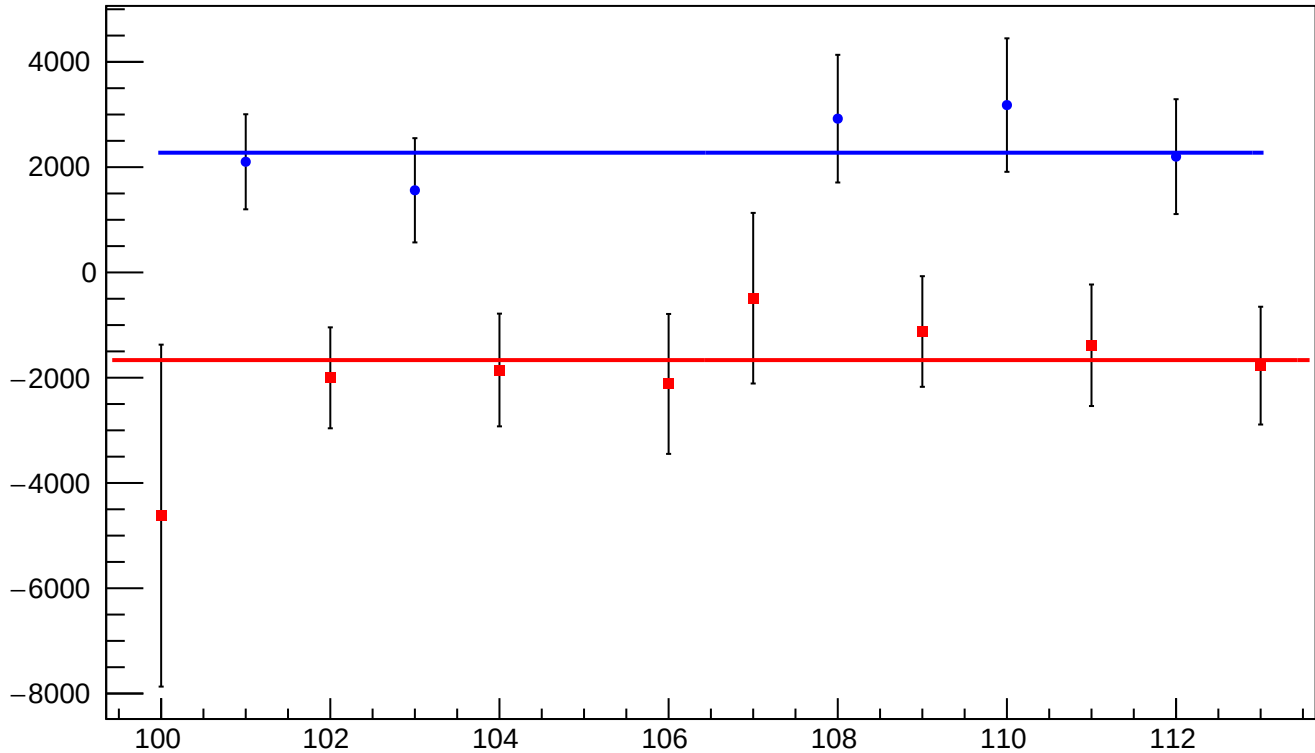


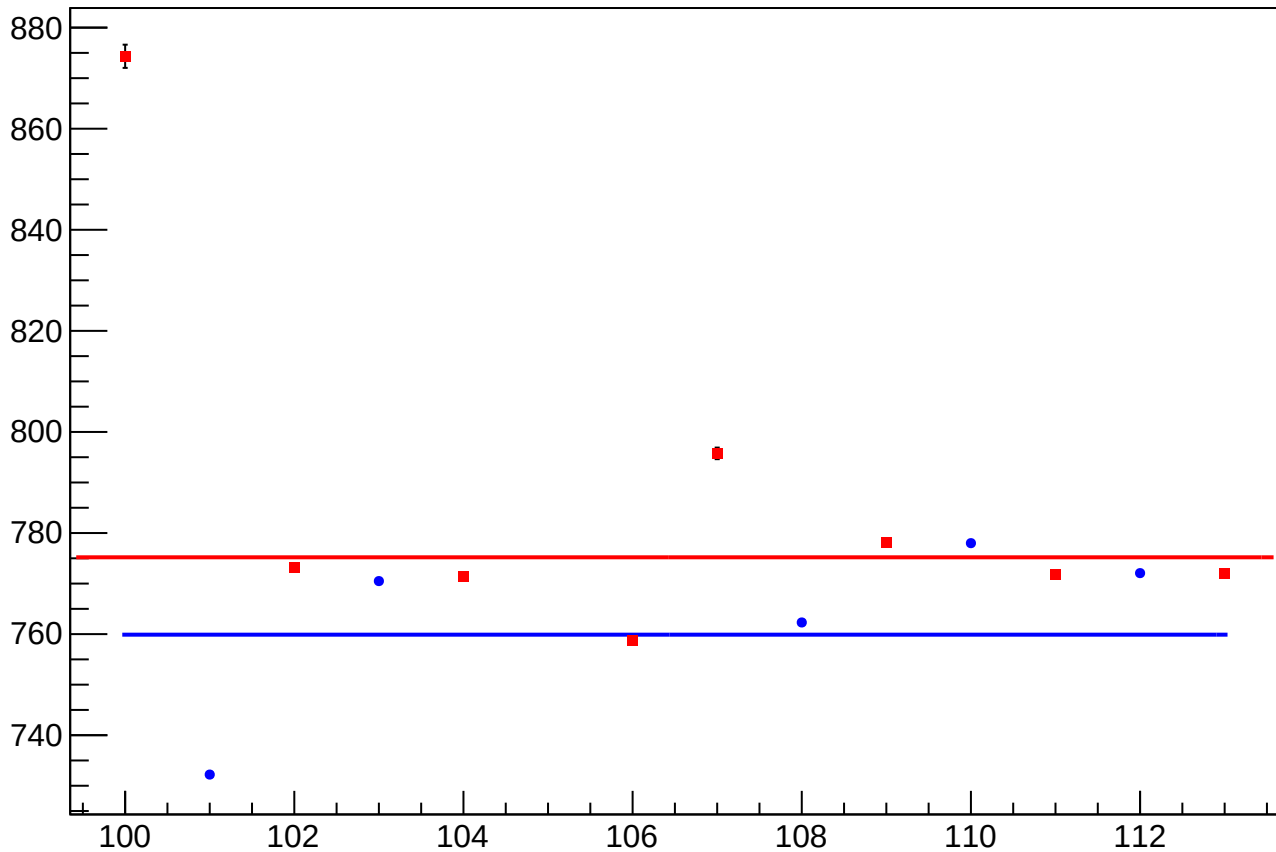
# reg\_asym\_us\_avg\_mean vs Slug



Right In: 2274.620 $\pm$ 477.382  $\chi^2$ /NDF: 1.4/4  
Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Right Out: -1665.455 $\pm$ 428.150  $\chi^2$ /NDF: 2.0/7  
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
All: 91.001 $\pm$ 318.737  $\chi^2$ /NDF: 41.1/12  
- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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



Right In: 759.890 $\pm$ 0.338  $\chi^2$ /NDF: 2773.7/4

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

Right Out: 775.199 $\pm$ 0.303  $\chi^2$ /NDF: 2569.7/7

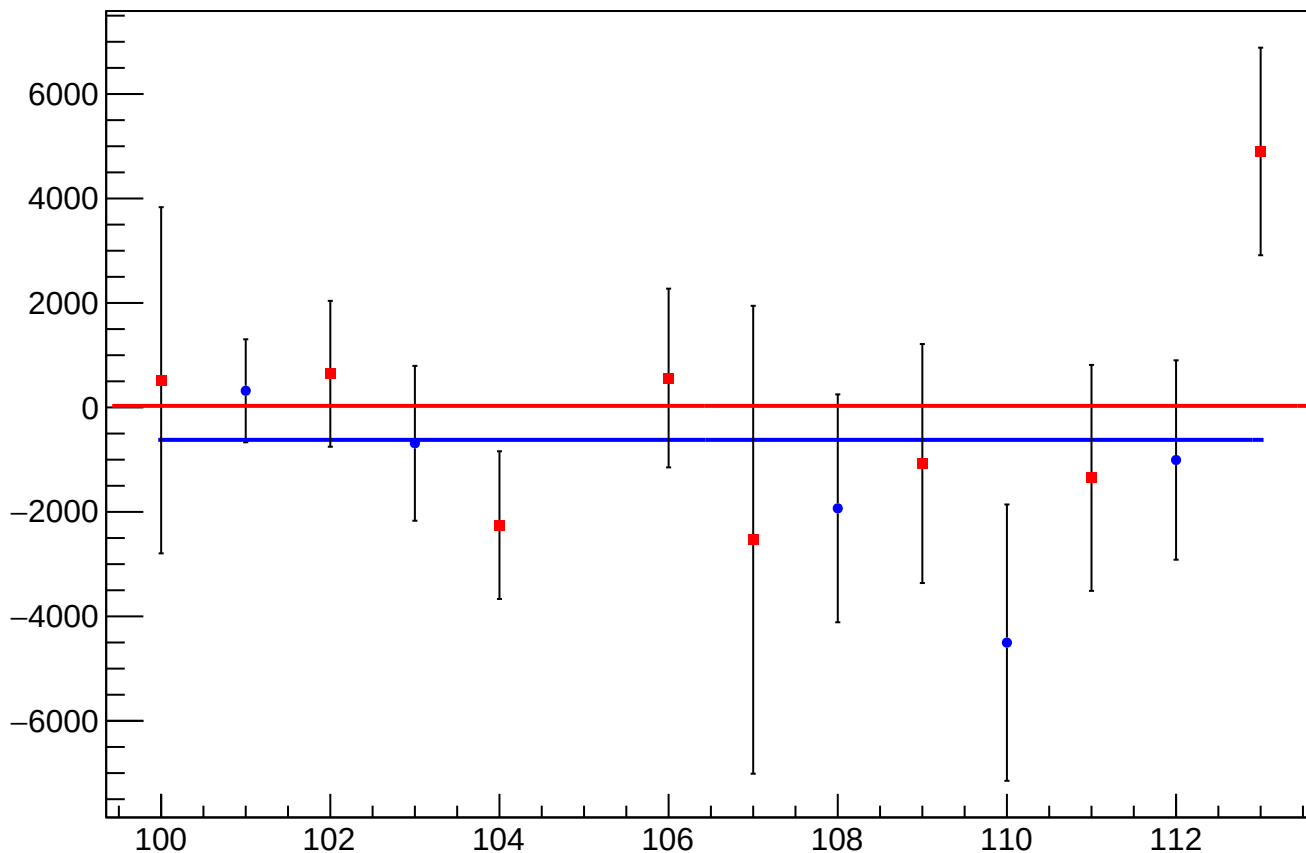
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 768.374 $\pm$ 0.225  $\chi^2$ /NDF: 6483.2/12

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

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



Right In: -620.630+/-688.206  $\chi^2/\text{NDF}$ : 3.5/4

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

Right Out: 30.058+/-681.361  $\chi^2/\text{NDF}$ : 9.9/7

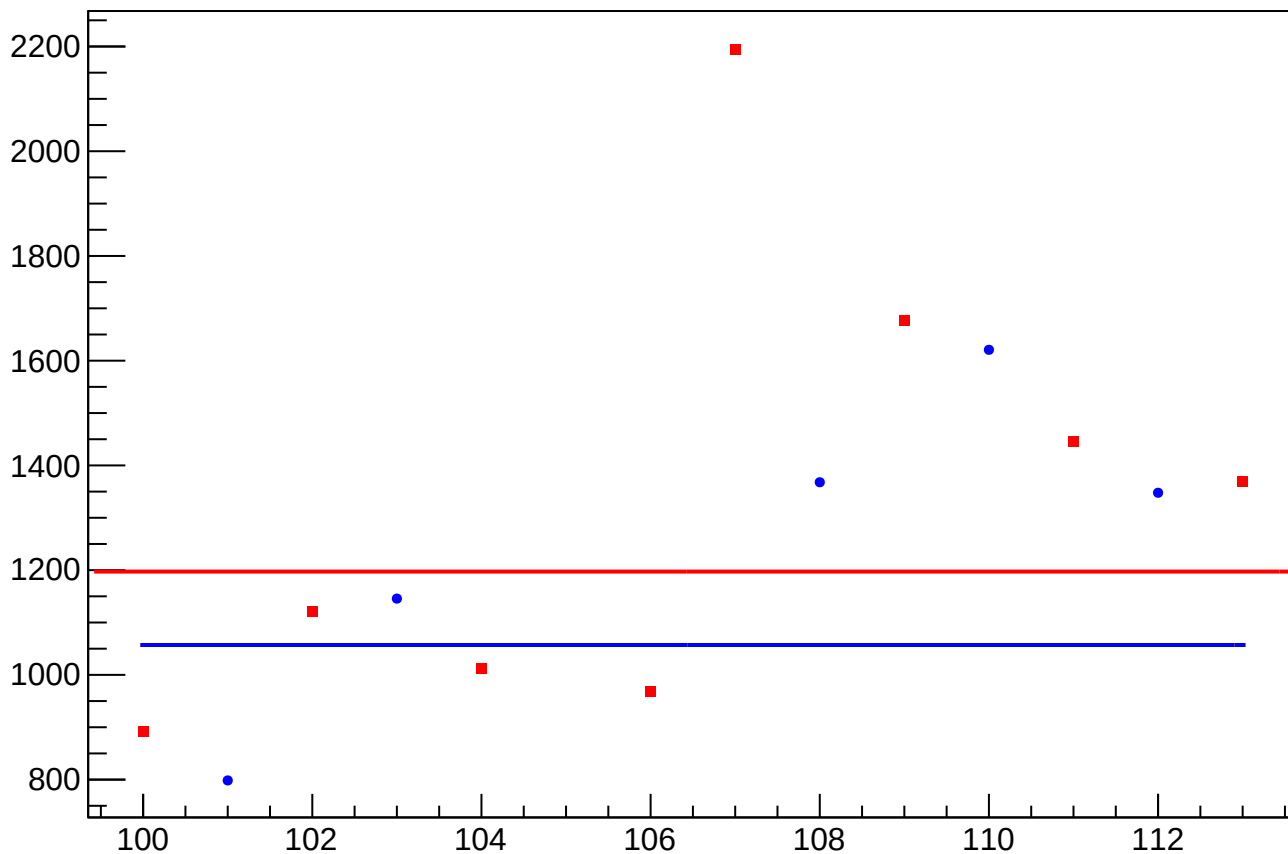
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -292.034+/-484.197  $\chi^2/\text{NDF}$ : 13.8/12

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

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



Right In: 1057.054+/-0.487  $\chi^2/\text{NDF}$ : 322601.6/4

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

Right Out: 1197.268+/-0.482  $\chi^2/\text{NDF}$ : 321478.0/7

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

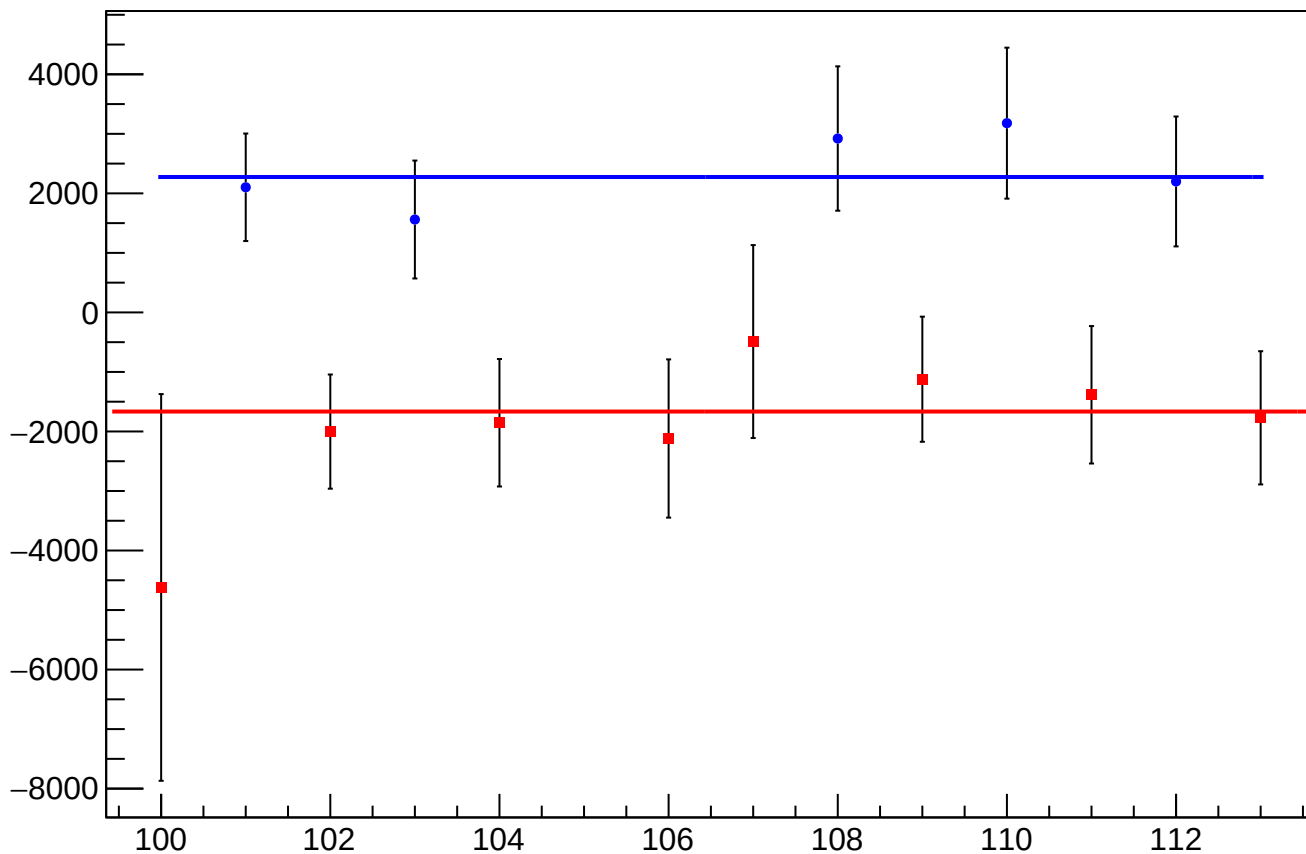
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1127.862+/-0.342  $\chi^2/\text{NDF}$ : 686003.7/12

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



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



Right In: 2274.620 $\pm$ 477.382  $\chi^2$ /NDF: 1.4/4

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

Right Out: -1665.455 $\pm$ 428.150  $\chi^2$ /NDF: 2.0/7

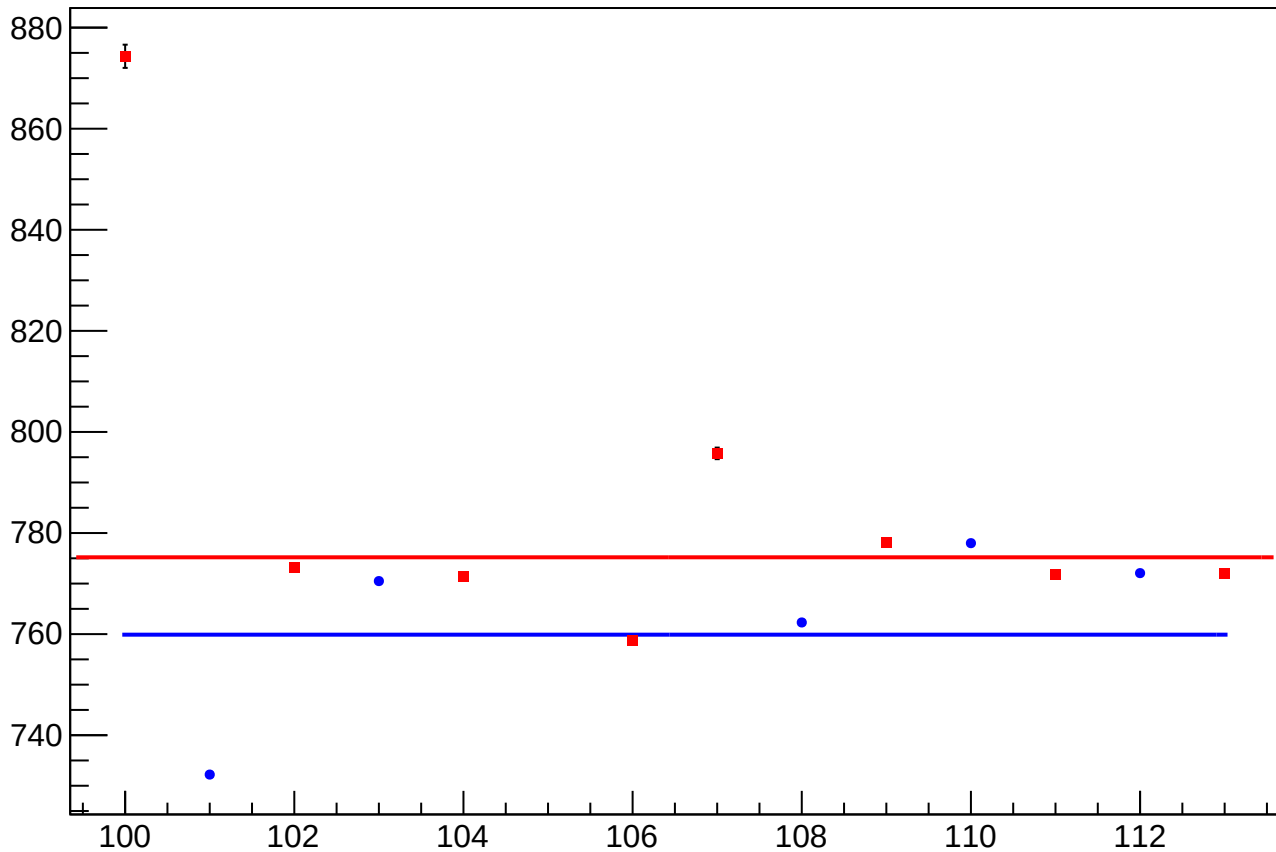
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 91.001 $\pm$ 318.737  $\chi^2$ /NDF: 41.1/12

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

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



Right In: 759.890 $\pm$ 0.338  $\chi^2$ /NDF: 2773.7/4

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

Right Out: 775.199 $\pm$ 0.303  $\chi^2$ /NDF: 2569.7/7

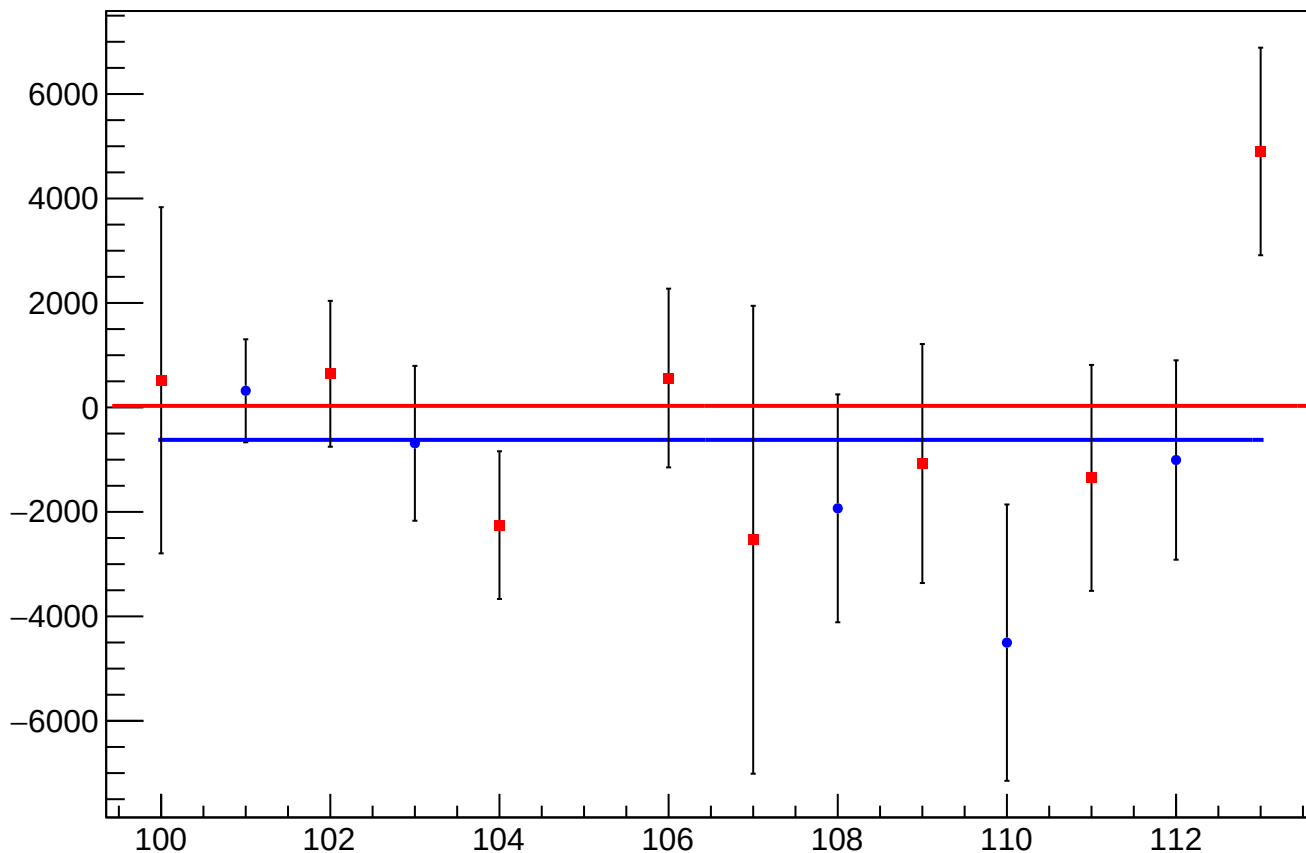
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 768.374 $\pm$ 0.225  $\chi^2$ /NDF: 6483.2/12

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

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



Right In: -620.630+/-688.206  $\chi^2/\text{NDF}$ : 3.5/4

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

Right Out: 30.058+/-681.361  $\chi^2/\text{NDF}$ : 9.9/7

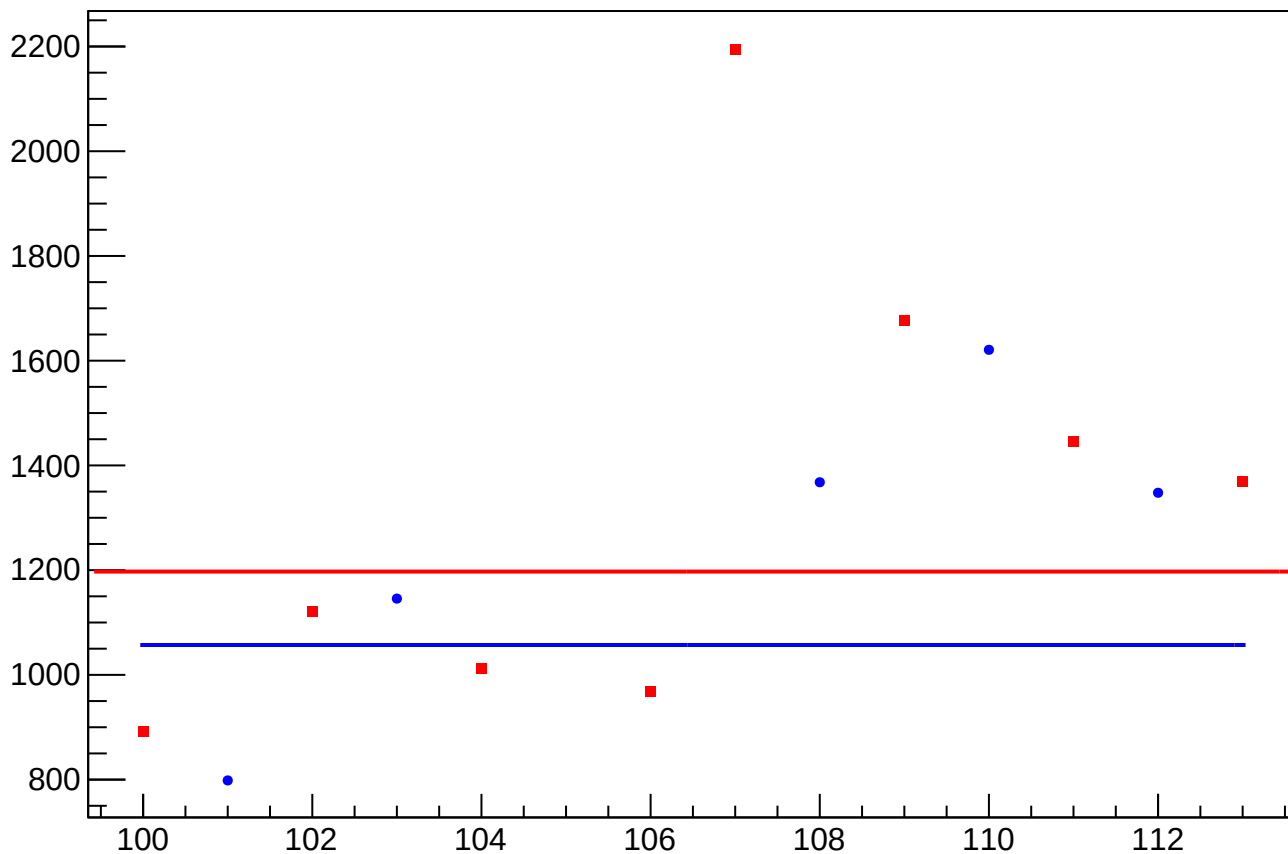
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -292.034+/-484.197  $\chi^2/\text{NDF}$ : 13.8/12

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

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



Right In: 1057.054 $\pm$ 0.487  $\chi^2$ /NDF: 322601.6/4

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

Right Out: 1197.268 $\pm$ 0.482  $\chi^2$ /NDF: 321478.0/7

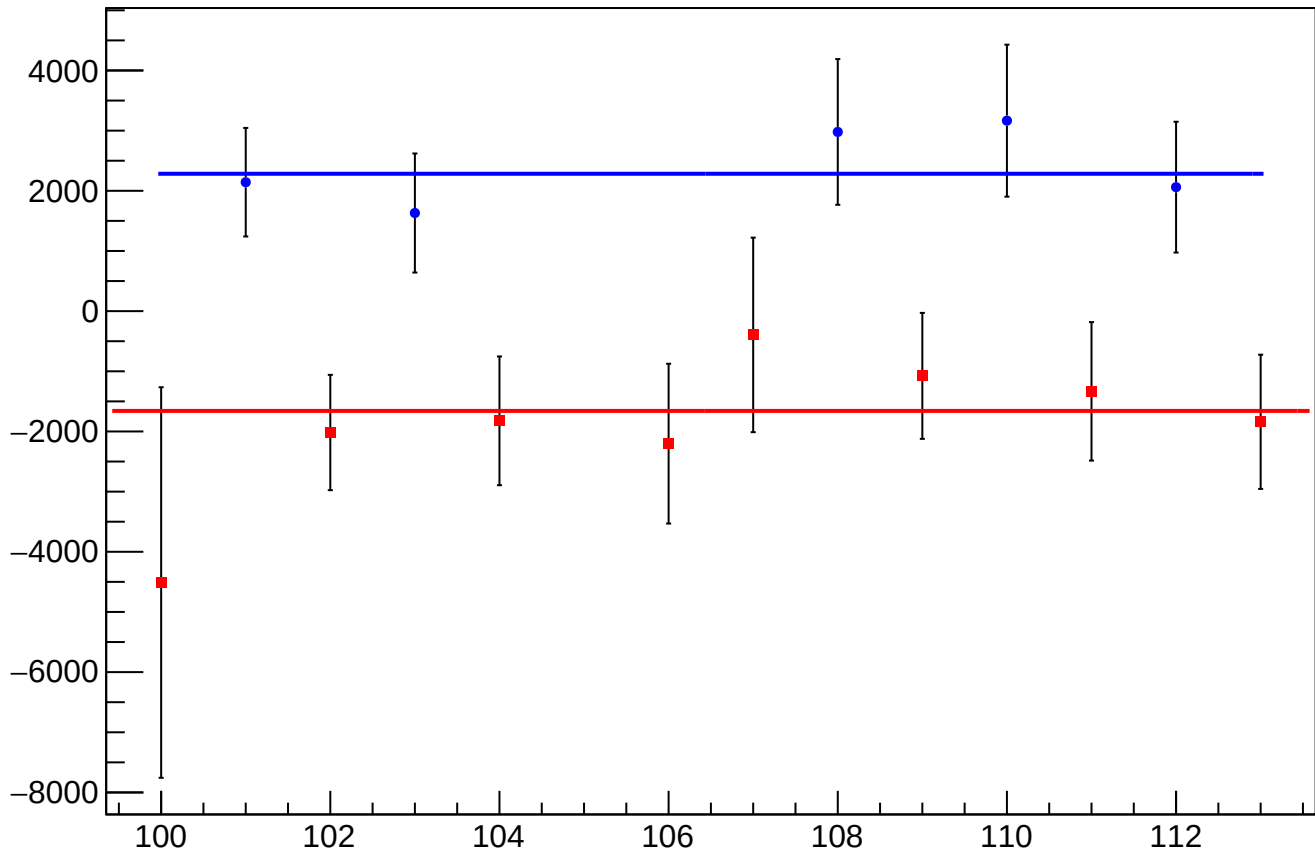
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1127.862 $\pm$ 0.342  $\chi^2$ /NDF: 686003.7/12

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

# overload\_cor\_asym\_us\_avg\_mean vs Slug



Right In: 2283.299 $\pm$ 476.451  $\chi^2$ /NDF: 1.3/4

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

Right Out: -1658.327 $\pm$ 427.257  $\chi^2$ /NDF: 2.1/7

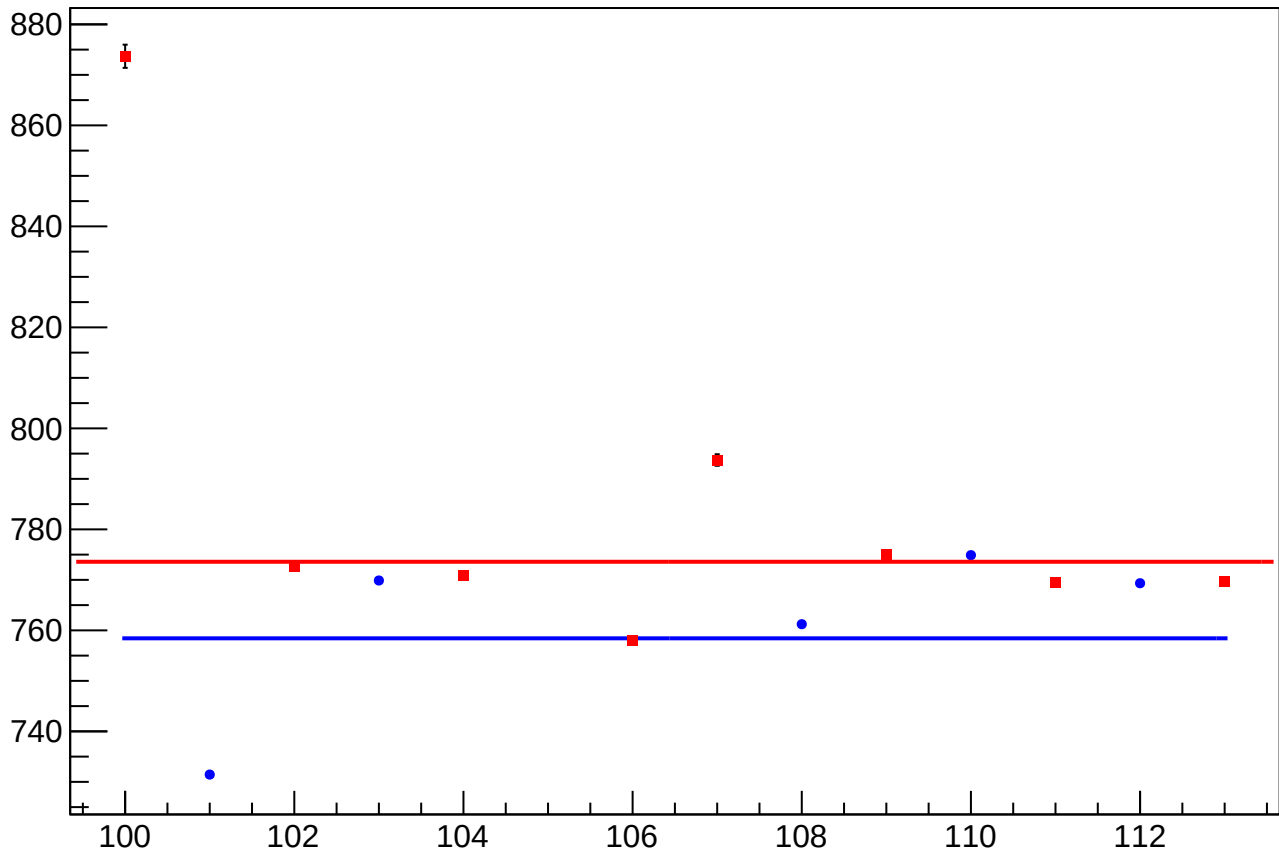
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 98.554 $\pm$ 318.091  $\chi^2$ /NDF: 41.4/12

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

# overload\_cor\_asym\_us\_avg\_rms vs Slug



Right In: 758.424 $\pm$ 0.337  $\chi^2$ /NDF: 2609.5/4

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

Right Out: 773.584 $\pm$ 0.302  $\chi^2$ /NDF: 2553.7/7

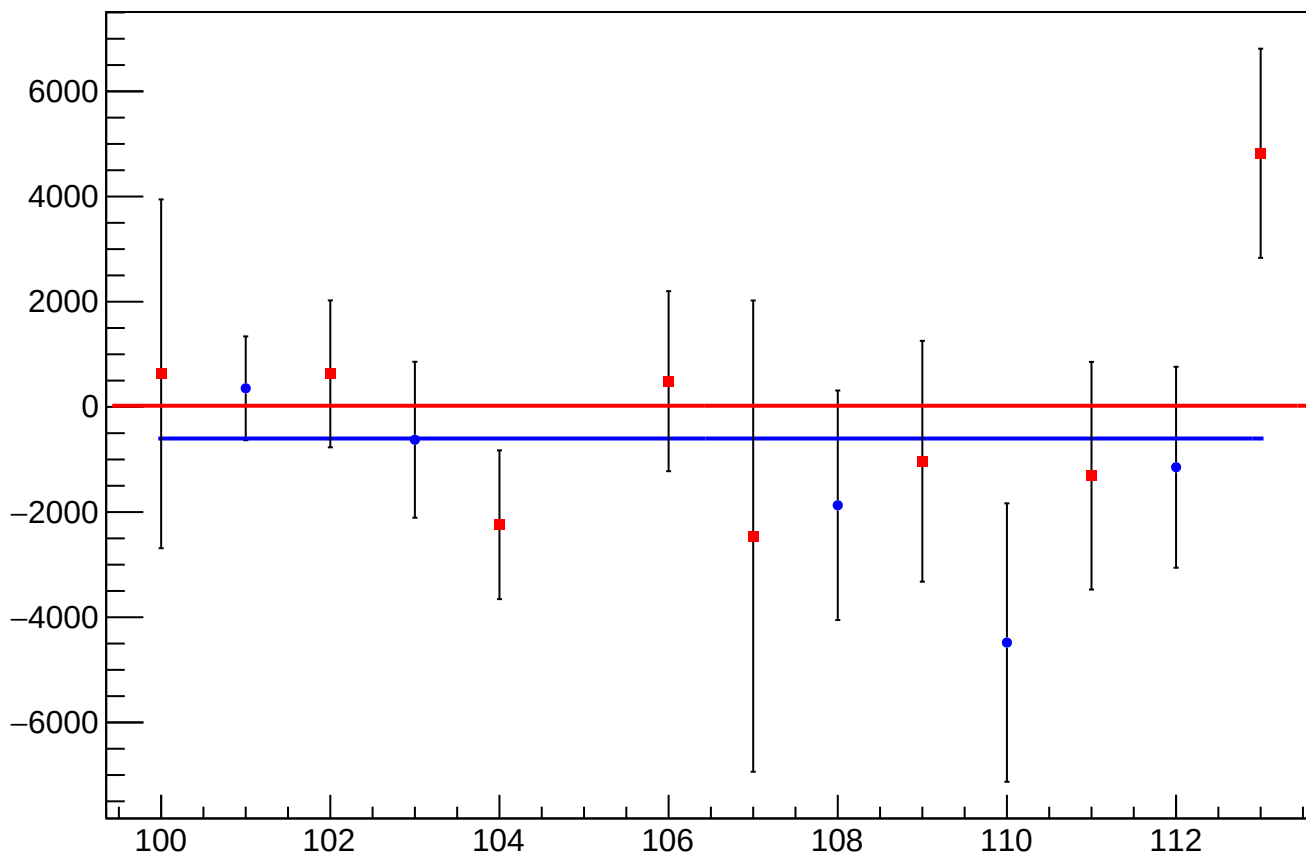
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 766.827 $\pm$ 0.225  $\chi^2$ /NDF: 6285.6/12

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

asym\_us\_avg\_overload\_cor\_correction\_mean vs Slug



Right In: -601.204+/-688.736  $\chi^2/\text{NDF}$ : 3.5/4

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

Right Out: 21.560+/-681.758  $\chi^2/\text{NDF}$ : 9.6/7

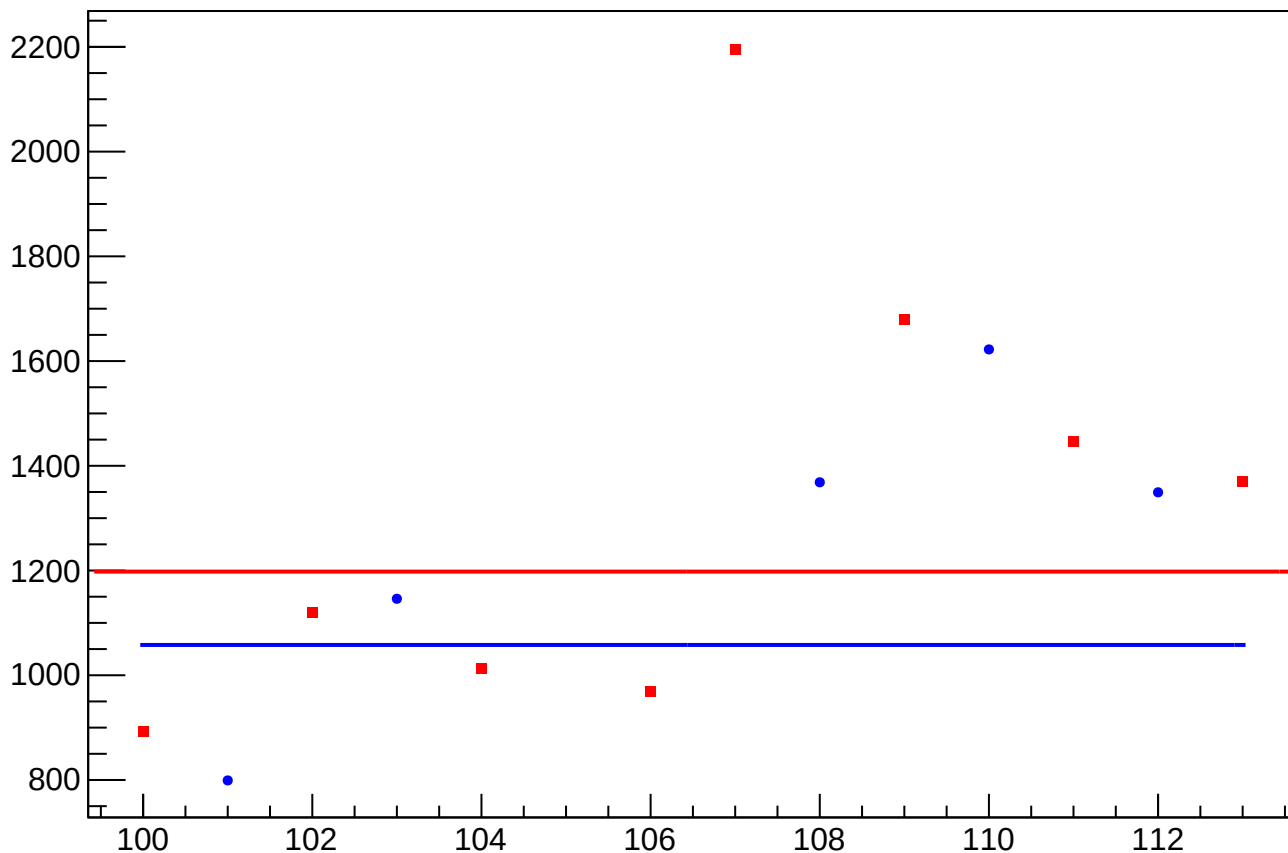
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -286.652+/-484.524  $\chi^2/\text{NDF}$ : 13.5/12

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

asym\_us\_avg\_overload\_cor\_correction\_rms vs Slug



Right In: 1057.884 $\pm$ 0.487  $\chi^2$ /NDF: 322490.0/4

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

Right Out: 1197.944 $\pm$ 0.482  $\chi^2$ /NDF: 321757.8/7

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

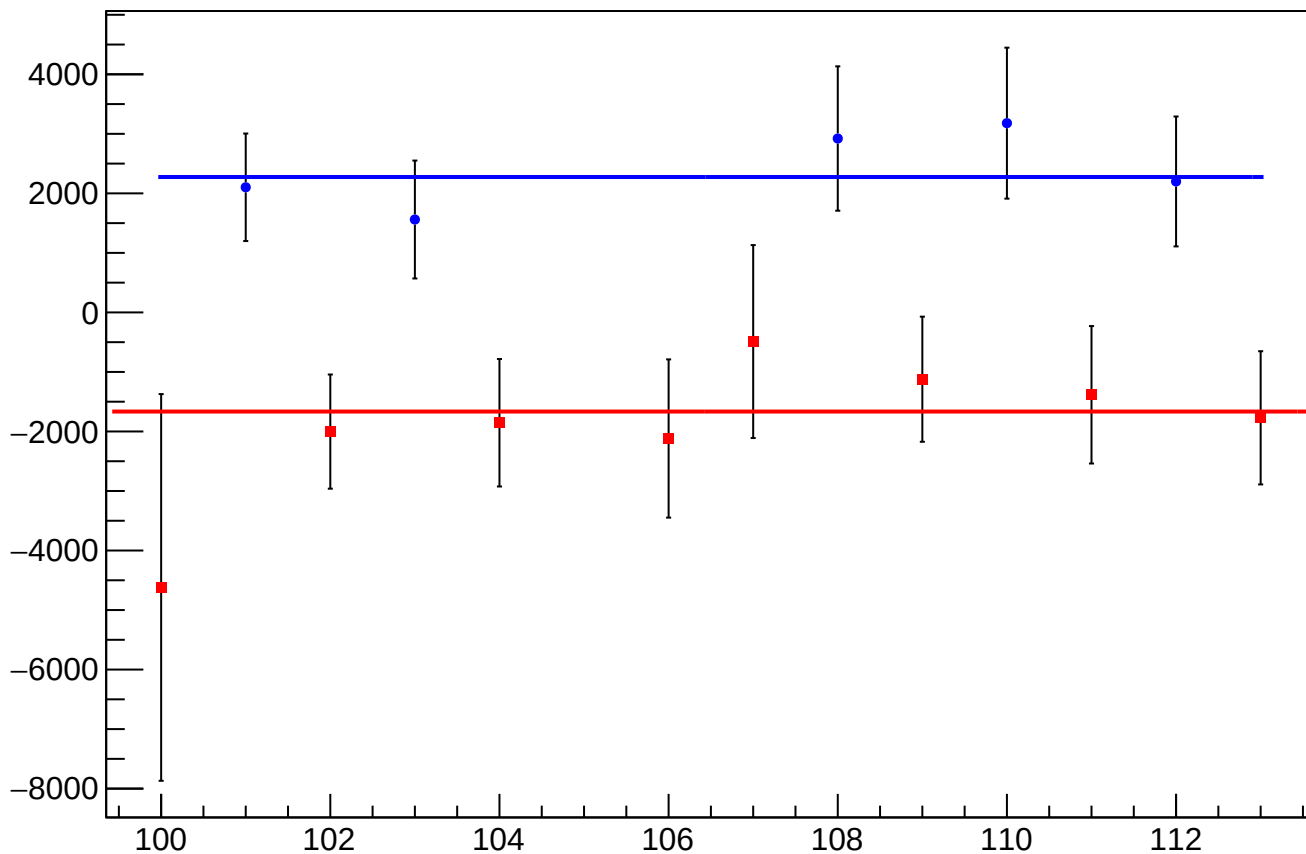
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1128.627 $\pm$ 0.343  $\chi^2$ /NDF: 686023.3/12

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



# eigen\_cor\_asym\_us\_avg\_mean vs Slug



Right In: 2274.620 $\pm$ 477.382  $\chi^2$ /NDF: 1.4/4

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

Right Out: -1665.455 $\pm$ 428.150  $\chi^2$ /NDF: 2.0/7

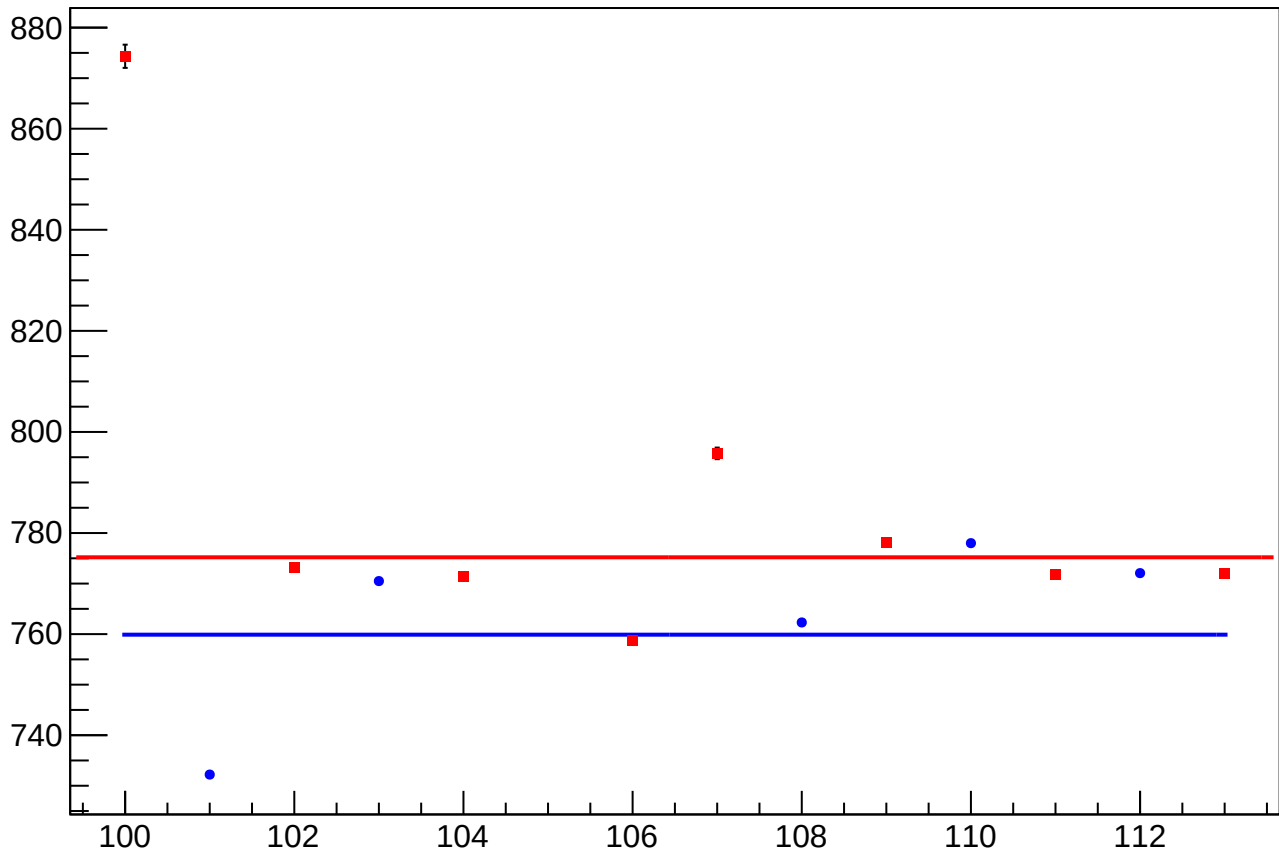
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 91.001 $\pm$ 318.737  $\chi^2$ /NDF: 41.1/12

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

# eigen\_cor\_asym\_us\_avg\_rms vs Slug



Right In: 759.890 $\pm$ 0.338  $\chi^2$ /NDF: 2773.7/4

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

Right Out: 775.199 $\pm$ 0.303  $\chi^2$ /NDF: 2569.7/7

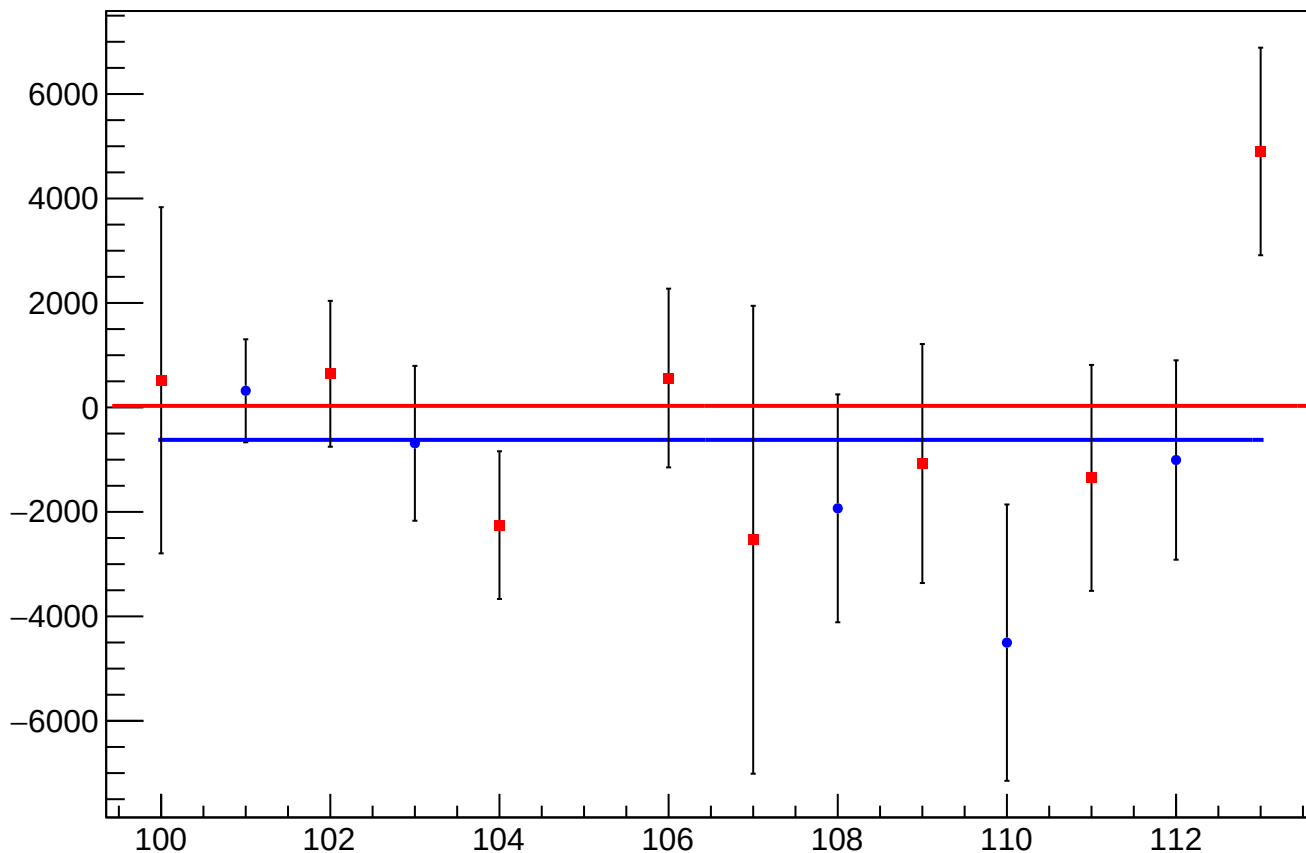
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 768.374 $\pm$ 0.225  $\chi^2$ /NDF: 6483.2/12

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

asym\_us\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -620.630+/-688.206  $\chi^2/\text{NDF}$ : 3.5/4

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

Right Out: 30.058+/-681.361  $\chi^2/\text{NDF}$ : 9.9/7

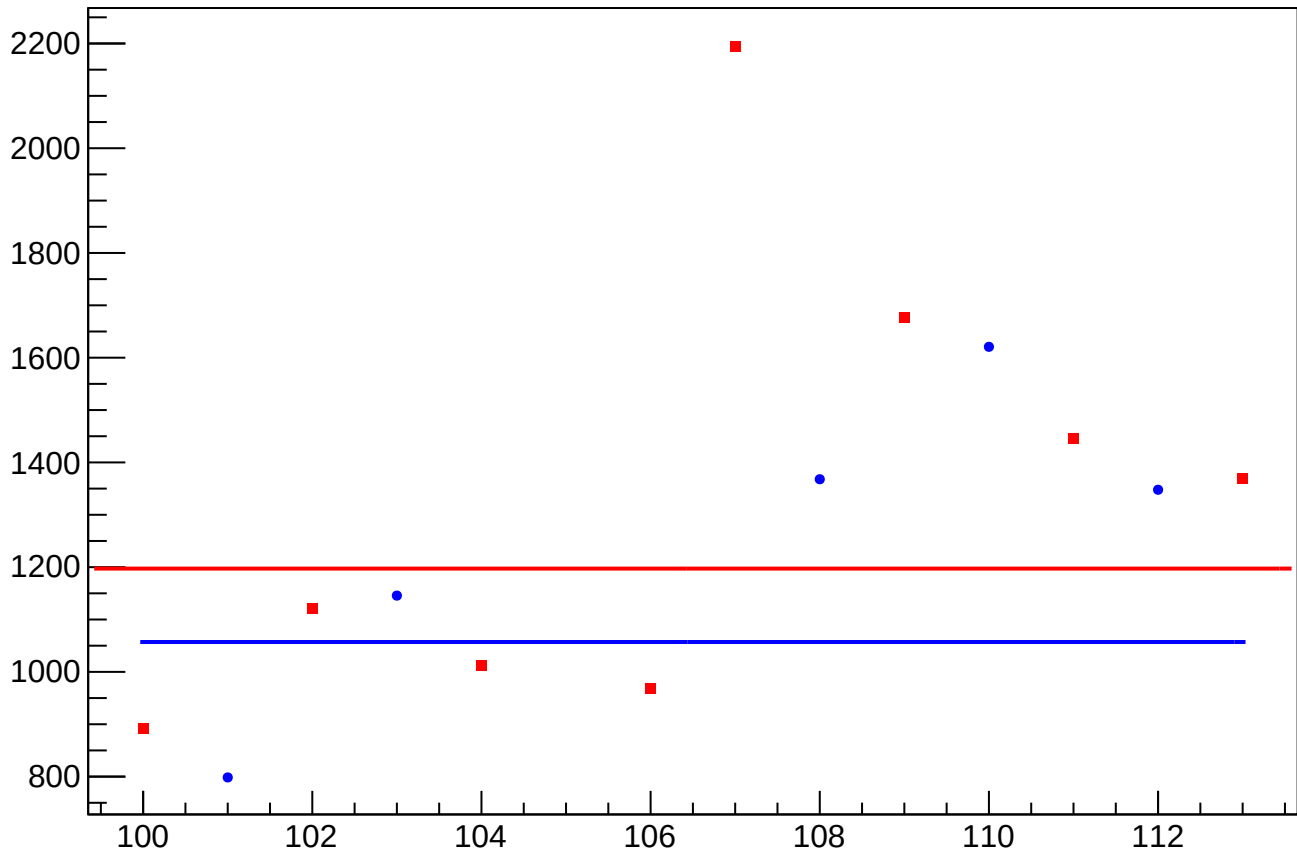
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -292.034+/-484.197  $\chi^2/\text{NDF}$ : 13.8/12

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

asym\_us\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1057.054+/-0.487  $\chi^2/\text{NDF}$ : 322601.6/4

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

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

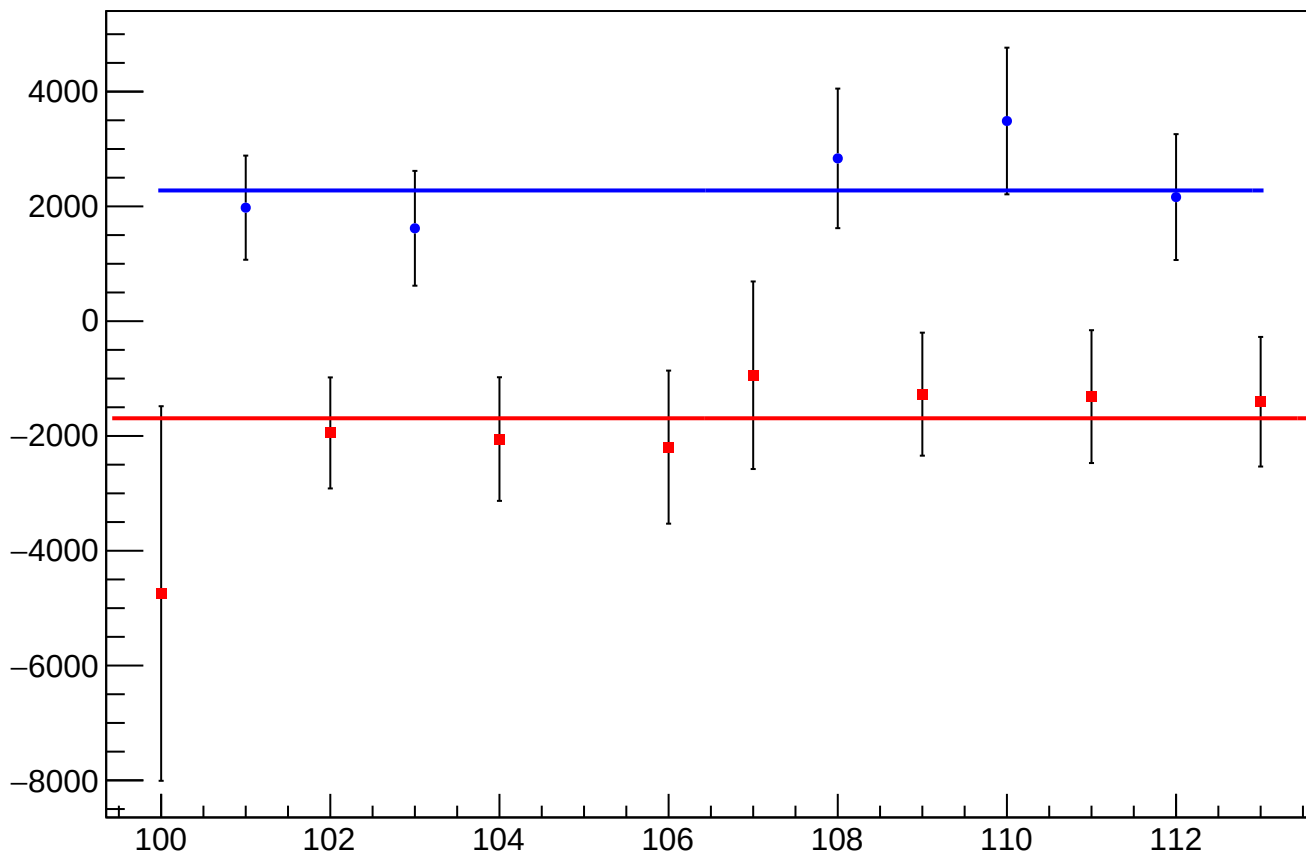
Right Out: 1197.268+/-0.482  $\chi^2/\text{NDF}$ : 321478.0/7

All: 1127.862+/-0.342  $\chi^2/\text{NDF}$ : 686003.7/12

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

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

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



Right In: 2277.546 $\pm$ 480.281  $\chi^2$ /NDF: 1.7/4

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

Right Out: -1691.766 $\pm$ 431.804  $\chi^2$ /NDF: 1.7/7

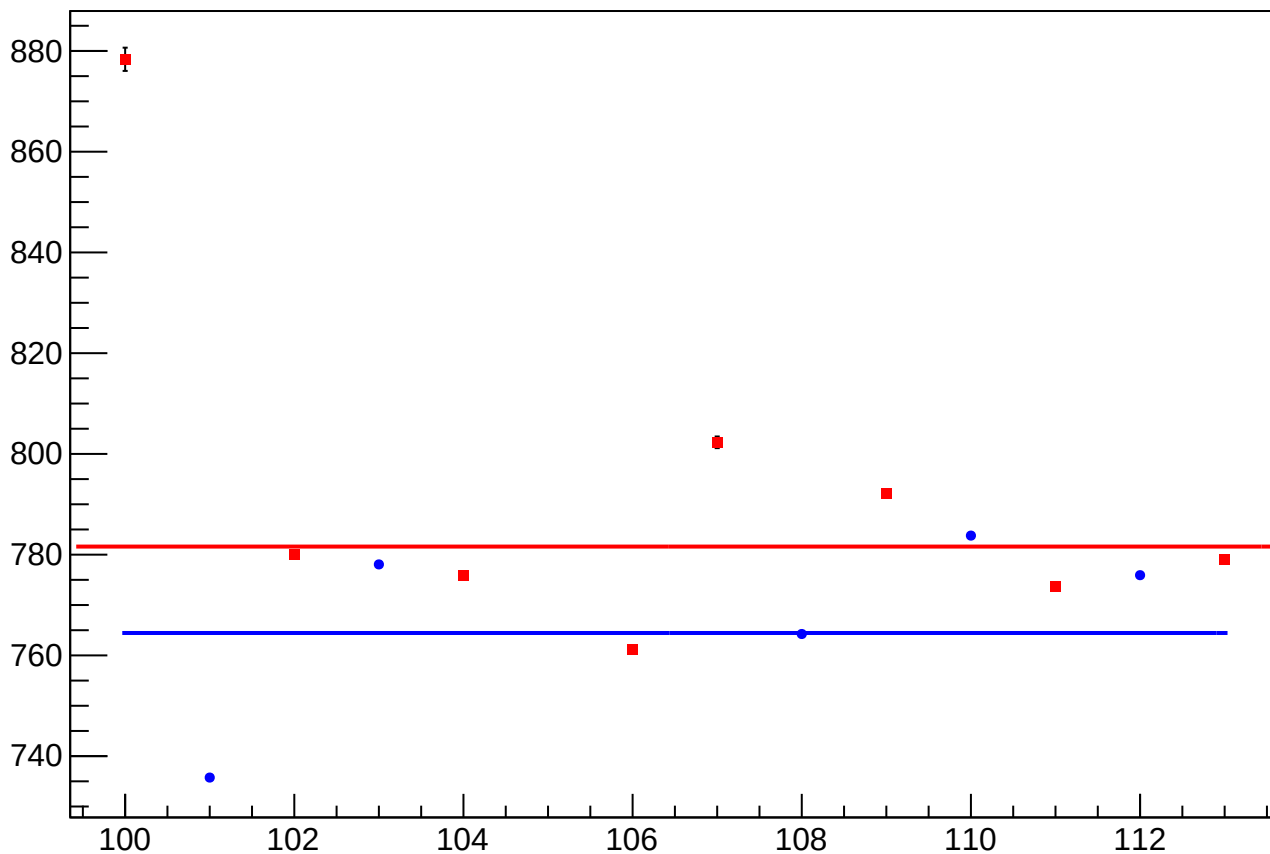
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 82.516 $\pm$ 321.107  $\chi^2$ /NDF: 41.2/12

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

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



Right In: 764.450+/-0.340  $\chi^2/\text{NDF}$ : 3049.3/4

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

Right Out: 781.606+/-0.305  $\chi^2/\text{NDF}$ : 2907.3/7

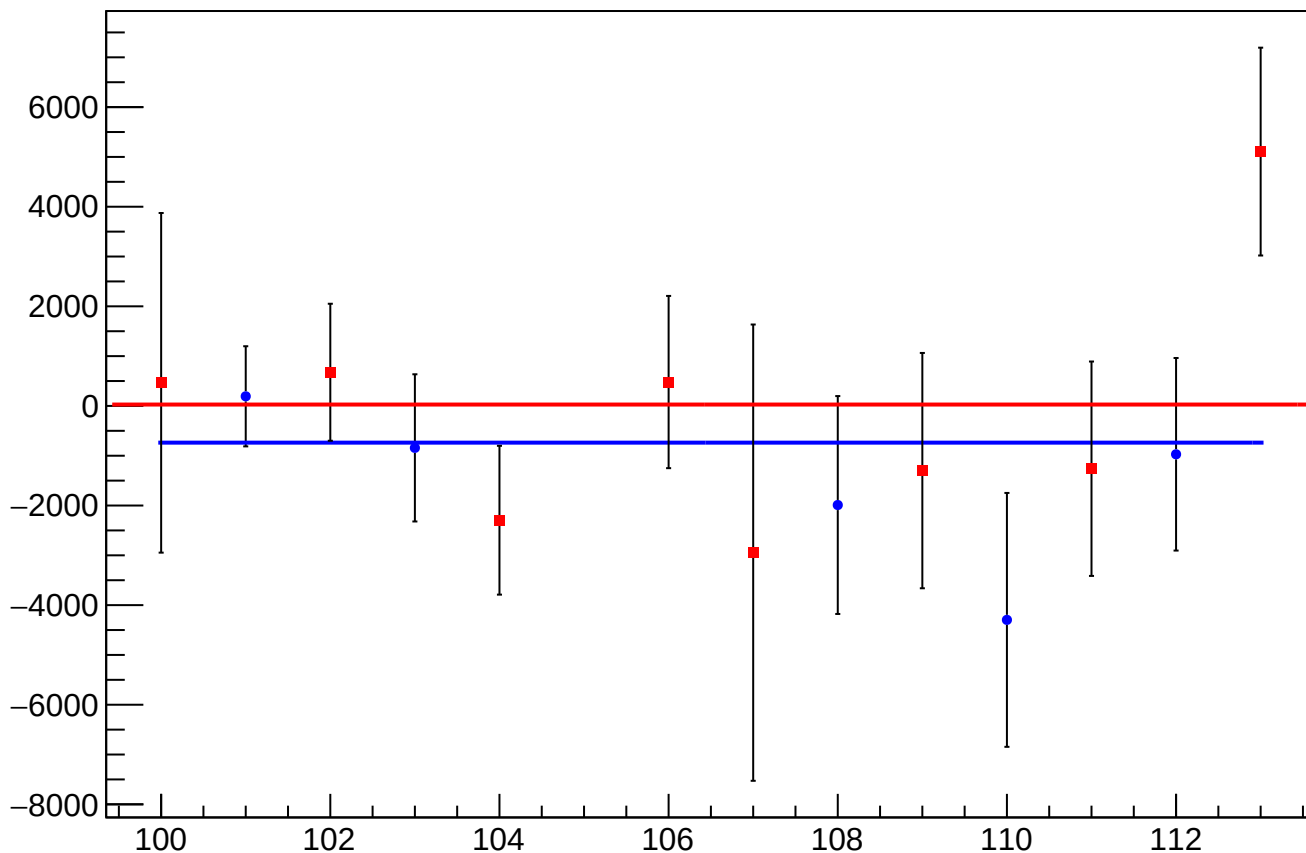
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 773.937+/-0.227  $\chi^2/\text{NDF}$ : 7367.8/12

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

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



Right In: -737.220+/-693.814  $\chi^2/\text{NDF}$ : 3.2/4

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

Right Out: 27.699+/-695.170  $\chi^2/\text{NDF}$ : 9.7/7

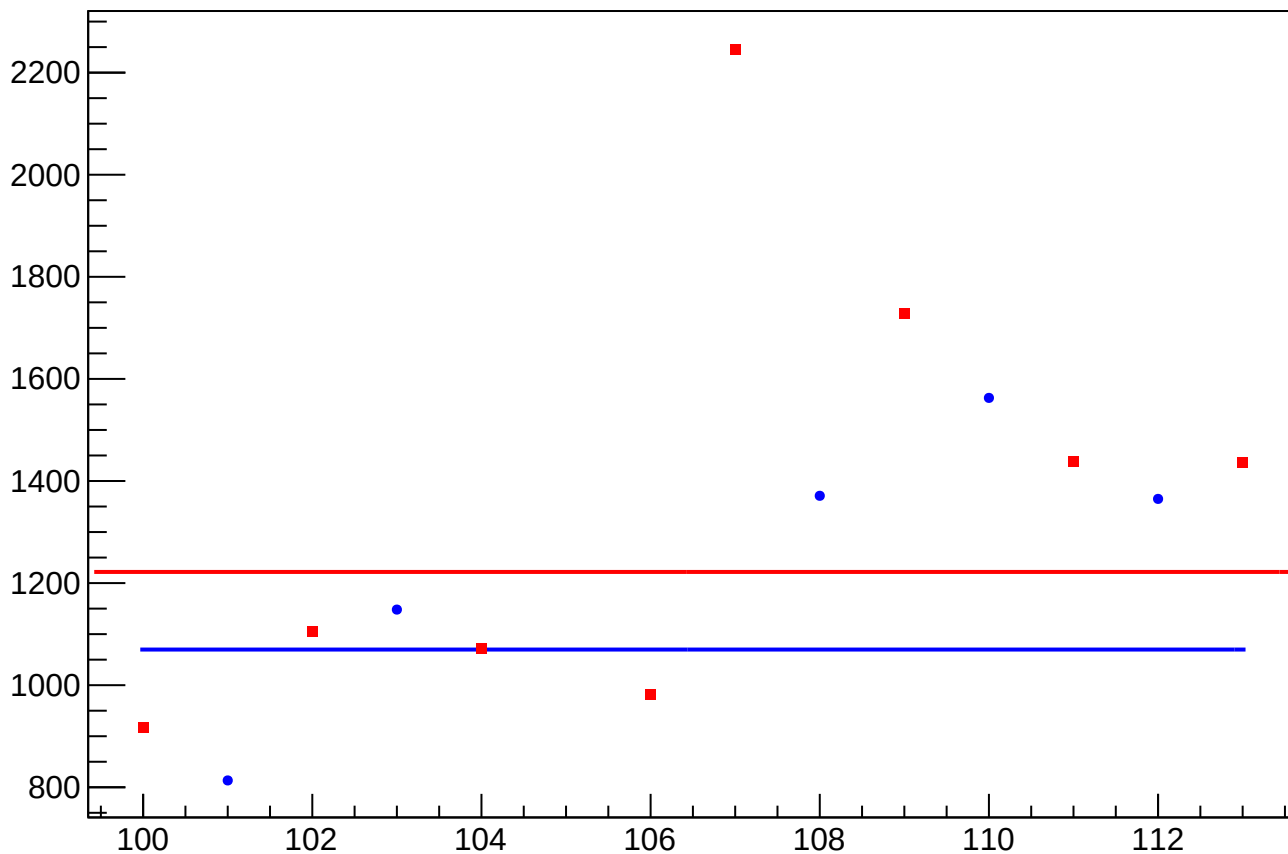
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -355.507+/-491.079  $\chi^2/\text{NDF}$ : 13.5/12

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

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



Right In: 1069.808 $\pm$ 0.491  $\chi^2$ /NDF: 294996.0/4

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

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

Right Out: 1221.851 $\pm$ 0.492  $\chi^2$ /NDF: 322098.5/7

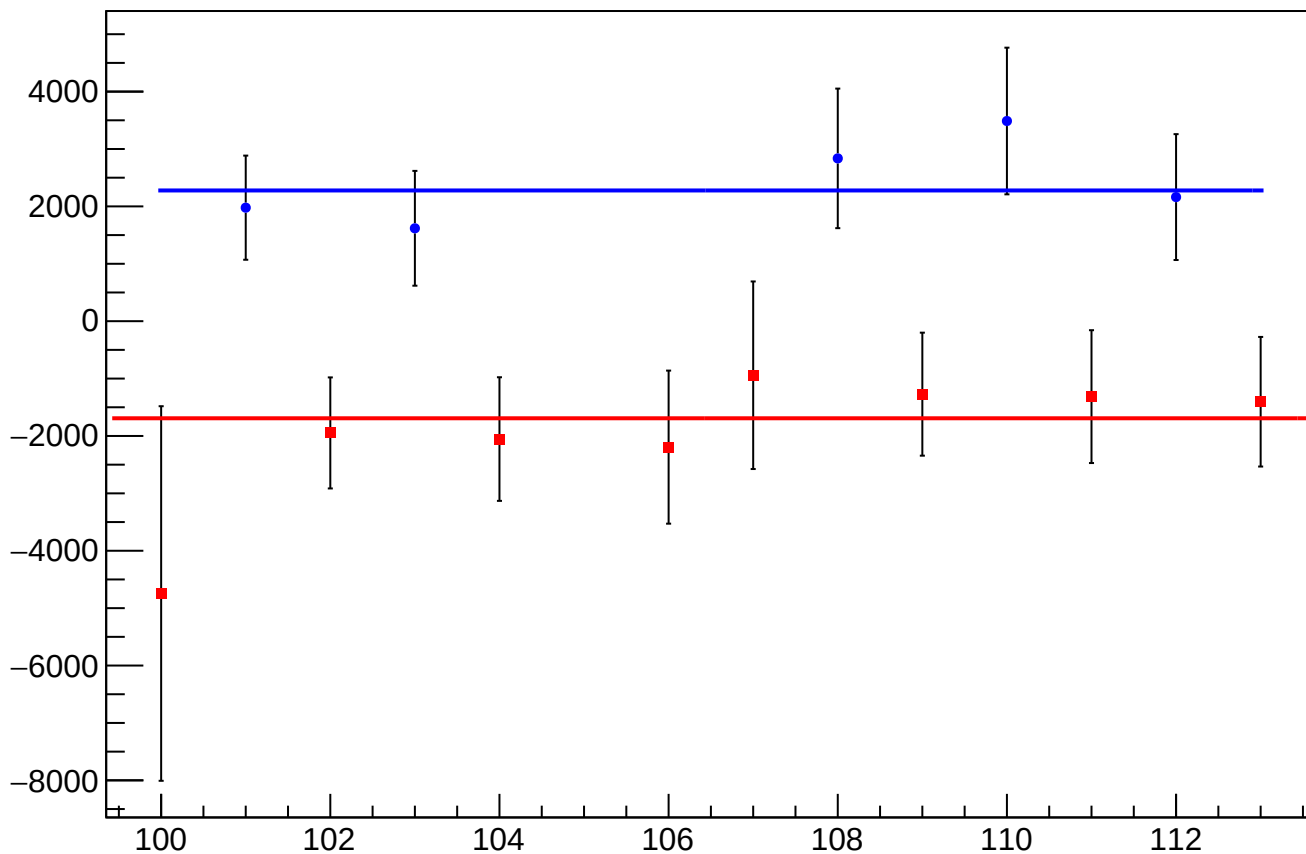
All: 1145.681 $\pm$ 0.347  $\chi^2$ /NDF: 665023.7/12

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

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



# eigen\_dit\_asym\_us\_avg\_mean vs Slug



Right In: 2277.548 $\pm$ 480.281  $\chi^2$ /NDF: 1.7/4

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

Right Out: -1691.765 $\pm$ 431.804  $\chi^2$ /NDF: 1.7/7

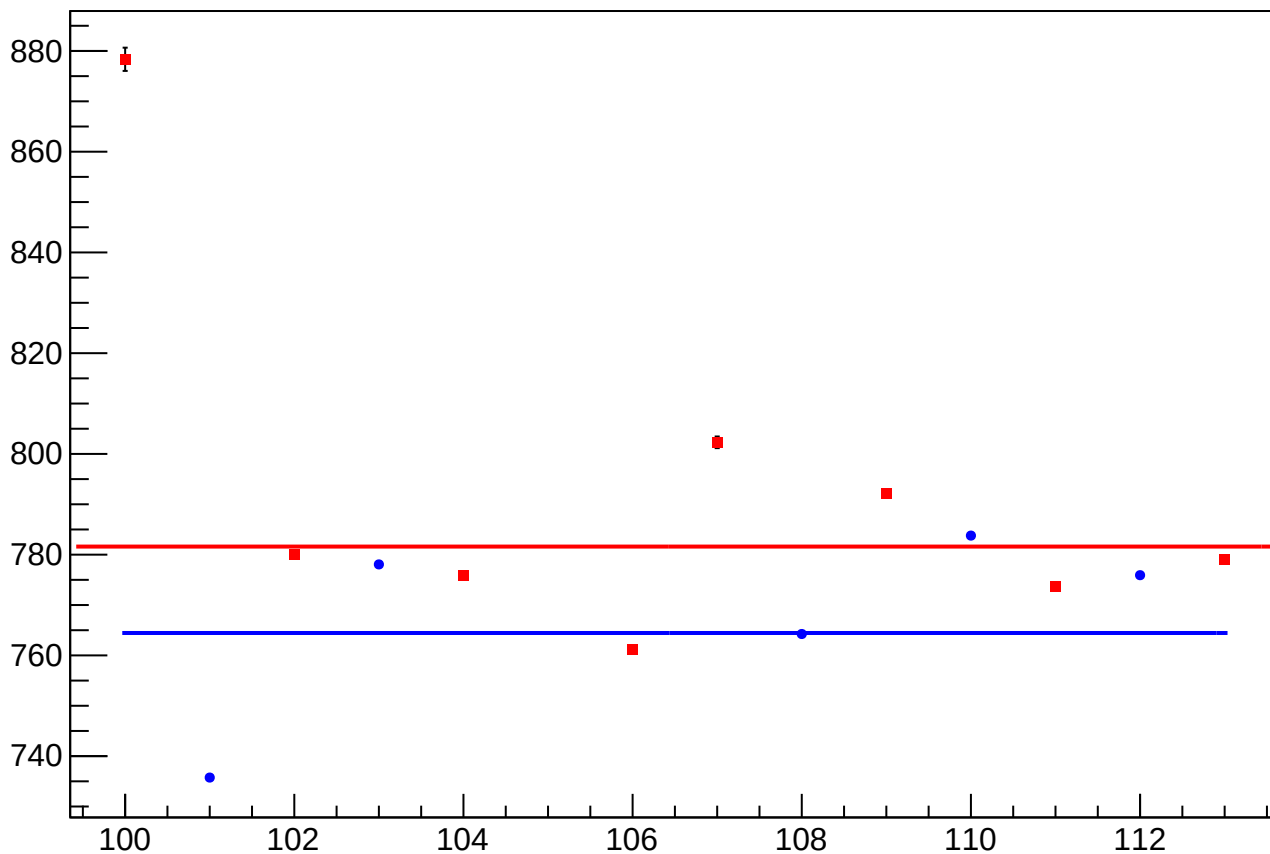
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 82.517 $\pm$ 321.107  $\chi^2$ /NDF: 41.2/12

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

# eigen\_dit\_asym\_us\_avg\_rms vs Slug



Right In: 764.450 $\pm$ 0.340  $\chi^2$ /NDF: 3049.3/4

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

Right Out: 781.606 $\pm$ 0.305  $\chi^2$ /NDF: 2907.3/7

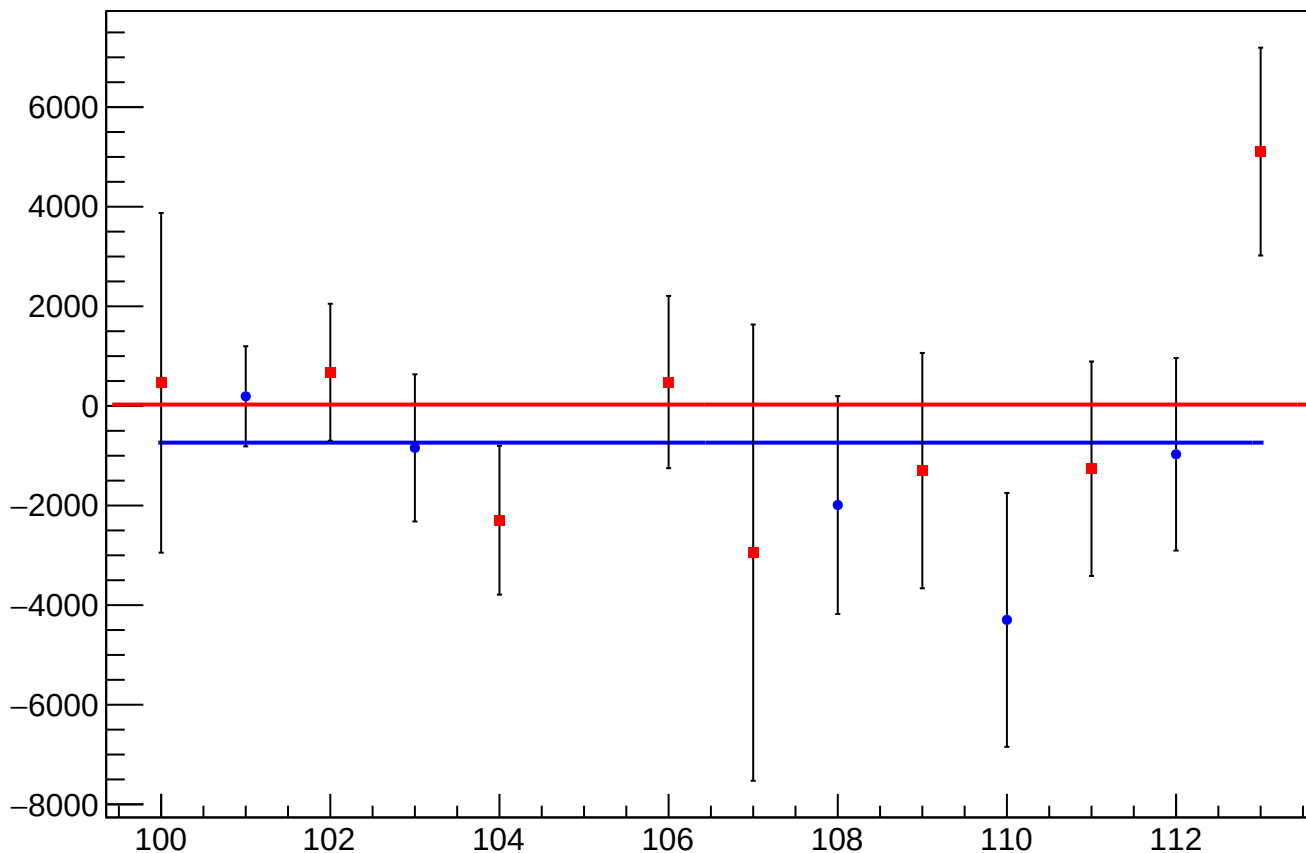
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 773.937 $\pm$ 0.227  $\chi^2$ /NDF: 7367.8/12

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

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



Right In: -737.220+/-693.813  $\chi^2/\text{NDF}$ : 3.2/4

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

Right Out: 27.700+/-695.168  $\chi^2/\text{NDF}$ : 9.7/7

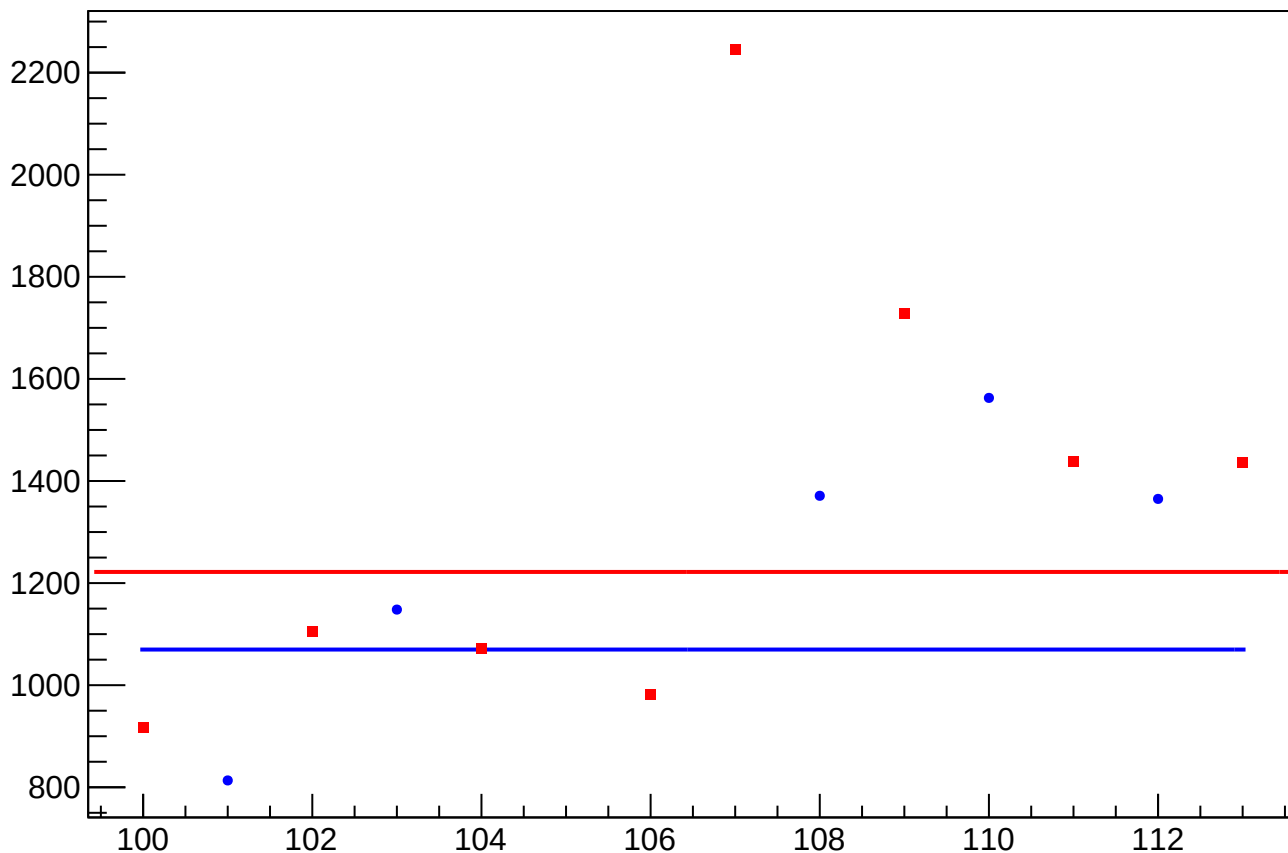
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -355.507+/-491.078  $\chi^2/\text{NDF}$ : 13.5/12

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

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



Right In: 1069.806+/-0.491  $\chi^2/\text{NDF}$ : 294994.4/4

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

Right Out: 1221.849+/-0.492  $\chi^2/\text{NDF}$ : 322096.5/7

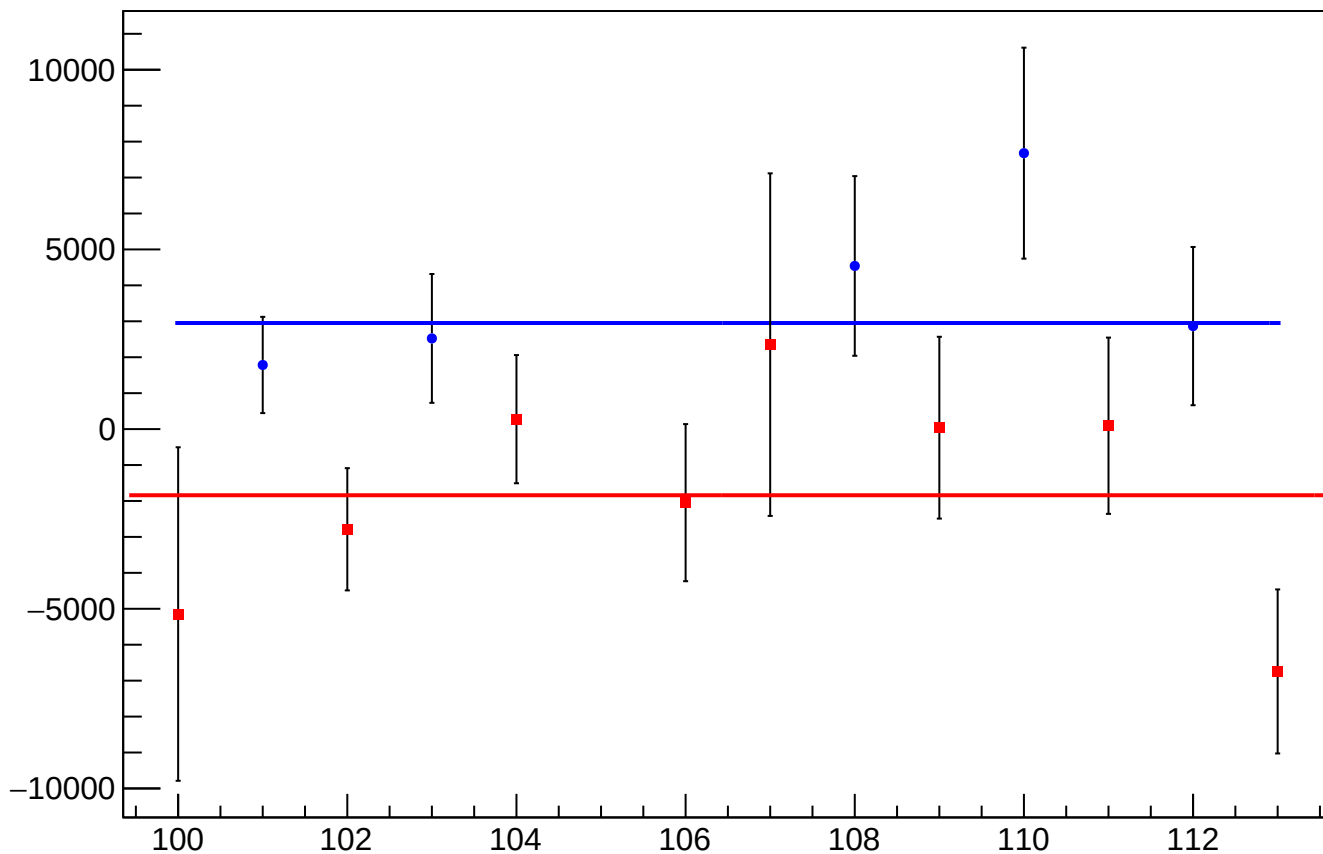
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1145.679+/-0.347  $\chi^2/\text{NDF}$ : 665019.8/12

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

# asym\_us\_avg\_mean vs Slug



Right In: 2952.469+/-860.326  $\chi^2/\text{NDF}$ : 3.8/4

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

Right Out: -1840.483+/-823.634  $\chi^2/\text{NDF}$ : 8.8/7

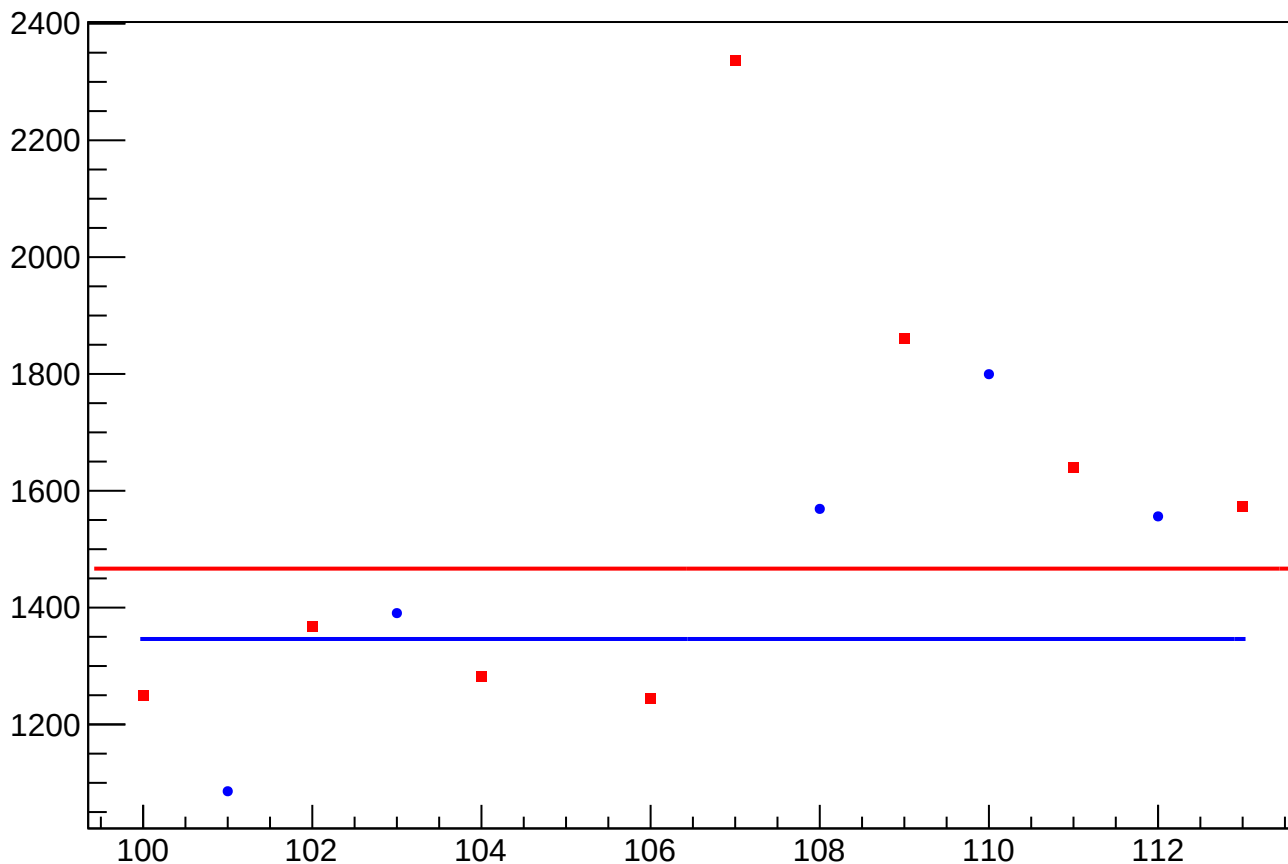
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 451.610+/-594.946  $\chi^2/\text{NDF}$ : 28.8/12

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

# asym\_us\_avg\_rms vs Slug



Right In: 1346.284+/-0.608  $\chi^2/\text{NDF}$ : 158722.1/4

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

Right Out: 1466.737+/-0.582  $\chi^2/\text{NDF}$ : 182624.0/7

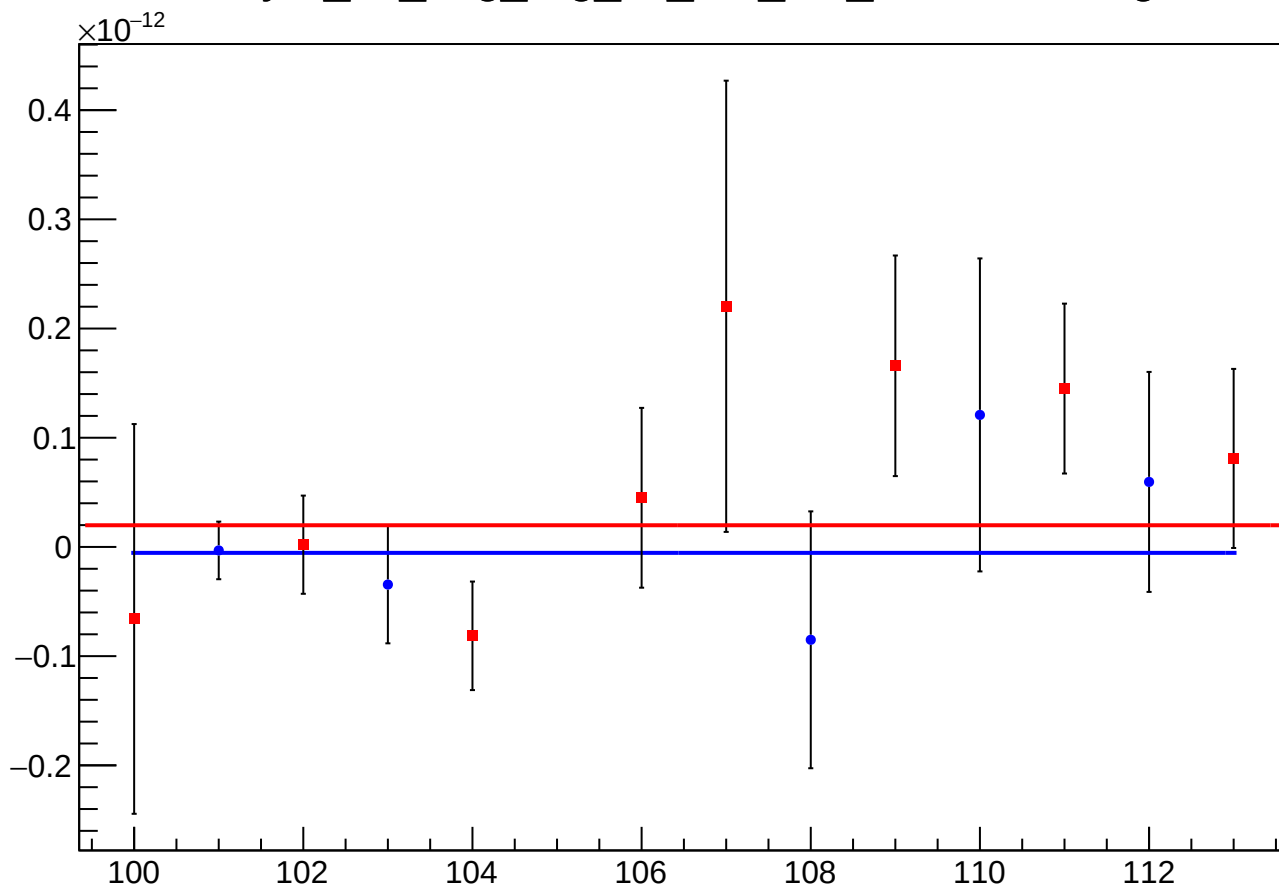
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1409.134+/-0.421  $\chi^2/\text{NDF}$ : 361802.3/12

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

# asym\_us\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.9/4

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

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.8/7

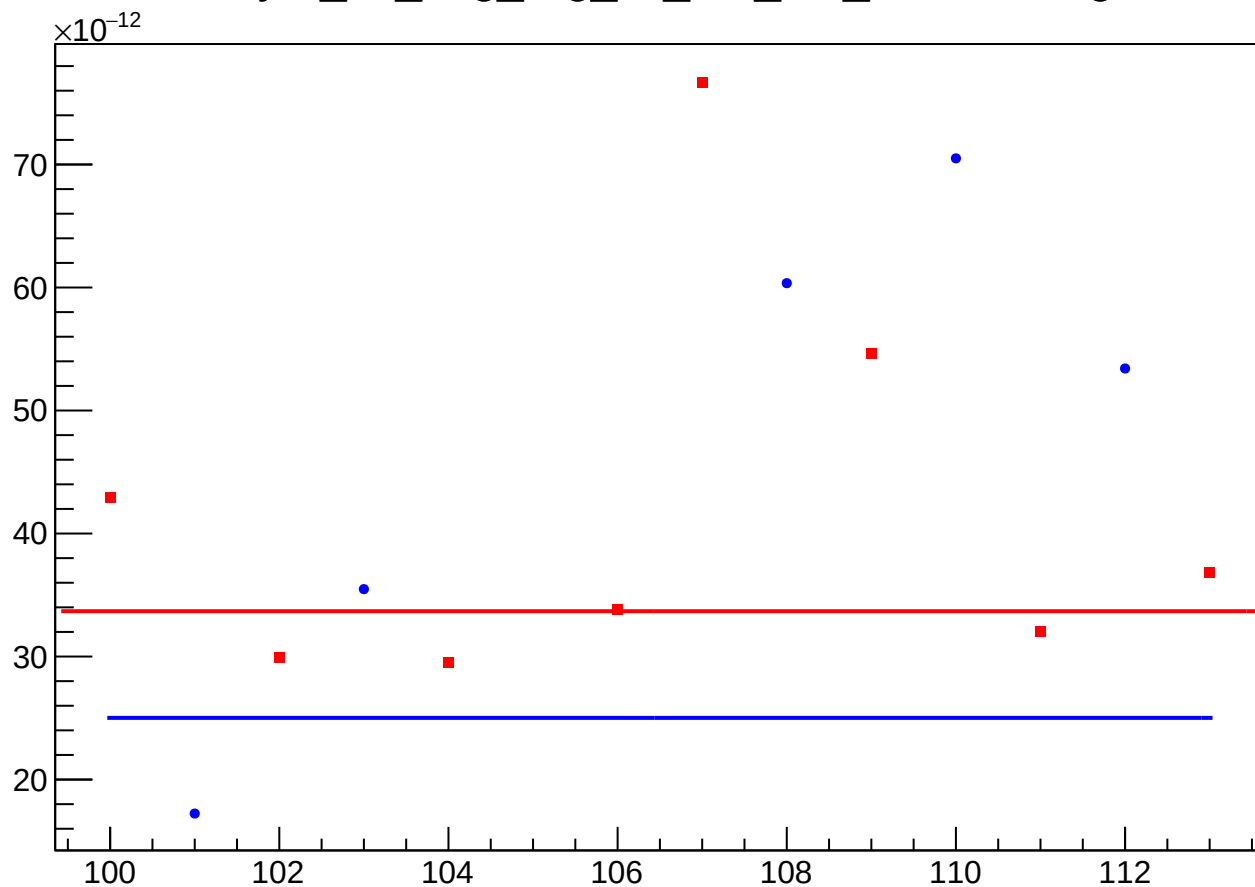
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.3/12

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

# asym\_us\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 790605.7/4

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 210064.9/7

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

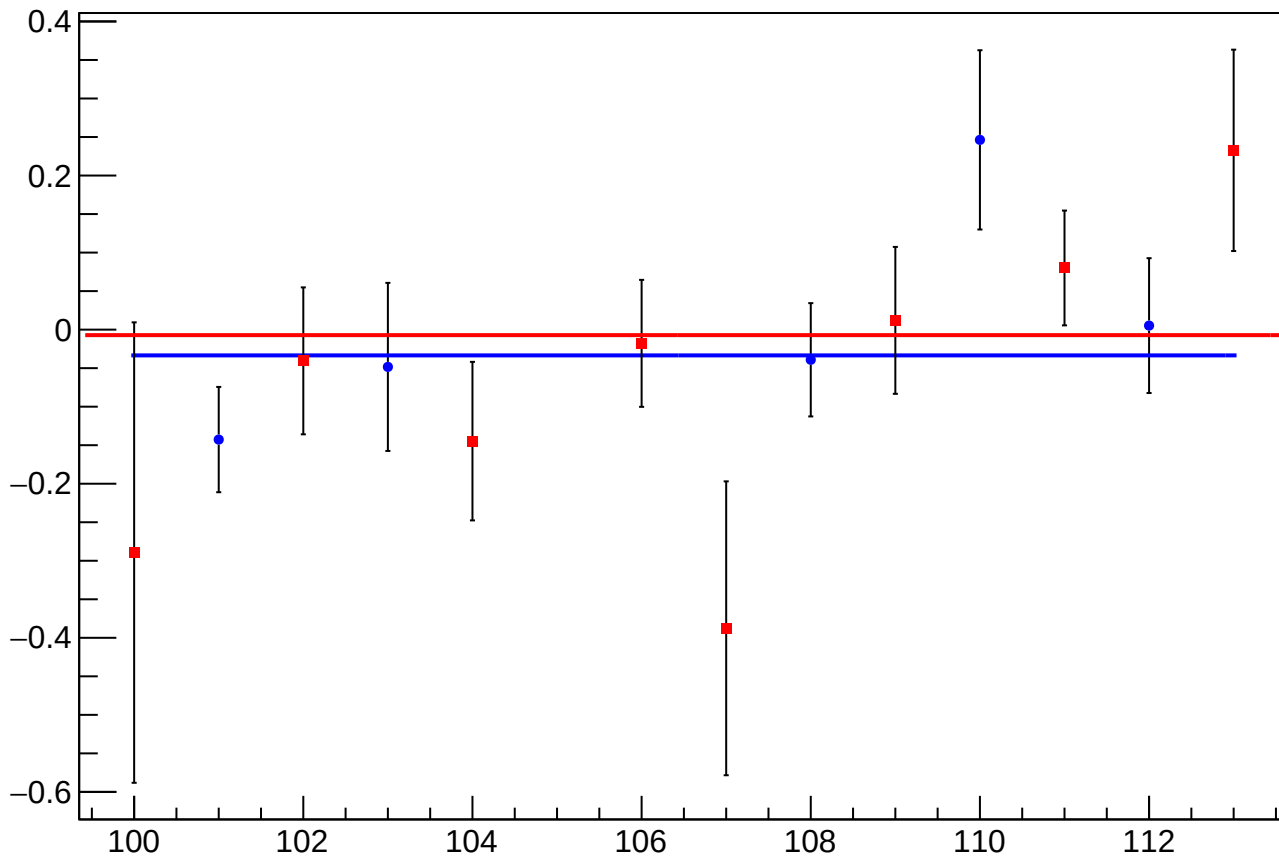
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1130296.4/12

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



asym\_us\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.033+/-0.038  $\chi^2/\text{NDF}$ : 8.6/4

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

Right Out: -0.007+/-0.037  $\chi^2/\text{NDF}$ : 11.6/7

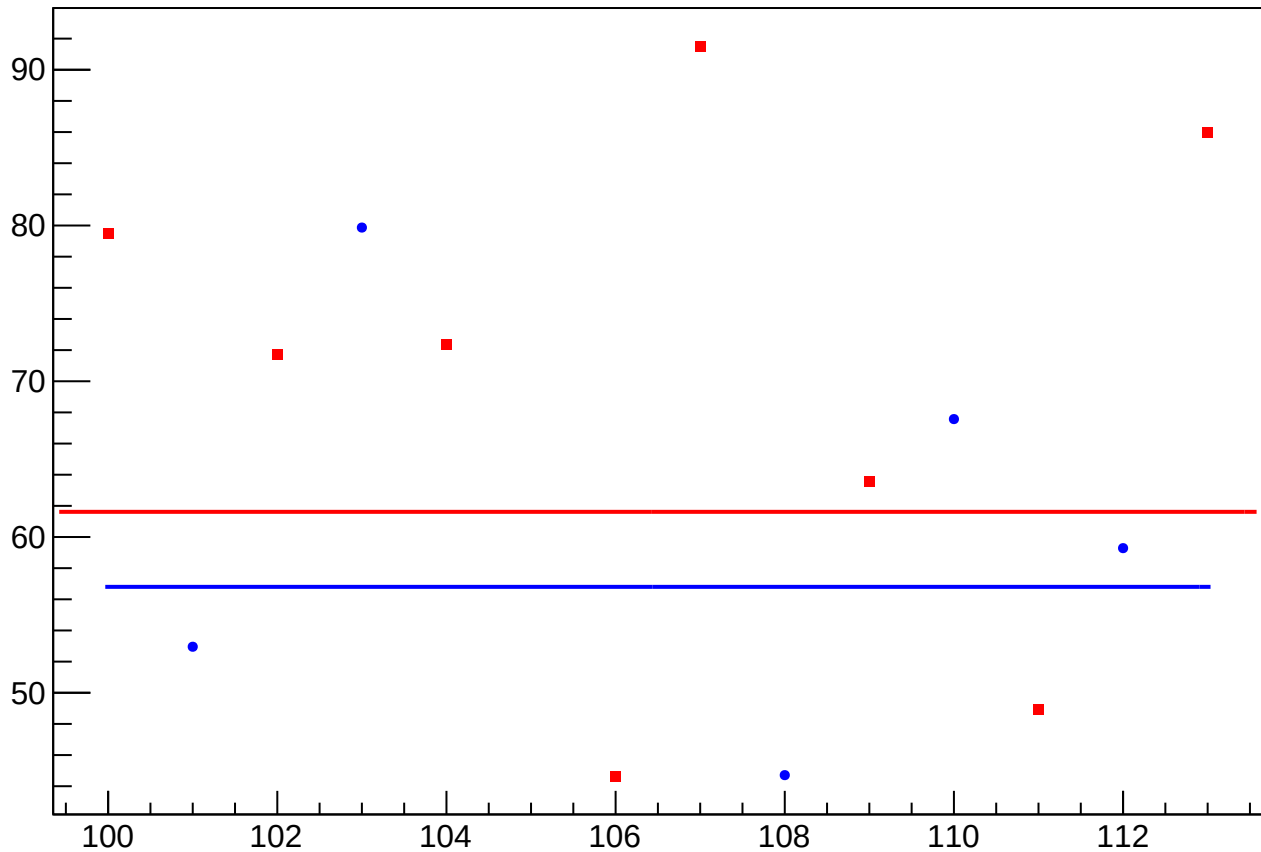
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.020+/-0.026  $\chi^2/\text{NDF}$ : 20.4/12

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

# asym\_us\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 56.800 $\pm$ 0.027  $\chi^2$ /NDF: 168595.4/4

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

Right Out: 61.617 $\pm$ 0.026  $\chi^2$ /NDF: 313859.0/7

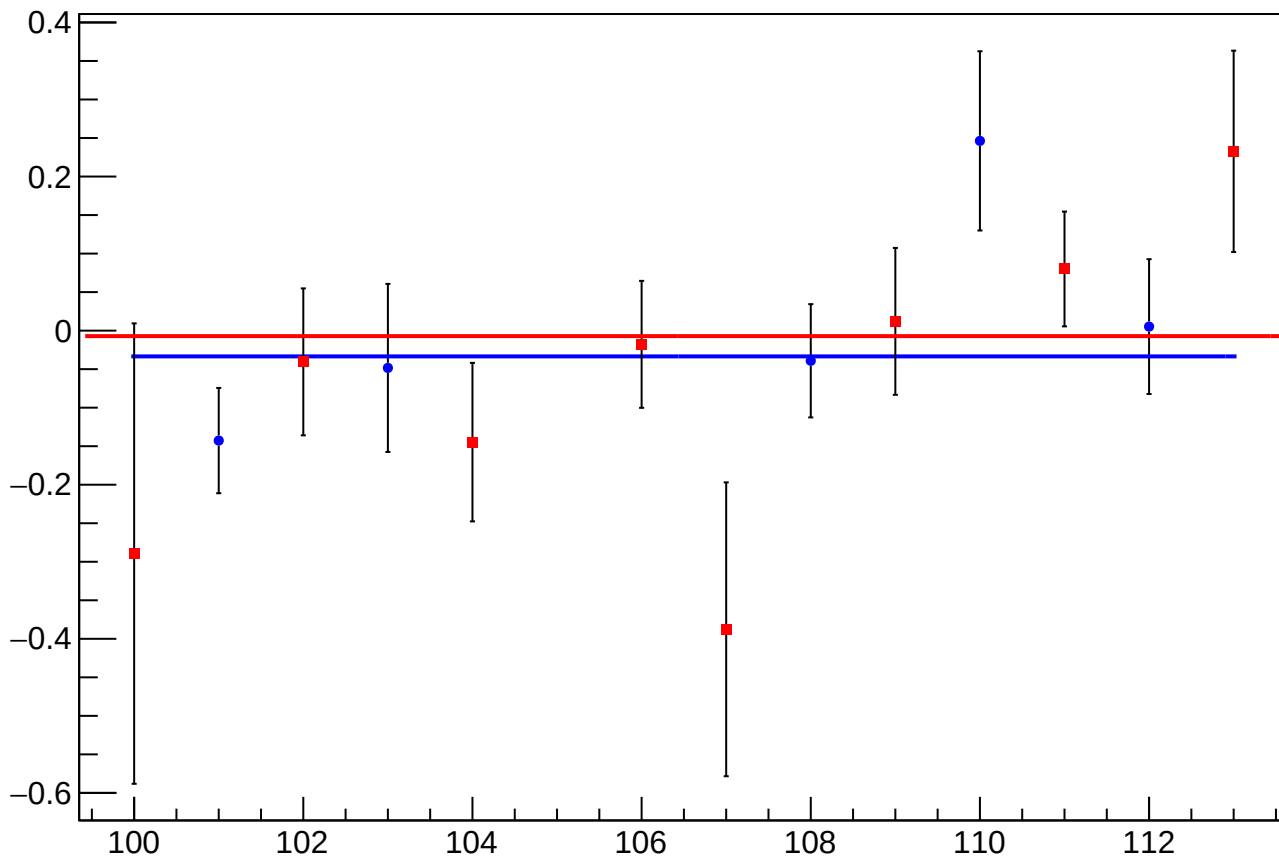
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 59.296 $\pm$ 0.019  $\chi^2$ /NDF: 498983.8/12

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

asym\_us\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.033+/-0.038  $\chi^2/\text{NDF}$ : 8.6/4

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

Right Out: -0.007+/-0.037  $\chi^2/\text{NDF}$ : 11.6/7

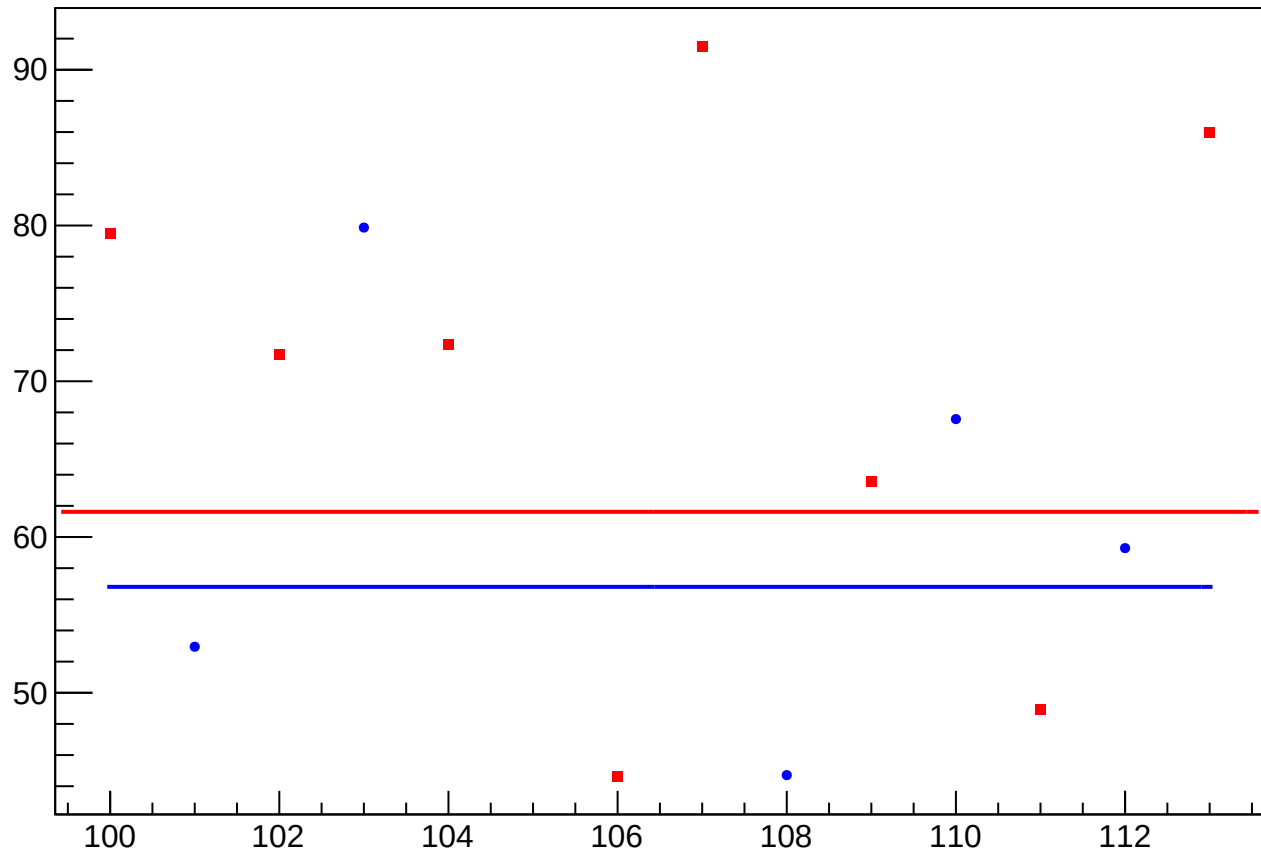
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.020+/-0.026  $\chi^2/\text{NDF}$ : 20.4/12

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

asym\_us\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 56.800+/-0.027  $\chi^2/\text{NDF}$ : 168595.4/4

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

Right Out: 61.617+/-0.026  $\chi^2/\text{NDF}$ : 313859.0/7

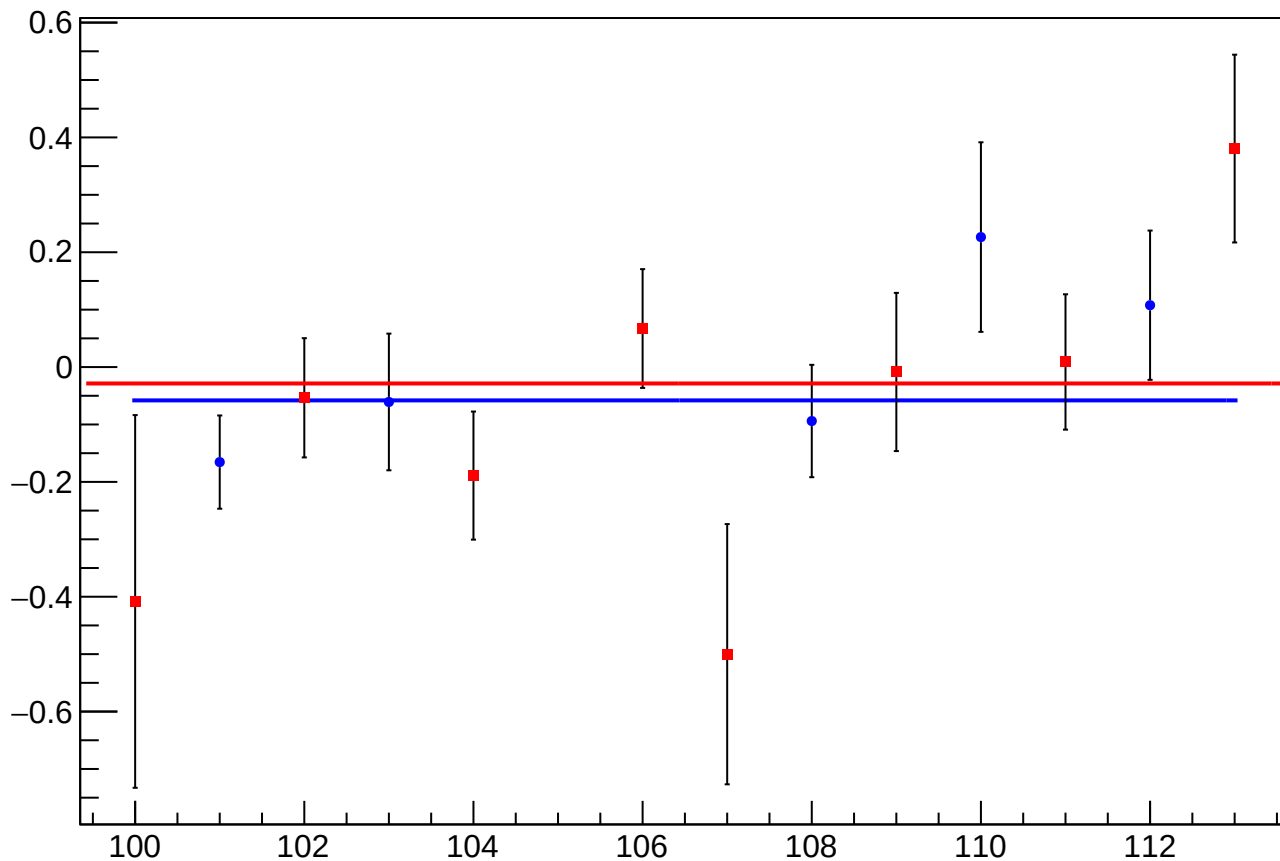
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 59.296+/-0.019  $\chi^2/\text{NDF}$ : 498983.8/12

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

asym\_us\_avg\_dit\_vs\_overload\_cor\_diff\_mean vs Slug



Right In: -0.058 $\pm$ 0.049  $\chi^2$ /NDF: 6.5/4

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

Right Out: -0.029 $\pm$ 0.047  $\chi^2$ /NDF: 15.1/7

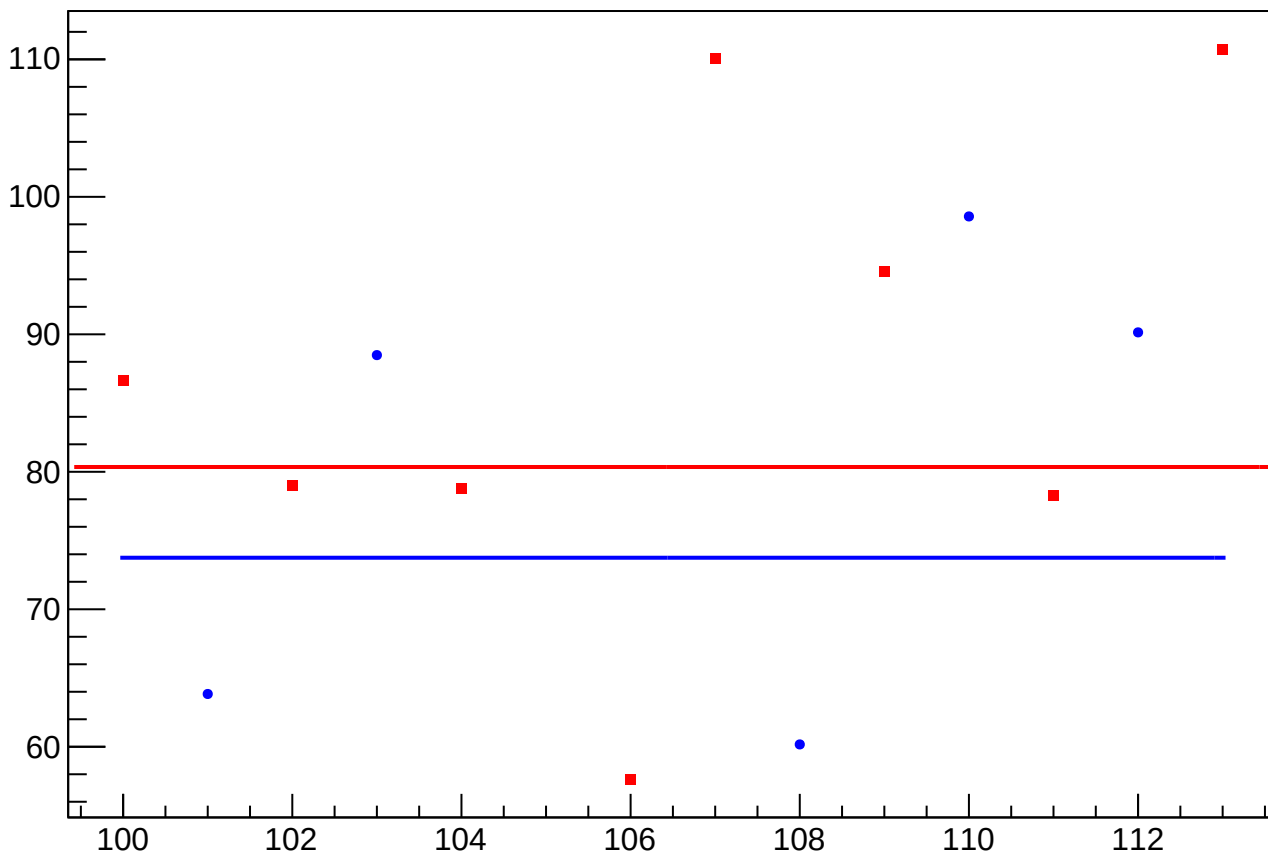
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.043 $\pm$ 0.034  $\chi^2$ /NDF: 21.7/12

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

asym\_us\_avg\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In: 73.750 $\pm$ 0.034  $\chi^2$ /NDF: 176012.7/4

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

Right Out: 80.349 $\pm$ 0.033  $\chi^2$ /NDF: 223626.7/7

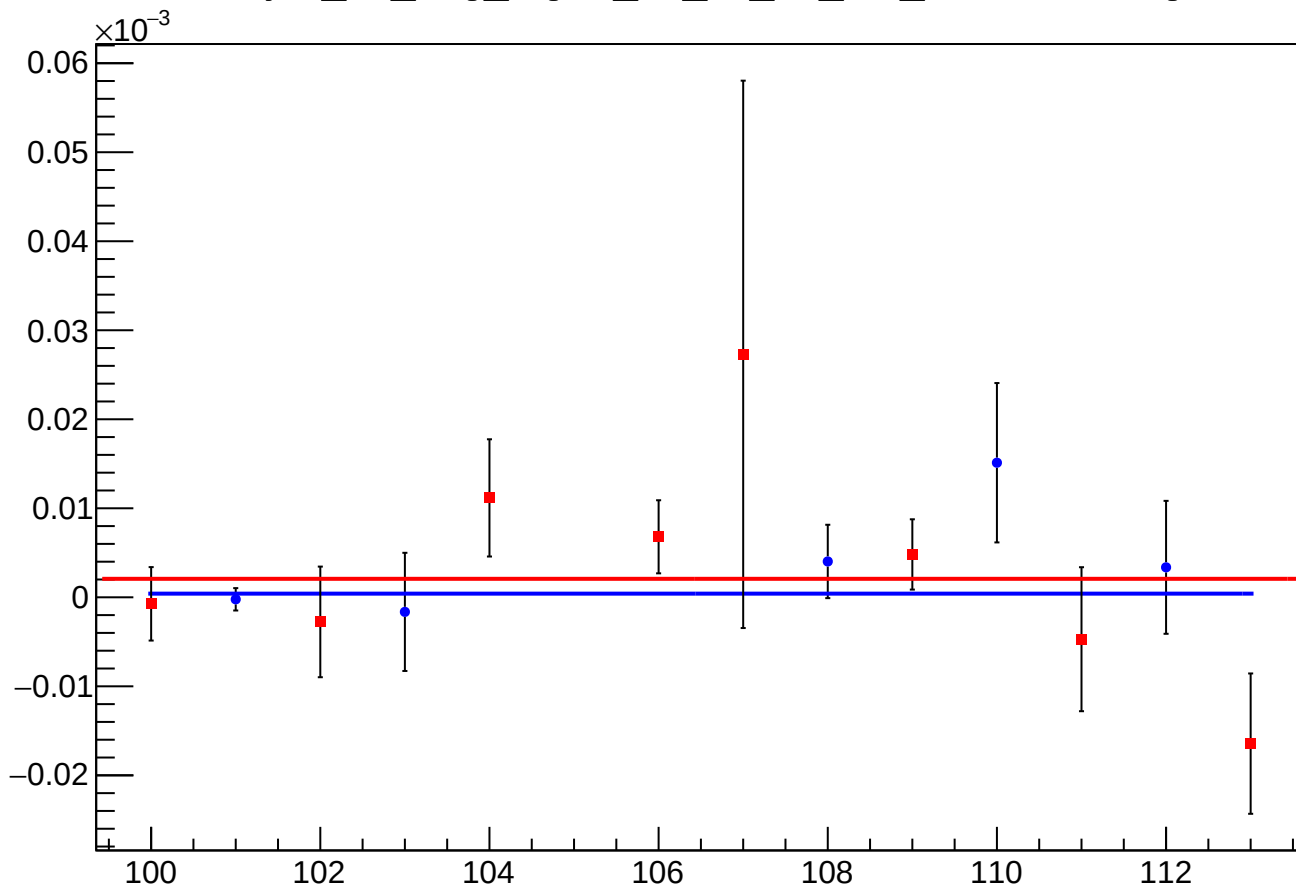
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 77.181 $\pm$ 0.024  $\chi^2$ /NDF: 418776.7/12

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

asym\_us\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.0/4

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

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.7/7

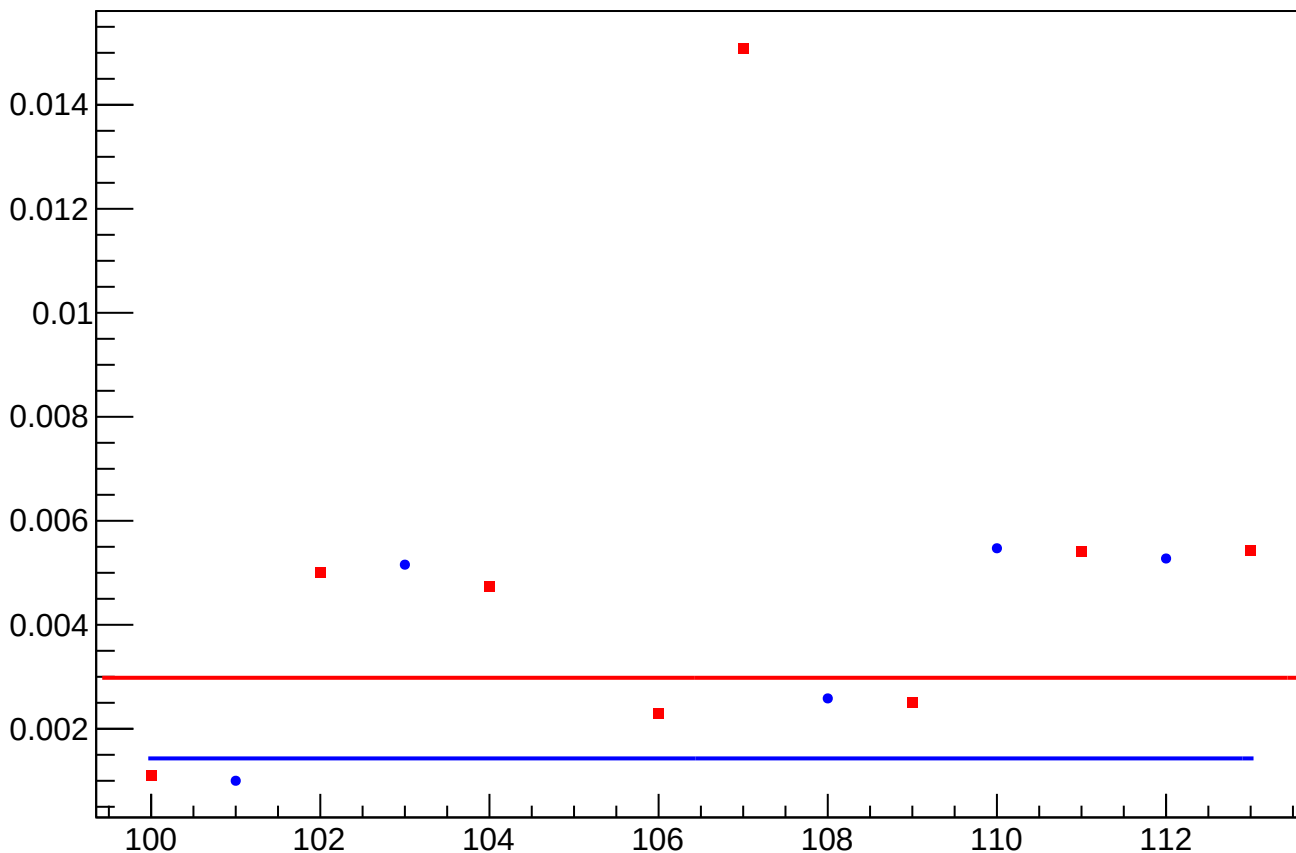
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.2/12

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

# asym\_us\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1958623.5/4

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

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1531874.6/7

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

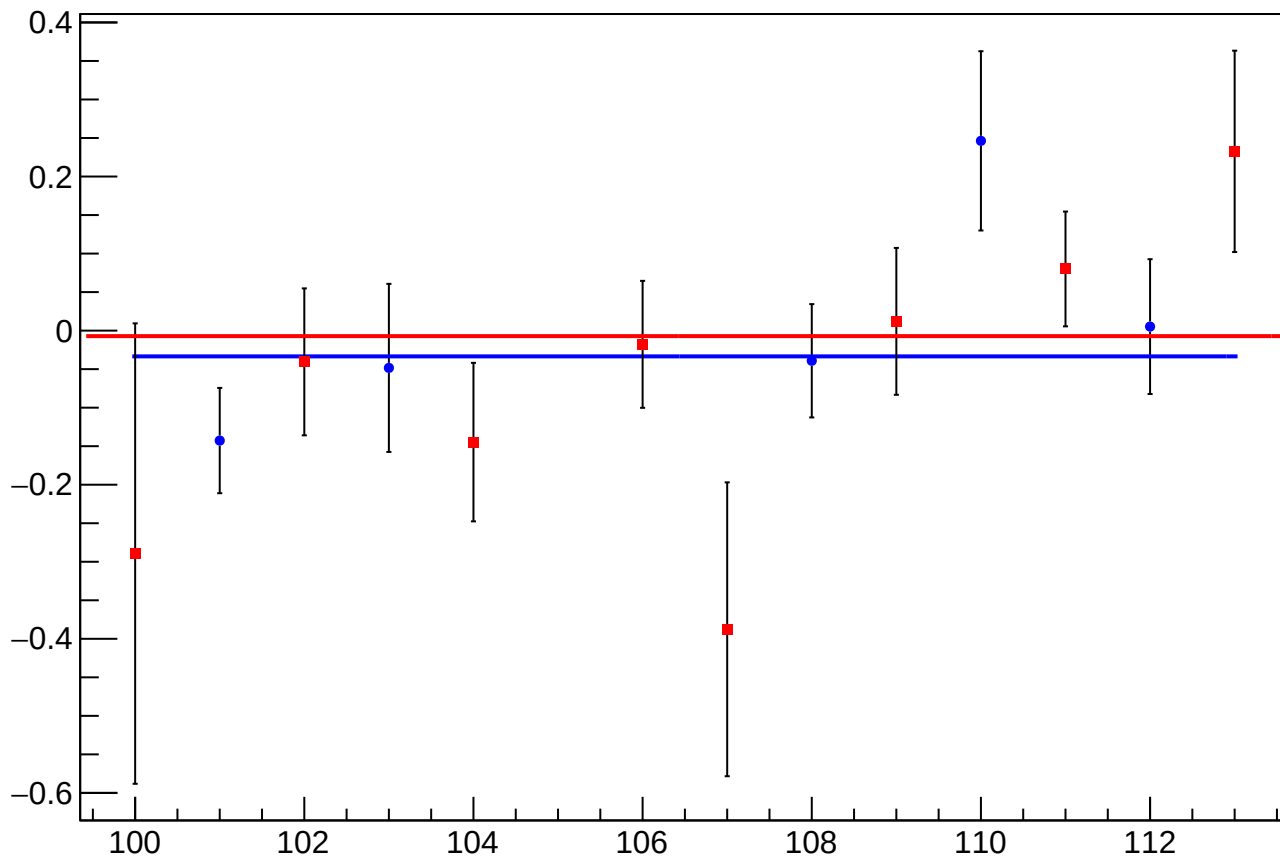
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4426726.7/12

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



asym\_us\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.033+/-0.038  $\chi^2/\text{NDF}$ : 8.6/4

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

Right Out: -0.007+/-0.037  $\chi^2/\text{NDF}$ : 11.6/7

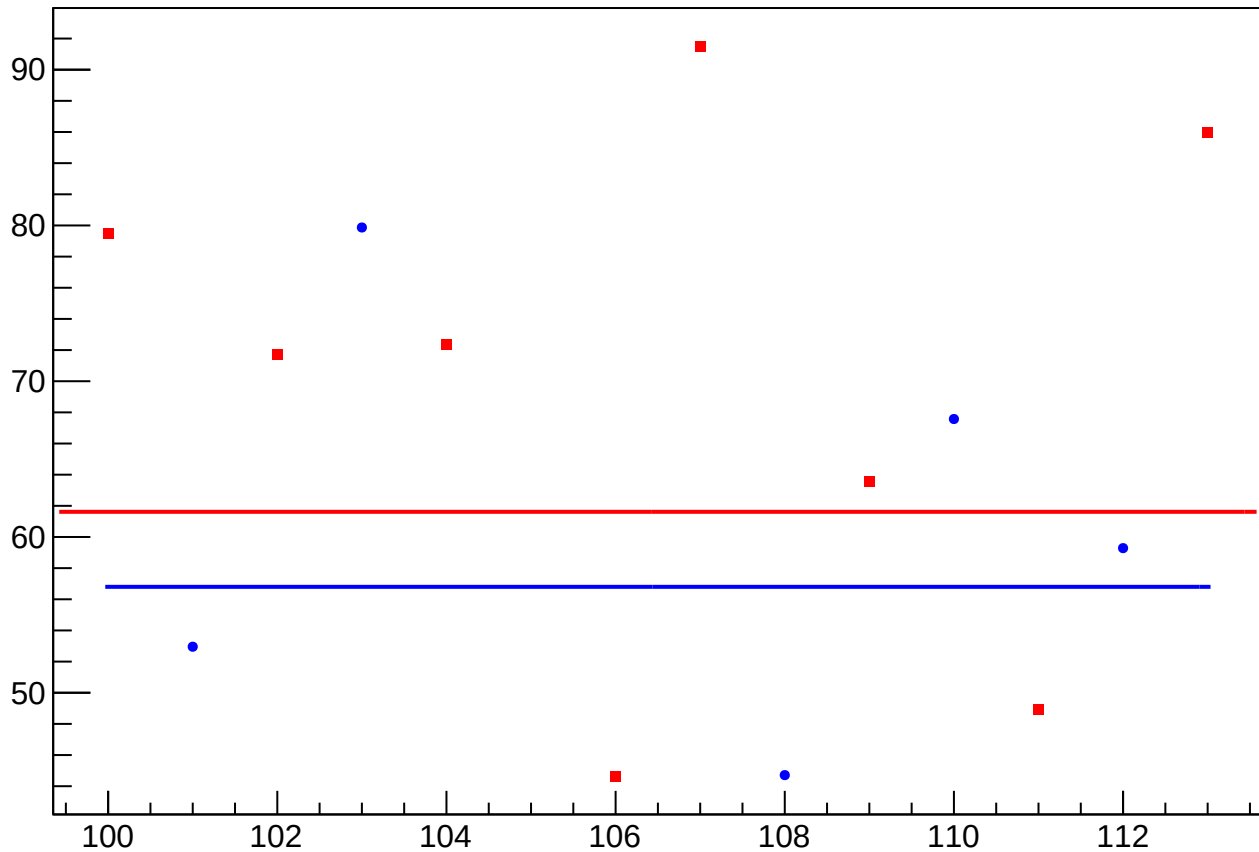
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.020+/-0.026  $\chi^2/\text{NDF}$ : 20.4/12

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

# asym\_us\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 56.800+/-0.027  $\chi^2/\text{NDF}$ : 168606.7/4

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

Right Out: 61.616+/-0.026  $\chi^2/\text{NDF}$ : 313844.4/7

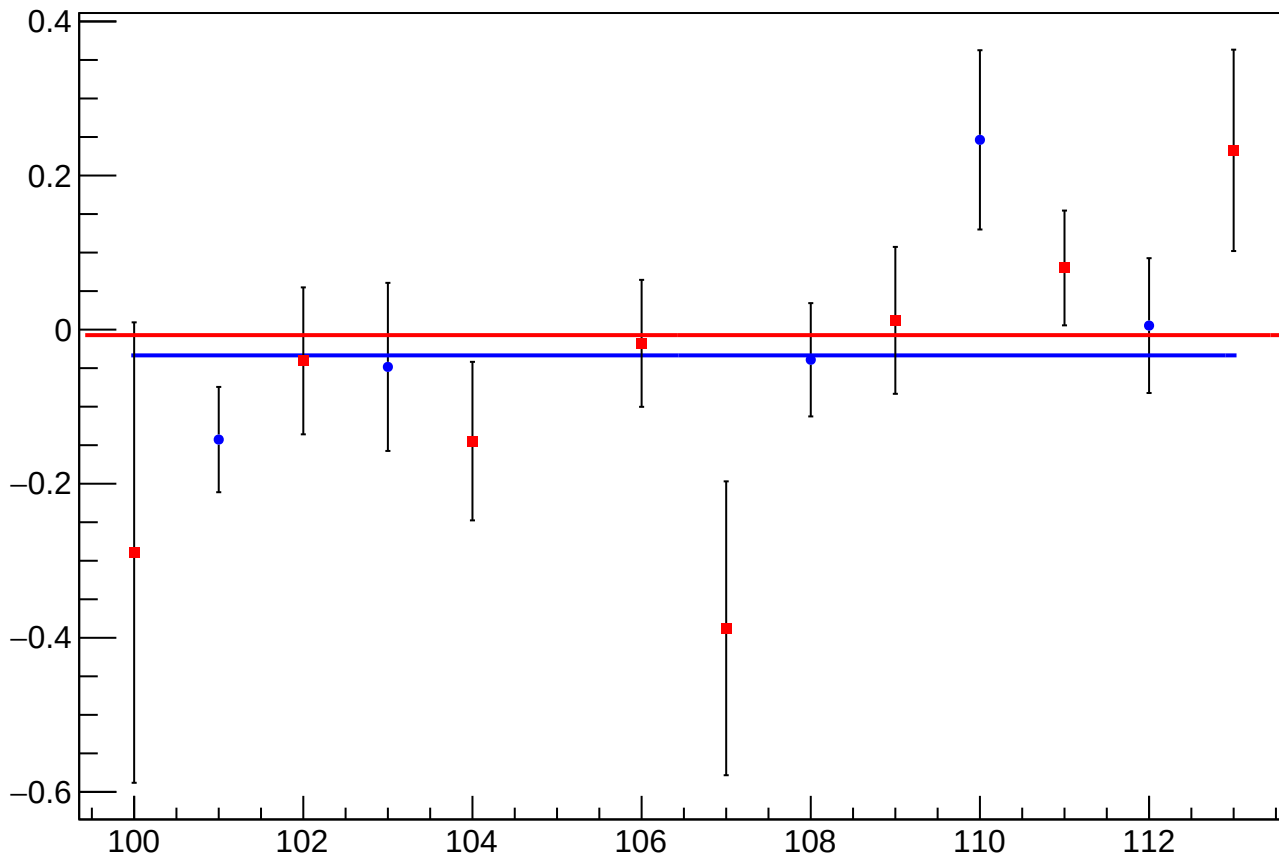
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 59.295+/-0.019  $\chi^2/\text{NDF}$ : 498978.3/12

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

asym\_us\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.033+/-0.038  $\chi^2/\text{NDF}$ : 8.6/4

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

Right Out: -0.007+/-0.037  $\chi^2/\text{NDF}$ : 11.6/7

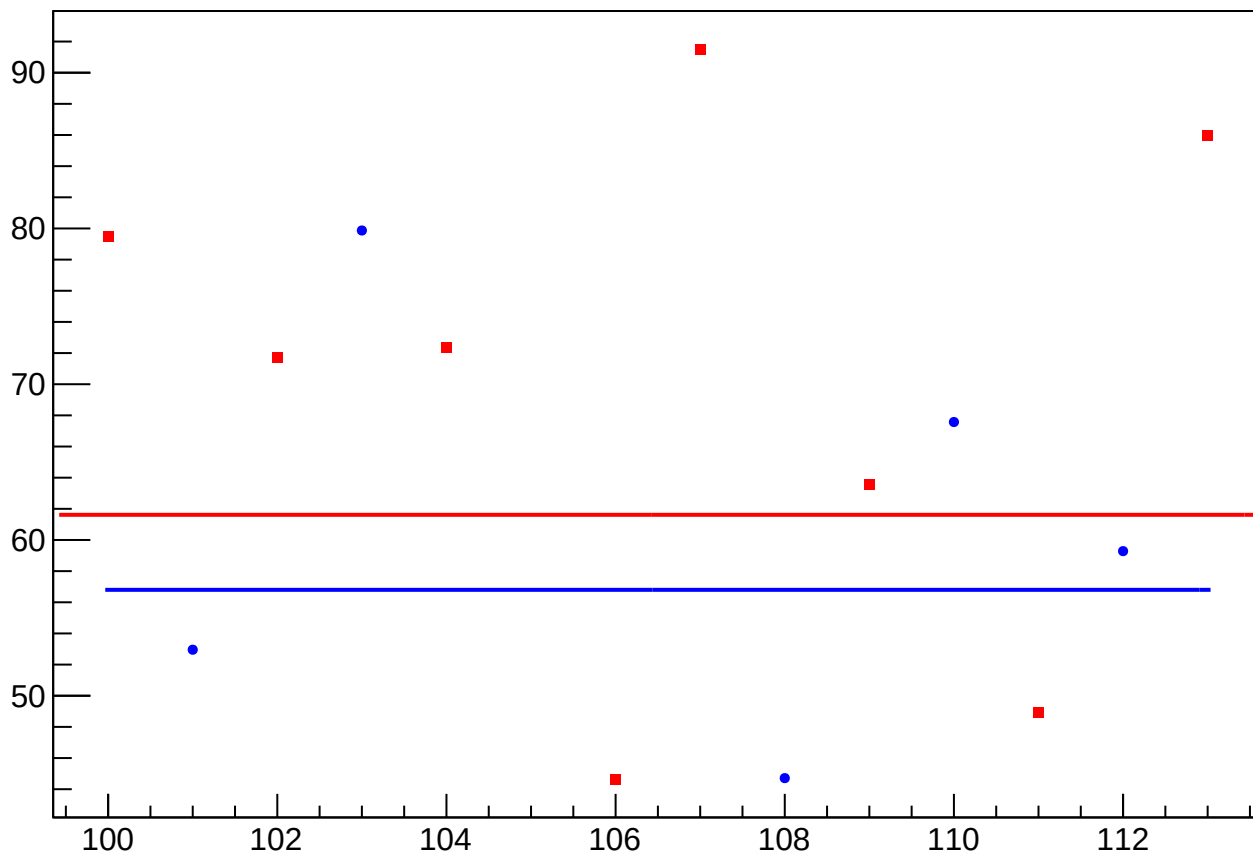
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.020+/-0.026  $\chi^2/\text{NDF}$ : 20.4/12

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

asym\_us\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 56.800+/-0.027  $\chi^2/\text{NDF}$ : 168606.7/4

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

Right Out: 61.616+/-0.026  $\chi^2/\text{NDF}$ : 313844.4/7

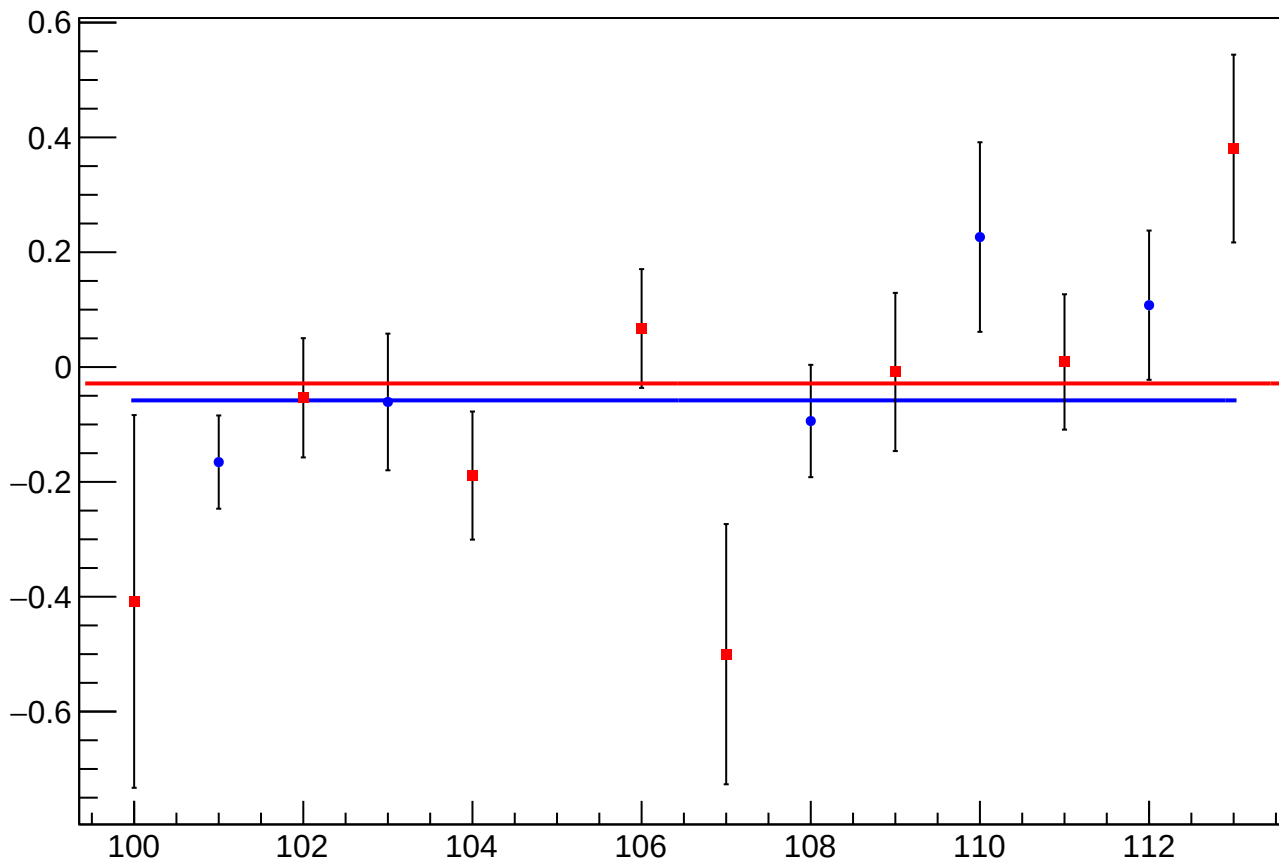
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 59.295+/-0.019  $\chi^2/\text{NDF}$ : 498978.3/12

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

asym\_us\_avg\_eigen\_dit\_vs\_overload\_cor\_diff\_mean vs Slug



Right In: -0.058+/-0.049  $\chi^2/\text{NDF}$ : 6.5/4

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

Right Out: -0.029+/-0.047  $\chi^2/\text{NDF}$ : 15.1/7

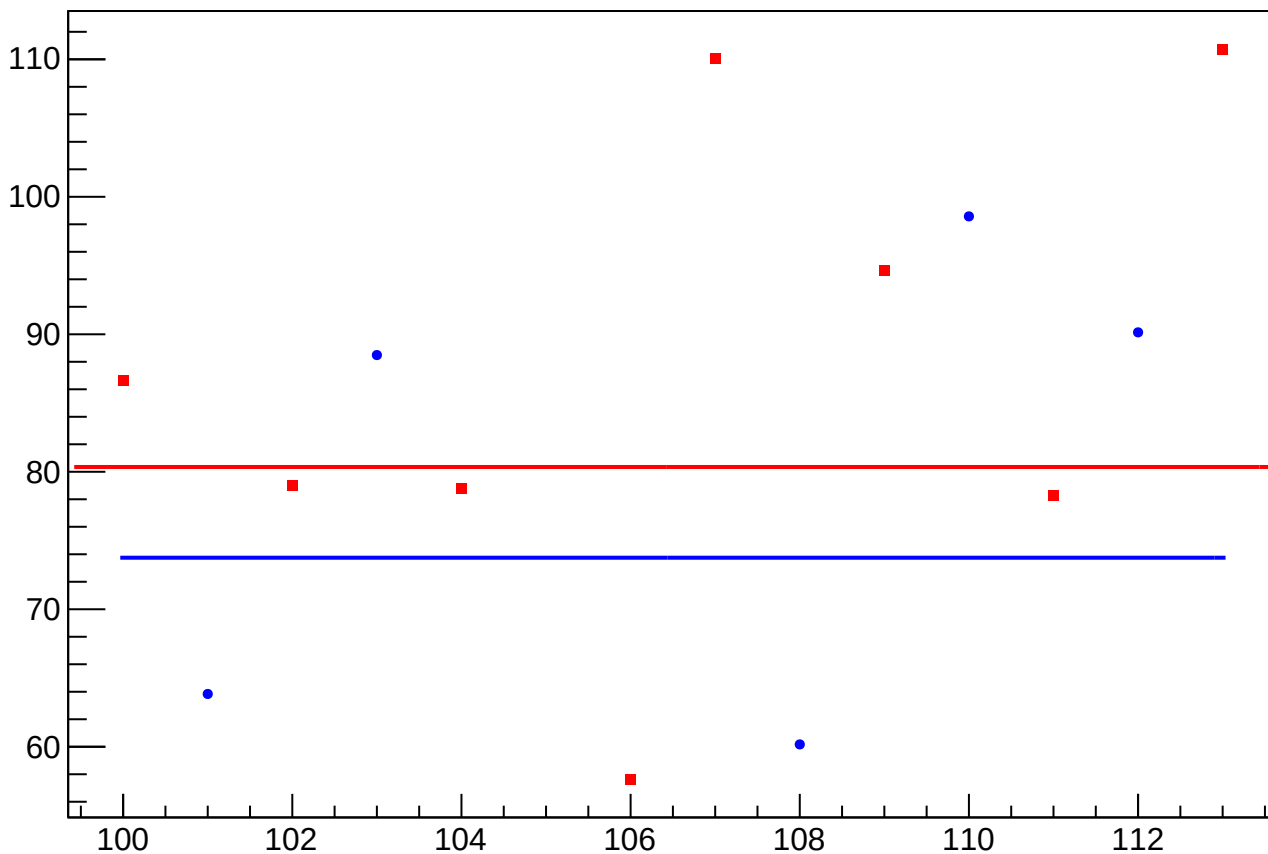
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.043+/-0.034  $\chi^2/\text{NDF}$ : 21.7/12

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

asym\_us\_avg\_eigen\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In: 73.750 $\pm$ 0.034  $\chi^2$ /NDF: 176018.3/4

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

Right Out: 80.349 $\pm$ 0.033  $\chi^2$ /NDF: 223615.7/7

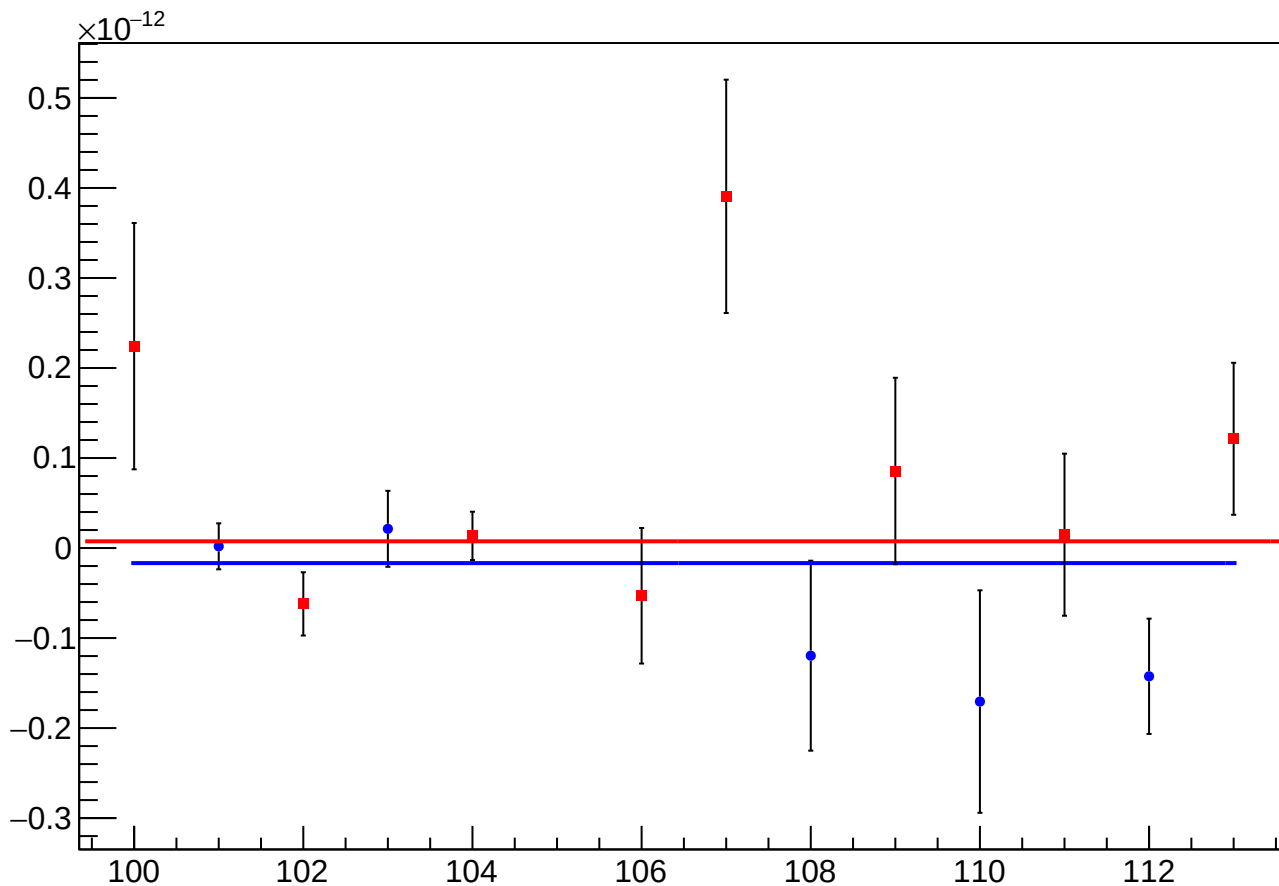
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 77.181 $\pm$ 0.024  $\chi^2$ /NDF: 418769.1/12

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

asym\_us\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.7/4

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.3/7

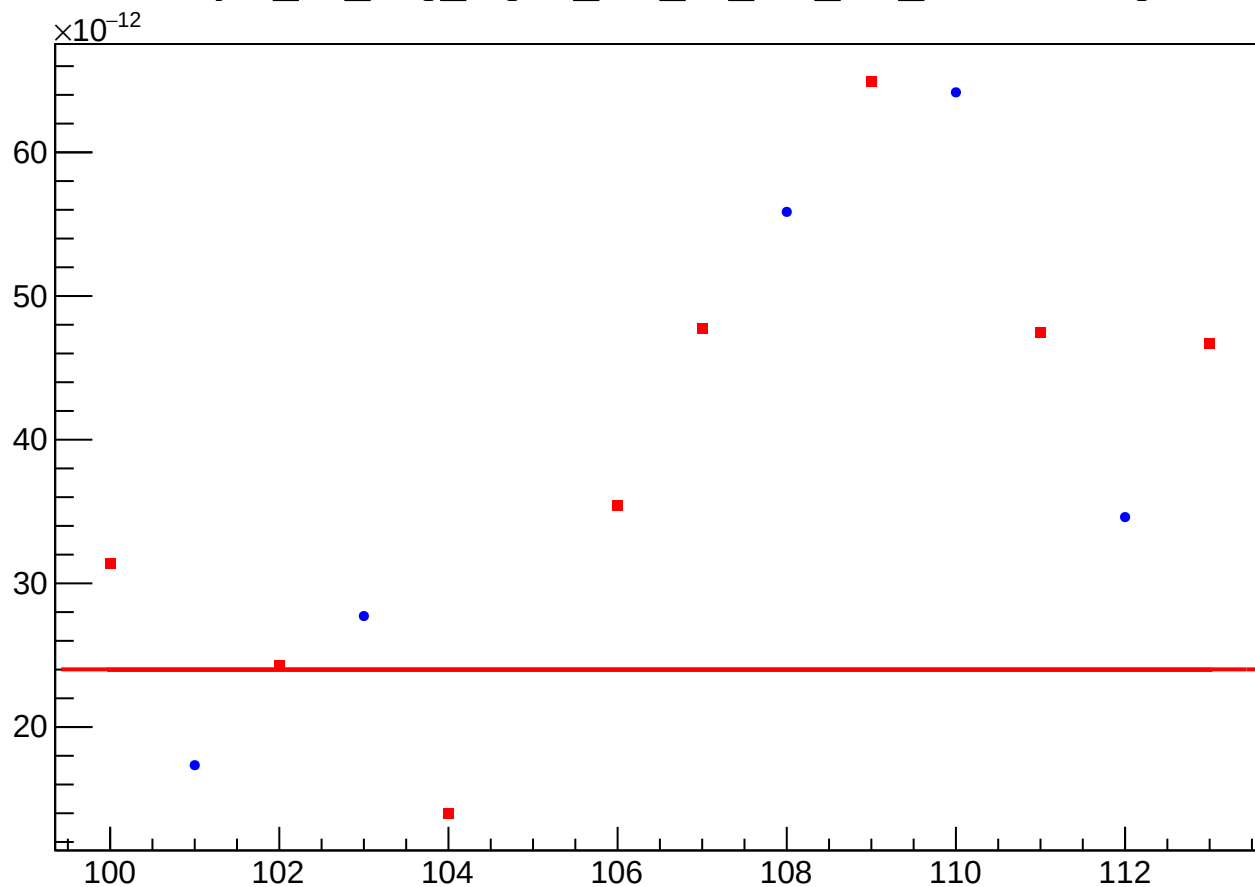
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 26.7/12

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

# asym\_us\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 599896.7/4

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 990131.2/7

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

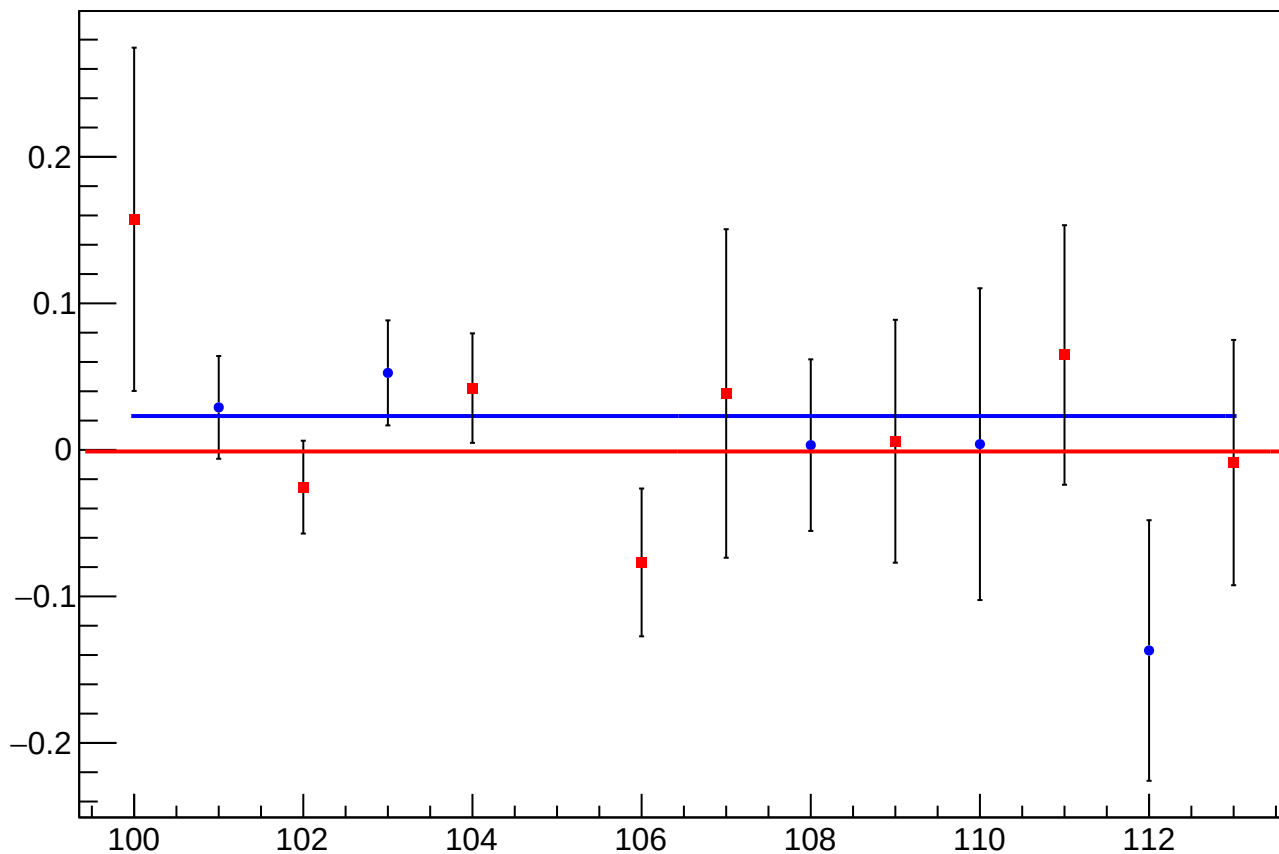
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1590029.6/12

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



asym\_us\_avg\_overload\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.023+/-0.022  $\chi^2/\text{NDF}$ : 4.1/4

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

Right Out: -0.001+/-0.019  $\chi^2/\text{NDF}$ : 6.7/7

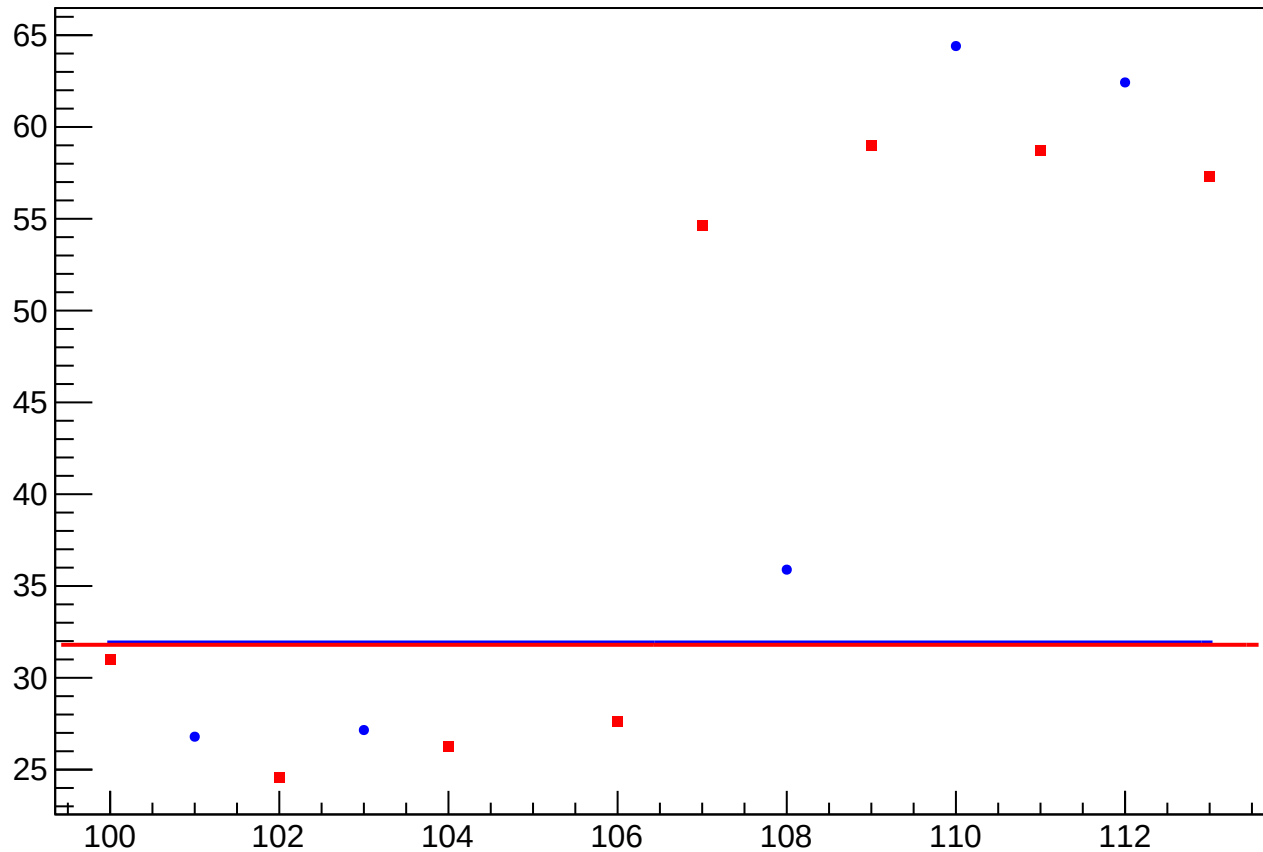
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.010+/-0.014  $\chi^2/\text{NDF}$ : 11.5/12

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

asym\_us\_avg\_overload\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 31.923+/-0.015  $\chi^2/\text{NDF}$ : 509100.1/4

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

Right Out: 31.798+/-0.014  $\chi^2/\text{NDF}$ : 830908.6/7

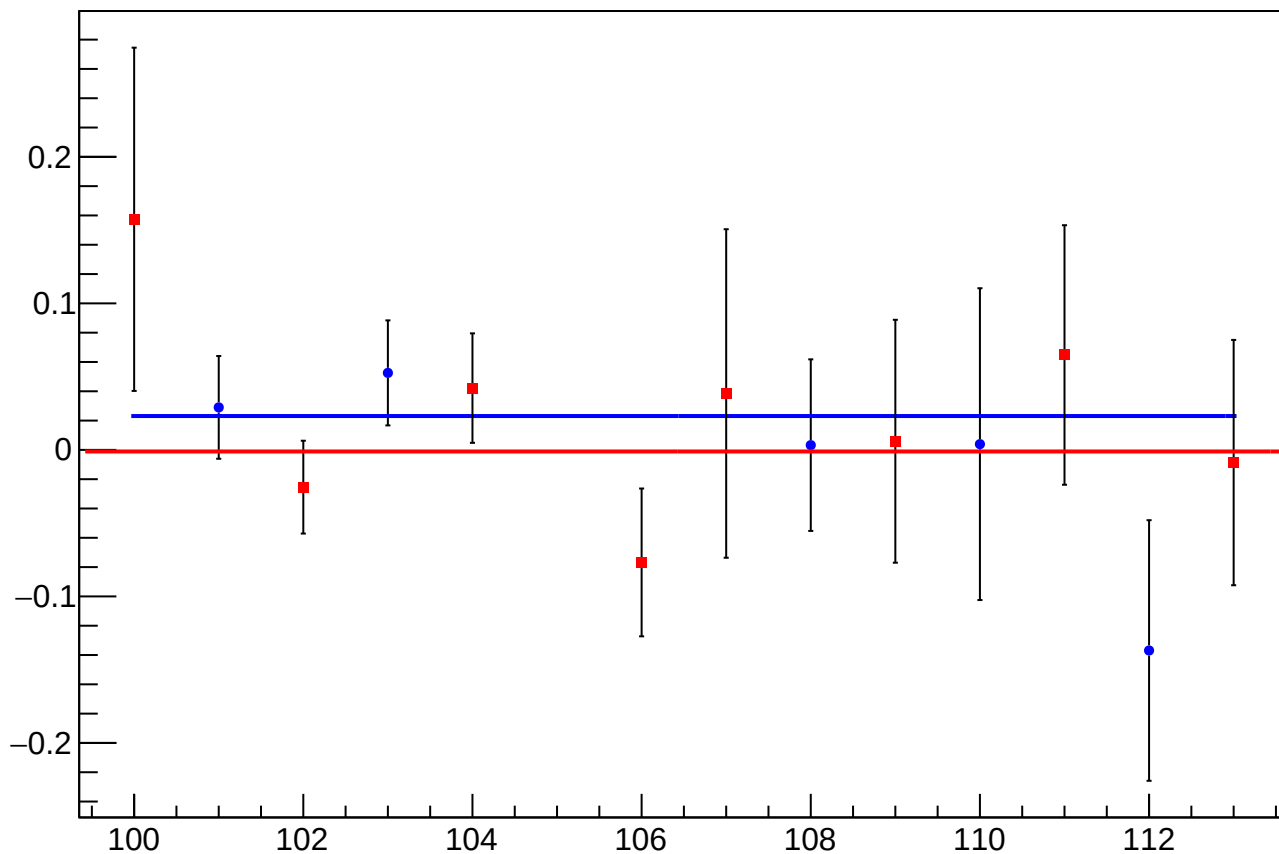
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 31.853+/-0.010  $\chi^2/\text{NDF}$ : 1340045.1/12

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

asym\_us\_avg\_overload\_cor\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.023+/-0.022  $\chi^2/\text{NDF}$ : 4.1/4

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

Right Out: -0.001+/-0.019  $\chi^2/\text{NDF}$ : 6.7/7

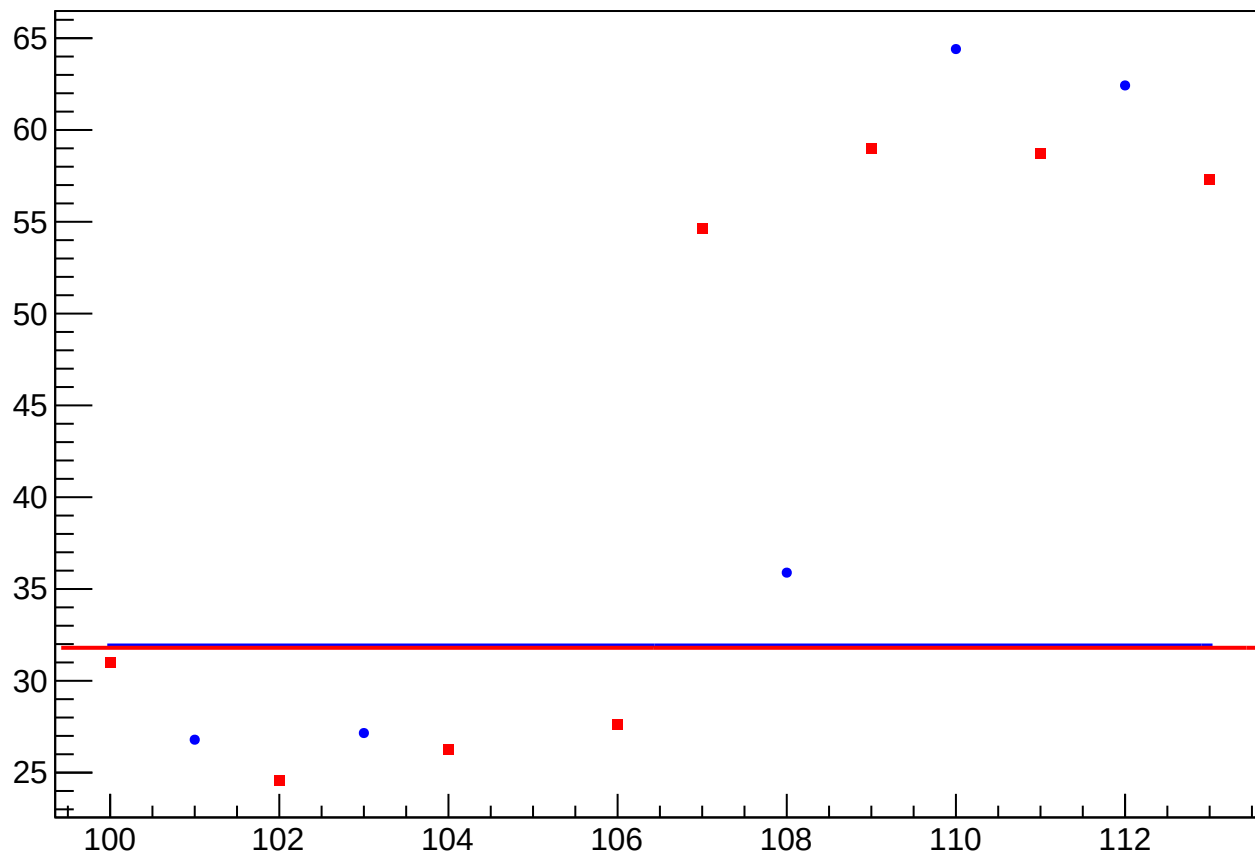
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.010+/-0.014  $\chi^2/\text{NDF}$ : 11.5/12

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

asym\_us\_avg\_overload\_cor\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 31.923+/-0.015  $\chi^2/\text{NDF}$ : 509100.1/4

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

Right Out: 31.798+/-0.014  $\chi^2/\text{NDF}$ : 830908.6/7

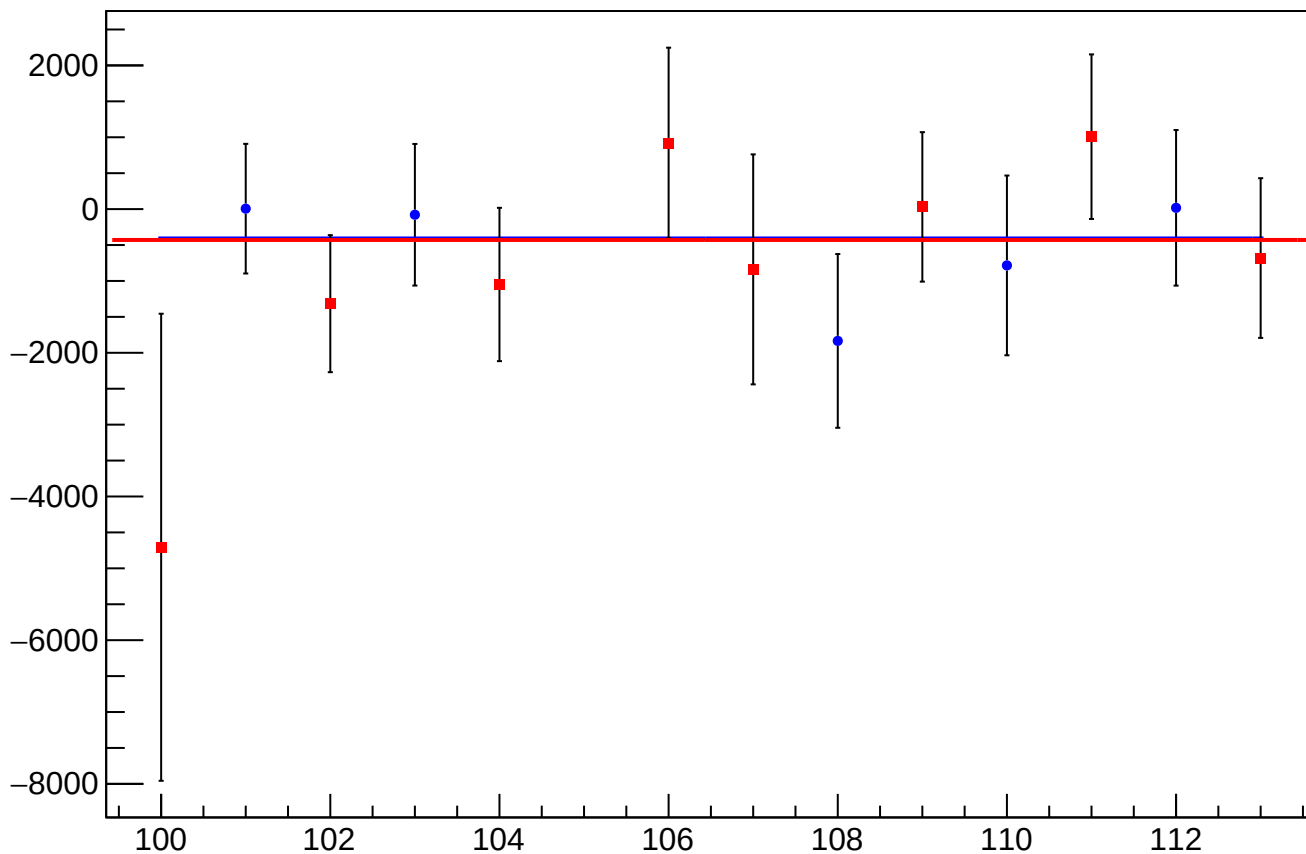
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 31.853+/-0.010  $\chi^2/\text{NDF}$ : 1340045.1/12

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

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



Right In: -409.010+/-474.874  $\chi^2$ /NDF: 2.0/4

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

Right Out: -429.467+/-425.372  $\chi^2$ /NDF: 5.9/7

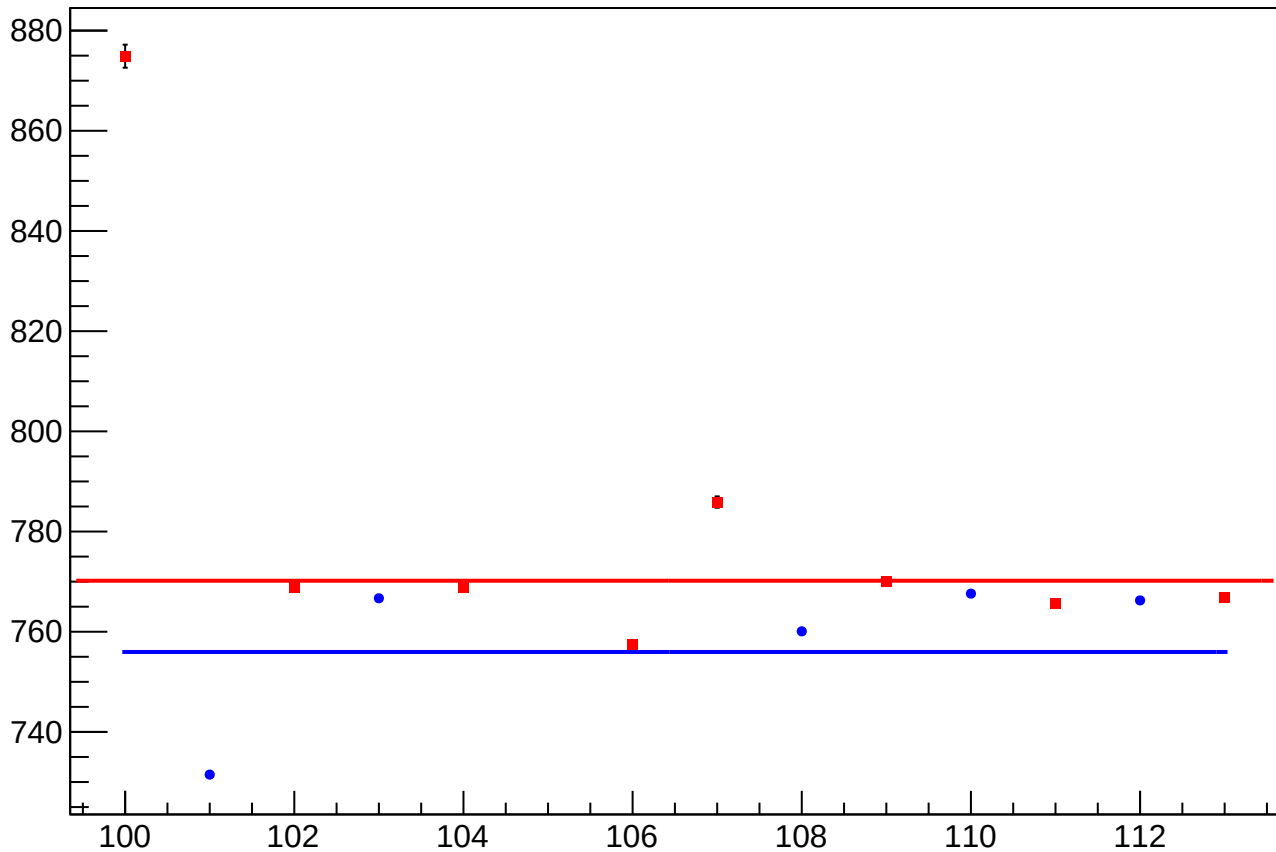
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -420.360+/-316.844  $\chi^2$ /NDF: 7.8/12

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

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



Right In: 755.962 $\pm$ 0.336  $\chi^2$ /NDF: 2087.0/4

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

Right Out: 770.182 $\pm$ 0.301  $\chi^2$ /NDF: 2506.3/7

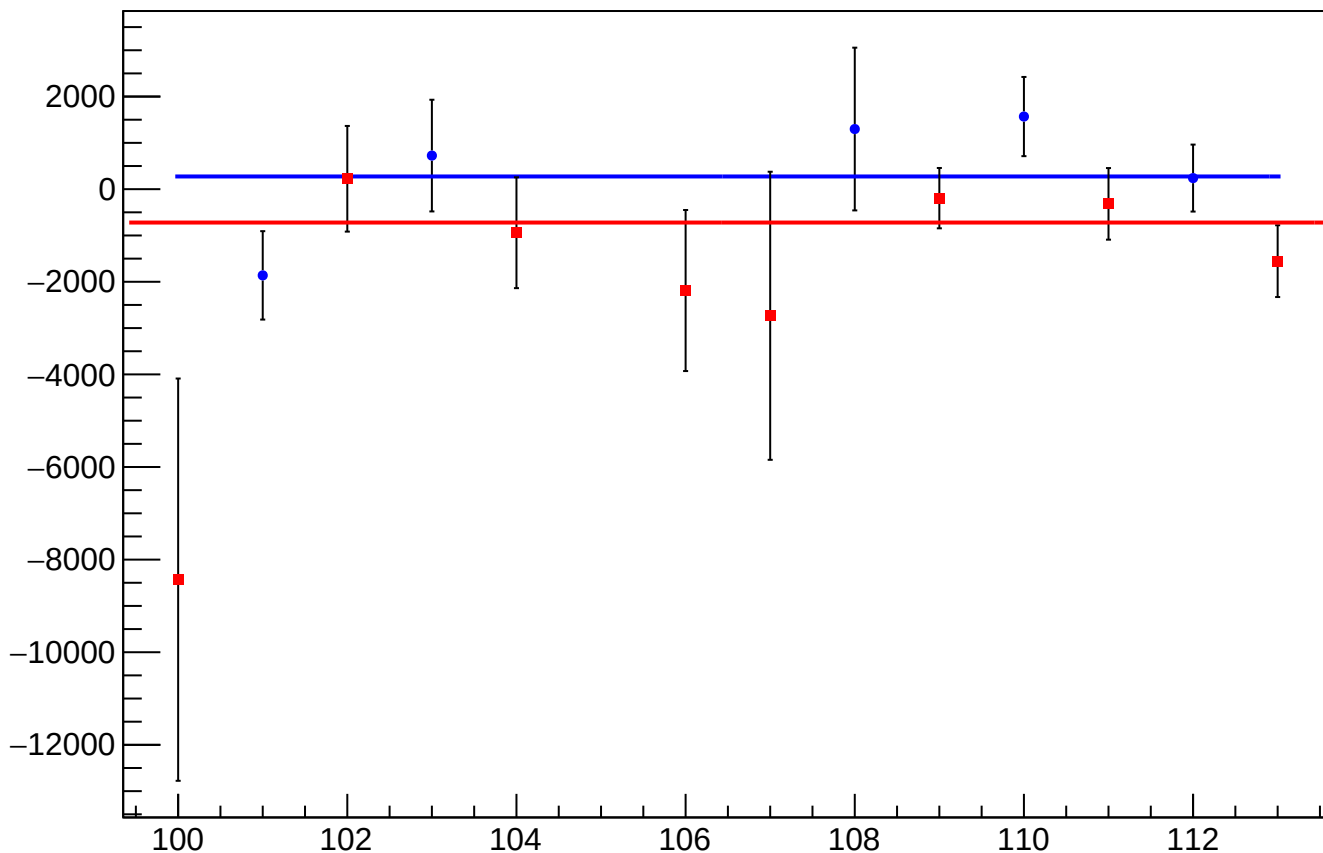
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 763.852 $\pm$ 0.224  $\chi^2$ /NDF: 5588.3/12

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

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



Right In: 274.391 $\pm$ 430.785  $\chi^2$ /NDF: 7.8/4

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

Right Out: -720.769 $\pm$ 361.656  $\chi^2$ /NDF: 7.1/7

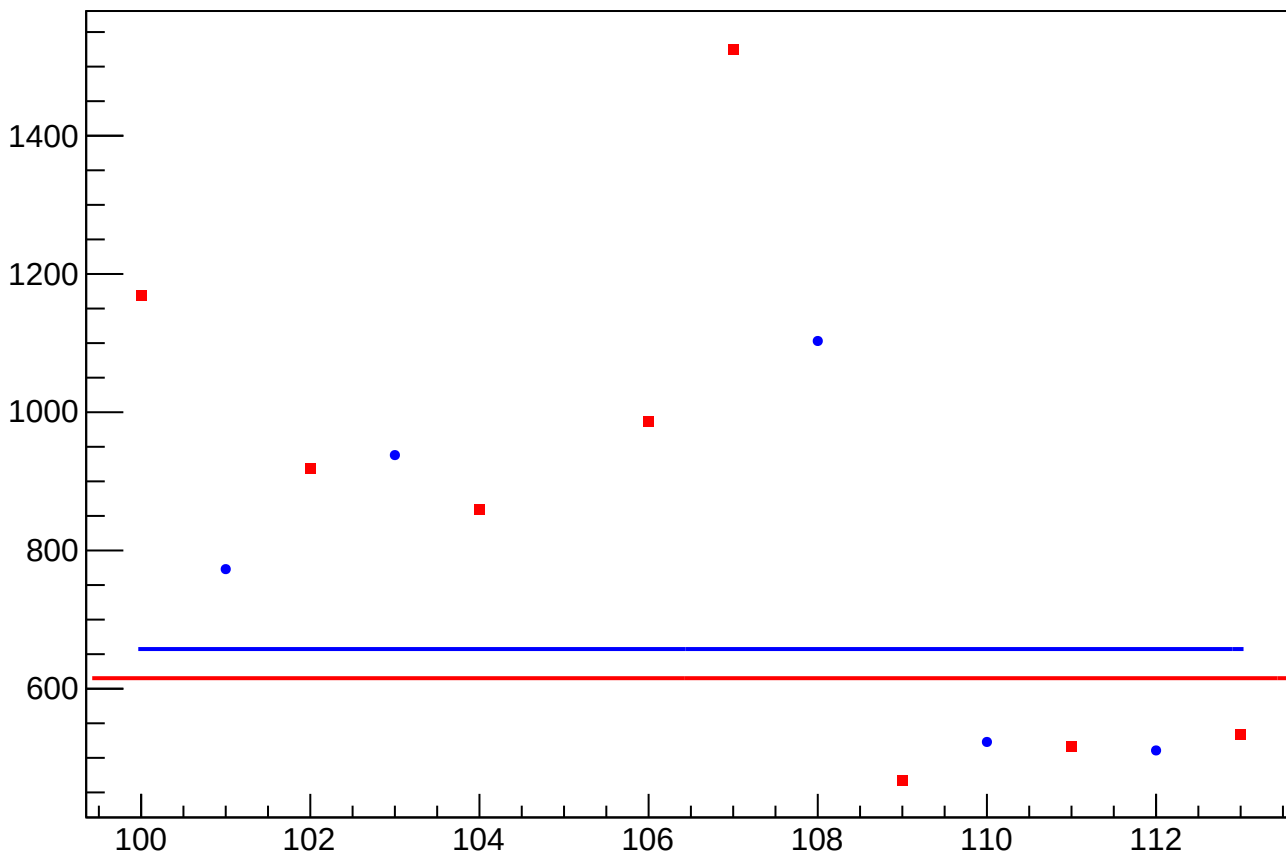
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -309.347 $\pm$ 276.986  $\chi^2$ /NDF: 18.0/12

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

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



Right In: 657.408 $\pm$ 0.305  $\chi^2$ /NDF: 397963.1/4

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

Right Out: 615.250 $\pm$ 0.256  $\chi^2$ /NDF: 677807.8/7

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

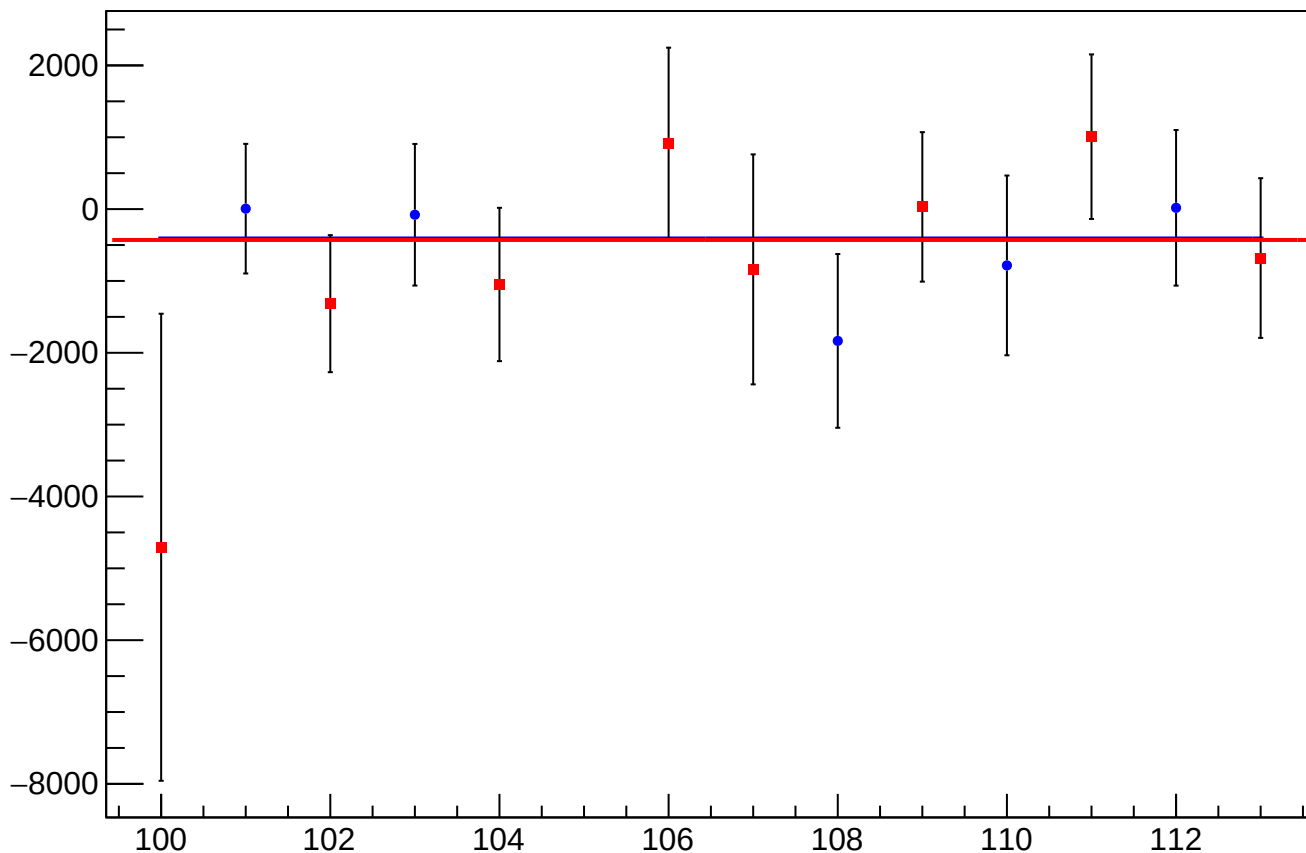
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 632.679 $\pm$ 0.196  $\chi^2$ /NDF: 1087006.4/12

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



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



Right In: -409.010+/-474.874  $\chi^2$ /NDF: 2.0/4

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

Right Out: -429.467+/-425.372  $\chi^2$ /NDF: 5.9/7

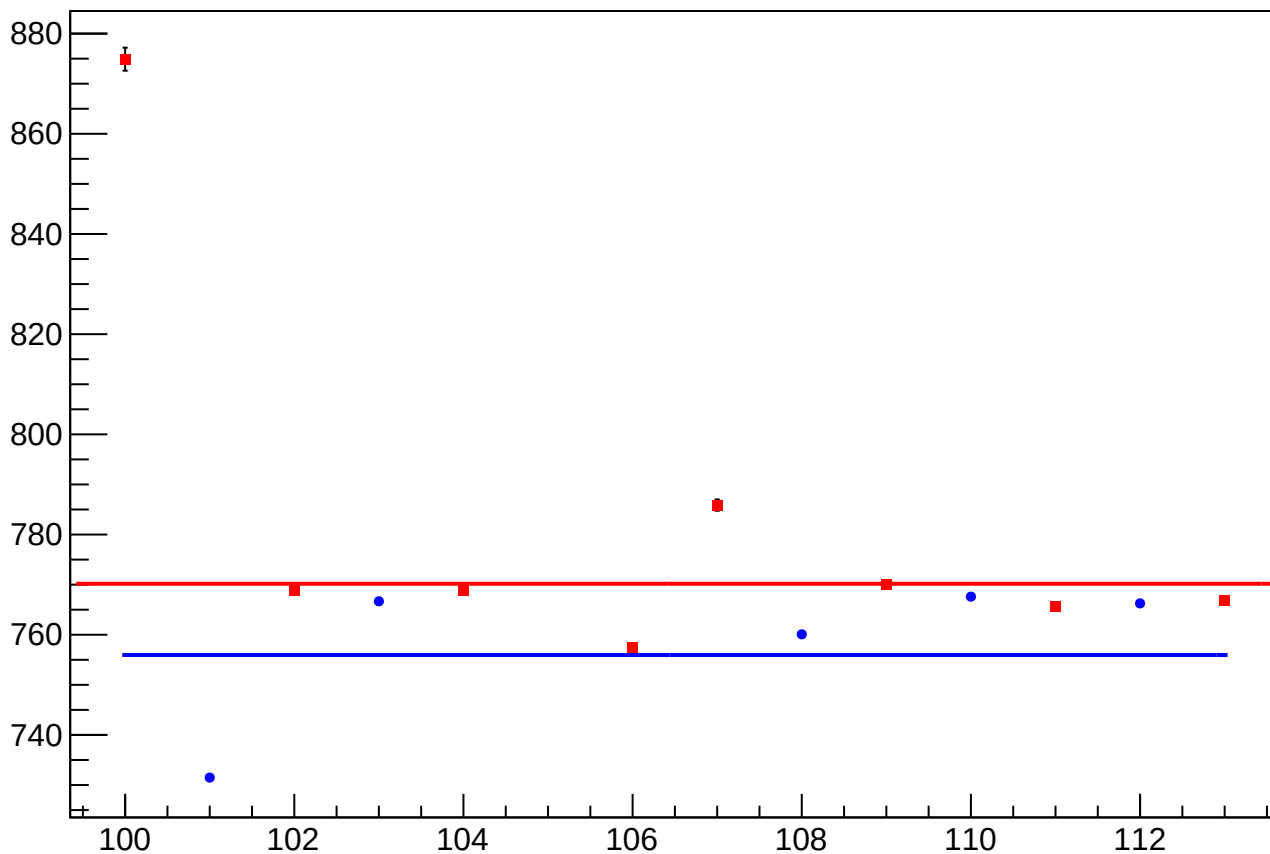
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -420.360+/-316.844  $\chi^2$ /NDF: 7.8/12

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

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



Right In: 755.962 $\pm$ 0.336  $\chi^2$ /NDF: 2087.0/4

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

Right Out: 770.182 $\pm$ 0.301  $\chi^2$ /NDF: 2506.3/7

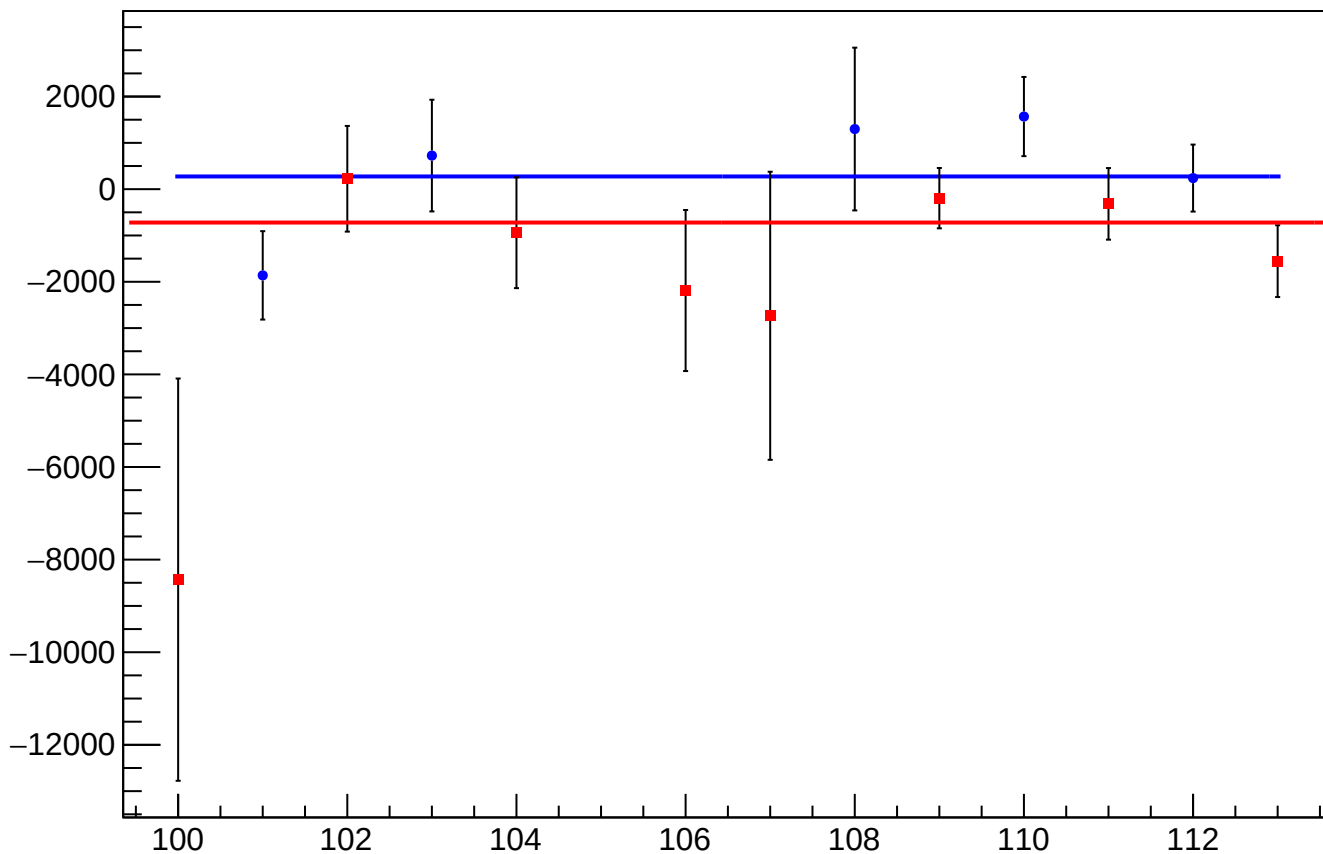
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 763.852 $\pm$ 0.224  $\chi^2$ /NDF: 5588.3/12

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

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



Right In: 274.391 $\pm$ 430.785  $\chi^2$ /NDF: 7.8/4

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

Right Out: -720.769 $\pm$ 361.656  $\chi^2$ /NDF: 7.1/7

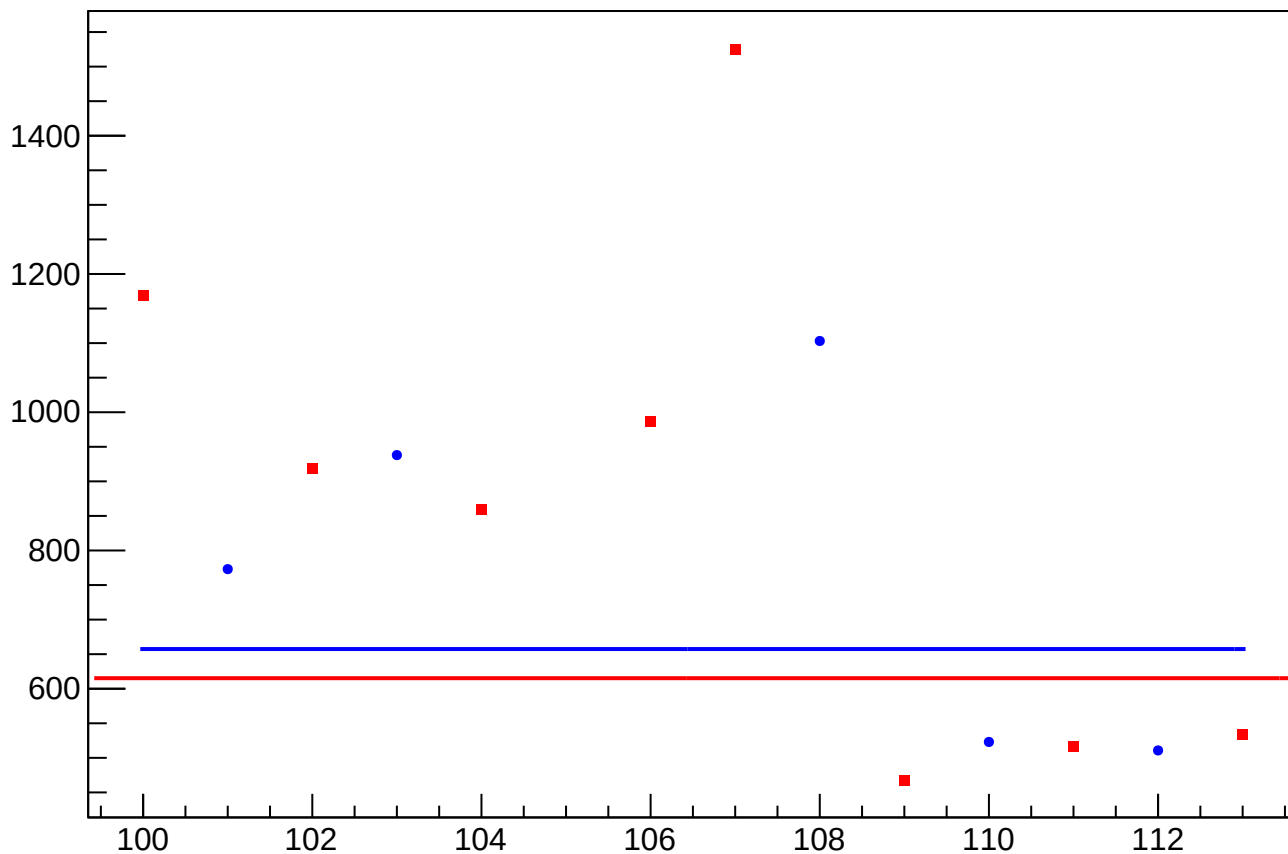
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -309.347 $\pm$ 276.986  $\chi^2$ /NDF: 18.0/12

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

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



Right In: 657.408 $\pm$ 0.305  $\chi^2$ /NDF: 397963.1/4

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

Right Out: 615.250 $\pm$ 0.256  $\chi^2$ /NDF: 677807.8/7

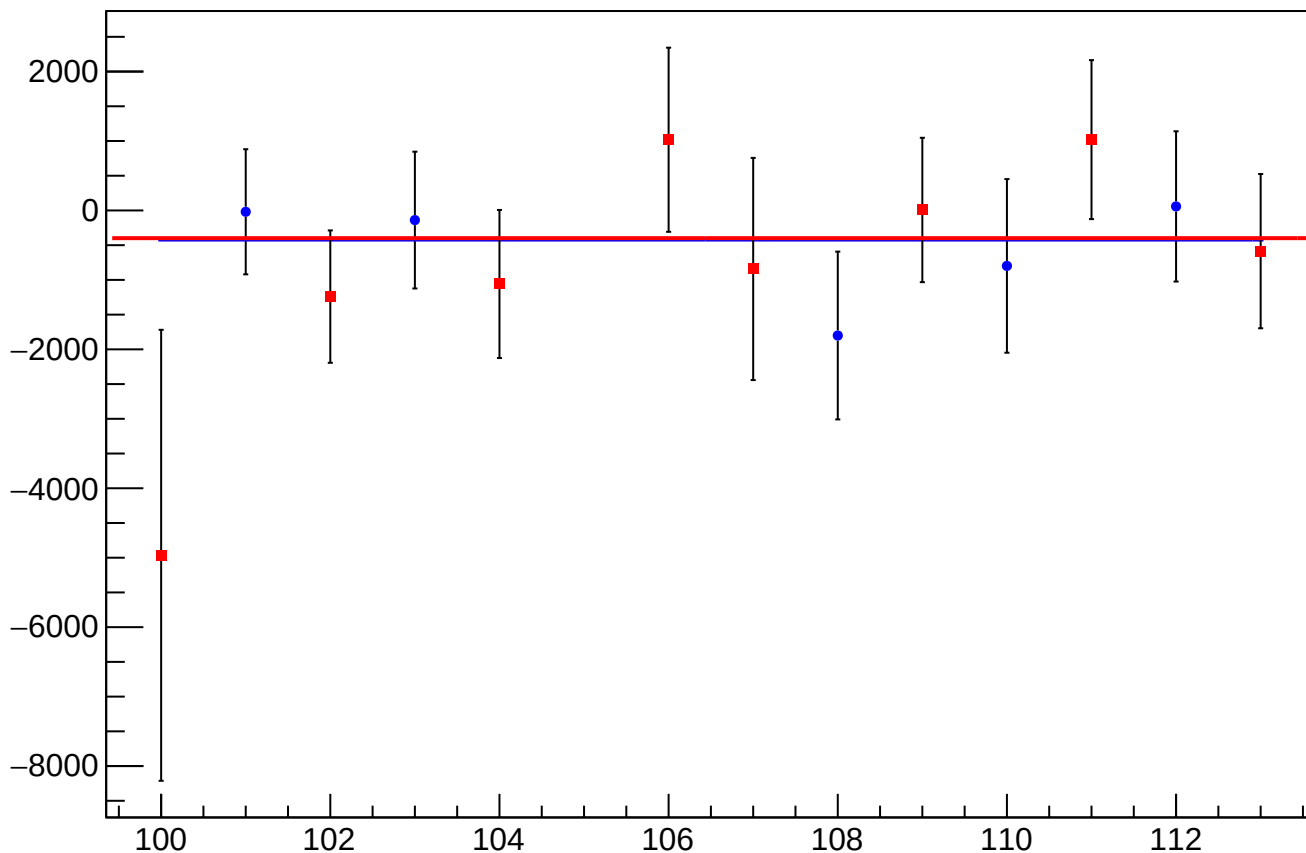
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 632.679 $\pm$ 0.196  $\chi^2$ /NDF: 1087006.4/12

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

# overload\_cor\_asym\_us\_dd\_mean vs Slug



Right In: -419.025+/-474.417  $\chi^2/\text{NDF}$ : 1.9/4

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

Right Out: -399.003+/-425.036  $\chi^2/\text{NDF}$ : 6.1/7

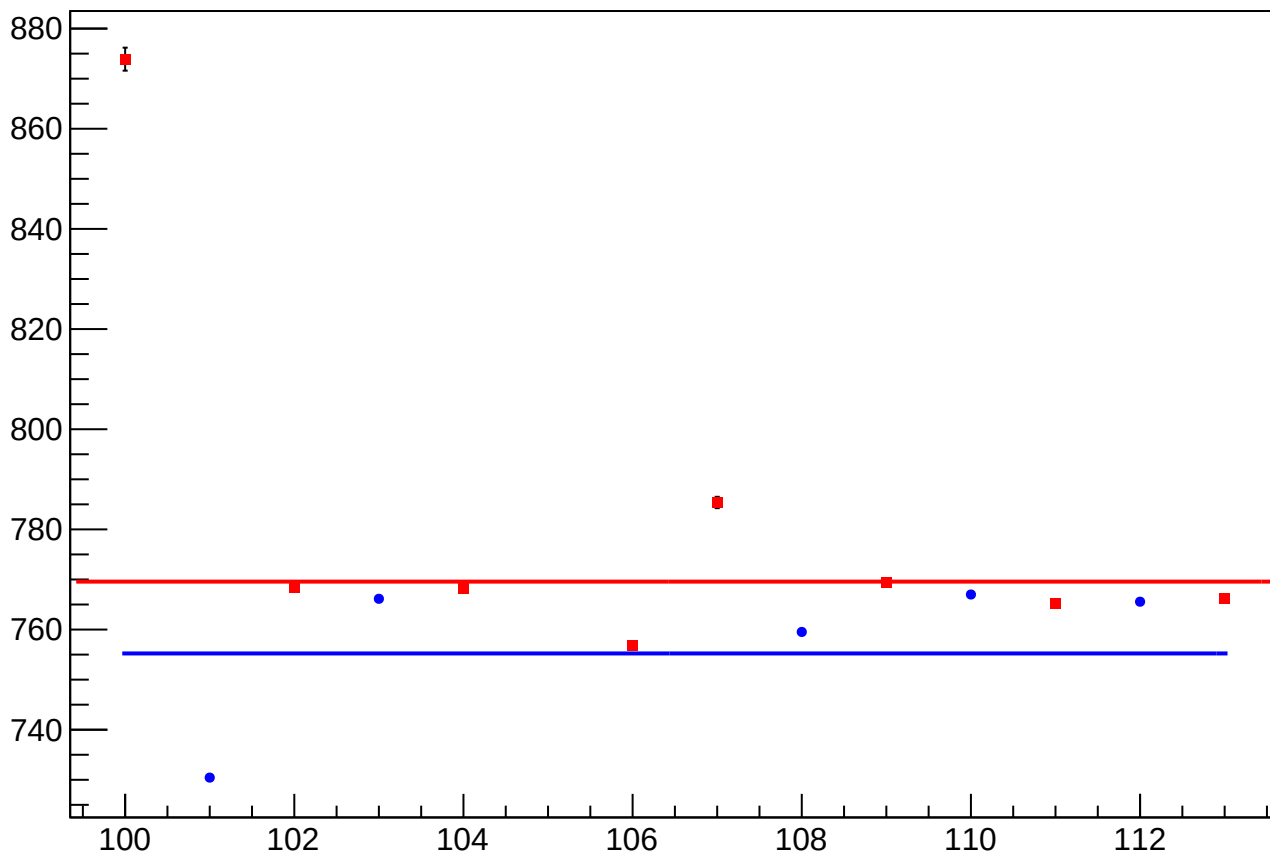
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -407.918+/-316.569  $\chi^2/\text{NDF}$ : 8.0/12

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

# overload\_cor\_asym\_us\_dd\_rms vs Slug



Right In: 755.230 $\pm$ 0.335  $\chi^2$ /NDF: 2145.5/4

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

Right Out: 769.574 $\pm$ 0.301  $\chi^2$ /NDF: 2500.2/7

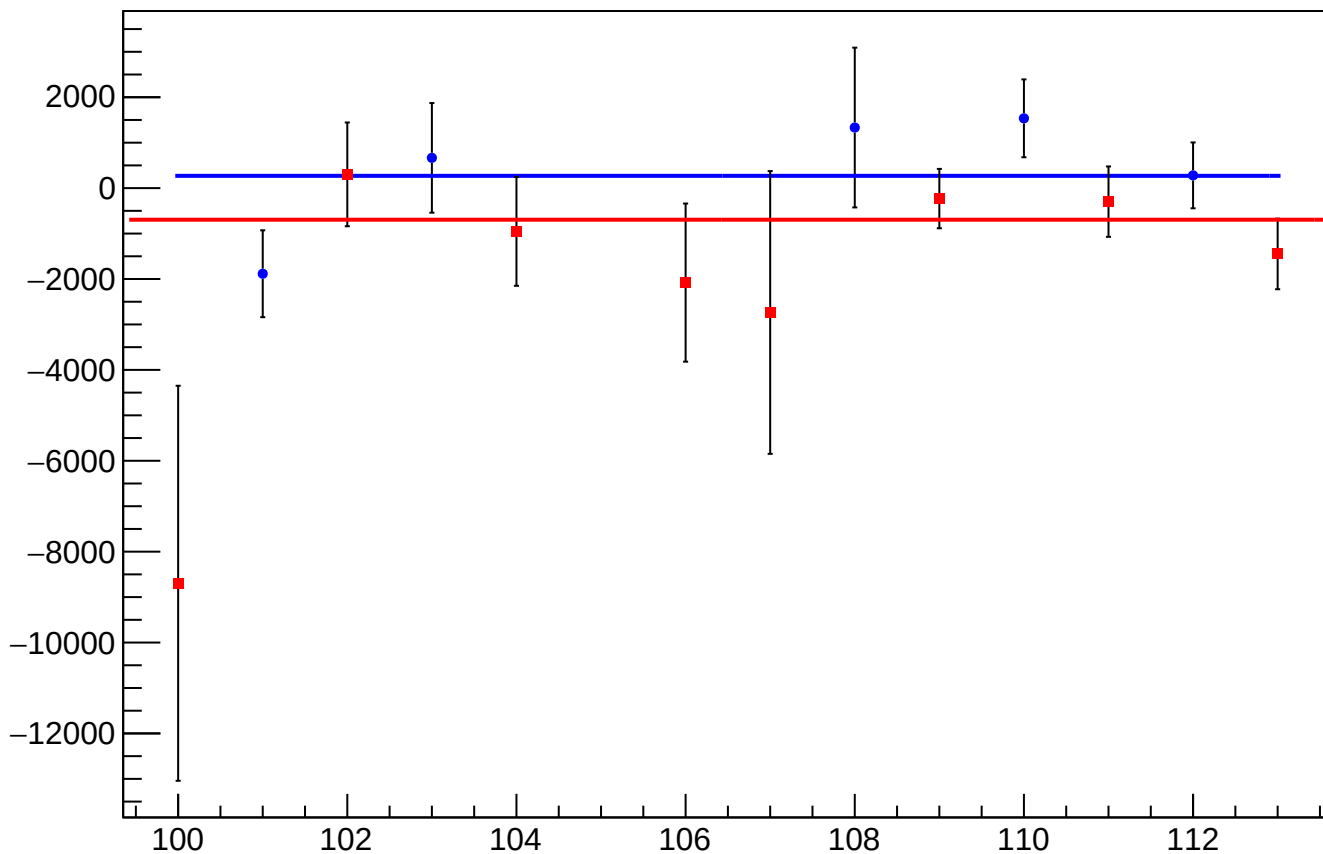
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 763.187 $\pm$ 0.224  $\chi^2$ /NDF: 5659.8/12

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

asym\_us\_dd\_overload\_cor\_correction\_mean vs Slug



Right In: 270.557+/-431.439  $\chi^2/\text{NDF}$ : 7.7/4

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

Right Out: -695.243+/-362.241  $\chi^2/\text{NDF}$ : 7.0/7

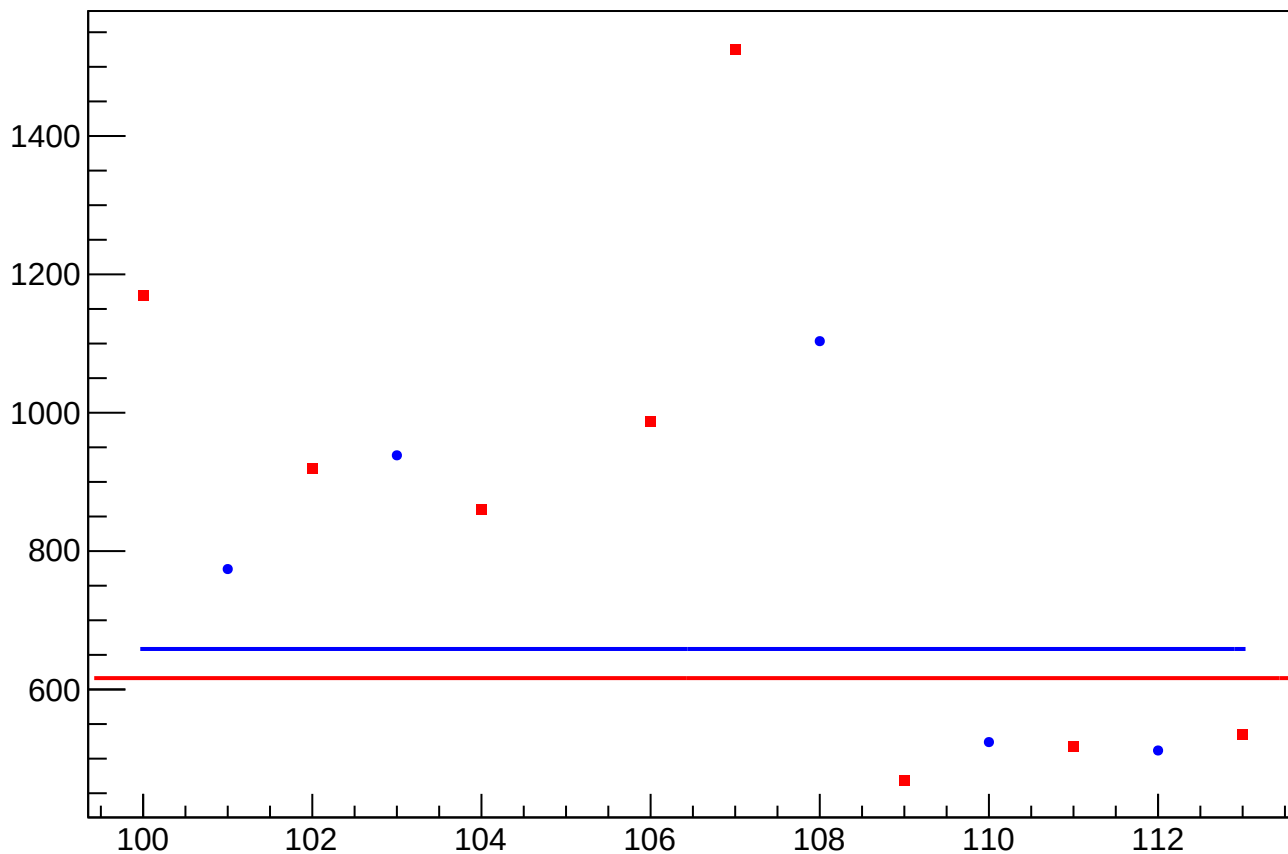
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -295.912+/-277.423  $\chi^2/\text{NDF}$ : 17.6/12

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

asym\_us\_dd\_overload\_cor\_correction\_rms vs Slug



Right In: 658.522 $\pm$ 0.305  $\chi^2$ /NDF: 396400.2/4

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

Right Out: 616.400 $\pm$ 0.256  $\chi^2$ /NDF: 675262.9/7

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

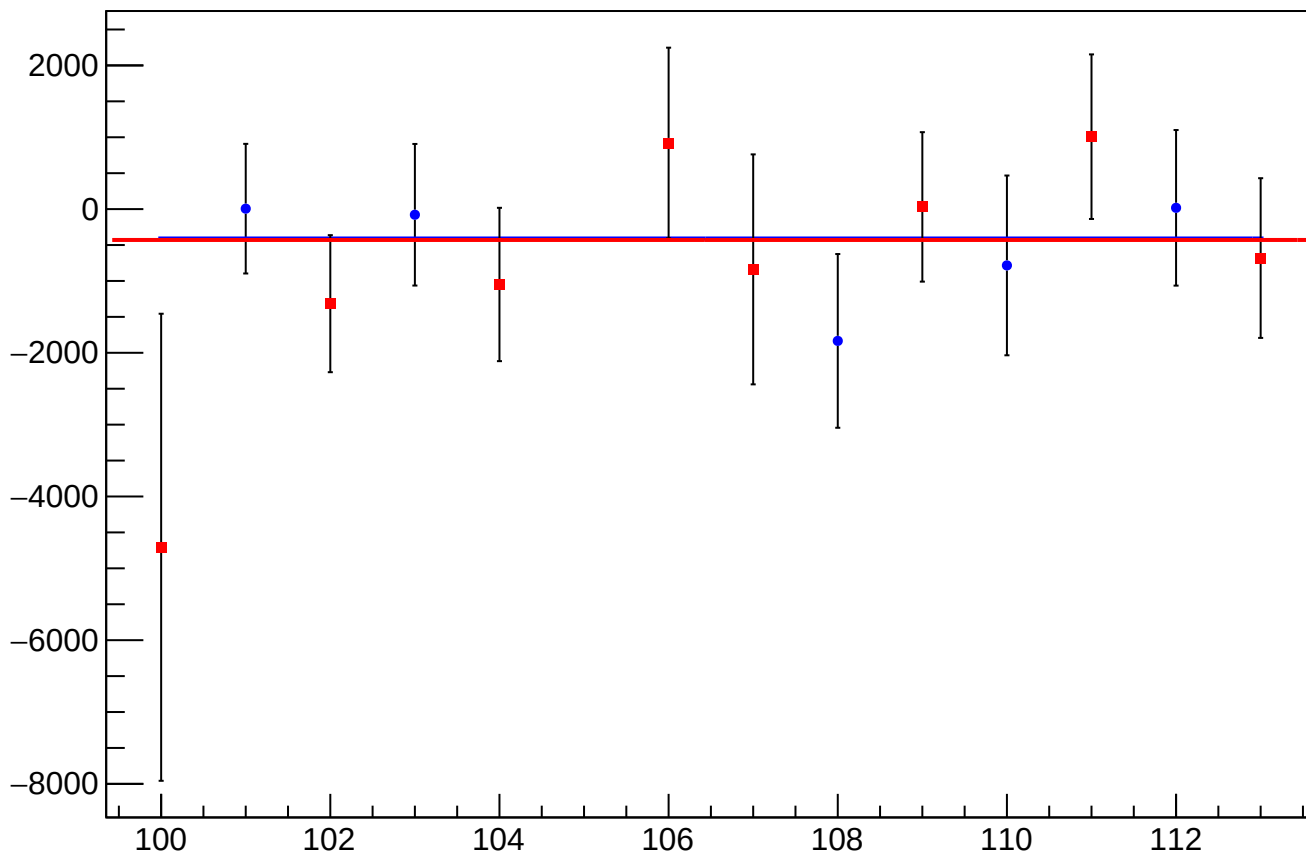
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 633.816 $\pm$ 0.196  $\chi^2$ /NDF: 1082844.3/12

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



# eigen\_cor\_asym\_us\_dd\_mean vs Slug



Right In: -409.010+/-474.874  $\chi^2$ /NDF: 2.0/4

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

Right Out: -429.467+/-425.372  $\chi^2$ /NDF: 5.9/7

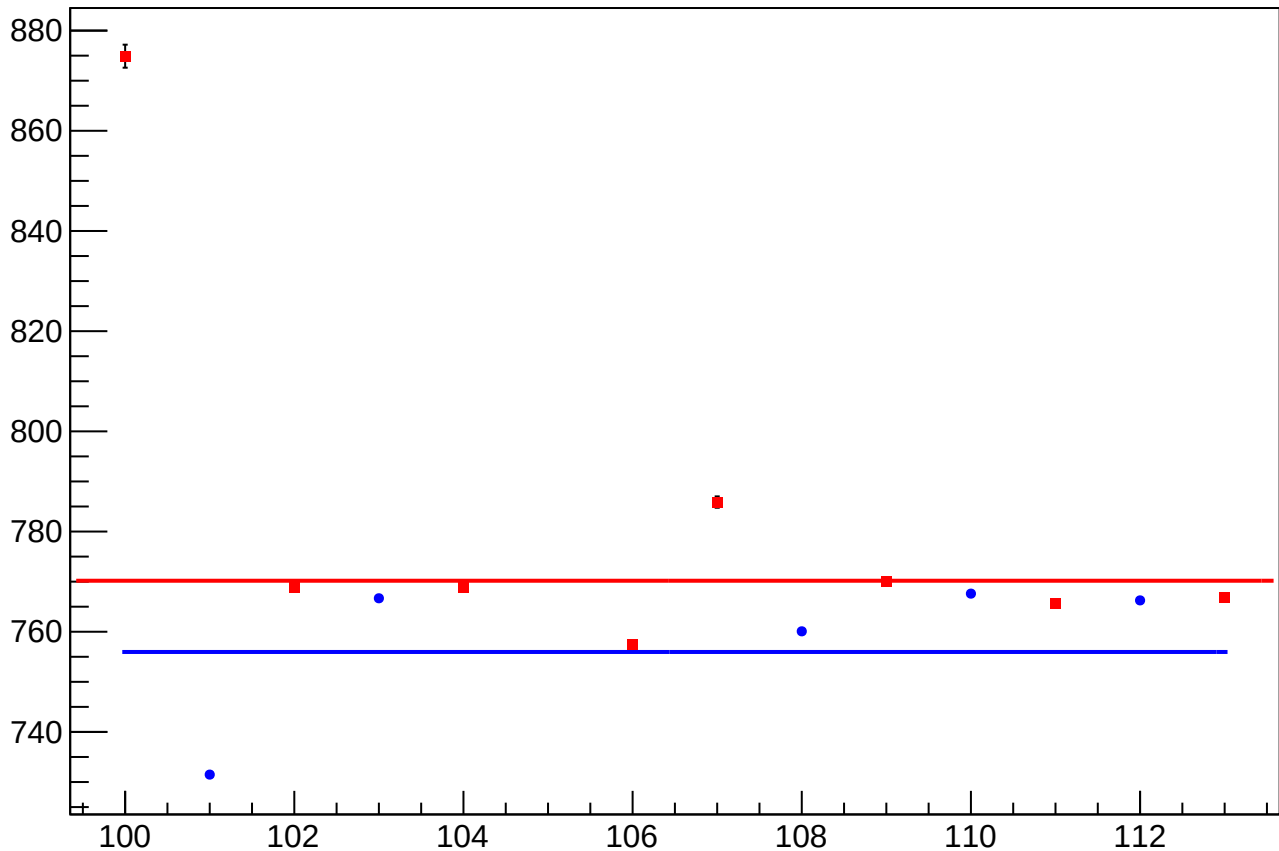
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -420.360+/-316.844  $\chi^2$ /NDF: 7.8/12

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

# eigen\_cor\_asym\_us\_dd\_rms vs Slug



Right In: 755.962 $\pm$ 0.336  $\chi^2$ /NDF: 2087.0/4

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

Right Out: 770.182 $\pm$ 0.301  $\chi^2$ /NDF: 2506.3/7

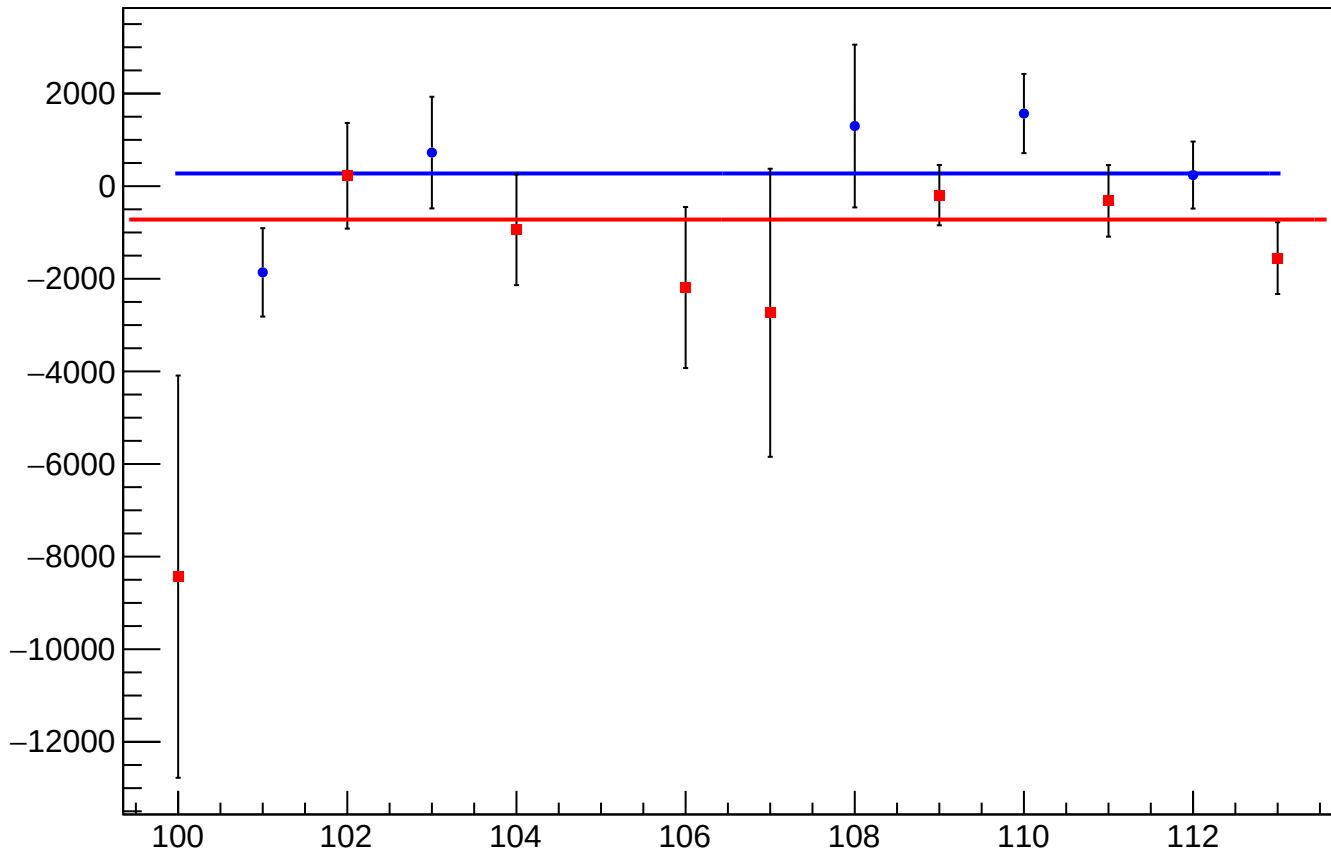
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 763.852 $\pm$ 0.224  $\chi^2$ /NDF: 5588.3/12

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

asym\_us\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 274.391+/-430.785  $\chi^2/\text{NDF}$ : 7.8/4

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

Right Out: -720.769+/-361.656  $\chi^2/\text{NDF}$ : 7.1/7

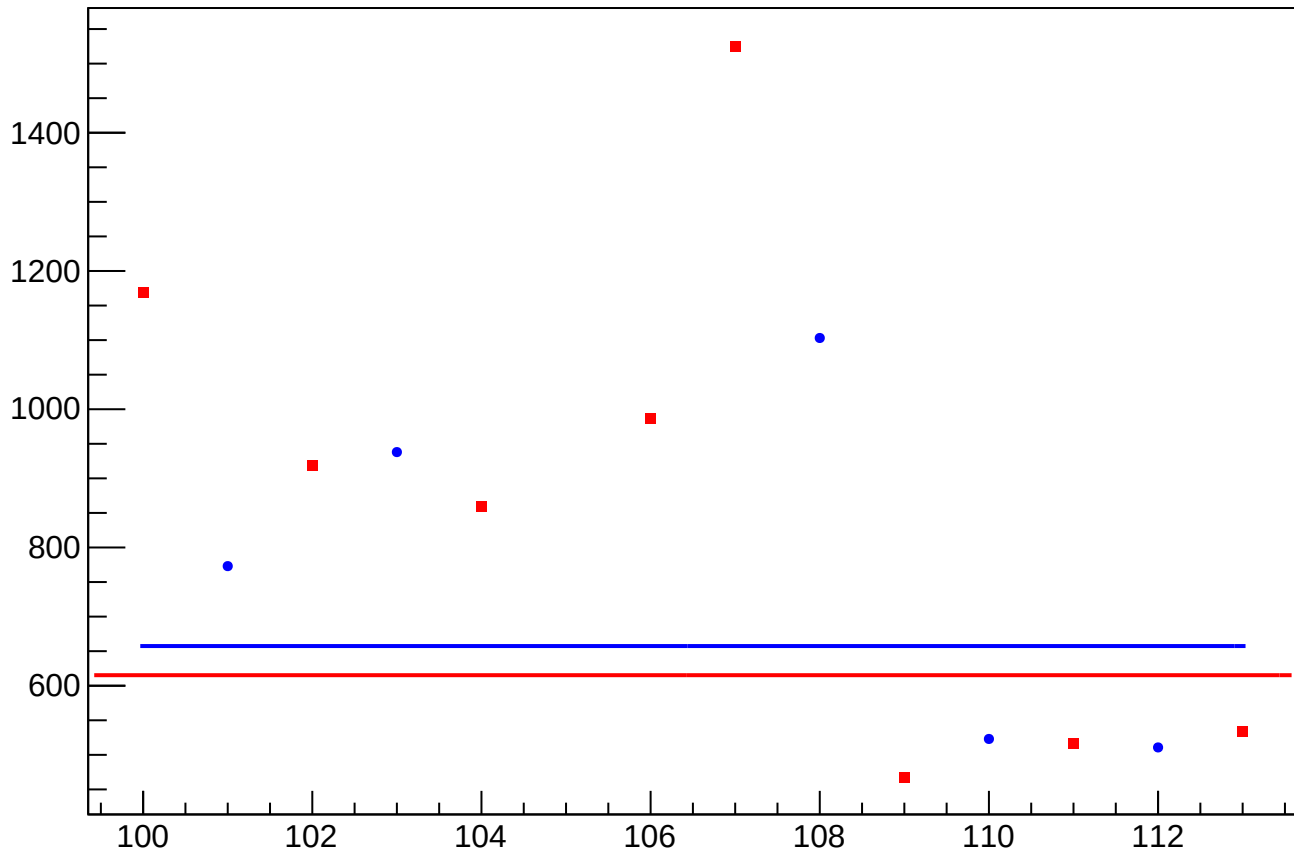
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -309.347+/-276.986  $\chi^2/\text{NDF}$ : 18.0/12

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

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



Right In: 657.408+/-0.305  $\chi^2/\text{NDF}$ : 397963.1/4

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

Right Out: 615.250+/-0.256  $\chi^2/\text{NDF}$ : 677807.8/7

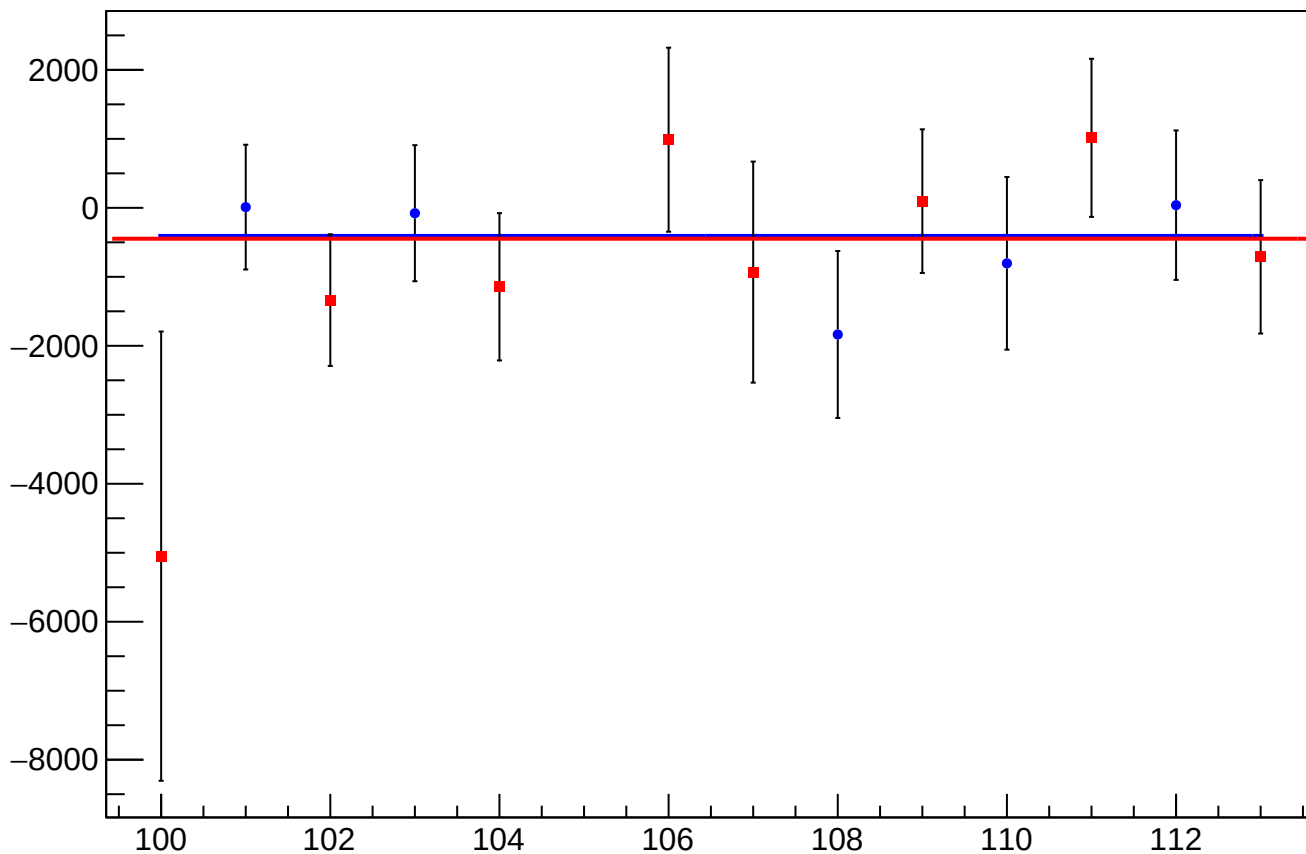
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 632.679+/-0.196  $\chi^2/\text{NDF}$ : 1087006.4/12

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

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



Right In: -407.108+/-475.443  $\chi^2/\text{NDF}$ : 2.0/4

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

Right Out: -447.500+/-425.904  $\chi^2/\text{NDF}$ : 6.5/7

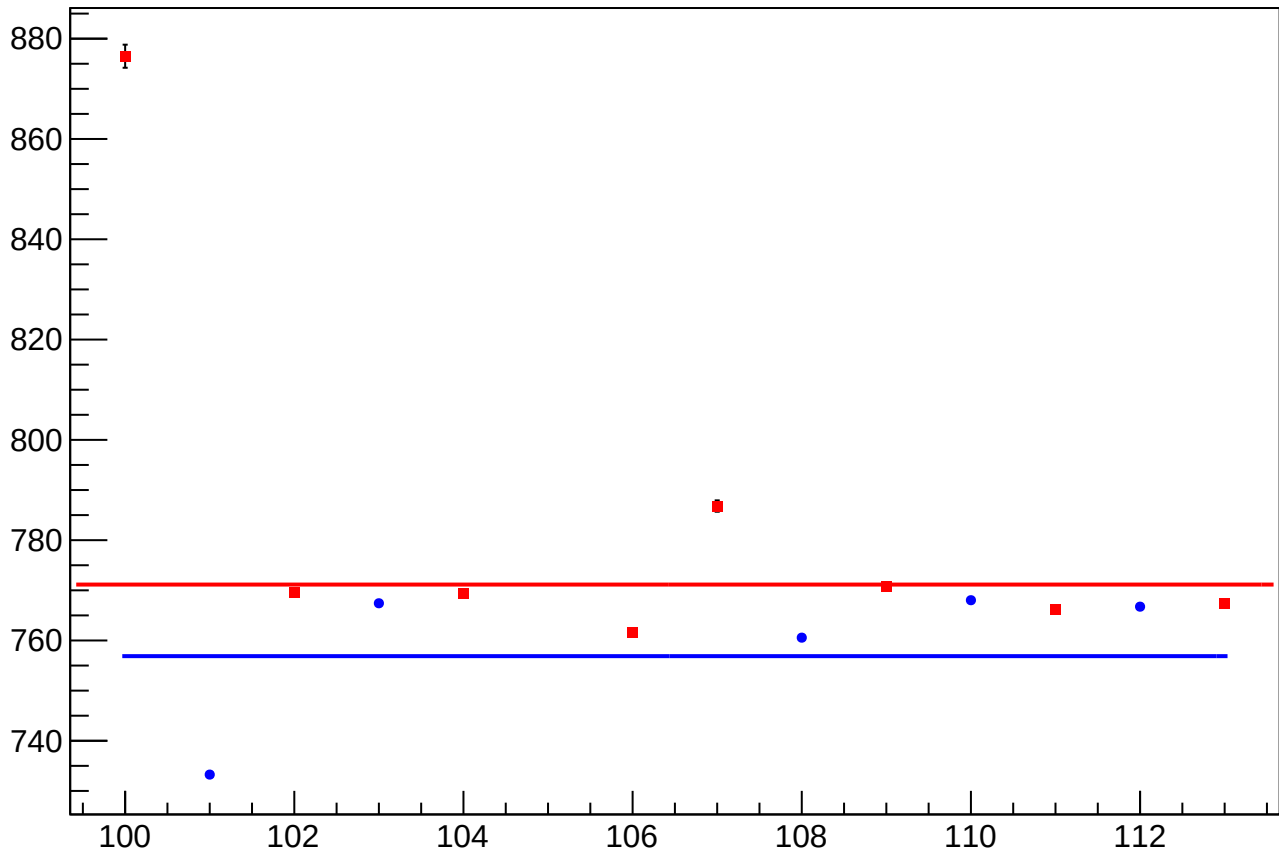
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -429.517+/-317.233  $\chi^2/\text{NDF}$ : 8.5/12

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

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



Right In: 756.876 $\pm$ 0.336  $\chi^2$ /NDF: 1936.1/4

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

Right Out: 771.149 $\pm$ 0.301  $\chi^2$ /NDF: 2460.5/7

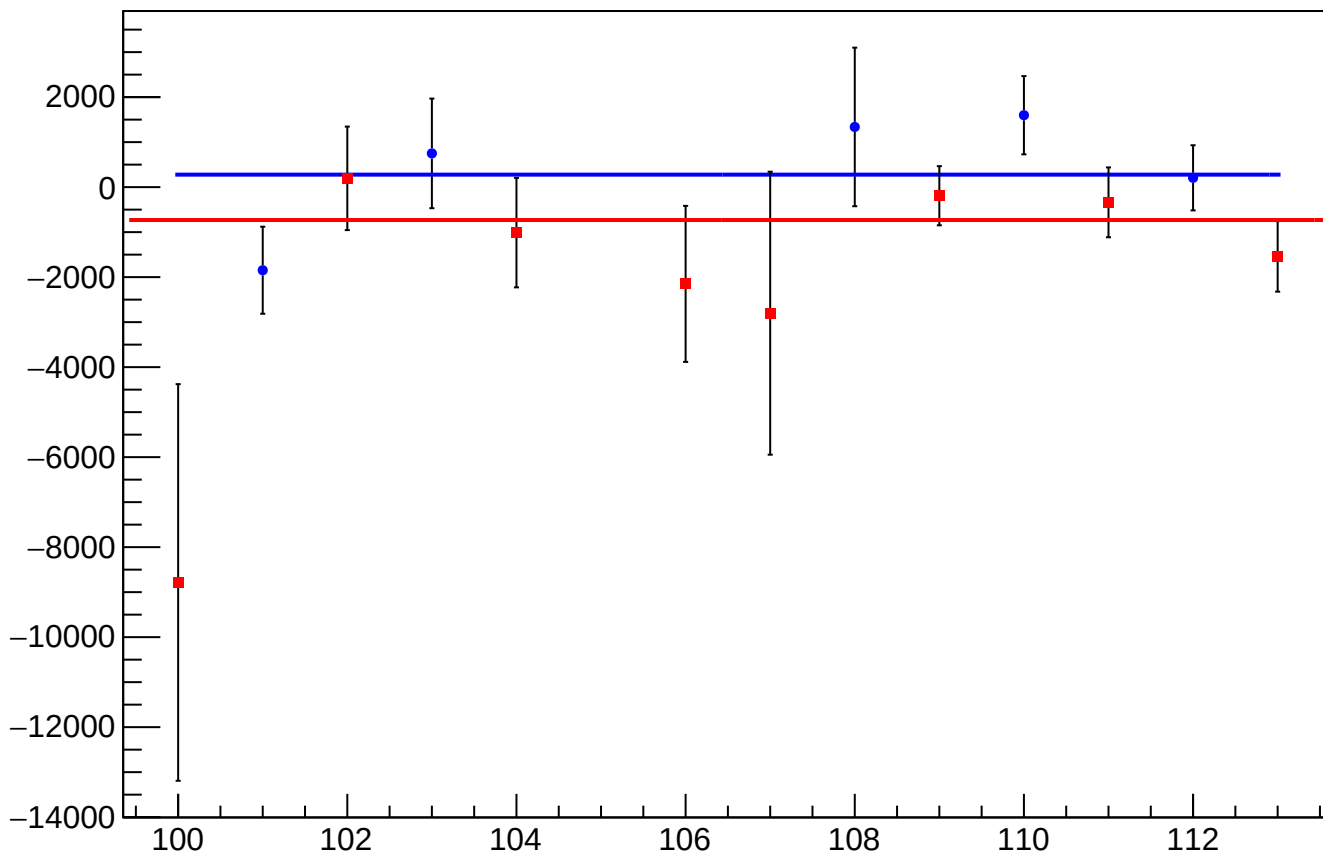
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 764.795 $\pm$ 0.224  $\chi^2$ /NDF: 5396.6/12

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

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



Right In: 277.773+/-434.527  $\chi^2/\text{NDF}$ : 7.7/4

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

Right Out: -730.732+/-364.704  $\chi^2/\text{NDF}$ : 7.1/7

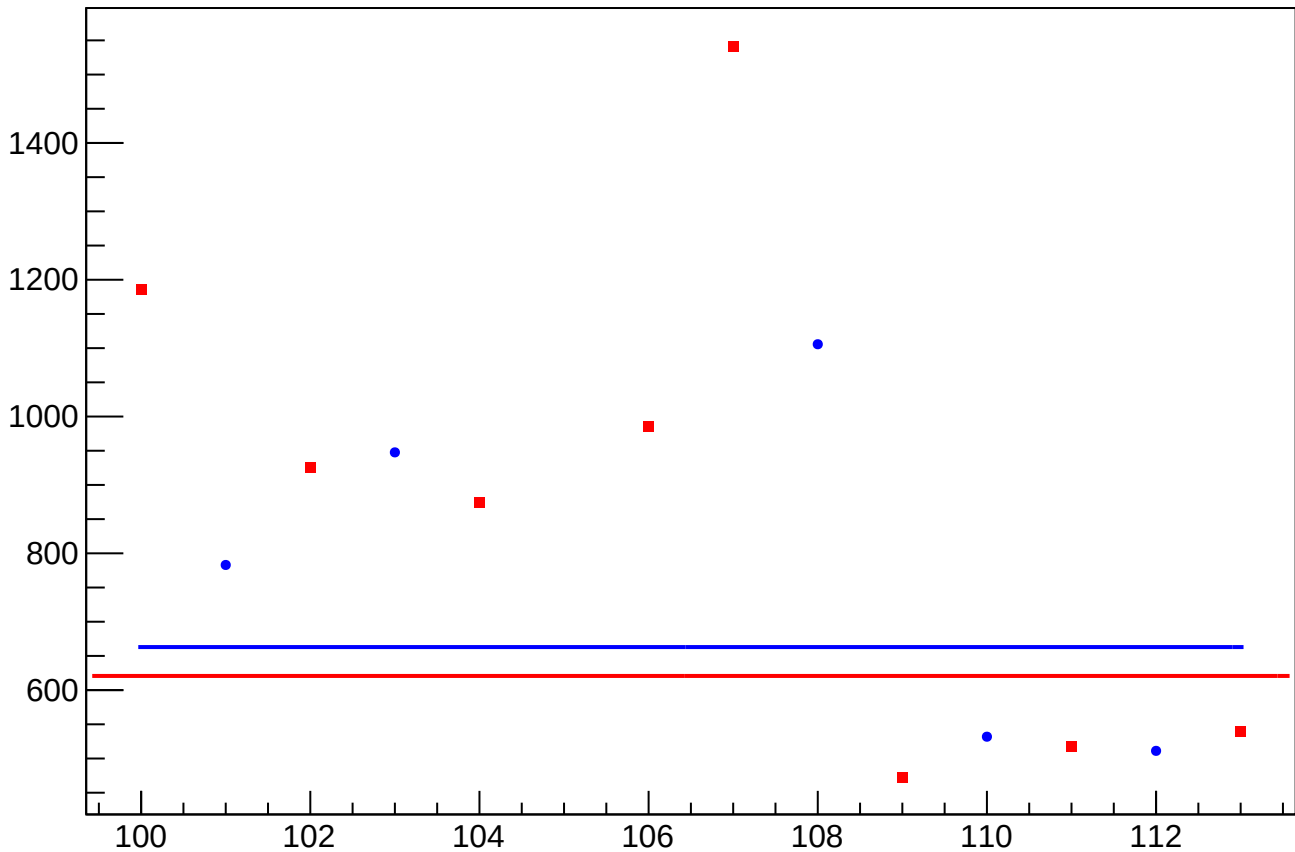
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -313.918+/-279.350  $\chi^2/\text{NDF}$ : 18.0/12

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

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



Right In: 662.949+/-0.307  $\chi^2/\text{NDF}$ : 399713.3/4

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

Right Out: 620.725+/-0.258  $\chi^2/\text{NDF}$ : 678978.9/7

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

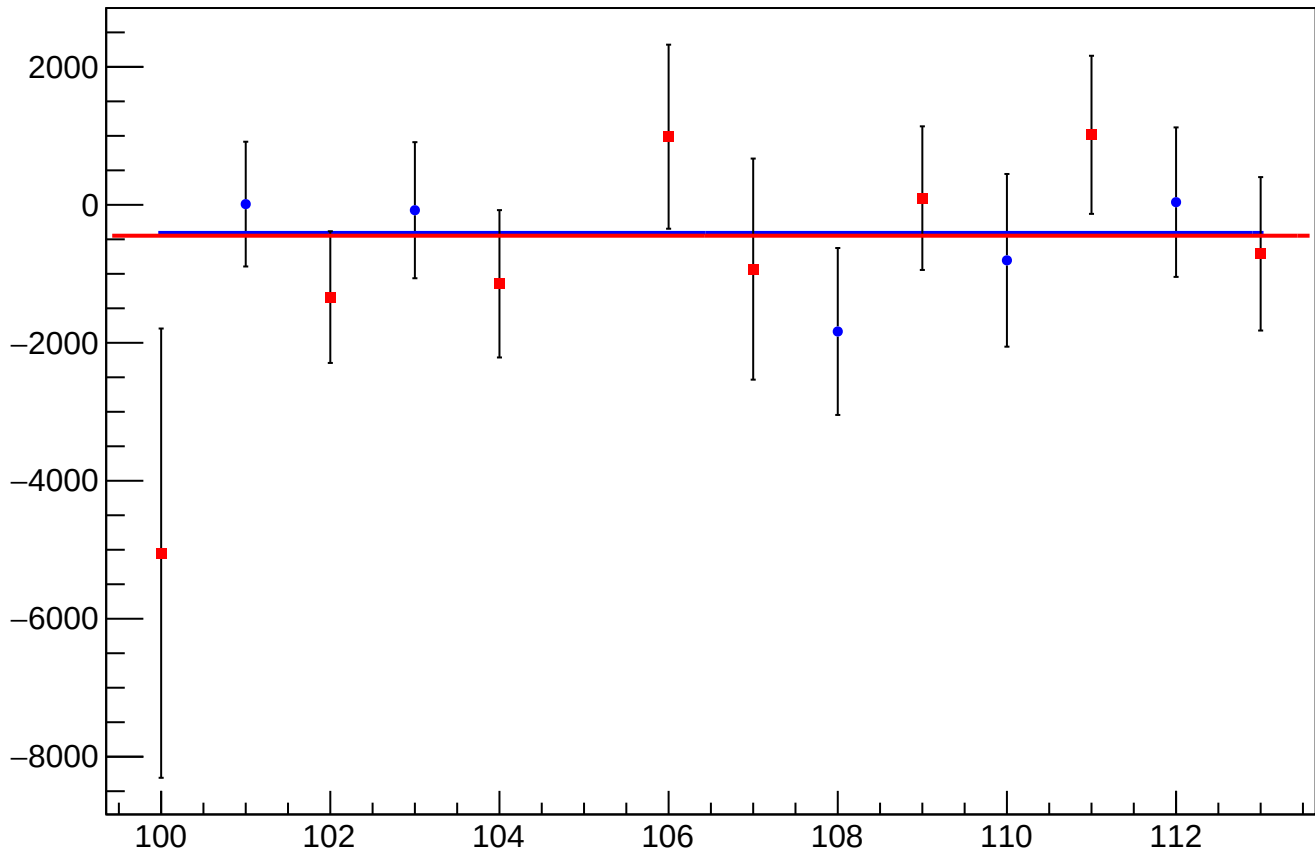
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 638.176+/-0.198  $\chi^2/\text{NDF}$ : 1089771.6/12

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



# eigen\_dit\_asym\_us\_dd\_mean vs Slug



Right In: -407.109+/-475.443  $\chi^2/\text{NDF}$ : 2.0/4

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

Right Out: -447.497+/-425.904  $\chi^2/\text{NDF}$ : 6.5/7

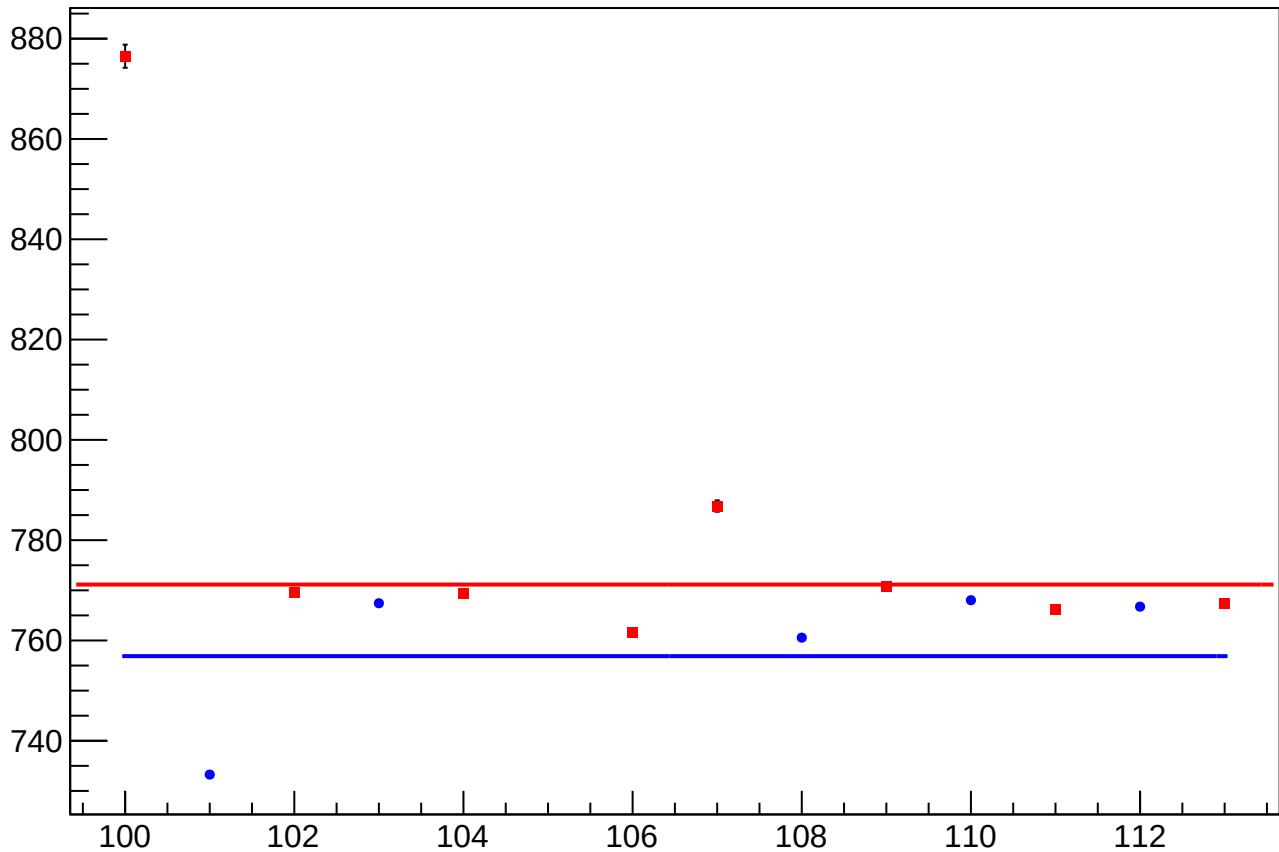
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -429.516+/-317.233  $\chi^2/\text{NDF}$ : 8.5/12

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

# eigen\_dit\_asym\_us\_dd\_rms vs Slug



Right In: 756.876 $\pm$ 0.336  $\chi^2$ /NDF: 1936.1/4

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

Right Out: 771.149 $\pm$ 0.301  $\chi^2$ /NDF: 2460.5/7

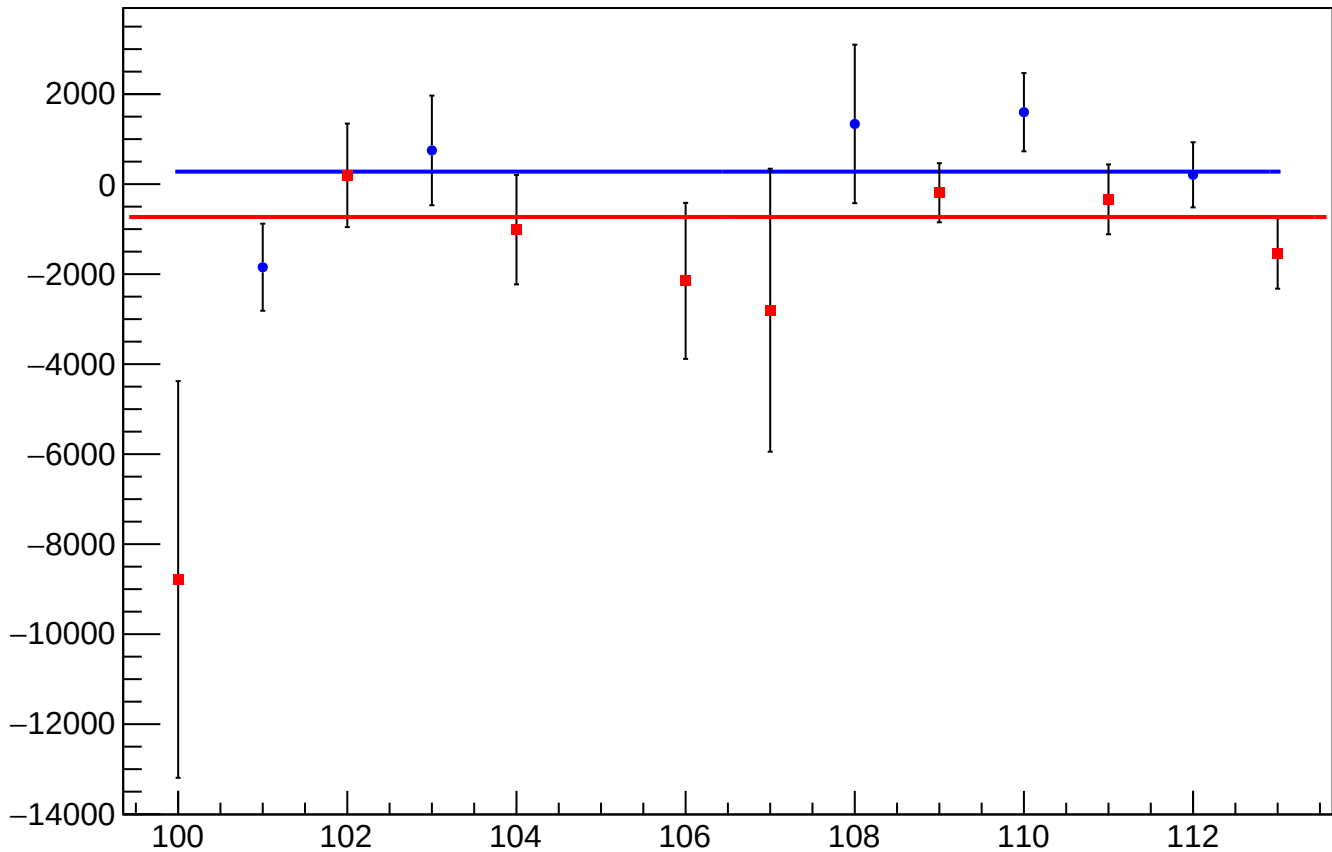
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 764.795 $\pm$ 0.224  $\chi^2$ /NDF: 5396.6/12

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

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



Right In: 277.773 $\pm$ 434.524  $\chi^2$ /NDF: 7.7/4

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

Right Out: -730.729 $\pm$ 364.702  $\chi^2$ /NDF: 7.1/7

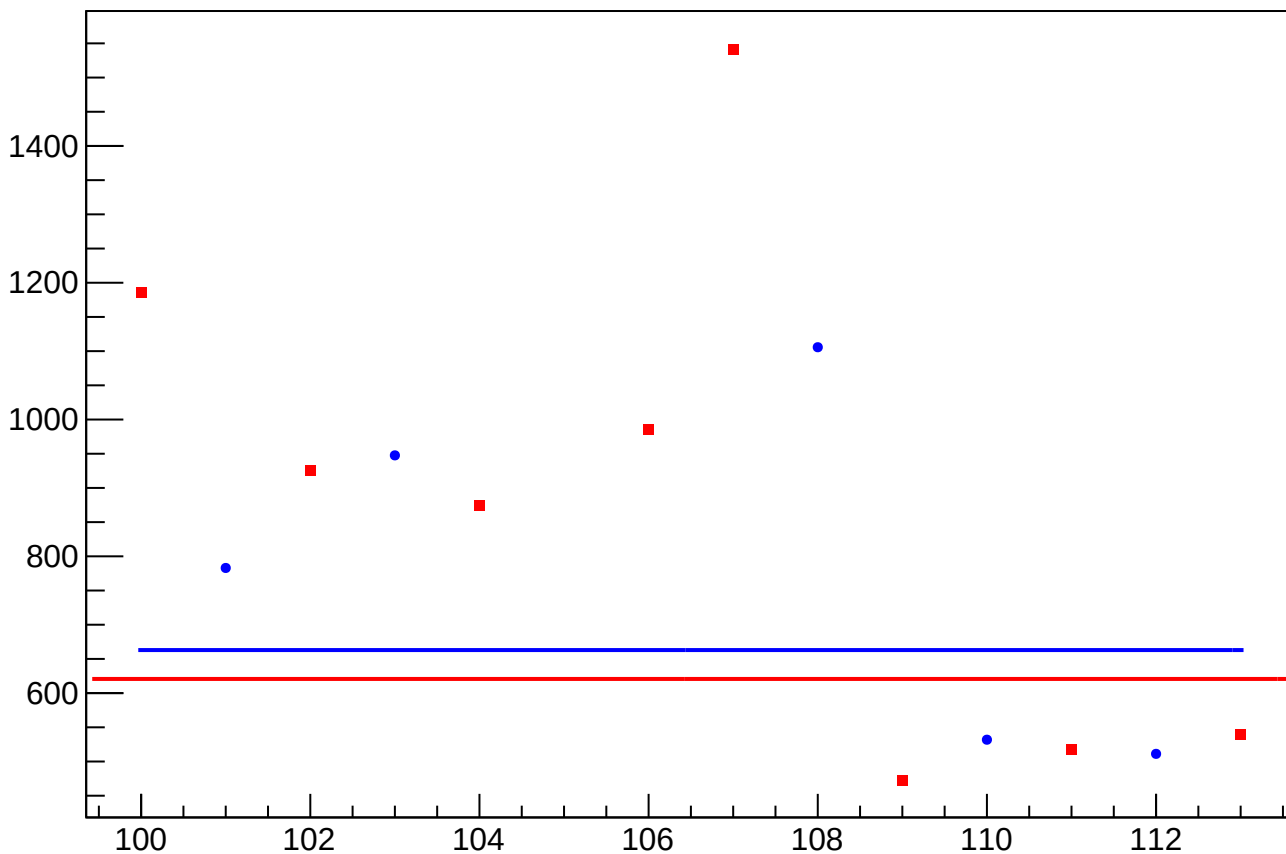
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -313.916 $\pm$ 279.349  $\chi^2$ /NDF: 18.0/12

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

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



Right In: 662.944 $\pm$ 0.307  $\chi^2$ /NDF: 399727.0/4

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

Right Out: 620.721 $\pm$ 0.258  $\chi^2$ /NDF: 678994.7/7

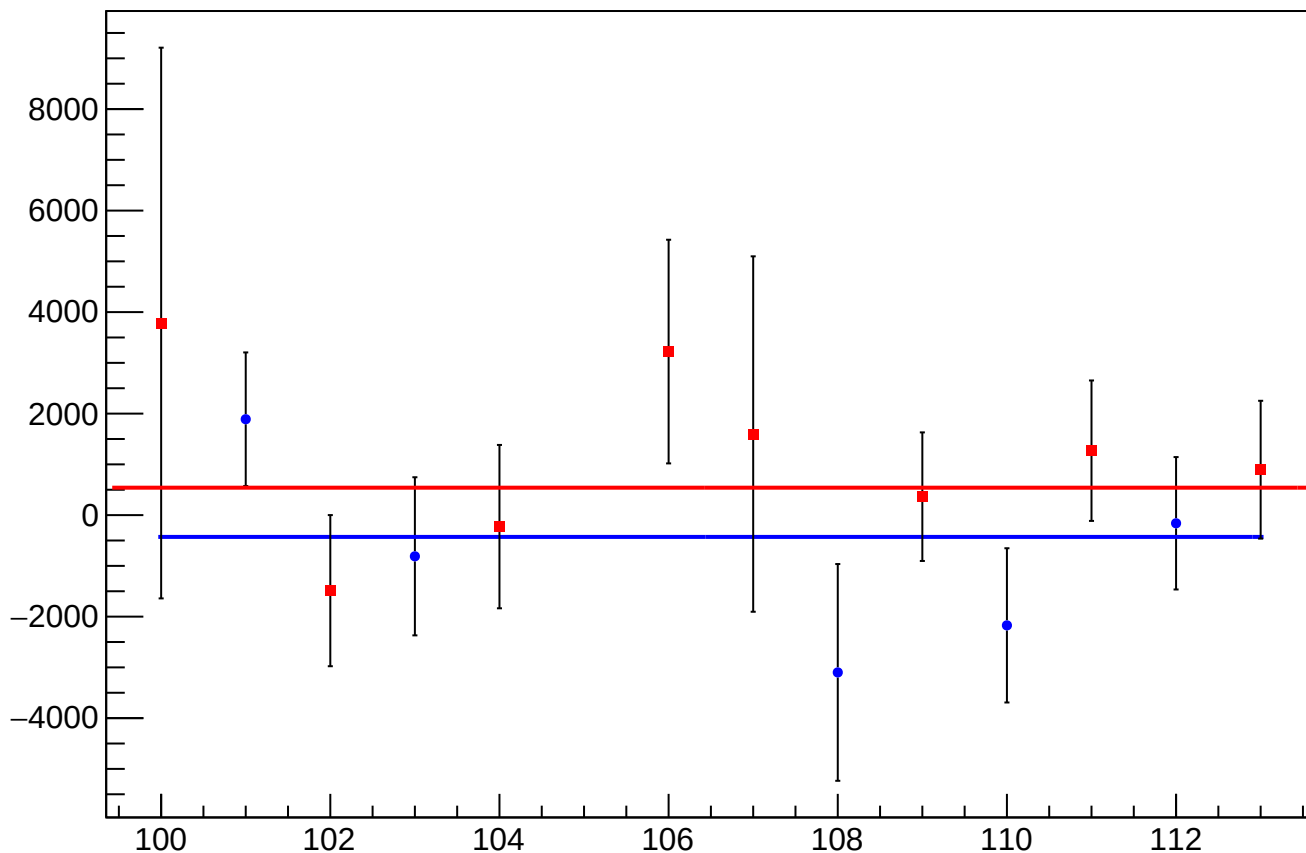
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 638.172 $\pm$ 0.198  $\chi^2$ /NDF: 1089800.9/12

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

# asym\_us\_dd\_mean vs Slug



Right In: -429.254 $\pm$ 669.650  $\chi^2$ /NDF: 6.1/4

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

Right Out: 540.630 $\pm$ 592.678  $\chi^2$ /NDF: 4.4/7

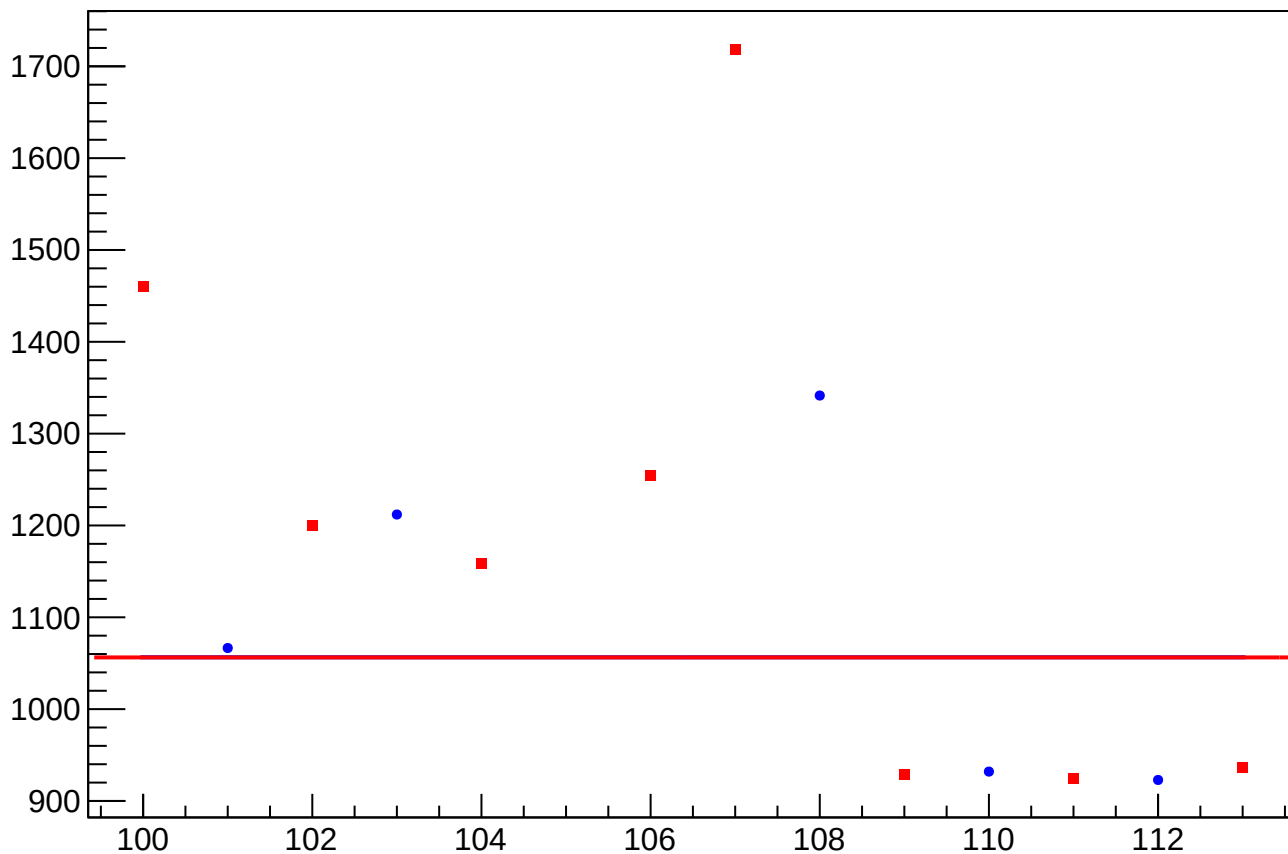
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 114.609 $\pm$ 443.817  $\chi^2$ /NDF: 11.6/12

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

# asym\_us\_dd\_rms vs Slug



Right In: 1056.452 $\pm$ 0.474  $\chi^2$ /NDF: 90072.3/4

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

Right Out: 1056.305 $\pm$ 0.419  $\chi^2$ /NDF: 179149.3/7

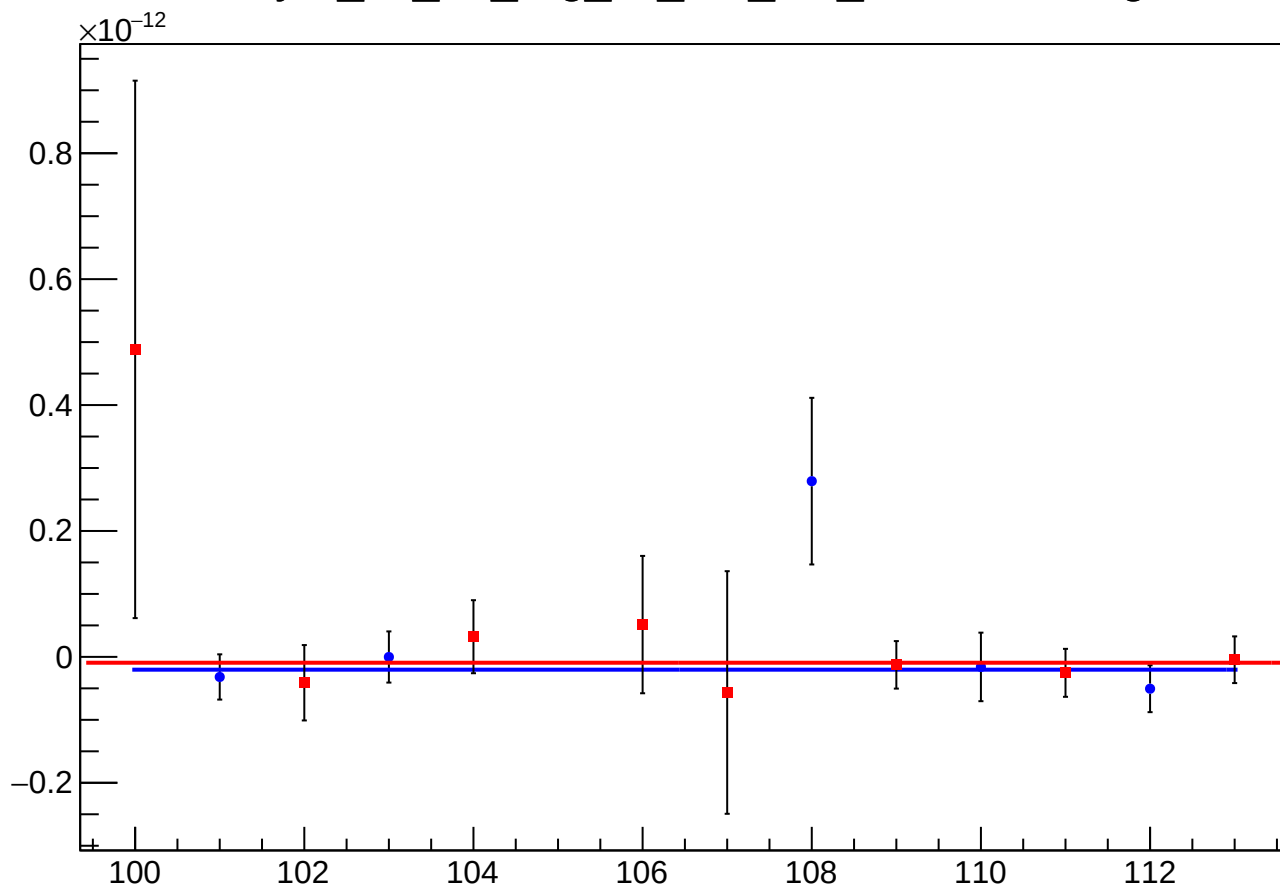
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1056.369 $\pm$ 0.314  $\chi^2$ /NDF: 269221.6/12

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

# asym\_us\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.1/4

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

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.7/7

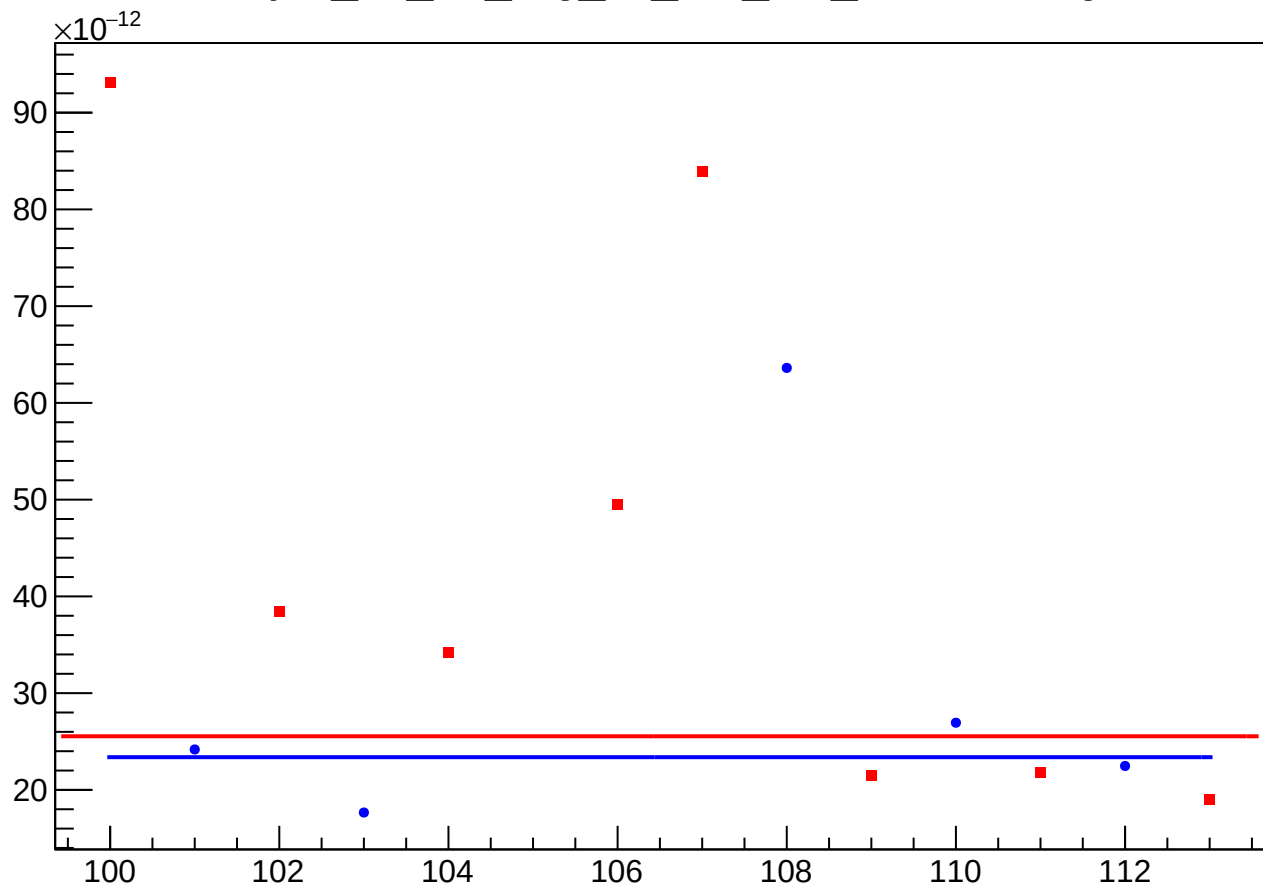
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.0/12

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

# asym\_us\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 235225.8/4

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 569625.8/7

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

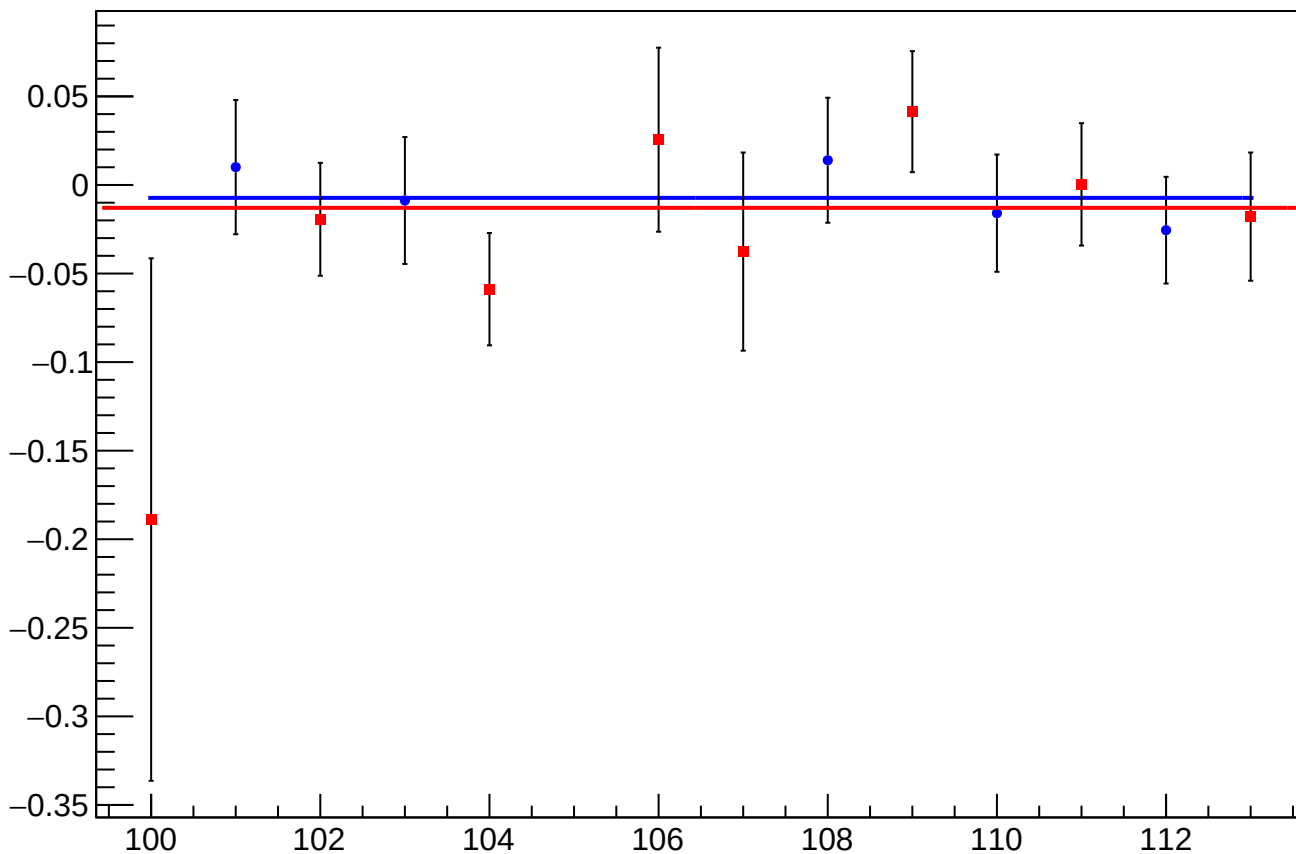
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 817171.4/12

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



# asym\_us\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.007 \pm 0.015$   $\chi^2/\text{NDF}$ : 1.0/4

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

Right Out:  $-0.013 \pm 0.014$   $\chi^2/\text{NDF}$ : 7.0/7

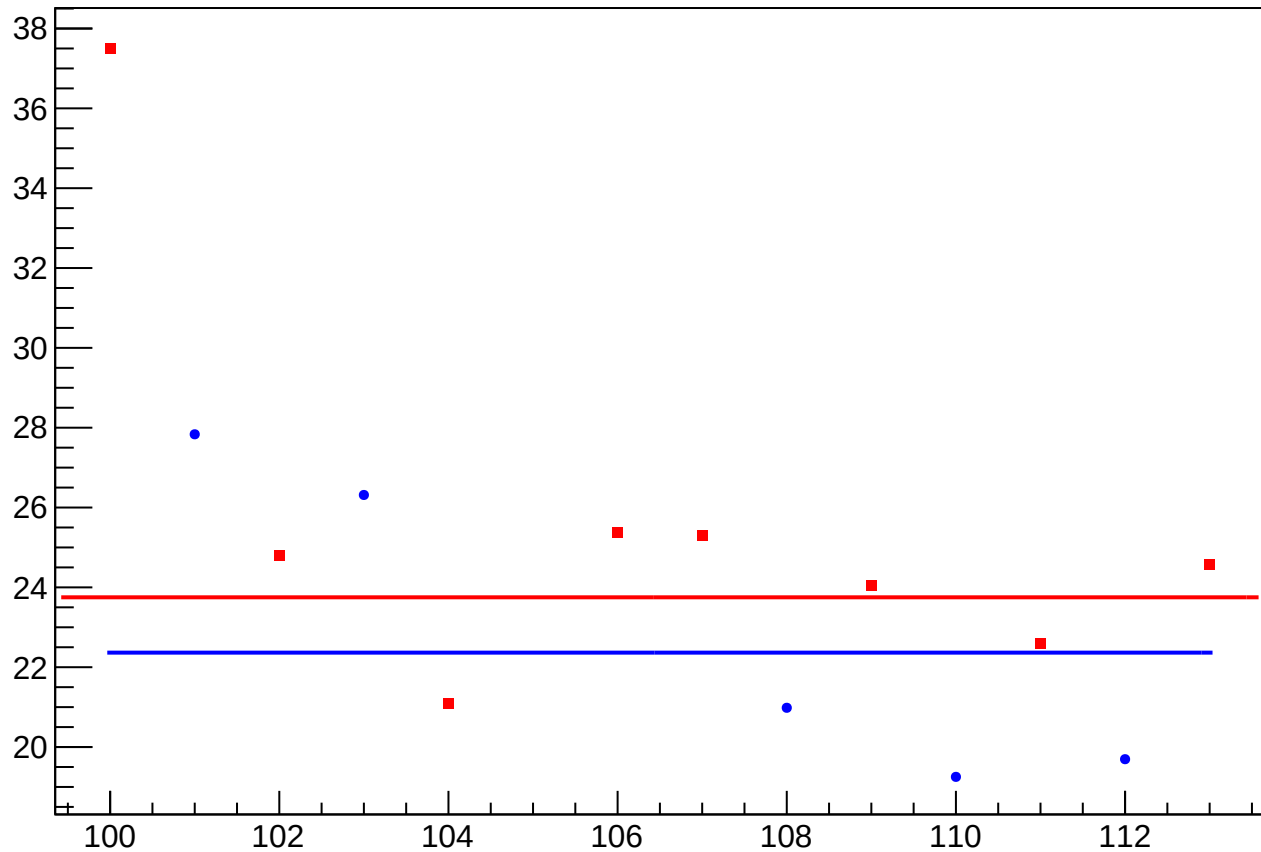
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.010 \pm 0.010$   $\chi^2/\text{NDF}$ : 8.1/12

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

# asym\_us\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 22.365+/-0.011  $\chi^2/\text{NDF}$ : 102494.3/4

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

Right Out: 23.751+/-0.010  $\chi^2/\text{NDF}$ : 40654.6/7

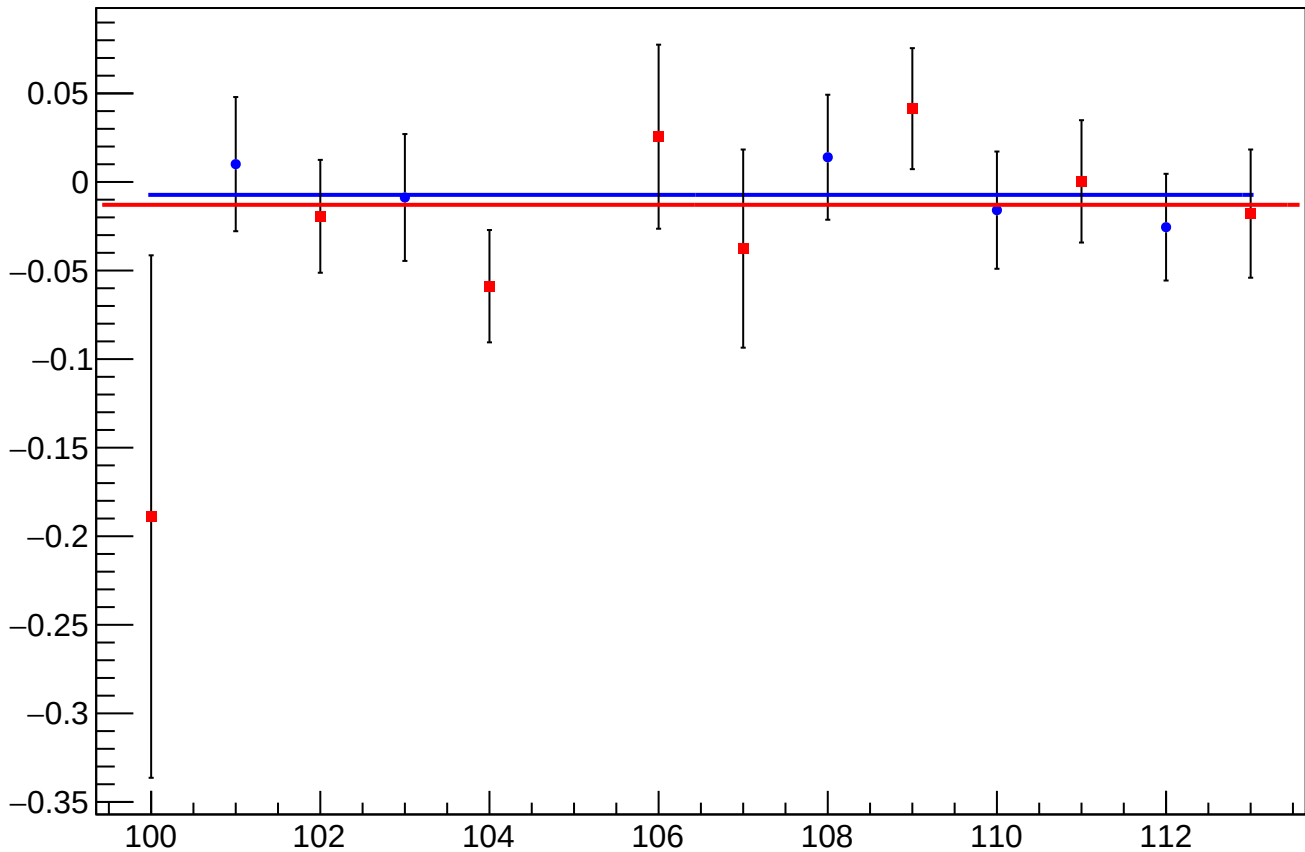
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 23.122+/-0.007  $\chi^2/\text{NDF}$ : 152164.4/12

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

asym\_us\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.007 \pm 0.015$   $\chi^2/\text{NDF}$ : 1.0/4

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

Right Out:  $-0.013 \pm 0.014$   $\chi^2/\text{NDF}$ : 7.0/7

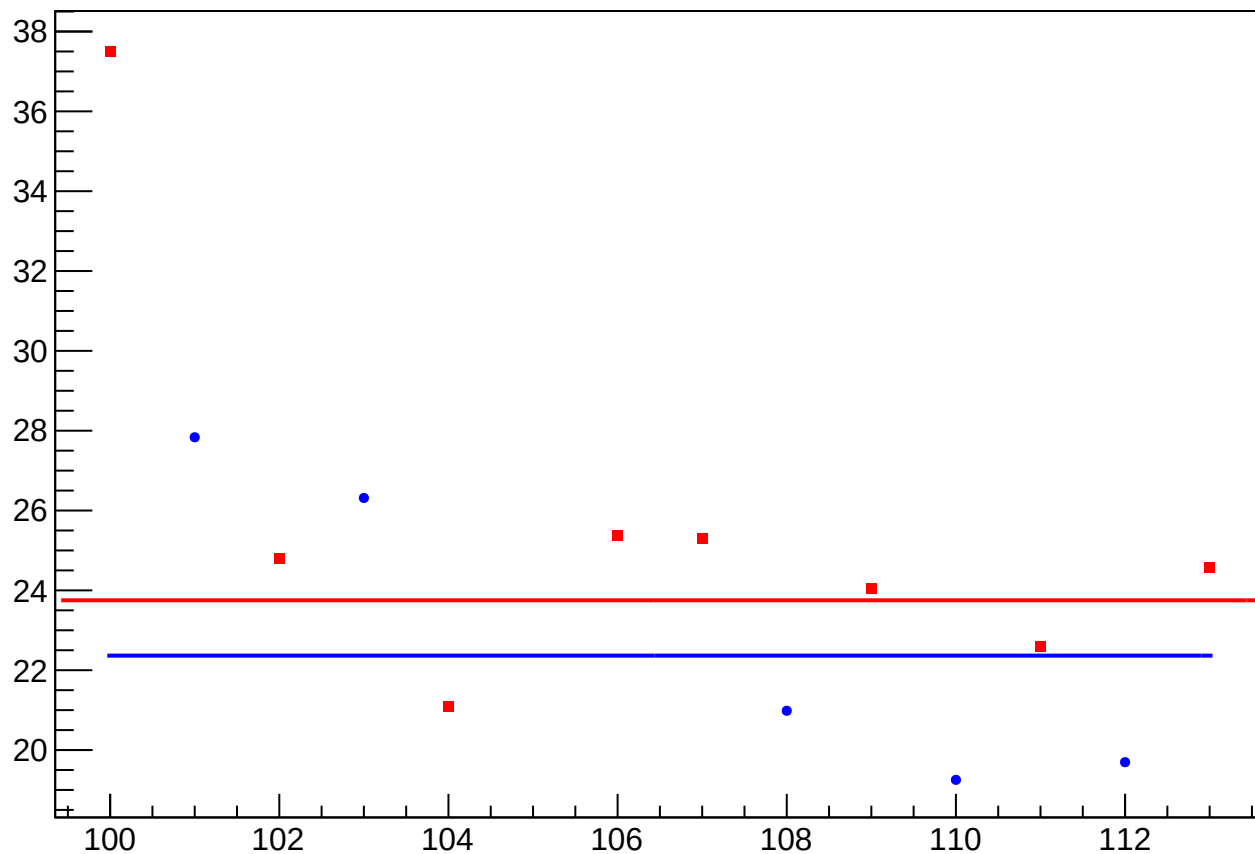
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.010 \pm 0.010$   $\chi^2/\text{NDF}$ : 8.1/12

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

# asym\_us\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 22.365+/-0.011  $\chi^2/\text{NDF}$ : 102494.3/4

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

Right Out: 23.751+/-0.010  $\chi^2/\text{NDF}$ : 40654.6/7

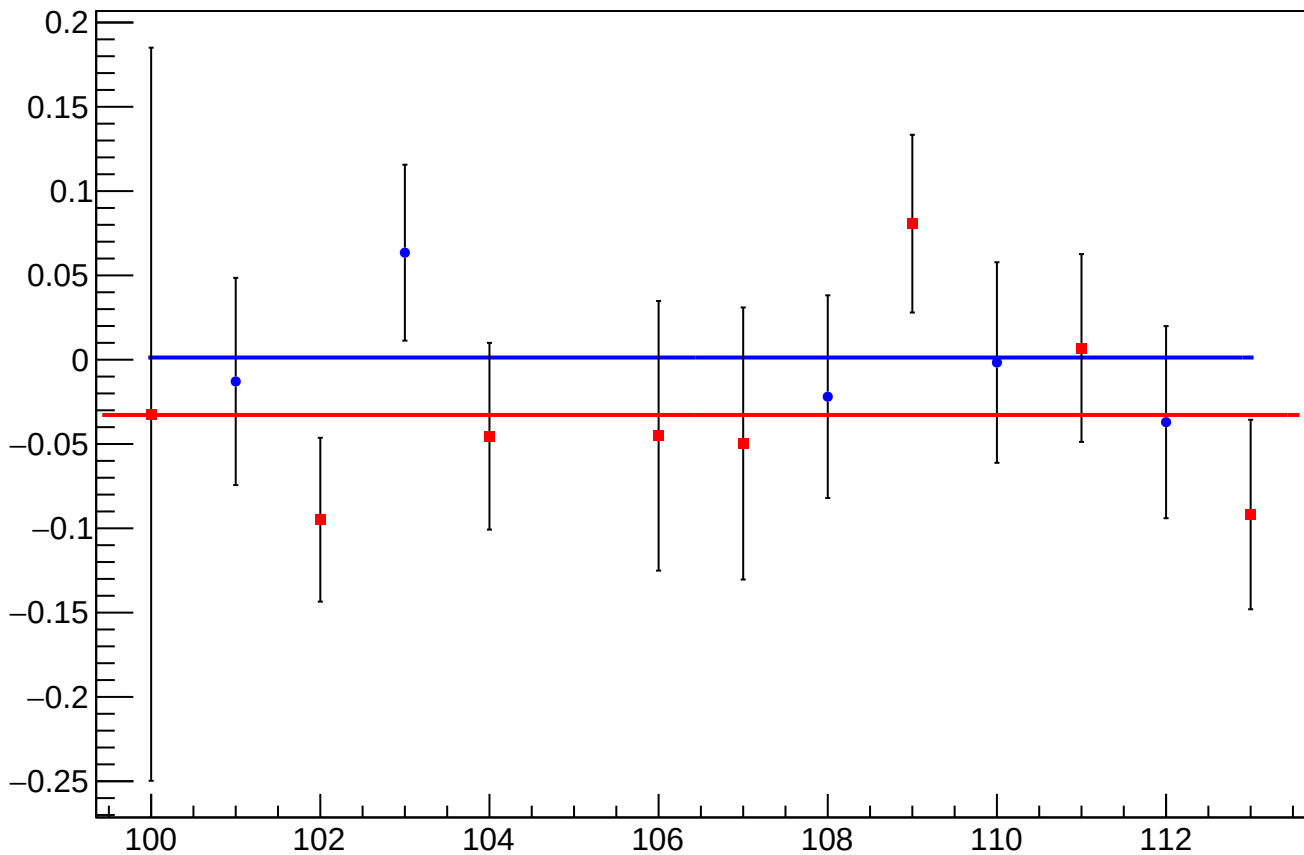
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 23.122+/-0.007  $\chi^2/\text{NDF}$ : 152164.4/12

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

asym\_us\_dd\_dit\_vs\_overload\_cor\_diff\_mean vs Slug



Right In: 0.001+/-0.026  $\chi^2/\text{NDF}$ : 2.1/4

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

Right Out: -0.033+/-0.022  $\chi^2/\text{NDF}$ : 8.0/7

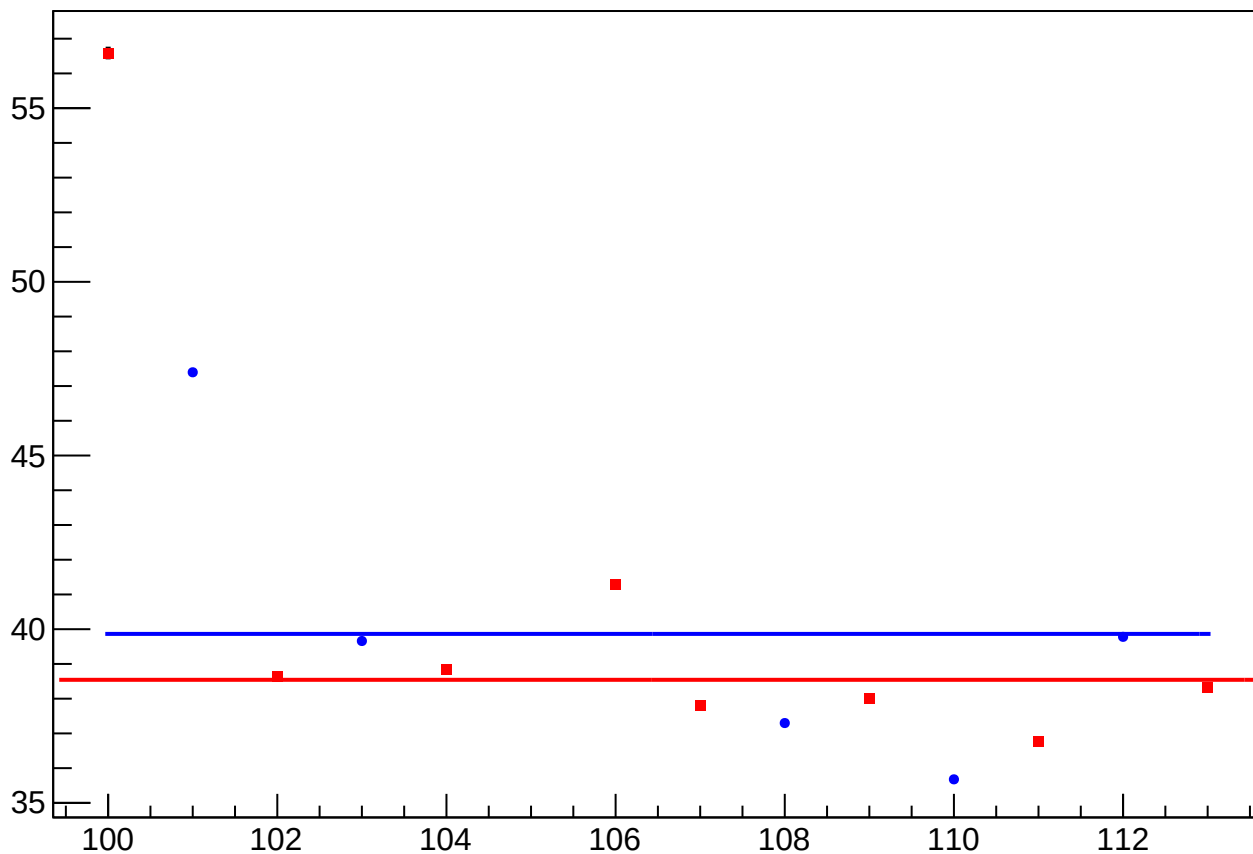
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.018+/-0.017  $\chi^2/\text{NDF}$ : 11.1/12

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

asym\_us\_dd\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In: 39.865+/-0.018  $\chi^2/\text{NDF}$ : 43640.2/4

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

Right Out: 38.543+/-0.016  $\chi^2/\text{NDF}$ : 18641.2/7

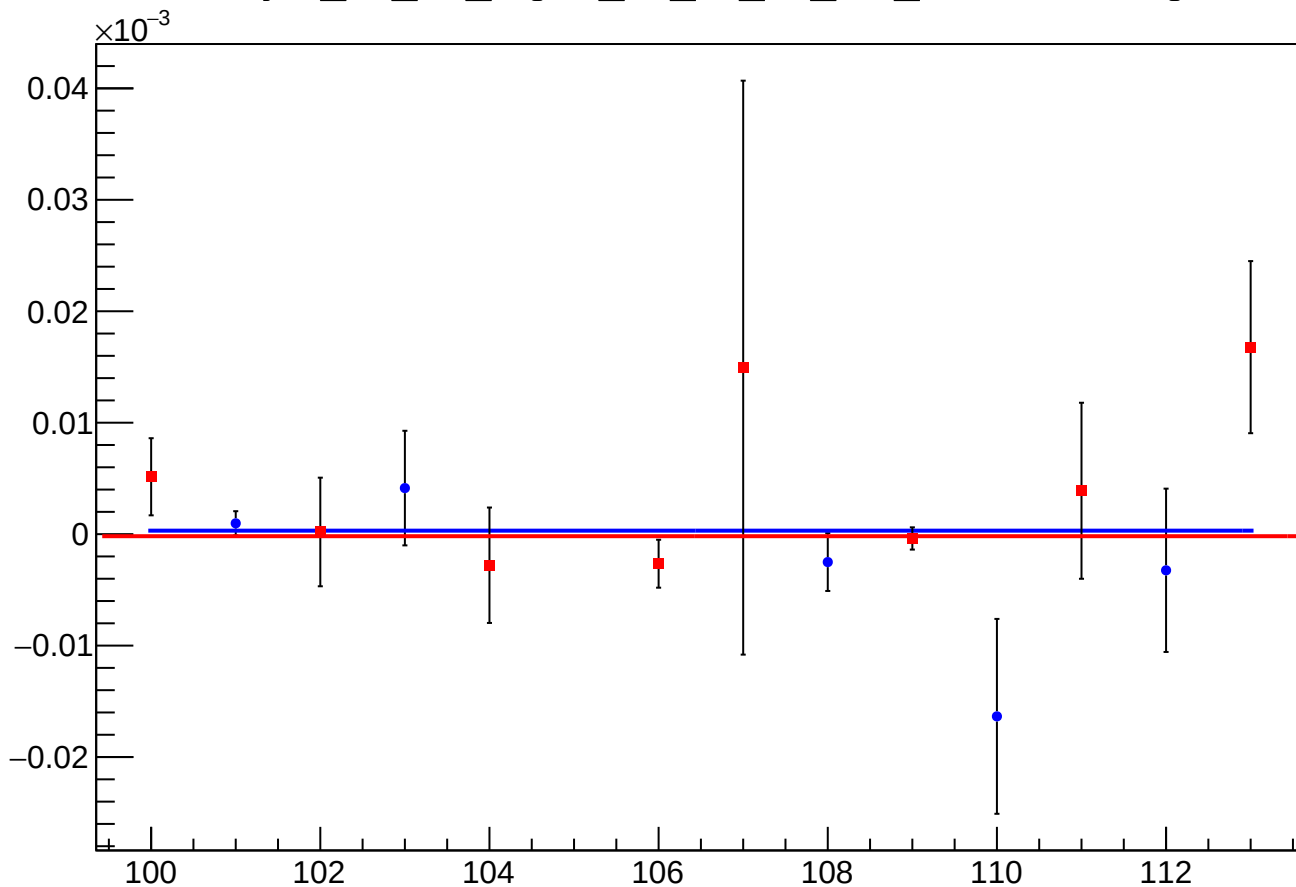
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 39.097+/-0.012  $\chi^2/\text{NDF}$ : 65325.4/12

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

asym\_us\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.0/4

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

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.4/7

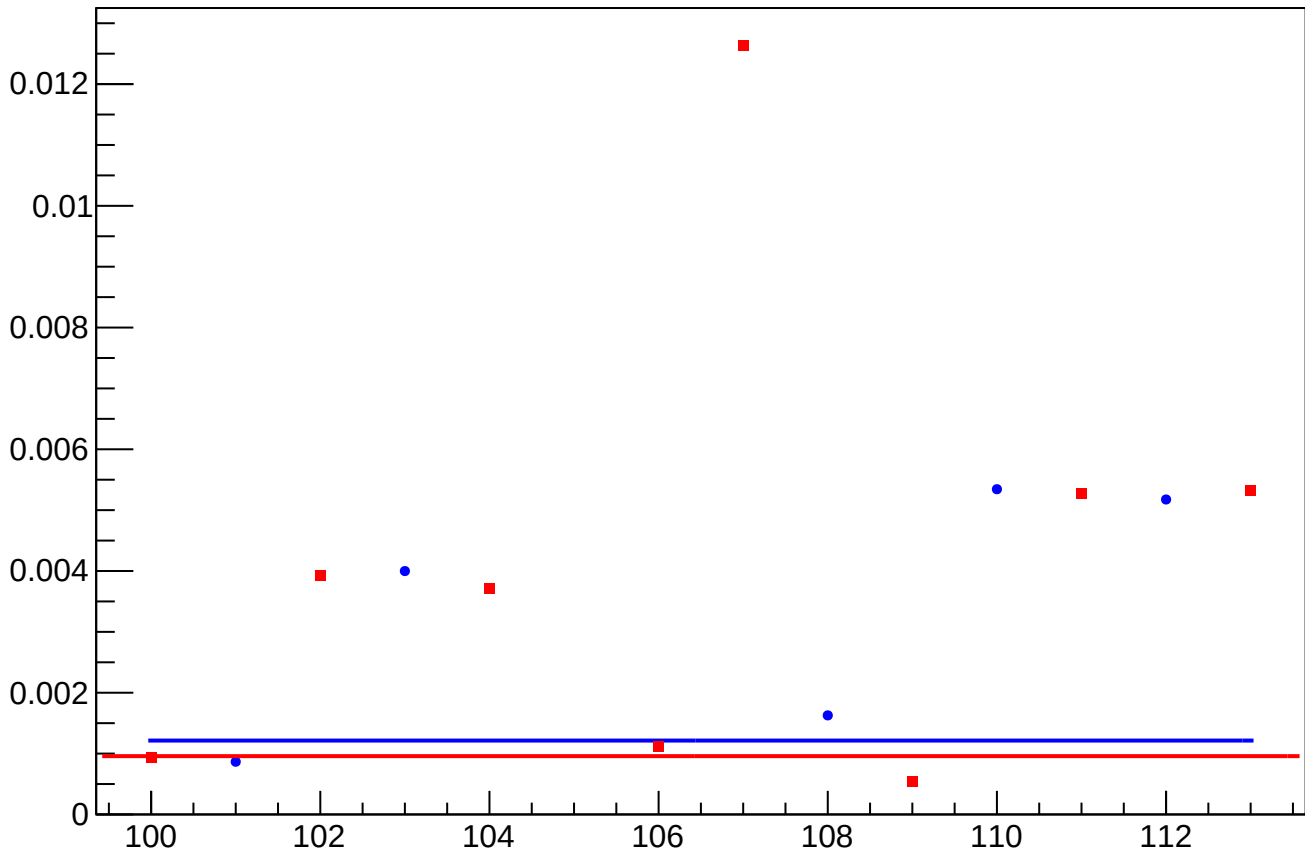
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.6/12

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

# asym\_us\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1873814.8/4

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

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3317729.3/7

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

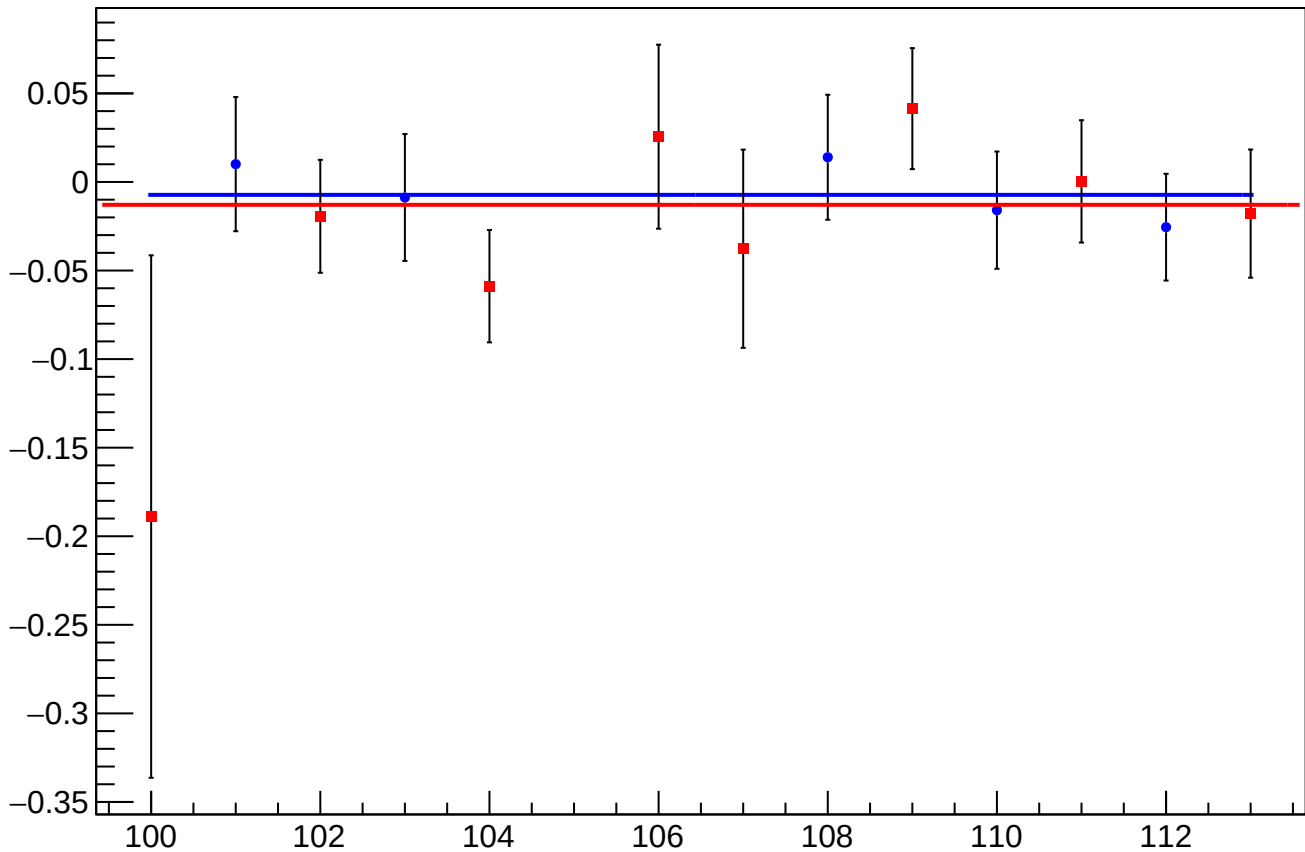
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5271325.3/12

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



# asym\_us\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.007 $\pm$ 0.015  $\chi^2$ /NDF: 1.0/4

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

Right Out: -0.013 $\pm$ 0.014  $\chi^2$ /NDF: 7.0/7

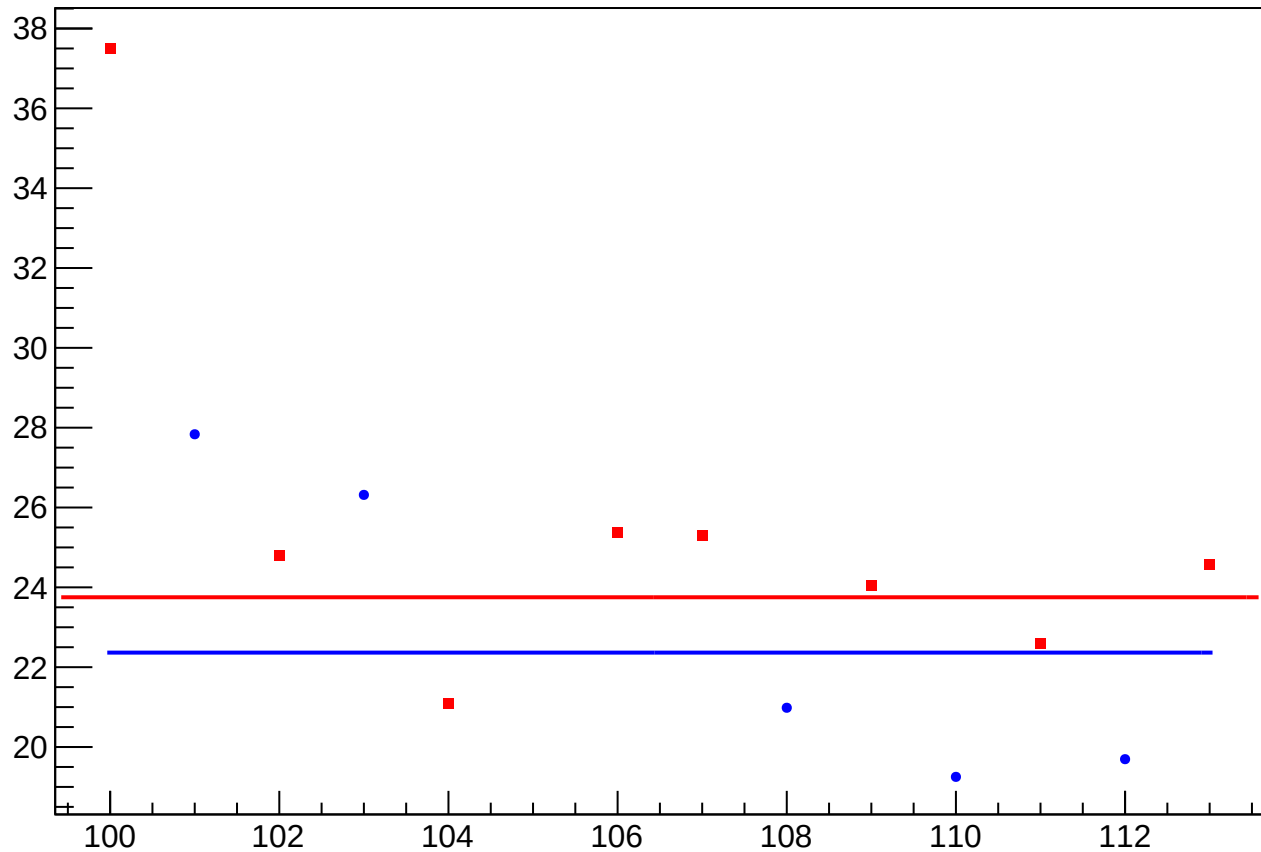
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.010 $\pm$ 0.010  $\chi^2$ /NDF: 8.1/12

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

# asym\_us\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 22.365+/-0.011  $\chi^2/\text{NDF}$ : 102528.8/4

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

Right Out: 23.751+/-0.010  $\chi^2/\text{NDF}$ : 40647.1/7

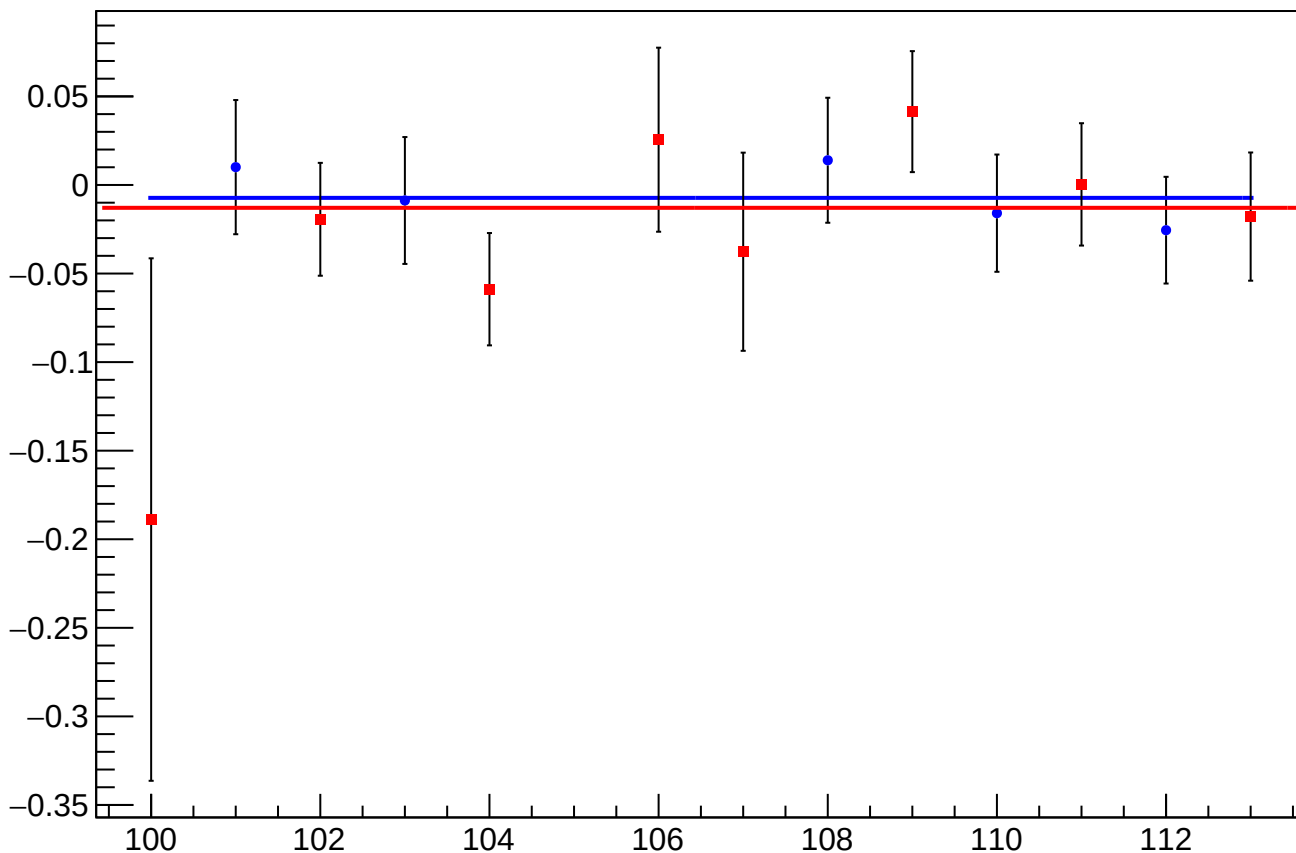
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 23.123+/-0.007  $\chi^2/\text{NDF}$ : 152199.1/12

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

asym\_us\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.007 $\pm$ 0.015  $\chi^2$ /NDF: 1.0/4

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

Right Out: -0.013 $\pm$ 0.014  $\chi^2$ /NDF: 7.0/7

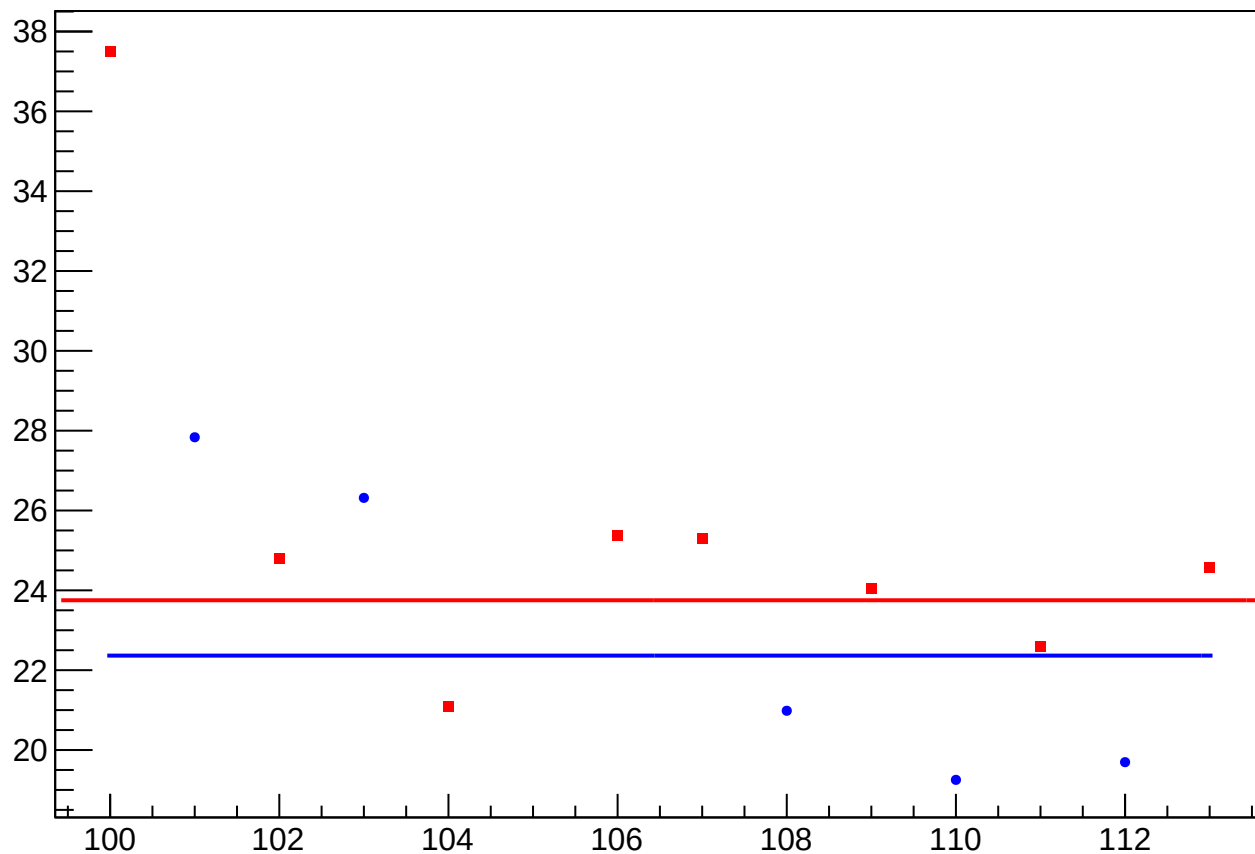
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.010 $\pm$ 0.010  $\chi^2$ /NDF: 8.1/12

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

asym\_us\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 22.365+/-0.011  $\chi^2/\text{NDF}$ : 102528.8/4

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

Right Out: 23.751+/-0.010  $\chi^2/\text{NDF}$ : 40647.1/7

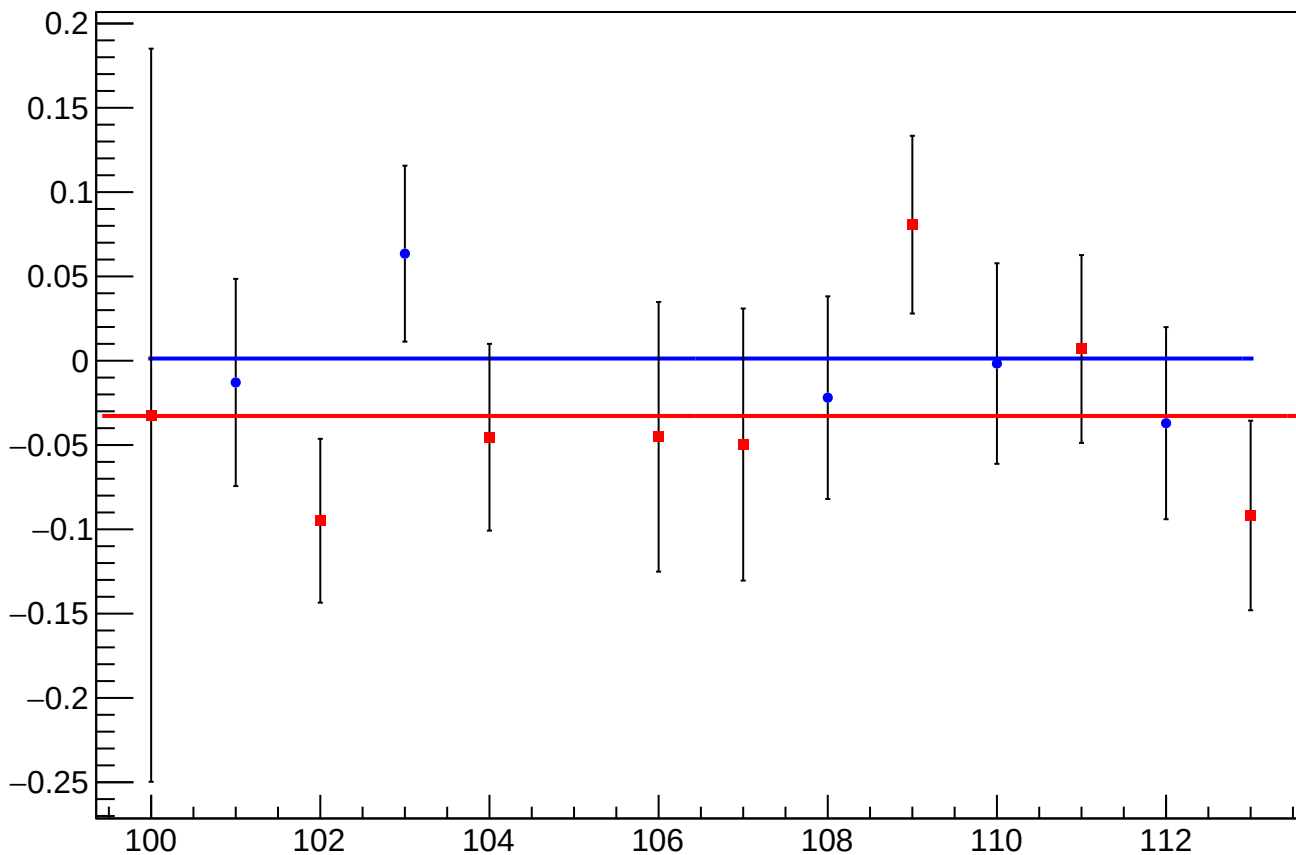
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 23.123+/-0.007  $\chi^2/\text{NDF}$ : 152199.1/12

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

asym\_us\_dd\_eigen\_dit\_vs\_overload\_cor\_diff\_mean vs Slug



Right In: 0.001 $\pm$ 0.026  $\chi^2$ /NDF: 2.1/4

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

Right Out: -0.033 $\pm$ 0.022  $\chi^2$ /NDF: 8.0/7

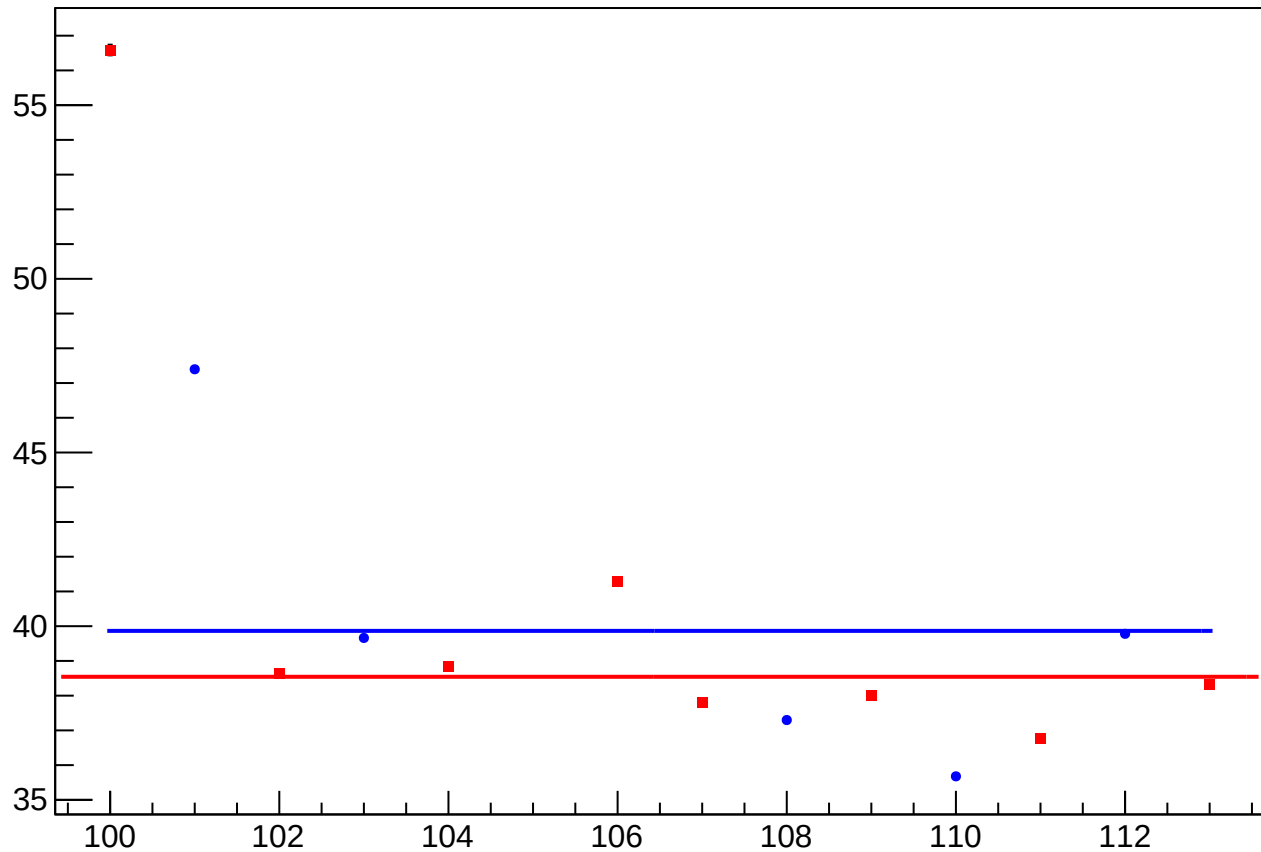
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.018 $\pm$ 0.017  $\chi^2$ /NDF: 11.1/12

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

asym\_us\_dd\_eigen\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In:  $39.865 \pm 0.018$   $\chi^2/\text{NDF}$ : 43643.5/4

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

Right Out:  $38.543 \pm 0.016$   $\chi^2/\text{NDF}$ : 18642.4/7

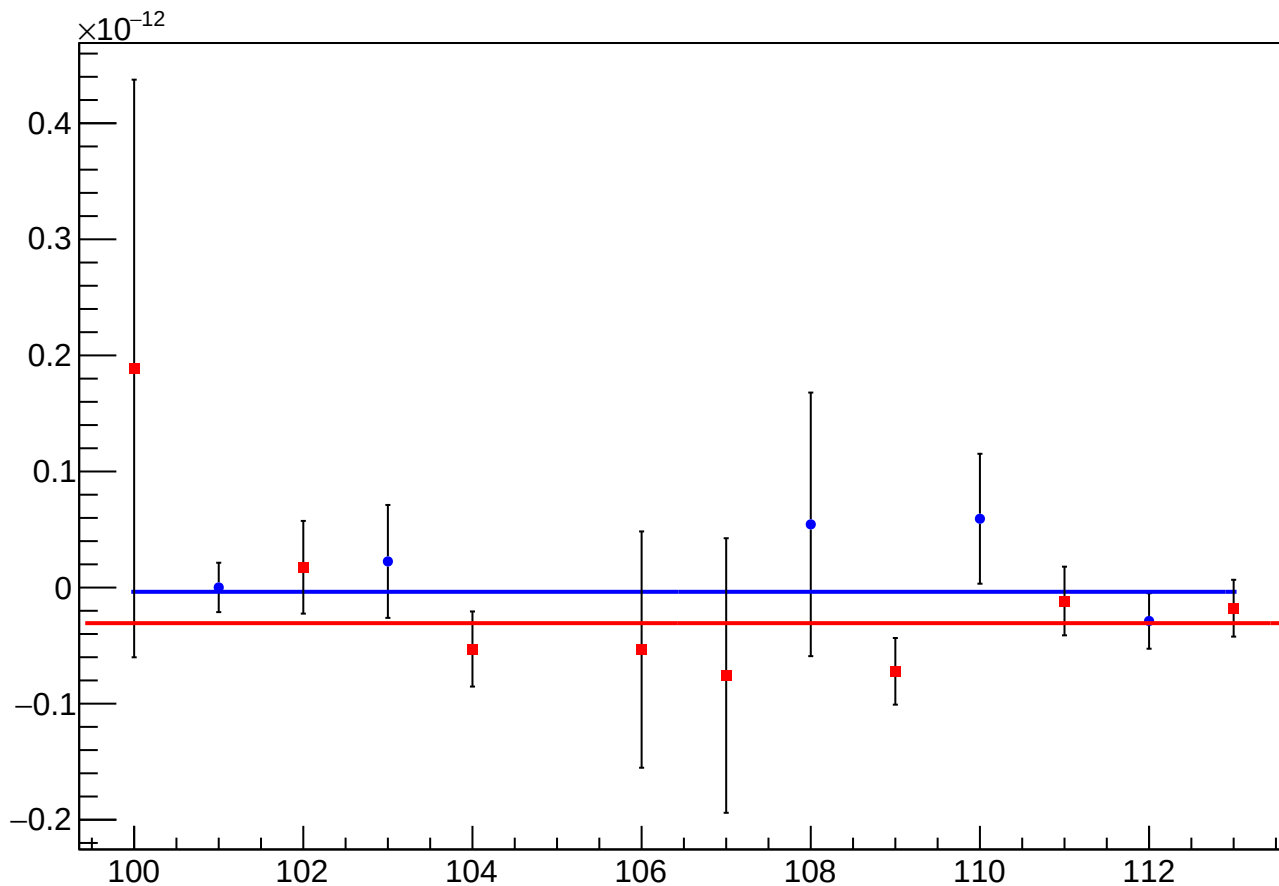
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $39.097 \pm 0.012$   $\chi^2/\text{NDF}$ : 65330.2/12

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

asym\_us\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.0/4

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

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.7/7

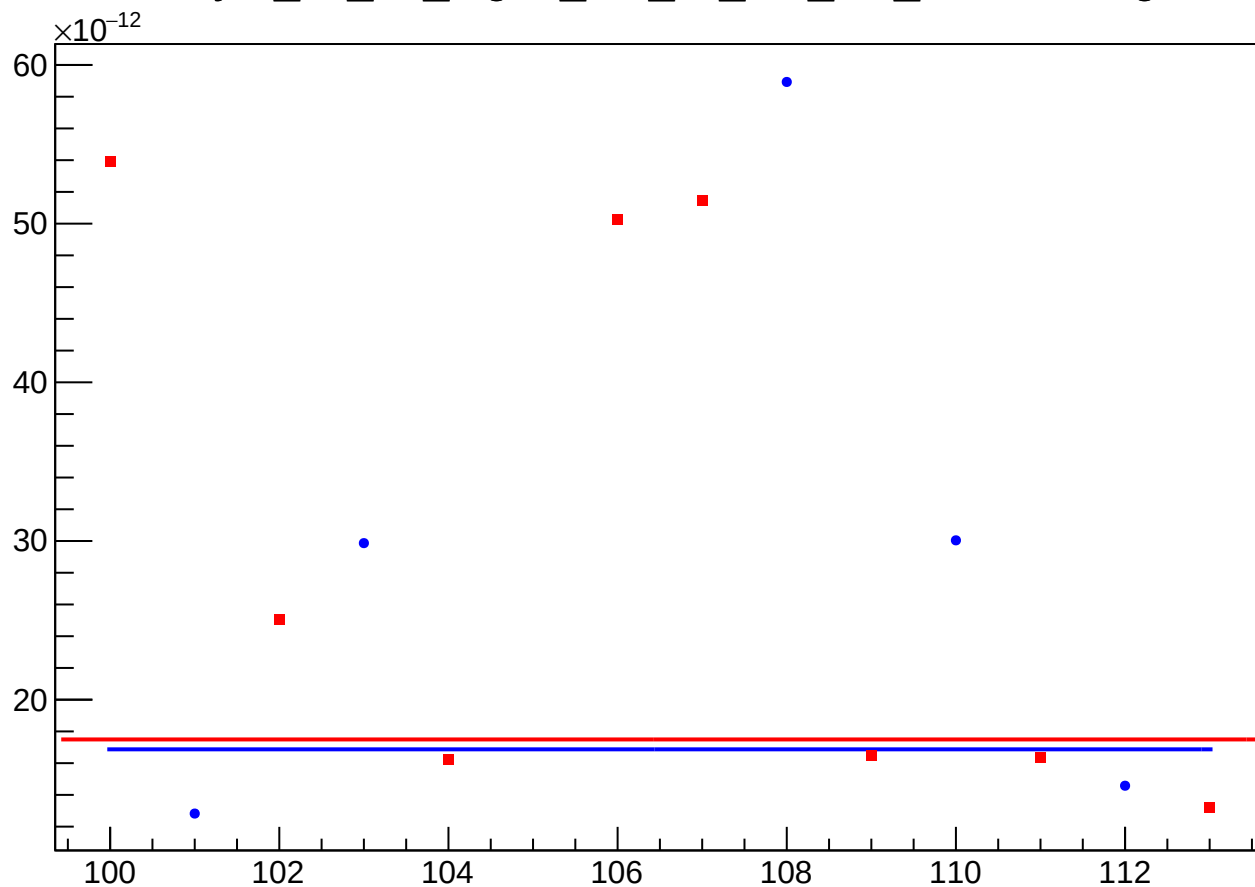
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.5/12

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

# asym\_us\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 618905.4/4

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 556523.4/7

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

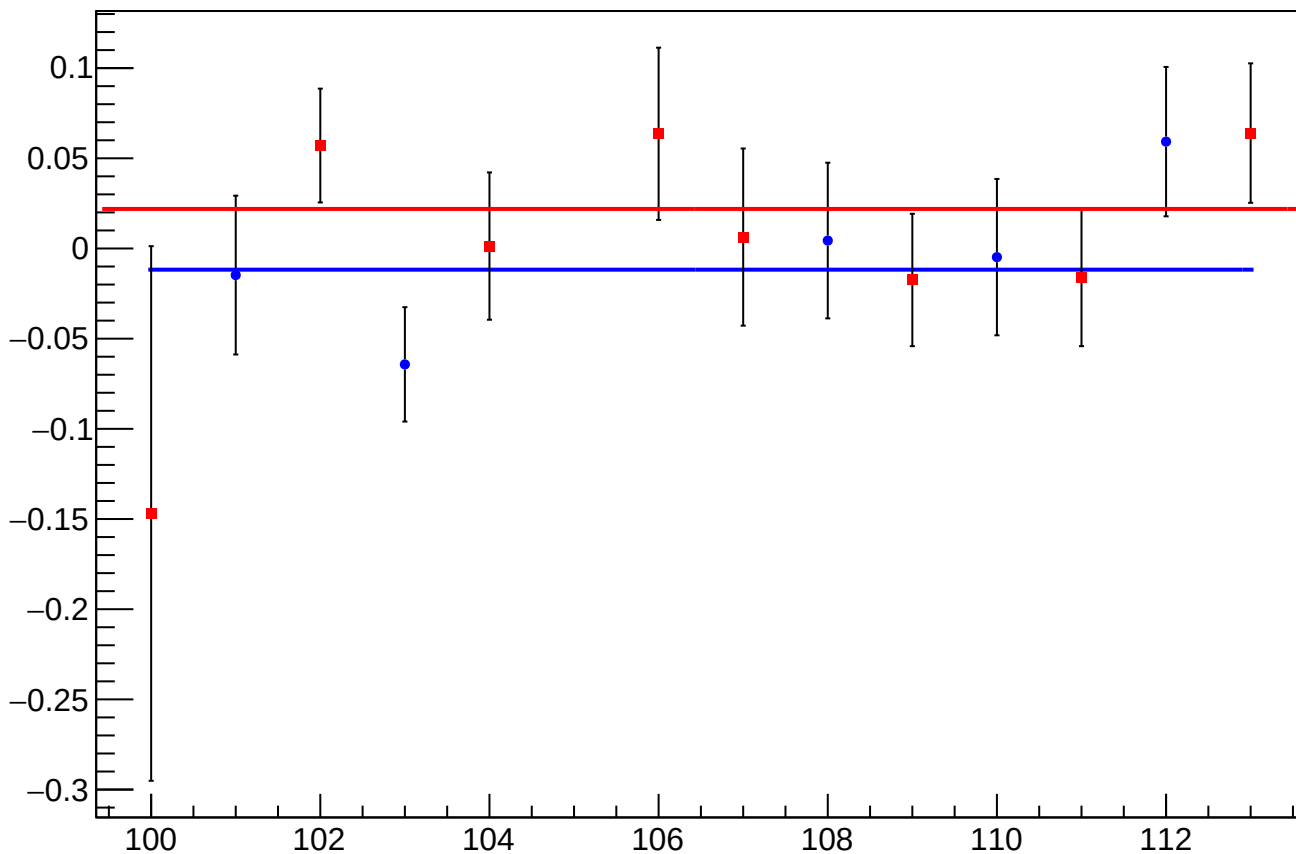
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1177467.0/12

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



asym\_us\_dd\_overload\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.012 $\pm$ 0.018  $\chi^2$ /NDF: 5.9/4

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

Right Out: 0.022 $\pm$ 0.015  $\chi^2$ /NDF: 7.0/7

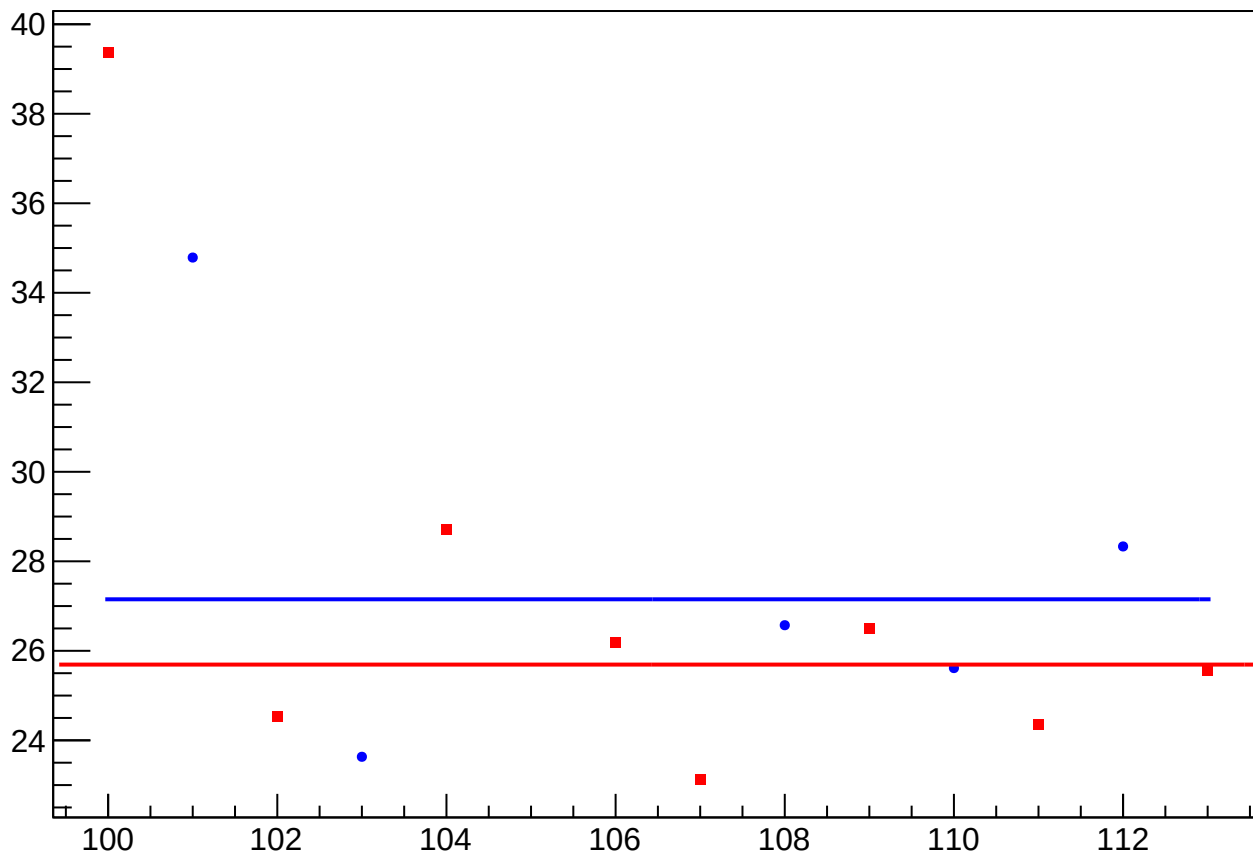
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.008 $\pm$ 0.011  $\chi^2$ /NDF: 15.0/12

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

# asym\_us\_dd\_overload\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 27.151+/-0.013  $\chi^2/\text{NDF}$ : 89288.6/4

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

Right Out: 25.692+/-0.010  $\chi^2/\text{NDF}$ : 39711.2/7

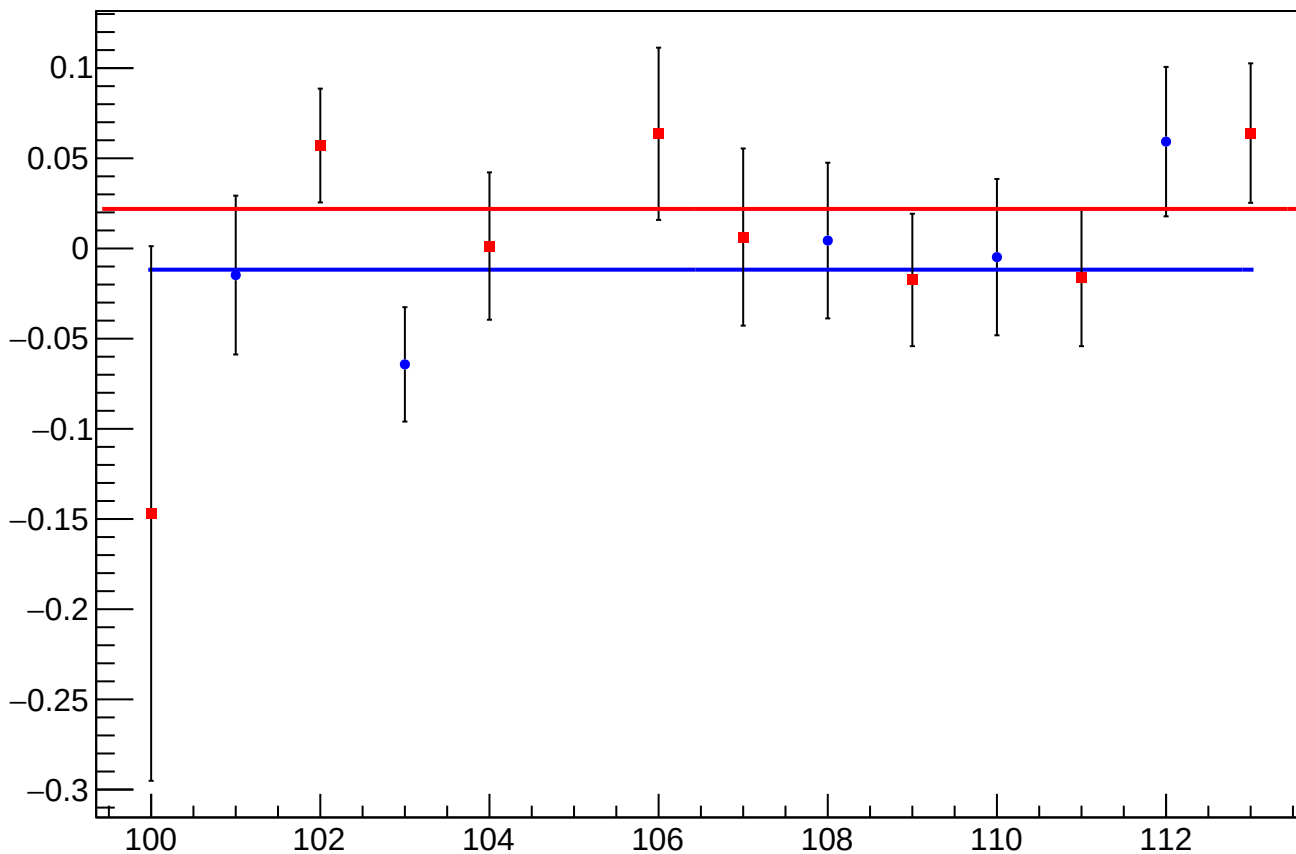
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 26.287+/-0.008  $\chi^2/\text{NDF}$ : 136976.3/12

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

asym\_us\_dd\_overload\_cor\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.012 $\pm$ 0.018  $\chi^2$ /NDF: 5.9/4

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

Right Out: 0.022 $\pm$ 0.015  $\chi^2$ /NDF: 7.0/7

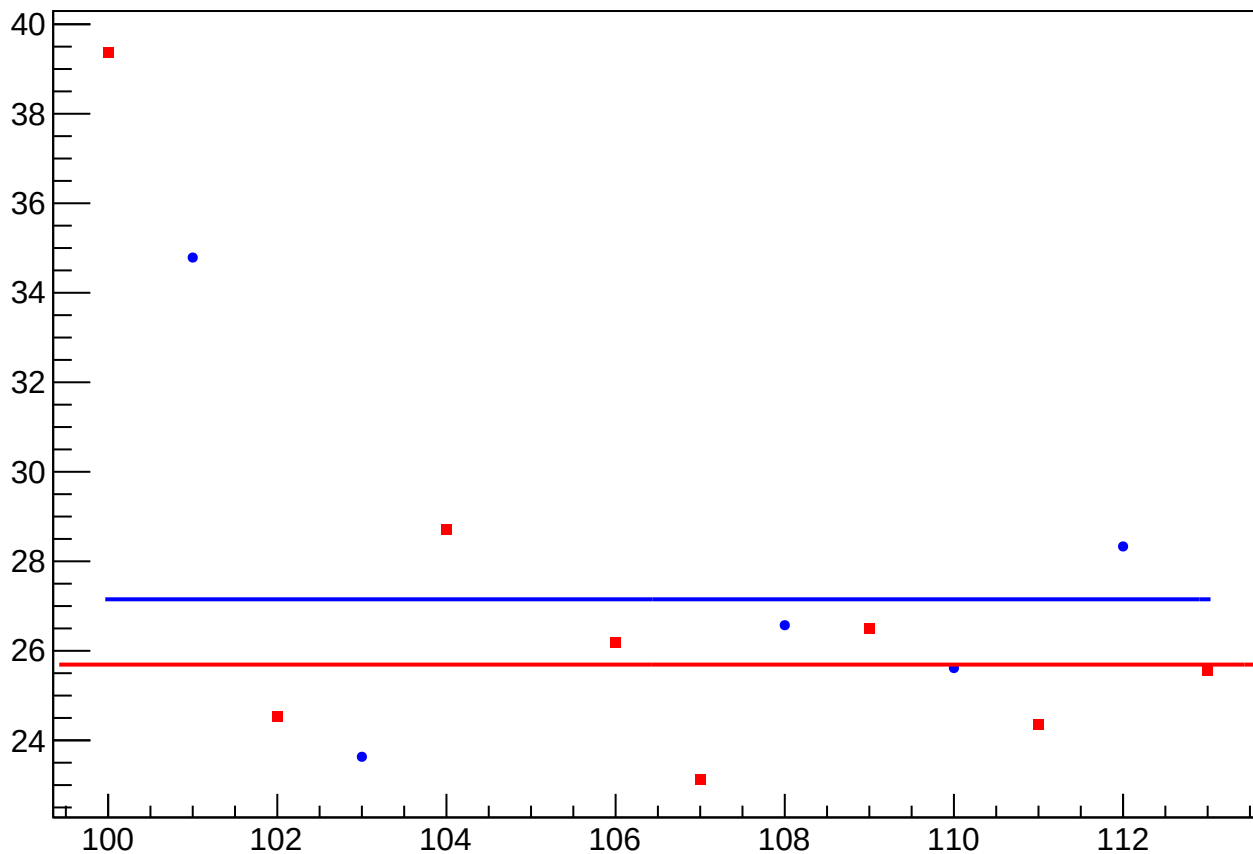
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.008 $\pm$ 0.011  $\chi^2$ /NDF: 15.0/12

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

asym\_us\_dd\_overload\_cor\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 27.151+/-0.013  $\chi^2/\text{NDF}$ : 89288.6/4

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

Right Out: 25.692+/-0.010  $\chi^2/\text{NDF}$ : 39711.2/7

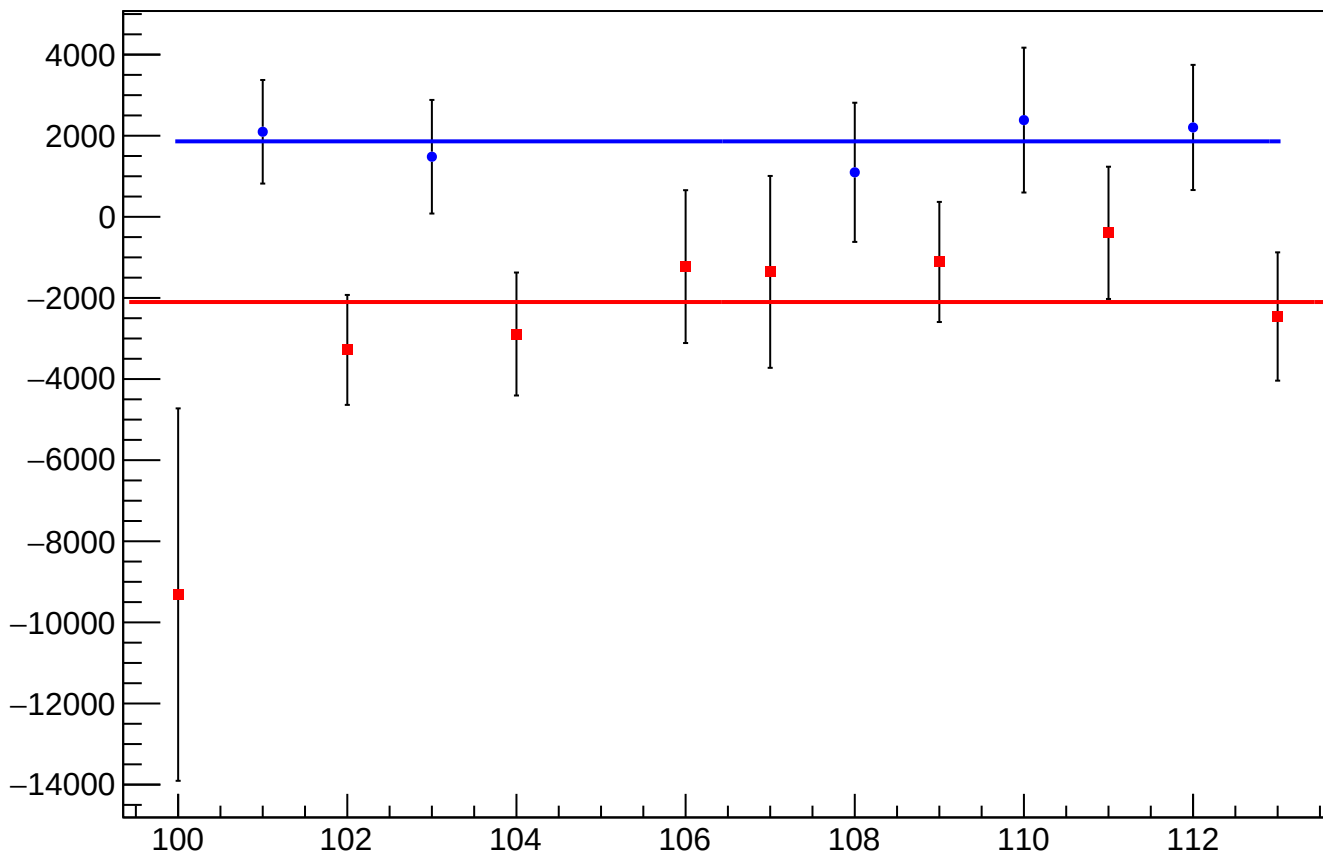
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 26.287+/-0.008  $\chi^2/\text{NDF}$ : 136976.3/12

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

# reg\_asym\_usl\_mean vs Slug



Right In: 1861.127 $\pm$ 674.796  $\chi^2$ /NDF: 0.4/4

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

Right Out: -2100.658 $\pm$ 606.477  $\chi^2$ /NDF: 5.4/7

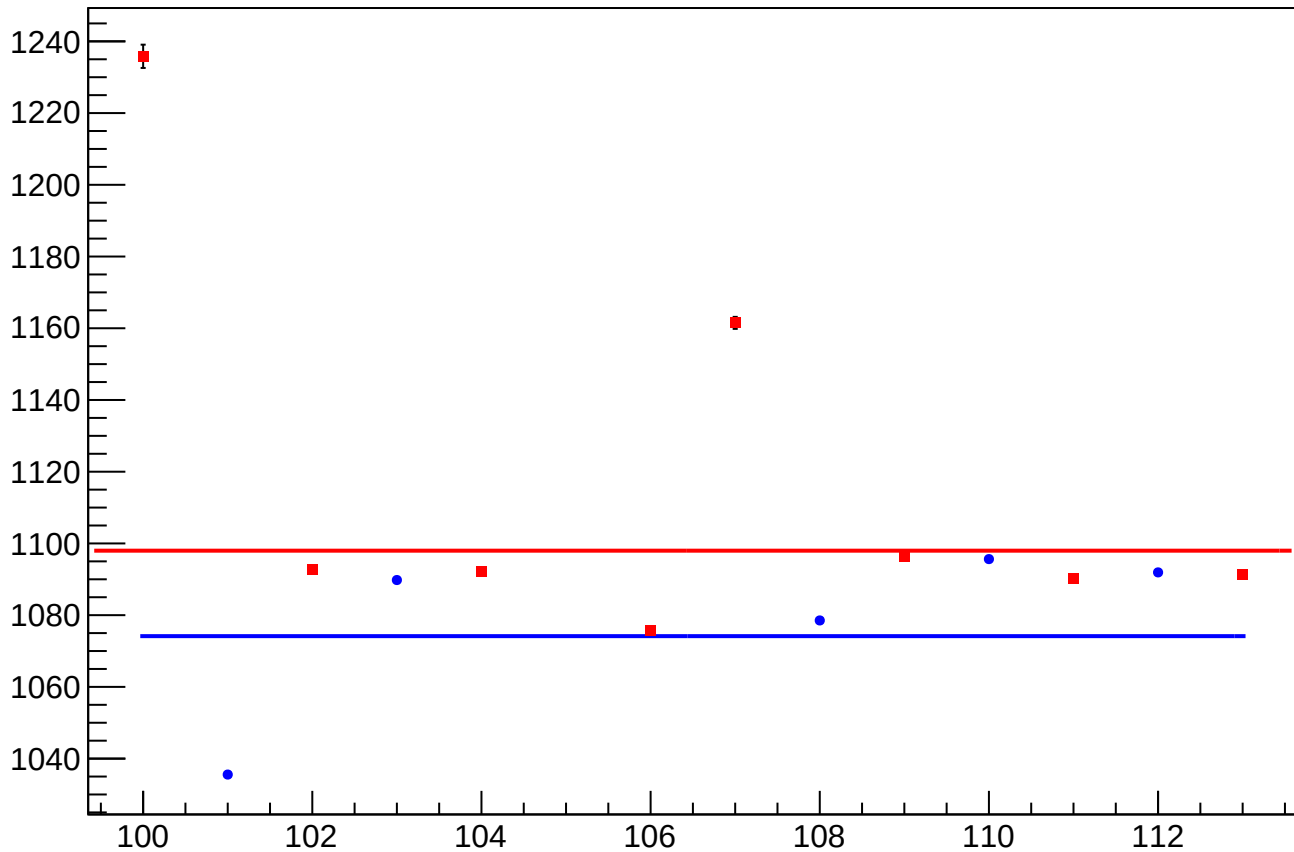
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -330.411 $\pm$ 451.070  $\chi^2$ /NDF: 24.9/12

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

# reg\_asym\_usl\_rms vs Slug



Right In: 1074.150+/-0.477  $\chi^2/\text{NDF}$ : 2644.2/4

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

Right Out: 1097.982+/-0.429  $\chi^2/\text{NDF}$ : 3664.9/7

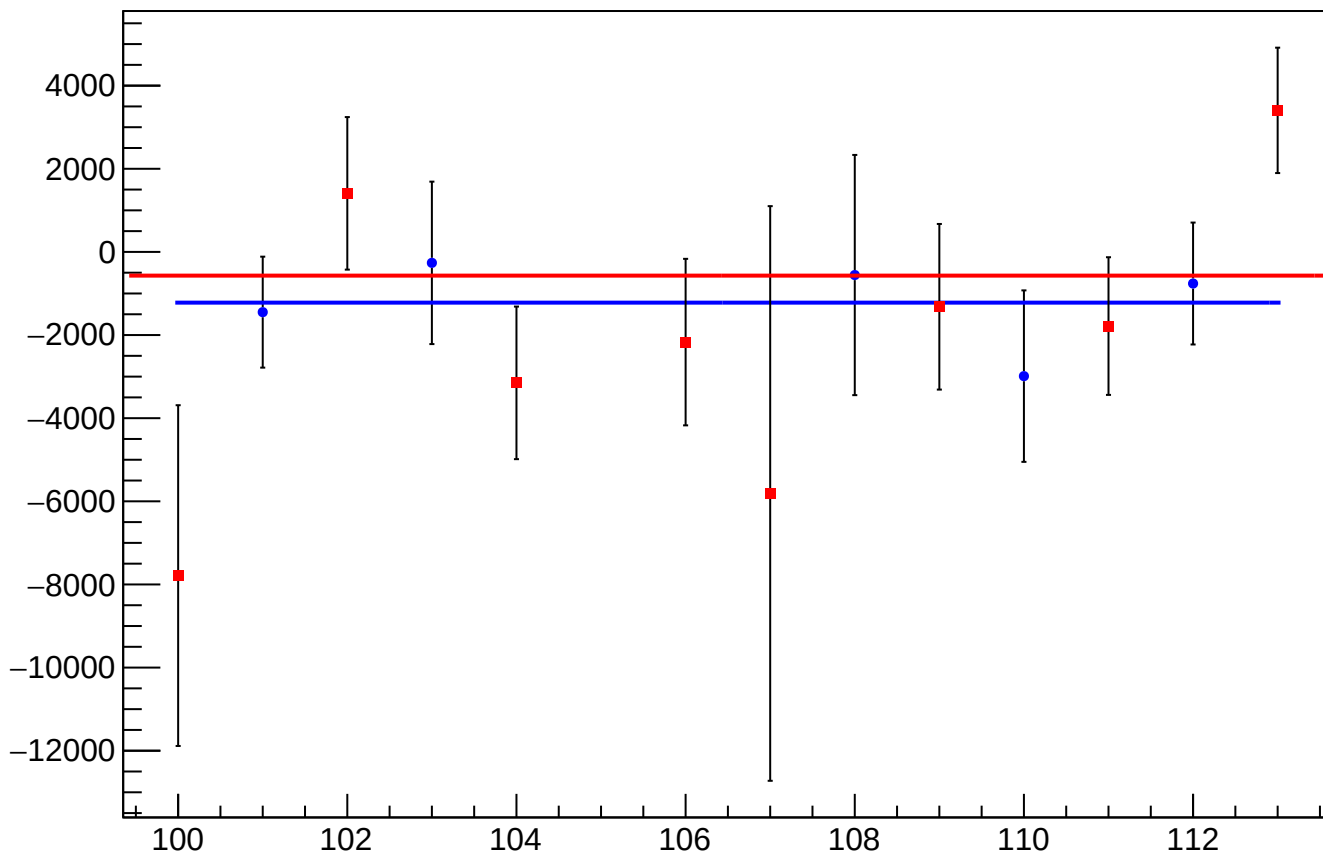
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1087.333+/-0.319  $\chi^2/\text{NDF}$ : 7689.1/12

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

# asym\_usl\_reg\_correction\_mean vs Slug



Right In: -1220.237 $\pm$ 780.147  $\chi^2$ /NDF: 1.2/4

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

Right Out: -570.255 $\pm$ 710.725  $\chi^2$ /NDF: 15.1/7

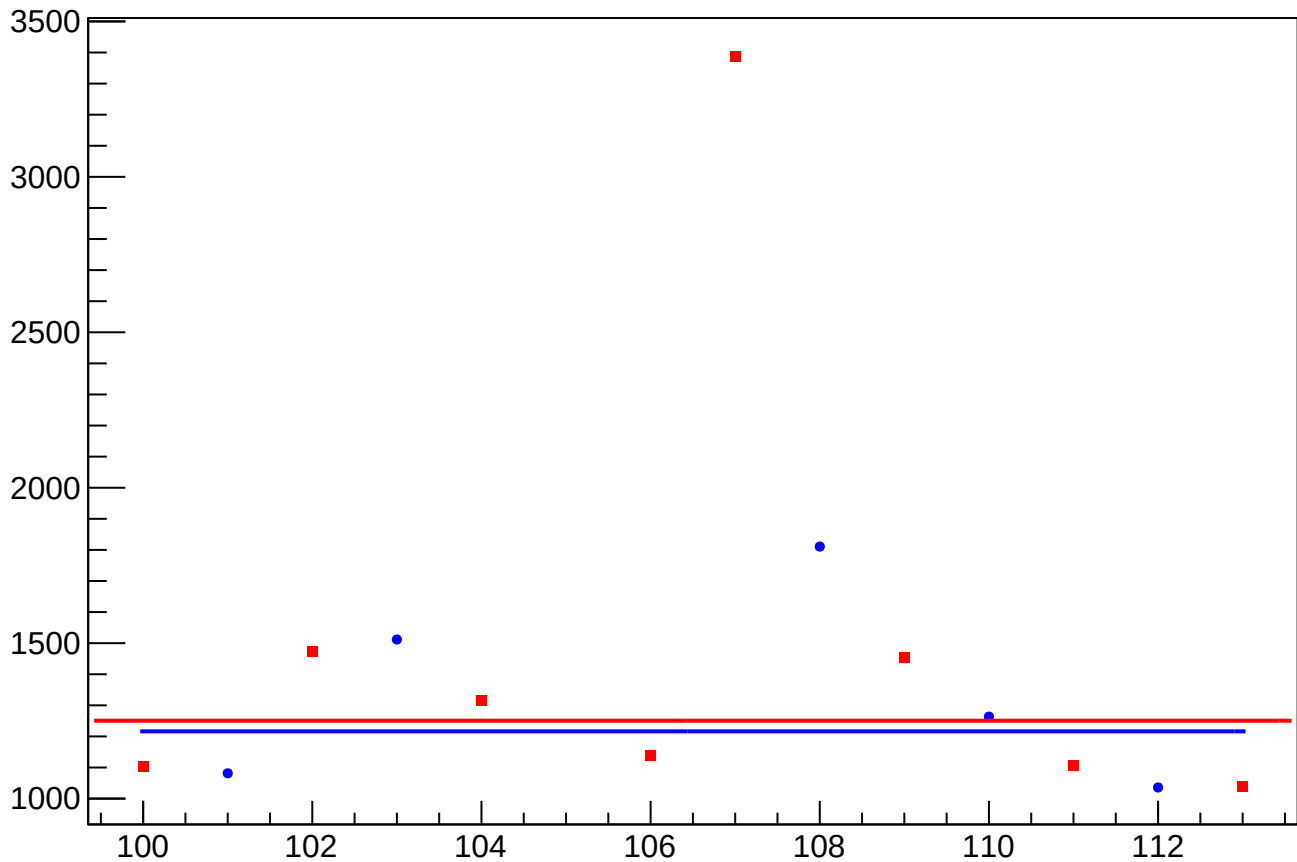
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -865.045 $\pm$ 525.391  $\chi^2$ /NDF: 16.6/12

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

# asym\_usl\_reg\_correction\_rms vs Slug



Right In: 1216.332 $\pm$ 0.552  $\chi^2$ /NDF: 182122.7/4

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

Right Out: 1250.581 $\pm$ 0.503  $\chi^2$ /NDF: 307716.0/7

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

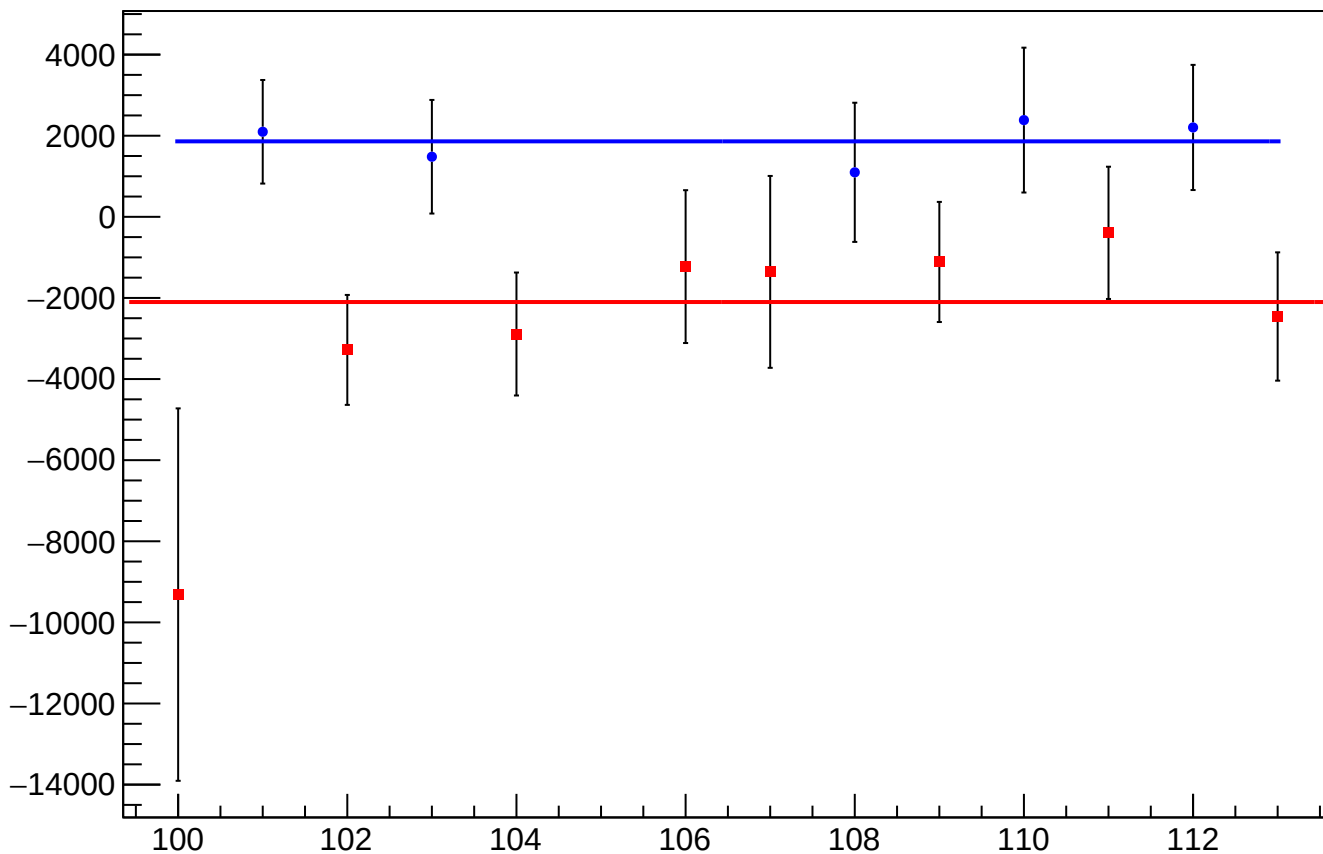
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1235.048 $\pm$ 0.372  $\chi^2$ /NDF: 491945.0/12

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



# cor\_asym\_usl\_mean vs Slug



Right In: 1861.127 $\pm$ 674.796  $\chi^2$ /NDF: 0.4/4

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

Right Out: -2100.658 $\pm$ 606.477  $\chi^2$ /NDF: 5.4/7

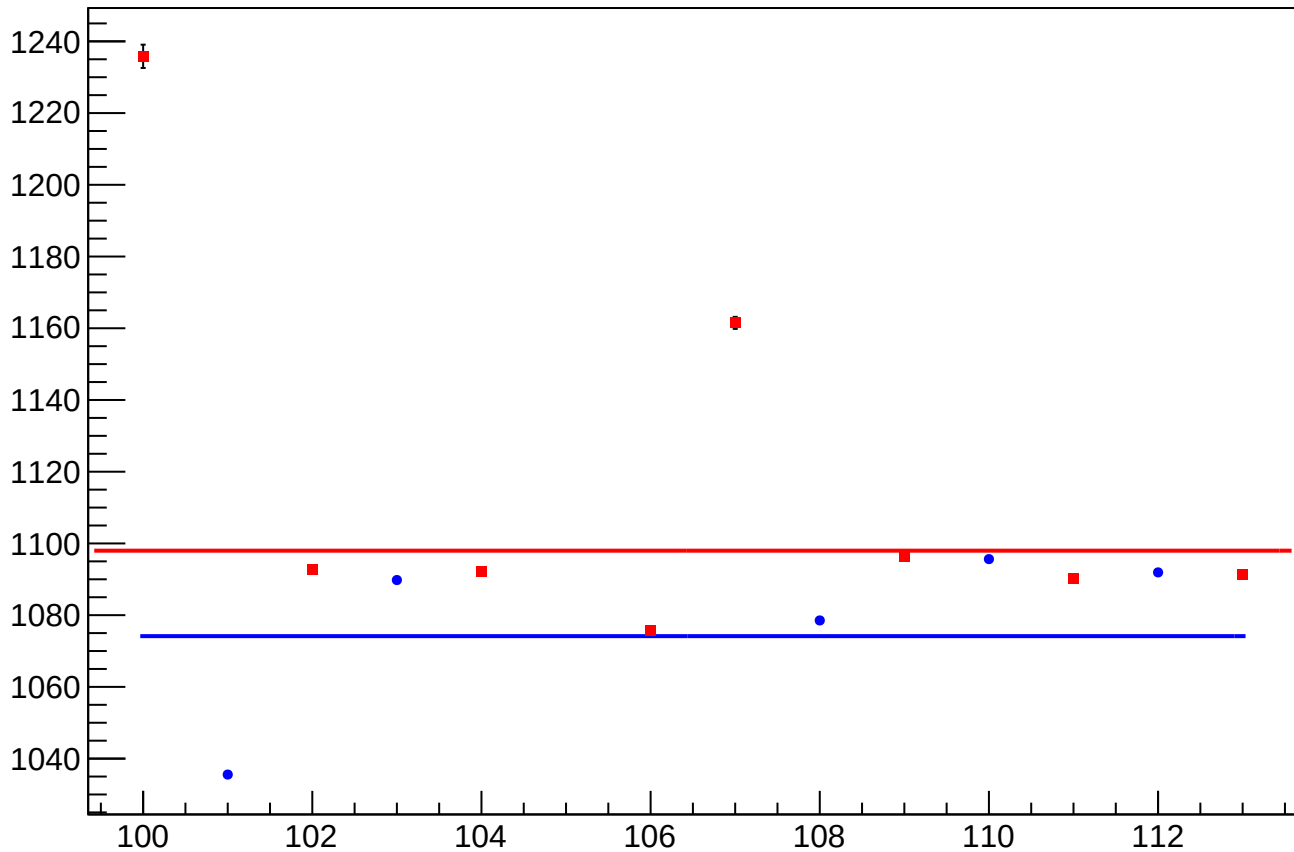
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -330.411 $\pm$ 451.070  $\chi^2$ /NDF: 24.9/12

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

# cor\_asym\_usl\_rms vs Slug



Right In: 1074.150+/-0.477  $\chi^2/\text{NDF}$ : 2644.2/4

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

Right Out: 1097.982+/-0.429  $\chi^2/\text{NDF}$ : 3664.9/7

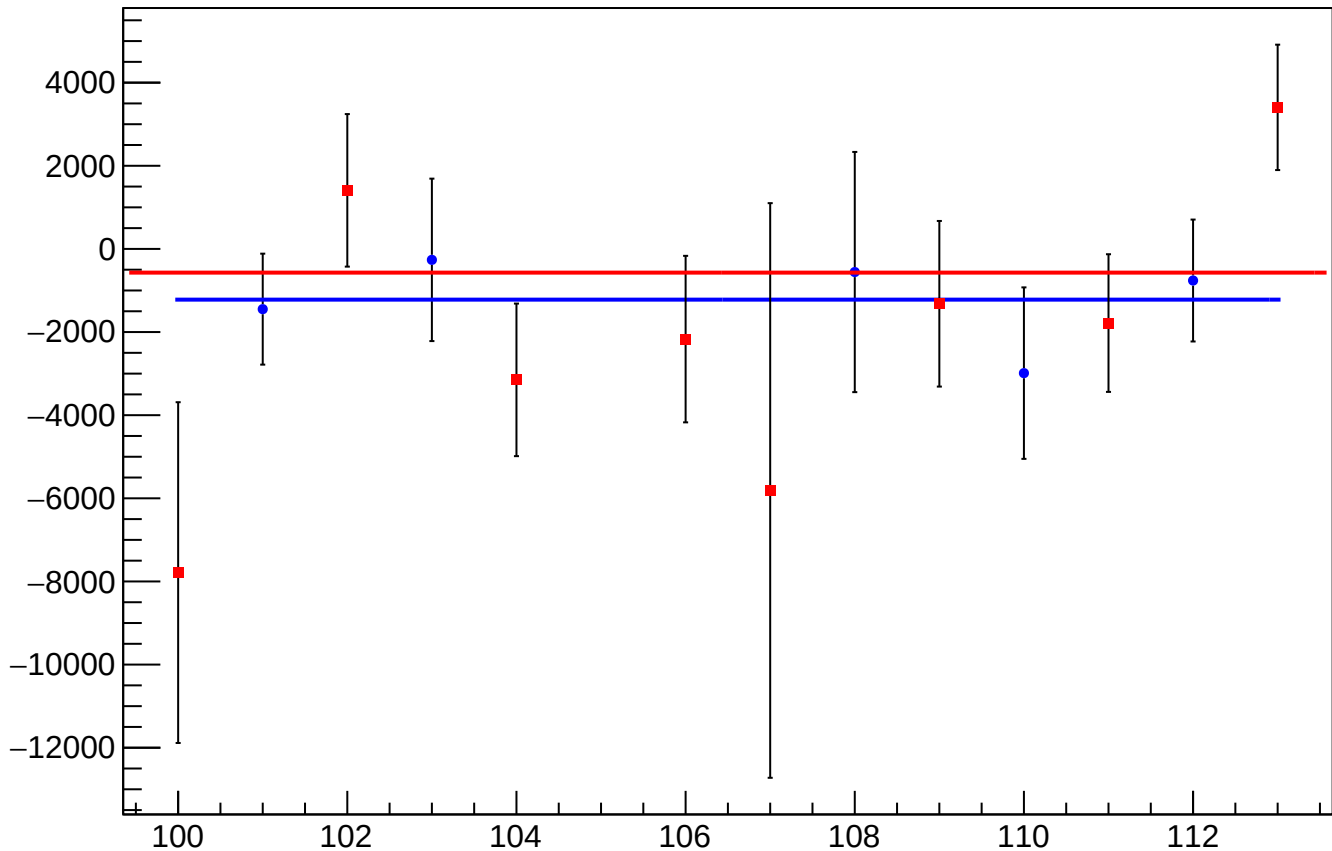
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1087.333+/-0.319  $\chi^2/\text{NDF}$ : 7689.1/12

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

# asym\_usl\_cor\_correction\_mean vs Slug



Right In: -1220.237 $\pm$ 780.147  $\chi^2$ /NDF: 1.2/4

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

Right Out: -570.255 $\pm$ 710.725  $\chi^2$ /NDF: 15.1/7

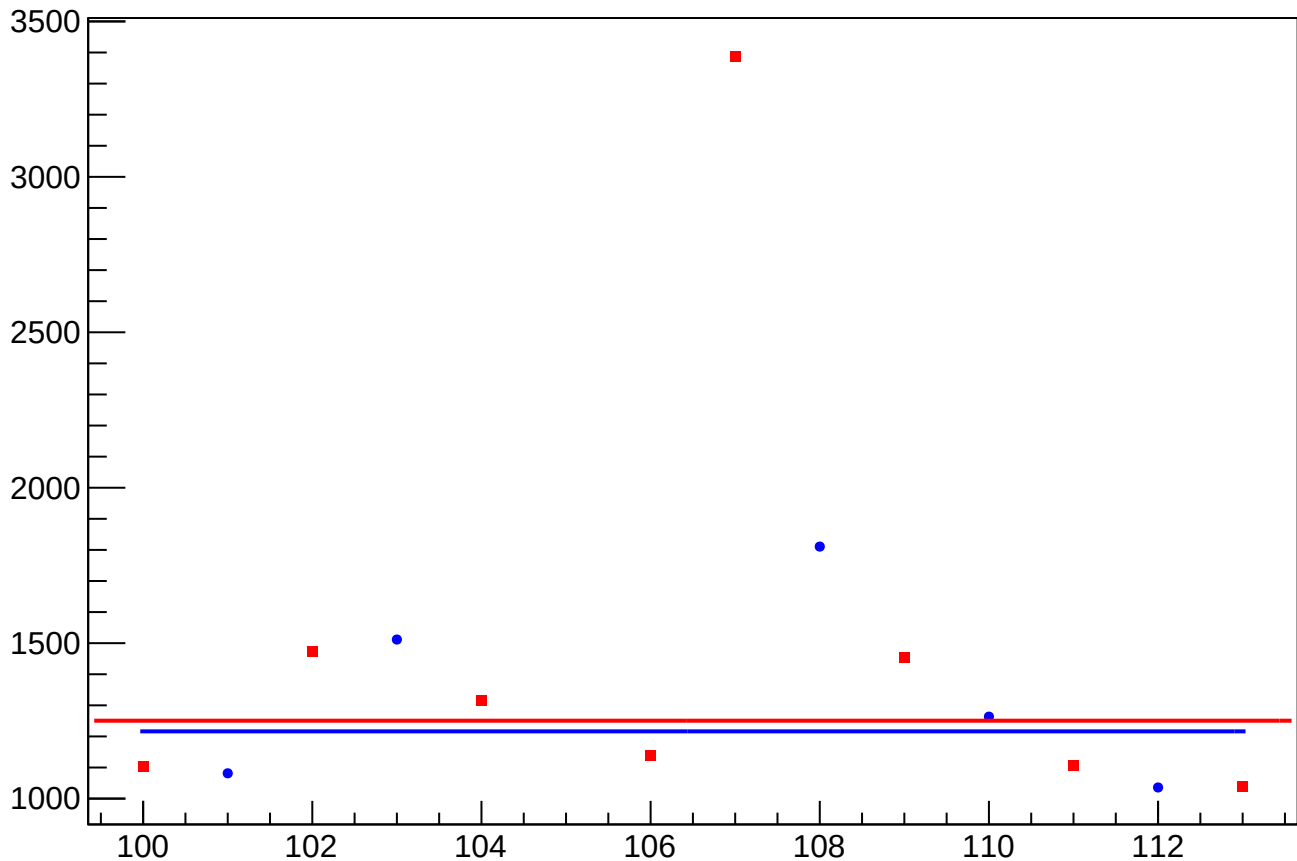
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -865.045 $\pm$ 525.391  $\chi^2$ /NDF: 16.6/12

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

# asym\_usl\_cor\_correction\_rms vs Slug



Right In: 1216.332+/-0.552  $\chi^2/\text{NDF}$ : 182122.7/4

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

Right Out: 1250.581+/-0.503  $\chi^2/\text{NDF}$ : 307716.0/7

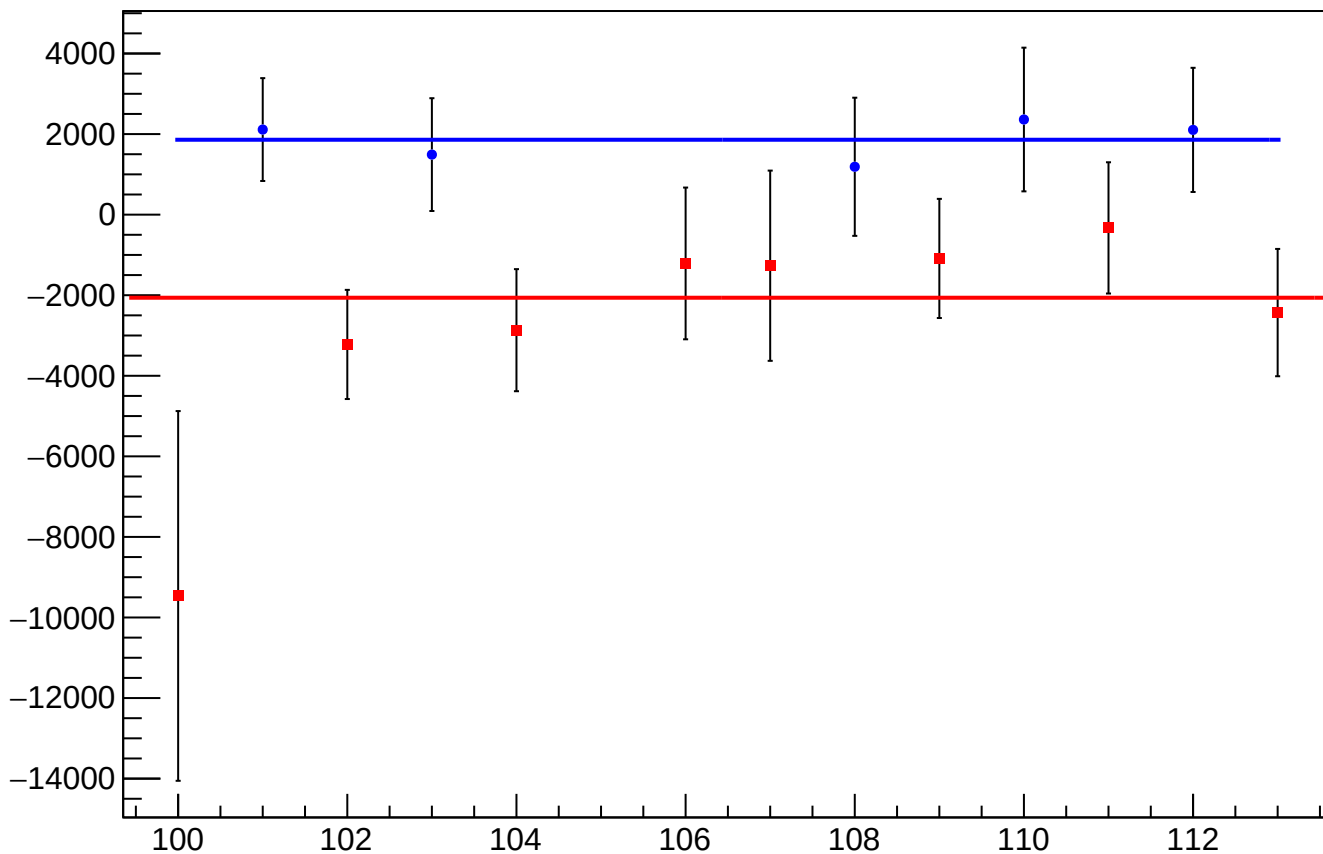
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1235.048+/-0.372  $\chi^2/\text{NDF}$ : 491945.0/12

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

# overload\_cor\_asym\_usl\_mean vs Slug



Right In:  $1859.251 \pm 674.263$   $\chi^2/\text{NDF}$ : 0.4/4

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

Right Out:  $-2062.394 \pm 605.950$   $\chi^2/\text{NDF}$ : 5.6/7

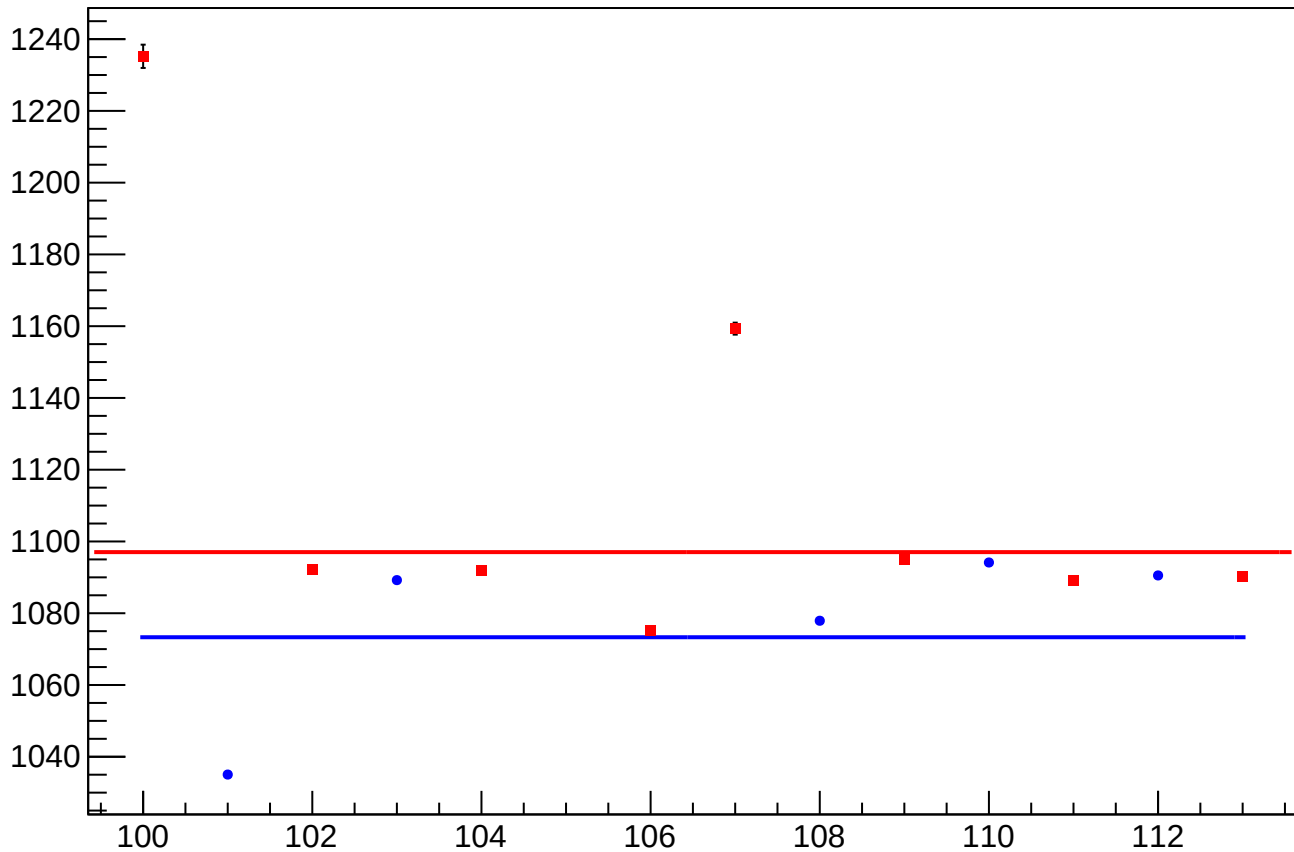
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-310.241 \pm 450.694$   $\chi^2/\text{NDF}$ : 24.6/12

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

# overload\_cor\_asym\_usl\_rms vs Slug



Right In: 1073.309+/-0.477  $\chi^2/\text{NDF}$ : 2593.5/4

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

Right Out: 1097.033+/-0.428  $\chi^2/\text{NDF}$ : 3611.5/7

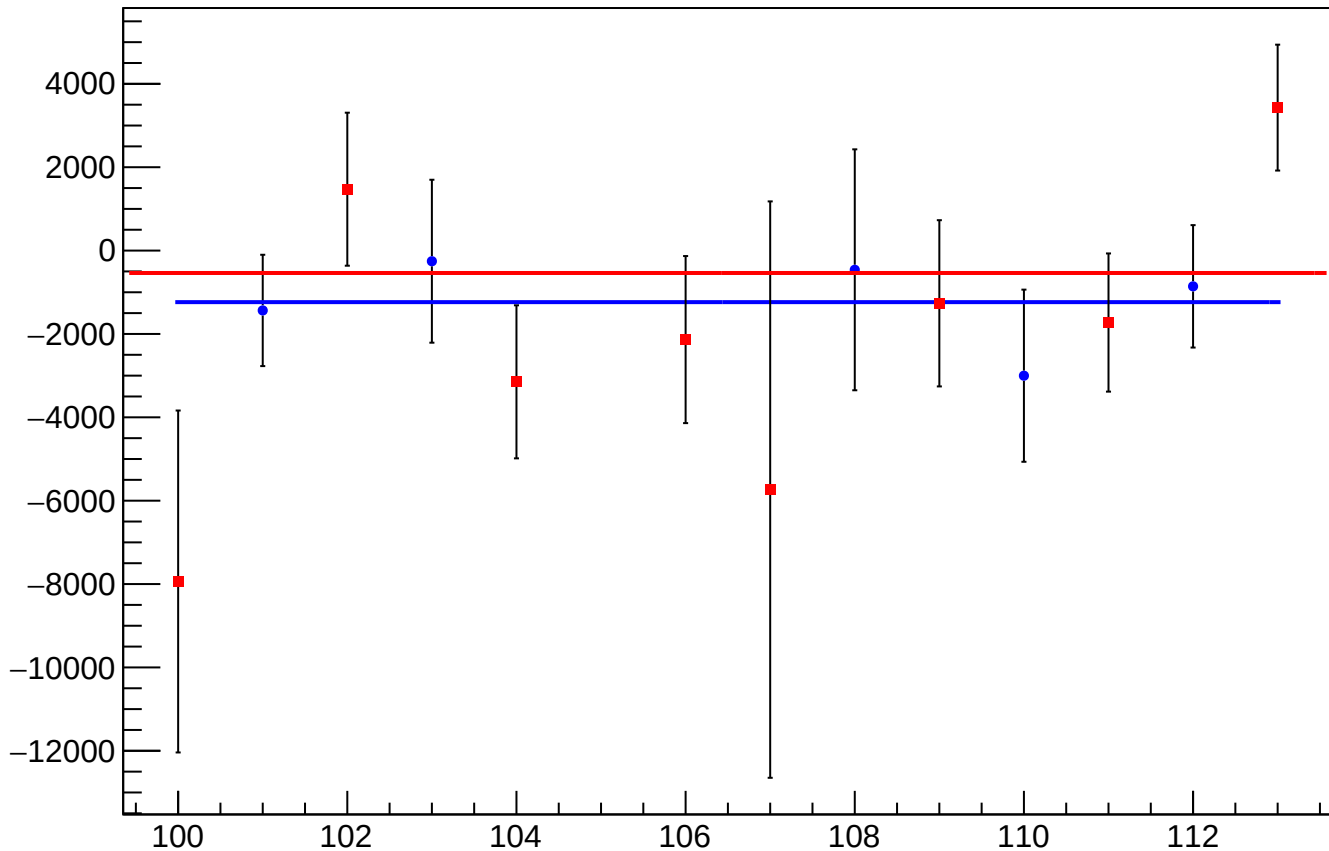
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1086.433+/-0.319  $\chi^2/\text{NDF}$ : 7574.7/12

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

# asym\_usl\_overload\_cor\_correction\_mean vs Slug



Right In: -1236.695 $\pm$ 780.735  $\chi^2$ /NDF: 1.1/4

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

Right Out: -537.429 $\pm$ 711.220  $\chi^2$ /NDF: 15.2/7

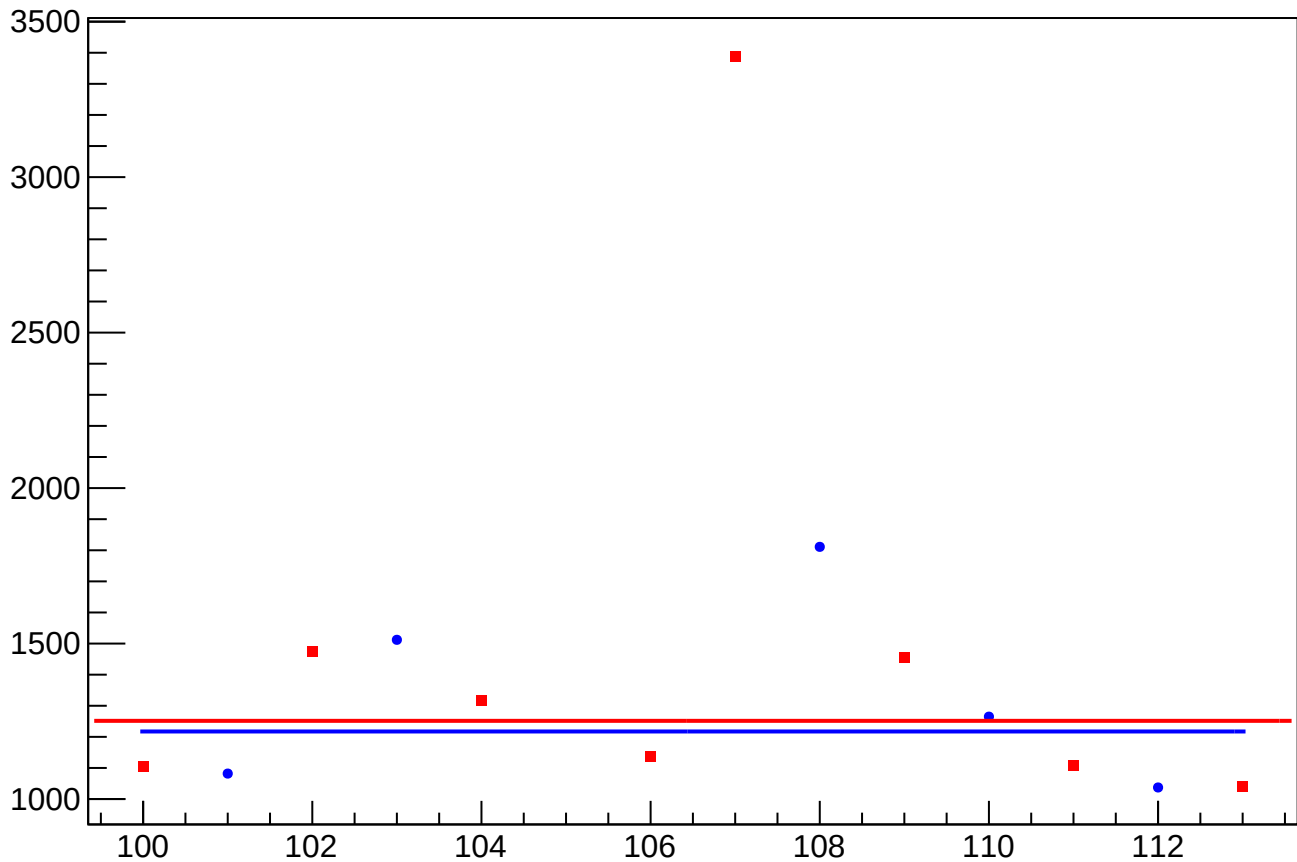
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -854.552 $\pm$ 525.770  $\chi^2$ /NDF: 16.8/12

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

# asym\_usl\_overload\_cor\_correction\_rms vs Slug



Right In: 1217.314+/-0.552  $\chi^2/\text{NDF}$ : 181618.2/4

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

Right Out: 1251.509+/-0.503  $\chi^2/\text{NDF}$ : 307266.6/7

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

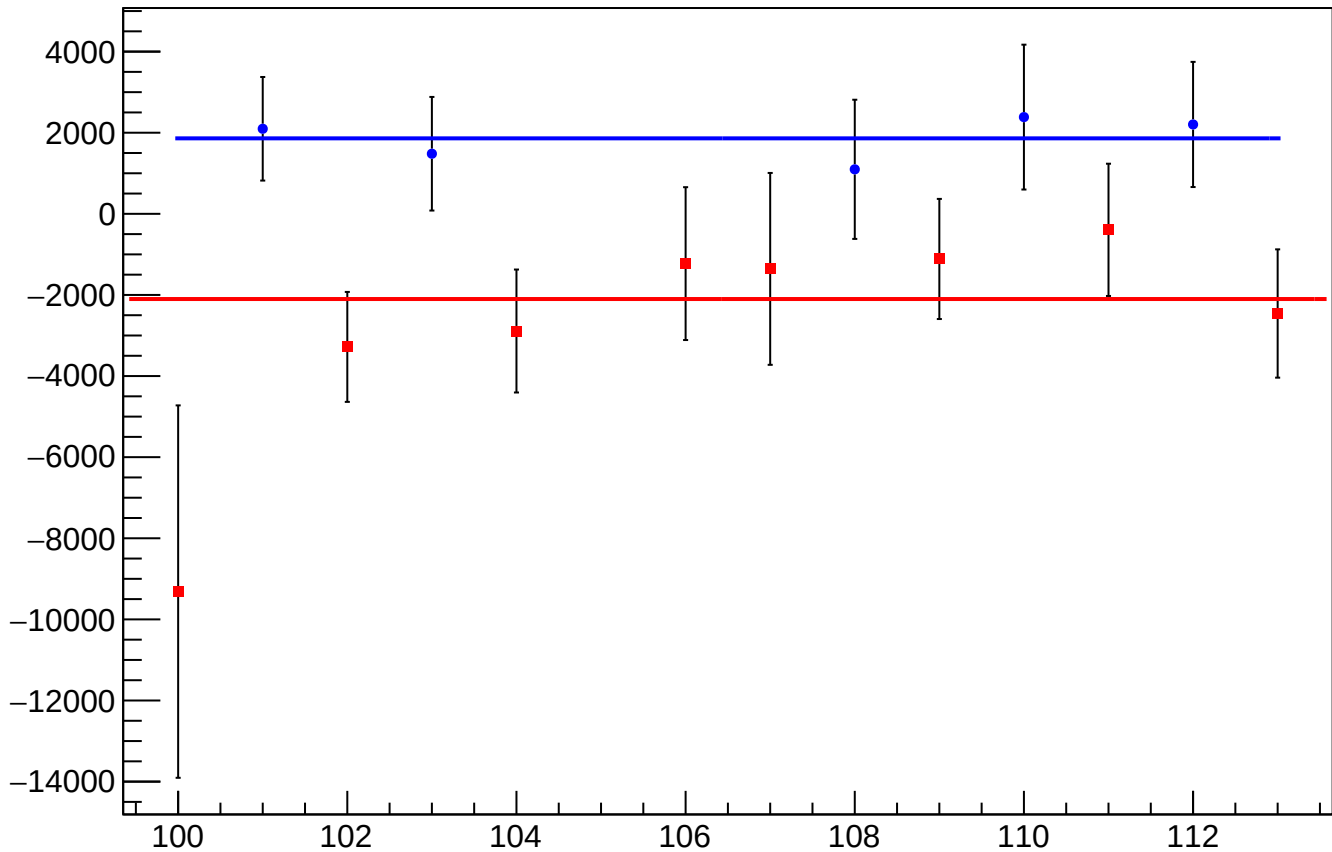
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1236.001+/-0.372  $\chi^2/\text{NDF}$ : 490981.5/12

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



# eigen\_cor\_asym\_usl\_mean vs Slug



Right In: 1861.127 $\pm$ 674.796  $\chi^2$ /NDF: 0.4/4

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

Right Out: -2100.658 $\pm$ 606.477  $\chi^2$ /NDF: 5.4/7

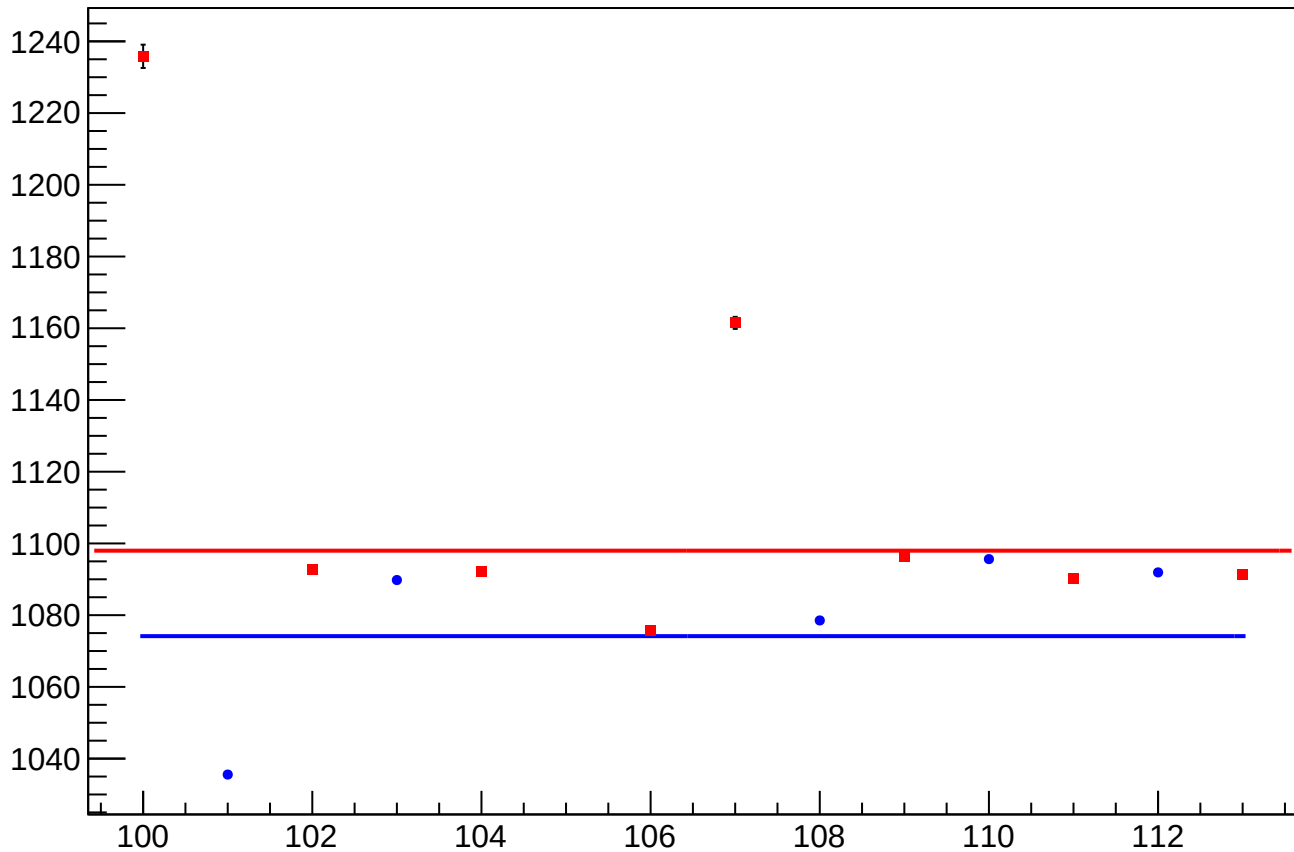
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -330.411 $\pm$ 451.070  $\chi^2$ /NDF: 24.9/12

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

# eigen\_cor\_asym\_usl\_rms vs Slug



Right In: 1074.150+/-0.477  $\chi^2/\text{NDF}$ : 2644.2/4

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

Right Out: 1097.982+/-0.429  $\chi^2/\text{NDF}$ : 3664.9/7

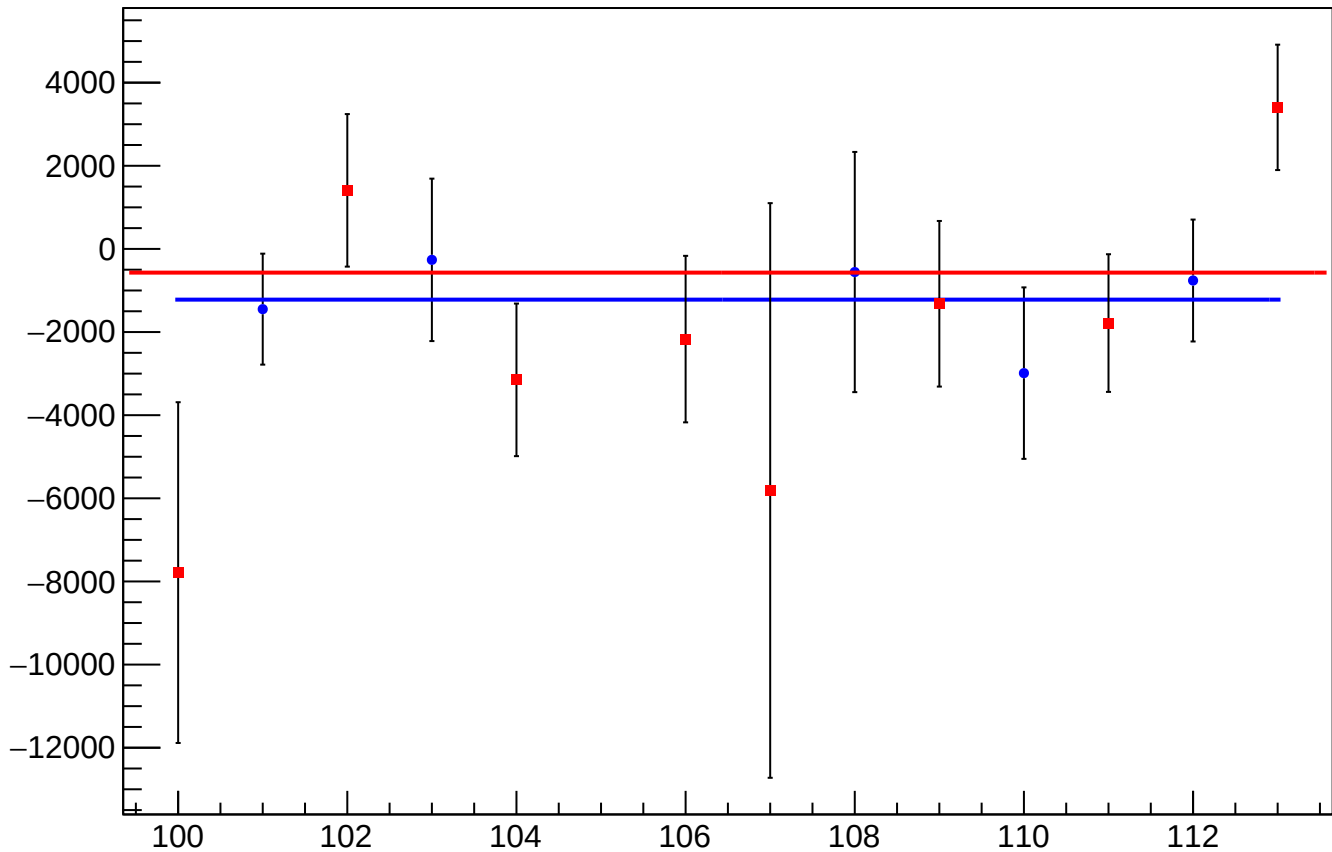
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1087.333+/-0.319  $\chi^2/\text{NDF}$ : 7689.1/12

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

# asym\_usl\_eigen\_cor\_correction\_mean vs Slug



Right In: -1220.237 $\pm$ 780.147  $\chi^2$ /NDF: 1.2/4

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

Right Out: -570.255 $\pm$ 710.725  $\chi^2$ /NDF: 15.1/7

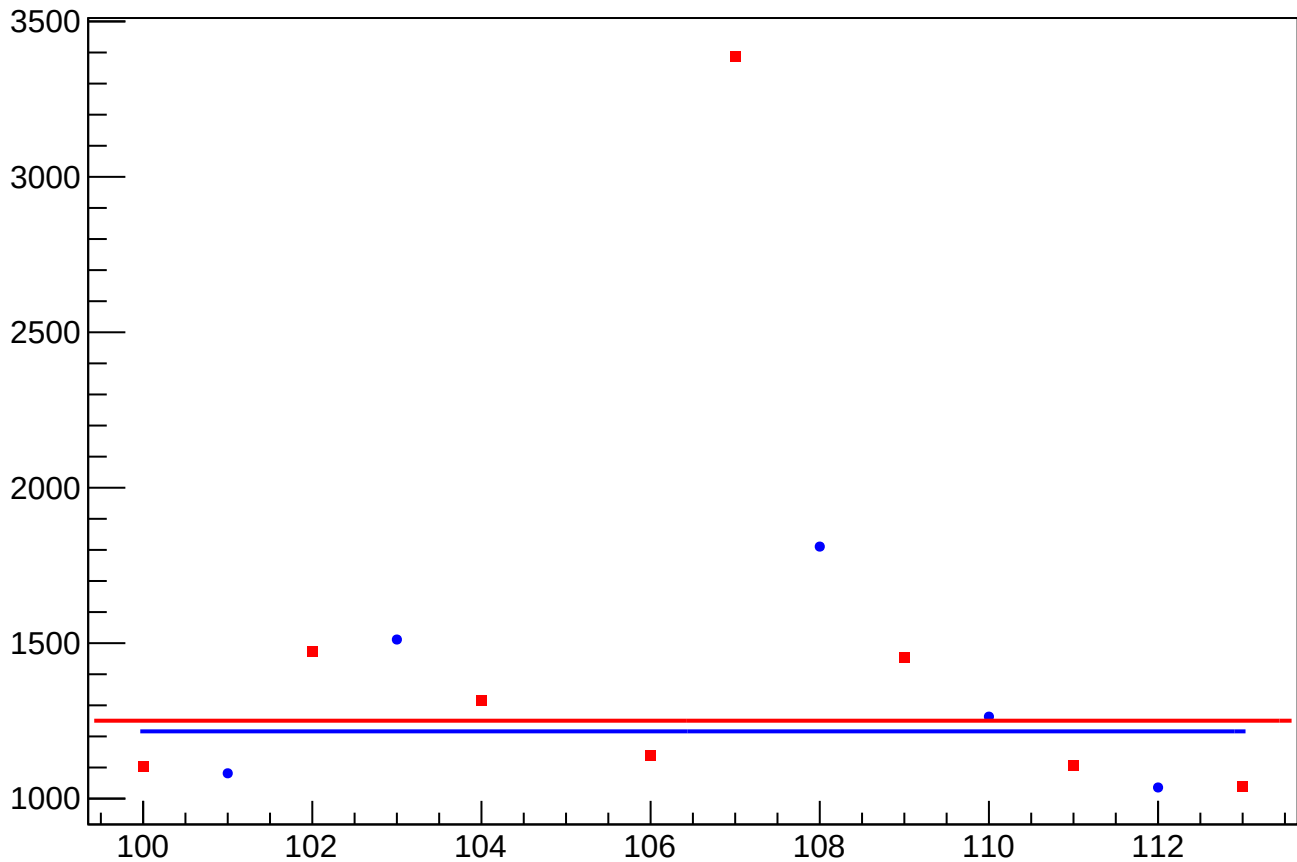
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -865.045 $\pm$ 525.391  $\chi^2$ /NDF: 16.6/12

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

# asym\_usl\_eigen\_cor\_correction\_rms vs Slug



Right In: 1216.332+/-0.552  $\chi^2/\text{NDF}$ : 182122.7/4

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

Right Out: 1250.581+/-0.503  $\chi^2/\text{NDF}$ : 307716.0/7

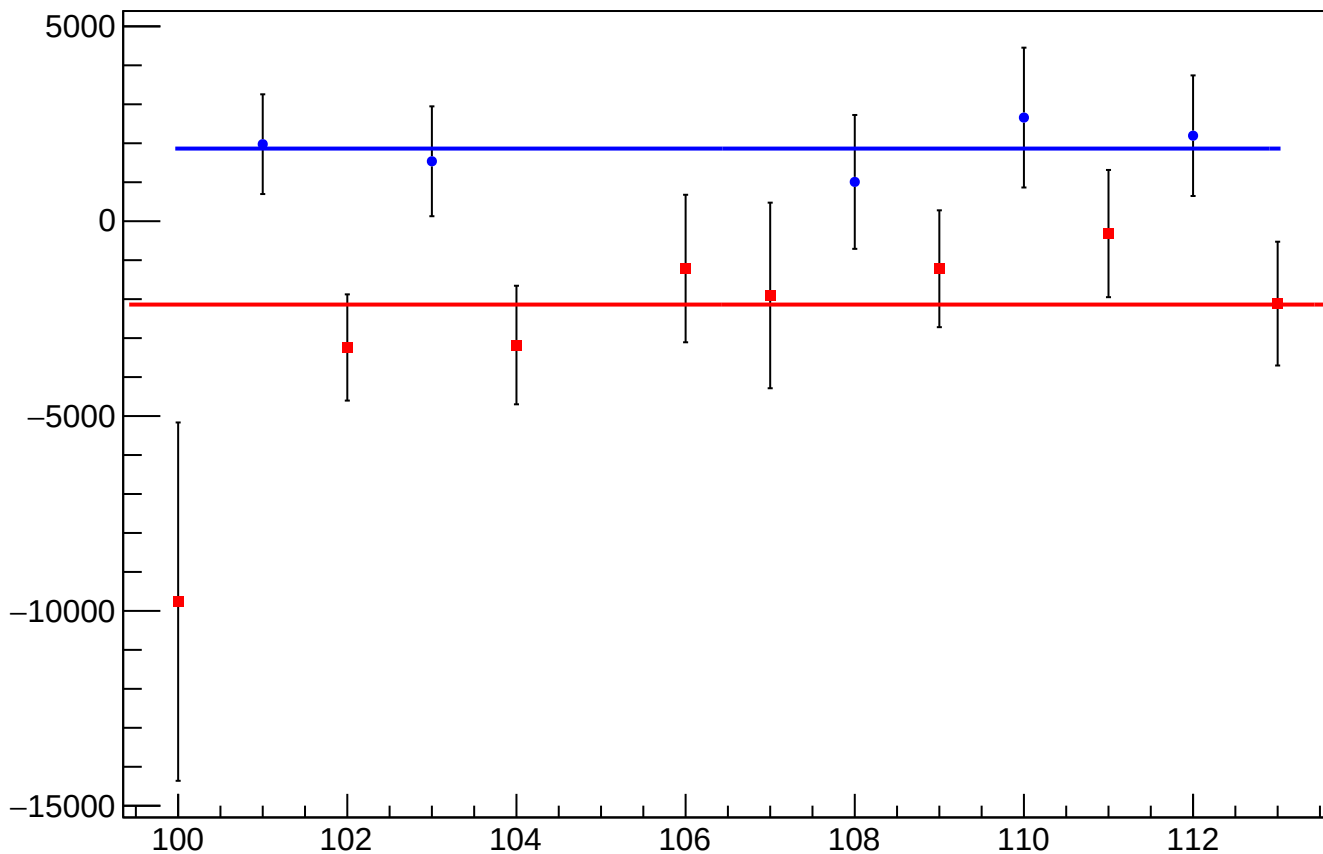
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1235.048+/-0.372  $\chi^2/\text{NDF}$ : 491945.0/12

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

# dit\_asym\_usl\_mean vs Slug



Right In: 1863.786 $\pm$ 677.124  $\chi^2$ /NDF: 0.6/4

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

Right Out: -2139.243 $\pm$ 609.749  $\chi^2$ /NDF: 5.7/7

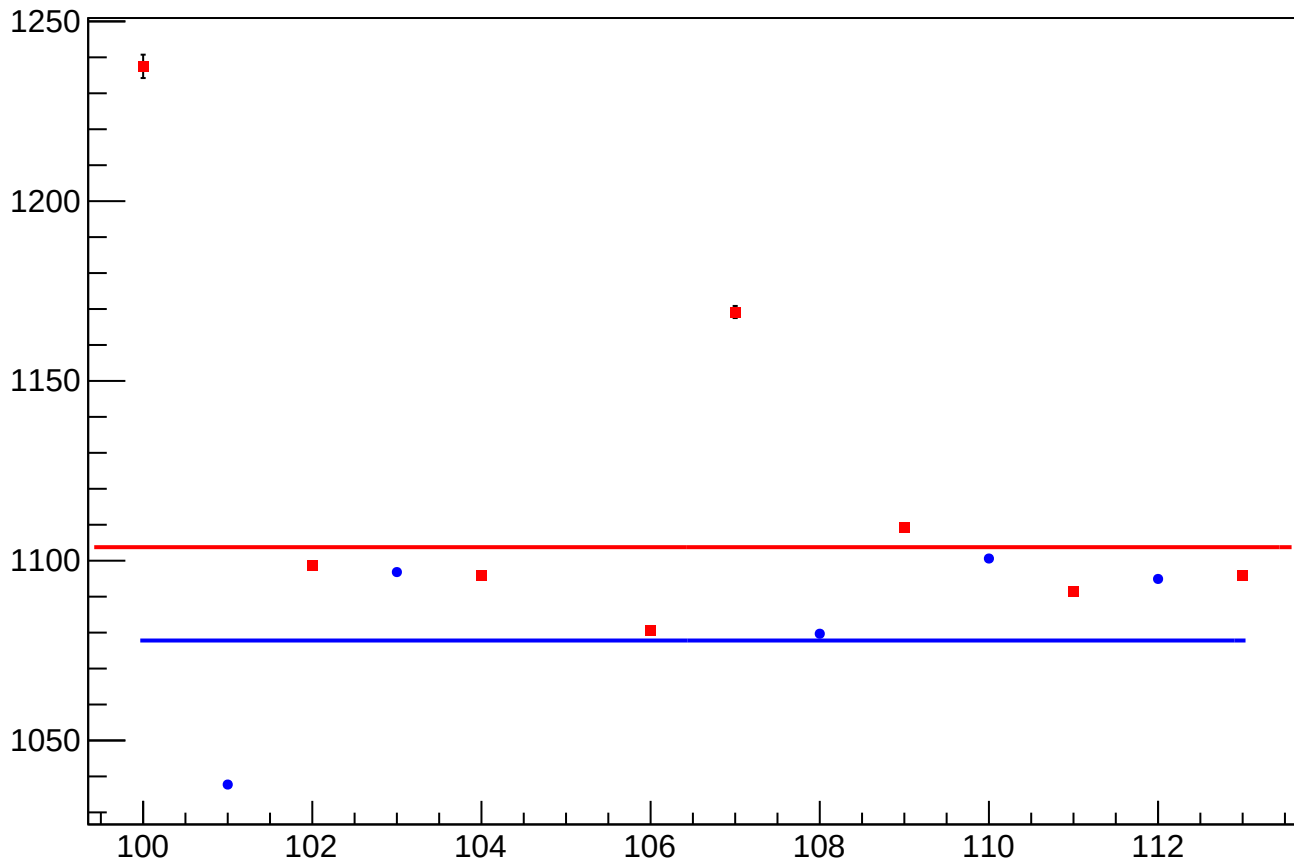
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -346.737 $\pm$ 453.110  $\chi^2$ /NDF: 25.6/12

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

# dit\_asym\_usl\_rms vs Slug



Right In: 1077.801+/-0.479  $\chi^2/\text{NDF}$ : 2894.7/4

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

Right Out: 1103.763+/-0.431  $\chi^2/\text{NDF}$ : 3773.0/7

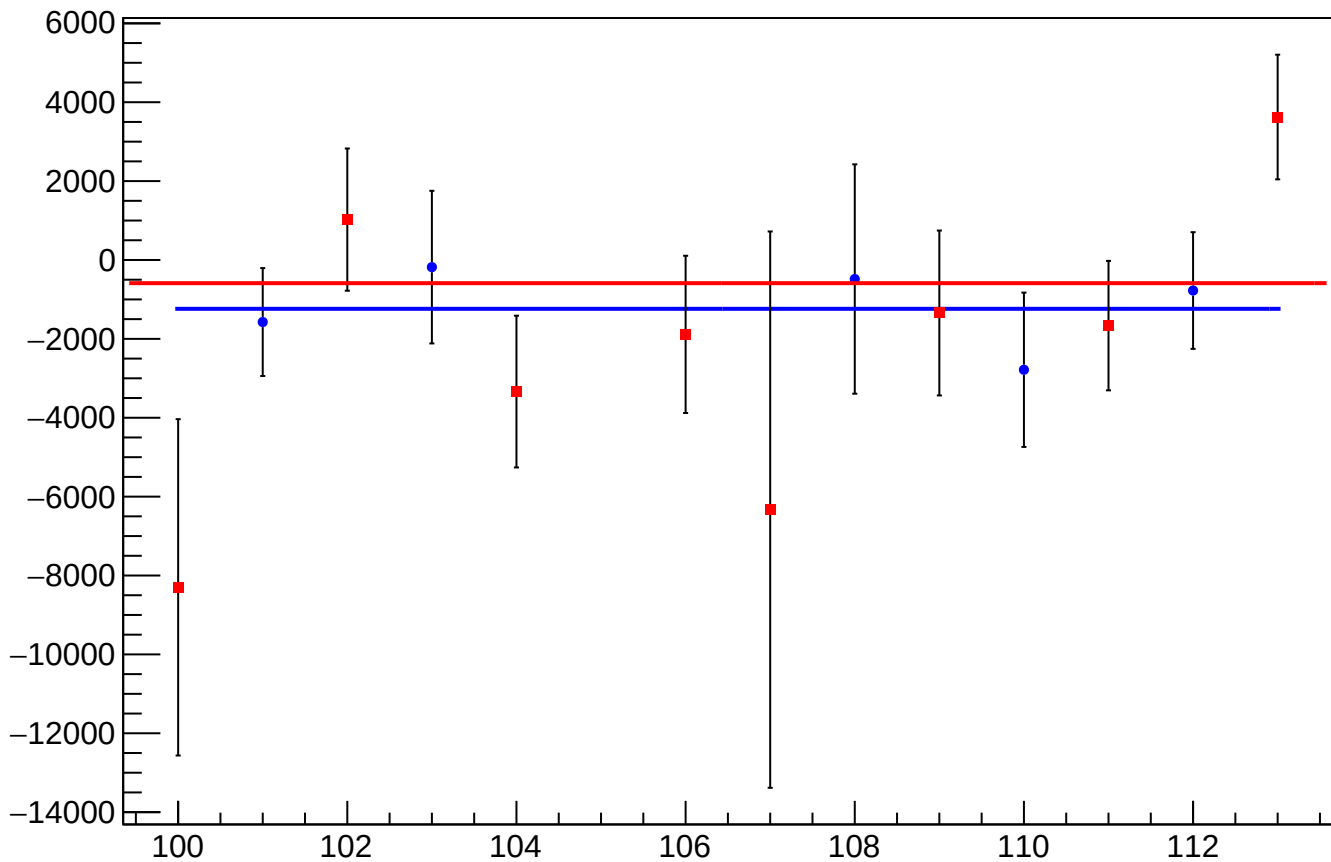
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1092.138+/-0.320  $\chi^2/\text{NDF}$ : 8291.2/12

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

# asym\_usl\_dit\_correction\_mean vs Slug



Right In: -1237.801+/-781.346  $\chi^2/\text{NDF}$ : 1.1/4

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

Right Out: -587.518+/-724.583  $\chi^2/\text{NDF}$ : 14.9/7

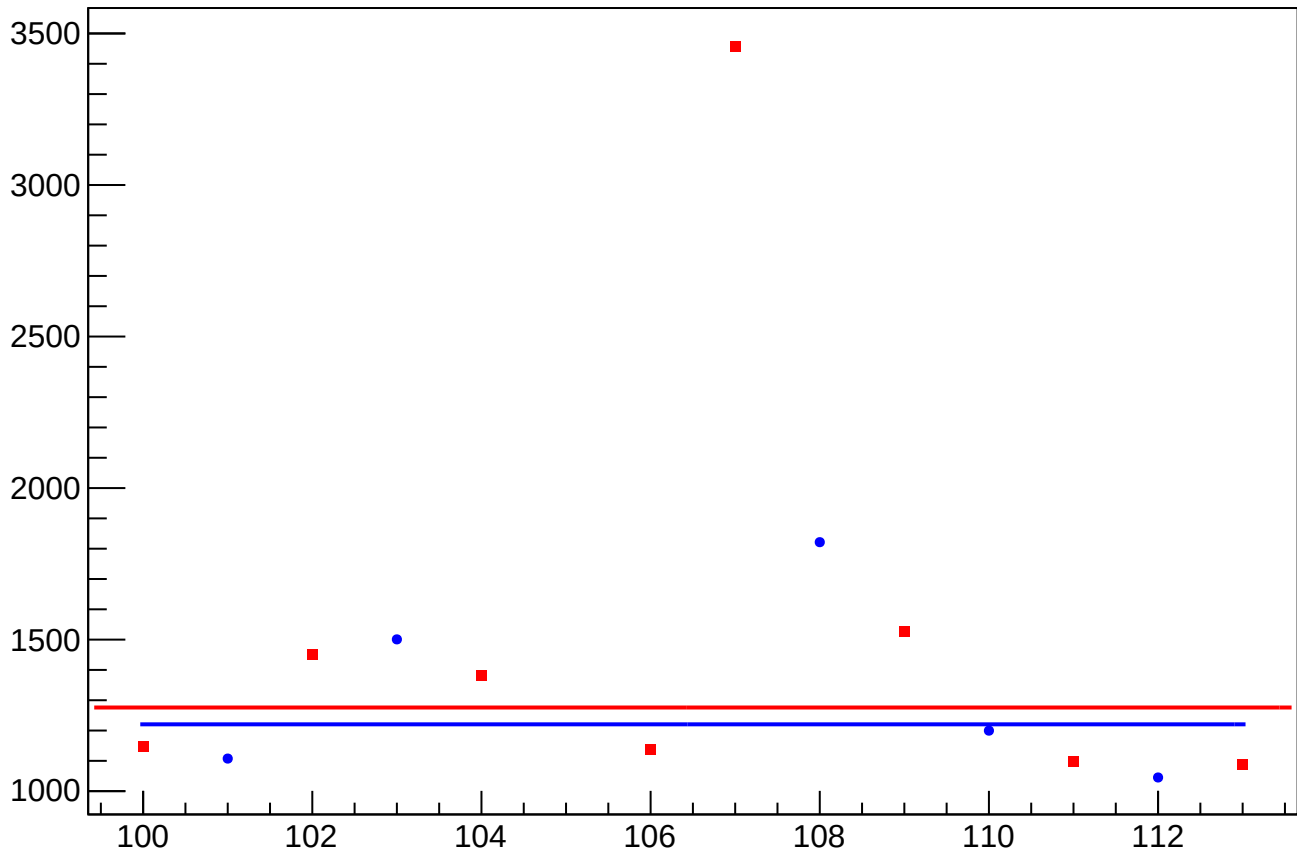
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -888.183+/-531.293  $\chi^2/\text{NDF}$ : 16.4/12

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

# asym\_usl\_dit\_correction\_rms vs Slug



Right In: 1220.500 $\pm$ 0.552  $\chi^2$ /NDF: 169415.6/4

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

Right Out: 1275.993 $\pm$ 0.512  $\chi^2$ /NDF: 308318.5/7

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

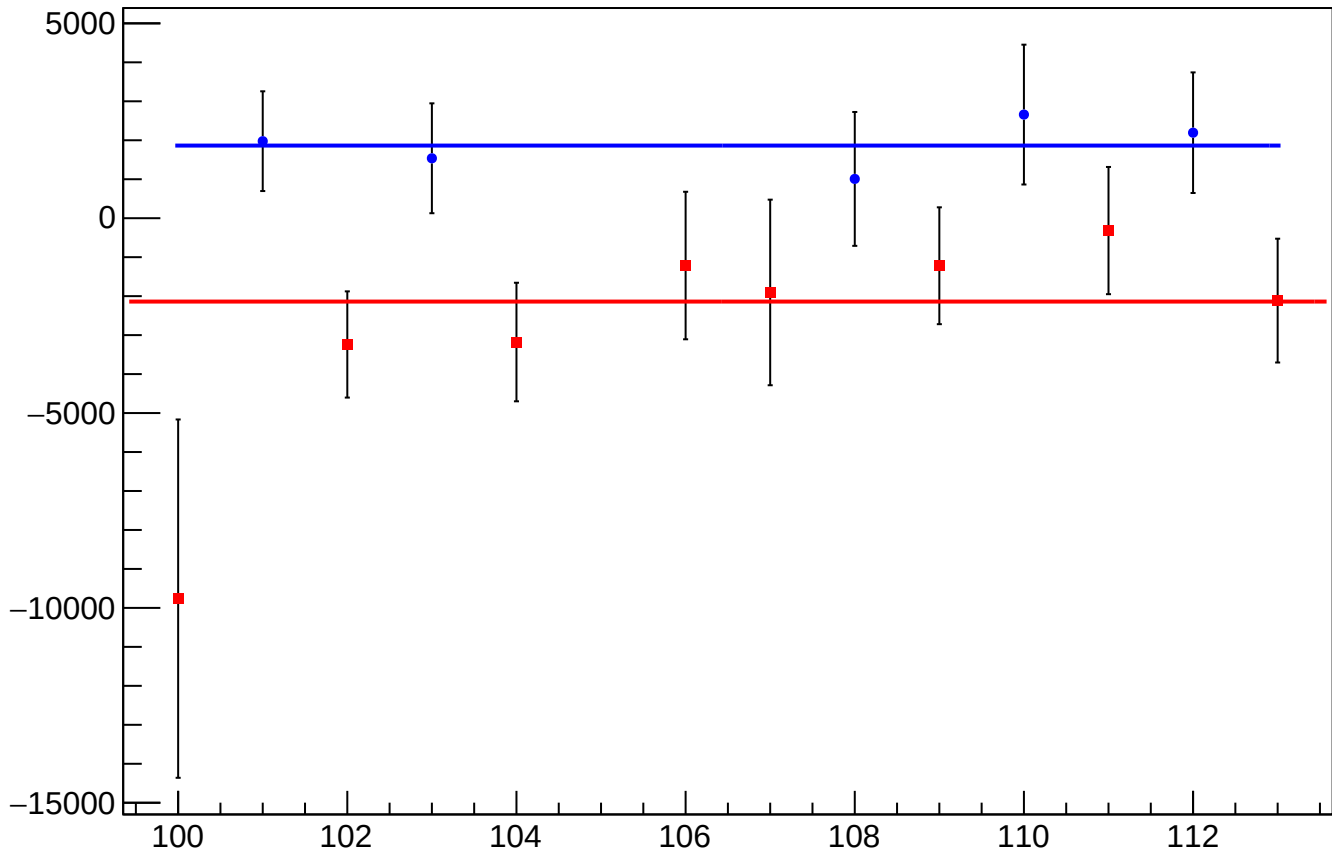
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1250.335 $\pm$ 0.376  $\chi^2$ /NDF: 483158.1/12

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



# eigen\_dit\_asym\_usl\_mean vs Slug



Right In: 1863.787 $\pm$ 677.124  $\chi^2$ /NDF: 0.6/4

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

Right Out: -2139.240 $\pm$ 609.749  $\chi^2$ /NDF: 5.7/7

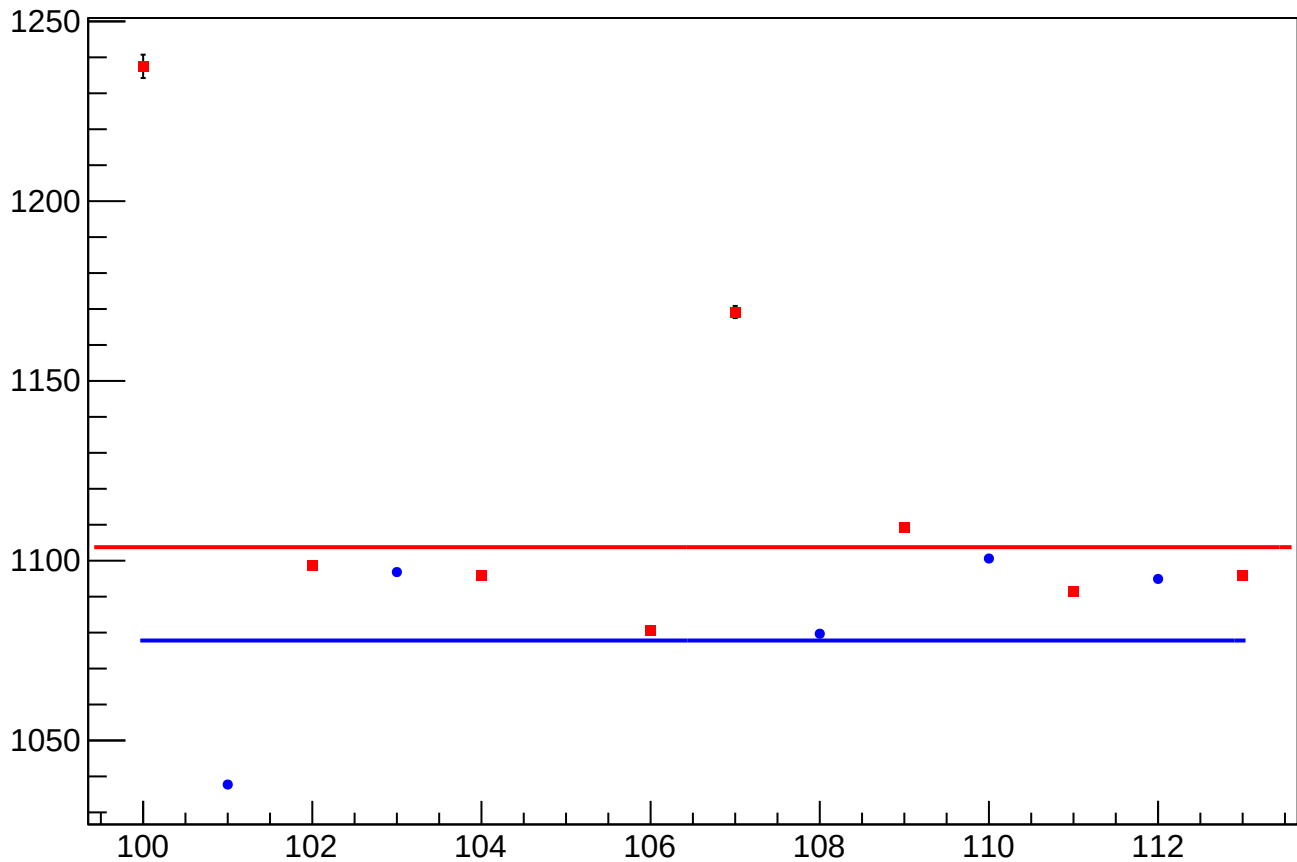
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -346.735 $\pm$ 453.110  $\chi^2$ /NDF: 25.6/12

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

# eigen\_dit\_asym\_usl\_rms vs Slug



Right In: 1077.801 $\pm$ 0.479  $\chi^2$ /NDF: 2894.7/4

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

Right Out: 1103.763 $\pm$ 0.431  $\chi^2$ /NDF: 3772.9/7

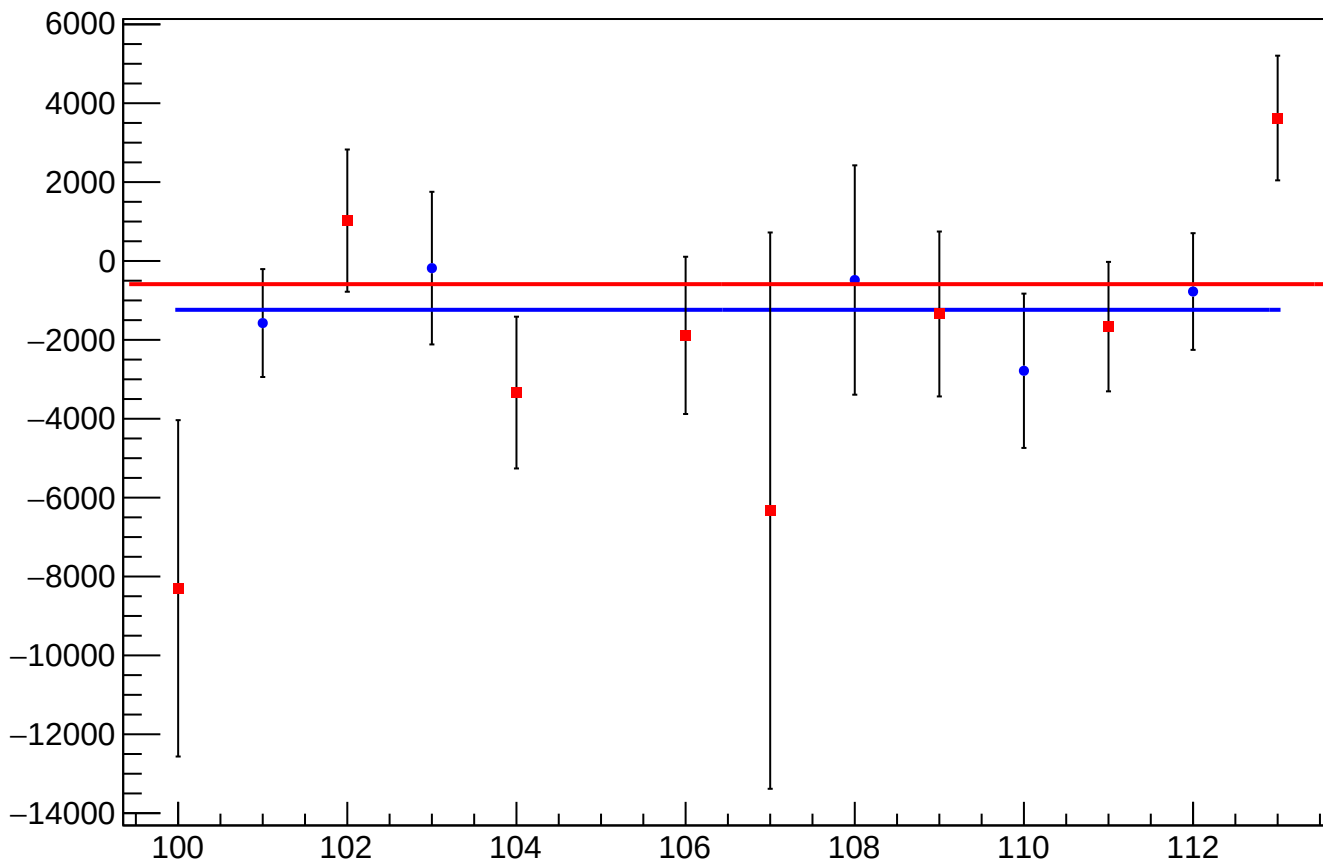
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1092.137 $\pm$ 0.320  $\chi^2$ /NDF: 8291.1/12

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

# asym\_usl\_eigen\_dit\_correction\_mean vs Slug



Right In:  $-1237.800 \pm 781.346$   $\chi^2/\text{NDF}$ : 1.1/4

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

Right Out:  $-587.518 \pm 724.582$   $\chi^2/\text{NDF}$ : 14.9/7

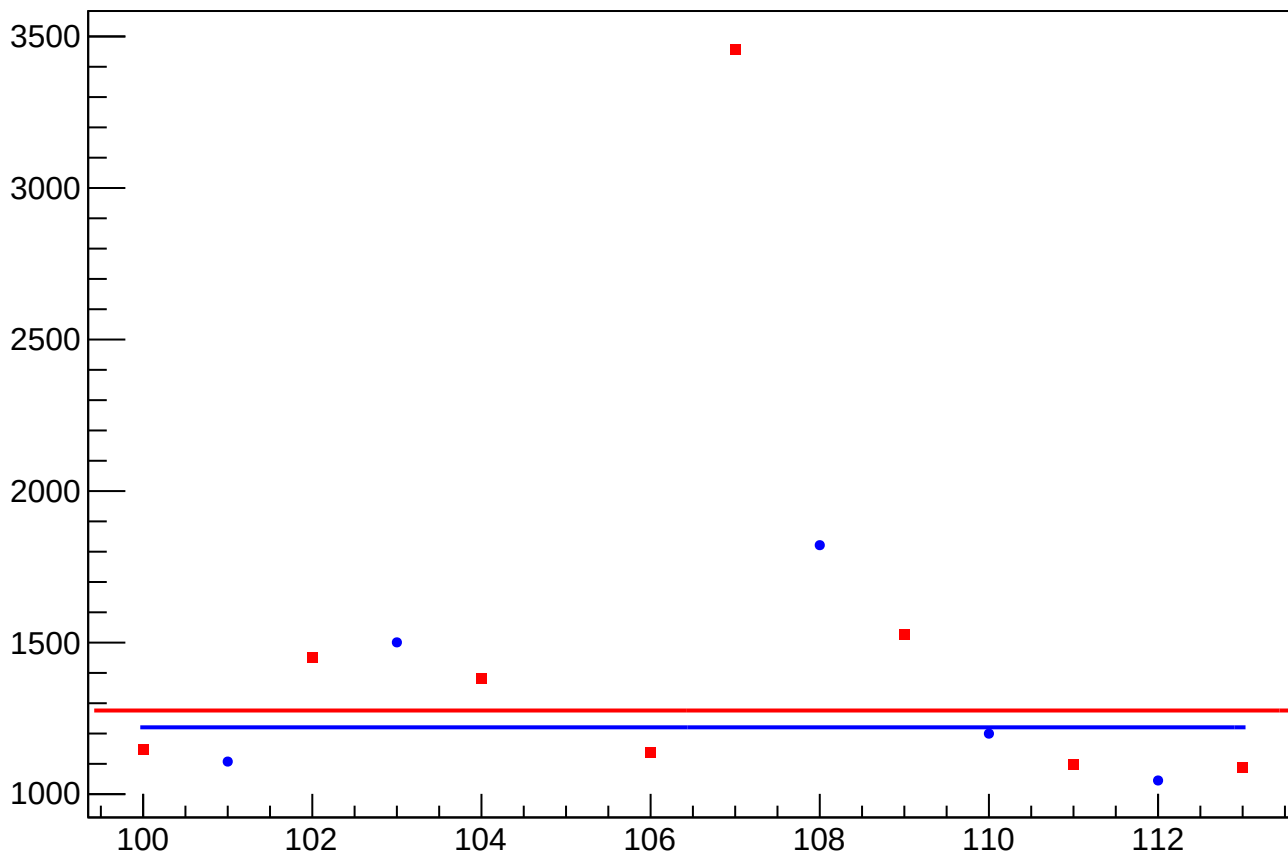
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-888.182 \pm 531.292$   $\chi^2/\text{NDF}$ : 16.4/12

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

# asym\_usl\_eigen\_dit\_correction\_rms vs Slug



Right In: 1220.499+/-0.552  $\chi^2/\text{NDF}$ : 169414.9/4

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

Right Out: 1275.992+/-0.512  $\chi^2/\text{NDF}$ : 308315.6/7

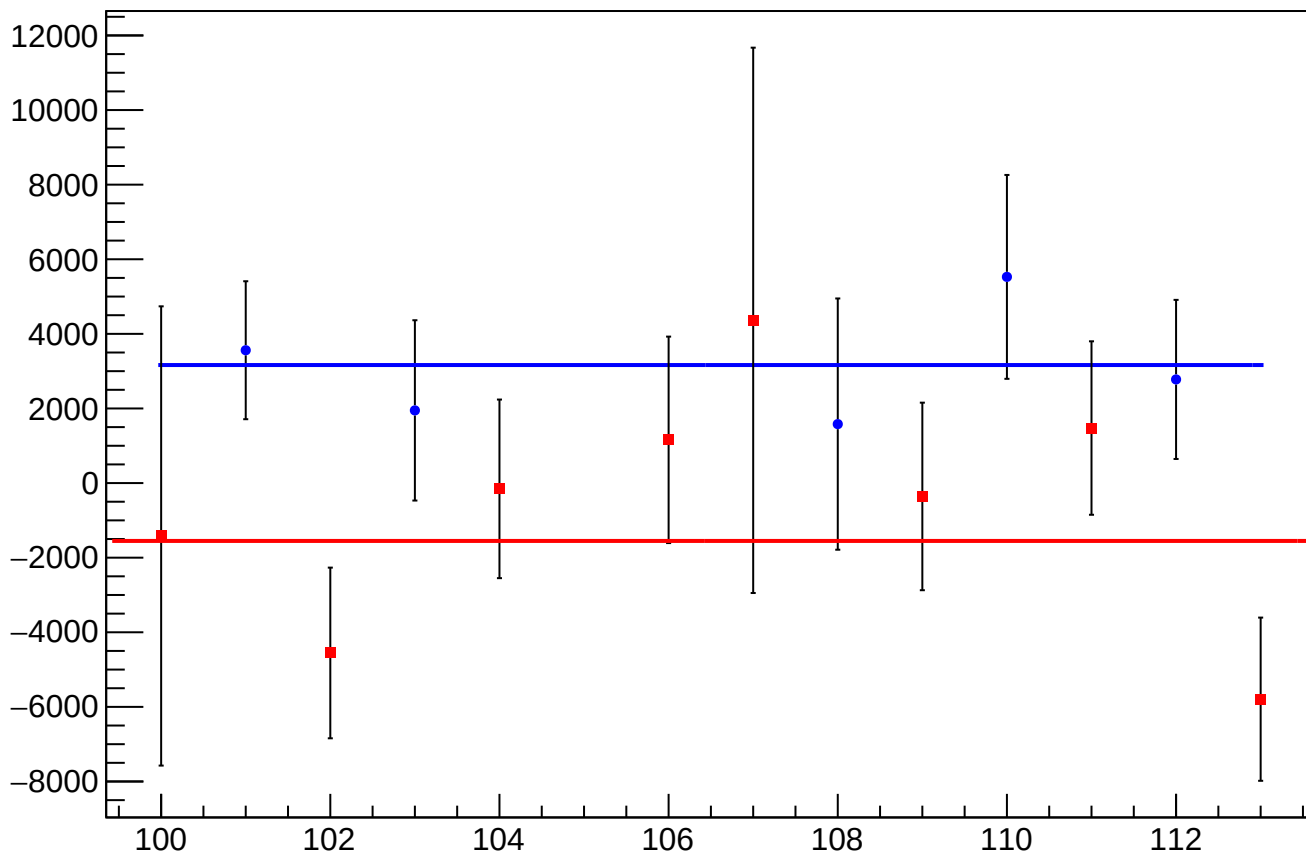
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1250.334+/-0.376  $\chi^2/\text{NDF}$ : 483154.5/12

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

# asym\_usl\_mean vs Slug



Right In: 3164.235 $\pm$ 1050.854  $\chi^2$ /NDF: 1.3/4

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

Right Out: -1551.333 $\pm$ 956.354  $\chi^2$ /NDF: 9.4/7

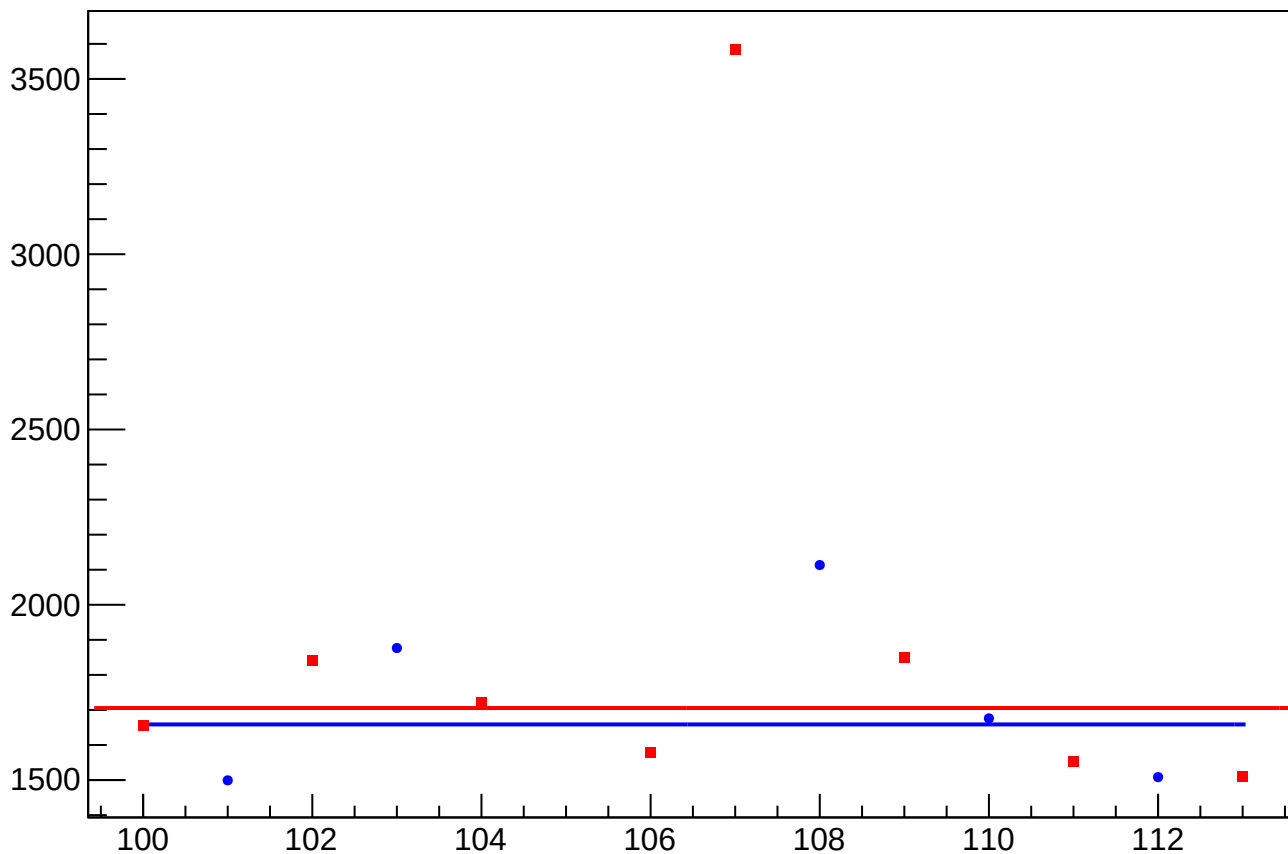
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 584.933 $\pm$ 707.299  $\chi^2$ /NDF: 21.7/12

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

# asym\_usl\_rms vs Slug



Right In: 1658.707 $\pm$ 0.743  $\chi^2$ /NDF: 77606.2/4

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

Right Out: 1705.481 $\pm$ 0.676  $\chi^2$ /NDF: 174846.0/7

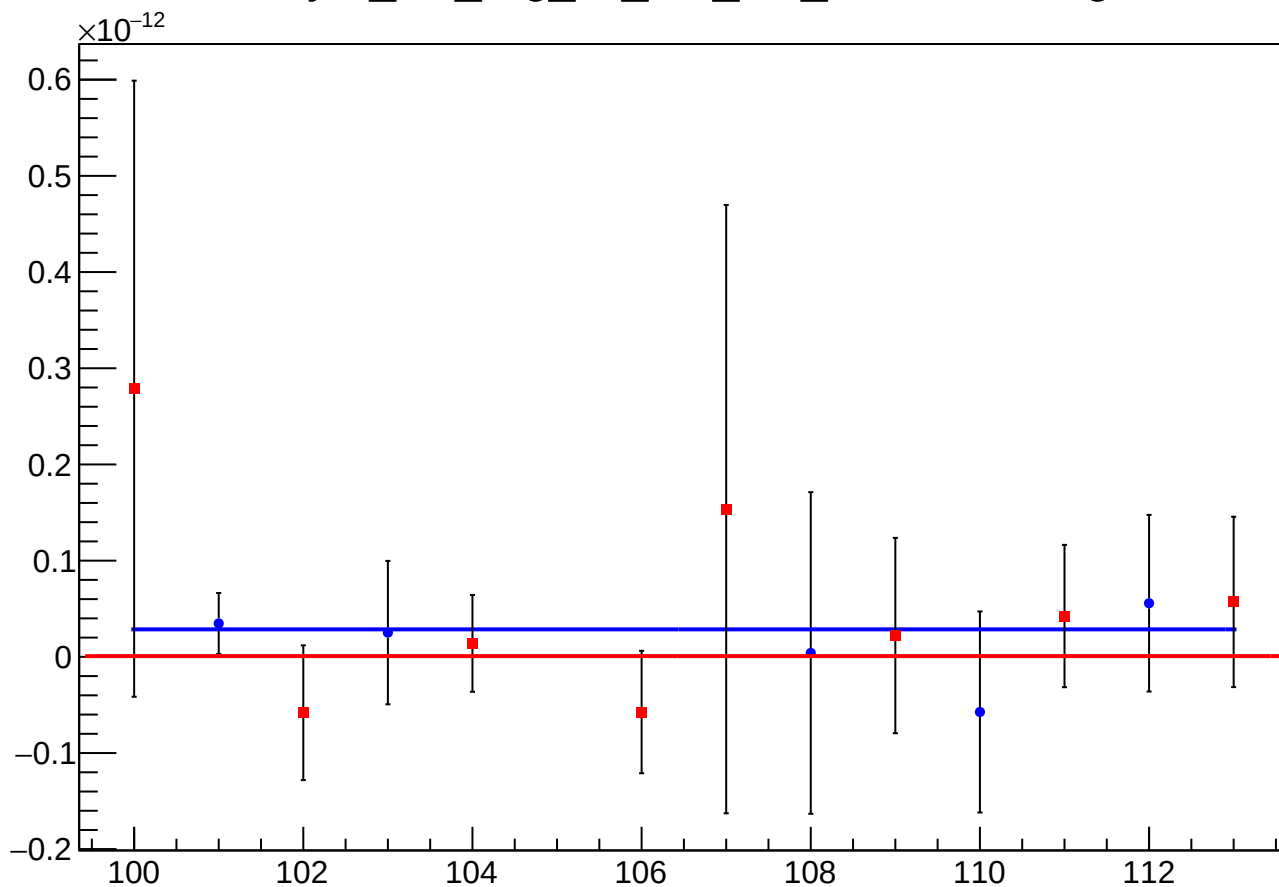
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1684.291 $\pm$ 0.500  $\chi^2$ /NDF: 254619.5/12

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

# asym\_usl\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.8/4

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

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.4/7

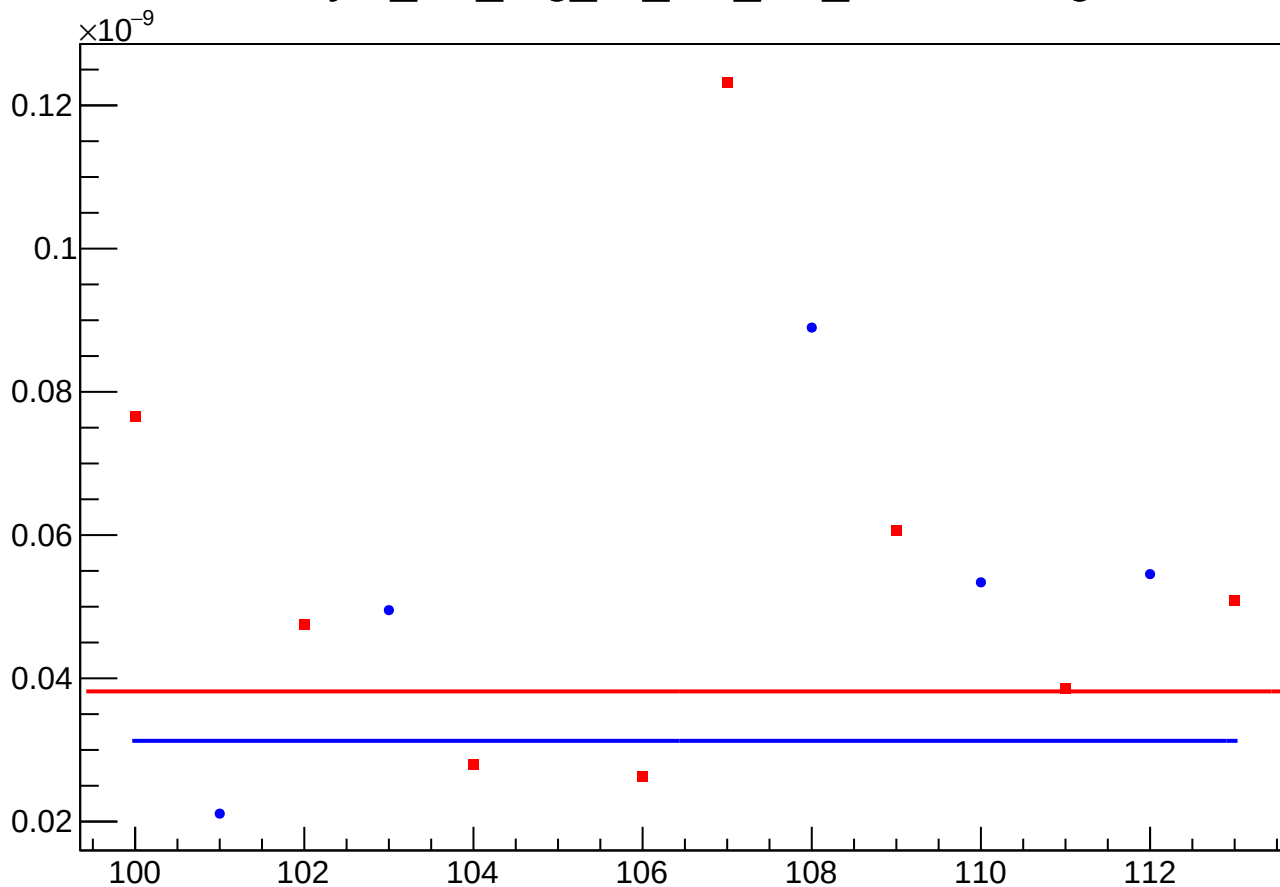
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.7/12

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

# asym\_usl\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 782553.0/4

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 501153.8/7

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

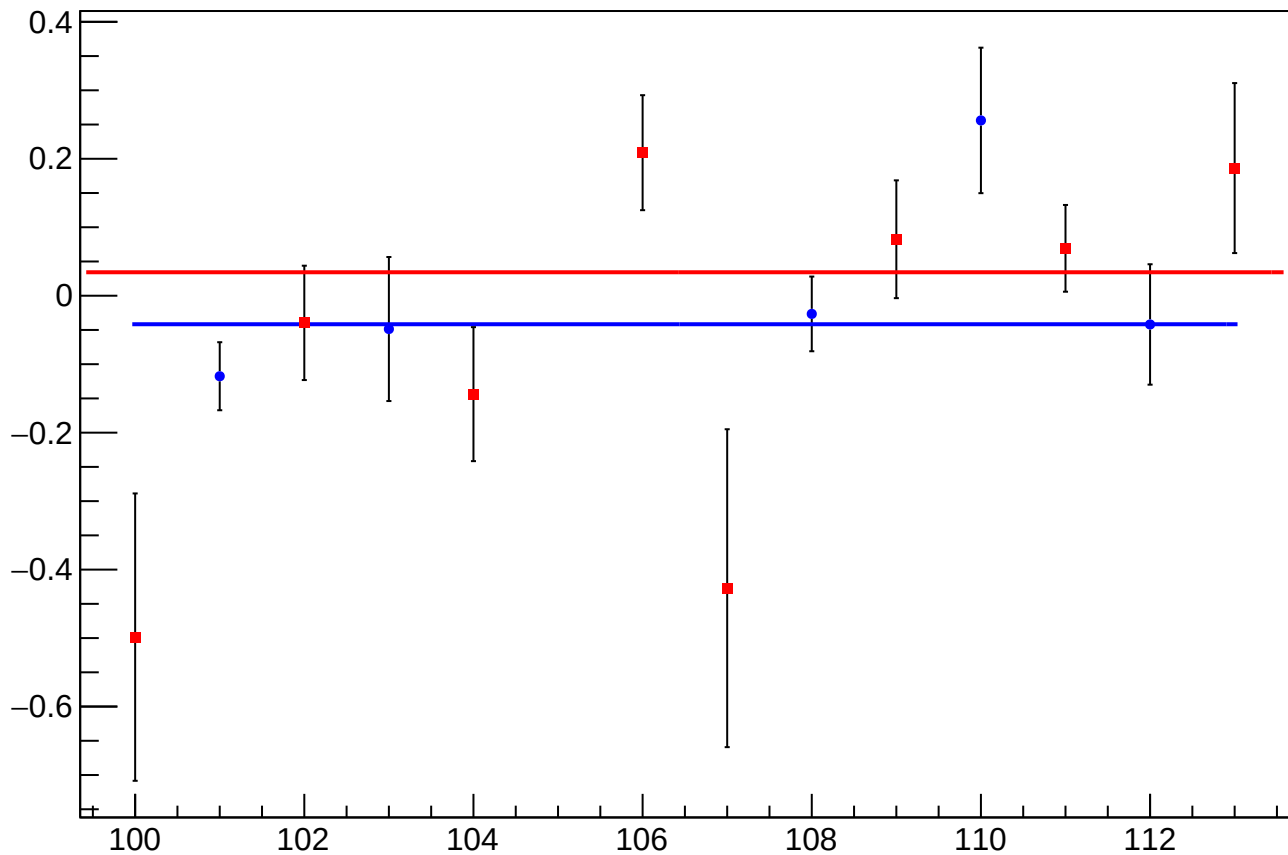
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1347779.0/12

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



# asym\_usl\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.042 $\pm$ 0.031  $\chi^2$ /NDF: 10.3/4

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

Right Out: 0.034 $\pm$ 0.034  $\chi^2$ /NDF: 20.9/7

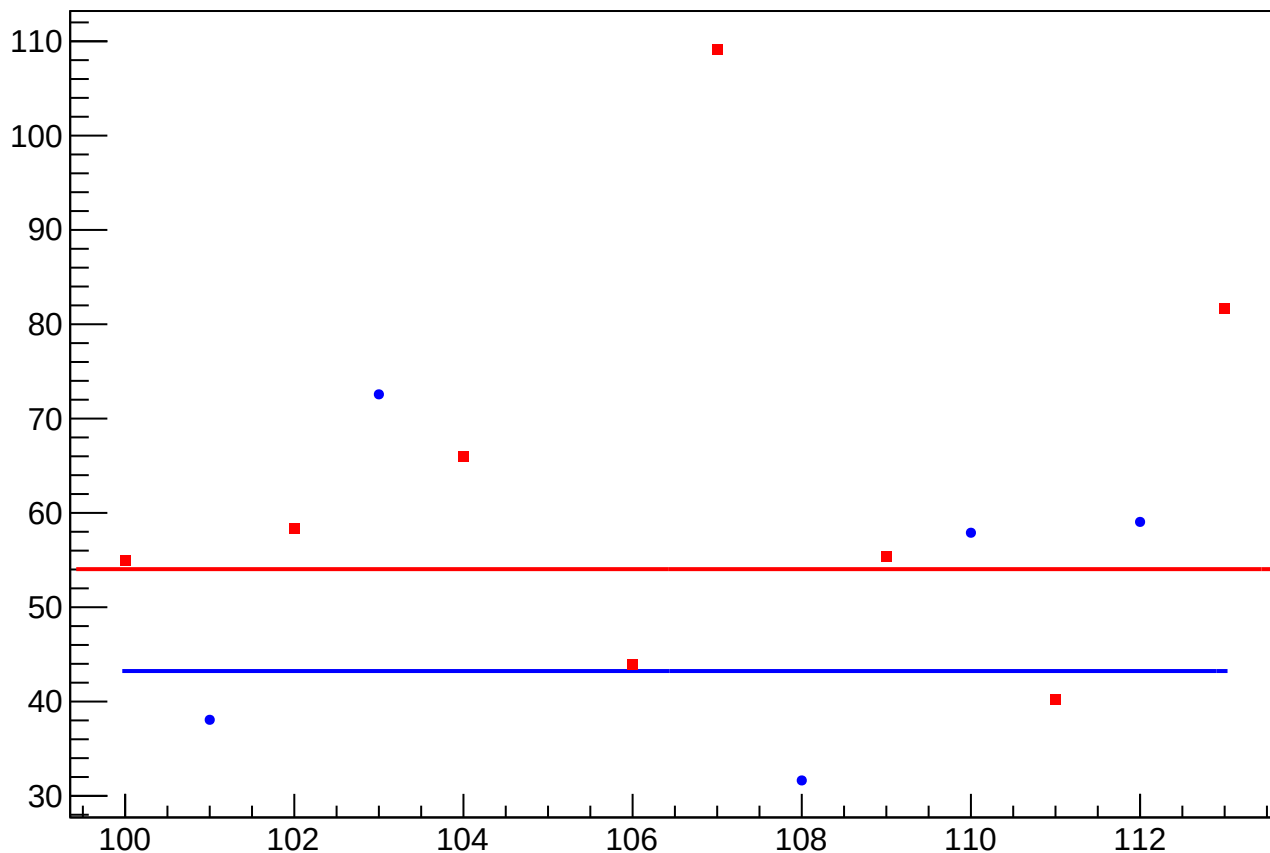
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.007 $\pm$ 0.023  $\chi^2$ /NDF: 34.0/12

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

# asym\_usl\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 43.235+/-0.022  $\chi^2/\text{NDF}$ : 370422.4/4

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

Right Out: 54.038+/-0.024  $\chi^2/\text{NDF}$ : 372356.3/7

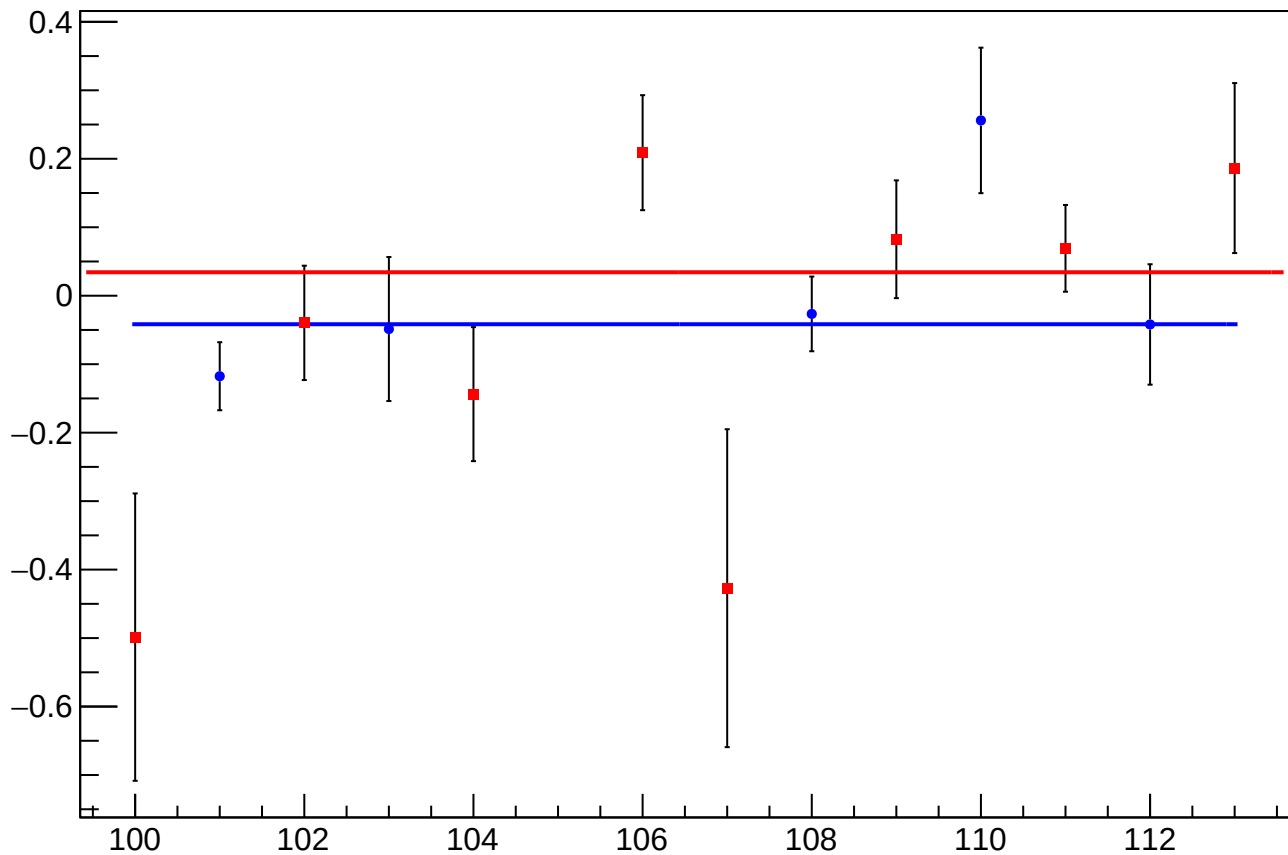
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 48.162+/-0.016  $\chi^2/\text{NDF}$ : 854518.4/12

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

# asym\_usl\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.042 $\pm$ 0.031  $\chi^2$ /NDF: 10.3/4

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

Right Out: 0.034 $\pm$ 0.034  $\chi^2$ /NDF: 20.9/7

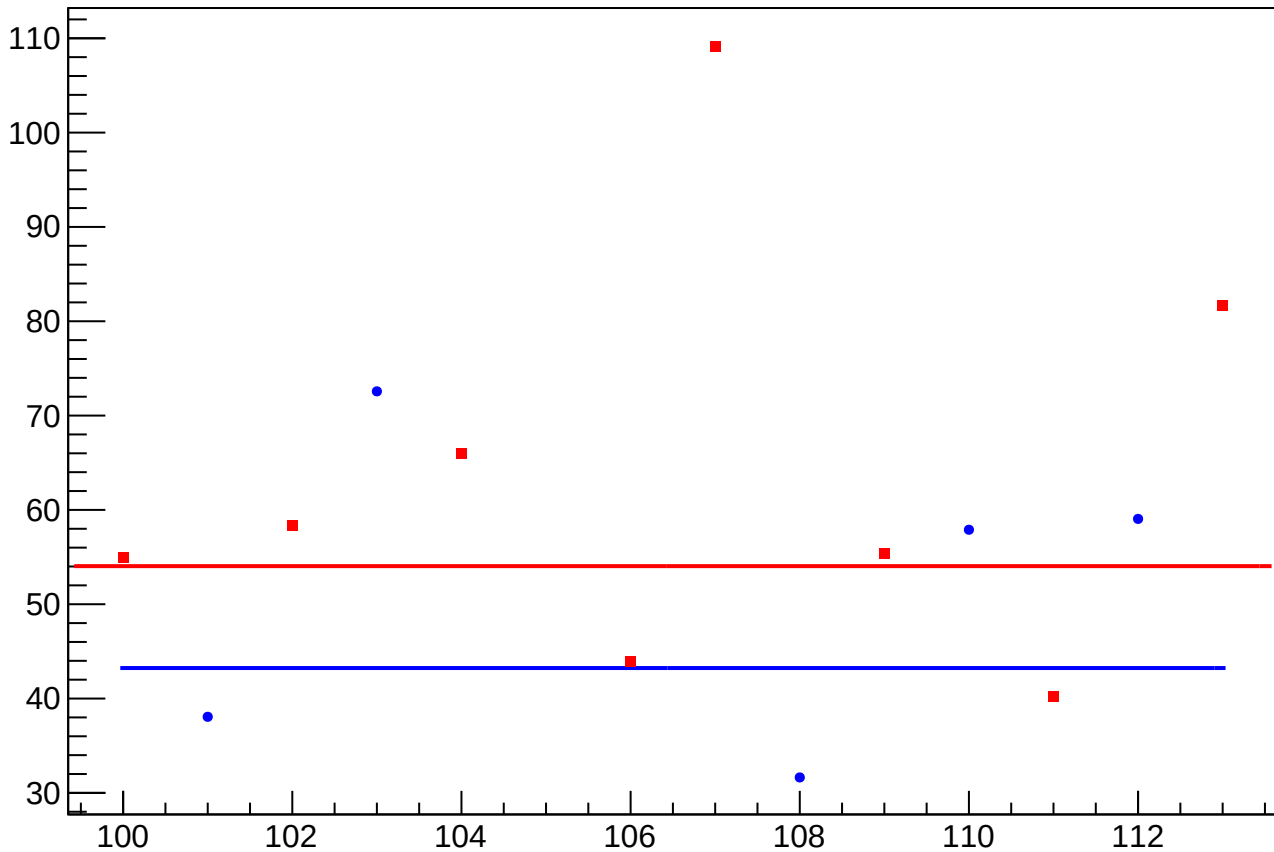
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.007 $\pm$ 0.023  $\chi^2$ /NDF: 34.0/12

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

# asym\_usl\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 43.235 $\pm$ 0.022  $\chi^2$ /NDF: 370422.4/4

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

Right Out: 54.038 $\pm$ 0.024  $\chi^2$ /NDF: 372356.3/7

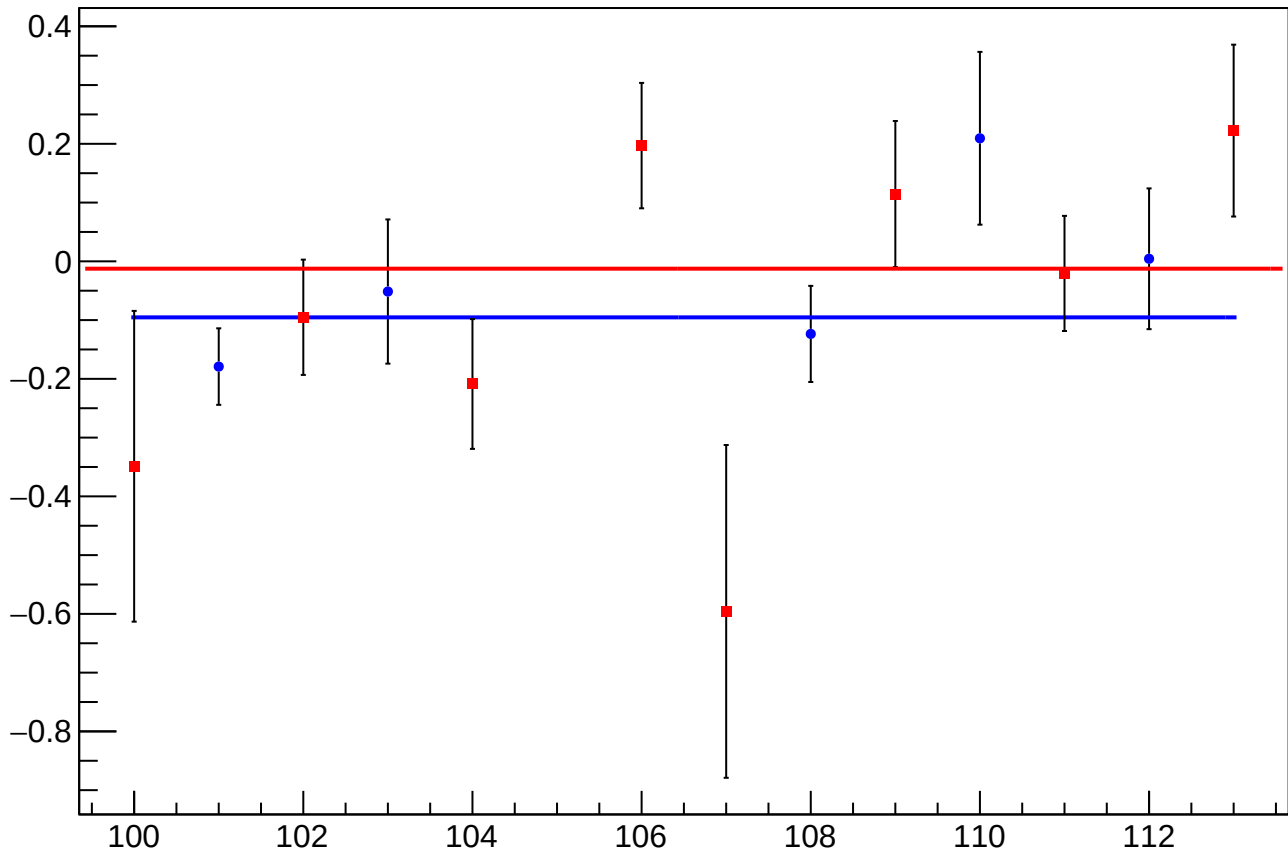
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 48.162 $\pm$ 0.016  $\chi^2$ /NDF: 854518.4/12

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

# asym\_usl\_dit\_vs\_overload\_cor\_diff\_mean vs Slug



Right In: -0.095 $\pm$ 0.042  $\chi^2$ /NDF: 6.9/4

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

Right Out: -0.013 $\pm$ 0.044  $\chi^2$ /NDF: 17.2/7

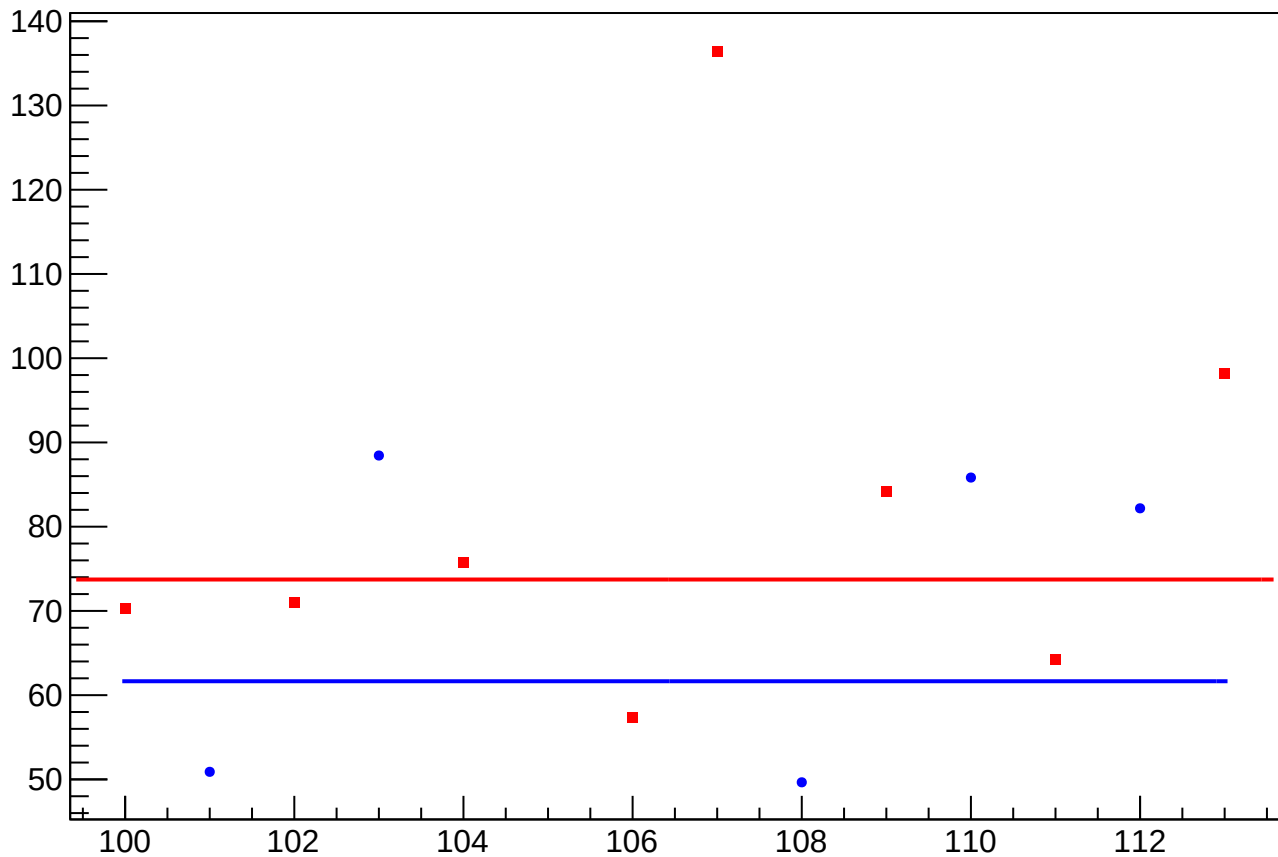
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.056 $\pm$ 0.030  $\chi^2$ /NDF: 26.0/12

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

# asym\_usl\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In: 61.652+/-0.030  $\chi^2/\text{NDF}$ : 305793.9/4

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

Right Out: 73.729+/-0.031  $\chi^2/\text{NDF}$ : 236616.3/7

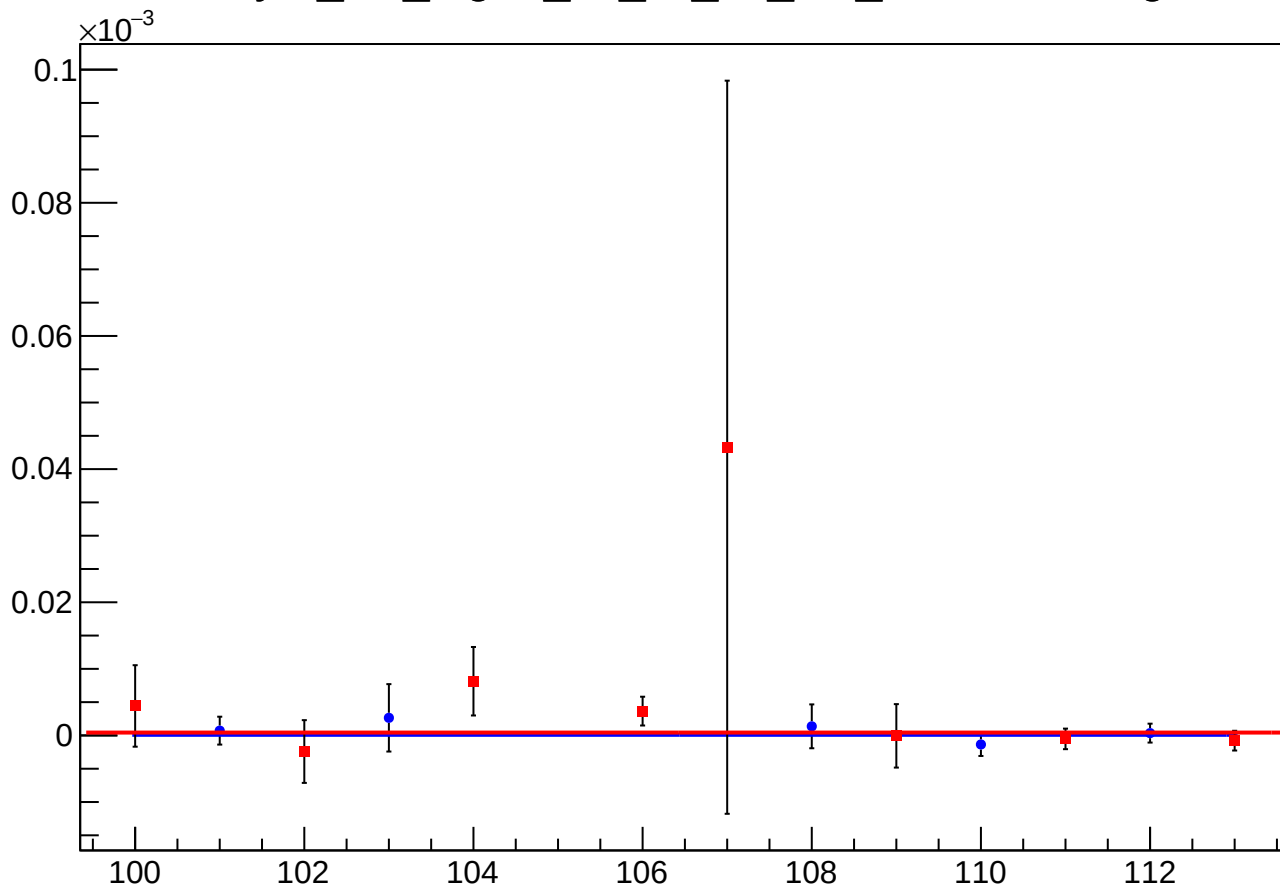
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 67.403+/-0.021  $\chi^2/\text{NDF}$ : 621262.0/12

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

# asym\_usl\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.2/4

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

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.9/7

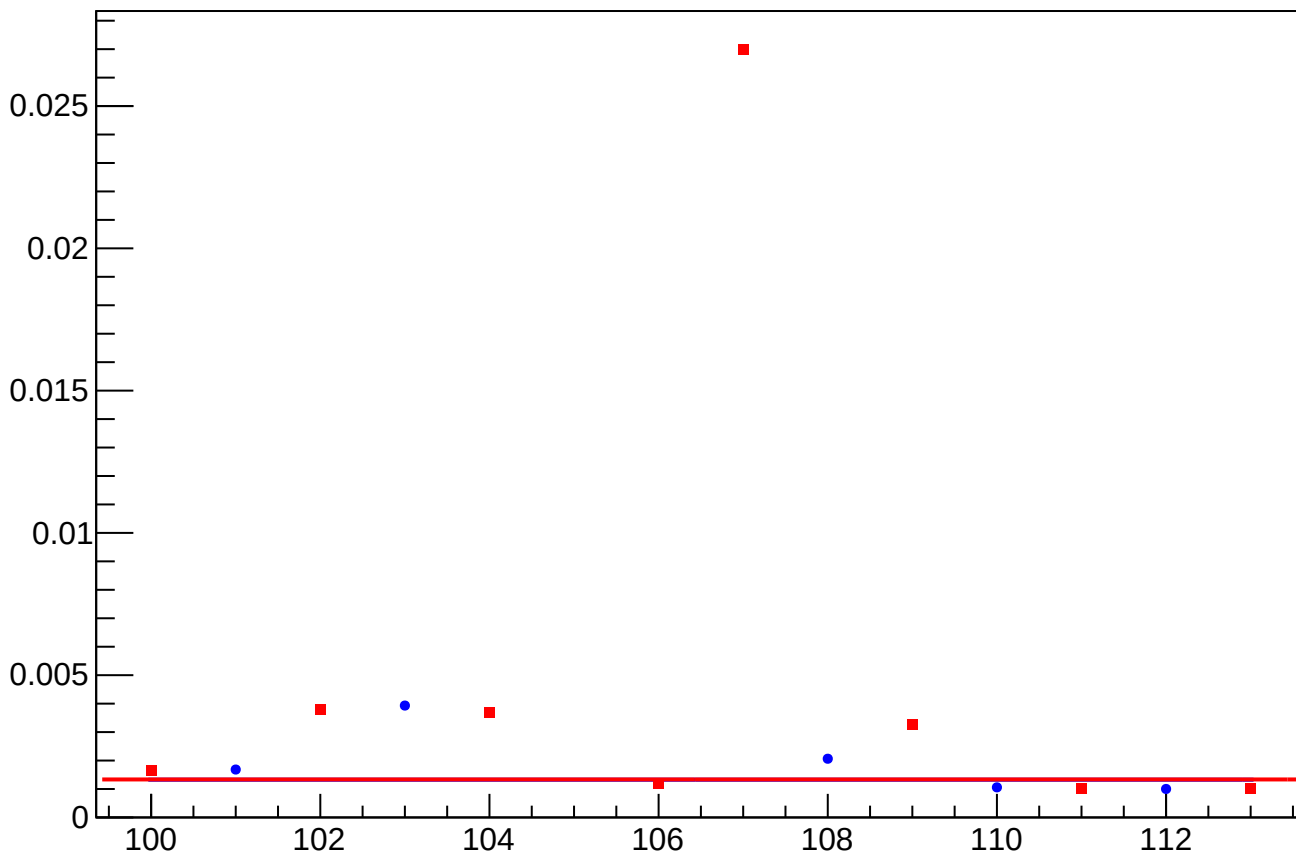
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.2/12

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

# asym\_usl\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 841482.6/4

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

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1906975.6/7

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

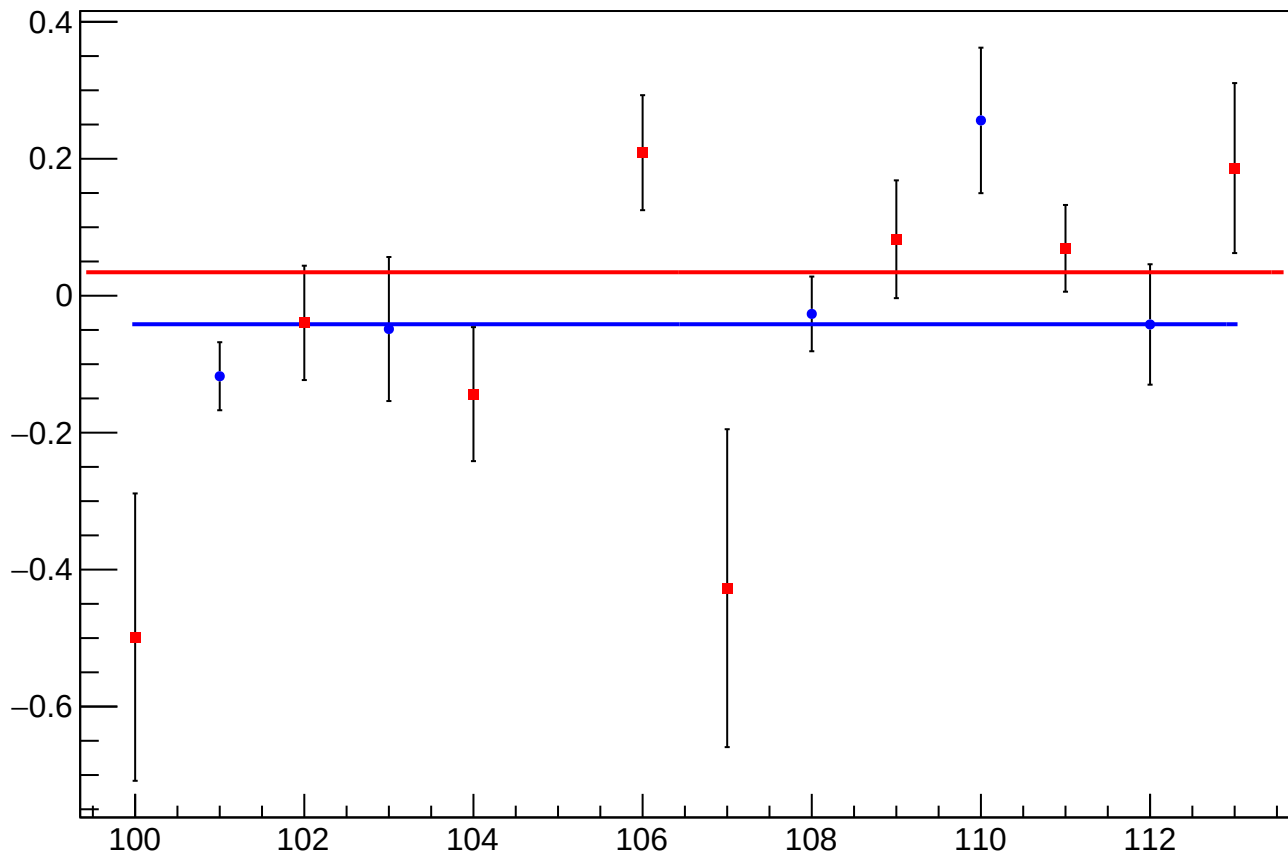
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2748560.5/12

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



# asym\_usl\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.042 $\pm$ 0.031  $\chi^2$ /NDF: 10.3/4

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

Right Out: 0.034 $\pm$ 0.034  $\chi^2$ /NDF: 20.9/7

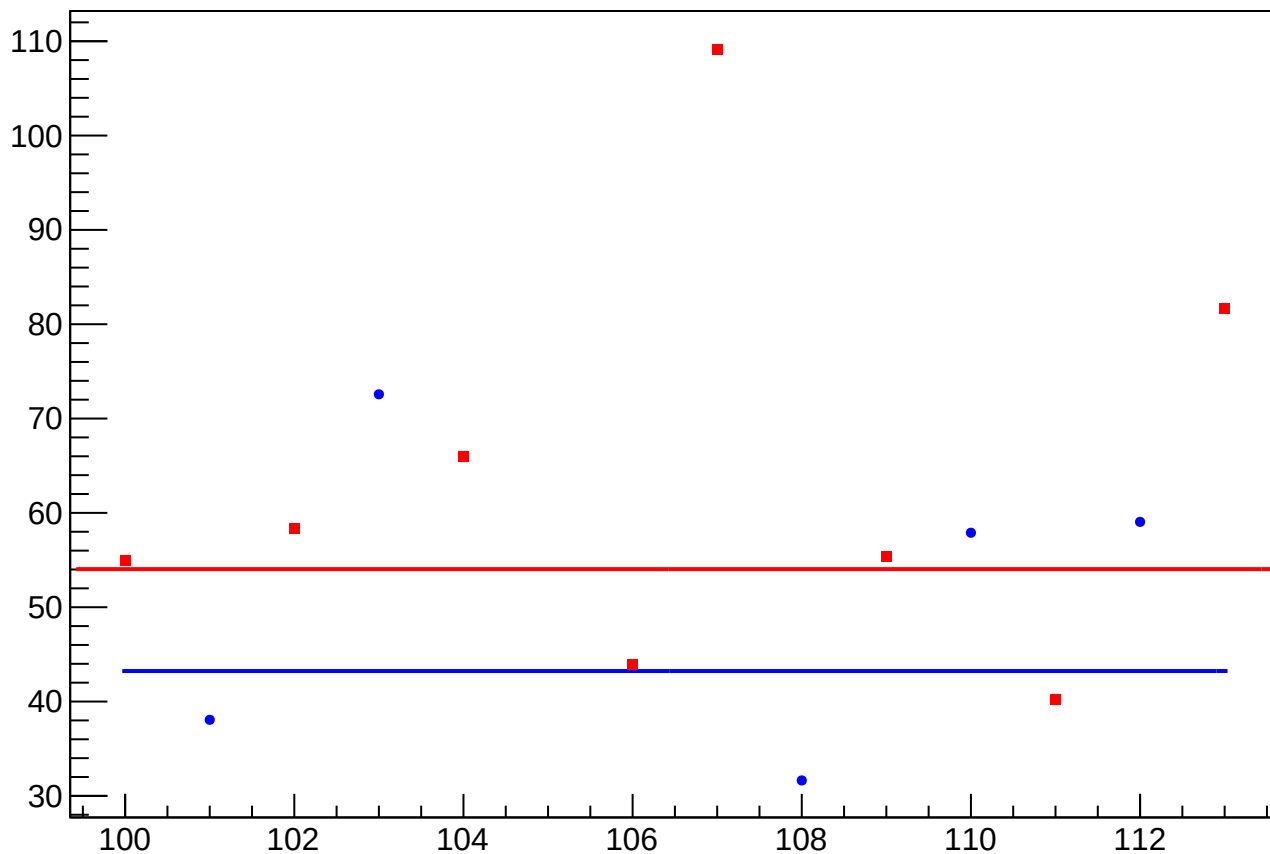
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.007 $\pm$ 0.023  $\chi^2$ /NDF: 34.0/12

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

# asym\_usl\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 43.235 $\pm$ 0.022  $\chi^2$ /NDF: 370418.7/4

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

Right Out: 54.038 $\pm$ 0.024  $\chi^2$ /NDF: 372339.2/7

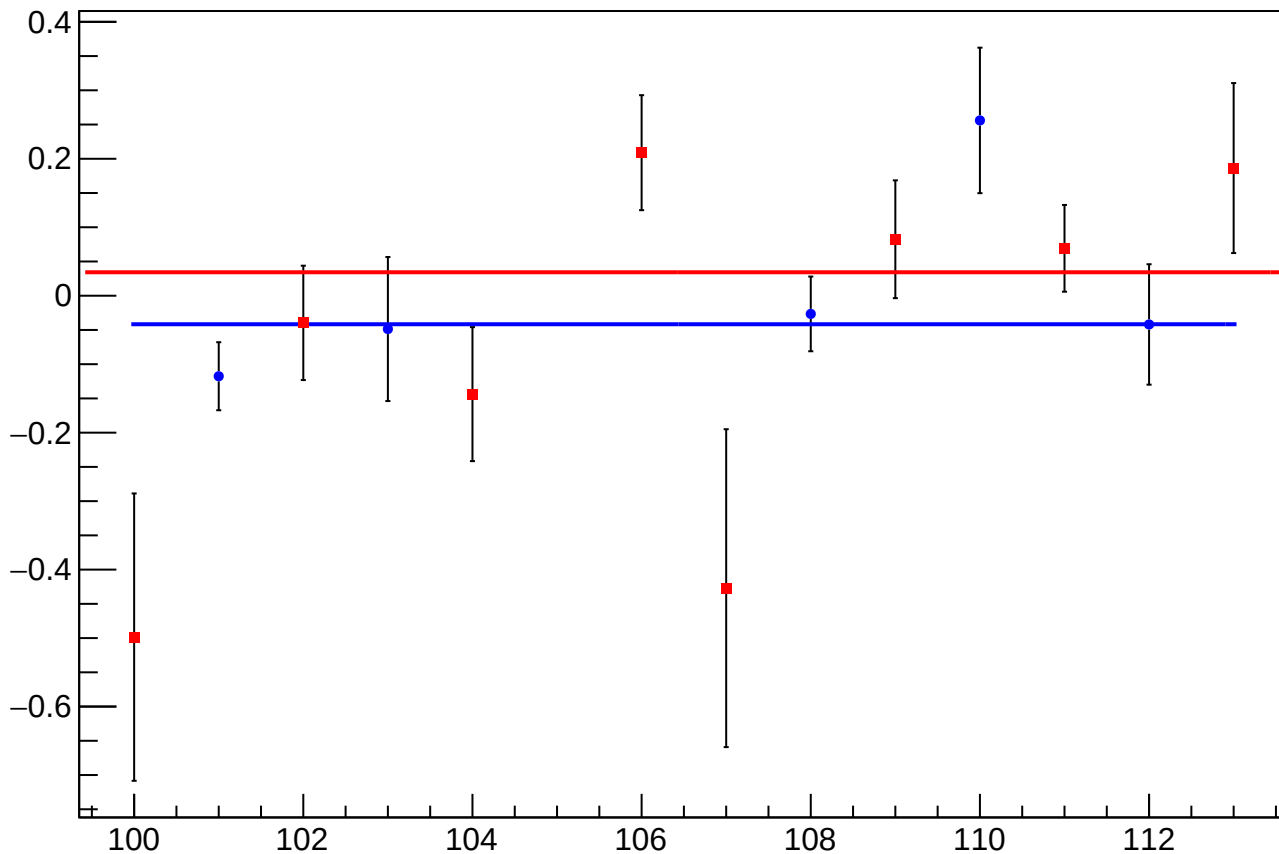
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 48.162 $\pm$ 0.016  $\chi^2$ /NDF: 854495.7/12

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

asym\_usl\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.042 $\pm$ 0.031  $\chi^2$ /NDF: 10.3/4

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

Right Out: 0.034 $\pm$ 0.034  $\chi^2$ /NDF: 20.9/7

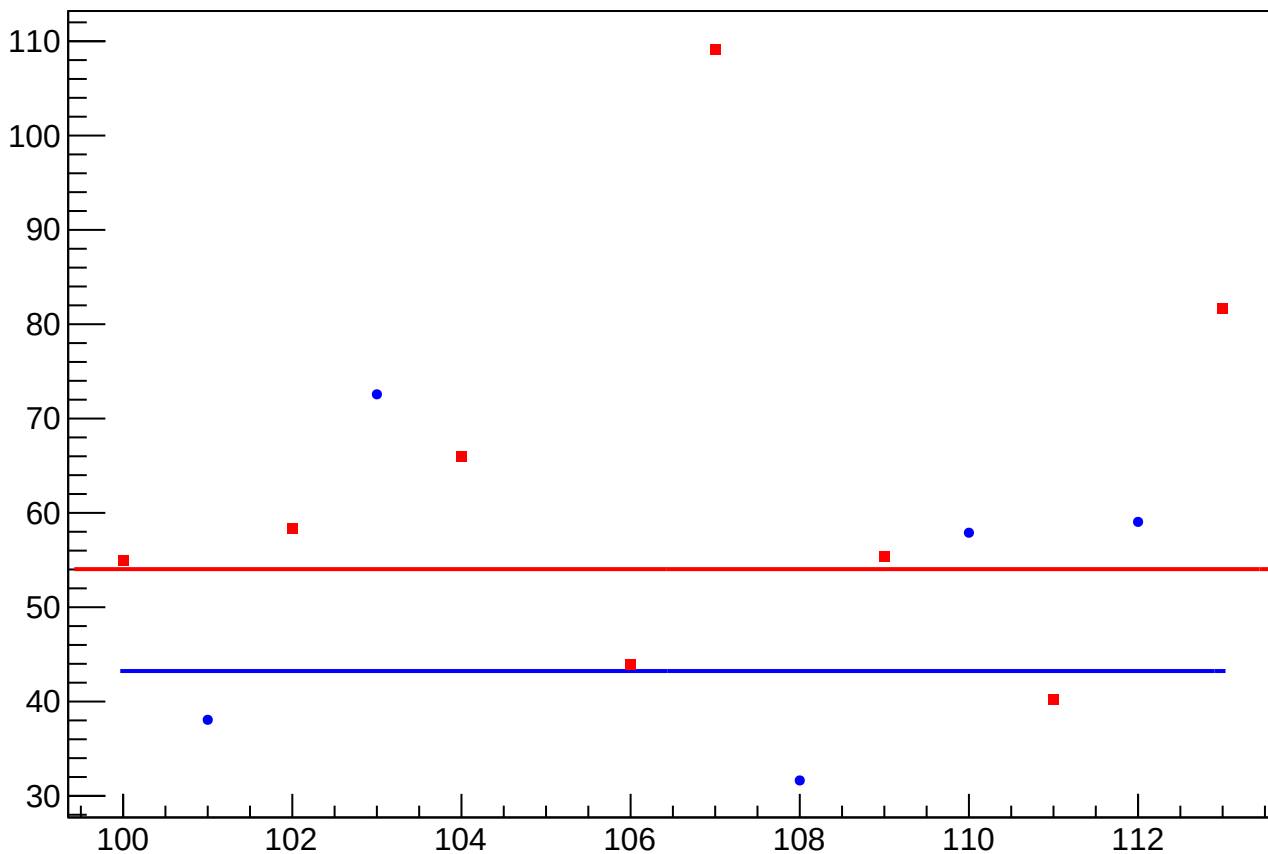
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.007 $\pm$ 0.023  $\chi^2$ /NDF: 34.0/12

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

# asym\_usl\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 43.235+/-0.022  $\chi^2/\text{NDF}$ : 370418.7/4

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

Right Out: 54.038+/-0.024  $\chi^2/\text{NDF}$ : 372339.2/7

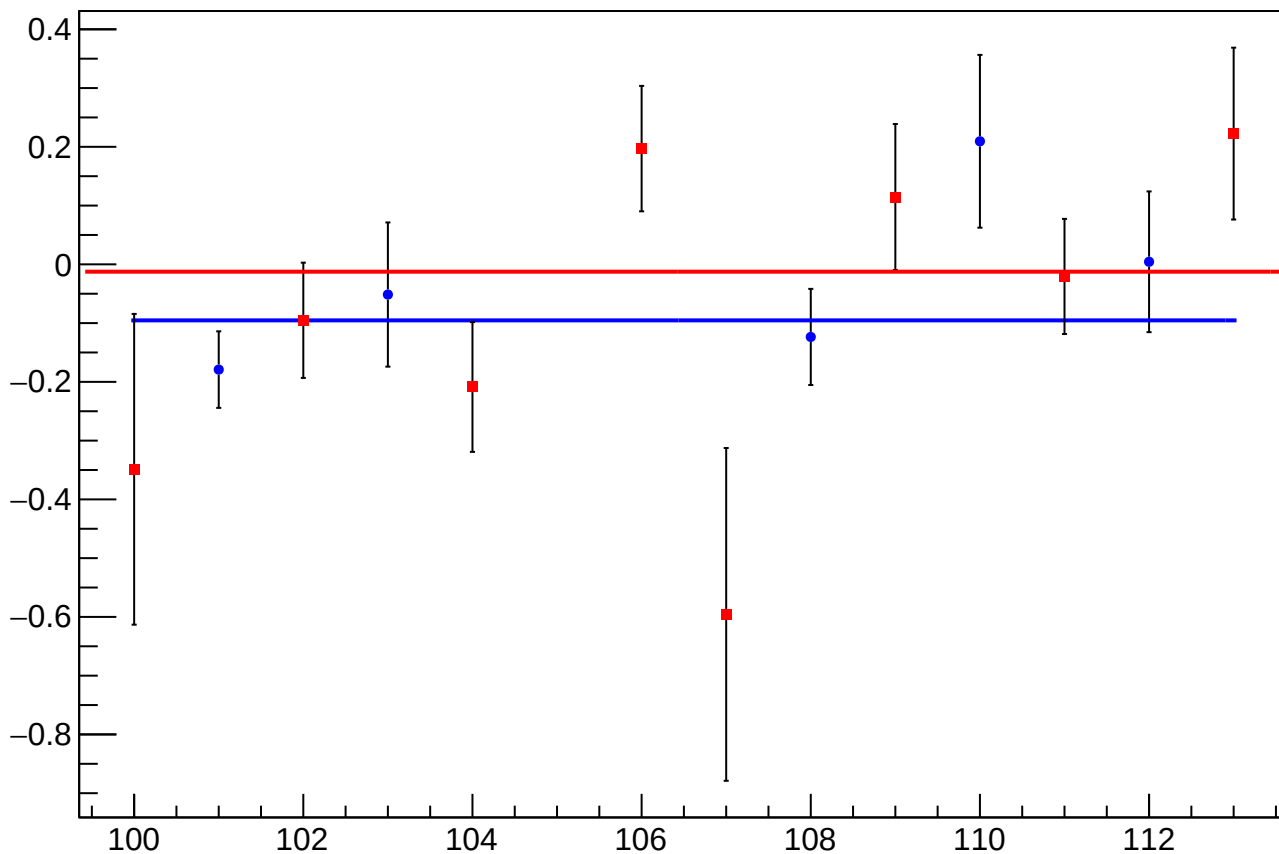
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 48.162+/-0.016  $\chi^2/\text{NDF}$ : 854495.7/12

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

asym\_usl\_eigen\_dit\_vs\_overload\_cor\_diff\_mean vs Slug



Right In: -0.095+/-0.042  $\chi^2/\text{NDF}$ : 6.9/4

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

Right Out: -0.013+/-0.044  $\chi^2/\text{NDF}$ : 17.2/7

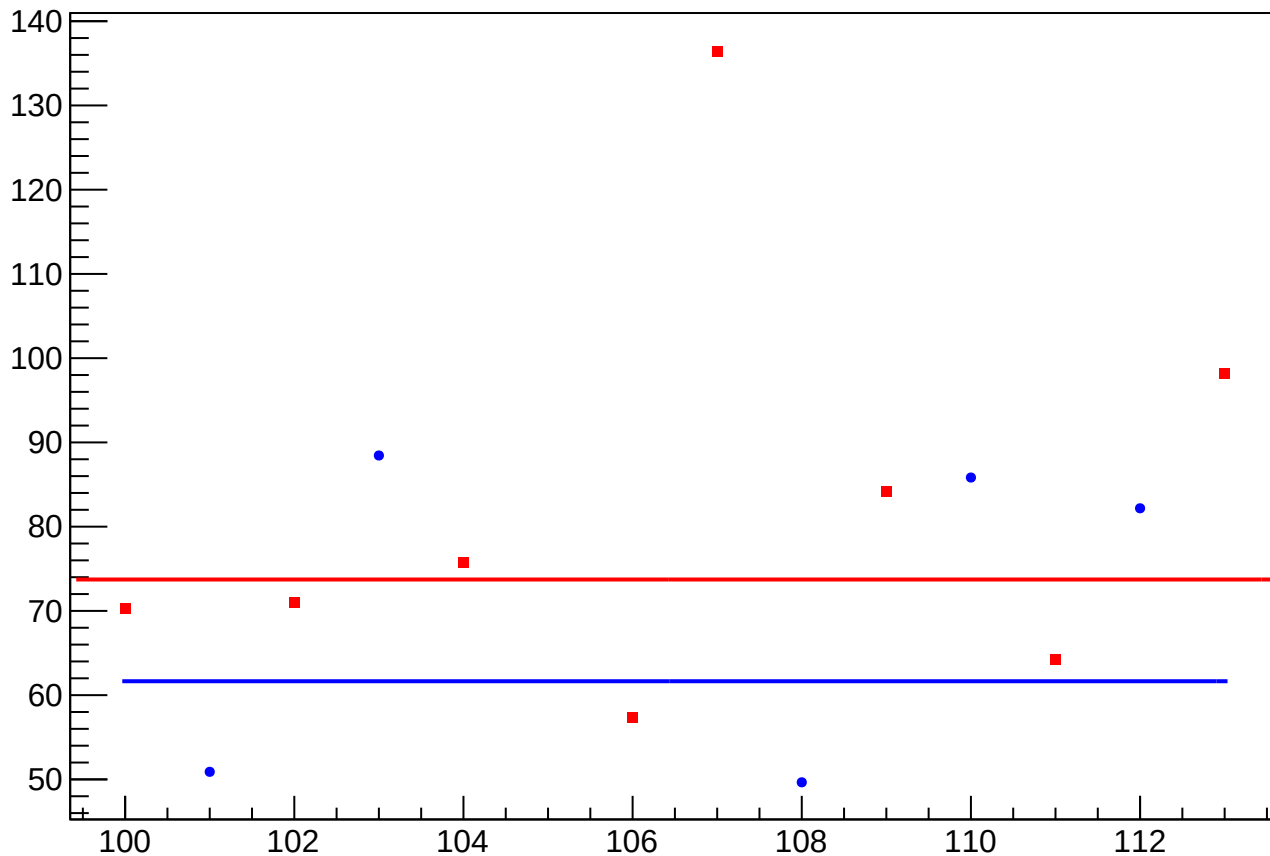
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.056+/-0.030  $\chi^2/\text{NDF}$ : 26.0/12

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

asym\_usl\_eigen\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In: 61.652 $\pm$ 0.030  $\chi^2$ /NDF: 305795.6/4

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

Right Out: 73.728 $\pm$ 0.031  $\chi^2$ /NDF: 236601.6/7

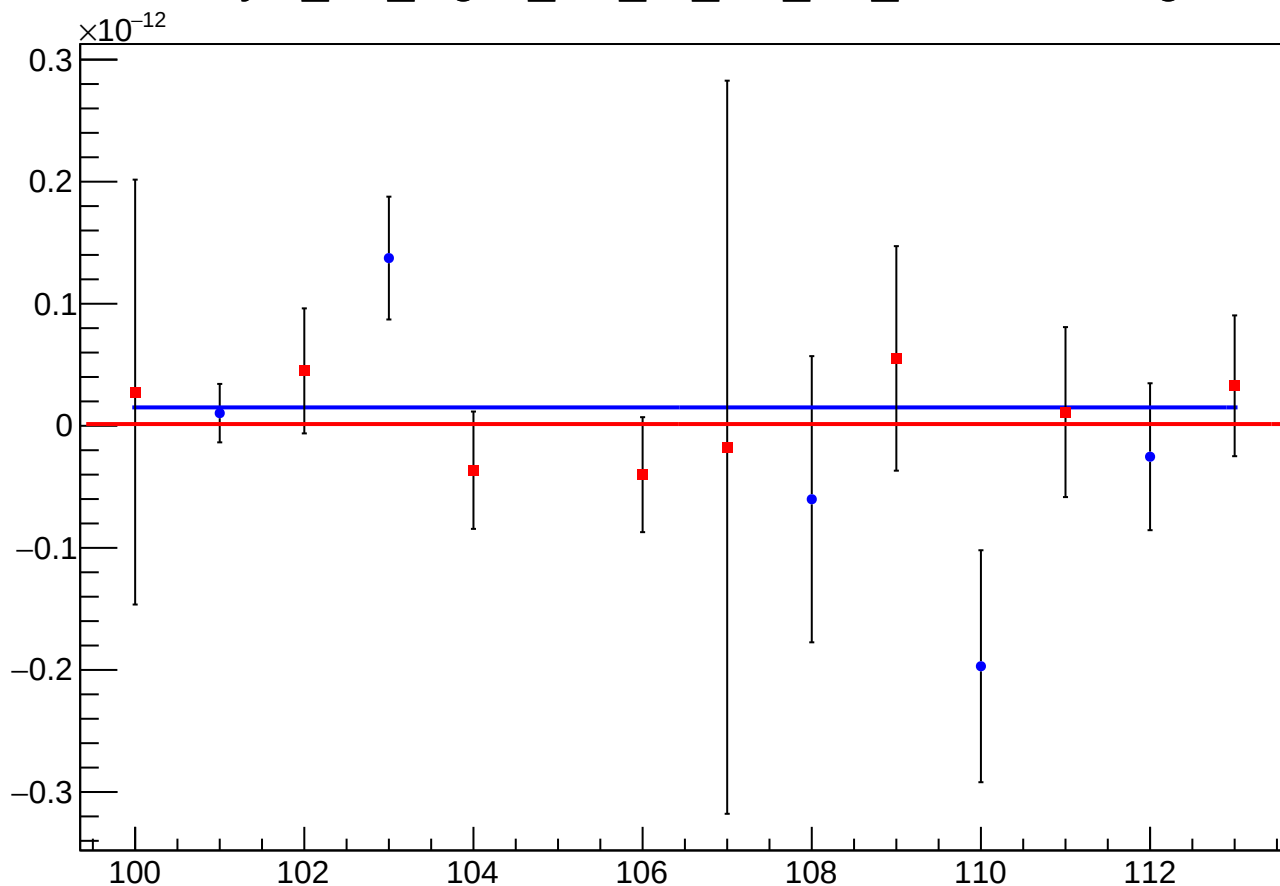
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 67.403 $\pm$ 0.021  $\chi^2$ /NDF: 621248.0/12

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

# asym\_usl\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.8/4

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.8/7

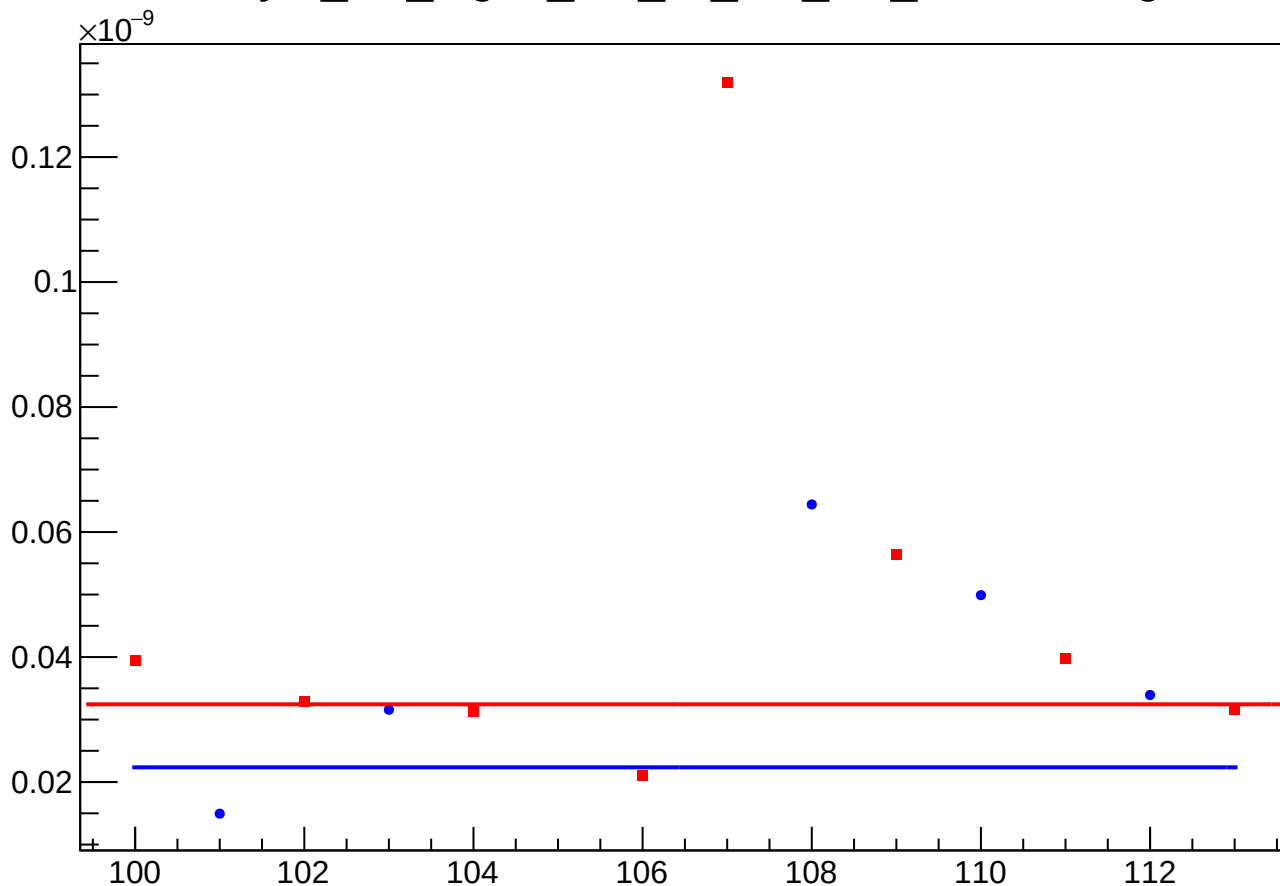
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.8/12

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

# asym\_usl\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 758643.4/4

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 497213.0/7

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

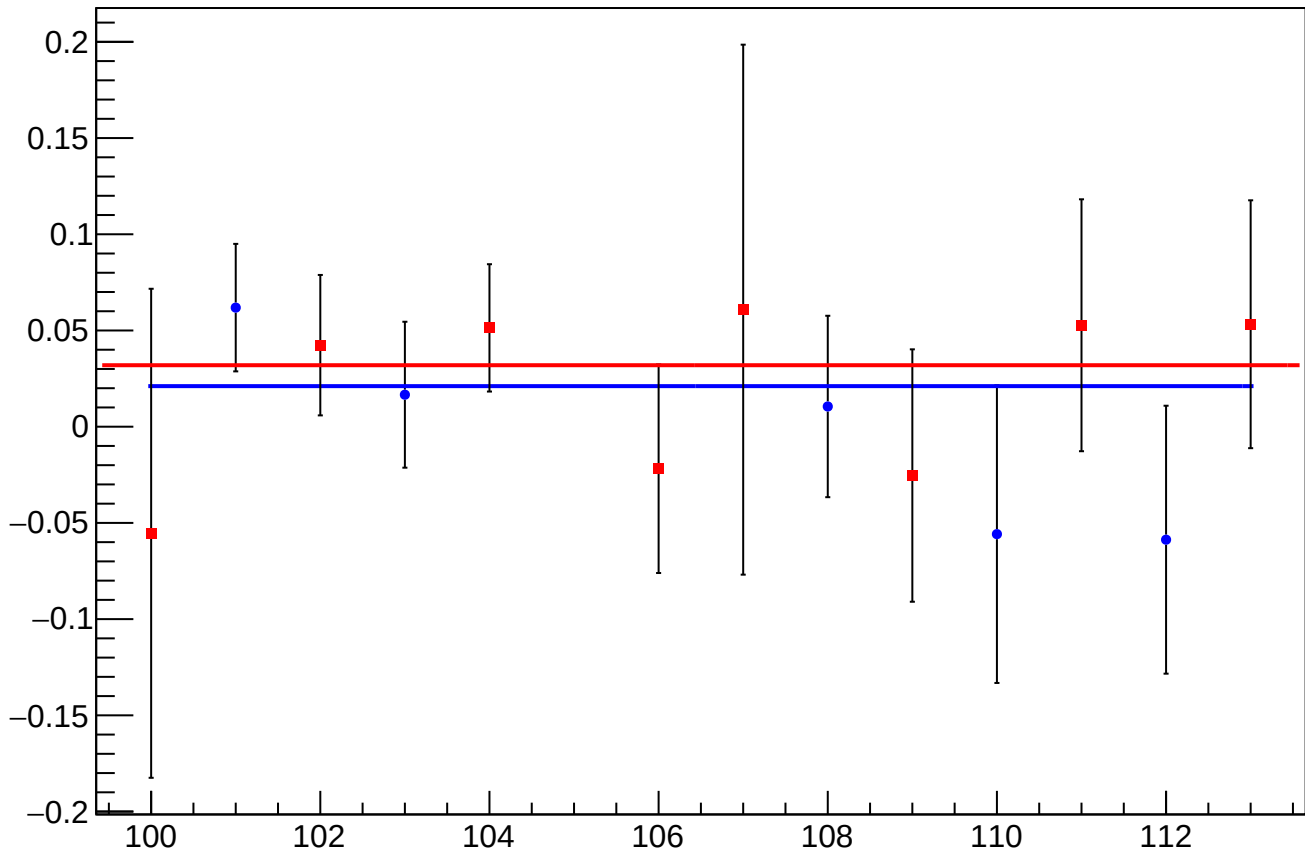
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1481408.8/12

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



# asym\_usl\_overload\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.021 $\pm$ 0.020  $\chi^2$ /NDF: 3.9/4

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

Right Out: 0.032 $\pm$ 0.019  $\chi^2$ /NDF: 2.9/7

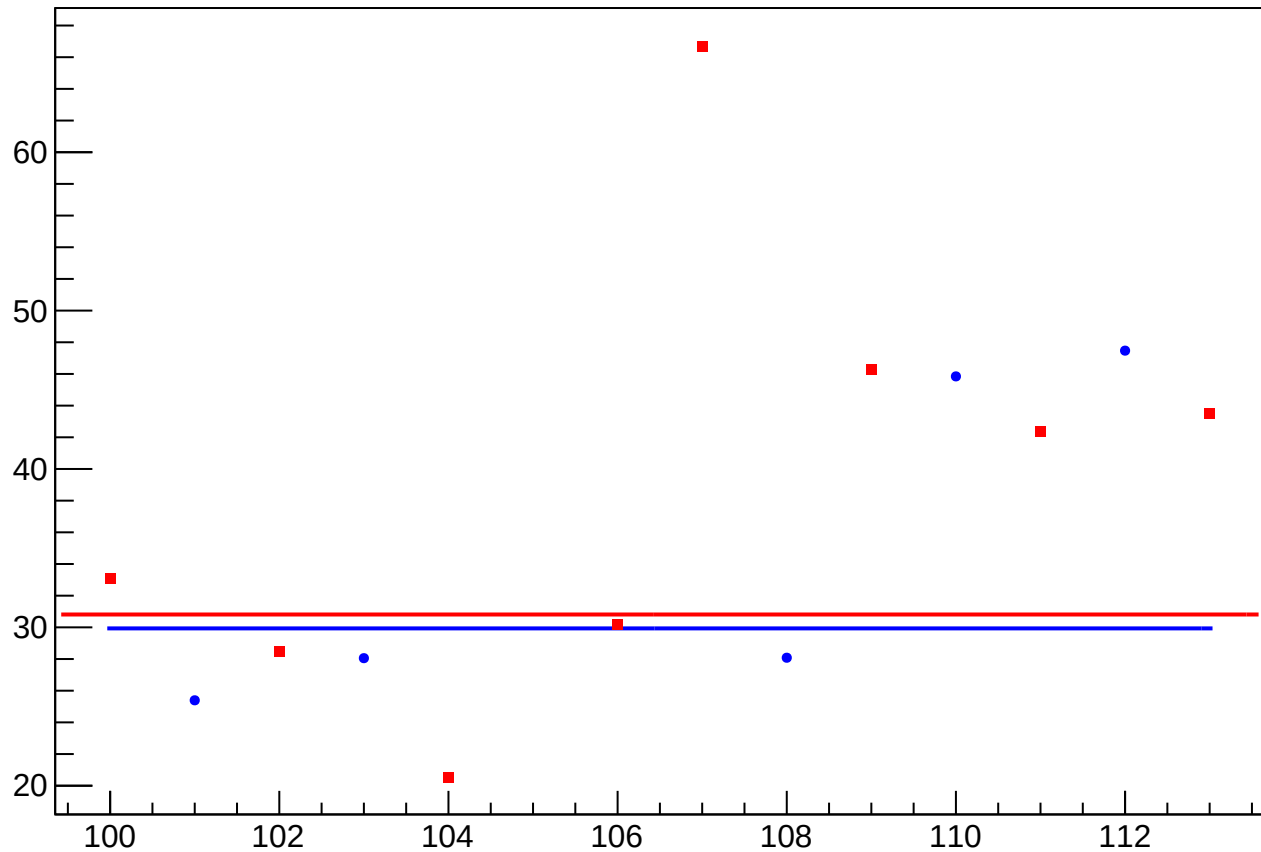
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.027 $\pm$ 0.014  $\chi^2$ /NDF: 6.9/12

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

# asym\_usl\_overload\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 29.934+/-0.014  $\chi^2/\text{NDF}$ : 257092.3/4

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

Right Out: 30.811+/-0.013  $\chi^2/\text{NDF}$ : 589692.1/7

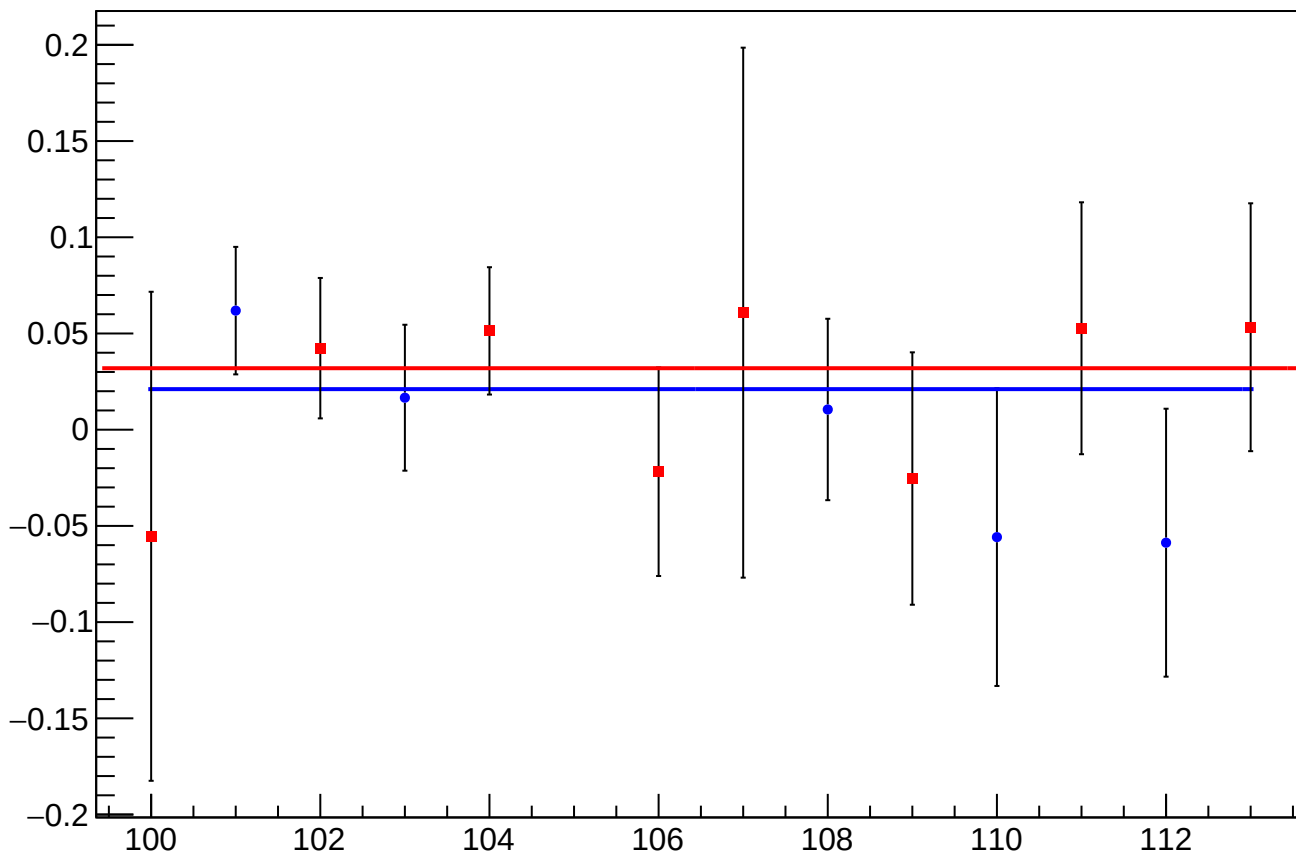
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 30.406+/-0.010  $\chi^2/\text{NDF}$ : 848797.7/12

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

asym\_usl\_overload\_cor\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.021 $\pm$ 0.020  $\chi^2$ /NDF: 3.9/4

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

Right Out: 0.032 $\pm$ 0.019  $\chi^2$ /NDF: 2.9/7

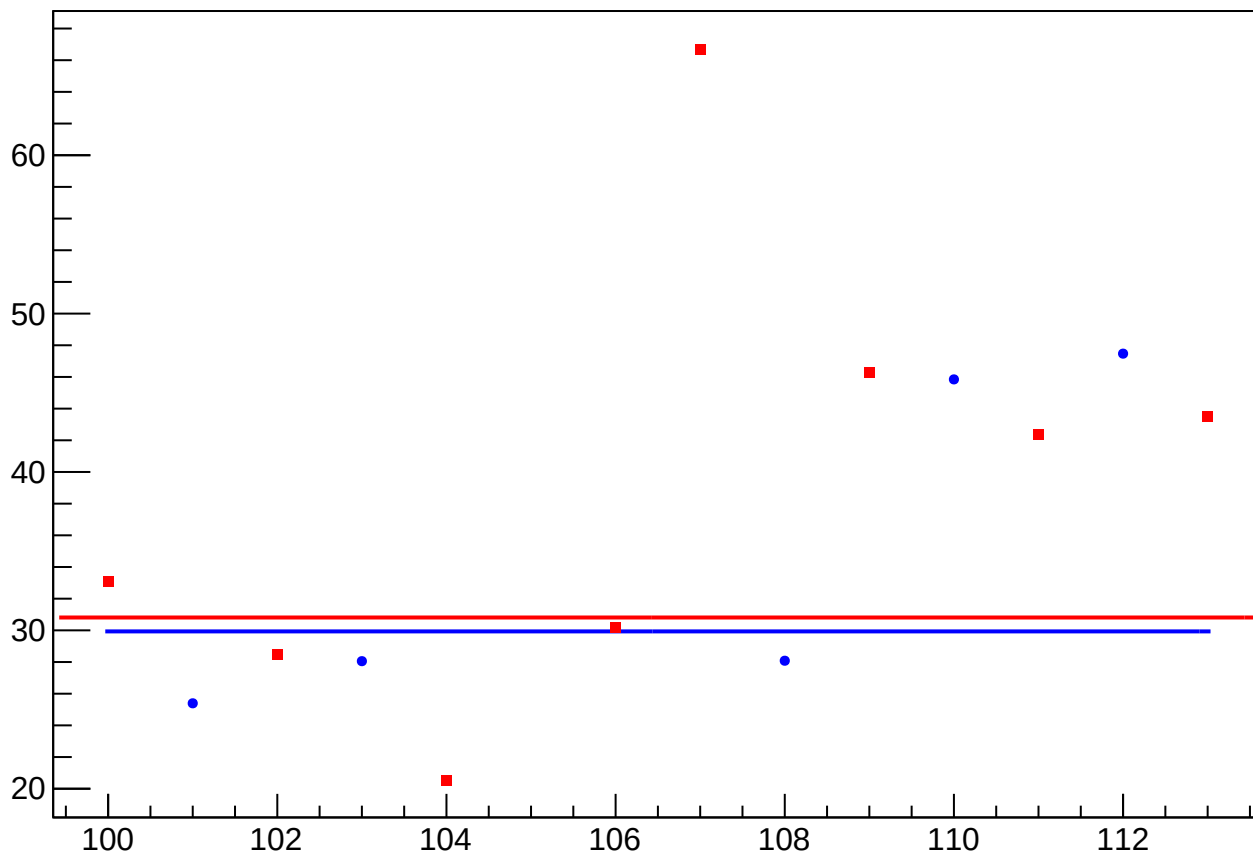
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.027 $\pm$ 0.014  $\chi^2$ /NDF: 6.9/12

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

asym\_usl\_overload\_cor\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 29.934+/-0.014  $\chi^2/\text{NDF}$ : 257092.3/4

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

Right Out: 30.811+/-0.013  $\chi^2/\text{NDF}$ : 589692.1/7

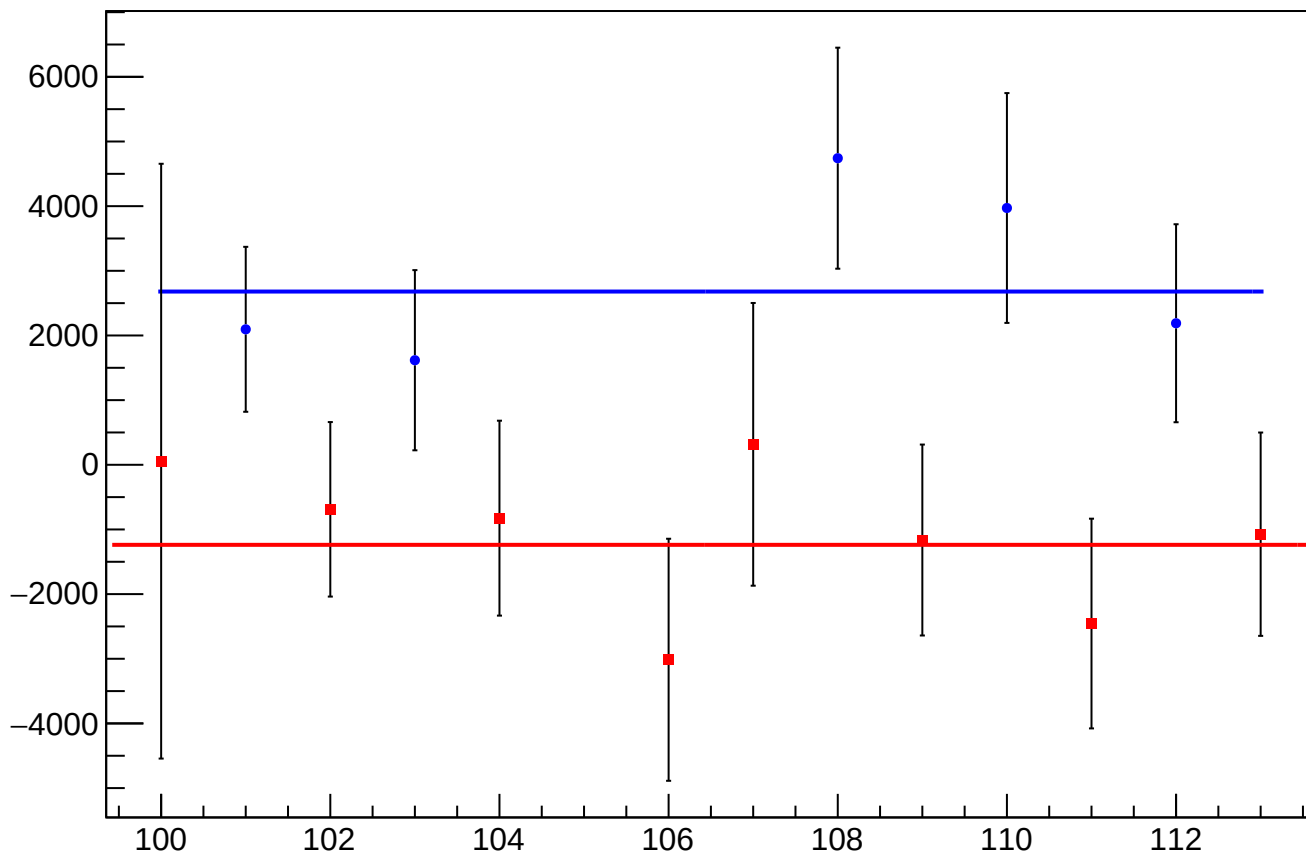
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 30.406+/-0.010  $\chi^2/\text{NDF}$ : 848797.7/12

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

# reg\_asym\_usr\_mean vs Slug



Right In: 2679.414 $\pm$ 671.908  $\chi^2$ /NDF: 2.9/4

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

Right Out: -1237.942 $\pm$ 600.367  $\chi^2$ /NDF: 2.3/7

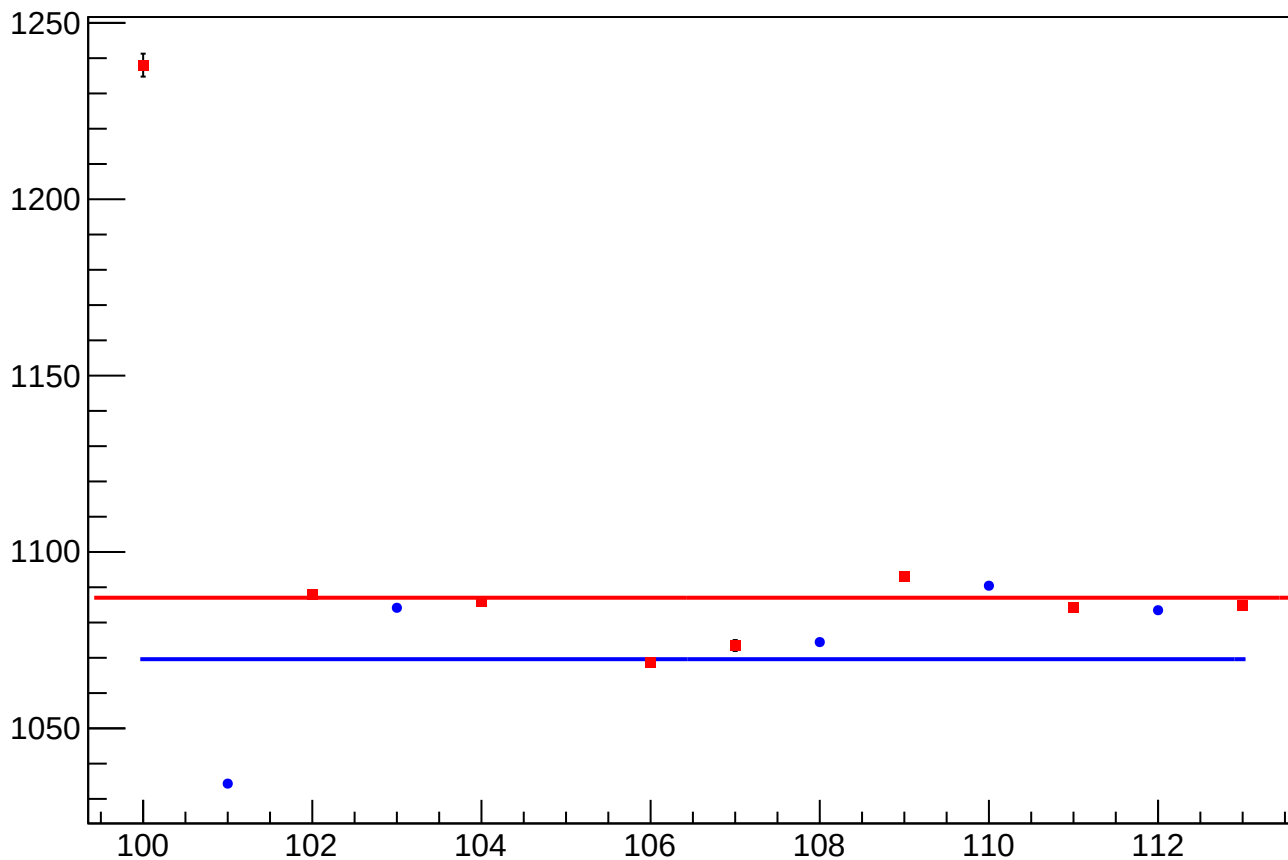
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 501.153 $\pm$ 447.688  $\chi^2$ /NDF: 24.1/12

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

# reg\_asym\_usr\_rms vs Slug



Right In: 1069.609 $\pm$ 0.475  $\chi^2$ /NDF: 2203.7/4

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

Right Out: 1087.033 $\pm$ 0.425  $\chi^2$ /NDF: 2471.6/7

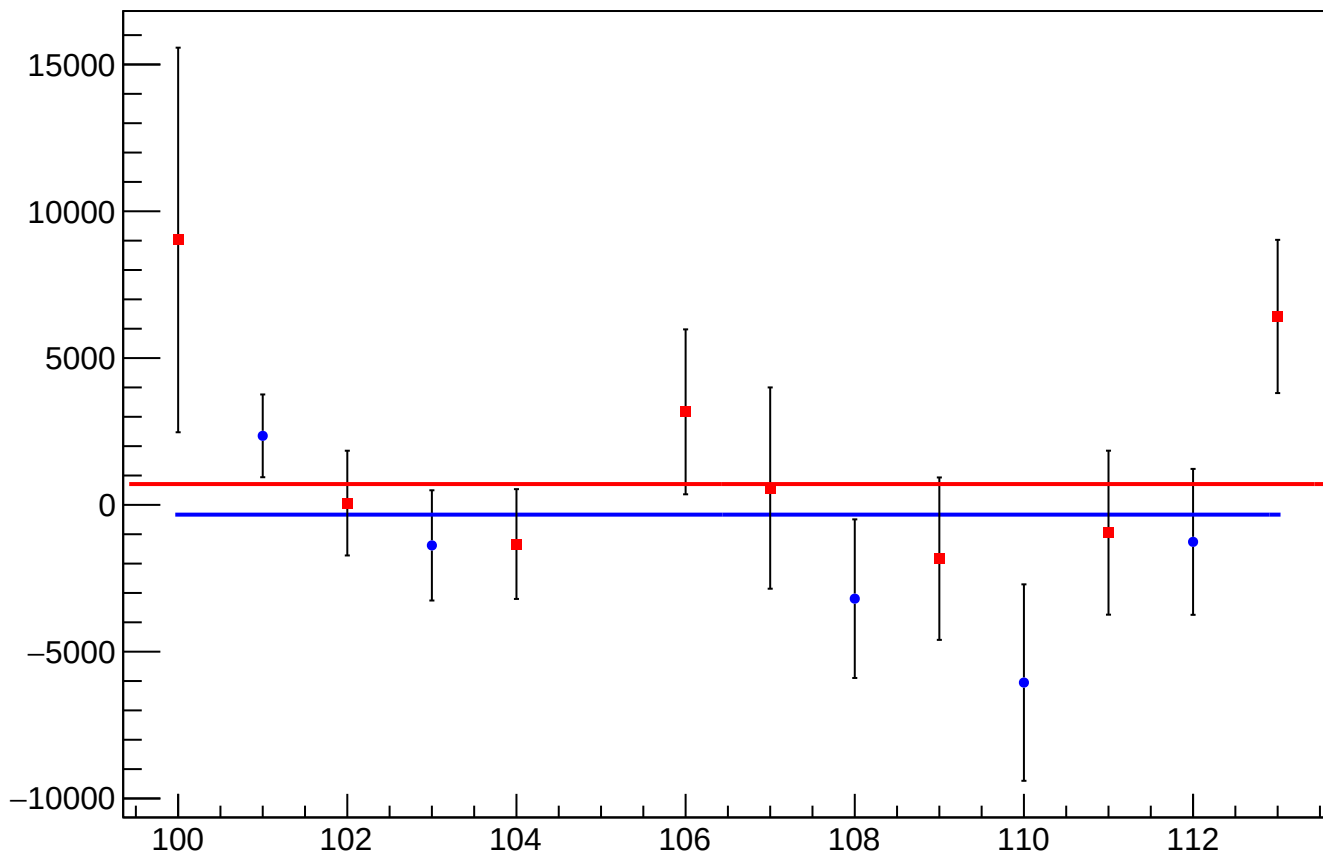
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1079.298 $\pm$ 0.317  $\chi^2$ /NDF: 5423.3/12

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

# asym\_usr\_reg\_correction\_mean vs Slug



Right In: -332.530+/-922.410  $\chi^2/\text{NDF}$ : 8.1/4

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

Right Out: 708.997+/-897.623  $\chi^2/\text{NDF}$ : 9.7/7

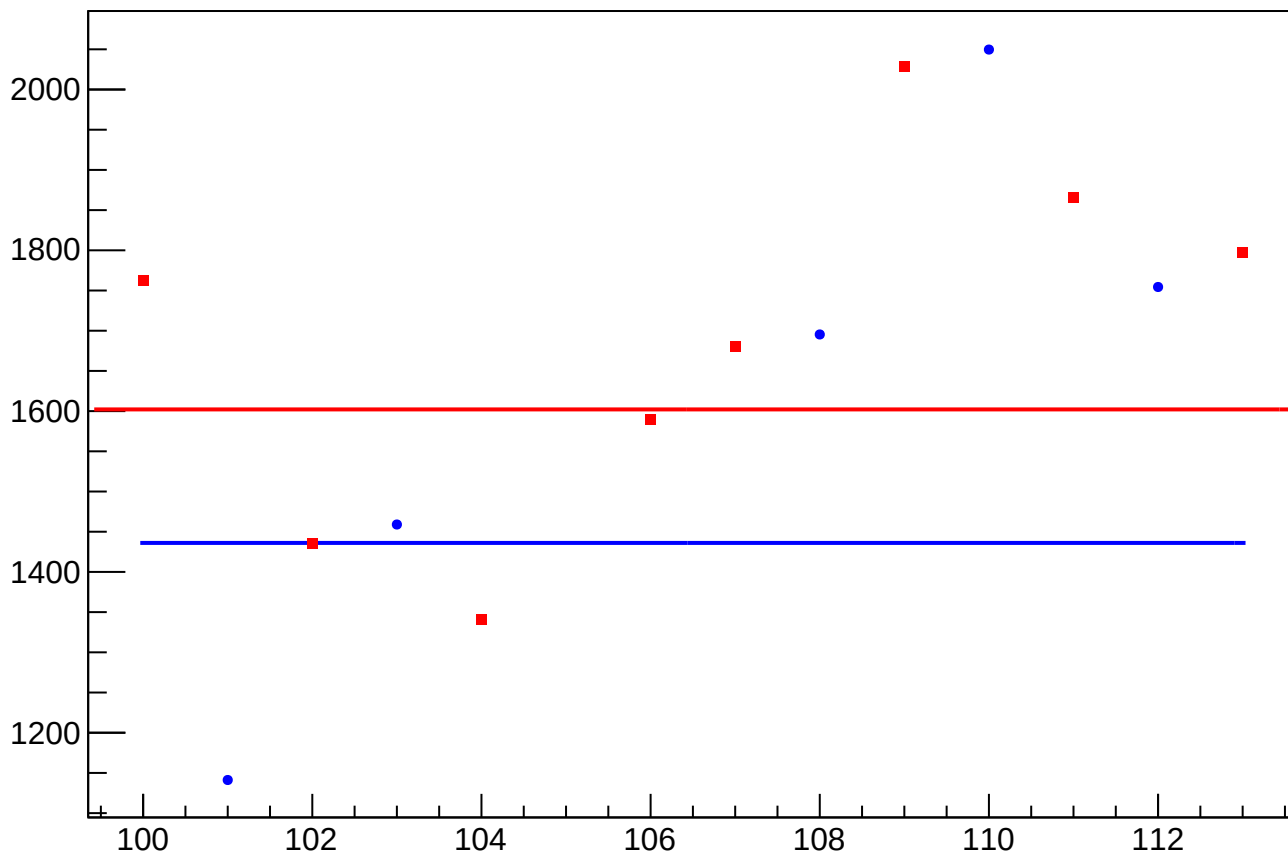
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 202.415+/-643.300  $\chi^2/\text{NDF}$ : 18.5/12

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

# asym\_usr\_reg\_correction\_rms vs Slug



Right In: 1436.076 $\pm$ 0.652  $\chi^2$ /NDF: 206320.0/4

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

Right Out: 1602.119 $\pm$ 0.635  $\chi^2$ /NDF: 135021.1/7

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

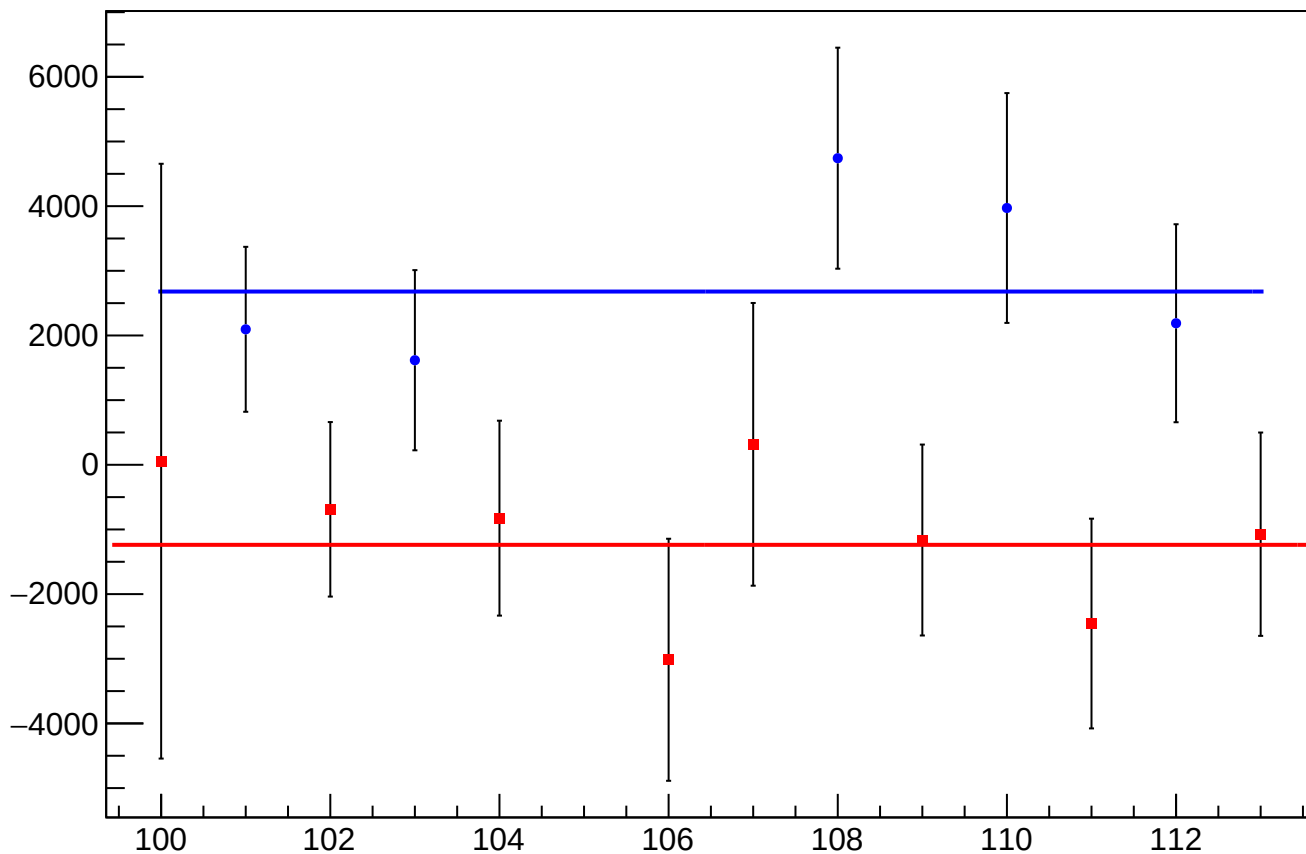
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1521.358 $\pm$ 0.455  $\chi^2$ /NDF: 374626.9/12

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



# cor\_asym\_usr\_mean vs Slug



Right In: 2679.414 $\pm$ 671.908  $\chi^2$ /NDF: 2.9/4

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

Right Out: -1237.942 $\pm$ 600.367  $\chi^2$ /NDF: 2.3/7

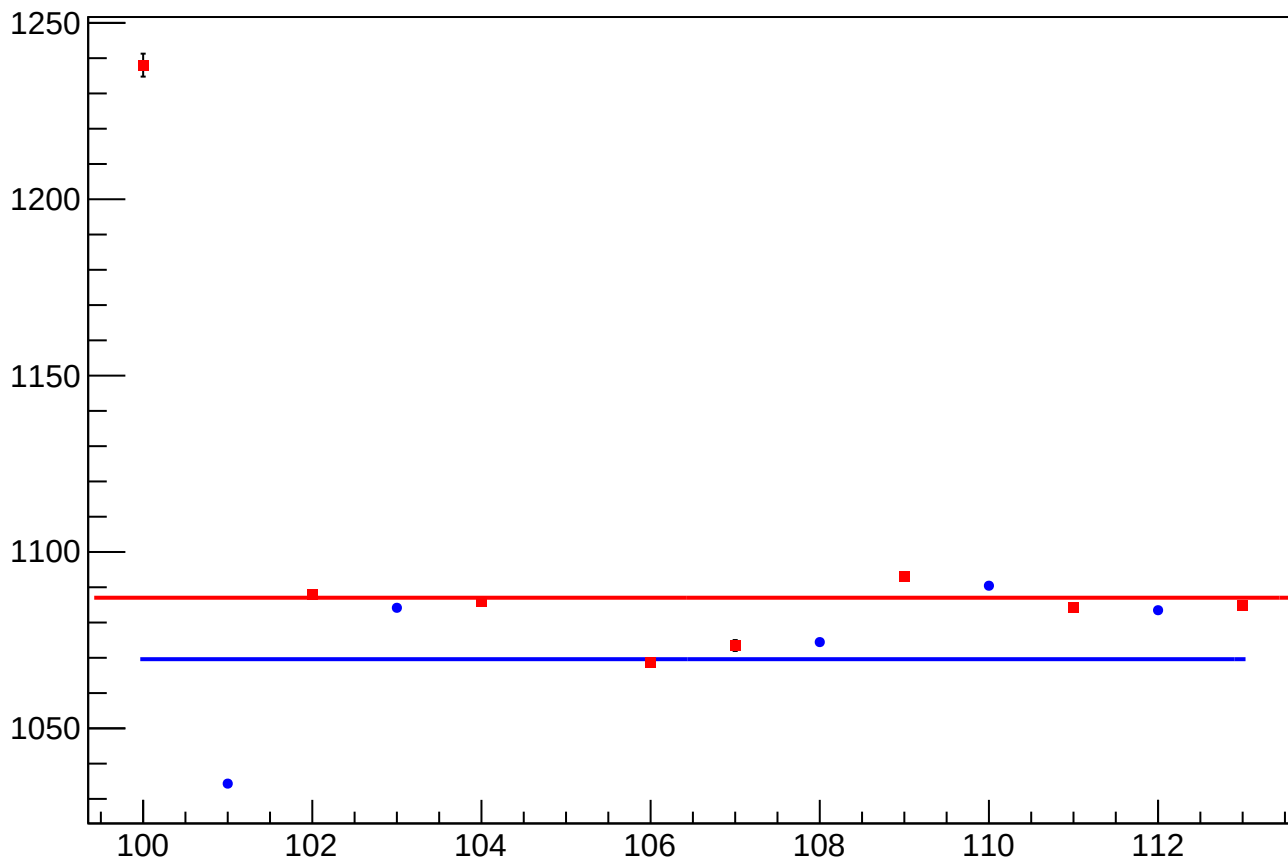
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 501.153 $\pm$ 447.688  $\chi^2$ /NDF: 24.1/12

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

# cor\_asym\_usr\_rms vs Slug



Right In: 1069.609 $\pm$ 0.475  $\chi^2$ /NDF: 2203.7/4

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

Right Out: 1087.033 $\pm$ 0.425  $\chi^2$ /NDF: 2471.6/7

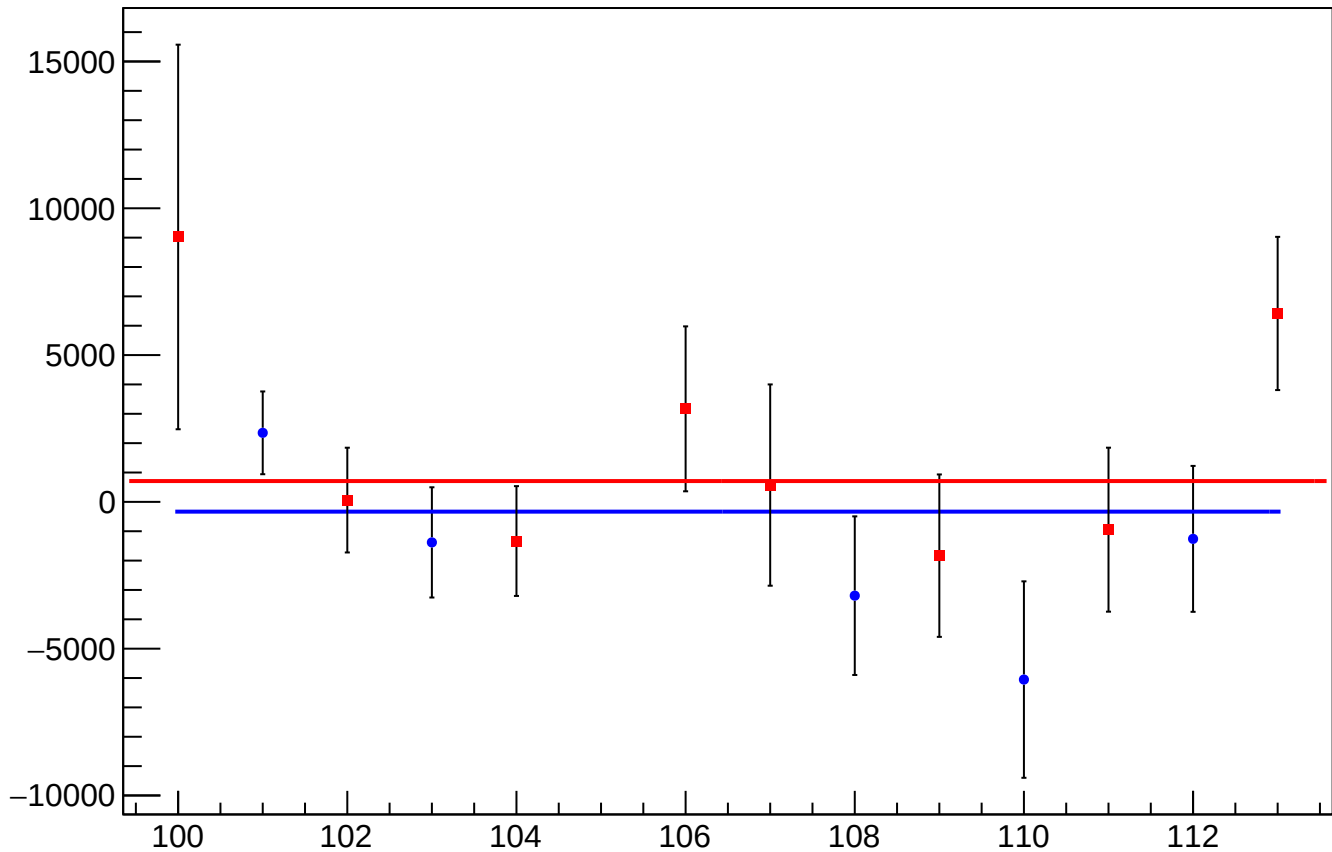
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1079.298 $\pm$ 0.317  $\chi^2$ /NDF: 5423.3/12

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

# asym\_usr\_cor\_correction\_mean vs Slug



Right In: -332.530 $\pm$ 922.410  $\chi^2$ /NDF: 8.1/4

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

Right Out: 708.997 $\pm$ 897.623  $\chi^2$ /NDF: 9.7/7

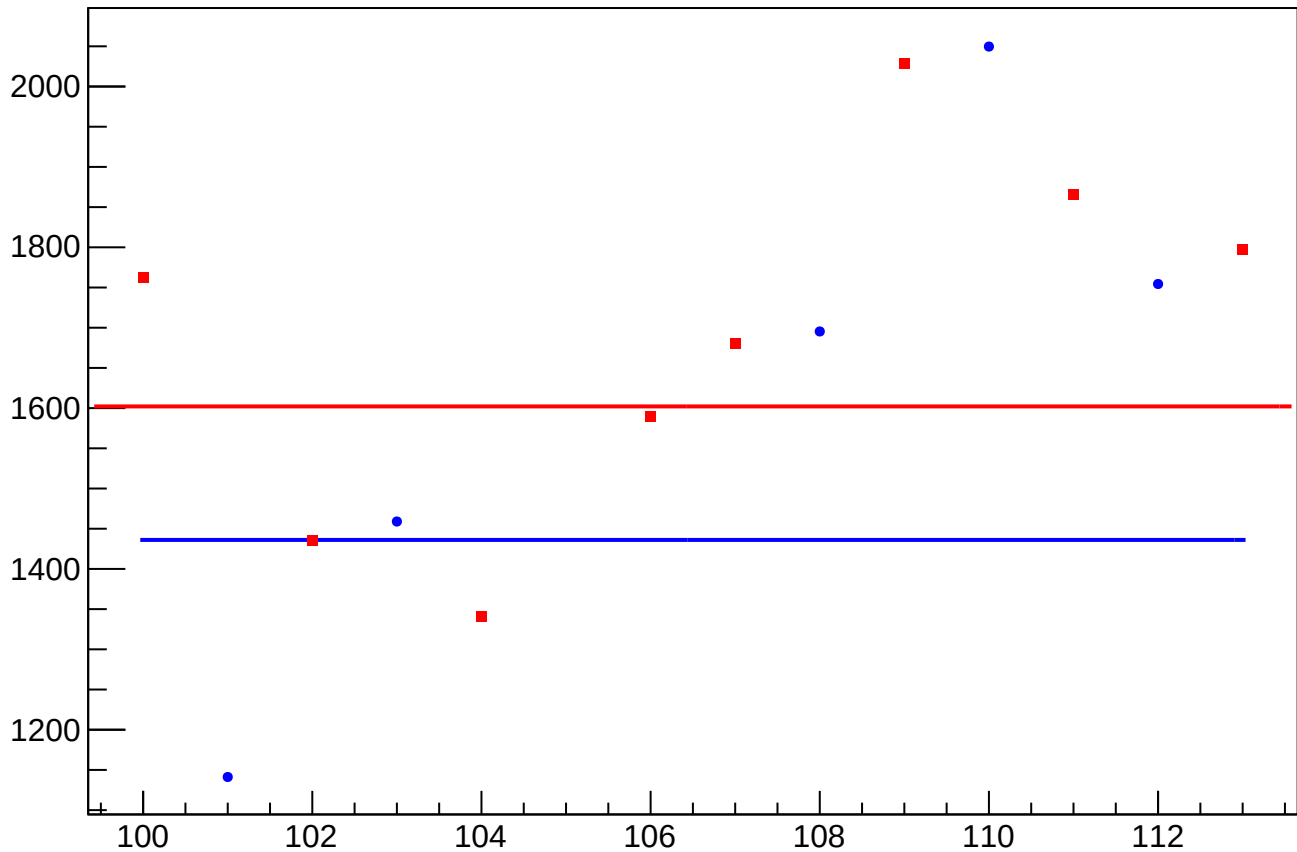
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 202.415 $\pm$ 643.300  $\chi^2$ /NDF: 18.5/12

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

# asym\_usr\_cor\_correction\_rms vs Slug



Right In: 1436.076+/-0.652  $\chi^2/\text{NDF}$ : 206320.0/4

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

Right Out: 1602.119+/-0.635  $\chi^2/\text{NDF}$ : 135021.1/7

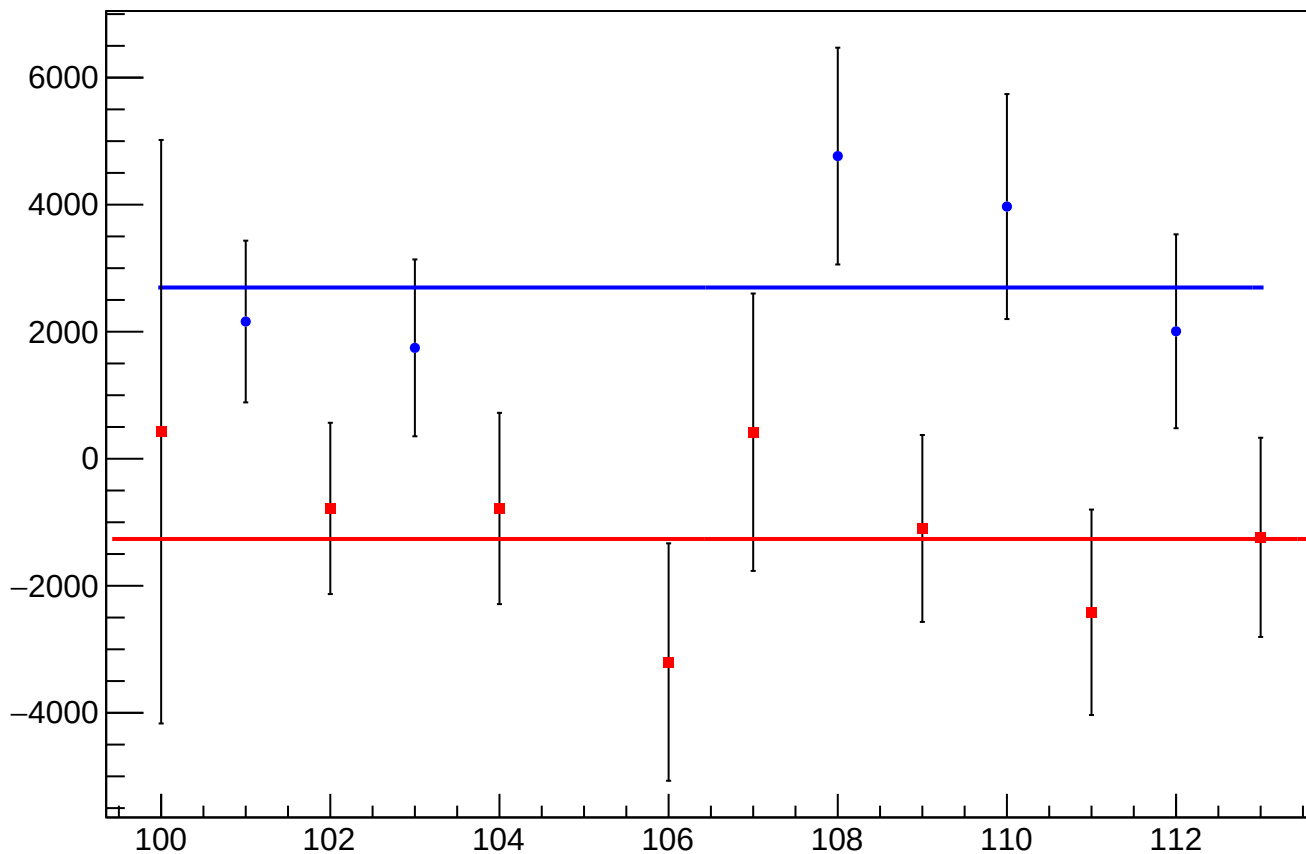
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1521.358+/-0.455  $\chi^2/\text{NDF}$ : 374626.9/12

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

# overload\_cor\_asym\_usr\_mean vs Slug



Right In: 2695.795 $\pm$ 670.464  $\chi^2$ /NDF: 2.8/4

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

Right Out: -1263.035 $\pm$ 599.156  $\chi^2$ /NDF: 2.6/7

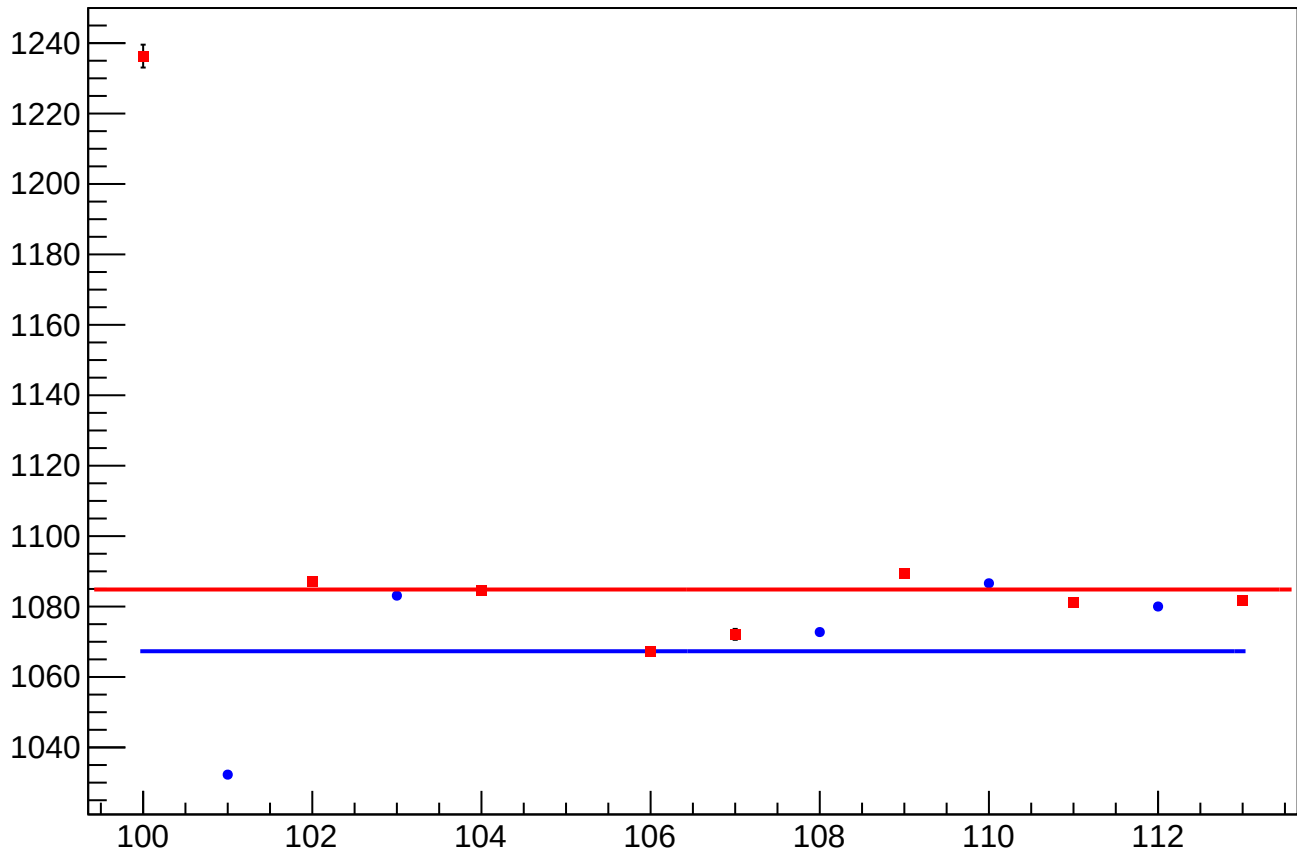
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 494.733 $\pm$ 446.758  $\chi^2$ /NDF: 24.8/12

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

# overload\_cor\_asym\_usr\_rms vs Slug



Right In: 1067.313+/-0.474  $\chi^2/\text{NDF}$ : 2168.9/4

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

Right Out: 1084.842+/-0.424  $\chi^2/\text{NDF}$ : 2464.0/7

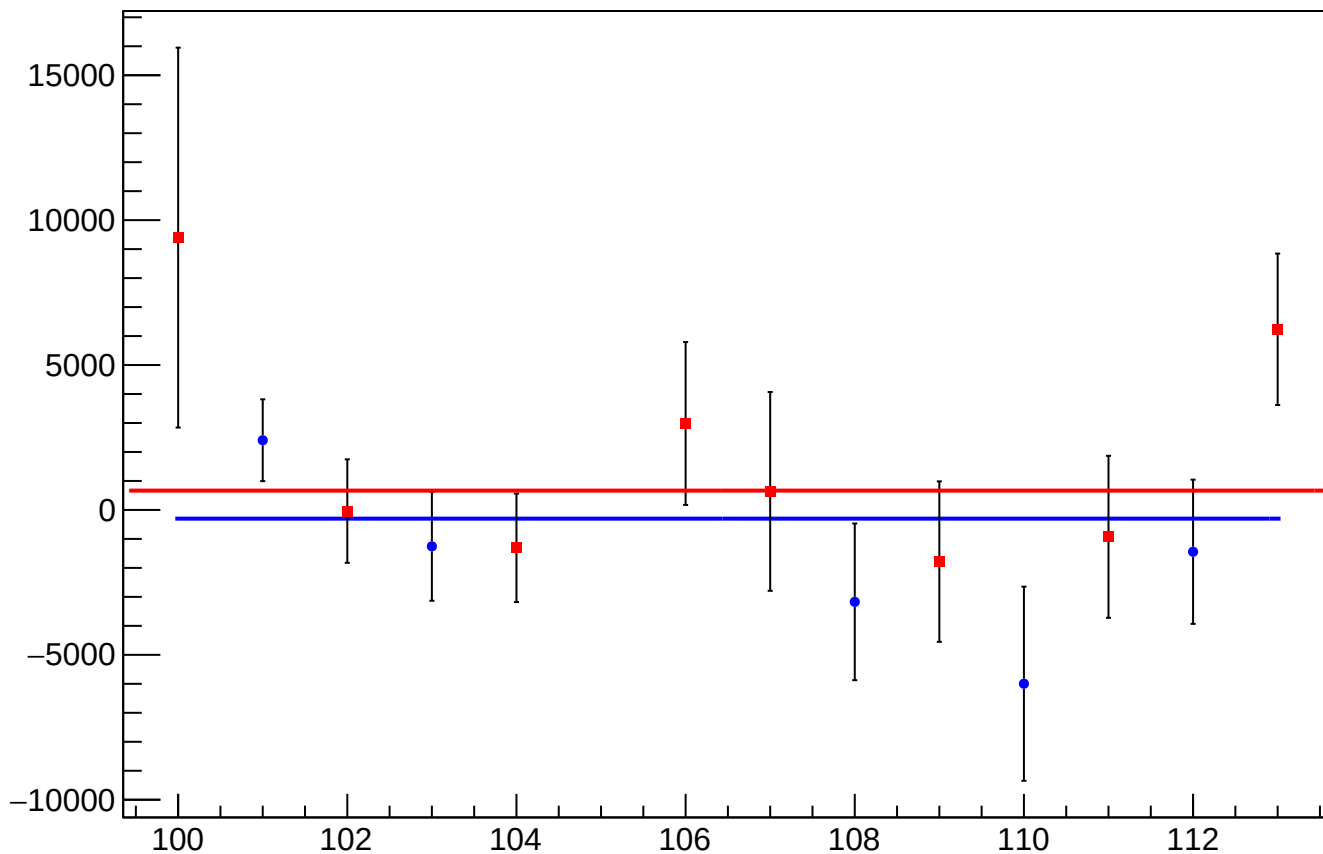
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1077.059+/-0.316  $\chi^2/\text{NDF}$ : 5393.0/12

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

# asym\_usr\_overload\_cor\_correction\_mean vs Slug



Right In: -299.884+/-923.479  $\chi^2/\text{NDF}$ : 8.2/4

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

Right Out: 667.540+/-898.303  $\chi^2/\text{NDF}$ : 9.4/7

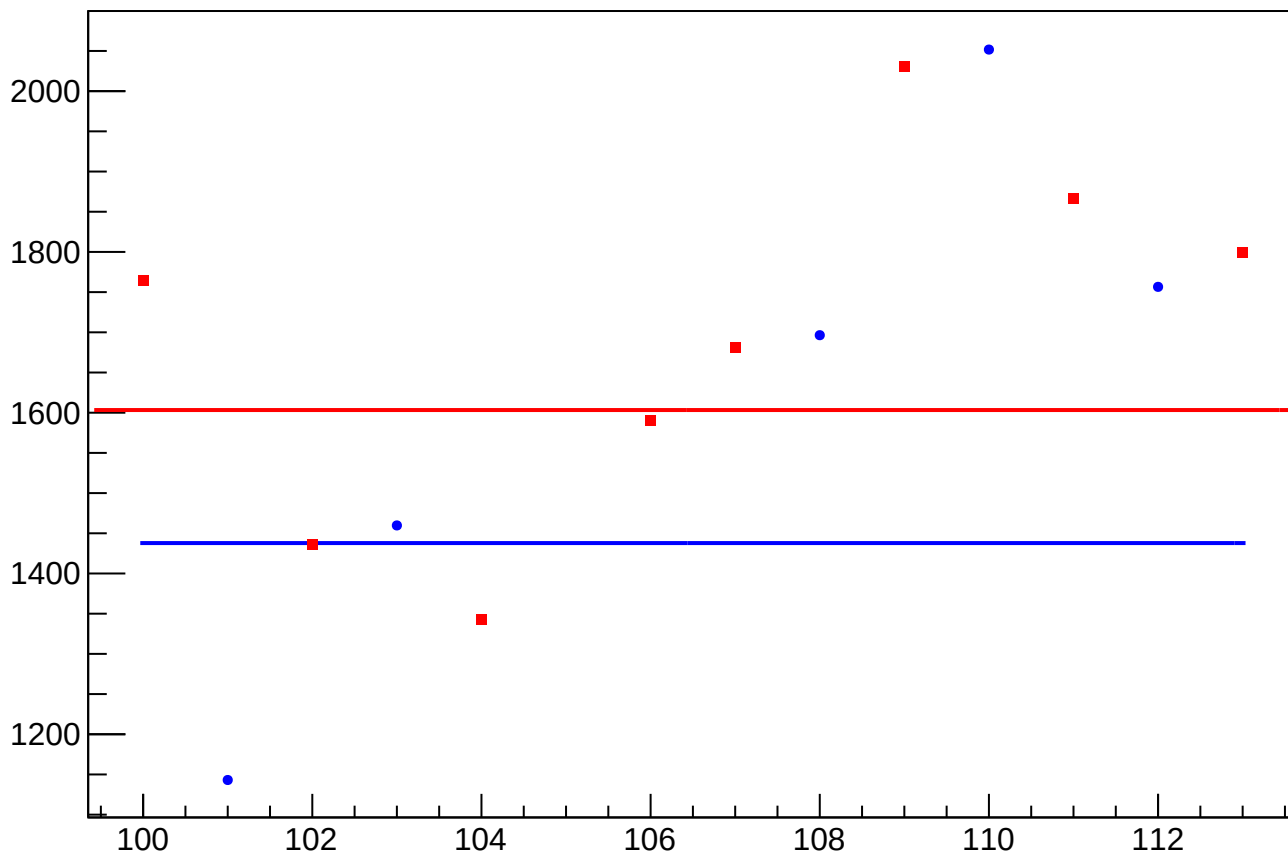
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 197.195+/-643.913  $\chi^2/\text{NDF}$ : 18.1/12

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

# asym\_usr\_overload\_cor\_correction\_rms vs Slug



Right In: 1437.836+/-0.653  $\chi^2/\text{NDF}$ : 205733.9/4

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

Right Out: 1603.317+/-0.635  $\chi^2/\text{NDF}$ : 135223.6/7

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

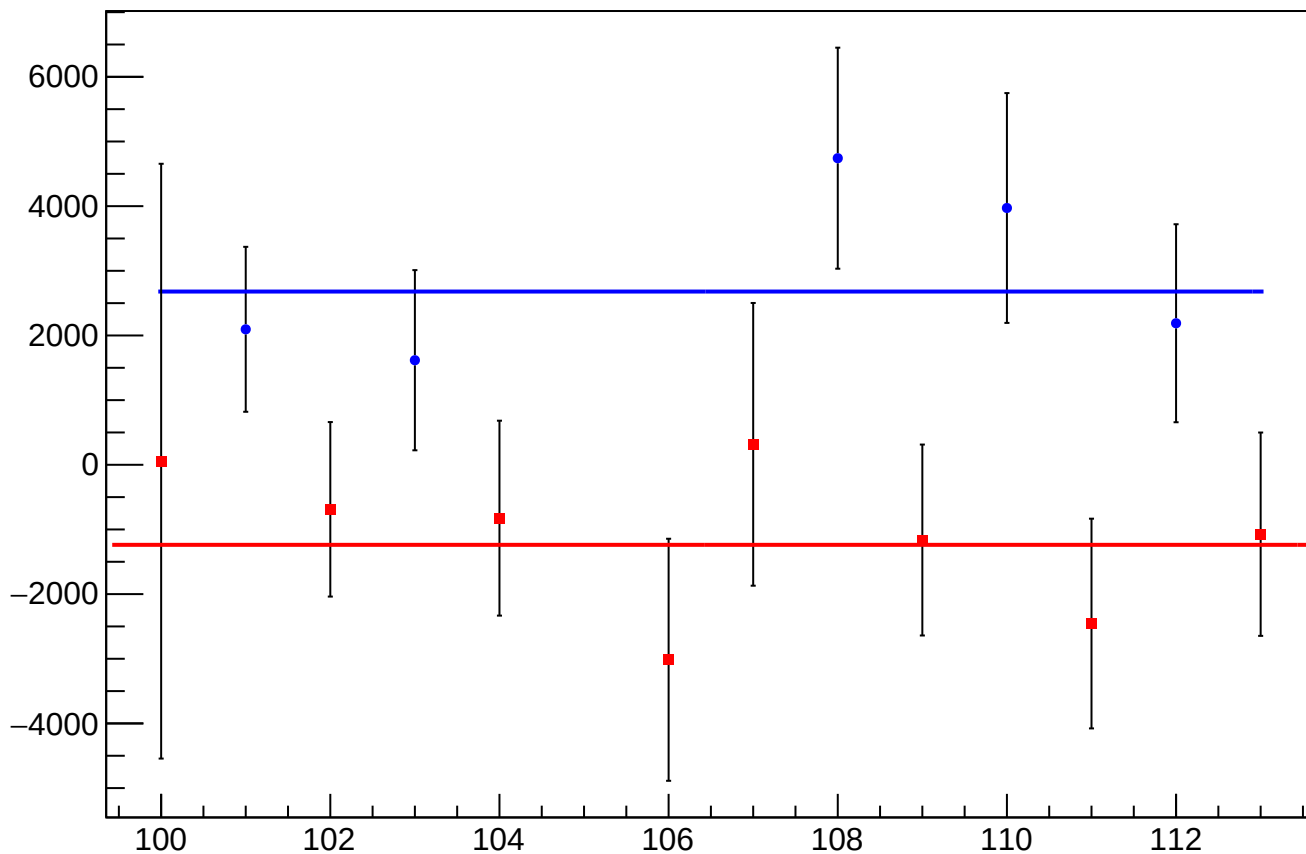
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1522.863+/-0.455  $\chi^2/\text{NDF}$ : 373955.1/12

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



# eigen\_cor\_asym\_usr\_mean vs Slug



Right In: 2679.414 $\pm$ 671.908  $\chi^2$ /NDF: 2.9/4

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

Right Out: -1237.942 $\pm$ 600.367  $\chi^2$ /NDF: 2.3/7

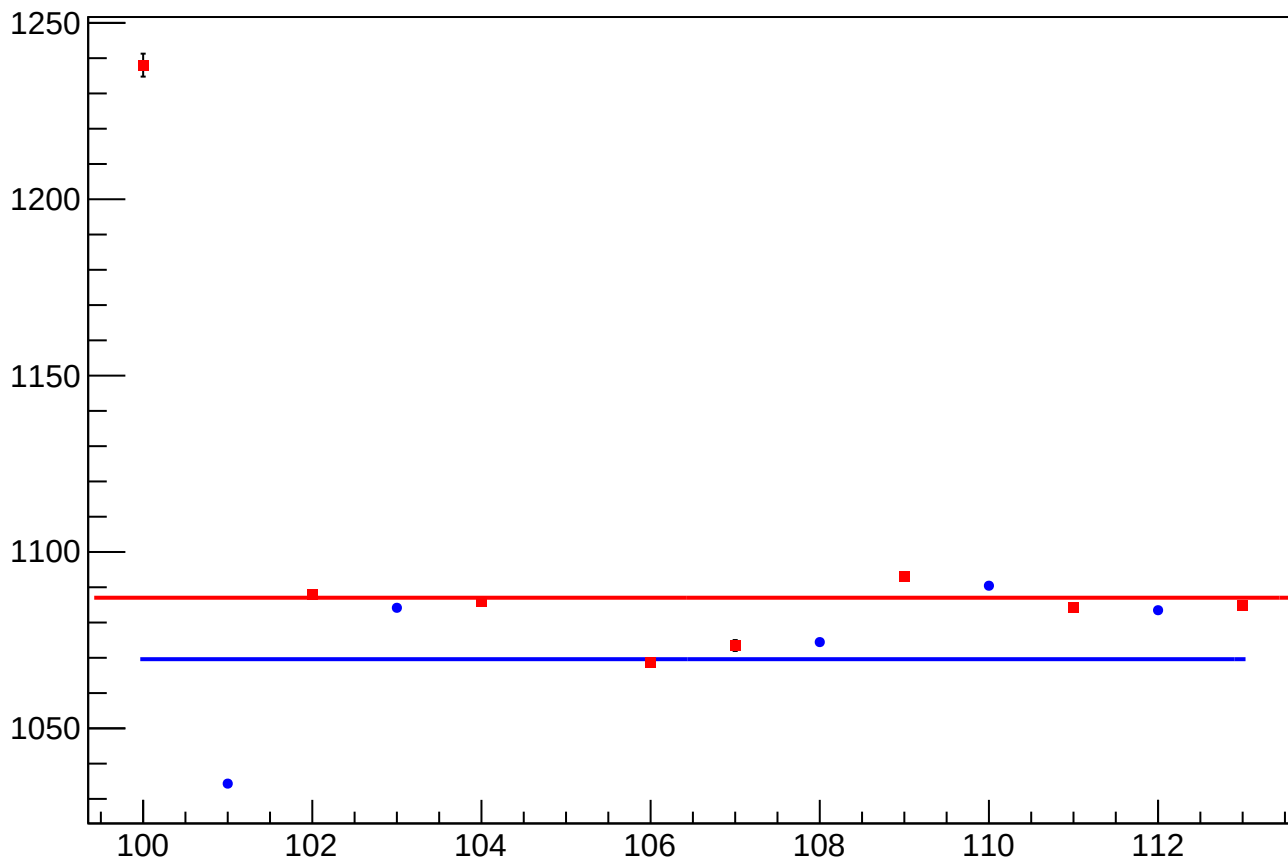
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 501.153 $\pm$ 447.688  $\chi^2$ /NDF: 24.1/12

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

# eigen\_cor\_asym\_usr\_rms vs Slug



Right In: 1069.609 $\pm$ 0.475  $\chi^2$ /NDF: 2203.7/4

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

Right Out: 1087.033 $\pm$ 0.425  $\chi^2$ /NDF: 2471.6/7

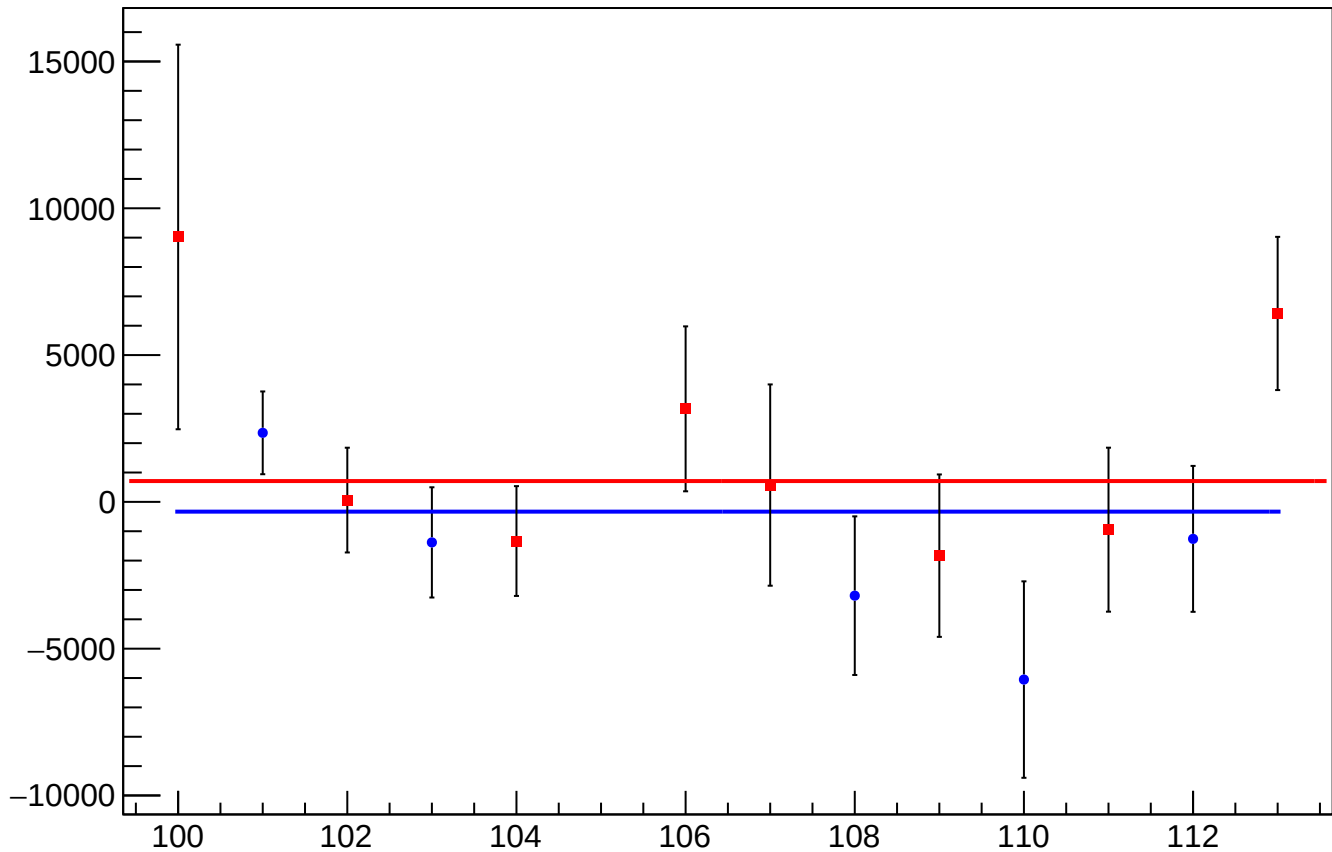
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1079.298 $\pm$ 0.317  $\chi^2$ /NDF: 5423.3/12

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

# asym\_usr\_eigen\_cor\_correction\_mean vs Slug



Right In: -332.530+/-922.410  $\chi^2/\text{NDF}$ : 8.1/4

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

Right Out: 708.997+/-897.623  $\chi^2/\text{NDF}$ : 9.7/7

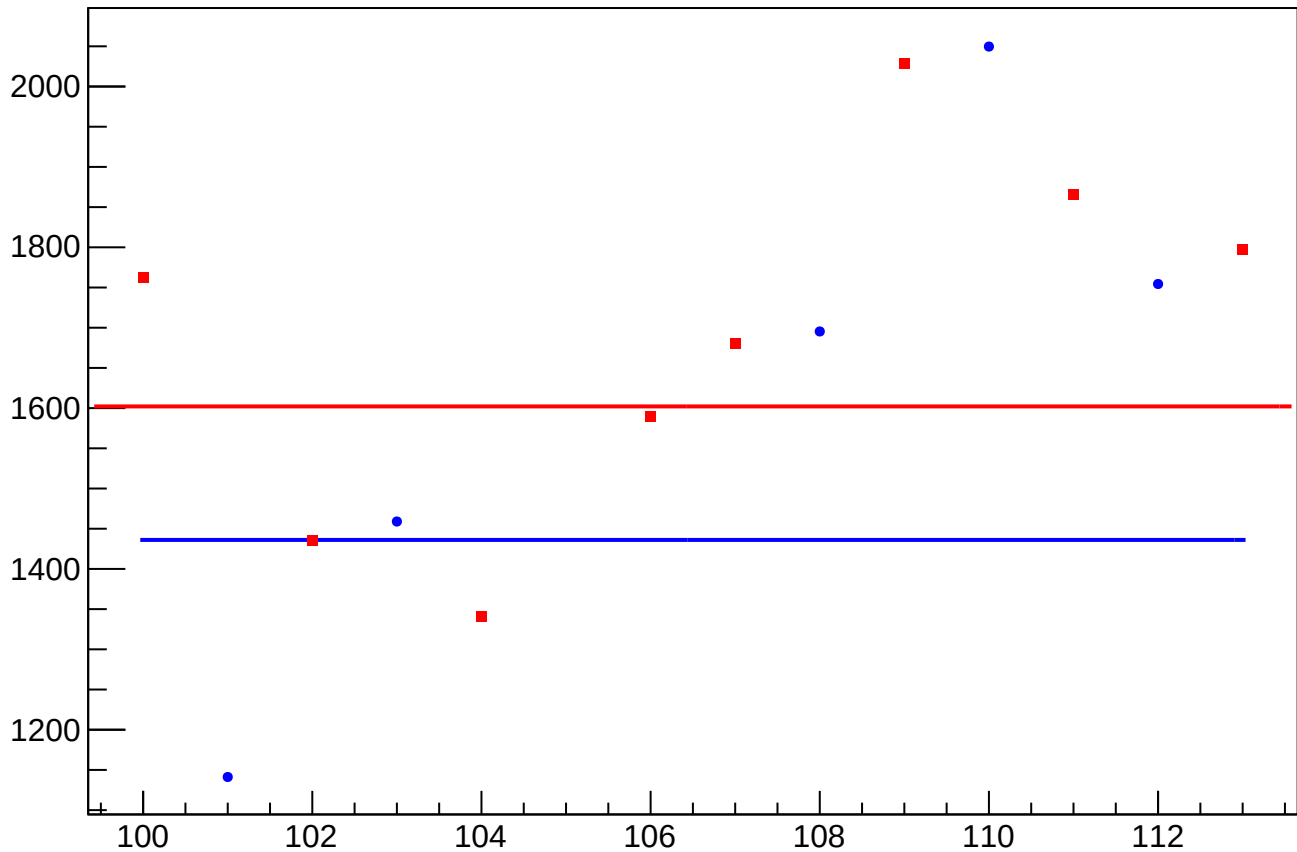
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 202.415+/-643.300  $\chi^2/\text{NDF}$ : 18.5/12

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

# asym\_usr\_eigen\_cor\_correction\_rms vs Slug



Right In: 1436.076+/-0.652  $\chi^2/\text{NDF}$ : 206320.0/4

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

Right Out: 1602.119+/-0.635  $\chi^2/\text{NDF}$ : 135021.1/7

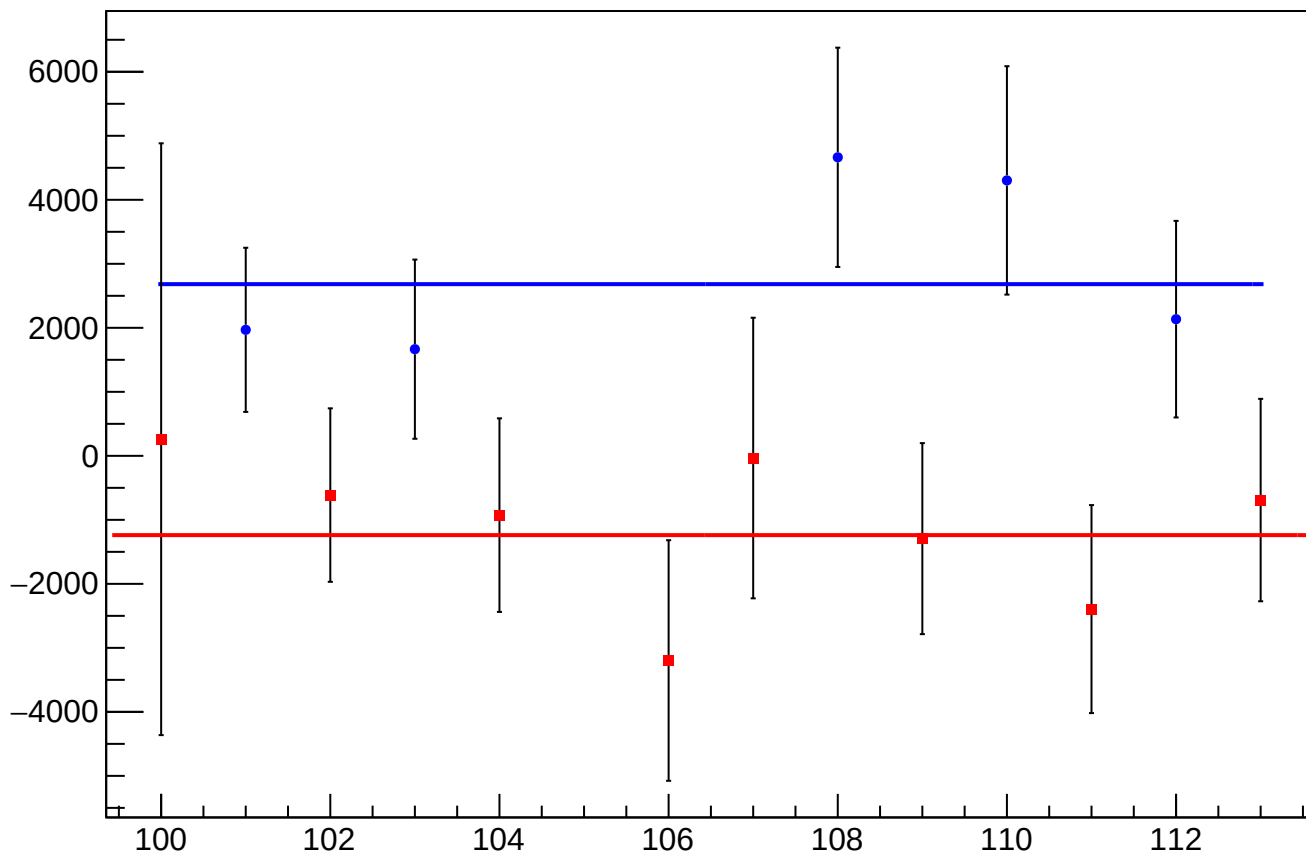
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1521.358+/-0.455  $\chi^2/\text{NDF}$ : 374626.9/12

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

# dit\_asym\_usr\_mean vs Slug



Right In: 2682.220 $\pm$ 674.547  $\chi^2$ /NDF: 3.1/4

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

Right Out: -1238.656 $\pm$ 603.277  $\chi^2$ /NDF: 2.4/7

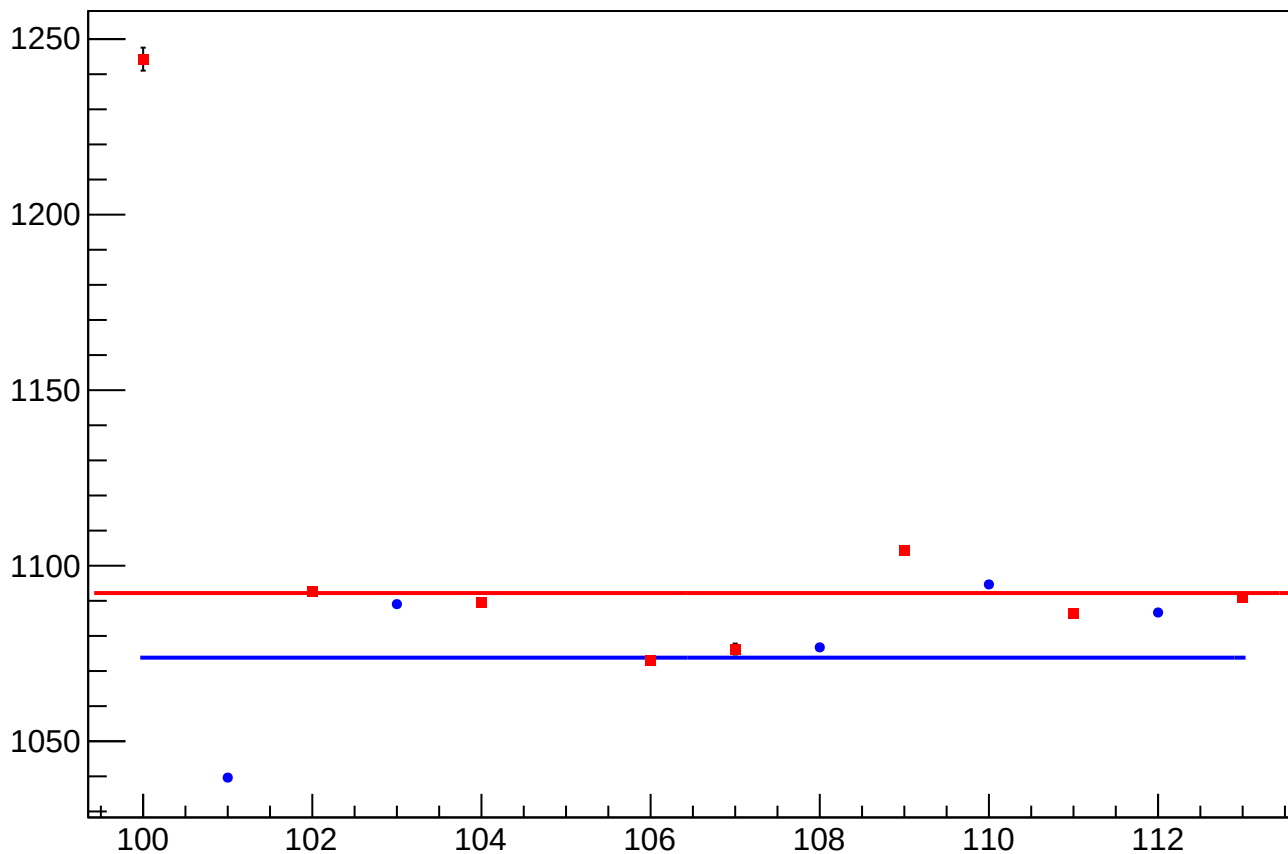
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 503.774 $\pm$ 449.675  $\chi^2$ /NDF: 24.3/12

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

# dit\_asym\_usr\_rms vs Slug



Right In: 1073.811+/-0.477  $\chi^2/\text{NDF}$ : 2077.3/4

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

Right Out: 1092.214+/-0.427  $\chi^2/\text{NDF}$ : 2646.1/7

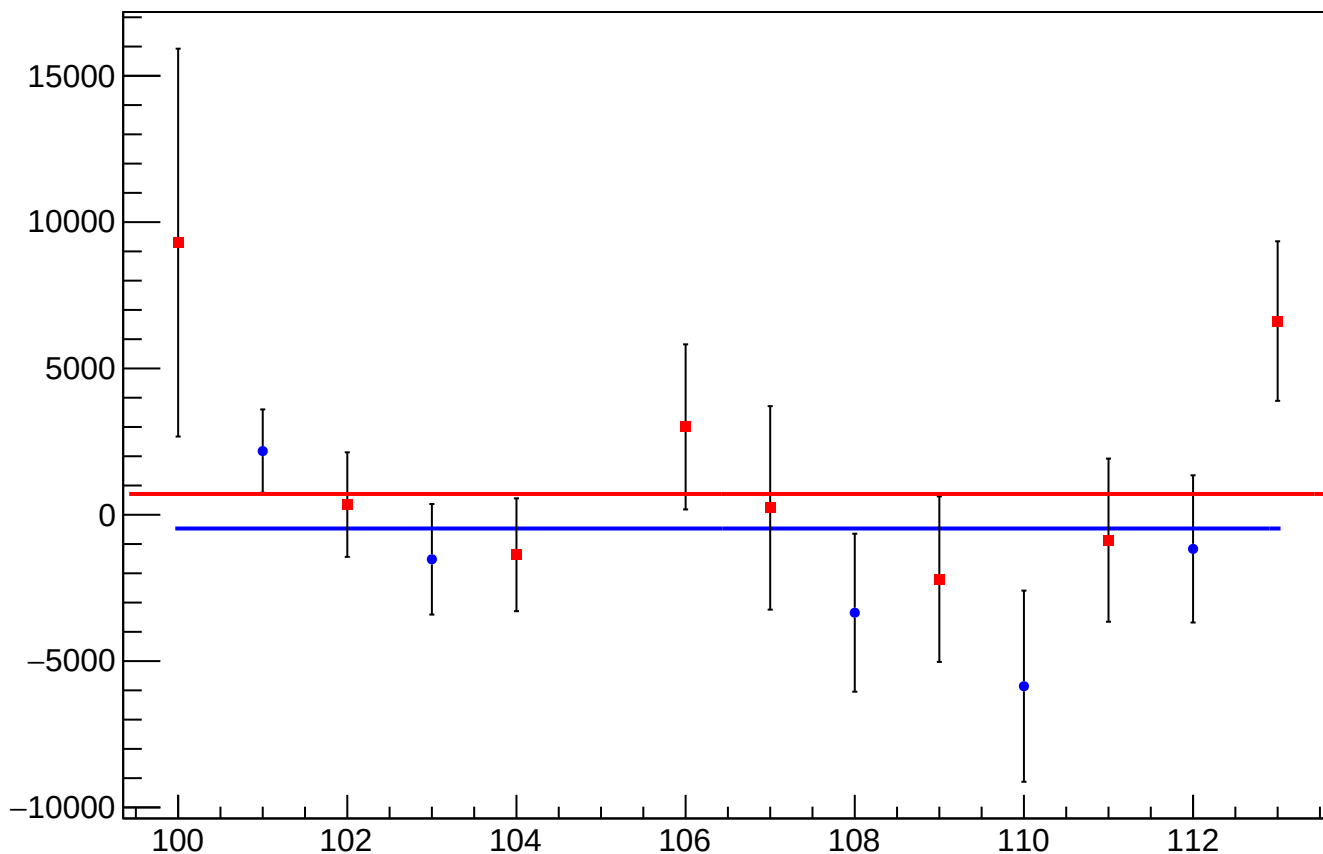
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1084.036+/-0.318  $\chi^2/\text{NDF}$ : 5550.5/12

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

# asym\_usr\_dit\_correction\_mean vs Slug



Right In: -468.812+/-927.465  $\chi^2/\text{NDF}$ : 7.7/4

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

Right Out: 711.256+/-912.208  $\chi^2/\text{NDF}$ : 9.6/7

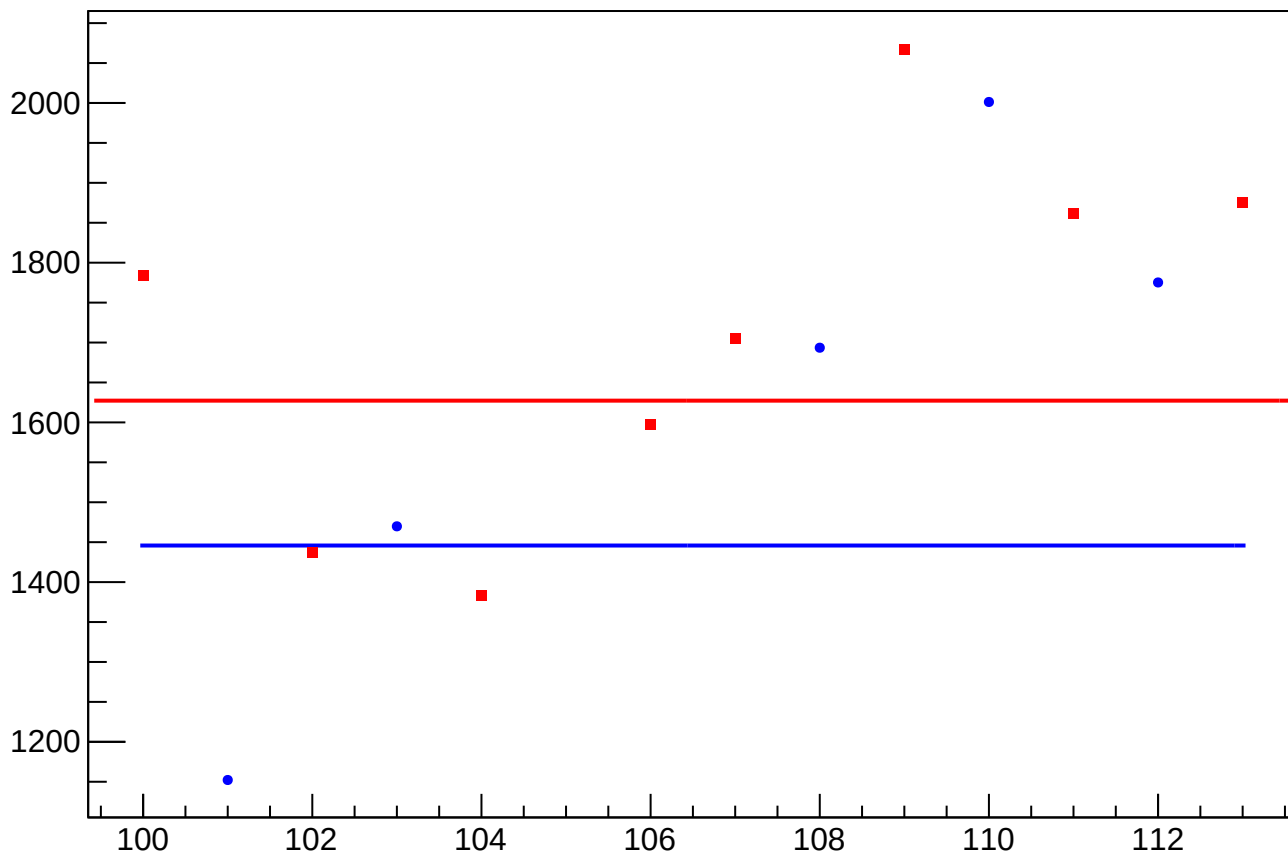
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 131.008+/-650.355  $\chi^2/\text{NDF}$ : 18.2/12

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

# asym\_usr\_dit\_correction\_rms vs Slug



Right In: 1445.820+/-0.656  $\chi^2/\text{NDF}$ : 194374.9/4

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

Right Out: 1627.241+/-0.645  $\chi^2/\text{NDF}$ : 135919.1/7

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

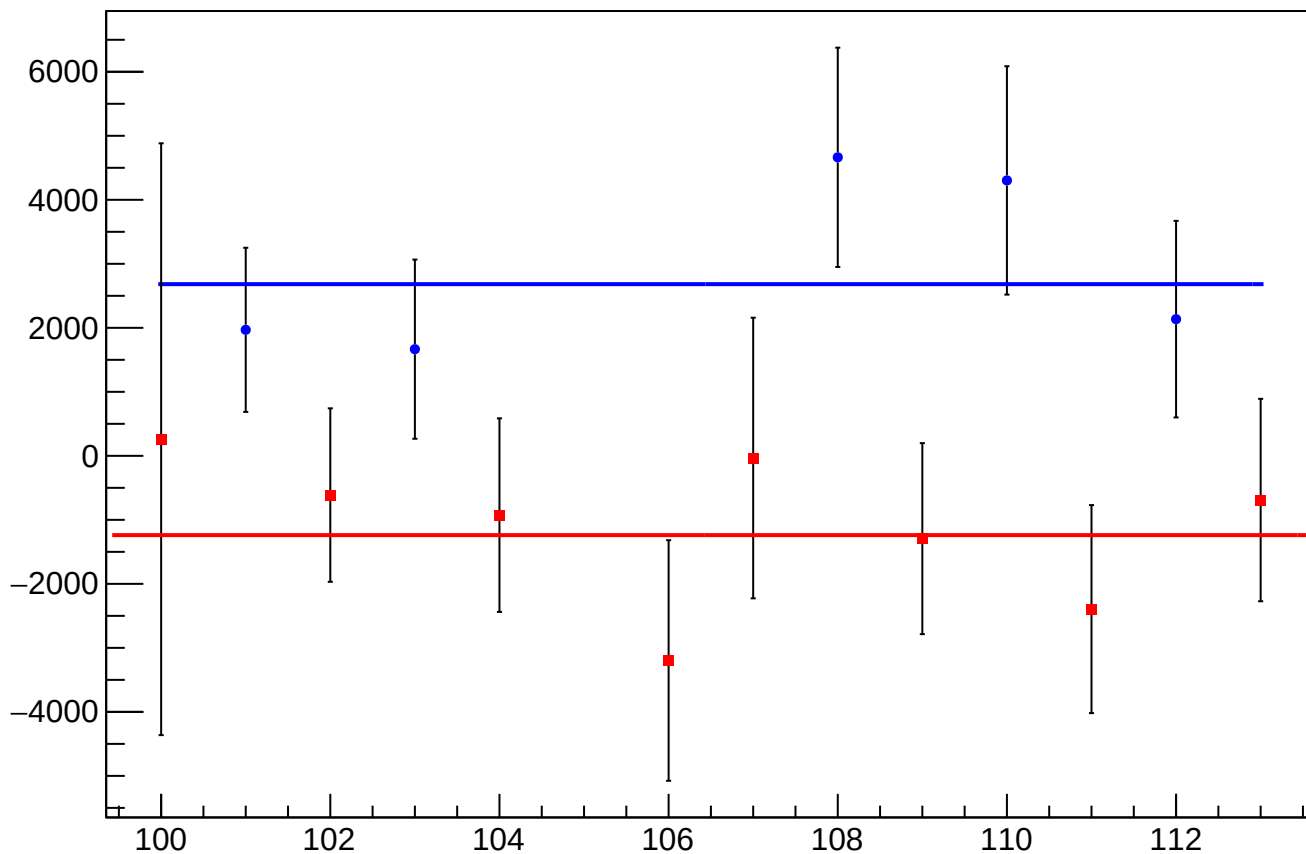
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1538.035+/-0.460  $\chi^2/\text{NDF}$ : 369191.5/12

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



# eigen\_dit\_asym\_usr\_mean vs Slug



Right In: 2682.223 $\pm$ 674.547  $\chi^2$ /NDF: 3.1/4

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

Right Out: -1238.658 $\pm$ 603.277  $\chi^2$ /NDF: 2.4/7

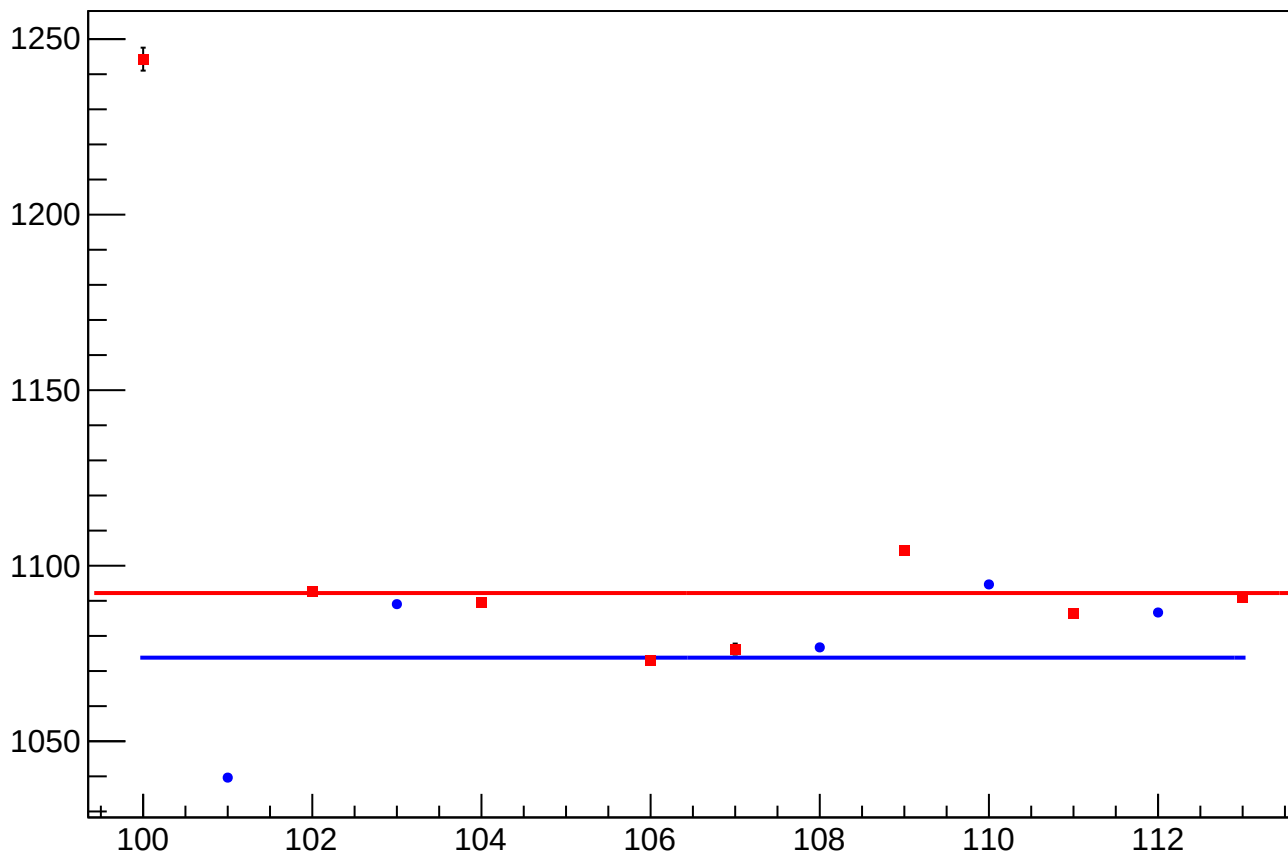
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 503.774 $\pm$ 449.675  $\chi^2$ /NDF: 24.3/12

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

# eigen\_dit\_asym\_usr\_rms vs Slug



Right In: 1073.811+/-0.477  $\chi^2/\text{NDF}$ : 2077.3/4

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

Right Out: 1092.214+/-0.427  $\chi^2/\text{NDF}$ : 2646.1/7

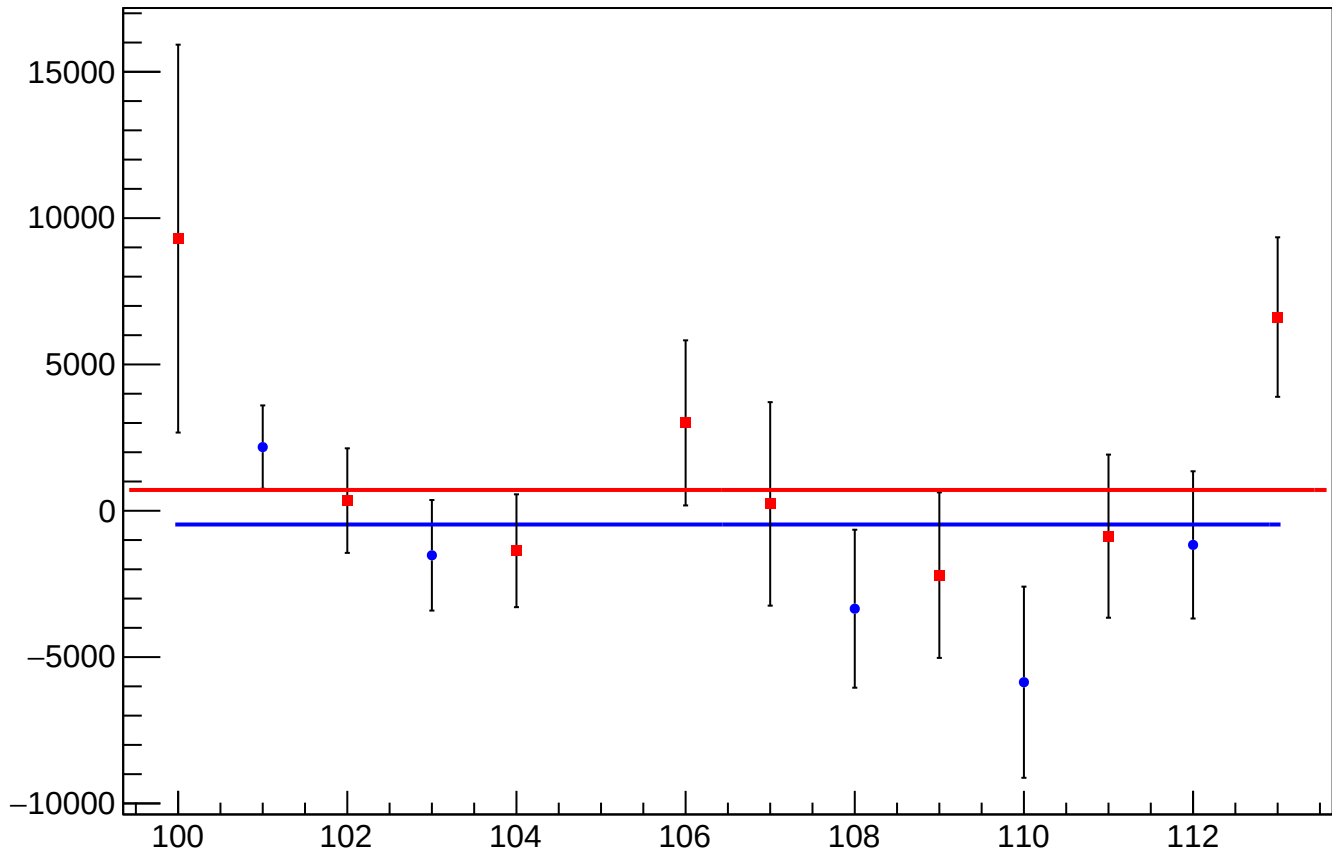
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1084.036+/-0.318  $\chi^2/\text{NDF}$ : 5550.5/12

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

# asym\_usr\_eigen\_dit\_correction\_mean vs Slug



Right In: -468.814 $\pm$ 927.464  $\chi^2$ /NDF: 7.7/4

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

Right Out: 711.262 $\pm$ 912.208  $\chi^2$ /NDF: 9.6/7

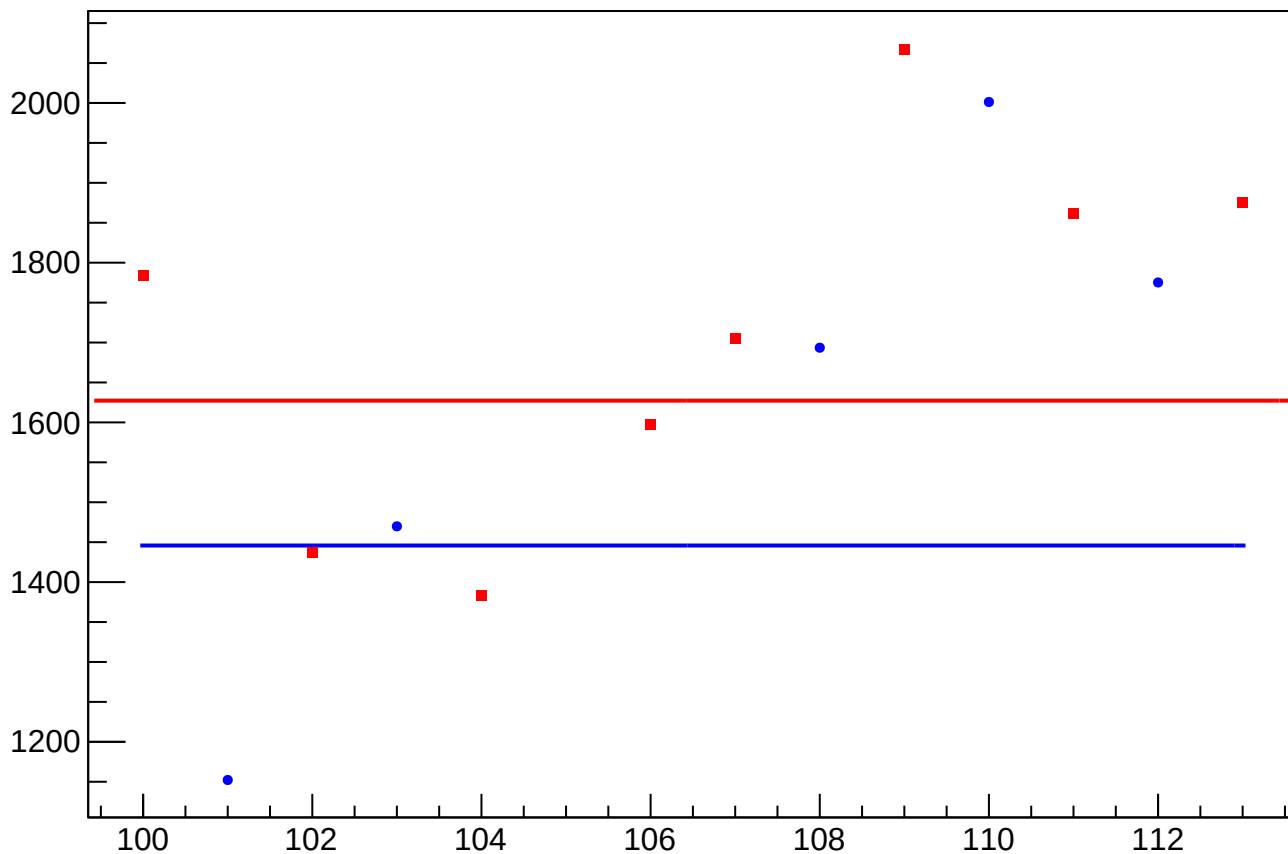
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 131.010 $\pm$ 650.355  $\chi^2$ /NDF: 18.2/12

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

# asym\_usr\_eigen\_dit\_correction\_rms vs Slug



Right In: 1445.819+/-0.656  $\chi^2/\text{NDF}$ : 194371.9/4

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

Right Out: 1627.242+/-0.645  $\chi^2/\text{NDF}$ : 135914.0/7

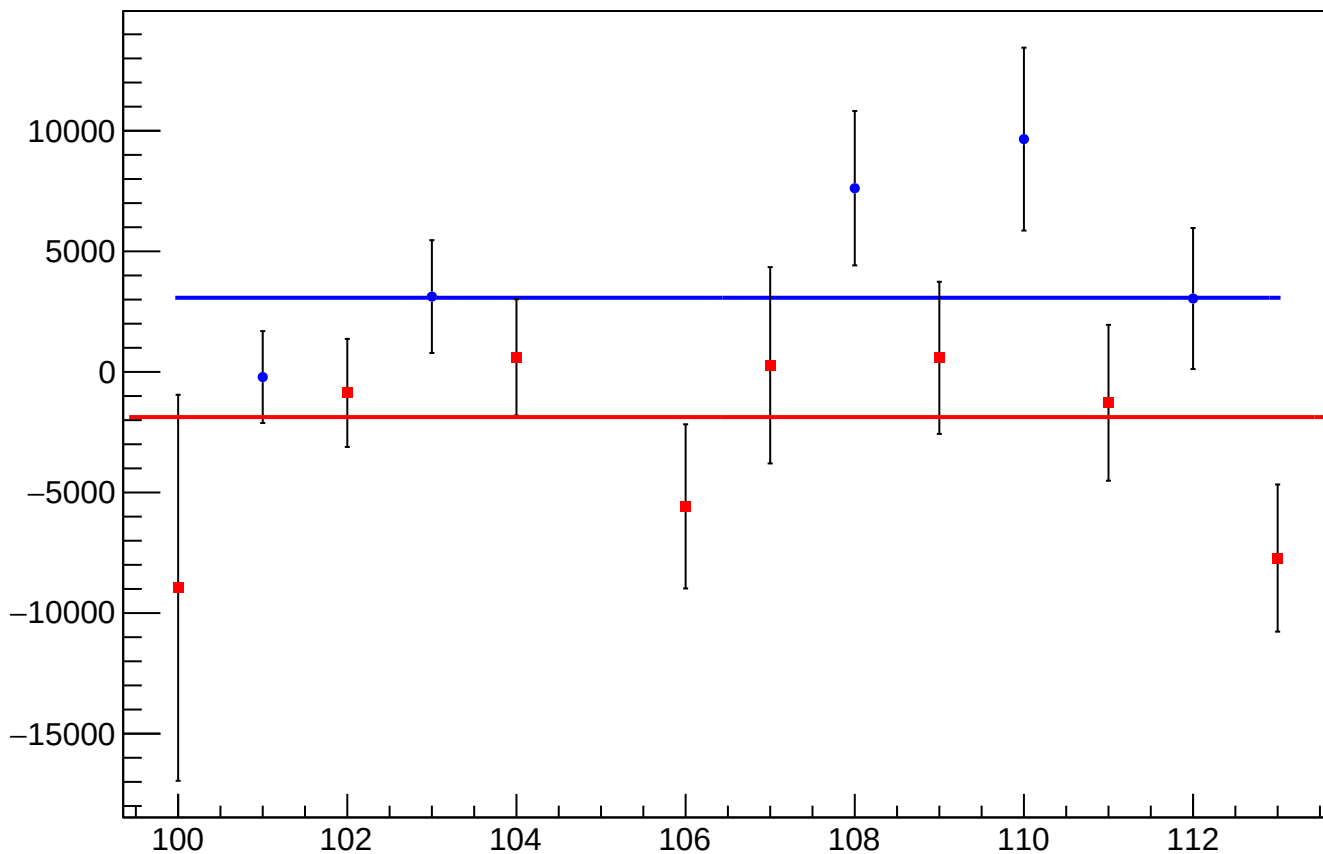
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1538.035+/-0.460  $\chi^2/\text{NDF}$ : 369184.2/12

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

# asym\_usr\_mean vs Slug



Right In: 3075.836 $\pm$ 1160.794  $\chi^2$ /NDF: 8.0/4

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

Right Out: -1872.273 $\pm$ 1093.107  $\chi^2$ /NDF: 7.8/7

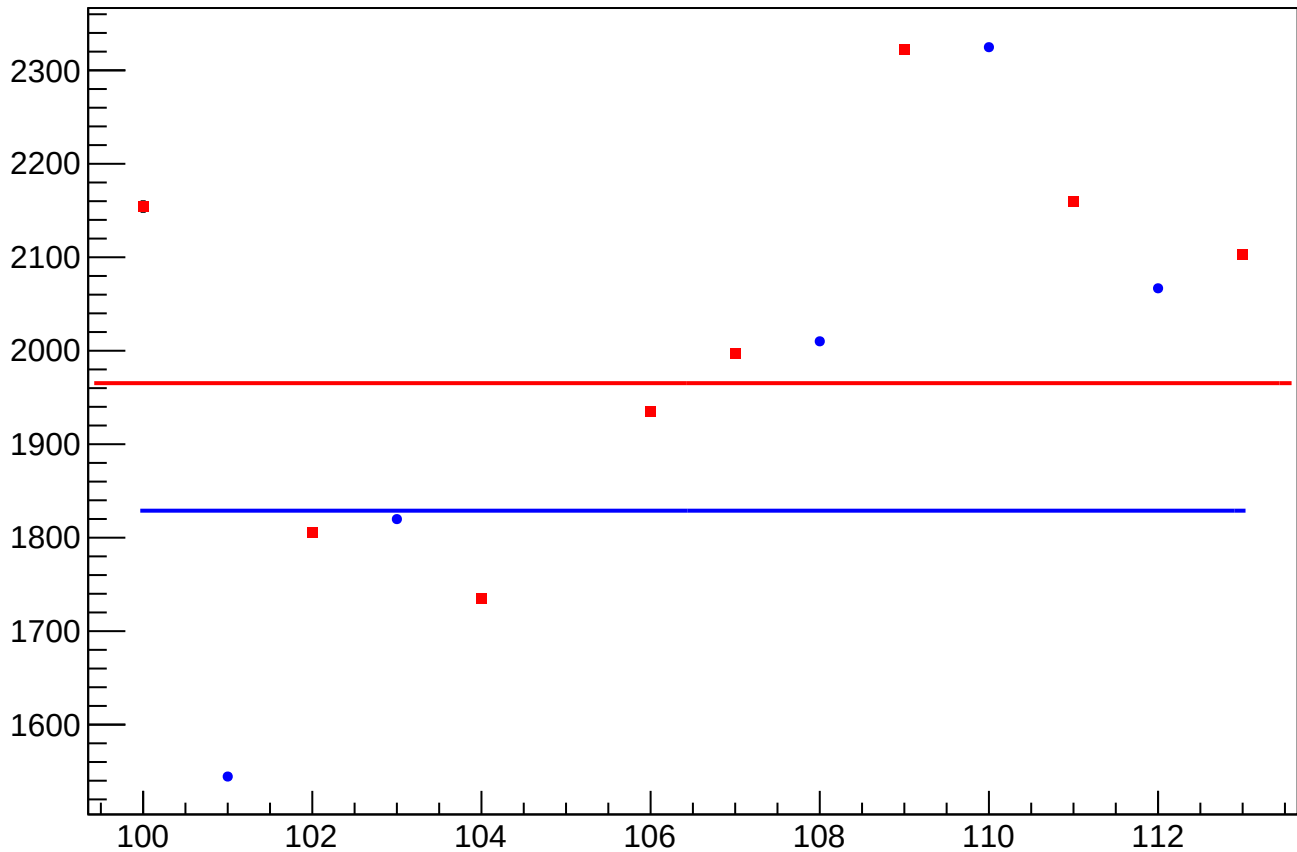
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 453.320 $\pm$ 795.797  $\chi^2$ /NDF: 25.4/12

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

# asym\_usr\_rms vs Slug



Right In: 1828.884+/-0.821  $\chi^2/\text{NDF}$ : 98440.9/4

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

Right Out: 1965.317+/-0.773  $\chi^2/\text{NDF}$ : 66638.6/7

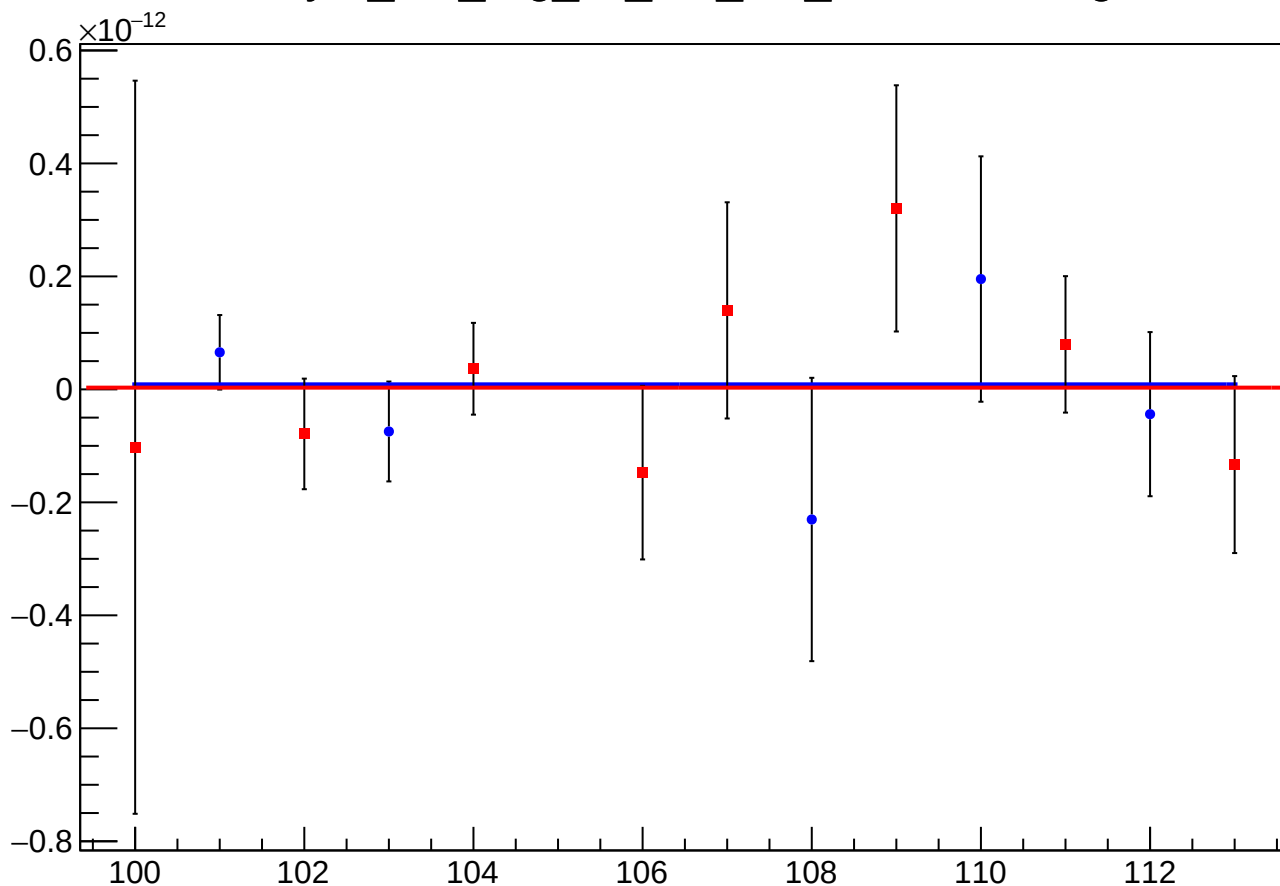
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1901.194+/-0.563  $\chi^2/\text{NDF}$ : 179722.7/12

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

# asym\_usr\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.4/4

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

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.6/7

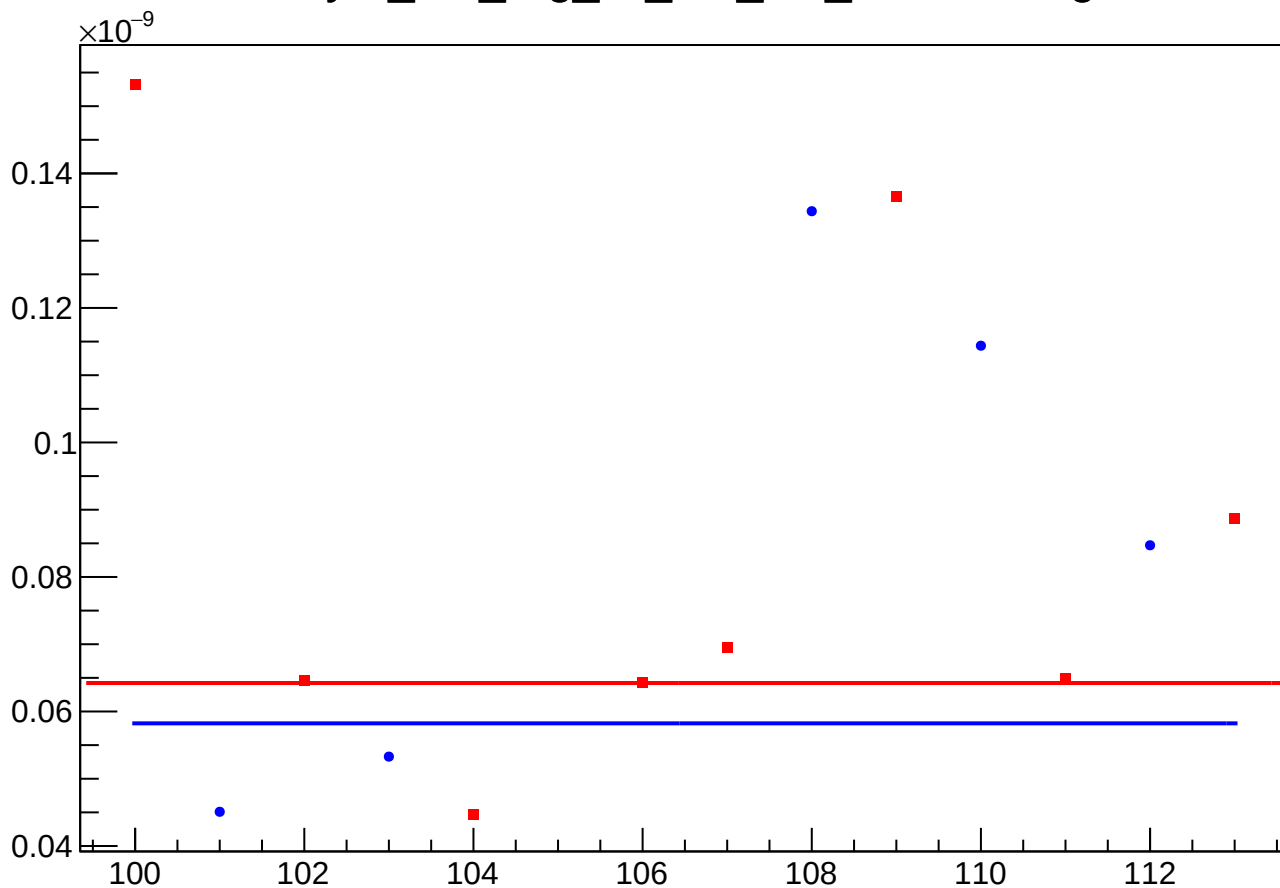
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.1/12

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

# asym\_usr\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 470191.9/4

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 423561.1/7

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

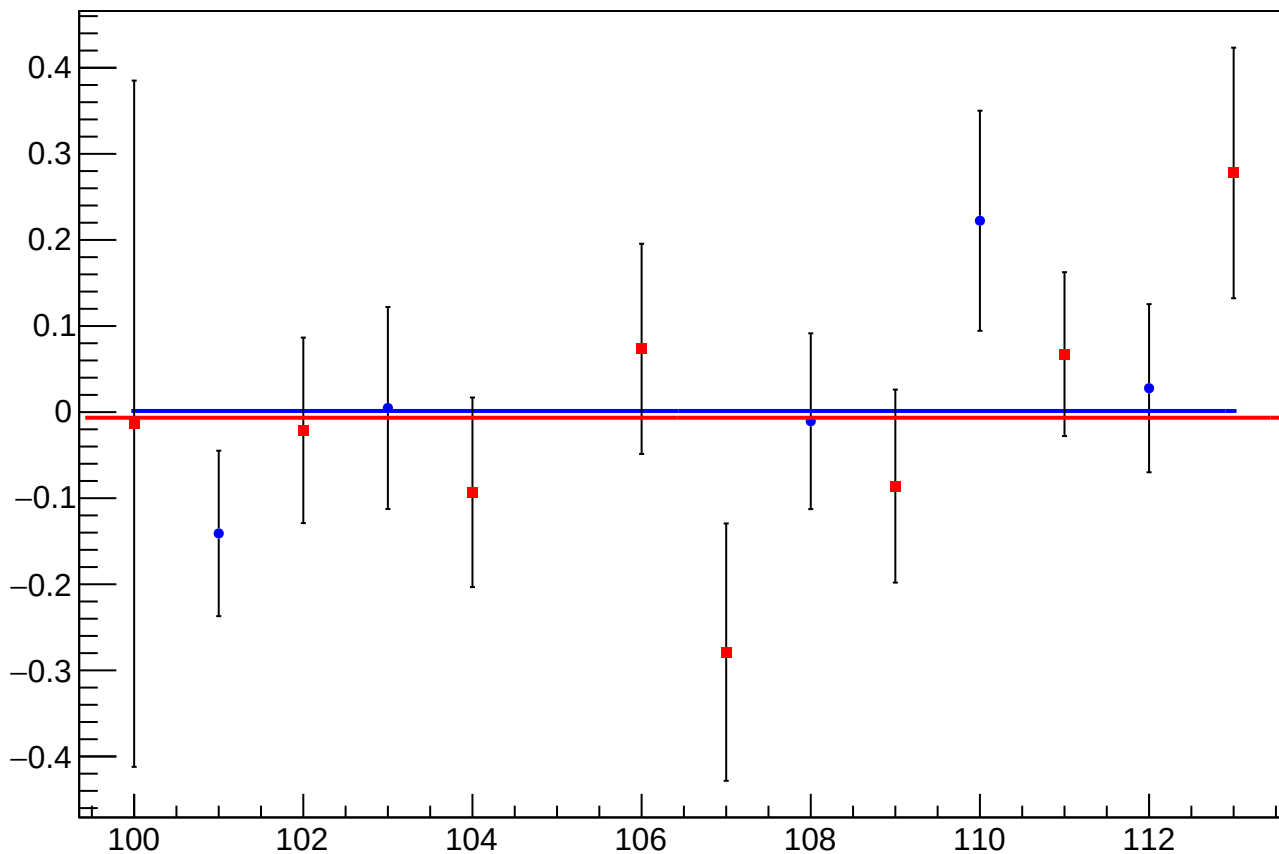
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 909958.8/12

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



# asym\_usr\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.001 $\pm$ 0.048  $\chi^2$ /NDF: 5.3/4

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

Right Out: -0.007 $\pm$ 0.044  $\chi^2$ /NDF: 9.3/7

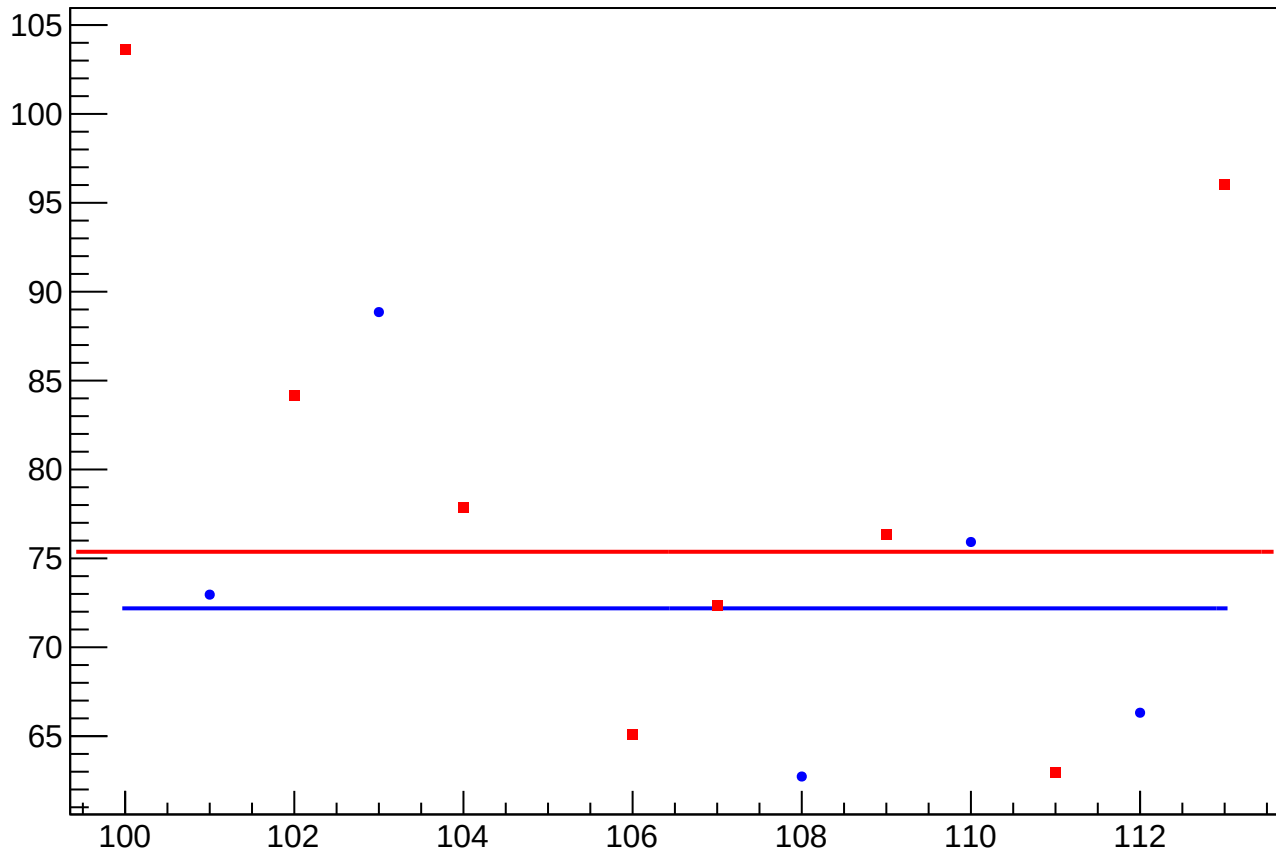
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.003 $\pm$ 0.032  $\chi^2$ /NDF: 14.6/12

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

# asym\_usr\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 72.189+/-0.034  $\chi^2/\text{NDF}$ : 66590.6/4

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

Right Out: 75.371+/-0.031  $\chi^2/\text{NDF}$ : 113903.8/7

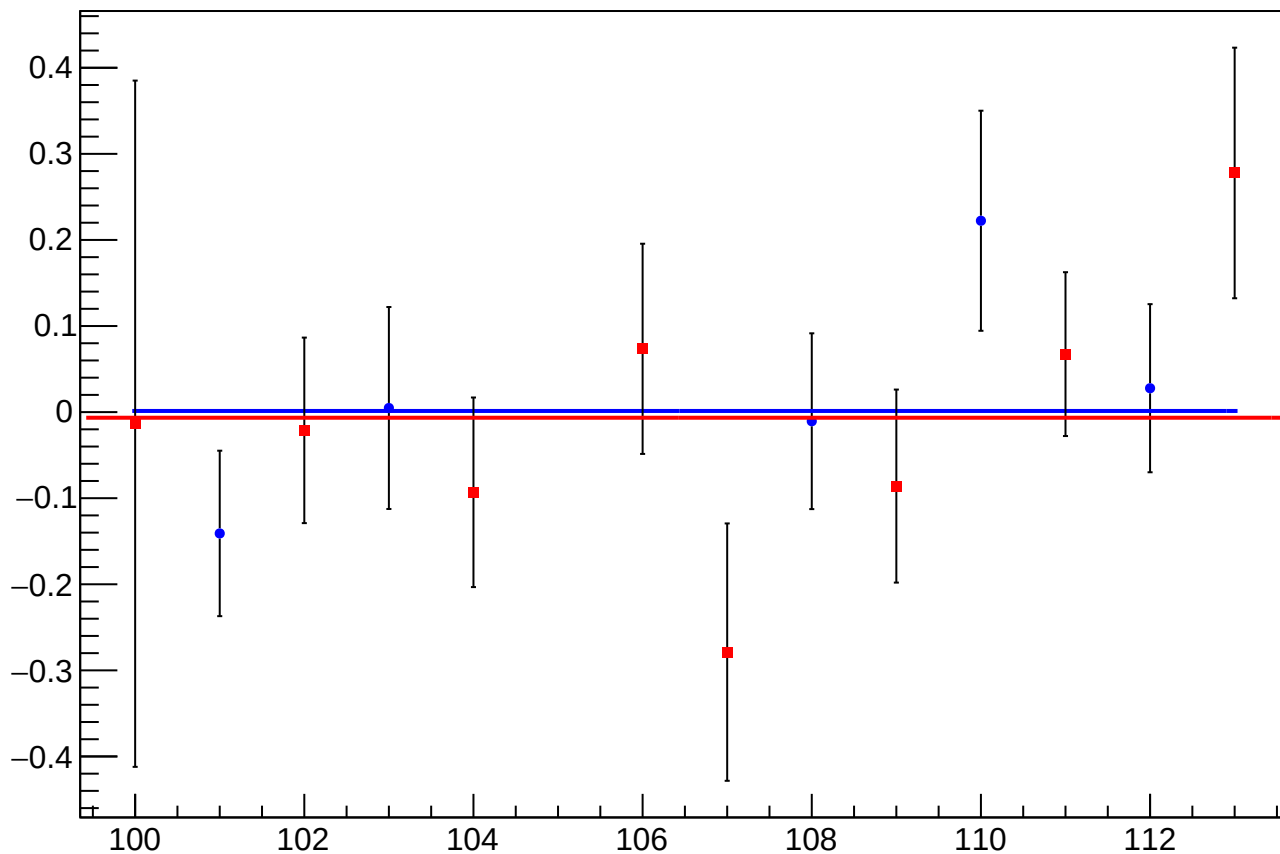
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 73.913+/-0.023  $\chi^2/\text{NDF}$ : 185356.0/12

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

# asym\_usr\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.001 $\pm$ 0.048  $\chi^2$ /NDF: 5.3/4

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

Right Out: -0.007 $\pm$ 0.044  $\chi^2$ /NDF: 9.3/7

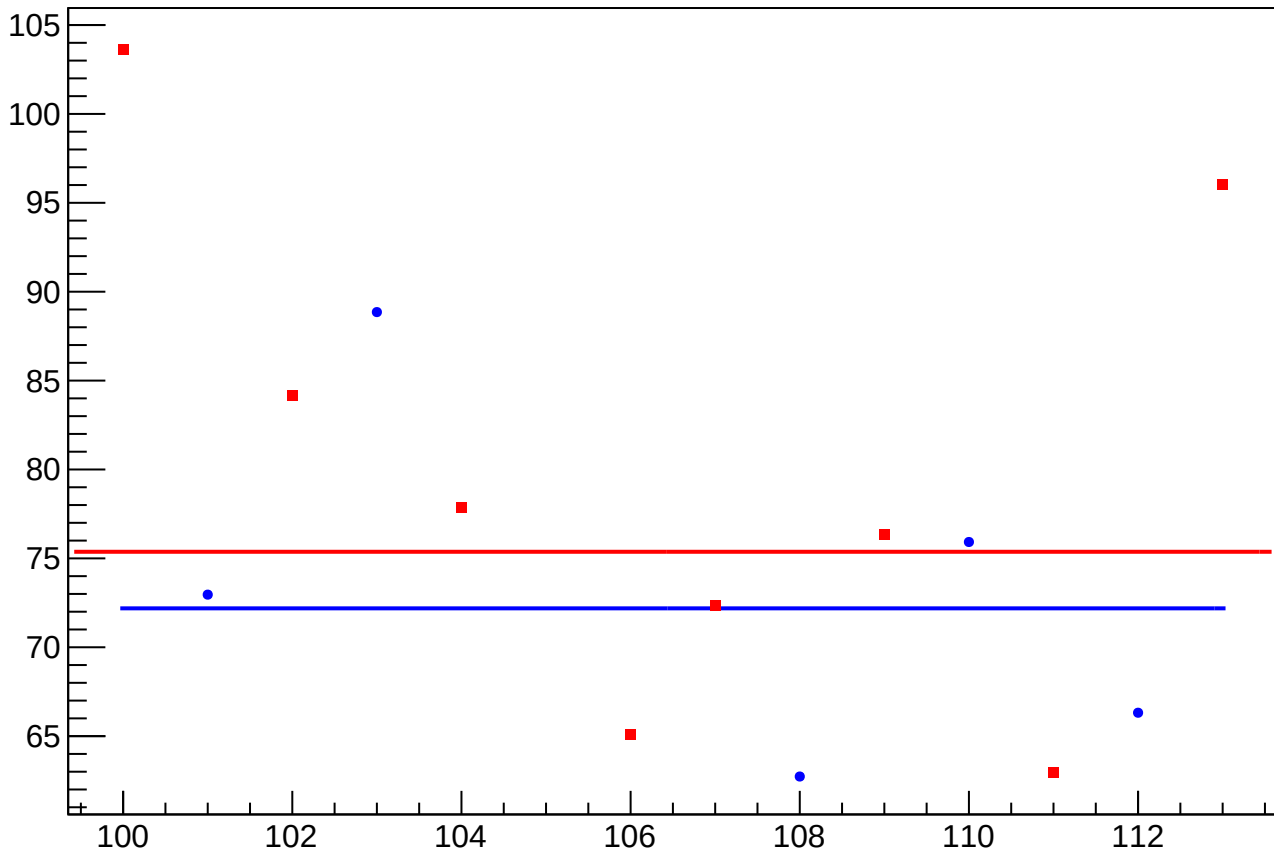
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.003 $\pm$ 0.032  $\chi^2$ /NDF: 14.6/12

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

# asym\_usr\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 72.189+/-0.034  $\chi^2/\text{NDF}$ : 66590.6/4

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

Right Out: 75.371+/-0.031  $\chi^2/\text{NDF}$ : 113903.8/7

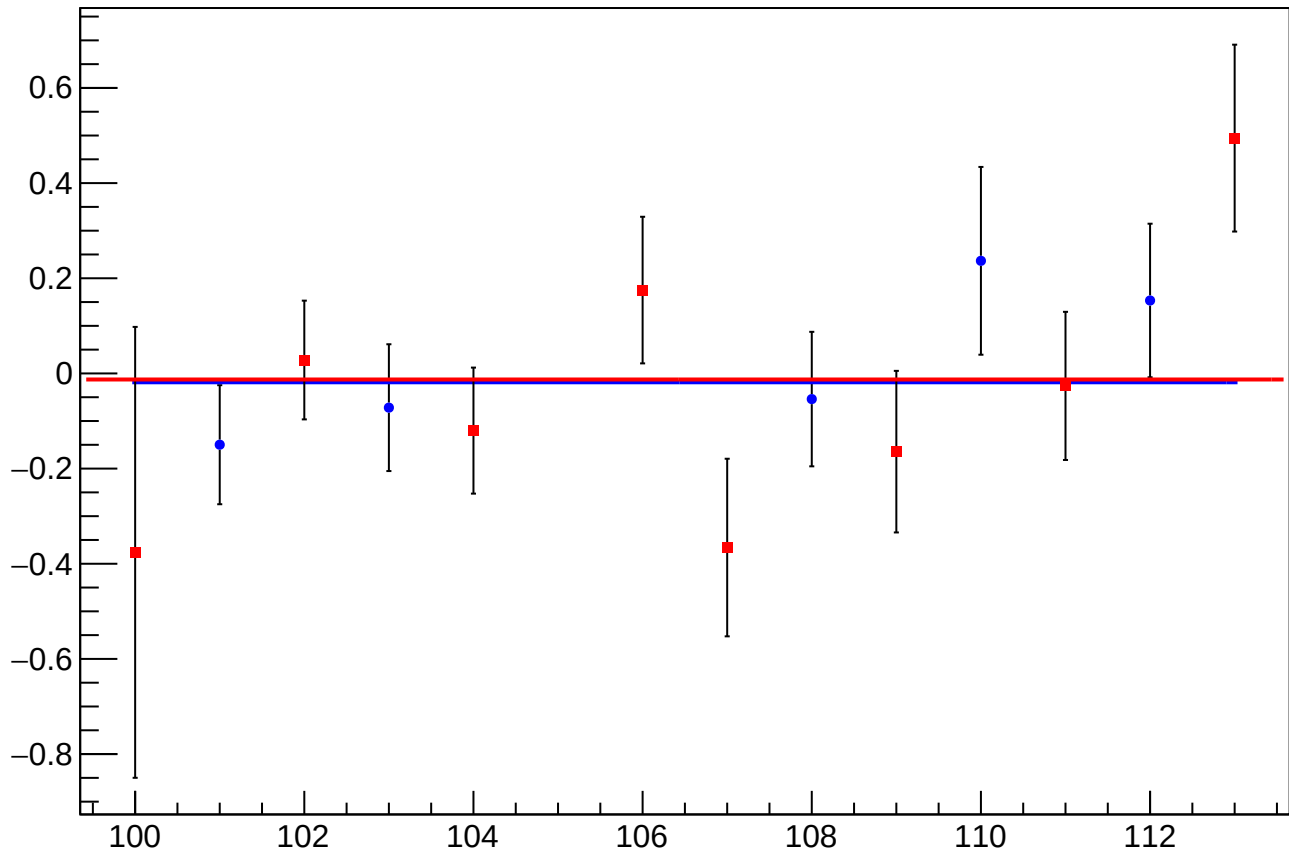
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 73.913+/-0.023  $\chi^2/\text{NDF}$ : 185356.0/12

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

asym\_usr\_dit\_vs\_overload\_cor\_diff\_mean vs Slug



Right In:  $-0.019 \pm 0.065$   $\chi^2/\text{NDF}$ : 4.1/4

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

Right Out:  $-0.013 \pm 0.058$   $\chi^2/\text{NDF}$ : 13.9/7

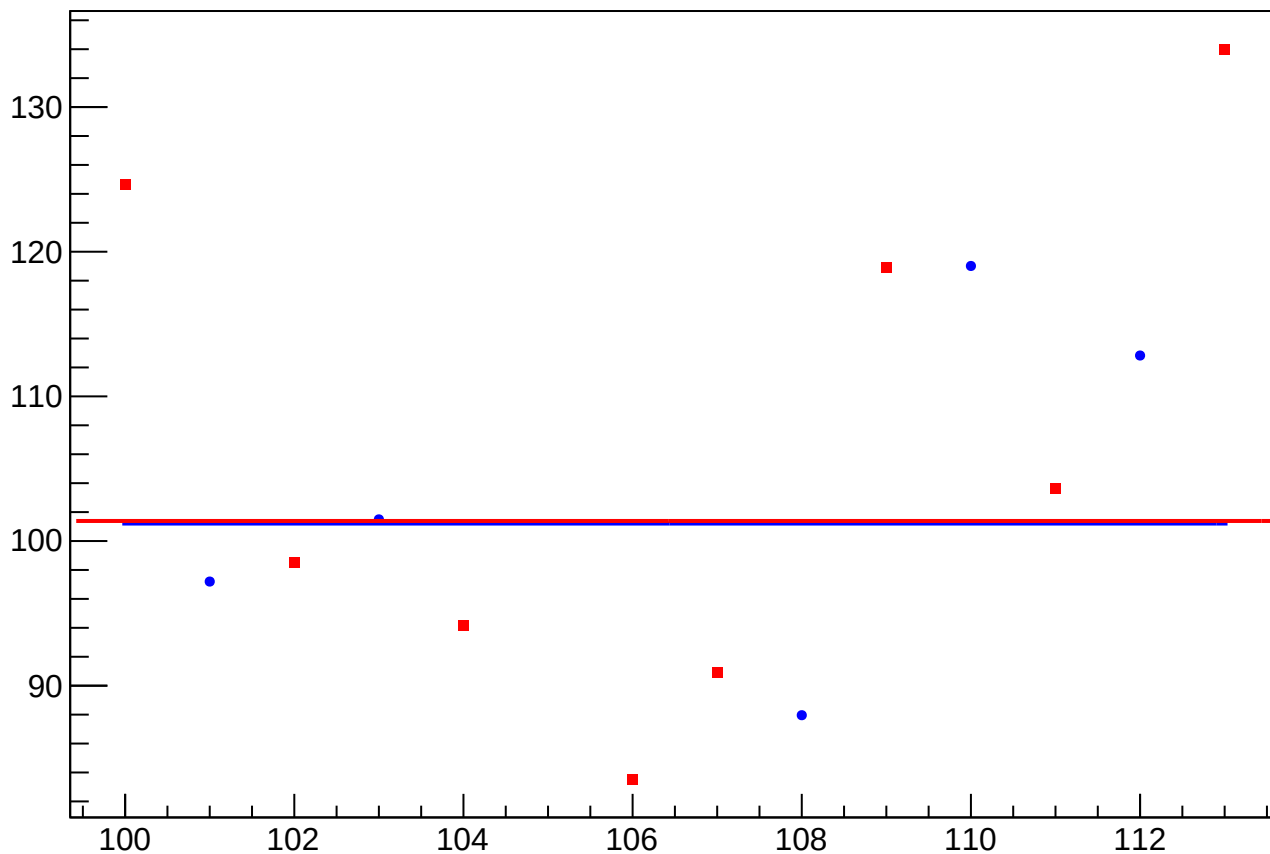
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.015 \pm 0.043$   $\chi^2/\text{NDF}$ : 18.0/12

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

# asym\_usr\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In: 101.209 $\pm$ 0.046  $\chi^2$ /NDF: 46287.7/4

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

Right Out: 101.387 $\pm$ 0.041  $\chi^2$ /NDF: 121600.9/7

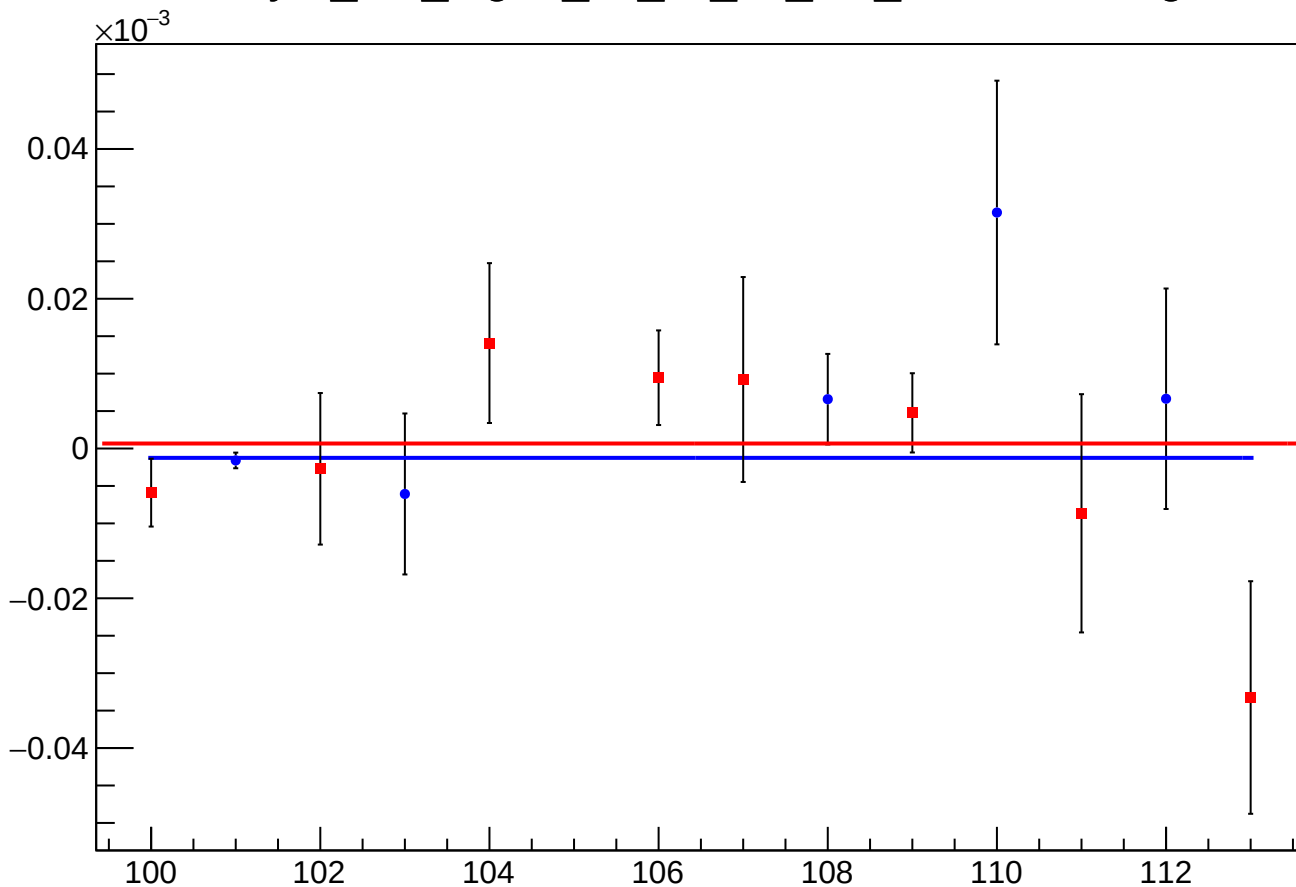
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 101.309 $\pm$ 0.031  $\chi^2$ /NDF: 167896.9/12

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

# asym\_usr\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.7/4

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.8/7

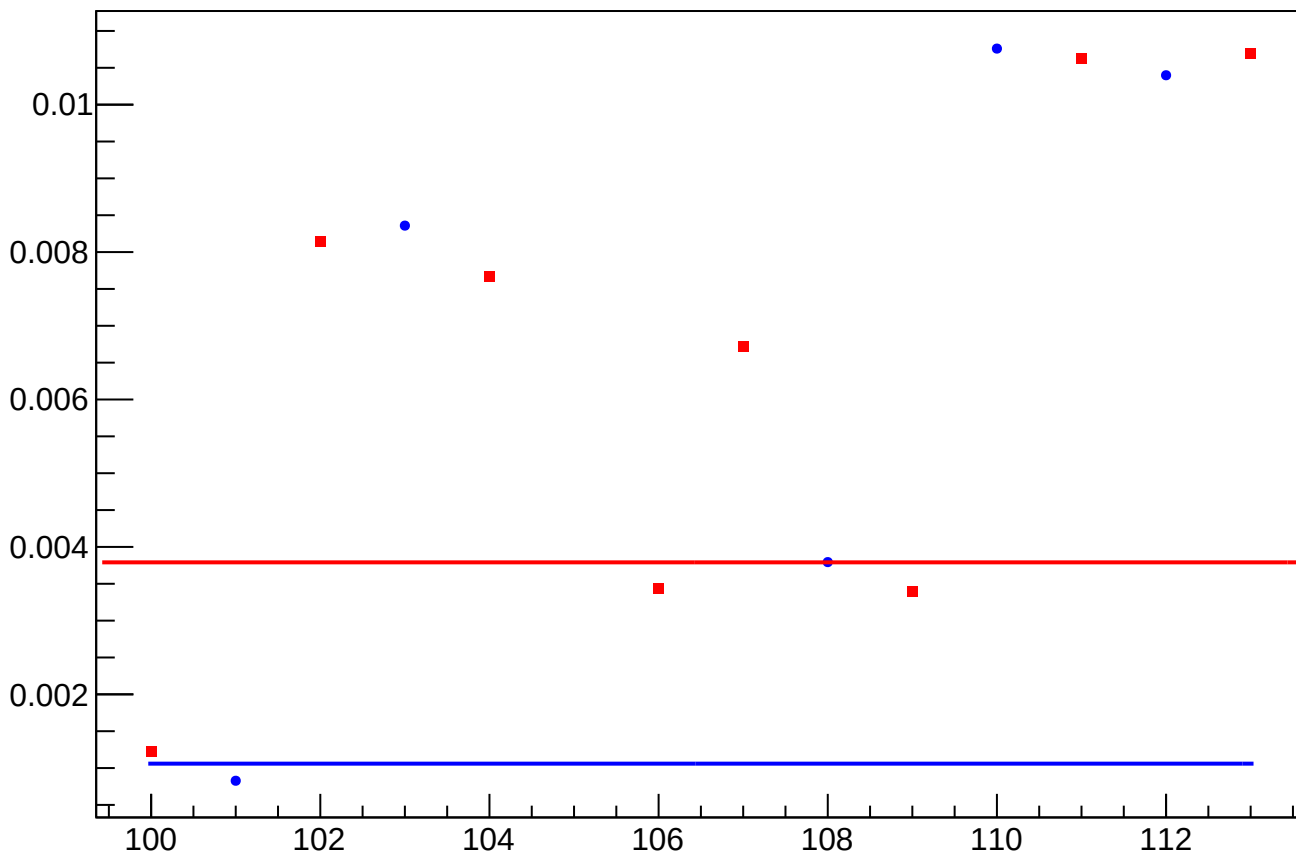
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.0/12

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

# asym\_usr\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2841998.4/4

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

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 2150438.9/7

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

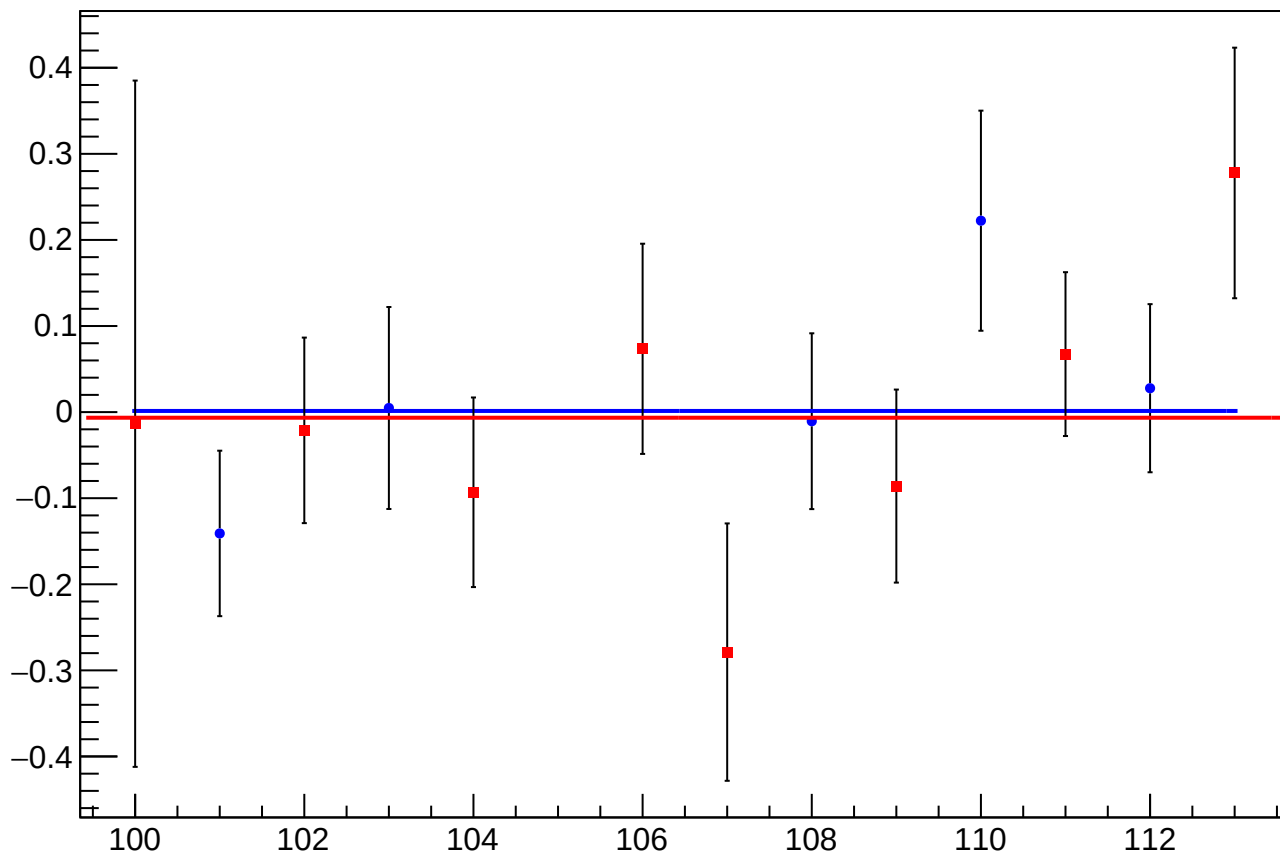
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 6830806.9/12

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



# asym\_usr\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.001 $\pm$ 0.048  $\chi^2$ /NDF: 5.3/4

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

Right Out: -0.007 $\pm$ 0.044  $\chi^2$ /NDF: 9.3/7

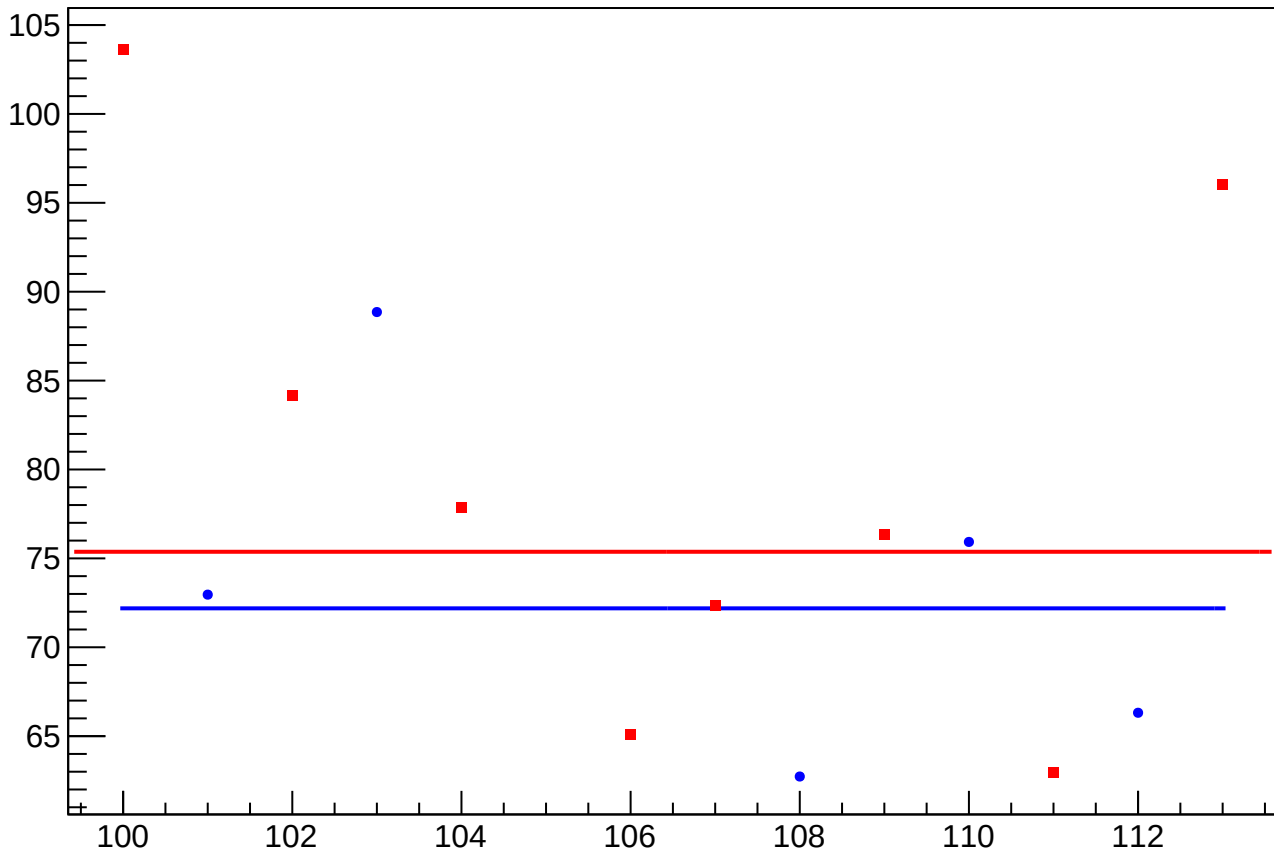
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.003 $\pm$ 0.032  $\chi^2$ /NDF: 14.6/12

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

# asym\_usr\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 72.189 $\pm$ 0.034  $\chi^2$ /NDF: 66607.9/4

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

Right Out: 75.372 $\pm$ 0.031  $\chi^2$ /NDF: 113893.4/7

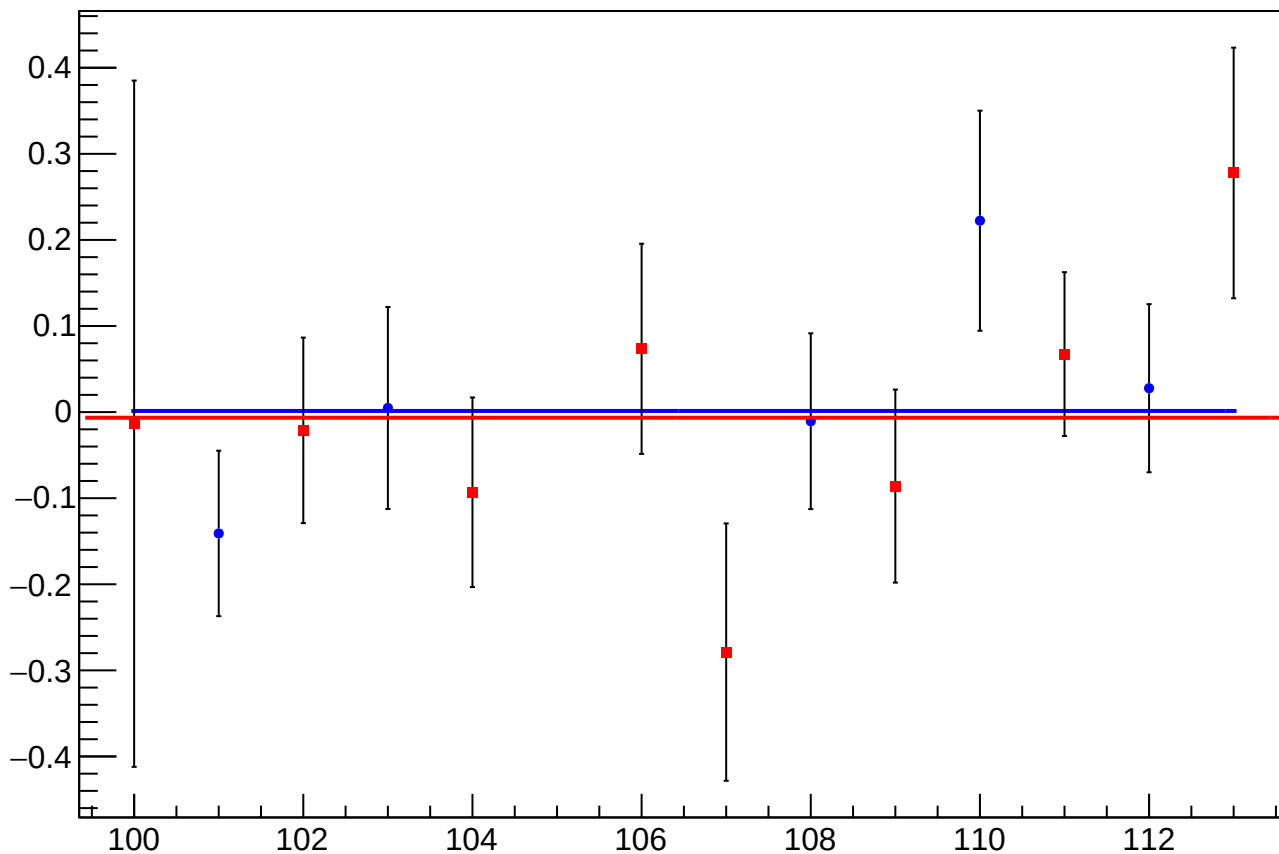
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 73.914 $\pm$ 0.023  $\chi^2$ /NDF: 185362.2/12

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

asym\_usr\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.001 $\pm$ 0.048  $\chi^2$ /NDF: 5.3/4

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

Right Out: -0.007 $\pm$ 0.044  $\chi^2$ /NDF: 9.3/7

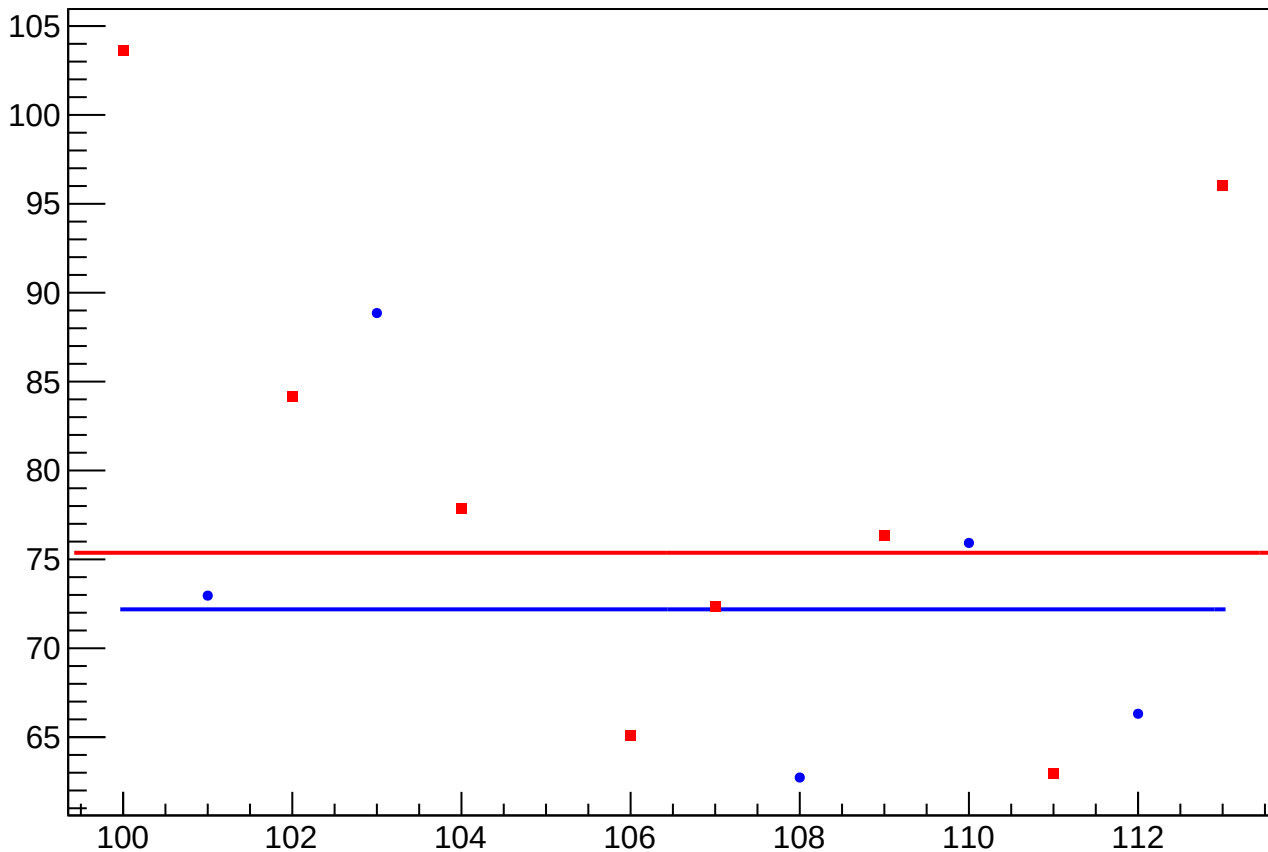
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.003 $\pm$ 0.032  $\chi^2$ /NDF: 14.6/12

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

# asym\_usr\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 72.189+/-0.034  $\chi^2/\text{NDF}$ : 66607.9/4

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

Right Out: 75.372+/-0.031  $\chi^2/\text{NDF}$ : 113893.4/7

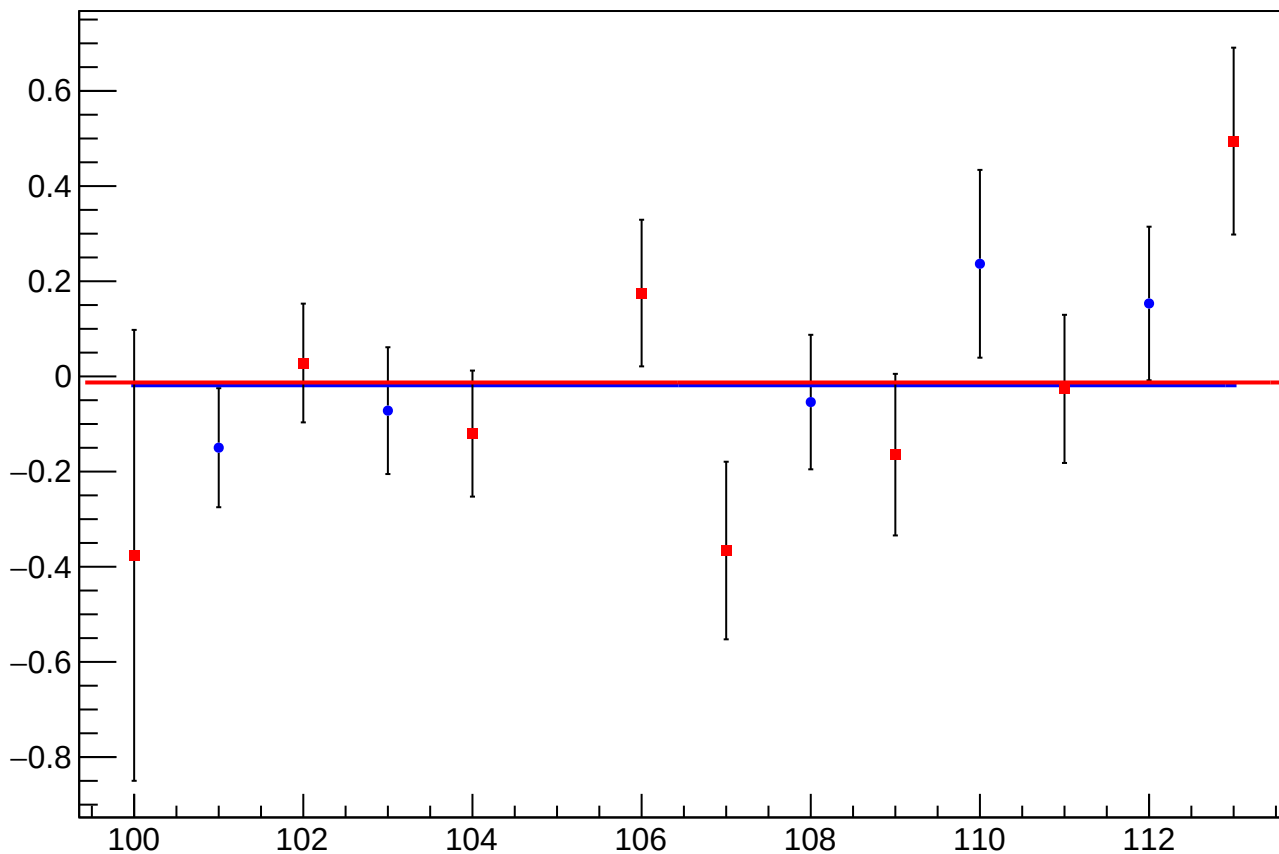
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 73.914+/-0.023  $\chi^2/\text{NDF}$ : 185362.2/12

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

asym\_usr\_eigen\_dit\_vs\_overload\_cor\_diff\_mean vs Slug



Right In:  $-0.019 \pm 0.065$   $\chi^2/\text{NDF}: 4.1/4$

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

Right Out:  $-0.013 \pm 0.058$   $\chi^2/\text{NDF}: 13.9/7$

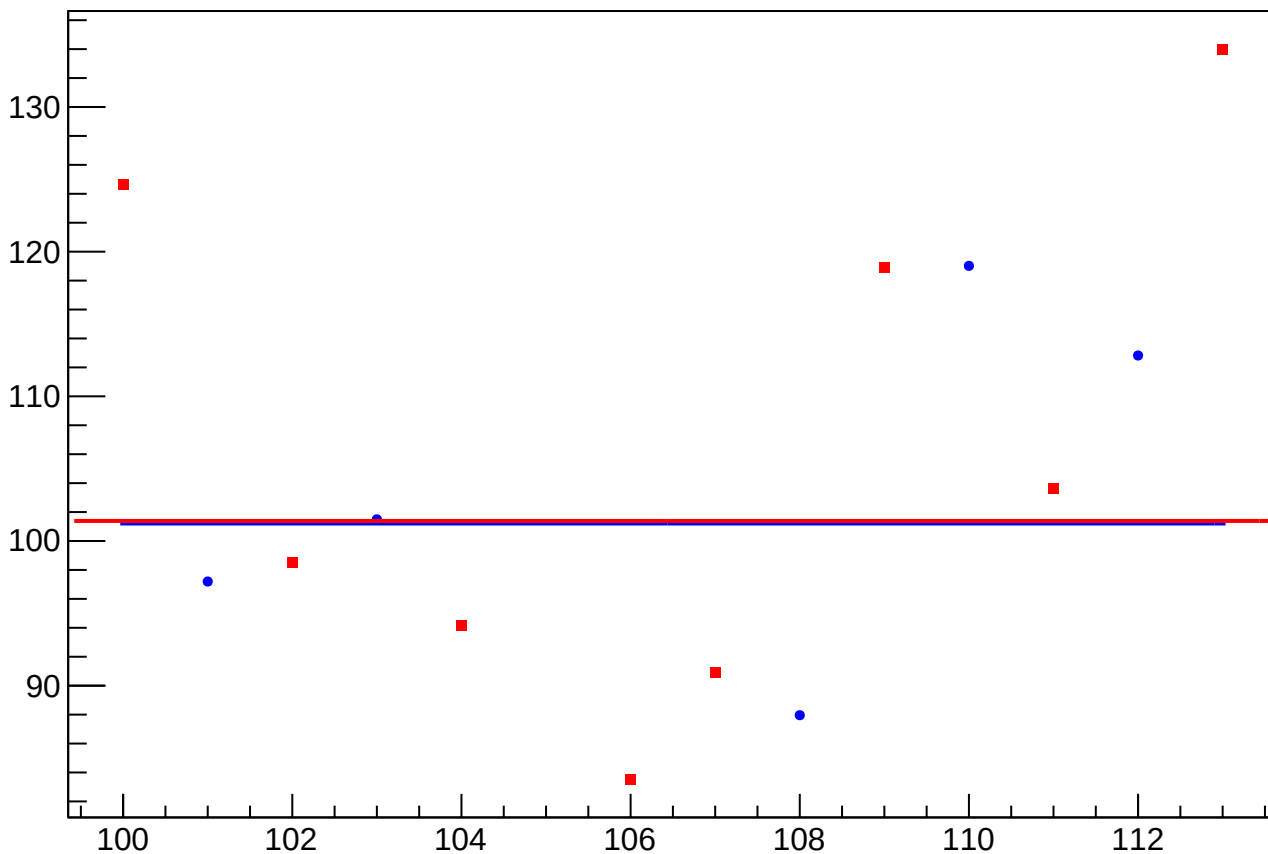
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

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

All:  $-0.015 \pm 0.043$   $\chi^2/\text{NDF}: 18.0/12$

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

asym\_usr\_eigen\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In: 101.210+/-0.046  $\chi^2/\text{NDF}$ : 46289.2/4

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

Right Out: 101.387+/-0.041  $\chi^2/\text{NDF}$ : 121586.1/7

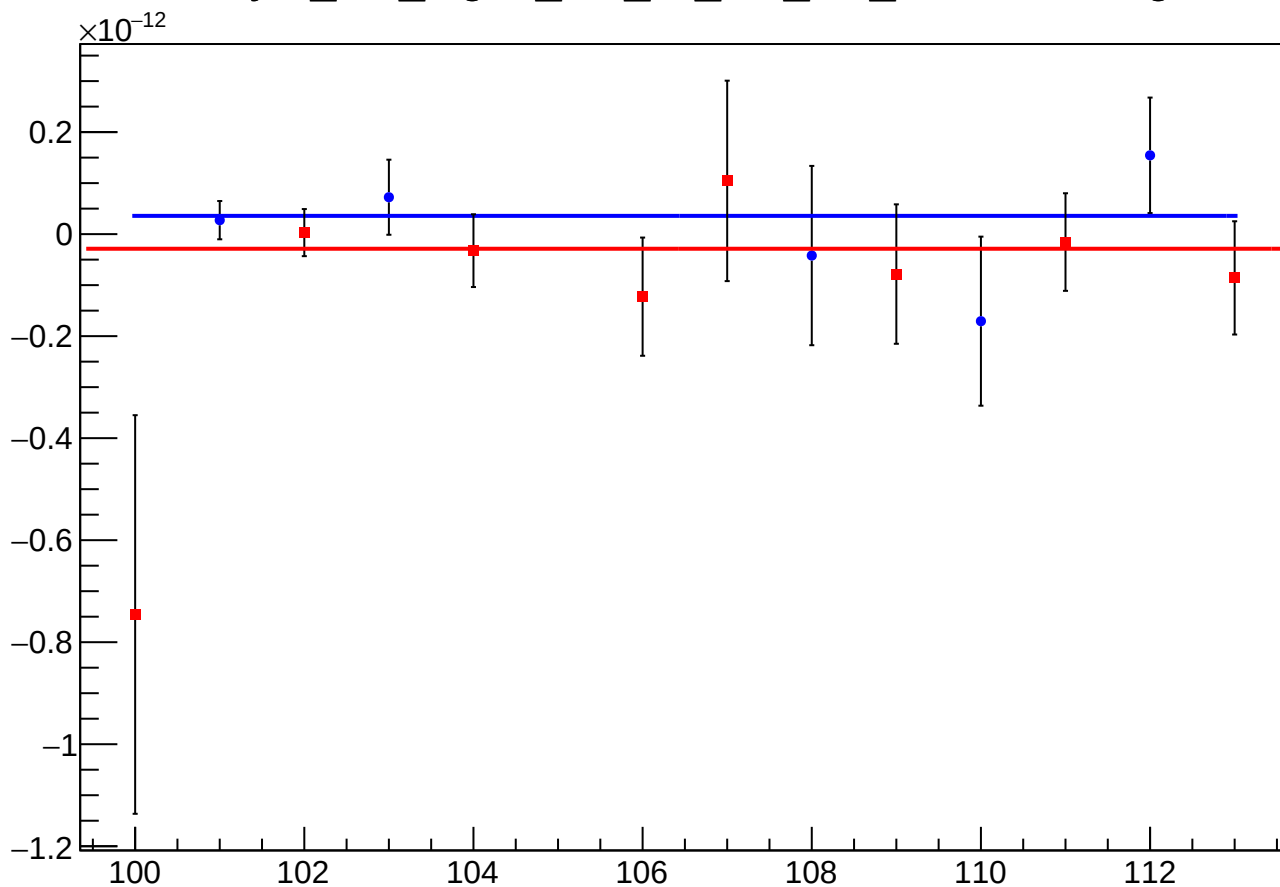
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 101.309+/-0.031  $\chi^2/\text{NDF}$ : 167883.6/12

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

# asym\_usr\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.1/4

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

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.4/7

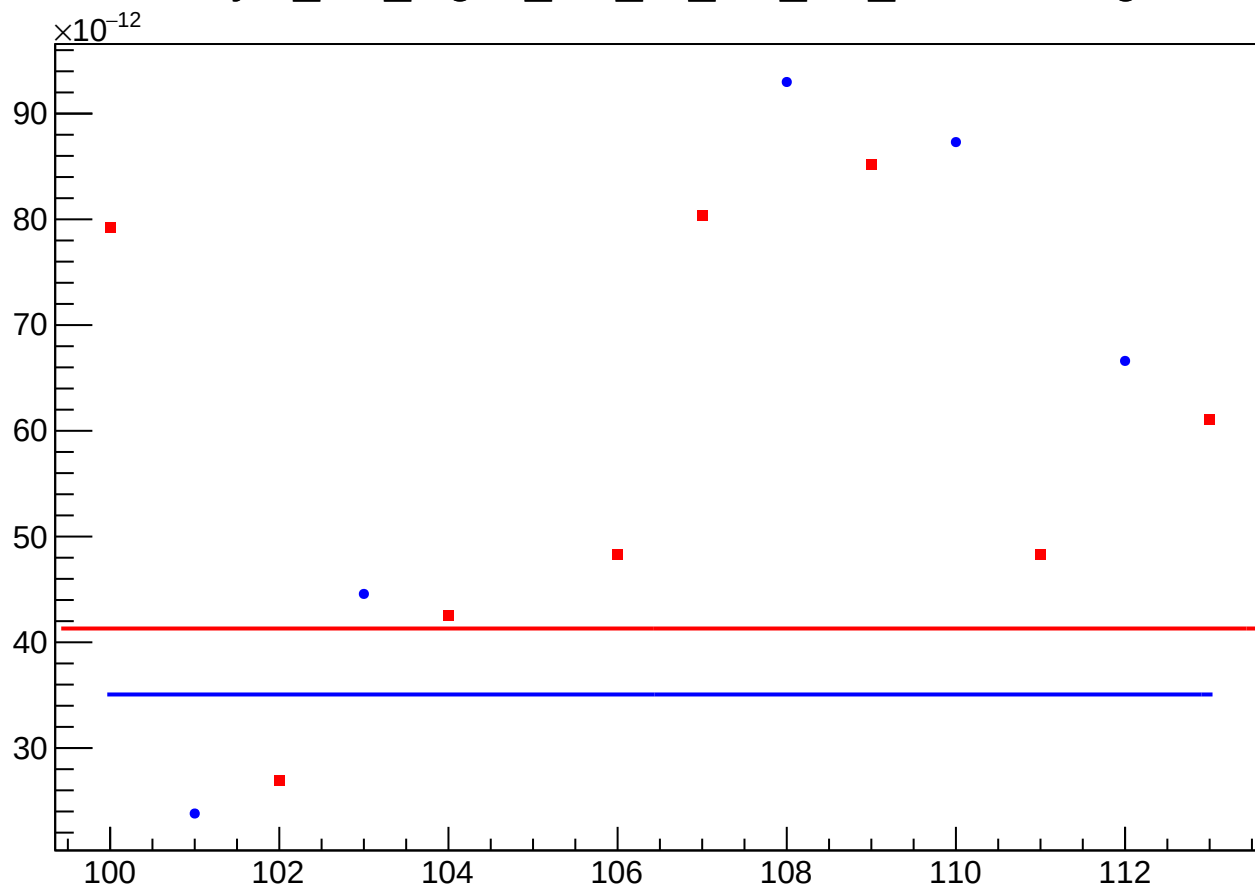
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.7/12

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

# asym\_usr\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 784744.0/4

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 579567.4/7

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

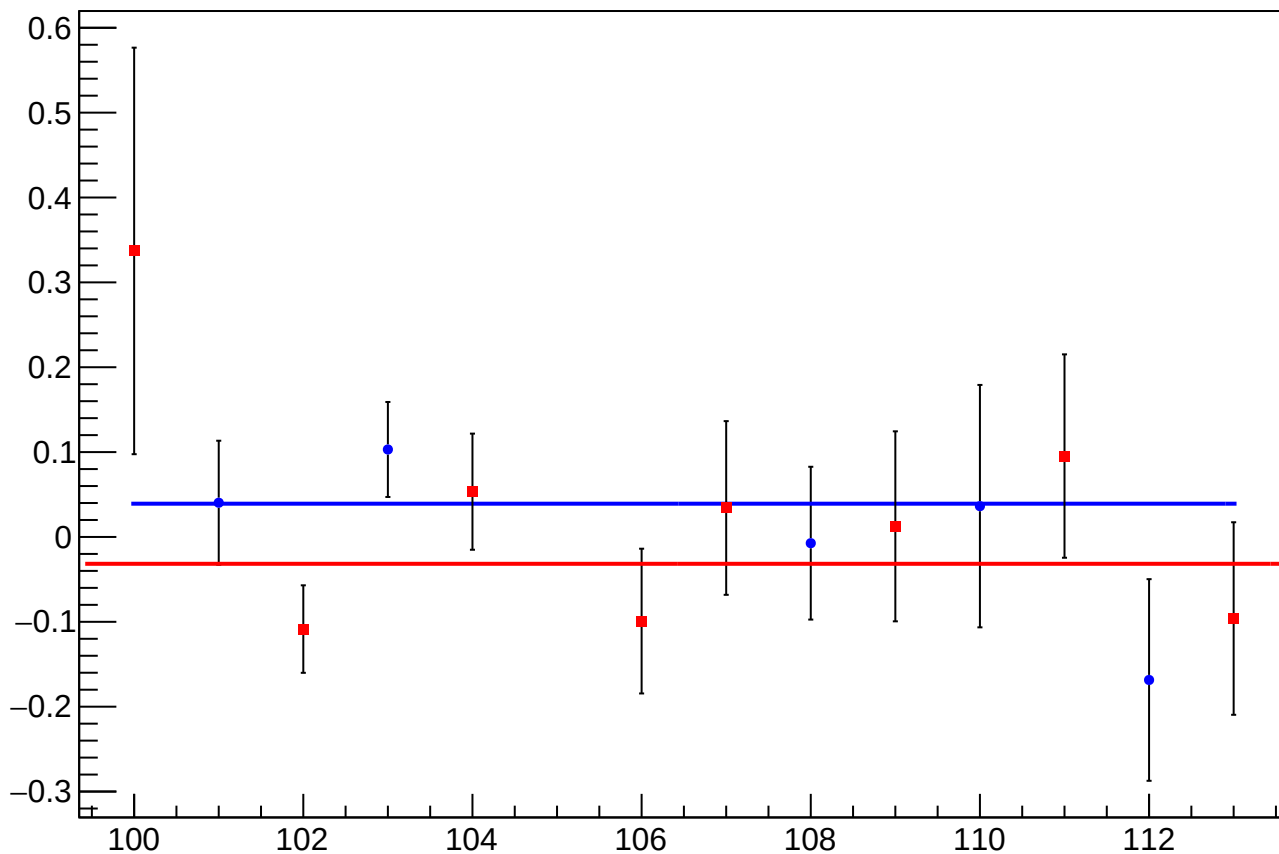
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1404366.4/12

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



asym\_usr\_overload\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.039 $\pm$ 0.037  $\chi^2$ /NDF: 4.6/4

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

Right Out: -0.032 $\pm$ 0.031  $\chi^2$ /NDF: 8.8/7

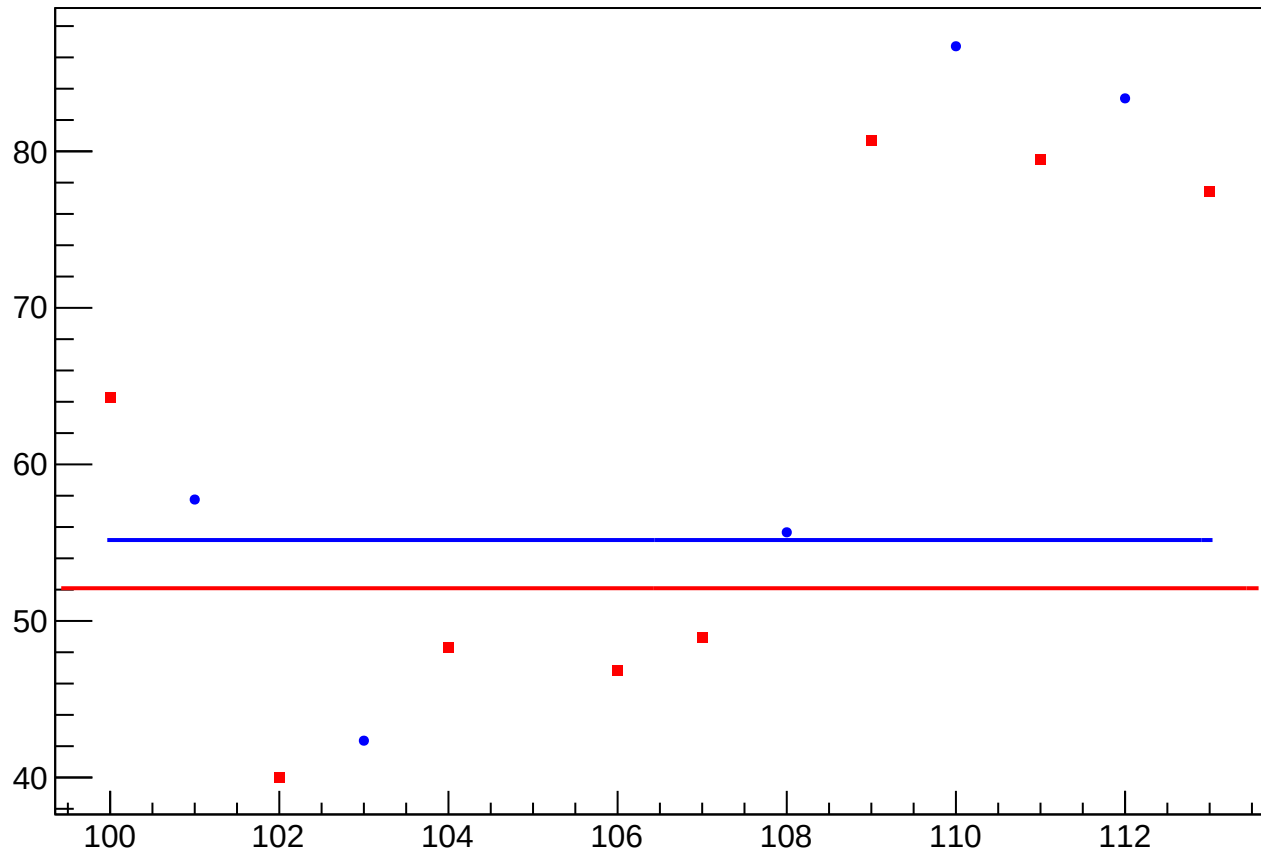
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.002 $\pm$ 0.023  $\chi^2$ /NDF: 15.6/12

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

# asym\_usr\_overload\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 55.169+/-0.026  $\chi^2/\text{NDF}$ : 317763.2/4

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

Right Out: 52.090+/-0.022  $\chi^2/\text{NDF}$ : 465148.0/7

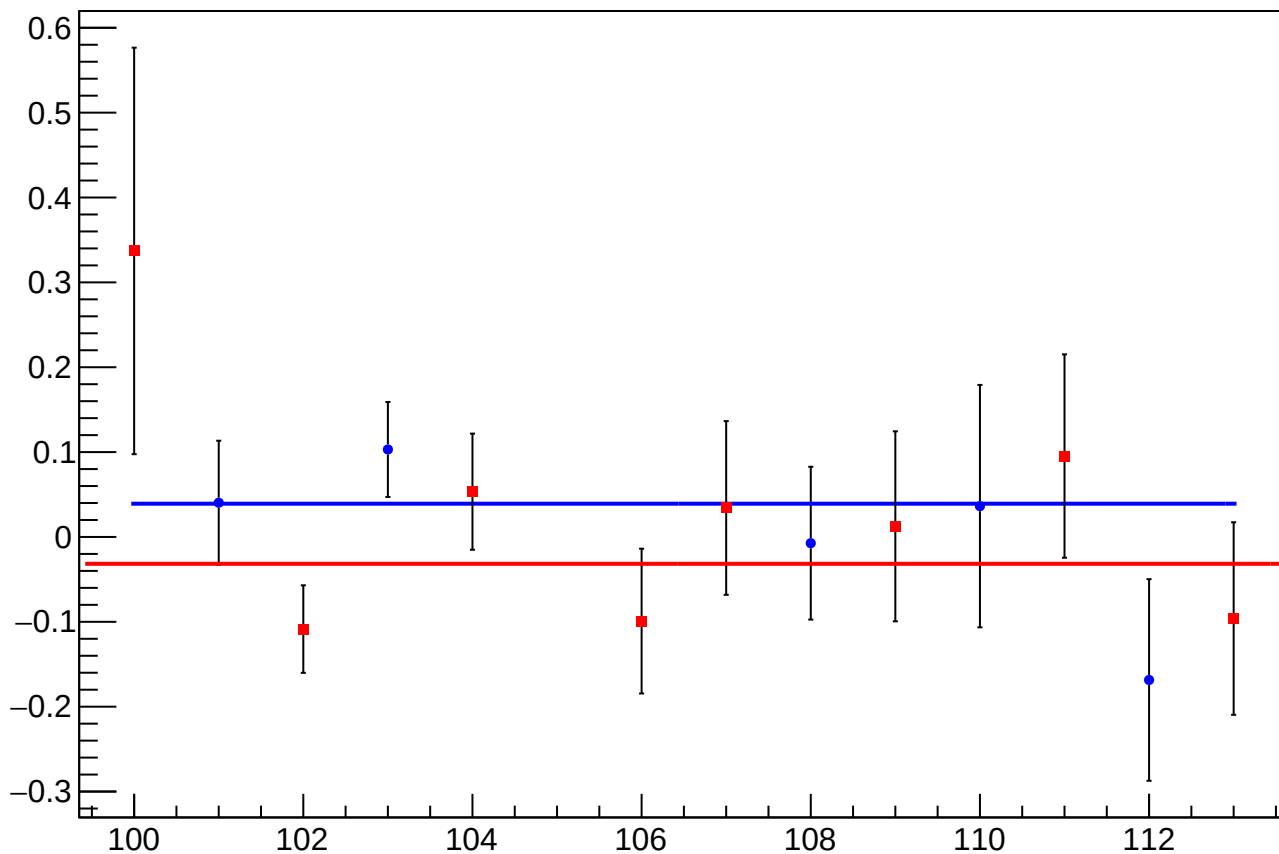
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 53.360+/-0.017  $\chi^2/\text{NDF}$ : 791258.1/12

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

asym\_usr\_overload\_cor\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.039 $\pm$ 0.037  $\chi^2$ /NDF: 4.6/4

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

Right Out: -0.032 $\pm$ 0.031  $\chi^2$ /NDF: 8.8/7

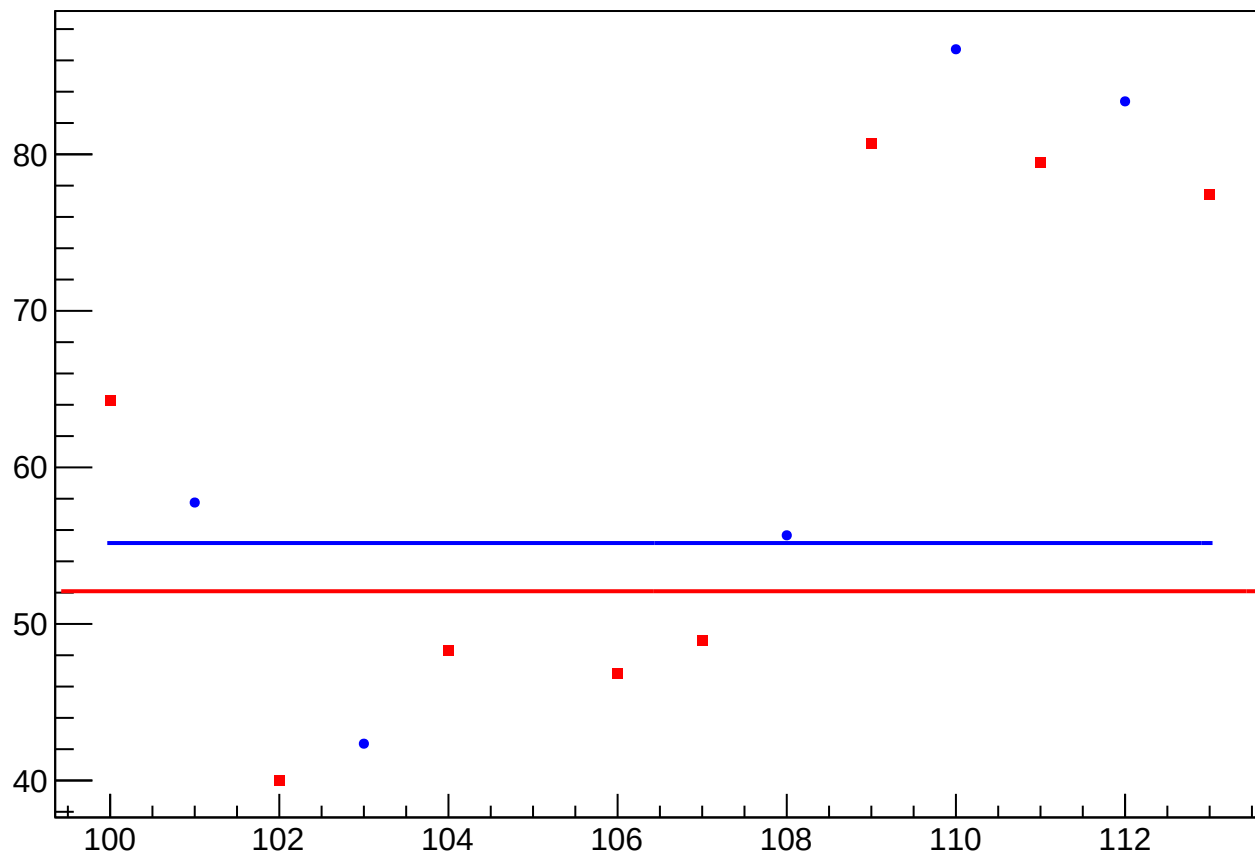
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.002 $\pm$ 0.023  $\chi^2$ /NDF: 15.6/12

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

asym\_usr\_overload\_cor\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 55.169+/-0.026  $\chi^2/\text{NDF}$ : 317763.2/4

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

Right Out: 52.090+/-0.022  $\chi^2/\text{NDF}$ : 465148.0/7

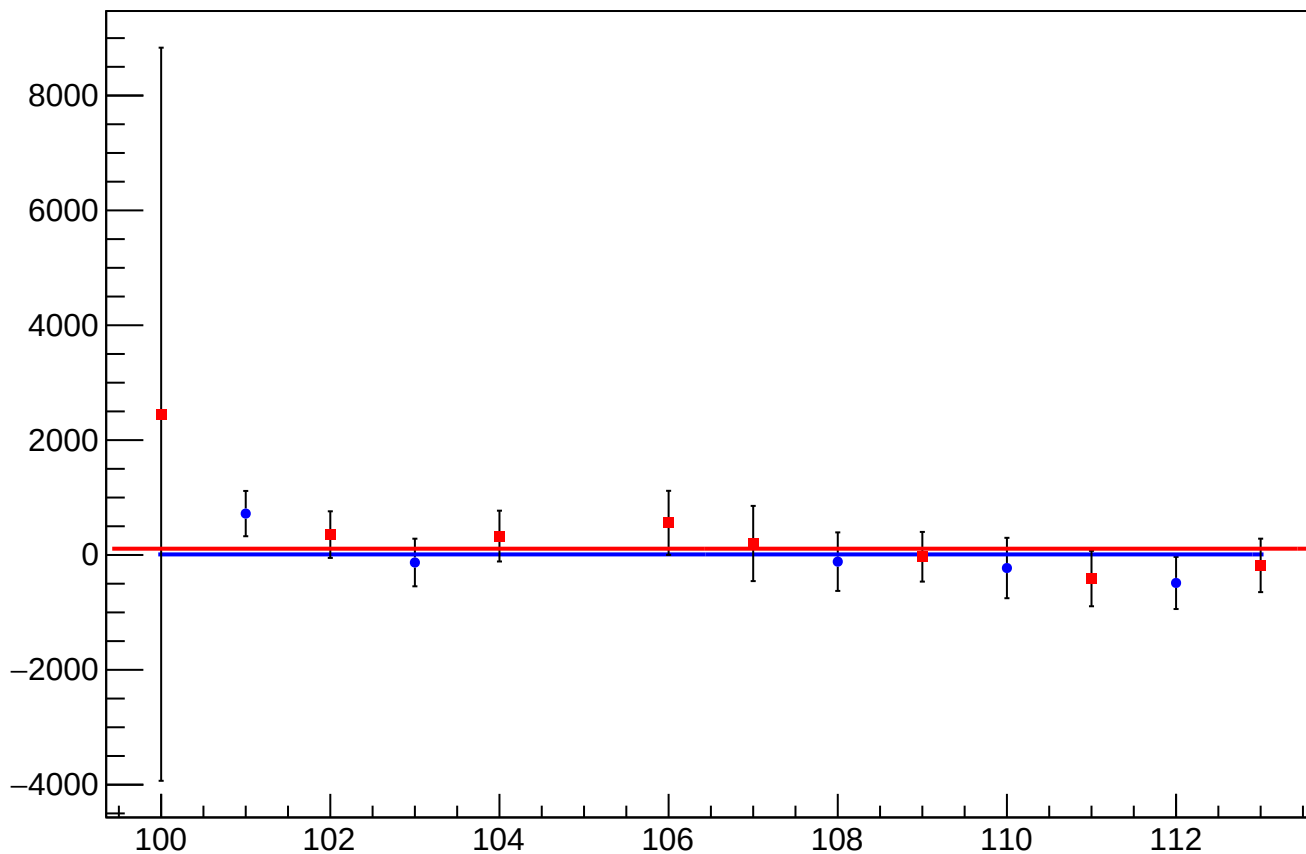
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 53.360+/-0.017  $\chi^2/\text{NDF}$ : 791258.1/12

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

# asym\_dsl\_mean vs Slug



Right In: 9.824+/-201.739  $\chi^2/\text{NDF}$ : 4.8/4

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

Right Out: 109.398+/-179.608  $\chi^2/\text{NDF}$ : 3.1/7

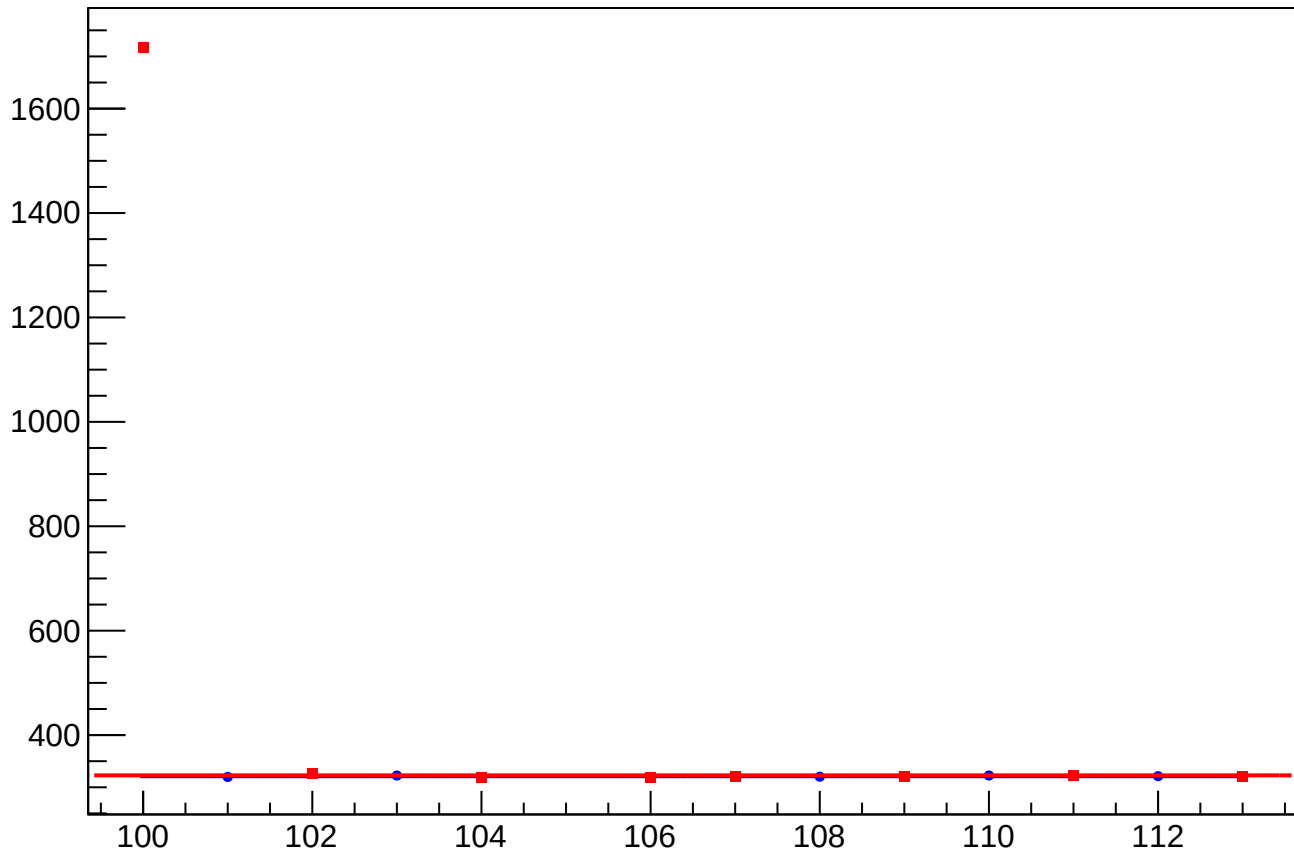
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 65.370+/-134.147  $\chi^2/\text{NDF}$ : 8.0/12

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

# asym\_dsl\_rms vs Slug



Right In: 321.227 $\pm$ 0.143  $\chi^2$ /NDF: 66.3/4

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

Right Out: 322.870 $\pm$ 0.127  $\chi^2$ /NDF: 96185.5/7

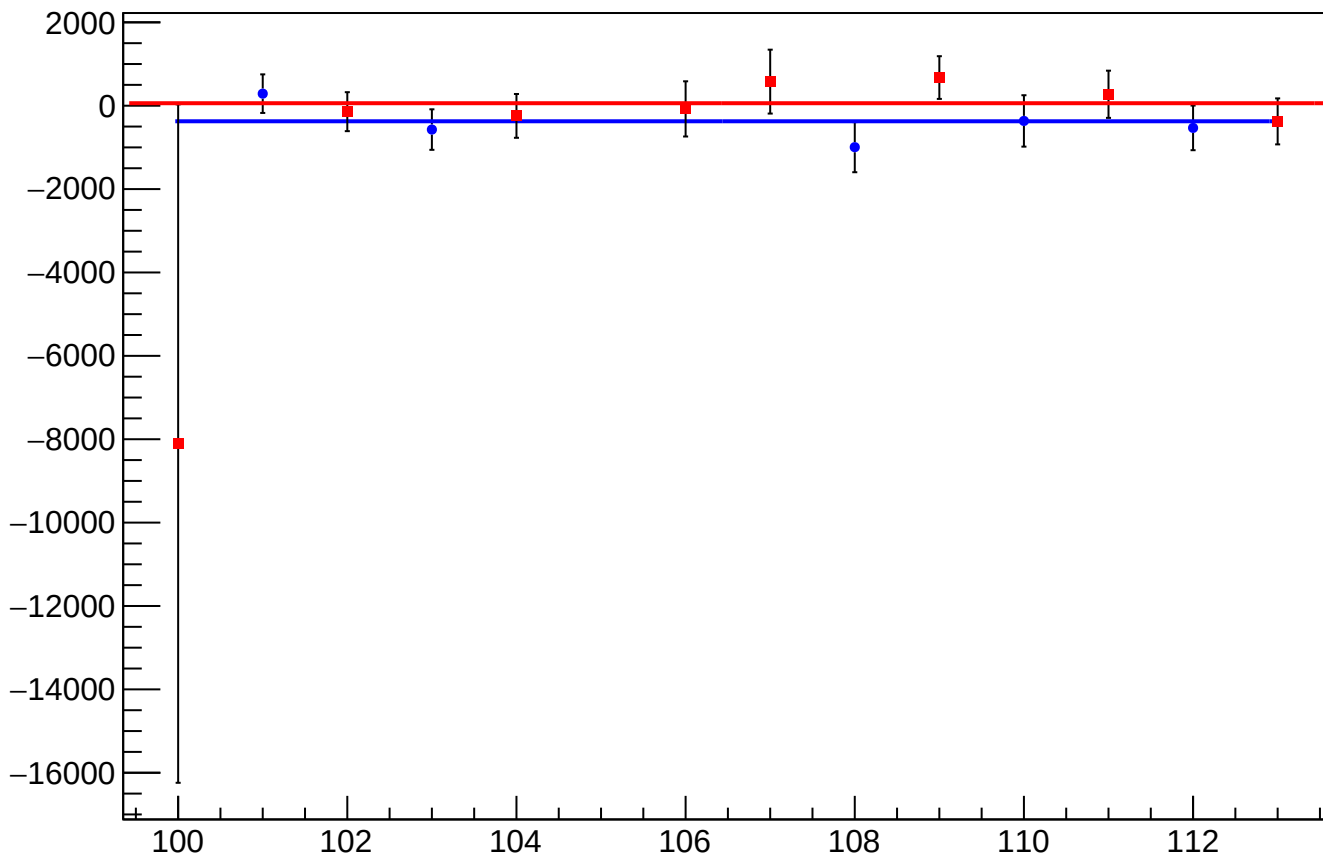
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 322.144 $\pm$ 0.095  $\chi^2$ /NDF: 96325.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_dsr\_mean vs Slug



Right In:  $-373.295 \pm 237.063$   $\chi^2/\text{NDF}$ : 3.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $59.877 \pm 211.214$   $\chi^2/\text{NDF}$ : 4.2/7

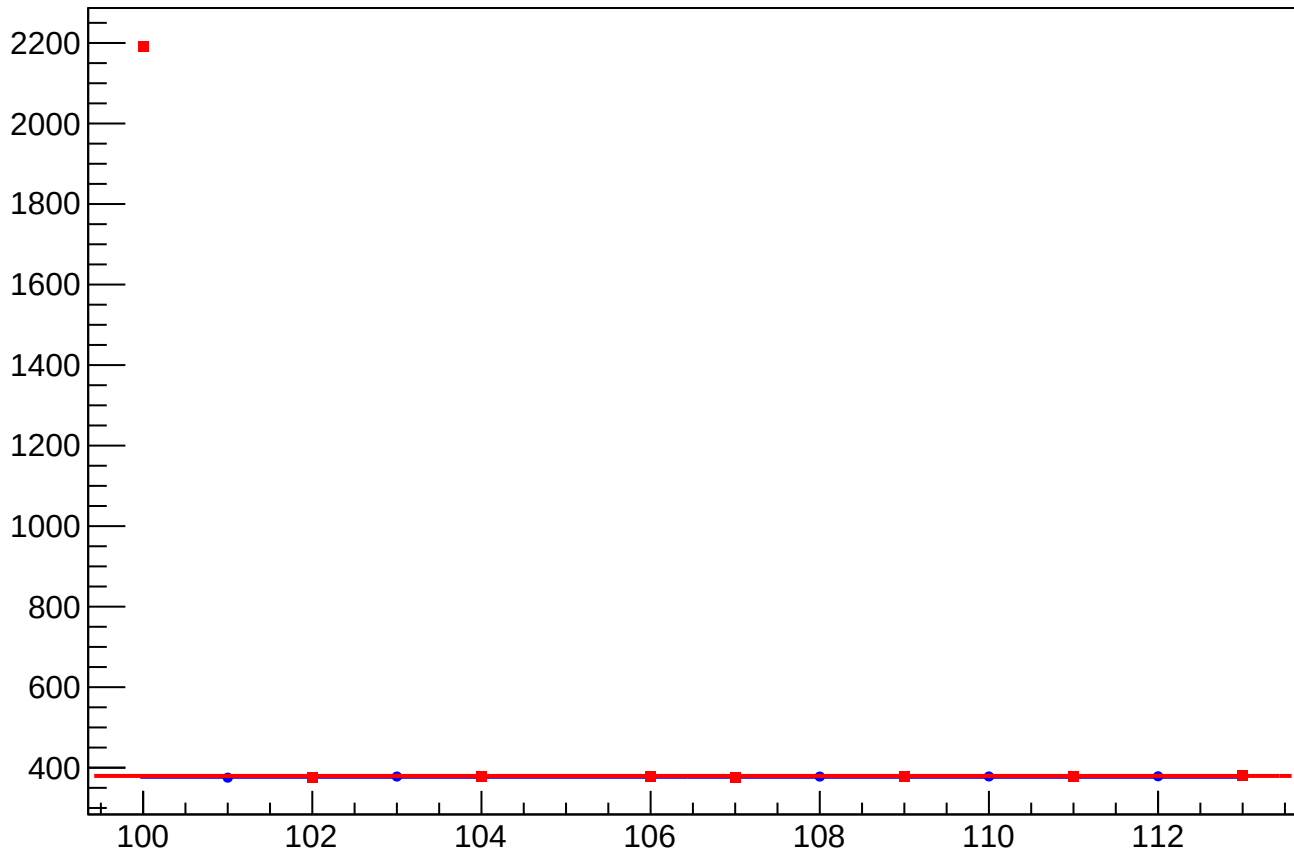
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-131.814 \pm 157.701$   $\chi^2/\text{NDF}$ : 9.5/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_dsr\_rms vs Slug



Right In: 377.452 $\pm$ 0.168  $\chi^2$ /NDF: 62.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 379.586 $\pm$ 0.149  $\chi^2$ /NDF: 99167.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

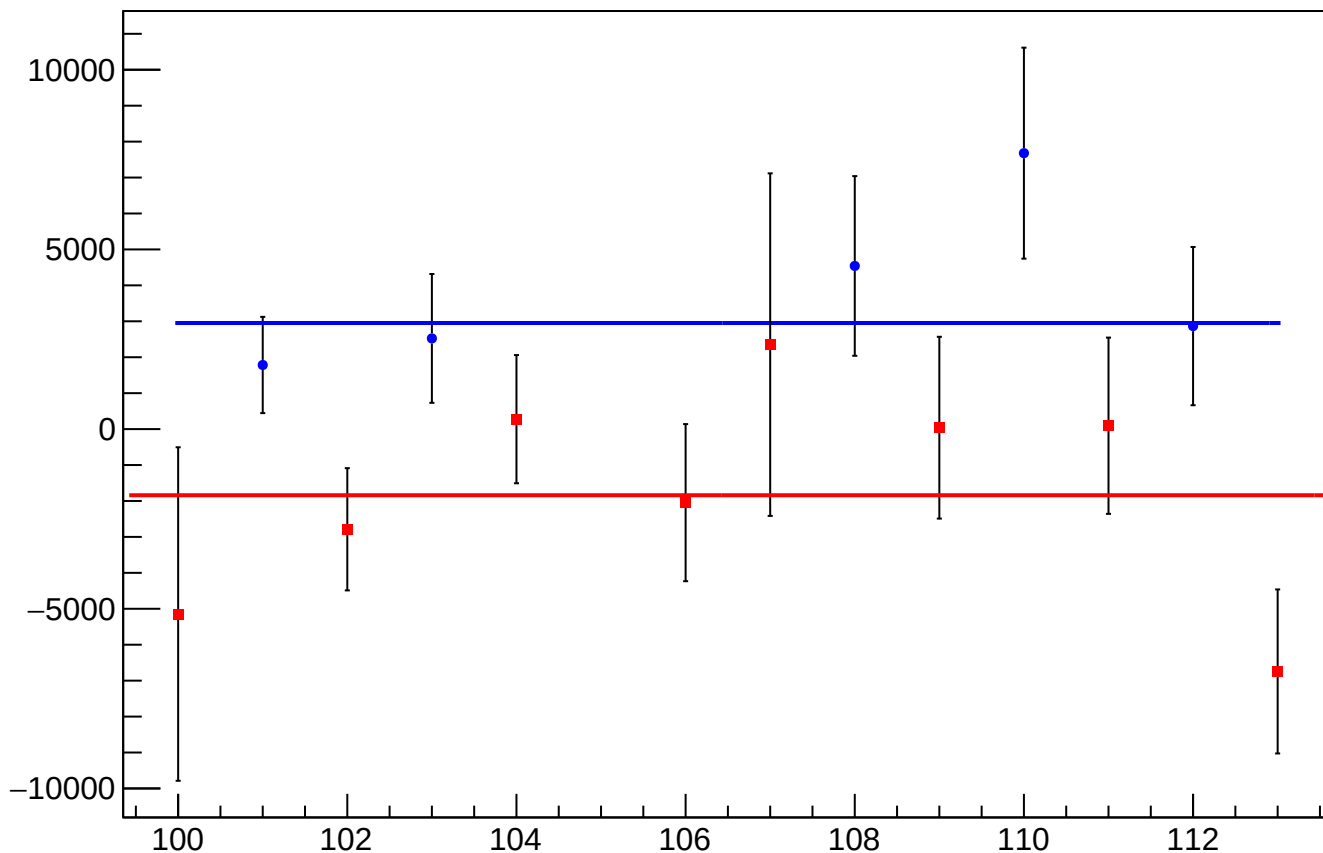
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 378.642 $\pm$ 0.112  $\chi^2$ /NDF: 99320.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_us\_agg\_avg\_mean vs Slug



Right In: 2952.469+/-860.326  $\chi^2/\text{NDF}$ : 3.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1840.483+/-823.634  $\chi^2/\text{NDF}$ : 8.8/7

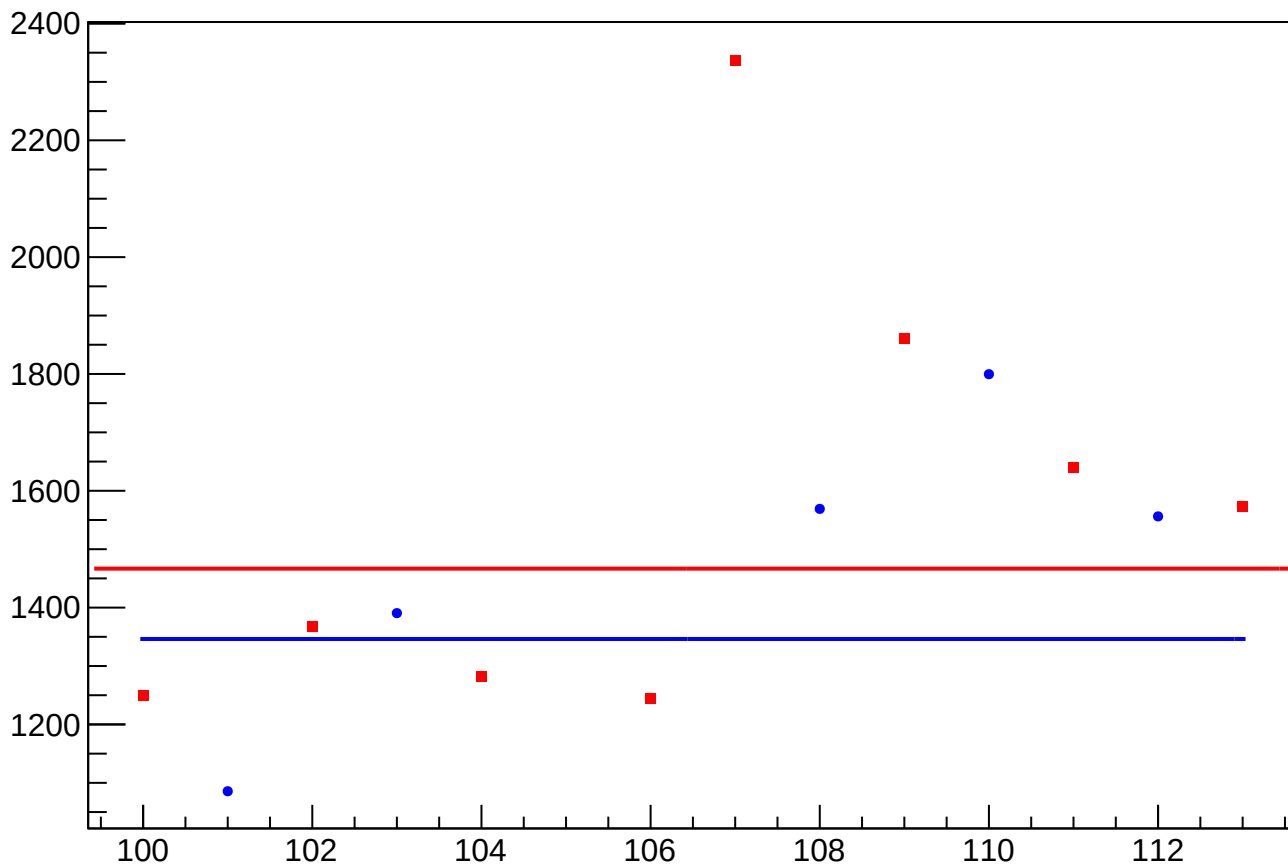
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 451.610+/-594.946  $\chi^2/\text{NDF}$ : 28.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_agg\_avg\_rms vs Slug



Right In: 1346.284+/-0.608  $\chi^2/\text{NDF}$ : 158722.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1466.737+/-0.582  $\chi^2/\text{NDF}$ : 182624.0/7

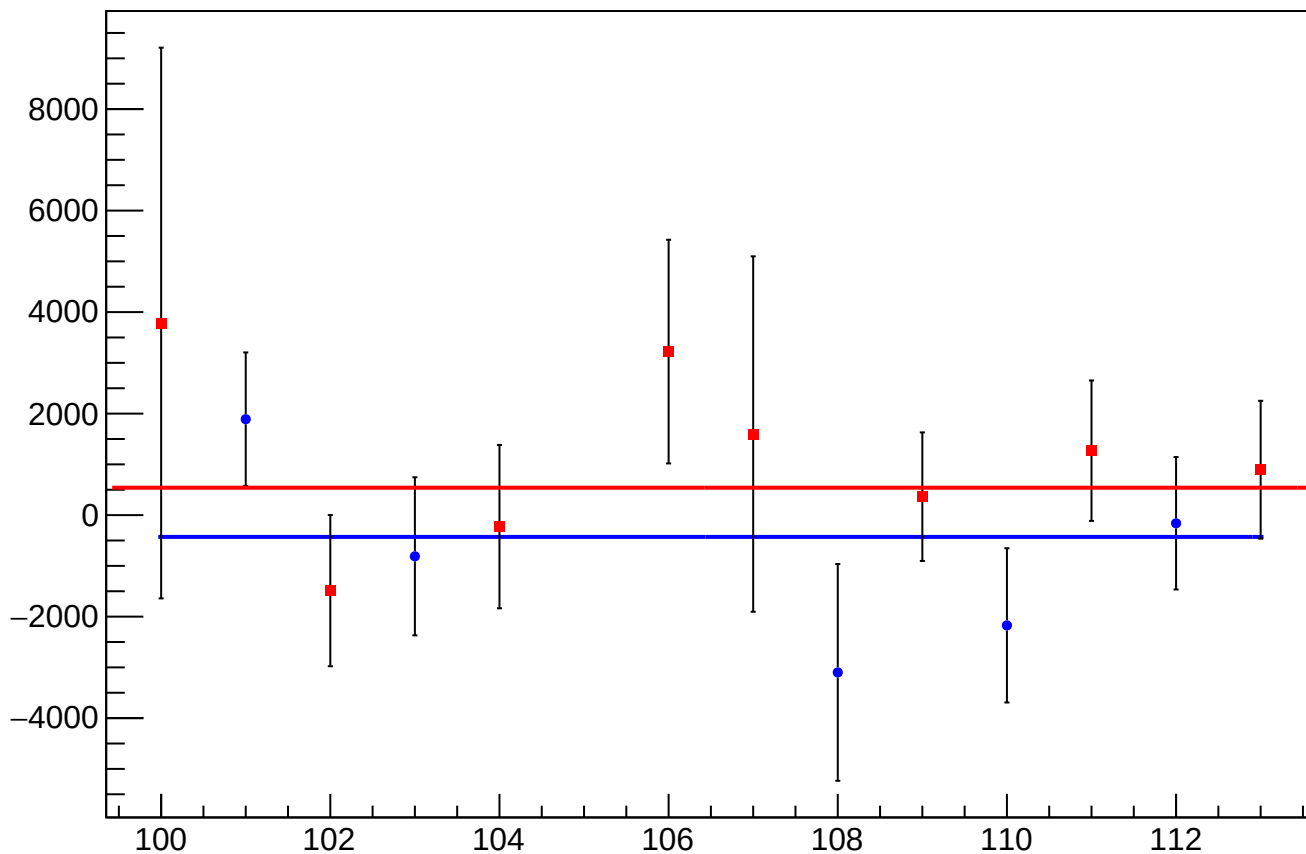
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1409.134+/-0.421  $\chi^2/\text{NDF}$ : 361802.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_agg\_dd\_mean vs Slug



Right In: -429.254+/-669.650  $\chi^2/\text{NDF}$ : 6.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 540.630+/-592.678  $\chi^2/\text{NDF}$ : 4.4/7

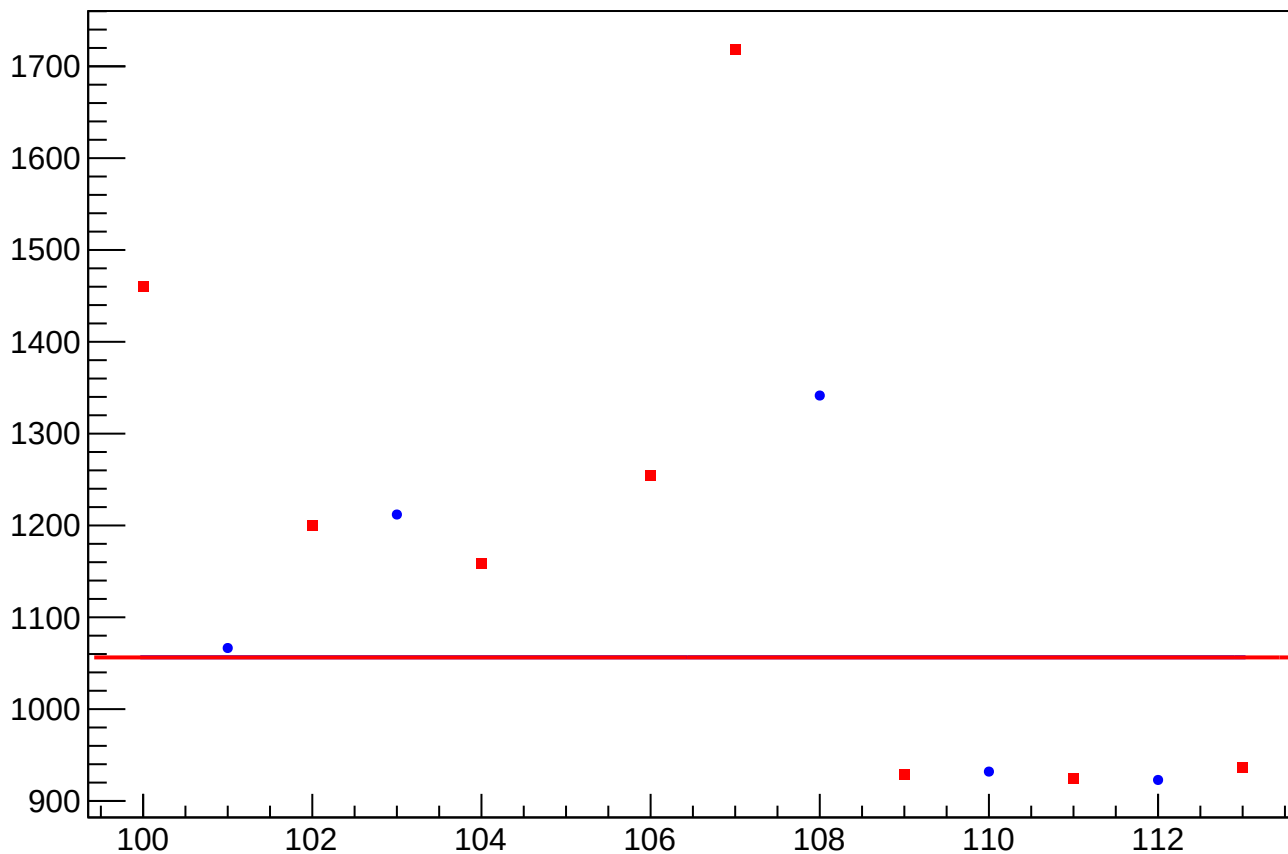
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 114.609+/-443.817  $\chi^2/\text{NDF}$ : 11.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_agg\_dd\_rms vs Slug



Right In: 1056.452 $\pm$ 0.474  $\chi^2$ /NDF: 90072.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1056.305 $\pm$ 0.419  $\chi^2$ /NDF: 179149.3/7

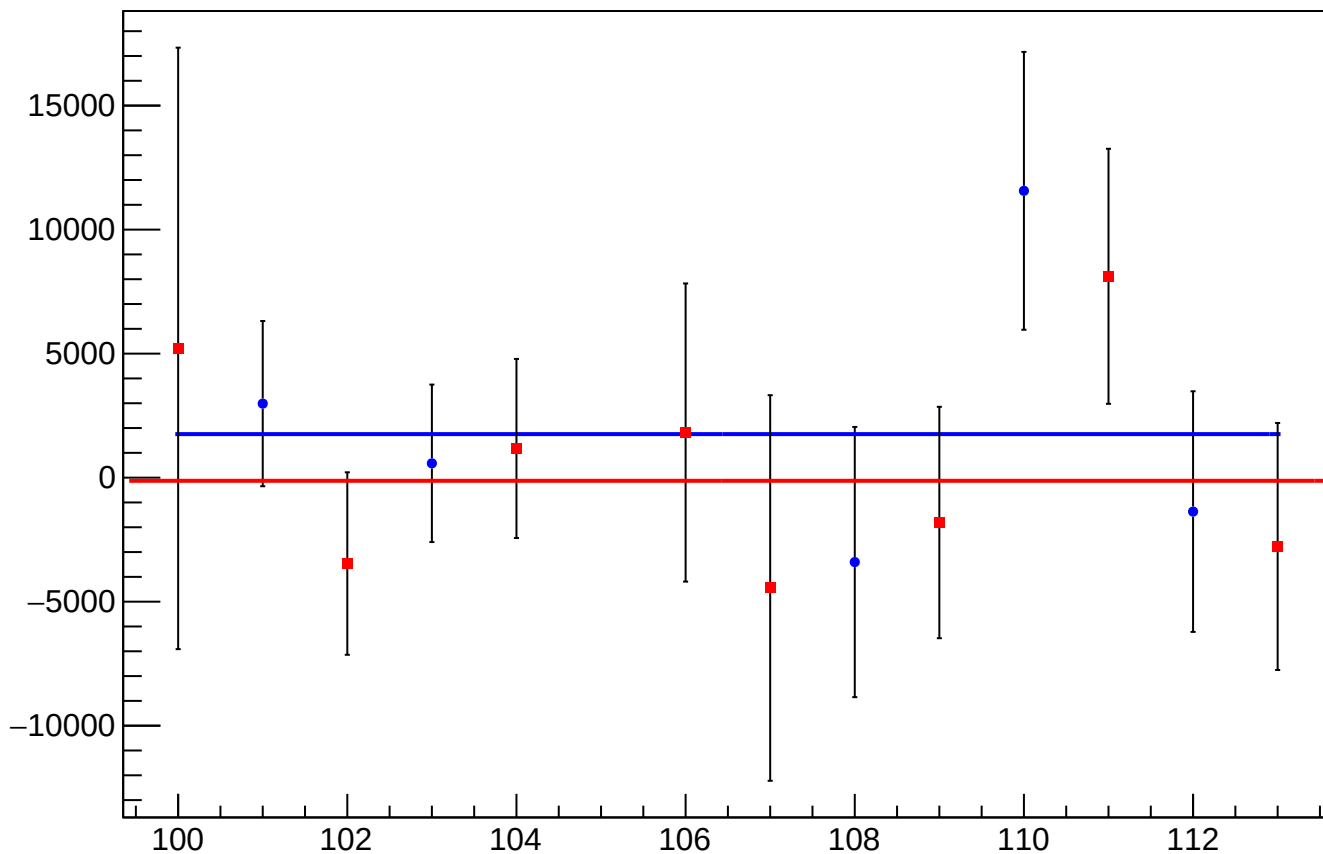
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1056.369 $\pm$ 0.314  $\chi^2$ /NDF: 269221.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1\_mean vs Slug



Right In: 1755.403+/-1833.405  $\chi^2/\text{NDF}$ : 4.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -126.868+/-1751.928  $\chi^2/\text{NDF}$ : 4.5/7

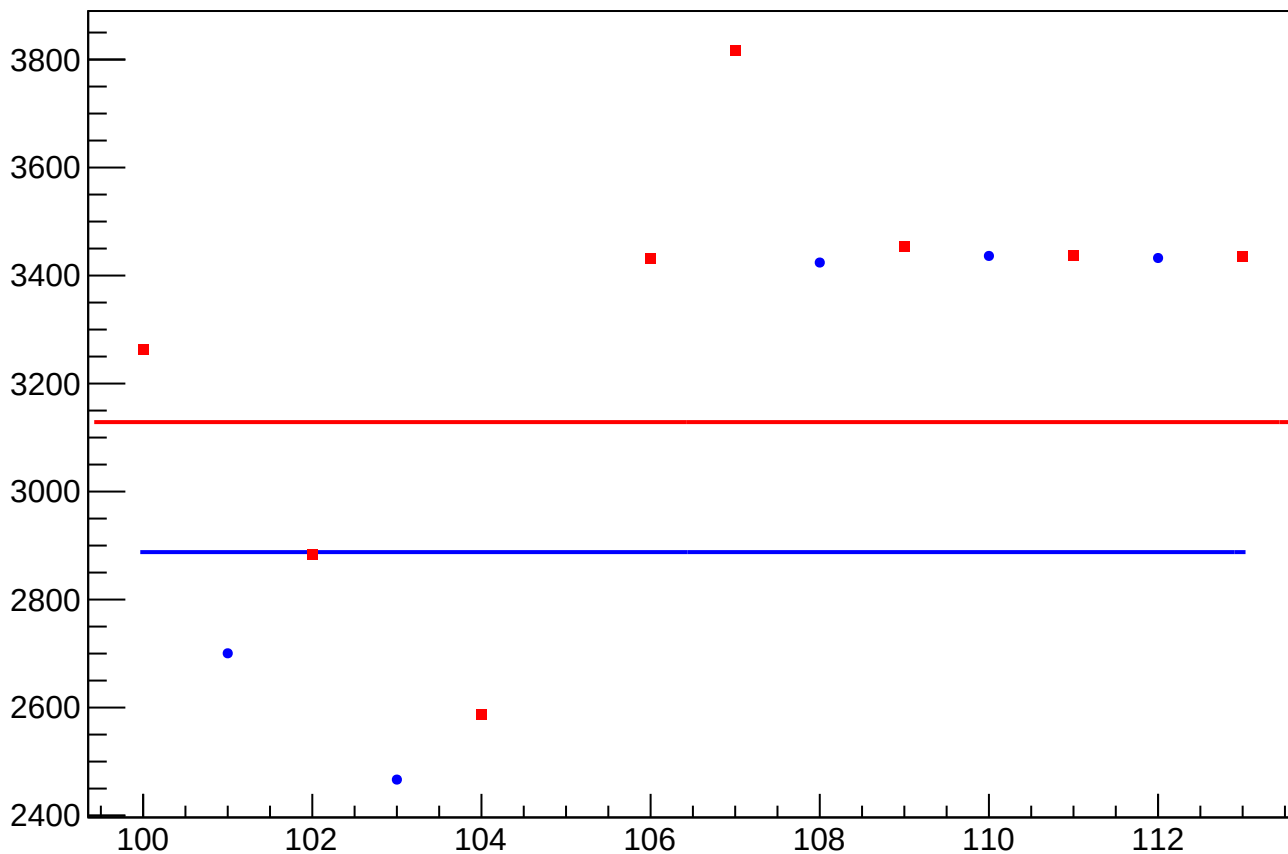
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 771.515+/-1266.625  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_rms vs Slug



Right In: 2887.880+/-1.296  $\chi^2/\text{NDF}$ : 105326.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3128.622+/-1.239  $\chi^2/\text{NDF}$ : 99246.1/7

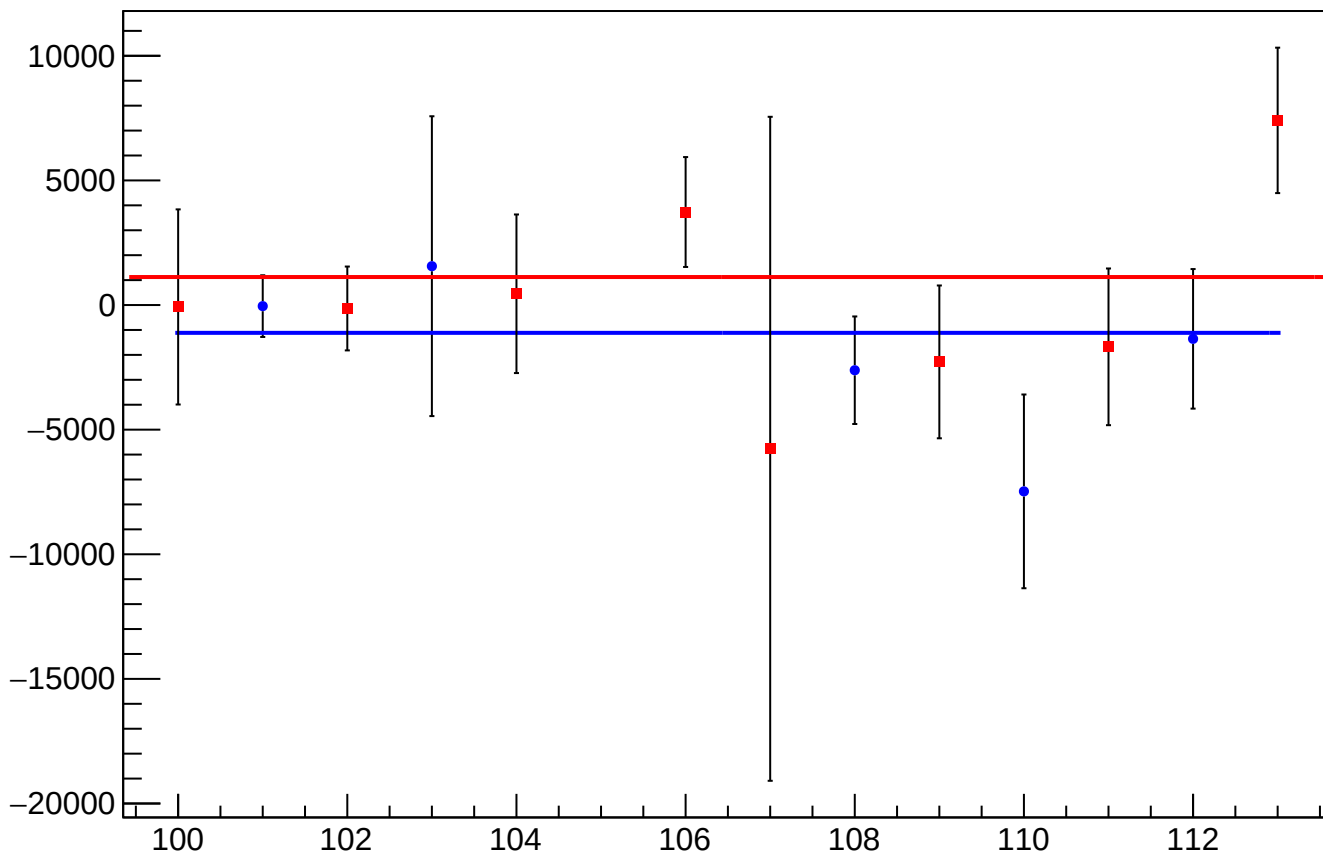
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3013.719+/-0.896  $\chi^2/\text{NDF}$ : 222597.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_reg\_correction\_mean vs Slug



Right In: -1115.478 $\pm$ 958.154  $\chi^2$ /NDF: 4.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1123.807 $\pm$ 974.146  $\chi^2$ /NDF: 9.0/7

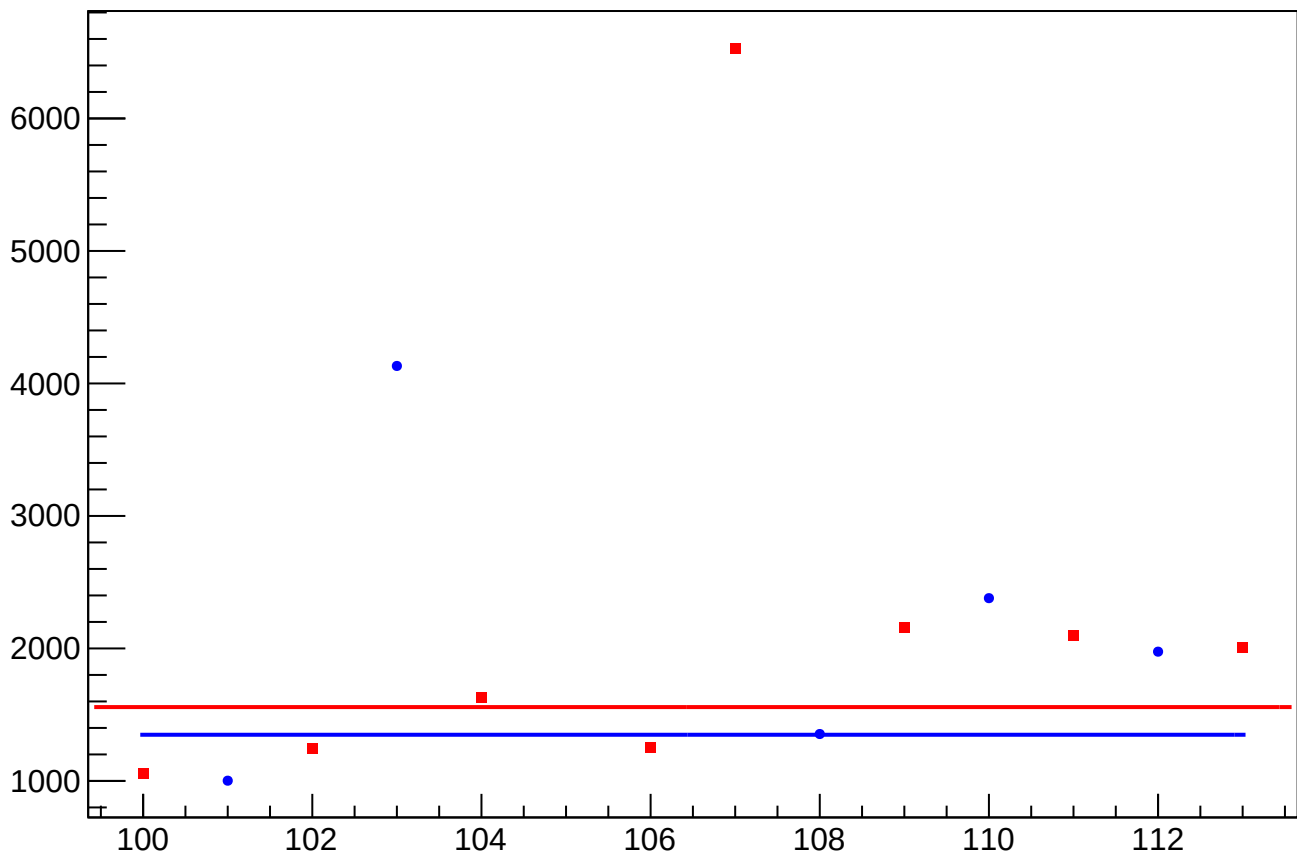
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.367 $\pm$ 683.101  $\chi^2$ /NDF: 15.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_reg\_correction\_rms vs Slug



Right In: 1348.554 $\pm$ 0.678  $\chi^2$ /NDF: 826273.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1557.417 $\pm$ 0.689  $\chi^2$ /NDF: 605184.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

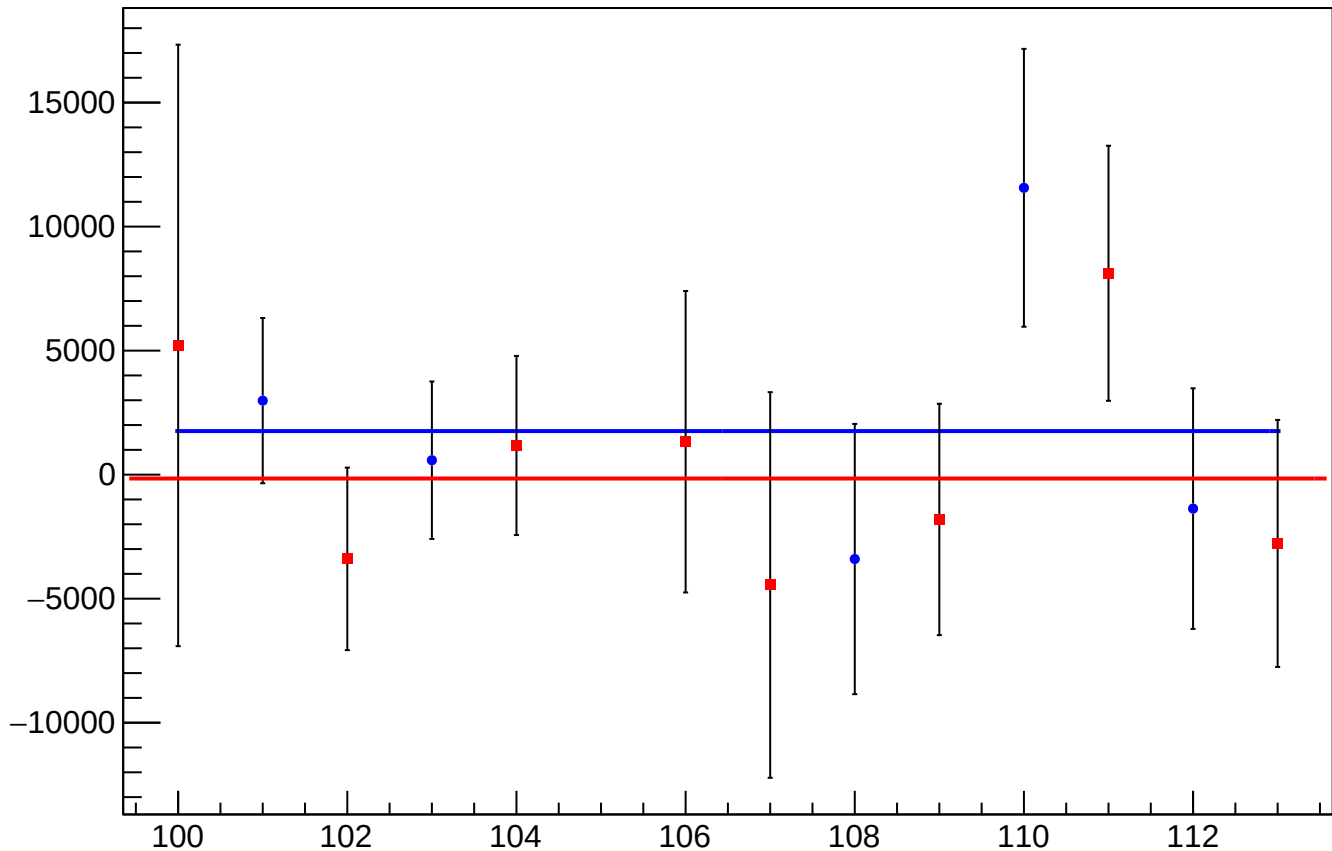
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1451.257 $\pm$ 0.483  $\chi^2$ /NDF: 1478188.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# cor\_asym\_atl1\_mean vs Slug



Right In: 1756.816+/-1833.405  $\chi^2/\text{NDF}$ : 4.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -155.360+/-1753.621  $\chi^2/\text{NDF}$ : 4.5/7

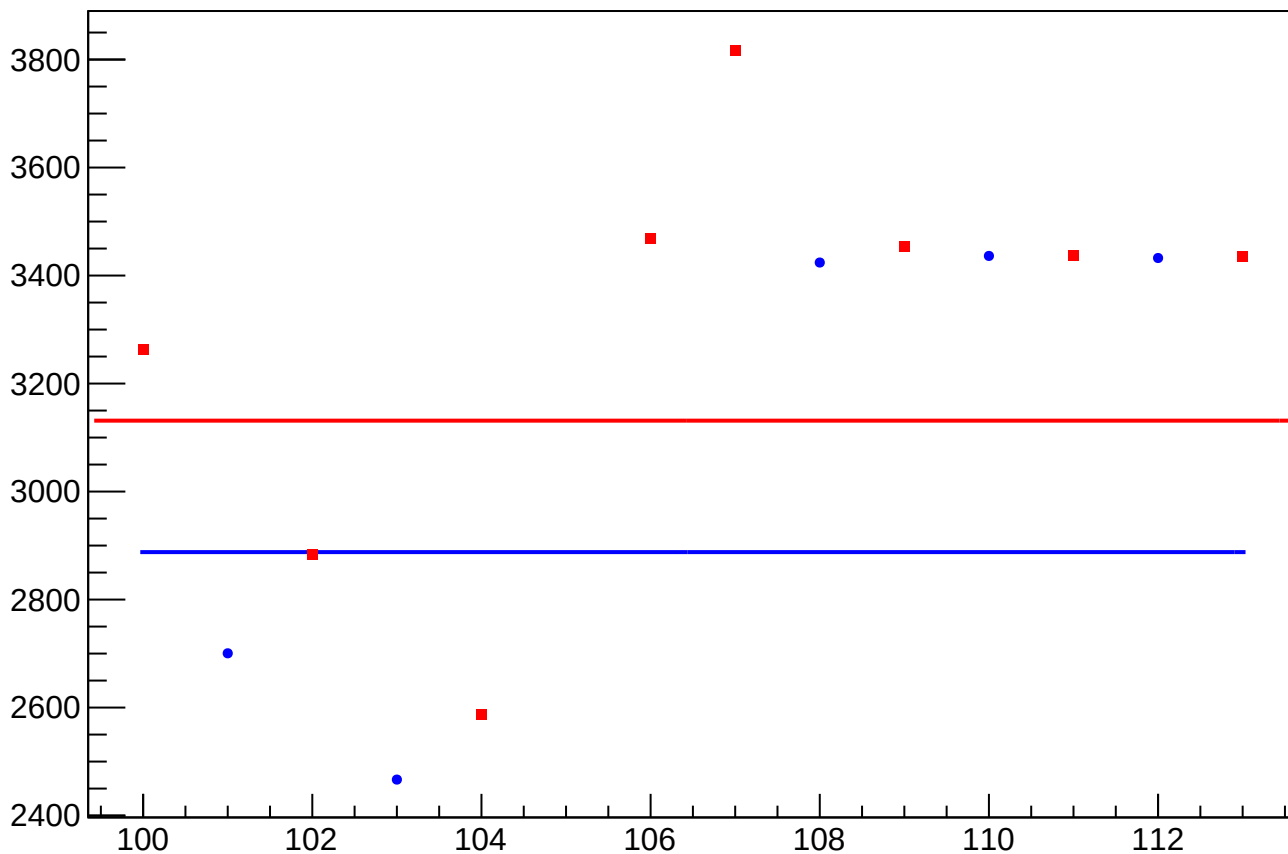
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 758.217+/-1267.264  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl1\_rms vs Slug



Right In: 2887.881+/-1.296  $\chi^2/\text{NDF}$ : 105326.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3131.317+/-1.240  $\chi^2/\text{NDF}$ : 100423.6/7

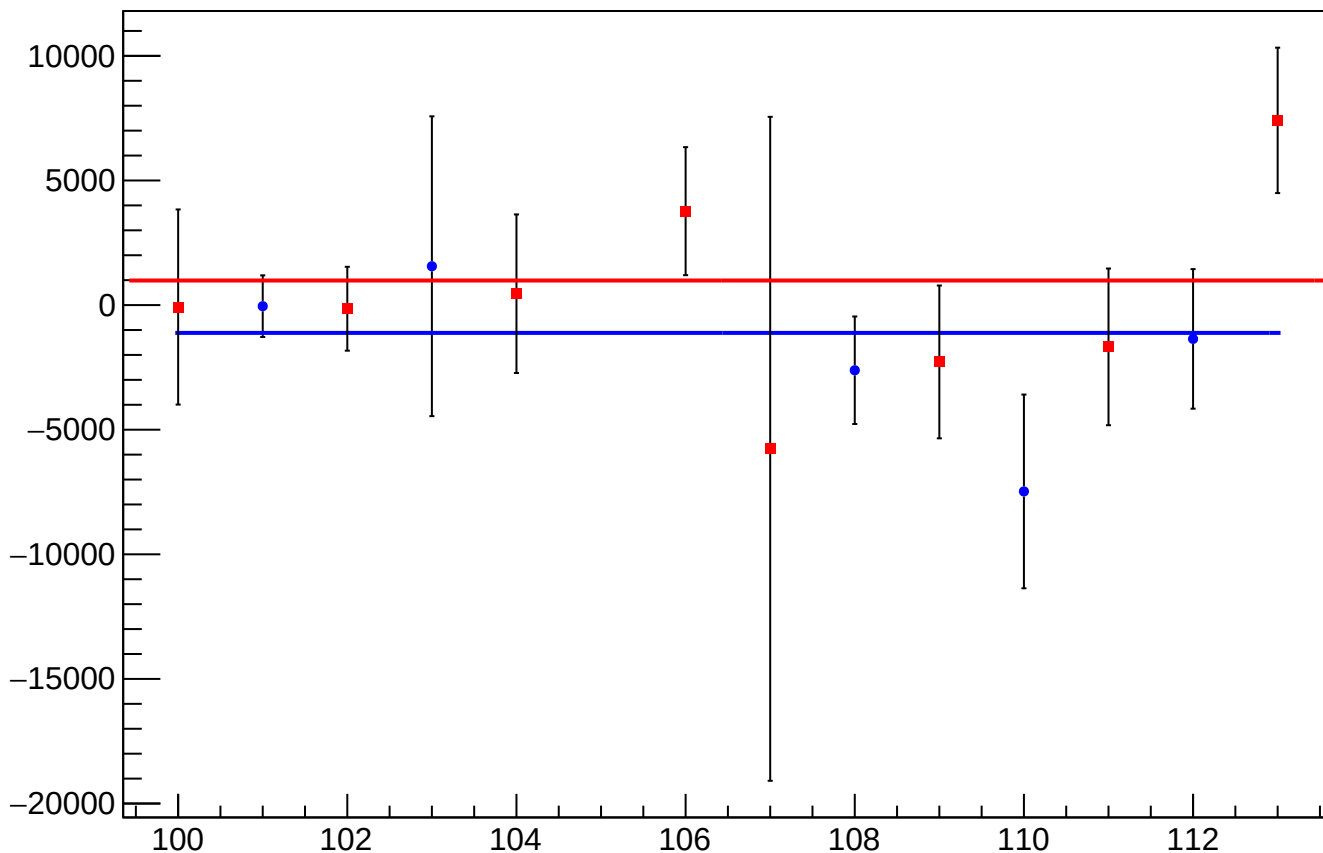
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3015.011+/-0.896  $\chi^2/\text{NDF}$ : 224163.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_cor\_correction\_mean vs Slug



Right In: -1115.470+/-958.146  $\chi^2/\text{NDF}$ : 4.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 985.903+/-1000.188  $\chi^2/\text{NDF}$ : 8.7/7

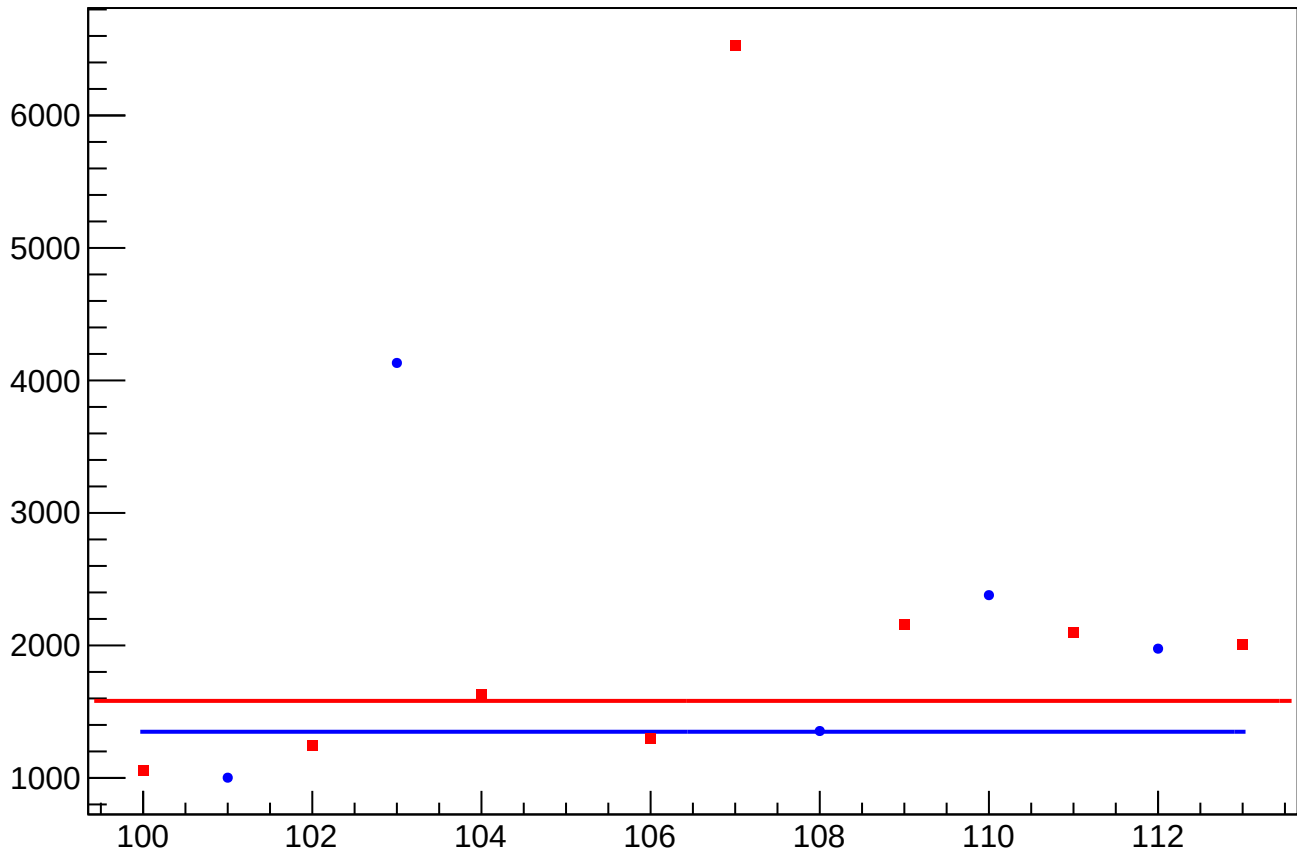
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -109.875+/-691.897  $\chi^2/\text{NDF}$ : 15.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_cor\_correction\_rms vs Slug



Right In: 1348.535+/-0.678  $\chi^2/\text{NDF}$ : 826280.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1581.484+/-0.707  $\chi^2/\text{NDF}$ : 585438.1/7

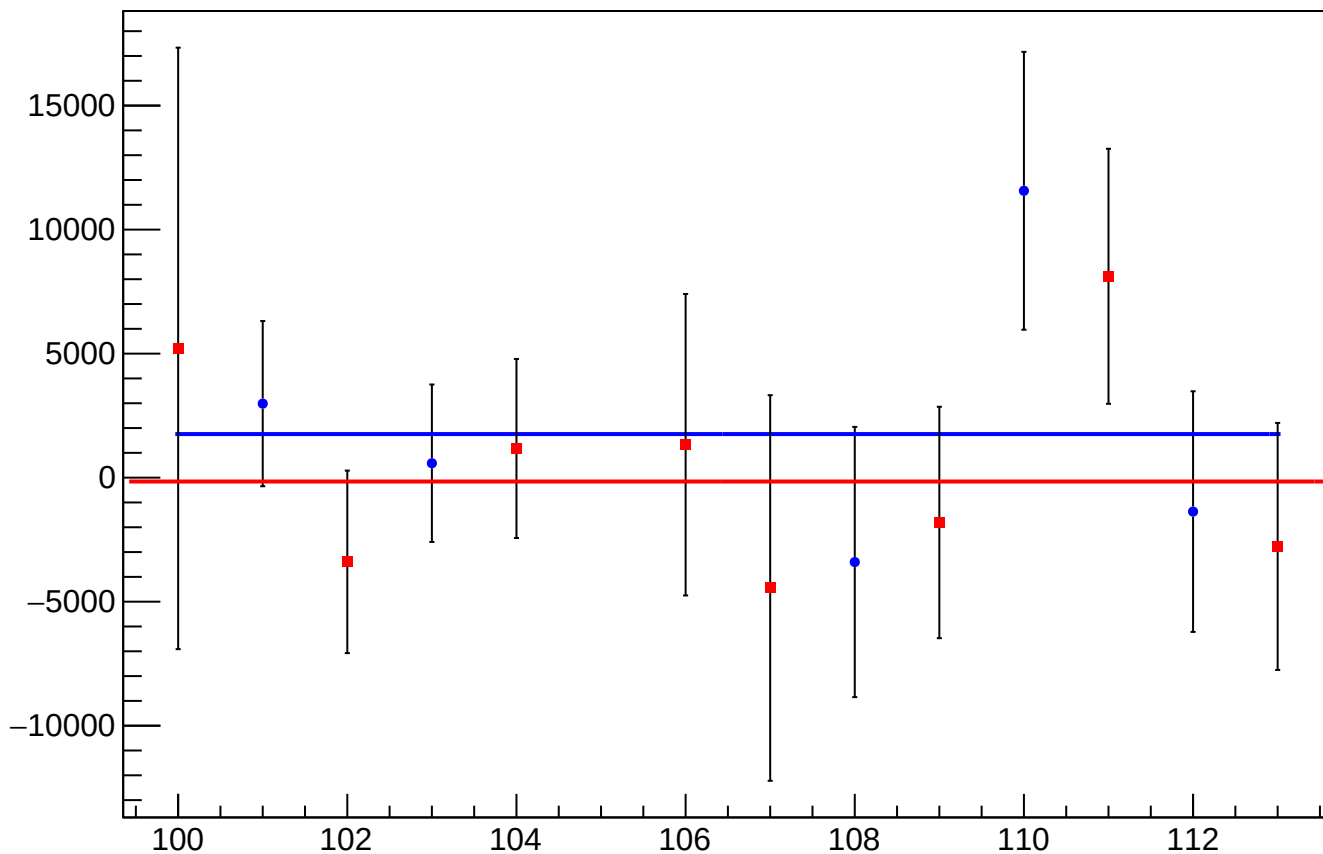
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1460.011+/-0.489  $\chi^2/\text{NDF}$ : 1468291.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl1\_mean vs Slug



Right In: 1756.816 $\pm$ 1833.405  $\chi^2$ /NDF: 4.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -155.360 $\pm$ 1753.621  $\chi^2$ /NDF: 4.5/7

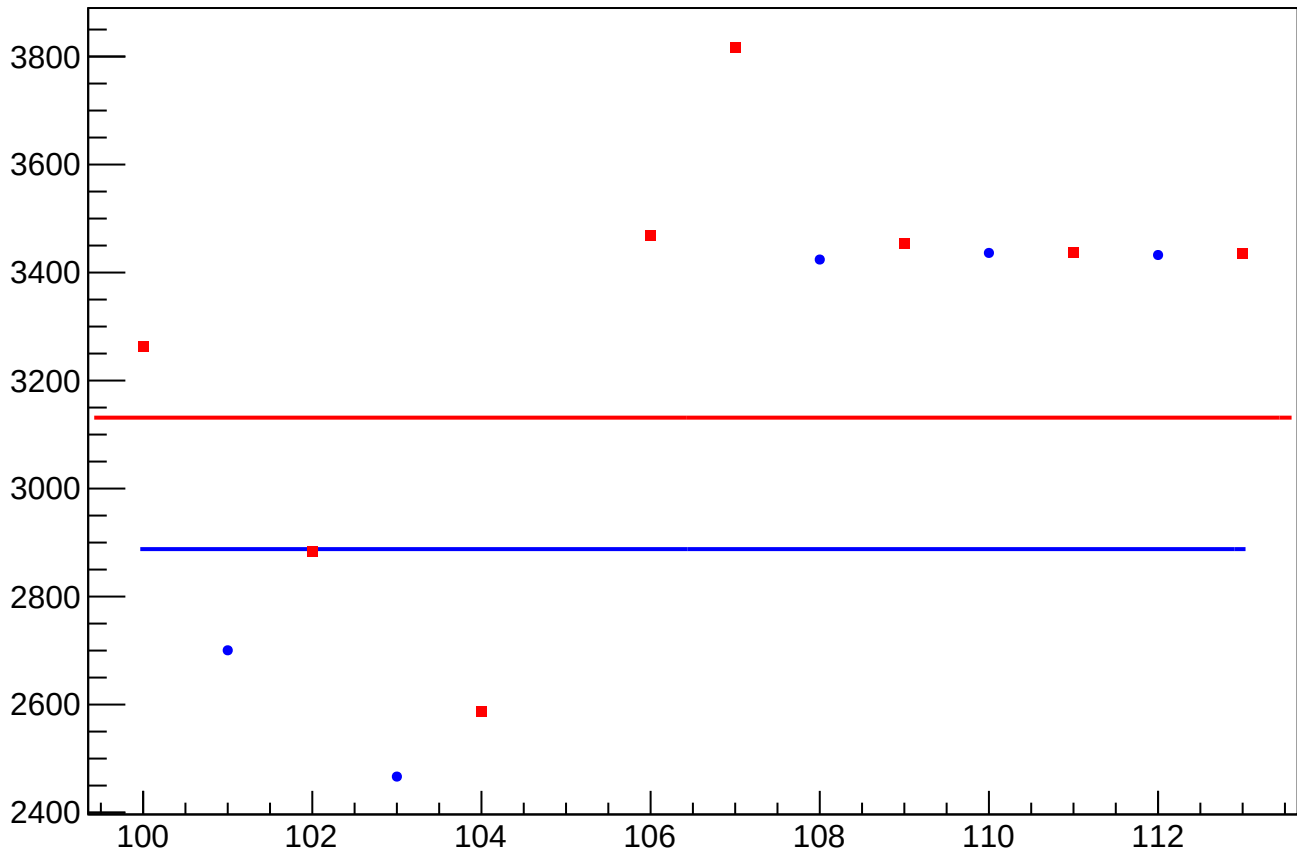
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 758.217 $\pm$ 1267.264  $\chi^2$ /NDF: 9.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atl1\_rms vs Slug



Right In: 2887.881+/-1.296  $\chi^2/\text{NDF}$ : 105326.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3131.317+/-1.240  $\chi^2/\text{NDF}$ : 100423.6/7

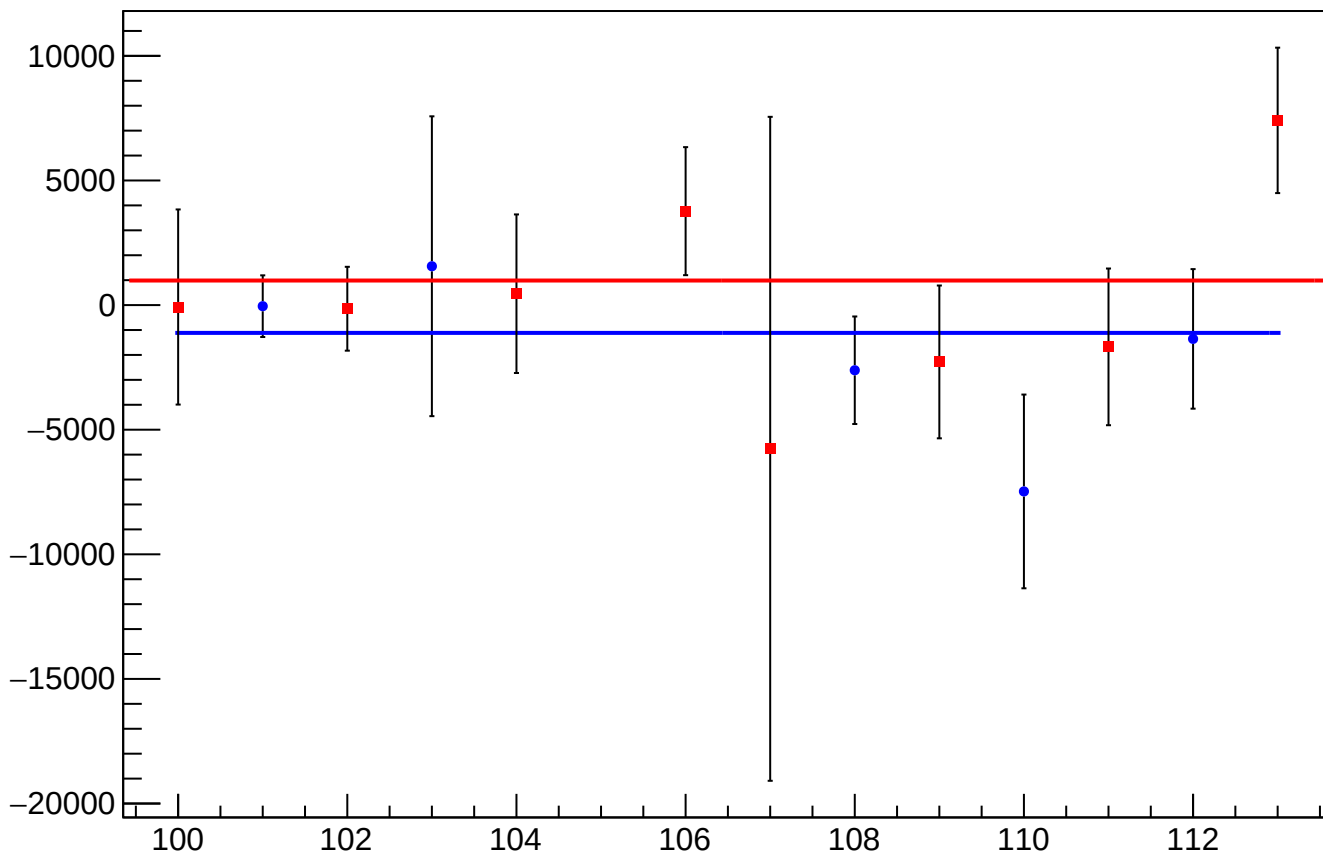
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3015.011+/-0.896  $\chi^2/\text{NDF}$ : 224163.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_cor\_correction\_mean vs Slug



Right In: -1115.470+/-958.146  $\chi^2/\text{NDF}$ : 4.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 985.903+/-1000.188  $\chi^2/\text{NDF}$ : 8.7/7

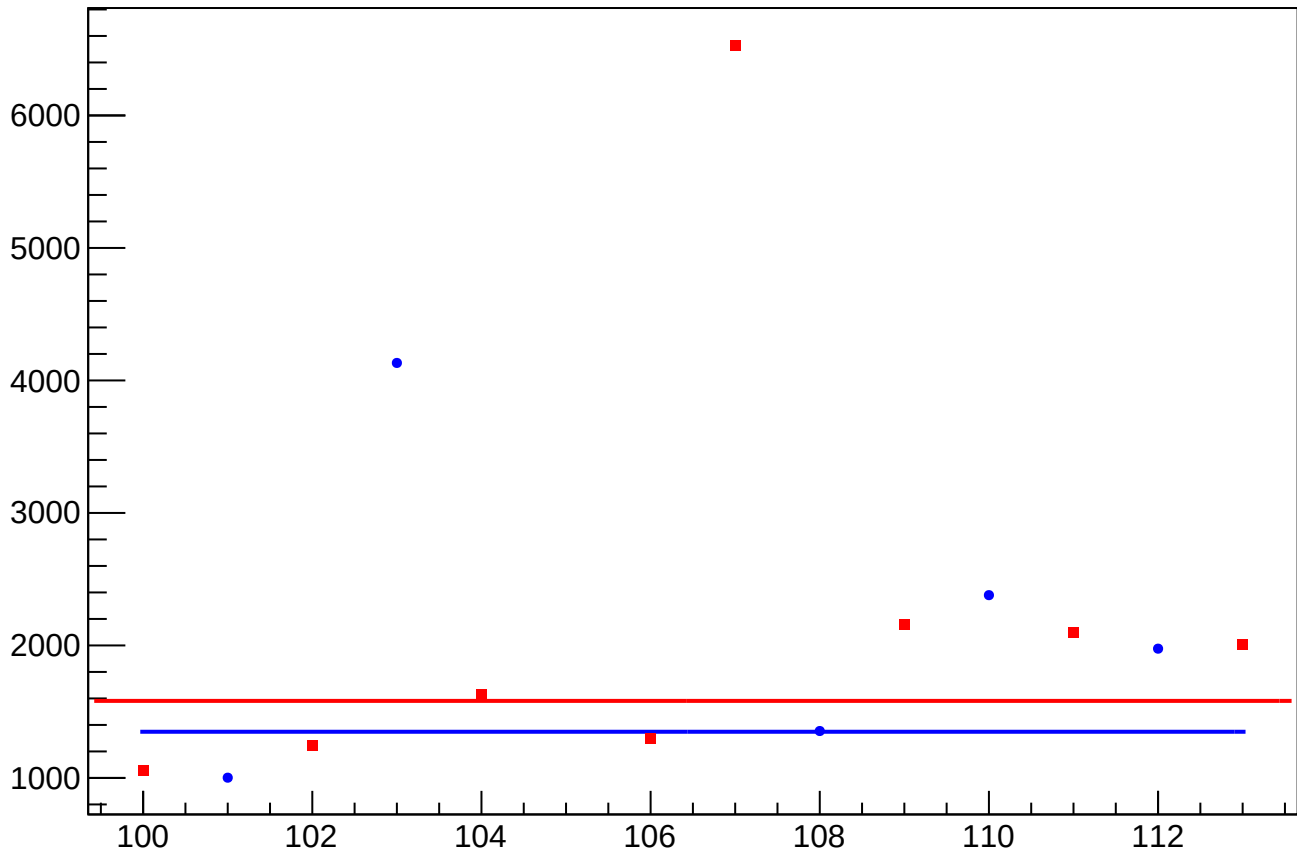
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -109.875+/-691.897  $\chi^2/\text{NDF}$ : 15.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_cor\_correction\_rms vs Slug



Right In: 1348.535+/-0.678  $\chi^2/\text{NDF}$ : 826280.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1581.484+/-0.707  $\chi^2/\text{NDF}$ : 585438.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

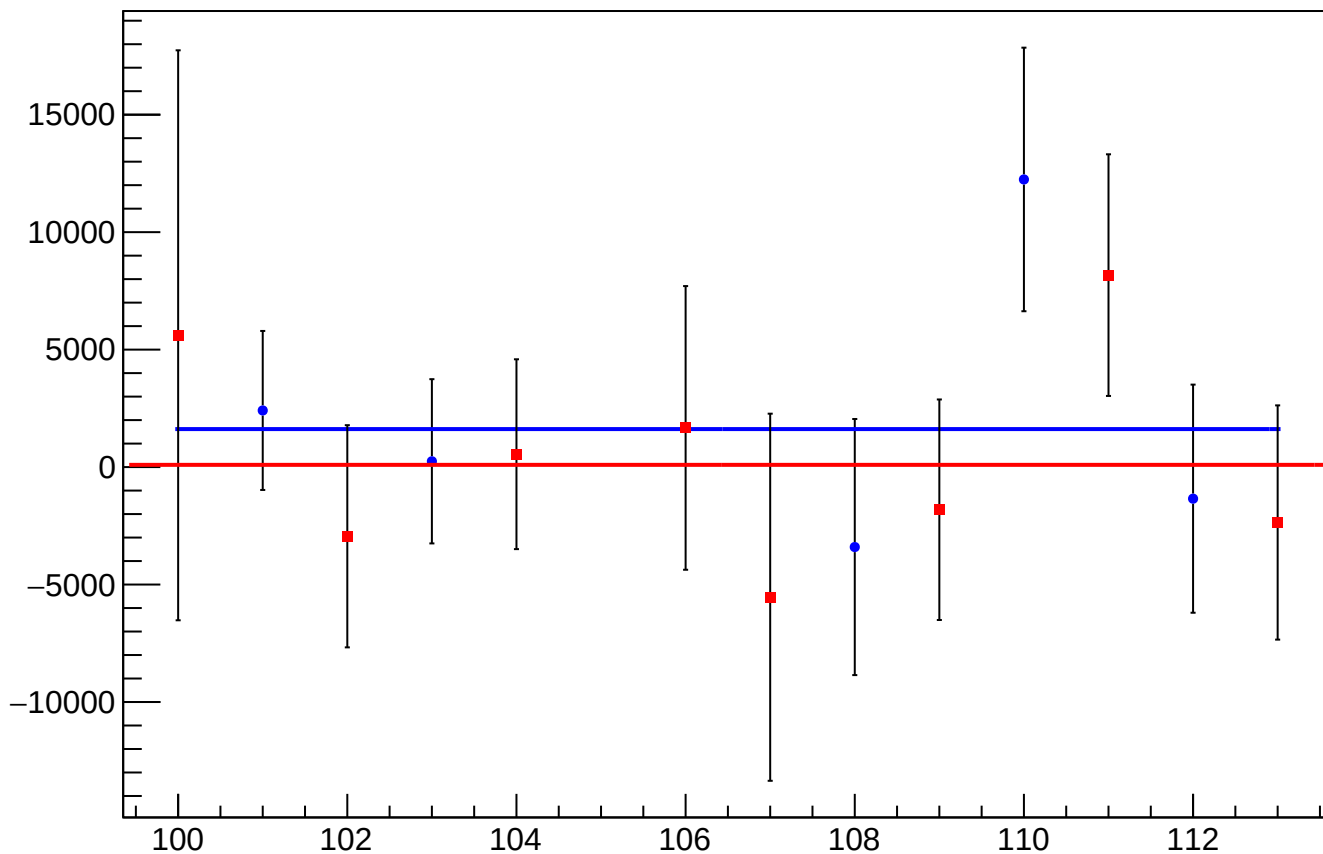
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1460.011+/-0.489  $\chi^2/\text{NDF}$ : 1468291.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_atl1\_mean vs Slug



Right In: 1617.609 $\pm$ 1899.969  $\chi^2$ /NDF: 5.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 94.896 $\pm$ 1889.713  $\chi^2$ /NDF: 4.1/7

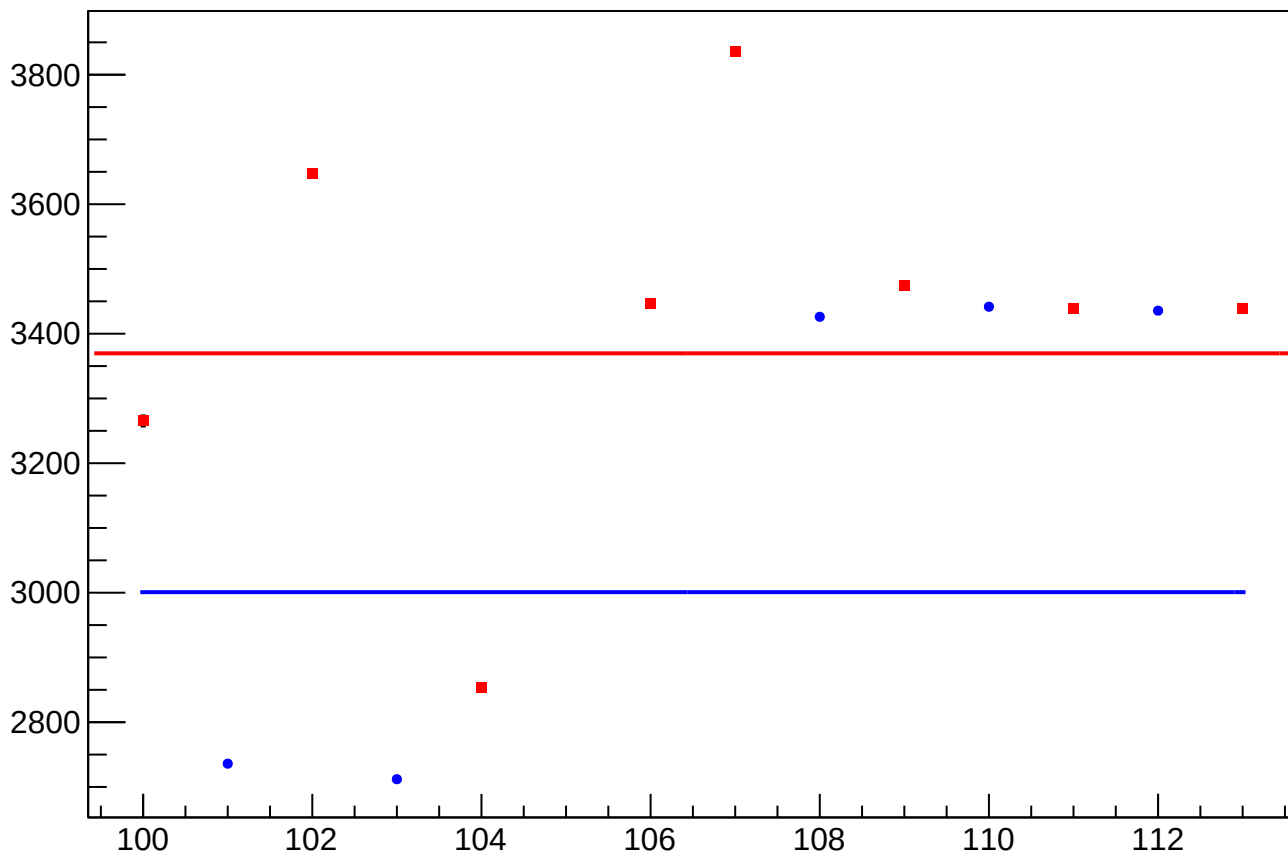
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 852.132 $\pm$ 1339.840  $\chi^2$ /NDF: 9.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atl1\_rms vs Slug



Right In: 3000.853+/-1.343  $\chi^2/\text{NDF}$ : 66473.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3369.678+/-1.336  $\chi^2/\text{NDF}$ : 48980.3/7

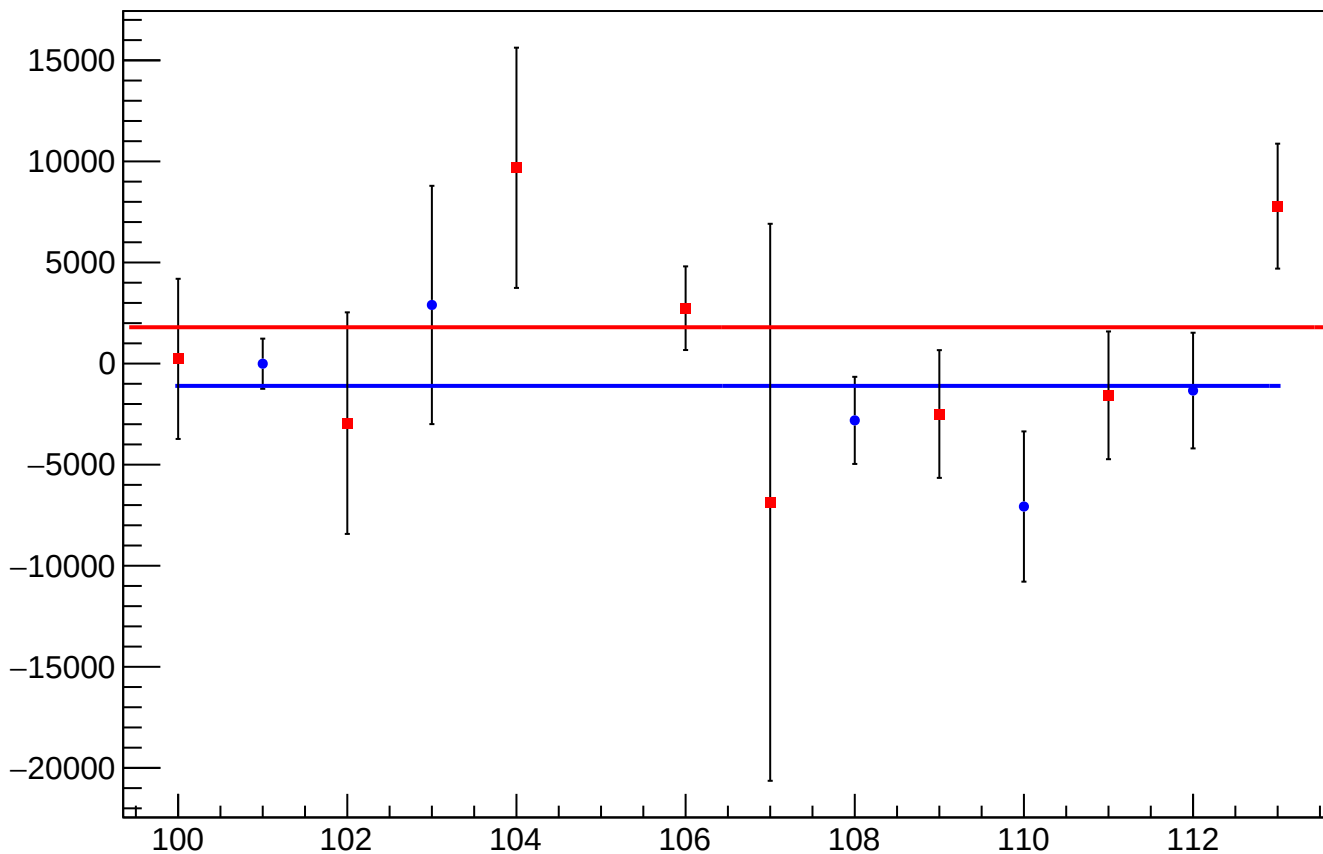
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3186.264+/-0.947  $\chi^2/\text{NDF}$ : 153341.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_dit\_correction\_mean vs Slug



Right In: -1103.691 $\pm$ 958.399  $\chi^2$ /NDF: 4.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1797.102 $\pm$ 1222.287  $\chi^2$ /NDF: 10.0/7

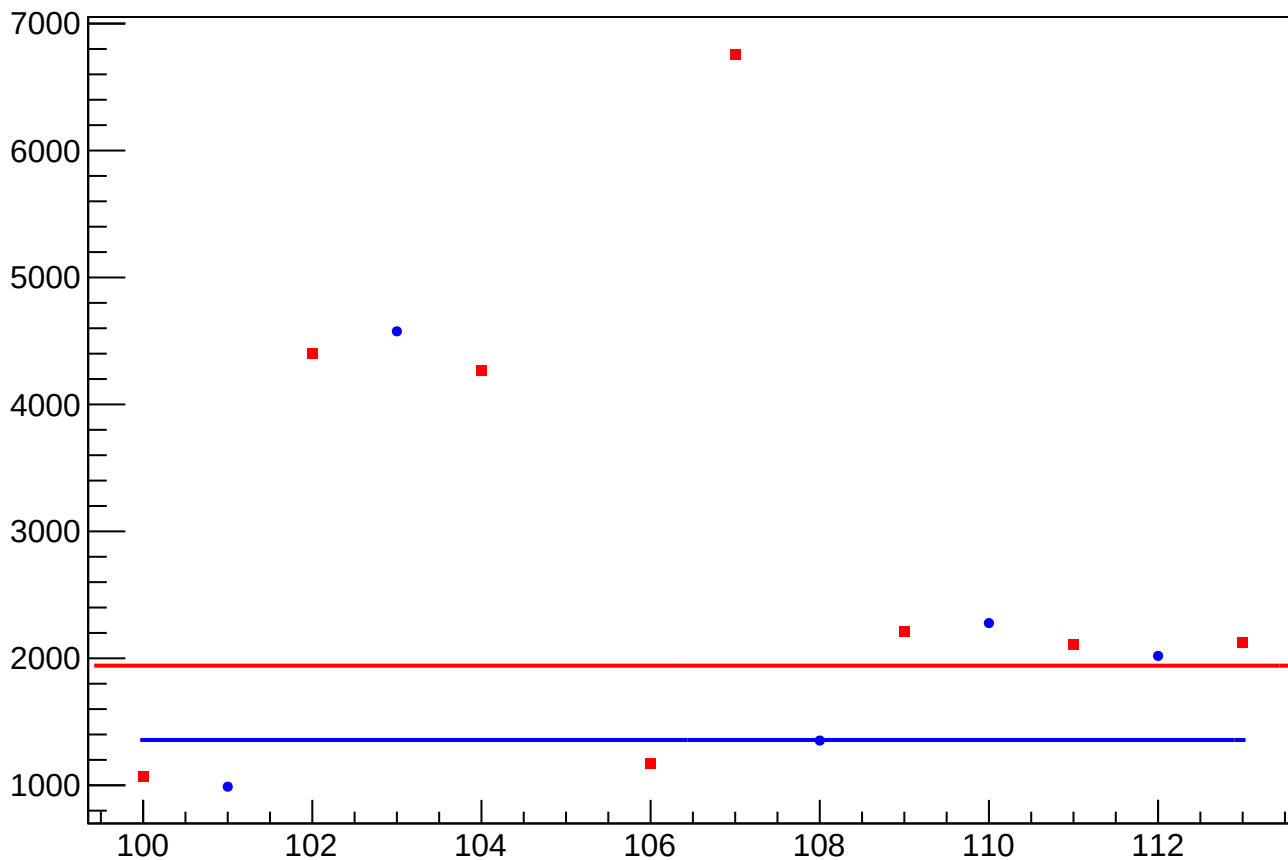
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.742 $\pm$ 754.197  $\chi^2$ /NDF: 18.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_dit\_correction\_rms vs Slug



Right In: 1356.917 $\pm$ 0.678  $\chi^2$ /NDF: 1002673.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1942.207 $\pm$ 0.864  $\chi^2$ /NDF: 1354820.7/7

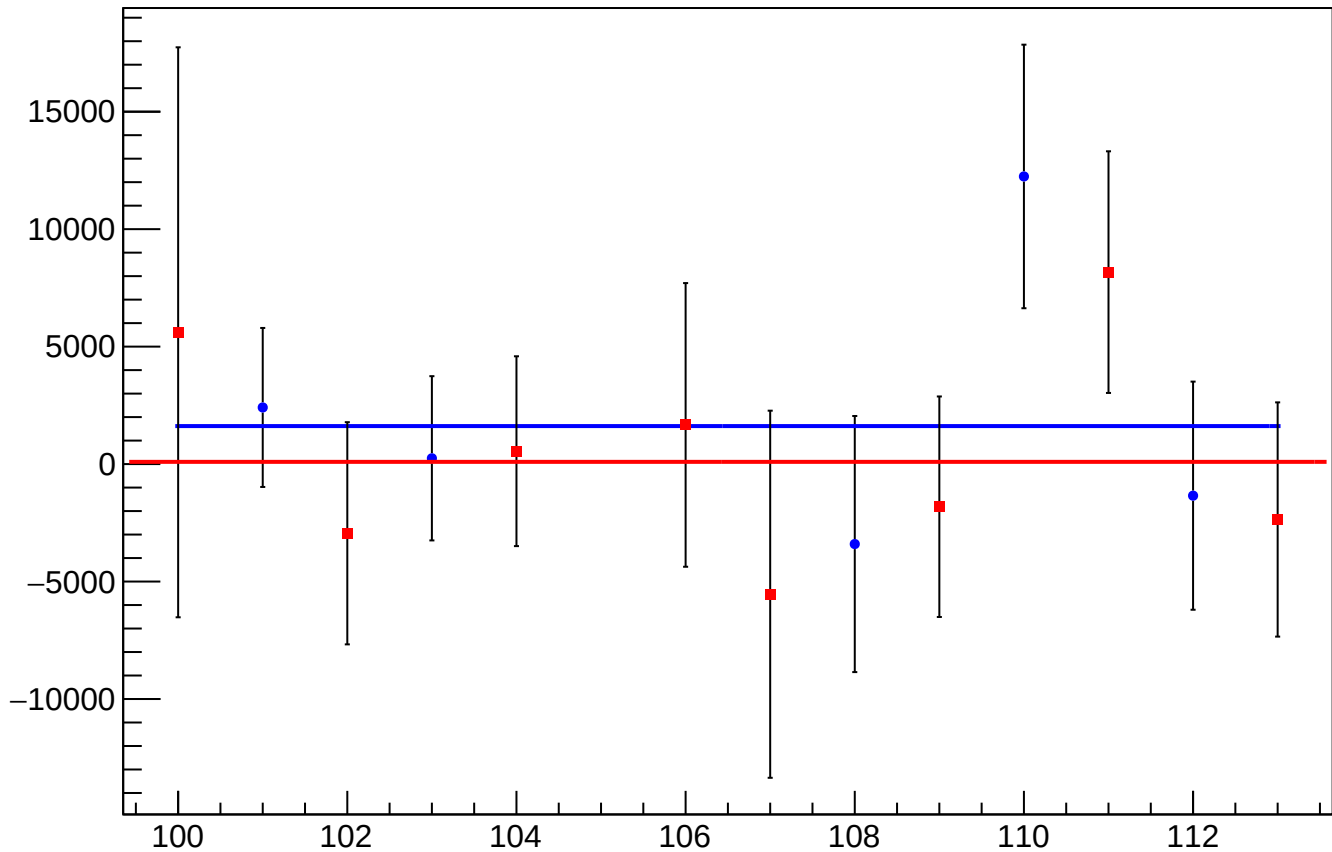
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1579.757 $\pm$ 0.533  $\chi^2$ /NDF: 2641484.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atl1\_mean vs Slug



Right In: 1617.601 $\pm$ 1899.968  $\chi^2$ /NDF: 5.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 94.902 $\pm$ 1889.712  $\chi^2$ /NDF: 4.1/7

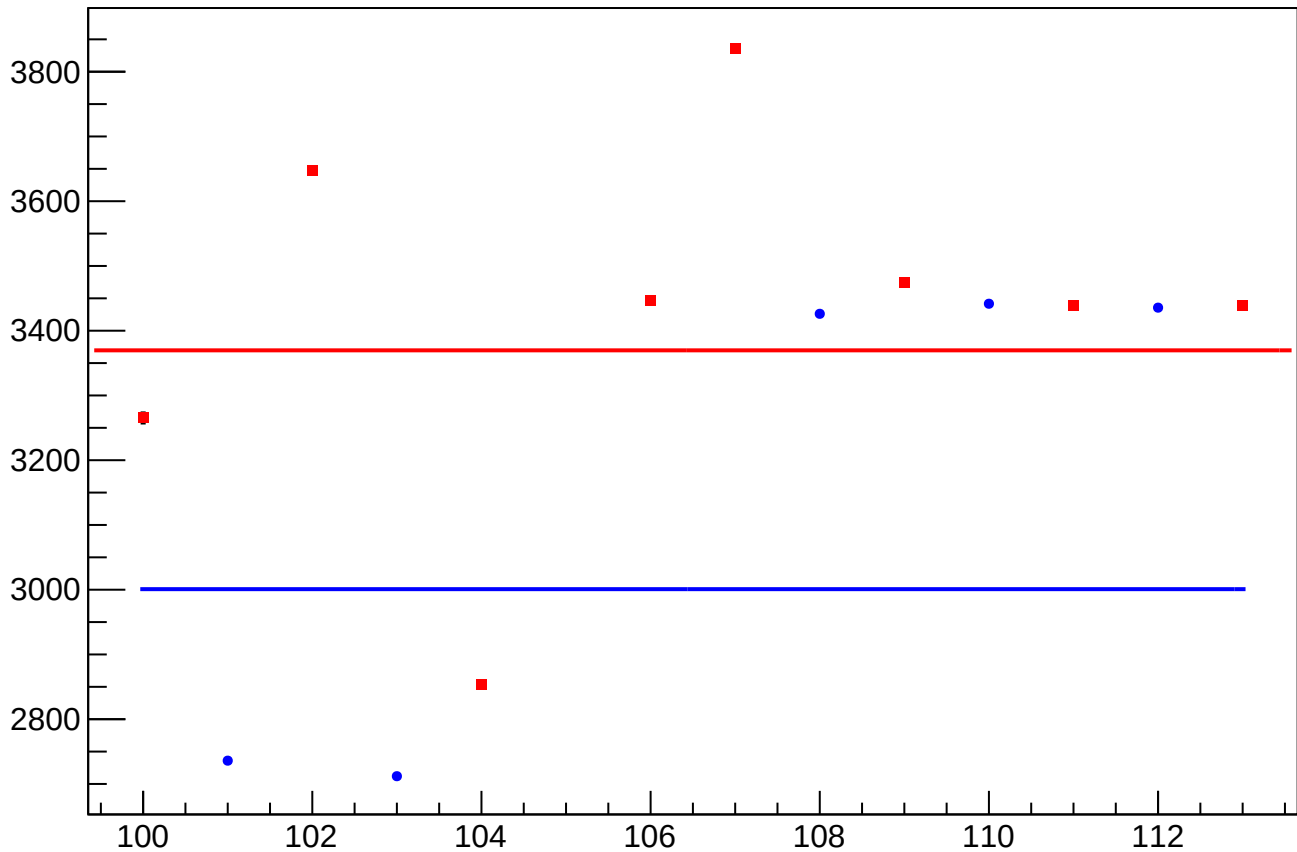
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 852.131 $\pm$ 1339.839  $\chi^2$ /NDF: 9.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atl1\_rms vs Slug



Right In: 3000.851+/-1.343  $\chi^2/\text{NDF}$ : 66474.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3369.676+/-1.336  $\chi^2/\text{NDF}$ : 48981.0/7

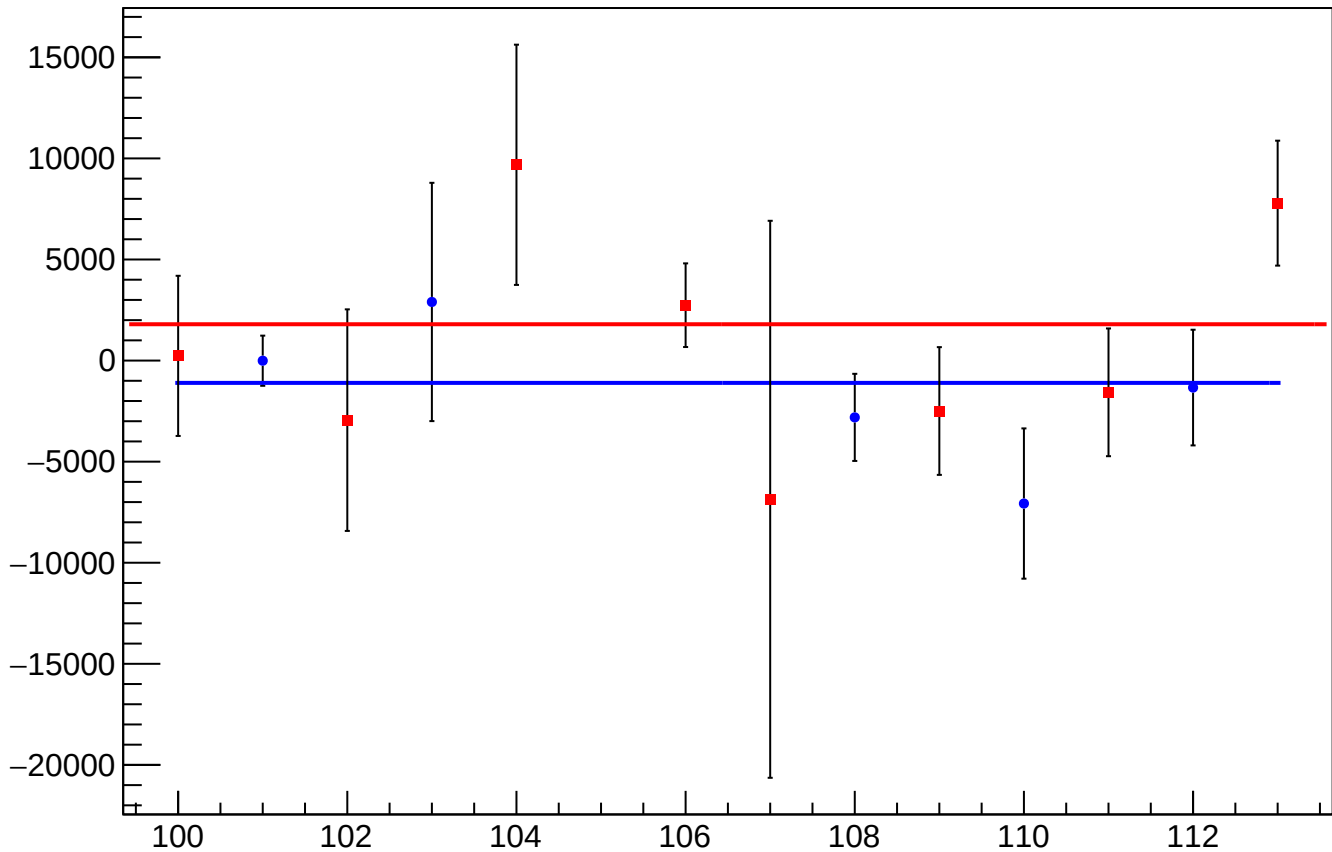
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3186.262+/-0.947  $\chi^2/\text{NDF}$ : 153342.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_dit\_correction\_mean vs Slug



Right In: -1103.697 $\pm$ 958.399  $\chi^2$ /NDF: 4.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1797.099 $\pm$ 1222.286  $\chi^2$ /NDF: 10.0/7

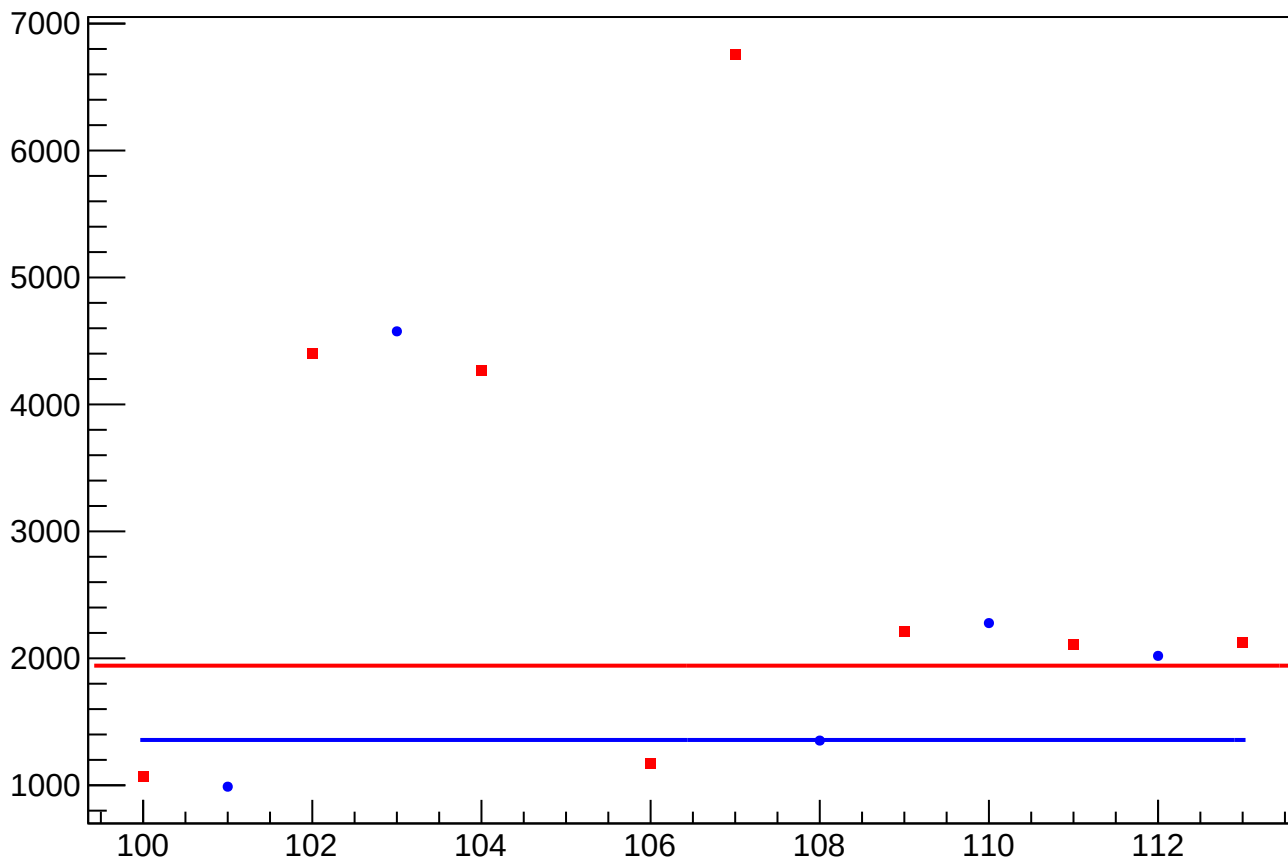
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.738 $\pm$ 754.196  $\chi^2$ /NDF: 18.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_eigen\_dit\_correction\_rms vs Slug



Right In: 1356.916 $\pm$ 0.678  $\chi^2$ /NDF: 1002674.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1942.205 $\pm$ 0.864  $\chi^2$ /NDF: 1354824.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

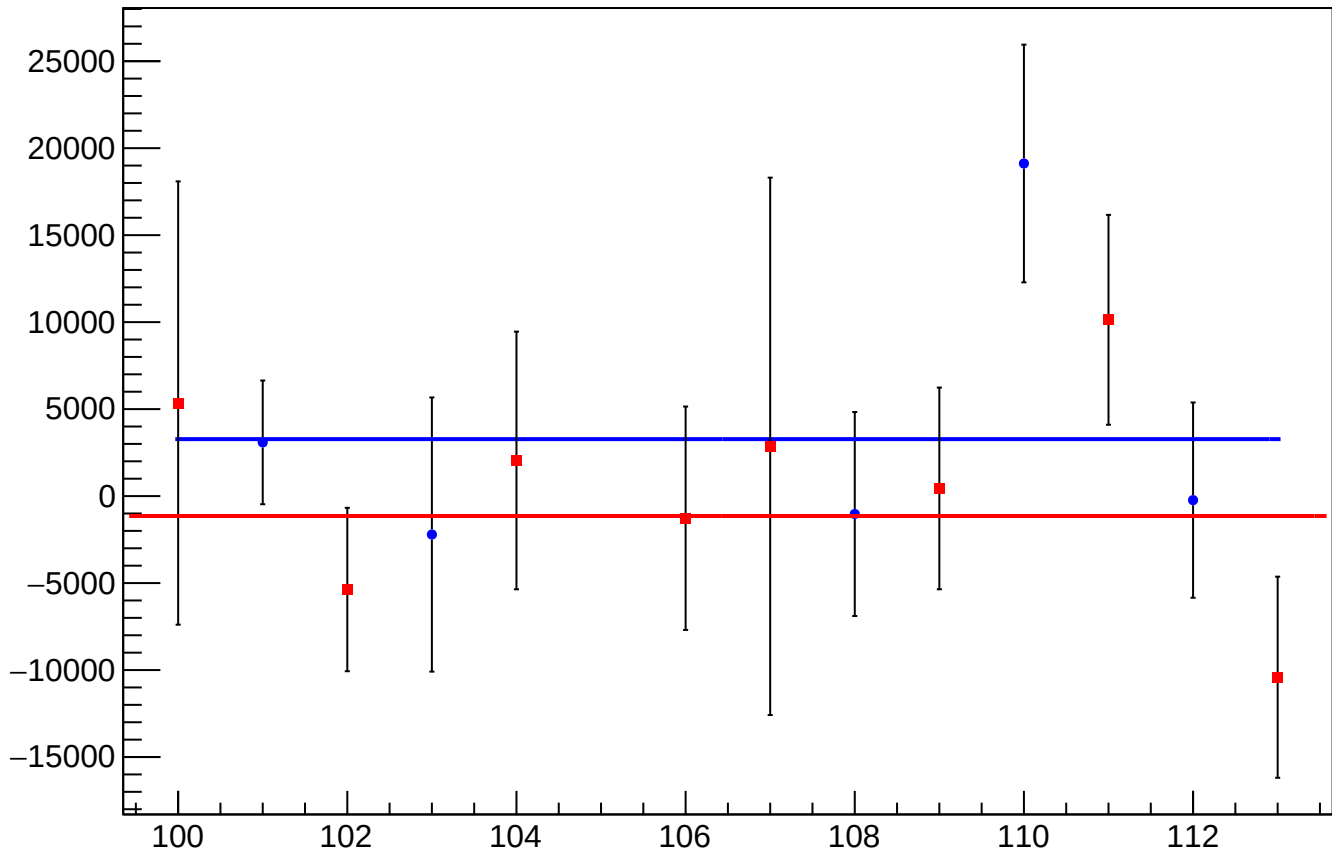
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1579.756 $\pm$ 0.533  $\chi^2$ /NDF: 2641487.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_atl1\_mean vs Slug



Right In: 3274.611 $\pm$ 2373.858  $\chi^2$ /NDF: 6.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1144.306 $\pm$ 2322.838  $\chi^2$ /NDF: 7.5/7

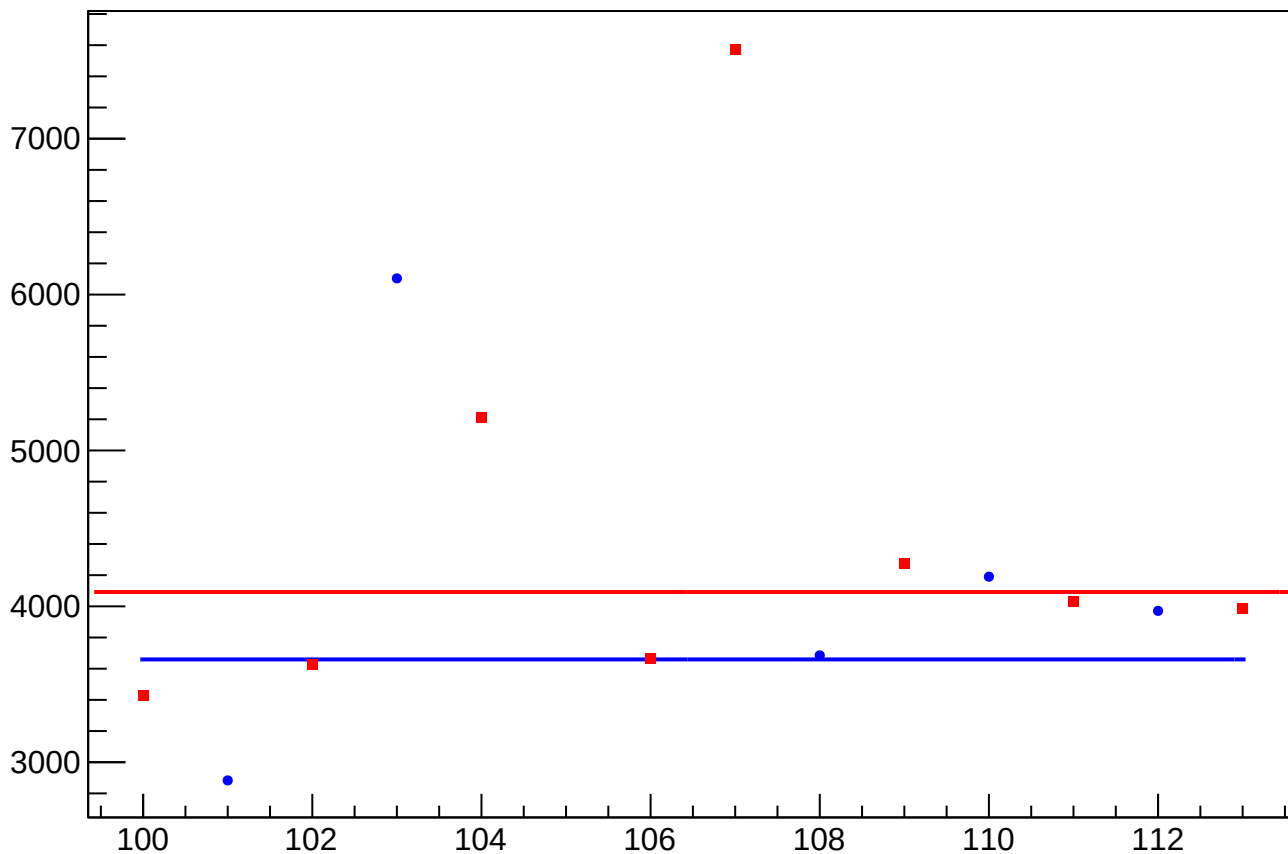
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1017.156 $\pm$ 1660.239  $\chi^2$ /NDF: 16.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_rms vs Slug



Right In: 3659.454+/-1.679  $\chi^2/\text{NDF}$ : 306024.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4092.105+/-1.642  $\chi^2/\text{NDF}$ : 184117.9/7

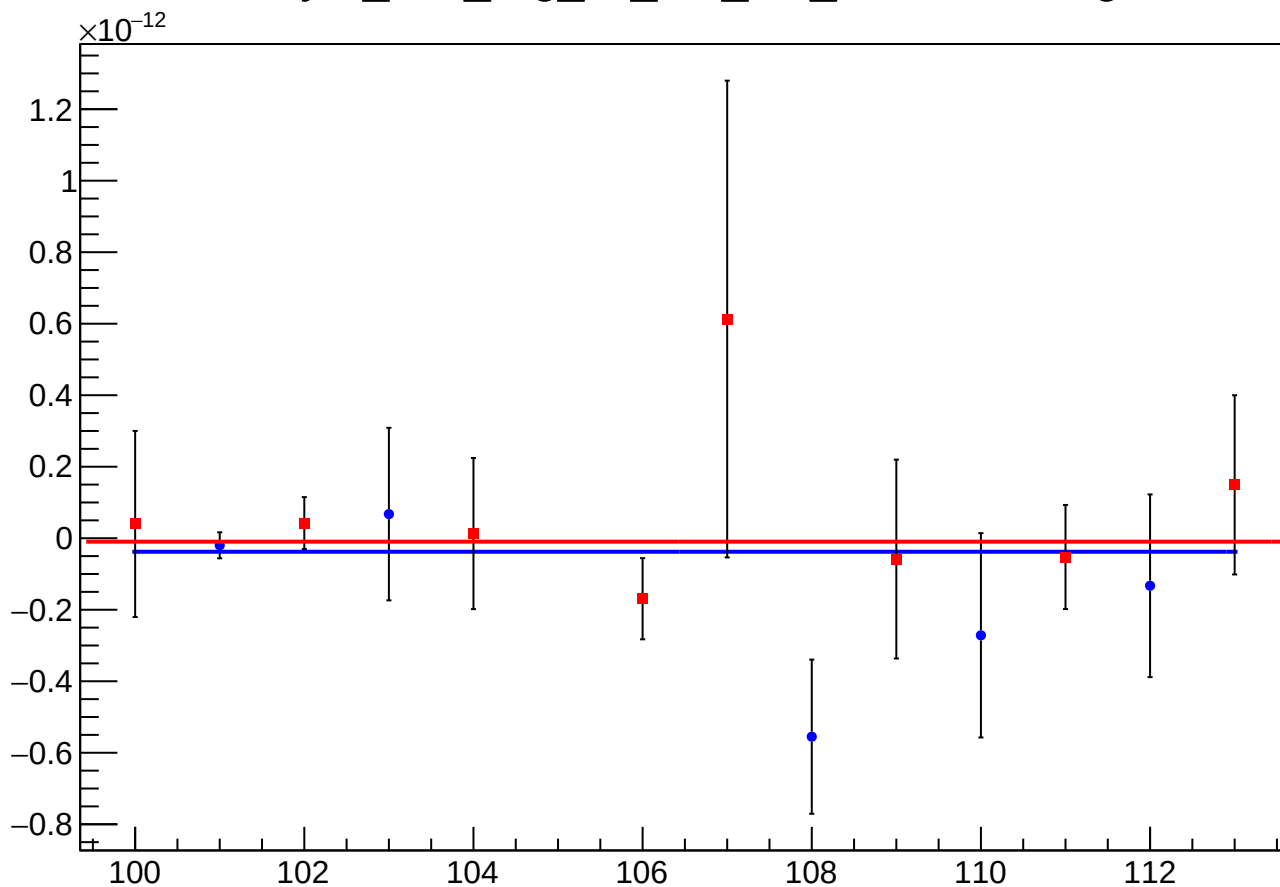
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3880.479+/-1.174  $\chi^2/\text{NDF}$ : 524081.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.9/7

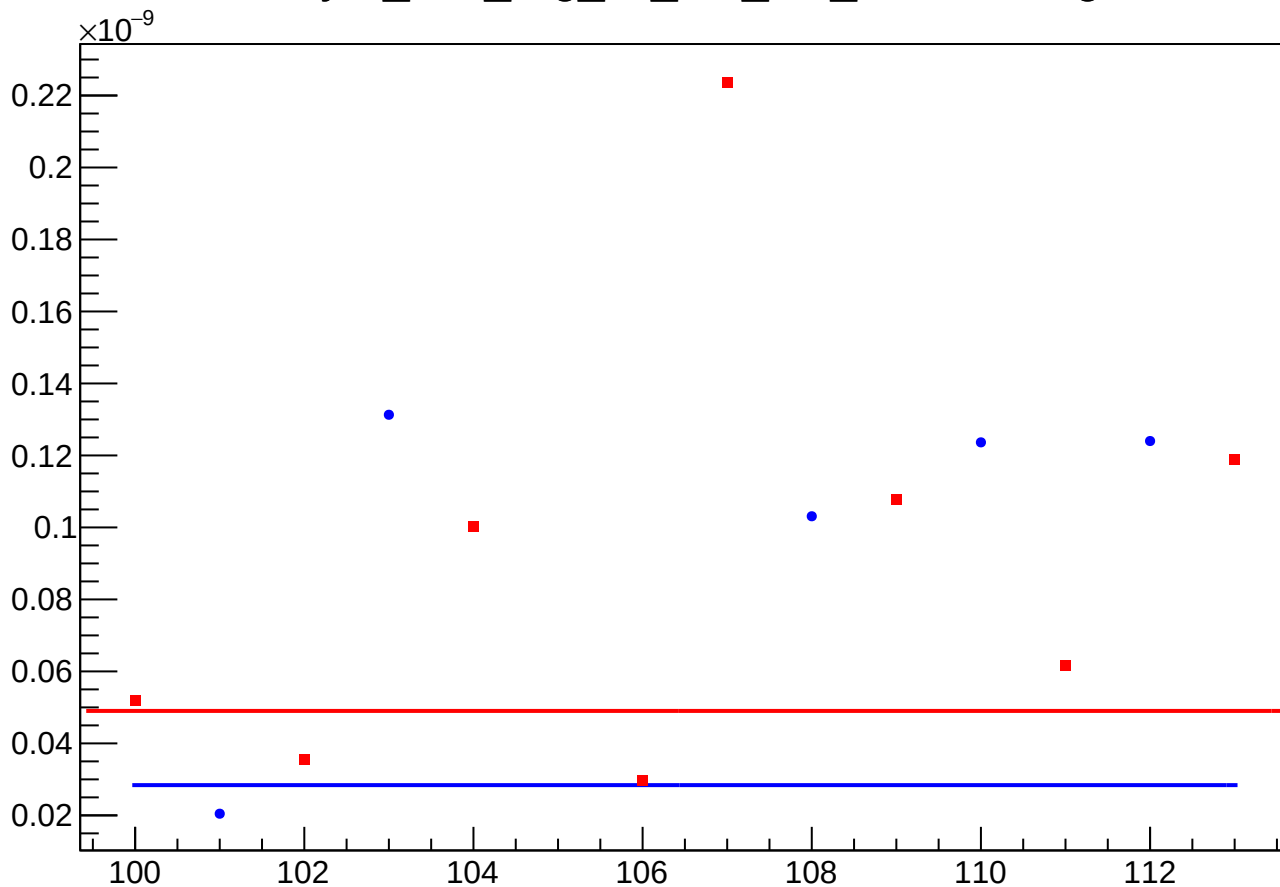
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1201160.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 639989.2/7

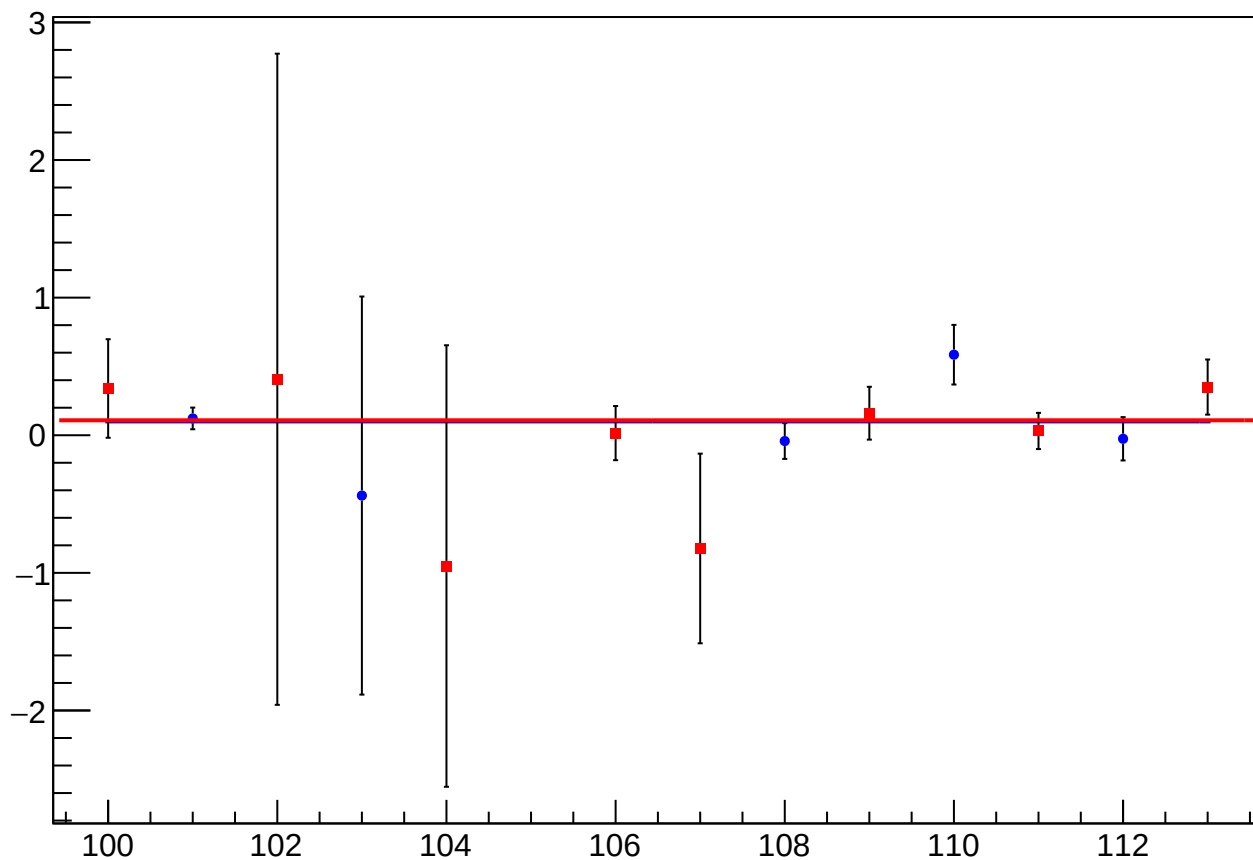
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2063229.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.101 $\pm$ 0.059  $\chi^2$ /NDF: 7.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.109 $\pm$ 0.083  $\chi^2$ /NDF: 4.8/7

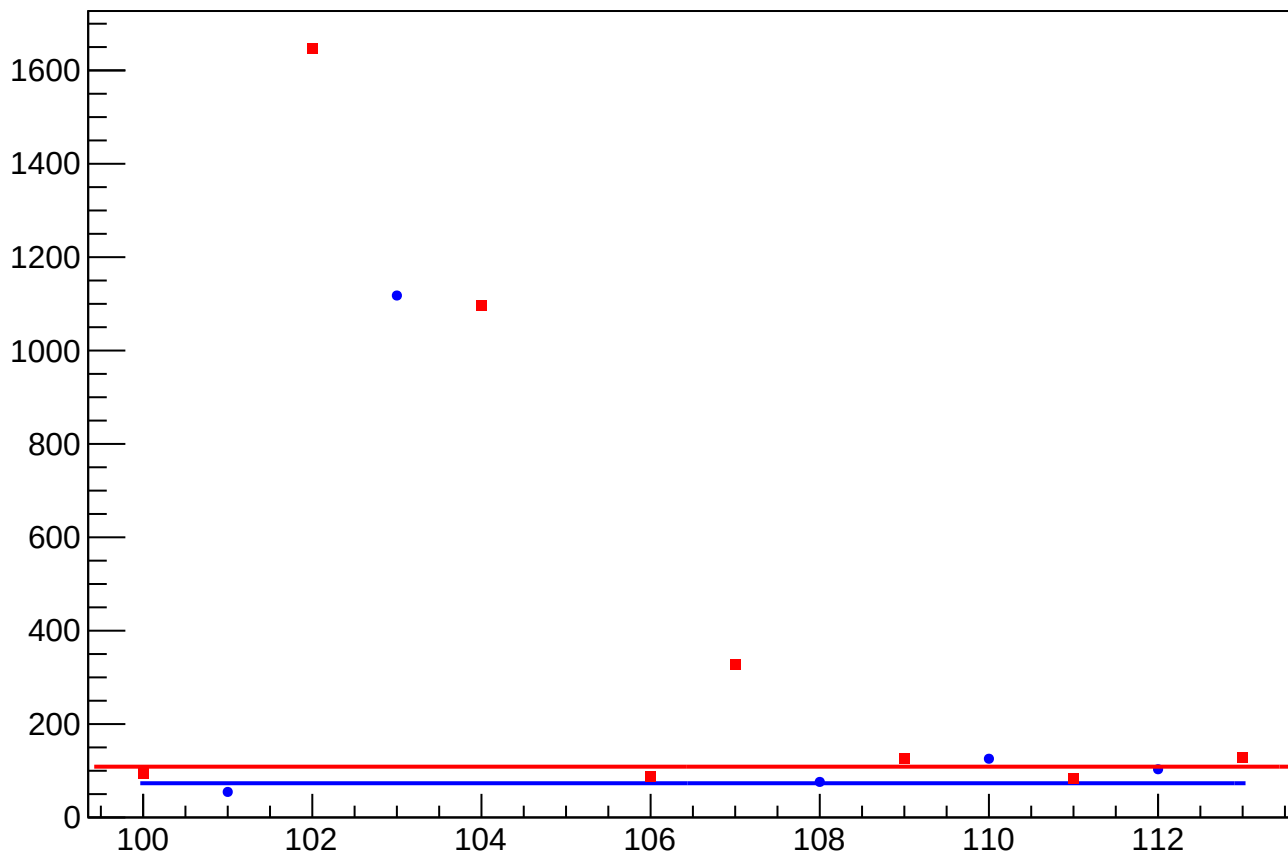
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.103 $\pm$ 0.048  $\chi^2$ /NDF: 11.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 73.285+/-0.042  $\chi^2/\text{NDF}$ : 1345277.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 108.768+/-0.058  $\chi^2/\text{NDF}$ : 1935165.7/7

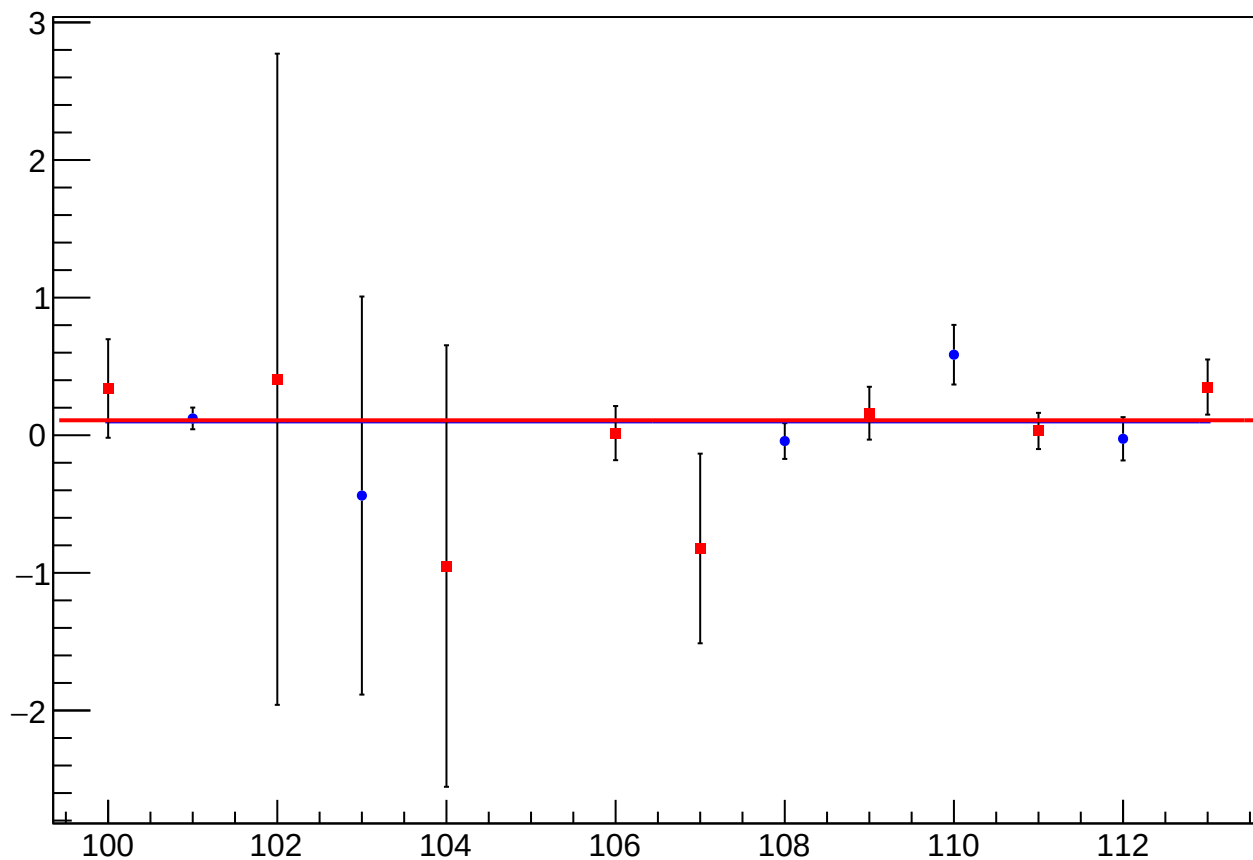
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 85.382+/-0.034  $\chi^2/\text{NDF}$ : 3522984.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.101 $\pm$ 0.059  $\chi^2$ /NDF: 7.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.109 $\pm$ 0.083  $\chi^2$ /NDF: 4.8/7

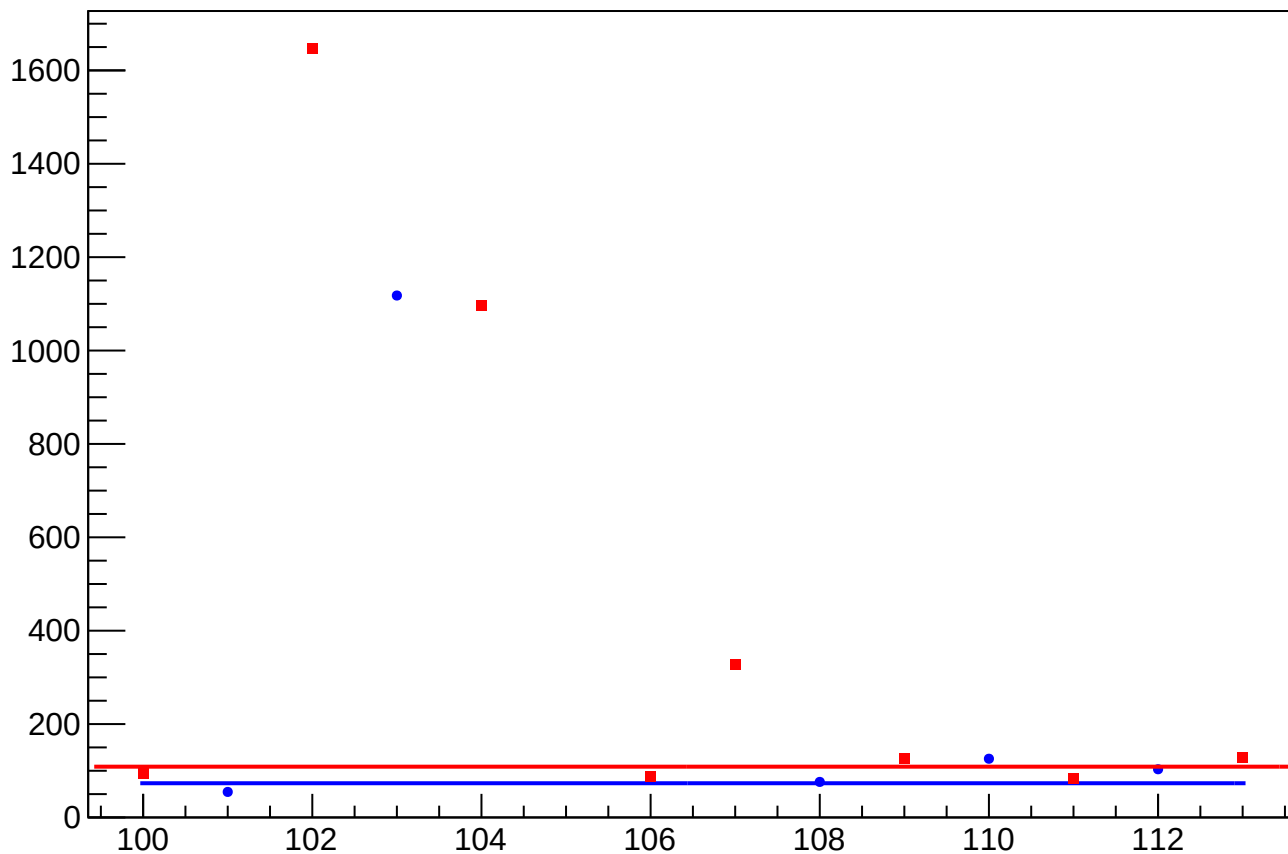
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.103 $\pm$ 0.048  $\chi^2$ /NDF: 11.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 73.285+/-0.042  $\chi^2/\text{NDF}$ : 1345277.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 108.768+/-0.058  $\chi^2/\text{NDF}$ : 1935165.7/7

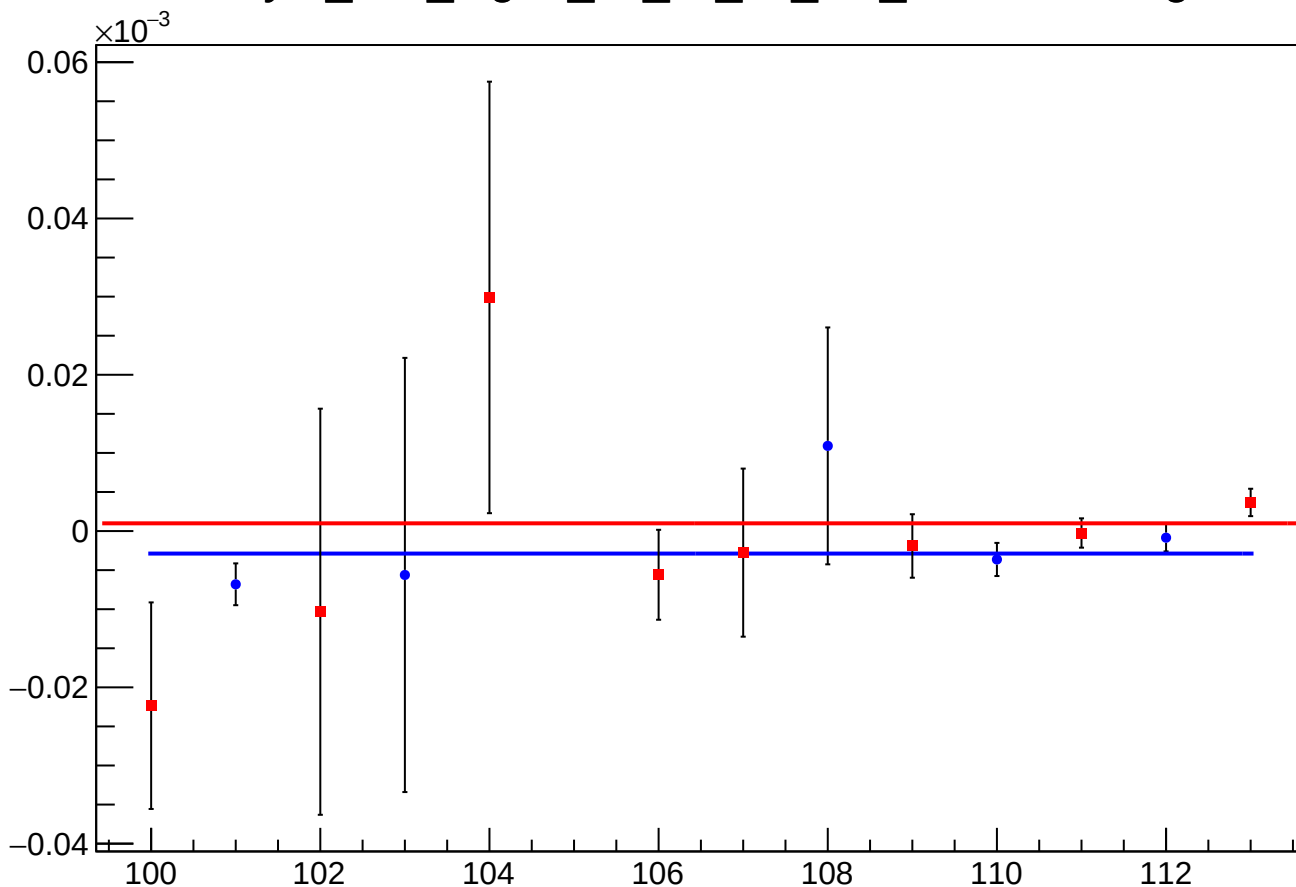
All: 85.382+/-0.034  $\chi^2/\text{NDF}$ : 3522984.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl1\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 9.1/7

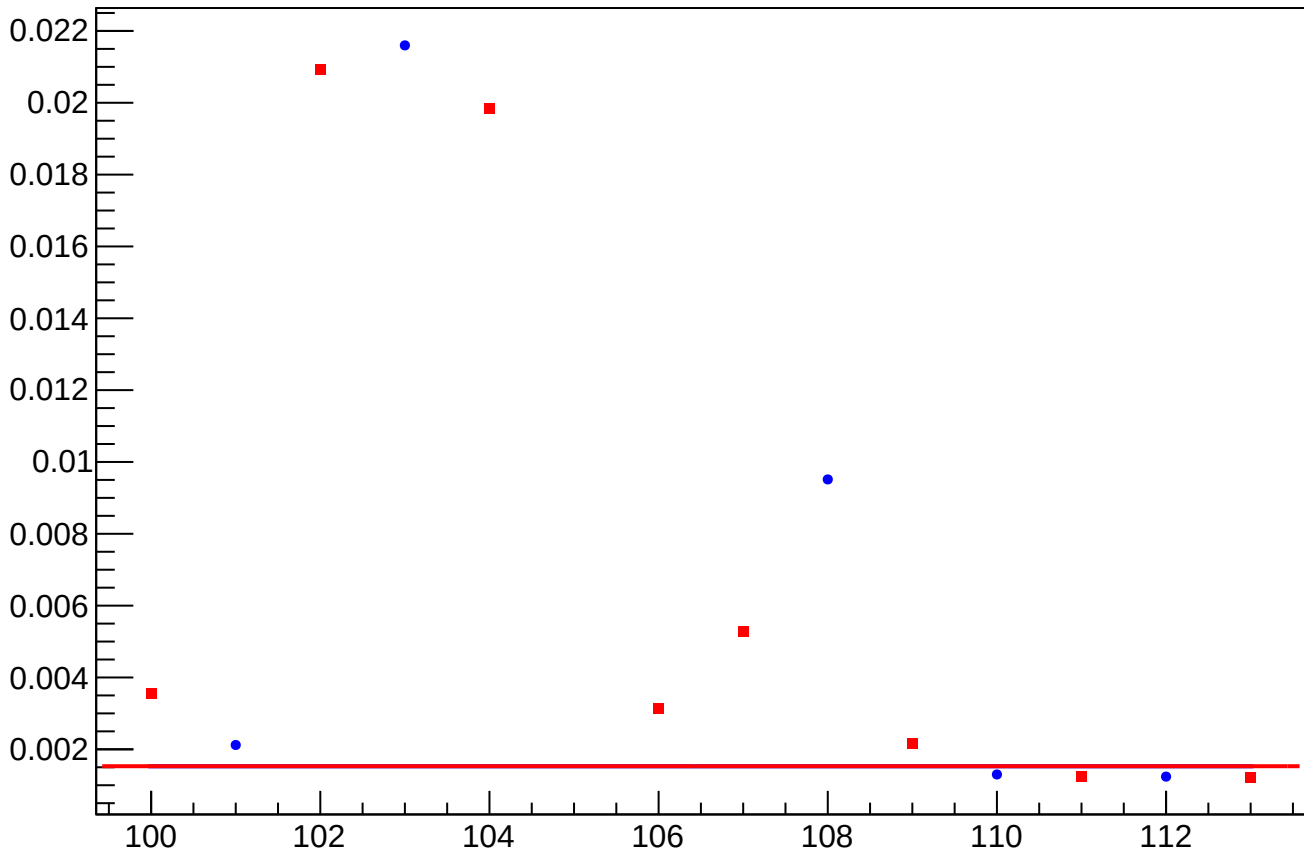
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 18.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1774265.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2596459.9/7

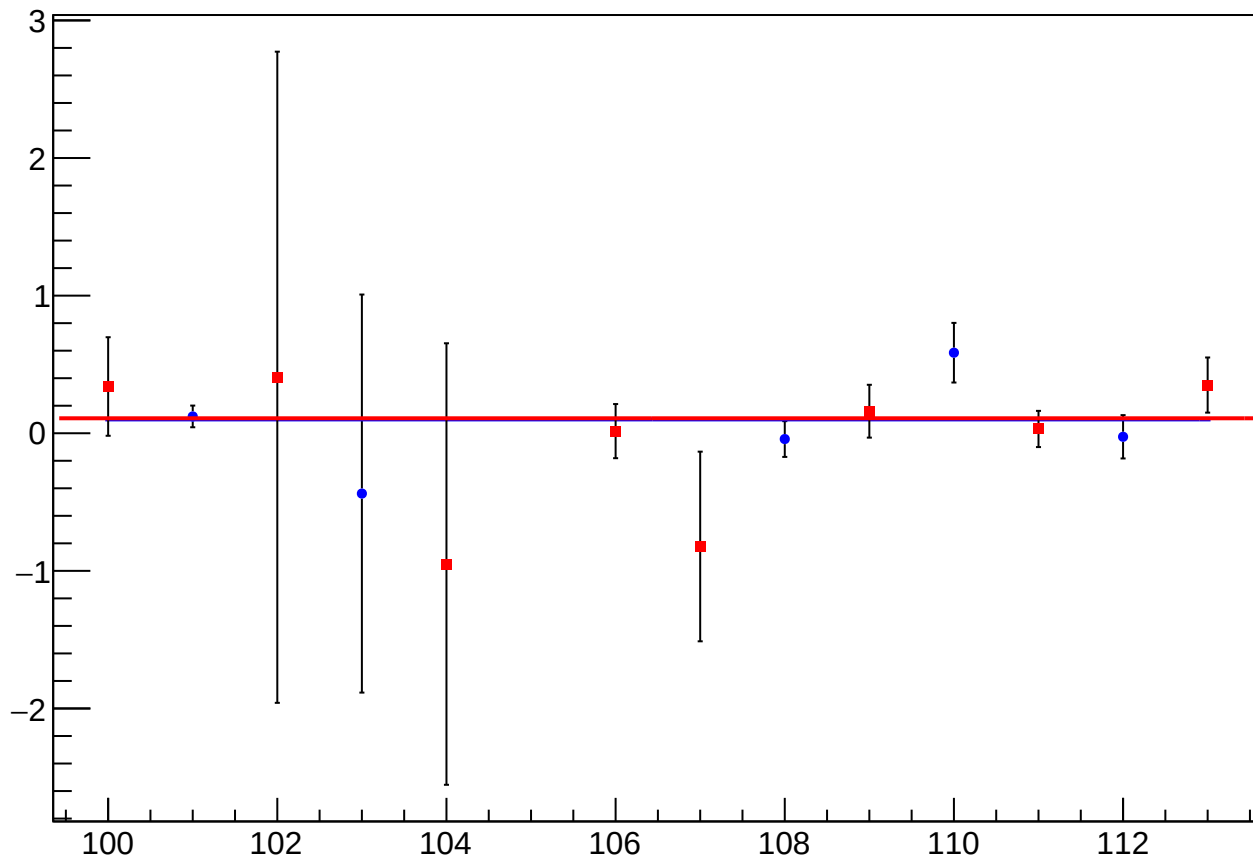
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4370731.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.101 $\pm$ 0.059  $\chi^2$ /NDF: 7.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.109 $\pm$ 0.083  $\chi^2$ /NDF: 4.8/7

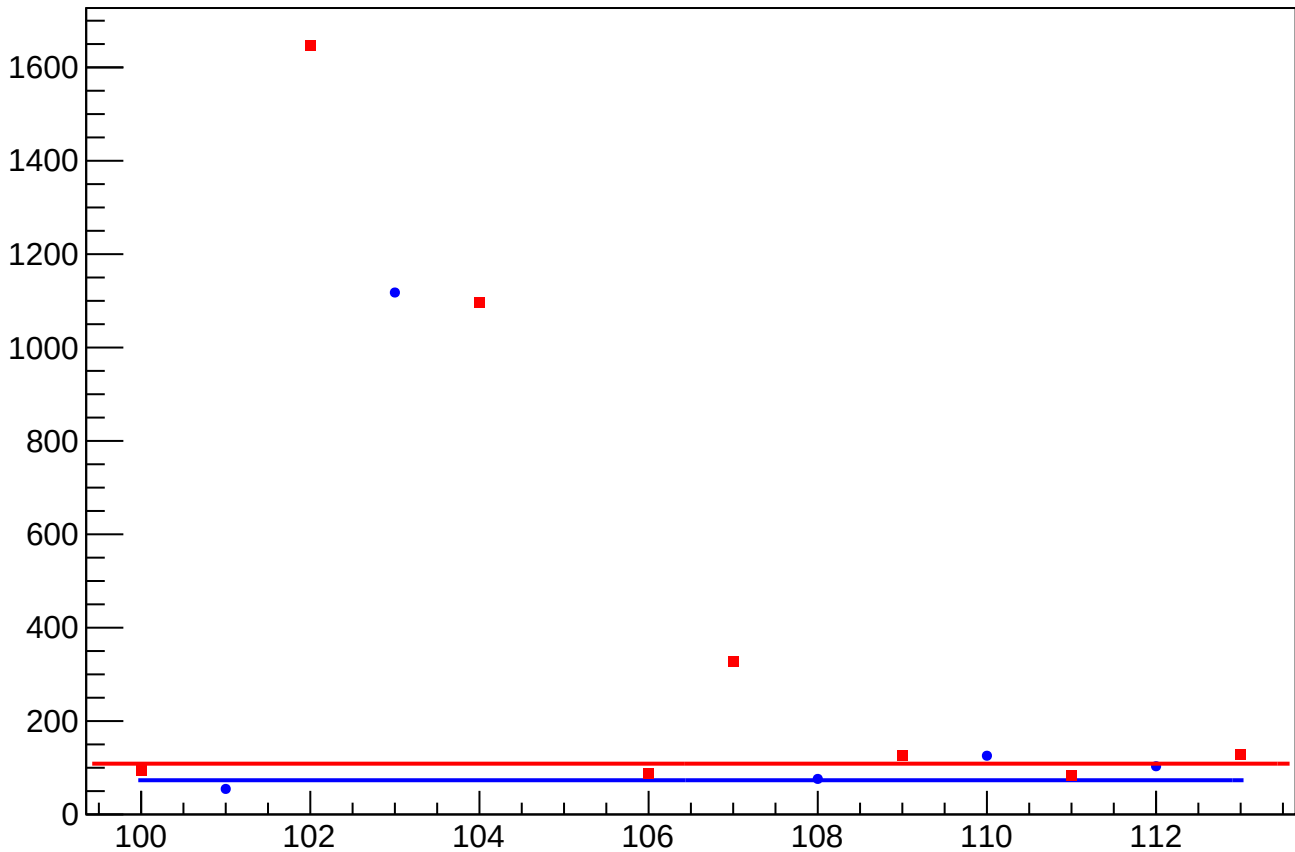
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.103 $\pm$ 0.048  $\chi^2$ /NDF: 11.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 73.285 $\pm$ 0.042  $\chi^2$ /NDF: 1345288.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

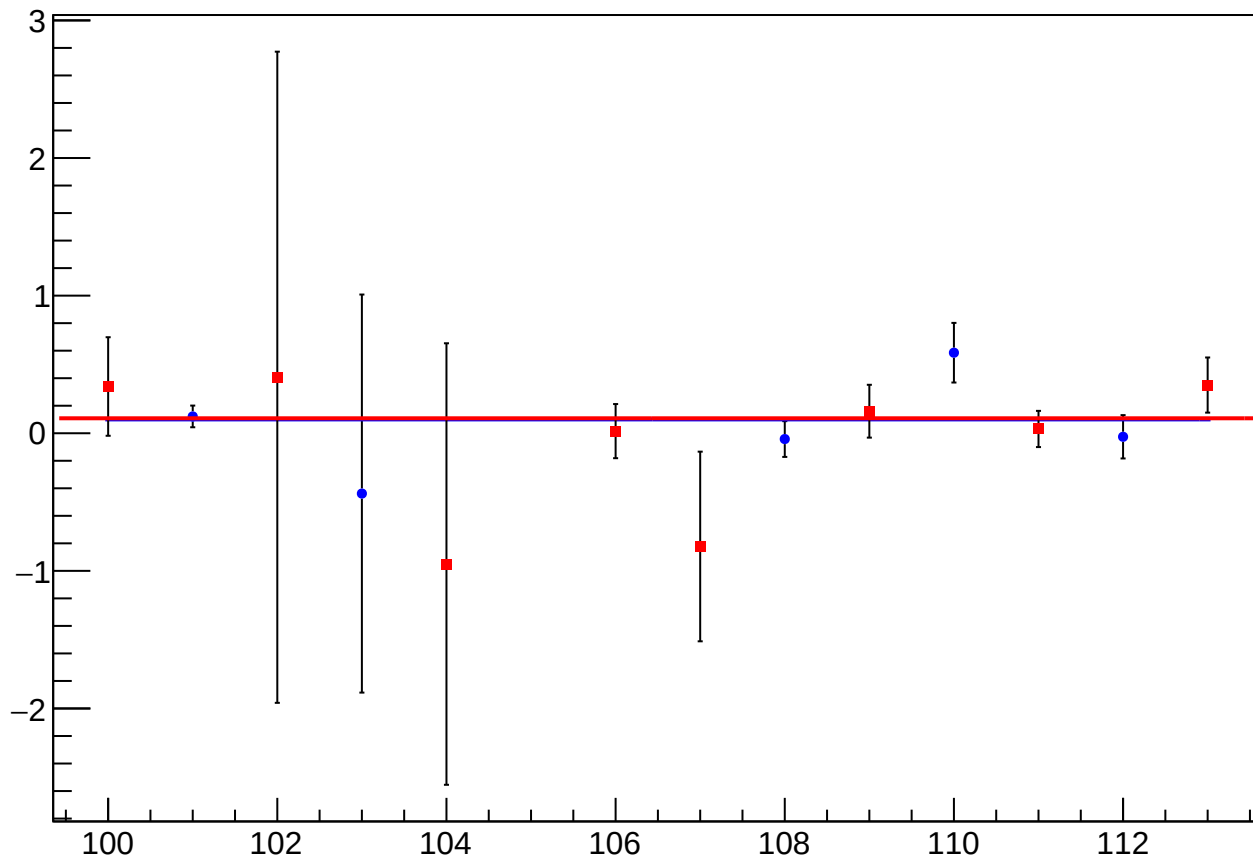
Right Out: 108.767 $\pm$ 0.058  $\chi^2$ /NDF: 1935163.6/7

All: 85.382 $\pm$ 0.034  $\chi^2$ /NDF: 3522982.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.101 $\pm$ 0.059  $\chi^2$ /NDF: 7.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.109 $\pm$ 0.083  $\chi^2$ /NDF: 4.8/7

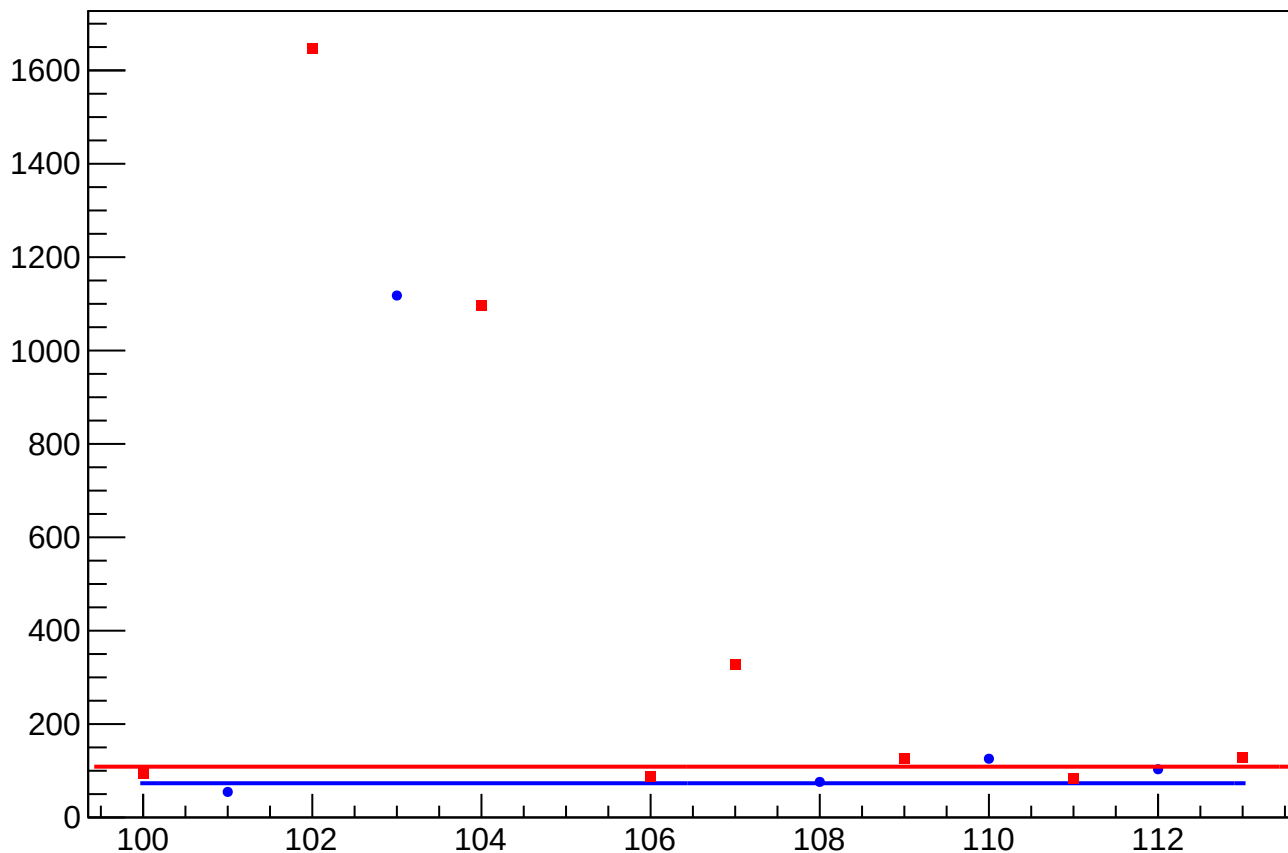
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.103 $\pm$ 0.048  $\chi^2$ /NDF: 11.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 73.285+/-0.042  $\chi^2/\text{NDF}$ : 1345288.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 108.767+/-0.058  $\chi^2/\text{NDF}$ : 1935163.6/7

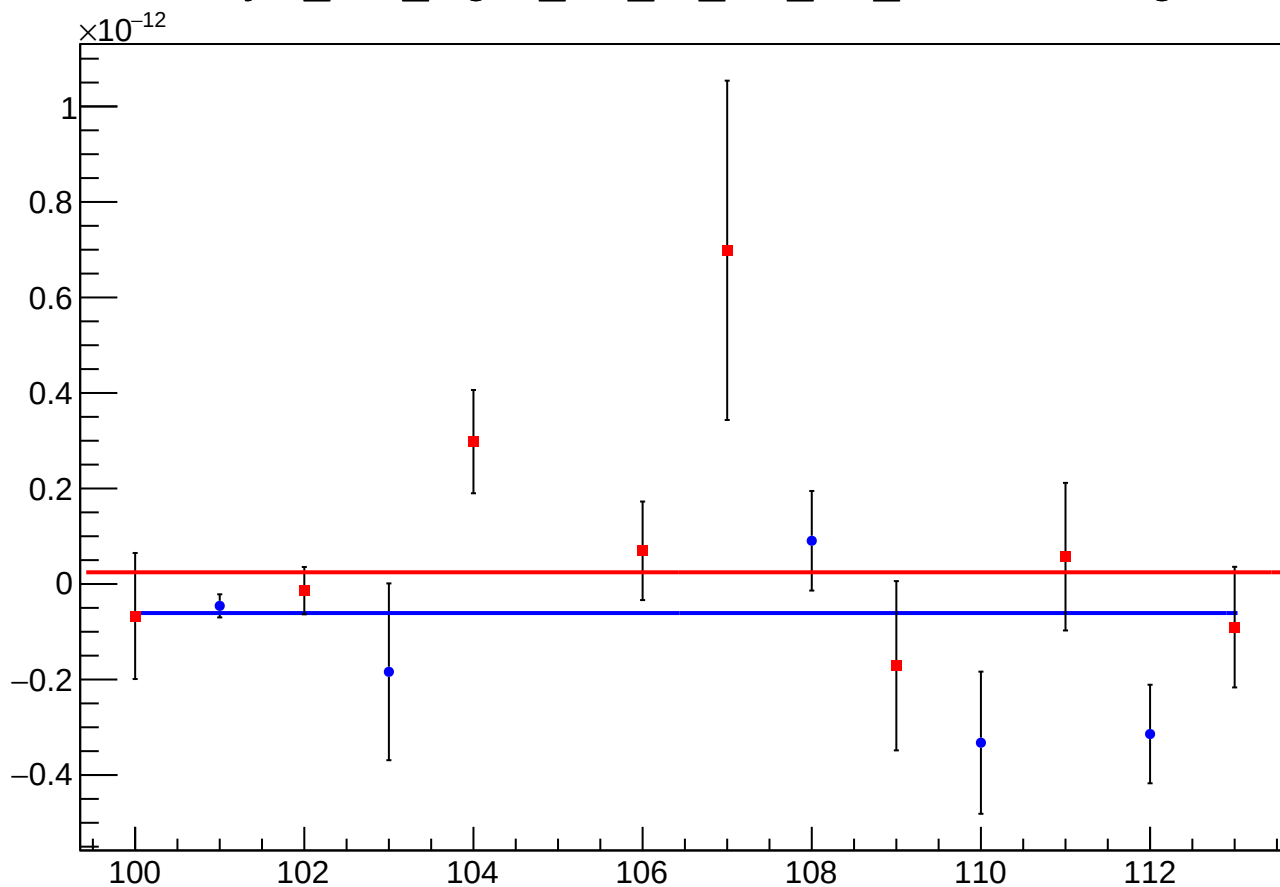
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 85.382+/-0.034  $\chi^2/\text{NDF}$ : 3522982.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.4/7

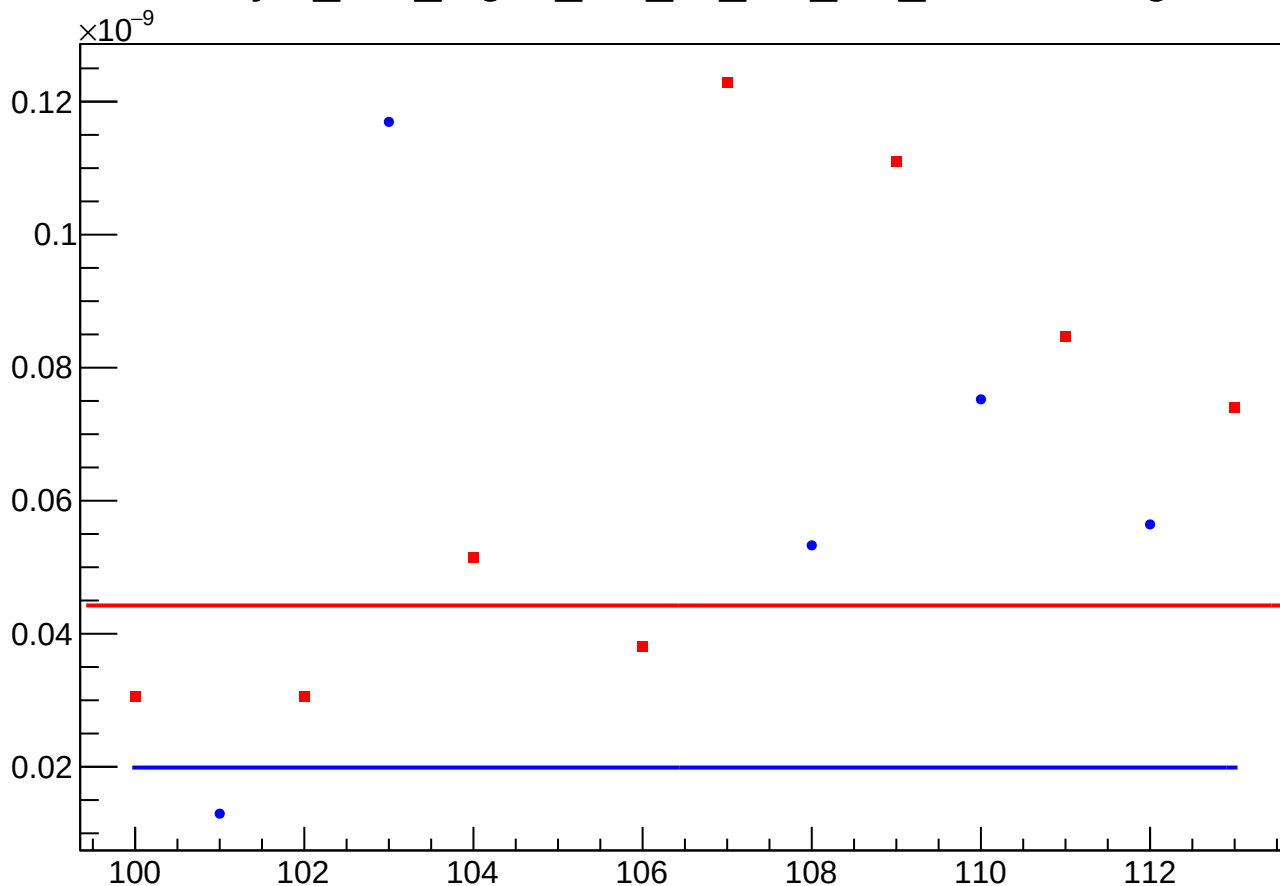
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 29.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1447100.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 819614.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

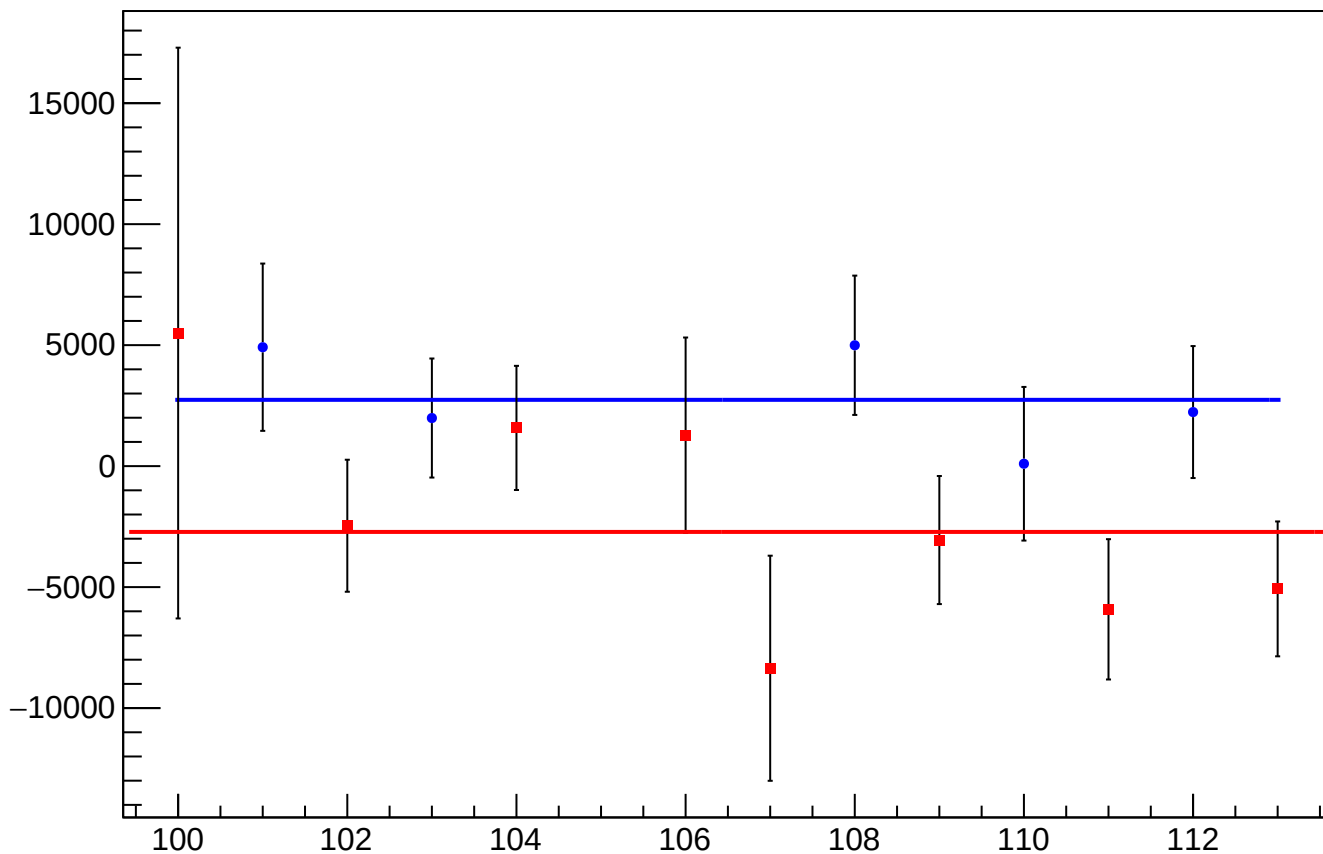
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2935260.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl2\_mean vs Slug



Right In: 2739.399 $\pm$ 1287.446  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2719.453 $\pm$ 1123.961  $\chi^2$ /NDF: 7.7/7

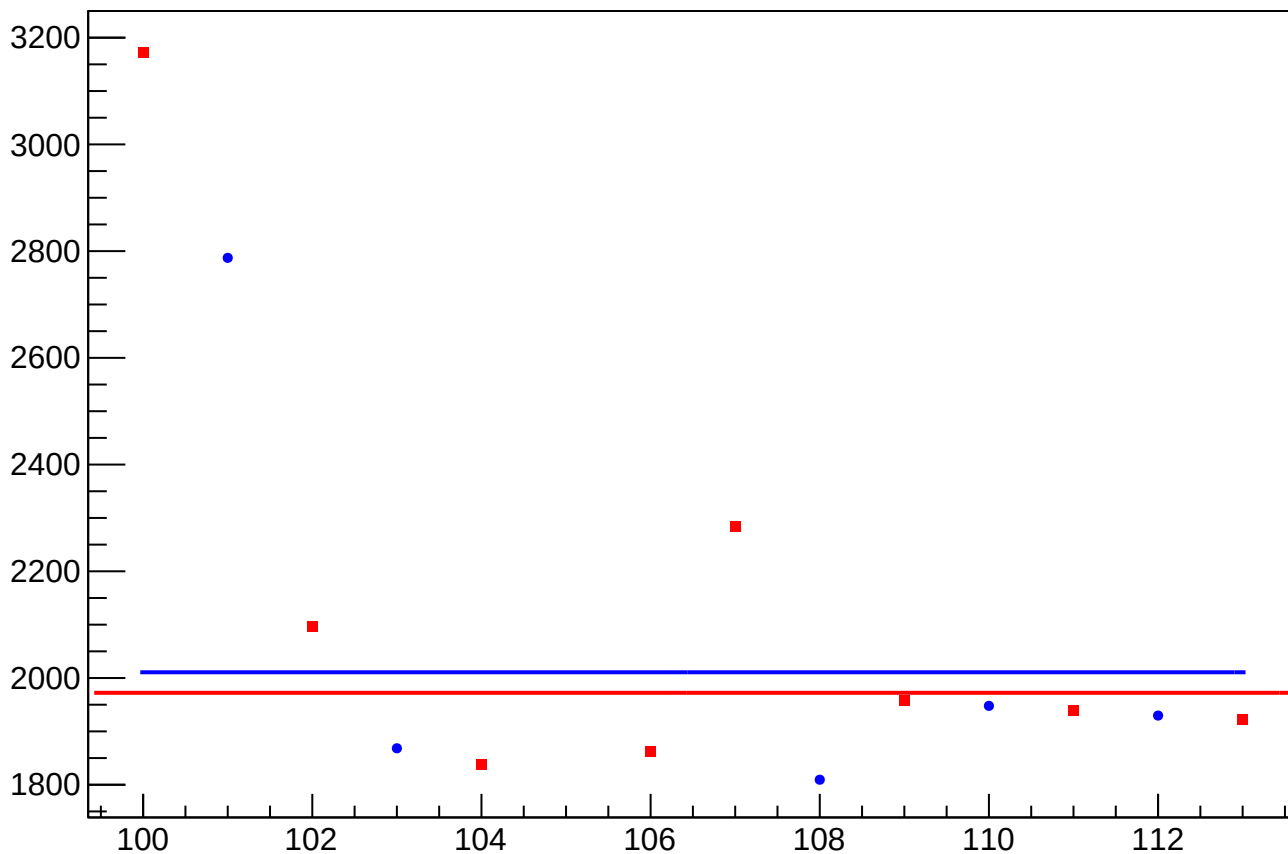
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -358.423 $\pm$ 846.699  $\chi^2$ /NDF: 19.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl2\_rms vs Slug



Right In: 2010.782 $\pm$ 0.910  $\chi^2$ /NDF: 119996.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1972.309 $\pm$ 0.795  $\chi^2$ /NDF: 41747.6/7

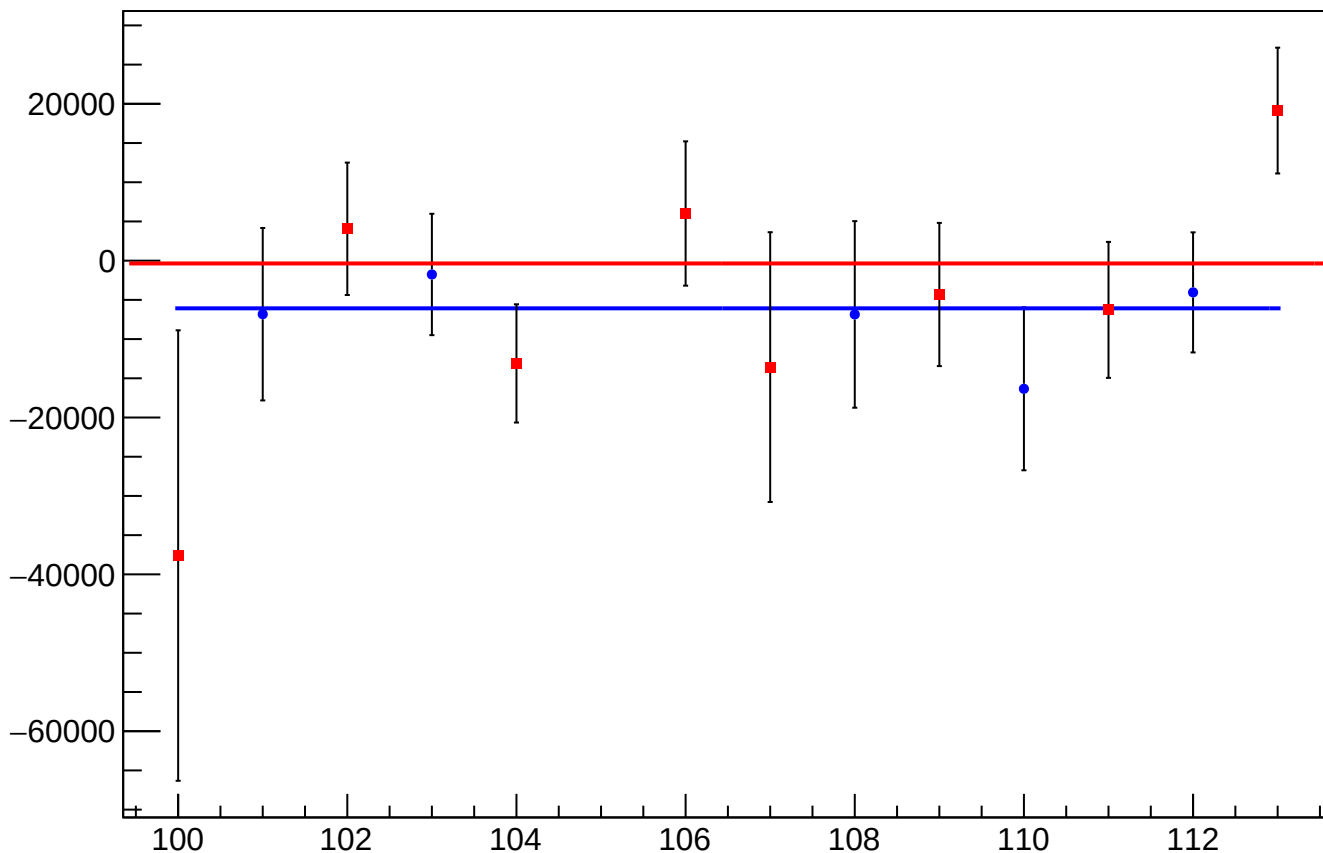
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1988.949 $\pm$ 0.599  $\chi^2$ /NDF: 162757.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_reg\_correction\_mean vs Slug



Right In: -6077.716+/-4139.401  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -355.959+/-3354.343  $\chi^2$ /NDF: 12.4/7

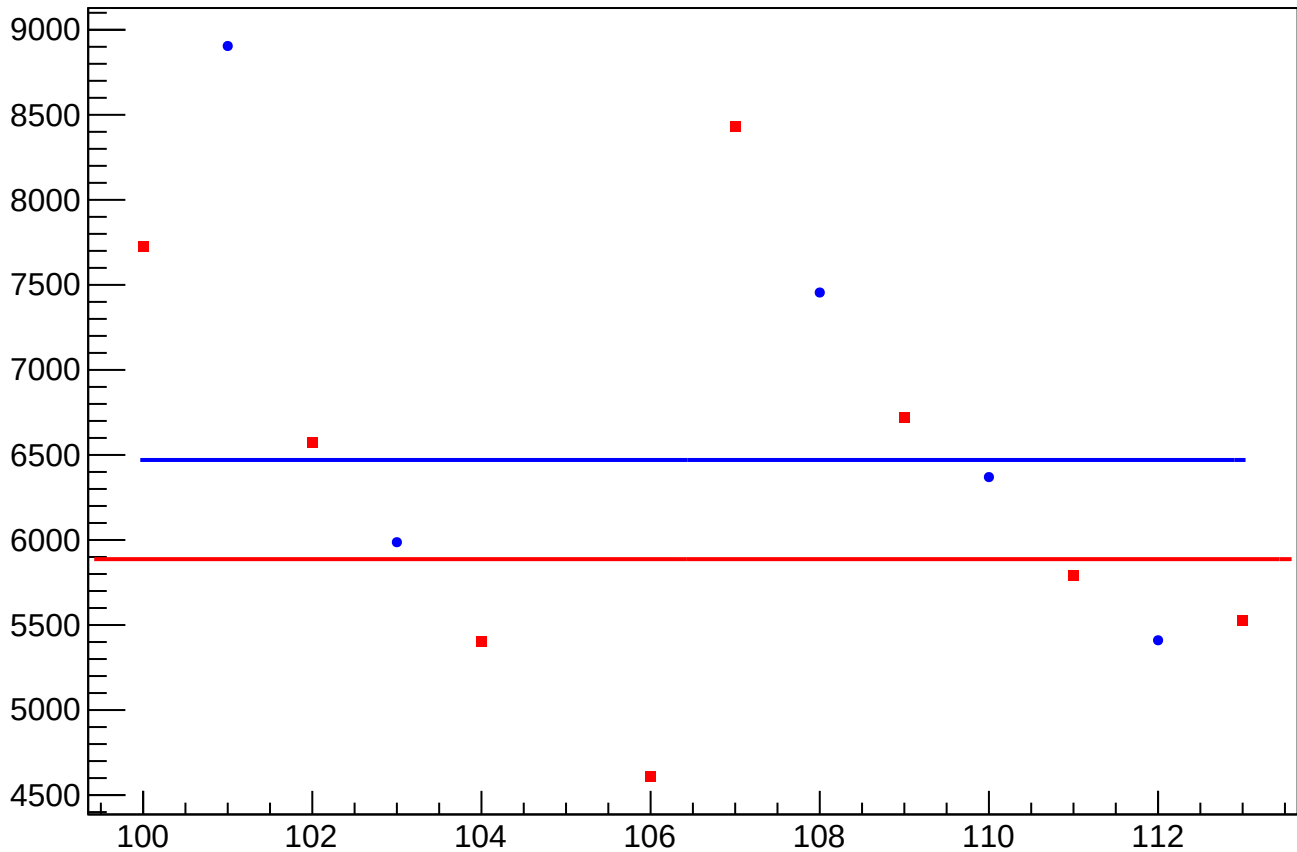
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -2623.923+/-2606.099  $\chi^2$ /NDF: 15.0/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_reg\_correction\_rms vs Slug



Right In: 6470.495+/-2.927  $\chi^2/\text{NDF}$ : 158059.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5887.320+/-2.372  $\chi^2/\text{NDF}$ : 133131.5/7

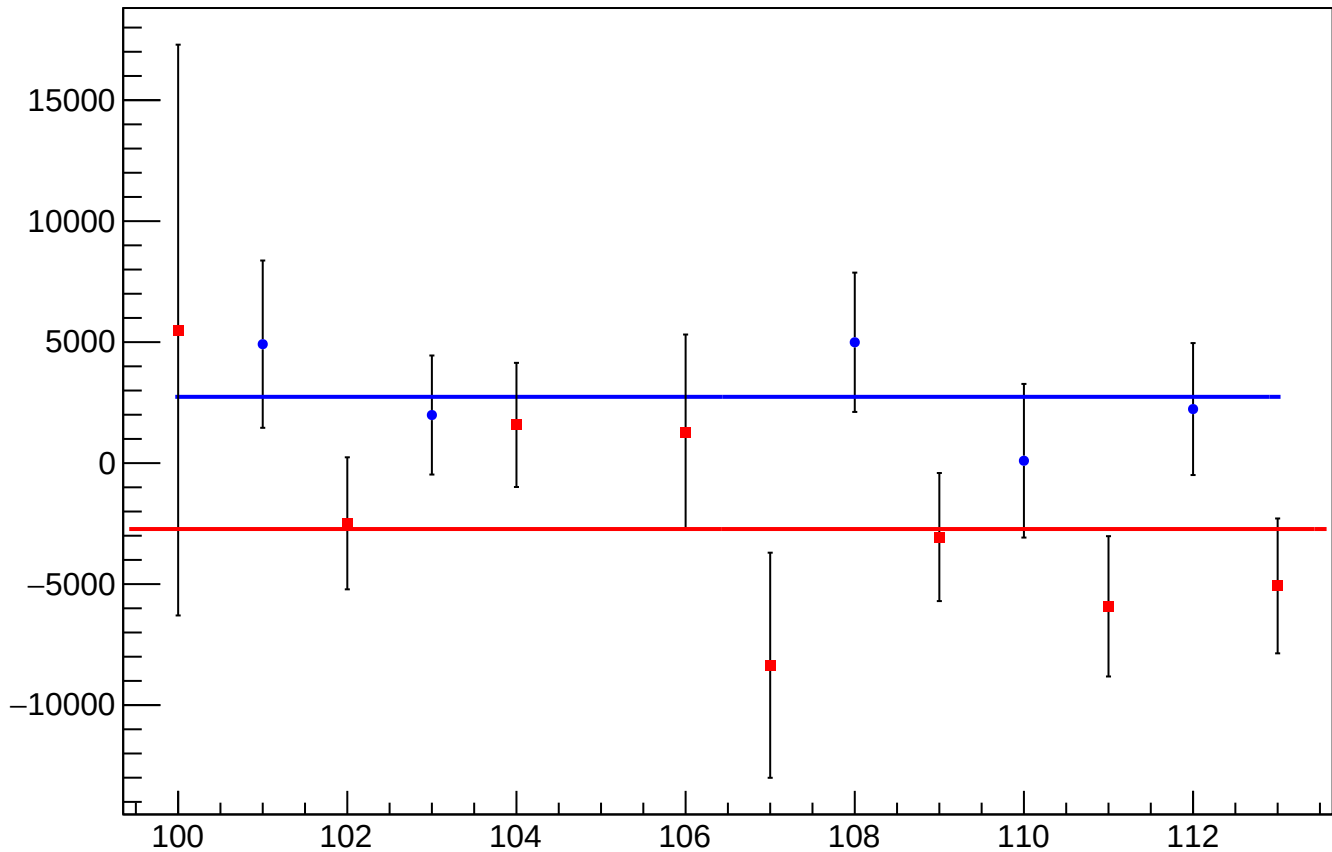
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6118.476+/-1.843  $\chi^2/\text{NDF}$ : 315152.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl2\_mean vs Slug



Right In: 2739.613 $\pm$ 1287.446  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2723.593 $\pm$ 1123.986  $\chi^2$ /NDF: 7.7/7

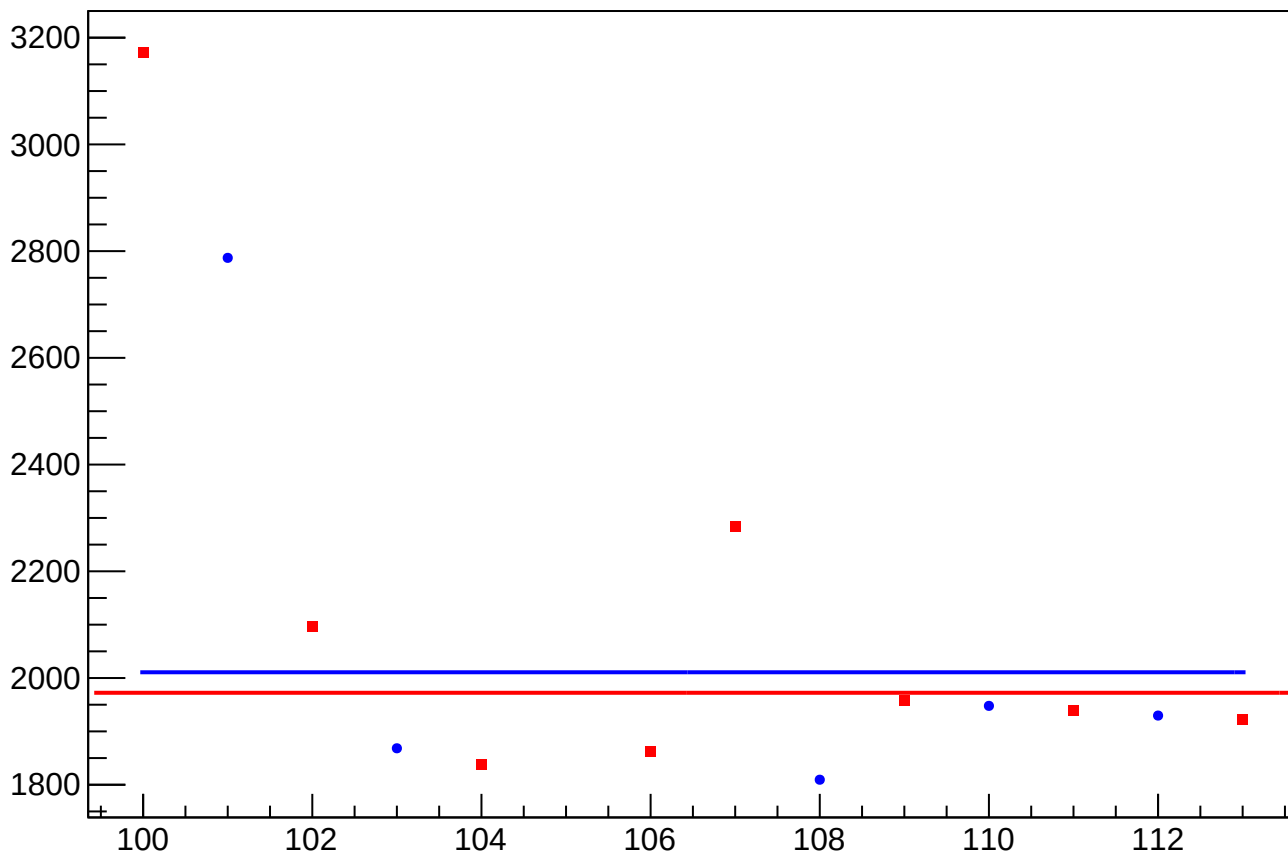
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -360.621 $\pm$ 846.710  $\chi^2$ /NDF: 19.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atl2\_rms vs Slug



Right In: 2010.782 $\pm$ 0.910  $\chi^2$ /NDF: 119996.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1972.354 $\pm$ 0.795  $\chi^2$ /NDF: 41766.5/7

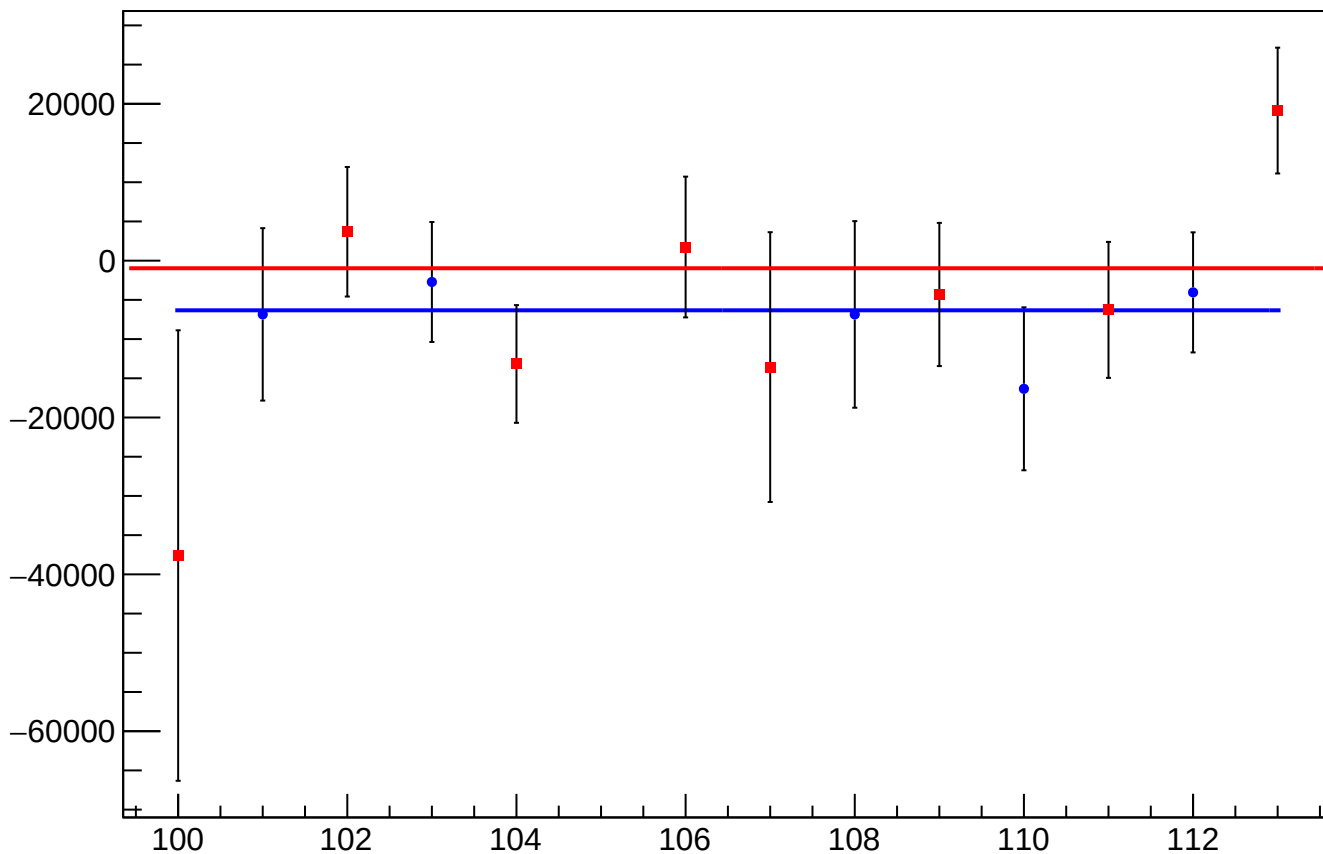
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1988.975 $\pm$ 0.599  $\chi^2$ /NDF: 162773.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_cor\_correction\_mean vs Slug



Right In: -6330.761 $\pm$ 4125.355  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -968.157 $\pm$ 3328.540  $\chi^2$ /NDF: 12.0/7

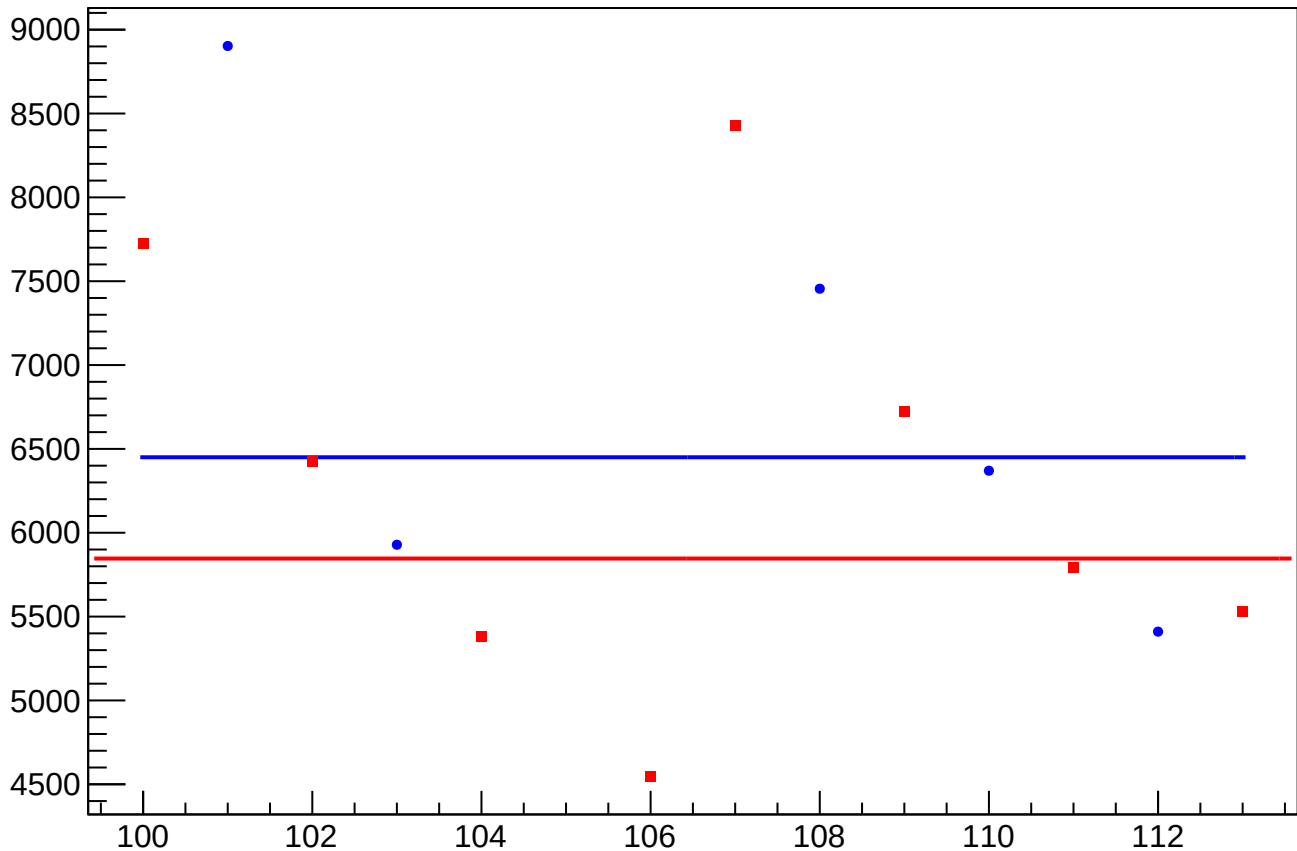
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3082.678 $\pm$ 2590.476  $\chi^2$ /NDF: 14.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_cor\_correction\_rms vs Slug



Right In: 6450.084 $\pm$ 2.917  $\chi^2$ /NDF: 160131.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5846.216 $\pm$ 2.354  $\chi^2$ /NDF: 134954.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

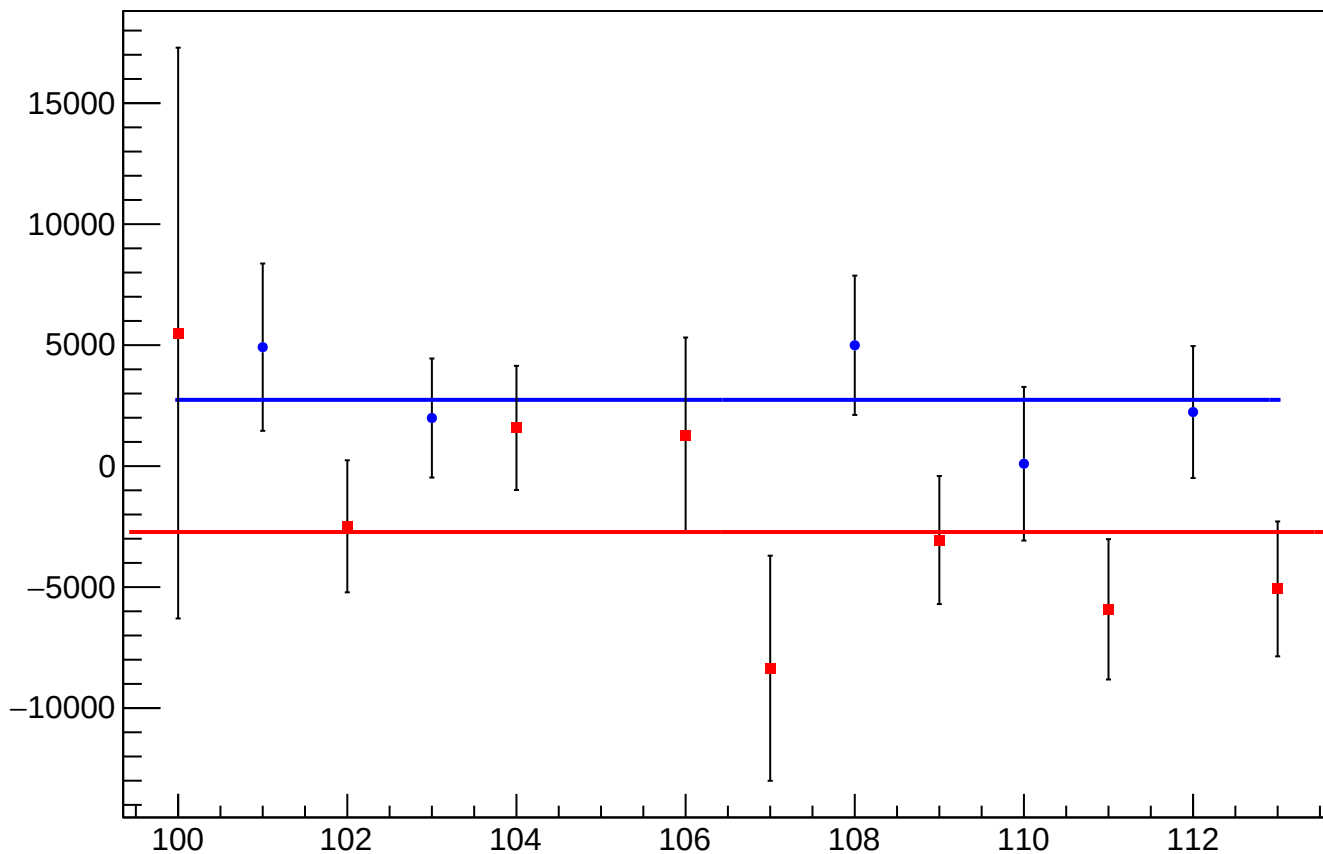
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6084.326 $\pm$ 1.832  $\chi^2$ /NDF: 321042.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_cor\_asym\_atl2\_mean vs Slug



Right In: 2739.613 $\pm$ 1287.446  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2723.593 $\pm$ 1123.986  $\chi^2$ /NDF: 7.7/7

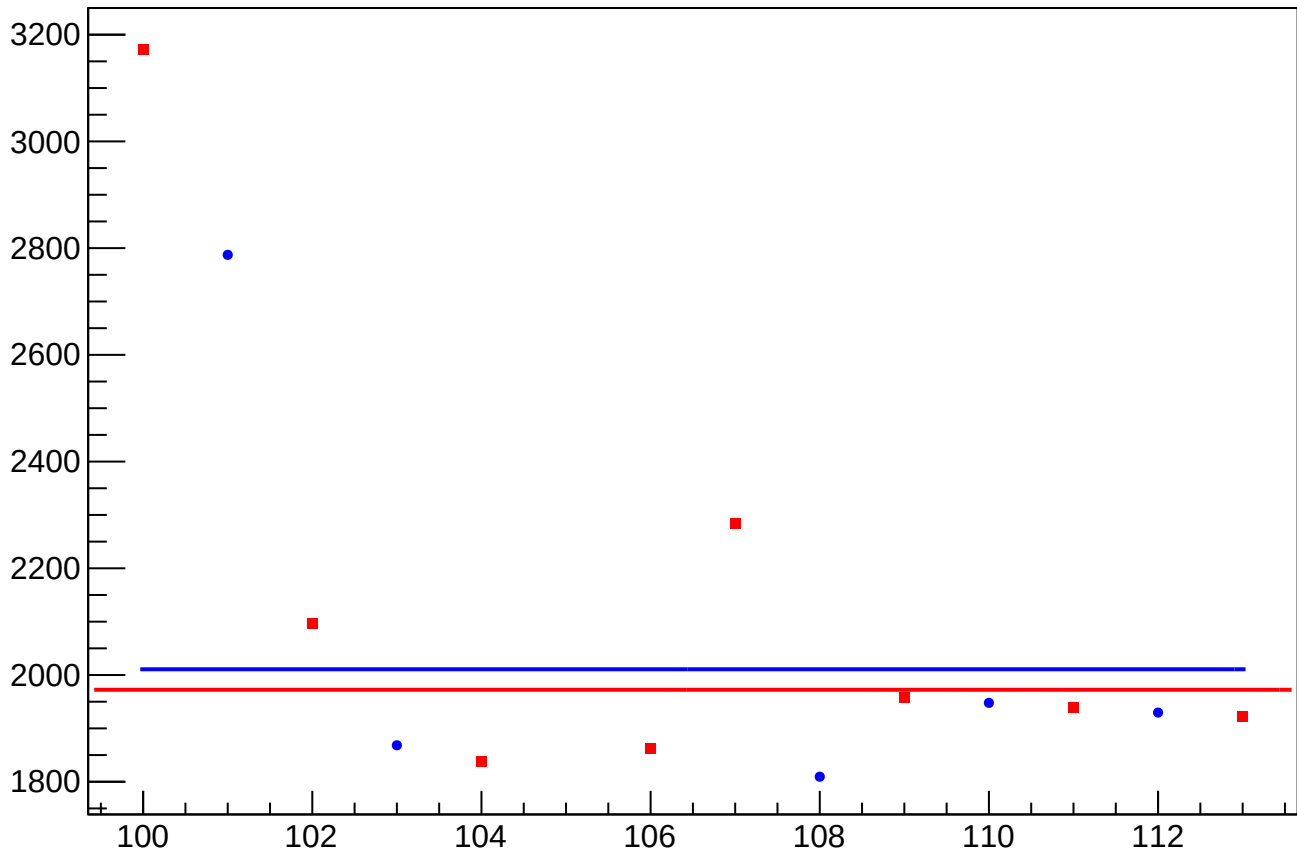
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -360.621 $\pm$ 846.710  $\chi^2$ /NDF: 19.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atl2\_rms vs Slug



Right In: 2010.782 $\pm$ 0.910  $\chi^2$ /NDF: 119996.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1972.354 $\pm$ 0.795  $\chi^2$ /NDF: 41766.5/7

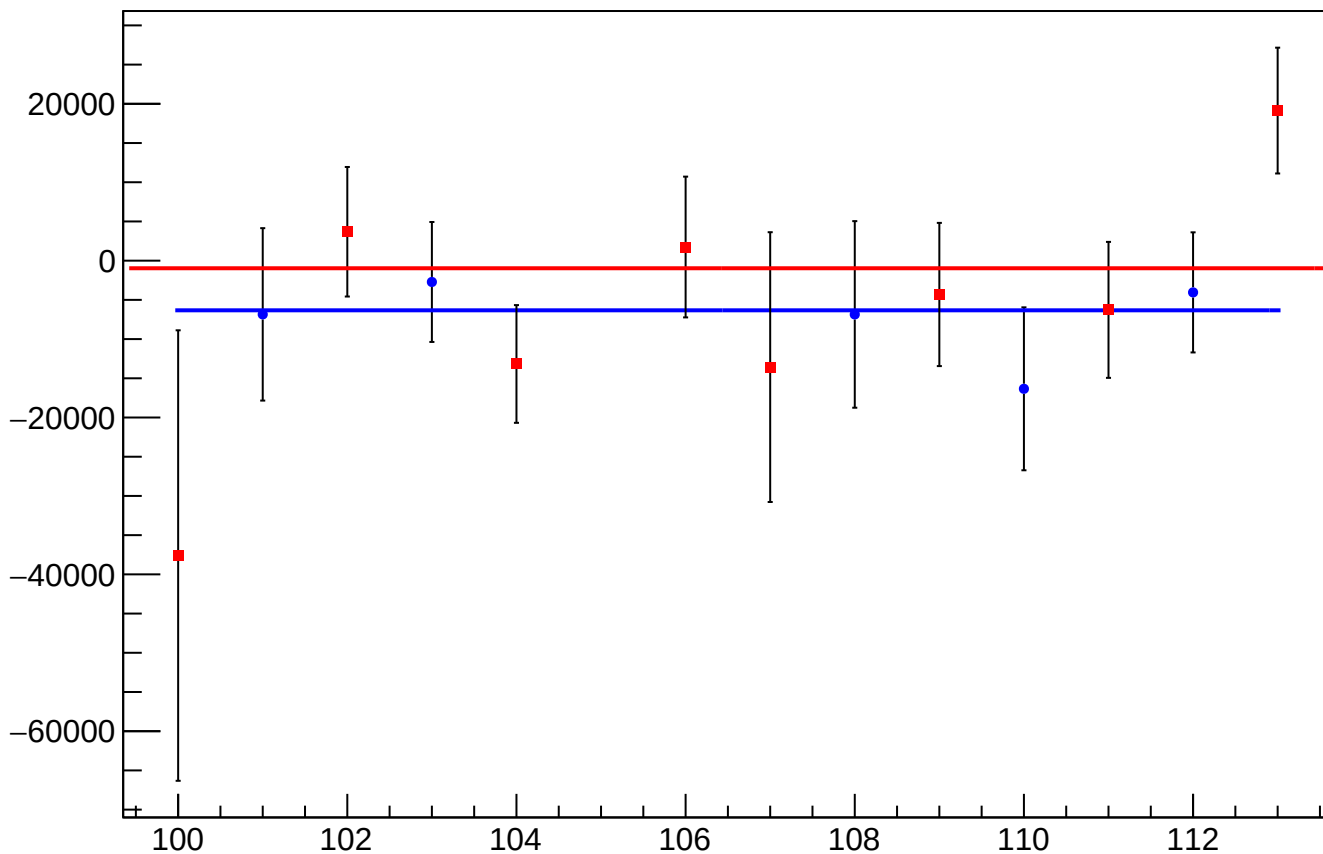
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1988.975 $\pm$ 0.599  $\chi^2$ /NDF: 162773.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_eigen\_cor\_correction\_mean vs Slug



Right In: -6330.761+/-4125.355  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -968.157+/-3328.540  $\chi^2/\text{NDF}$ : 12.0/7

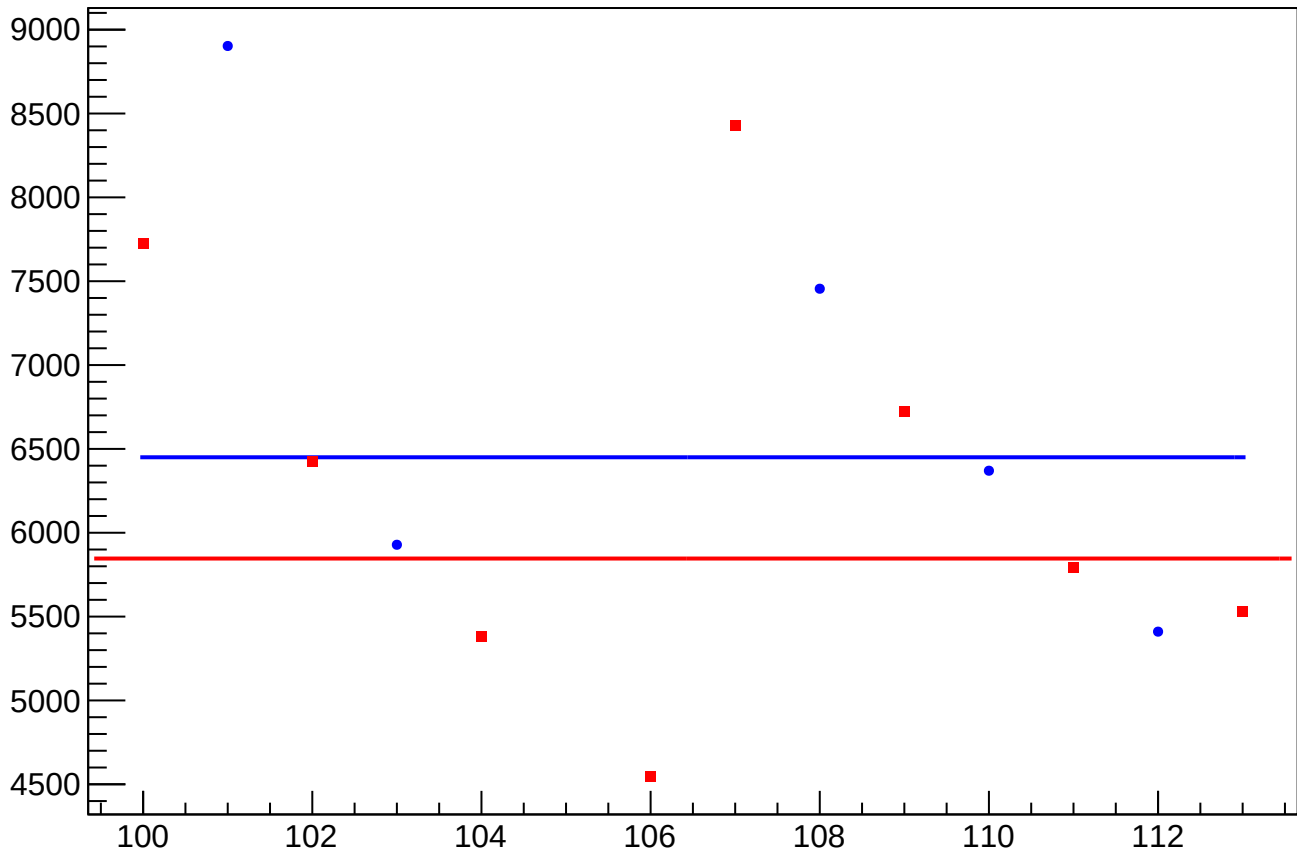
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3082.678+/-2590.476  $\chi^2/\text{NDF}$ : 14.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_eigen\_cor\_correction\_rms vs Slug



Right In: 6450.084 $\pm$ 2.917  $\chi^2$ /NDF: 160131.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5846.216 $\pm$ 2.354  $\chi^2$ /NDF: 134954.4/7

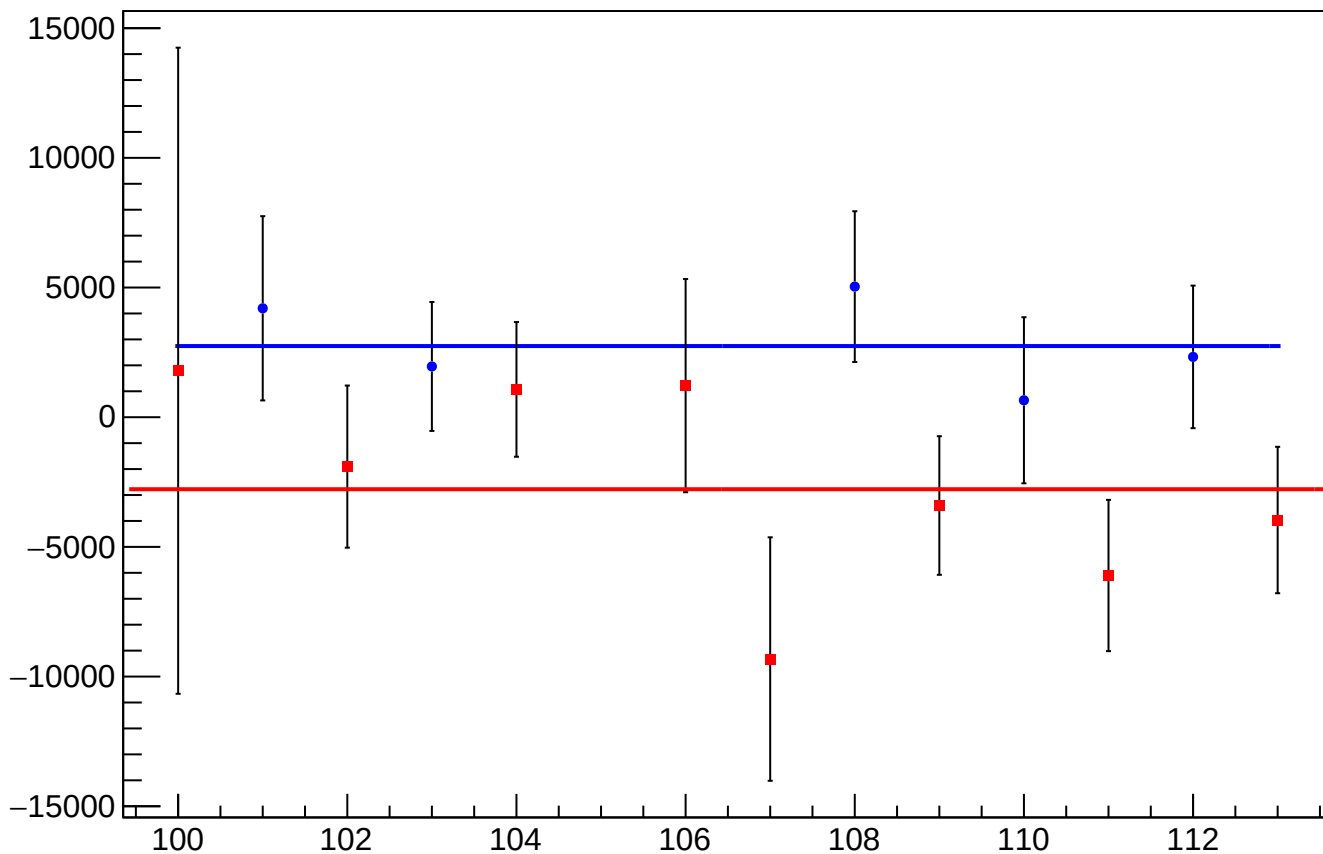
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6084.326 $\pm$ 1.832  $\chi^2$ /NDF: 321042.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atl2\_mean vs Slug



Right In: 2743.794 $\pm$ 1302.462  $\chi^2$ /NDF: 1.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2776.105 $\pm$ 1158.758  $\chi^2$ /NDF: 6.8/7

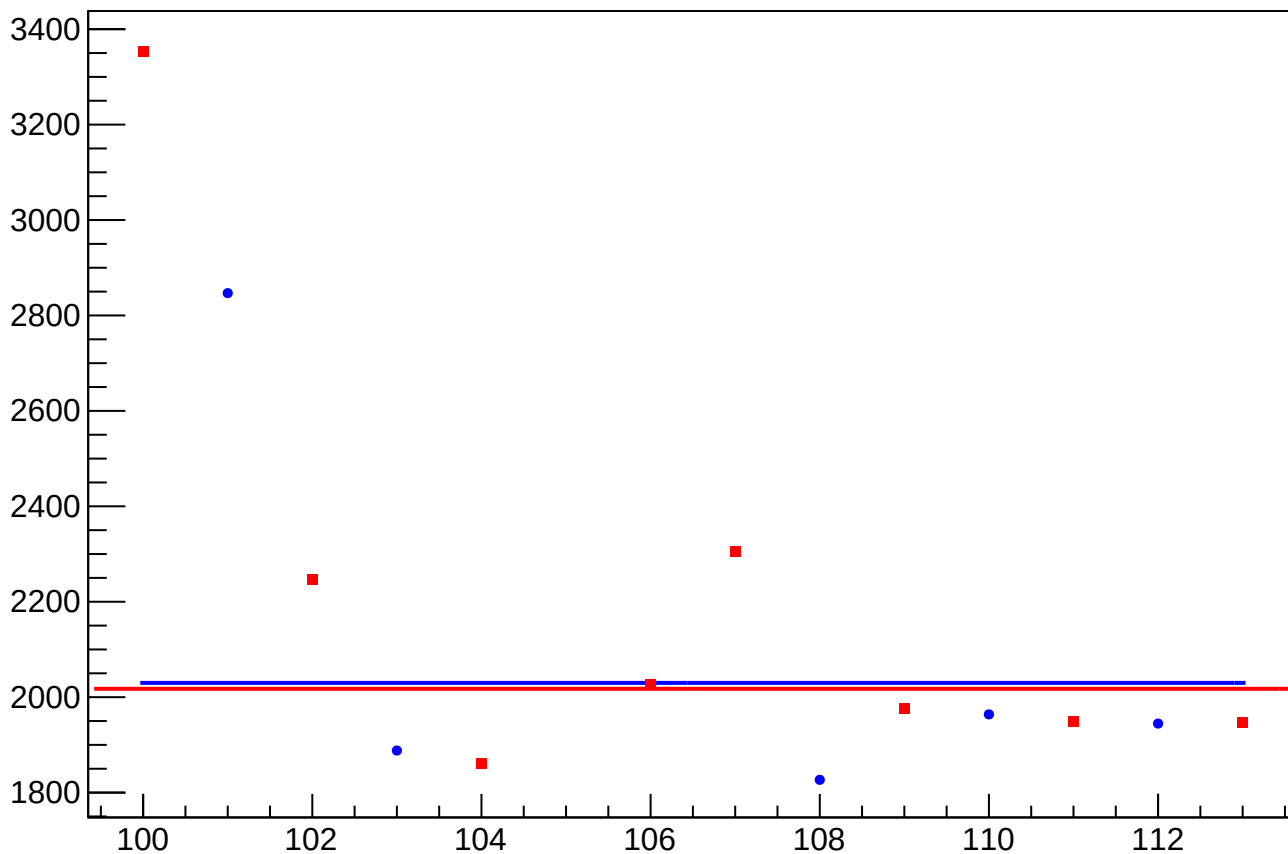
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -337.352 $\pm$ 865.732  $\chi^2$ /NDF: 18.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atl2\_rms vs Slug



Right In: 2029.937 $\pm$ 0.921  $\chi^2$ /NDF: 124816.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2017.566 $\pm$ 0.817  $\chi^2$ /NDF: 51354.4/7

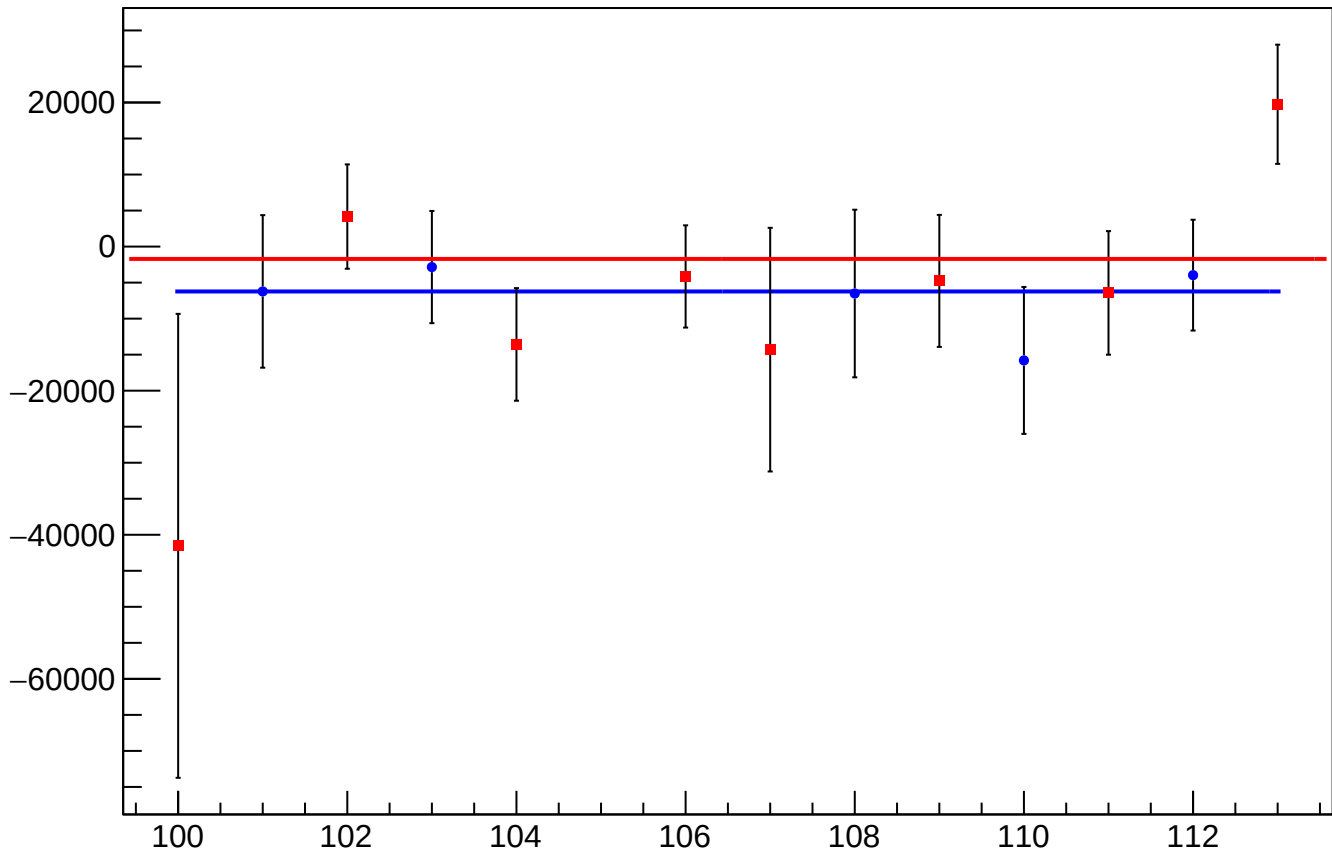
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2023.011 $\pm$ 0.611  $\chi^2$ /NDF: 176271.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_dit\_correction\_mean vs Slug



Right In: -6228.594+/-4105.450  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1712.020+/-3164.142  $\chi^2/\text{NDF}$ : 12.3/7

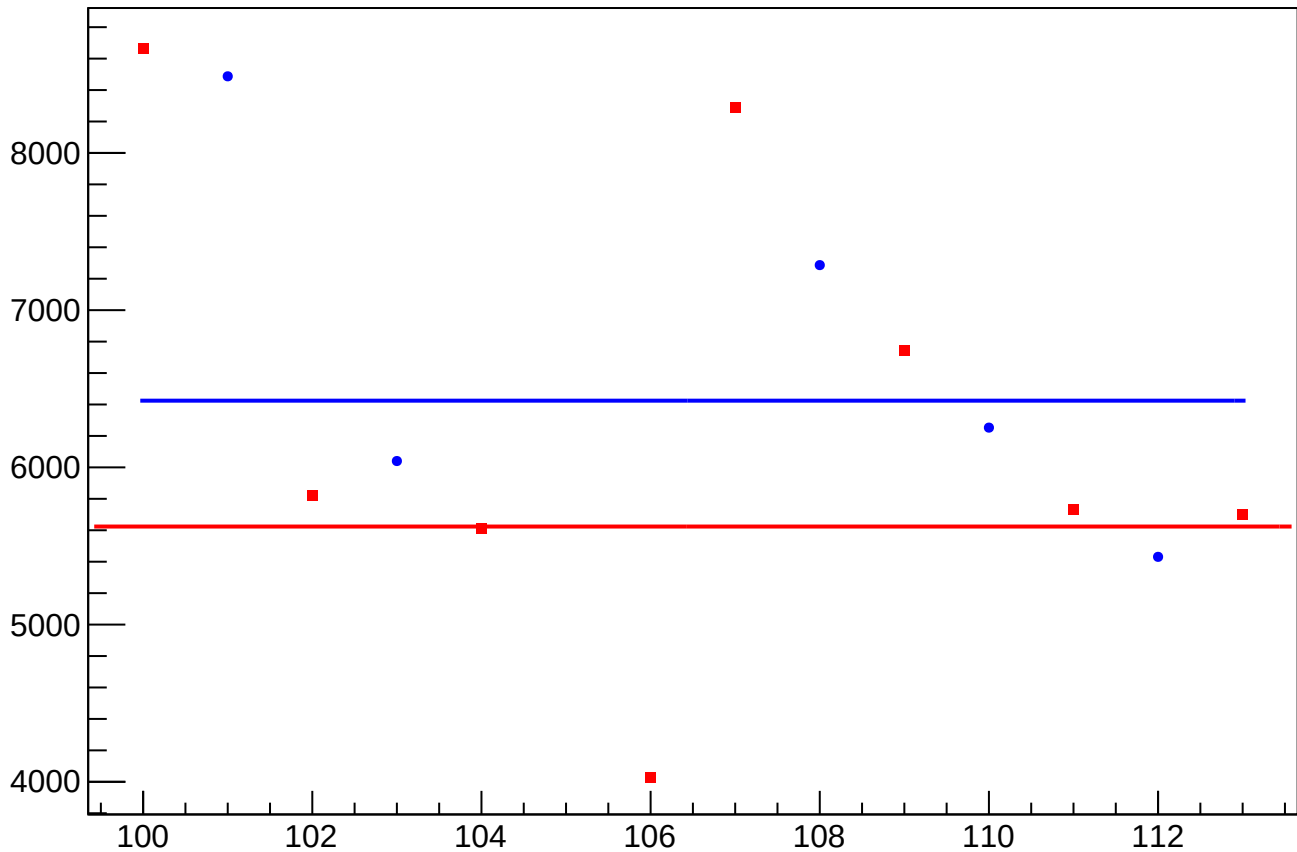
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3395.120+/-2506.173  $\chi^2/\text{NDF}$ : 14.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_dit\_correction\_rms vs Slug



Right In: 6424.319+/-2.903  $\chi^2/\text{NDF}$ : 125738.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5623.690+/-2.237  $\chi^2/\text{NDF}$ : 200292.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

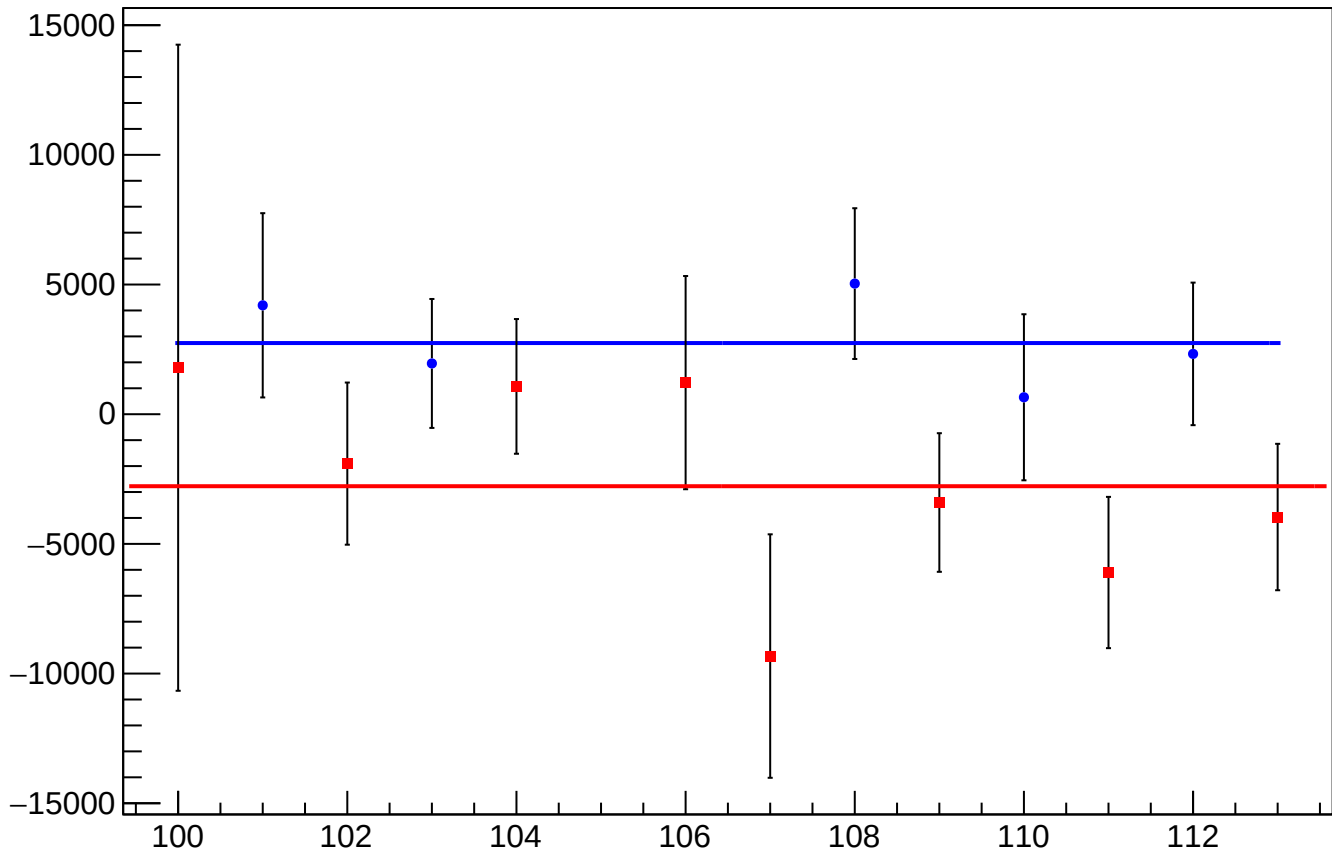
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5922.044+/-1.772  $\chi^2/\text{NDF}$ : 373749.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_atl2\_mean vs Slug



Right In: 2743.812 $\pm$ 1302.462  $\chi^2$ /NDF: 1.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2776.120 $\pm$ 1158.758  $\chi^2$ /NDF: 6.8/7

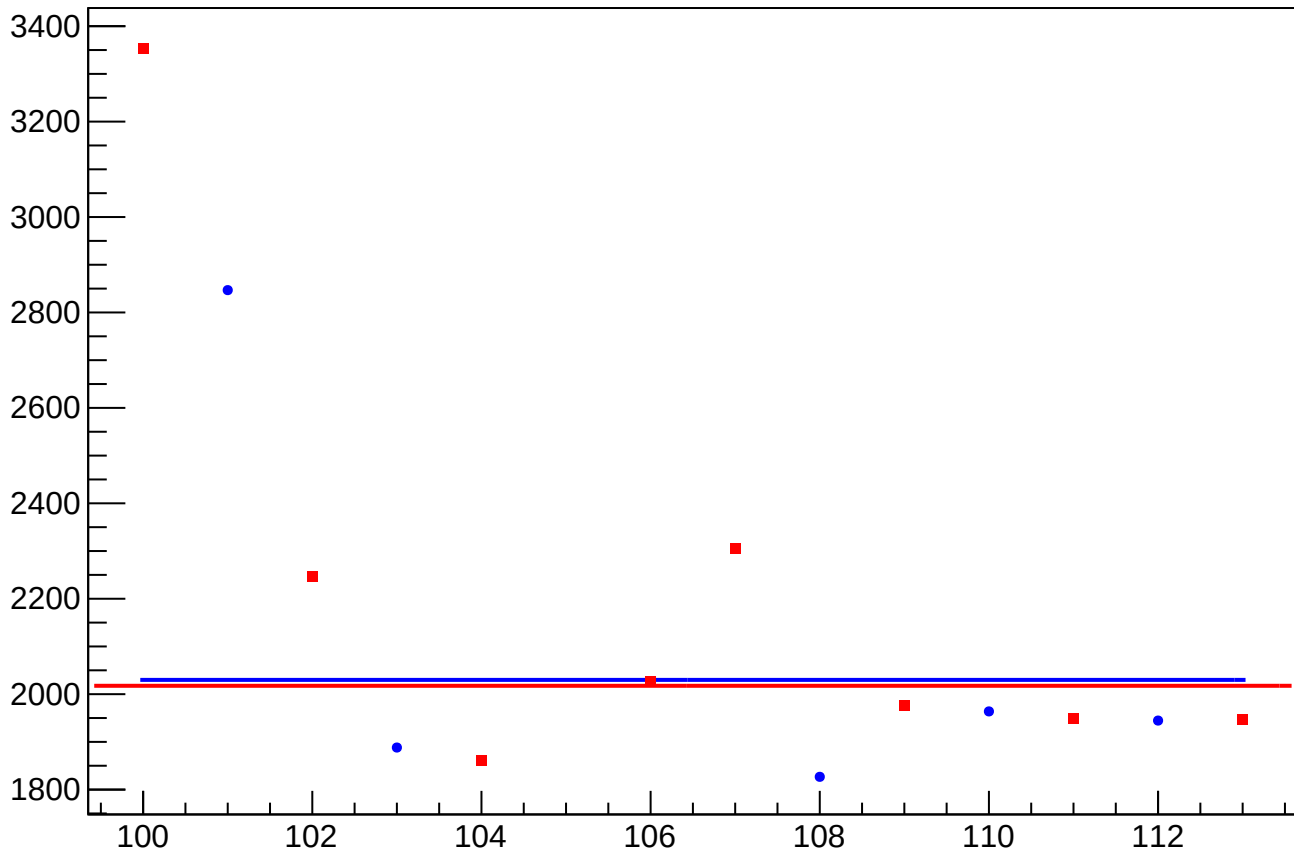
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -337.354 $\pm$ 865.732  $\chi^2$ /NDF: 18.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atl2\_rms vs Slug



Right In: 2029.938 $\pm$ 0.921  $\chi^2$ /NDF: 124815.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2017.566 $\pm$ 0.817  $\chi^2$ /NDF: 51354.4/7

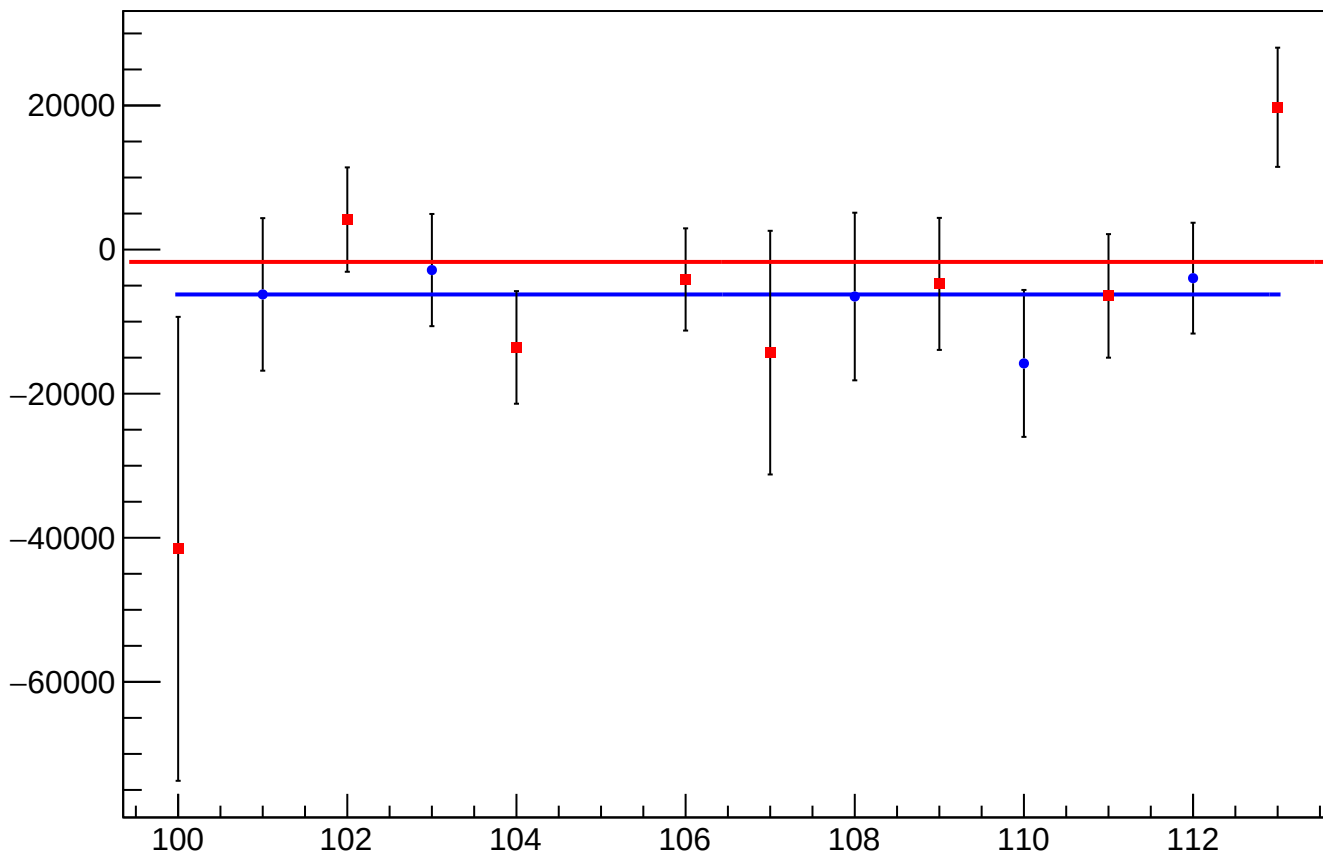
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2023.011 $\pm$ 0.611  $\chi^2$ /NDF: 176271.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_eigen\_dit\_correction\_mean vs Slug



Right In: -6228.582+/-4105.441  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1712.022+/-3164.136  $\chi^2/\text{NDF}$ : 12.3/7

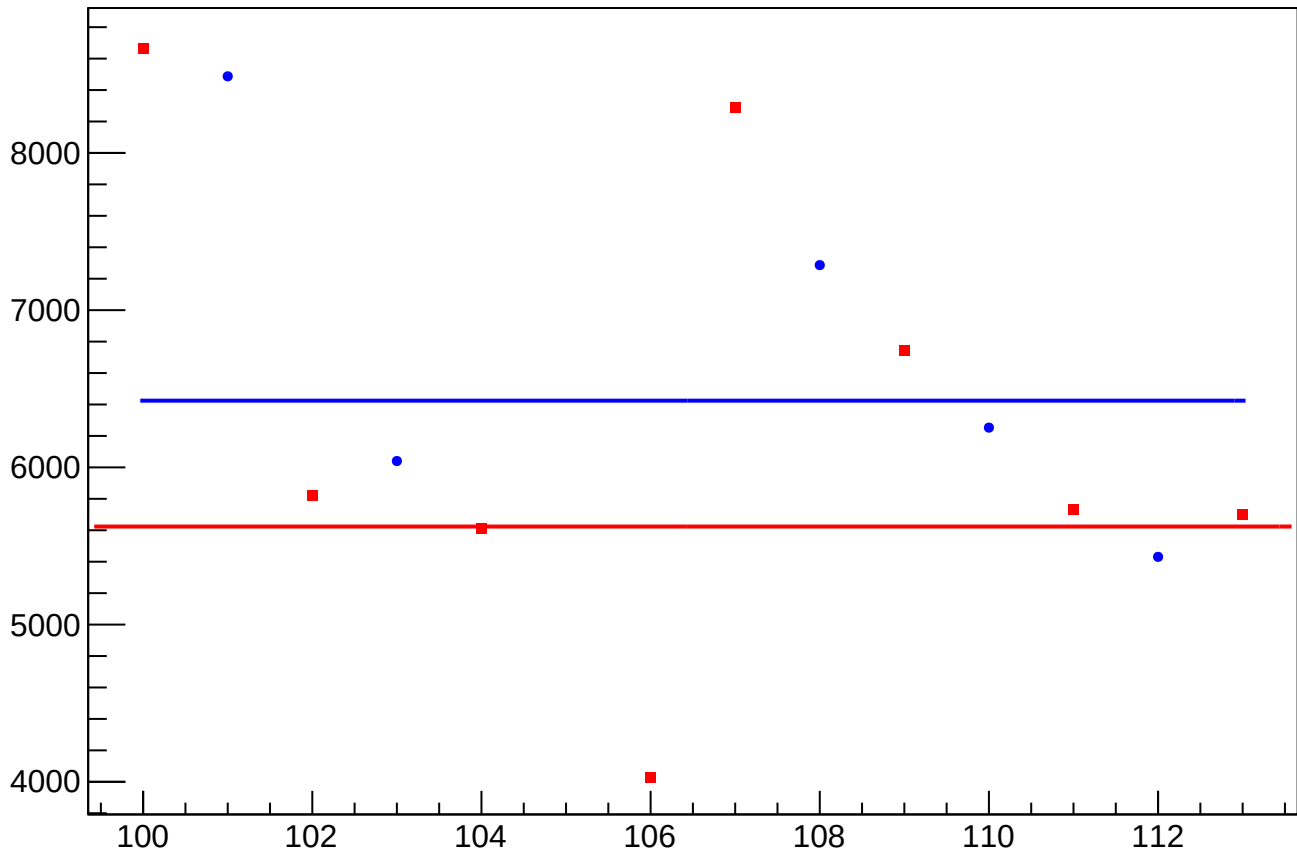
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3395.117+/-2506.168  $\chi^2/\text{NDF}$ : 14.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_eigen\_dit\_correction\_rms vs Slug



Right In: 6424.306+/-2.903  $\chi^2/\text{NDF}$ : 125738.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5623.678+/-2.237  $\chi^2/\text{NDF}$ : 200293.9/7

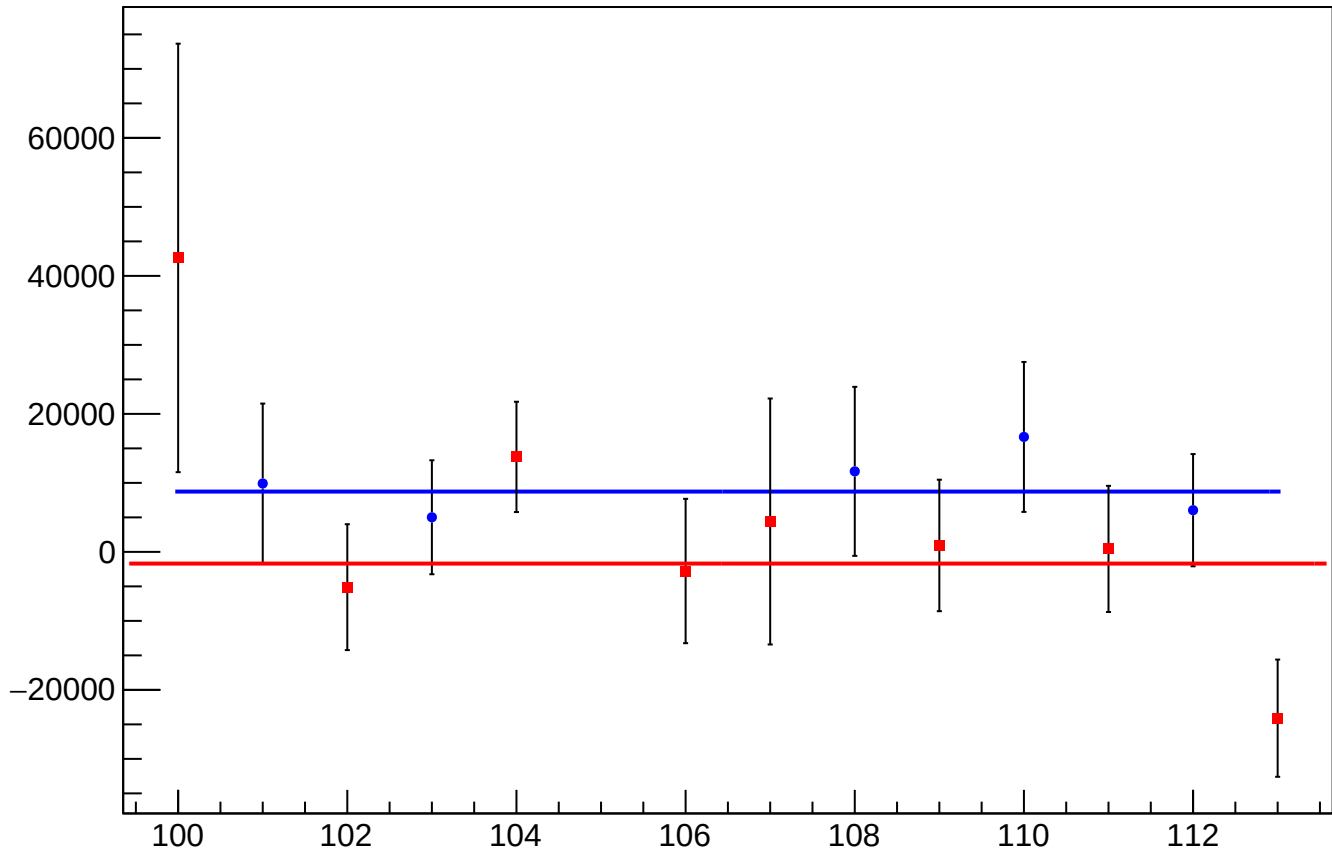
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5922.032+/-1.772  $\chi^2/\text{NDF}$ : 373750.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_mean vs Slug



Right In: 8741.497+/-4369.326  $\chi^2/\text{NDF}$ : 0.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1695.241+/-3584.482  $\chi^2/\text{NDF}$ : 13.1/7

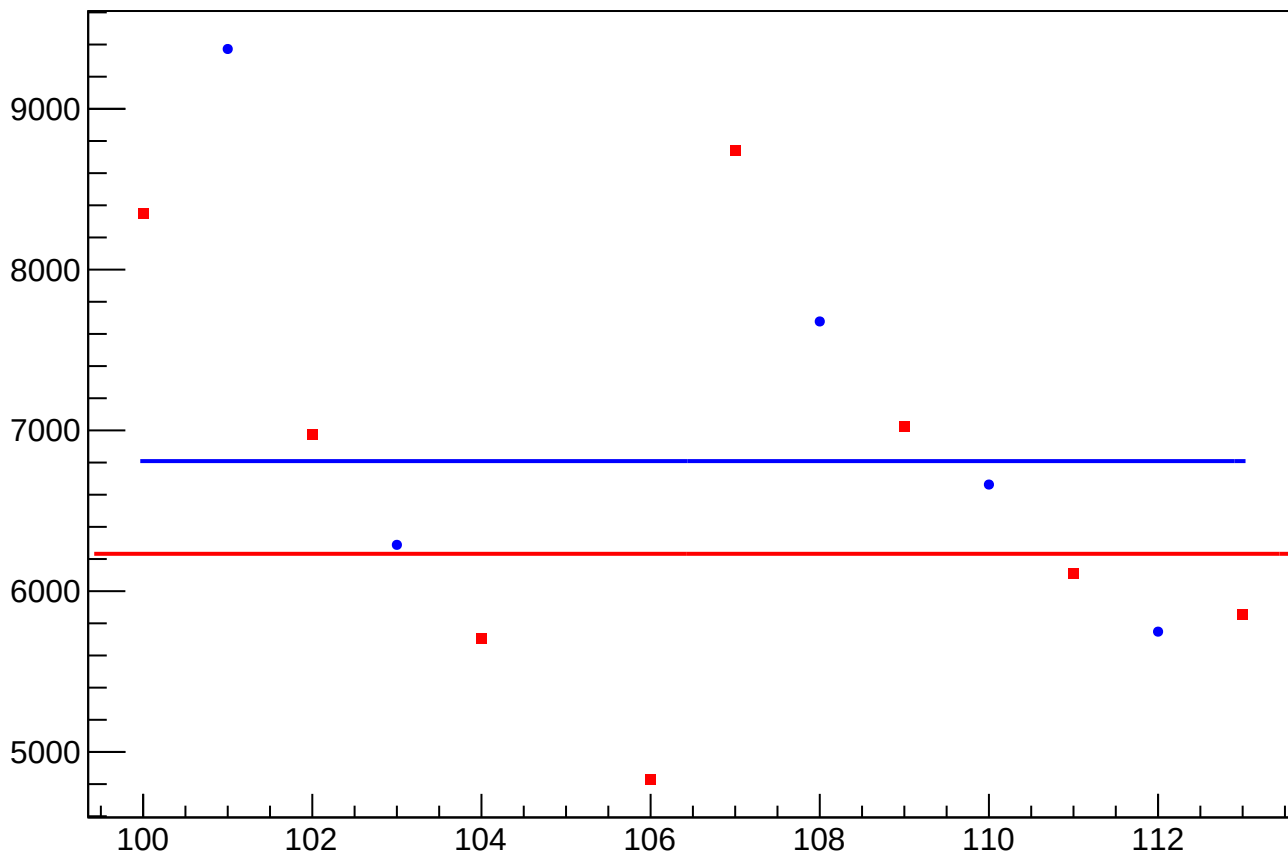
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2503.211+/-2771.256  $\chi^2/\text{NDF}$ : 17.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_rms vs Slug



Right In: 6809.049 $\pm$ 3.090  $\chi^2$ /NDF: 150412.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6232.404 $\pm$ 2.535  $\chi^2$ /NDF: 124922.5/7

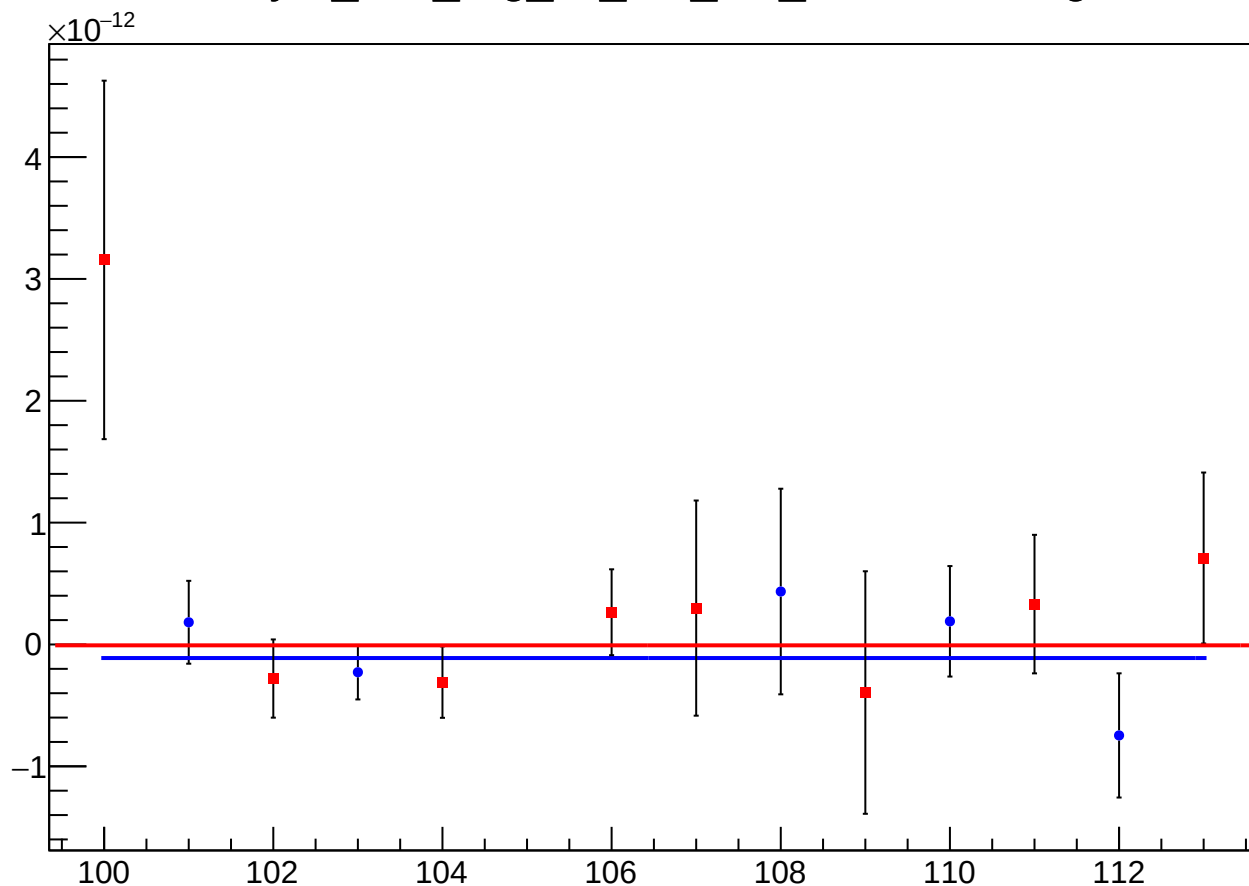
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6464.374 $\pm$ 1.960  $\chi^2$ /NDF: 296156.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 3.4/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 8.7/7

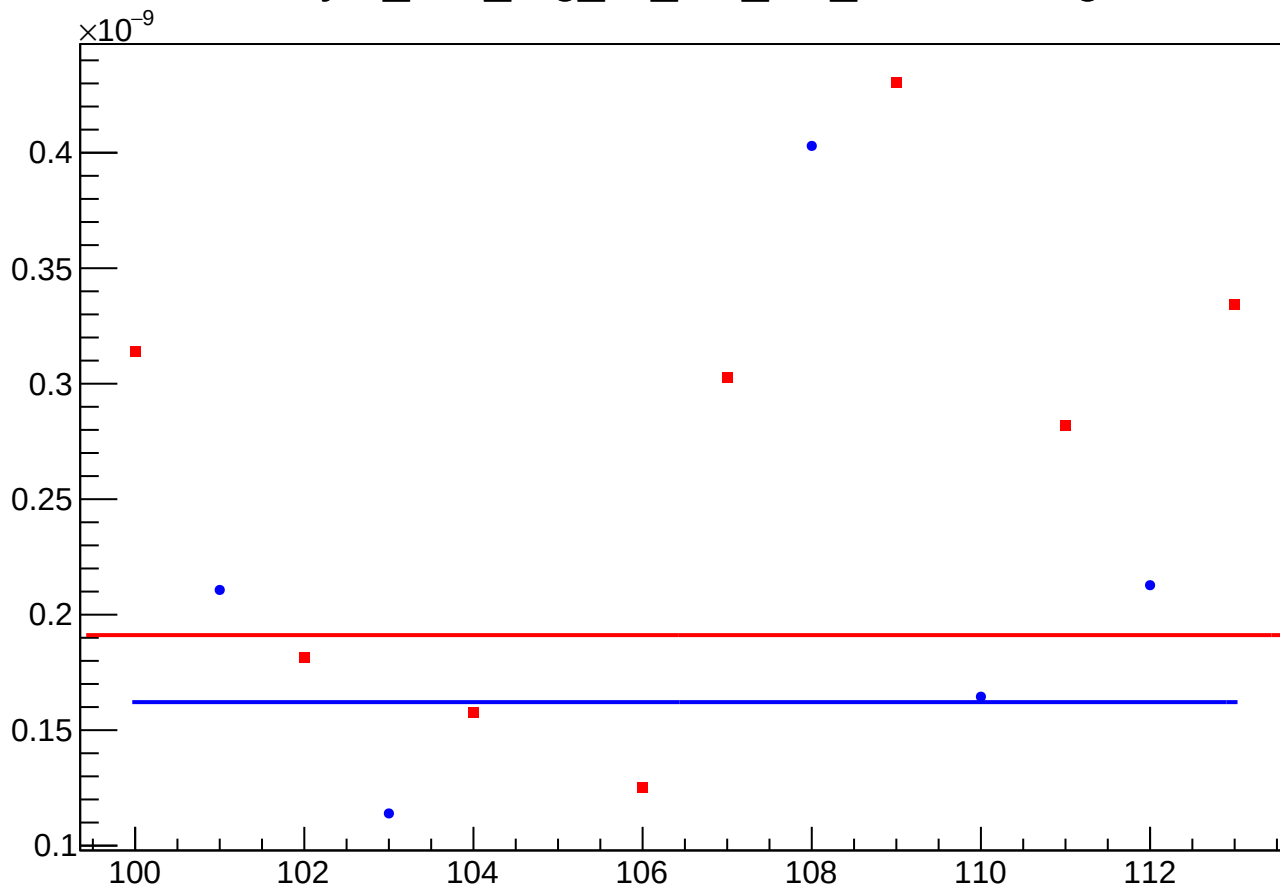
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 12.3/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 316503.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 393582.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

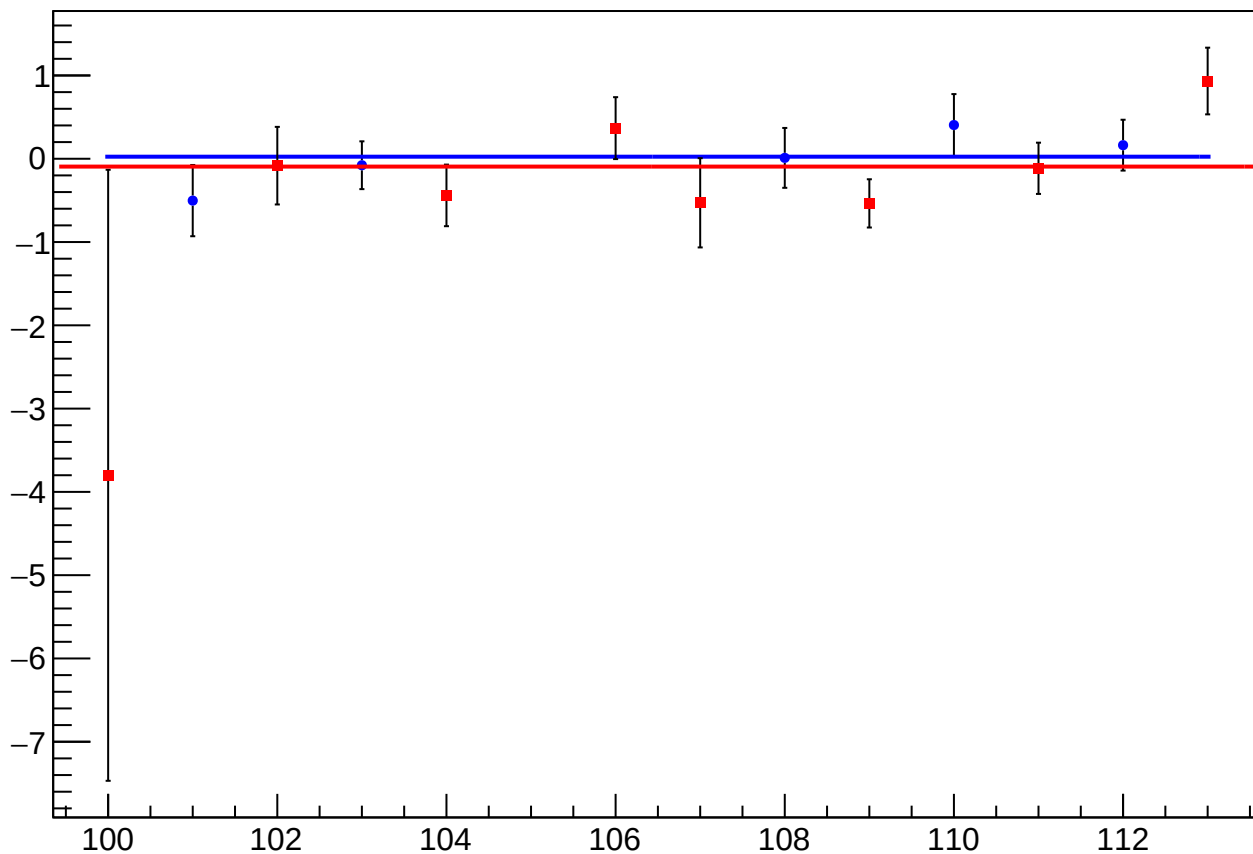
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 742085.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl2\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.025 $\pm$ 0.152  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.094 $\pm$ 0.139  $\chi^2$ /NDF: 13.0/7

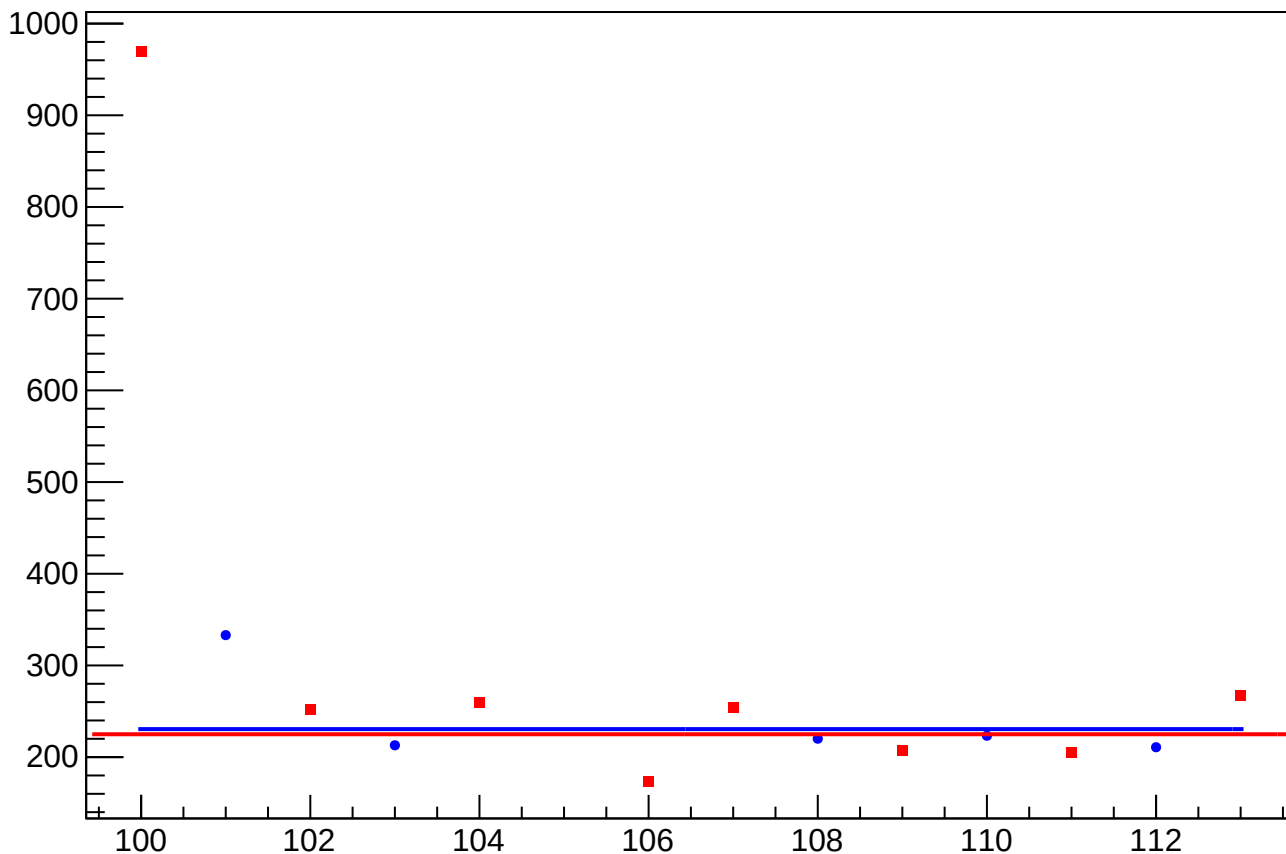
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.040 $\pm$ 0.103  $\chi^2$ /NDF: 16.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 230.577 $\pm$ 0.107  $\chi^2$ /NDF: 133172.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 224.958 $\pm$ 0.099  $\chi^2$ /NDF: 188573.7/7

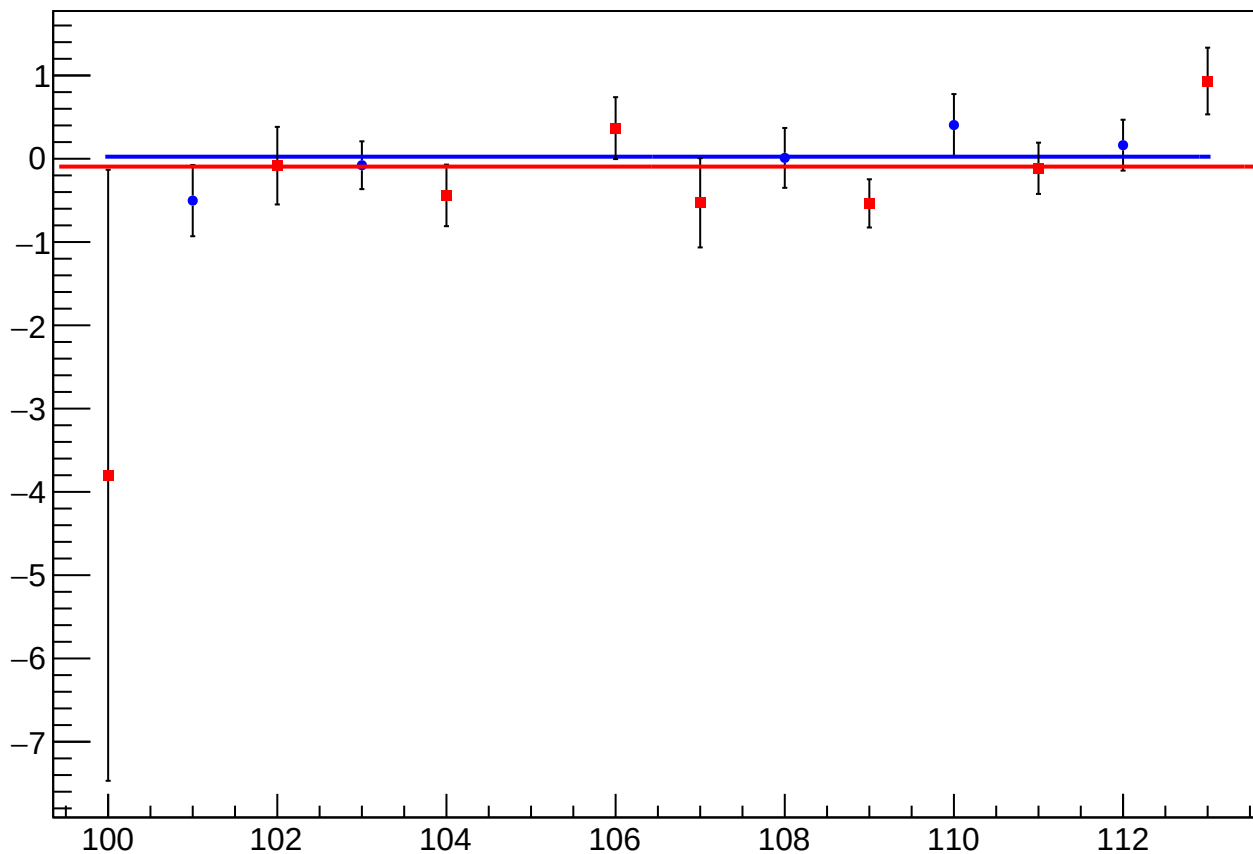
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 227.527 $\pm$ 0.073  $\chi^2$ /NDF: 323231.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $0.025 \pm 0.152$   $\chi^2/\text{NDF}: 2.9/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.094 \pm 0.139$   $\chi^2/\text{NDF}: 13.0/7$

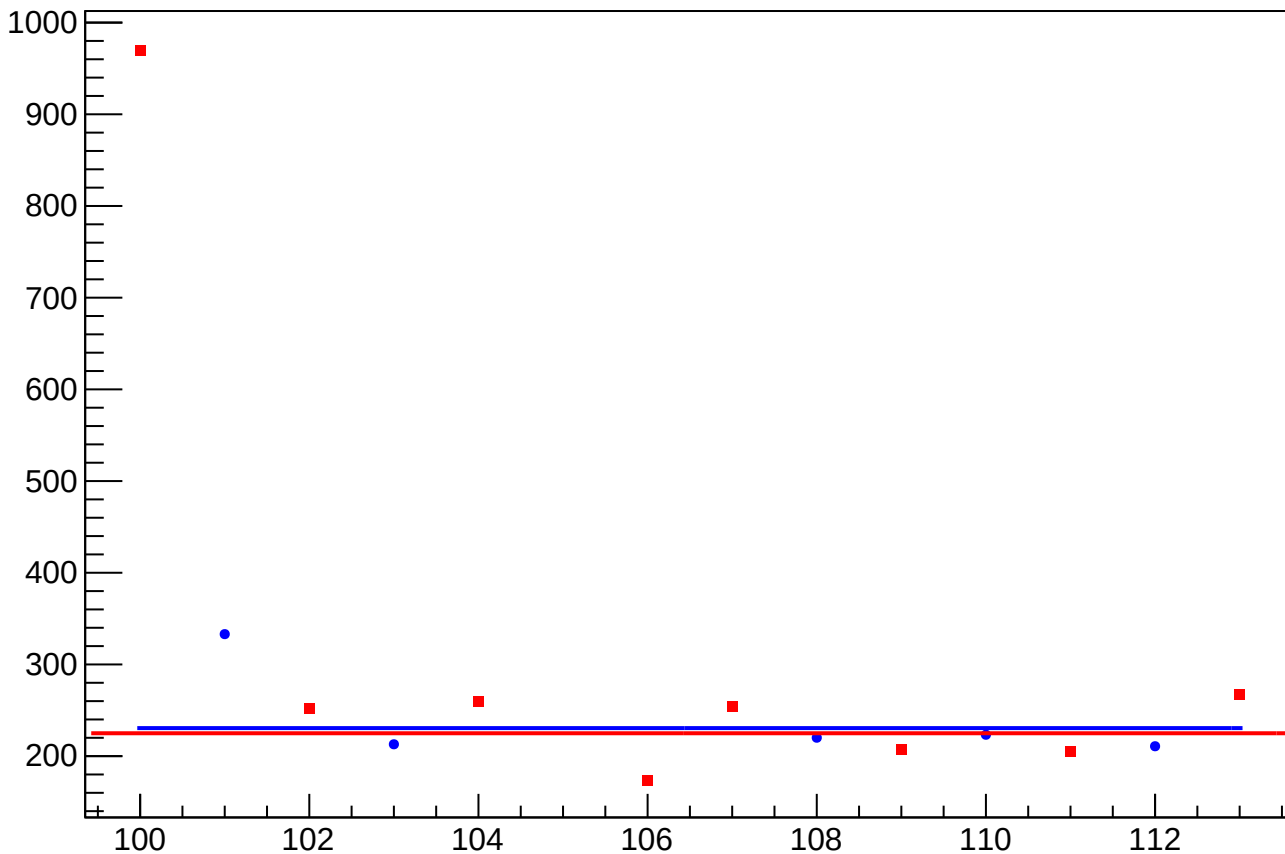
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.040 \pm 0.103$   $\chi^2/\text{NDF}: 16.2/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# asym\_atl2\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 230.577 $\pm$ 0.107  $\chi^2$ /NDF: 133172.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 224.958 $\pm$ 0.099  $\chi^2$ /NDF: 188573.7/7

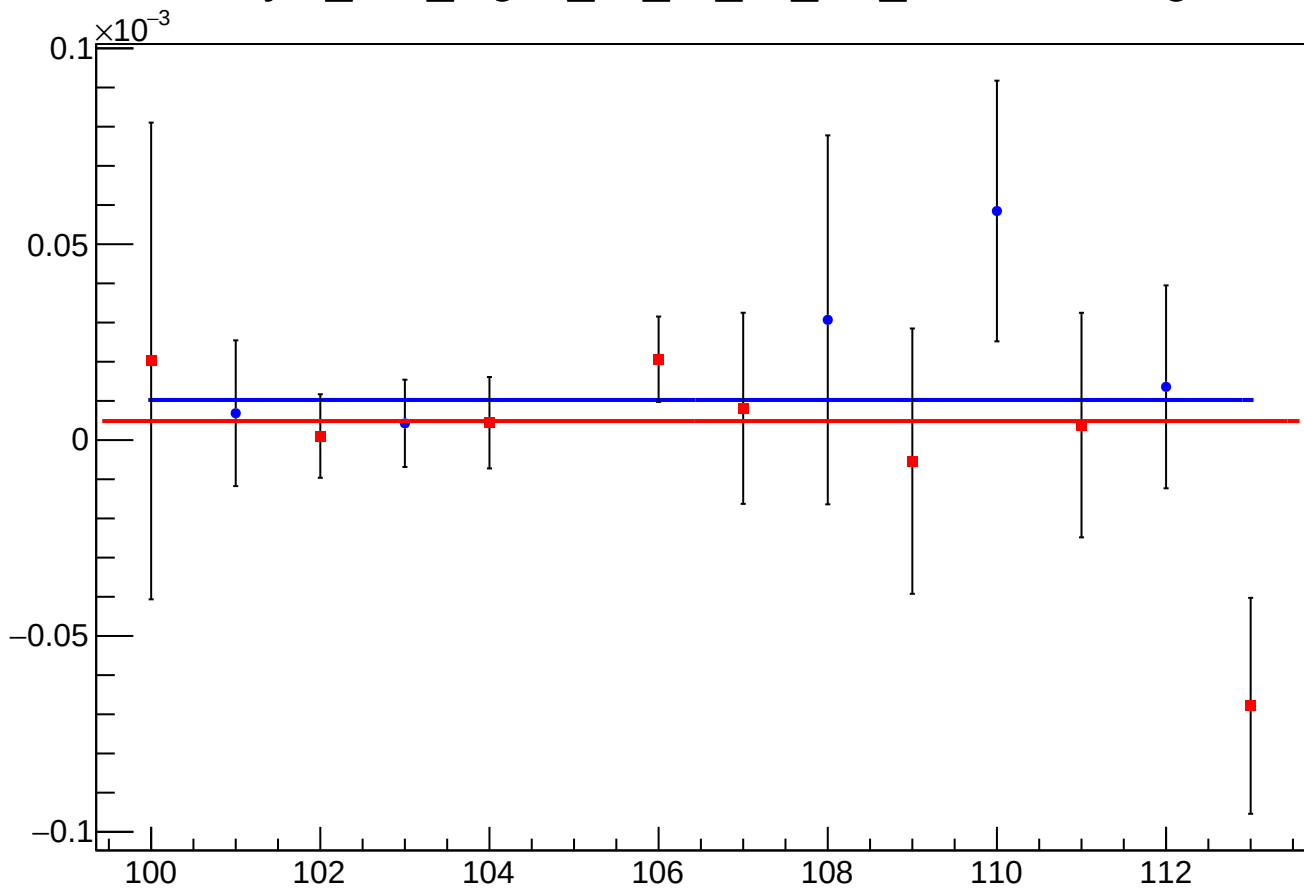
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 227.527 $\pm$ 0.073  $\chi^2$ /NDF: 323231.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl2\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.4/7

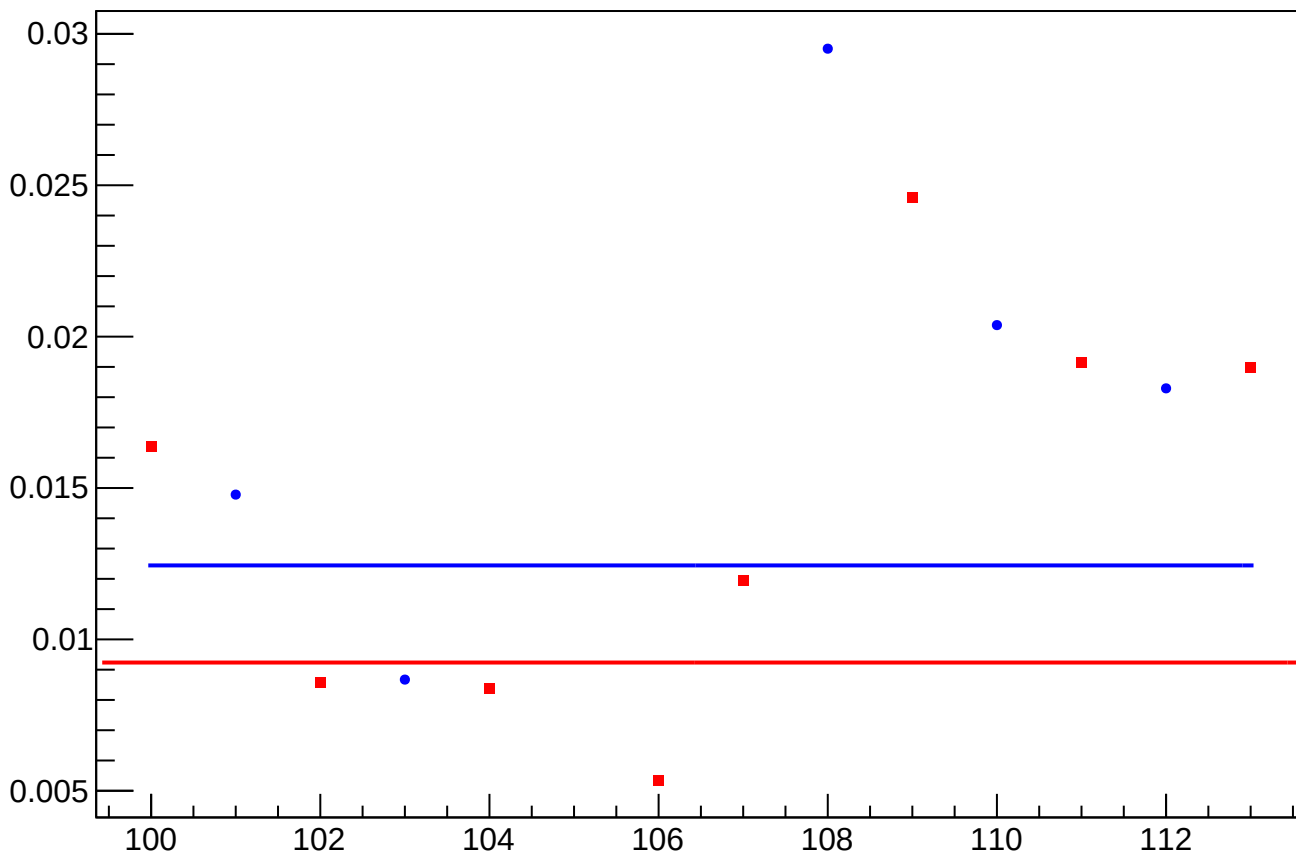
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 739091.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 1227375.6/7

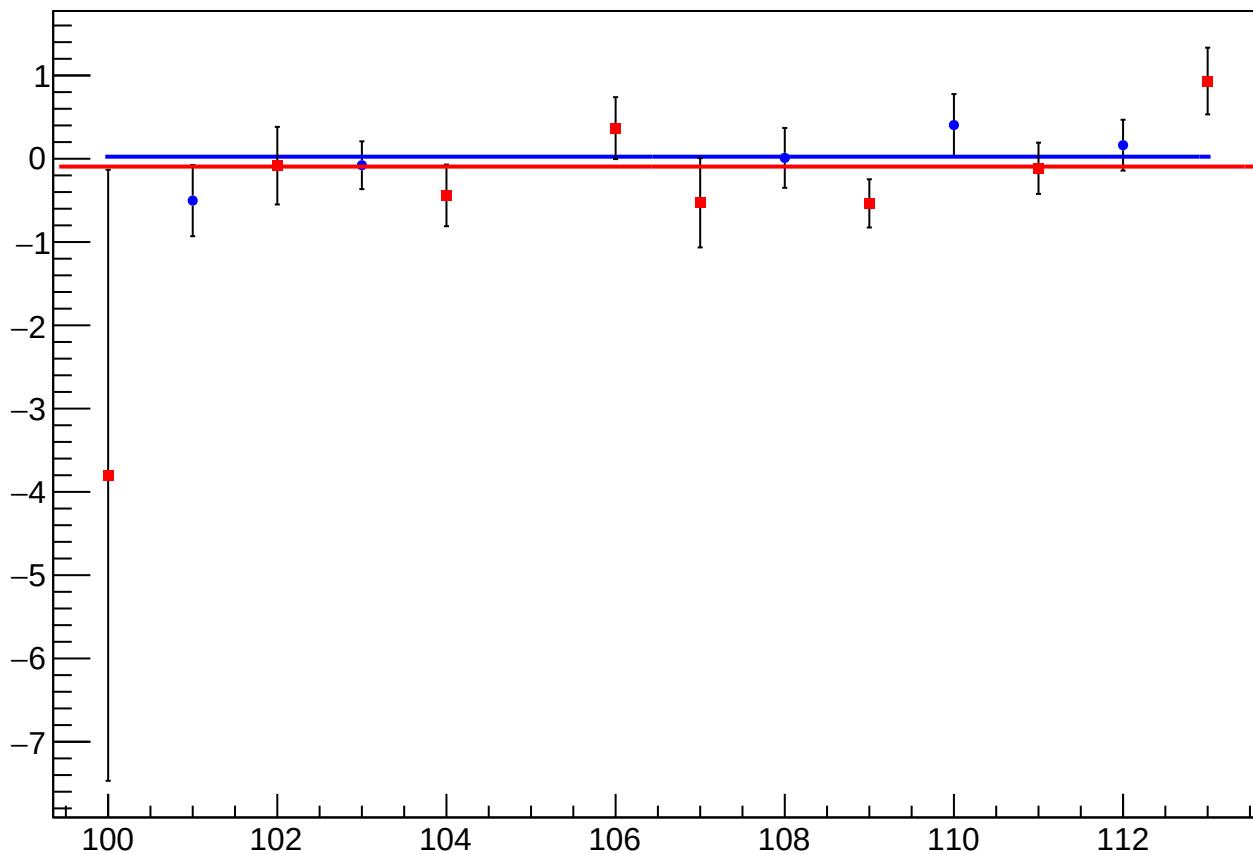
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 2160670.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.025 $\pm$ 0.152  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.094 $\pm$ 0.139  $\chi^2$ /NDF: 13.0/7

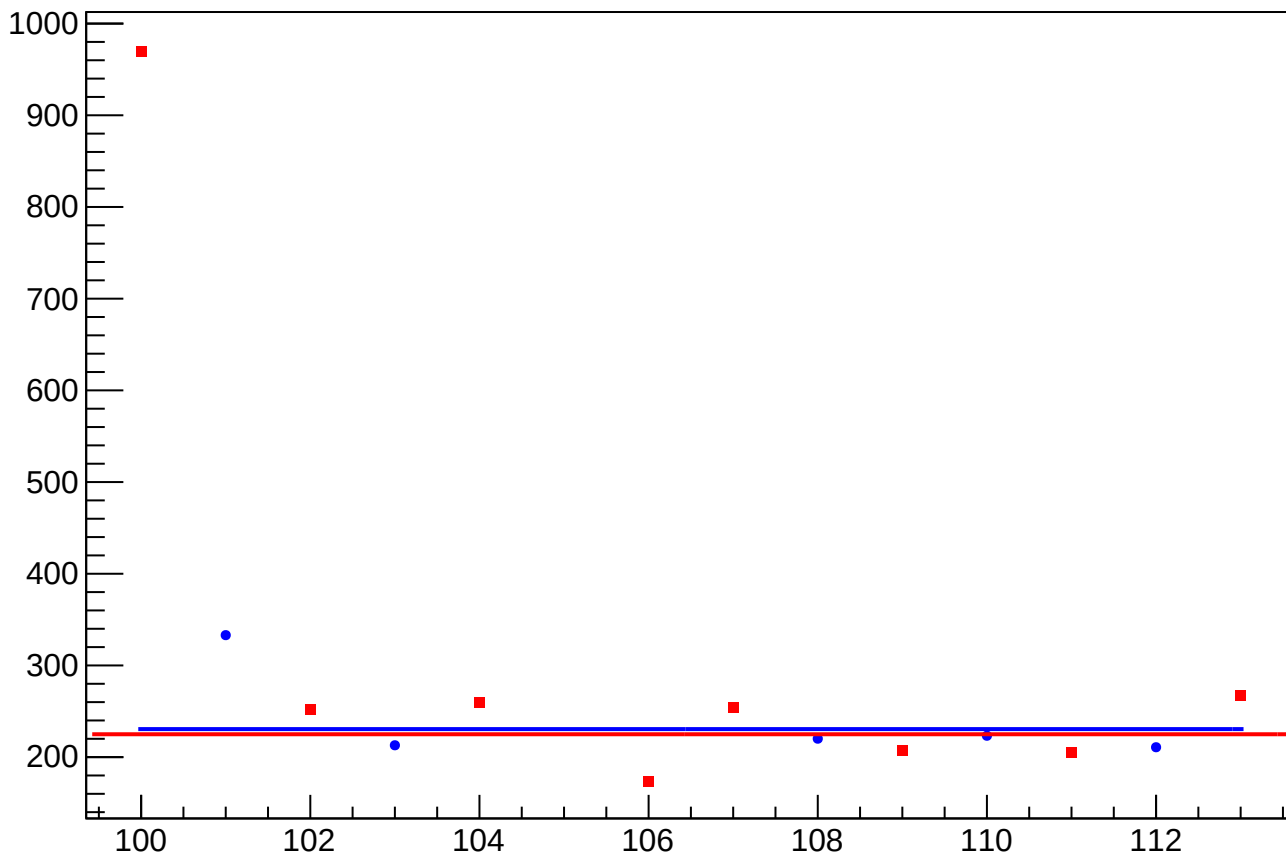
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.040 $\pm$ 0.103  $\chi^2$ /NDF: 16.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 230.584 $\pm$ 0.107  $\chi^2$ /NDF: 133147.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 224.961 $\pm$ 0.099  $\chi^2$ /NDF: 188560.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

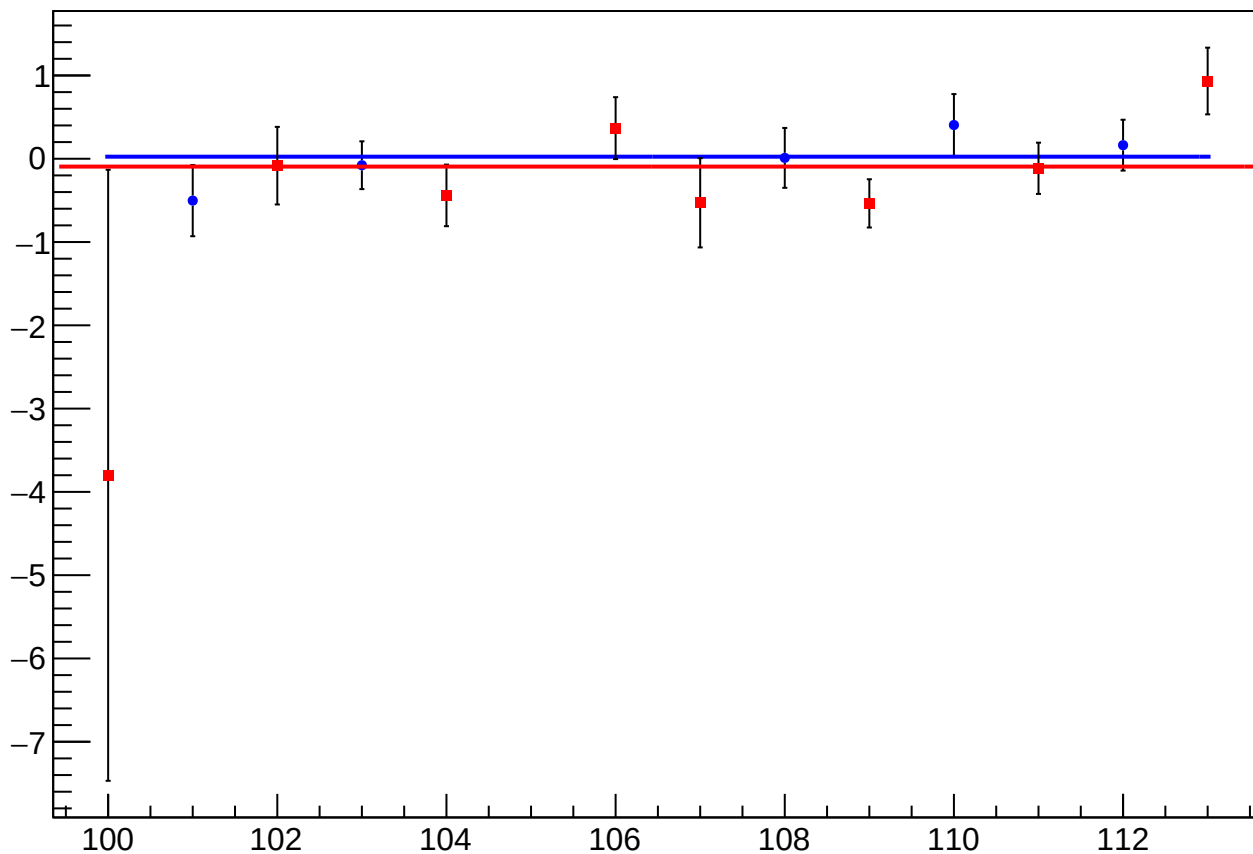
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 227.532 $\pm$ 0.073  $\chi^2$ /NDF: 323195.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_atl2\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.025 $\pm$ 0.152  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.094 $\pm$ 0.139  $\chi^2$ /NDF: 13.0/7

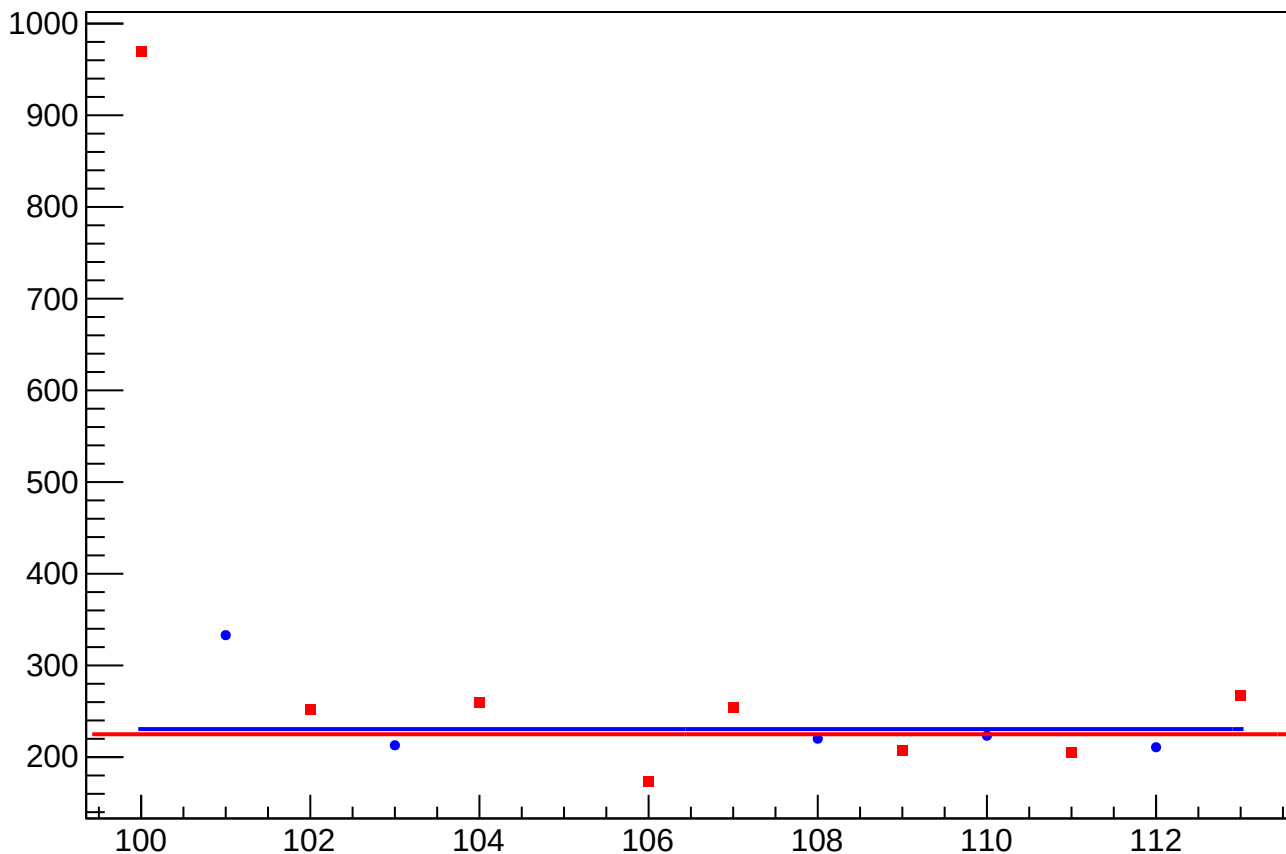
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

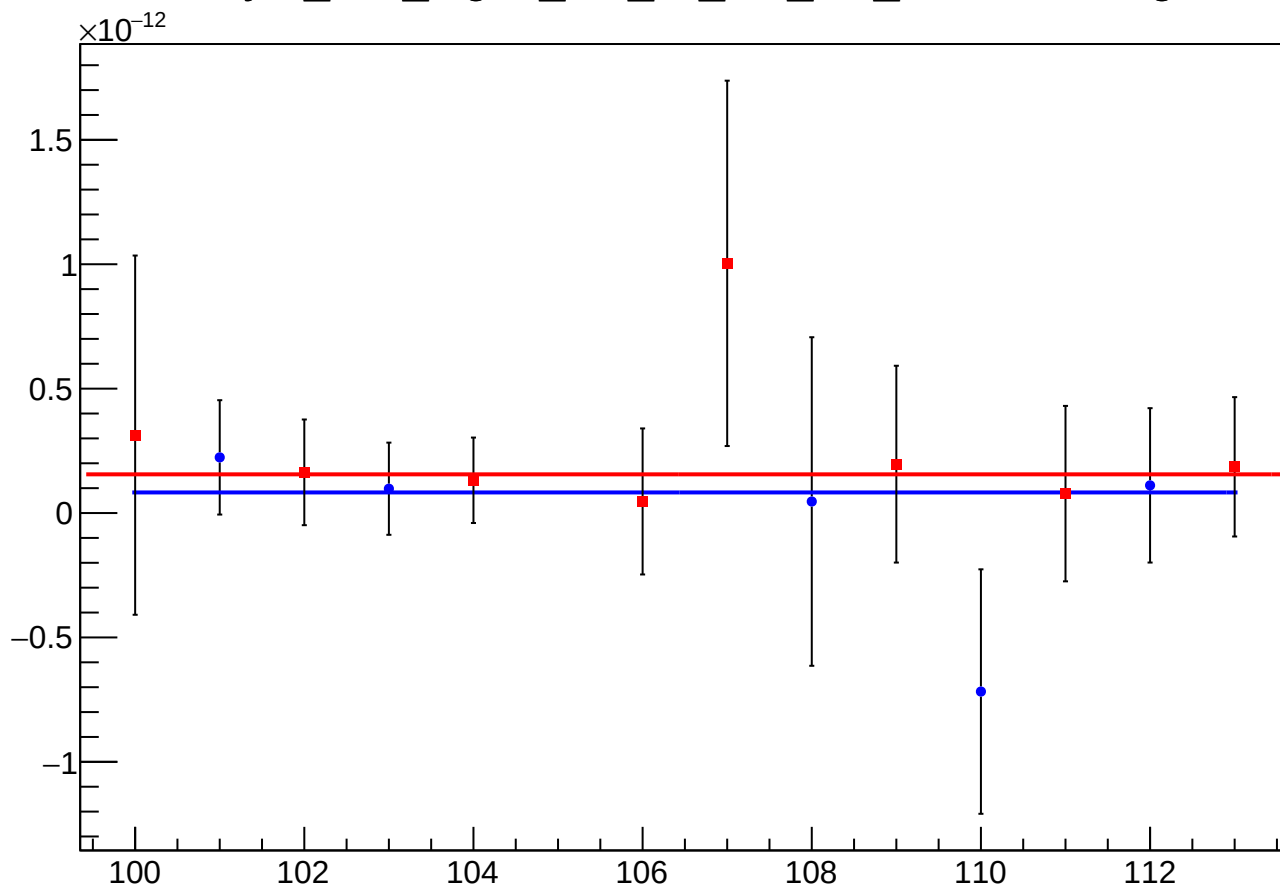
All: -0.040 $\pm$ 0.103  $\chi^2$ /NDF: 16.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl2\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



# asym\_atl2\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.6/7

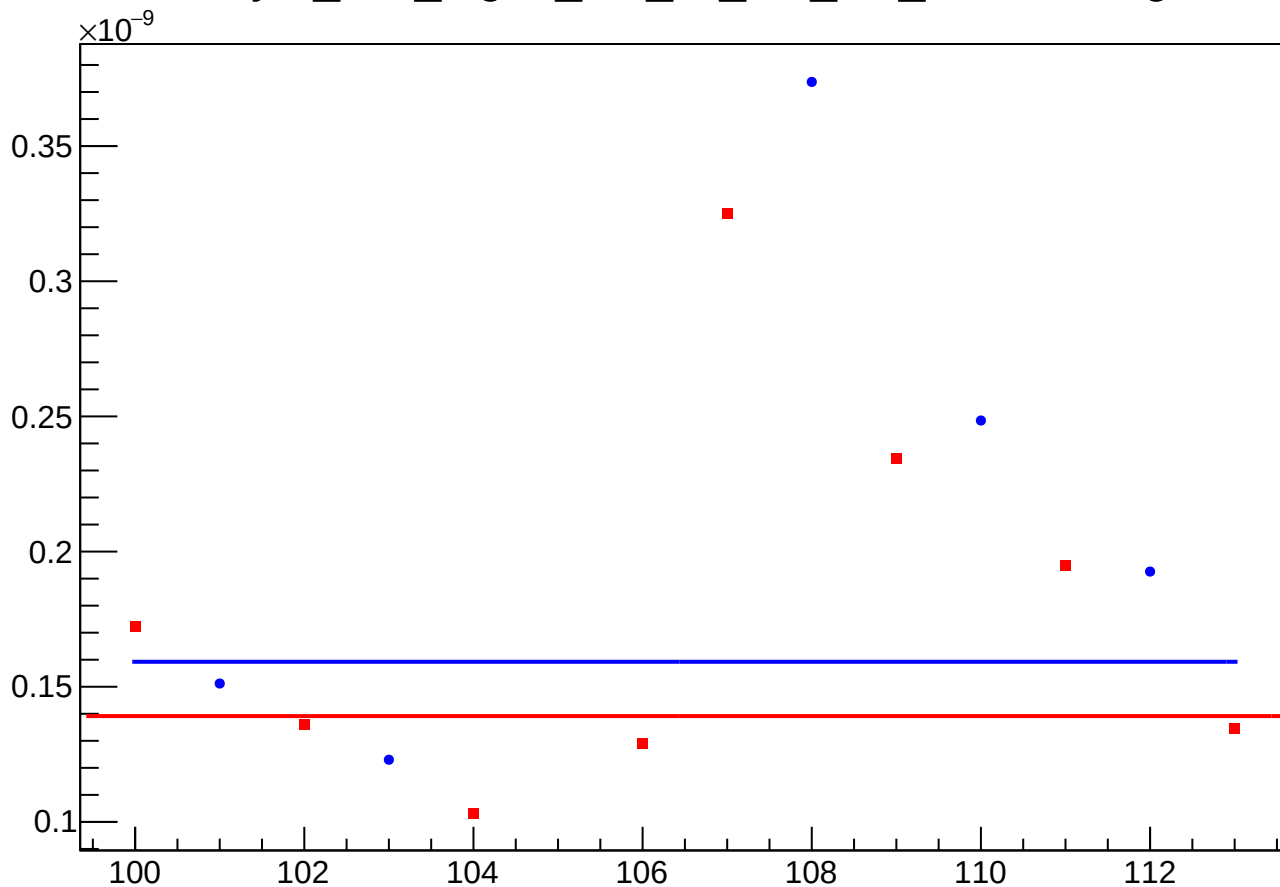
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 379132.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 389569.3/7

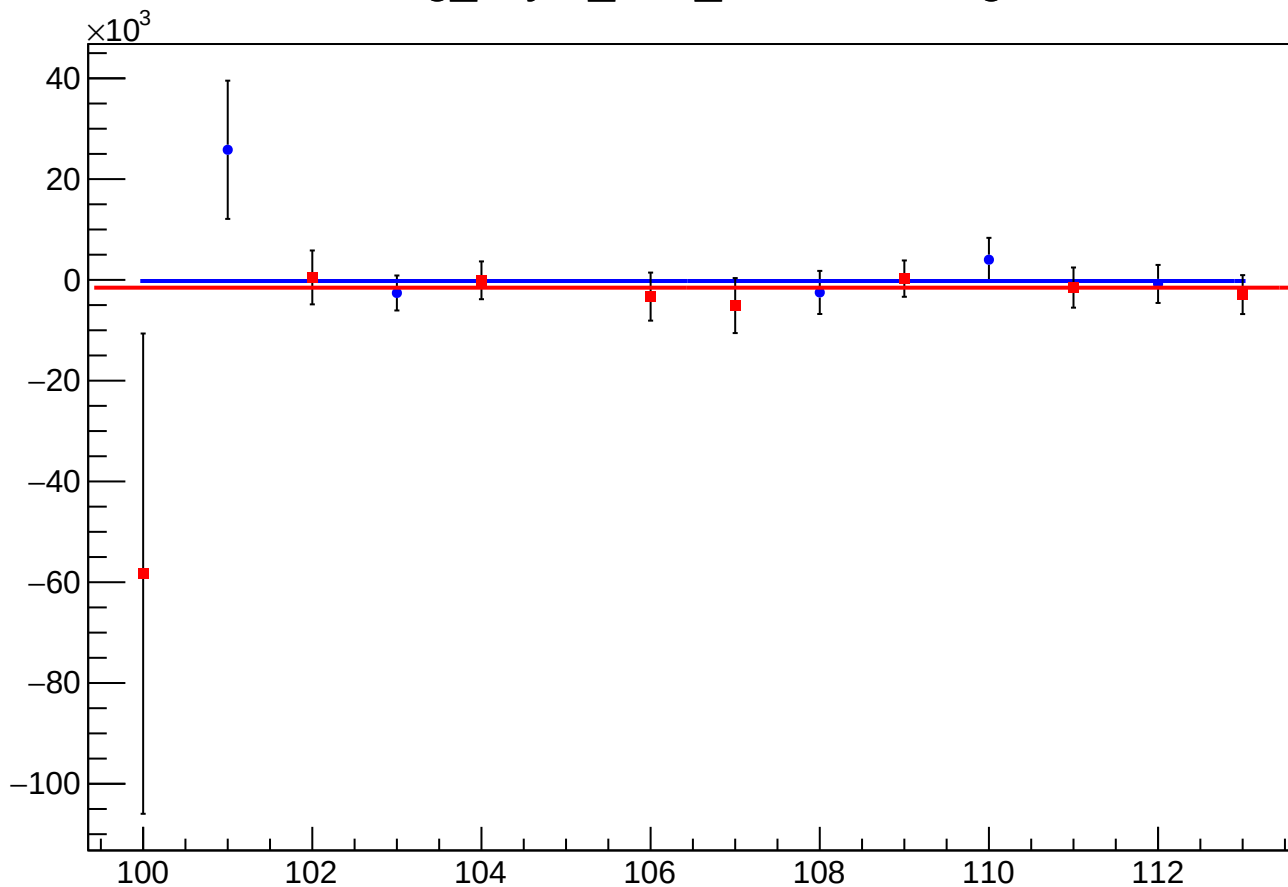
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 800304.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1\_mean vs Slug



Right In: -221.981 $\pm$ 1937.889  $\chi^2$ /NDF: 5.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1544.492 $\pm$ 1599.252  $\chi^2$ /NDF: 2.7/7

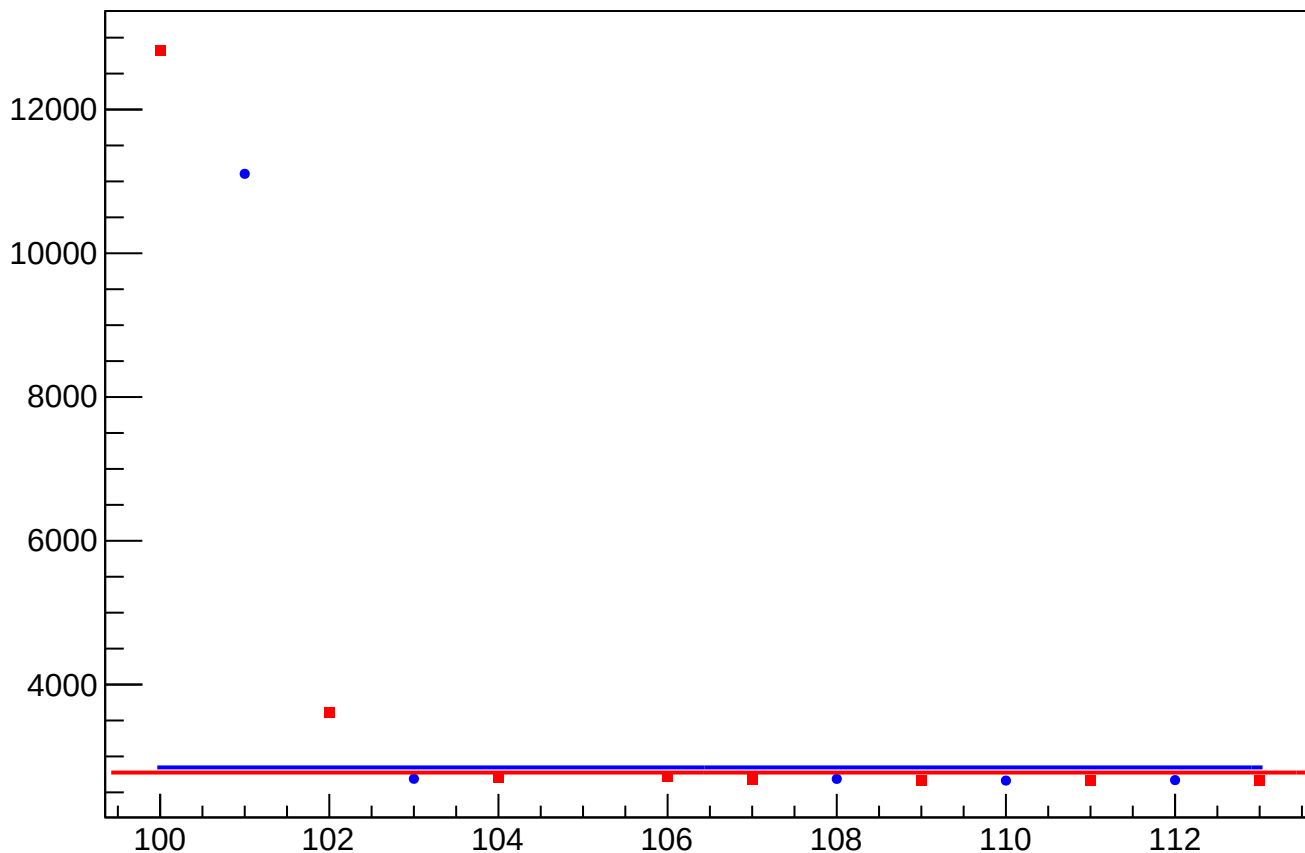
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1008.700 $\pm$ 1233.466  $\chi^2$ /NDF: 8.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1\_rms vs Slug



Right In: 2846.934 $\pm$ 1.370  $\chi^2$ /NDF: 739914.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2775.833 $\pm$ 1.131  $\chi^2$ /NDF: 143826.5/7

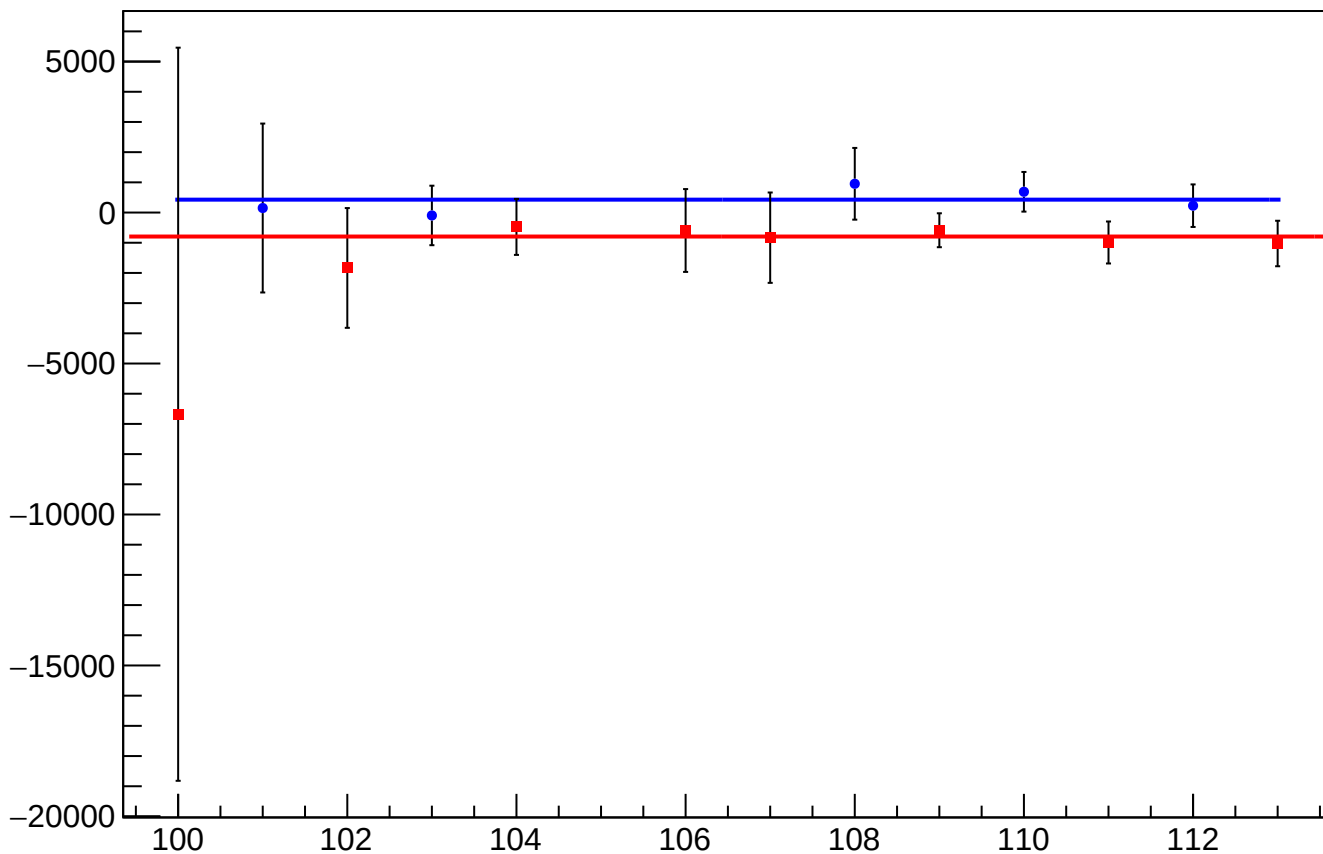
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2804.638 $\pm$ 0.872  $\chi^2$ /NDF: 885342.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_reg\_correction\_mean vs Slug



Right In: 427.094+/-401.642  $\chi^2/\text{NDF}$ : 0.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -794.257+/-326.139  $\chi^2/\text{NDF}$ : 1.0/7

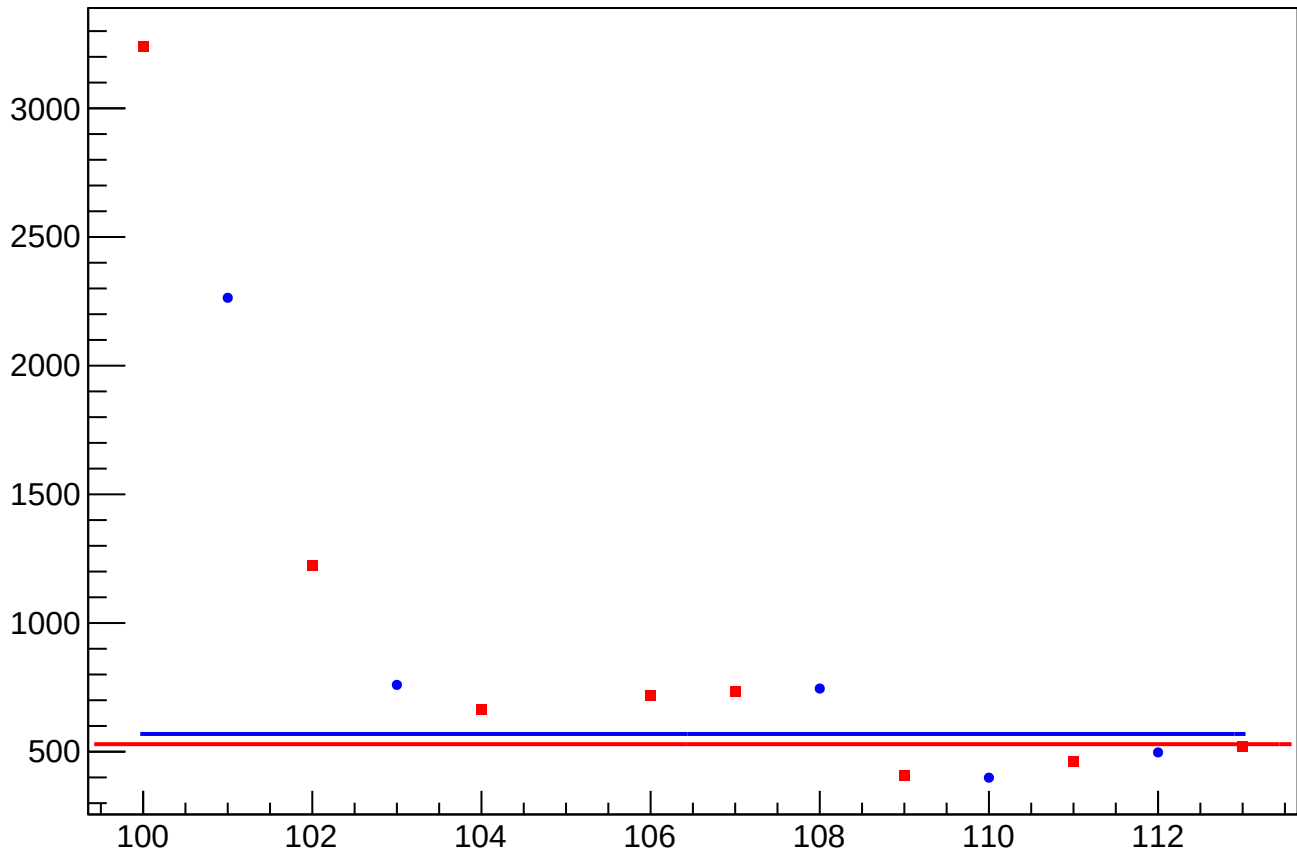
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -308.940+/-253.181  $\chi^2/\text{NDF}$ : 7.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_reg\_correction\_rms vs Slug



Right In: 568.949+/-0.284  $\chi^2/\text{NDF}$ : 1008041.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 529.204+/-0.231  $\chi^2/\text{NDF}$ : 577265.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

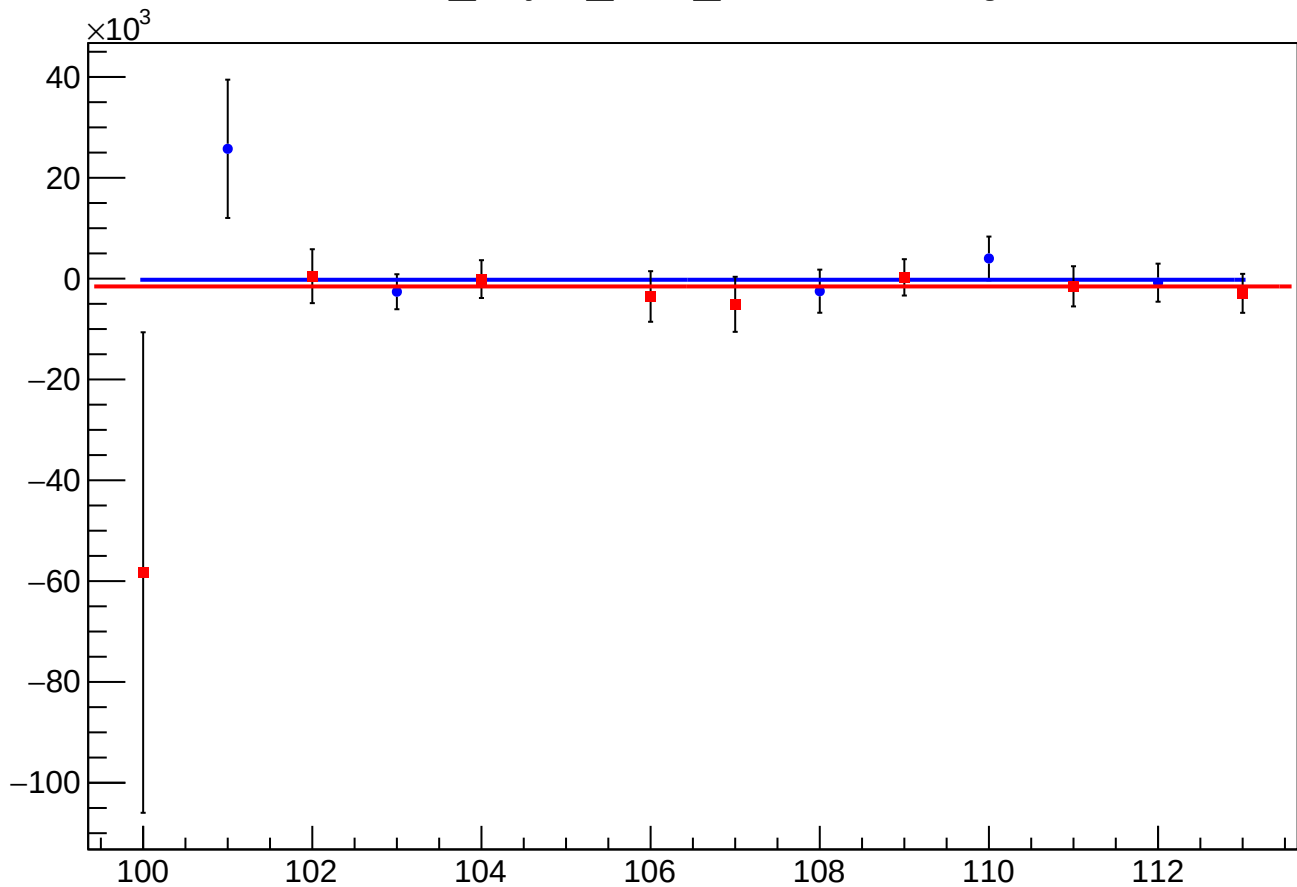
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 544.997+/-0.179  $\chi^2/\text{NDF}$ : 1597109.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atr1\_mean vs Slug



Right In: -224.139+/-1937.890  $\chi^2/\text{NDF}$ : 5.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1549.498+/-1608.081  $\chi^2/\text{NDF}$ : 2.7/7

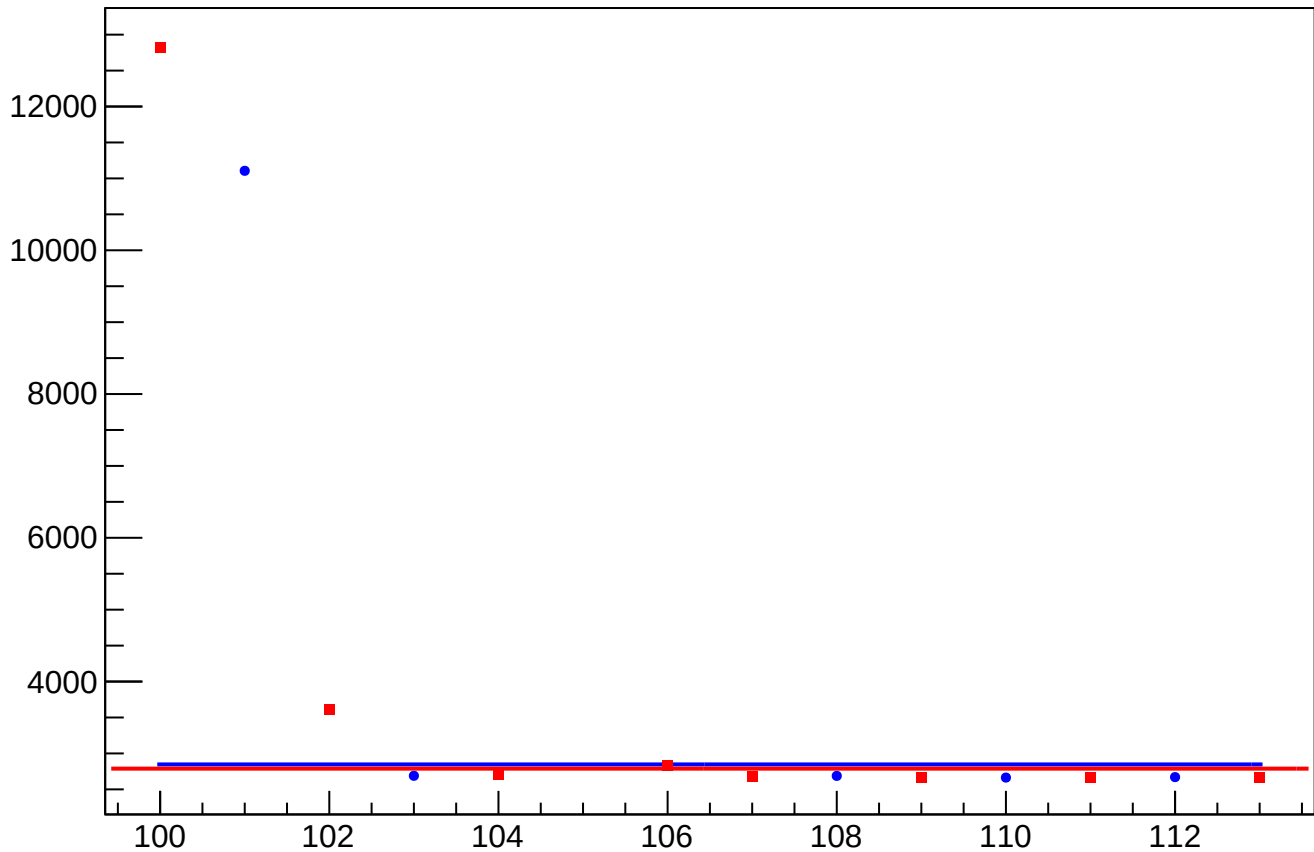
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1009.032+/-1237.504  $\chi^2/\text{NDF}$ : 8.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atr1\_rms vs Slug



Right In: 2846.934+/-1.370  $\chi^2/\text{NDF}$ : 739913.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2788.501+/-1.137  $\chi^2/\text{NDF}$ : 143757.1/7

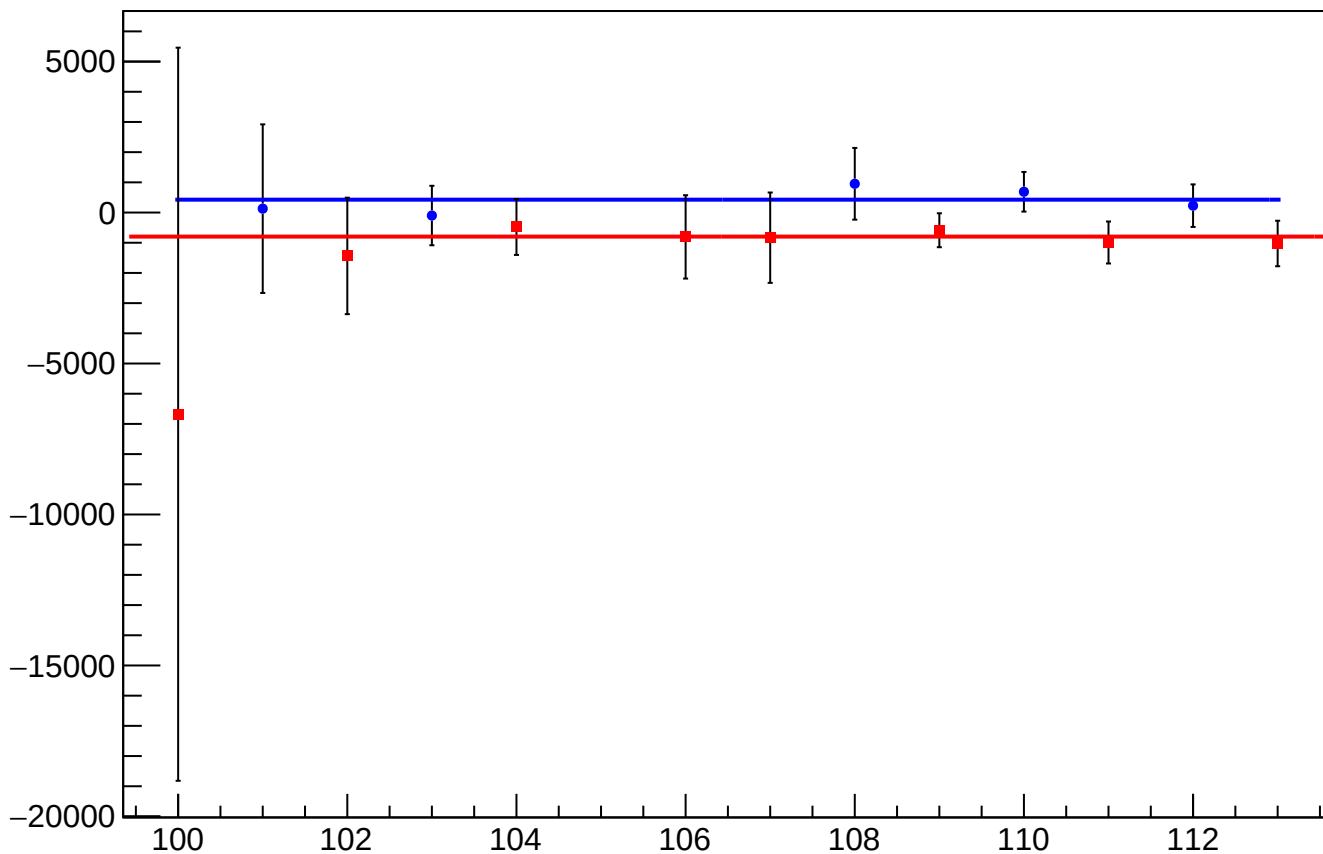
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2812.329+/-0.875  $\chi^2/\text{NDF}$ : 884747.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_cor\_correction\_mean vs Slug



Right In: 426.344+/-401.606  $\chi^2/\text{NDF}$ : 0.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -796.620+/-325.983  $\chi^2/\text{NDF}$ : 0.8/7

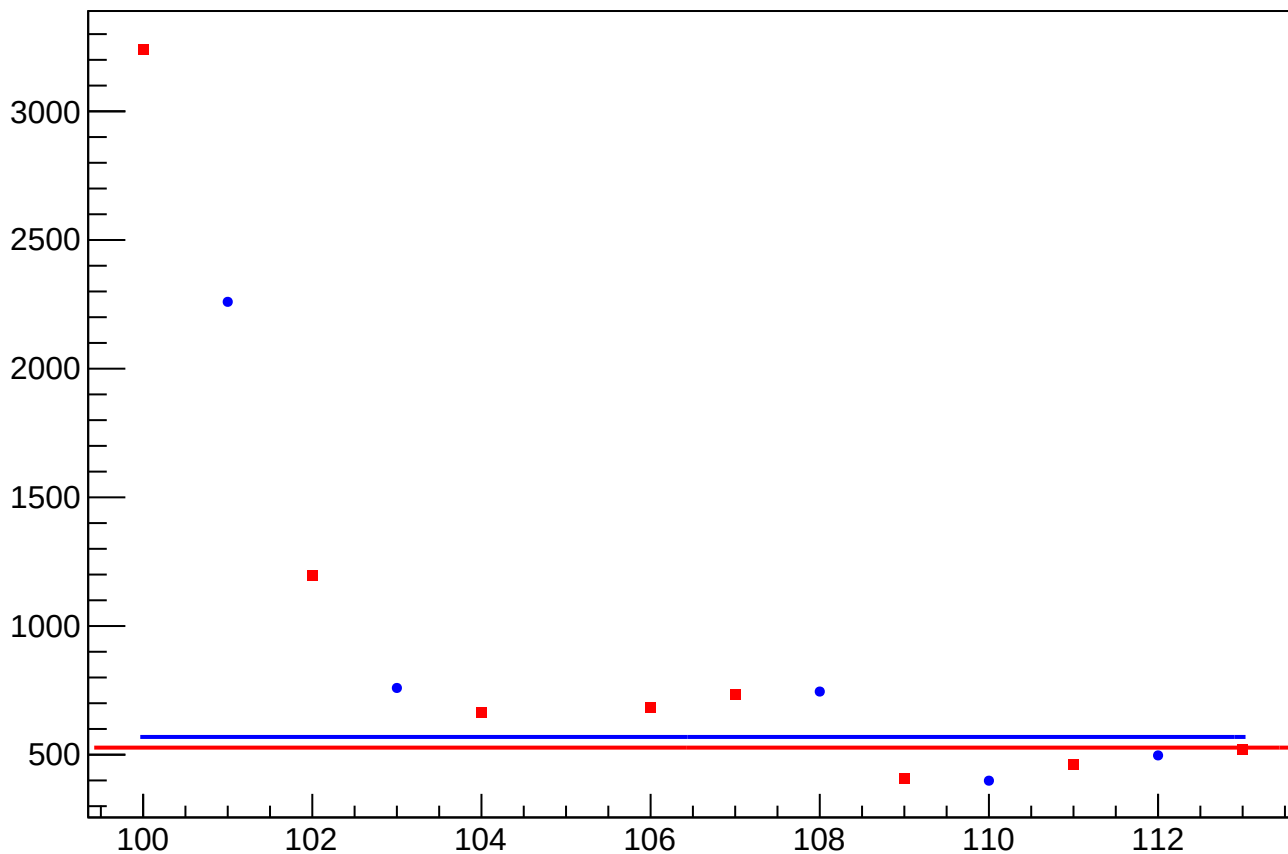
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -310.891+/-253.099  $\chi^2/\text{NDF}$ : 7.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_cor\_correction\_rms vs Slug



Right In: 568.980+/-0.284  $\chi^2/\text{NDF}$ : 1007030.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 527.526+/-0.231  $\chi^2/\text{NDF}$ : 560436.1/7

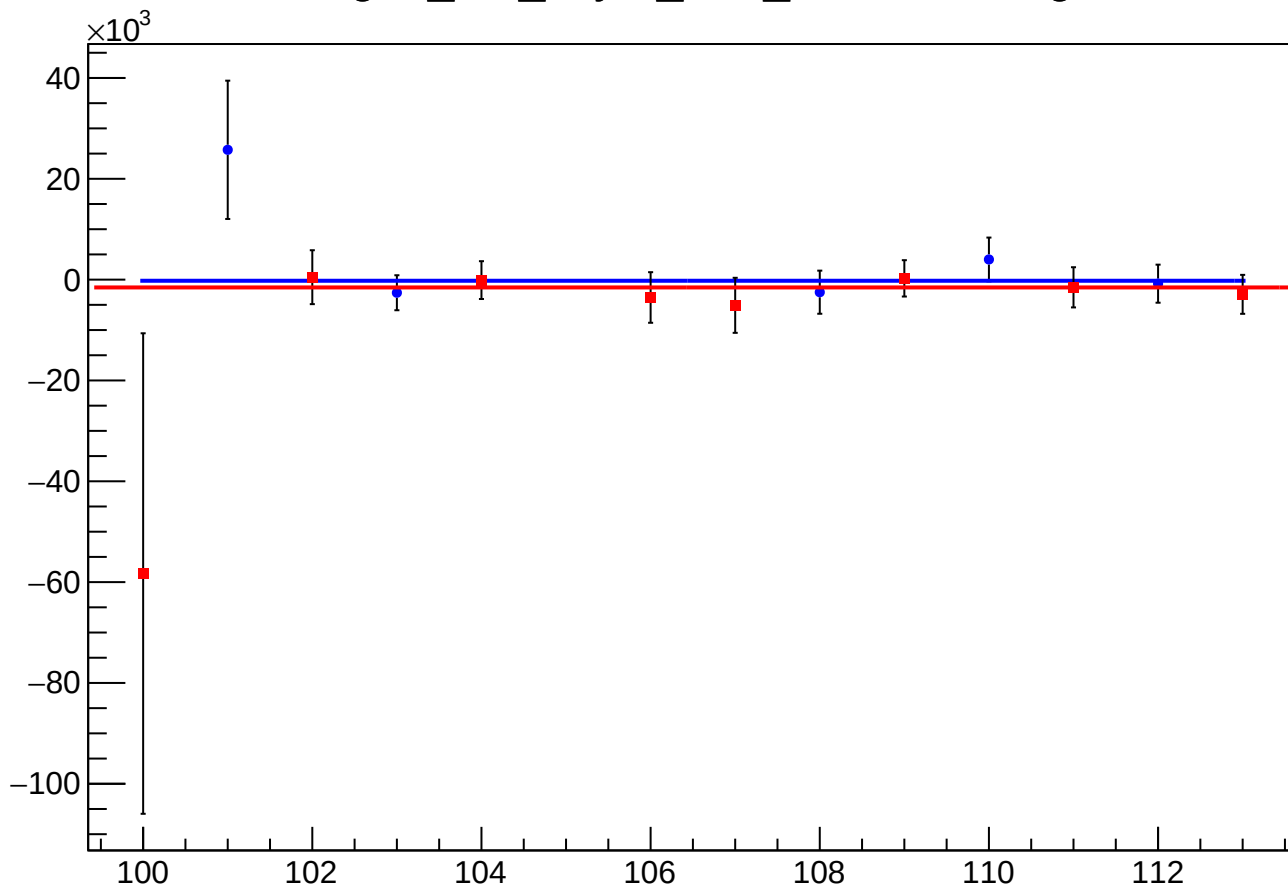
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 543.990+/-0.179  $\chi^2/\text{NDF}$ : 1580312.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr1\_mean vs Slug



Right In:  $-224.139 \pm 1937.890$   $\chi^2/\text{NDF}$ : 5.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1549.498 \pm 1608.081$   $\chi^2/\text{NDF}$ : 2.7/7

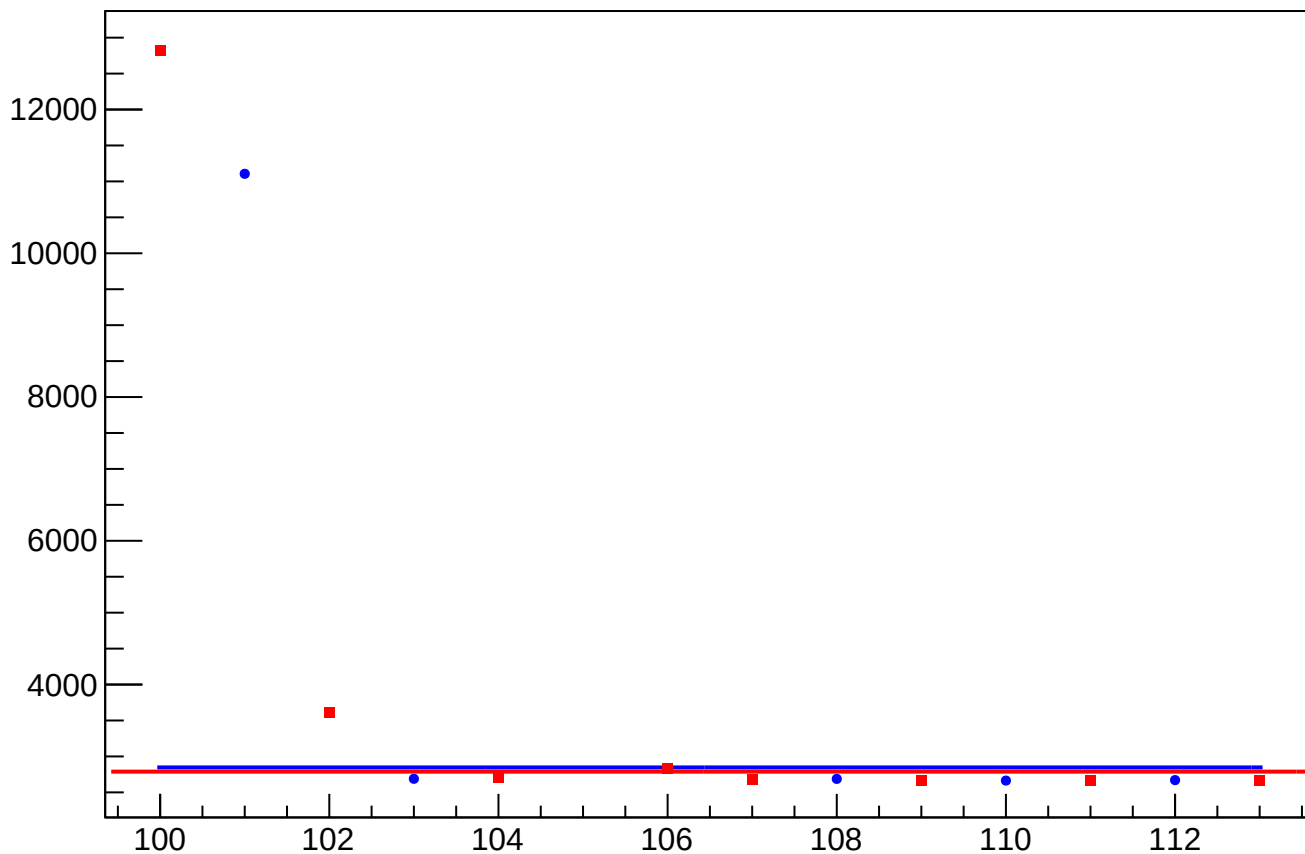
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1009.032 \pm 1237.504$   $\chi^2/\text{NDF}$ : 8.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr1\_rms vs Slug



Right In: 2846.934+/-1.370  $\chi^2/\text{NDF}$ : 739913.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2788.501+/-1.137  $\chi^2/\text{NDF}$ : 143757.1/7

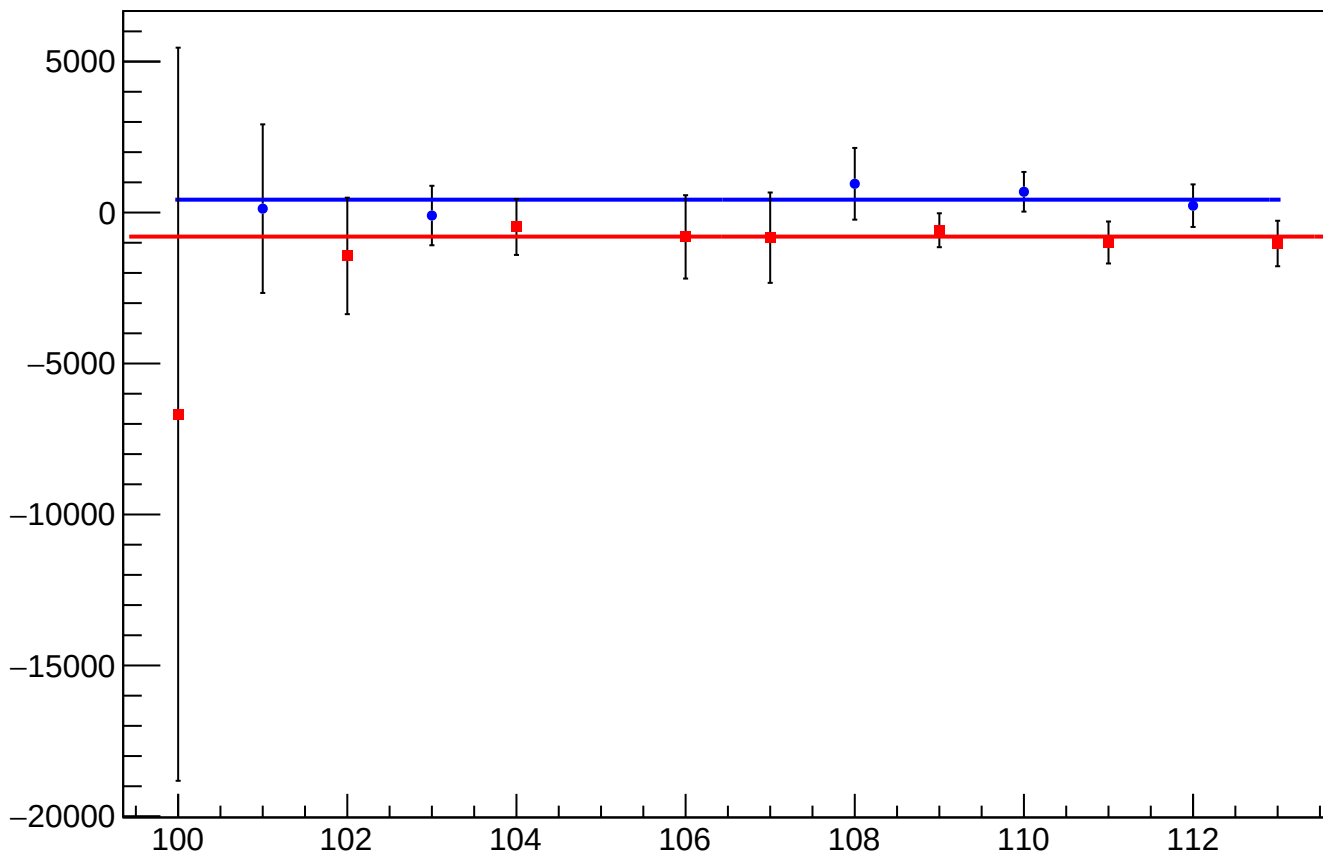
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2812.329+/-0.875  $\chi^2/\text{NDF}$ : 884747.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_cor\_correction\_mean vs Slug



Right In: 426.344+/-401.606  $\chi^2/\text{NDF}$ : 0.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -796.620+/-325.983  $\chi^2/\text{NDF}$ : 0.8/7

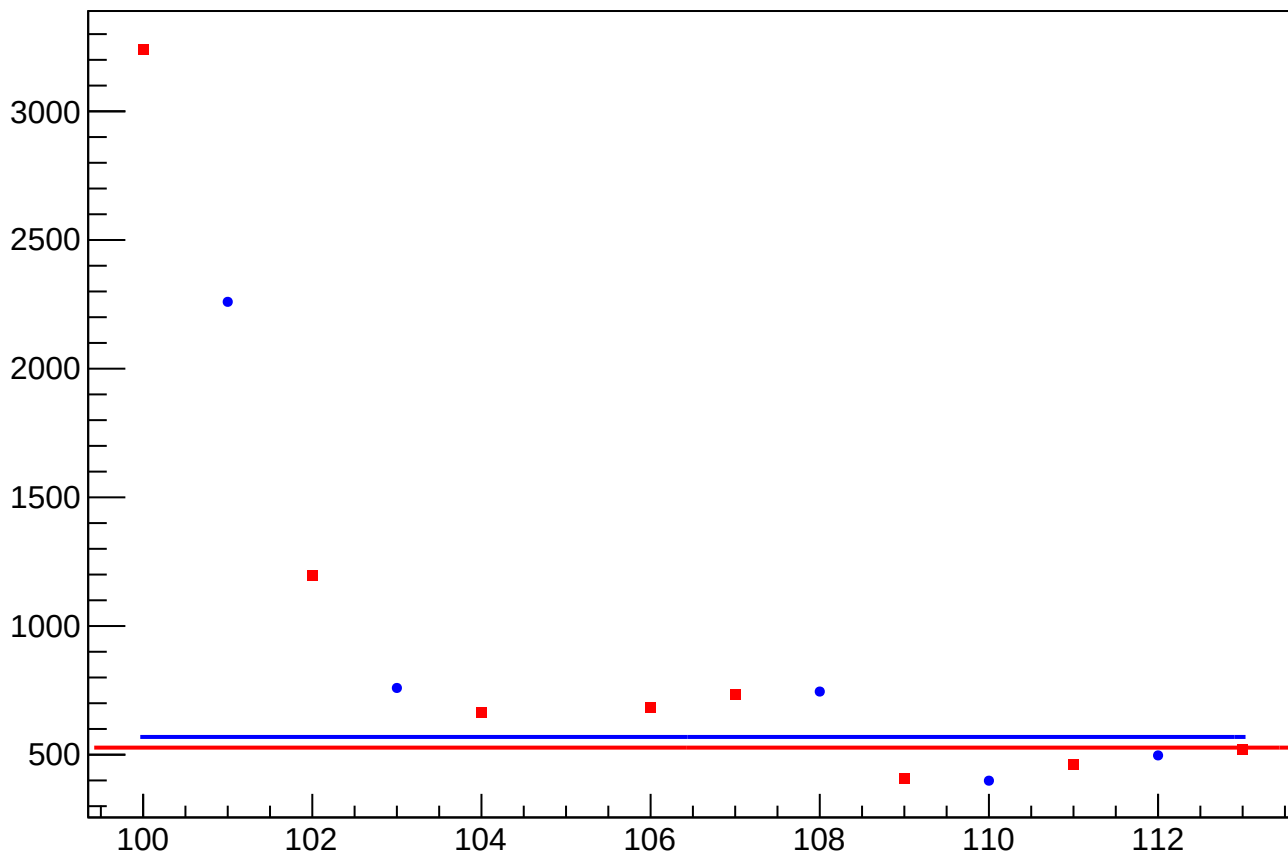
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -310.891+/-253.099  $\chi^2/\text{NDF}$ : 7.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_cor\_correction\_rms vs Slug



Right In: 568.980+/-0.284  $\chi^2/\text{NDF}$ : 1007030.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 527.526+/-0.231  $\chi^2/\text{NDF}$ : 560436.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

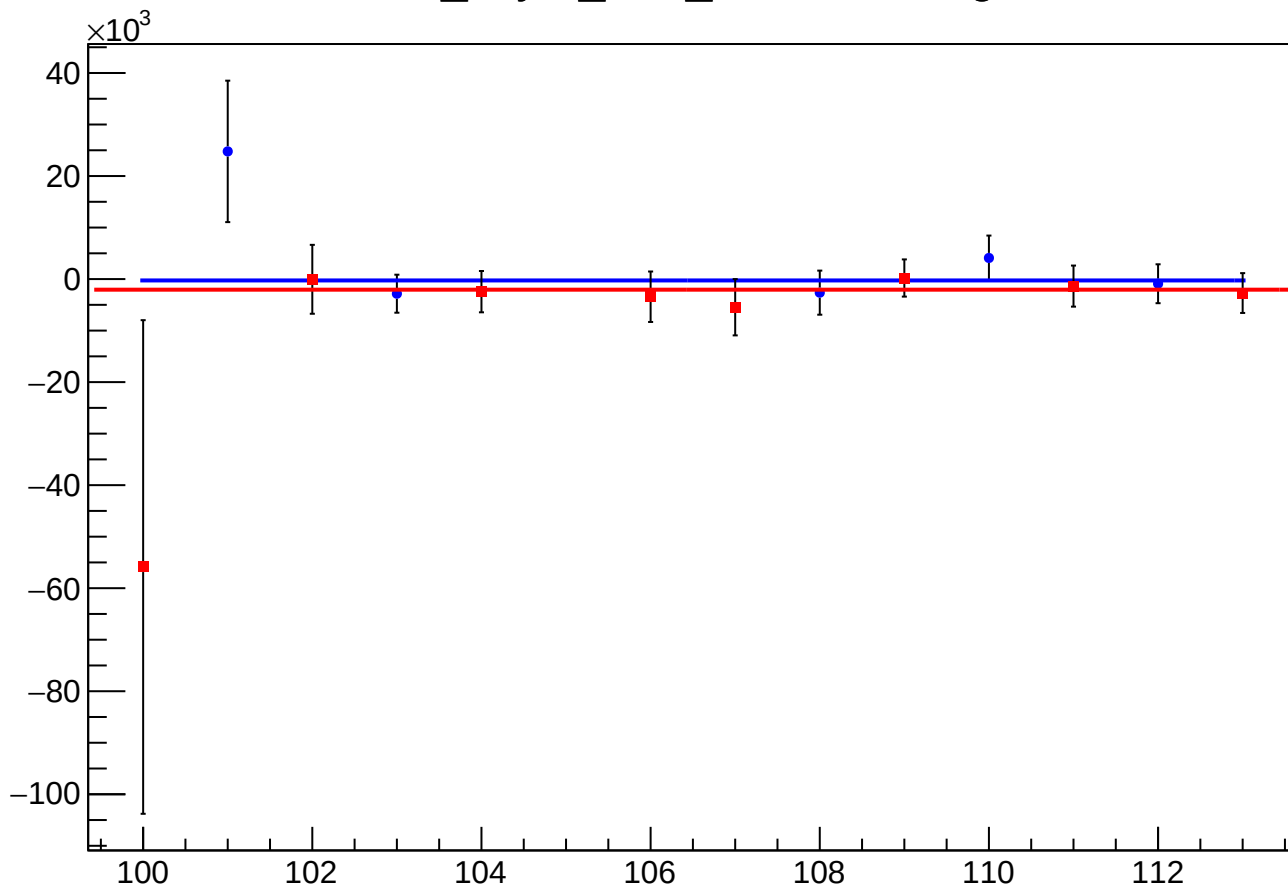
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 543.990+/-0.179  $\chi^2/\text{NDF}$ : 1580312.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_atr1\_mean vs Slug



Right In: -264.113 $\pm$ 1974.618  $\chi^2$ /NDF: 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2058.853 $\pm$ 1651.286  $\chi^2$ /NDF: 2.3/7

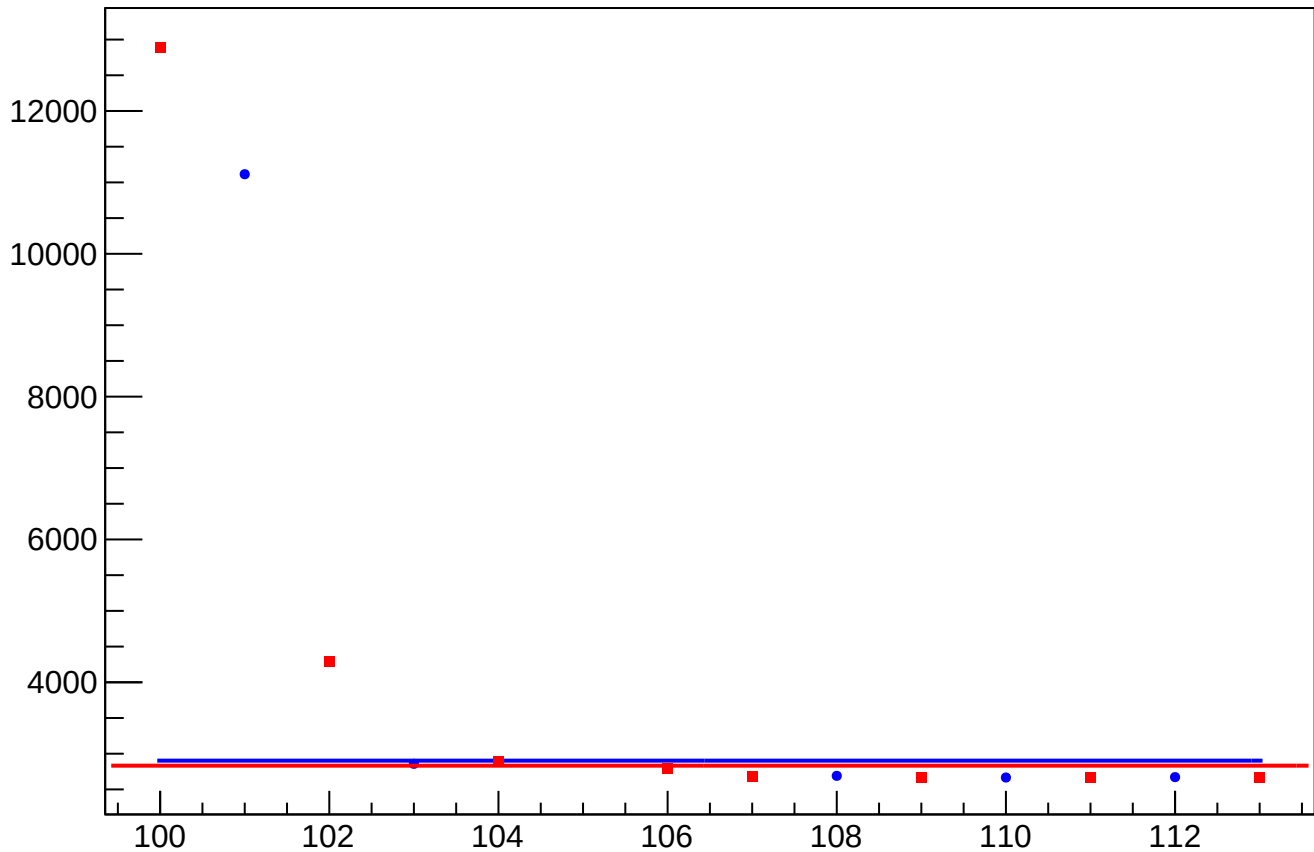
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1320.262 $\pm$ 1266.731  $\chi^2$ /NDF: 7.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atr1\_rms vs Slug



Right In: 2902.697+/-1.396  $\chi^2/\text{NDF}$ : 734353.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2832.454+/-1.168  $\chi^2/\text{NDF}$ : 197201.0/7

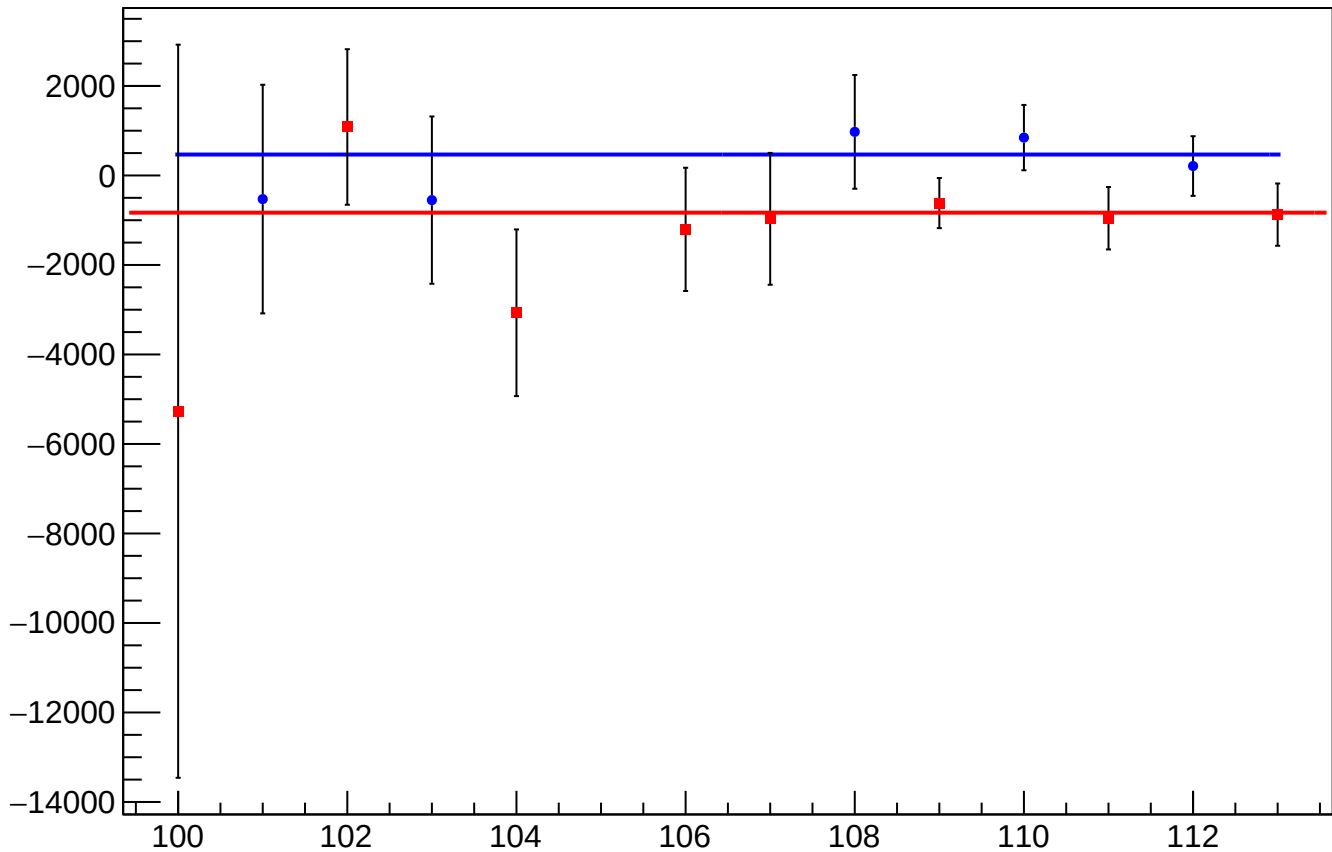
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2861.361+/-0.896  $\chi^2/\text{NDF}$ : 933044.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_dit\_correction\_mean vs Slug



Right In: 467.546 $\pm$ 439.062  $\chi^2$ /NDF: 1.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -831.451 $\pm$ 334.568  $\chi^2$ /NDF: 3.2/7

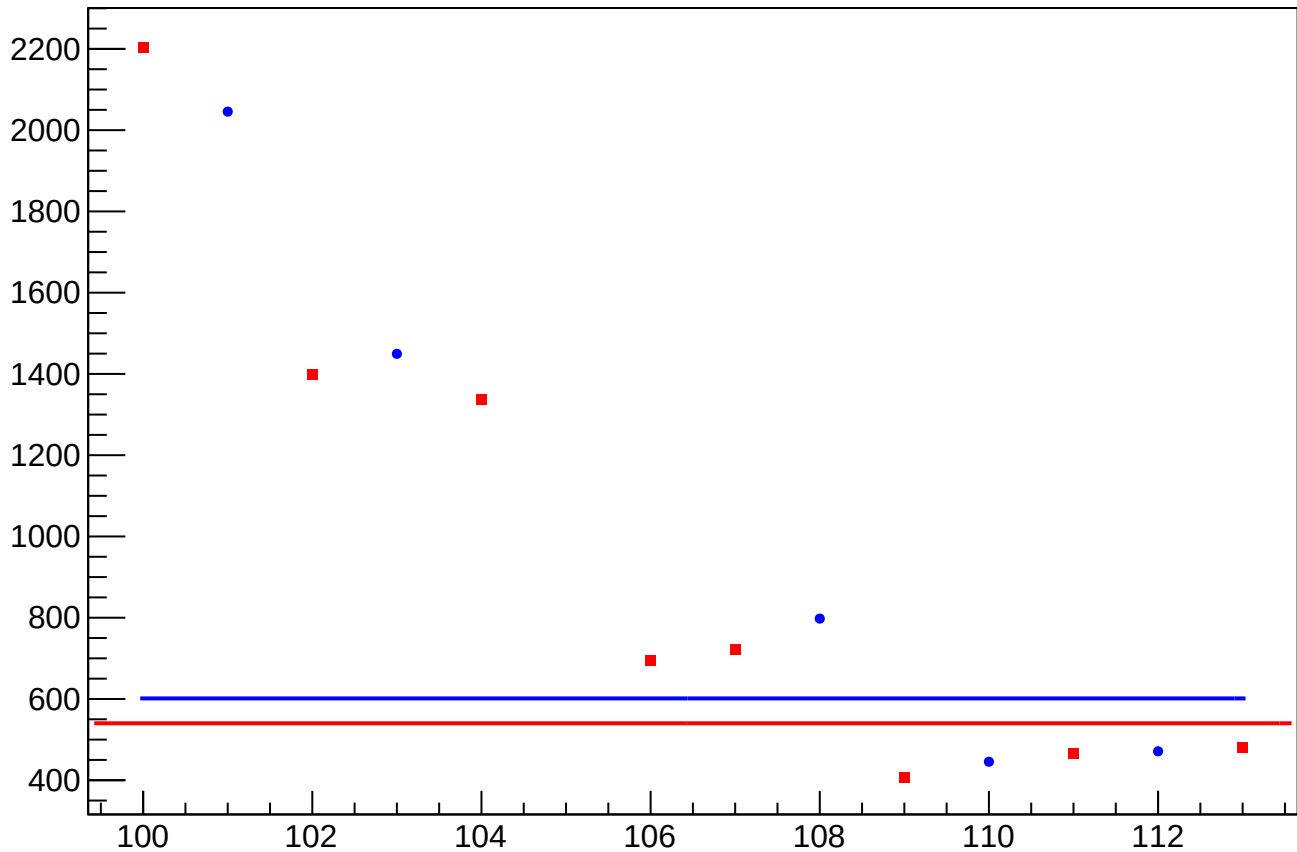
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -354.263 $\pm$ 266.113  $\chi^2$ /NDF: 9.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_dit\_correction\_rms vs Slug



Right In: 601.371+/-0.310  $\chi^2/\text{NDF}$ : 1266493.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 540.196+/-0.237  $\chi^2/\text{NDF}$ : 1143200.0/7

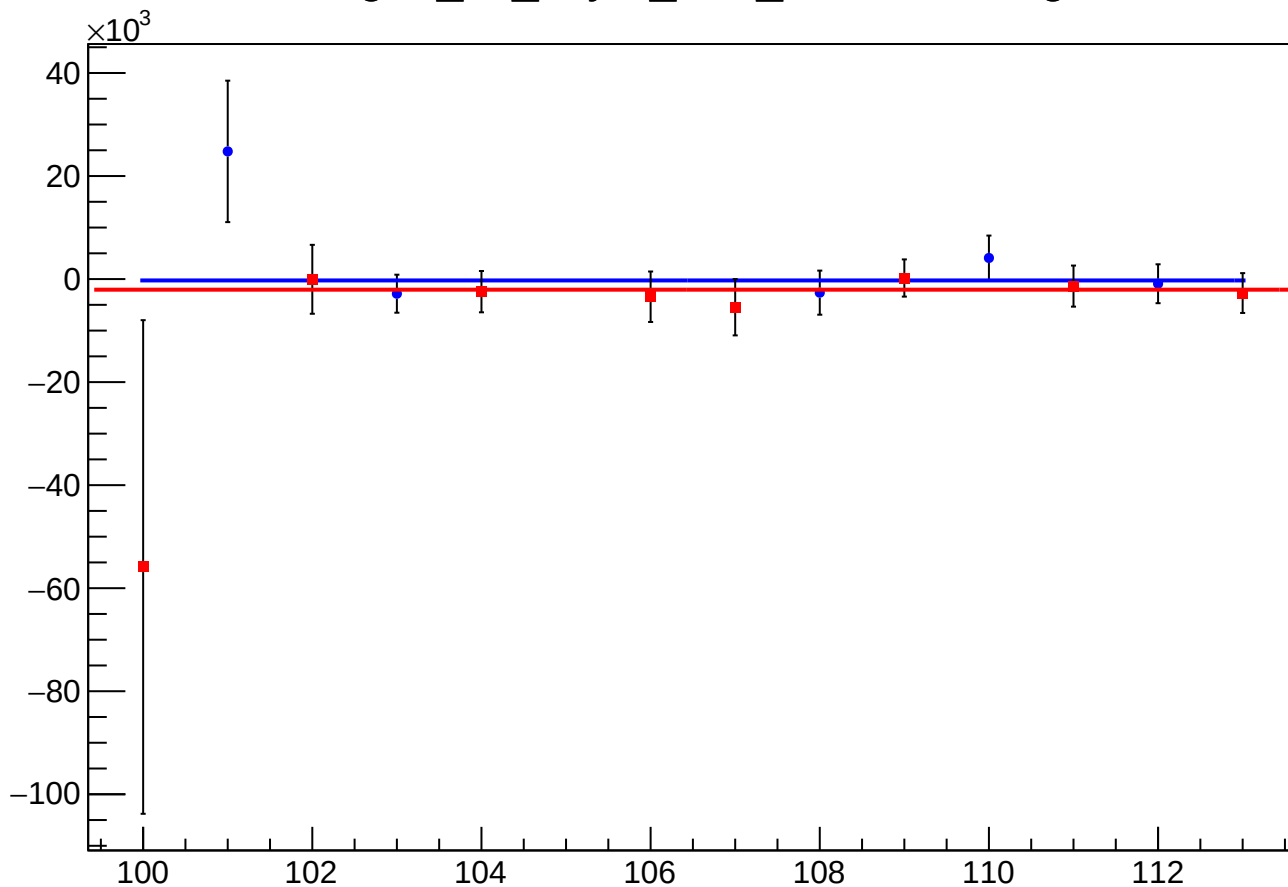
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 562.668+/-0.188  $\chi^2/\text{NDF}$ : 2434256.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atr1\_mean vs Slug



Right In: -264.112 $\pm$ 1974.618  $\chi^2$ /NDF: 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2058.849 $\pm$ 1651.286  $\chi^2$ /NDF: 2.3/7

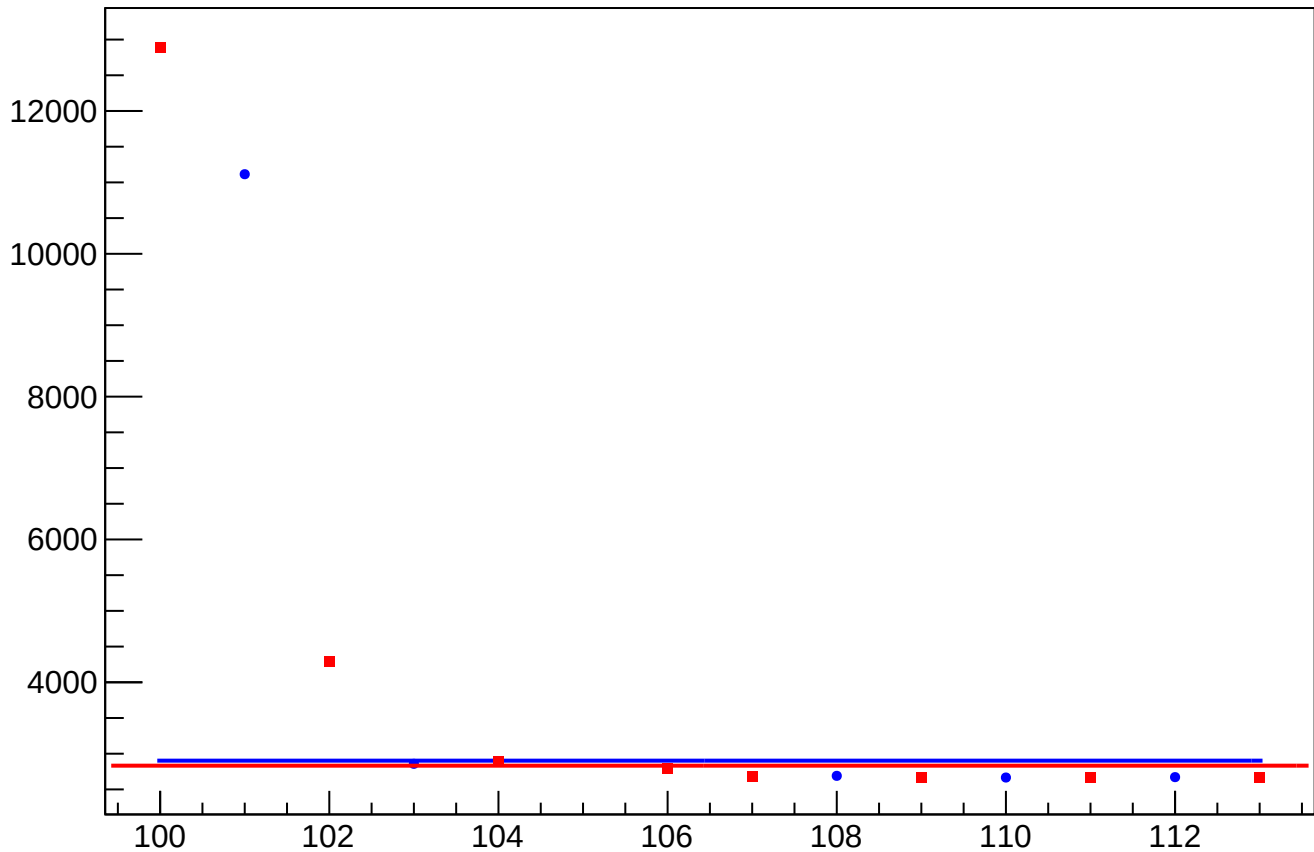
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1320.260 $\pm$ 1266.731  $\chi^2$ /NDF: 7.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atr1\_rms vs Slug



Right In: 2902.697+/-1.396  $\chi^2/\text{NDF}$ : 734353.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2832.453+/-1.168  $\chi^2/\text{NDF}$ : 197200.8/7

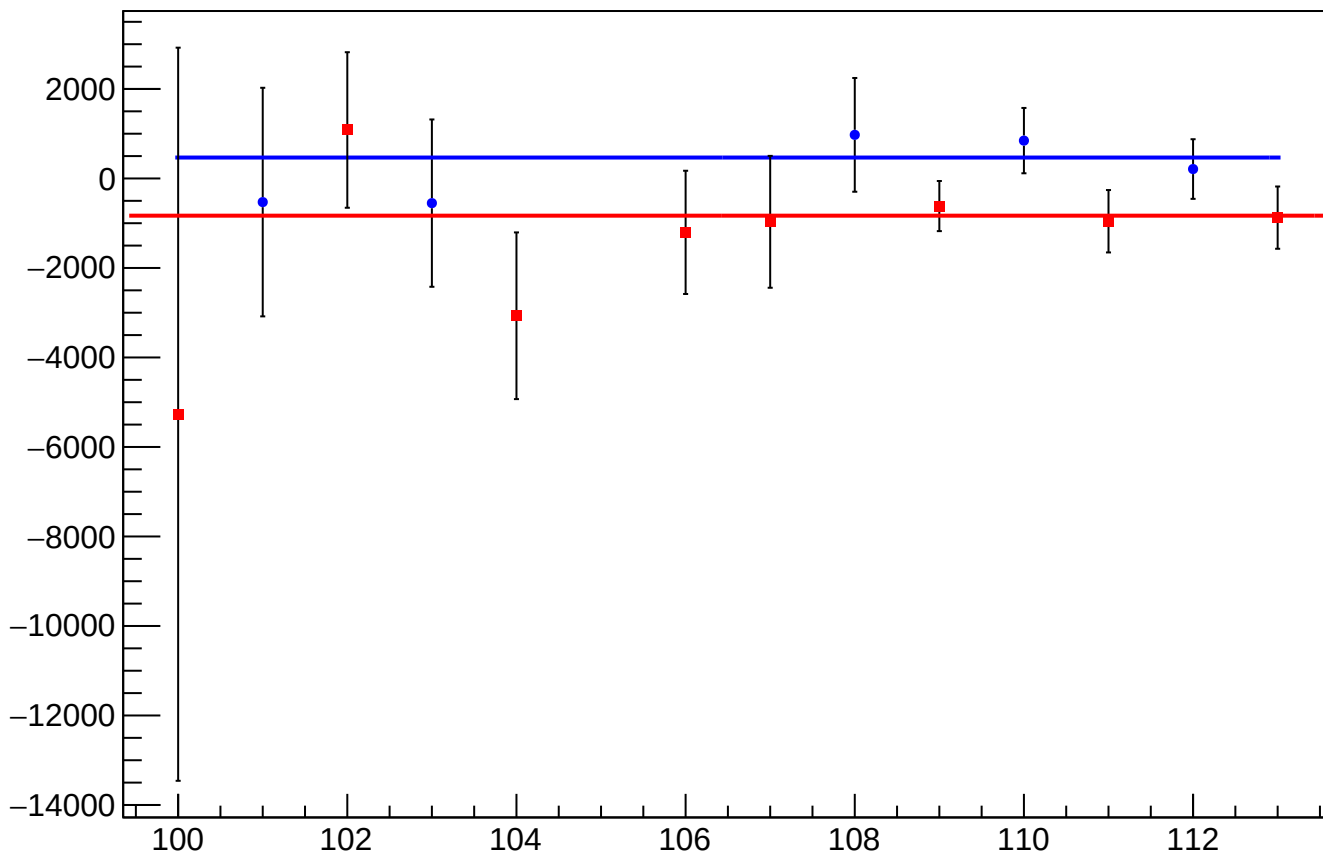
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2861.361+/-0.896  $\chi^2/\text{NDF}$ : 933043.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_dit\_correction\_mean vs Slug



Right In: 467.549+/-439.063  $\chi^2/\text{NDF}$ : 1.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -831.450+/-334.568  $\chi^2/\text{NDF}$ : 3.2/7

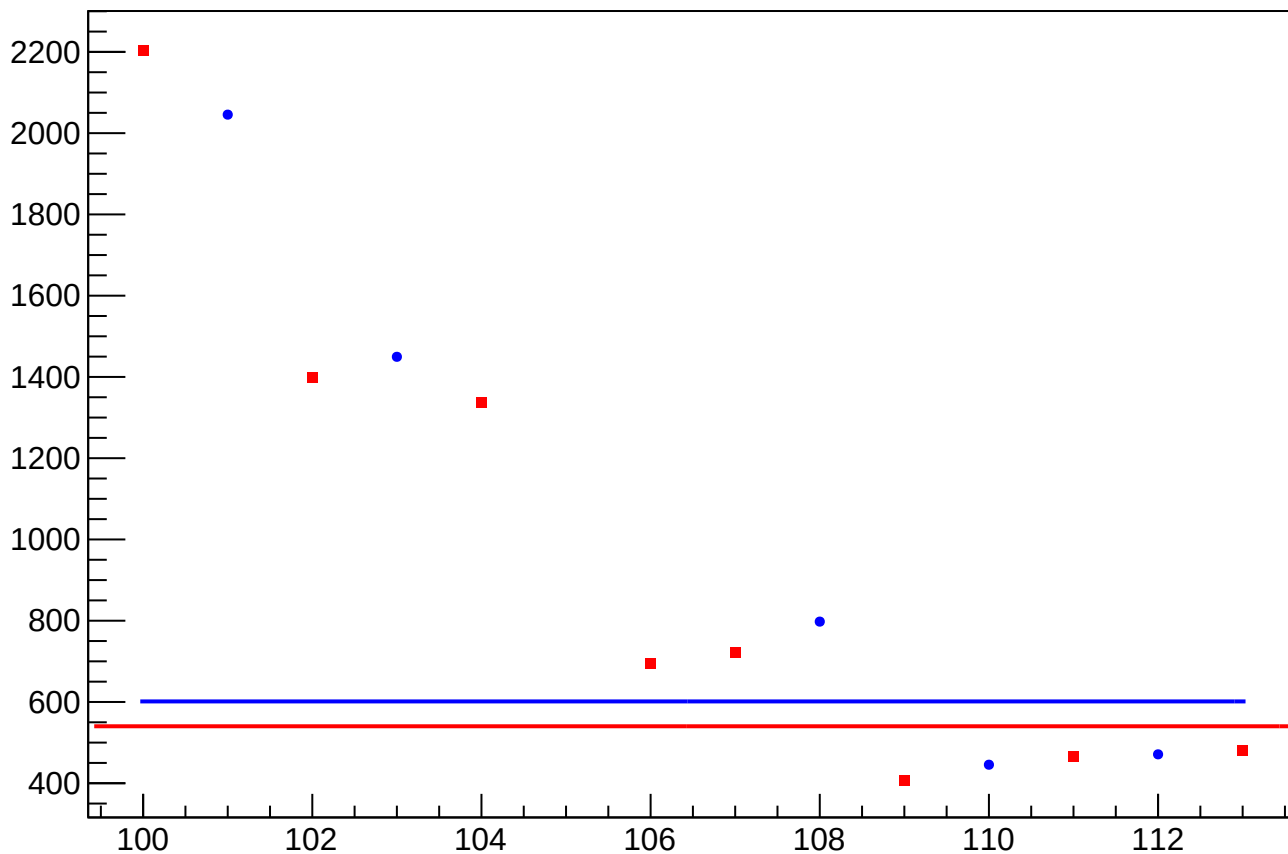
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -354.263+/-266.113  $\chi^2/\text{NDF}$ : 9.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_dit\_correction\_rms vs Slug



Right In: 601.373+/-0.310  $\chi^2/\text{NDF}$ : 1266485.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 540.196+/-0.237  $\chi^2/\text{NDF}$ : 1143195.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

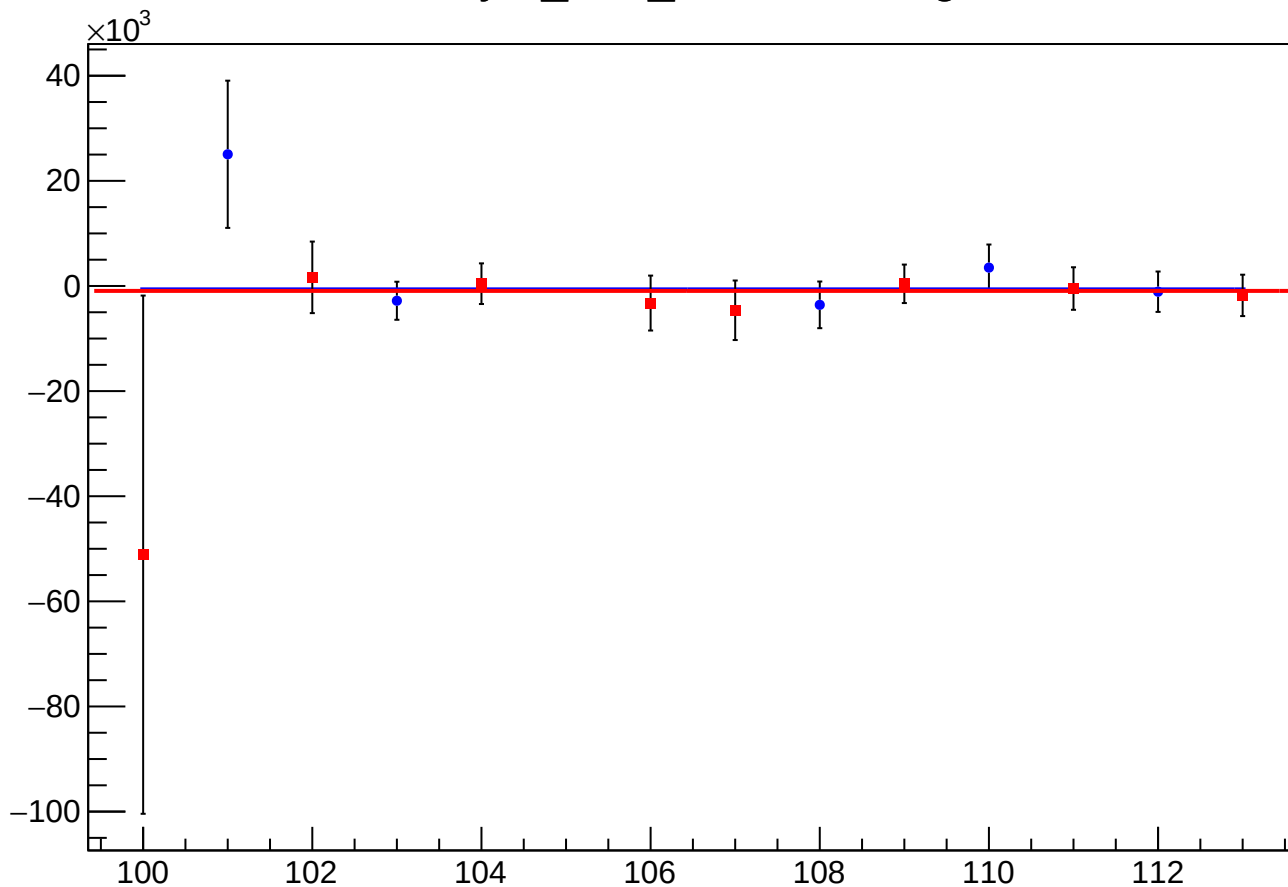
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 562.669+/-0.188  $\chi^2/\text{NDF}$ : 2434245.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atr1\_mean vs Slug



Right In: -644.270+/-1993.131  $\chi^2/\text{NDF}$ : 5.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -936.204+/-1674.031  $\chi^2/\text{NDF}$ : 2.1/7

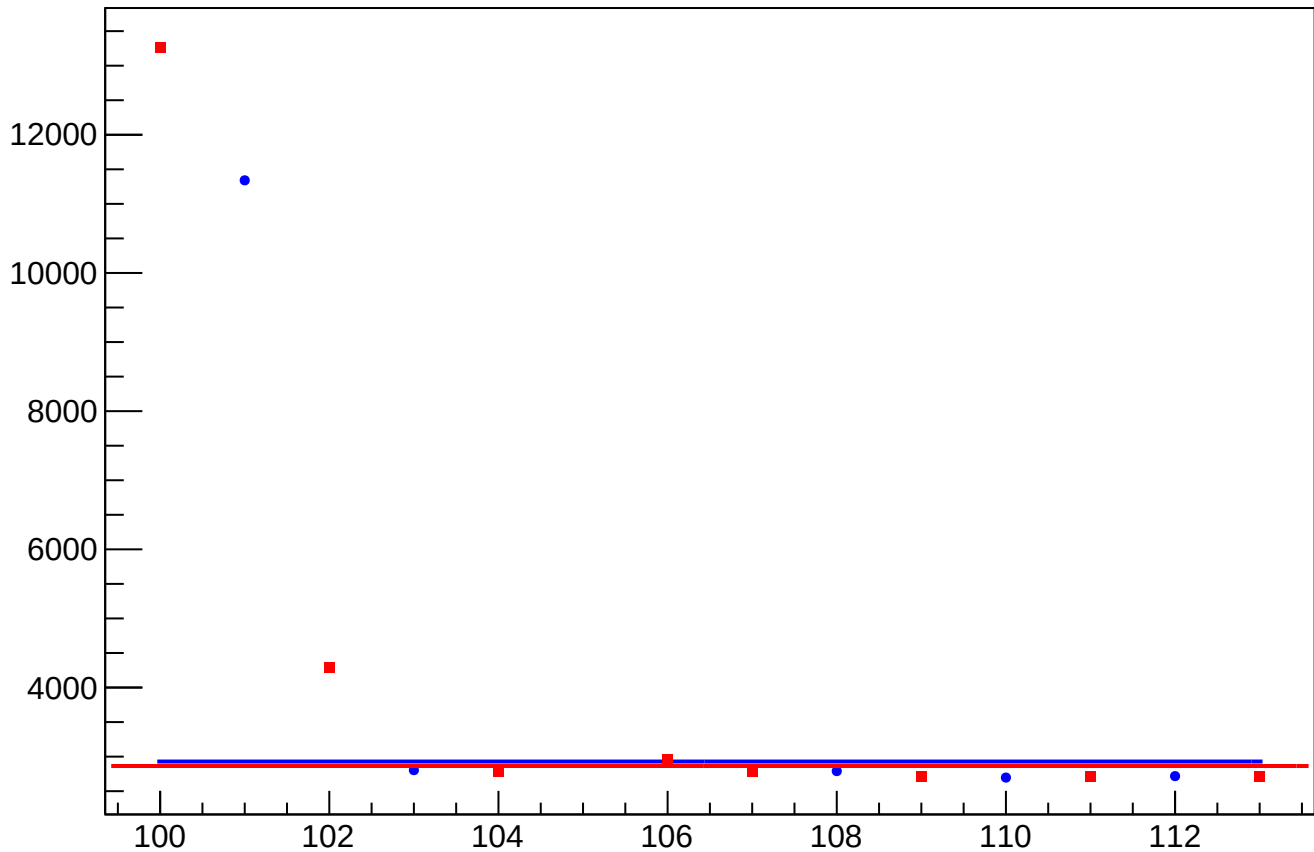
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -815.449+/-1281.877  $\chi^2/\text{NDF}$ : 7.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_rms vs Slug



Right In: 2929.072+/-1.409  $\chi^2/\text{NDF}$ : 737407.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2864.349+/-1.184  $\chi^2/\text{NDF}$ : 188671.2/7

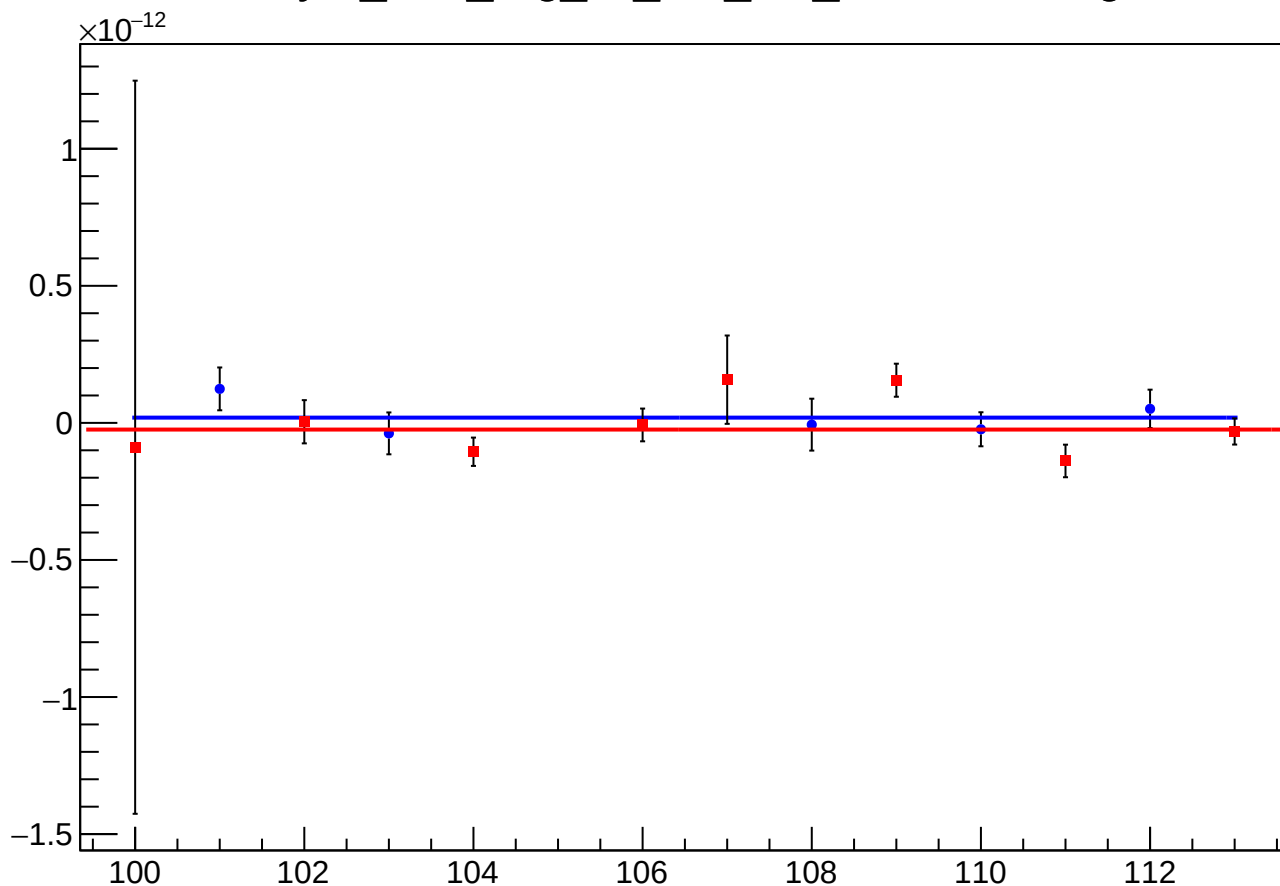
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2891.121+/-0.906  $\chi^2/\text{NDF}$ : 927315.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.6/7

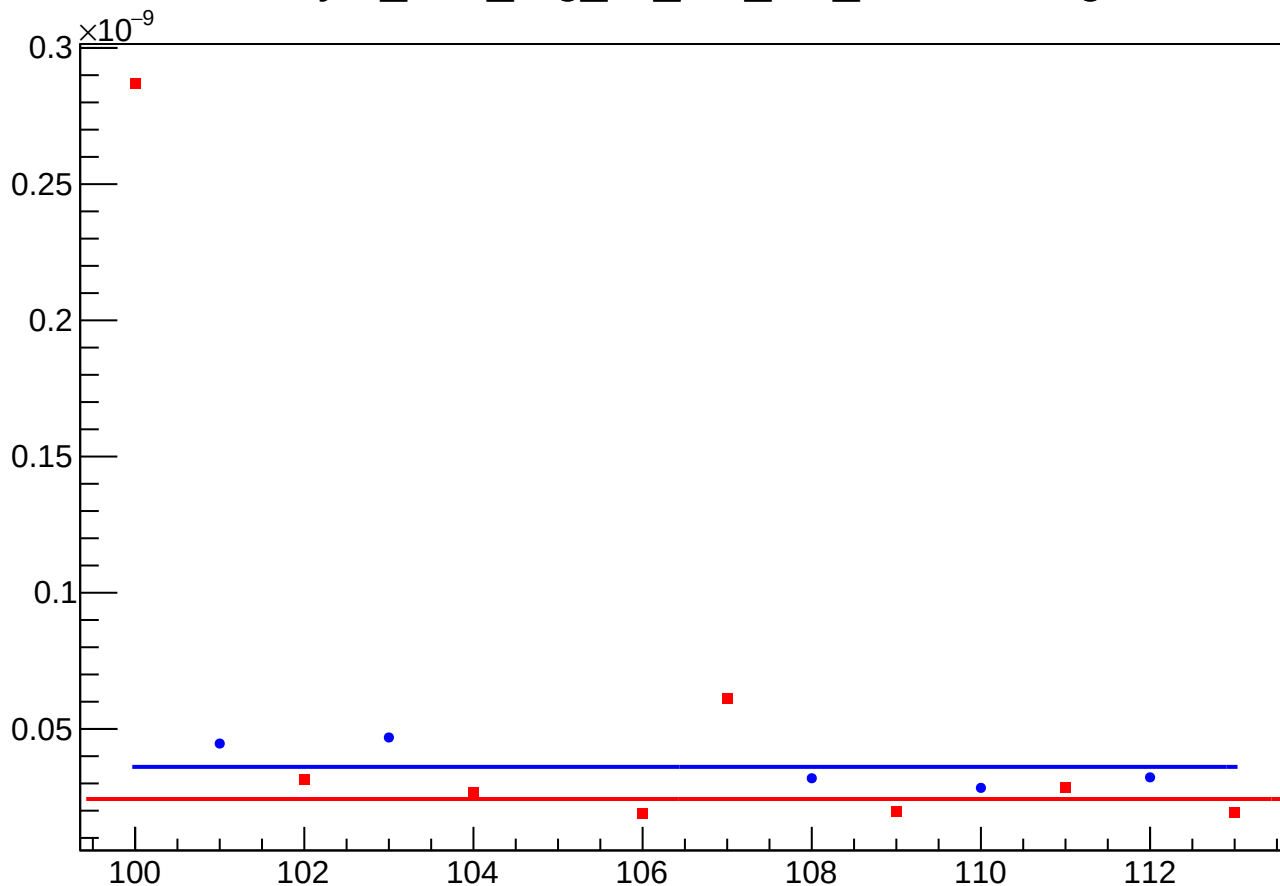
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 104689.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 261877.4/7

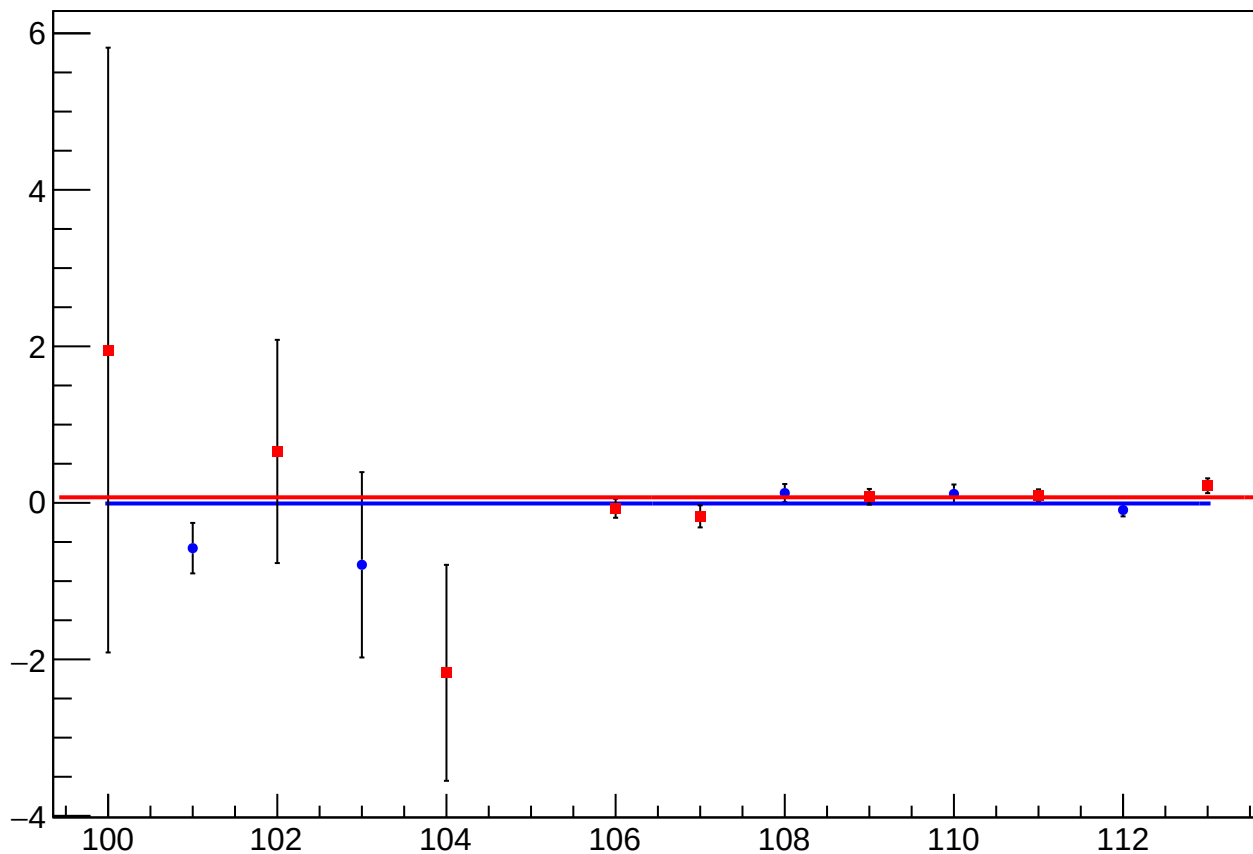
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 536319.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.058  $\chi^2$ /NDF: 6.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.071 $\pm$ 0.044  $\chi^2$ /NDF: 10.0/7

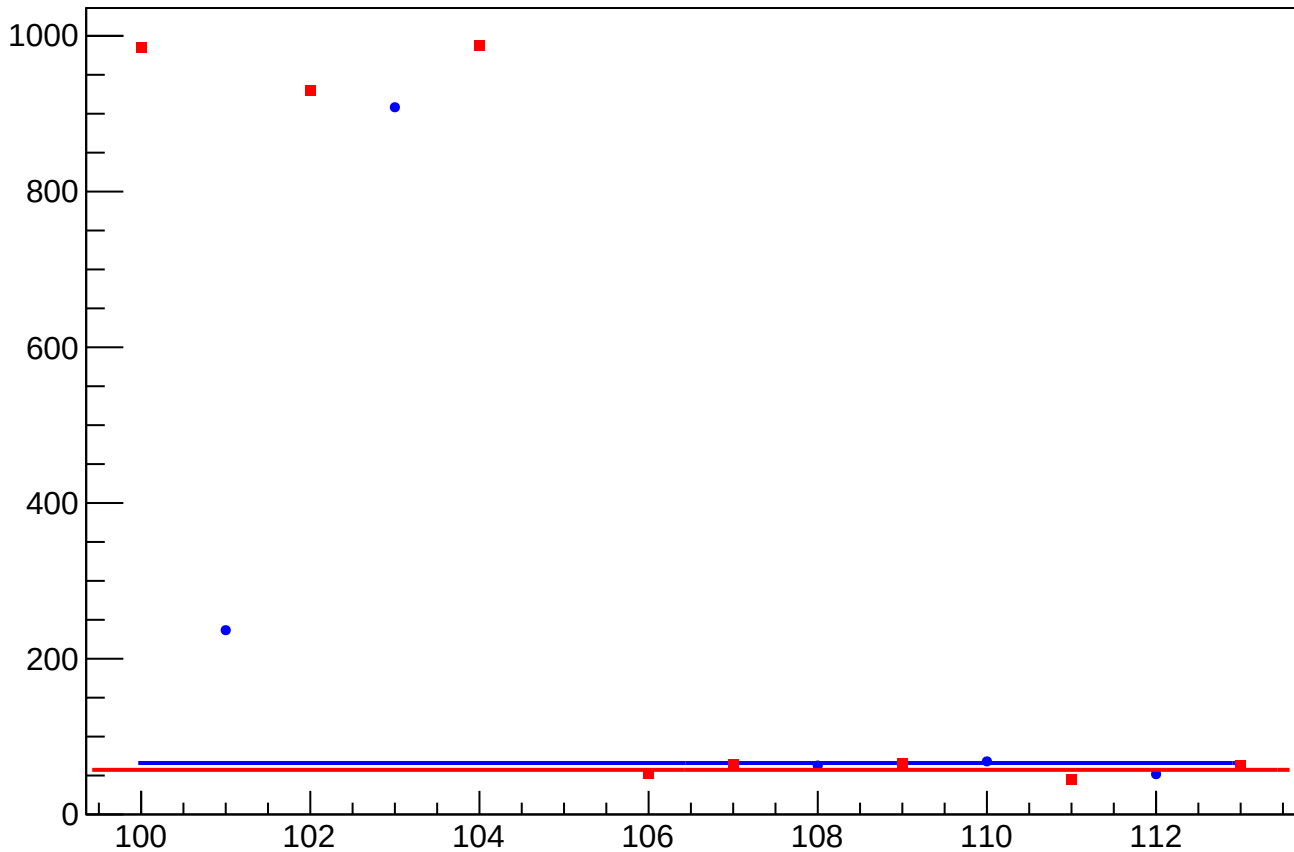
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.042 $\pm$ 0.035  $\chi^2$ /NDF: 18.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 66.102 $\pm$ 0.041  $\chi^2$ /NDF: 1634781.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 57.307 $\pm$ 0.031  $\chi^2$ /NDF: 1865075.0/7

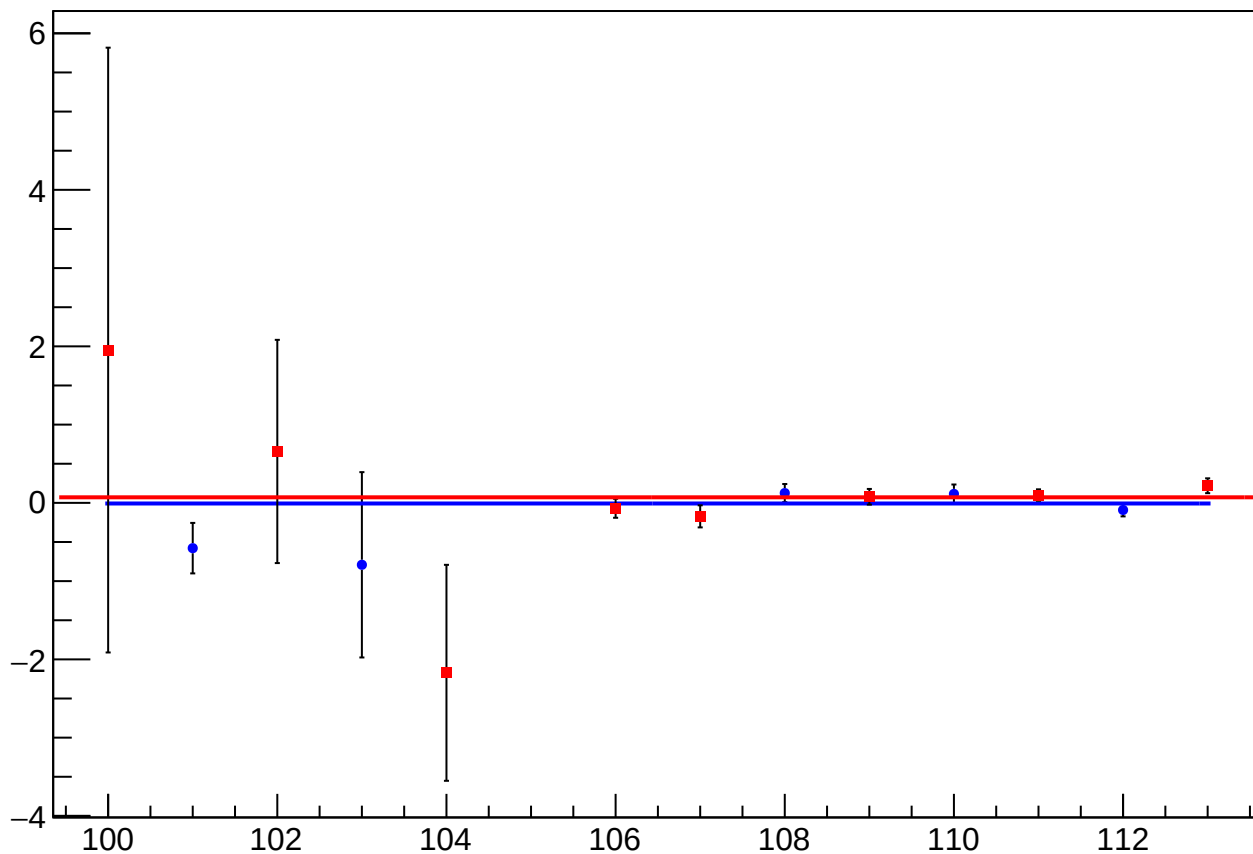
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 60.549 $\pm$ 0.025  $\chi^2$ /NDF: 3529388.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.058  $\chi^2$ /NDF: 6.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.071 $\pm$ 0.044  $\chi^2$ /NDF: 10.0/7

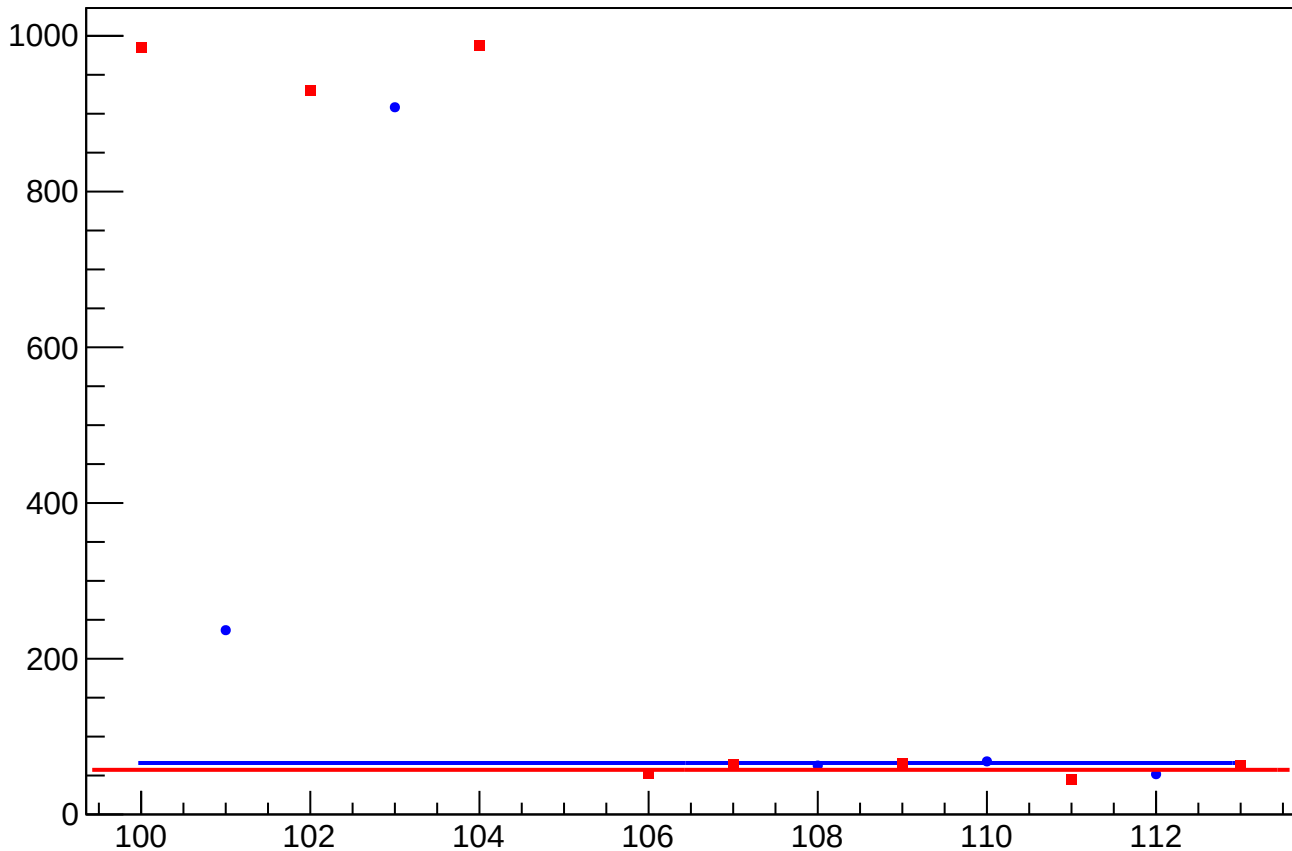
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.042 $\pm$ 0.035  $\chi^2$ /NDF: 18.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 66.102 $\pm$ 0.041  $\chi^2$ /NDF: 1634781.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 57.307 $\pm$ 0.031  $\chi^2$ /NDF: 1865075.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

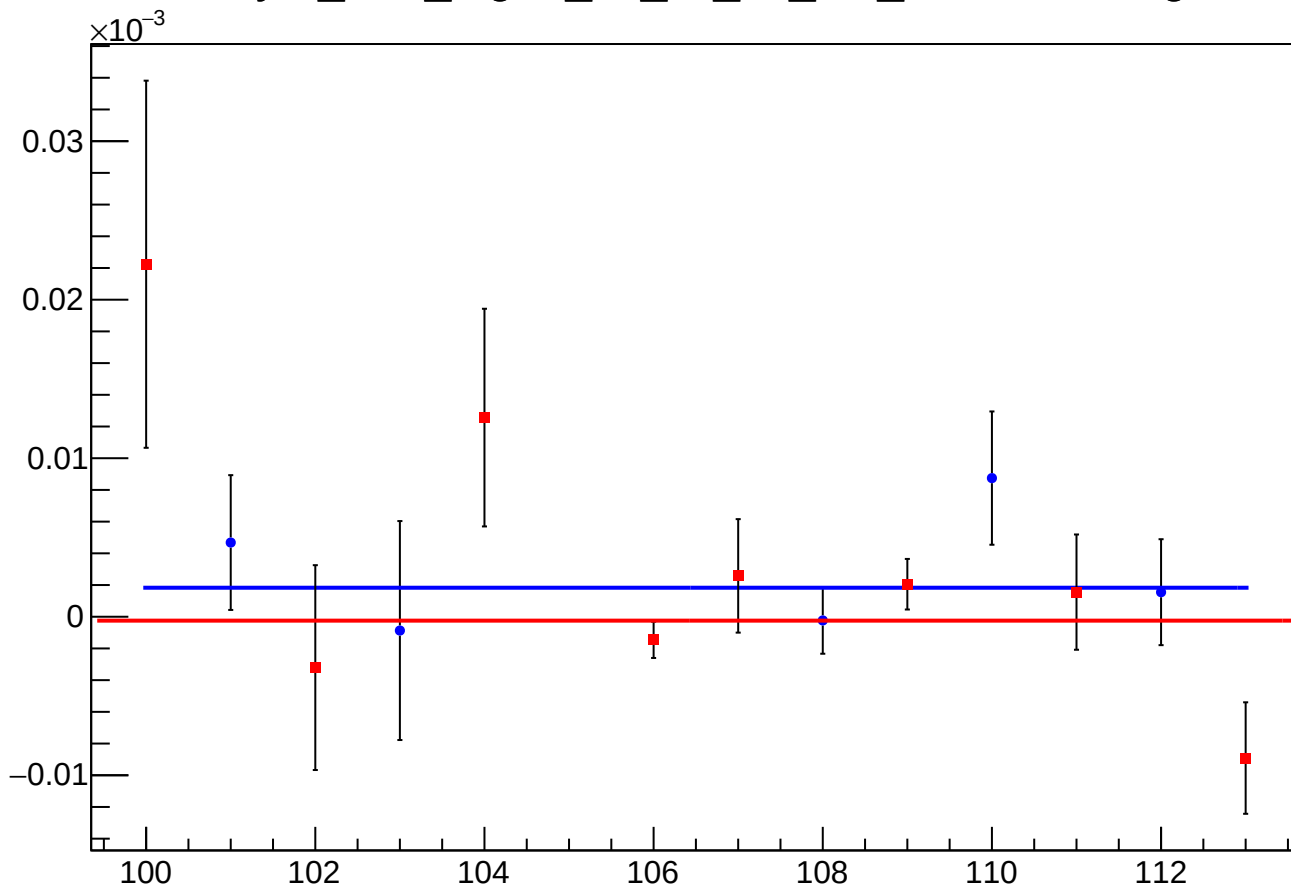
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 60.549 $\pm$ 0.025  $\chi^2$ /NDF: 3529388.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_atr1\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.6/7

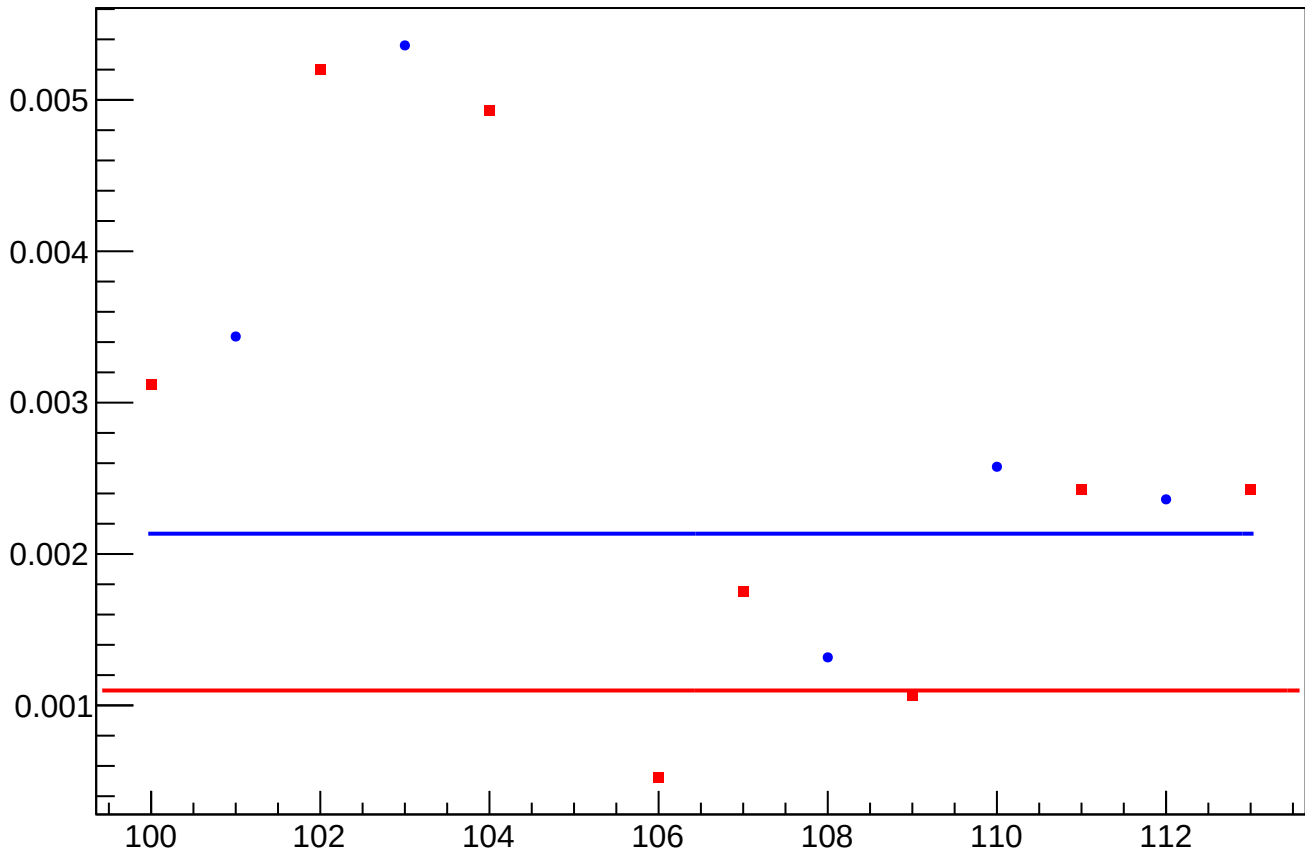
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 23.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 957758.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2616364.4/7

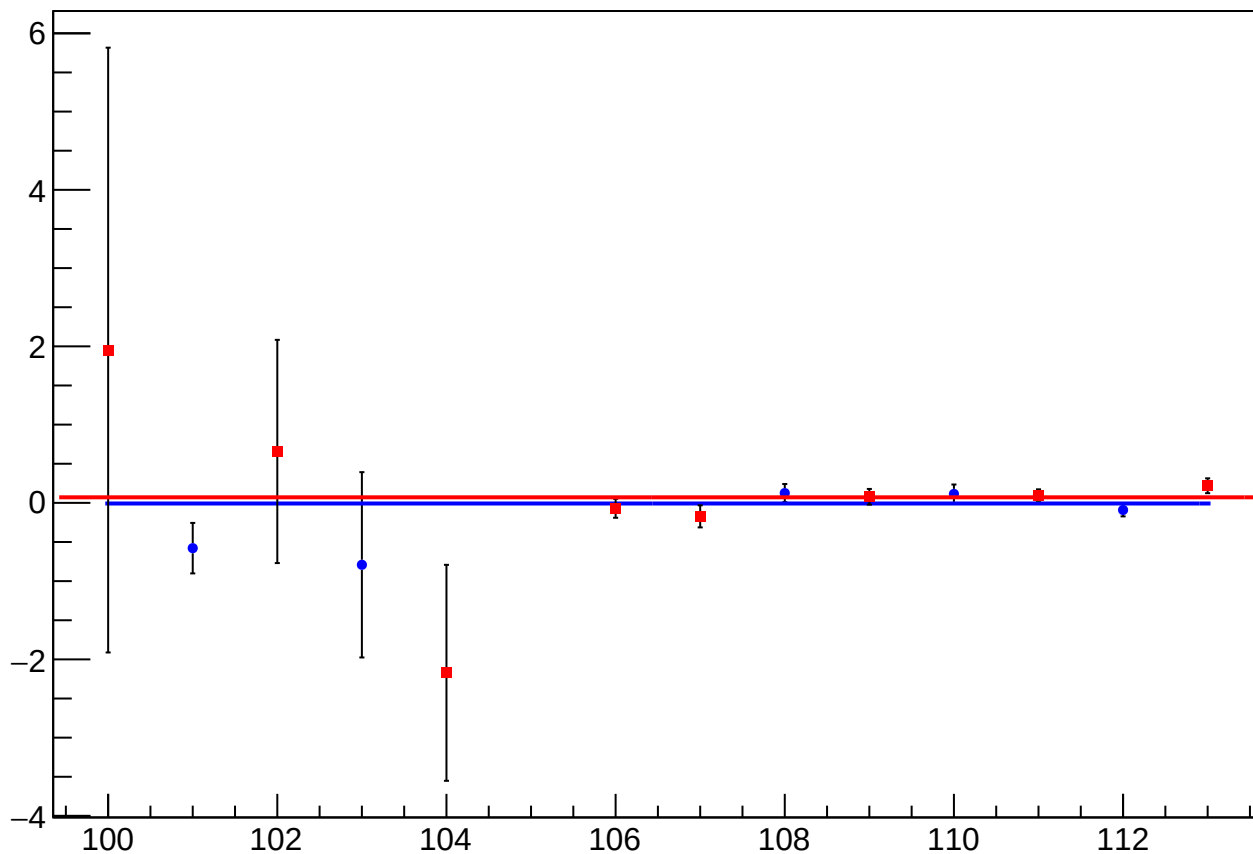
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4309194.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.058  $\chi^2$ /NDF: 6.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.071 $\pm$ 0.044  $\chi^2$ /NDF: 10.0/7

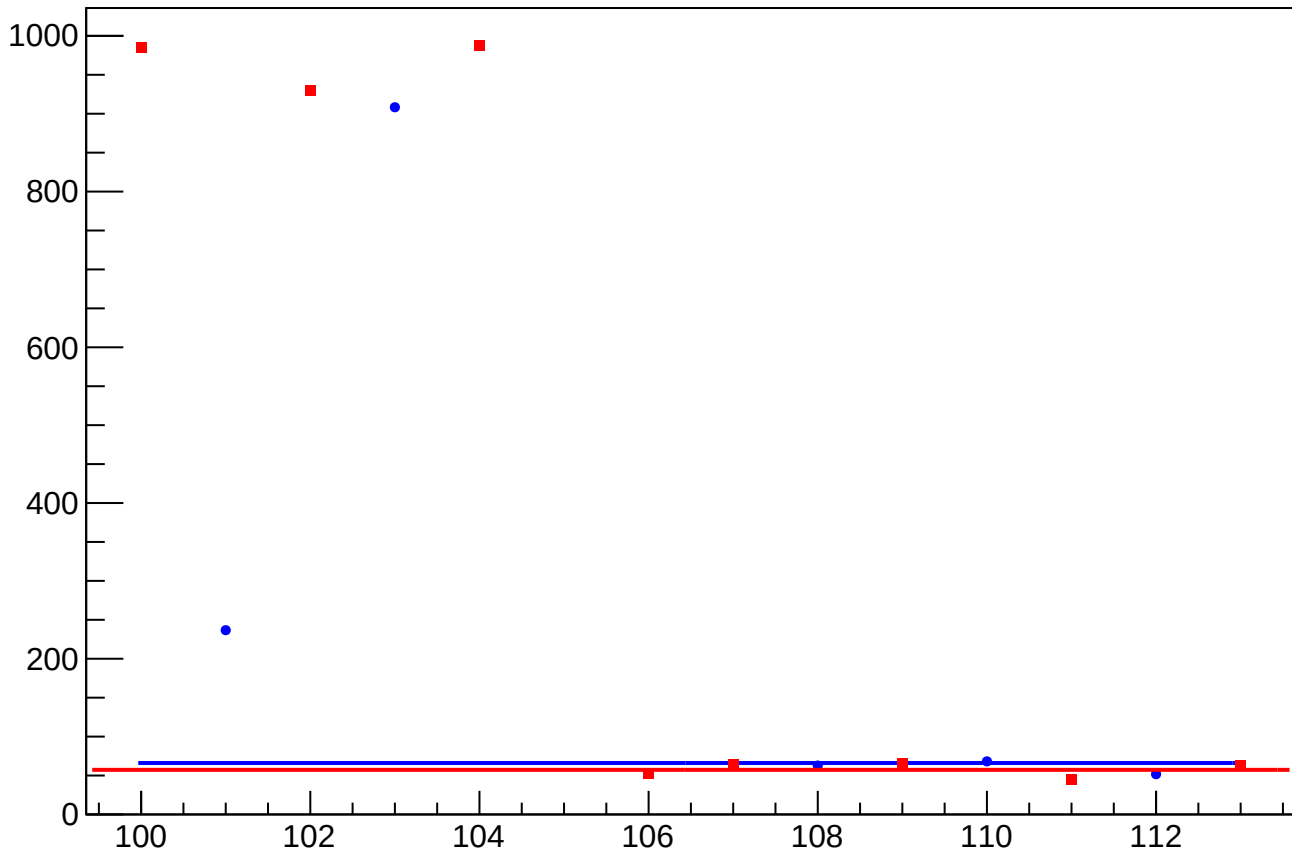
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.042 $\pm$ 0.035  $\chi^2$ /NDF: 18.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 66.102 $\pm$ 0.041  $\chi^2$ /NDF: 1634784.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 57.307 $\pm$ 0.031  $\chi^2$ /NDF: 1865075.0/7

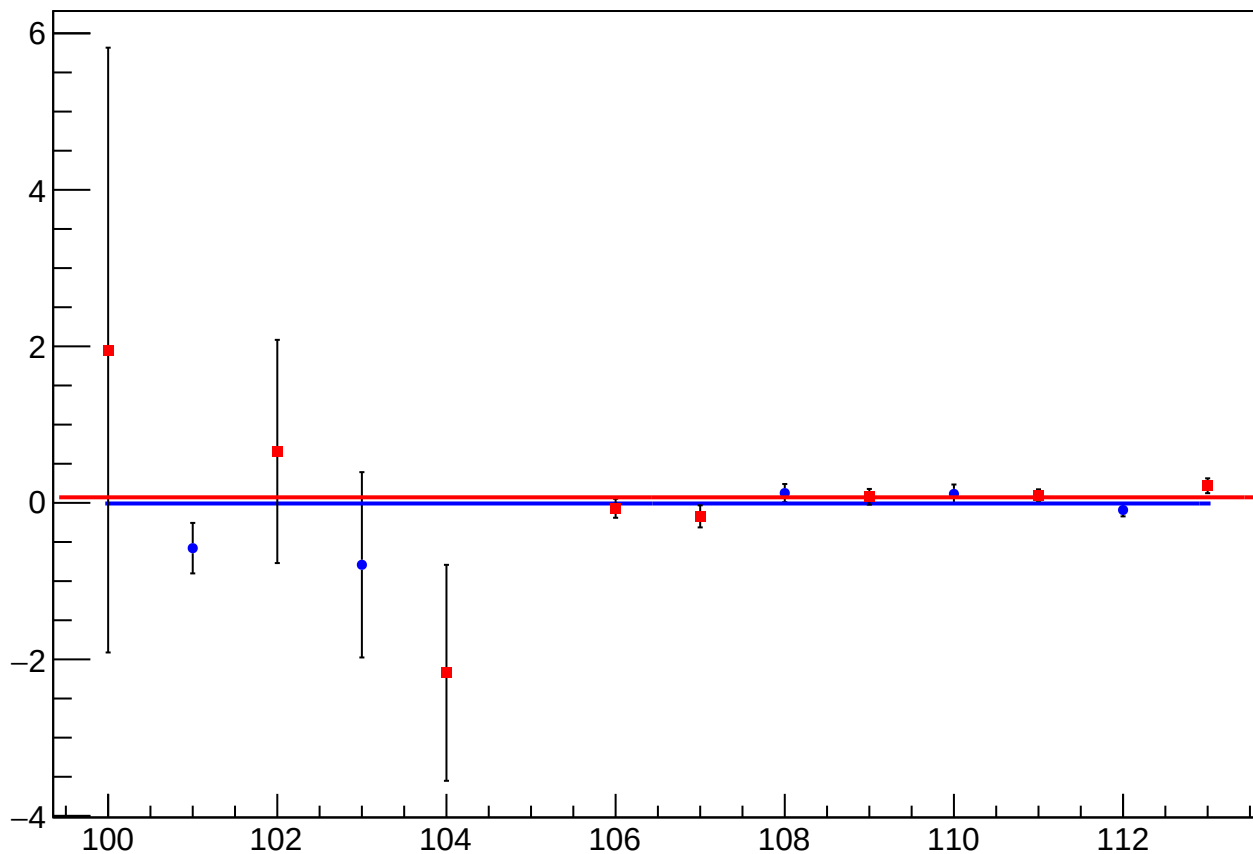
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 60.549 $\pm$ 0.025  $\chi^2$ /NDF: 3529394.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.058  $\chi^2$ /NDF: 6.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.071 $\pm$ 0.044  $\chi^2$ /NDF: 10.0/7

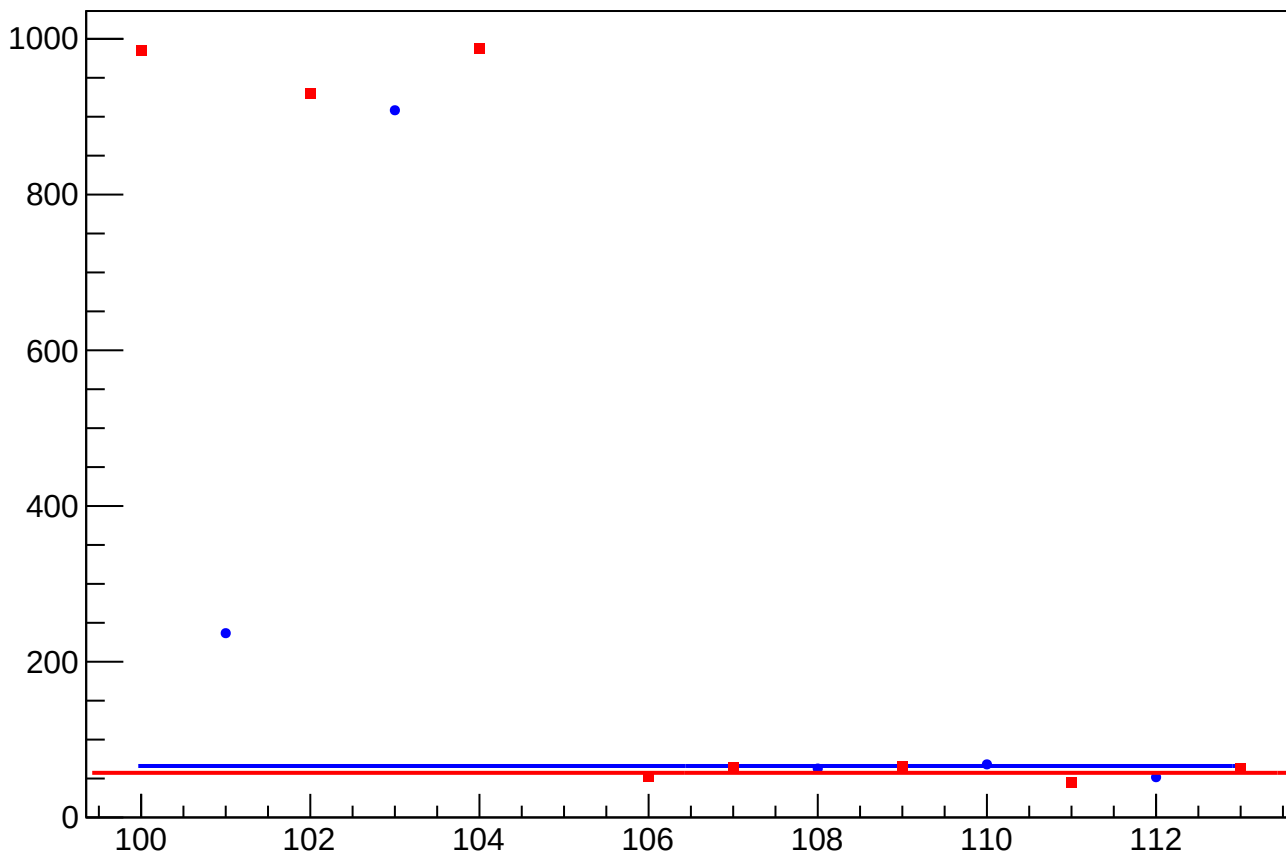
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.042 $\pm$ 0.035  $\chi^2$ /NDF: 18.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 66.102 $\pm$ 0.041  $\chi^2$ /NDF: 1634784.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 57.307 $\pm$ 0.031  $\chi^2$ /NDF: 1865075.0/7

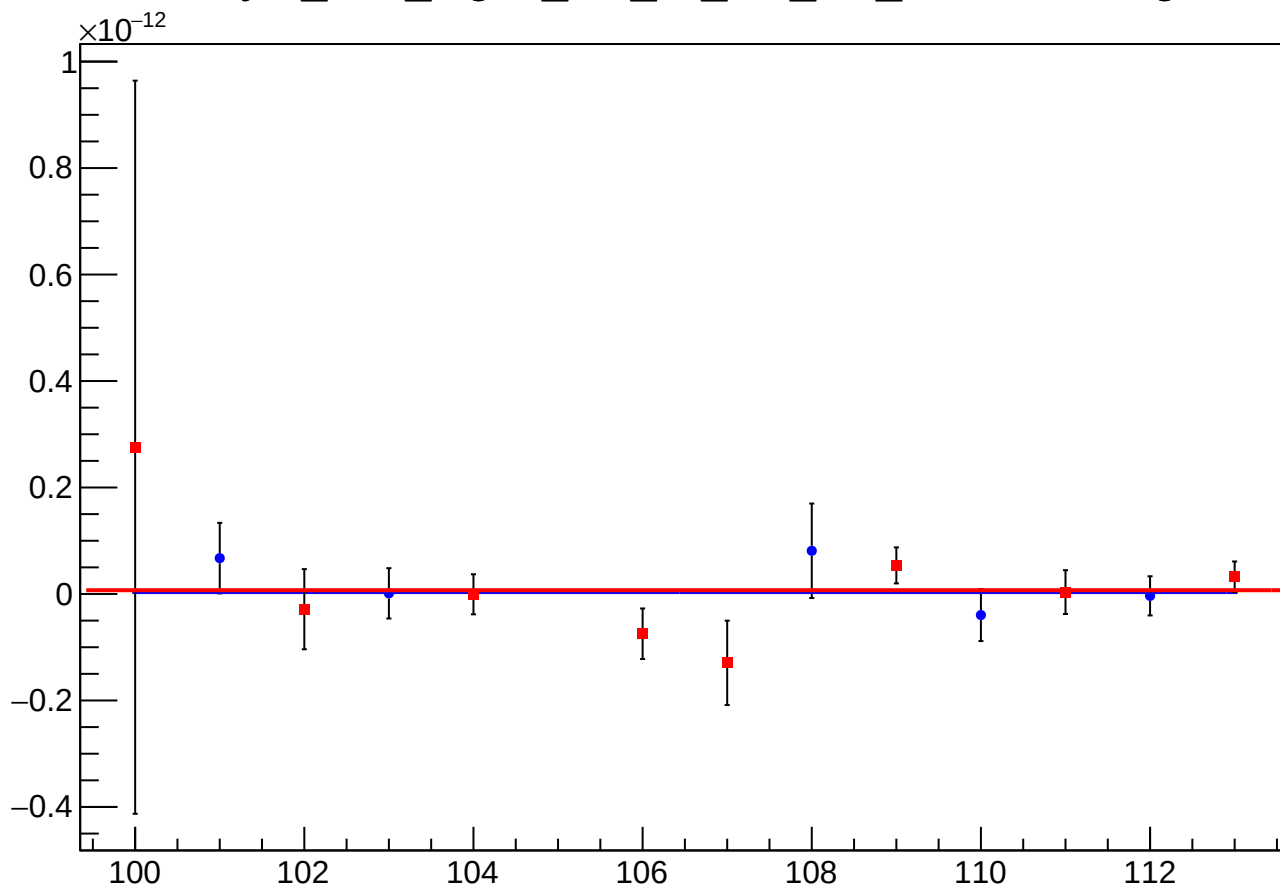
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 60.549 $\pm$ 0.025  $\chi^2$ /NDF: 3529394.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.0/7

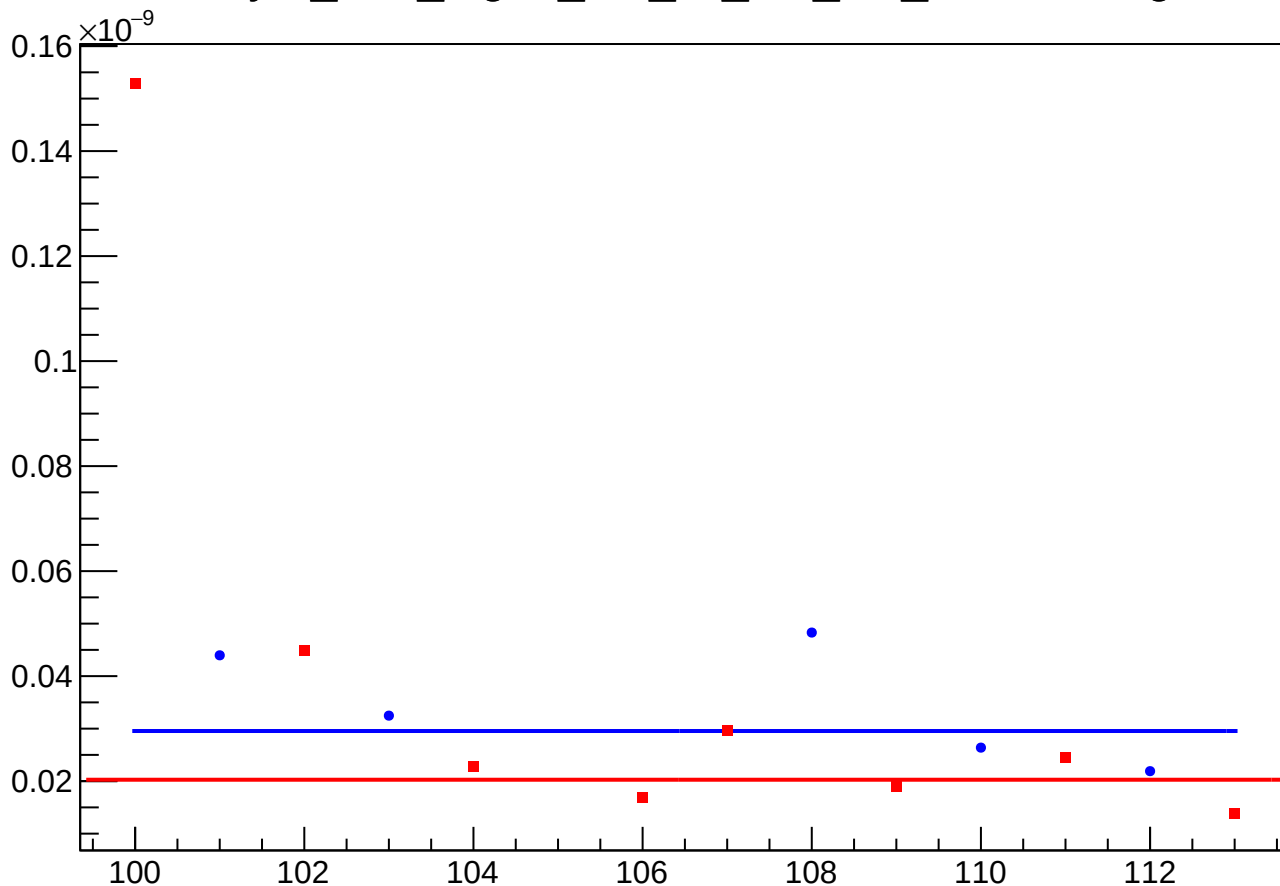
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 286529.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 461502.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

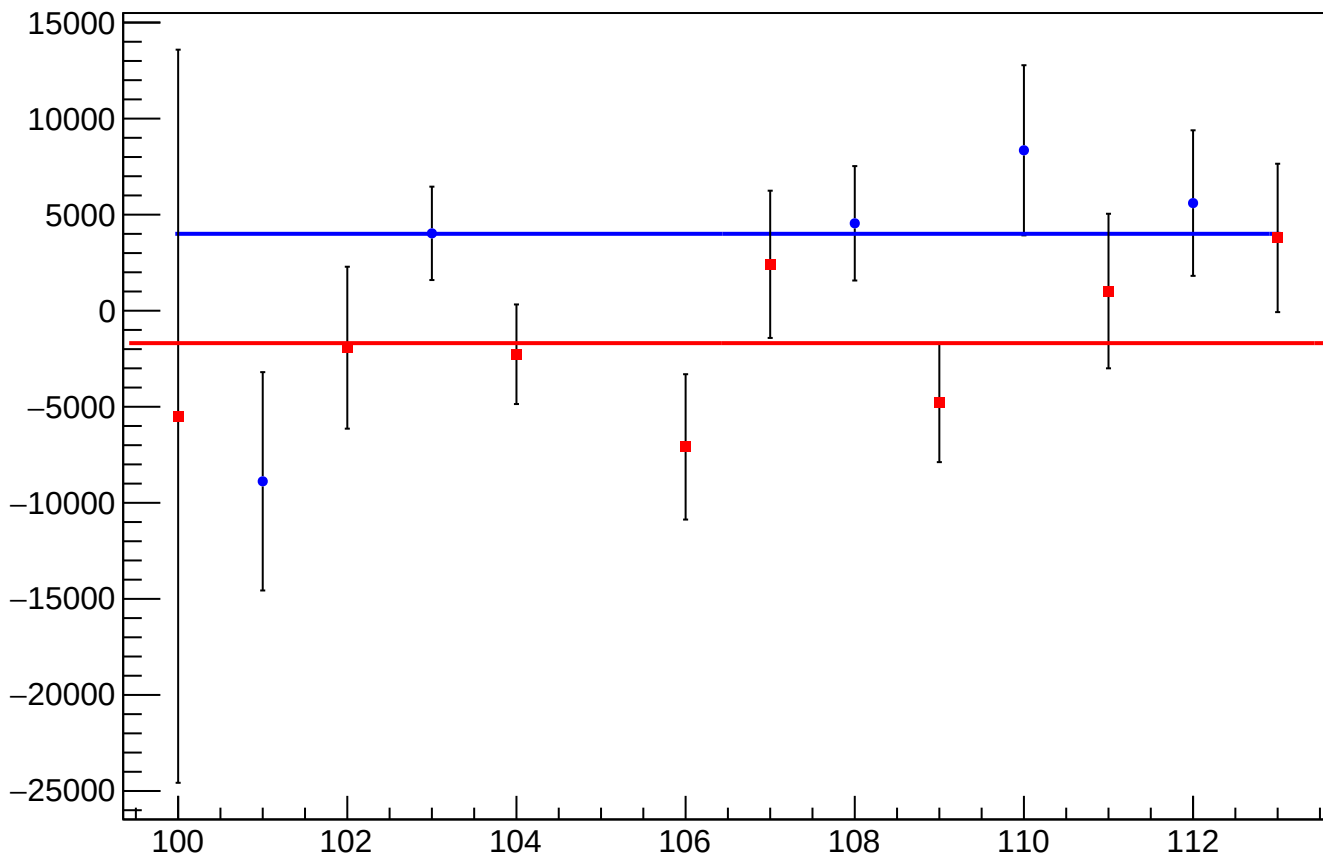
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 977460.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atr2\_mean vs Slug



Right In: 4002.852+/-1518.438  $\chi^2/\text{NDF}$ : 6.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1687.659+/-1313.343  $\chi^2/\text{NDF}$ : 6.8/7

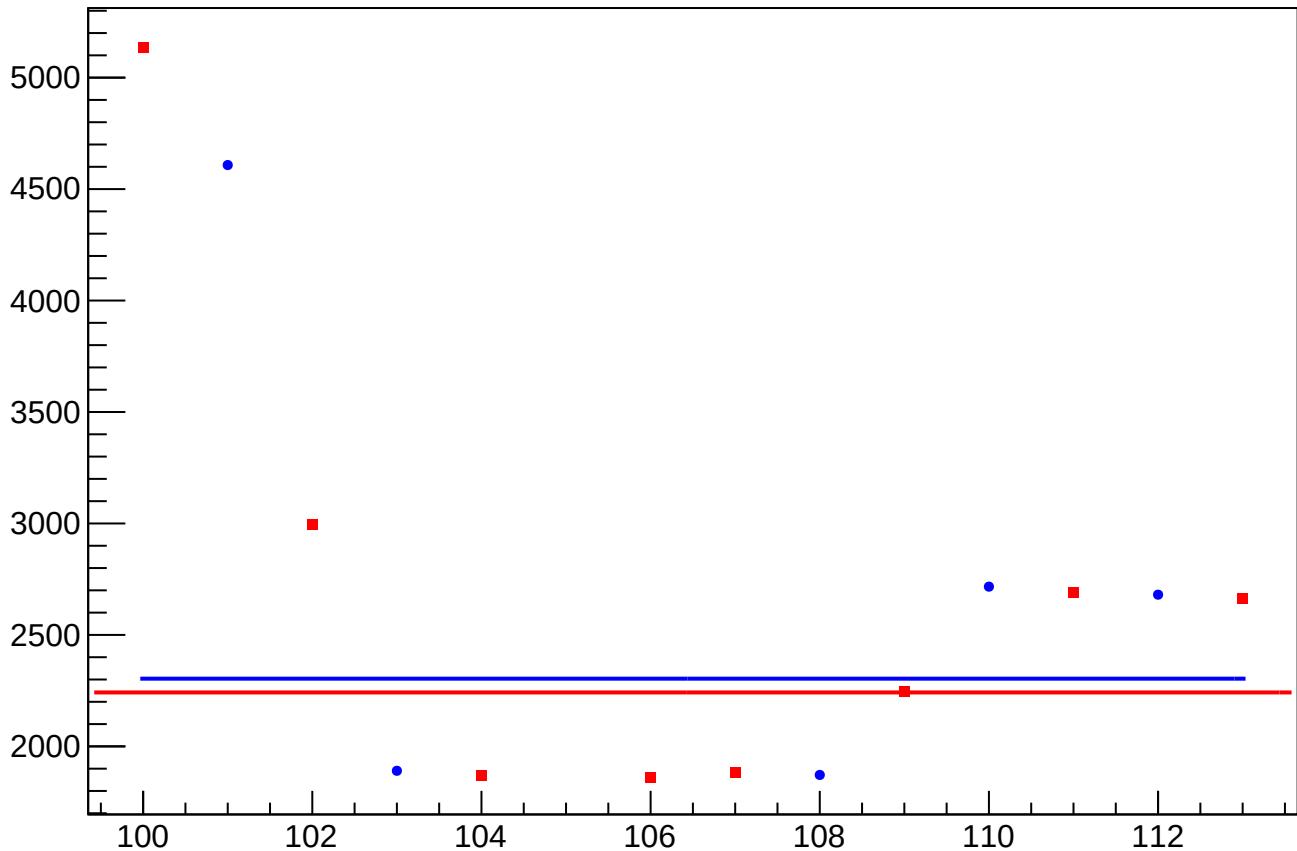
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 747.605+/-993.332  $\chi^2/\text{NDF}$ : 21.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr2\_rms vs Slug



Right In: 2303.767+/-1.074  $\chi^2/\text{NDF}$ : 465838.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2241.934+/-0.929  $\chi^2/\text{NDF}$ : 238475.5/7

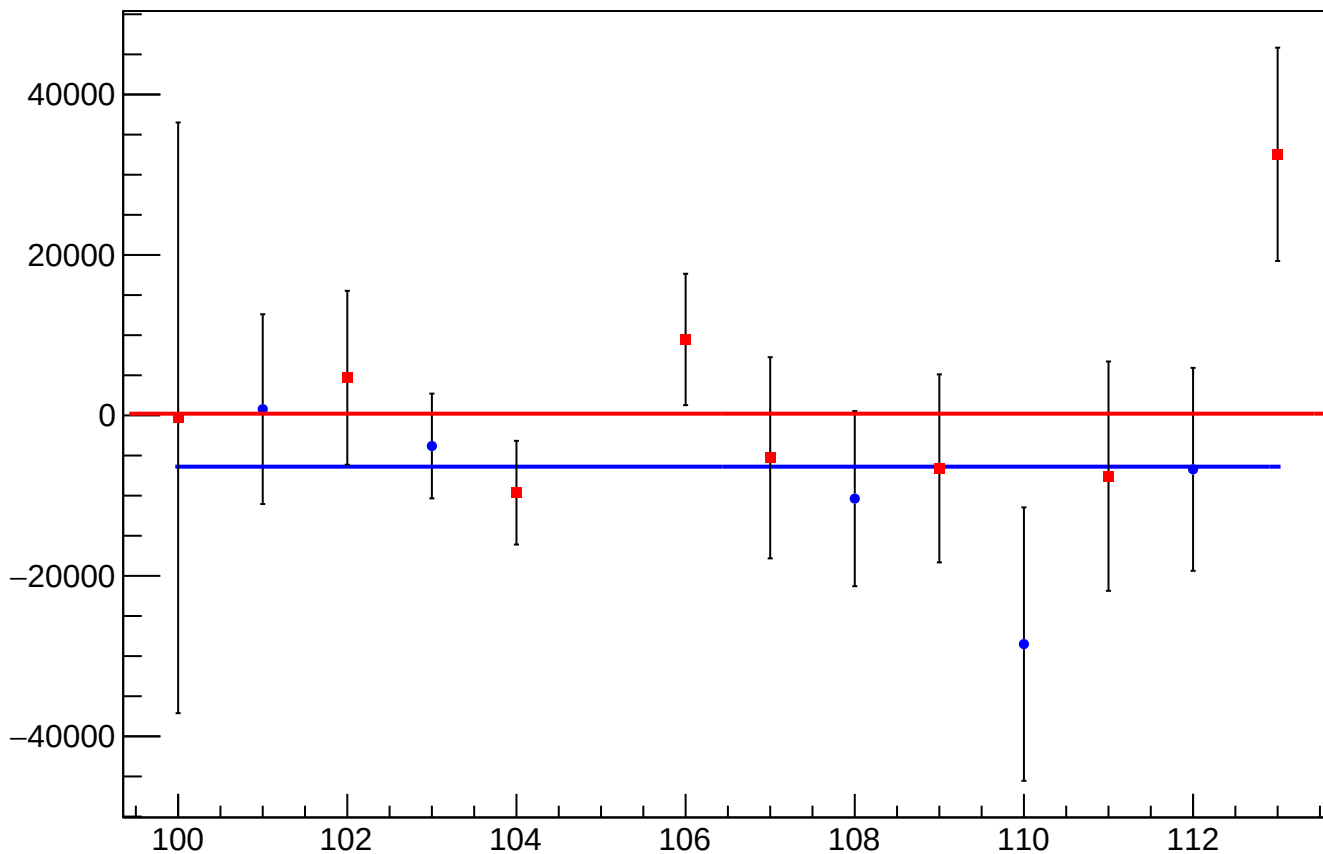
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2268.396+/-0.702  $\chi^2/\text{NDF}$ : 706211.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_reg\_correction\_mean vs Slug



Right In: -6387.947+/-4530.979  $\chi^2/\text{NDF}$ : 2.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 216.856+/-3718.759  $\chi^2/\text{NDF}$ : 10.5/7

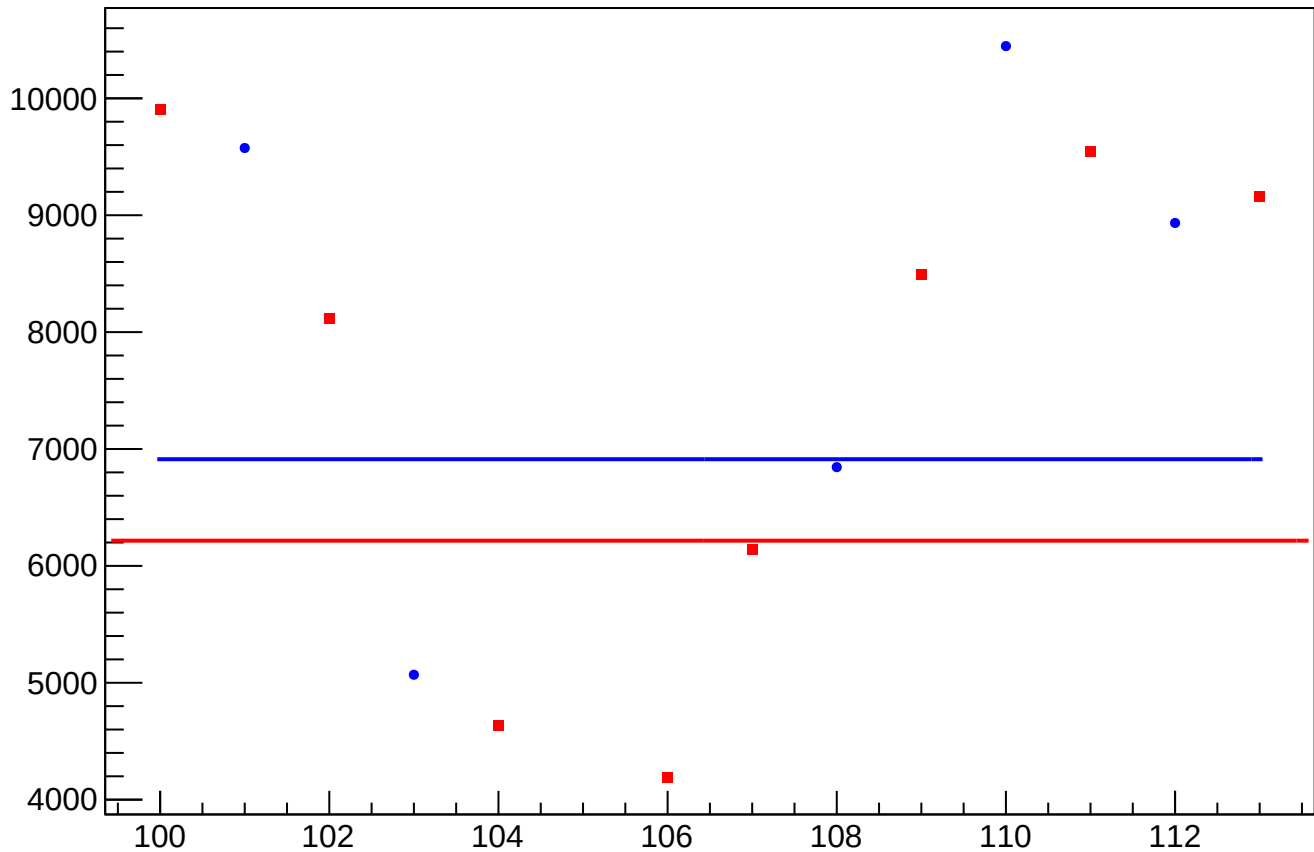
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2441.519+/-2874.552  $\chi^2/\text{NDF}$ : 14.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_reg\_correction\_rms vs Slug



Right In: 6912.646+/-3.204  $\chi^2/\text{NDF}$ : 398143.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6215.794+/-2.630  $\chi^2/\text{NDF}$ : 606564.1/7

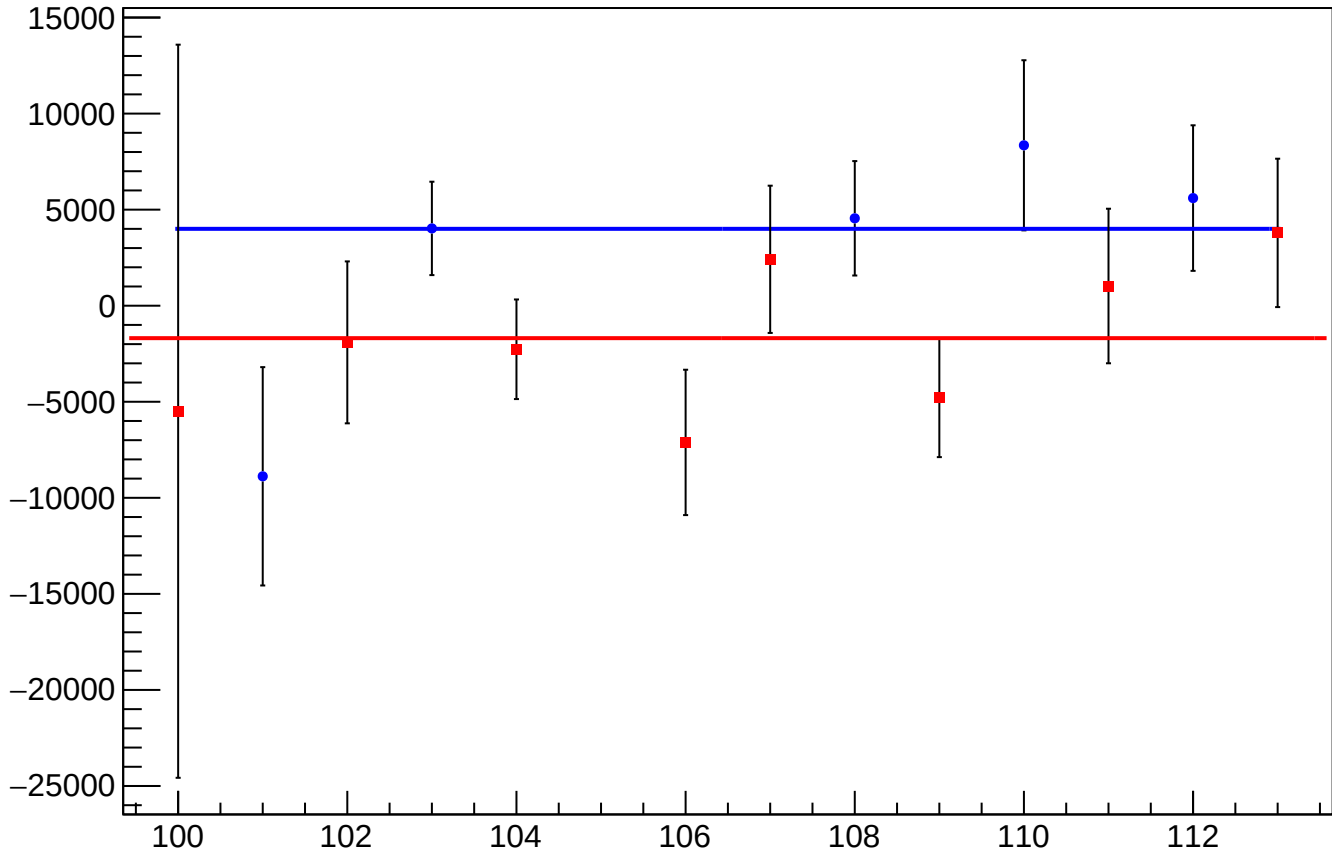
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6496.271+/-2.033  $\chi^2/\text{NDF}$ : 1032974.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atr2\_mean vs Slug



Right In: 4001.453+/-1518.439  $\chi^2/\text{NDF}$ : 6.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1689.154+/-1313.364  $\chi^2/\text{NDF}$ : 6.8/7

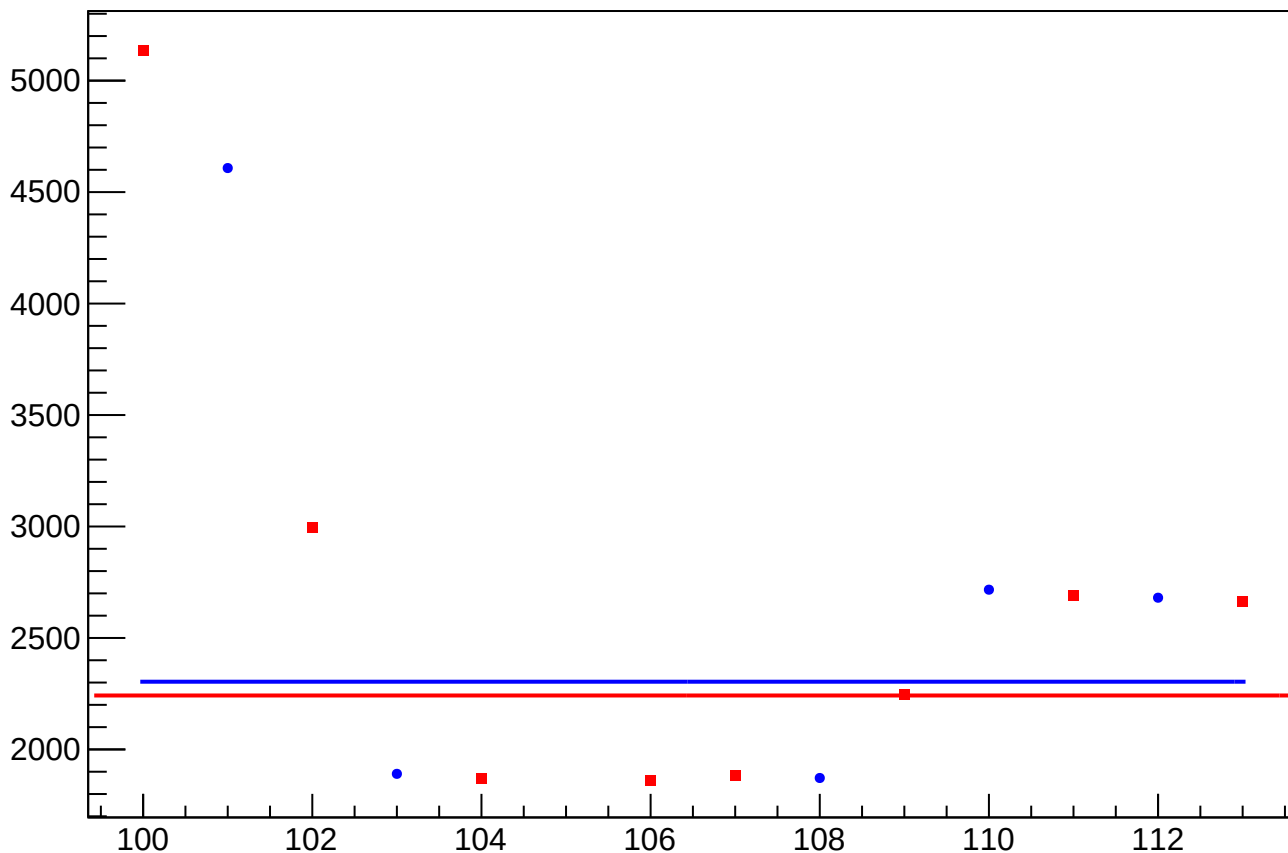
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 746.194+/-993.342  $\chi^2/\text{NDF}$ : 21.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atr2\_rms vs Slug



Right In: 2303.770+/-1.074  $\chi^2/\text{NDF}$ : 465837.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2241.977+/-0.929  $\chi^2/\text{NDF}$ : 238443.2/7

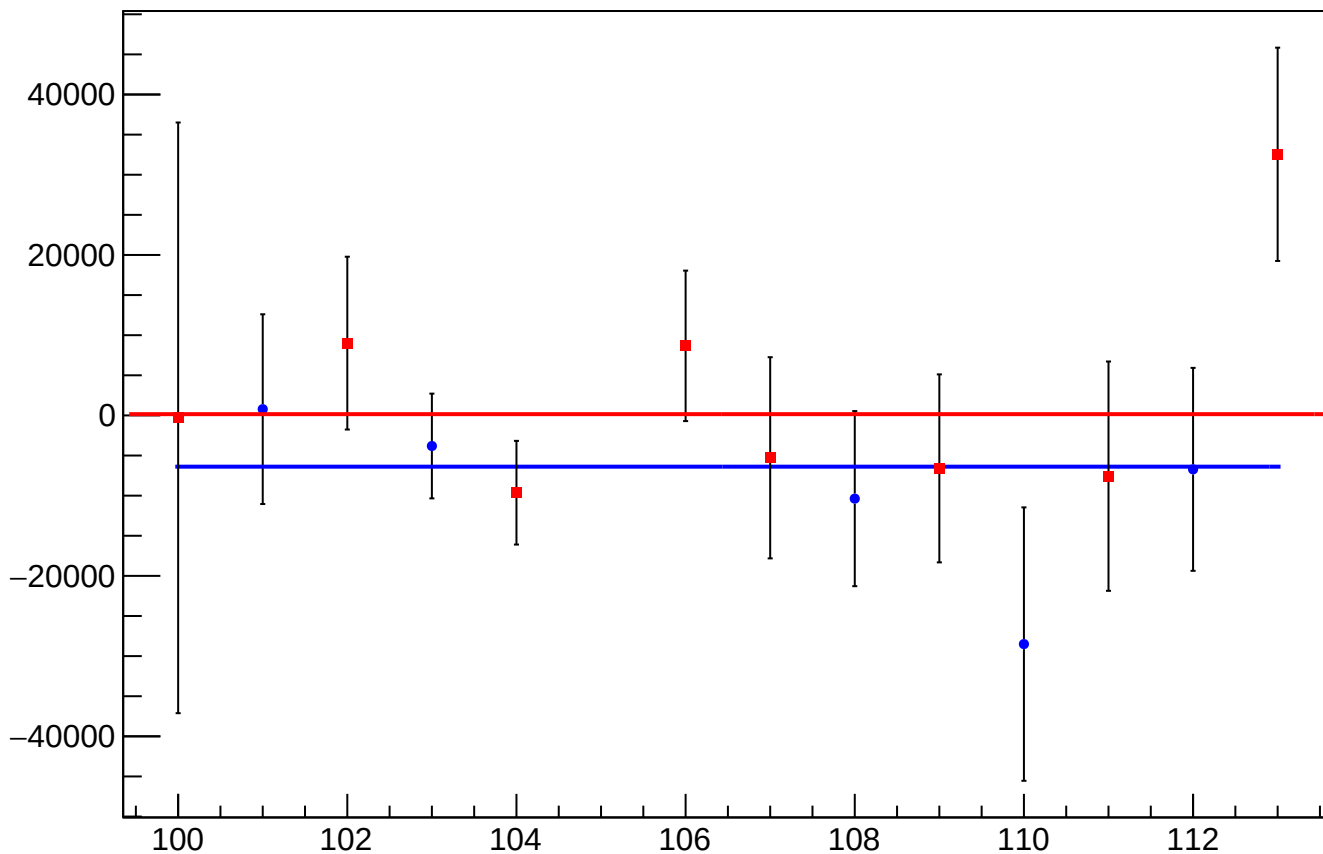
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2268.422+/-0.702  $\chi^2/\text{NDF}$ : 706175.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_cor\_correction\_mean vs Slug



Right In: -6387.946+/-4531.263  $\chi^2/\text{NDF}$ : 2.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 157.525+/-3810.350  $\chi^2/\text{NDF}$ : 10.5/7

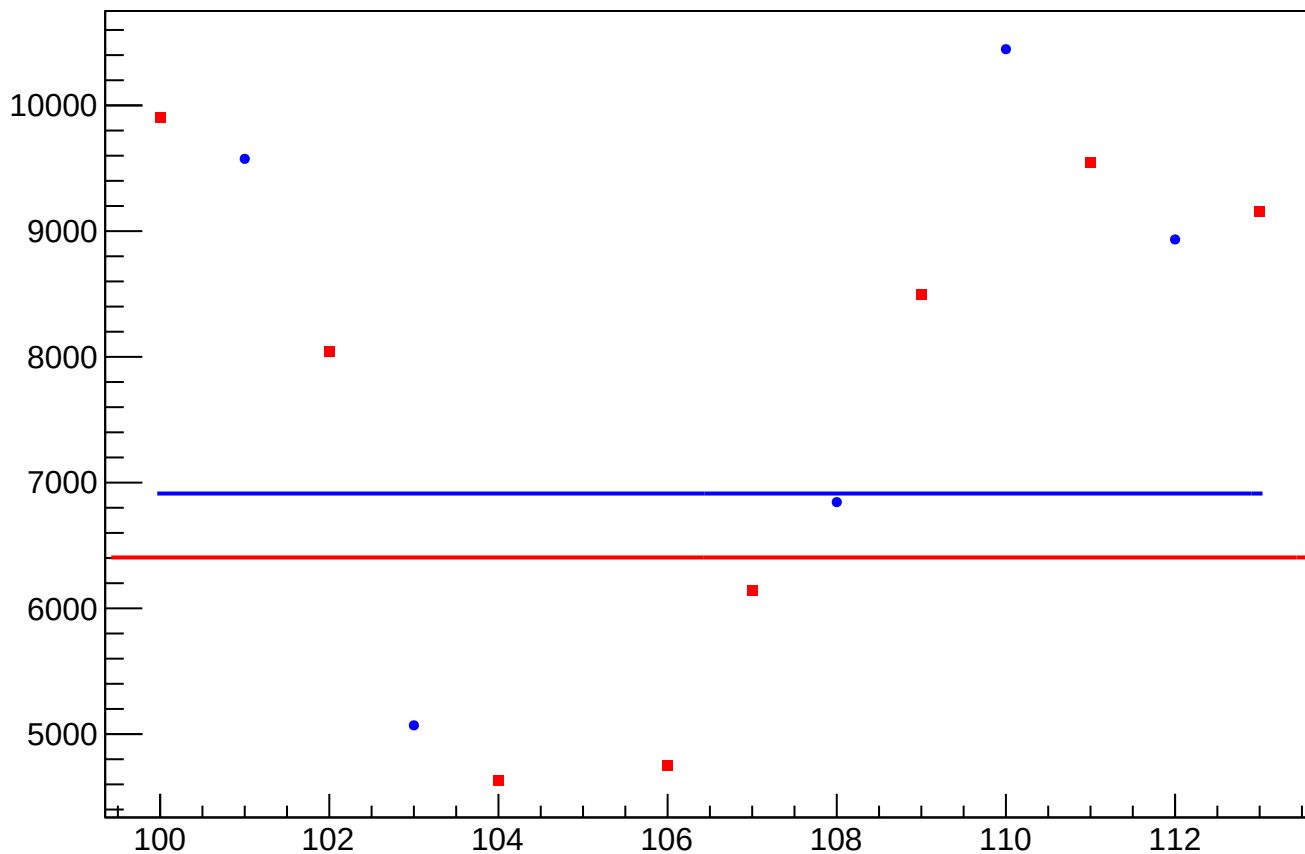
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2553.720+/-2916.307  $\chi^2/\text{NDF}$ : 14.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_cor\_correction\_rms vs Slug



Right In: 6913.221+/-3.204  $\chi^2/\text{NDF}$ : 397976.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6404.851+/-2.694  $\chi^2/\text{NDF}$ : 524607.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

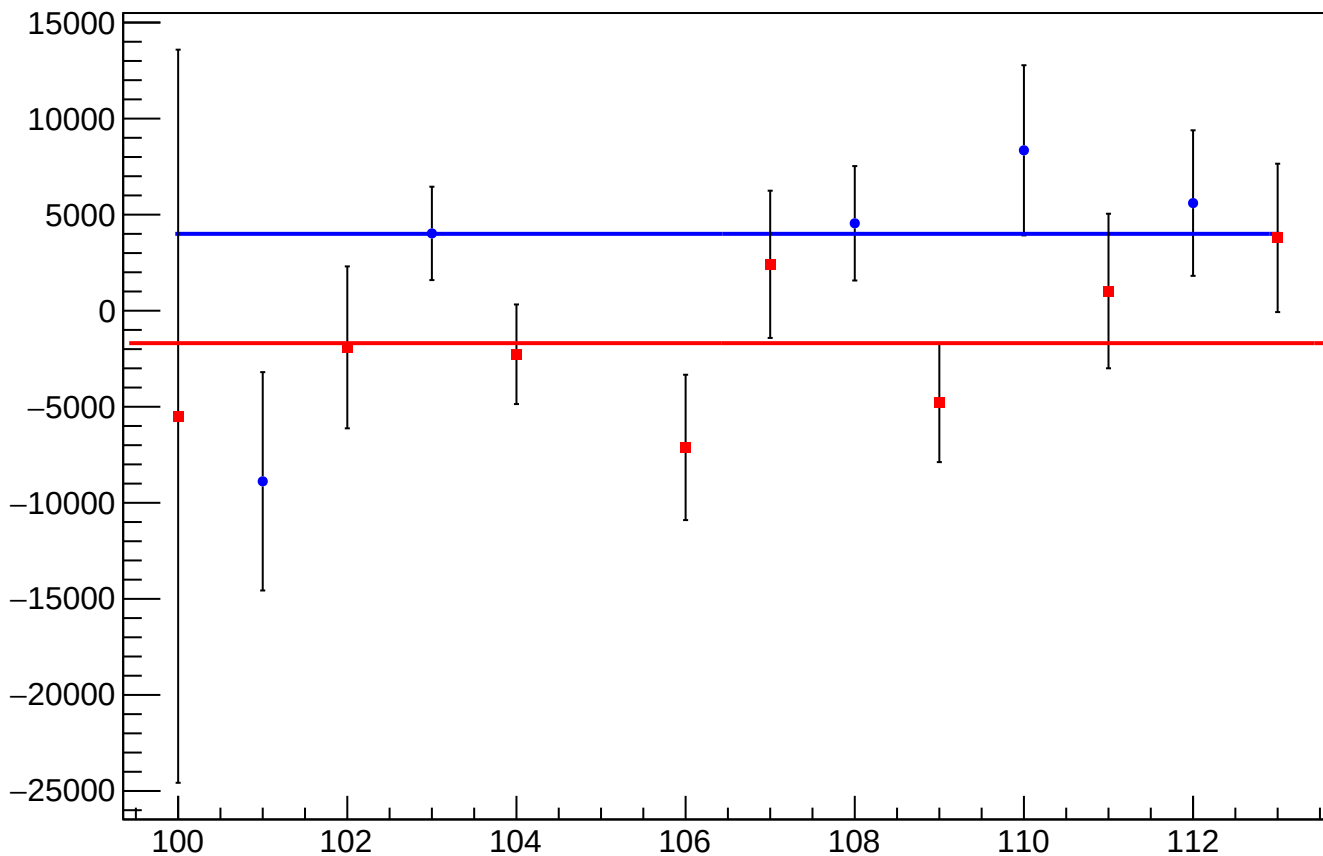
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6615.426+/-2.062  $\chi^2/\text{NDF}$ : 937330.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_atr2\_mean vs Slug



Right In: 4001.453+/-1518.439  $\chi^2/\text{NDF}$ : 6.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1689.154+/-1313.364  $\chi^2/\text{NDF}$ : 6.8/7

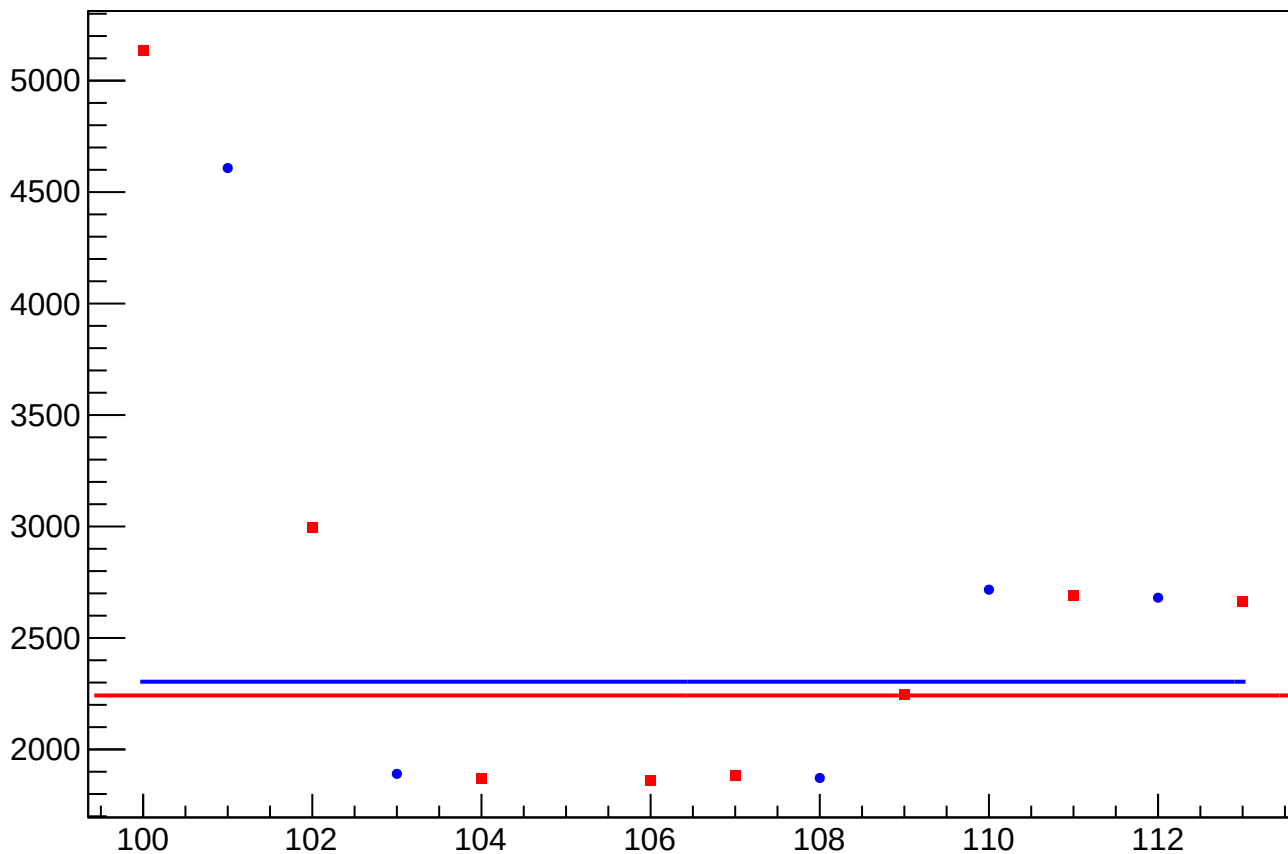
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 746.194+/-993.342  $\chi^2/\text{NDF}$ : 21.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr2\_rms vs Slug



Right In: 2303.770+/-1.074  $\chi^2/\text{NDF}$ : 465837.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2241.977+/-0.929  $\chi^2/\text{NDF}$ : 238443.2/7

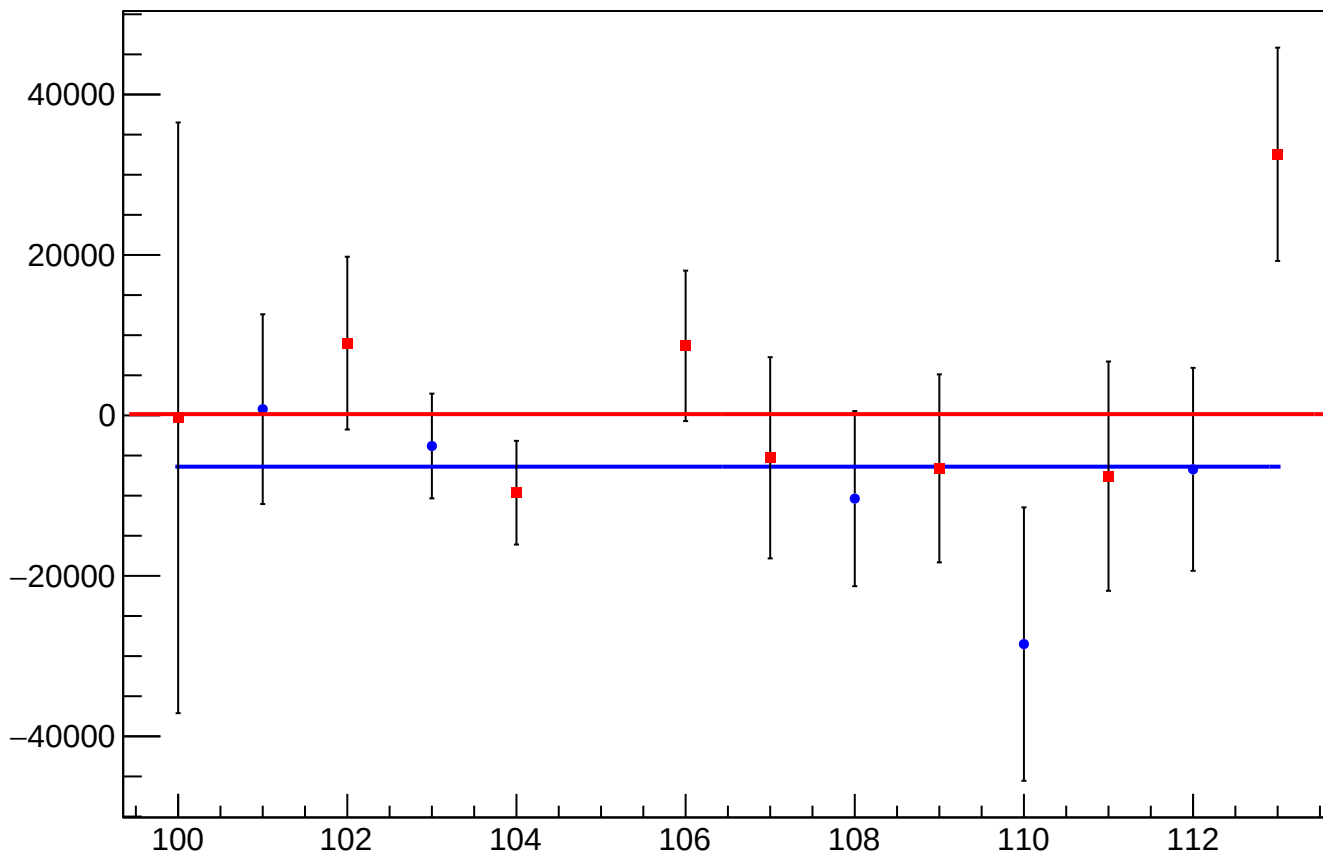
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2268.422+/-0.702  $\chi^2/\text{NDF}$ : 706175.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_cor\_correction\_mean vs Slug



Right In: -6387.946+/-4531.263  $\chi^2$ /NDF: 2.3/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 157.525+/-3810.350  $\chi^2$ /NDF: 10.5/7

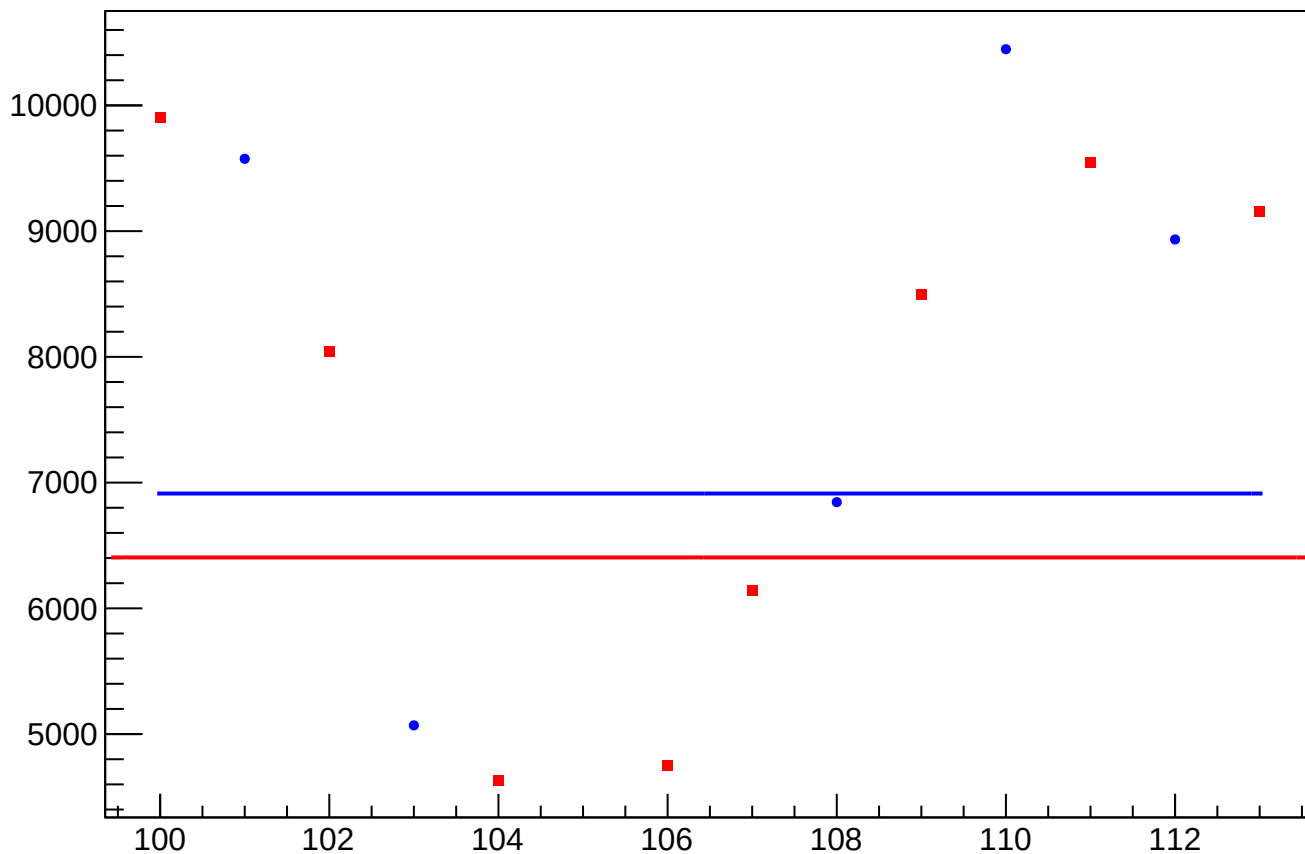
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -2553.720+/-2916.307  $\chi^2$ /NDF: 14.1/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_eigen\_cor\_correction\_rms vs Slug



Right In: 6913.221+/-3.204  $\chi^2/\text{NDF}$ : 397976.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6404.851+/-2.694  $\chi^2/\text{NDF}$ : 524607.5/7

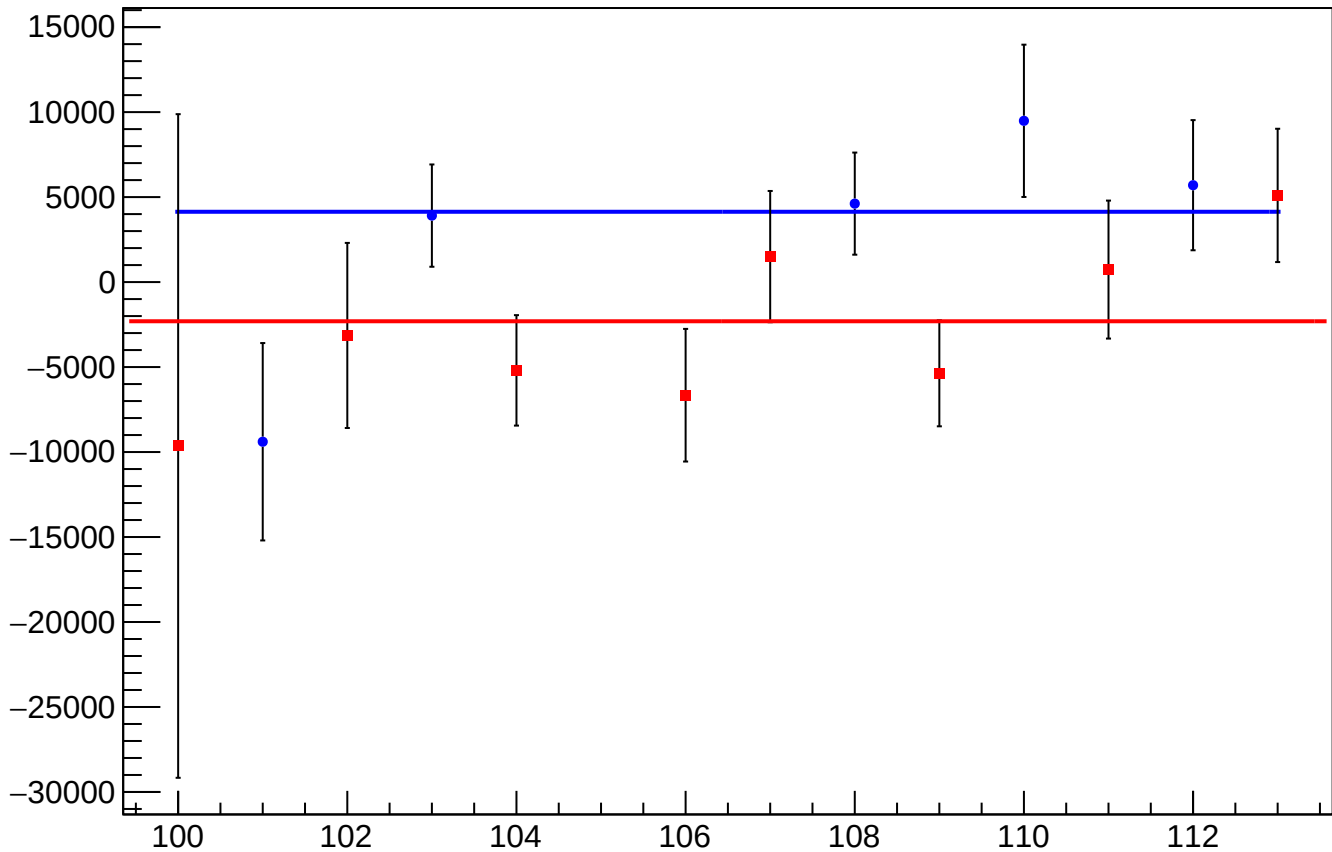
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6615.426+/-2.062  $\chi^2/\text{NDF}$ : 937330.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atr2\_mean vs Slug



Right In: 4136.776+/-1646.400  $\chi^2/\text{NDF}$ : 7.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2305.706+/-1425.355  $\chi^2/\text{NDF}$ : 8.3/7

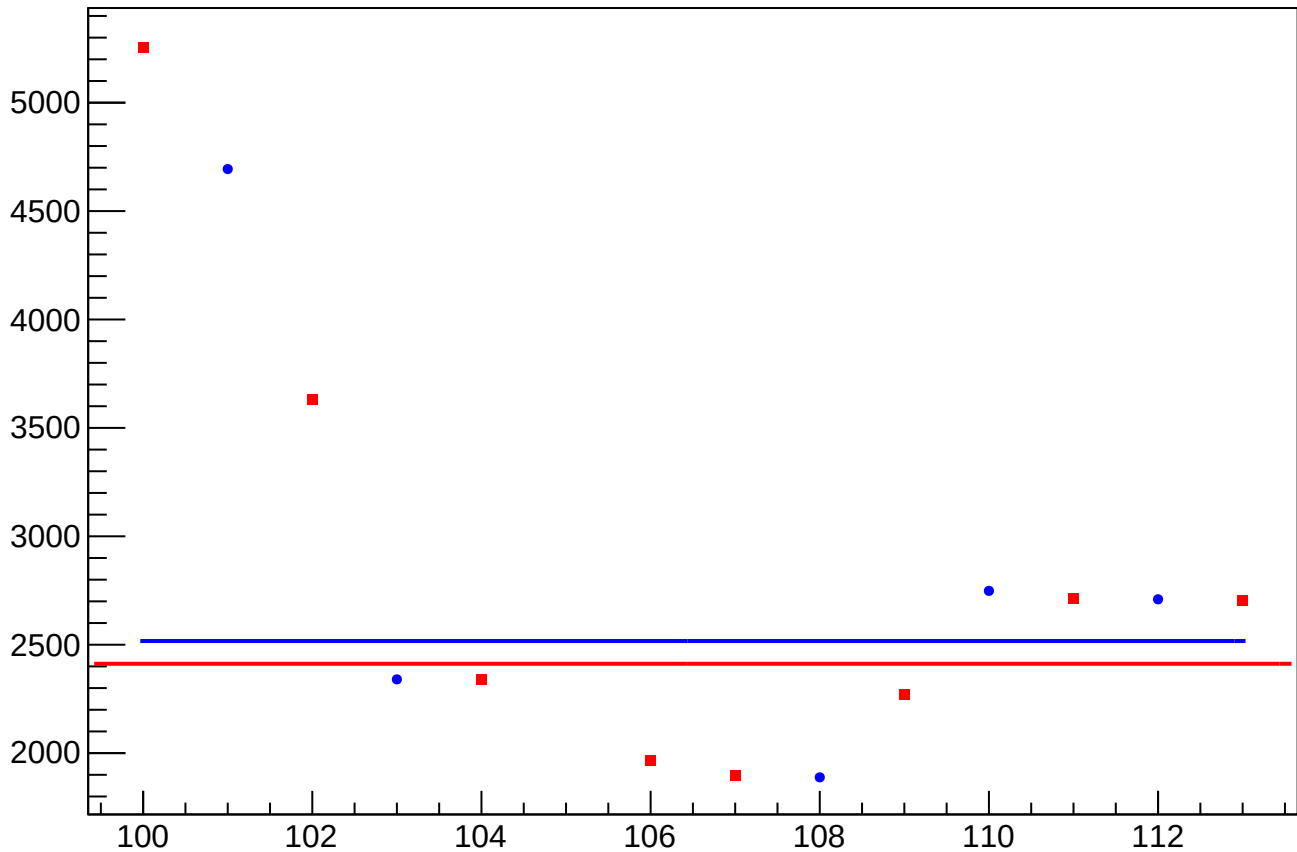
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 454.320+/-1077.619  $\chi^2/\text{NDF}$ : 24.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atr2\_rms vs Slug



Right In: 2517.045+/-1.164  $\chi^2/\text{NDF}$ : 385958.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2412.141+/-1.007  $\chi^2/\text{NDF}$ : 231951.7/7

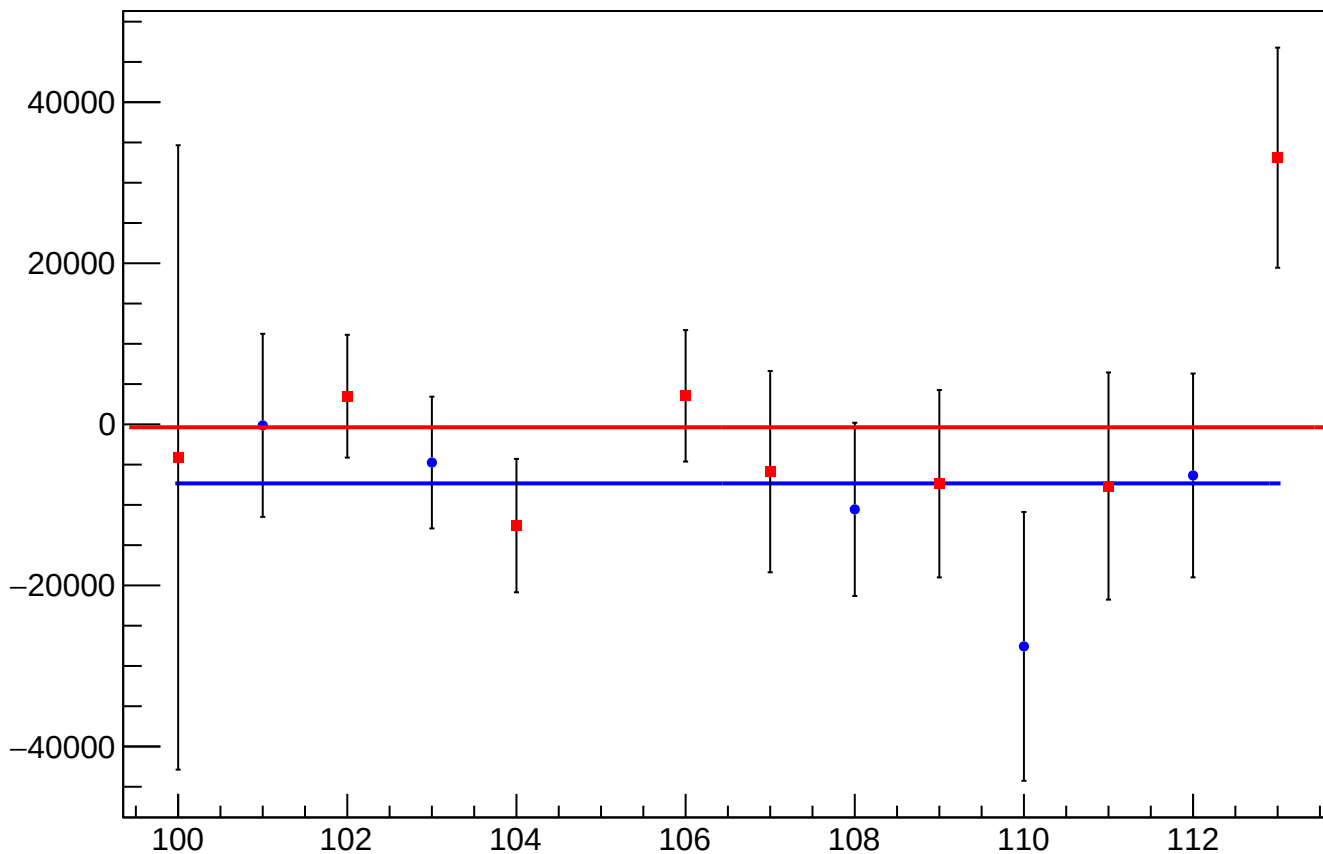
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2457.017+/-0.761  $\chi^2/\text{NDF}$ : 622556.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_dit\_correction\_mean vs Slug



Right In: -7330.837 $\pm$ 4928.963  $\chi^2$ /NDF: 2.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -362.253 $\pm$ 3736.277  $\chi^2$ /NDF: 9.5/7

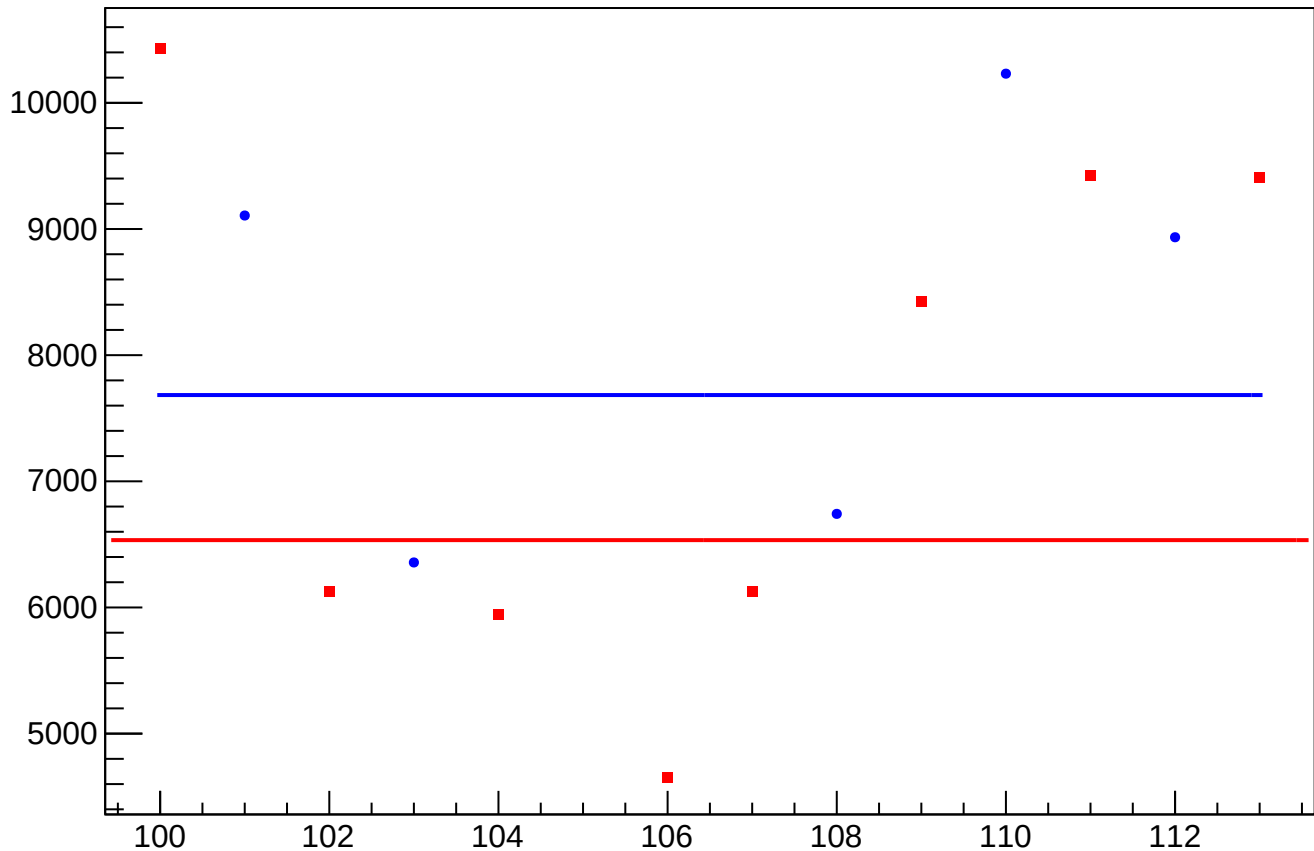
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2905.221 $\pm$ 2977.513  $\chi^2$ /NDF: 12.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_dit\_correction\_rms vs Slug



Right In: 7683.812+/-3.485  $\chi^2/\text{NDF}$ : 165458.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6533.825+/-2.642  $\chi^2/\text{NDF}$ : 369366.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

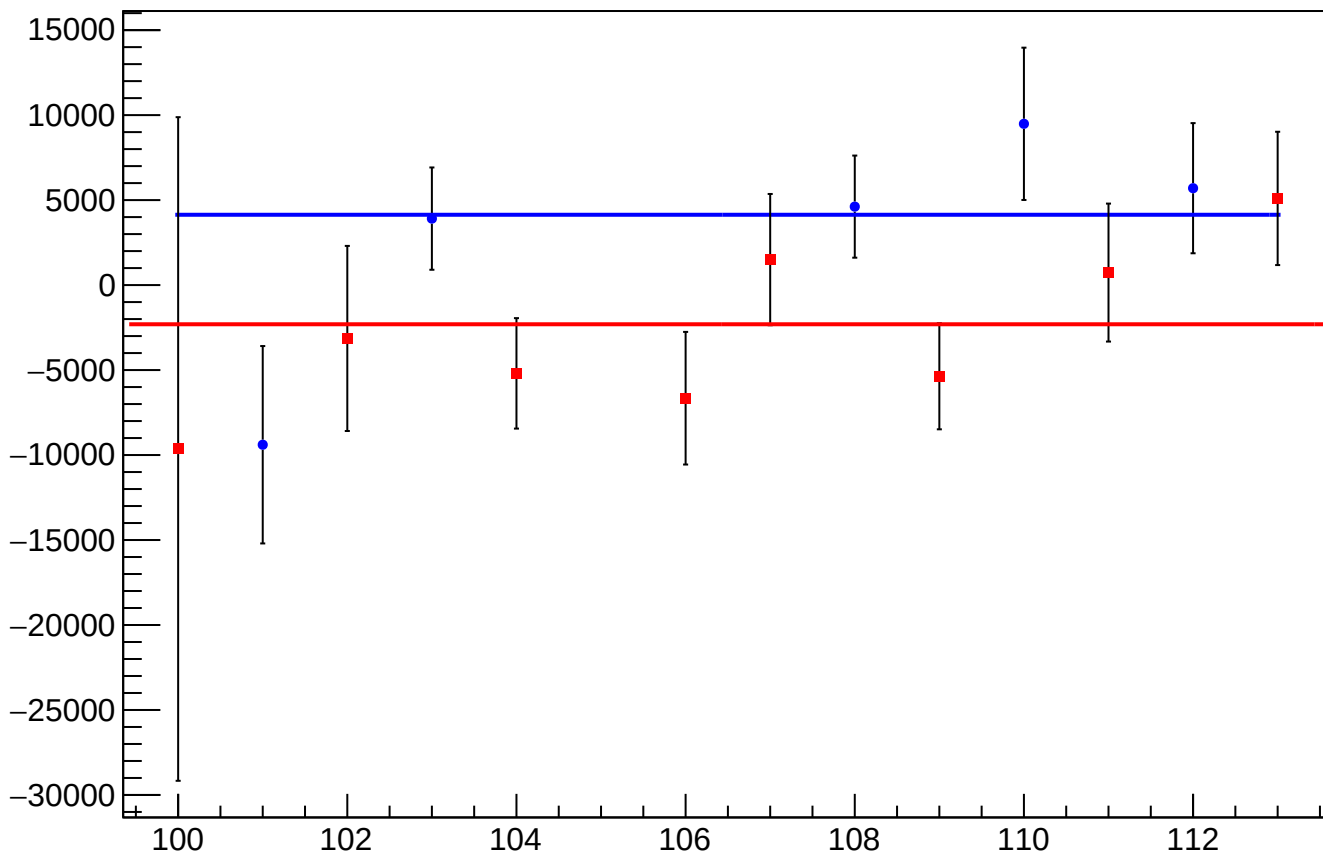
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6953.477+/-2.105  $\chi^2/\text{NDF}$ : 603966.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_atr2\_mean vs Slug



Right In: 4136.778+/-1646.400  $\chi^2/\text{NDF}$ : 7.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2305.710+/-1425.355  $\chi^2/\text{NDF}$ : 8.3/7

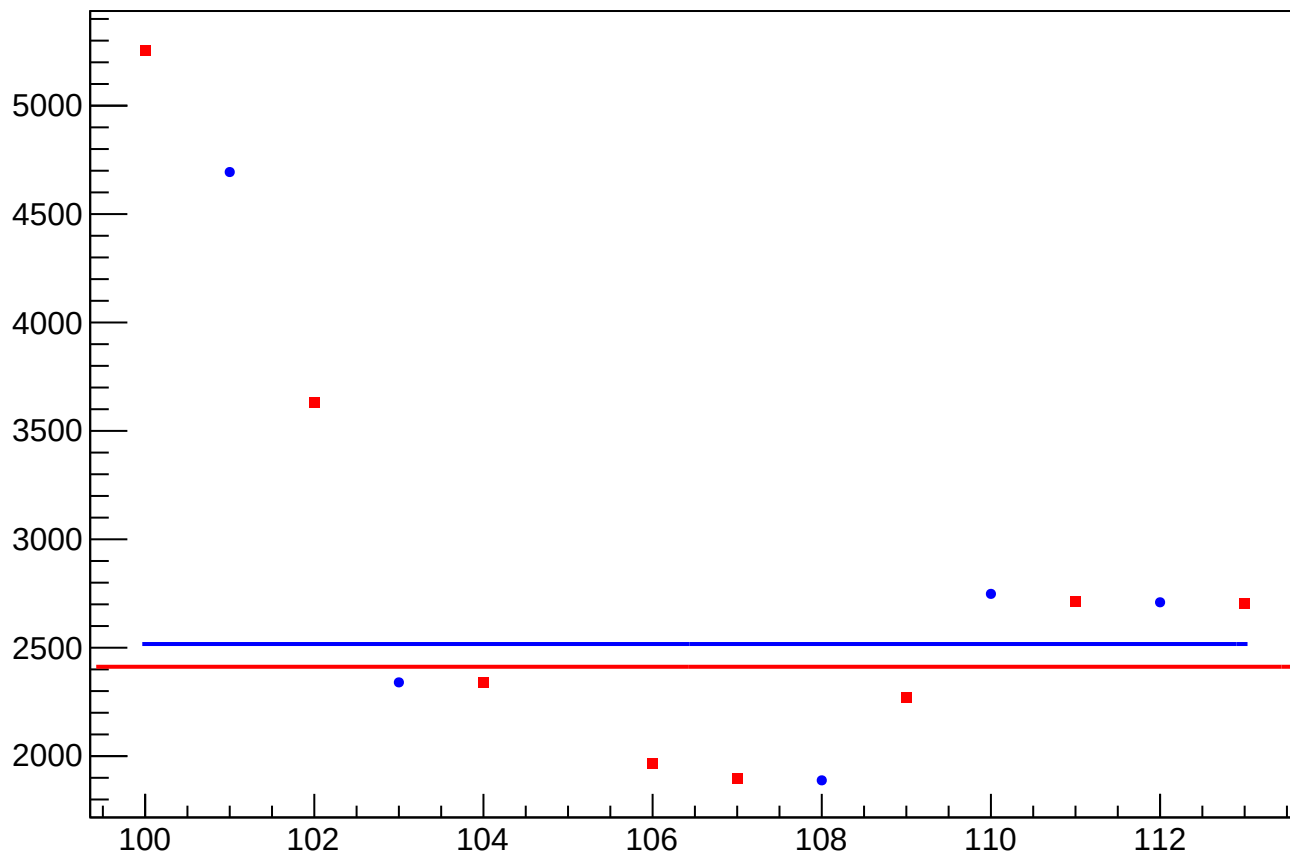
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 454.319+/-1077.619  $\chi^2/\text{NDF}$ : 24.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atr2\_rms vs Slug



Right In: 2517.044+/-1.164  $\chi^2/\text{NDF}$ : 385958.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2412.141+/-1.007  $\chi^2/\text{NDF}$ : 231951.3/7

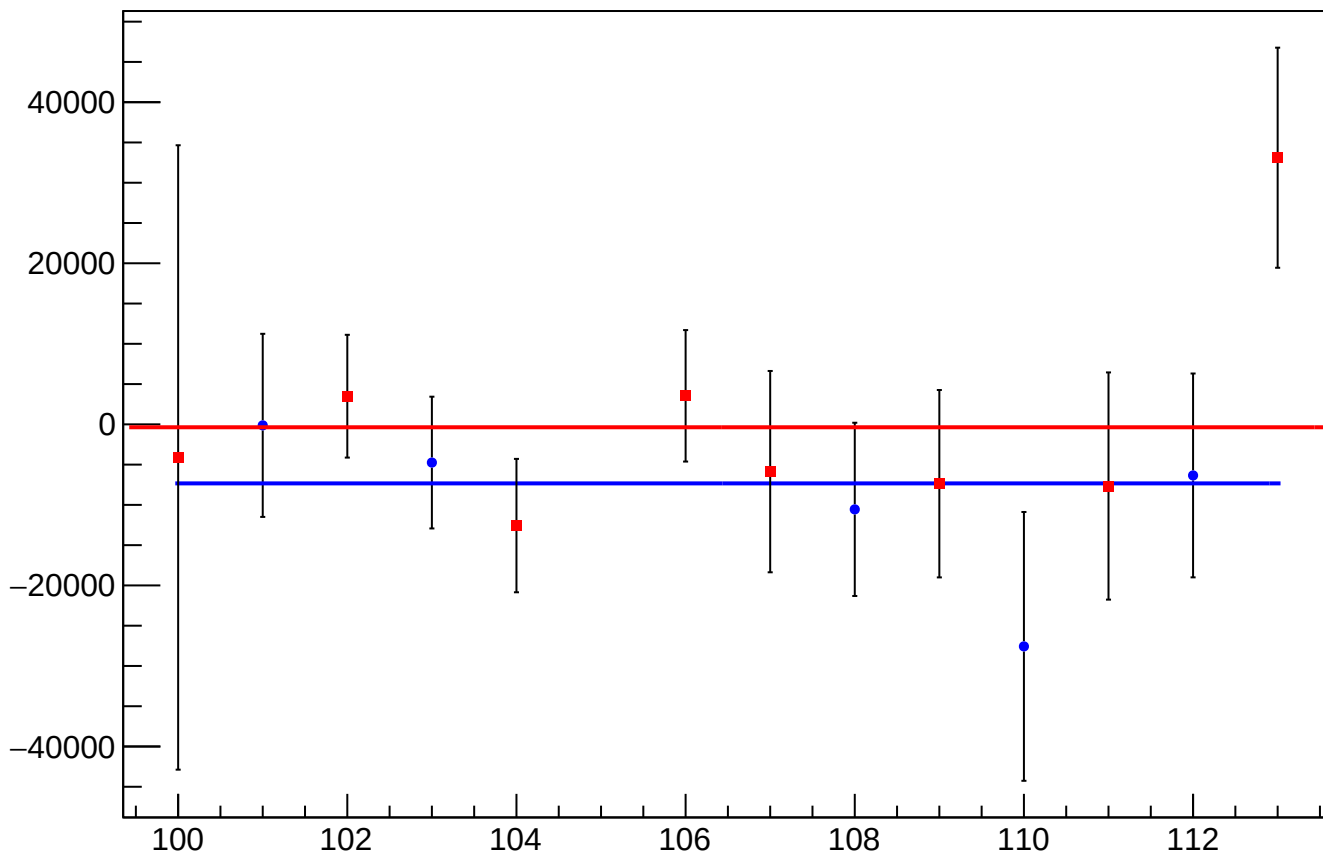
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2457.017+/-0.761  $\chi^2/\text{NDF}$ : 622556.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_dit\_correction\_mean vs Slug



Right In: -7330.842+/-4928.960  $\chi^2/\text{NDF}$ : 2.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -362.258+/-3736.272  $\chi^2/\text{NDF}$ : 9.5/7

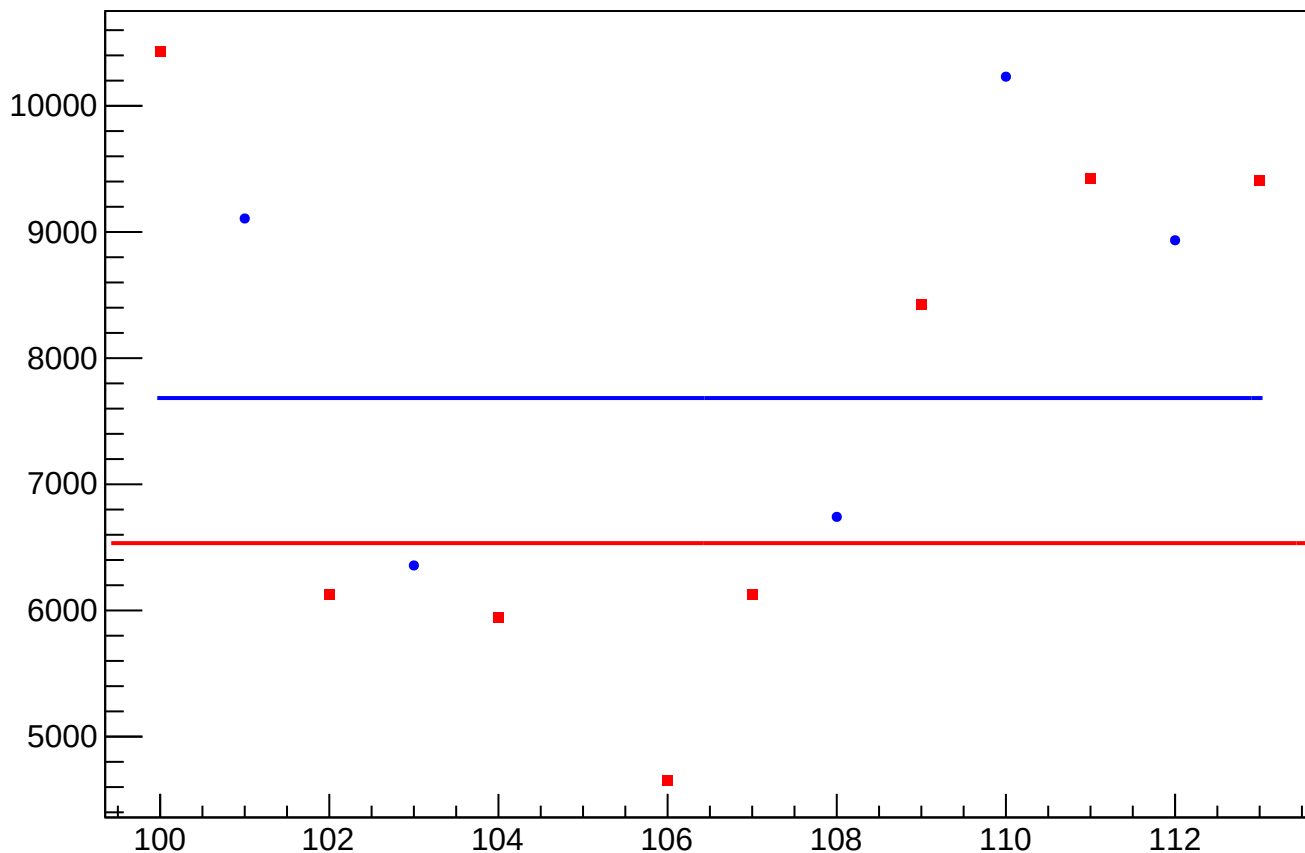
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2905.223+/-2977.510  $\chi^2/\text{NDF}$ : 12.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_dit\_correction\_rms vs Slug



Right In: 7683.810+/-3.485  $\chi^2/\text{NDF}$ : 165456.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6533.816+/-2.642  $\chi^2/\text{NDF}$ : 369367.1/7

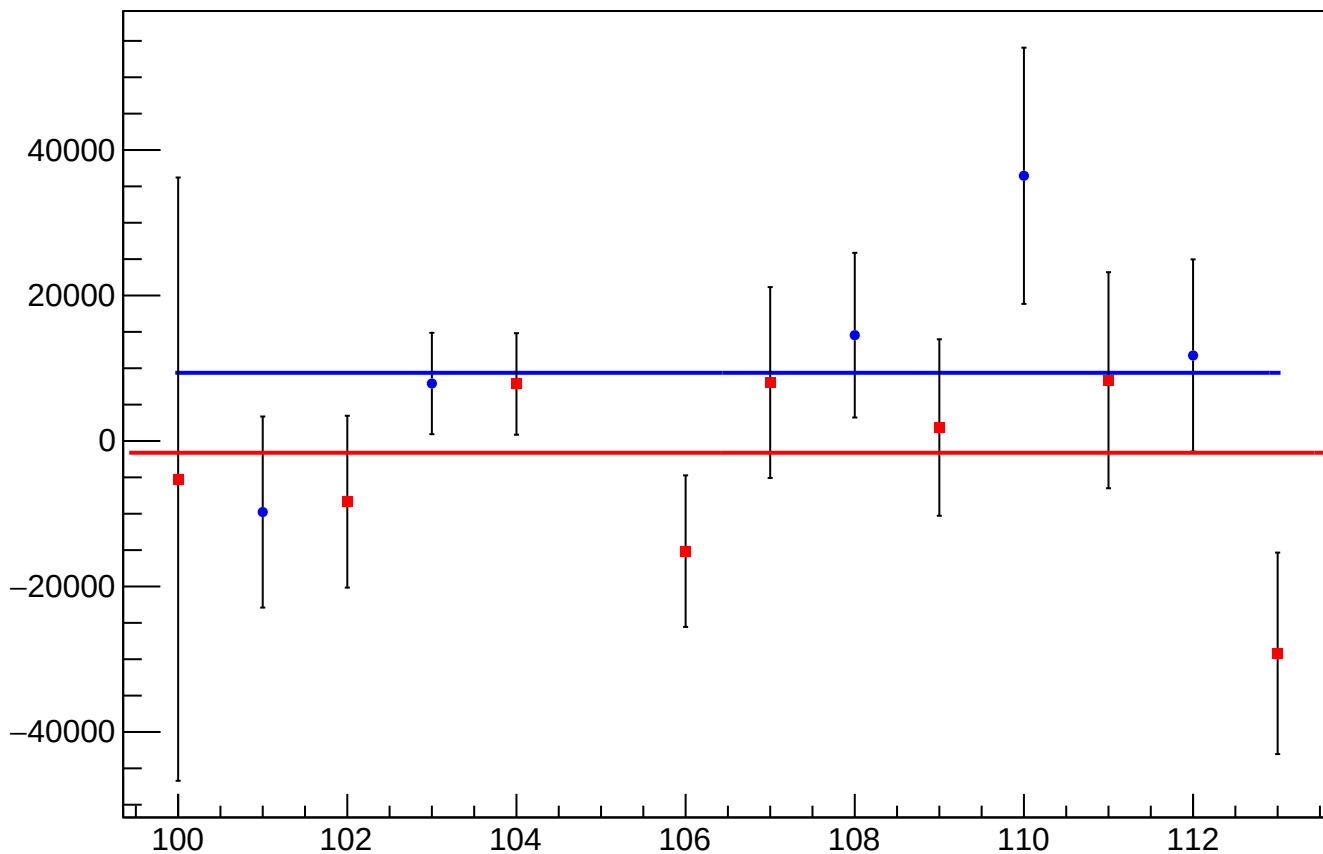
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6953.470+/-2.105  $\chi^2/\text{NDF}$ : 603965.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_mean vs Slug



Right In: 9376.424+/-4814.182  $\chi^2/\text{NDF}$ : 4.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1611.615+/-4087.764  $\chi^2/\text{NDF}$ : 8.9/7

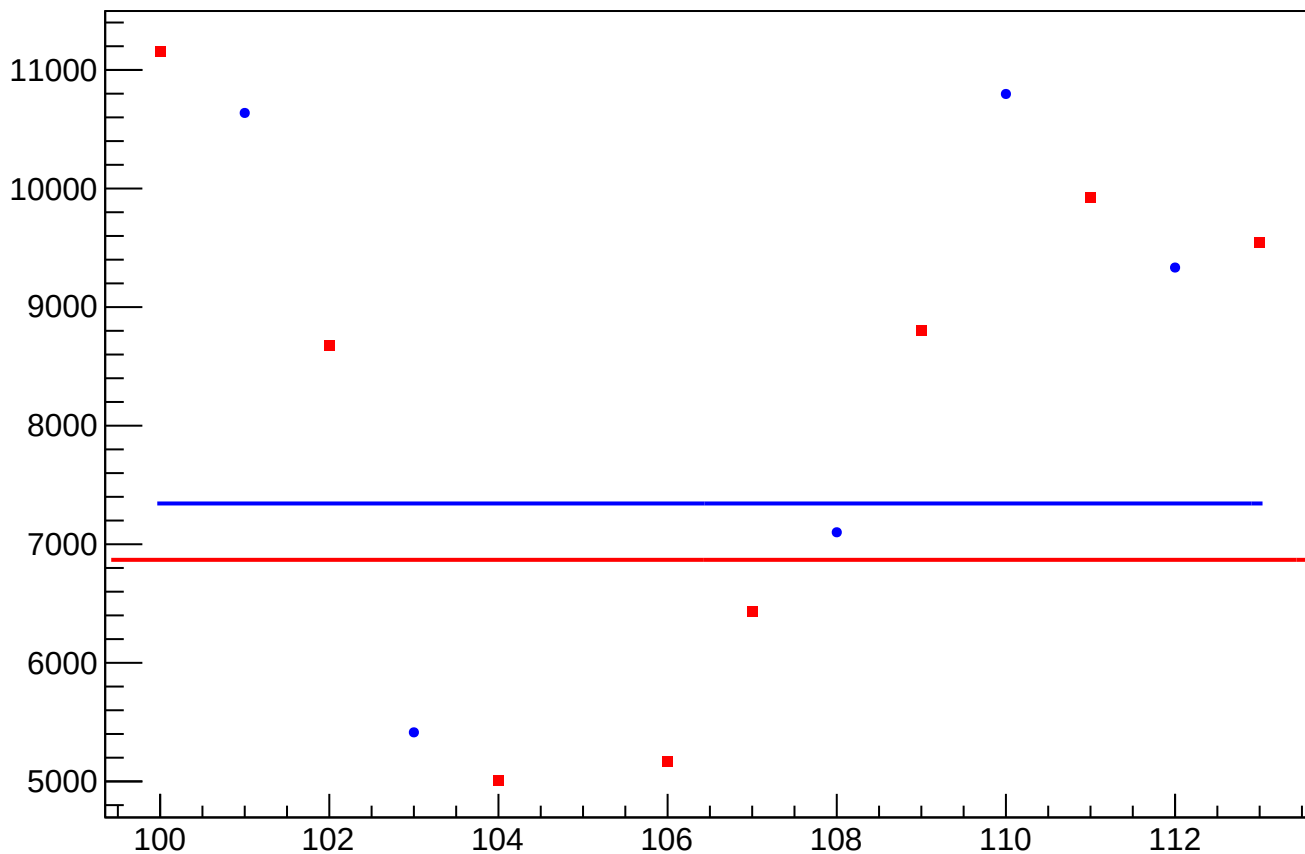
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2991.689+/-3115.998  $\chi^2/\text{NDF}$ : 16.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_rms vs Slug



Right In: 7343.932 $\pm$ 3.404  $\chi^2$ /NDF: 402434.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6868.605 $\pm$ 2.890  $\chi^2$ /NDF: 475394.5/7

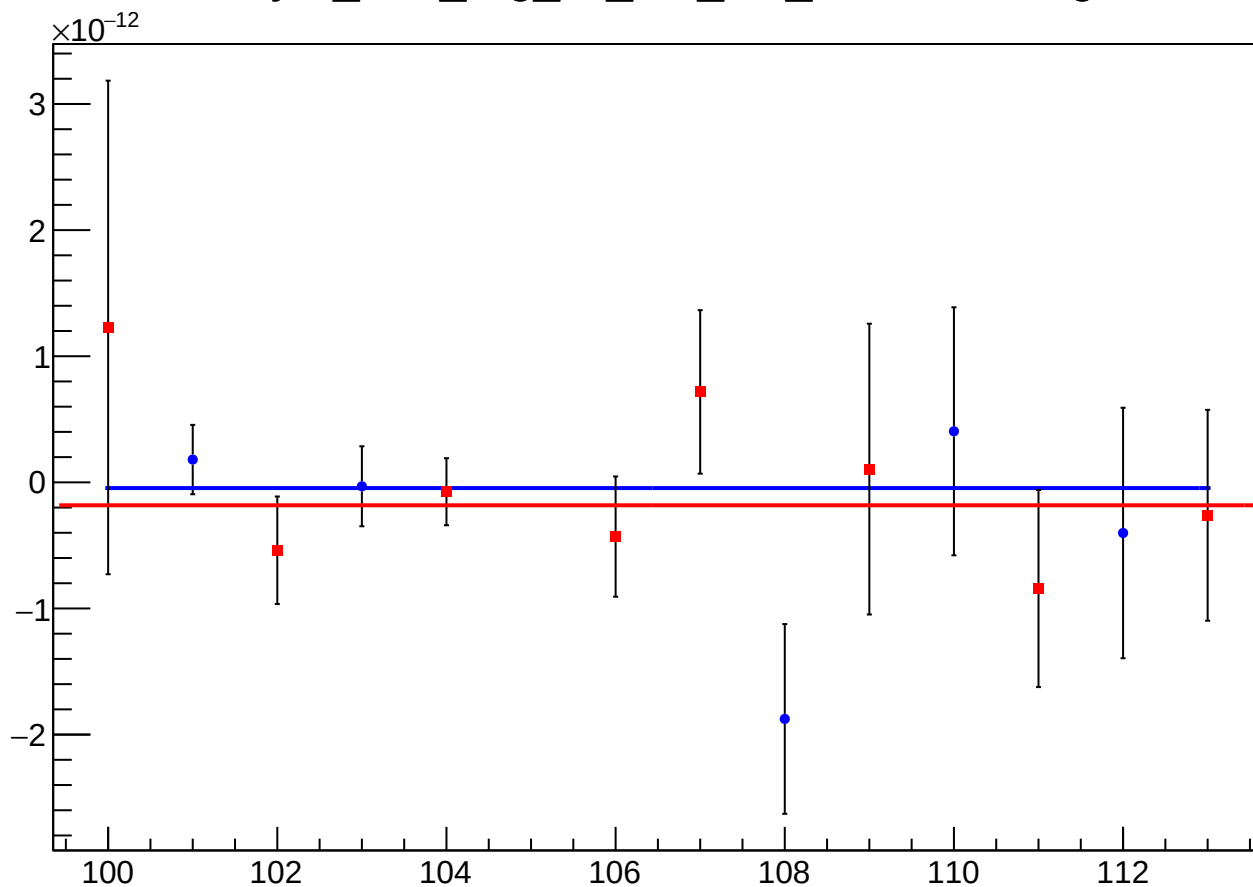
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7067.730 $\pm$ 2.203  $\chi^2$ /NDF: 889158.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.4/7

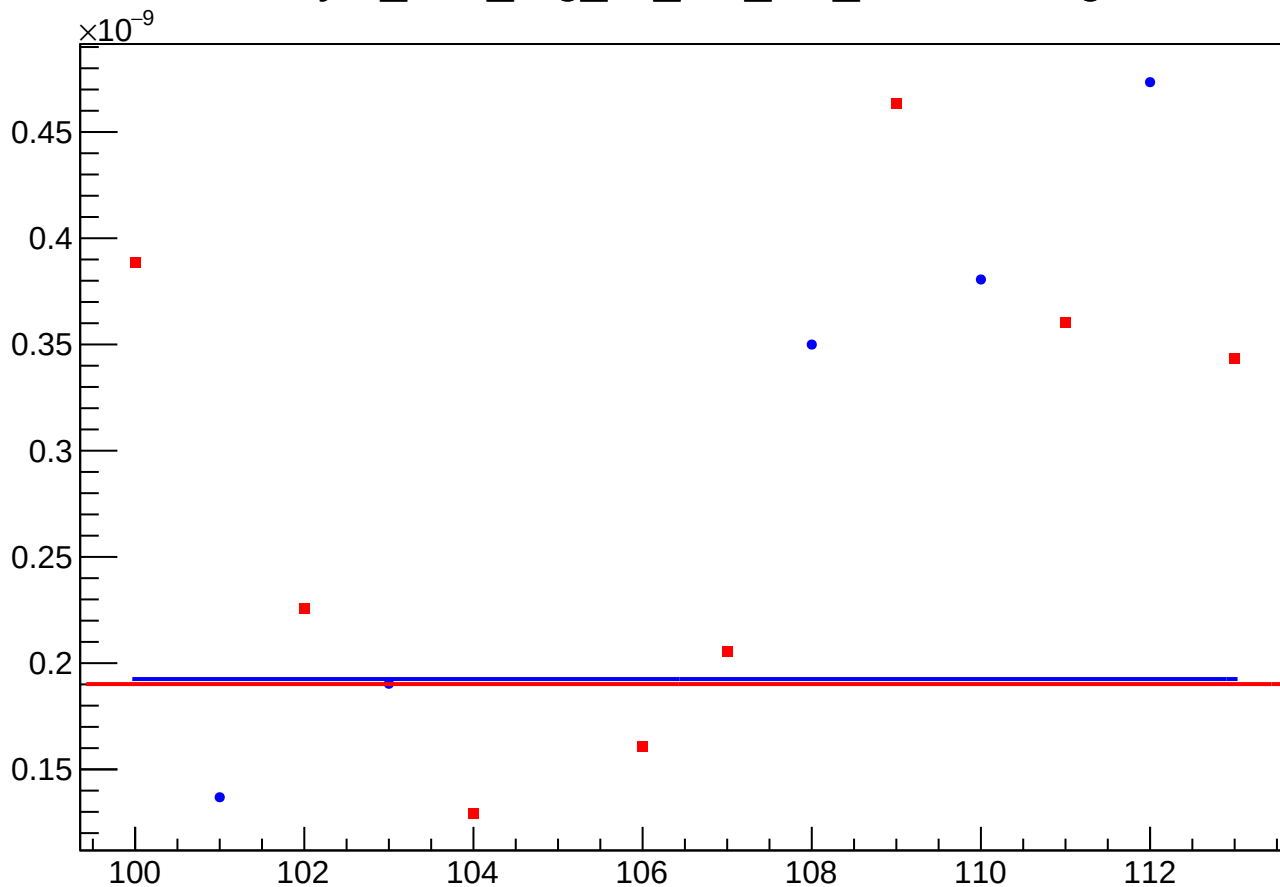
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 402835.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 422767.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

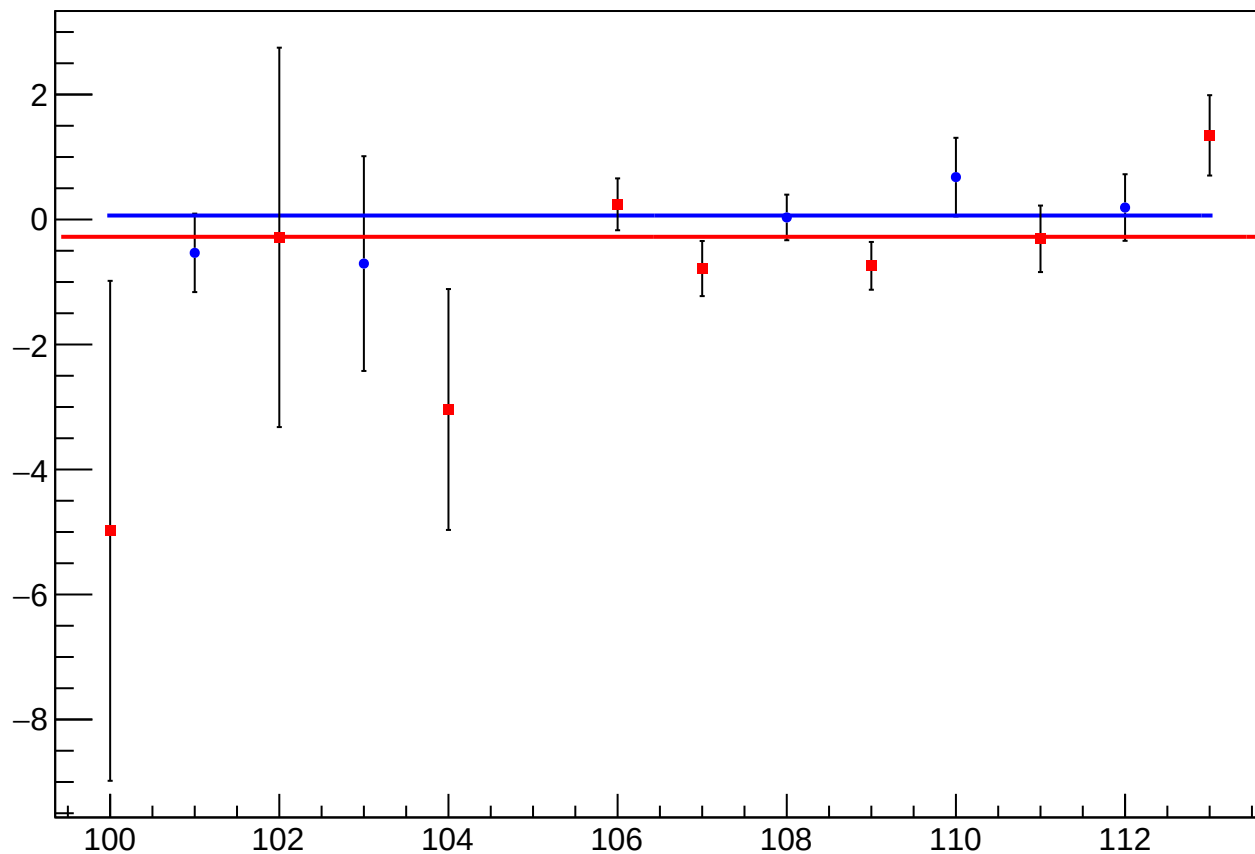
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 825764.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atr2\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.064 $\pm$ 0.247  $\chi^2$ /NDF: 2.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.277 $\pm$ 0.203  $\chi^2$ /NDF: 14.2/7

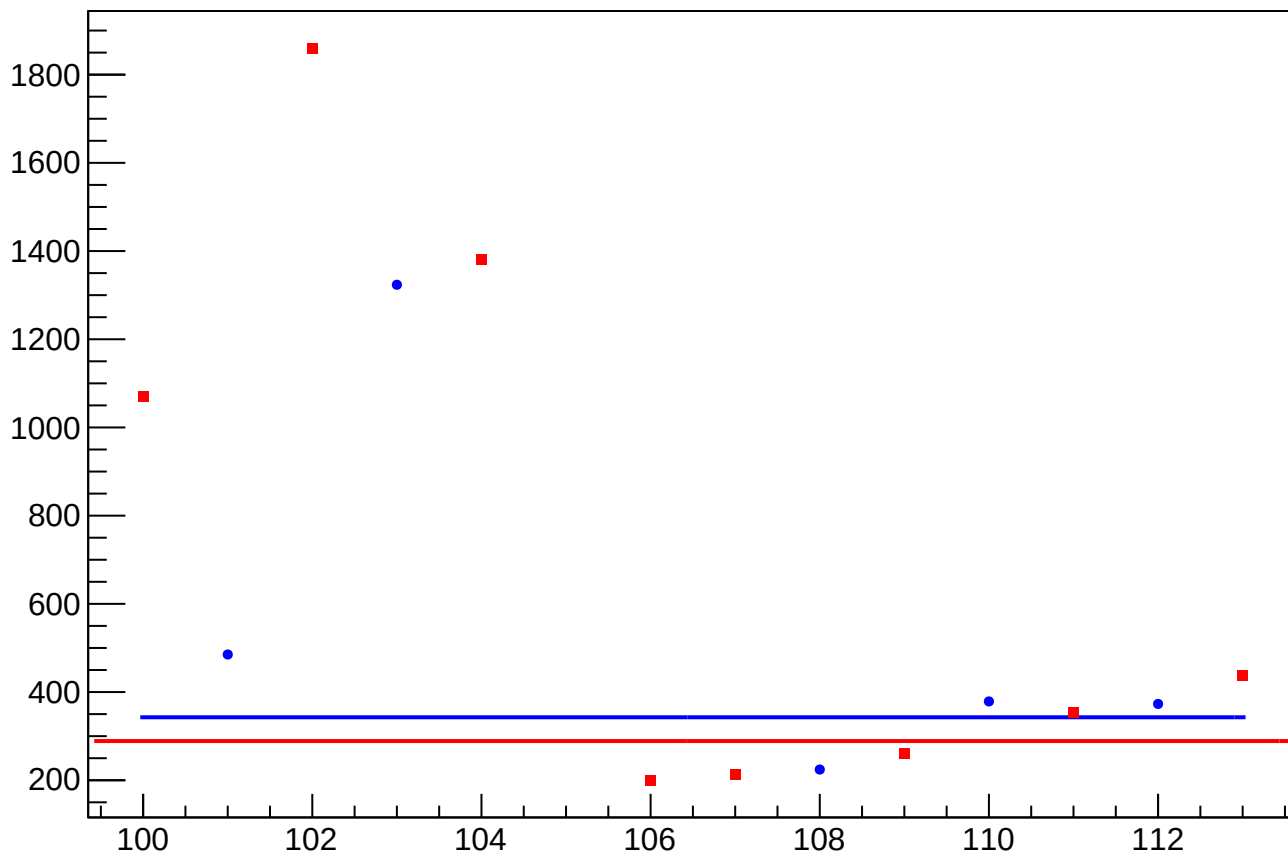
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.139 $\pm$ 0.157  $\chi^2$ /NDF: 17.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 342.824+/-0.174  $\chi^2/\text{NDF}$ : 978638.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 288.939+/-0.144  $\chi^2/\text{NDF}$ : 1553153.3/7

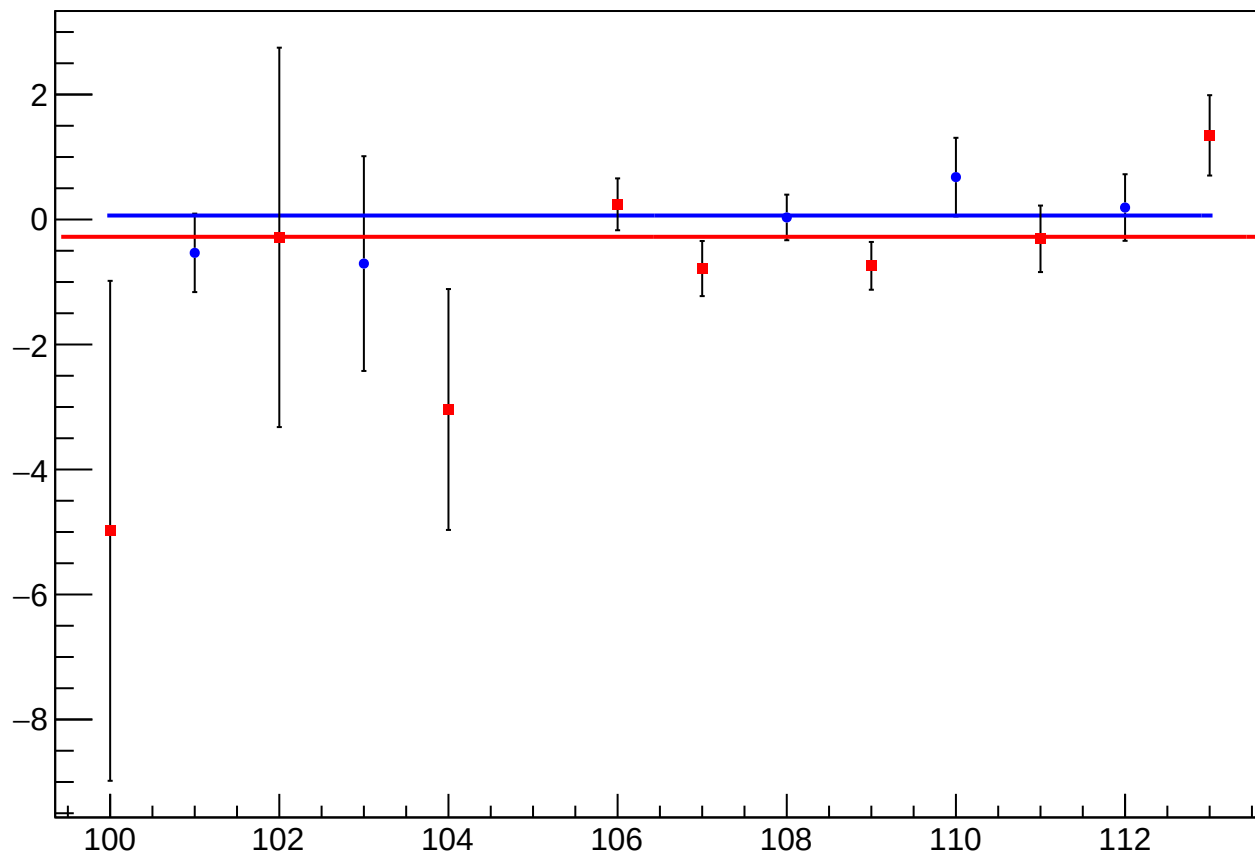
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 310.752+/-0.111  $\chi^2/\text{NDF}$ : 2588646.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.064 $\pm$ 0.247  $\chi^2$ /NDF: 2.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.277 $\pm$ 0.203  $\chi^2$ /NDF: 14.2/7

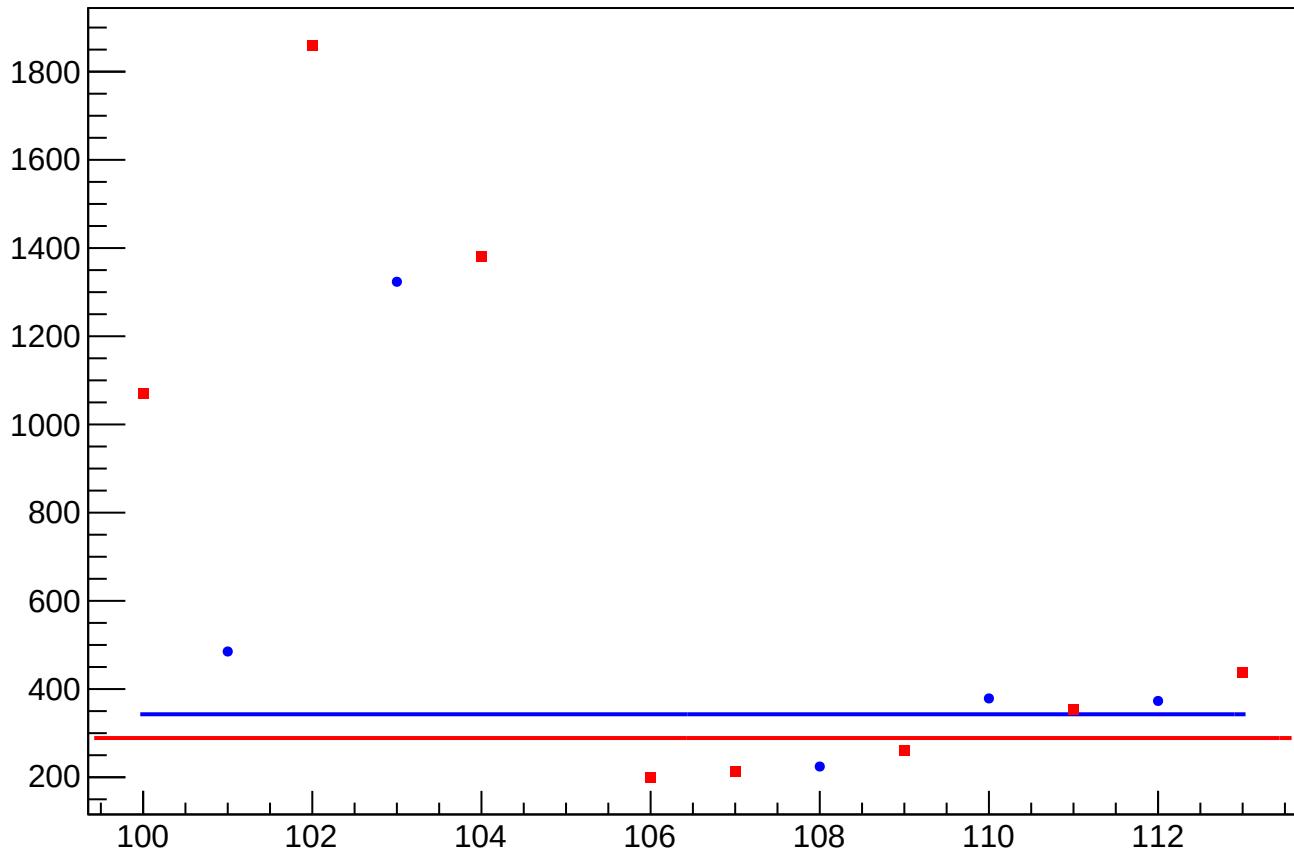
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.139 $\pm$ 0.157  $\chi^2$ /NDF: 17.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 342.824 $\pm$ 0.174  $\chi^2$ /NDF: 978638.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 288.939 $\pm$ 0.144  $\chi^2$ /NDF: 1553153.3/7

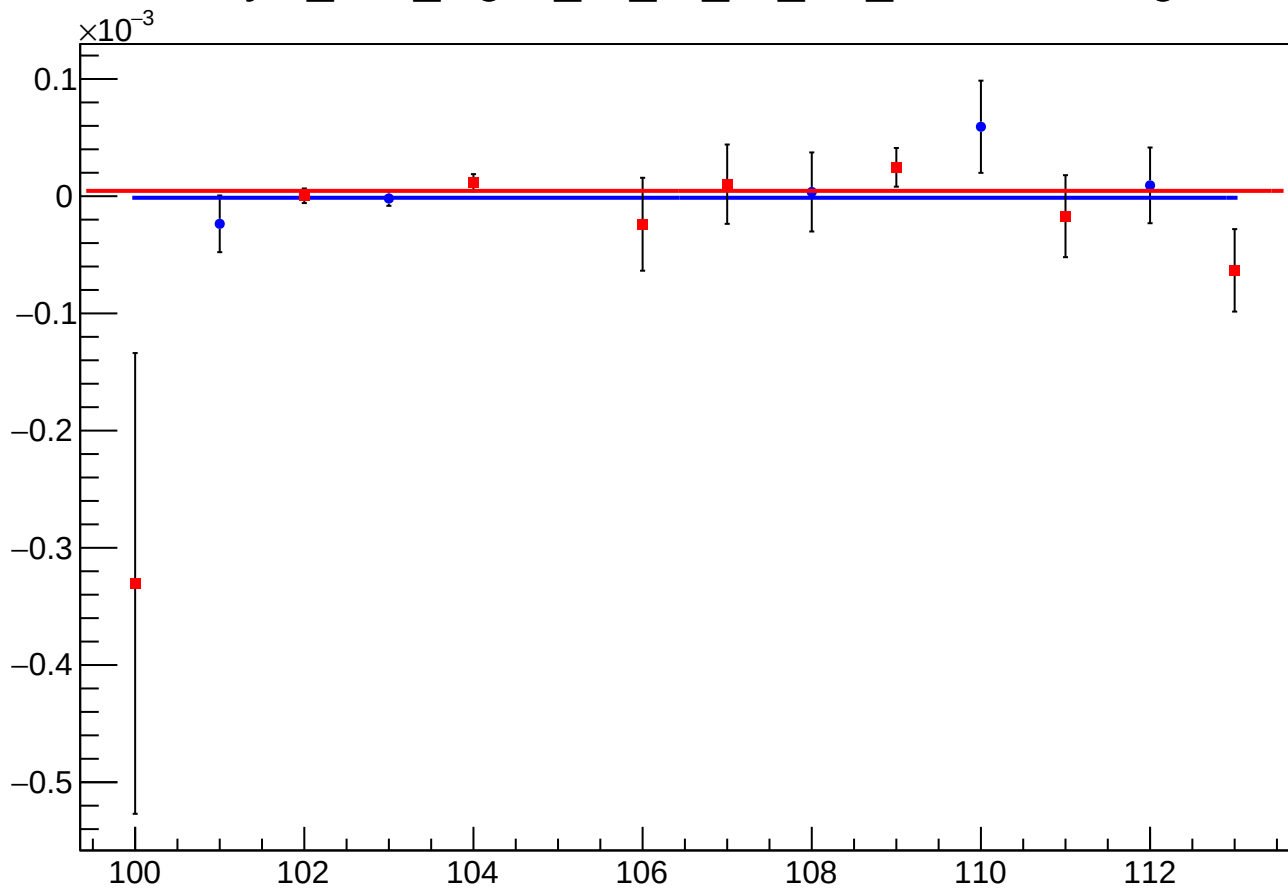
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 310.752 $\pm$ 0.111  $\chi^2$ /NDF: 2588646.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 3.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 10.4/7

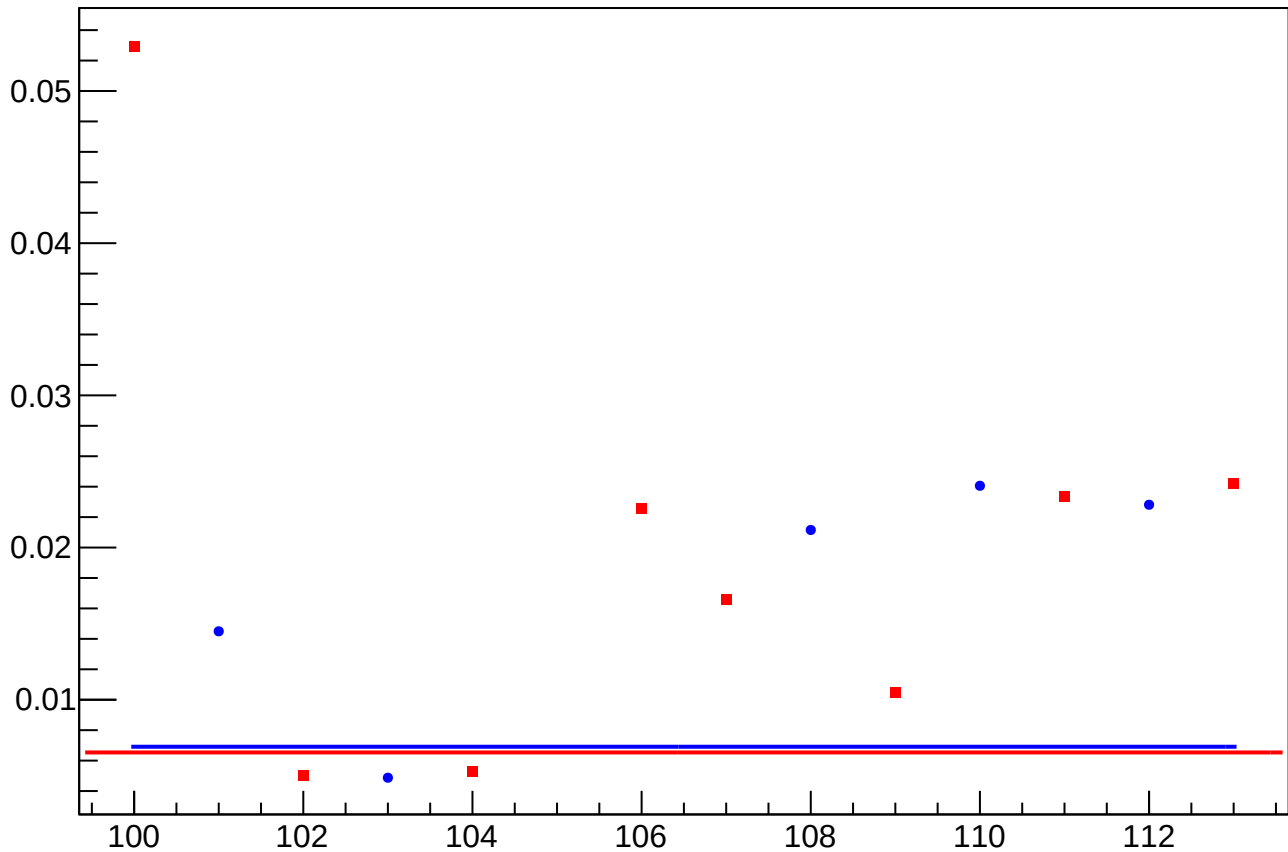
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 14.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 1629898.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 1877197.1/7

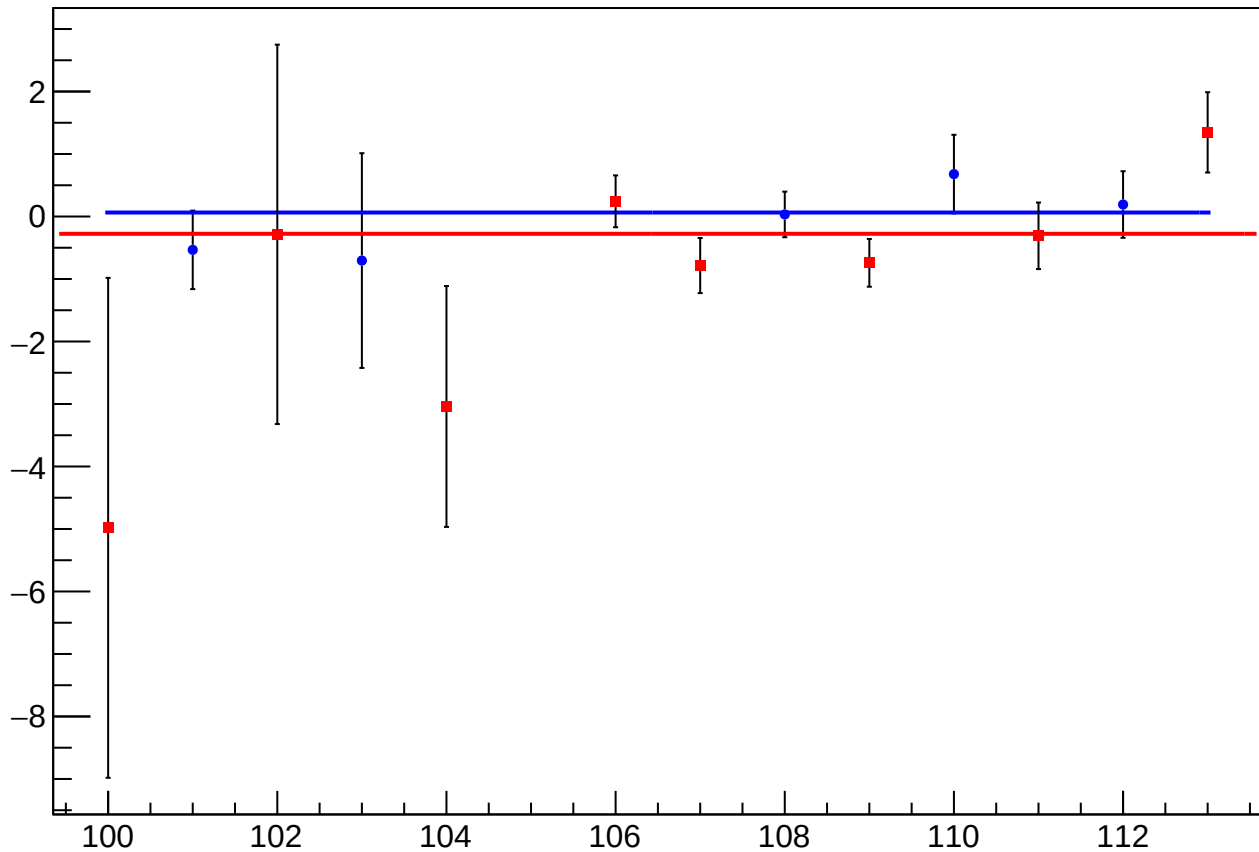
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 3512374.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.064 $\pm$ 0.247  $\chi^2$ /NDF: 2.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.277 $\pm$ 0.203  $\chi^2$ /NDF: 14.2/7

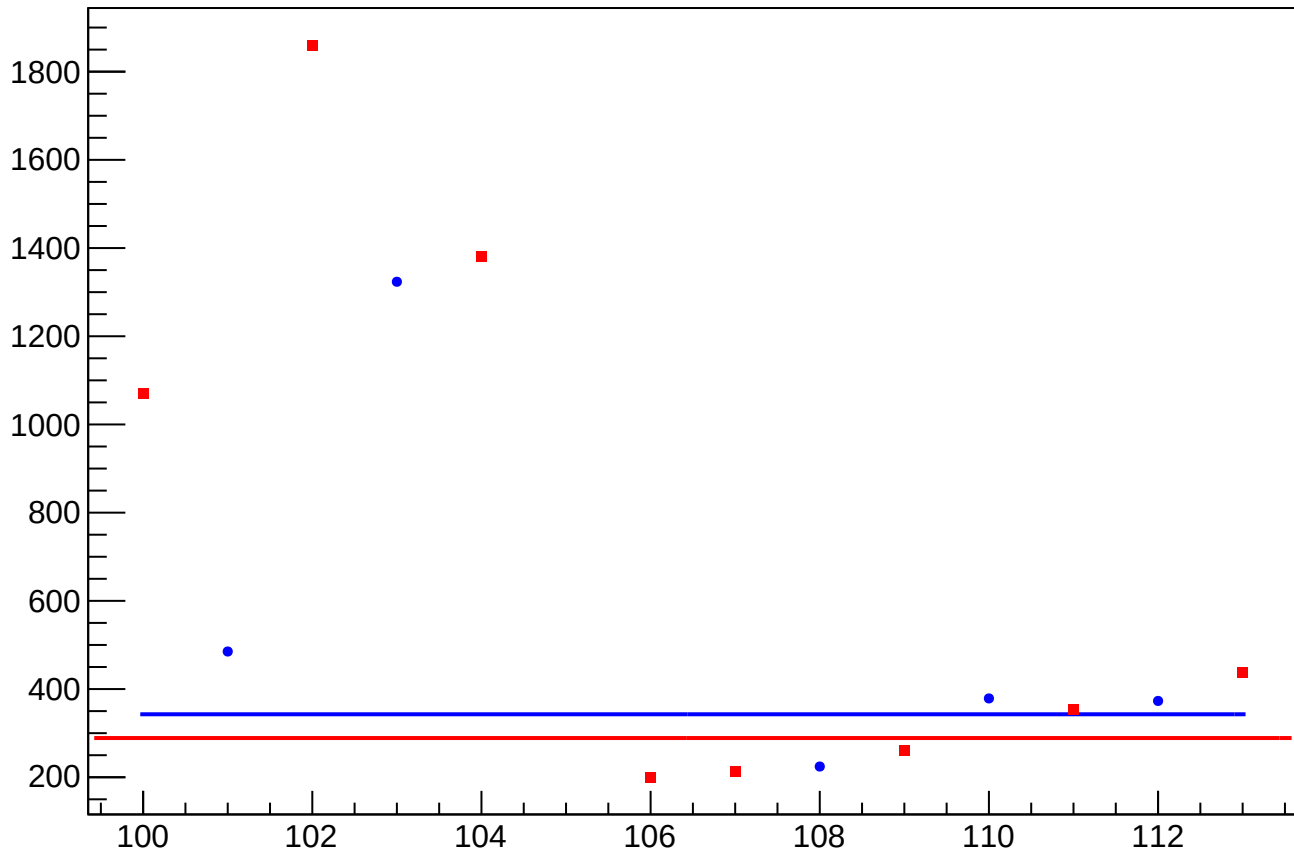
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.139 $\pm$ 0.157  $\chi^2$ /NDF: 17.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 342.821 $\pm$ 0.174  $\chi^2$ /NDF: 978668.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 288.940 $\pm$ 0.144  $\chi^2$ /NDF: 1553154.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

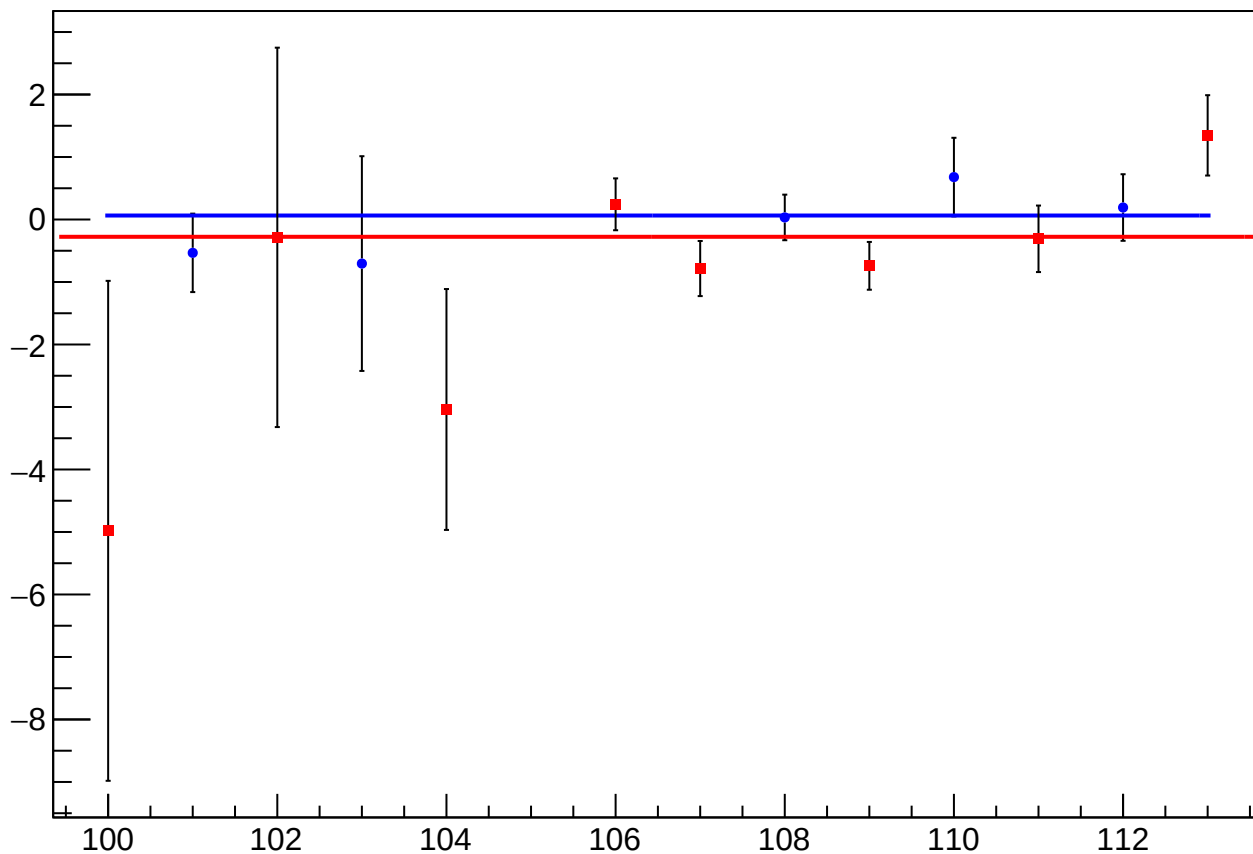
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 310.751 $\pm$ 0.111  $\chi^2$ /NDF: 2588670.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_atr2\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.064+/-0.247  $\chi^2/\text{NDF}$ : 2.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.277+/-0.203  $\chi^2/\text{NDF}$ : 14.2/7

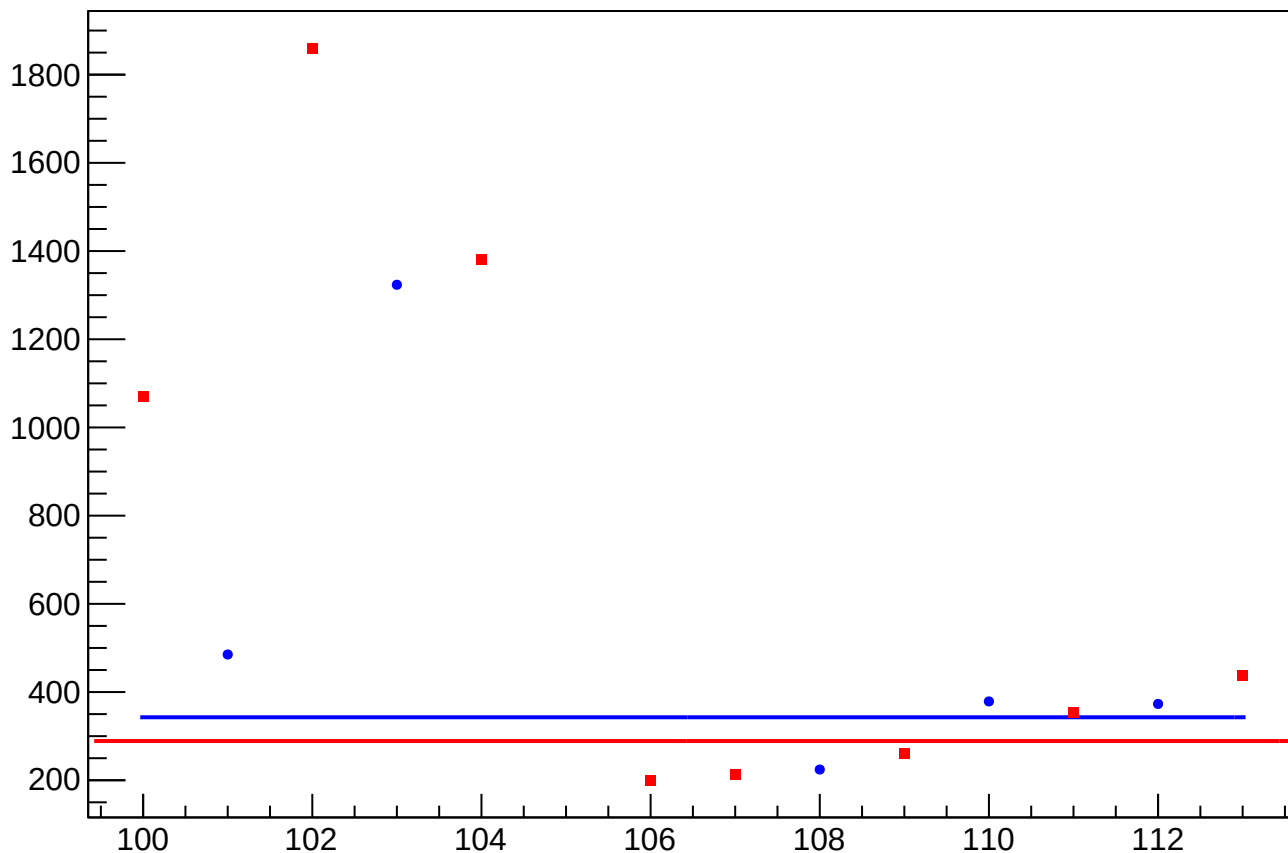
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.139+/-0.157  $\chi^2/\text{NDF}$ : 17.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr2\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 342.821+/-0.174  $\chi^2/\text{NDF}$ : 978668.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 288.940+/-0.144  $\chi^2/\text{NDF}$ : 1553154.1/7

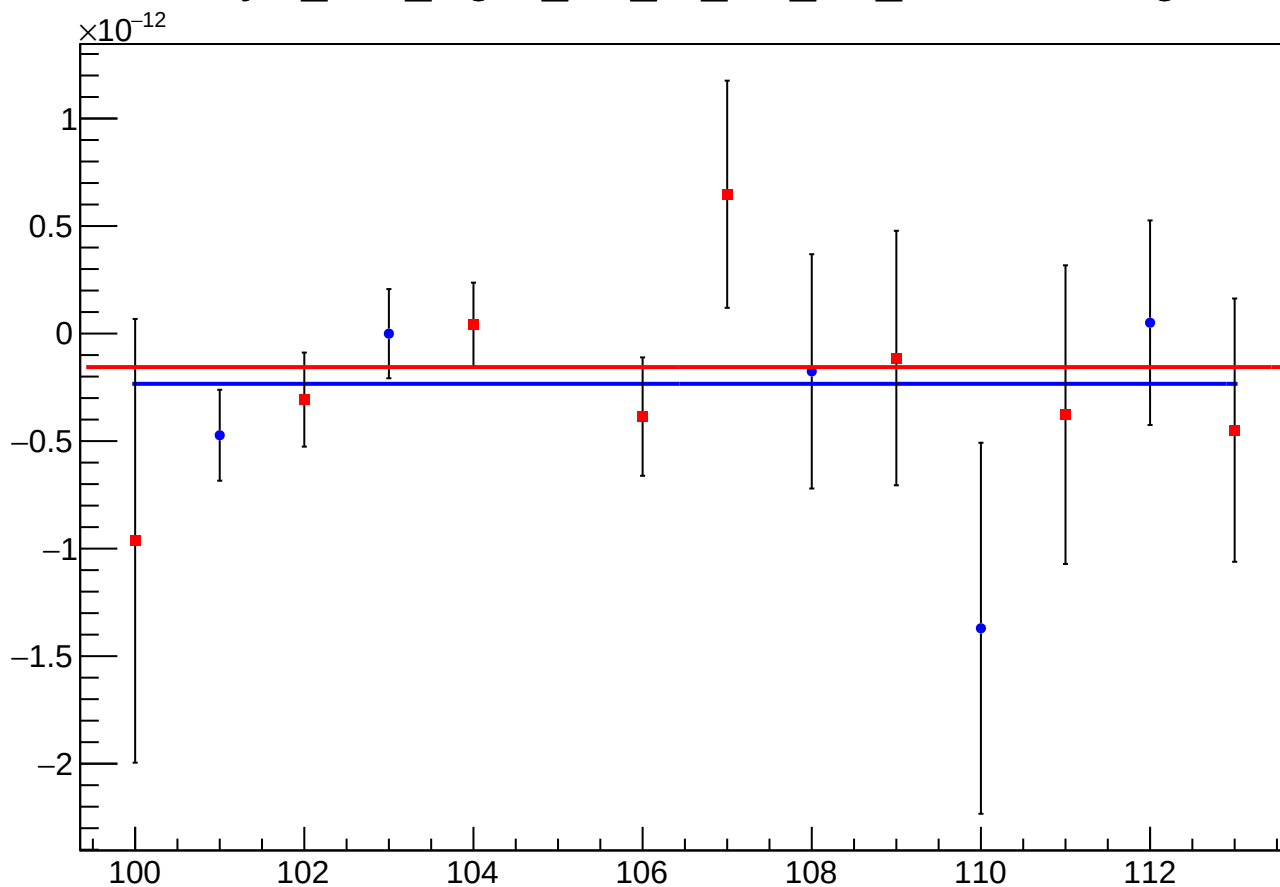
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 310.751+/-0.111  $\chi^2/\text{NDF}$ : 2588670.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr2\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.5/7

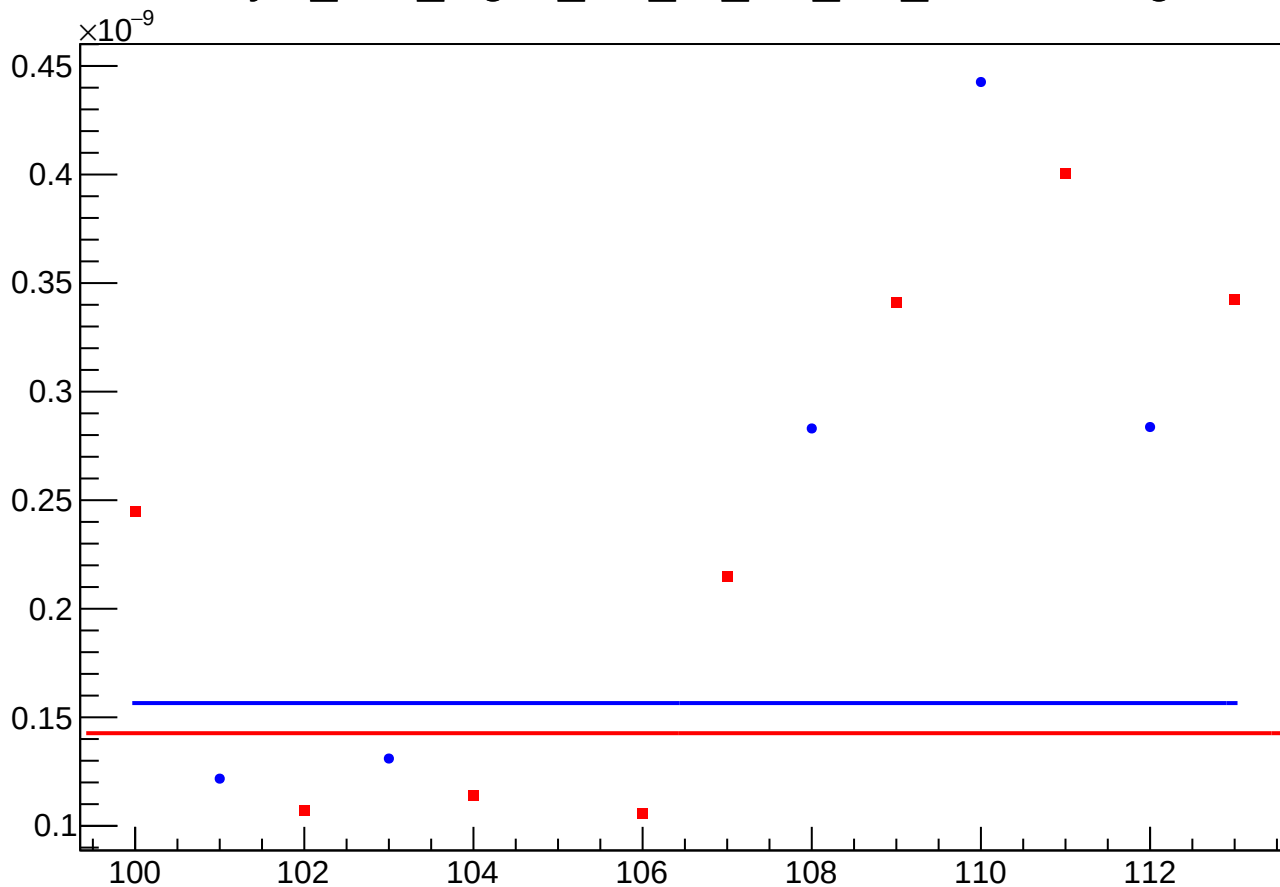
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 555199.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 903092.0/7

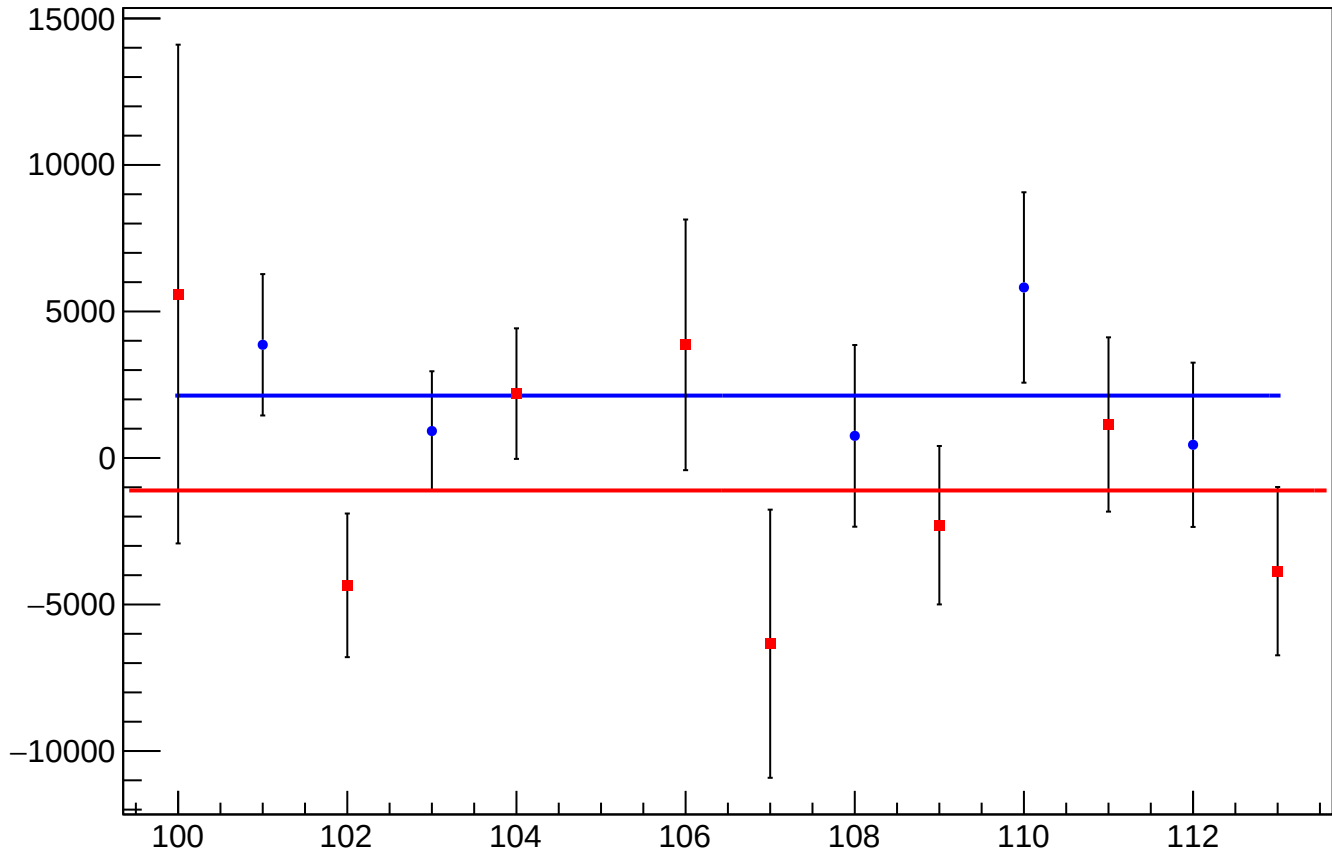
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1470296.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_mean vs Slug



Right In: 2129.331+/-1163.829  $\chi^2/\text{NDF}$ : 2.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1108.631+/-1081.243  $\chi^2/\text{NDF}$ : 8.9/7

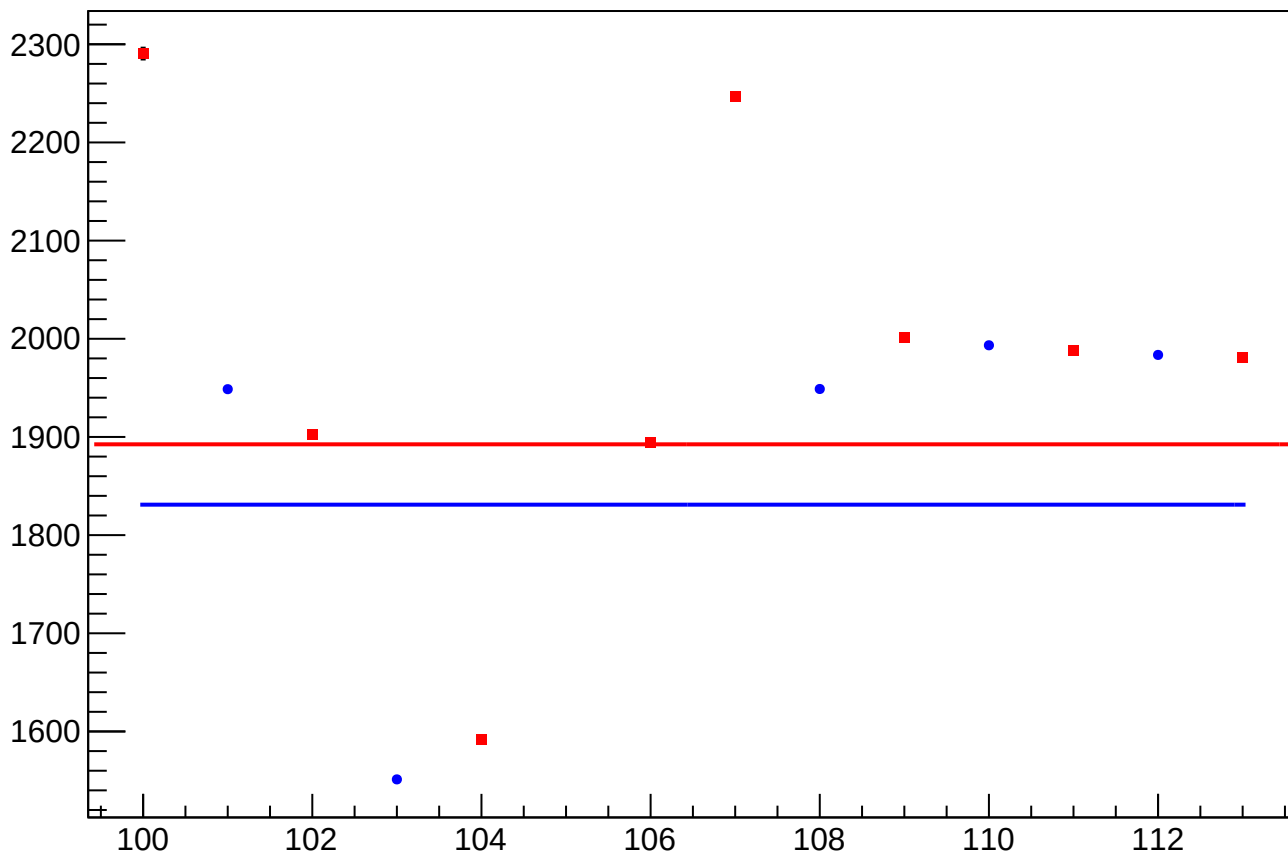
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 391.401+/-792.143  $\chi^2/\text{NDF}$ : 15.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_rms vs Slug



Right In: 1831.019+/-0.823  $\chi^2/\text{NDF}$ : 56215.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1892.494+/-0.754  $\chi^2/\text{NDF}$ : 60099.5/7

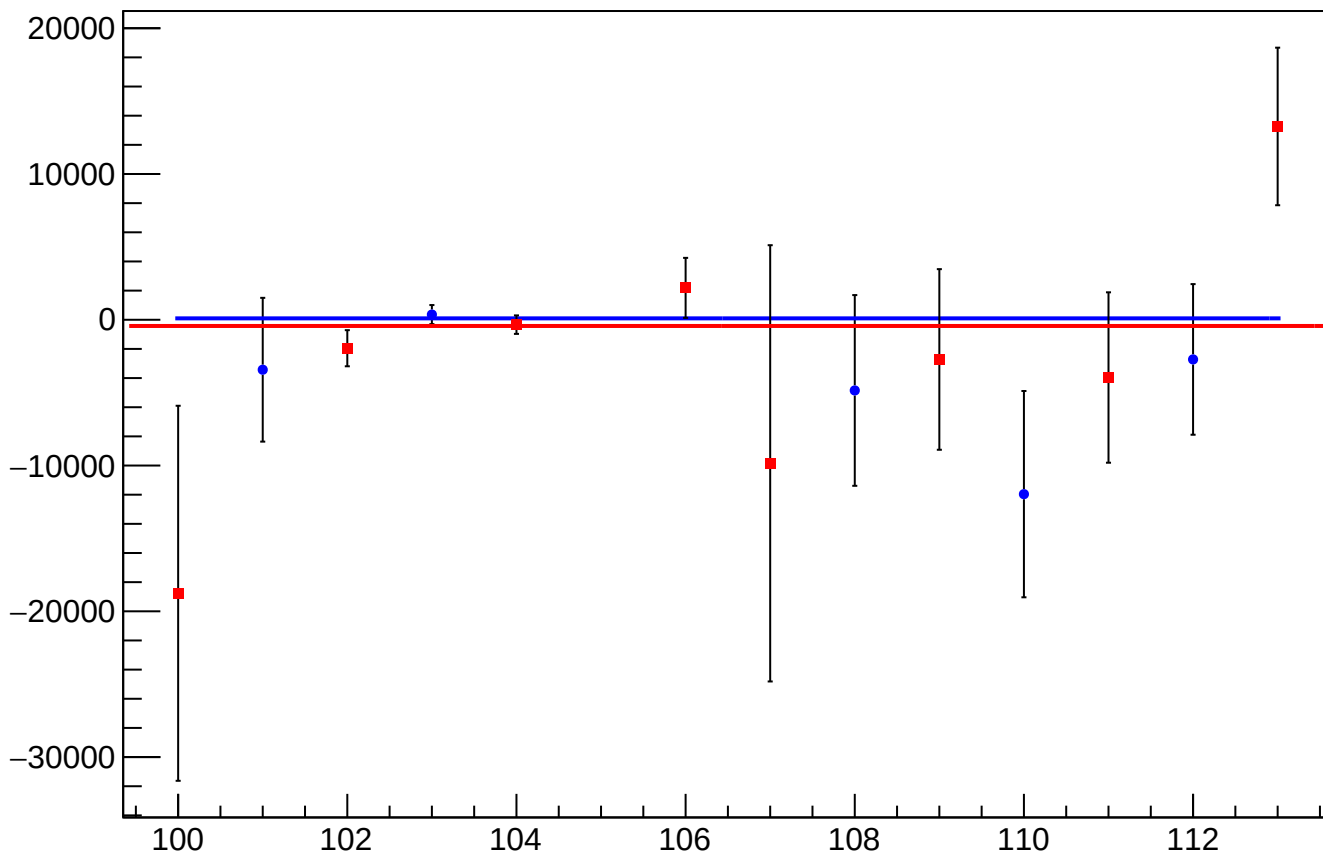
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1864.421+/-0.556  $\chi^2/\text{NDF}$ : 119346.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_reg\_correction\_mean vs Slug



Right In: 96.485+/-637.576  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -425.541+/-536.478  $\chi^2/\text{NDF}$ : 12.5/7

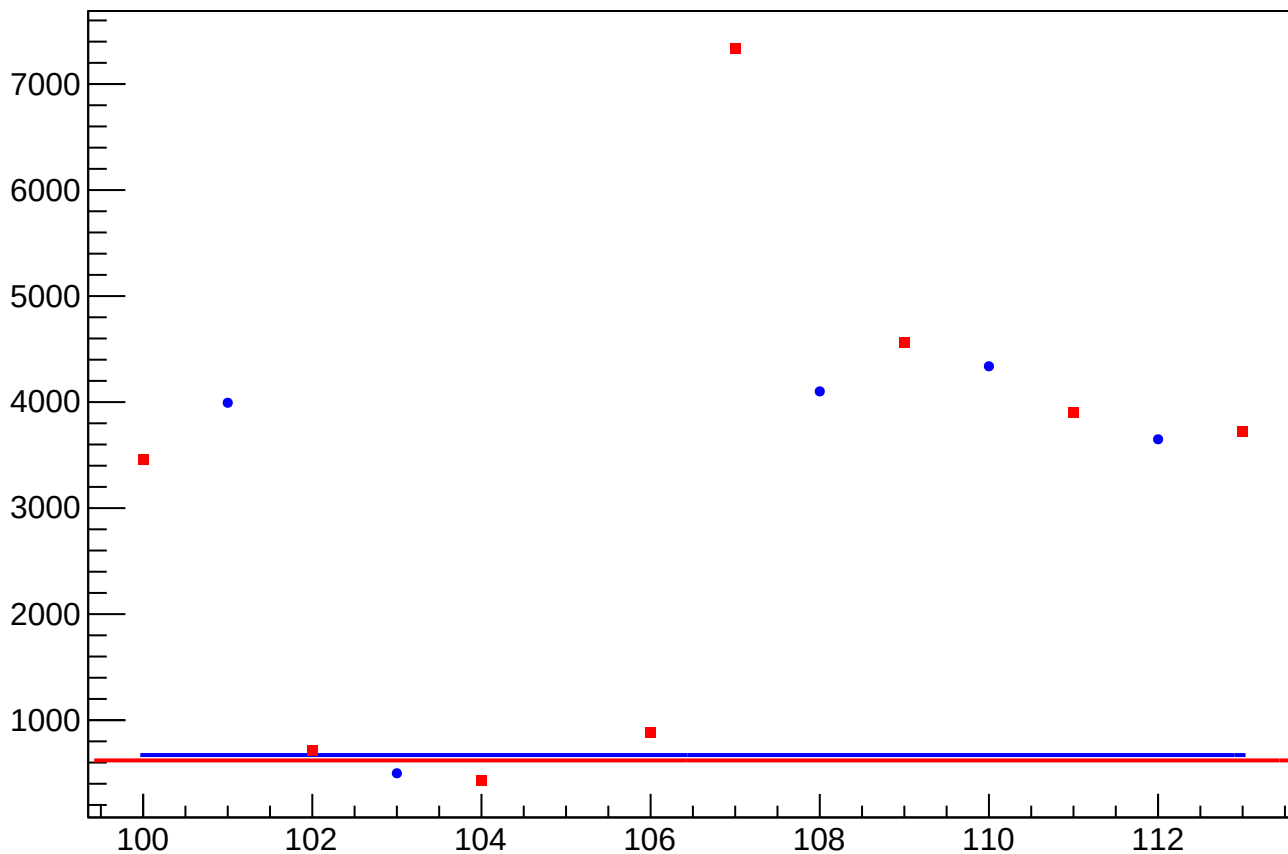
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -209.148+/-410.494  $\chi^2/\text{NDF}$ : 17.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_reg\_correction\_rms vs Slug



Right In: 670.681+/-0.451  $\chi^2/\text{NDF}$ : 2797704.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 620.126+/-0.379  $\chi^2/\text{NDF}$ : 2829883.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

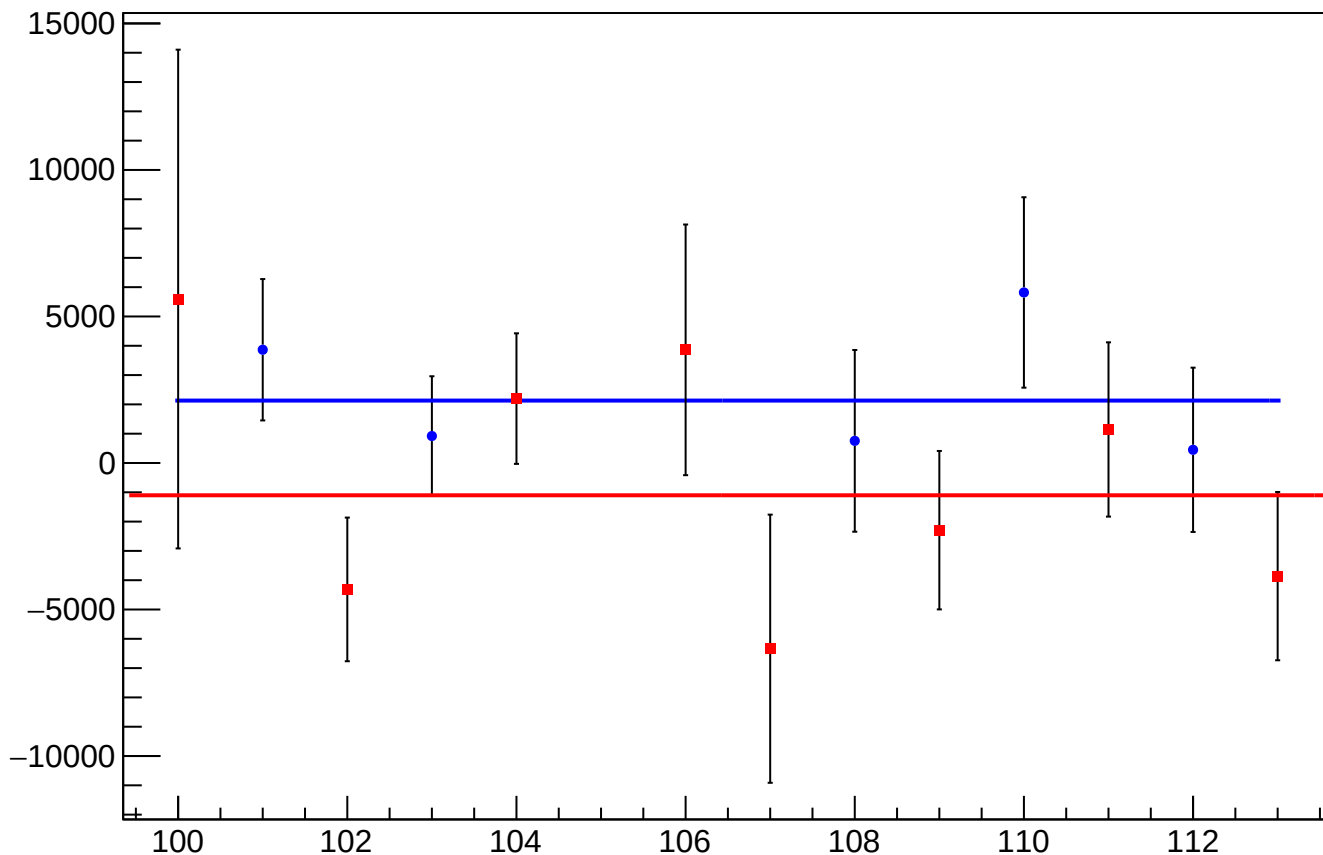
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 641.082+/-0.290  $\chi^2/\text{NDF}$ : 5634949.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atl\_avg\_mean vs Slug



Right In: 2129.786 $\pm$ 1163.829  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1101.847 $\pm$ 1081.268  $\chi^2$ /NDF: 8.9/7

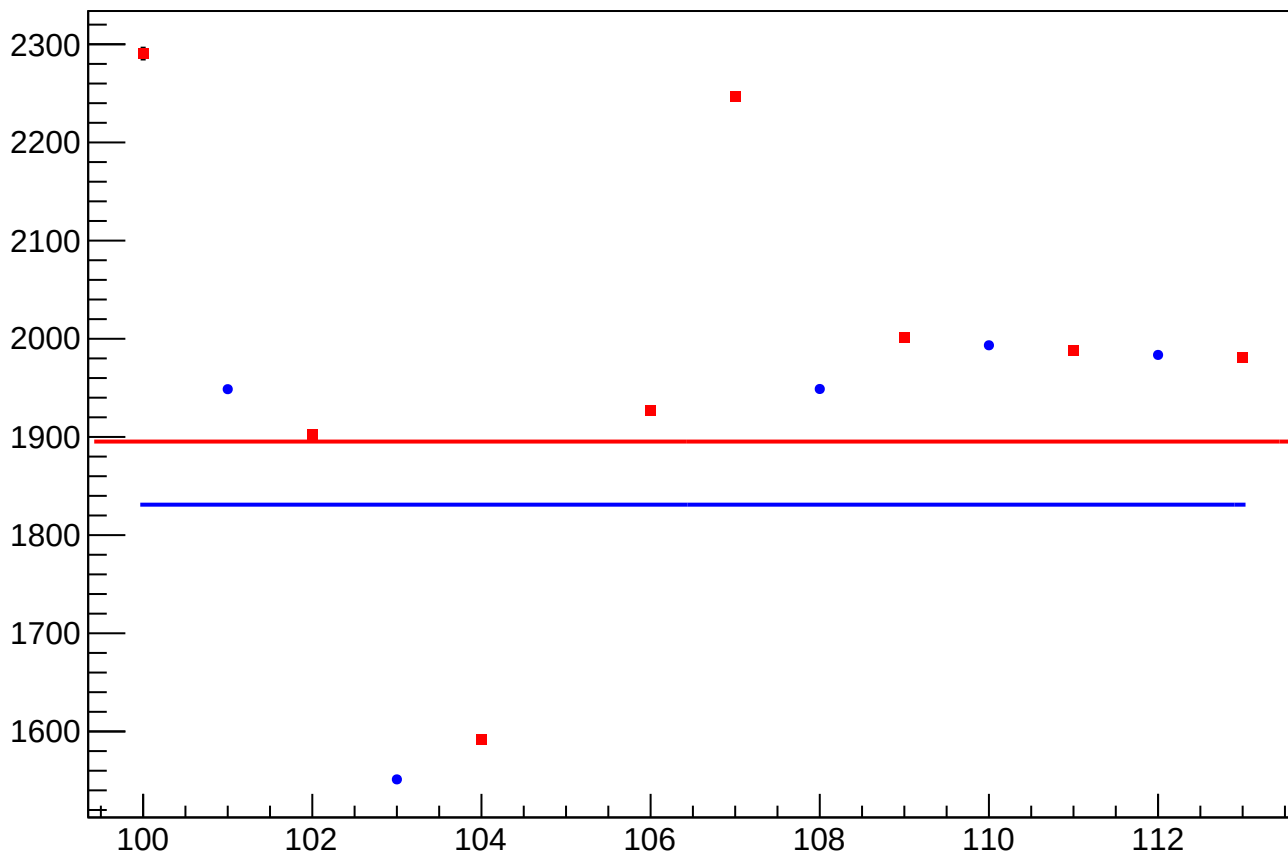
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 395.289 $\pm$ 792.153  $\chi^2$ /NDF: 15.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atl\_avg\_rms vs Slug



Right In: 1831.018 $\pm$ 0.823  $\chi^2$ /NDF: 56215.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1895.302 $\pm$ 0.755  $\chi^2$ /NDF: 60264.3/7

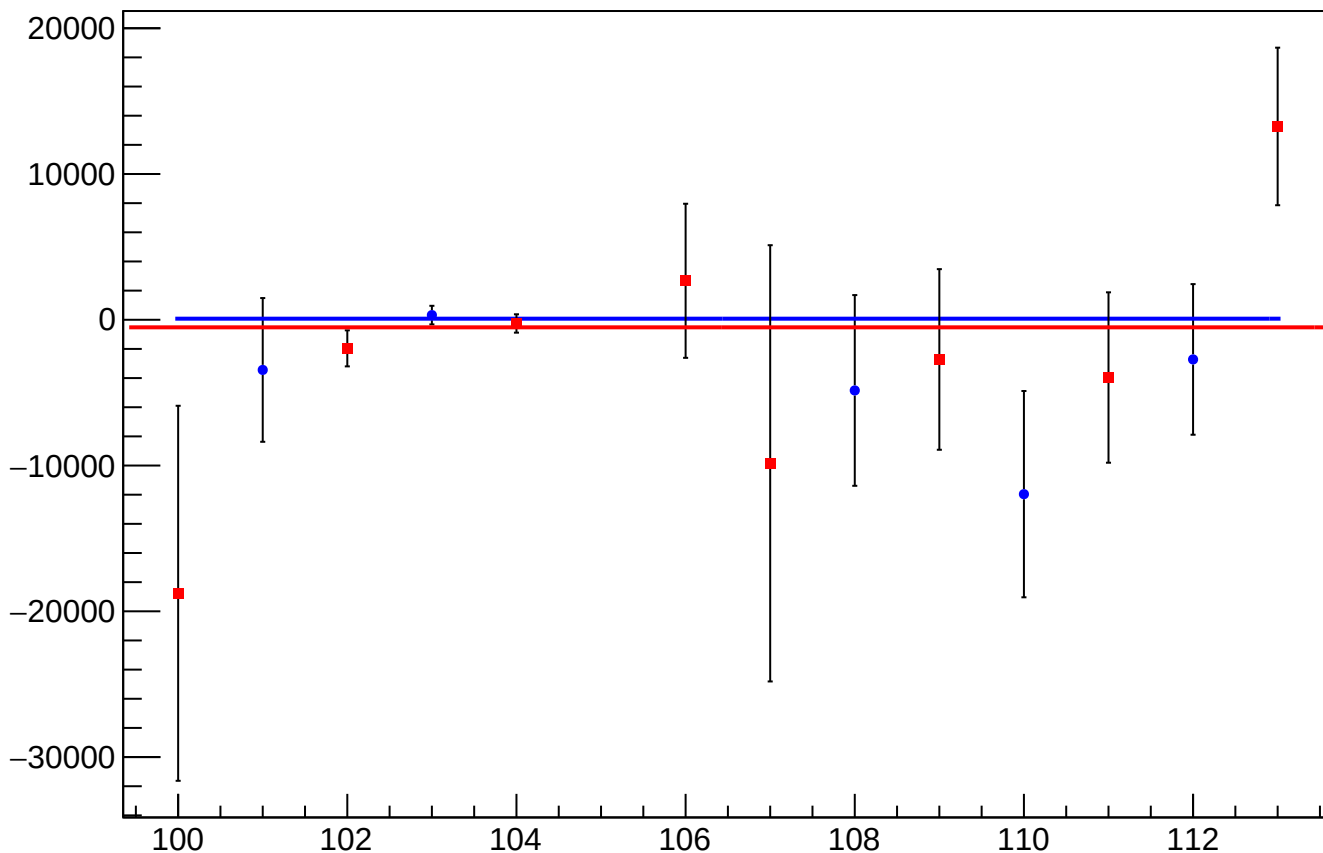
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1865.903 $\pm$ 0.557  $\chi^2$ /NDF: 119790.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_cor\_correction\_mean vs Slug



Right In: 74.781+/-622.318  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -518.722+/-549.682  $\chi^2/\text{NDF}$ : 11.3/7

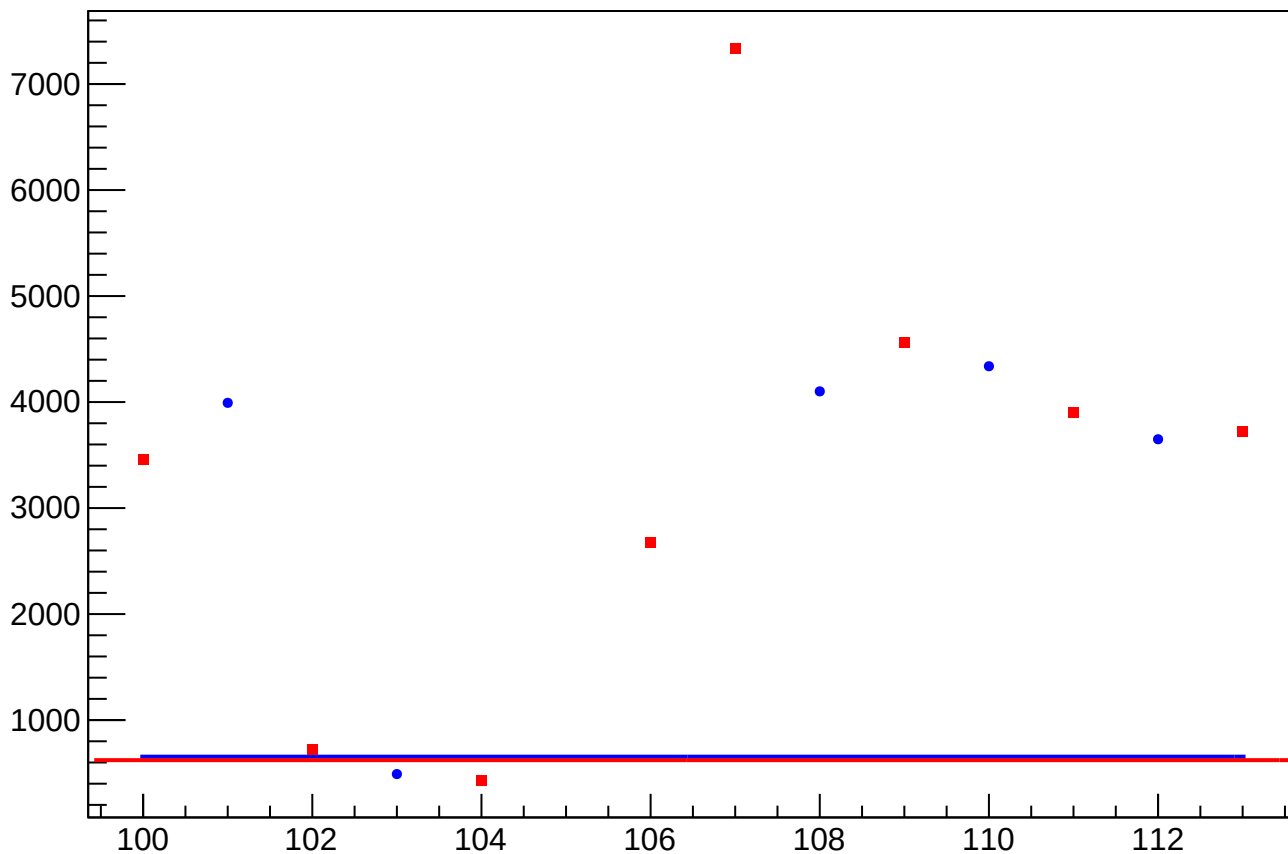
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -258.613+/-411.983  $\chi^2/\text{NDF}$ : 16.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_cor\_correction\_rms vs Slug



Right In: 654.807+/-0.440  $\chi^2/\text{NDF}$ : 2817603.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 622.045+/-0.389  $\chi^2/\text{NDF}$ : 3103872.2/7

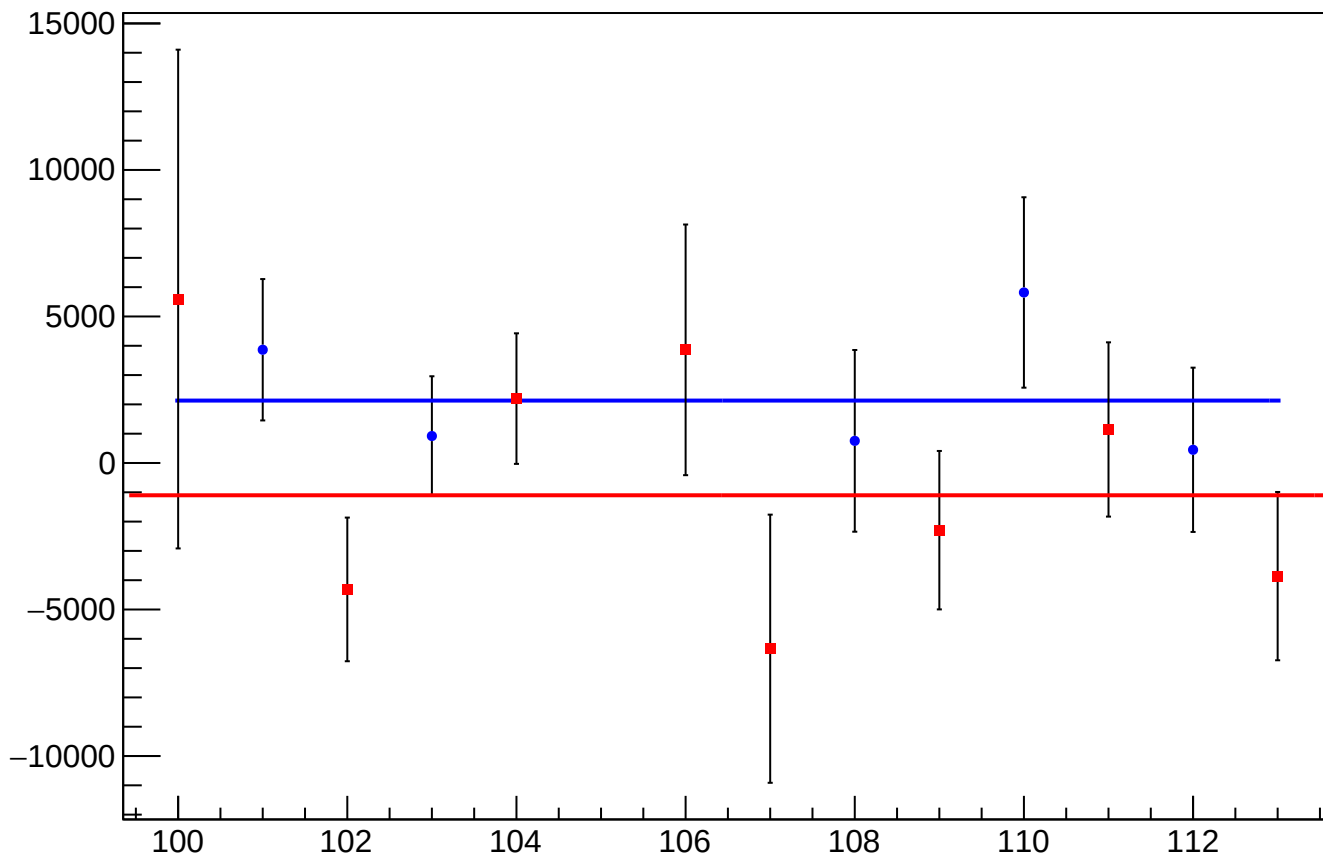
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 636.403+/-0.291  $\chi^2/\text{NDF}$ : 5924589.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl\_avg\_mean vs Slug



Right In: 2129.786 $\pm$ 1163.829  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1101.847 $\pm$ 1081.268  $\chi^2$ /NDF: 8.9/7

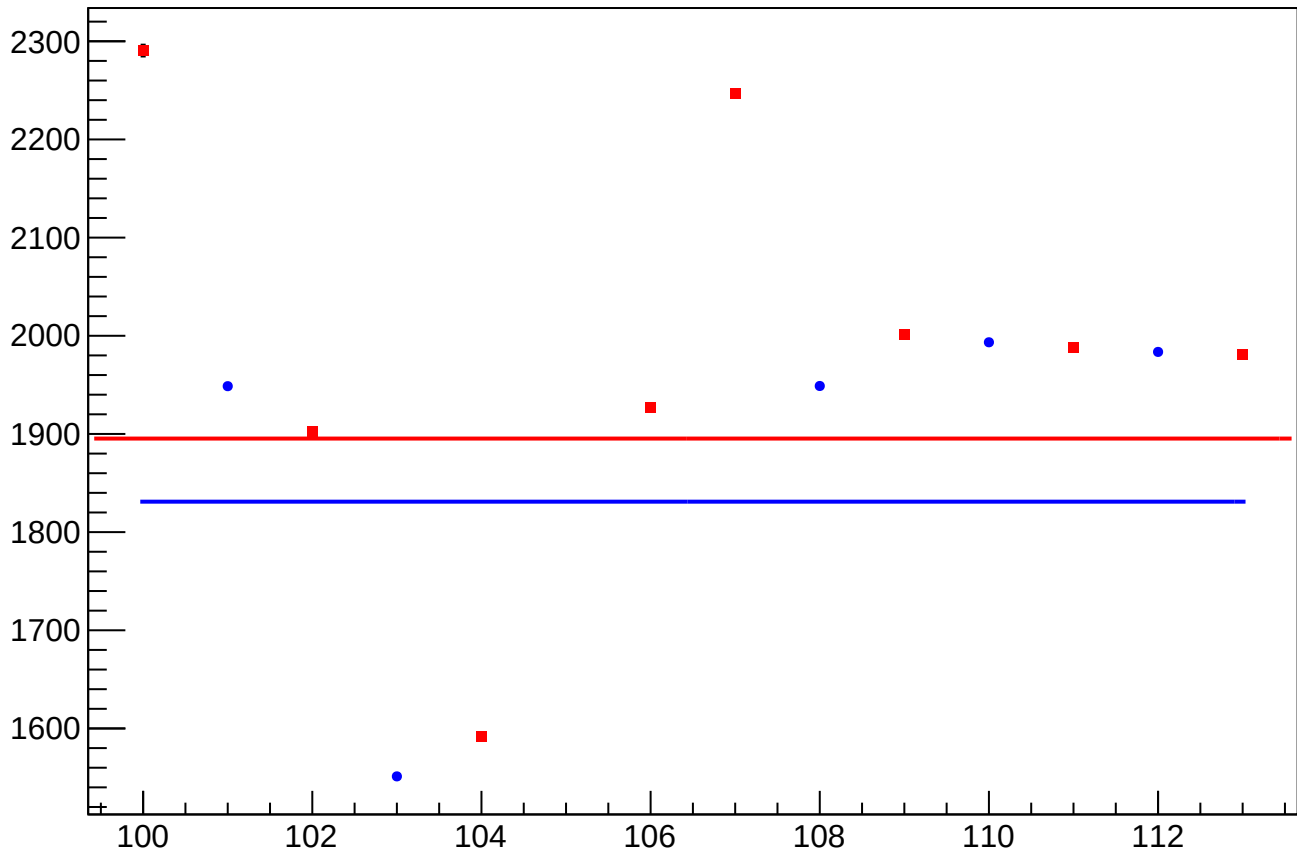
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 395.289 $\pm$ 792.153  $\chi^2$ /NDF: 15.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atl\_avg\_rms vs Slug



Right In: 1831.018+/-0.823  $\chi^2/\text{NDF}$ : 56215.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1895.302+/-0.755  $\chi^2/\text{NDF}$ : 60264.3/7

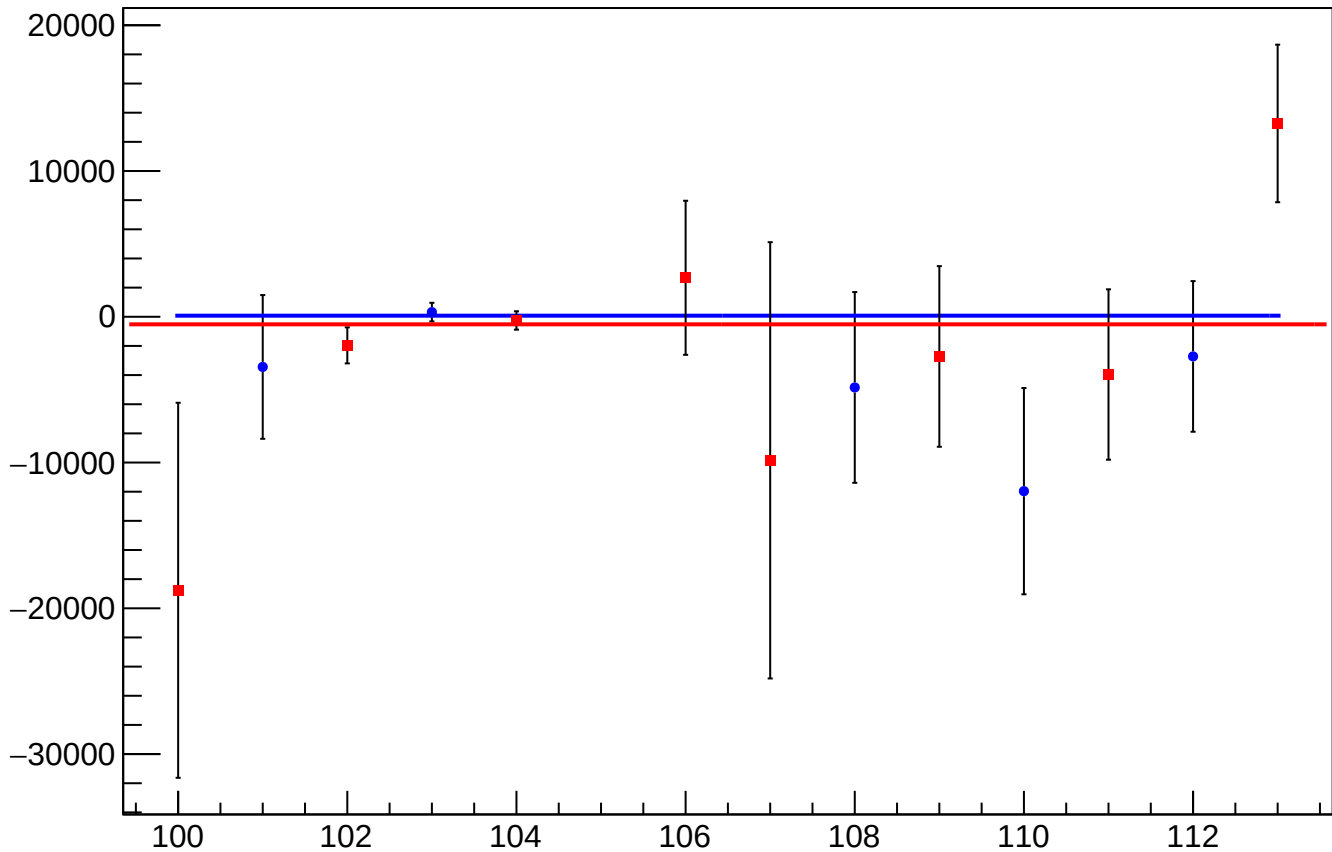
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1865.903+/-0.557  $\chi^2/\text{NDF}$ : 119790.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 74.781+/-622.318  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -518.722+/-549.682  $\chi^2/\text{NDF}$ : 11.3/7

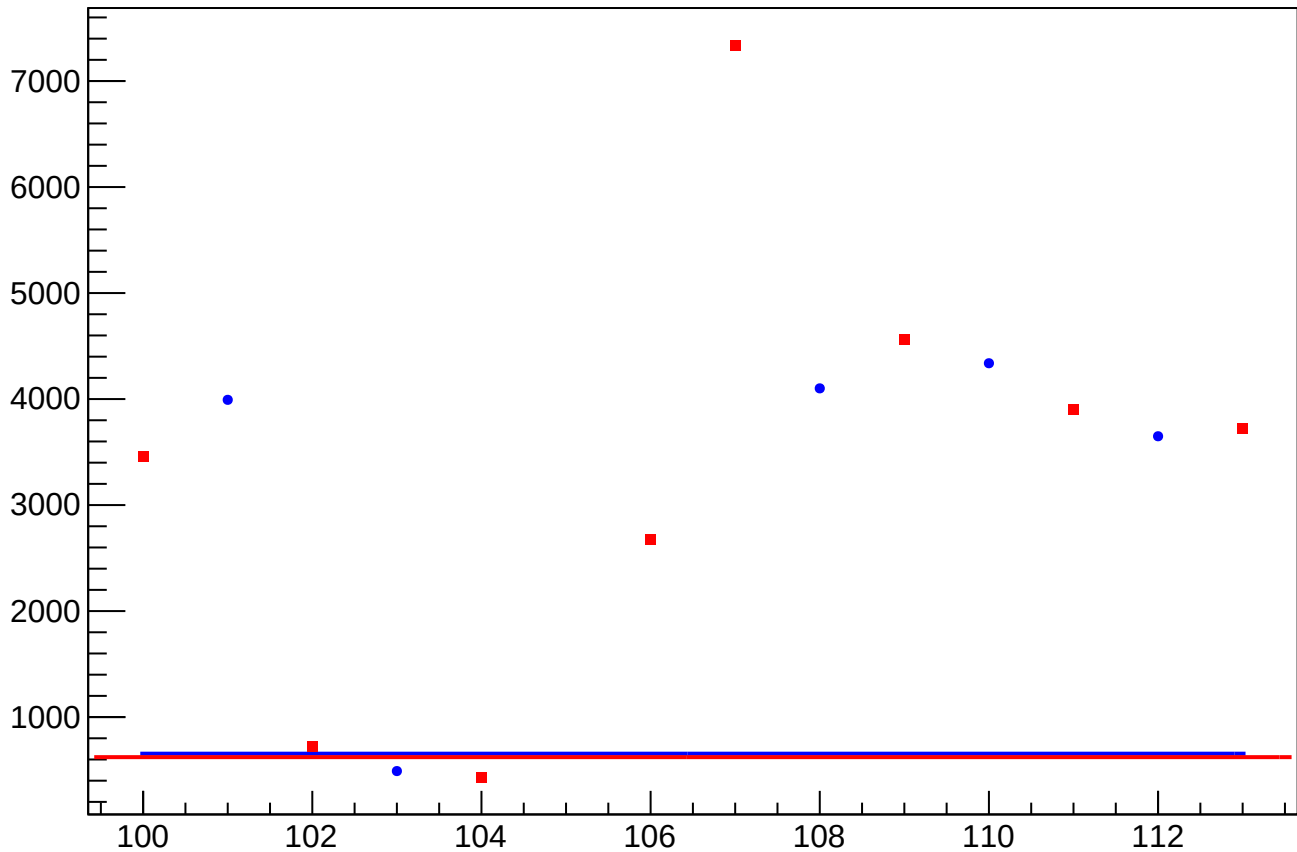
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -258.613+/-411.983  $\chi^2/\text{NDF}$ : 16.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 654.807+/-0.440  $\chi^2/\text{NDF}$ : 2817603.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 622.045+/-0.389  $\chi^2/\text{NDF}$ : 3103872.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

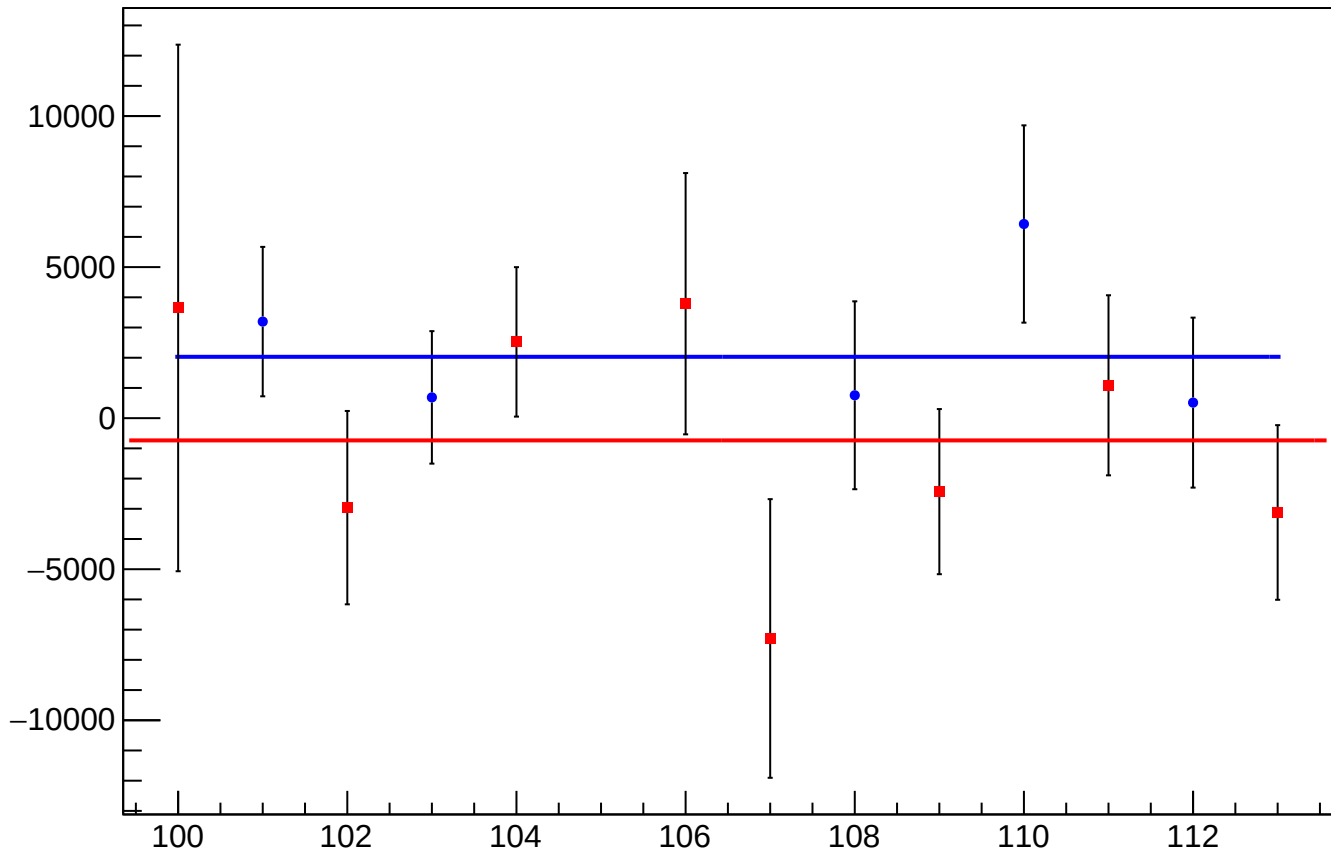
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 636.403+/-0.291  $\chi^2/\text{NDF}$ : 5924589.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_atl\_avg\_mean vs Slug



Right In: 2031.138 $\pm$ 1199.529  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -736.357 $\pm$ 1161.765  $\chi^2$ /NDF: 7.0/7

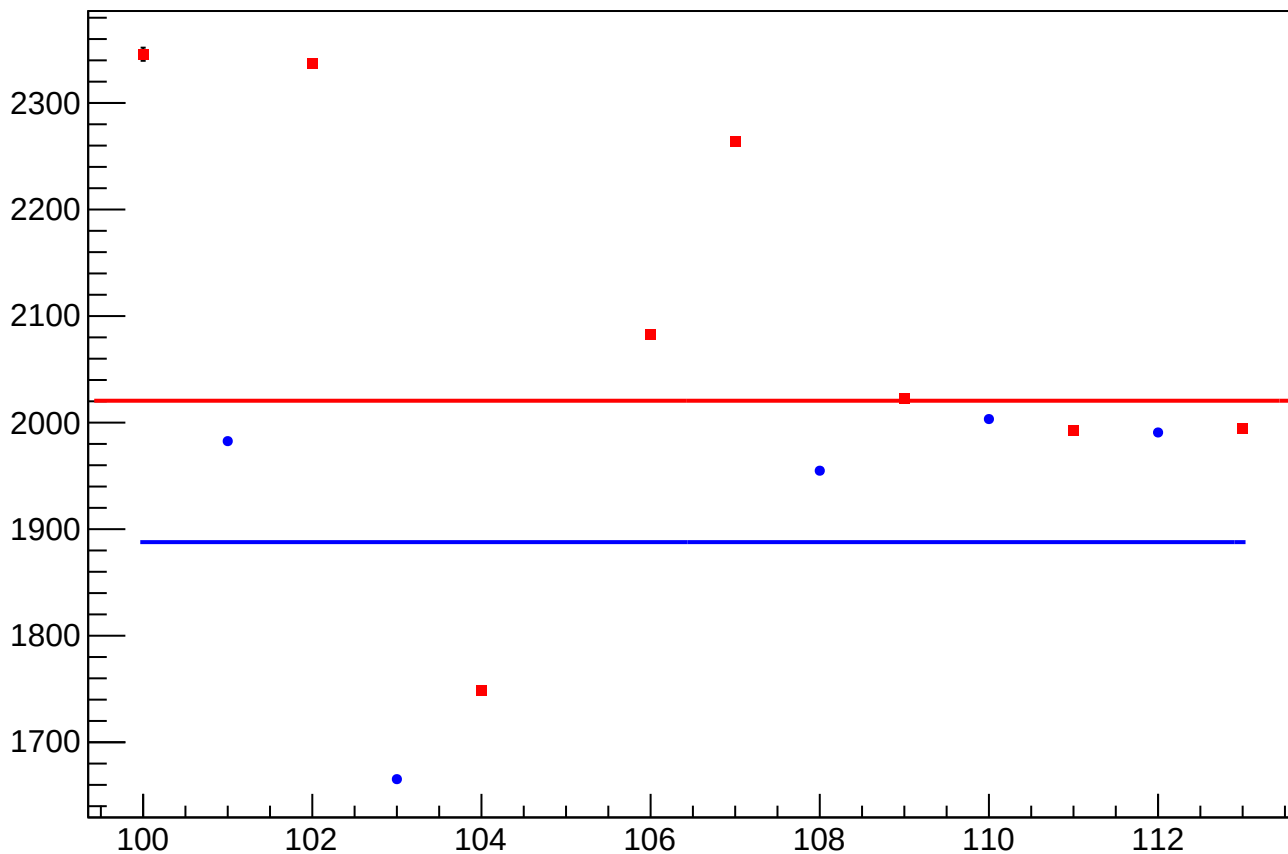
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 603.141 $\pm$ 834.523  $\chi^2$ /NDF: 12.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atl\_avg\_rms vs Slug



Right In: 1887.835 $\pm$ 0.848  $\chi^2$ /NDF: 29630.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2020.543 $\pm$ 0.816  $\chi^2$ /NDF: 52913.8/7

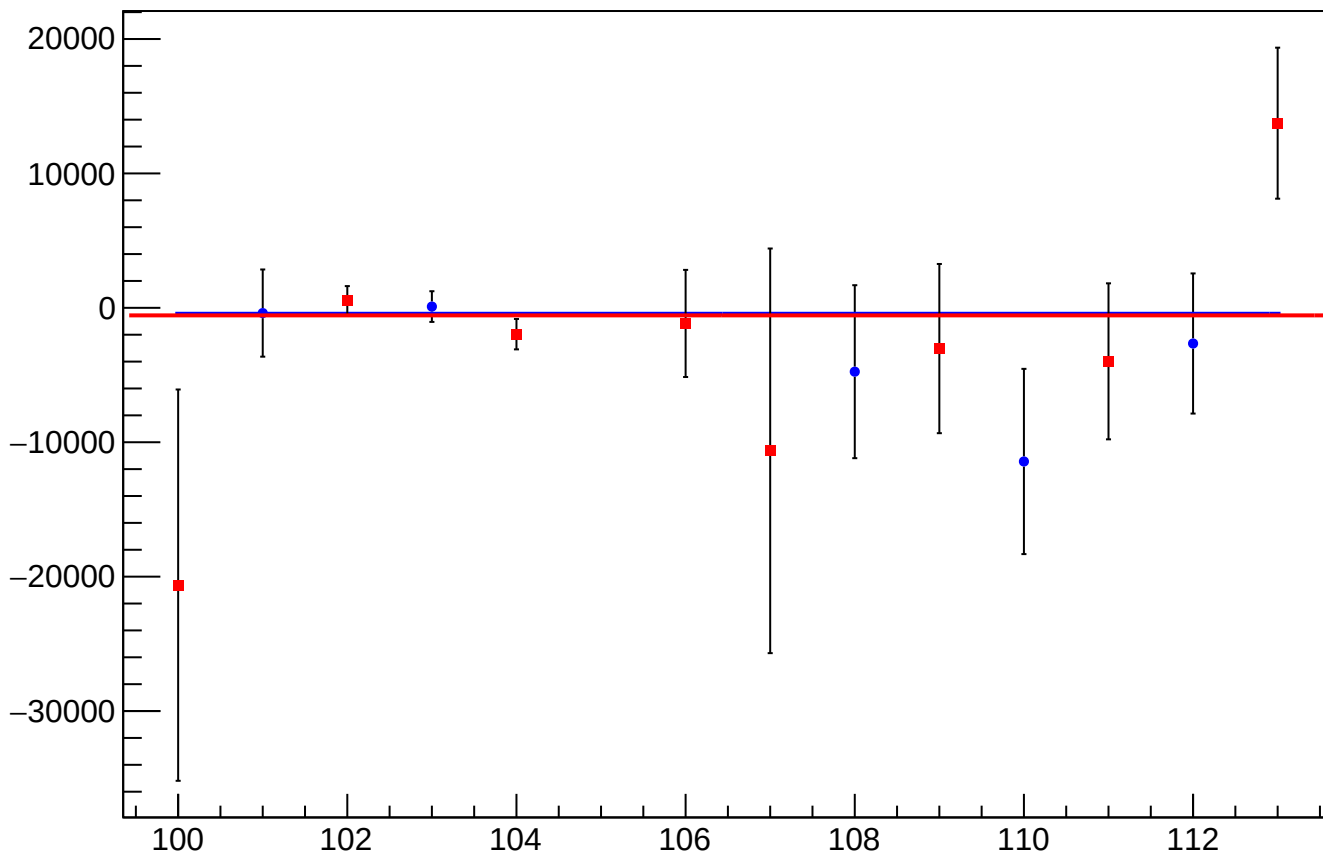
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1956.775 $\pm$ 0.588  $\chi^2$ /NDF: 95261.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_dit\_correction\_mean vs Slug



Right In: -442.424+/-1028.775  $\chi^2/\text{NDF}$ : 3.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -561.497+/-741.040  $\chi^2/\text{NDF}$ : 12.0/7

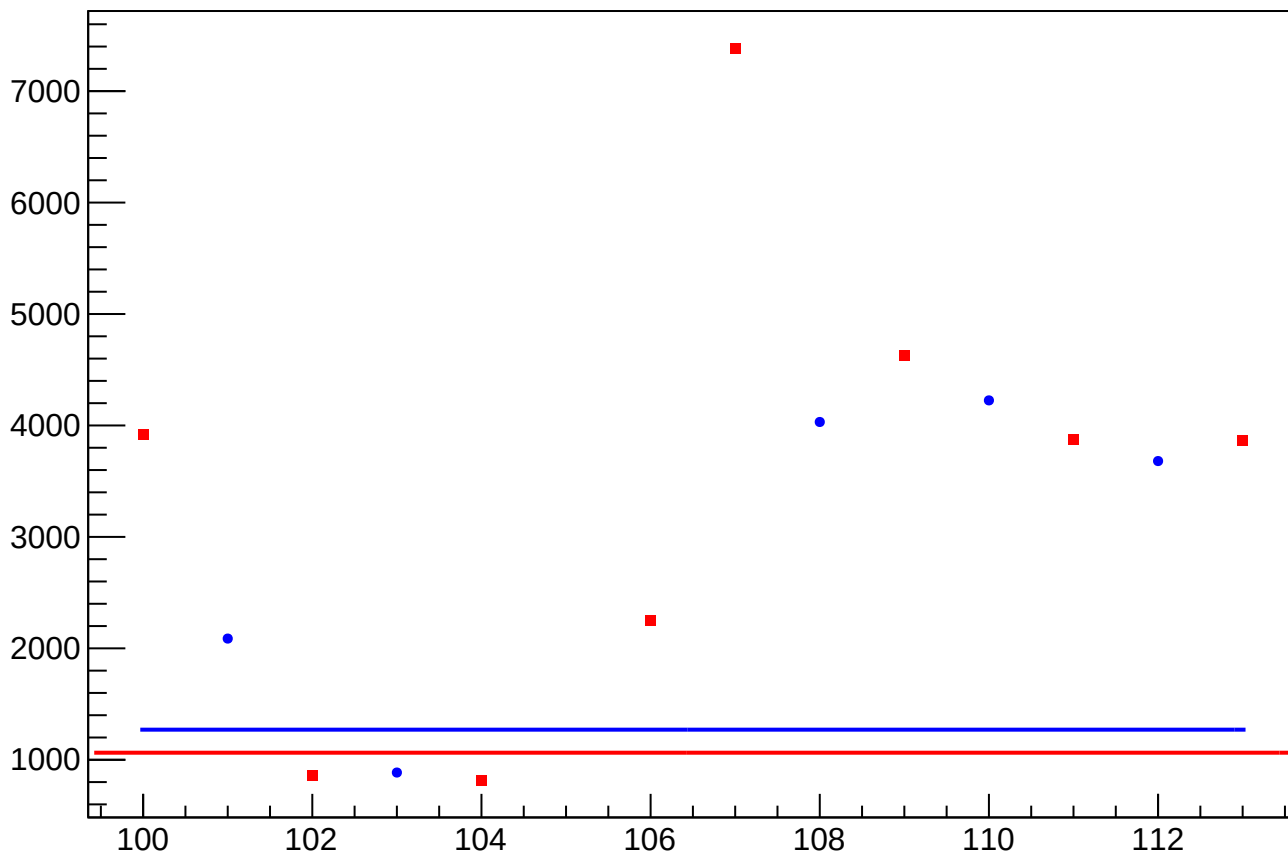
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -520.821+/-601.290  $\chi^2/\text{NDF}$ : 15.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_dit\_correction\_rms vs Slug



Right In: 1270.325+/-0.727  $\chi^2/\text{NDF}$ : 1517773.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1063.643+/-0.524  $\chi^2/\text{NDF}$ : 2390653.3/7

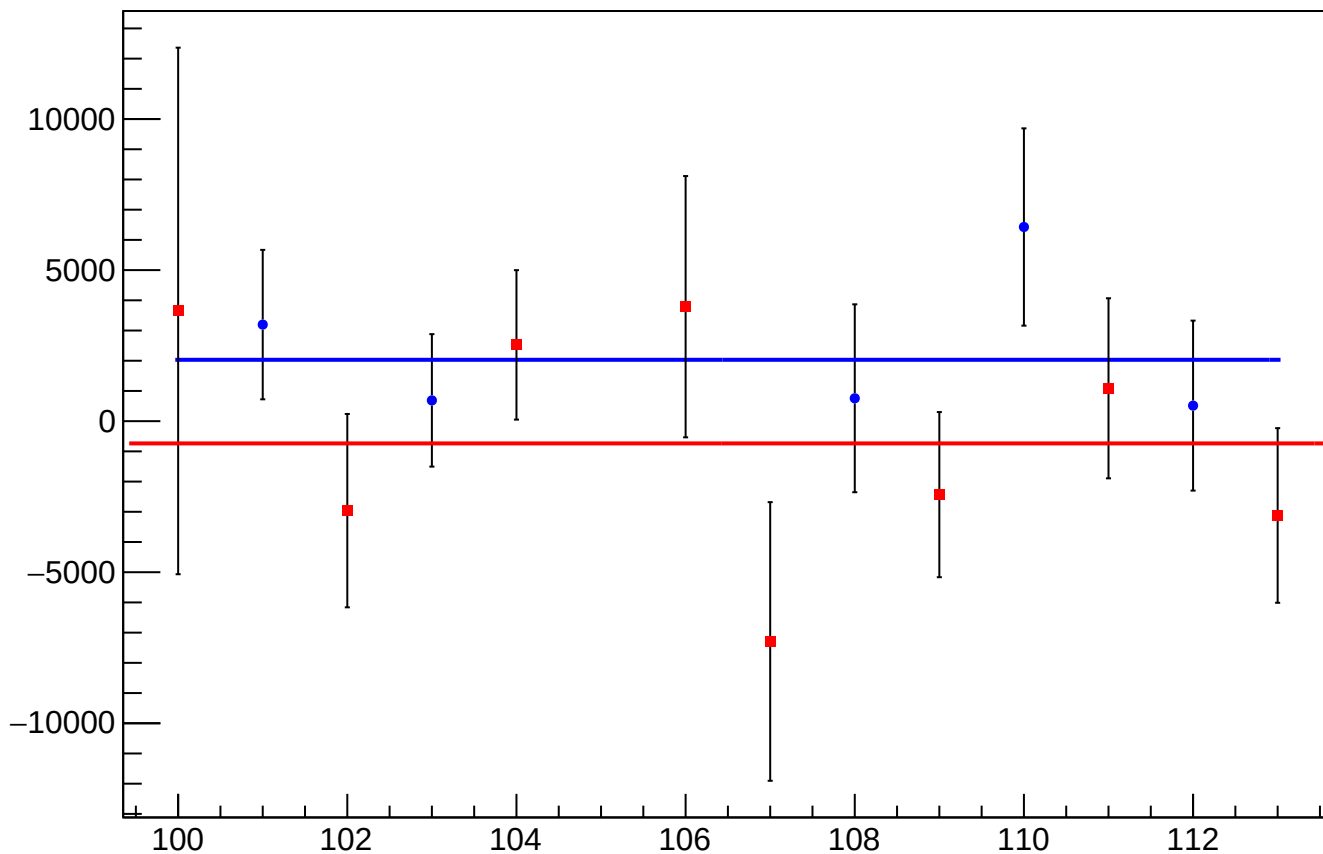
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1134.247+/-0.425  $\chi^2/\text{NDF}$ : 3961573.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl\_avg\_mean vs Slug



Right In: 2031.141 $\pm$ 1199.528  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -736.356 $\pm$ 1161.764  $\chi^2$ /NDF: 7.0/7

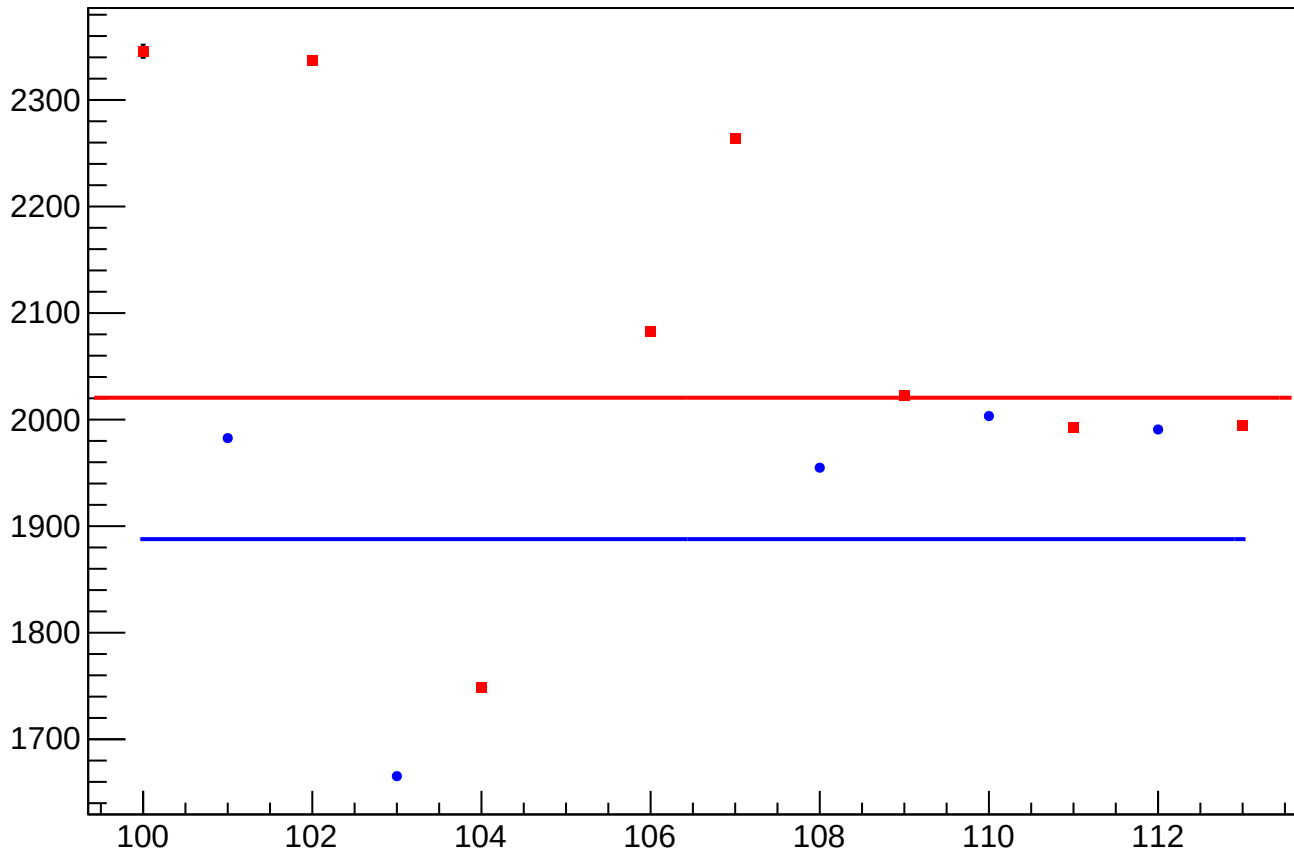
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 603.143 $\pm$ 834.523  $\chi^2$ /NDF: 12.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atl\_avg\_rms vs Slug



Right In: 1887.834 $\pm$ 0.848  $\chi^2$ /NDF: 29630.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2020.542 $\pm$ 0.816  $\chi^2$ /NDF: 52914.0/7

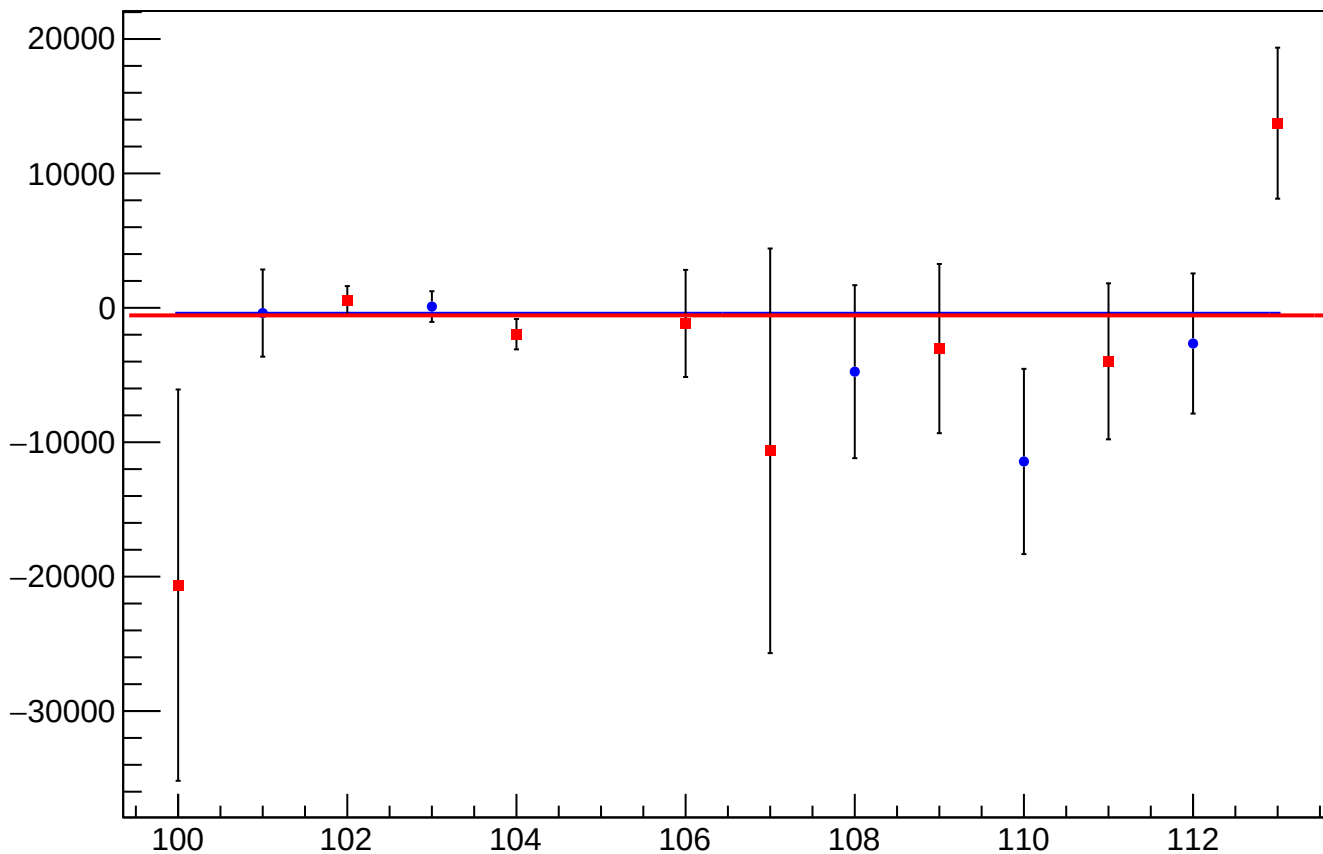
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1956.774 $\pm$ 0.588  $\chi^2$ /NDF: 95261.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -442.416 $\pm$ 1028.767  $\chi^2$ /NDF: 3.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -561.494 $\pm$ 741.034  $\chi^2$ /NDF: 12.0/7

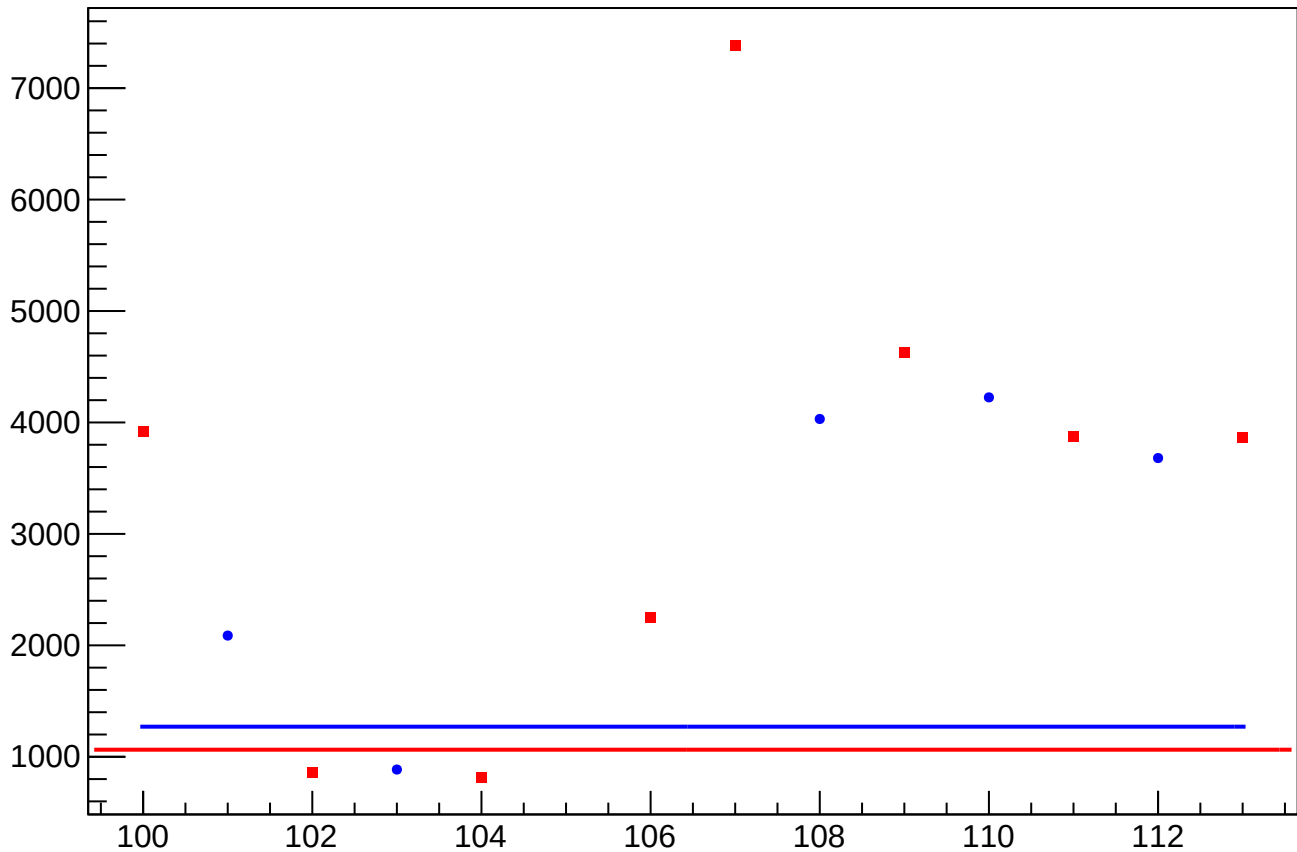
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -520.816 $\pm$ 601.285  $\chi^2$ /NDF: 15.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1270.313+/-0.727  $\chi^2/\text{NDF}$ : 1517779.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1063.633+/-0.524  $\chi^2/\text{NDF}$ : 2390662.8/7

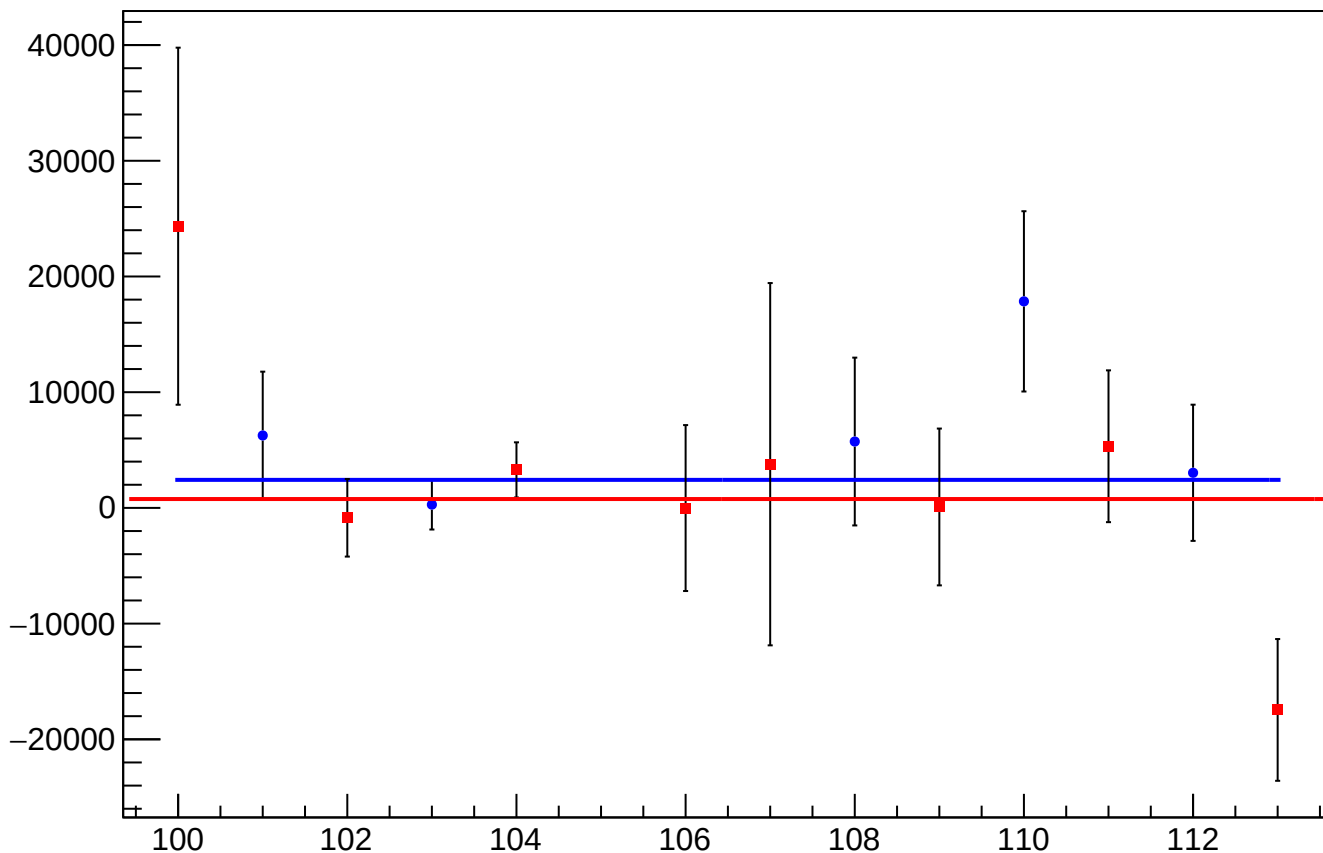
All: 1134.236+/-0.425  $\chi^2/\text{NDF}$ : 3961589.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl\_avg\_mean vs Slug



Right In: 2422.727 $\pm$ 1787.512  $\chi^2$ /NDF: 5.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 766.344 $\pm$ 1656.967  $\chi^2$ /NDF: 13.1/7

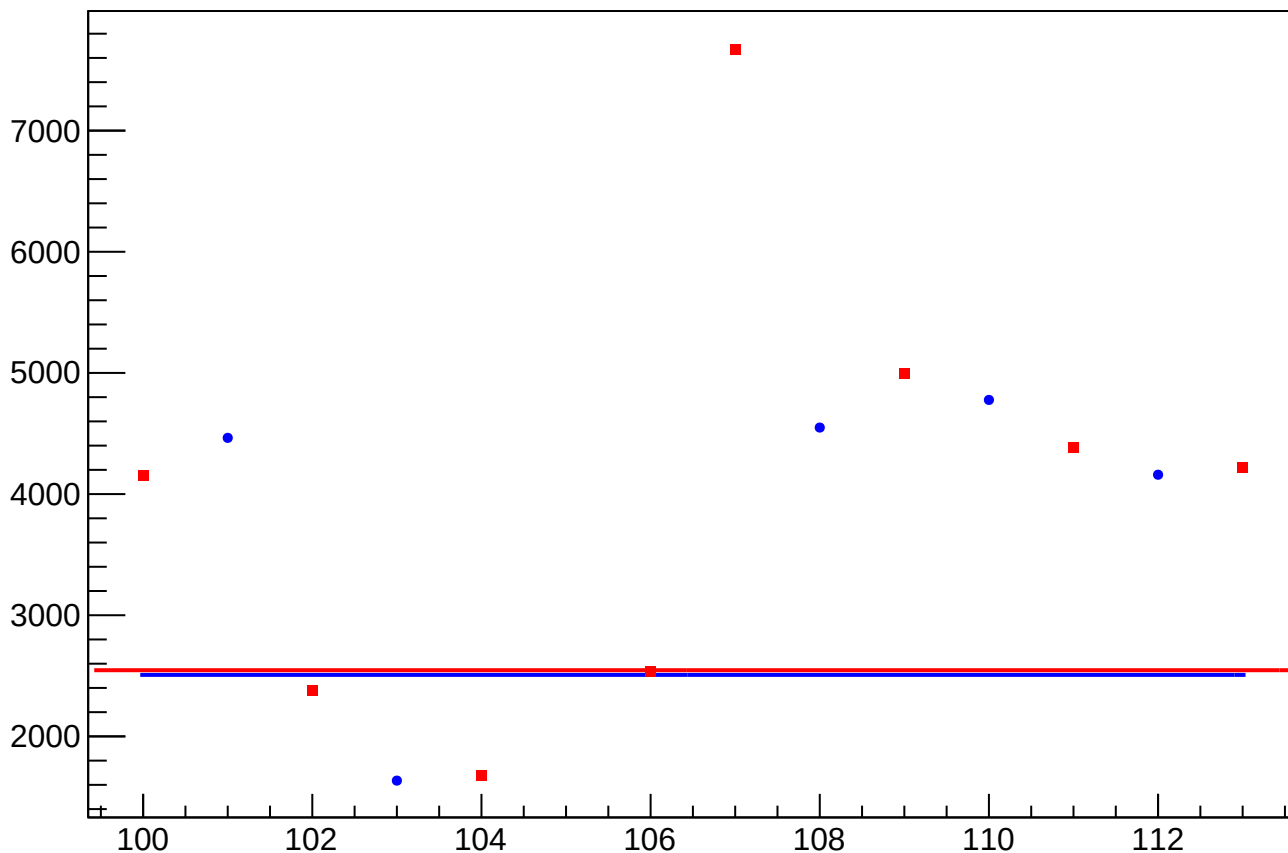
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1531.849 $\pm$ 1215.185  $\chi^2$ /NDF: 19.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_rms vs Slug



Right In: 2507.717+/-1.264  $\chi^2/\text{NDF}$ : 1066186.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2546.261+/-1.140  $\chi^2/\text{NDF}$ : 1077309.7/7

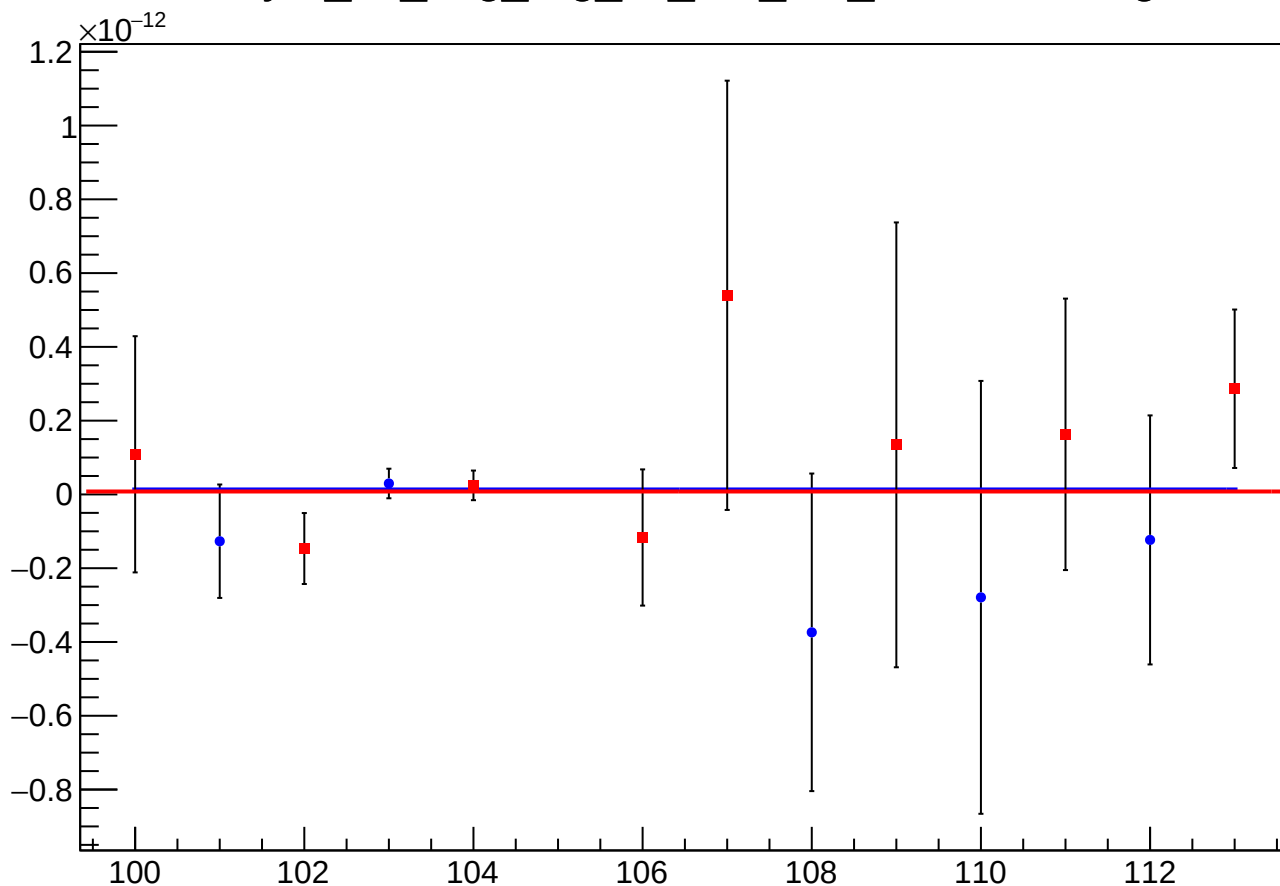
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2528.976+/-0.846  $\chi^2/\text{NDF}$ : 2144009.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.0/7

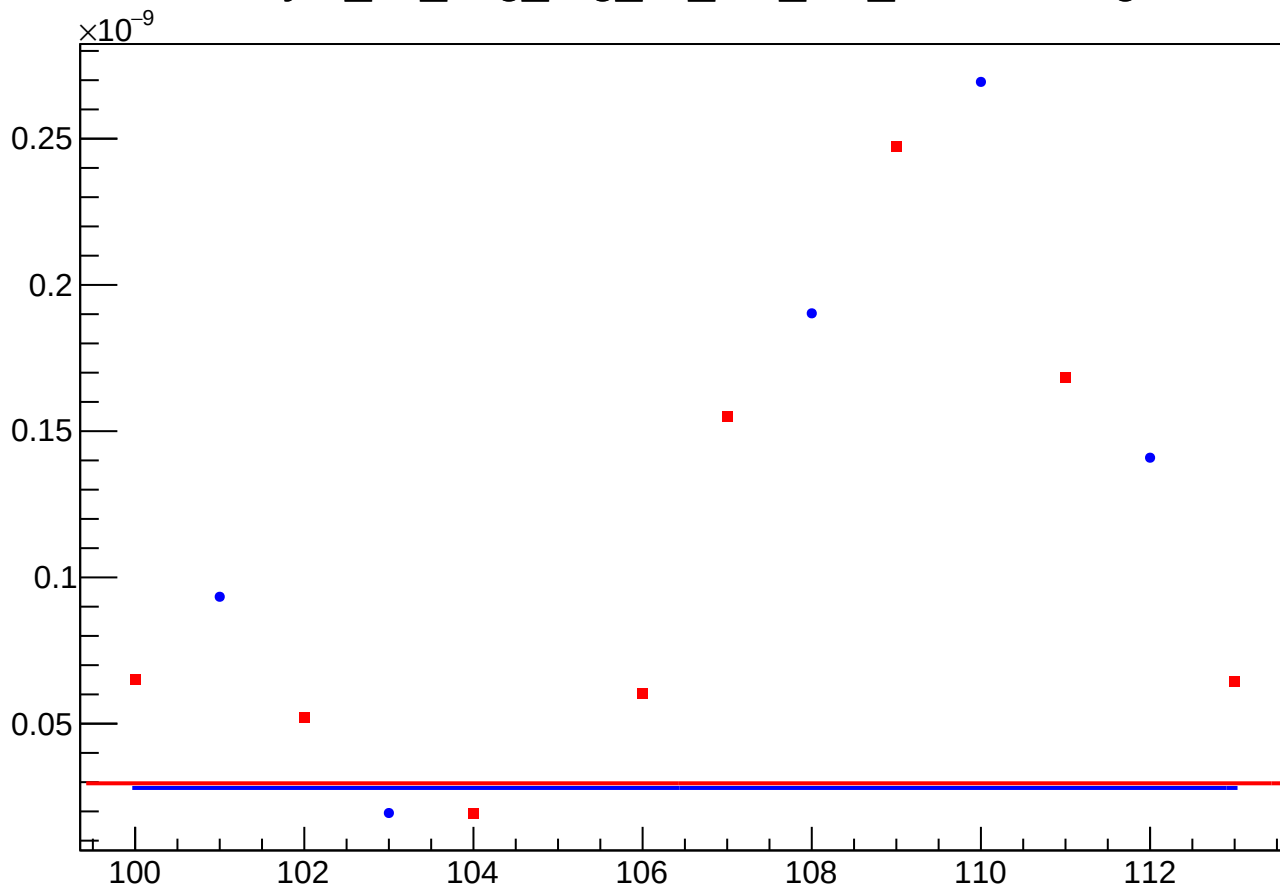
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1299382.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1016329.5/7

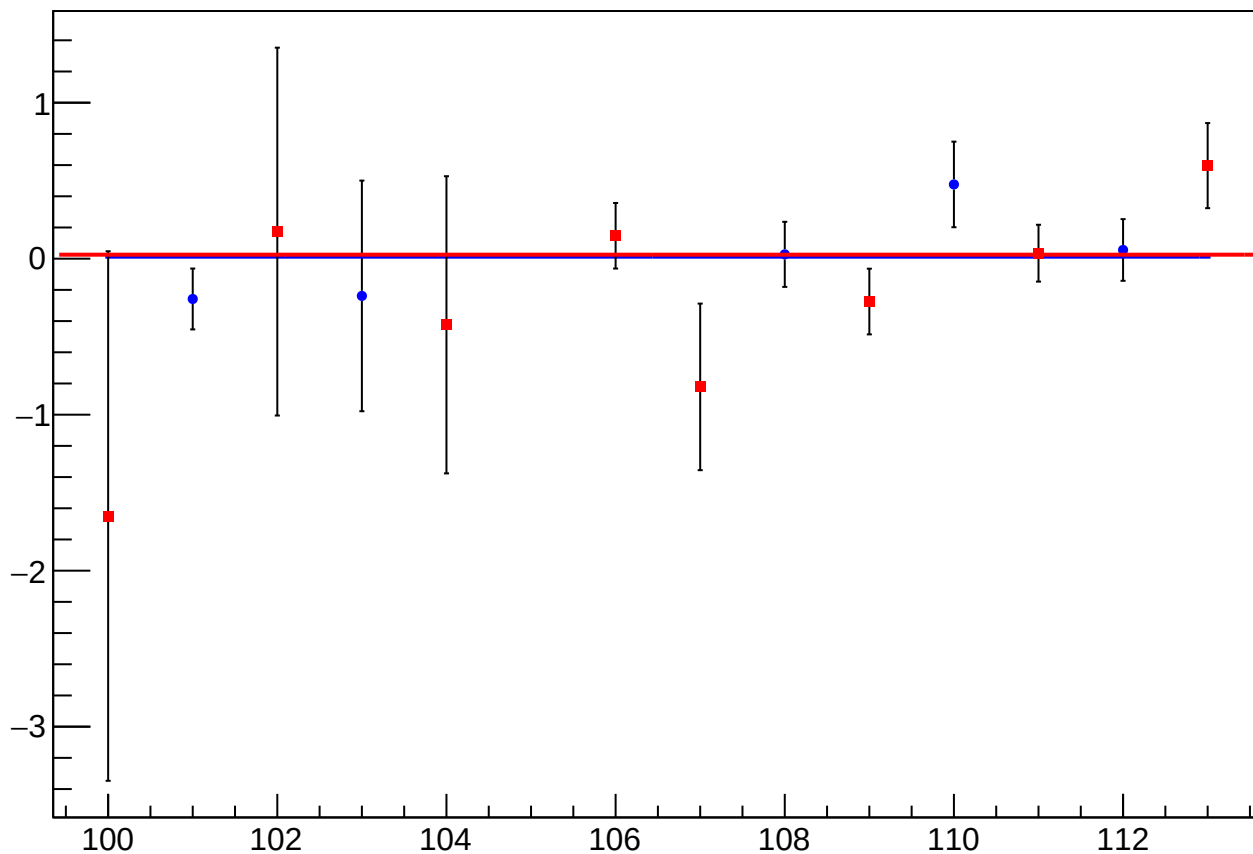
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2317568.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.105  $\chi^2$ /NDF: 5.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.026 $\pm$ 0.103  $\chi^2$ /NDF: 10.5/7

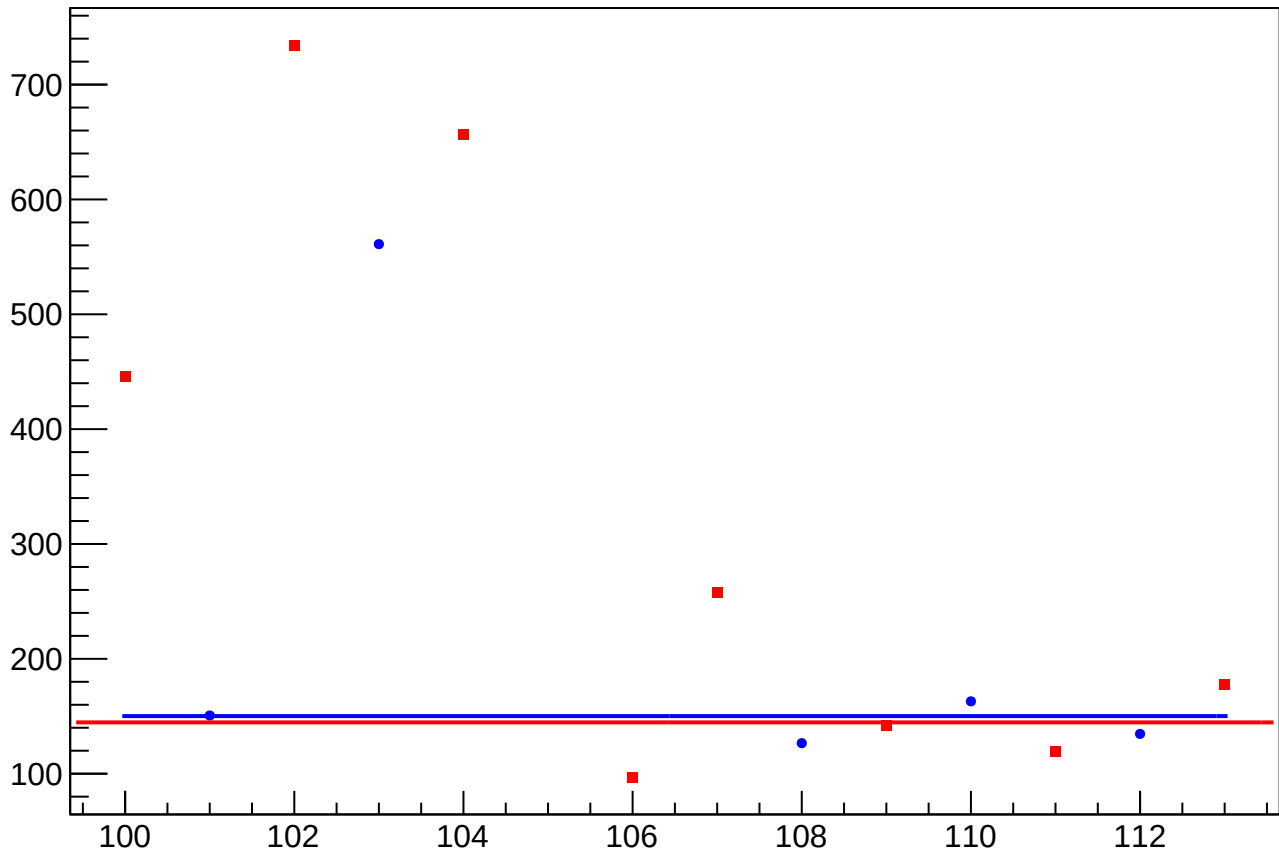
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.074  $\chi^2$ /NDF: 15.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 150.141 $\pm$ 0.075  $\chi^2$ /NDF: 660210.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 144.670 $\pm$ 0.073  $\chi^2$ /NDF: 1404034.3/7

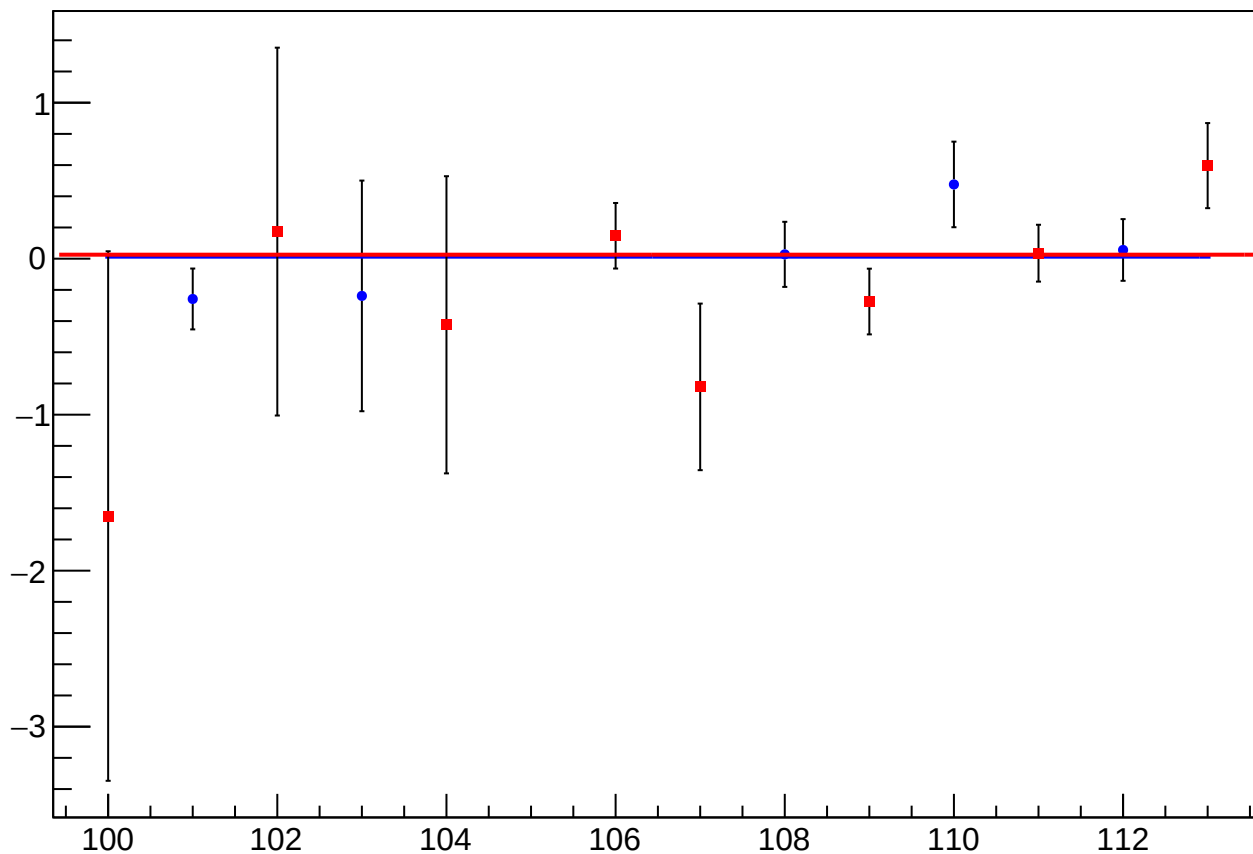
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 147.339 $\pm$ 0.052  $\chi^2$ /NDF: 2067002.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.013+/-0.105  $\chi^2/\text{NDF}$ : 5.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.026+/-0.103  $\chi^2/\text{NDF}$ : 10.5/7

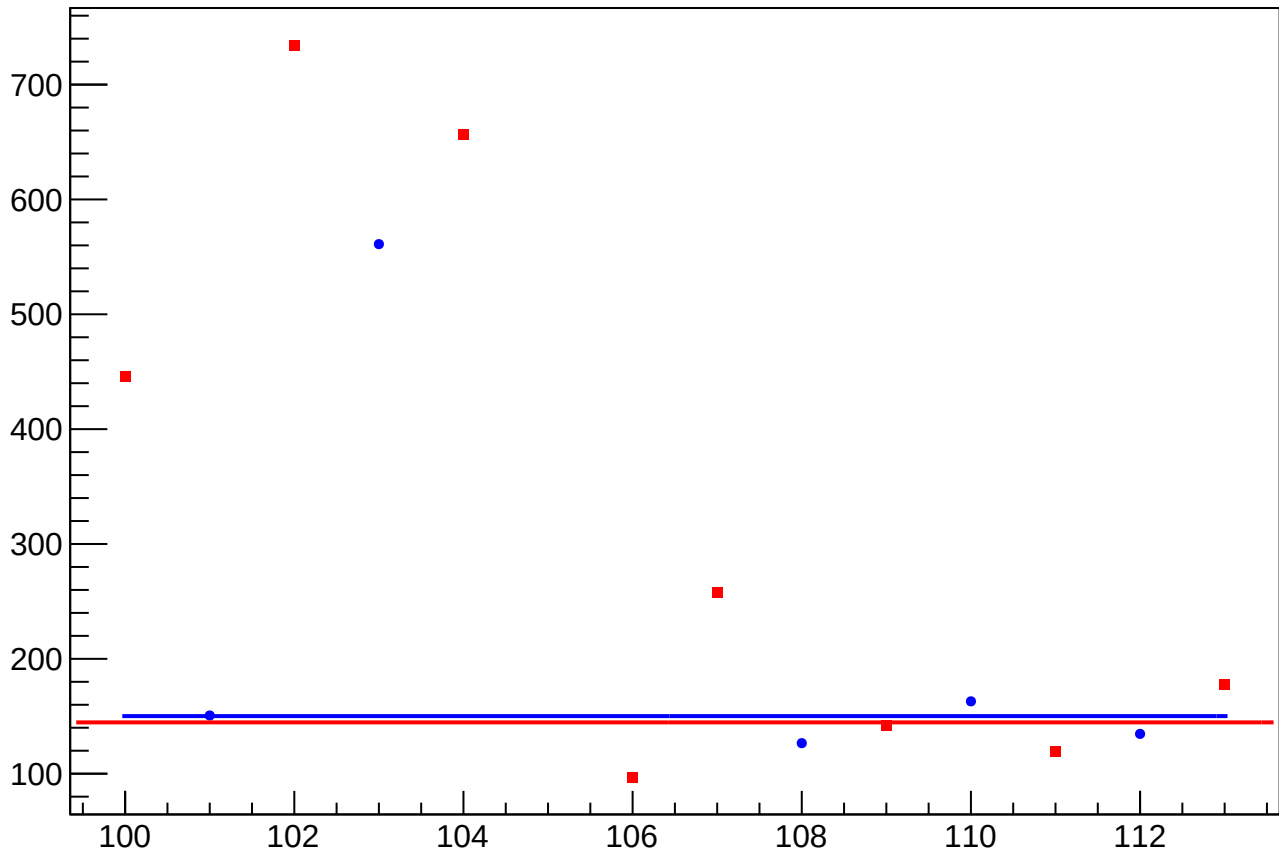
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.019+/-0.074  $\chi^2/\text{NDF}$ : 15.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 150.141 $\pm$ 0.075  $\chi^2$ /NDF: 660210.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 144.670 $\pm$ 0.073  $\chi^2$ /NDF: 1404034.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

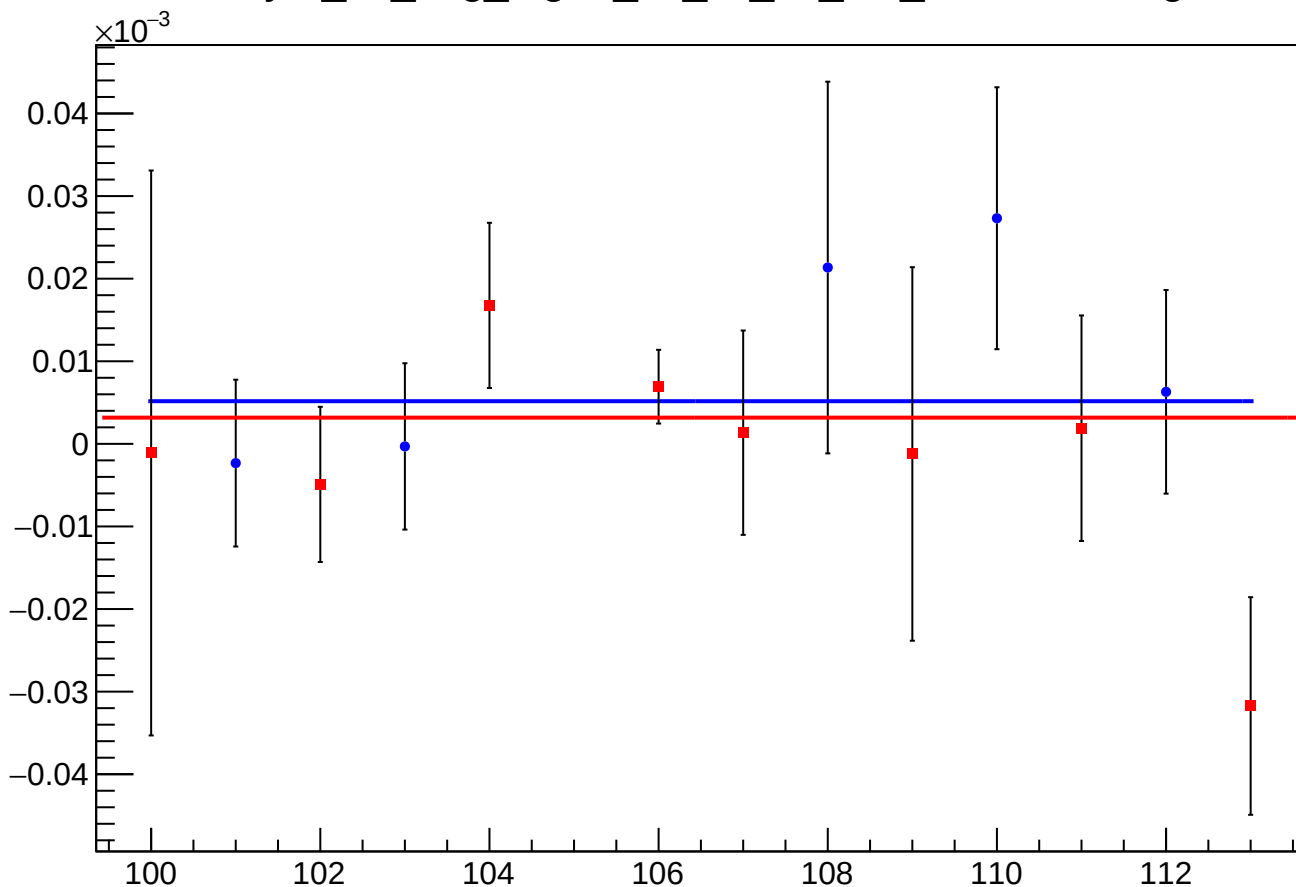
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 147.339 $\pm$ 0.052  $\chi^2$ /NDF: 2067002.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_atl\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.4/7

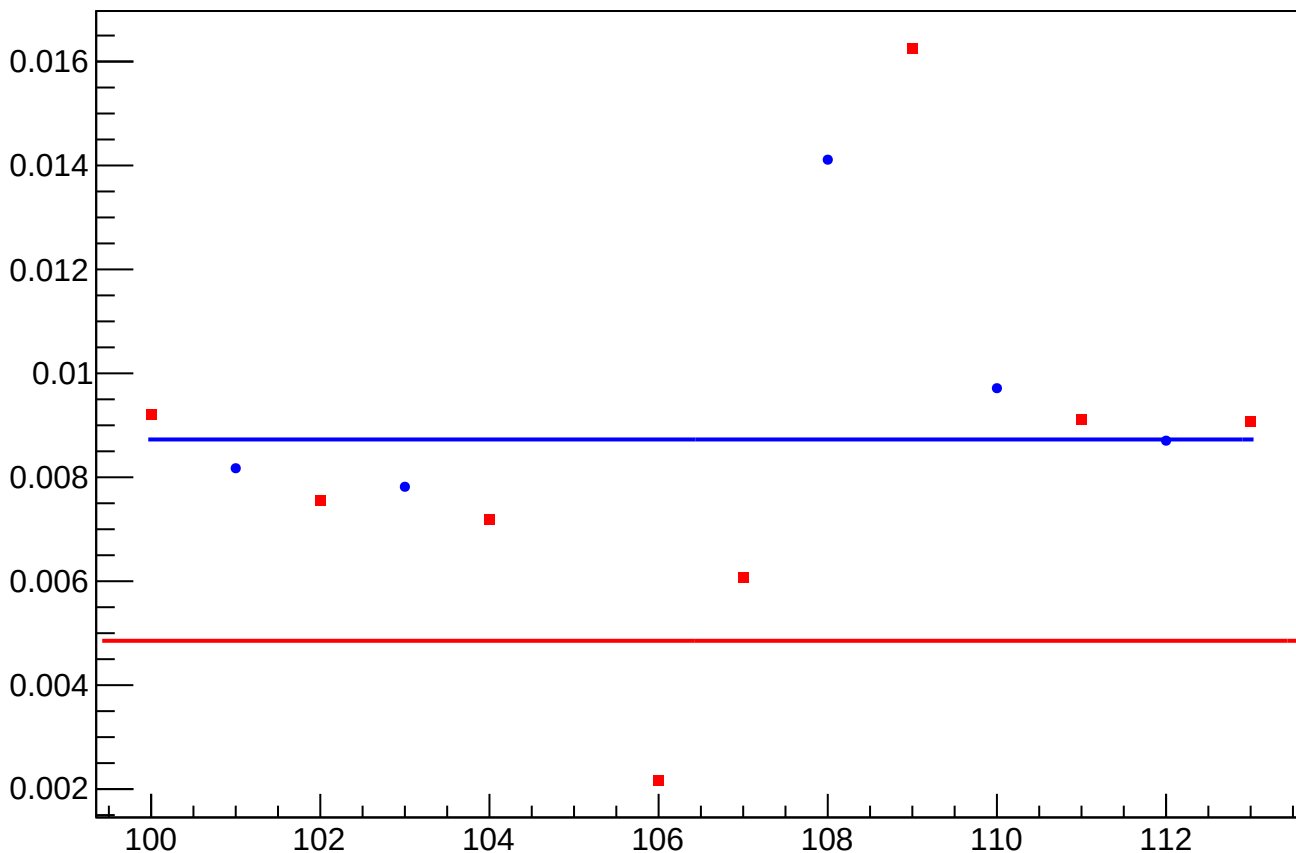
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 144594.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1960686.1/7

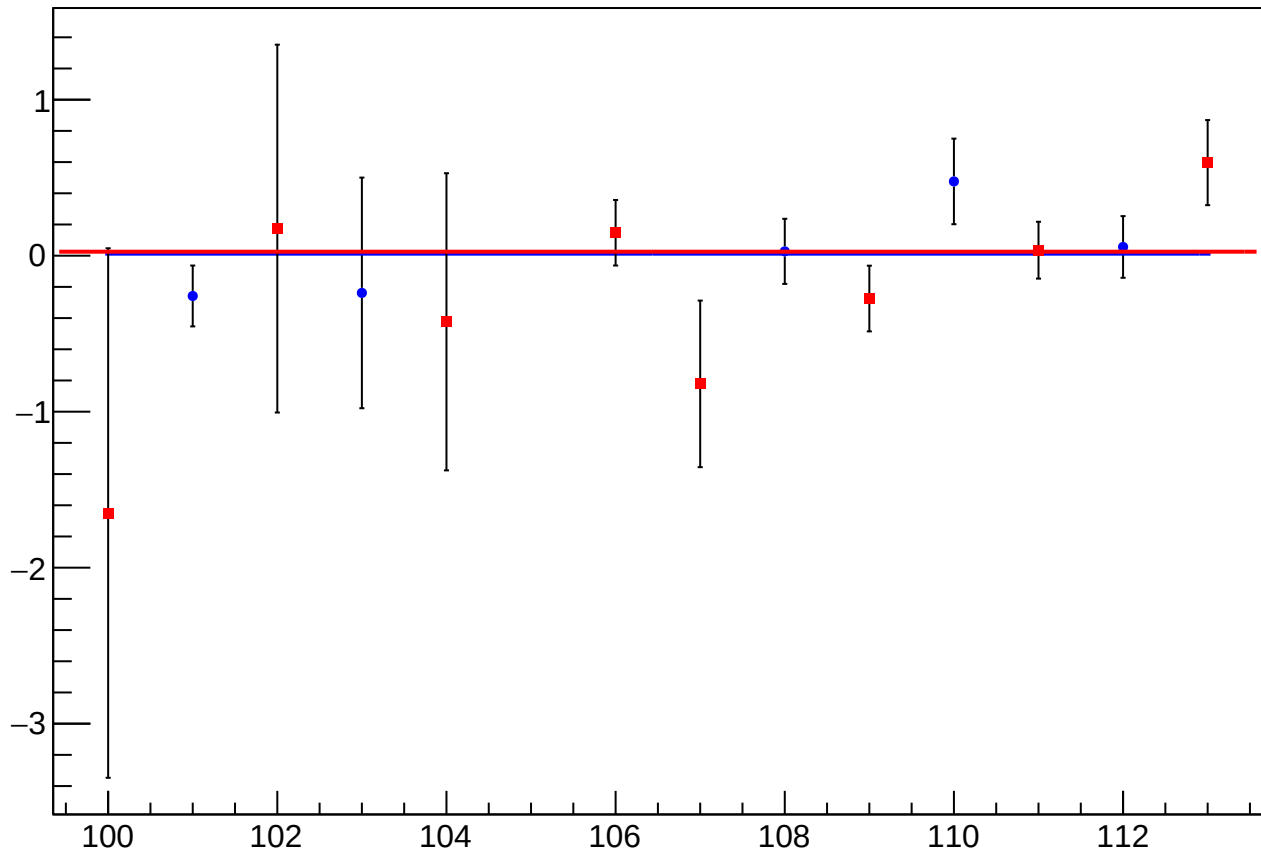
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2821110.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.105  $\chi^2$ /NDF: 5.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.026 $\pm$ 0.103  $\chi^2$ /NDF: 10.5/7

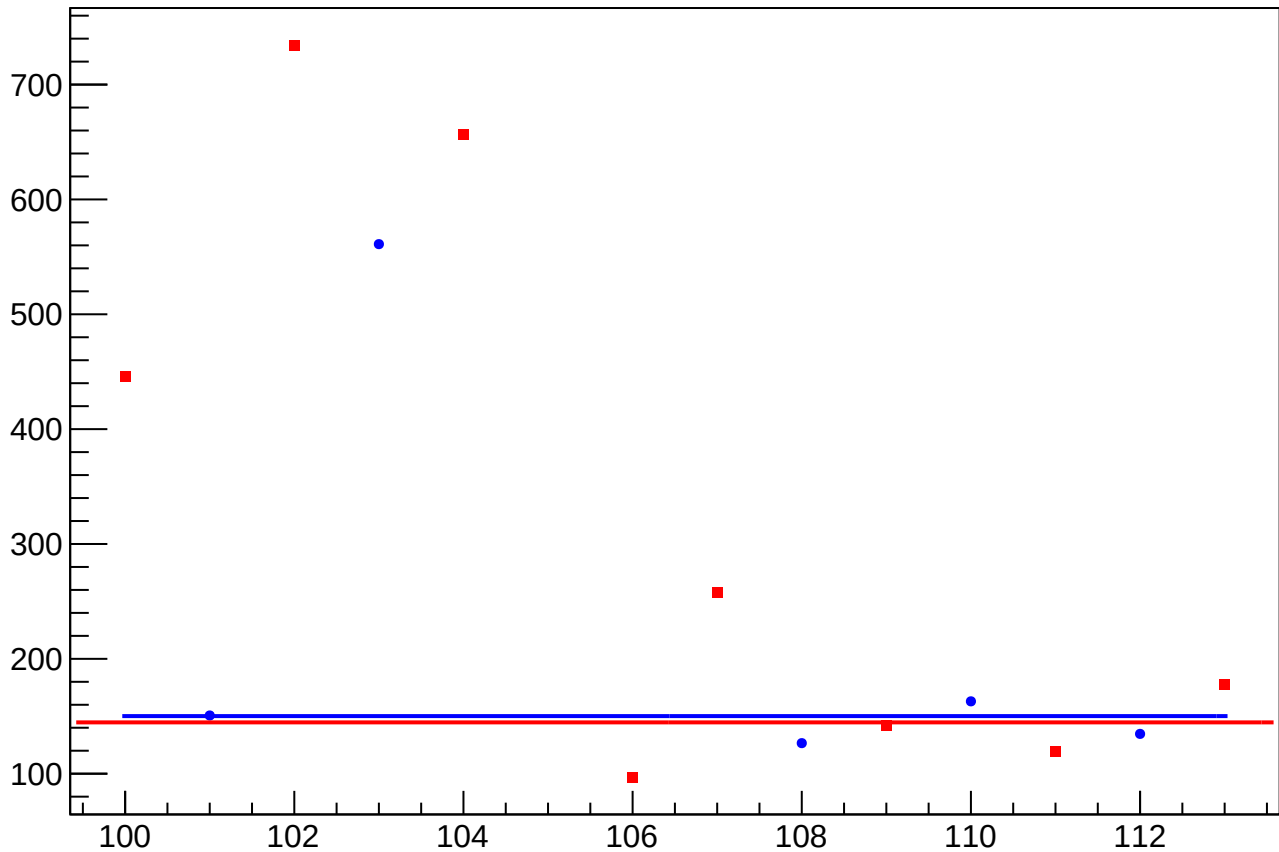
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.074  $\chi^2$ /NDF: 15.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 150.143+/-0.075  $\chi^2/\text{NDF}$ : 660186.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 144.671+/-0.073  $\chi^2/\text{NDF}$ : 1404008.9/7

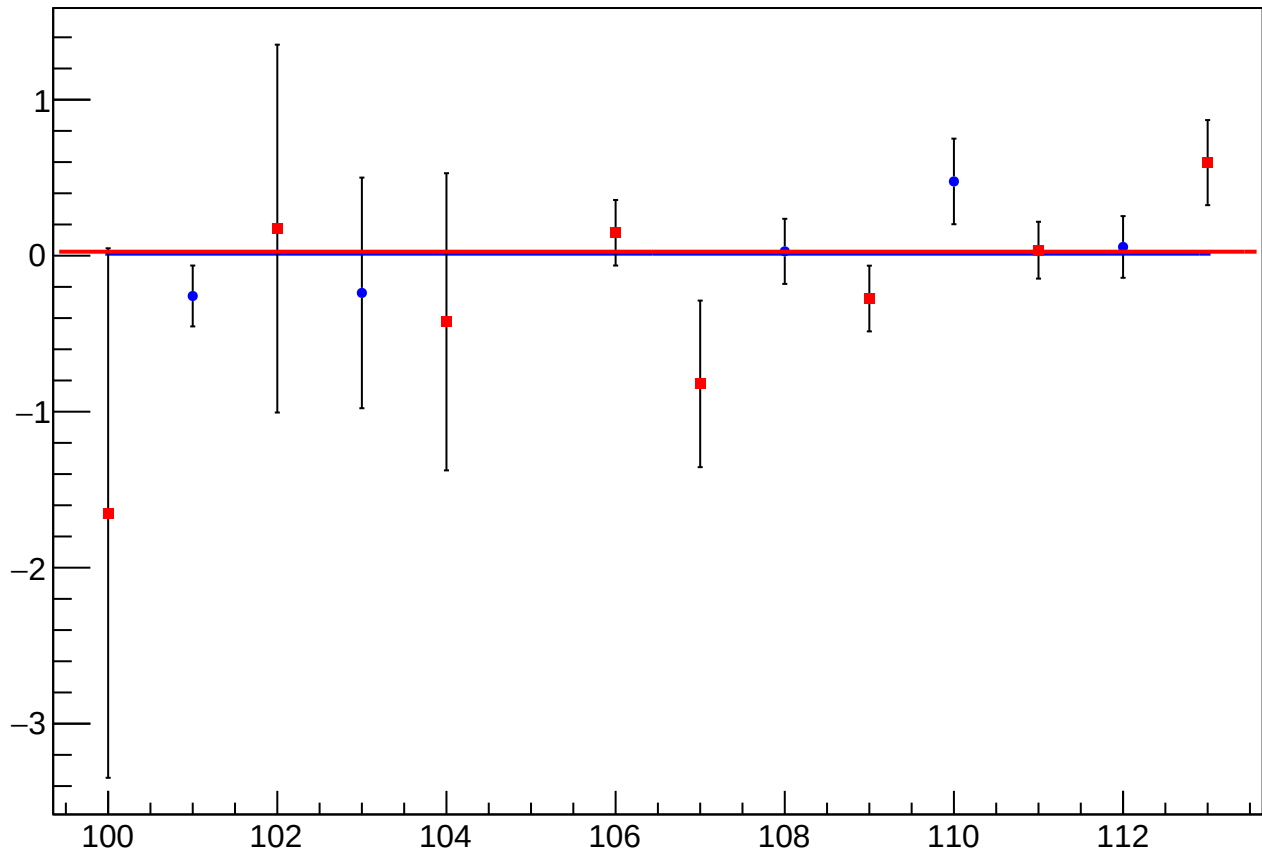
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 147.341+/-0.052  $\chi^2/\text{NDF}$ : 2066954.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.105  $\chi^2$ /NDF: 5.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.026 $\pm$ 0.103  $\chi^2$ /NDF: 10.5/7

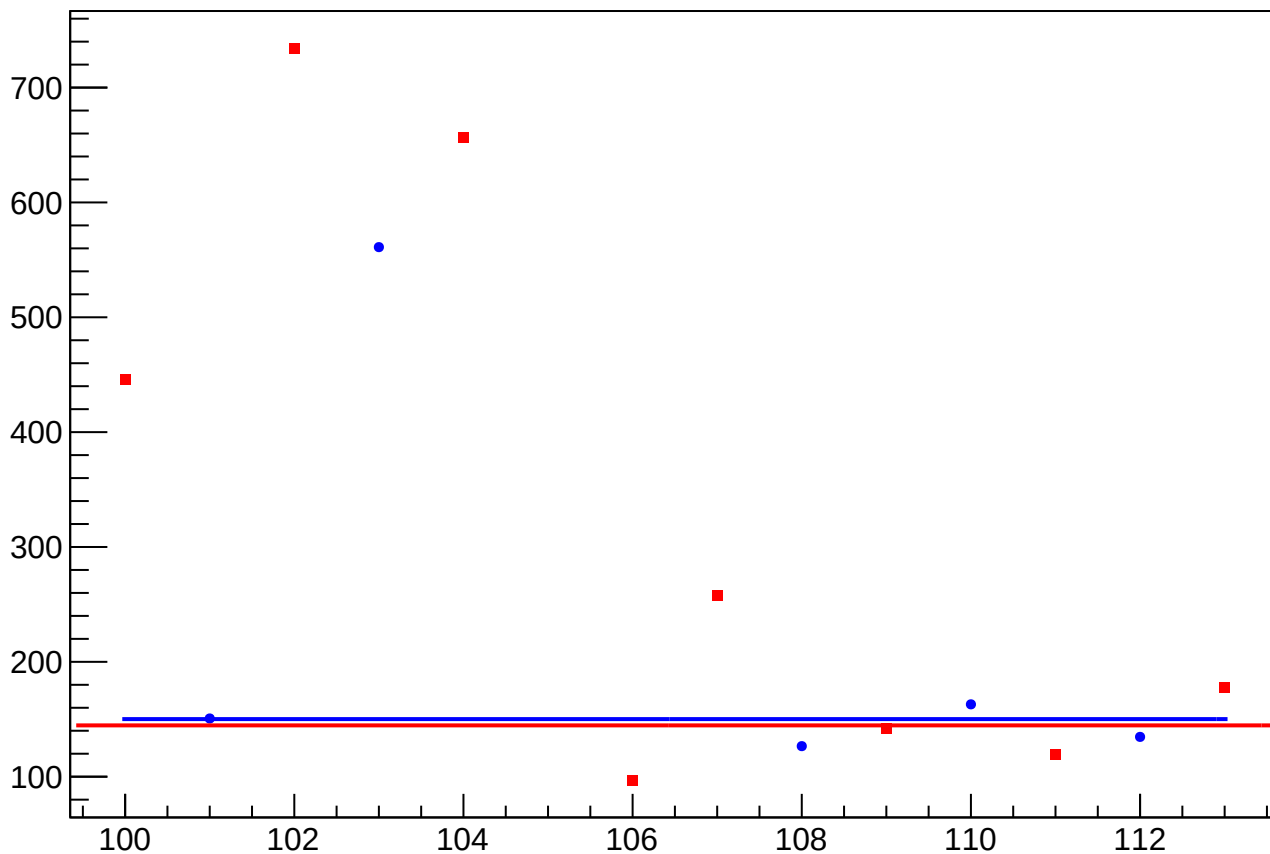
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.074  $\chi^2$ /NDF: 15.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 150.143+/-0.075  $\chi^2/\text{NDF}$ : 660186.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 144.671+/-0.073  $\chi^2/\text{NDF}$ : 1404008.9/7

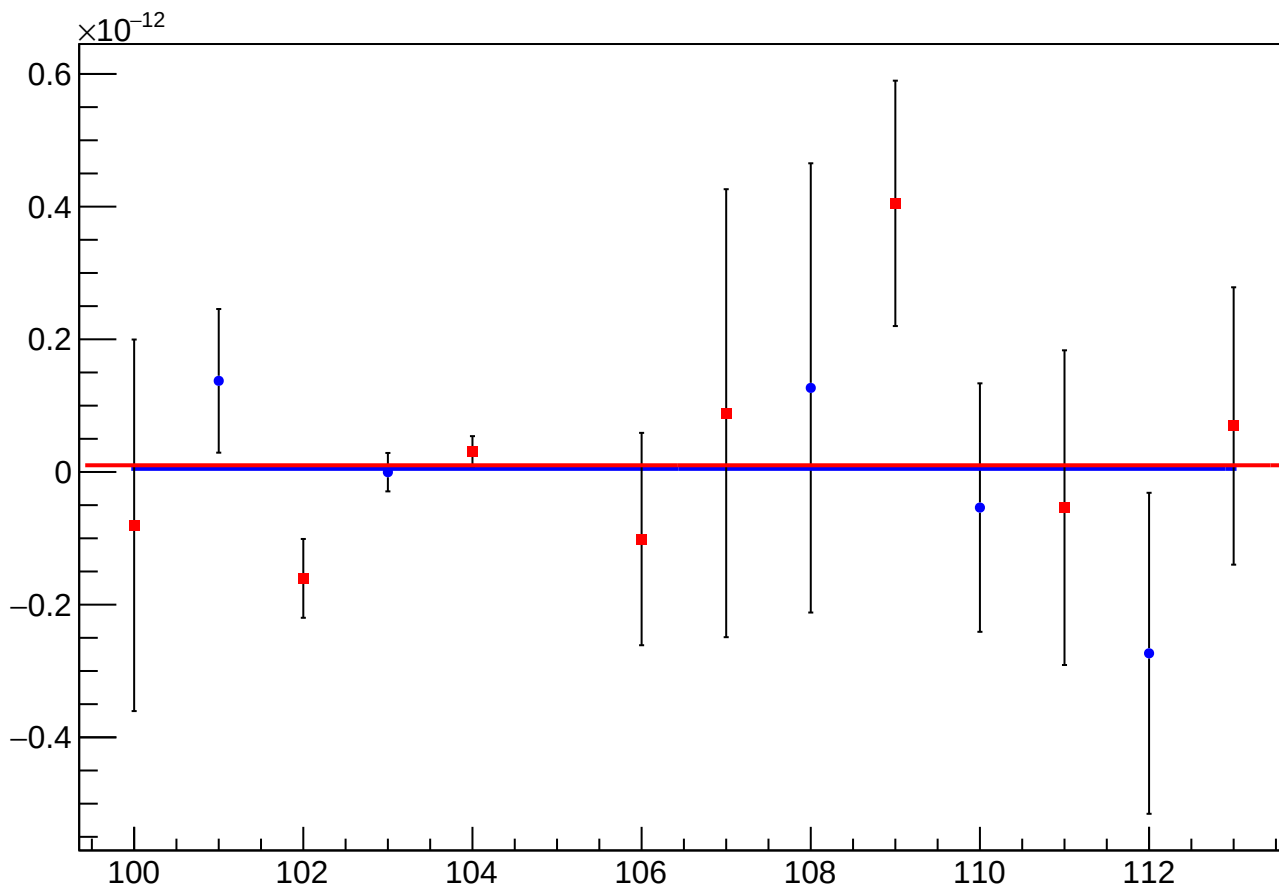
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 147.341+/-0.052  $\chi^2/\text{NDF}$ : 2066954.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.5/7

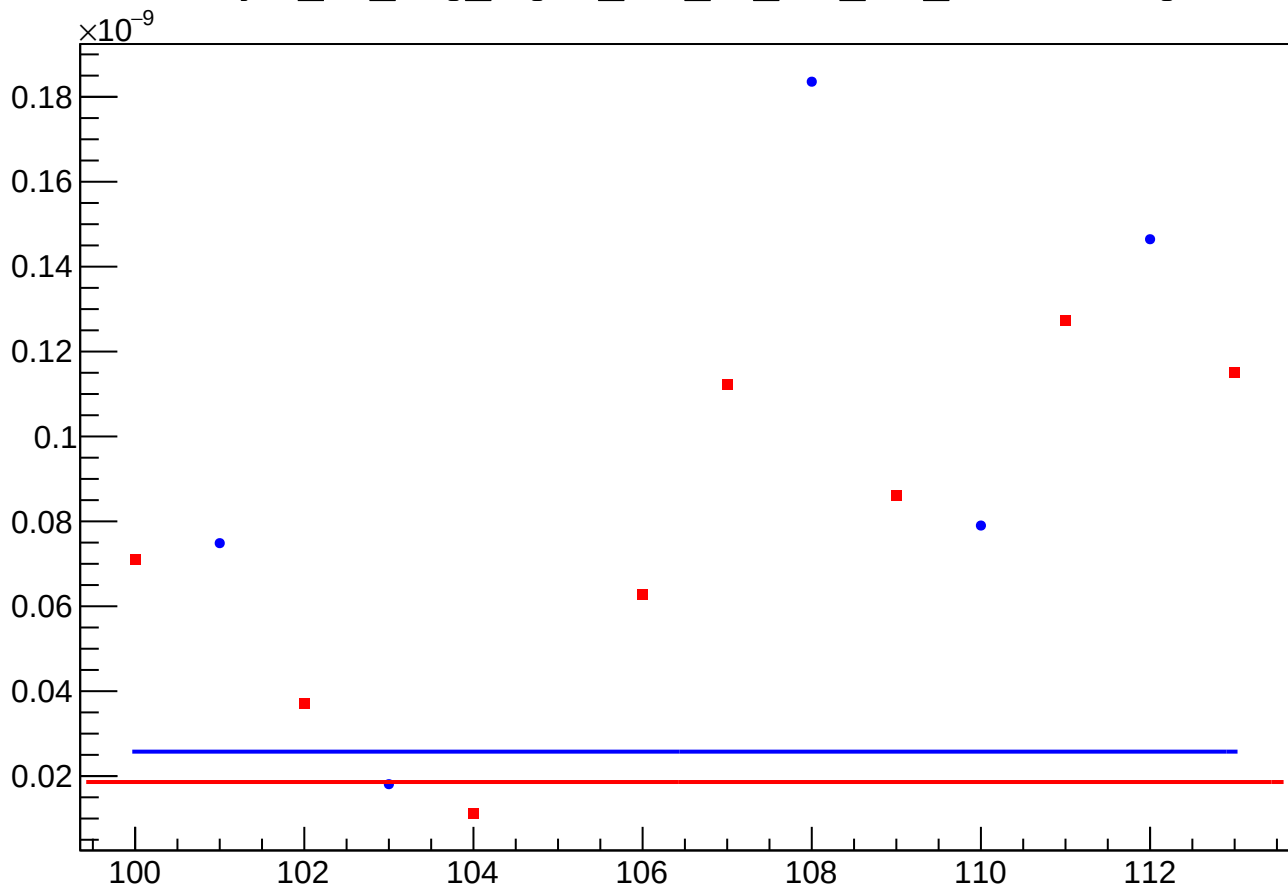
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1645655.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1897969.6/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

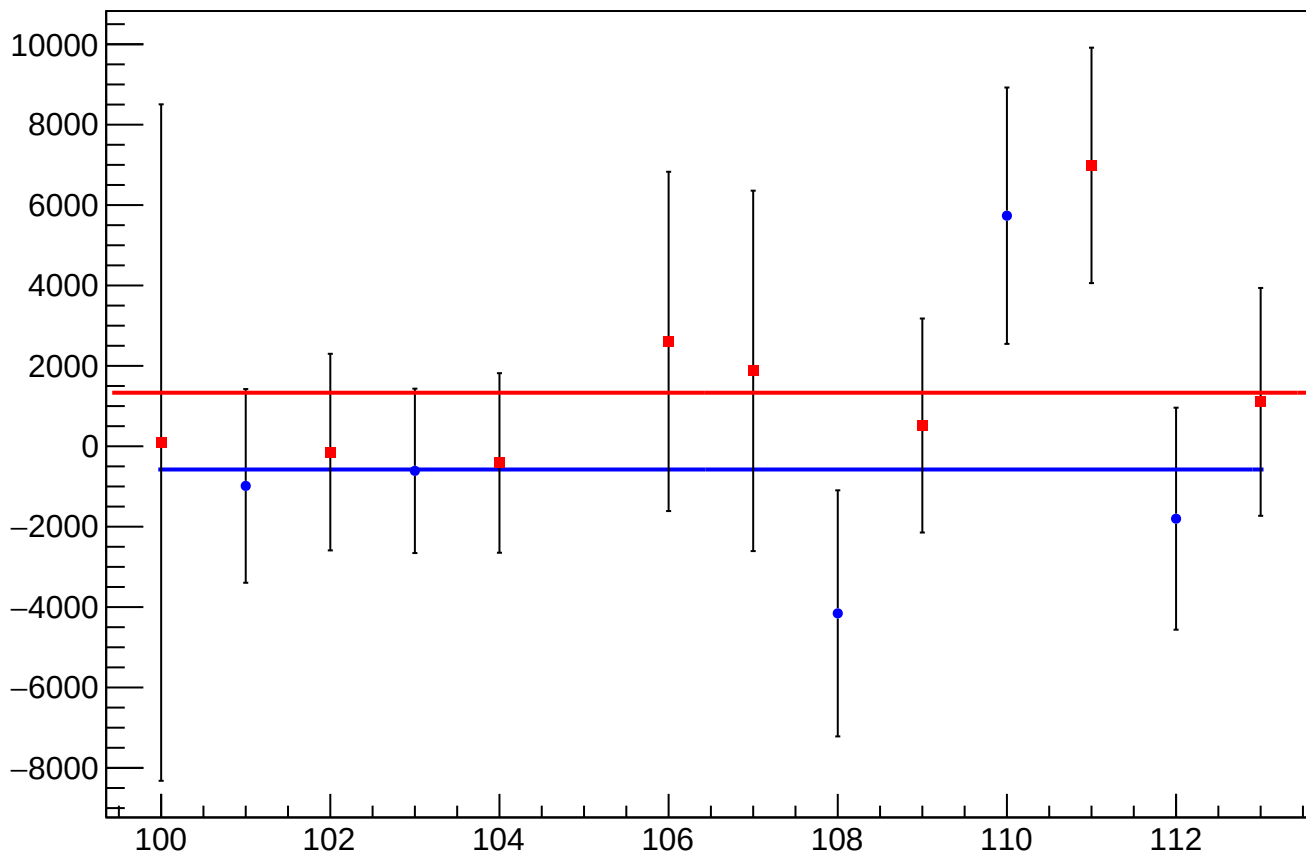
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3630809.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atl\_dd\_mean vs Slug



Right In: -577.550+/-1156.464  $\chi^2/\text{NDF}$ : 5.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1332.116+/-1072.093  $\chi^2/\text{NDF}$ : 4.9/7

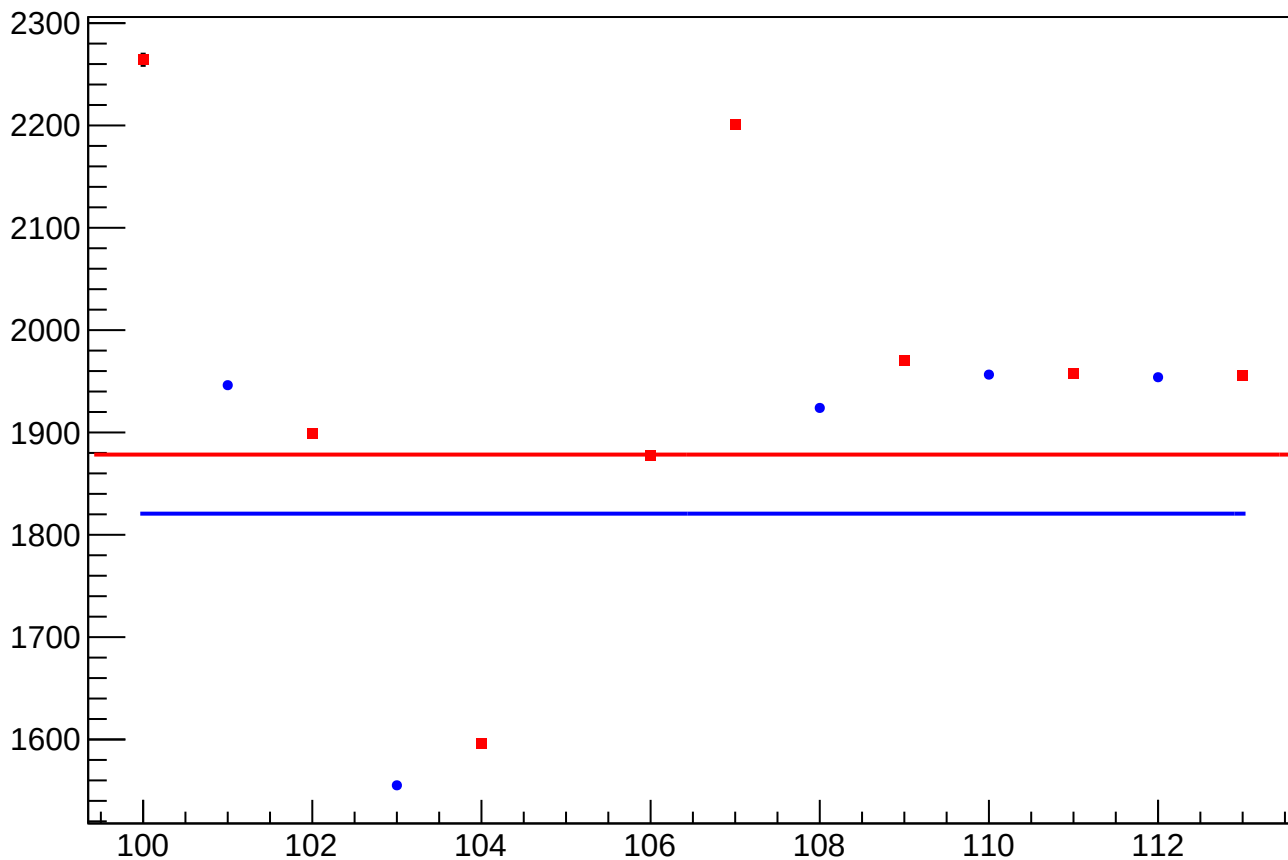
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 449.477+/-786.221  $\chi^2/\text{NDF}$ : 11.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_rms vs Slug



Right In: 1820.664 $\pm$ 0.818  $\chi^2$ /NDF: 49716.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1878.385 $\pm$ 0.748  $\chi^2$ /NDF: 52038.3/7

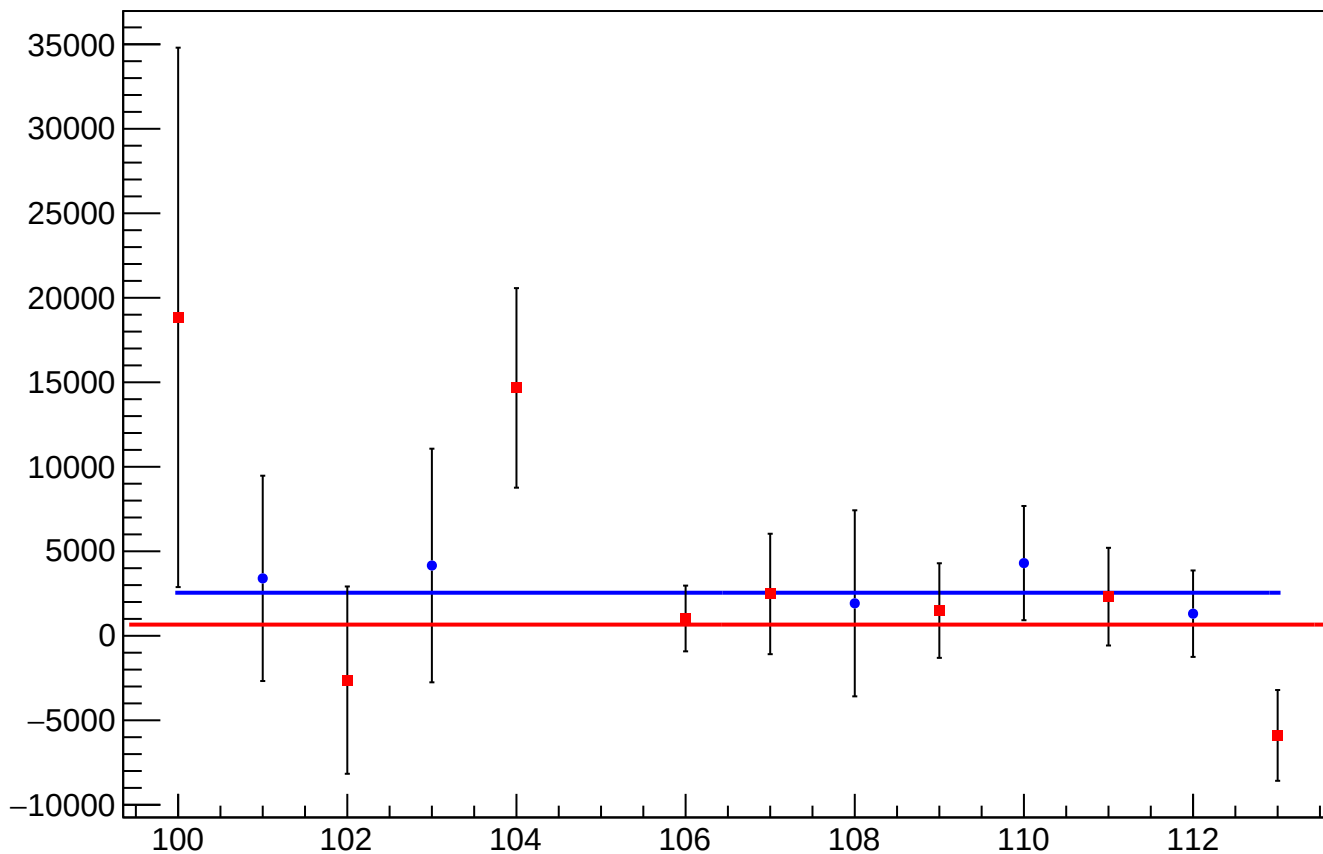
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1852.082 $\pm$ 0.552  $\chi^2$ /NDF: 104466.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_reg\_correction\_mean vs Slug



Right In: 2548.581 $\pm$ 1763.555  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 662.332 $\pm$ 1122.024  $\chi^2$ /NDF: 13.9/7

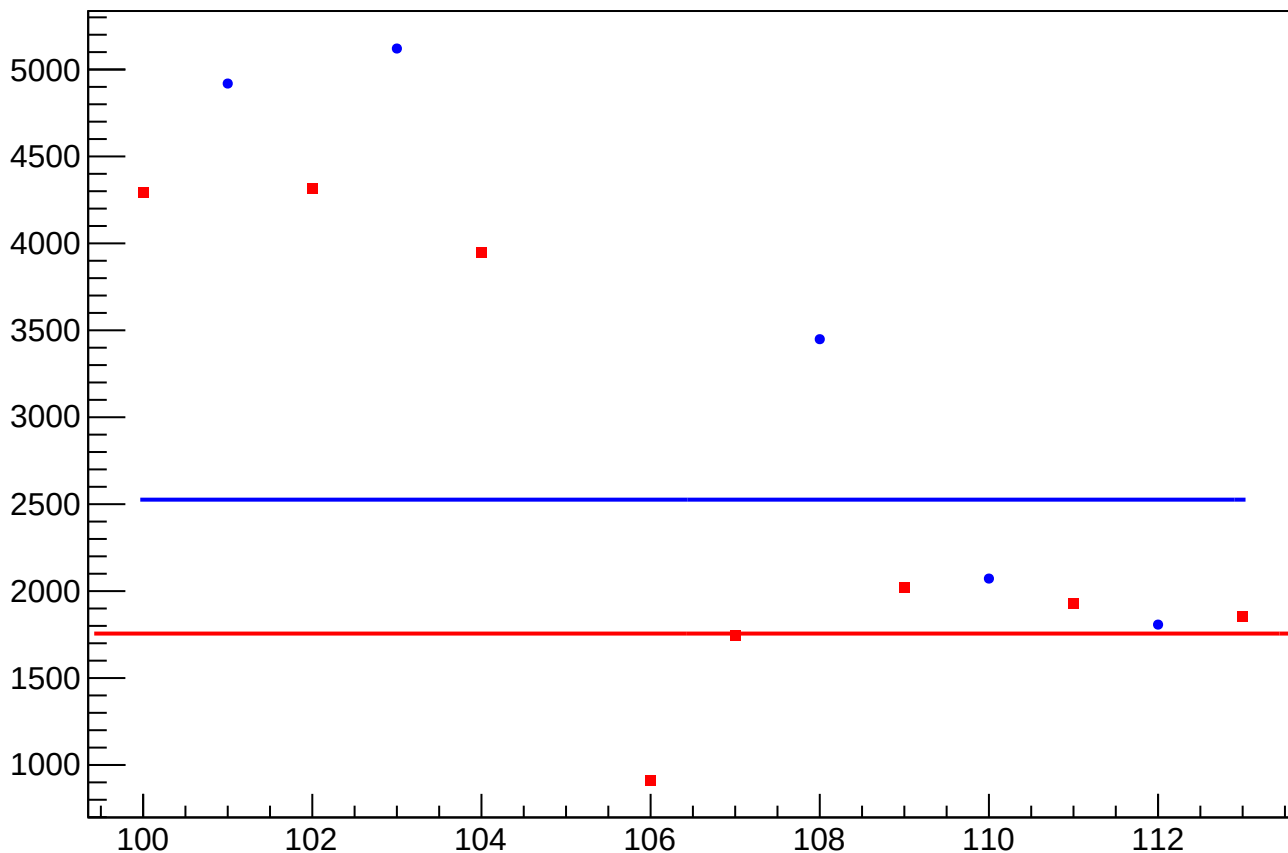
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1205.851 $\pm$ 946.666  $\chi^2$ /NDF: 15.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_reg\_correction\_rms vs Slug



Right In: 2526.011+/-1.247  $\chi^2/\text{NDF}$ : 842526.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

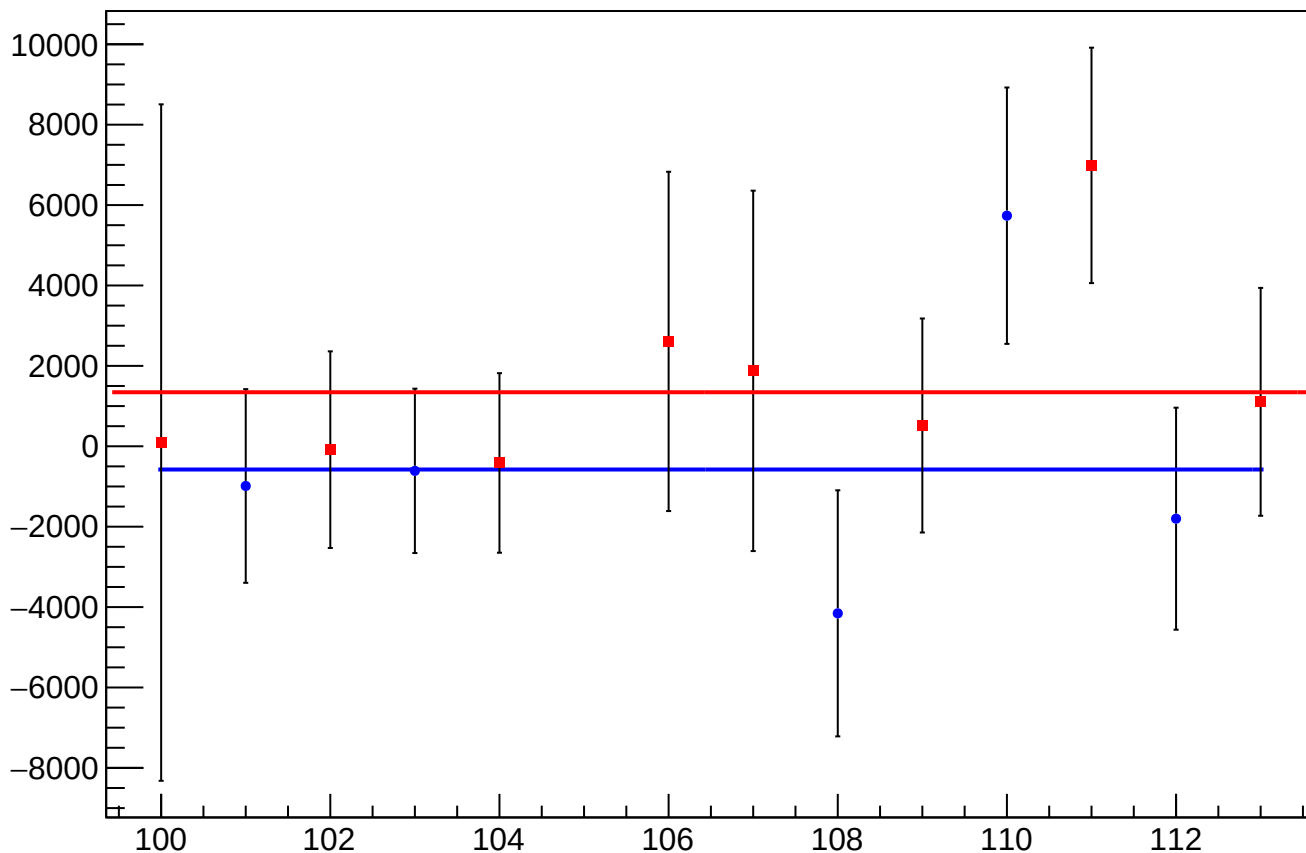
Right Out: 1755.824+/-0.793  $\chi^2/\text{NDF}$ : 1157747.4/7

All: 1977.752+/-0.669  $\chi^2/\text{NDF}$ : 2271813.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_dd\_mean vs Slug



Right In: -577.773+/-1156.464  $\chi^2/\text{NDF}$ : 5.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1344.306+/-1072.122  $\chi^2/\text{NDF}$ : 4.9/7

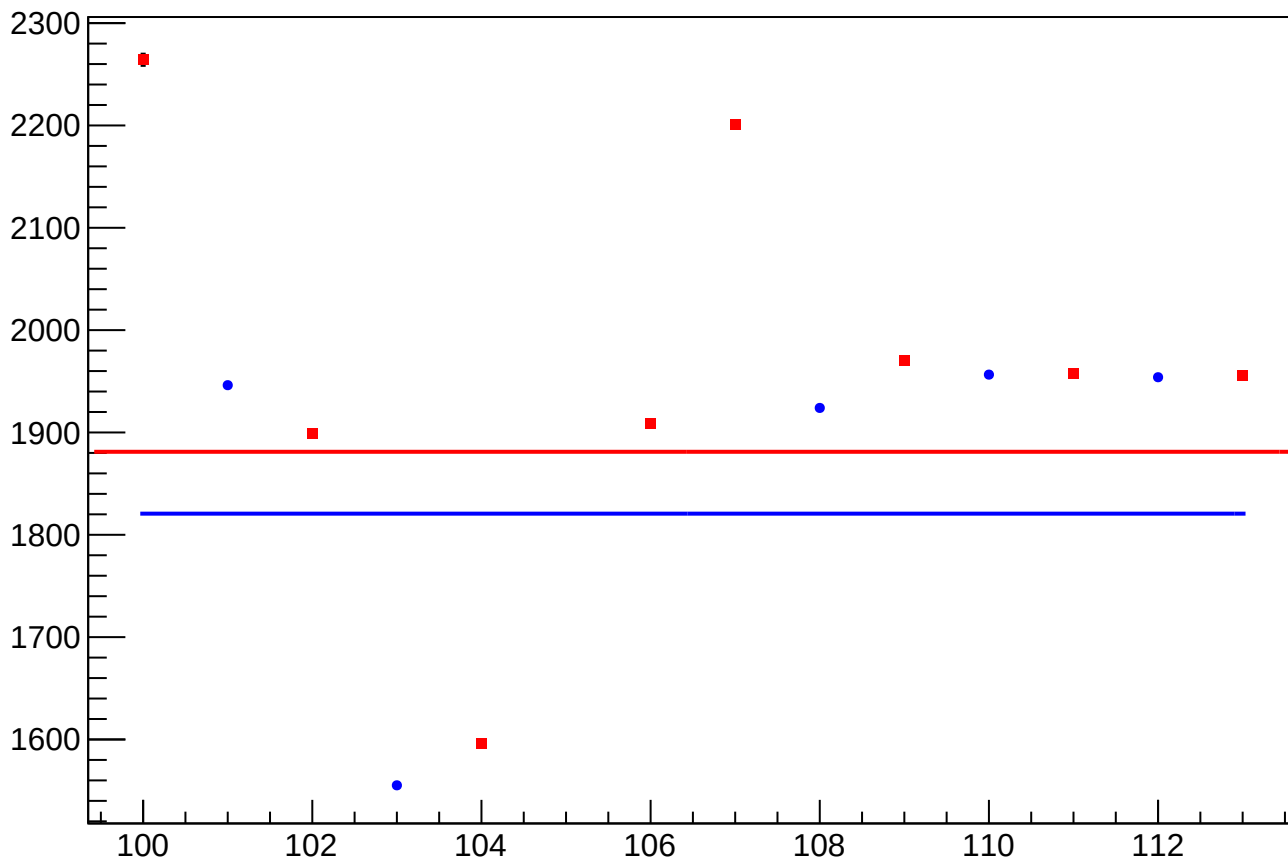
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 455.904+/-786.233  $\chi^2/\text{NDF}$ : 11.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_dd\_rms vs Slug



Right In: 1820.664 $\pm$ 0.818  $\chi^2$ /NDF: 49716.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1881.118 $\pm$ 0.749  $\chi^2$ /NDF: 52168.2/7

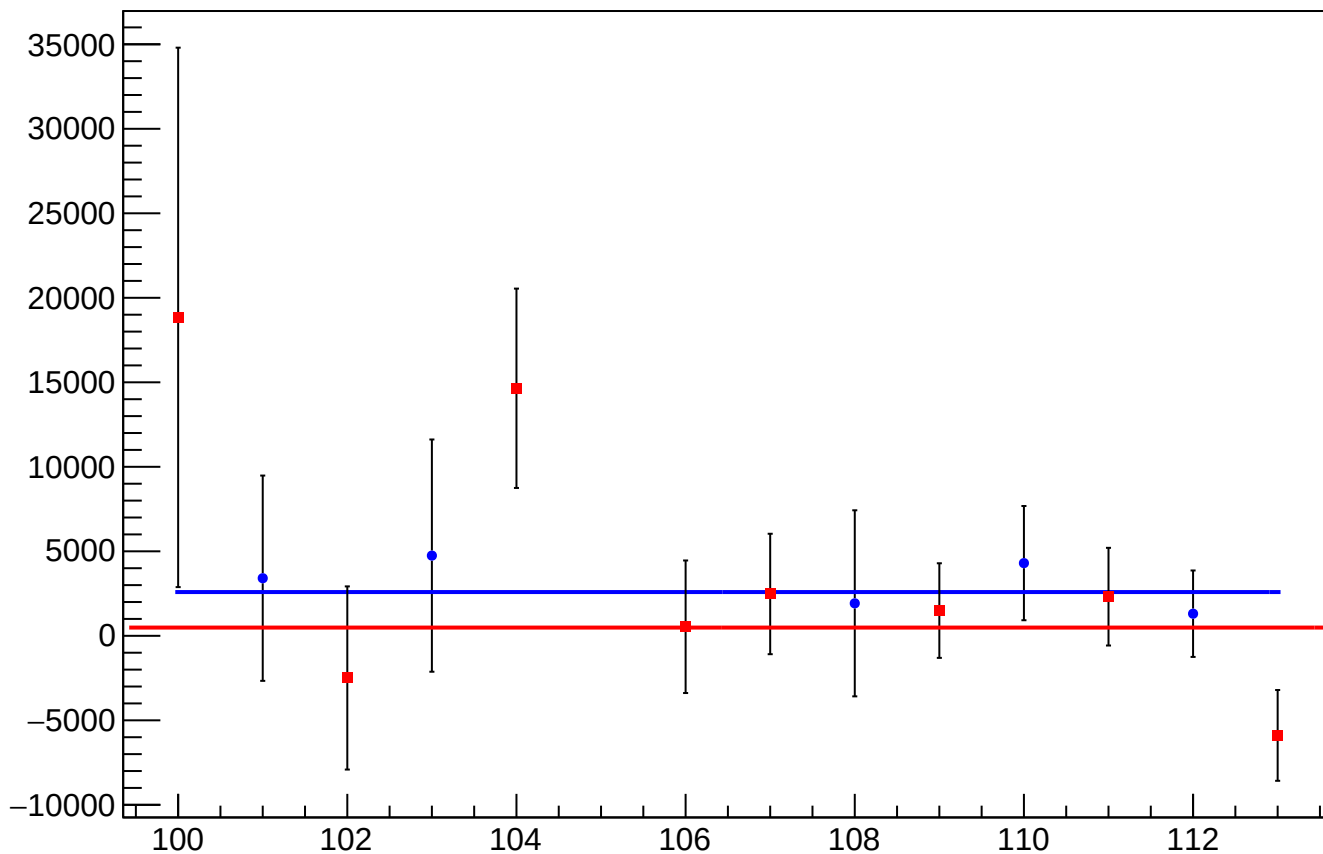
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1853.529 $\pm$ 0.552  $\chi^2$ /NDF: 104855.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_cor\_correction\_mean vs Slug



Right In: 2589.397 $\pm$ 1762.831  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 488.029 $\pm$ 1294.709  $\chi^2$ /NDF: 13.9/7

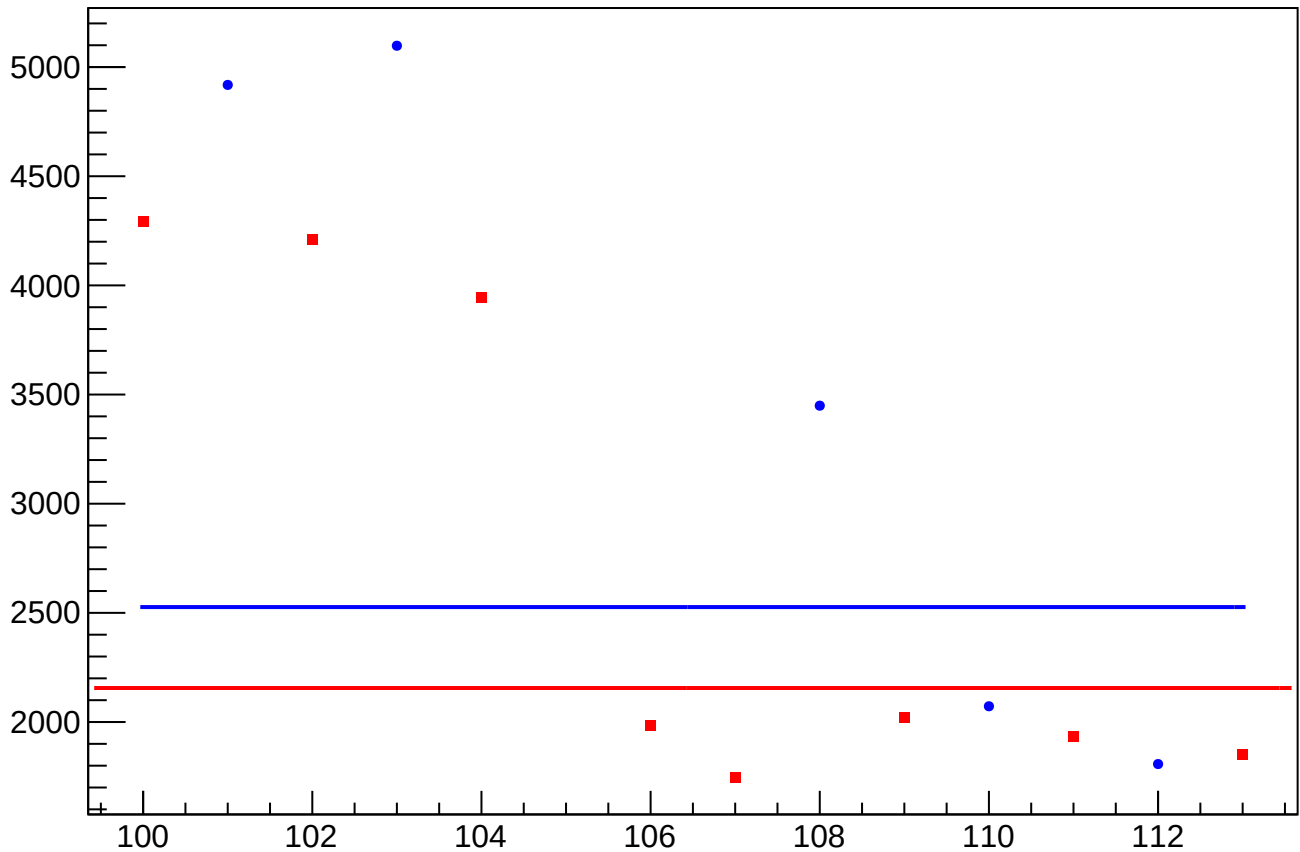
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1224.354 $\pm$ 1043.504  $\chi^2$ /NDF: 15.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_cor\_correction\_rms vs Slug



Right In: 2526.505 $\pm$ 1.247  $\chi^2$ /NDF: 840762.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2155.767 $\pm$ 0.915  $\chi^2$ /NDF: 579092.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

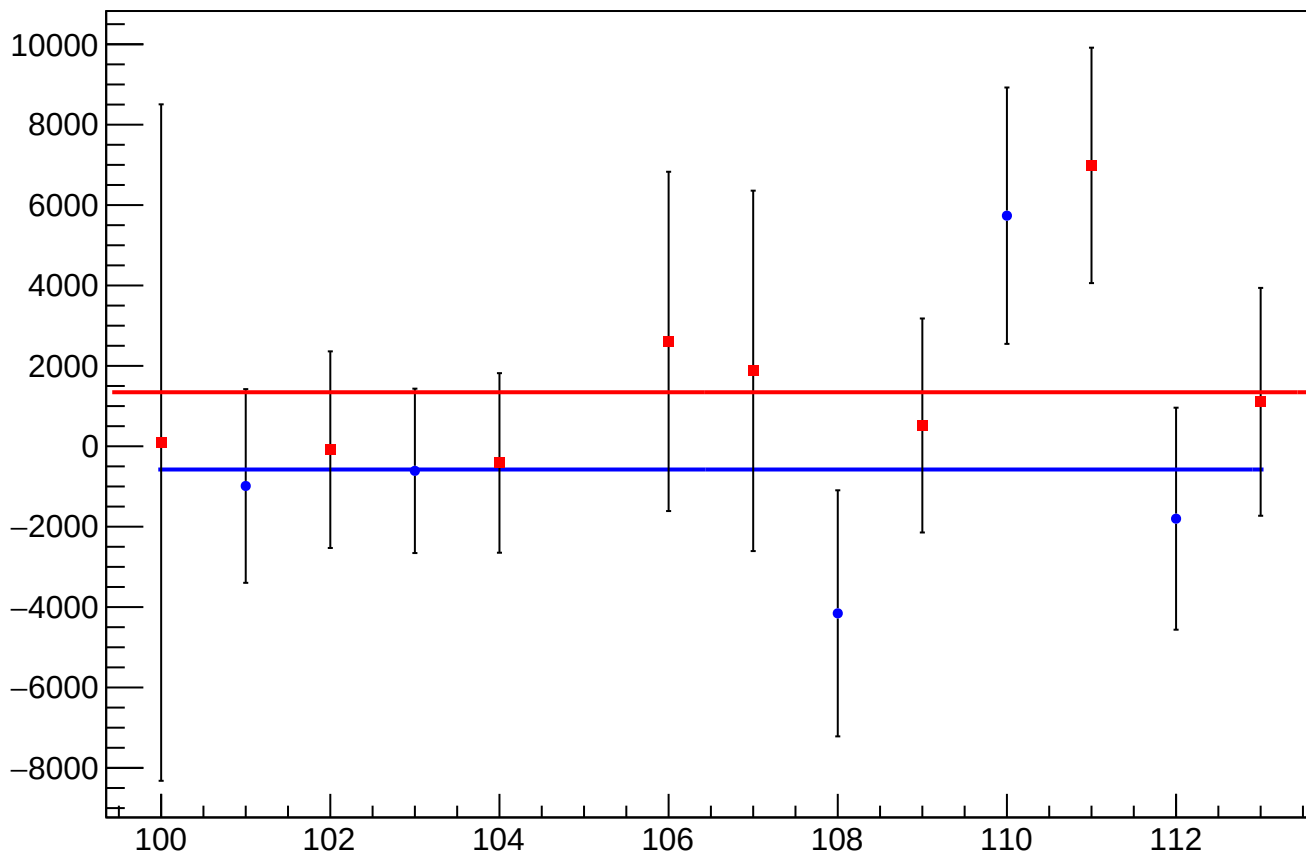
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2285.674 $\pm$ 0.738  $\chi^2$ /NDF: 1477317.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_cor\_asym\_atl\_dd\_mean vs Slug



Right In: -577.773+/-1156.464  $\chi^2/\text{NDF}$ : 5.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1344.306+/-1072.122  $\chi^2/\text{NDF}$ : 4.9/7

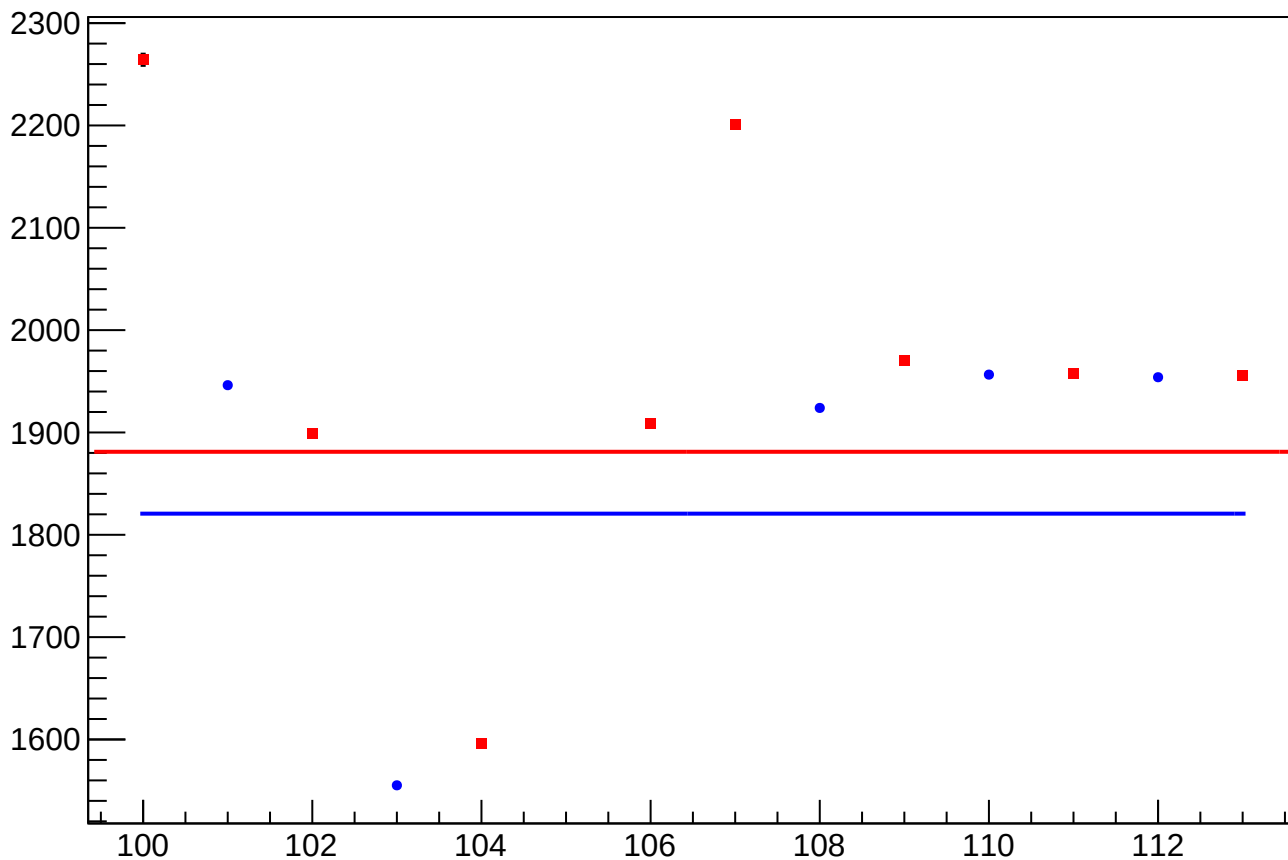
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 455.904+/-786.233  $\chi^2/\text{NDF}$ : 11.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl\_dd\_rms vs Slug



Right In: 1820.664 $\pm$ 0.818  $\chi^2$ /NDF: 49716.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1881.118 $\pm$ 0.749  $\chi^2$ /NDF: 52168.2/7

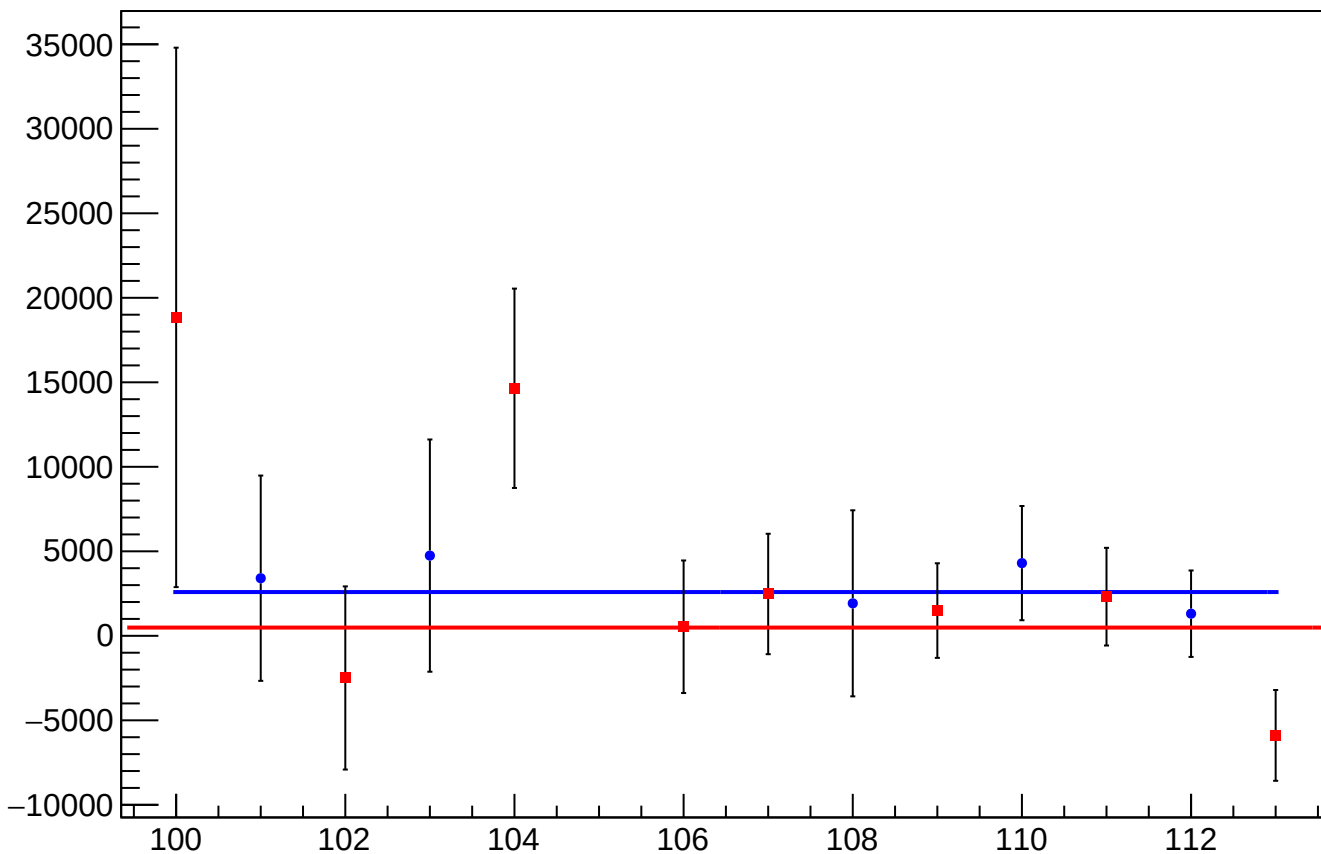
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1853.529 $\pm$ 0.552  $\chi^2$ /NDF: 104855.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 2589.397 $\pm$ 1762.831  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 488.029 $\pm$ 1294.709  $\chi^2$ /NDF: 13.9/7

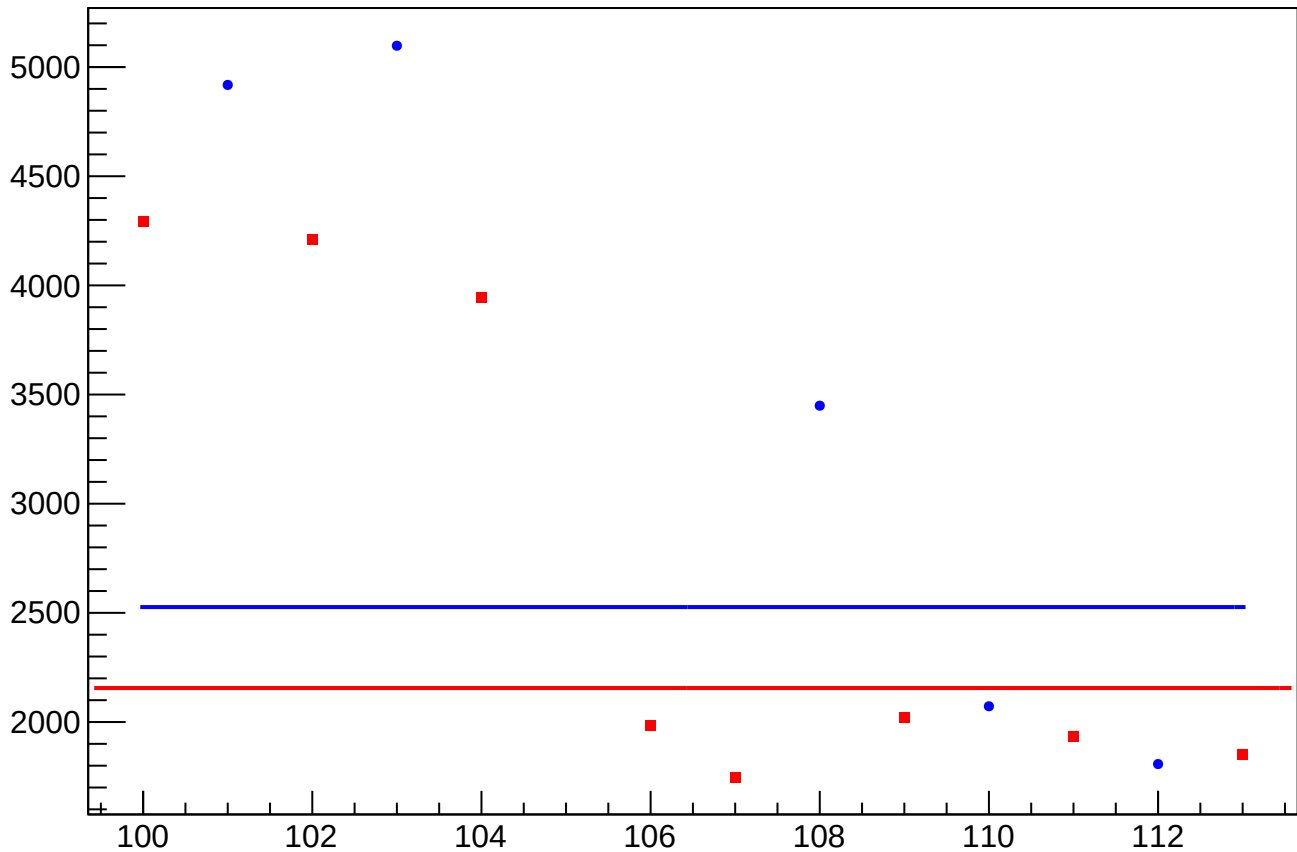
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1224.354 $\pm$ 1043.504  $\chi^2$ /NDF: 15.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 2526.505+/-1.247  $\chi^2/\text{NDF}$ : 840762.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2155.767+/-0.915  $\chi^2/\text{NDF}$ : 579092.4/7

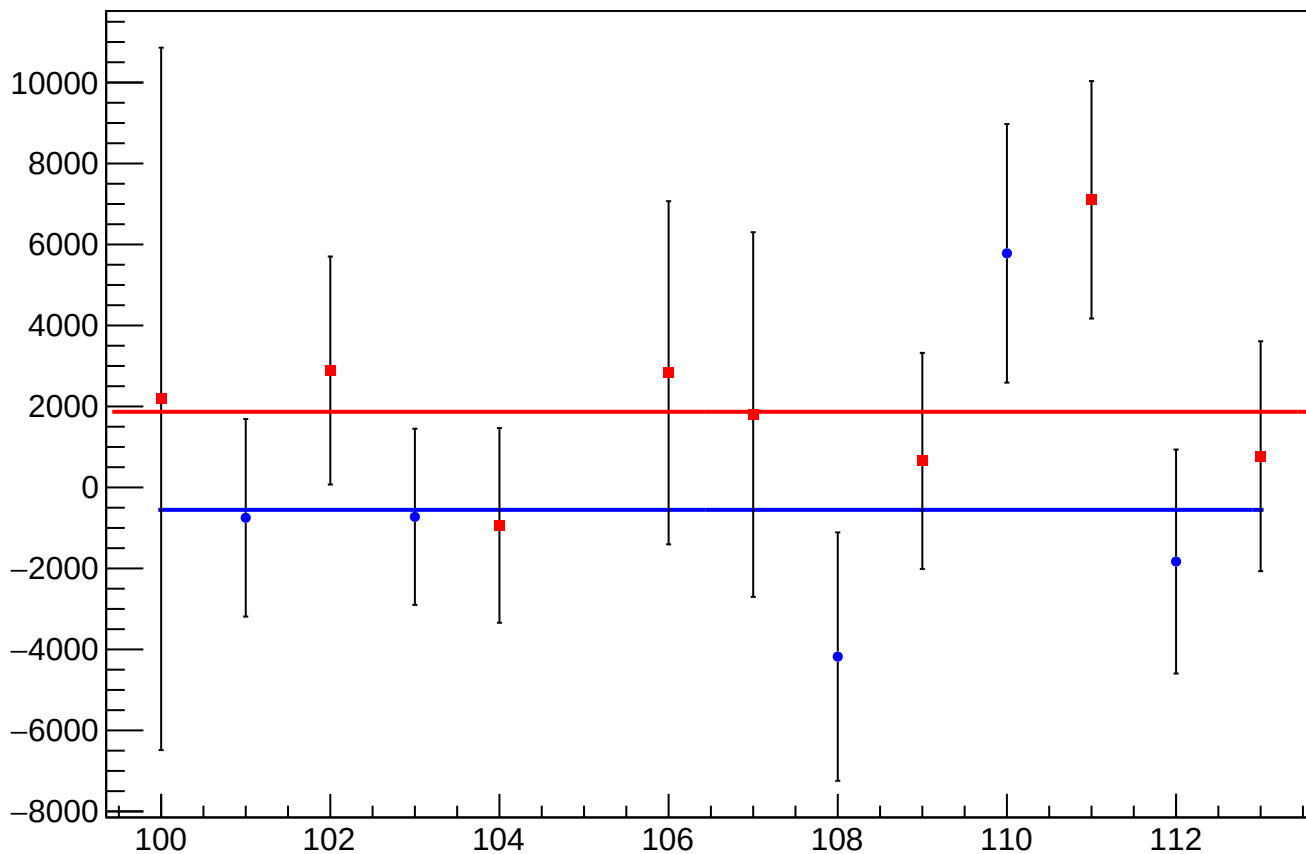
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2285.674+/-0.738  $\chi^2/\text{NDF}$ : 1477317.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl\_dd\_mean vs Slug



Right In: -553.093+/-1183.074  $\chi^2/\text{NDF}$ : 5.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1868.383+/-1119.151  $\chi^2/\text{NDF}$ : 5.1/7

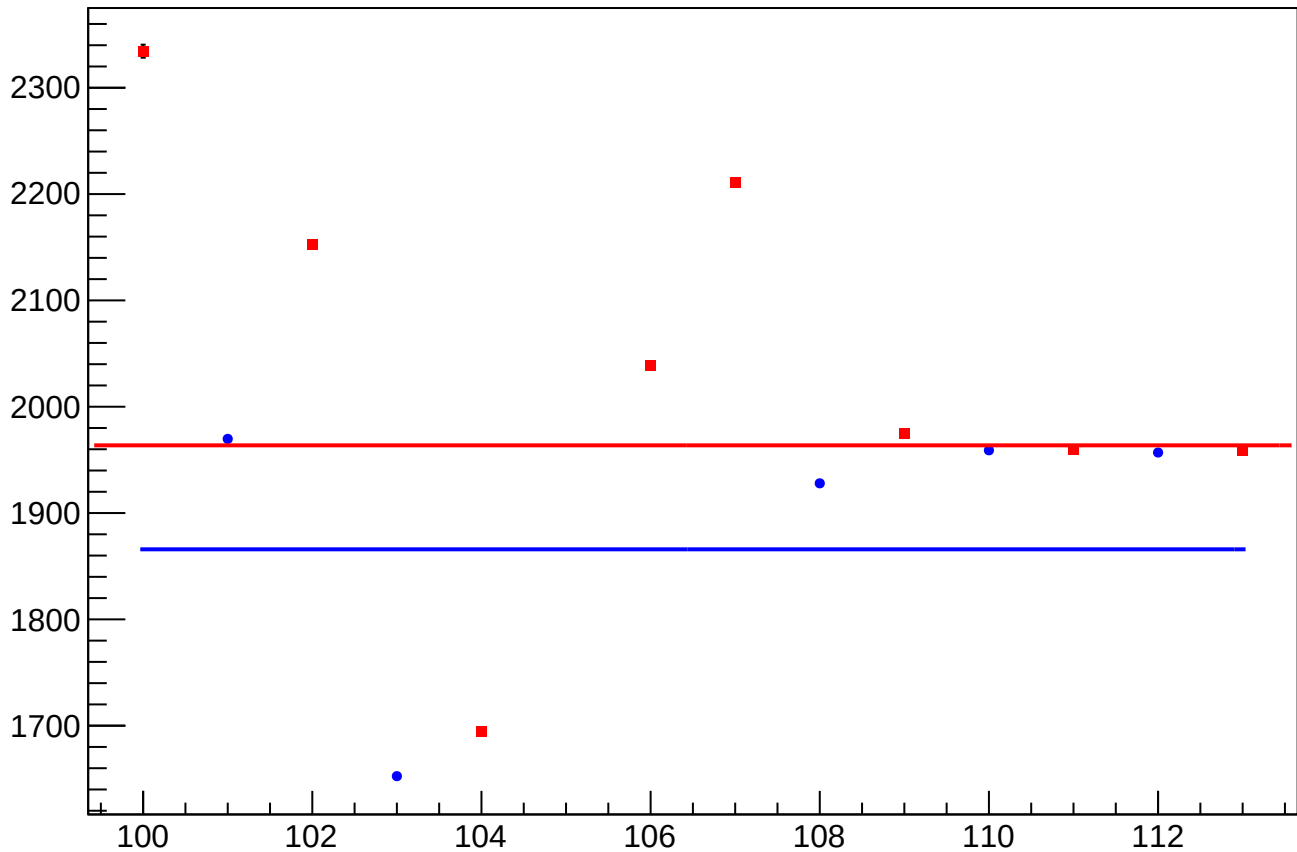
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 724.826+/-813.019  $\chi^2/\text{NDF}$ : 12.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl\_dd\_rms vs Slug



Right In: 1865.874 $\pm$ 0.837  $\chi^2$ /NDF: 27551.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1963.682 $\pm$ 0.786  $\chi^2$ /NDF: 44441.3/7

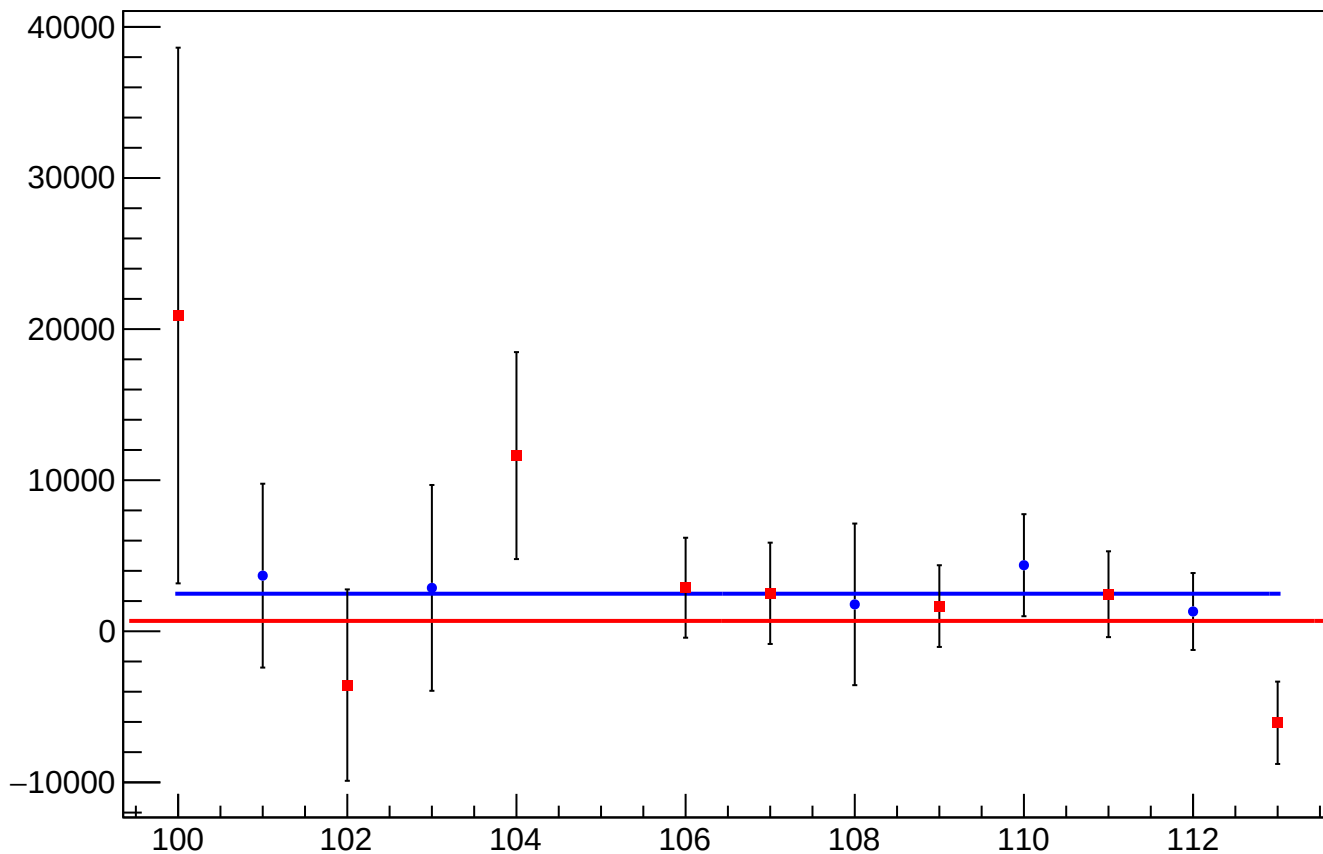
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1917.830 $\pm$ 0.573  $\chi^2$ /NDF: 79254.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_dit\_correction\_mean vs Slug



Right In: 2486.080+/-1752.877  $\chi^2/\text{NDF}$ : 0.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 686.367+/-1264.725  $\chi^2/\text{NDF}$ : 11.7/7

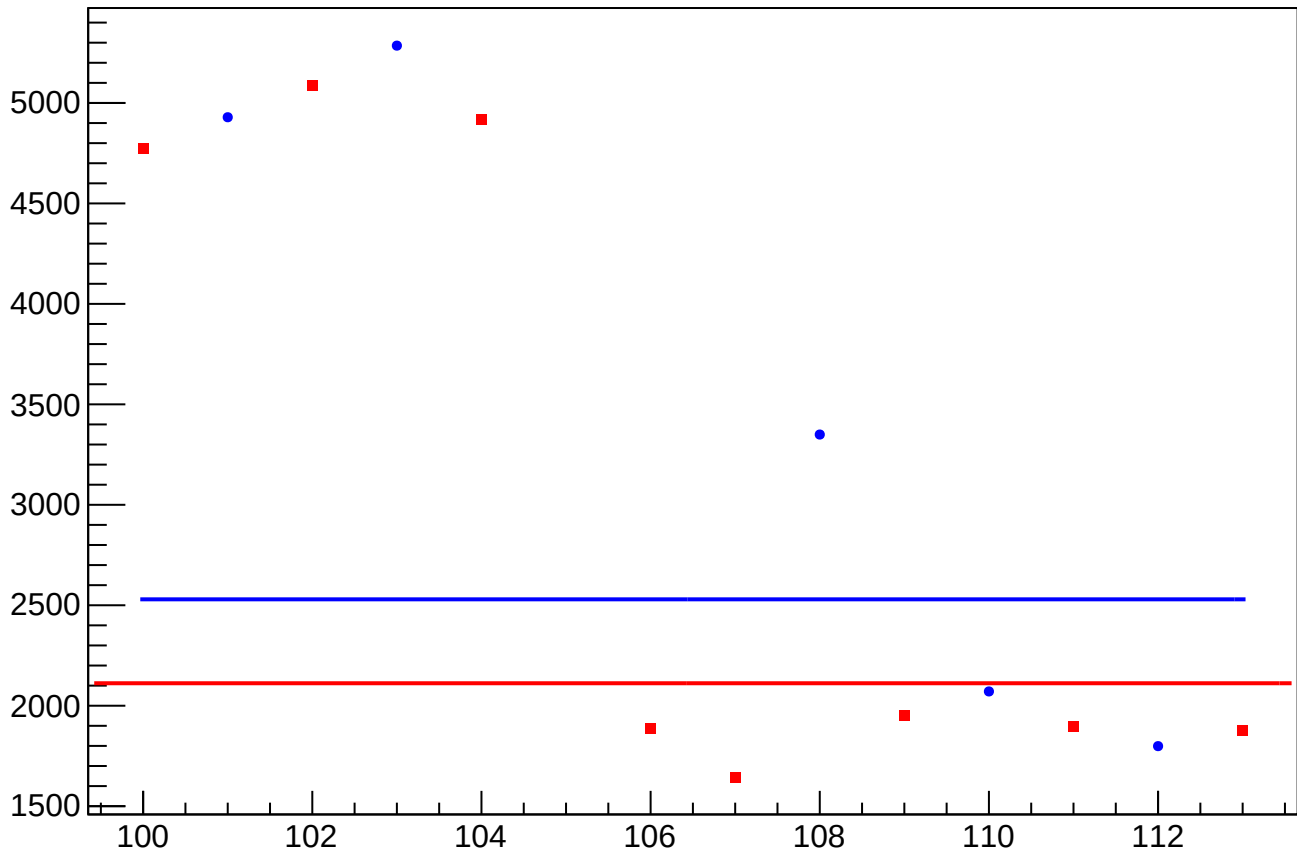
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1302.511+/-1025.631  $\chi^2/\text{NDF}$ : 13.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_dit\_correction\_rms vs Slug



Right In: 2529.516+/-1.239  $\chi^2/\text{NDF}$ : 887031.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2111.865+/-0.894  $\chi^2/\text{NDF}$ : 903572.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

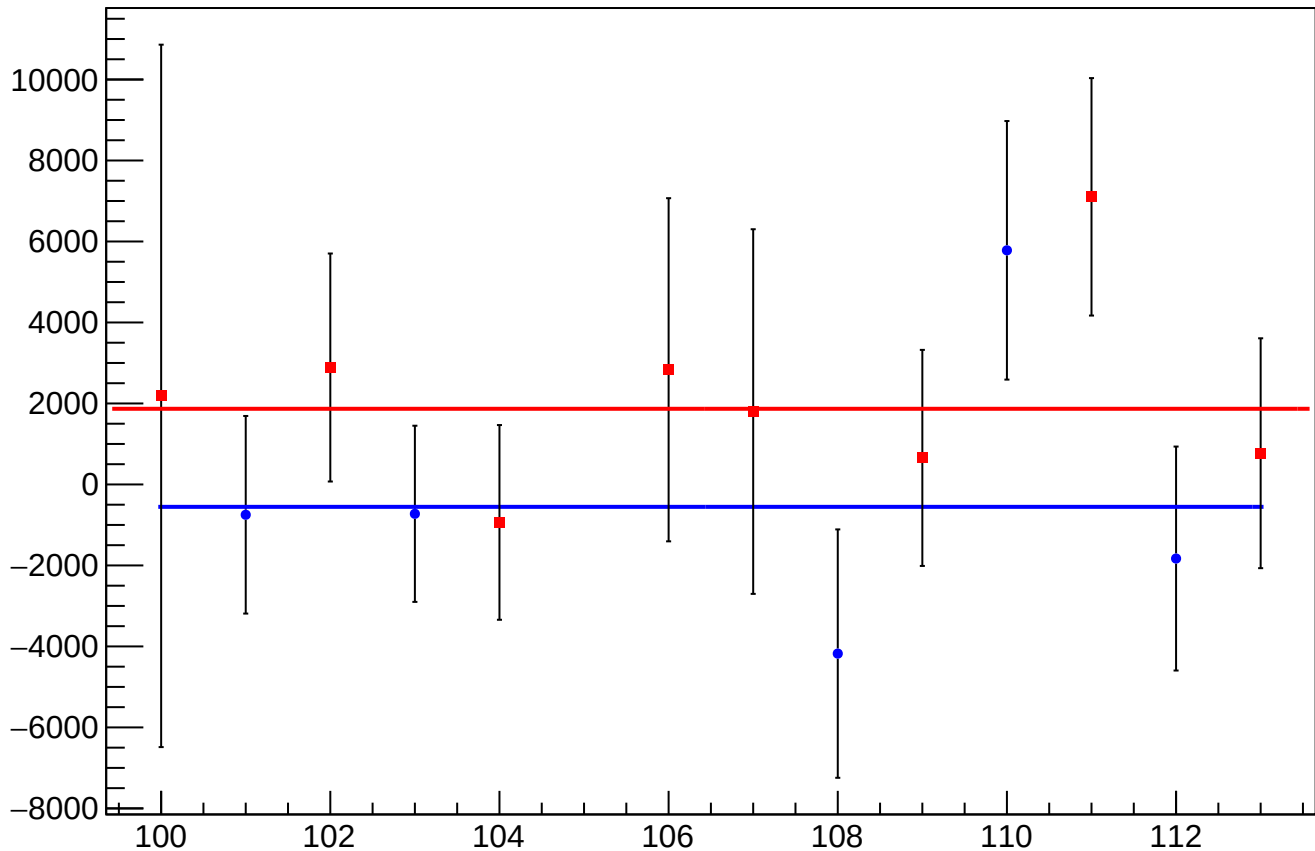
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2254.851+/-0.725  $\chi^2/\text{NDF}$ : 1865273.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_atl\_dd\_mean vs Slug



Right In: -553.103+/-1183.073  $\chi^2/\text{NDF}$ : 5.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1868.392+/-1119.151  $\chi^2/\text{NDF}$ : 5.1/7

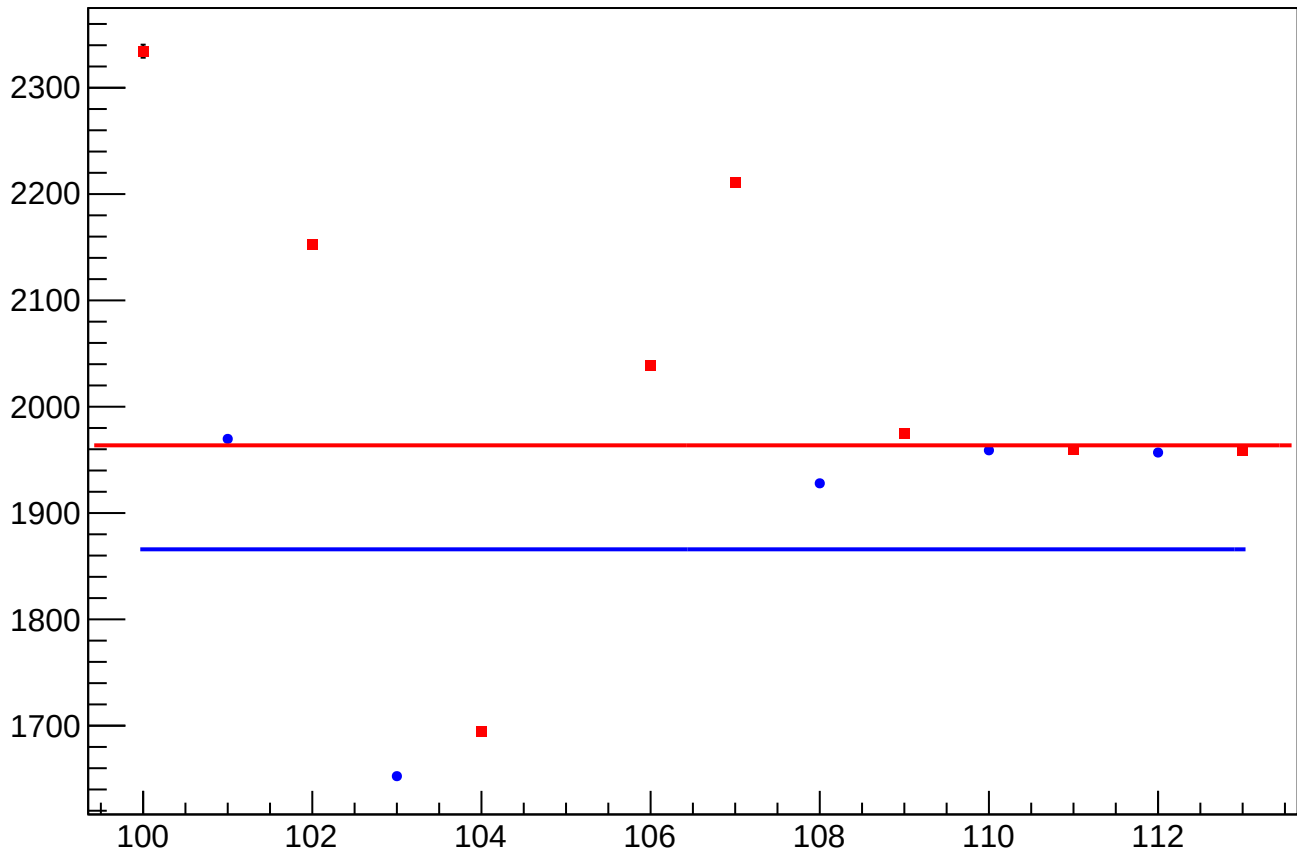
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 724.827+/-813.018  $\chi^2/\text{NDF}$ : 12.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl\_dd\_rms vs Slug



Right In: 1865.873+/-0.837  $\chi^2/\text{NDF}$ : 27552.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1963.681+/-0.786  $\chi^2/\text{NDF}$ : 44441.3/7

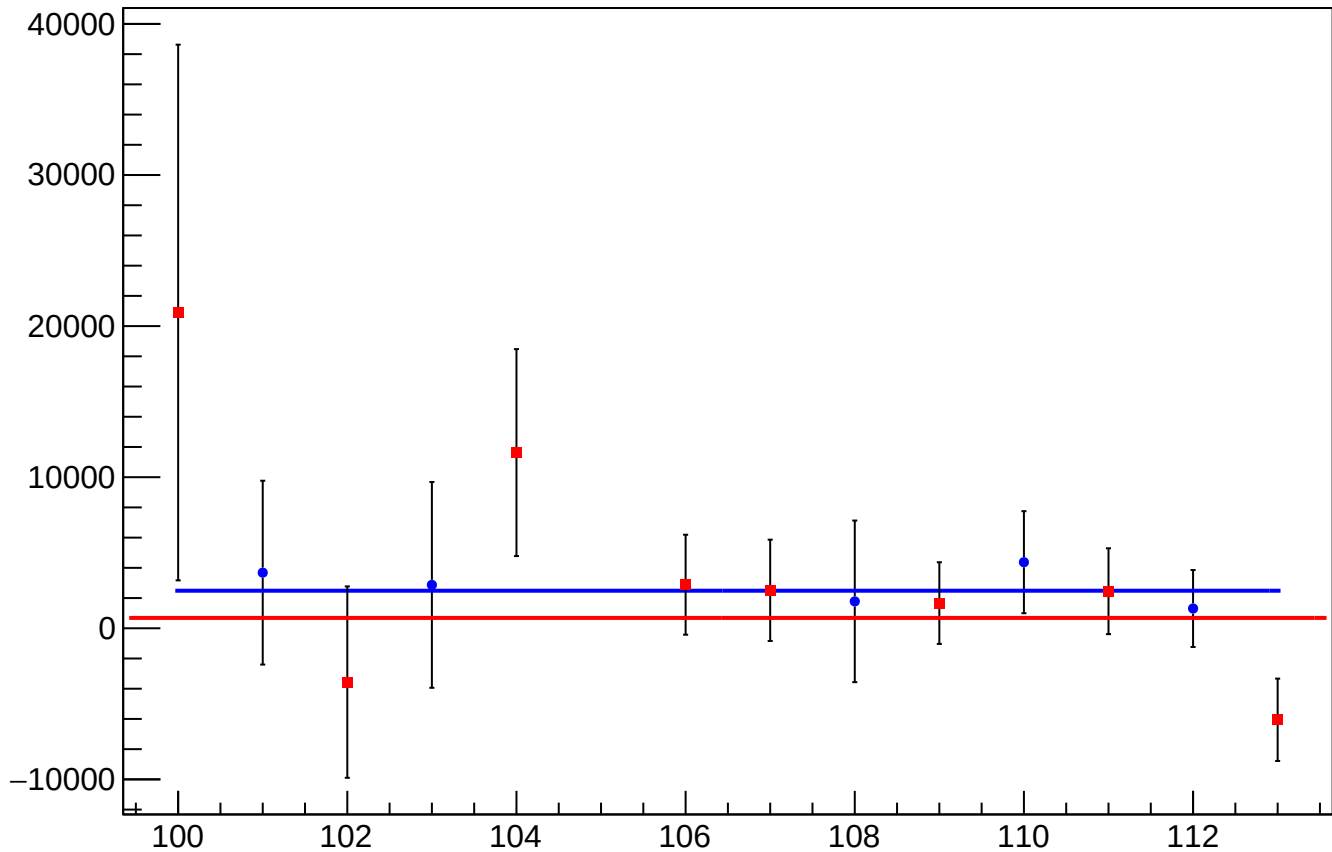
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1917.829+/-0.573  $\chi^2/\text{NDF}$ : 79254.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 2486.066+/-1752.870  $\chi^2/\text{NDF}$ : 0.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 686.366+/-1264.721  $\chi^2/\text{NDF}$ : 11.7/7

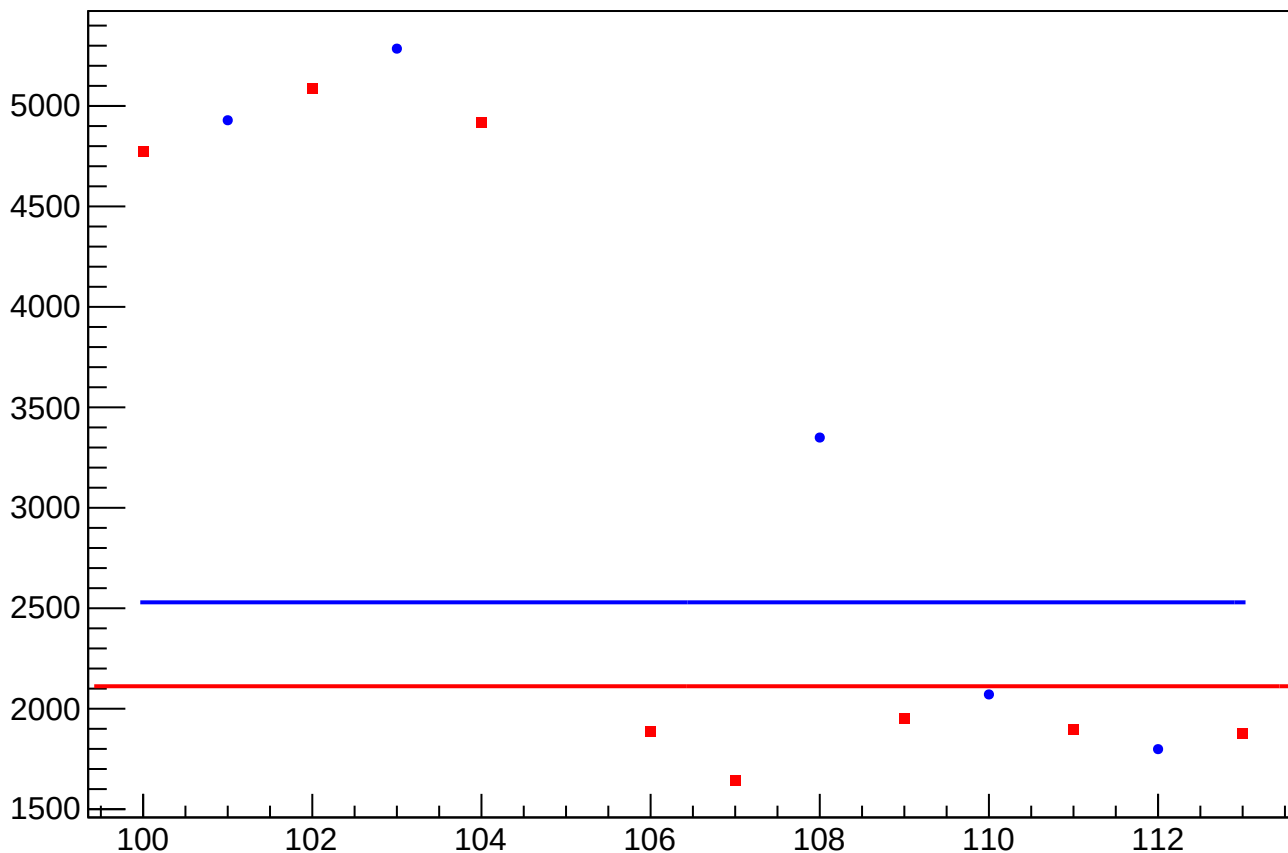
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1302.507+/-1025.628  $\chi^2/\text{NDF}$ : 13.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 2529.504+/-1.239  $\chi^2/\text{NDF}$ : 887037.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2111.858+/-0.894  $\chi^2/\text{NDF}$ : 903577.2/7

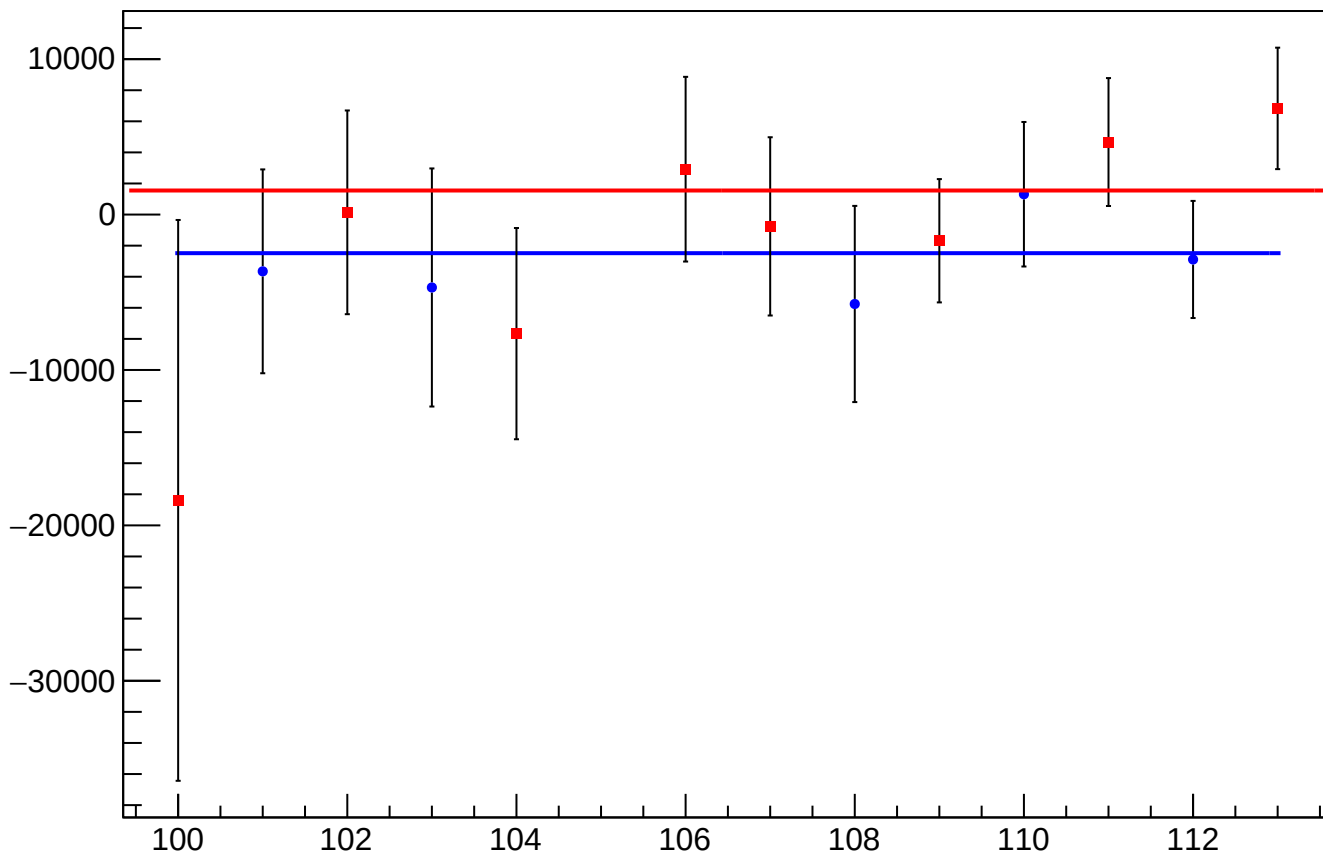
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2254.843+/-0.725  $\chi^2/\text{NDF}$ : 1865282.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_mean vs Slug



Right In: -2484.213+/-2343.504  $\chi^2/\text{NDF}$ : 1.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1548.131+/-1841.819  $\chi^2/\text{NDF}$ : 6.4/7

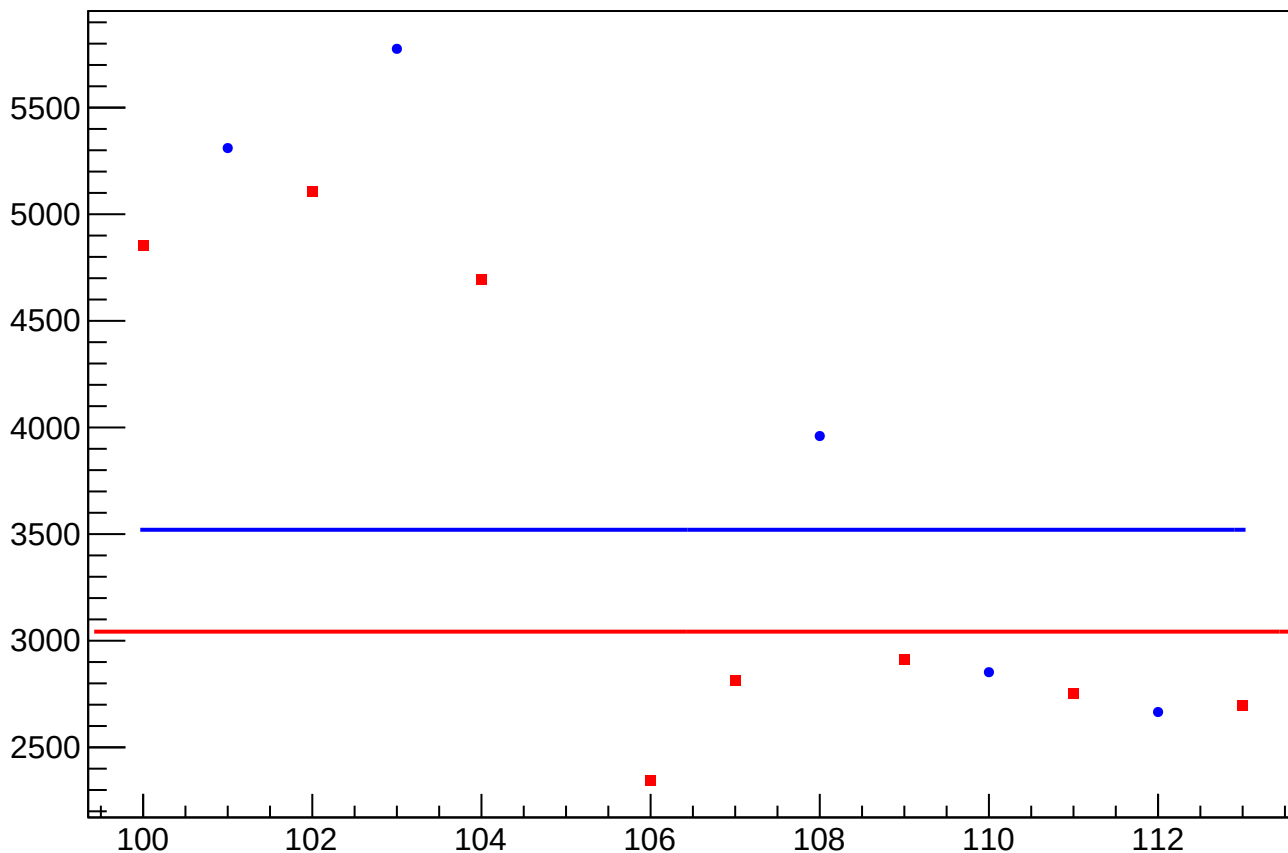
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8.461+/-1448.107  $\chi^2/\text{NDF}$ : 9.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_rms vs Slug



Right In: 3520.320+/-1.657  $\chi^2/\text{NDF}$ : 476265.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3042.622+/-1.259  $\chi^2/\text{NDF}$ : 415508.4/7

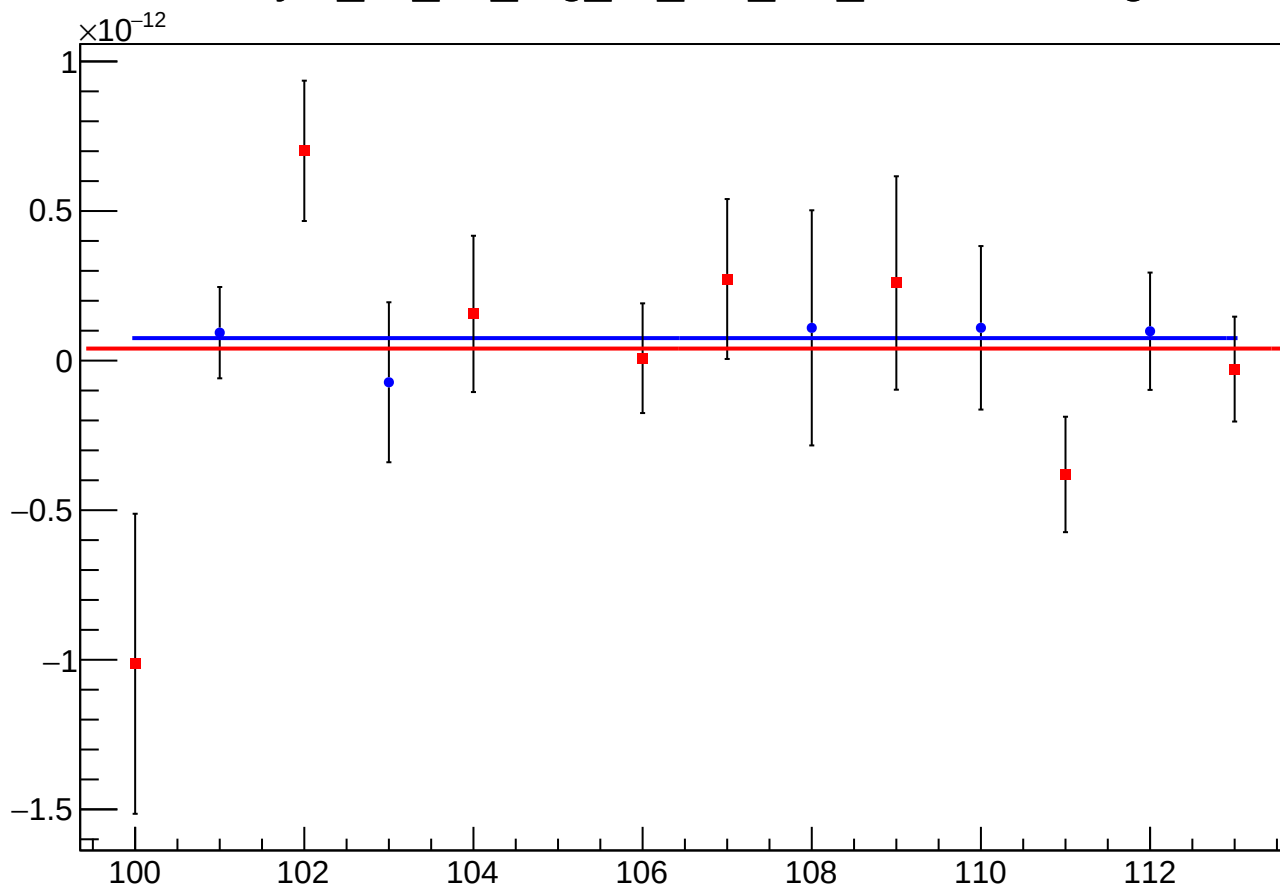
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3217.435+/-1.002  $\chi^2/\text{NDF}$ : 944465.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 18.6/7

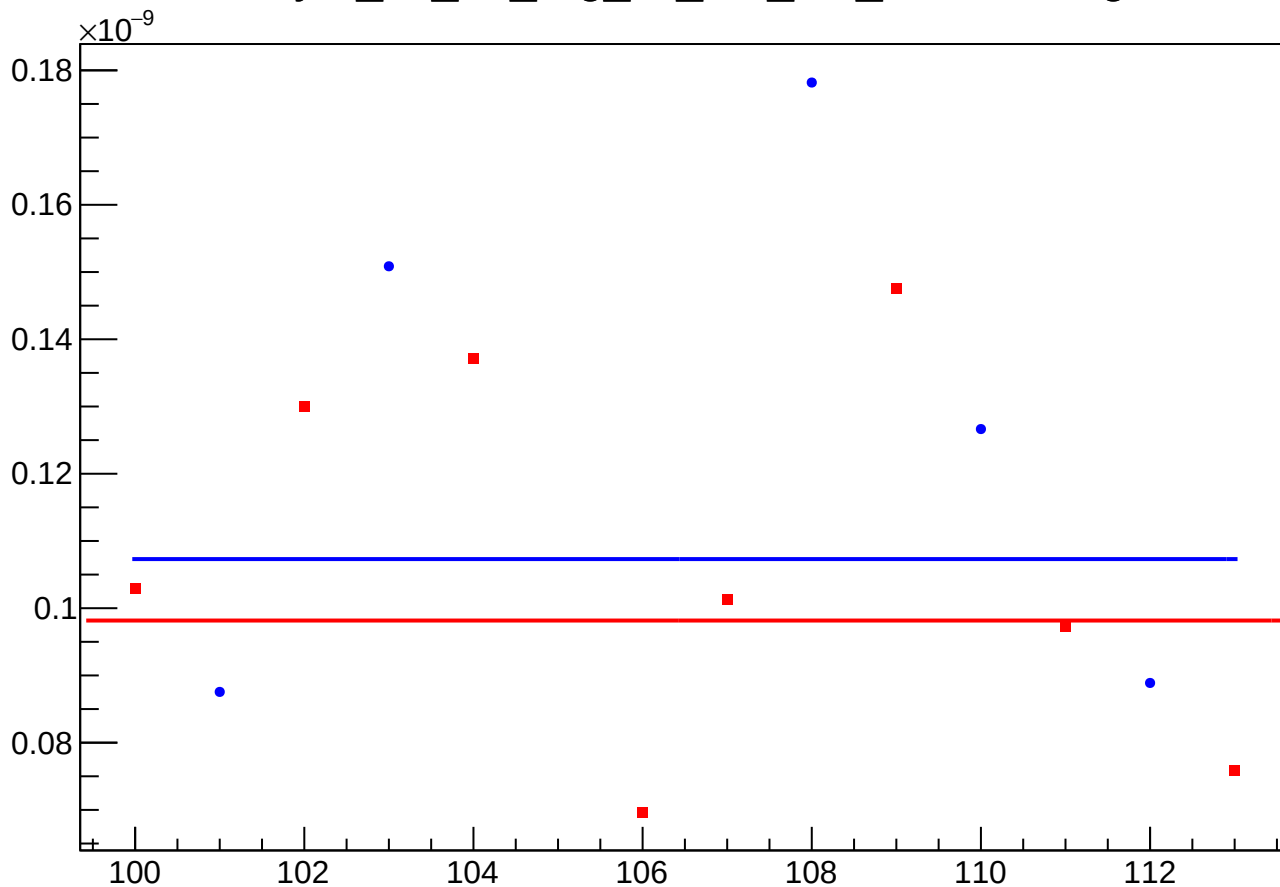
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 179282.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 201562.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

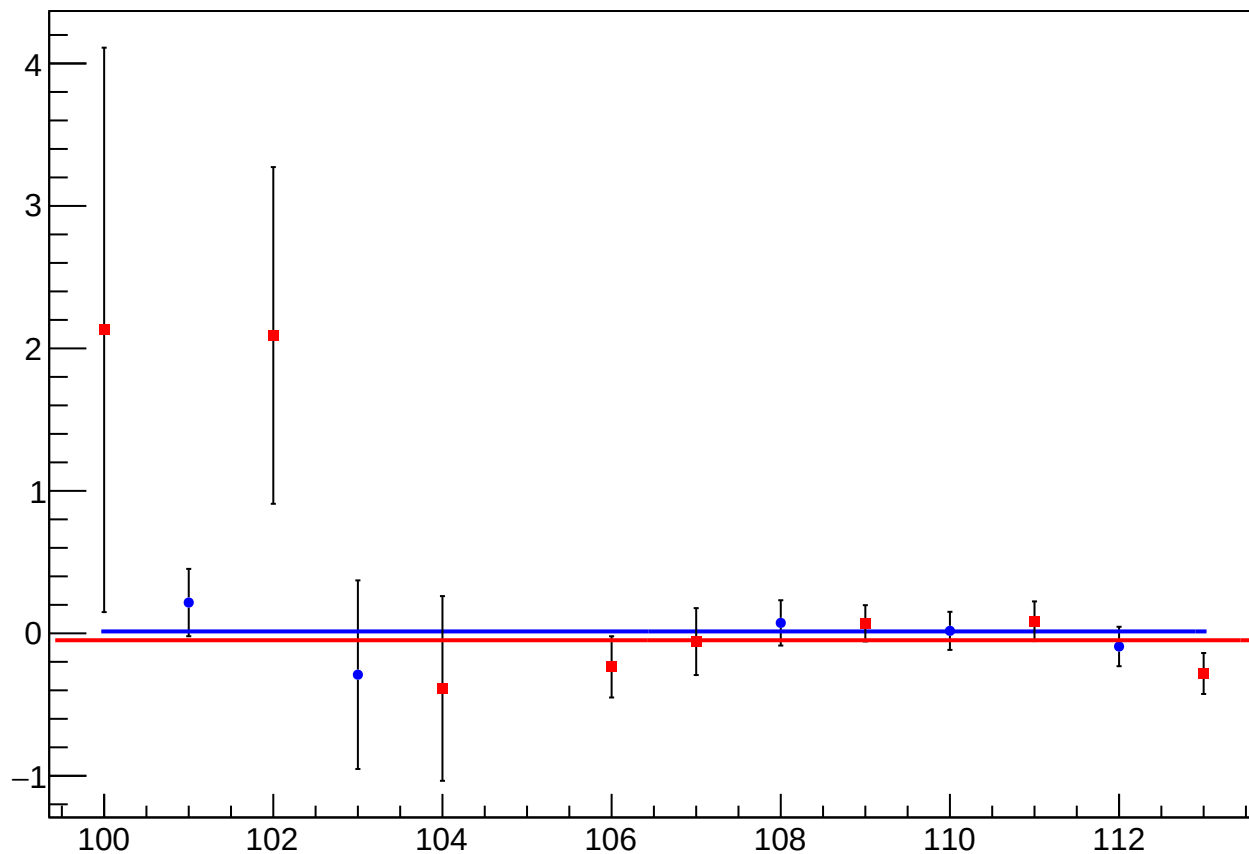
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 390972.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.077  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.048 $\pm$ 0.070  $\chi^2$ /NDF: 9.9/7

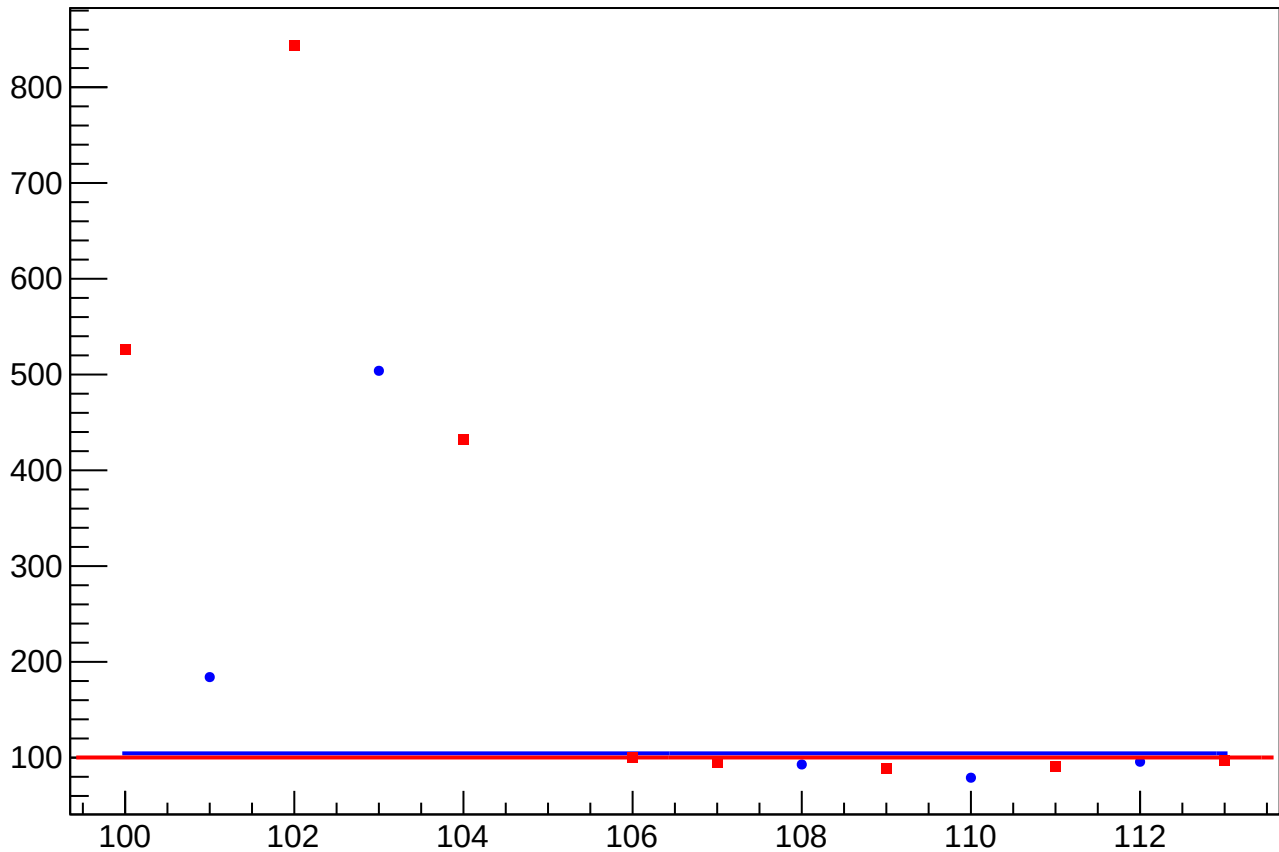
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.021 $\pm$ 0.052  $\chi^2$ /NDF: 12.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 104.461+/-0.055  $\chi^2/\text{NDF}$ : 1046219.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 100.165+/-0.049  $\chi^2/\text{NDF}$ : 1436088.8/7

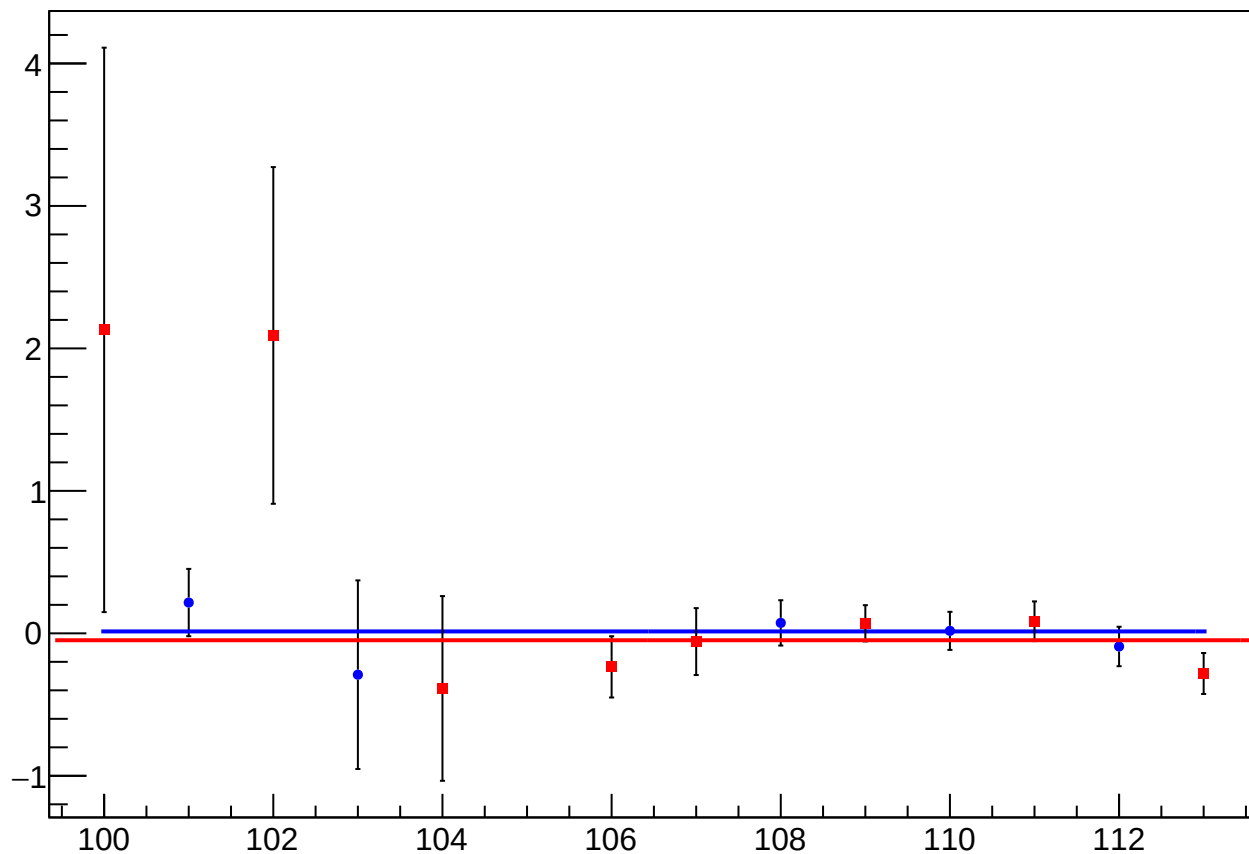
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 102.100+/-0.037  $\chi^2/\text{NDF}$ : 2485715.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.077  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.048 $\pm$ 0.070  $\chi^2$ /NDF: 9.9/7

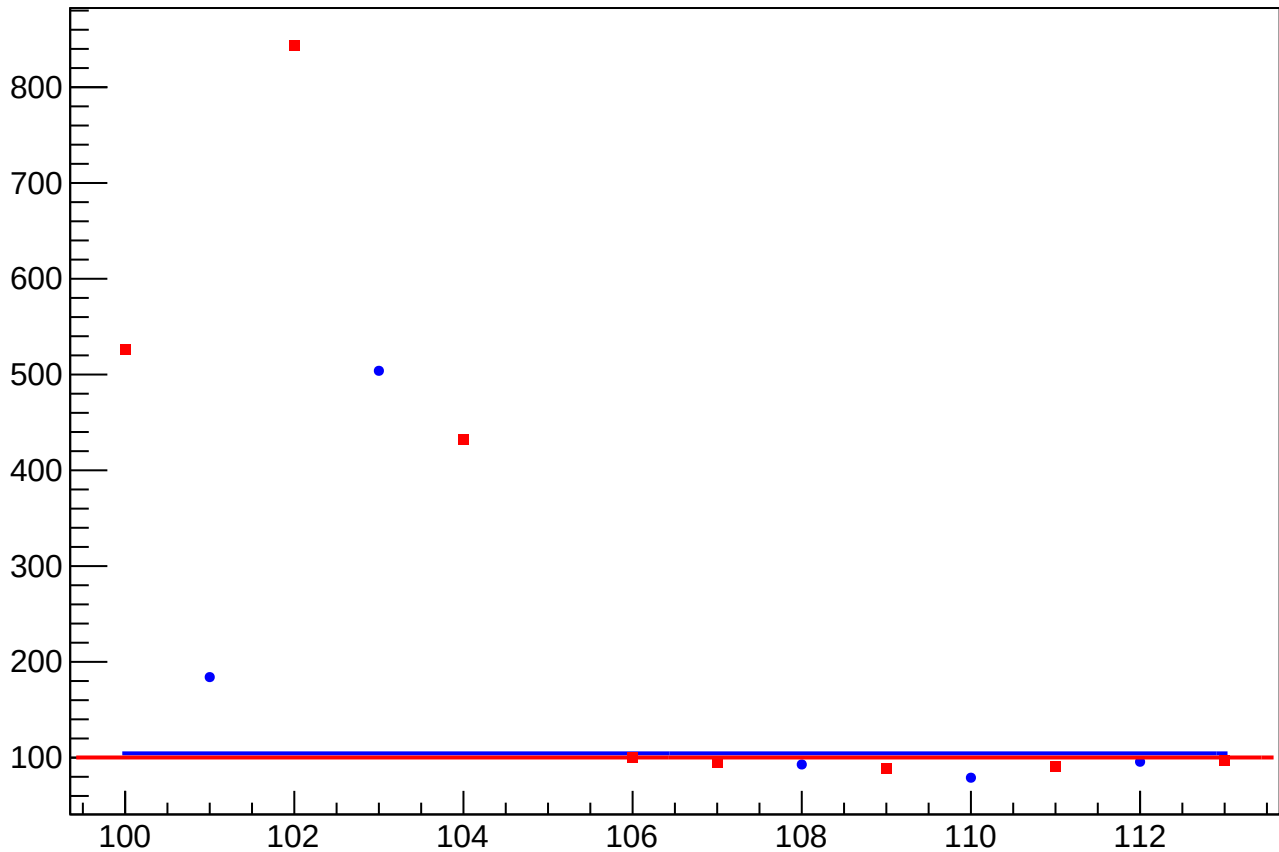
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.021 $\pm$ 0.052  $\chi^2$ /NDF: 12.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 104.461+/-0.055  $\chi^2/\text{NDF}$ : 1046219.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 100.165+/-0.049  $\chi^2/\text{NDF}$ : 1436088.8/7

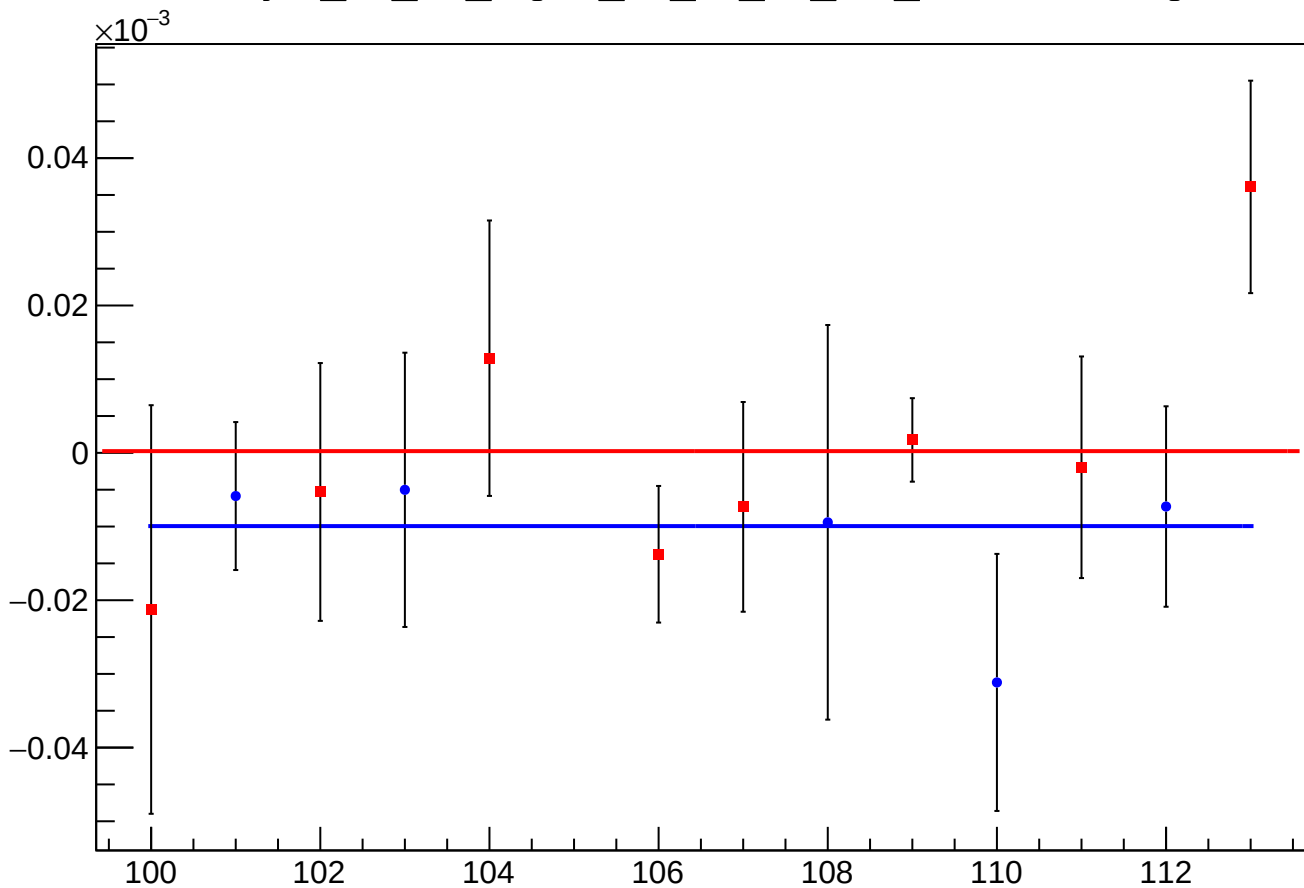
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 102.100+/-0.037  $\chi^2/\text{NDF}$ : 2485715.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.0/7

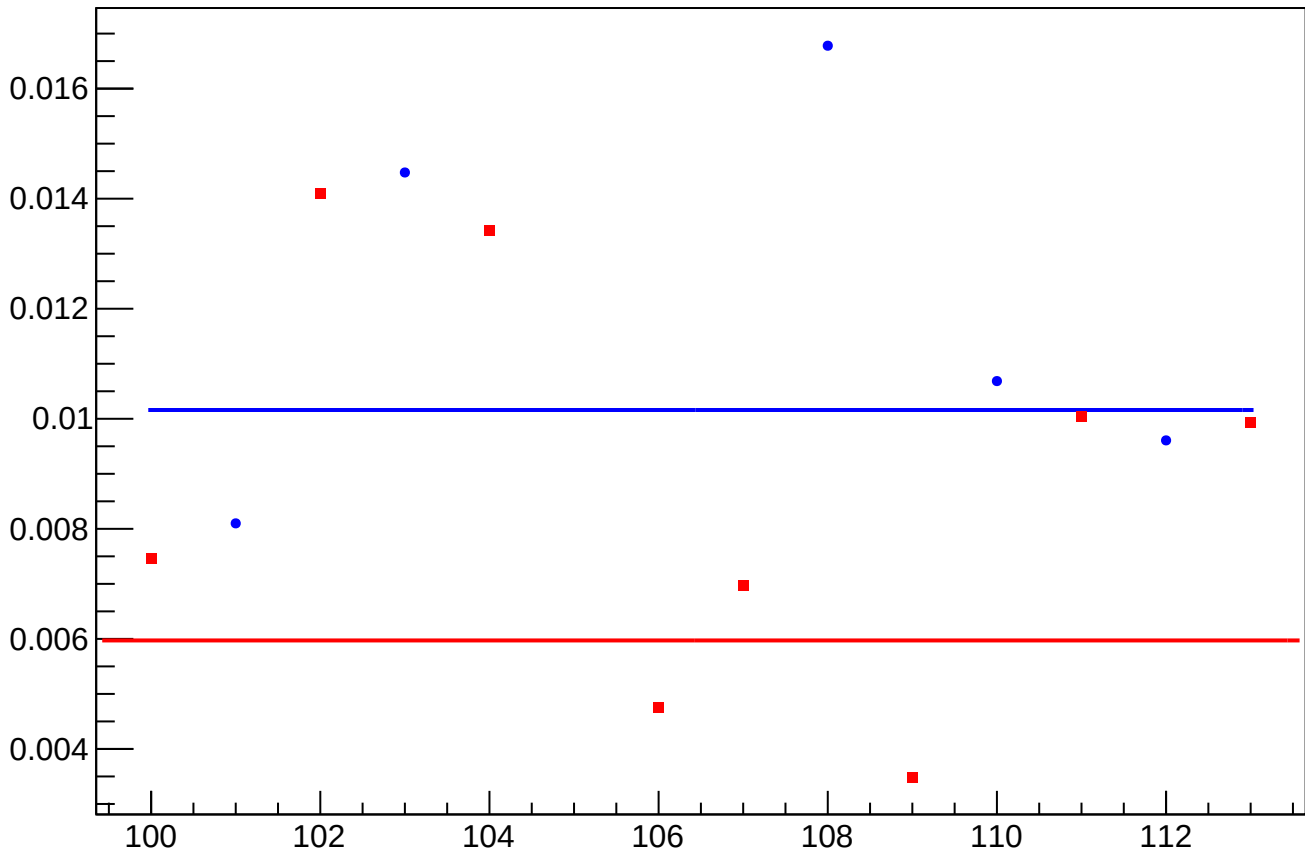
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 319074.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1483879.8/7

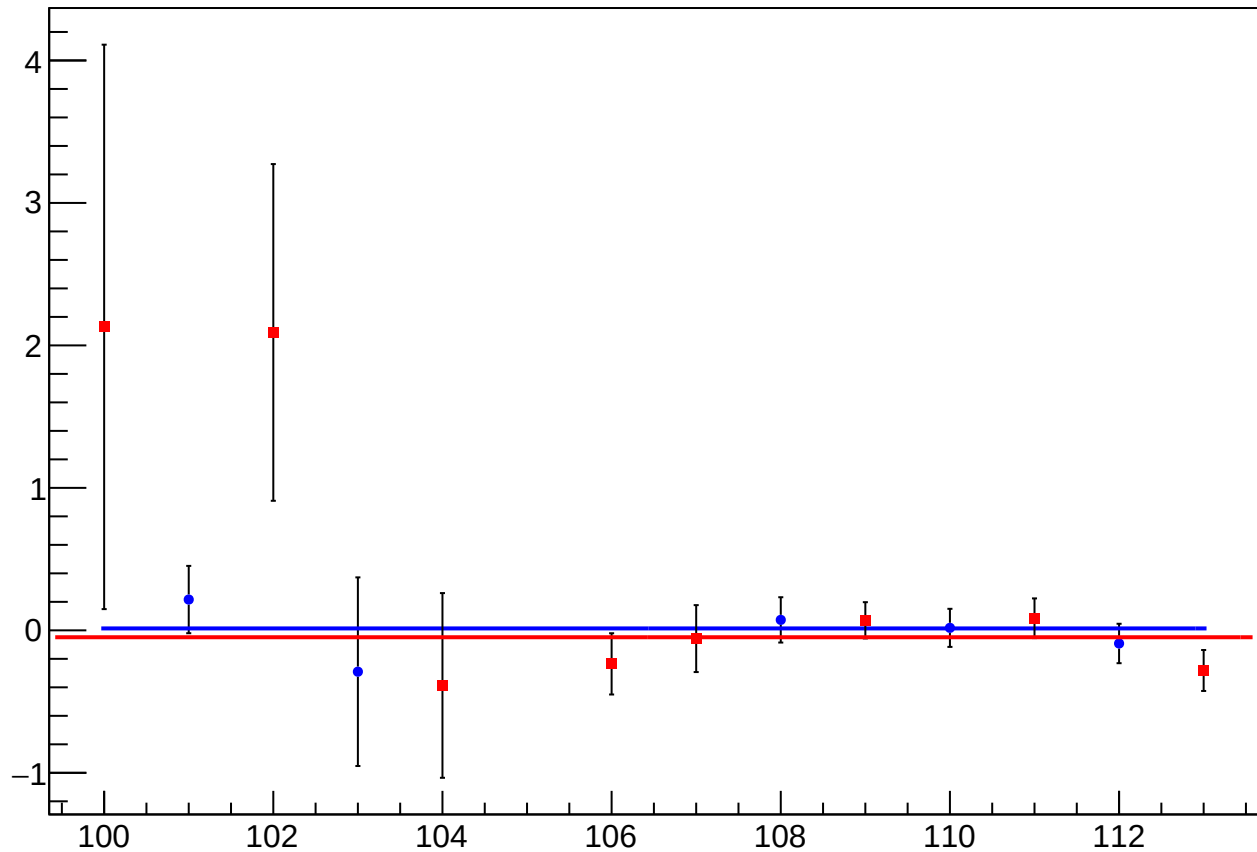
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 2395240.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.014 $\pm$ 0.077  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.048 $\pm$ 0.070  $\chi^2$ /NDF: 9.9/7

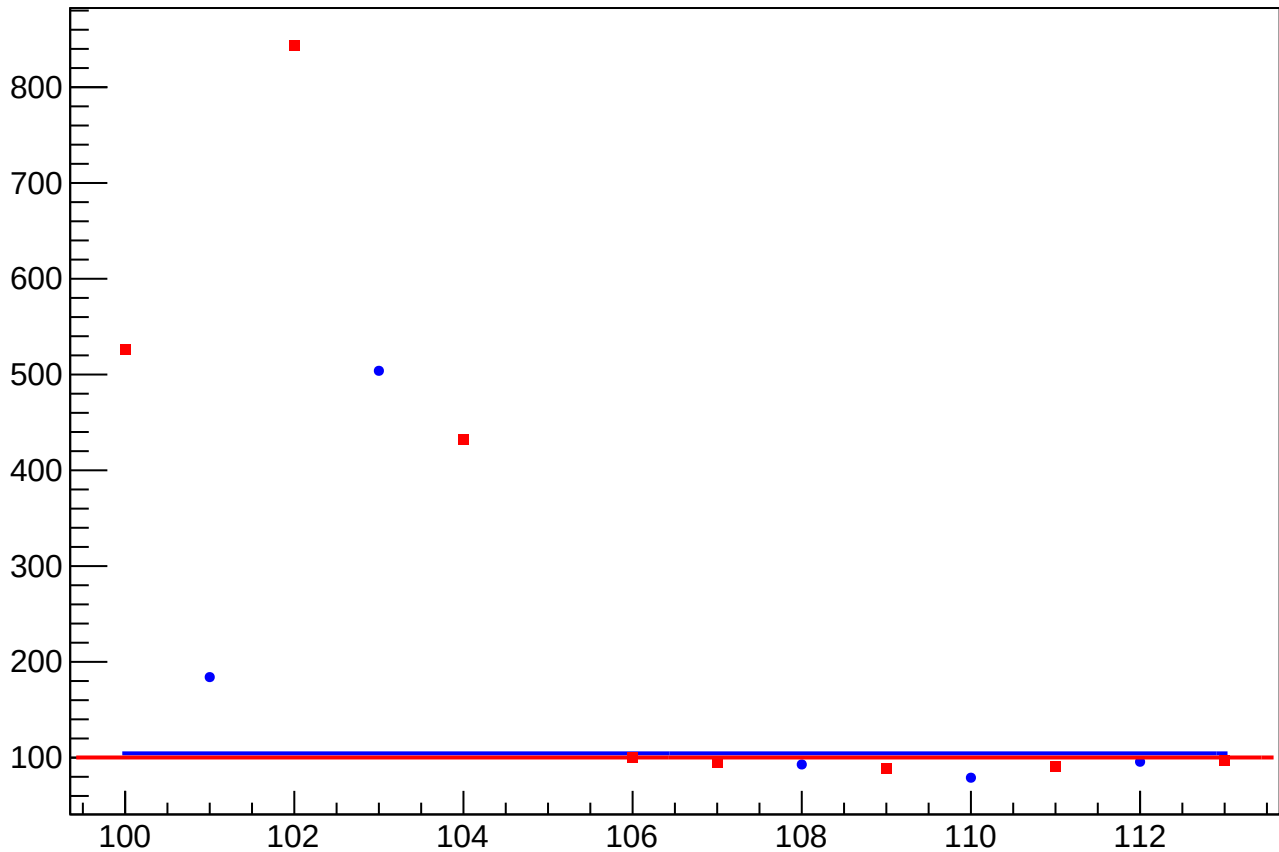
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.021 $\pm$ 0.052  $\chi^2$ /NDF: 12.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 104.465+/-0.055  $\chi^2/\text{NDF}$ : 1046168.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 100.166+/-0.049  $\chi^2/\text{NDF}$ : 1436068.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

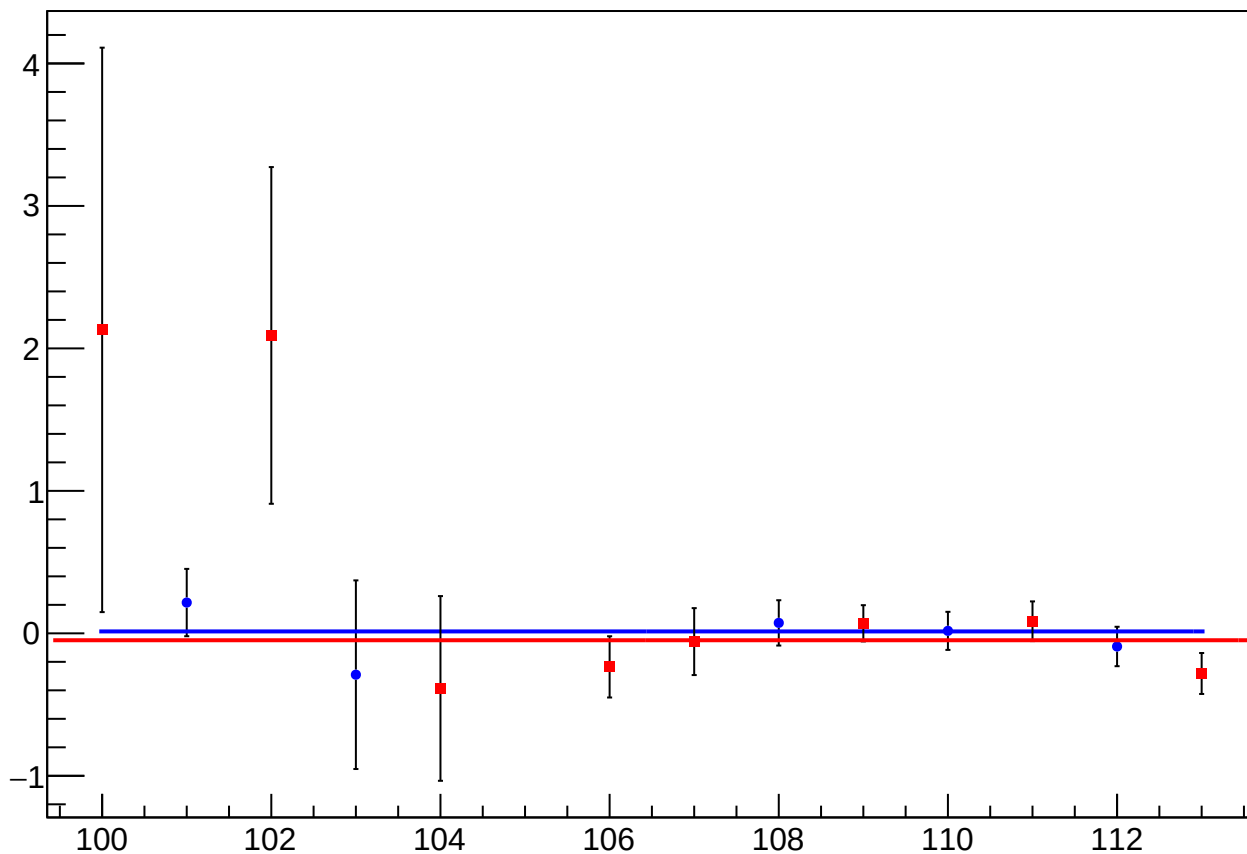
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 102.102+/-0.037  $\chi^2/\text{NDF}$ : 2485648.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.014 $\pm$ 0.077  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.048 $\pm$ 0.070  $\chi^2$ /NDF: 9.9/7

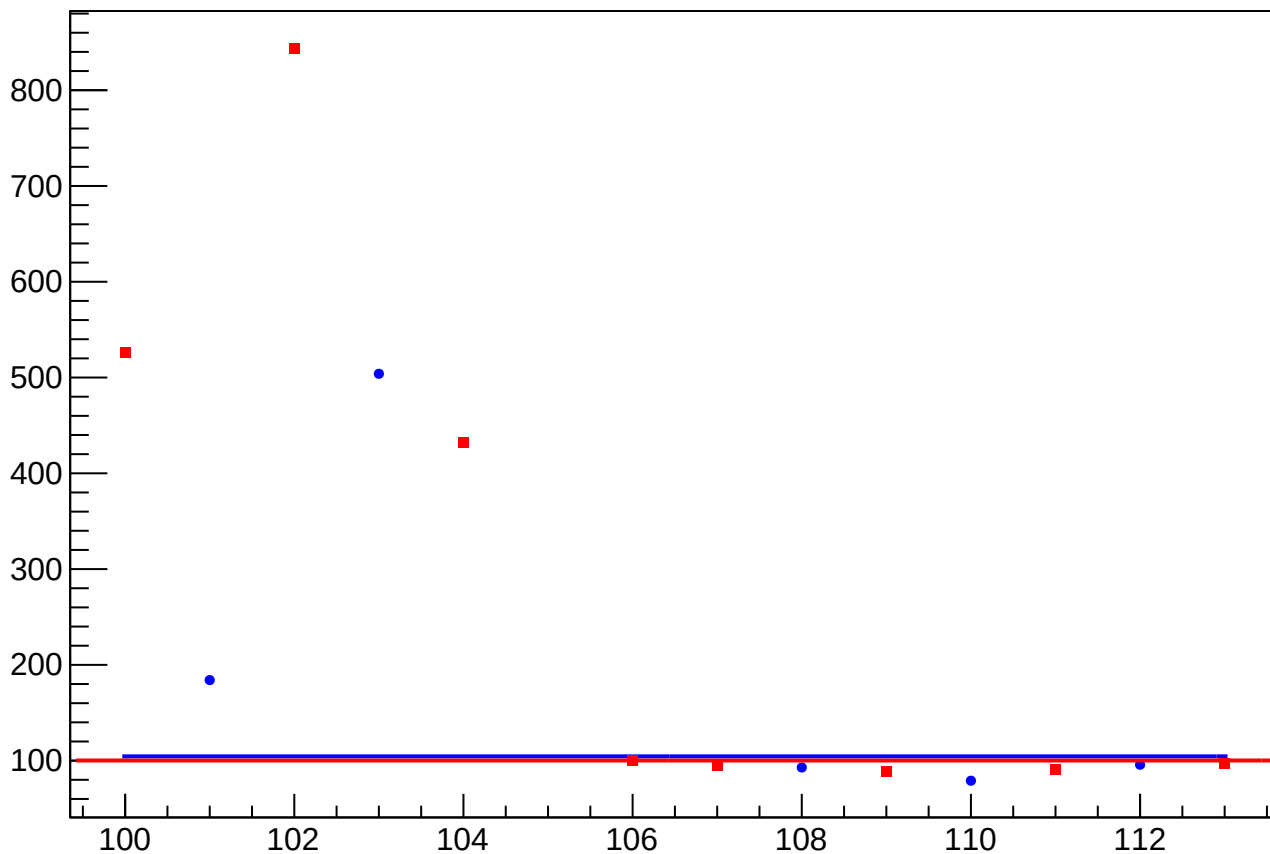
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.021 $\pm$ 0.052  $\chi^2$ /NDF: 12.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 104.465+/-0.055  $\chi^2/\text{NDF}$ : 1046168.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 100.166+/-0.049  $\chi^2/\text{NDF}$ : 1436068.1/7

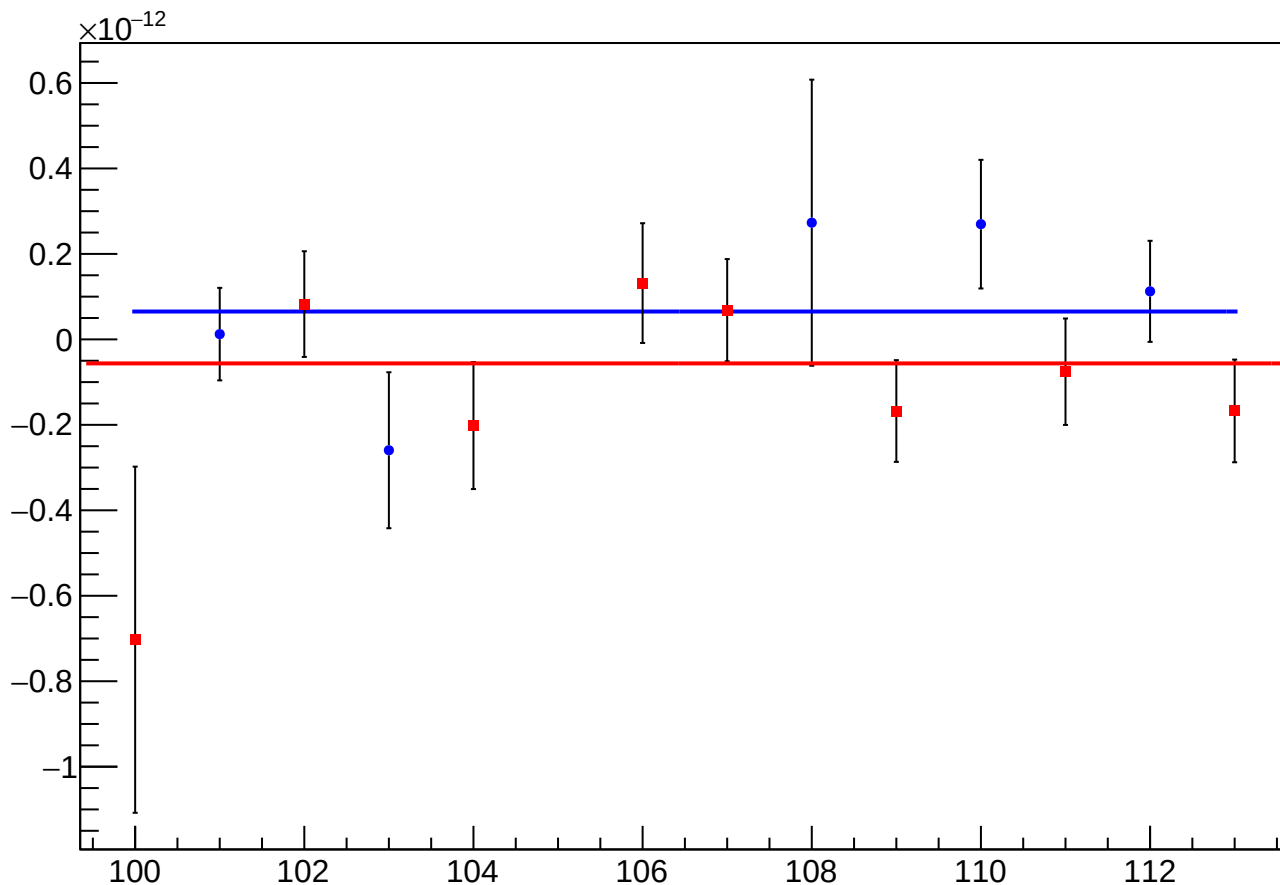
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 102.102+/-0.037  $\chi^2/\text{NDF}$ : 2485648.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.4/7

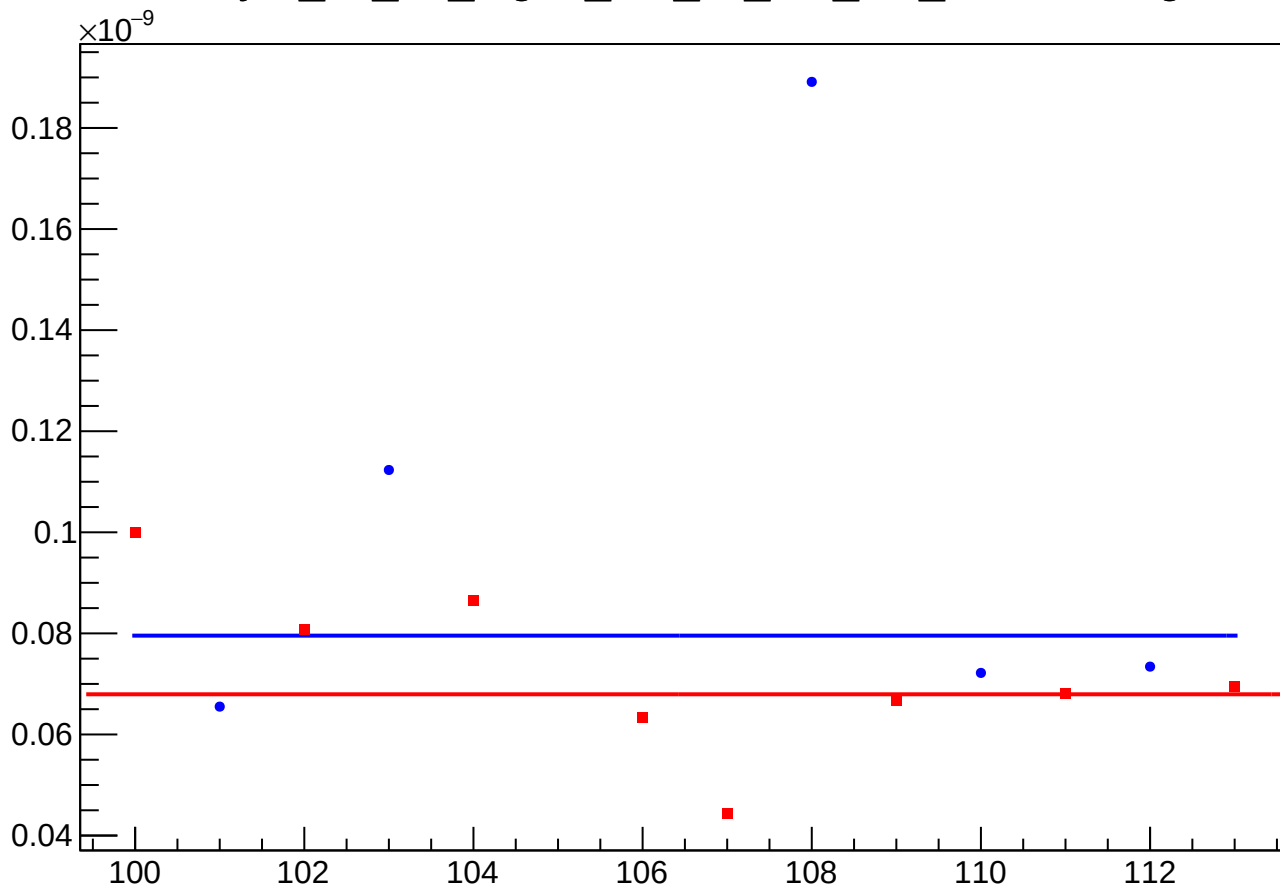
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 322666.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 145186.8/7

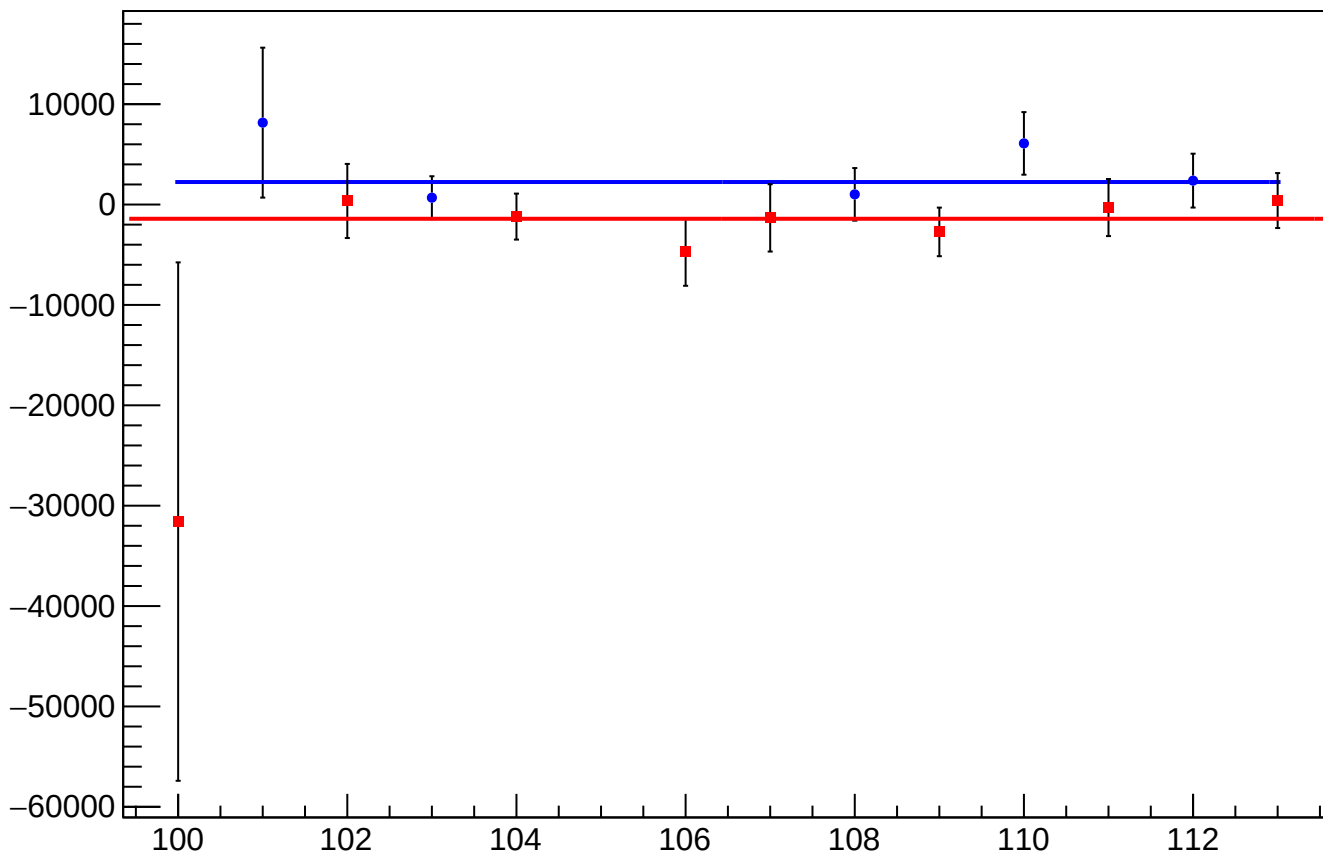
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 509737.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_avg\_mean vs Slug



Right In: 2243.991+/-1264.829  $\chi^2/\text{NDF}$ : 2.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1417.411+/-1072.056  $\chi^2/\text{NDF}$ : 3.5/7

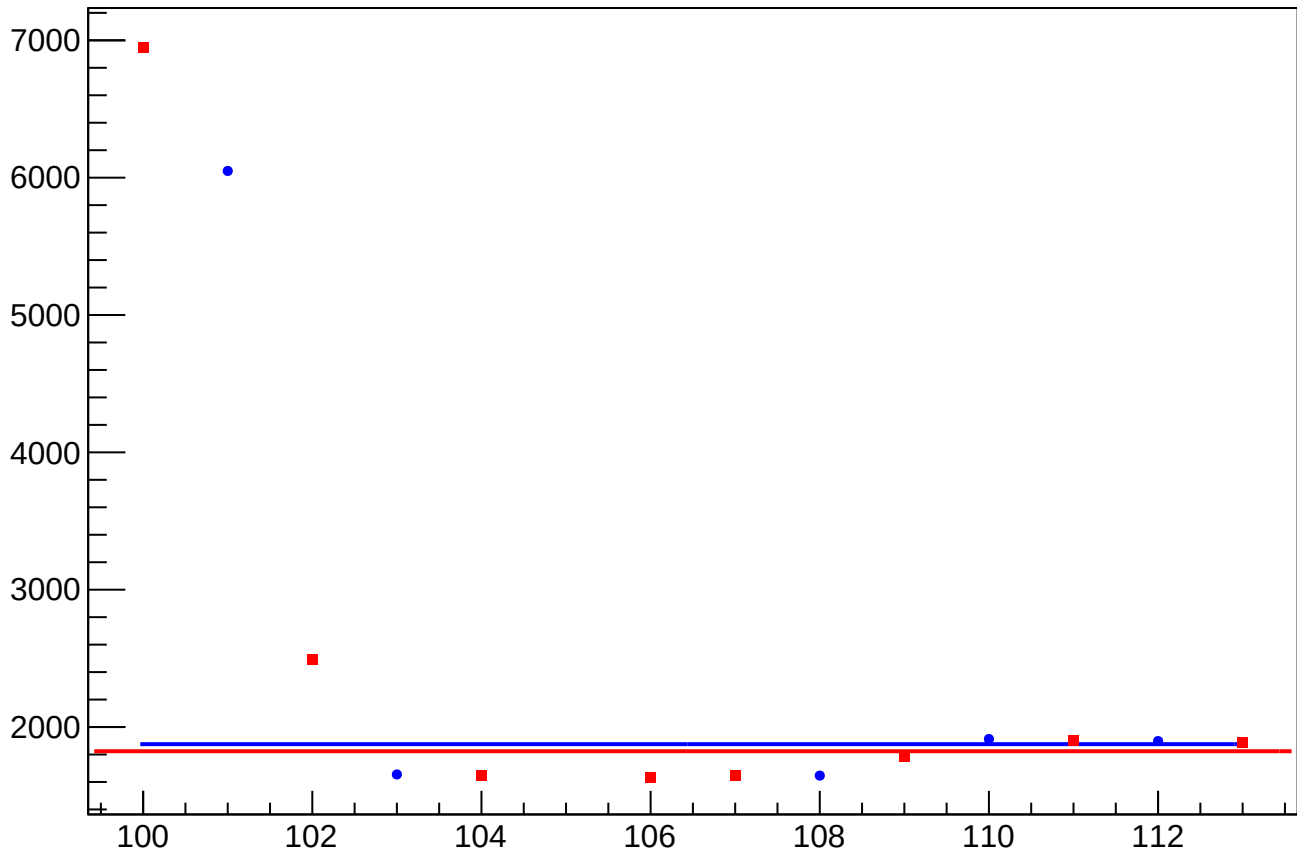
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 113.297+/-817.813  $\chi^2/\text{NDF}$ : 11.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_avg\_rms vs Slug



Right In: 1875.362 $\pm$ 0.894  $\chi^2$ /NDF: 661608.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1823.919 $\pm$ 0.752  $\chi^2$ /NDF: 171538.1/7

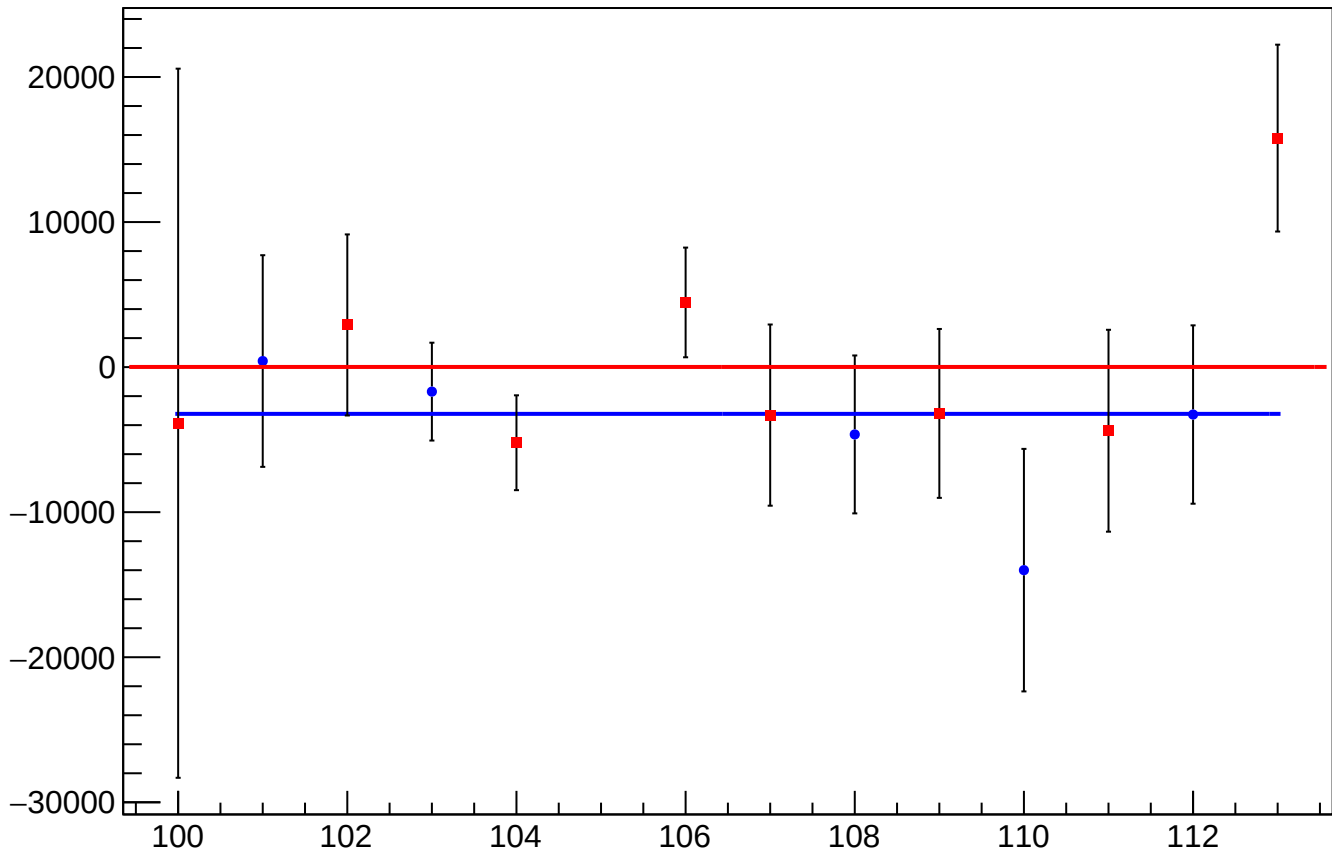
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1845.229 $\pm$ 0.576  $\chi^2$ /NDF: 835084.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_avg\_reg\_correction\_mean vs Slug



Right In: -3222.884 $\pm$ 2349.178  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11.474 $\pm$ 1854.686  $\chi^2$ /NDF: 11.2/7

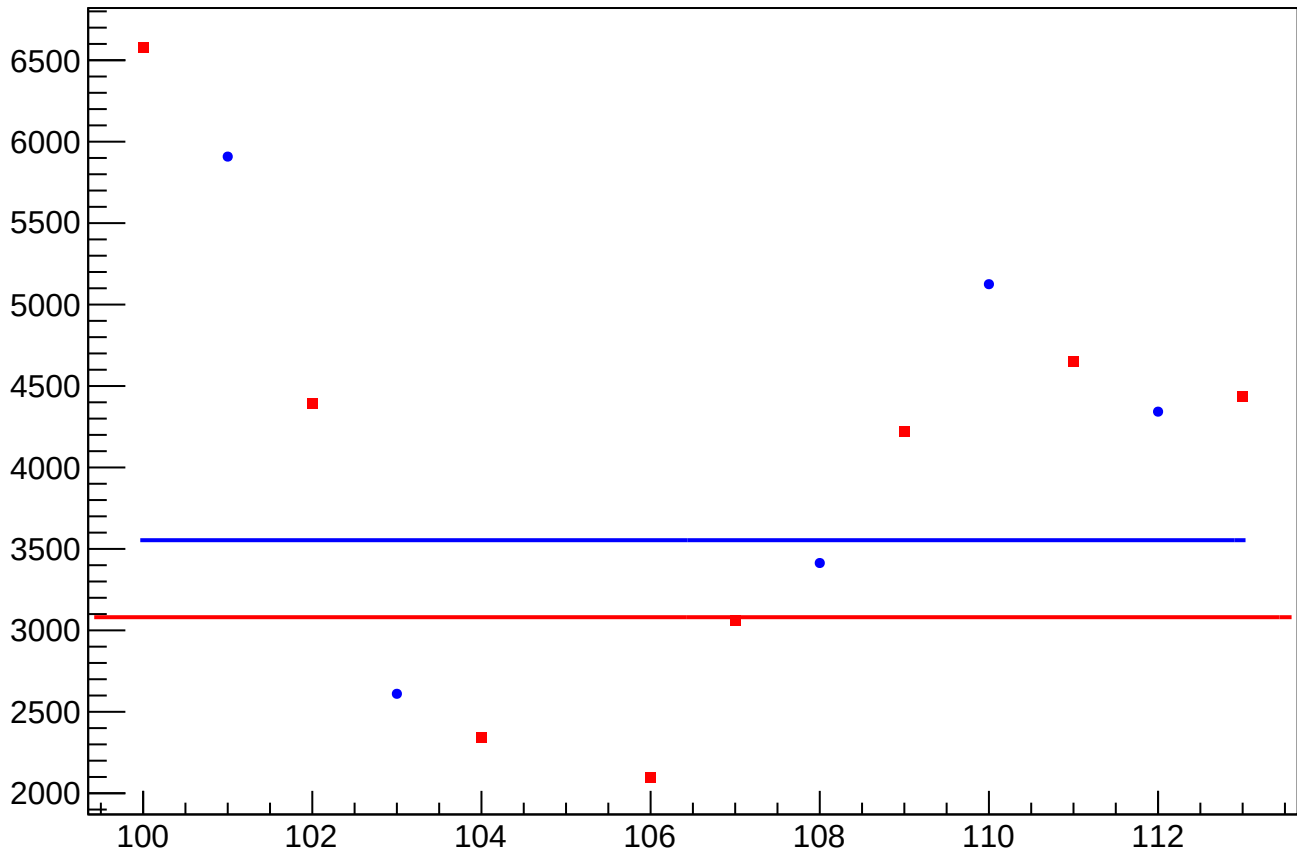
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1230.446 $\pm$ 1455.689  $\chi^2$ /NDF: 14.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_avg\_reg\_correction\_rms vs Slug



Right In: 3553.519+/-1.661  $\chi^2/\text{NDF}$ : 469642.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3080.820+/-1.311  $\chi^2/\text{NDF}$ : 634059.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

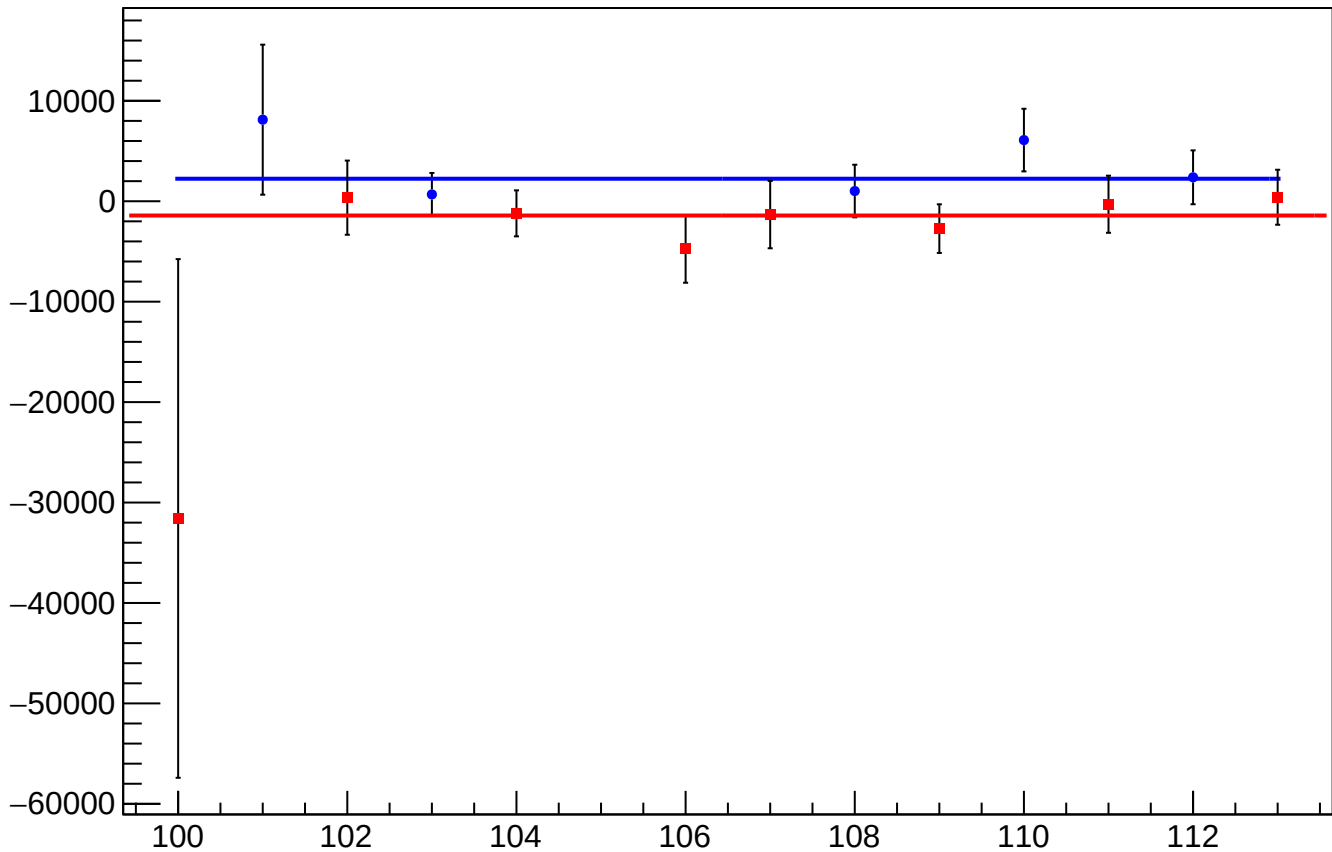
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3262.325+/-1.029  $\chi^2/\text{NDF}$ : 1153586.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atr\_avg\_mean vs Slug



Right In: 2241.893+/-1264.830  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1420.173+/-1072.071  $\chi^2$ /NDF: 3.5/7

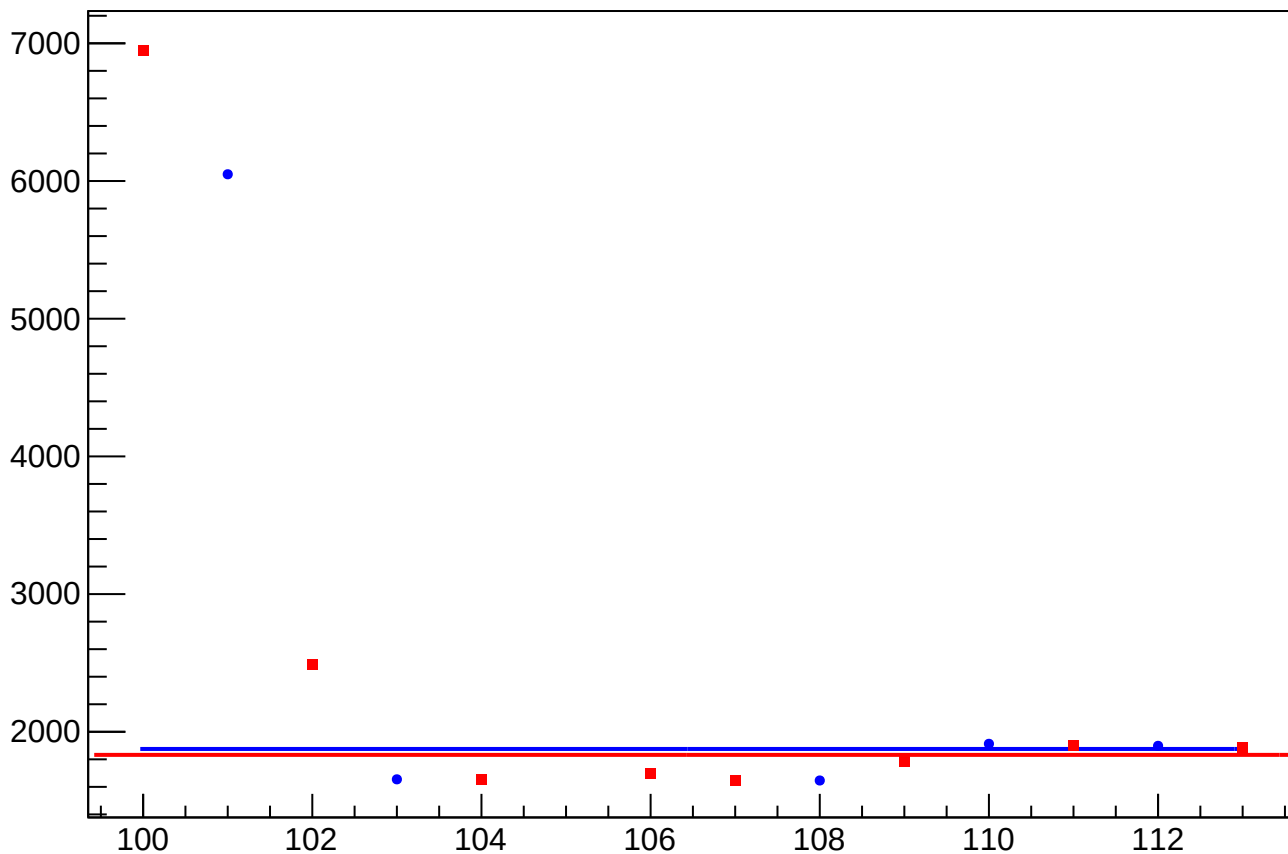
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 110.835+/-817.820  $\chi^2$ /NDF: 11.2/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atr\_avg\_rms vs Slug



Right In: 1875.363+/-0.894  $\chi^2/\text{NDF}$ : 661607.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1832.371+/-0.755  $\chi^2/\text{NDF}$ : 167050.2/7

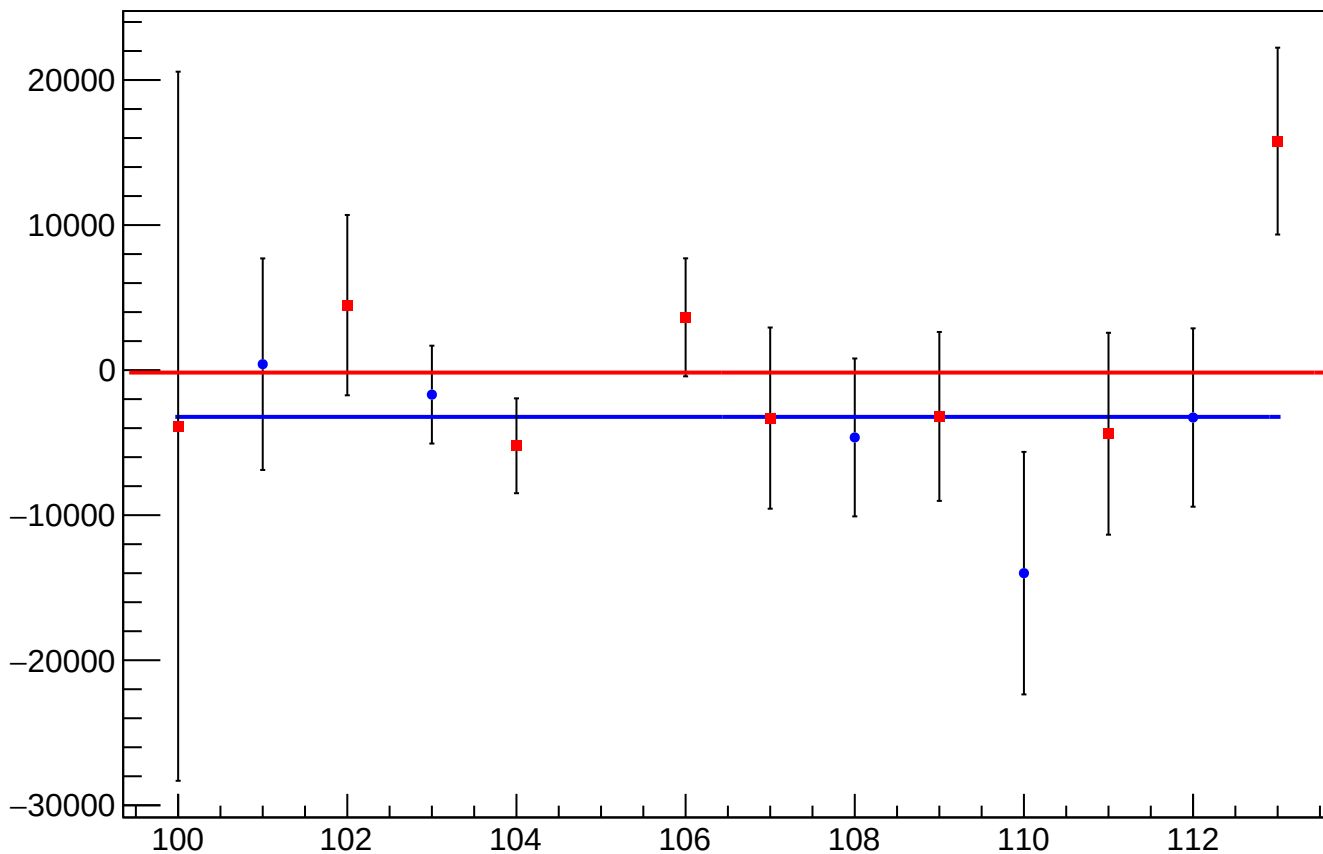
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1850.270+/-0.577  $\chi^2/\text{NDF}$ : 830006.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_cor\_correction\_mean vs Slug



Right In: -3223.776+/-2349.185  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -168.835+/-1885.192  $\chi^2$ /NDF: 10.9/7

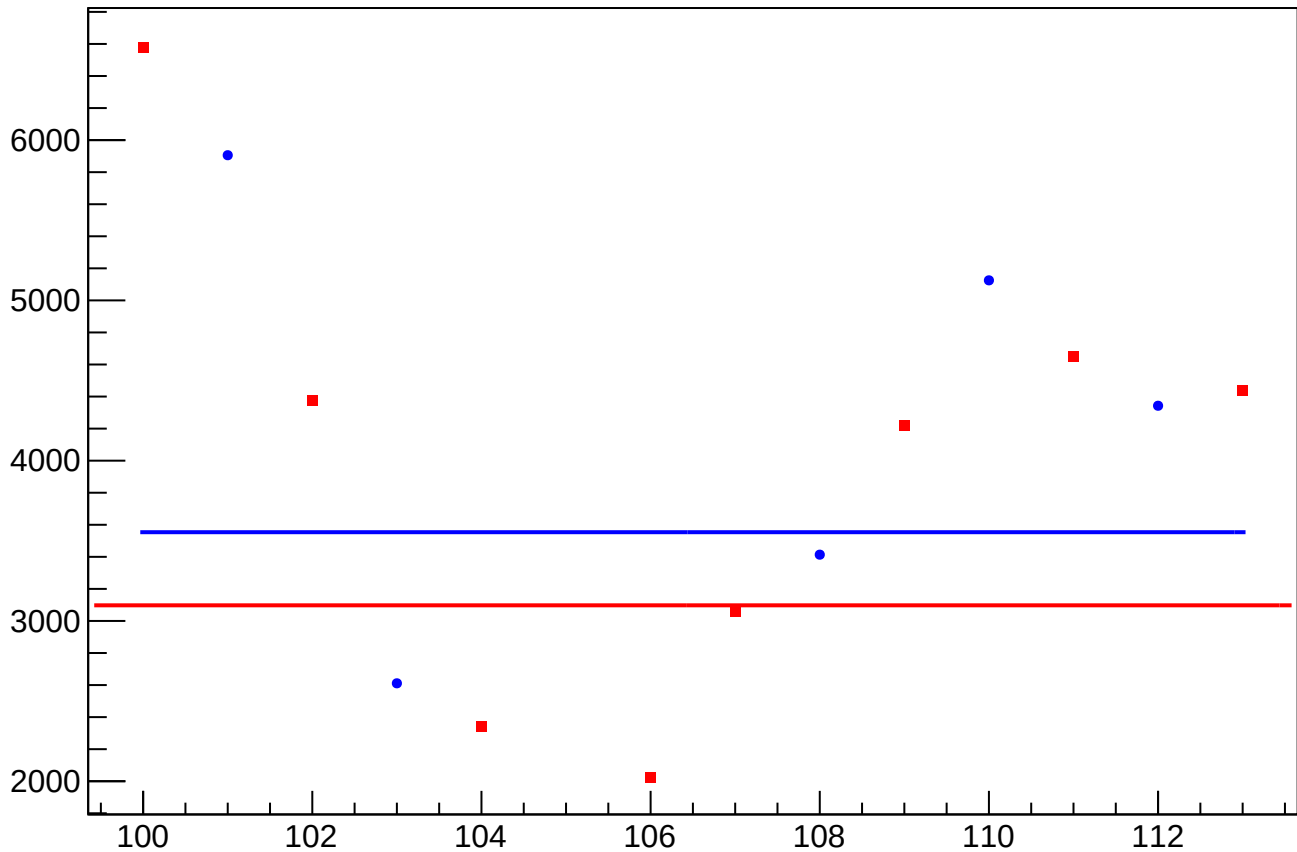
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1365.524+/-1470.302  $\chi^2$ /NDF: 14.1/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_avg\_cor\_correction\_rms vs Slug



Right In: 3553.717+/-1.661  $\chi^2/\text{NDF}$ : 469220.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

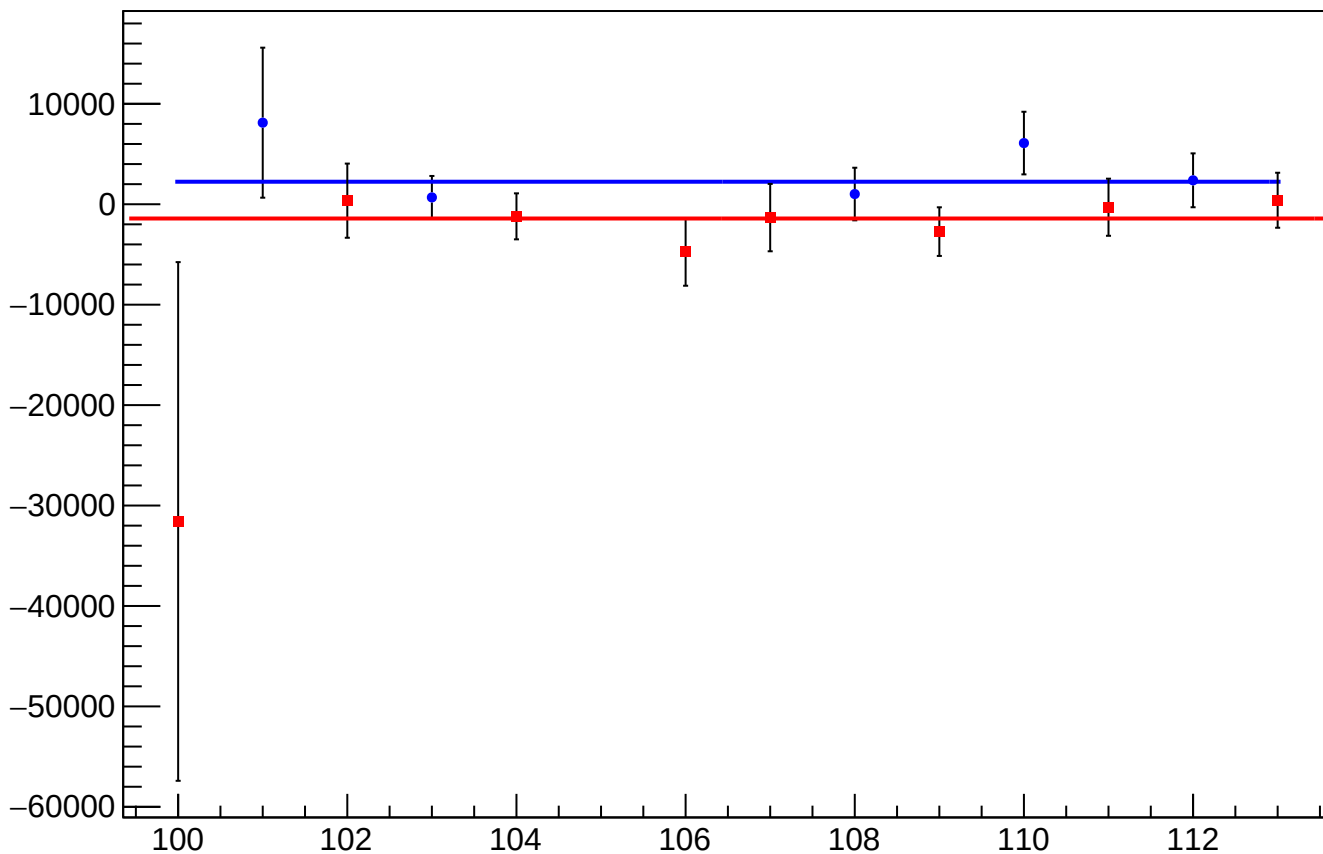
Right Out: 3097.501+/-1.333  $\chi^2/\text{NDF}$ : 631314.7/7

All: 3276.211+/-1.040  $\chi^2/\text{NDF}$ : 1146416.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr\_avg\_mean vs Slug



Right In: 2241.893 $\pm$ 1264.830  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1420.173 $\pm$ 1072.071  $\chi^2$ /NDF: 3.5/7

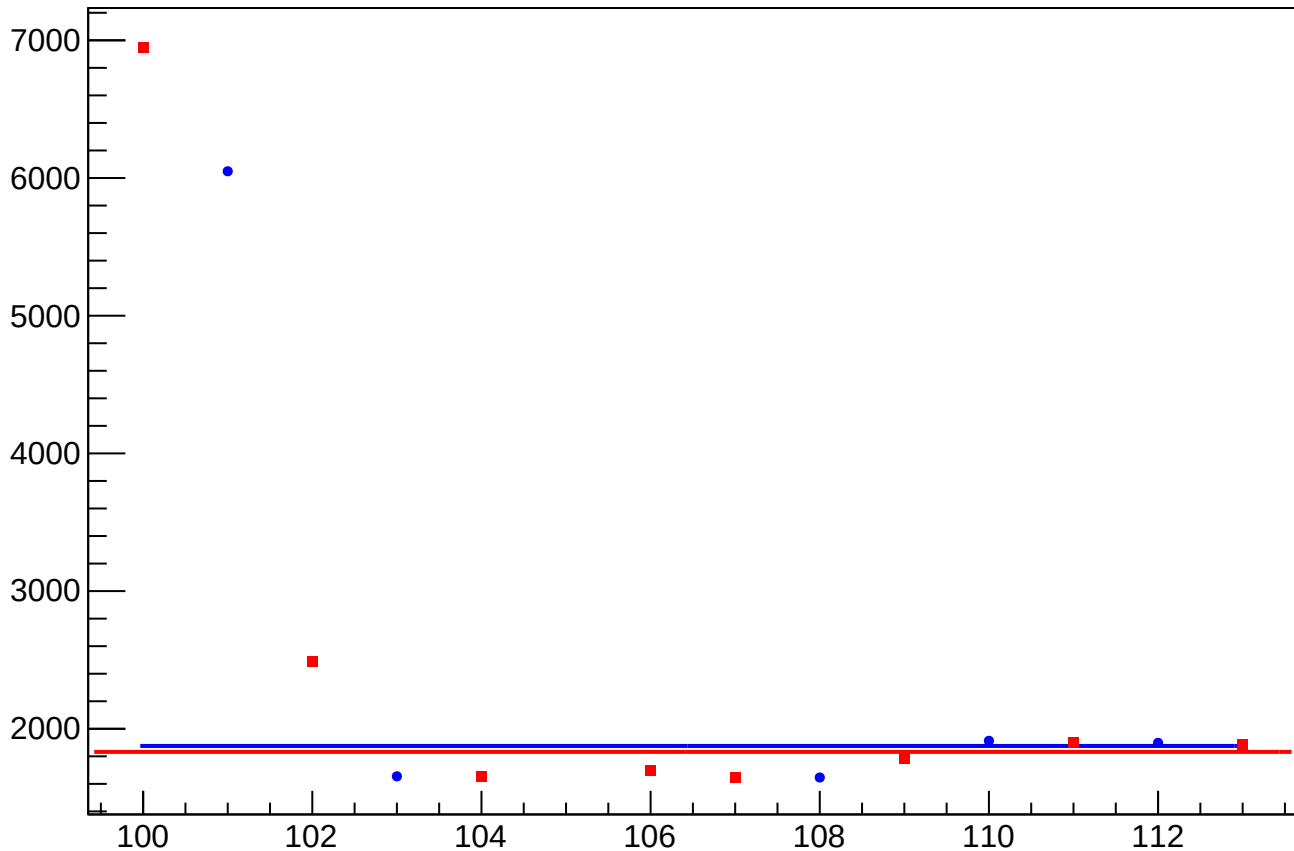
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.835 $\pm$ 817.820  $\chi^2$ /NDF: 11.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atr\_avg\_rms vs Slug



Right In: 1875.363+/-0.894  $\chi^2/\text{NDF}$ : 661607.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1832.371+/-0.755  $\chi^2/\text{NDF}$ : 167050.2/7

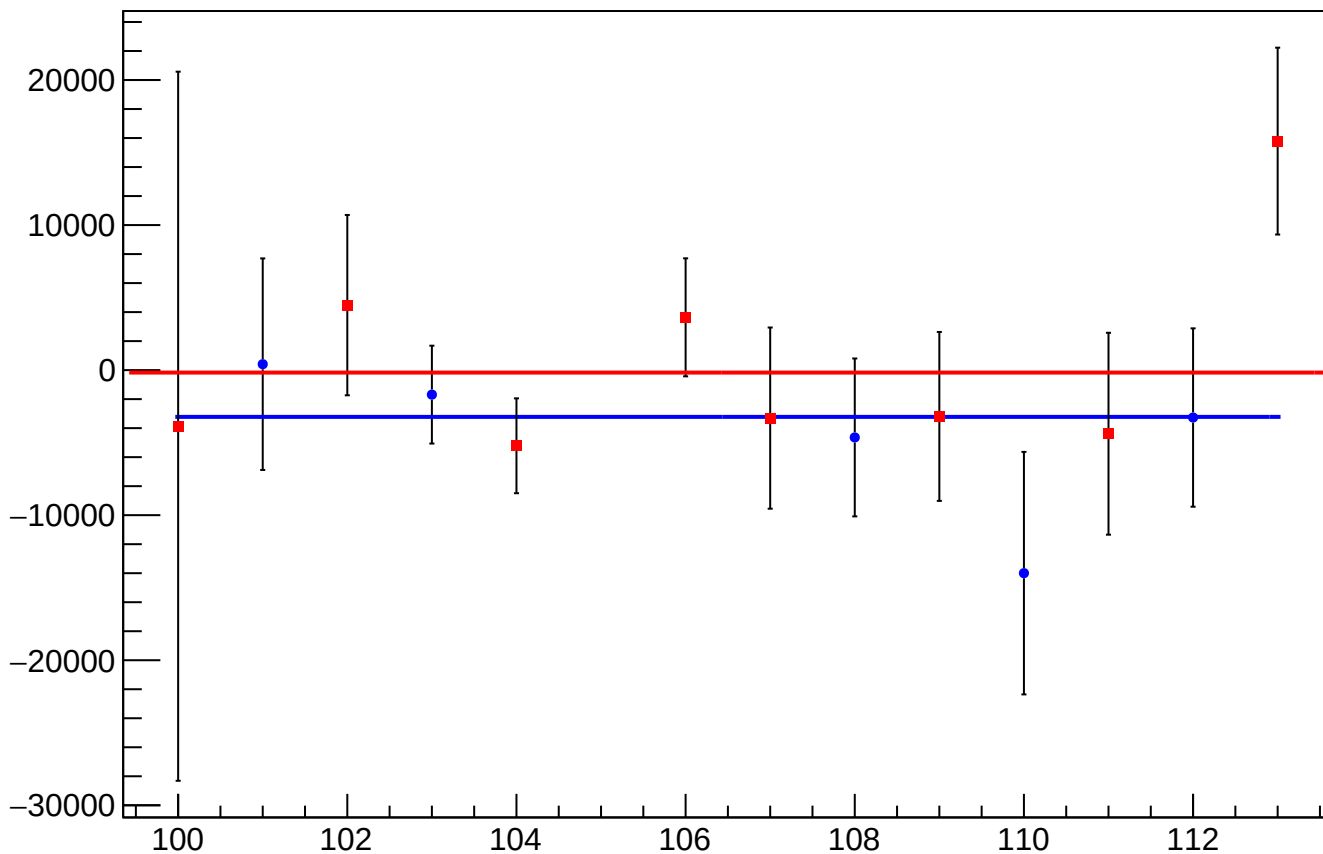
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1850.270+/-0.577  $\chi^2/\text{NDF}$ : 830006.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -3223.776+/-2349.185  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -168.835+/-1885.192  $\chi^2$ /NDF: 10.9/7

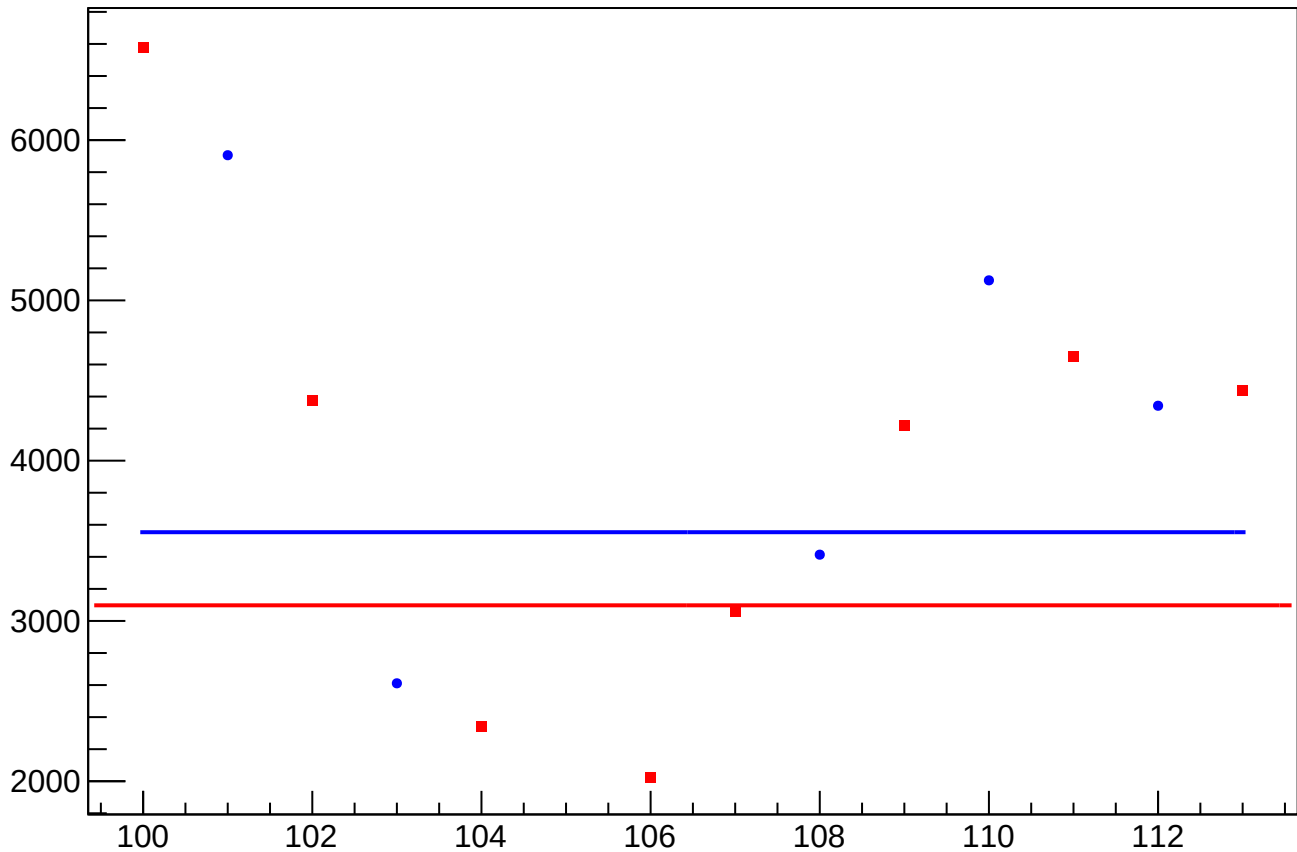
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1365.524+/-1470.302  $\chi^2$ /NDF: 14.1/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 3553.717+/-1.661  $\chi^2/\text{NDF}$ : 469220.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3097.501+/-1.333  $\chi^2/\text{NDF}$ : 631314.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

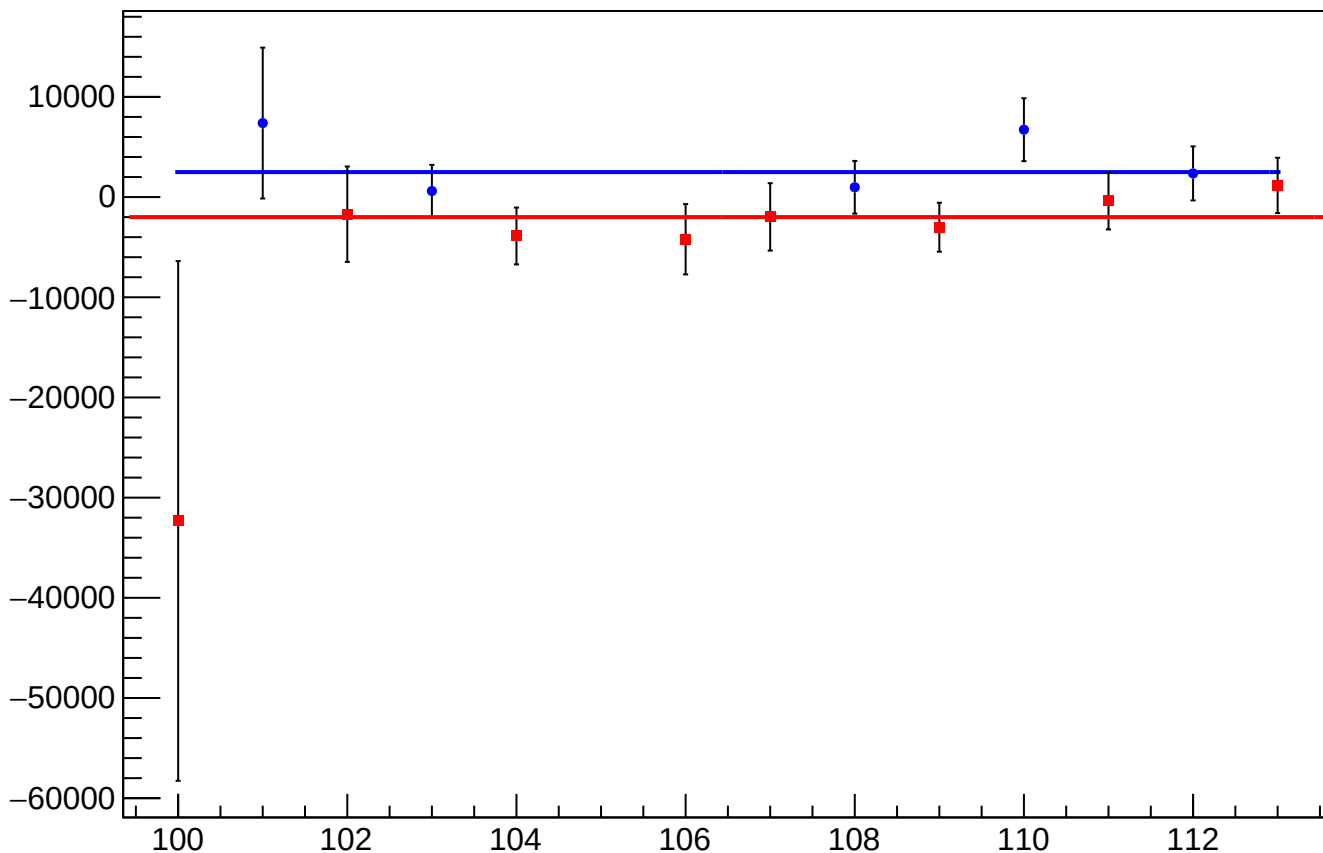
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3276.211+/-1.040  $\chi^2/\text{NDF}$ : 1146416.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_atr\_avg\_mean vs Slug



Right In: 2495.715 $\pm$ 1350.551  $\chi^2$ /NDF: 3.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1997.012 $\pm$ 1146.433  $\chi^2$ /NDF: 4.0/7

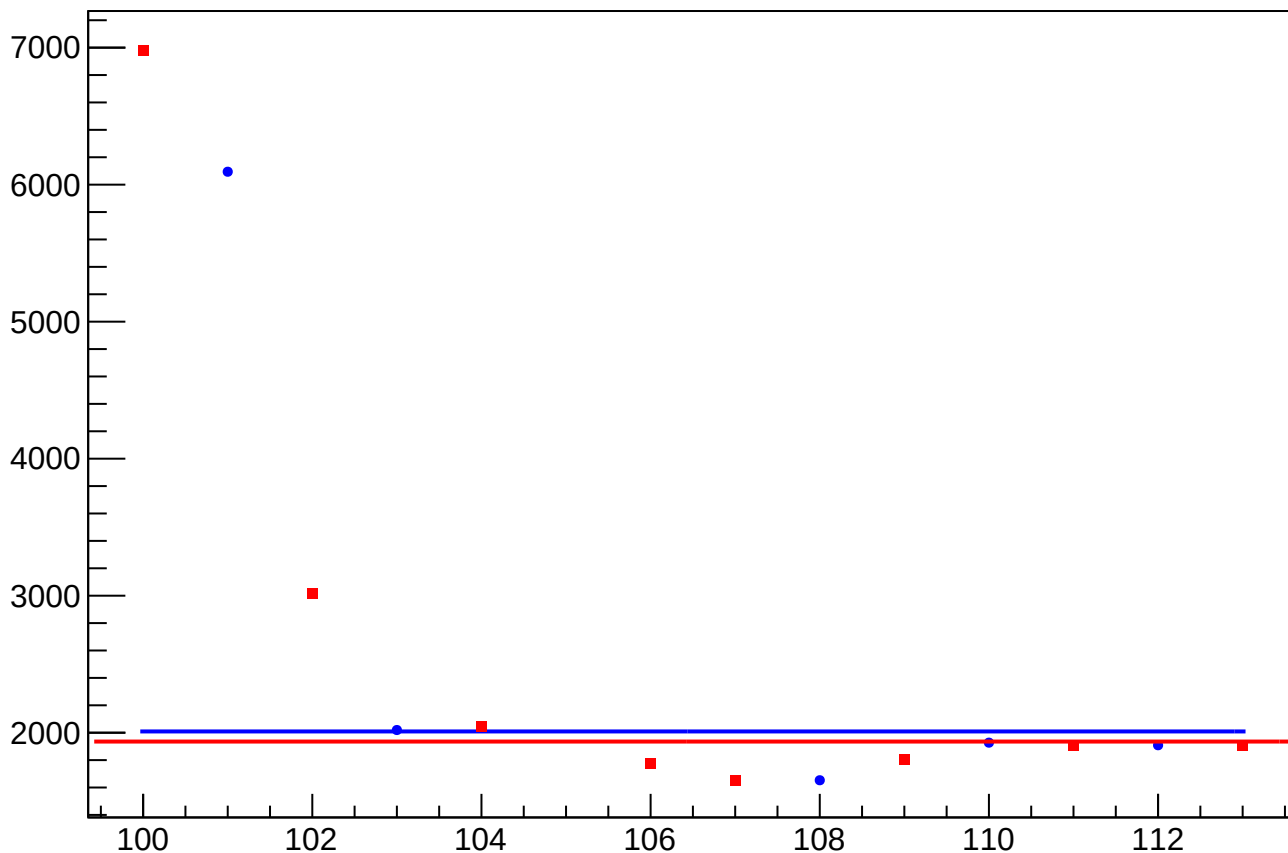
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -115.472 $\pm$ 874.002  $\chi^2$ /NDF: 13.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atr\_avg\_rms vs Slug



Right In: 2009.230+/-0.955  $\chi^2/\text{NDF}$ : 629895.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1935.427+/-0.809  $\chi^2/\text{NDF}$ : 207175.1/7

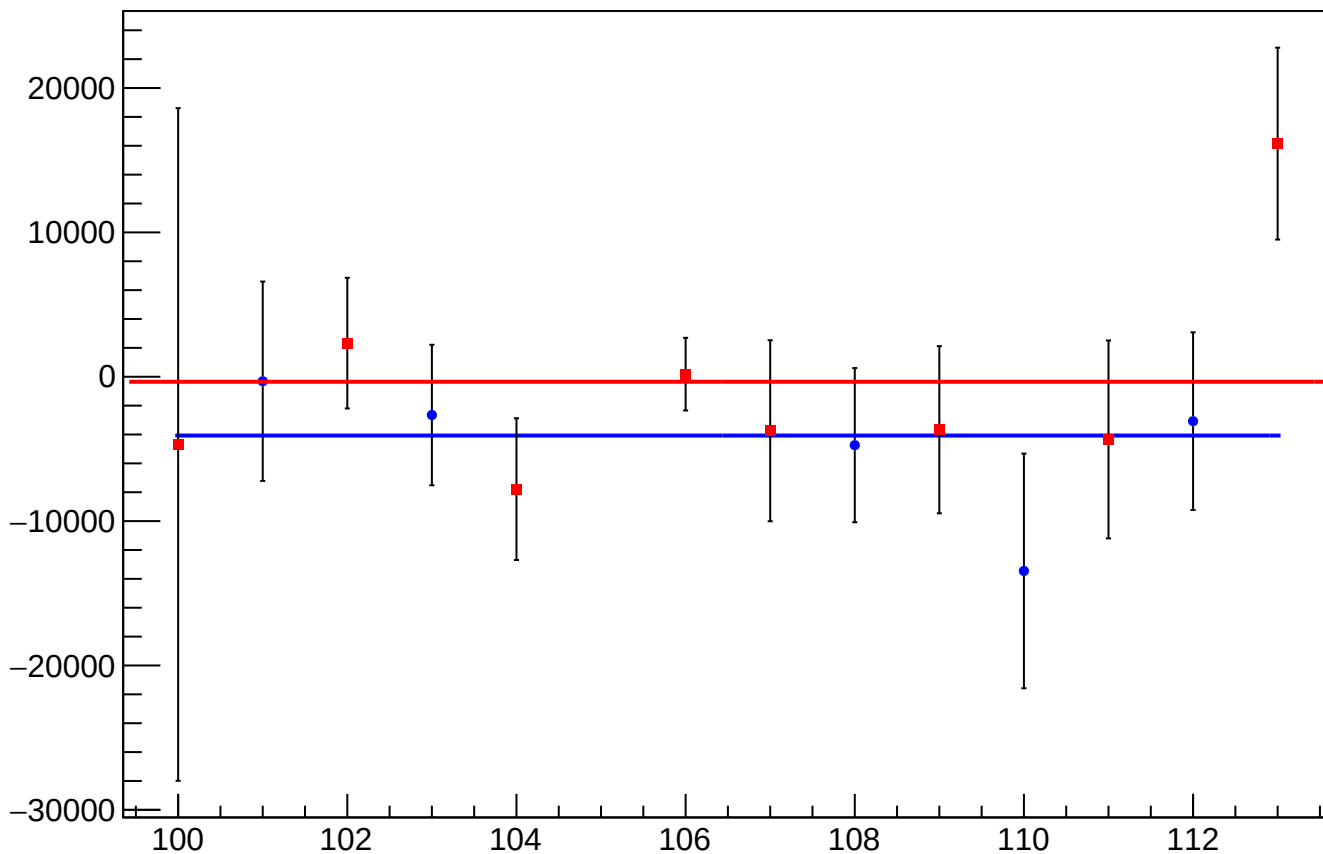
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1966.259+/-0.617  $\chi^2/\text{NDF}$ : 840547.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_dit\_correction\_mean vs Slug



Right In: -4072.807 $\pm$ 2674.109  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -346.494 $\pm$ 1692.012  $\chi^2$ /NDF: 9.8/7

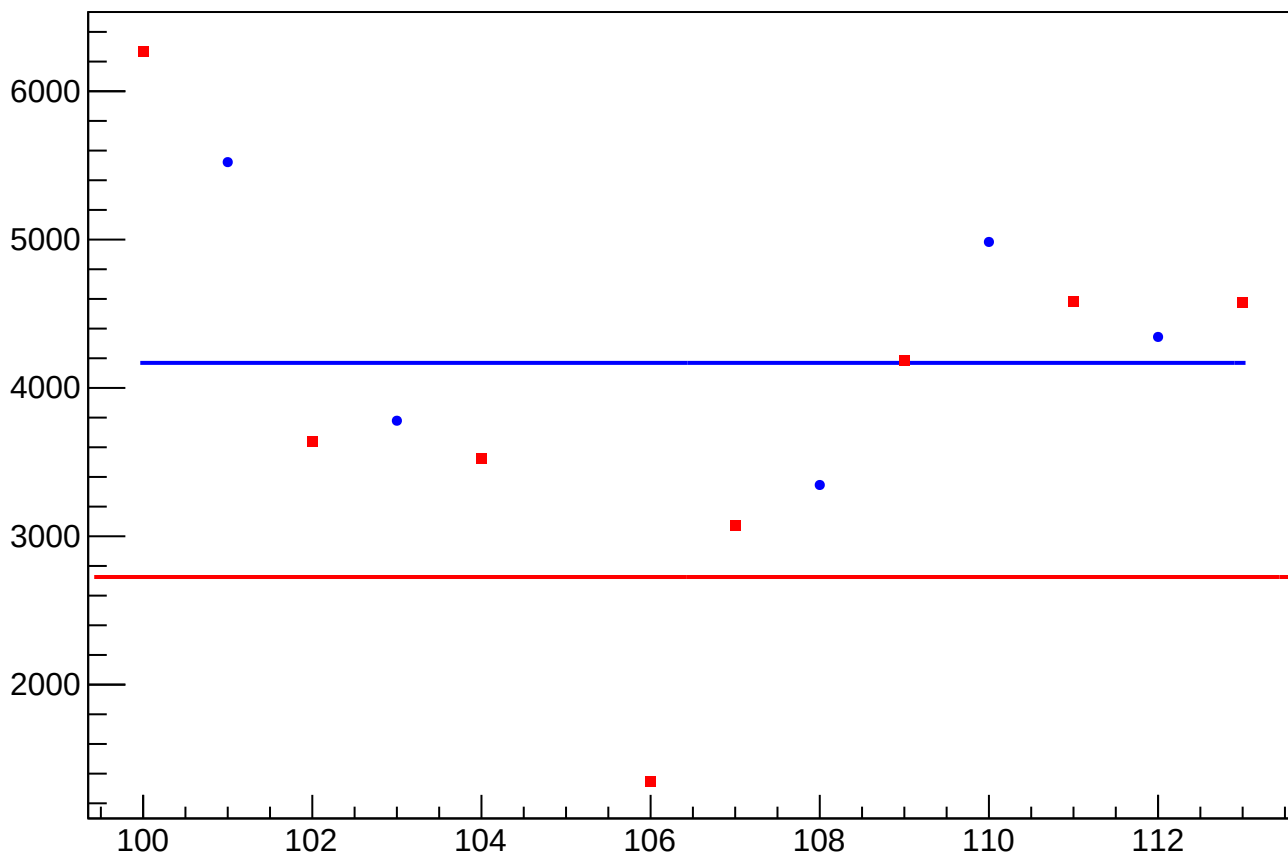
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1411.836 $\pm$ 1429.828  $\chi^2$ /NDF: 13.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_avg\_dit\_correction\_rms vs Slug



Right In: 4168.940 $\pm$ 1.891  $\chi^2$ /NDF: 158930.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2725.531 $\pm$ 1.196  $\chi^2$ /NDF: 1214853.5/7

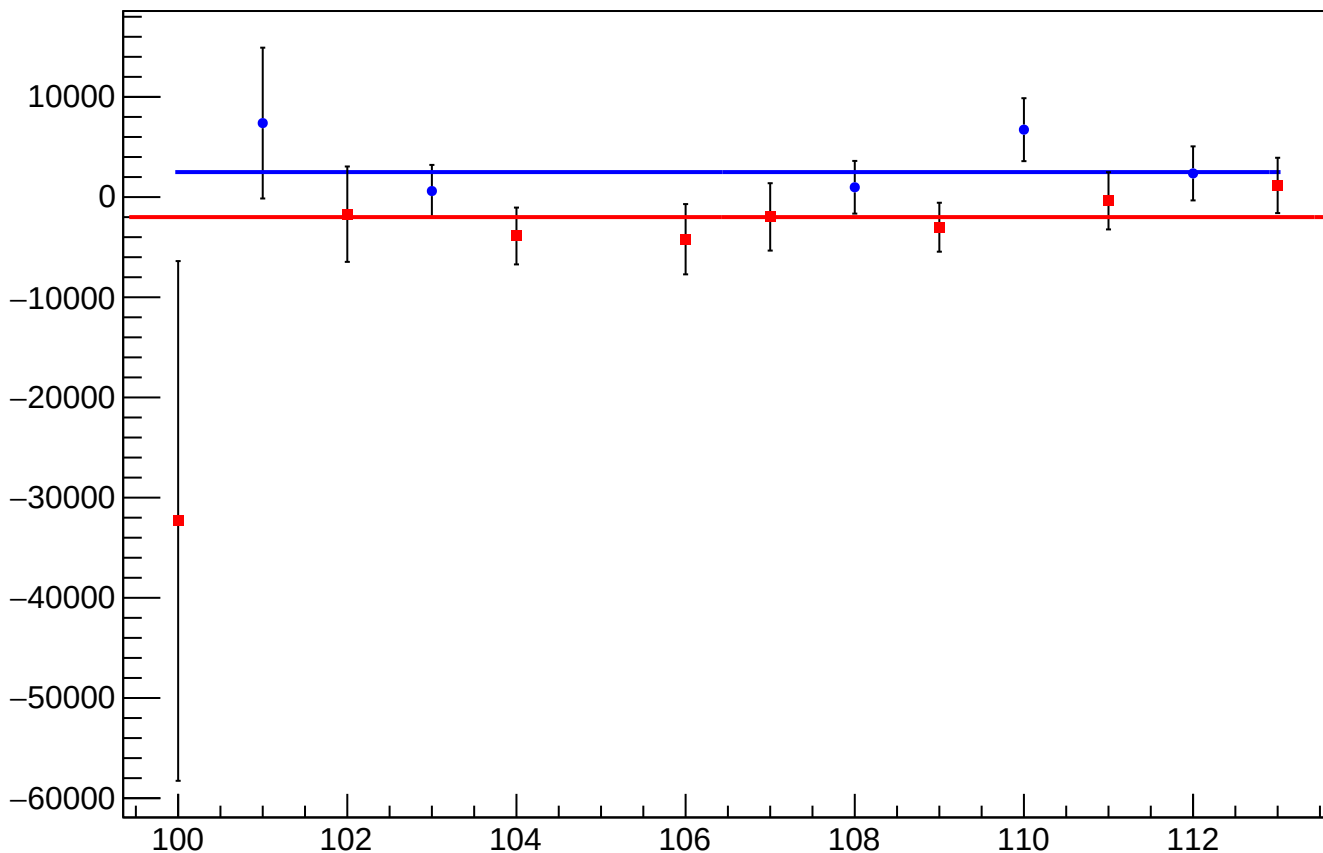
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3138.197 $\pm$ 1.011  $\chi^2$ /NDF: 1789897.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atr\_avg\_mean vs Slug



Right In: 2495.720+/-1350.550  $\chi^2/\text{NDF}$ : 3.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1997.016+/-1146.433  $\chi^2/\text{NDF}$ : 4.0/7

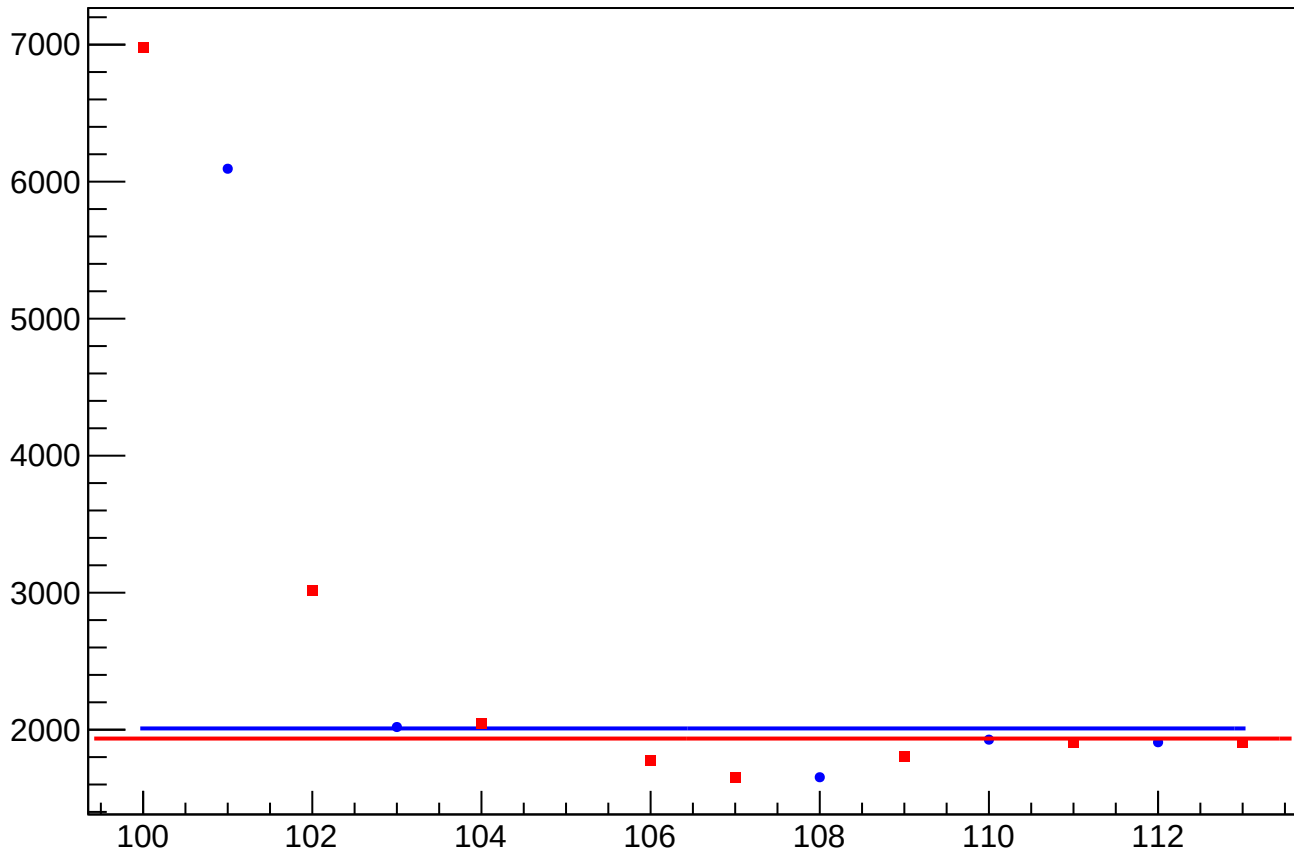
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -115.472+/-874.002  $\chi^2/\text{NDF}$ : 13.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atr\_avg\_rms vs Slug



Right In: 2009.230+/-0.955  $\chi^2/\text{NDF}$ : 629895.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1935.427+/-0.809  $\chi^2/\text{NDF}$ : 207174.7/7

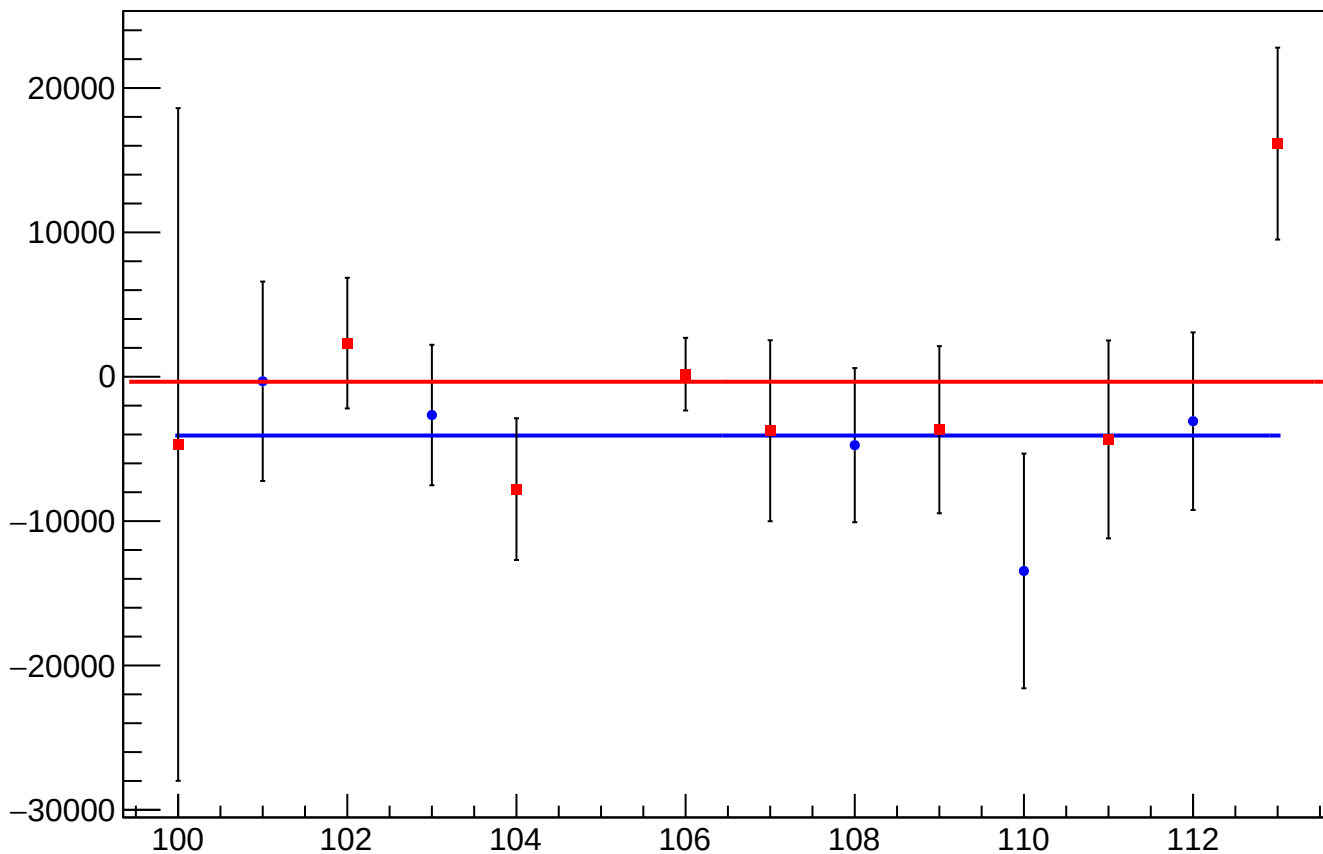
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1966.259+/-0.617  $\chi^2/\text{NDF}$ : 840547.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -4072.808 $\pm$ 2674.107  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -346.490 $\pm$ 1692.008  $\chi^2/\text{NDF}$ : 9.8/7

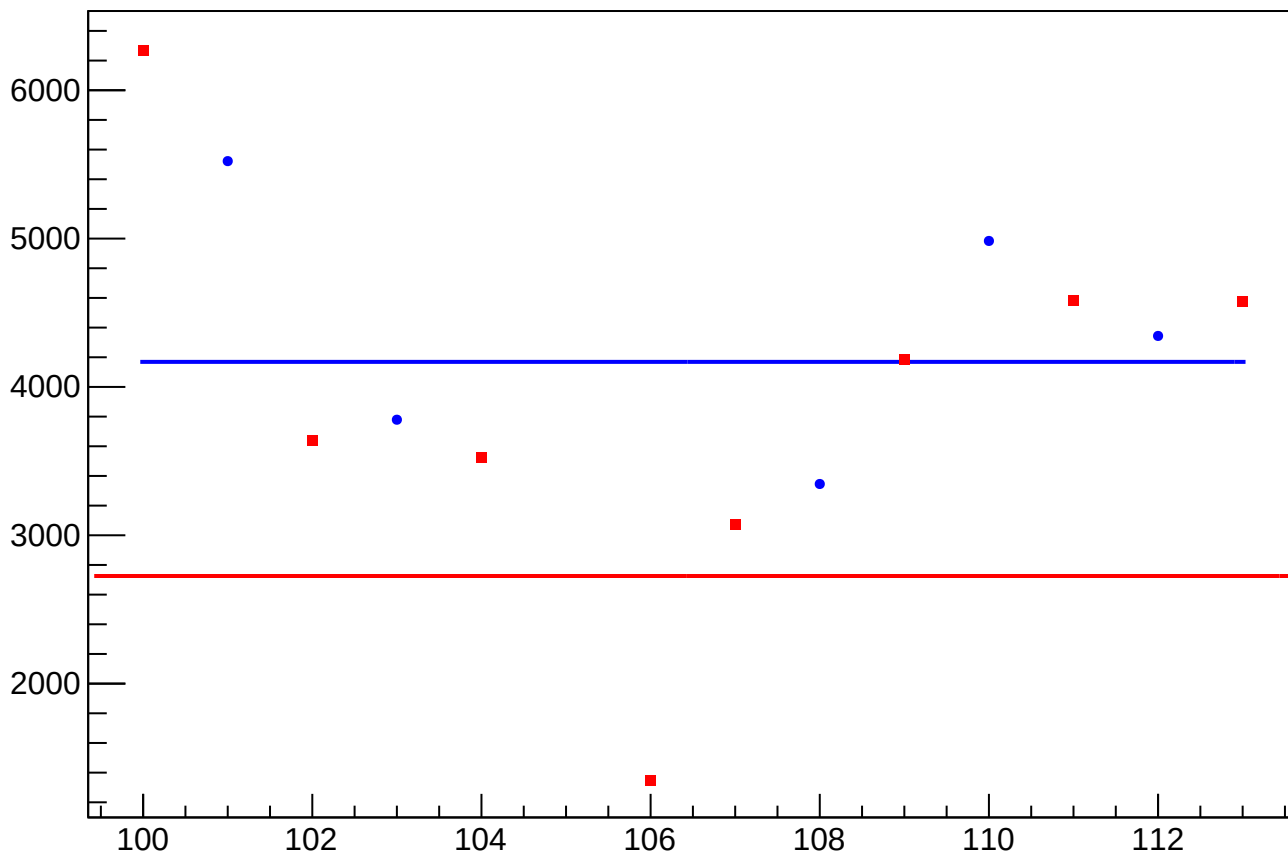
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1411.831 $\pm$ 1429.825  $\chi^2/\text{NDF}$ : 13.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 4168.938 $\pm$ 1.891  $\chi^2$ /NDF: 158928.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2725.524 $\pm$ 1.196  $\chi^2$ /NDF: 1214857.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

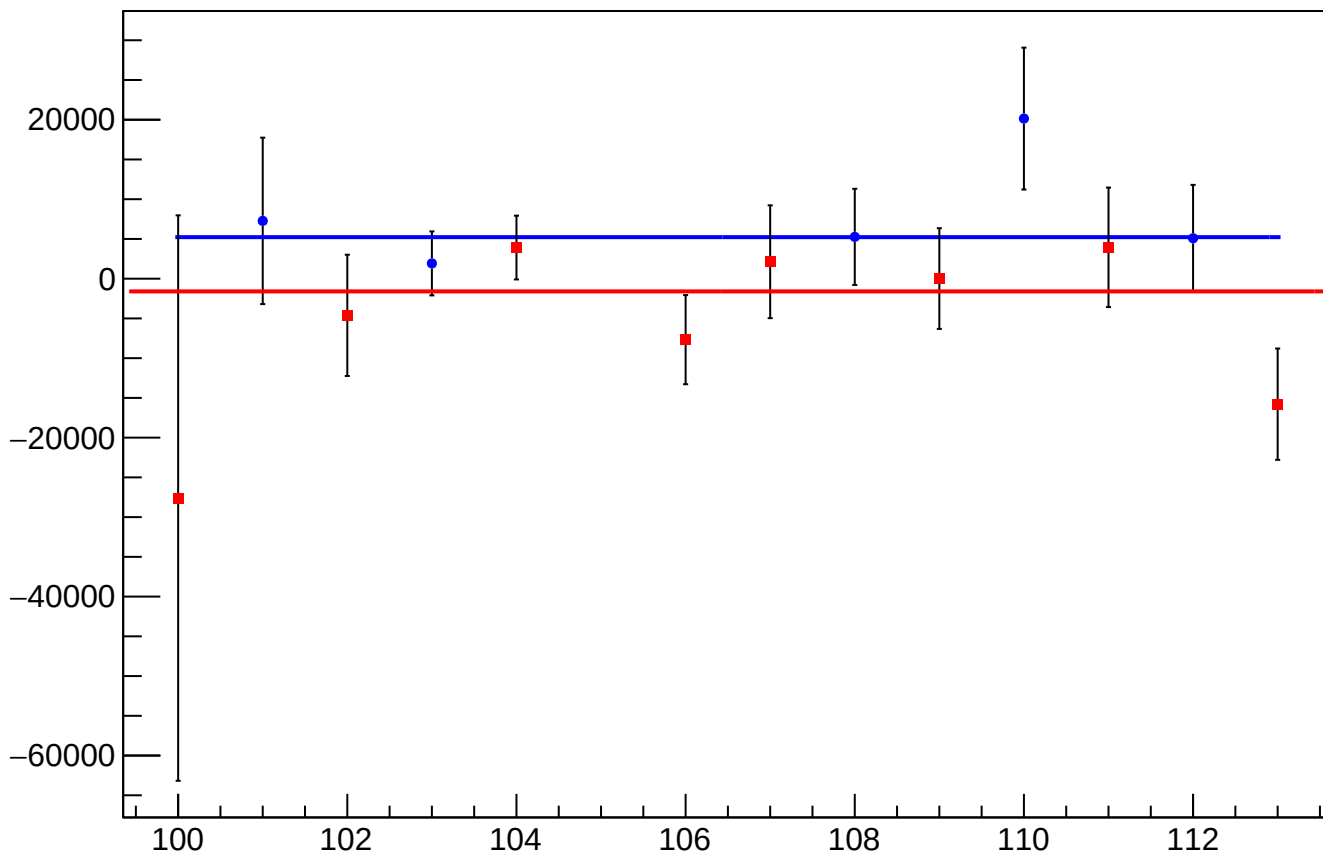
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3138.191 $\pm$ 1.011  $\chi^2$ /NDF: 1789903.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_atr\_avg\_mean vs Slug



Right In: 5226.445+/-2742.962  $\chi^2/\text{NDF}$ : 3.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1597.975+/-2266.101  $\chi^2/\text{NDF}$ : 8.7/7

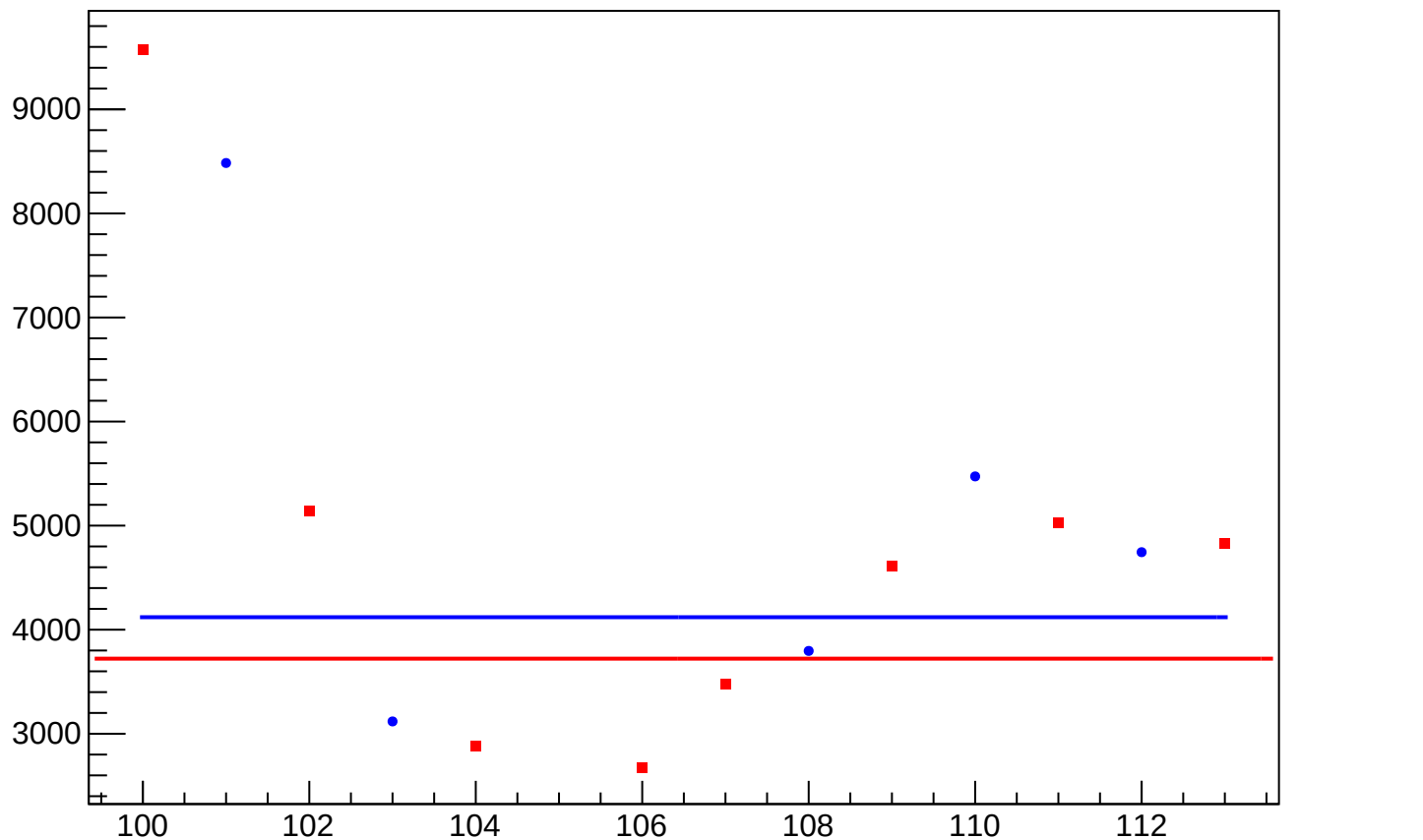
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1170.387+/-1747.022  $\chi^2/\text{NDF}$ : 15.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_rms vs Slug



Right In: 4119.894+/-1.940  $\chi^2/\text{NDF}$ : 540349.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3721.687+/-1.577  $\chi^2/\text{NDF}$ : 445654.7/7

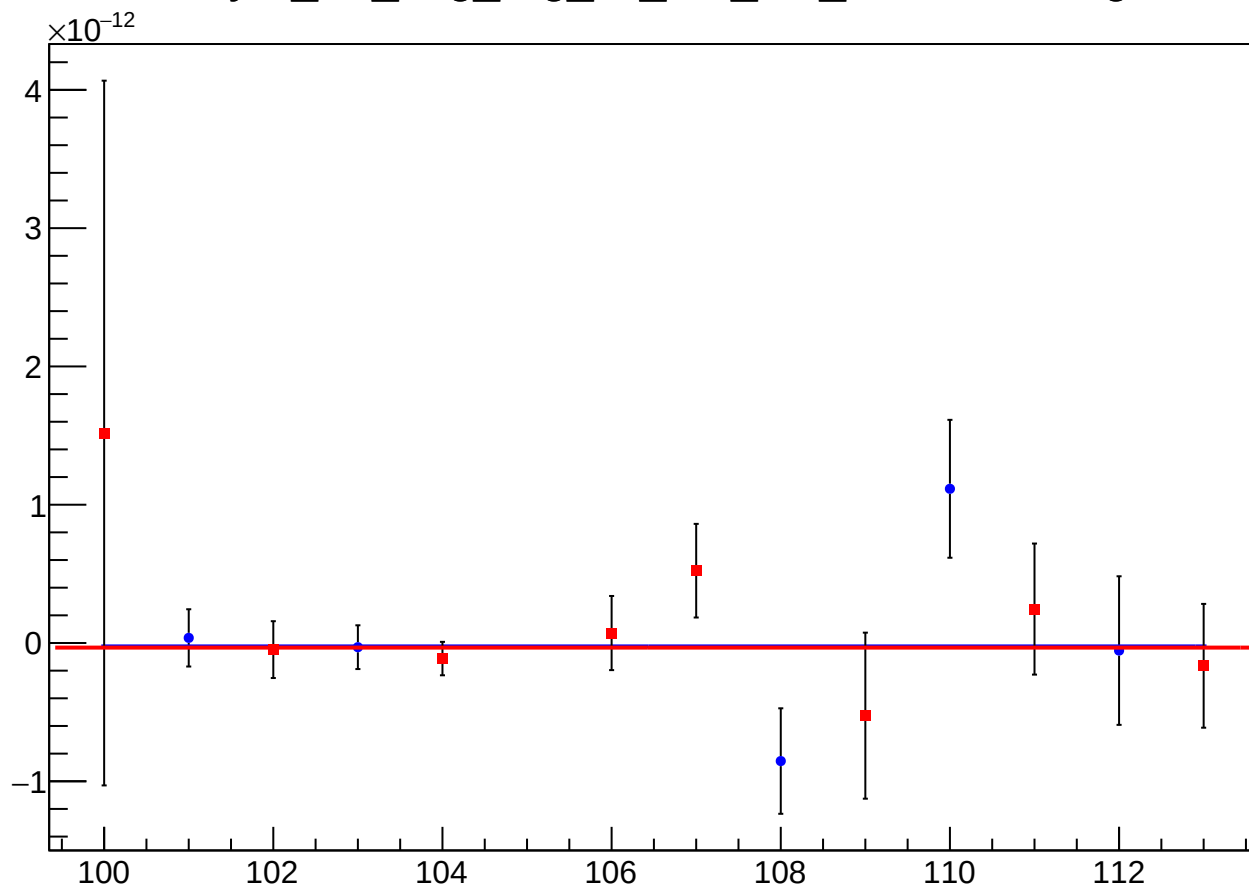
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3880.188+/-1.224  $\chi^2/\text{NDF}$ : 1011377.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.8/7

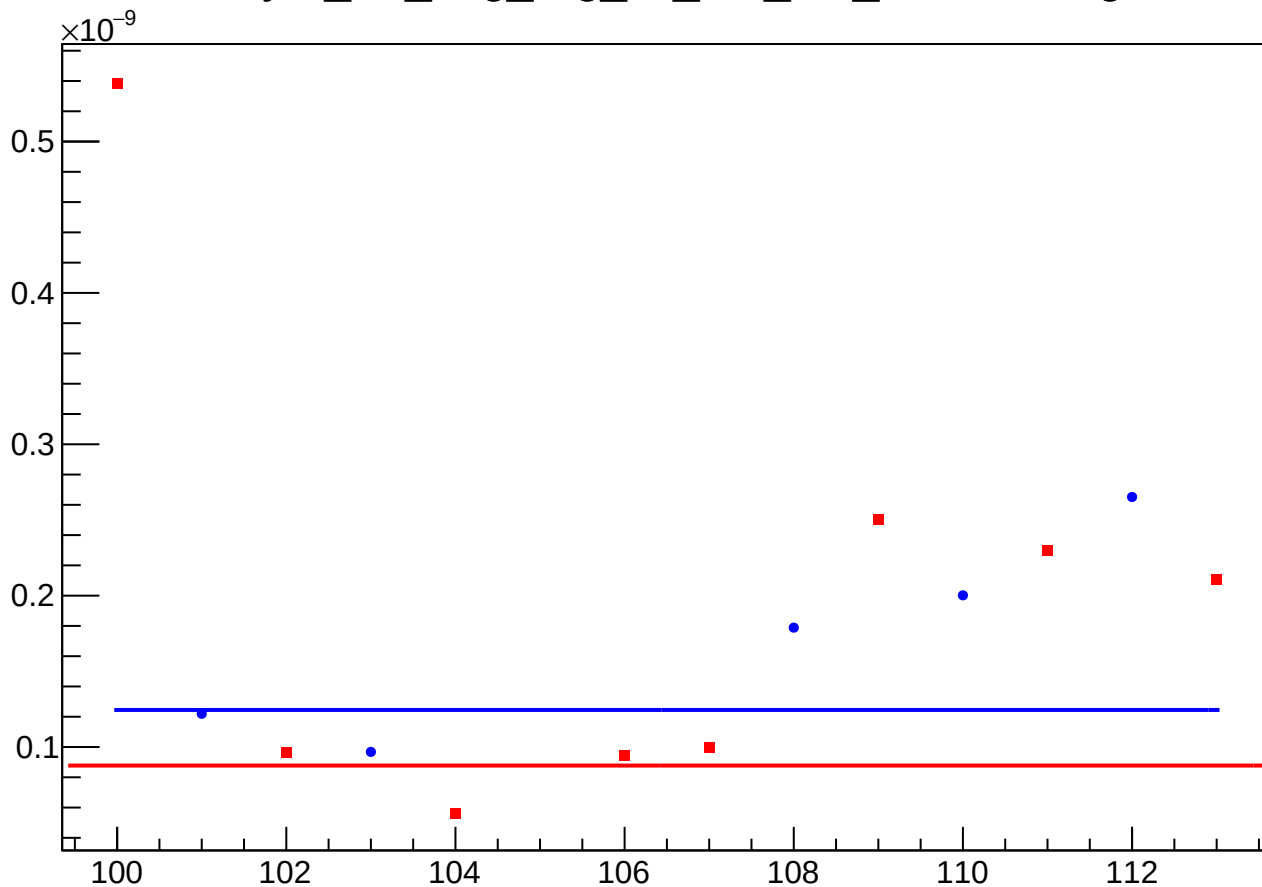
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 285574.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 684858.8/7

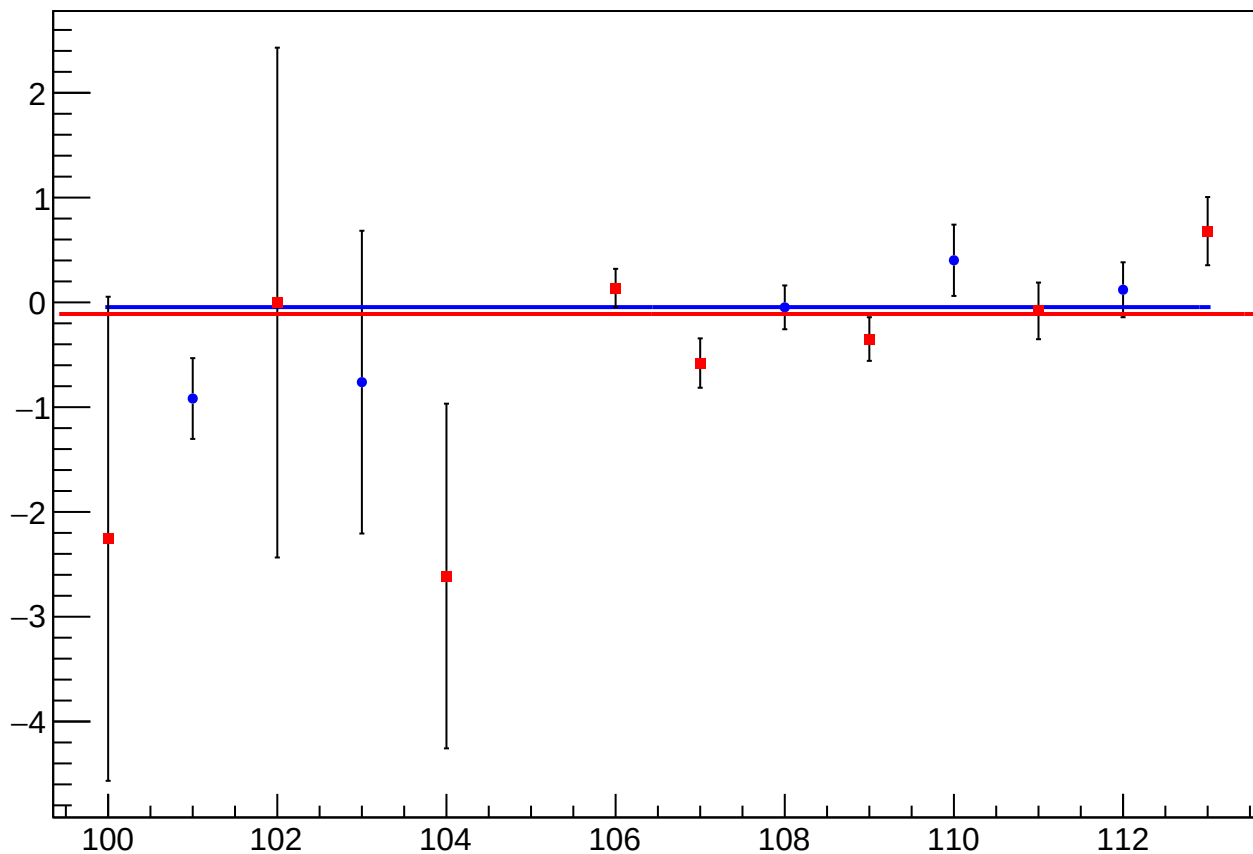
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1100472.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.045 \pm 0.137$   $\chi^2/\text{NDF}$ : 7.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.111 \pm 0.103$   $\chi^2/\text{NDF}$ : 16.2/7

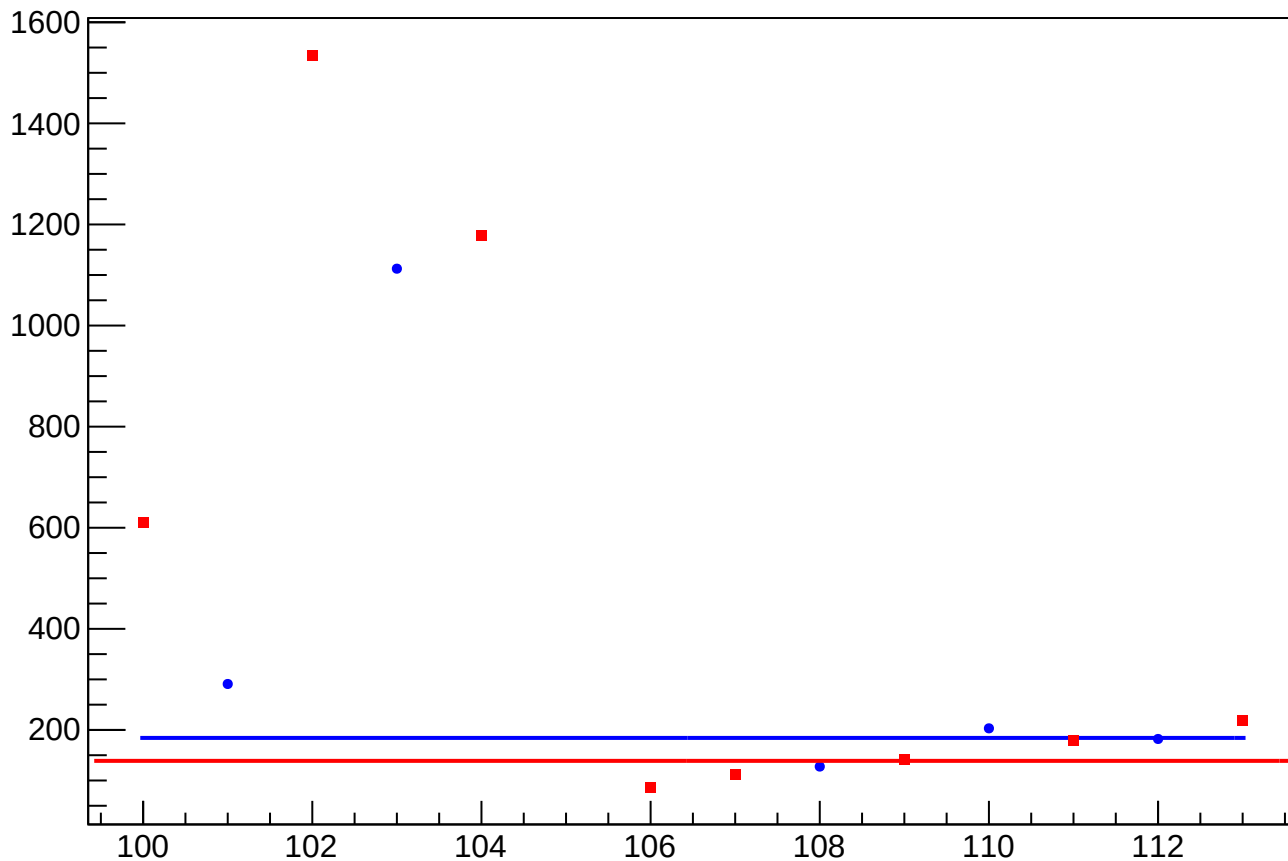
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.087 \pm 0.082$   $\chi^2/\text{NDF}$ : 23.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 184.232 $\pm$ 0.097  $\chi^2$ /NDF: 1132340.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 138.832 $\pm$ 0.073  $\chi^2$ /NDF: 1897574.2/7

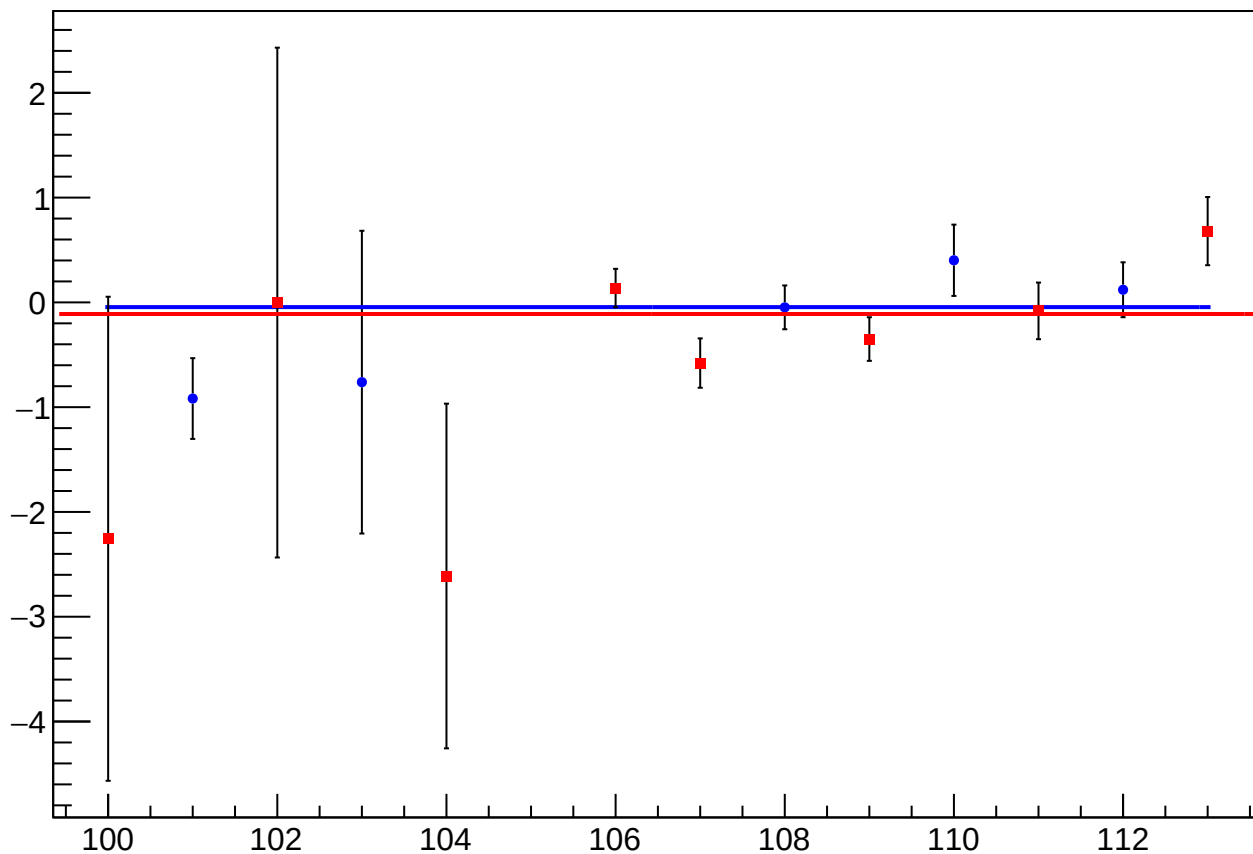
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 155.173 $\pm$ 0.058  $\chi^2$ /NDF: 3170541.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.045±/-0.137  $\chi^2/\text{NDF}$ : 7.5/4

Left Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.111±/-0.103  $\chi^2/\text{NDF}$ : 16.2/7

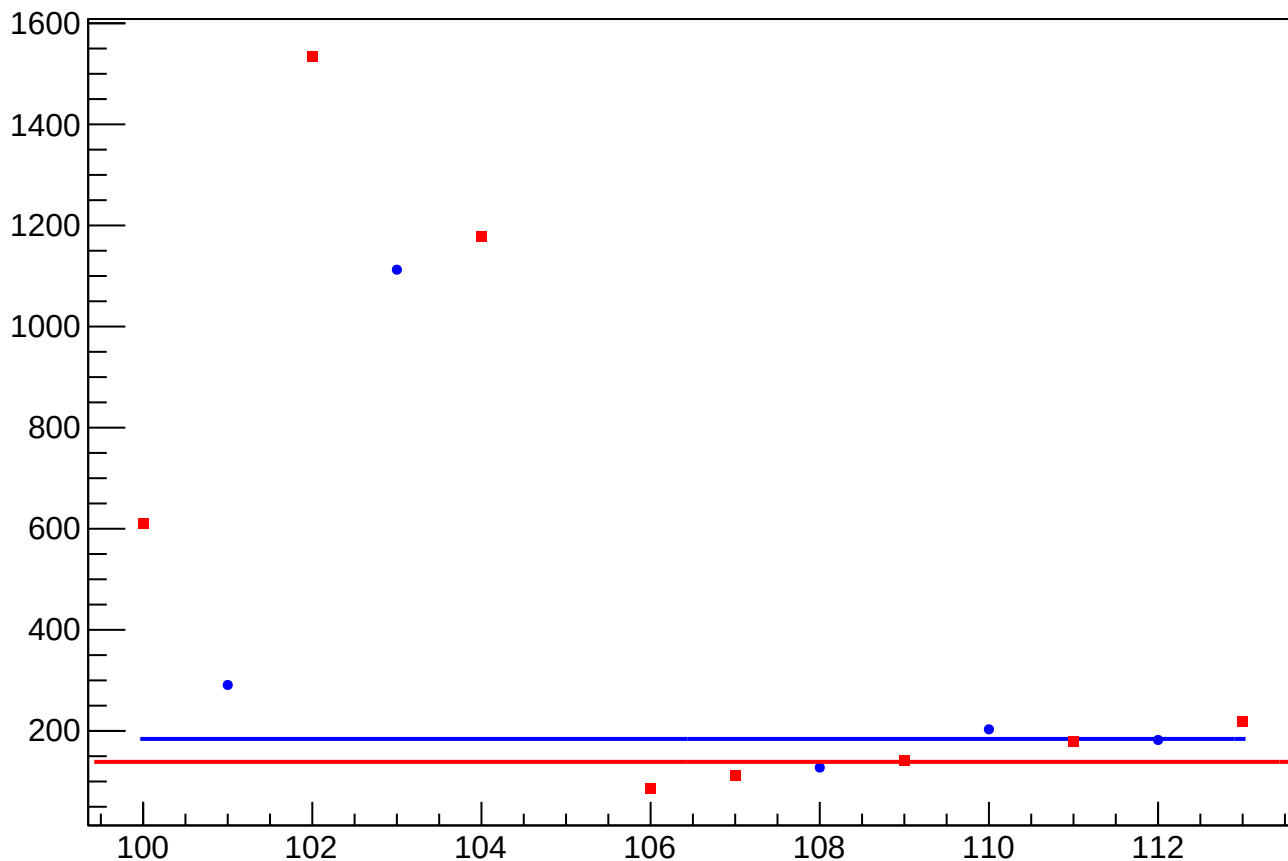
Left In: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.087±/-0.082  $\chi^2/\text{NDF}$ : 23.8/12

- sign 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 184.232+/-0.097  $\chi^2/\text{NDF}$ : 1132340.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 138.832+/-0.073  $\chi^2/\text{NDF}$ : 1897574.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

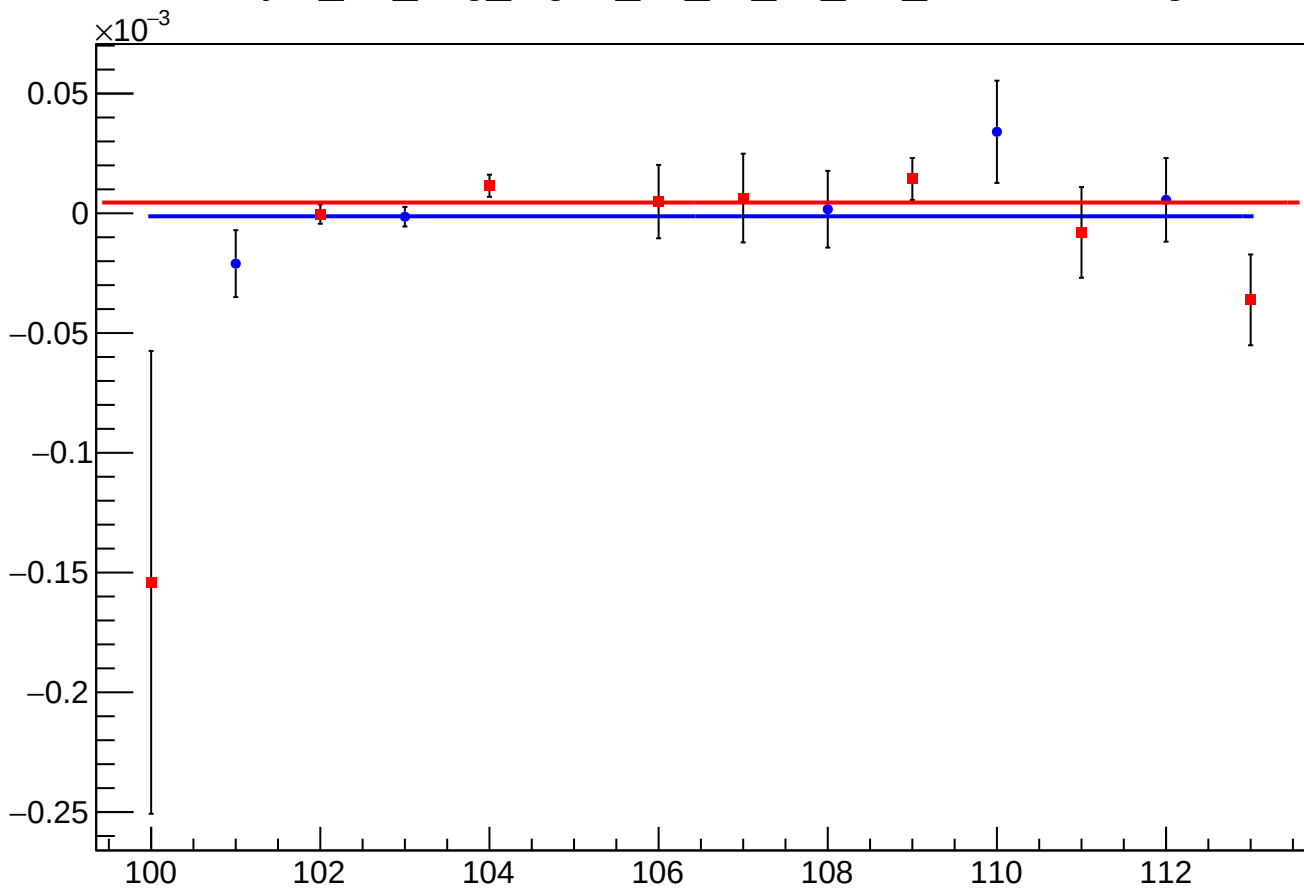
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 155.173+/-0.058  $\chi^2/\text{NDF}$ : 3170541.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atr\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.7/7

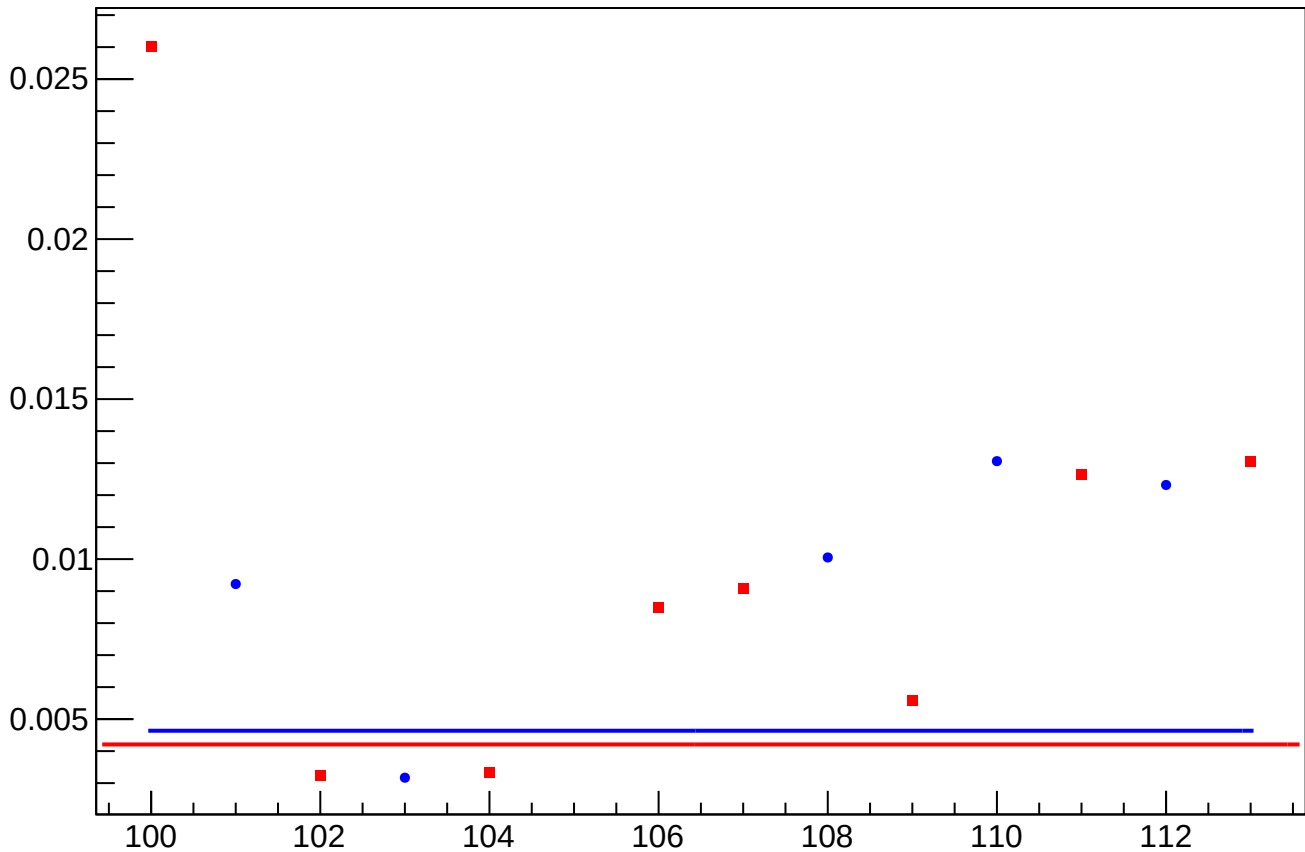
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1402101.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 1466246.7/7

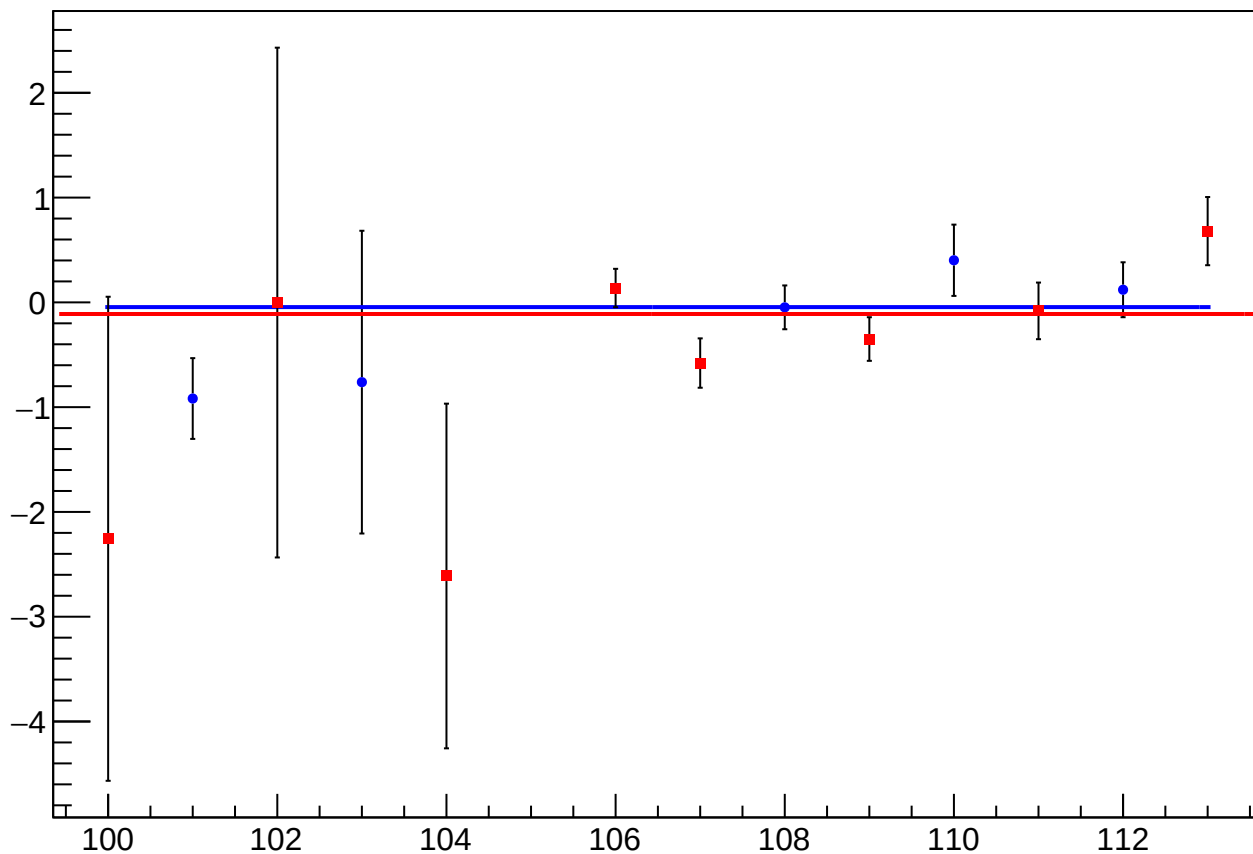
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 2885956.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.045 \pm 0.137$   $\chi^2/\text{NDF}$ : 7.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.111 \pm 0.103$   $\chi^2/\text{NDF}$ : 16.2/7

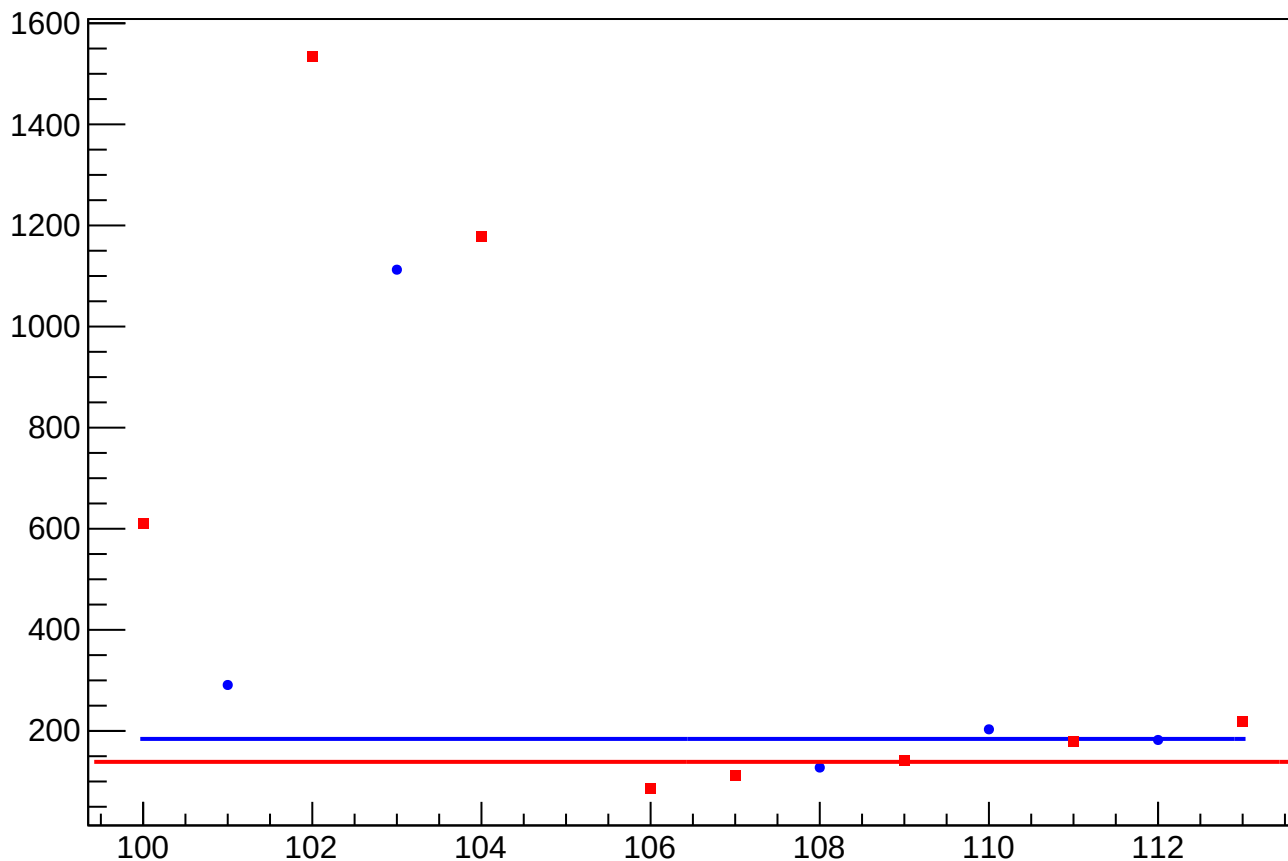
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.087 \pm 0.082$   $\chi^2/\text{NDF}$ : 23.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 184.233+/-0.097  $\chi^2/\text{NDF}$ : 1132351.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 138.833+/-0.073  $\chi^2/\text{NDF}$ : 1897575.5/7

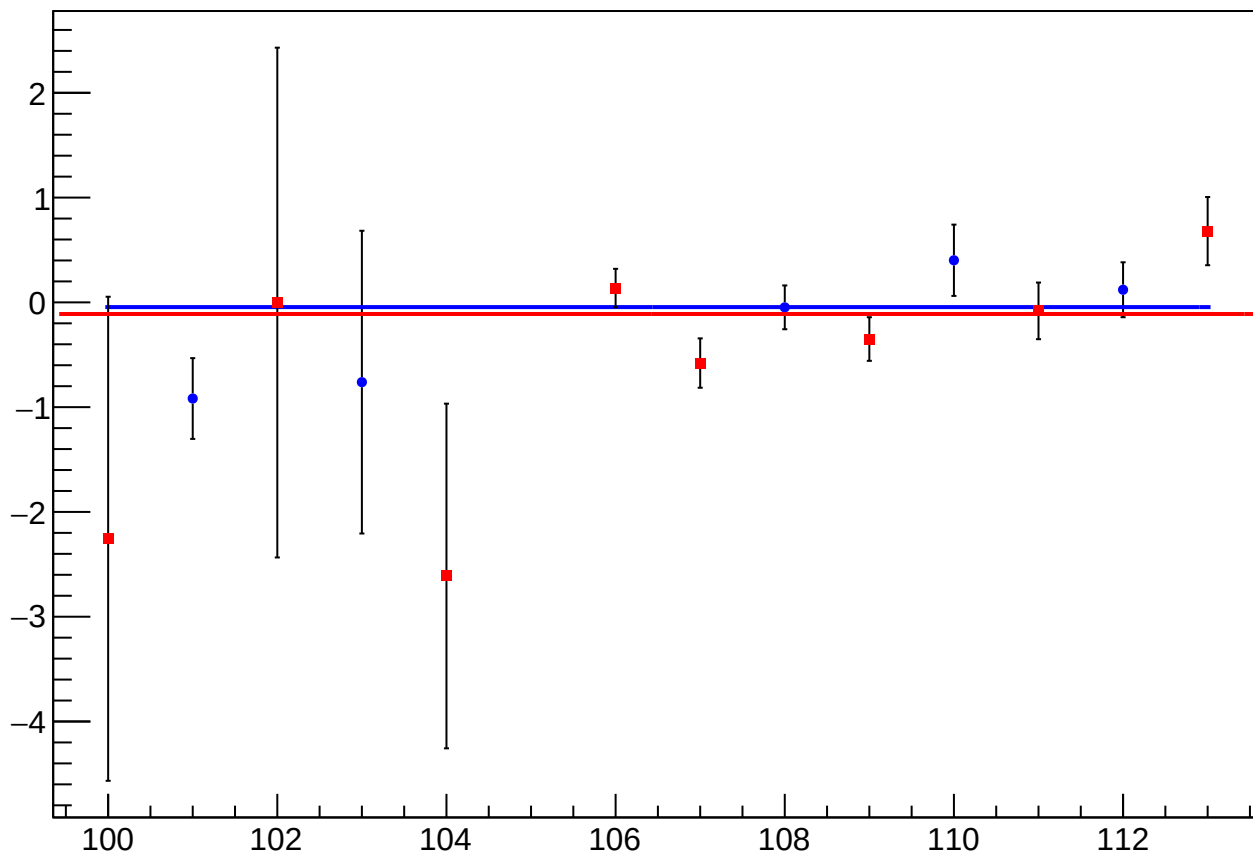
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 155.174+/-0.058  $\chi^2/\text{NDF}$ : 3170555.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.045 \pm 0.137$   $\chi^2/\text{NDF}$ : 7.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.111 \pm 0.103$   $\chi^2/\text{NDF}$ : 16.2/7

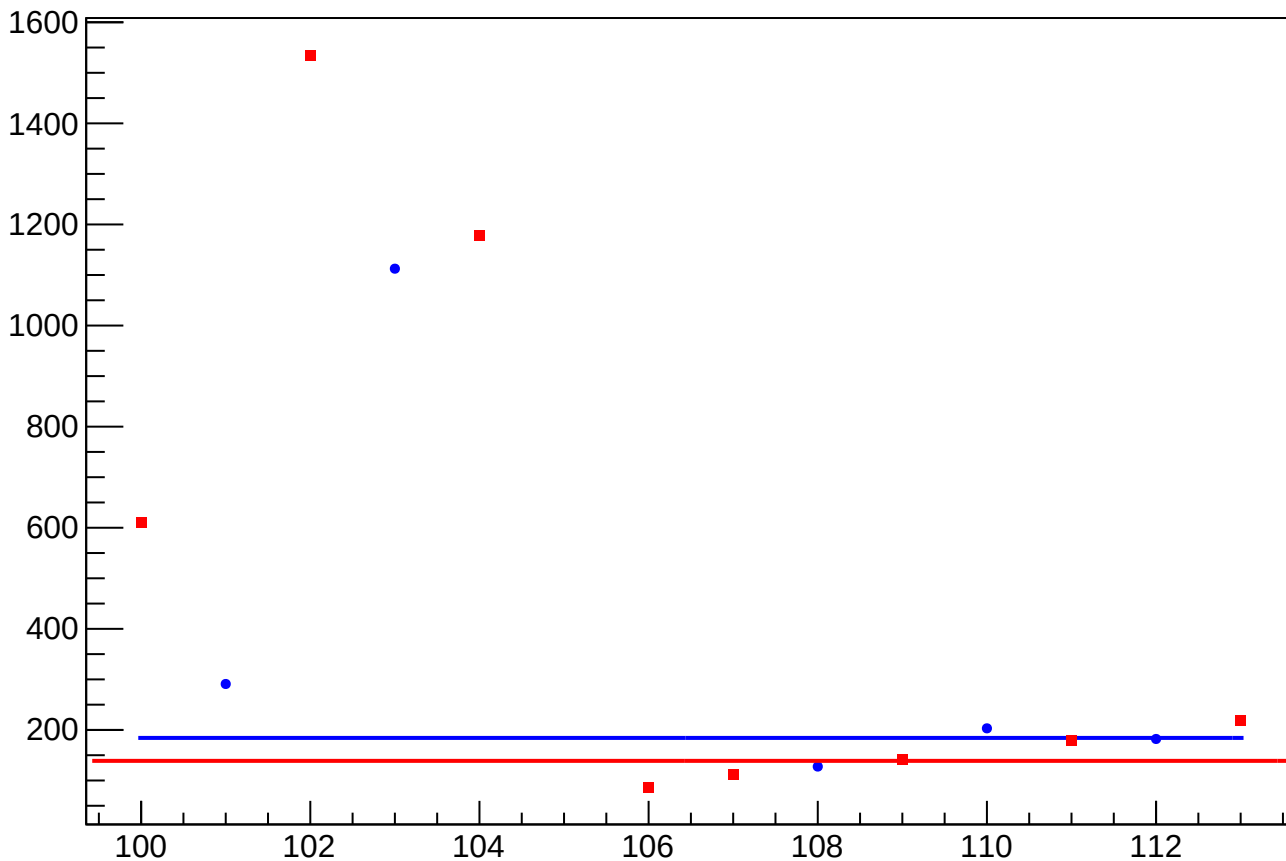
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.087 \pm 0.082$   $\chi^2/\text{NDF}$ : 23.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 184.233+/-0.097  $\chi^2/\text{NDF}$ : 1132351.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 138.833+/-0.073  $\chi^2/\text{NDF}$ : 1897575.5/7

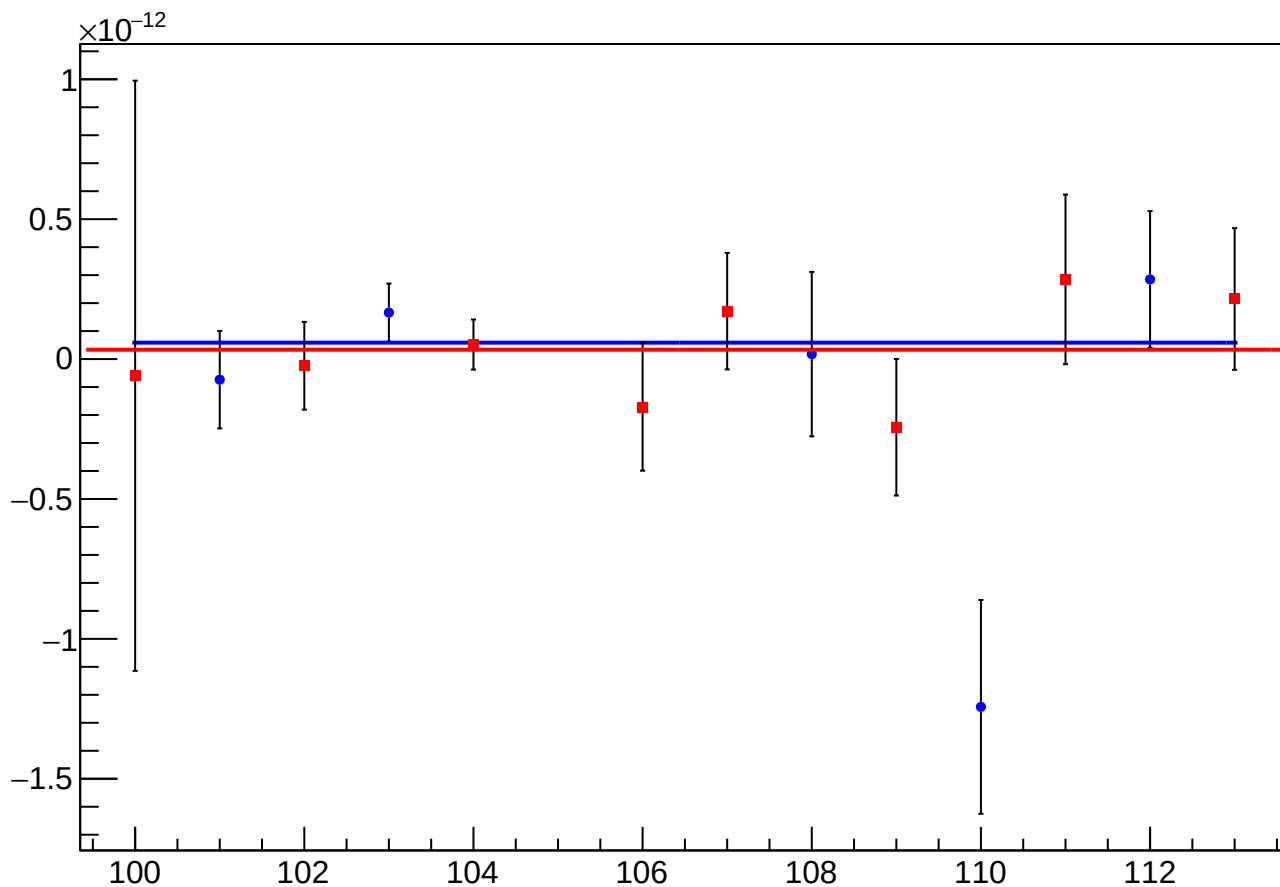
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 155.174+/-0.058  $\chi^2/\text{NDF}$ : 3170555.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 14.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 3.9/7

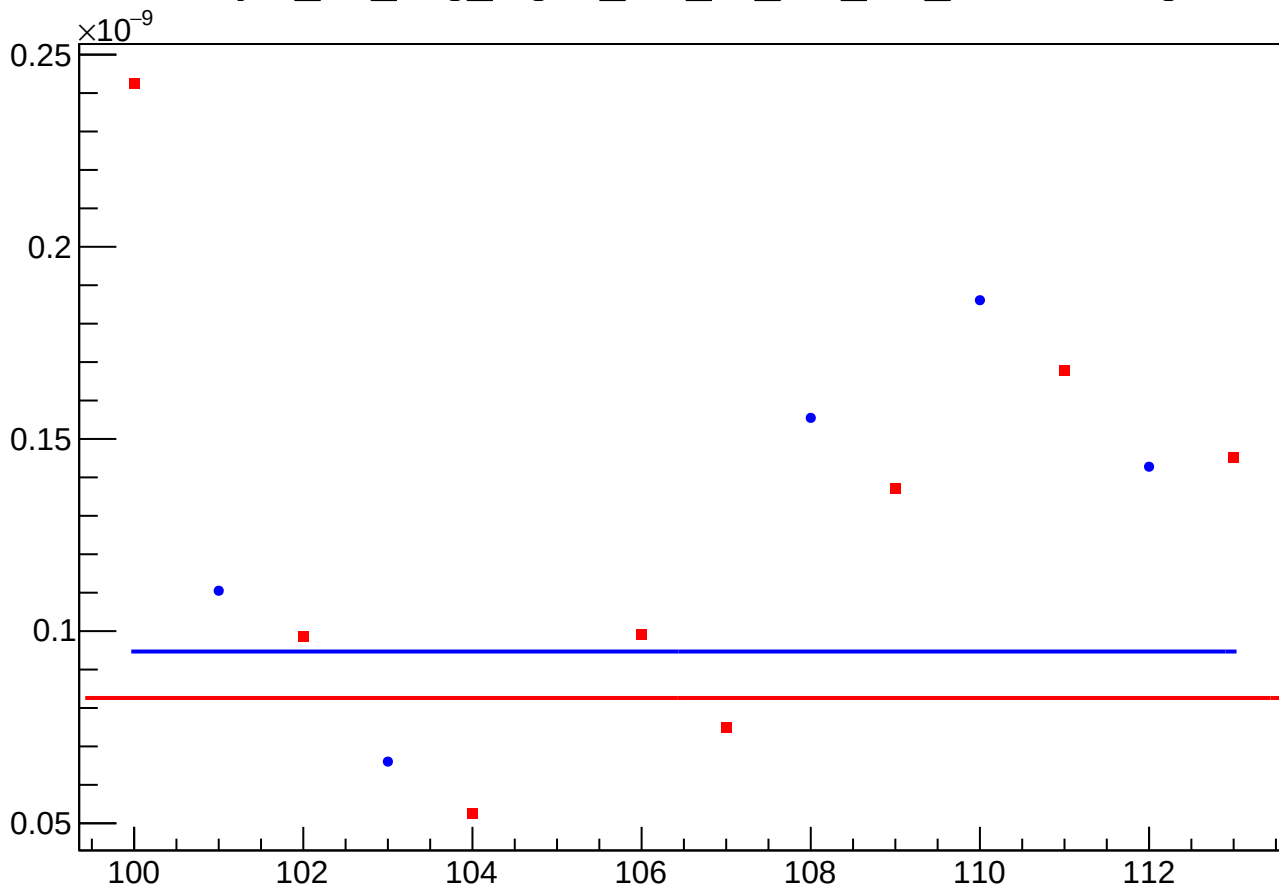
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 18.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 446382.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 685735.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

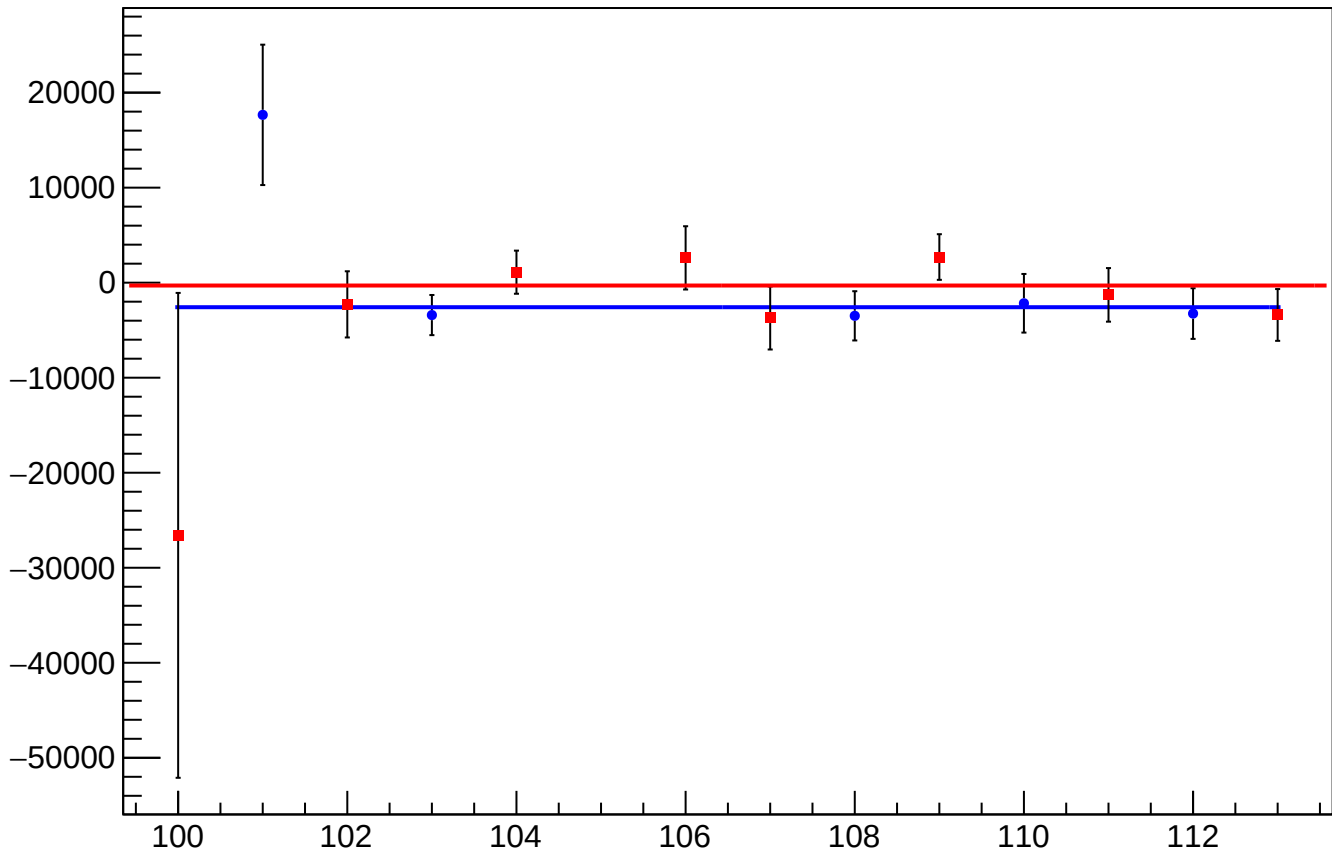
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1160825.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr\_dd\_mean vs Slug



Right In: -2581.620+/-1252.811  $\chi^2/\text{NDF}$ : 7.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -299.895+/-1058.086  $\chi^2/\text{NDF}$ : 6.6/7

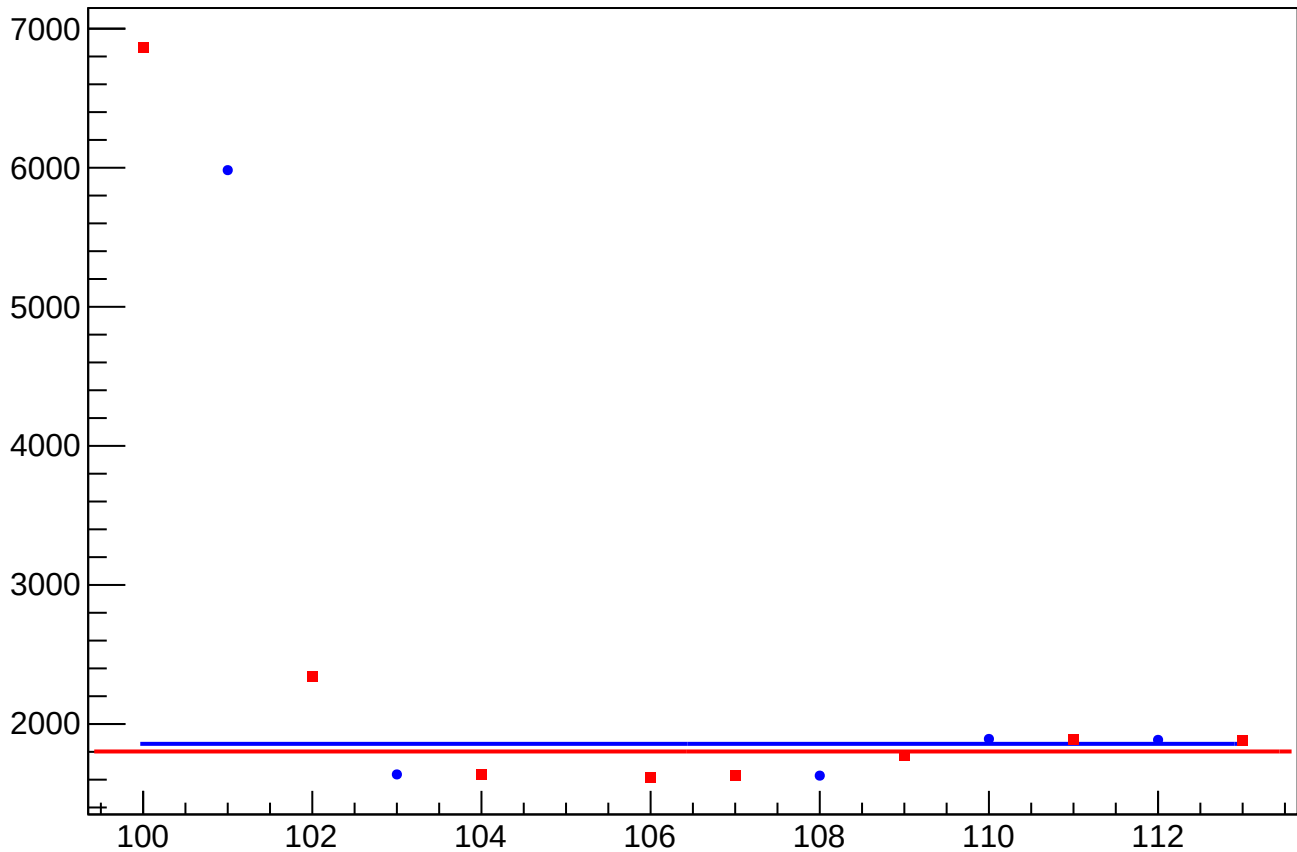
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1249.846+/-808.359  $\chi^2/\text{NDF}$ : 16.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_rms vs Slug



Right In: 1857.555+/-0.886  $\chi^2/\text{NDF}$ : 661436.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1802.611+/-0.742  $\chi^2/\text{NDF}$ : 154708.7/7

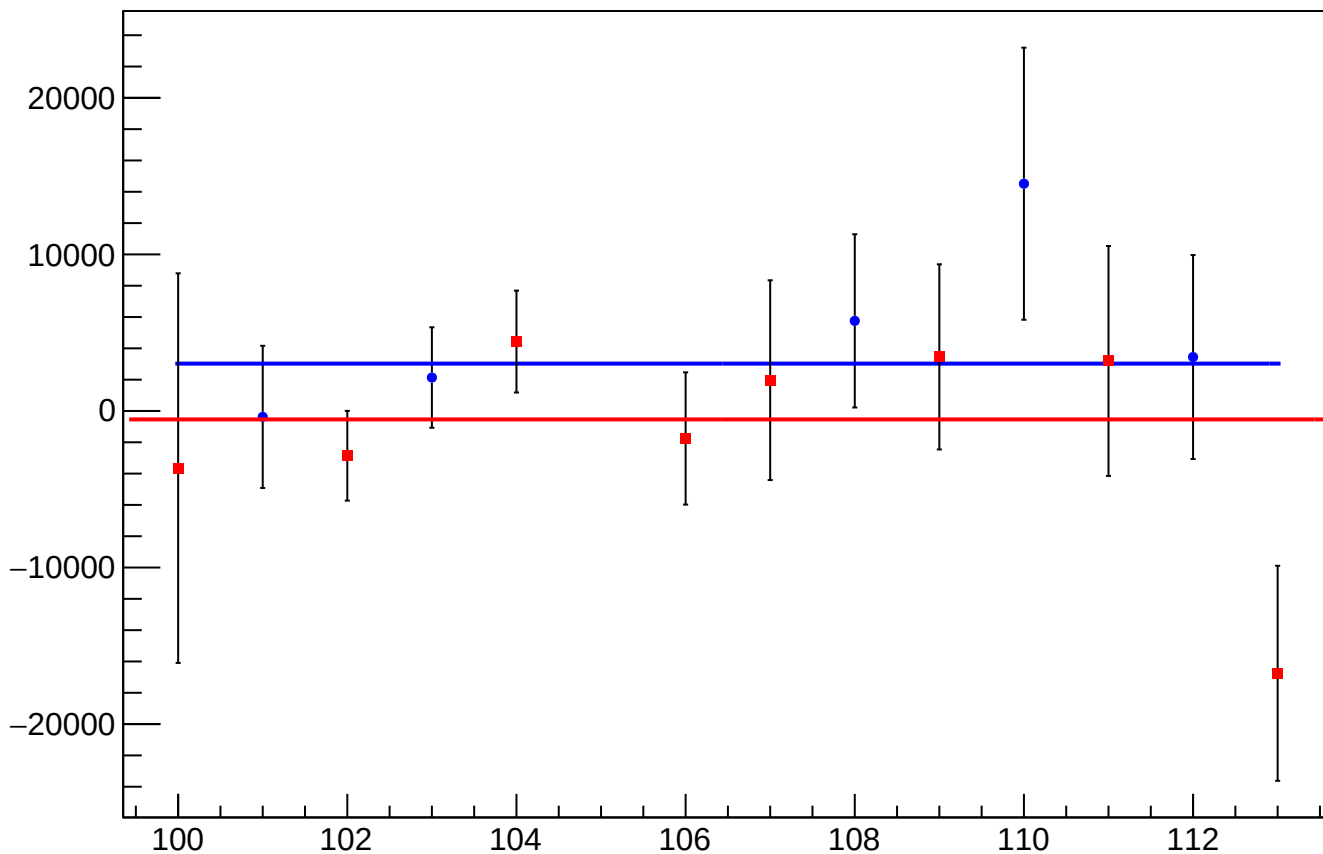
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1825.282+/-0.569  $\chi^2/\text{NDF}$ : 818405.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_reg\_correction\_mean vs Slug



Right In: 3024.450+/-2155.872  $\chi^2/\text{NDF}$ : 2.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -539.647+/-1640.558  $\chi^2/\text{NDF}$ : 9.6/7

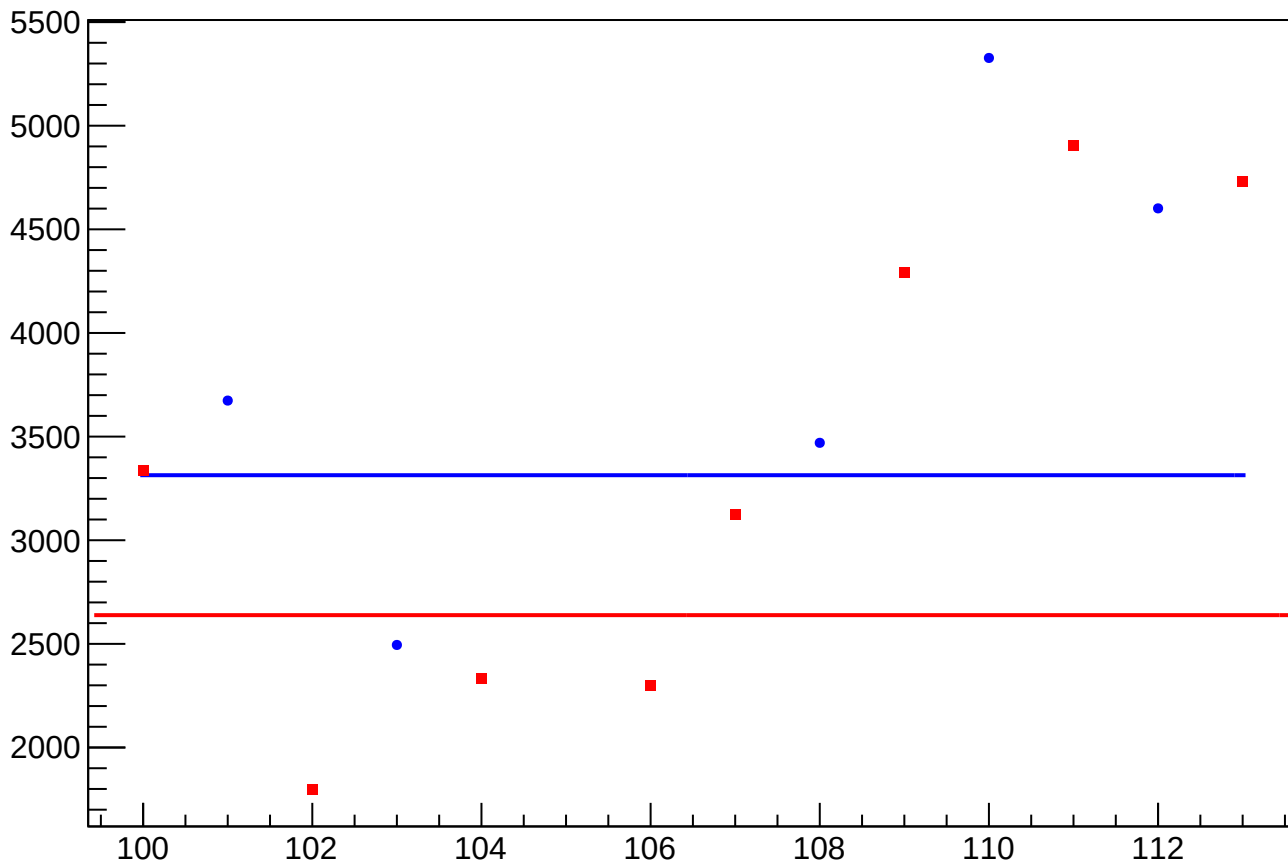
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 767.376+/-1305.539  $\chi^2/\text{NDF}$ : 13.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_reg\_correction\_rms vs Slug



Right In: 3313.767 $\pm$ 1.524  $\chi^2$ /NDF: 329962.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

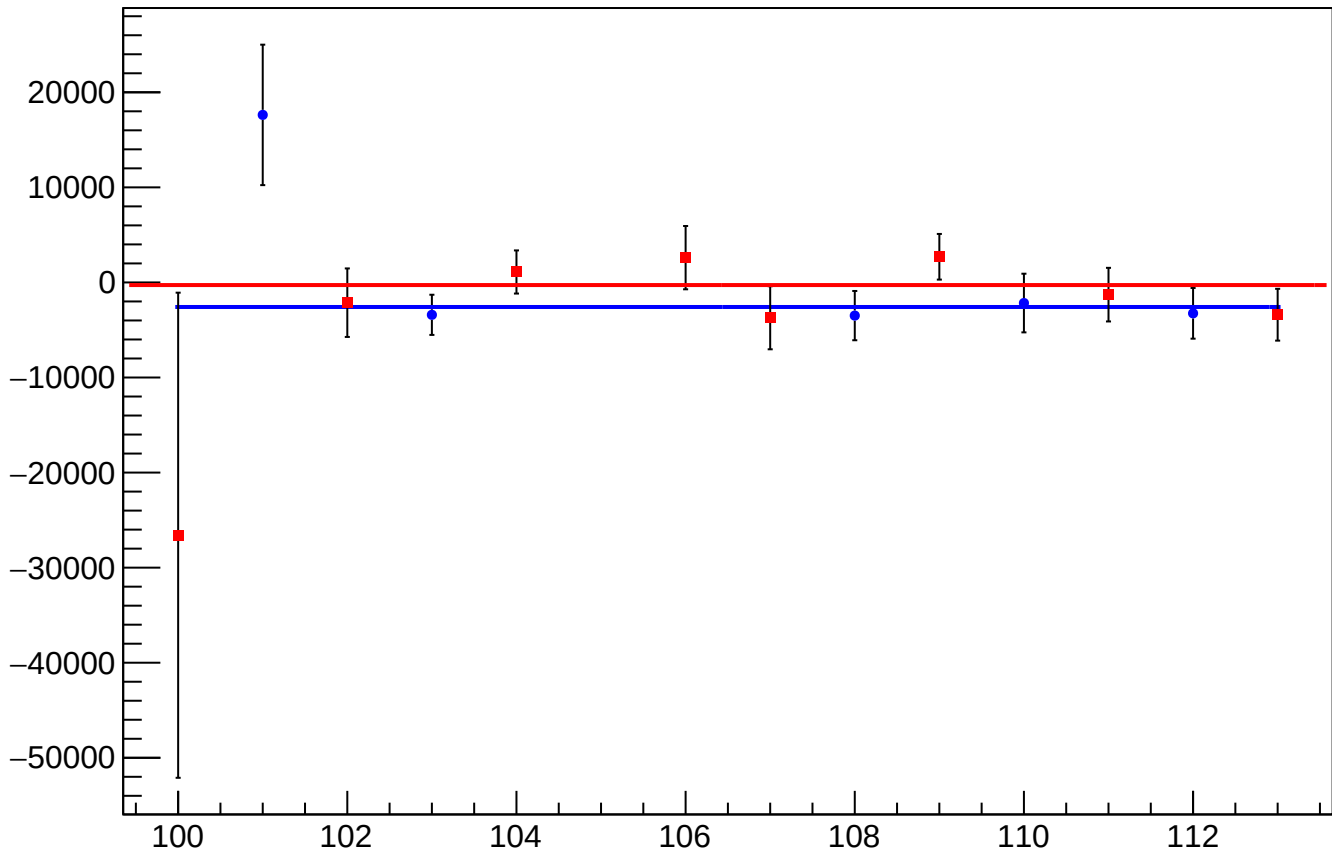
Right Out: 2638.586 $\pm$ 1.160  $\chi^2$ /NDF: 753243.4/7

All: 2886.188 $\pm$ 0.923  $\chi^2$ /NDF: 1207434.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atr\_dd\_mean vs Slug



Right In: -2582.476+/-1252.812  $\chi^2/\text{NDF}$ : 7.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -275.849+/-1061.330  $\chi^2/\text{NDF}$ : 6.5/7

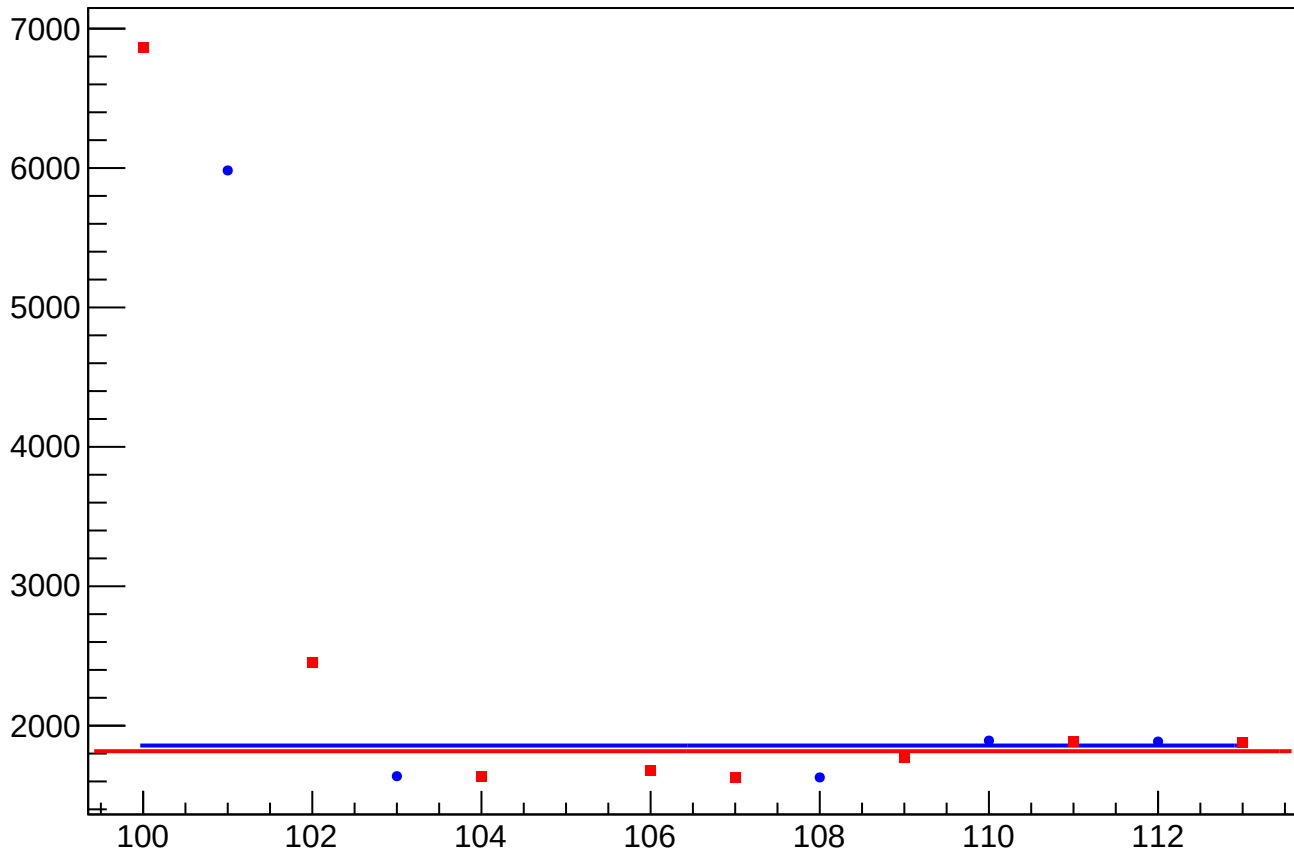
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1239.600+/-809.803  $\chi^2/\text{NDF}$ : 16.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atr\_dd\_rms vs Slug



Right In: 1857.555+/-0.886  $\chi^2/\text{NDF}$ : 661437.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1816.884+/-0.748  $\chi^2/\text{NDF}$ : 167225.8/7

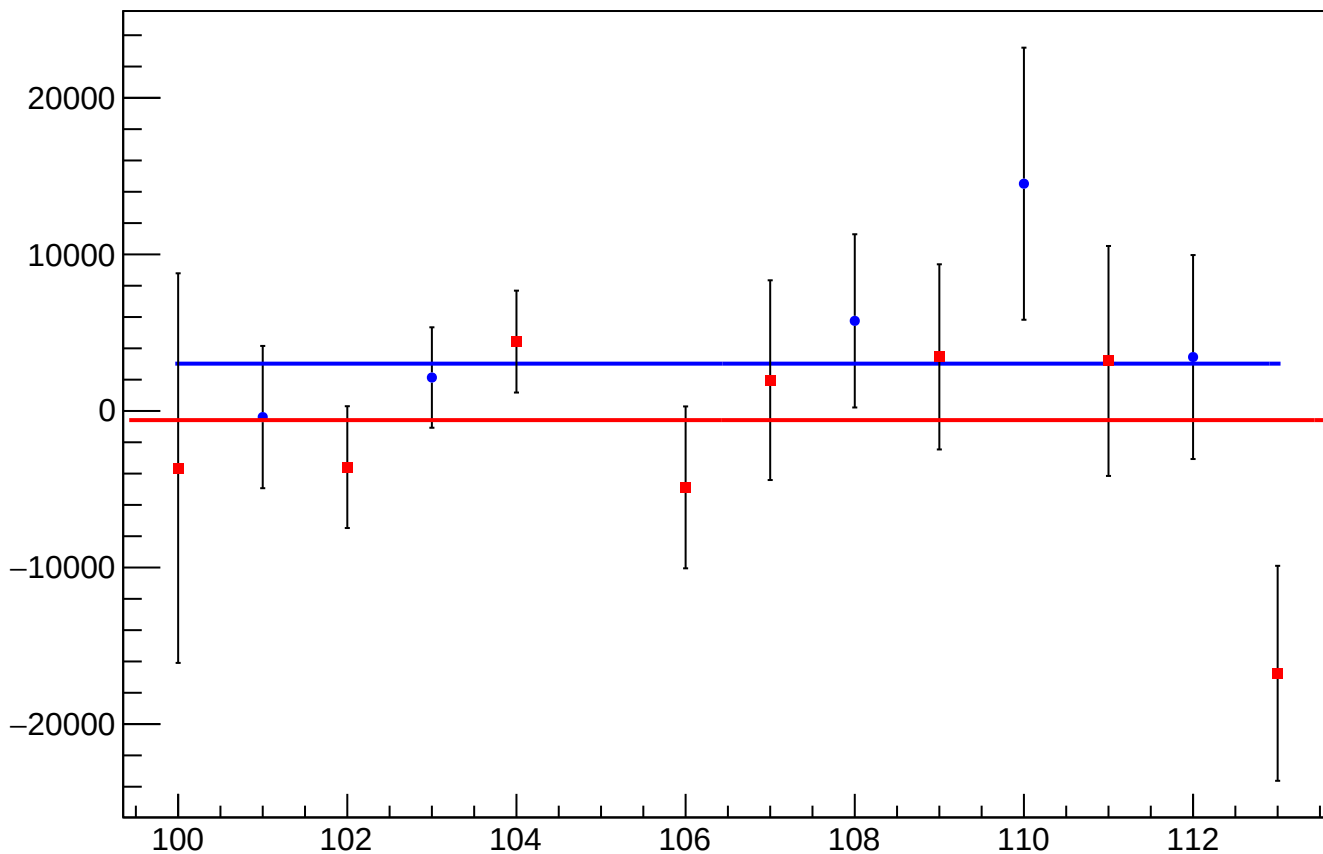
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1833.807+/-0.571  $\chi^2/\text{NDF}$ : 829893.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_cor\_correction\_mean vs Slug



Right In: 3022.796+/-2156.409  $\chi^2/\text{NDF}$ : 2.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -584.257+/-1834.034  $\chi^2/\text{NDF}$ : 10.2/7

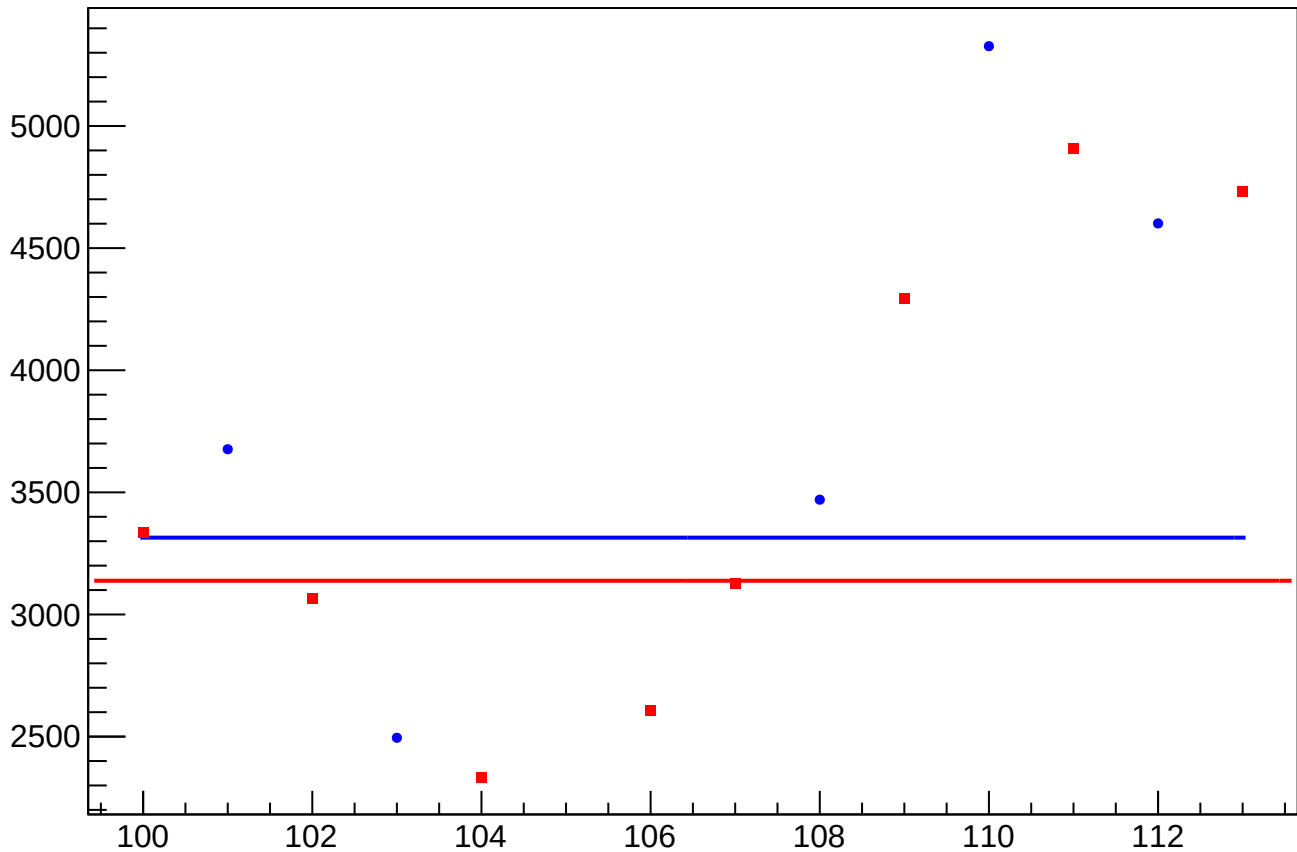
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 929.757+/-1397.075  $\chi^2/\text{NDF}$ : 14.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_cor\_correction\_rms vs Slug



Right In: 3314.627 $\pm$ 1.525  $\chi^2$ /NDF: 329943.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3138.146 $\pm$ 1.297  $\chi^2$ /NDF: 444097.4/7

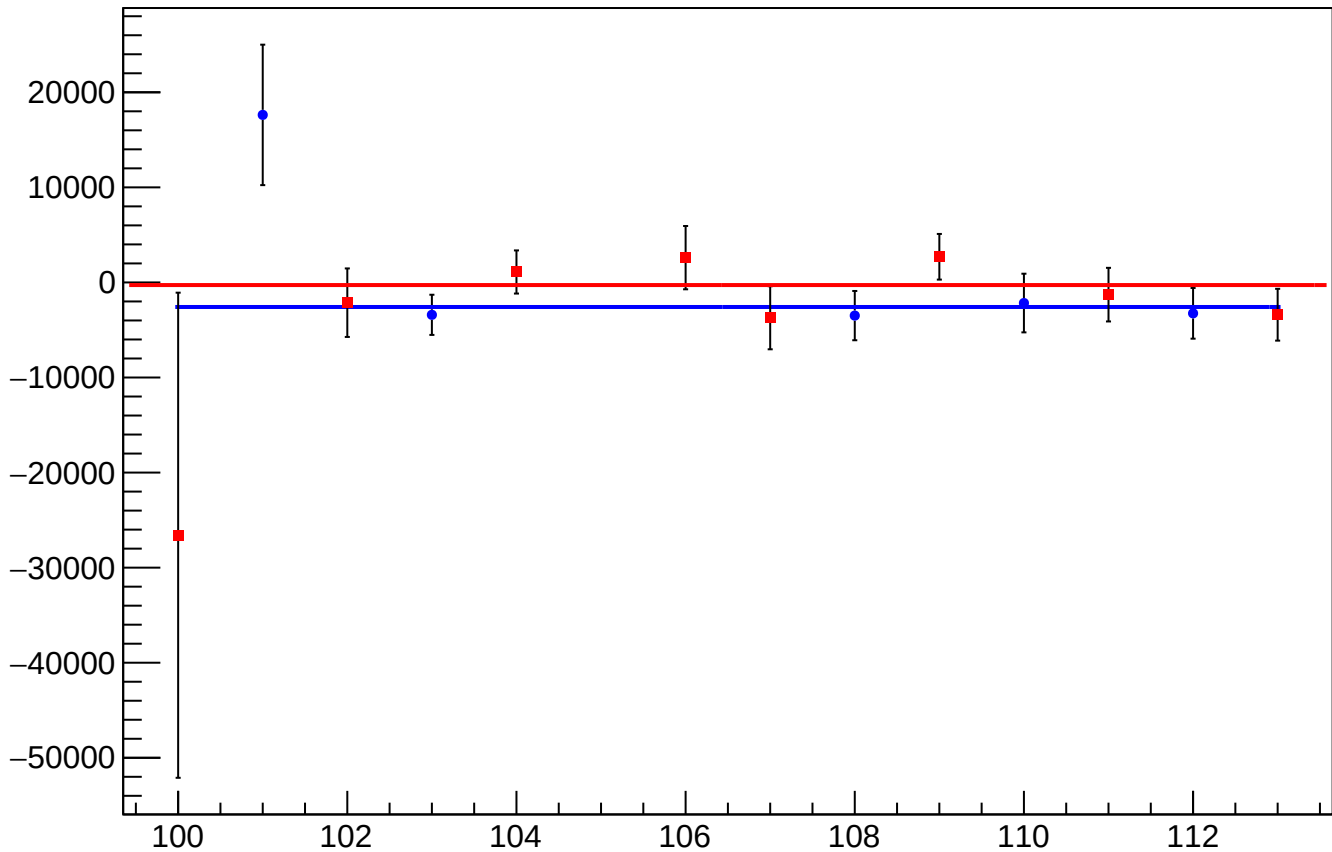
All: 3212.222 $\pm$ 0.988  $\chi^2$ /NDF: 781814.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_cor\_asym\_atr\_dd\_mean vs Slug



Right In: -2582.476+/-1252.812  $\chi^2$ /NDF: 7.8/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -275.849+/-1061.330  $\chi^2$ /NDF: 6.5/7

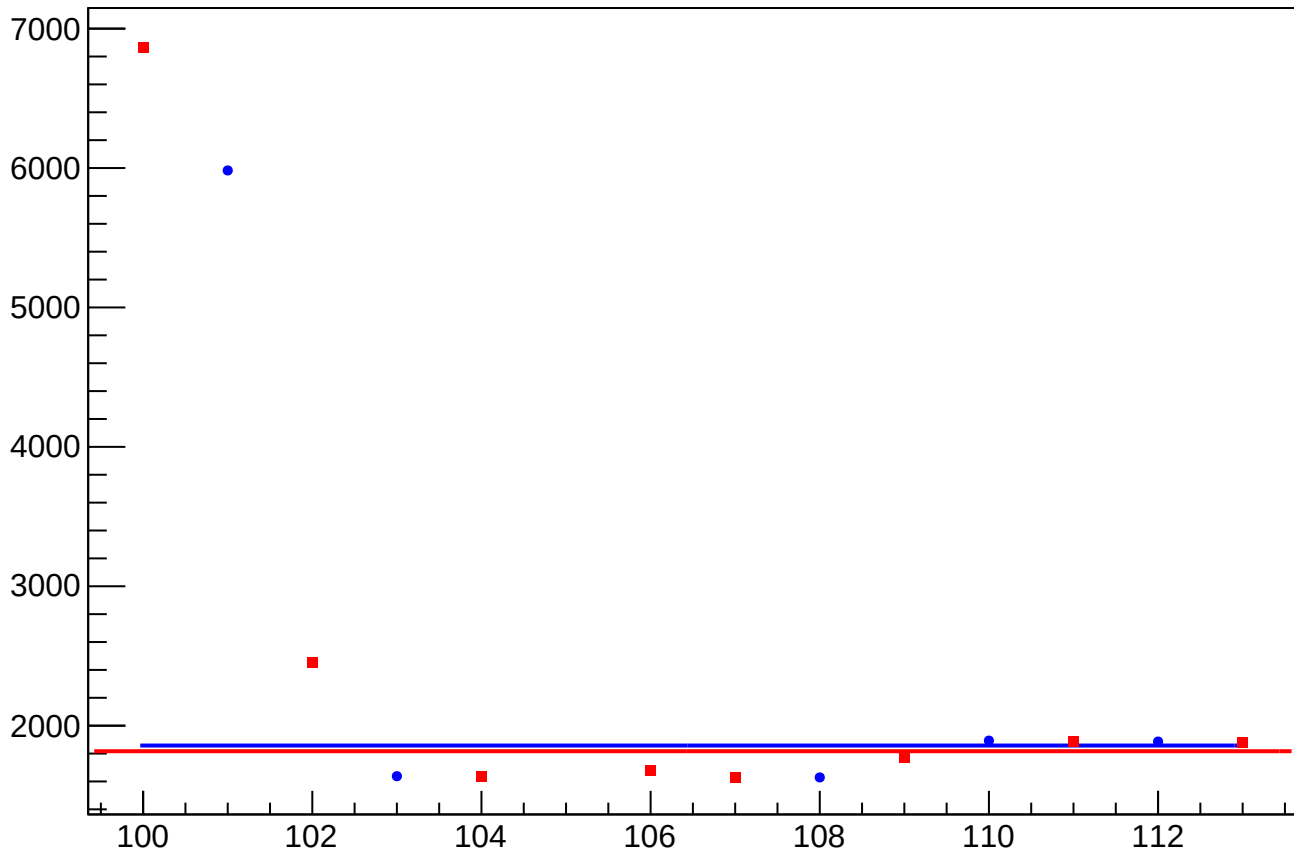
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1239.600+/-809.803  $\chi^2$ /NDF: 16.3/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atr\_dd\_rms vs Slug



Right In: 1857.555+/-0.886  $\chi^2/\text{NDF}$ : 661437.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1816.884+/-0.748  $\chi^2/\text{NDF}$ : 167225.8/7

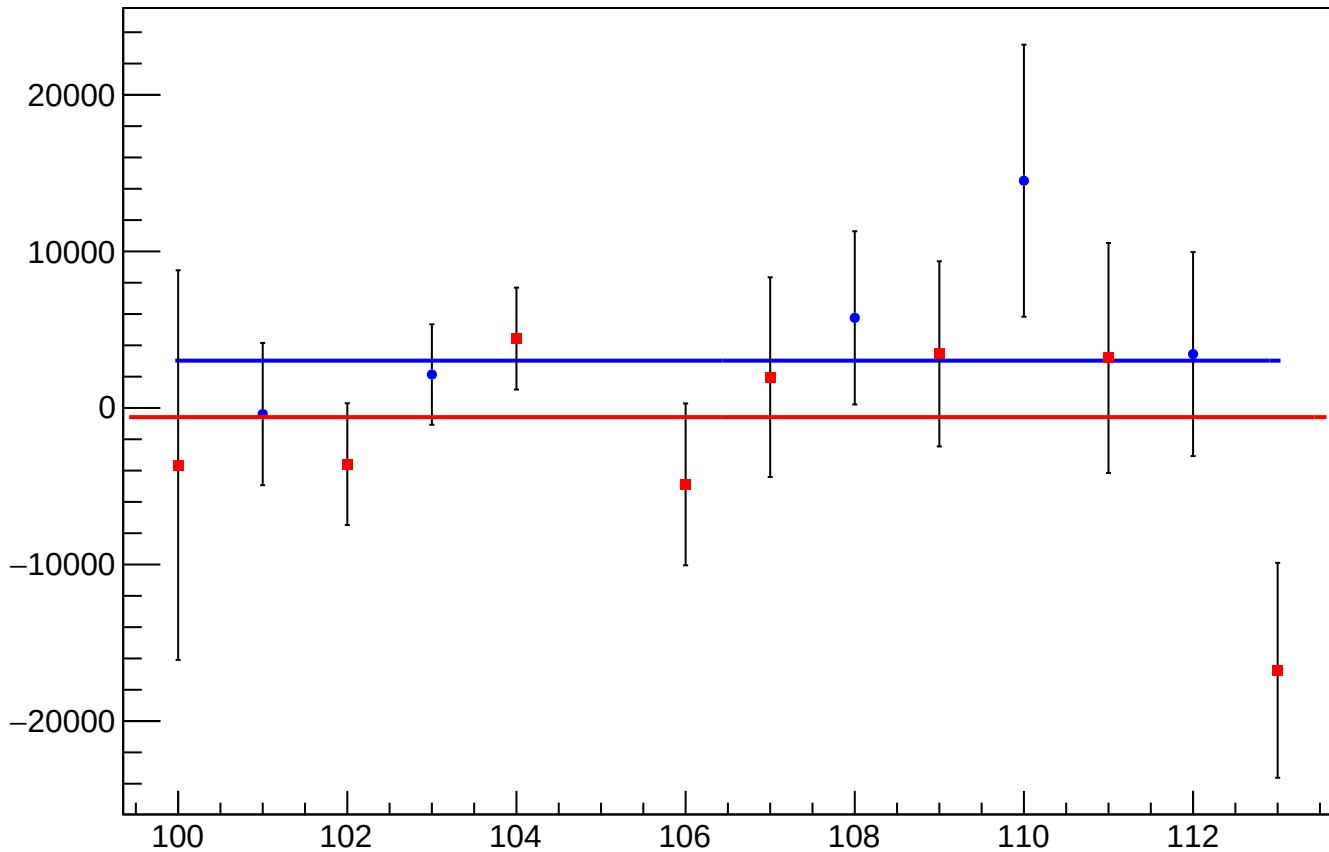
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1833.807+/-0.571  $\chi^2/\text{NDF}$ : 829893.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 3022.796+/-2156.409  $\chi^2/\text{NDF}$ : 2.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -584.257+/-1834.034  $\chi^2/\text{NDF}$ : 10.2/7

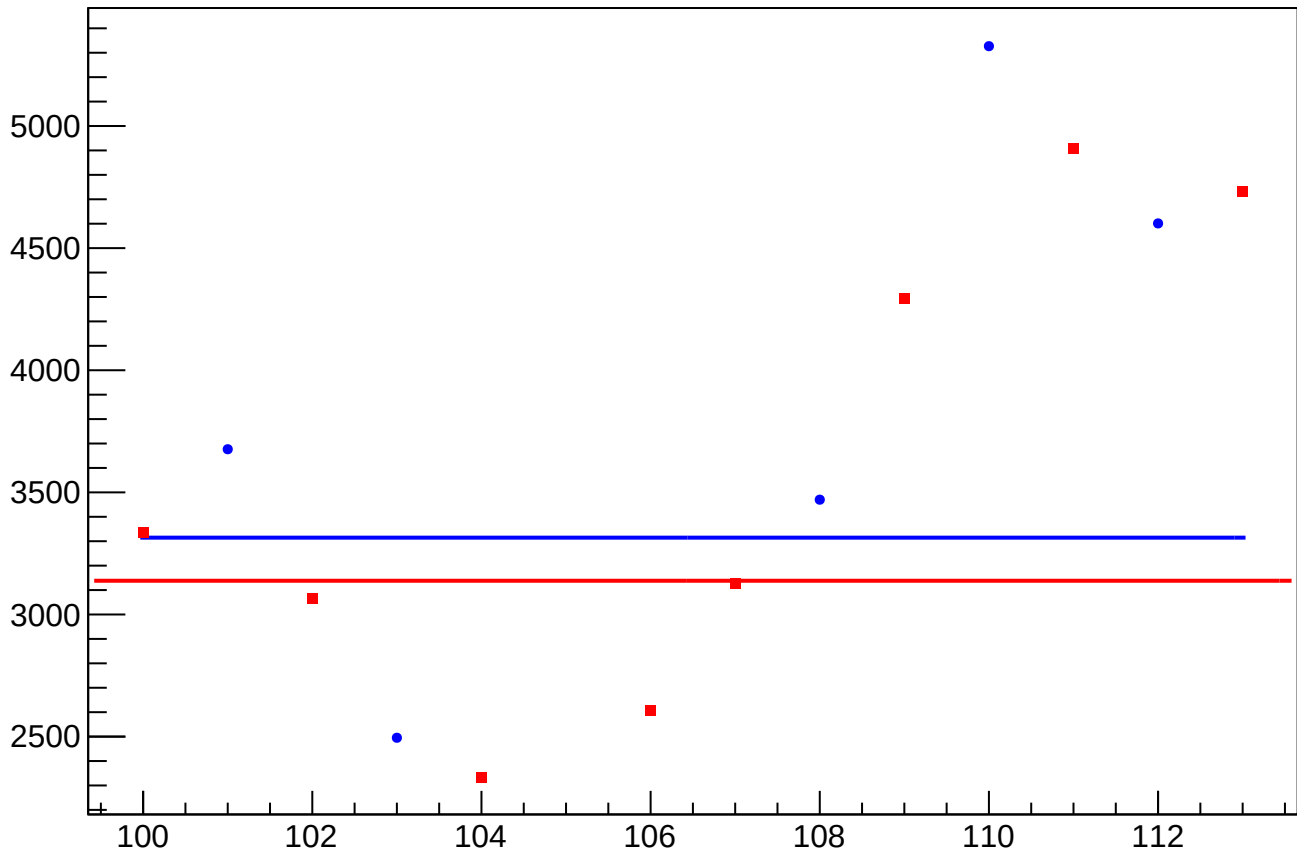
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 929.757+/-1397.075  $\chi^2/\text{NDF}$ : 14.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3314.627 $\pm$ 1.525  $\chi^2$ /NDF: 329943.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3138.146 $\pm$ 1.297  $\chi^2$ /NDF: 444097.4/7

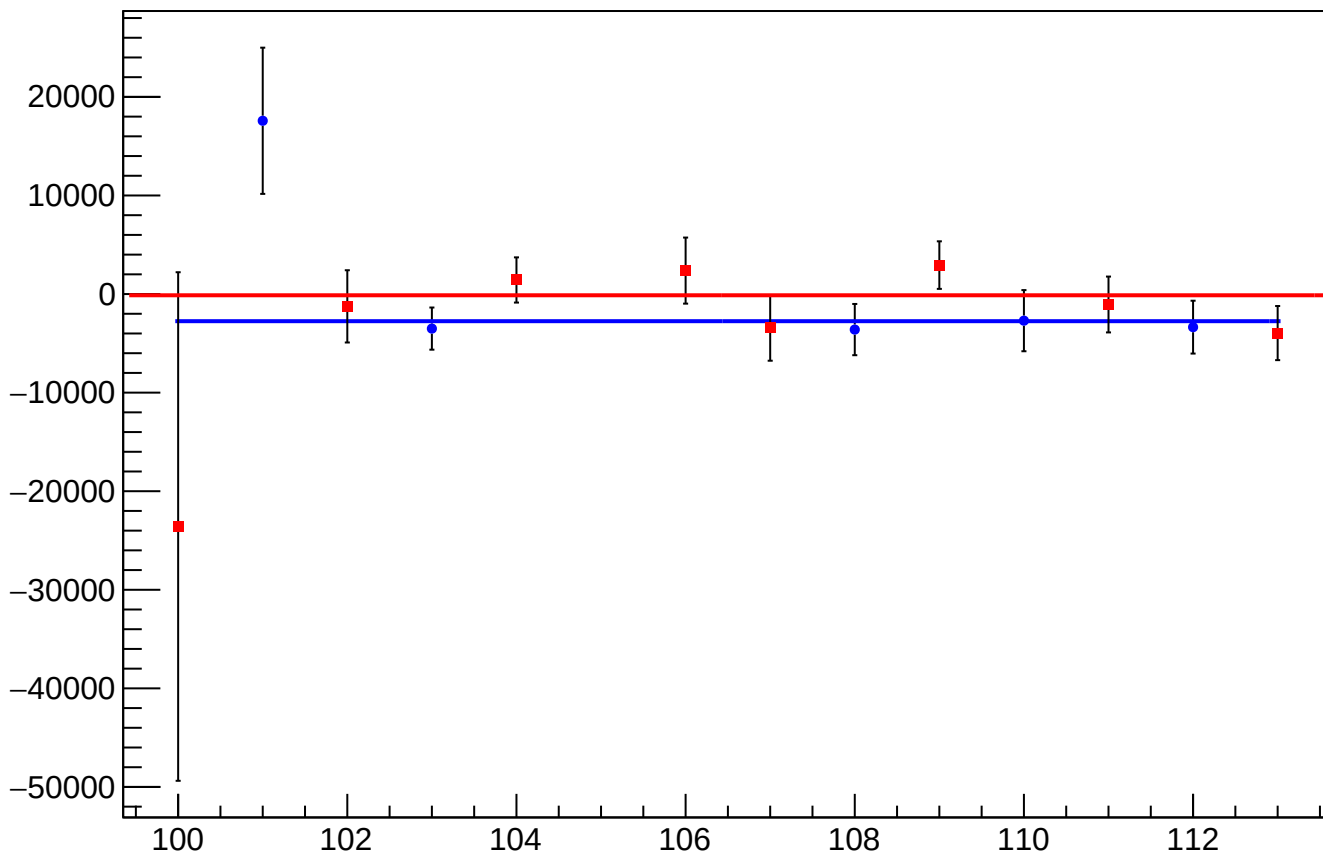
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3212.222 $\pm$ 0.988  $\chi^2$ /NDF: 781814.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atr\_dd\_mean vs Slug



Right In: -2751.823+/-1261.620  $\chi^2$ /NDF: 7.8/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -123.866+/-1069.251  $\chi^2$ /NDF: 6.6/7

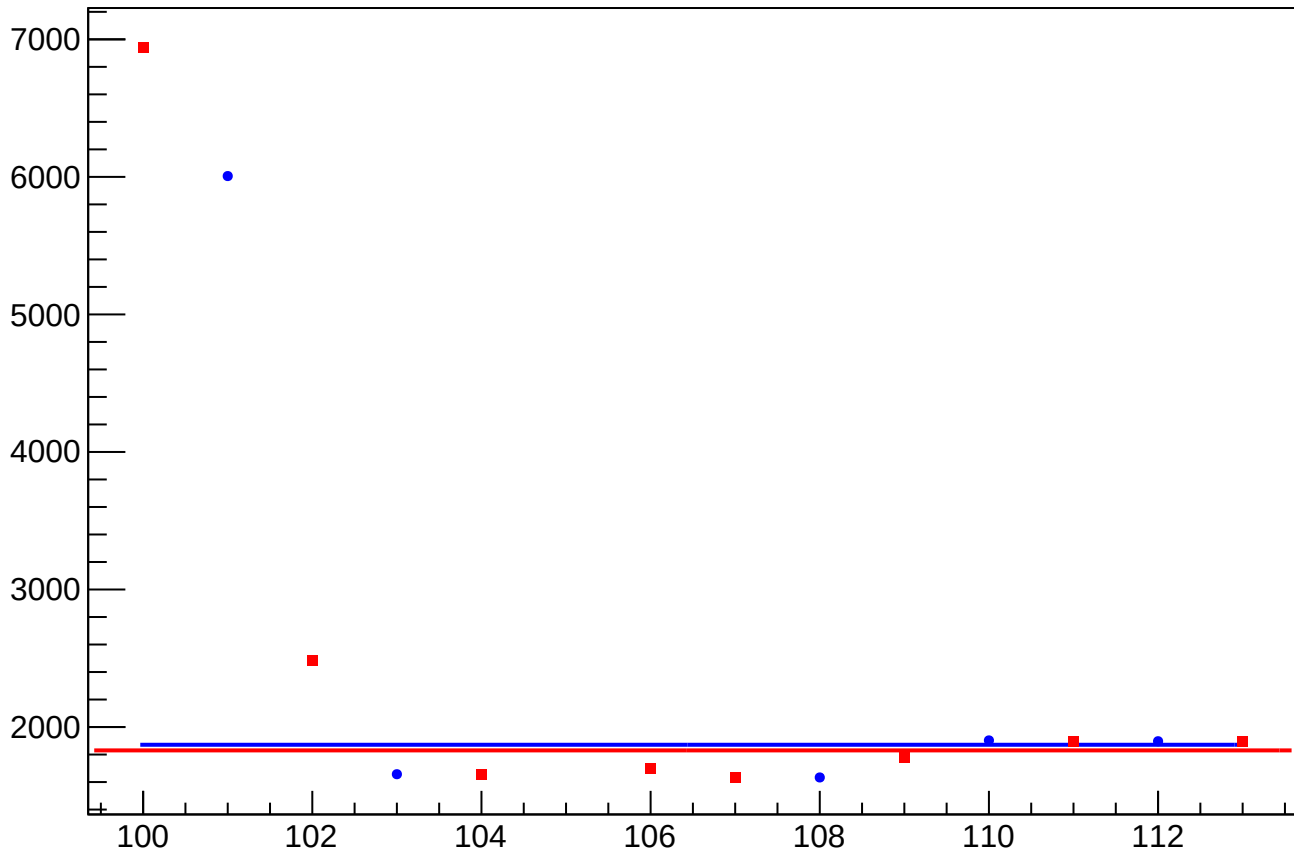
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1222.424+/-815.701  $\chi^2$ /NDF: 16.9/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atr\_dd\_rms vs Slug



Right In: 1871.124+/-0.892  $\chi^2/\text{NDF}$ : 658896.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1830.151+/-0.754  $\chi^2/\text{NDF}$ : 167211.5/7

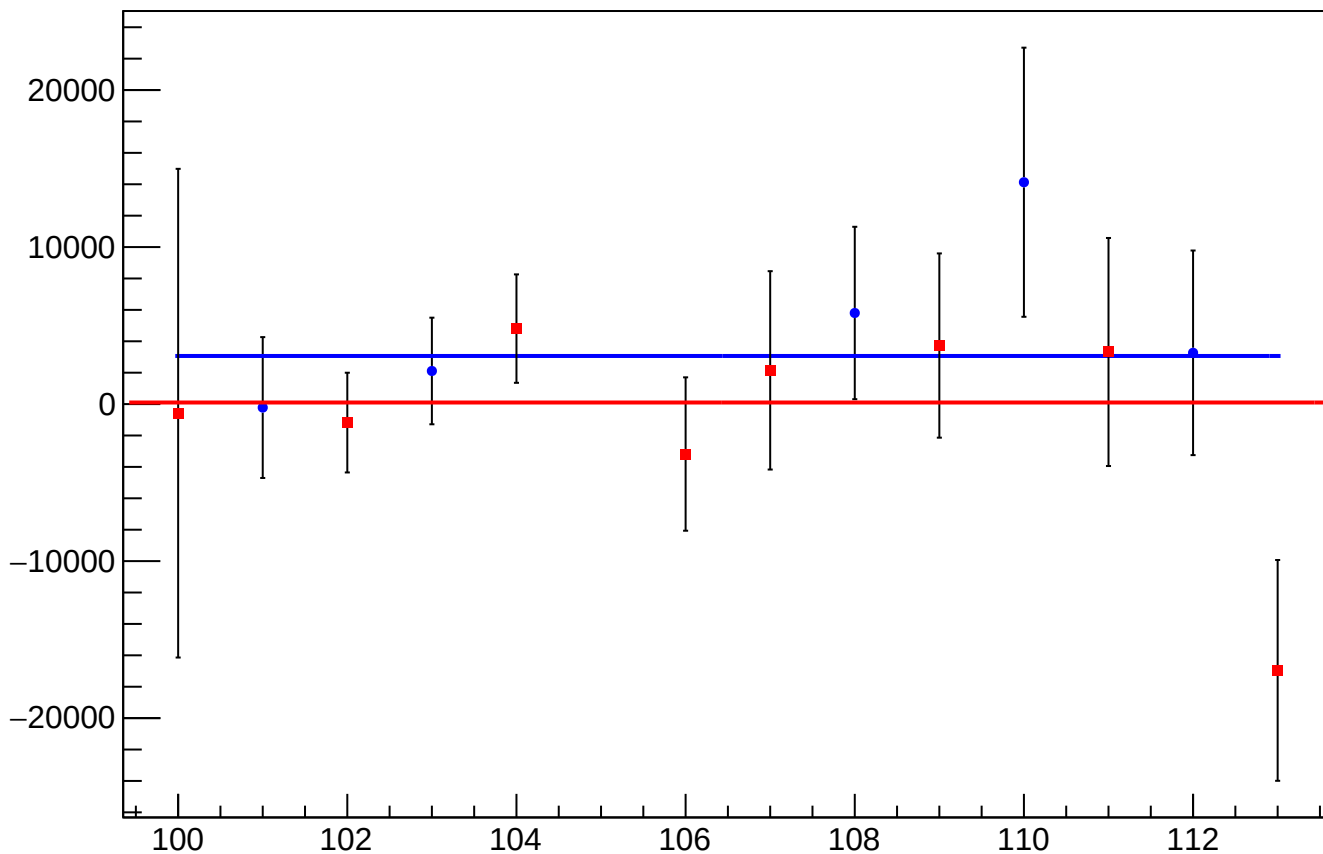
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1847.231+/-0.576  $\chi^2/\text{NDF}$ : 827338.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_dit\_correction\_mean vs Slug



Right In: 3064.714 $\pm$ 2198.766  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 101.207 $\pm$ 1761.193  $\chi^2$ /NDF: 9.0/7

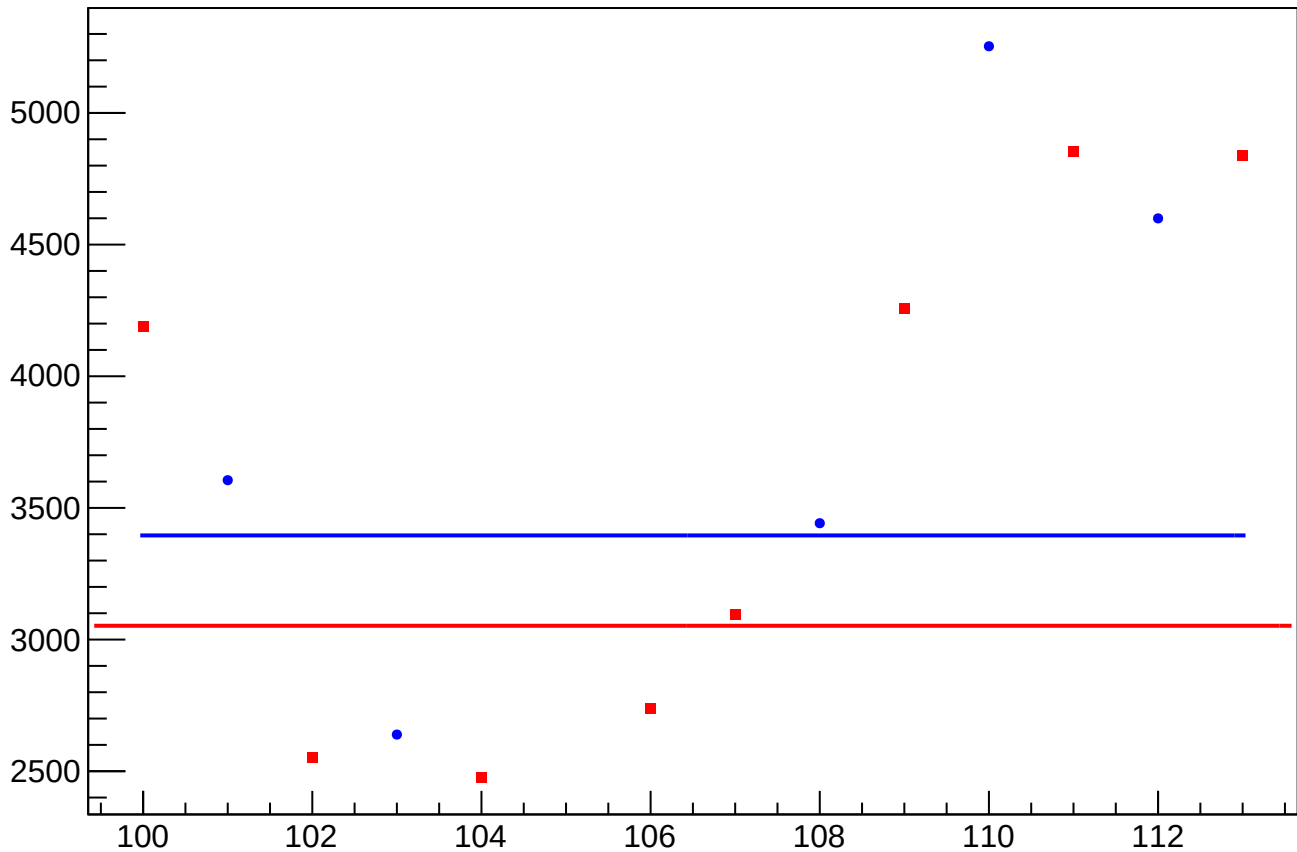
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1259.445 $\pm$ 1374.595  $\chi^2$ /NDF: 12.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_dit\_correction\_rms vs Slug



Right In: 3395.489 $\pm$ 1.555  $\chi^2$ /NDF: 266111.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3052.443 $\pm$ 1.245  $\chi^2$ /NDF: 460444.7/7

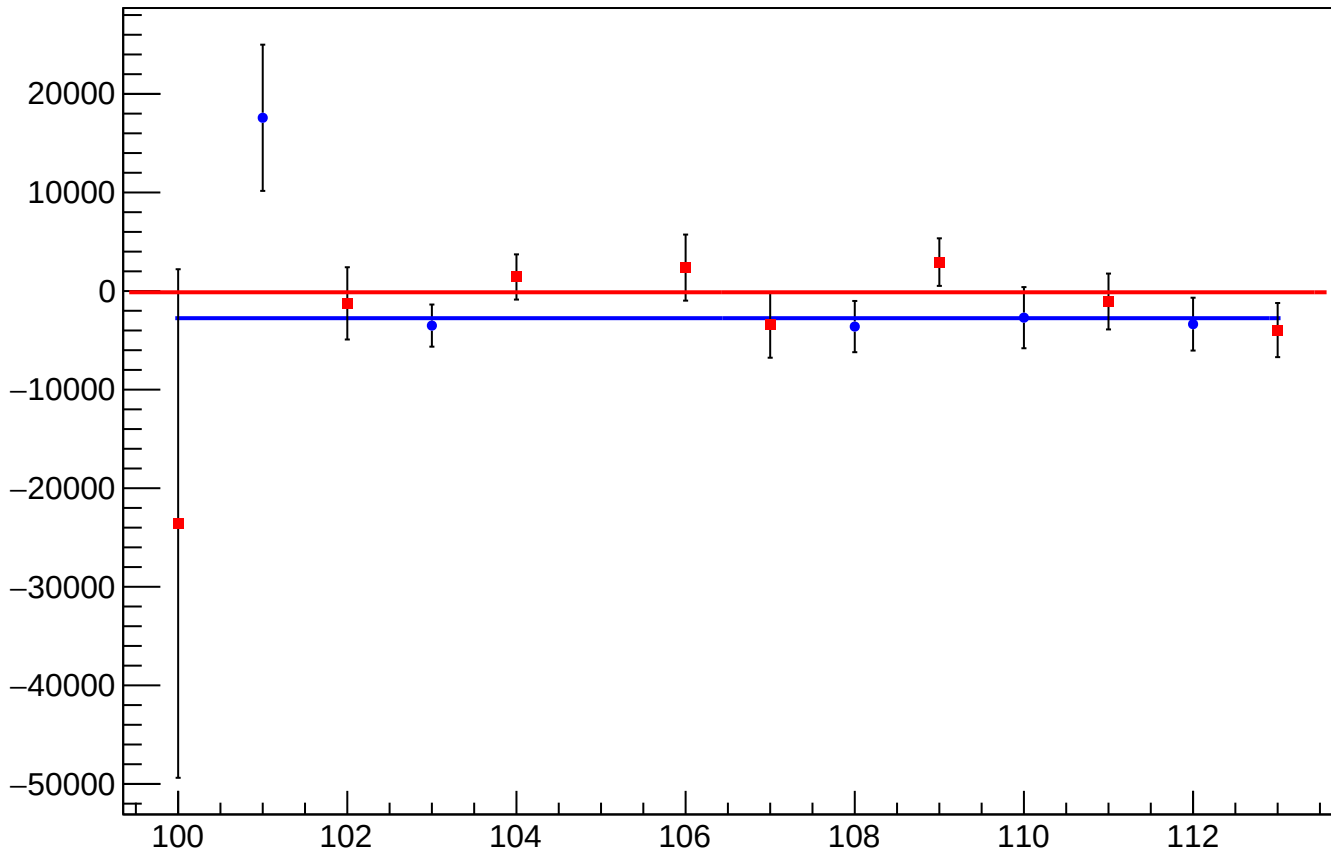
All: 3186.517 $\pm$ 0.972  $\chi^2$ /NDF: 756212.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_dit\_asym\_atr\_dd\_mean vs Slug



Right In: -2751.826 $\pm$ 1261.620  $\chi^2$ /NDF: 7.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -123.861 $\pm$ 1069.251  $\chi^2$ /NDF: 6.6/7

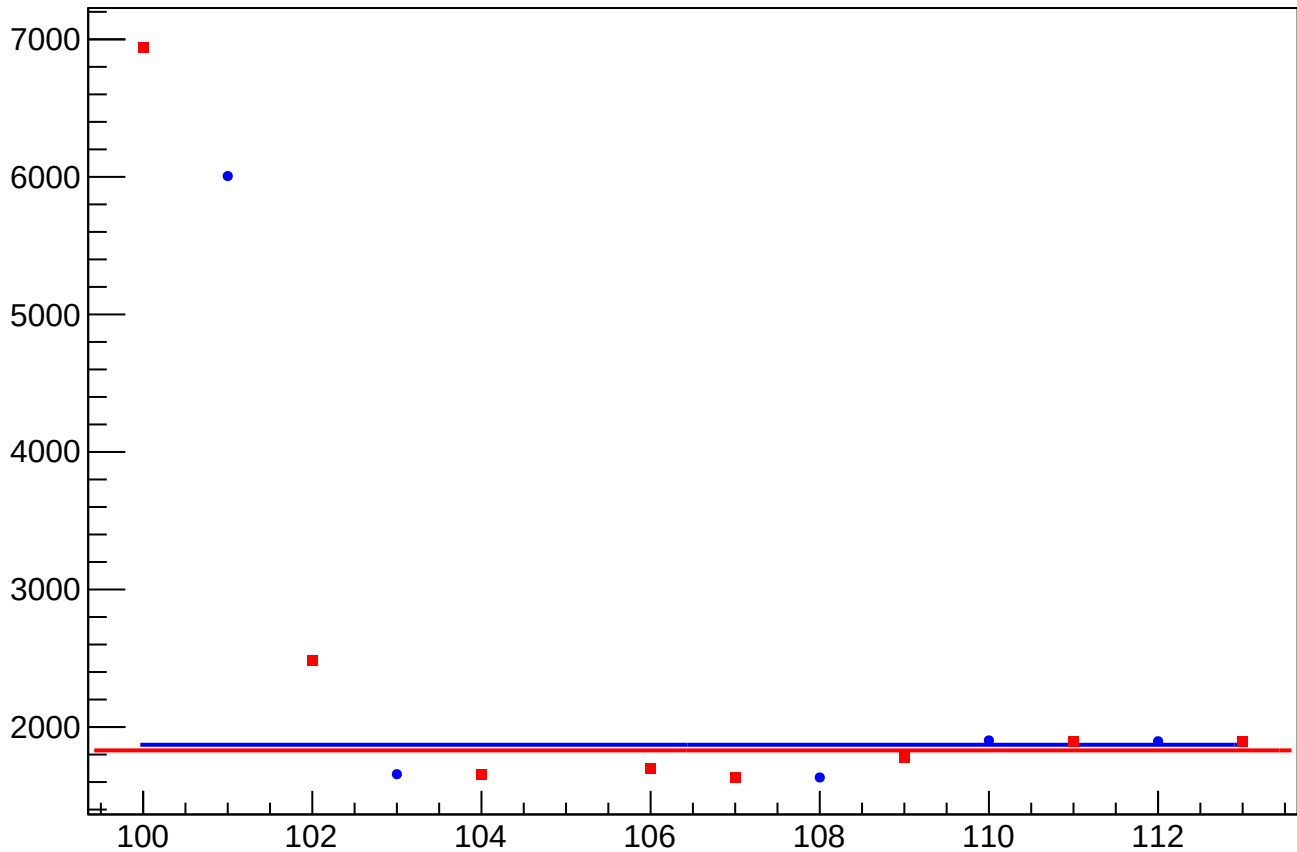
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1222.422 $\pm$ 815.701  $\chi^2$ /NDF: 16.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atr\_dd\_rms vs Slug



Right In: 1871.124+/-0.892  $\chi^2/\text{NDF}$ : 658896.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1830.151+/-0.754  $\chi^2/\text{NDF}$ : 167211.5/7

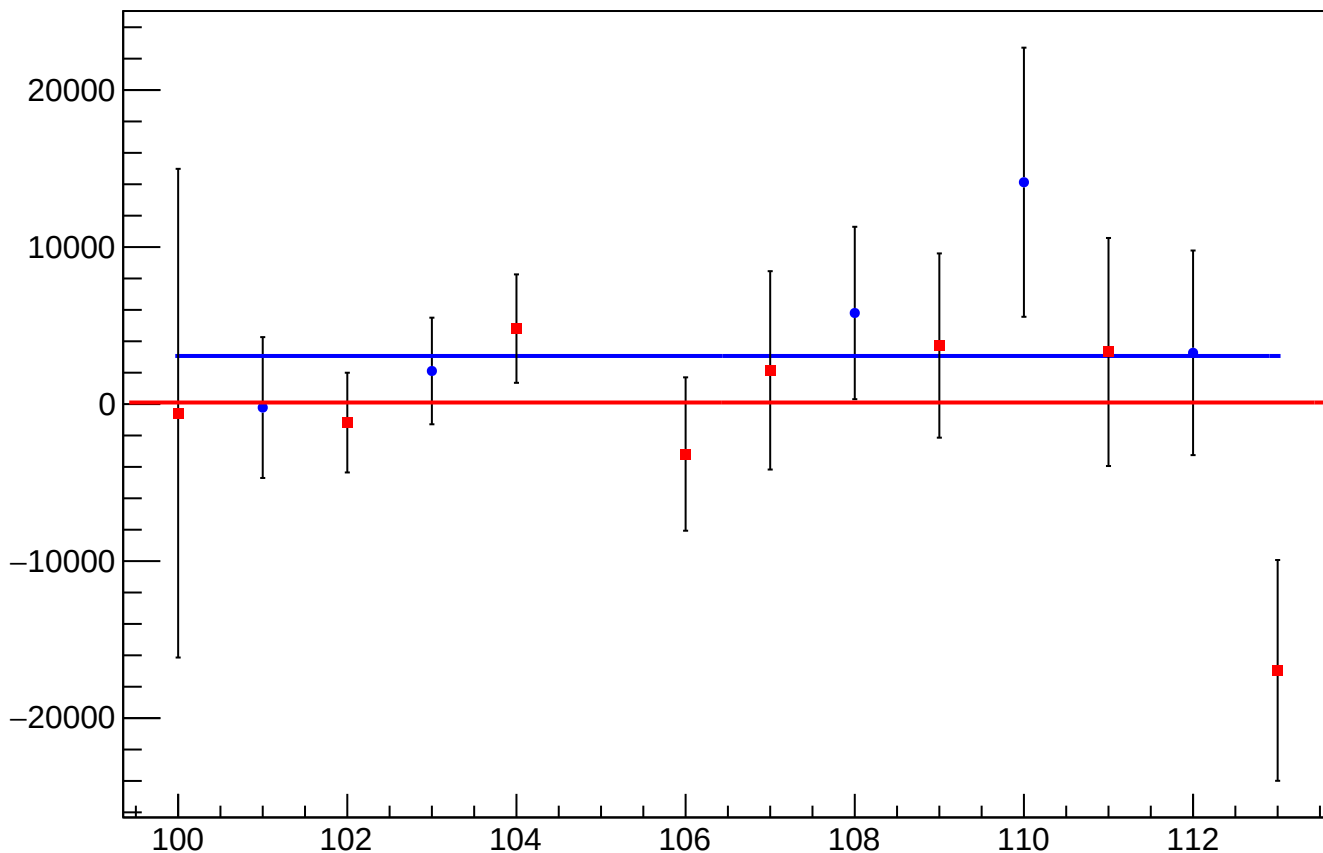
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1847.231+/-0.576  $\chi^2/\text{NDF}$ : 827338.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 3064.719 $\pm$ 2198.765  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 101.208 $\pm$ 1761.191  $\chi^2$ /NDF: 9.0/7

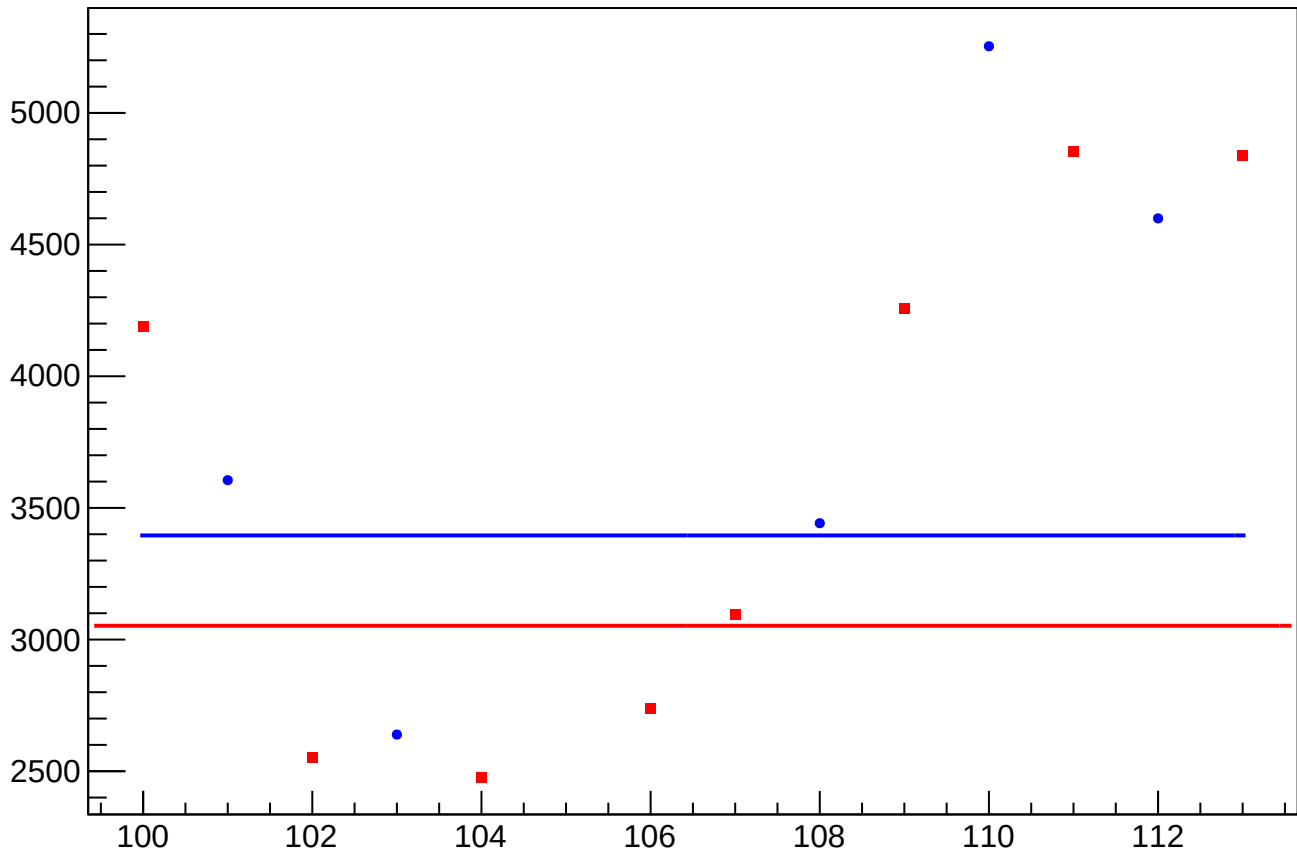
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1259.447 $\pm$ 1374.594  $\chi^2$ /NDF: 12.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 3395.488 $\pm$ 1.555  $\chi^2$ /NDF: 266110.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

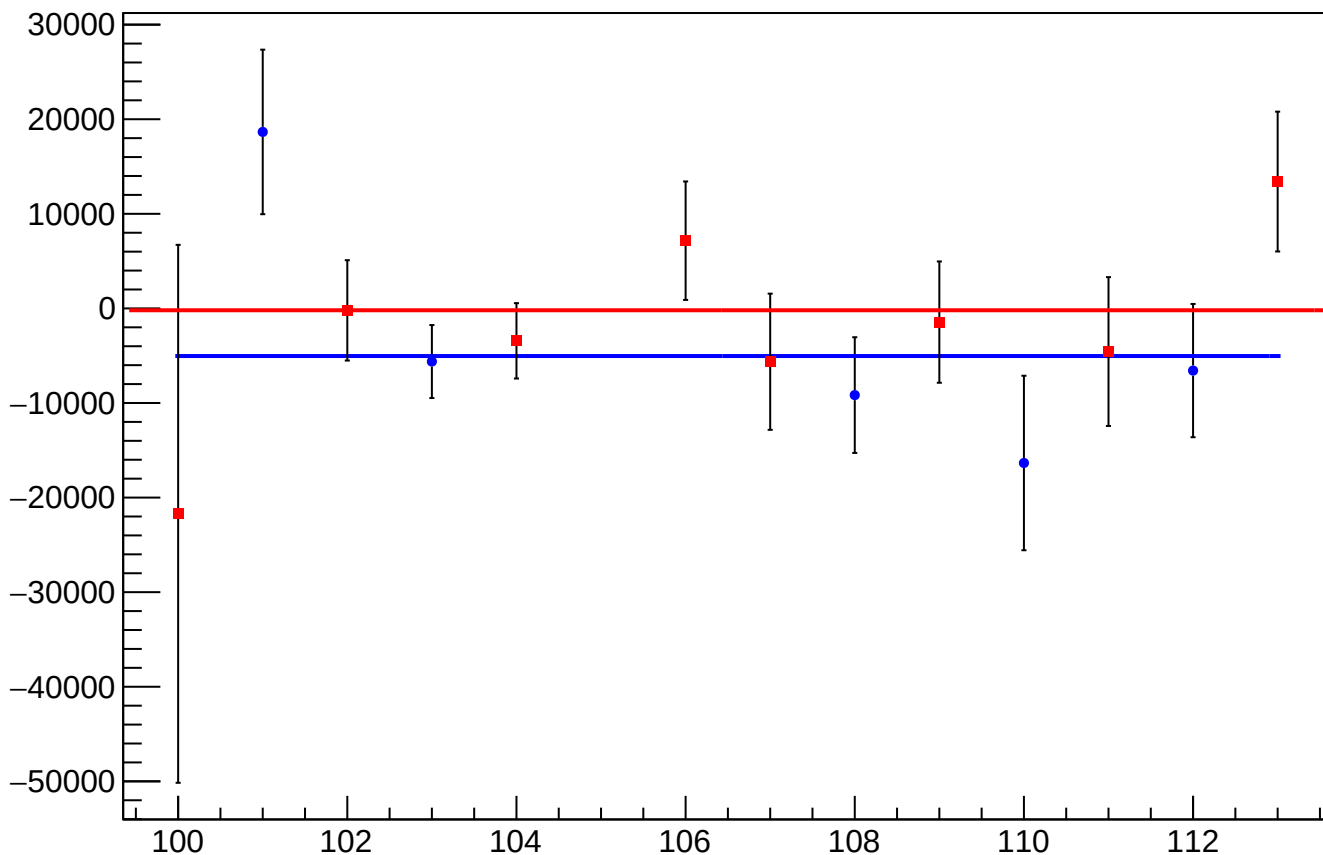
Right Out: 3052.440 $\pm$ 1.245  $\chi^2$ /NDF: 460442.9/7

All: 3186.515 $\pm$ 0.972  $\chi^2$ /NDF: 756209.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_mean vs Slug



Right In: -5035.555 $\pm$ 2681.756  $\chi^2$ /NDF: 9.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -195.901 $\pm$ 2217.661  $\chi^2$ /NDF: 6.9/7

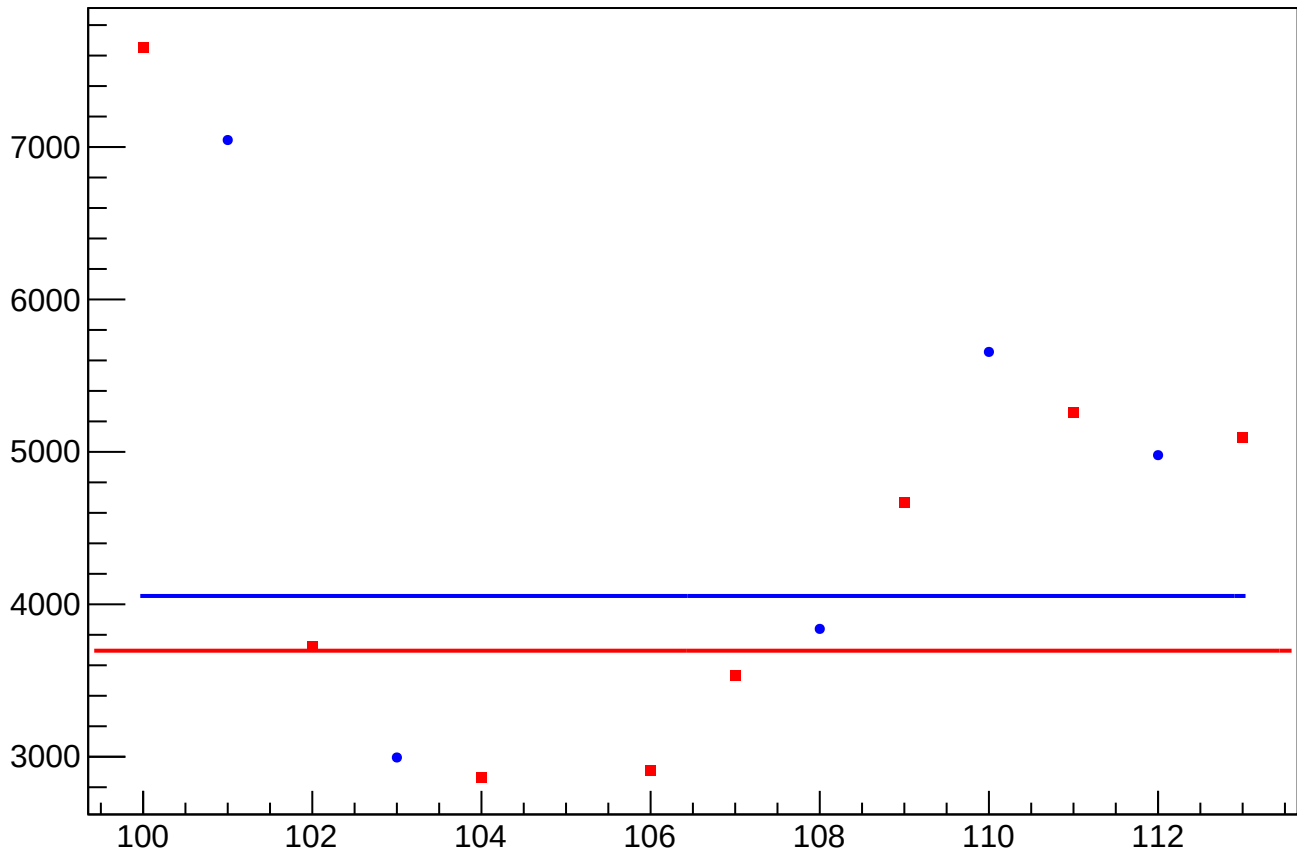
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2161.371 $\pm$ 1709.013  $\chi^2$ /NDF: 18.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_rms vs Slug



Right In: 4054.803+/-1.896  $\chi^2/\text{NDF}$ : 484615.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3695.785+/-1.544  $\chi^2/\text{NDF}$ : 362699.5/7

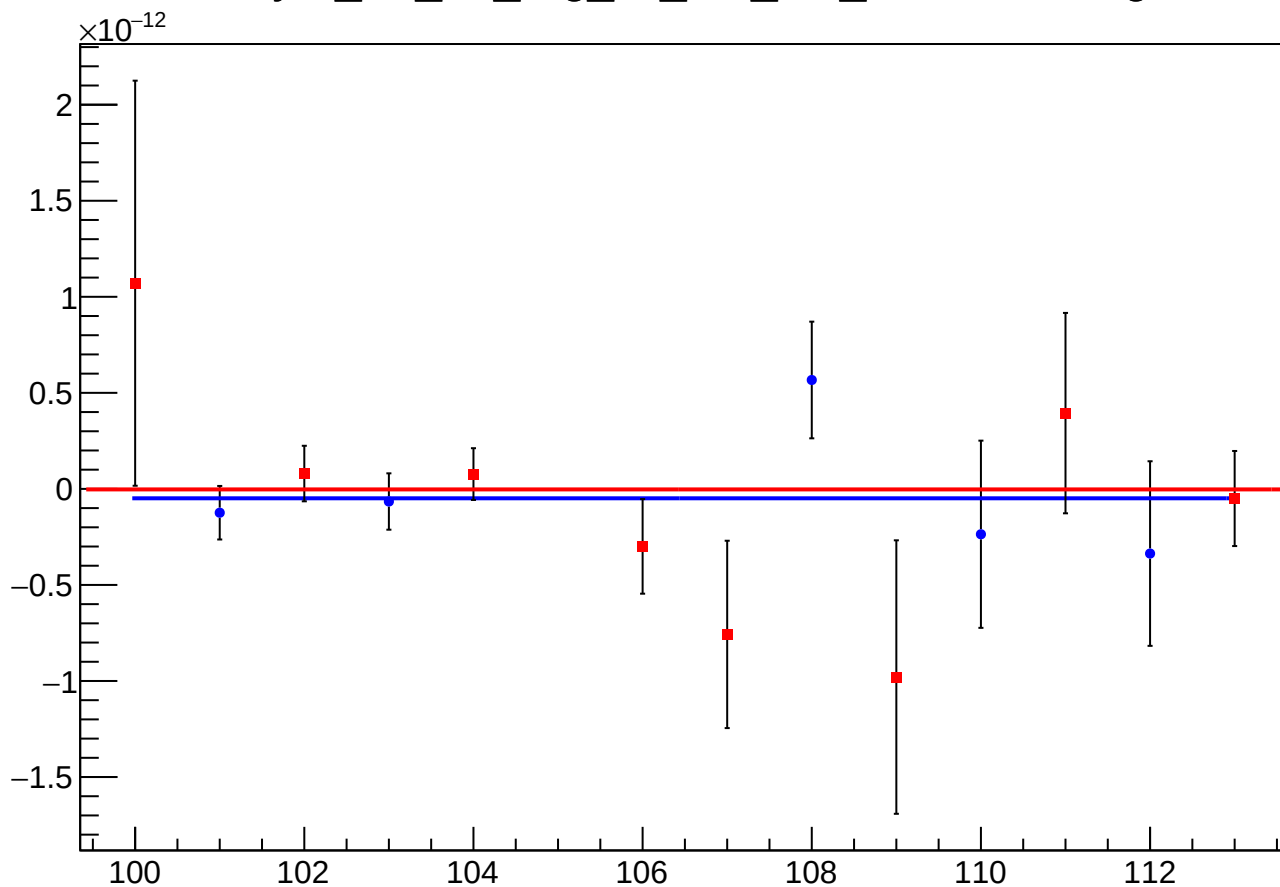
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3838.965+/-1.198  $\chi^2/\text{NDF}$ : 868864.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.1/7

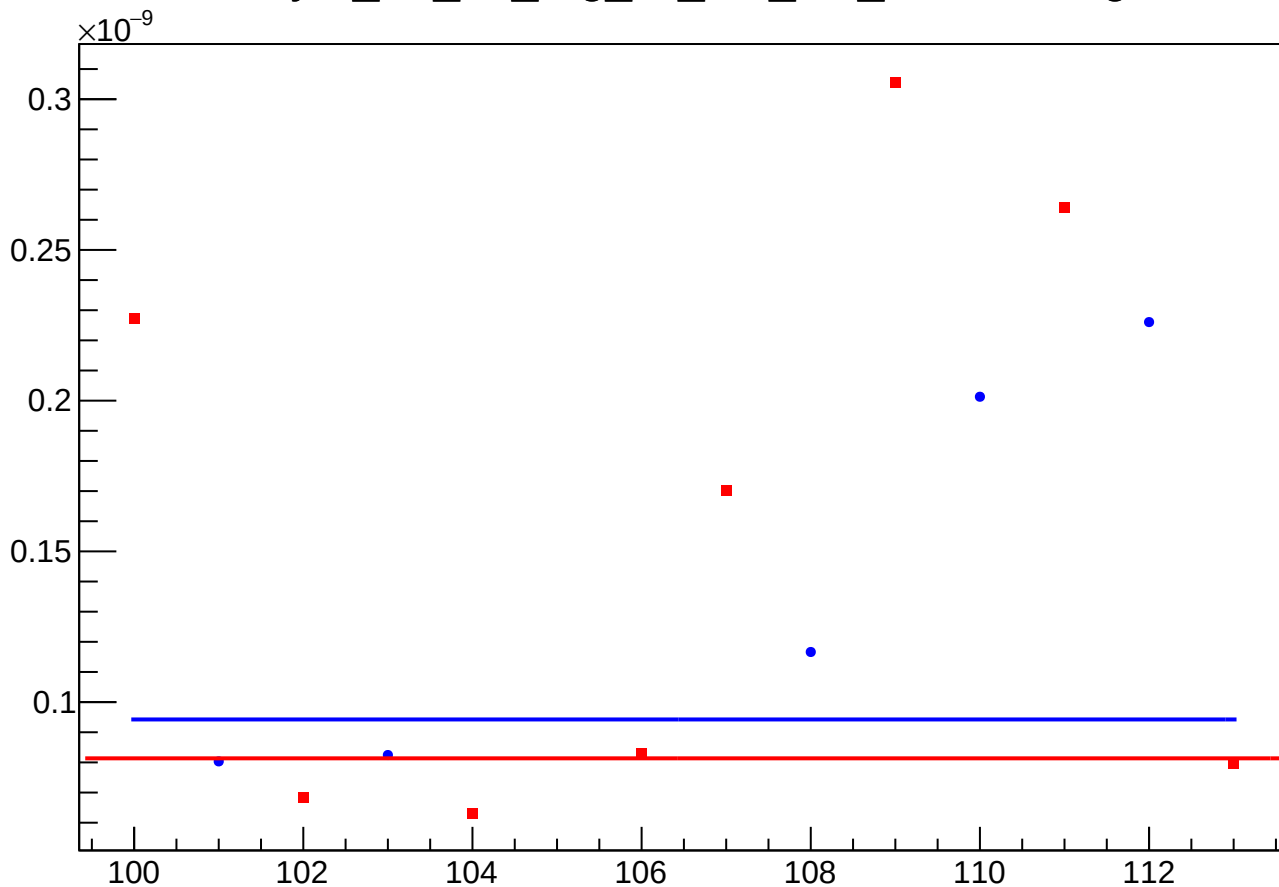
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 290771.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 601524.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

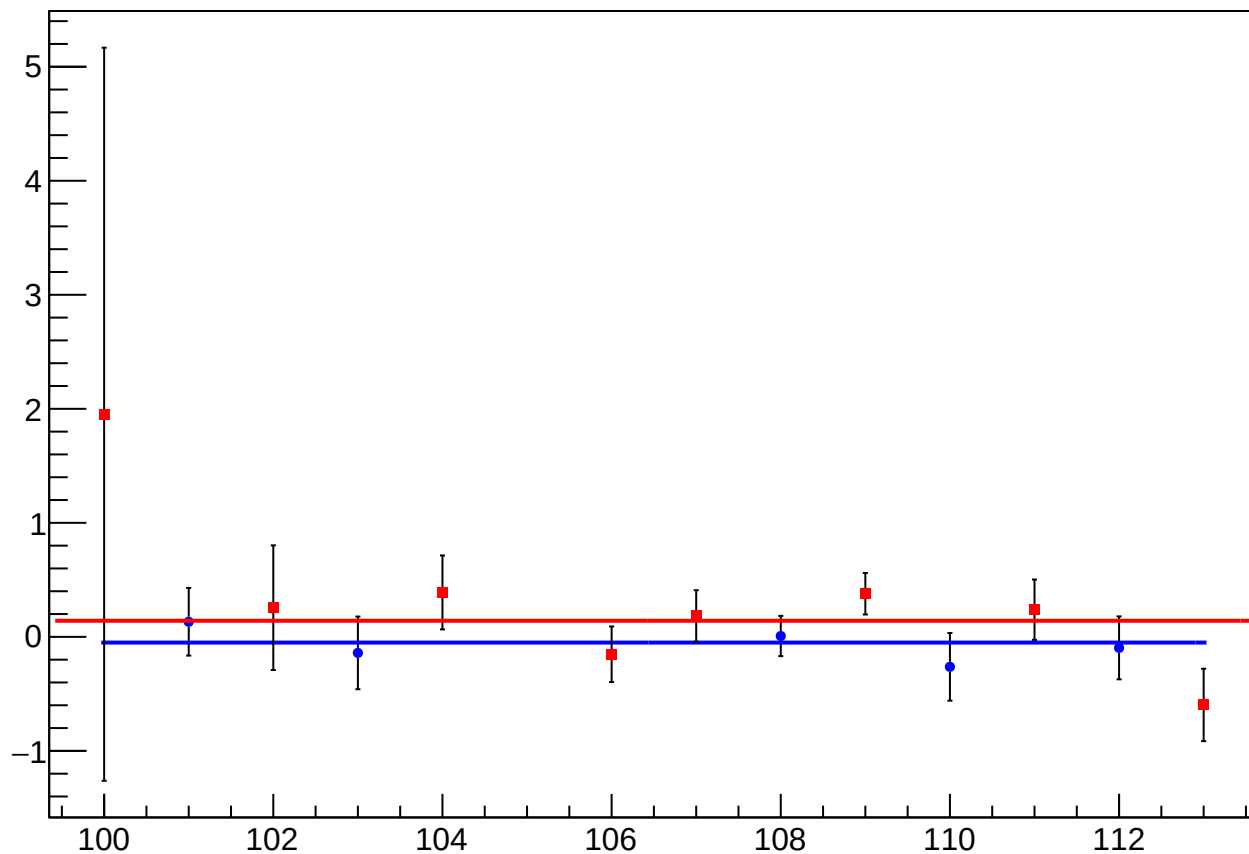
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 913969.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_atr\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.050 \pm 0.113$   $\chi^2/\text{NDF}$ : 1.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.141 \pm 0.098$   $\chi^2/\text{NDF}$ : 9.7/7

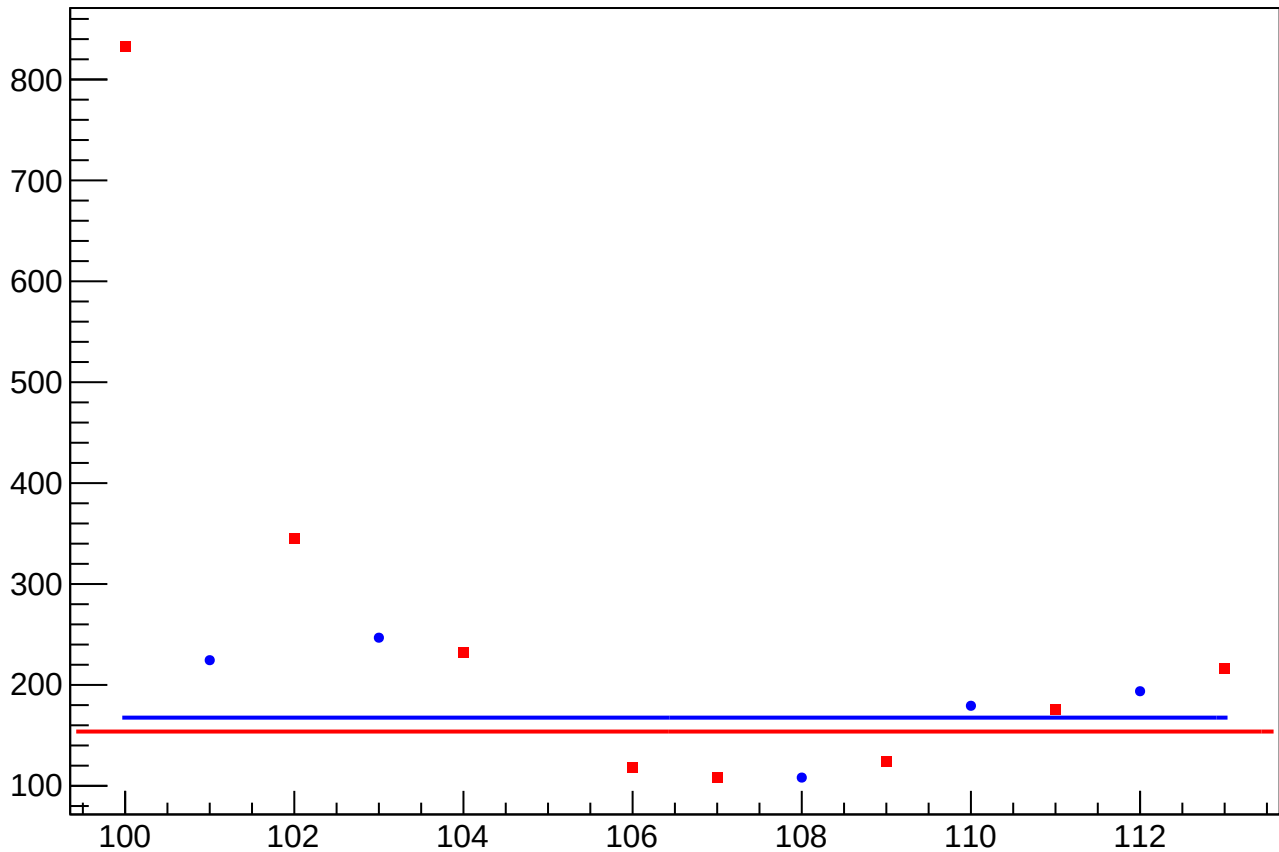
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.059 \pm 0.074$   $\chi^2/\text{NDF}$ : 12.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 167.601 $\pm$ 0.080  $\chi^2$ /NDF: 444478.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 153.805 $\pm$ 0.069  $\chi^2$ /NDF: 719946.2/7

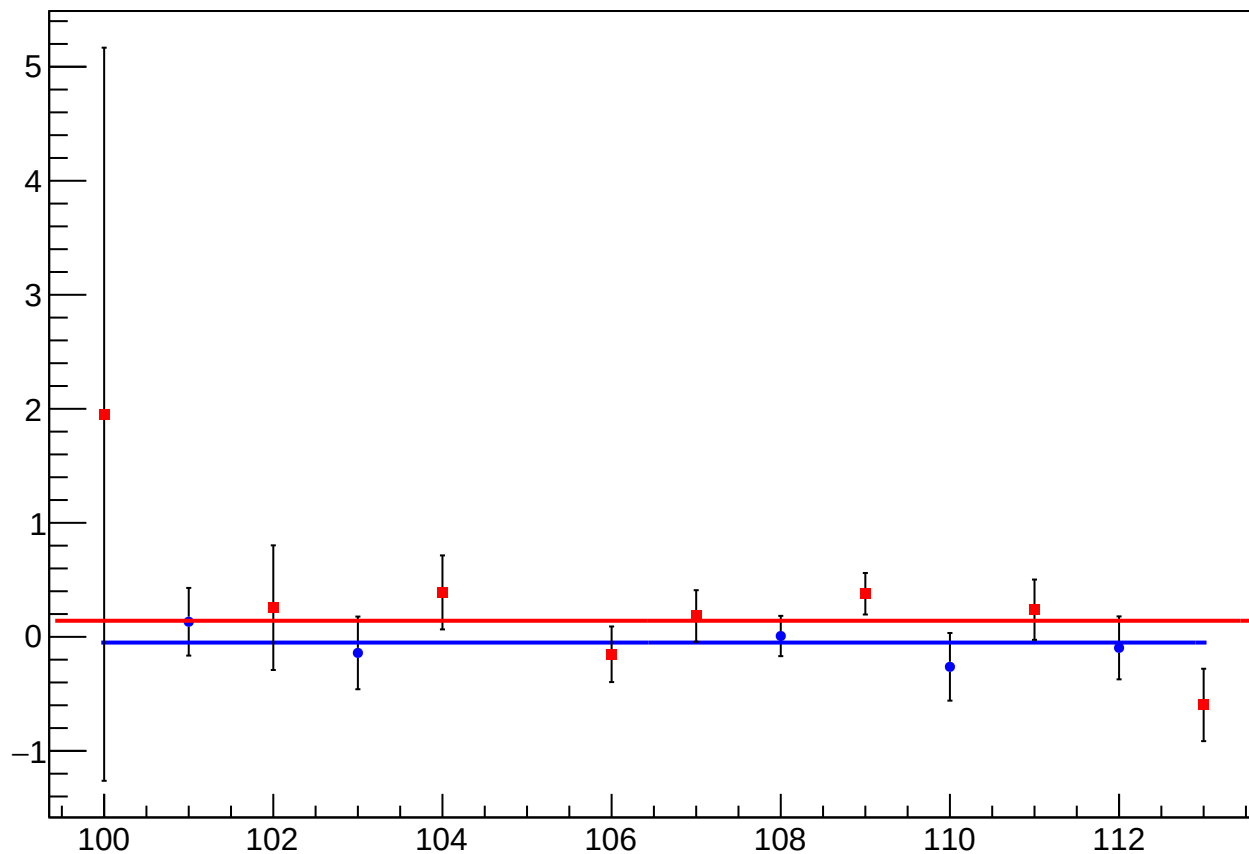
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 159.716 $\pm$ 0.053  $\chi^2$ /NDF: 1181333.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.050+/-0.113  $\chi^2/\text{NDF}$ : 1.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.141+/-0.098  $\chi^2/\text{NDF}$ : 9.7/7

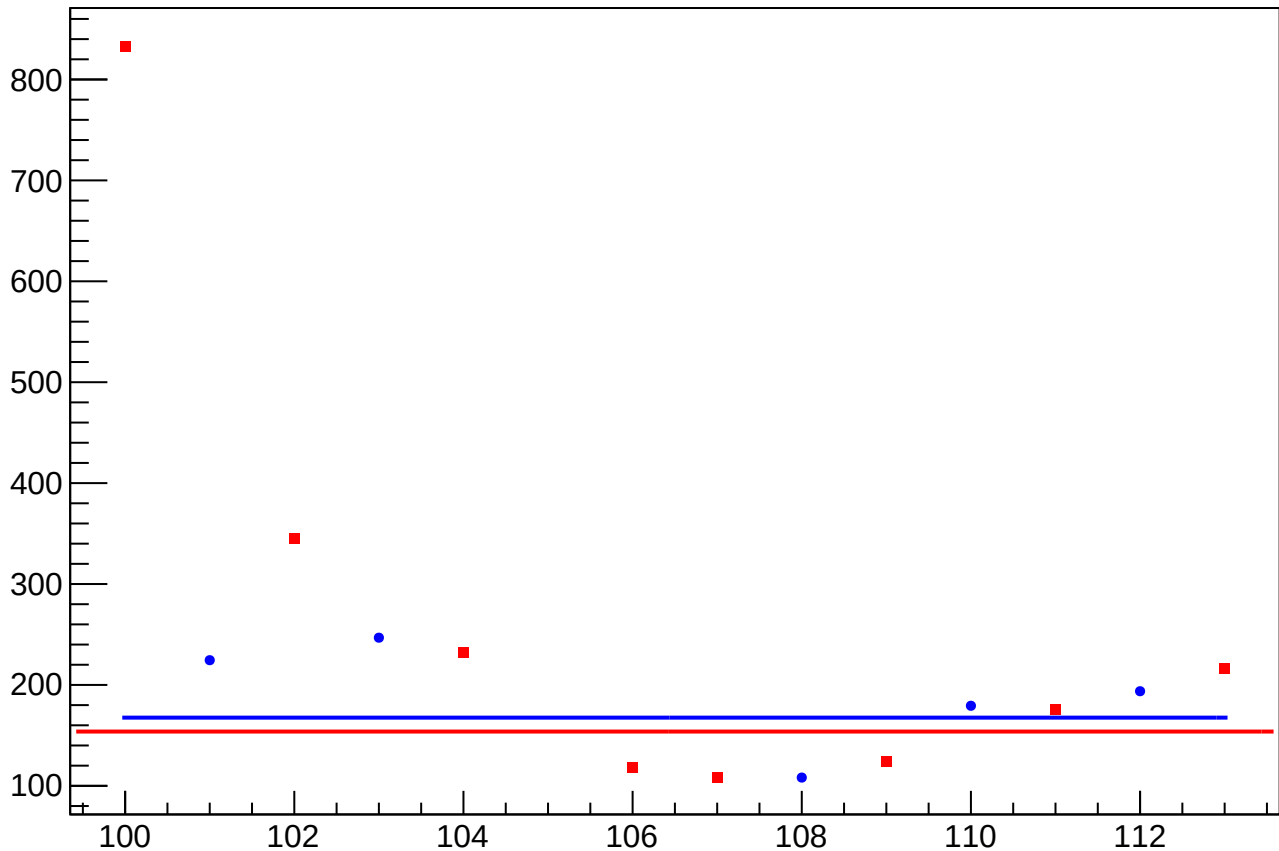
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.059+/-0.074  $\chi^2/\text{NDF}$ : 12.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 167.601 $\pm$ 0.080  $\chi^2$ /NDF: 444478.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 153.805 $\pm$ 0.069  $\chi^2$ /NDF: 719946.2/7

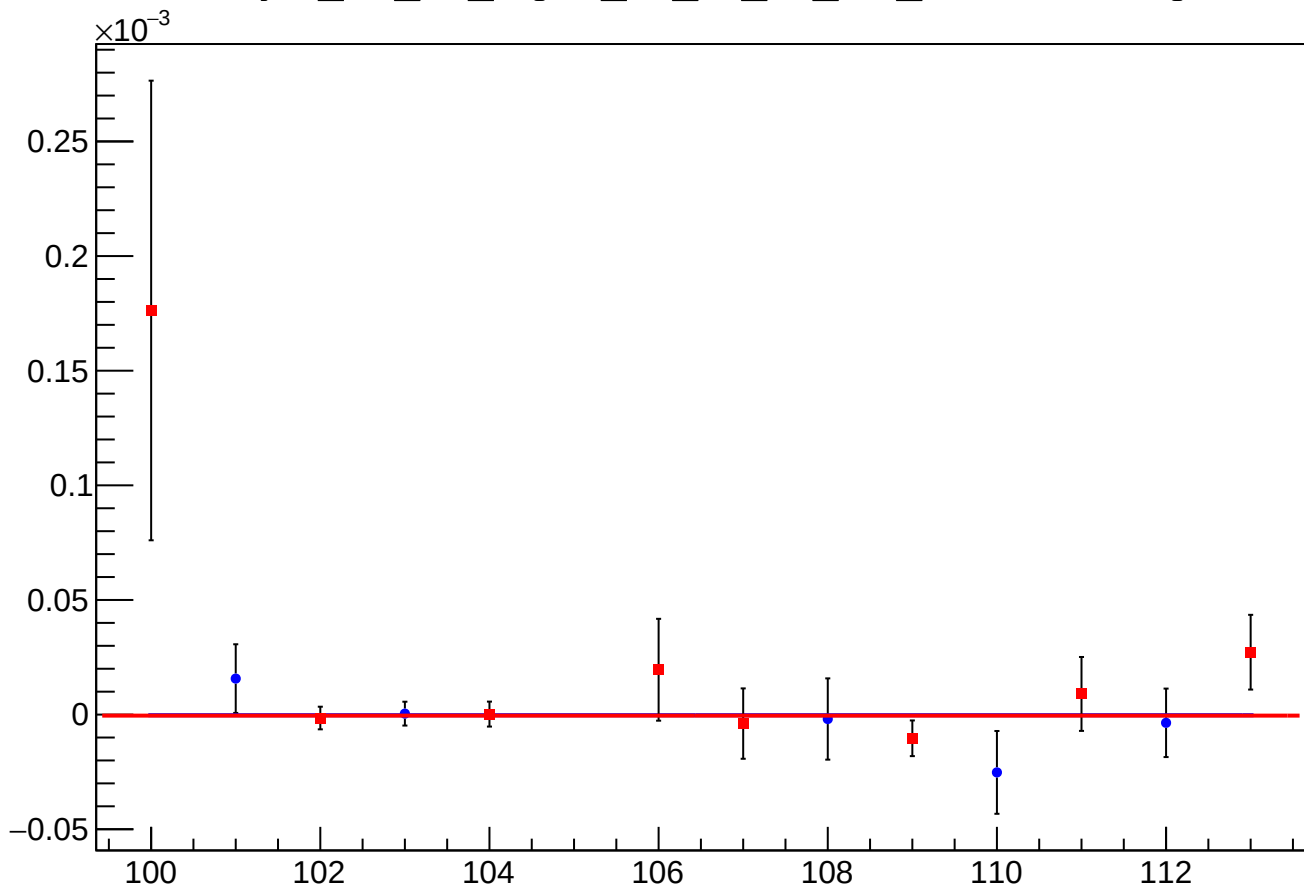
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 159.716 $\pm$ 0.053  $\chi^2$ /NDF: 1181333.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 3.1/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 8.9/7

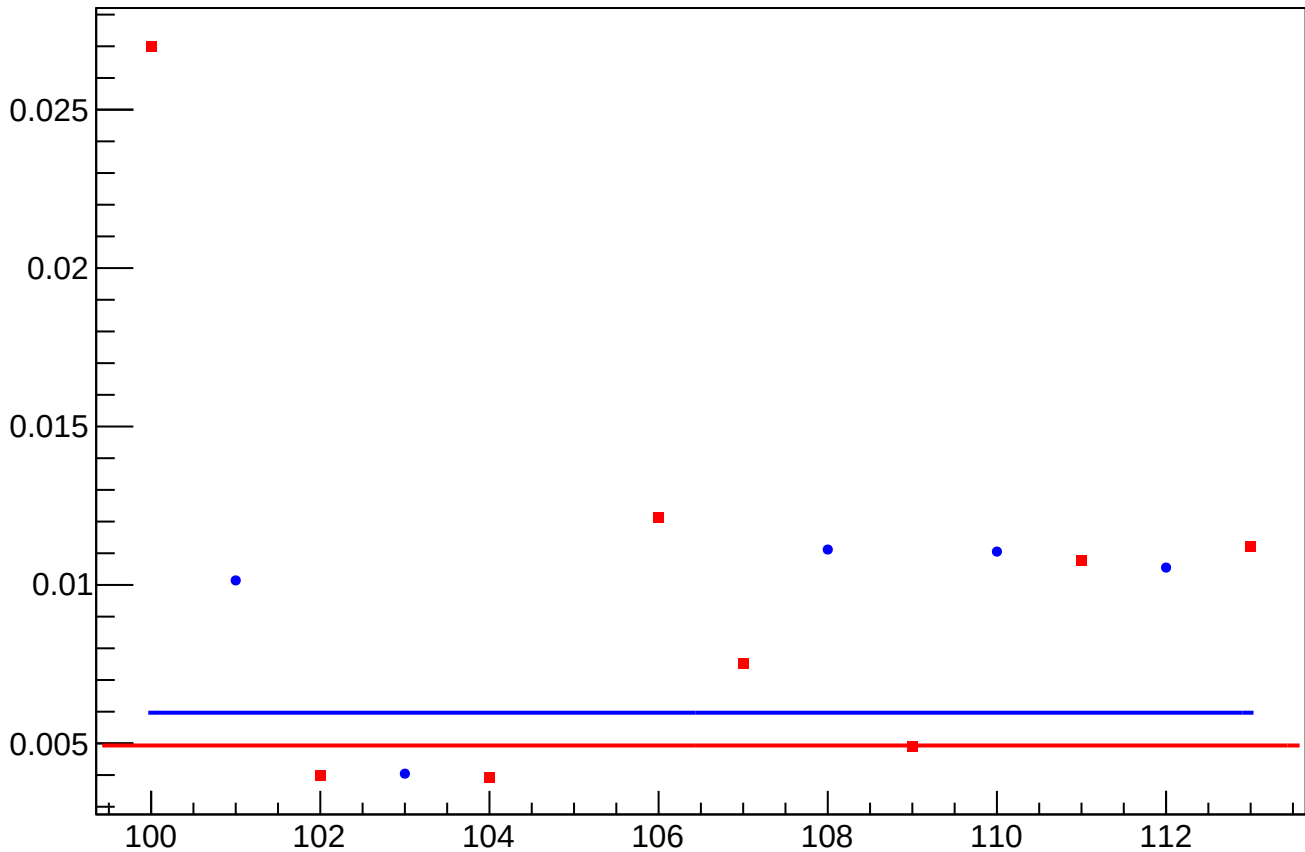
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 12.0/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.006 $\pm$ 0.000  $\chi^2$ /NDF: 944865.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.000  $\chi^2$ /NDF: 1067568.3/7

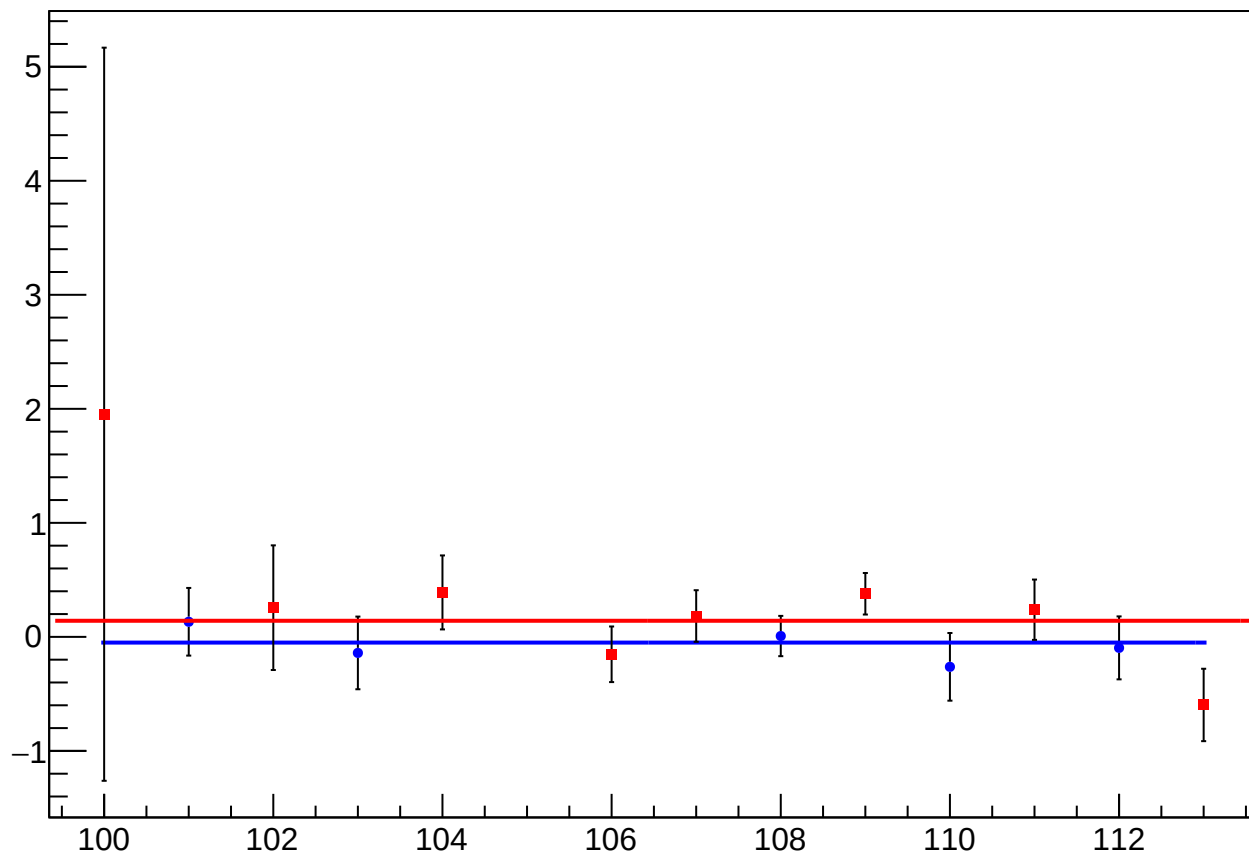
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.000  $\chi^2$ /NDF: 2087137.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.050+/-0.113  $\chi^2/\text{NDF}$ : 1.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.141+/-0.098  $\chi^2/\text{NDF}$ : 9.7/7

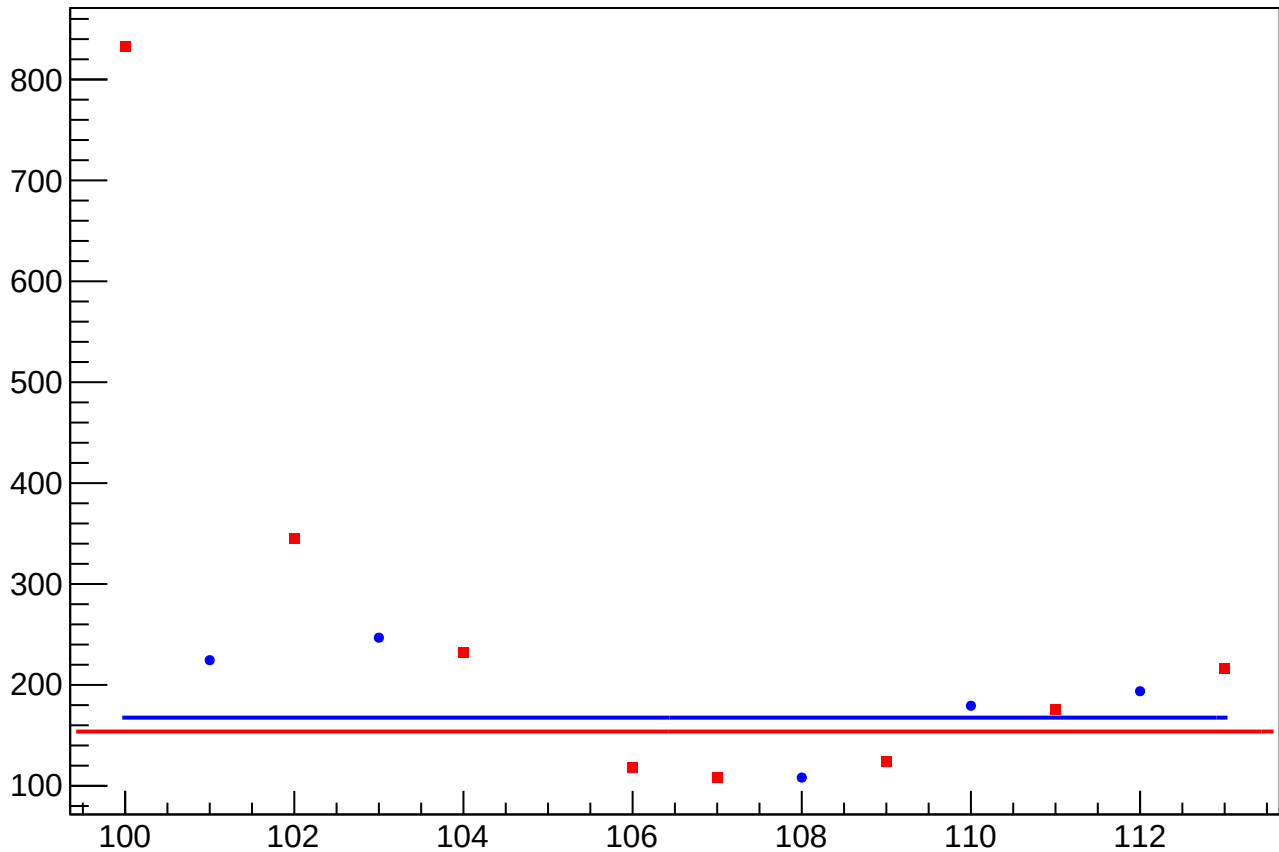
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.059+/-0.074  $\chi^2/\text{NDF}$ : 12.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 167.597 $\pm$ 0.080  $\chi^2$ /NDF: 444533.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 153.805 $\pm$ 0.069  $\chi^2$ /NDF: 719950.6/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

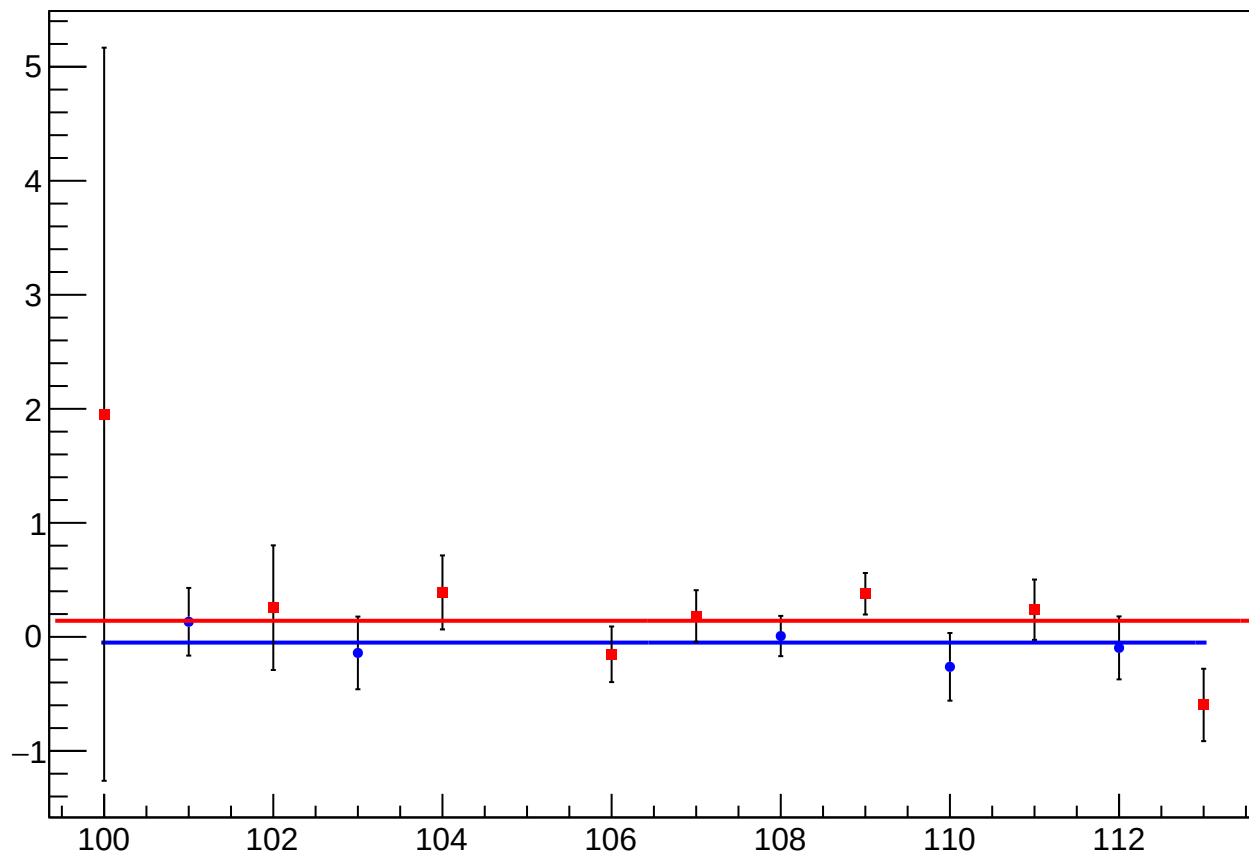
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 159.715 $\pm$ 0.053  $\chi^2$ /NDF: 1181382.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_atr\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.050 $\pm$ 0.113  $\chi^2$ /NDF: 1.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.141 $\pm$ 0.098  $\chi^2$ /NDF: 9.7/7

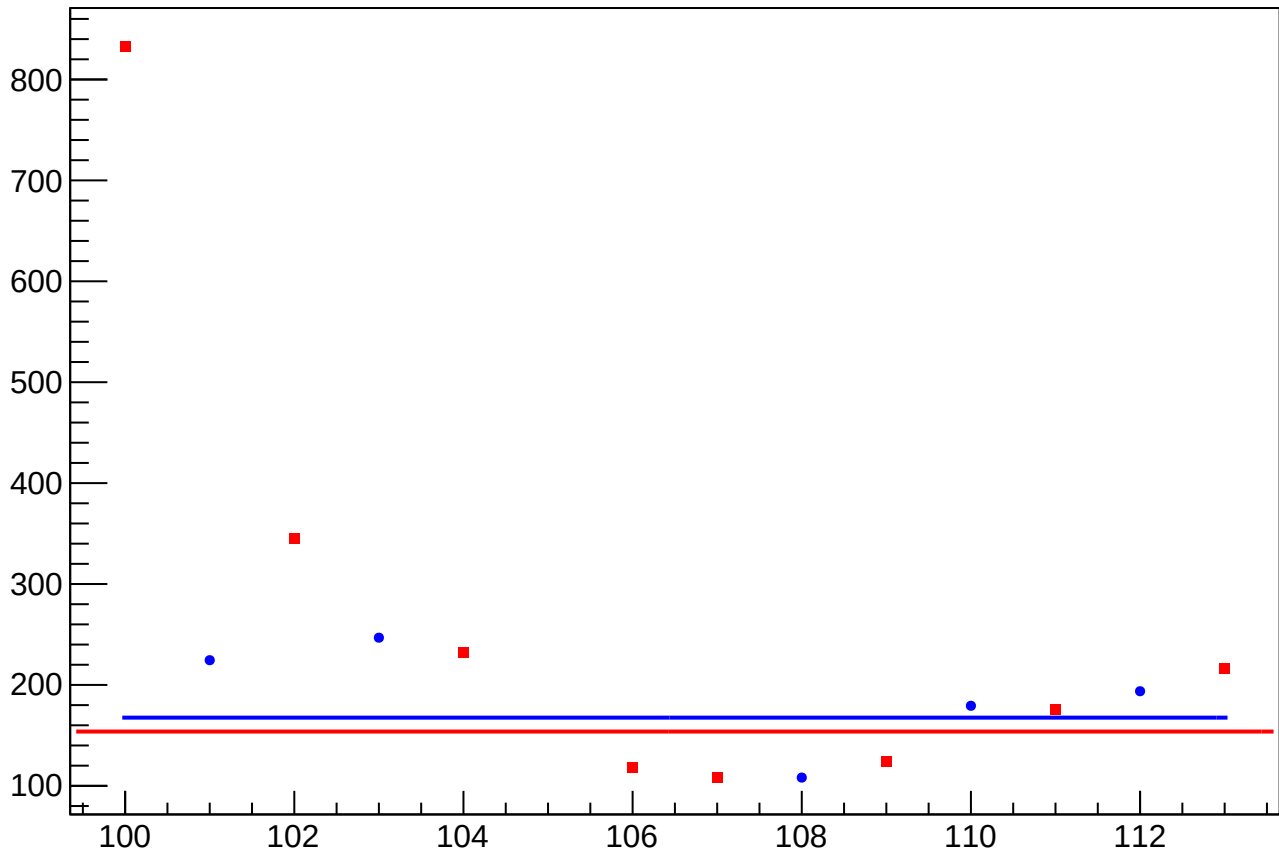
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.059 $\pm$ 0.074  $\chi^2$ /NDF: 12.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 167.597+/-0.080  $\chi^2/\text{NDF}$ : 444533.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 153.805+/-0.069  $\chi^2/\text{NDF}$ : 719950.6/7

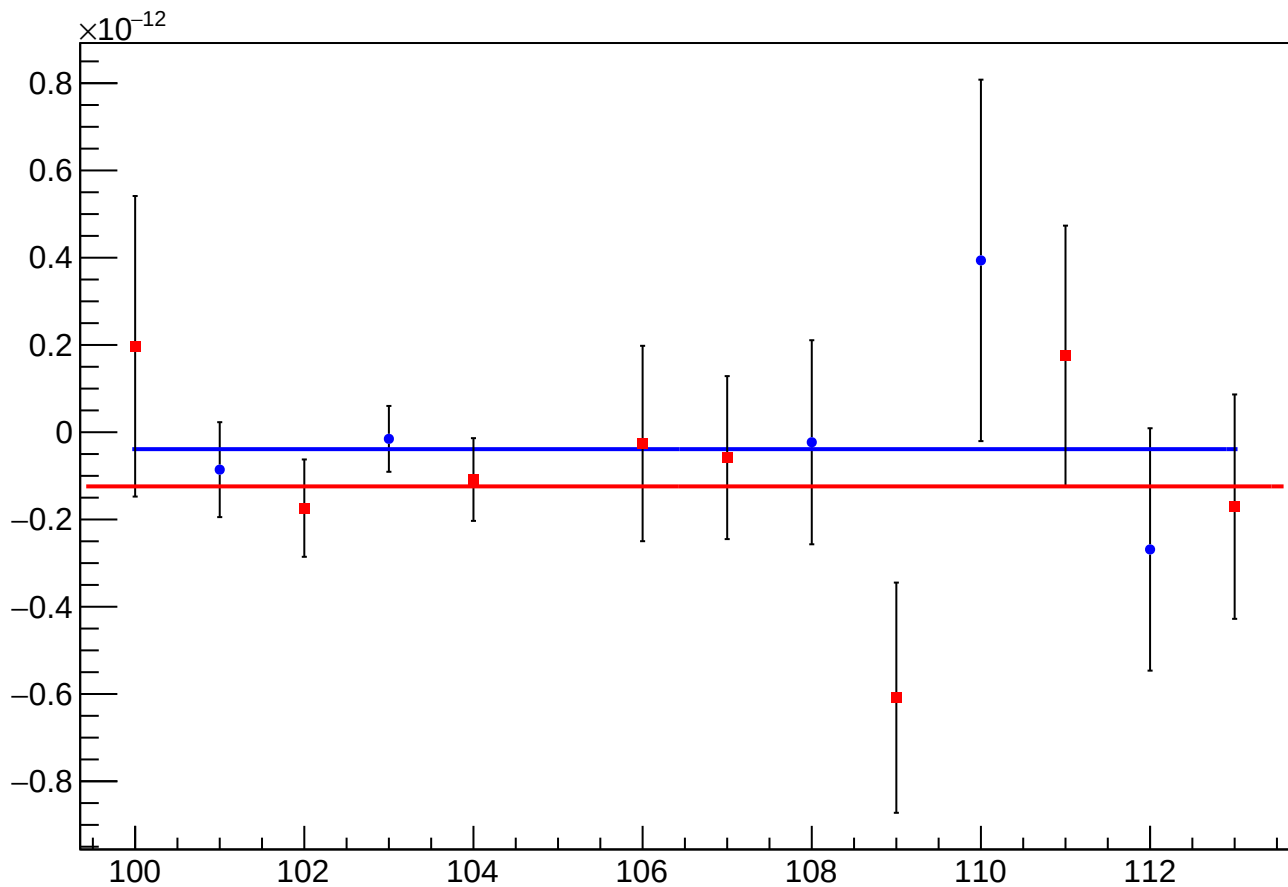
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 159.715+/-0.053  $\chi^2/\text{NDF}$ : 1181382.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.8/7

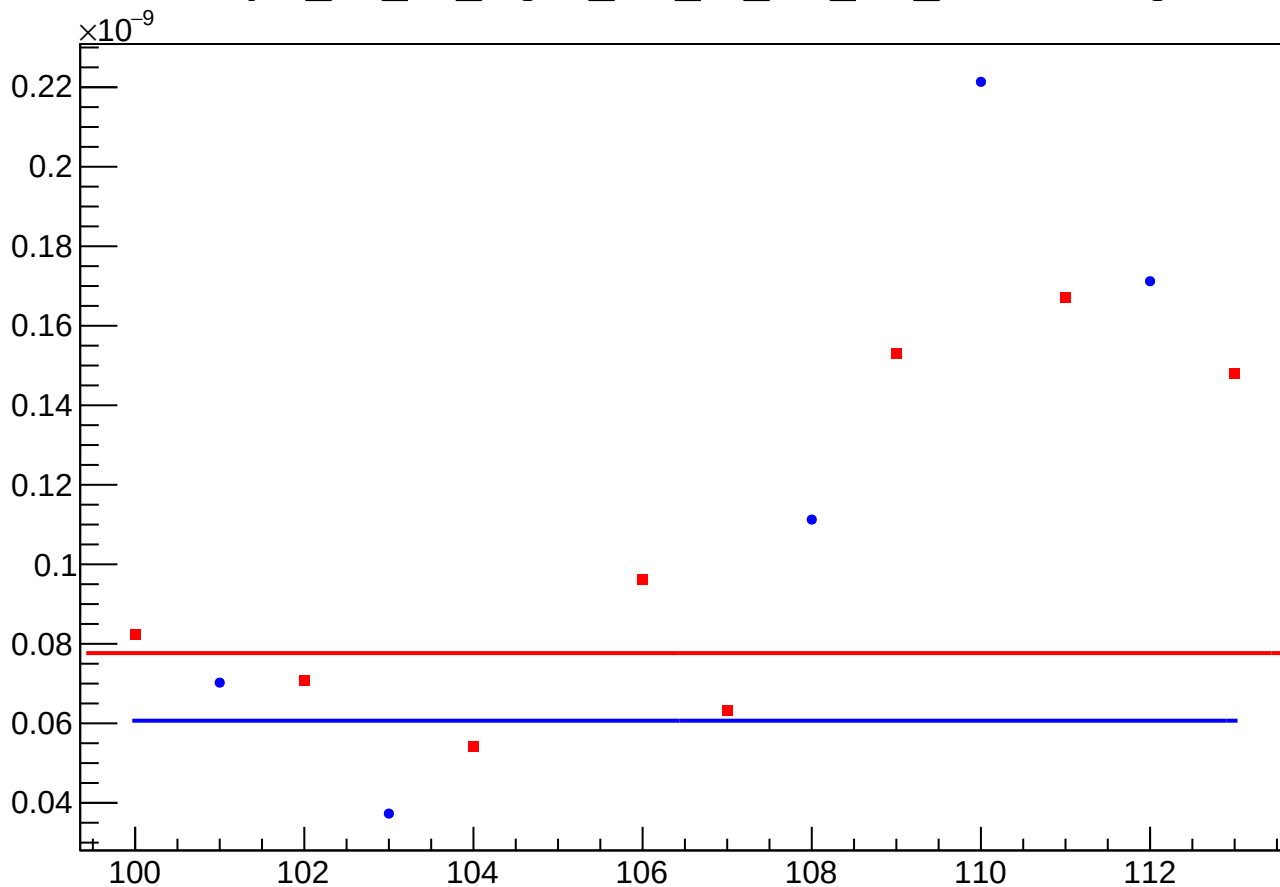
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 918479.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 648148.6/7

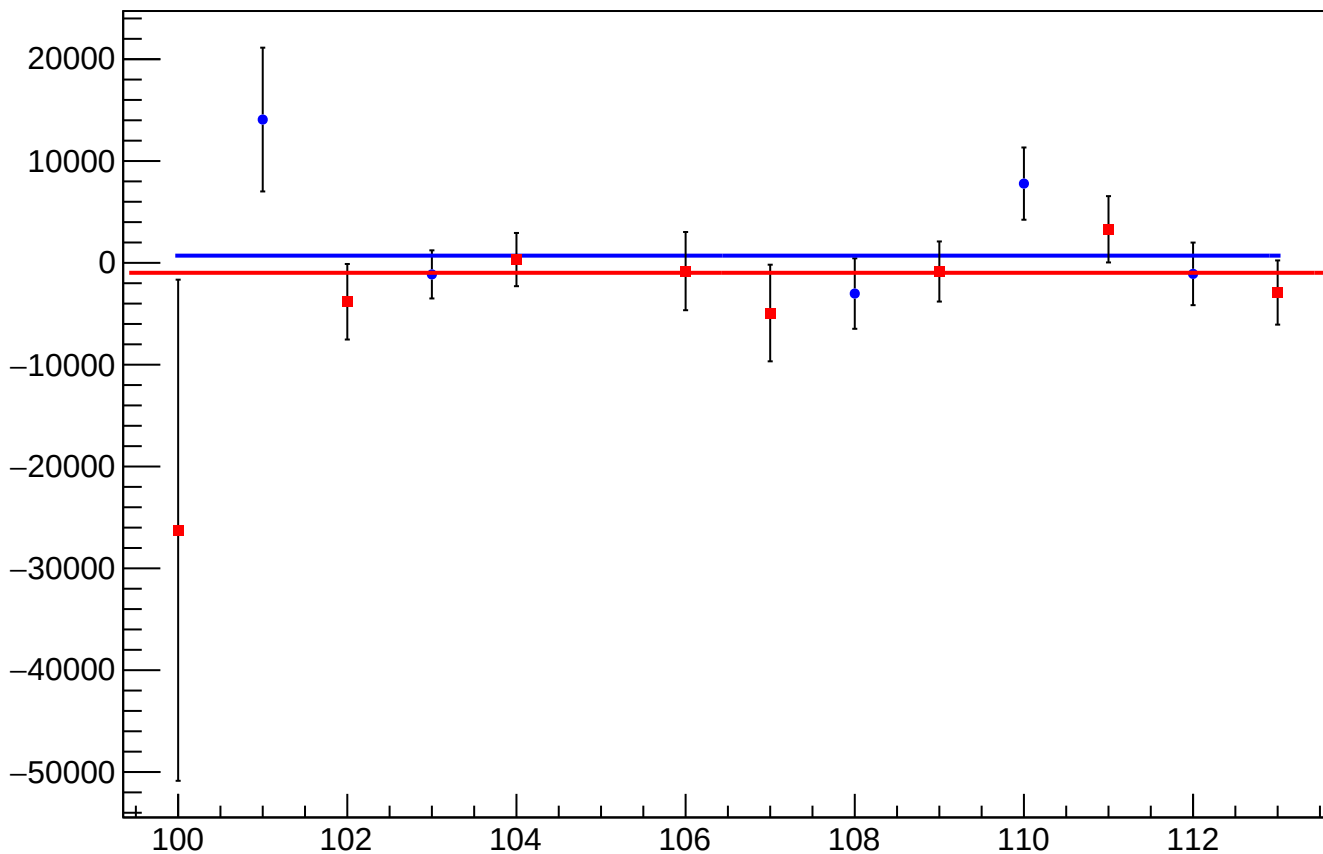
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1651373.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_mean vs Slug



Right In: 708.941+/-1461.739  $\chi^2$ /NDF: 9.7/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -976.041+/-1247.434  $\chi^2$ /NDF: 4.7/7

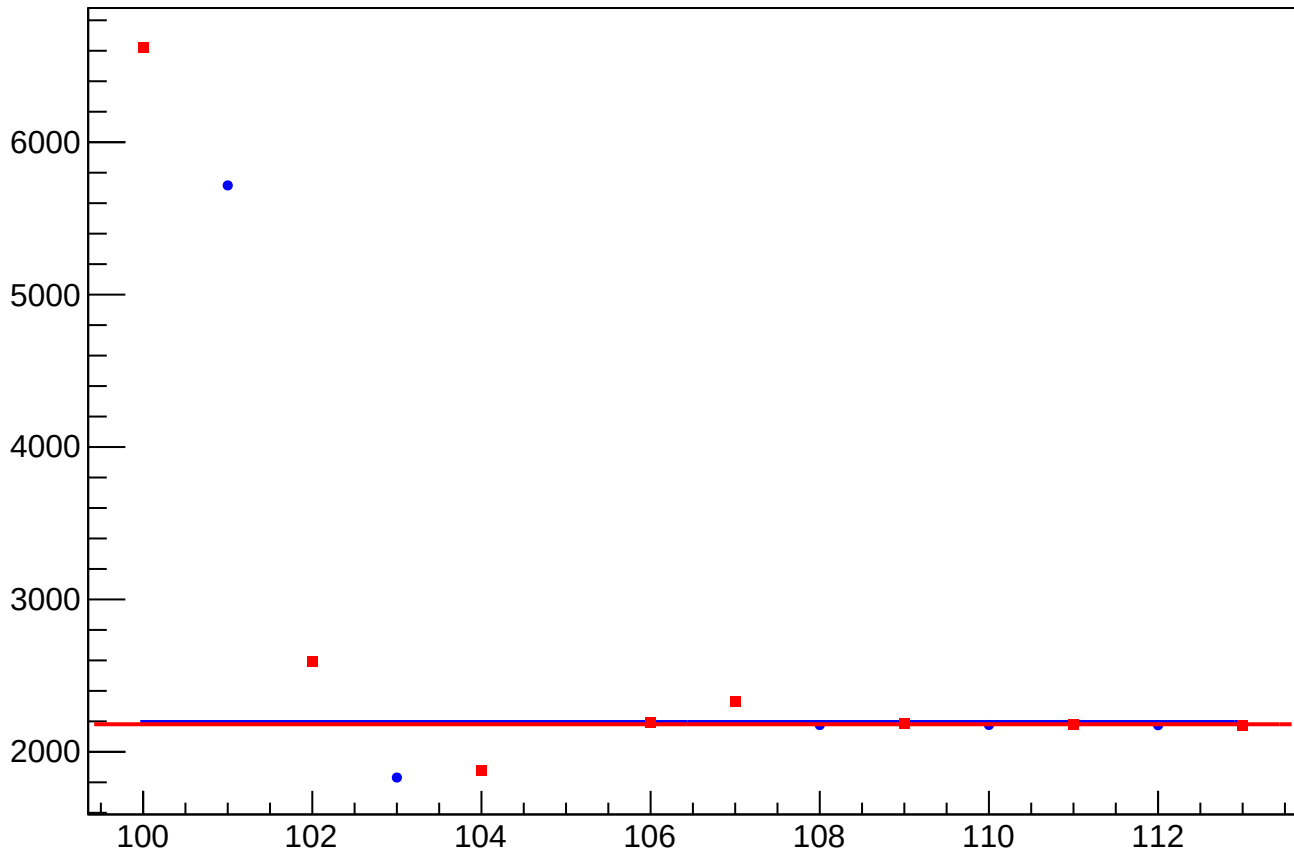
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -266.010+/-948.879  $\chi^2$ /NDF: 15.1/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_avg\_rms vs Slug



Right In: 2195.640 $\pm$ 1.034  $\chi^2$ /NDF: 545236.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2181.010 $\pm$ 0.882  $\chi^2$ /NDF: 118460.0/7

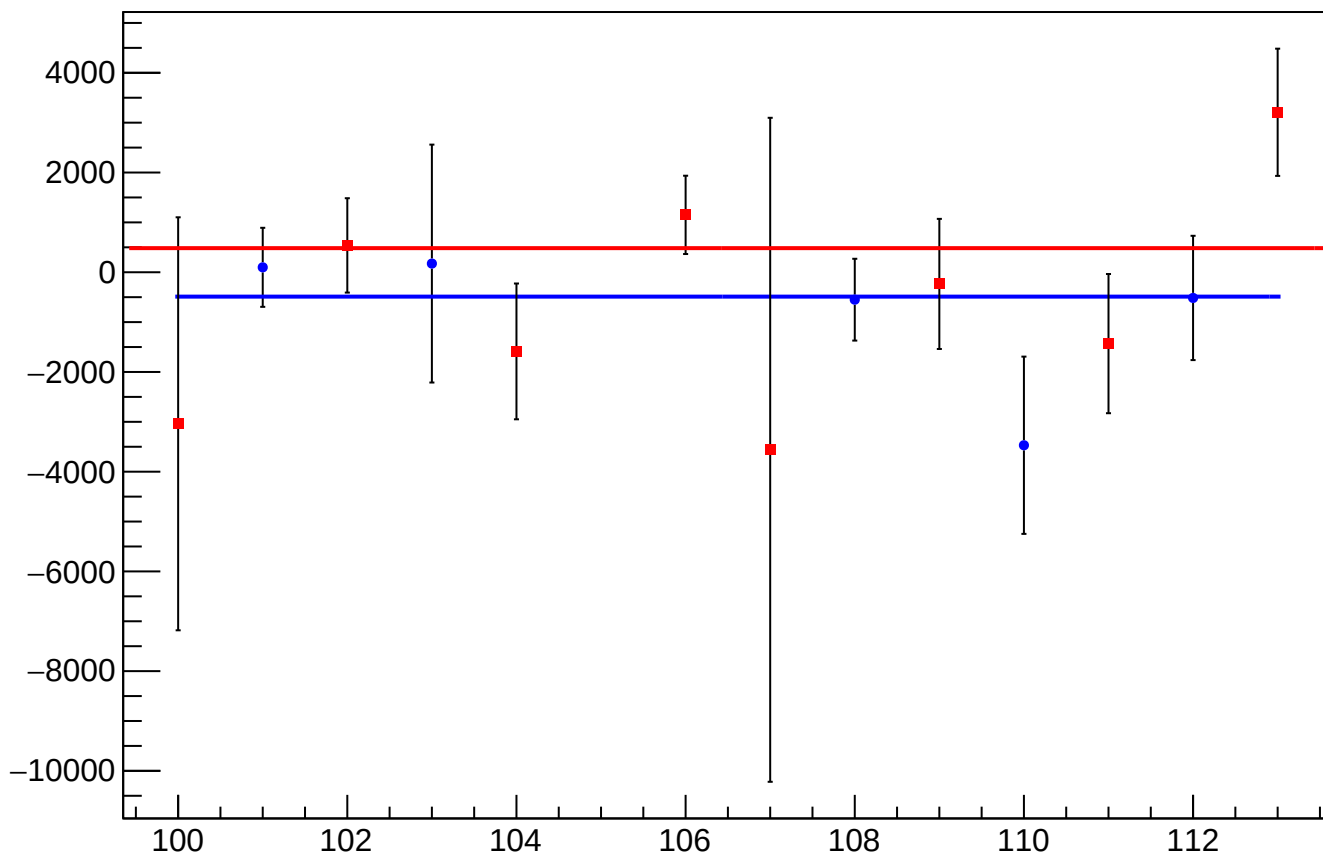
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2187.175 $\pm$ 0.671  $\chi^2$ /NDF: 663812.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_reg\_correction\_mean vs Slug



Right In: -488.816+/-487.153  $\chi^2/\text{NDF}$ : 3.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 483.437+/-443.973  $\chi^2/\text{NDF}$ : 10.9/7

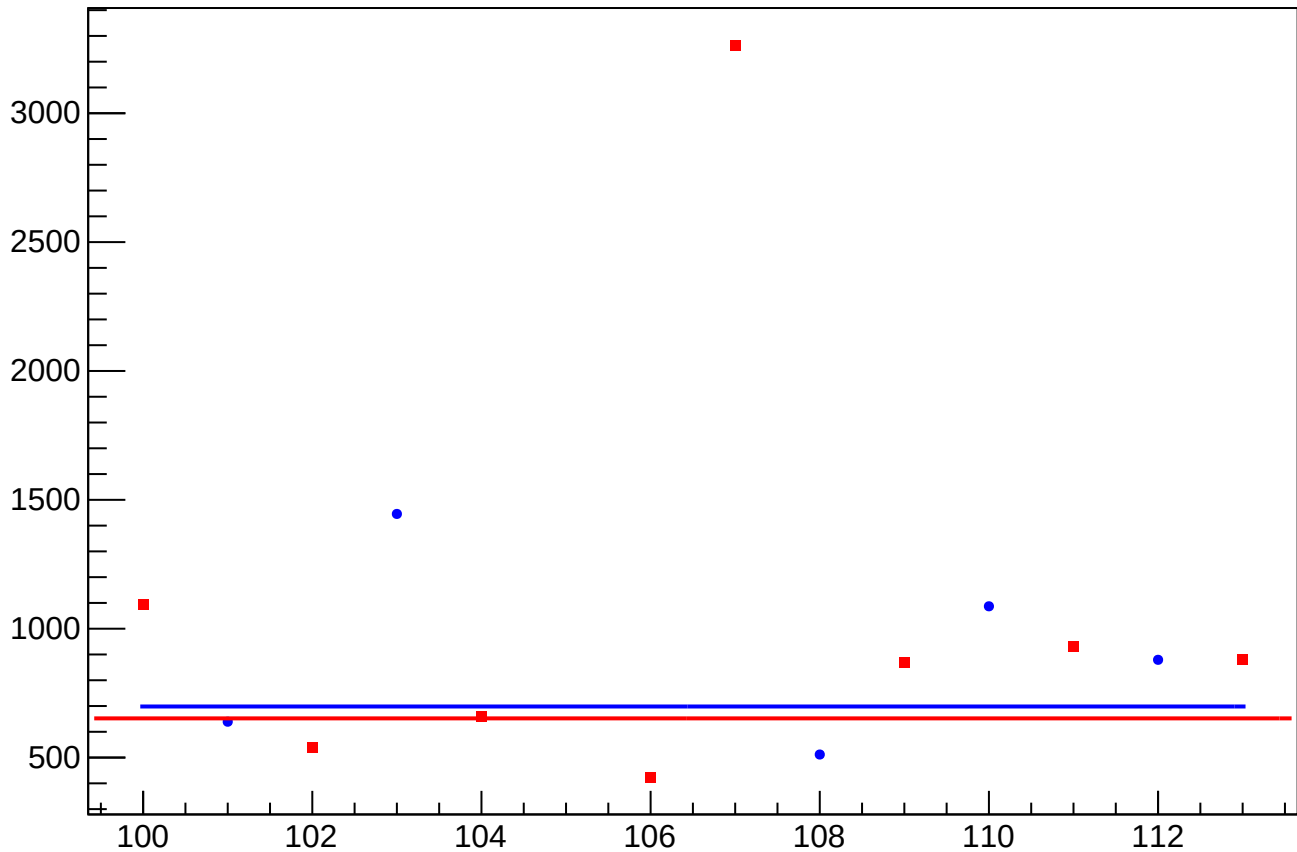
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 42.301+/-328.142  $\chi^2/\text{NDF}$ : 16.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_reg\_correction\_rms vs Slug



Right In: 698.178+/-0.344  $\chi^2/\text{NDF}$ : 448369.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 652.048+/-0.314  $\chi^2/\text{NDF}$ : 728833.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

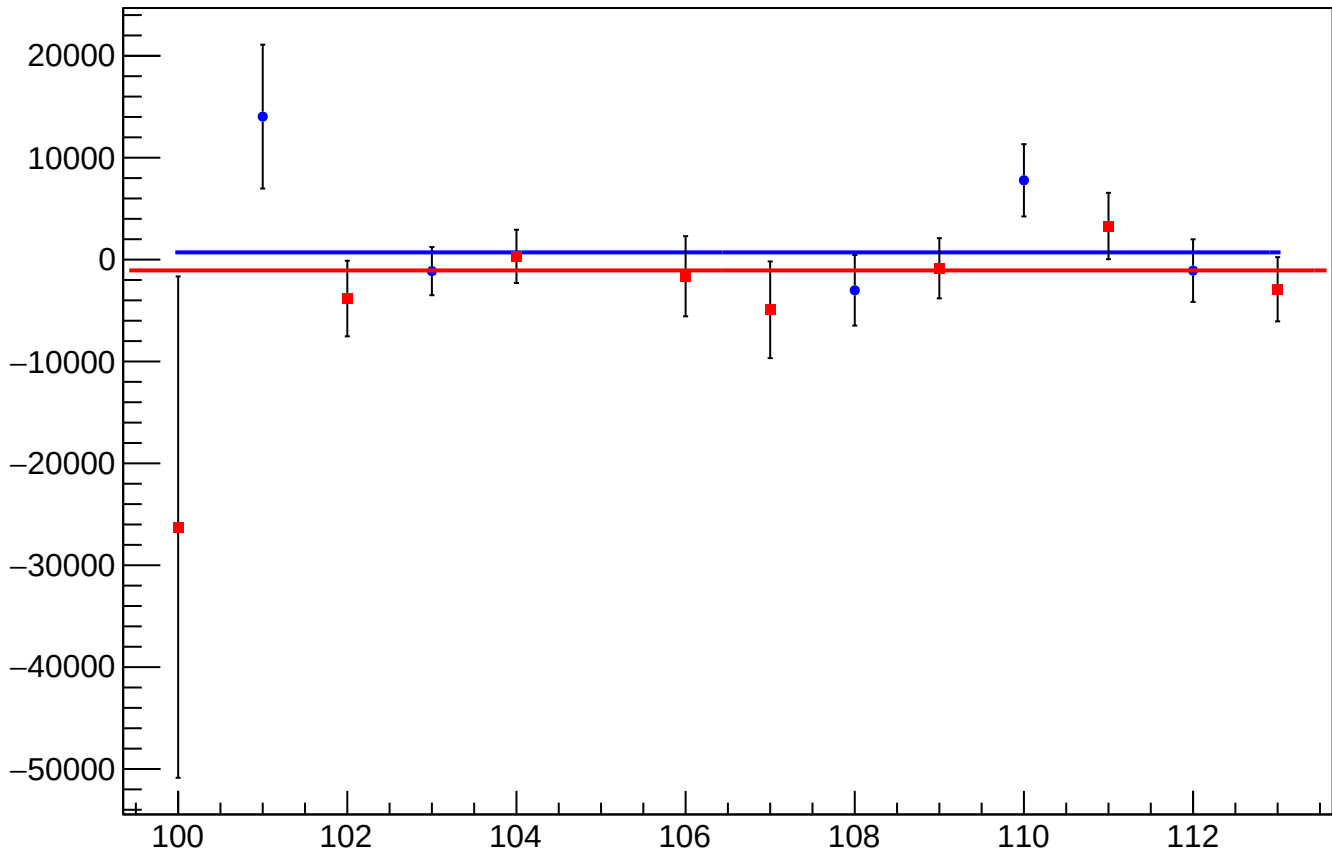
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 672.978+/-0.232  $\chi^2/\text{NDF}$ : 1186999.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_at1\_avg\_mean vs Slug



Right In: 707.928+/-1461.740  $\chi^2/\text{NDF}$ : 9.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1060.963+/-1250.591  $\chi^2/\text{NDF}$ : 4.7/7

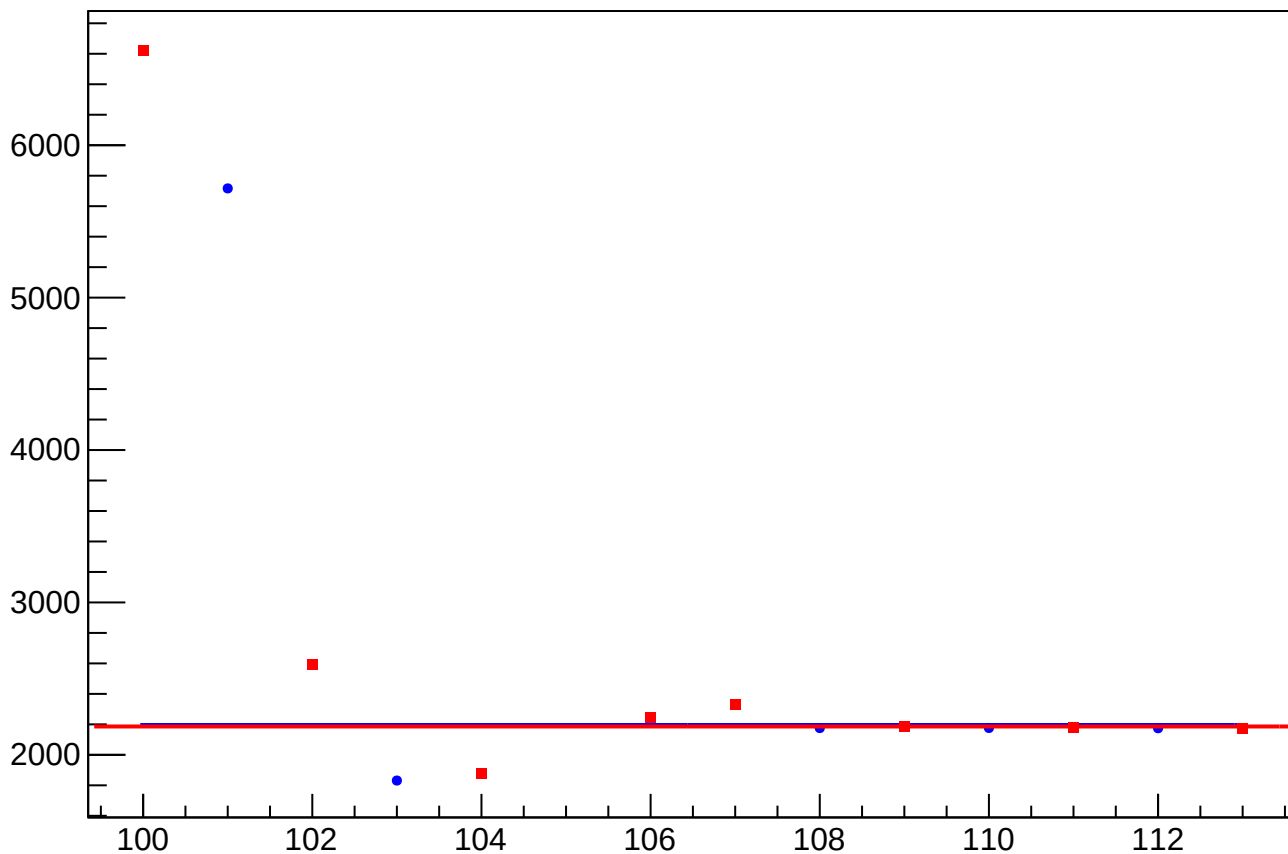
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -313.393+/-950.267  $\chi^2/\text{NDF}$ : 15.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_at1\_avg\_rms vs Slug



Right In: 2195.639+/-1.034  $\chi^2/\text{NDF}$ : 545236.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2186.077+/-0.884  $\chi^2/\text{NDF}$ : 118910.1/7

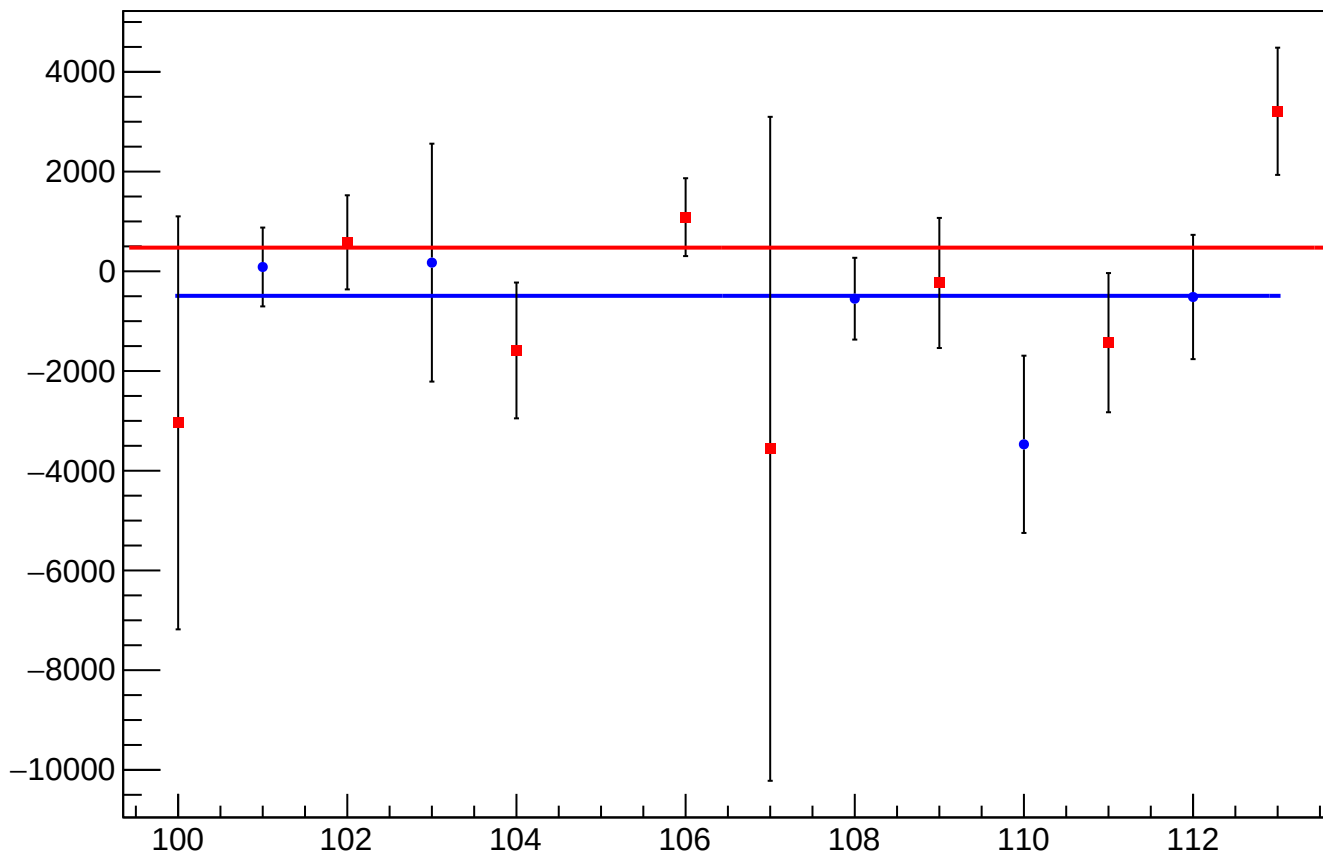
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2190.118+/-0.672  $\chi^2/\text{NDF}$ : 664195.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_cor\_correction\_mean vs Slug



Right In: -492.006+/-486.677  $\chi^2/\text{NDF}$ : 3.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 474.747+/-442.917  $\chi^2/\text{NDF}$ : 10.8/7

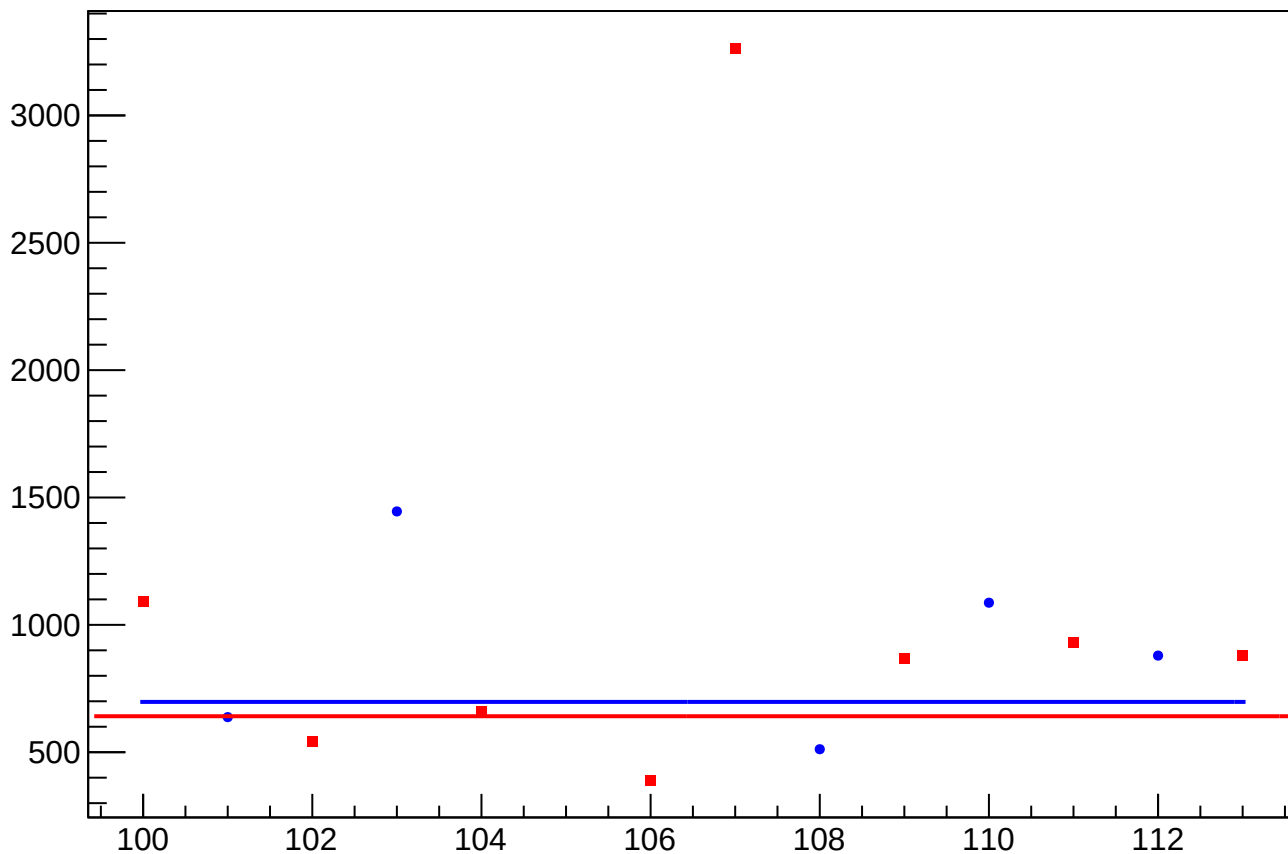
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.780+/-327.570  $\chi^2/\text{NDF}$ : 16.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_cor\_correction\_rms vs Slug



Right In: 697.513+/-0.344  $\chi^2/\text{NDF}$ : 449002.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 641.256+/-0.313  $\chi^2/\text{NDF}$ : 782126.5/7

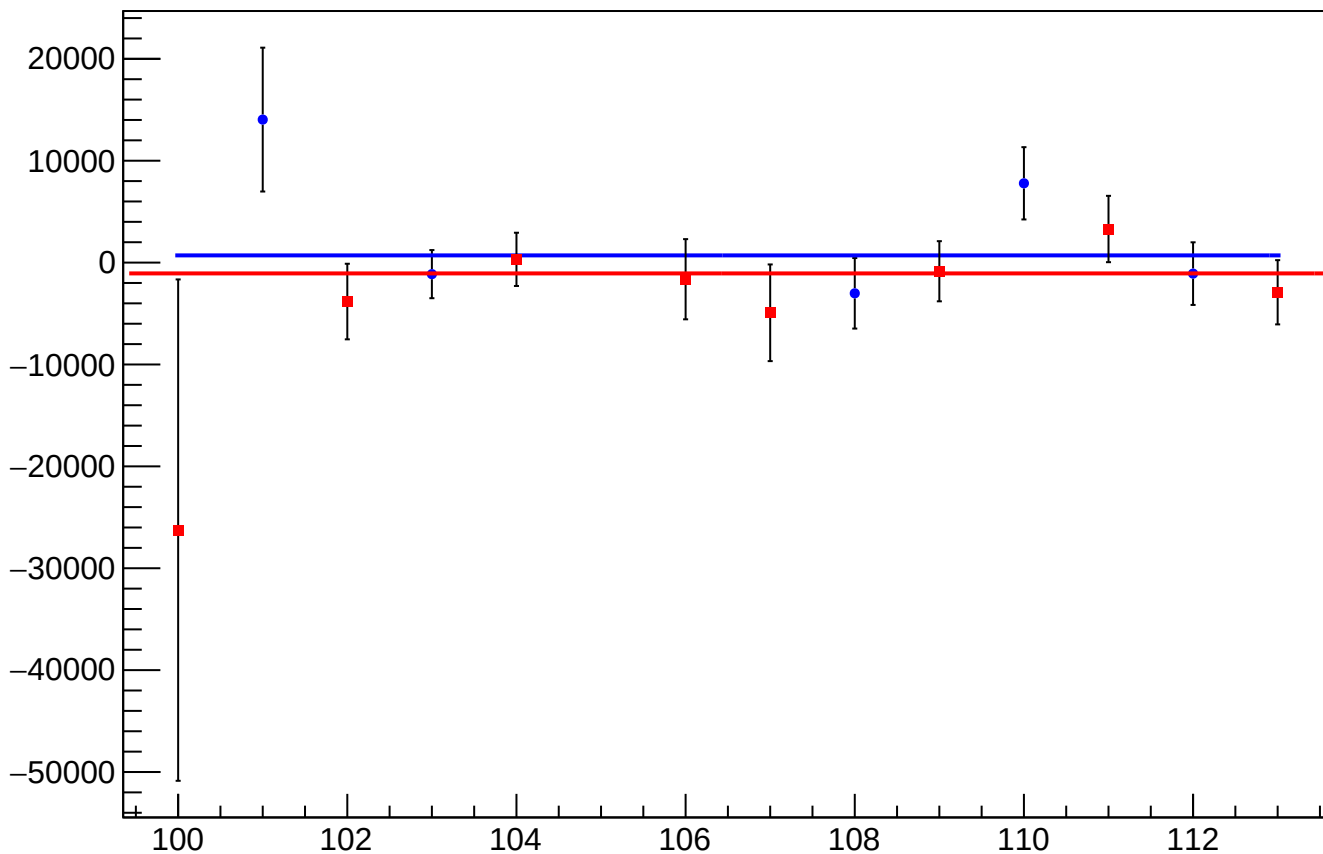
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 666.742+/-0.232  $\chi^2/\text{NDF}$ : 1245746.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_at1\_avg\_mean vs Slug



Right In: 707.928+/-1461.740  $\chi^2/\text{NDF}$ : 9.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1060.963+/-1250.591  $\chi^2/\text{NDF}$ : 4.7/7

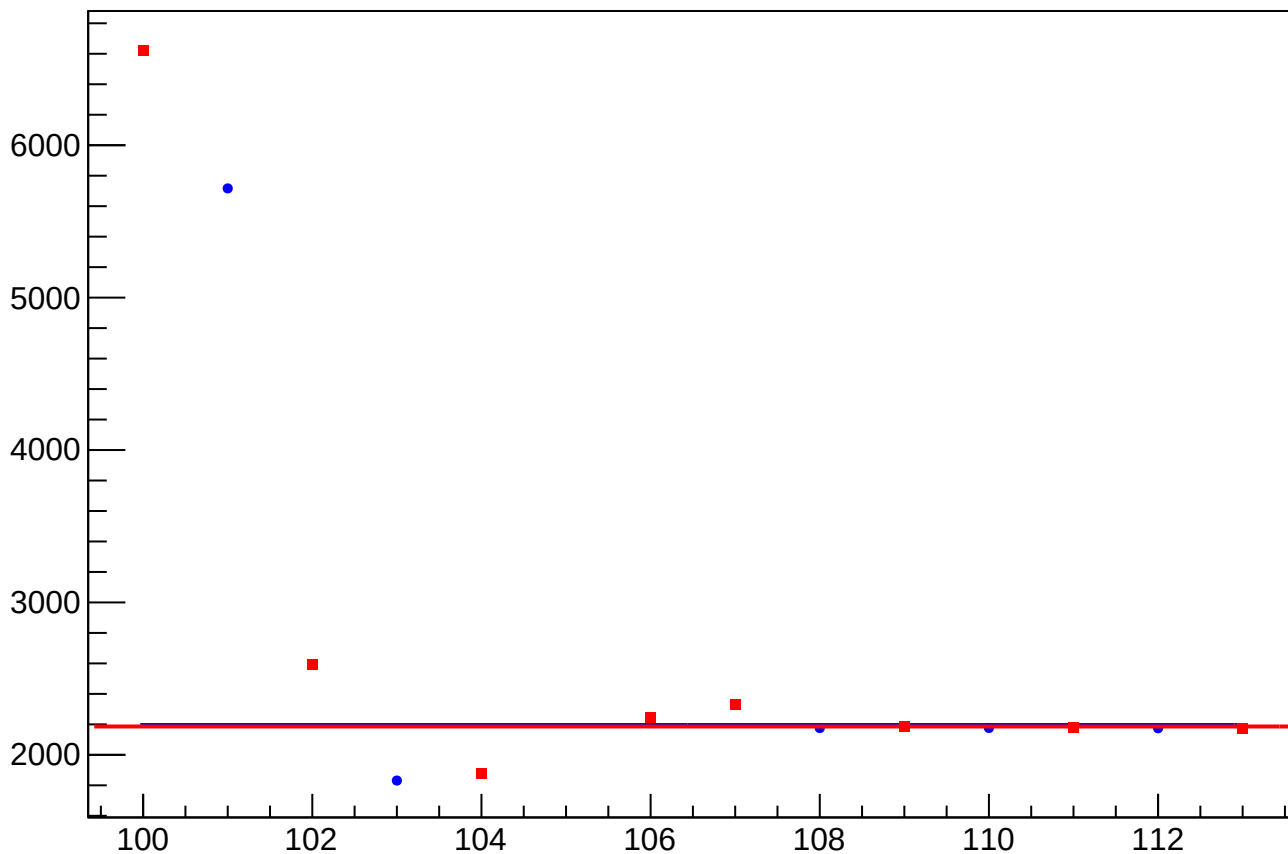
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -313.393+/-950.267  $\chi^2/\text{NDF}$ : 15.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_at1\_avg\_rms vs Slug



Right In: 2195.639 $\pm$ 1.034  $\chi^2$ /NDF: 545236.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2186.077 $\pm$ 0.884  $\chi^2$ /NDF: 118910.1/7

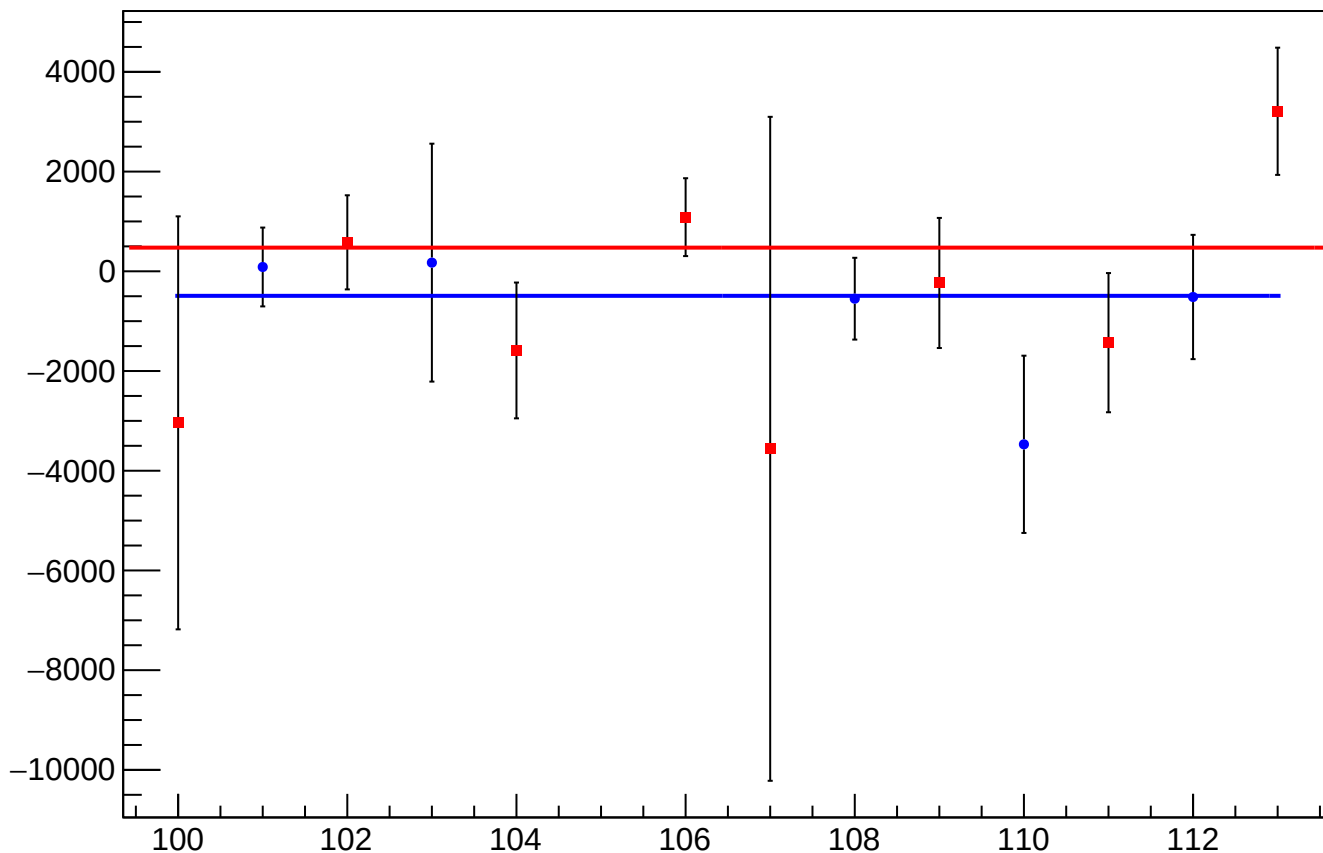
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2190.118 $\pm$ 0.672  $\chi^2$ /NDF: 664195.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -492.006+/-486.677  $\chi^2/\text{NDF}$ : 3.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 474.747+/-442.917  $\chi^2/\text{NDF}$ : 10.8/7

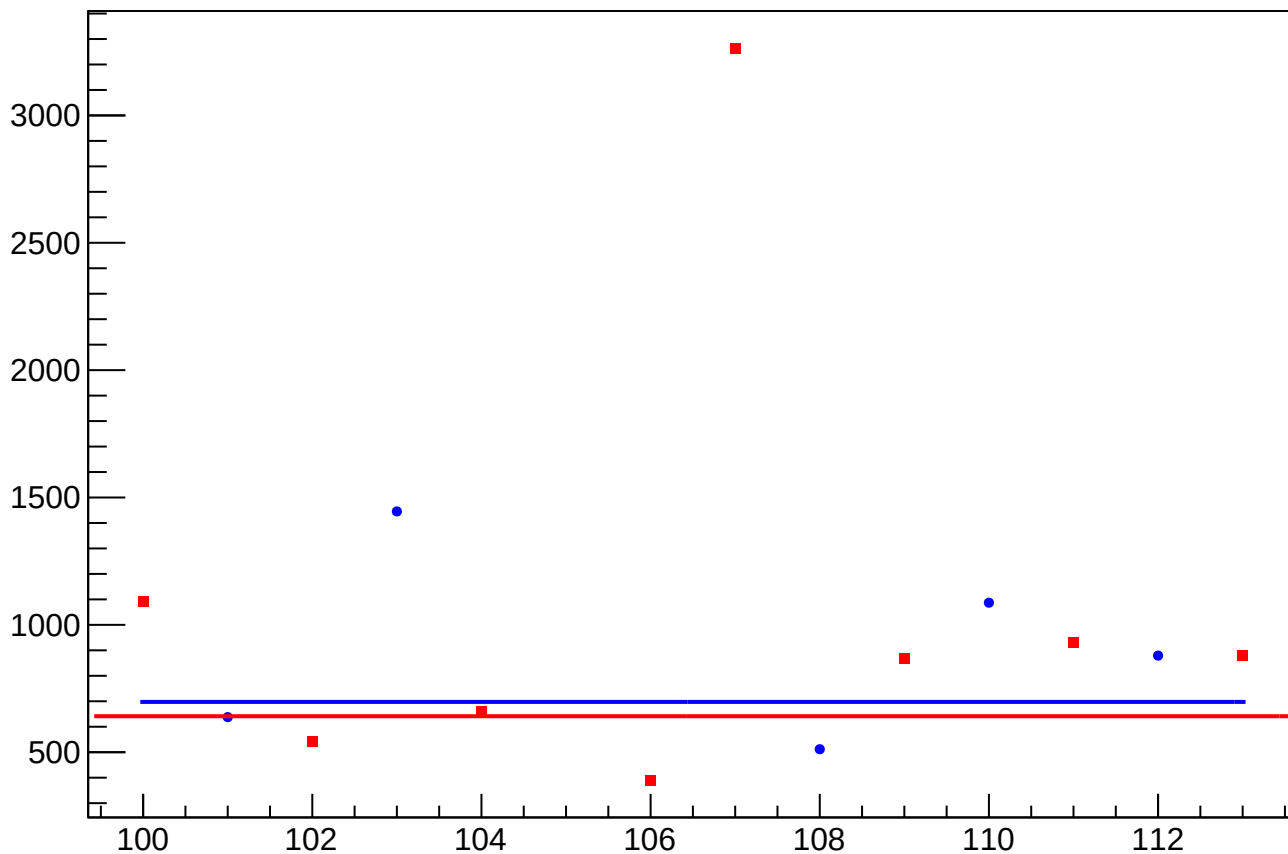
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.780+/-327.570  $\chi^2/\text{NDF}$ : 16.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 697.513+/-0.344  $\chi^2/\text{NDF}$ : 449002.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 641.256+/-0.313  $\chi^2/\text{NDF}$ : 782126.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

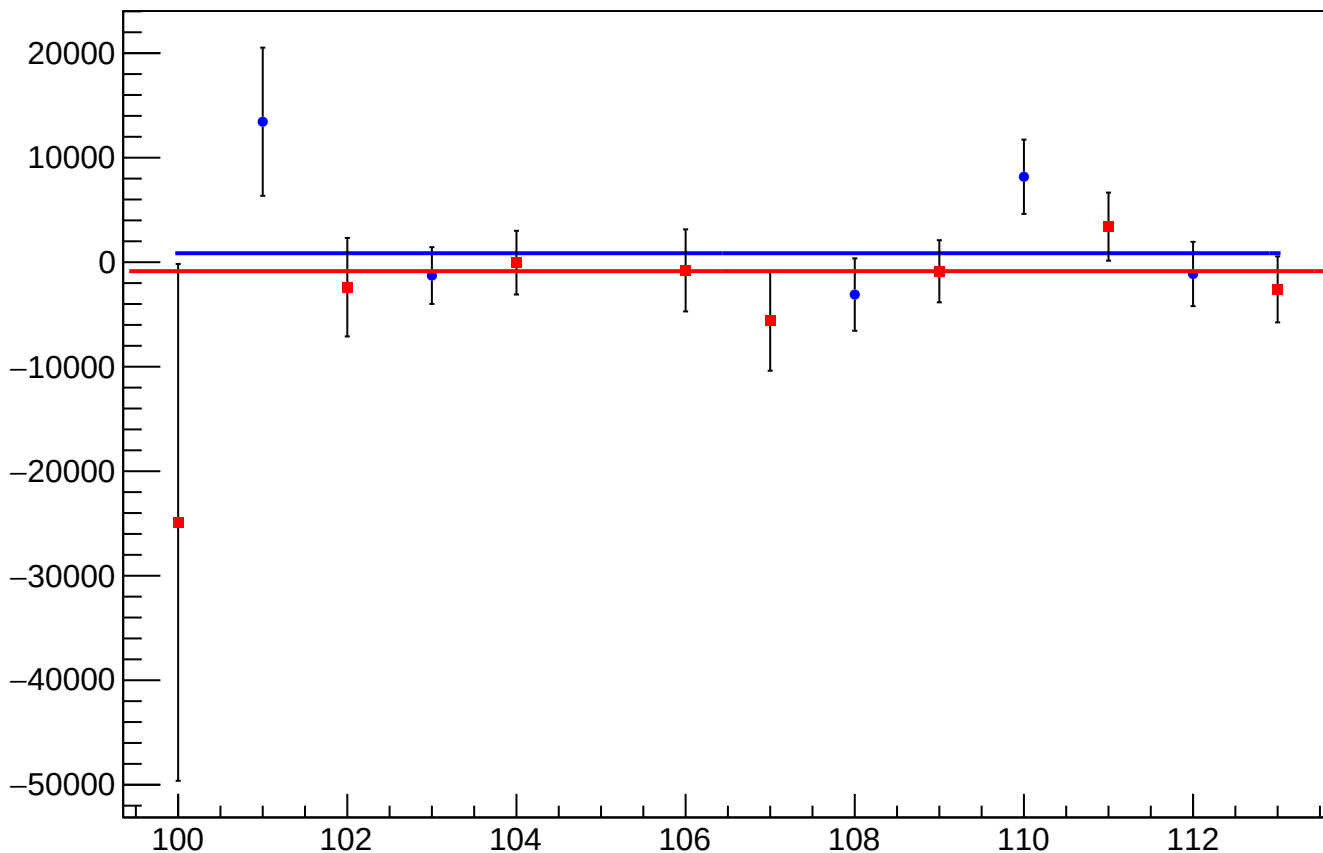
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 666.742+/-0.232  $\chi^2/\text{NDF}$ : 1245746.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_at1\_avg\_mean vs Slug



Right In: 859.461+/-1536.601  $\chi^2/\text{NDF}$ : 9.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -858.523+/-1323.431  $\chi^2/\text{NDF}$ : 4.1/7

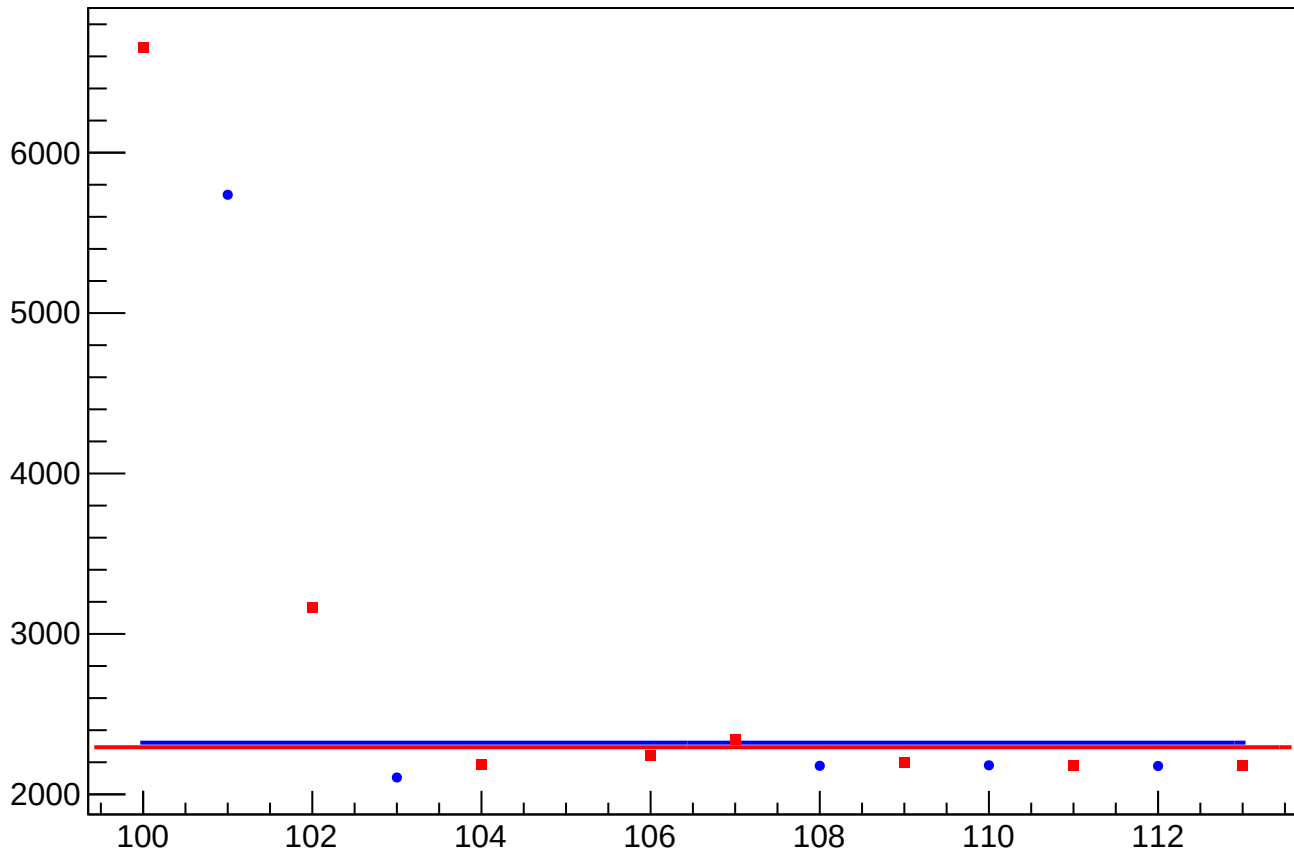
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -126.872+/-1002.775  $\chi^2/\text{NDF}$ : 14.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_at1\_avg\_rms vs Slug



Right In: 2322.316+/-1.087  $\chi^2/\text{NDF}$ : 488447.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2293.751+/-0.936  $\chi^2/\text{NDF}$ : 140801.3/7

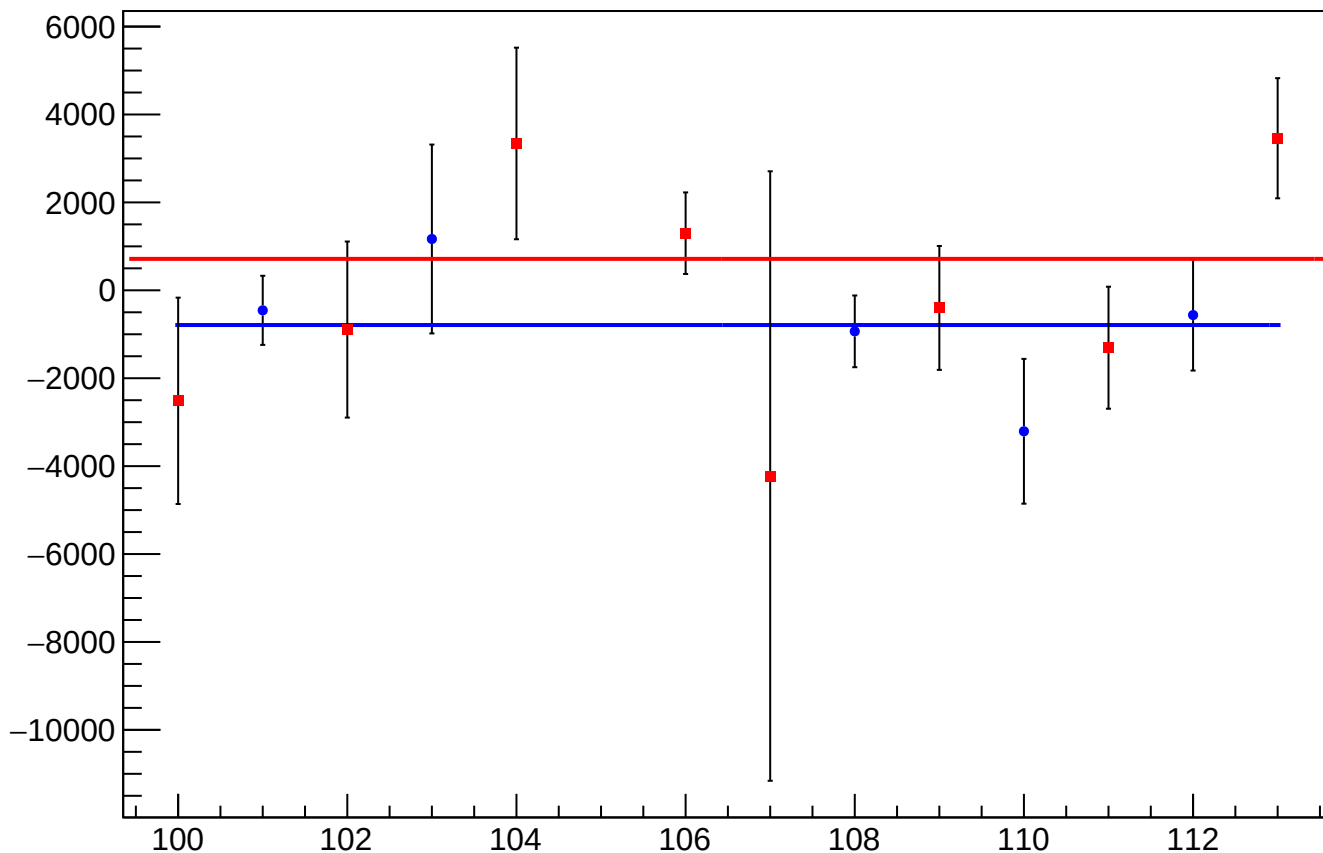
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2305.916+/-0.709  $\chi^2/\text{NDF}$ : 629645.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_dit\_correction\_mean vs Slug



Right In: -789.684 $\pm$ 480.356  $\chi^2$ /NDF: 3.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 715.342 $\pm$ 543.752  $\chi^2$ /NDF: 11.7/7

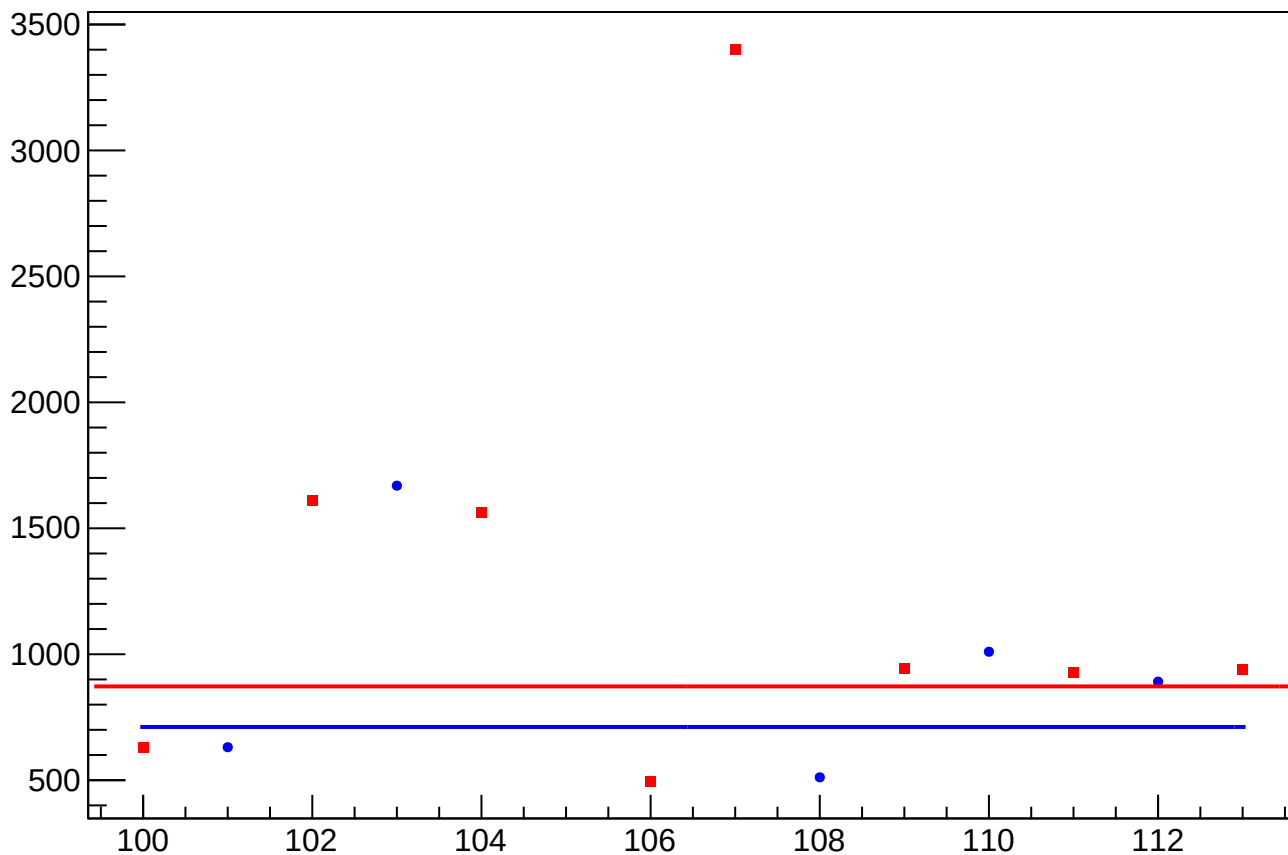
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -129.981 $\pm$ 360.000  $\chi^2$ /NDF: 19.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_dit\_correction\_rms vs Slug



Right In: 711.335+/-0.340  $\chi^2/\text{NDF}$ : 645042.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 872.355+/-0.384  $\chi^2/\text{NDF}$ : 1104027.4/7

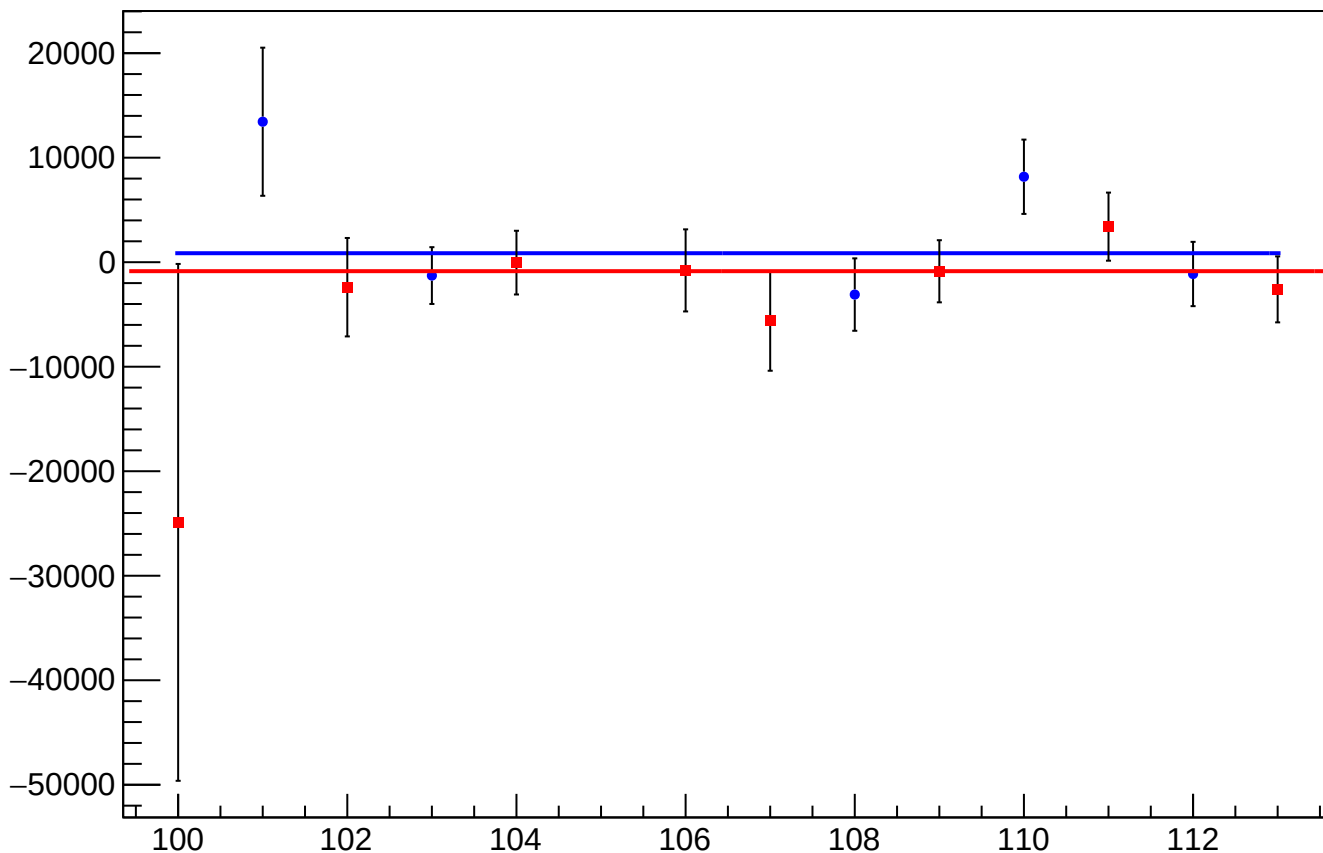
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 781.915+/-0.255  $\chi^2/\text{NDF}$ : 1847576.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_at1\_avg\_mean vs Slug



Right In: 859.458+/-1536.600  $\chi^2/\text{NDF}$ : 9.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -858.519+/-1323.430  $\chi^2/\text{NDF}$ : 4.1/7

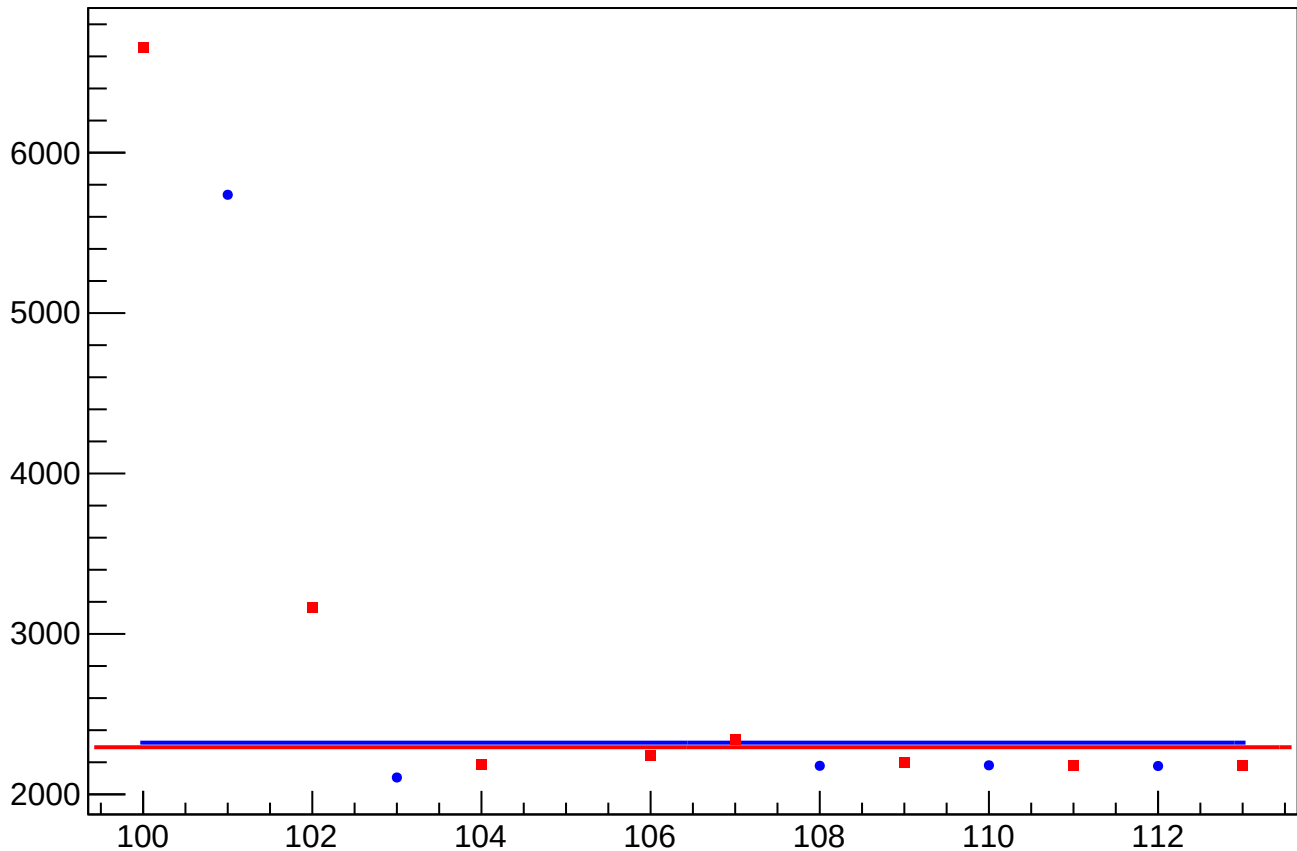
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -126.871+/-1002.774  $\chi^2/\text{NDF}$ : 14.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_at1\_avg\_rms vs Slug



Right In: 2322.314+/-1.087  $\chi^2/\text{NDF}$ : 488447.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2293.749+/-0.936  $\chi^2/\text{NDF}$ : 140800.7/7

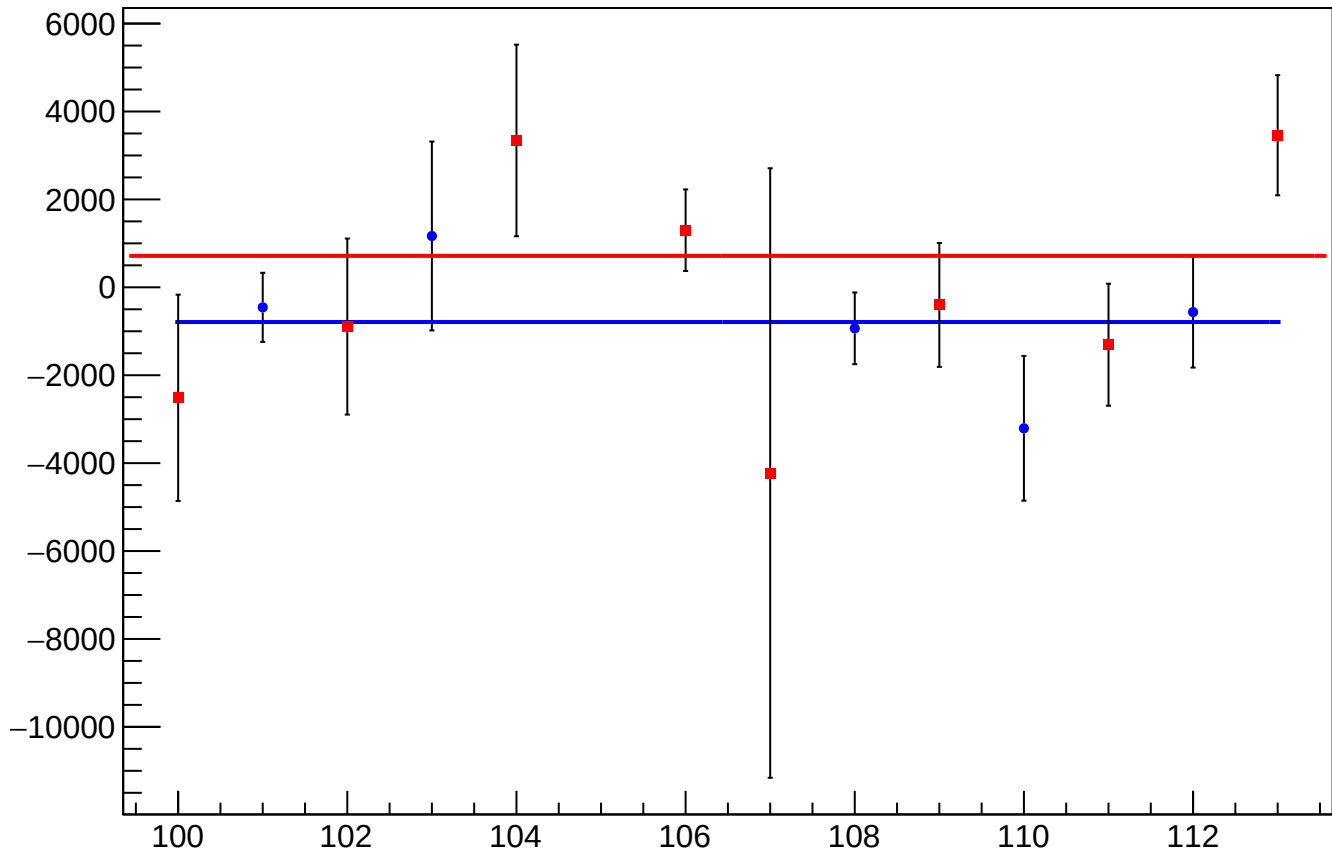
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2305.914+/-0.709  $\chi^2/\text{NDF}$ : 629645.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -789.682+/-480.356  $\chi^2/\text{NDF}$ : 3.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 715.343+/-543.752  $\chi^2/\text{NDF}$ : 11.7/7

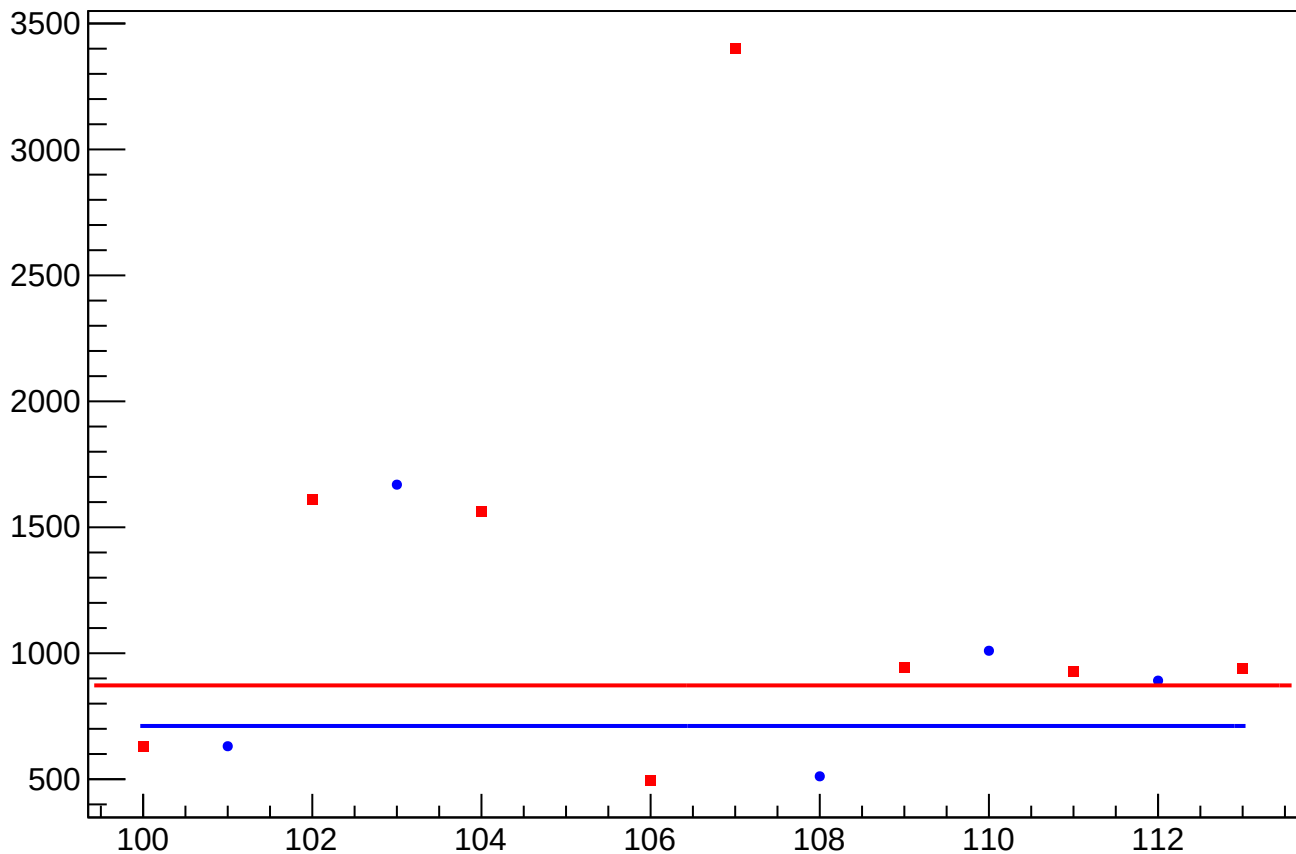
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -129.981+/-360.000  $\chi^2/\text{NDF}$ : 19.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 711.334 $\pm$ 0.340  $\chi^2$ /NDF: 645045.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 872.354 $\pm$ 0.384  $\chi^2$ /NDF: 1104032.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

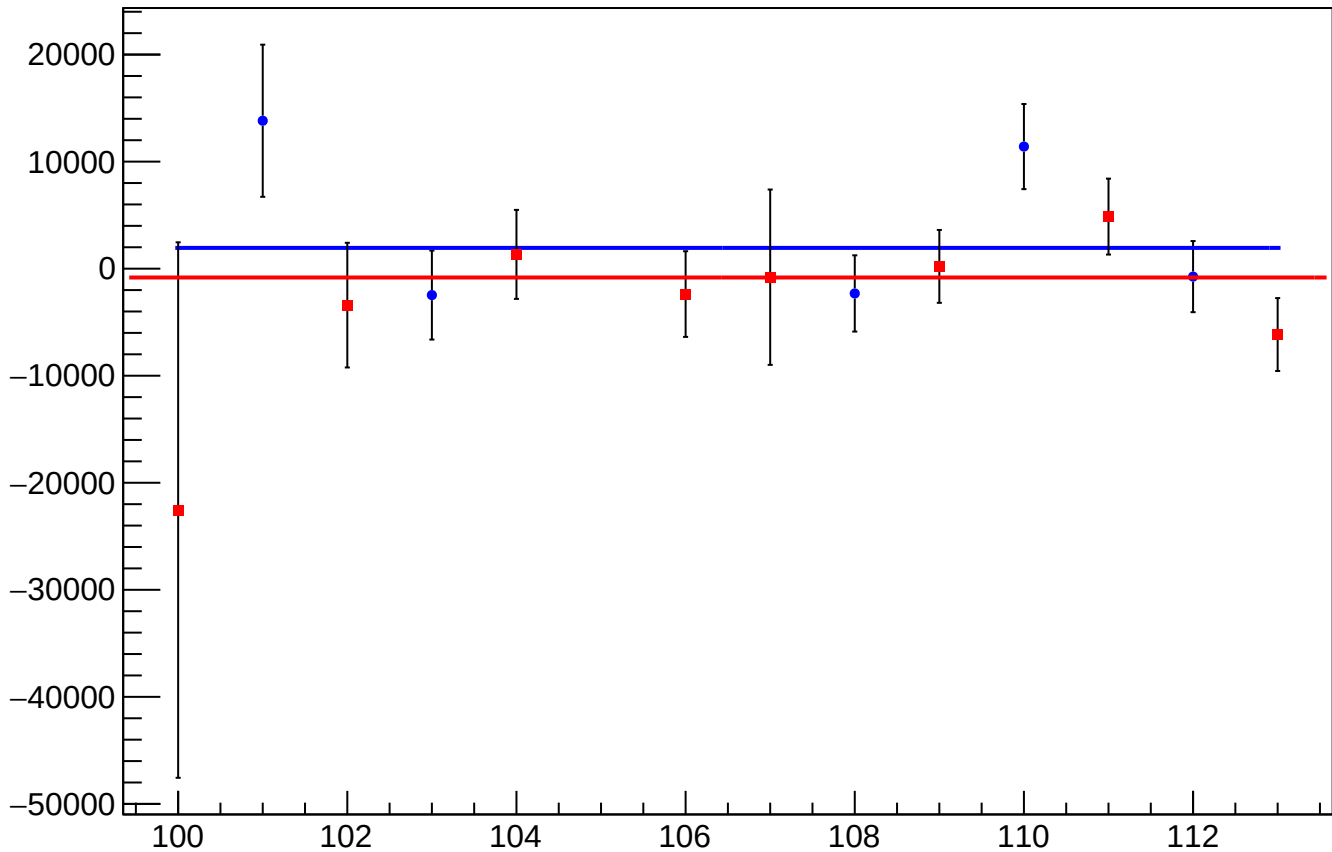
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 781.915 $\pm$ 0.255  $\chi^2$ /NDF: 1847584.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_at1\_avg\_mean vs Slug



Right In: 1940.808+/-1795.007  $\chi^2/\text{NDF}$ : 11.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -824.465+/-1545.855  $\chi^2/\text{NDF}$ : 6.5/7

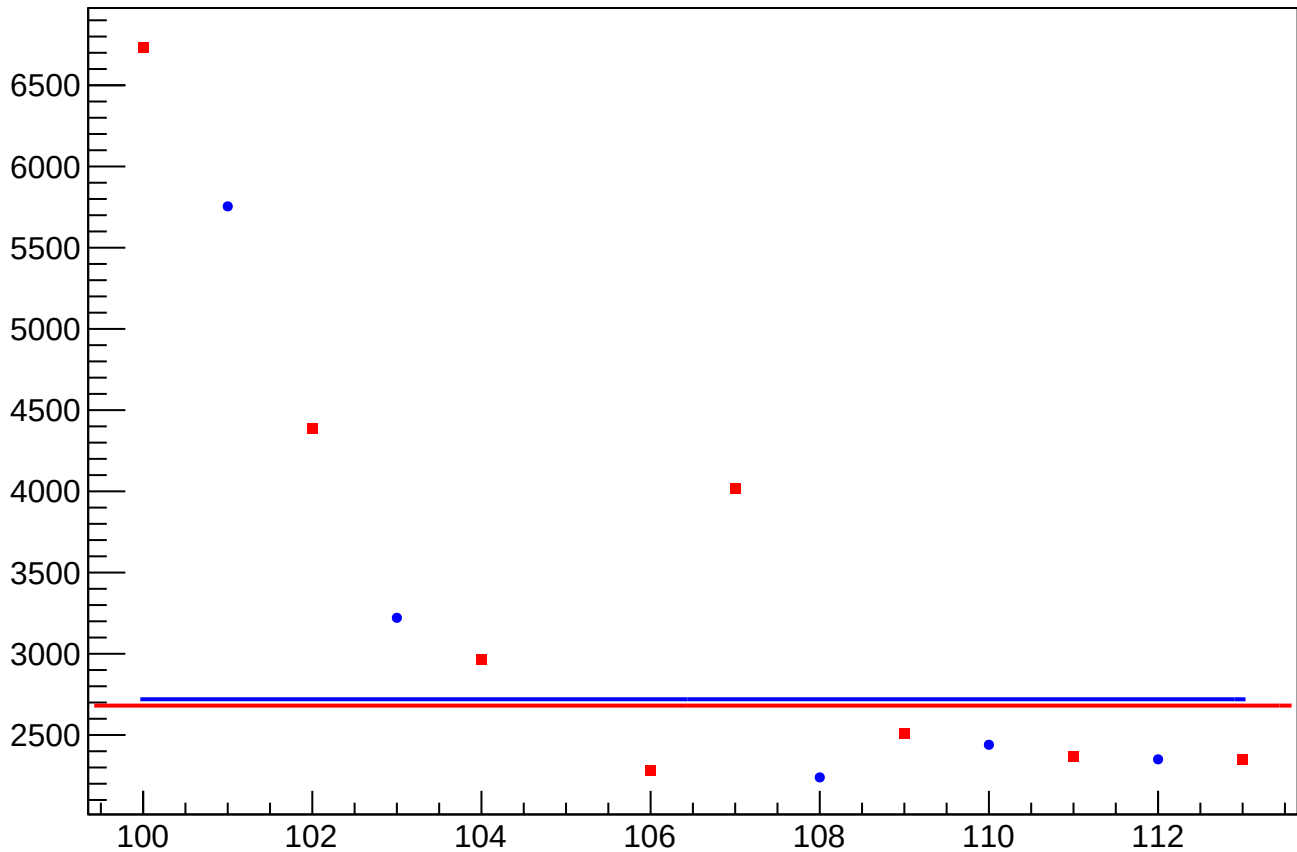
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 353.087+/-1171.351  $\chi^2/\text{NDF}$ : 19.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_rms vs Slug



Right In: 2719.967+/-1.269  $\chi^2/\text{NDF}$ : 464973.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2681.118+/-1.093  $\chi^2/\text{NDF}$ : 345798.5/7

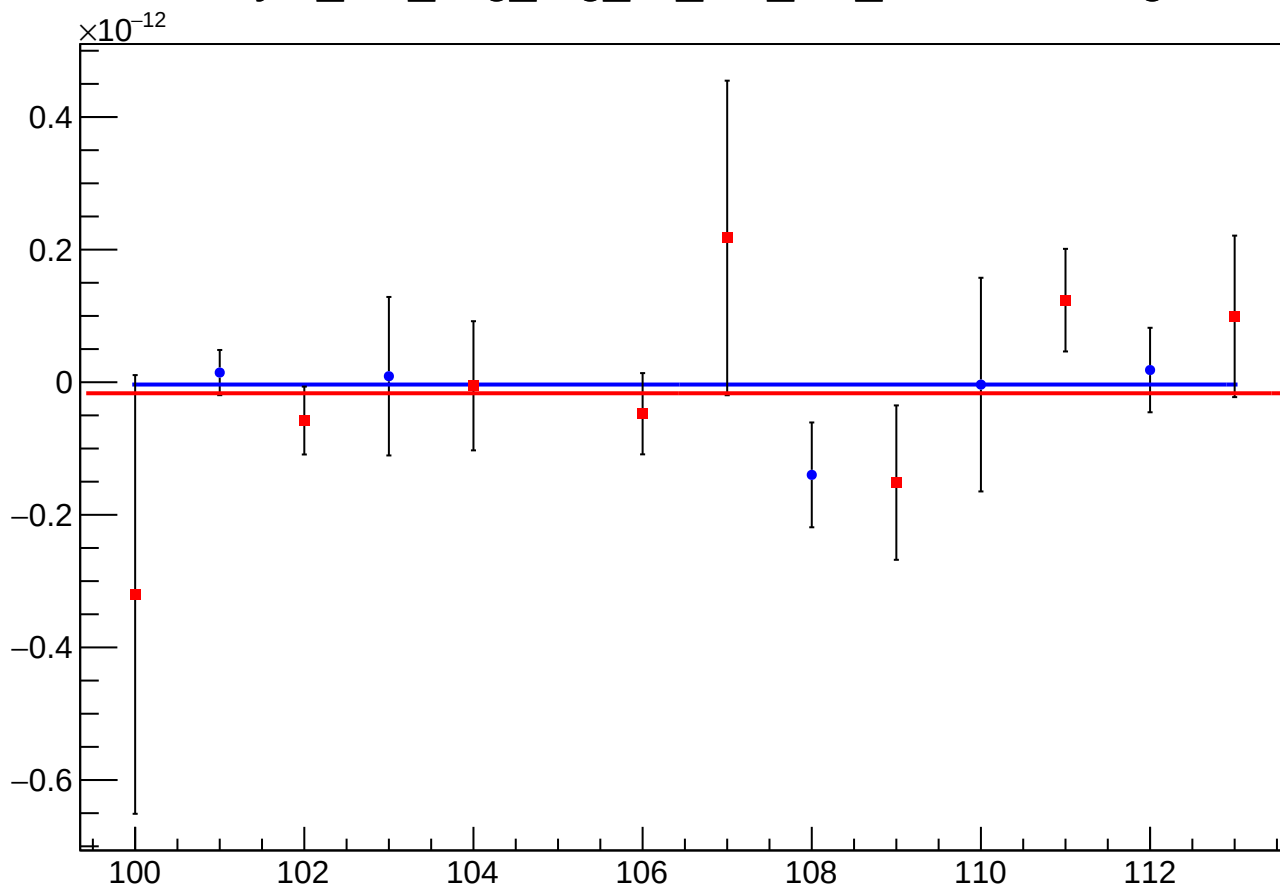
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2697.661+/-0.828  $\chi^2/\text{NDF}$ : 811309.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 3.4/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 8.3/7

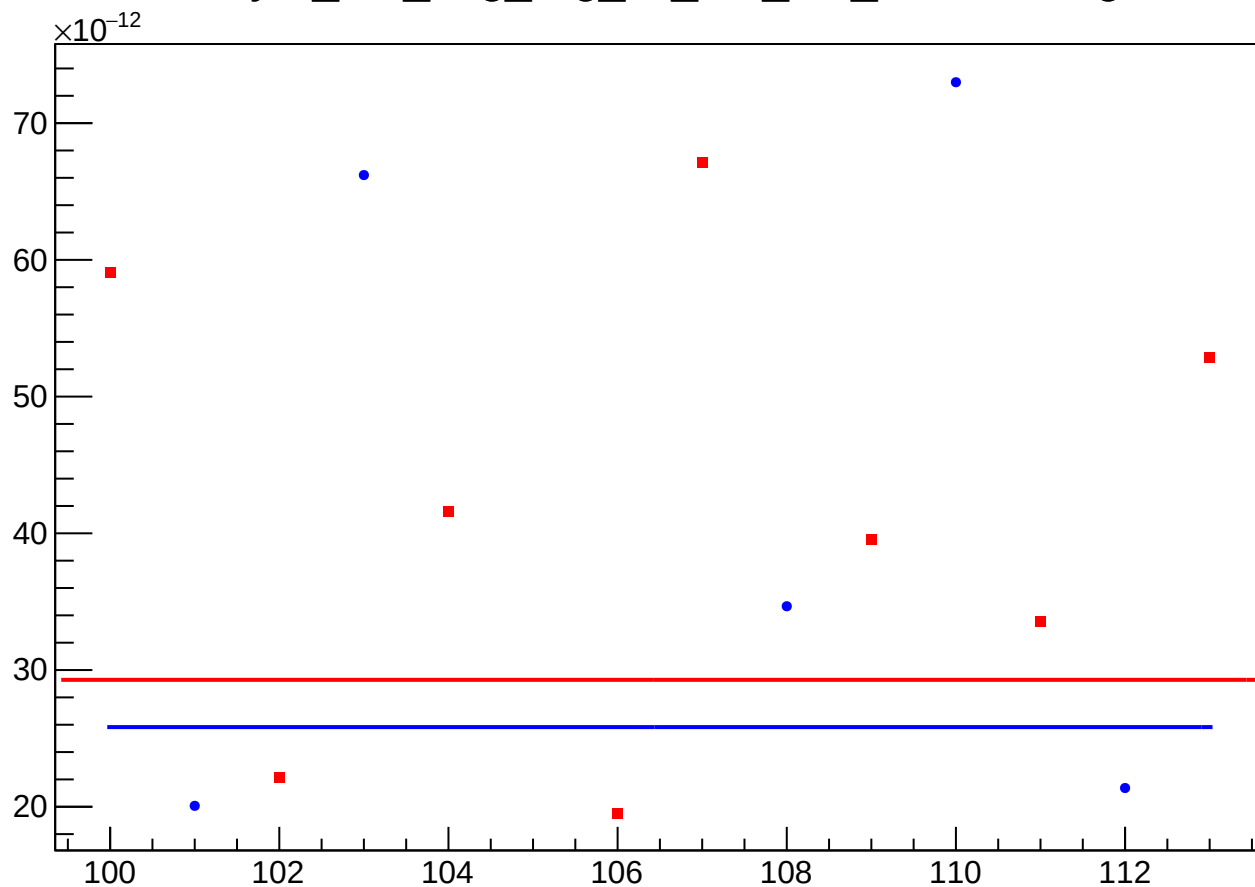
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 11.8/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 491385.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 285122.5/7

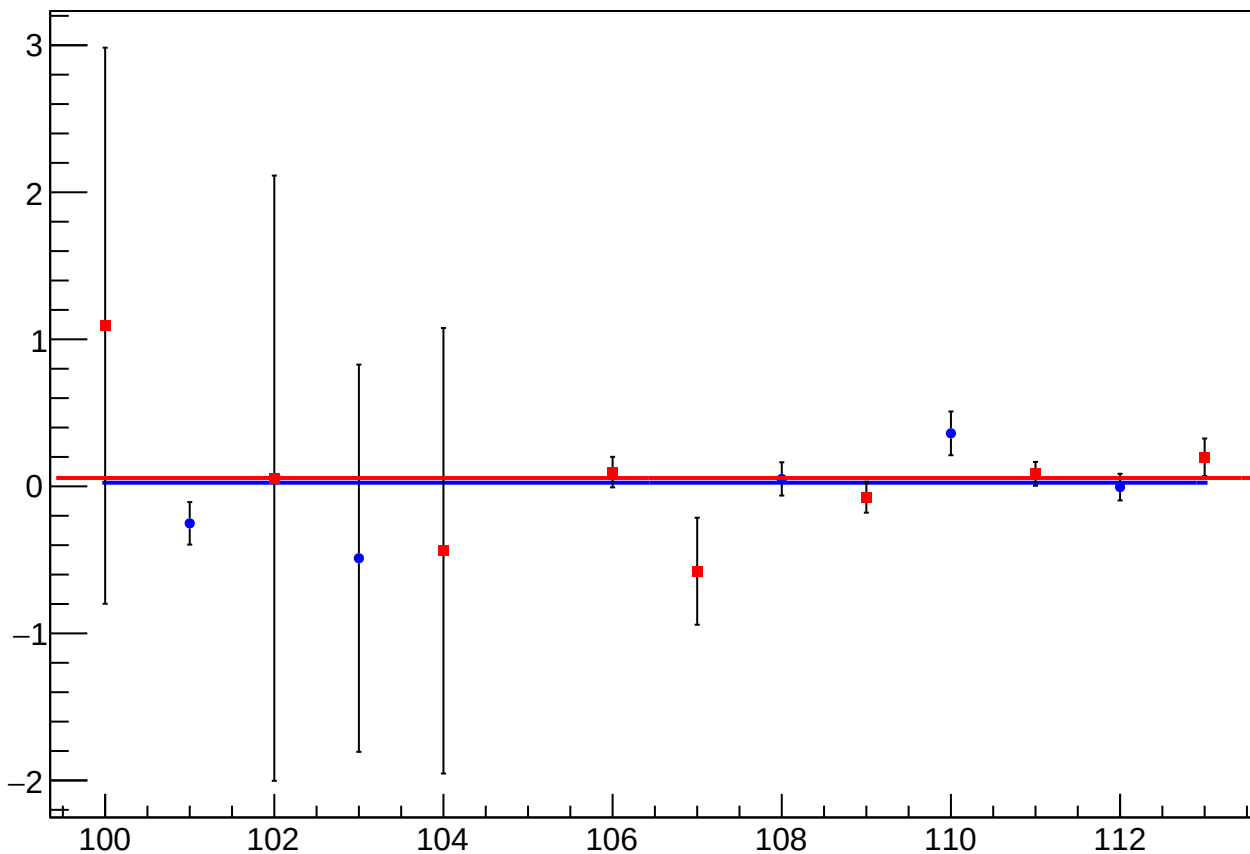
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 791035.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.025 $\pm$ 0.058  $\chi^2$ /NDF: 9.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.057 $\pm$ 0.050  $\chi^2$ /NDF: 6.5/7

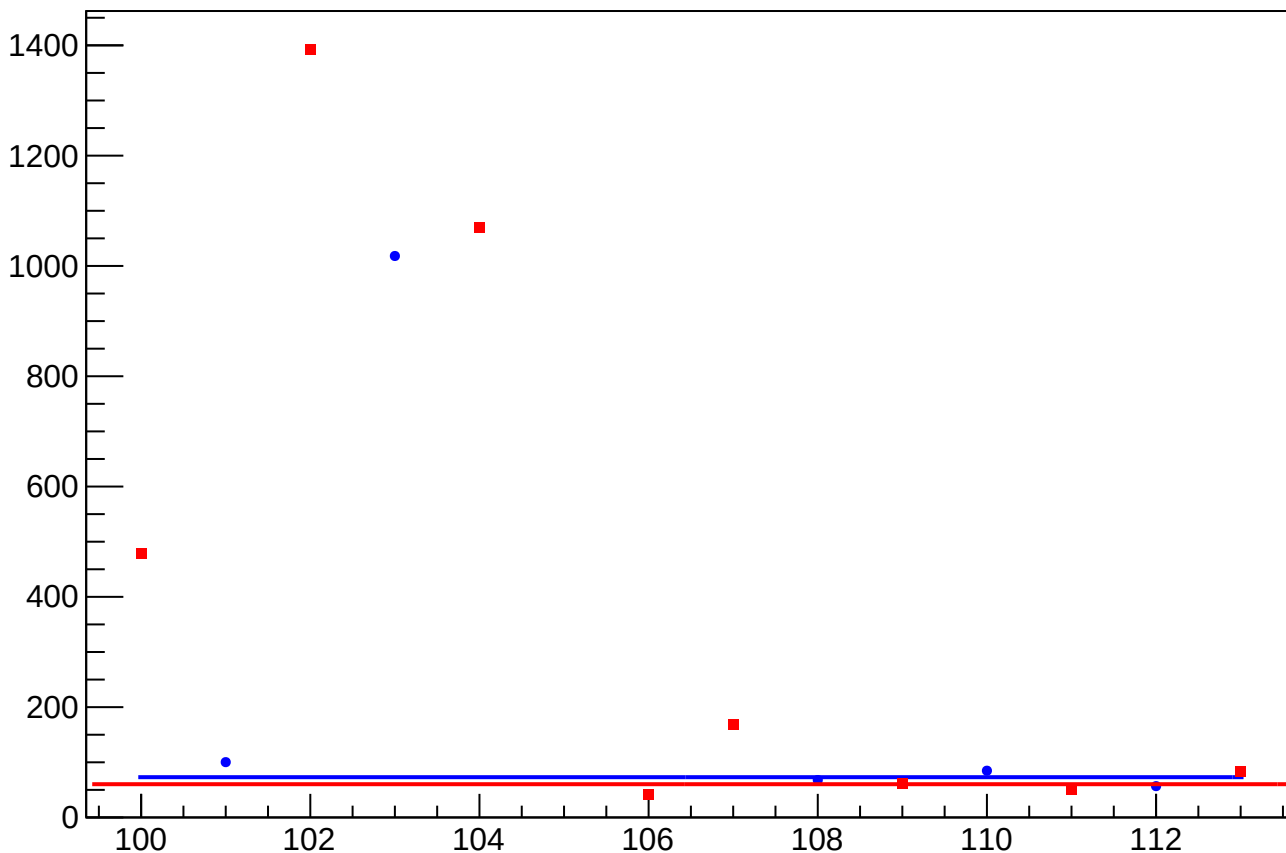
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.044 $\pm$ 0.038  $\chi^2$ /NDF: 15.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 73.025 $\pm$ 0.041  $\chi^2$ /NDF: 1181901.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 60.297 $\pm$ 0.035  $\chi^2$ /NDF: 2159212.7/7

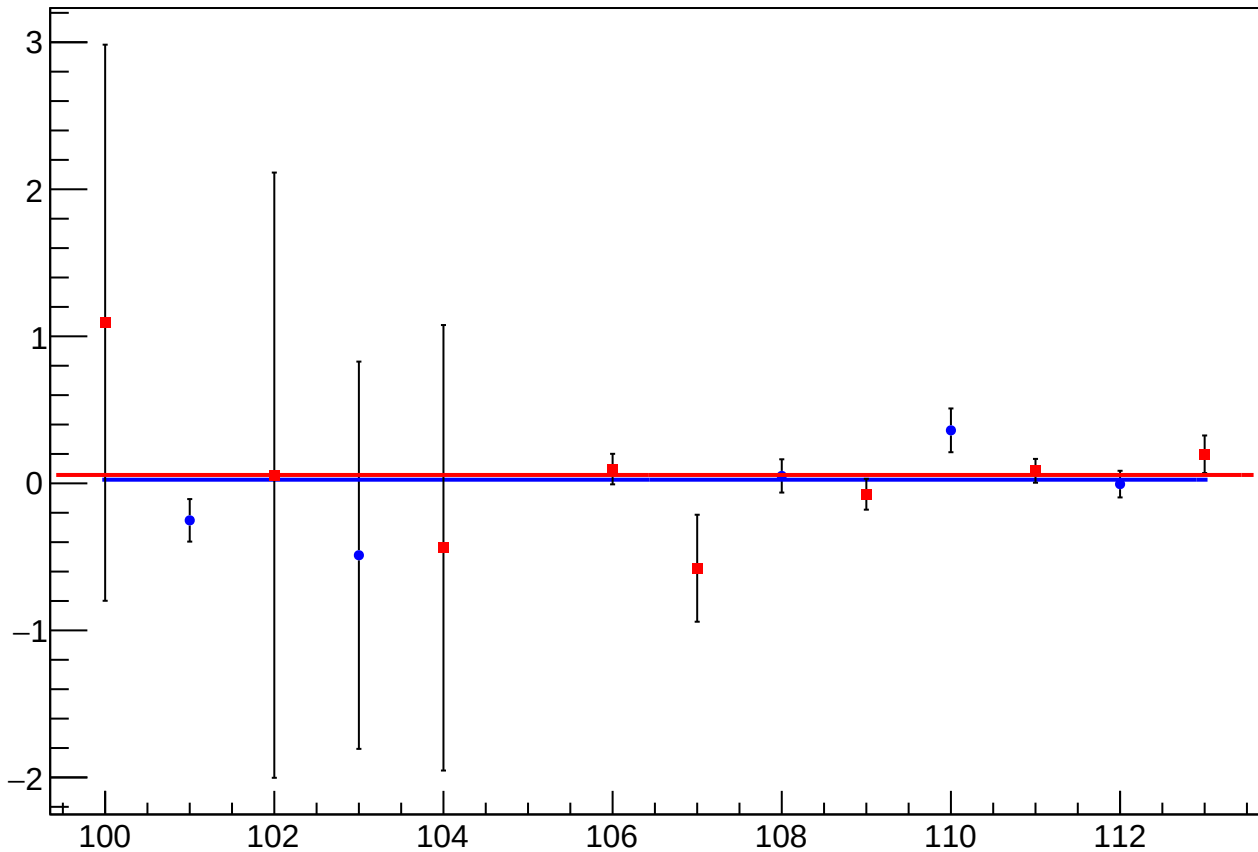
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 65.637 $\pm$ 0.027  $\chi^2$ /NDF: 3396310.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.025 $\pm$ 0.058  $\chi^2$ /NDF: 9.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.057 $\pm$ 0.050  $\chi^2$ /NDF: 6.5/7

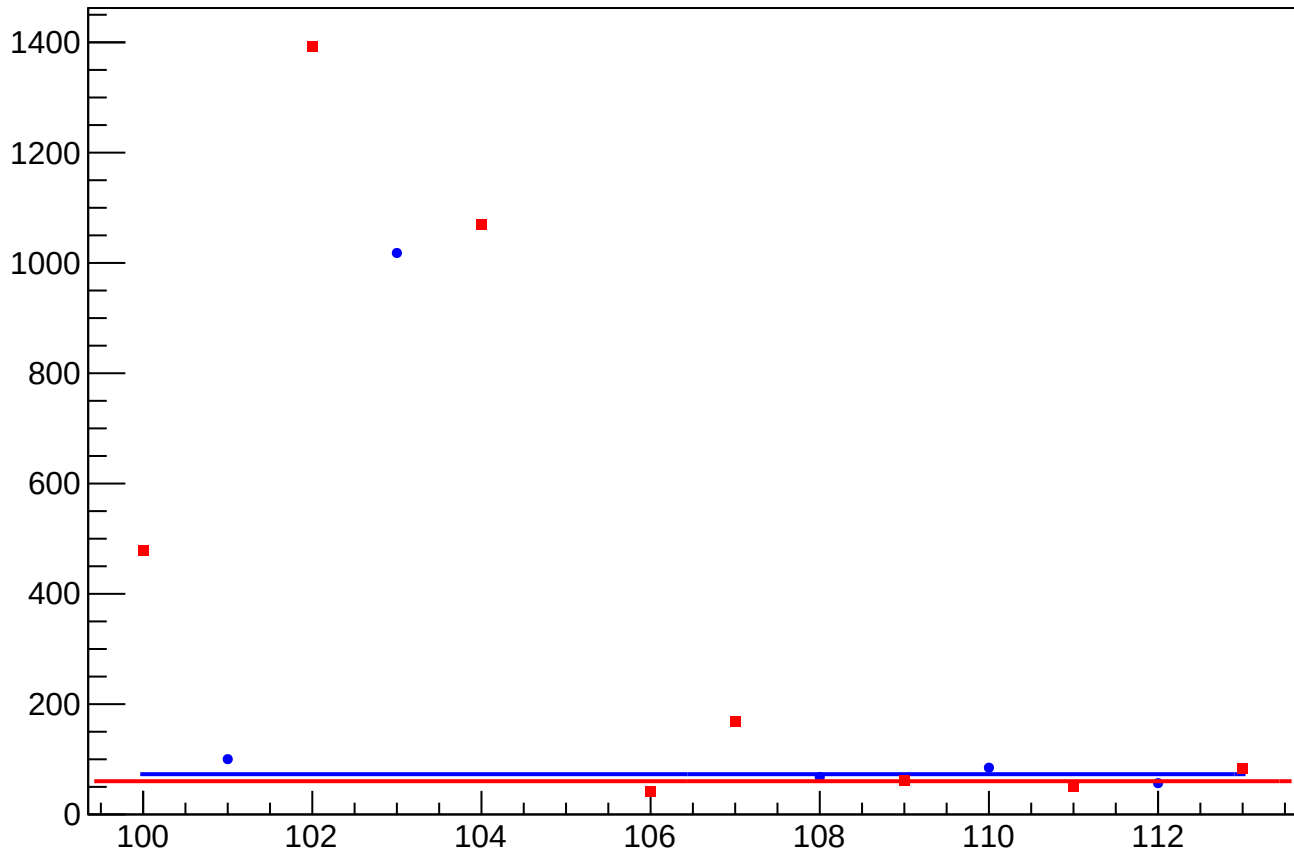
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.044 $\pm$ 0.038  $\chi^2$ /NDF: 15.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 73.025 $\pm$ 0.041  $\chi^2$ /NDF: 1181901.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 60.297 $\pm$ 0.035  $\chi^2$ /NDF: 2159212.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

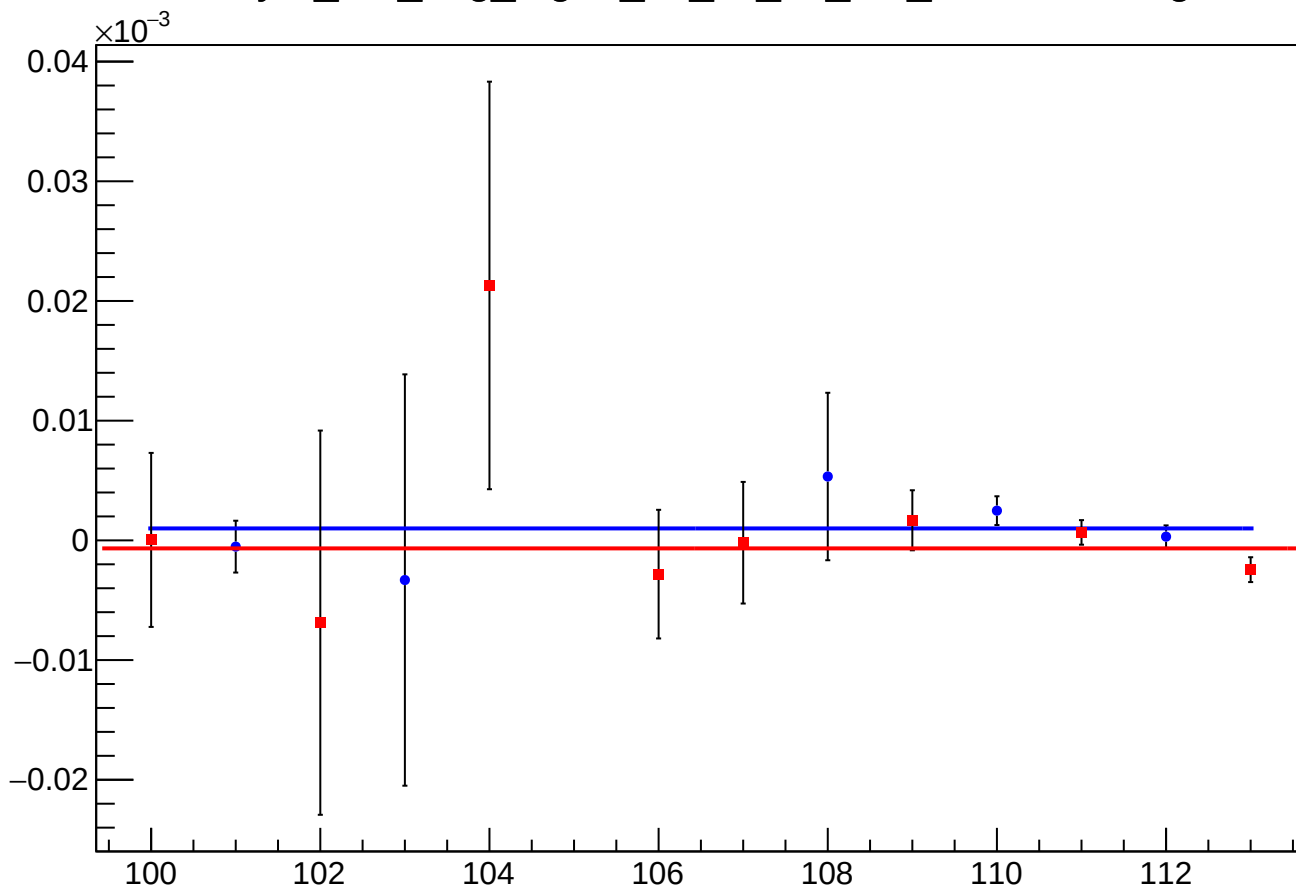
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 65.637 $\pm$ 0.027  $\chi^2$ /NDF: 3396310.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_at1\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.5/7

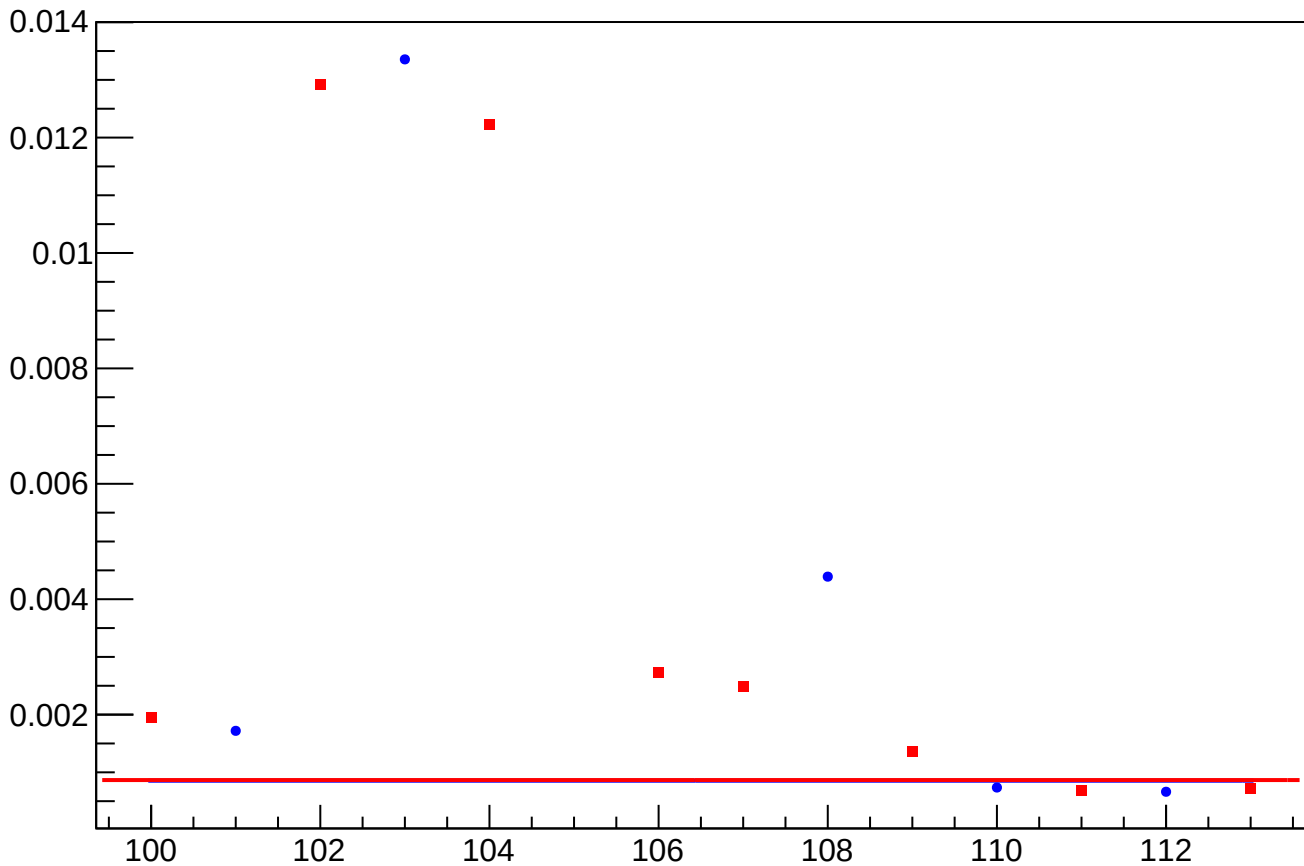
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1990603.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2690743.9/7

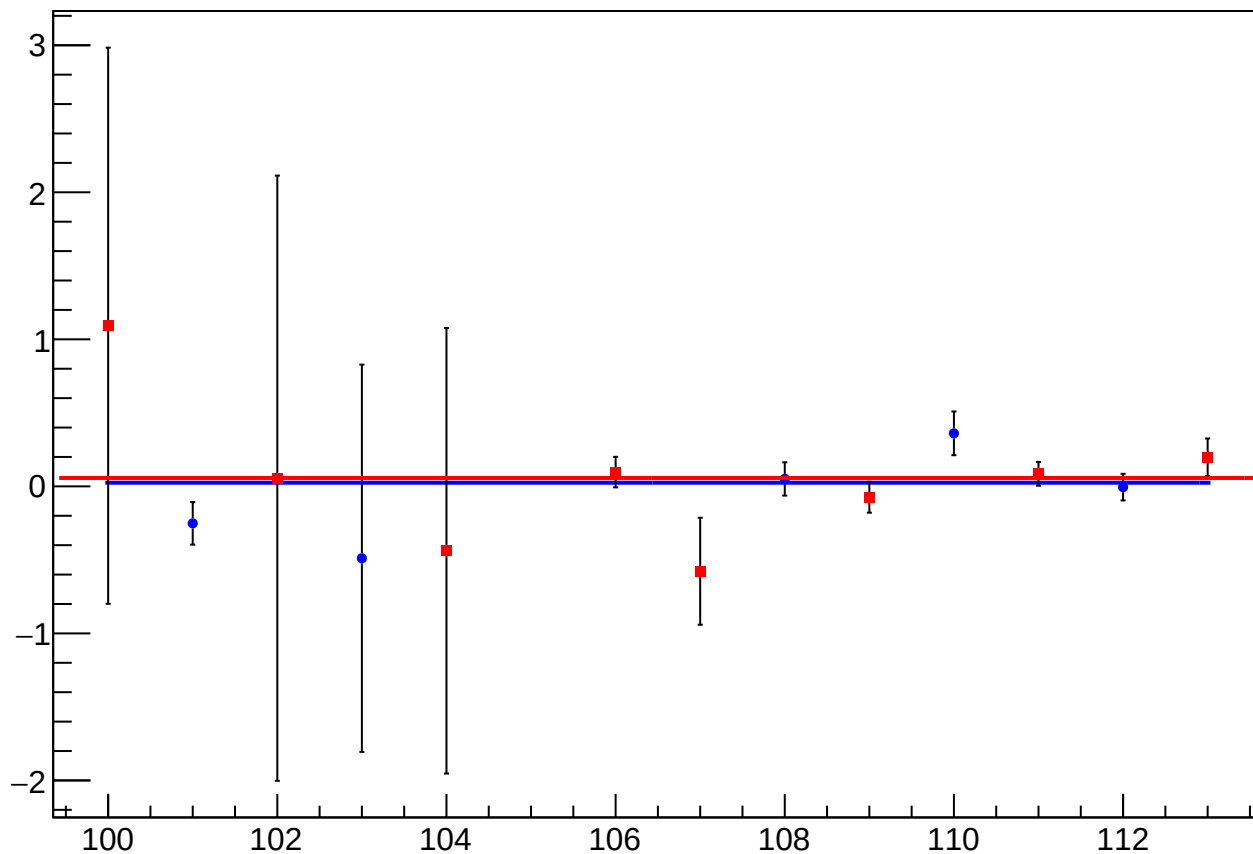
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4681595.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.025 $\pm$ 0.058  $\chi^2$ /NDF: 9.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.057 $\pm$ 0.050  $\chi^2$ /NDF: 6.5/7

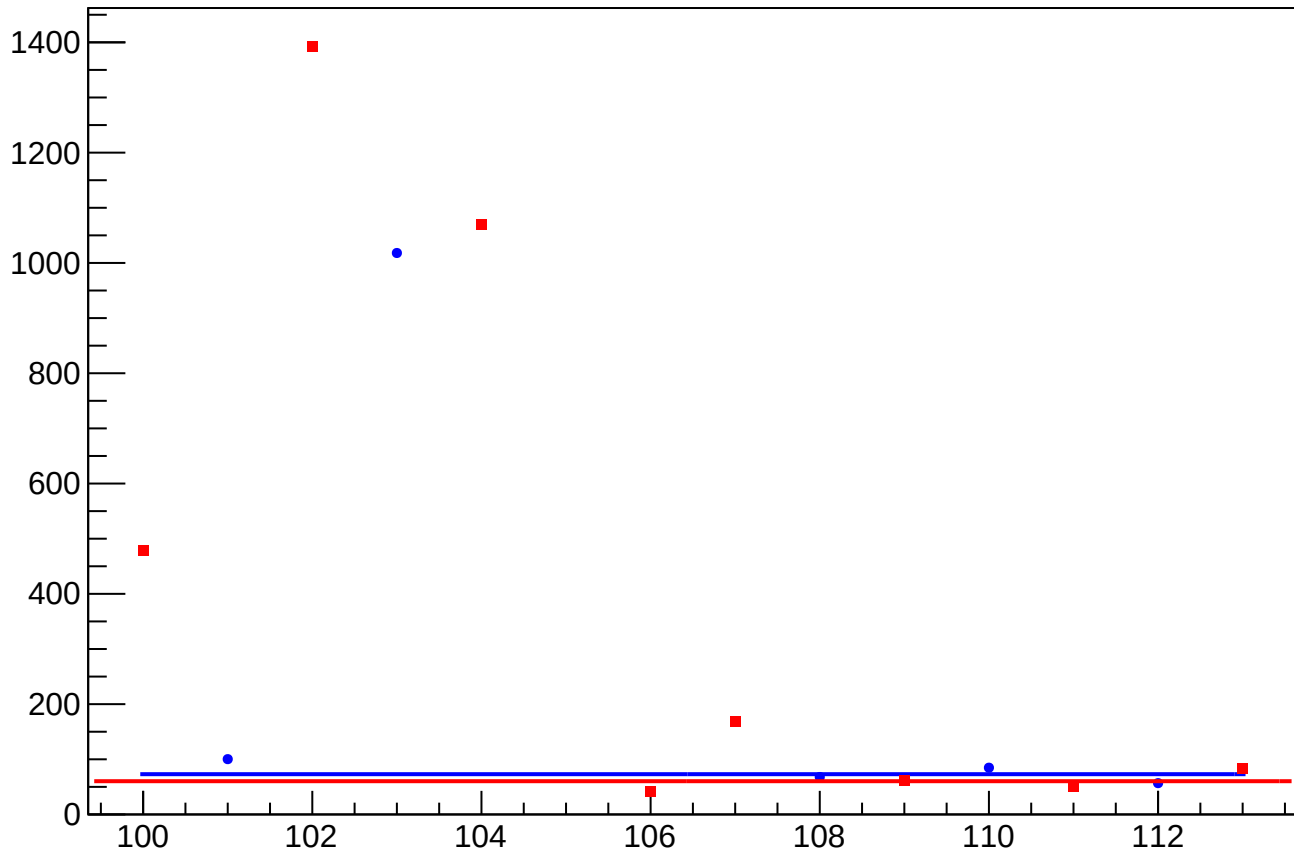
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.044 $\pm$ 0.038  $\chi^2$ /NDF: 15.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 73.026+/-0.041  $\chi^2/\text{NDF}$ : 1181895.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 60.295+/-0.035  $\chi^2/\text{NDF}$ : 2159238.3/7

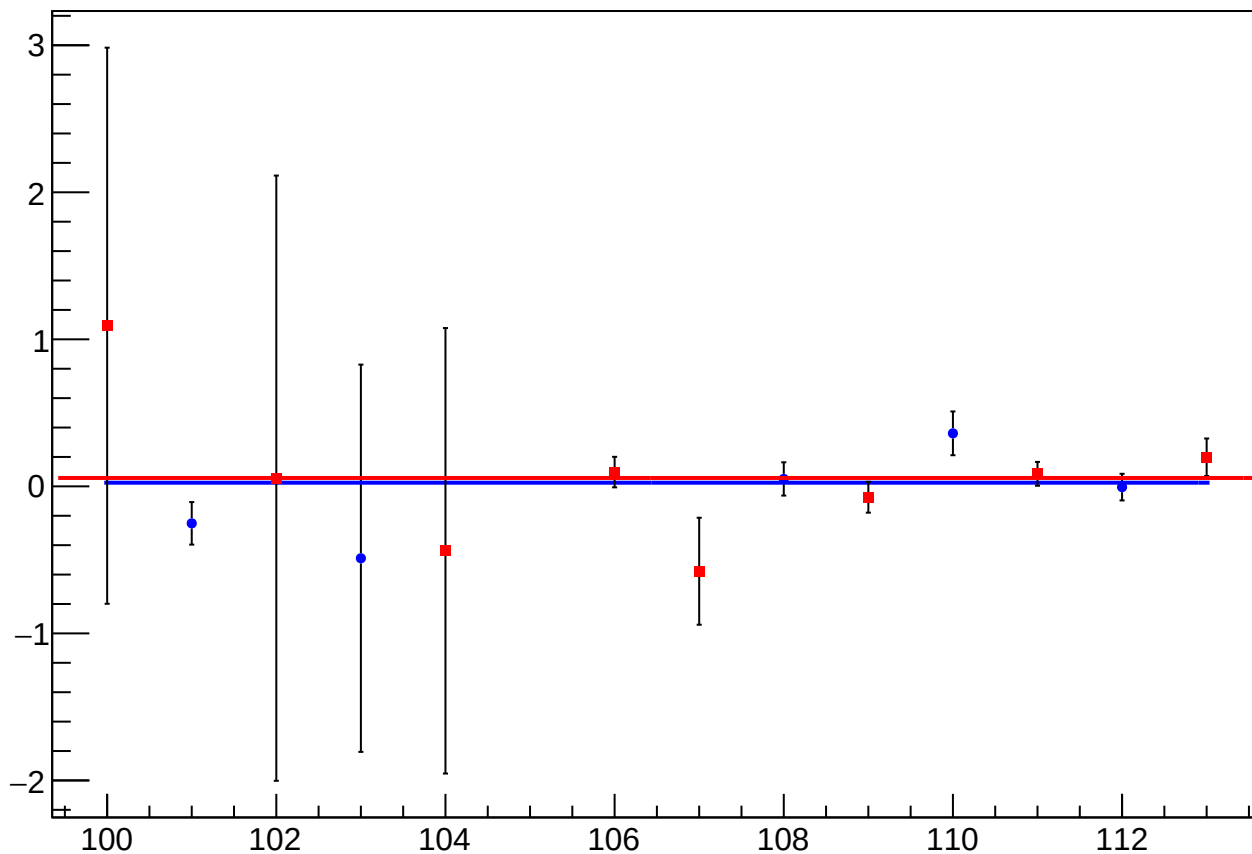
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.636+/-0.027  $\chi^2/\text{NDF}$ : 3396348.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.025 $\pm$ 0.058  $\chi^2$ /NDF: 9.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.057 $\pm$ 0.050  $\chi^2$ /NDF: 6.5/7

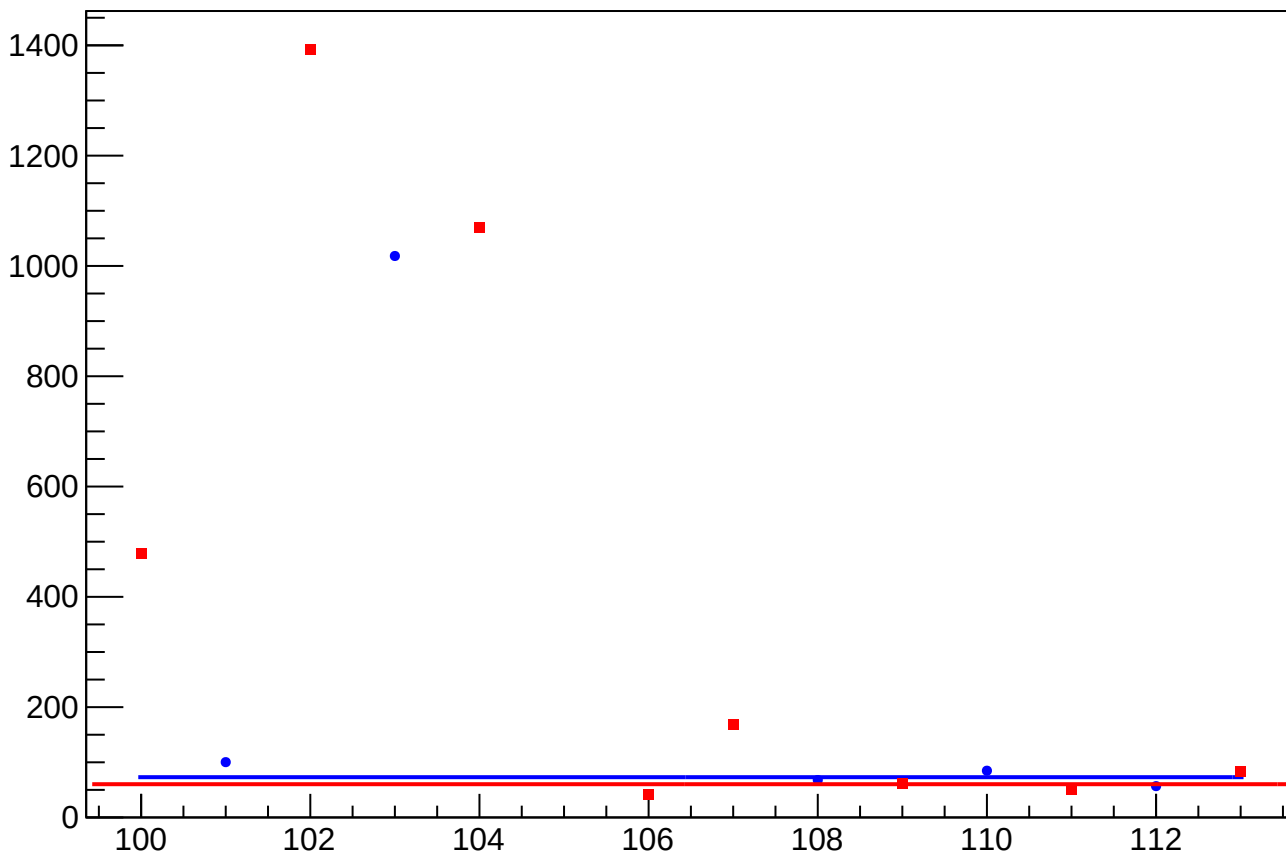
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.044 $\pm$ 0.038  $\chi^2$ /NDF: 15.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 73.026+/-0.041  $\chi^2/\text{NDF}$ : 1181895.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 60.295+/-0.035  $\chi^2/\text{NDF}$ : 2159238.3/7

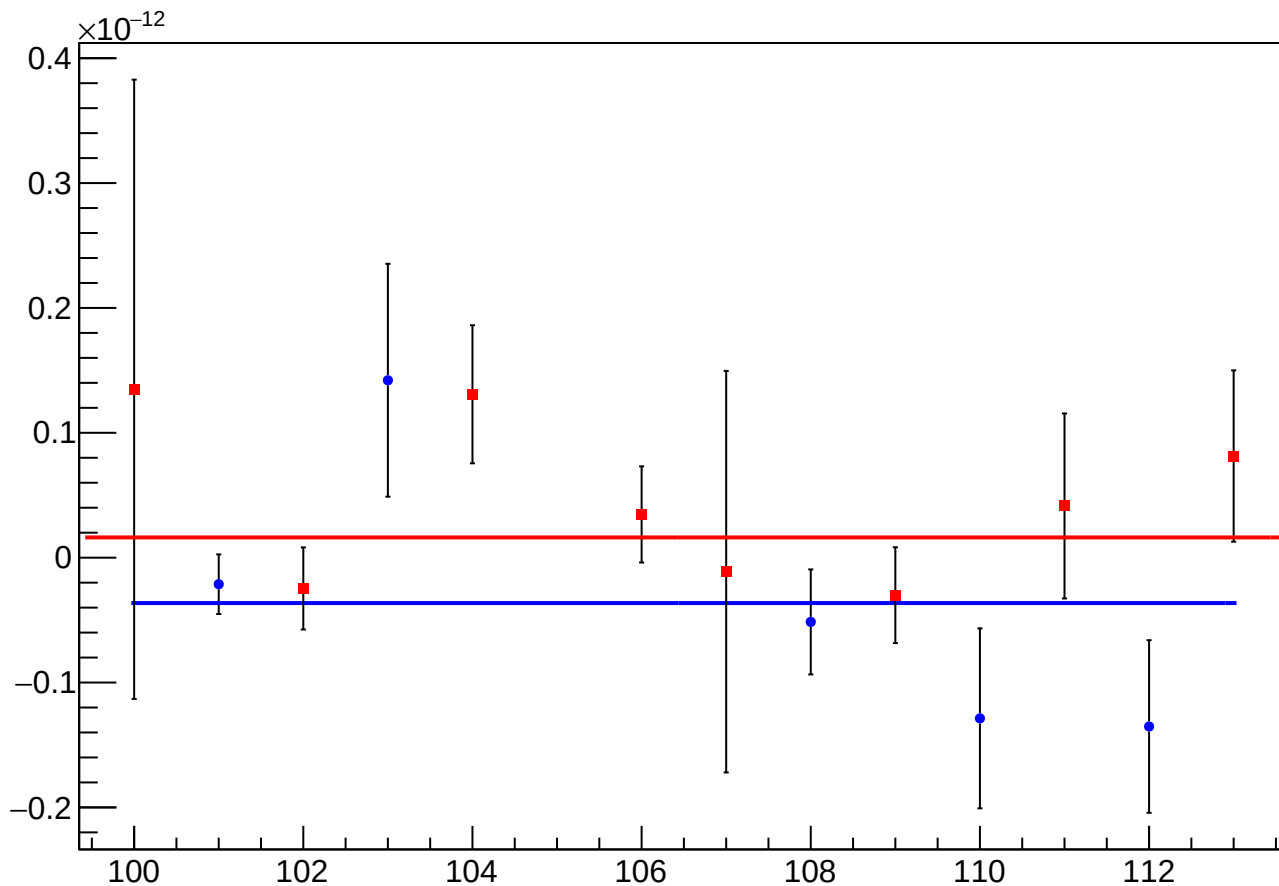
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.636+/-0.027  $\chi^2/\text{NDF}$ : 3396348.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.8/7

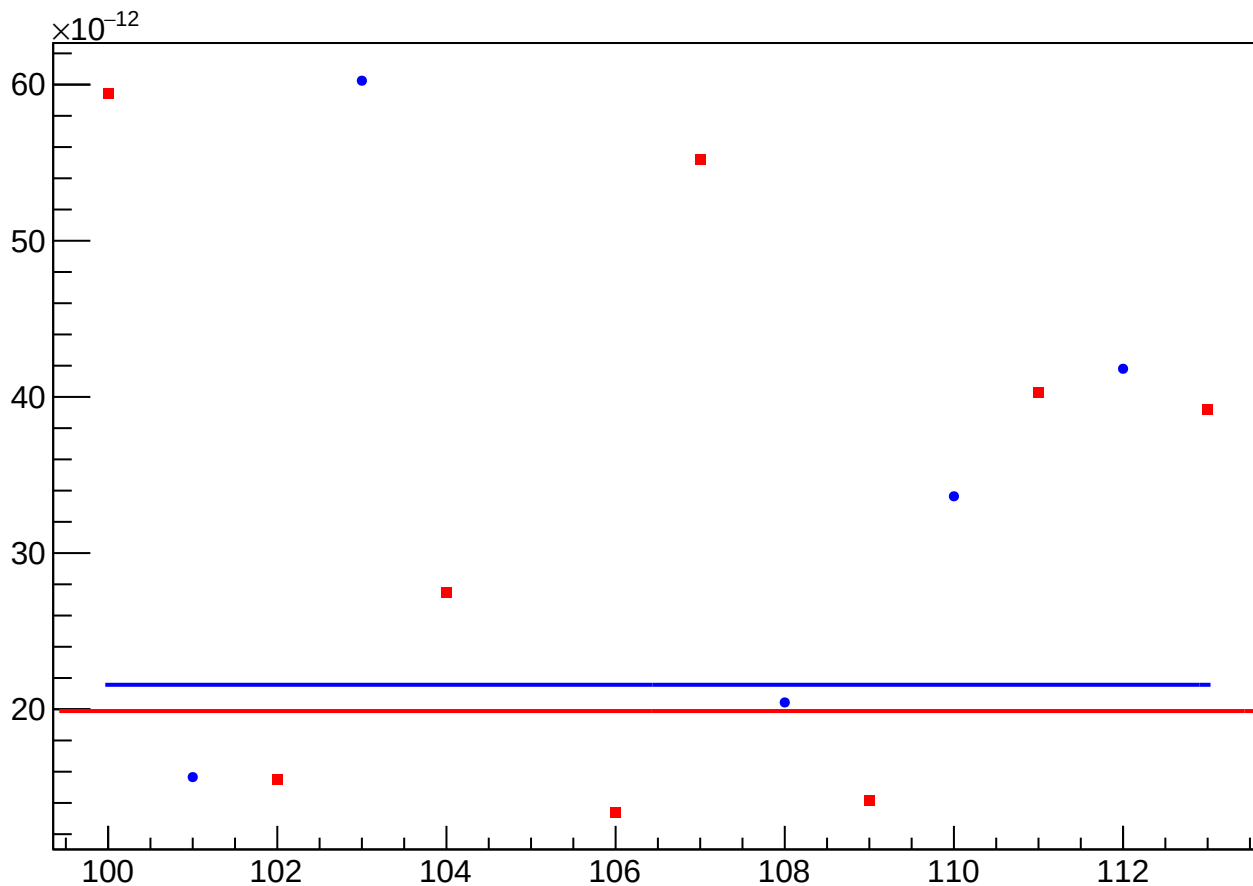
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 695766.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 631620.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

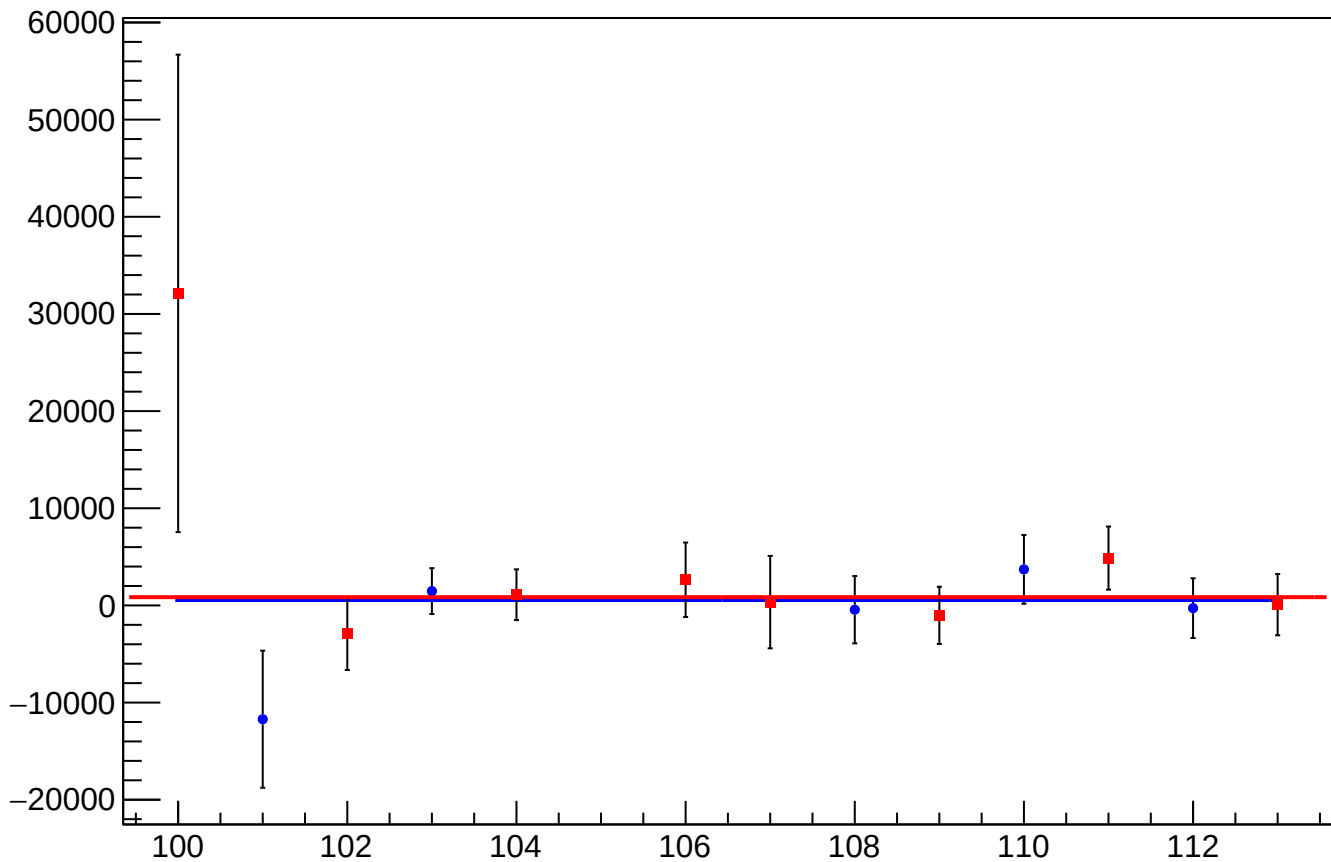
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1335695.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_at1\_dd\_mean vs Slug



Right In: 552.973+/-1460.299  $\chi^2/\text{NDF}$ : 4.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 848.700+/-1246.036  $\chi^2/\text{NDF}$ : 4.9/7

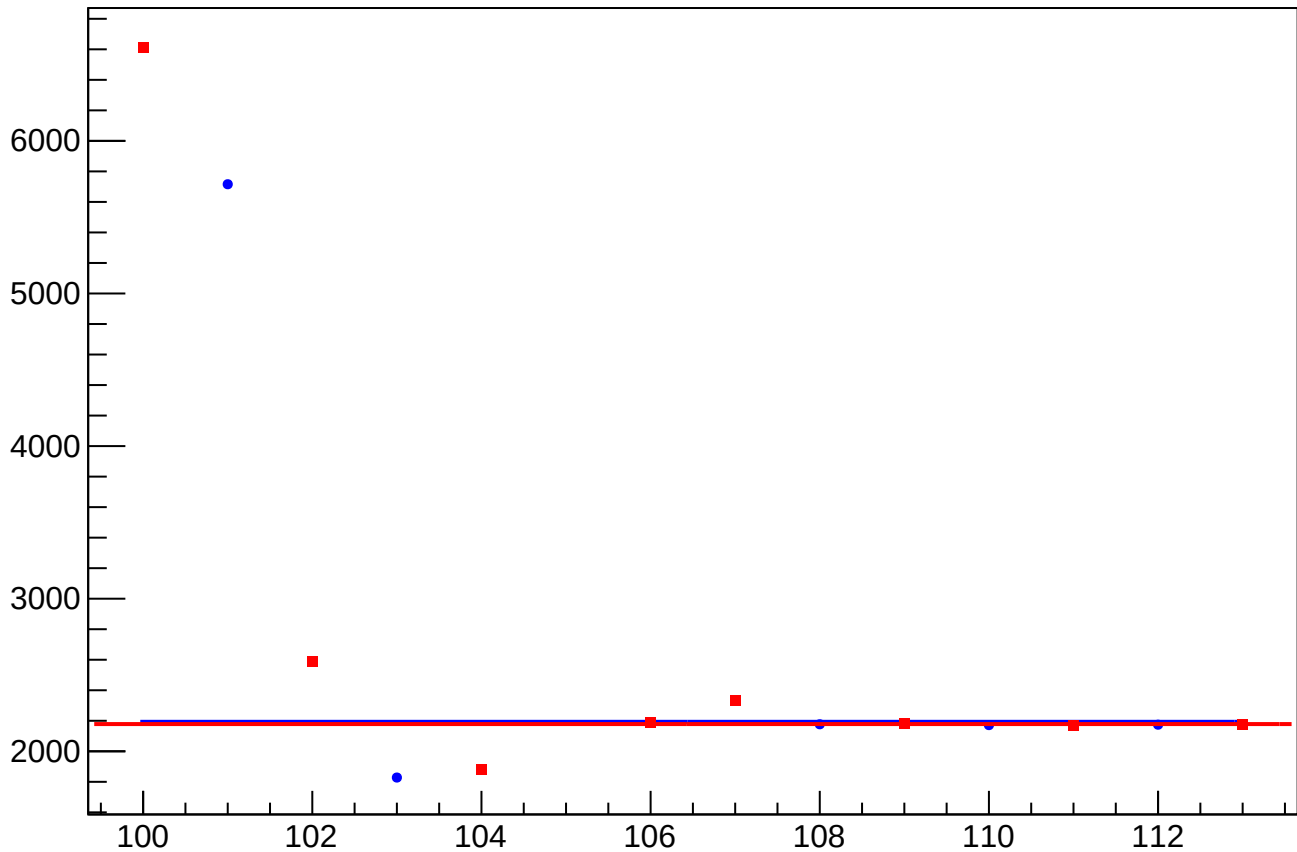
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 724.104+/-947.870  $\chi^2/\text{NDF}$ : 9.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_rms vs Slug



Right In: 2193.225+/-1.033  $\chi^2/\text{NDF}$ : 546264.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2178.461+/-0.881  $\chi^2/\text{NDF}$ : 118325.6/7

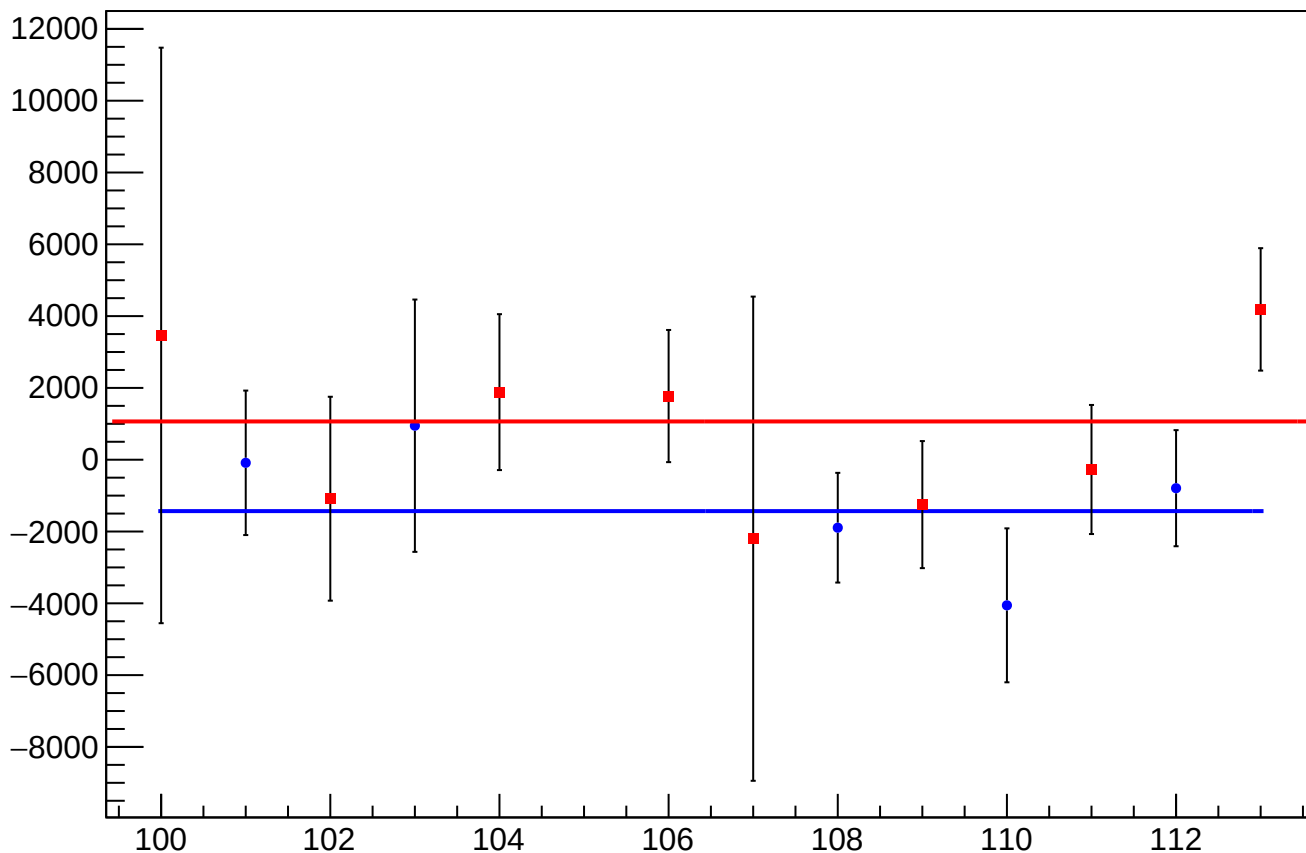
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2184.682+/-0.670  $\chi^2/\text{NDF}$ : 664708.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_reg\_correction\_mean vs Slug



Right In: -1431.500 $\pm$ 858.674  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1065.888 $\pm$ 780.556  $\chi^2$ /NDF: 6.8/7

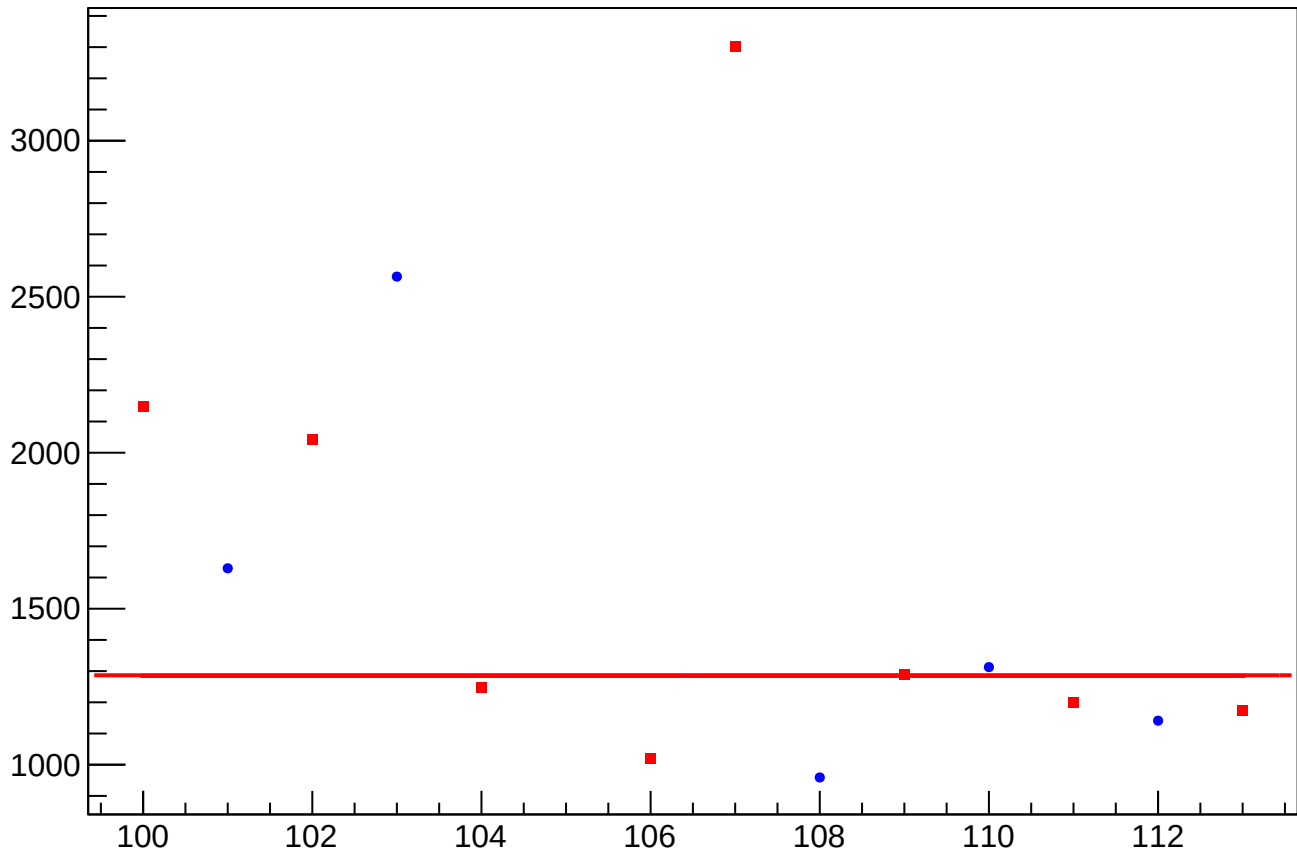
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -64.062 $\pm$ 577.584  $\chi^2$ /NDF: 14.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_reg\_correction\_rms vs Slug



Right In: 1285.141 $\pm$ 0.607  $\chi^2$ /NDF: 430944.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1286.685 $\pm$ 0.552  $\chi^2$ /NDF: 400024.0/7

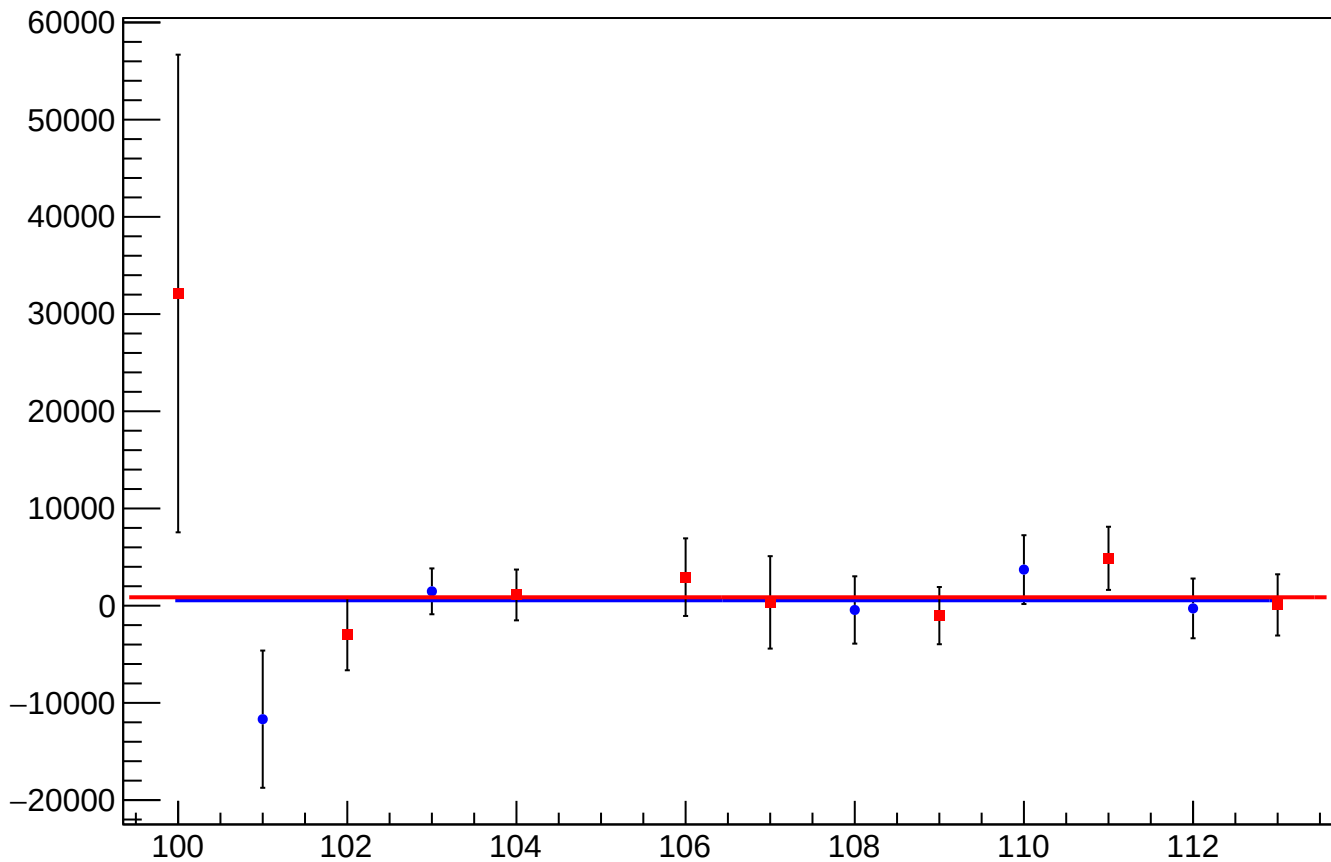
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1285.986 $\pm$ 0.408  $\chi^2$ /NDF: 830971.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_at1\_dd\_mean vs Slug



Right In: 555.837 $\pm$ 1460.300  $\chi^2$ /NDF: 4.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 864.044 $\pm$ 1251.269  $\chi^2$ /NDF: 5.0/7

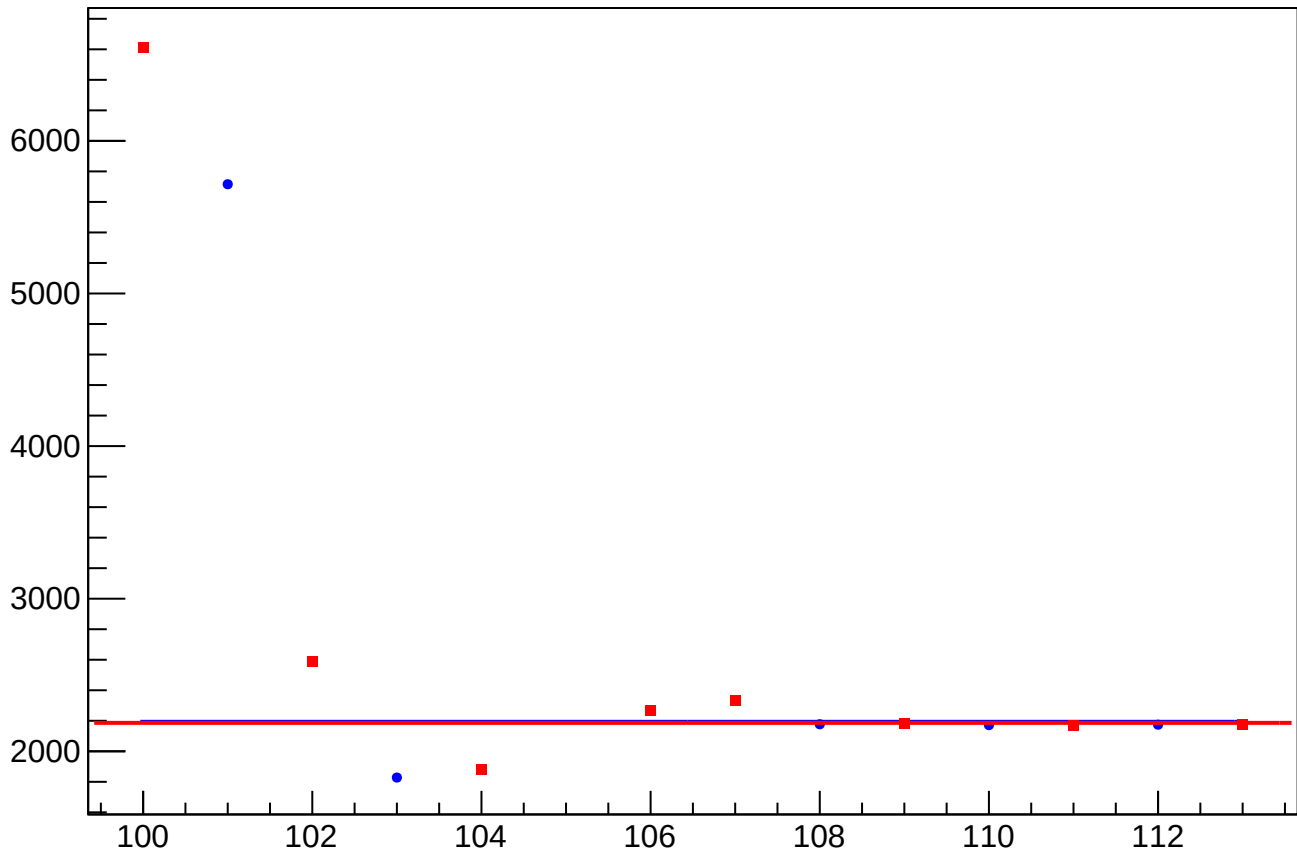
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 733.559 $\pm$ 950.168  $\chi^2$ /NDF: 9.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_at1\_dd\_rms vs Slug



Right In: 2193.226+/-1.033  $\chi^2/\text{NDF}$ : 546264.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2186.435+/-0.885  $\chi^2/\text{NDF}$ : 119266.7/7

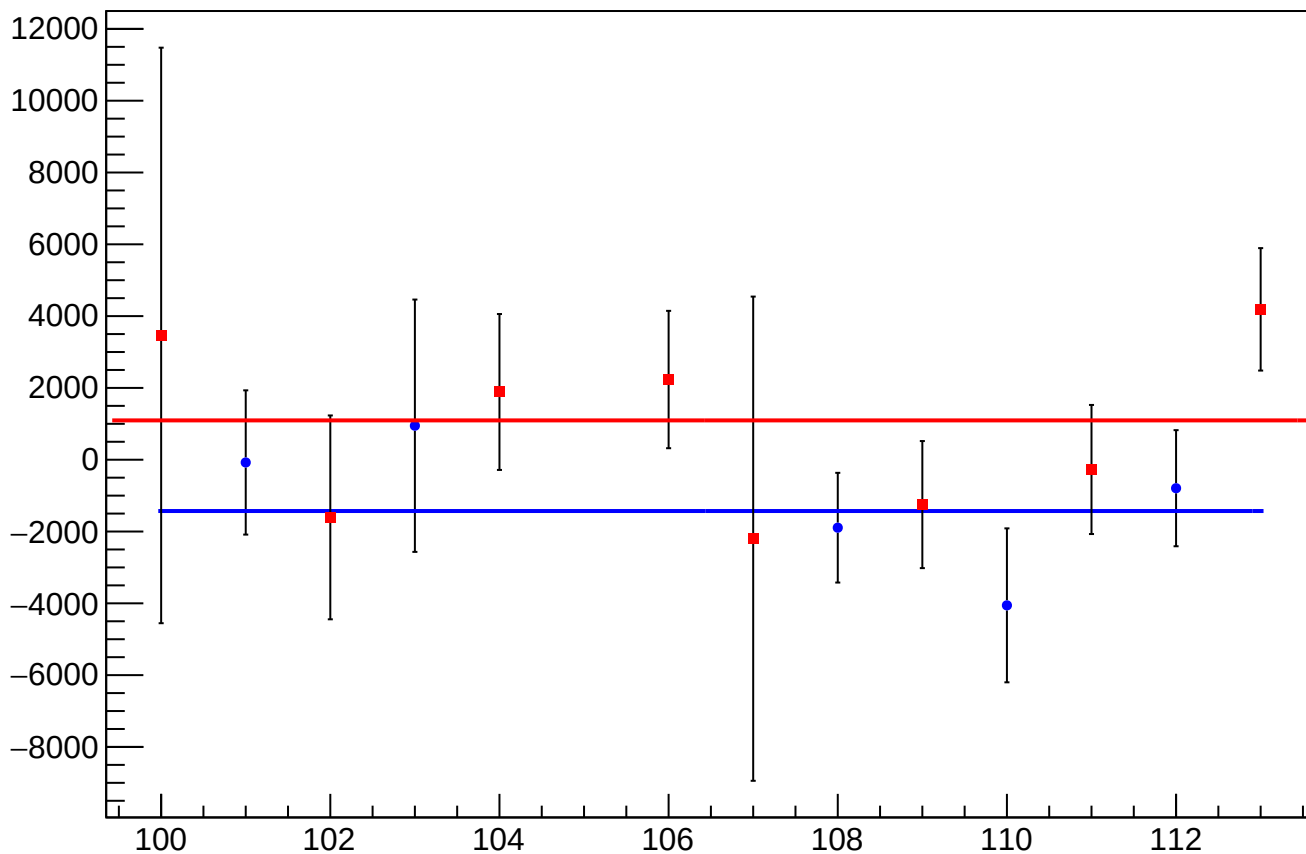
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2189.310+/-0.672  $\chi^2/\text{NDF}$ : 665556.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_cor\_correction\_mean vs Slug



Right In: -1428.899 $\pm$ 858.439  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1095.241 $\pm$ 785.778  $\chi^2$ /NDF: 7.3/7

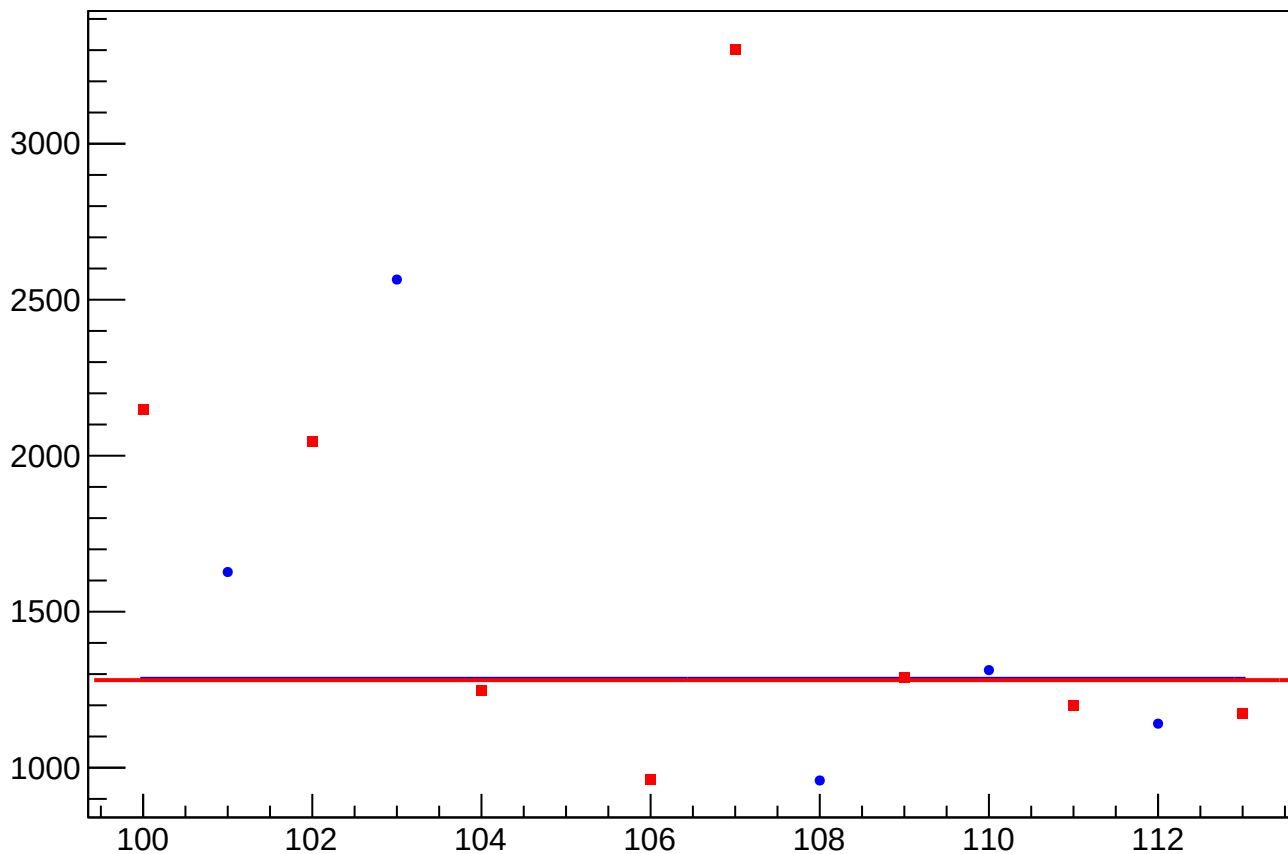
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -55.500 $\pm$ 579.618  $\chi^2$ /NDF: 14.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_cor\_correction\_rms vs Slug



Right In: 1284.878+/-0.607  $\chi^2/\text{NDF}$ : 430353.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1280.708+/-0.556  $\chi^2/\text{NDF}$ : 417108.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

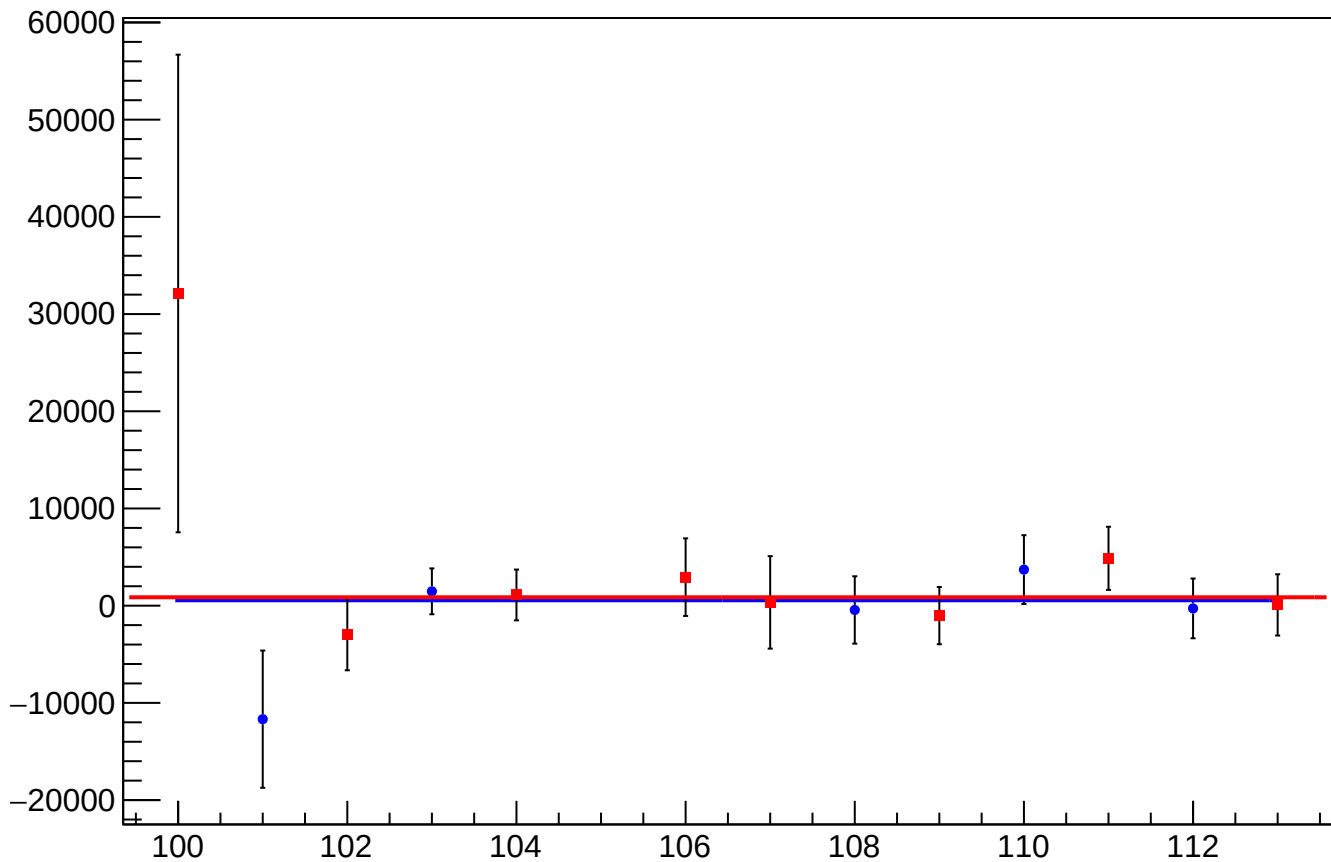
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1282.609+/-0.410  $\chi^2/\text{NDF}$ : 847487.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_at1\_dd\_mean vs Slug



Right In: 555.837 $\pm$ 1460.300  $\chi^2$ /NDF: 4.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 864.044 $\pm$ 1251.269  $\chi^2$ /NDF: 5.0/7

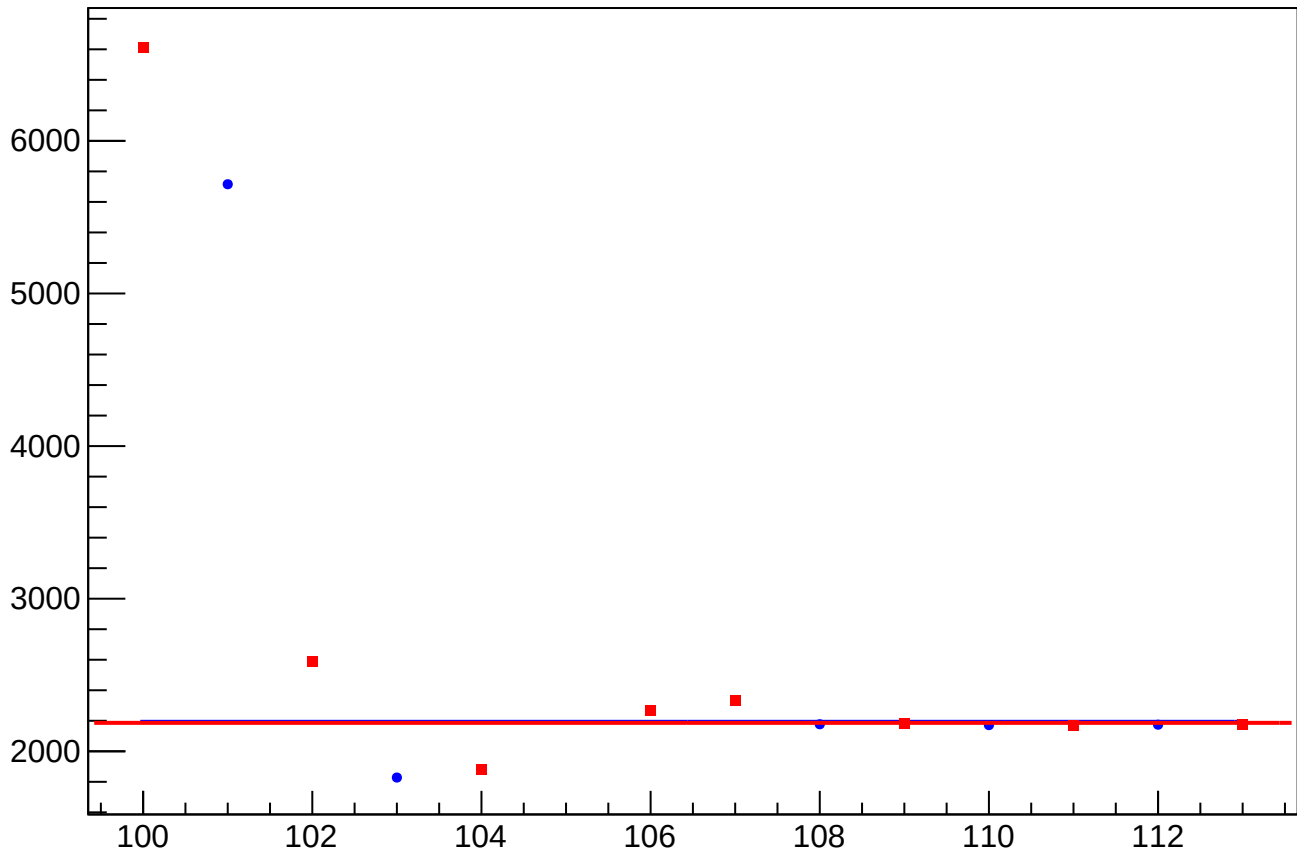
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 733.559 $\pm$ 950.168  $\chi^2$ /NDF: 9.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_at1\_dd\_rms vs Slug



Right In: 2193.226 $\pm$ 1.033  $\chi^2$ /NDF: 546264.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2186.435 $\pm$ 0.885  $\chi^2$ /NDF: 119266.7/7

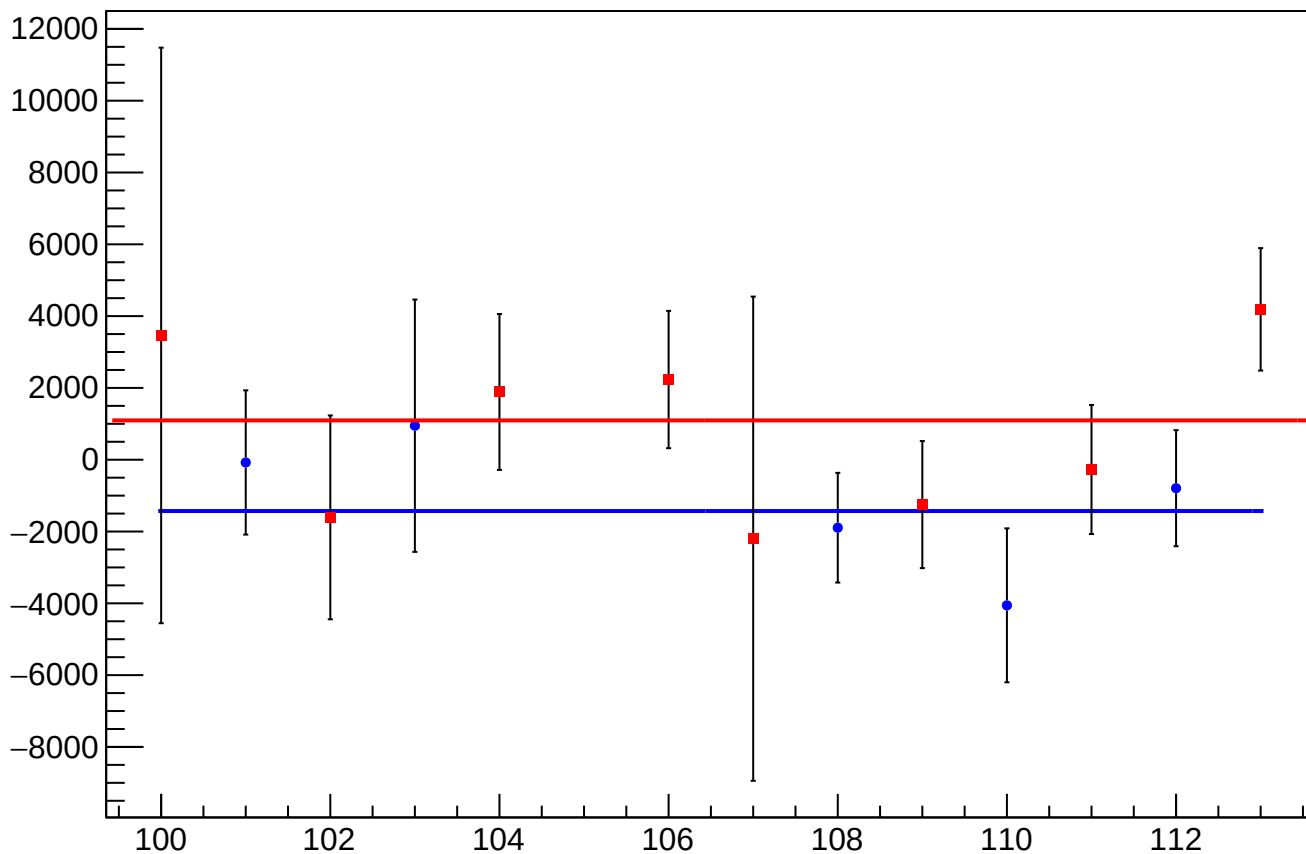
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2189.310 $\pm$ 0.672  $\chi^2$ /NDF: 665556.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -1428.899+/-858.439  $\chi^2/\text{NDF}$ : 2.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1095.241+/-785.778  $\chi^2/\text{NDF}$ : 7.3/7

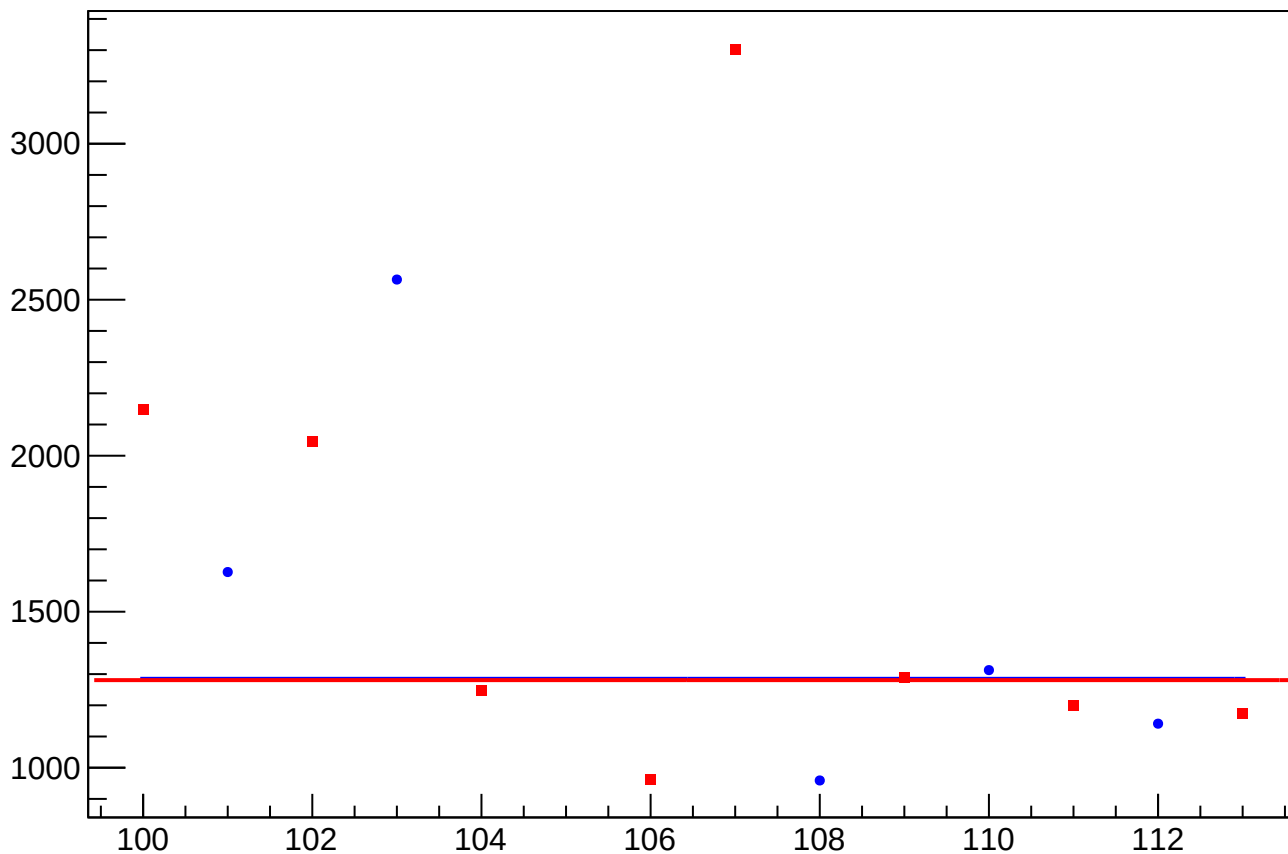
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -55.500+/-579.618  $\chi^2/\text{NDF}$ : 14.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1284.878+/-0.607  $\chi^2/\text{NDF}$ : 430353.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1280.708+/-0.556  $\chi^2/\text{NDF}$ : 417108.6/7

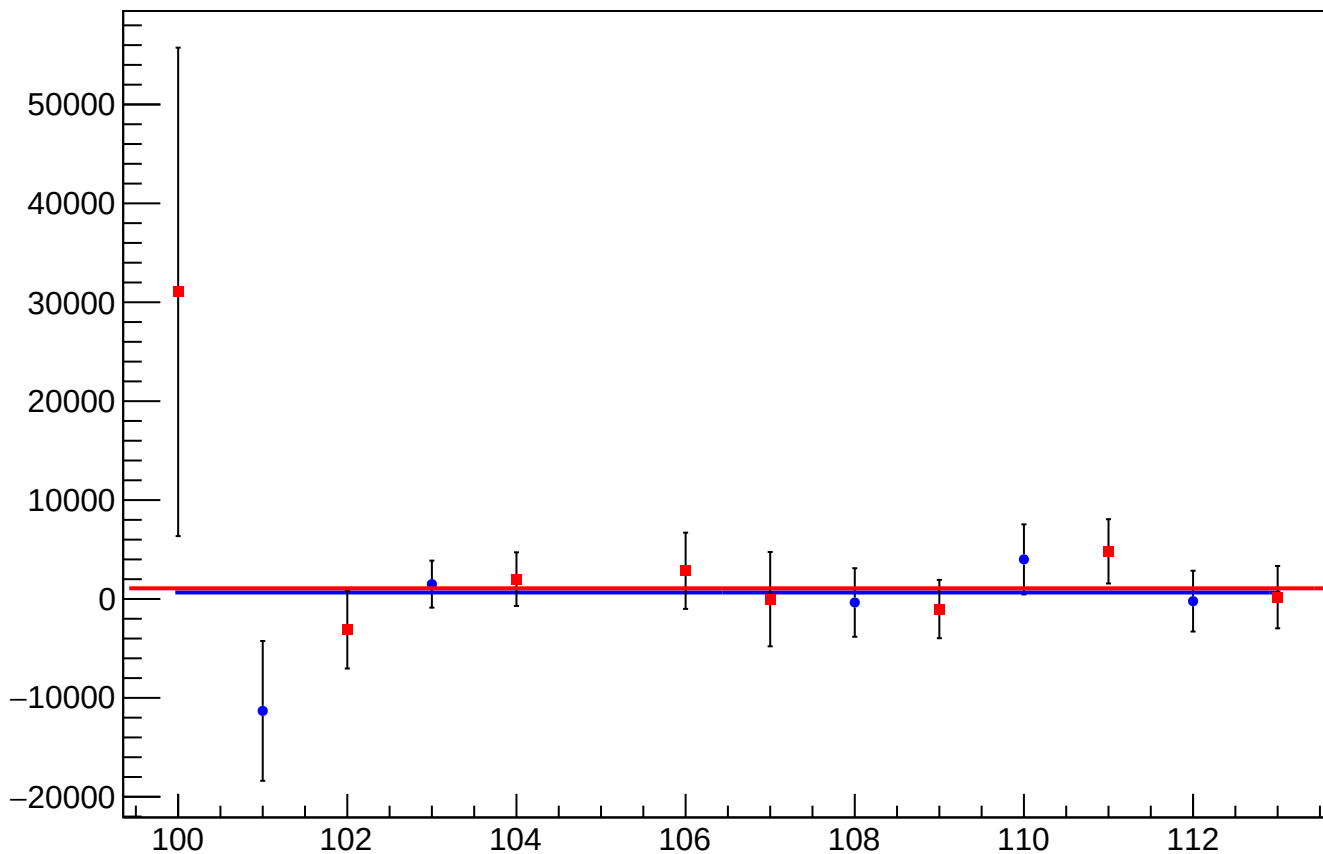
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1282.609+/-0.410  $\chi^2/\text{NDF}$ : 847487.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_at1\_dd\_mean vs Slug



Right In: 656.245+/-1465.039  $\chi^2/\text{NDF}$ : 4.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1078.023+/-1265.675  $\chi^2/\text{NDF}$ : 4.9/7

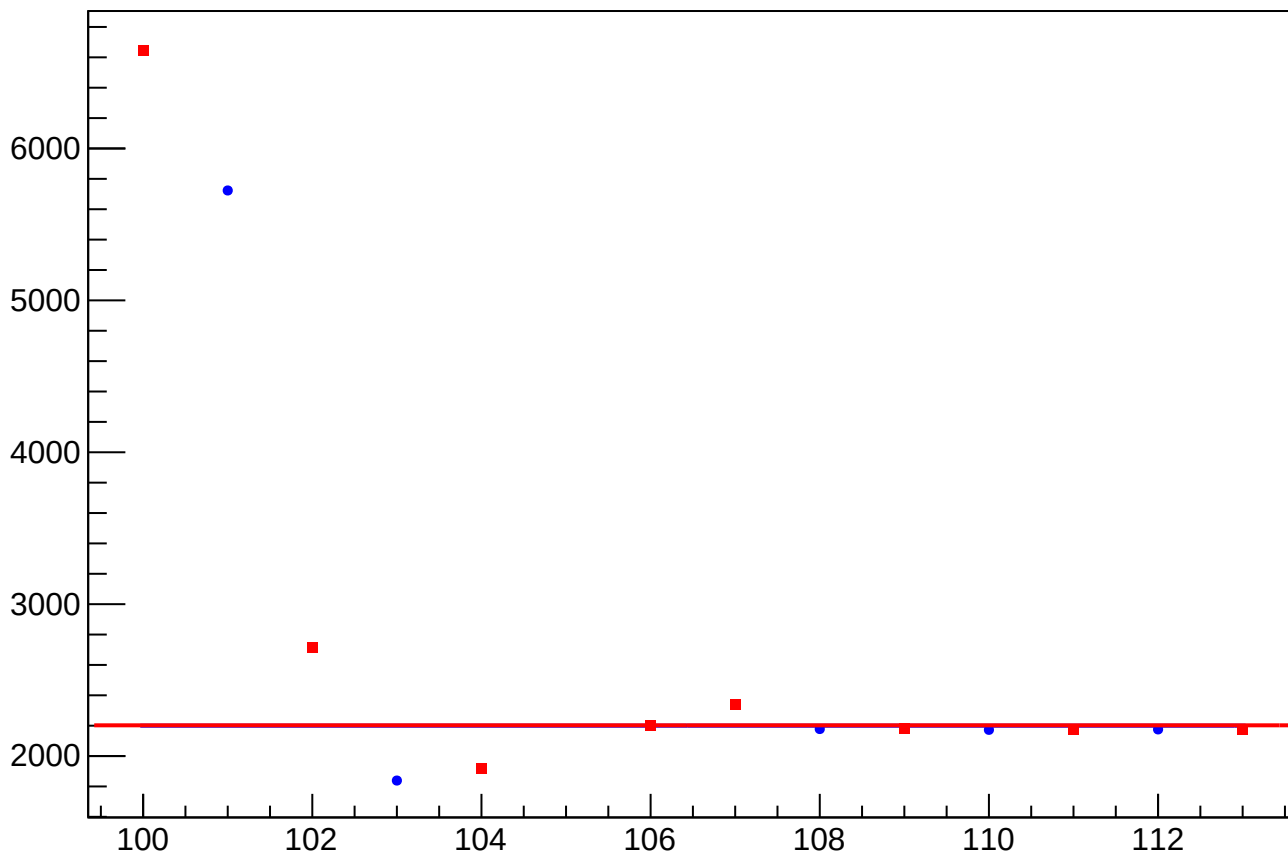
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 897.764+/-957.758  $\chi^2/\text{NDF}$ : 9.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_at1\_dd\_rms vs Slug



Right In: 2199.984+/-1.036  $\chi^2/\text{NDF}$ : 543537.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2202.467+/-0.895  $\chi^2/\text{NDF}$ : 122245.3/7

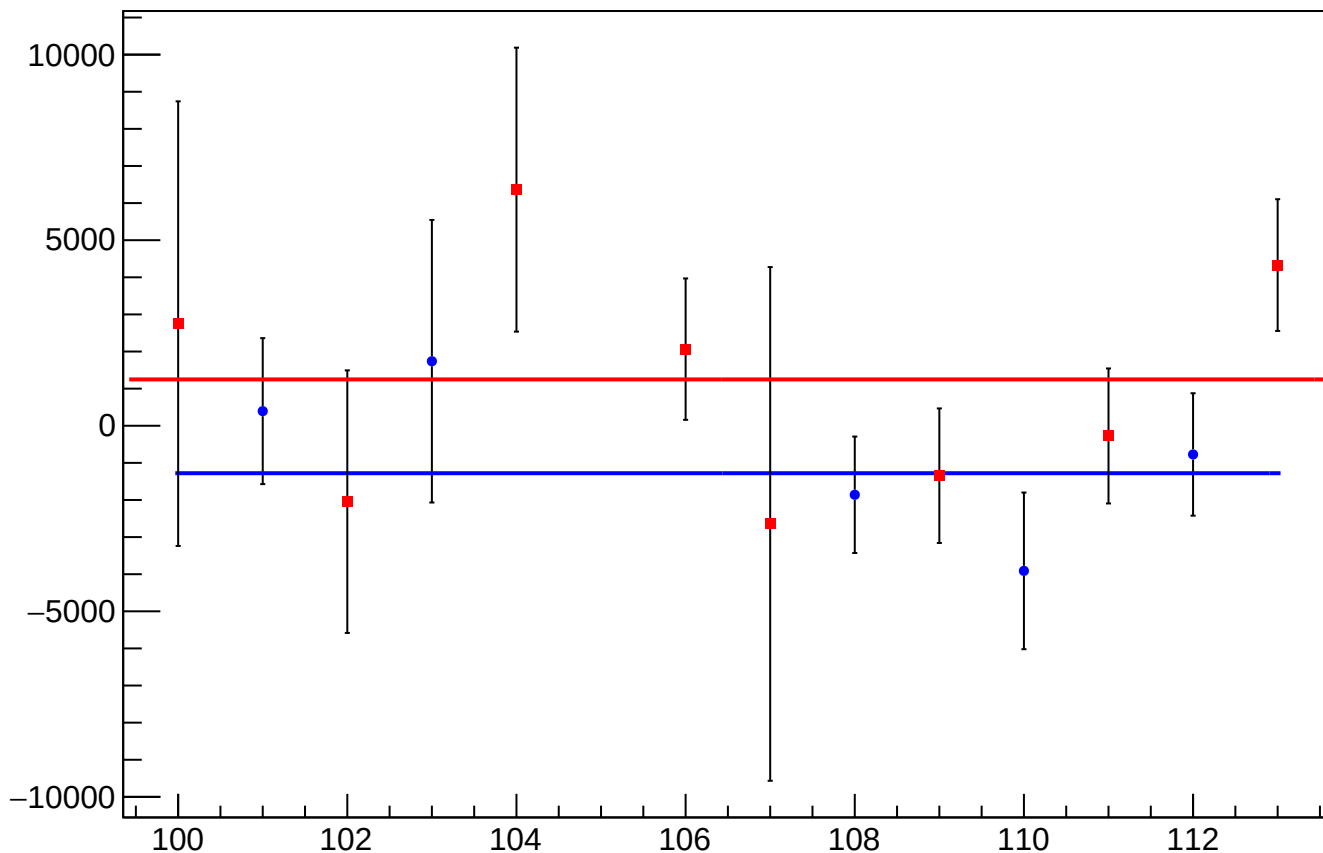
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2201.406+/-0.677  $\chi^2/\text{NDF}$ : 665785.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_dit\_correction\_mean vs Slug



Right In: -1278.861 $\pm$ 868.451  $\chi^2$ /NDF: 3.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1248.397 $\pm$ 846.108  $\chi^2$ /NDF: 9.0/7

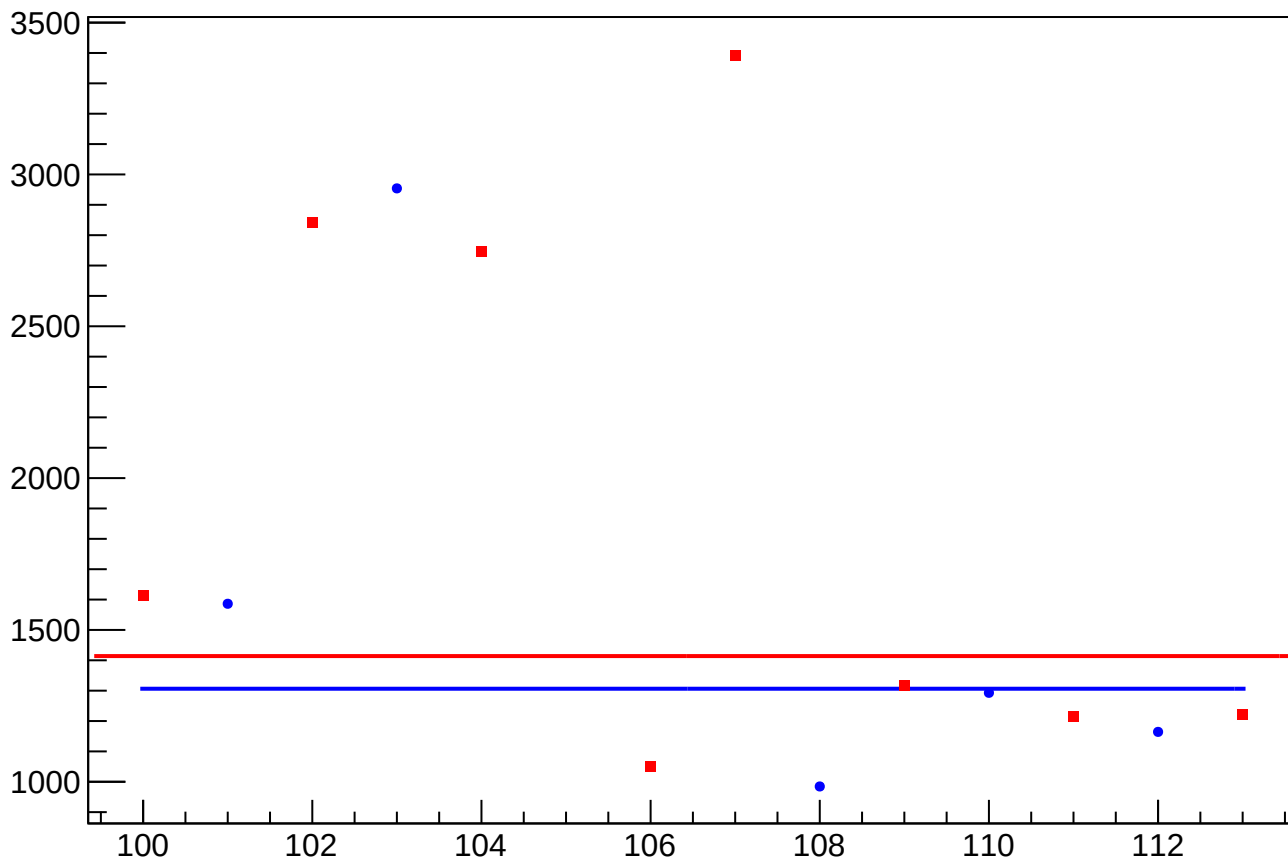
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.695 $\pm$ 606.034  $\chi^2$ /NDF: 16.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_dit\_correction\_rms vs Slug



Right In: 1306.388+/-0.614  $\chi^2/\text{NDF}$ : 514261.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1413.918+/-0.598  $\chi^2/\text{NDF}$ : 861125.1/7

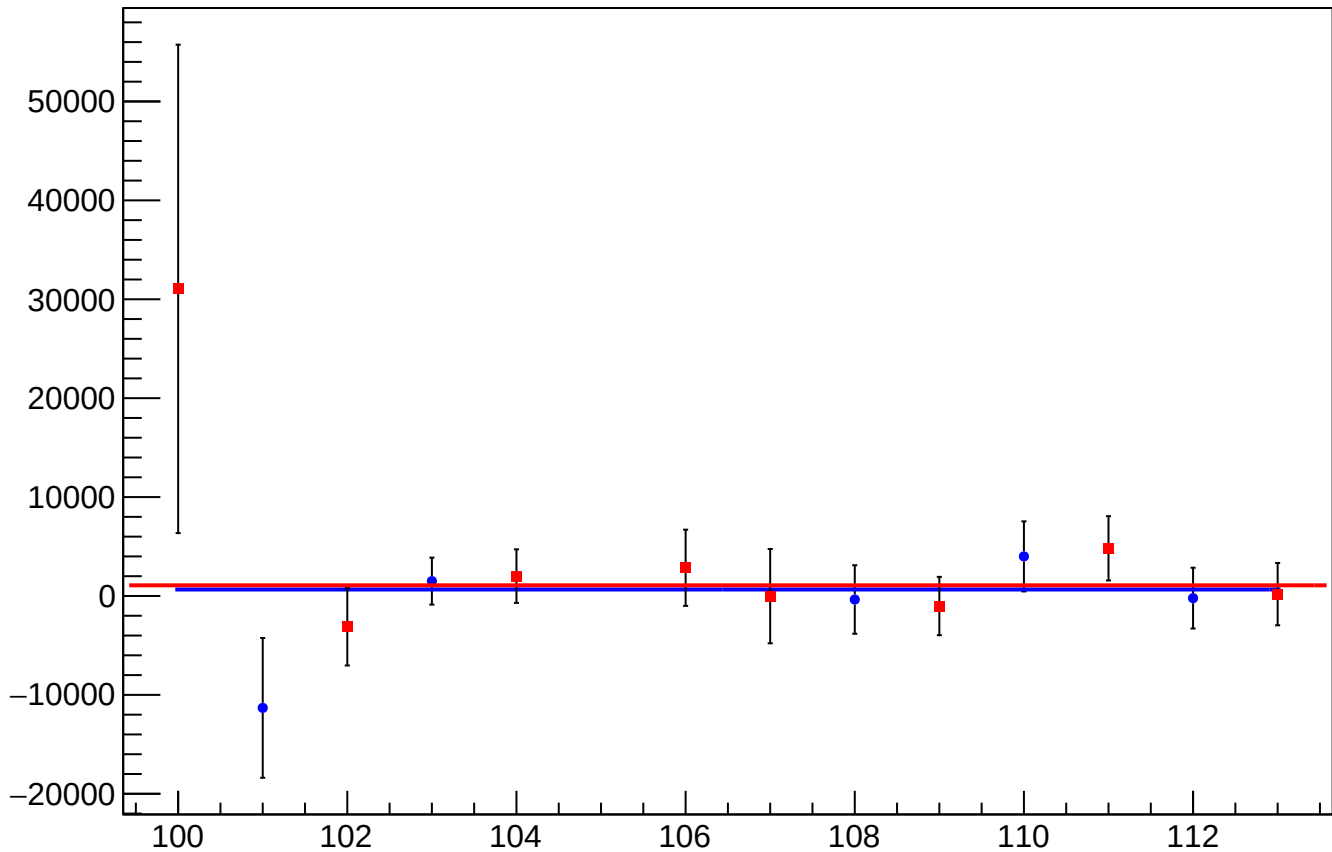
All: 1361.554+/-0.429  $\chi^2/\text{NDF}$ : 1391116.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_at1\_dd\_mean vs Slug



Right In: 656.243+/-1465.039  $\chi^2/\text{NDF}$ : 4.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1078.025+/-1265.675  $\chi^2/\text{NDF}$ : 4.9/7

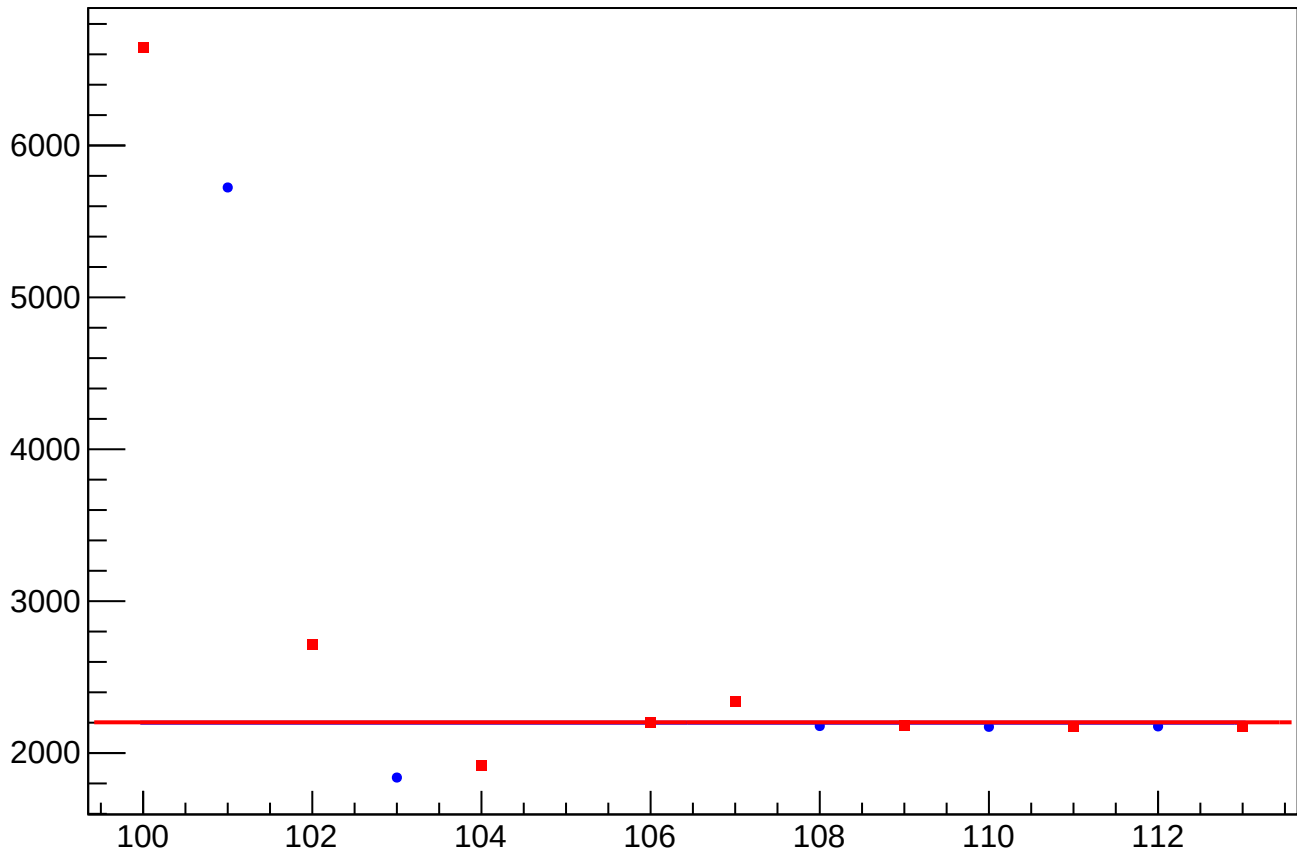
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 897.764+/-957.758  $\chi^2/\text{NDF}$ : 9.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_at1\_dd\_rms vs Slug



Right In: 2199.984+/-1.036  $\chi^2/\text{NDF}$ : 543537.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2202.467+/-0.895  $\chi^2/\text{NDF}$ : 122245.2/7

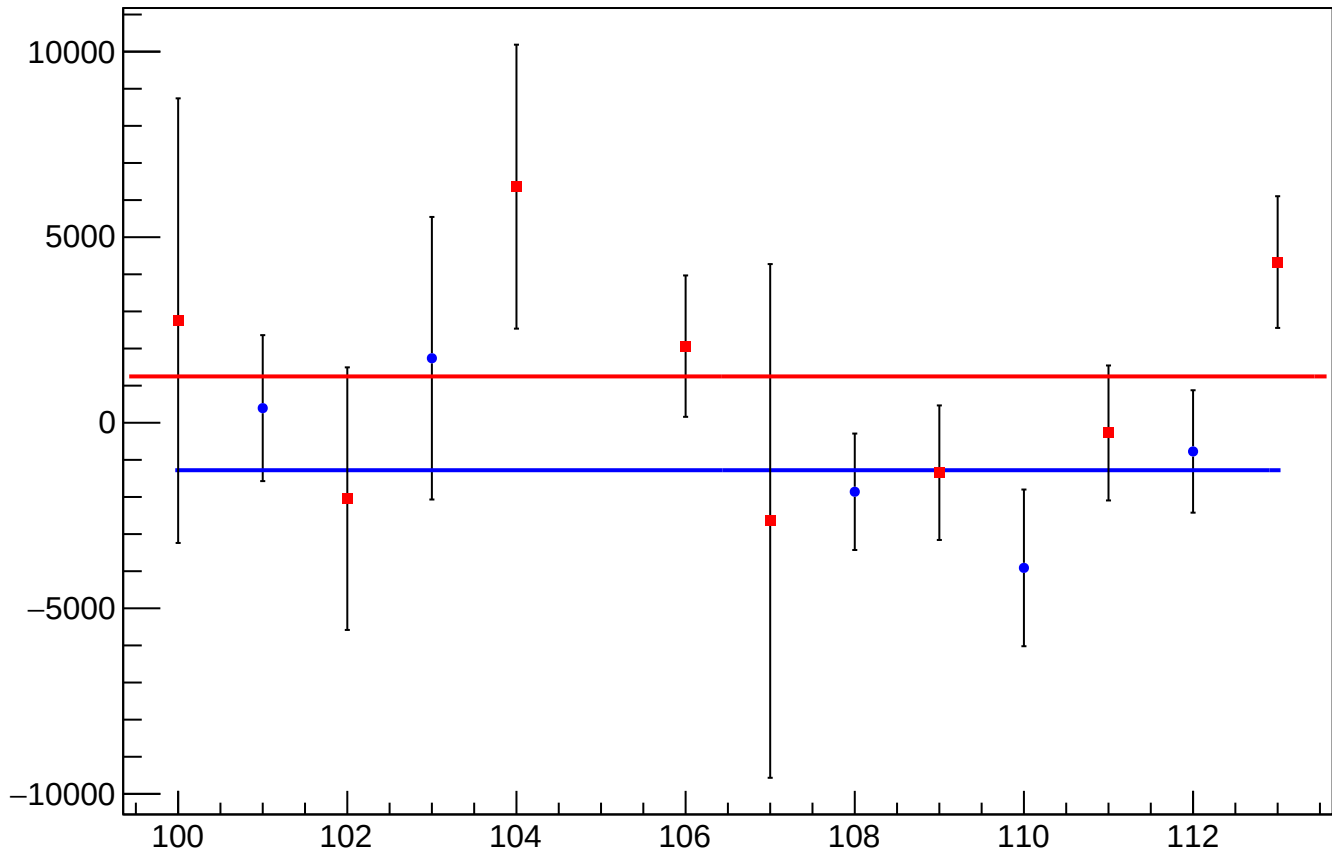
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2201.406+/-0.677  $\chi^2/\text{NDF}$ : 665786.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -1278.862 $\pm$ 868.450  $\chi^2$ /NDF: 3.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1248.393 $\pm$ 846.108  $\chi^2$ /NDF: 9.0/7

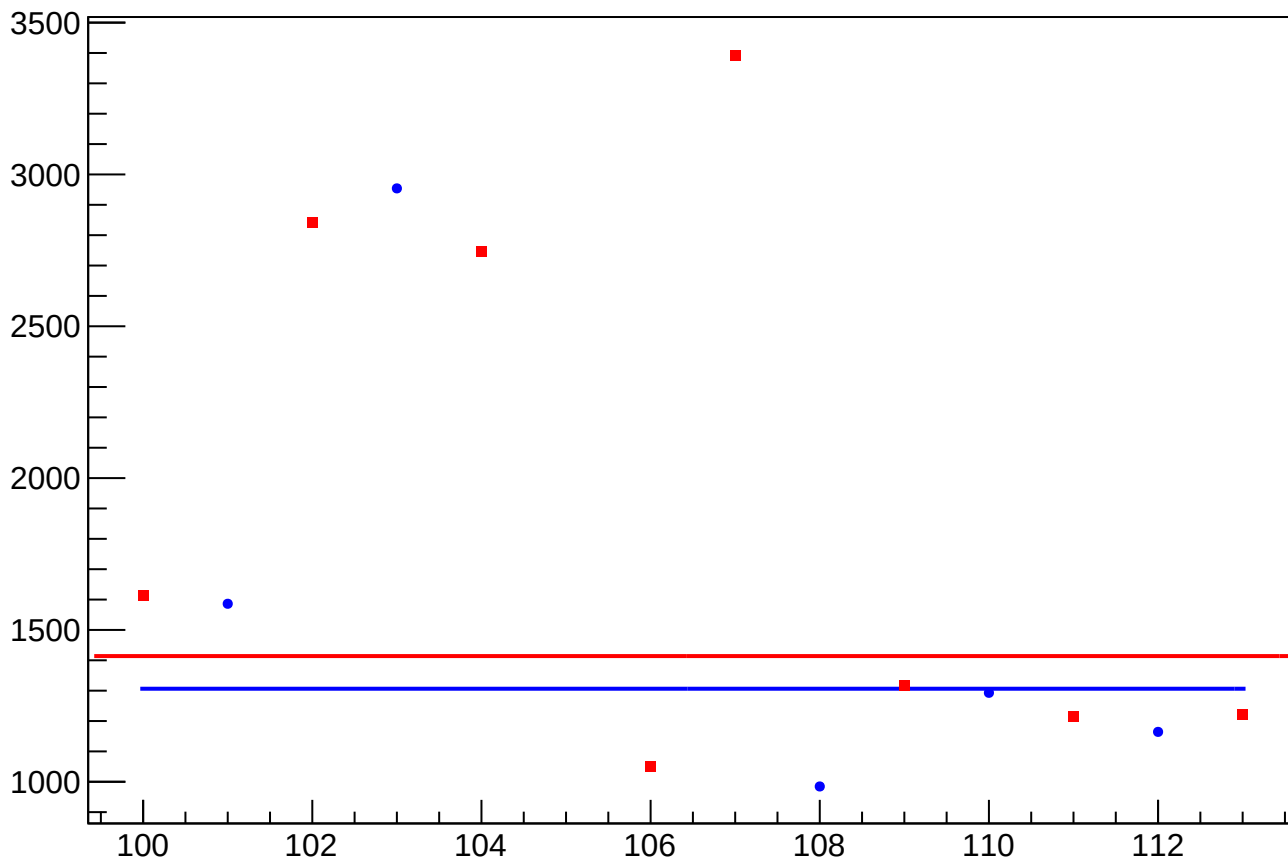
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.692 $\pm$ 606.033  $\chi^2$ /NDF: 16.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1306.387 $\pm$ 0.614  $\chi^2$ /NDF: 514263.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1413.917 $\pm$ 0.598  $\chi^2$ /NDF: 861127.6/7

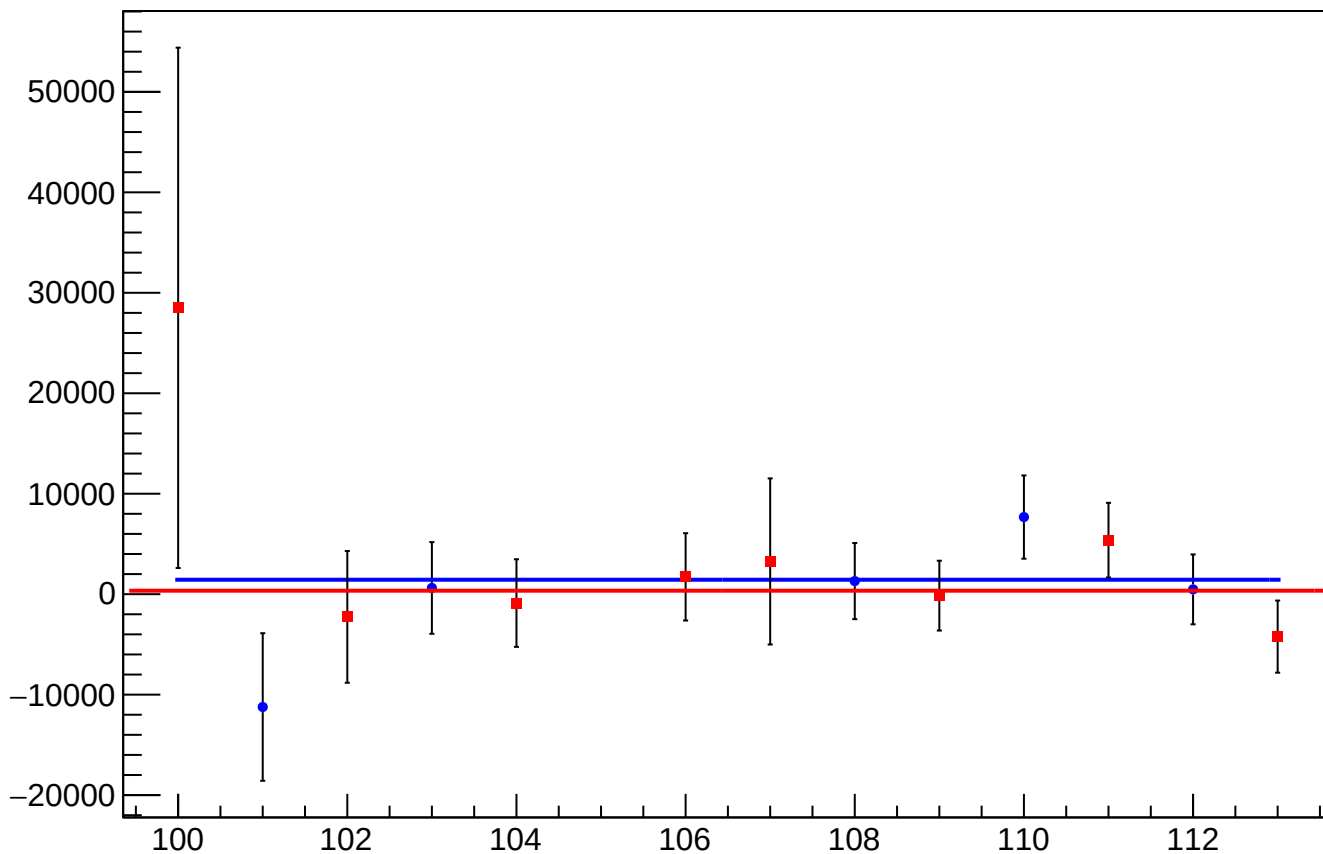
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1361.553 $\pm$ 0.429  $\chi^2$ /NDF: 1391122.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_mean vs Slug



Right In: 1438.318+/-1899.837  $\chi^2/\text{NDF}$ : 5.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 347.922+/-1626.886  $\chi^2/\text{NDF}$ : 5.1/7

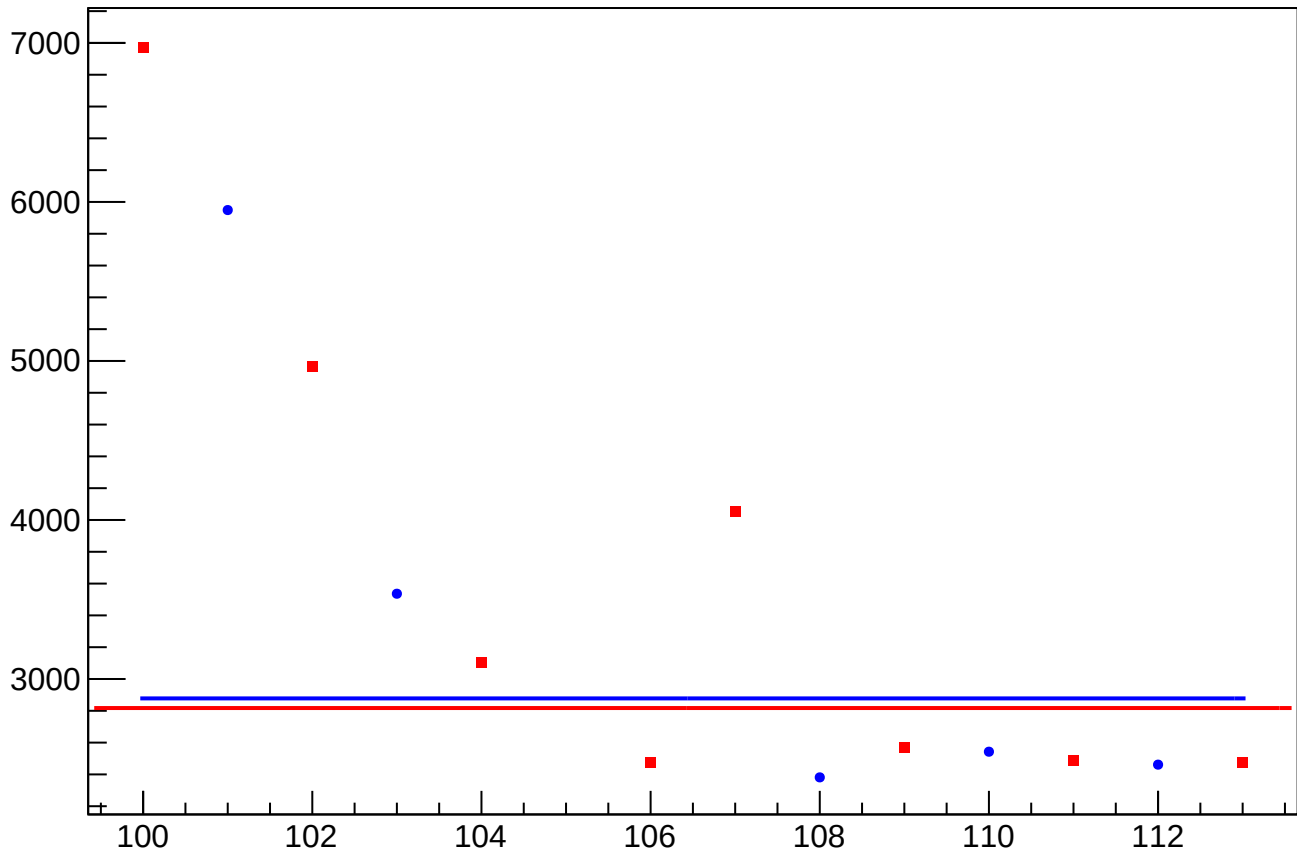
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 809.231+/-1235.721  $\chi^2/\text{NDF}$ : 10.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_rms vs Slug



Right In: 2877.971+/-1.343  $\chi^2/\text{NDF}$ : 467333.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2817.367+/-1.150  $\chi^2/\text{NDF}$ : 376822.6/7

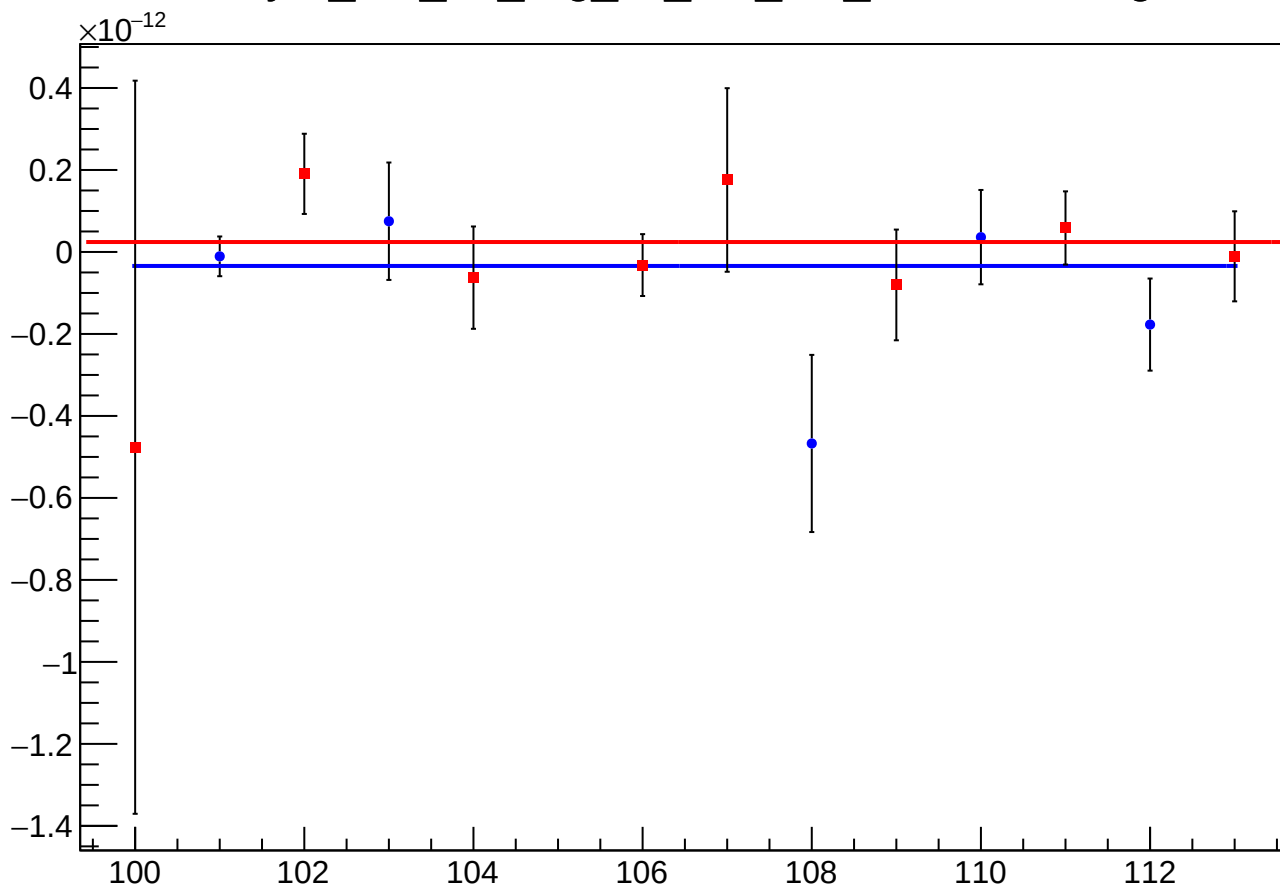
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2843.006+/-0.874  $\chi^2/\text{NDF}$ : 845330.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.6/7

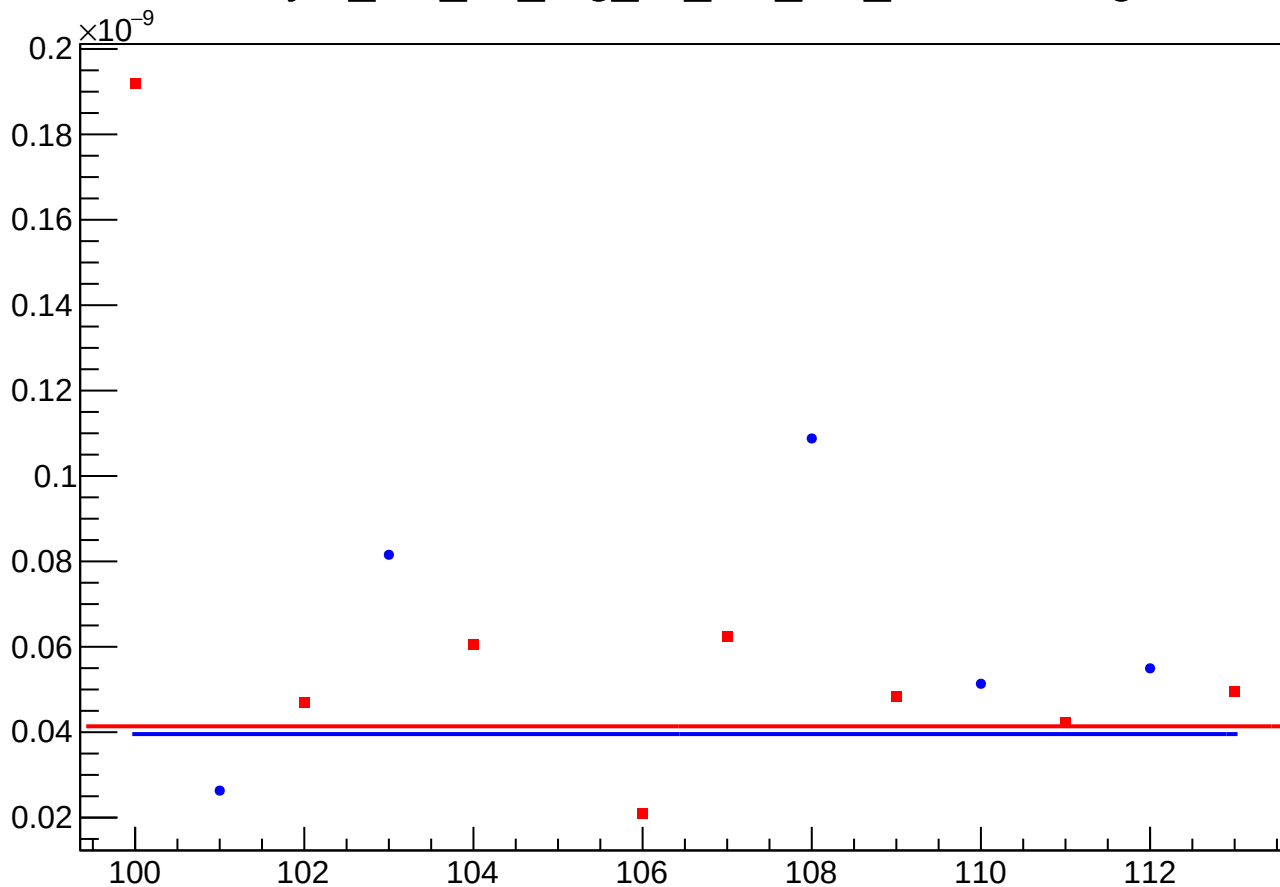
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 585158.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 291297.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

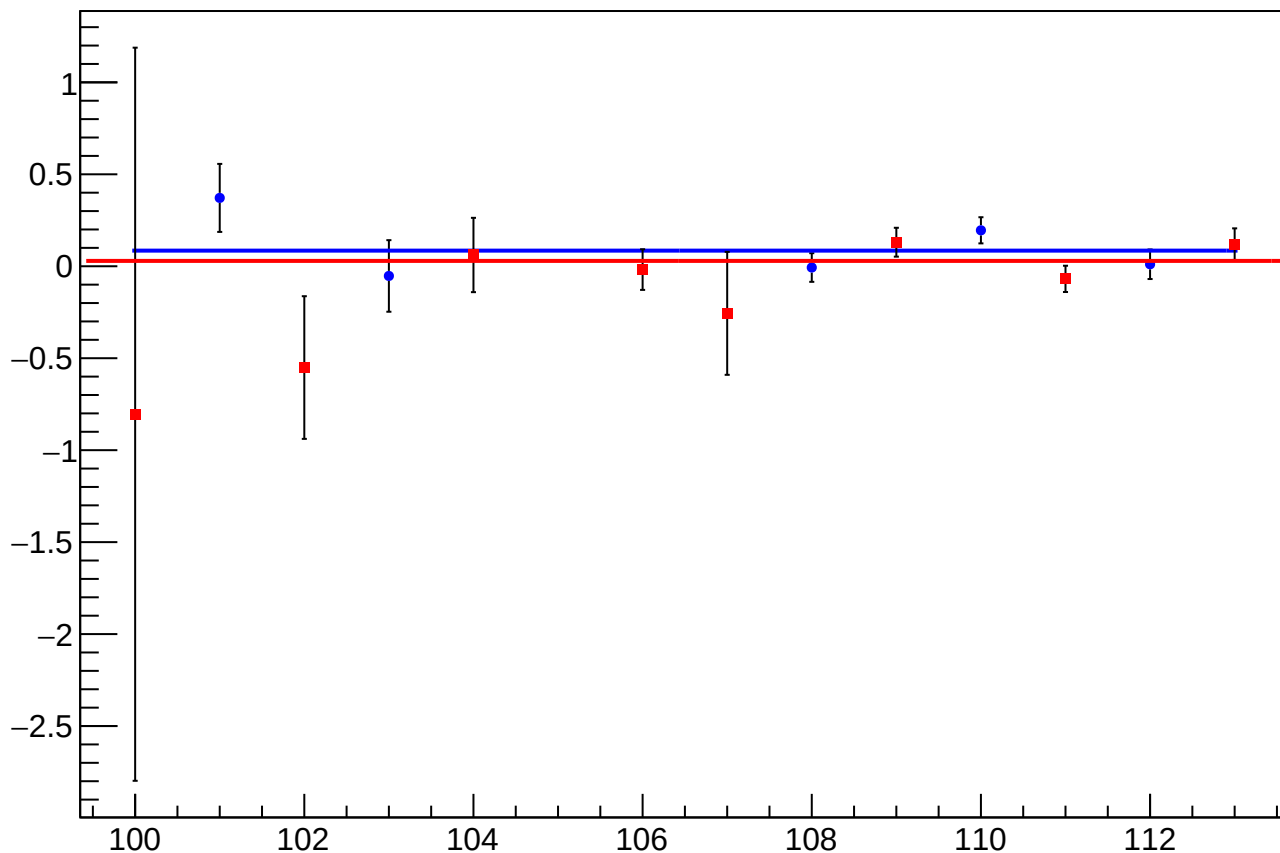
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 878579.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_at1\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.085 $\pm$ 0.042  $\chi^2$ /NDF: 7.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.029 $\pm$ 0.040  $\chi^2$ /NDF: 8.0/7

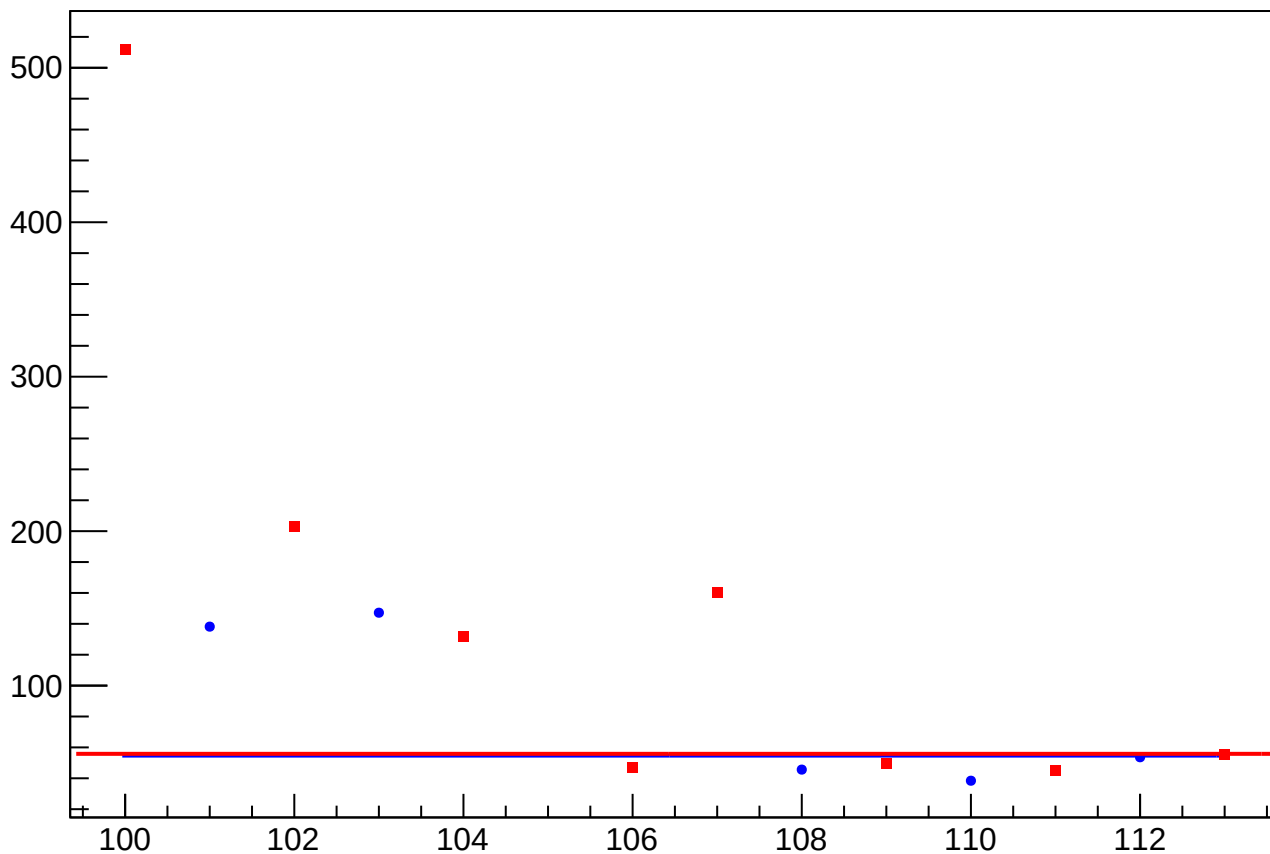
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.056 $\pm$ 0.029  $\chi^2$ /NDF: 16.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 54.700+/-0.030  $\chi^2/\text{NDF}$ : 991836.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.830+/-0.028  $\chi^2/\text{NDF}$ : 943834.7/7

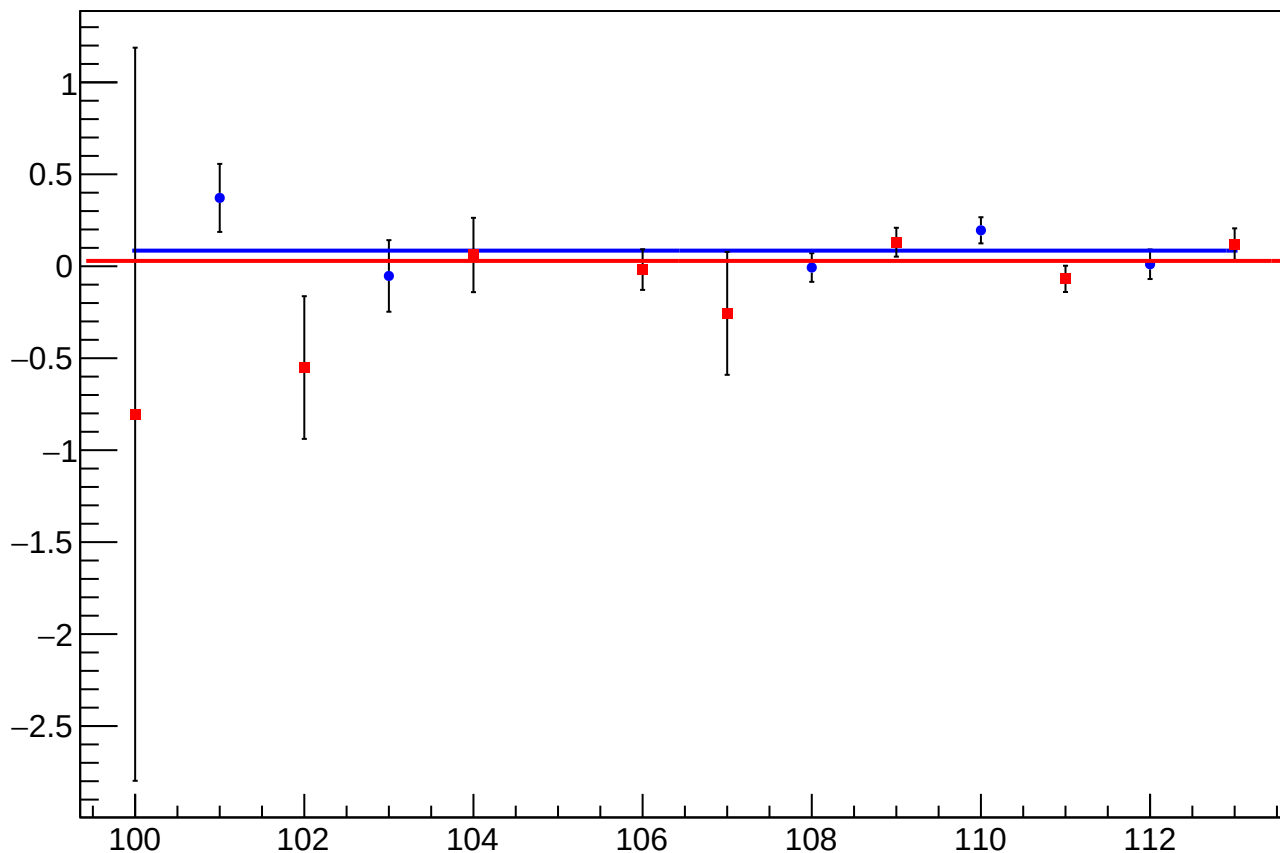
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 55.285+/-0.021  $\chi^2/\text{NDF}$ : 1936430.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.085+/-0.042  $\chi^2/\text{NDF}$ : 7.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.029+/-0.040  $\chi^2/\text{NDF}$ : 8.0/7

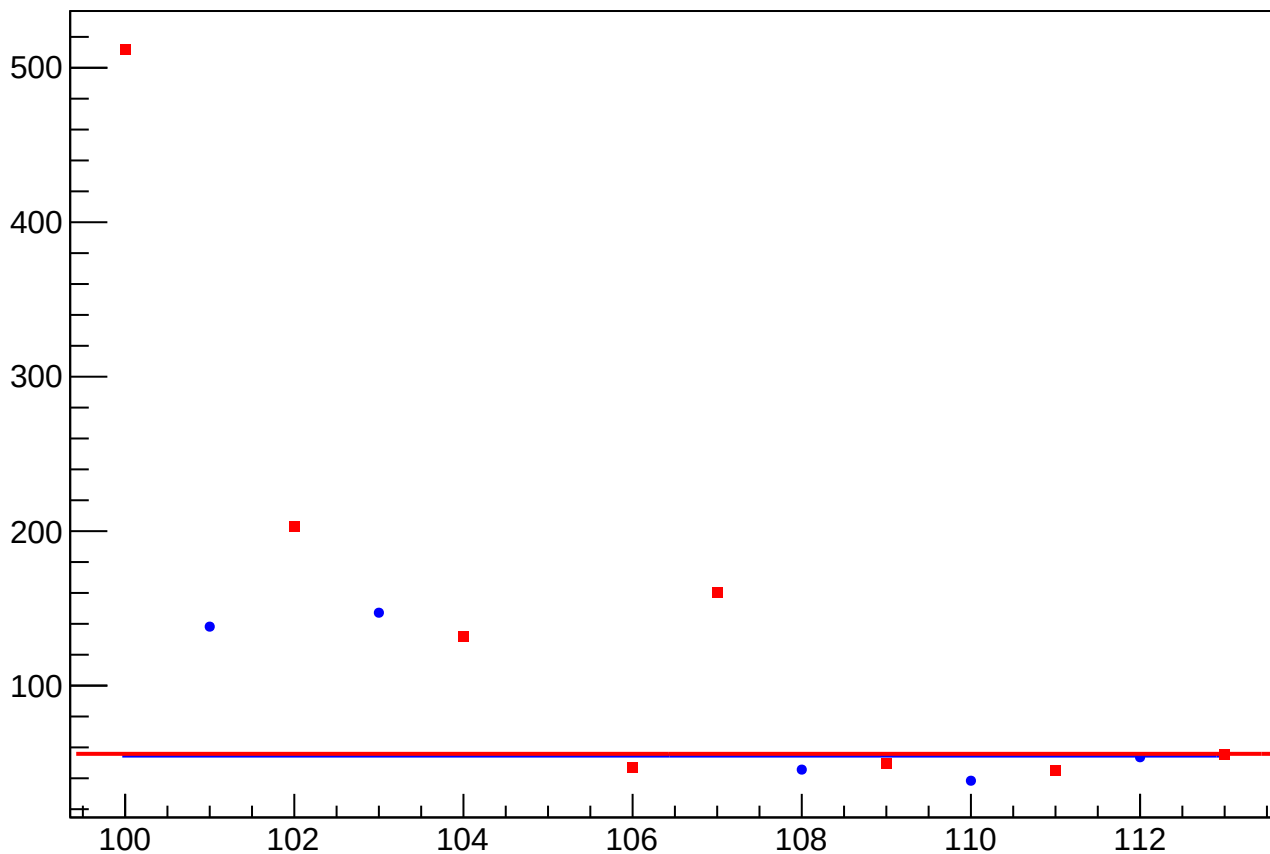
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.056+/-0.029  $\chi^2/\text{NDF}$ : 16.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 54.700+/-0.030  $\chi^2/\text{NDF}$ : 991836.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.830+/-0.028  $\chi^2/\text{NDF}$ : 943834.7/7

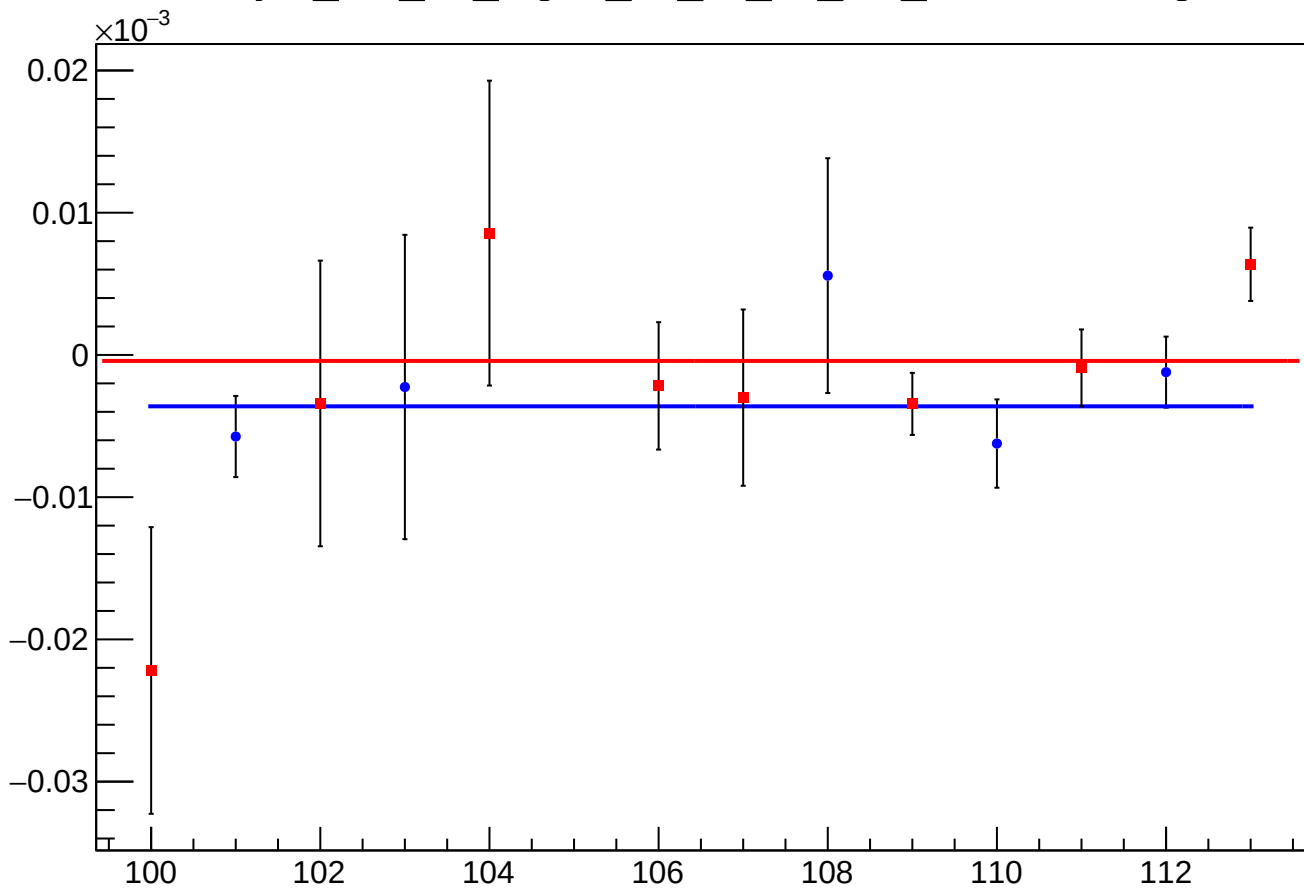
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 55.285+/-0.021  $\chi^2/\text{NDF}$ : 1936430.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 3.4/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 14.7/7

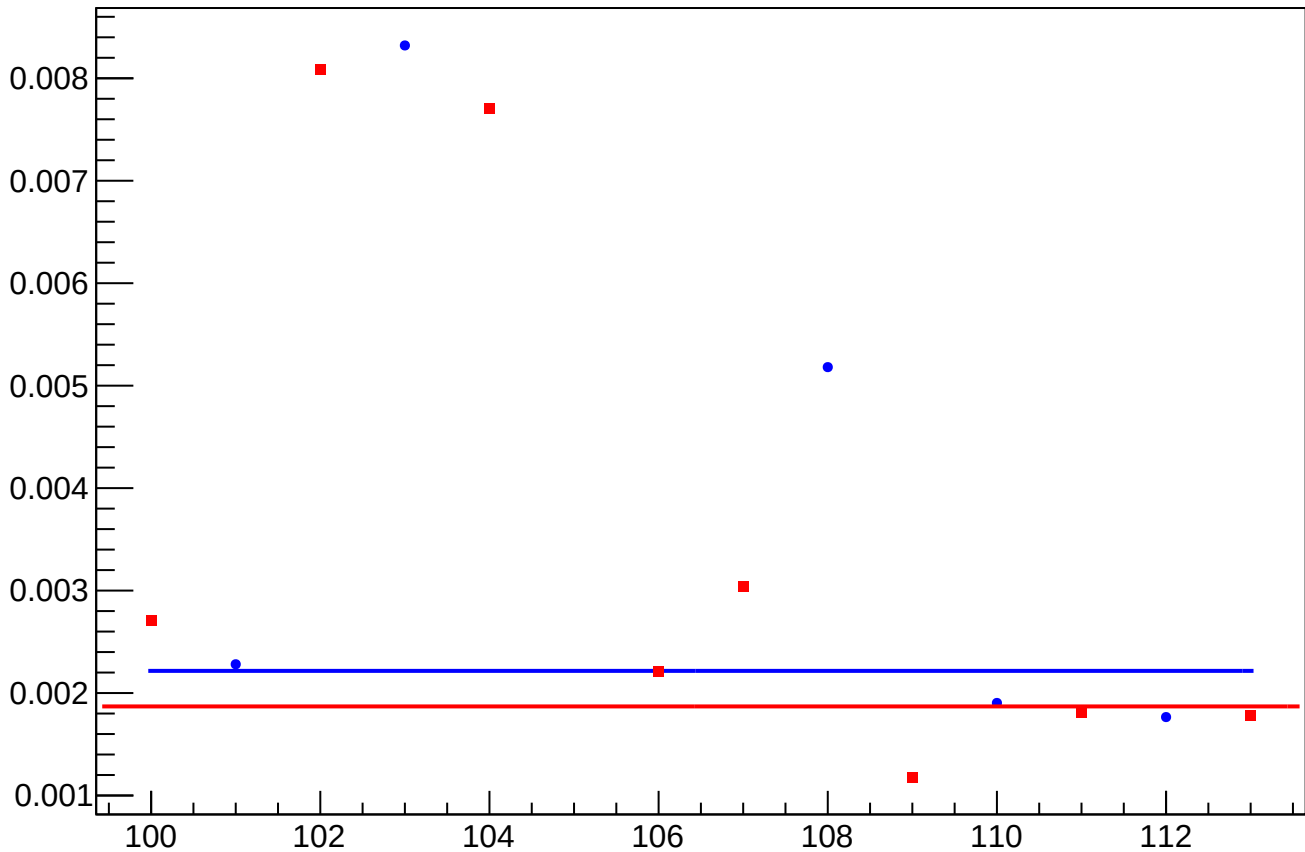
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 20.6/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 995471.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1662492.0/7

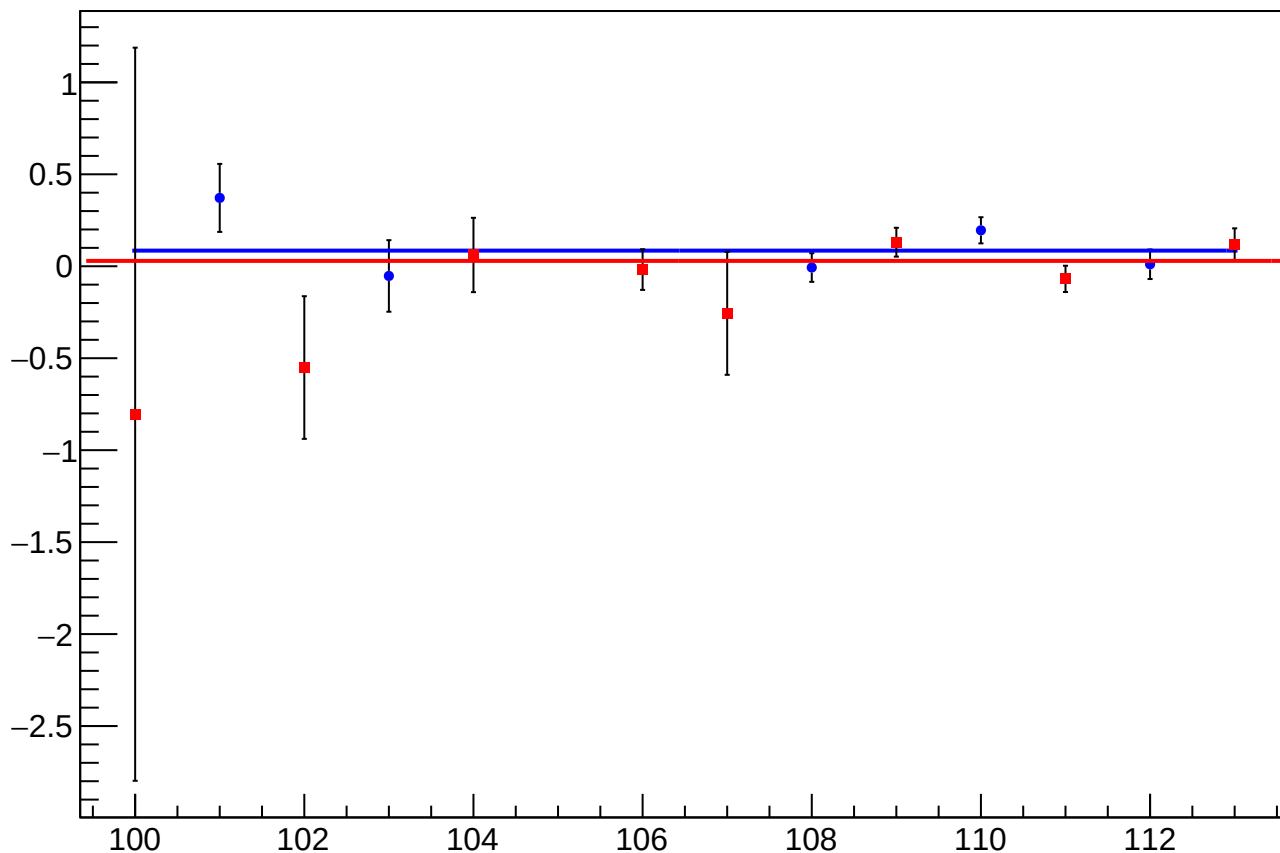
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2716685.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.085 $\pm$ 0.042  $\chi^2$ /NDF: 7.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.029 $\pm$ 0.040  $\chi^2$ /NDF: 8.0/7

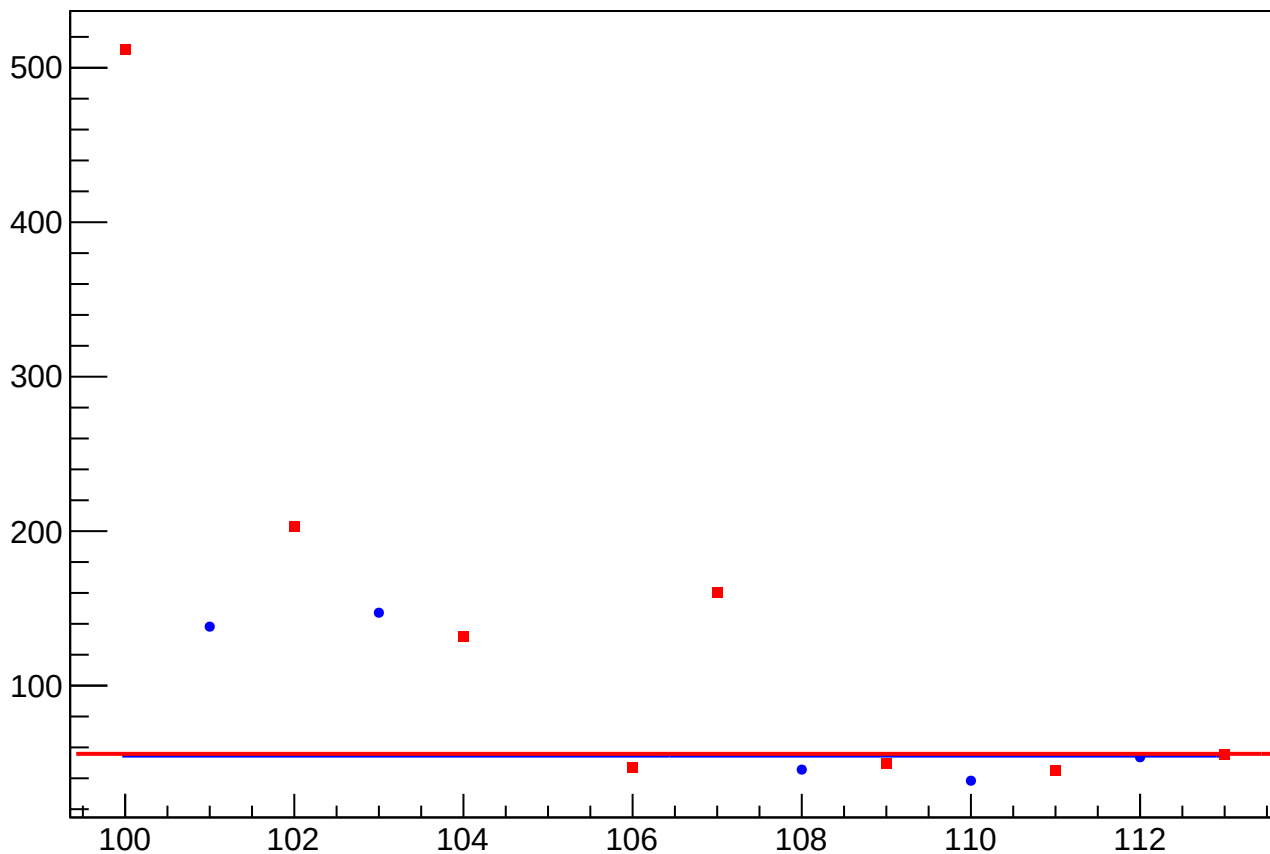
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.056 $\pm$ 0.029  $\chi^2$ /NDF: 16.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 54.700+/-0.030  $\chi^2/\text{NDF}$ : 991803.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.830+/-0.028  $\chi^2/\text{NDF}$ : 943799.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

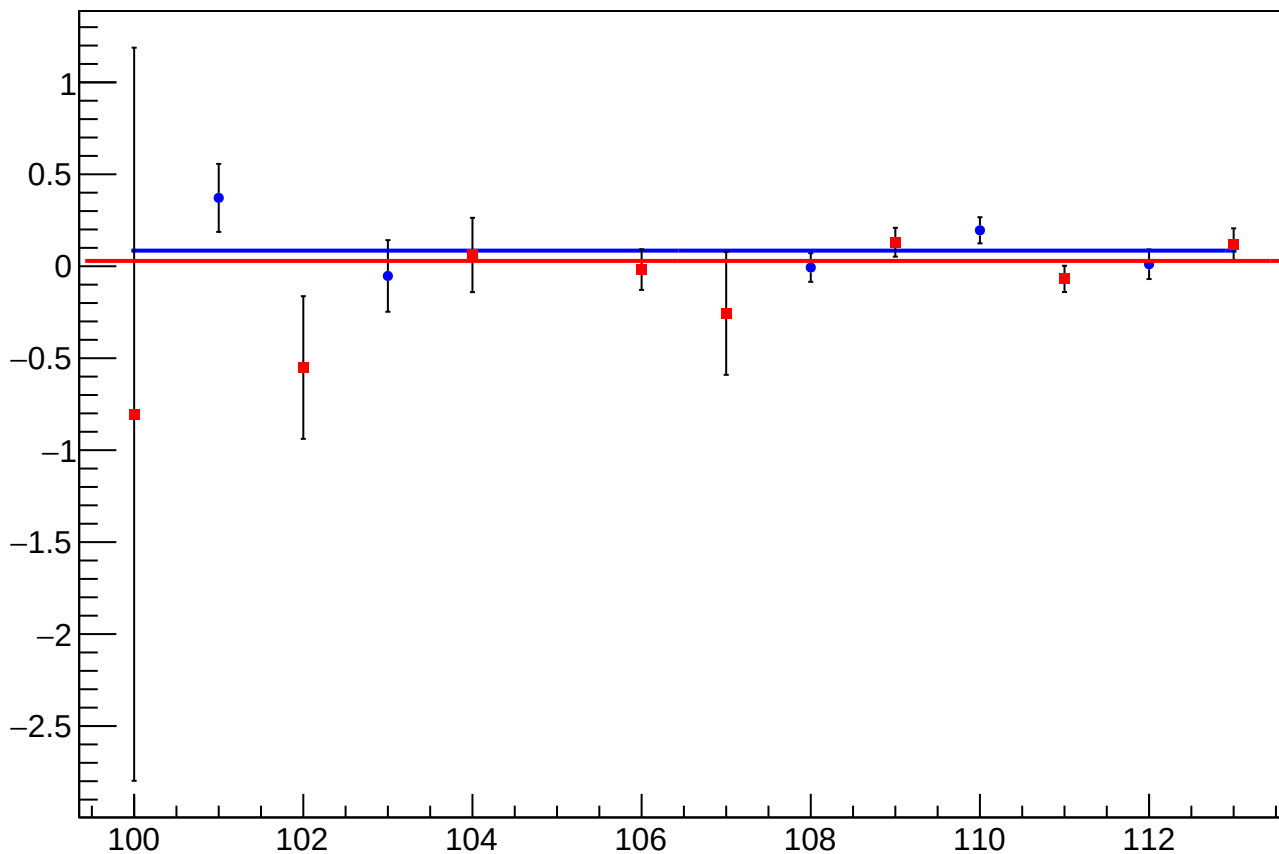
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 55.285+/-0.021  $\chi^2/\text{NDF}$ : 1936361.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_at1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.085 $\pm$ 0.042  $\chi^2$ /NDF: 7.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.029 $\pm$ 0.040  $\chi^2$ /NDF: 8.0/7

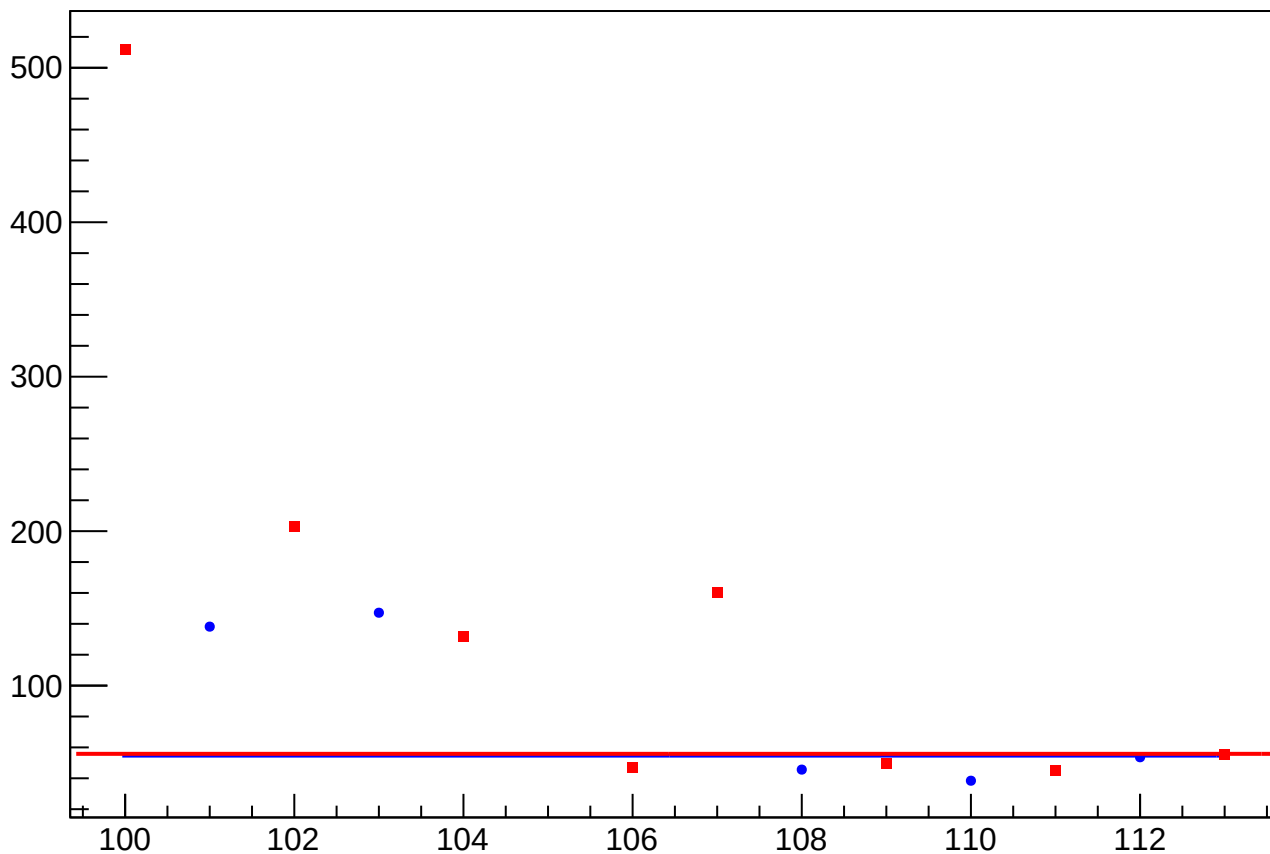
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.056 $\pm$ 0.029  $\chi^2$ /NDF: 16.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 54.700+/-0.030  $\chi^2/\text{NDF}$ : 991803.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.830+/-0.028  $\chi^2/\text{NDF}$ : 943799.8/7

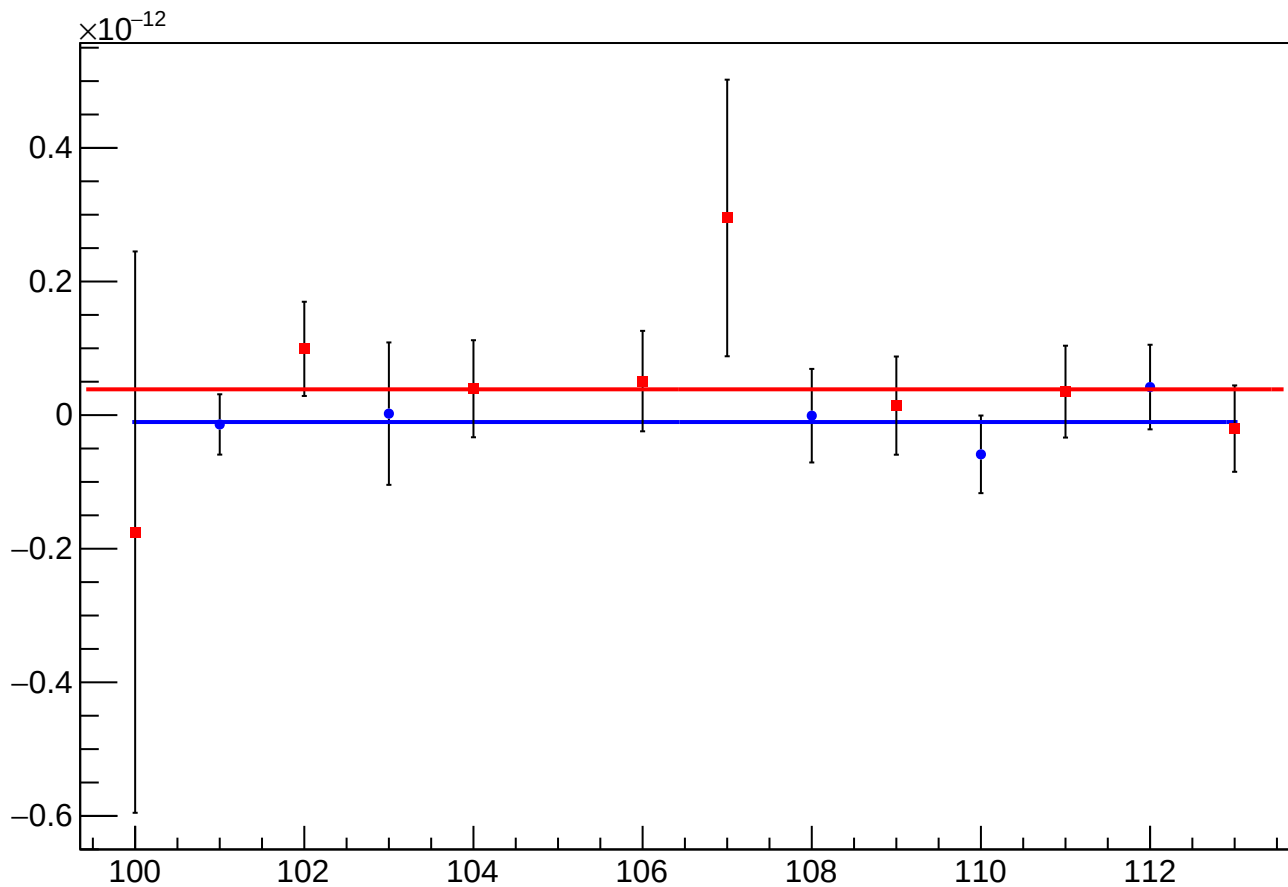
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 55.285+/-0.021  $\chi^2/\text{NDF}$ : 1936361.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.5/7

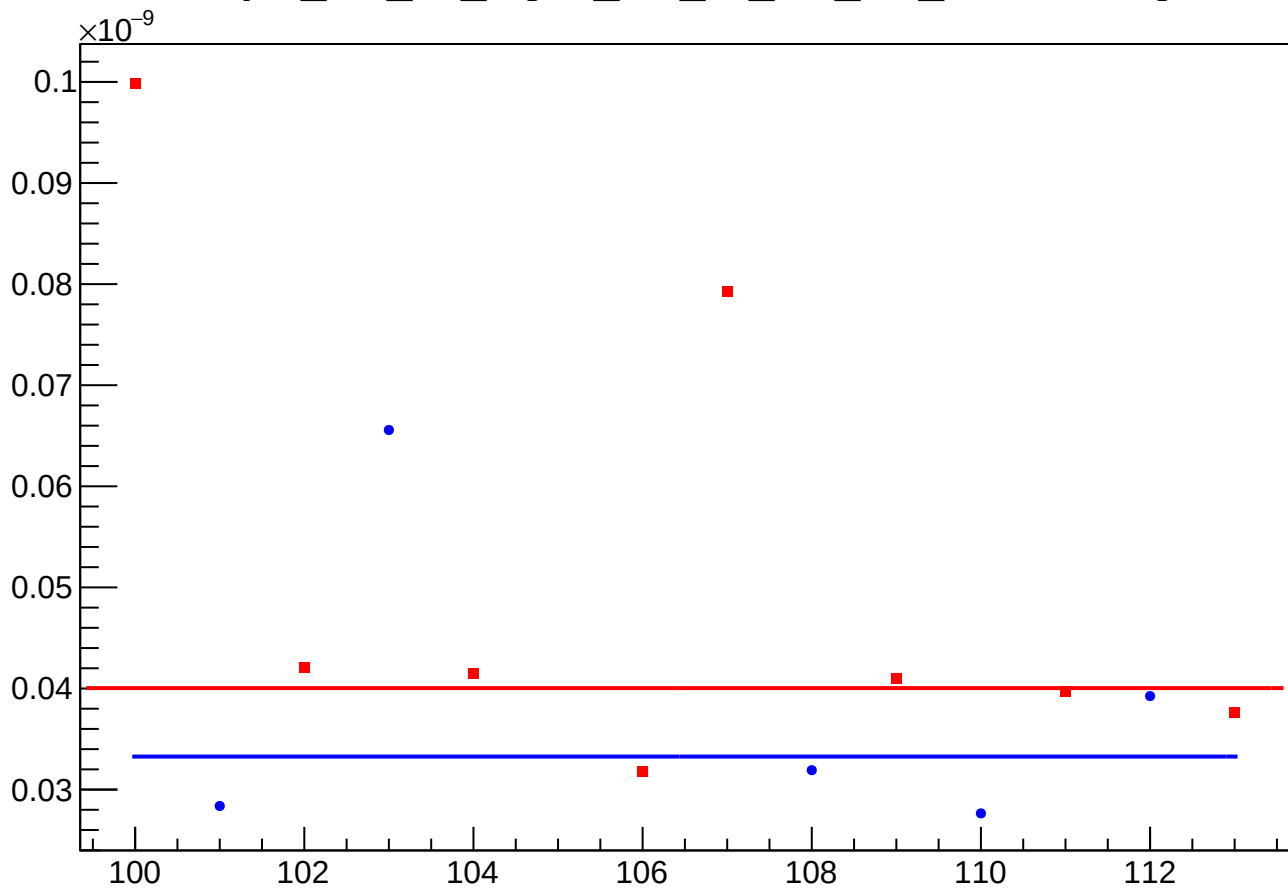
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 244438.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 142434.6/7

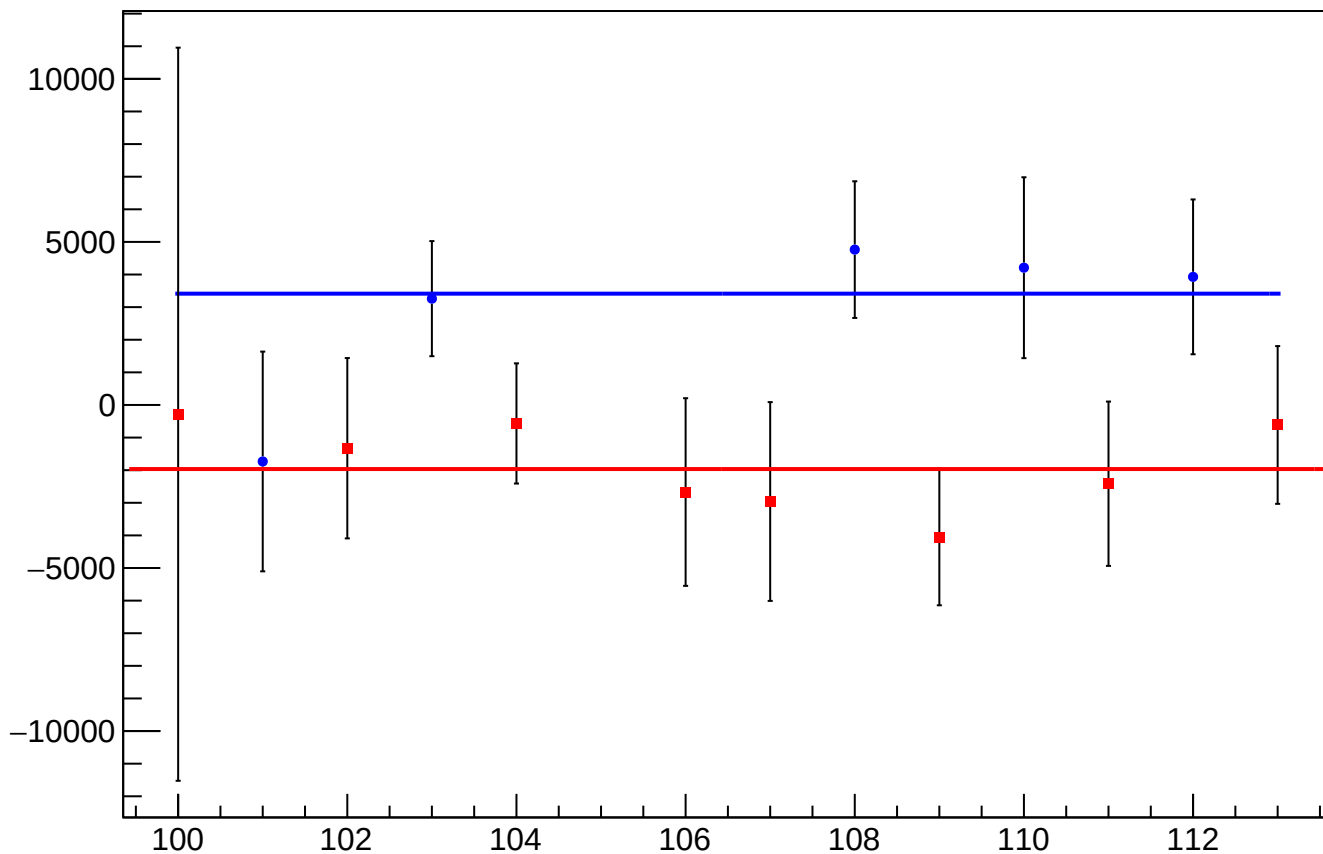
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 445495.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_mean vs Slug



Right In: 3413.277 $\pm$ 1029.022  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1964.994 $\pm$ 905.954  $\chi^2$ /NDF: 2.2/7

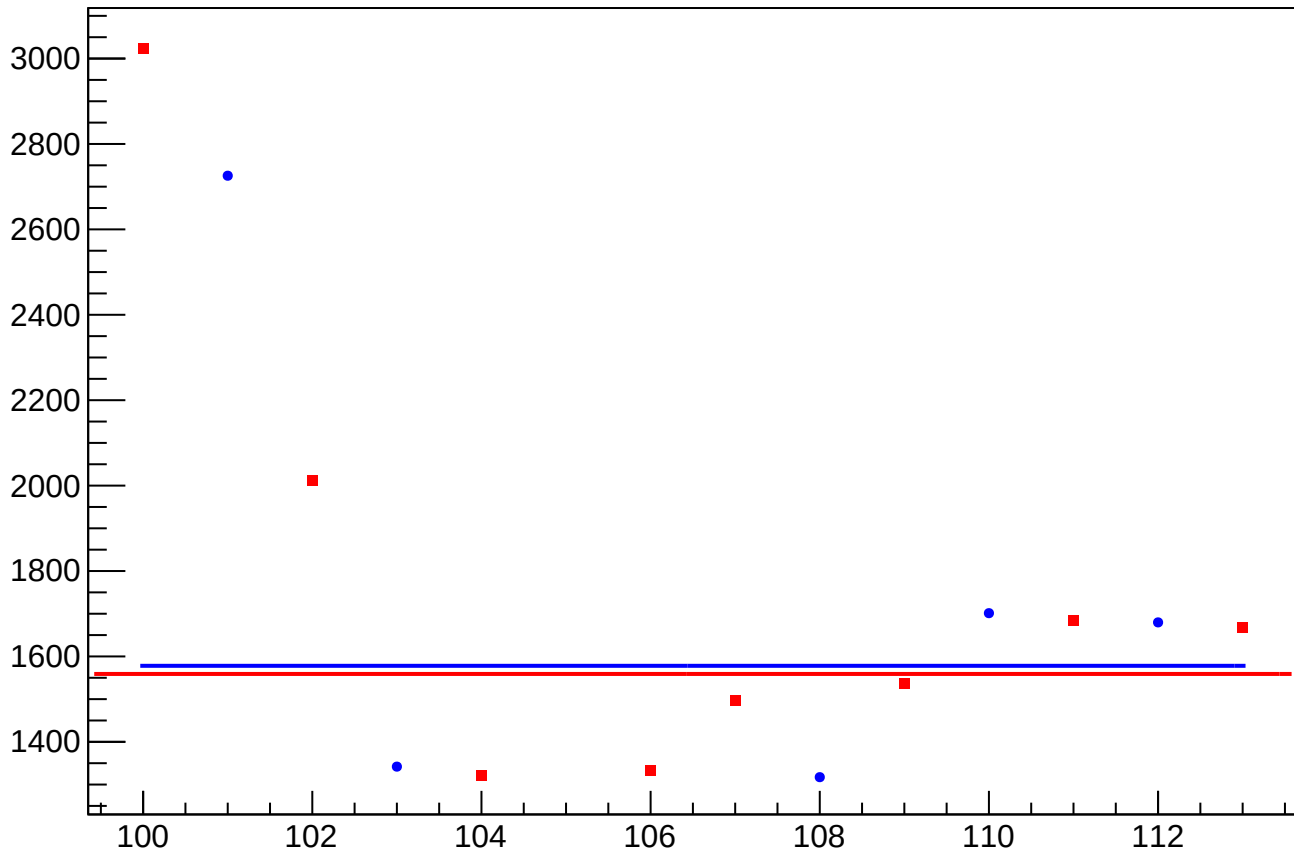
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 383.451 $\pm$ 679.976  $\chi^2$ /NDF: 20.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_avg\_rms vs Slug



Right In: 1578.042 $\pm$ 0.728  $\chi^2$ /NDF: 306435.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1558.985 $\pm$ 0.641  $\chi^2$ /NDF: 143799.5/7

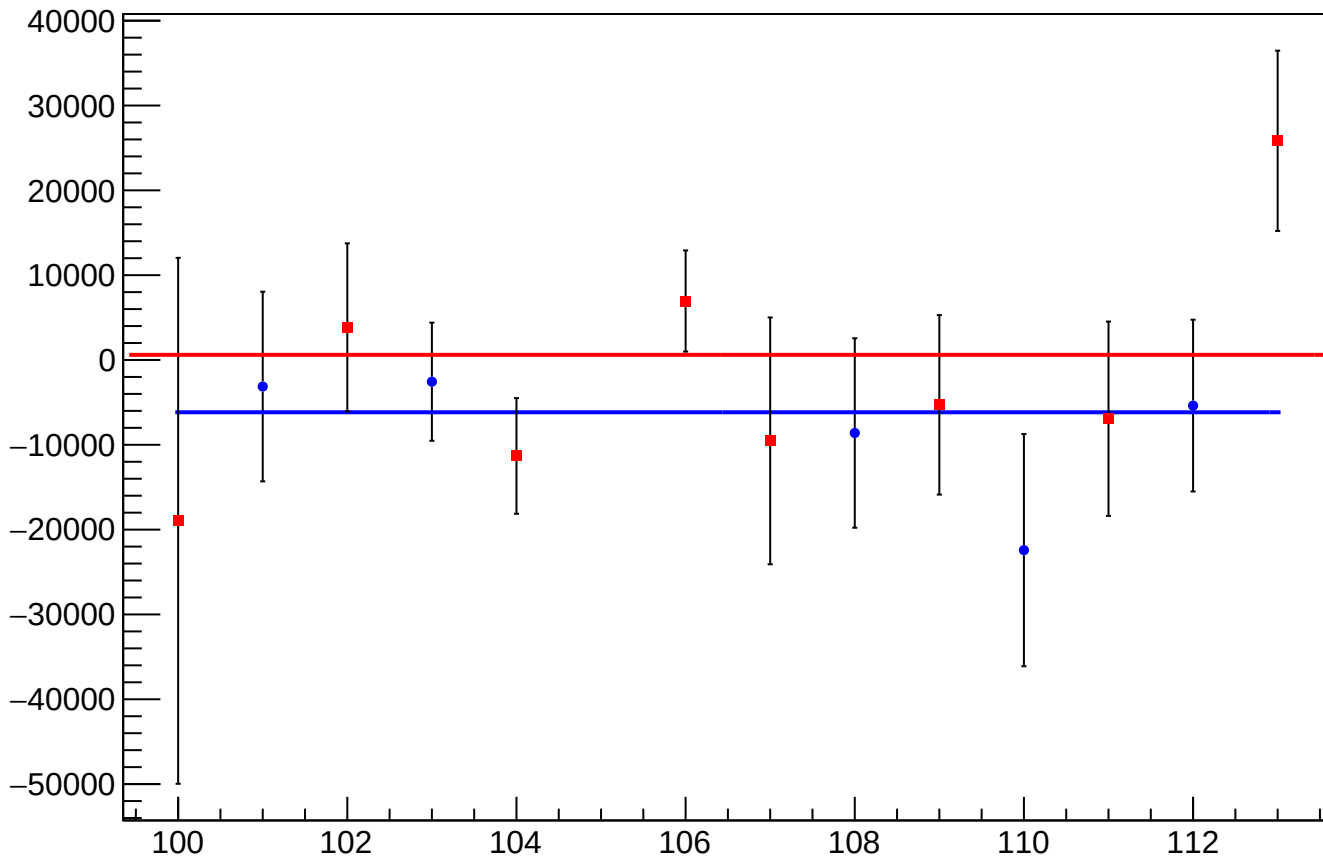
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1567.306 $\pm$ 0.481  $\chi^2$ /NDF: 450621.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_avg\_reg\_correction\_mean vs Slug



Right In: -6165.489+/-4396.958  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 606.026+/-3314.958  $\chi^2/\text{NDF}$ : 11.6/7

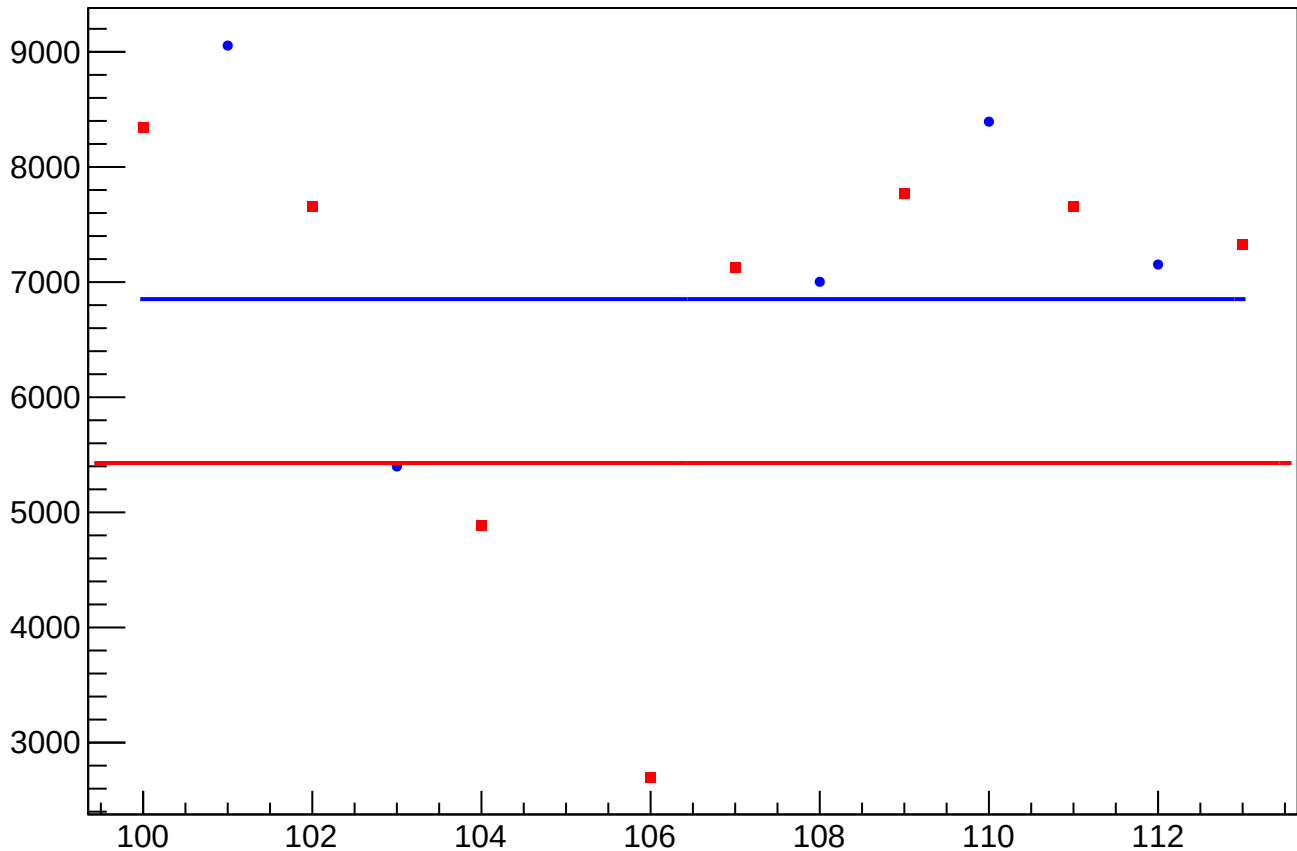
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1848.013+/-2646.977  $\chi^2/\text{NDF}$ : 14.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_reg\_correction\_rms vs Slug



Right In: 6852.199+/-3.109  $\chi^2/\text{NDF}$ : 192213.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5428.713+/-2.344  $\chi^2/\text{NDF}$ : 814757.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

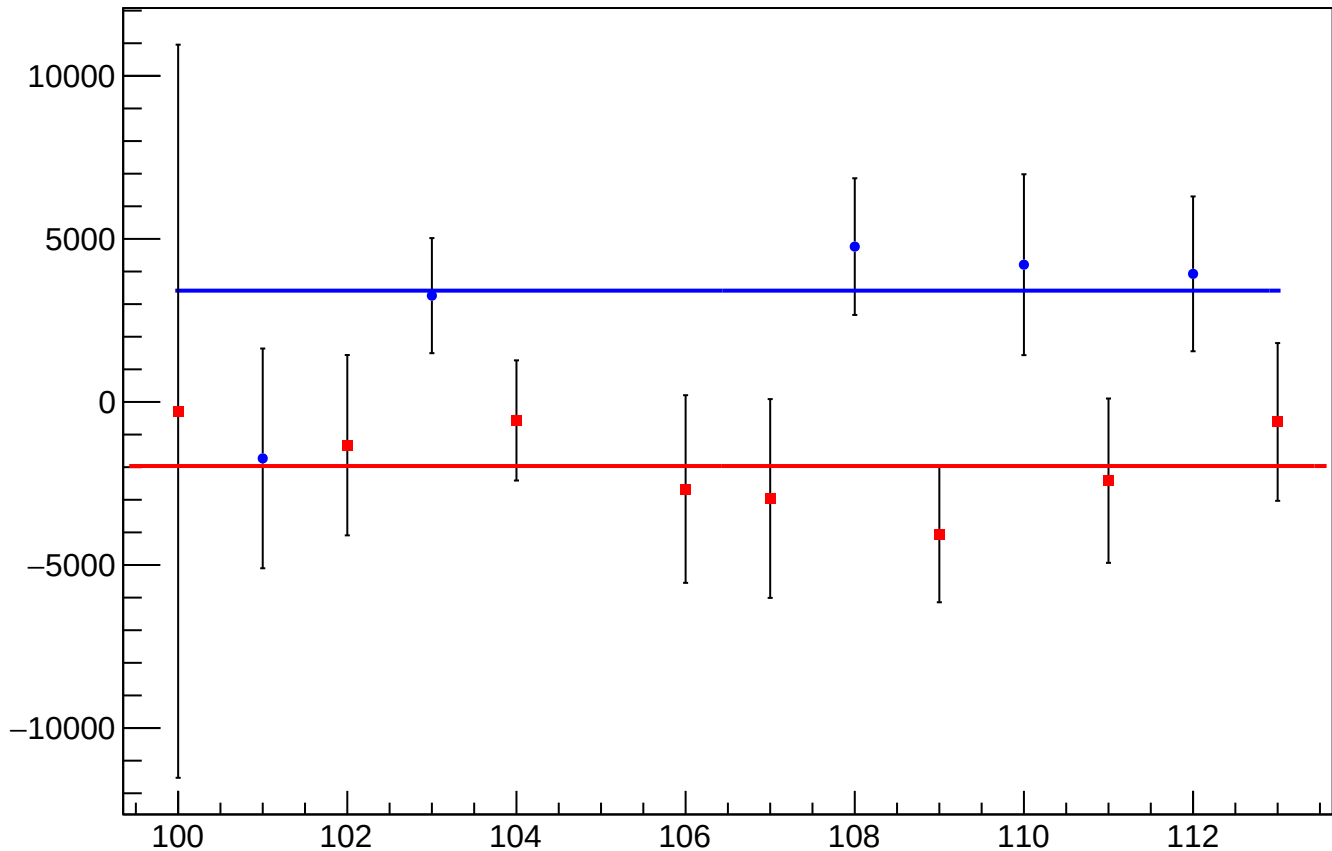
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5944.593+/-1.872  $\chi^2/\text{NDF}$ : 1140623.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_at2\_avg\_mean vs Slug



Right In: 3413.398 $\pm$ 1029.022  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1964.675 $\pm$ -905.954  $\chi^2$ /NDF: 2.2/7

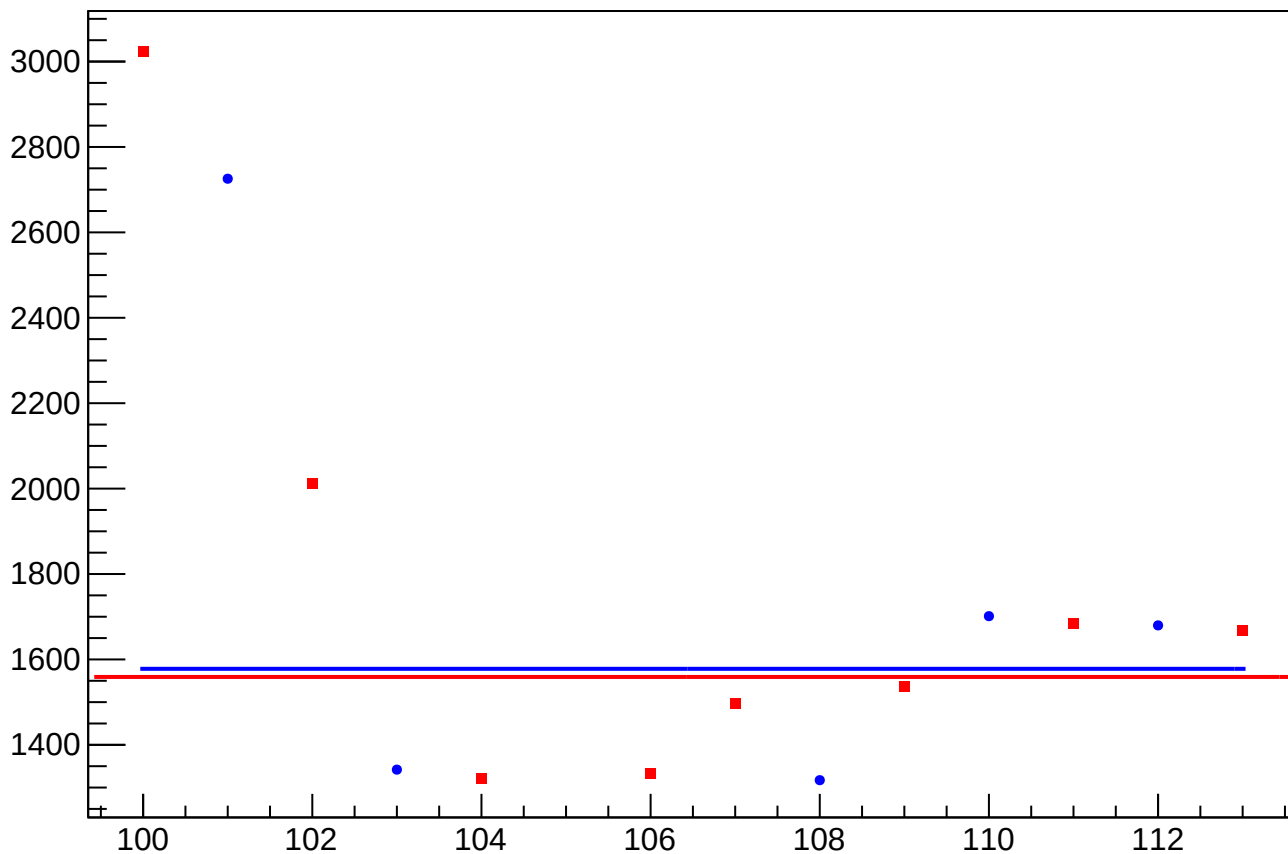
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 383.683 $\pm$ -679.976  $\chi^2$ /NDF: 20.4/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_at2\_avg\_rms vs Slug



Right In: 1578.041 $\pm$ 0.728  $\chi^2$ /NDF: 306435.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1558.985 $\pm$ 0.641  $\chi^2$ /NDF: 143799.3/7

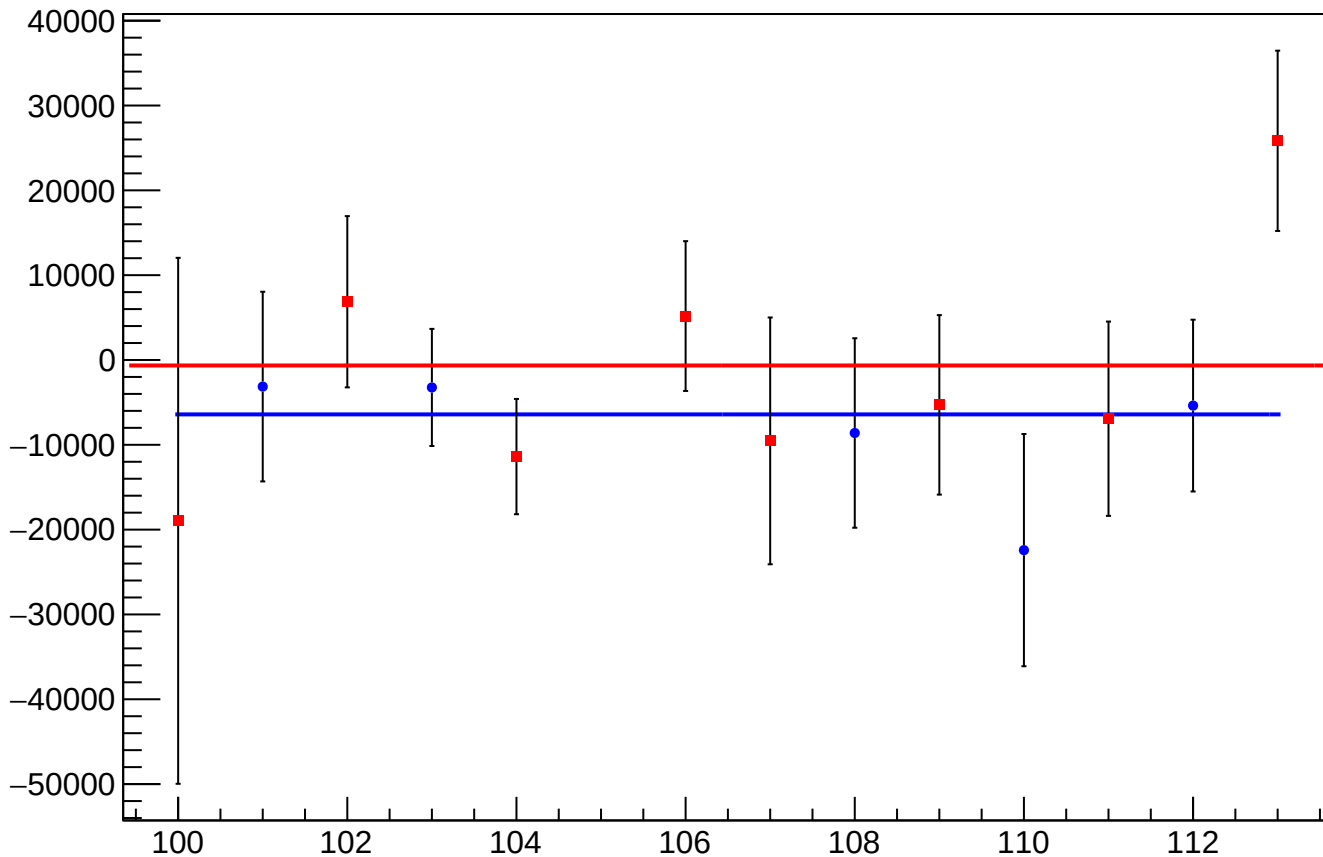
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1567.306 $\pm$ 0.481  $\chi^2$ /NDF: 450621.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_avg\_cor\_correction\_mean vs Slug



Right In: -6414.842+/-4381.929  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -646.846+/-3640.521  $\chi^2/\text{NDF}$ : 10.9/7

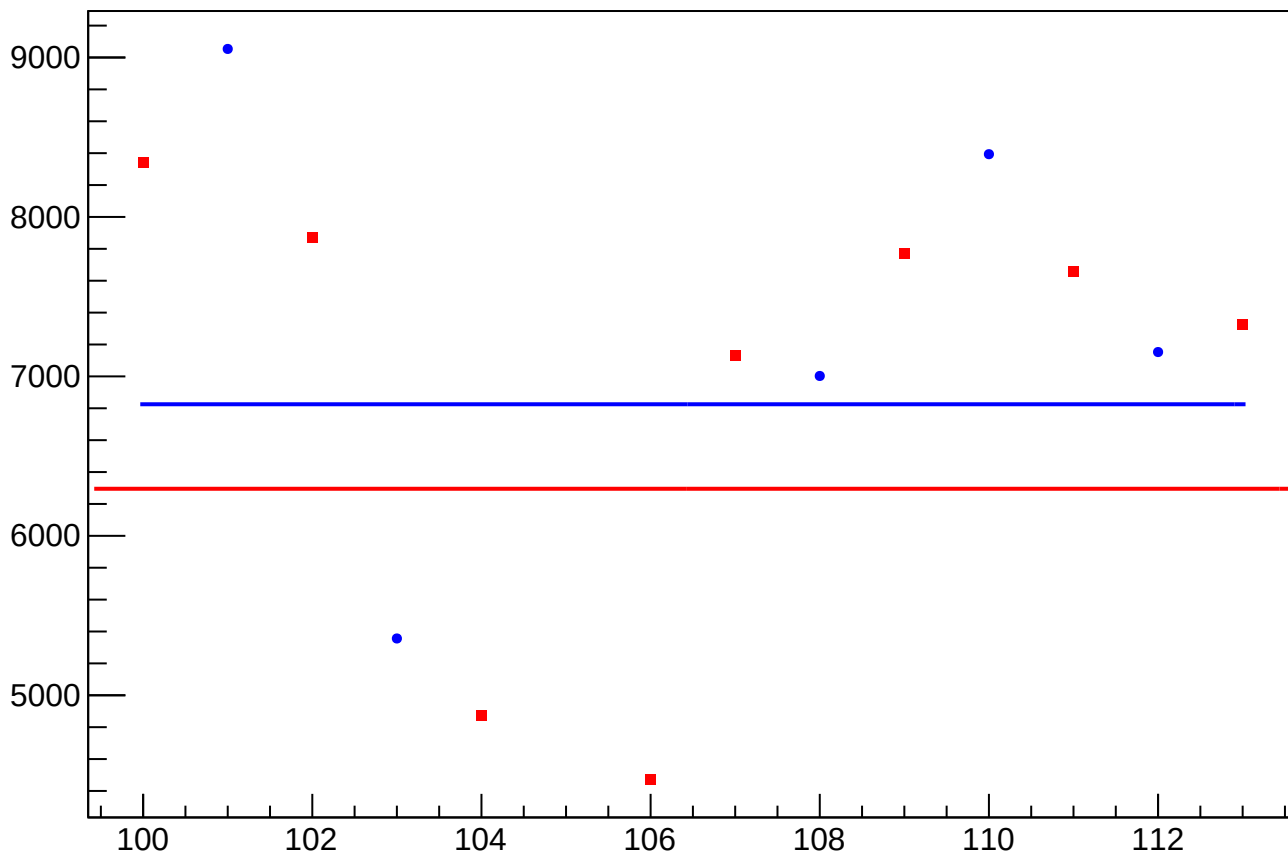
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3002.299+/-2800.207  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_cor\_correction\_rms vs Slug



Right In: 6825.195+/-3.098  $\chi^2/\text{NDF}$ : 198826.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6295.201+/-2.574  $\chi^2/\text{NDF}$ : 323096.1/7

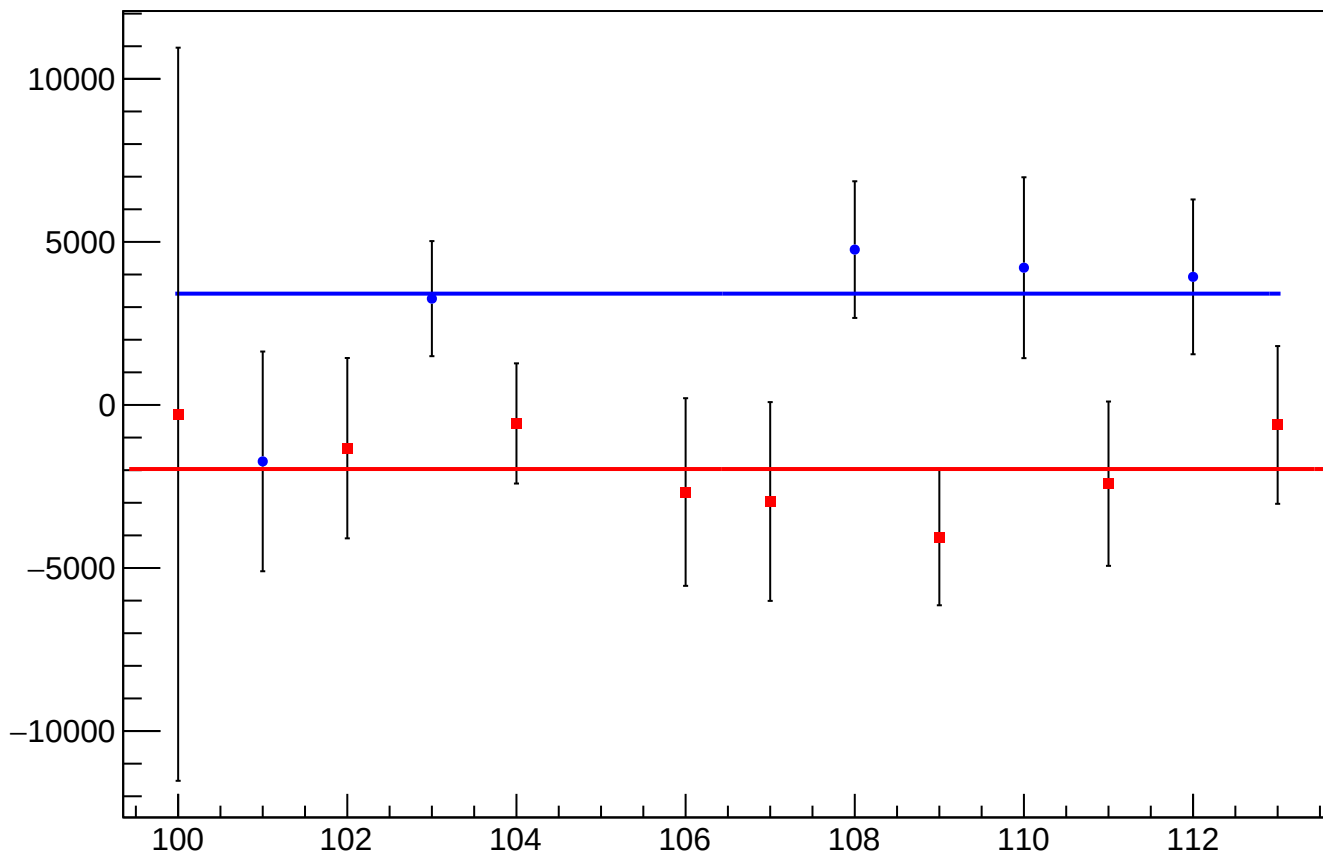
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6511.633+/-1.980  $\chi^2/\text{NDF}$ : 539232.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_at2\_avg\_mean vs Slug



Right In: 3413.398 $\pm$ 1029.022  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1964.675 $\pm$ 905.954  $\chi^2$ /NDF: 2.2/7

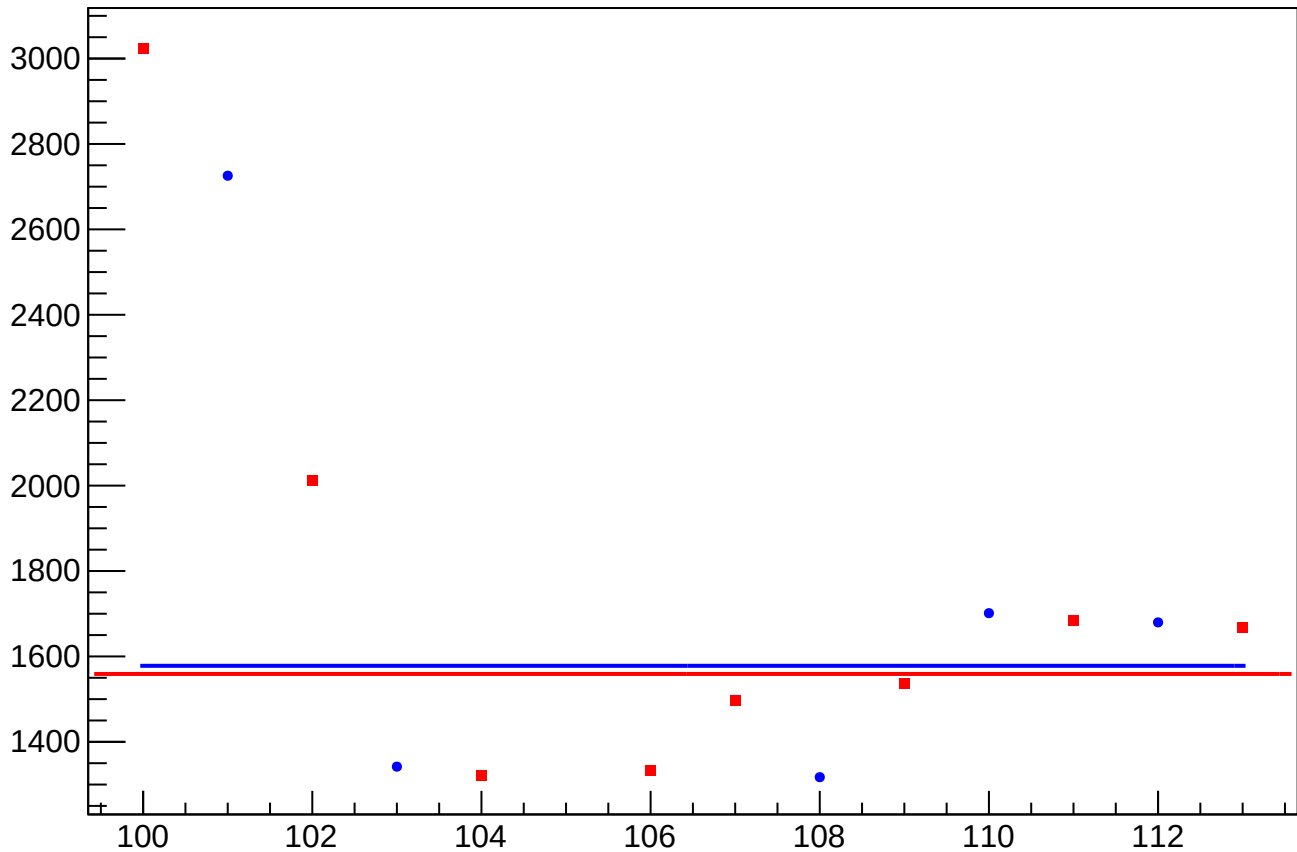
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 383.683 $\pm$ 679.976  $\chi^2$ /NDF: 20.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_at2\_avg\_rms vs Slug



Right In: 1578.041 $\pm$ 0.728  $\chi^2$ /NDF: 306435.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1558.985 $\pm$ 0.641  $\chi^2$ /NDF: 143799.3/7

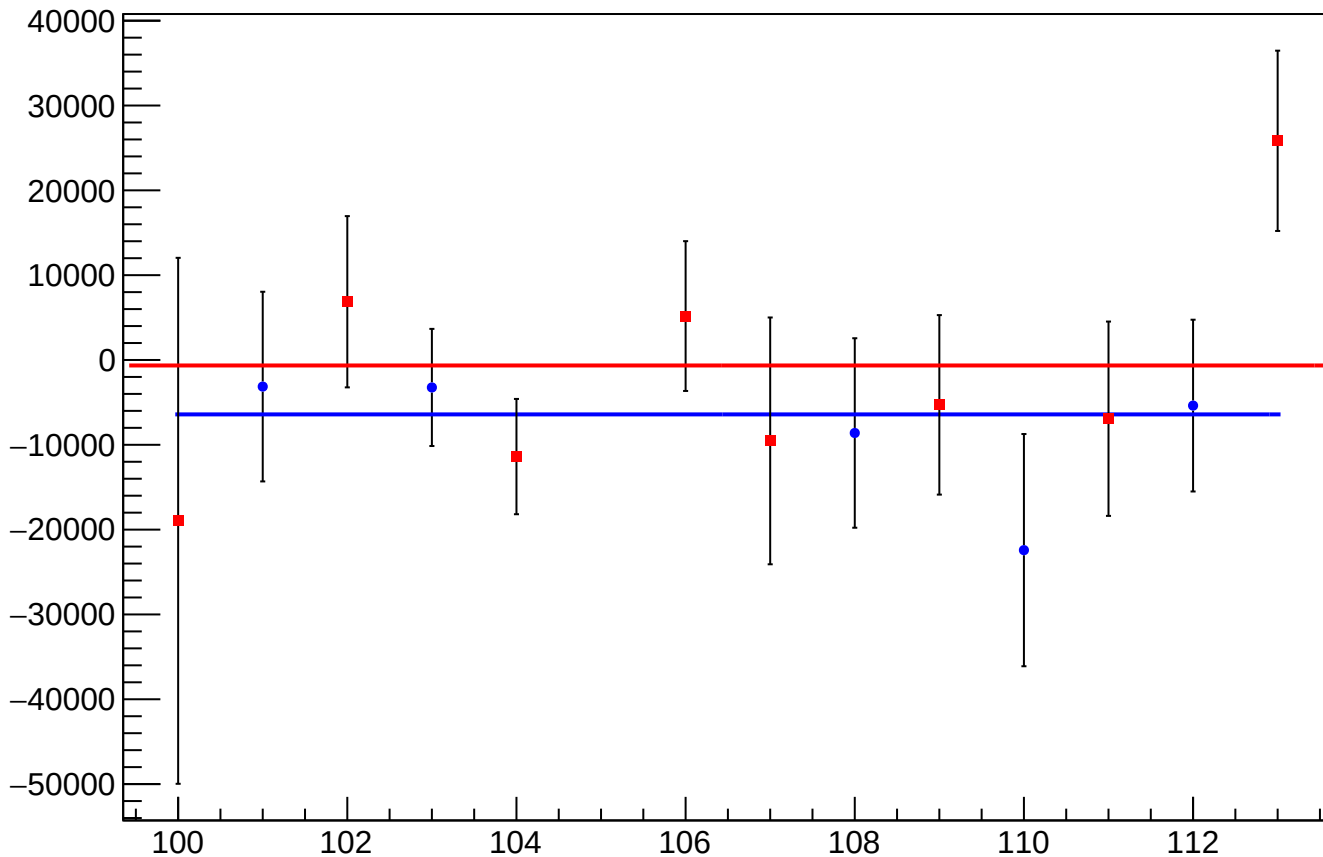
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1567.306 $\pm$ 0.481  $\chi^2$ /NDF: 450621.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -6414.842+/-4381.929  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -646.846+/-3640.521  $\chi^2/\text{NDF}$ : 10.9/7

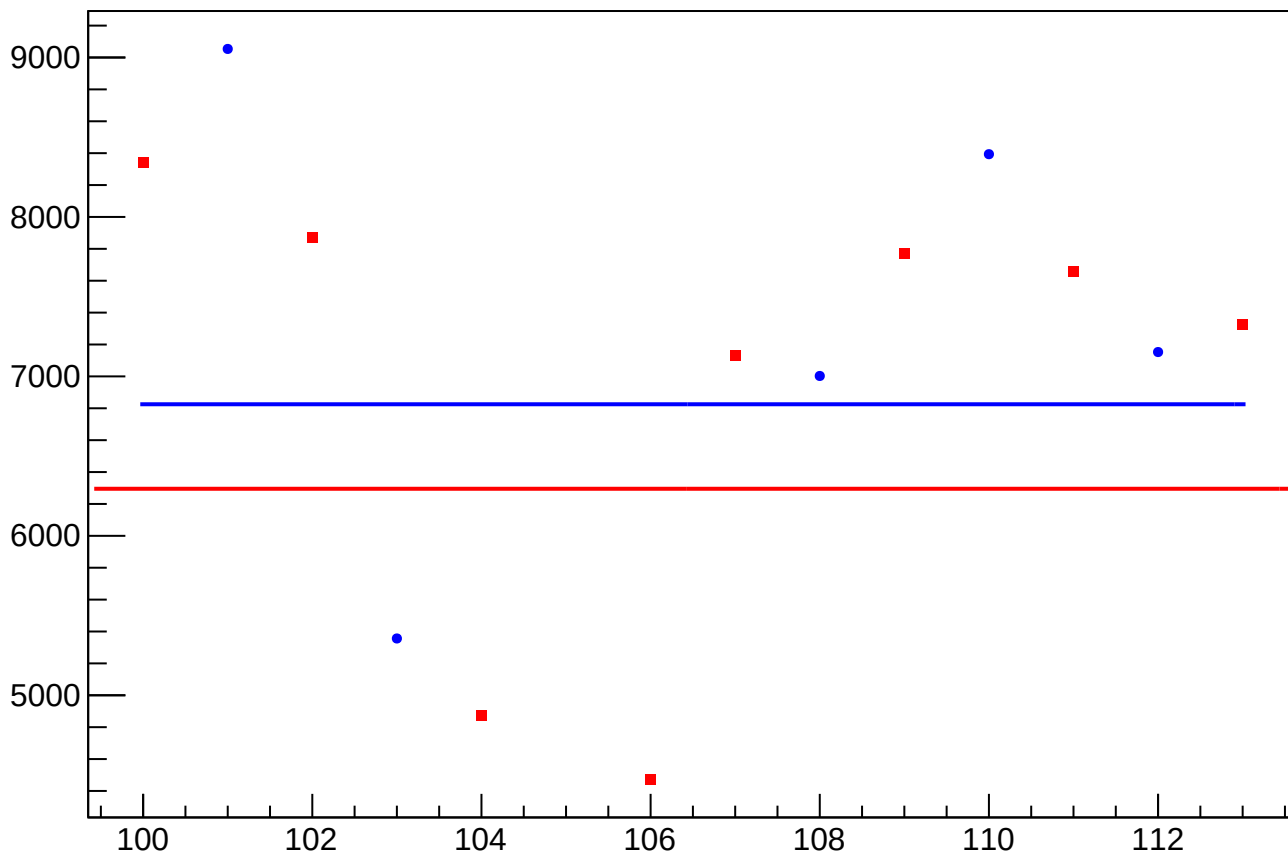
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3002.299+/-2800.207  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 6825.195+/-3.098  $\chi^2/\text{NDF}$ : 198826.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6295.201+/-2.574  $\chi^2/\text{NDF}$ : 323096.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

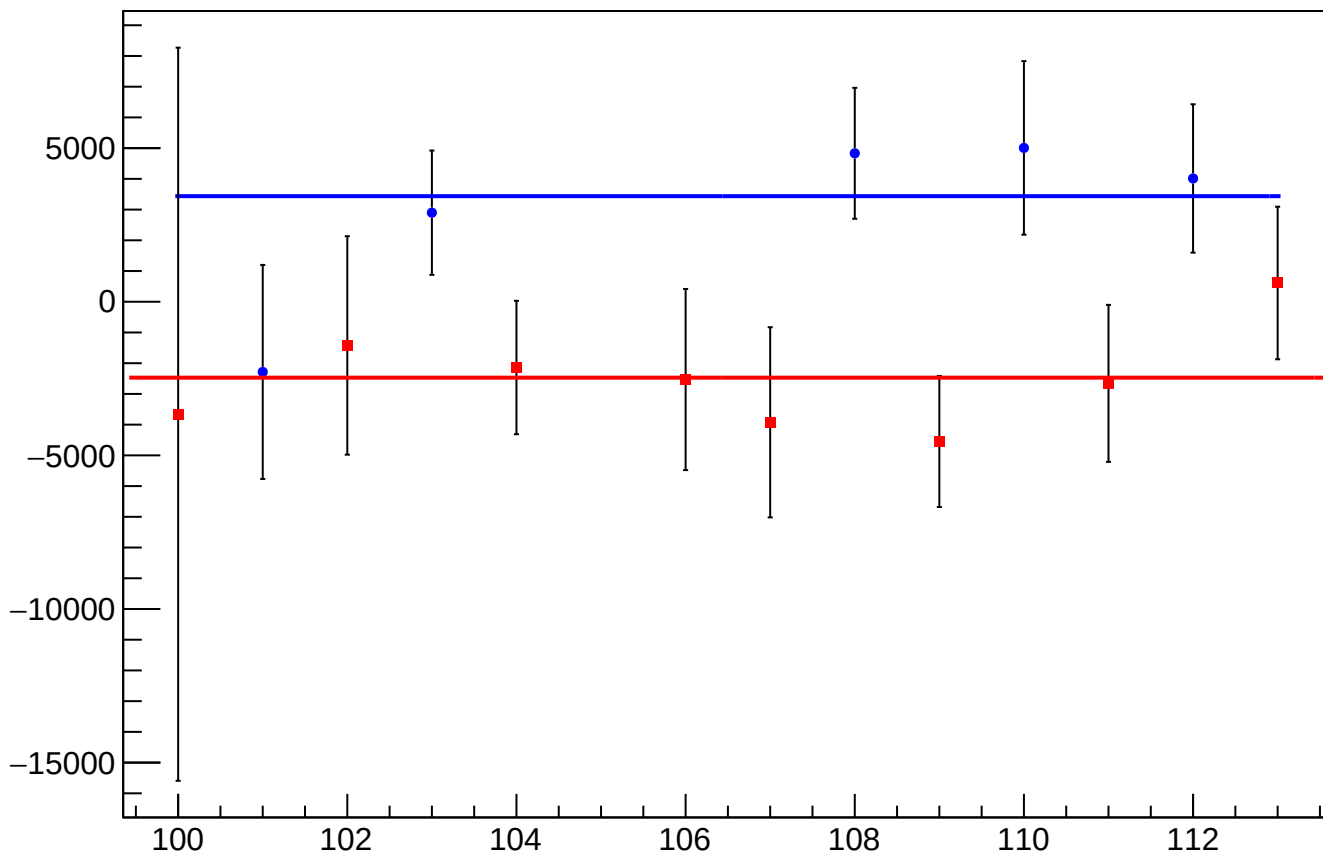
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6511.633+/-1.980  $\chi^2/\text{NDF}$ : 539232.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_at2\_avg\_mean vs Slug



Right In: 3436.555 $\pm$ 1088.736  $\chi^2$ /NDF: 3.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2470.350 $\pm$ 974.458  $\chi^2$ /NDF: 2.8/7

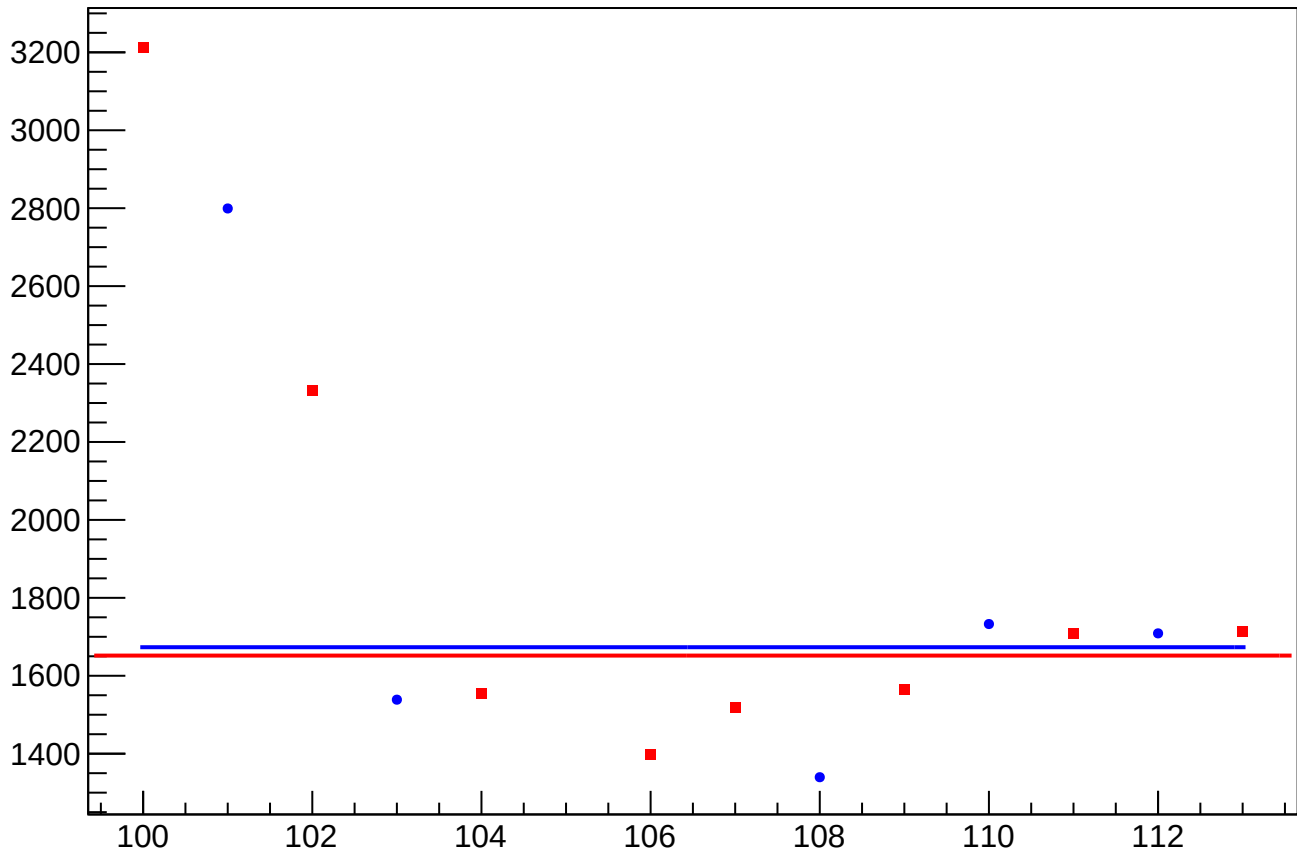
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.926 $\pm$ 726.098  $\chi^2$ /NDF: 22.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_at2\_avg\_rms vs Slug



Right In: 1673.271+/-0.770  $\chi^2/\text{NDF}$ : 268148.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

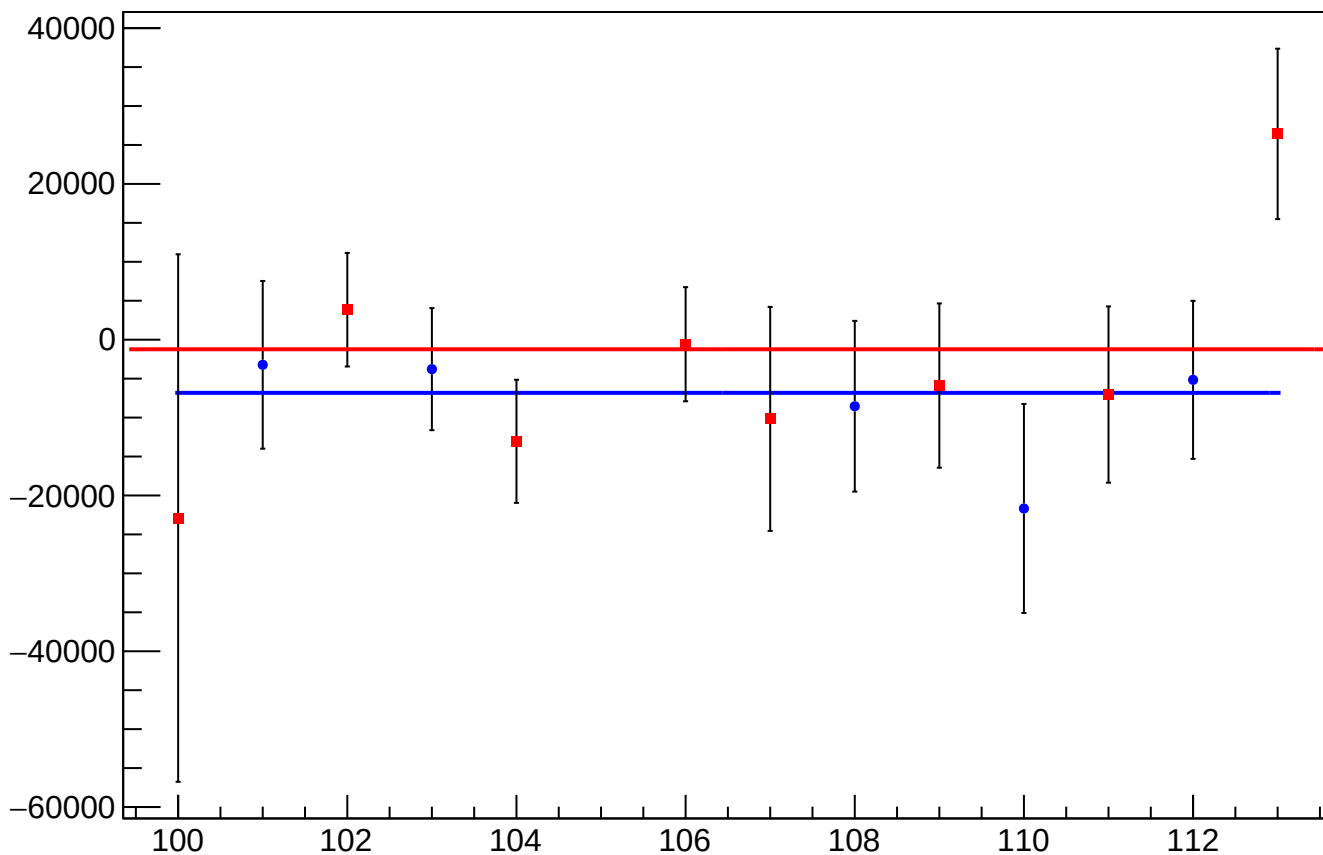
Right Out: 1651.800+/-0.688  $\chi^2/\text{NDF}$ : 135467.5/7

All: 1661.341+/-0.513  $\chi^2/\text{NDF}$ : 404048.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_dit\_correction\_mean vs Slug



Right In: -6824.962+/-4541.079  $\chi^2/\text{NDF}$ : 1.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1230.827+/-3443.968  $\chi^2/\text{NDF}$ : 10.4/7

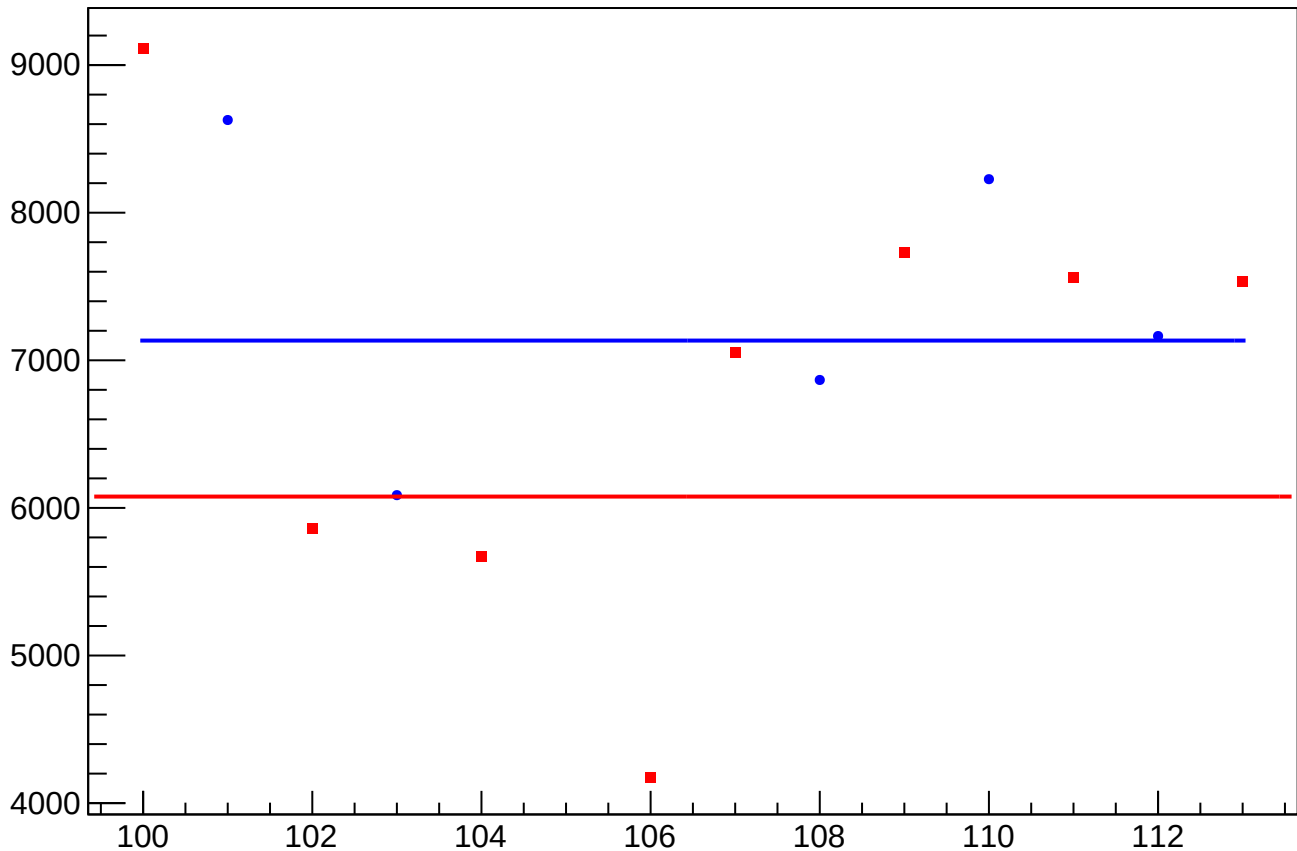
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3273.525+/-2744.067  $\chi^2/\text{NDF}$ : 12.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_dit\_correction\_rms vs Slug



Right In: 7133.665+/-3.211  $\chi^2/\text{NDF}$ : 88700.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6076.841+/-2.435  $\chi^2/\text{NDF}$ : 286001.3/7

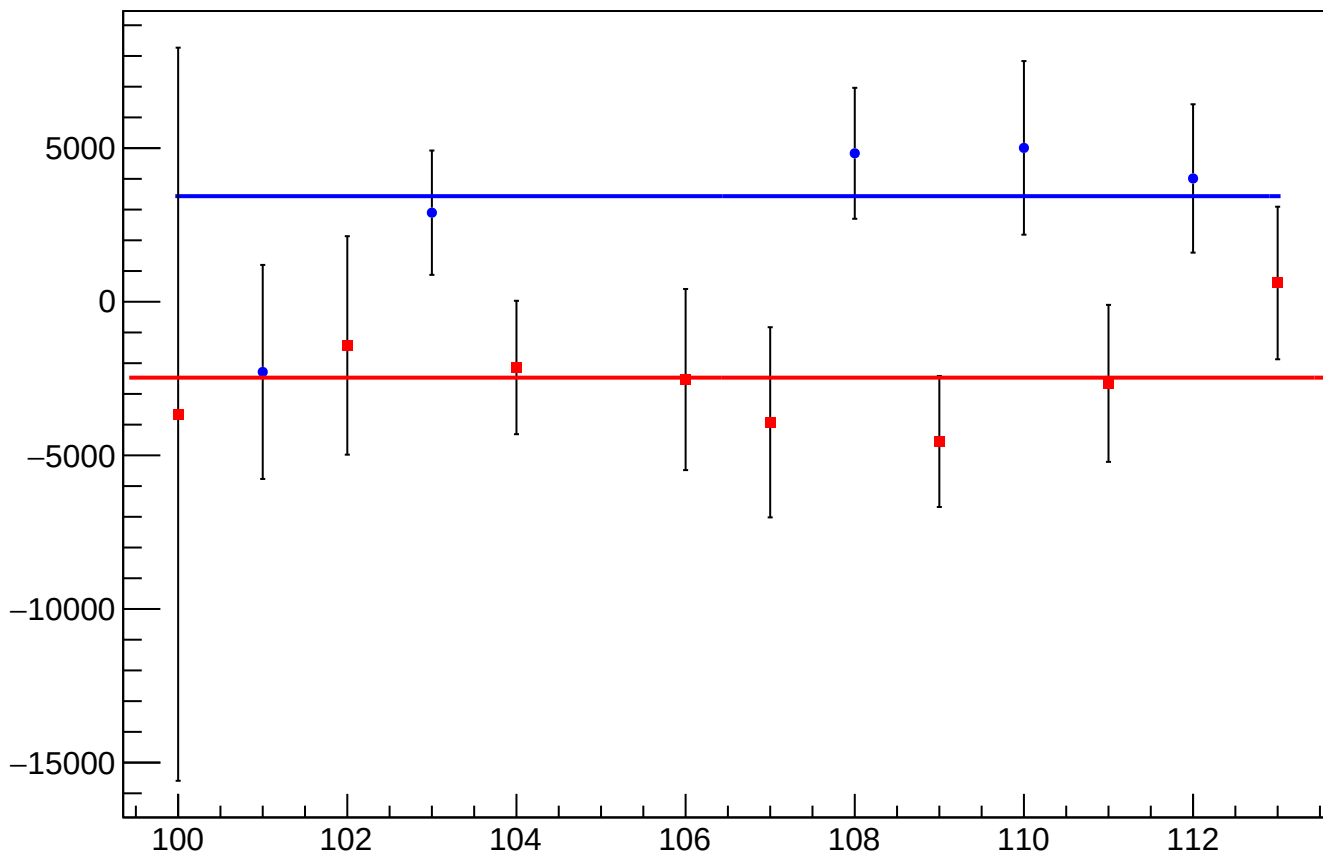
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6462.741+/-1.940  $\chi^2/\text{NDF}$ : 443470.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_at2\_avg\_mean vs Slug



Right In: 3436.566 $\pm$ 1088.736  $\chi^2$ /NDF: 3.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2470.360 $\pm$ 974.458  $\chi^2$ /NDF: 2.8/7

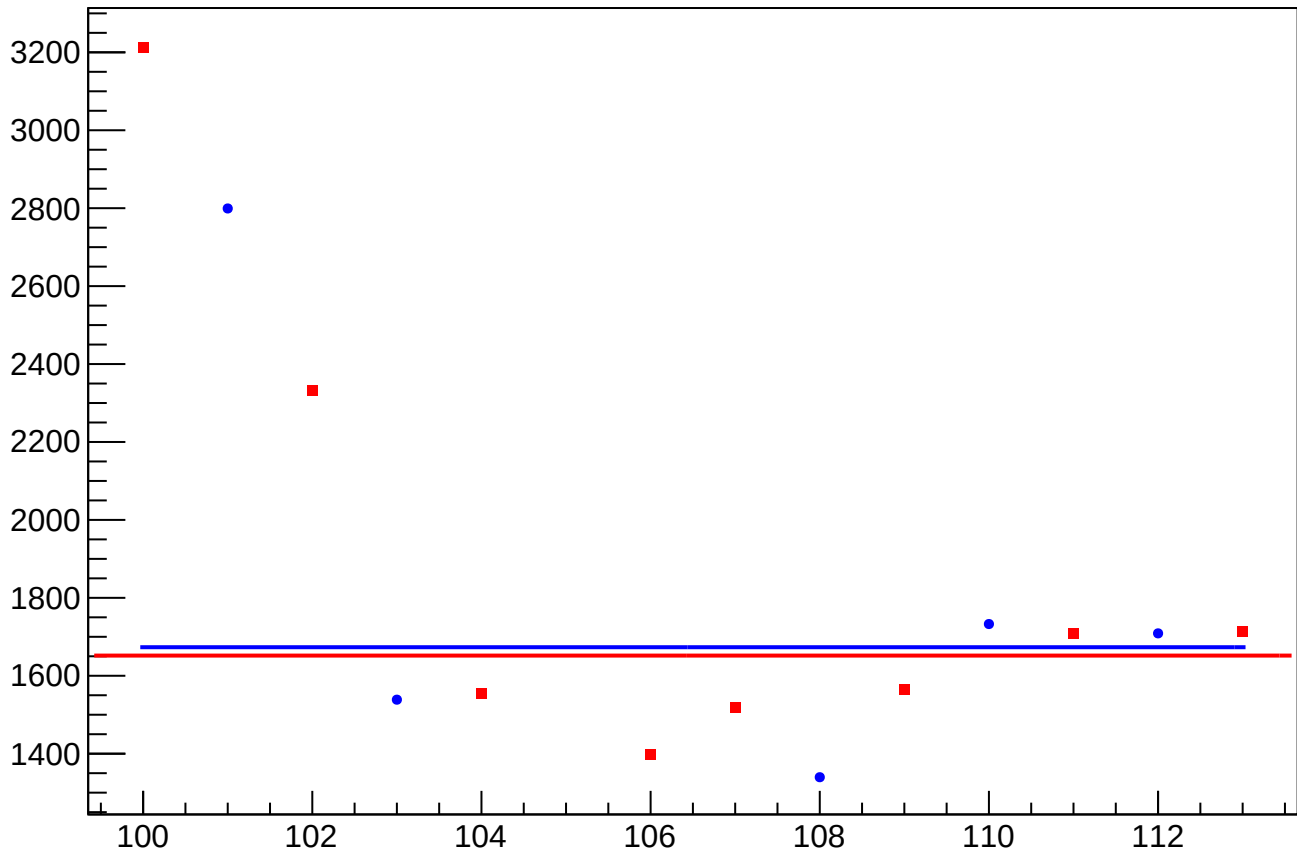
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.924 $\pm$ 726.098  $\chi^2$ /NDF: 22.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_at2\_avg\_rms vs Slug



Right In: 1673.272 $\pm$ 0.770  $\chi^2$ /NDF: 268148.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1651.800 $\pm$ 0.688  $\chi^2$ /NDF: 135467.3/7

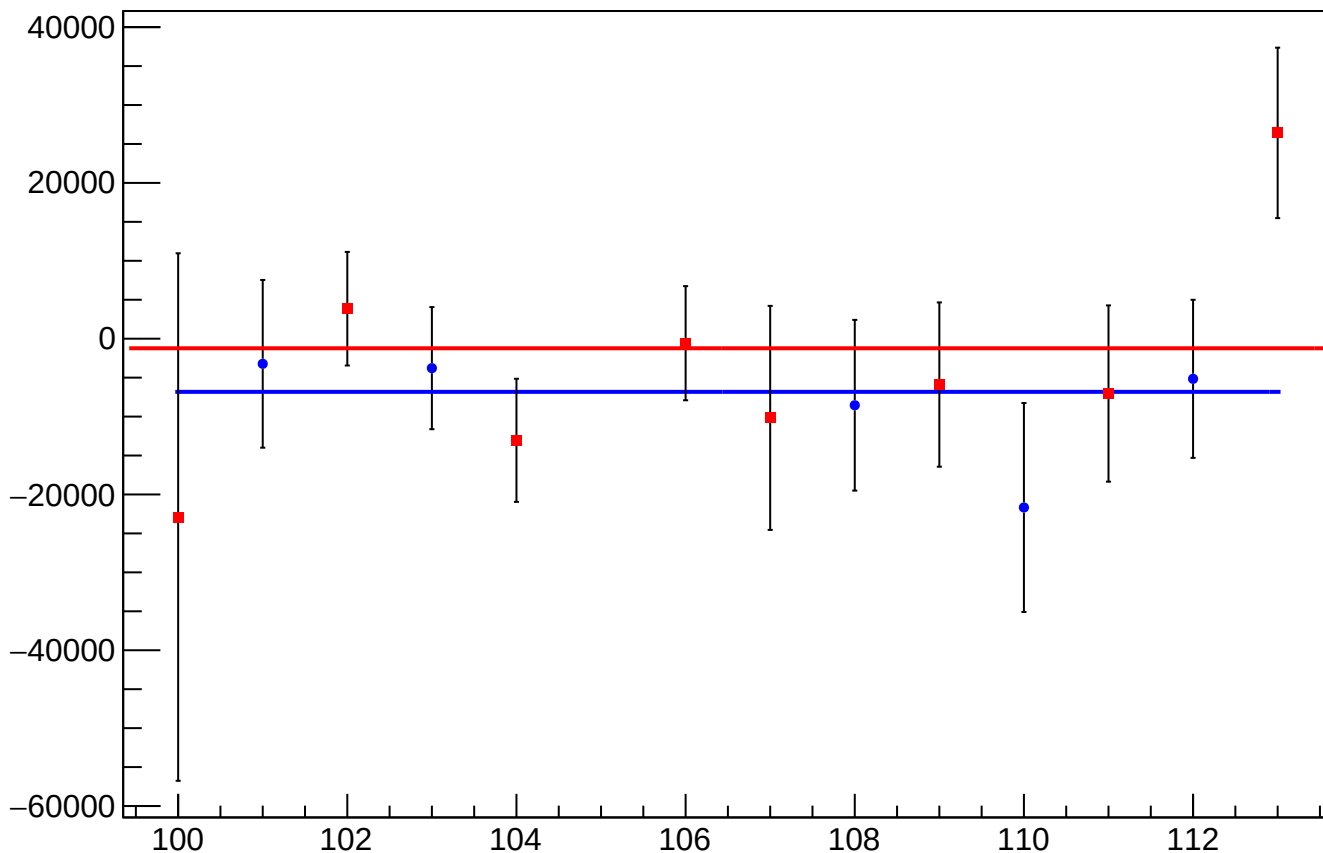
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1661.341 $\pm$ 0.513  $\chi^2$ /NDF: 404048.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -6824.960+/-4541.073  $\chi^2/\text{NDF}$ : 1.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1230.835+/-3443.963  $\chi^2/\text{NDF}$ : 10.4/7

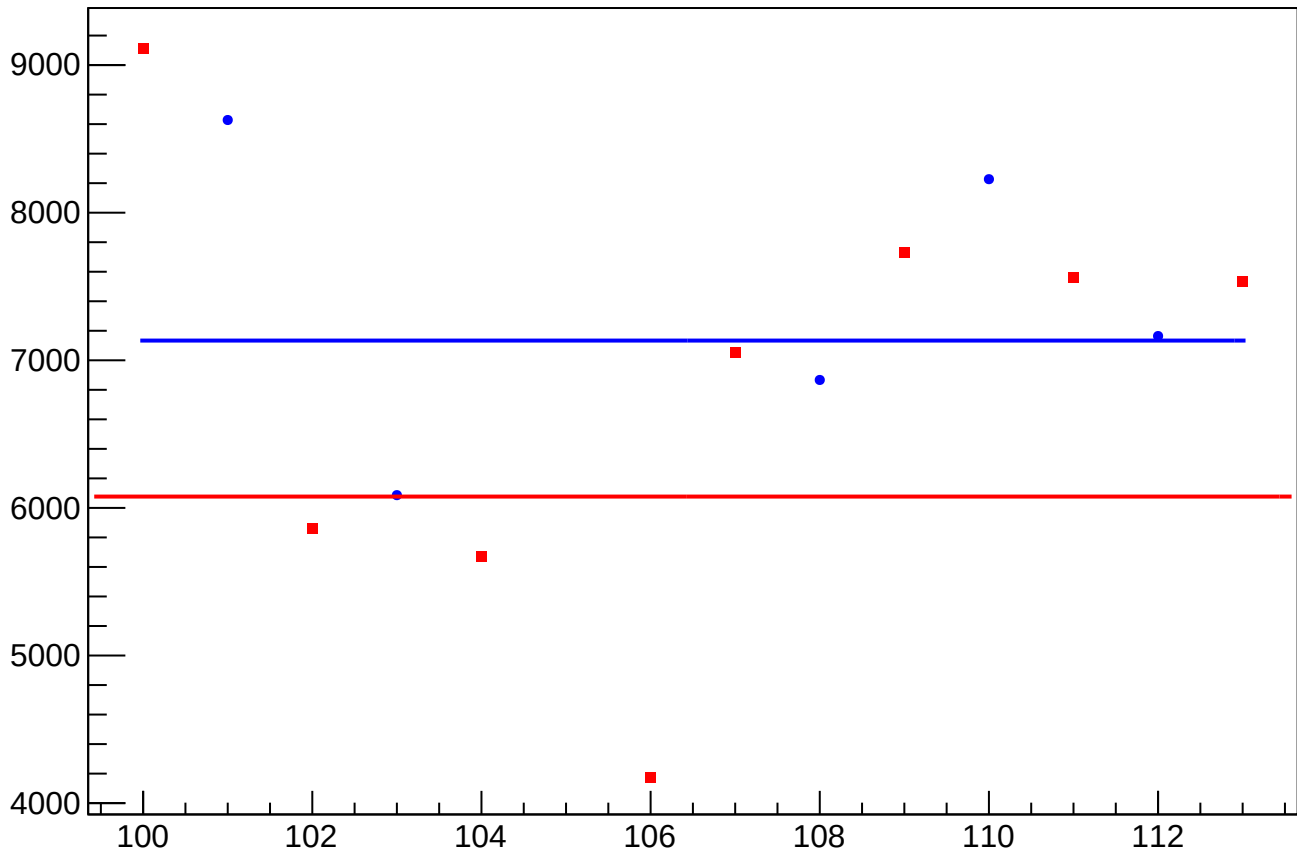
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3273.528+/-2744.063  $\chi^2/\text{NDF}$ : 12.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 7133.657 $\pm$ 3.211  $\chi^2$ /NDF: 88699.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6076.832 $\pm$ 2.435  $\chi^2$ /NDF: 286001.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

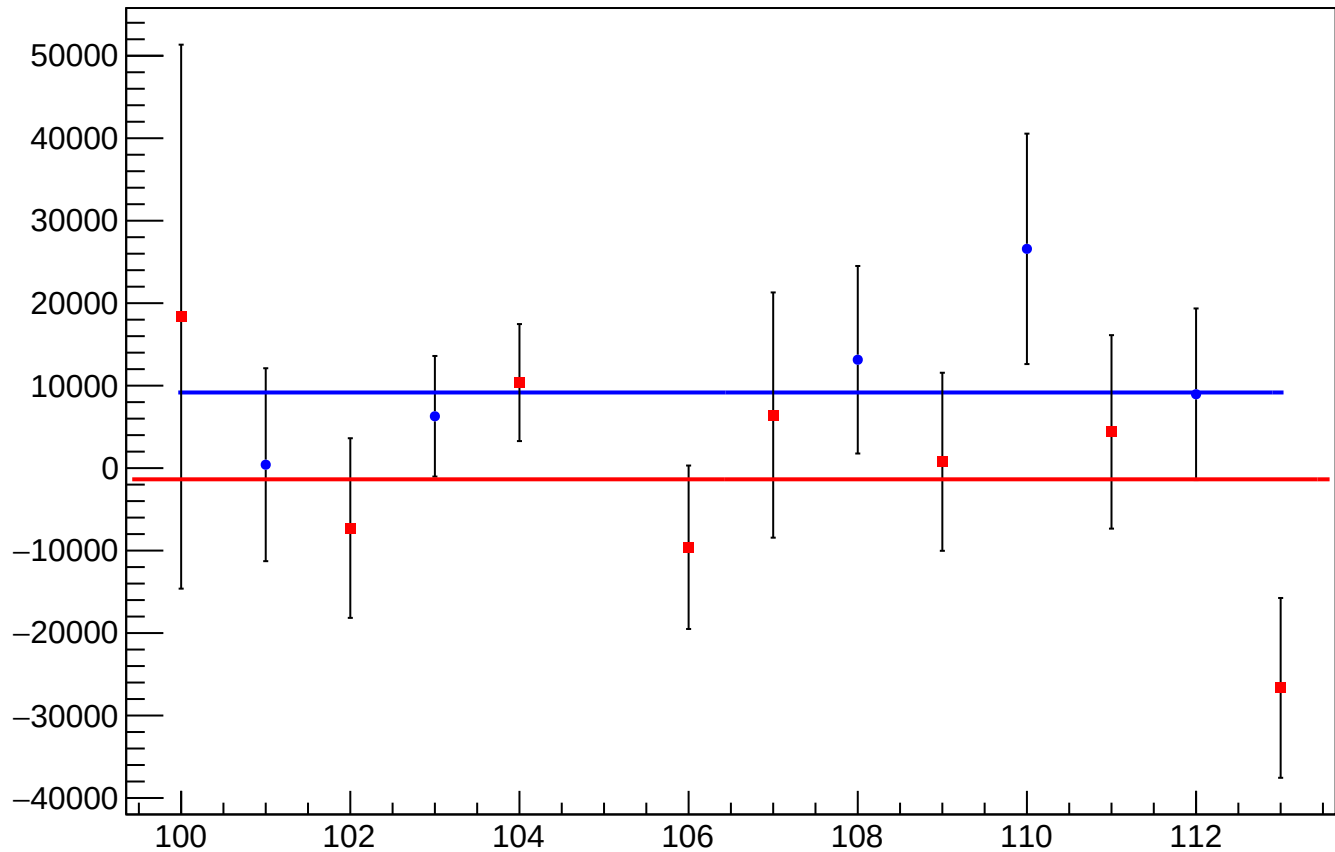
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6462.731 $\pm$ 1.940  $\chi^2$ /NDF: 443469.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_at2\_avg\_mean vs Slug



Right In: 9171.069+/-4558.684  $\chi^2/\text{NDF}$ : 2.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1358.363+/-3829.515  $\chi^2/\text{NDF}$ : 10.0/7

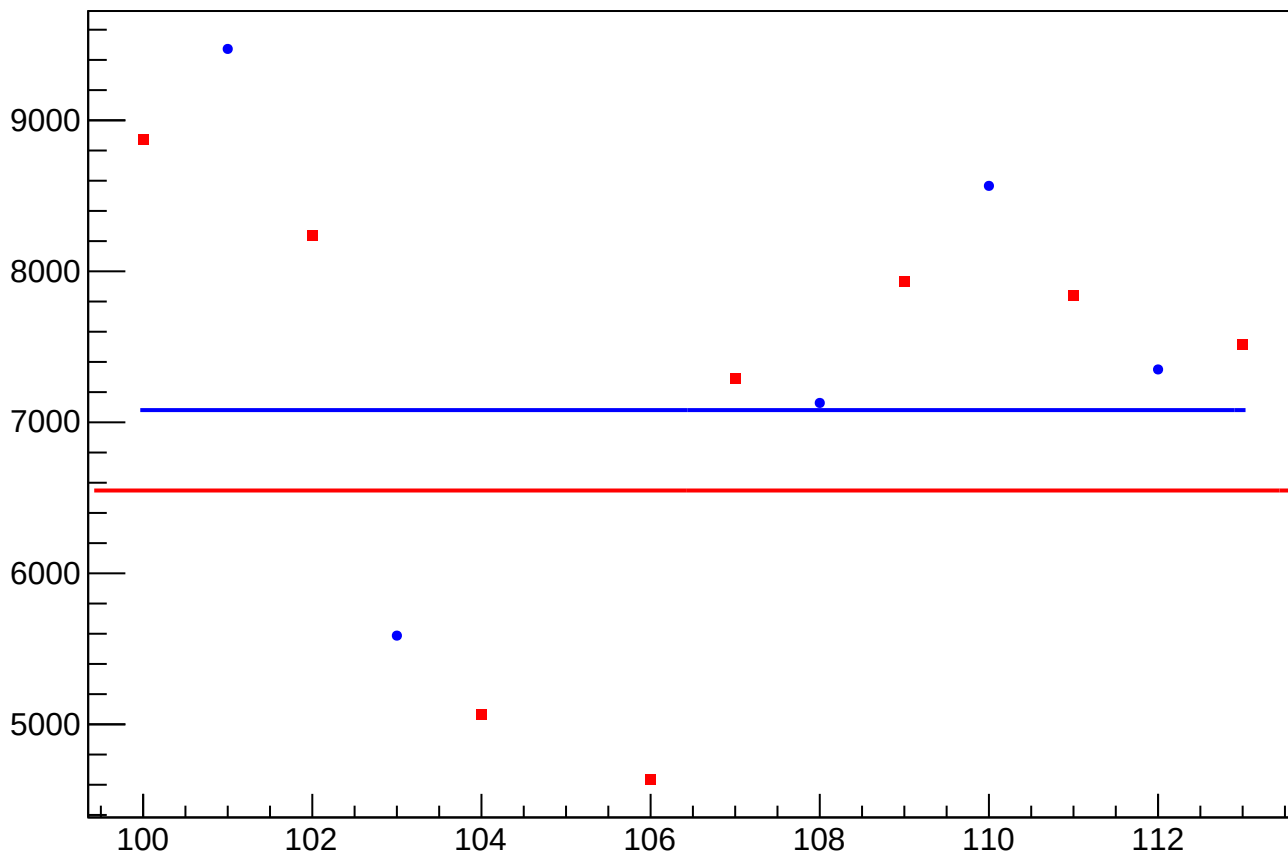
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2997.916+/-2932.208  $\chi^2/\text{NDF}$ : 15.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_rms vs Slug



Right In: 7081.009+/-3.223  $\chi^2/\text{NDF}$ : 191076.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6548.556+/-2.707  $\chi^2/\text{NDF}$ : 298161.7/7

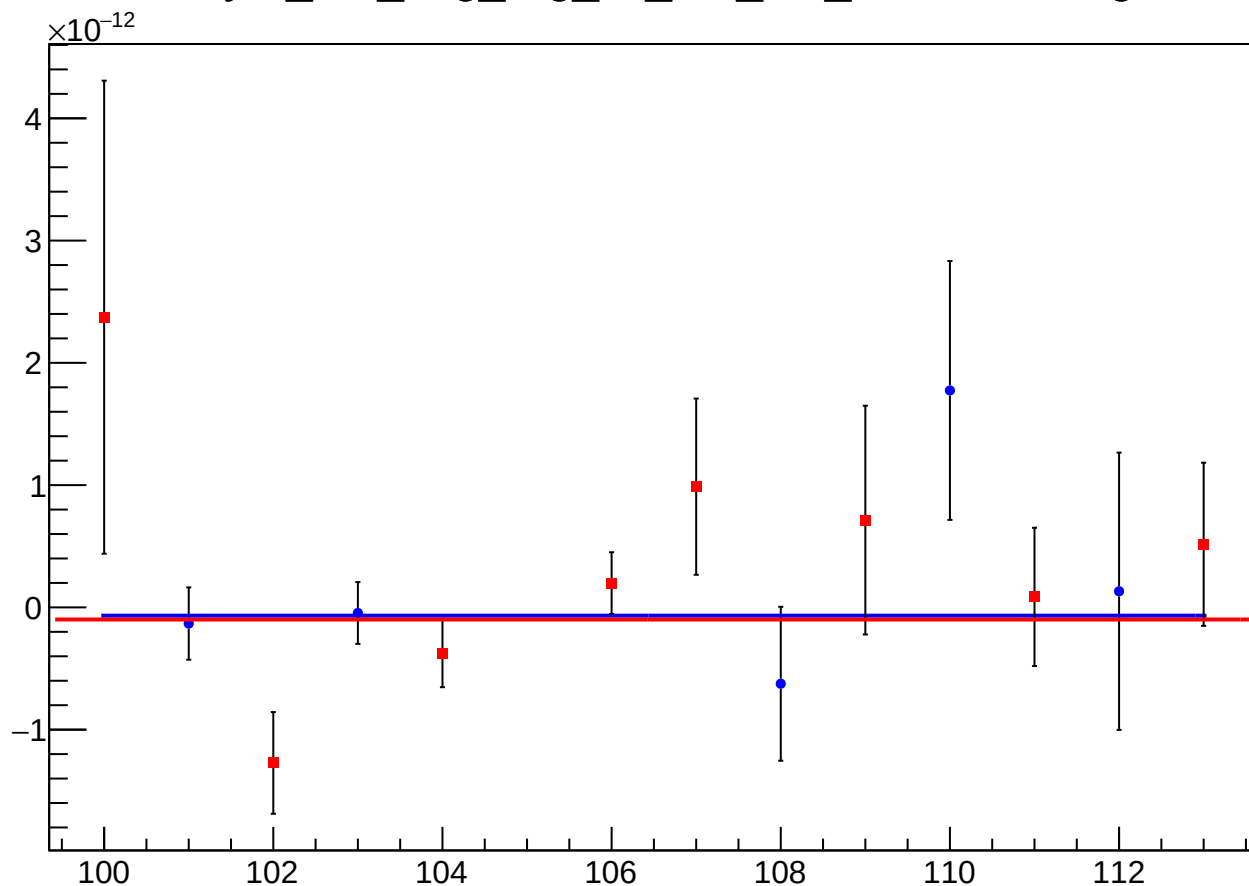
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6768.814+/-2.073  $\chi^2/\text{NDF}$ : 505236.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.9/7

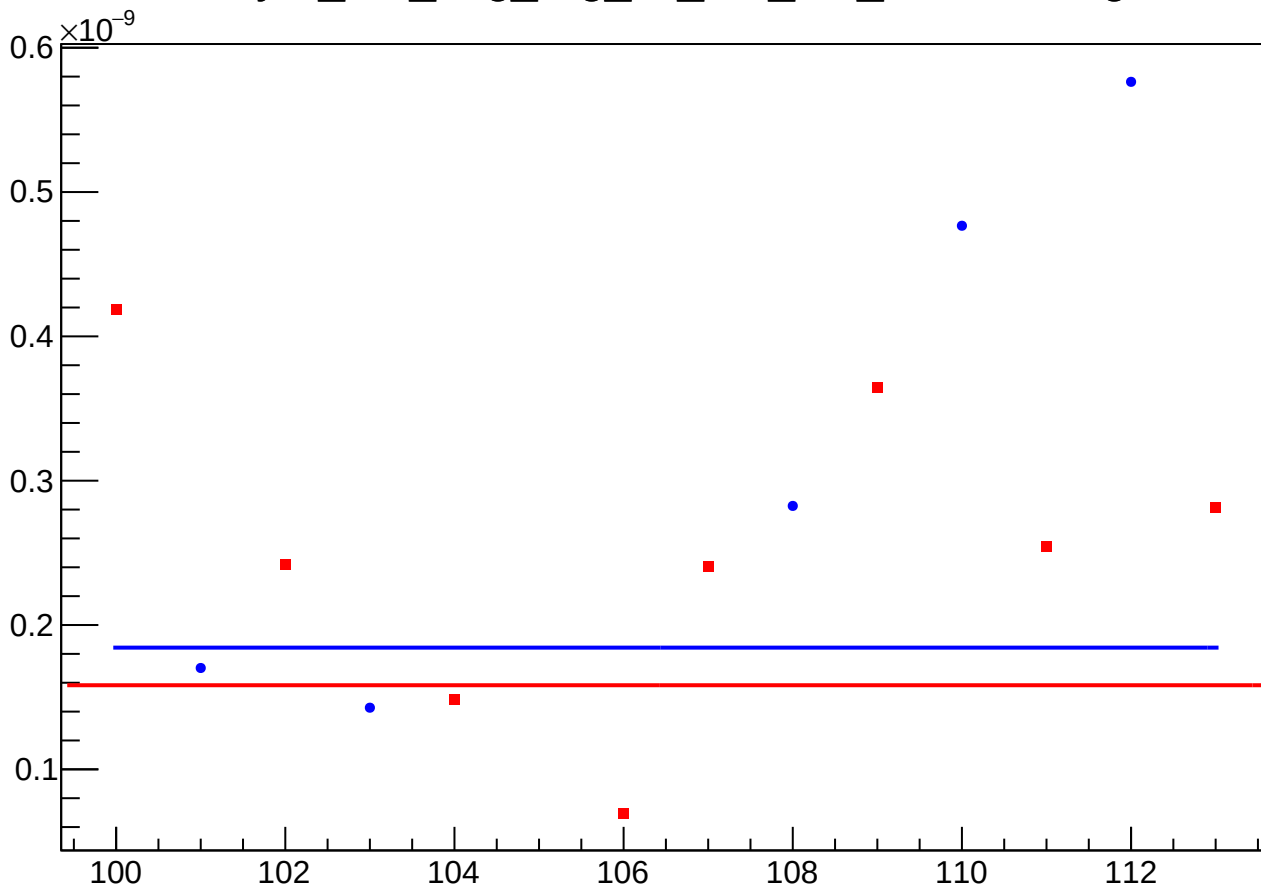
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 499073.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 615993.6/7

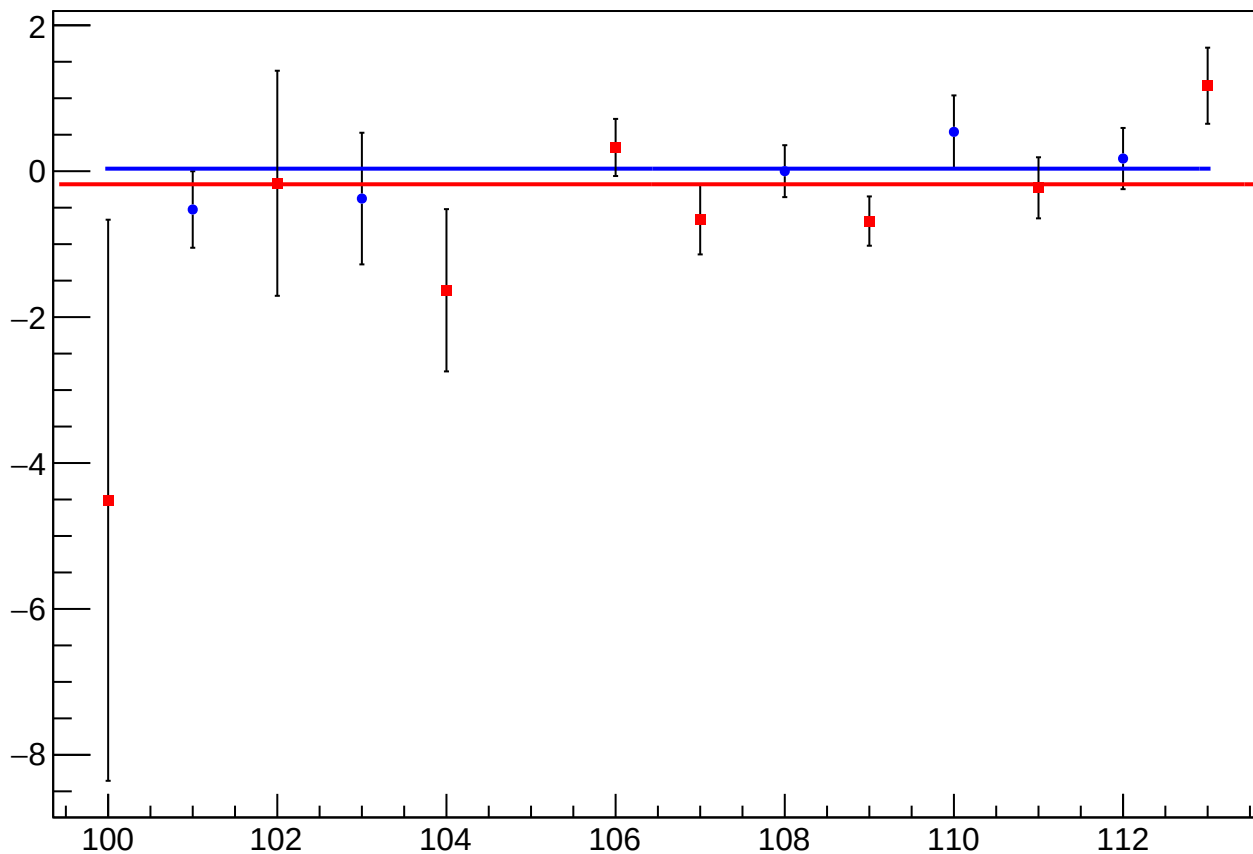
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1139664.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.035 $\pm$ 0.211  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.179 $\pm$ 0.182  $\chi^2$ /NDF: 14.6/7

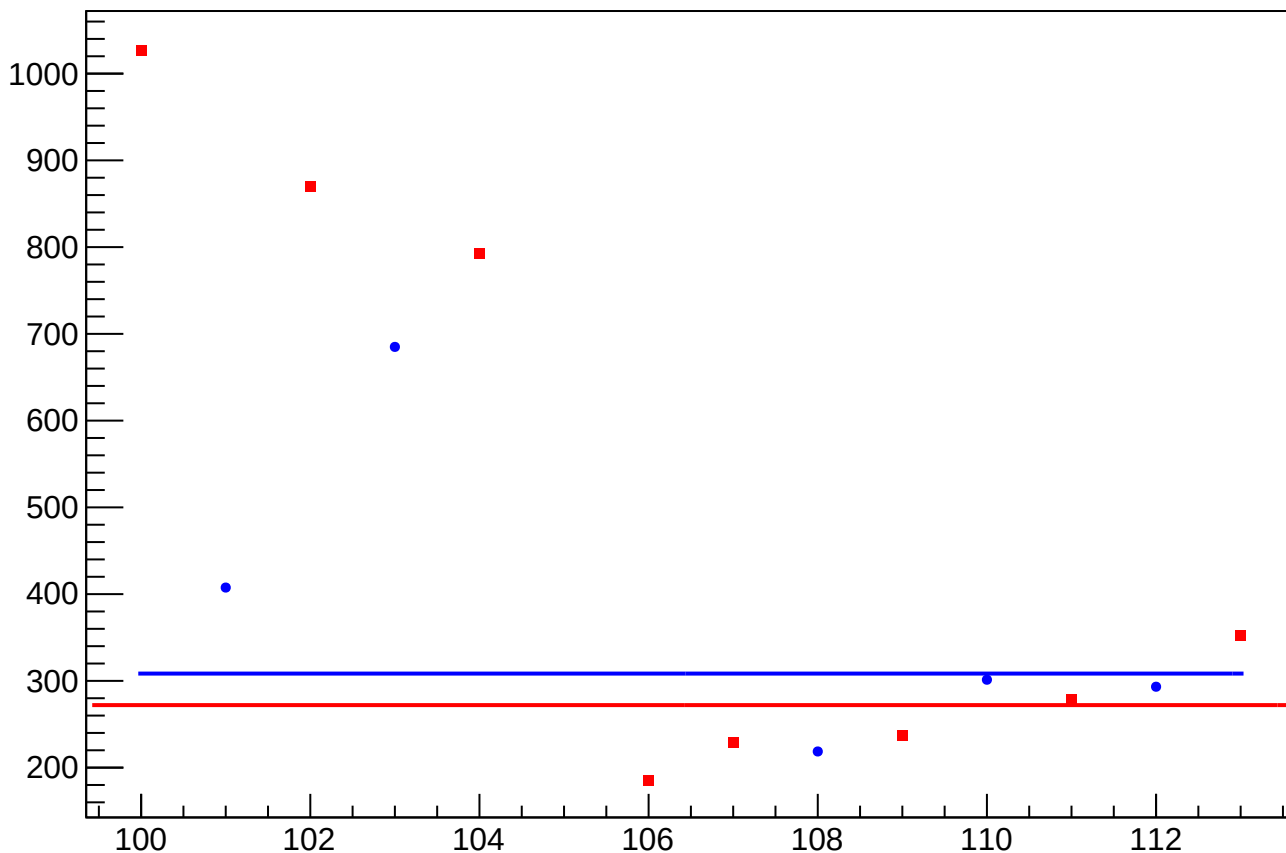
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.088 $\pm$ 0.138  $\chi^2$ /NDF: 17.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 308.412 $\pm$ 0.149  $\chi^2$ /NDF: 550255.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 272.074 $\pm$ 0.128  $\chi^2$ /NDF: 999516.8/7

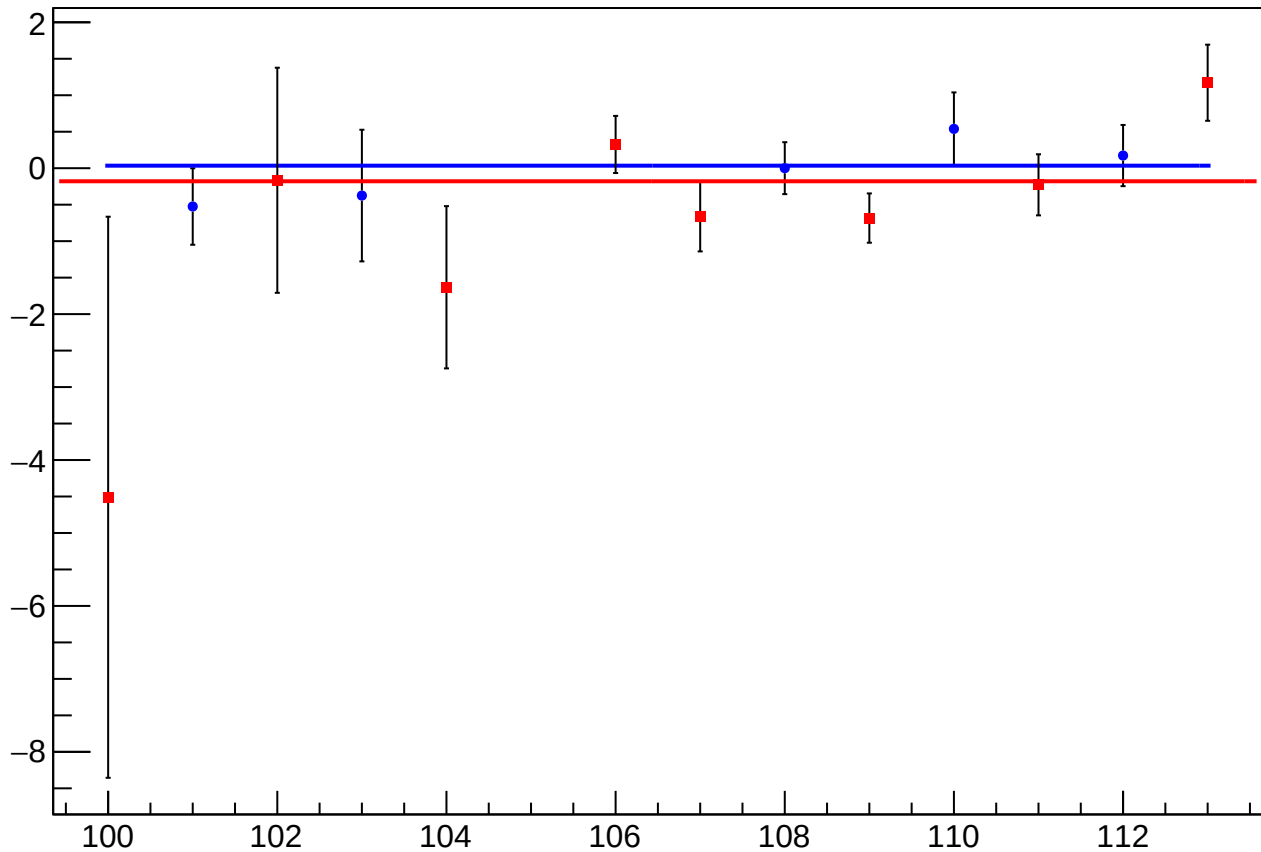
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 287.533 $\pm$ 0.097  $\chi^2$ /NDF: 1583833.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.035 $\pm$ 0.211  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.179 $\pm$ 0.182  $\chi^2$ /NDF: 14.6/7

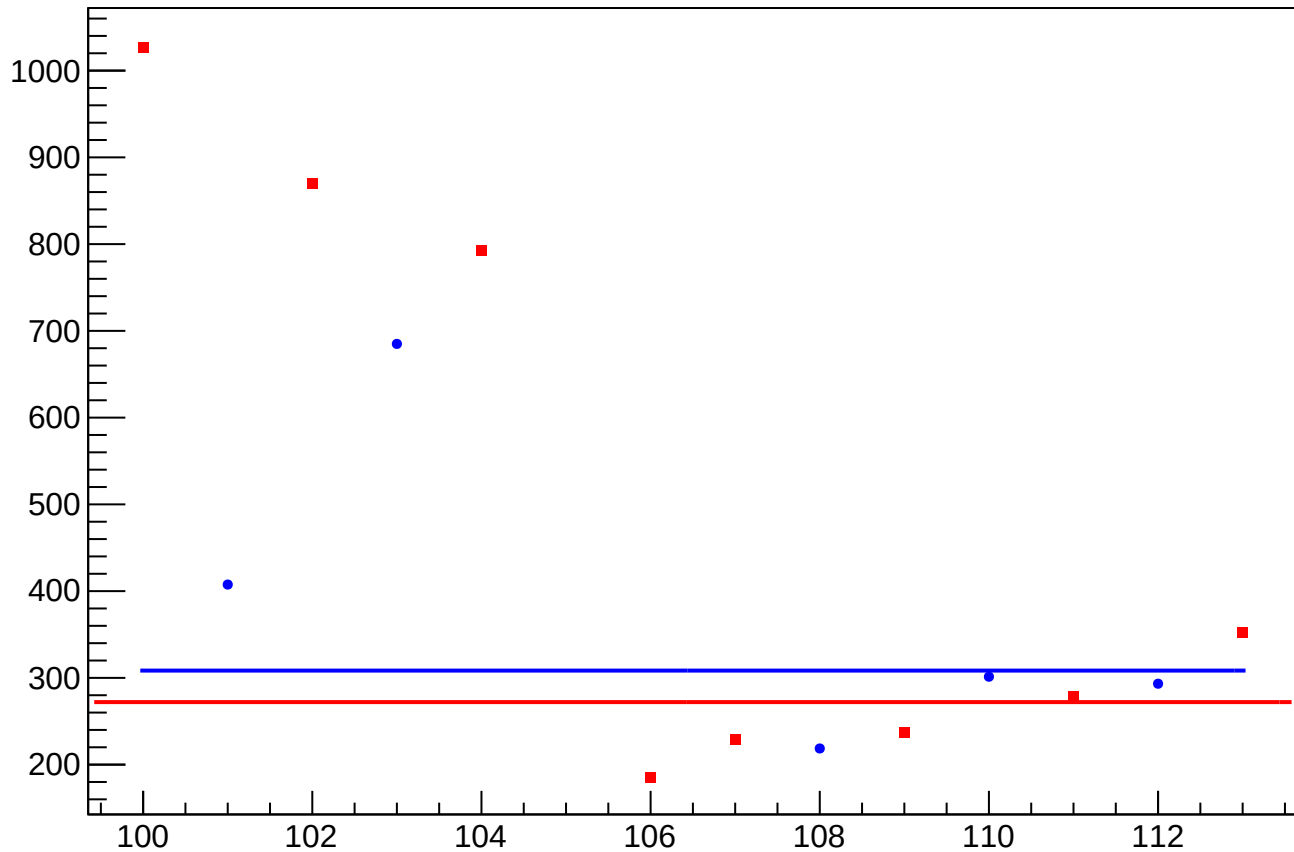
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.088 $\pm$ 0.138  $\chi^2$ /NDF: 17.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 308.412+/-0.149  $\chi^2/\text{NDF}$ : 550255.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 272.074+/-0.128  $\chi^2/\text{NDF}$ : 999516.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

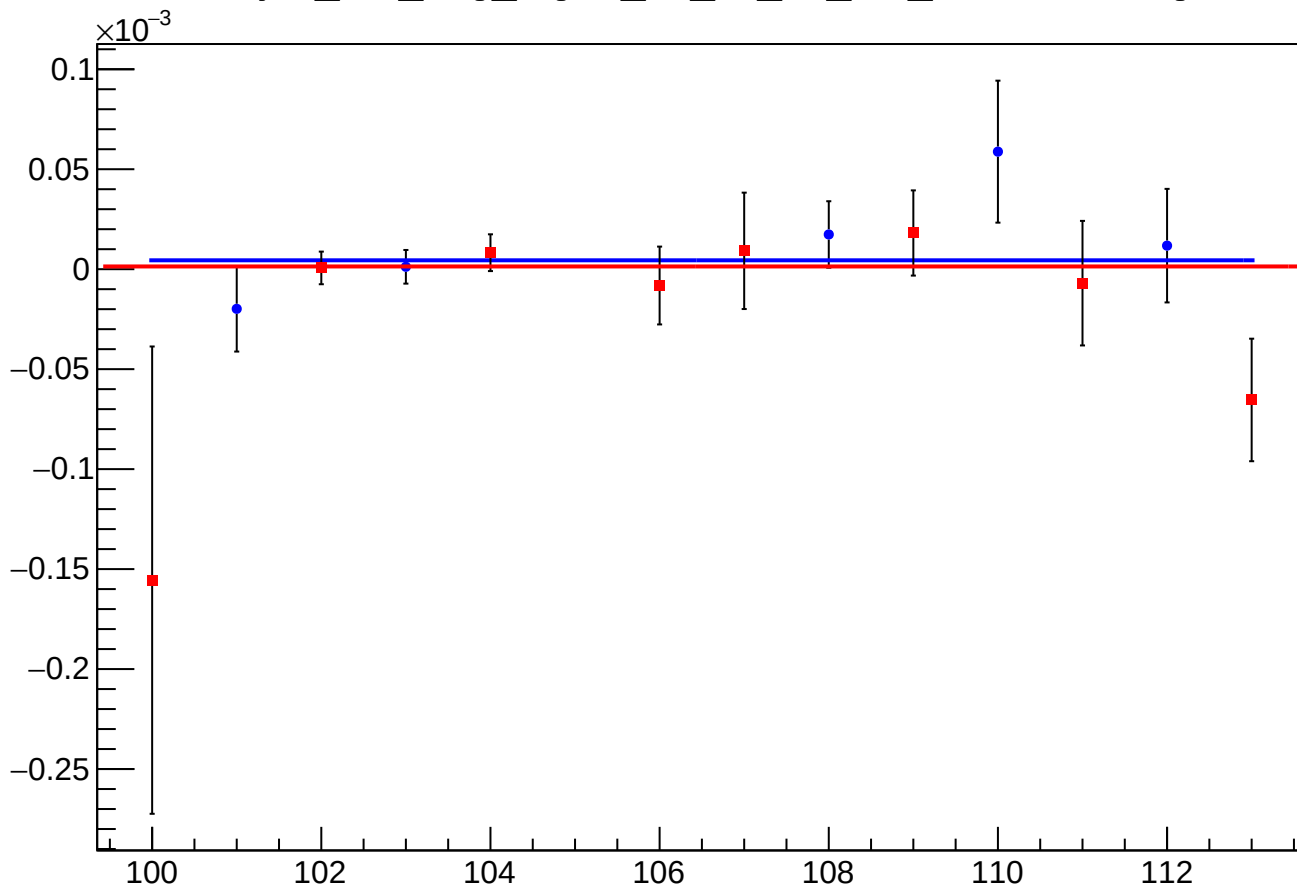
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 287.533+/-0.097  $\chi^2/\text{NDF}$ : 1583833.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_at2\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.1/7

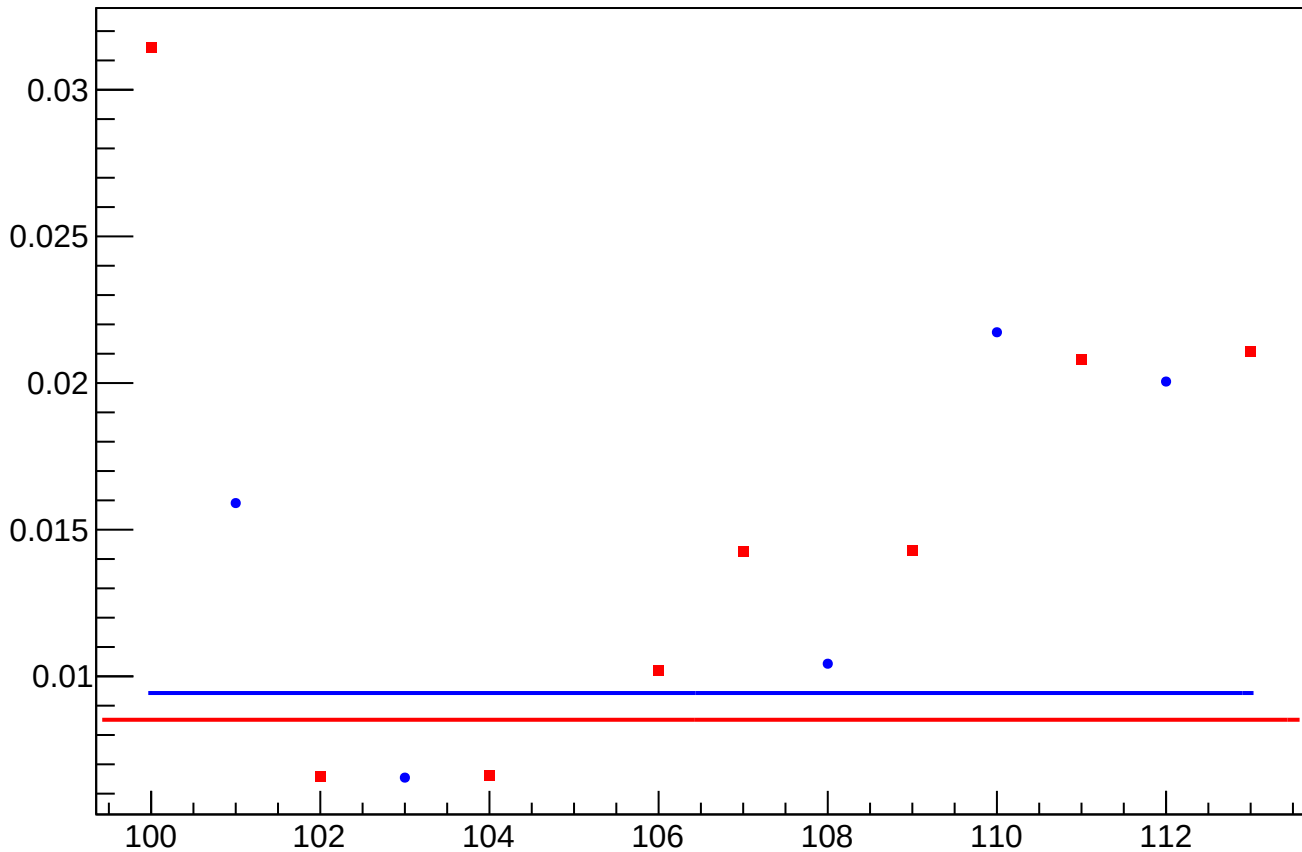
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 945719.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 1163054.8/7

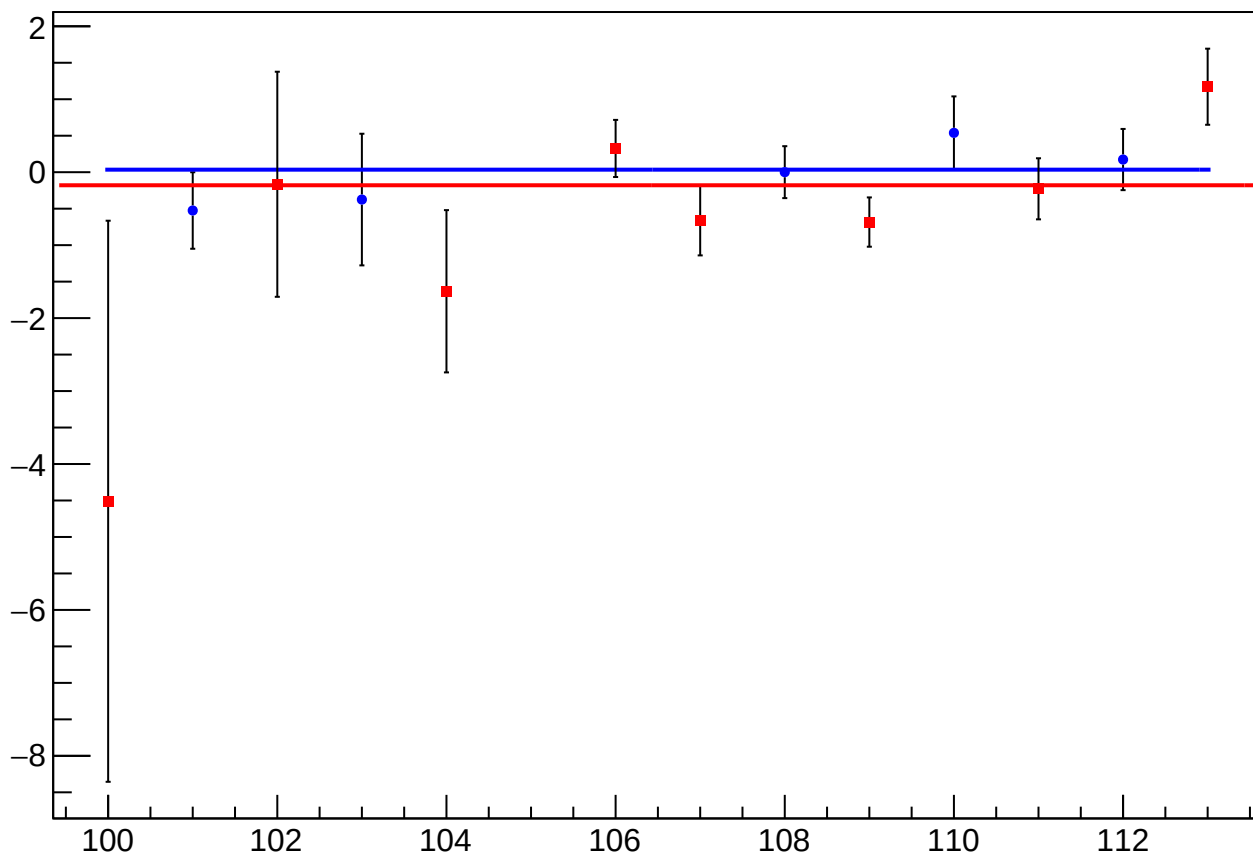
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 2131221.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.035 $\pm$ 0.211  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.179 $\pm$ 0.182  $\chi^2$ /NDF: 14.6/7

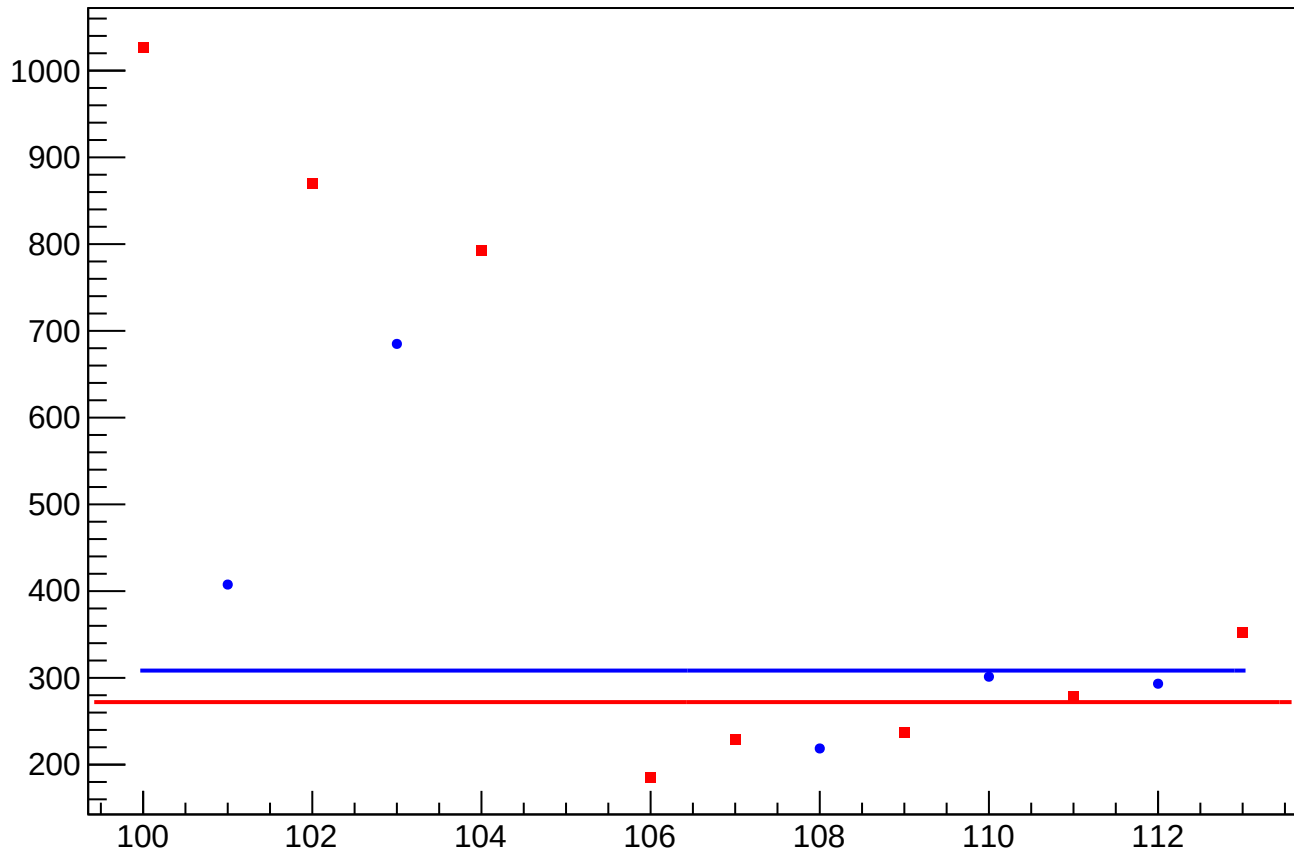
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.088 $\pm$ 0.138  $\chi^2$ /NDF: 17.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 308.417+/-0.149  $\chi^2/\text{NDF}$ : 550231.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 272.075+/-0.128  $\chi^2/\text{NDF}$ : 999510.5/7

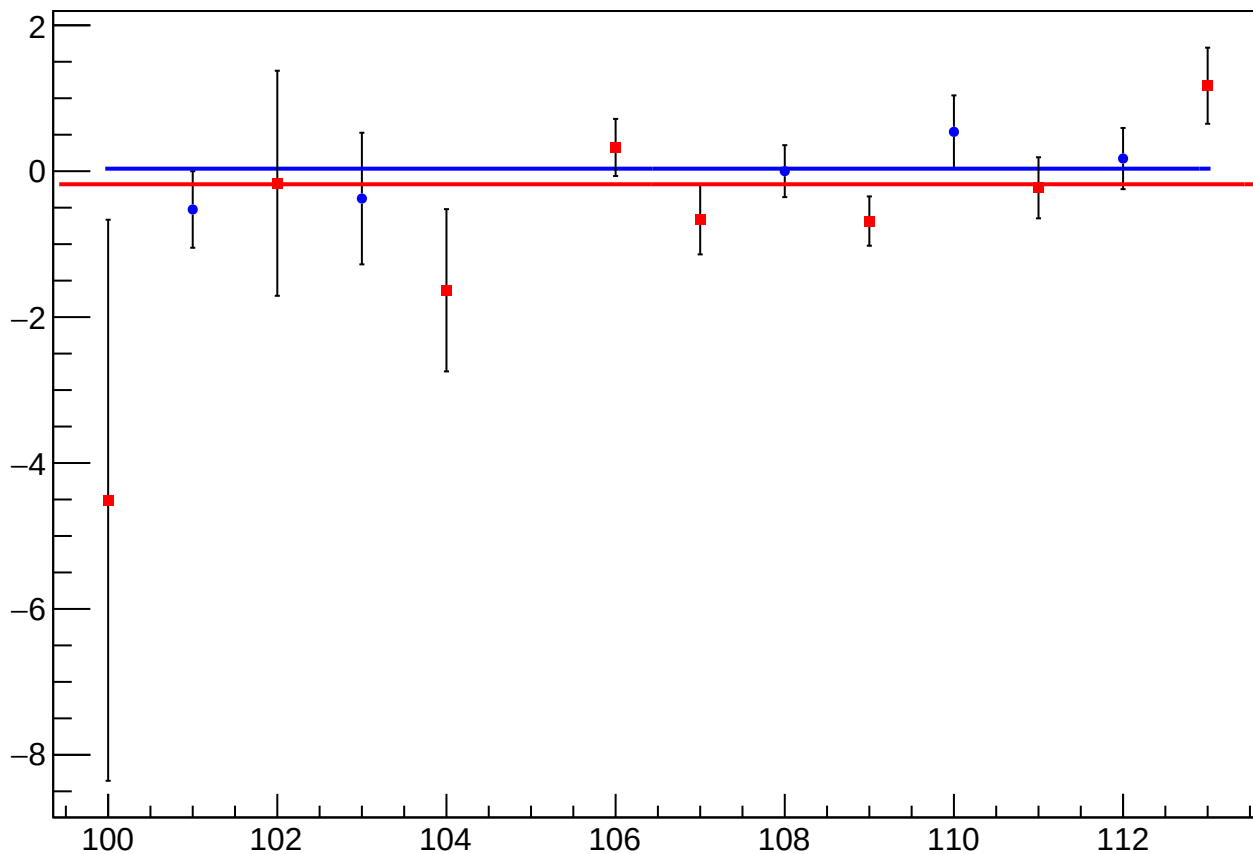
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 287.535+/-0.097  $\chi^2/\text{NDF}$ : 1583810.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.035 $\pm$ 0.211  $\chi^2/\text{NDF}$ : 2.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.179 $\pm$ 0.182  $\chi^2/\text{NDF}$ : 14.6/7

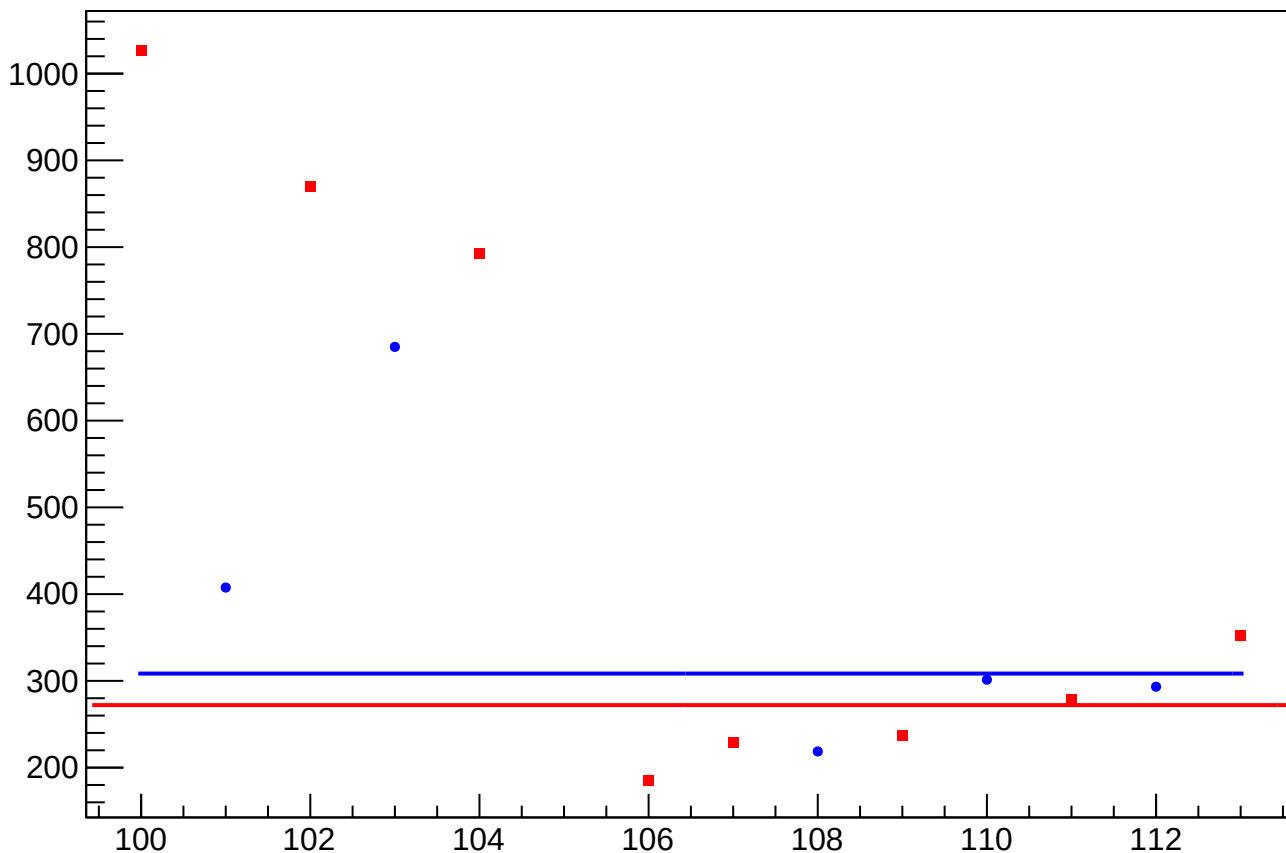
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.088 $\pm$ 0.138  $\chi^2/\text{NDF}$ : 17.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 308.417+/-0.149  $\chi^2/\text{NDF}$ : 550231.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 272.075+/-0.128  $\chi^2/\text{NDF}$ : 999510.5/7

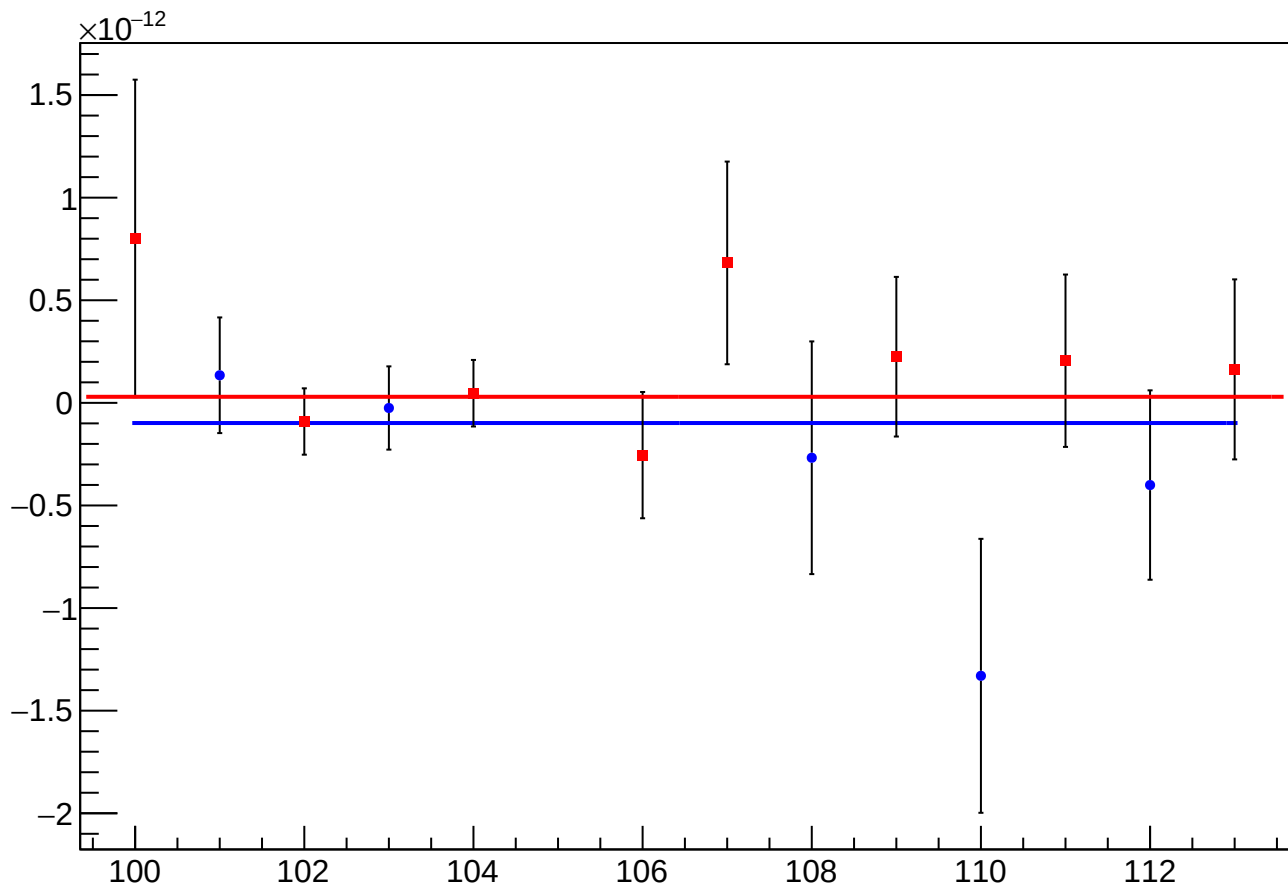
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 287.535+/-0.097  $\chi^2/\text{NDF}$ : 1583810.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4.7/7

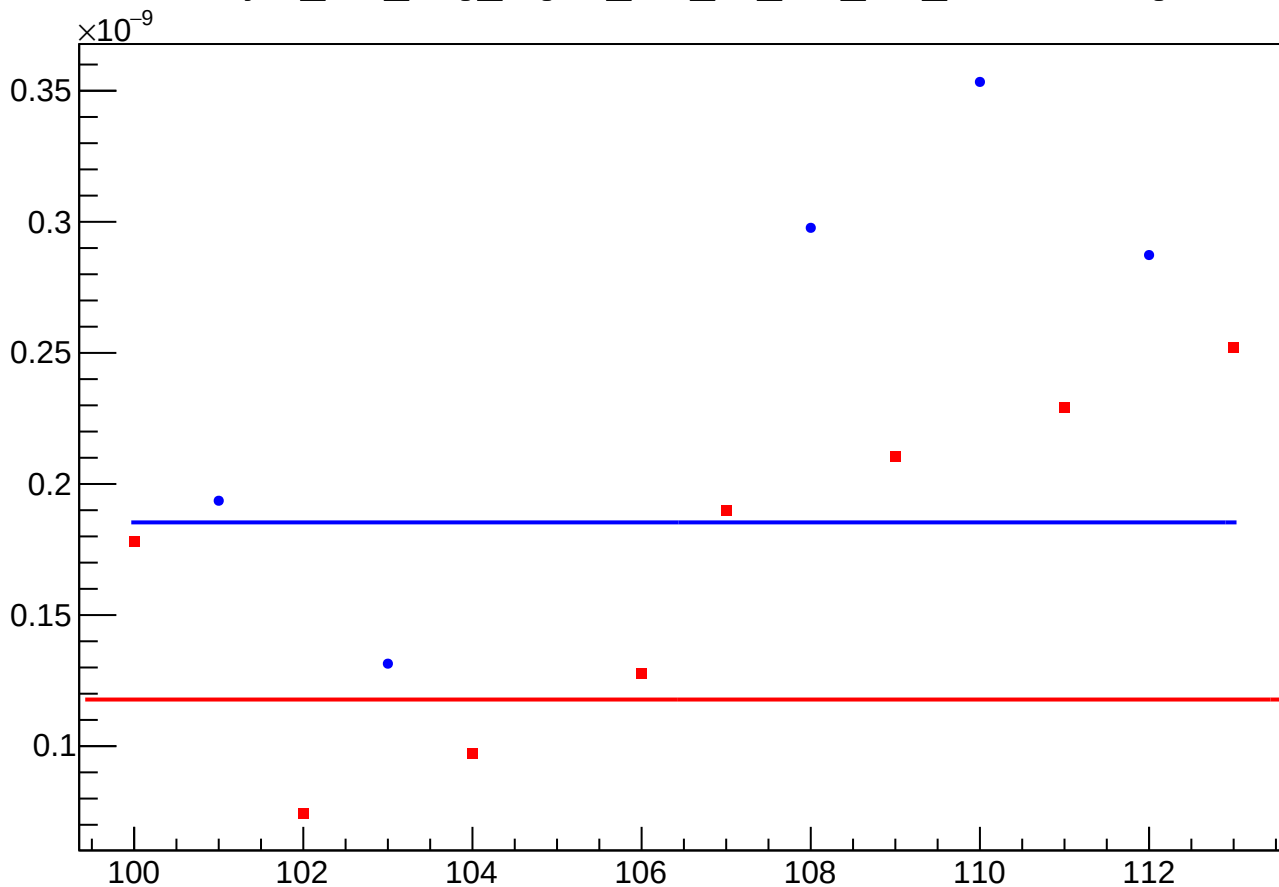
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 10.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 445786.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 674393.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

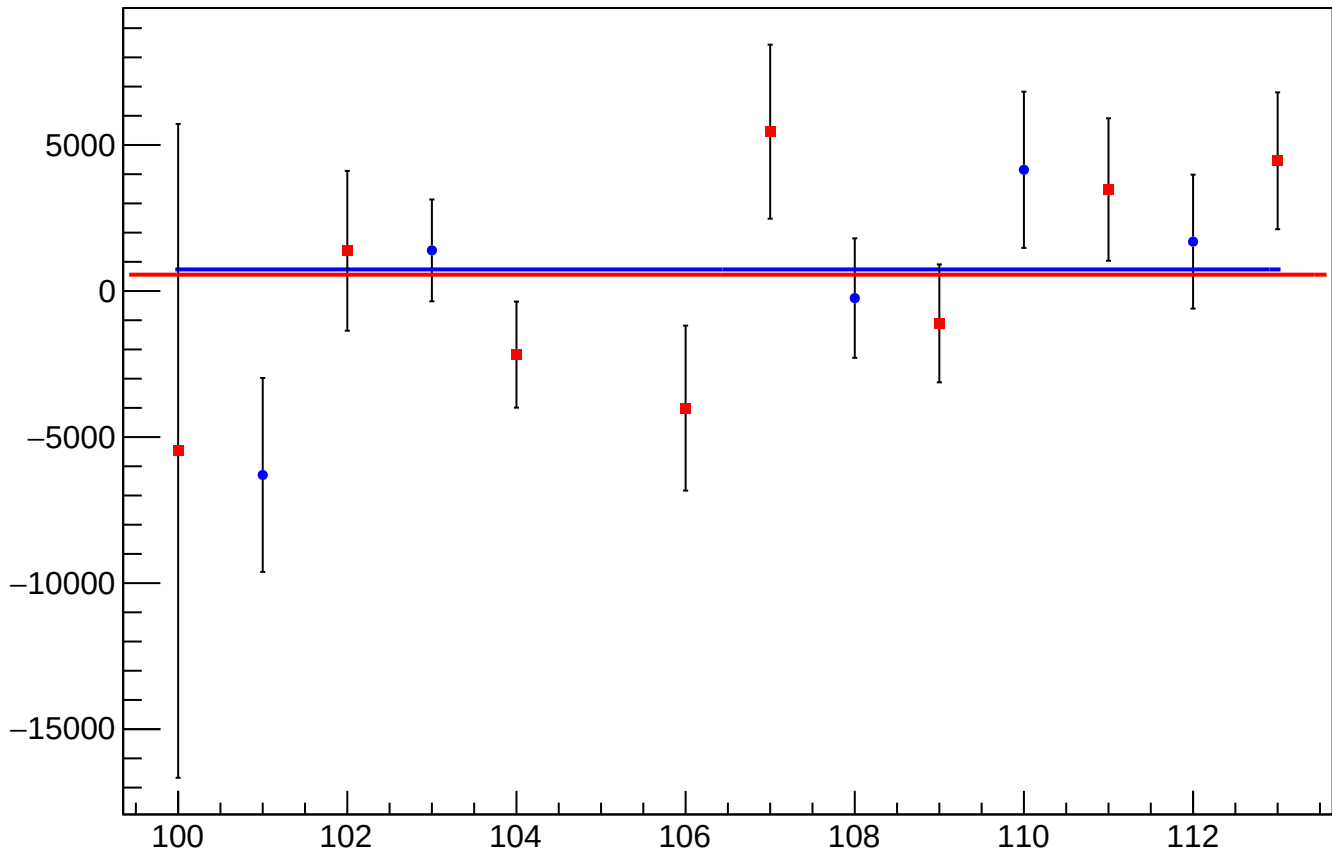
+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 1420704.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_at2\_dd\_mean vs Slug



Right In: 739.445 $\pm$ 1005.659  $\chi^2$ /NDF: 6.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 560.685 $\pm$ 884.314  $\chi^2$ /NDF: 12.9/7

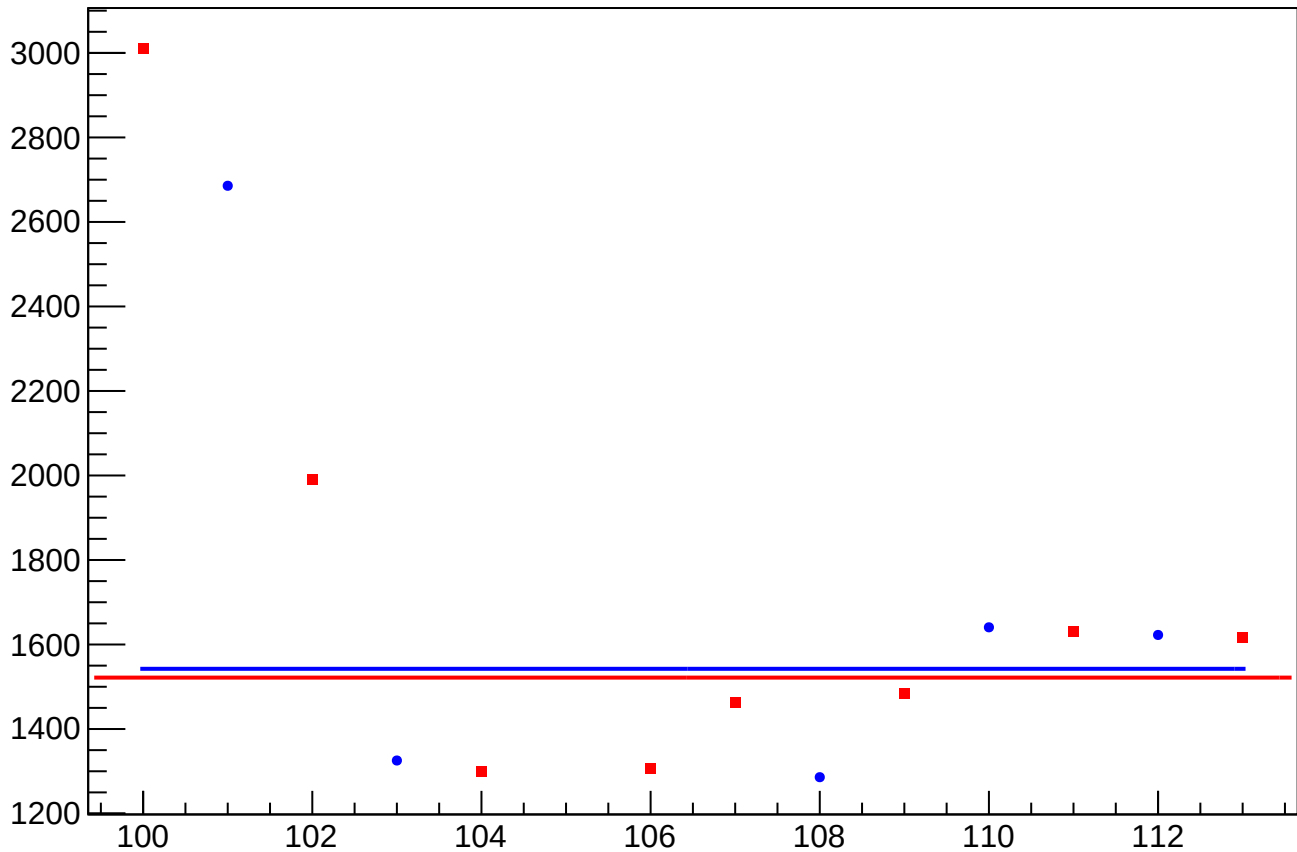
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 638.635 $\pm$ 664.084  $\chi^2$ /NDF: 19.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_dd\_rms vs Slug



Right In: 1542.484 $\pm$ 0.711  $\chi^2$ /NDF: 304716.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1521.666 $\pm$ 0.625  $\chi^2$ /NDF: 143925.7/7

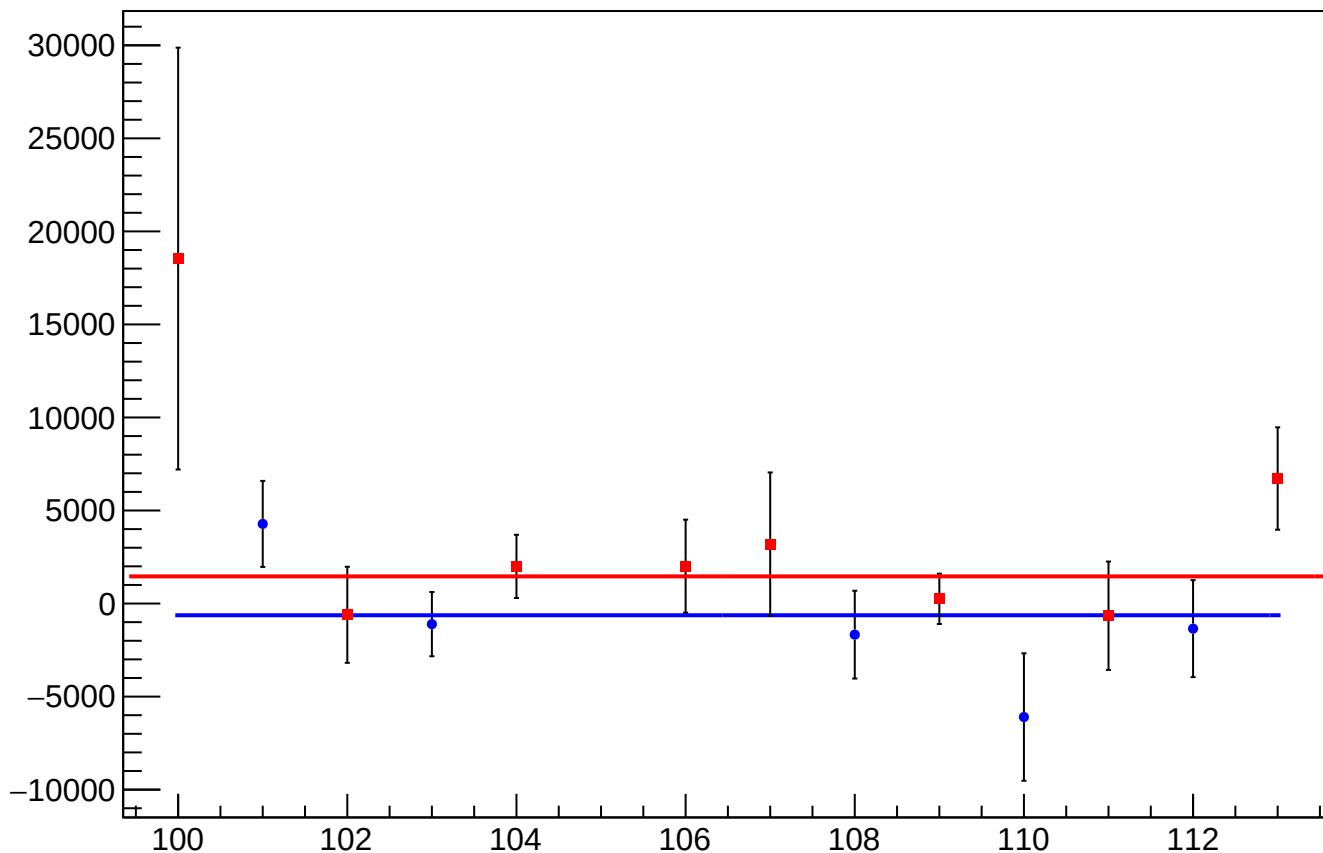
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1530.744 $\pm$ 0.470  $\chi^2$ /NDF: 449125.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_reg\_correction\_mean vs Slug



Right In: -628.545+/-1034.523  $\chi^2/\text{NDF}$ : 7.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1459.769+/-808.665  $\chi^2/\text{NDF}$ : 8.2/7

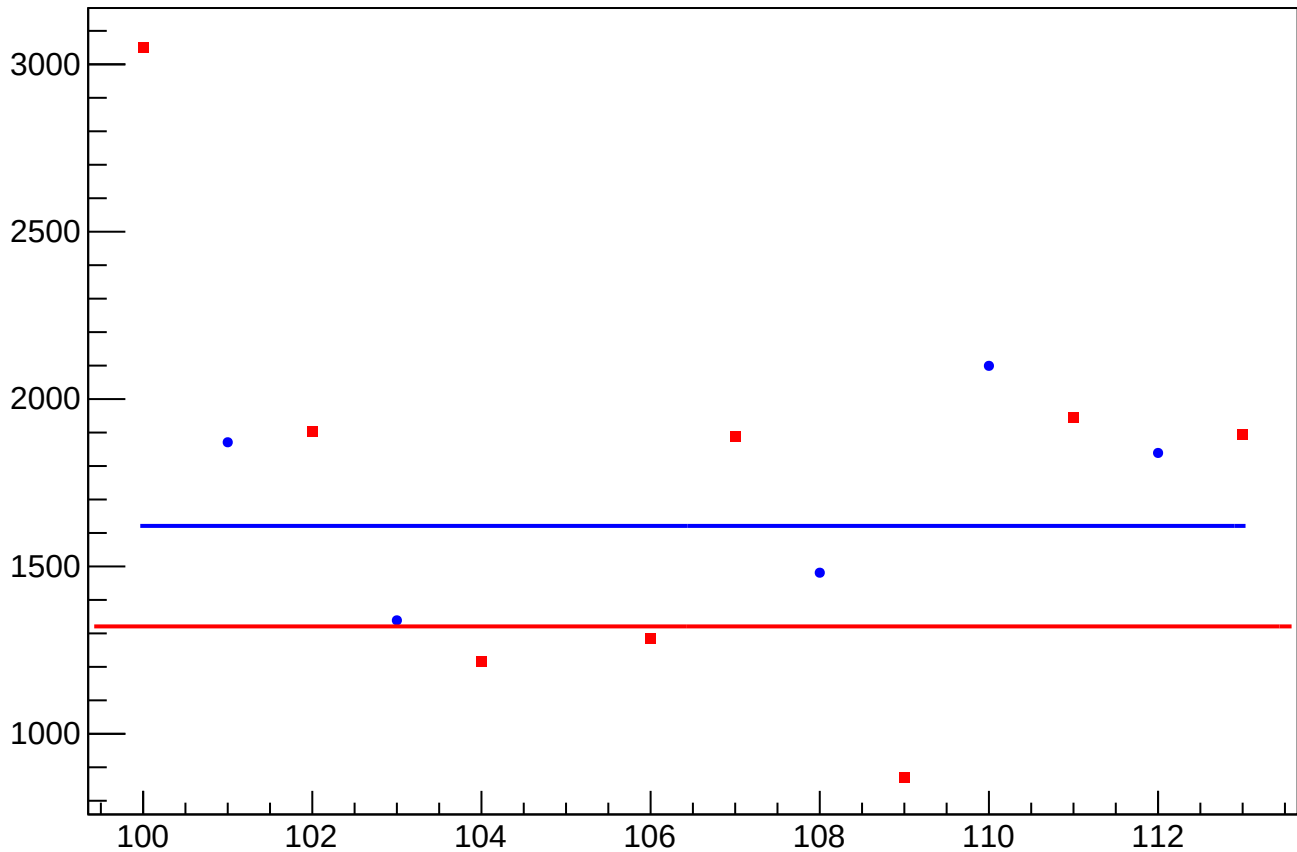
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 667.721+/-637.115  $\chi^2/\text{NDF}$ : 18.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_reg\_correction\_rms vs Slug



Right In: 1621.121+/-0.732  $\chi^2/\text{NDF}$ : 136696.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1320.863+/-0.572  $\chi^2/\text{NDF}$ : 601538.8/7

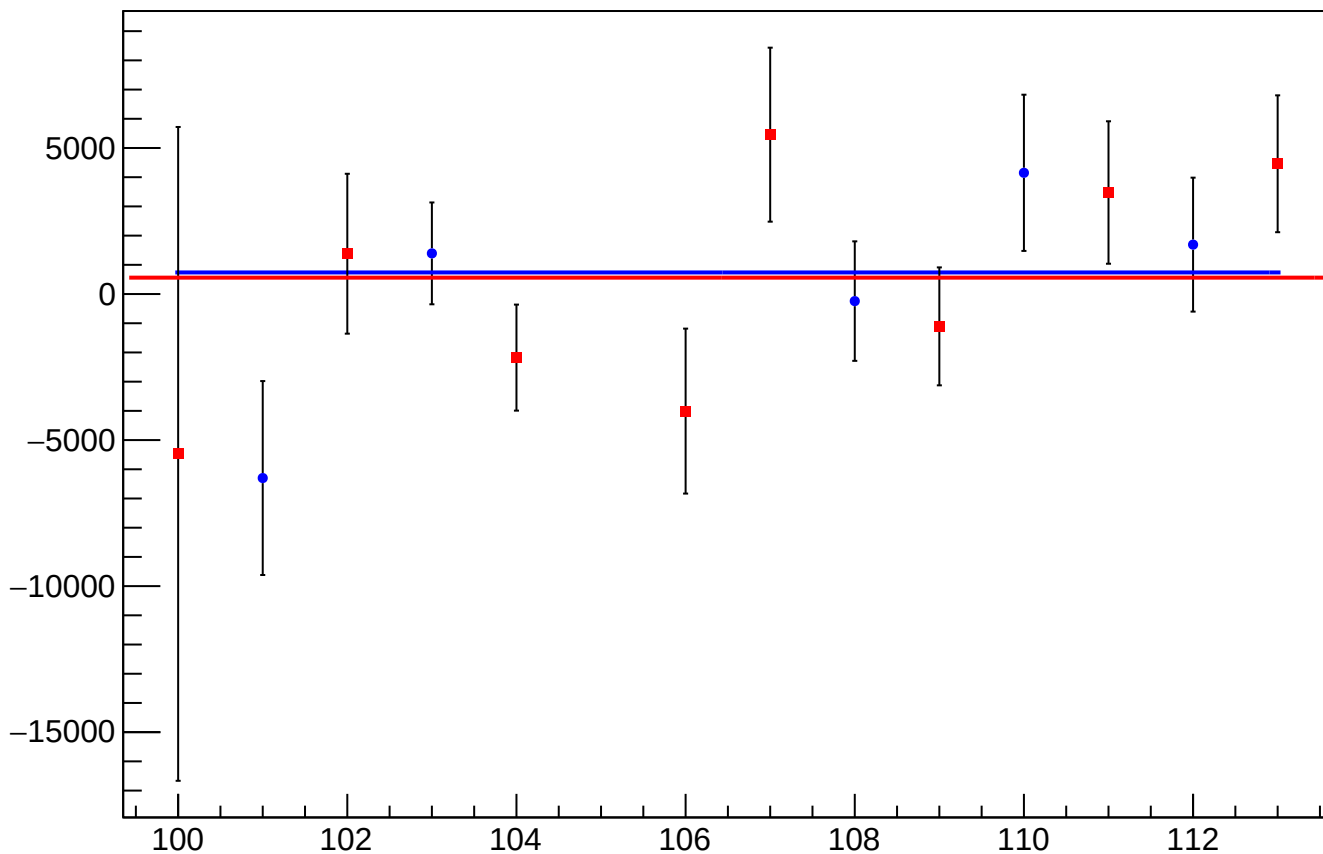
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1434.744+/-0.451  $\chi^2/\text{NDF}$ : 842812.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_at2\_dd\_mean vs Slug



Right In: 739.153+/-1005.659  $\chi^2/\text{NDF}$ : 6.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 561.227+/-884.314  $\chi^2/\text{NDF}$ : 12.9/7

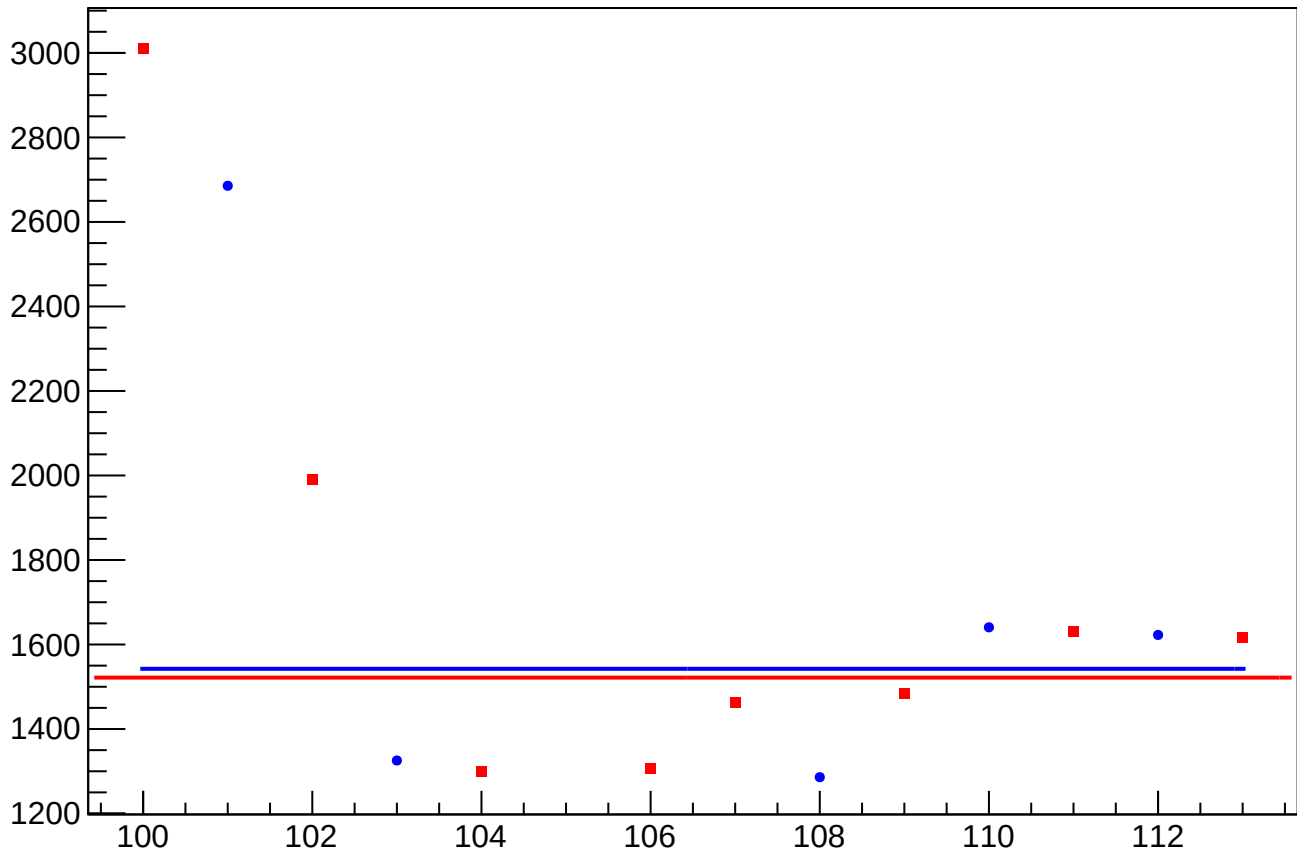
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 638.813+/-664.084  $\chi^2/\text{NDF}$ : 19.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_at2\_dd\_rms vs Slug



Right In: 1542.484 $\pm$ 0.711  $\chi^2$ /NDF: 304716.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1521.666 $\pm$ 0.625  $\chi^2$ /NDF: 143925.5/7

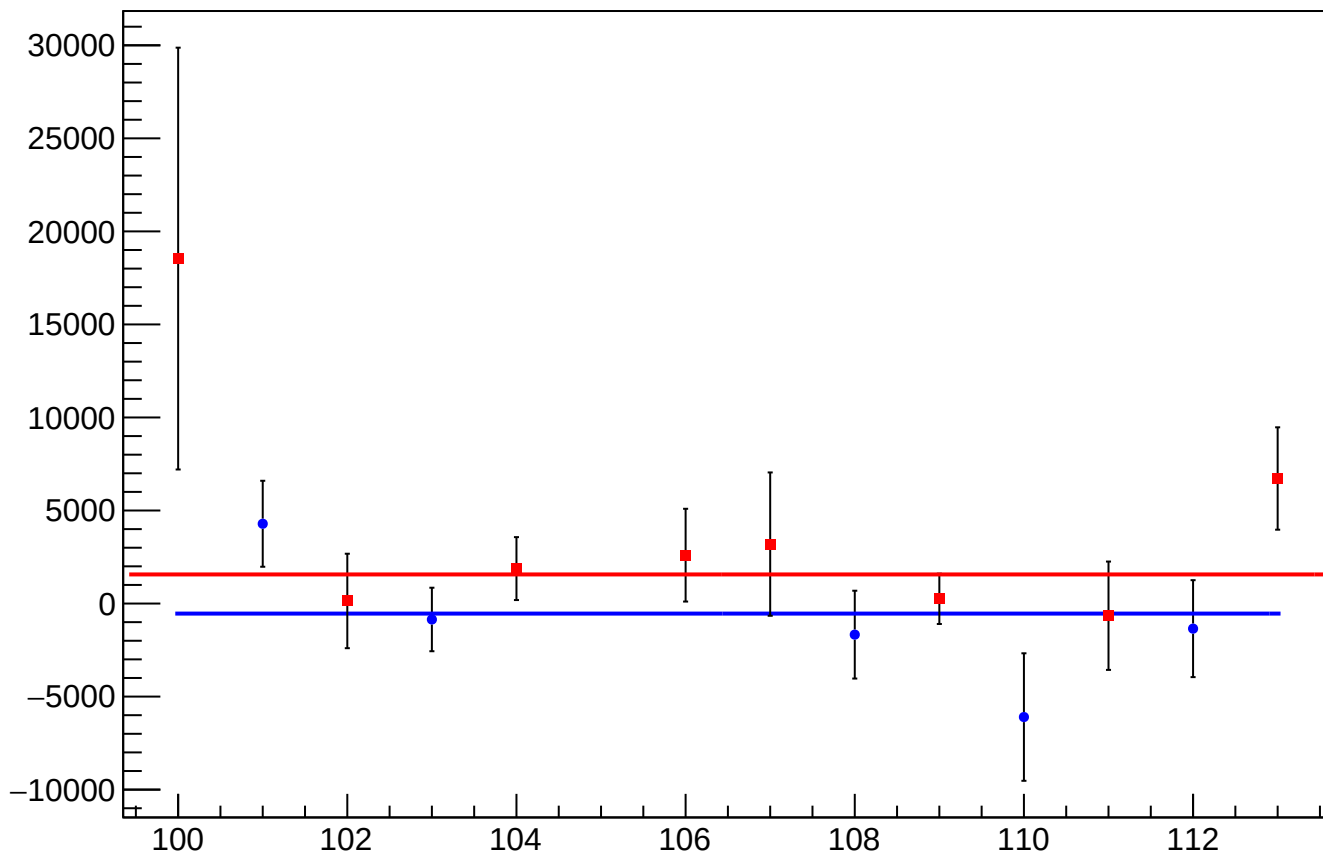
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1530.744 $\pm$ 0.470  $\chi^2$ /NDF: 449125.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_cor\_correction\_mean vs Slug



Right In: -539.752+/-1029.840  $\chi^2/\text{NDF}$ : 7.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1564.392+/-806.316  $\chi^2/\text{NDF}$ : 8.0/7

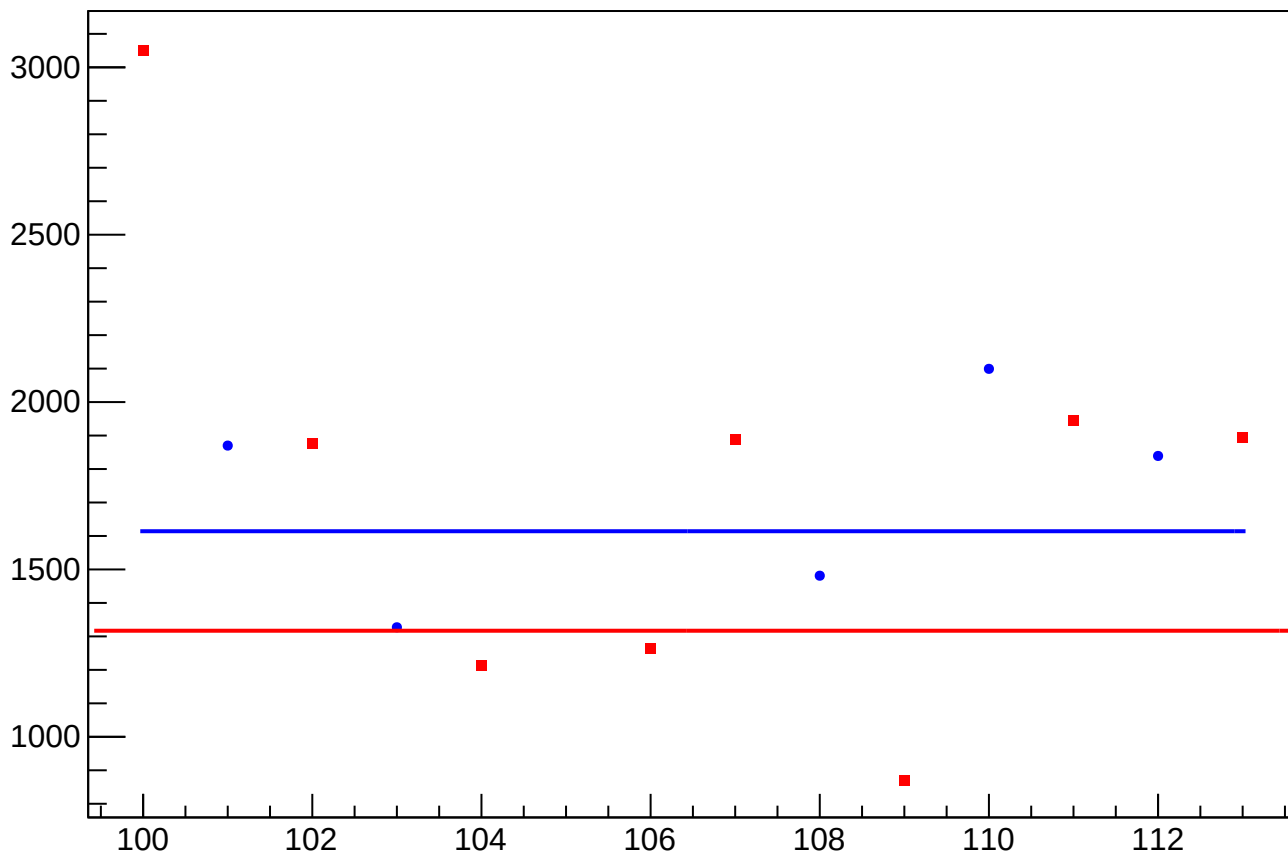
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 764.727+/-634.872  $\chi^2/\text{NDF}$ : 17.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_cor\_correction\_rms vs Slug



Right In: 1614.187 $\pm$ 0.728  $\chi^2$ /NDF: 142438.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1316.927 $\pm$ 0.570  $\chi^2$ /NDF: 595745.1/7

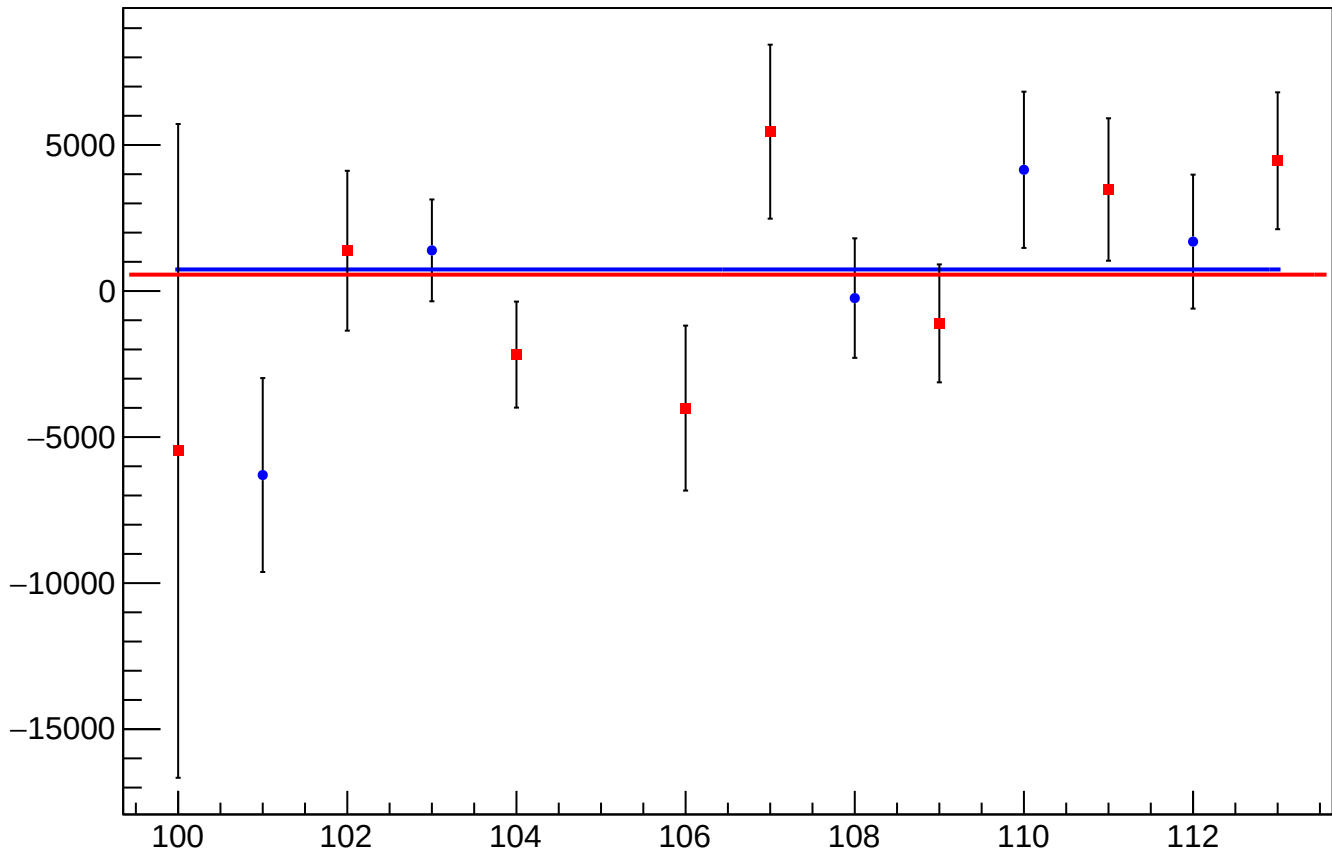
All: 1429.899 $\pm$ 0.449  $\chi^2$ /NDF: 841490.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_cor\_asym\_at2\_dd\_mean vs Slug



Right In: 739.153+/-1005.659  $\chi^2/\text{NDF}$ : 6.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 561.227+/-884.314  $\chi^2/\text{NDF}$ : 12.9/7

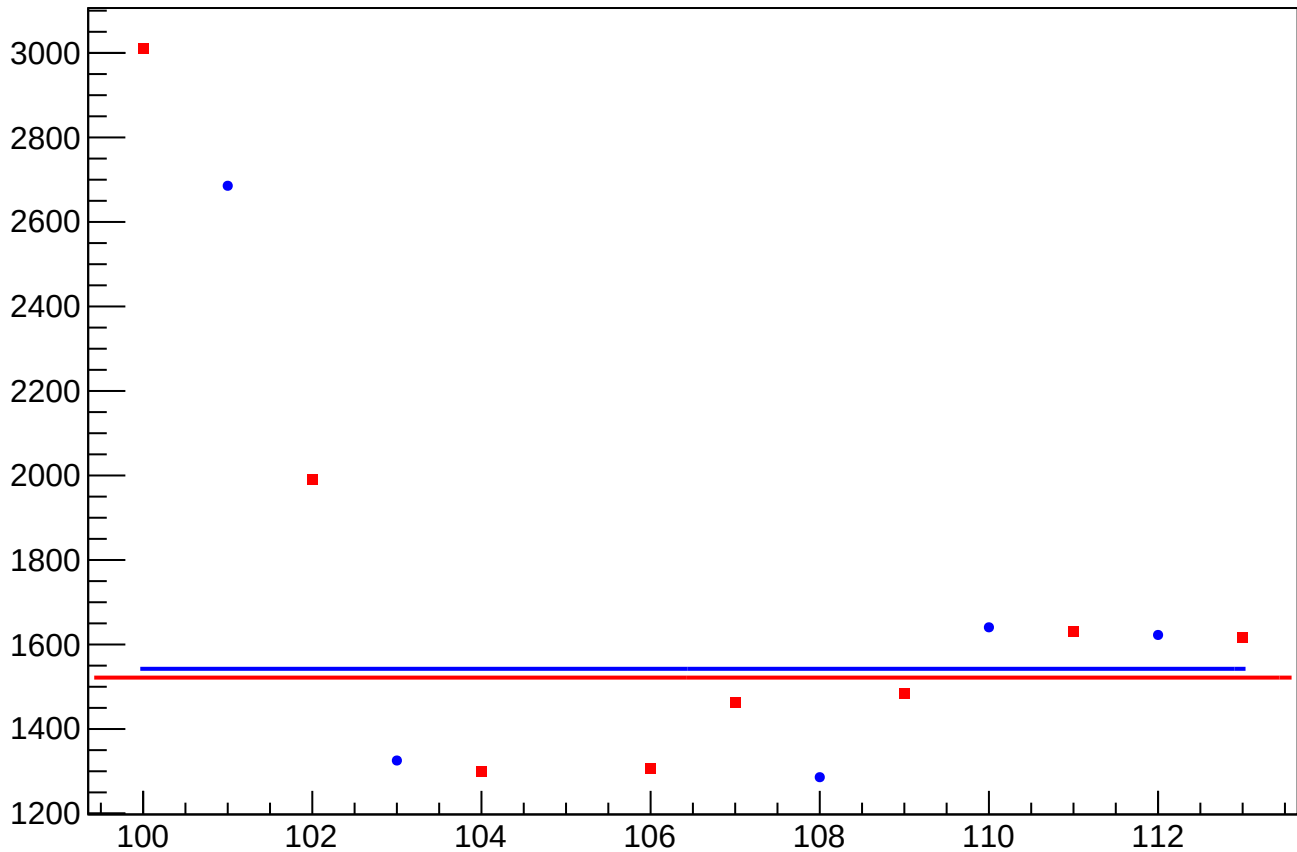
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 638.813+/-664.084  $\chi^2/\text{NDF}$ : 19.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_at2\_dd\_rms vs Slug



Right In: 1542.484 $\pm$ 0.711  $\chi^2$ /NDF: 304716.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1521.666 $\pm$ 0.625  $\chi^2$ /NDF: 143925.5/7

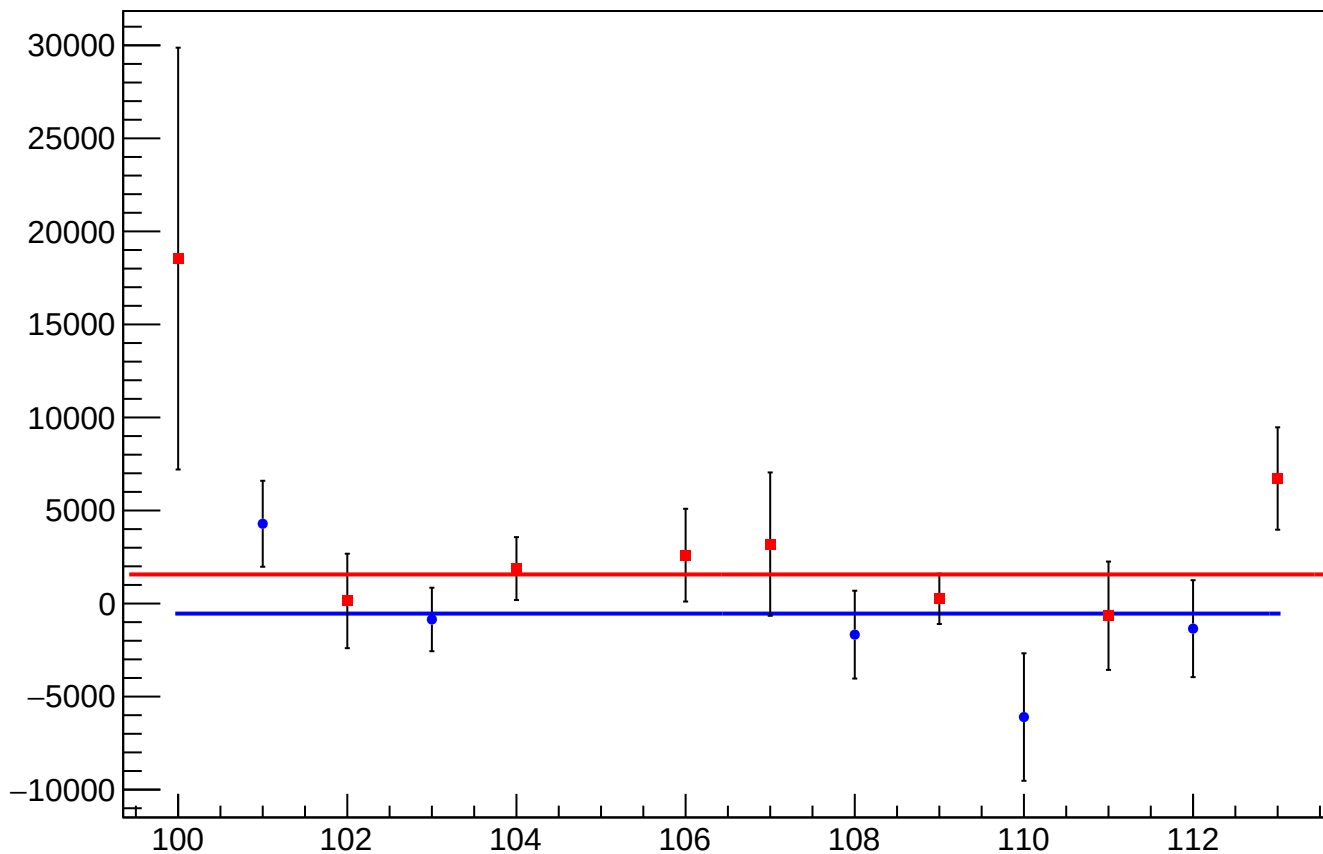
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1530.744 $\pm$ 0.470  $\chi^2$ /NDF: 449125.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -539.752+/-1029.840  $\chi^2/\text{NDF}$ : 7.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1564.392+/-806.316  $\chi^2/\text{NDF}$ : 8.0/7

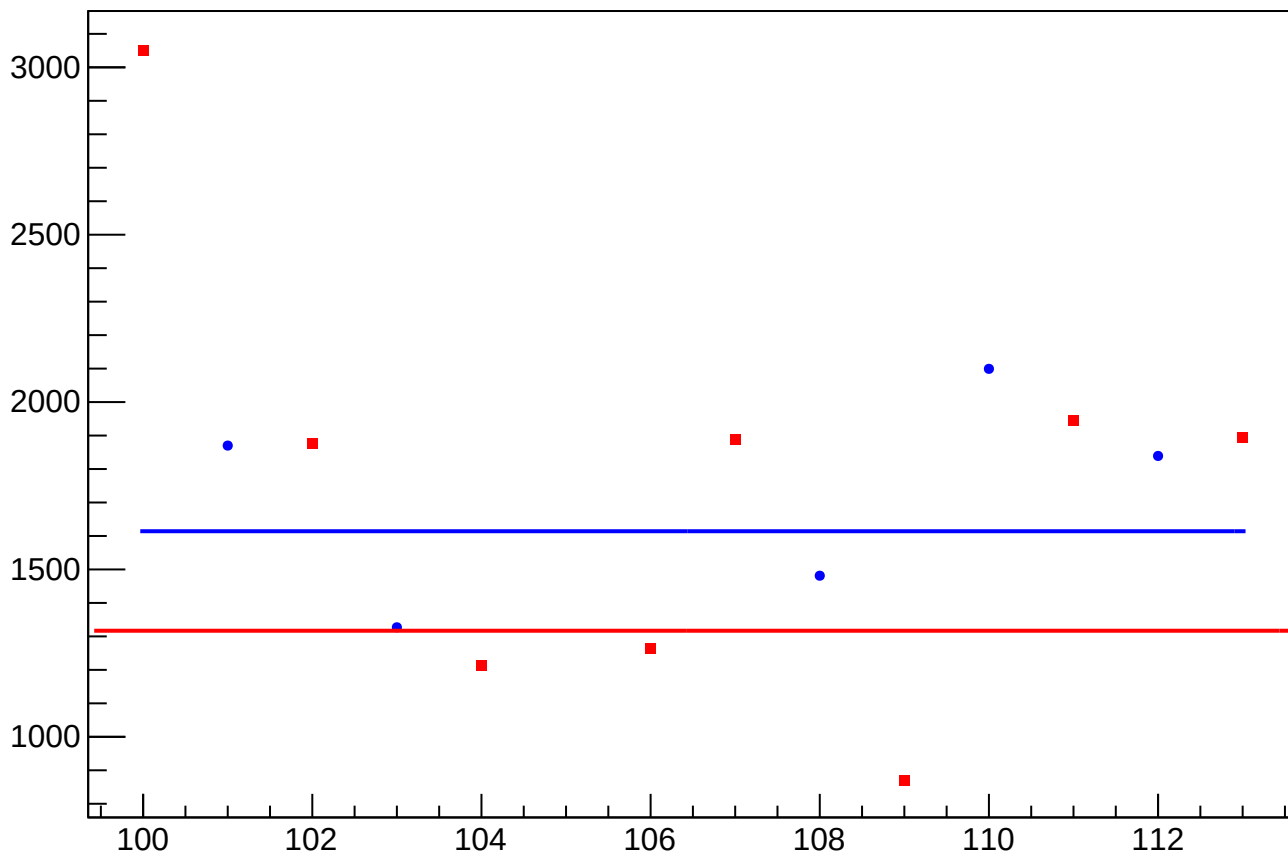
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 764.727+/-634.872  $\chi^2/\text{NDF}$ : 17.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1614.187 $\pm$ 0.728  $\chi^2$ /NDF: 142438.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1316.927 $\pm$ 0.570  $\chi^2$ /NDF: 595745.1/7

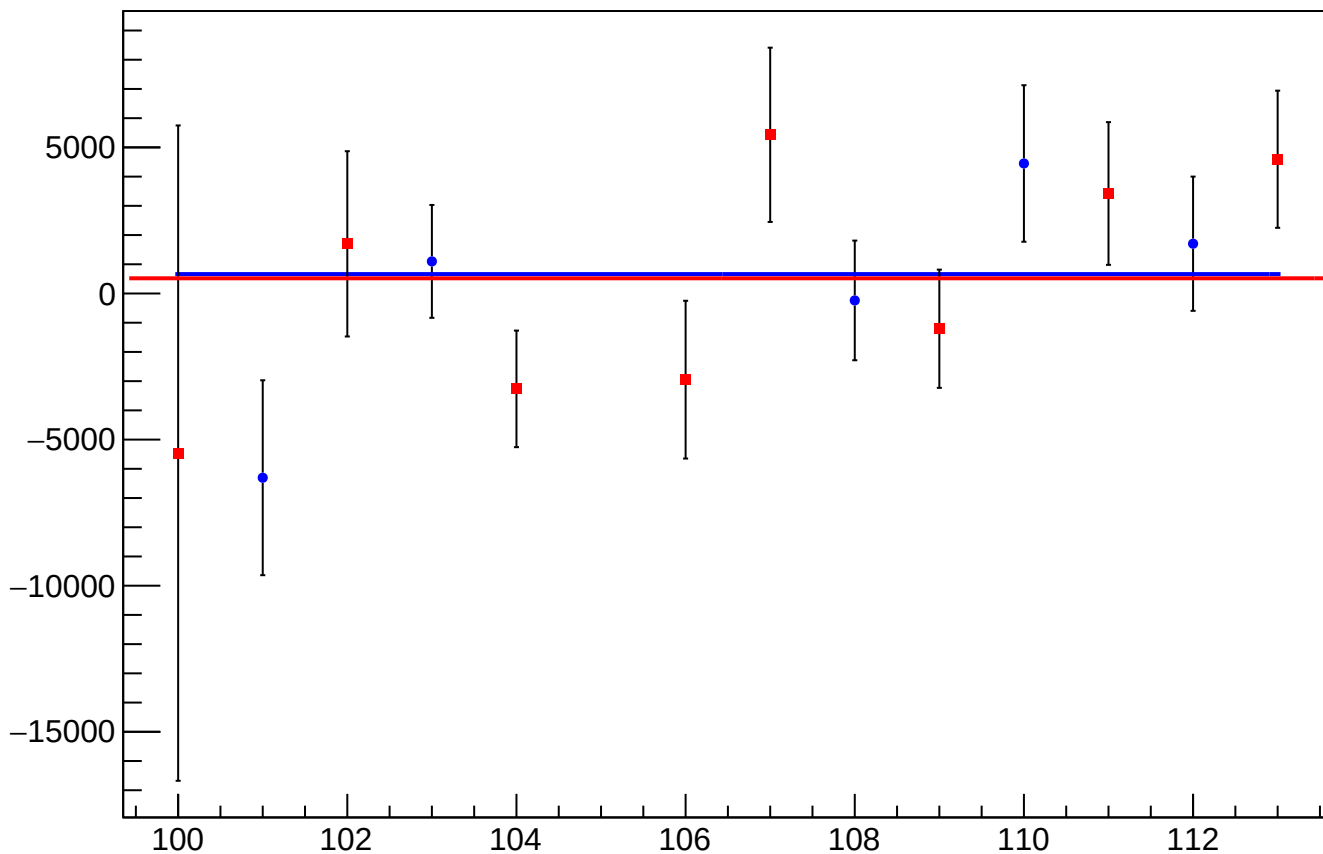
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1429.899 $\pm$ 0.449  $\chi^2$ /NDF: 841490.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_at2\_dd\_mean vs Slug



Right In:  $663.786 \pm 1039.505$   $\chi^2/\text{NDF}$ : 6.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $519.758 \pm 912.113$   $\chi^2/\text{NDF}$ : 13.5/7

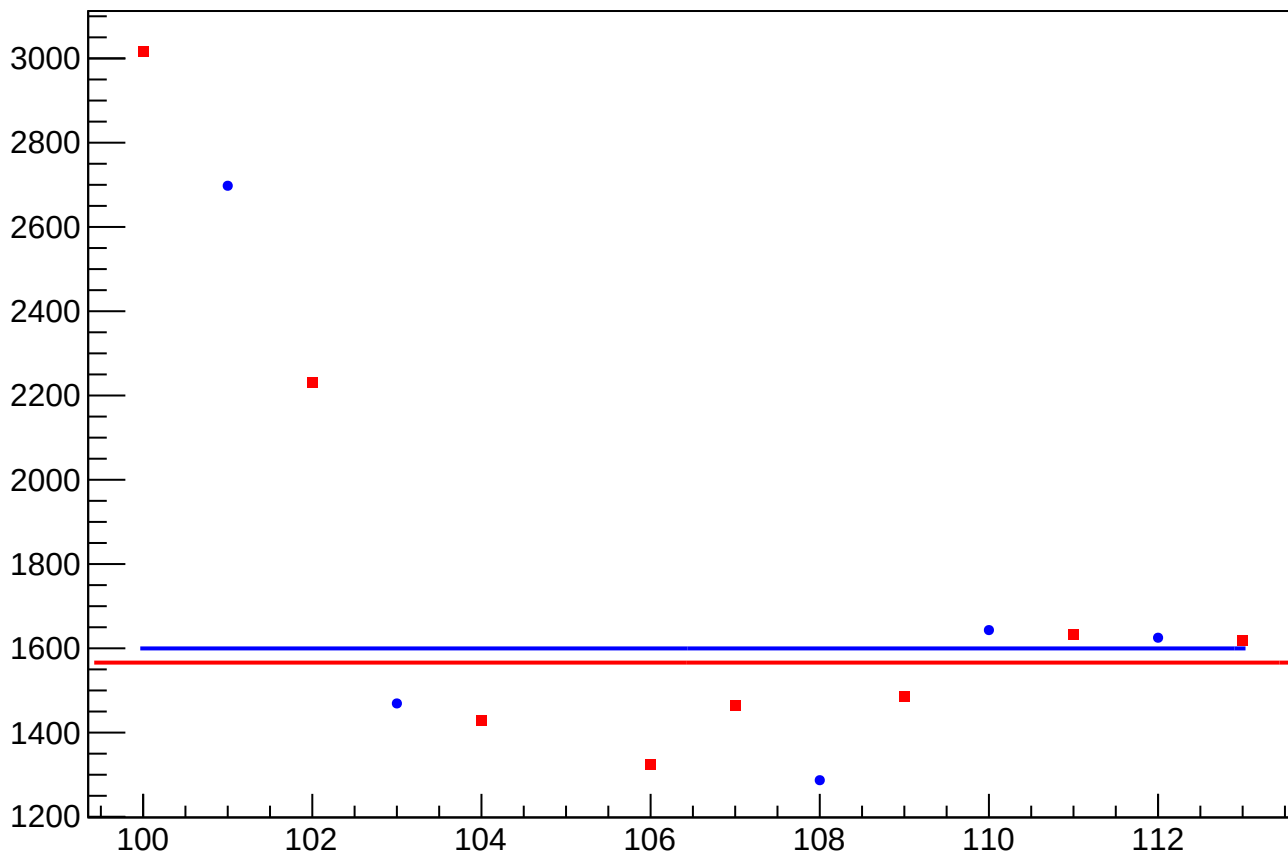
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $582.411 \pm 685.602$   $\chi^2/\text{NDF}$ : 20.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_at2\_dd\_rms vs Slug



Right In: 1599.759+/-0.735  $\chi^2/\text{NDF}$ : 273309.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1566.105+/-0.645  $\chi^2/\text{NDF}$ : 154376.4/7

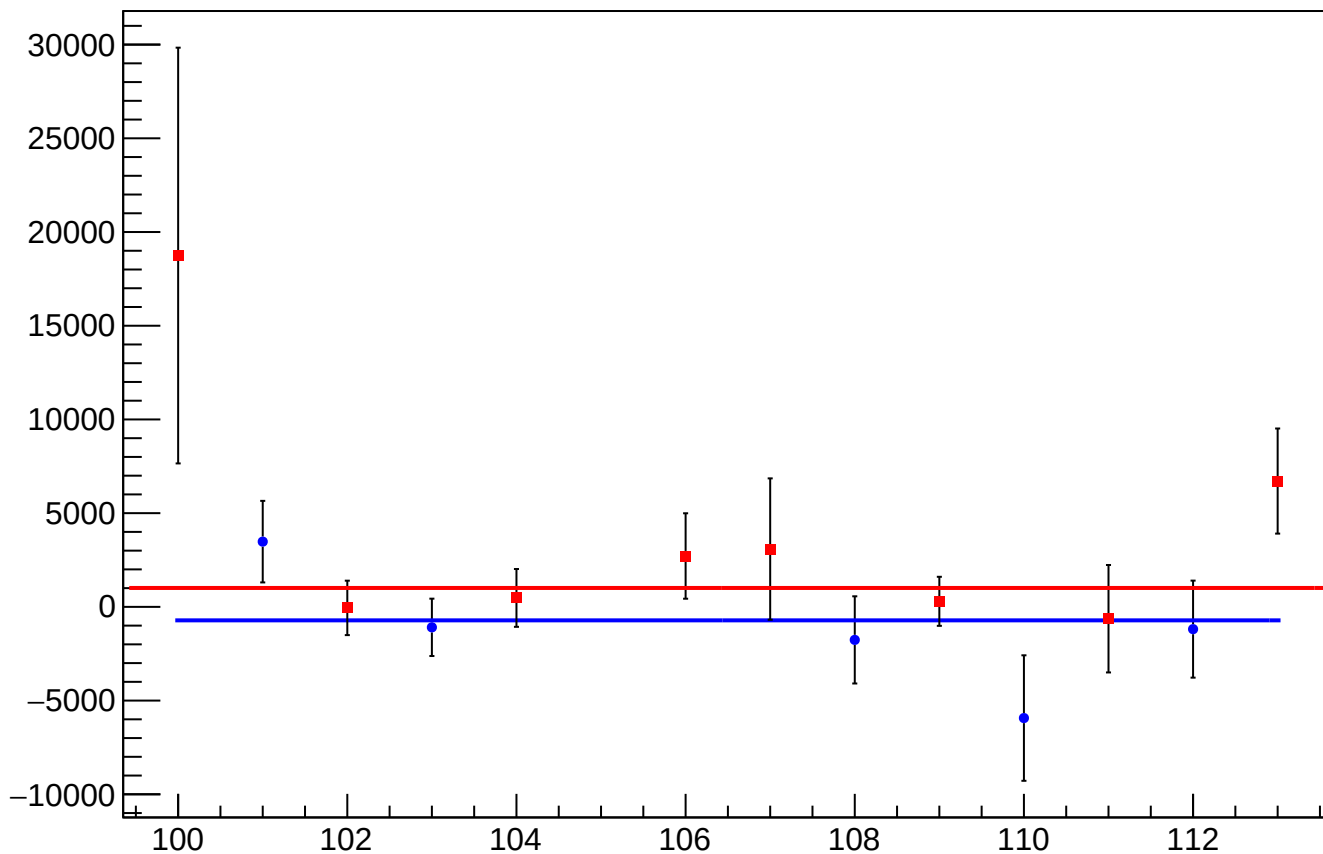
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1580.745+/-0.485  $\chi^2/\text{NDF}$ : 428870.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_dit\_correction\_mean vs Slug



Right In: -719.276+/-970.408  $\chi^2/\text{NDF}$ : 6.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1008.996+/-707.397  $\chi^2/\text{NDF}$ : 8.8/7

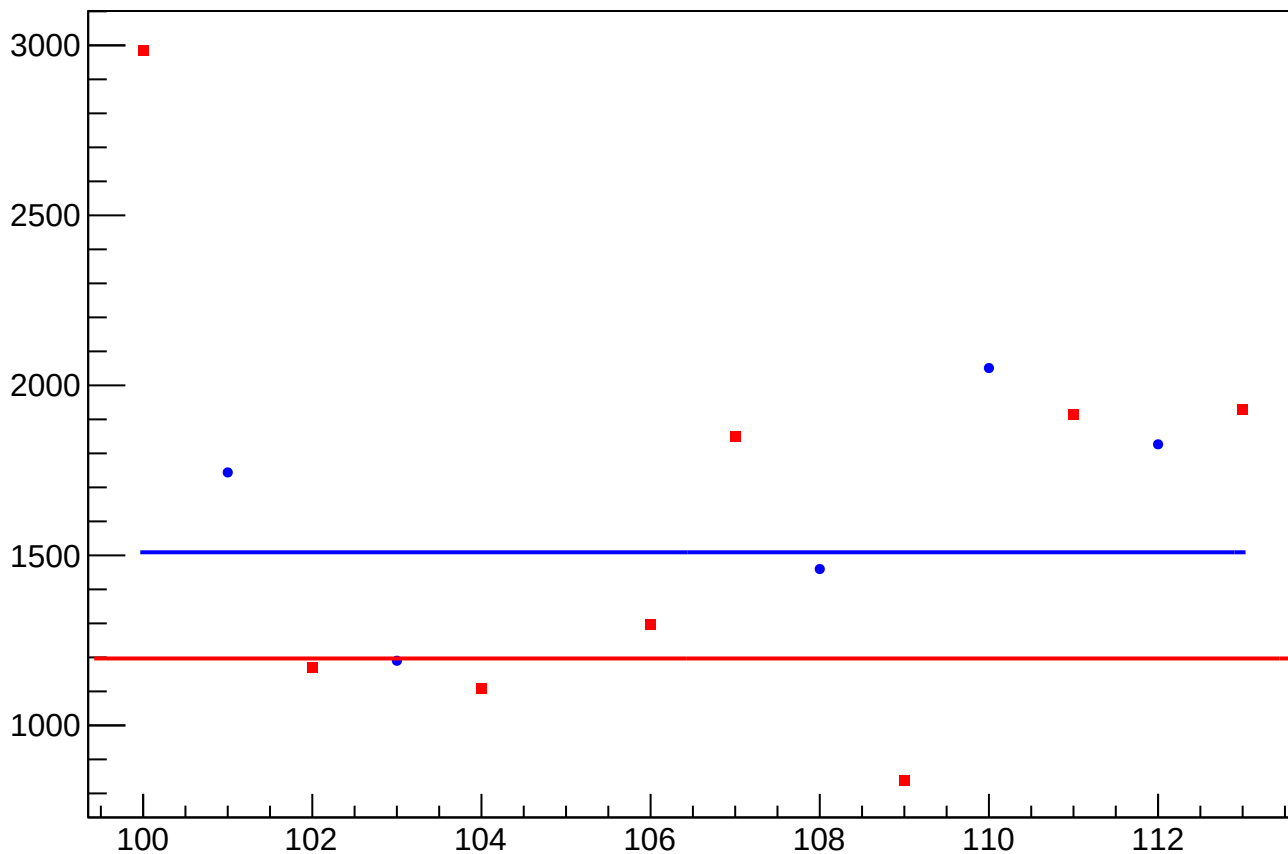
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 409.285+/-571.636  $\chi^2/\text{NDF}$ : 17.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_dit\_correction\_rms vs Slug



Right In: 1509.099+/-0.686  $\chi^2/\text{NDF}$ : 193641.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1196.813+/-0.500  $\chi^2/\text{NDF}$ : 535353.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

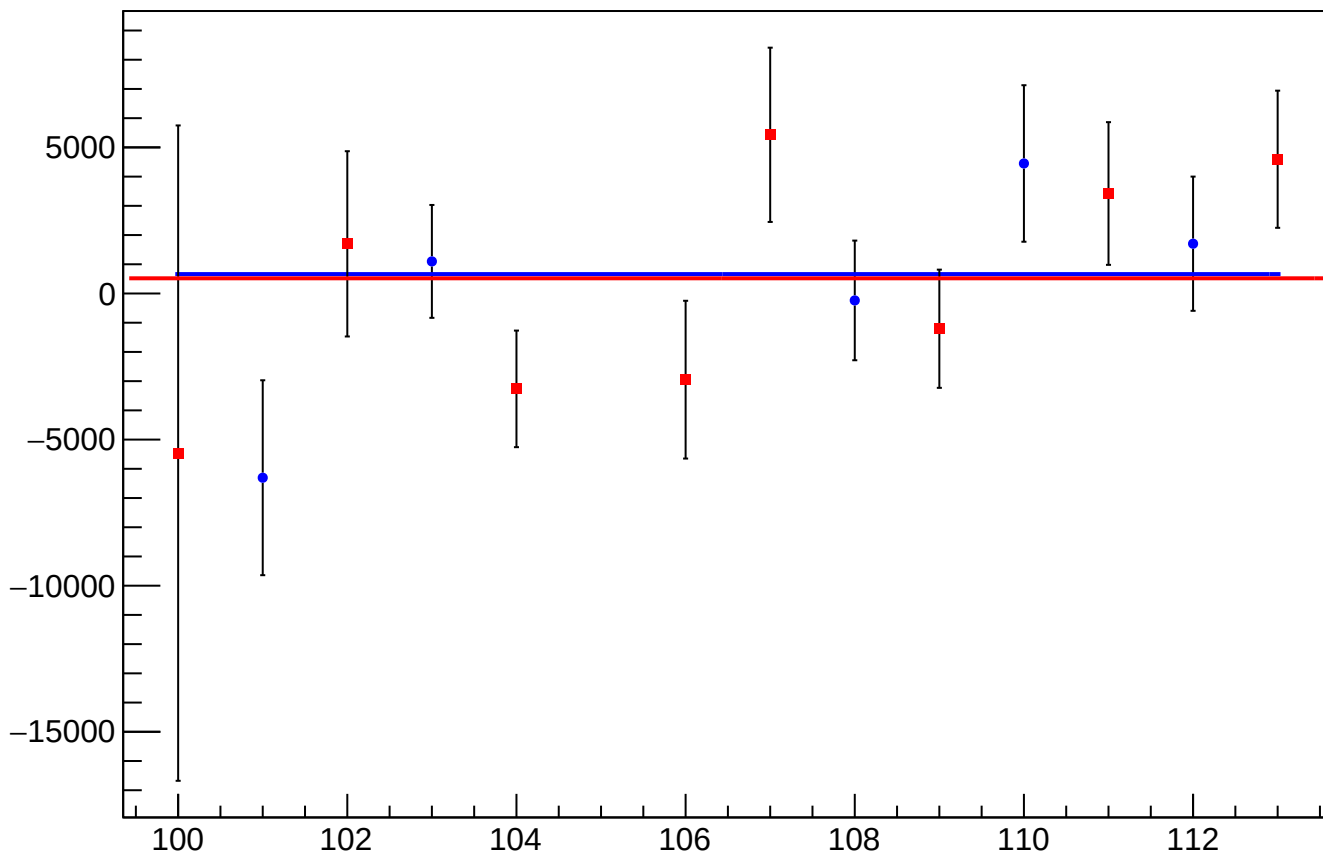
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1305.176+/-0.404  $\chi^2/\text{NDF}$ : 864246.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_at2\_dd\_mean vs Slug



Right In: 663.779+/-1039.505  $\chi^2/\text{NDF}$ : 6.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 519.758+/-912.113  $\chi^2/\text{NDF}$ : 13.5/7

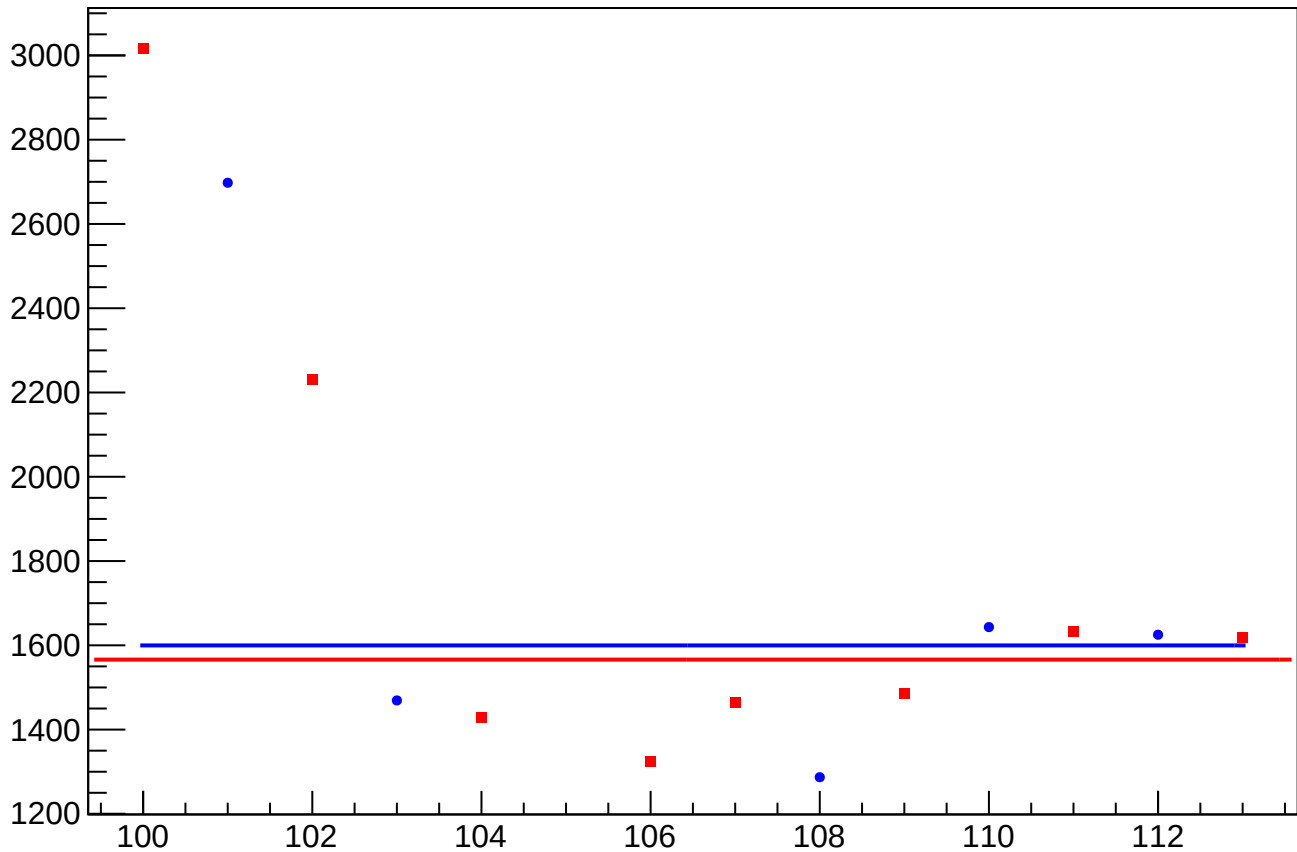
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 582.407+/-685.602  $\chi^2/\text{NDF}$ : 20.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_at2\_dd\_rms vs Slug



Right In: 1599.759 $\pm$ 0.735  $\chi^2$ /NDF: 273309.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1566.105 $\pm$ 0.645  $\chi^2$ /NDF: 154376.4/7

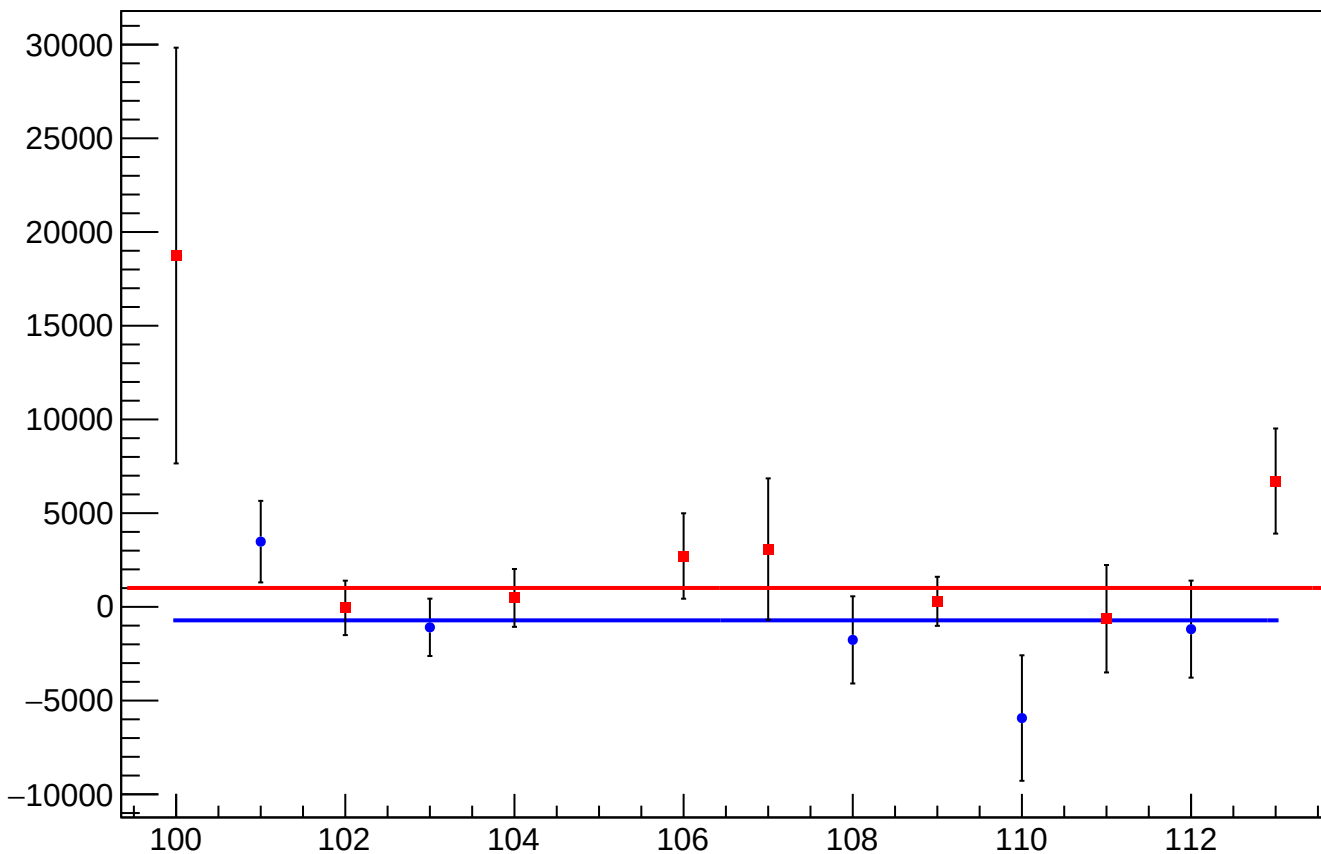
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1580.745 $\pm$ 0.485  $\chi^2$ /NDF: 428870.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -719.275+/-970.406  $\chi^2/\text{NDF}$ : 6.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1009.000+/-707.399  $\chi^2/\text{NDF}$ : 8.8/7

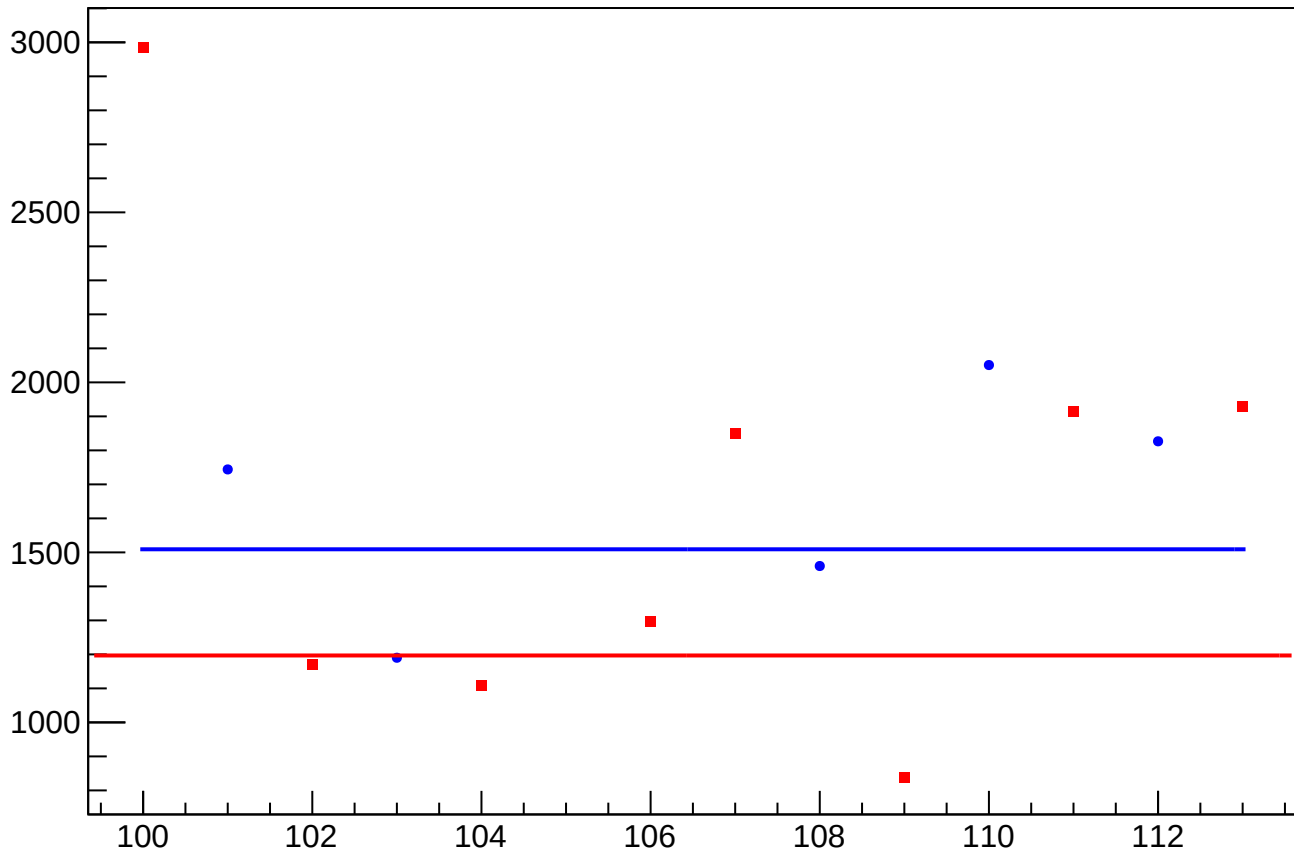
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 409.283+/-571.637  $\chi^2/\text{NDF}$ : 17.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1509.097 $\pm$ 0.686  $\chi^2$ /NDF: 193638.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1196.819 $\pm$ 0.500  $\chi^2$ /NDF: 535338.1/7

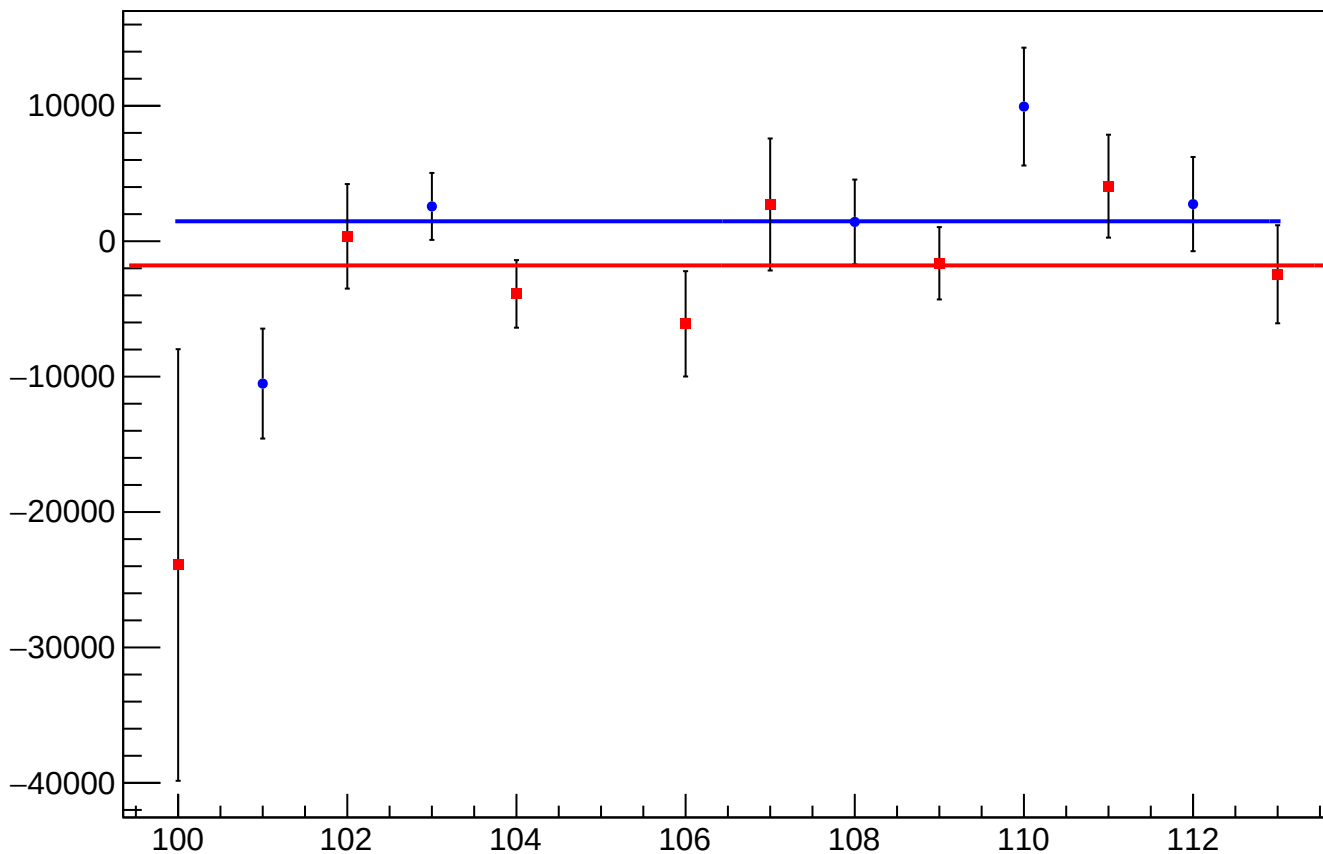
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1305.180 $\pm$ 0.404  $\chi^2$ /NDF: 864220.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_mean vs Slug



Right In: 1471.775 $\pm$ 1471.464  $\chi^2$ /NDF: 12.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1786.247 $\pm$ 1264.508  $\chi^2$ /NDF: 7.4/7

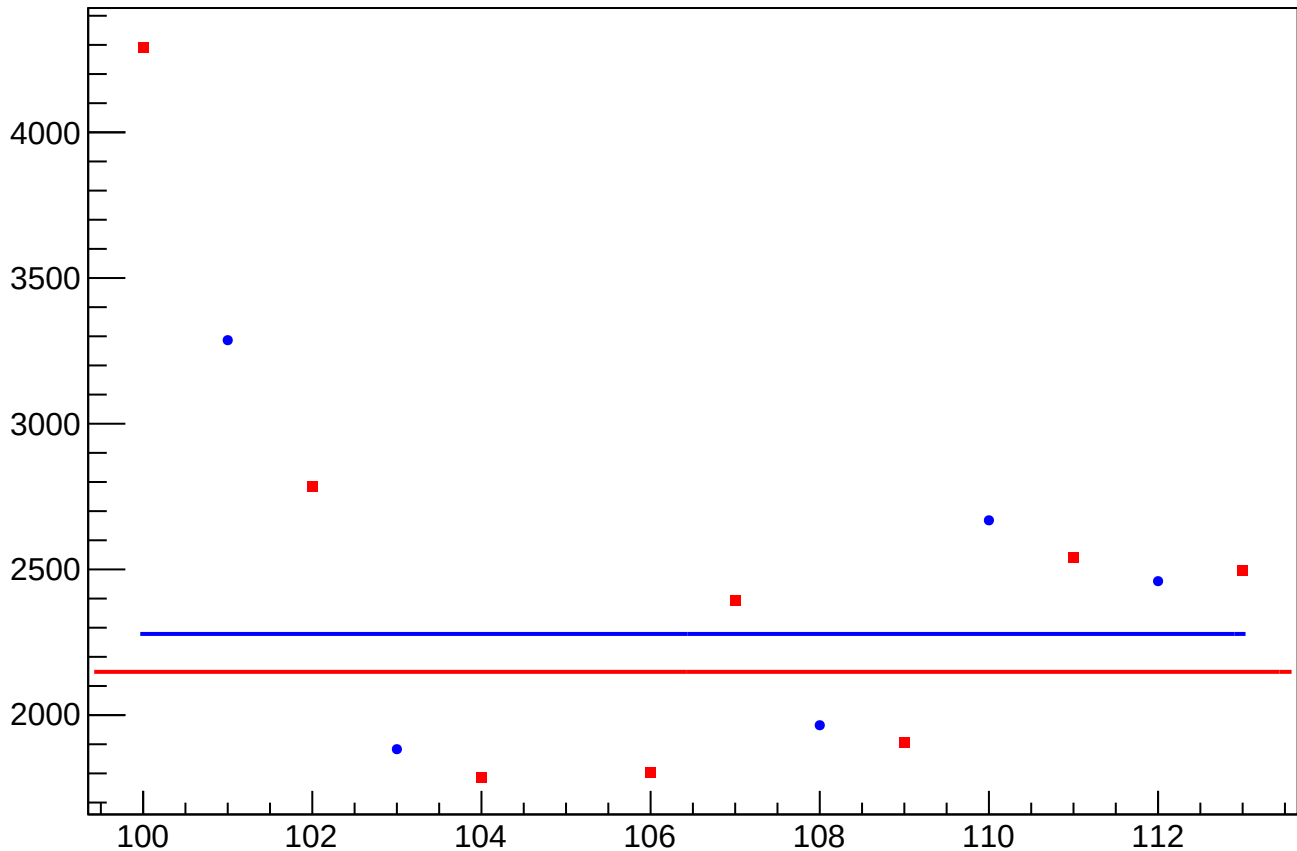
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -402.279 $\pm$ 959.038  $\chi^2$ /NDF: 23.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_rms vs Slug



Right In: 2278.645 $\pm$ 1.040  $\chi^2$ /NDF: 216006.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2148.478 $\pm$ 0.894  $\chi^2$ /NDF: 209357.5/7

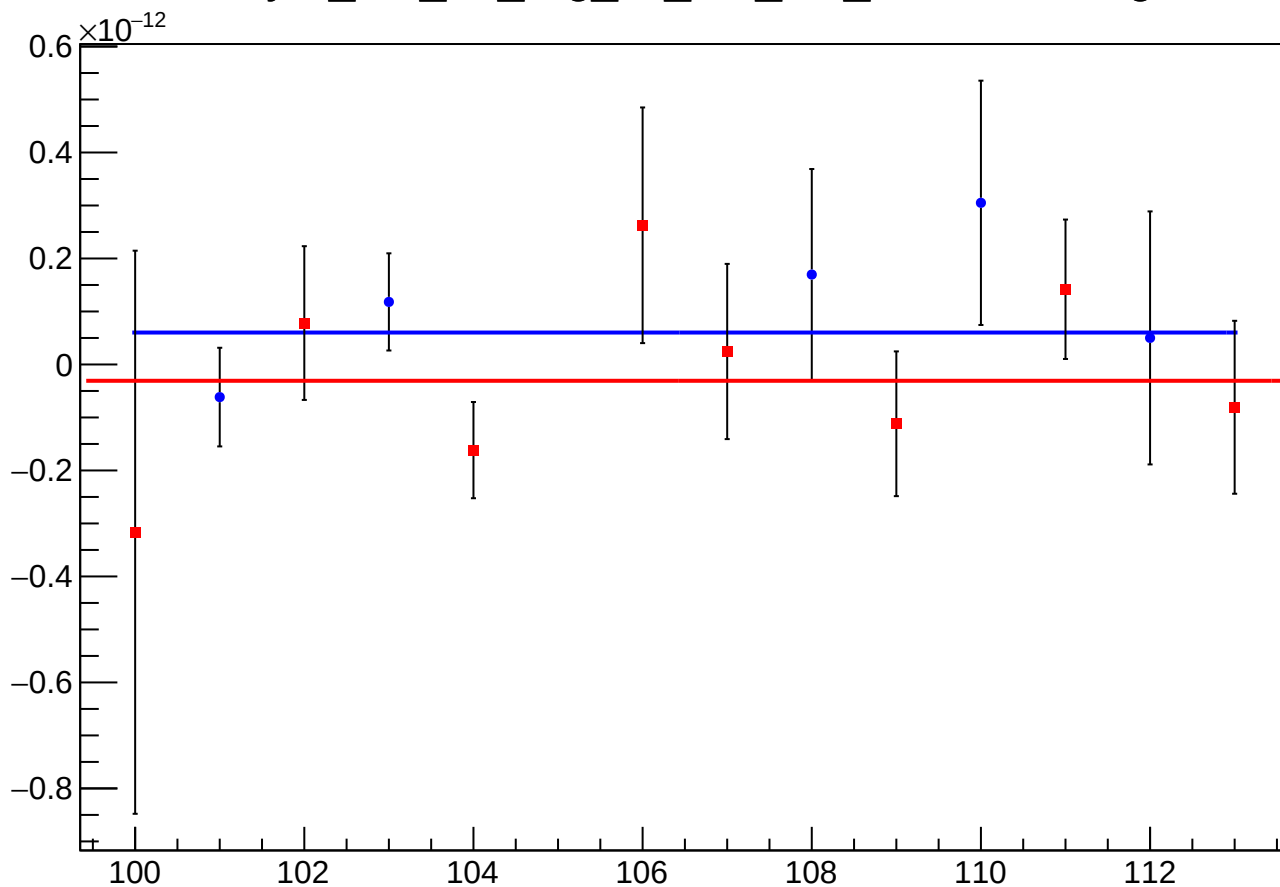
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2203.771 $\pm$ 0.678  $\chi^2$ /NDF: 434366.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.0/7

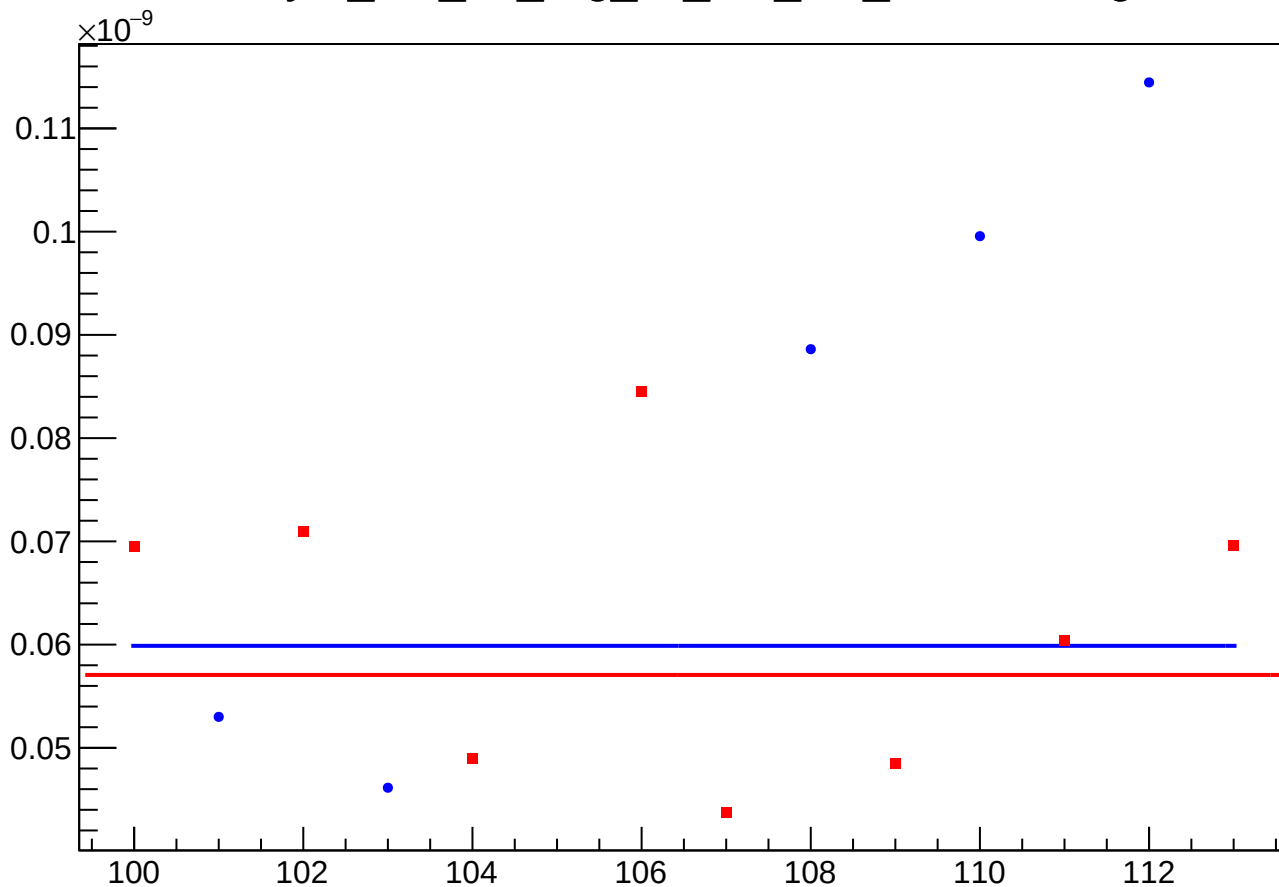
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 261261.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 99770.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

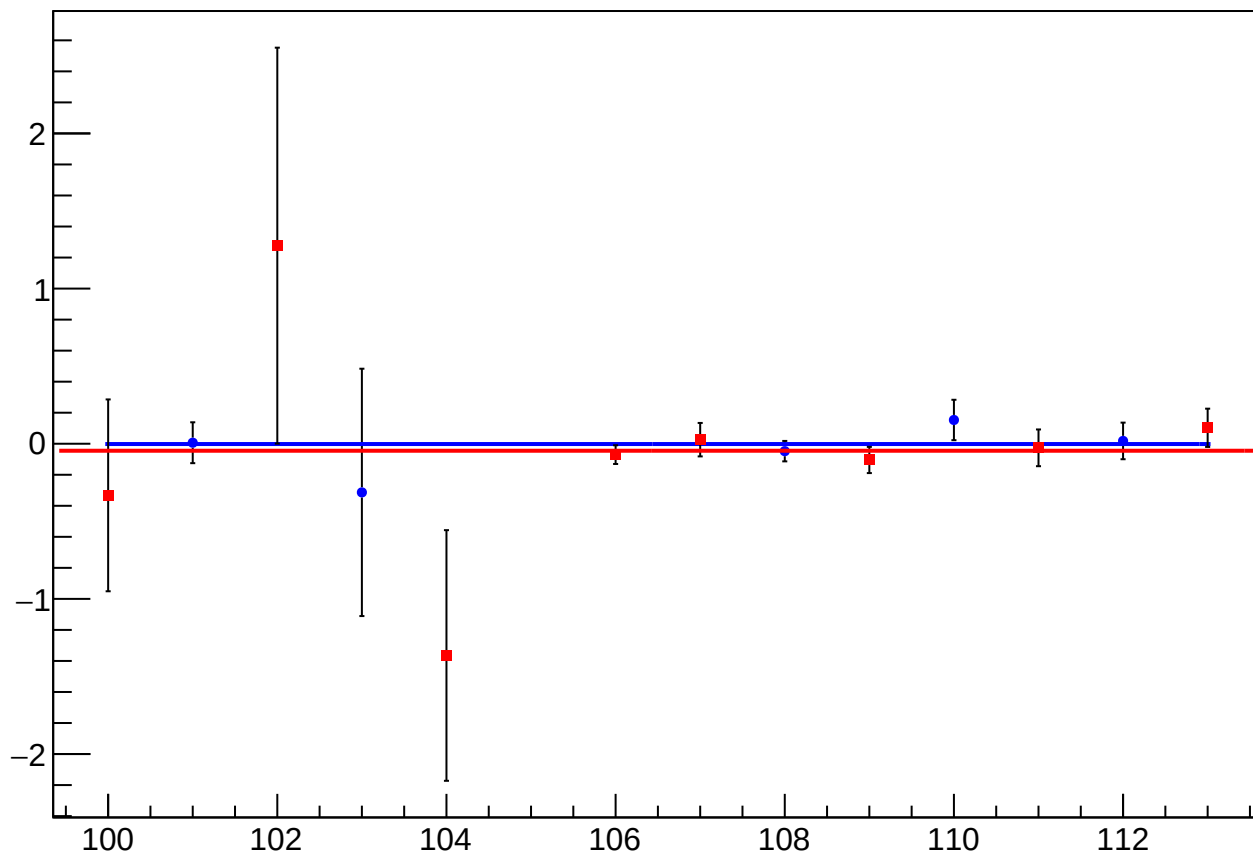
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 363670.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_at2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.002 \pm 0.049$   $\chi^2/\text{NDF}$ : 2.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.045 \pm 0.039$   $\chi^2/\text{NDF}$ : 6.5/7

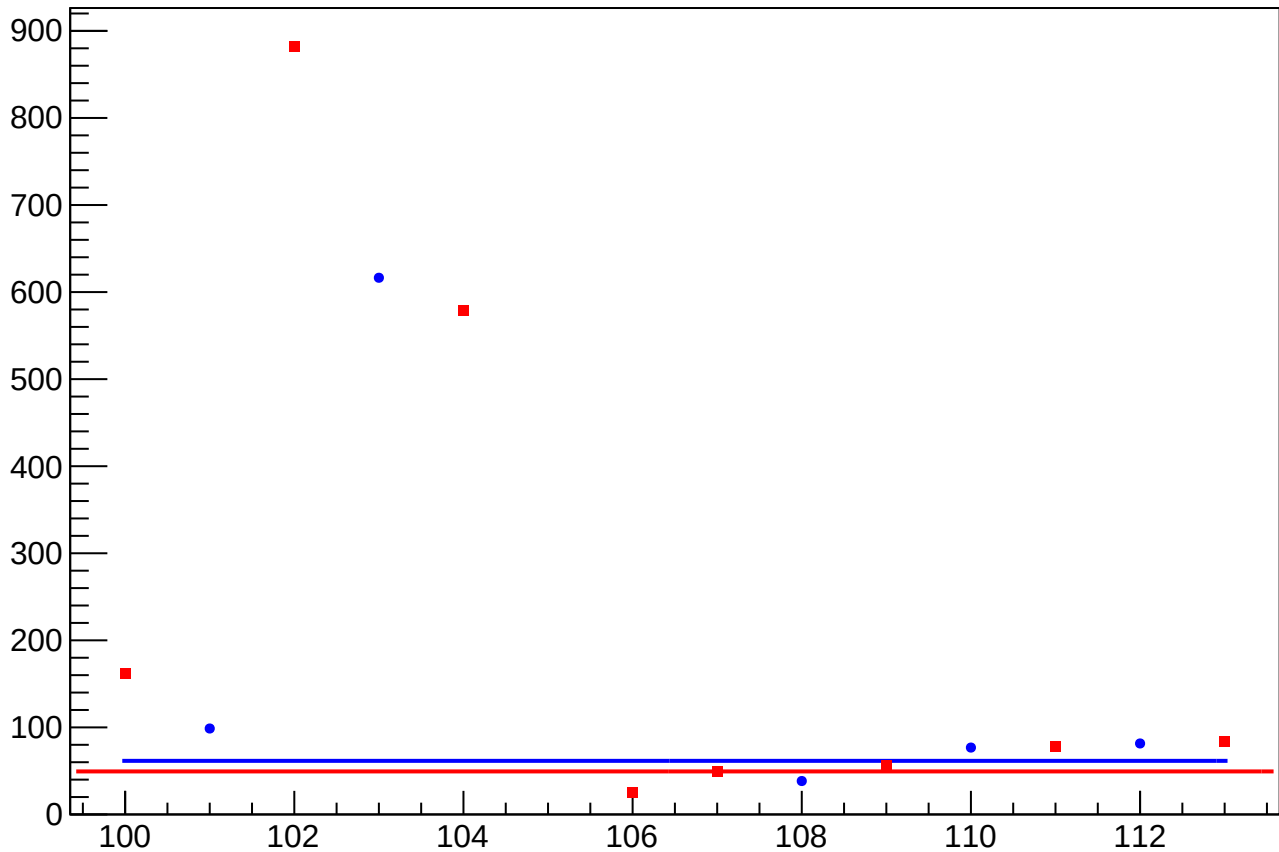
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.028 \pm 0.031$   $\chi^2/\text{NDF}$ : 9.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 61.570 $\pm$ 0.034  $\chi^2$ /NDF: 1460724.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 49.423 $\pm$ 0.028  $\chi^2$ /NDF: 2385072.9/7

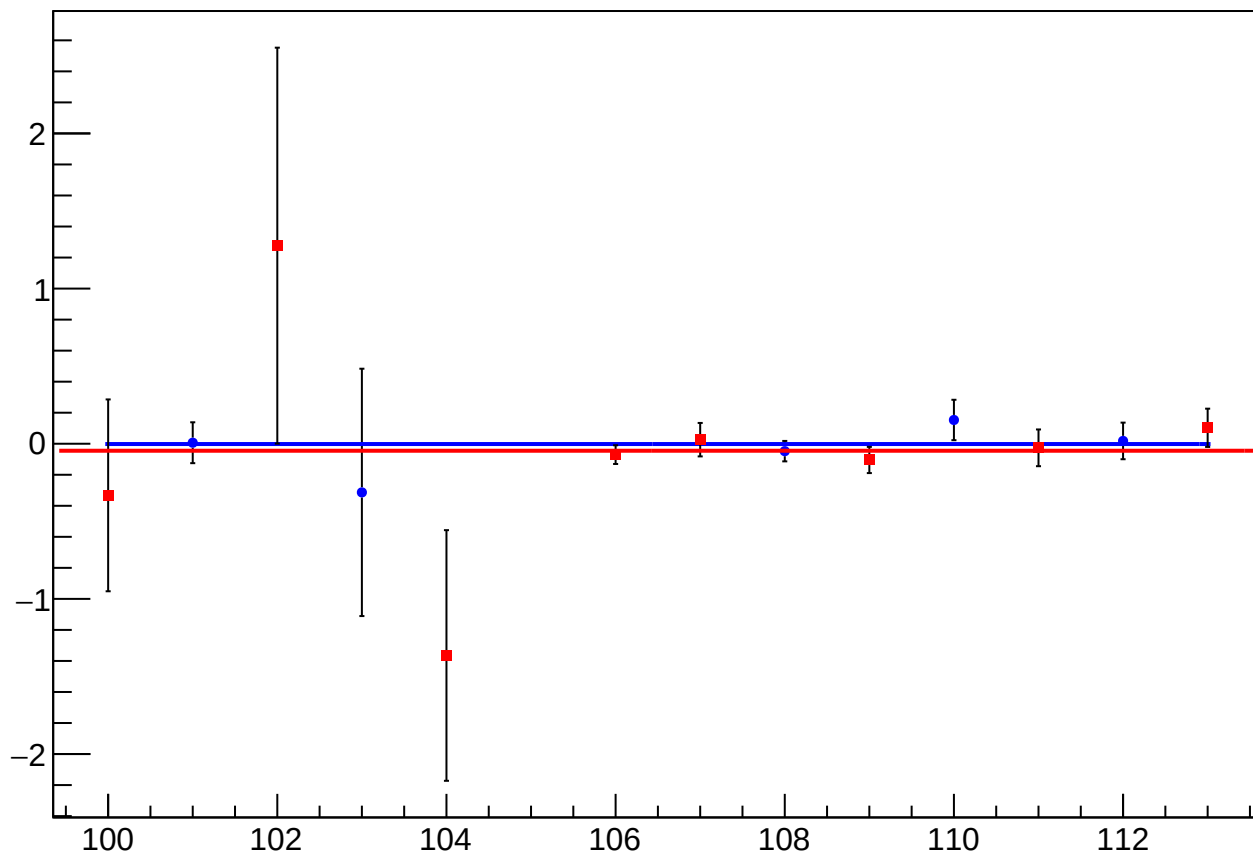
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 54.228 $\pm$ 0.022  $\chi^2$ /NDF: 3920865.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.049  $\chi^2$ /NDF: 2.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.045 $\pm$ 0.039  $\chi^2$ /NDF: 6.5/7

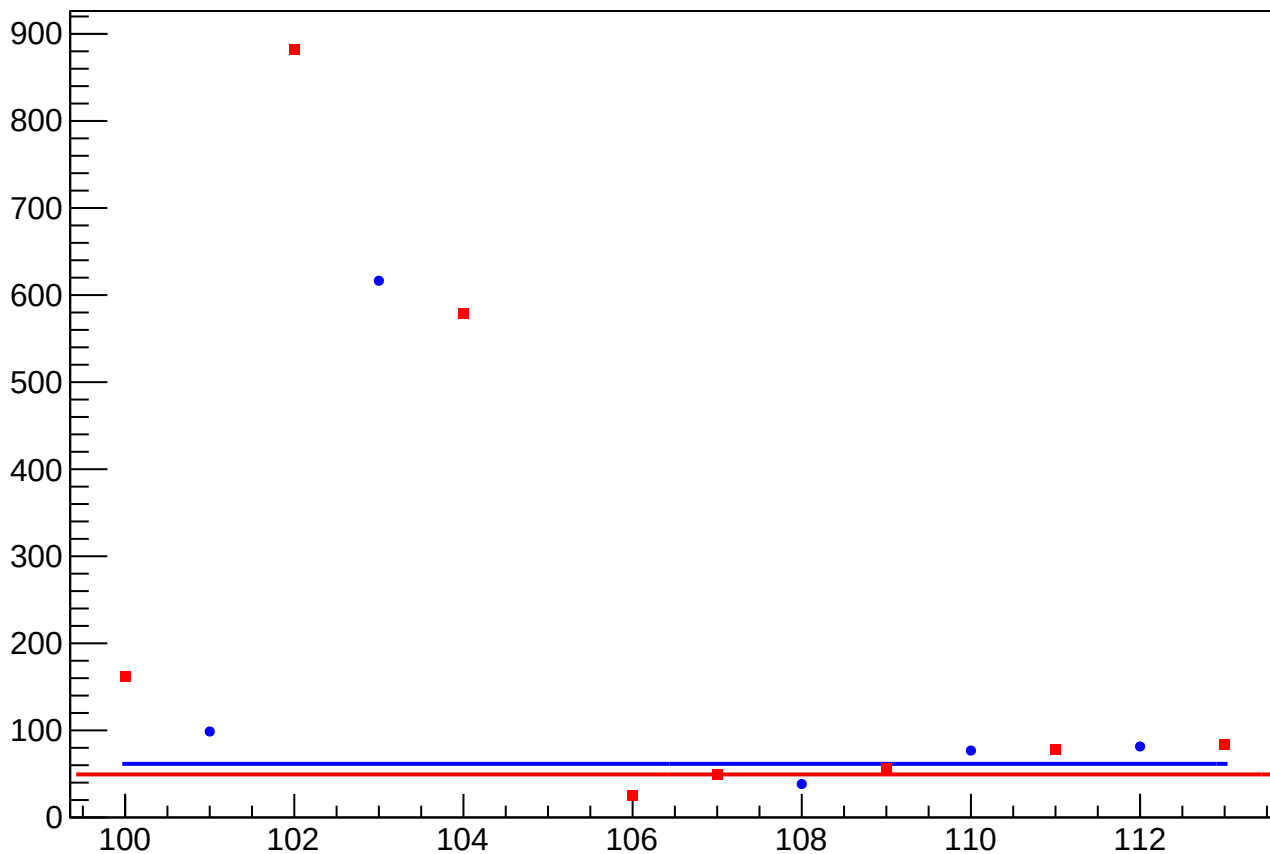
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.028 $\pm$ 0.031  $\chi^2$ /NDF: 9.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 61.570 $\pm$ 0.034  $\chi^2$ /NDF: 1460724.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 49.423 $\pm$ 0.028  $\chi^2$ /NDF: 2385072.9/7

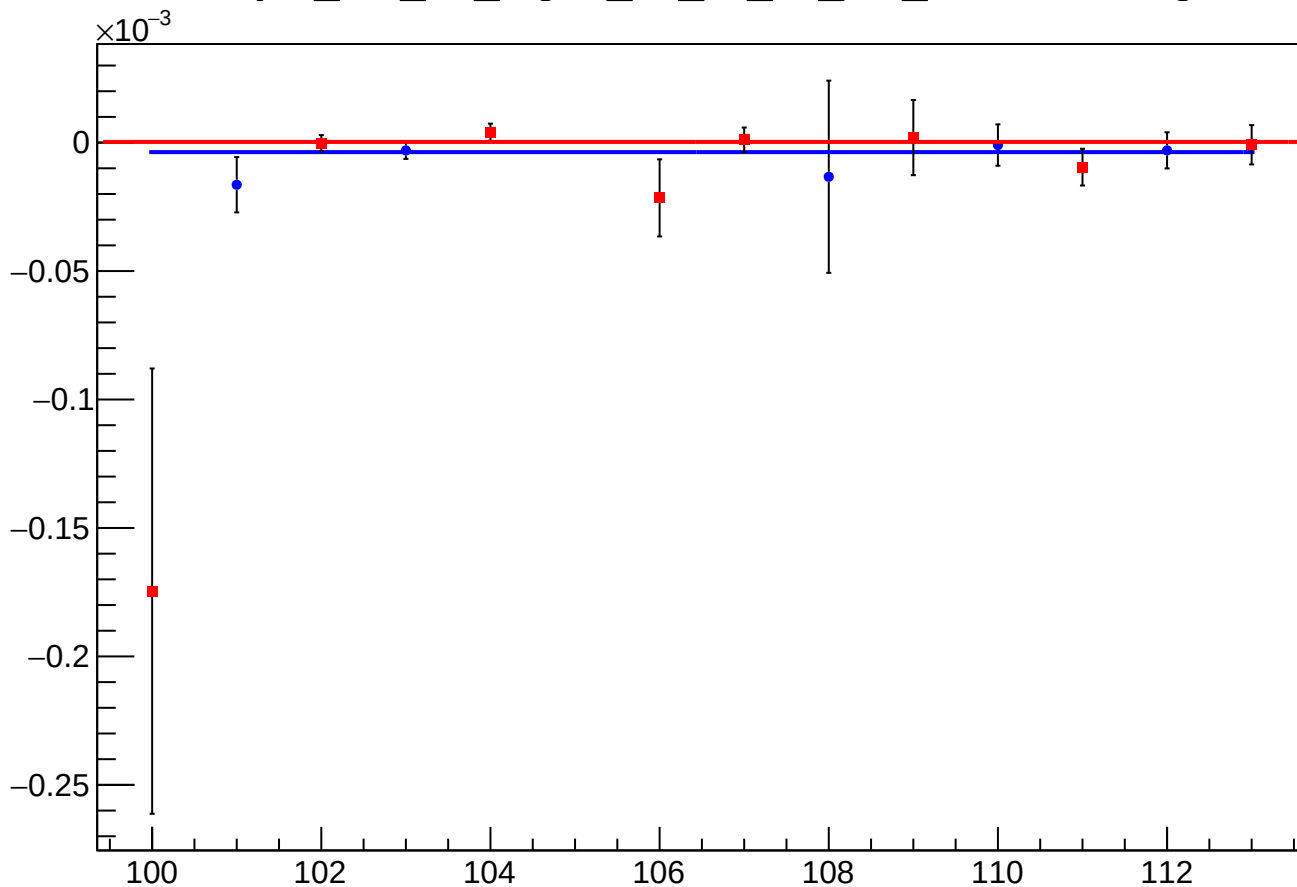
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 54.228 $\pm$ 0.022  $\chi^2$ /NDF: 3920865.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.4/7

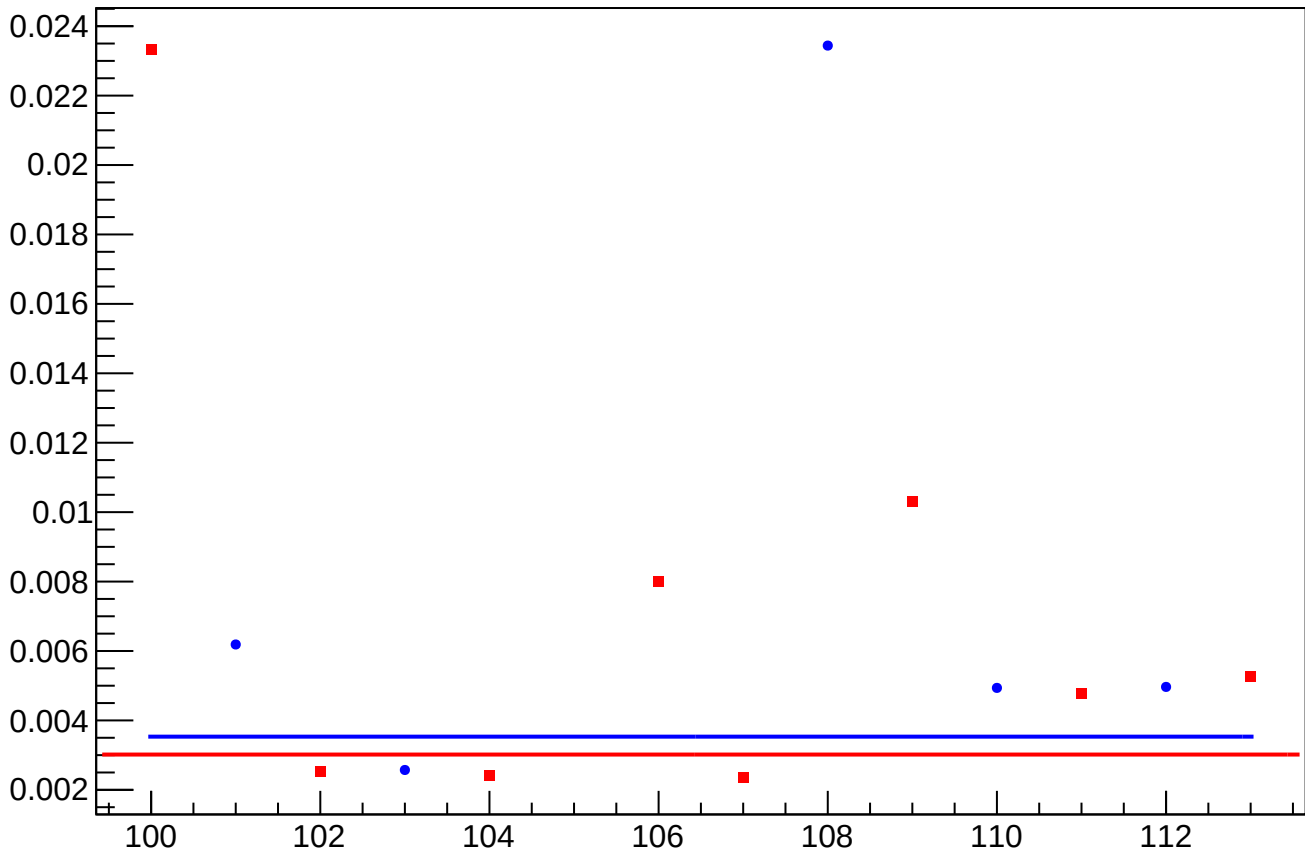
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 1000645.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1272539.0/7

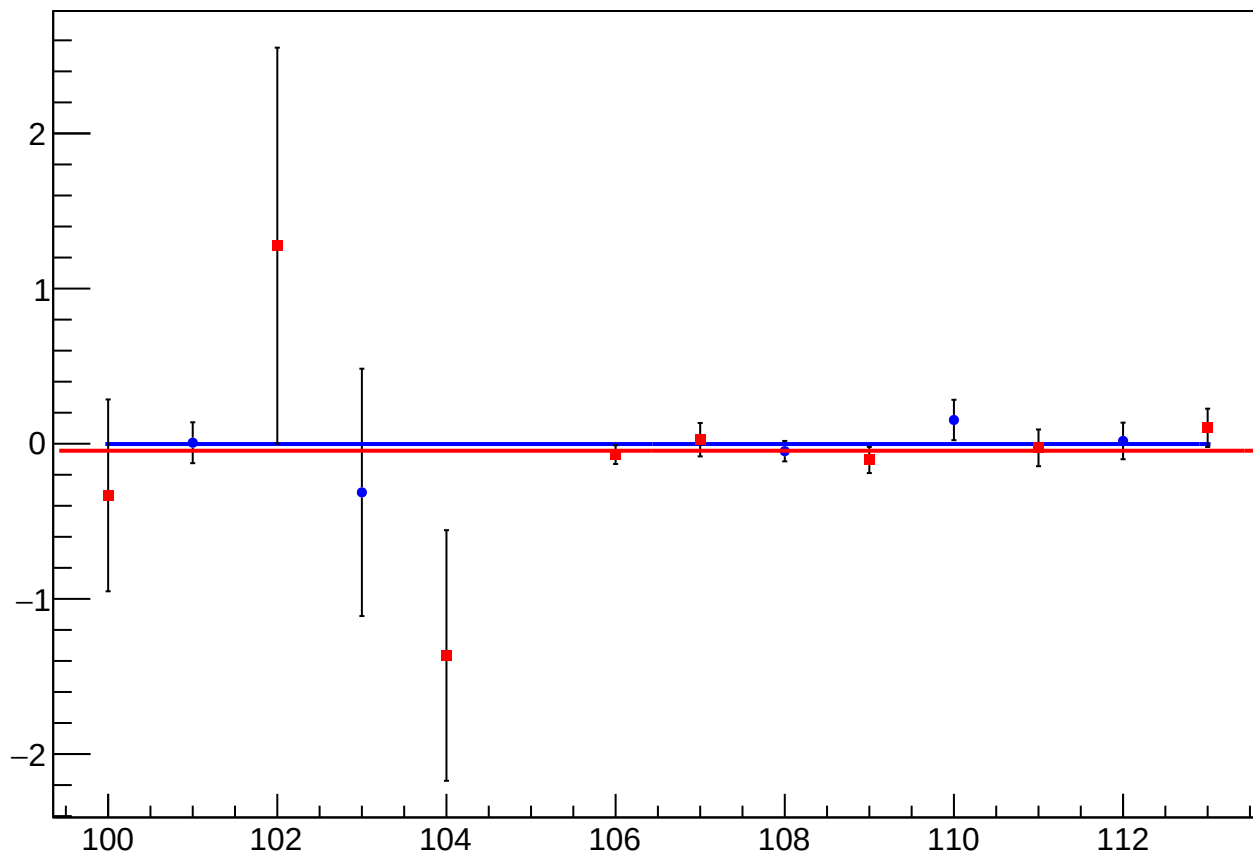
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

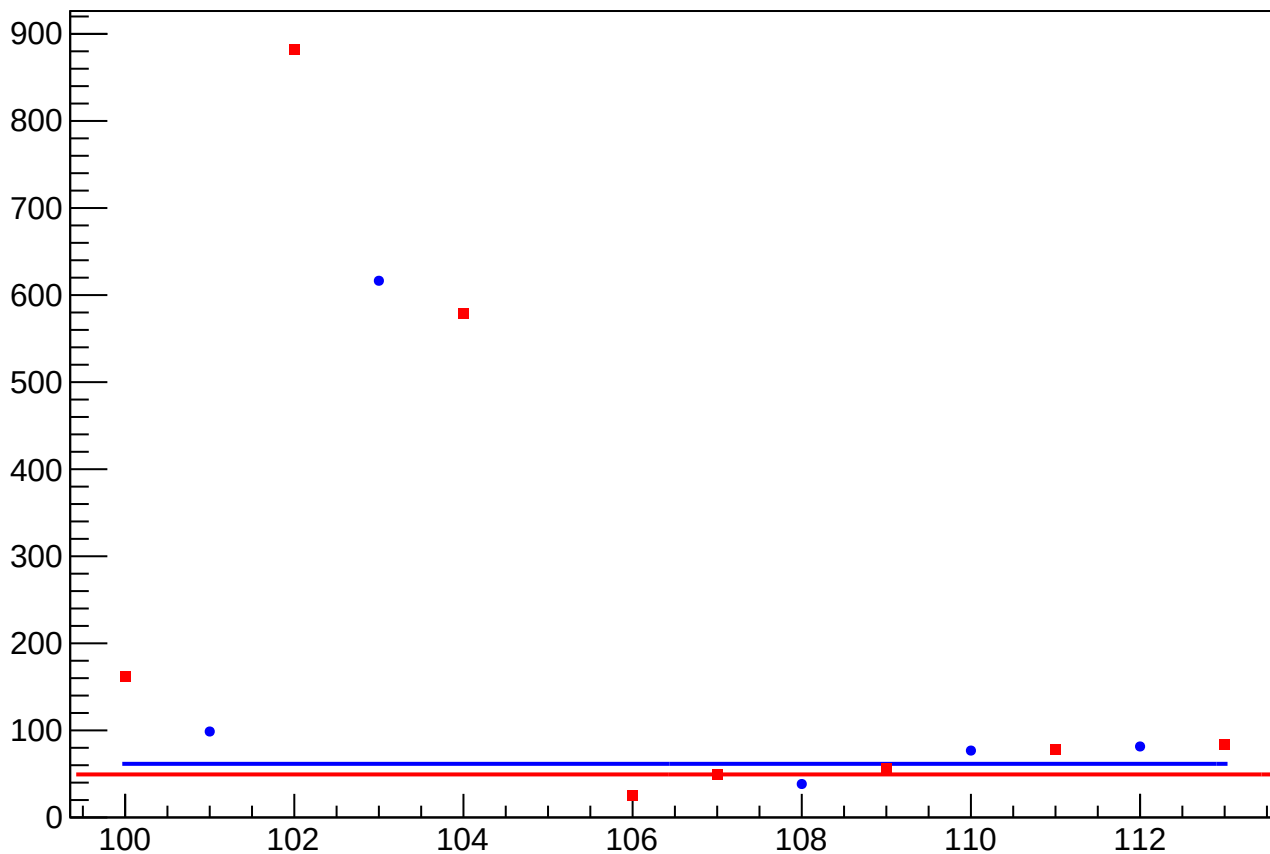
All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2321965.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



# asym\_at2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 61.591+/-0.034  $\chi^2/\text{NDF}$ : 1460154.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 49.414+/-0.028  $\chi^2/\text{NDF}$ : 2385466.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

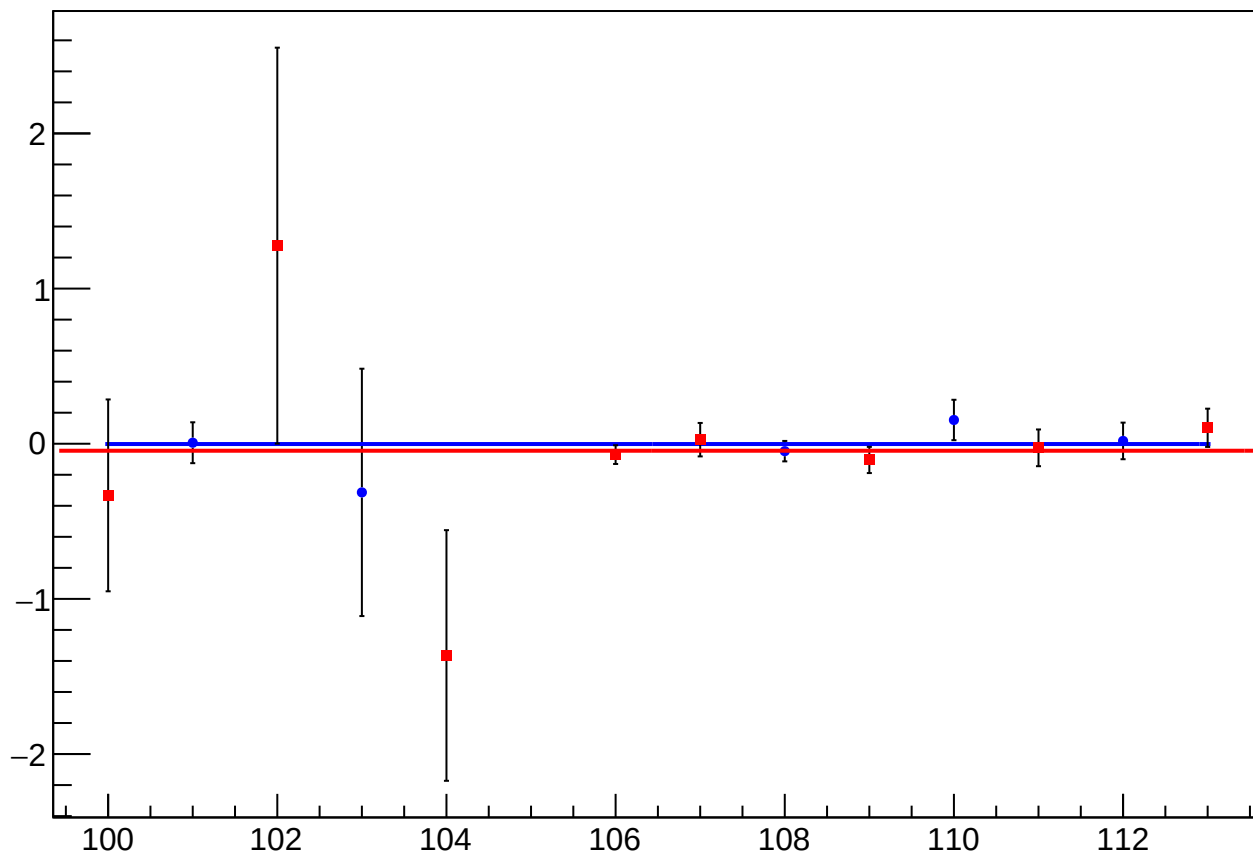
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.229+/-0.022  $\chi^2/\text{NDF}$ : 3921046.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_at2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.049  $\chi^2$ /NDF: 2.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.045 $\pm$ 0.039  $\chi^2$ /NDF: 6.5/7

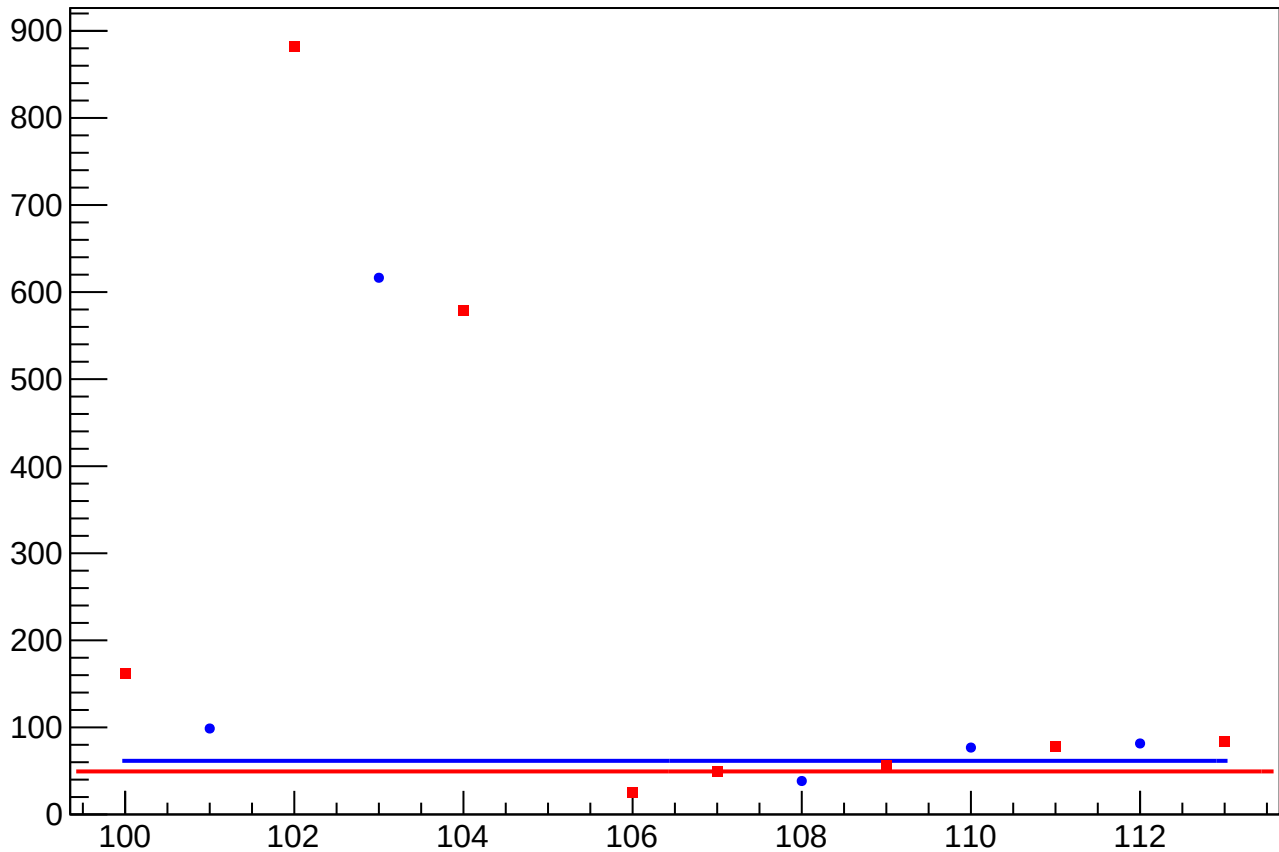
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.028 $\pm$ 0.031  $\chi^2$ /NDF: 9.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 61.591+/-0.034  $\chi^2/\text{NDF}$ : 1460154.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 49.414+/-0.028  $\chi^2/\text{NDF}$ : 2385466.6/7

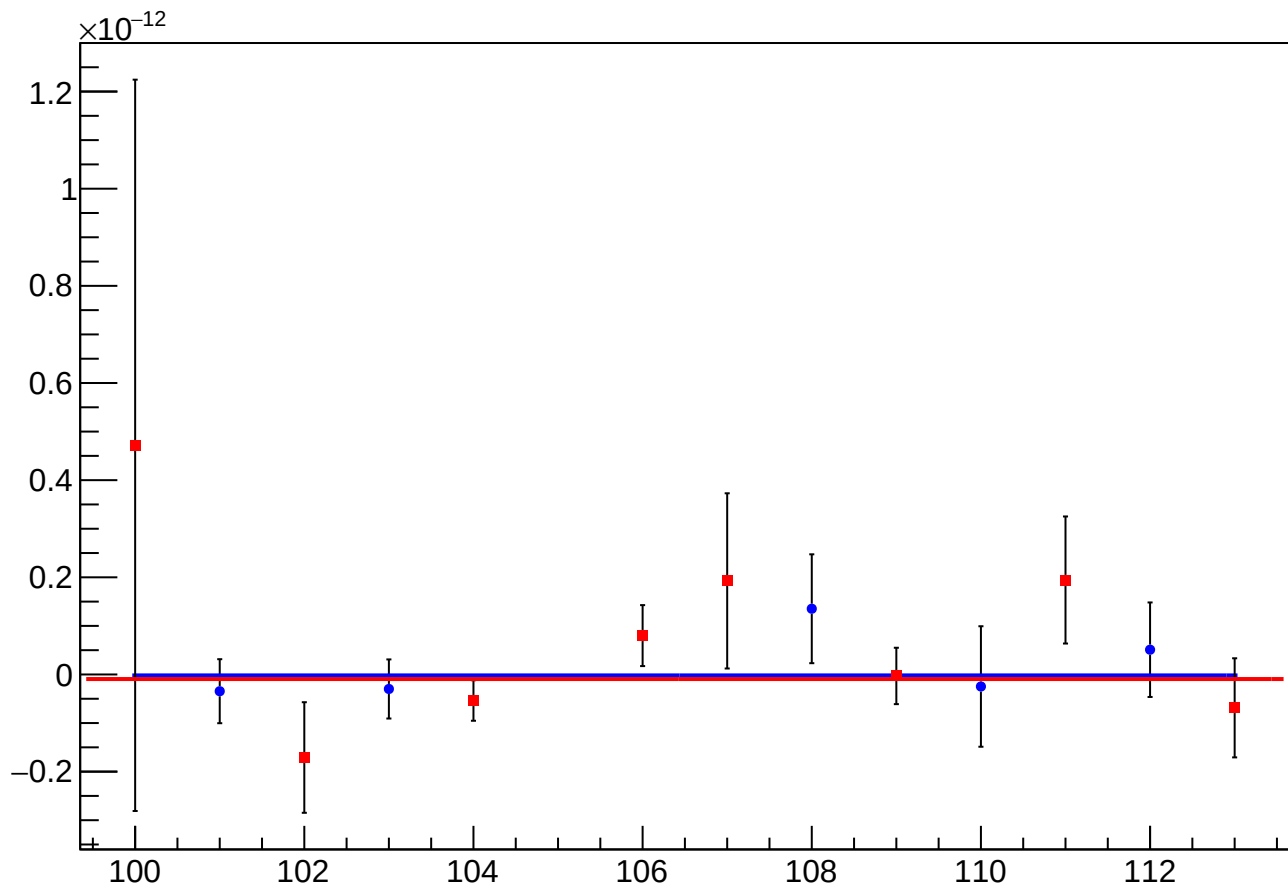
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.229+/-0.022  $\chi^2/\text{NDF}$ : 3921046.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.6/7

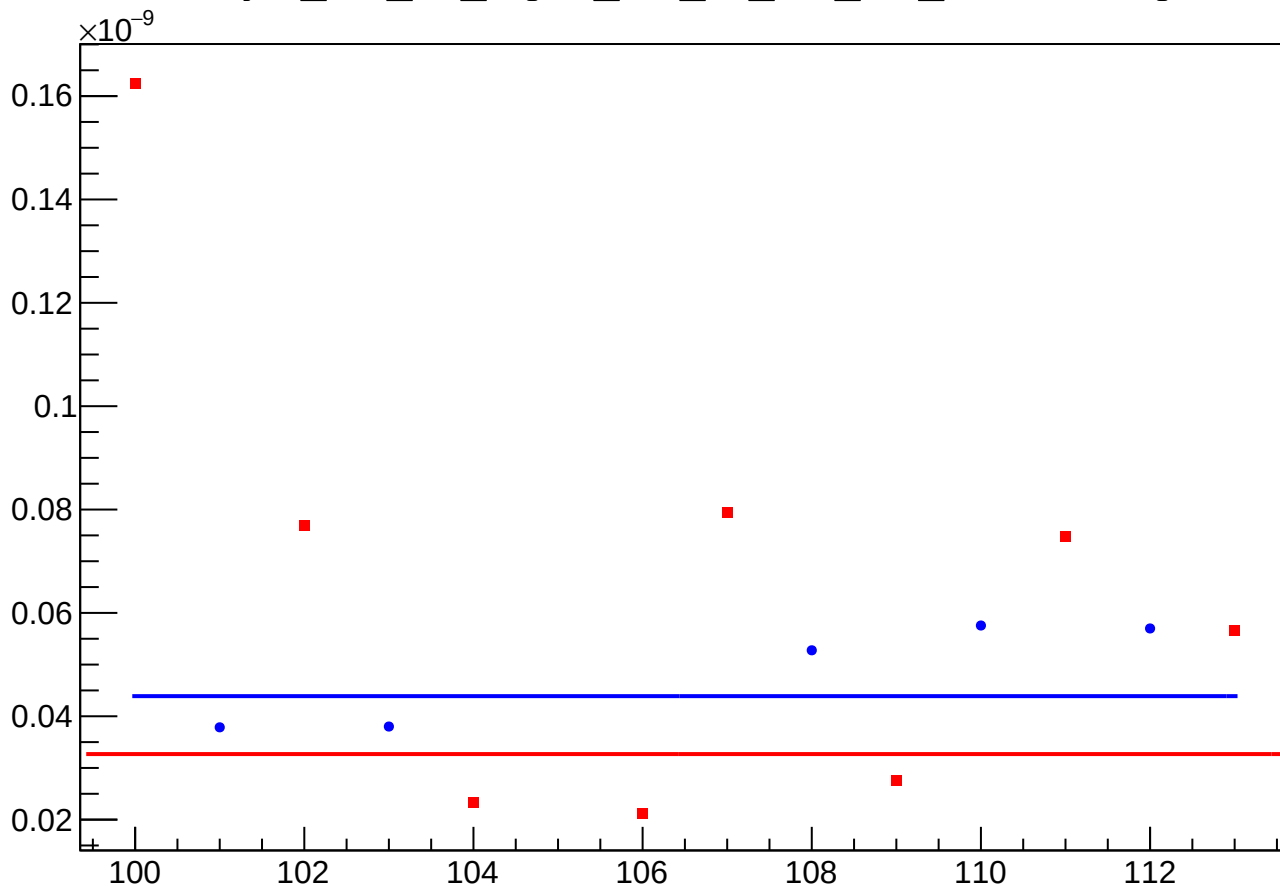
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 108519.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 998039.7/7

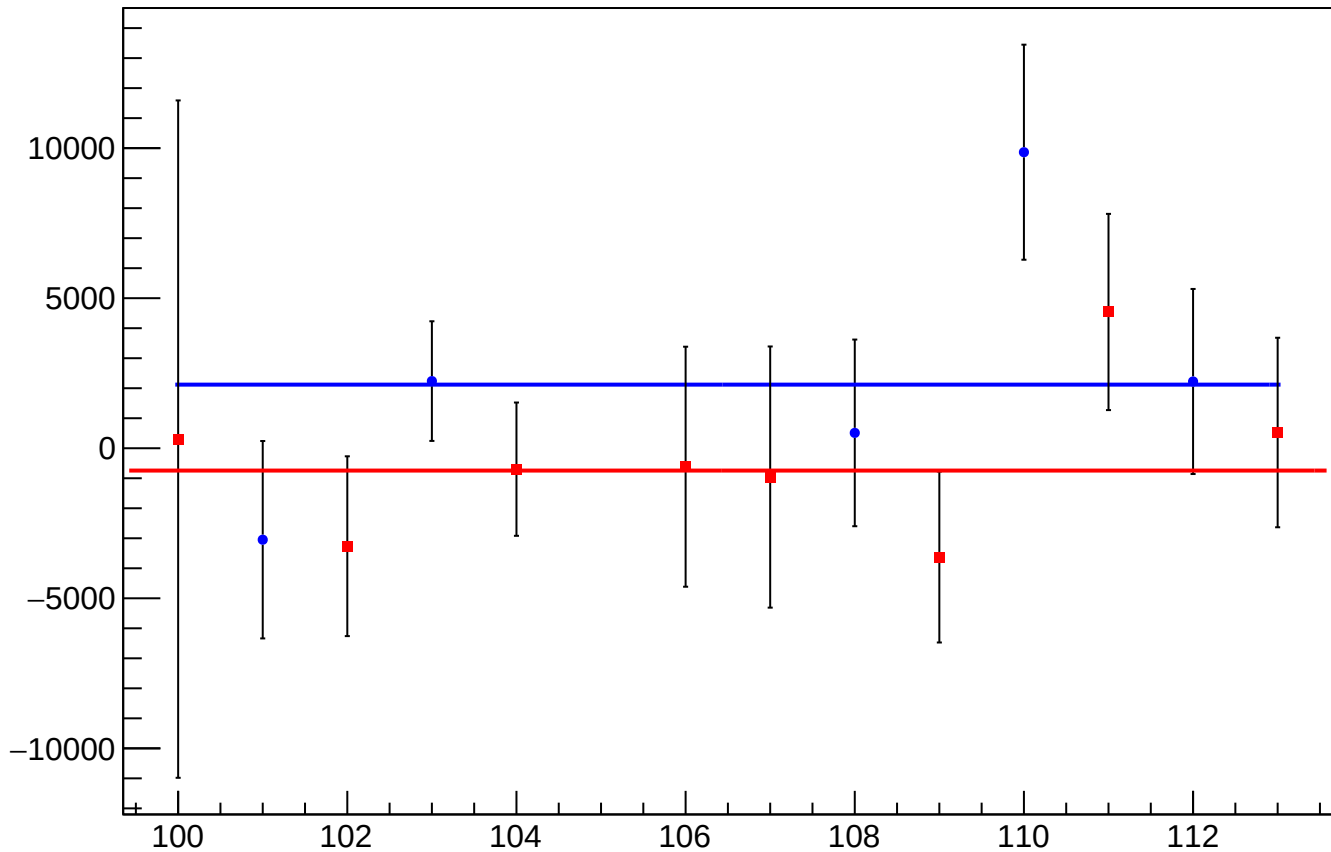
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1229067.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_avg\_mean vs Slug



Right In: 2119.797 $\pm$ 1259.310  $\chi^2$ /NDF: 7.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -743.603 $\pm$ 1151.297  $\chi^2$ /NDF: 4.5/7

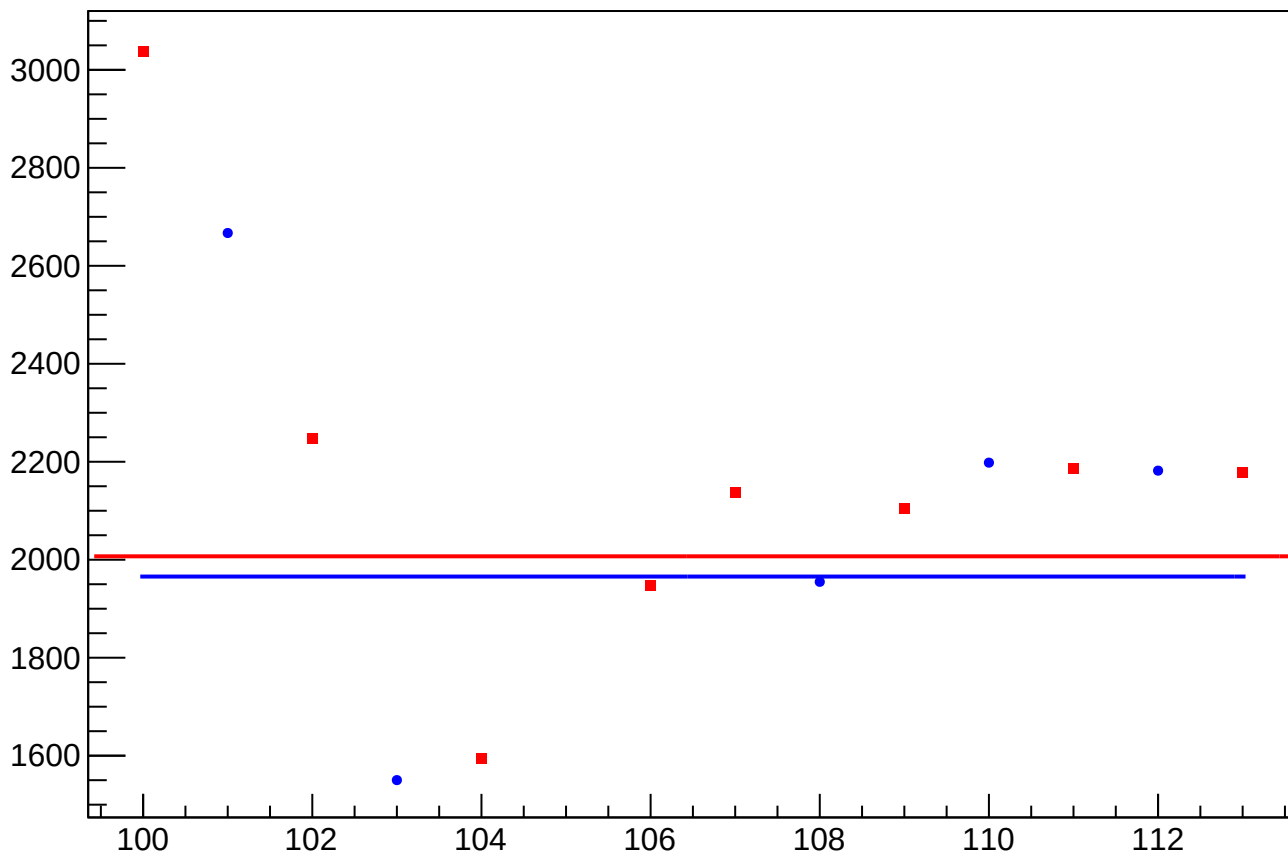
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 560.052 $\pm$ 849.715  $\chi^2$ /NDF: 14.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 1965.676+/-0.890  $\chi^2/\text{NDF}$ : 196110.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2006.980+/-0.809  $\chi^2/\text{NDF}$ : 114809.8/7

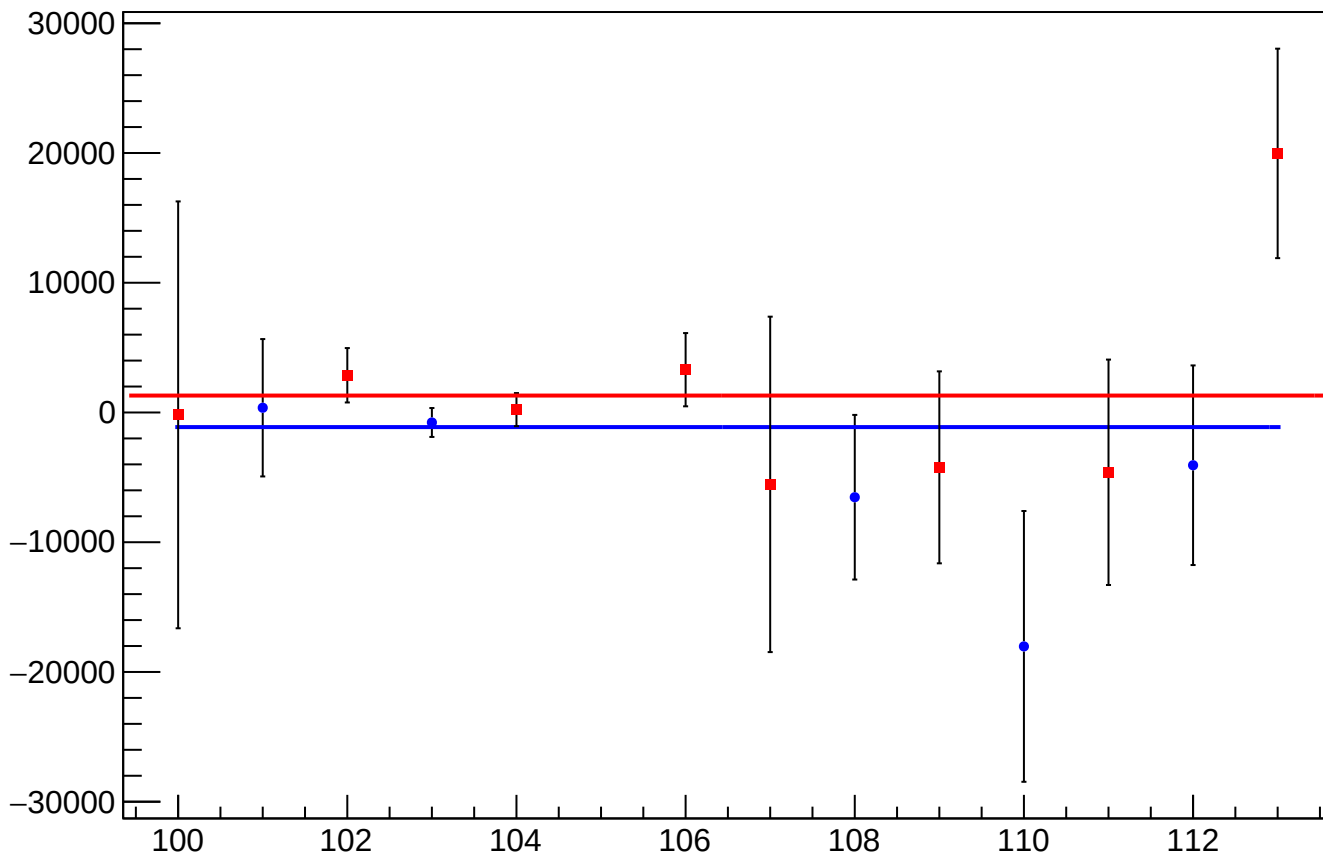
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1988.300+/-0.599  $\chi^2/\text{NDF}$ : 312098.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_reg\_correction\_mean vs Slug



Right In: -1125.748+/-1058.904  $\chi^2$ /NDF: 3.7/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1304.623+/-988.119  $\chi^2$ /NDF: 8.4/7

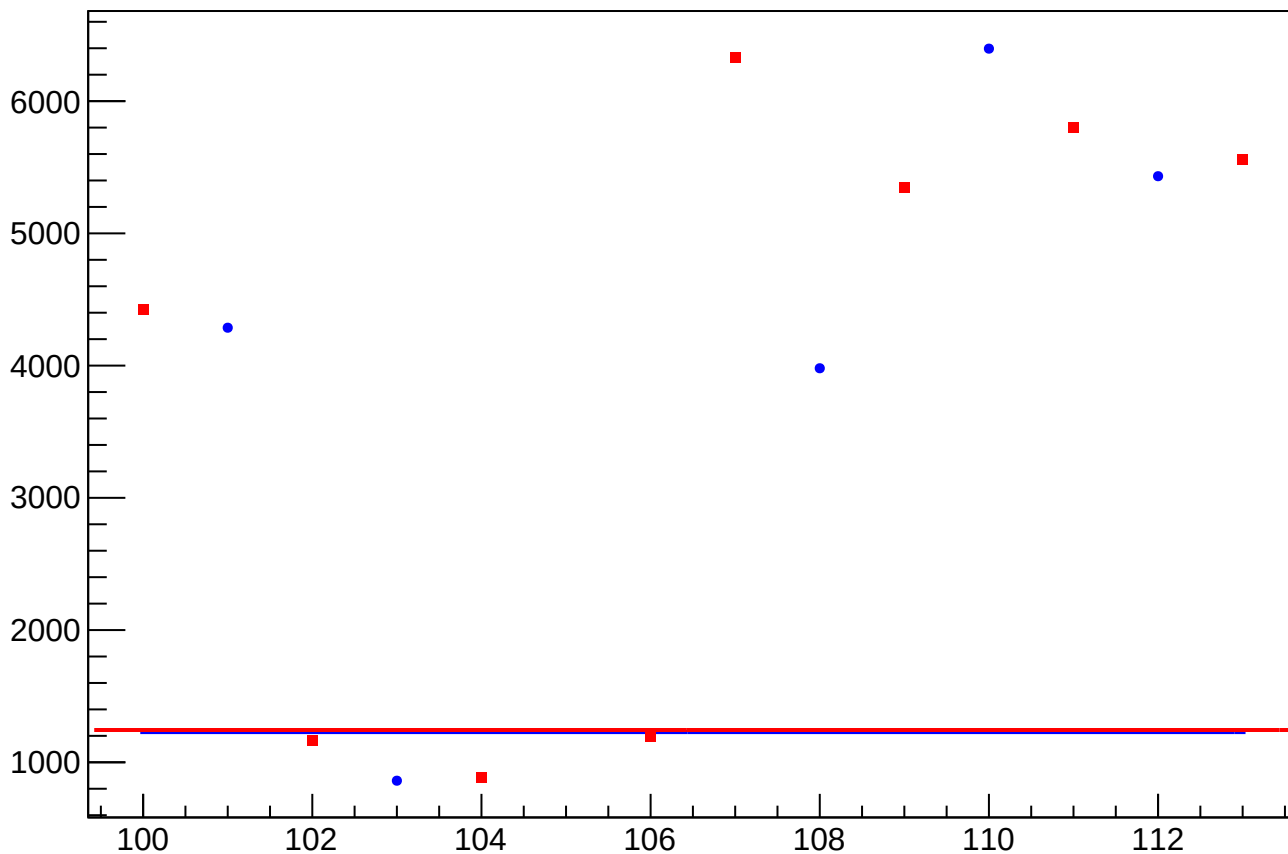
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 173.378+/-722.435  $\chi^2$ /NDF: 14.9/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_avg\_reg\_correction\_rms vs Slug



Right In: 1228.420+/-0.749  $\chi^2/\text{NDF}$ : 2348951.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1244.214+/-0.699  $\chi^2/\text{NDF}$ : 2284233.4/7

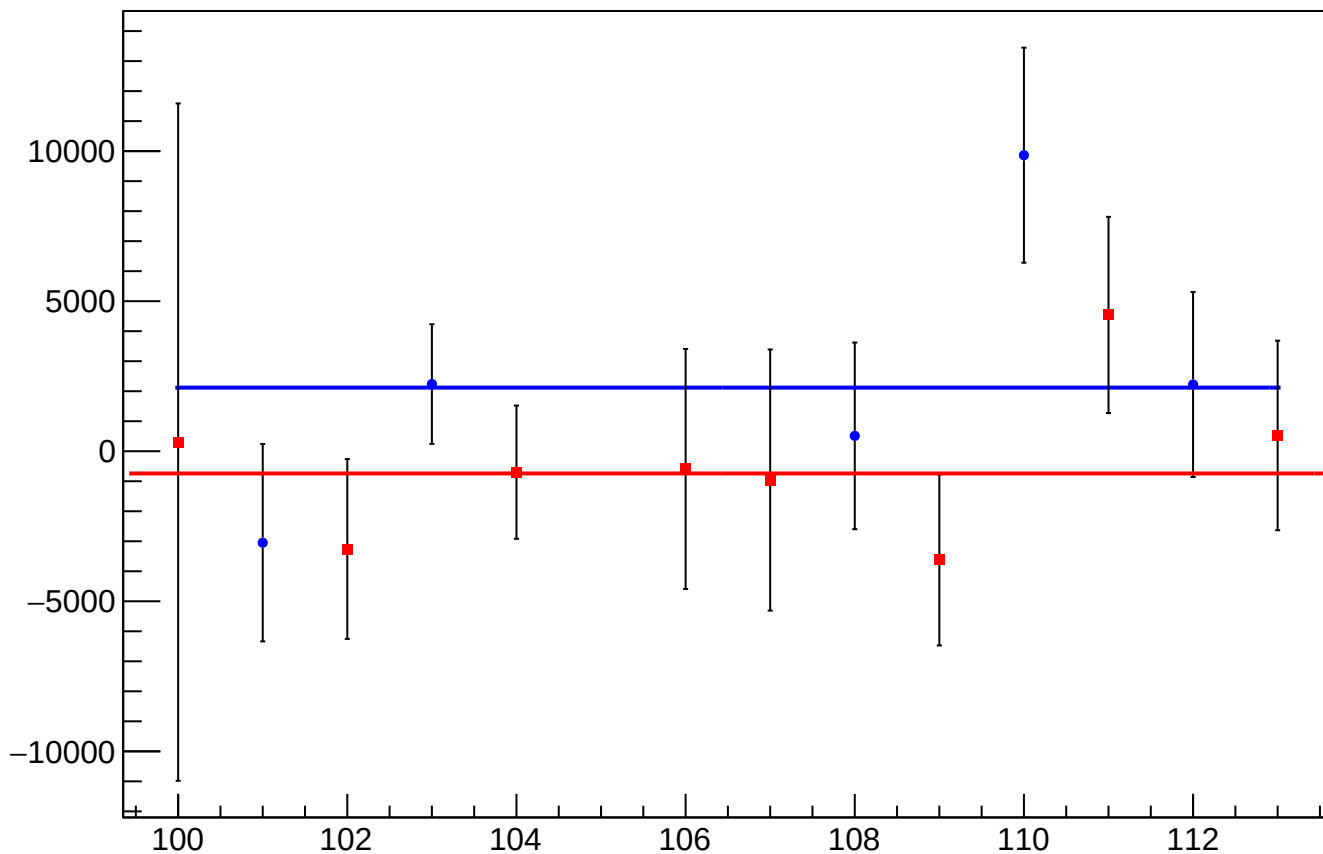
All: 1236.863+/-0.511  $\chi^2/\text{NDF}$ : 4633422.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atl1r2\_avg\_mean vs Slug



Right In: 2120.046+/-1259.310  $\chi^2/\text{NDF}$ : 7.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -740.374+/-1151.301  $\chi^2/\text{NDF}$ : 4.5/7

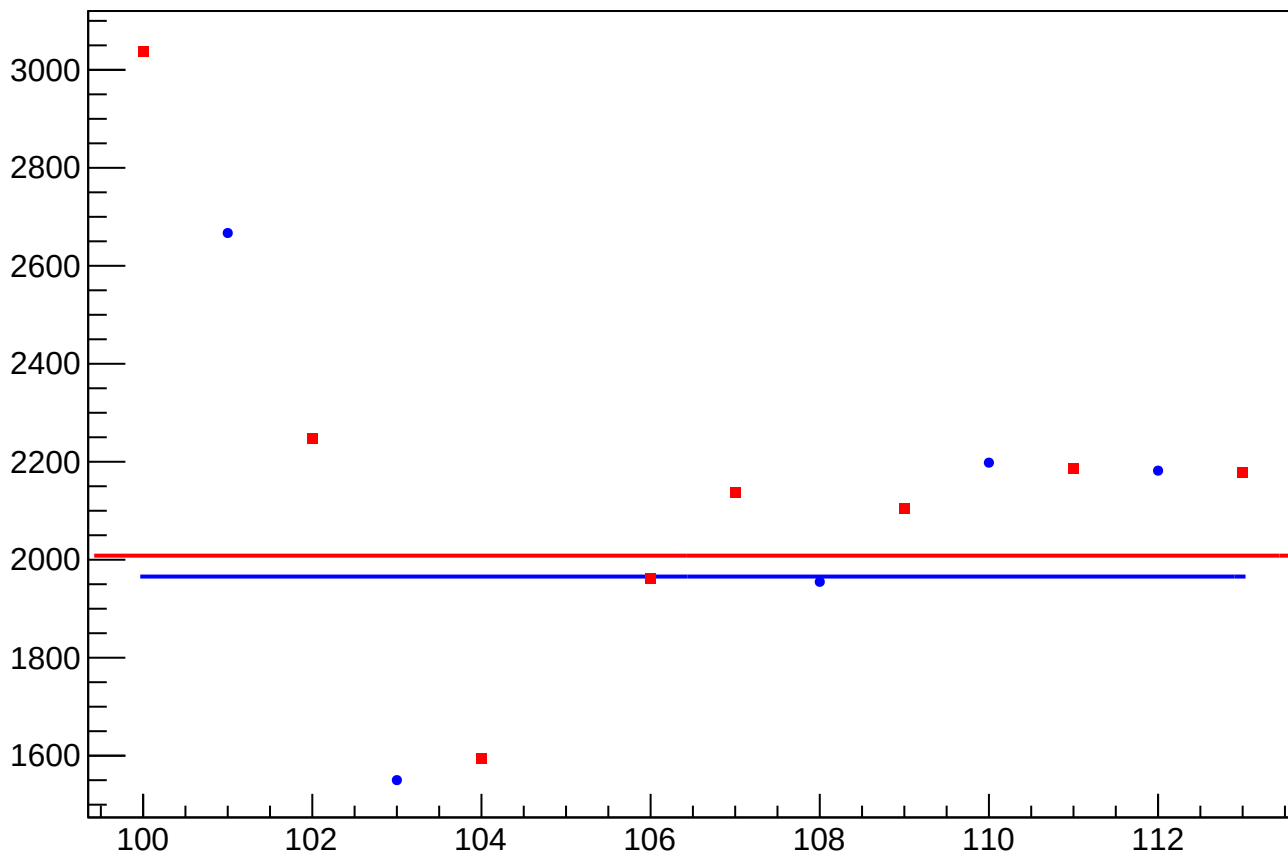
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 561.929+/-849.716  $\chi^2/\text{NDF}$ : 14.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 1965.676 $\pm$ 0.890  $\chi^2$ /NDF: 196109.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2008.324 $\pm$ 0.810  $\chi^2$ /NDF: 114599.5/7

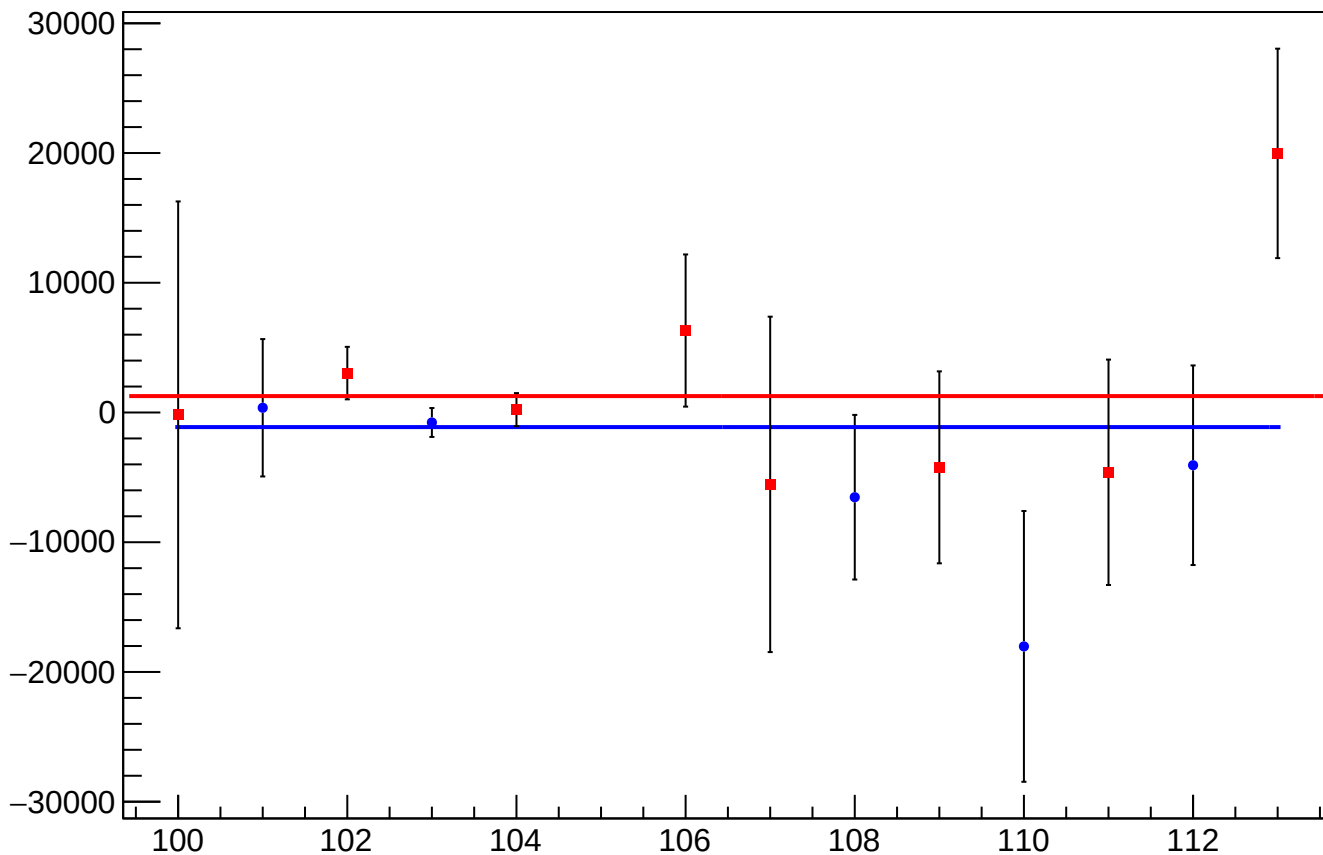
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1989.024 $\pm$ 0.599  $\chi^2$ /NDF: 311965.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_avg\_cor\_correction\_mean vs Slug



Right In: -1125.133+/-1058.834  $\chi^2/\text{NDF}$ : 3.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1264.387+/-1028.941  $\chi^2/\text{NDF}$ : 8.8/7

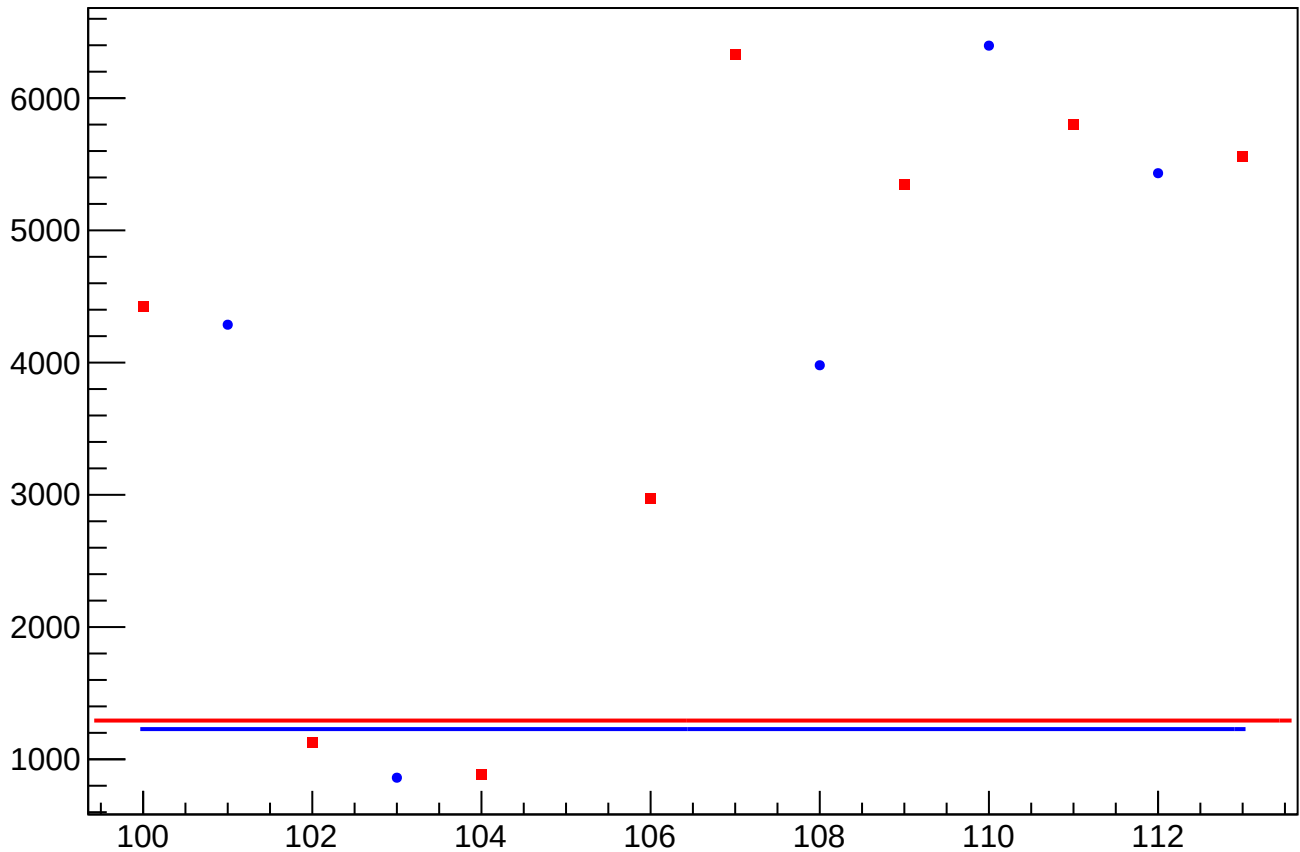
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 103.833+/-737.913  $\chi^2/\text{NDF}$ : 15.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_cor\_correction\_rms vs Slug



Right In: 1228.320+/-0.749  $\chi^2/\text{NDF}$ : 2349049.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

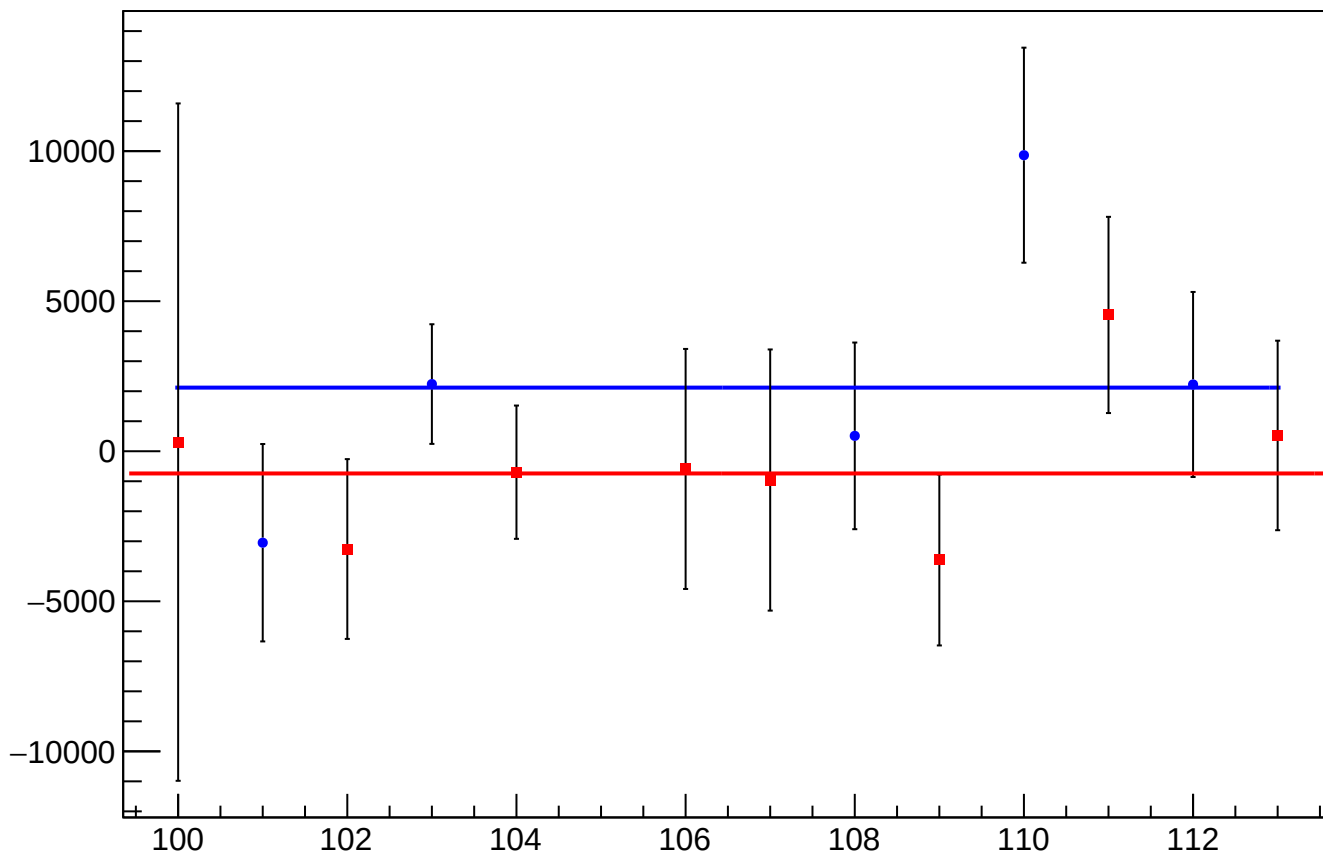
Right Out: 1292.933+/-0.728  $\chi^2/\text{NDF}$ : 2455739.8/7

All: 1261.551+/-0.522  $\chi^2/\text{NDF}$ : 4808619.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl1r2\_avg\_mean vs Slug



Right In: 2120.046+/-1259.310  $\chi^2/\text{NDF}$ : 7.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -740.374+/-1151.301  $\chi^2/\text{NDF}$ : 4.5/7

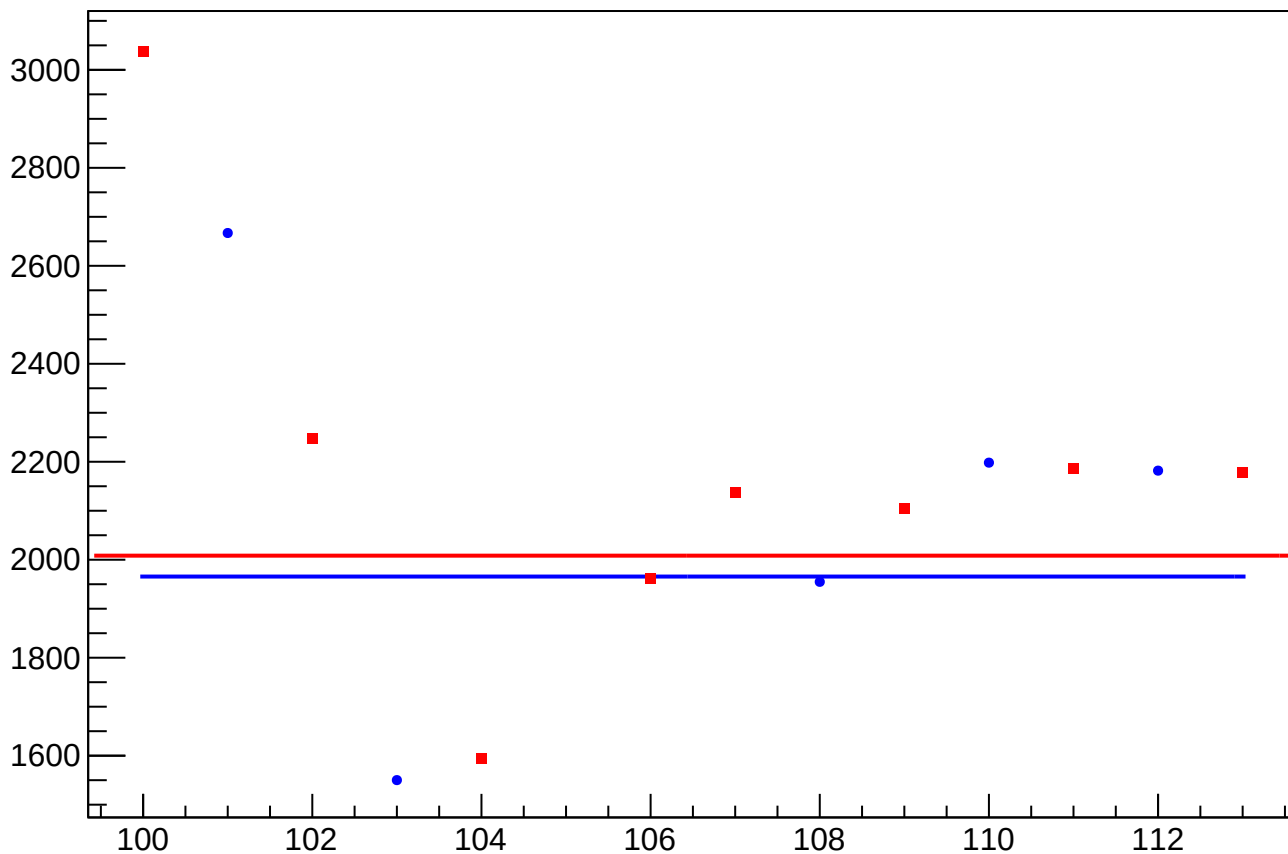
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 561.929+/-849.716  $\chi^2/\text{NDF}$ : 14.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 1965.676 $\pm$ 0.890  $\chi^2$ /NDF: 196109.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2008.324 $\pm$ 0.810  $\chi^2$ /NDF: 114599.5/7

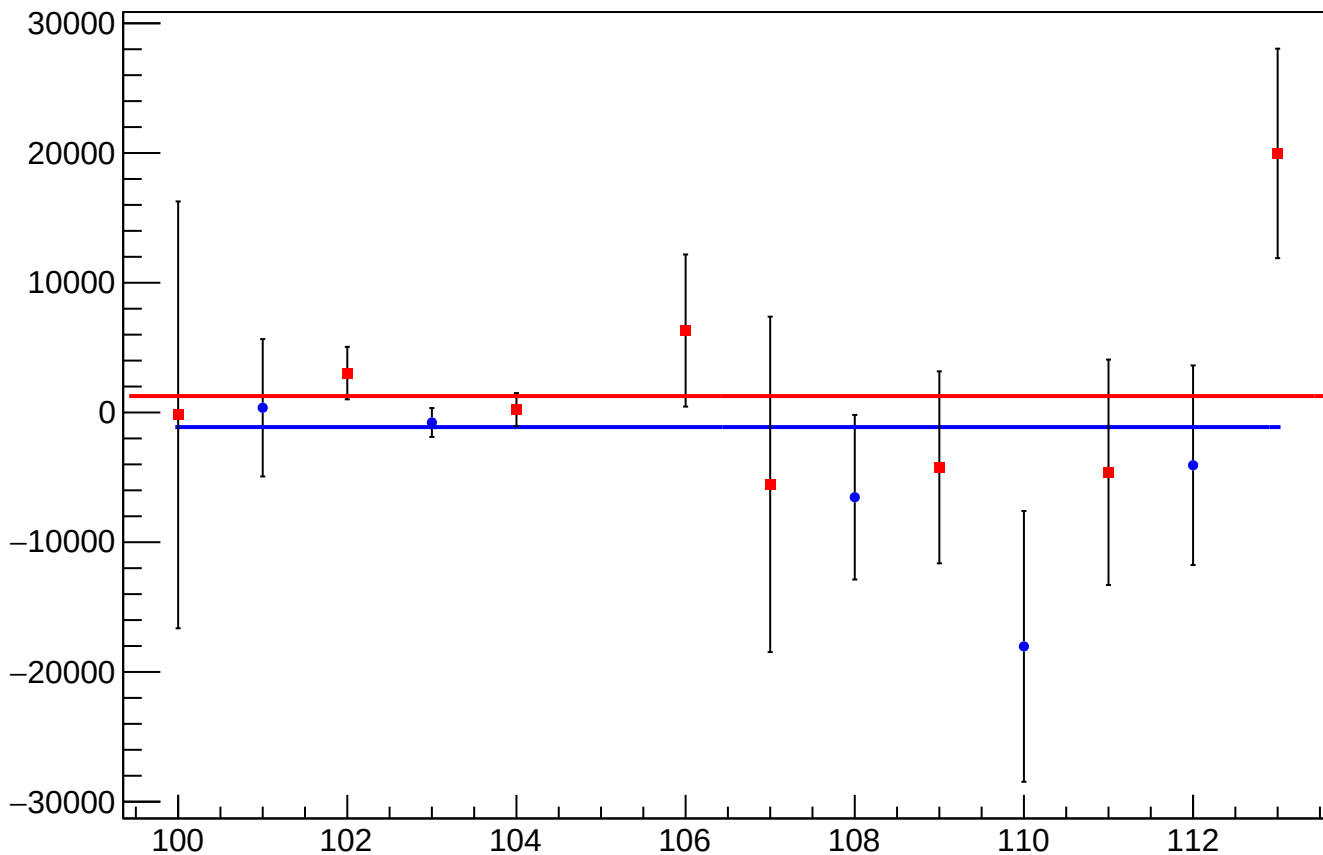
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1989.024 $\pm$ 0.599  $\chi^2$ /NDF: 311965.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -1125.133+/-1058.834  $\chi^2/\text{NDF}$ : 3.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1264.387+/-1028.941  $\chi^2/\text{NDF}$ : 8.8/7

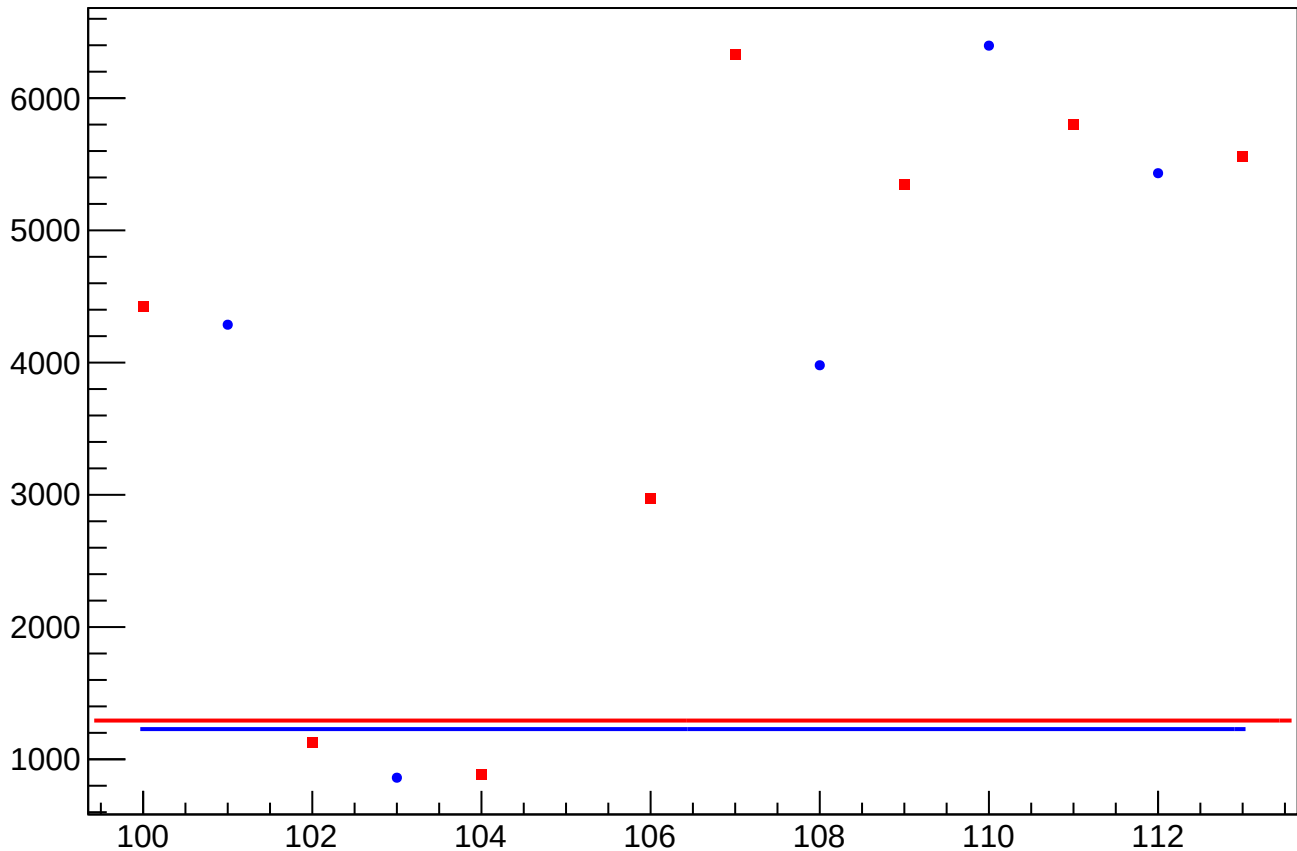
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 103.833+/-737.913  $\chi^2/\text{NDF}$ : 15.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1228.320+/-0.749  $\chi^2/\text{NDF}$ : 2349049.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1292.933+/-0.728  $\chi^2/\text{NDF}$ : 2455739.8/7

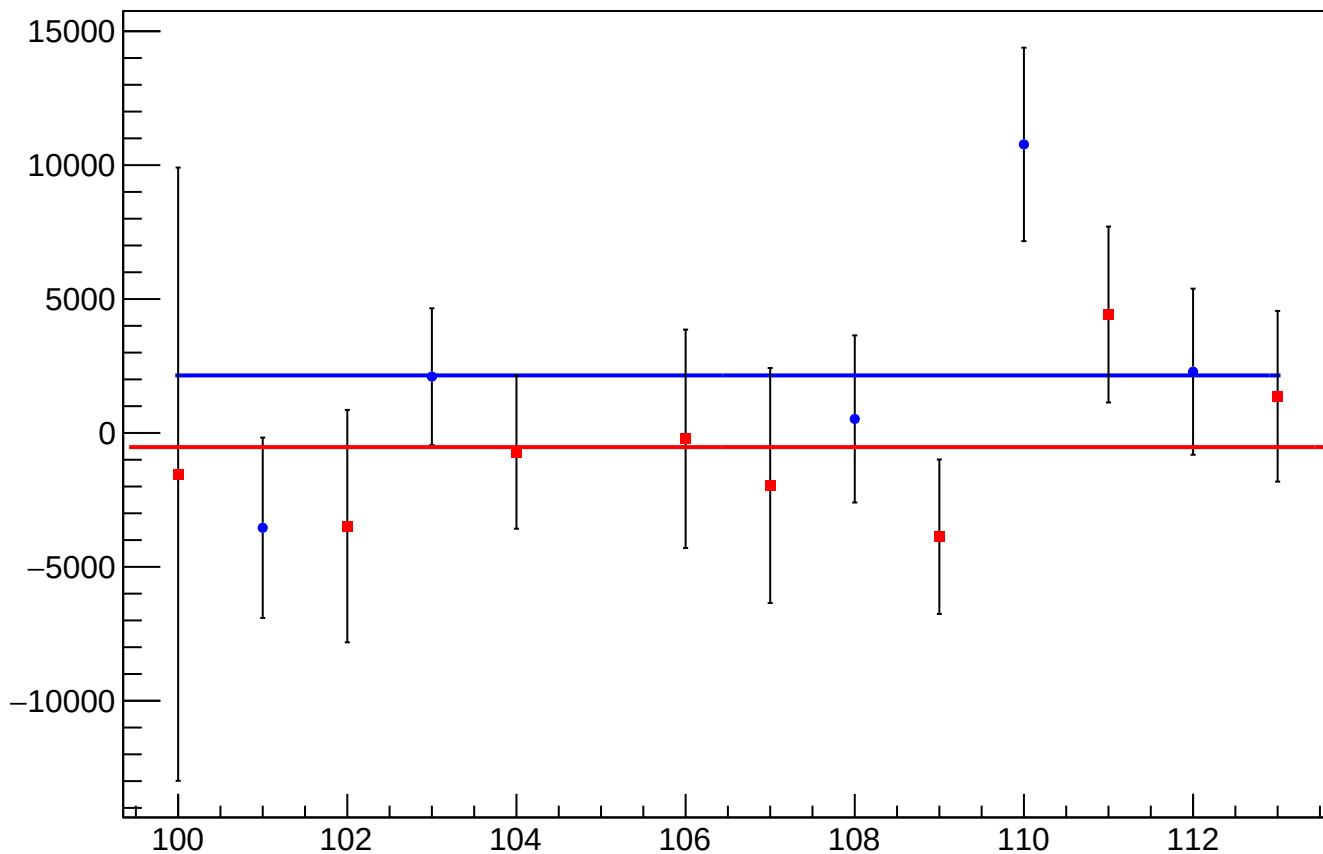
All: 1261.551+/-0.522  $\chi^2/\text{NDF}$ : 4808619.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_atl1r2\_avg\_mean vs Slug



Right In: 2148.464+/-1379.786  $\chi^2/\text{NDF}$ : 8.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -528.654+/-1283.712  $\chi^2/\text{NDF}$ : 4.6/7

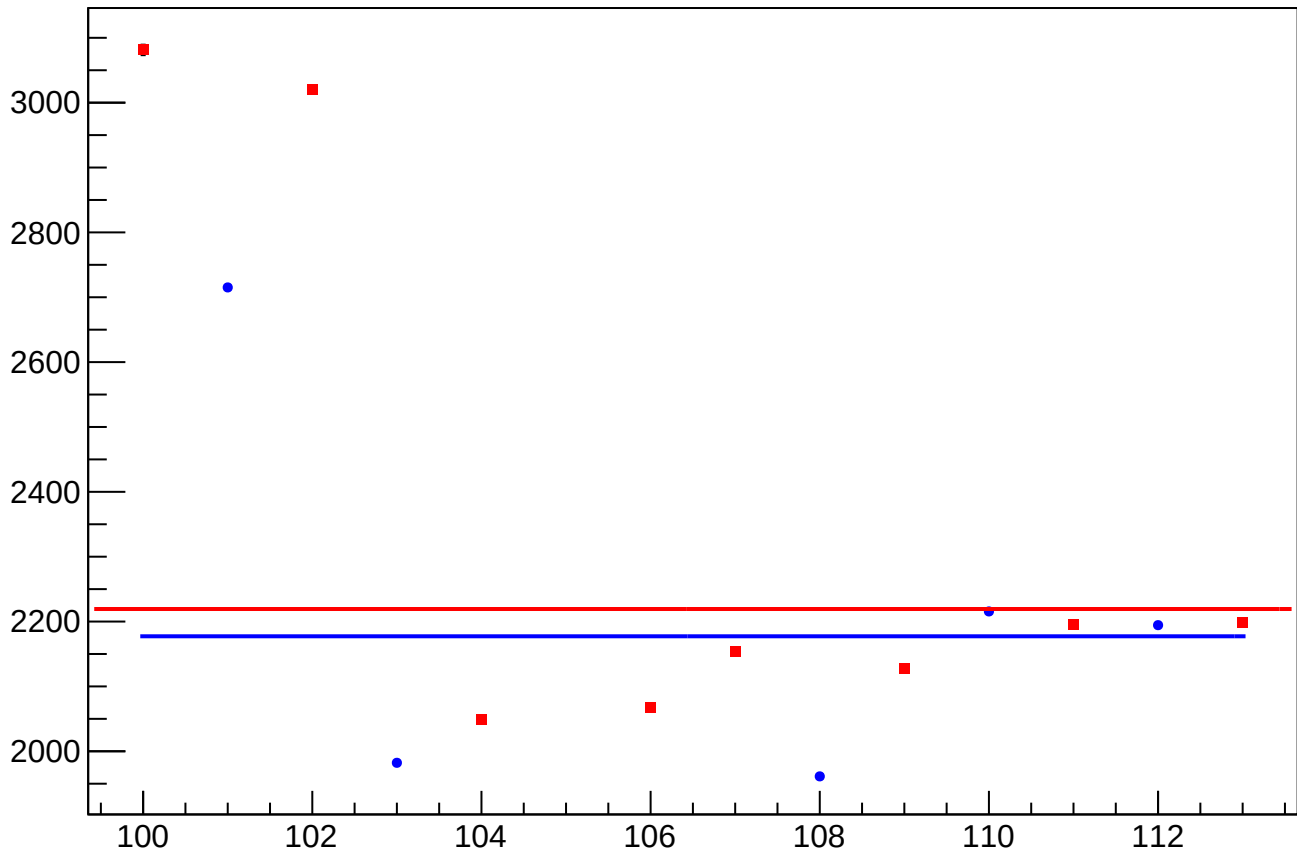
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 713.466+/-939.852  $\chi^2/\text{NDF}$ : 15.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 2177.284+/-0.976  $\chi^2/\text{NDF}$ : 72593.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2219.349+/-0.905  $\chi^2/\text{NDF}$ : 92270.7/7

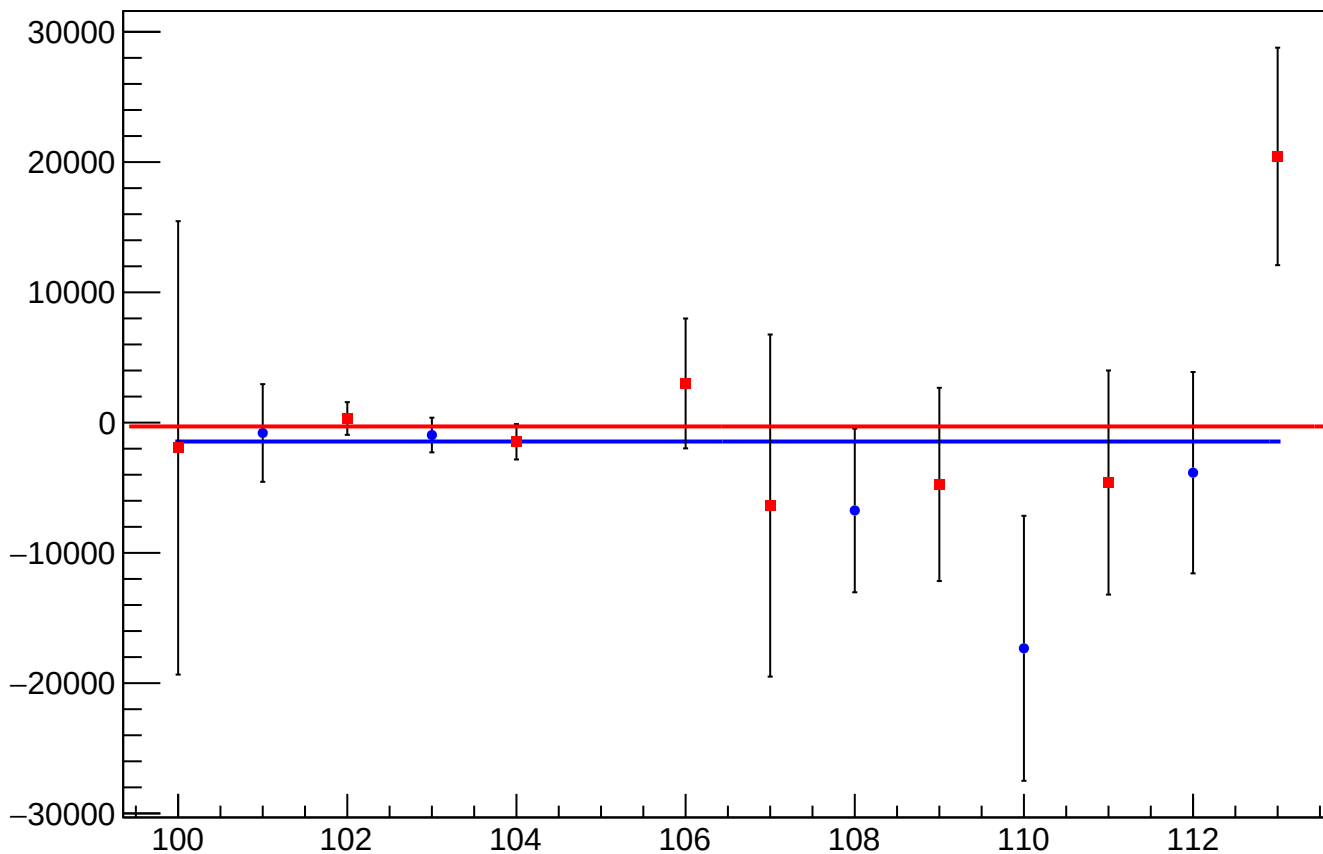
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2199.886+/-0.664  $\chi^2/\text{NDF}$ : 165862.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_dit\_correction\_mean vs Slug



Right In: -1450.168+/-1205.718  $\chi^2/\text{NDF}$ : 3.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -293.966+/-886.146  $\chi^2/\text{NDF}$ : 8.4/7

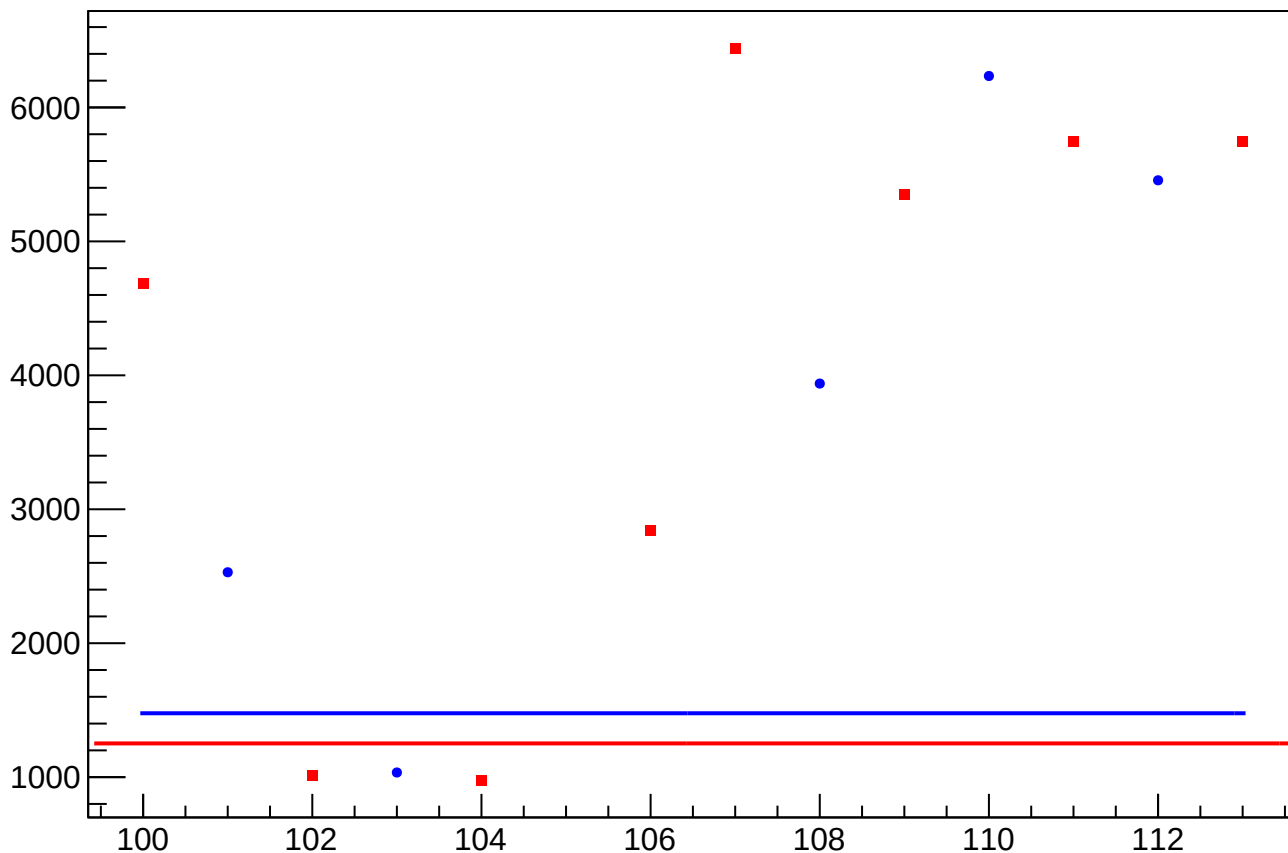
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -699.463+/-714.041  $\chi^2/\text{NDF}$ : 12.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_dit\_correction\_rms vs Slug



Right In: 1477.037+/-0.853  $\chi^2/\text{NDF}$ : 1653458.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1251.819+/-0.627  $\chi^2/\text{NDF}$ : 2488034.6/7

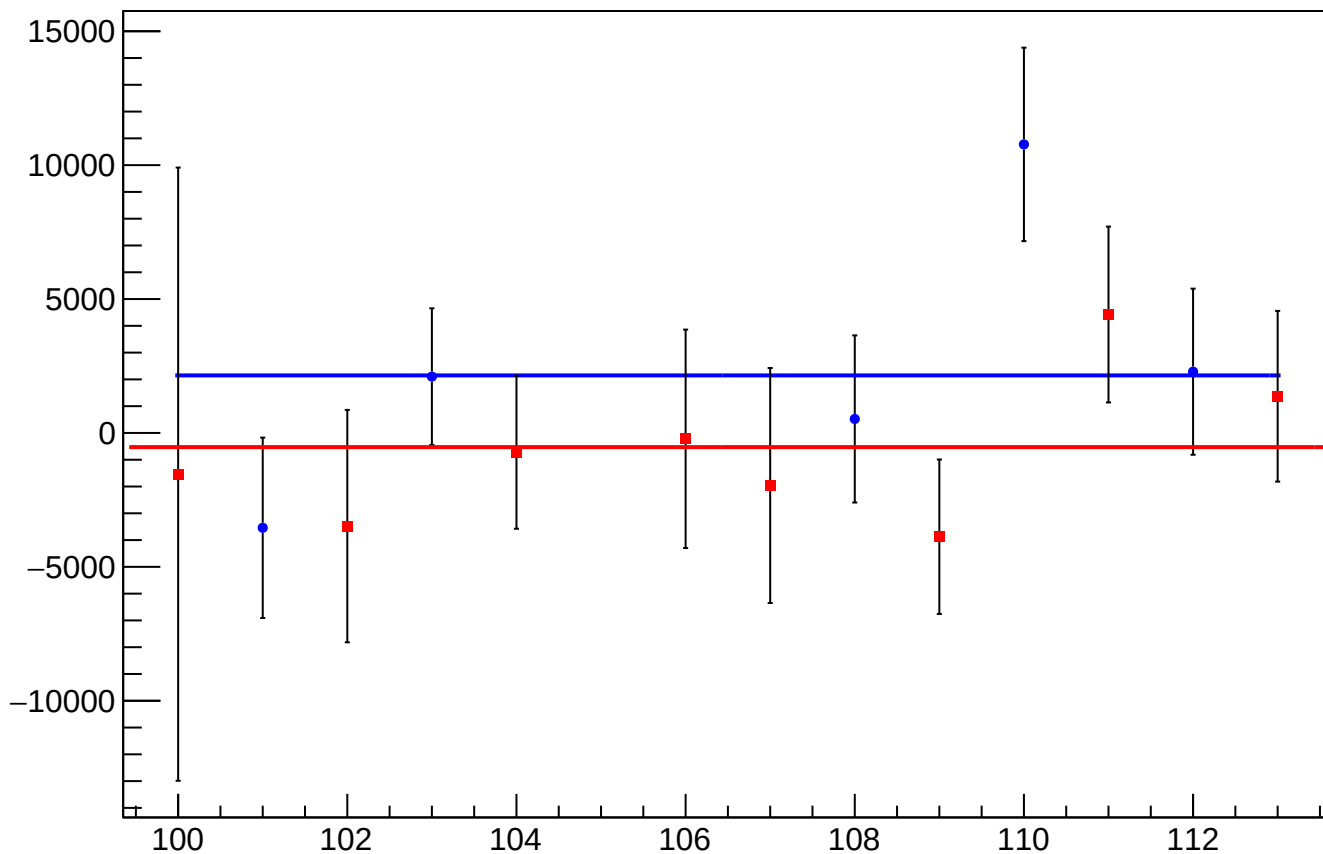
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1330.806+/-0.505  $\chi^2/\text{NDF}$ : 4186801.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl1r2\_avg\_mean vs Slug



Right In: 2148.458 $\pm$ 1379.785  $\chi^2$ /NDF: 8.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -528.657 $\pm$ 1283.712  $\chi^2$ /NDF: 4.6/7

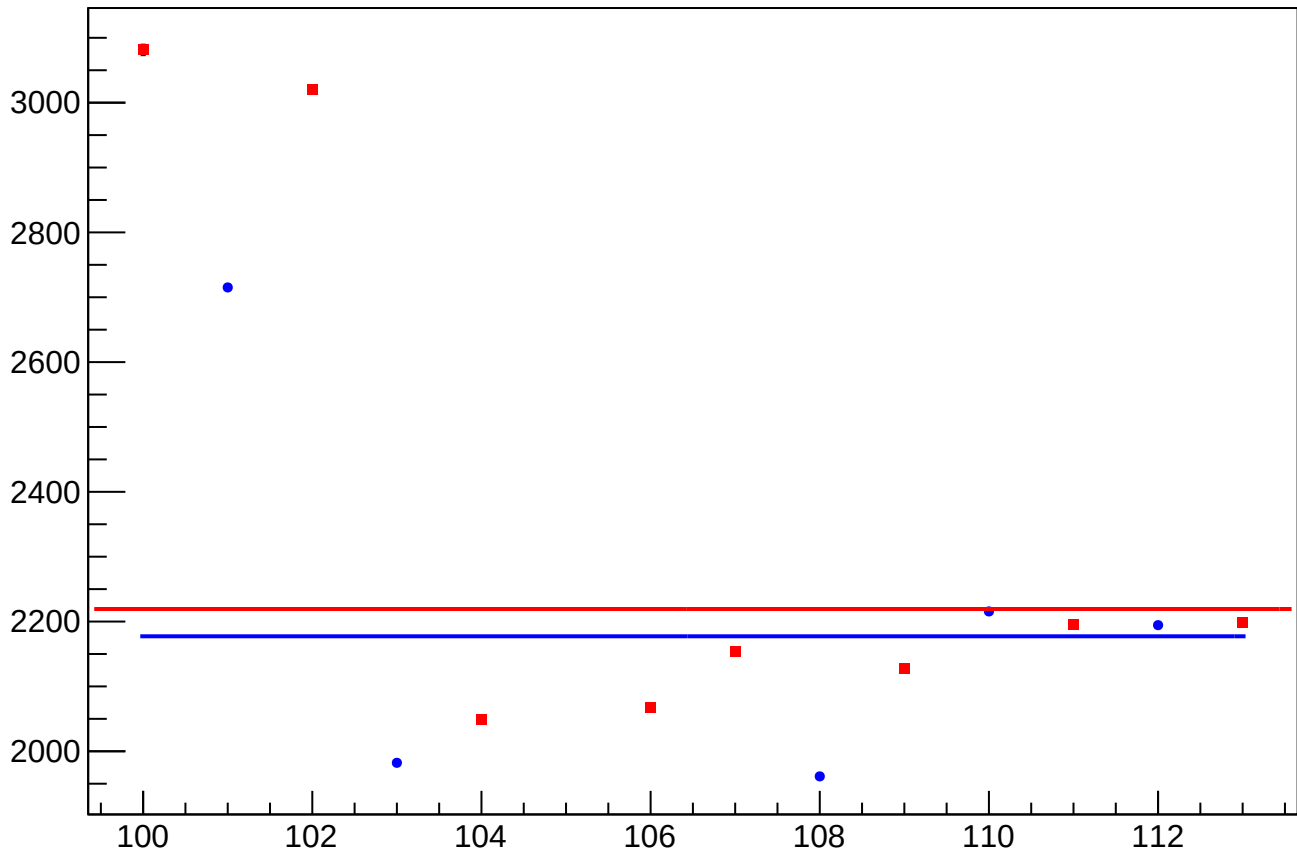
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 713.461 $\pm$ 939.852  $\chi^2$ /NDF: 15.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 2177.282 $\pm$ 0.976  $\chi^2$ /NDF: 72593.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2219.347 $\pm$ 0.905  $\chi^2$ /NDF: 92270.2/7

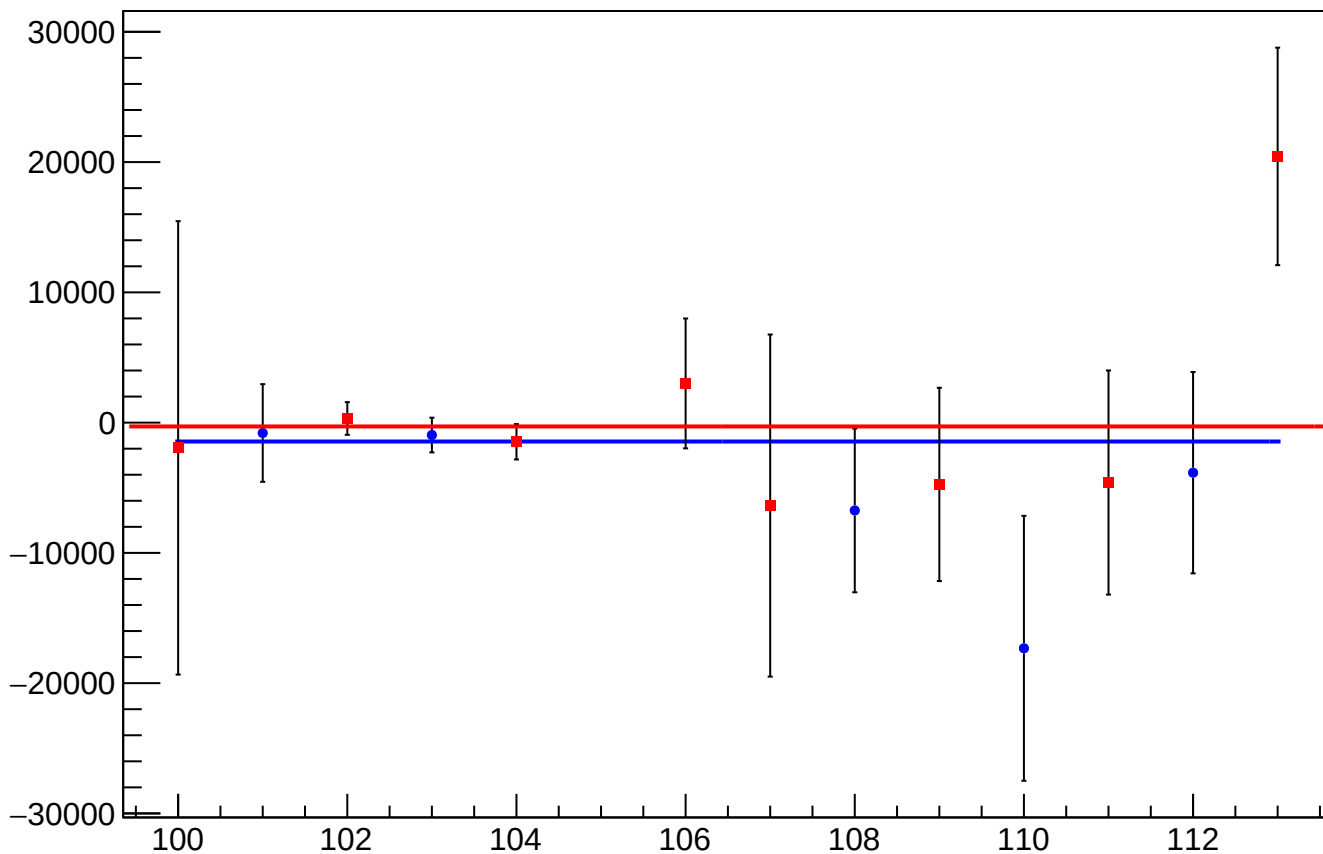
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2199.884 $\pm$ 0.664  $\chi^2$ /NDF: 165862.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -1450.174 $\pm$ 1205.718  $\chi^2$ /NDF: 3.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -293.960 $\pm$ 886.146  $\chi^2$ /NDF: 8.4/7

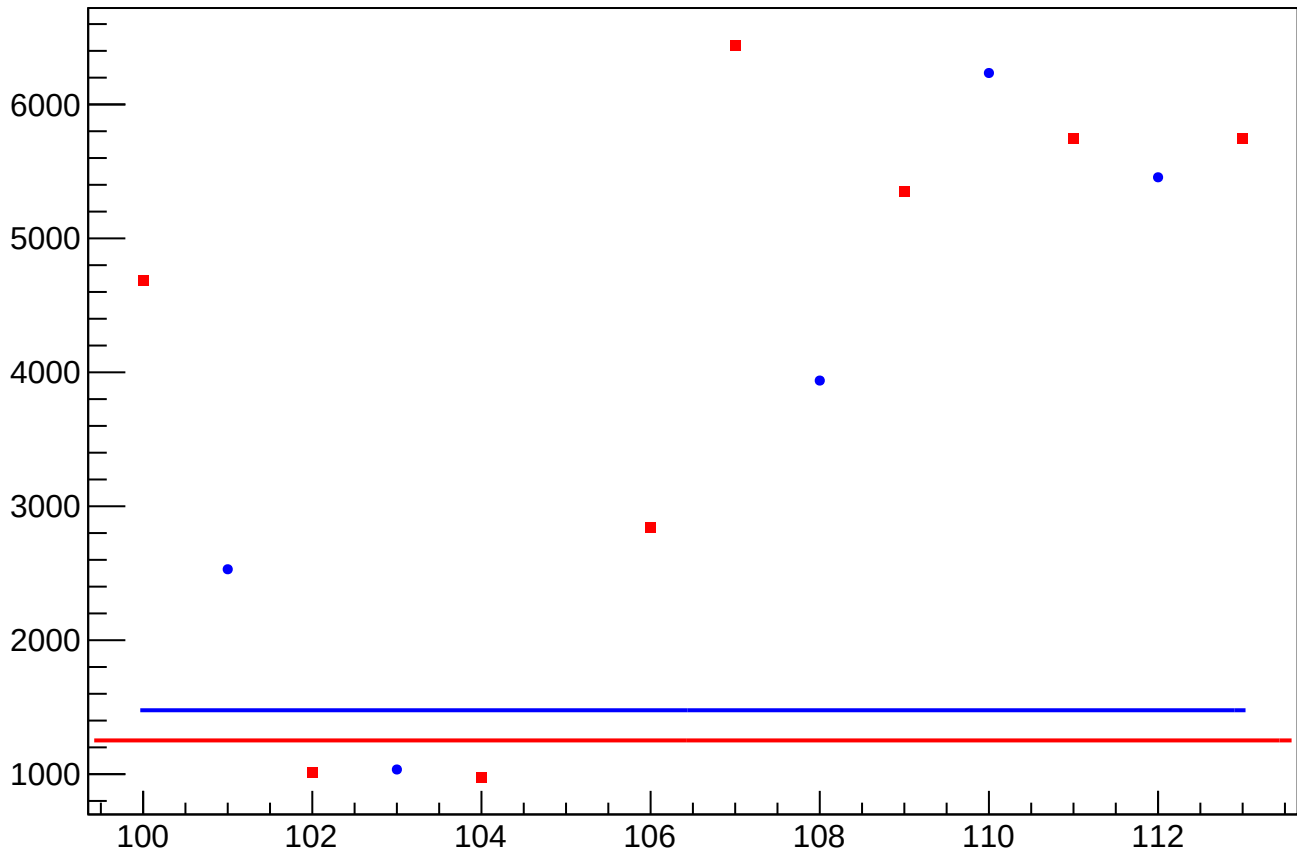
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -699.461 $\pm$ 714.040  $\chi^2$ /NDF: 12.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1477.036+/-0.853  $\chi^2/\text{NDF}$ : 1653458.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1251.819+/-0.627  $\chi^2/\text{NDF}$ : 2488033.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

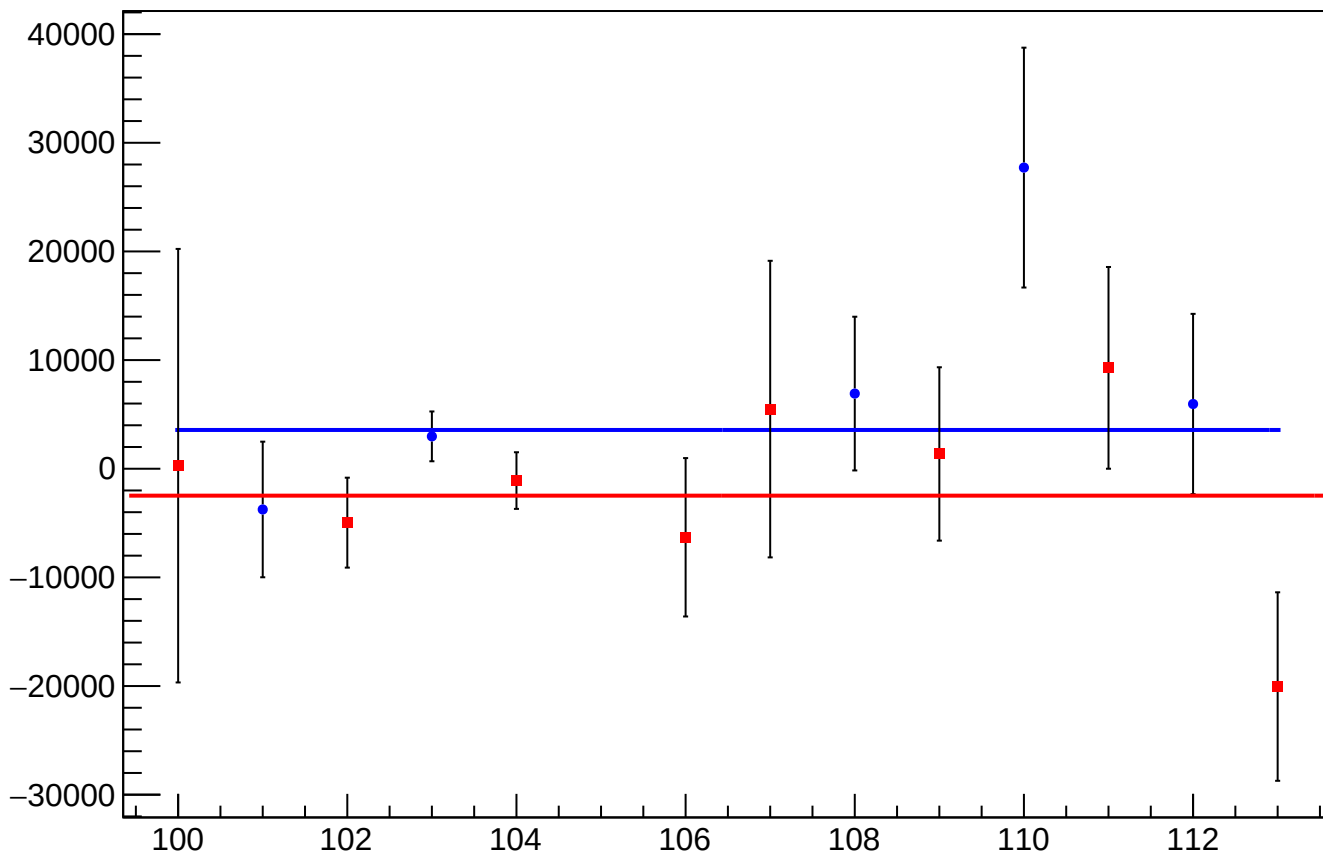
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1330.806+/-0.505  $\chi^2/\text{NDF}$ : 4186799.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl1r2\_avg\_mean vs Slug



Right In: 3567.838 $\pm$ 1965.796  $\chi^2$ /NDF: 6.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2477.341 $\pm$ 1914.405  $\chi^2$ /NDF: 7.2/7

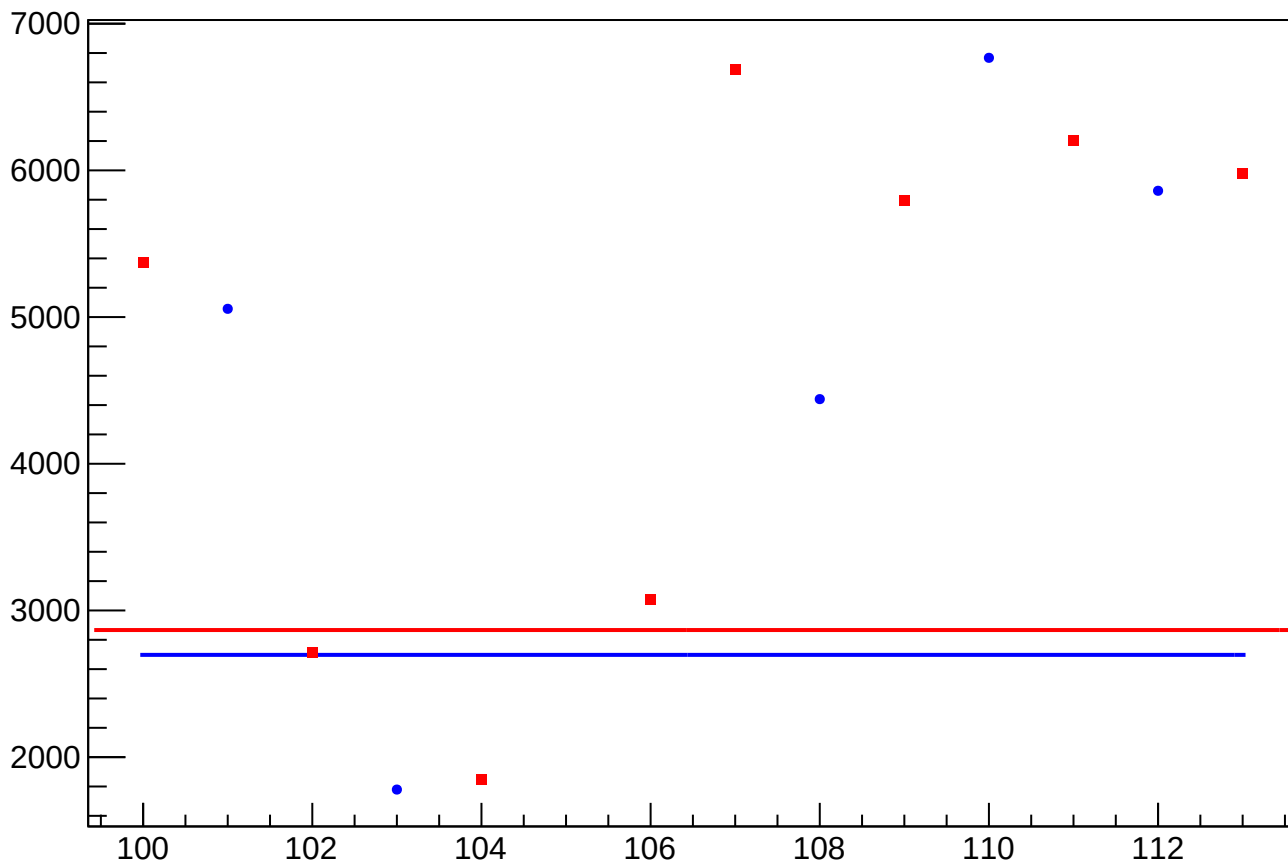
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 465.198 $\pm$ 1371.497  $\chi^2$ /NDF: 18.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_avg\_rms vs Slug



Right In: 2697.257+/-1.390  $\chi^2/\text{NDF}$ : 1291083.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

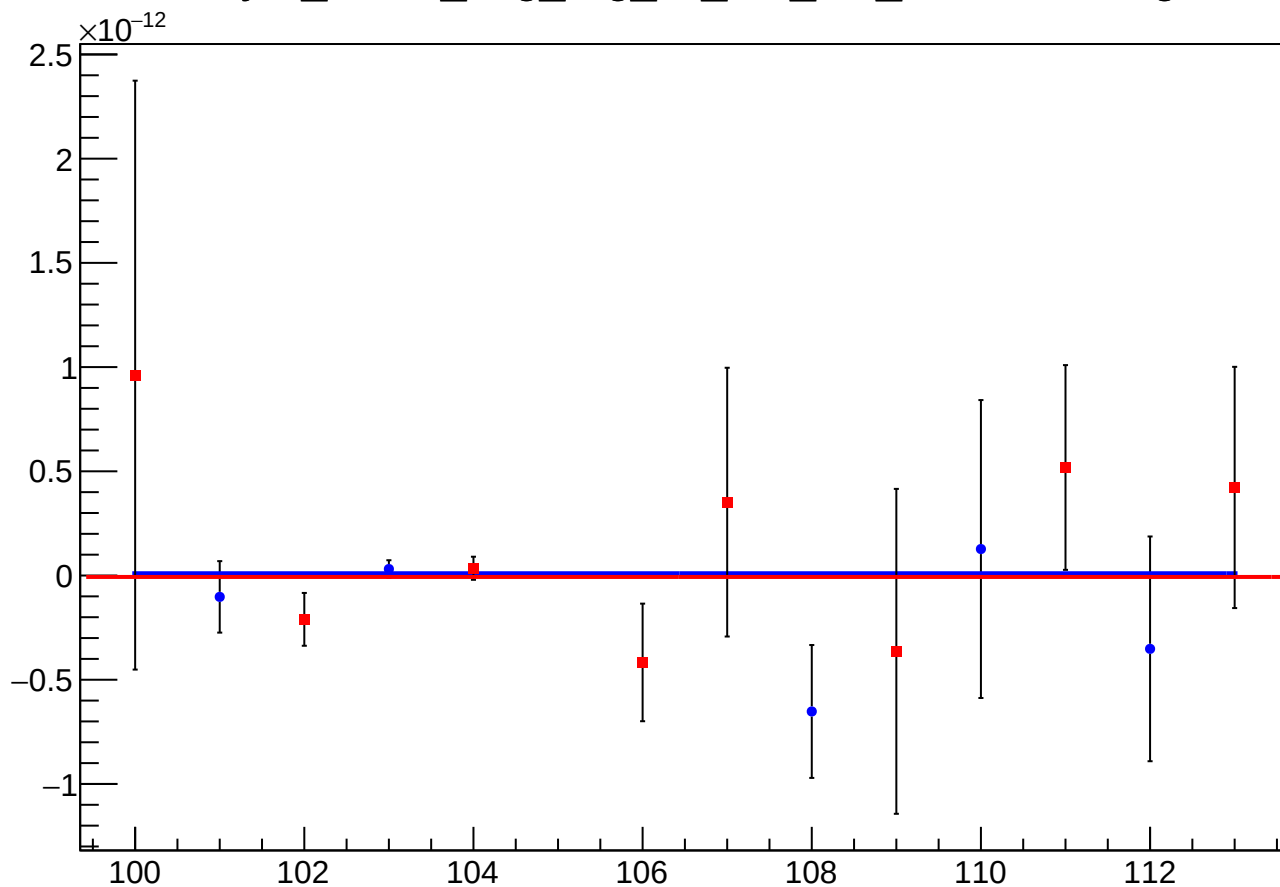
Right Out: 2866.544+/-1.333  $\chi^2/\text{NDF}$ : 1282459.2/7

All: 2785.426+/-0.962  $\chi^2/\text{NDF}$ : 2581267.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.9/7

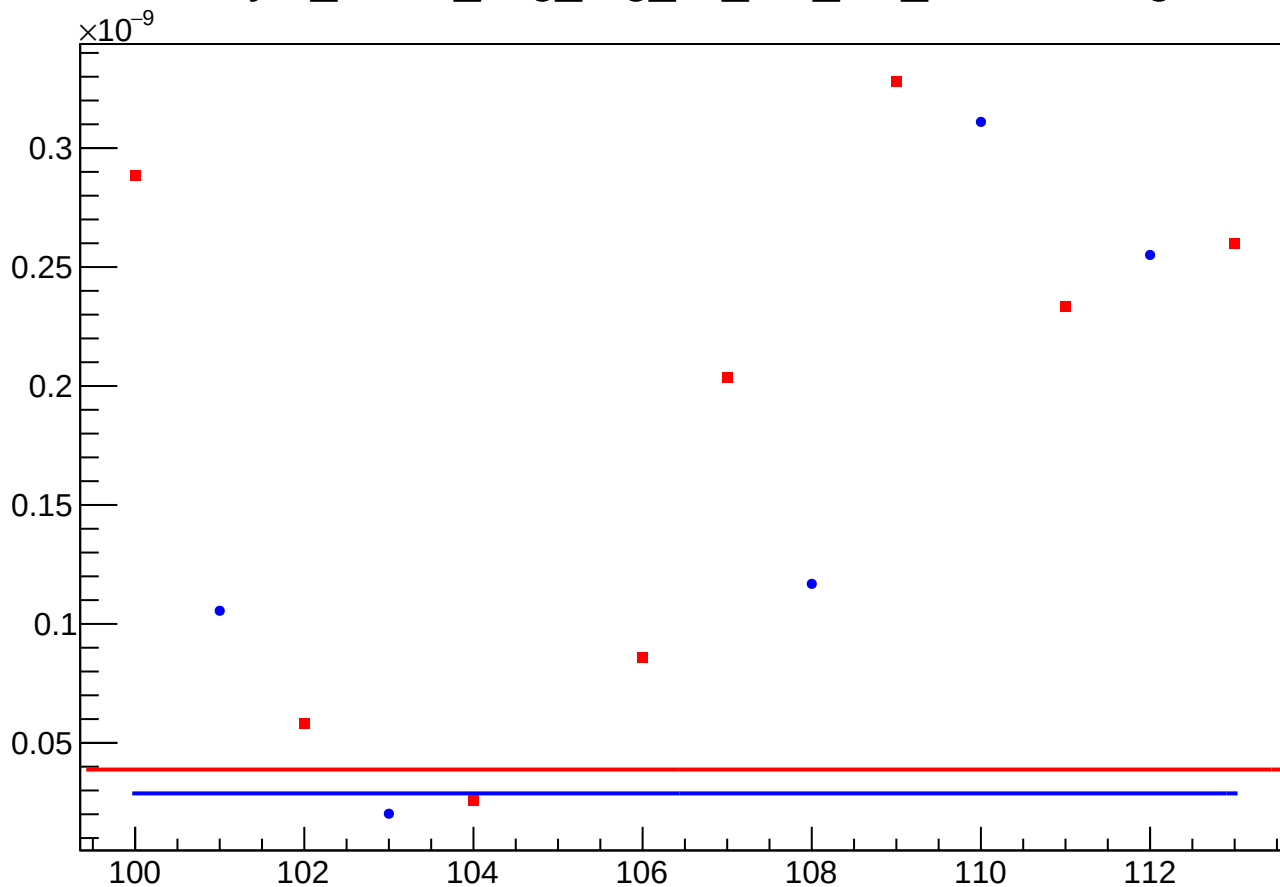
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1300048.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1289940.5/7

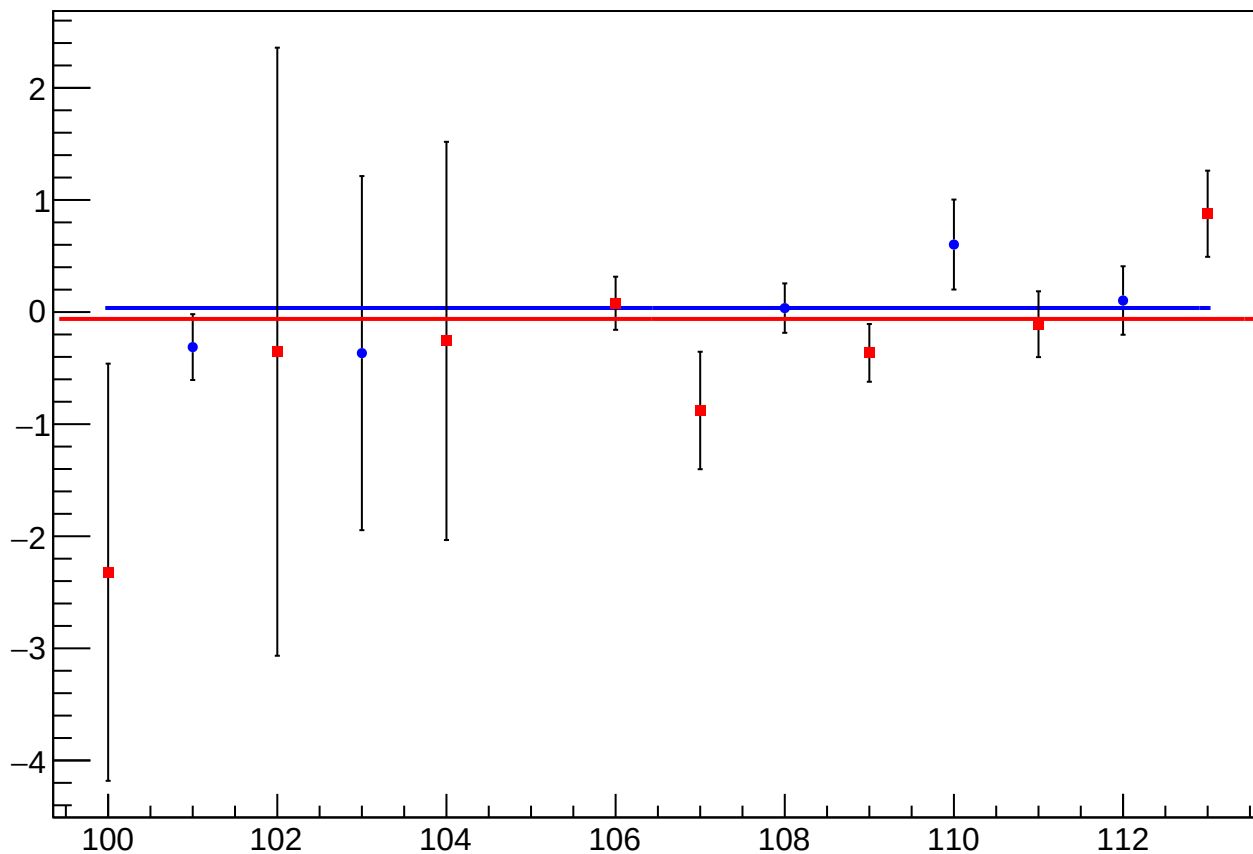
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2639410.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.036 $\pm$ 0.142  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.061 $\pm$ 0.134  $\chi^2$ /NDF: 11.6/7

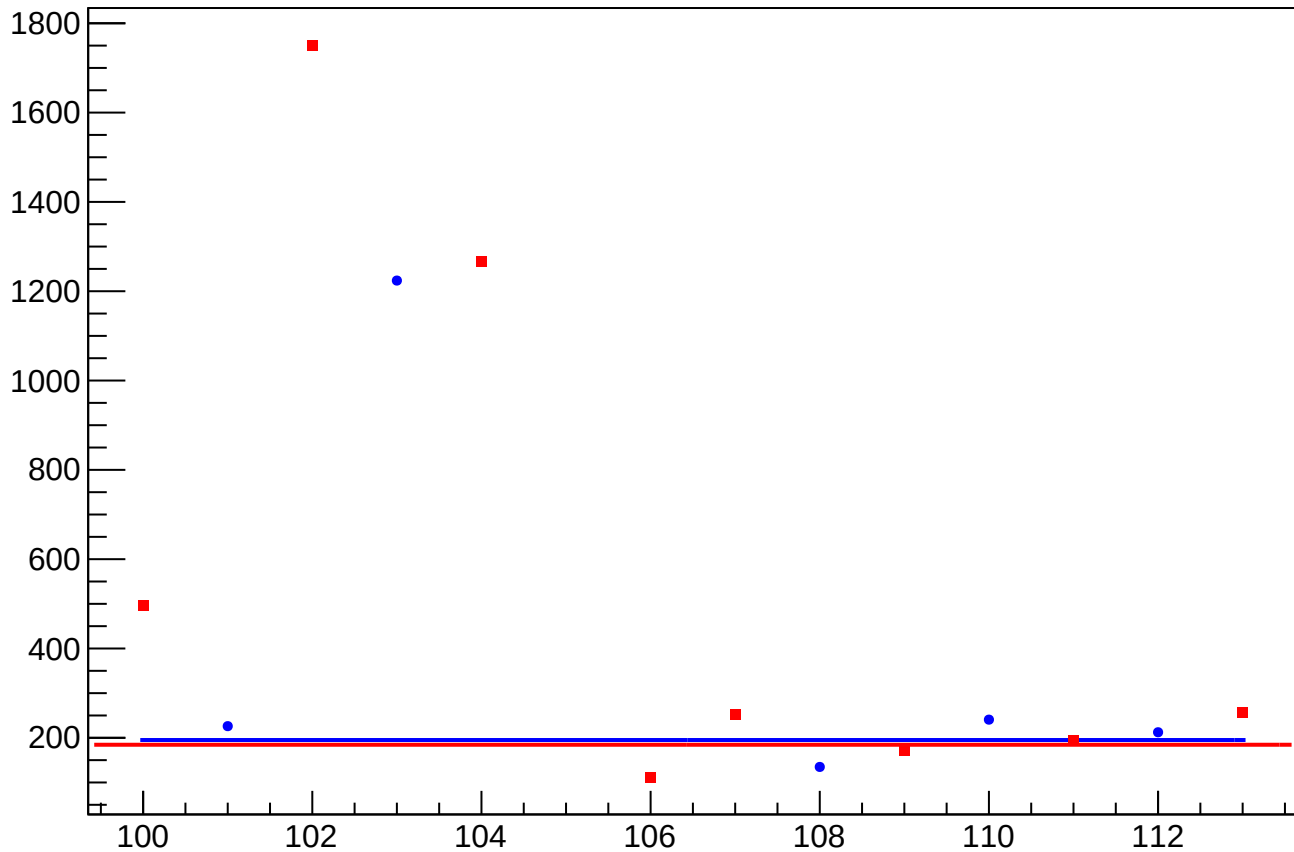
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.015 $\pm$ 0.098  $\chi^2$ /NDF: 15.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 195.066+/-0.100  $\chi^2/\text{NDF}$ : 1052839.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 184.469+/-0.095  $\chi^2/\text{NDF}$ : 1770735.3/7

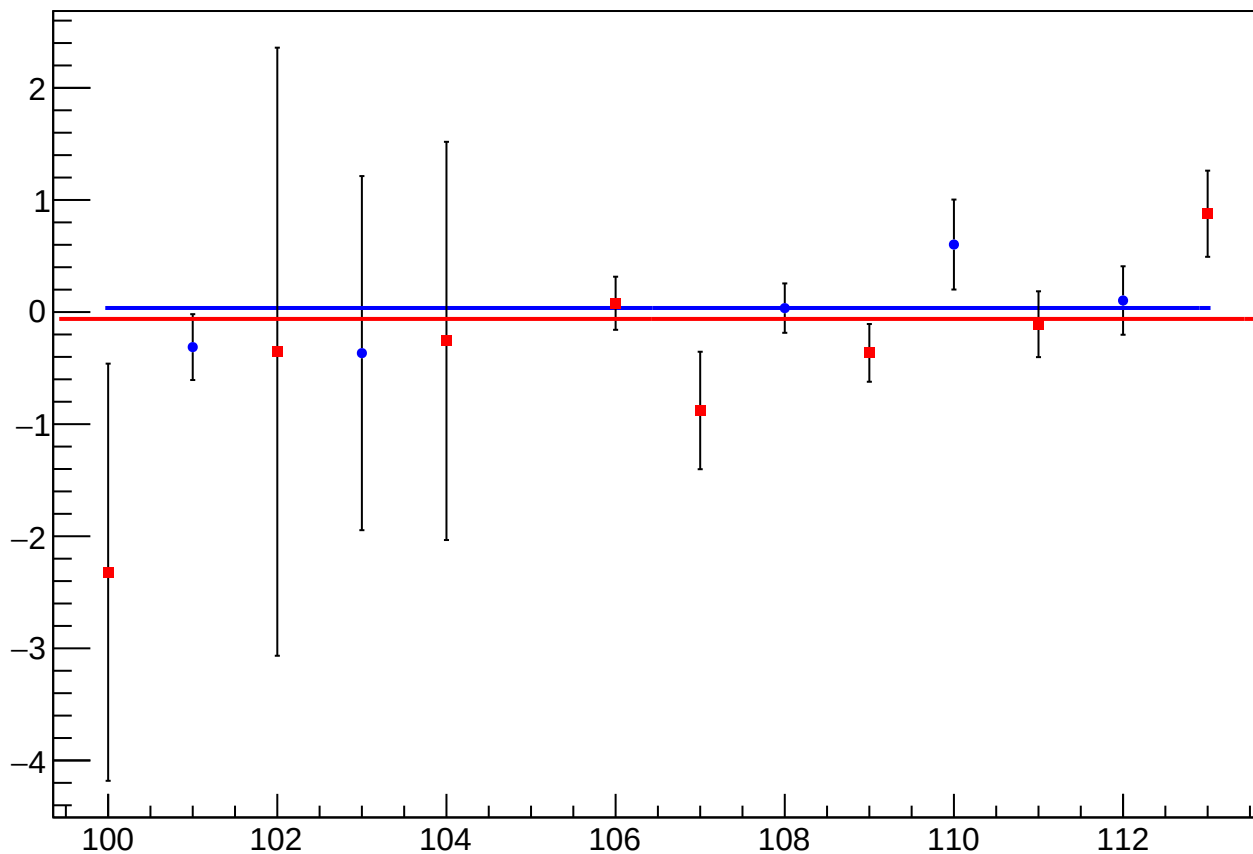
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 189.460+/-0.069  $\chi^2/\text{NDF}$ : 2829459.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.036 $\pm$ 0.142  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.061 $\pm$ 0.134  $\chi^2$ /NDF: 11.6/7

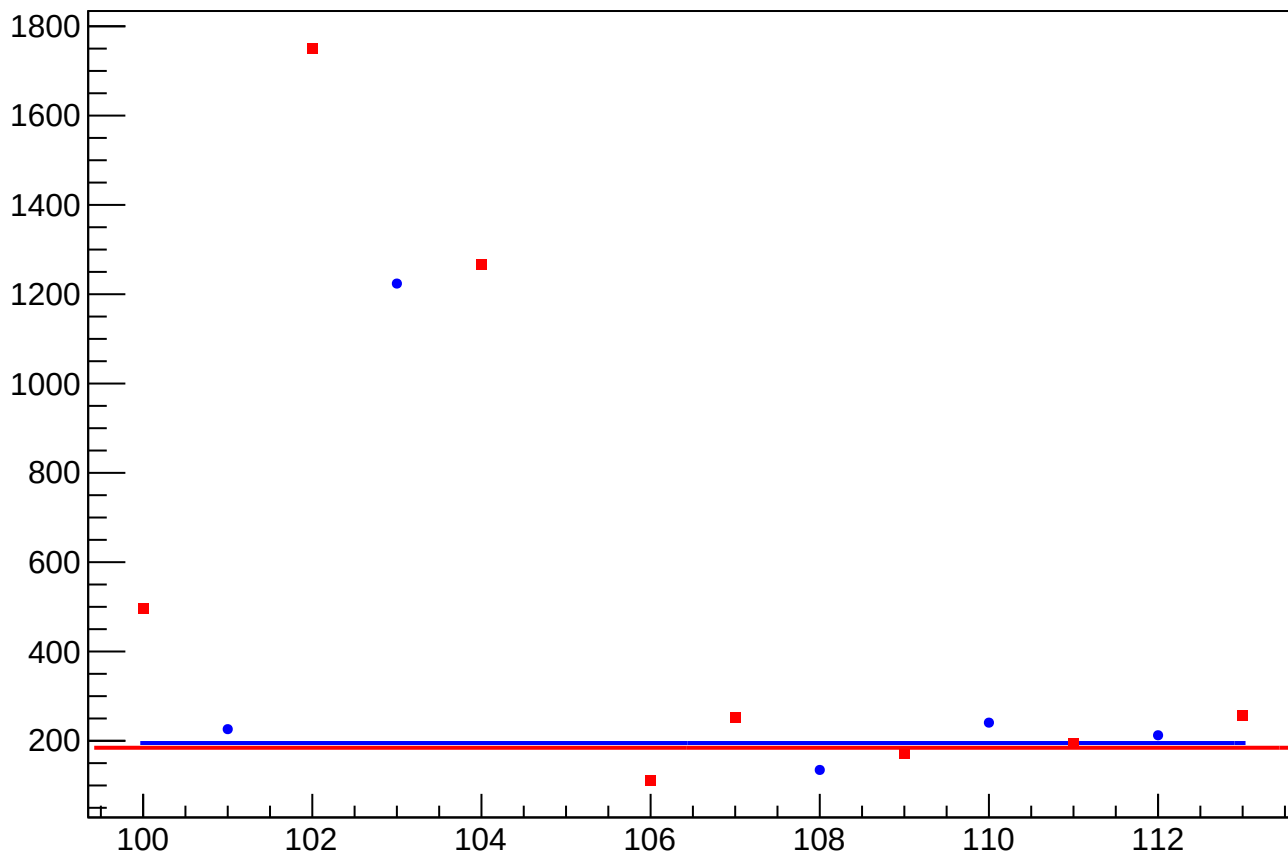
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.015 $\pm$ 0.098  $\chi^2$ /NDF: 15.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 195.066+/-0.100  $\chi^2/\text{NDF}$ : 1052839.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 184.469+/-0.095  $\chi^2/\text{NDF}$ : 1770735.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

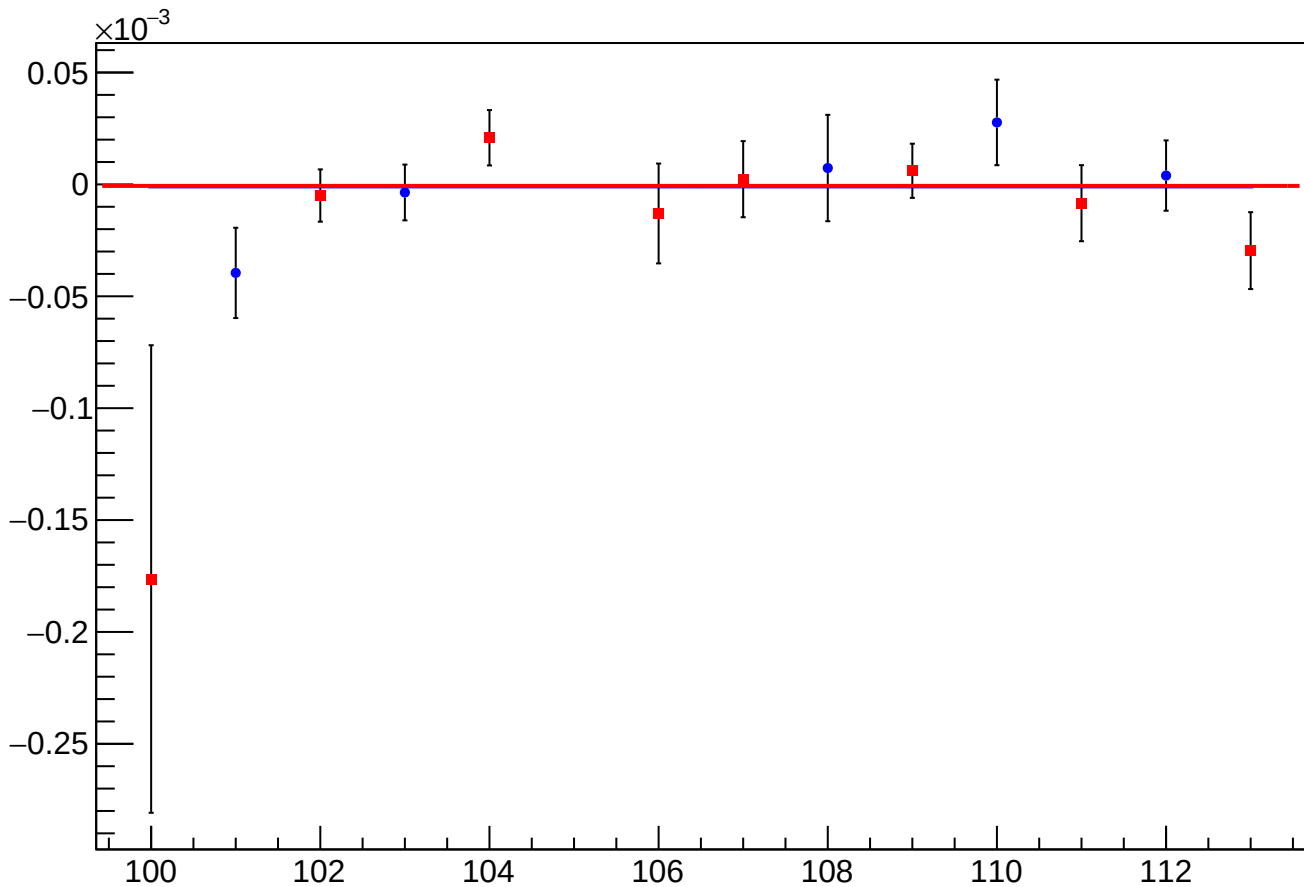
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 189.460+/-0.069  $\chi^2/\text{NDF}$ : 2829459.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl1r2\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 6.2/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 9.7/7

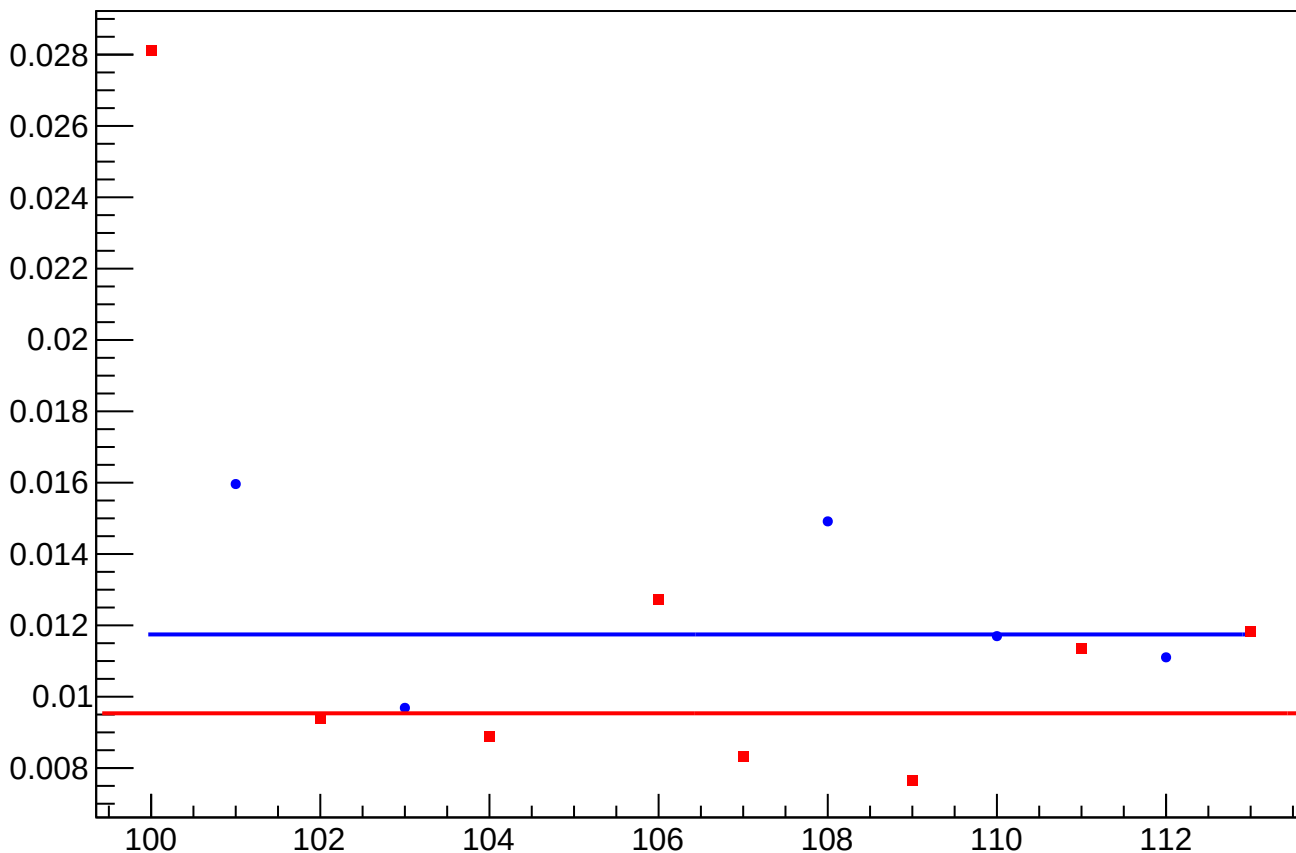
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 15.8/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 180706.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 226848.1/7

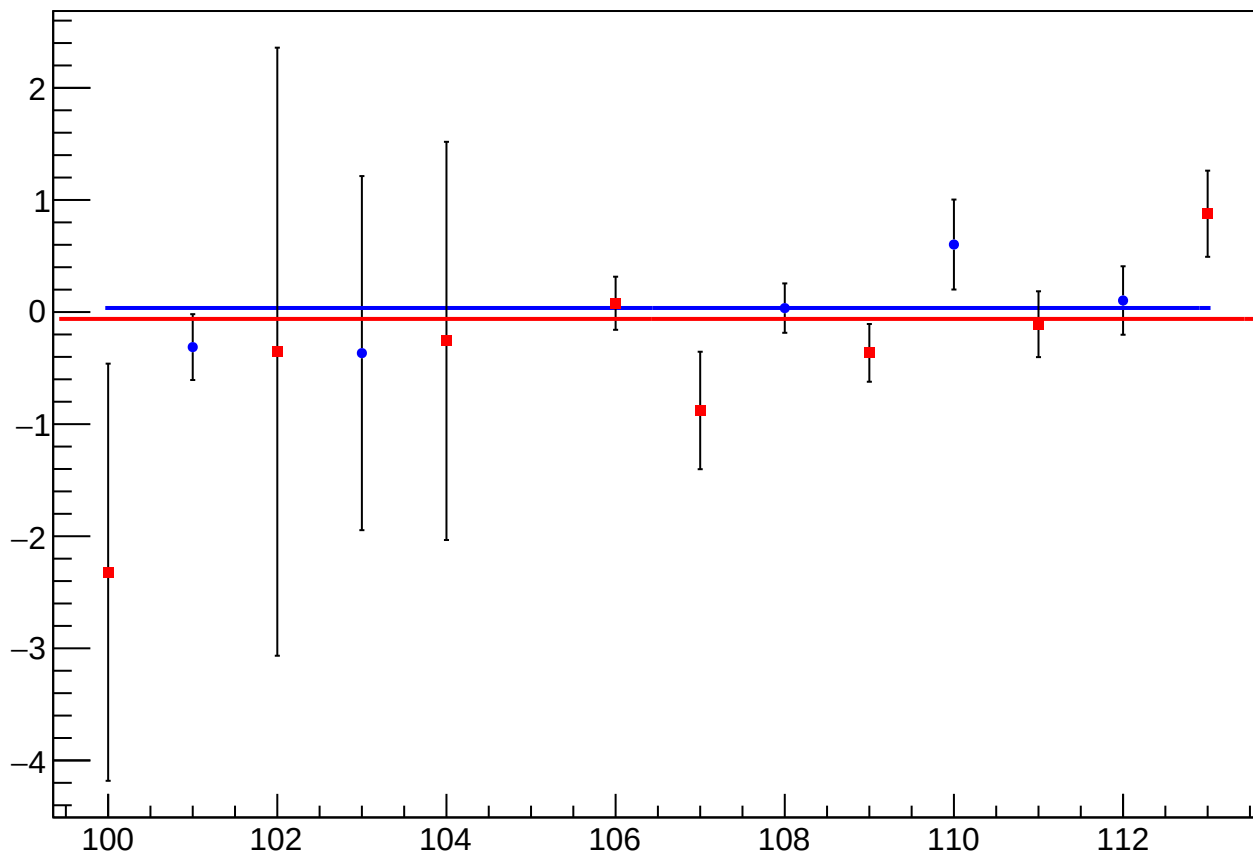
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 519210.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.036 $\pm$ 0.142  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.061 $\pm$ 0.134  $\chi^2$ /NDF: 11.6/7

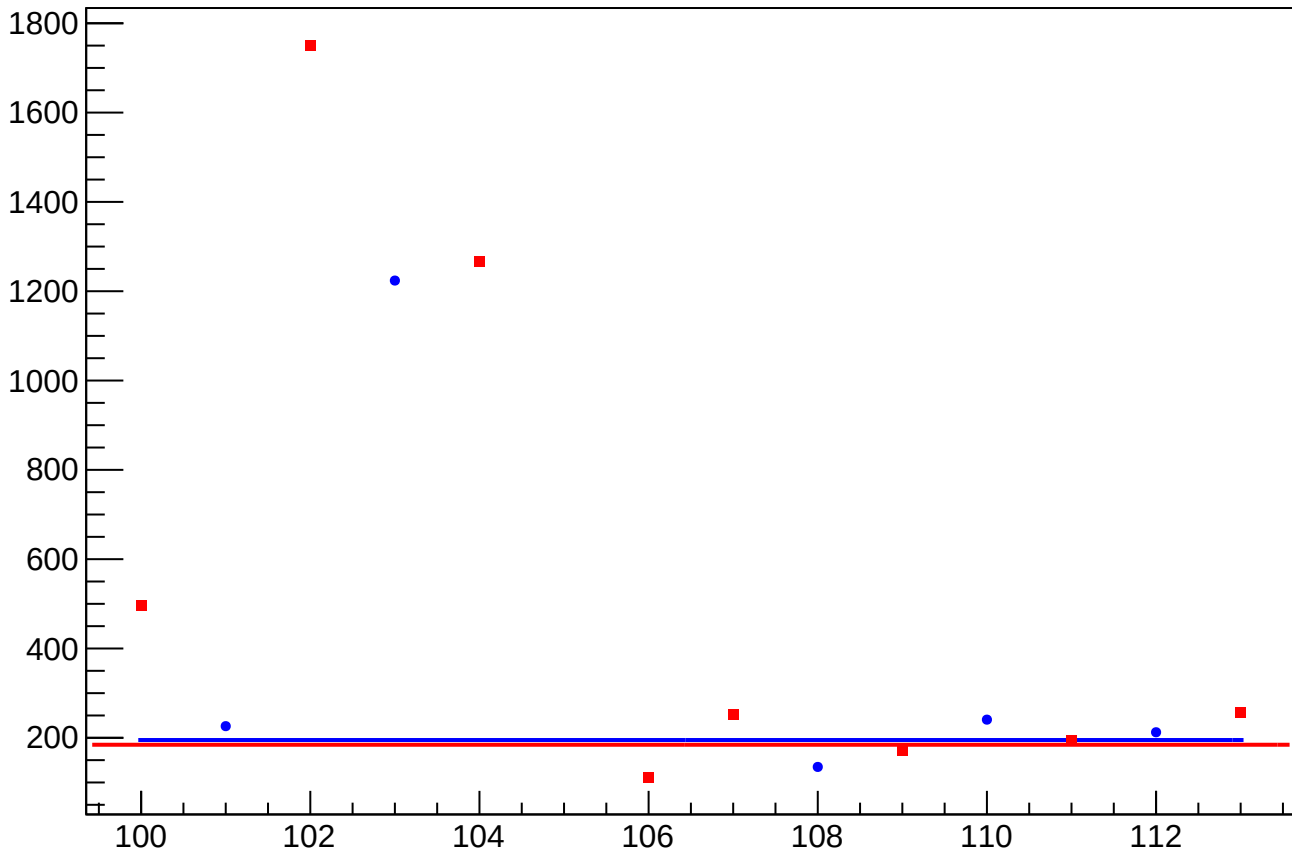
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.015 $\pm$ 0.098  $\chi^2$ /NDF: 15.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 195.066+/-0.100  $\chi^2/\text{NDF}$ : 1052848.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 184.467+/-0.095  $\chi^2/\text{NDF}$ : 1770761.0/7

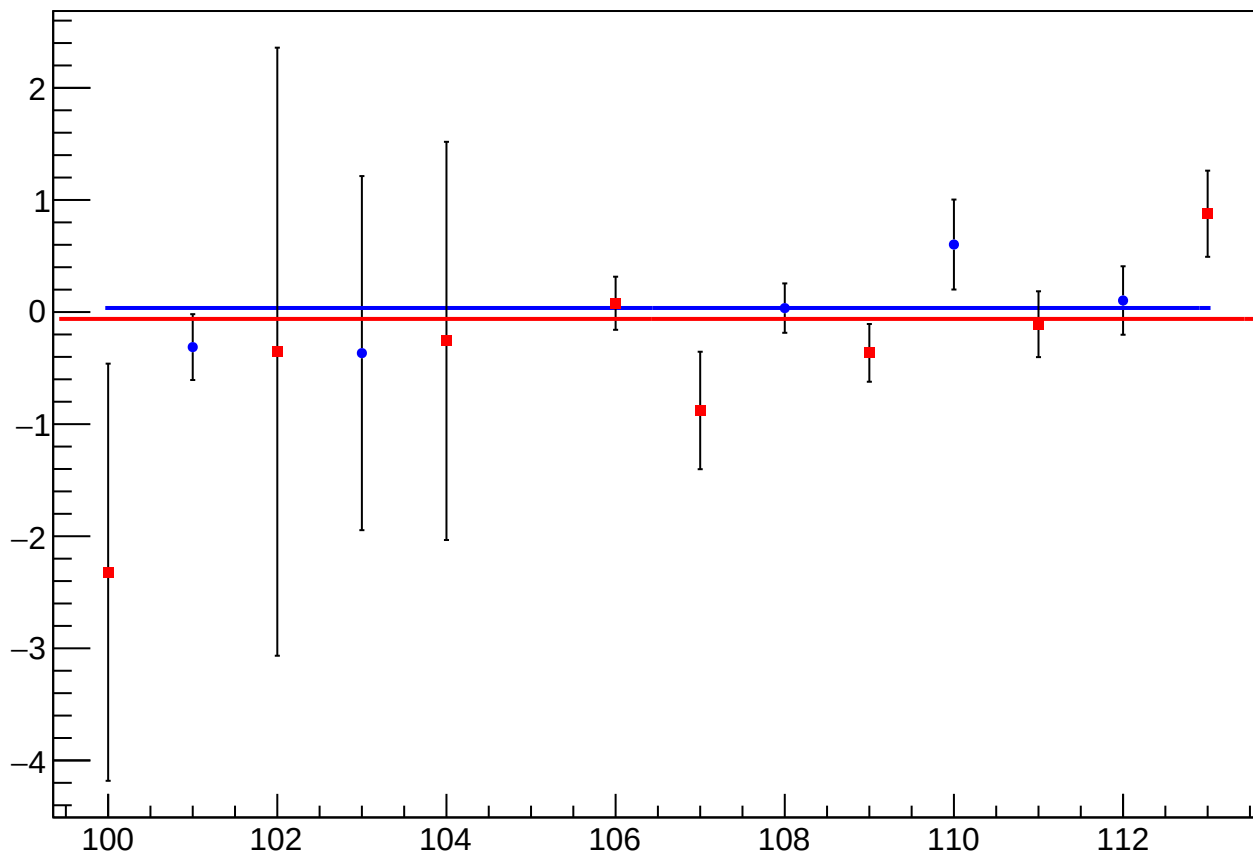
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 189.459+/-0.069  $\chi^2/\text{NDF}$ : 2829496.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.036+/-0.142  $\chi^2/\text{NDF}$ : 3.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.061+/-0.134  $\chi^2/\text{NDF}$ : 11.6/7

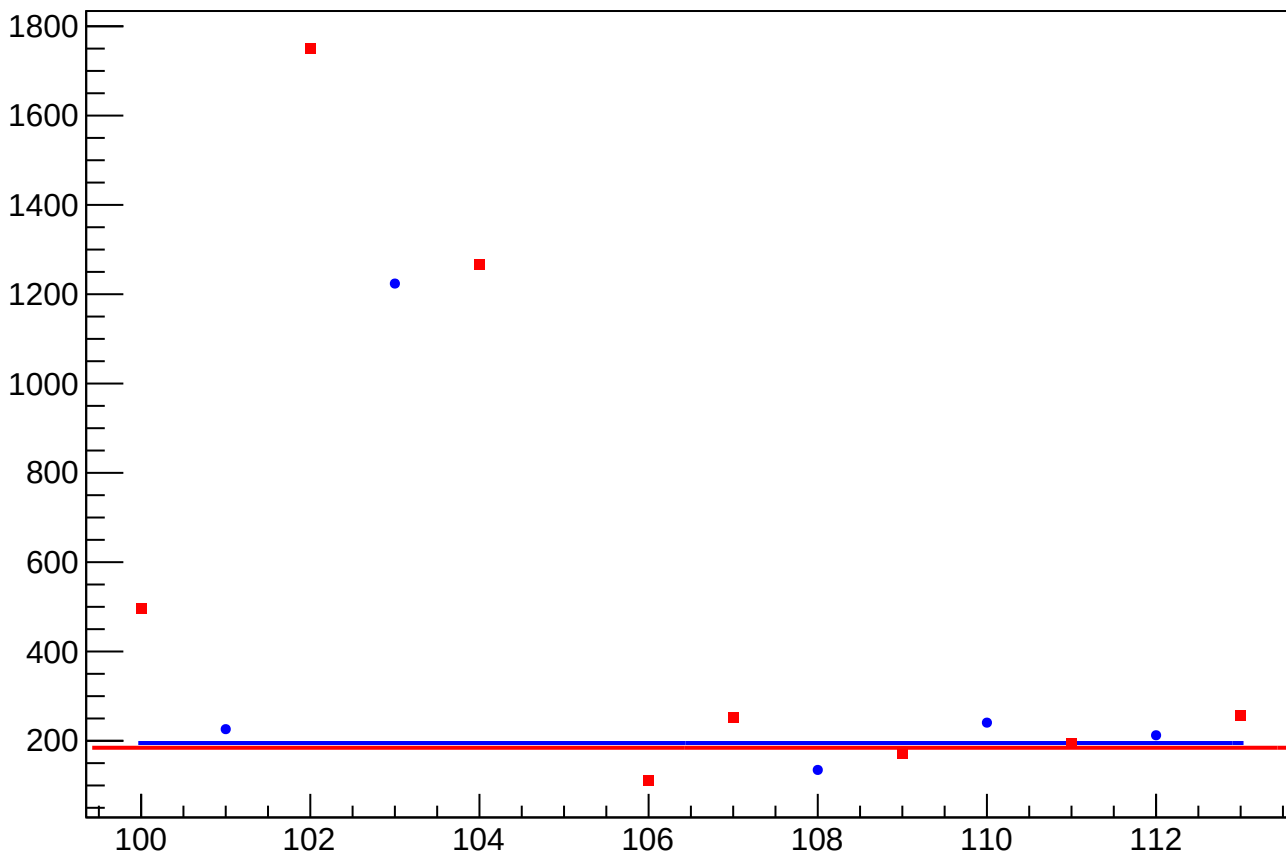
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.015+/-0.098  $\chi^2/\text{NDF}$ : 15.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 195.066+/-0.100  $\chi^2/\text{NDF}$ : 1052848.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 184.467+/-0.095  $\chi^2/\text{NDF}$ : 1770761.0/7

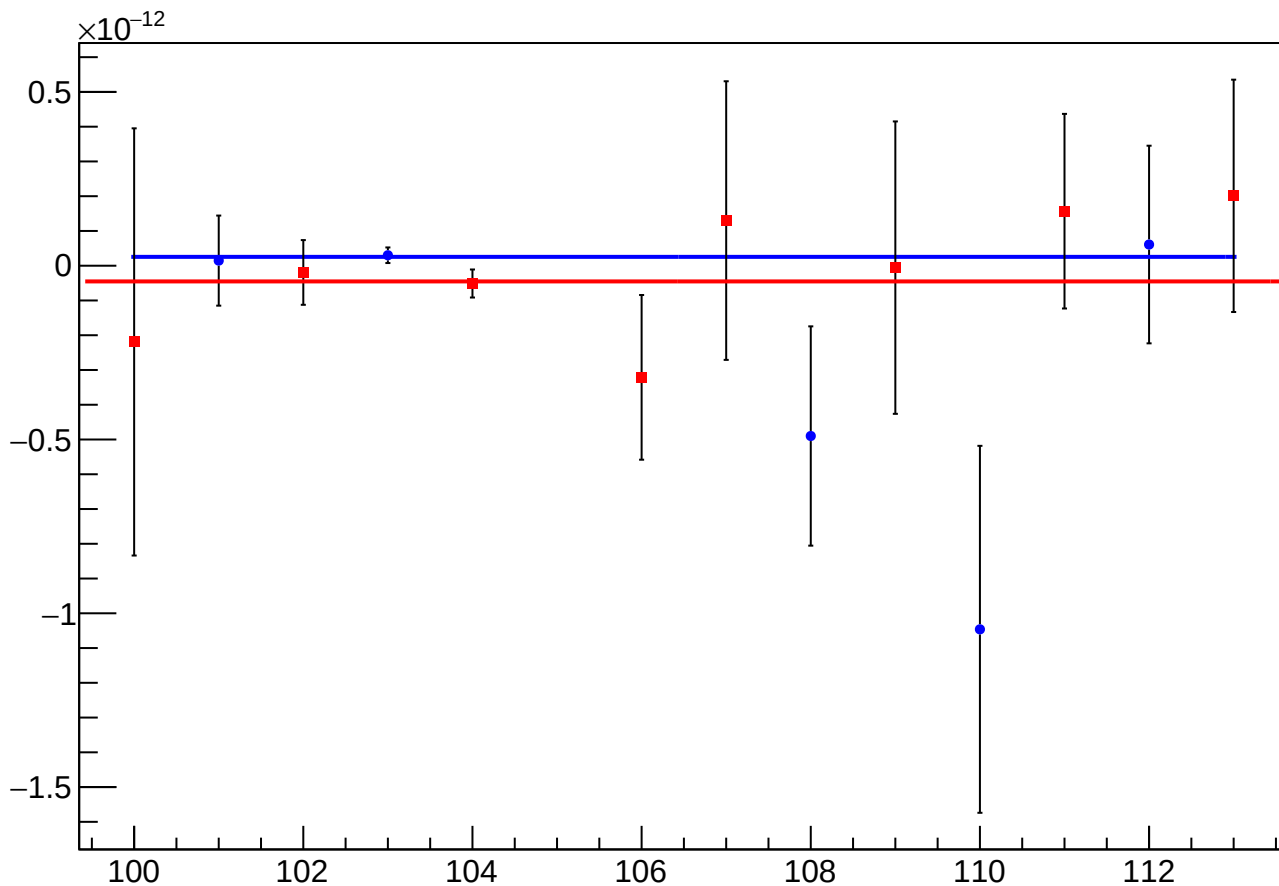
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 189.459+/-0.069  $\chi^2/\text{NDF}$ : 2829496.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 6.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 2.8/7

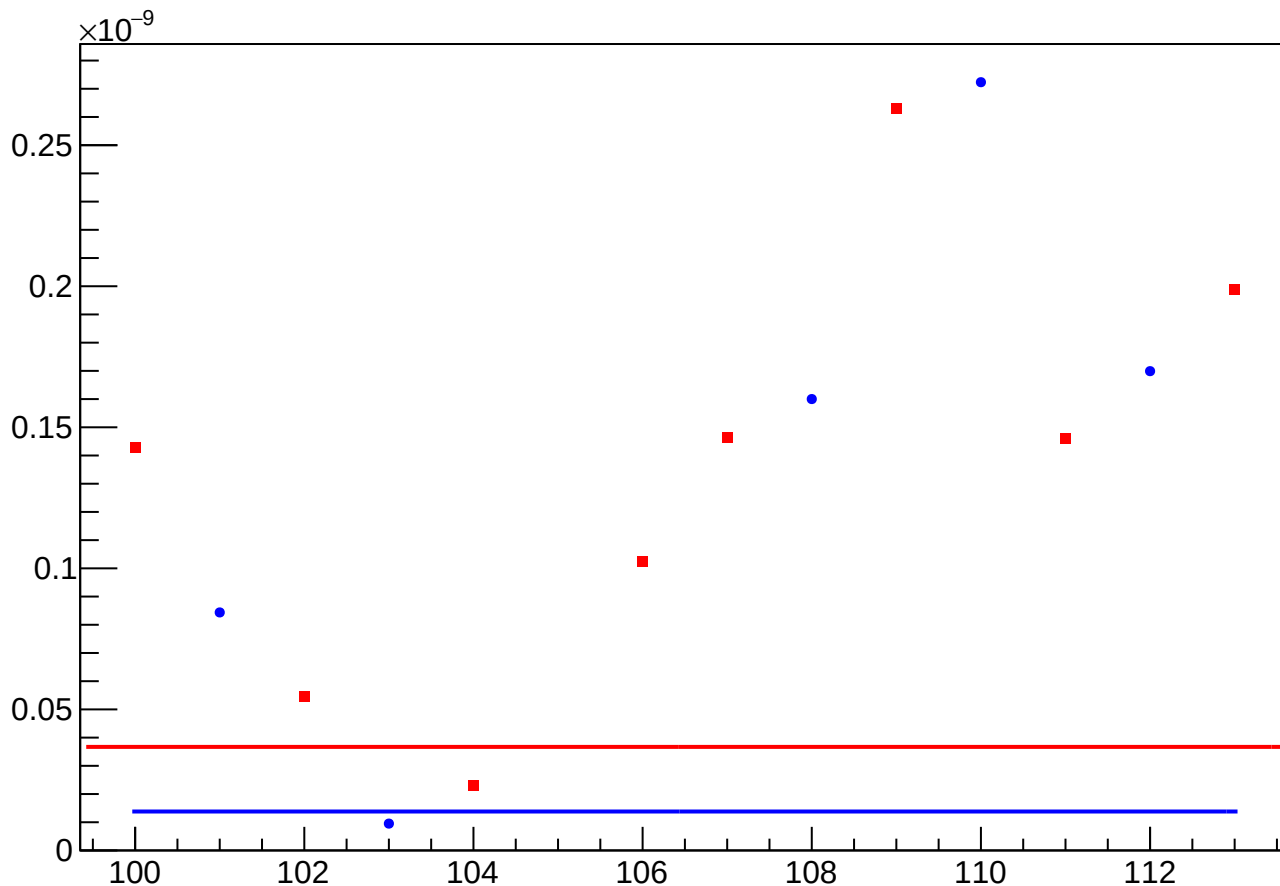
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2178320.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2017339.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

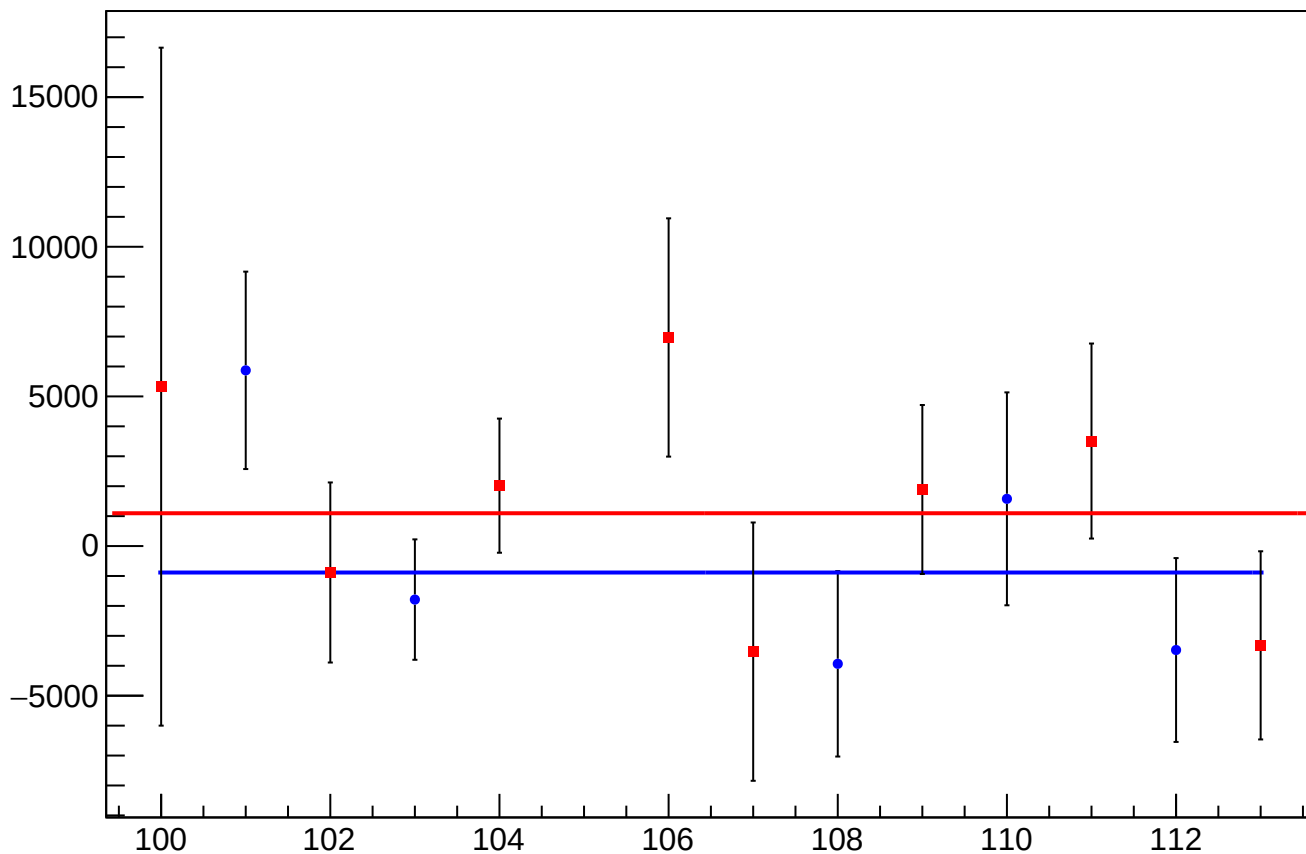
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4792842.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -884.203+/-1261.617  $\chi^2/\text{NDF}$ : 6.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1096.458+/-1150.806  $\chi^2/\text{NDF}$ : 6.7/7

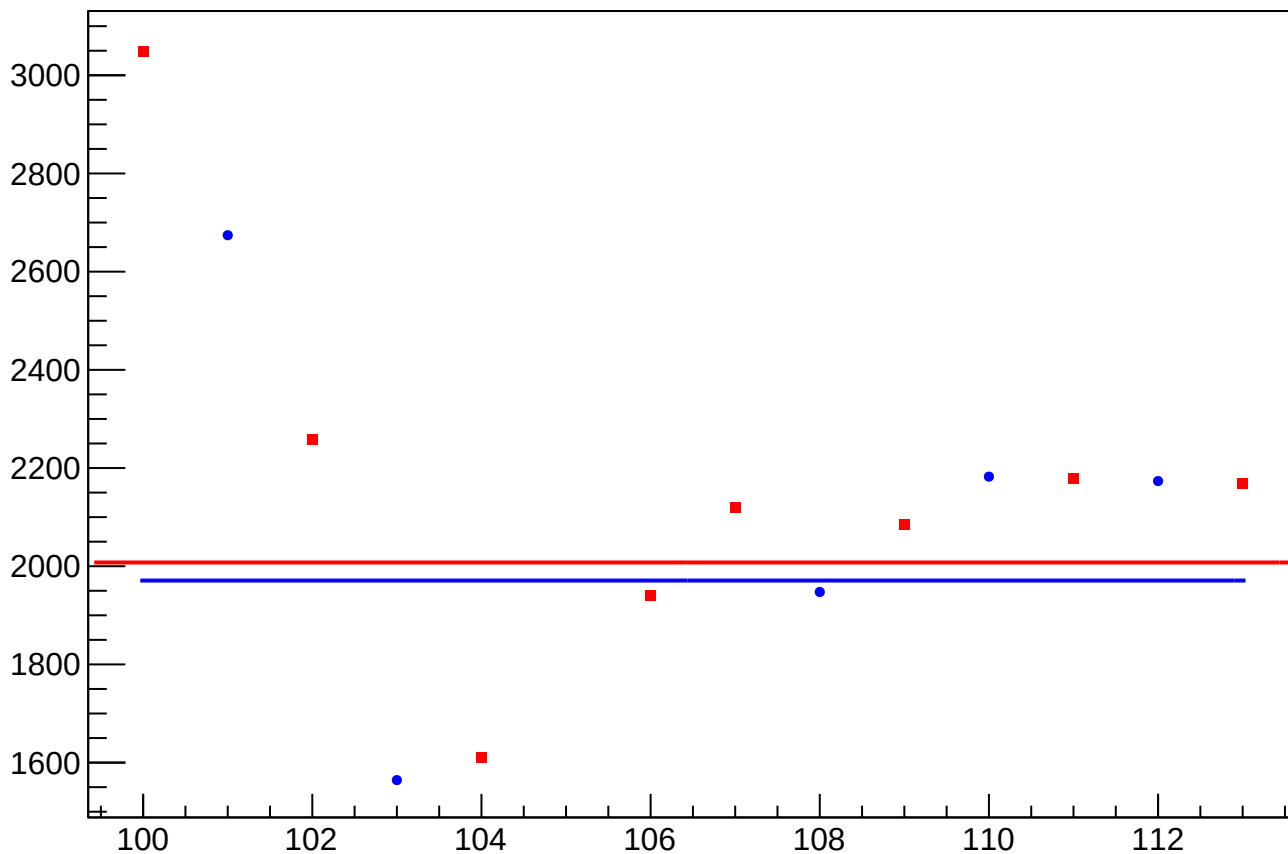
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 196.915+/-850.224  $\chi^2/\text{NDF}$ : 14.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1970.846+/-0.892  $\chi^2/\text{NDF}$ : 188522.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2007.651+/-0.809  $\chi^2/\text{NDF}$ : 108022.9/7

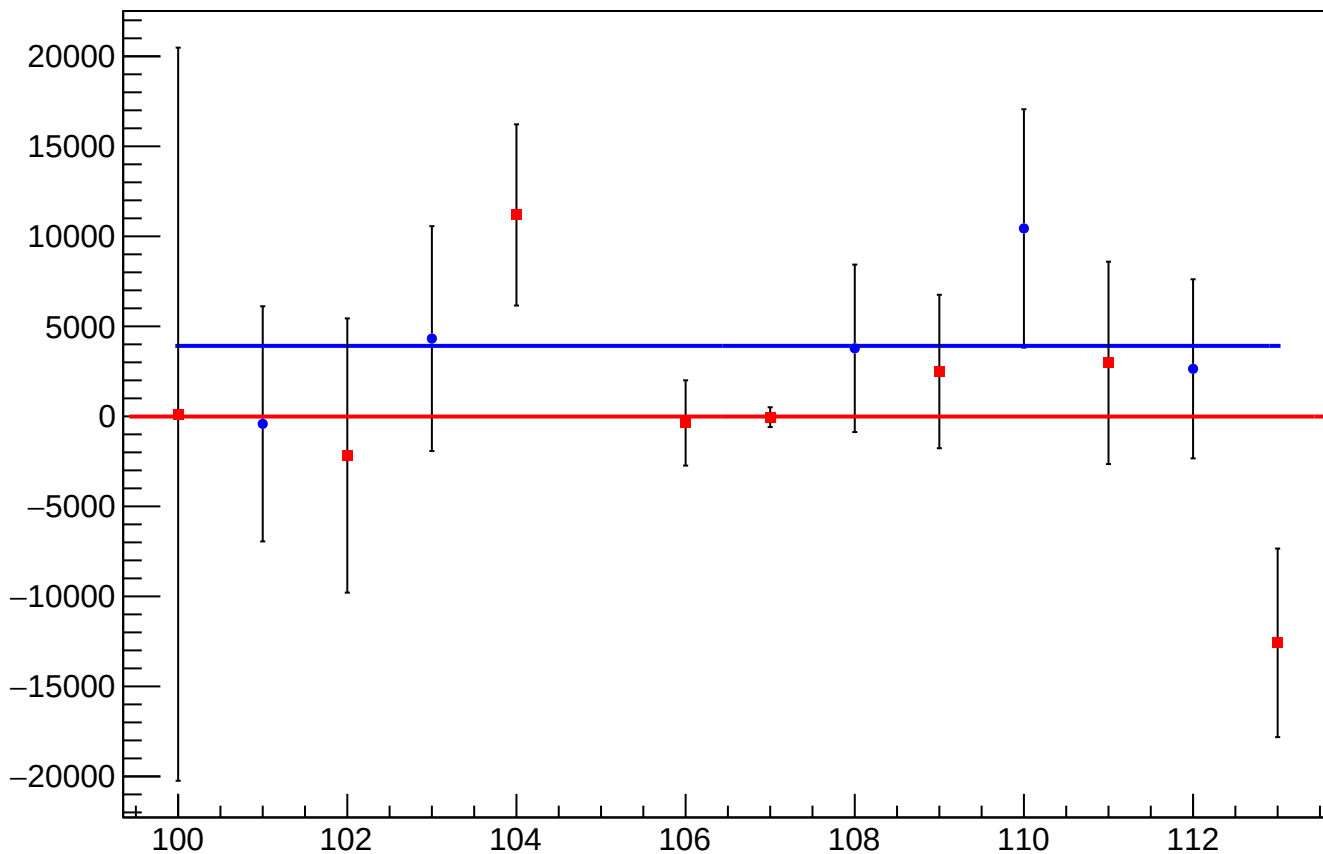
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1991.047+/-0.599  $\chi^2/\text{NDF}$ : 297479.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_reg\_correction\_mean vs Slug



Right In: 3915.007 $\pm$ 2511.421  $\chi^2$ /NDF: 1.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -9.796 $\pm$ 522.601  $\chi^2$ /NDF: 11.4/7

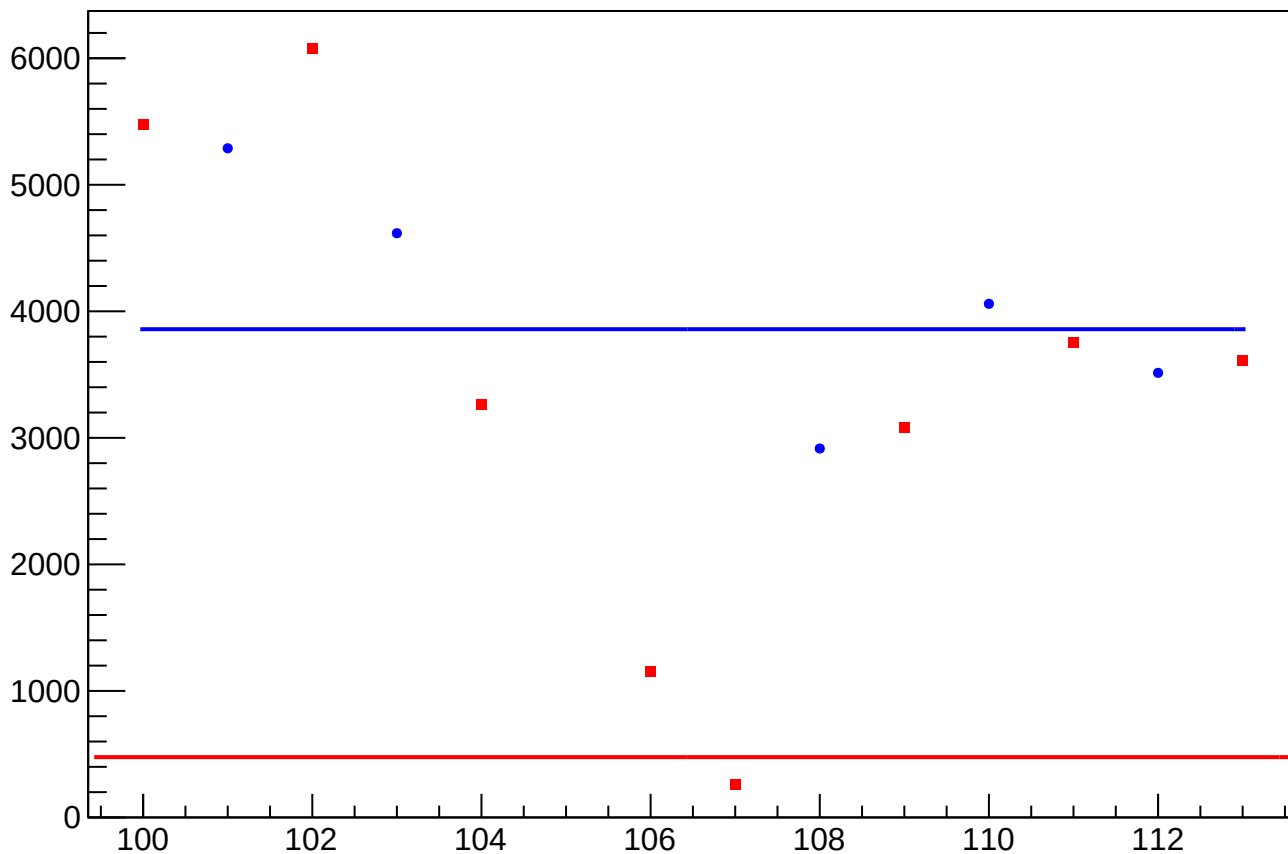
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 153.099 $\pm$ 511.641  $\chi^2$ /NDF: 15.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_reg\_correction\_rms vs Slug



Right In: 3858.571+/-1.776  $\chi^2/\text{NDF}$ : 219019.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 476.698+/-0.370  $\chi^2/\text{NDF}$ : 4420388.5/7

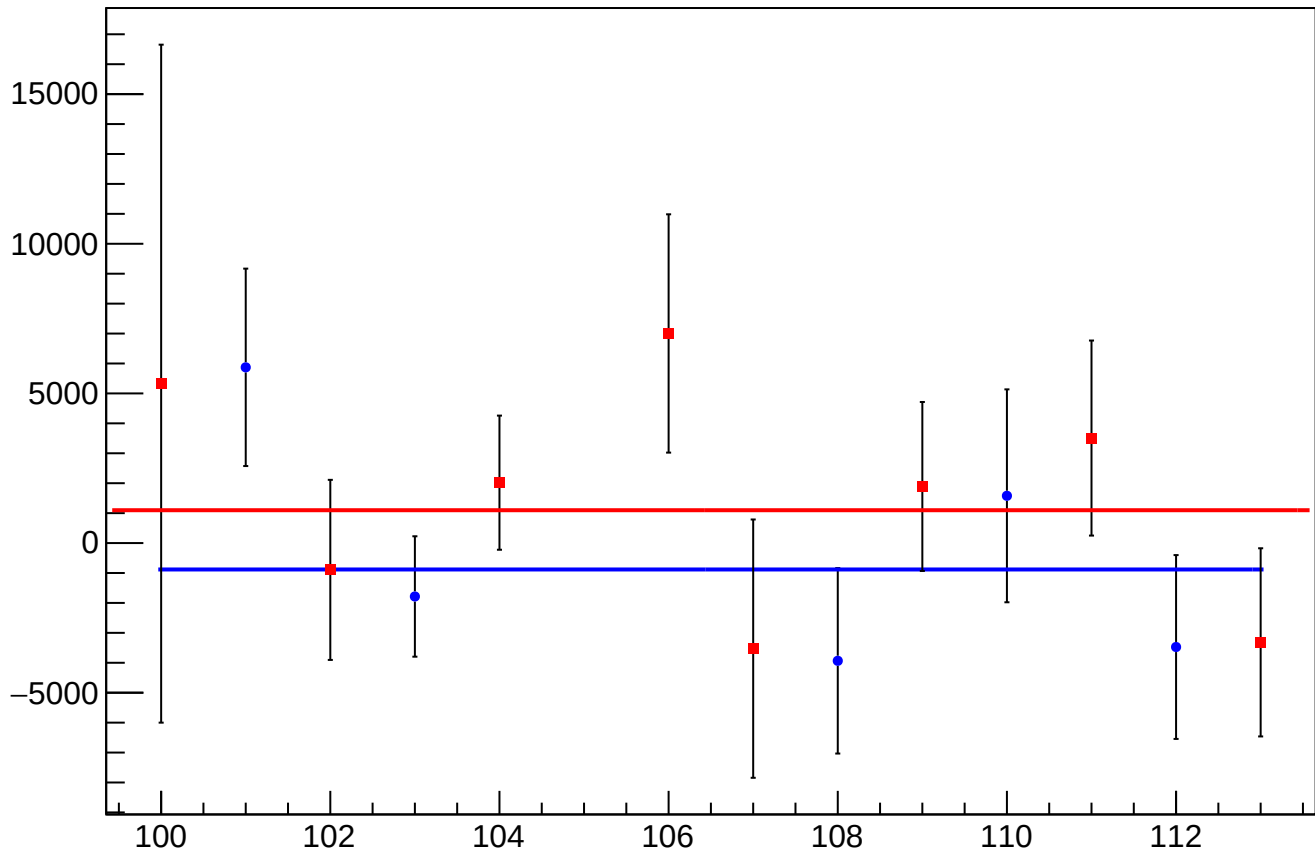
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 617.060+/-0.362  $\chi^2/\text{NDF}$ : 8115535.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -882.621+/-1261.618  $\chi^2/\text{NDF}$ : 6.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1097.452+/-1150.814  $\chi^2/\text{NDF}$ : 6.7/7

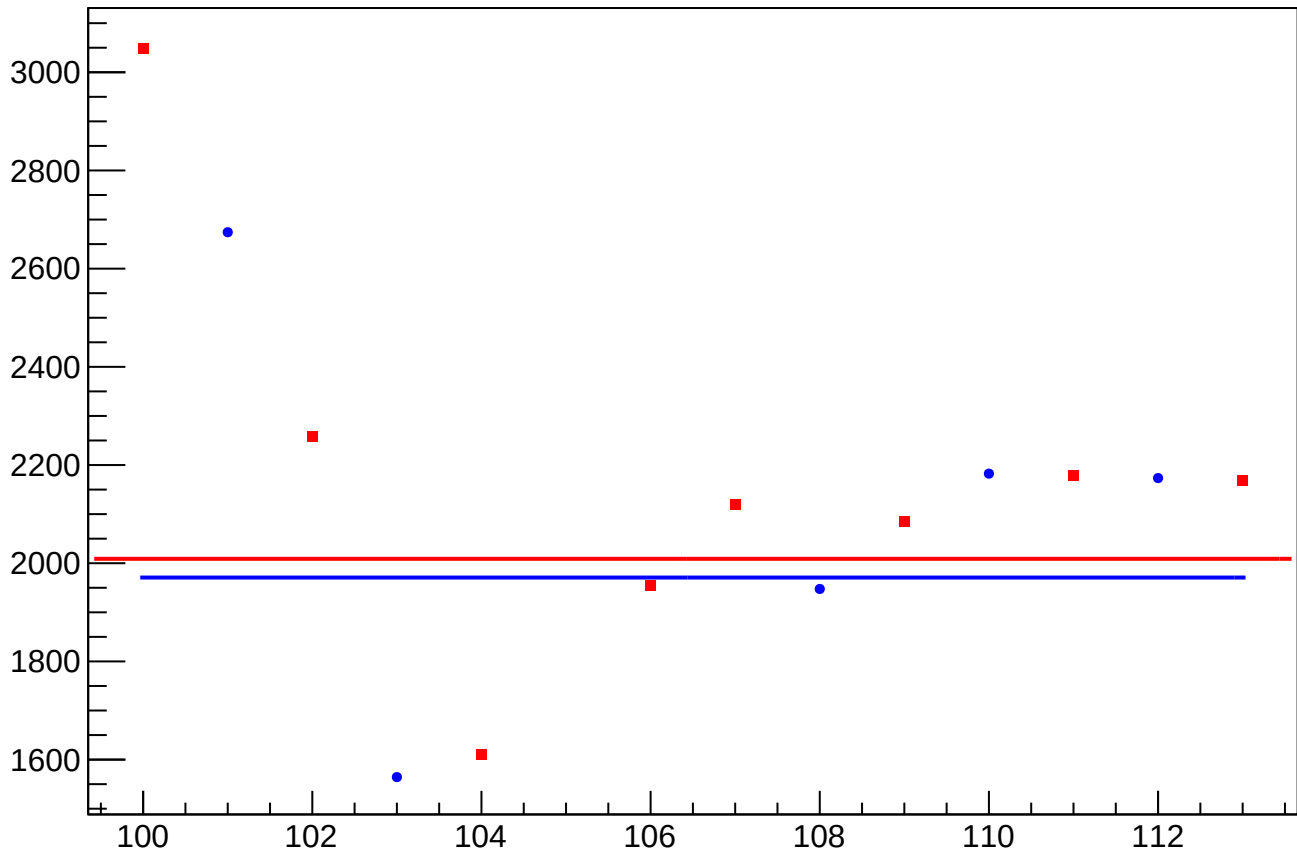
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 198.170+/-850.228  $\chi^2/\text{NDF}$ : 14.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1970.847+/-0.892  $\chi^2/\text{NDF}$ : 188521.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2009.002+/-0.809  $\chi^2/\text{NDF}$ : 107778.7/7

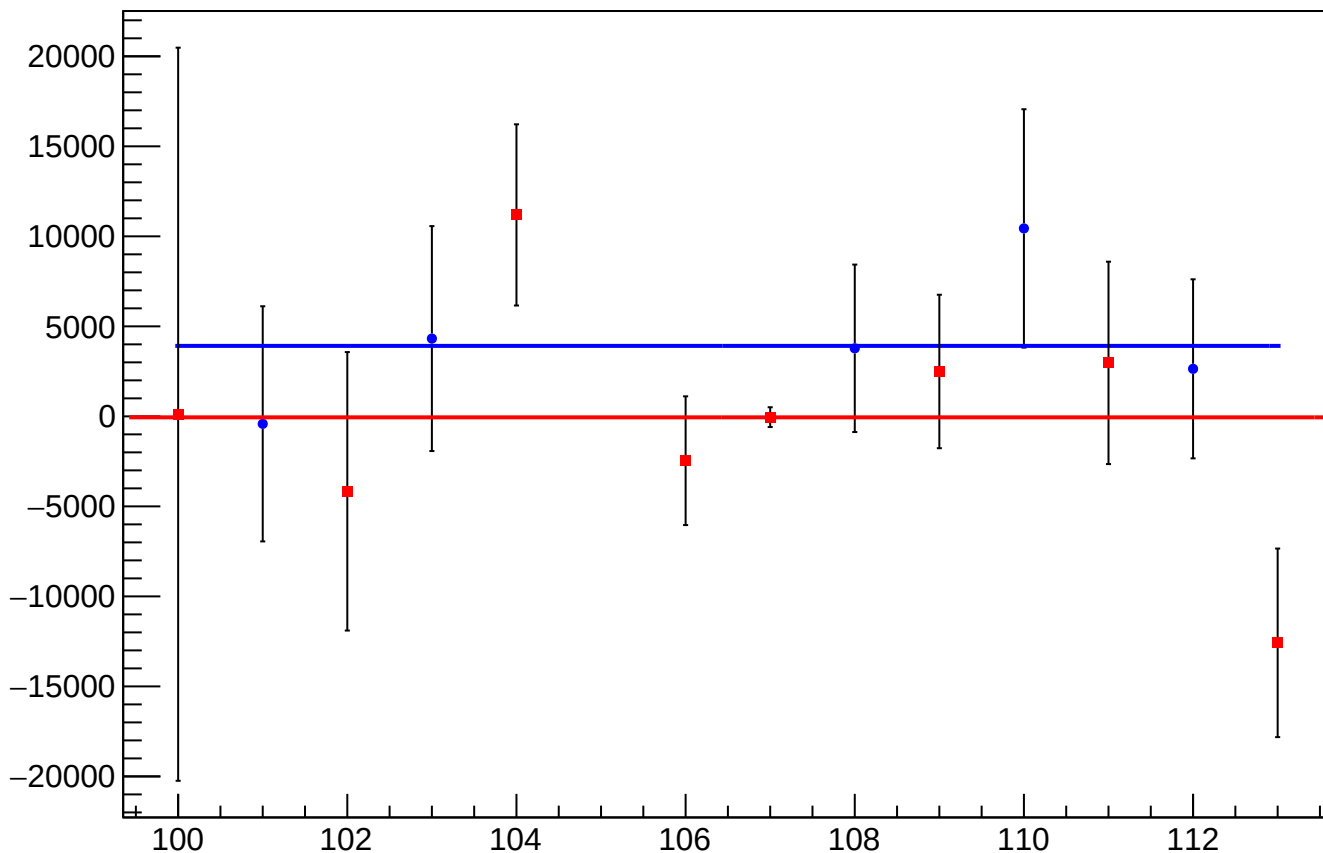
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1991.778+/-0.599  $\chi^2/\text{NDF}$ : 297303.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_cor\_correction\_mean vs Slug



Right In: 3915.065+/-2511.451  $\chi^2/\text{NDF}$ : 1.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -54.245+/-529.892  $\chi^2/\text{NDF}$ : 12.1/7

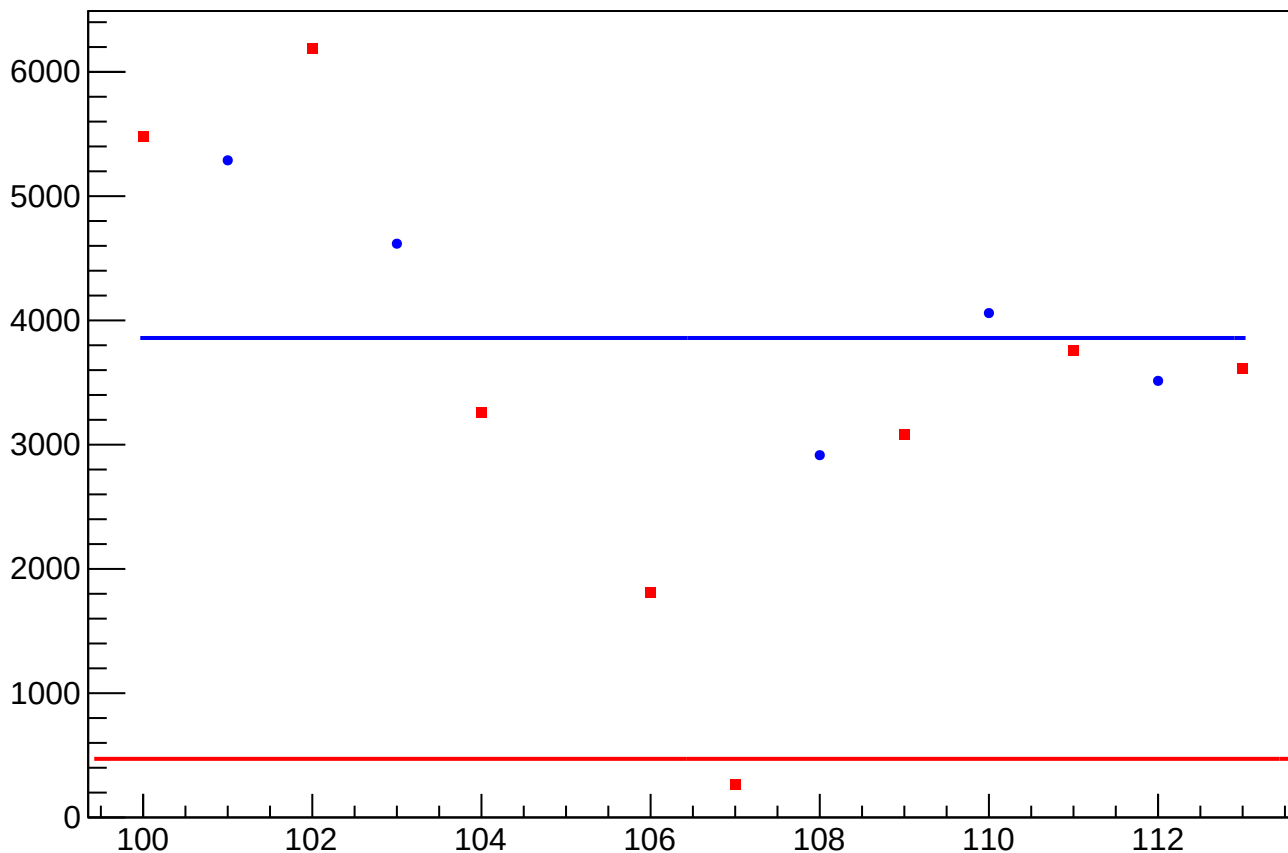
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 114.926+/-518.477  $\chi^2/\text{NDF}$ : 16.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_cor\_correction\_rms vs Slug



Right In: 3858.599+/-1.776  $\chi^2/\text{NDF}$ : 219041.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 471.612+/-0.375  $\chi^2/\text{NDF}$ : 4542748.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

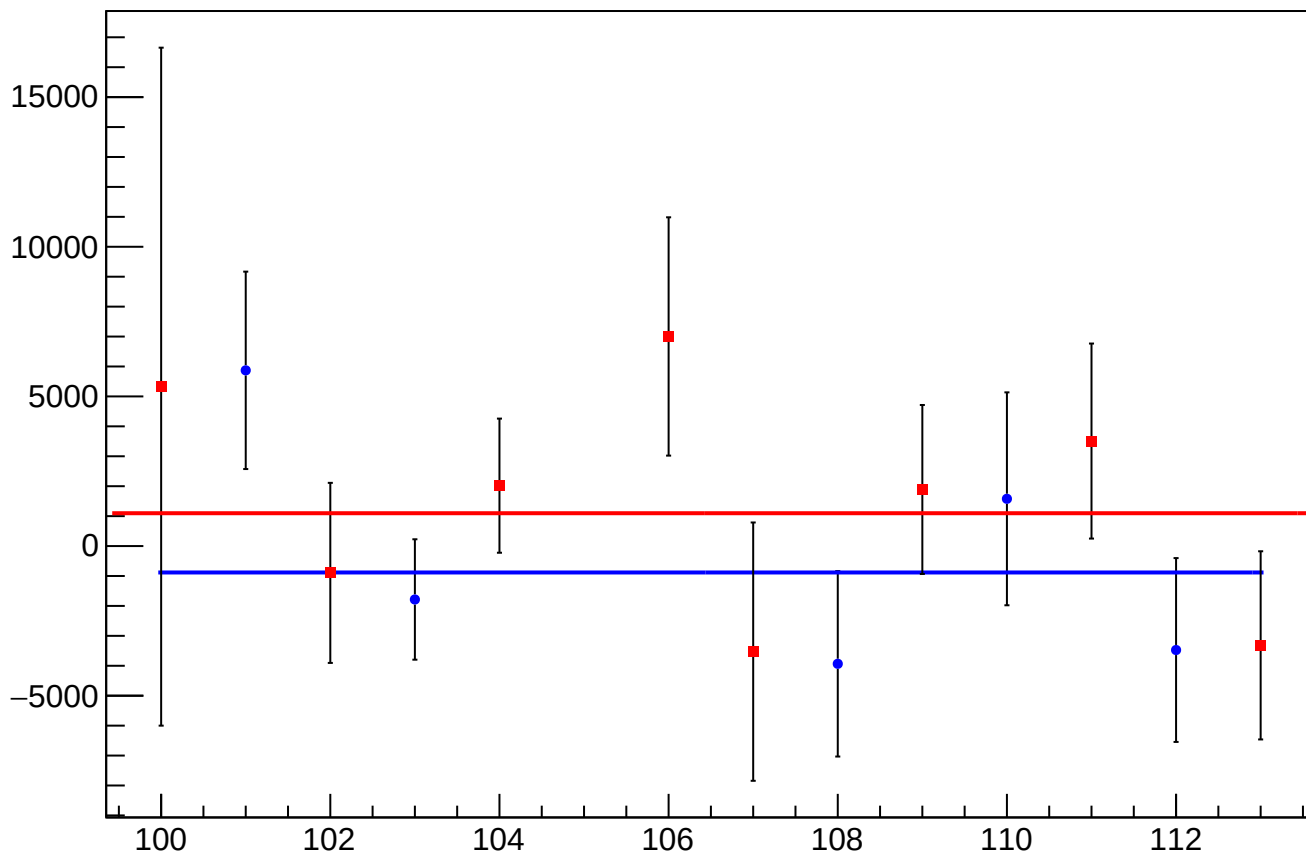
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 615.965+/-0.367  $\chi^2/\text{NDF}$ : 8244298.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -882.621+/-1261.618  $\chi^2/\text{NDF}$ : 6.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1097.452+/-1150.814  $\chi^2/\text{NDF}$ : 6.7/7

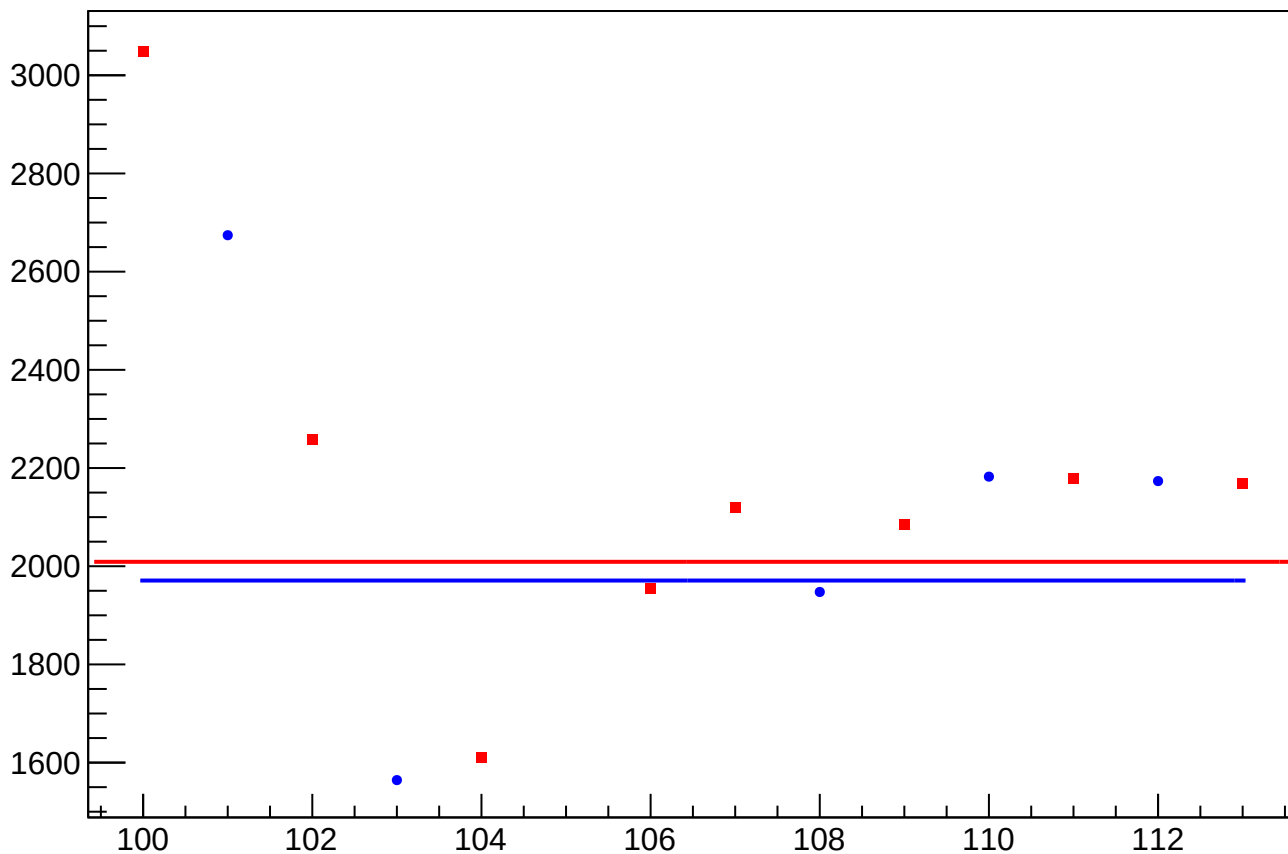
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 198.170+/-850.228  $\chi^2/\text{NDF}$ : 14.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1970.847 $\pm$ 0.892  $\chi^2$ /NDF: 188521.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2009.002 $\pm$ 0.809  $\chi^2$ /NDF: 107778.7/7

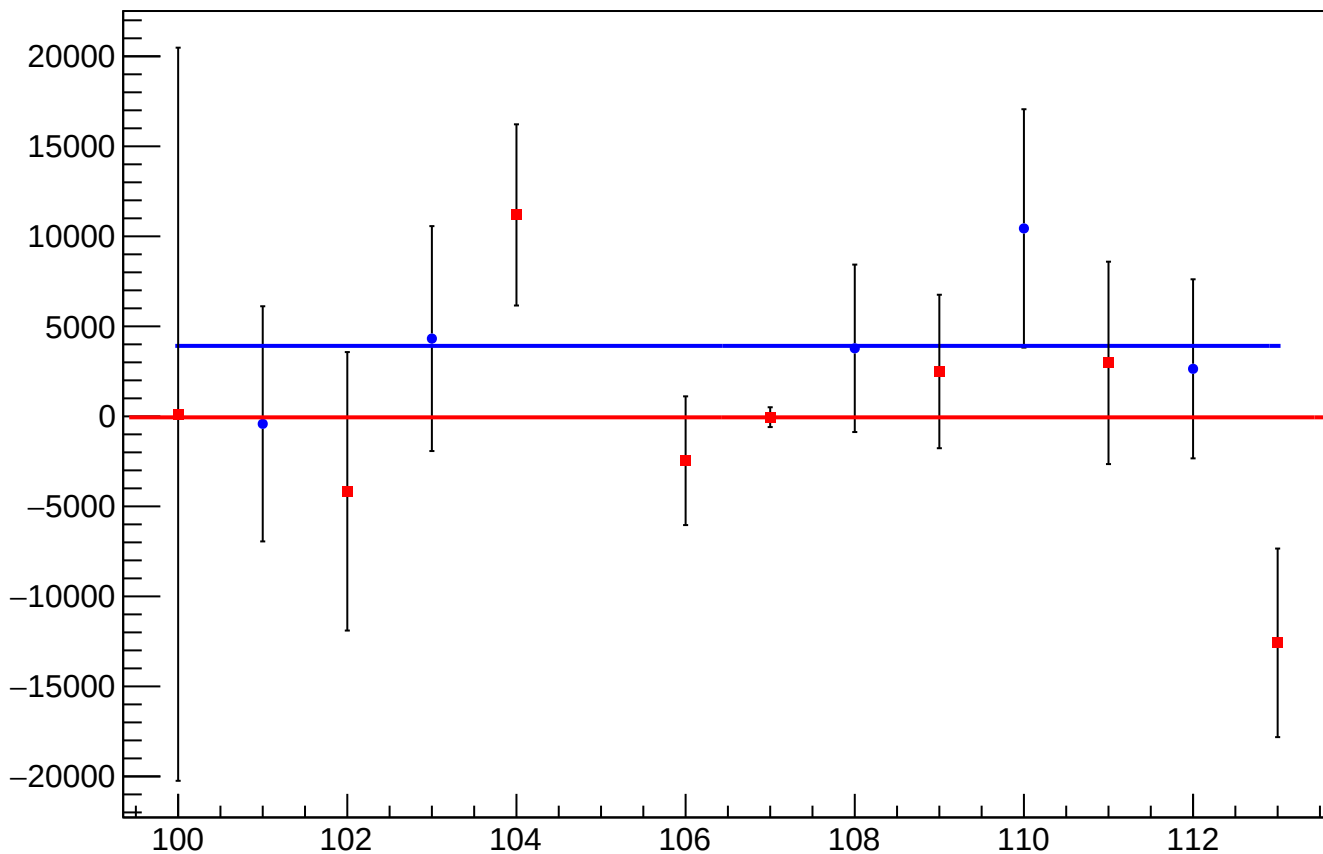
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1991.778 $\pm$ 0.599  $\chi^2$ /NDF: 297303.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 3915.065+/-2511.451  $\chi^2/\text{NDF}$ : 1.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -54.245+/-529.892  $\chi^2/\text{NDF}$ : 12.1/7

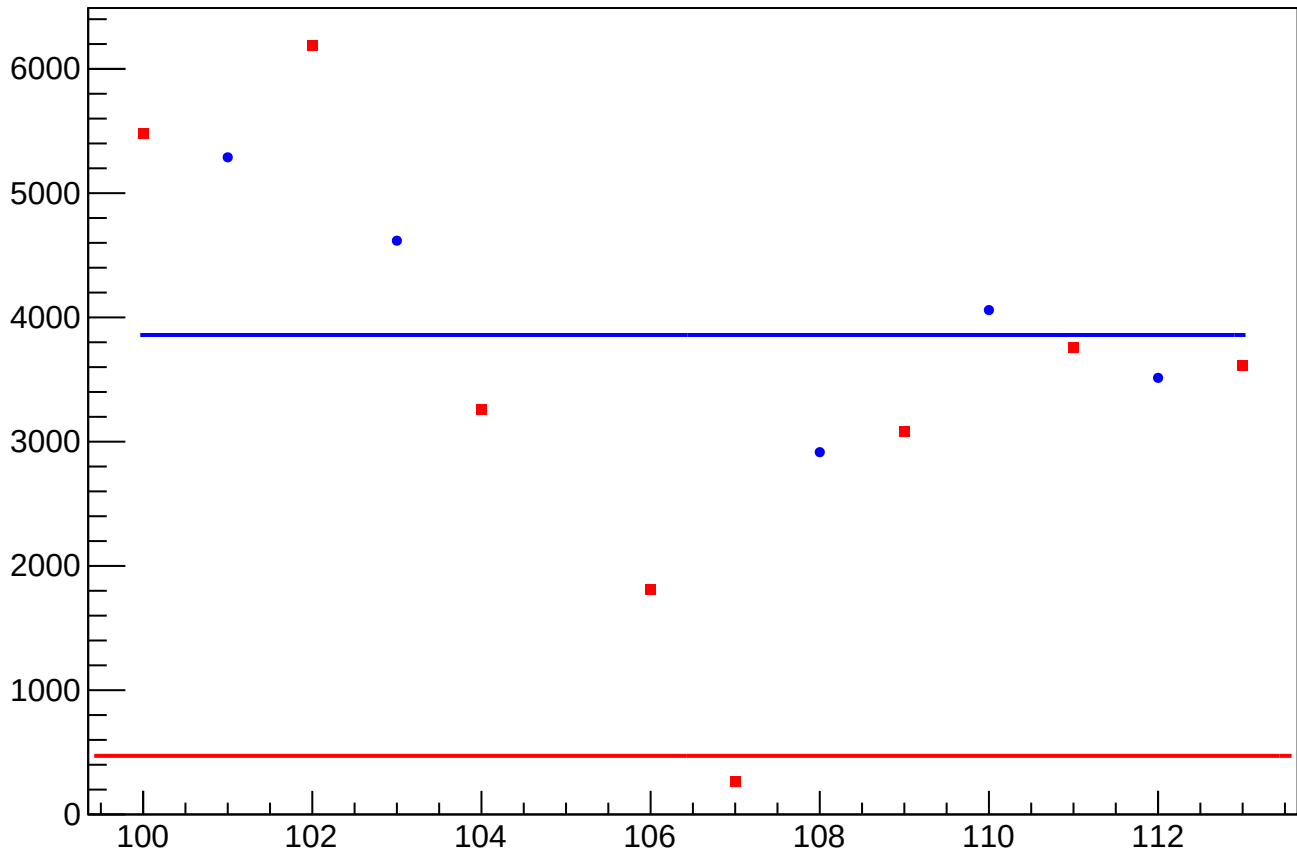
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 114.926+/-518.477  $\chi^2/\text{NDF}$ : 16.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3858.599+/-1.776  $\chi^2/\text{NDF}$ : 219041.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 471.612+/-0.375  $\chi^2/\text{NDF}$ : 4542748.7/7

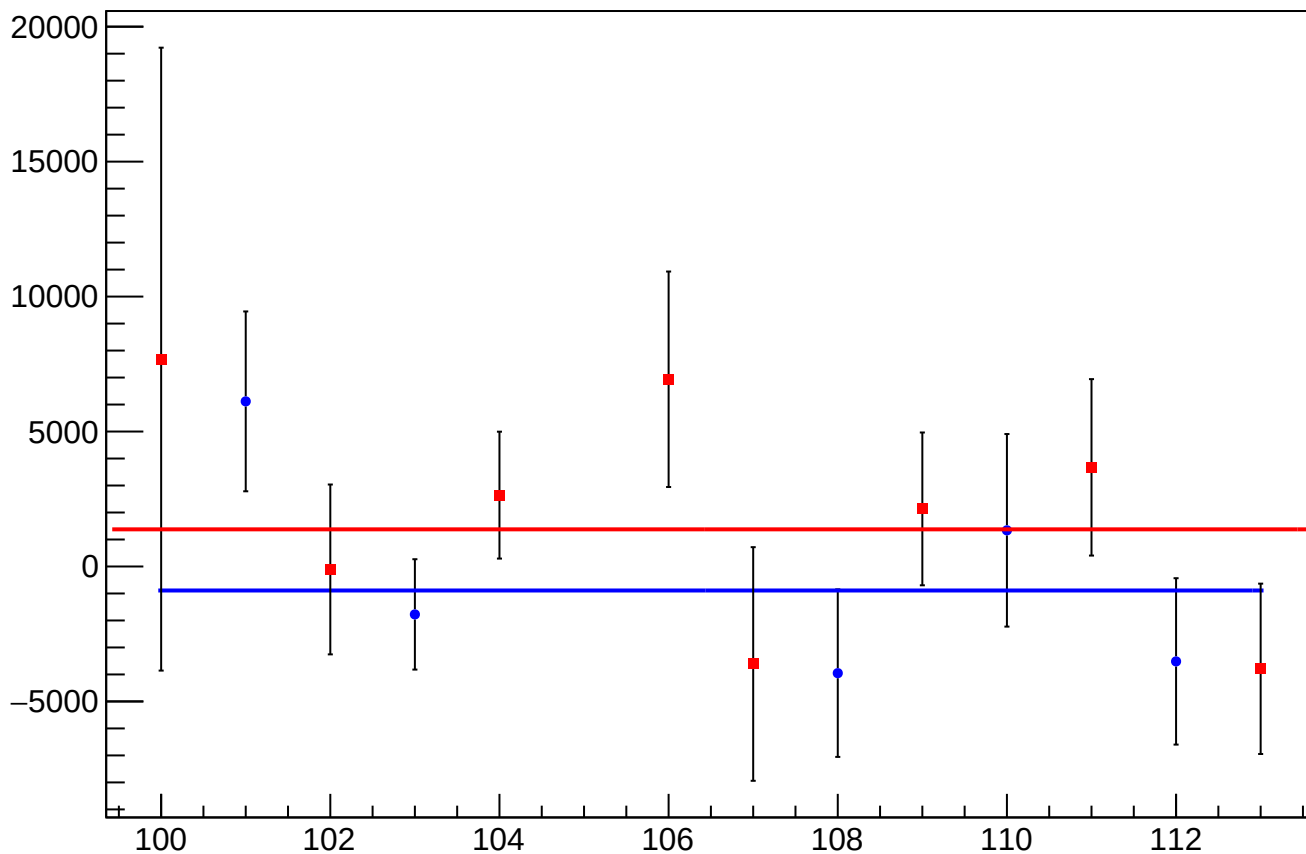
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 615.965+/-0.367  $\chi^2/\text{NDF}$ : 8244298.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -889.227+/-1273.131  $\chi^2/\text{NDF}$ : 6.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1376.109+/-1174.927  $\chi^2/\text{NDF}$ : 7.3/7

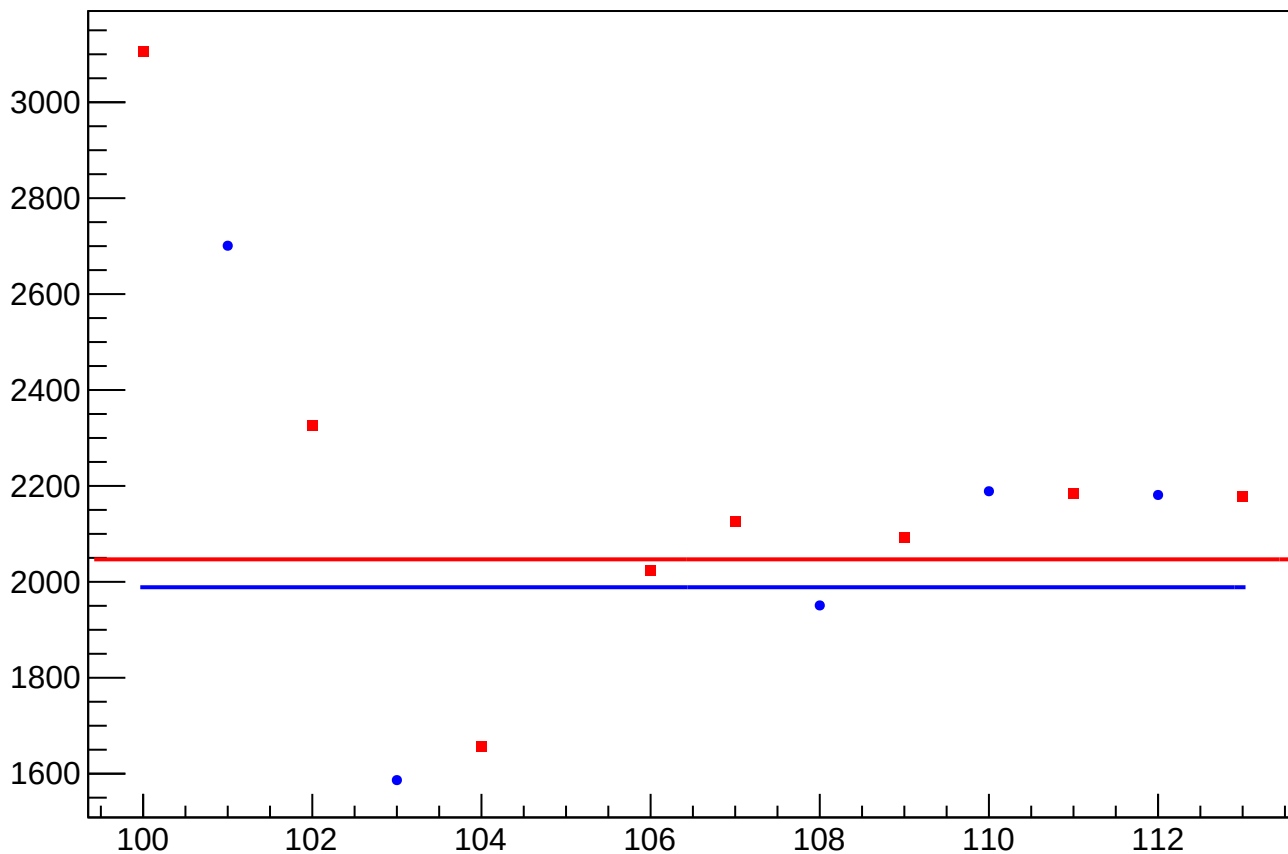
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 334.169+/-863.432  $\chi^2/\text{NDF}$ : 15.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1988.758 $\pm$ 0.900  $\chi^2$ /NDF: 183124.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2046.931 $\pm$ 0.829  $\chi^2$ /NDF: 95761.9/7

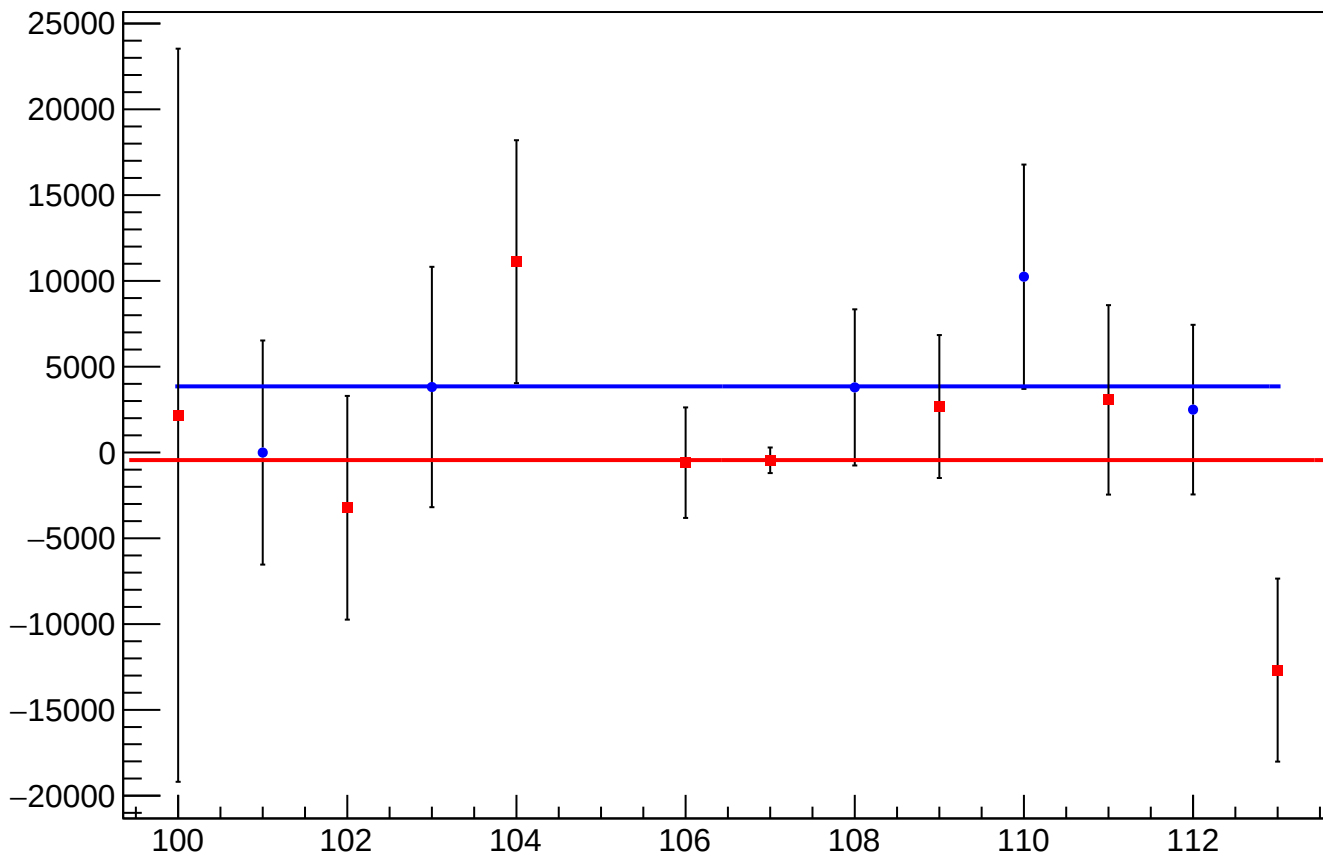
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2020.242 $\pm$ 0.610  $\chi^2$ /NDF: 281146.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_dit\_correction\_mean vs Slug



Right In: 3853.849 $\pm$ 2528.062  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -442.108 $\pm$ -695.718  $\chi^2$ /NDF: 9.1/7

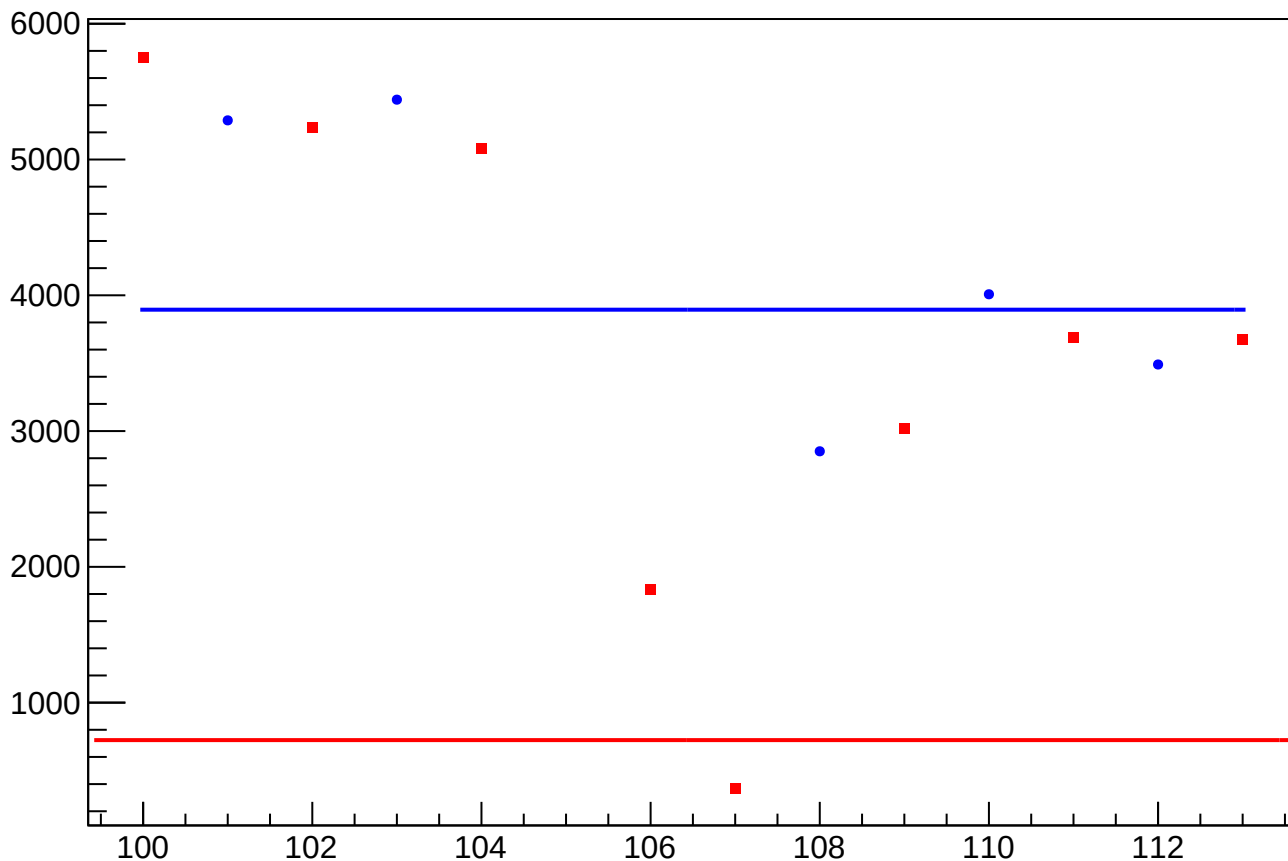
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -139.664 $\pm$ -670.781  $\chi^2$ /NDF: 13.2/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_dit\_correction\_rms vs Slug



Right In: 3893.997 $\pm$ 1.788  $\chi^2$ /NDF: 307745.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 723.924 $\pm$ 0.492  $\chi^2$ /NDF: 4317672.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

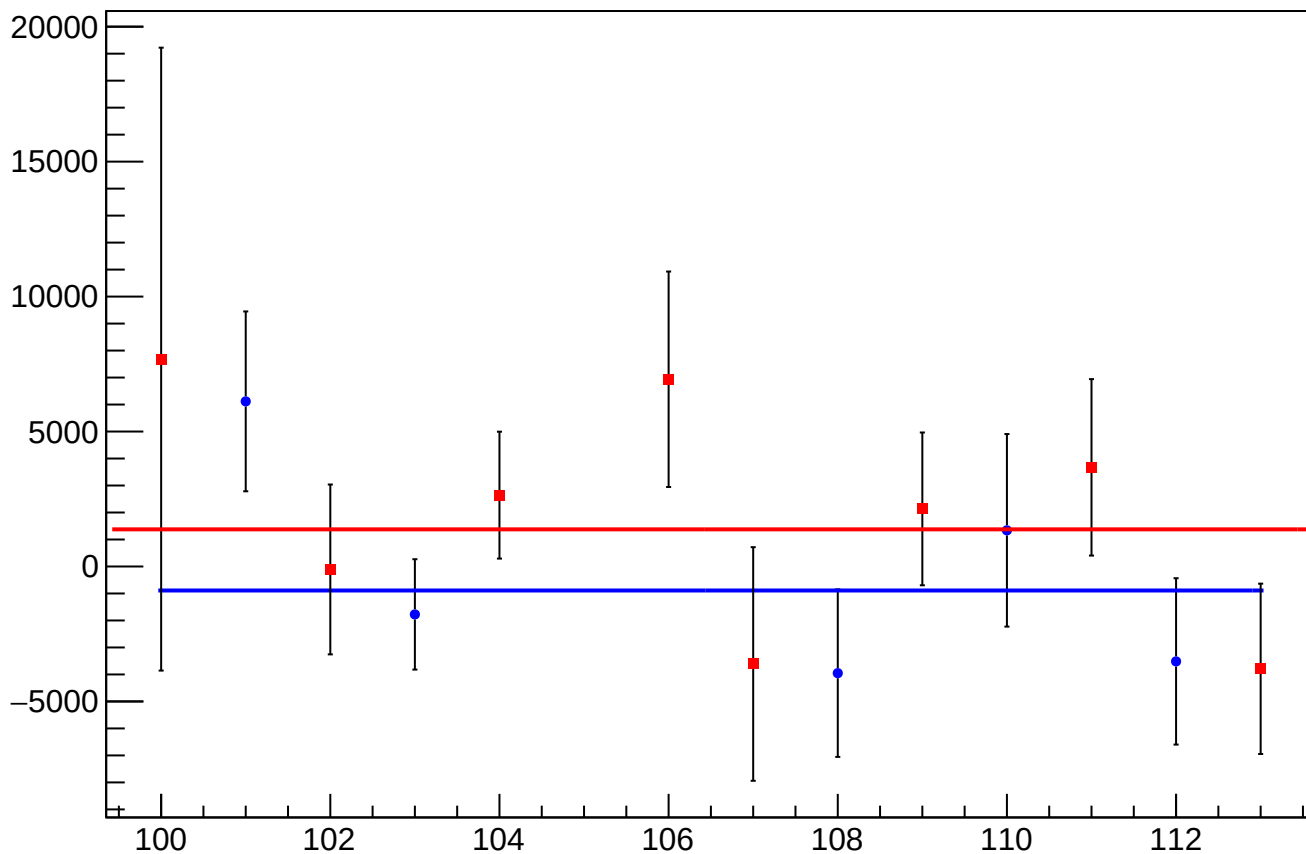
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 947.104 $\pm$ 0.474  $\chi^2$ /NDF: 7548818.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_dit\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -889.227+/-1273.131  $\chi^2/\text{NDF}$ : 6.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1376.118+/-1174.928  $\chi^2/\text{NDF}$ : 7.3/7

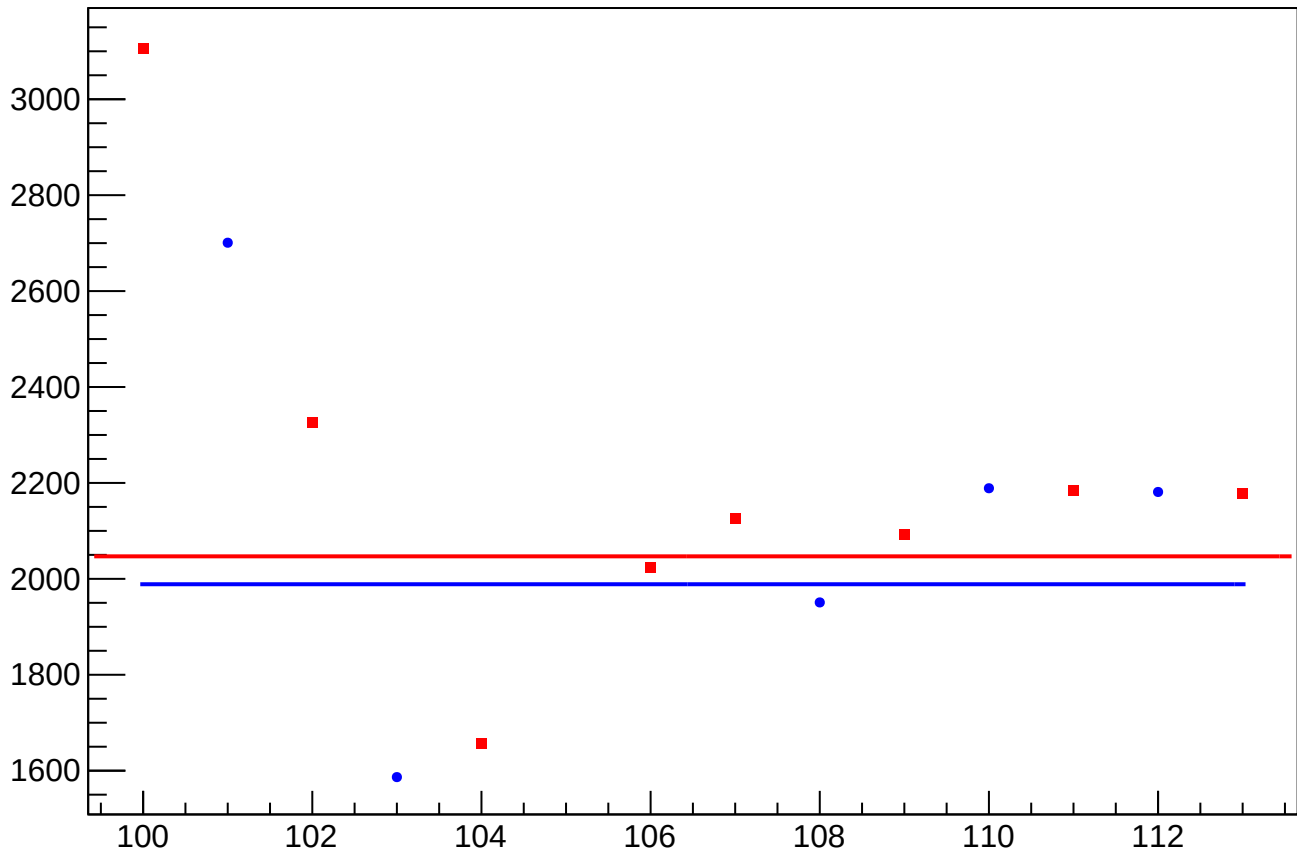
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 334.174+/-863.432  $\chi^2/\text{NDF}$ : 15.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1988.758 $\pm$ 0.900  $\chi^2/\text{NDF}$ : 183124.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2046.931 $\pm$ 0.829  $\chi^2/\text{NDF}$ : 95761.8/7

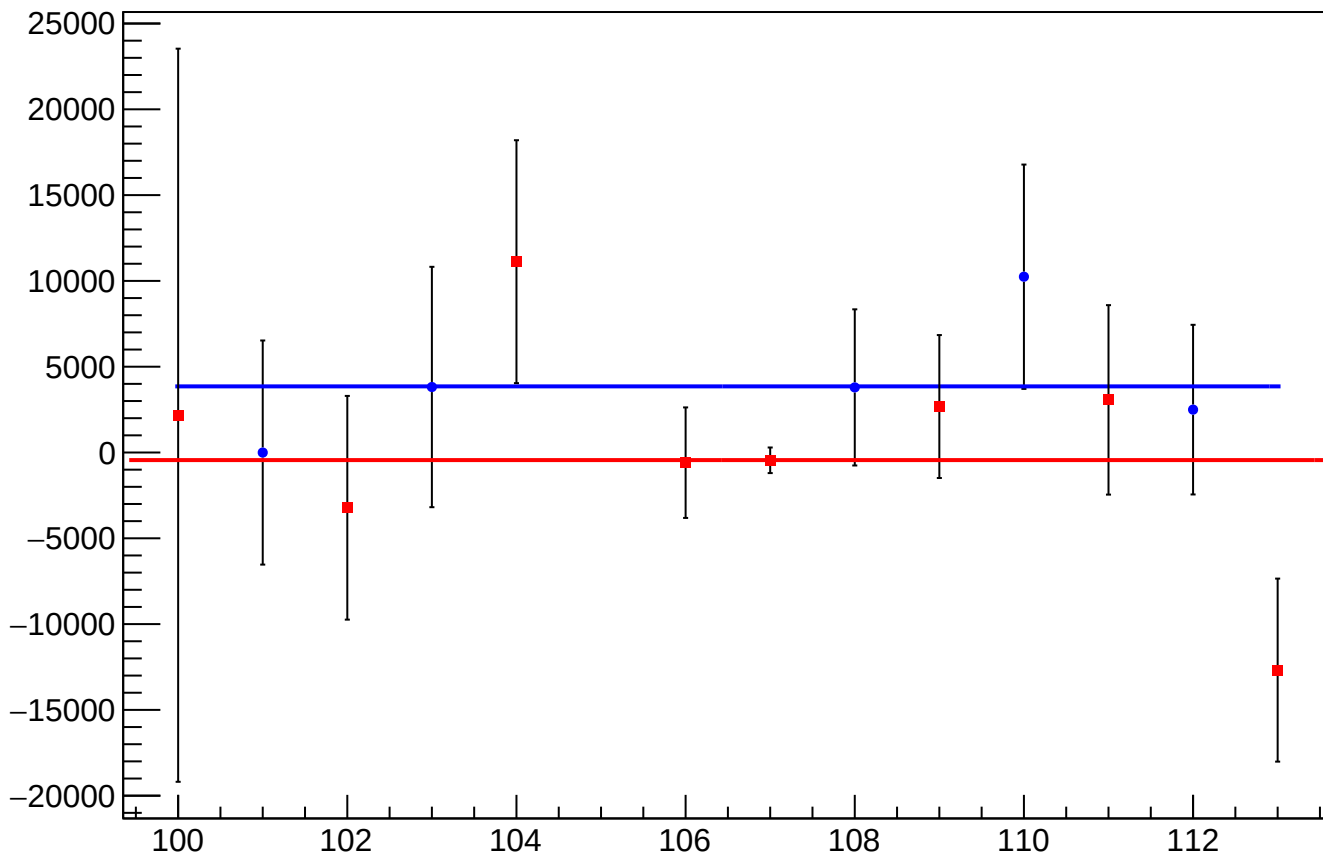
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2020.242 $\pm$ 0.610  $\chi^2/\text{NDF}$ : 281145.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 3853.850+/-2528.060  $\chi^2/\text{NDF}$ : 1.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -442.115+/-695.731  $\chi^2/\text{NDF}$ : 9.1/7

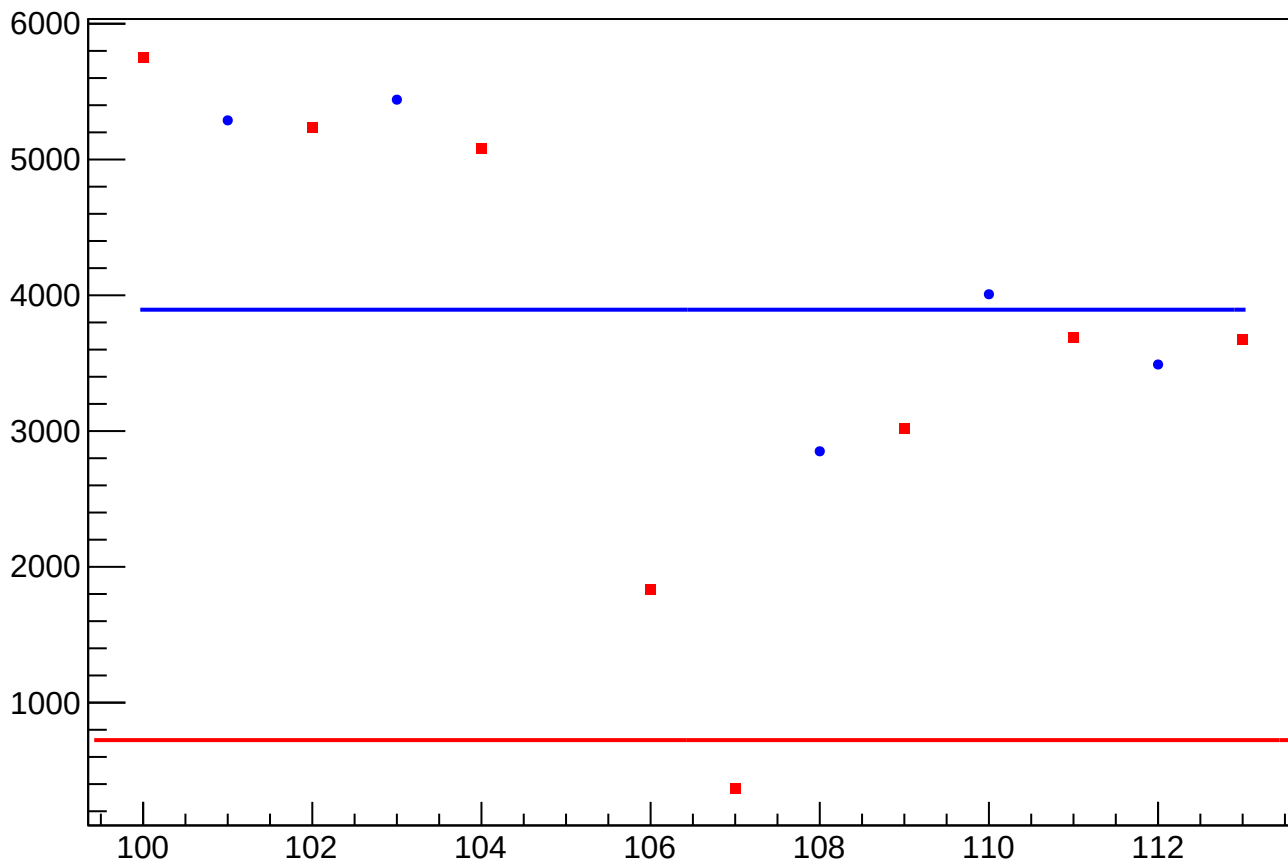
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -139.659+/-670.792  $\chi^2/\text{NDF}$ : 13.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 3893.995 $\pm$ 1.788  $\chi^2$ /NDF: 307744.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 723.945 $\pm$ 0.492  $\chi^2$ /NDF: 4317629.4/7

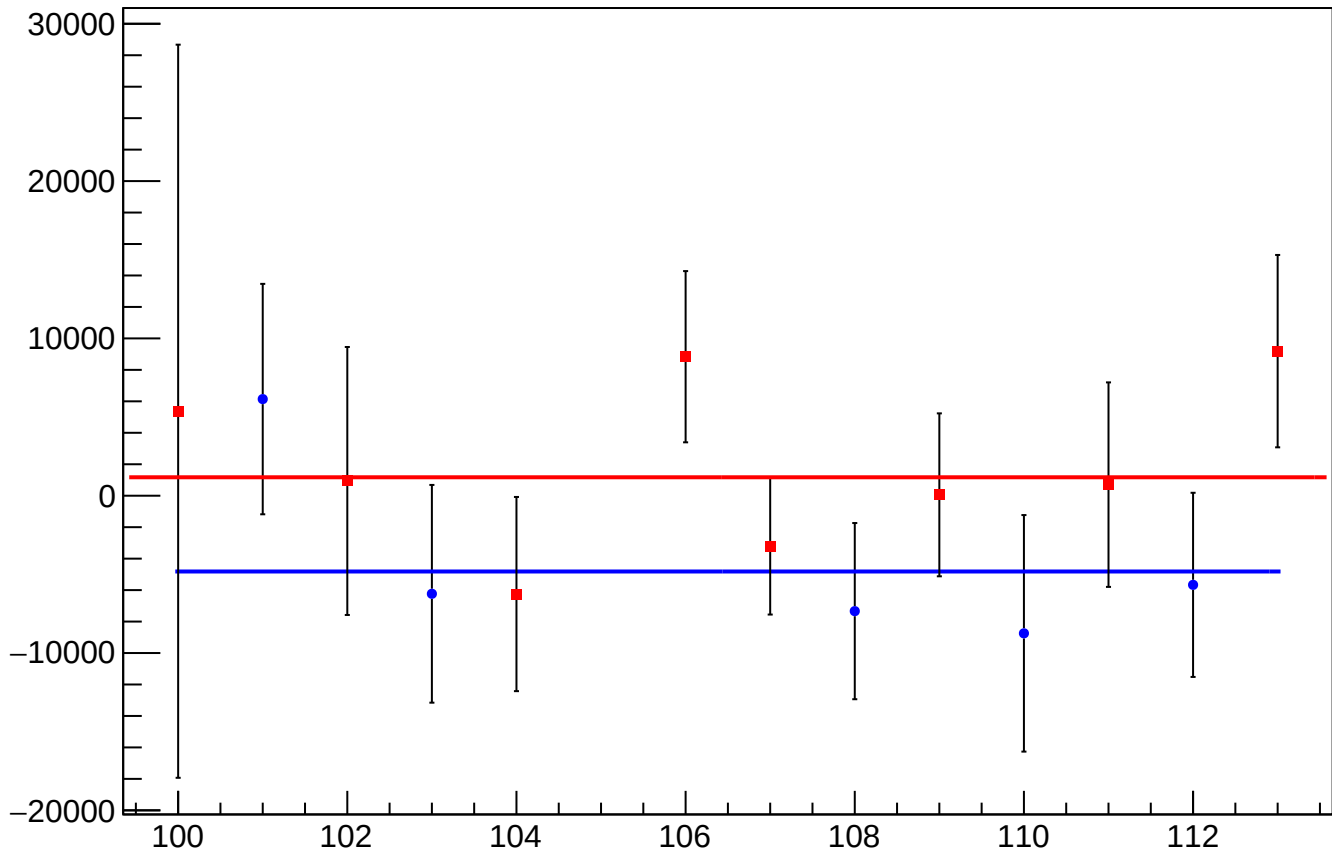
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 947.131 $\pm$ 0.474  $\chi^2$ /NDF: 7548728.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_mean vs Slug



Right In: -4816.706+/-2907.532  $\chi^2/\text{NDF}$ : 2.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1172.056+/-2151.595  $\chi^2/\text{NDF}$ : 6.2/7

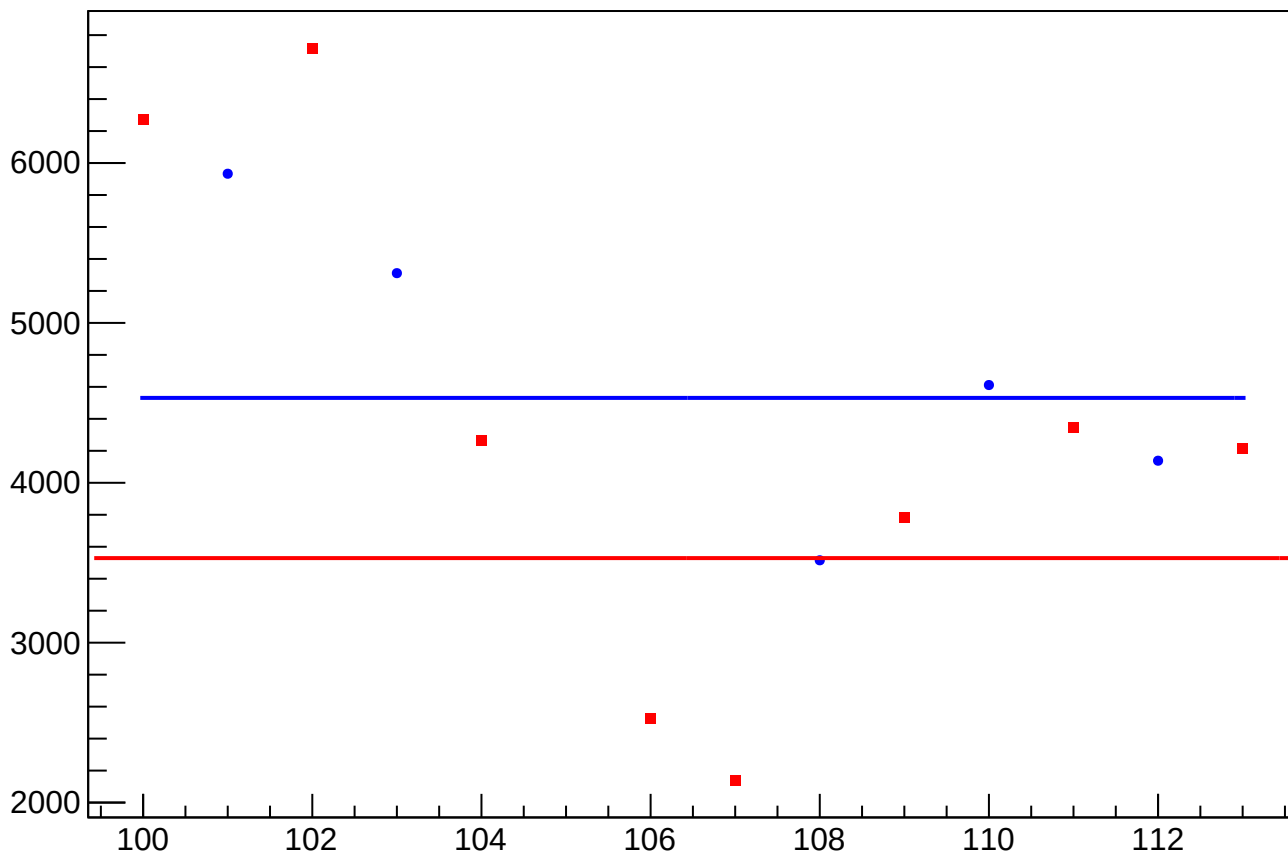
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -947.024+/-1729.536  $\chi^2/\text{NDF}$ : 11.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_rms vs Slug



Right In: 4530.991 $\pm$ 2.056  $\chi^2$ /NDF: 173748.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3528.989 $\pm$ 1.493  $\chi^2$ /NDF: 685731.7/7

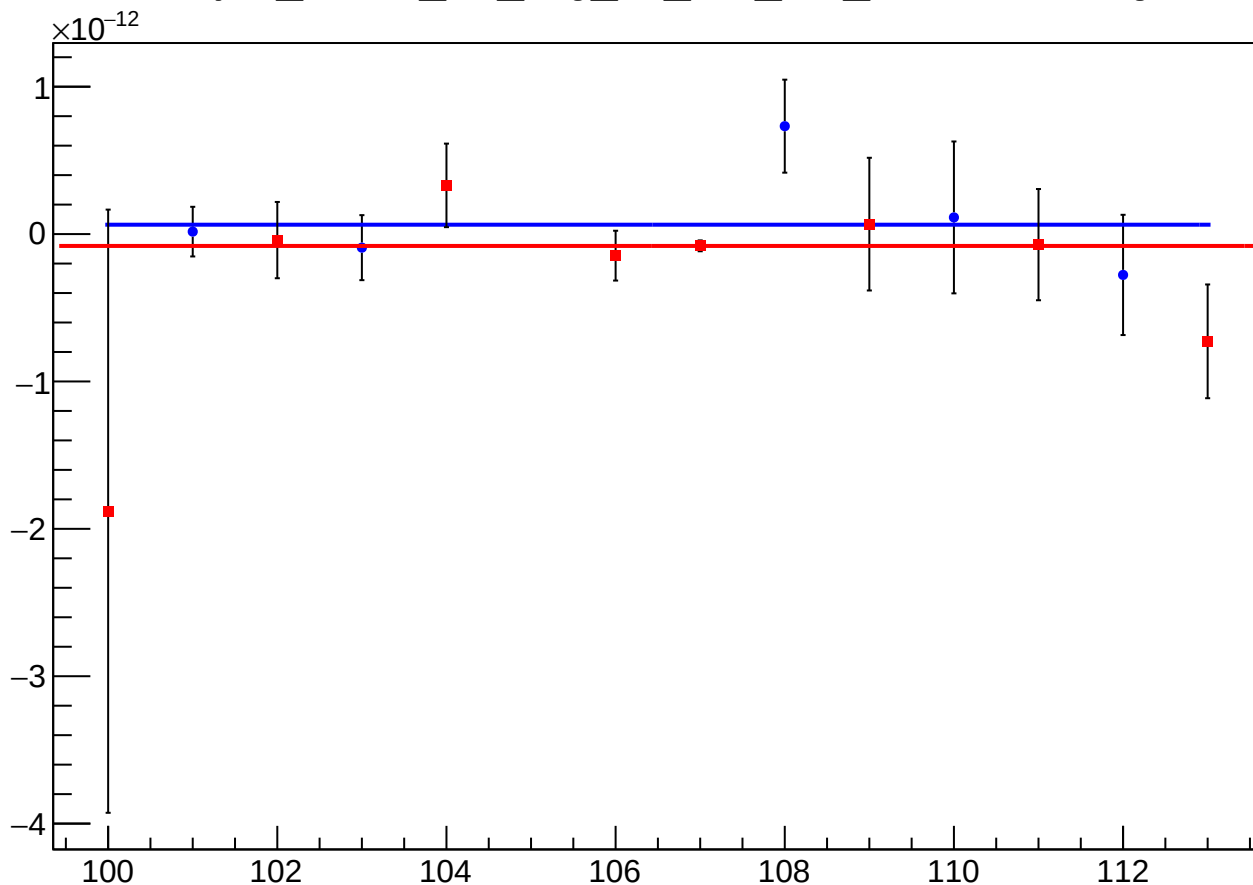
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3874.837 $\pm$ 1.208  $\chi^2$ /NDF: 1015025.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.0/7

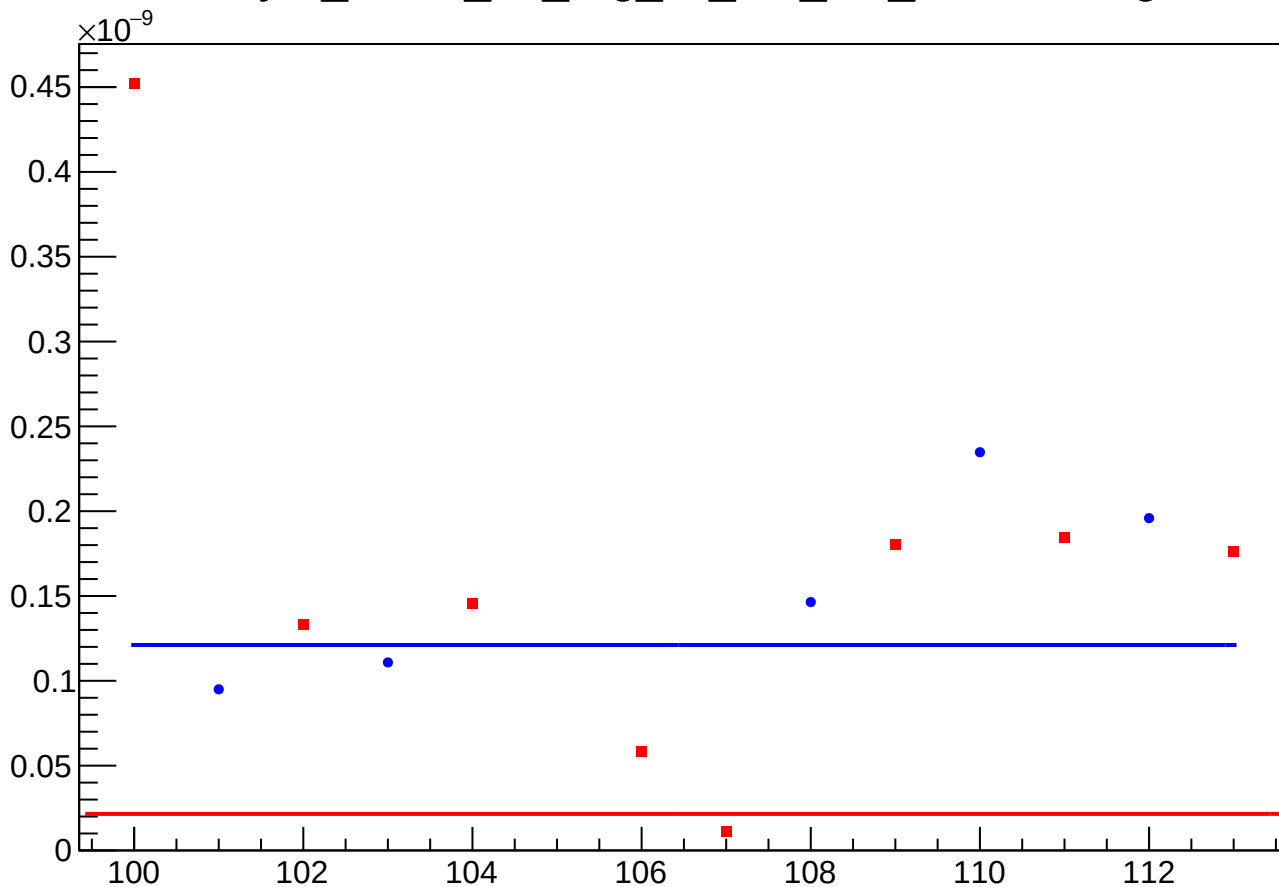
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 229740.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2034739.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

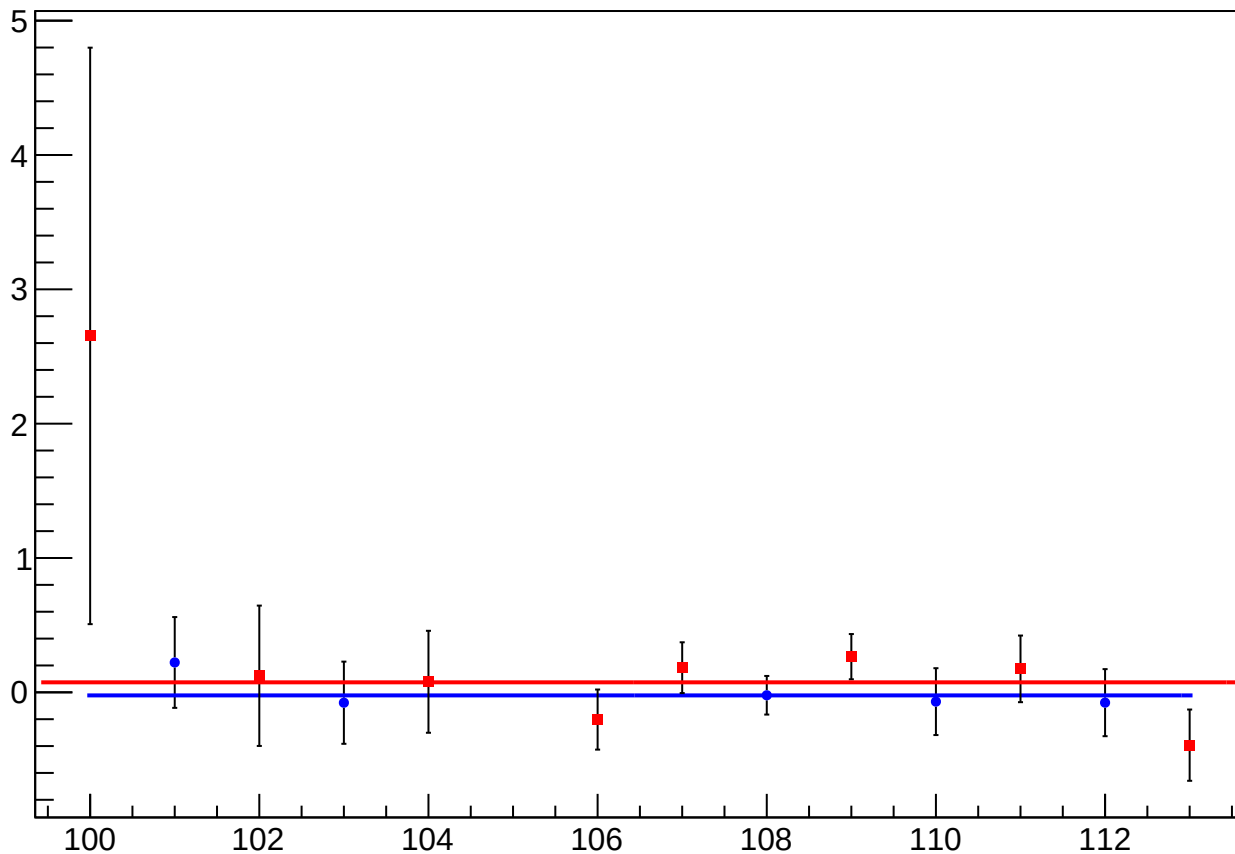
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3636702.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl1r2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.023 \pm 0.100$   $\chi^2/\text{NDF}$ : 0.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.074 \pm 0.090$   $\chi^2/\text{NDF}$ : 7.9/7

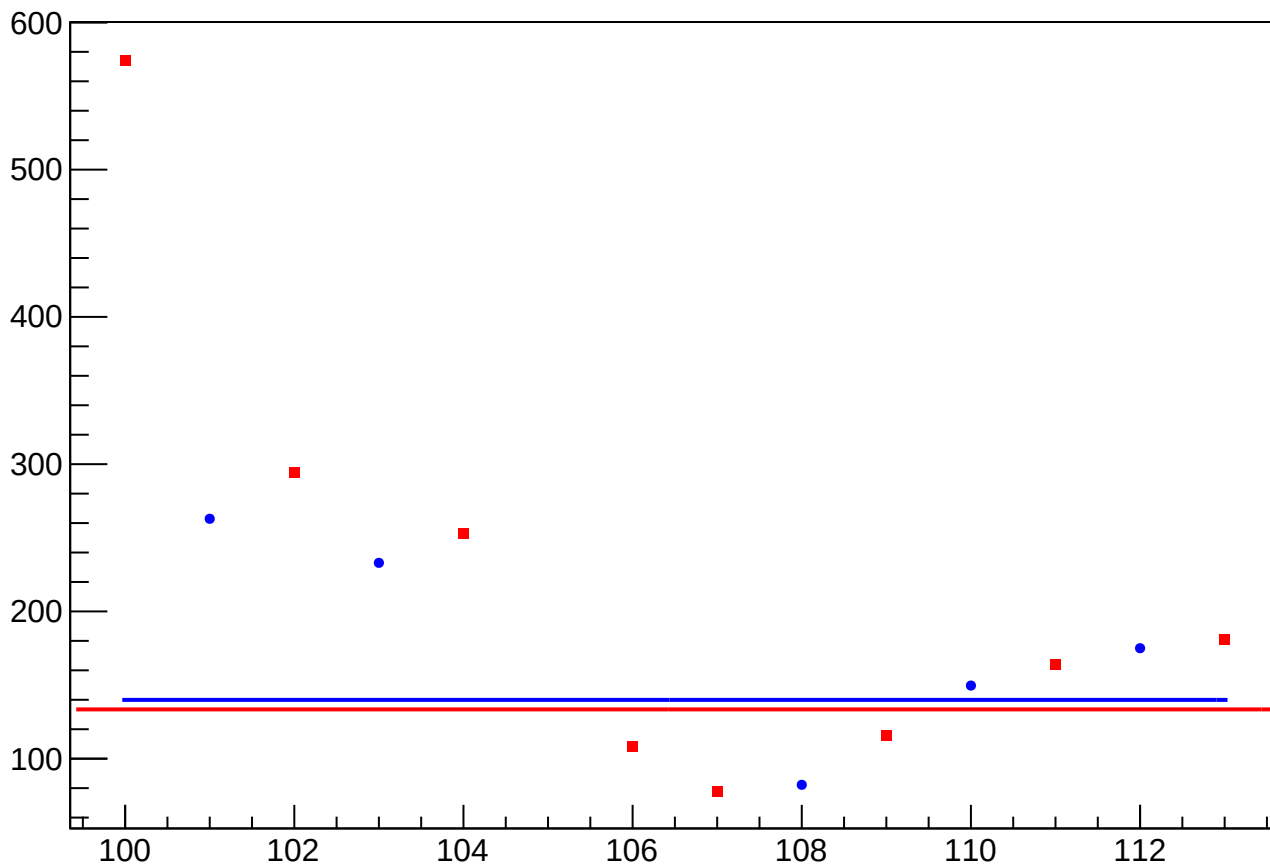
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.031 \pm 0.067$   $\chi^2/\text{NDF}$ : 9.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.929 $\pm$ 0.071  $\chi^2$ /NDF: 814536.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 133.467 $\pm$ 0.063  $\chi^2$ /NDF: 790611.7/7

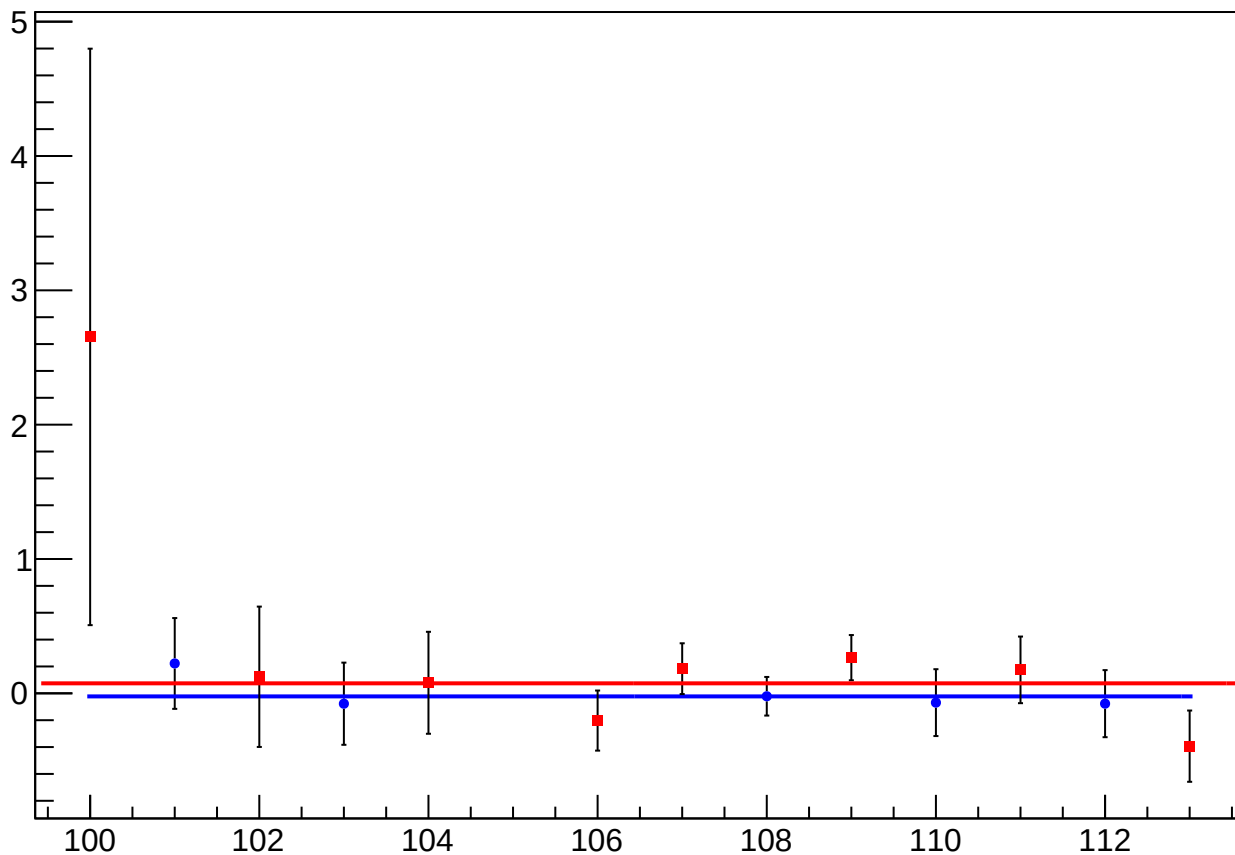
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 136.346 $\pm$ 0.047  $\chi^2$ /NDF: 1609782.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.023+/-0.100  $\chi^2/\text{NDF}$ : 0.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.074+/-0.090  $\chi^2/\text{NDF}$ : 7.9/7

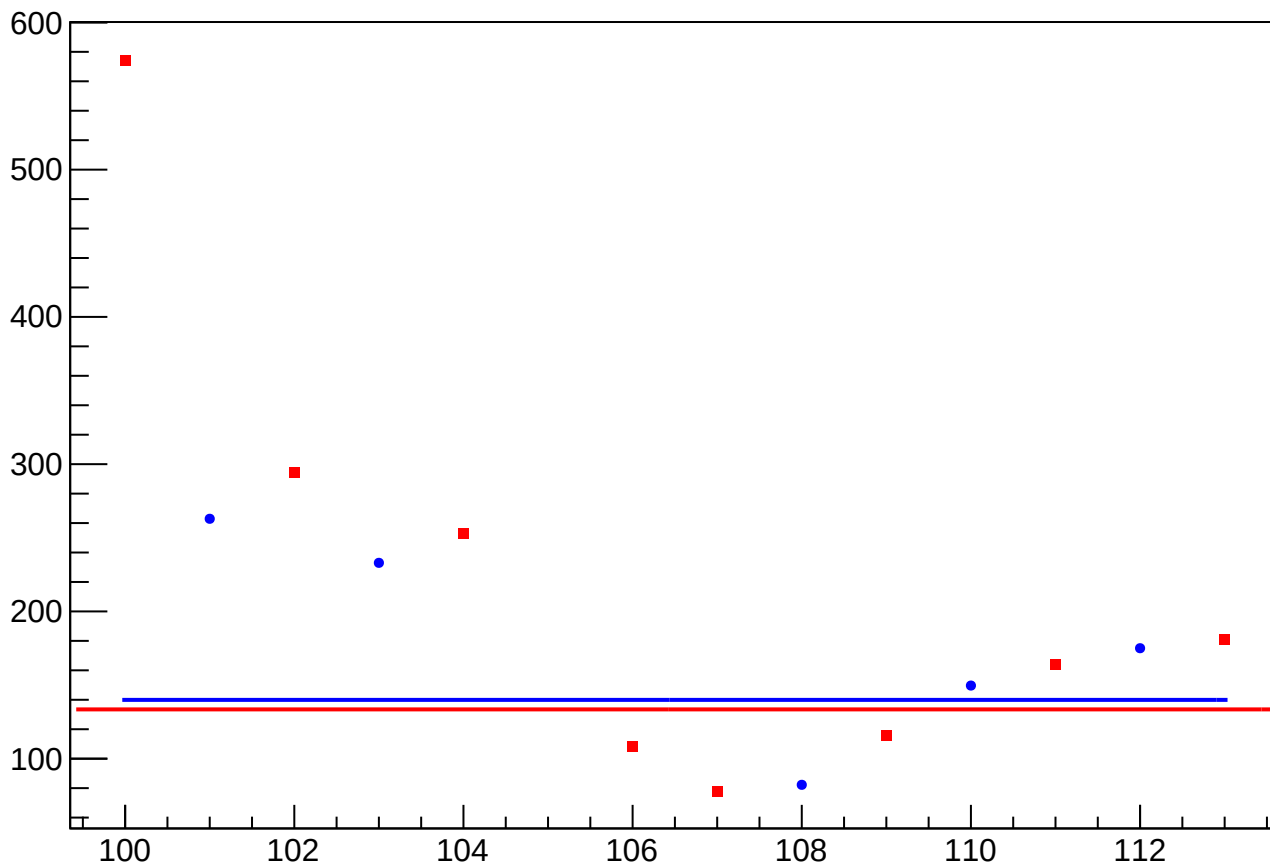
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.031+/-0.067  $\chi^2/\text{NDF}$ : 9.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In:  $139.929 \pm 0.071$   $\chi^2/\text{NDF}: 814536.9/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $133.467 \pm 0.063$   $\chi^2/\text{NDF}: 790611.7/7$

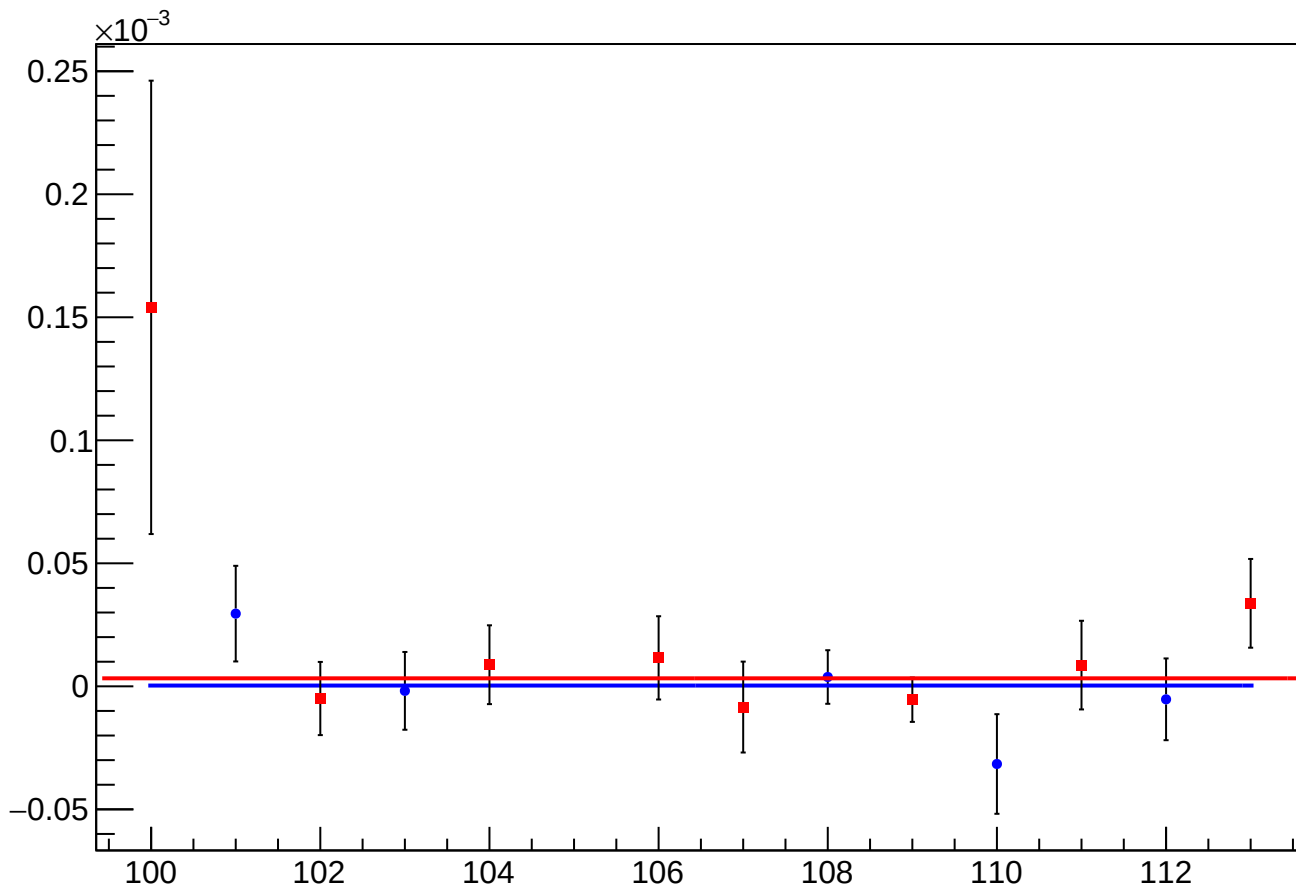
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $136.346 \pm 0.047$   $\chi^2/\text{NDF}: 1609782.5/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_atl1r2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 5.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 7.6/7

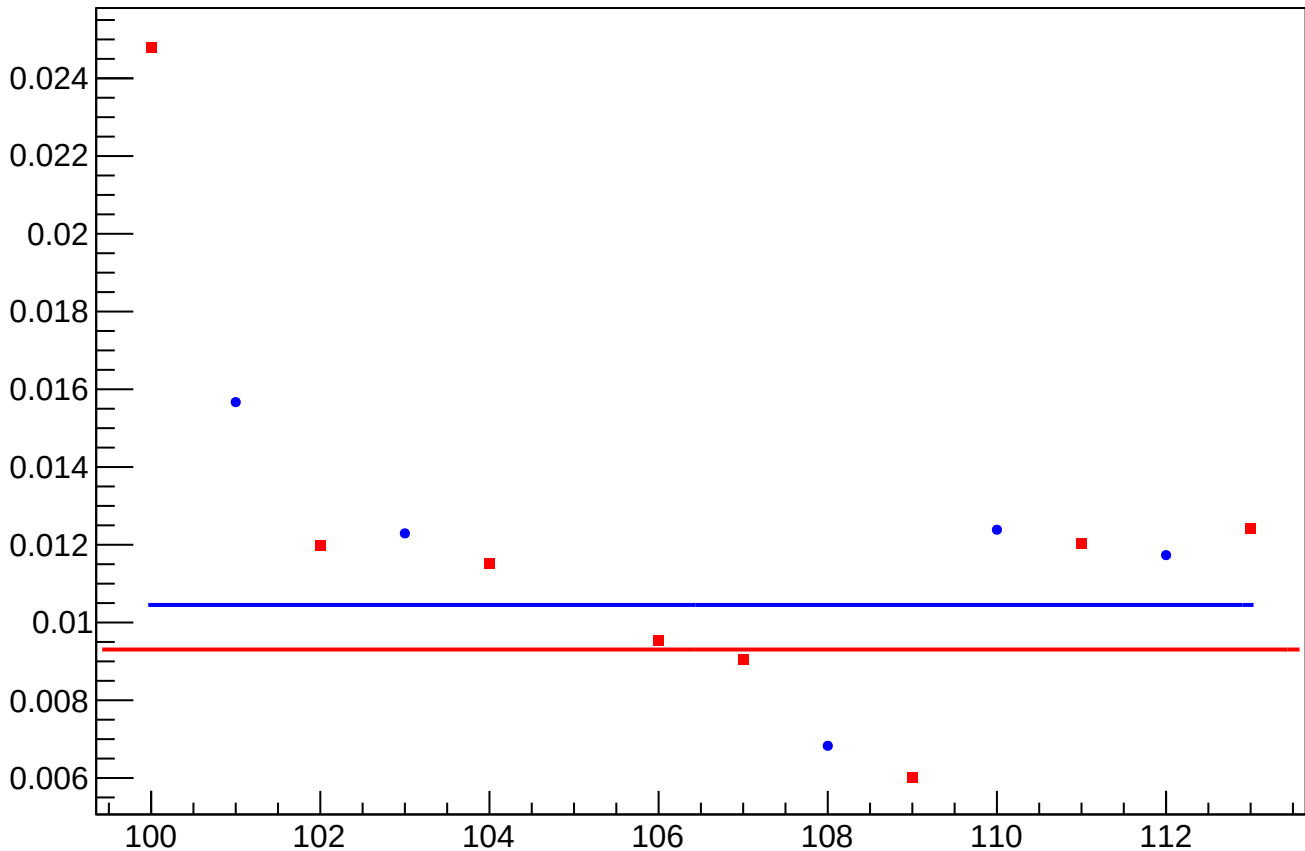
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 12.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 422833.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 532870.5/7

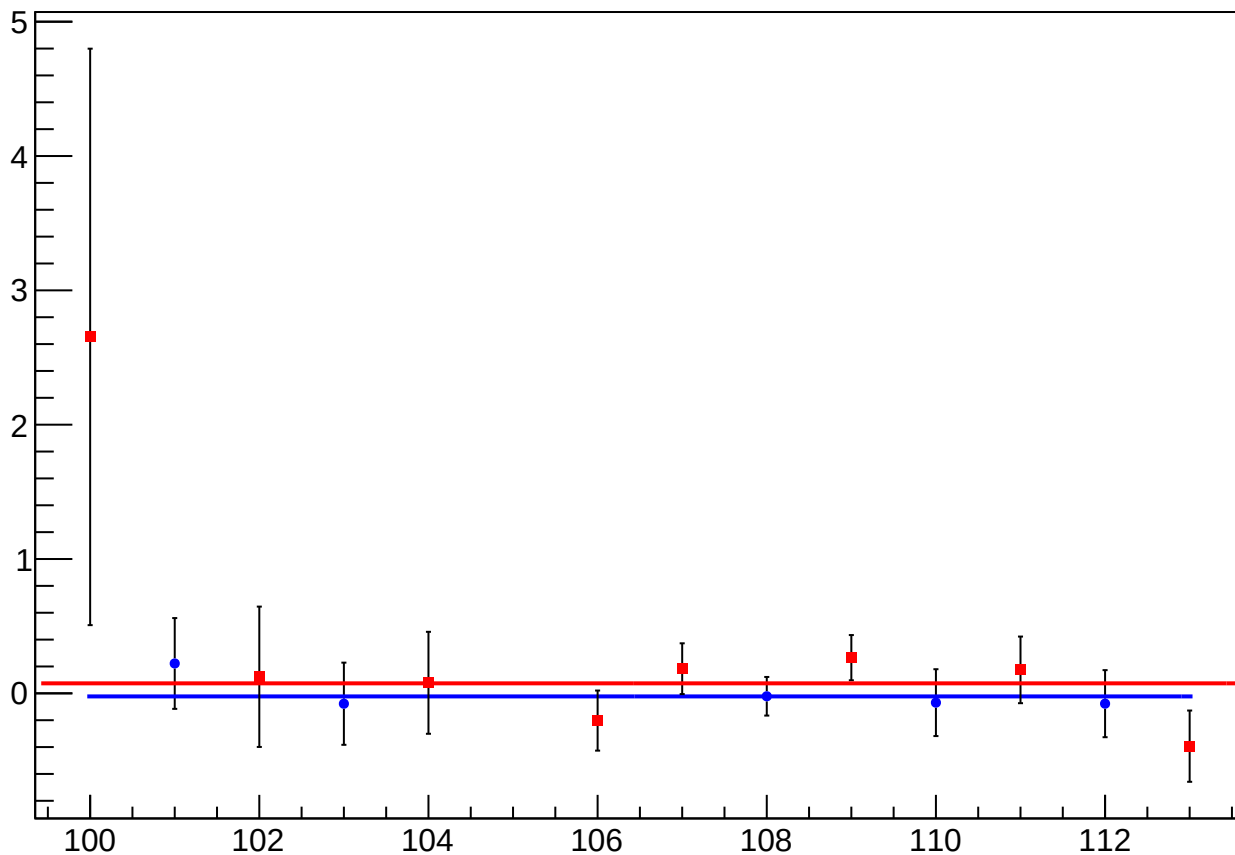
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 989783.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.023+/-0.100  $\chi^2/\text{NDF}$ : 0.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.074+/-0.090  $\chi^2/\text{NDF}$ : 7.9/7

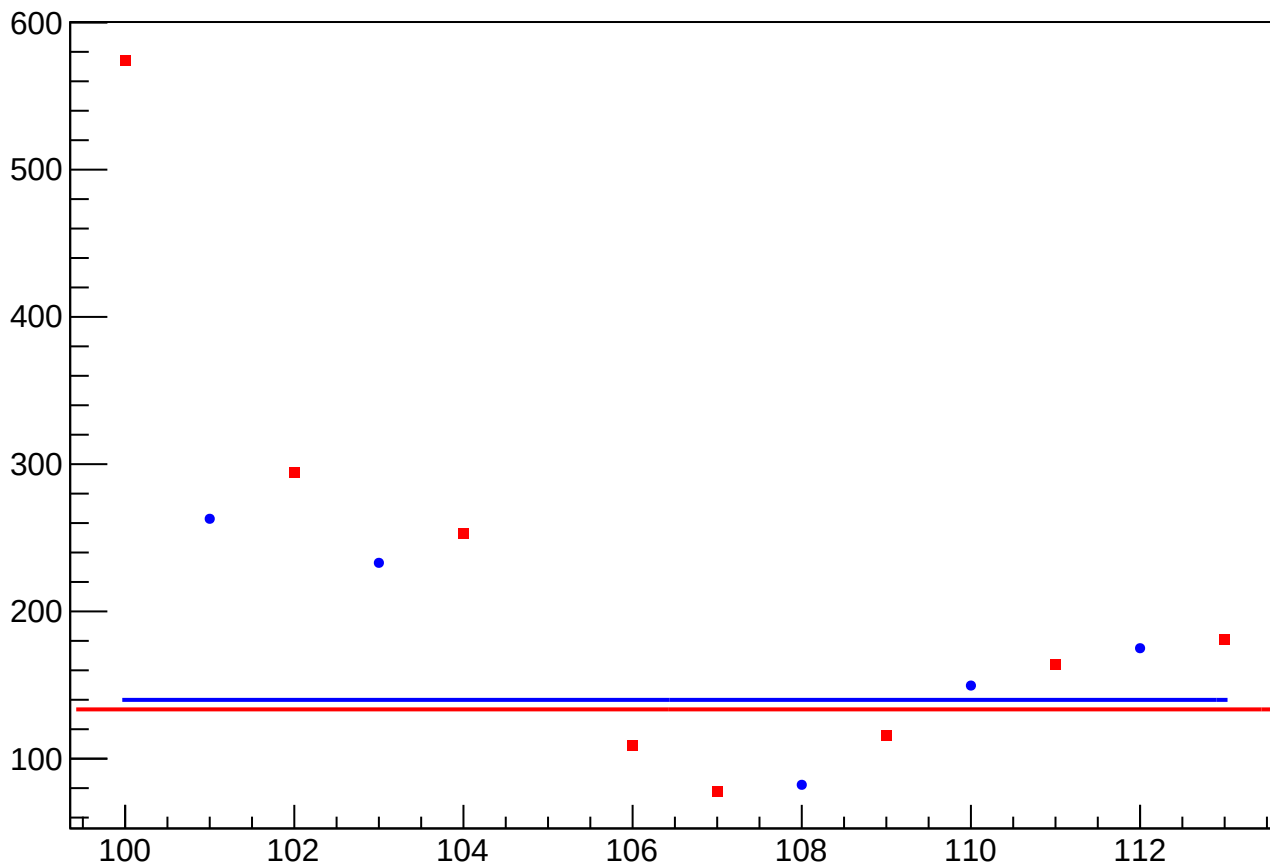
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.031+/-0.067  $\chi^2/\text{NDF}$ : 9.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.930 $\pm$ 0.071  $\chi^2$ /NDF: 814544.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 133.467 $\pm$ 0.063  $\chi^2$ /NDF: 790638.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

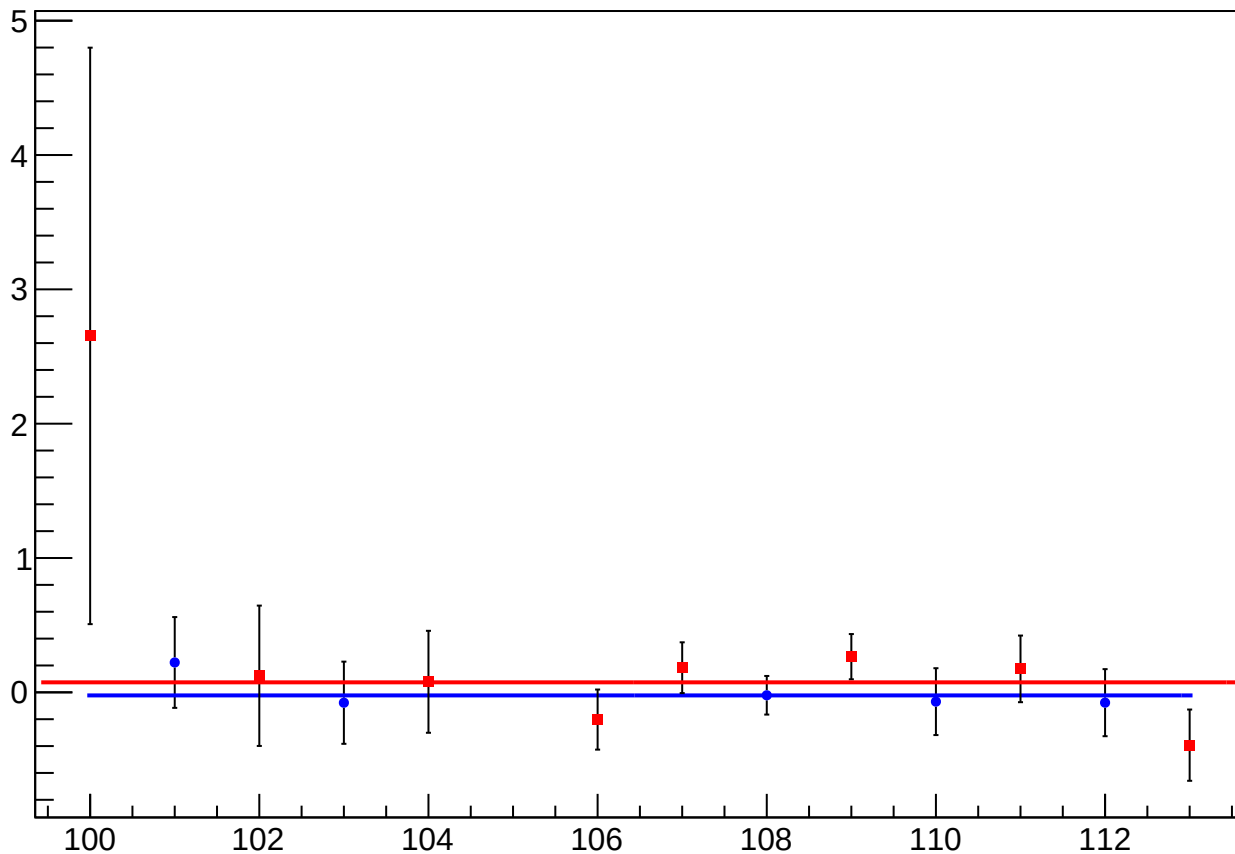
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 136.346 $\pm$ 0.047  $\chi^2$ /NDF: 1609817.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_atl1r2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.023+/-0.100  $\chi^2/\text{NDF}$ : 0.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.074+/-0.090  $\chi^2/\text{NDF}$ : 7.9/7

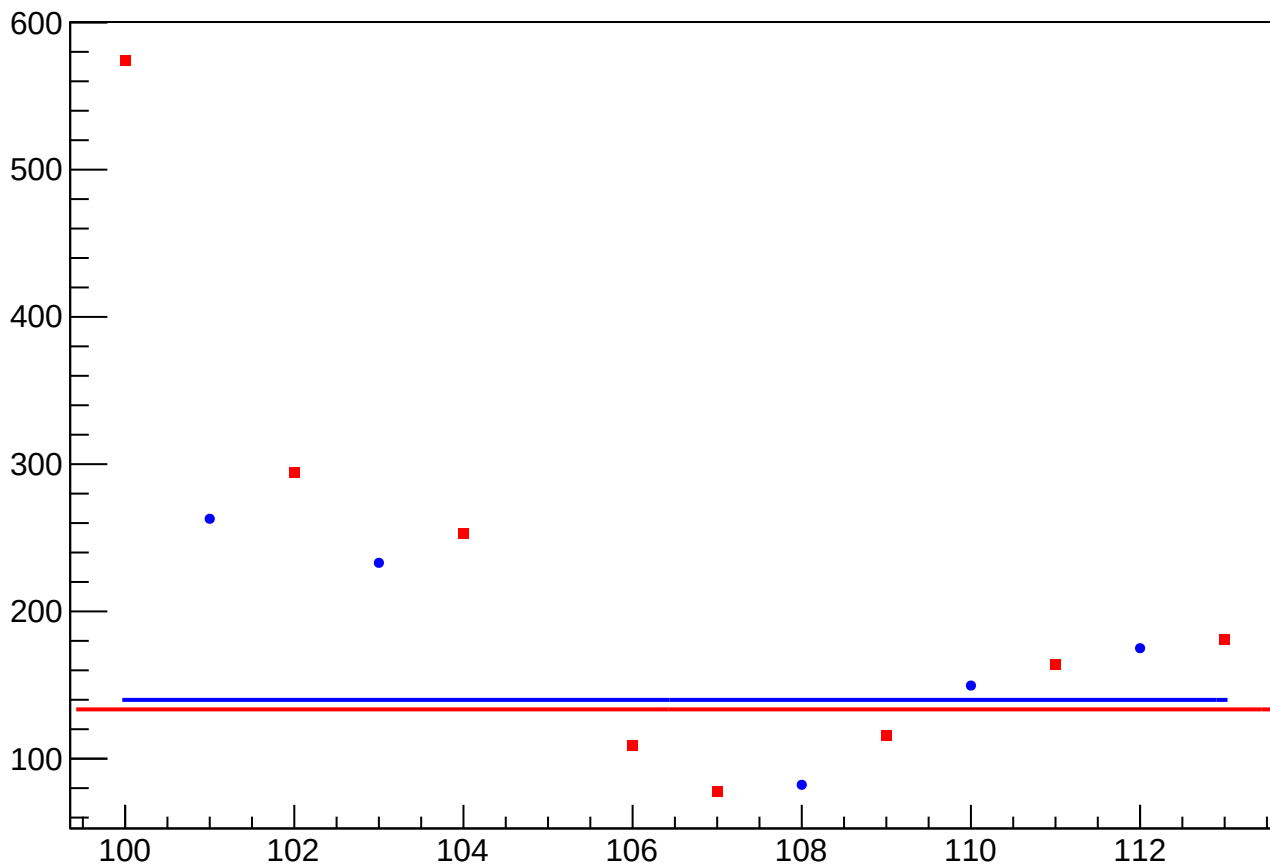
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.031+/-0.067  $\chi^2/\text{NDF}$ : 9.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.930 $\pm$ 0.071  $\chi^2$ /NDF: 814544.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 133.467 $\pm$ 0.063  $\chi^2$ /NDF: 790638.7/7

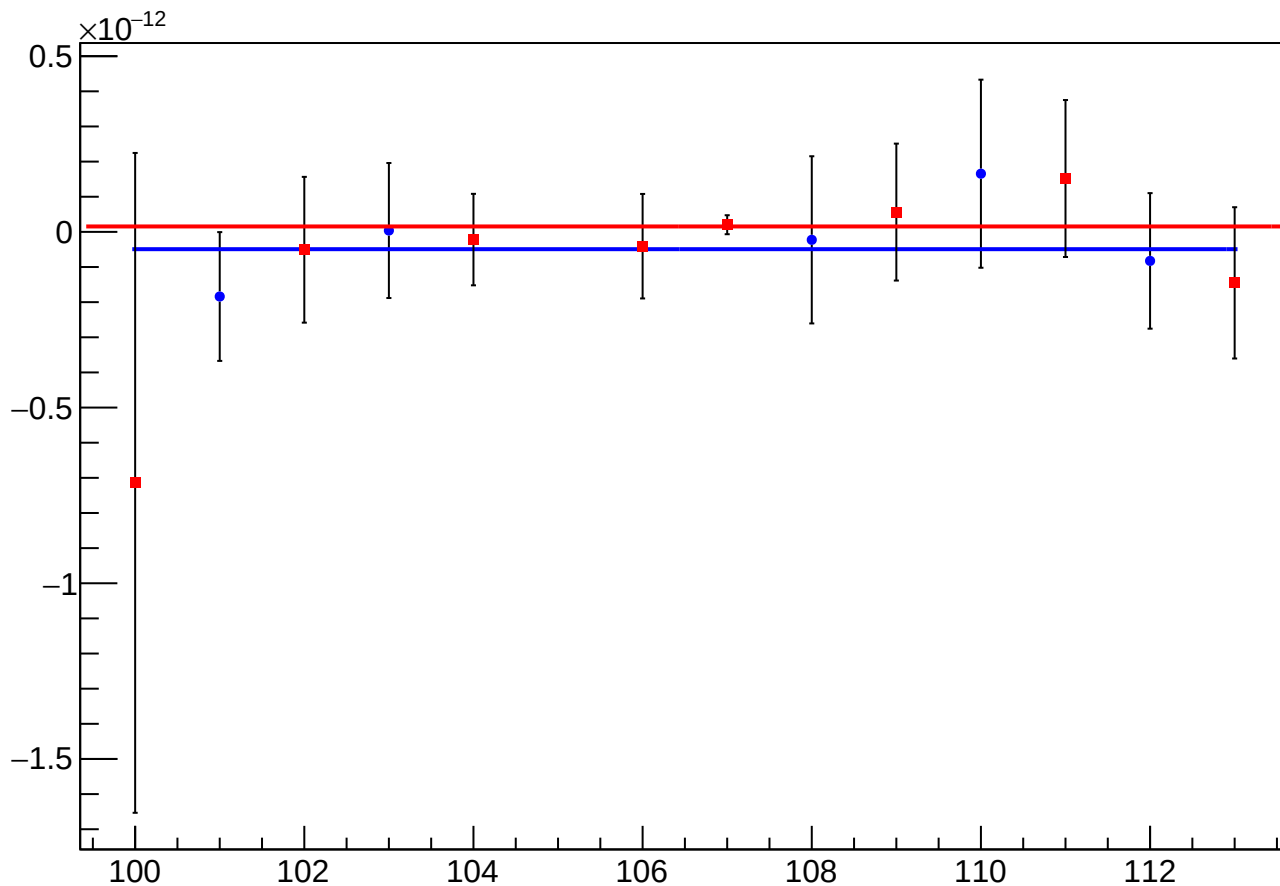
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 136.346 $\pm$ 0.047  $\chi^2$ /NDF: 1609817.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.9/7

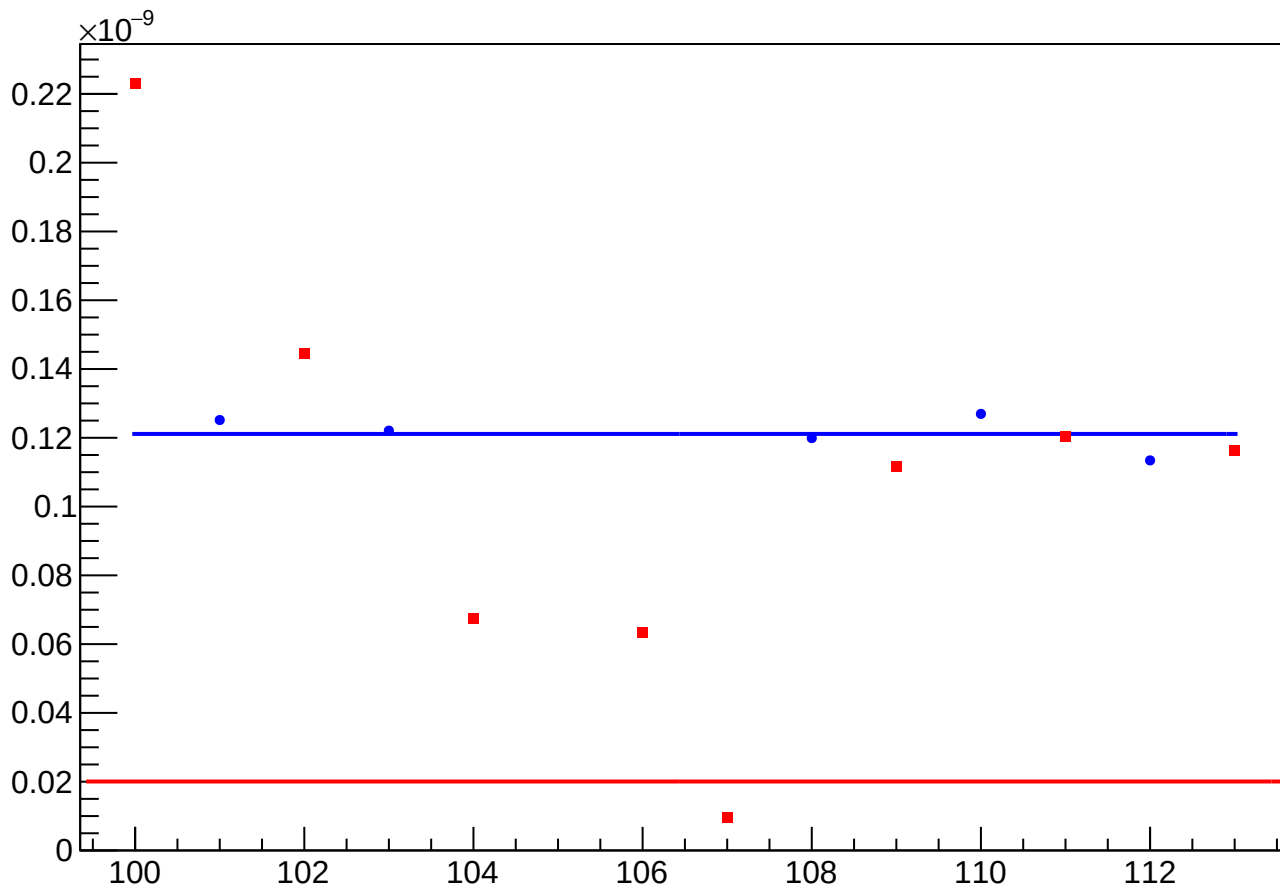
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5206.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2796133.5/7

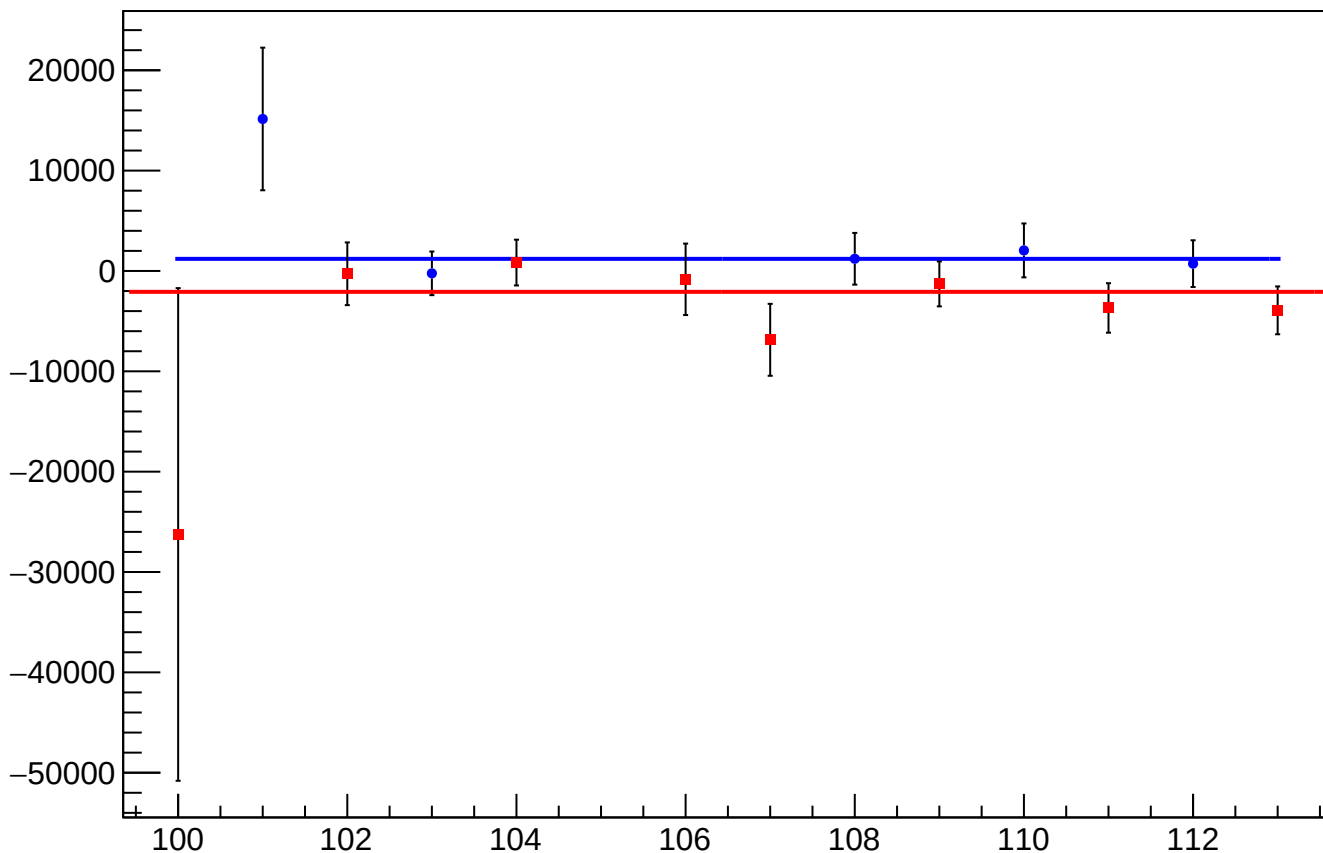
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4996853.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_avg\_mean vs Slug



Right In: 1207.203+/-1190.888  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2079.925+/-1003.783  $\chi^2/\text{NDF}$ : 6.0/7

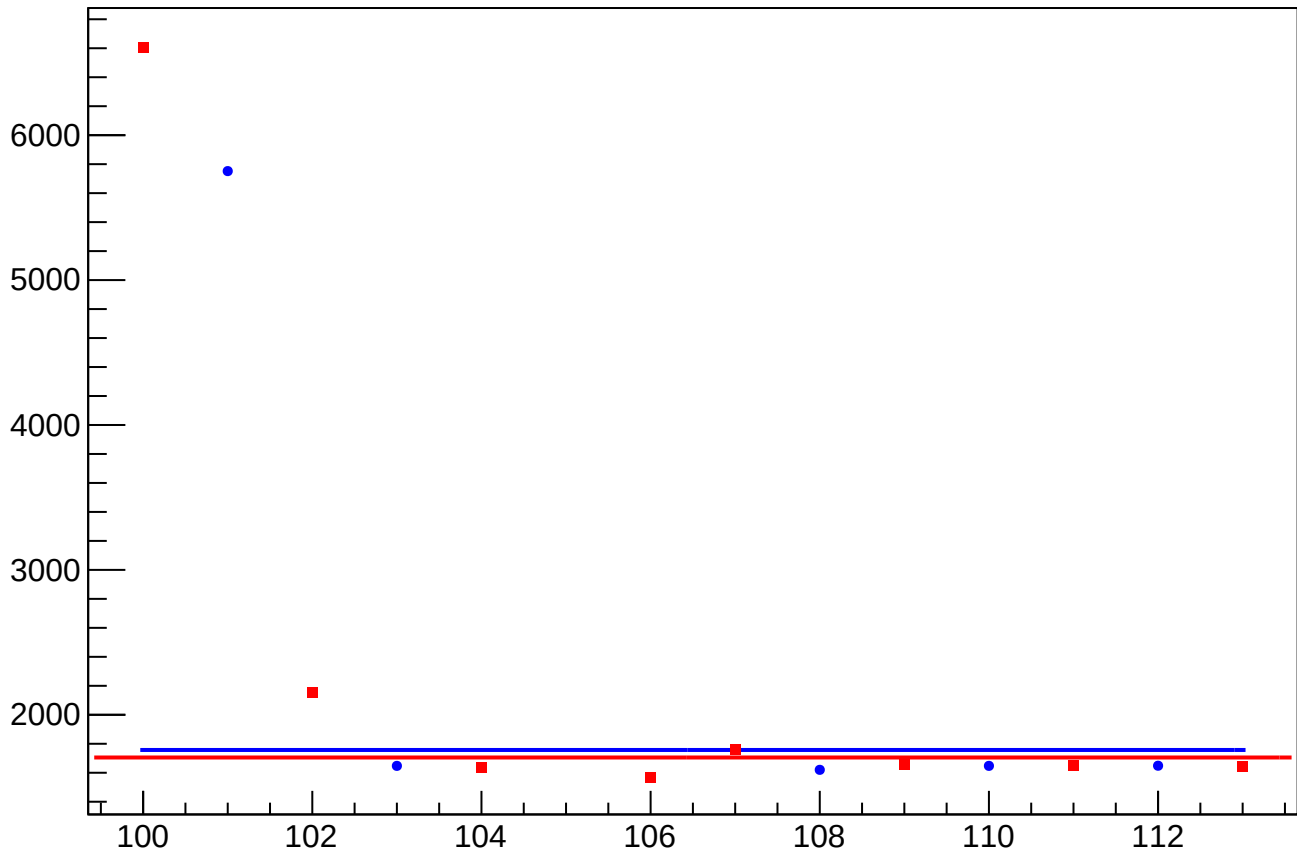
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -714.580+/-767.510  $\chi^2/\text{NDF}$ : 14.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1757.237+/-0.842  $\chi^2/\text{NDF}$ : 650627.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1705.279+/-0.698  $\chi^2/\text{NDF}$ : 131051.3/7

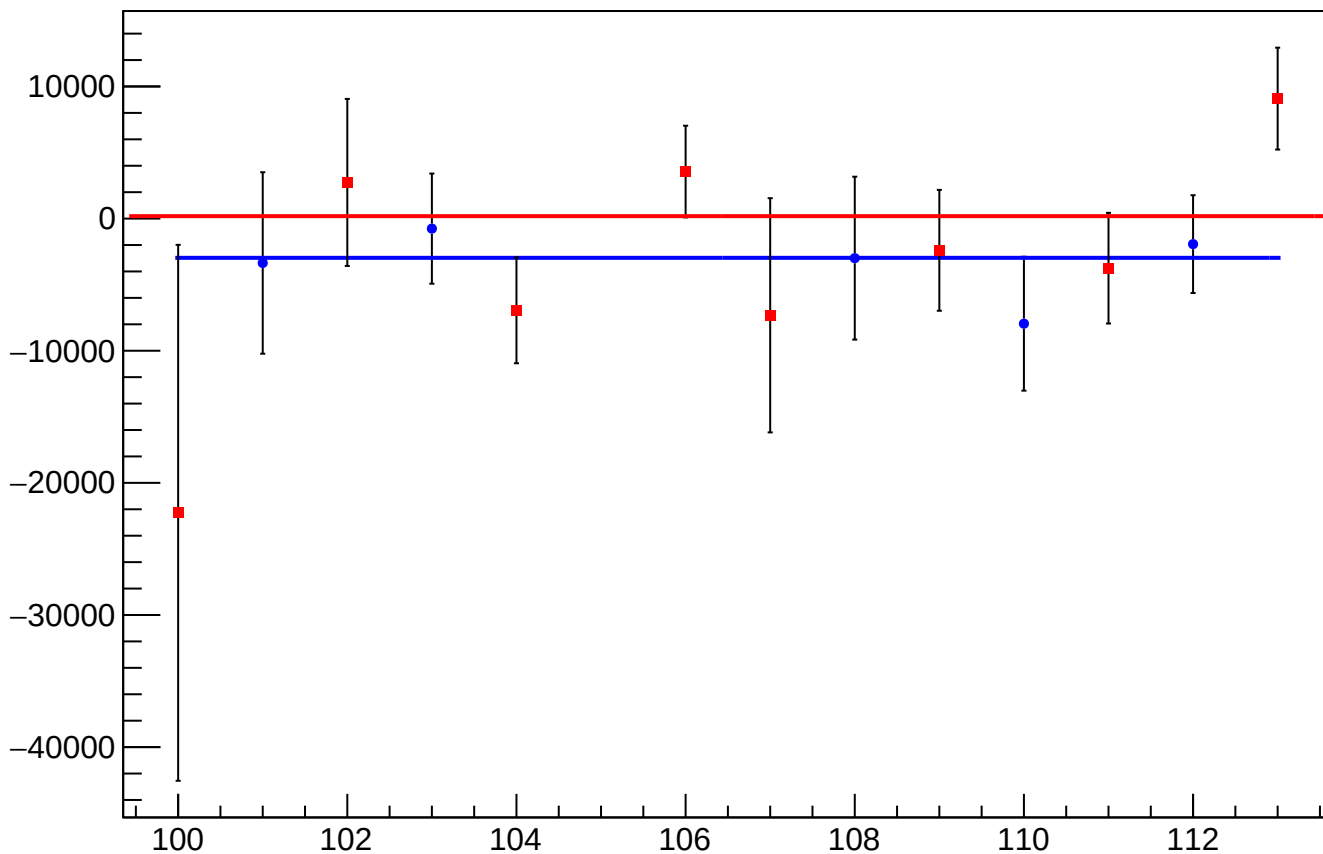
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1726.430+/-0.537  $\chi^2/\text{NDF}$ : 783936.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_reg\_correction\_mean vs Slug



Right In: -2968.452+/-2146.440  $\chi^2/\text{NDF}$ : 1.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 184.298+/-1671.906  $\chi^2/\text{NDF}$ : 12.8/7

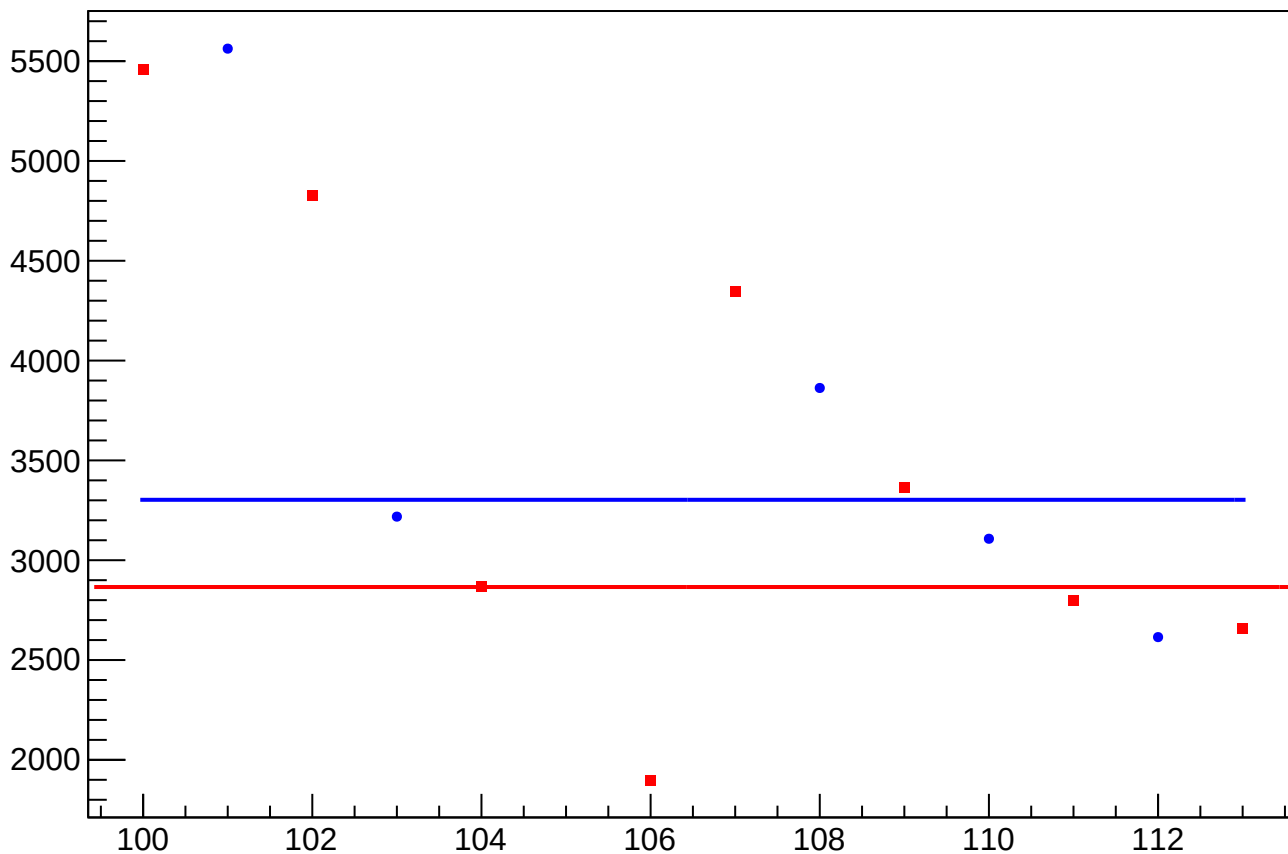
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1006.221+/-1318.992  $\chi^2/\text{NDF}$ : 15.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_reg\_correction\_rms vs Slug



Right In: 3302.646 $\pm$ 1.518  $\chi^2$ /NDF: 306014.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2865.772 $\pm$ 1.182  $\chi^2$ /NDF: 467018.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

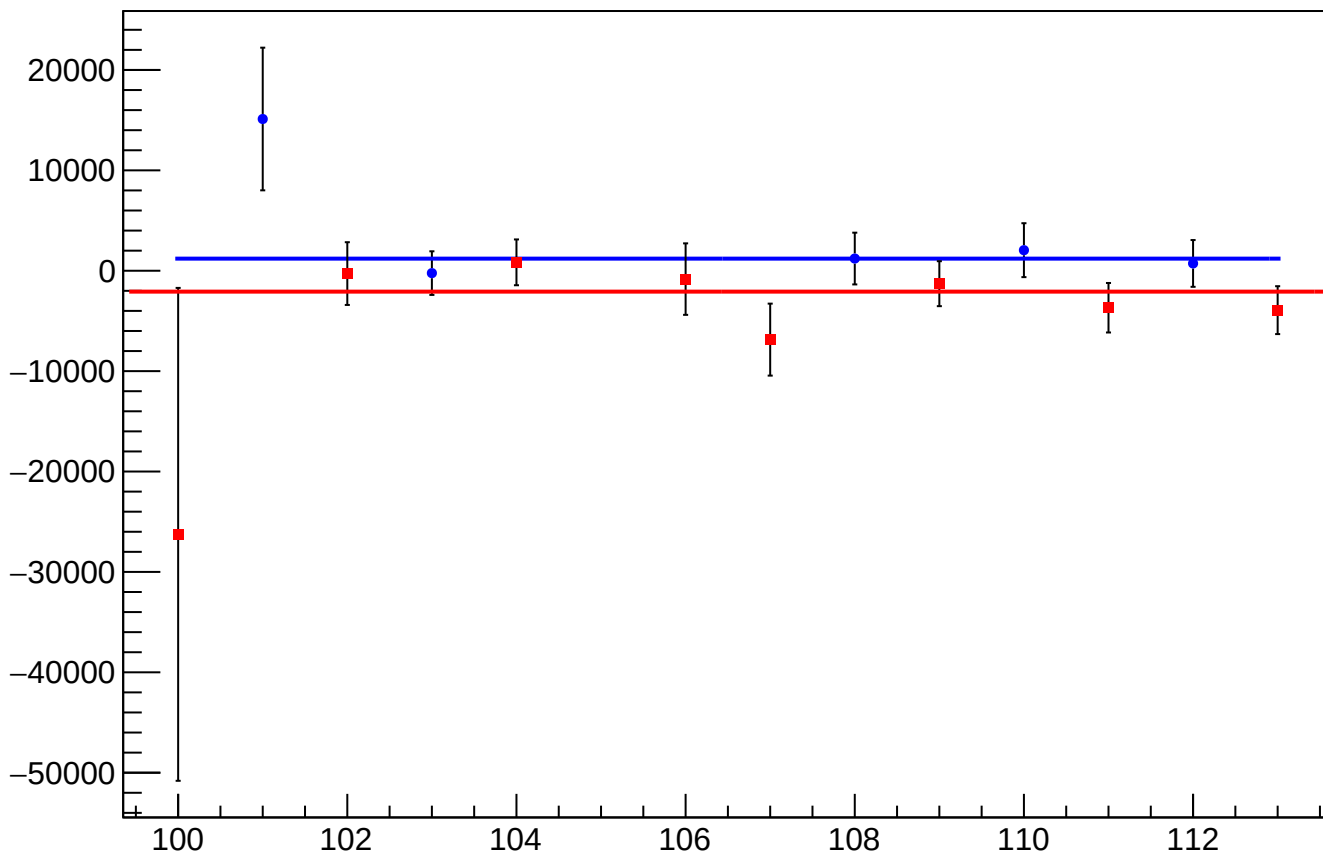
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3030.741 $\pm$ 0.933  $\chi^2$ /NDF: 824599.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# cor\_asym\_atr1l2\_avg\_mean vs Slug



Right In: 1206.283+/-1190.889  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2080.165+/-1003.784  $\chi^2/\text{NDF}$ : 6.0/7

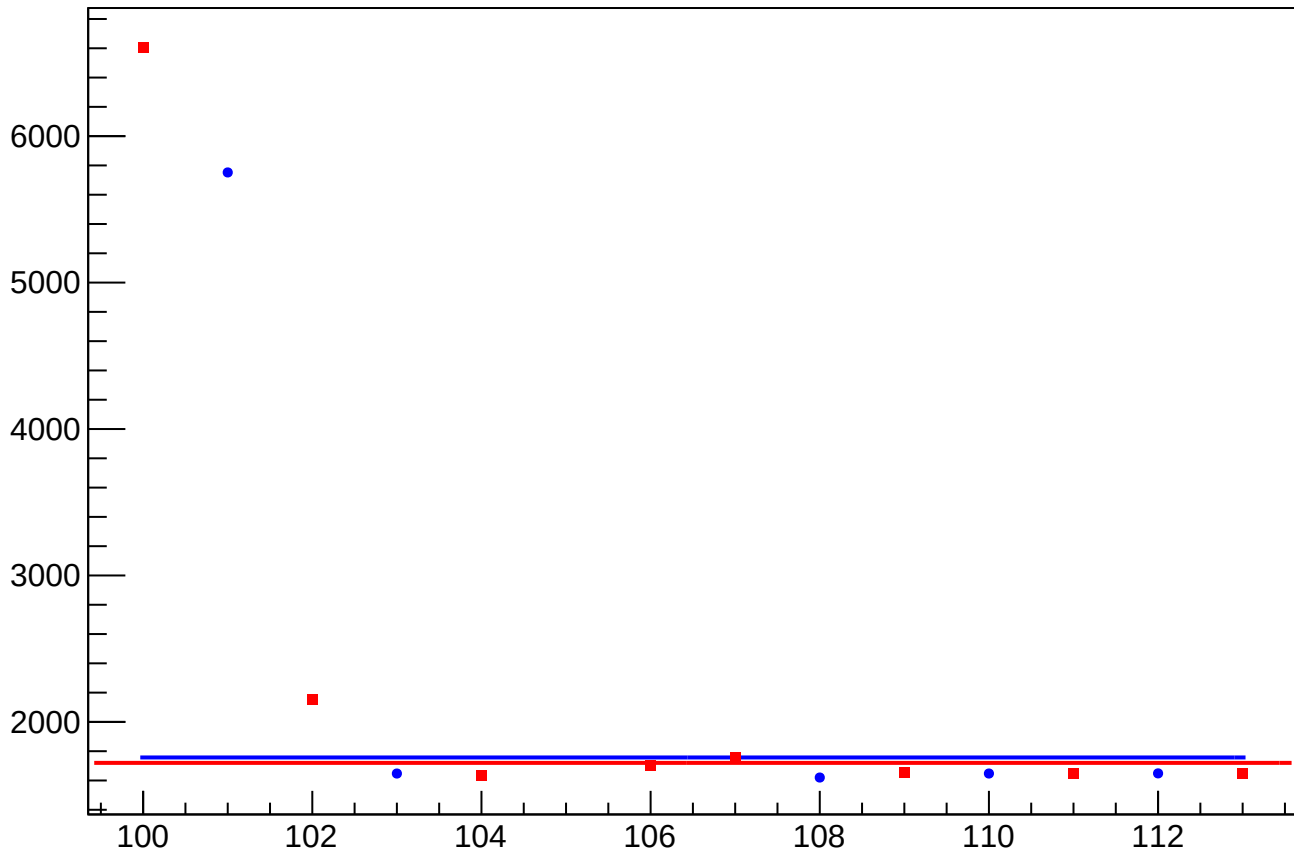
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -715.103+/-767.510  $\chi^2/\text{NDF}$ : 14.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1757.236 $\pm$ 0.842  $\chi^2/\text{NDF}$ : 650627.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1720.273 $\pm$ 0.704  $\chi^2/\text{NDF}$ : 126282.5/7

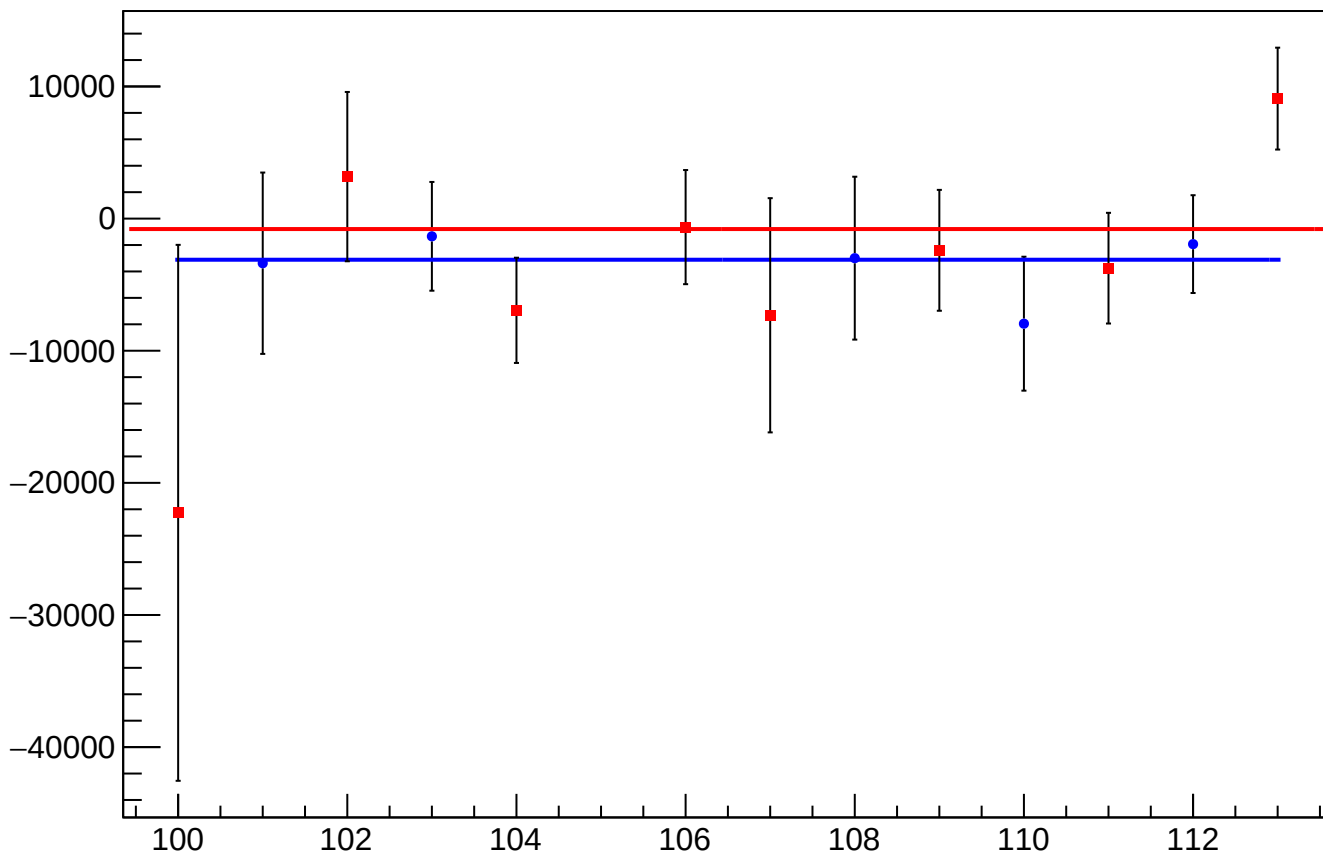
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1735.469 $\pm$ 0.540  $\chi^2/\text{NDF}$ : 778044.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_cor\_correction\_mean vs Slug



Right In: -3113.136 $\pm$ 2139.073  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -791.082 $\pm$ 1745.456  $\chi^2$ /NDF: 11.6/7

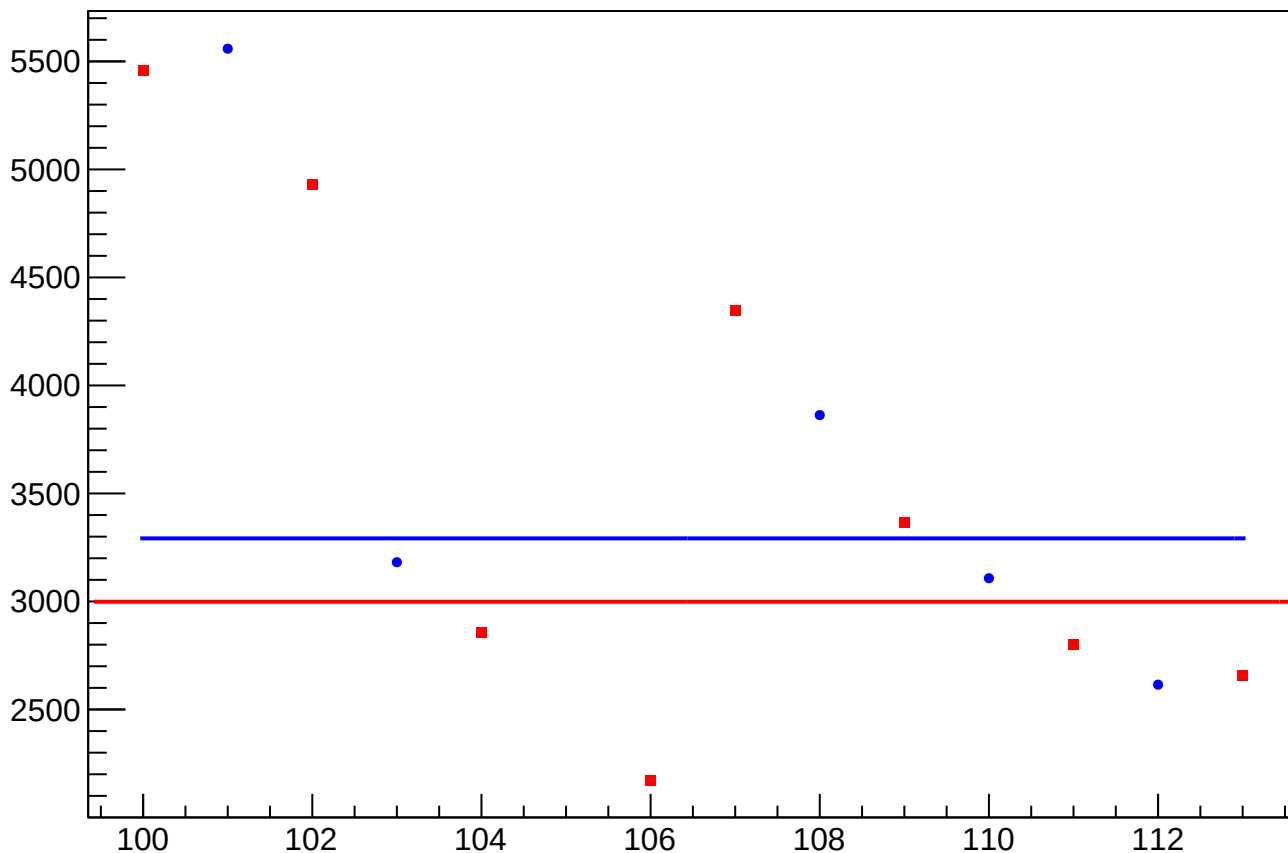
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1719.208 $\pm$ 1352.362  $\chi^2$ /NDF: 13.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_avg\_cor\_correction\_rms vs Slug



Right In: 3292.066+/-1.513  $\chi^2/\text{NDF}$ : 306433.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2998.614+/-1.234  $\chi^2/\text{NDF}$ : 365823.4/7

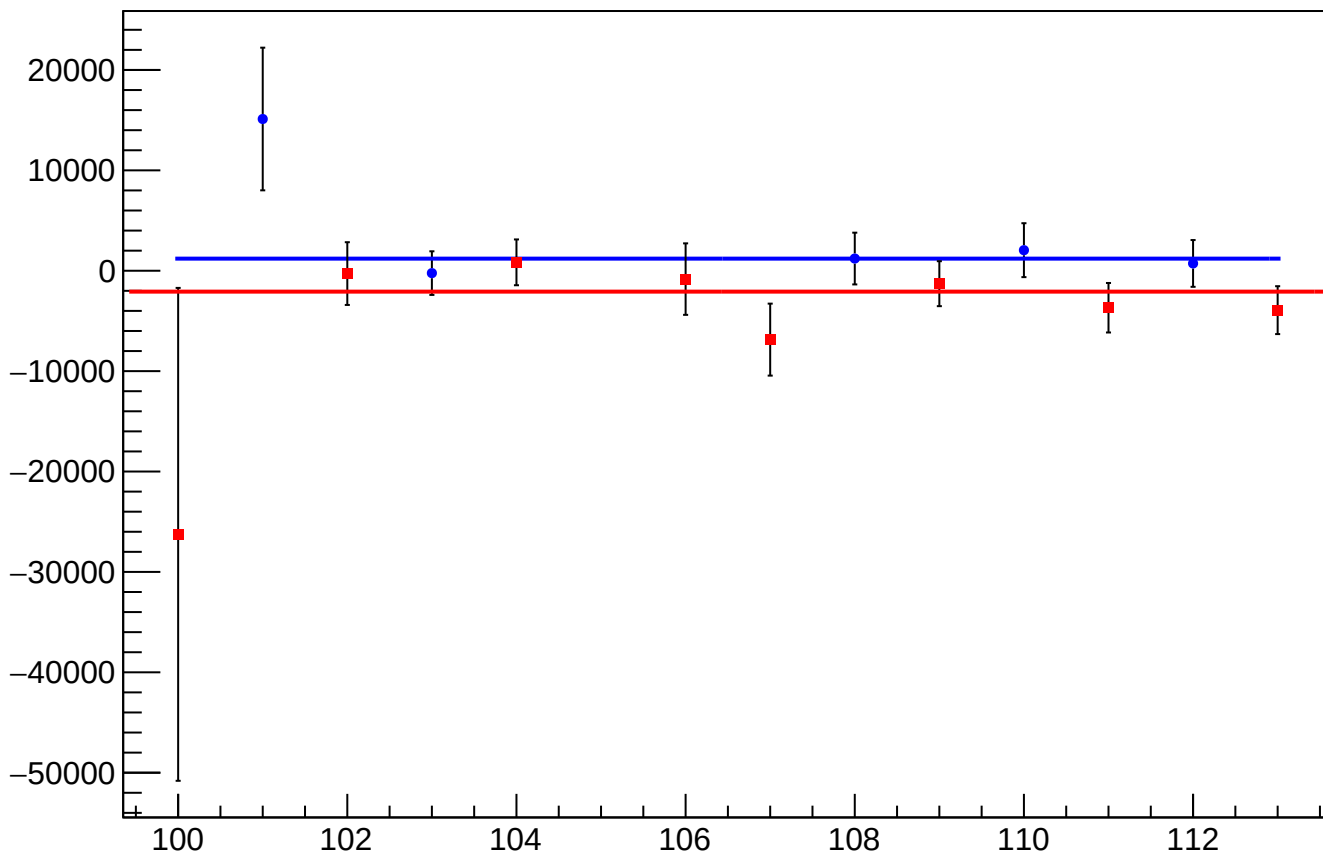
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3115.907+/-0.956  $\chi^2/\text{NDF}$ : 694852.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr1l2\_avg\_mean vs Slug



Right In: 1206.283+/-1190.889  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2080.165+/-1003.784  $\chi^2/\text{NDF}$ : 6.0/7

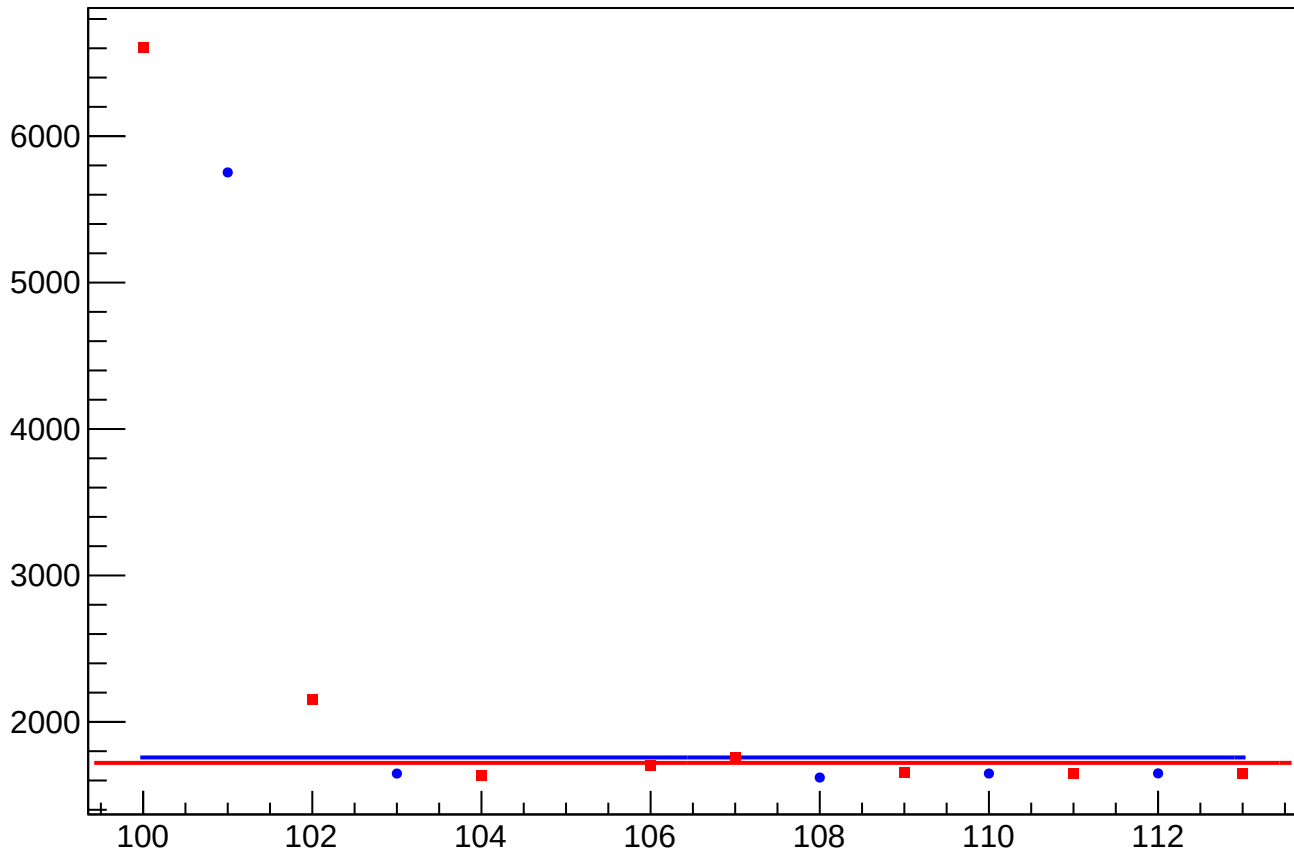
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -715.103+/-767.510  $\chi^2/\text{NDF}$ : 14.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1757.236+/-0.842  $\chi^2/\text{NDF}$ : 650627.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1720.273+/-0.704  $\chi^2/\text{NDF}$ : 126282.5/7

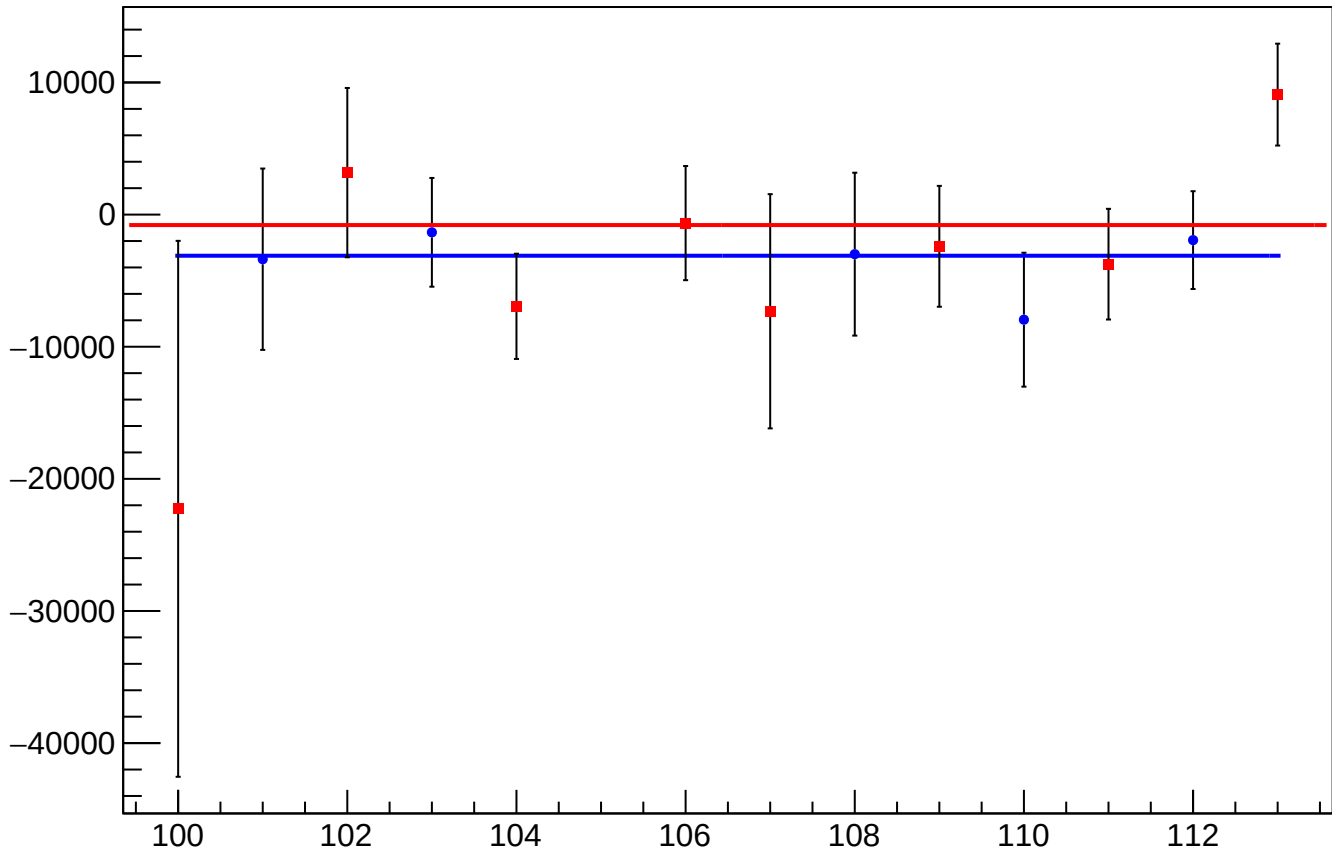
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1735.469+/-0.540  $\chi^2/\text{NDF}$ : 778044.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -3113.136 $\pm$ 2139.073  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -791.082 $\pm$ 1745.456  $\chi^2$ /NDF: 11.6/7

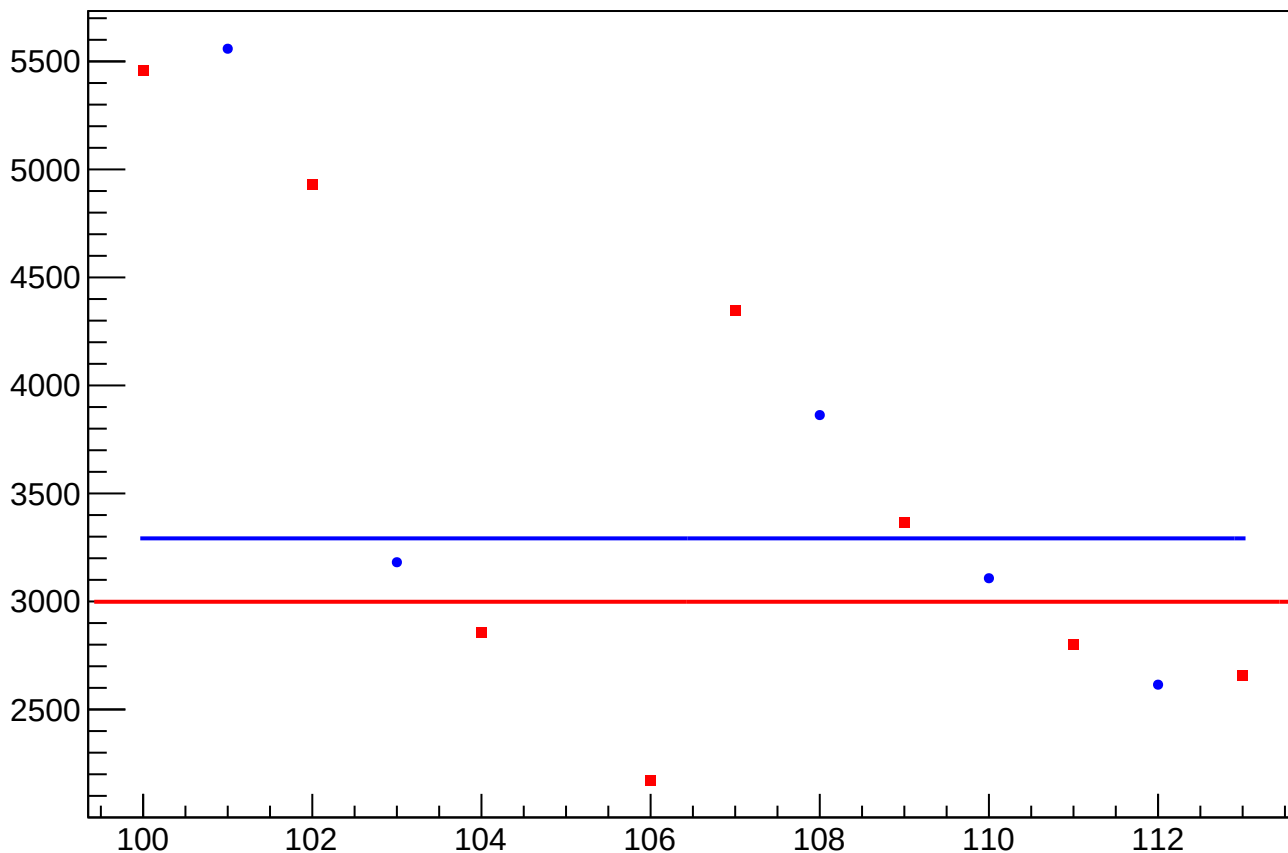
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1719.208 $\pm$ 1352.362  $\chi^2$ /NDF: 13.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 3292.066+/-1.513  $\chi^2/\text{NDF}$ : 306433.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2998.614+/-1.234  $\chi^2/\text{NDF}$ : 365823.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

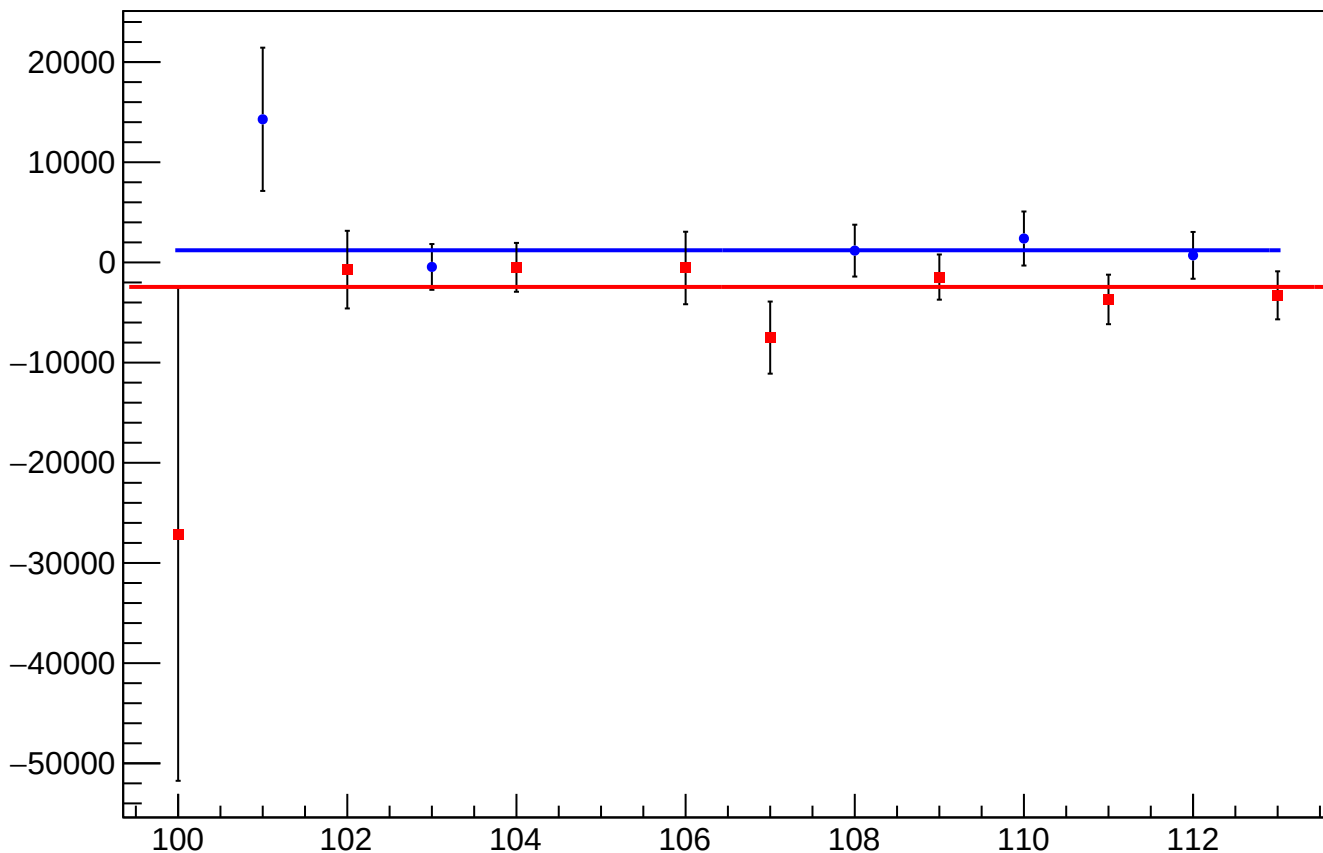
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3115.907+/-0.956  $\chi^2/\text{NDF}$ : 694852.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_atr1l2\_avg\_mean vs Slug



Right In: 1214.172 $\pm$ 1211.832  $\chi^2$ /NDF: 4.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2445.288 $\pm$ 1040.113  $\chi^2$ /NDF: 4.7/7

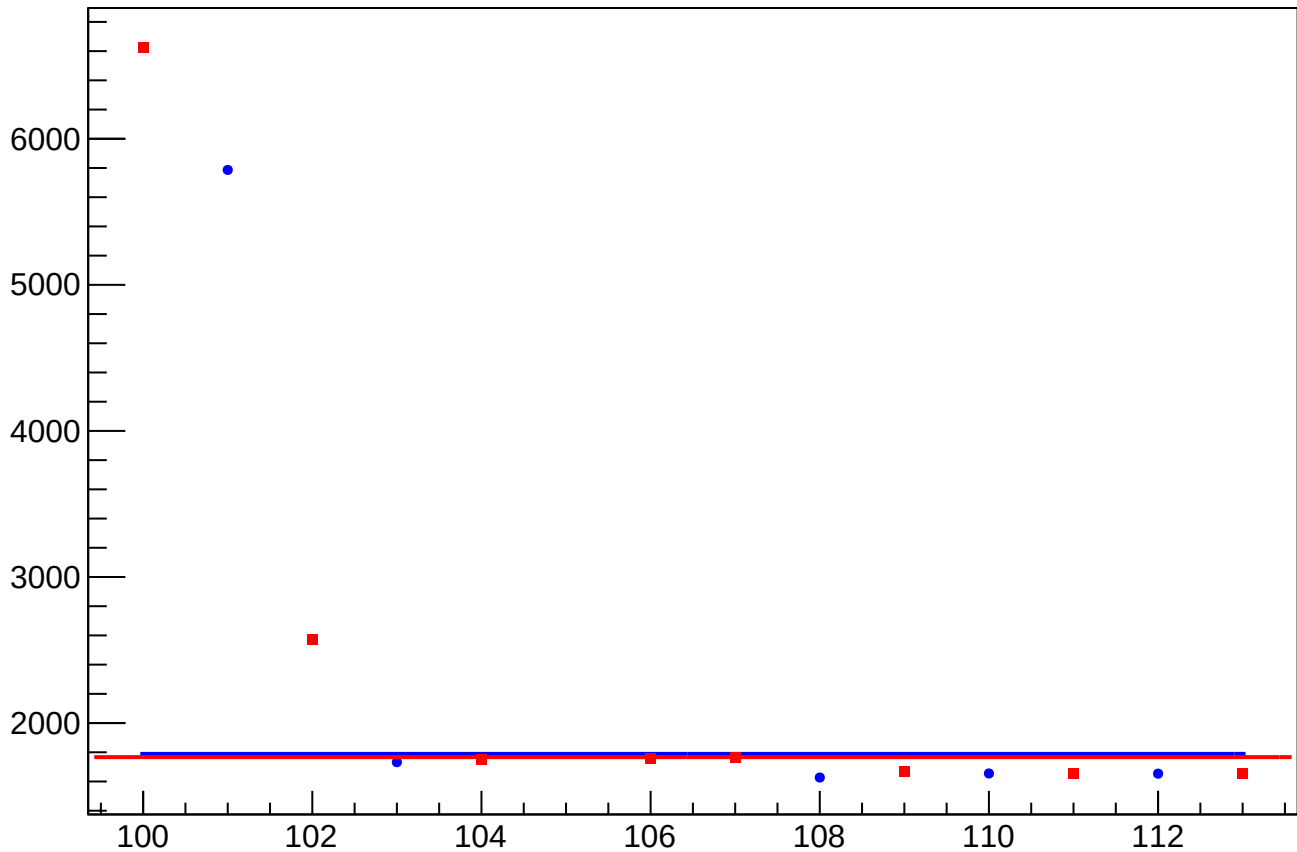
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -892.992 $\pm$ 789.262  $\chi^2$ /NDF: 14.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1789.030+/-0.857  $\chi^2/\text{NDF}$ : 645924.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1766.764+/-0.731  $\chi^2/\text{NDF}$ : 177422.8/7

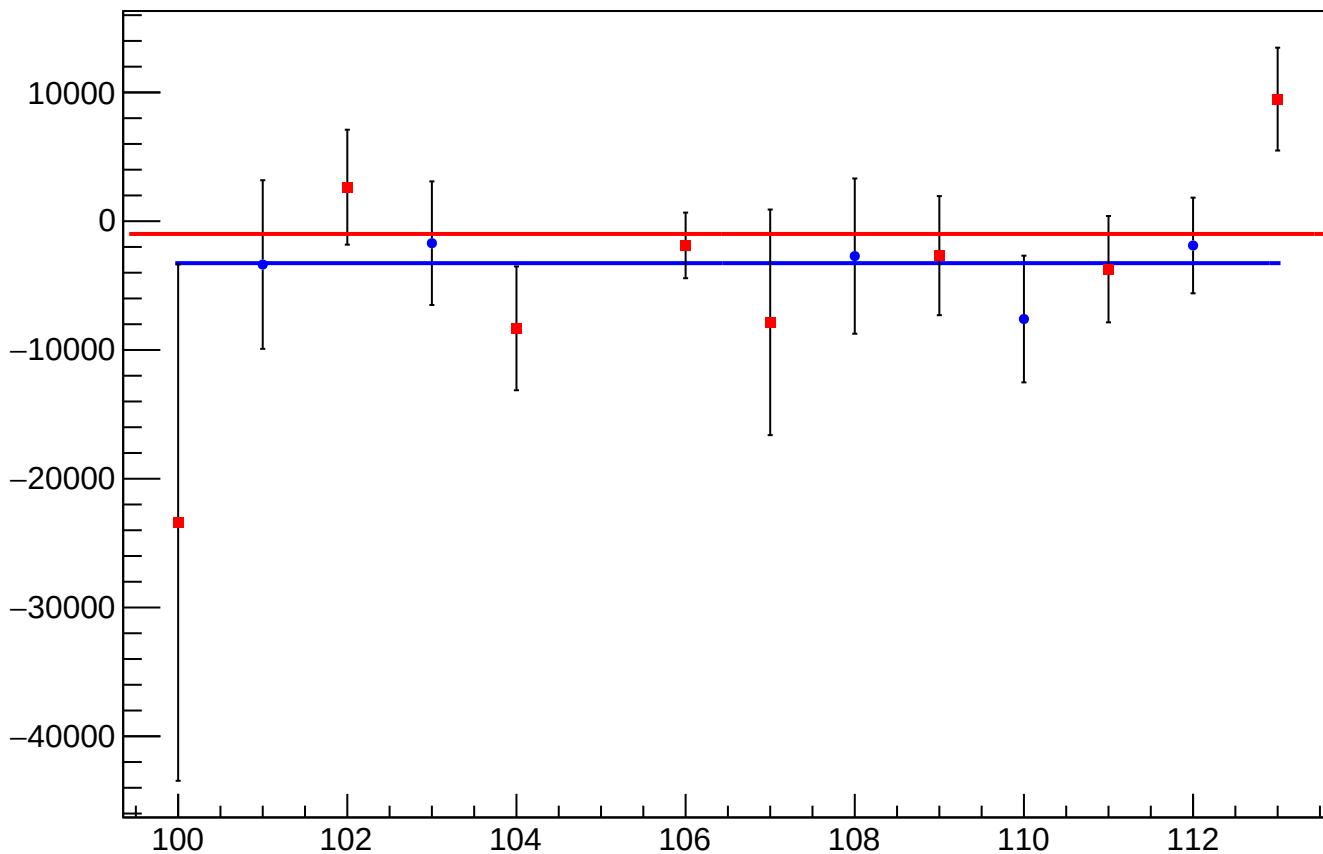
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1776.137+/-0.556  $\chi^2/\text{NDF}$ : 823738.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_dit\_correction\_mean vs Slug



Right In: -3257.256+/-2192.162  $\chi^2/\text{NDF}$ : 1.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -989.836+/-1523.115  $\chi^2/\text{NDF}$ : 12.4/7

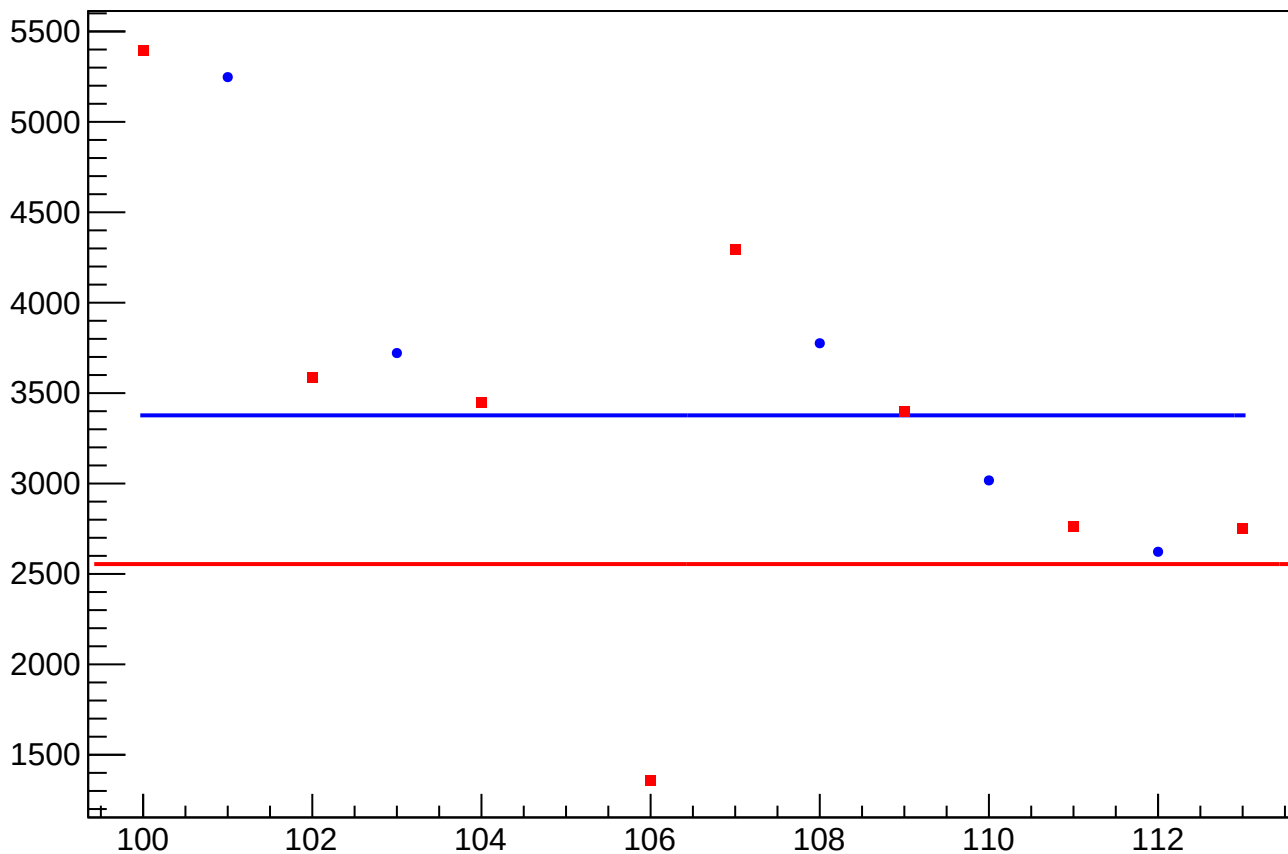
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1728.054+/-1250.832  $\chi^2/\text{NDF}$ : 14.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_dit\_correction\_rms vs Slug



Right In: 3377.011+/-1.550  $\chi^2/\text{NDF}$ : 275471.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2554.569+/-1.077  $\chi^2/\text{NDF}$ : 813337.3/7

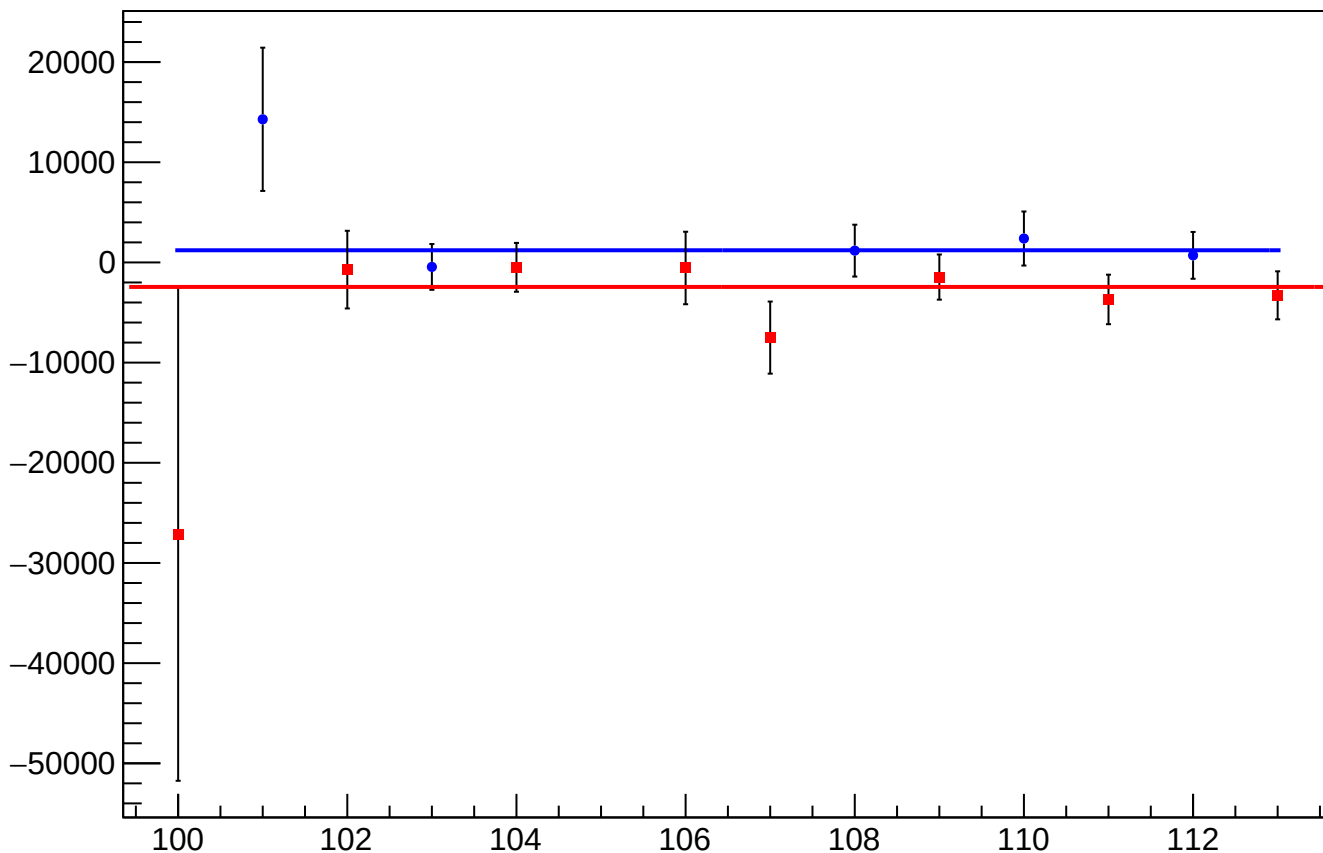
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2822.336+/-0.884  $\chi^2/\text{NDF}$ : 1278666.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atr1l2\_avg\_mean vs Slug



Right In: 1214.185+/-1211.832  $\chi^2/\text{NDF}$ : 4.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2445.294+/-1040.113  $\chi^2/\text{NDF}$ : 4.7/7

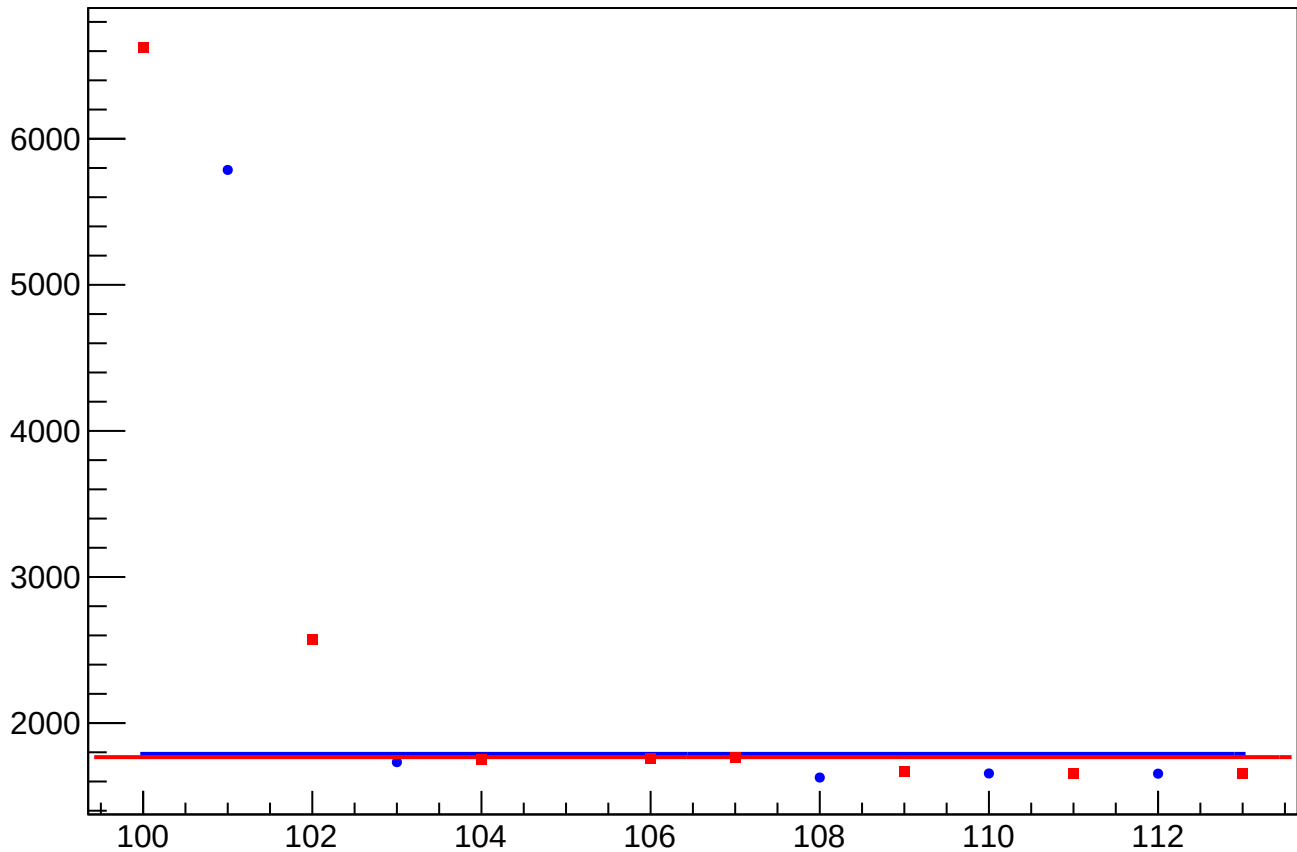
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -892.990+/-789.262  $\chi^2/\text{NDF}$ : 14.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1789.030+/-0.857  $\chi^2/\text{NDF}$ : 645924.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1766.763+/-0.731  $\chi^2/\text{NDF}$ : 177422.8/7

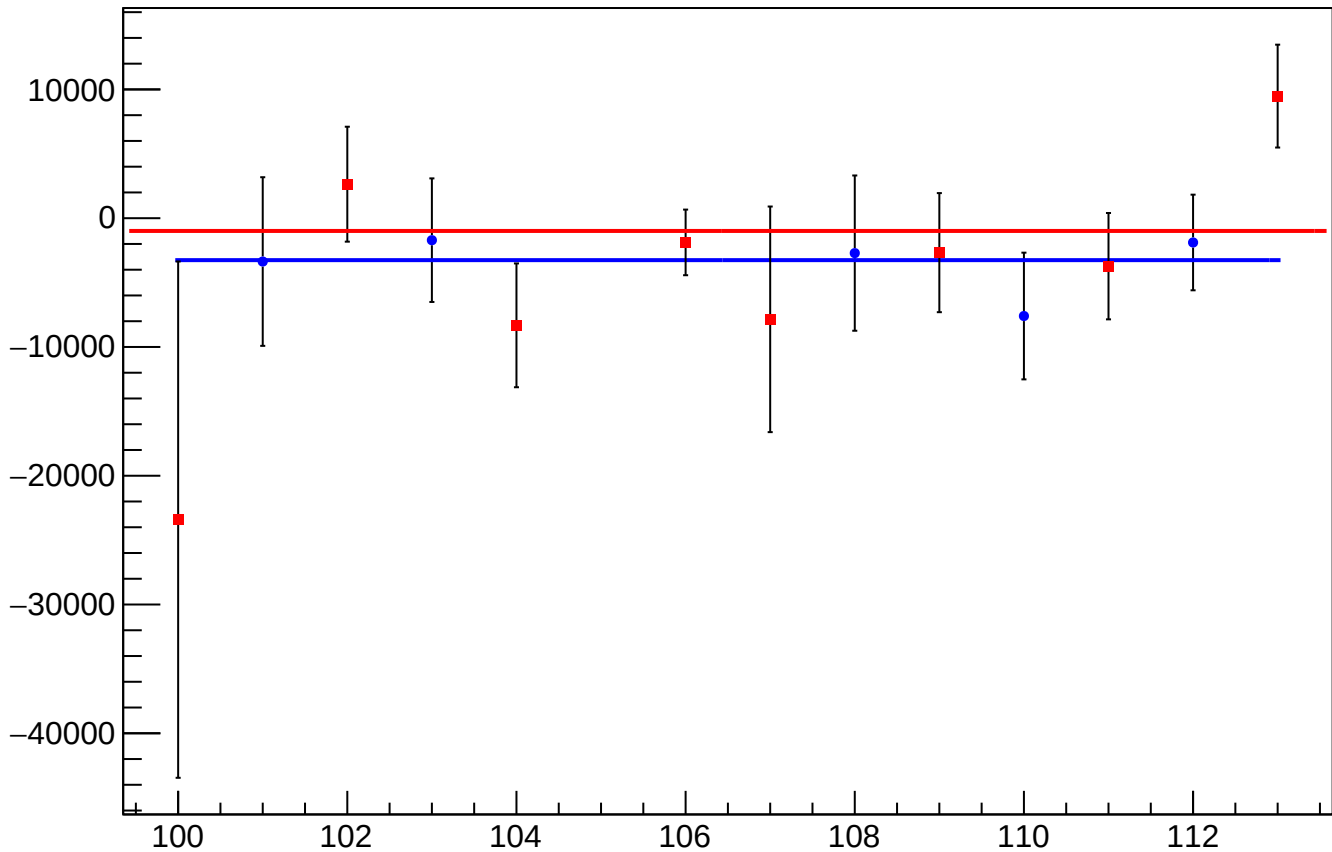
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1776.136+/-0.556  $\chi^2/\text{NDF}$ : 823738.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -3257.247 $\pm$ 2192.157  $\chi^2/\text{NDF}$ : 1.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -989.834 $\pm$ 1523.109  $\chi^2/\text{NDF}$ : 12.4/7

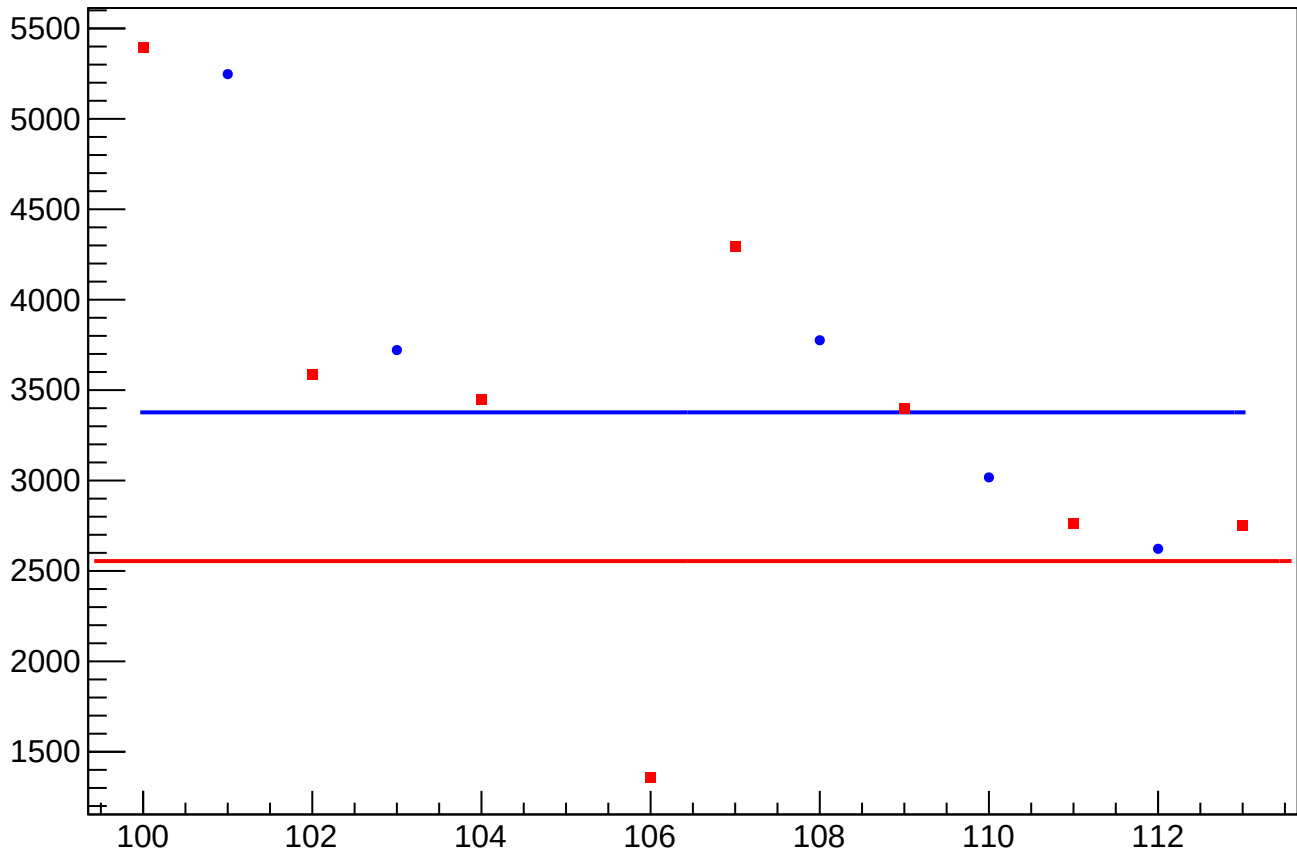
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1728.048 $\pm$ 1250.828  $\chi^2/\text{NDF}$ : 14.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 3377.001 $\pm$ 1.550  $\chi^2$ /NDF: 275472.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2554.554 $\pm$ 1.077  $\chi^2$ /NDF: 813350.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

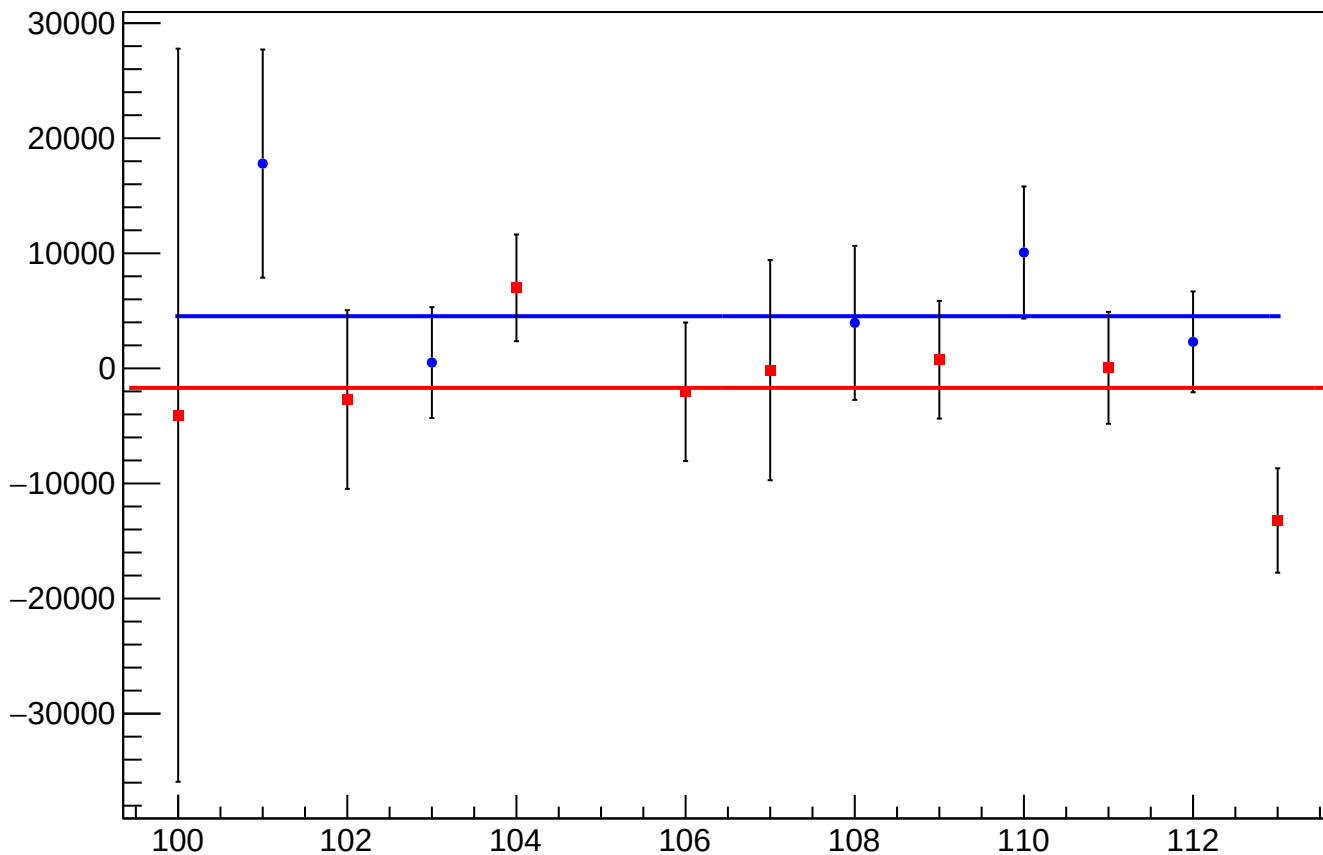
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2822.323 $\pm$ 0.884  $\chi^2$ /NDF: 1278684.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_atr1l2\_avg\_mean vs Slug



Right In: 4533.636+/-2514.270  $\chi^2/\text{NDF}$ : 3.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1692.961+/-2077.245  $\chi^2/\text{NDF}$ : 10.4/7

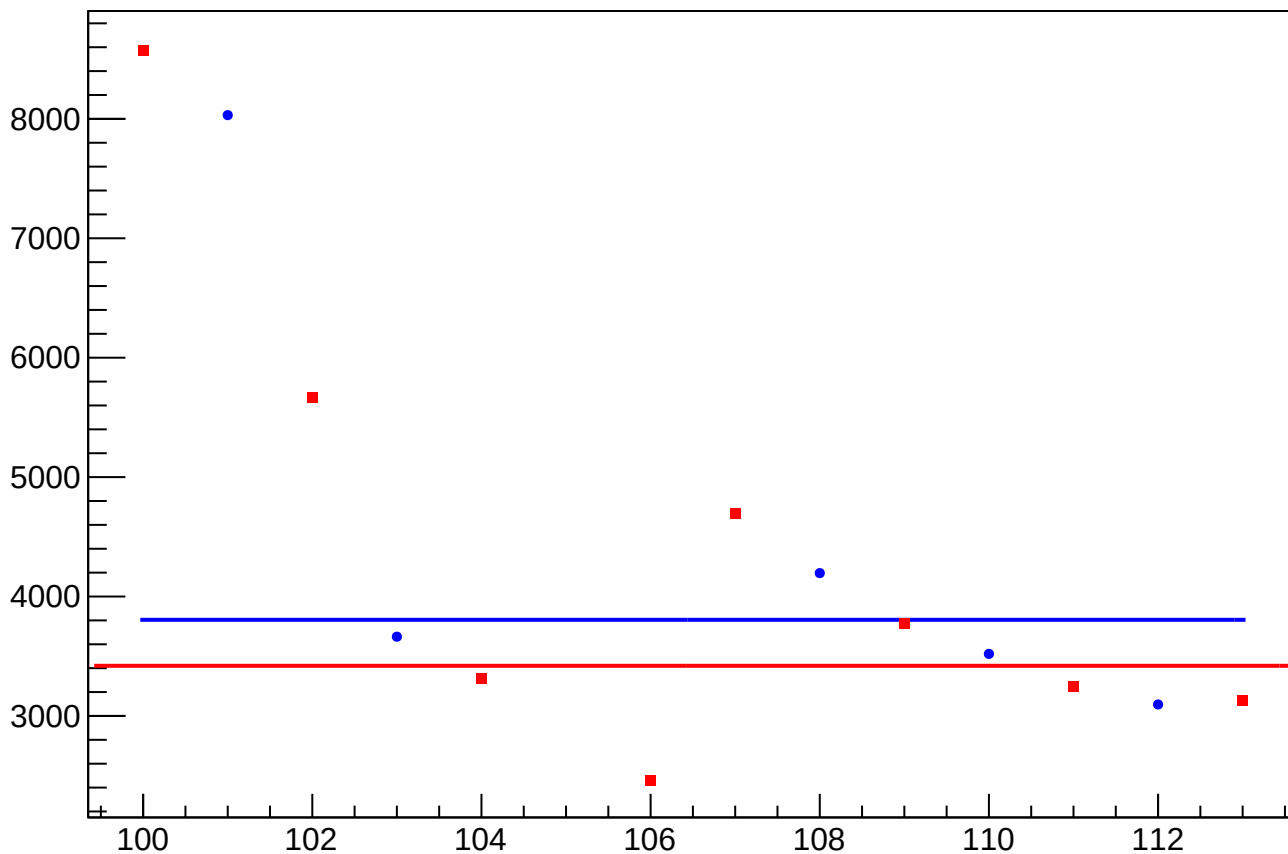
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 833.005+/-1601.402  $\chi^2/\text{NDF}$ : 17.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_rms vs Slug



Right In: 3805.020+/-1.778  $\chi^2/\text{NDF}$ : 429546.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3419.958+/-1.416  $\chi^2/\text{NDF}$ : 358980.1/7

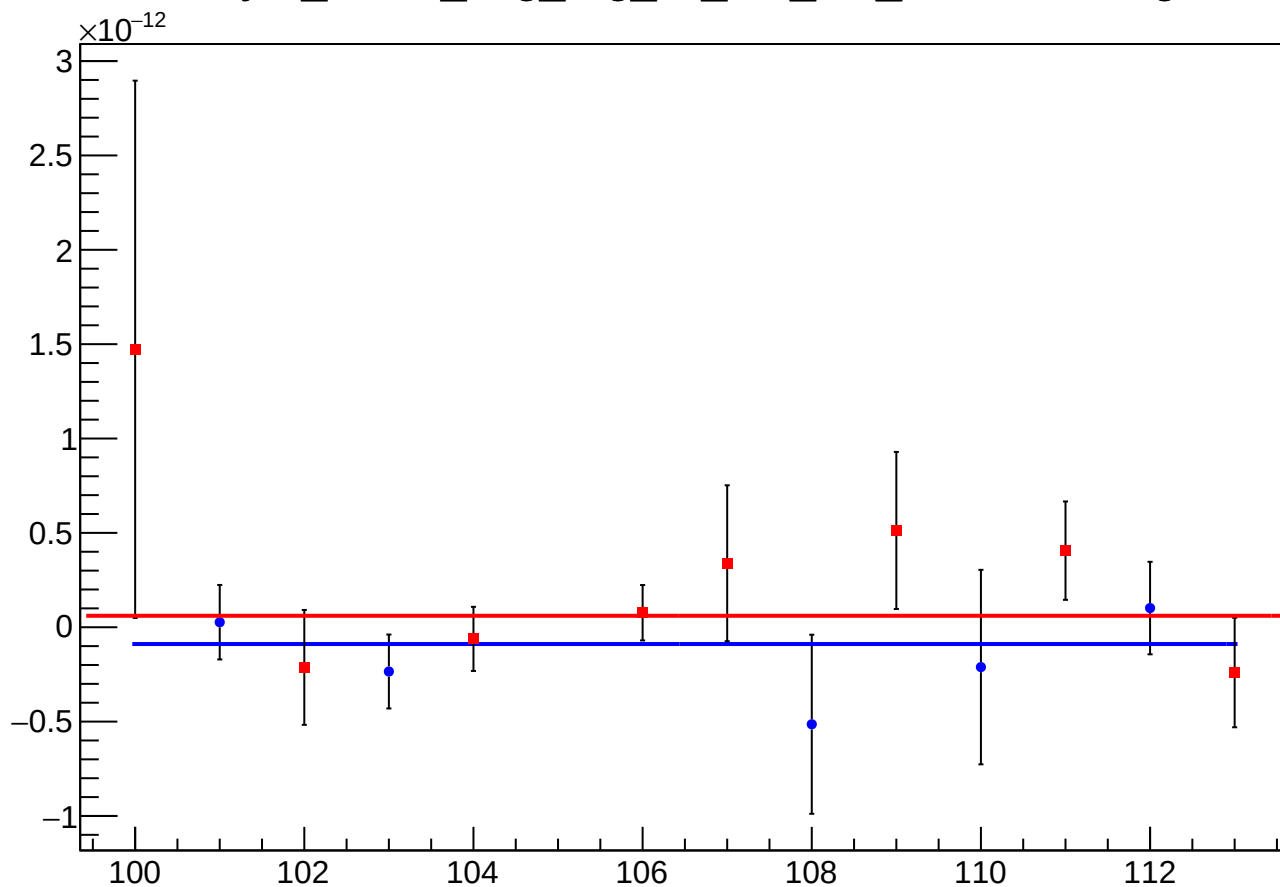
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3569.463+/-1.108  $\chi^2/\text{NDF}$ : 817223.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 2.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 6.8/7

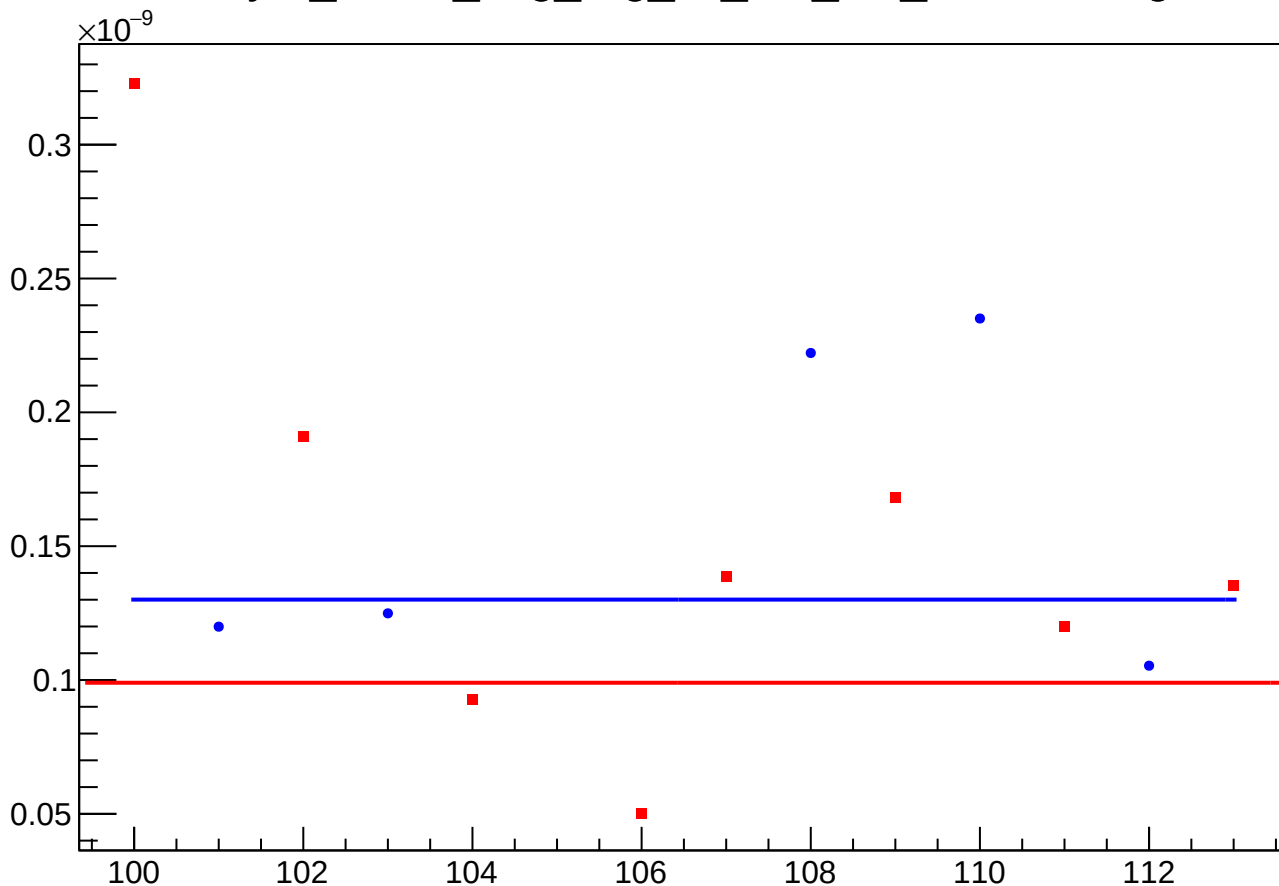
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 10.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 185419.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 574312.0/7

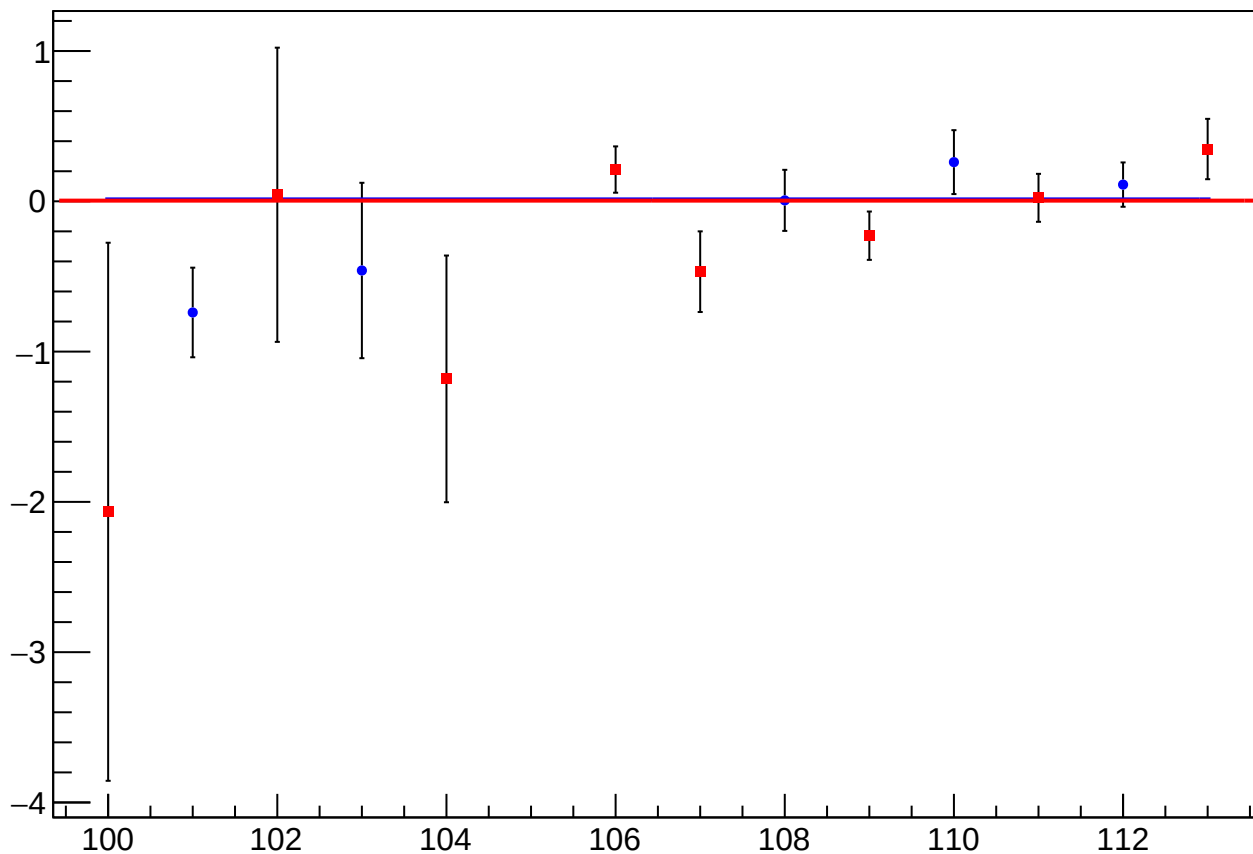
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 852895.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.097  $\chi^2$ /NDF: 8.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.079  $\chi^2$ /NDF: 13.4/7

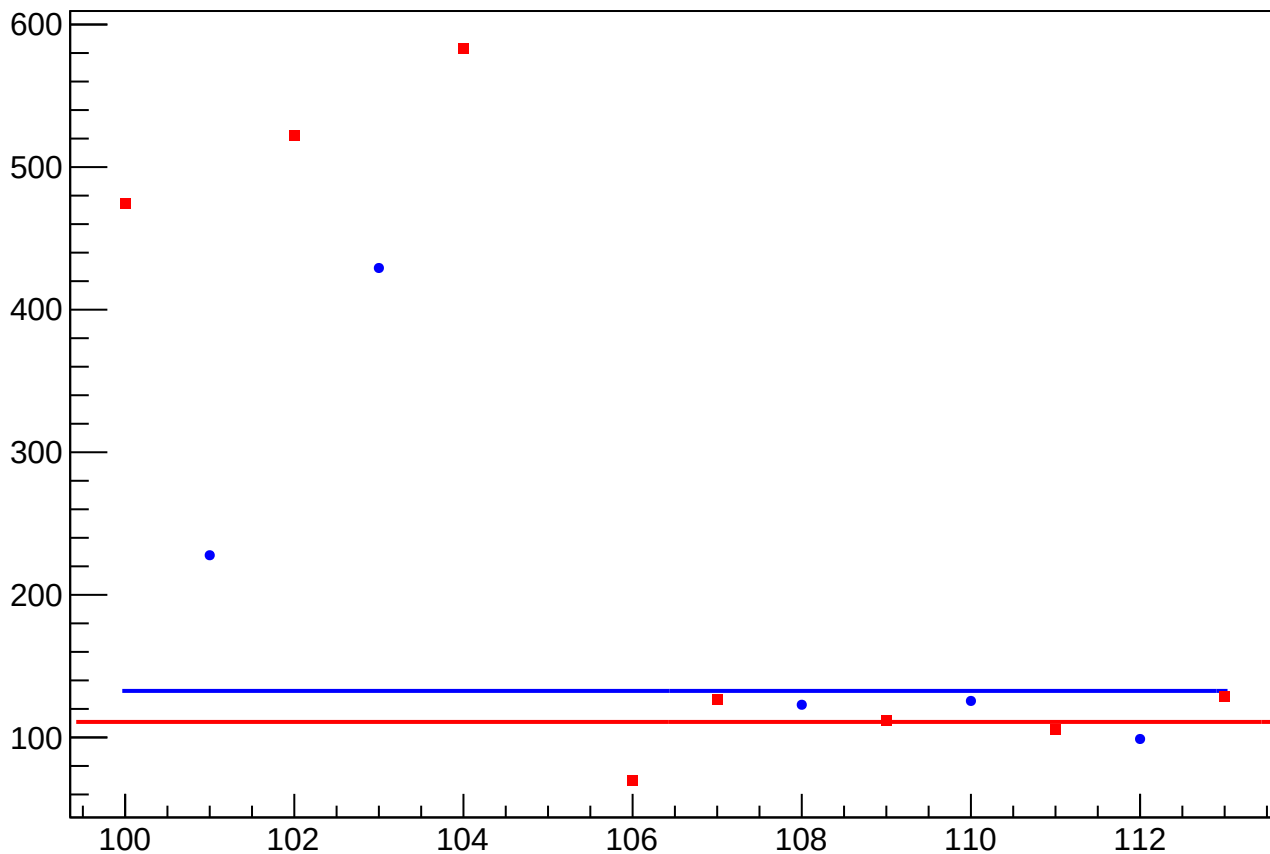
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.061  $\chi^2$ /NDF: 22.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 132.633+/-0.069  $\chi^2/\text{NDF}$ : 831790.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.877+/-0.056  $\chi^2/\text{NDF}$ : 1265632.0/7

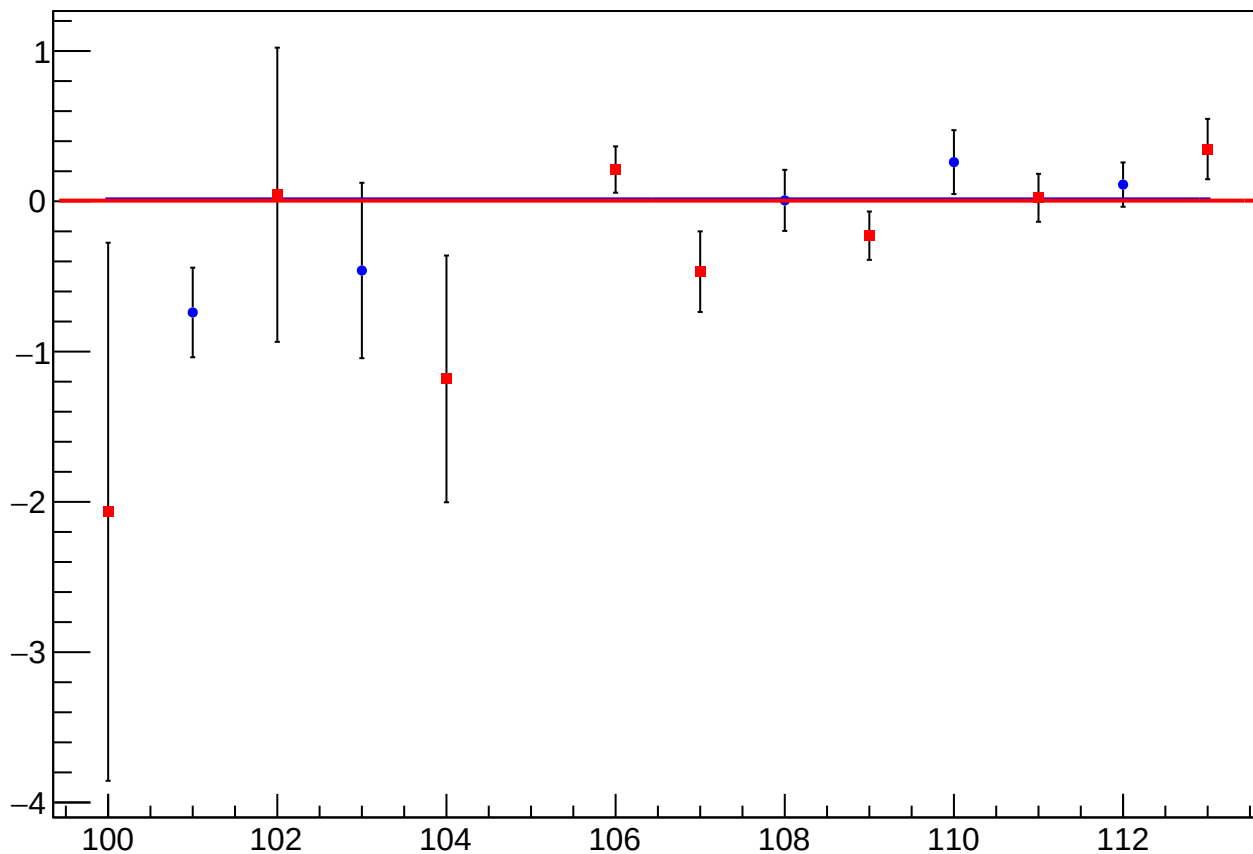
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 119.521+/-0.043  $\chi^2/\text{NDF}$ : 2158198.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.097  $\chi^2$ /NDF: 8.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.079  $\chi^2$ /NDF: 13.4/7

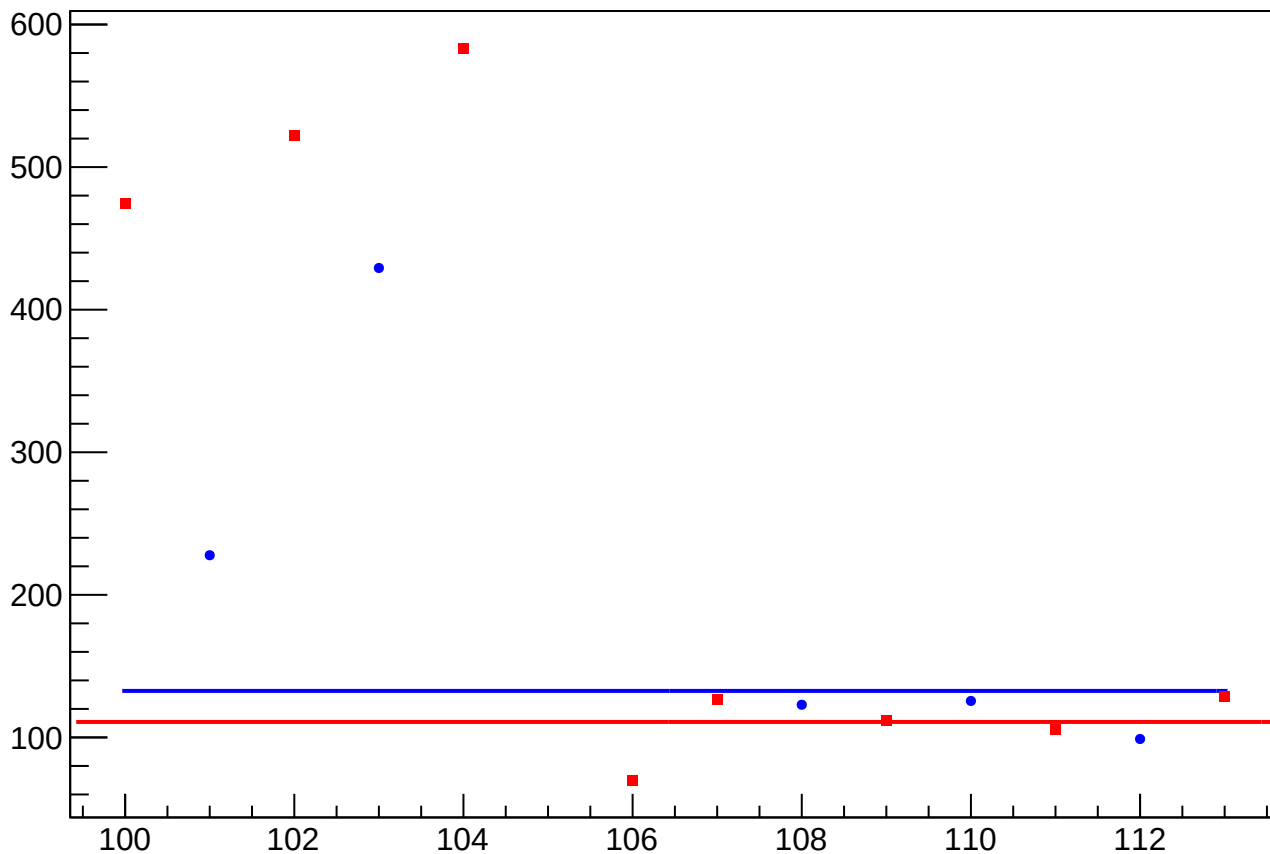
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.061  $\chi^2$ /NDF: 22.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 132.633+/-0.069  $\chi^2/\text{NDF}$ : 831790.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.877+/-0.056  $\chi^2/\text{NDF}$ : 1265632.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

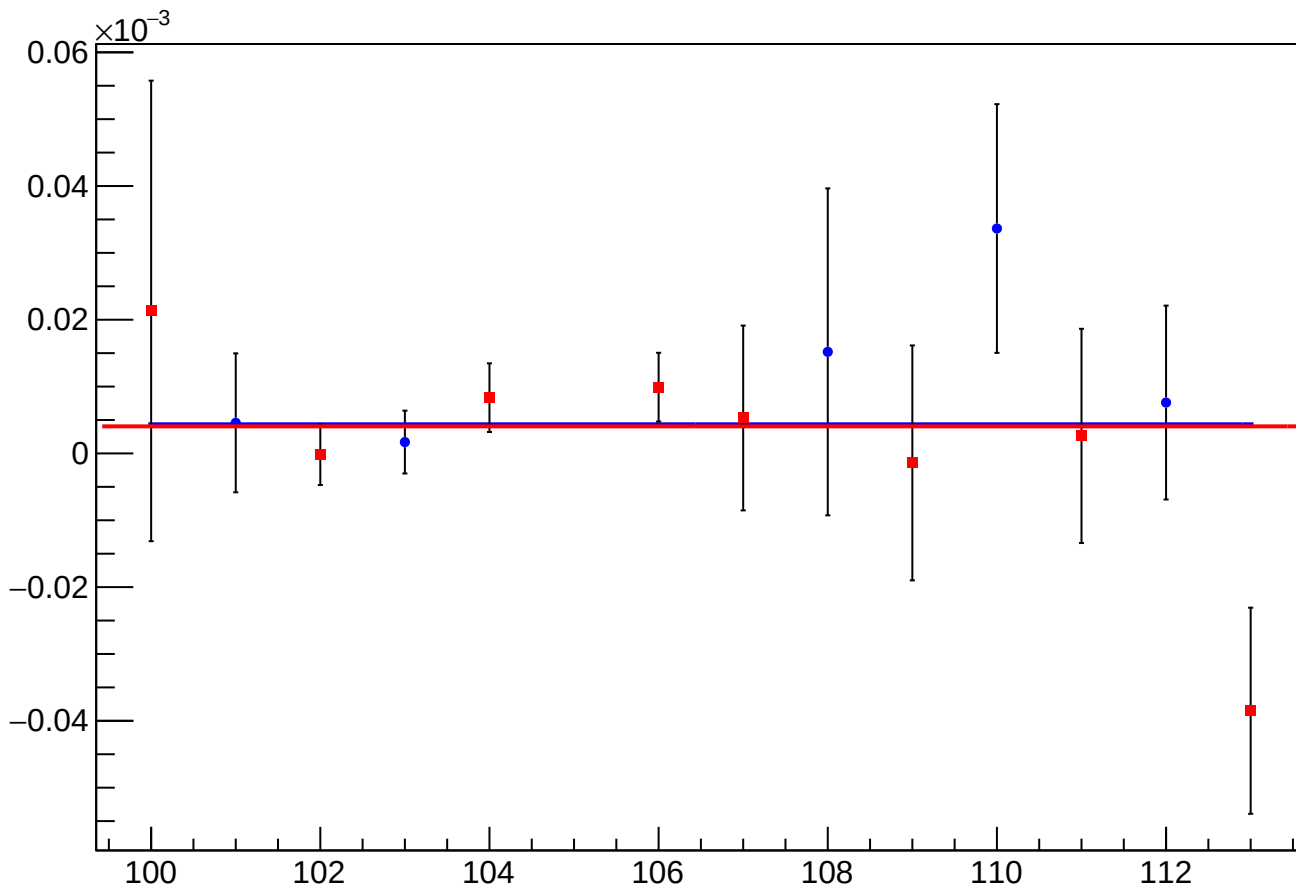
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 119.521+/-0.043  $\chi^2/\text{NDF}$ : 2158198.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atr1l2\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.8/7

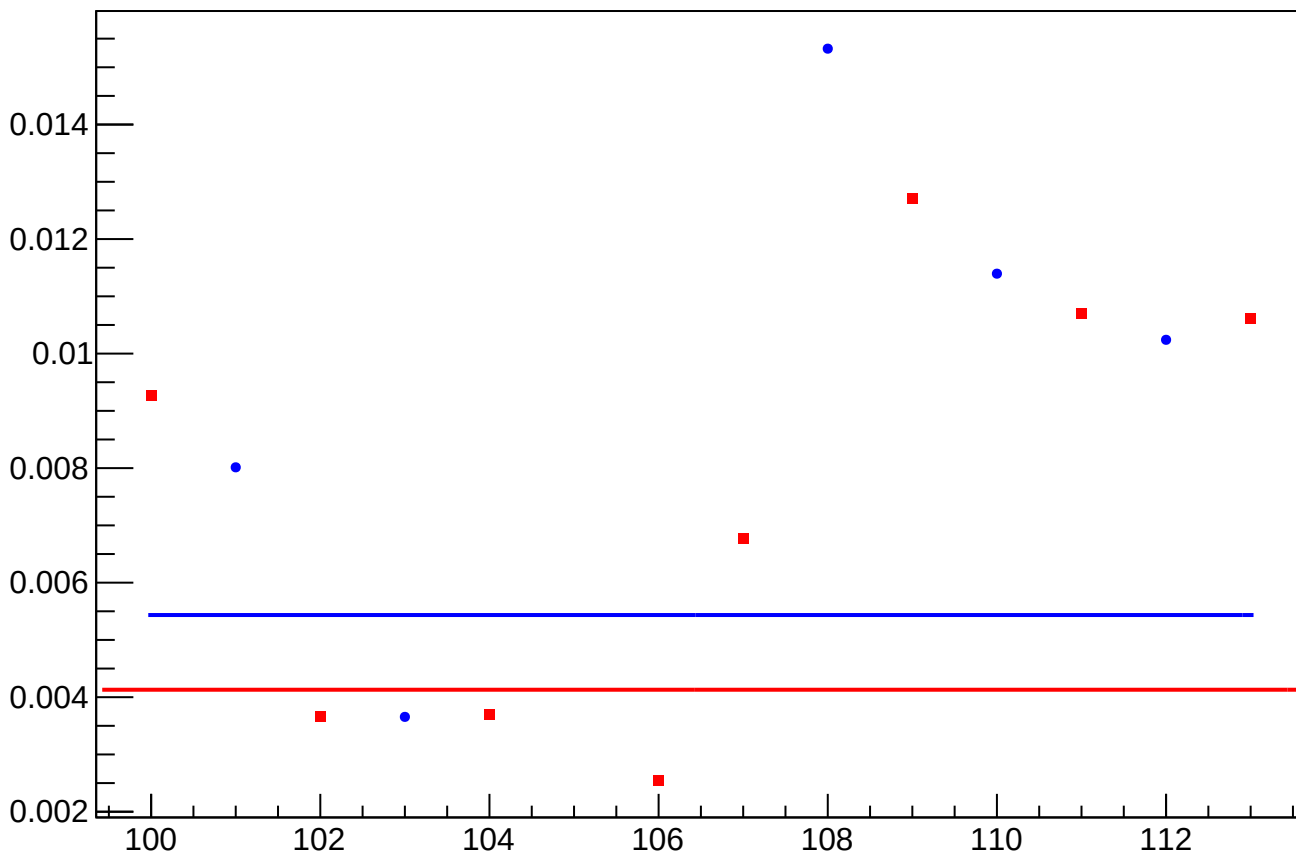
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1161694.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 1510628.9/7

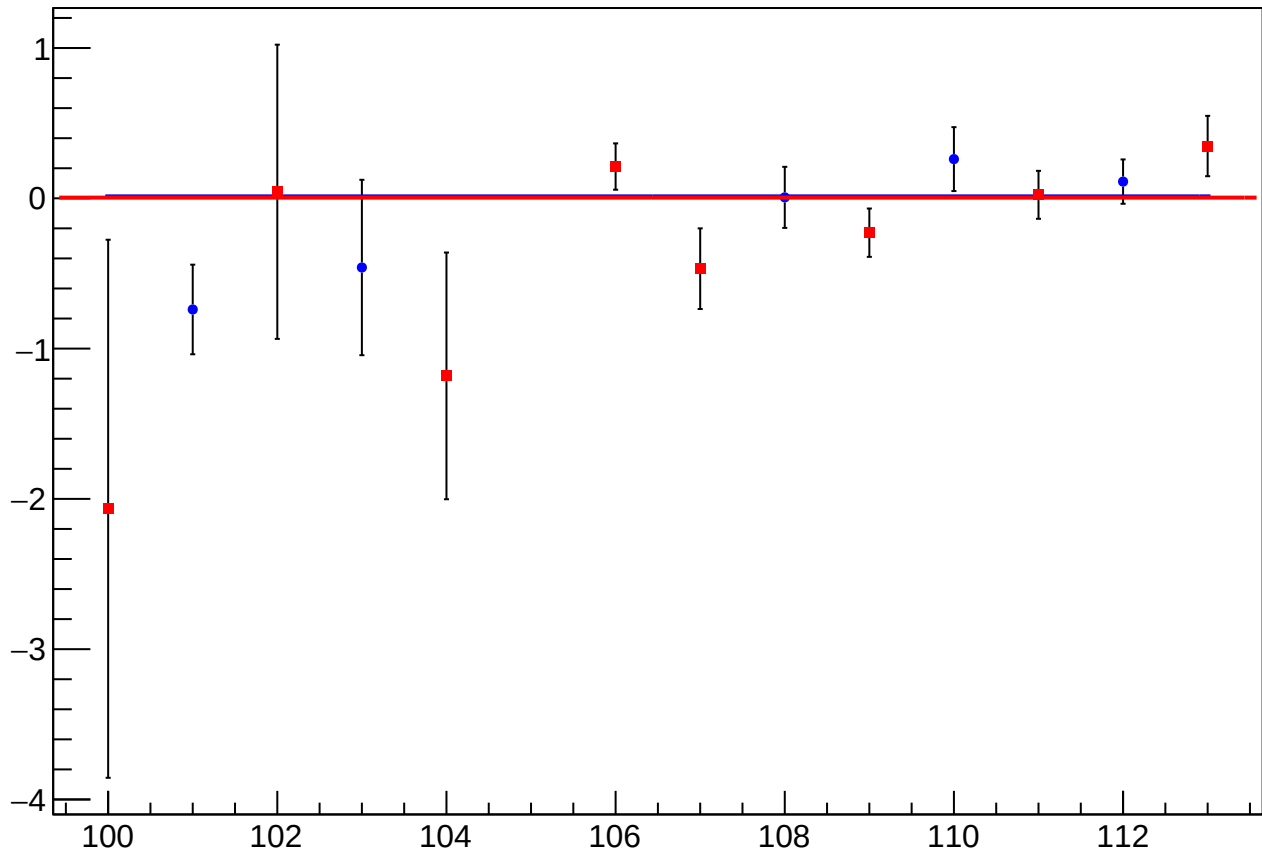
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2822036.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.097  $\chi^2$ /NDF: 8.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.079  $\chi^2$ /NDF: 13.4/7

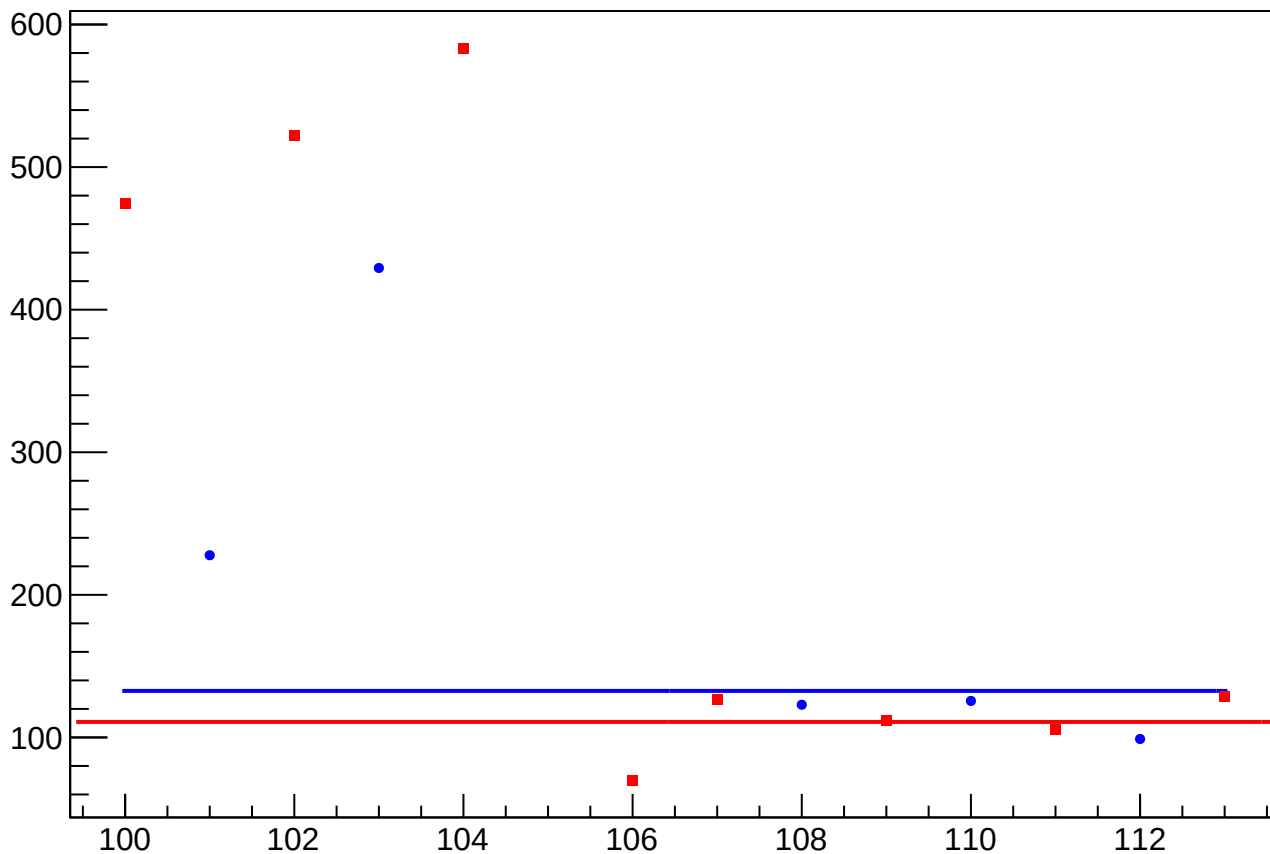
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.061  $\chi^2$ /NDF: 22.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 132.640+/-0.069  $\chi^2/\text{NDF}$ : 831736.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.879+/-0.056  $\chi^2/\text{NDF}$ : 1265609.9/7

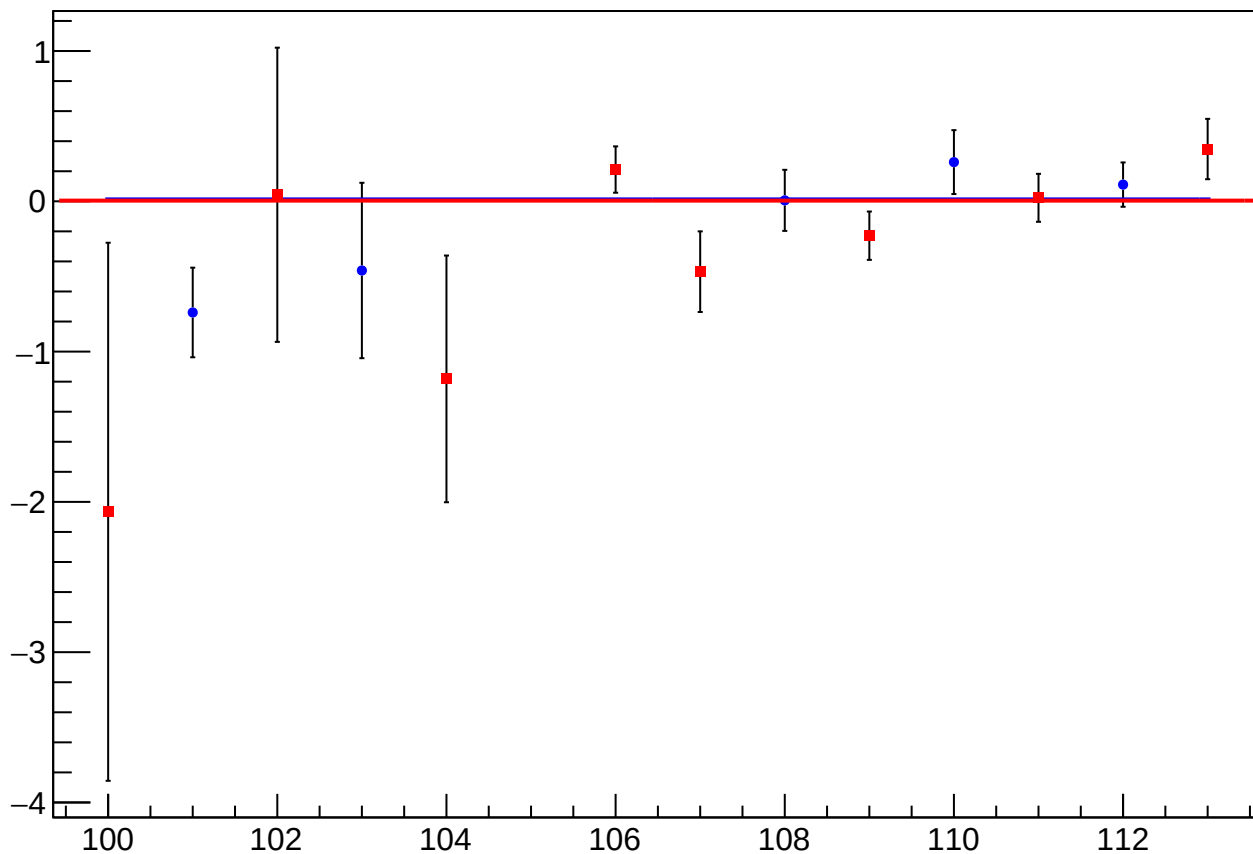
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 119.525+/-0.043  $\chi^2/\text{NDF}$ : 2158145.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.097  $\chi^2$ /NDF: 8.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.079  $\chi^2$ /NDF: 13.4/7

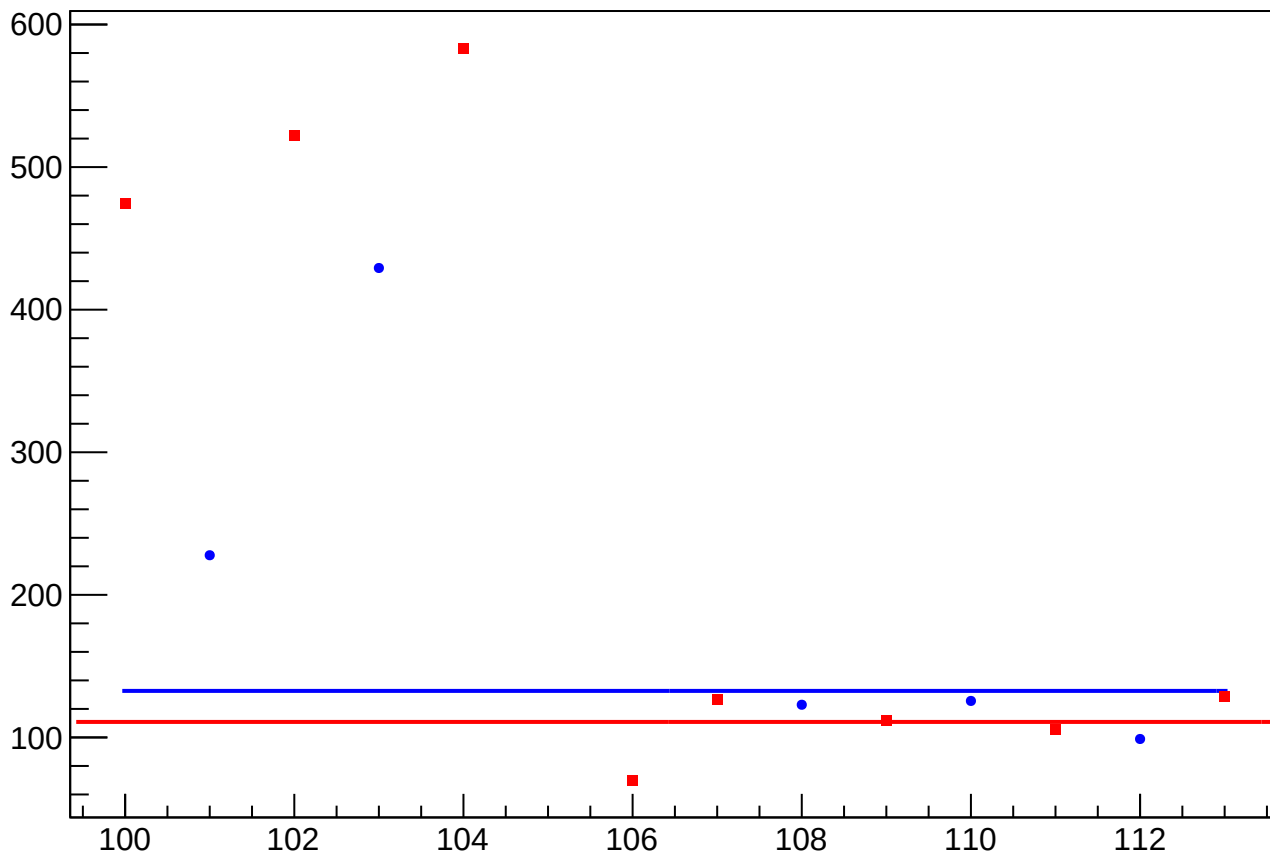
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.061  $\chi^2$ /NDF: 22.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In:  $132.640 \pm 0.069$   $\chi^2/\text{NDF}: 831736.1/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $110.879 \pm 0.056$   $\chi^2/\text{NDF}: 1265609.9/7$

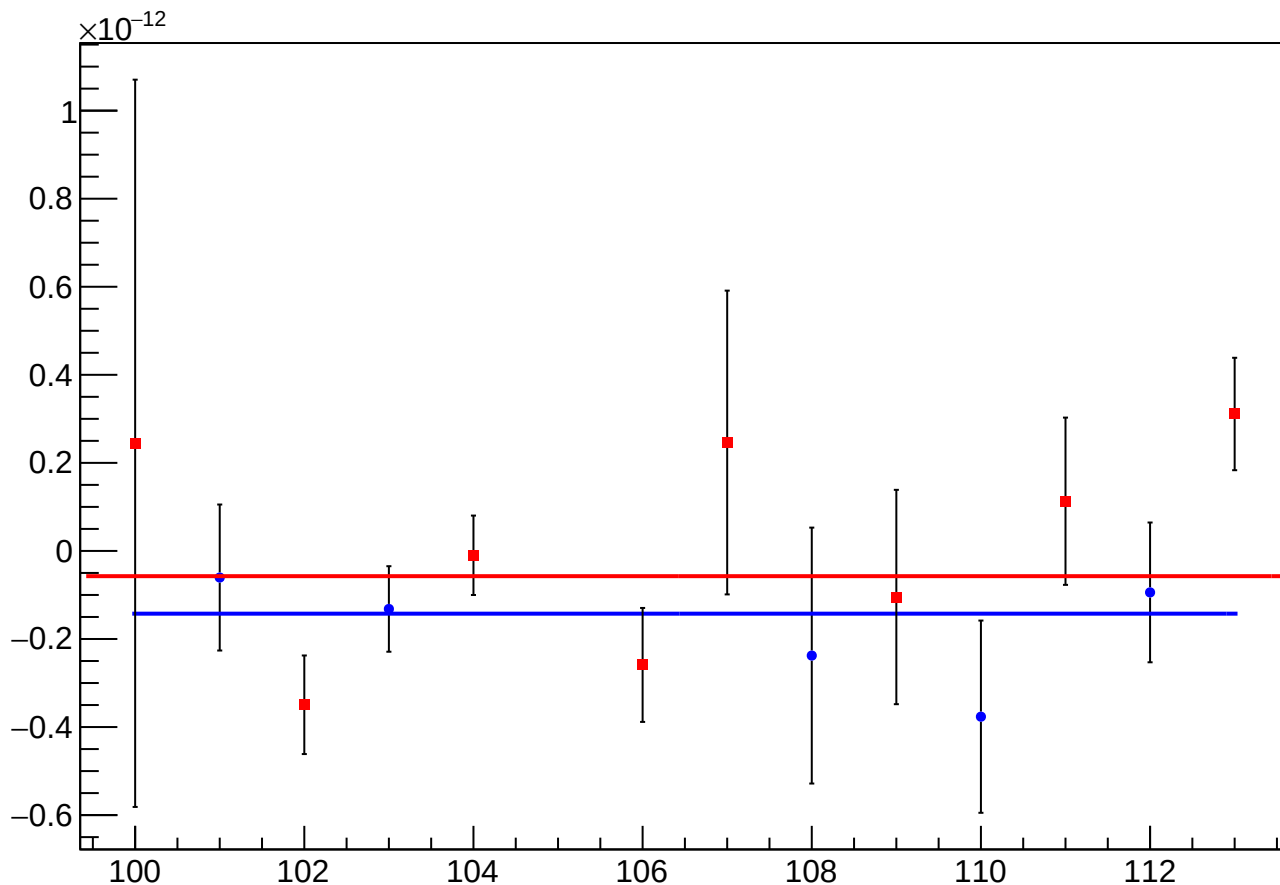
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $119.525 \pm 0.043$   $\chi^2/\text{NDF}: 2158145.2/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_atr1l2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.6/7

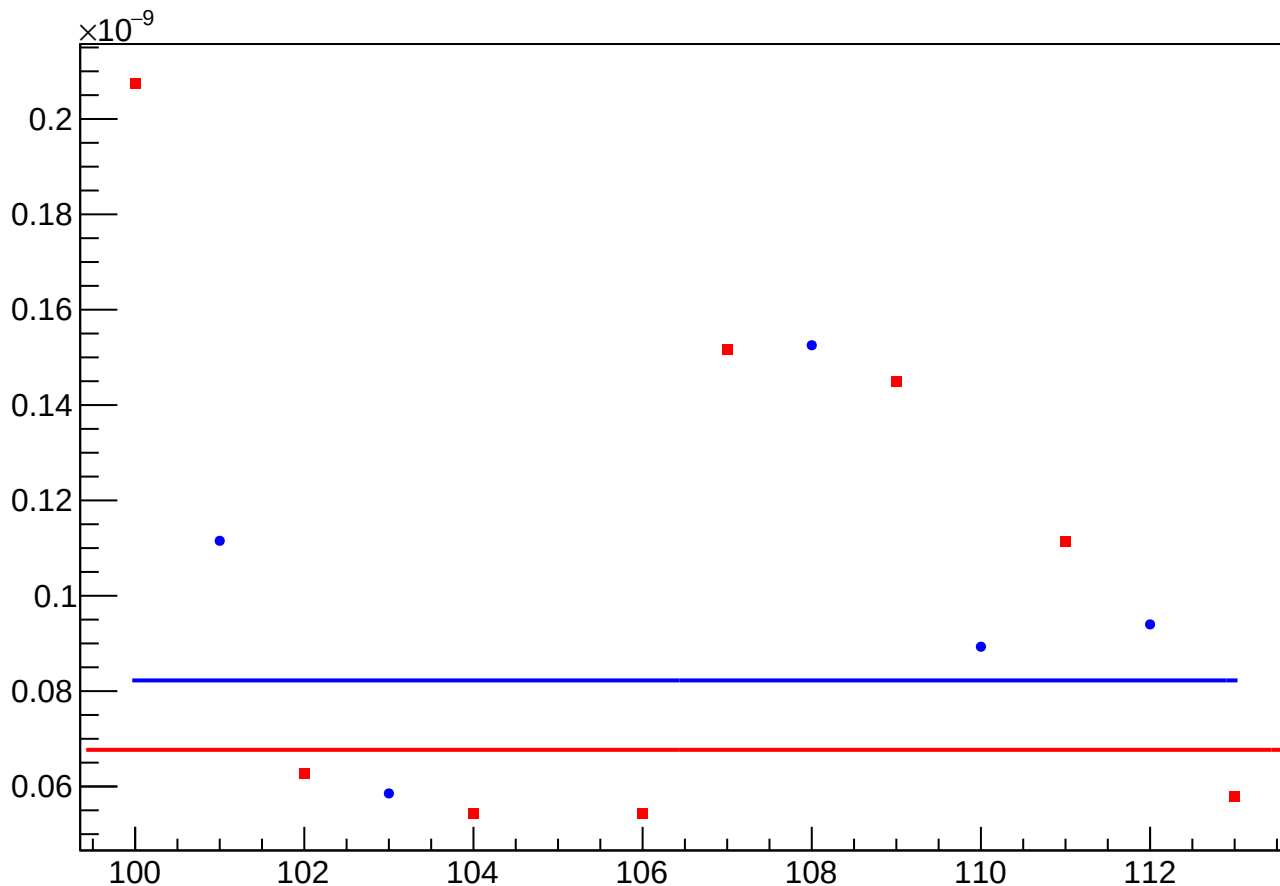
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 22.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 311546.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 563538.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

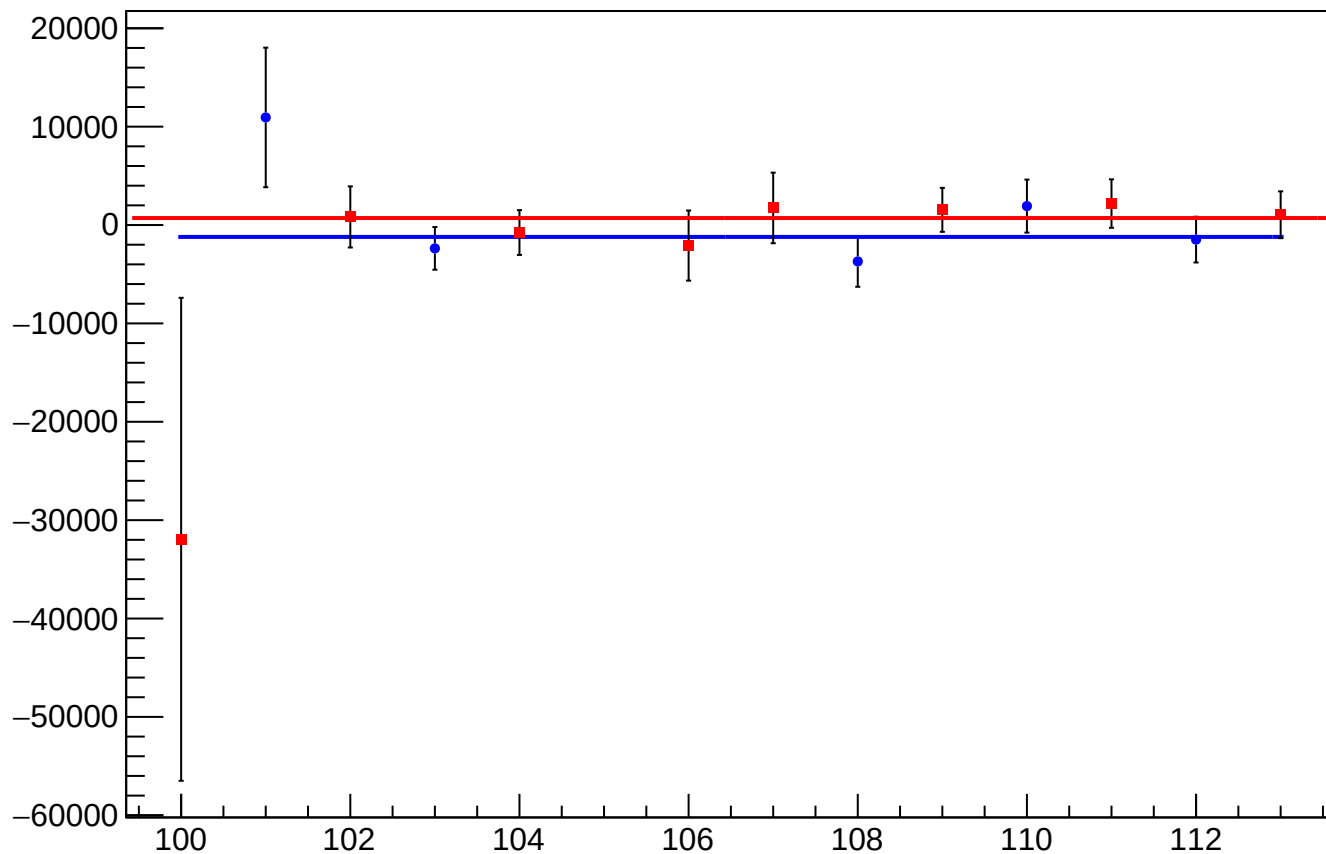
+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 933156.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -1208.828 $\pm$ 1190.409  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 711.746 $\pm$ 1002.015  $\chi^2$ /NDF: 3.4/7

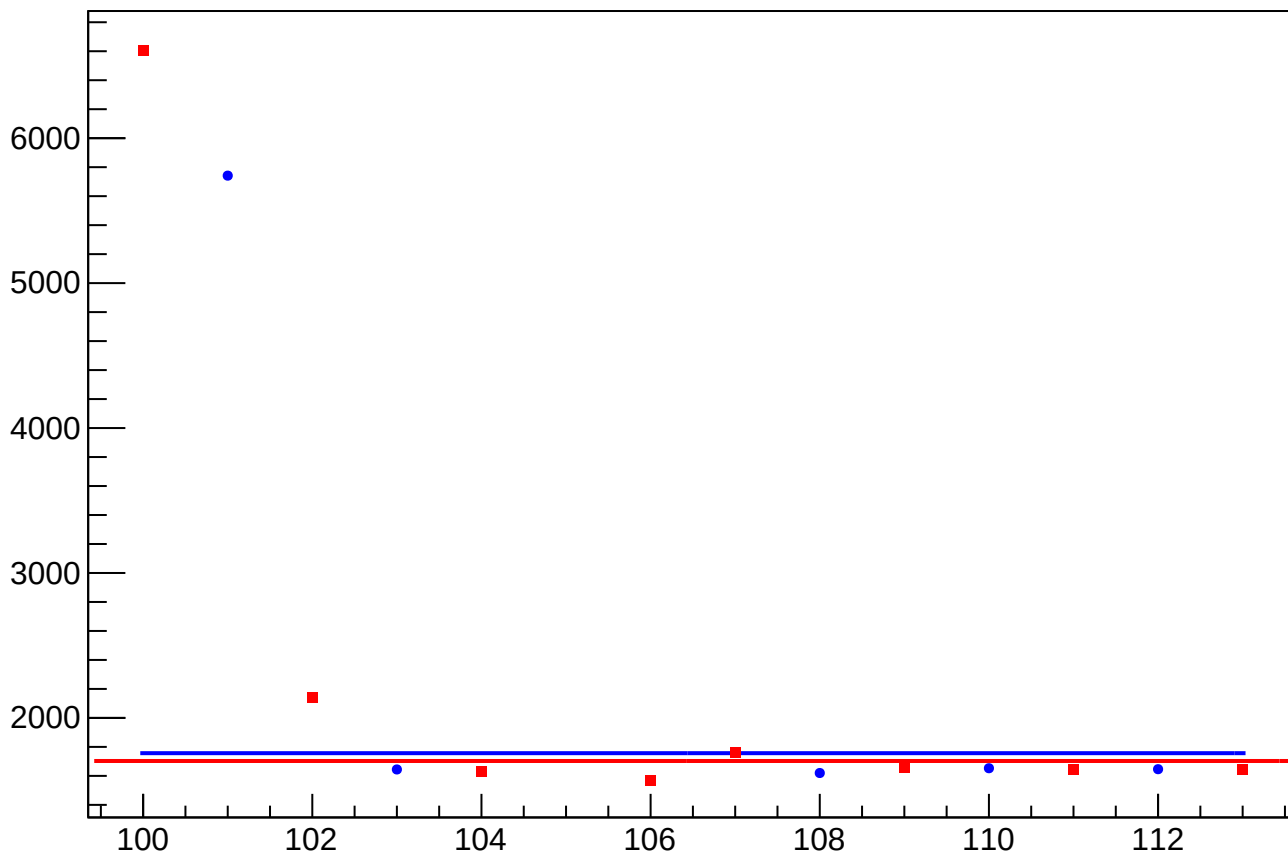
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -84.717 $\pm$ 766.591  $\chi^2$ /NDF: 10.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1756.693+/-0.842  $\chi^2/\text{NDF}$ : 649768.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1702.790+/-0.697  $\chi^2/\text{NDF}$ : 129887.8/7

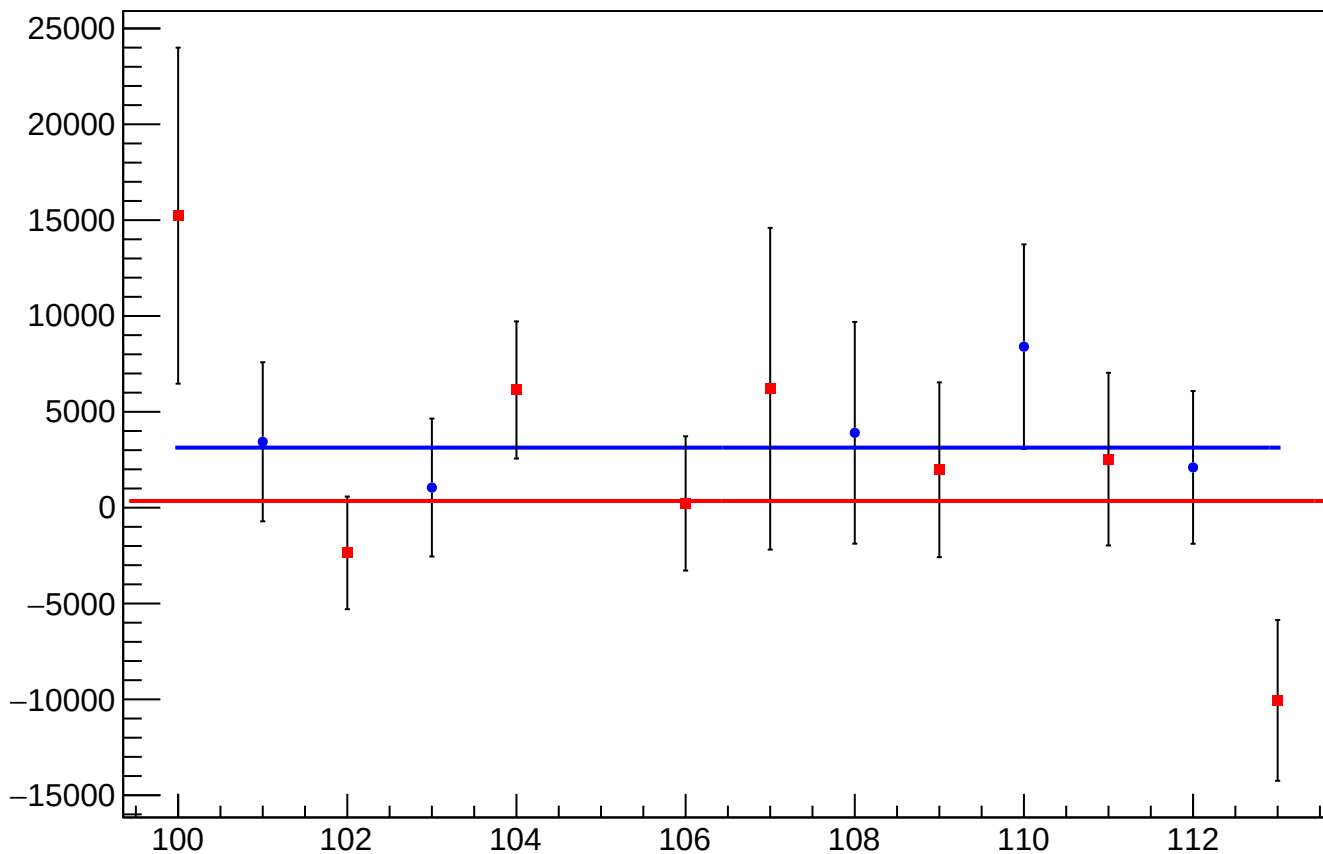
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1724.699+/-0.537  $\chi^2/\text{NDF}$ : 782090.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_reg\_correction\_mean vs Slug



Right In: 3132.766 $\pm$ 1948.712  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 348.602 $\pm$ 1479.637  $\chi^2$ /NDF: 13.4/7

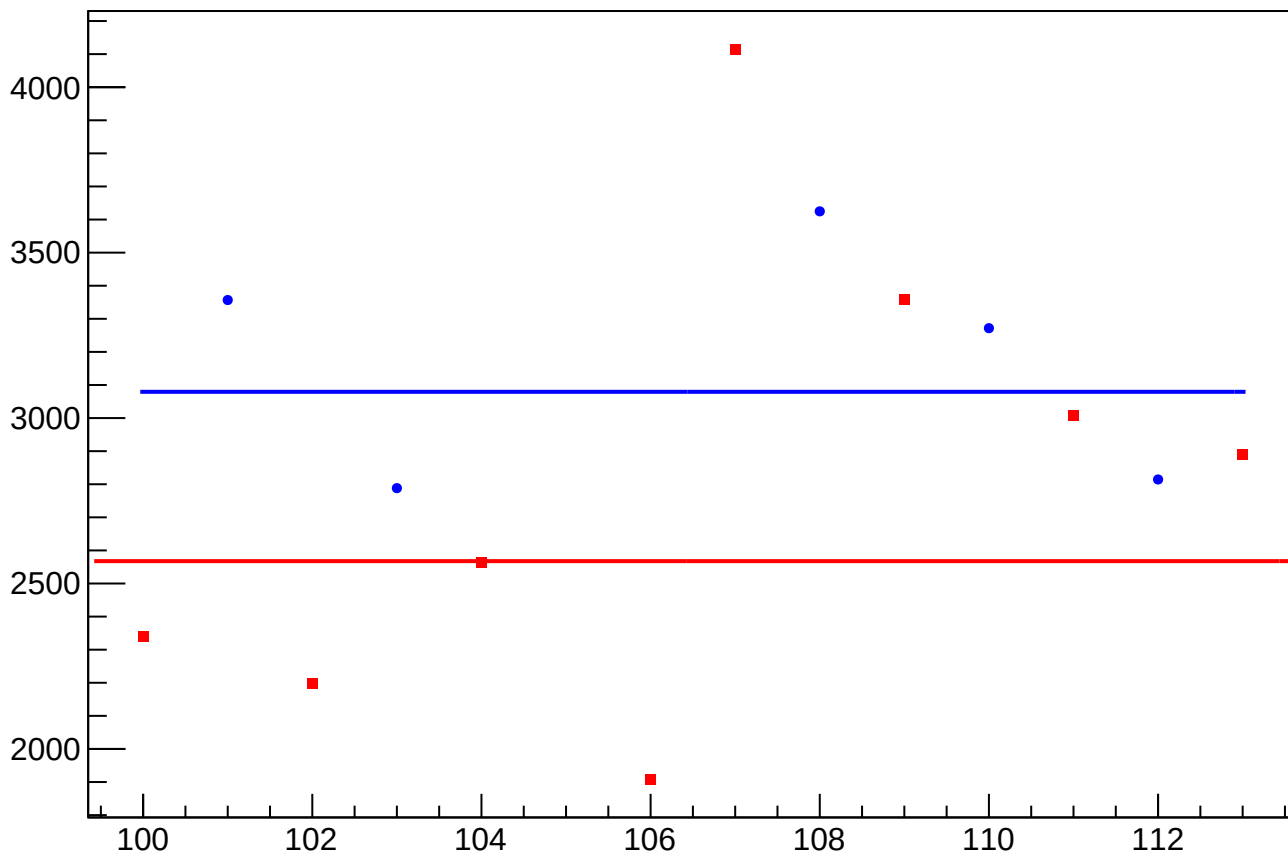
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1366.748 $\pm$ 1178.434  $\chi^2$ /NDF: 16.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_dd\_reg\_correction\_rms vs Slug



Right In: 3079.368+/-1.378  $\chi^2/\text{NDF}$ : 51257.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2567.653+/-1.046  $\chi^2/\text{NDF}$ : 263361.9/7

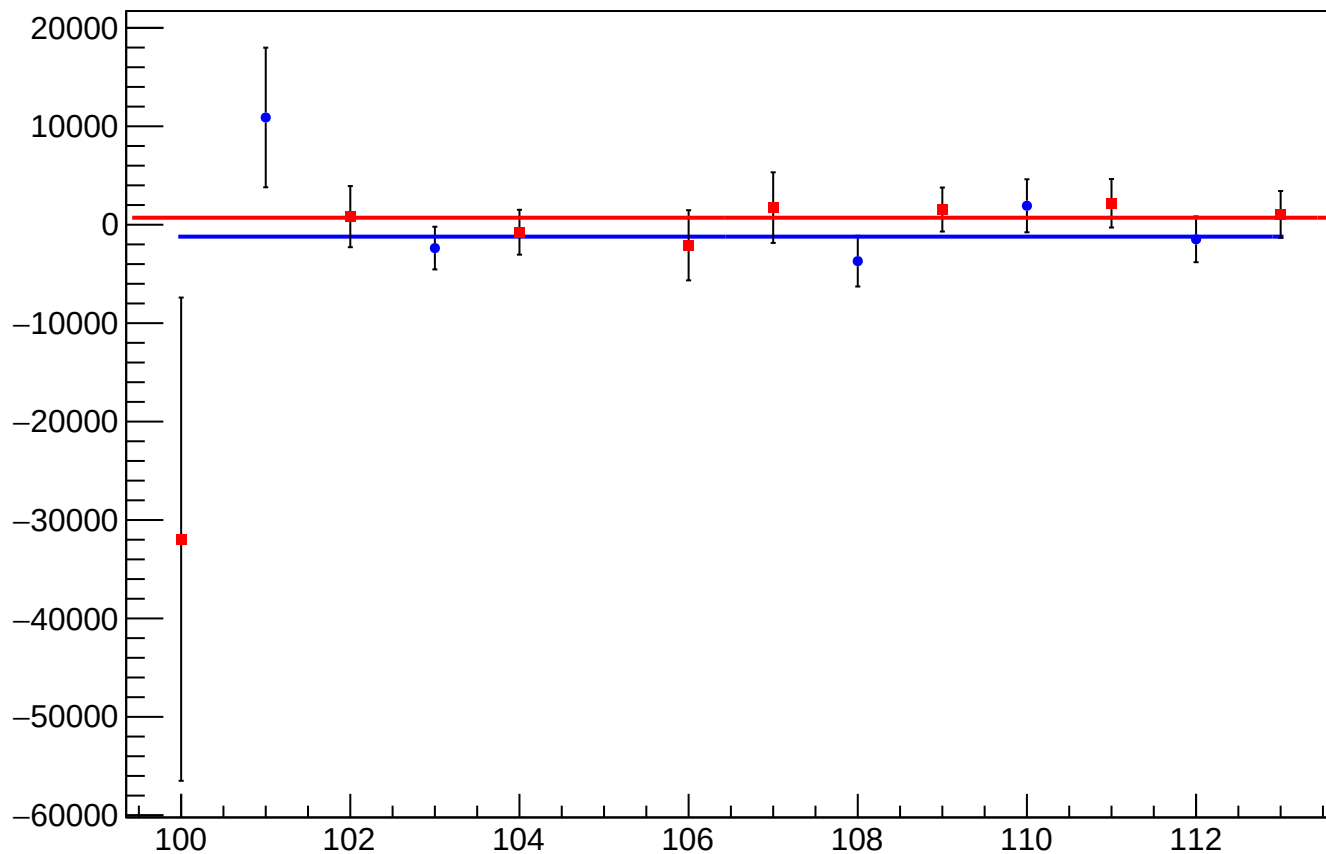
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2754.783+/-0.833  $\chi^2/\text{NDF}$ : 402095.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -1210.052 $\pm$ 1190.410  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 711.582 $\pm$ 1002.015  $\chi^2$ /NDF: 3.4/7

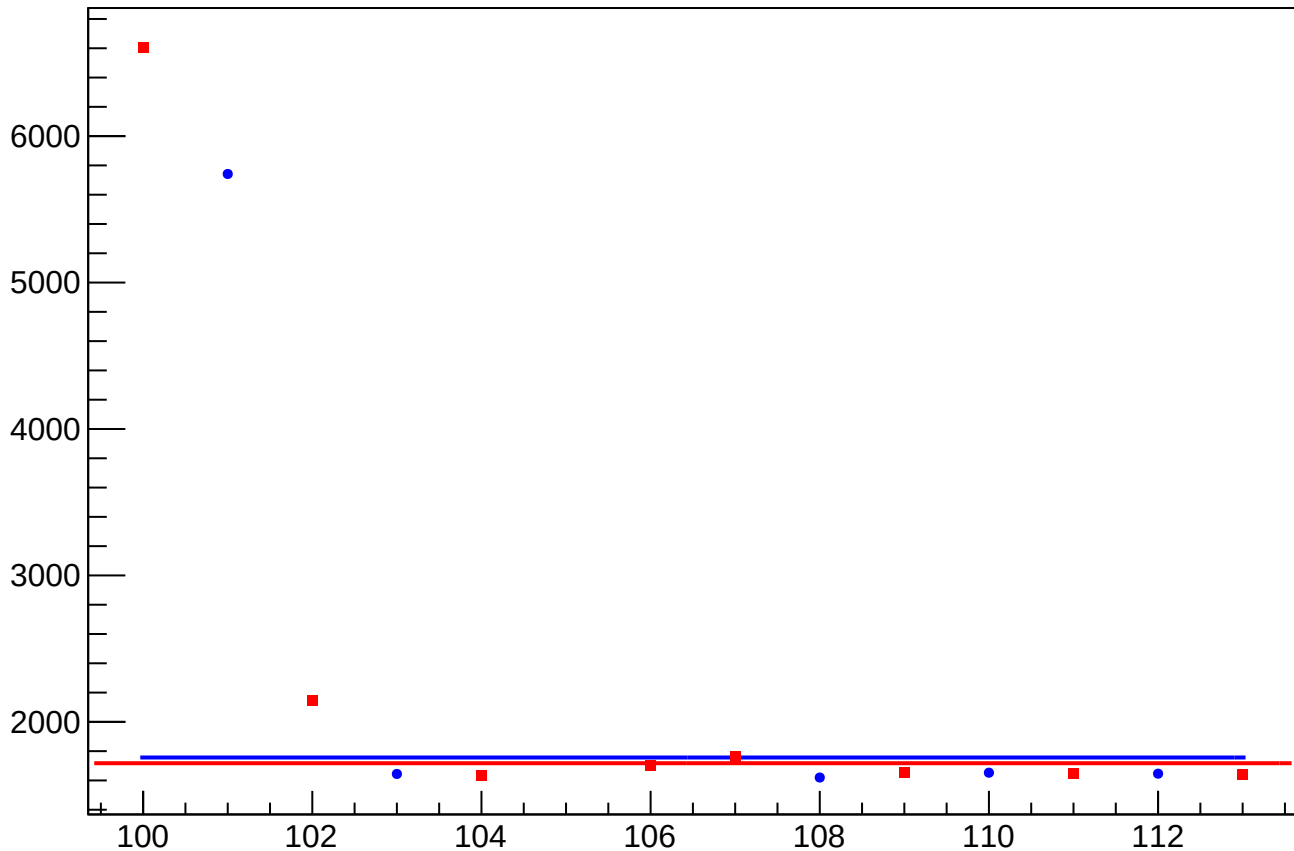
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -85.320 $\pm$ 766.591  $\chi^2$ /NDF: 10.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1756.692+/-0.842  $\chi^2/\text{NDF}$ : 649768.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1717.691+/-0.702  $\chi^2/\text{NDF}$ : 125333.8/7

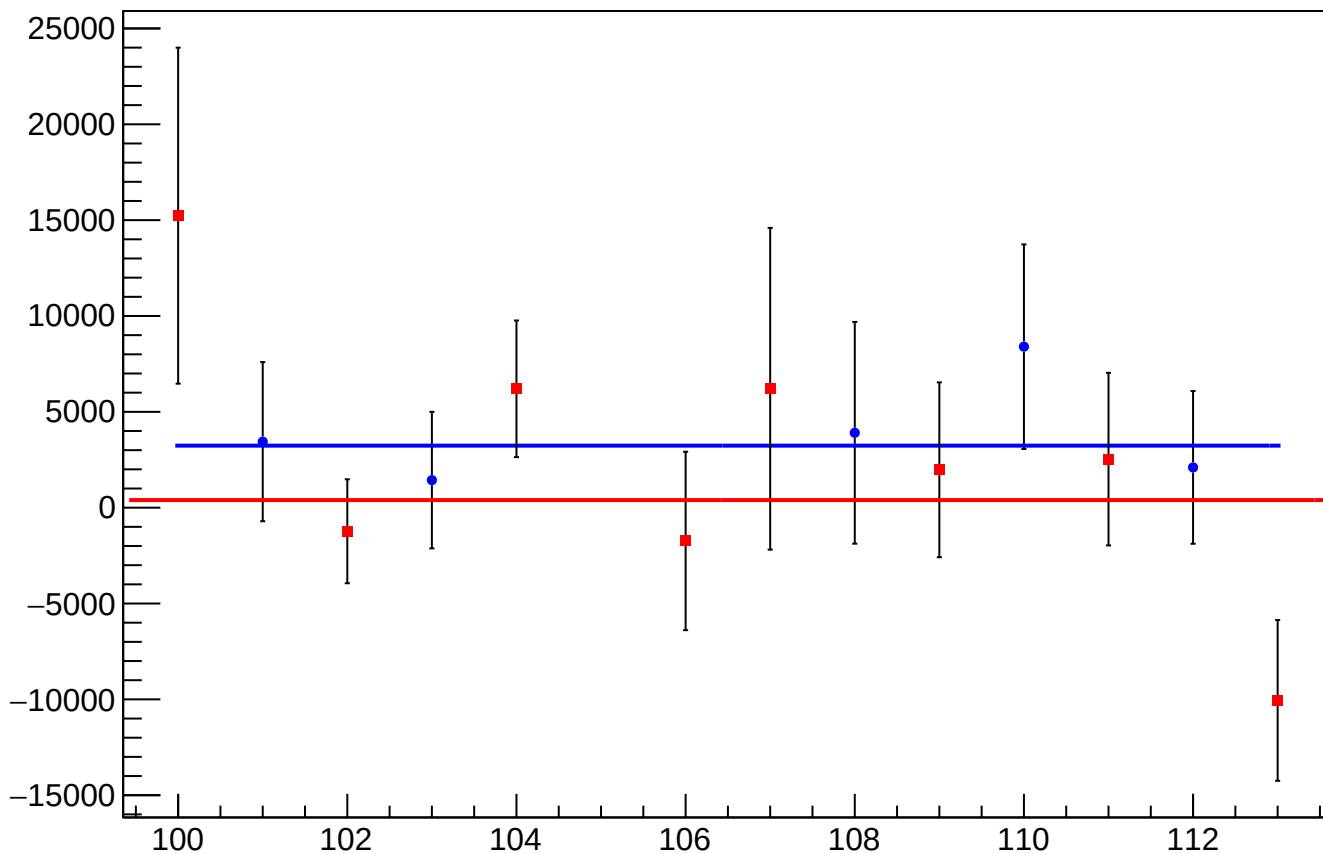
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1733.700+/-0.539  $\chi^2/\text{NDF}$ : 776367.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_cor\_correction\_mean vs Slug



Right In: 3236.094 $\pm$ 1942.991  $\chi^2$ /NDF: 1.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 396.068 $\pm$ 1503.771  $\chi^2$ /NDF: 13.1/7

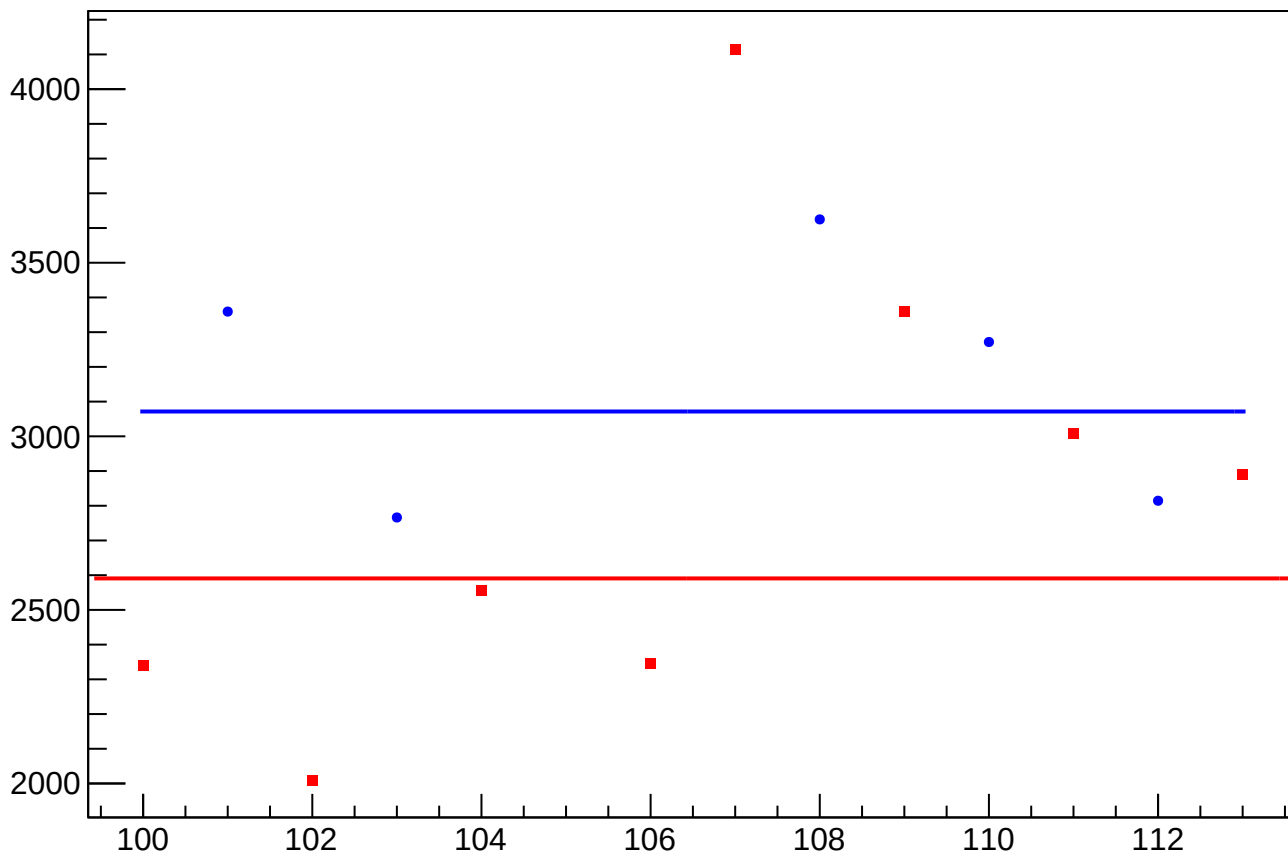
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1459.960 $\pm$ 1189.209  $\chi^2$ /NDF: 15.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_dd\_cor\_correction\_rms vs Slug



Right In: 3071.503+/-1.374  $\chi^2/\text{NDF}$ : 53750.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2590.691+/-1.063  $\chi^2/\text{NDF}$ : 248995.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

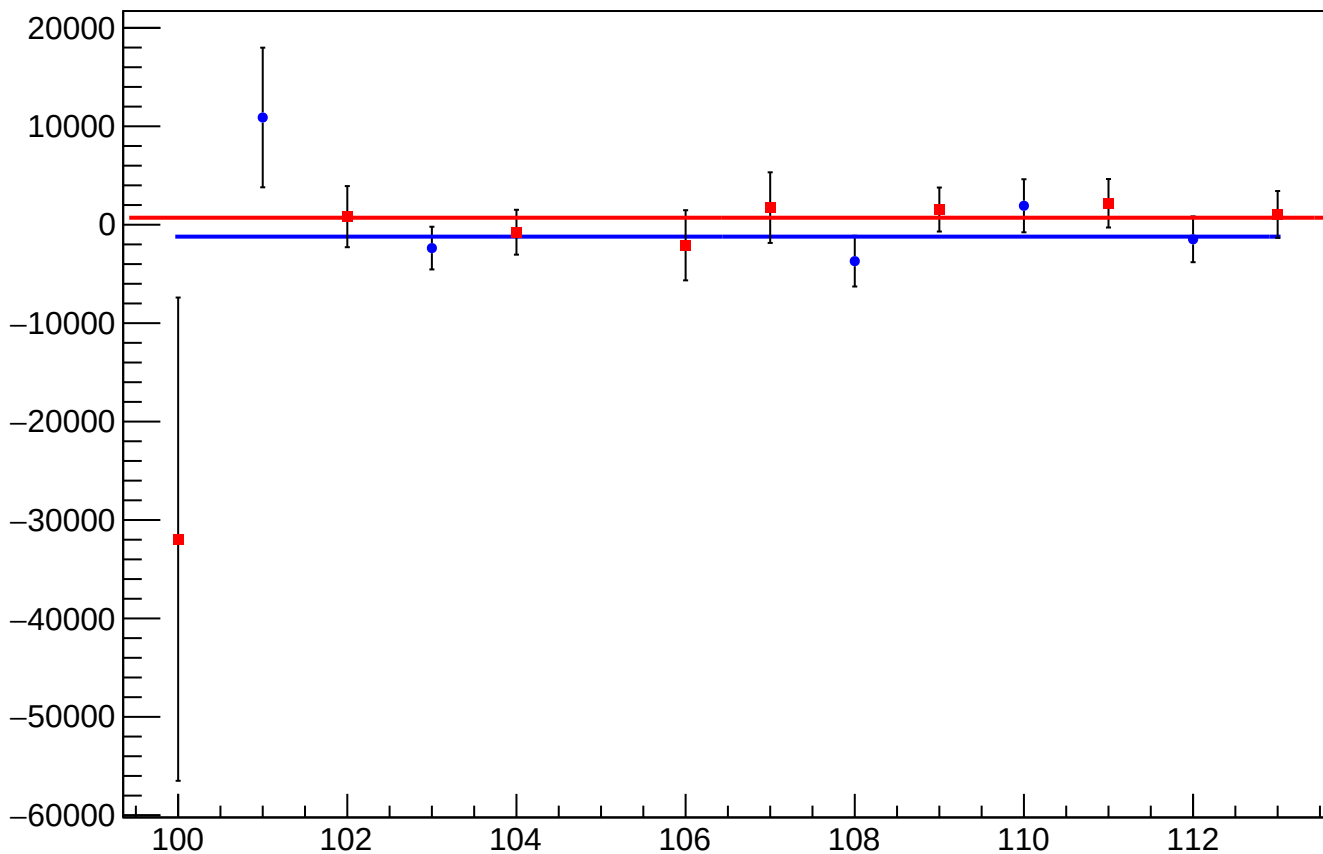
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2770.806+/-0.841  $\chi^2/\text{NDF}$ : 379339.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -1210.052 $\pm$ 1190.410  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 711.582 $\pm$ 1002.015  $\chi^2$ /NDF: 3.4/7

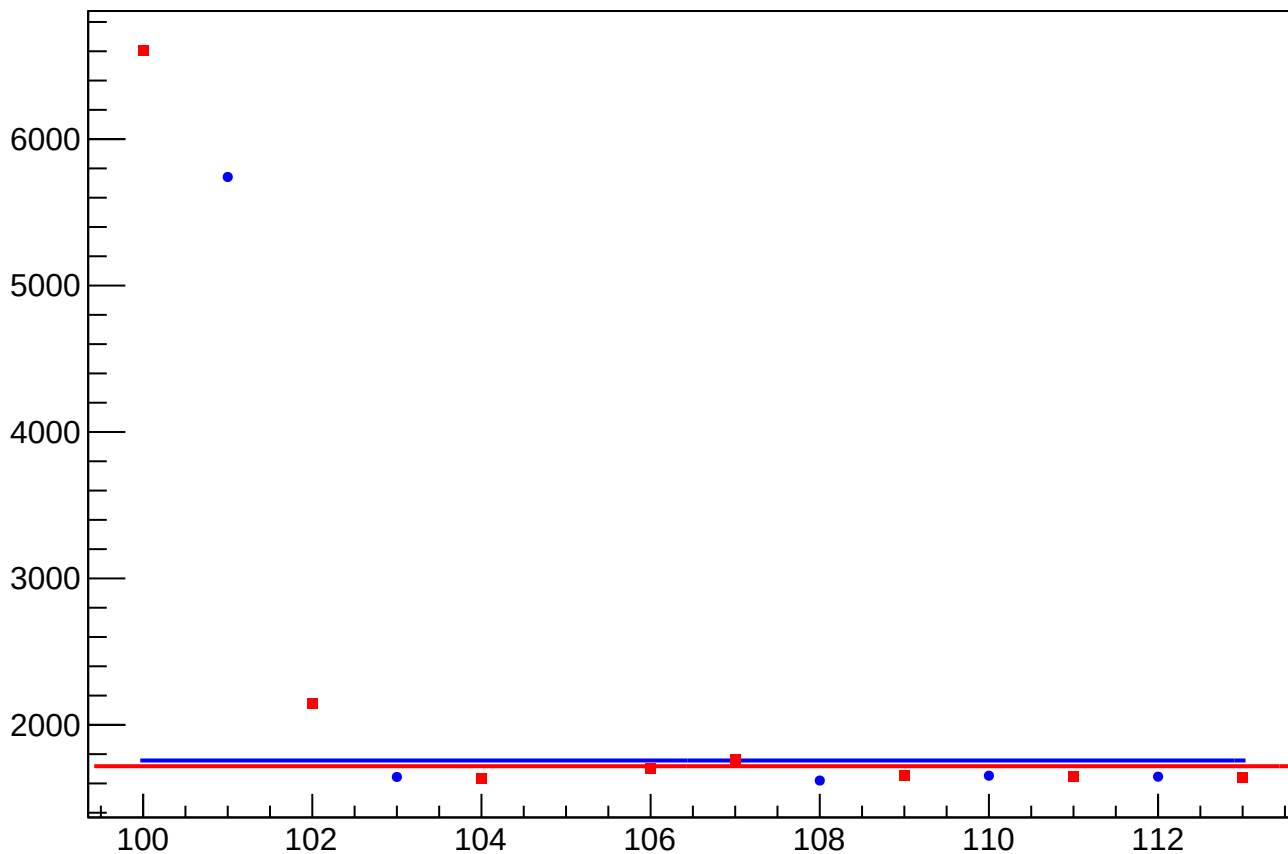
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -85.320 $\pm$ 766.591  $\chi^2$ /NDF: 10.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1756.692 $\pm$ 0.842  $\chi^2$ /NDF: 649768.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1717.691 $\pm$ 0.702  $\chi^2$ /NDF: 125333.8/7

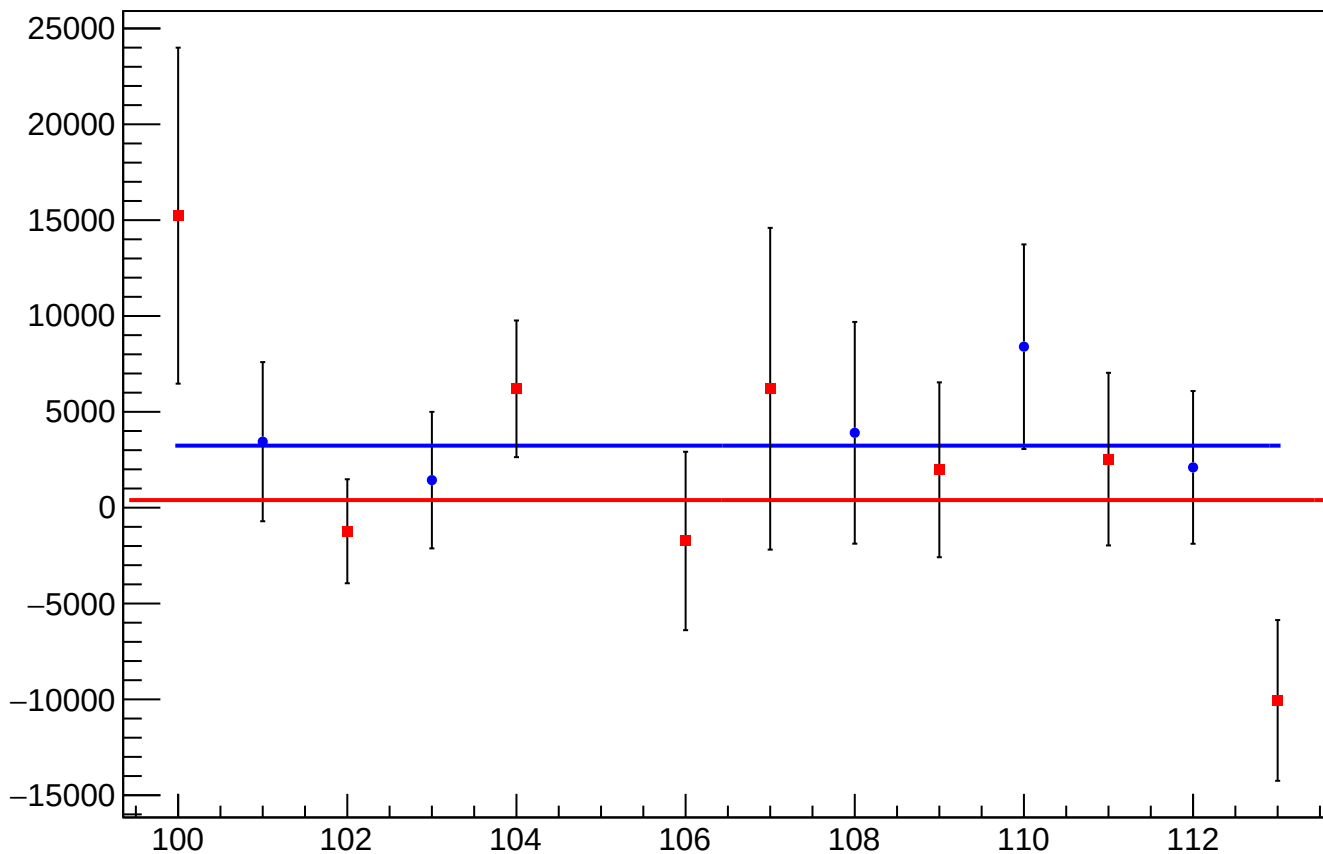
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1733.700 $\pm$ 0.539  $\chi^2$ /NDF: 776367.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 3236.094+/-1942.991  $\chi^2/\text{NDF}$ : 1.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 396.068+/-1503.771  $\chi^2/\text{NDF}$ : 13.1/7

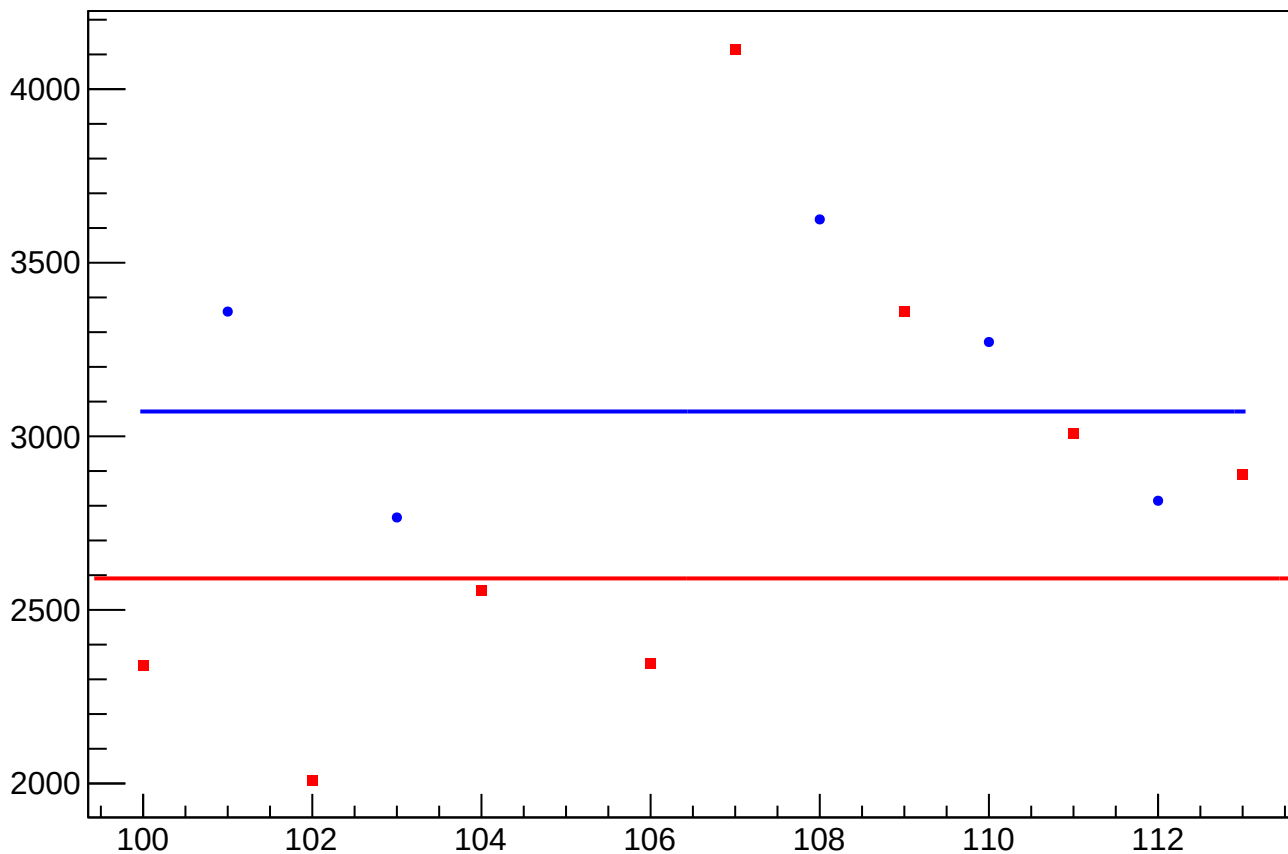
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1459.960+/-1189.209  $\chi^2/\text{NDF}$ : 15.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3071.503+/-1.374  $\chi^2/\text{NDF}$ : 53750.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2590.691+/-1.063  $\chi^2/\text{NDF}$ : 248995.3/7

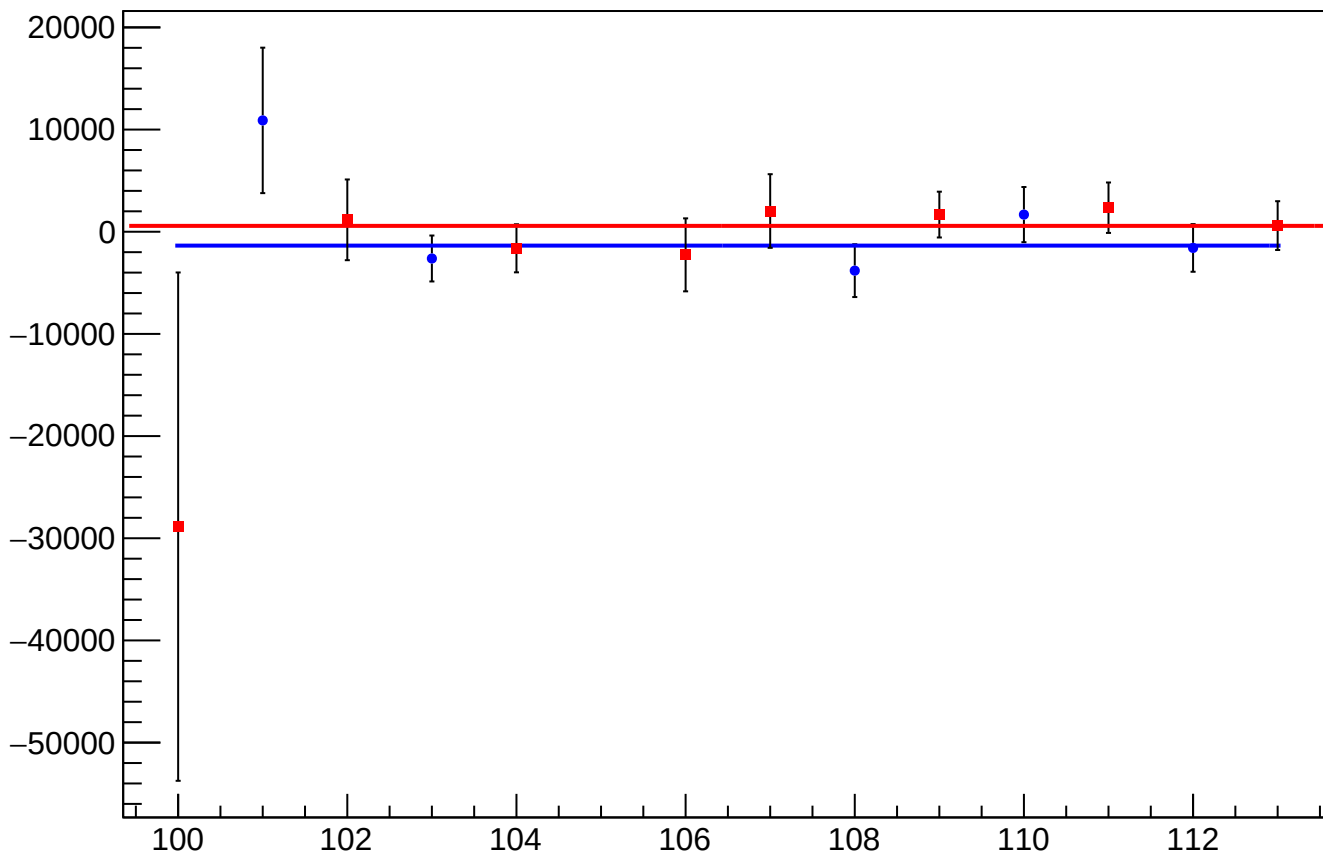
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2770.806+/-0.841  $\chi^2/\text{NDF}$ : 379339.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -1357.439 $\pm$ 1205.407  $\chi^2$ /NDF: 5.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 574.541 $\pm$ 1031.299  $\chi^2$ /NDF: 3.8/7

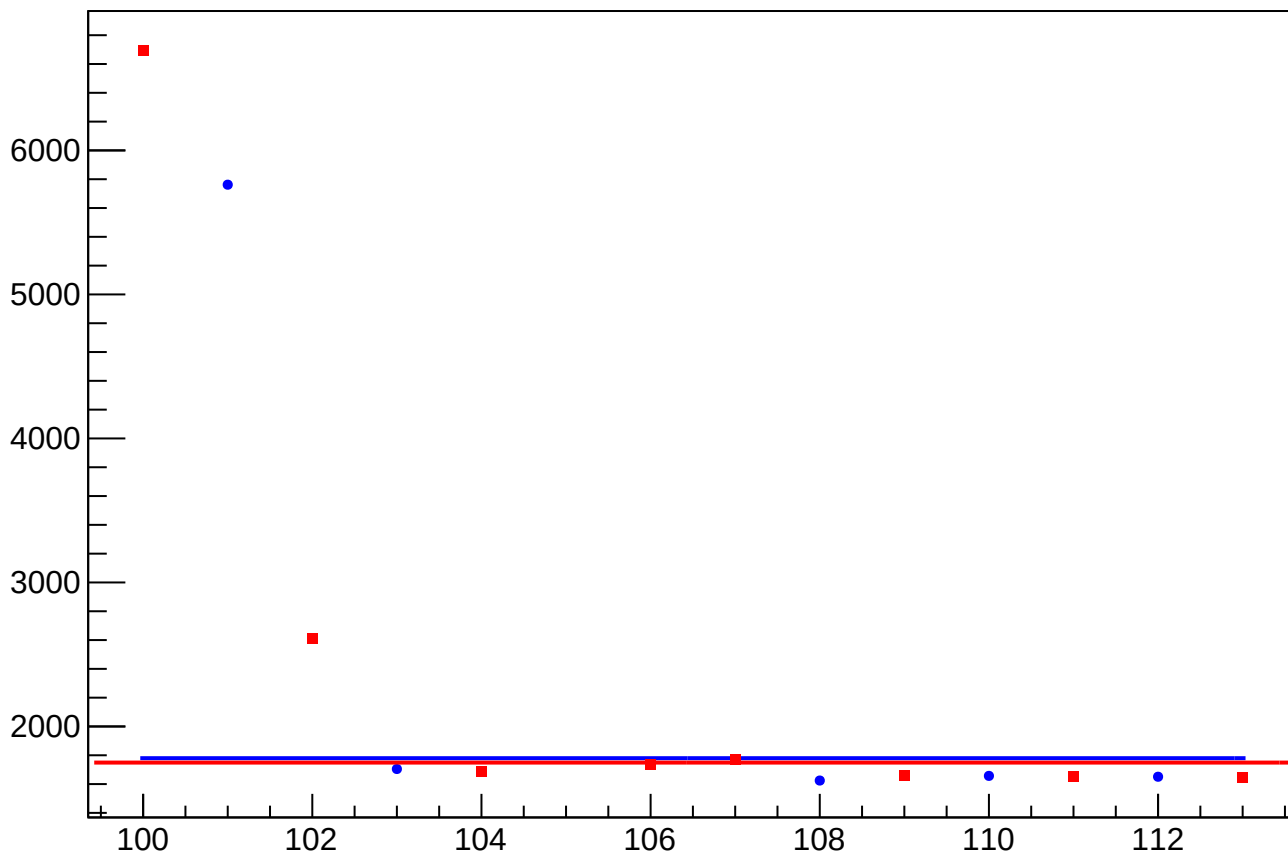
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -241.967 $\pm$ 783.633  $\chi^2$ /NDF: 10.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1779.765+/-0.852  $\chi^2/\text{NDF}$ : 645593.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1749.263+/-0.724  $\chi^2/\text{NDF}$ : 186430.2/7

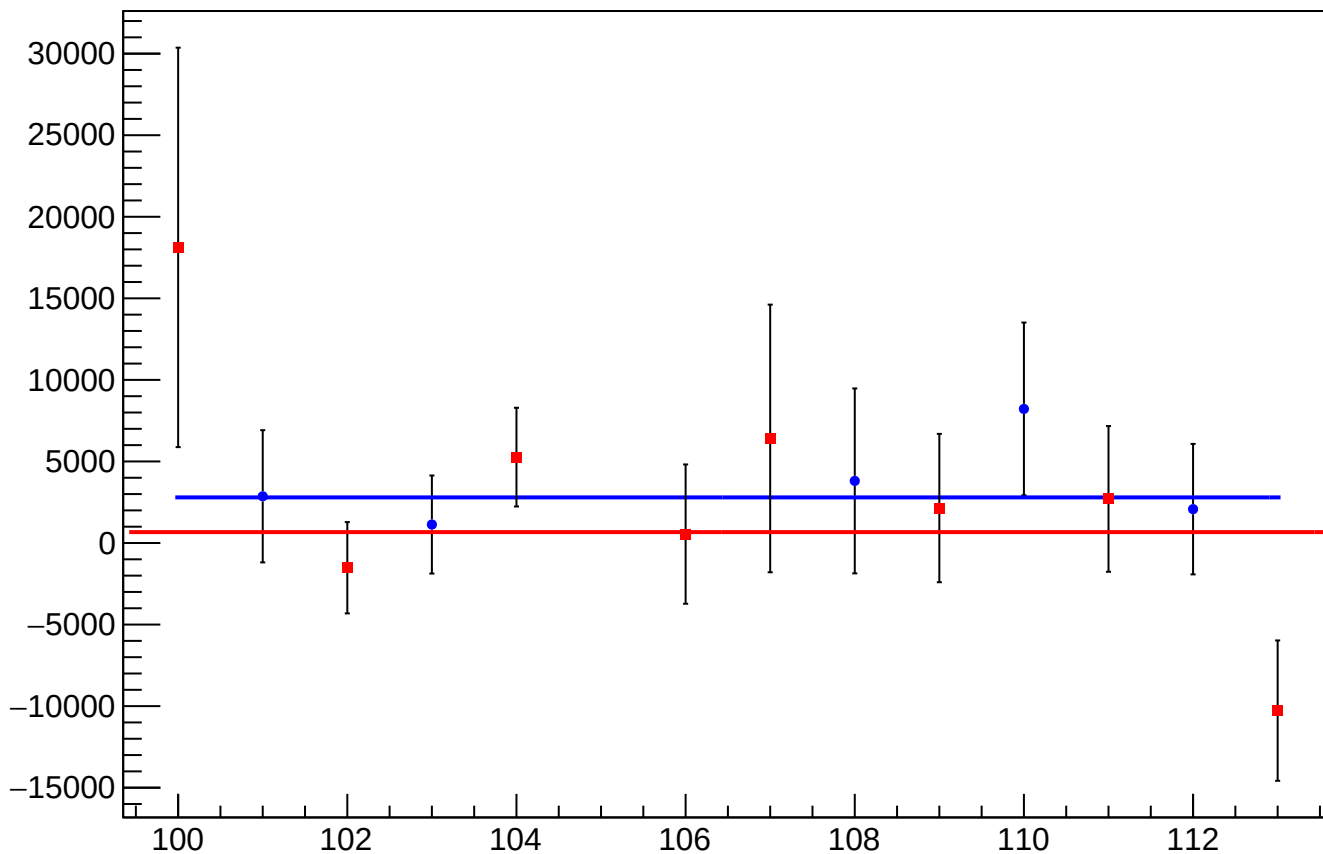
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1762.048+/-0.552  $\chi^2/\text{NDF}$ : 832767.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_dit\_correction\_mean vs Slug



Right In: 2796.190+/-1823.285  $\chi^2/\text{NDF}$ : 1.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 668.167+/-1465.223  $\chi^2/\text{NDF}$ : 12.2/7

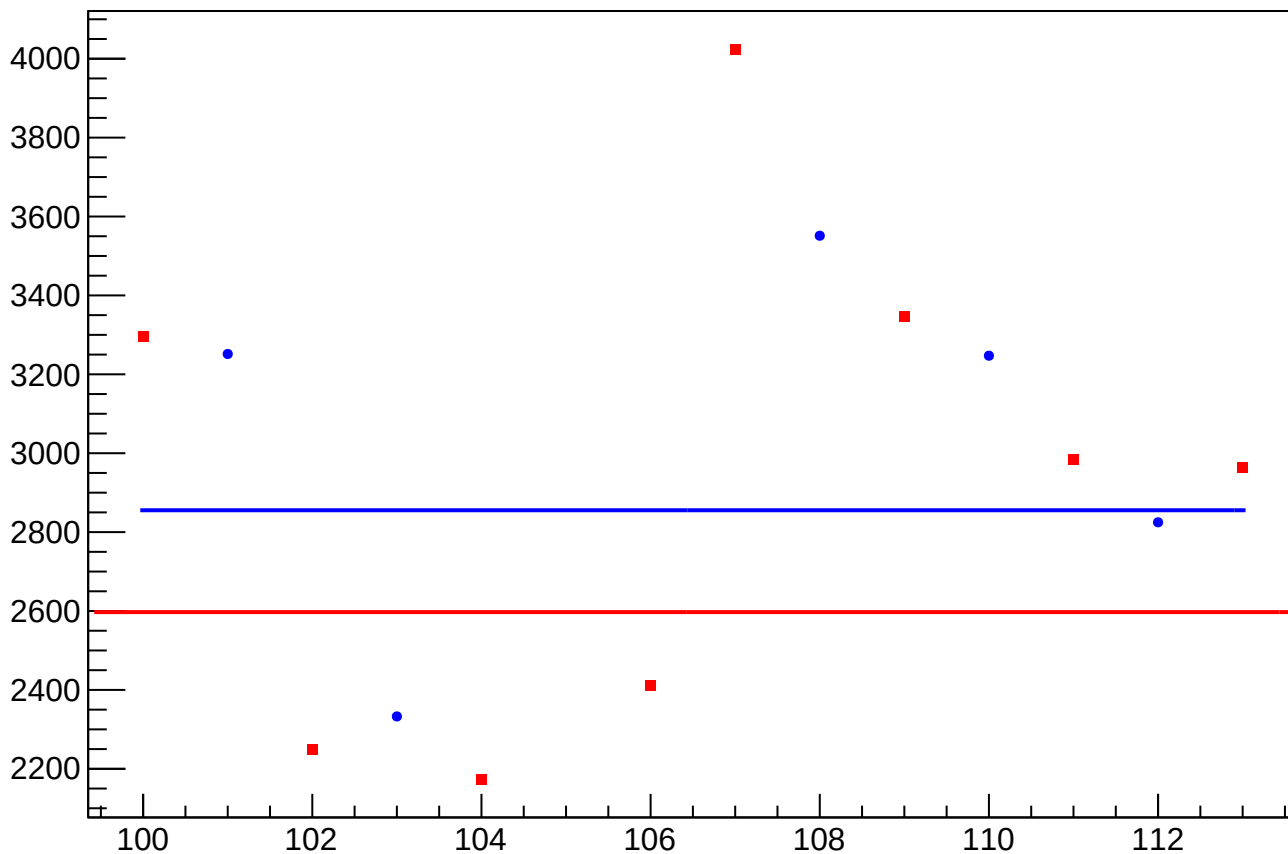
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1503.188+/-1142.129  $\chi^2/\text{NDF}$ : 14.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_dit\_correction\_rms vs Slug



Right In: 2855.432 $\pm$ 1.289  $\chi^2$ /NDF: 120748.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2597.270 $\pm$ 1.036  $\chi^2$ /NDF: 225192.2/7

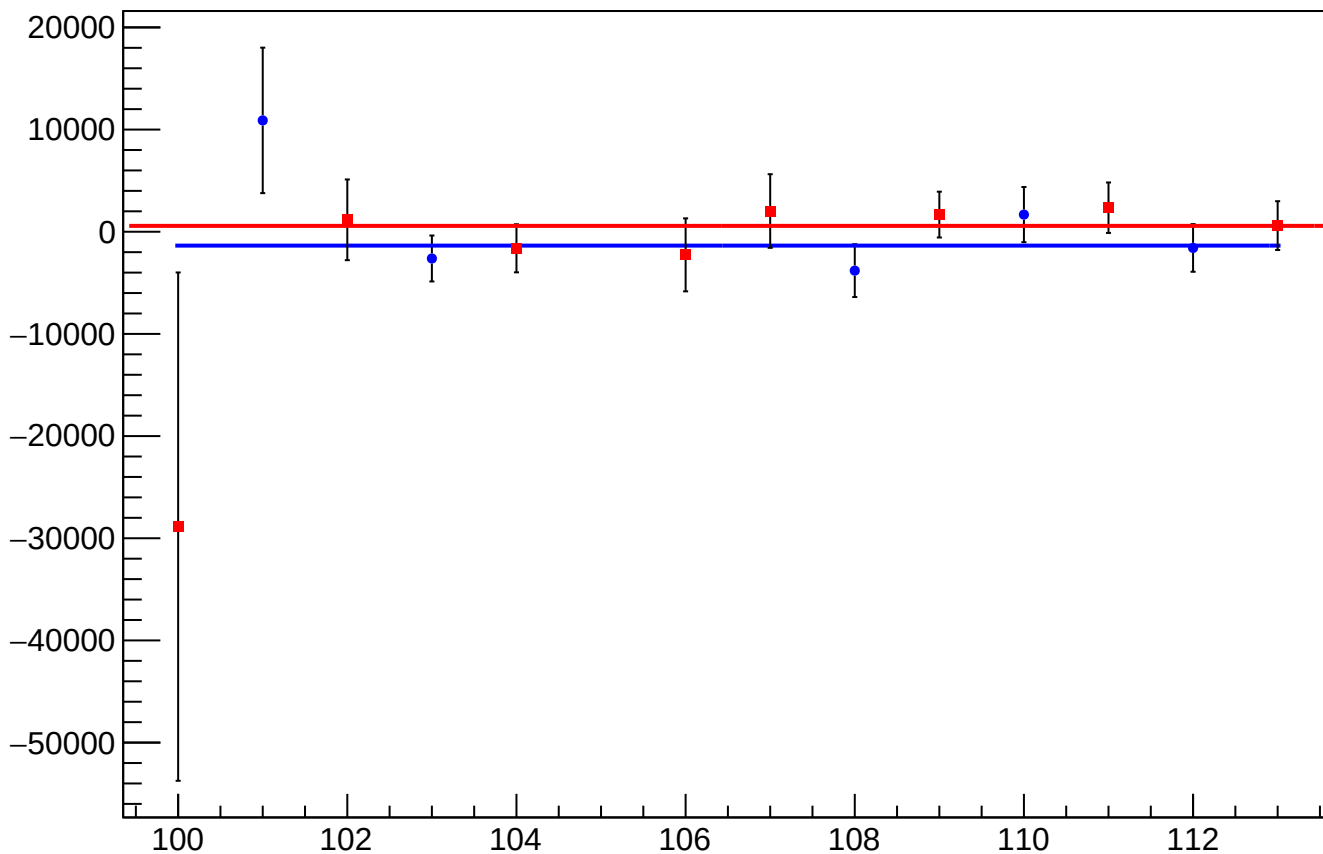
All: 2698.571 $\pm$ 0.808  $\chi^2$ /NDF: 370303.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_dit\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -1357.448 $\pm$ 1205.407  $\chi^2$ /NDF: 5.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 574.550 $\pm$ 1031.299  $\chi^2$ /NDF: 3.8/7

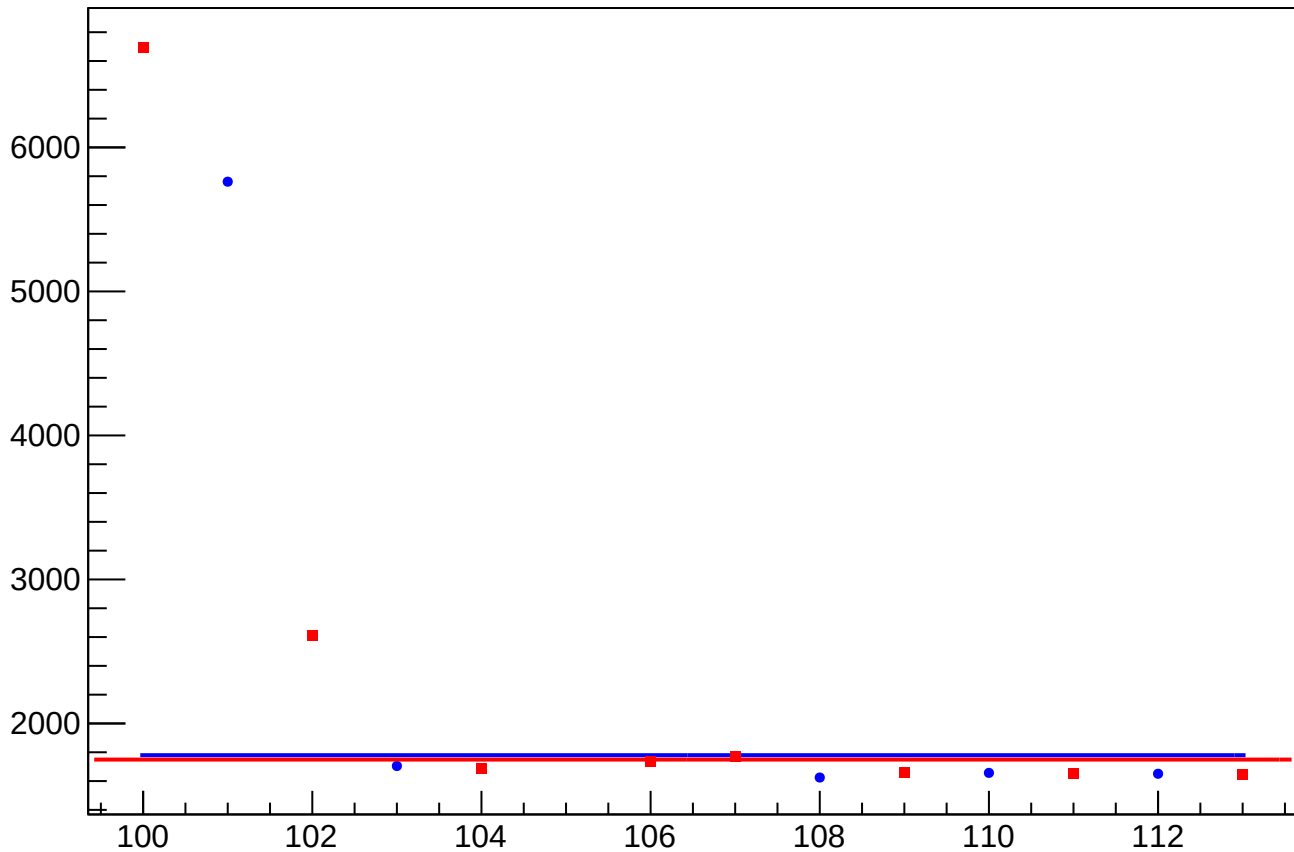
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -241.966 $\pm$ 783.633  $\chi^2$ /NDF: 10.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1779.765+/-0.852  $\chi^2/\text{NDF}$ : 645593.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1749.263+/-0.724  $\chi^2/\text{NDF}$ : 186430.2/7

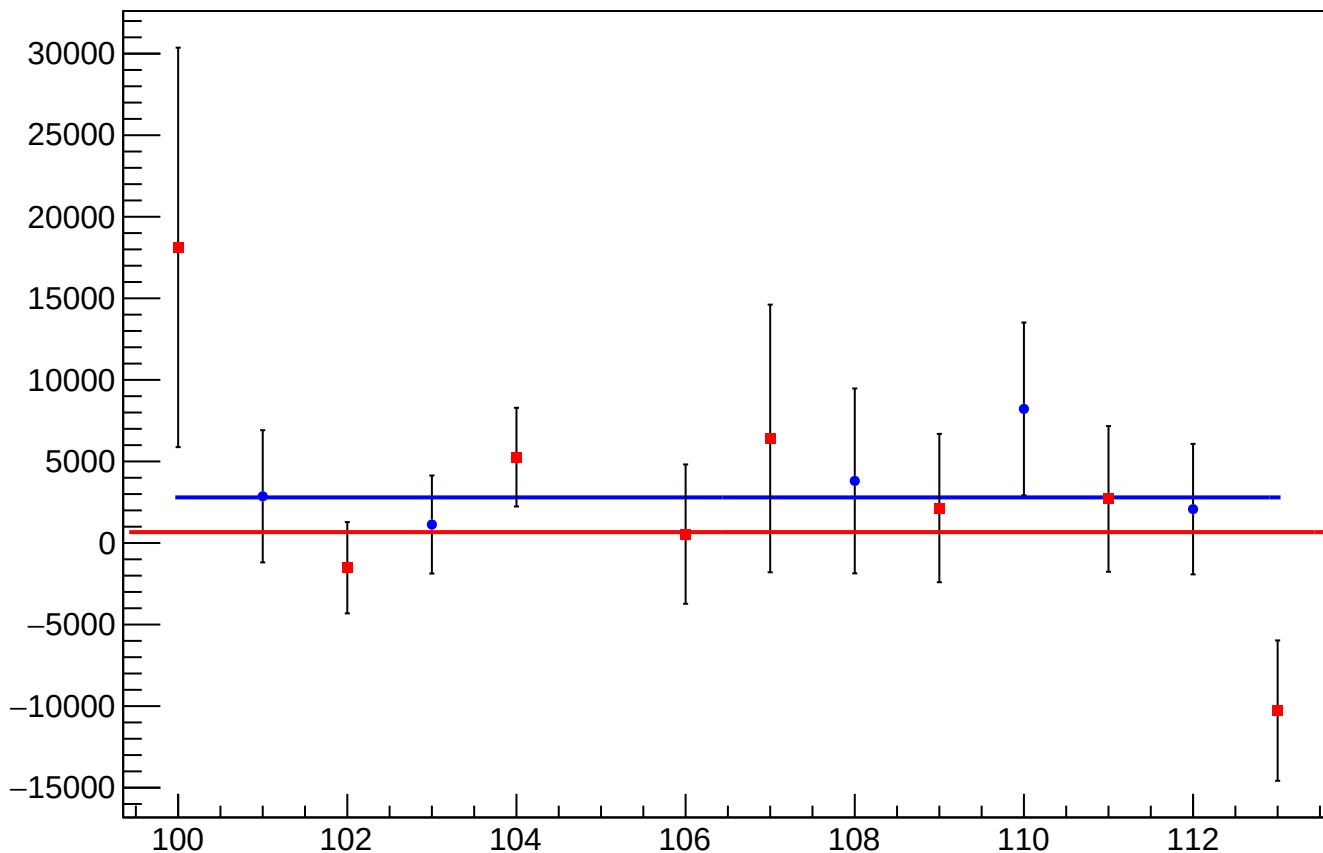
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1762.048+/-0.552  $\chi^2/\text{NDF}$ : 832767.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 2796.188 $\pm$ 1823.283  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 668.168 $\pm$ 1465.222  $\chi^2$ /NDF: 12.2/7

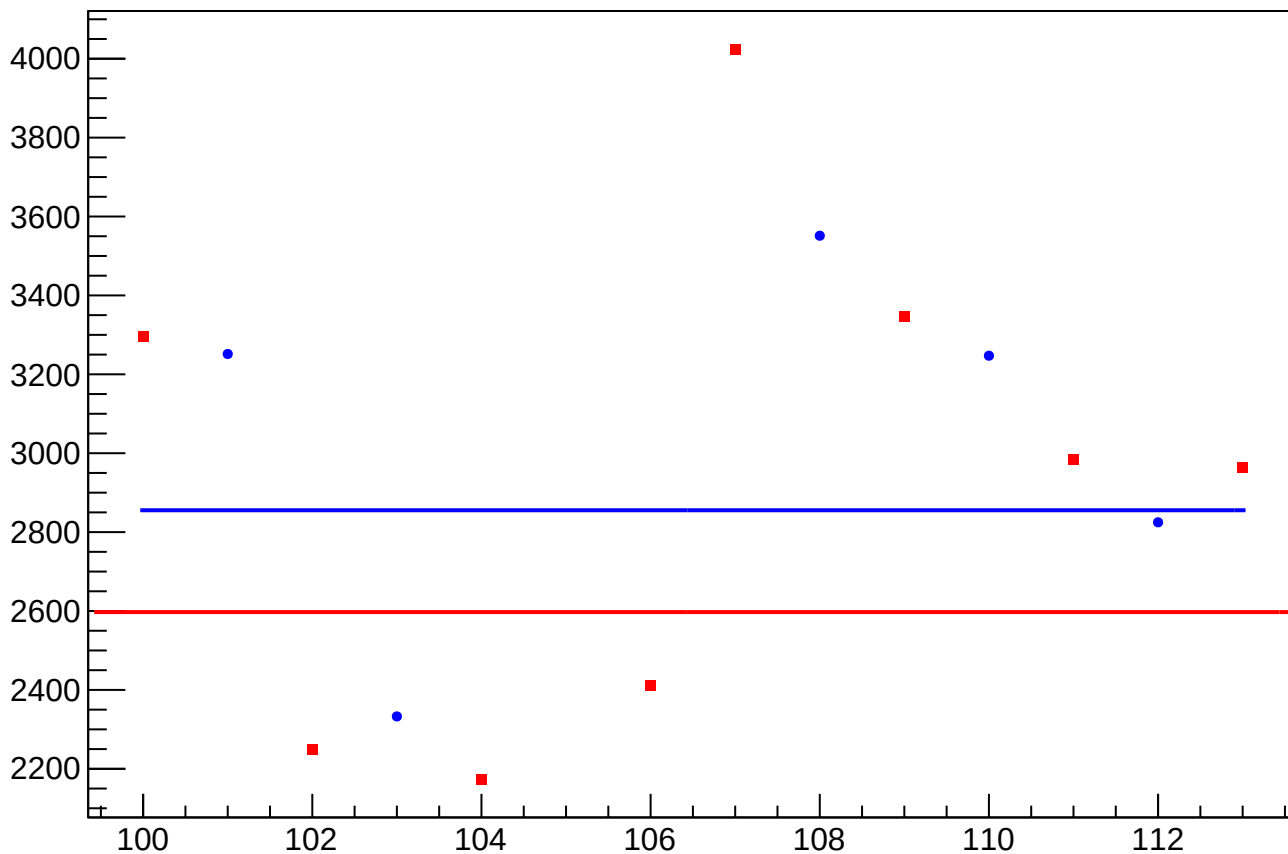
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1503.189 $\pm$ 1142.128  $\chi^2$ /NDF: 14.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 2855.430+/-1.289  $\chi^2/\text{NDF}$ : 120746.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2597.269+/-1.036  $\chi^2/\text{NDF}$ : 225188.8/7

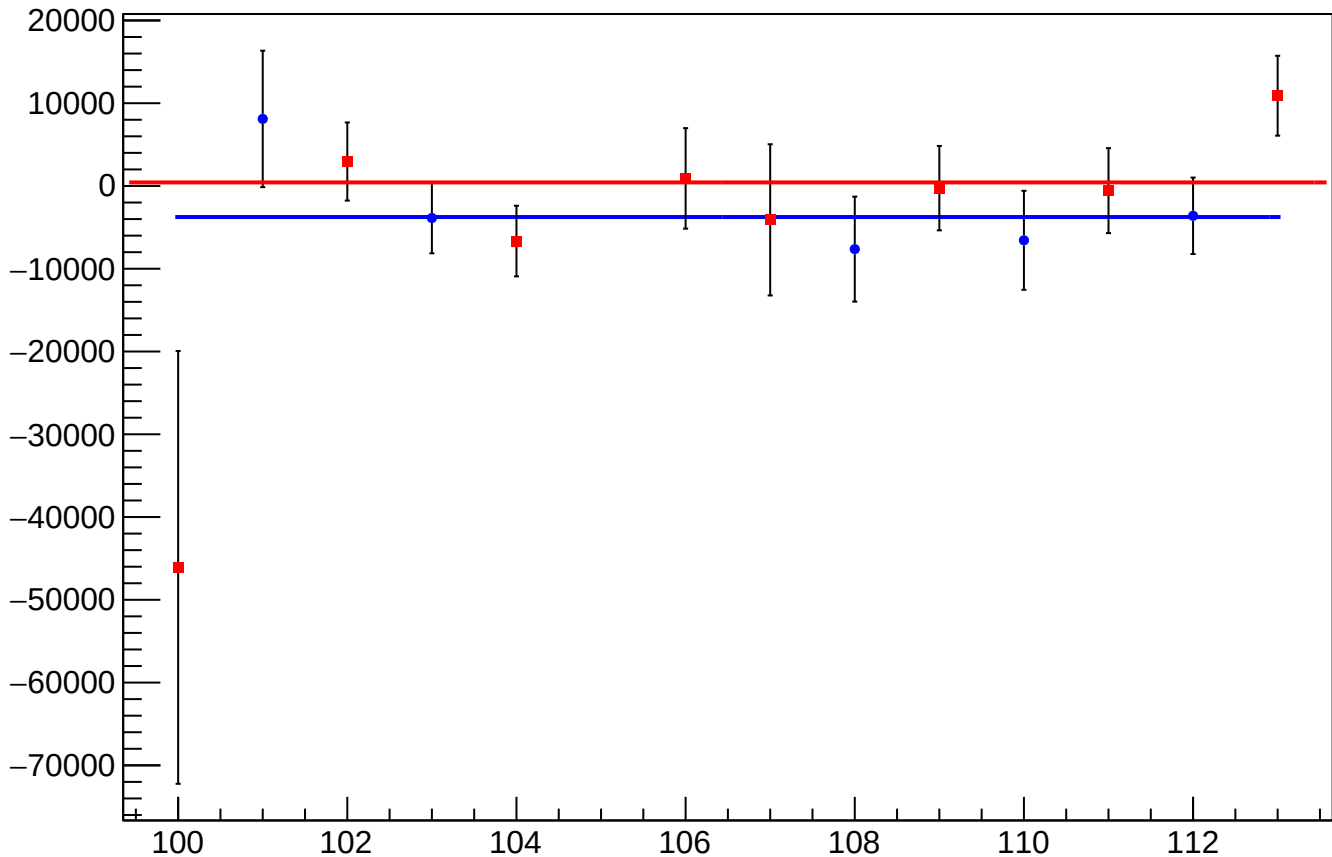
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2698.570+/-0.808  $\chi^2/\text{NDF}$ : 370297.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_mean vs Slug



Right In: -3751.728+/-2430.846  $\chi^2/\text{NDF}$ : 2.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 430.508+/-1962.312  $\chi^2/\text{NDF}$ : 11.2/7

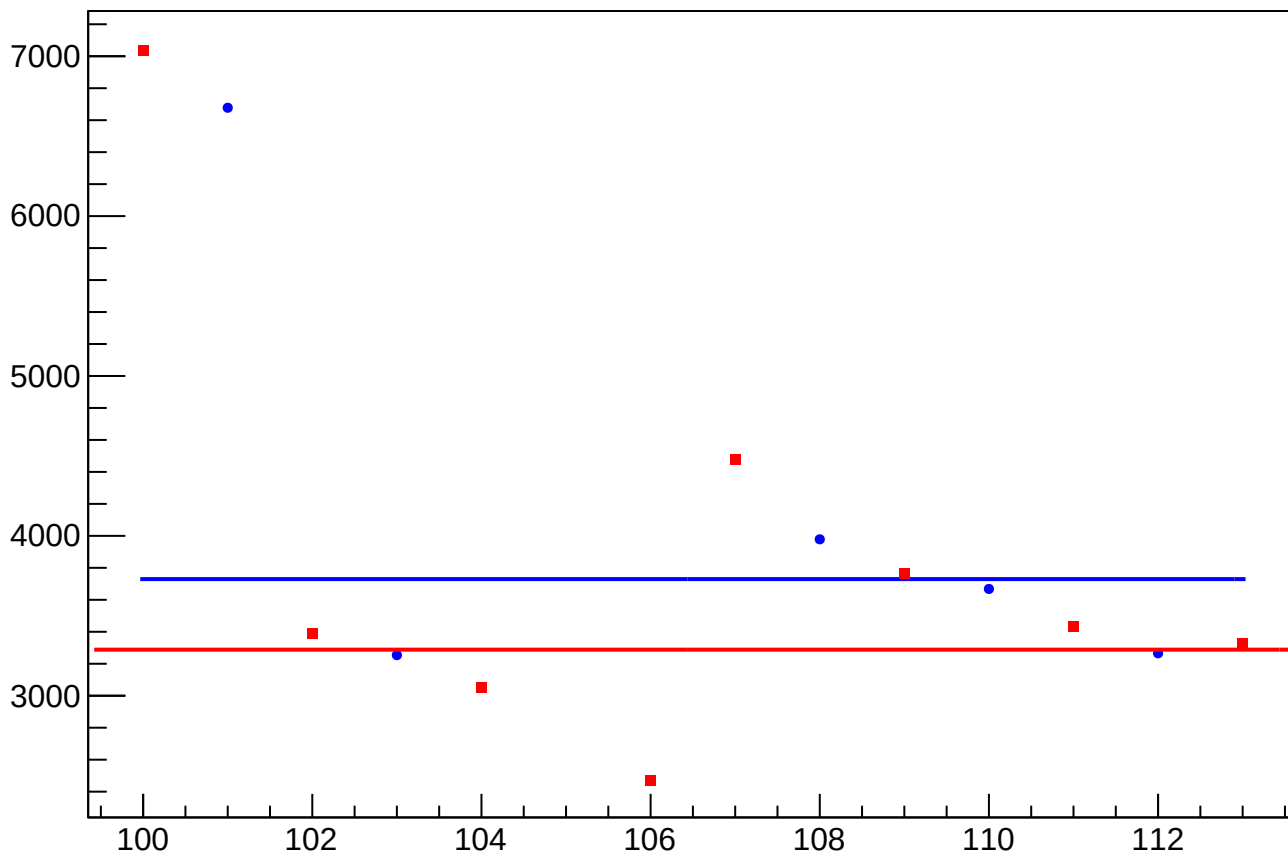
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1219.587+/-1526.890  $\chi^2/\text{NDF}$ : 15.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_rms vs Slug



Right In: 3729.554+/-1.719  $\chi^2/\text{NDF}$ : 303989.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3288.196+/-1.343  $\chi^2/\text{NDF}$ : 160707.2/7

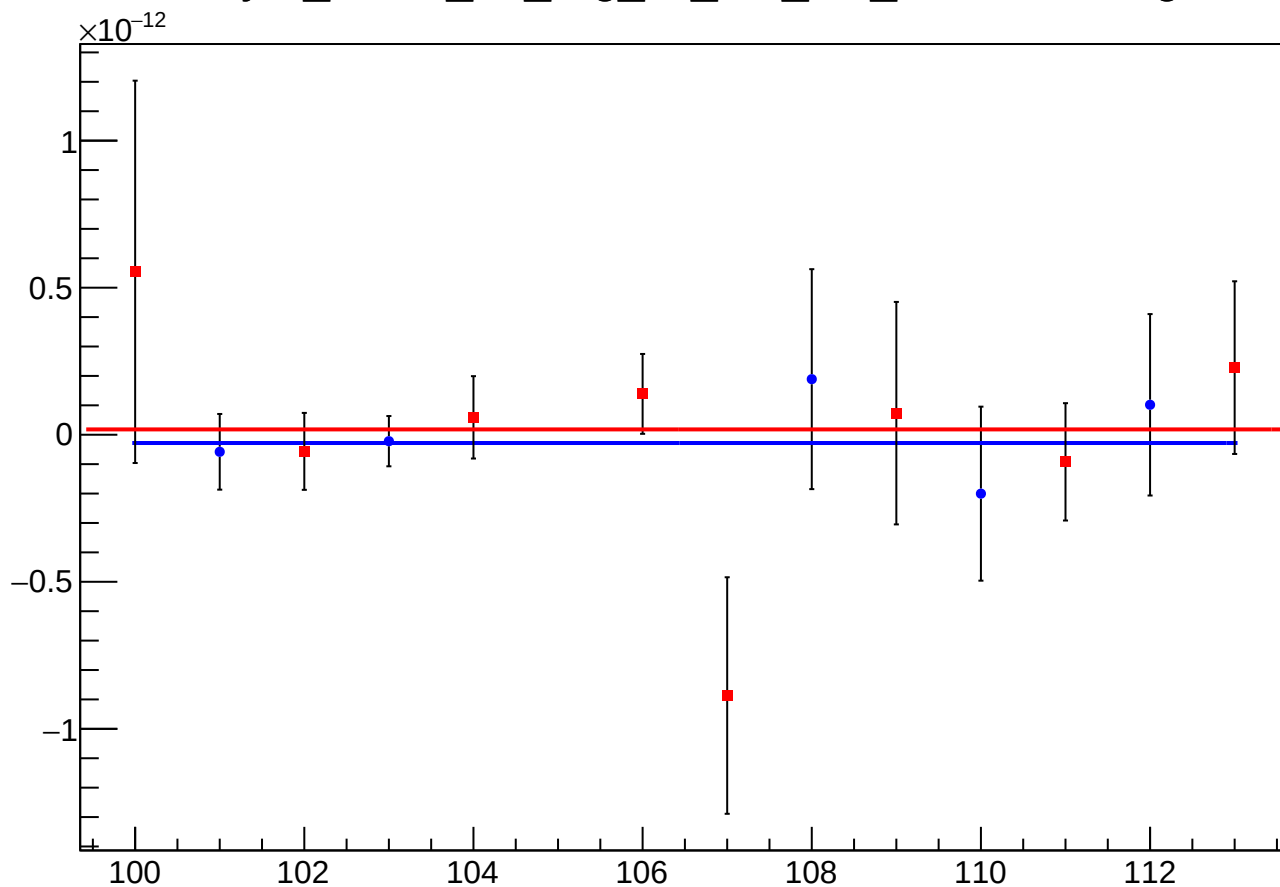
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3455.510+/-1.058  $\chi^2/\text{NDF}$ : 505635.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.8/7

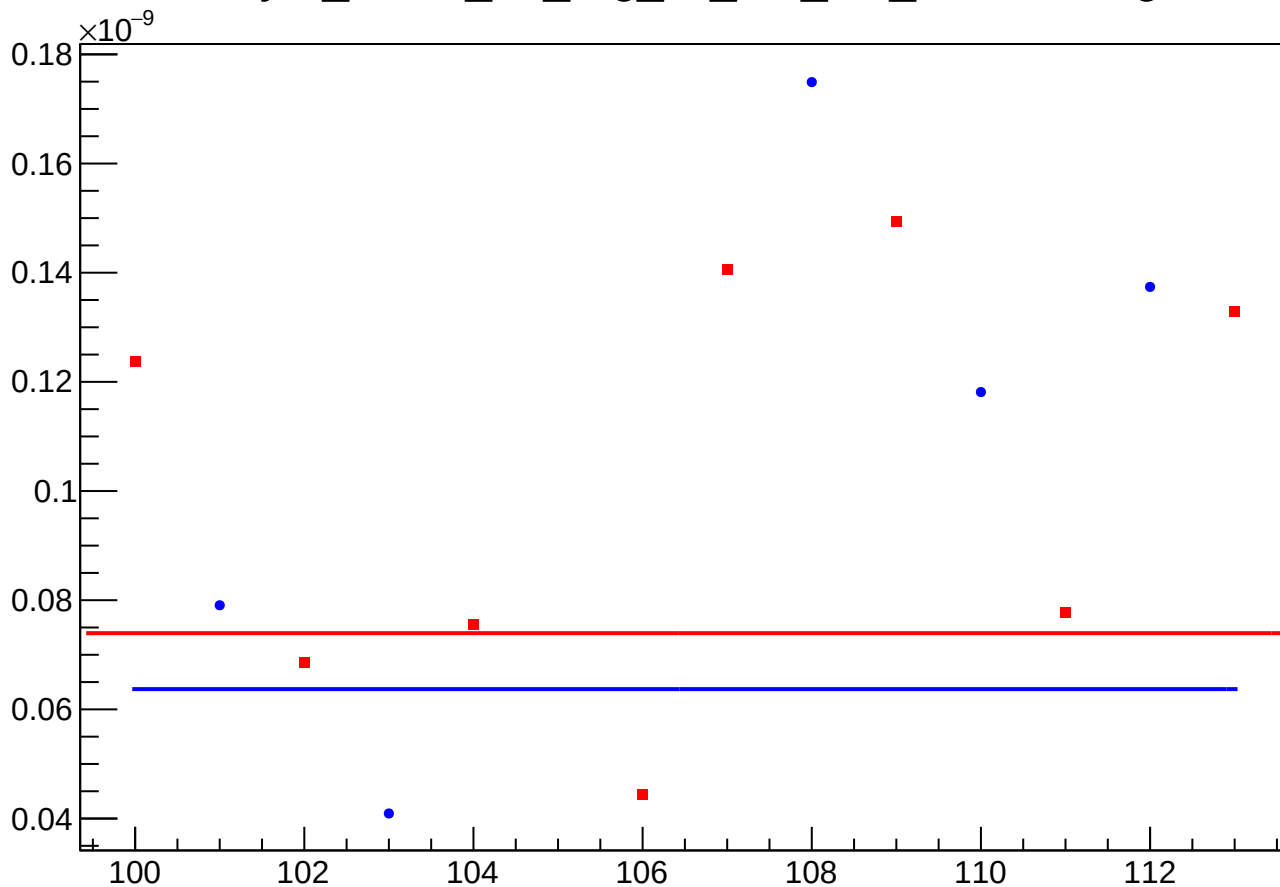
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 529354.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 325641.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

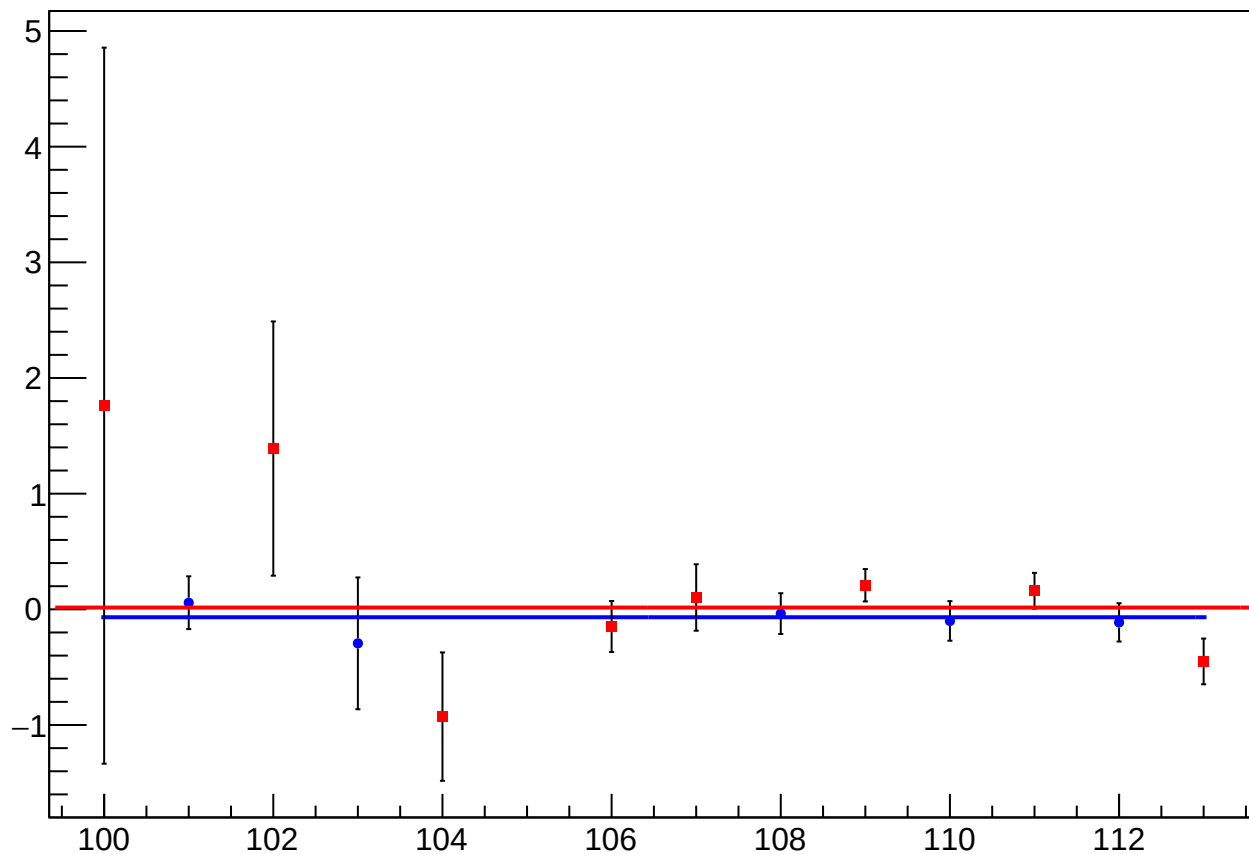
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 878228.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_atr1l2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.068 \pm 0.089$   $\chi^2/\text{NDF}$ : 0.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.015 \pm 0.080$   $\chi^2/\text{NDF}$ : 13.8/7

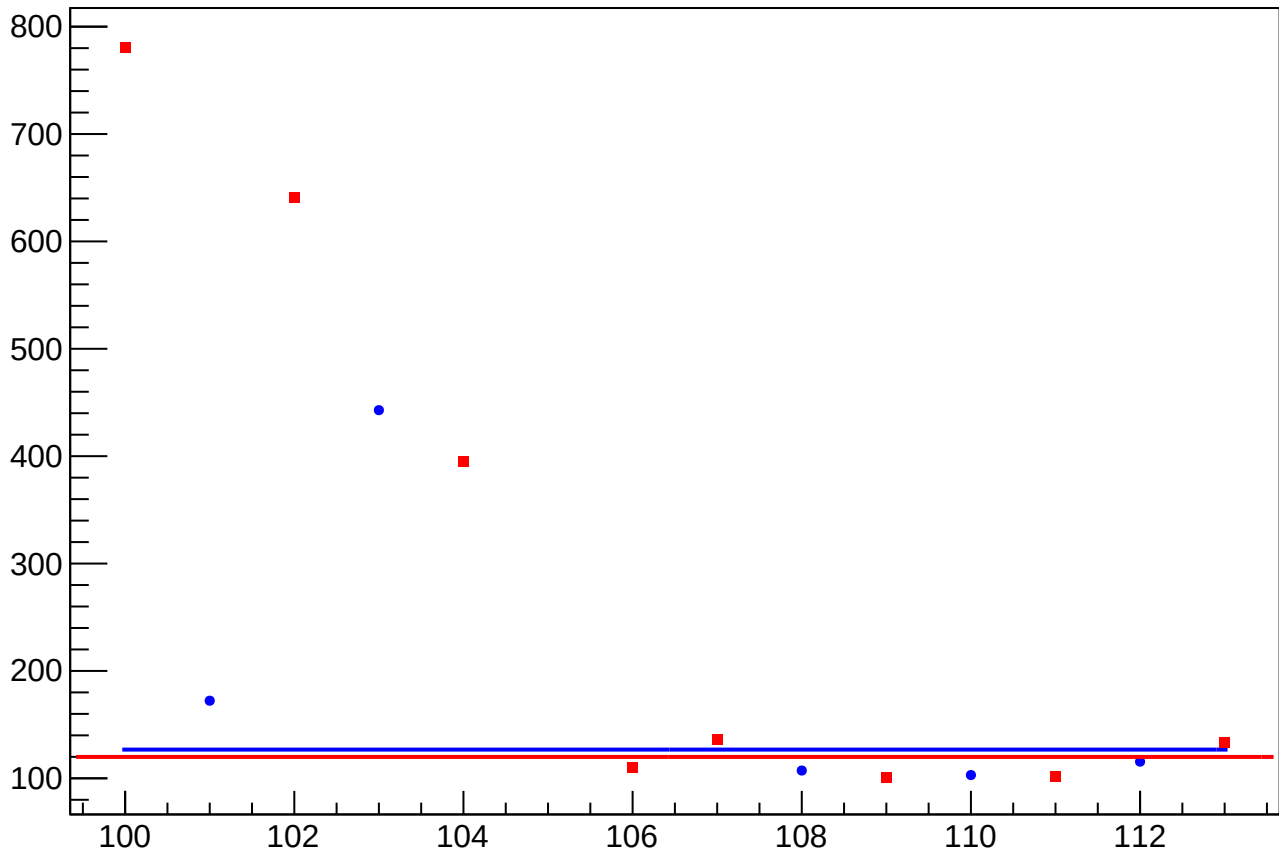
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.022 \pm 0.060$   $\chi^2/\text{NDF}$ : 14.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 126.750 $\pm$ 0.063  $\chi^2$ /NDF: 767184.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 119.918 $\pm$ 0.057  $\chi^2$ /NDF: 1117471.9/7

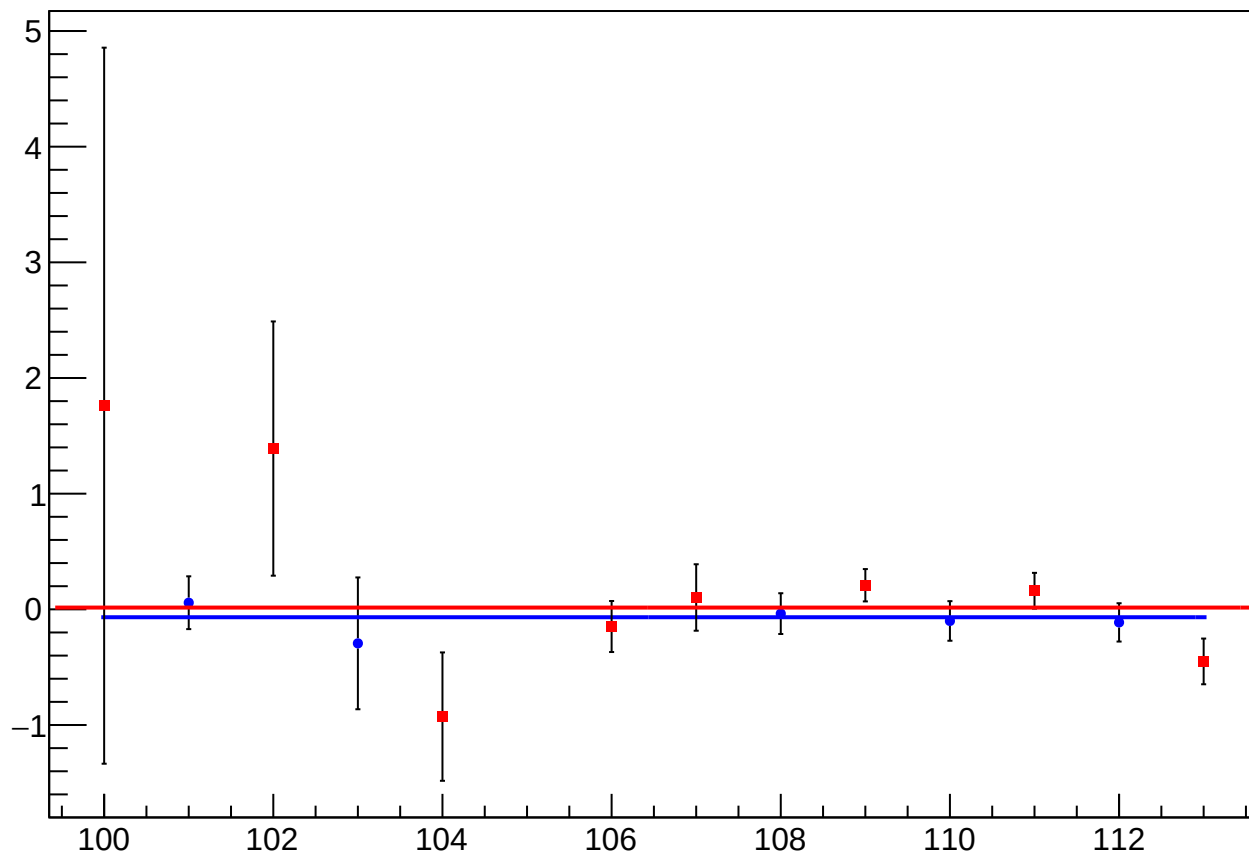
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 122.964 $\pm$ 0.042  $\chi^2$ /NDF: 1891127.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.068 $\pm$ 0.089  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.015 $\pm$ 0.080  $\chi^2$ /NDF: 13.8/7

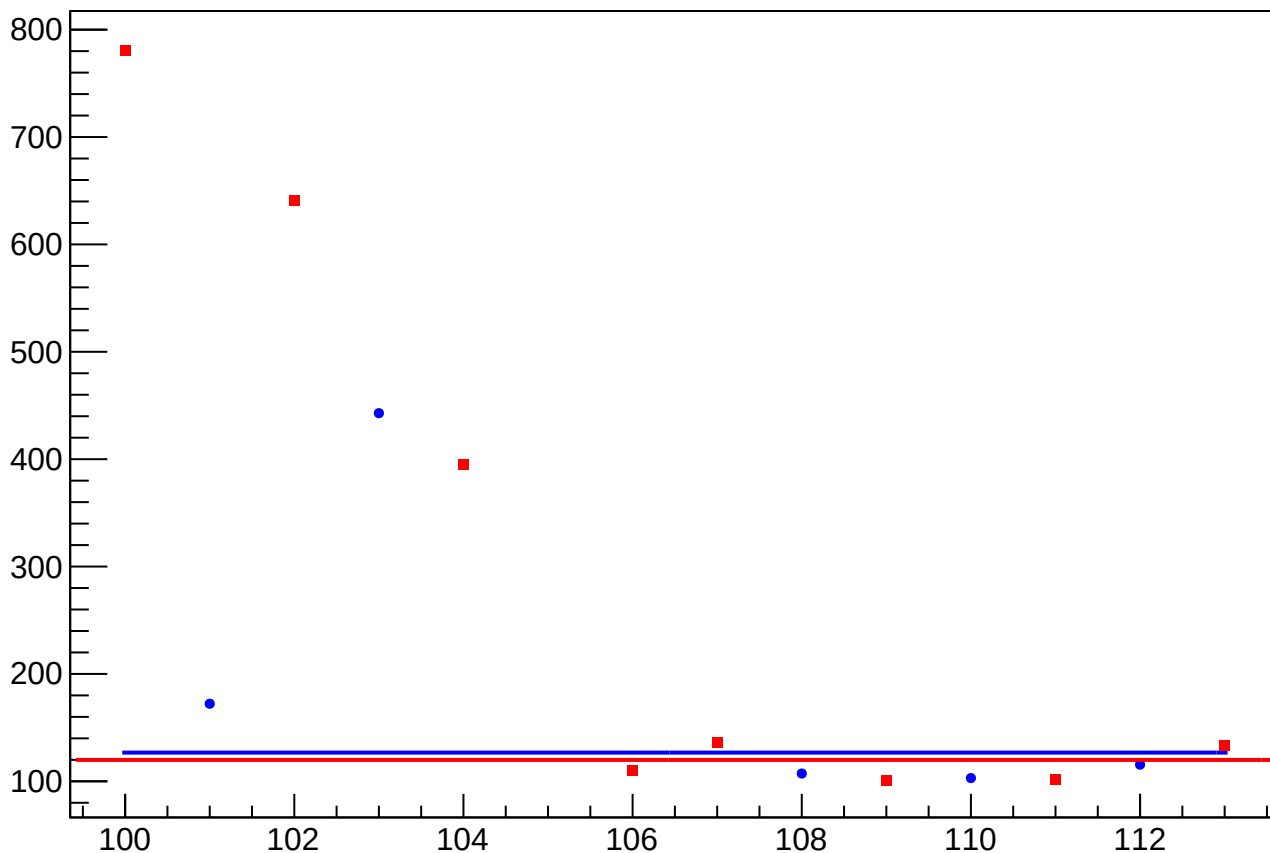
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.022 $\pm$ 0.060  $\chi^2$ /NDF: 14.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 126.750+/-0.063  $\chi^2/\text{NDF}$ : 767184.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 119.918+/-0.057  $\chi^2/\text{NDF}$ : 1117471.9/7

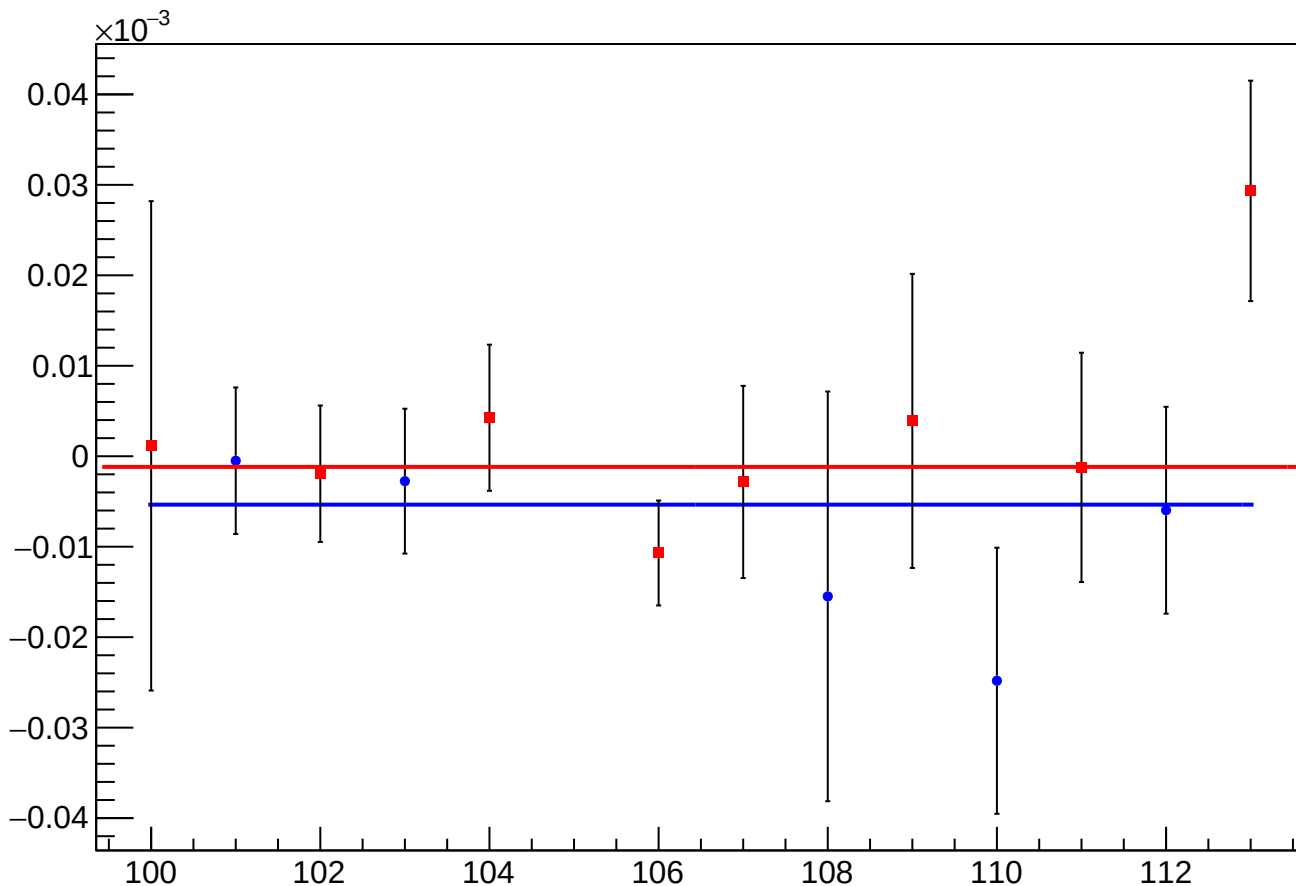
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 122.964+/-0.042  $\chi^2/\text{NDF}$ : 1891127.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 2.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 9.6/7

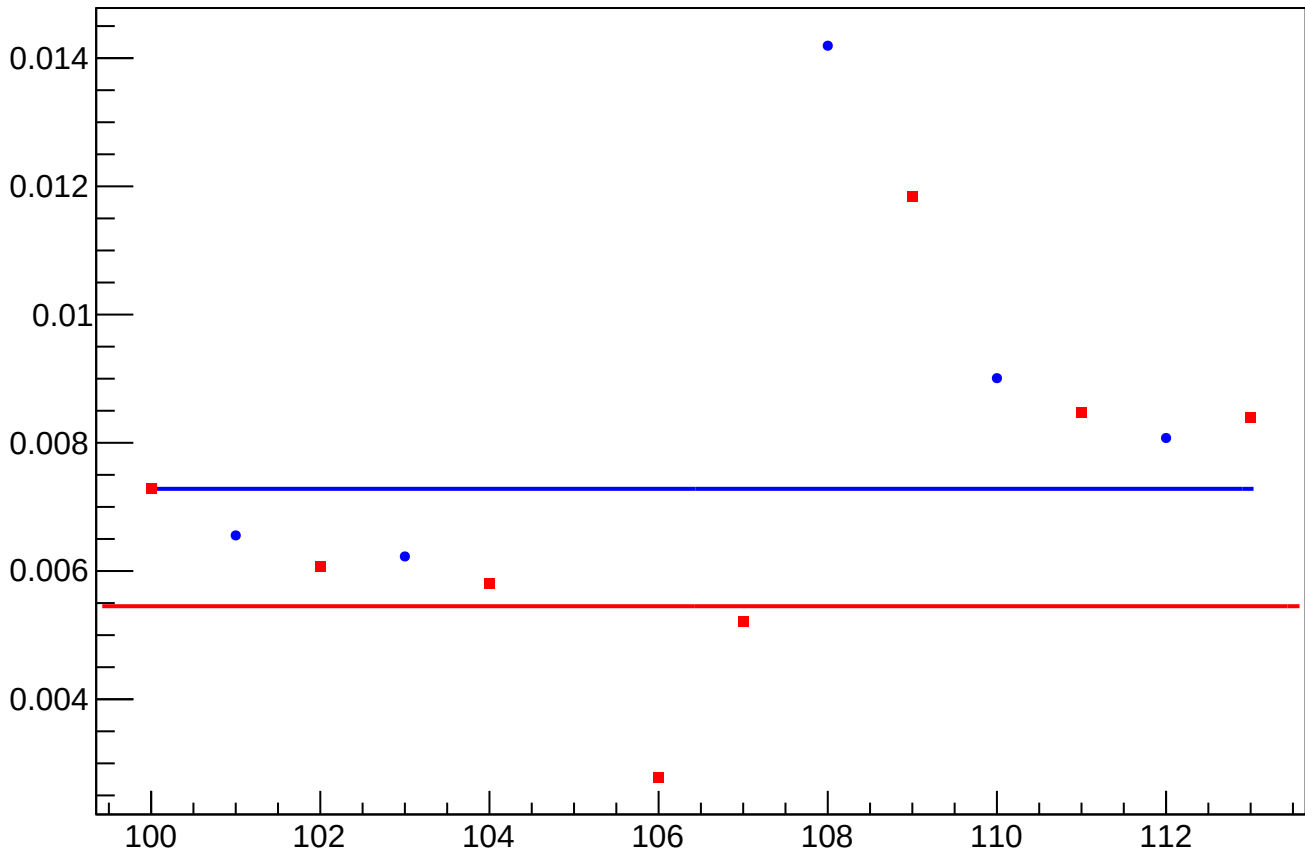
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 274273.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 991386.5/7

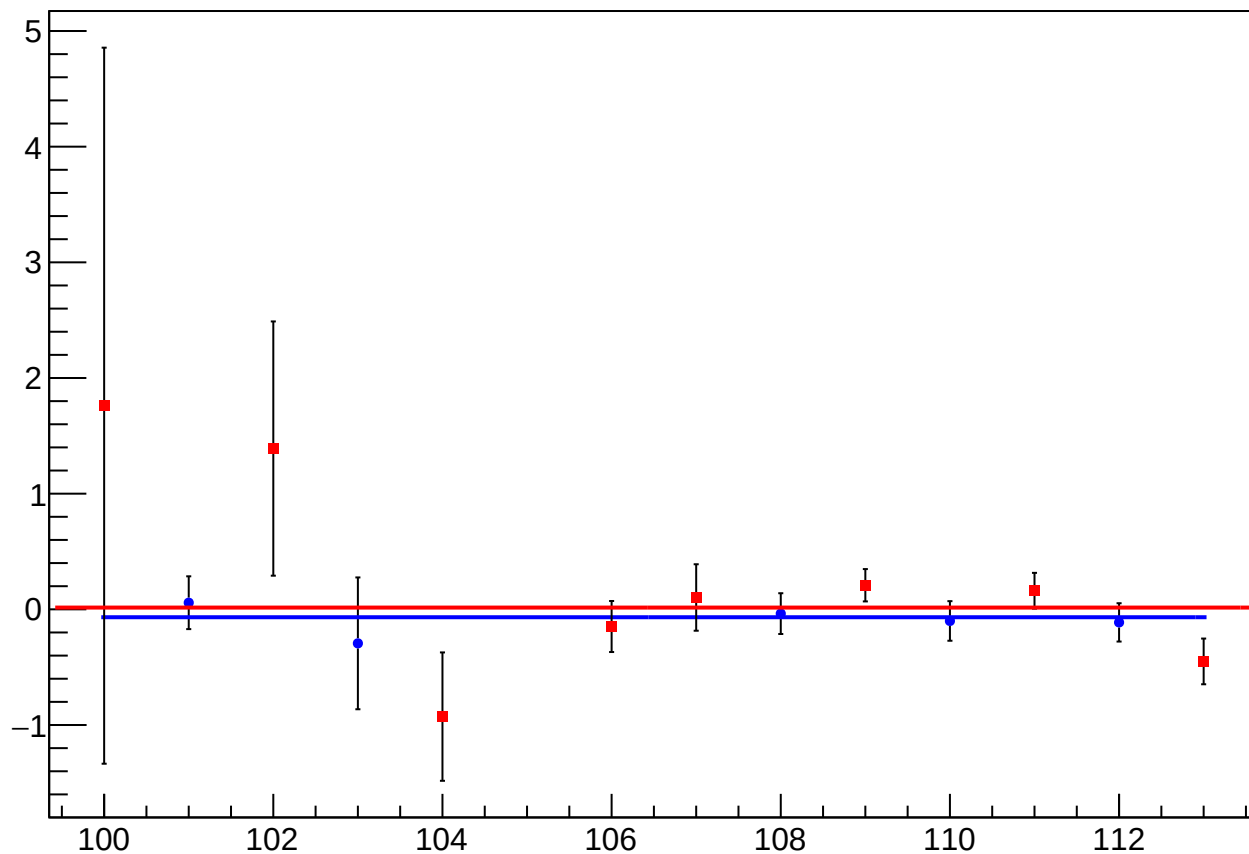
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1466751.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.068 $\pm$ 0.089  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.015 $\pm$ 0.080  $\chi^2$ /NDF: 13.8/7

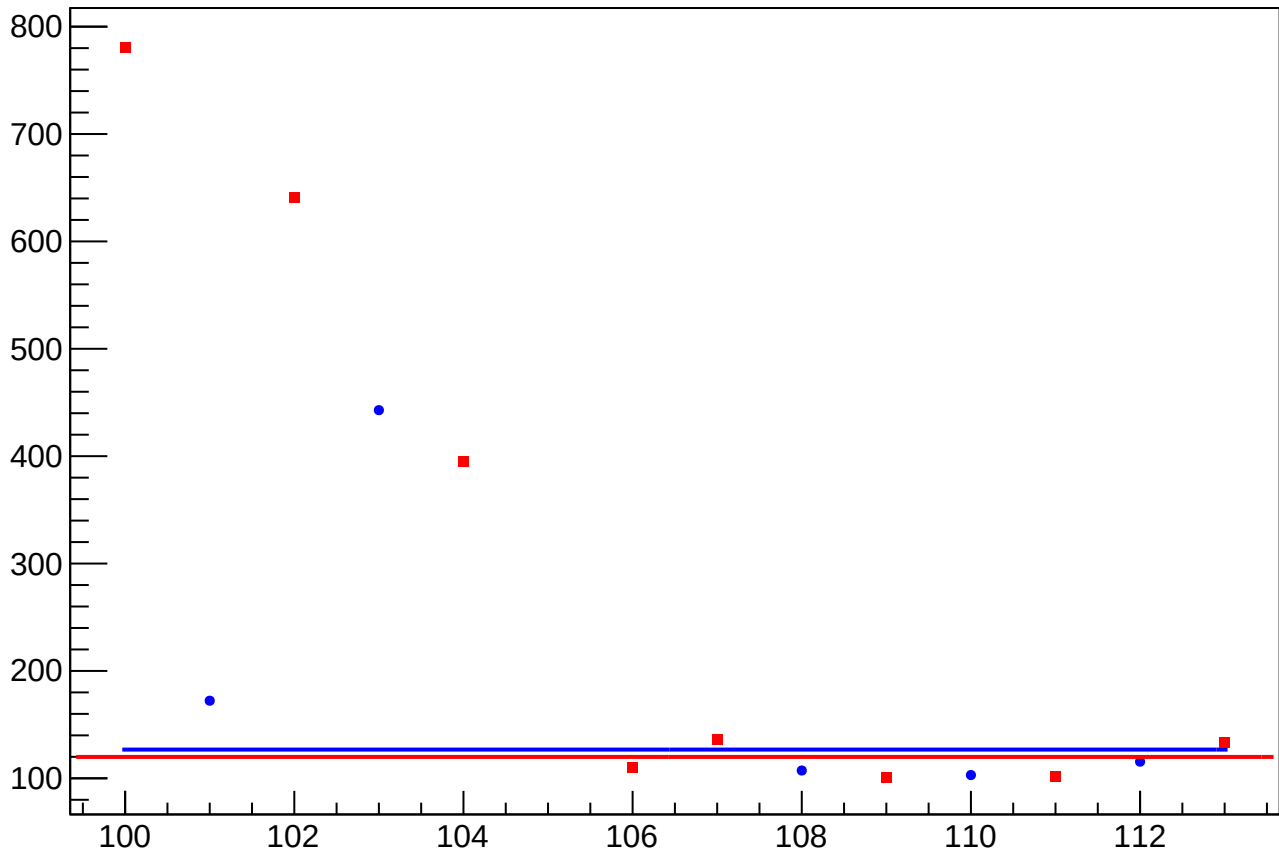
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.022 $\pm$ 0.060  $\chi^2$ /NDF: 14.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 126.754 $\pm$ 0.063  $\chi^2$ /NDF: 767135.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 119.920 $\pm$ 0.057  $\chi^2$ /NDF: 1117444.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

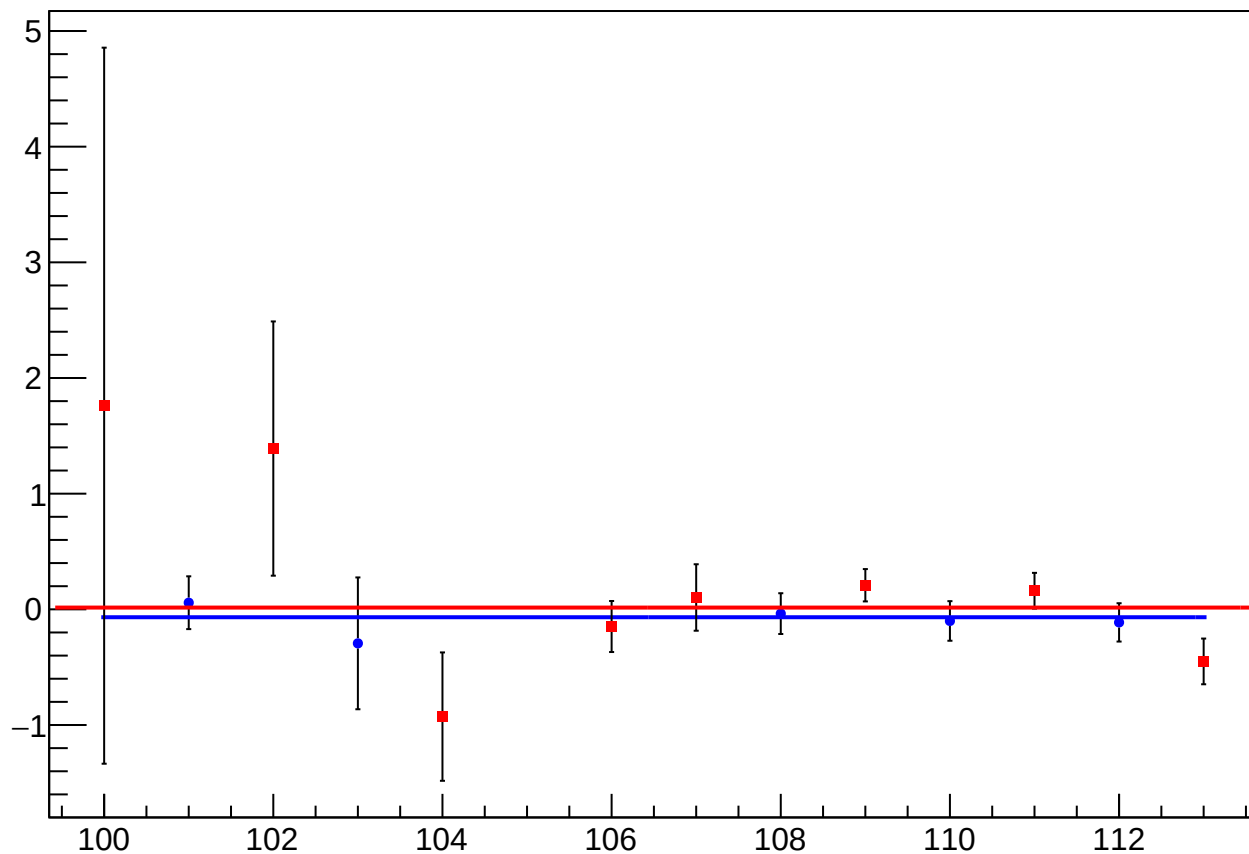
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 122.967 $\pm$ 0.042  $\chi^2$ /NDF: 1891054.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_atr1l2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.068 \pm 0.089$   $\chi^2/\text{NDF}$ : 0.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.015 \pm 0.080$   $\chi^2/\text{NDF}$ : 13.8/7

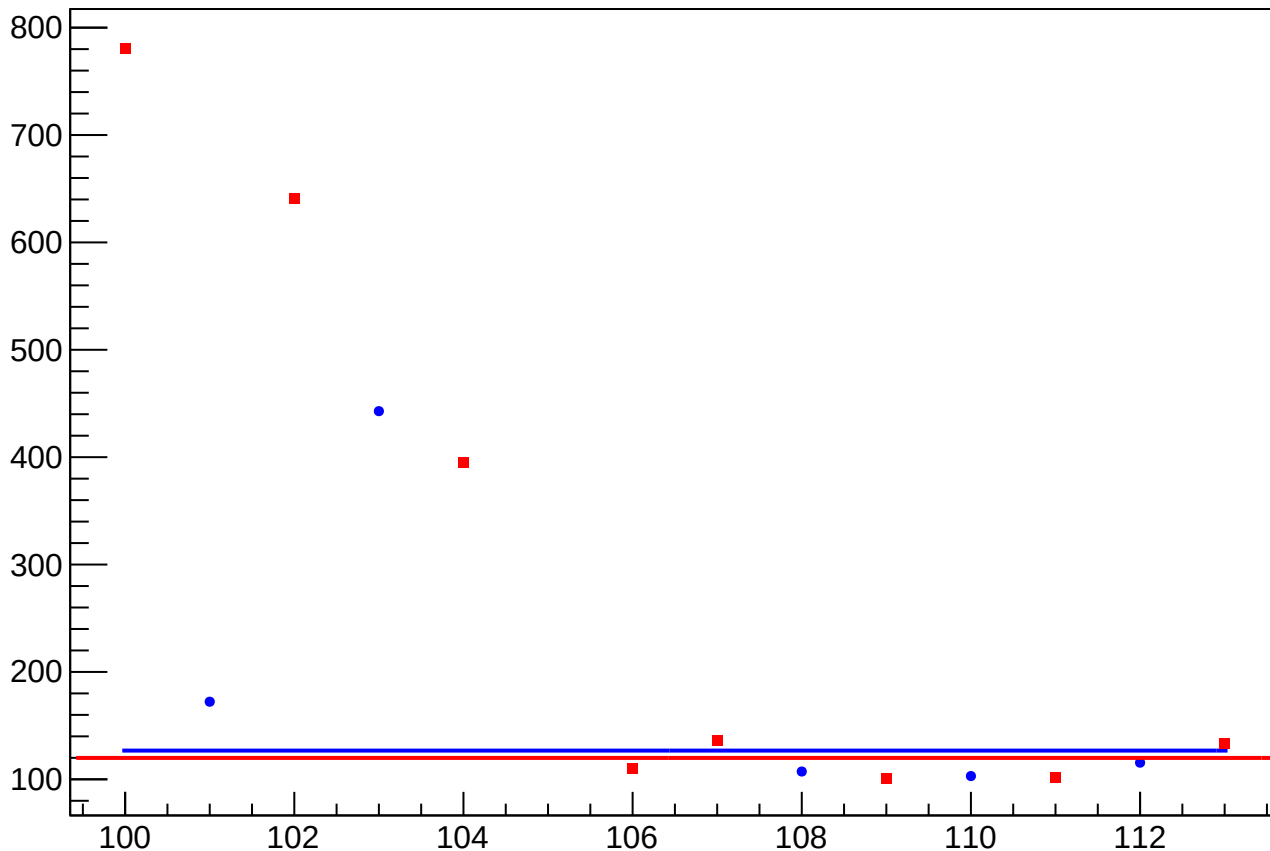
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.022 \pm 0.060$   $\chi^2/\text{NDF}$ : 14.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 126.754 $\pm$ 0.063  $\chi^2$ /NDF: 767135.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 119.920 $\pm$ 0.057  $\chi^2$ /NDF: 1117444.2/7

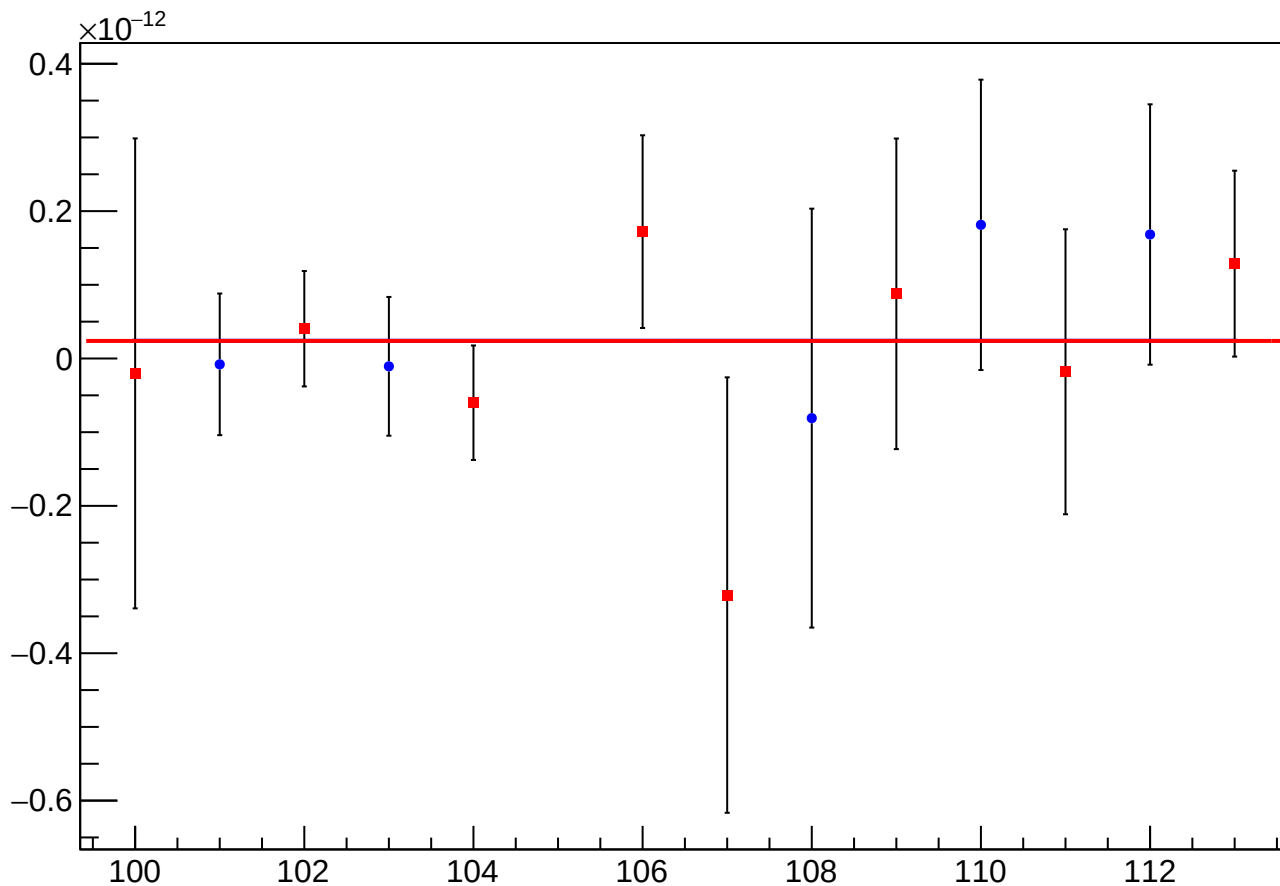
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 122.967 $\pm$ 0.042  $\chi^2$ /NDF: 1891054.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.7/7

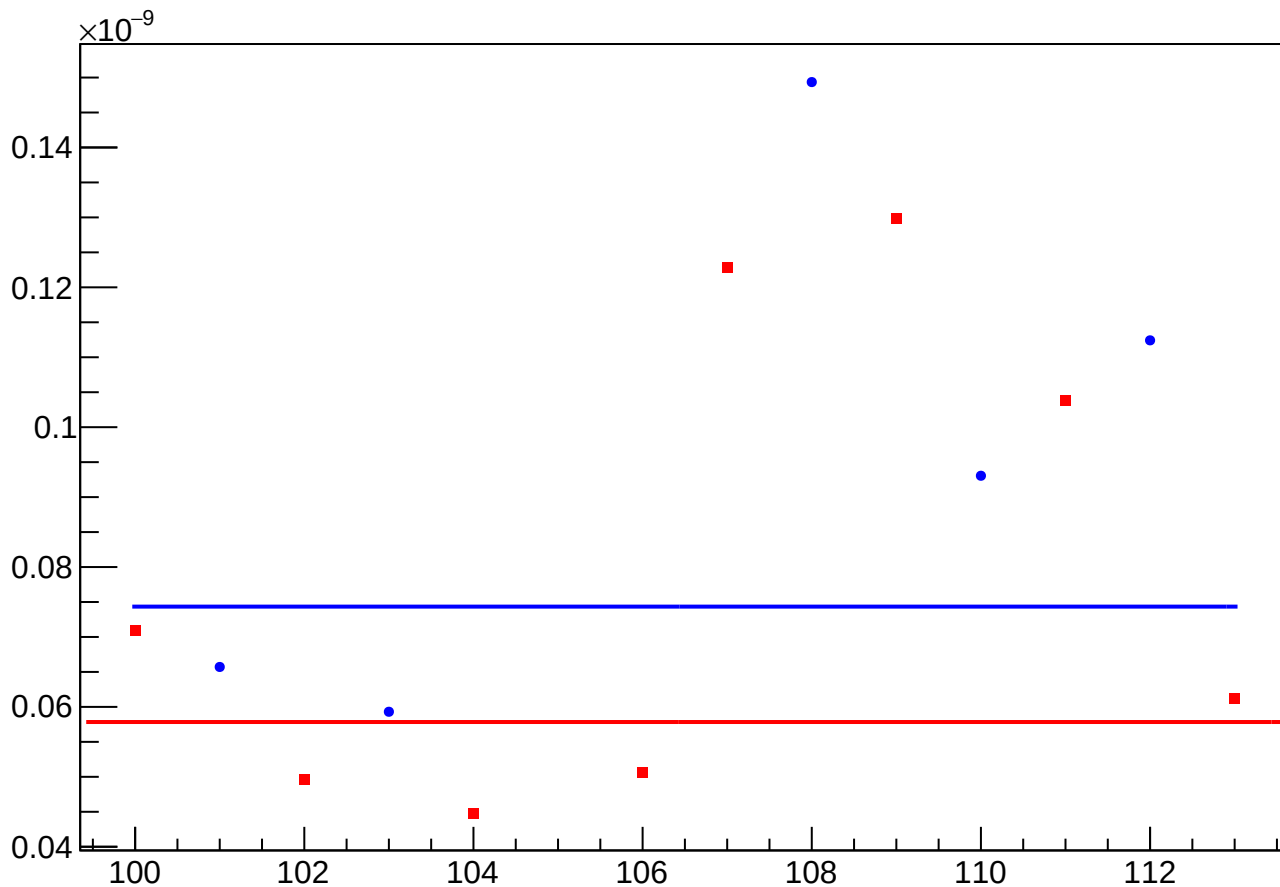
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 317315.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 533583.1/7

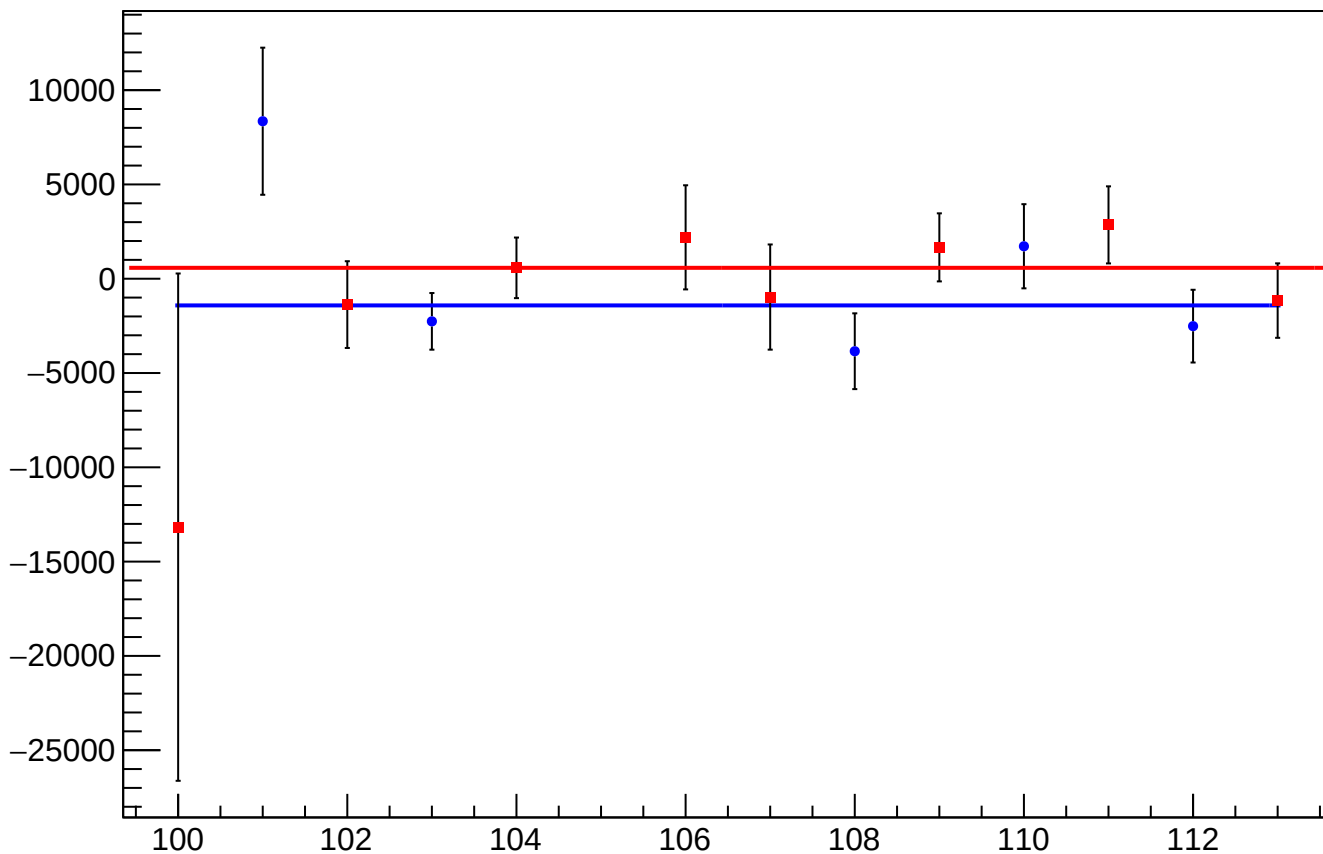
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 952630.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -1415.283+/-902.919  $\chi^2/\text{NDF}$ : 10.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 578.285+/-779.701  $\chi^2/\text{NDF}$ : 4.8/7

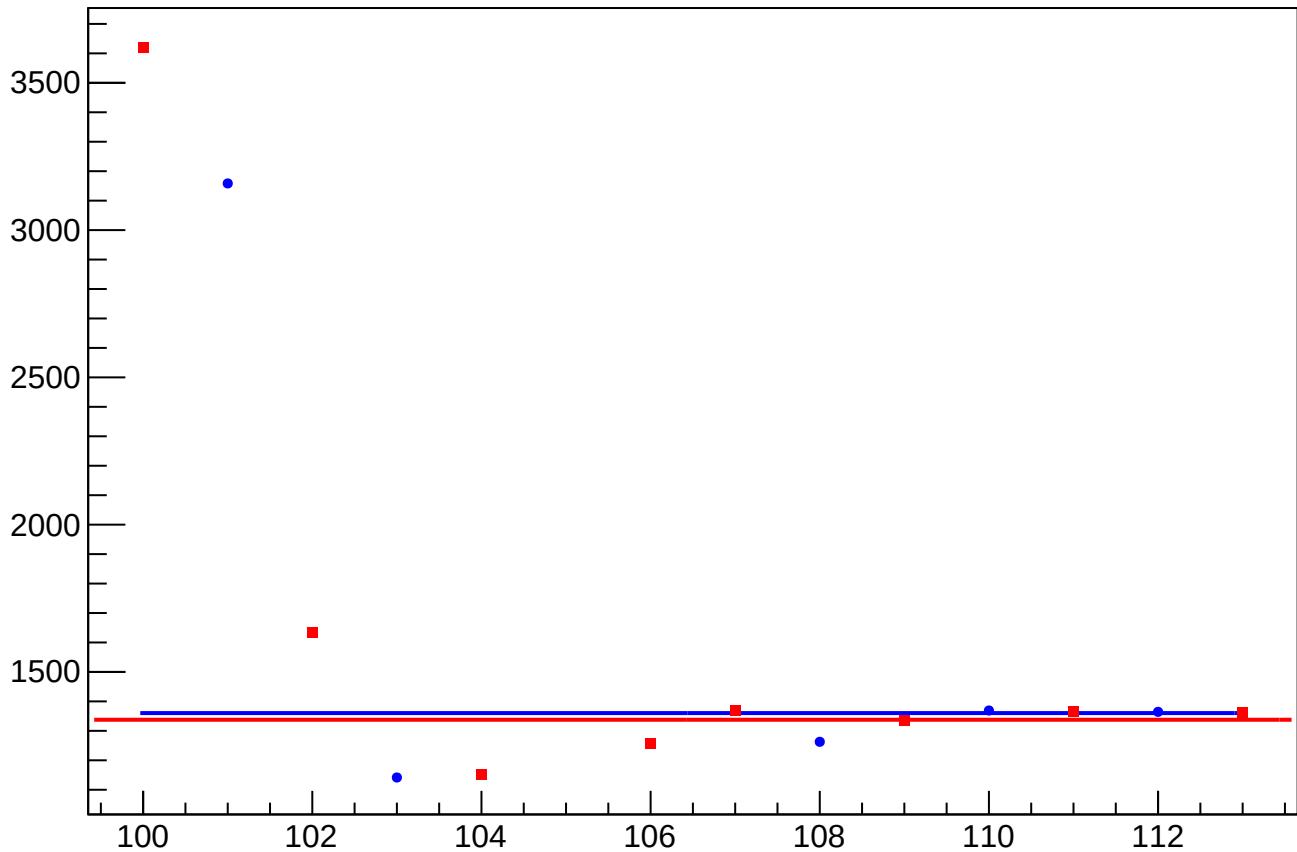
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -273.289+/-590.126  $\chi^2/\text{NDF}$ : 17.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1360.317 $\pm$ 0.638  $\chi^2$ /NDF: 472253.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1337.665 $\pm$ 0.548  $\chi^2$ /NDF: 120806.1/7

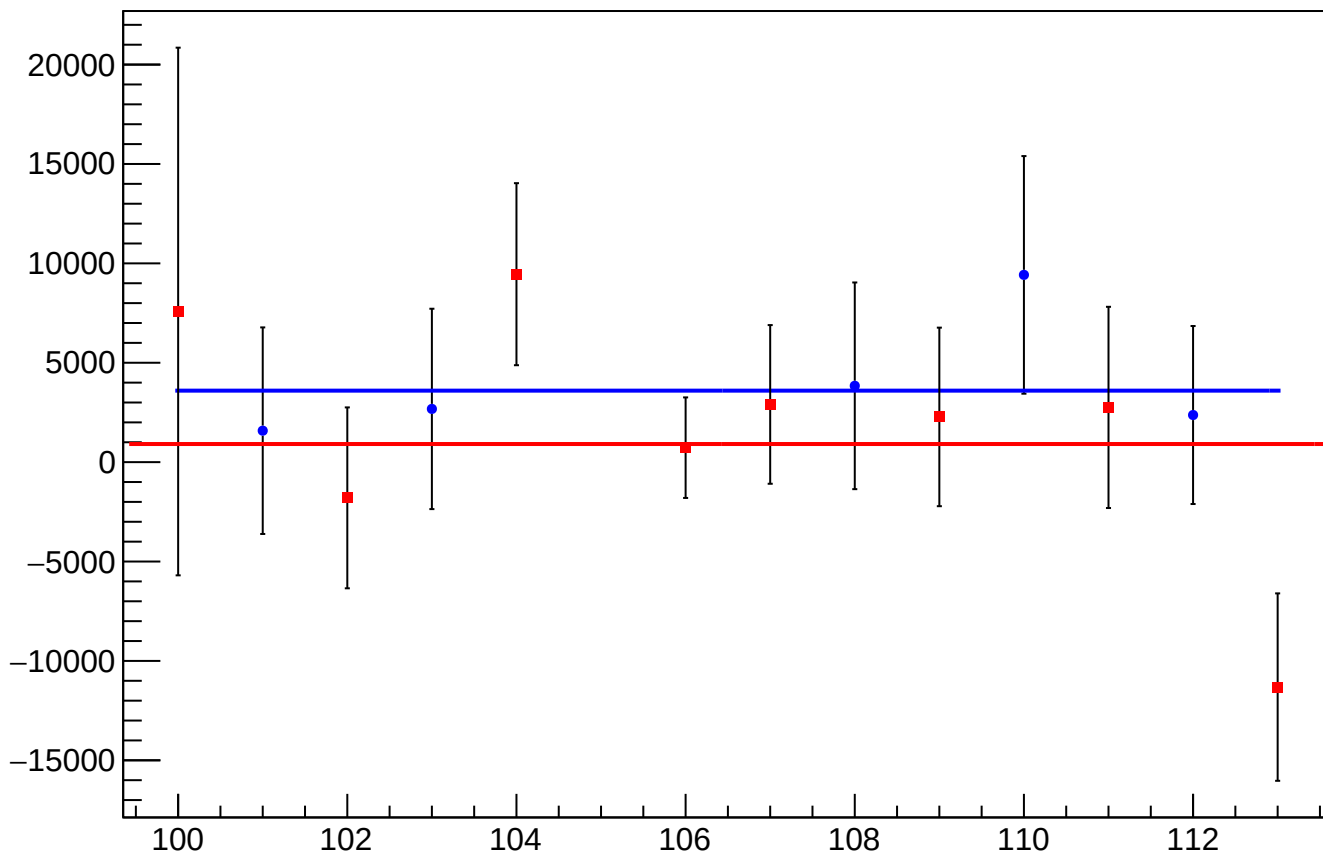
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1347.267 $\pm$ 0.416  $\chi^2$ /NDF: 593784.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_reg\_correction\_mean vs Slug



Right In: 3597.067 $\pm$ 2286.429  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 911.596 $\pm$ 1483.479  $\chi^2$ /NDF: 11.3/7

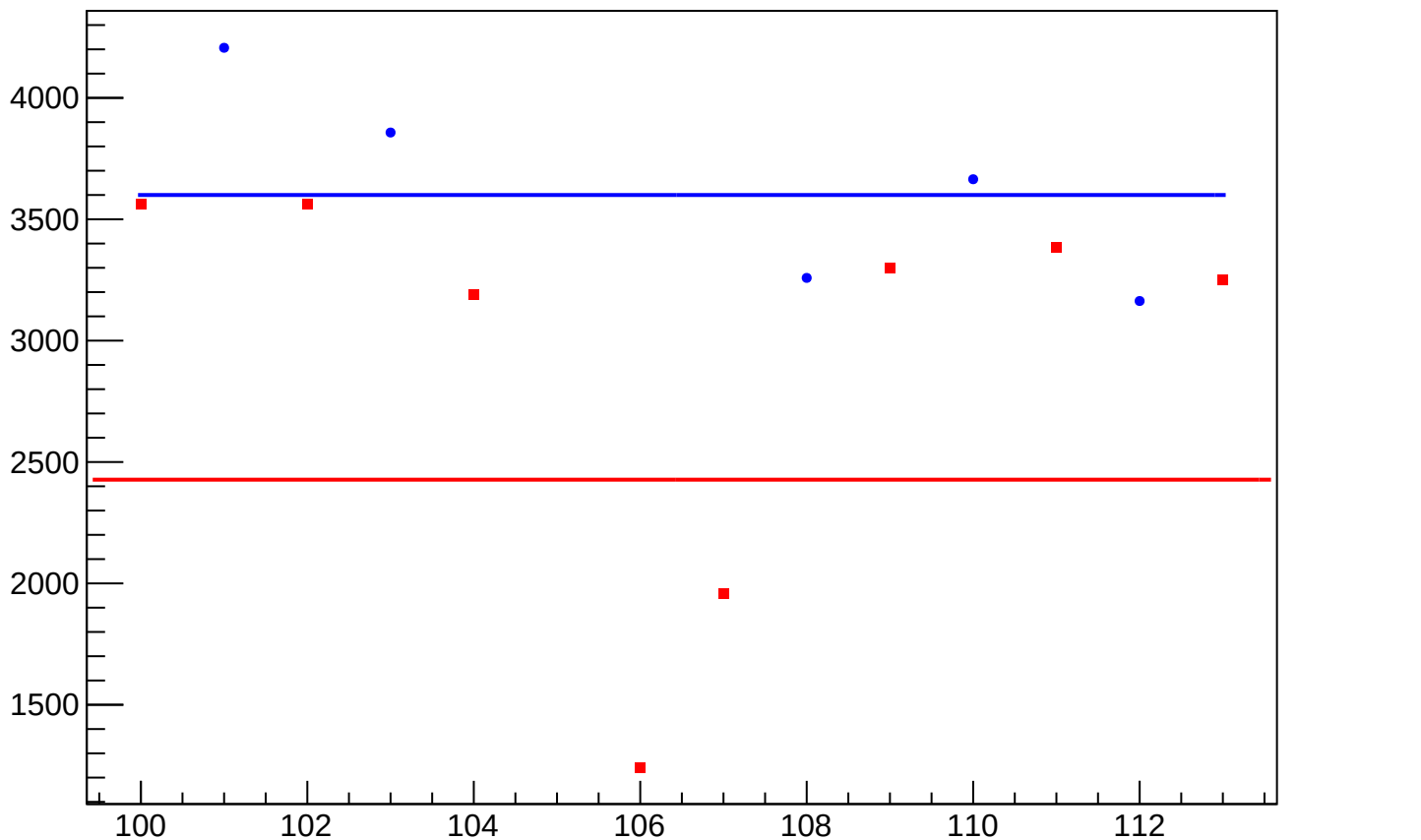
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1707.176 $\pm$ 1244.484  $\chi^2$ /NDF: 13.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_reg\_correction\_rms vs Slug



Right In: 3599.934+/-1.617  $\chi^2/\text{NDF}$ : 60351.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2427.268+/-1.049  $\chi^2/\text{NDF}$ : 869254.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

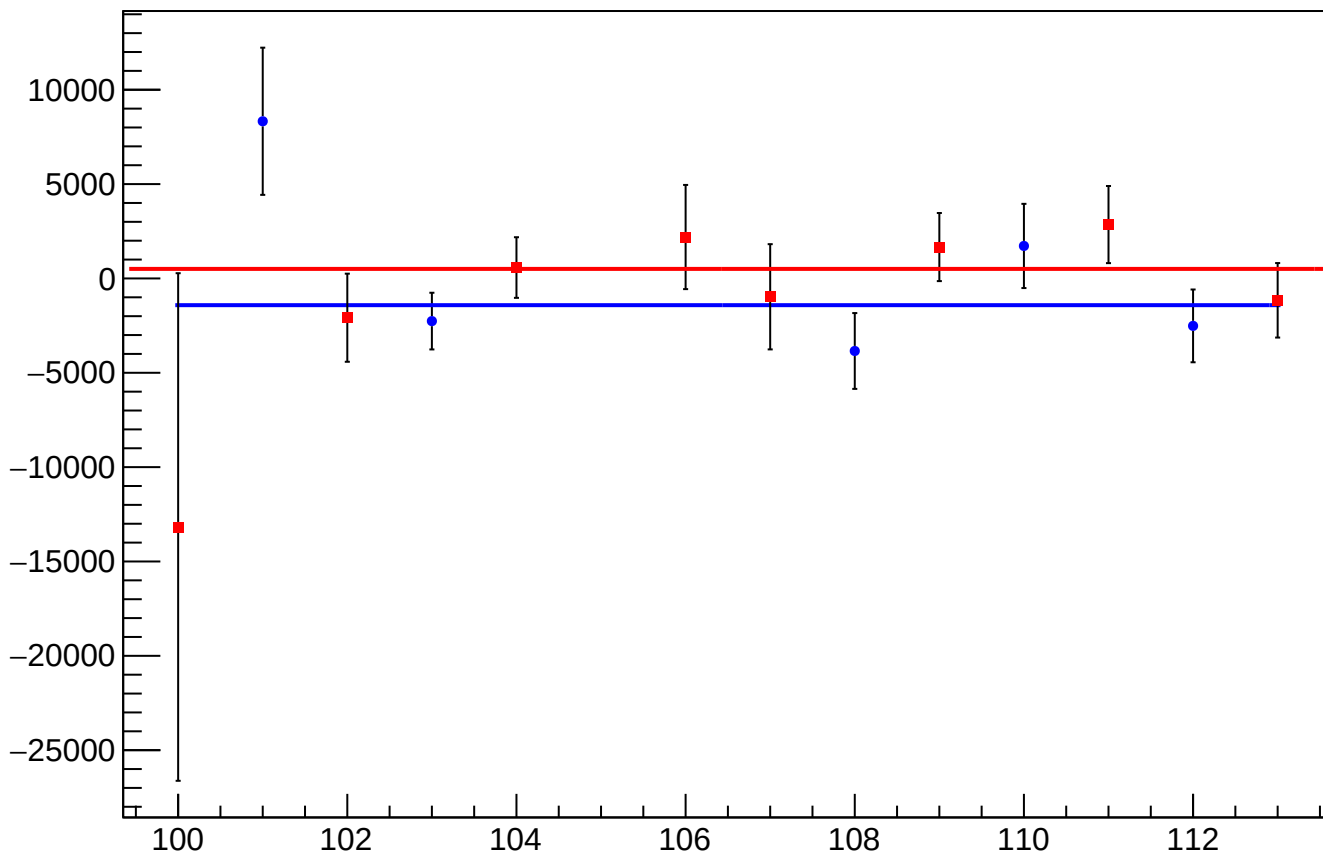
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2774.675+/-0.880  $\chi^2/\text{NDF}$ : 1299842.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -1416.367 $\pm$ 902.919  $\chi^2$ /NDF: 10.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 505.605 $\pm$ 781.025  $\chi^2$ /NDF: 5.4/7

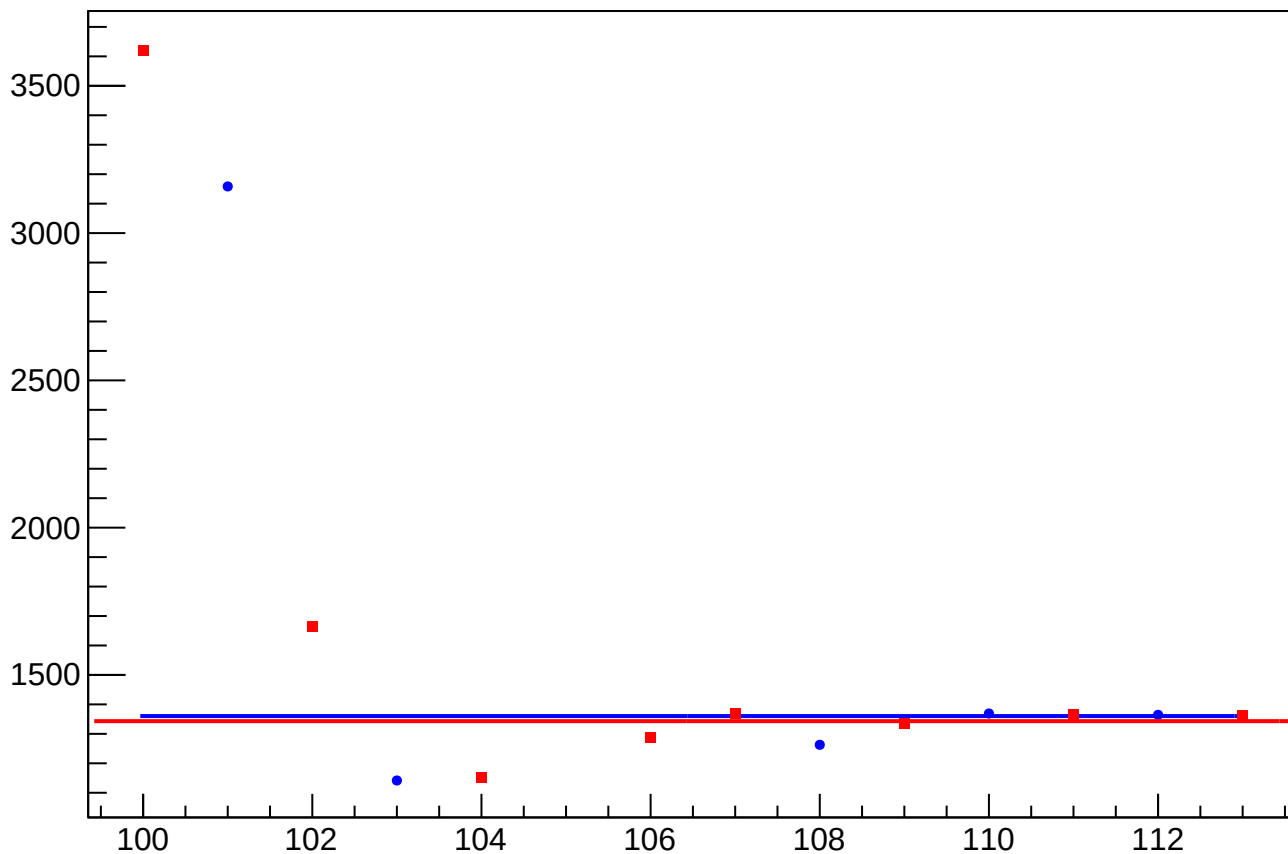
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -316.983 $\pm$ 590.699  $\chi^2$ /NDF: 18.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1360.316 $\pm$ 0.638  $\chi^2$ /NDF: 472255.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1343.114 $\pm$ 0.550  $\chi^2$ /NDF: 125904.6/7

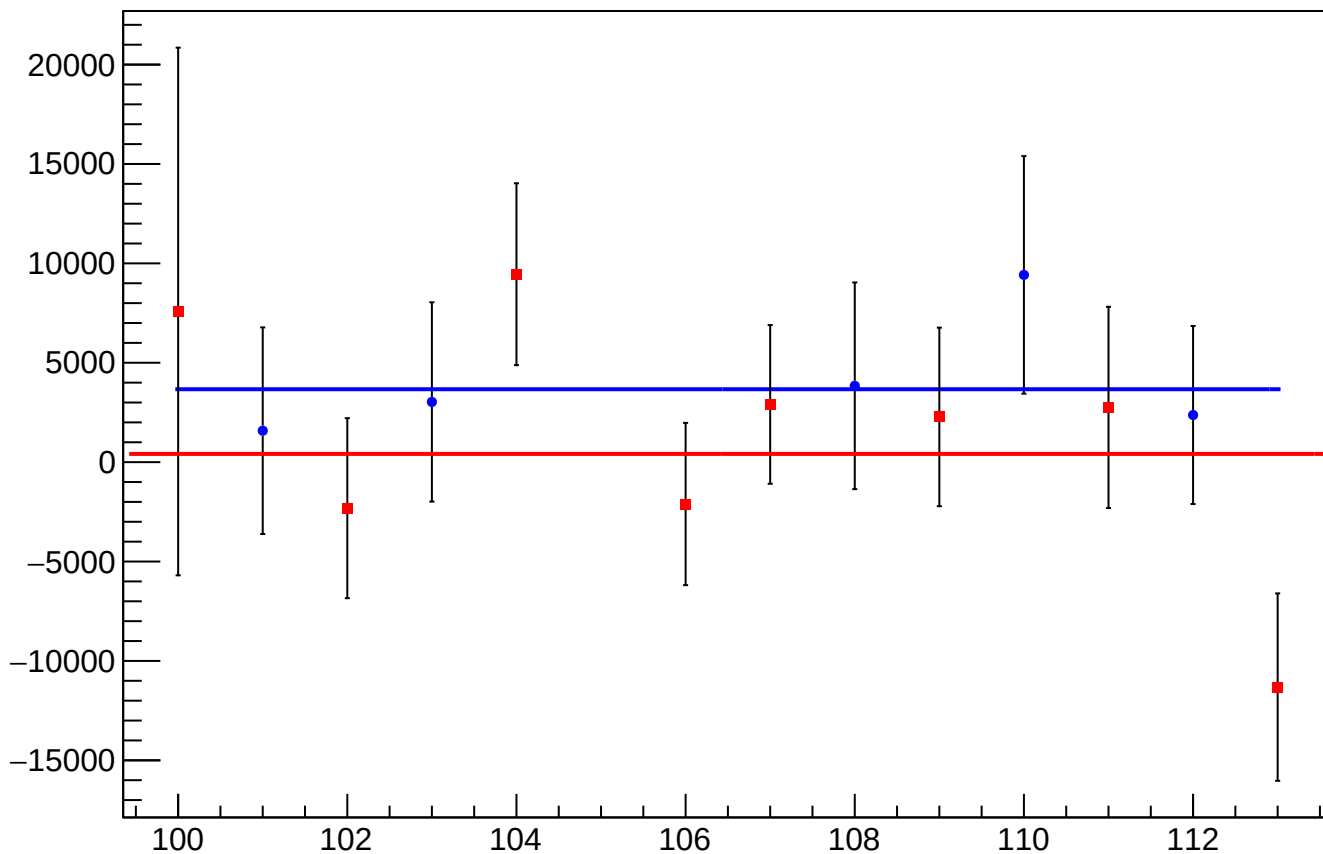
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1350.437 $\pm$ 0.417  $\chi^2$ /NDF: 598576.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_cor\_correction\_mean vs Slug



Right In: 3668.066+/-2284.100  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 415.290+/-1669.939  $\chi^2/\text{NDF}$ : 11.9/7

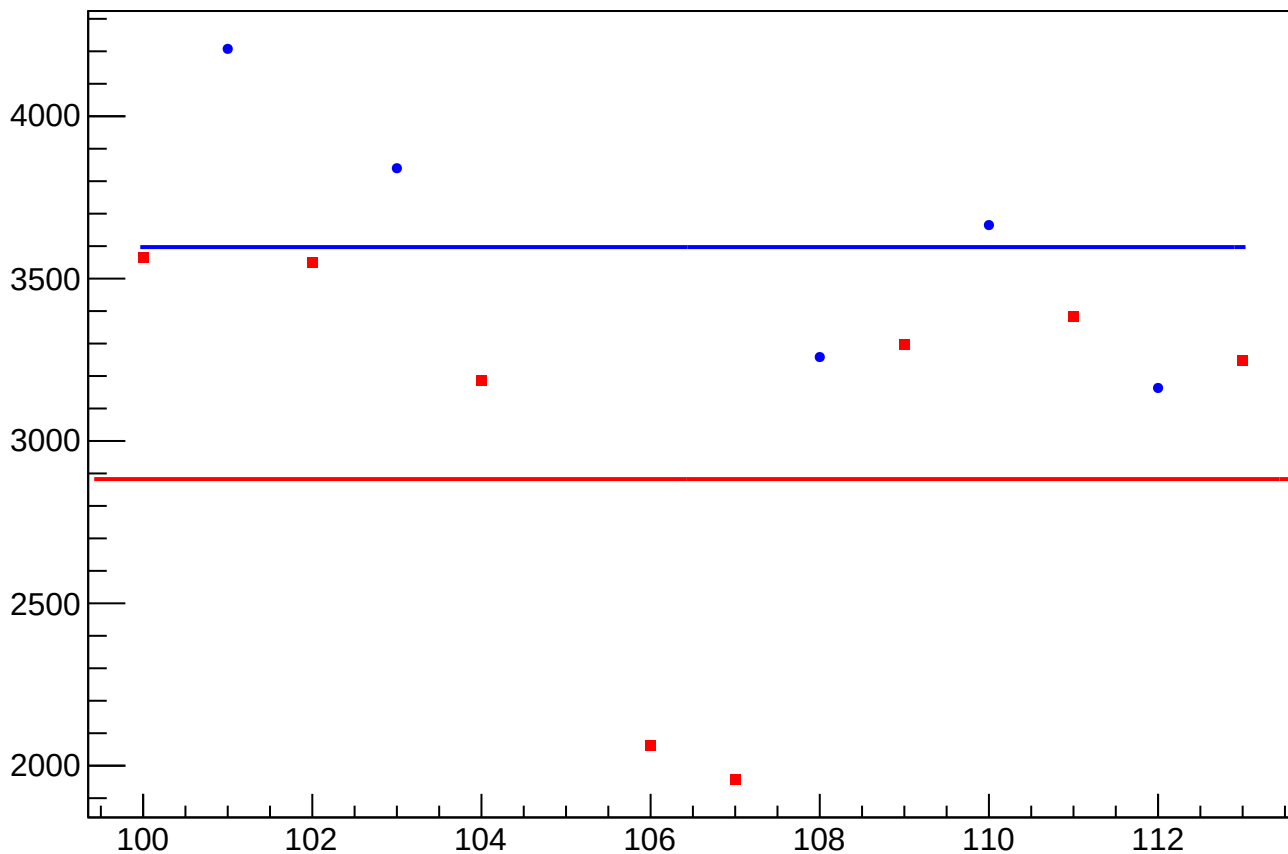
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1548.343+/-1348.072  $\chi^2/\text{NDF}$ : 14.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_cor\_correction\_rms vs Slug



Right In: 3597.041+/-1.615  $\chi^2/\text{NDF}$ : 59803.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2882.604+/-1.181  $\chi^2/\text{NDF}$ : 294878.4/7

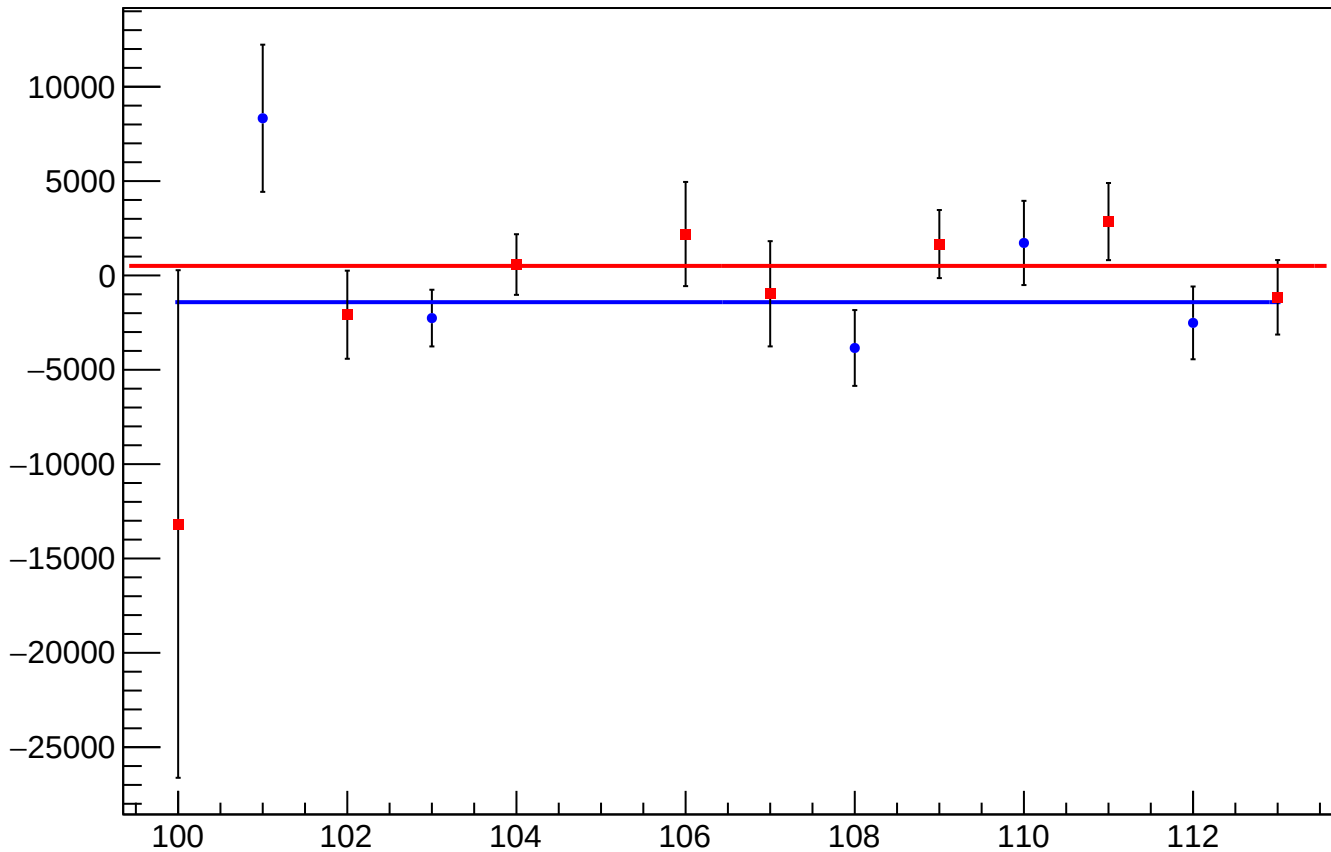
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3131.467+/-0.953  $\chi^2/\text{NDF}$ : 482194.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -1416.367 $\pm$ 902.919  $\chi^2$ /NDF: 10.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 505.605 $\pm$ 781.025  $\chi^2$ /NDF: 5.4/7

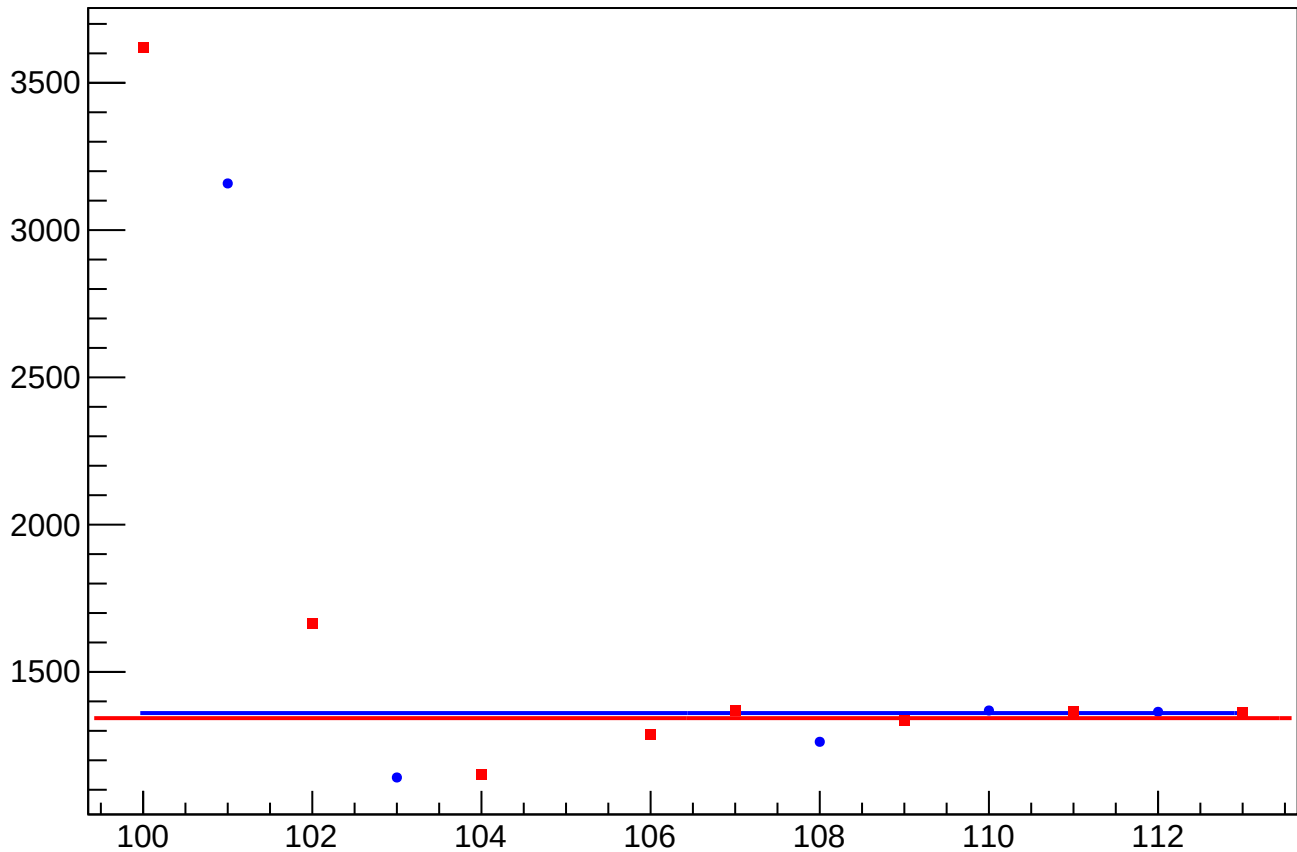
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -316.983 $\pm$ 590.699  $\chi^2$ /NDF: 18.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1360.316+/-0.638  $\chi^2/\text{NDF}$ : 472255.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1343.114+/-0.550  $\chi^2/\text{NDF}$ : 125904.6/7

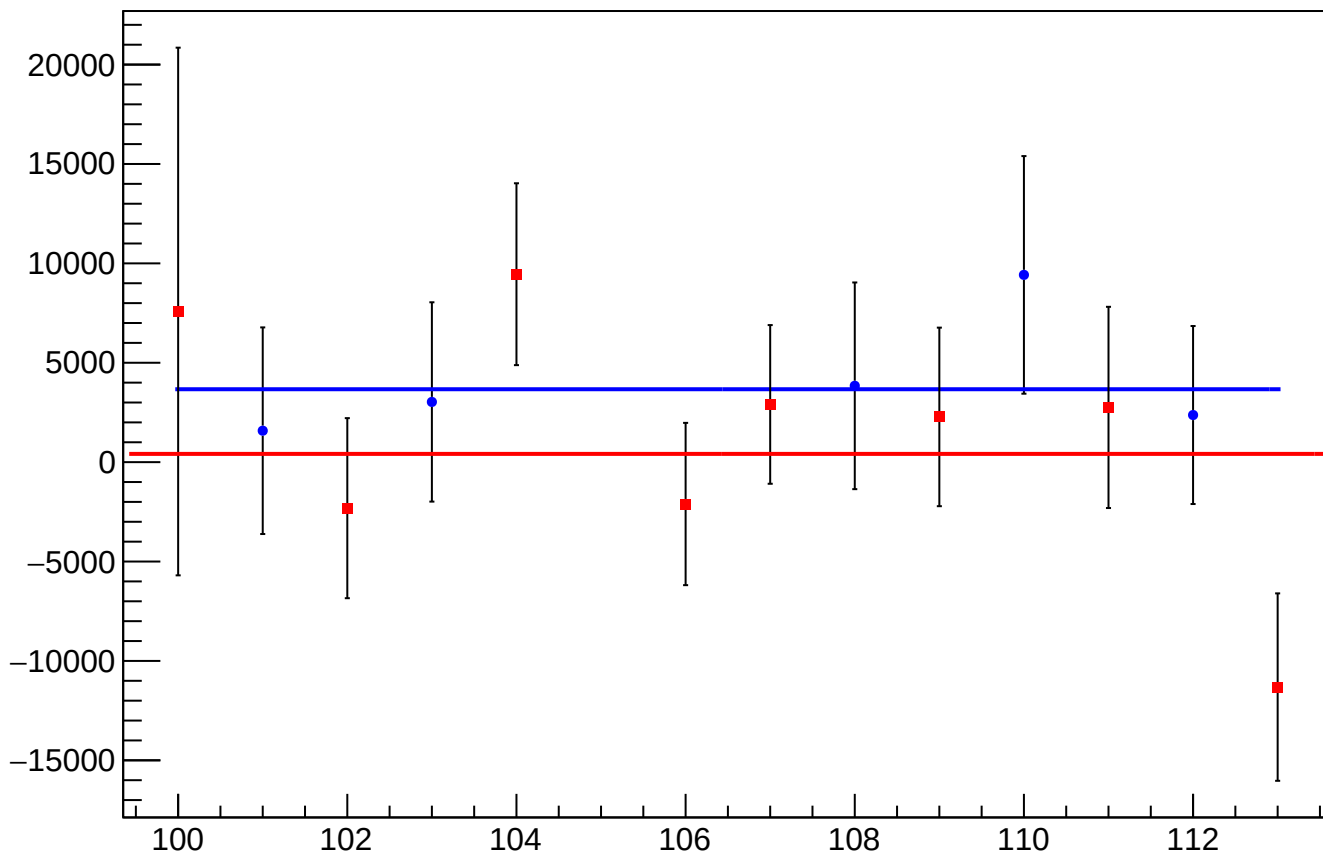
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1350.437+/-0.417  $\chi^2/\text{NDF}$ : 598576.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 3668.066 $\pm$ 2284.100  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 415.290 $\pm$ 1669.939  $\chi^2$ /NDF: 11.9/7

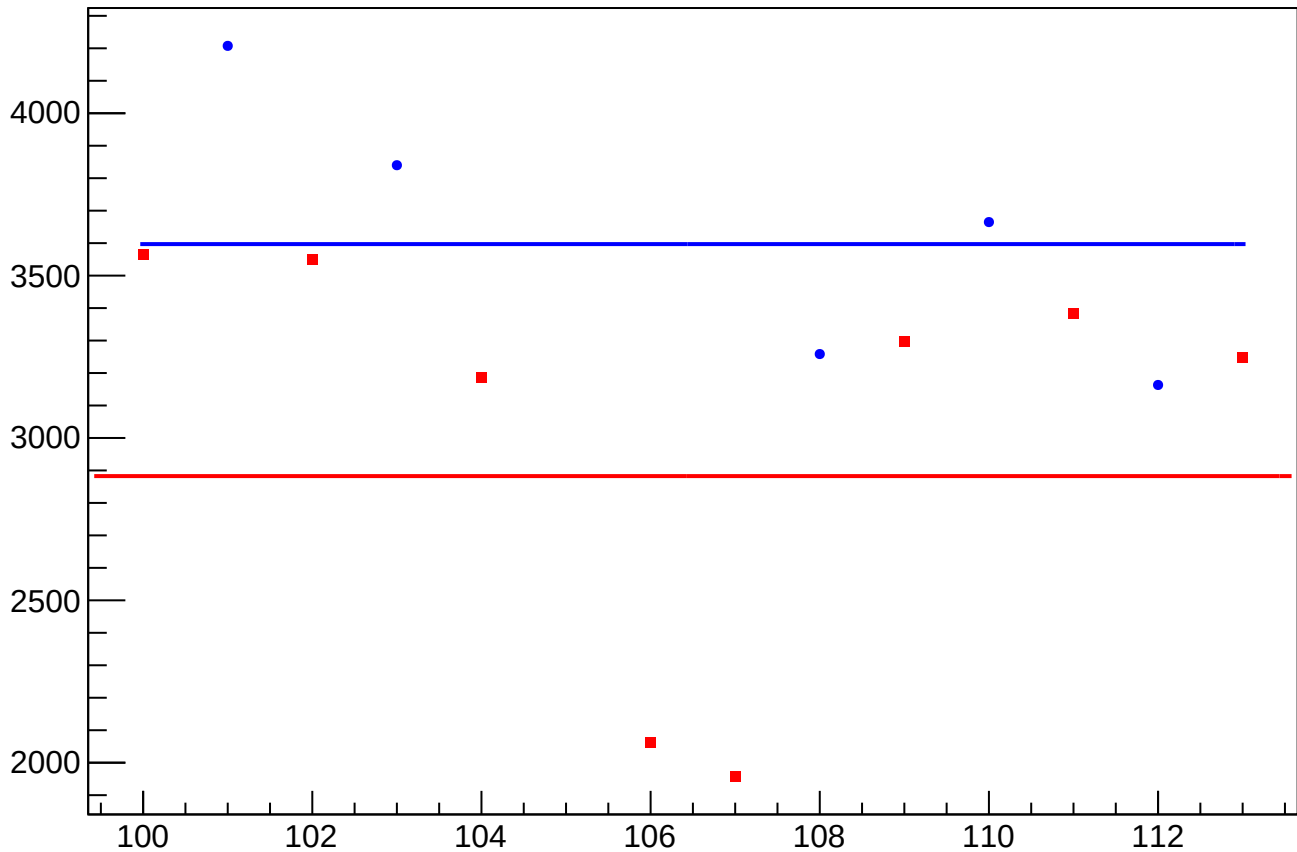
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1548.343 $\pm$ 1348.072  $\chi^2$ /NDF: 14.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 3597.041 $\pm$ 1.615  $\chi^2$ /NDF: 59803.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2882.604 $\pm$ 1.181  $\chi^2$ /NDF: 294878.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

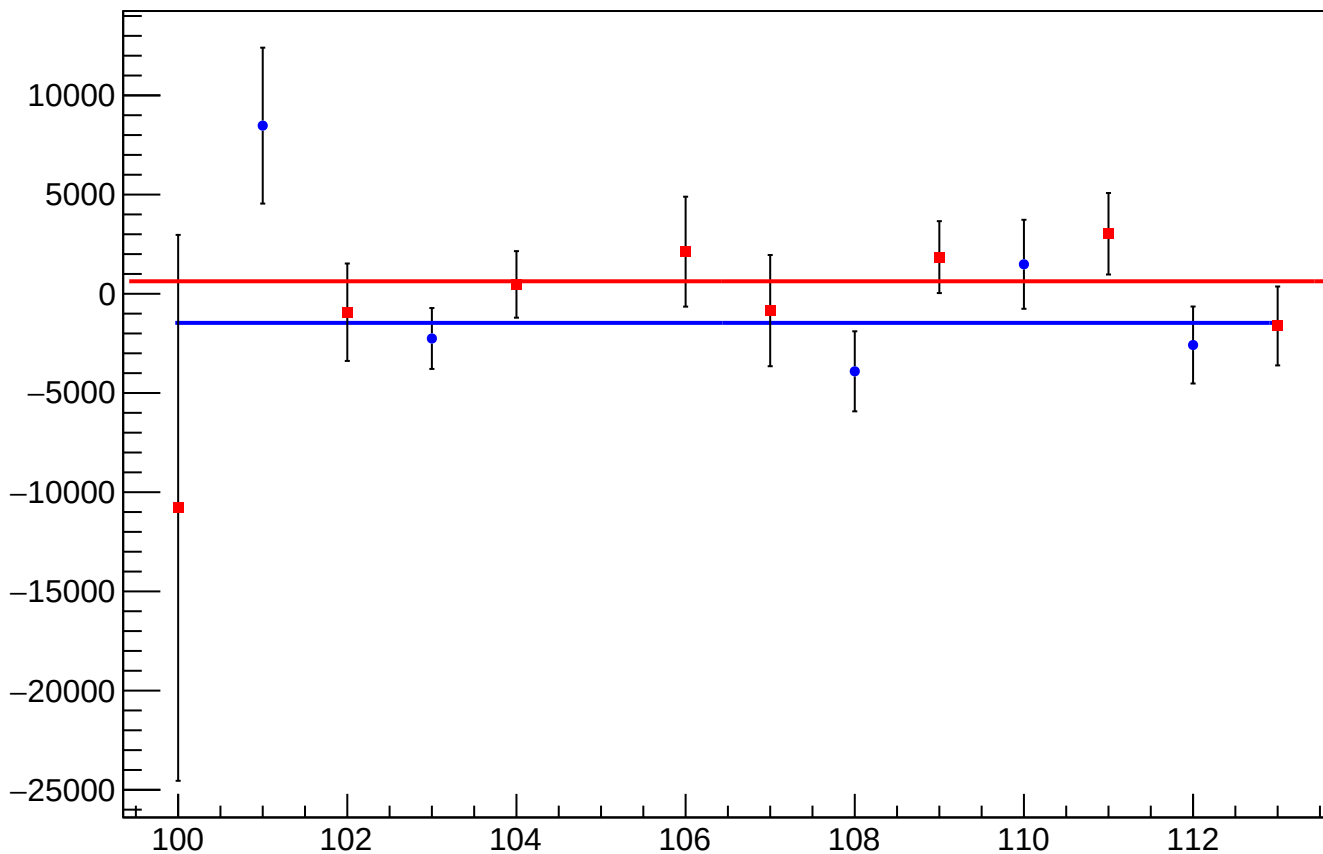
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3131.467 $\pm$ 0.953  $\chi^2$ /NDF: 482194.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -1466.101 $\pm$ 912.879  $\chi^2$ /NDF: 10.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 630.333 $\pm$ 795.893  $\chi^2$ /NDF: 4.8/7

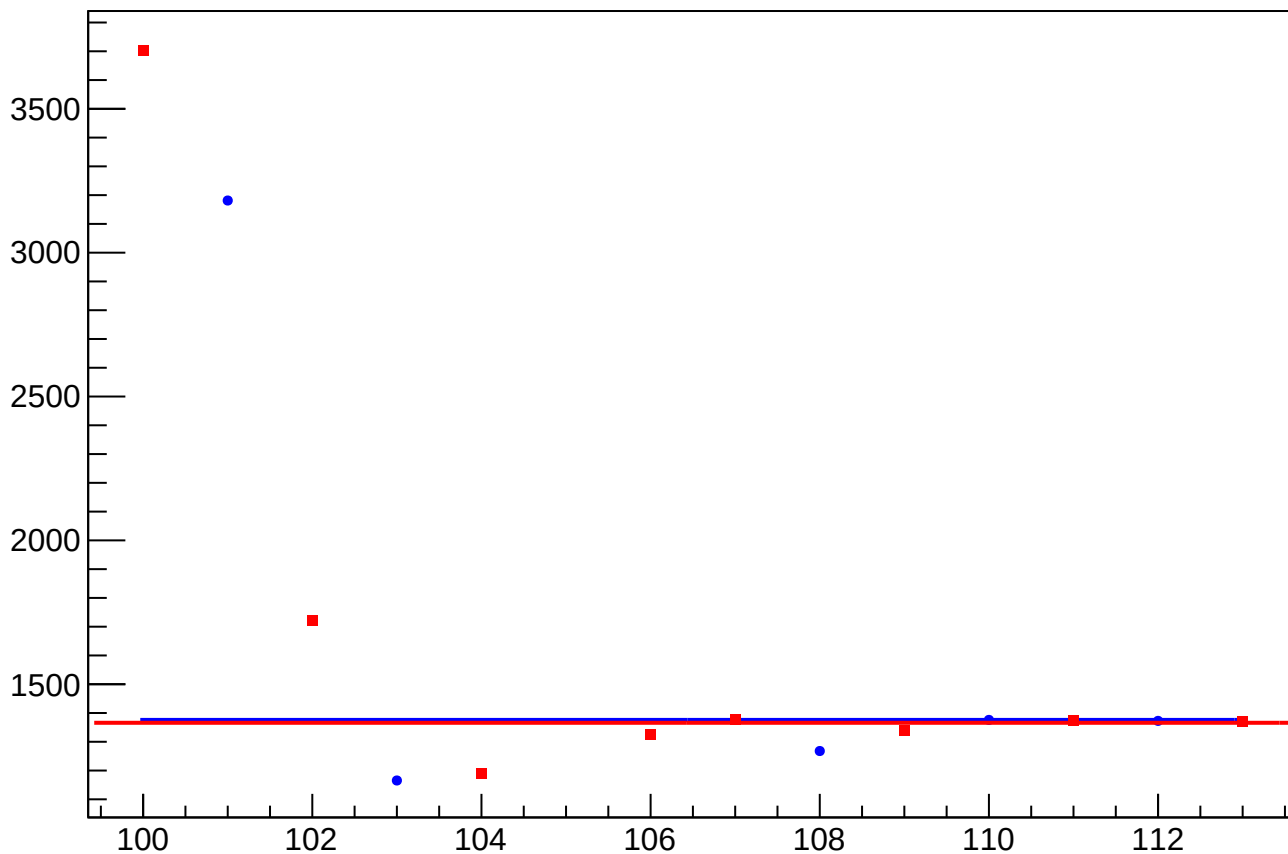
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -275.028 $\pm$ 599.906  $\chi^2$ /NDF: 18.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1375.999 $\pm$ 0.646  $\chi^2$ /NDF: 465624.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1365.991 $\pm$ 0.562  $\chi^2$ /NDF: 122488.1/7

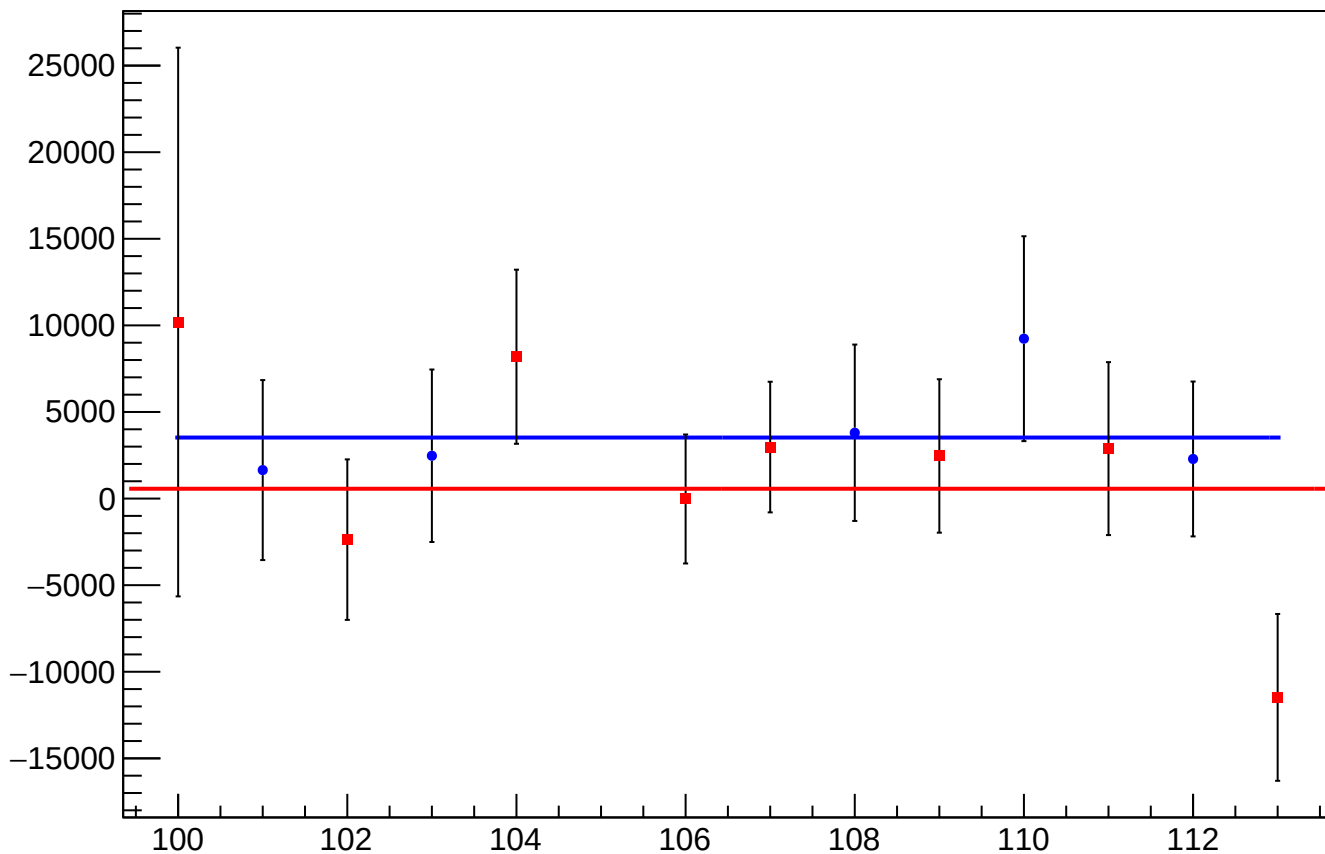
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1370.303 $\pm$ 0.424  $\chi^2$ /NDF: 588249.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_dit\_correction\_mean vs Slug



Right In: 3523.630+/-2267.241  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 567.301+/-1651.209  $\chi^2/\text{NDF}$ : 10.2/7

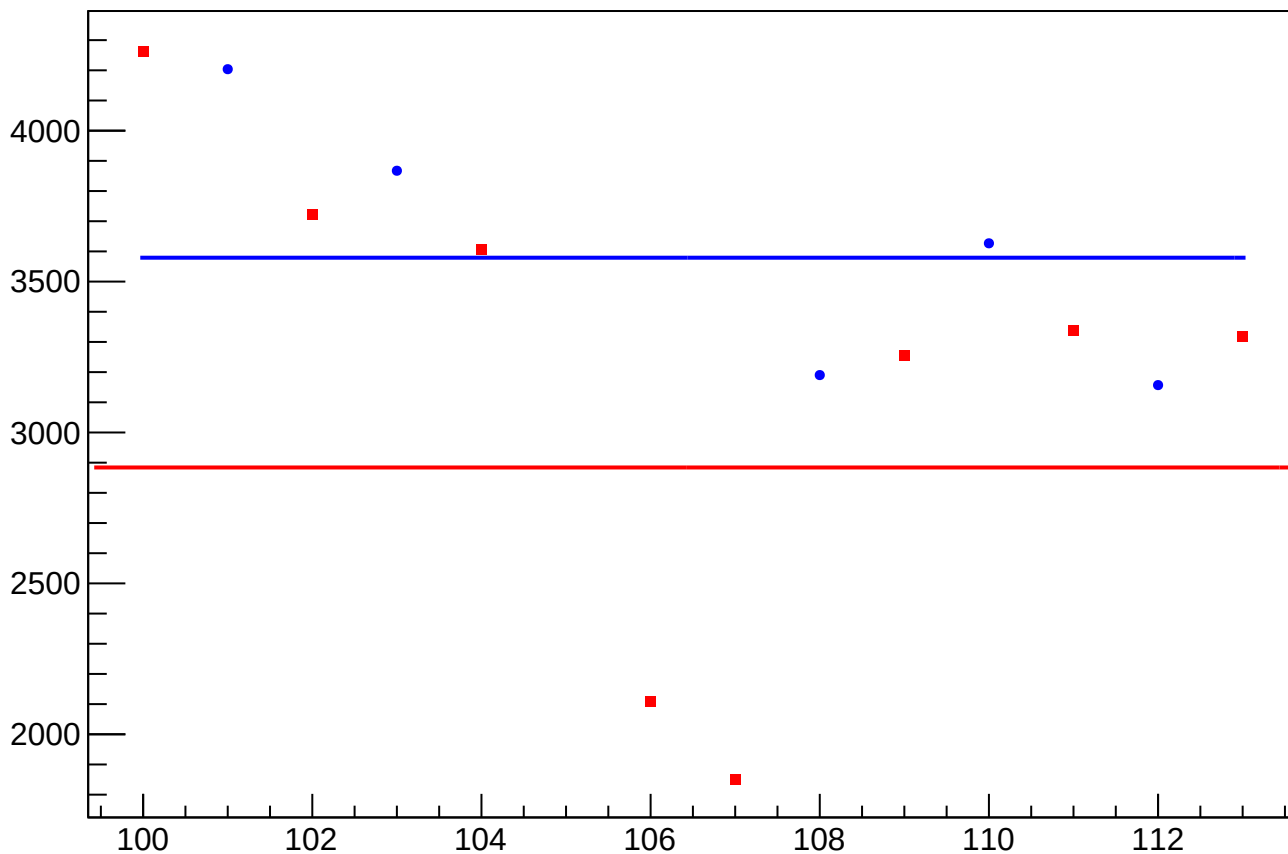
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1591.901+/-1334.746  $\chi^2/\text{NDF}$ : 12.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_dit\_correction\_rms vs Slug



Right In: 3579.136 $\pm$ 1.603  $\chi^2$ /NDF: 65221.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

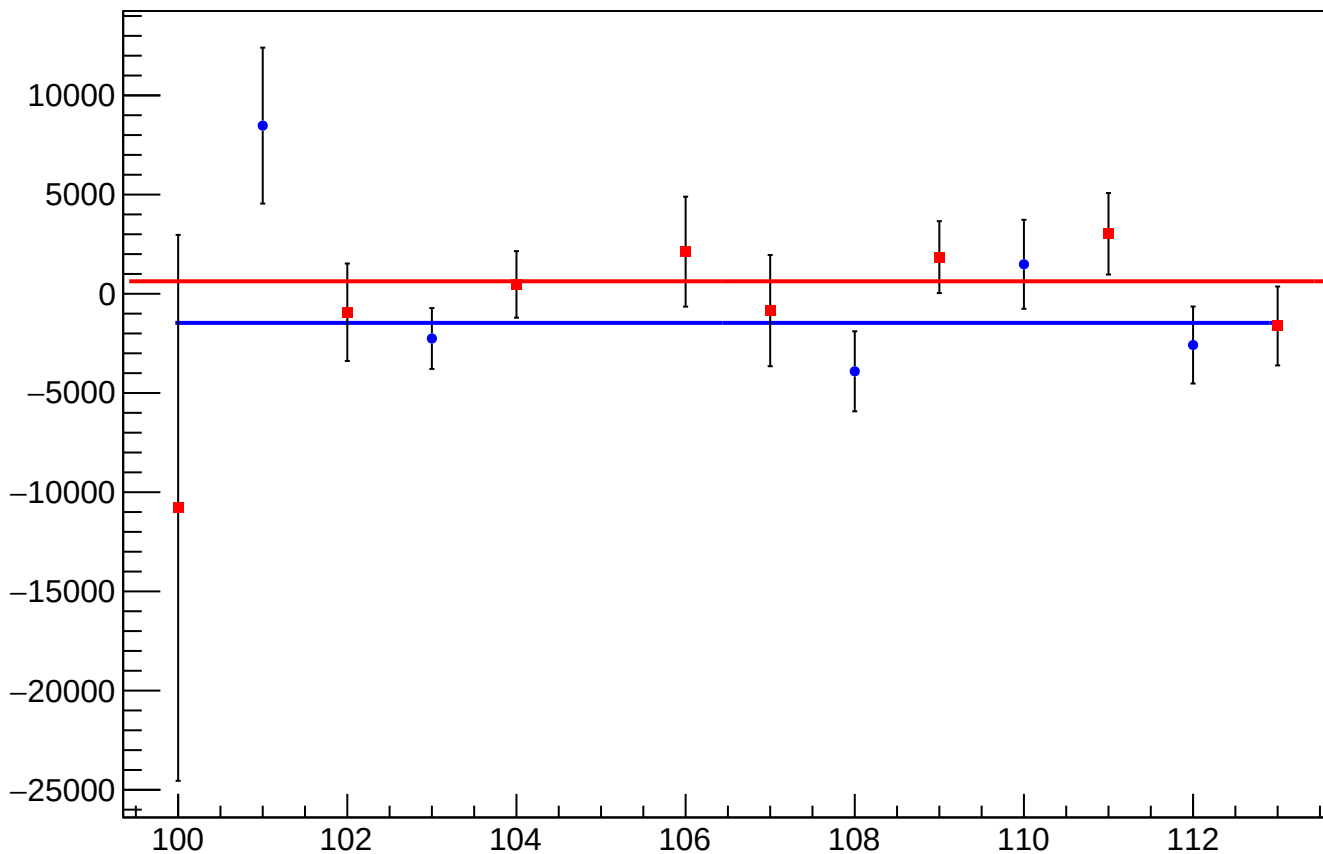
Right Out: 2884.066 $\pm$ 1.168  $\chi^2$ /NDF: 406307.8/7

All: 3124.963 $\pm$ 0.944  $\chi^2$ /NDF: 594353.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -1466.108 $\pm$ 912.879  $\chi^2$ /NDF: 10.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 630.343 $\pm$ 795.893  $\chi^2$ /NDF: 4.8/7

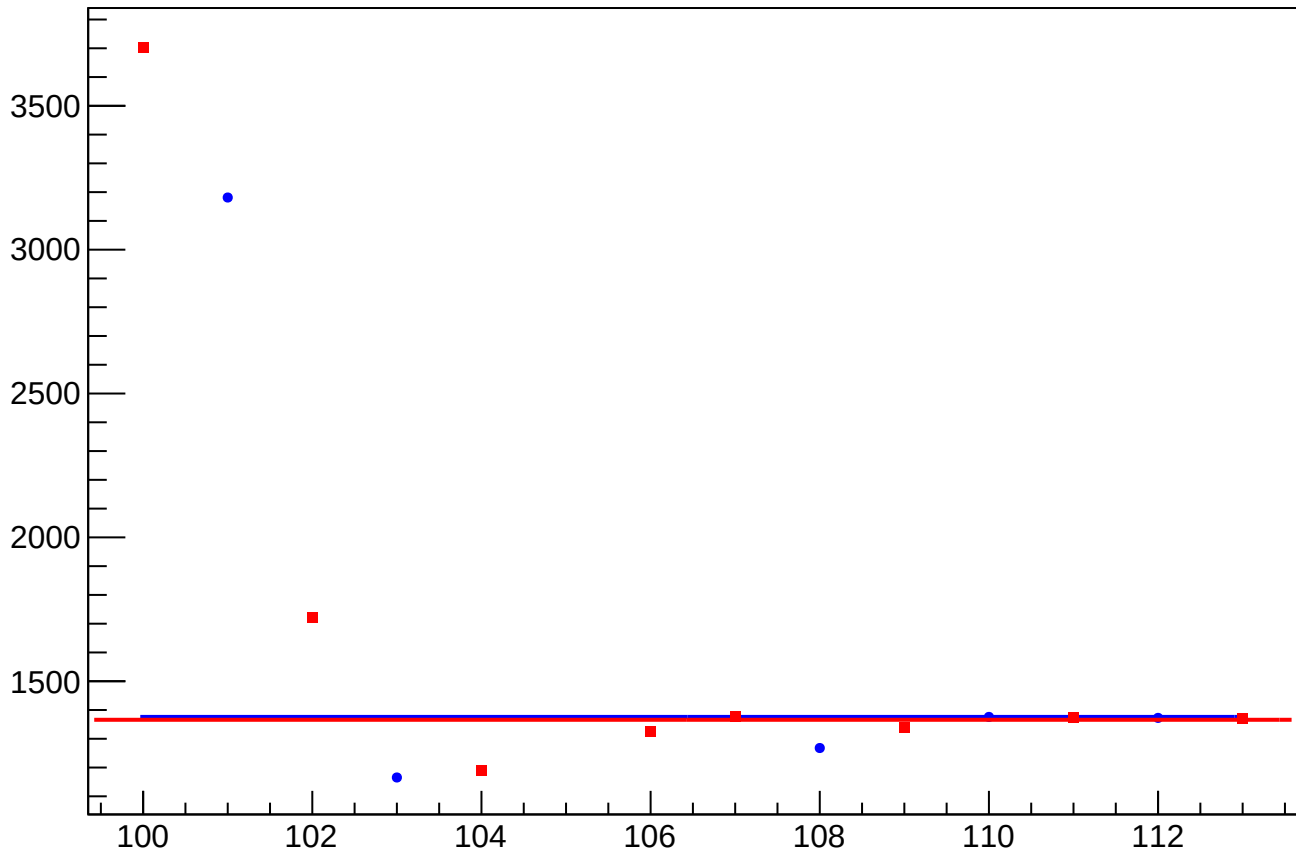
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -275.025 $\pm$ 599.906  $\chi^2$ /NDF: 18.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1375.999 $\pm$ 0.646  $\chi^2$ /NDF: 465624.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1365.991 $\pm$ 0.562  $\chi^2$ /NDF: 122488.1/7

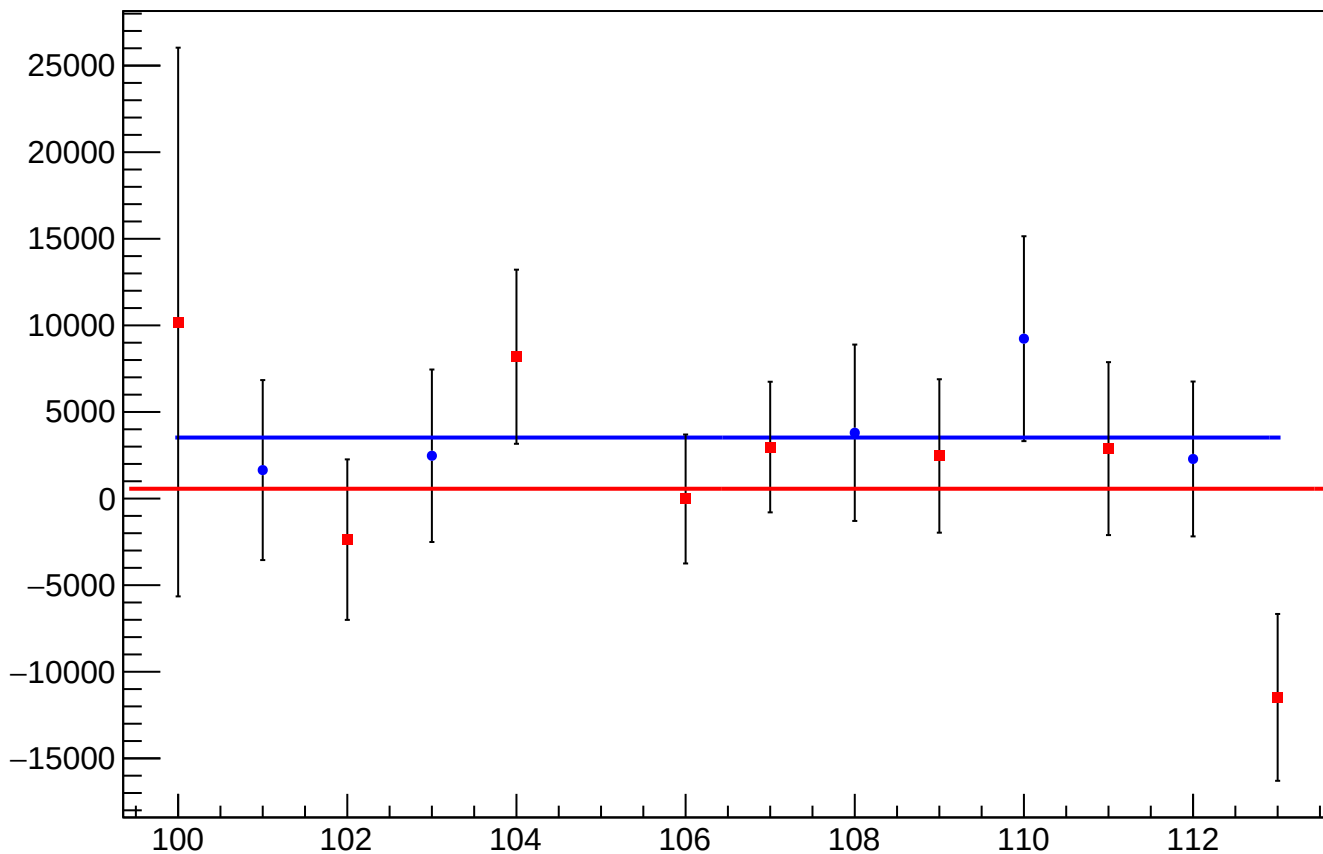
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1370.303 $\pm$ 0.424  $\chi^2$ /NDF: 588249.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 3523.628 $\pm$ 2267.238  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 567.306 $\pm$ 1651.206  $\chi^2$ /NDF: 10.2/7

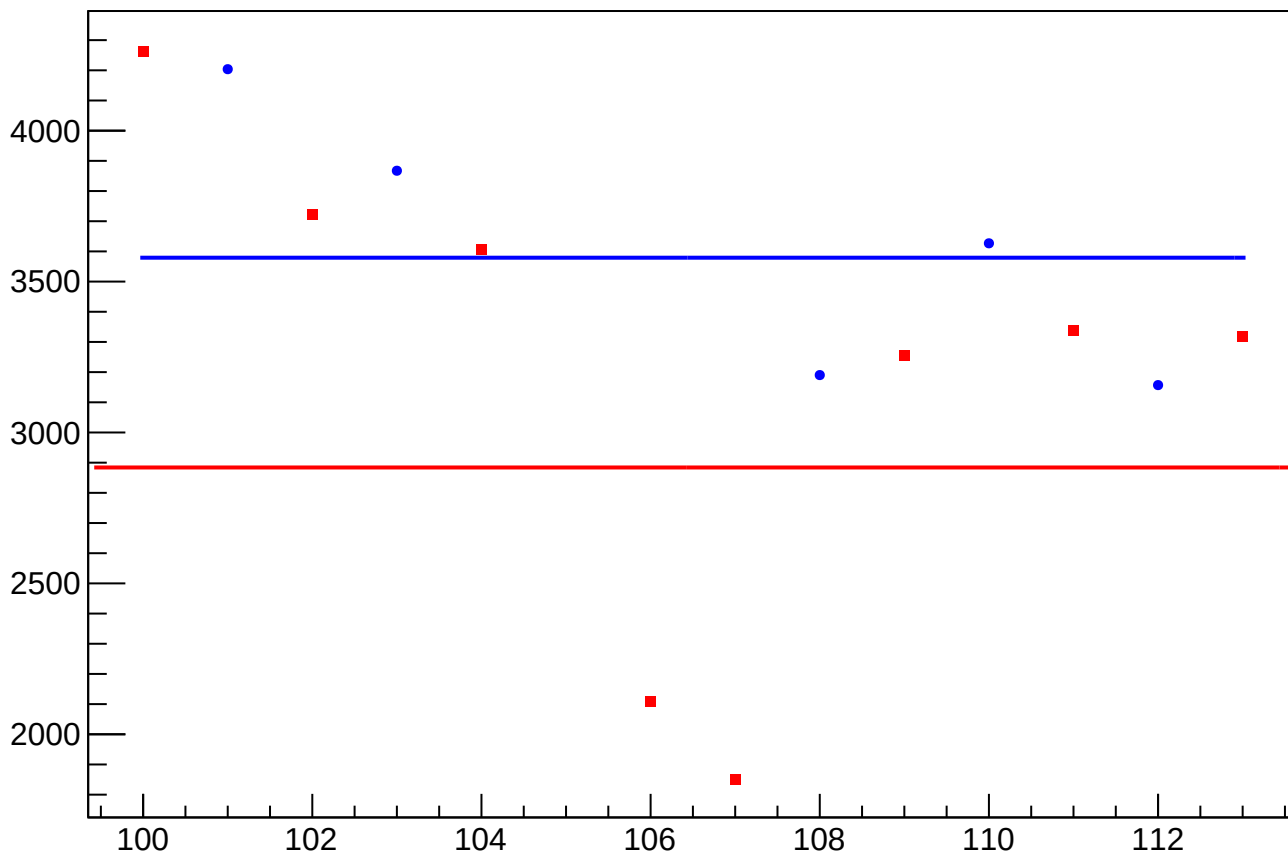
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1591.903 $\pm$ 1334.744  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 3579.131+/-1.603  $\chi^2/\text{NDF}$ : 65222.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2884.060+/-1.168  $\chi^2/\text{NDF}$ : 406310.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

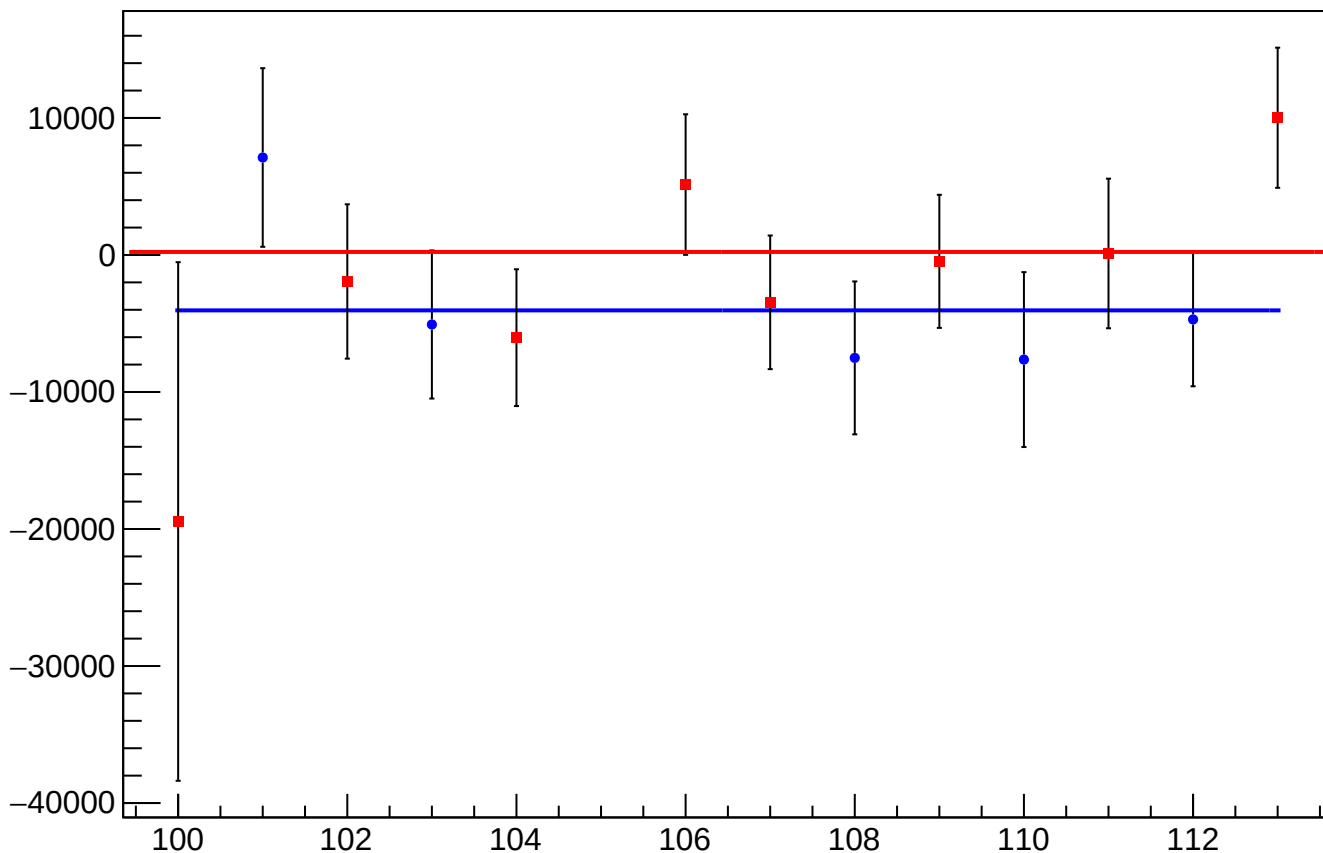
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3124.957+/-0.944  $\chi^2/\text{NDF}$ : 594357.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -4042.931 $\pm$ 2528.329  $\chi^2$ /NDF: 3.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 221.731 $\pm$ 1929.250  $\chi^2$ /NDF: 8.0/7

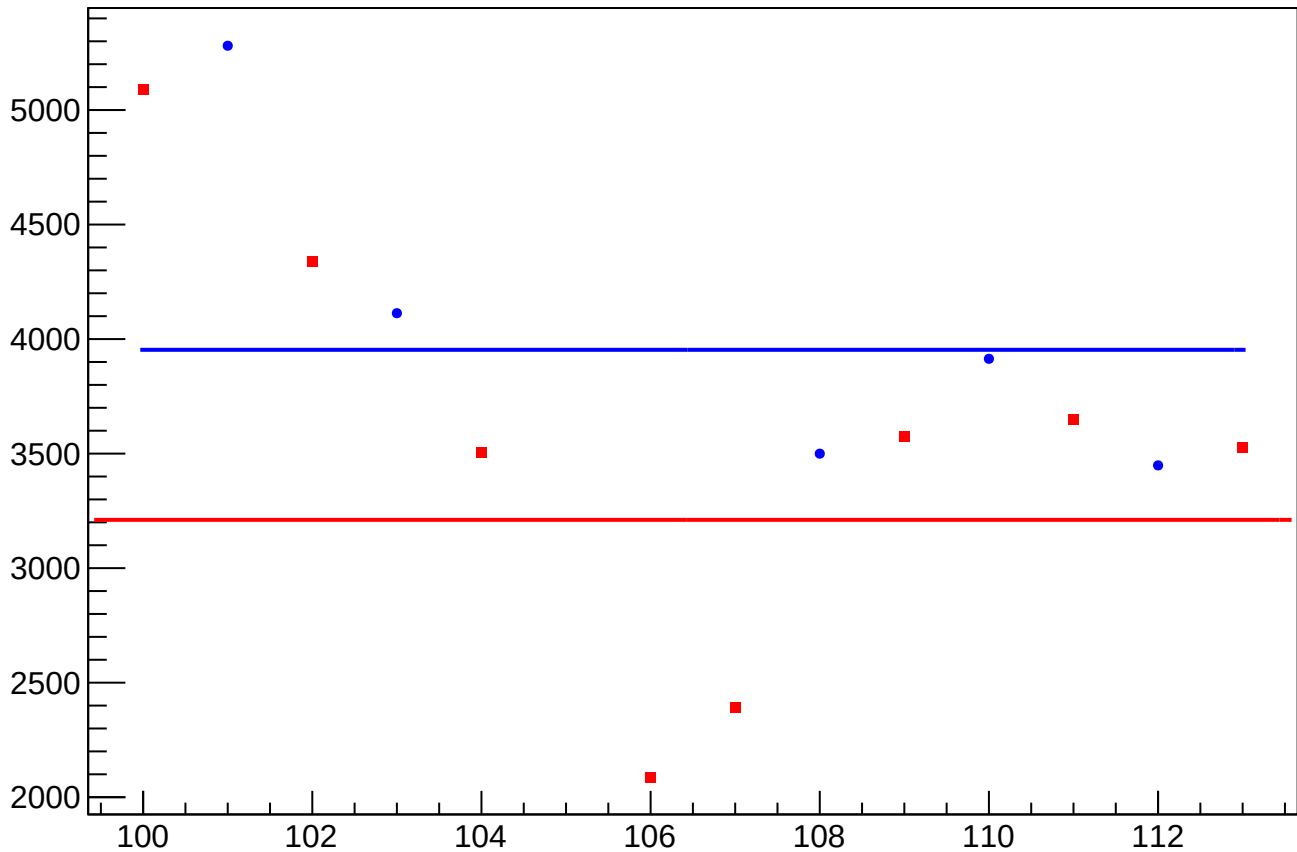
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1347.617 $\pm$ 1533.737  $\chi^2$ /NDF: 13.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 3953.175+/-1.788  $\chi^2/\text{NDF}$ : 119376.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3210.851+/-1.326  $\chi^2/\text{NDF}$ : 329634.4/7

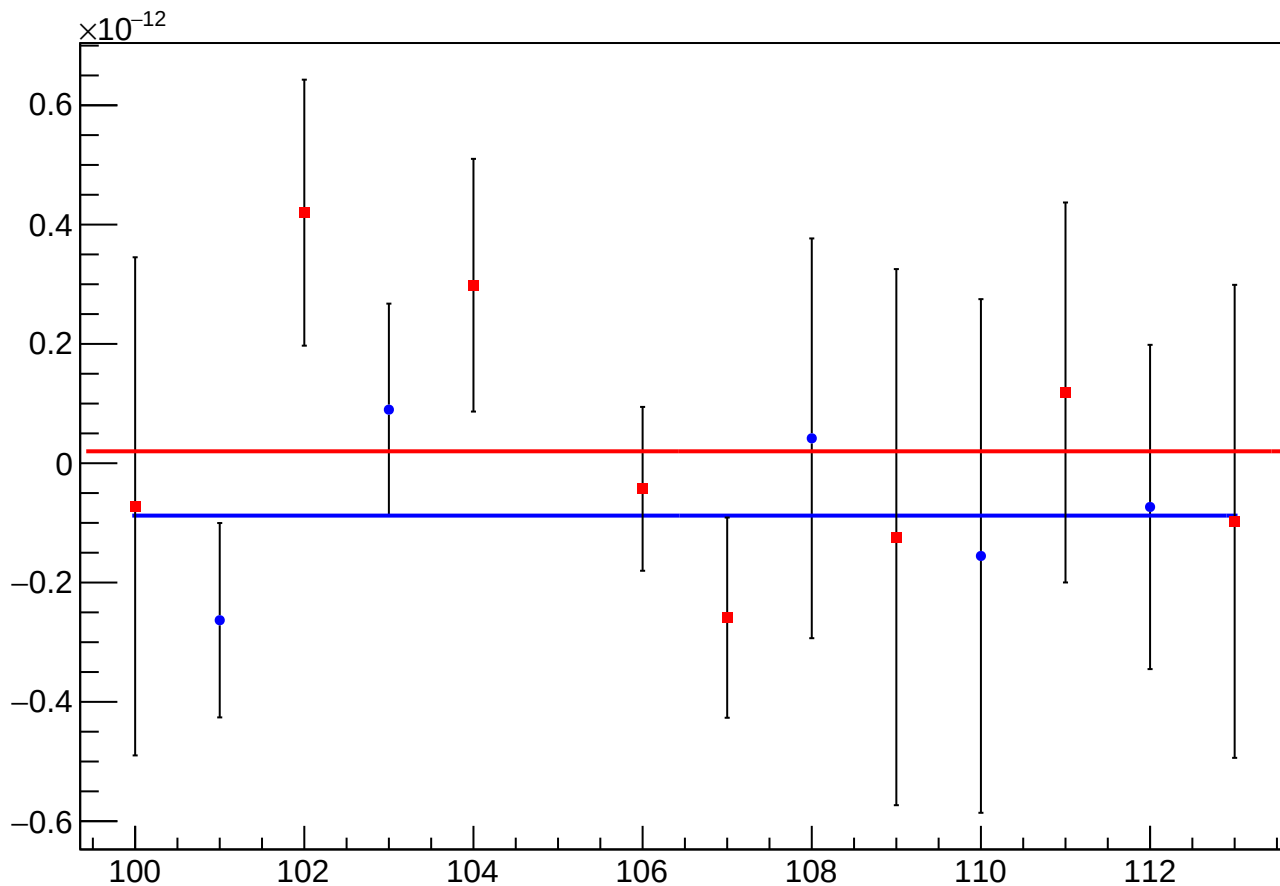
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3474.362+/-1.065  $\chi^2/\text{NDF}$ : 560221.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.3/7

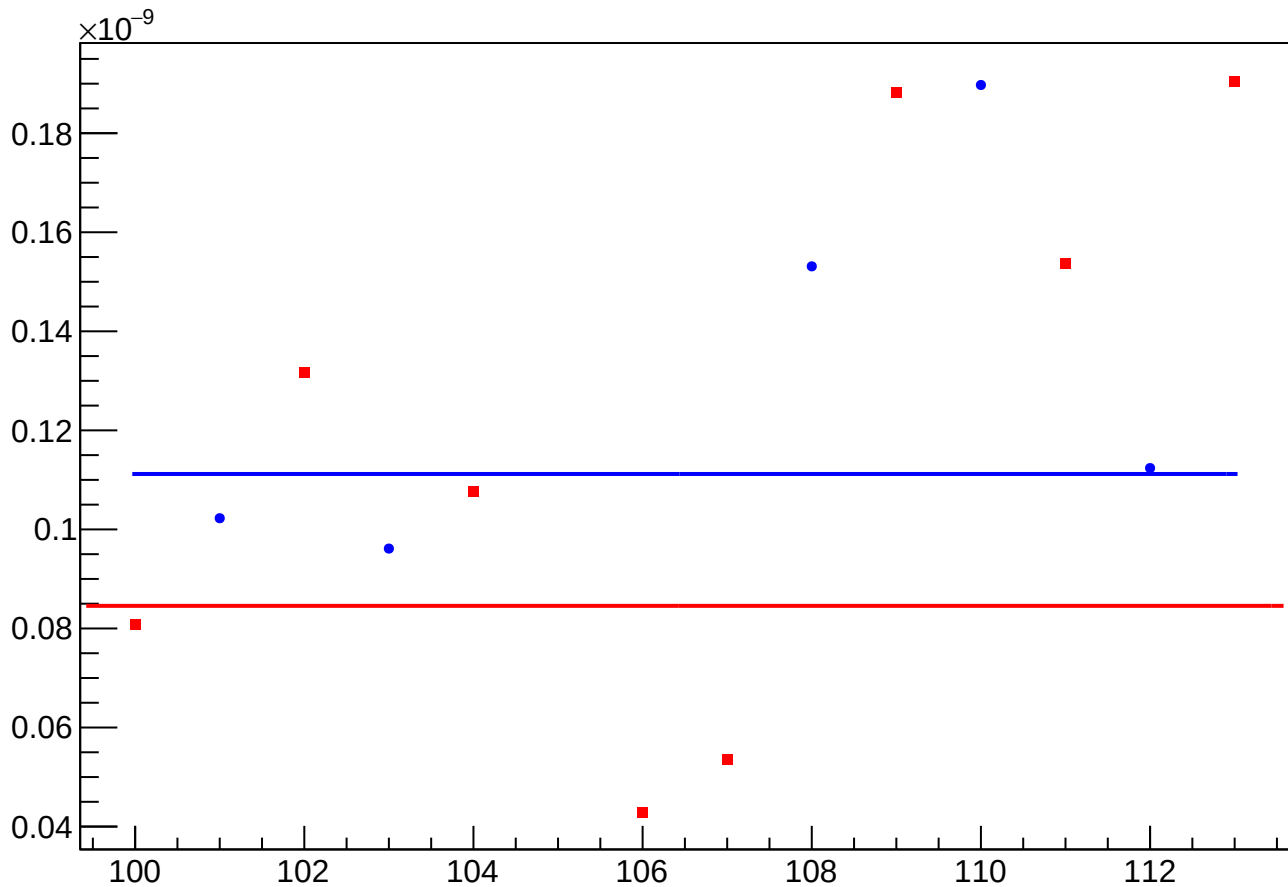
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 118302.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 710553.9/7

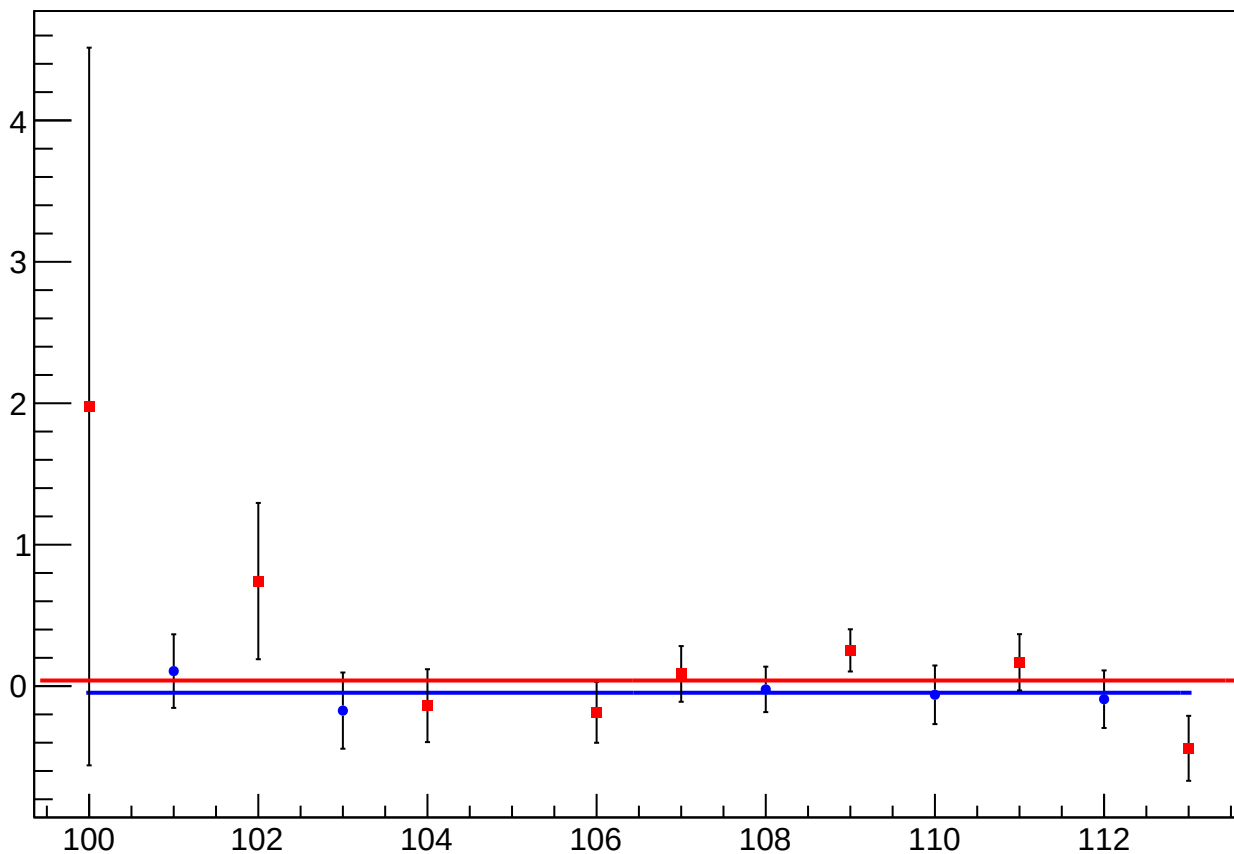
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 914143.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.047 \pm 0.093$   $\chi^2/\text{NDF}$ : 0.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.040 \pm 0.080$   $\chi^2/\text{NDF}$ : 10.6/7

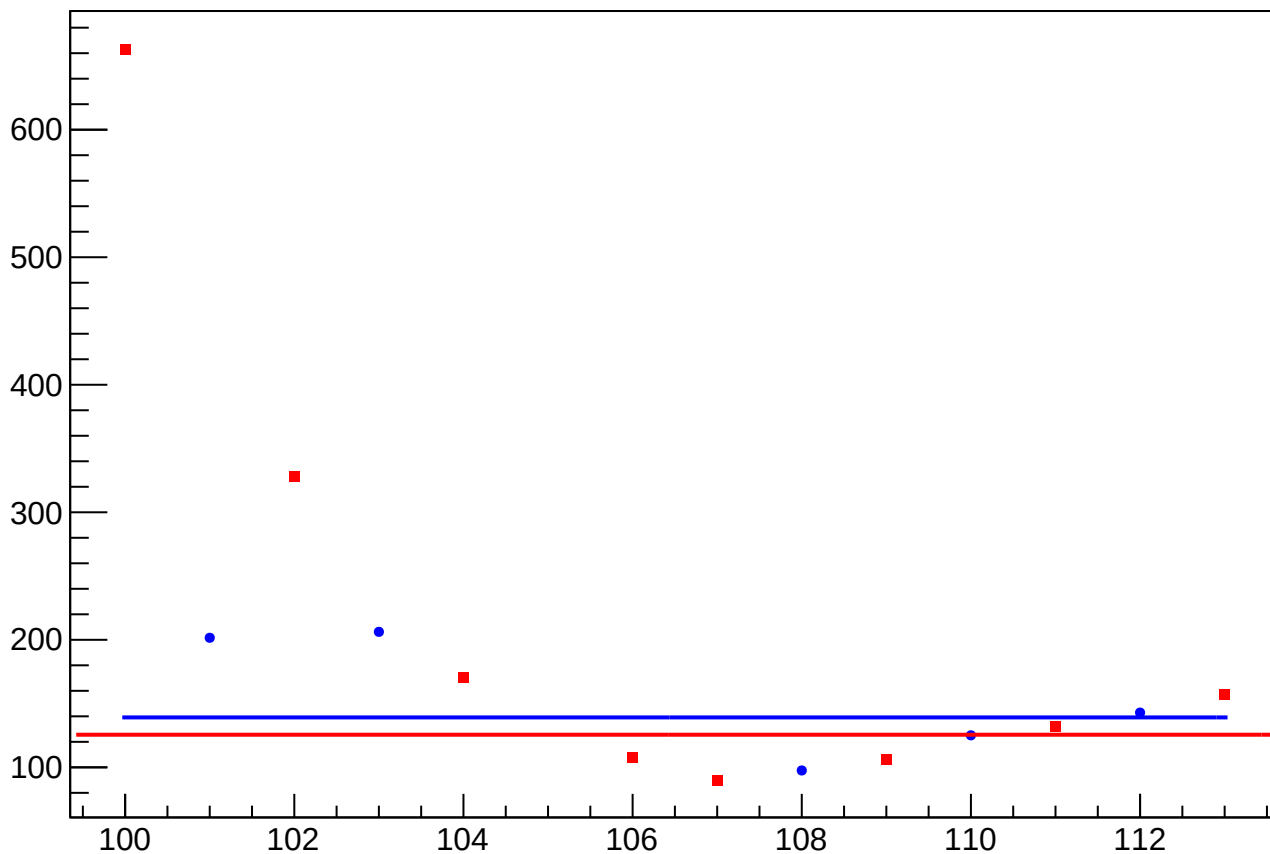
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.003 \pm 0.061$   $\chi^2/\text{NDF}$ : 11.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.147 $\pm$ 0.066  $\chi^2$ /NDF: 383175.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 125.574 $\pm$ 0.057  $\chi^2$ /NDF: 572839.9/7

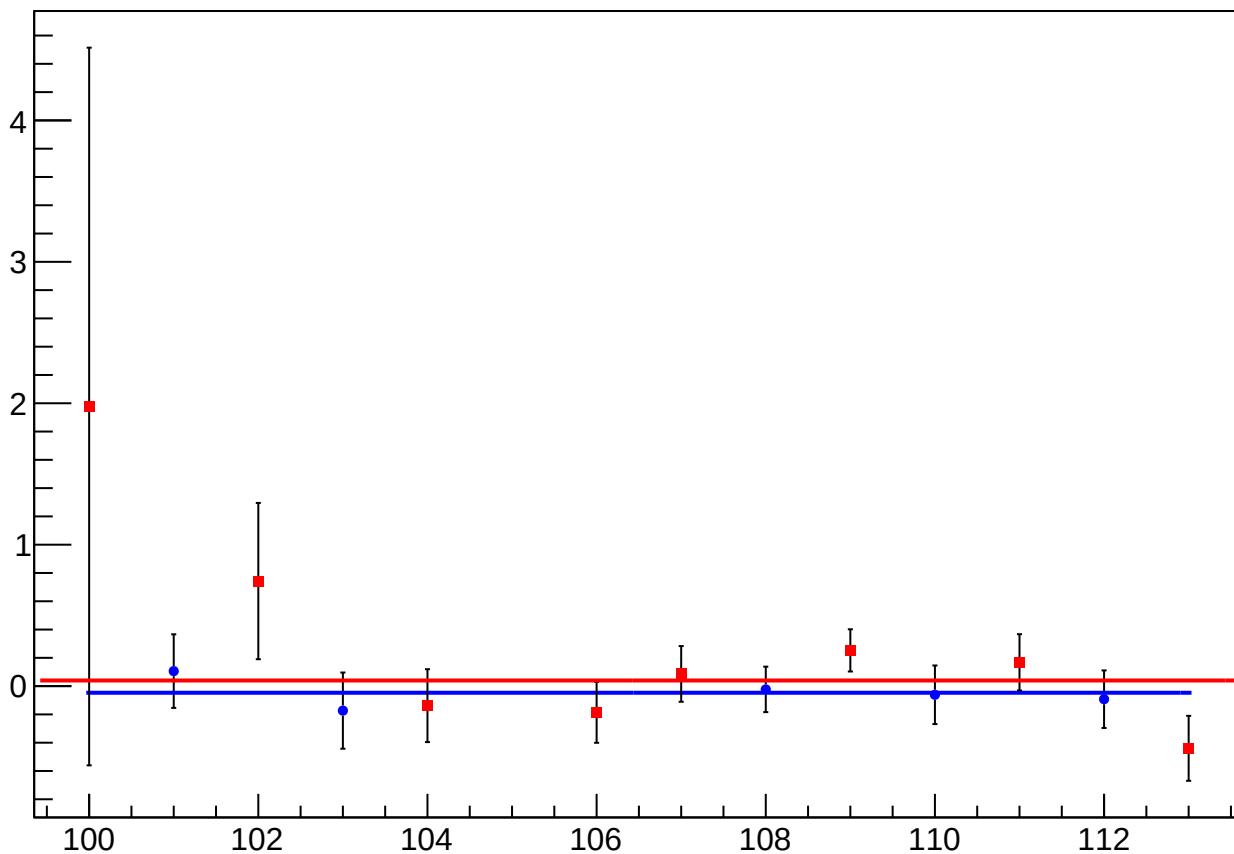
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 131.349 $\pm$ 0.043  $\chi^2$ /NDF: 980297.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.047 $\pm$ 0.093  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.040 $\pm$ 0.080  $\chi^2$ /NDF: 10.6/7

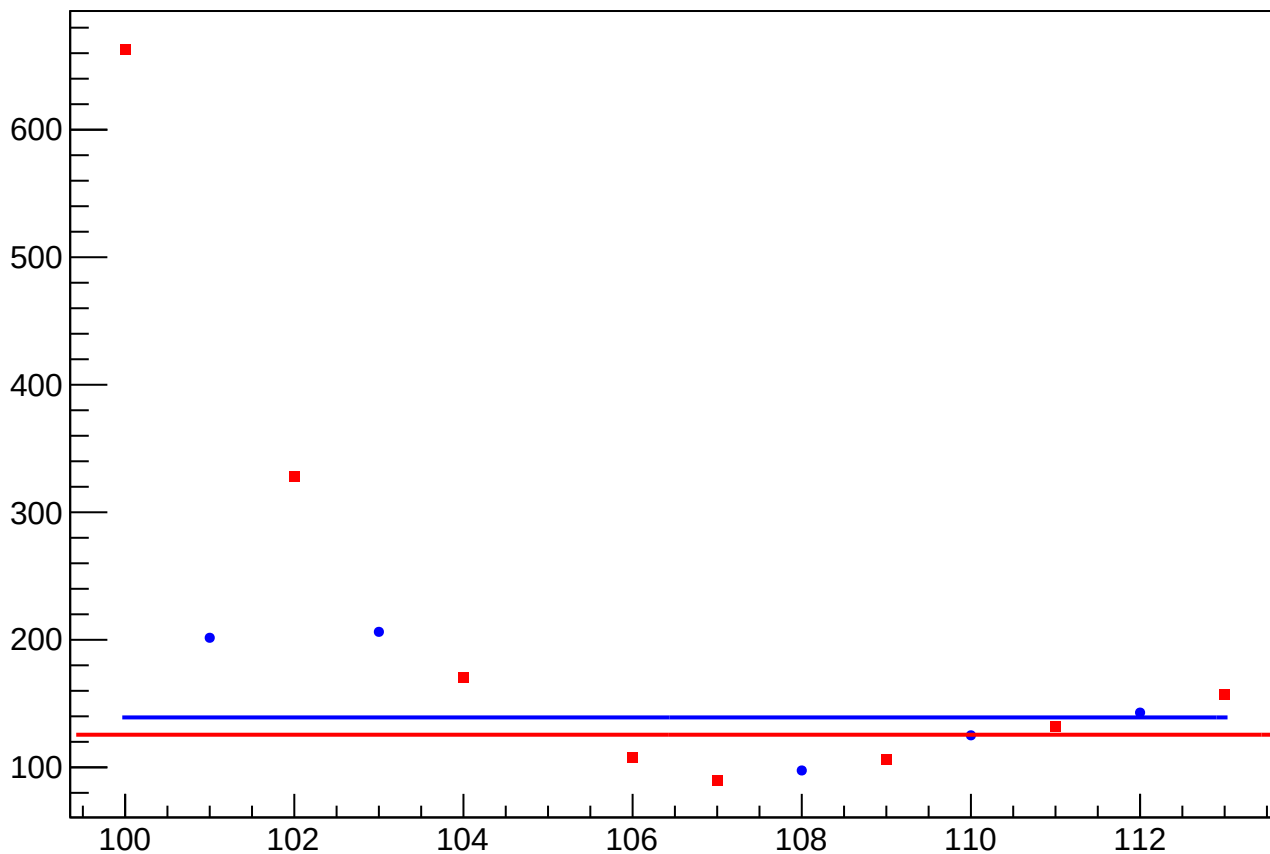
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.061  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.147 $\pm$ 0.066  $\chi^2$ /NDF: 383175.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 125.574 $\pm$ 0.057  $\chi^2$ /NDF: 572839.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

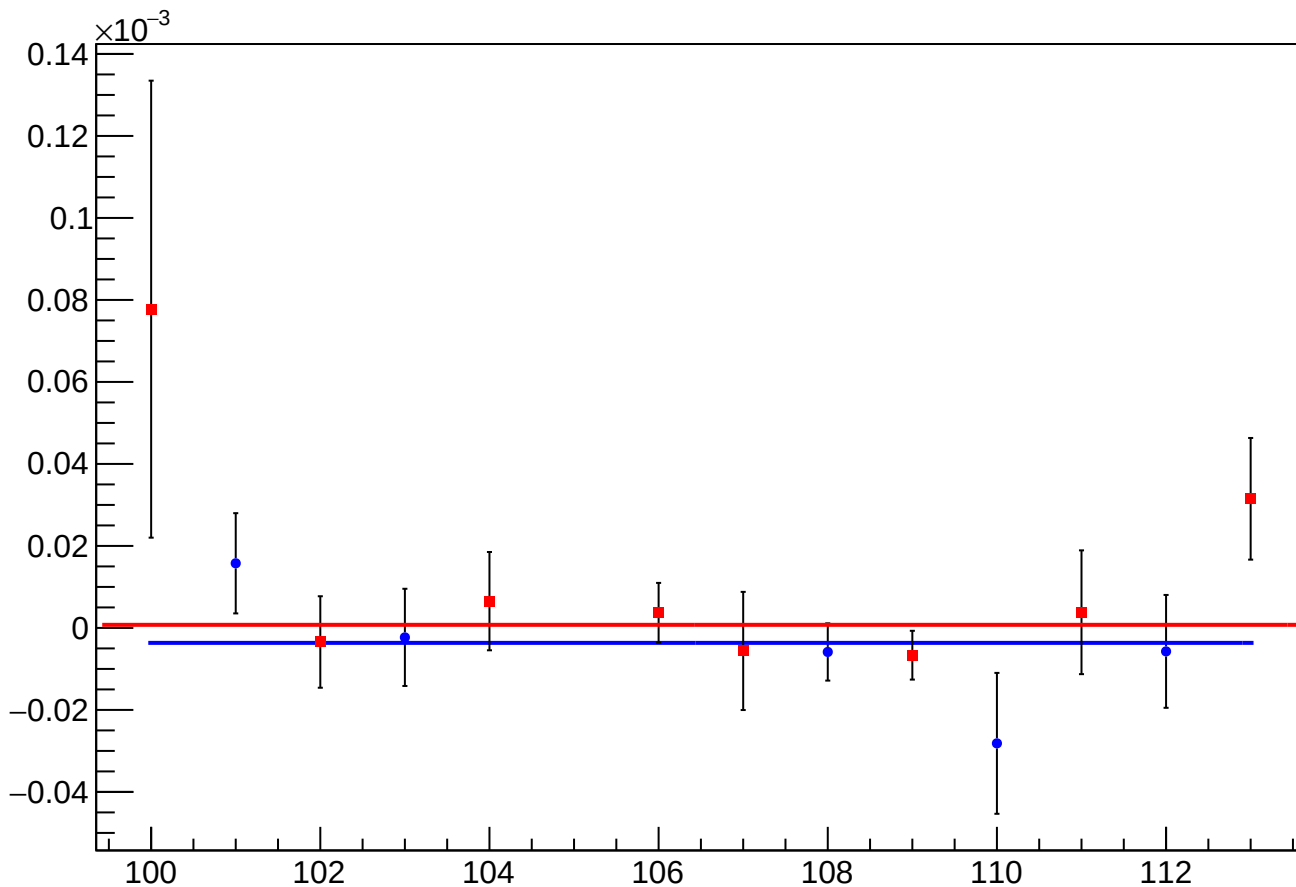
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 131.349 $\pm$ 0.043  $\chi^2$ /NDF: 980297.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.5/7

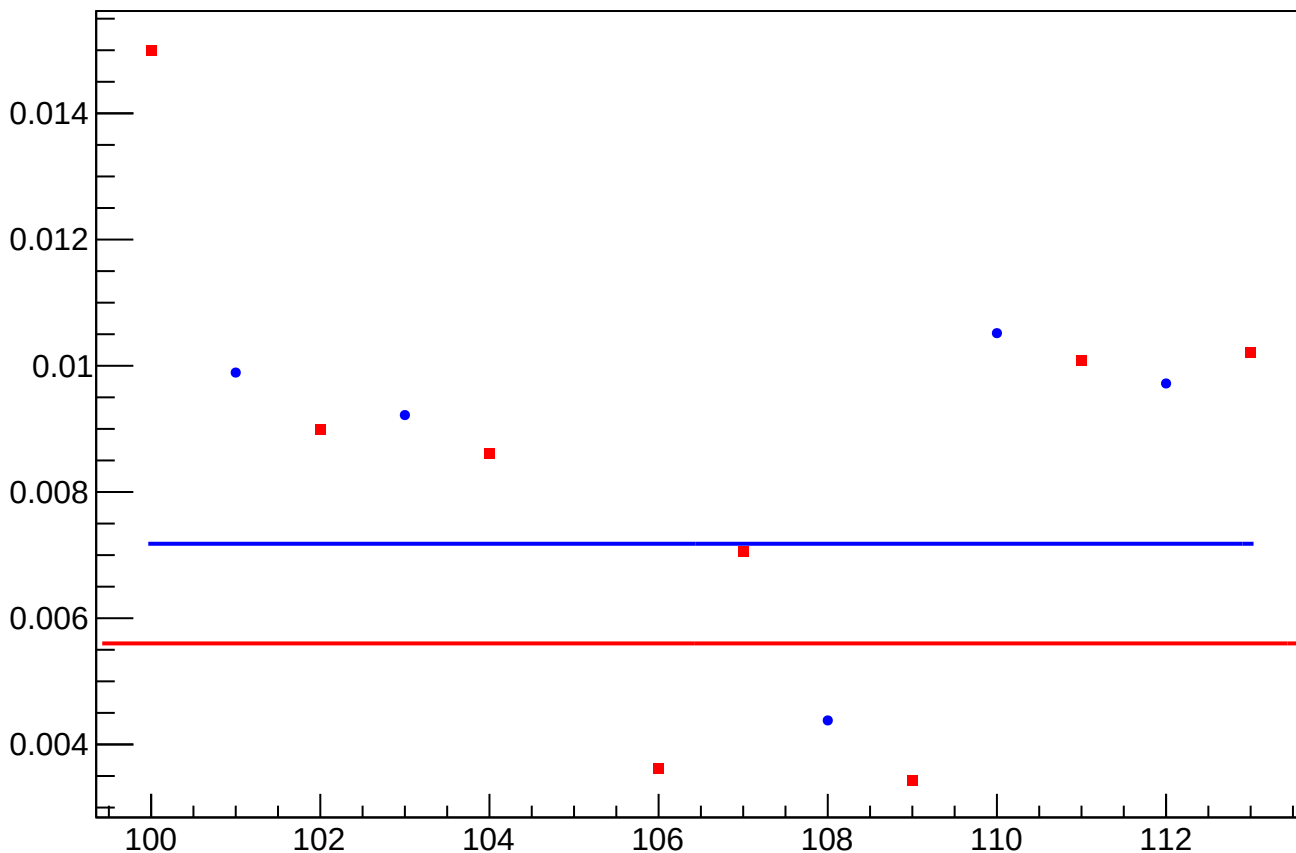
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 622404.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1173624.1/7

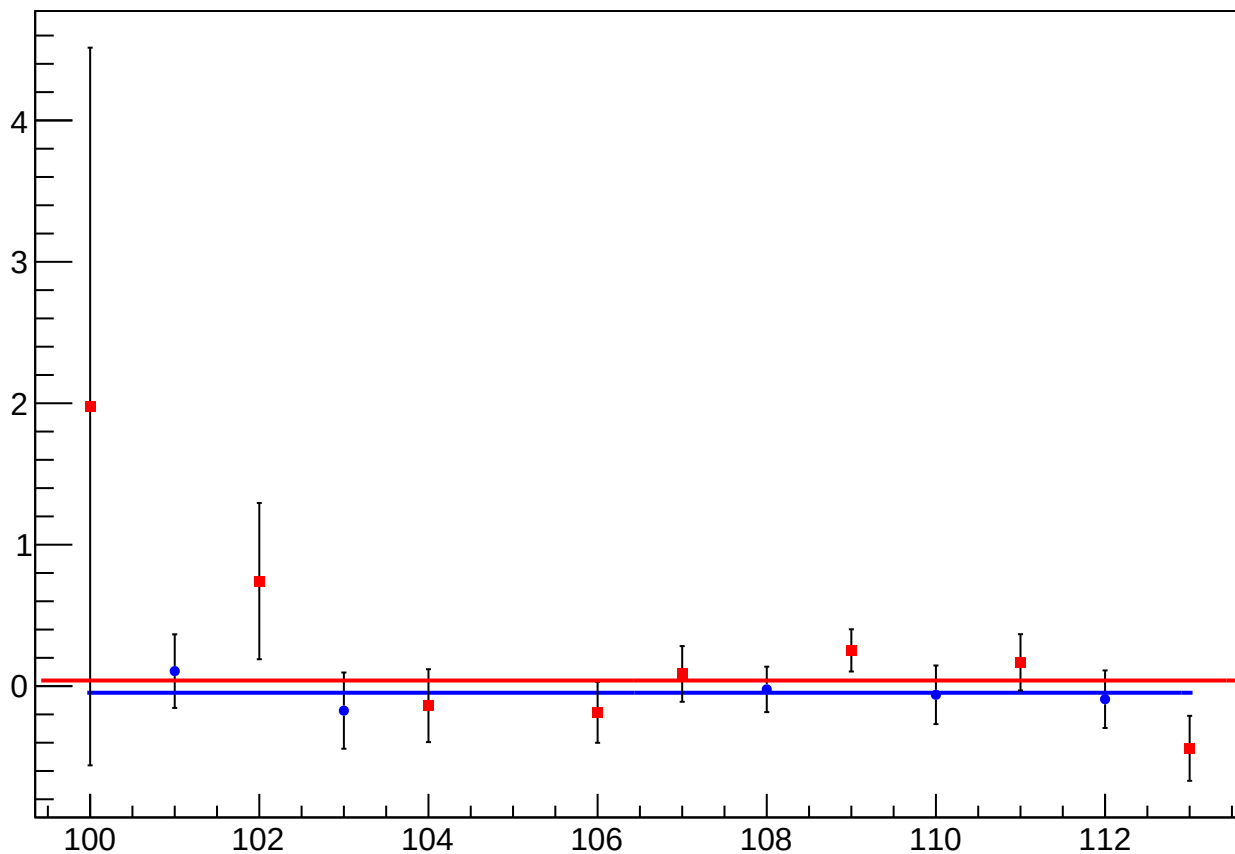
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1933030.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.047 $\pm$ -0.093  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.040 $\pm$ -0.080  $\chi^2$ /NDF: 10.6/7

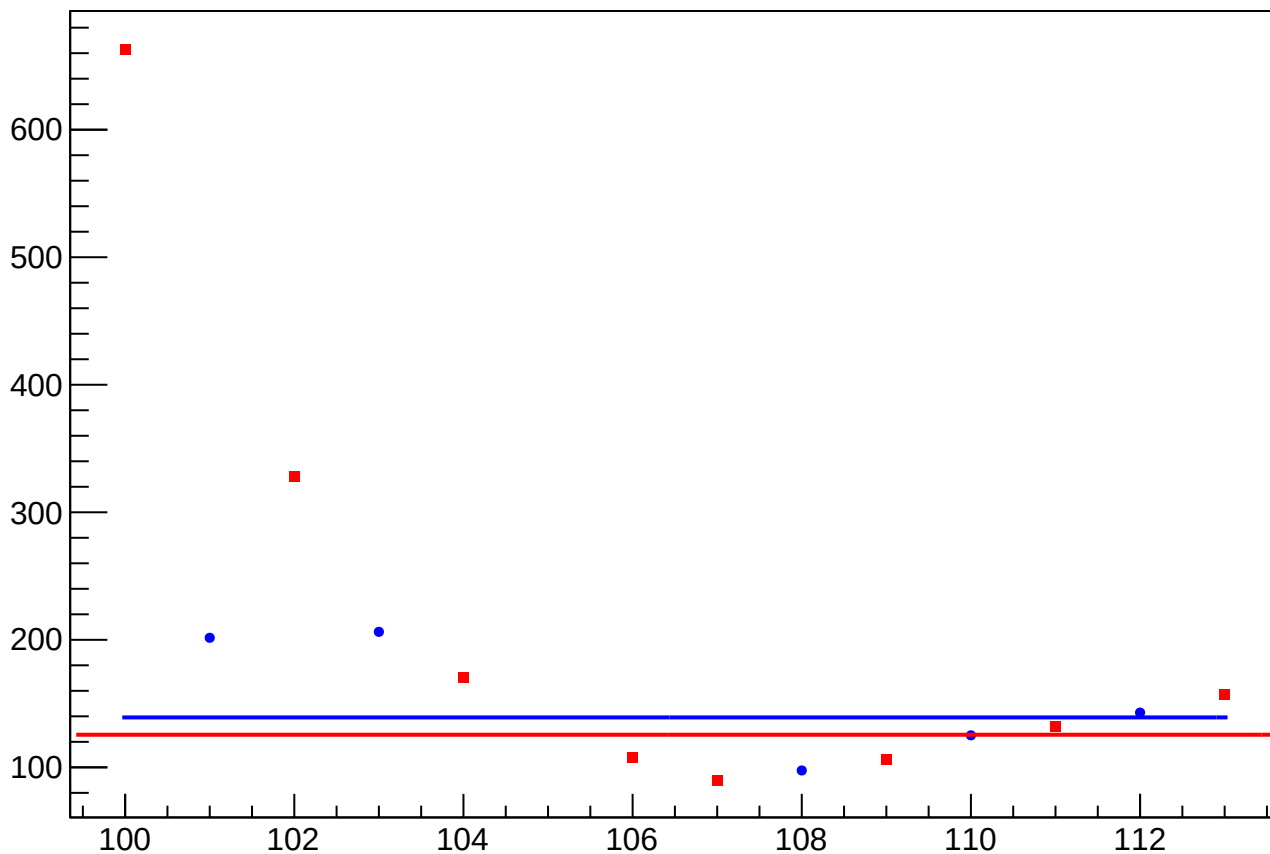
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ -0.061  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.149 $\pm$ 0.066  $\chi^2$ /NDF: 383138.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 125.576 $\pm$ 0.057  $\chi^2$ /NDF: 572795.4/7

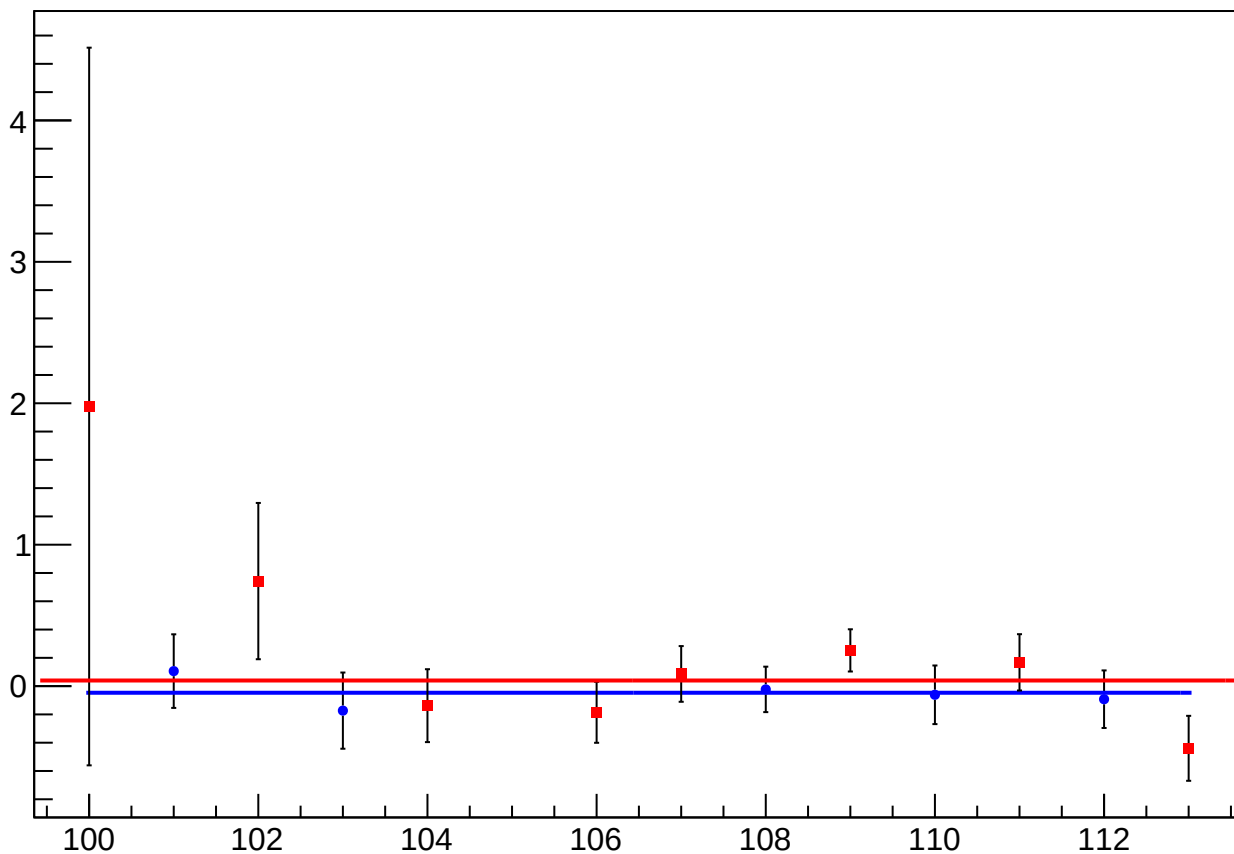
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 131.351 $\pm$ 0.043  $\chi^2$ /NDF: 980213.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.047 \pm 0.093$   $\chi^2/\text{NDF}$ : 0.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.040 \pm 0.080$   $\chi^2/\text{NDF}$ : 10.6/7

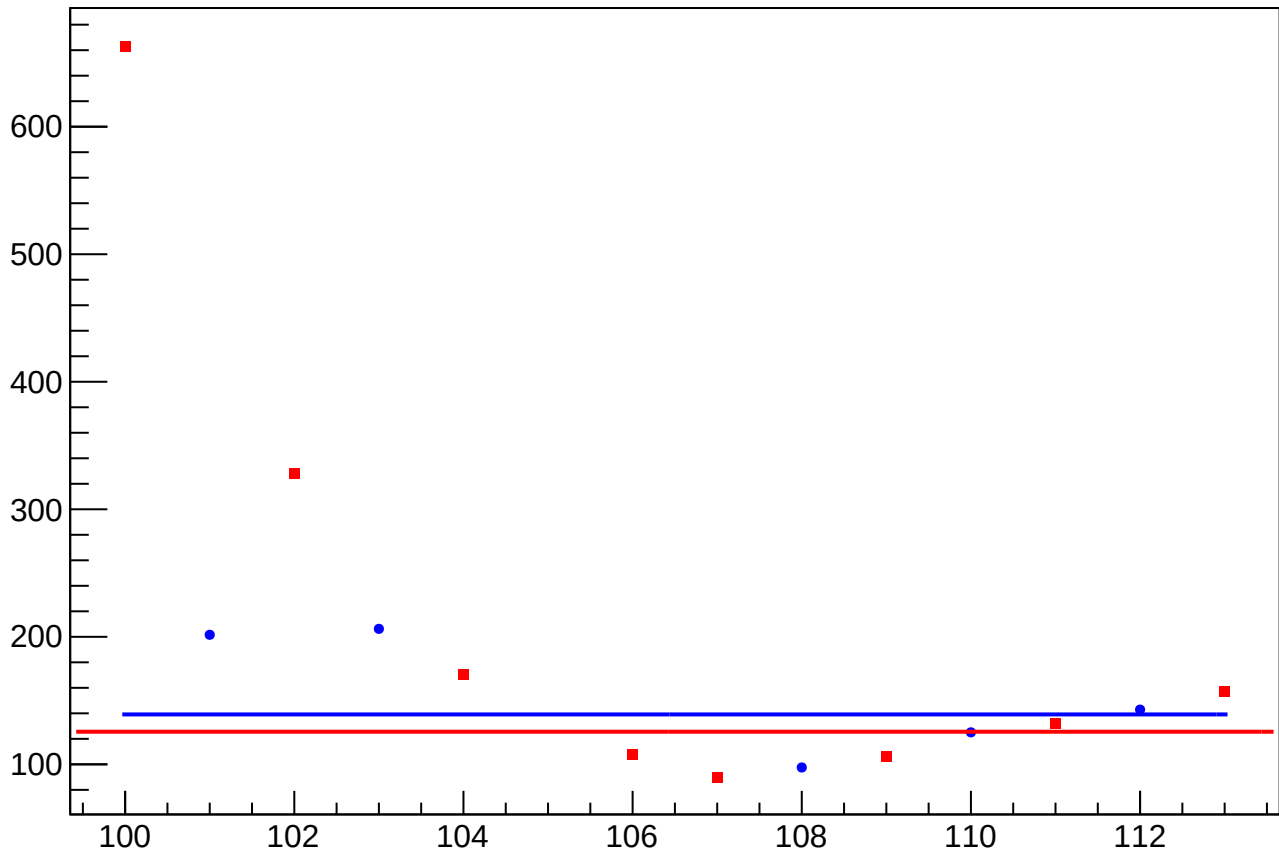
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.003 \pm 0.061$   $\chi^2/\text{NDF}$ : 11.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.149+/-0.066  $\chi^2/\text{NDF}$ : 383138.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 125.576+/-0.057  $\chi^2/\text{NDF}$ : 572795.4/7

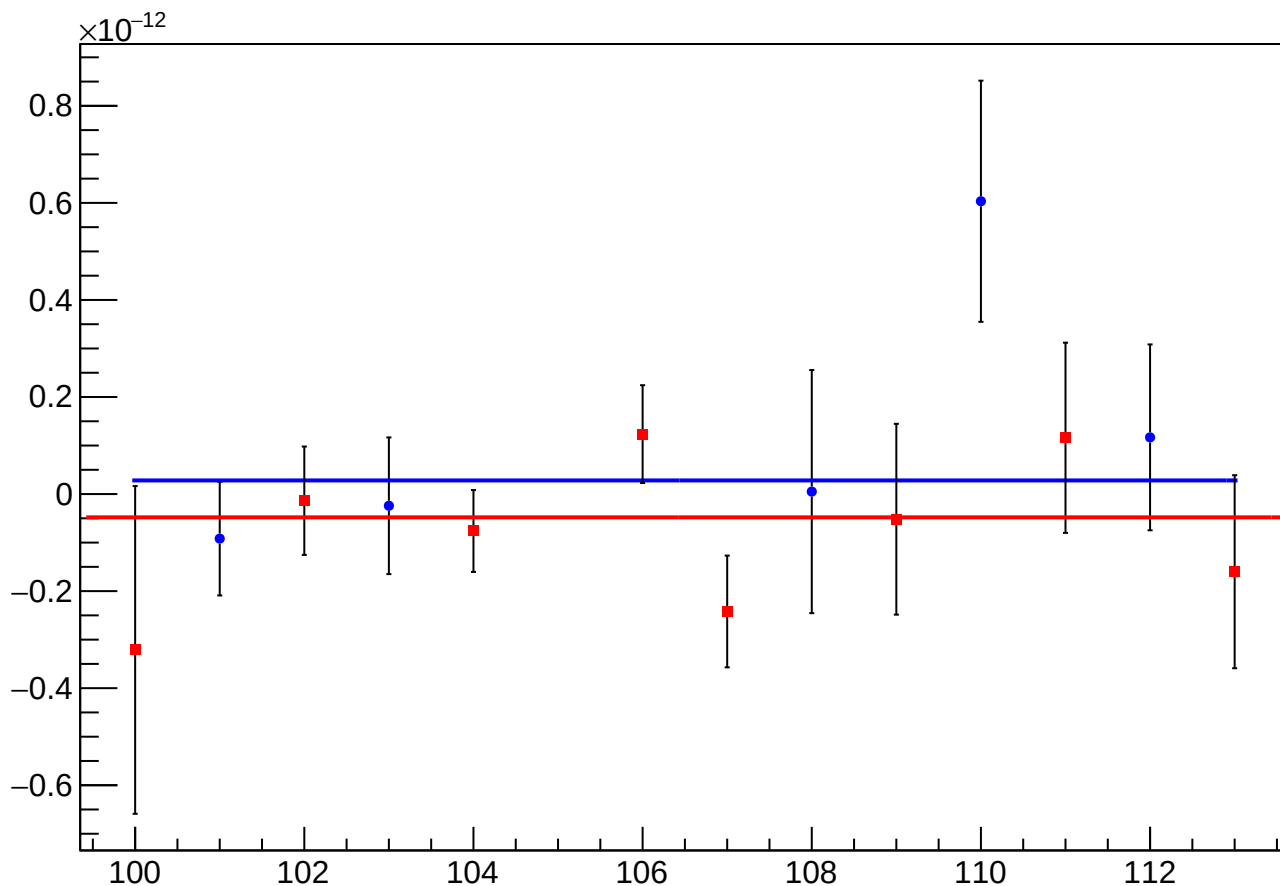
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 131.351+/-0.043  $\chi^2/\text{NDF}$ : 980213.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.6/7

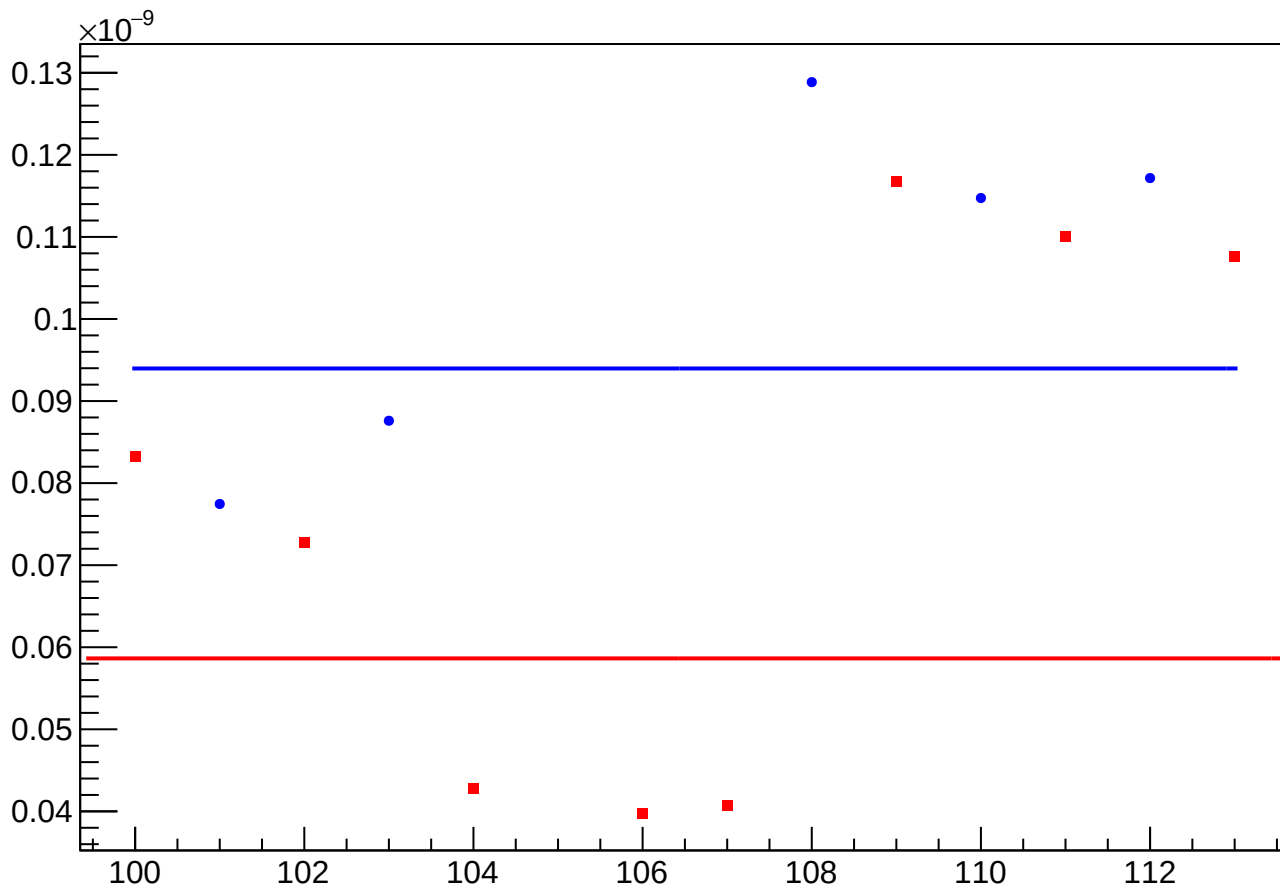
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 125965.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 665210.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

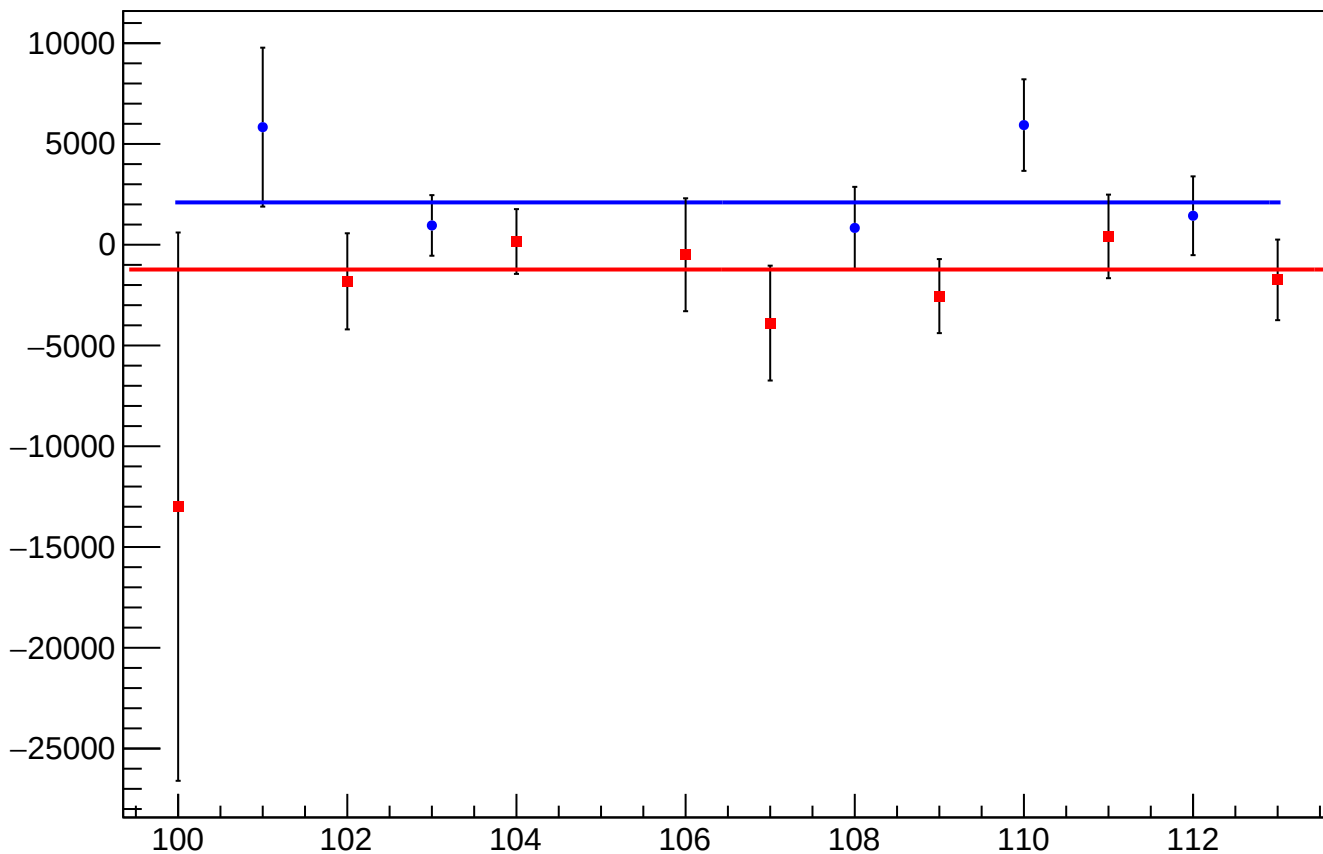
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1121626.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2099.830+/-911.736  $\chi^2/\text{NDF}$ : 4.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1230.211+/-791.095  $\chi^2/\text{NDF}$ : 3.7/7

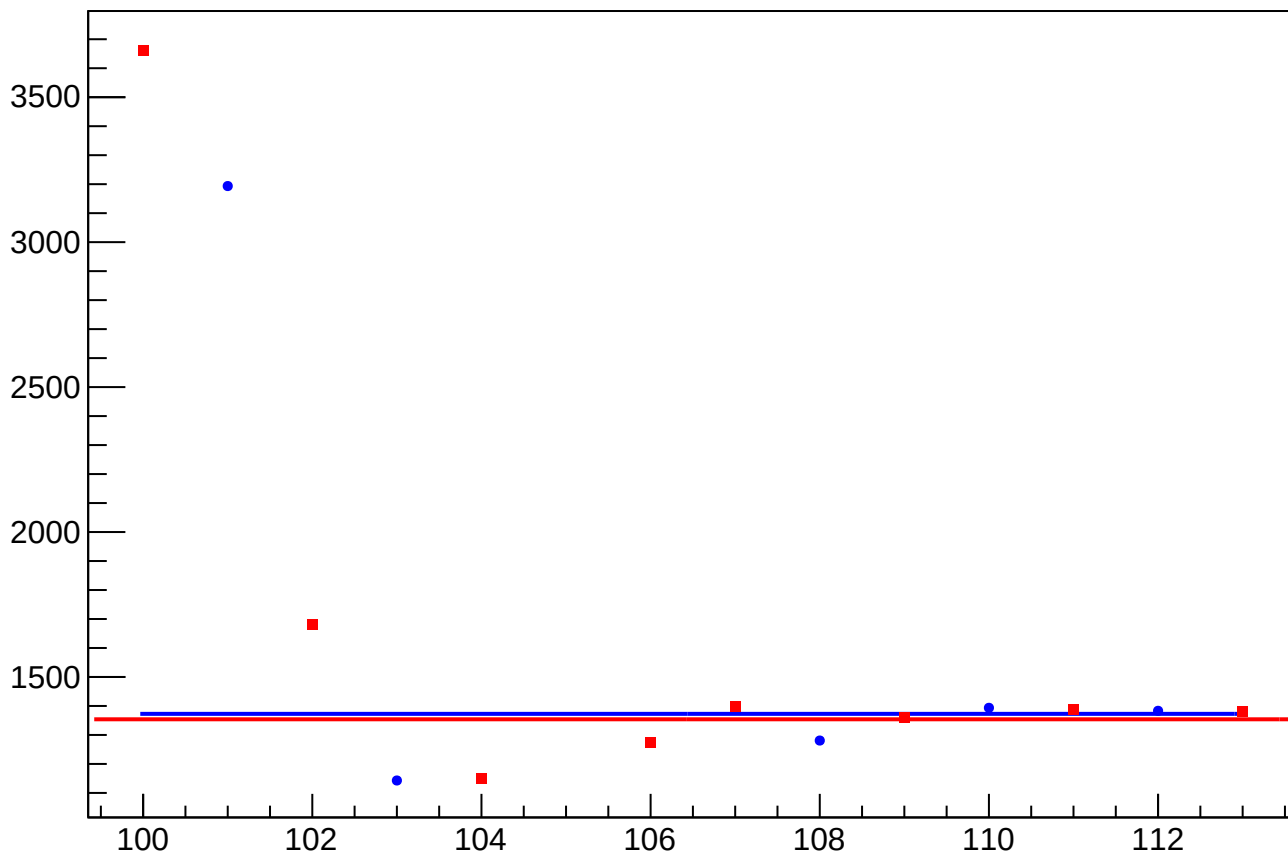
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 200.065+/-597.522  $\chi^2/\text{NDF}$ : 16.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 1372.796 $\pm$ 0.645  $\chi^2$ /NDF: 477426.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1354.006 $\pm$ 0.556  $\chi^2$ /NDF: 130350.7/7

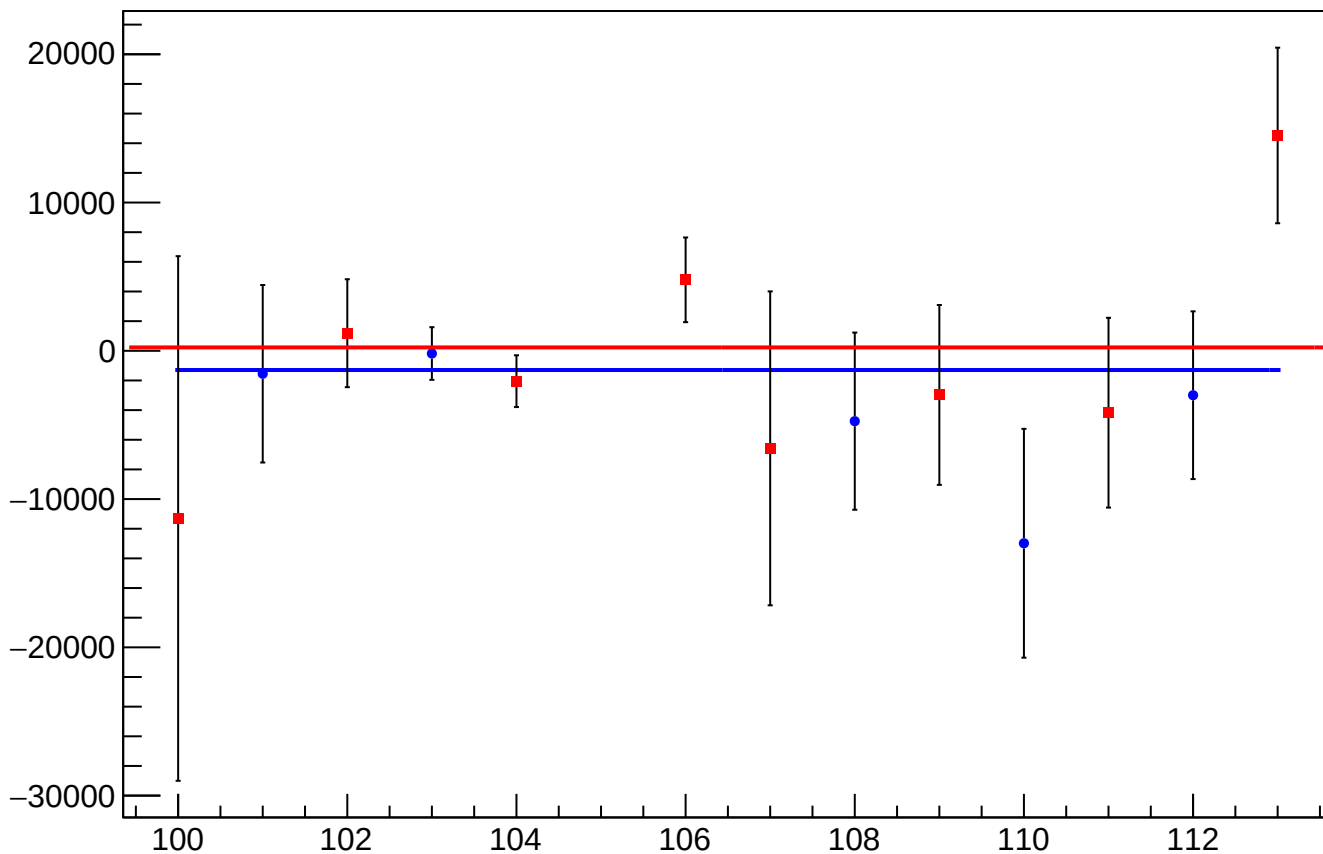
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1362.013 $\pm$ 0.421  $\chi^2$ /NDF: 608264.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_reg\_correction\_mean vs Slug



Right In: -1295.285+/-1540.743  $\chi^2/\text{NDF}$ : 3.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 228.770+/-1271.761  $\chi^2/\text{NDF}$ : 11.7/7

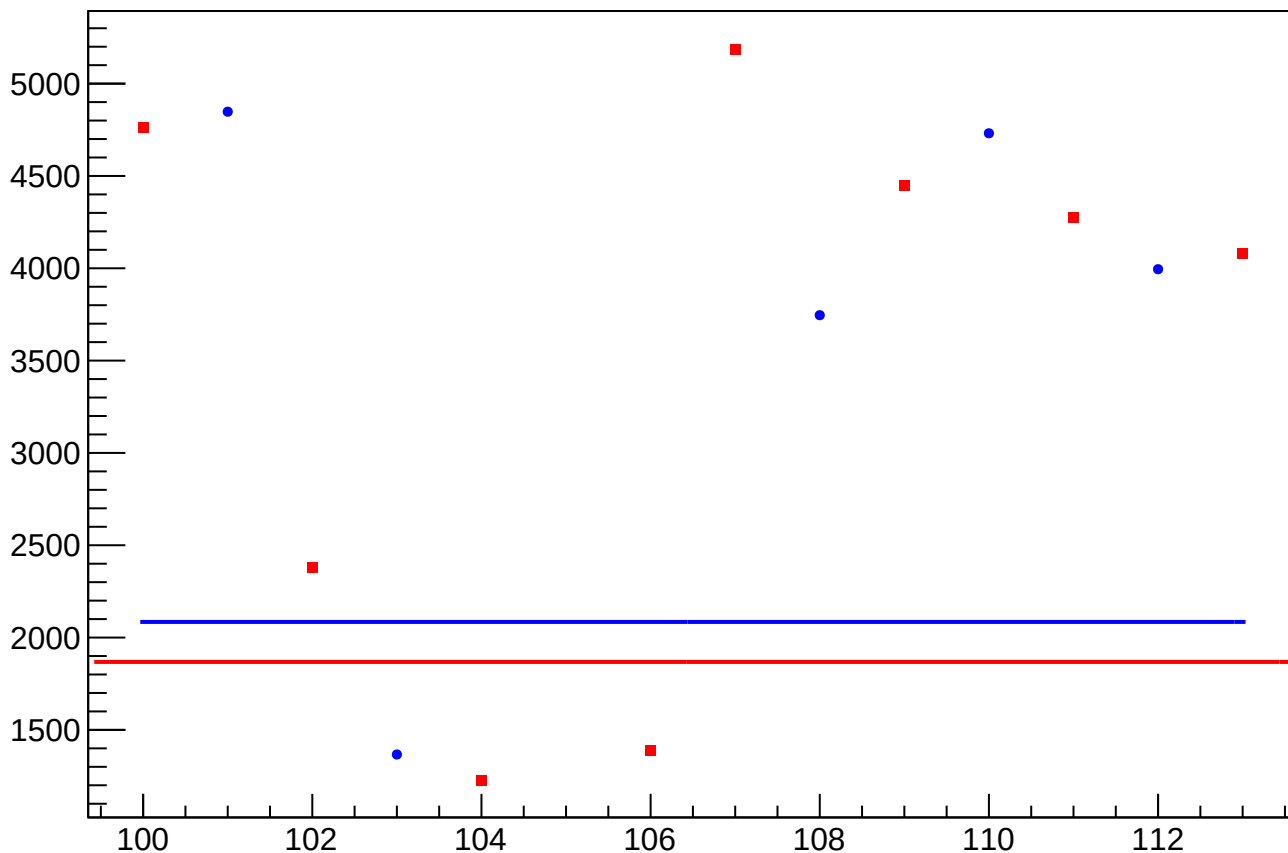
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -388.821+/-980.800  $\chi^2/\text{NDF}$ : 15.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_reg\_correction\_rms vs Slug



Right In: 2084.731+/-1.089  $\chi^2/\text{NDF}$ : 1371247.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

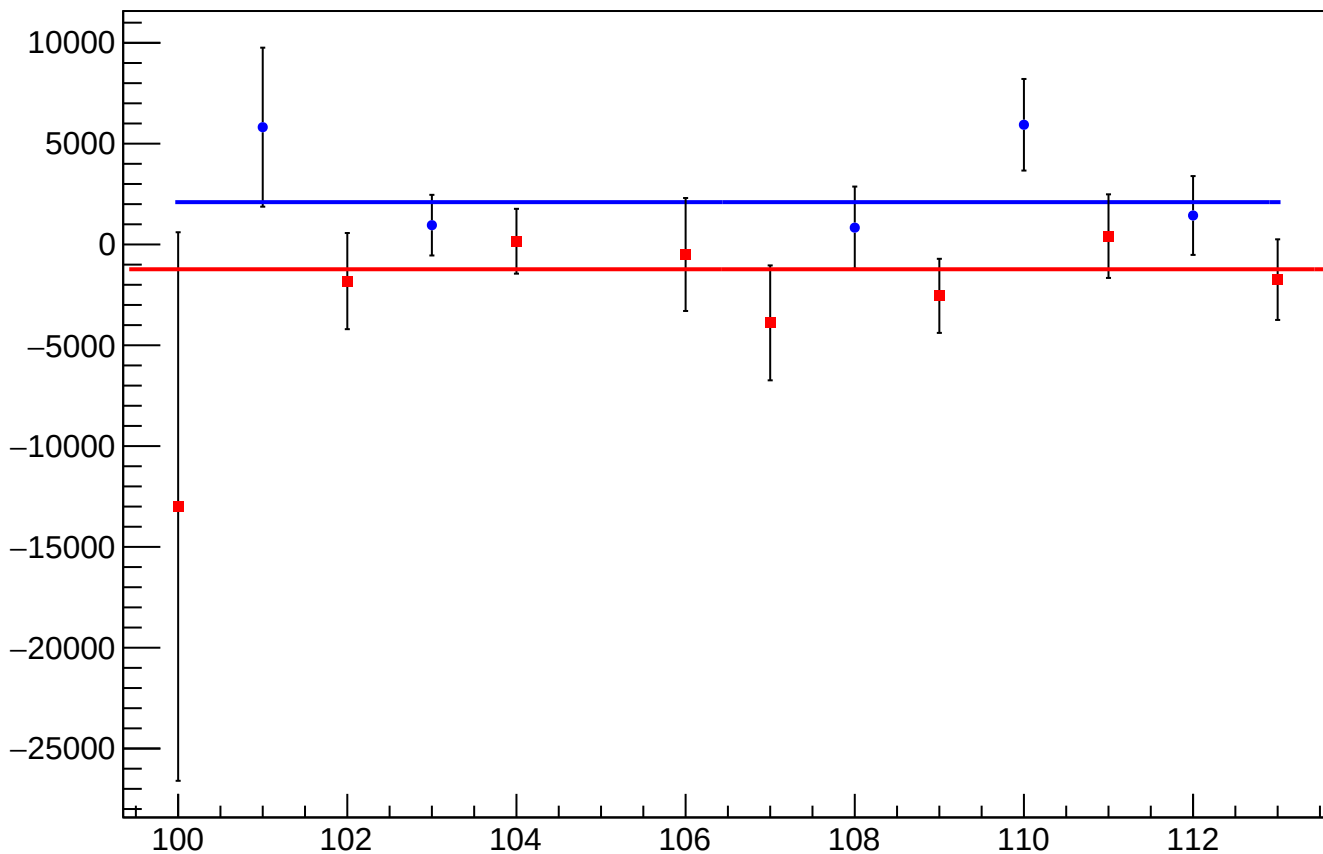
Right Out: 1868.044+/-0.899  $\chi^2/\text{NDF}$ : 1541040.3/7

All: 1955.852+/-0.694  $\chi^2/\text{NDF}$ : 2935815.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2098.980+/-911.736  $\chi^2/\text{NDF}$ : 4.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1229.810+/-791.096  $\chi^2/\text{NDF}$ : 3.7/7

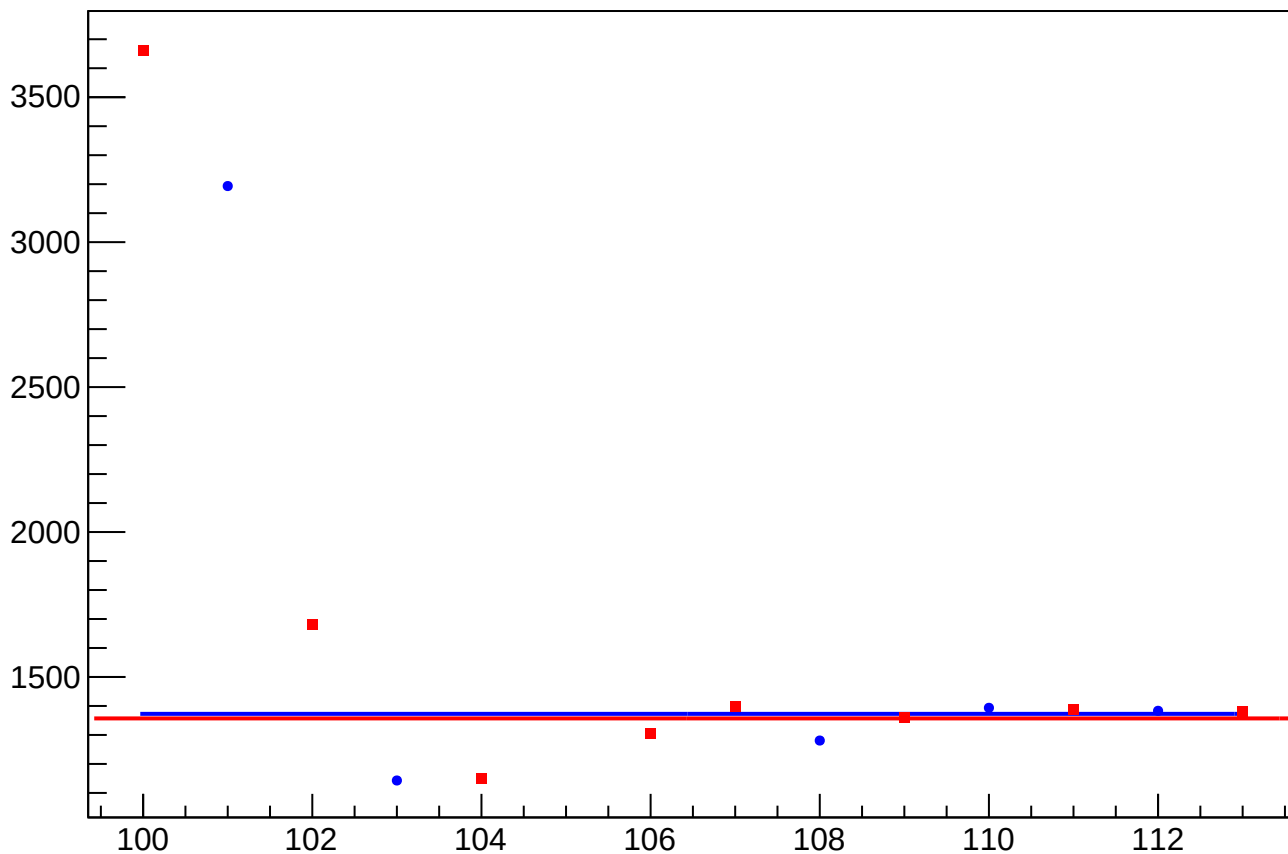
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 199.927+/-597.522  $\chi^2/\text{NDF}$ : 16.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 1372.795 $\pm$ 0.645  $\chi^2$ /NDF: 477428.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1357.030 $\pm$ 0.557  $\chi^2$ /NDF: 129115.1/7

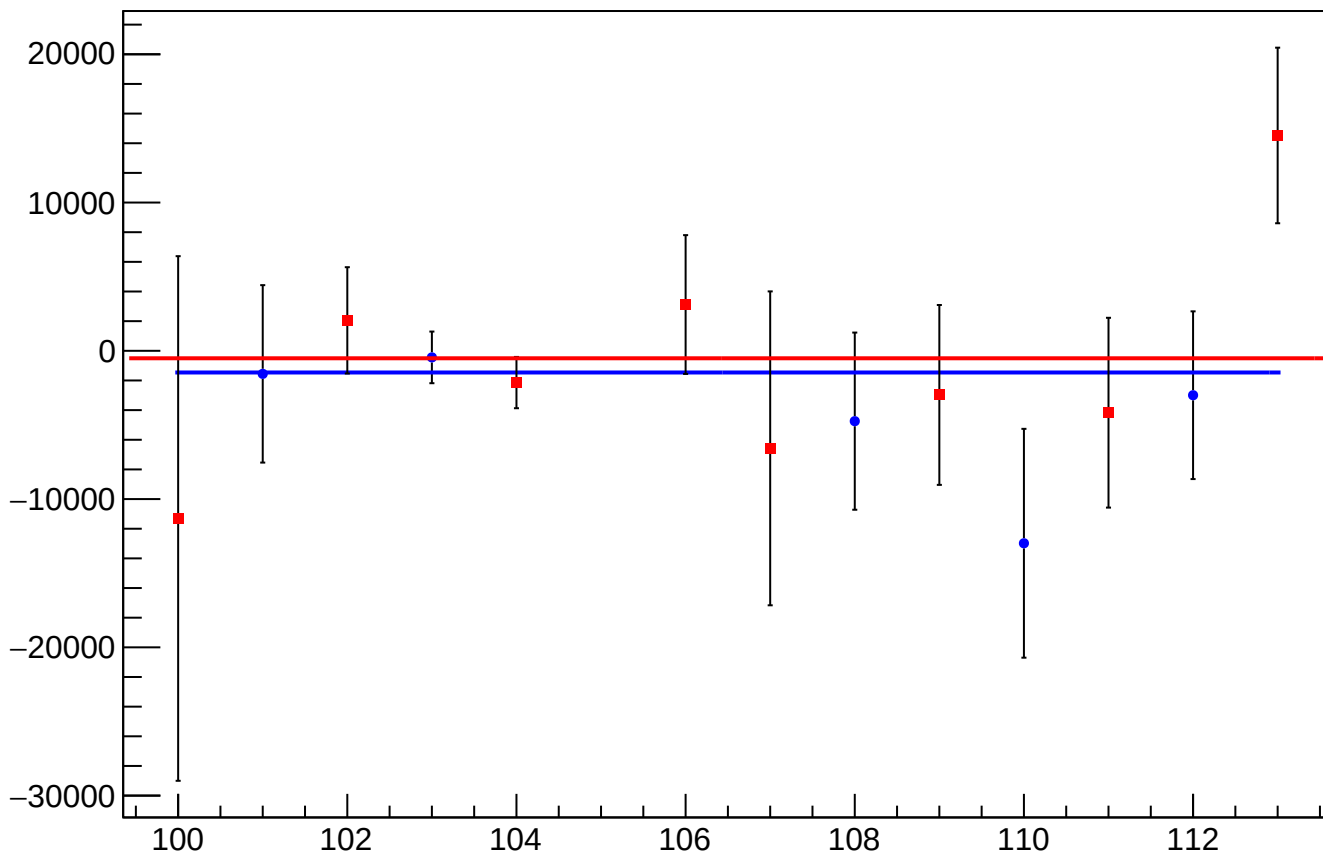
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1363.764 $\pm$ 0.421  $\chi^2$ /NDF: 606885.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_cor\_correction\_mean vs Slug



Right In: -1461.956+/-1518.463  $\chi^2/\text{NDF}$ : 2.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -503.732+/-1348.596  $\chi^2/\text{NDF}$ : 9.6/7

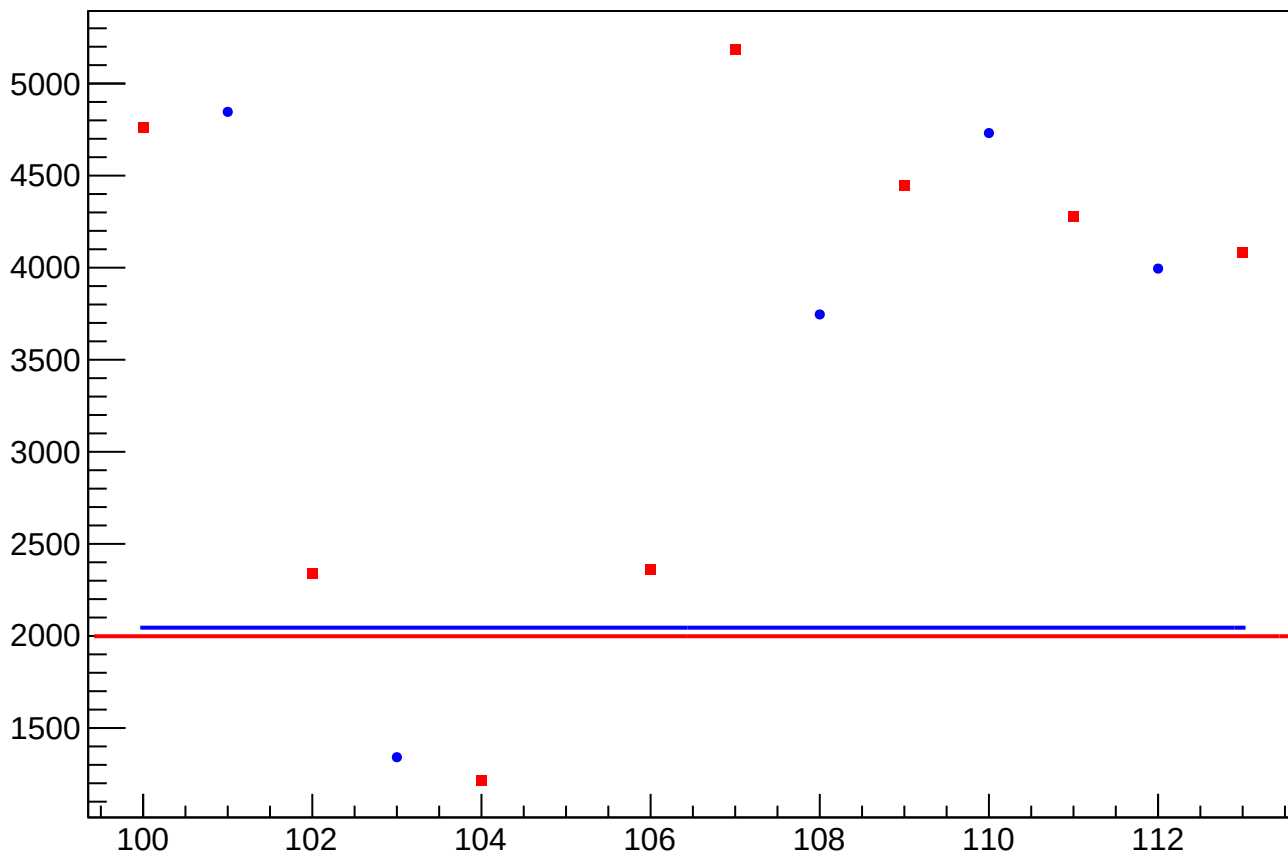
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -926.270+/-1008.332  $\chi^2/\text{NDF}$ : 12.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_cor\_correction\_rms vs Slug



Right In: 2044.957+/-1.074  $\chi^2/\text{NDF}$ : 1406784.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1998.459+/-0.954  $\chi^2/\text{NDF}$ : 1497836.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

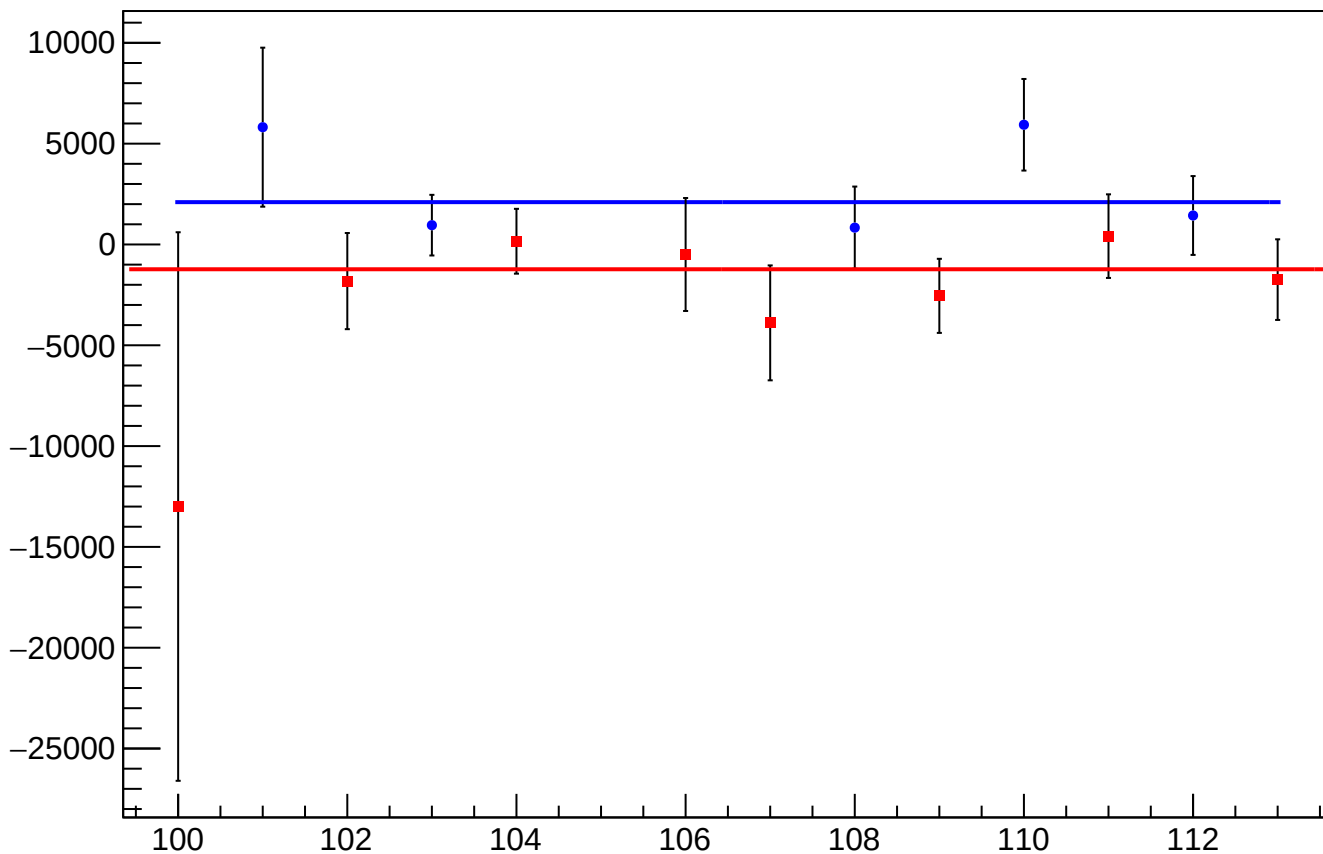
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2018.963+/-0.713  $\chi^2/\text{NDF}$ : 2905668.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2098.980+/-911.736  $\chi^2/\text{NDF}$ : 4.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1229.810+/-791.096  $\chi^2/\text{NDF}$ : 3.7/7

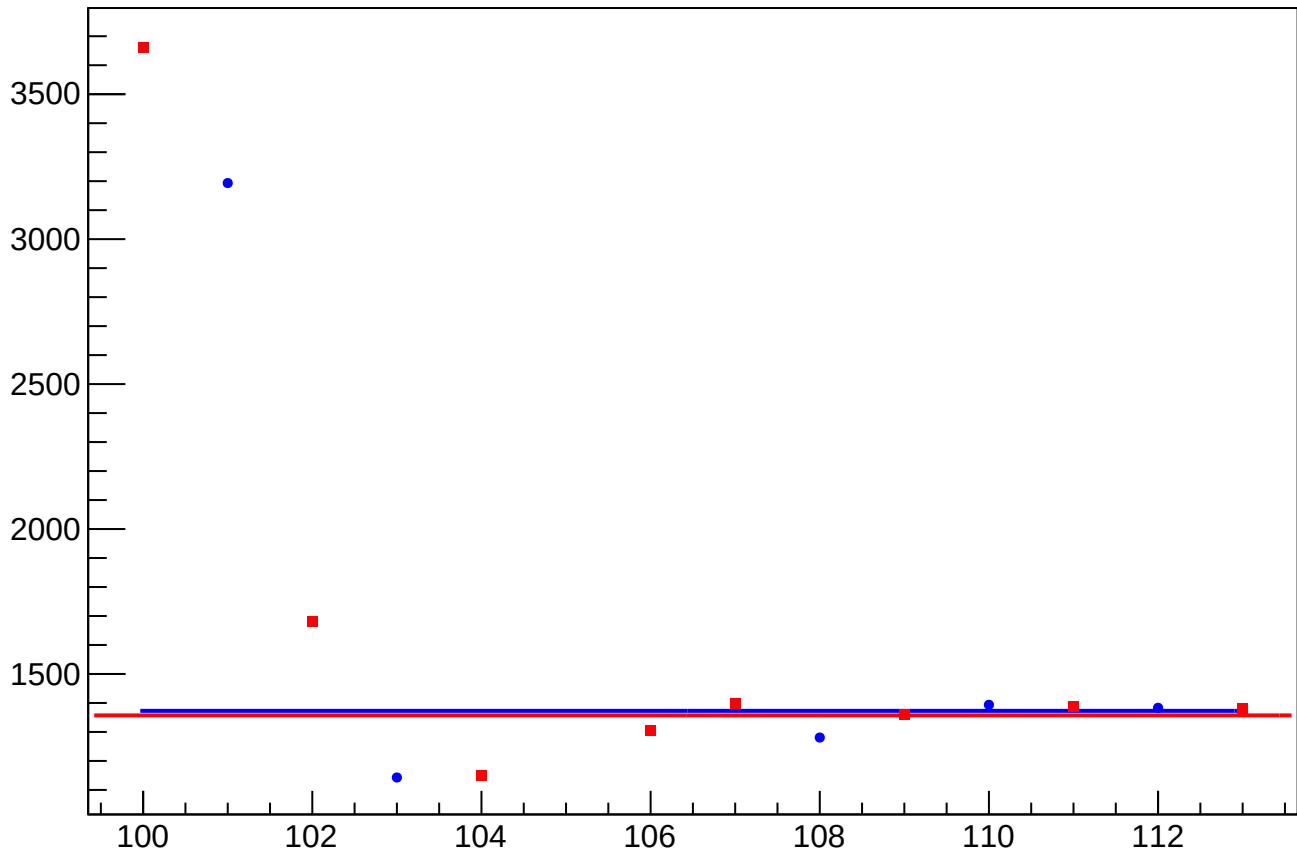
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 199.927+/-597.522  $\chi^2/\text{NDF}$ : 16.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 1372.795 $\pm$ 0.645  $\chi^2$ /NDF: 477428.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1357.030 $\pm$ 0.557  $\chi^2$ /NDF: 129115.1/7

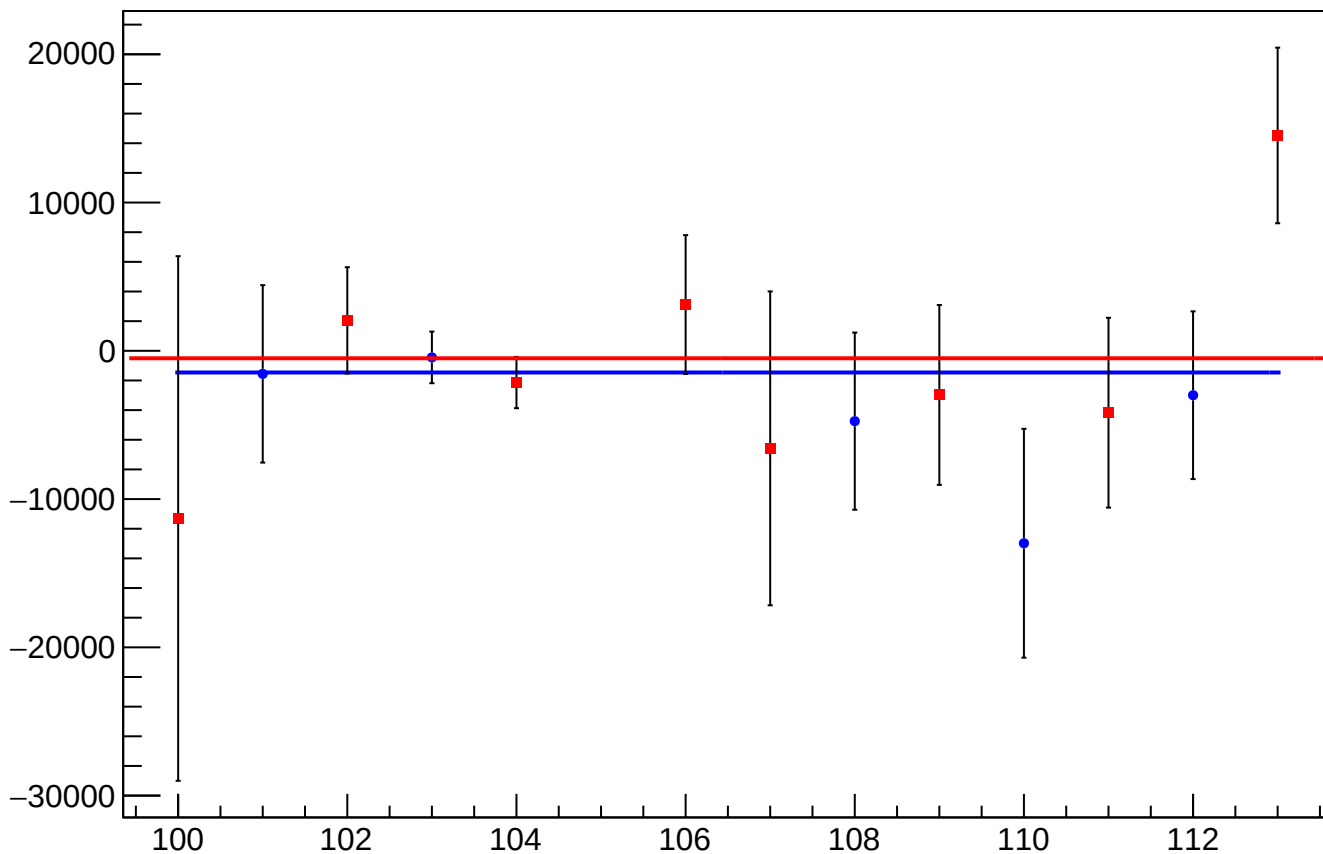
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1363.764 $\pm$ 0.421  $\chi^2$ /NDF: 606885.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -1461.956+/-1518.463  $\chi^2/\text{NDF}$ : 2.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -503.732+/-1348.596  $\chi^2/\text{NDF}$ : 9.6/7

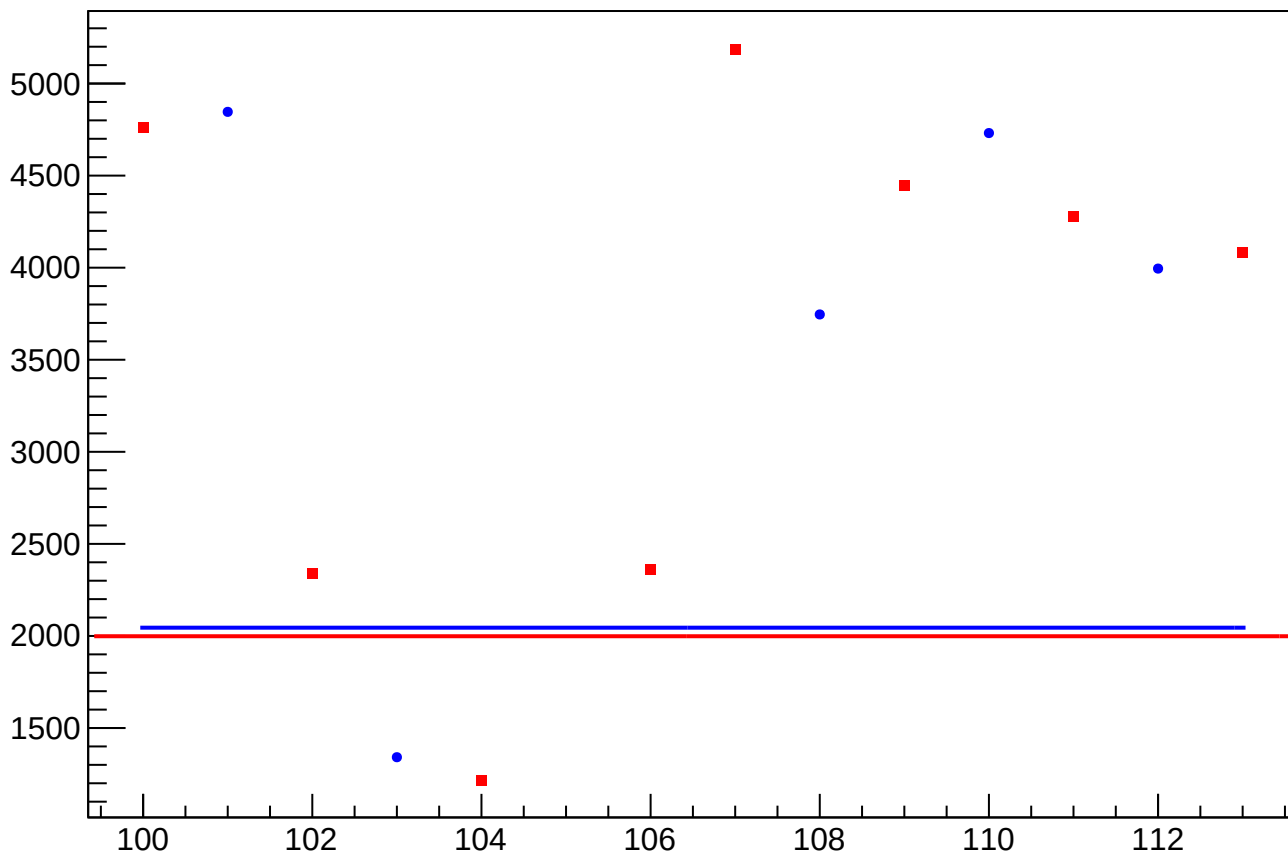
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -926.270+/-1008.332  $\chi^2/\text{NDF}$ : 12.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 2044.957+/-1.074  $\chi^2/\text{NDF}$ : 1406784.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1998.459+/-0.954  $\chi^2/\text{NDF}$ : 1497836.3/7

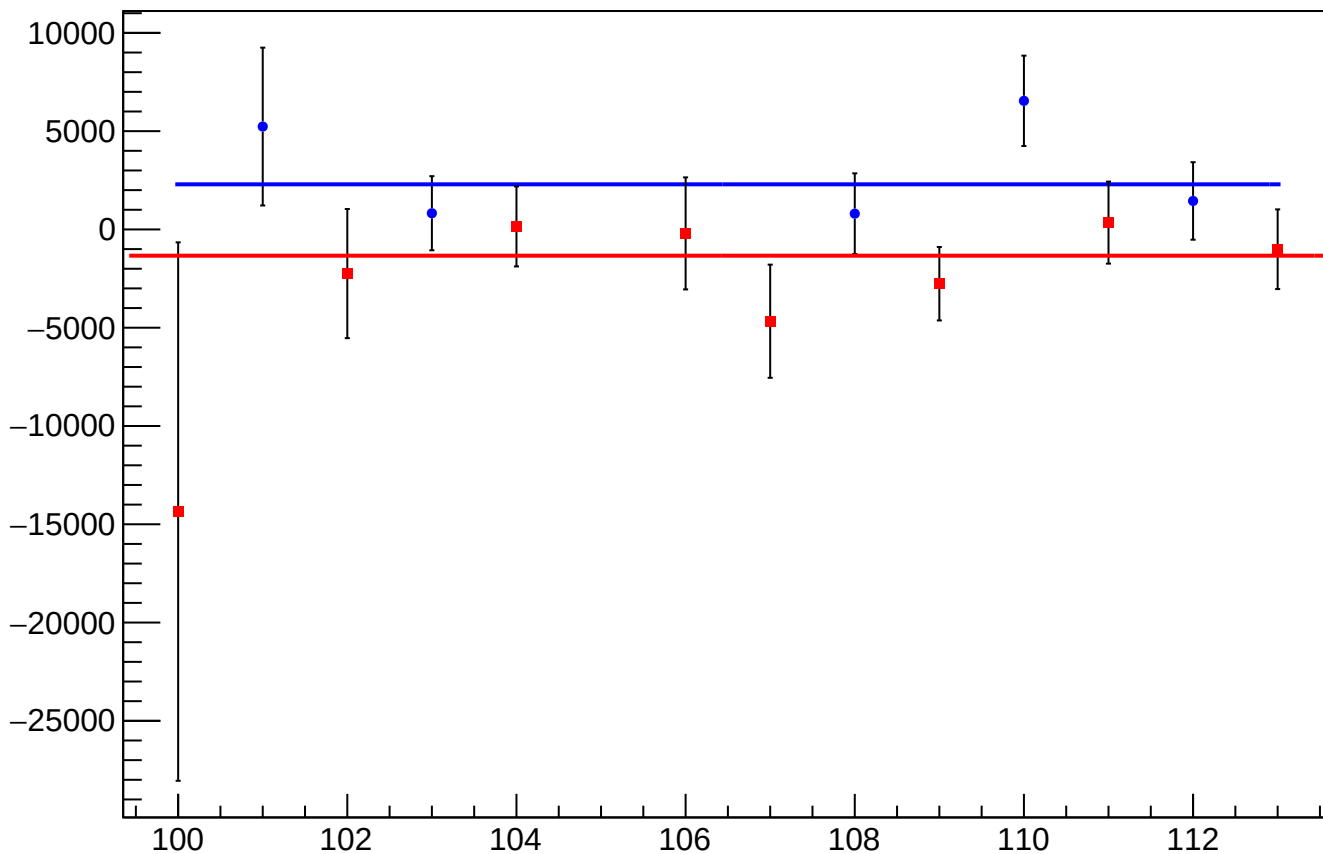
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2018.963+/-0.713  $\chi^2/\text{NDF}$ : 2905668.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2295.276+/-986.277  $\chi^2/\text{NDF}$ : 5.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1335.154+/-863.080  $\chi^2/\text{NDF}$ : 4.3/7

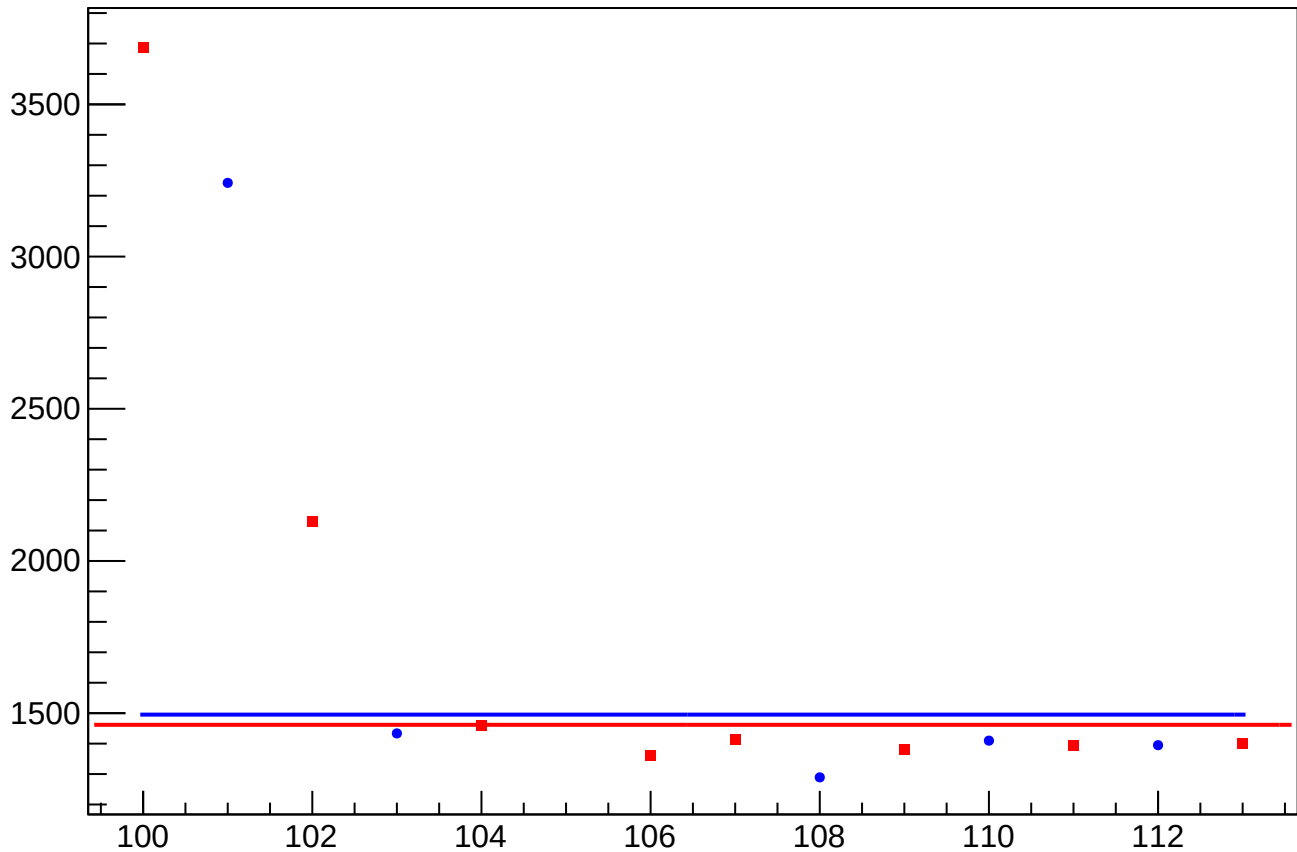
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 239.283+/-649.505  $\chi^2/\text{NDF}$ : 17.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 1495.259 $\pm$ 0.697  $\chi^2$ /NDF: 409141.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1461.759 $\pm$ 0.609  $\chi^2$ /NDF: 146865.0/7

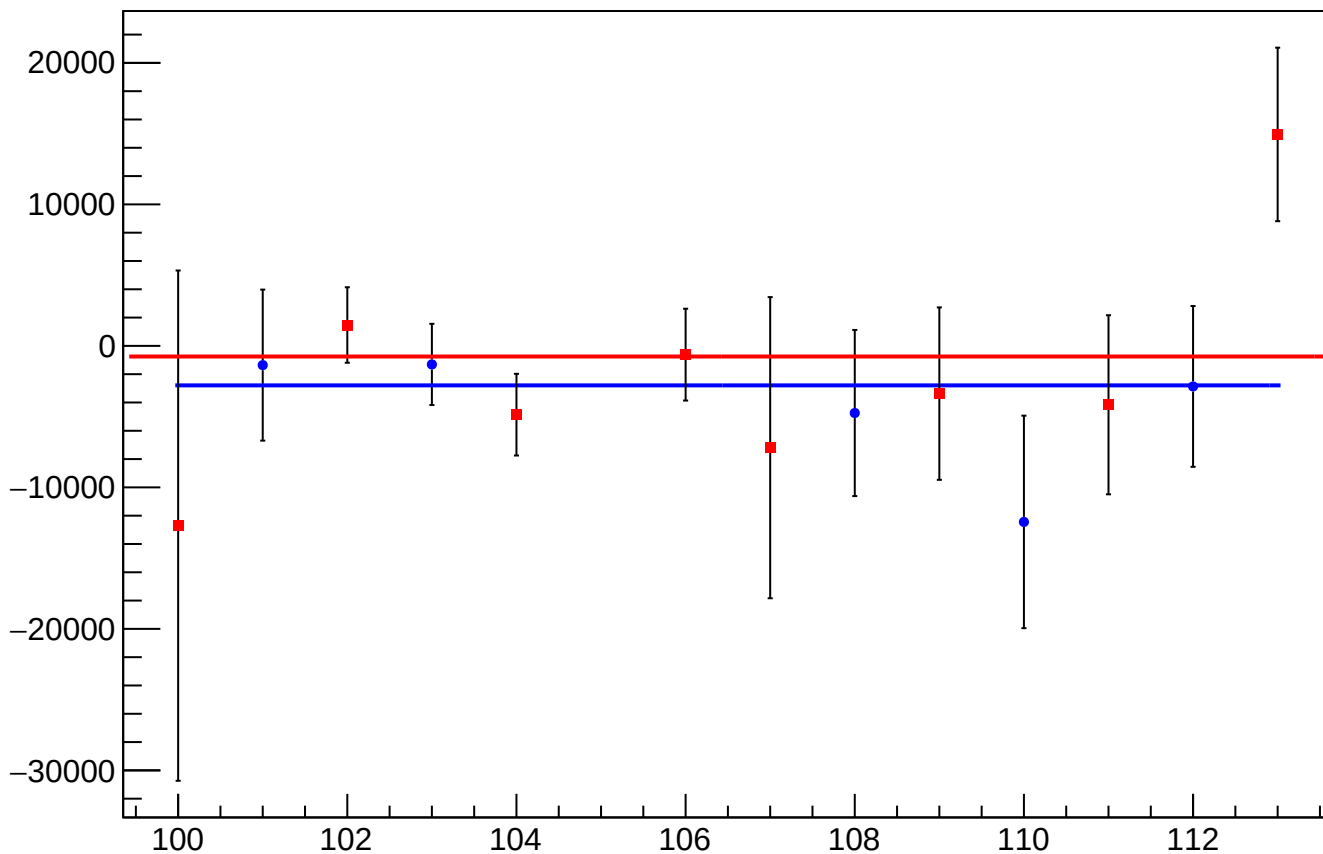
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1476.257 $\pm$ 0.459  $\chi^2$ /NDF: 557314.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_dit\_correction\_mean vs Slug



Right In: -2791.174+/-2065.949  $\chi^2/\text{NDF}$ : 2.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -750.746+/-1497.525  $\chi^2/\text{NDF}$ : 10.6/7

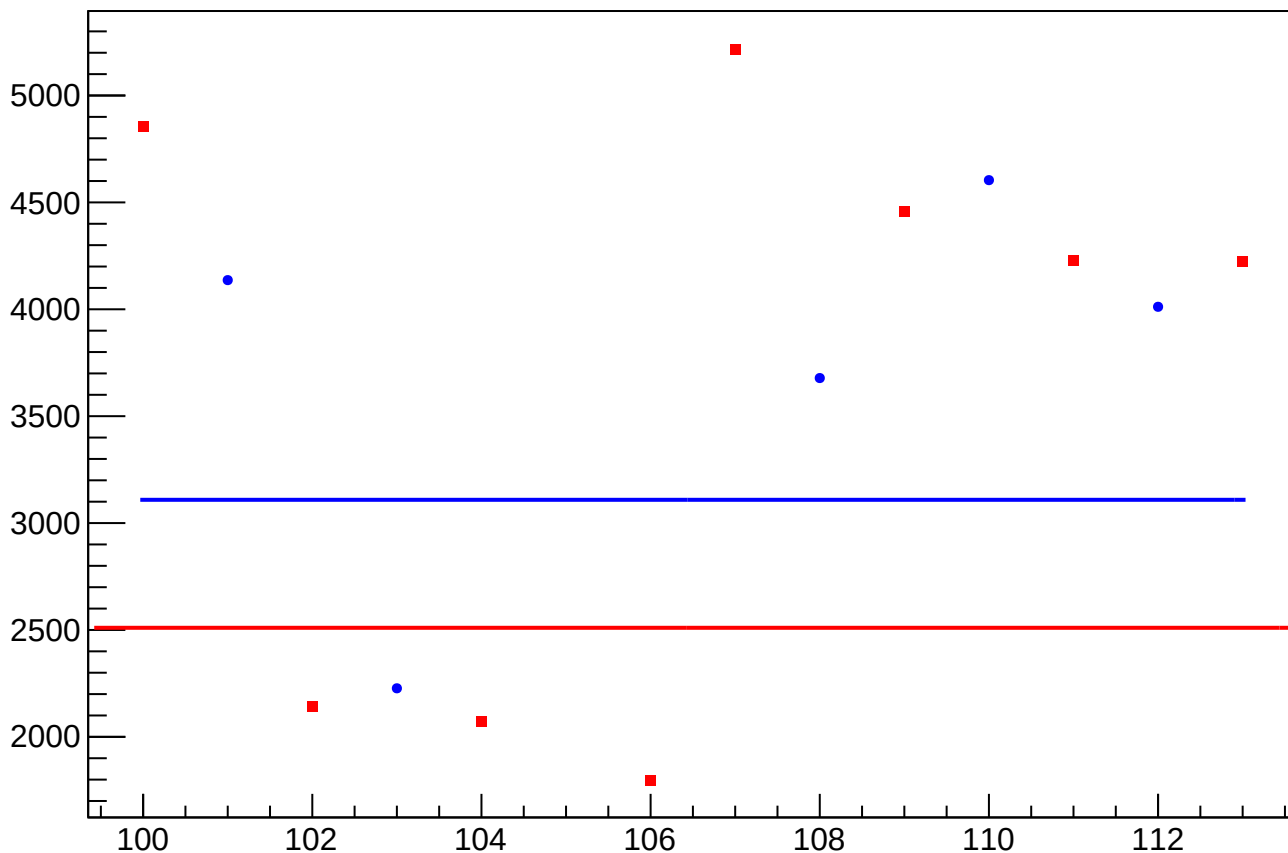
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1453.559+/-1212.492  $\chi^2/\text{NDF}$ : 13.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_dit\_correction\_rms vs Slug



Right In: 3108.827+/-1.461  $\chi^2/\text{NDF}$ : 411641.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2510.163+/-1.059  $\chi^2/\text{NDF}$ : 851070.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

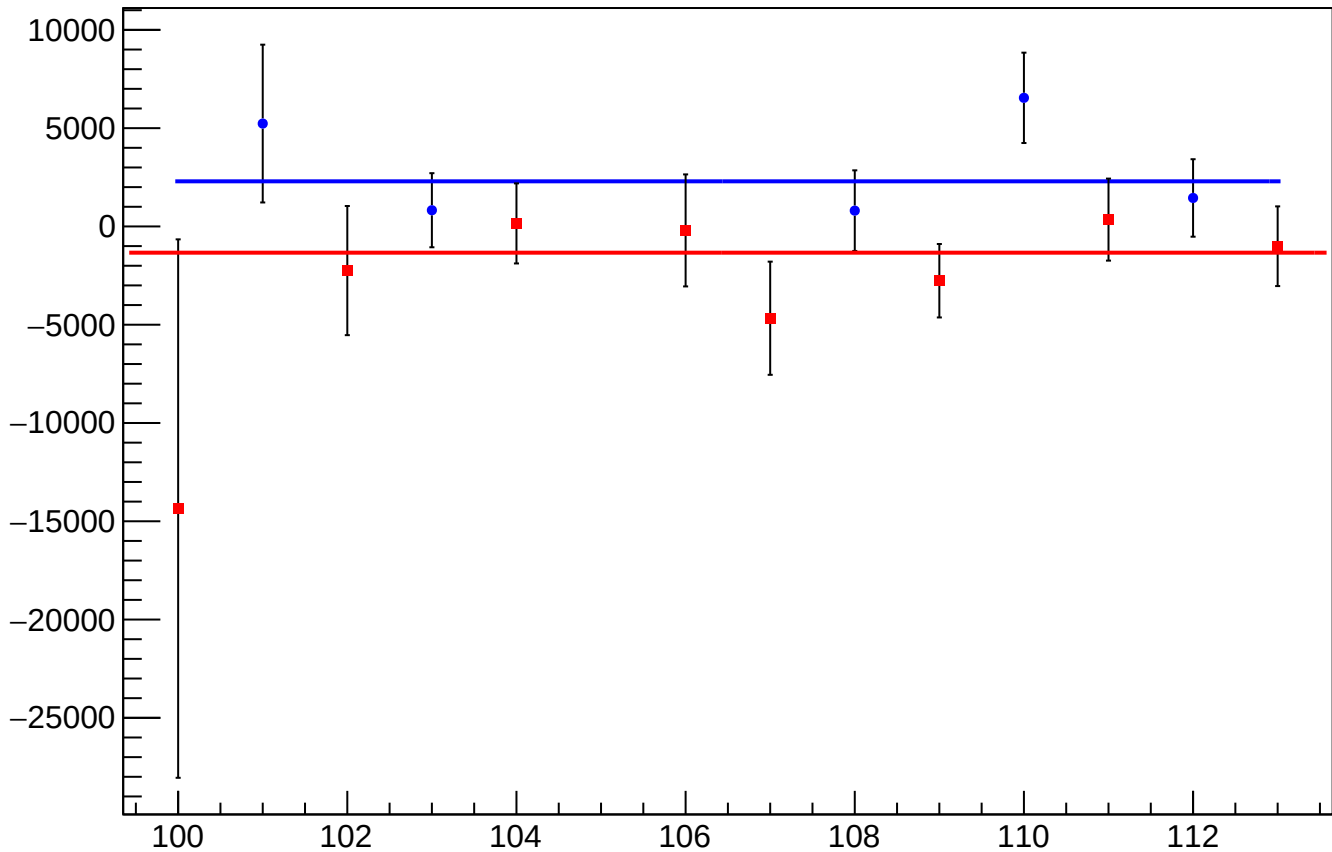
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2716.369+/-0.857  $\chi^2/\text{NDF}$ : 1372807.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2295.281+/-986.277  $\chi^2/\text{NDF}$ : 5.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1335.157+/-863.079  $\chi^2/\text{NDF}$ : 4.3/7

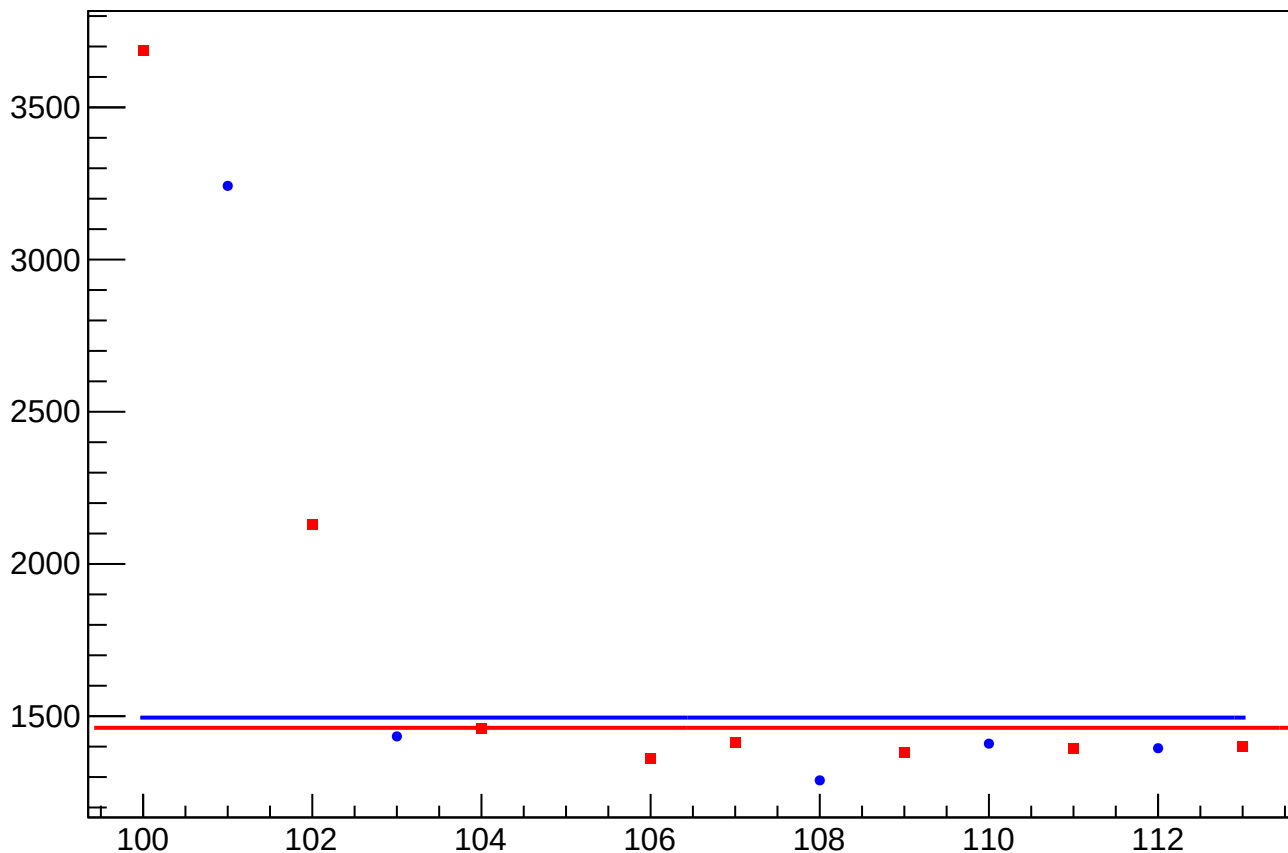
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 239.284+/-649.505  $\chi^2/\text{NDF}$ : 17.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 1495.259+/-0.697  $\chi^2/\text{NDF}$ : 409141.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1461.758+/-0.609  $\chi^2/\text{NDF}$ : 146864.2/7

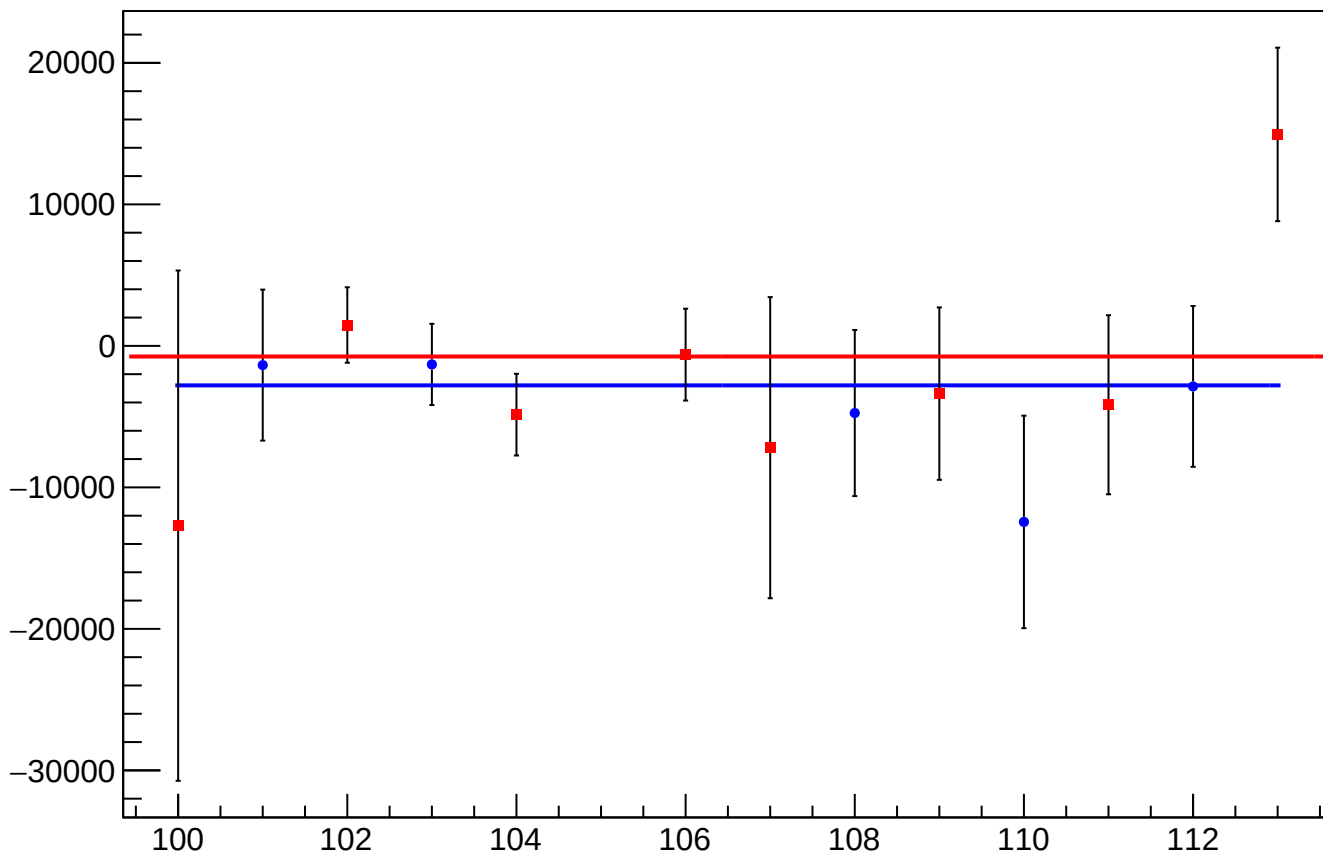
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1476.257+/-0.459  $\chi^2/\text{NDF}$ : 557314.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -2791.172+/-2065.945  $\chi^2/\text{NDF}$ : 2.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -750.746+/-1497.521  $\chi^2/\text{NDF}$ : 10.6/7

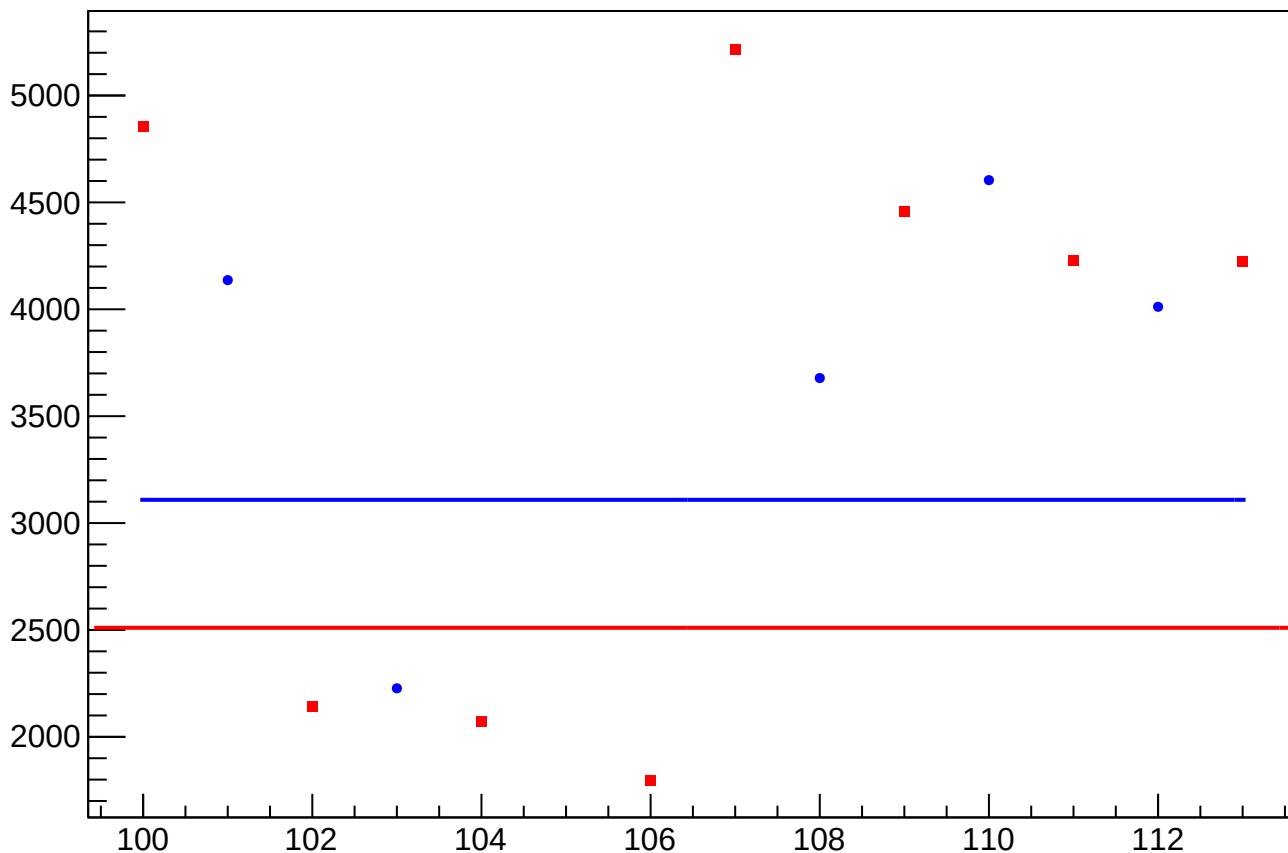
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1453.558+/-1212.489  $\chi^2/\text{NDF}$ : 13.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 3108.821+/-1.461  $\chi^2/\text{NDF}$ : 411641.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2510.156+/-1.059  $\chi^2/\text{NDF}$ : 851072.7/7

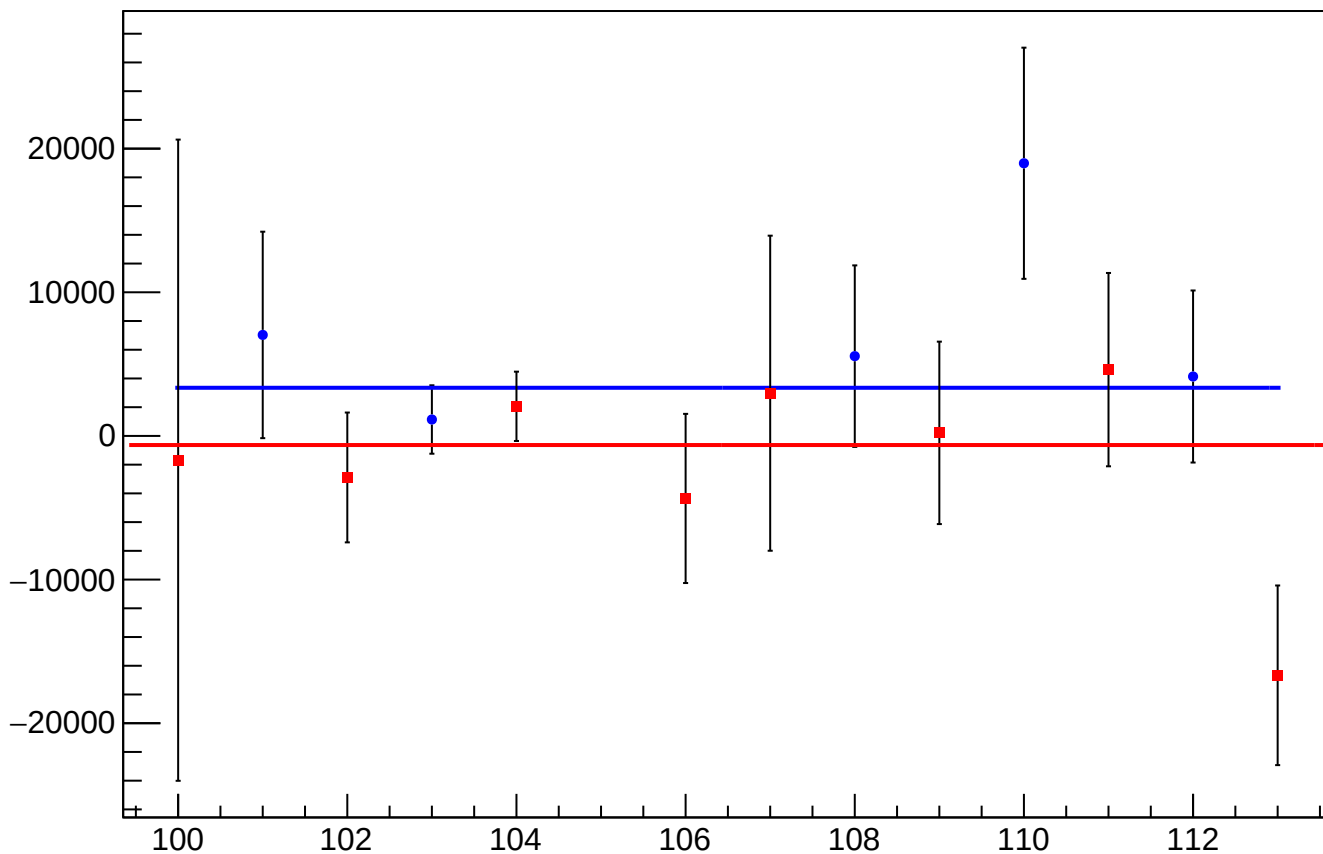
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2716.362+/-0.857  $\chi^2/\text{NDF}$ : 1372809.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 3352.479+/-1945.879  $\chi^2$ /NDF: 5.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -634.091+/-1734.581  $\chi^2$ /NDF: 9.2/7

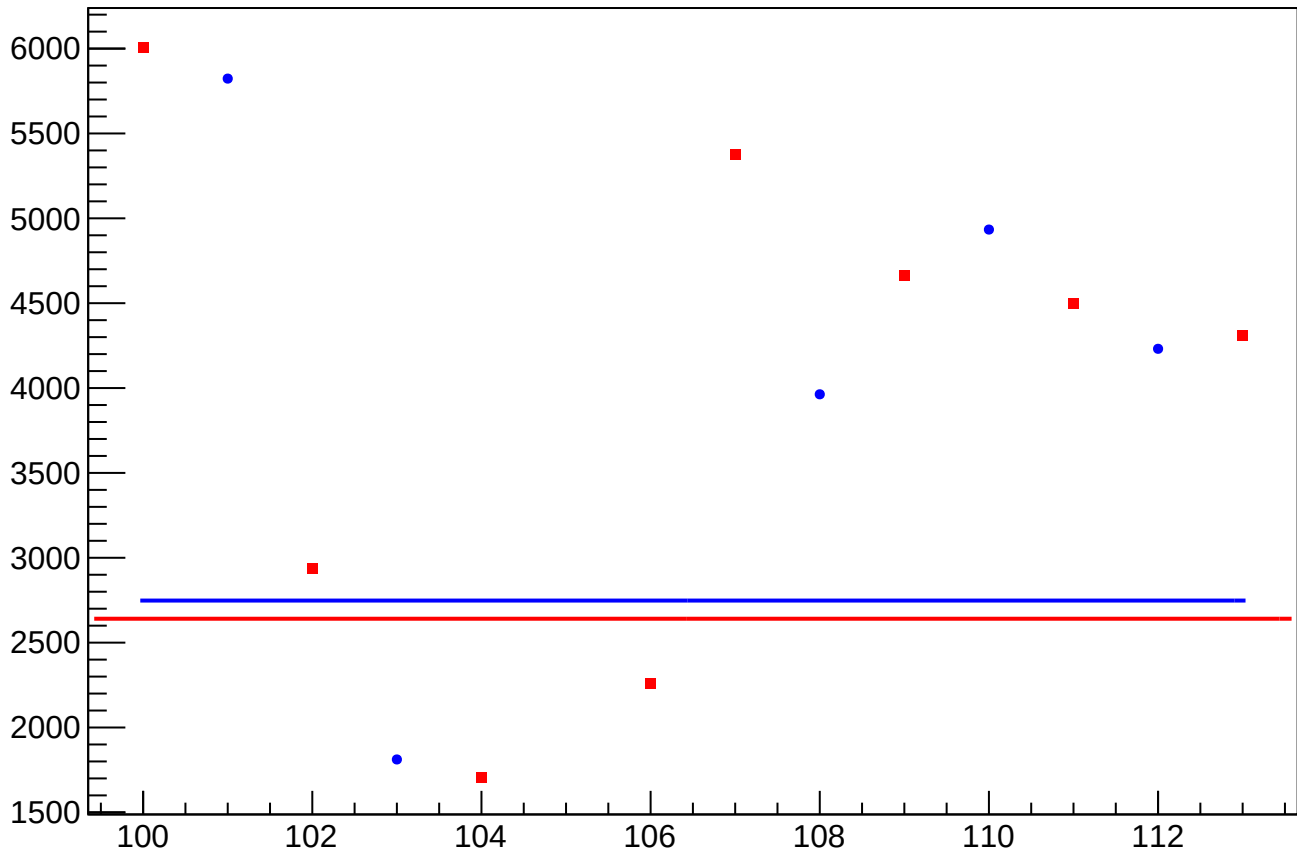
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 1131.073+/-1294.818  $\chi^2$ /NDF: 16.6/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 2747.921+/-1.376  $\chi^2/\text{NDF}$ : 1019660.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2640.865+/-1.199  $\chi^2/\text{NDF}$ : 989251.9/7

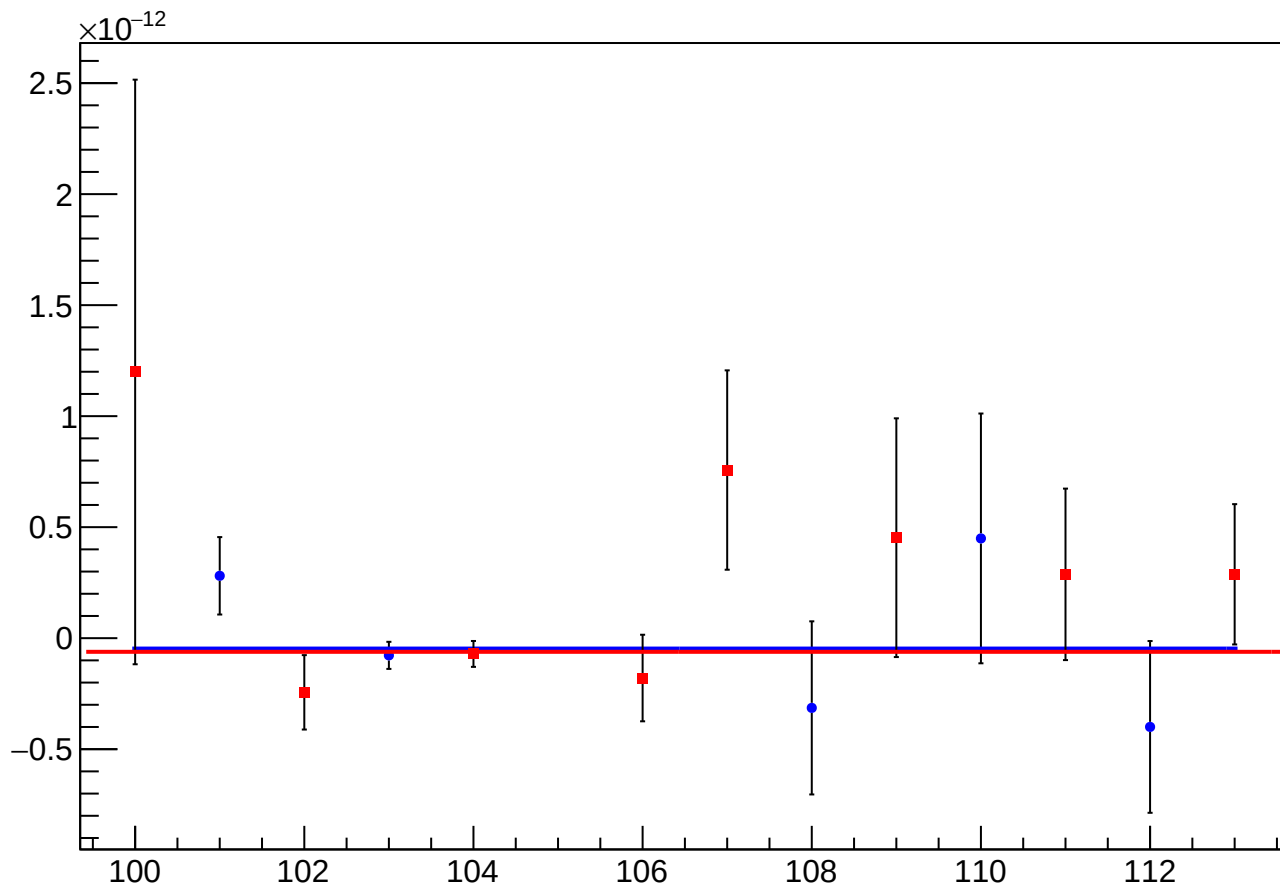
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2687.059+/-0.904  $\chi^2/\text{NDF}$ : 2012353.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 5.9/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 8.8/7

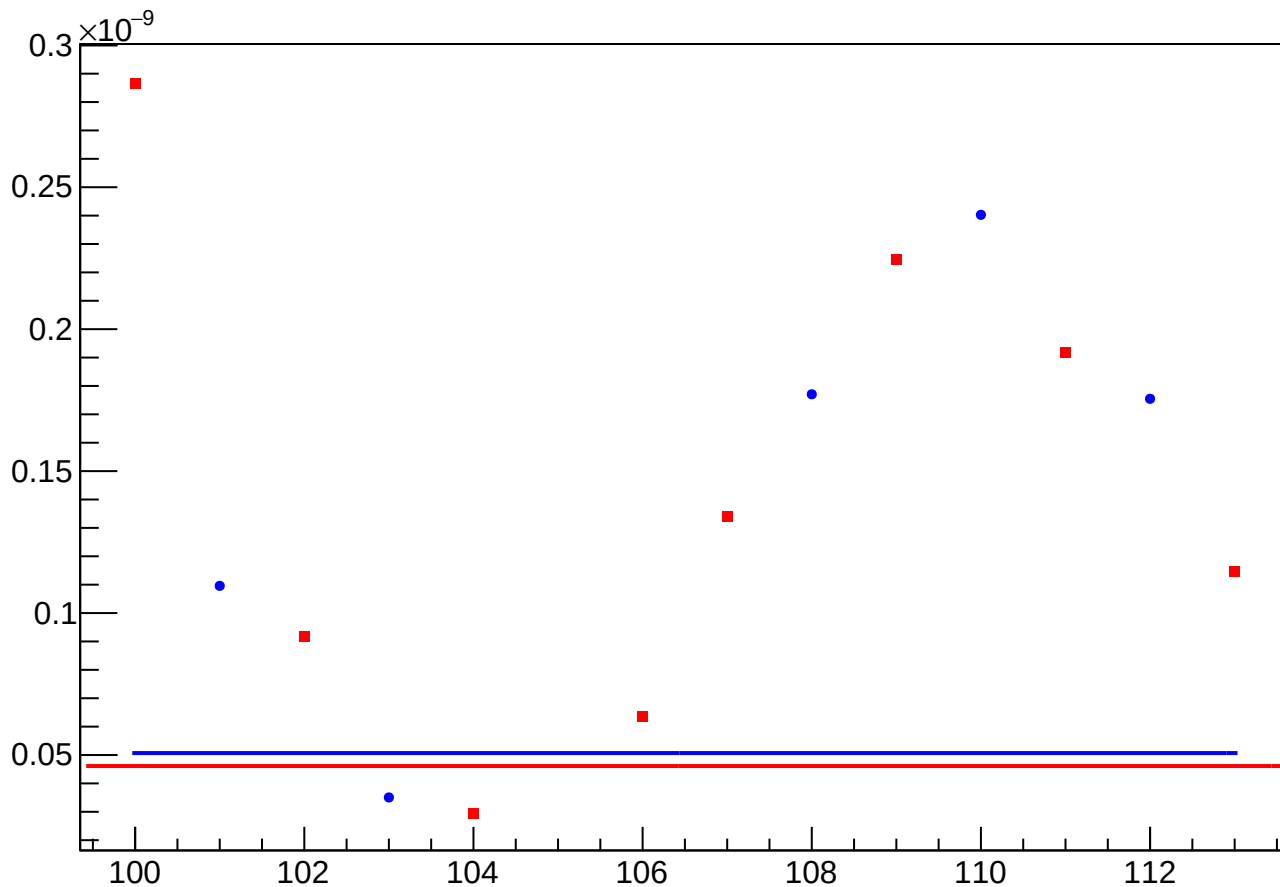
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 14.7/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1005074.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1071379.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

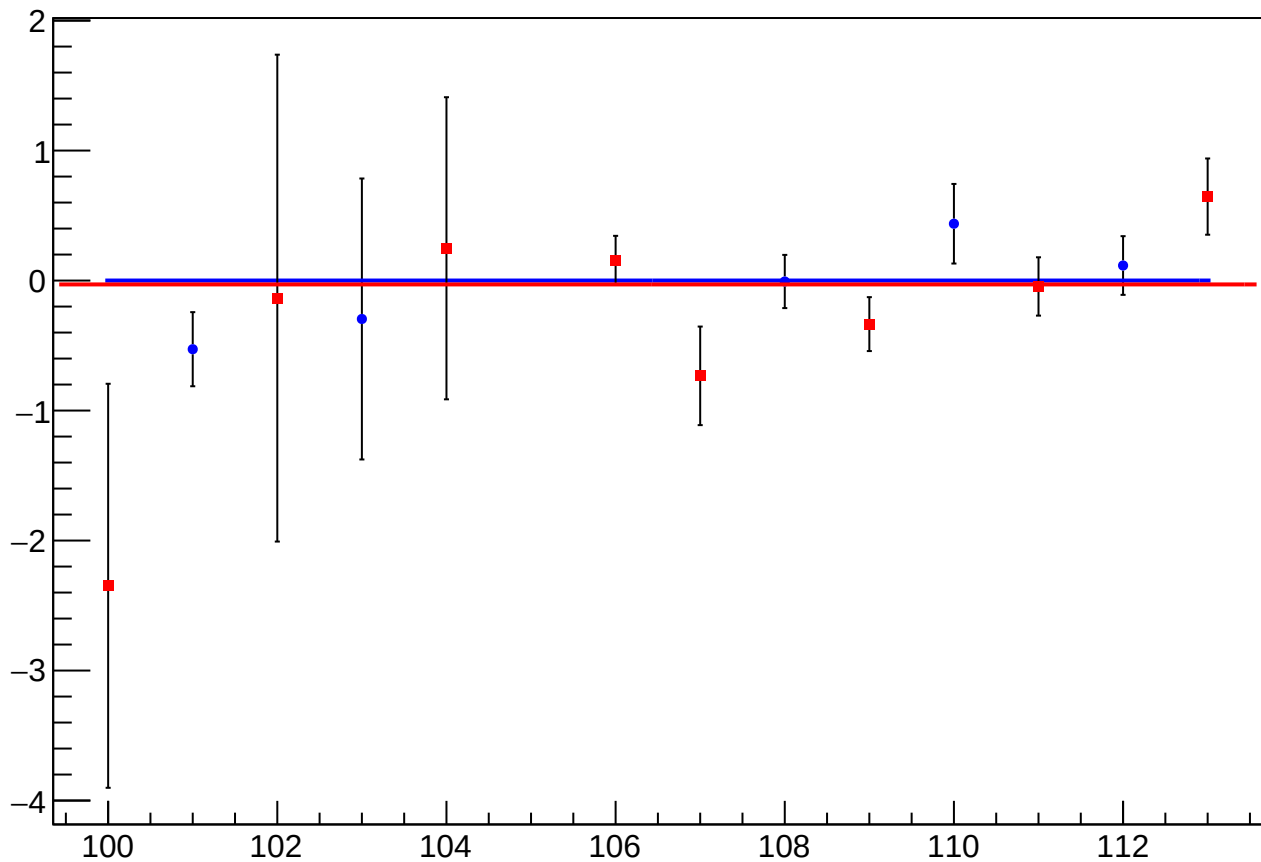
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2083695.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl\_avg\_atr\_avg\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.122  $\chi^2$ /NDF: 5.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.030 $\pm$ 0.105  $\chi^2$ /NDF: 14.2/7

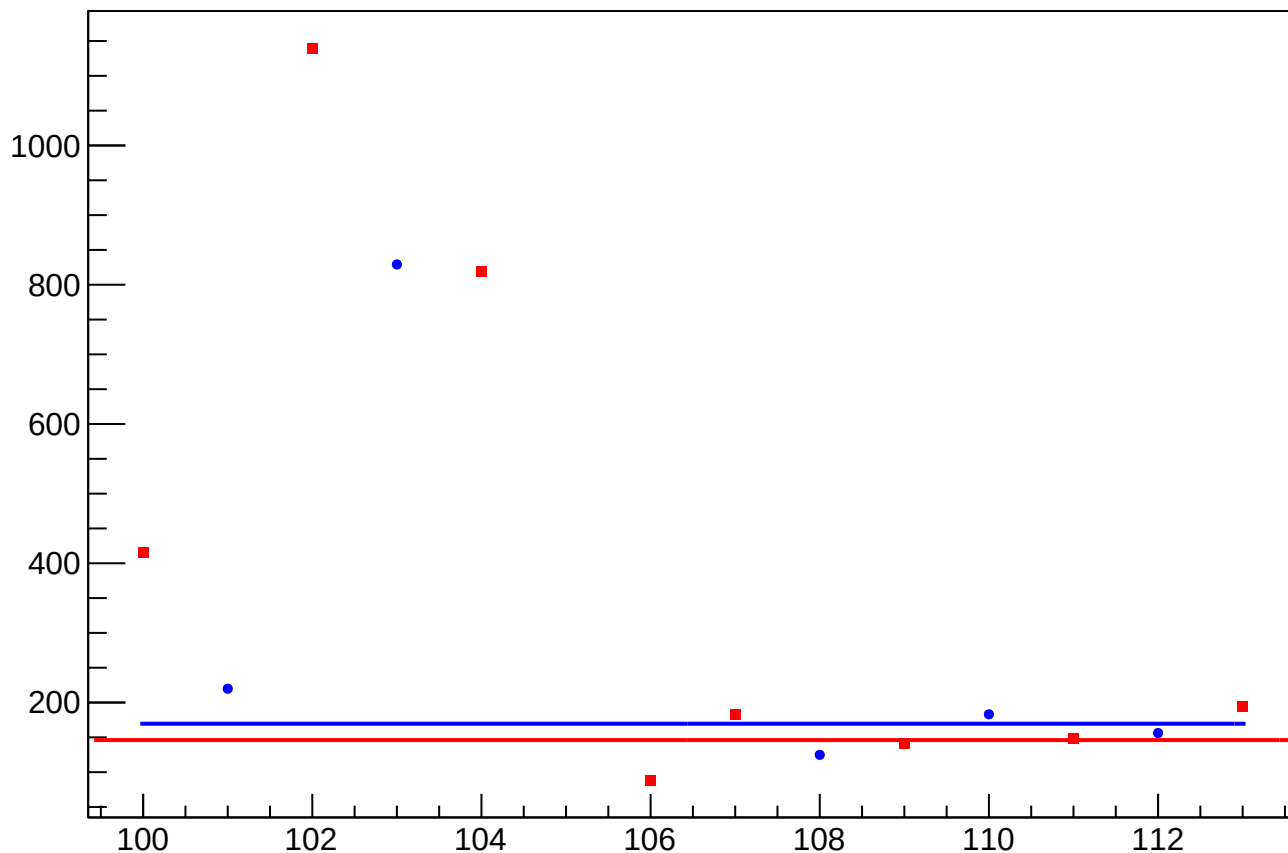
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.079  $\chi^2$ /NDF: 20.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 169.537 $\pm$ 0.086  $\chi^2$ /NDF: 913700.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 146.076 $\pm$ 0.074  $\chi^2$ /NDF: 1558243.7/7

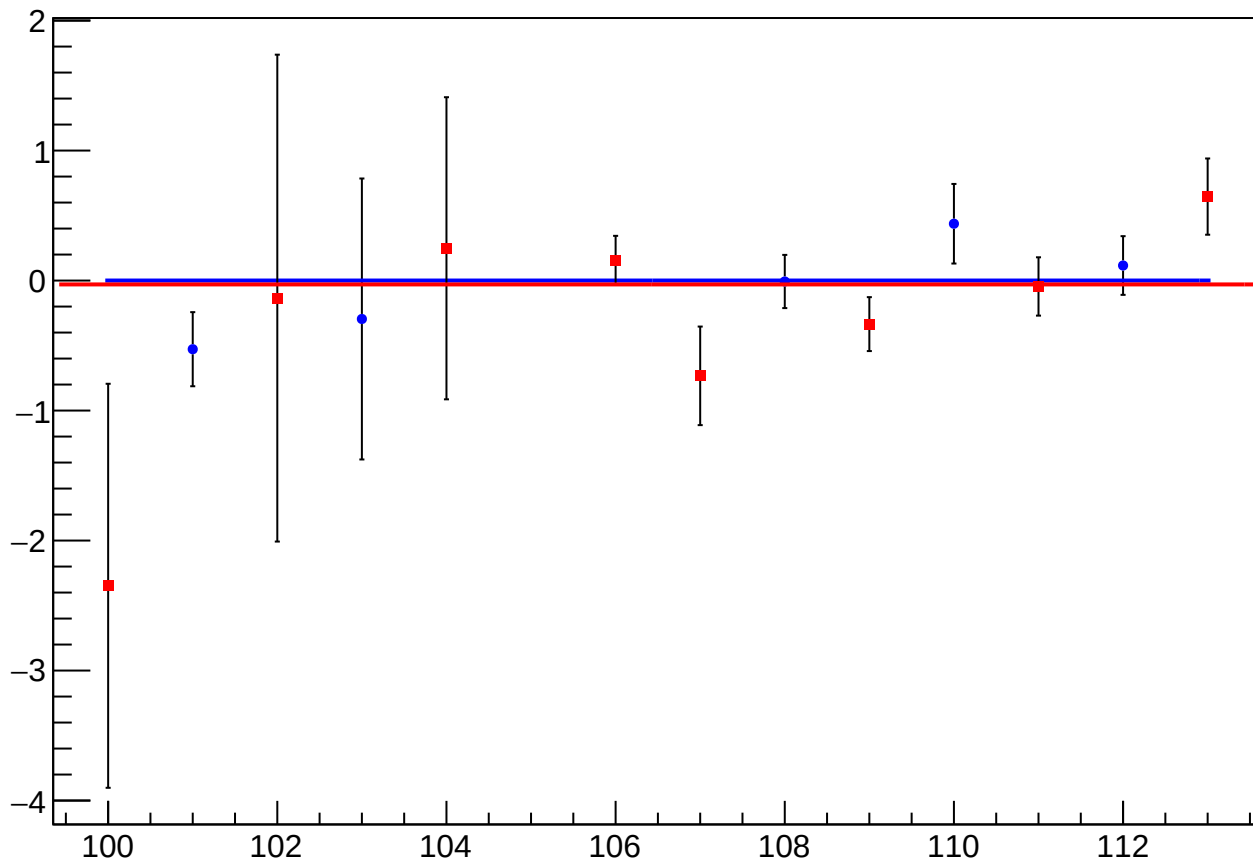
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.032 $\pm$ 0.056  $\chi^2$ /NDF: 2514619.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.122  $\chi^2$ /NDF: 5.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.030 $\pm$ 0.105  $\chi^2$ /NDF: 14.2/7

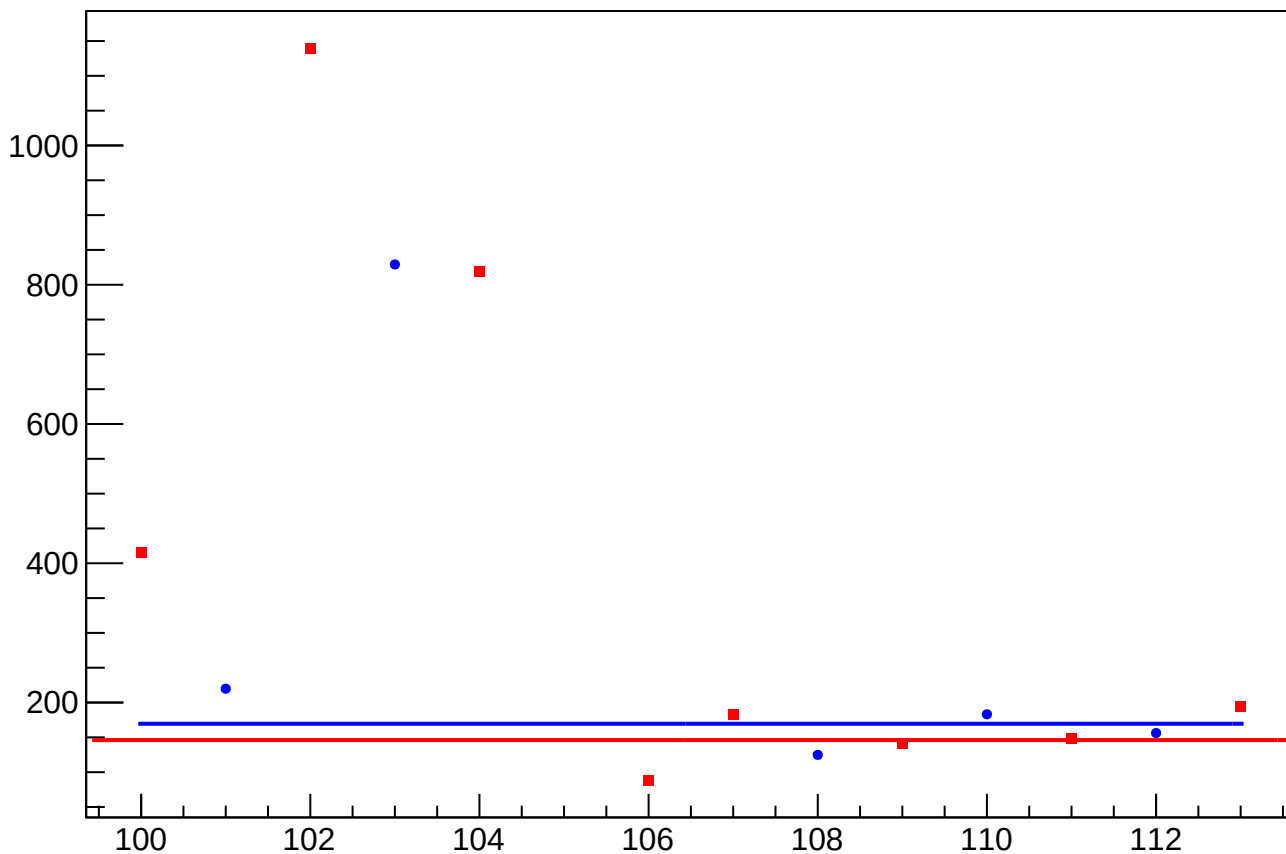
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.079  $\chi^2$ /NDF: 20.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 169.537+/-0.086  $\chi^2/\text{NDF}$ : 913700.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 146.076+/-0.074  $\chi^2/\text{NDF}$ : 1558243.7/7

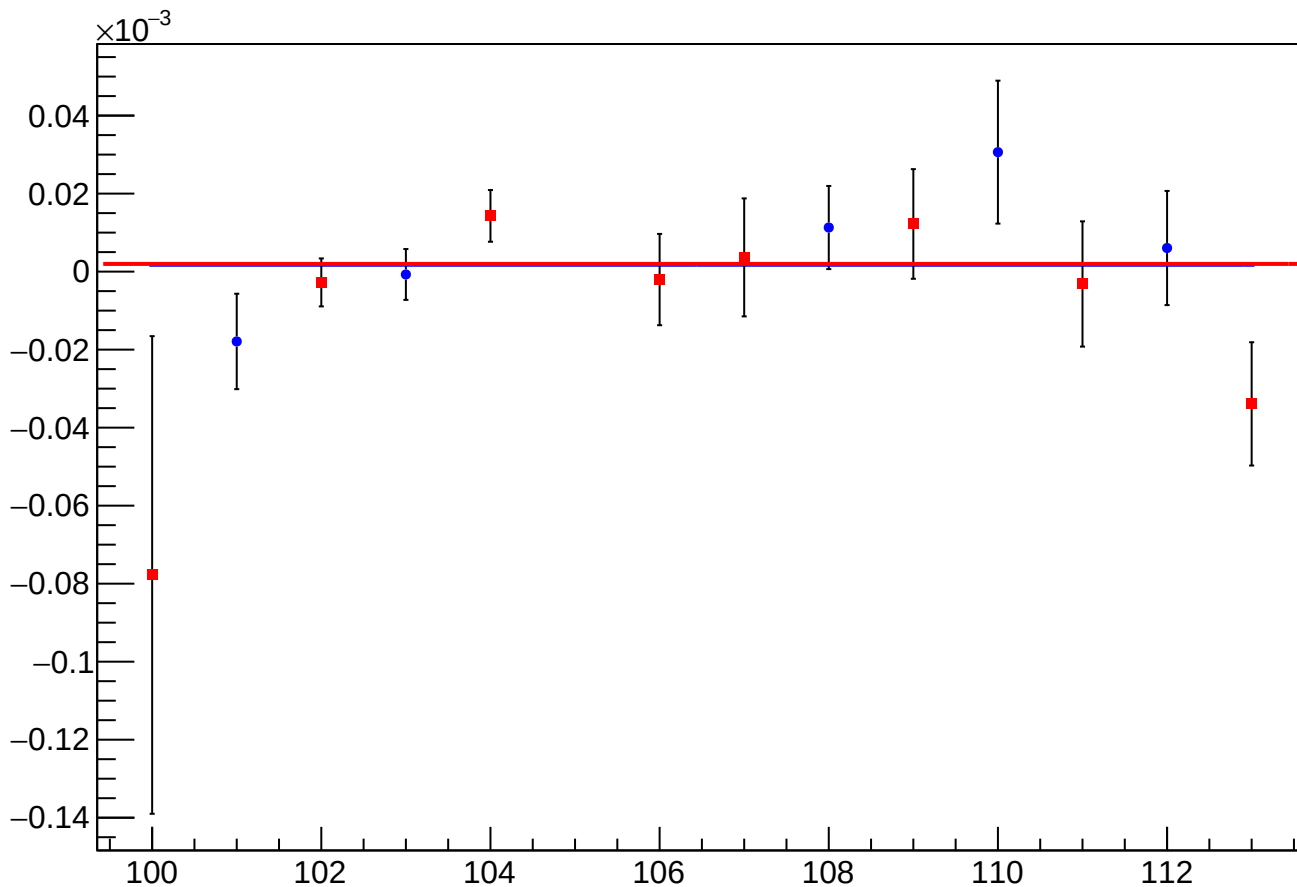
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 156.032+/-0.056  $\chi^2/\text{NDF}$ : 2514619.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 6.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 11.7/7

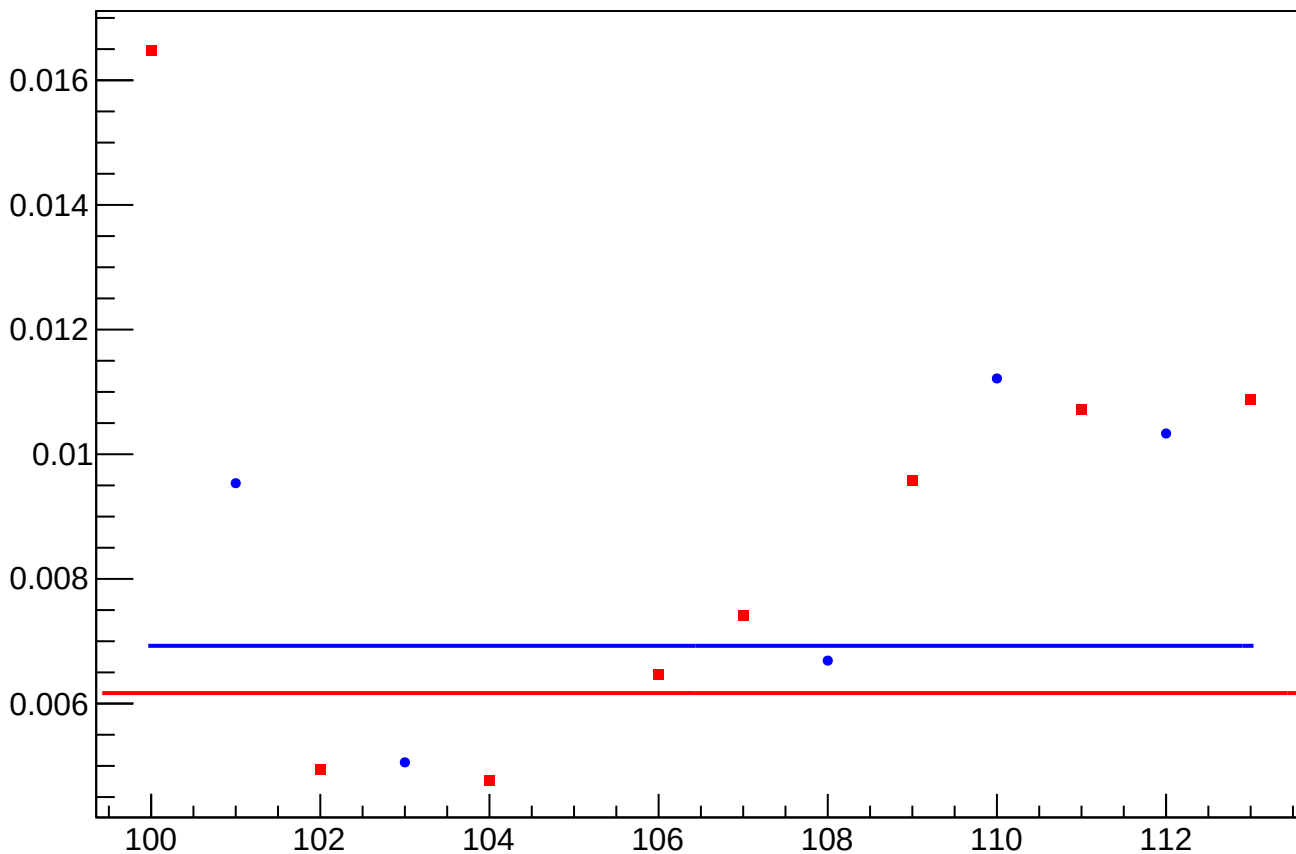
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 17.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 474589.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 696852.0/7

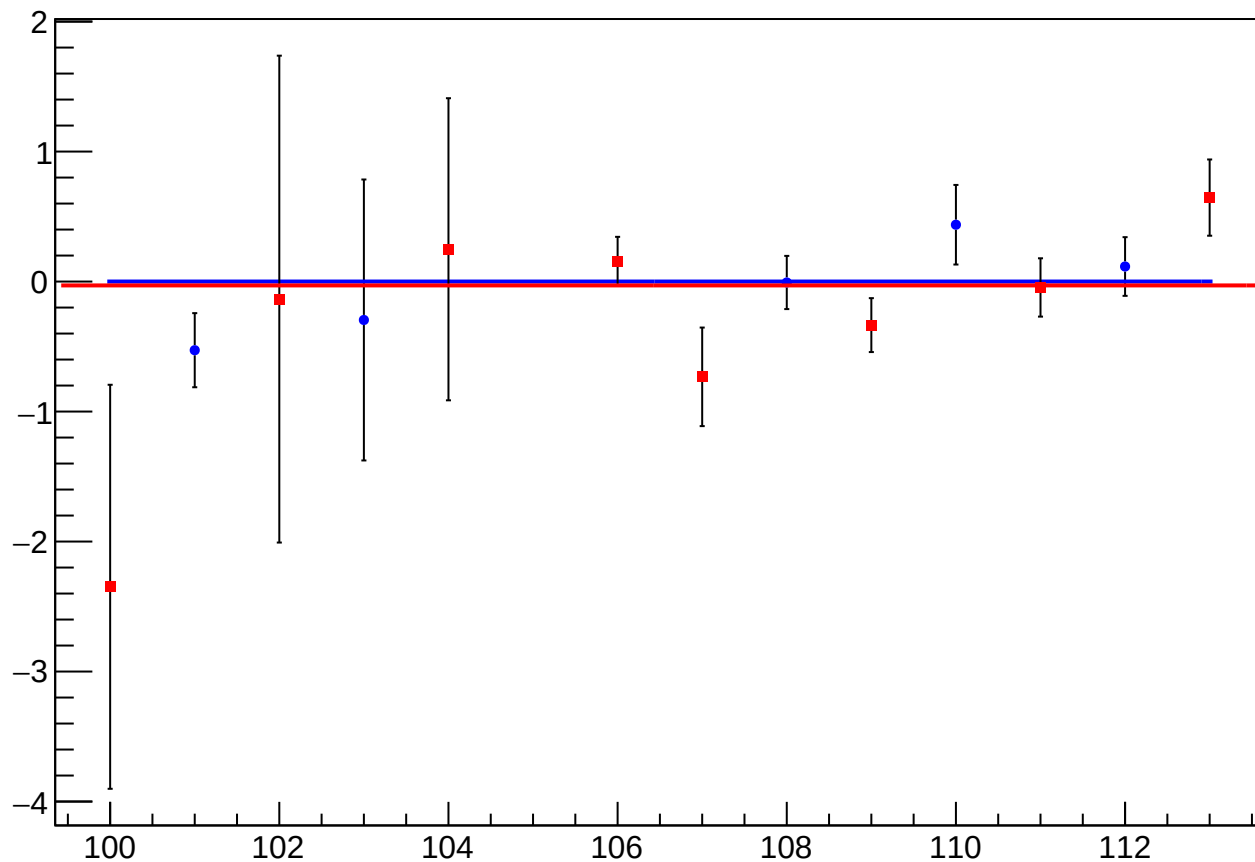
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1204349.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.122  $\chi^2$ /NDF: 5.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.030 $\pm$ 0.105  $\chi^2$ /NDF: 14.2/7

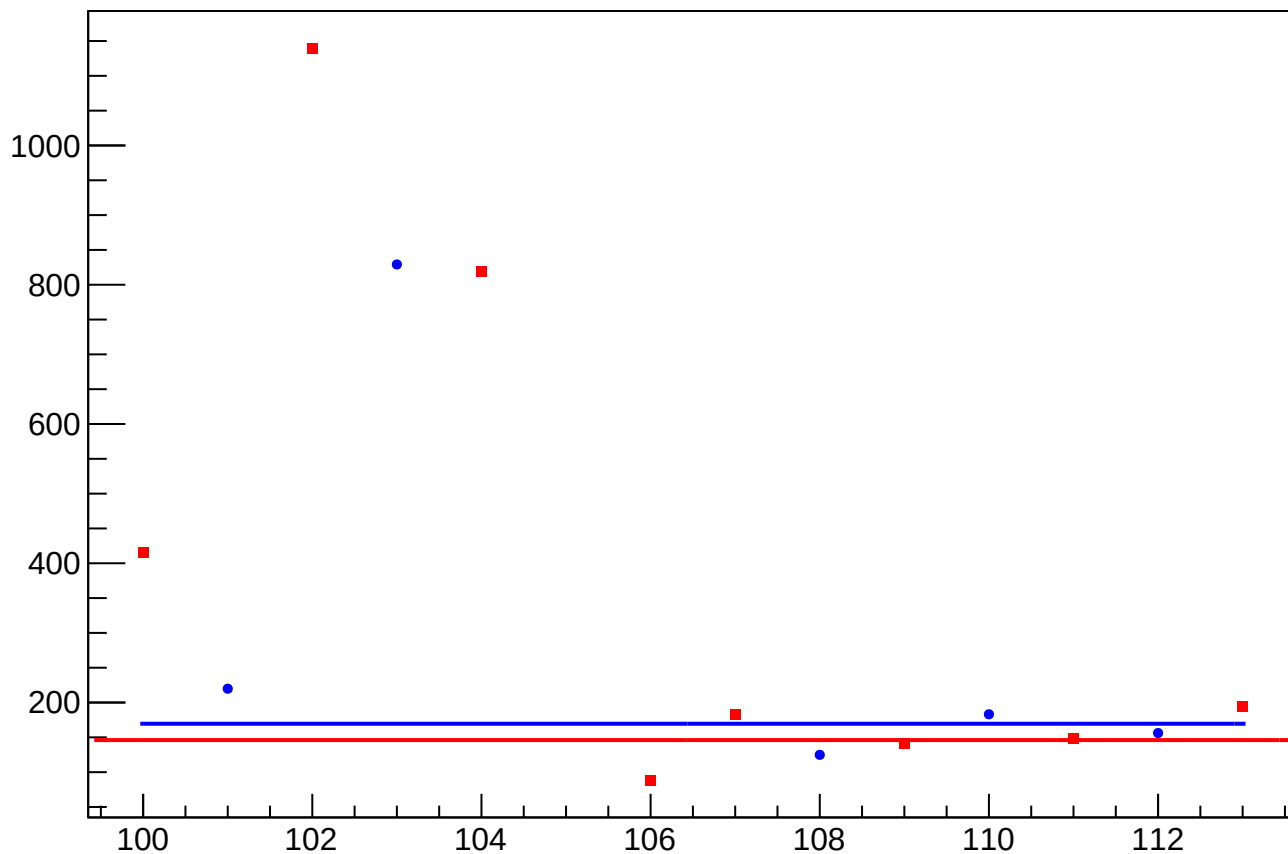
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.079  $\chi^2$ /NDF: 20.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 169.540 $\pm$ 0.086  $\chi^2$ /NDF: 913682.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 146.076 $\pm$ 0.074  $\chi^2$ /NDF: 1558253.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

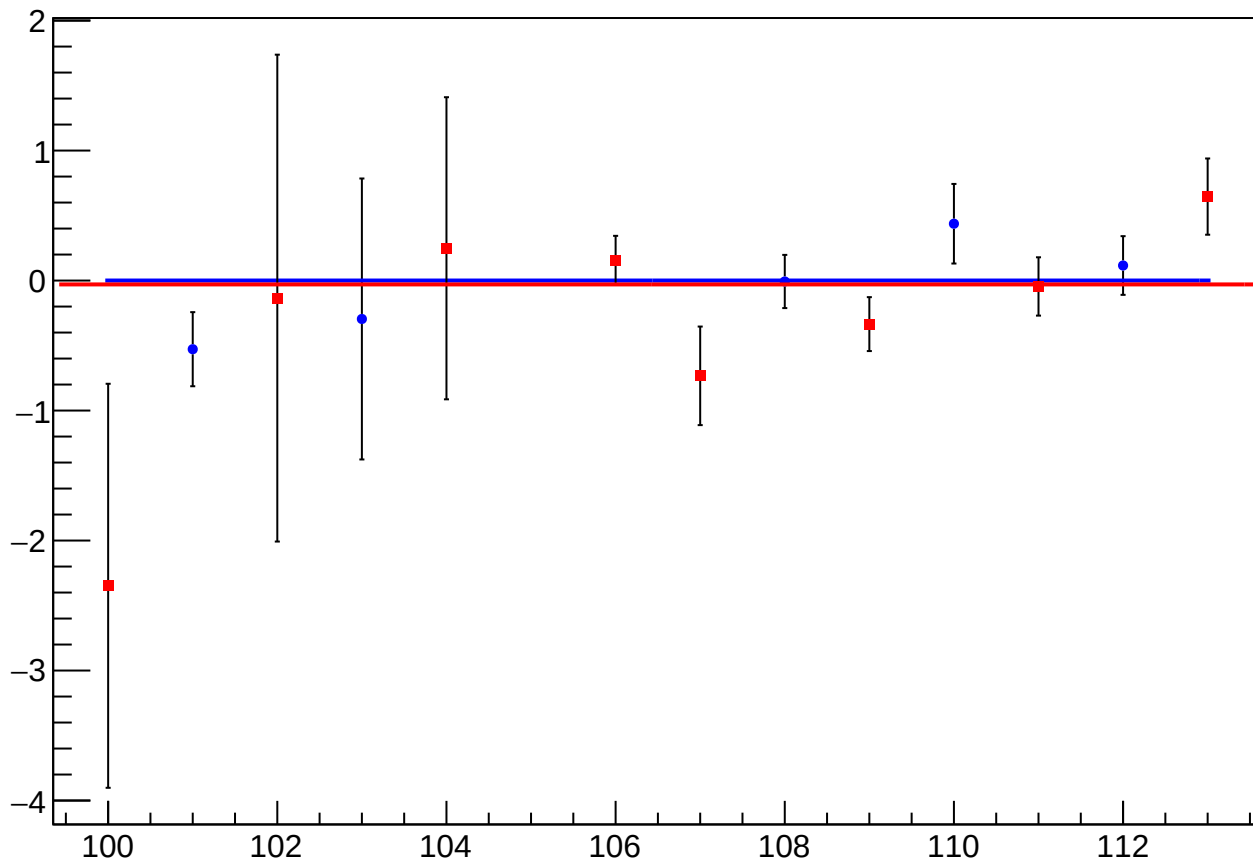
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.032 $\pm$ 0.056  $\chi^2$ /NDF: 2514623.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.122  $\chi^2$ /NDF: 5.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.030 $\pm$ 0.105  $\chi^2$ /NDF: 14.2/7

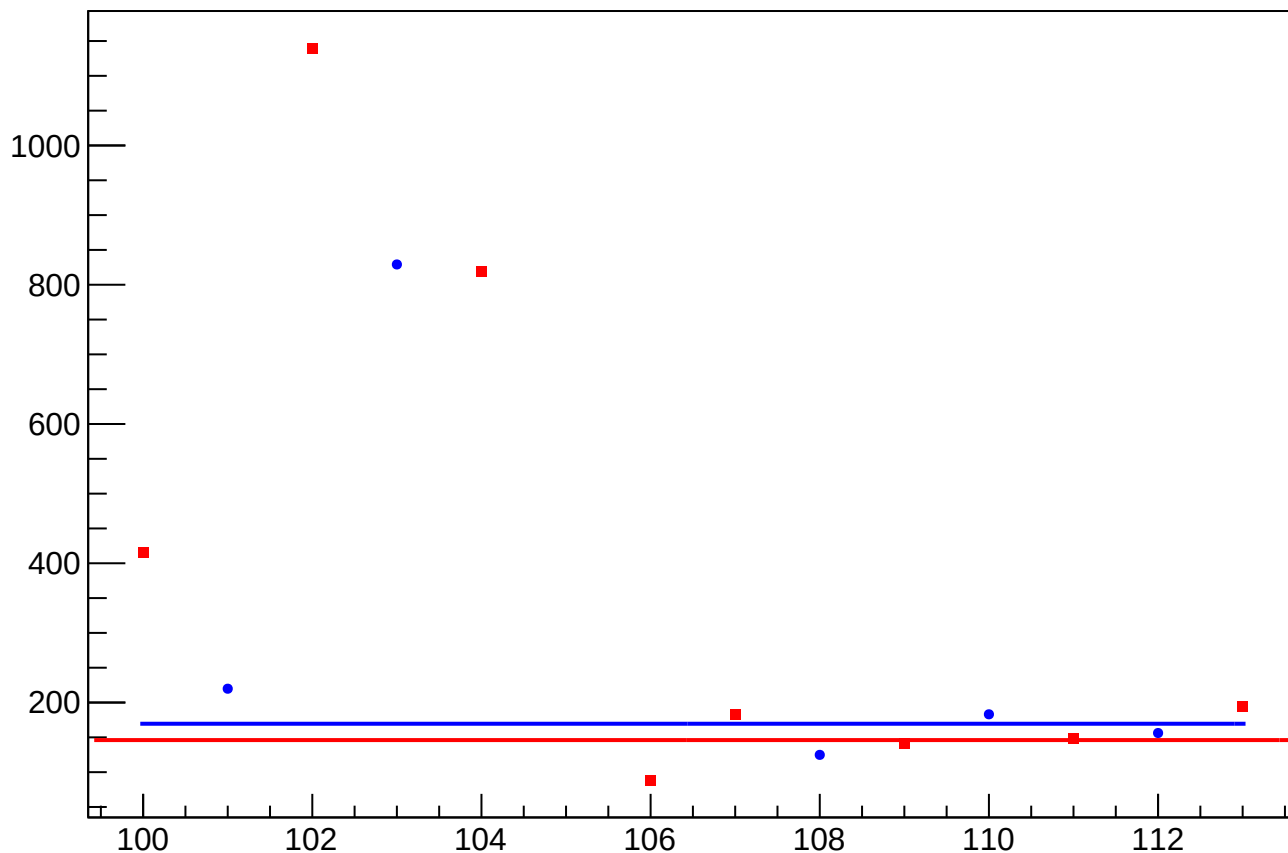
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.079  $\chi^2$ /NDF: 20.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 169.540 $\pm$ 0.086  $\chi^2$ /NDF: 913682.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 146.076 $\pm$ 0.074  $\chi^2$ /NDF: 1558253.8/7

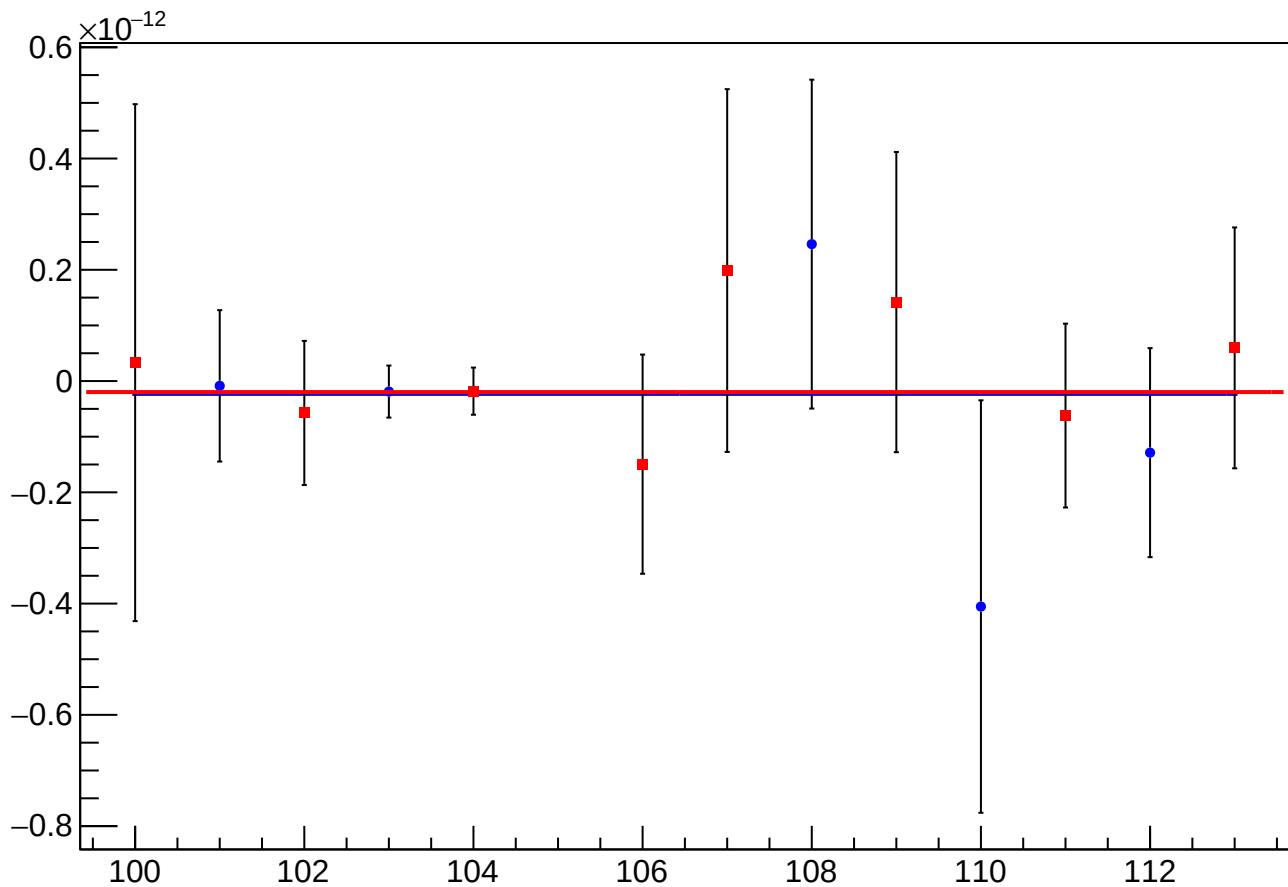
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.032 $\pm$ 0.056  $\chi^2$ /NDF: 2514623.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.5/7

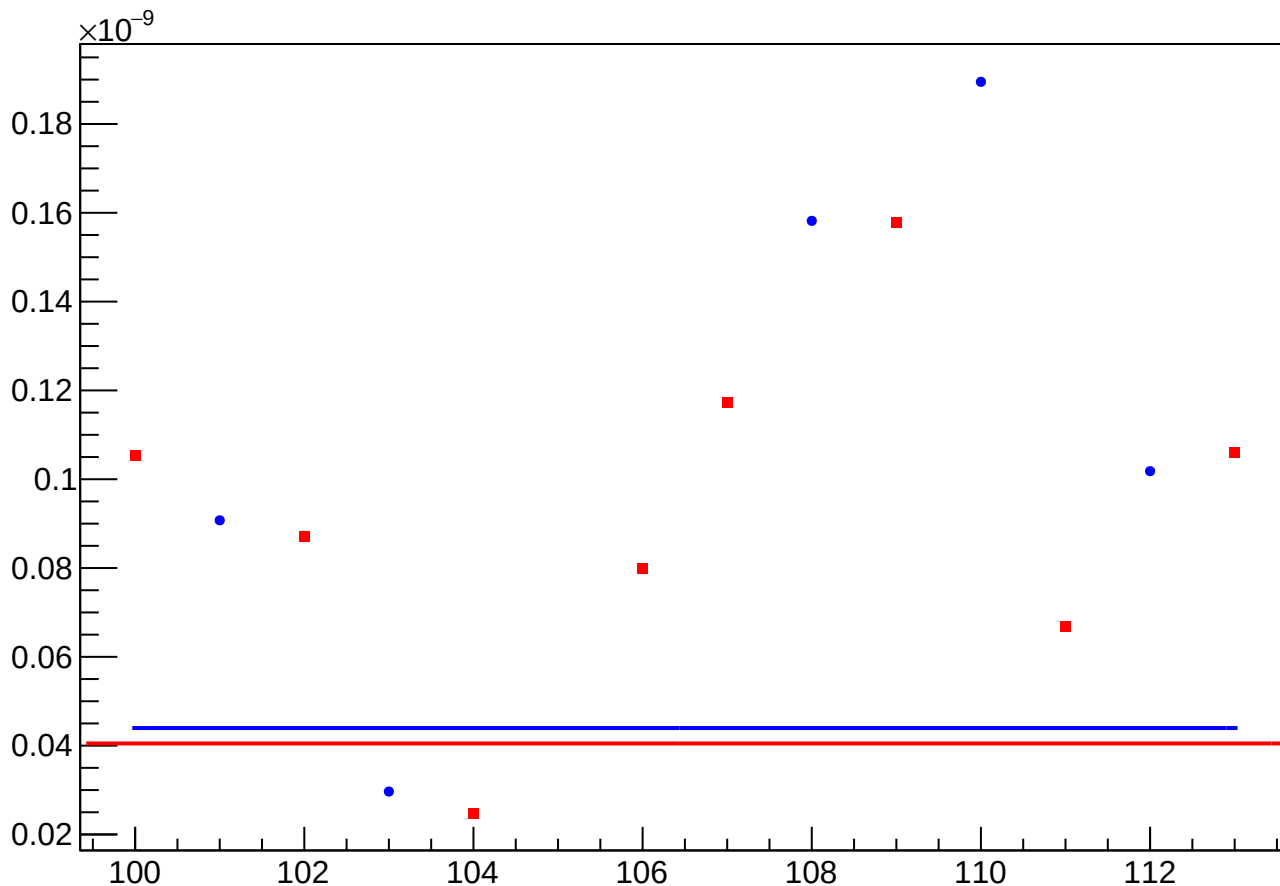
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1219857.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1380356.7/7

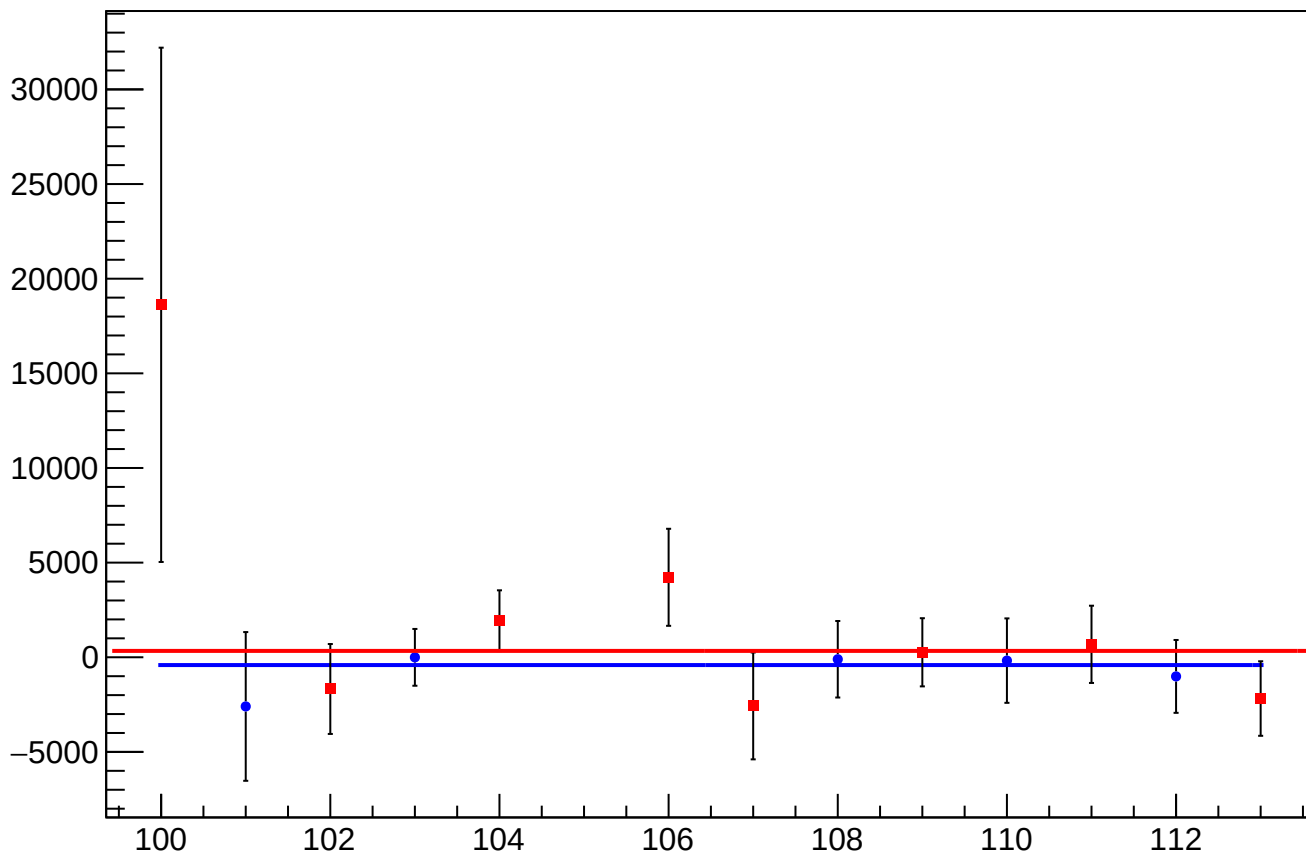
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2607834.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -411.890+/-903.574  $\chi^2/\text{NDF}$ : 0.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 336.145+/-777.287  $\chi^2/\text{NDF}$ : 8.5/7

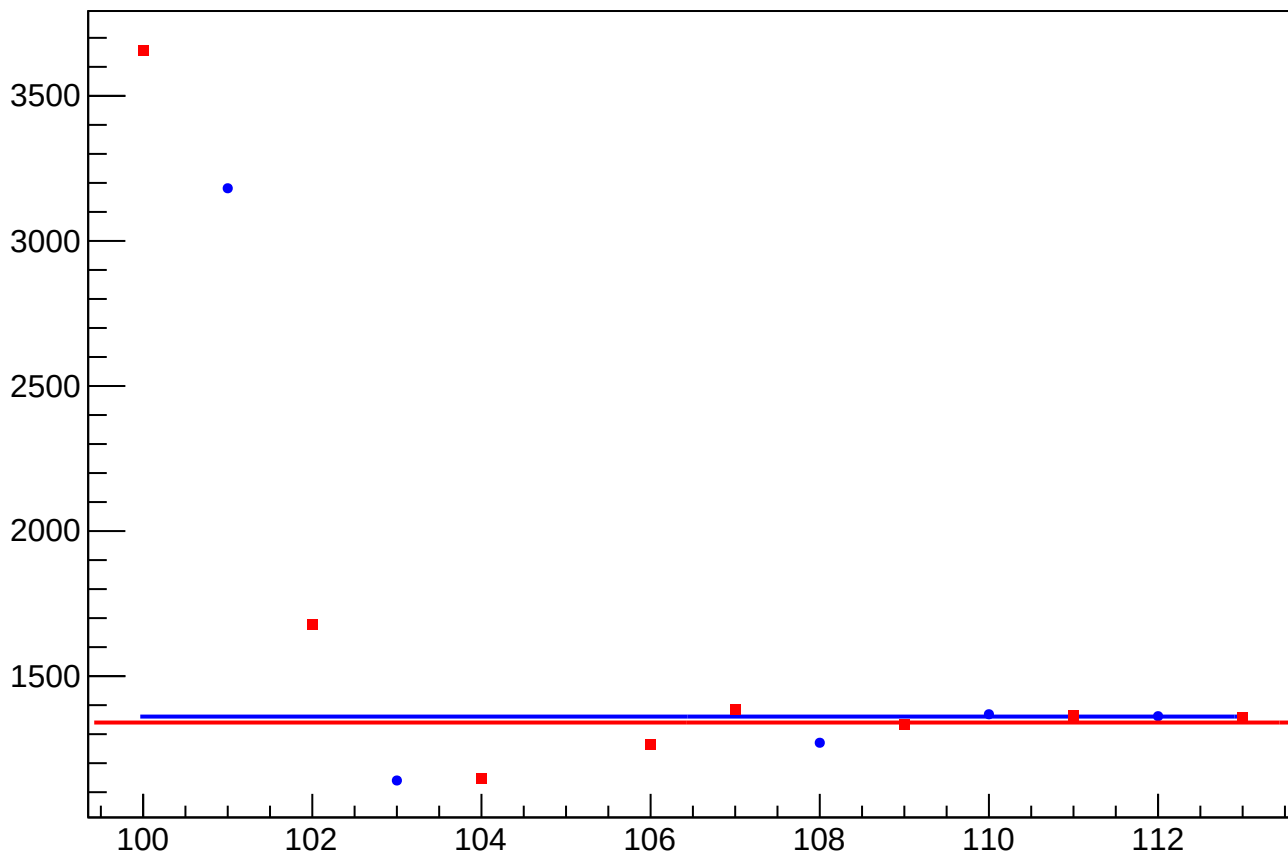
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.013+/-589.259  $\chi^2/\text{NDF}$ : 9.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1360.620 $\pm$ 0.639  $\chi^2$ /NDF: 476804.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1340.093 $\pm$ 0.550  $\chi^2$ /NDF: 129502.4/7

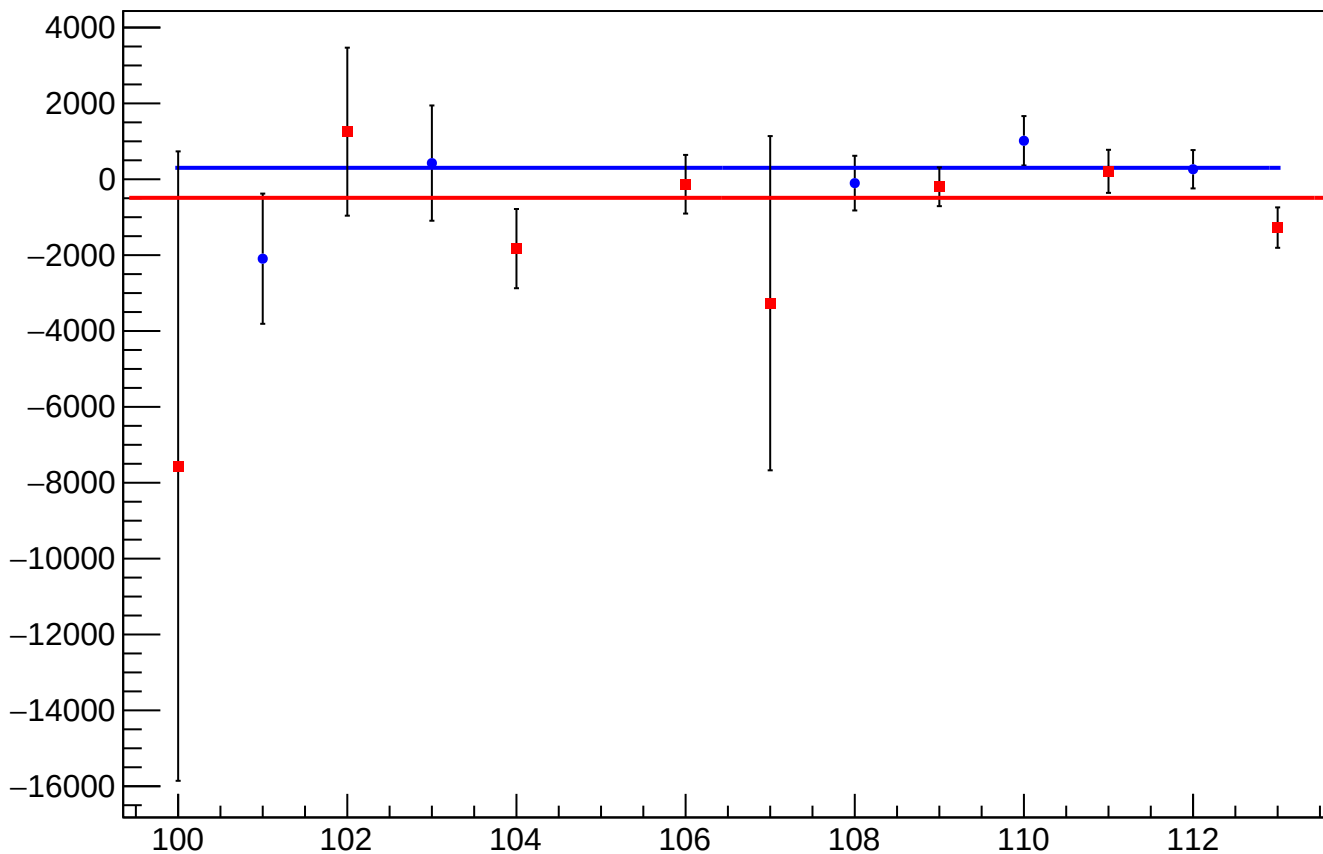
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1348.823 $\pm$ 0.417  $\chi^2$ /NDF: 606900.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_reg\_correction\_mean vs Slug



Right In: 301.693 $\pm$ 333.866  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -489.238 $\pm$ 274.020  $\chi^2$ /NDF: 7.6/7

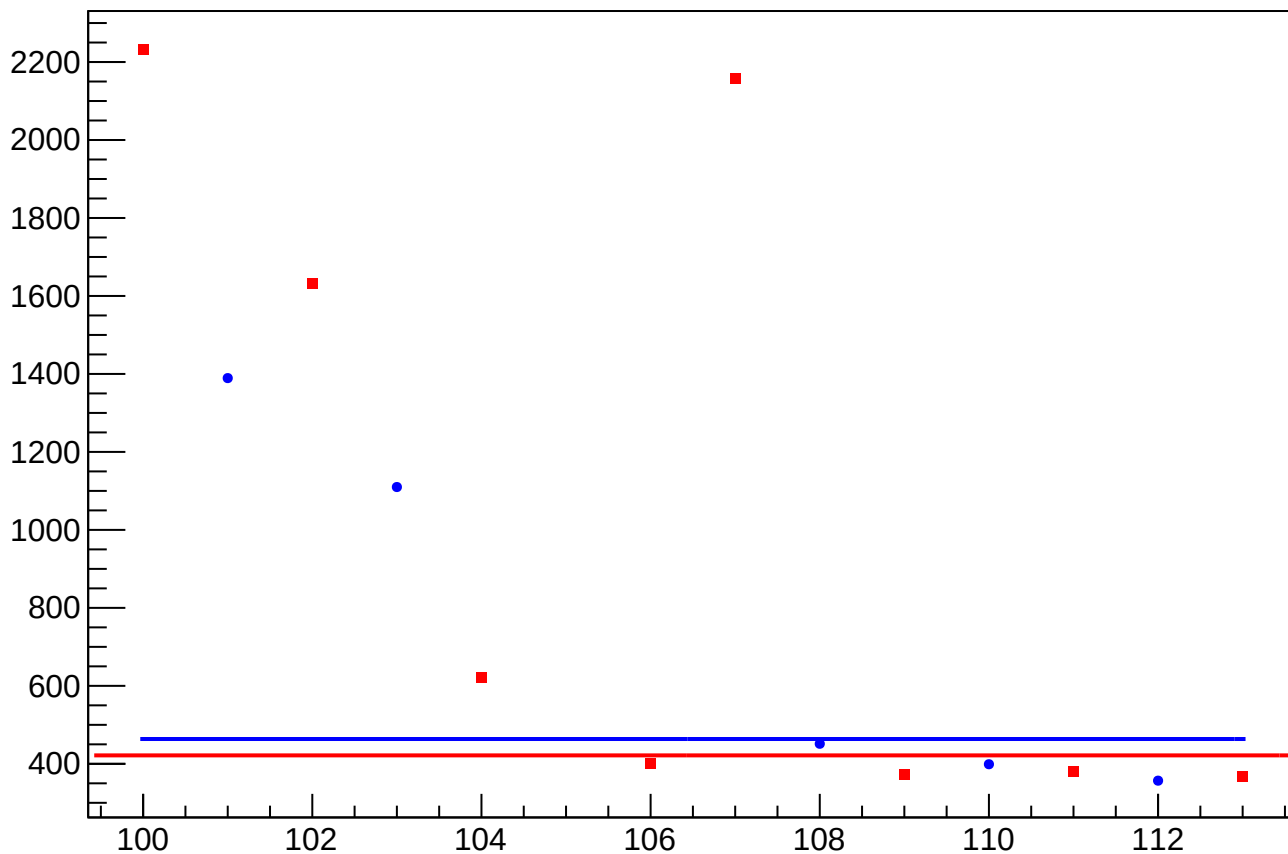
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -170.891 $\pm$ 211.813  $\chi^2$ /NDF: 14.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_reg\_correction\_rms vs Slug



Right In: 463.667 $\pm$ 0.236  $\chi^2$ /NDF: 1053457.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 421.668 $\pm$ 0.194  $\chi^2$ /NDF: 1128319.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

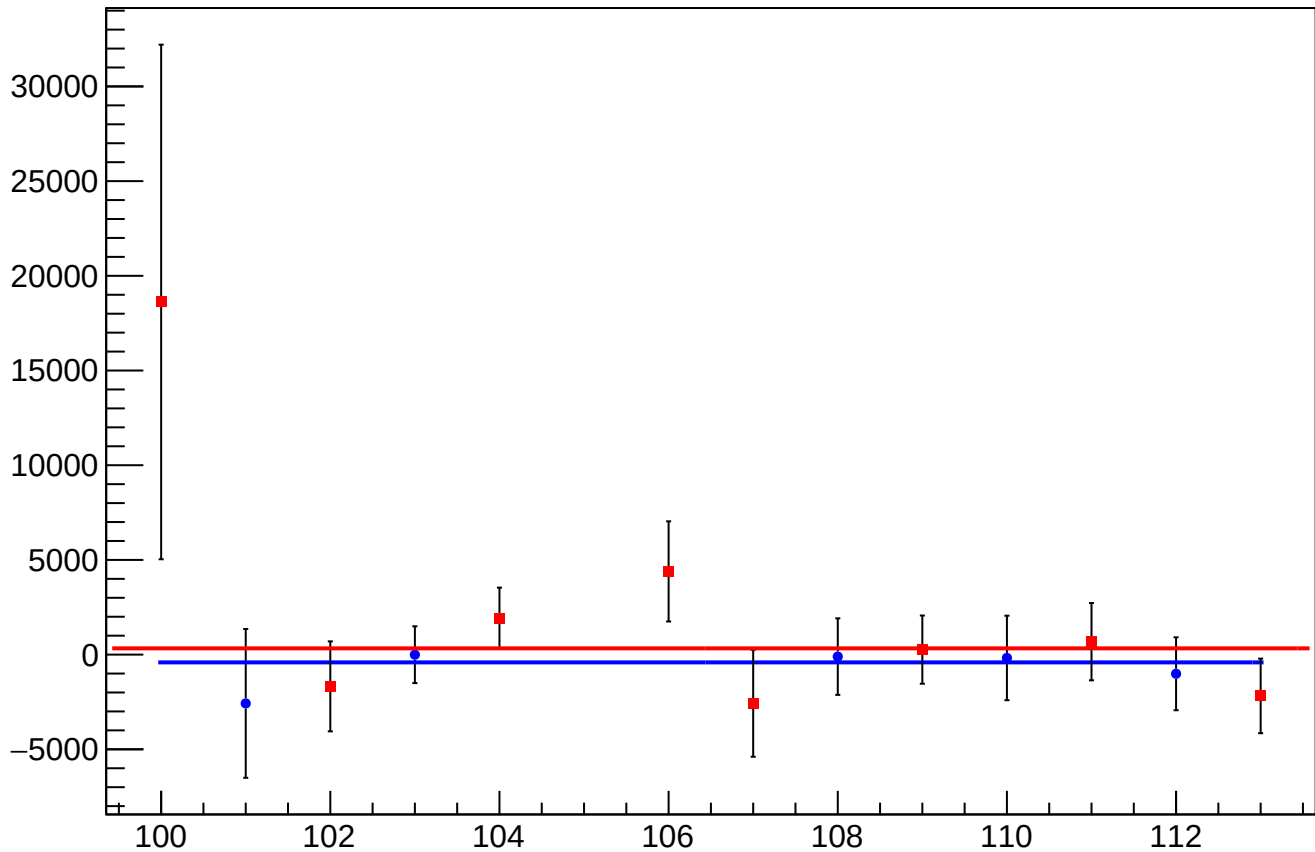
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 438.572 $\pm$ 0.150  $\chi^2$ /NDF: 2200688.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# cor\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -410.566+/-903.574  $\chi^2/\text{NDF}$ : 0.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 329.426+/-779.434  $\chi^2/\text{NDF}$ : 8.6/7

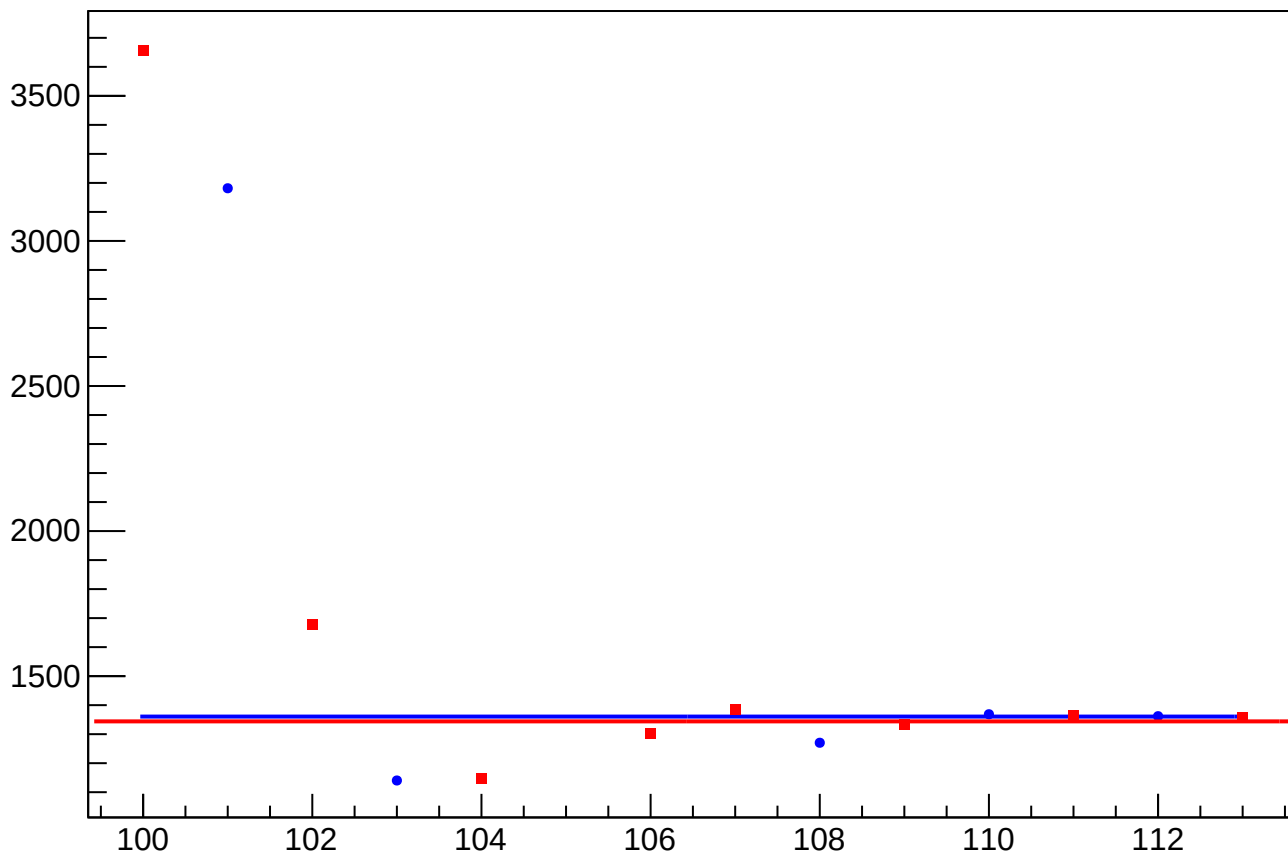
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.717+/-590.193  $\chi^2/\text{NDF}$ : 9.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1360.619 $\pm$ 0.639  $\chi^2$ /NDF: 476806.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1344.064 $\pm$ 0.551  $\chi^2$ /NDF: 128020.9/7

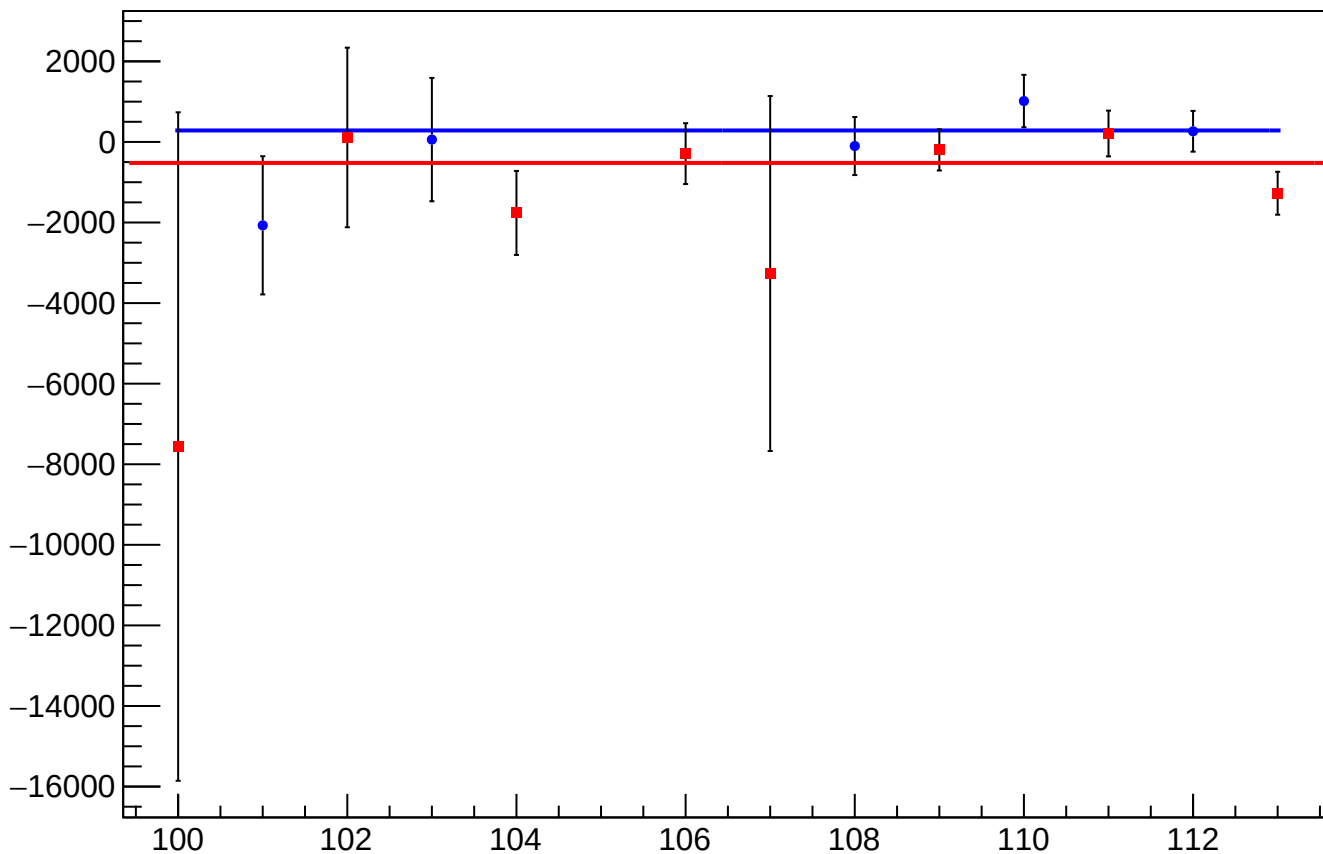
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1351.127 $\pm$ 0.417  $\chi^2$ /NDF: 605212.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_cor\_correction\_mean vs Slug



Right In: 284.887+/-333.976  $\chi^2/\text{NDF}$ : 3.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -520.926+/-273.176  $\chi^2/\text{NDF}$ : 6.8/7

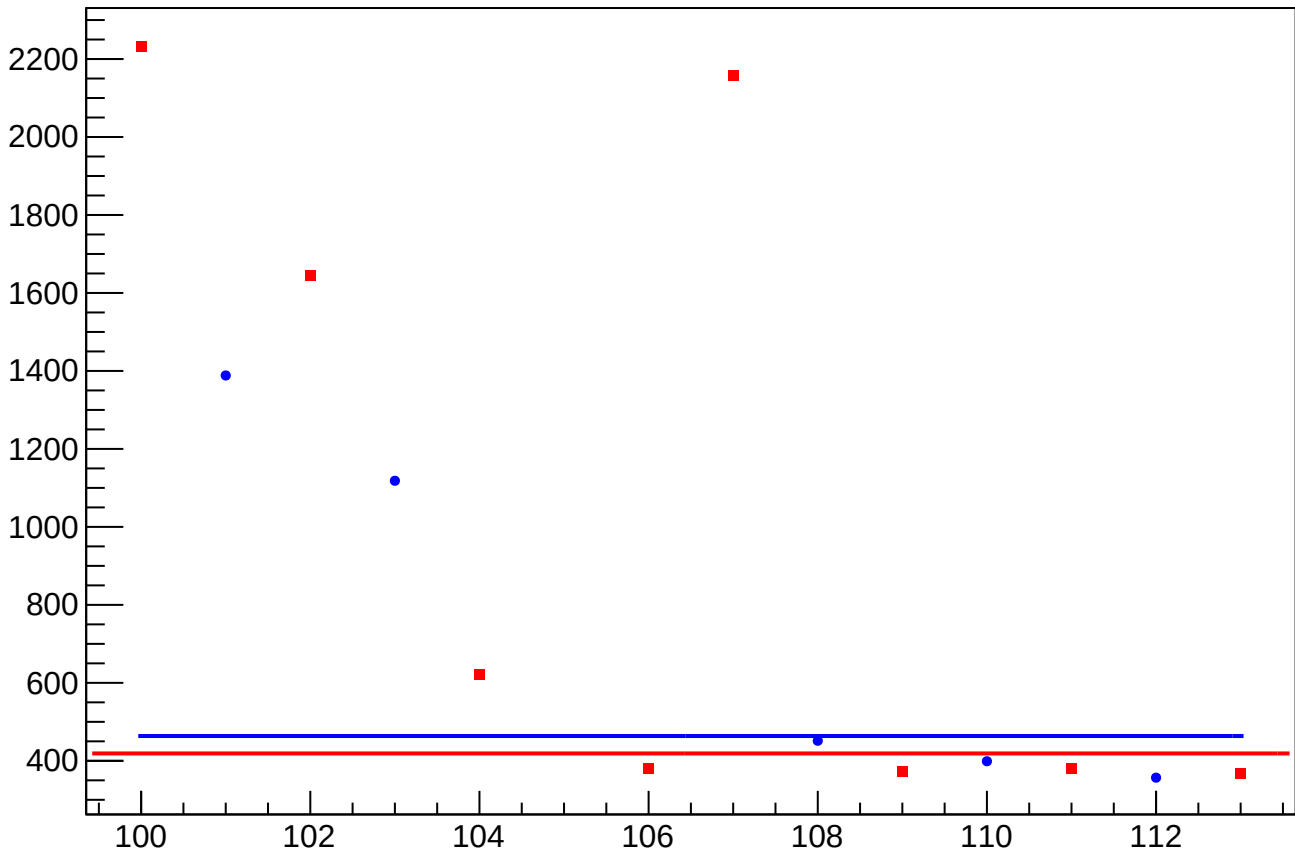
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -197.911+/-211.451  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_cor\_correction\_rms vs Slug



Right In: 463.622+/-0.236  $\chi^2/\text{NDF}$ : 1057065.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 418.965+/-0.193  $\chi^2/\text{NDF}$ : 1139192.0/7

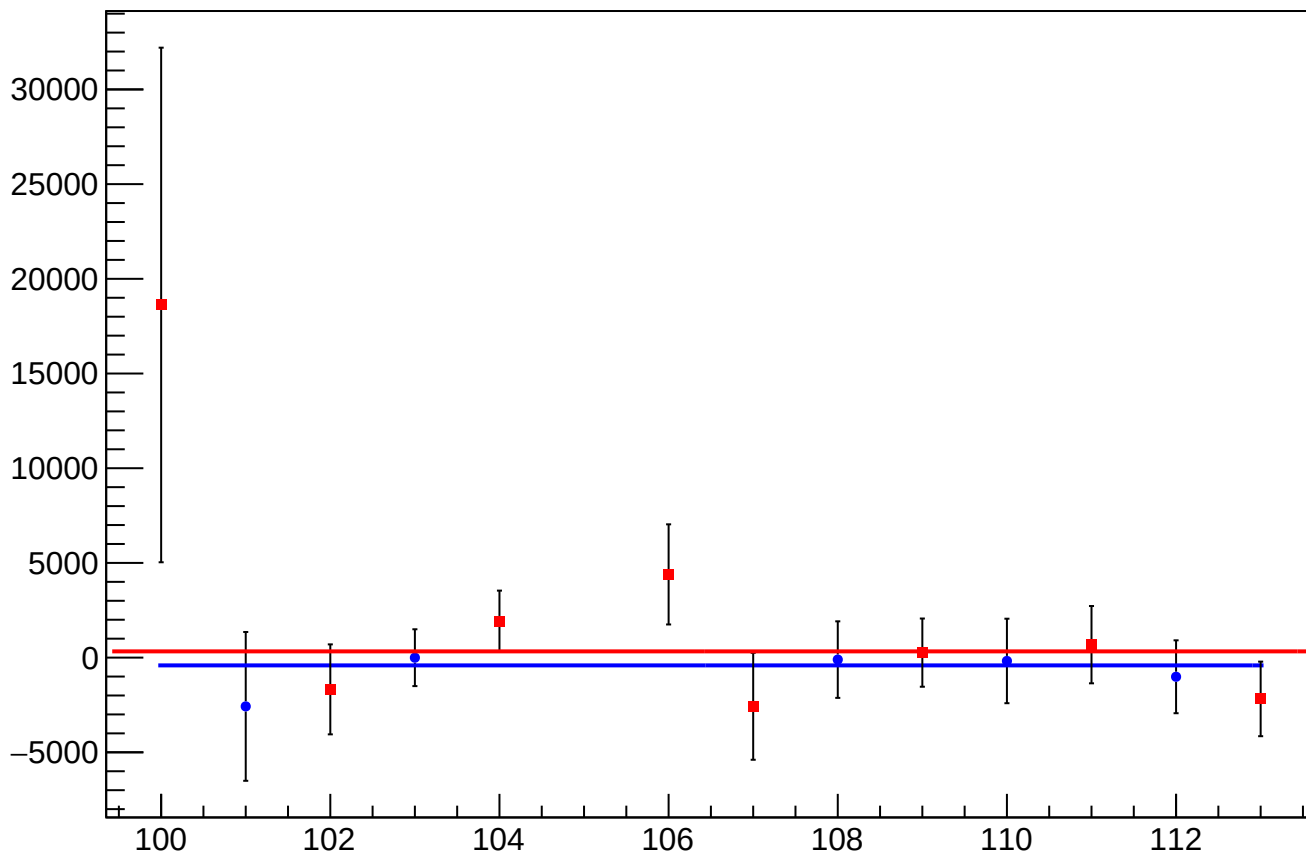
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 436.866+/-0.150  $\chi^2/\text{NDF}$ : 2217681.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -410.566+/-903.574  $\chi^2/\text{NDF}$ : 0.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 329.426+/-779.434  $\chi^2/\text{NDF}$ : 8.6/7

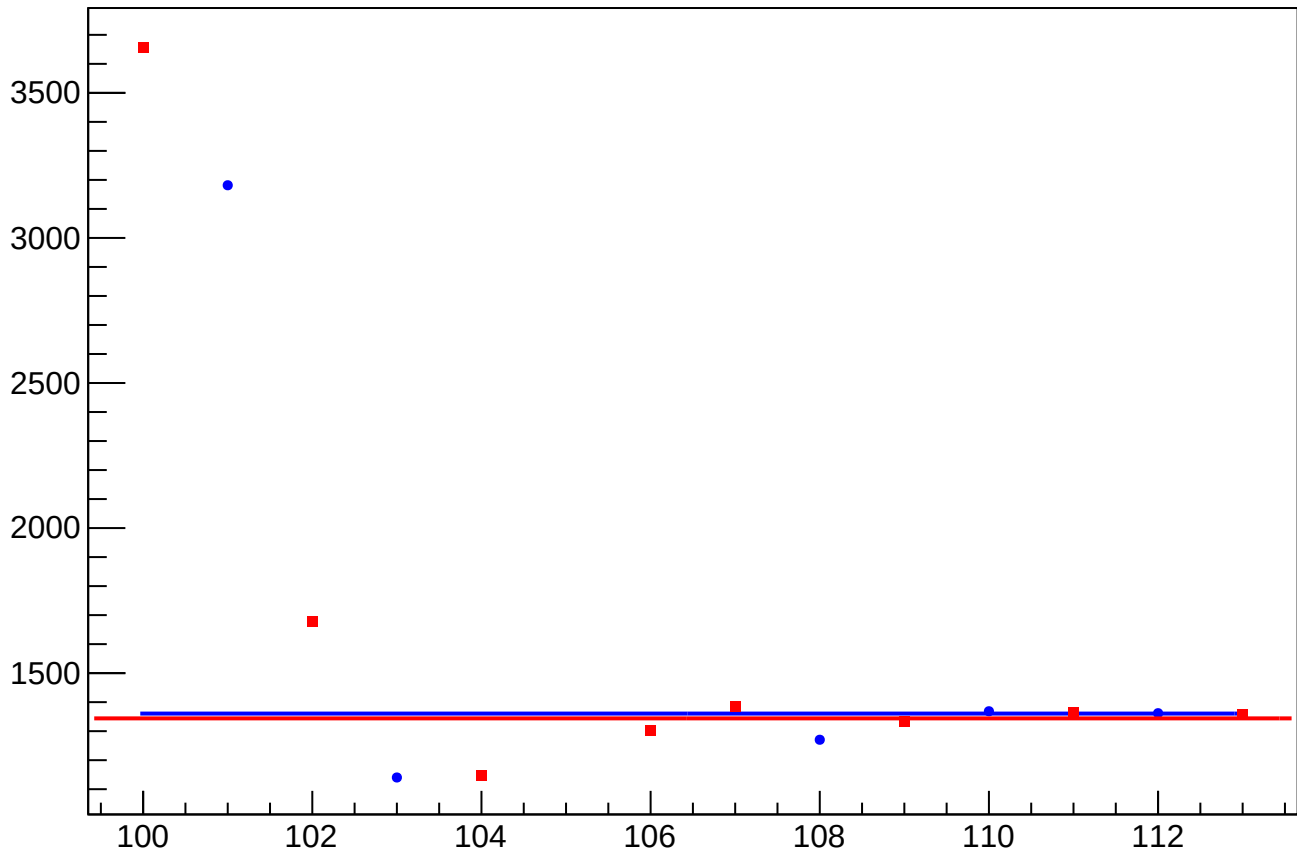
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.717+/-590.193  $\chi^2/\text{NDF}$ : 9.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1360.619 $\pm$ 0.639  $\chi^2$ /NDF: 476806.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1344.064 $\pm$ 0.551  $\chi^2$ /NDF: 128020.9/7

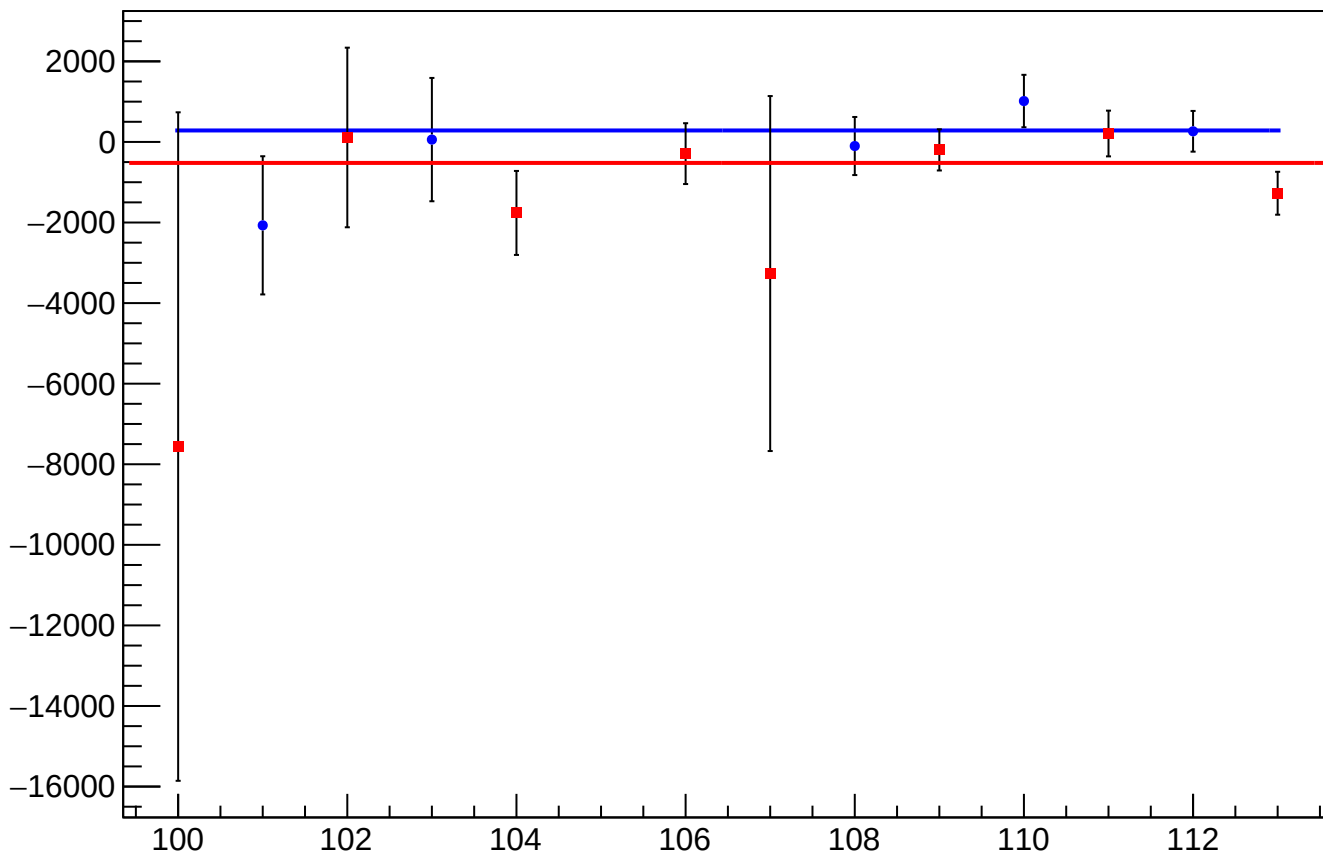
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1351.127 $\pm$ 0.417  $\chi^2$ /NDF: 605212.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 284.887+/-333.976  $\chi^2/\text{NDF}$ : 3.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -520.926+/-273.176  $\chi^2/\text{NDF}$ : 6.8/7

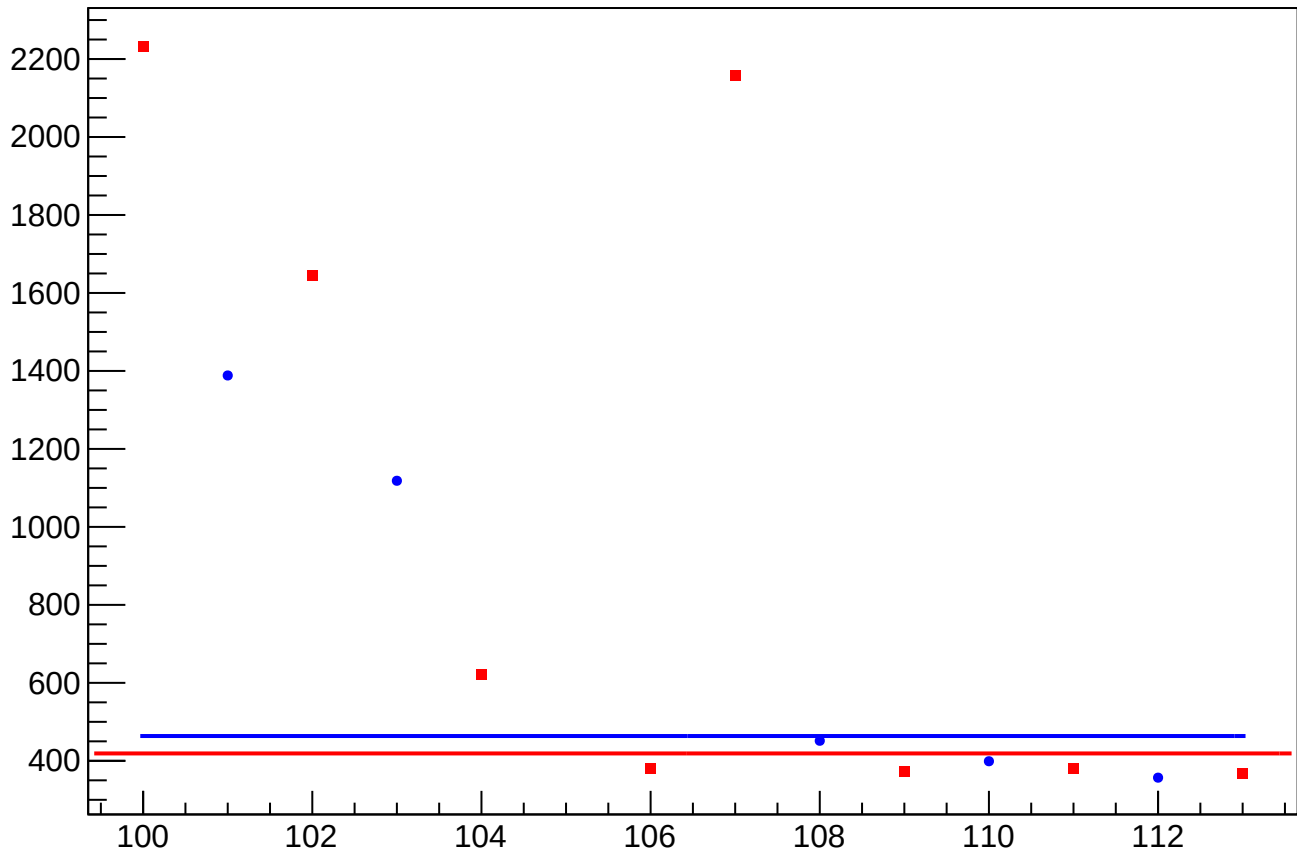
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -197.911+/-211.451  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 463.622 $\pm$ 0.236  $\chi^2$ /NDF: 1057065.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 418.965 $\pm$ 0.193  $\chi^2$ /NDF: 1139192.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

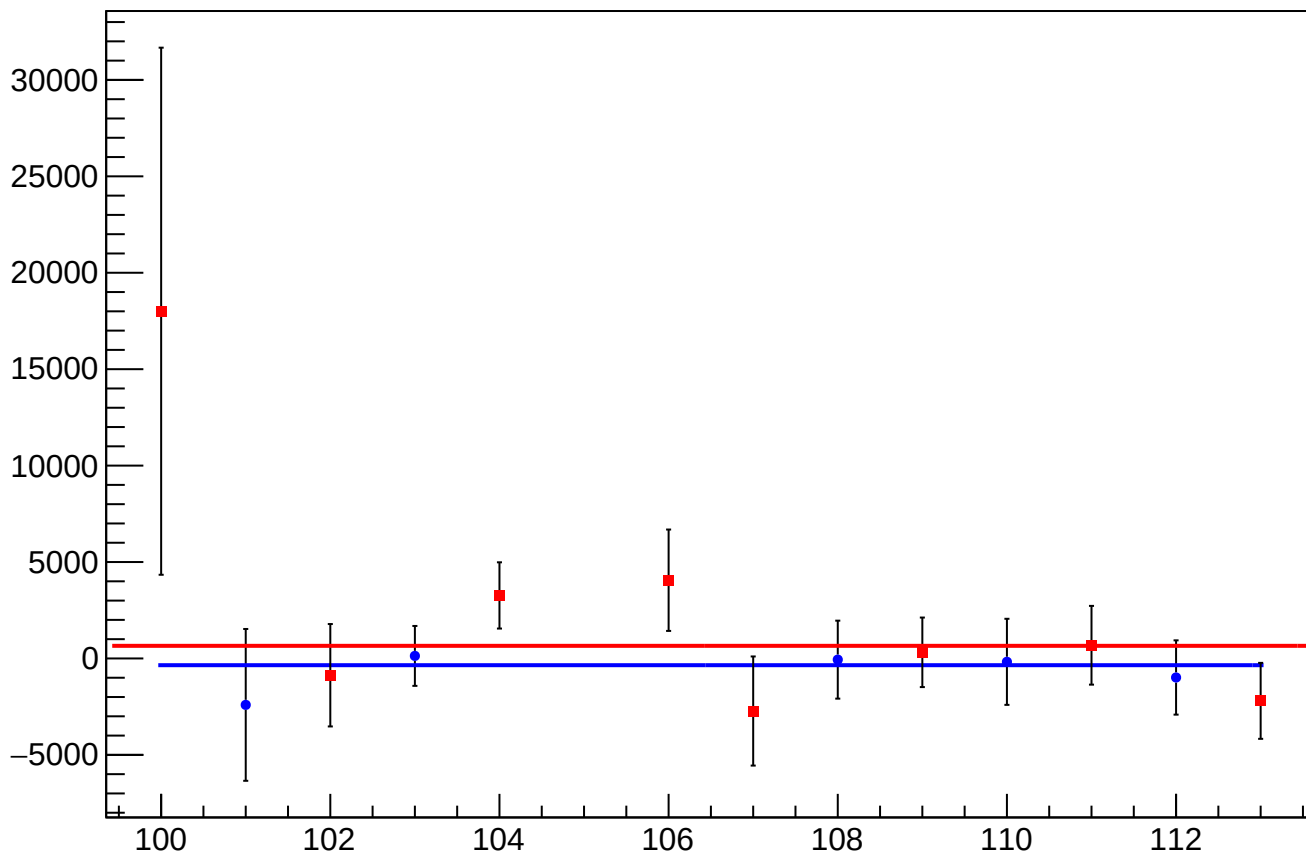
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 436.866 $\pm$ 0.150  $\chi^2$ /NDF: 2217681.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -349.551 $\pm$ 915.113  $\chi^2$ /NDF: 0.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 654.622 $\pm$ 800.366  $\chi^2$ /NDF: 9.5/7

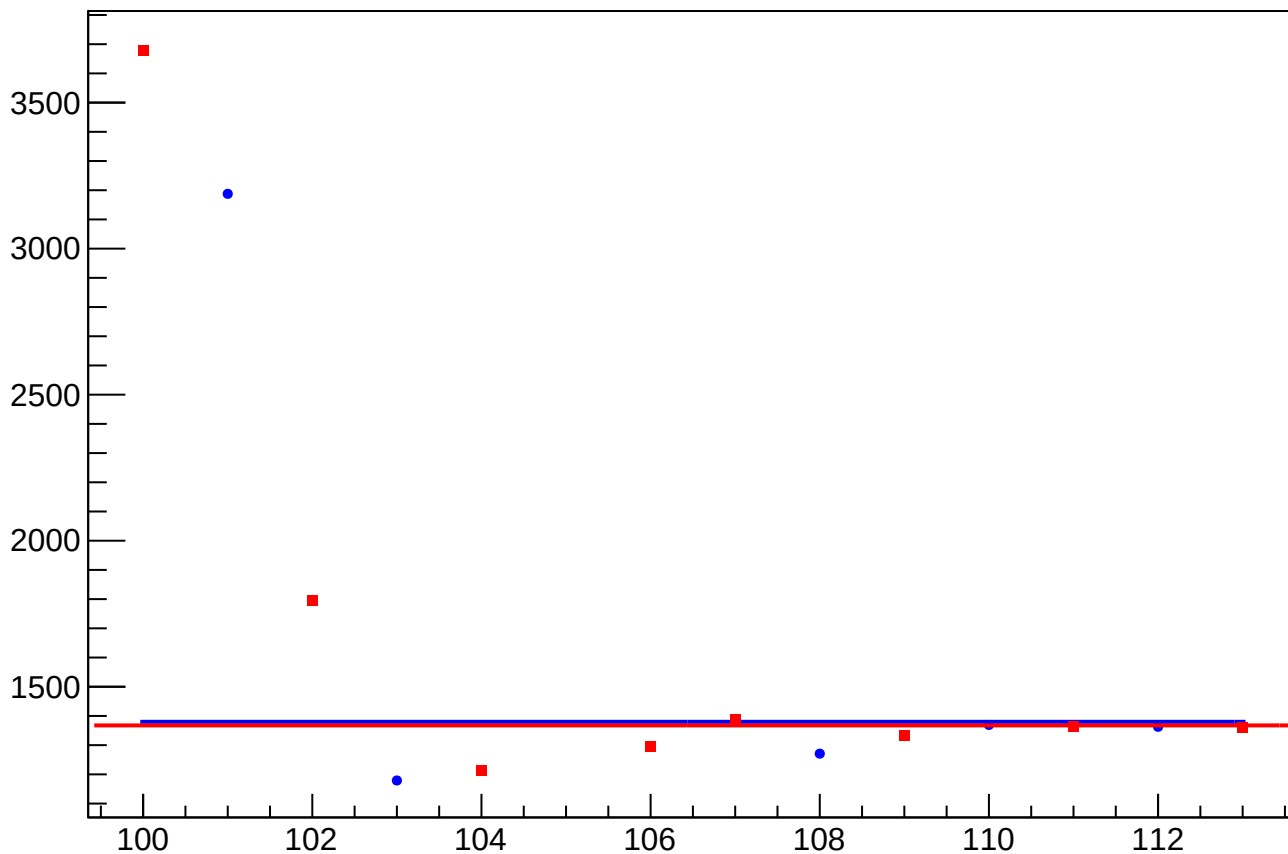
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 219.404 $\pm$ 602.454  $\chi^2$ /NDF: 10.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1379.906 $\pm$ 0.647  $\chi^2$ /NDF: 461318.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1367.613 $\pm$ 0.566  $\chi^2$ /NDF: 127287.8/7

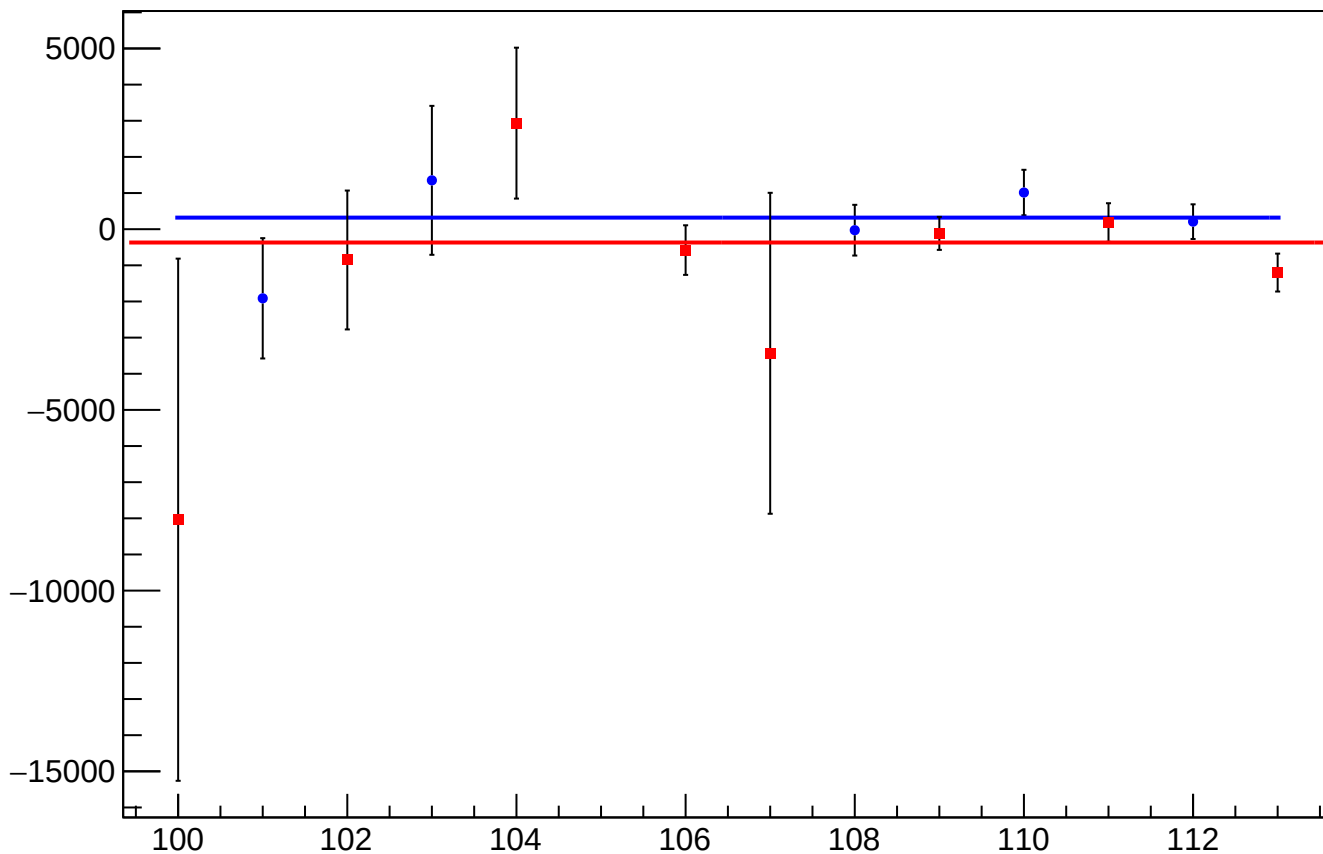
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1372.941 $\pm$ 0.426  $\chi^2$ /NDF: 588810.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_dit\_correction\_mean vs Slug



Right In: 320.268+/-324.444  $\chi^2/\text{NDF}$ : 3.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -368.627+/-261.399  $\chi^2/\text{NDF}$ : 8.2/7

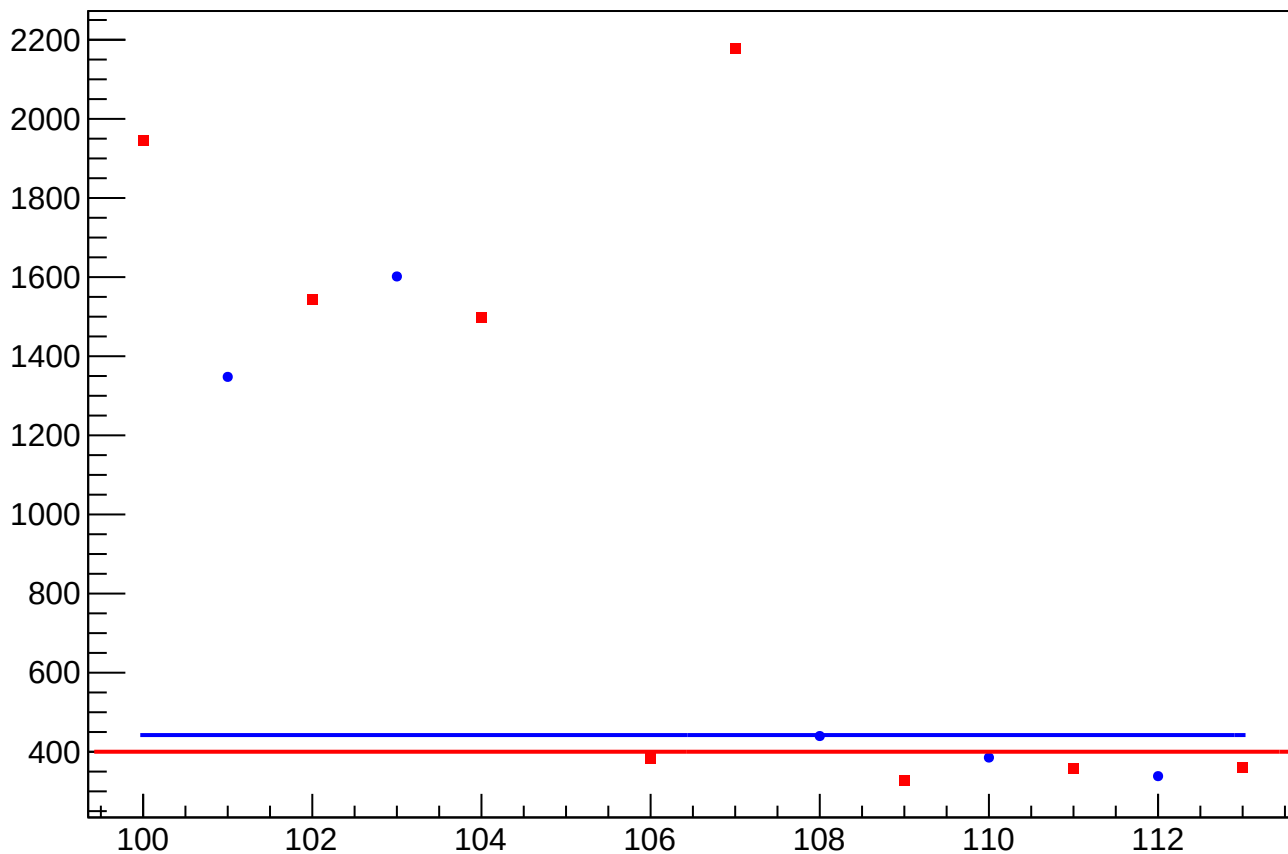
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -97.466+/-203.553  $\chi^2/\text{NDF}$ : 14.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_dit\_correction\_rms vs Slug



Right In: 442.314 $\pm$ 0.229  $\chi^2$ /NDF: 1335073.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 400.180 $\pm$ 0.185  $\chi^2$ /NDF: 1750225.1/7

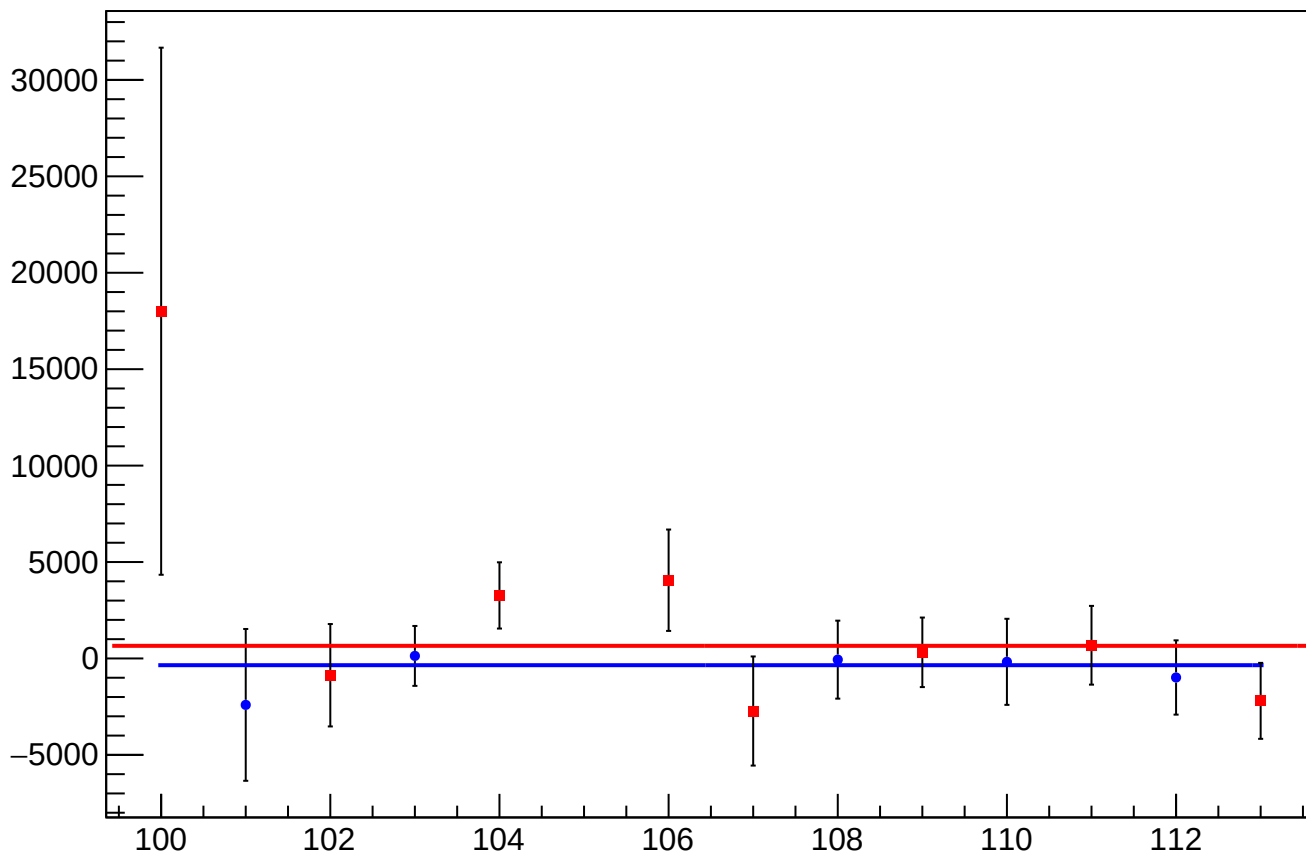
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 416.764 $\pm$ 0.144  $\chi^2$ /NDF: 3105752.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -349.549+/-915.113  $\chi^2/\text{NDF}$ : 0.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 654.623+/-800.366  $\chi^2/\text{NDF}$ : 9.5/7

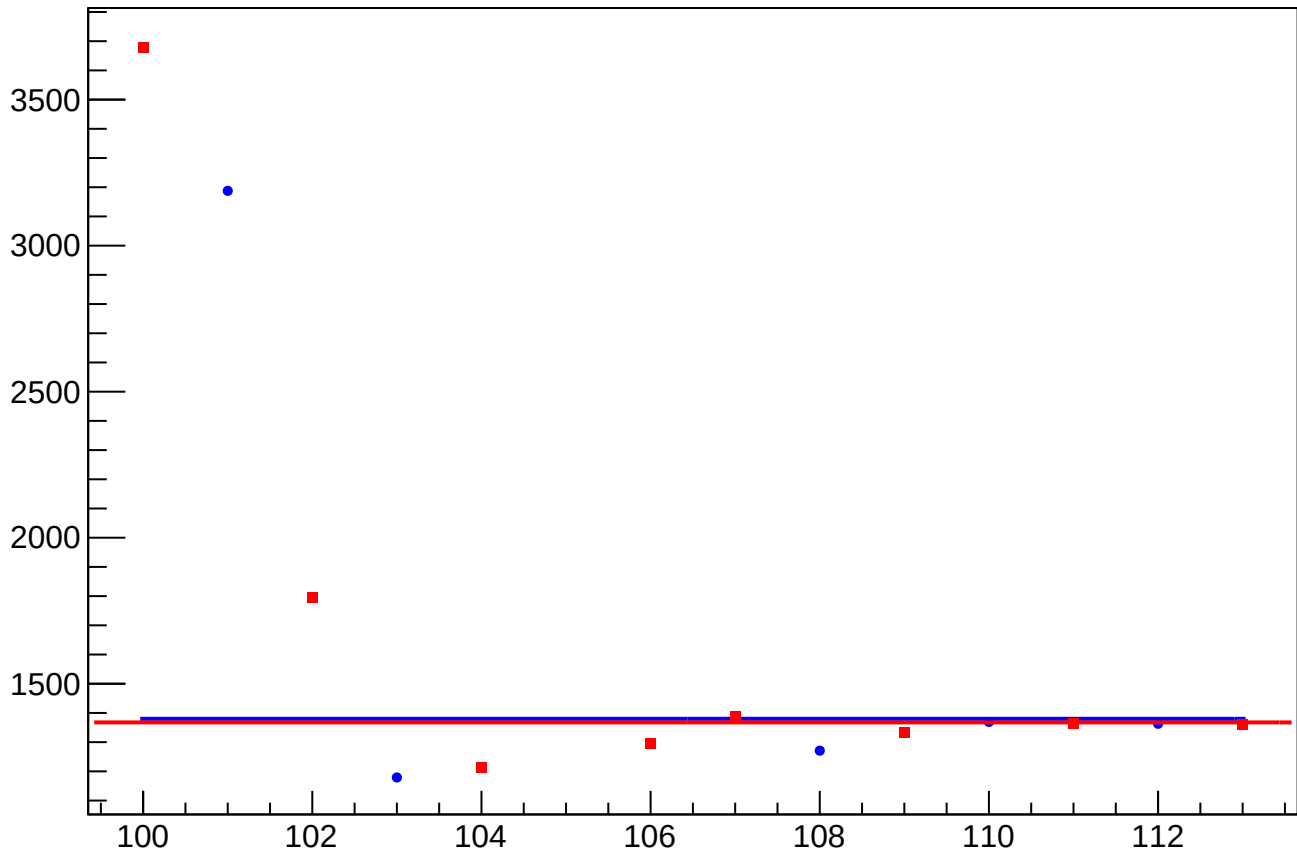
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 219.406+/-602.454  $\chi^2/\text{NDF}$ : 10.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1379.906 $\pm$ 0.647  $\chi^2$ /NDF: 461317.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1367.613 $\pm$ 0.566  $\chi^2$ /NDF: 127287.8/7

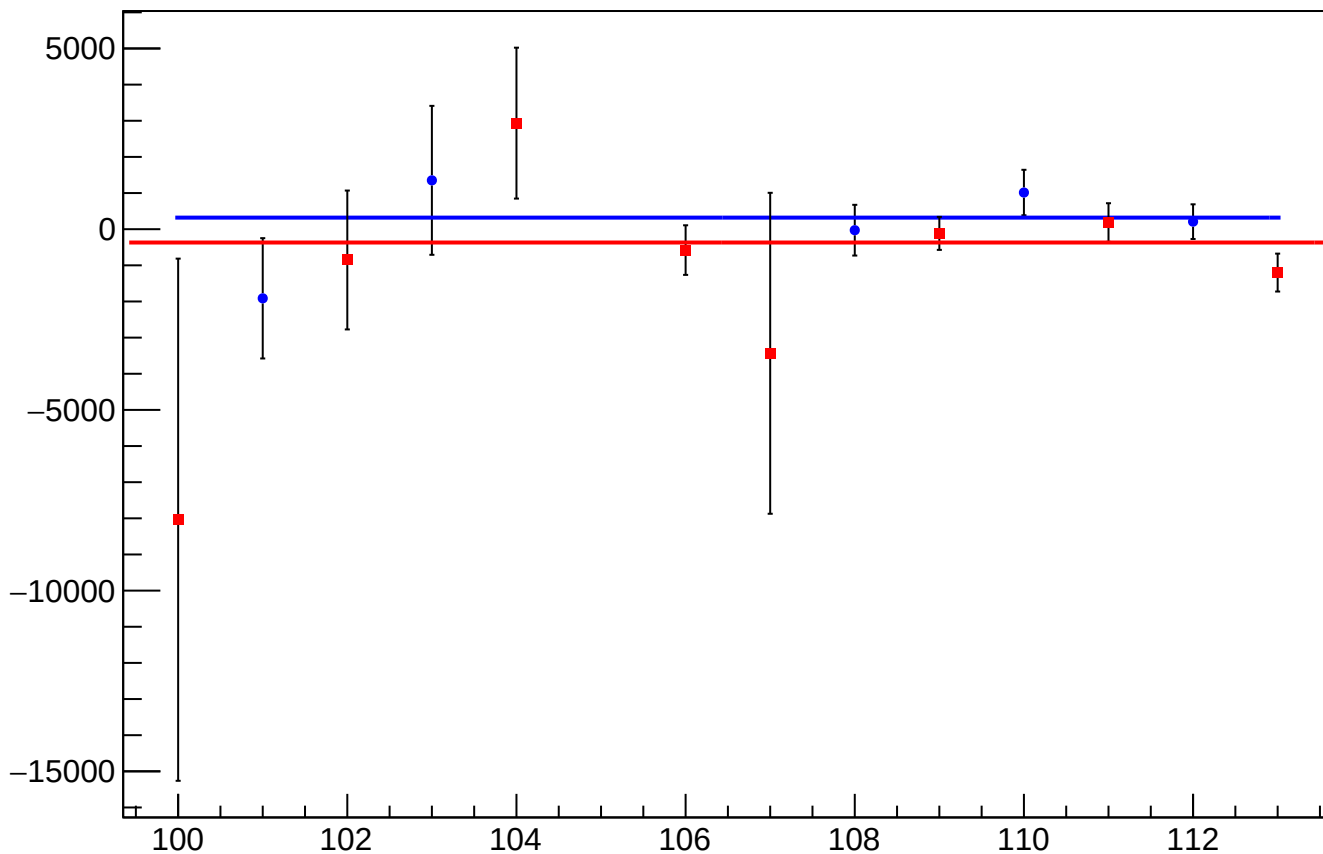
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1372.941 $\pm$ 0.426  $\chi^2$ /NDF: 588810.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 320.267+/-324.441  $\chi^2/\text{NDF}$ : 3.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -368.626+/-261.398  $\chi^2/\text{NDF}$ : 8.2/7

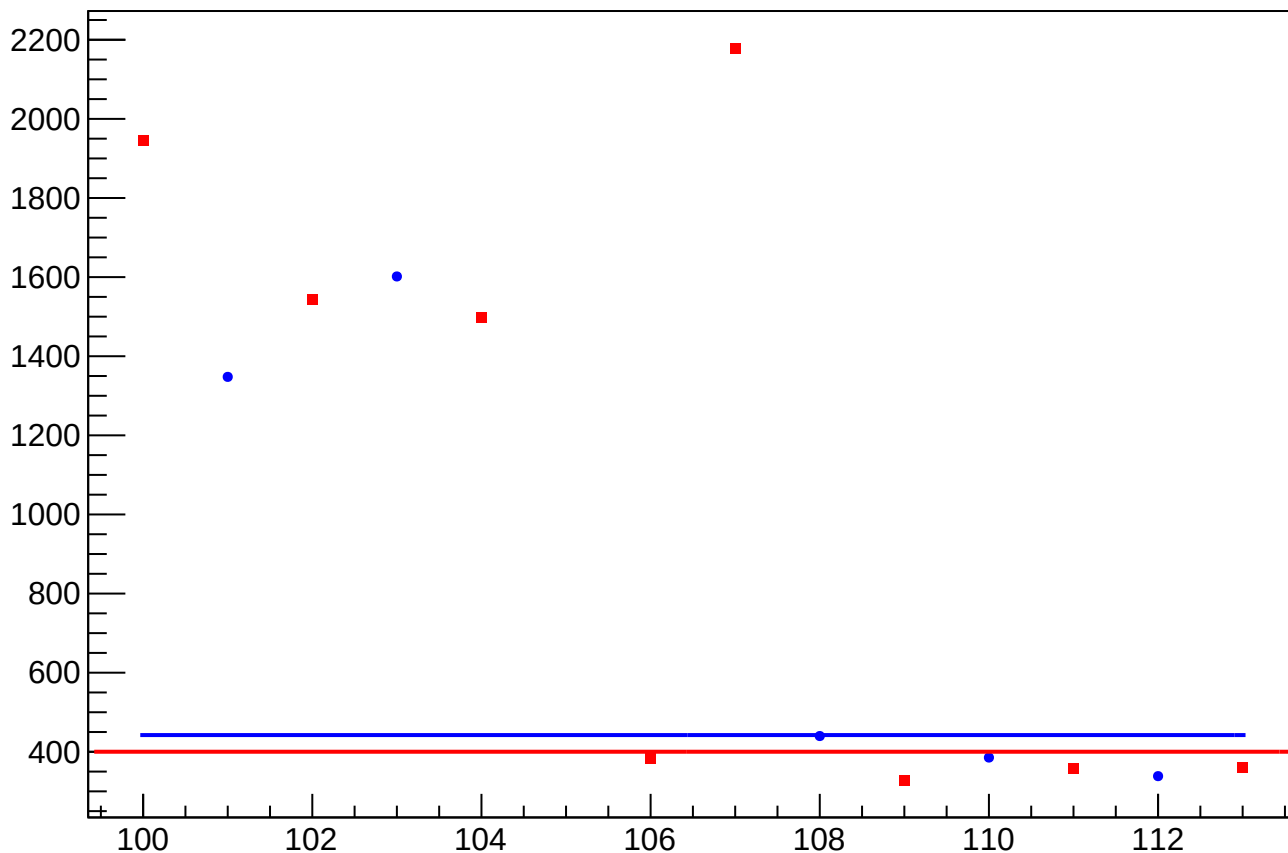
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -97.465+/-203.552  $\chi^2/\text{NDF}$ : 14.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 442.311+/-0.229  $\chi^2/\text{NDF}$ : 1335076.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 400.178+/-0.185  $\chi^2/\text{NDF}$ : 1750229.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

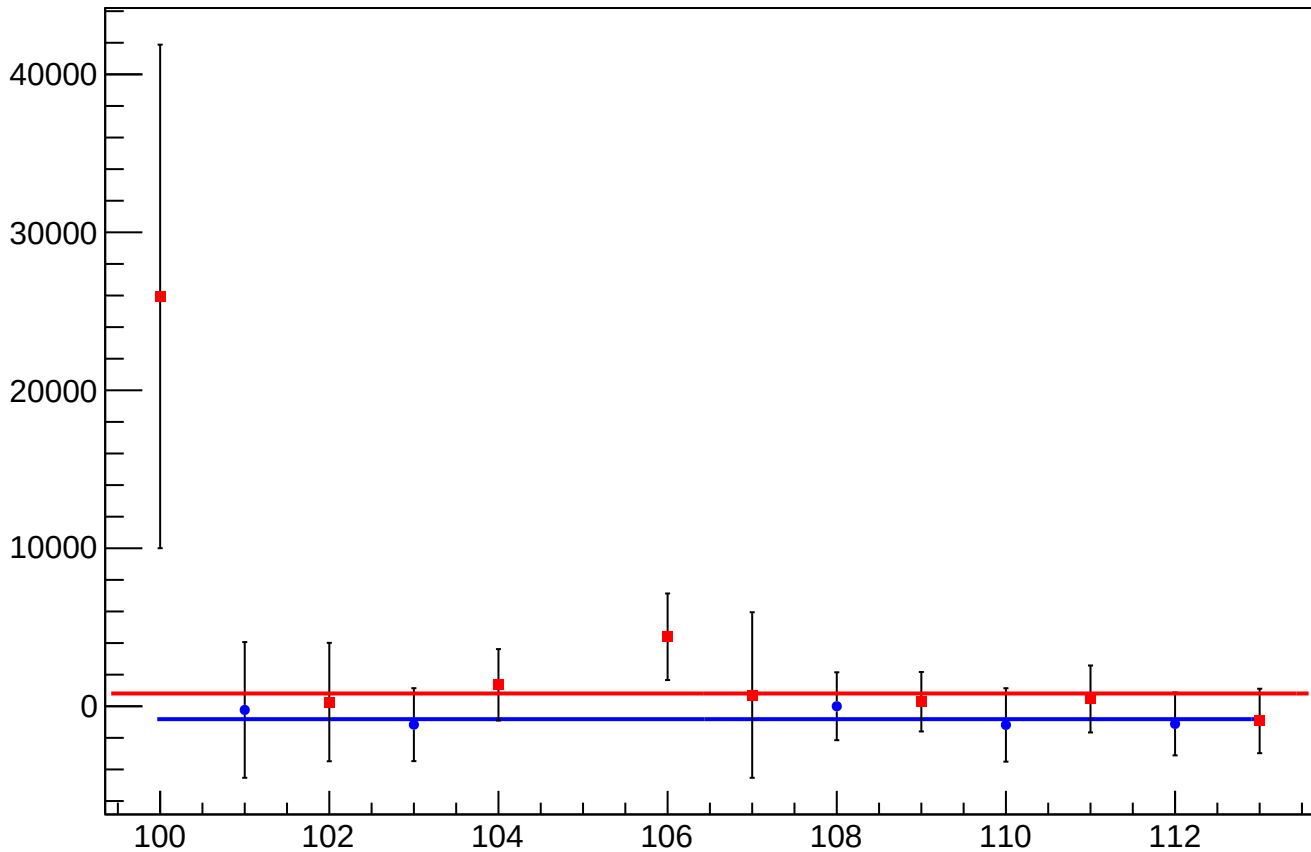
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 416.762+/-0.144  $\chi^2/\text{NDF}$ : 3105758.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -817.027+/-1056.639  $\chi^2/\text{NDF}$ : 0.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 808.483+/-918.280  $\chi^2/\text{NDF}$ : 5.1/7

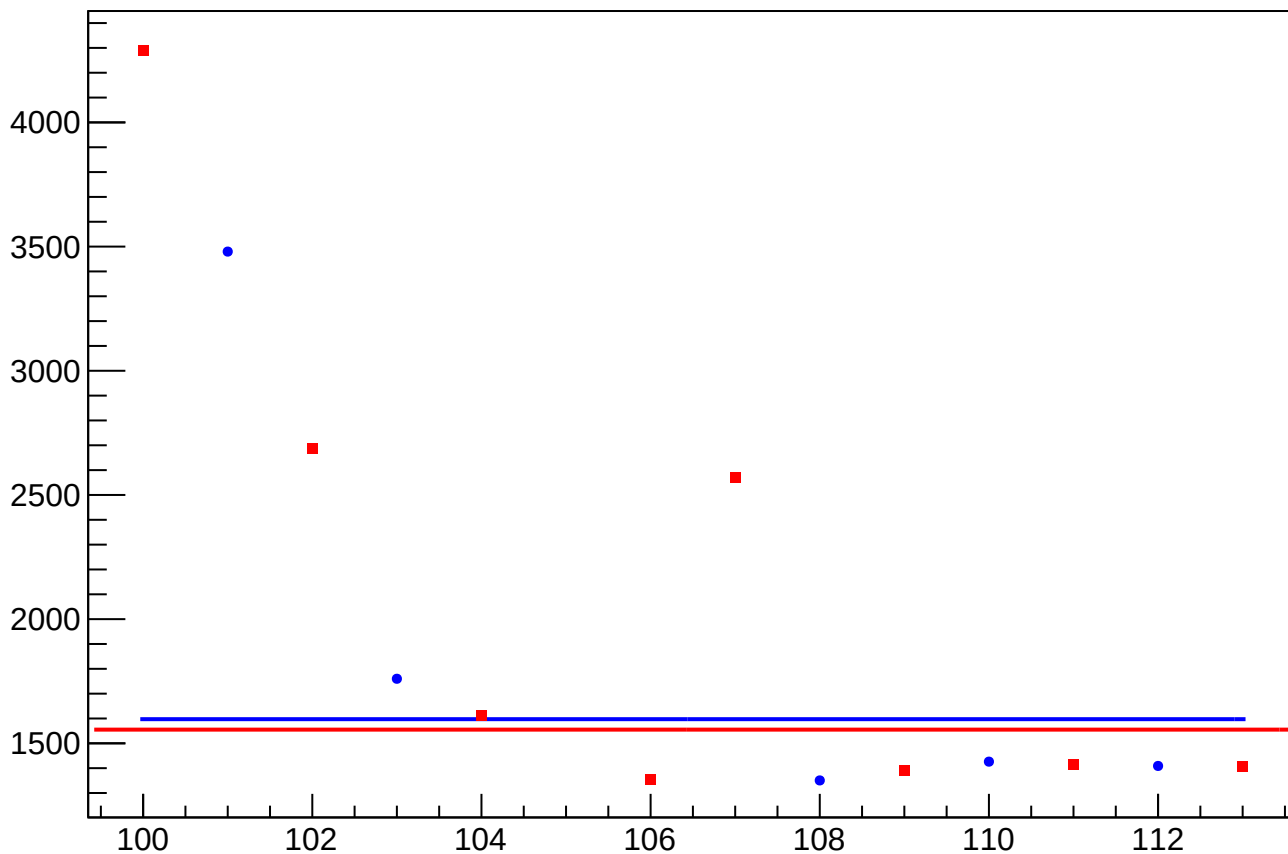
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 109.052+/-693.113  $\chi^2/\text{NDF}$ : 6.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1597.255+/-0.747  $\chi^2/\text{NDF}$ : 449158.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1555.172+/-0.649  $\chi^2/\text{NDF}$ : 362313.6/7

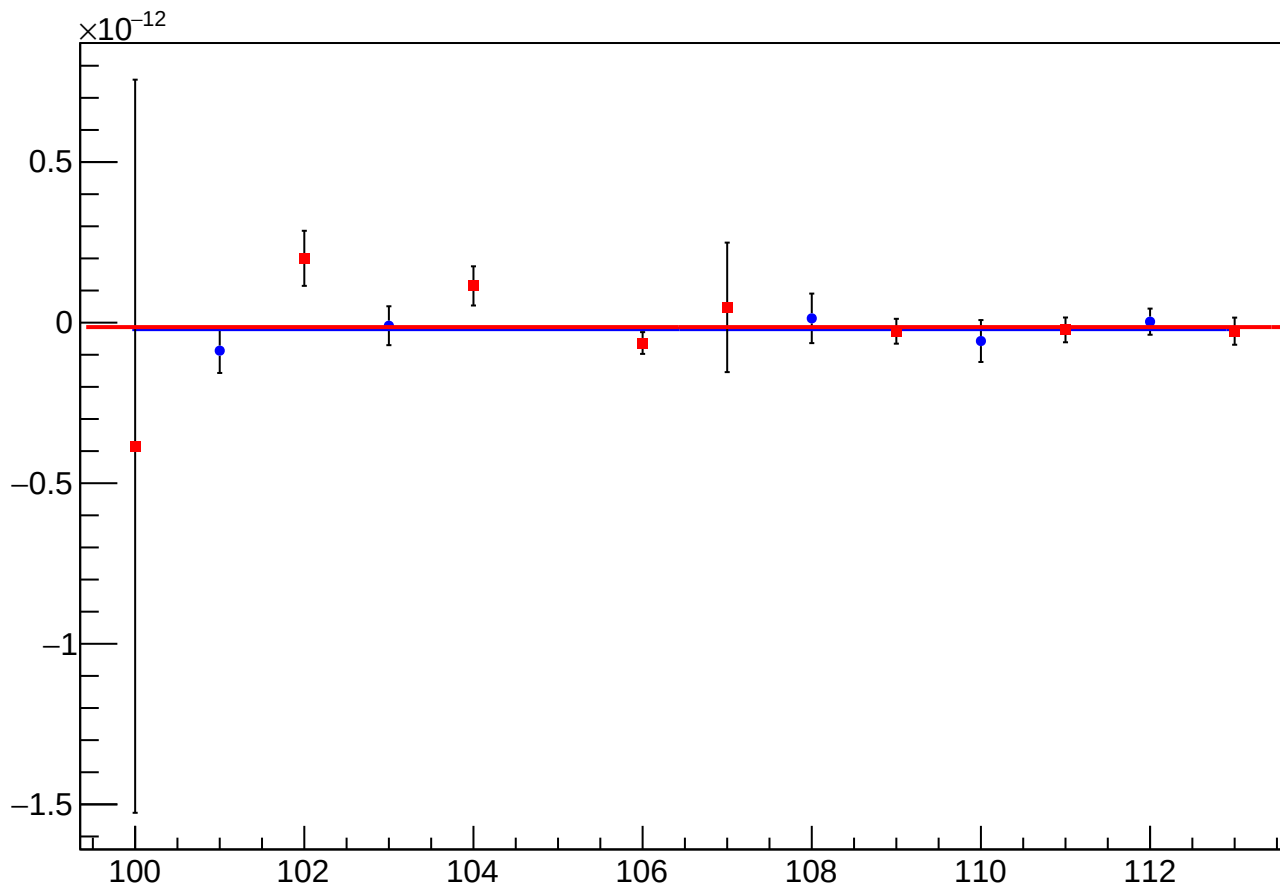
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1573.279+/-0.490  $\chi^2/\text{NDF}$ : 813279.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.2/7

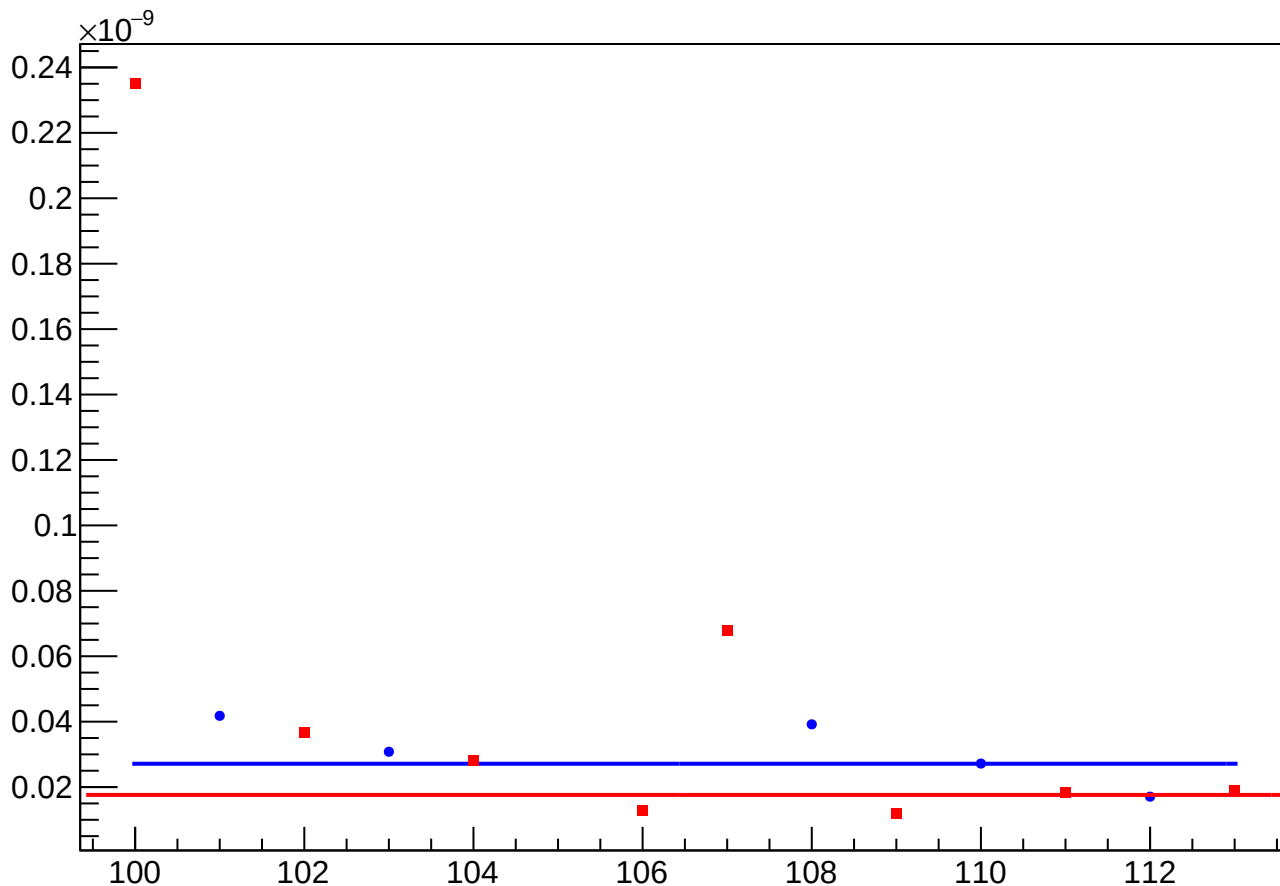
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 267432.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 443623.6/7

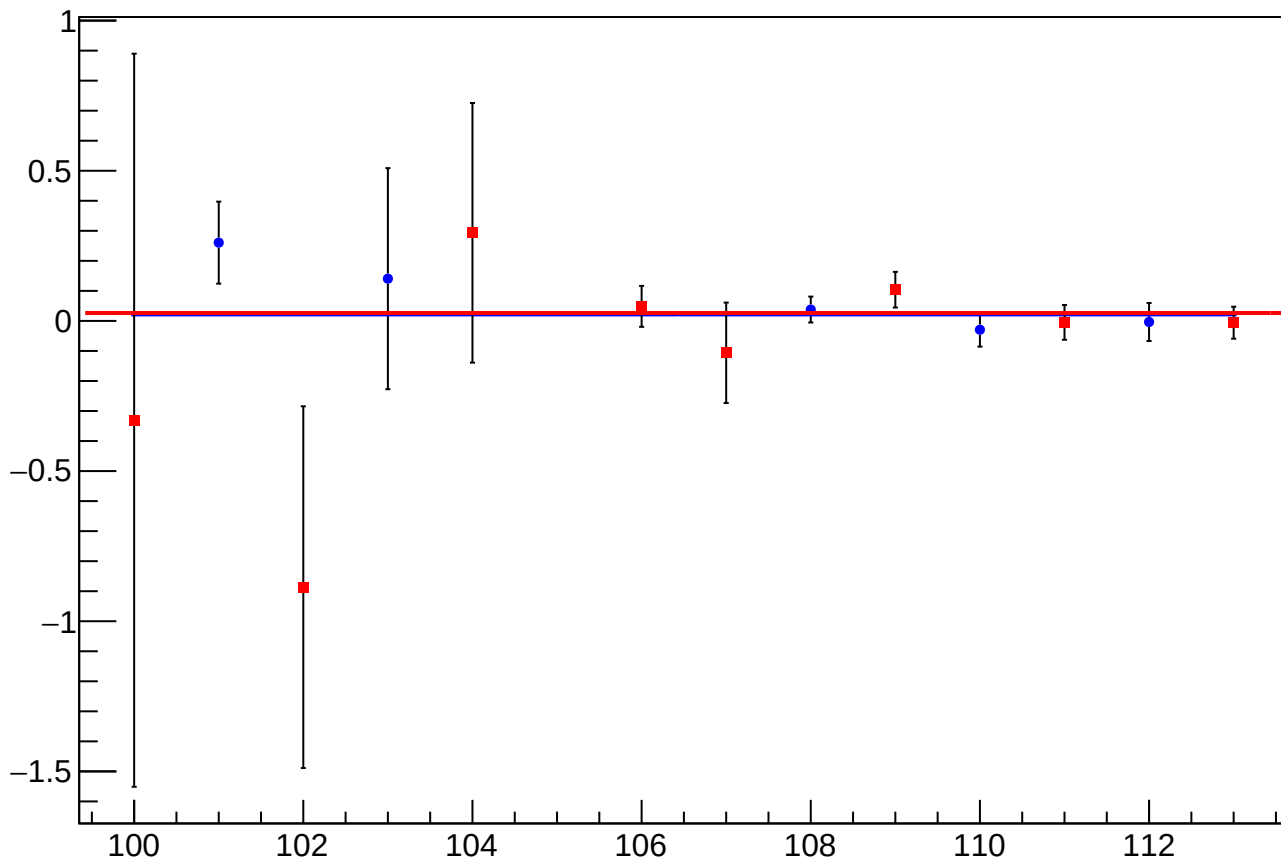
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 895489.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.022 $\pm$ 0.029  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.026 $\pm$ 0.029  $\chi^2$ /NDF: 5.9/7

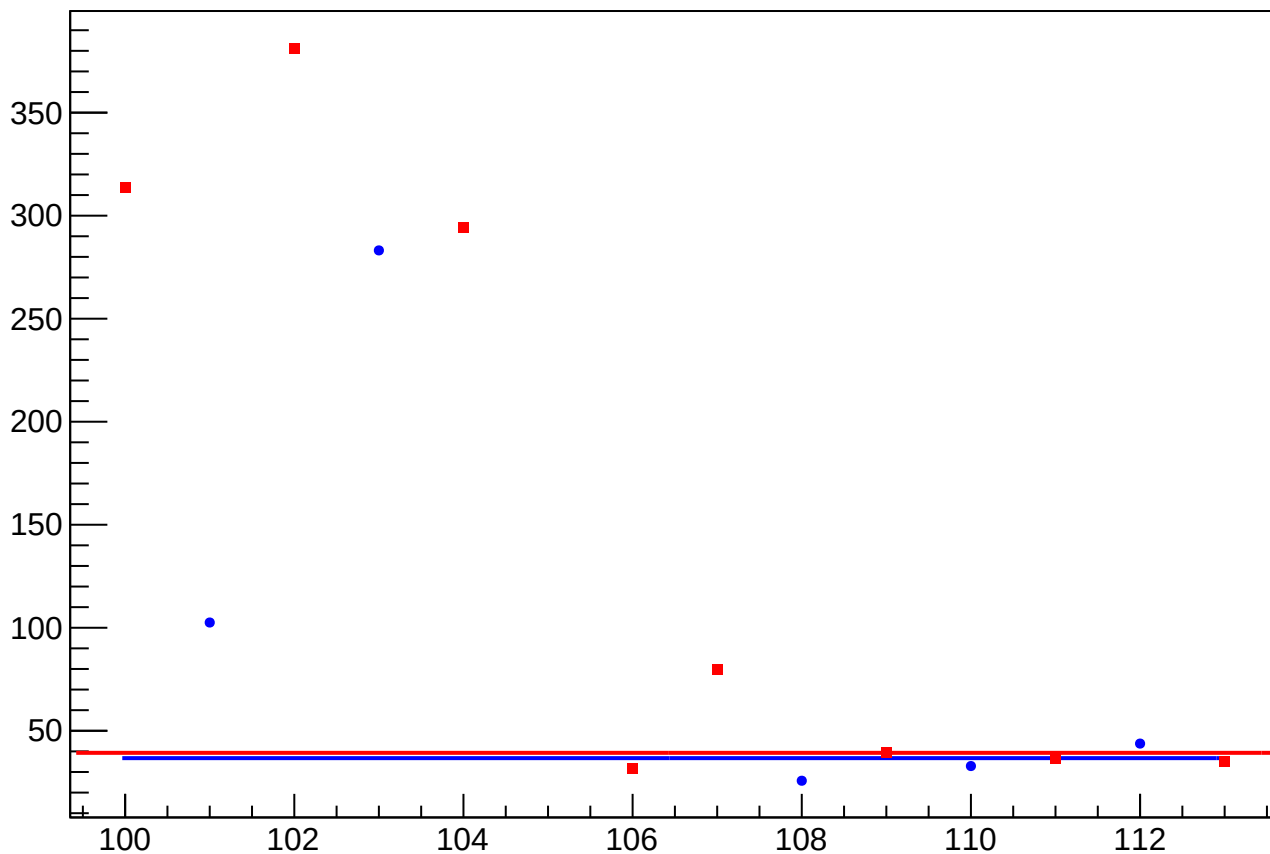
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.021  $\chi^2$ /NDF: 10.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 36.720 $\pm$ 0.021  $\chi^2$ /NDF: 1524187.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 39.301 $\pm$ 0.020  $\chi^2$ /NDF: 1599394.5/7

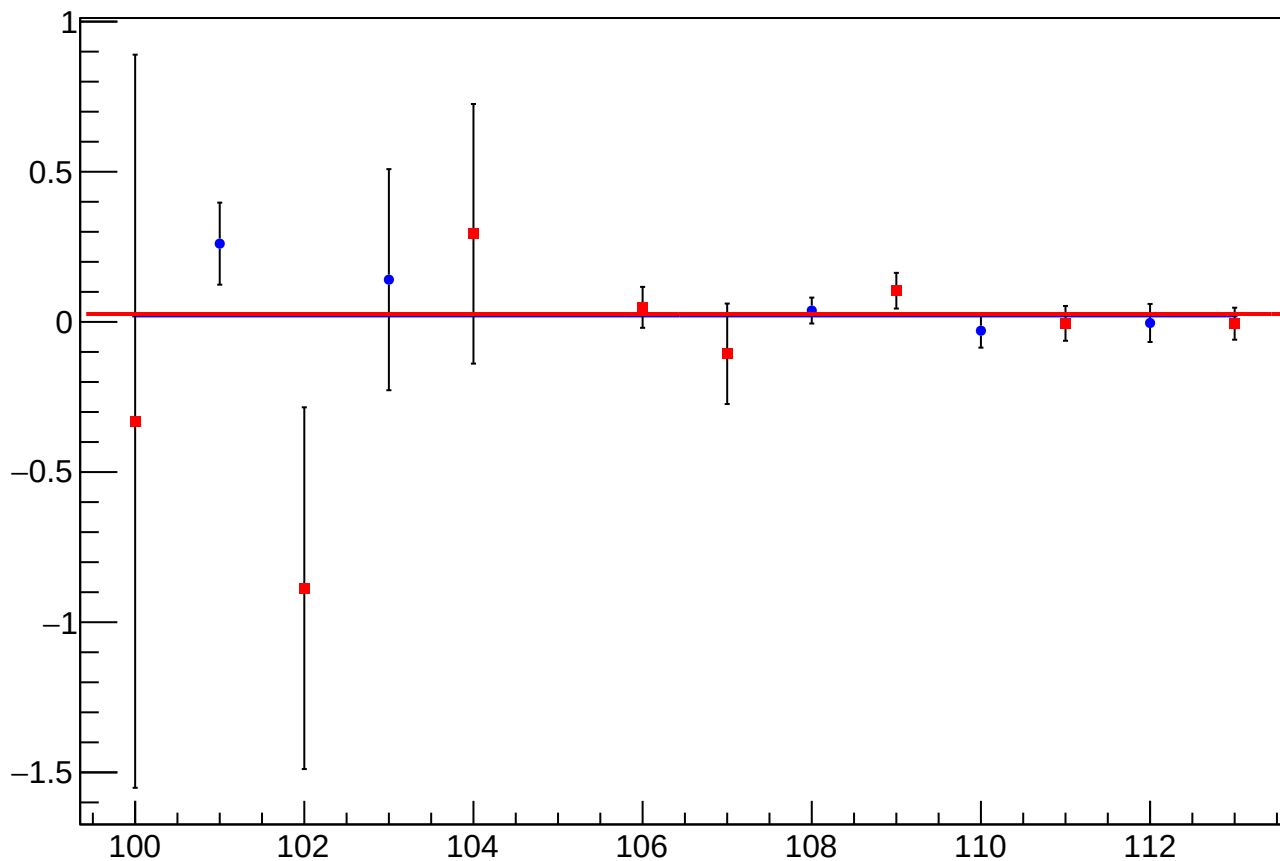
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 38.027 $\pm$ 0.015  $\chi^2$ /NDF: 3131431.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.022 $\pm$ 0.029  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.026 $\pm$ 0.029  $\chi^2$ /NDF: 5.9/7

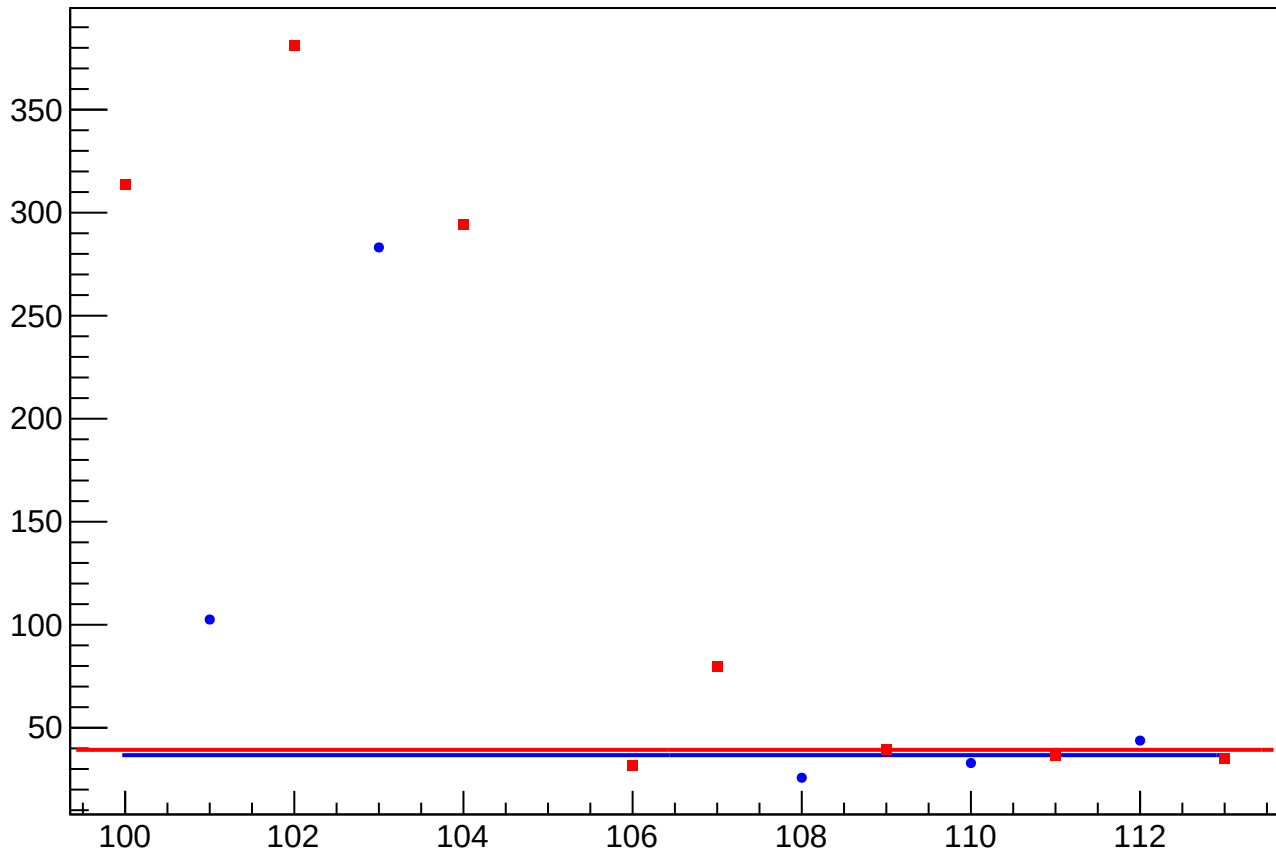
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.021  $\chi^2$ /NDF: 10.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 36.720 $\pm$ 0.021  $\chi^2$ /NDF: 1524187.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 39.301 $\pm$ 0.020  $\chi^2$ /NDF: 1599394.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

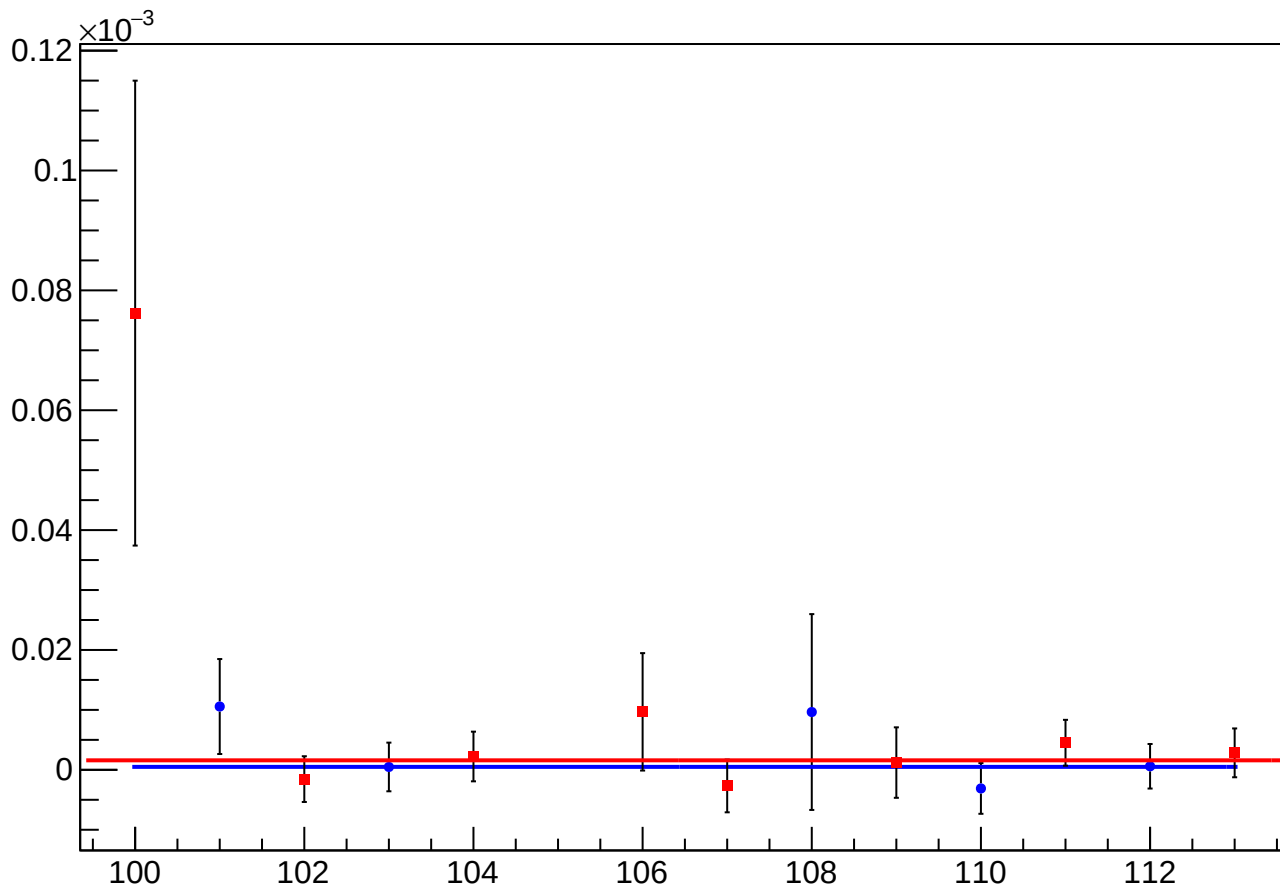
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 38.027 $\pm$ 0.015  $\chi^2$ /NDF: 3131431.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.7/7

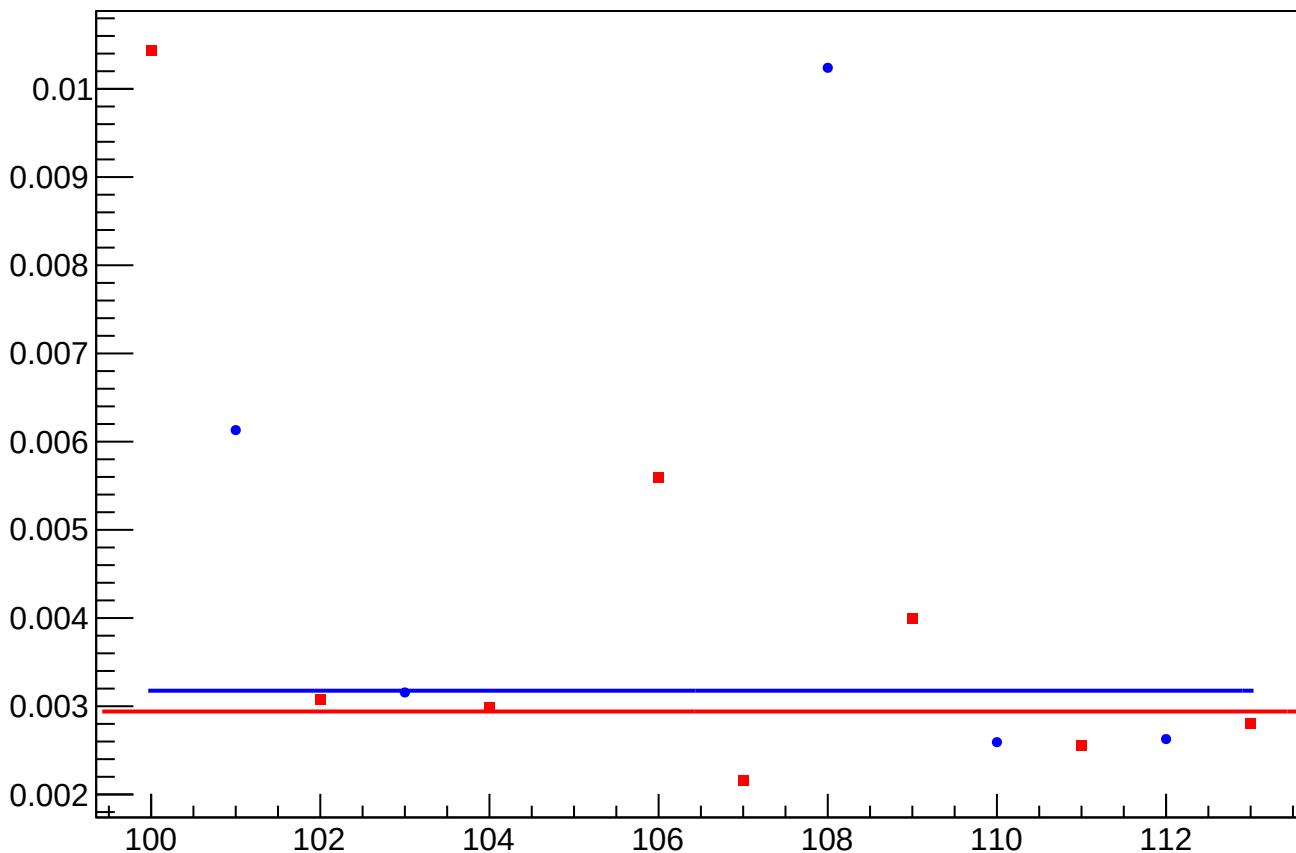
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 733609.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 373938.5/7

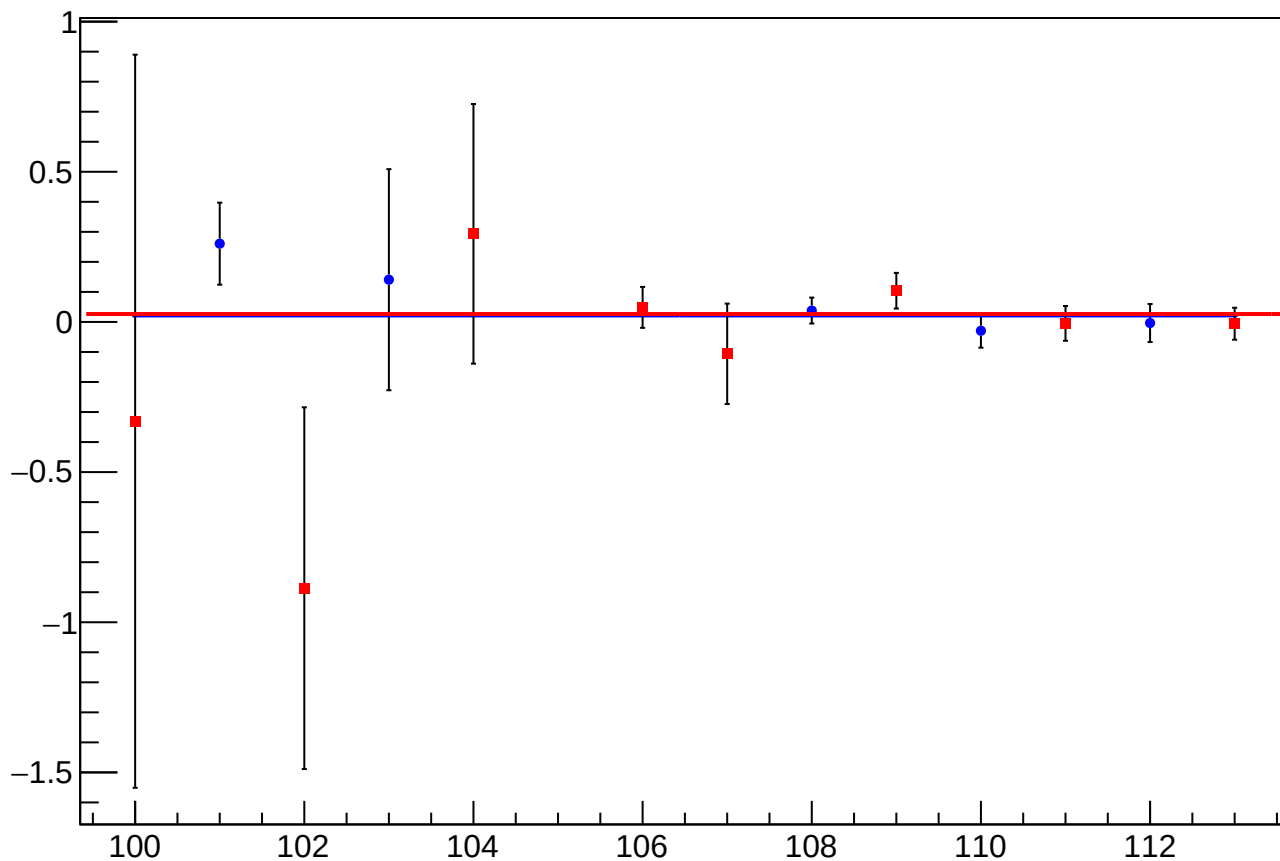
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1122027.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.022 $\pm$ 0.029  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.026 $\pm$ 0.029  $\chi^2$ /NDF: 5.9/7

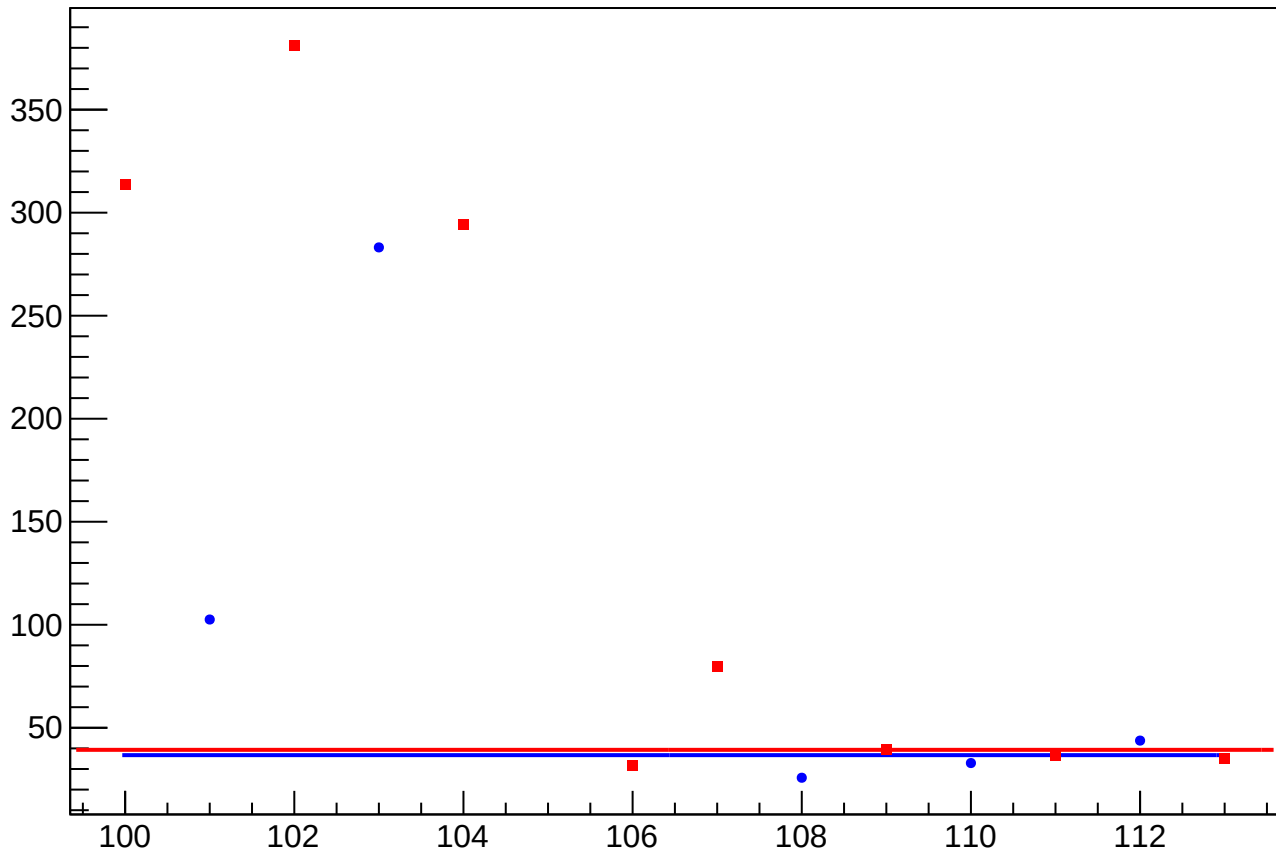
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.021  $\chi^2$ /NDF: 10.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 36.723+/-0.021  $\chi^2/\text{NDF}$ : 1524099.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.301+/-0.020  $\chi^2/\text{NDF}$ : 1599383.5/7

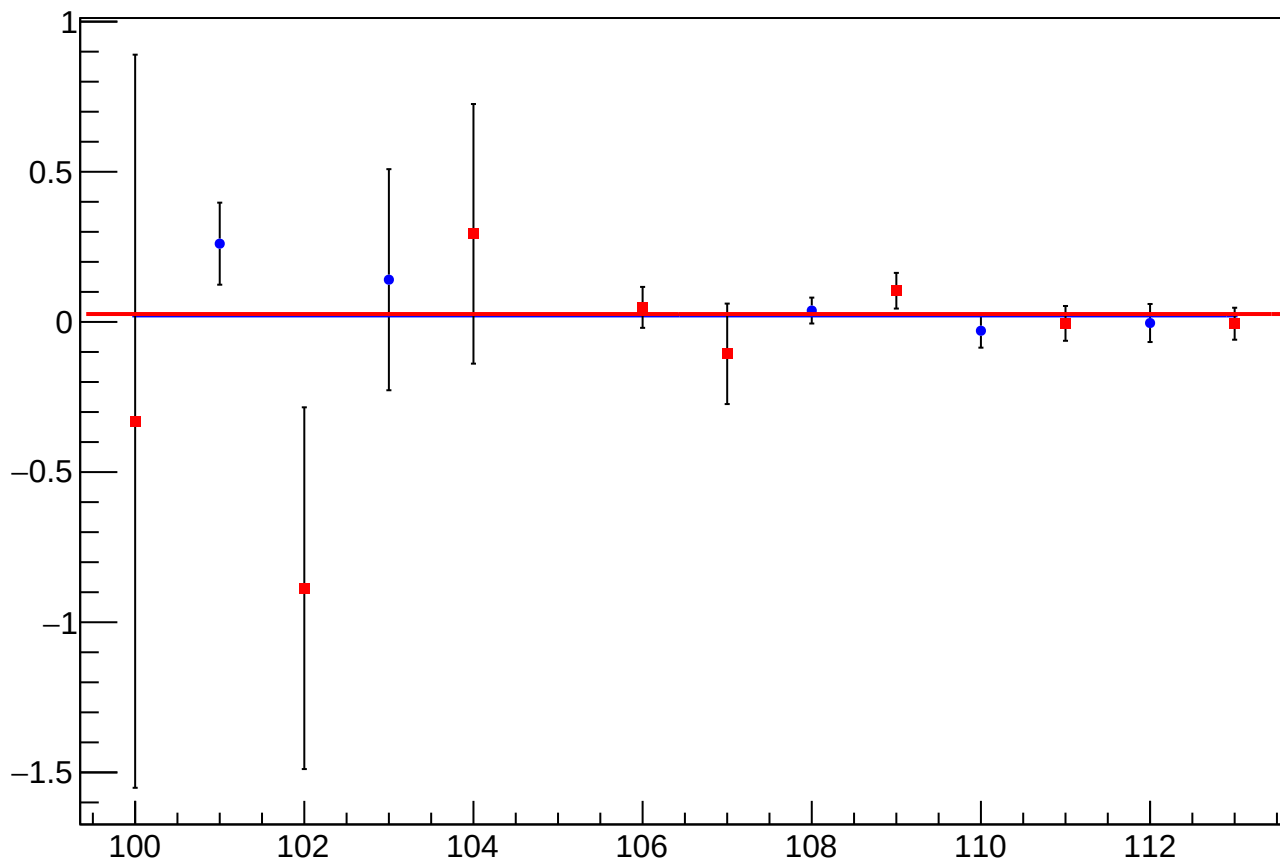
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.028+/-0.015  $\chi^2/\text{NDF}$ : 3131319.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.022 $\pm$ 0.029  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.026 $\pm$ 0.029  $\chi^2$ /NDF: 5.9/7

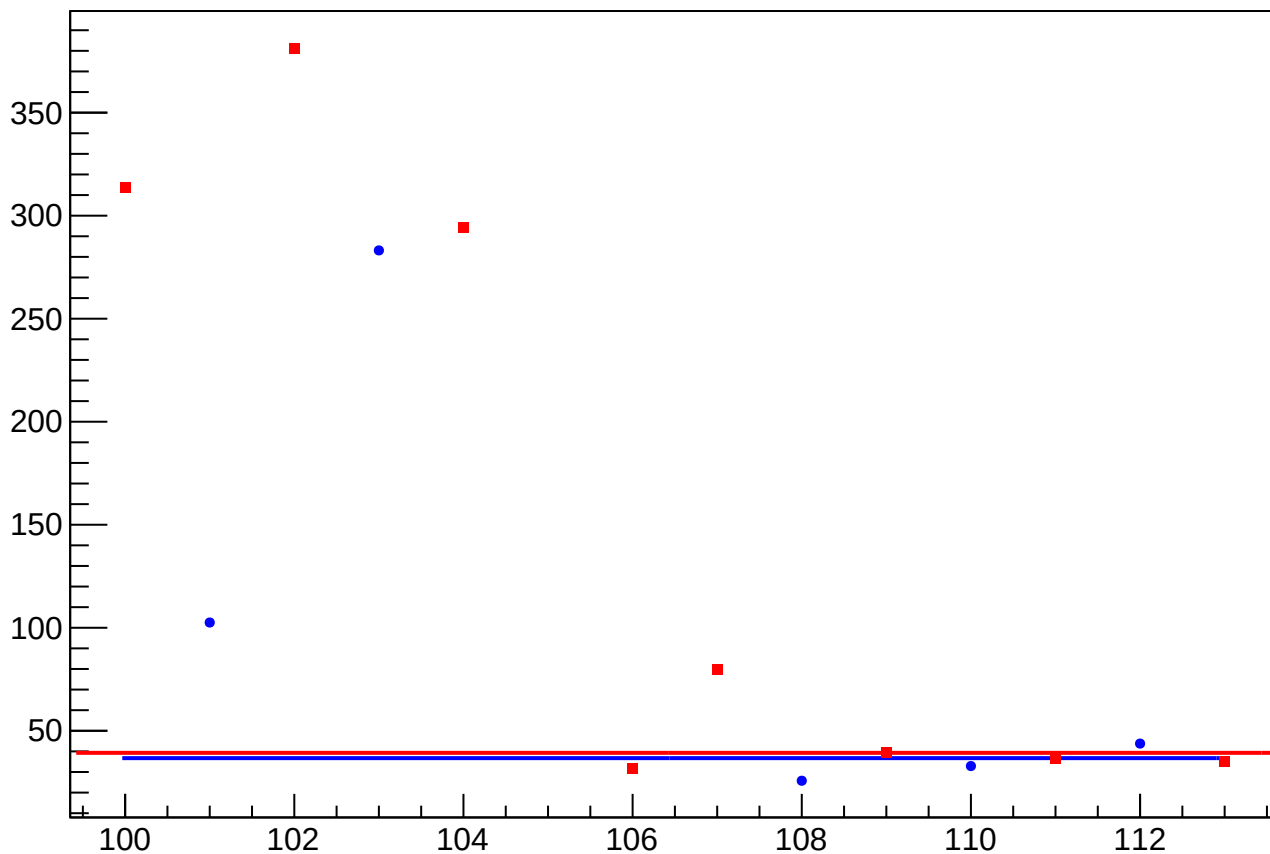
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.021  $\chi^2$ /NDF: 10.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 36.723+/-0.021  $\chi^2/\text{NDF}$ : 1524099.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.301+/-0.020  $\chi^2/\text{NDF}$ : 1599383.5/7

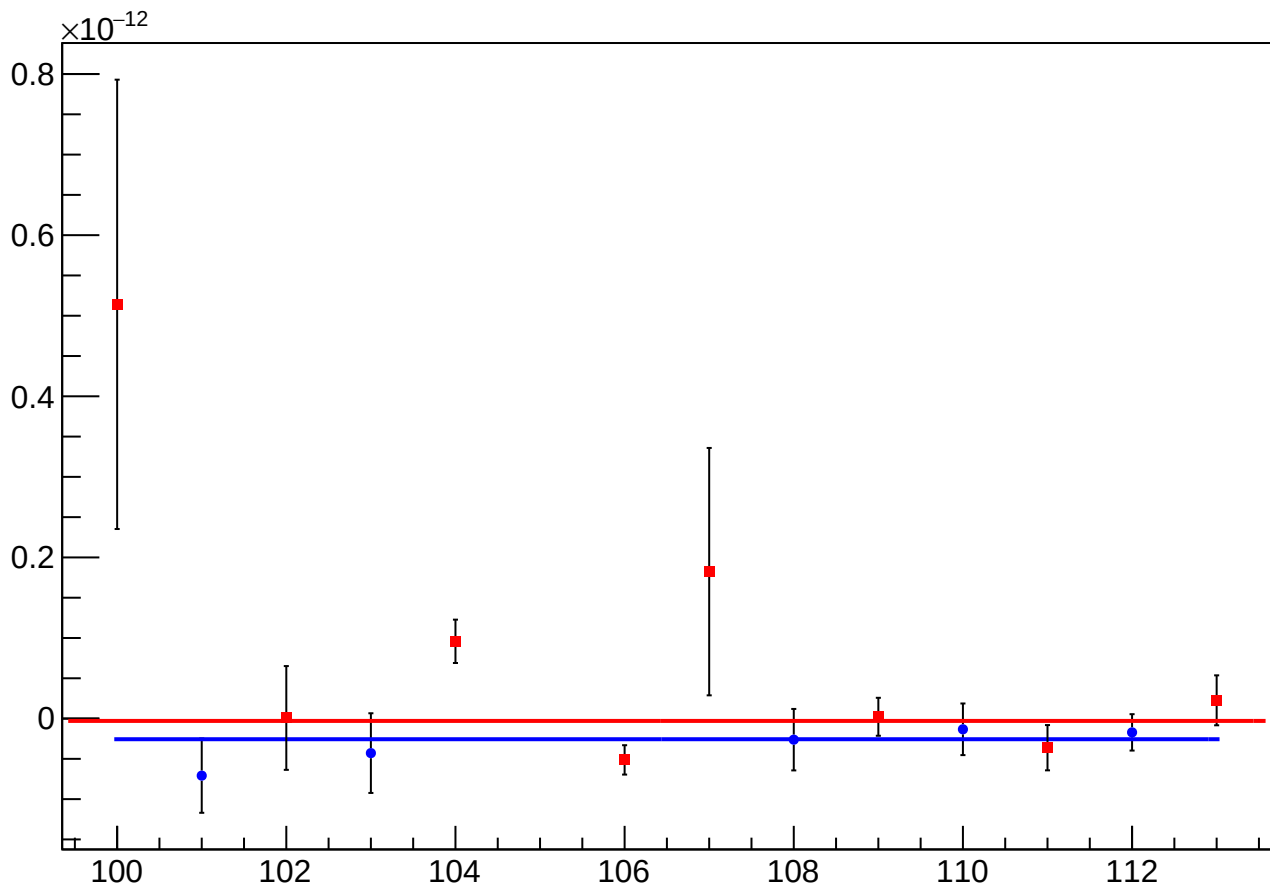
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.028+/-0.015  $\chi^2/\text{NDF}$ : 3131319.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 27.5/7

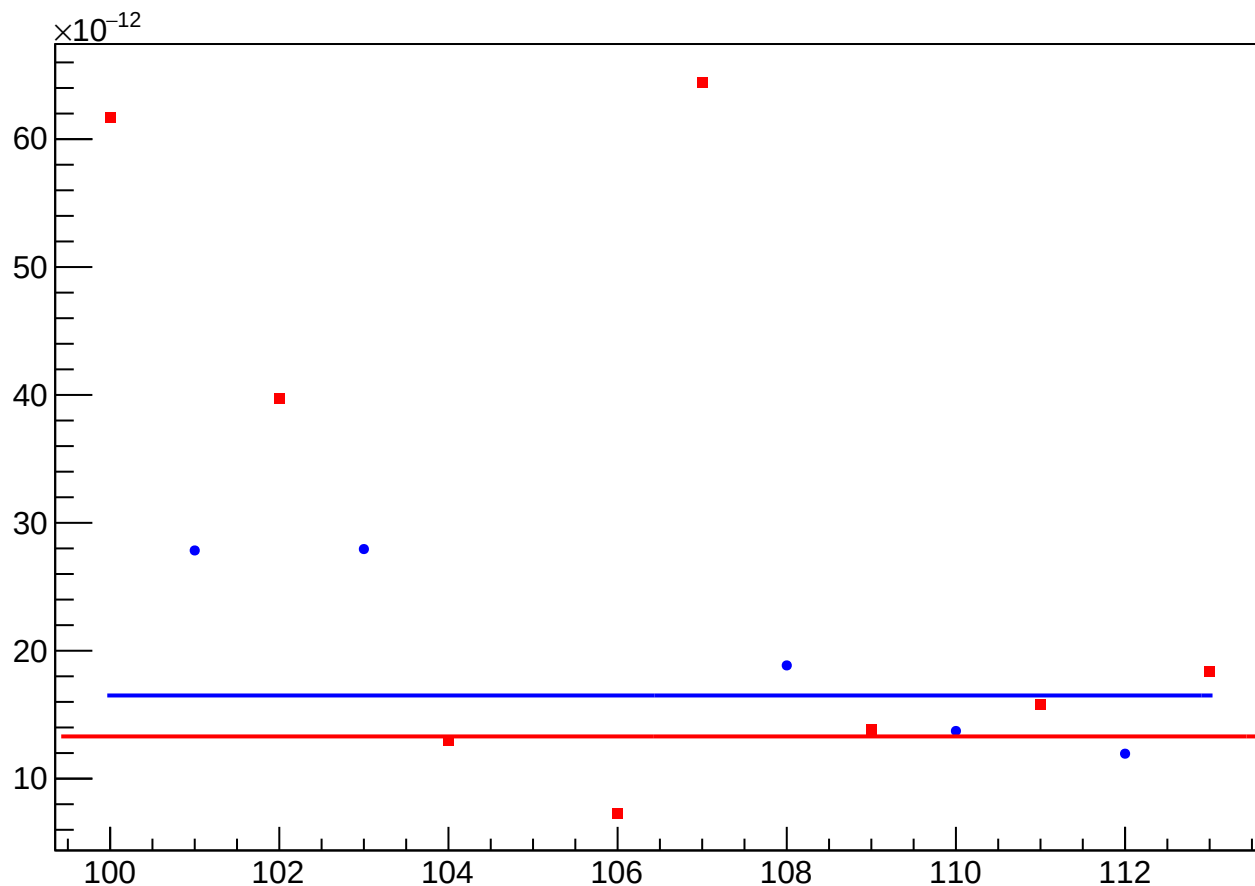
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 30.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 331880.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 909950.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

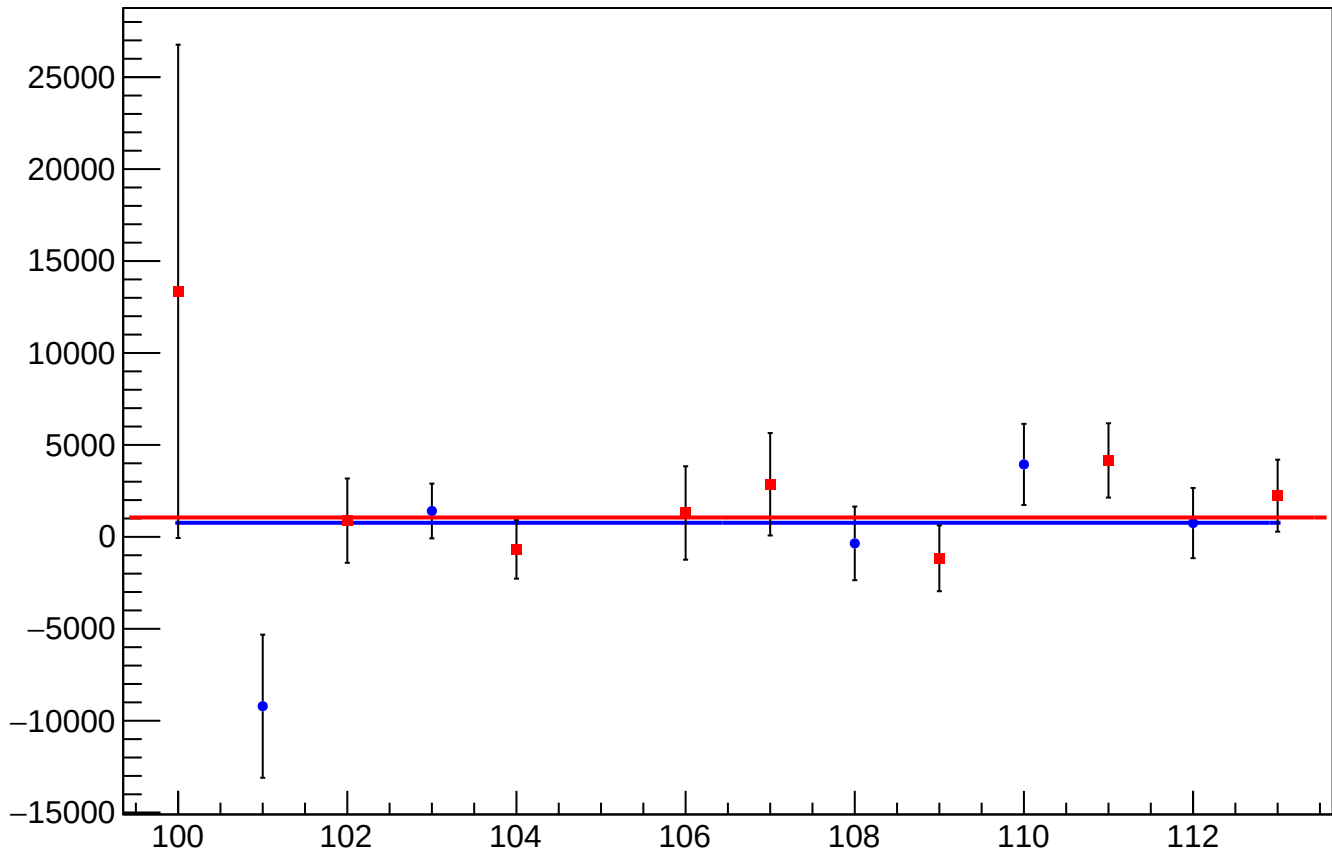
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1302880.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 765.583+/-895.778  $\chi^2/\text{NDF}$ : 9.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1054.210+/-769.011  $\chi^2/\text{NDF}$ : 6.7/7

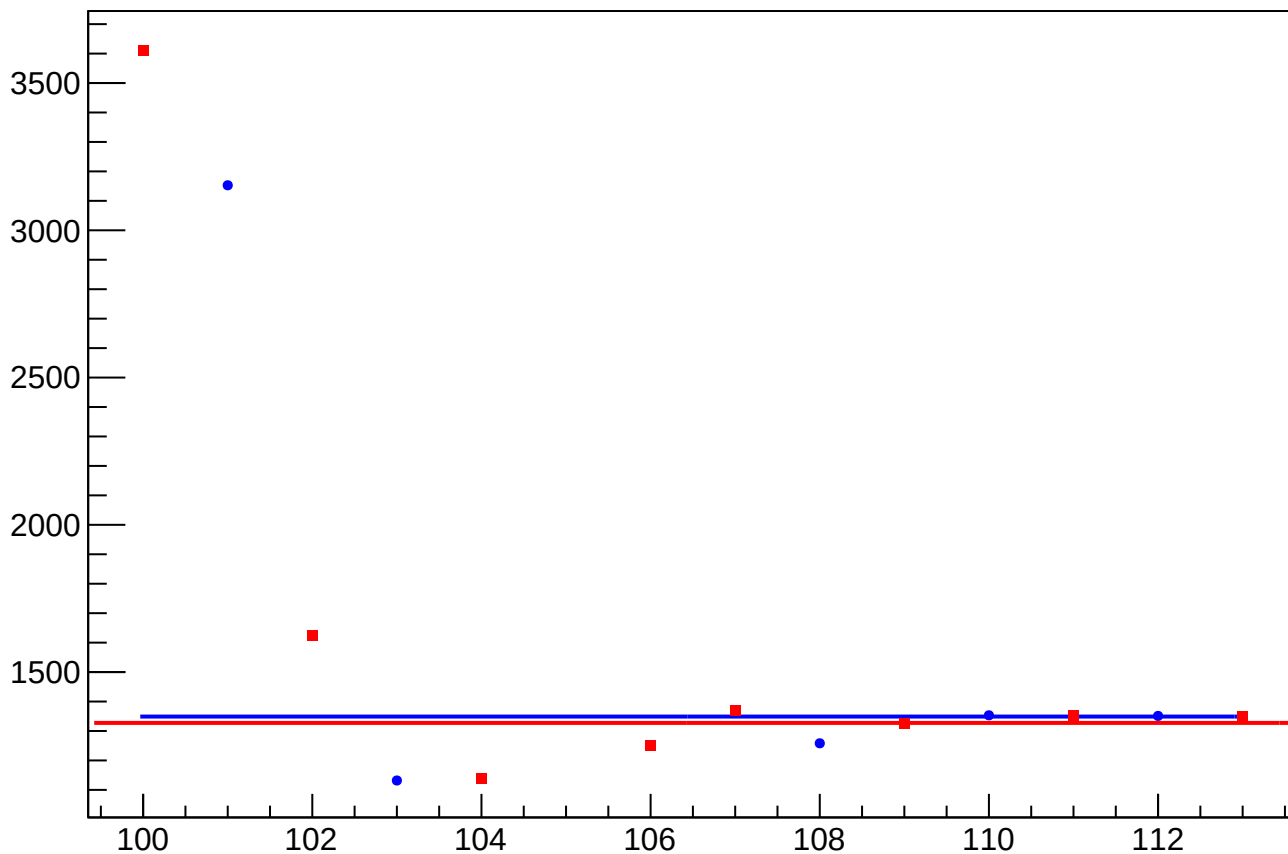
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 931.747+/-583.490  $\chi^2/\text{NDF}$ : 15.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1348.976 $\pm$ 0.633  $\chi^2$ /NDF: 476000.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1327.452 $\pm$ 0.544  $\chi^2$ /NDF: 121837.7/7

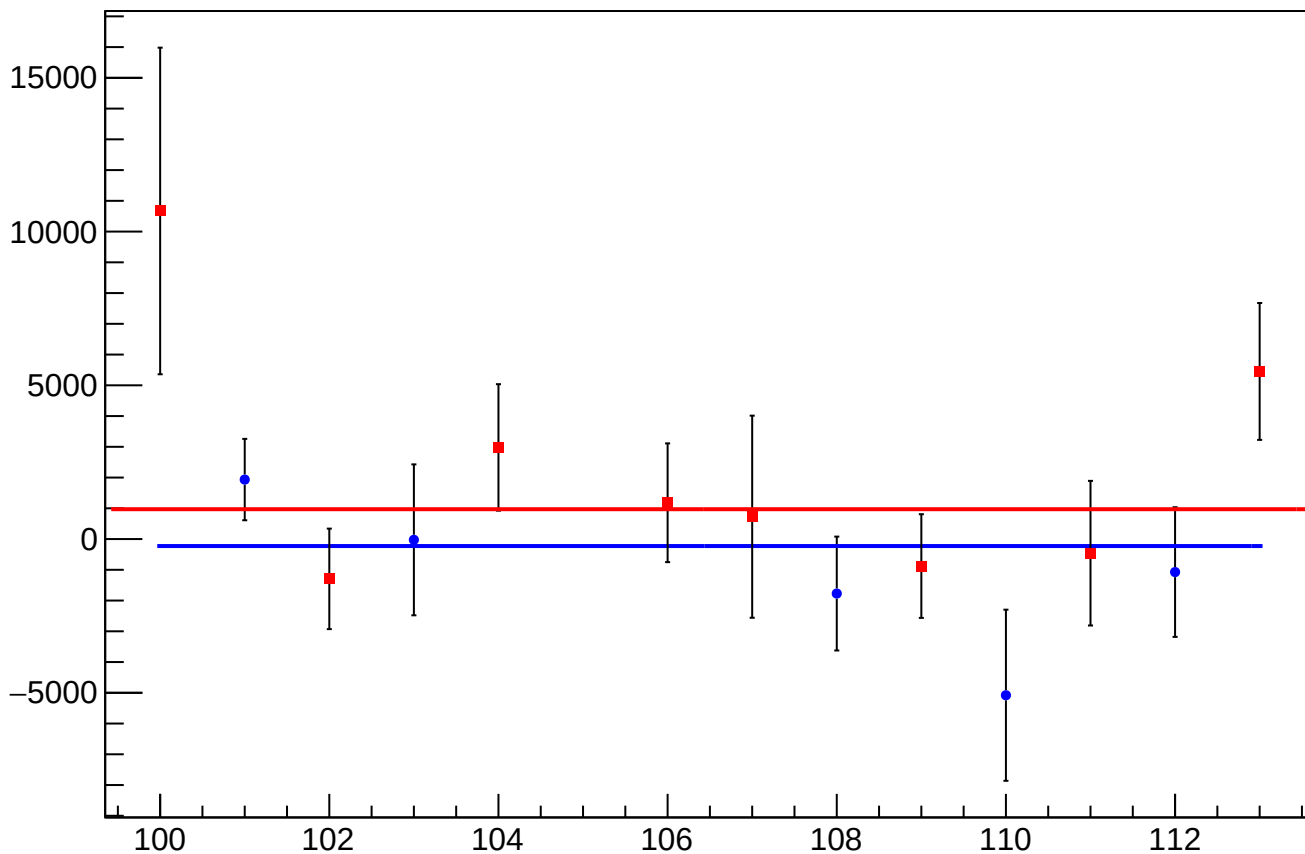
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1336.585 $\pm$ 0.413  $\chi^2$ /NDF: 598502.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_reg\_correction\_mean vs Slug



Right In: -227.352+/-850.449  $\chi^2/\text{NDF}$ : 6.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 970.620+/-757.814  $\chi^2/\text{NDF}$ : 11.9/7

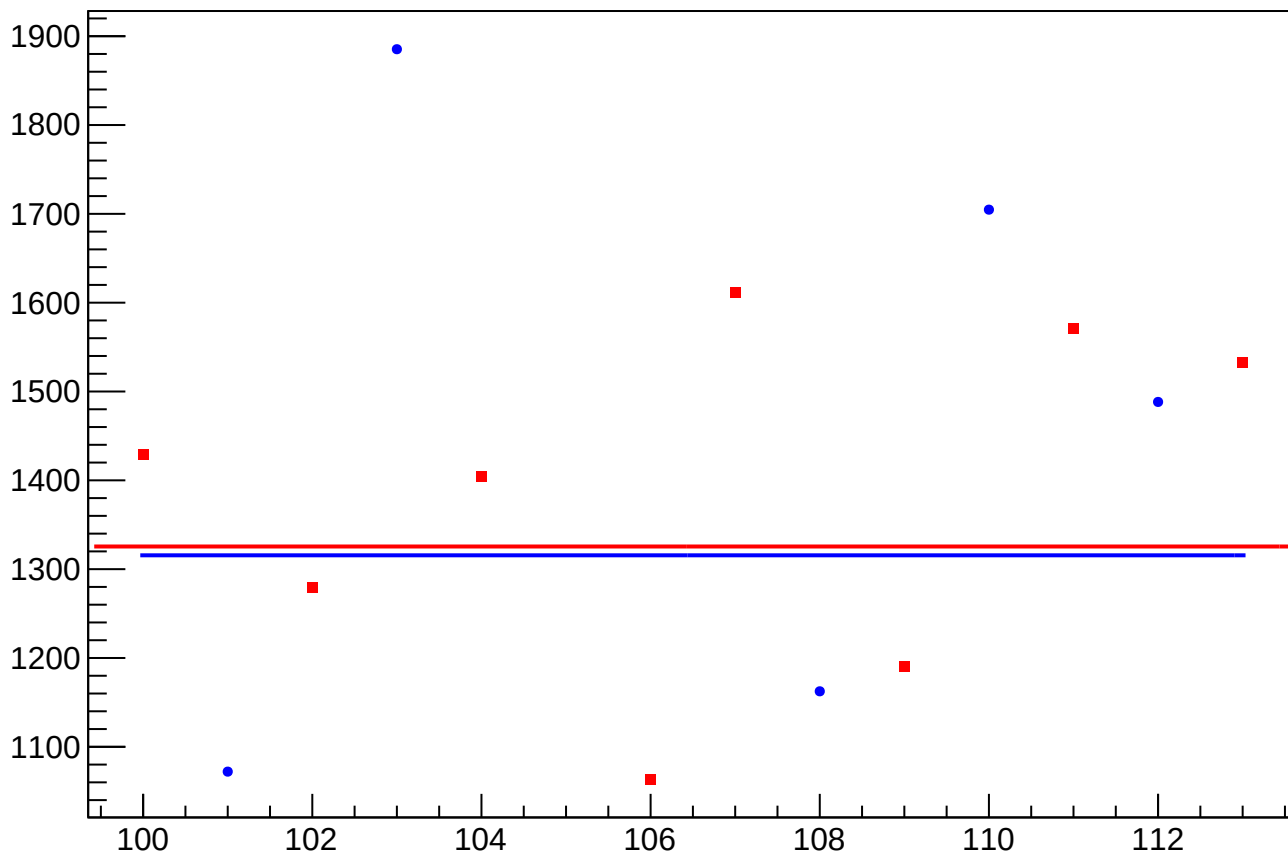
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 440.409+/-565.783  $\chi^2/\text{NDF}$ : 19.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_reg\_correction\_rms vs Slug



Right In: 1315.592 $\pm$ 0.601  $\chi^2$ /NDF: 241675.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1325.516 $\pm$ 0.536  $\chi^2$ /NDF: 109104.6/7

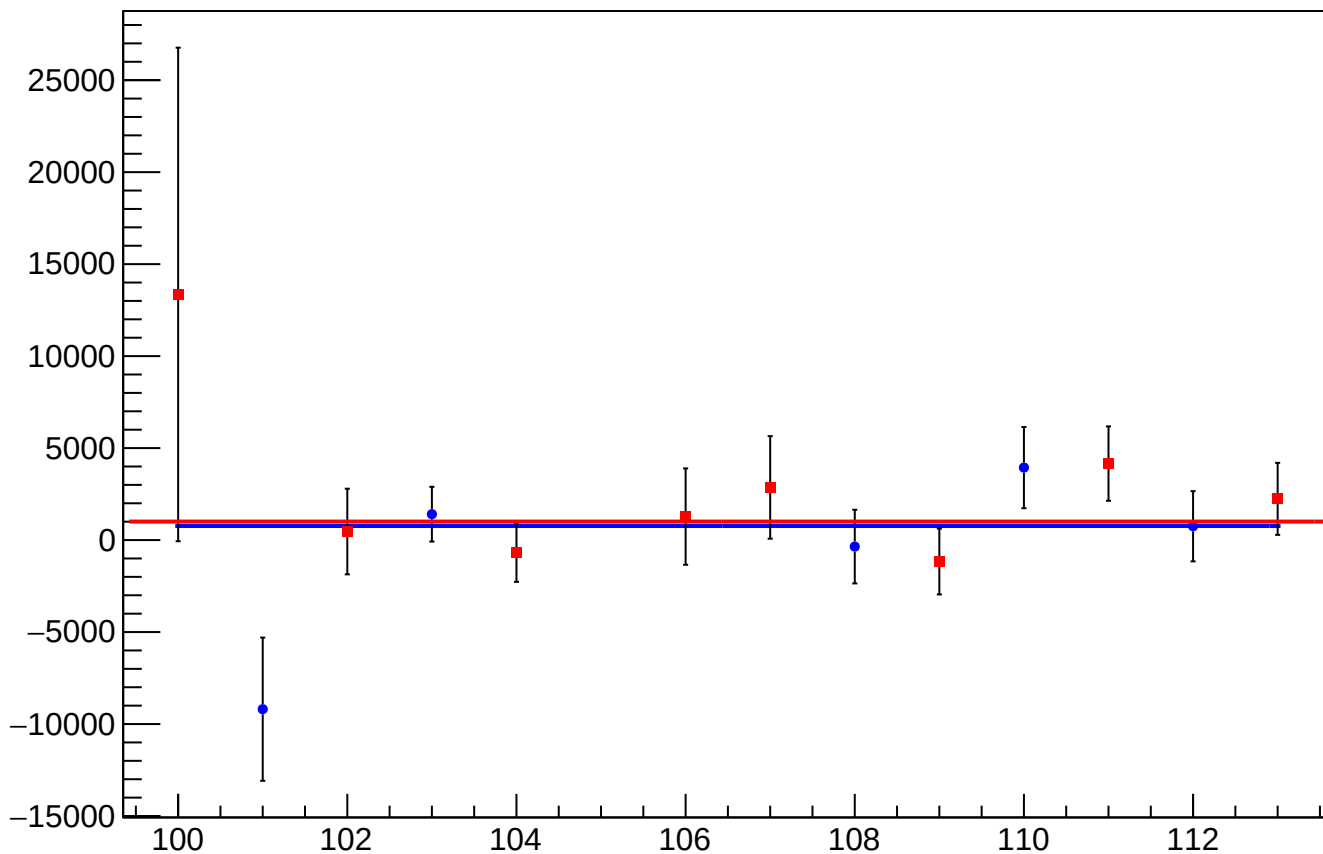
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1321.124 $\pm$ 0.400  $\chi^2$ /NDF: 350932.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 766.495 $\pm$ 895.778  $\chi^2$ /NDF: 9.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1006.047 $\pm$ 772.375  $\chi^2$ /NDF: 6.8/7

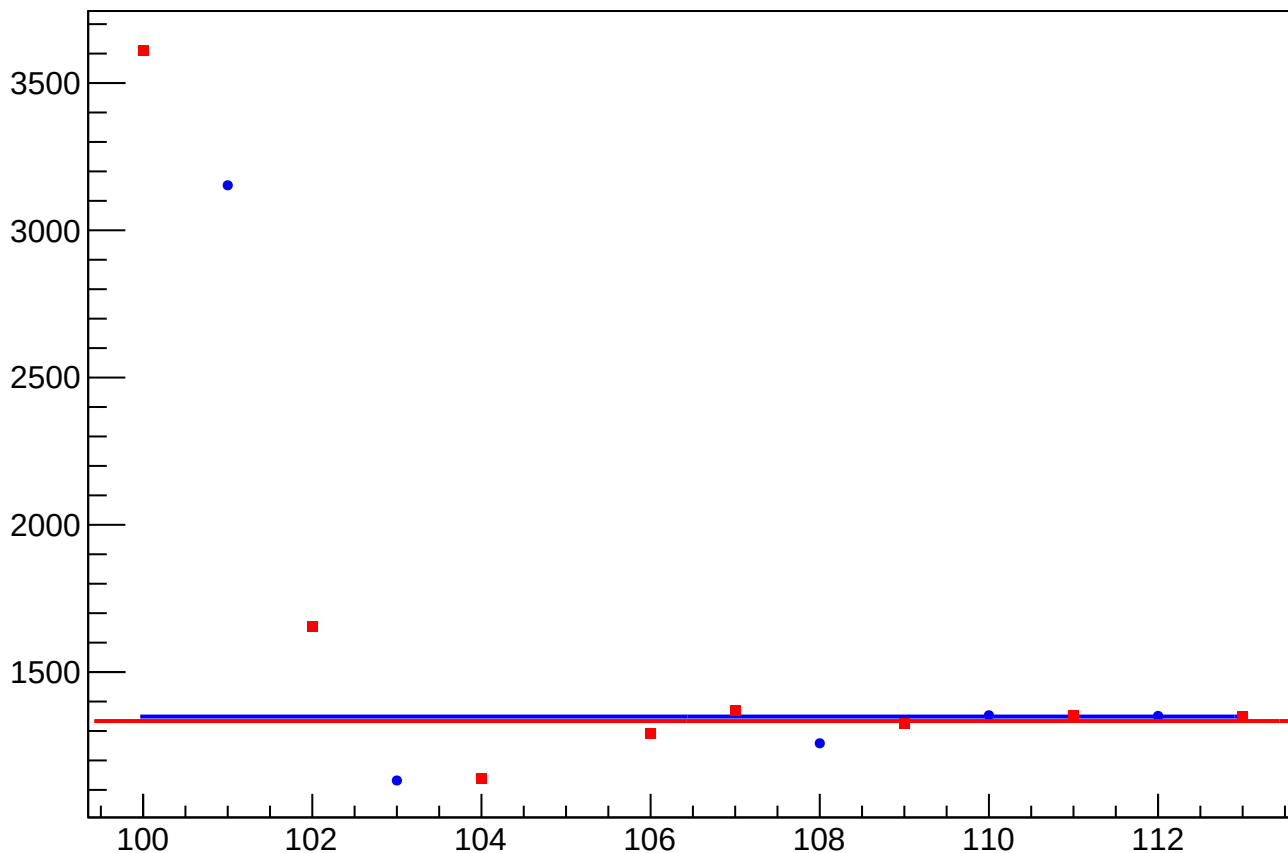
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 903.895 $\pm$ 584.955  $\chi^2$ /NDF: 15.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1348.976 $\pm$ 0.633  $\chi^2$ /NDF: 476002.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1333.742 $\pm$ 0.546  $\chi^2$ /NDF: 126564.5/7

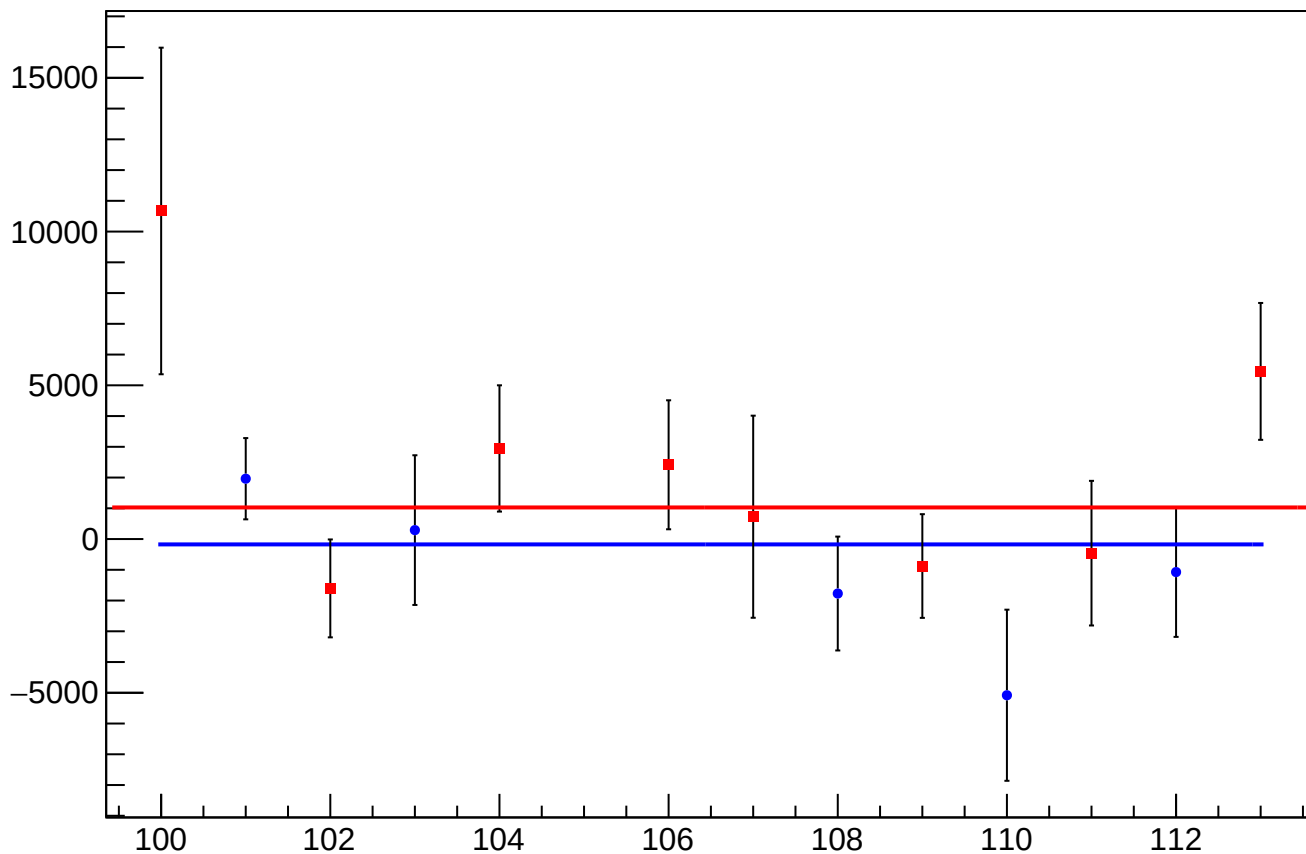
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1340.238 $\pm$ 0.414  $\chi^2$ /NDF: 602898.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_cor\_correction\_mean vs Slug



Right In: -174.146+/-849.047  $\chi^2/\text{NDF}$ : 6.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1027.624+/-762.202  $\chi^2/\text{NDF}$ : 13.0/7

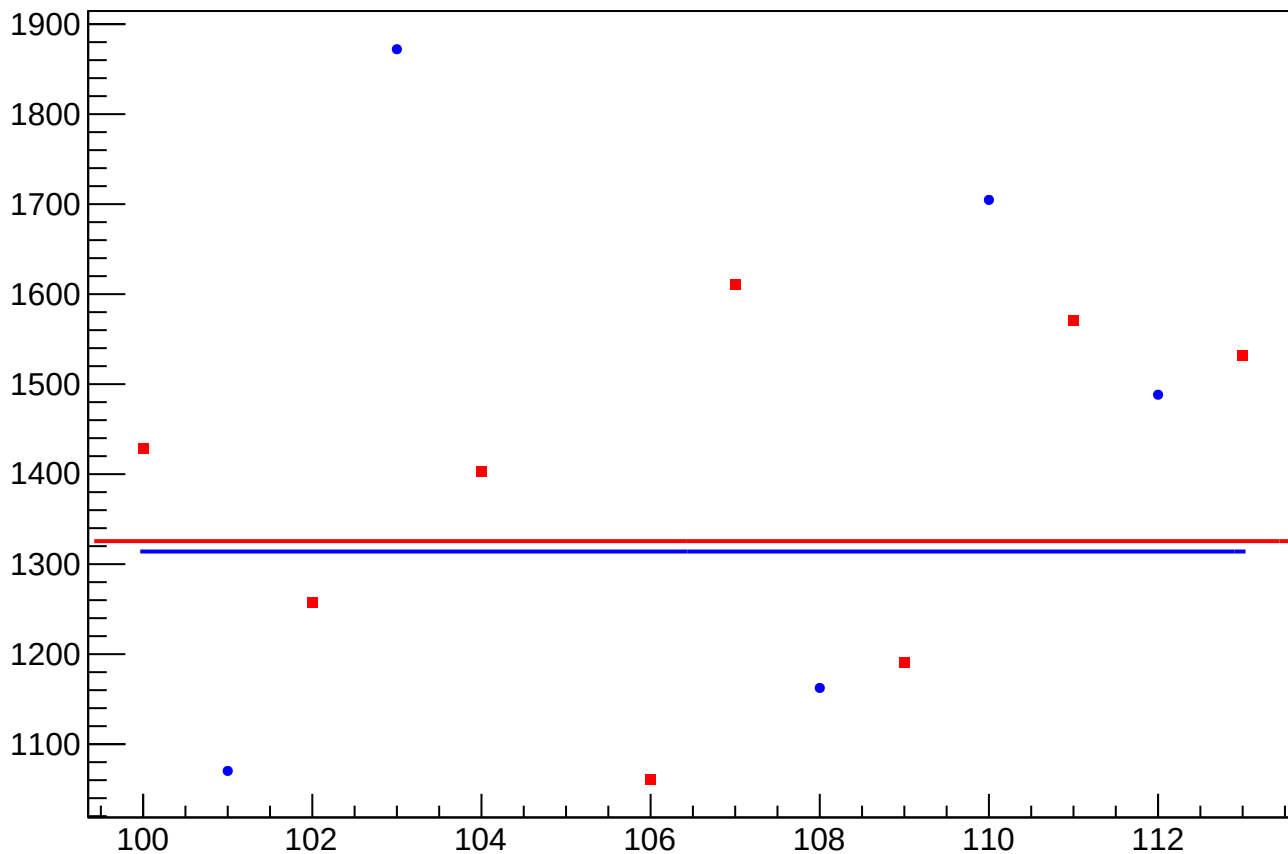
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 491.326+/-567.184  $\chi^2/\text{NDF}$ : 20.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_cor\_correction\_rms vs Slug



Right In: 1314.065+/-0.600  $\chi^2/\text{NDF}$ : 239656.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1325.579+/-0.539  $\chi^2/\text{NDF}$ : 106024.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

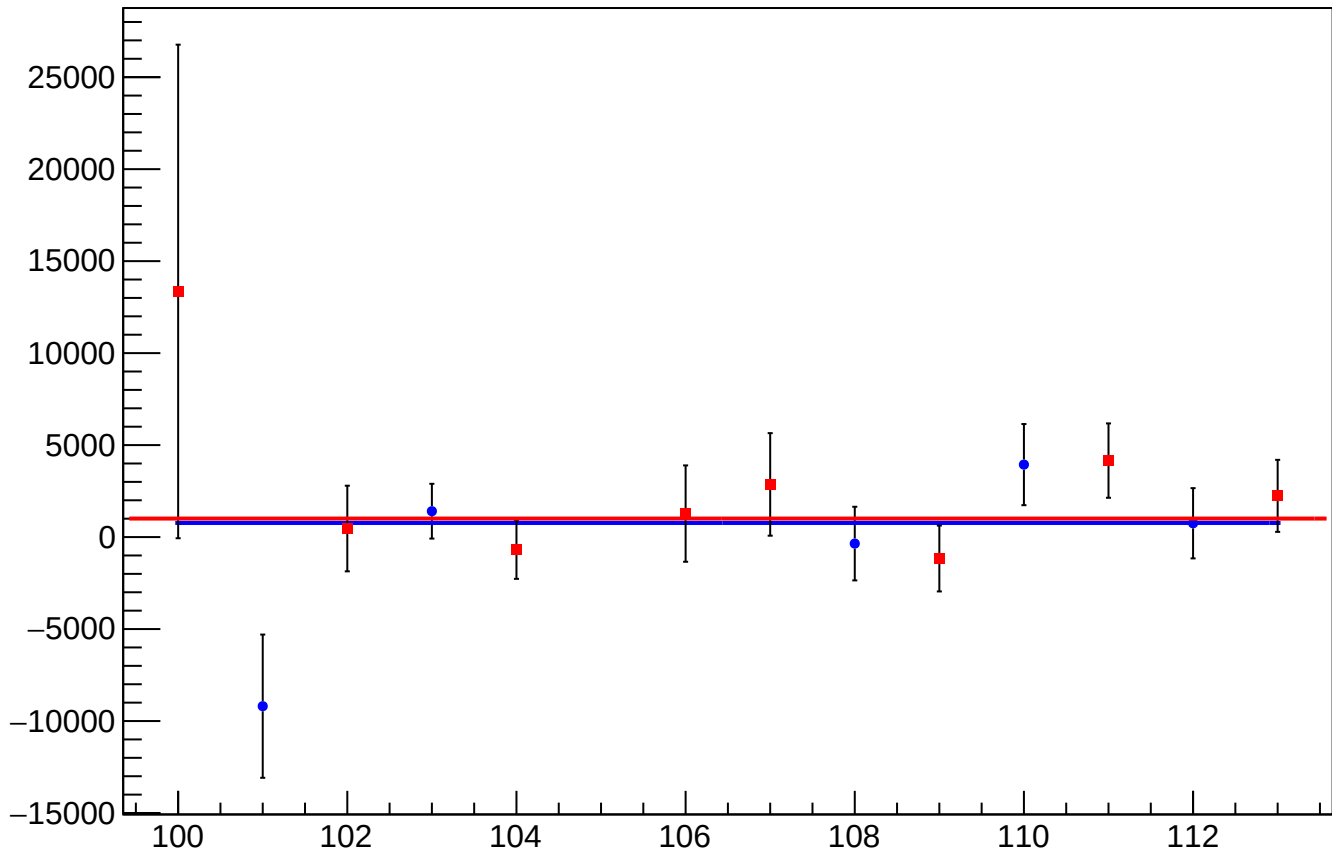
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1320.441+/-0.401  $\chi^2/\text{NDF}$ : 345884.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 766.495+/-895.778  $\chi^2/\text{NDF}$ : 9.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1006.047+/-772.375  $\chi^2/\text{NDF}$ : 6.8/7

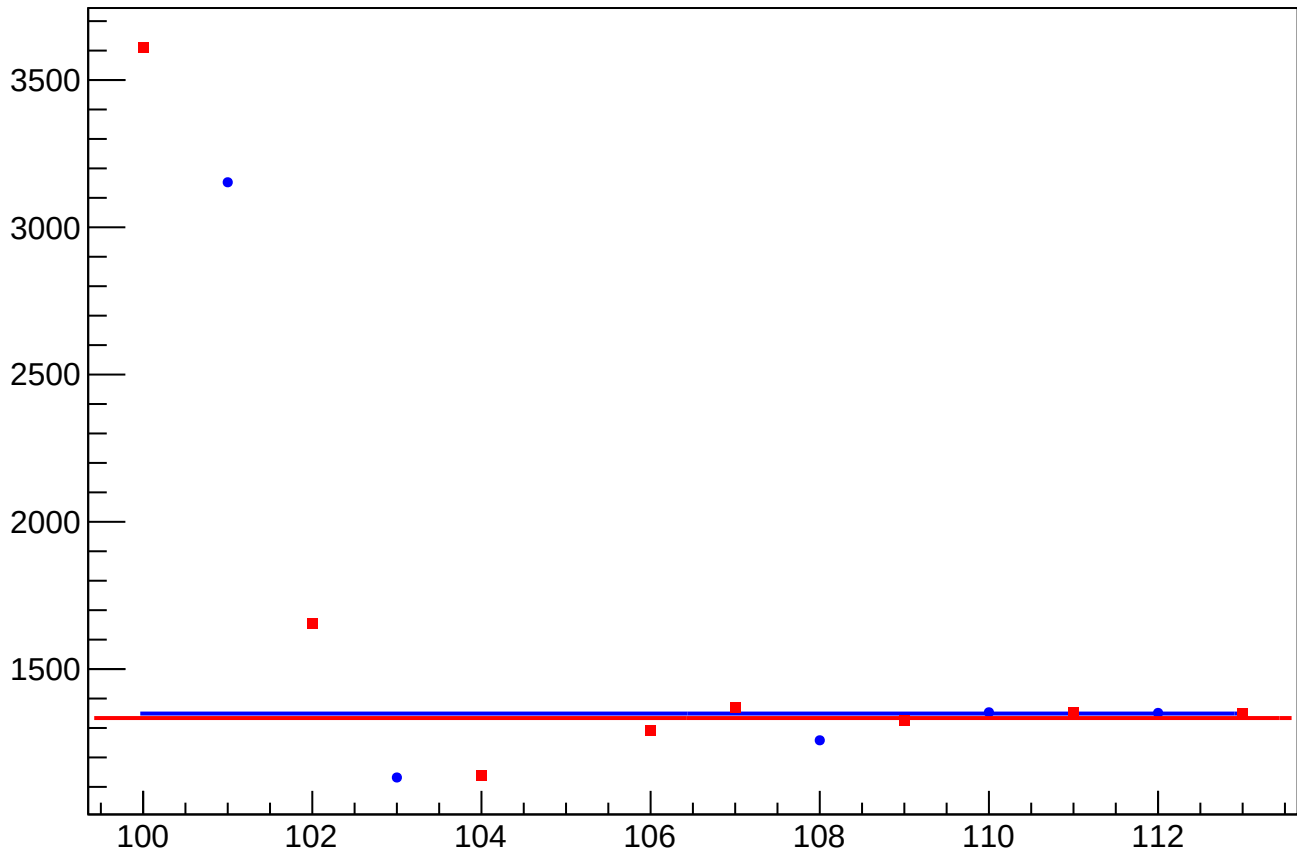
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 903.895+/-584.955  $\chi^2/\text{NDF}$ : 15.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1348.976 $\pm$ 0.633  $\chi^2$ /NDF: 476002.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

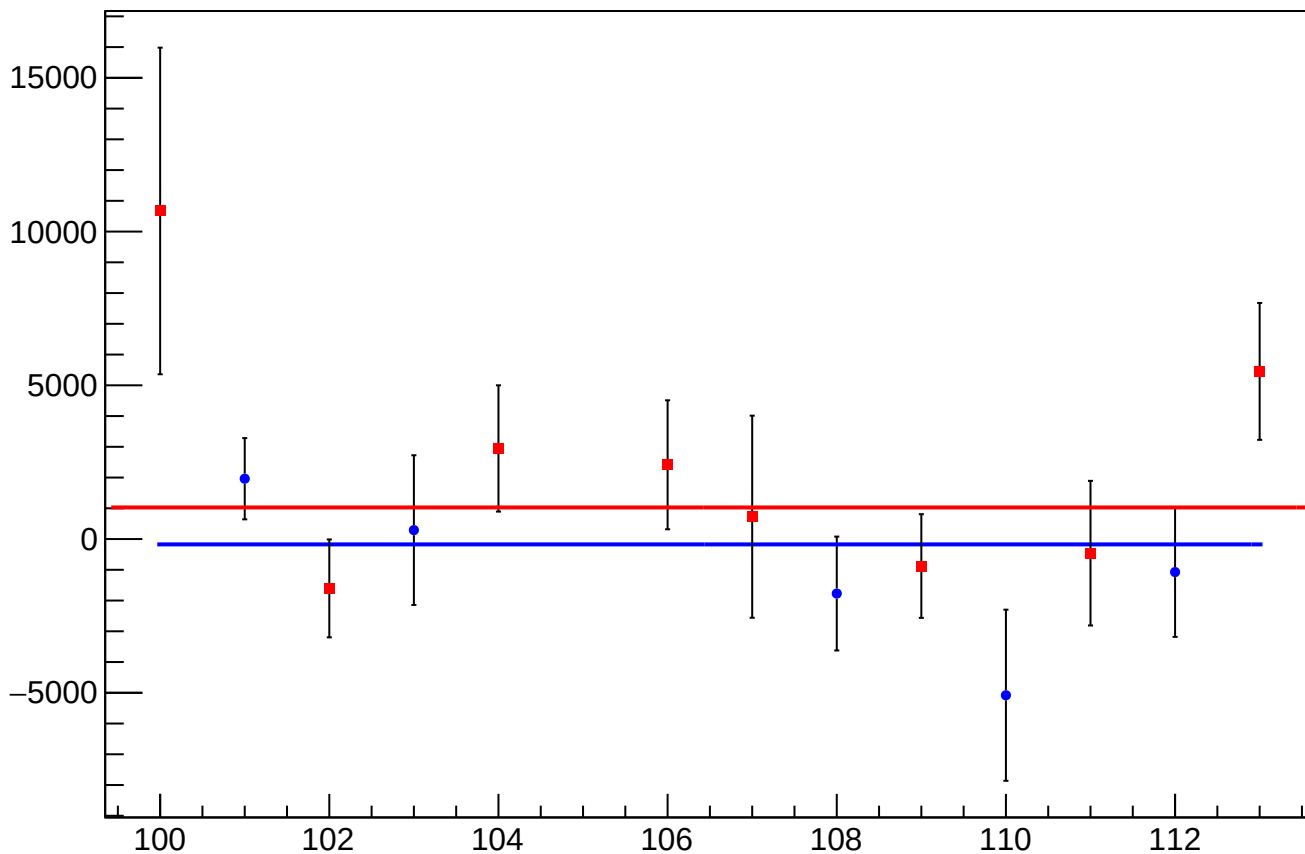
Right Out: 1333.742 $\pm$ 0.546  $\chi^2$ /NDF: 126564.5/7

All: 1340.238 $\pm$ 0.414  $\chi^2$ /NDF: 602898.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -174.146+/-849.047  $\chi^2/\text{NDF}$ : 6.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1027.624+/-762.202  $\chi^2/\text{NDF}$ : 13.0/7

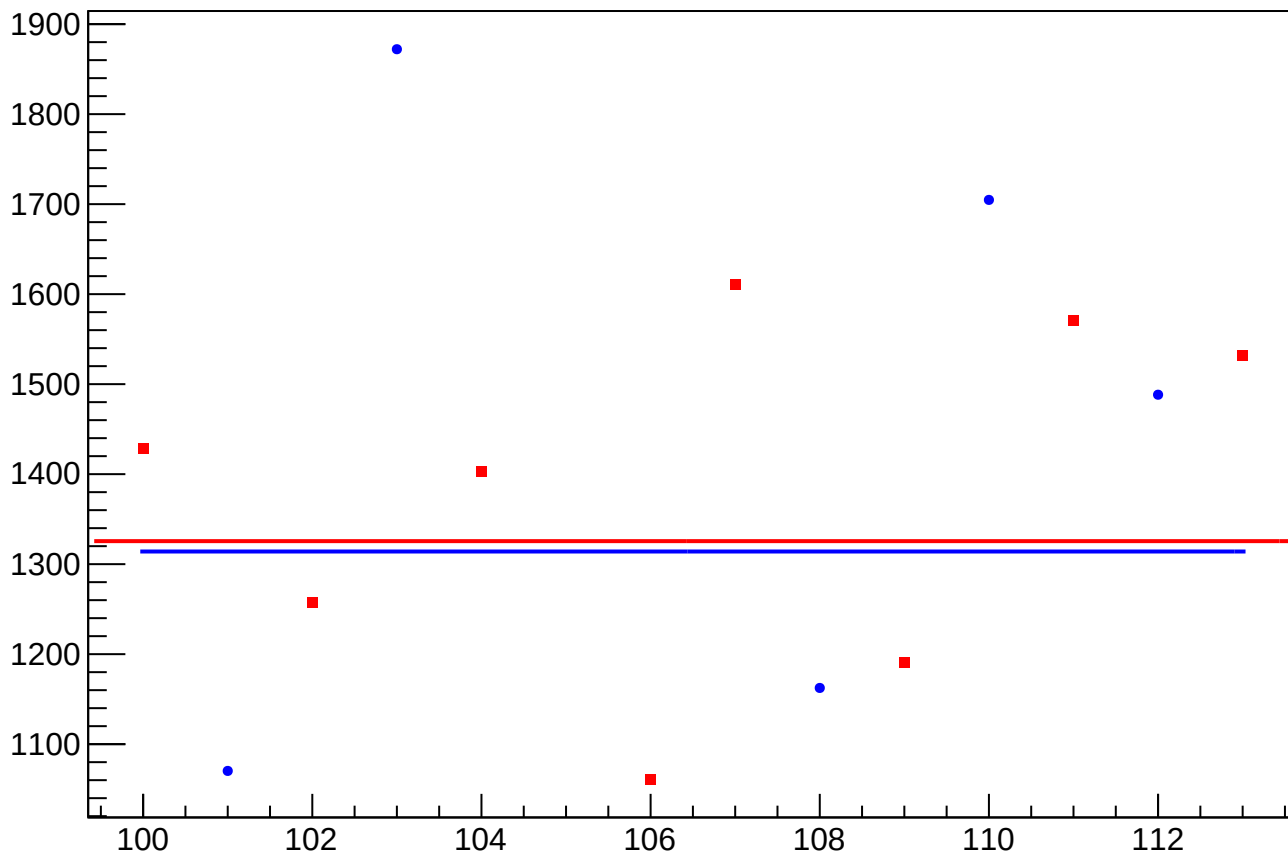
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 491.326+/-567.184  $\chi^2/\text{NDF}$ : 20.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1314.065+/-0.600  $\chi^2/\text{NDF}$ : 239656.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1325.579+/-0.539  $\chi^2/\text{NDF}$ : 106024.0/7

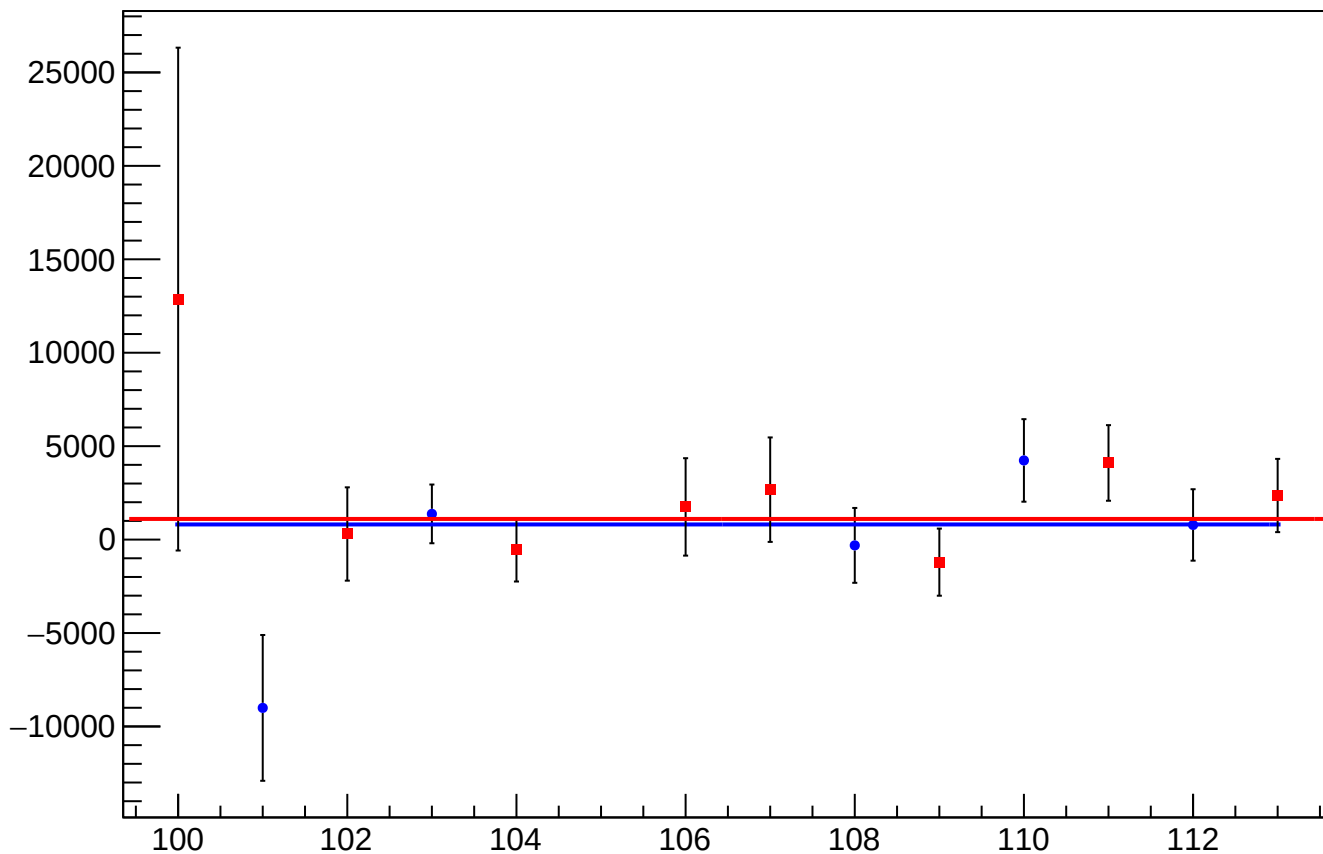
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1320.441+/-0.401  $\chi^2/\text{NDF}$ : 345884.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 810.245+/-913.370  $\chi^2/\text{NDF}$ : 9.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1105.096+/-789.921  $\chi^2/\text{NDF}$ : 6.5/7

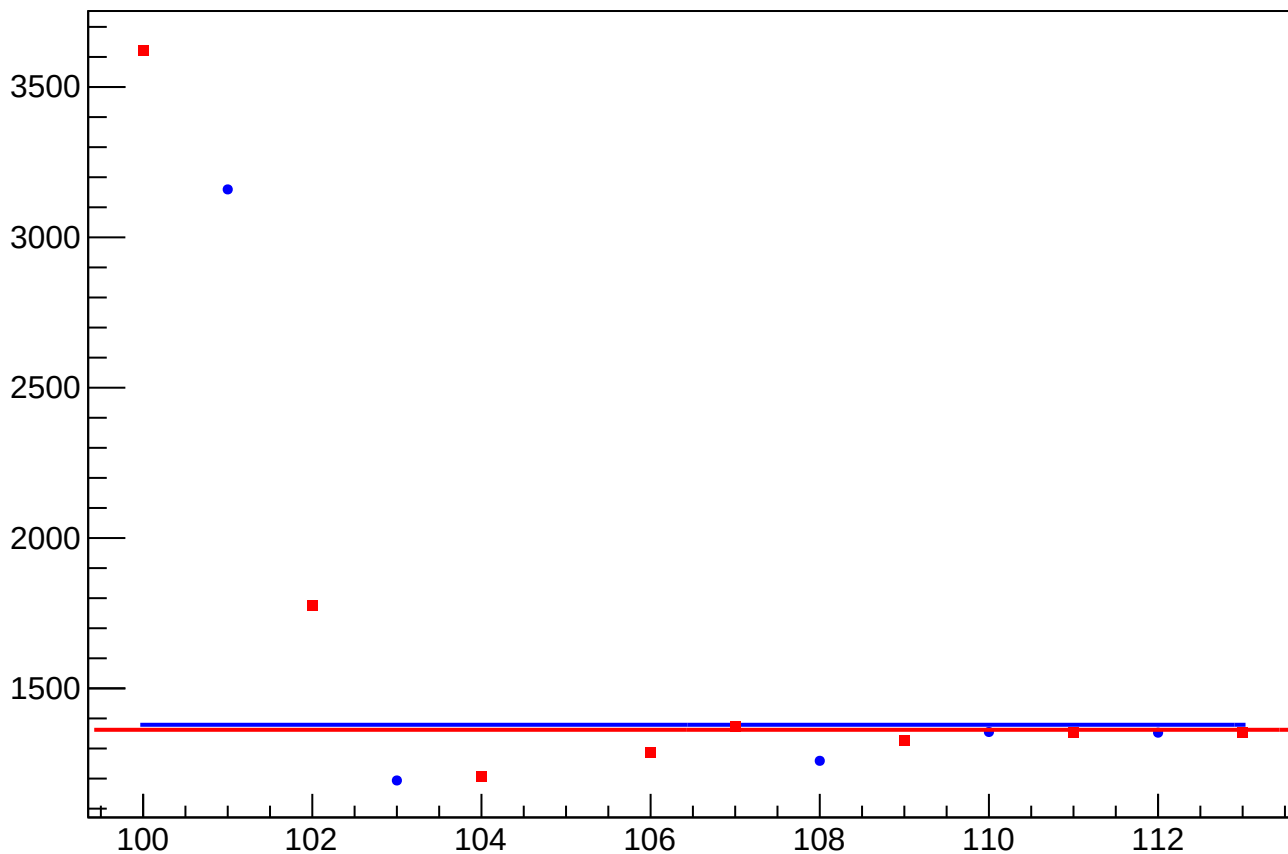
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 978.928+/-597.474  $\chi^2/\text{NDF}$ : 15.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1378.939+/-0.646  $\chi^2/\text{NDF}$ : 452153.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1362.240+/-0.559  $\chi^2/\text{NDF}$ : 130435.0/7

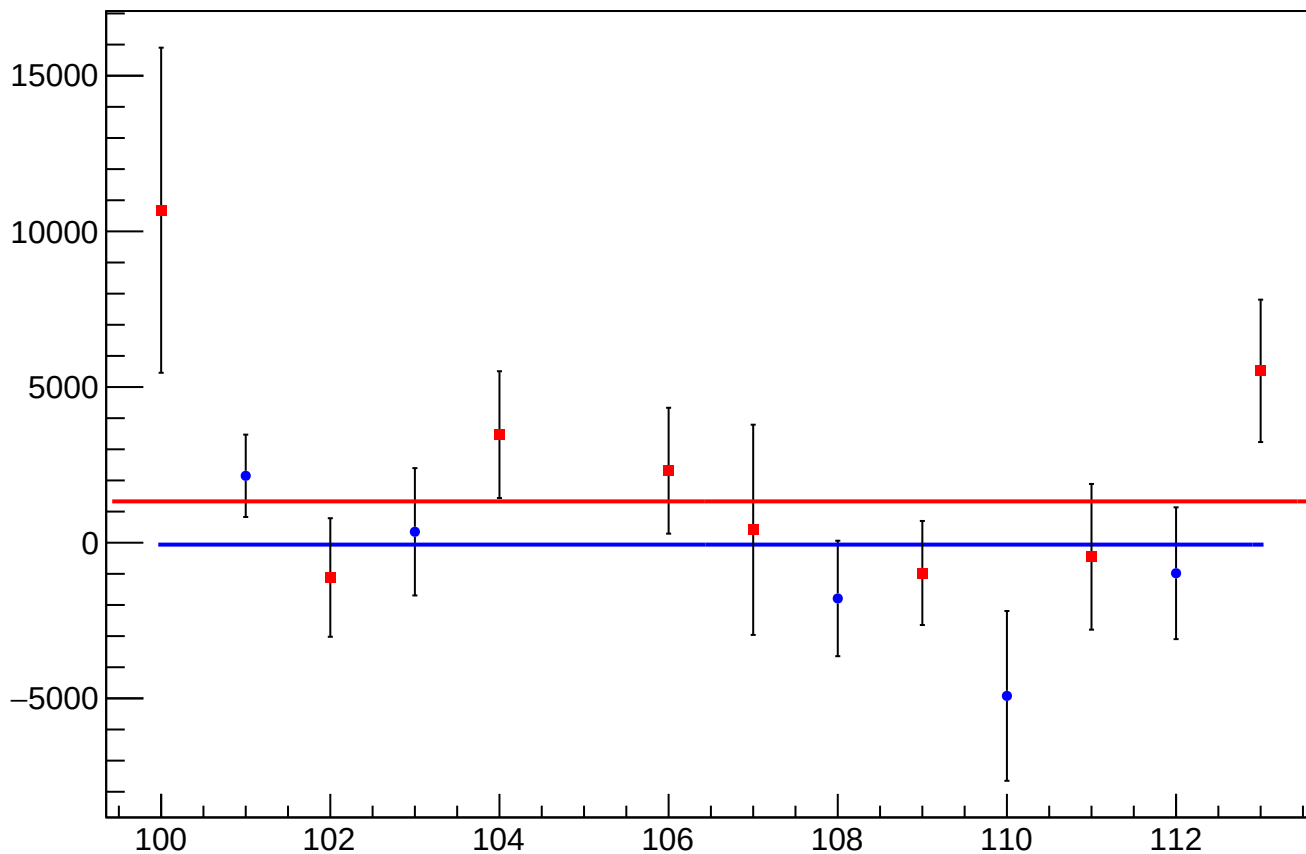
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1369.385+/-0.422  $\chi^2/\text{NDF}$ : 582971.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_dit\_correction\_mean vs Slug



Right In:  $-61.129 \pm 827.842$   $\chi^2/\text{NDF}$ : 7.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1327.016 \pm 786.238$   $\chi^2/\text{NDF}$ : 12.1/7

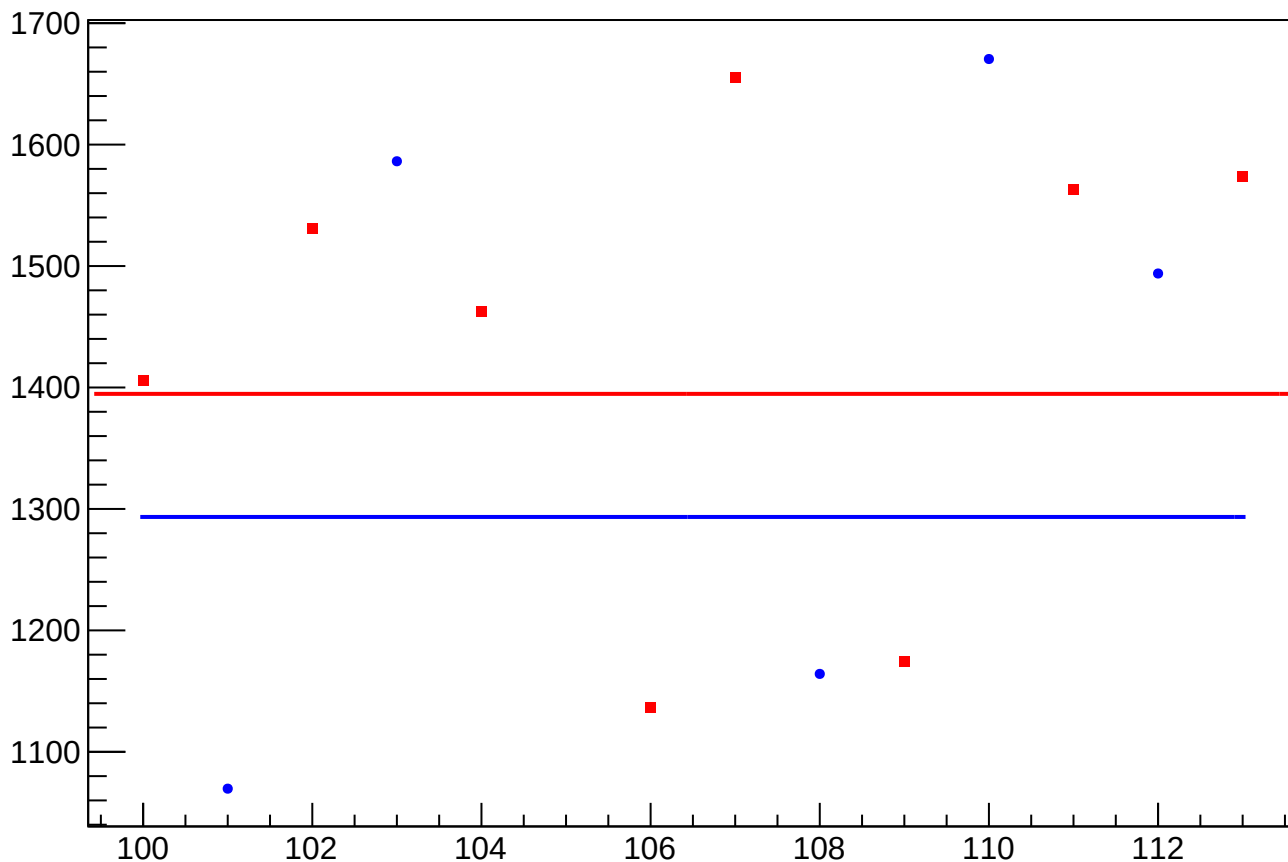
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $668.700 \pm 570.095$   $\chi^2/\text{NDF}$ : 20.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_dit\_correction\_rms vs Slug



Right In: 1293.408 $\pm$ 0.585  $\chi^2$ /NDF: 164125.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1394.749 $\pm$ 0.556  $\chi^2$ /NDF: 114475.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

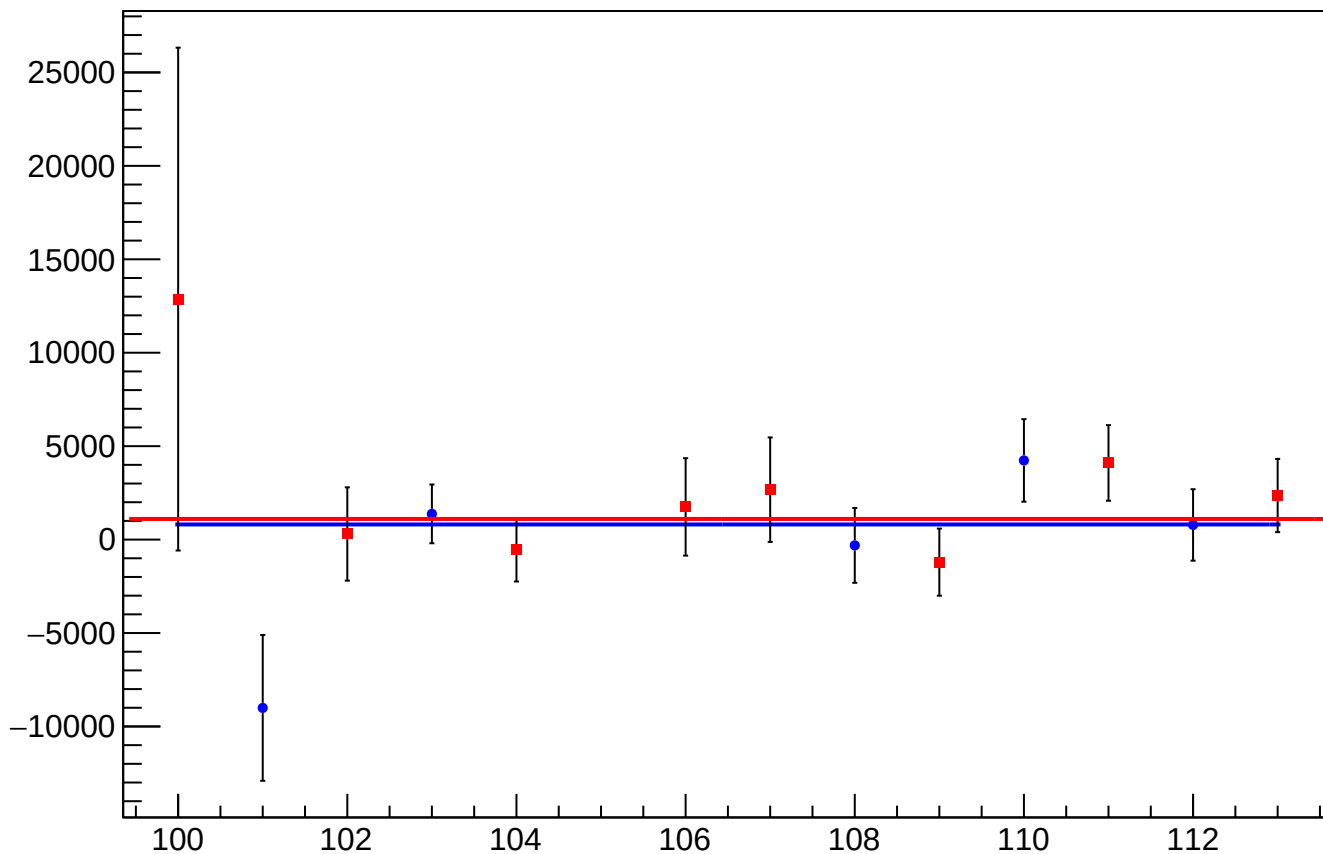
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1346.689 $\pm$ 0.403  $\chi^2$ /NDF: 294359.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



eigen\_dit\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 810.241+/-913.370  $\chi^2/\text{NDF}$ : 9.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1105.097+/-789.921  $\chi^2/\text{NDF}$ : 6.5/7

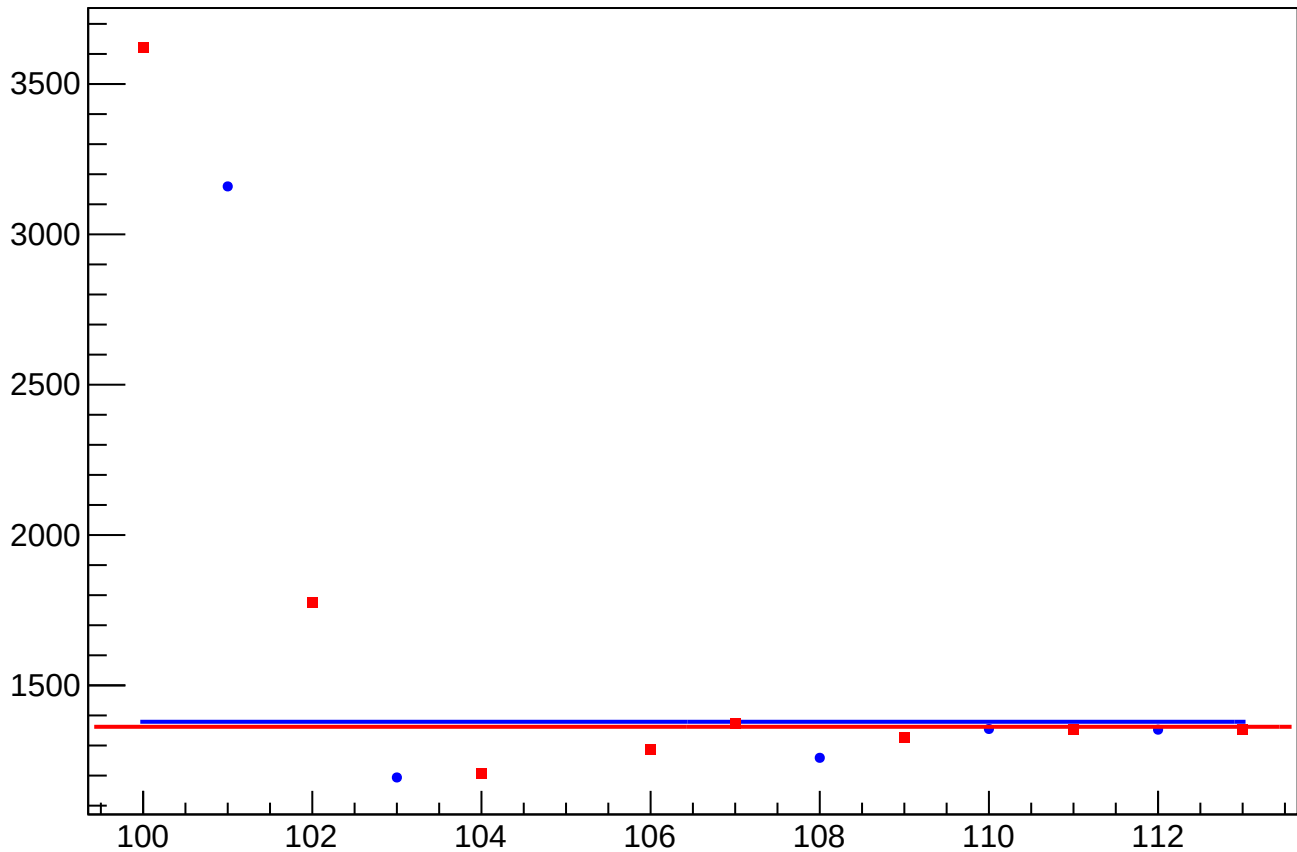
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 978.927+/-597.474  $\chi^2/\text{NDF}$ : 15.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1378.938 $\pm$ 0.646  $\chi^2$ /NDF: 452154.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1362.239 $\pm$ 0.559  $\chi^2$ /NDF: 130434.9/7

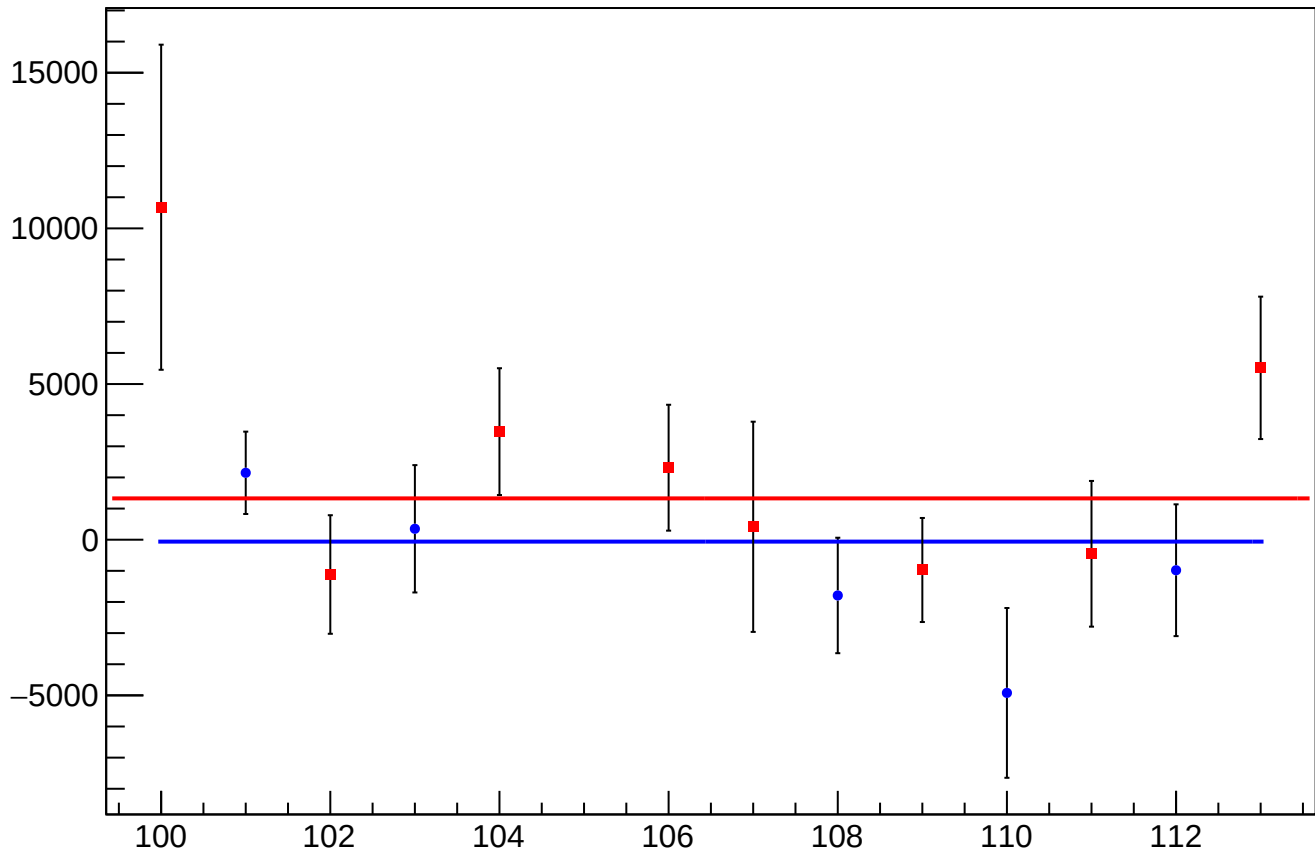
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1369.385 $\pm$ 0.422  $\chi^2$ /NDF: 582971.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -61.128+/-827.839  $\chi^2/\text{NDF}$ : 7.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1327.019+/-786.238  $\chi^2/\text{NDF}$ : 12.1/7

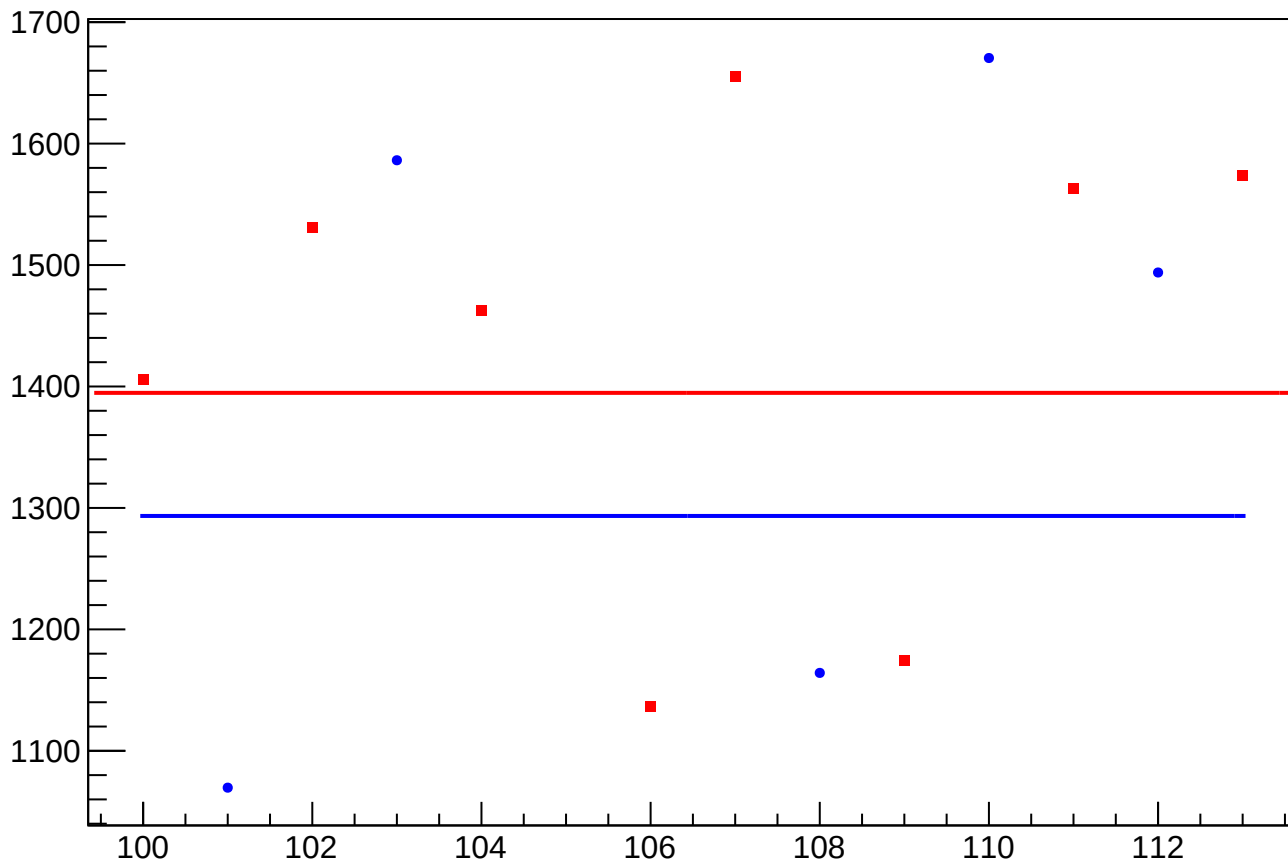
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 668.699+/-570.094  $\chi^2/\text{NDF}$ : 20.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1293.402 $\pm$ 0.585  $\chi^2$ /NDF: 164133.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1394.749 $\pm$ 0.556  $\chi^2$ /NDF: 114477.7/7

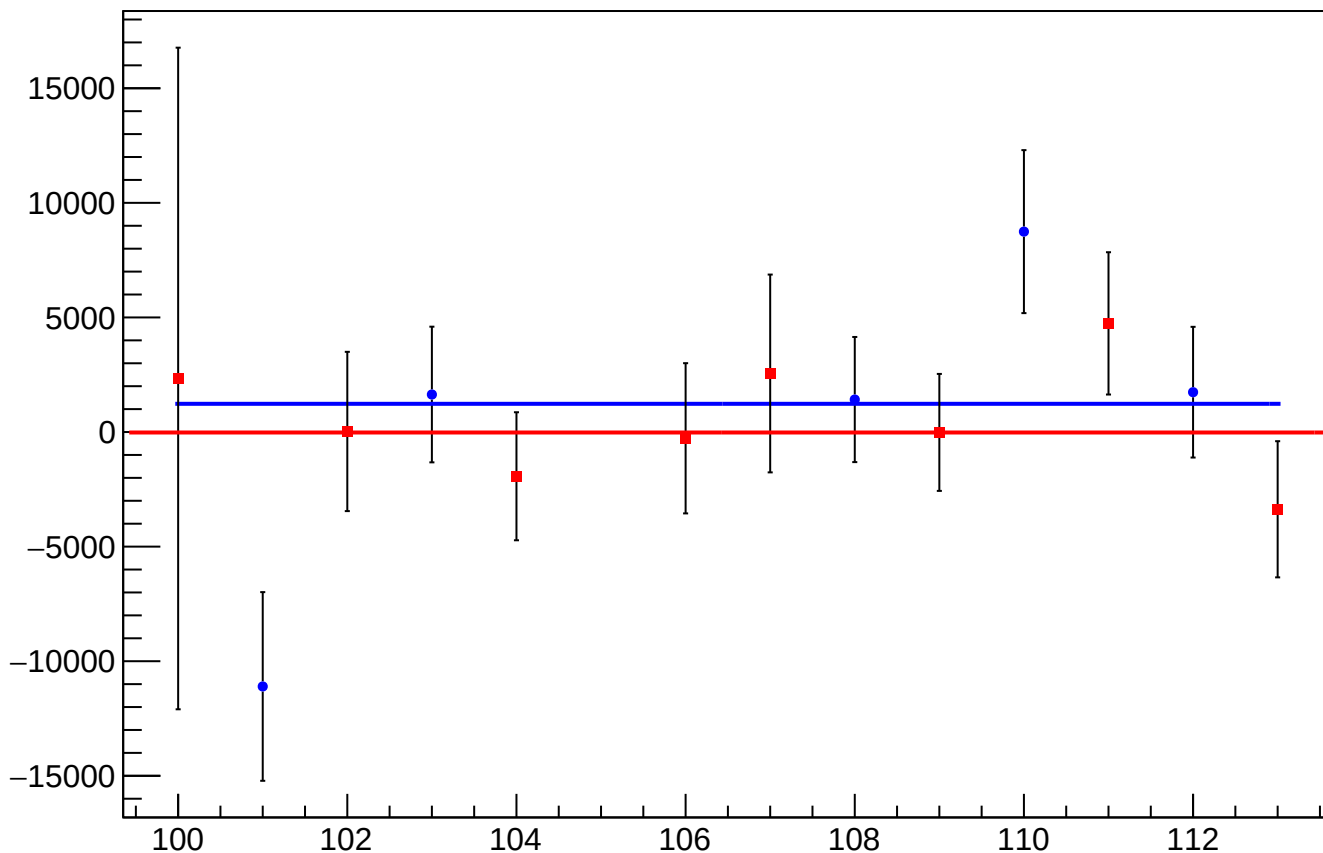
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1346.686 $\pm$ 0.403  $\chi^2$ /NDF: 294370.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 1231.296+/-1401.111  $\chi^2/\text{NDF}$ : 13.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20.359+/-1167.844  $\chi^2/\text{NDF}$ : 4.5/7

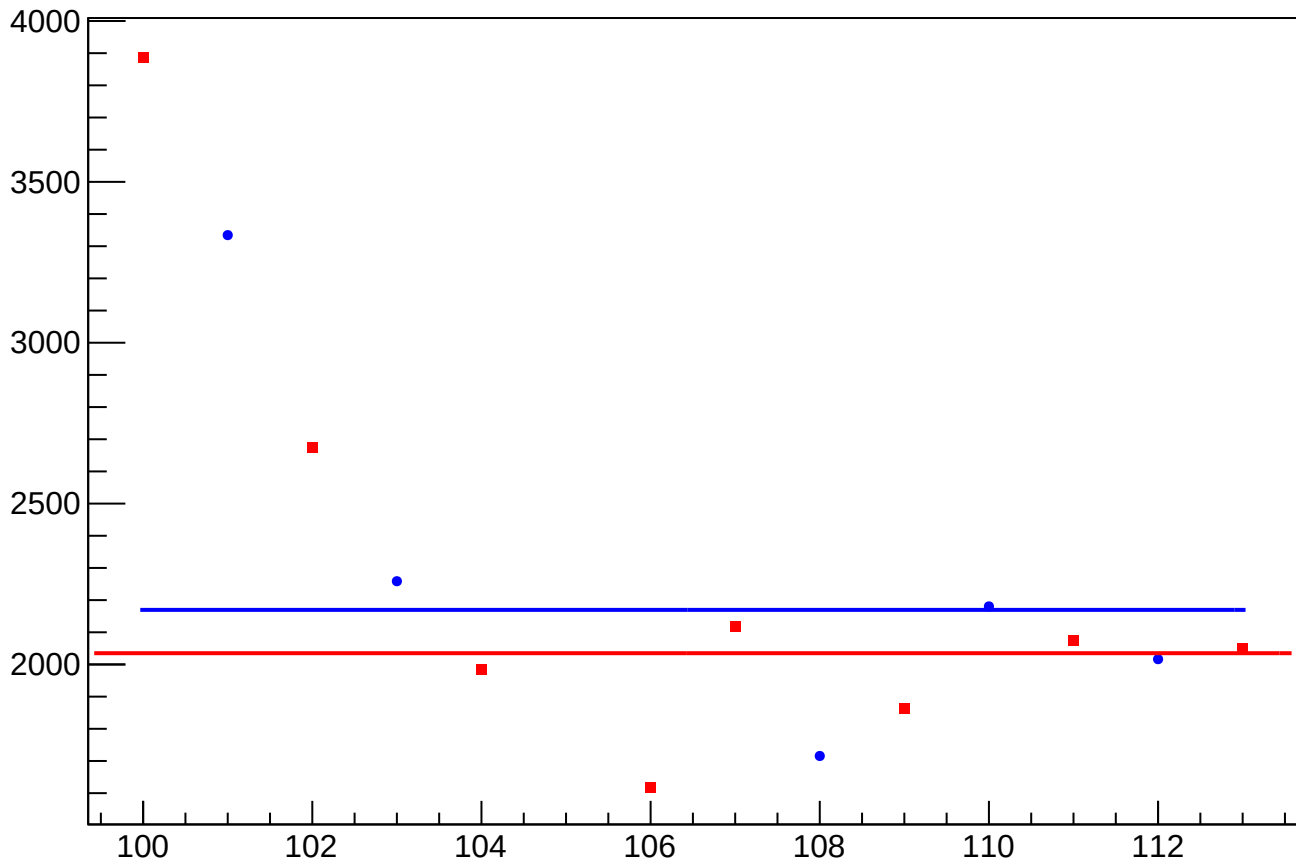
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 492.744+/-897.084  $\chi^2/\text{NDF}$ : 18.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 2169.650+/-0.991  $\chi^2/\text{NDF}$ : 223080.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

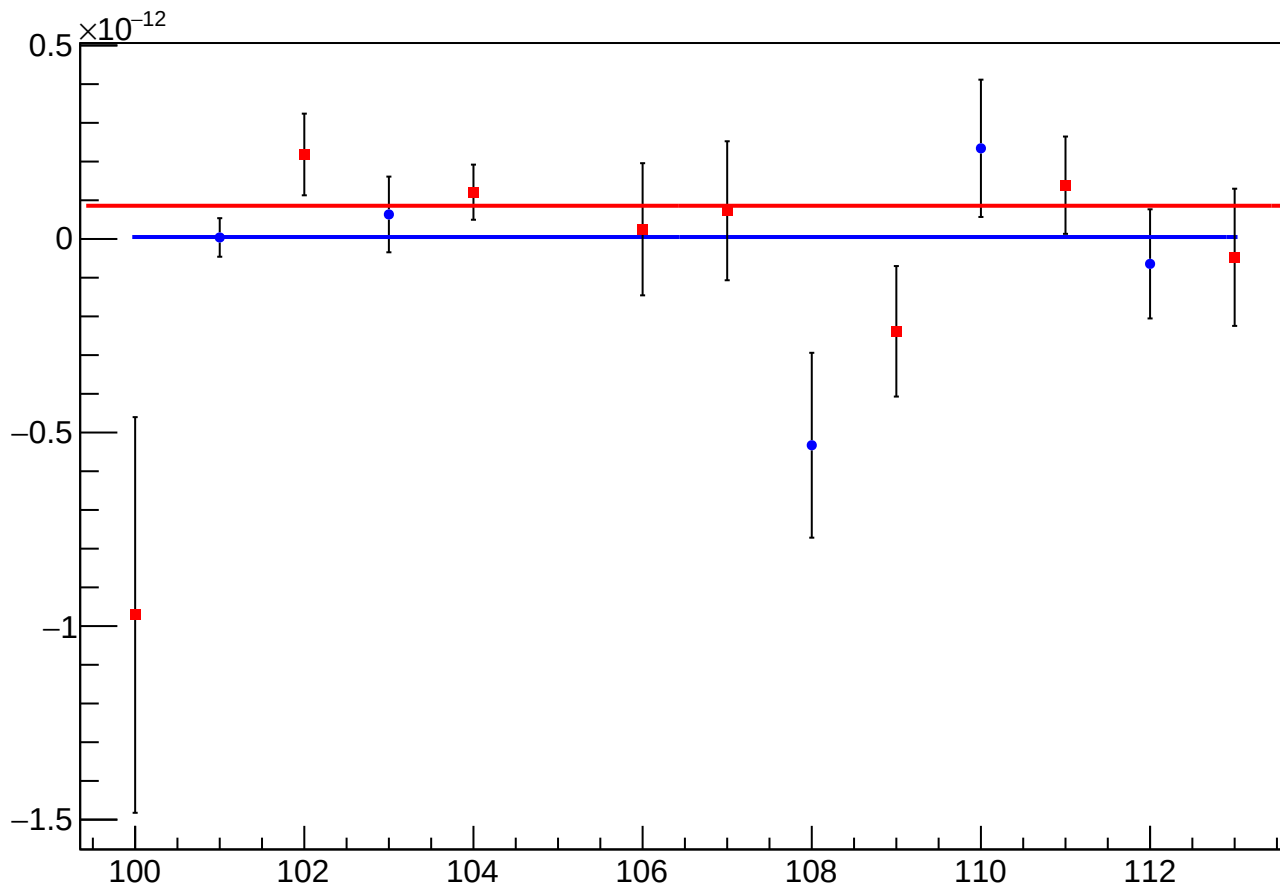
Right Out: 2035.010+/-0.826  $\chi^2/\text{NDF}$ : 143775.0/7

All: 2090.202+/-0.634  $\chi^2/\text{NDF}$ : 377753.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.7/7

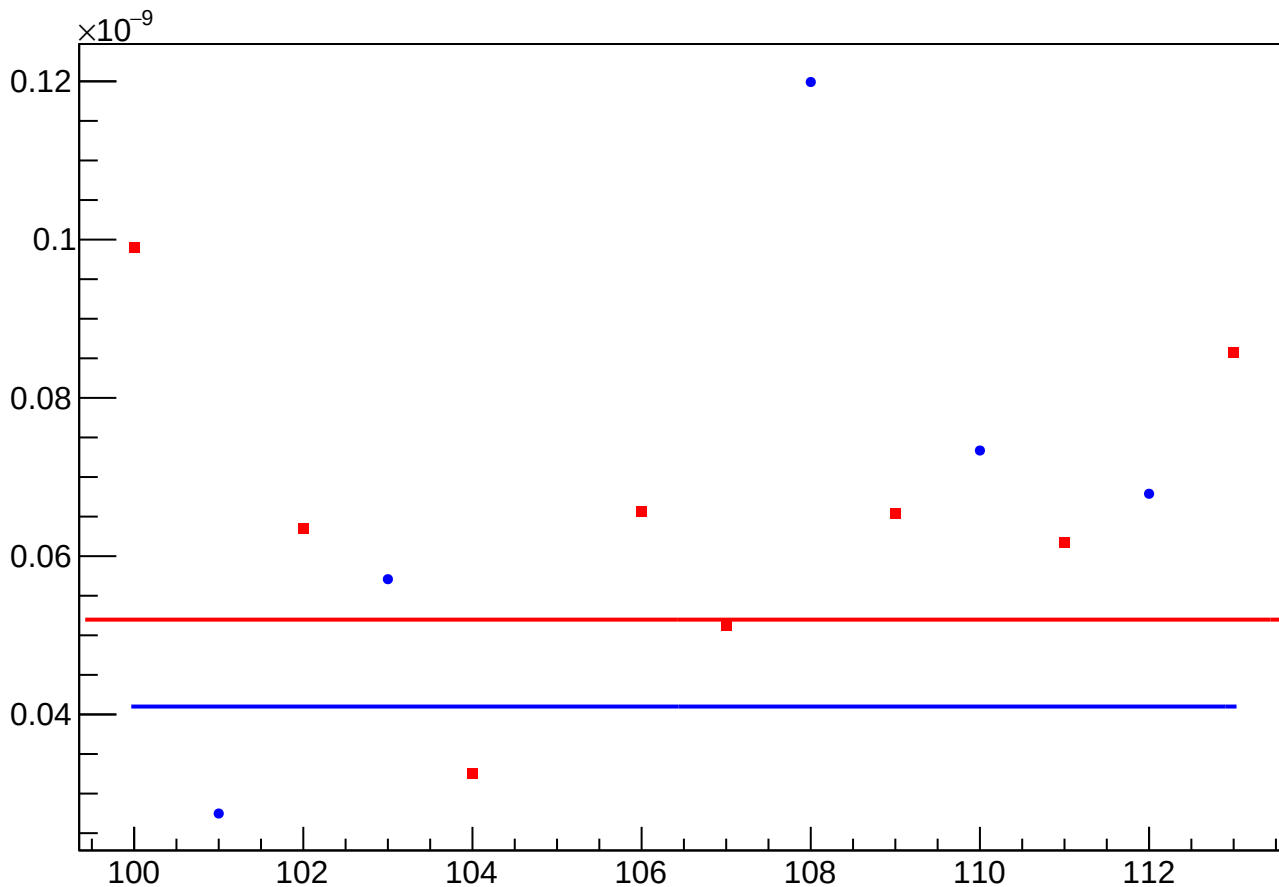
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 559215.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 299572.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

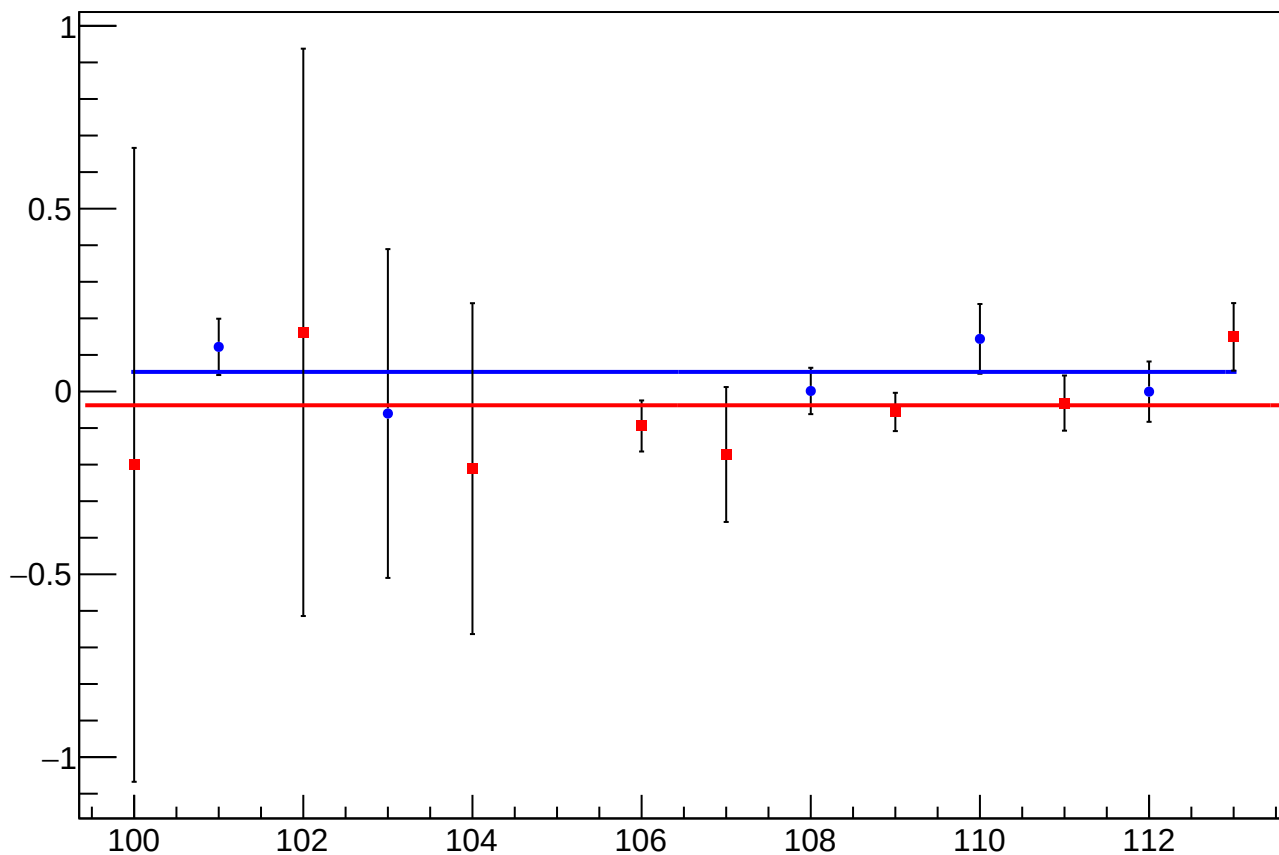
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 923948.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl\_dd\_atr\_dd\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.038  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.038 $\pm$ 0.033  $\chi^2$ /NDF: 5.7/7

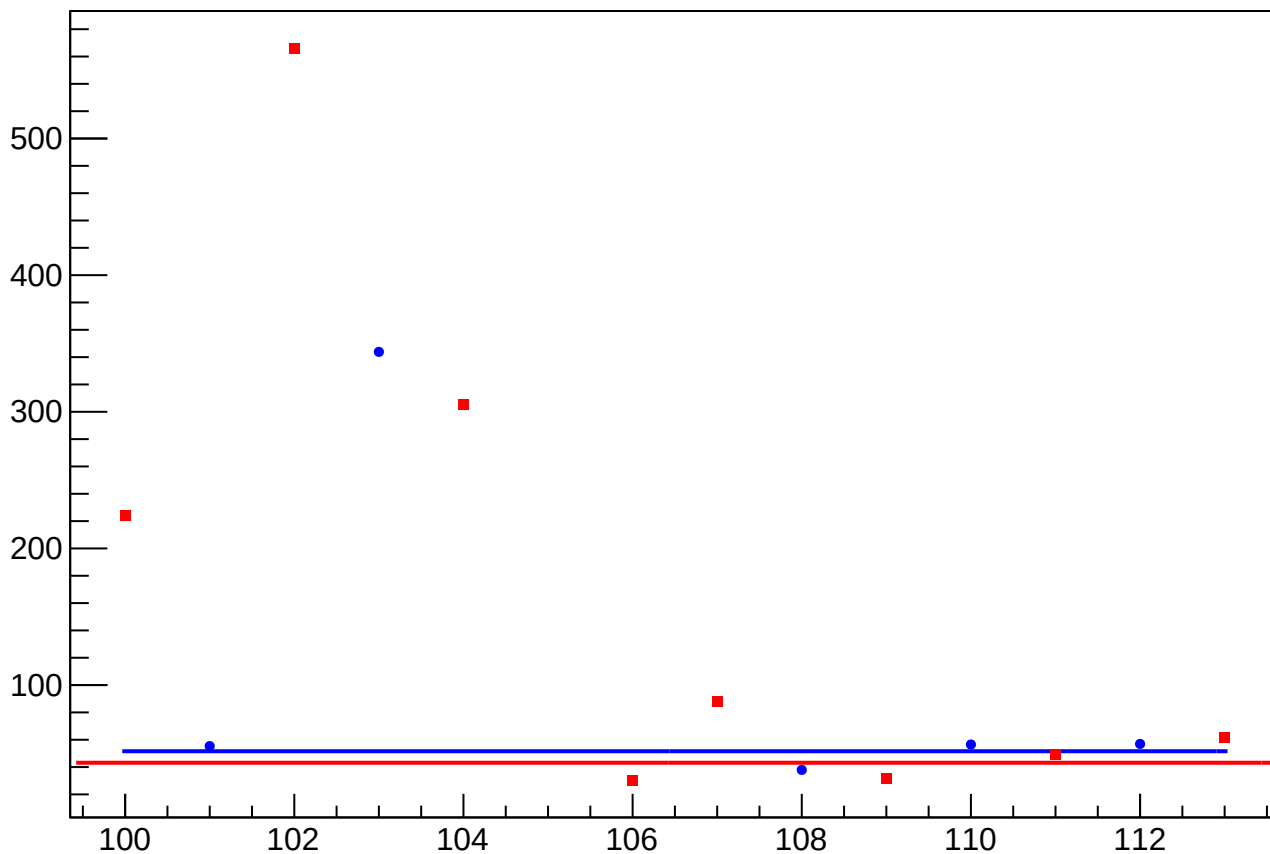
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.025  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In:  $51.584 \pm 0.027$   $\chi^2/\text{NDF}$ : 956309.2/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $43.170 \pm 0.024$   $\chi^2/\text{NDF}$ : 2051976.5/7

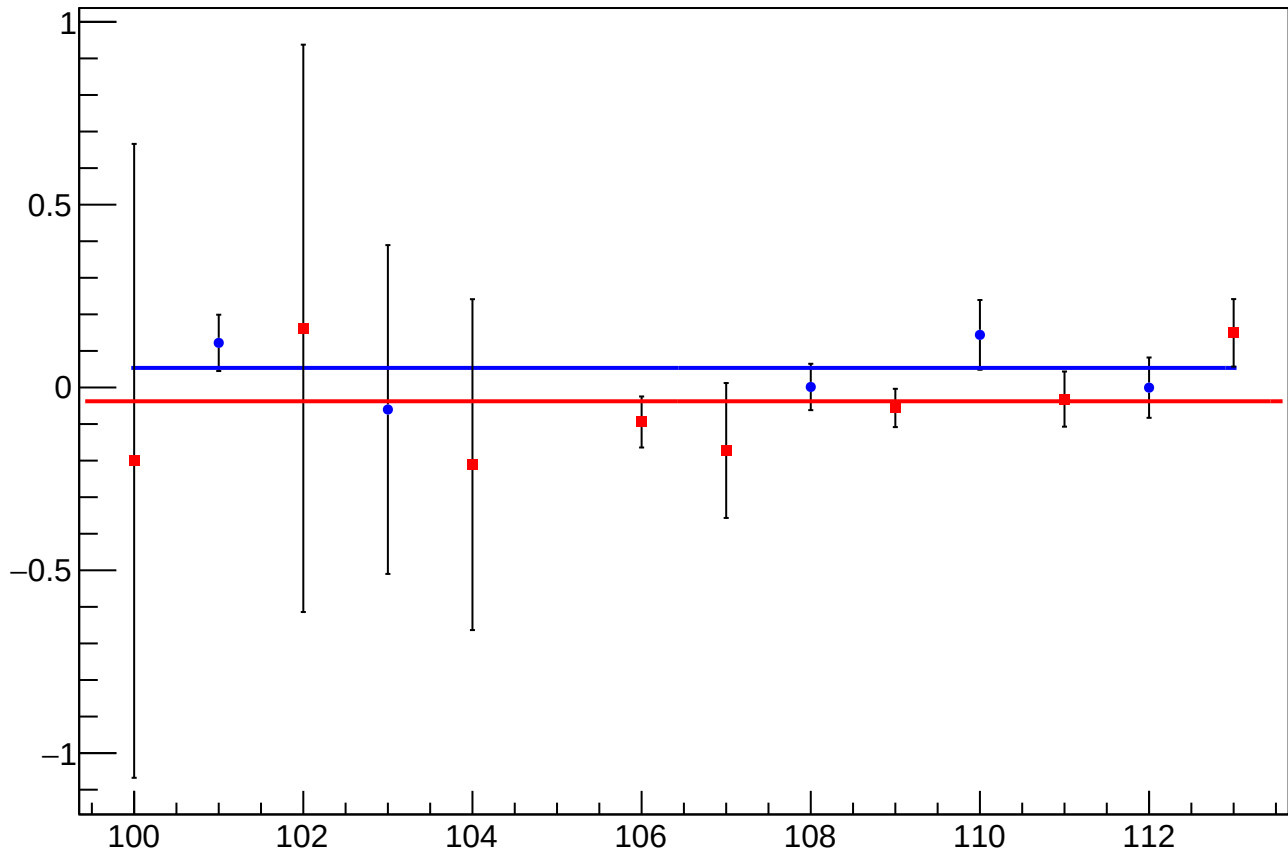
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $46.789 \pm 0.018$   $\chi^2/\text{NDF}$ : 3063107.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.038  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.038 $\pm$ 0.033  $\chi^2$ /NDF: 5.7/7

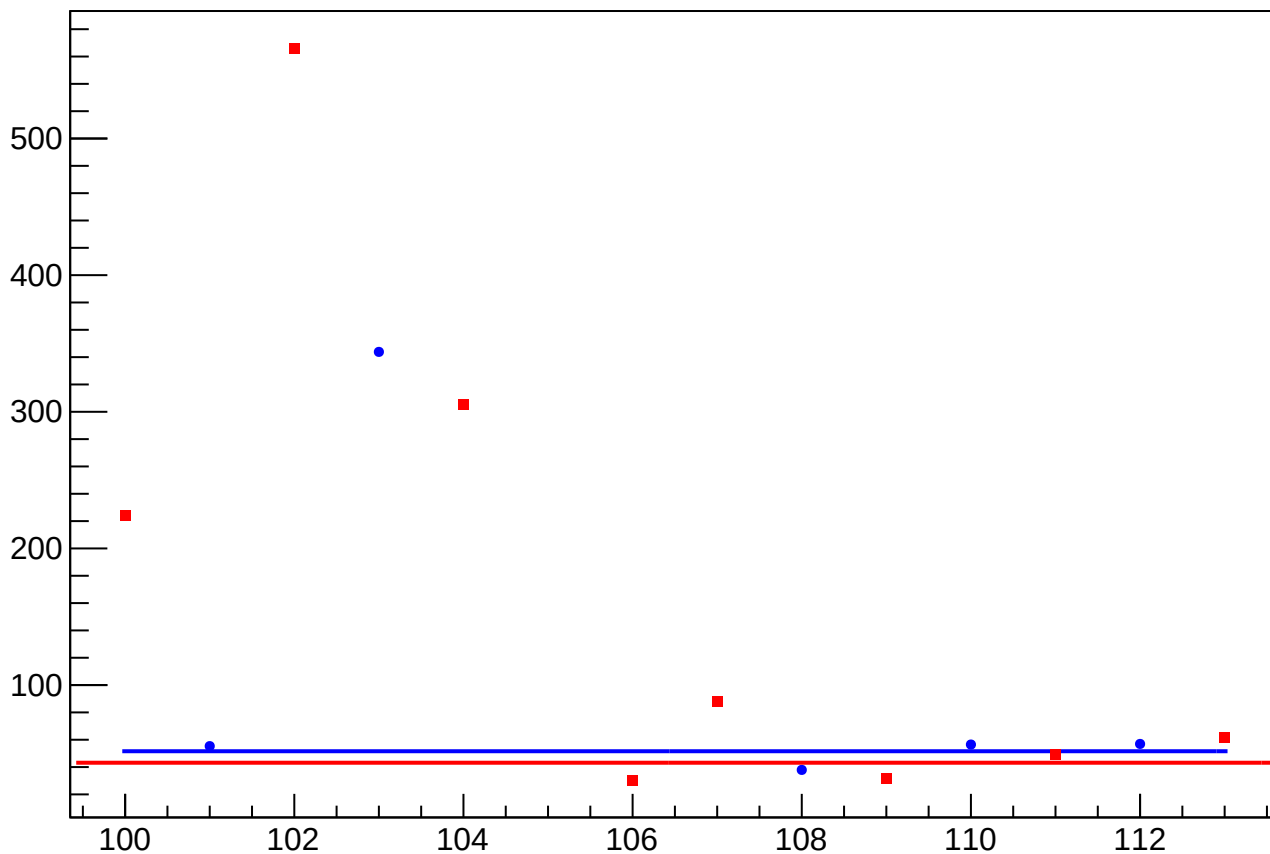
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.025  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 51.584+/-0.027  $\chi^2/\text{NDF}$ : 956309.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 43.170+/-0.024  $\chi^2/\text{NDF}$ : 2051976.5/7

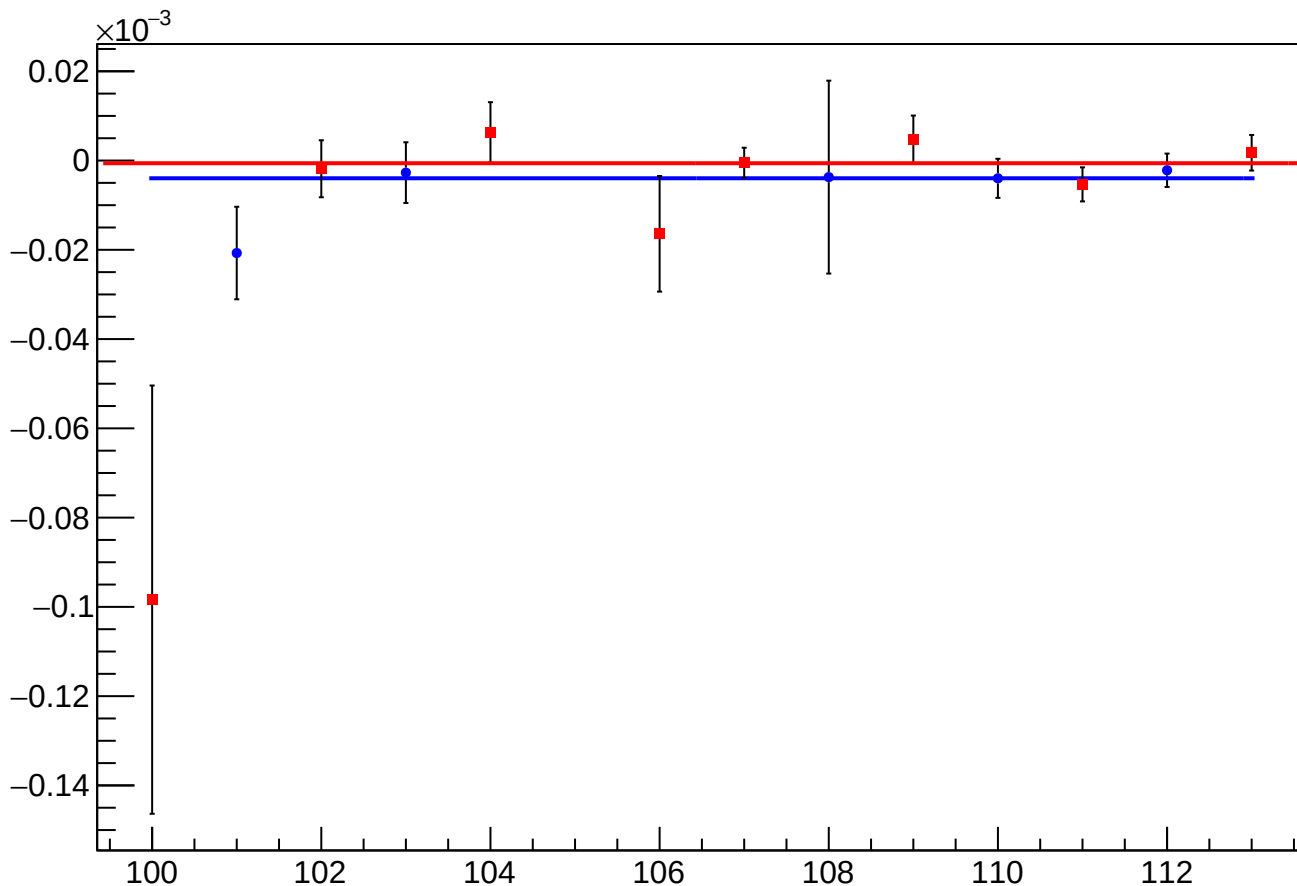
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.789+/-0.018  $\chi^2/\text{NDF}$ : 3063107.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 9.6/7

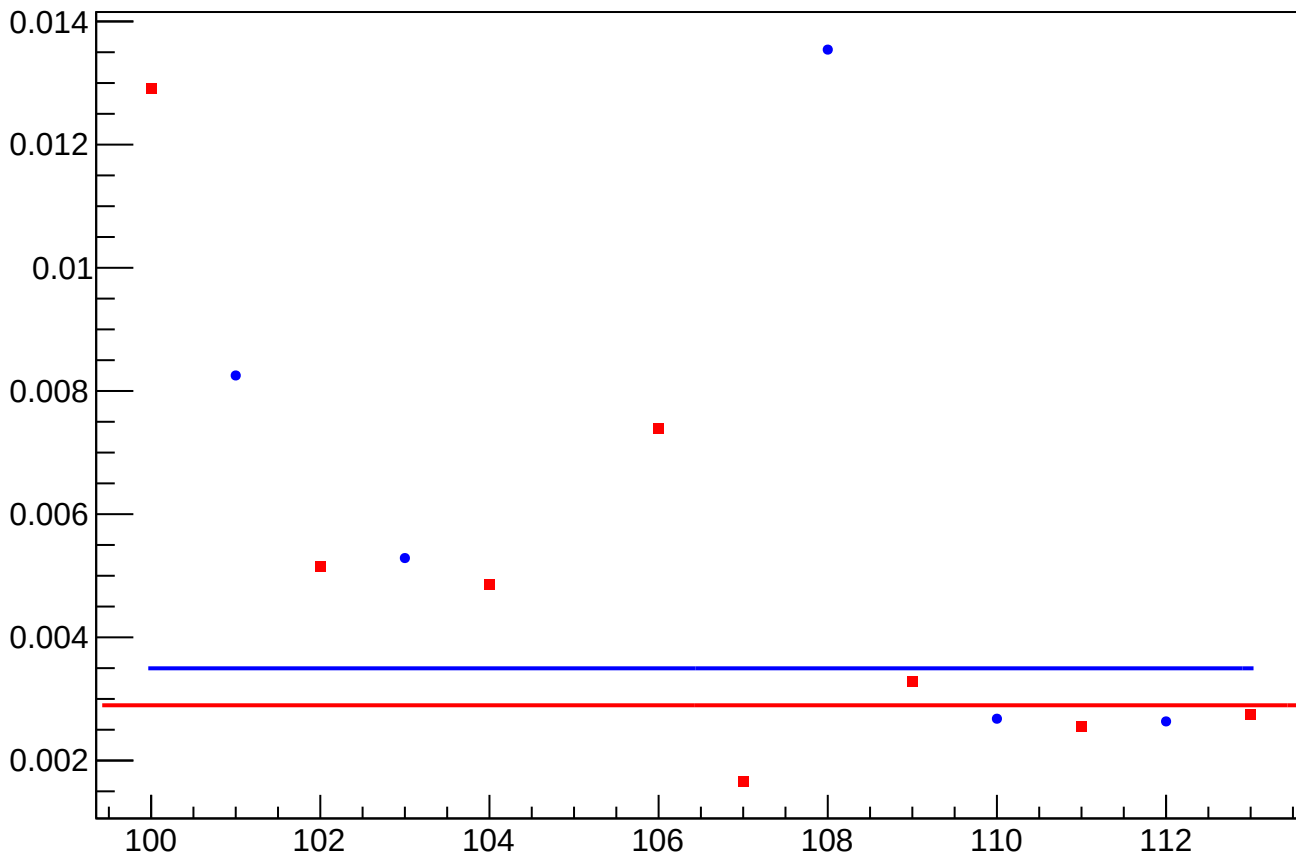
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 13.7/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1168136.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1042860.7/7

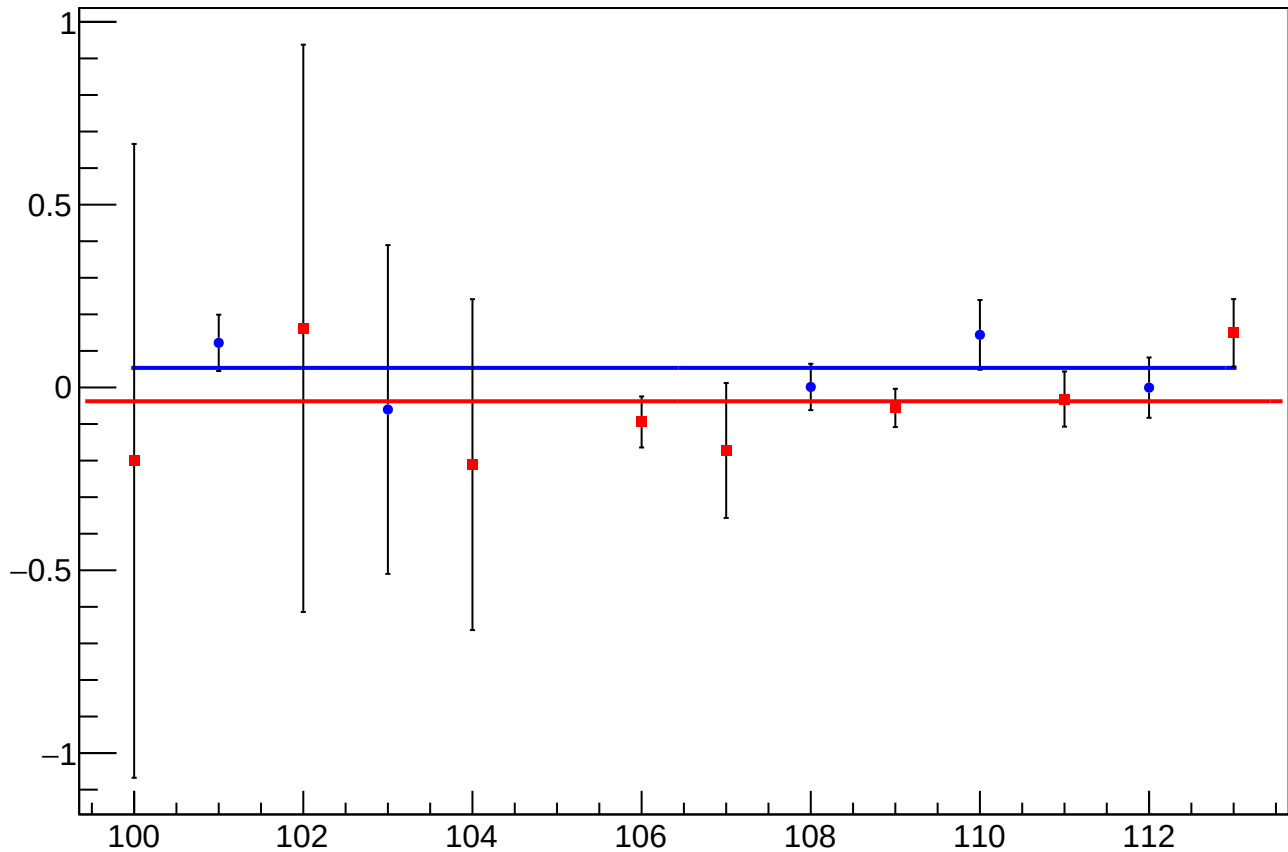
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2285831.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.038  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.038 $\pm$ 0.033  $\chi^2$ /NDF: 5.7/7

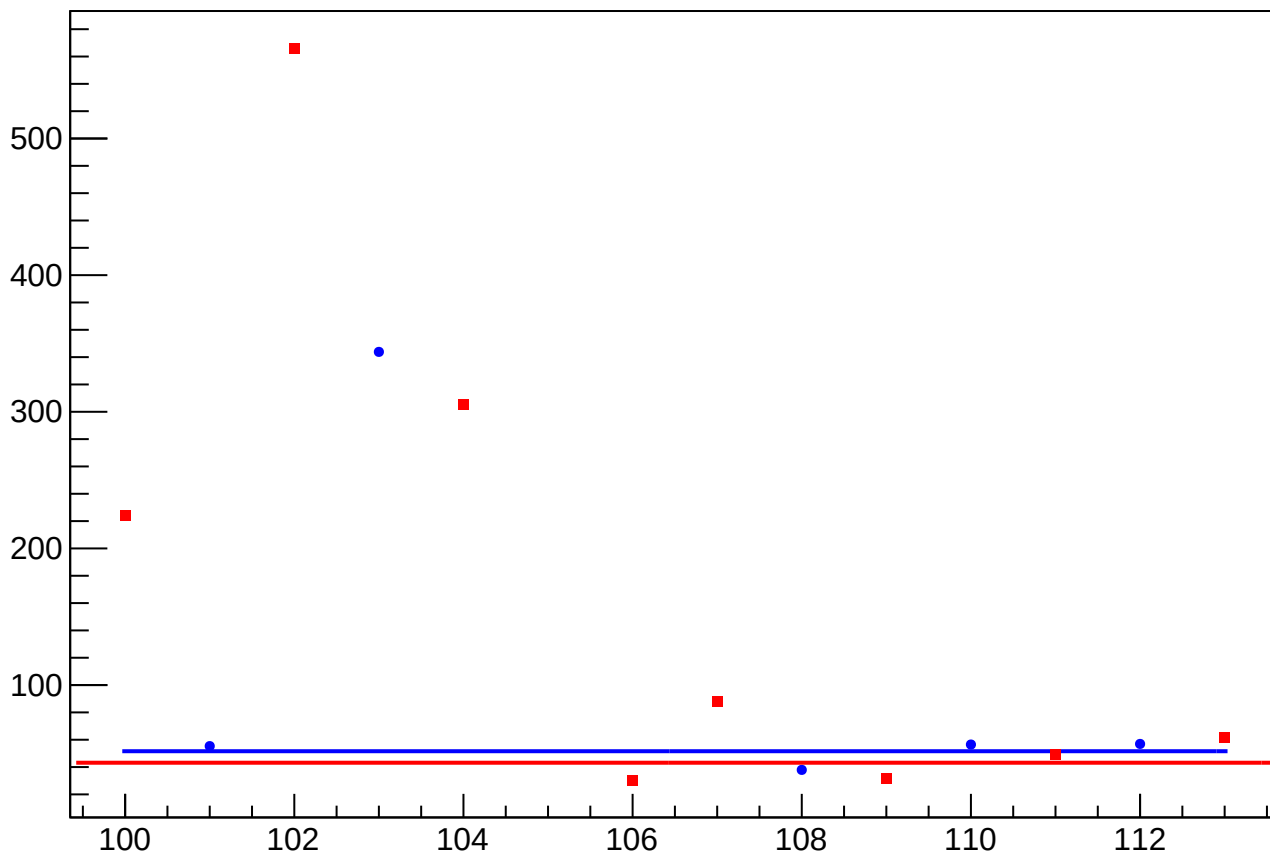
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.025  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 51.589+/-0.027  $\chi^2/\text{NDF}$ : 956186.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 43.168+/-0.024  $\chi^2/\text{NDF}$ : 2052043.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

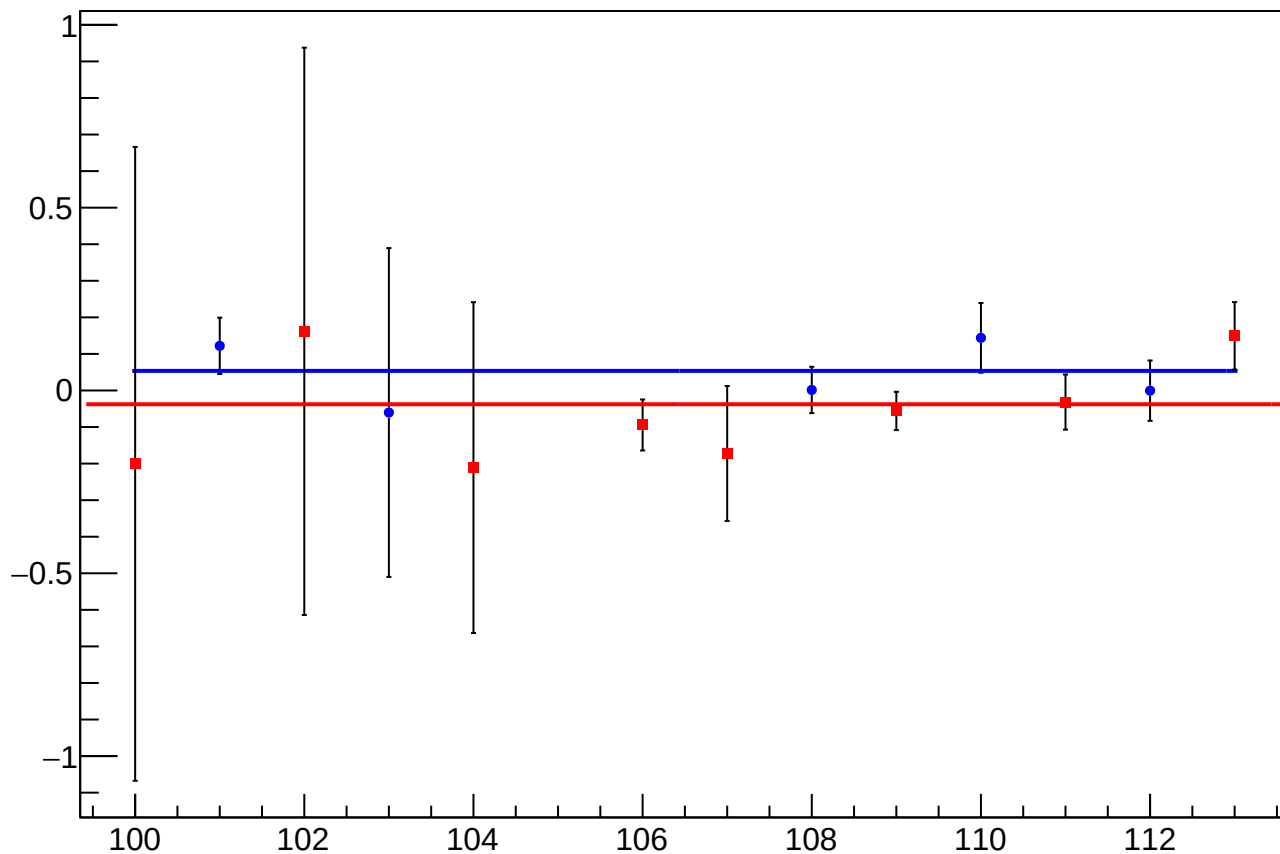
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.790+/-0.018  $\chi^2/\text{NDF}$ : 3063145.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.038  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.038 $\pm$ 0.033  $\chi^2$ /NDF: 5.7/7

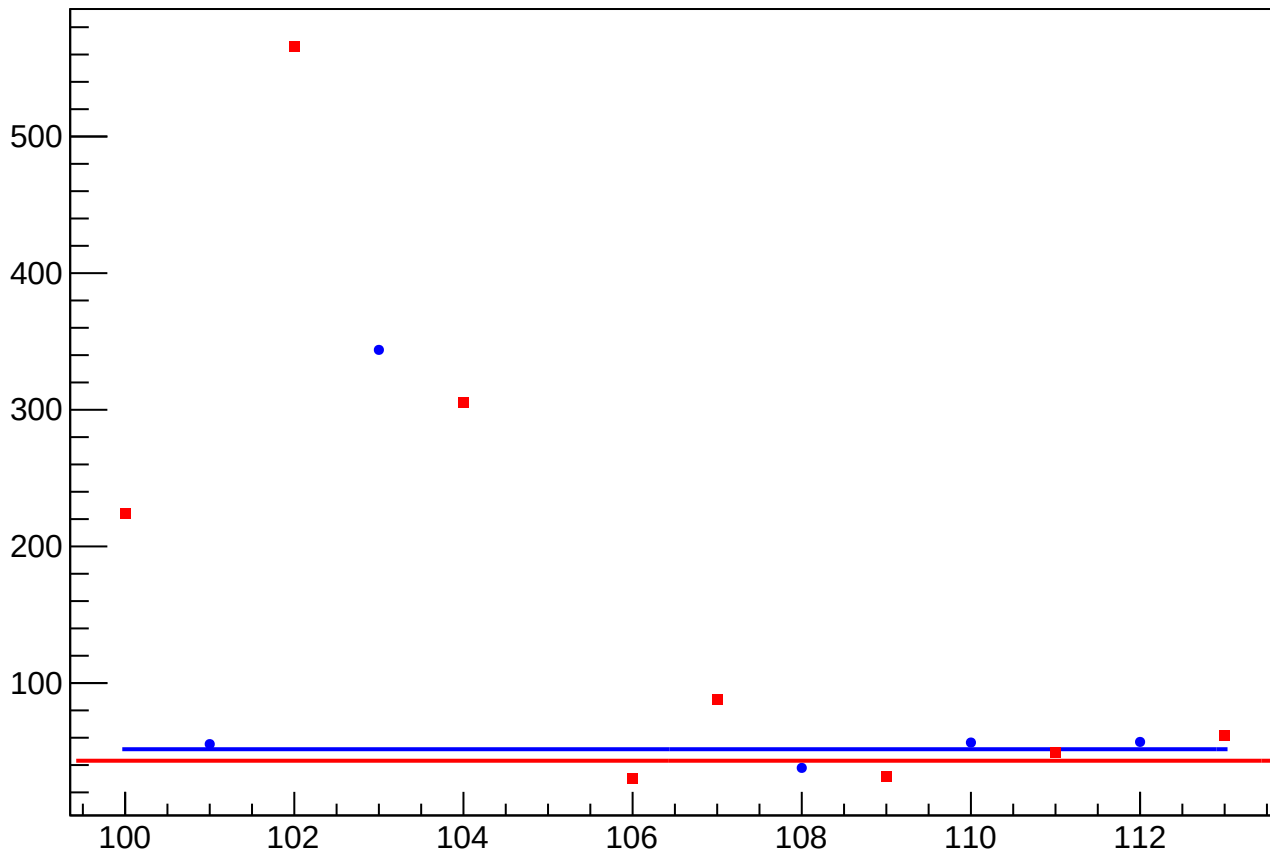
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.025  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 51.589+/-0.027  $\chi^2/\text{NDF}$ : 956186.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 43.168+/-0.024  $\chi^2/\text{NDF}$ : 2052043.6/7

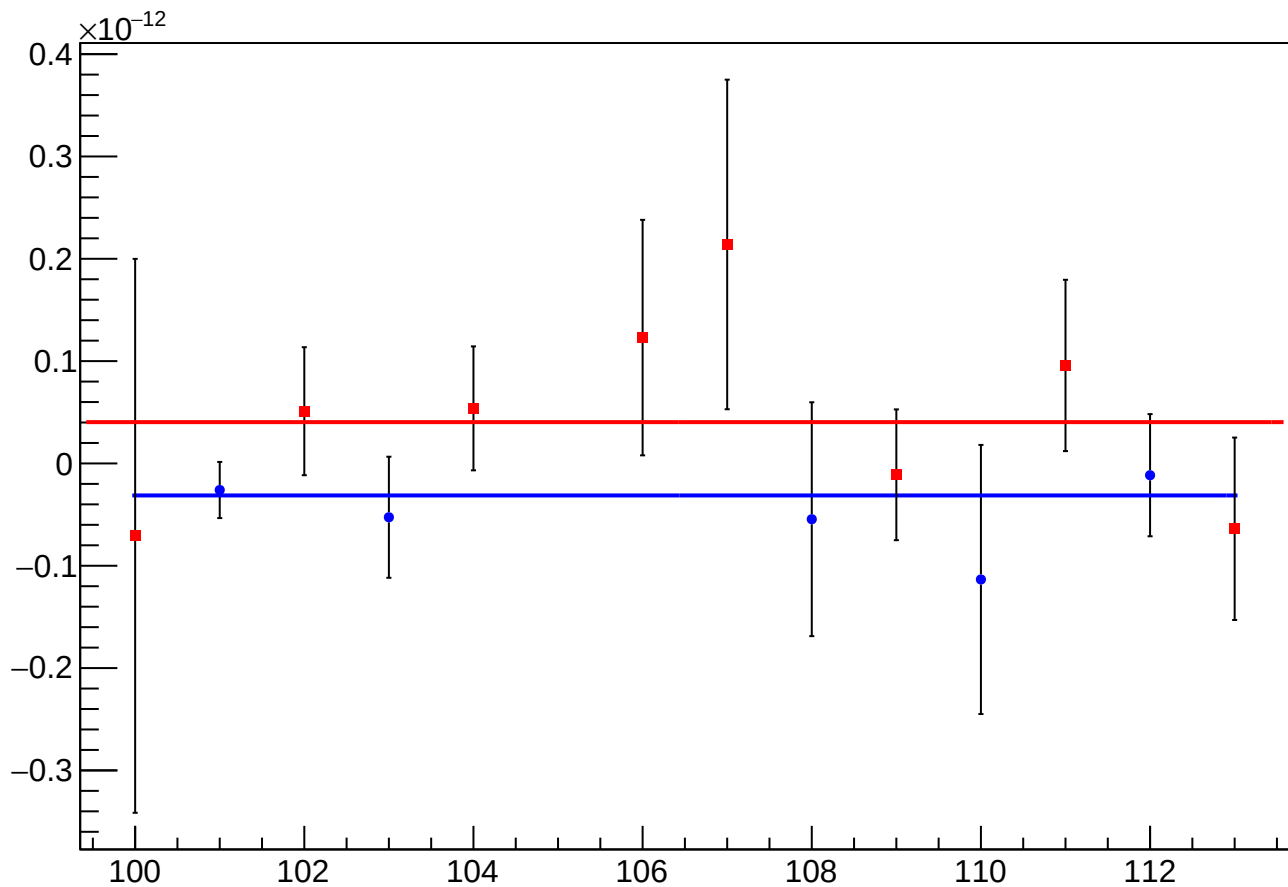
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.790+/-0.018  $\chi^2/\text{NDF}$ : 3063145.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.4/7

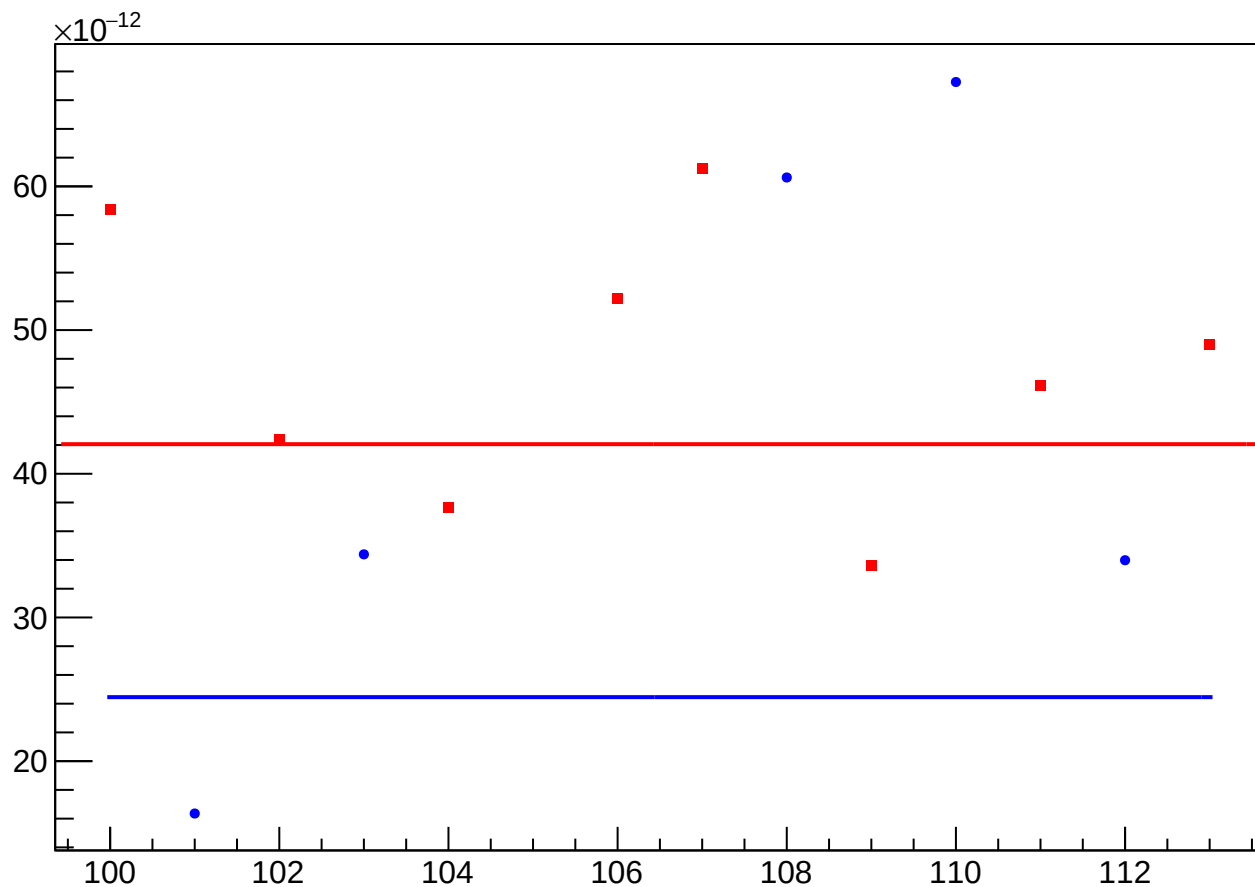
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 693877.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 113758.1/7

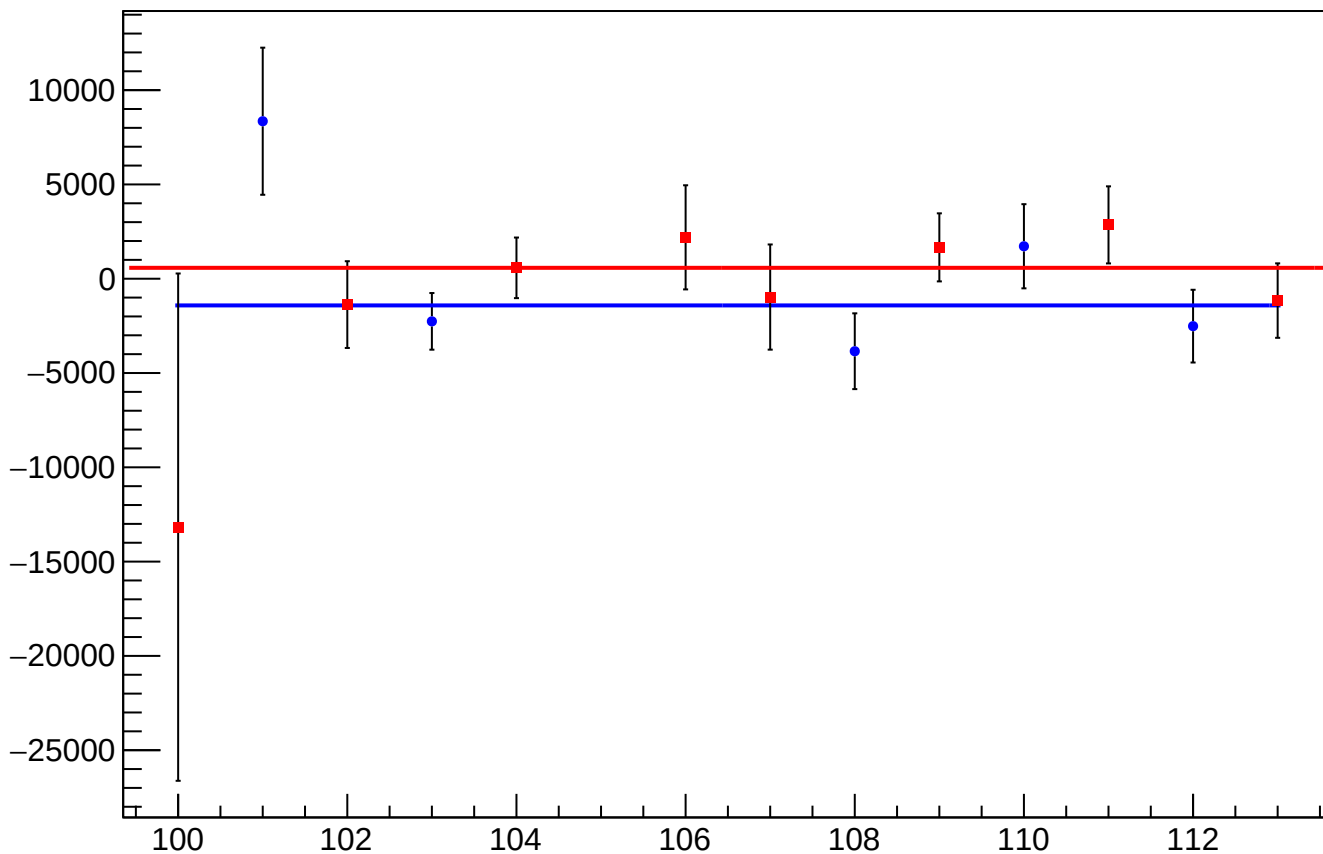
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1267390.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -1415.283+/-902.919  $\chi^2/\text{NDF}$ : 10.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 578.285+/-779.701  $\chi^2/\text{NDF}$ : 4.8/7

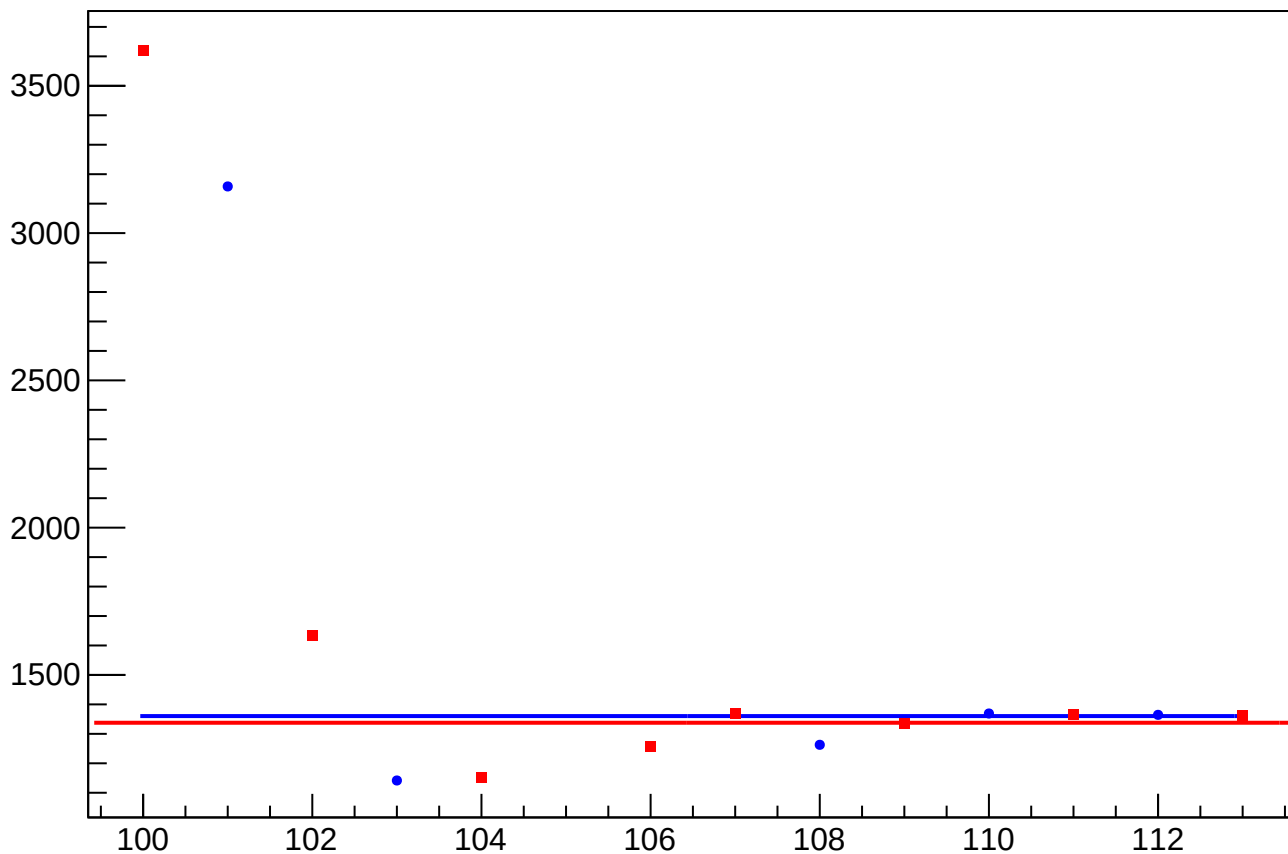
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -273.289+/-590.126  $\chi^2/\text{NDF}$ : 17.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 1360.317 $\pm$ 0.638  $\chi^2$ /NDF: 472253.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1337.665 $\pm$ 0.548  $\chi^2$ /NDF: 120806.1/7

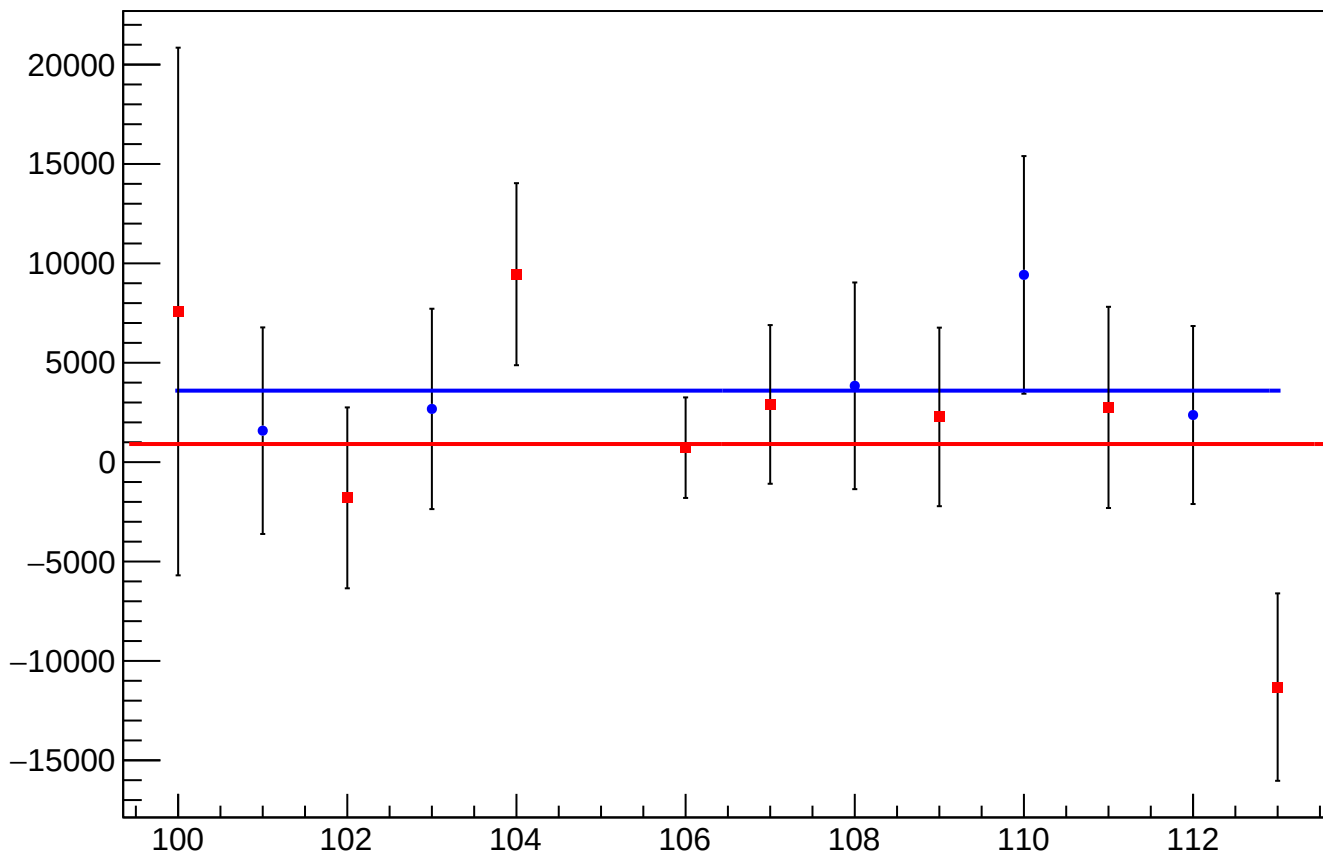
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1347.267 $\pm$ 0.416  $\chi^2$ /NDF: 593784.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_reg\_correction\_mean vs Slug



Right In: 3597.067+/-2286.429  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 911.596+/-1483.479  $\chi^2/\text{NDF}$ : 11.3/7

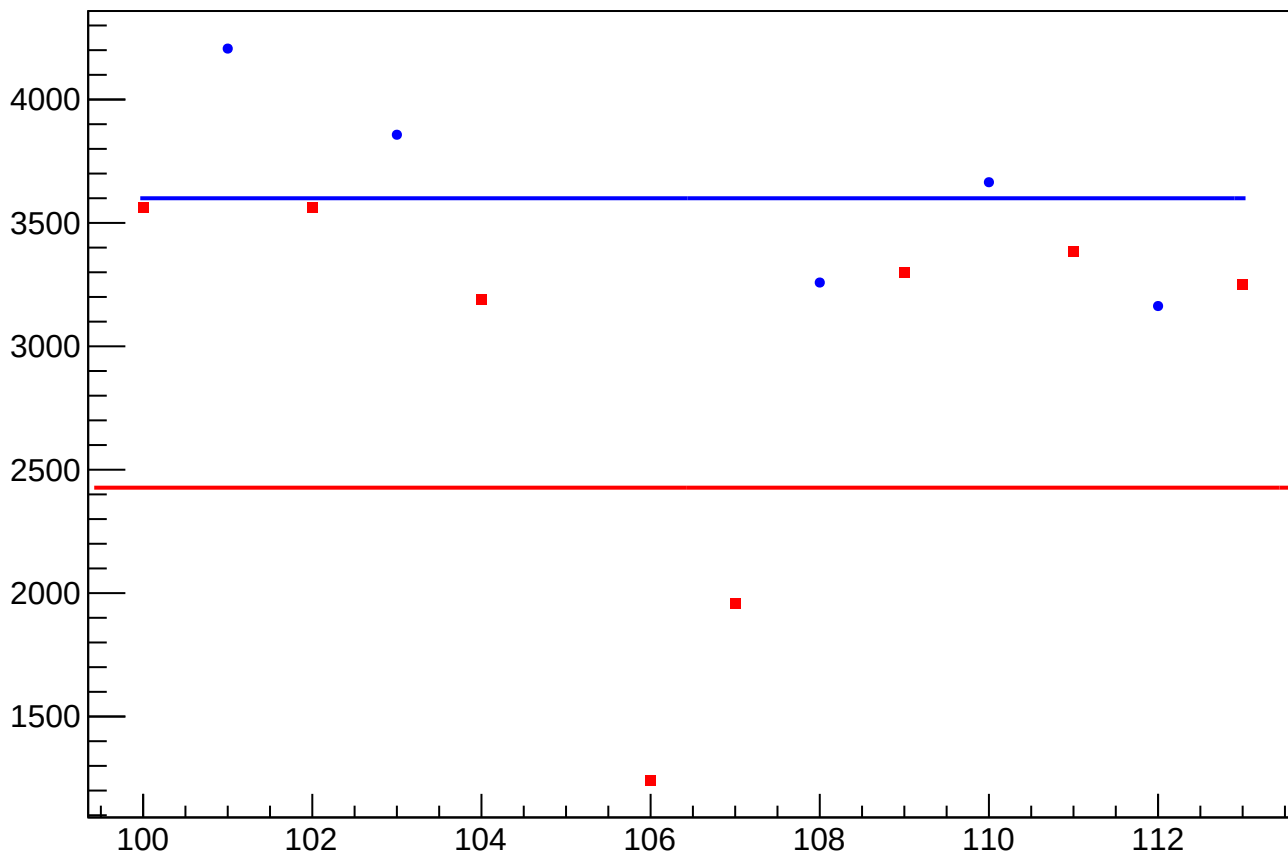
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1707.176+/-1244.484  $\chi^2/\text{NDF}$ : 13.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_reg\_correction\_rms vs Slug



Right In: 3599.934+/-1.617  $\chi^2/\text{NDF}$ : 60351.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2427.268+/-1.049  $\chi^2/\text{NDF}$ : 869254.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

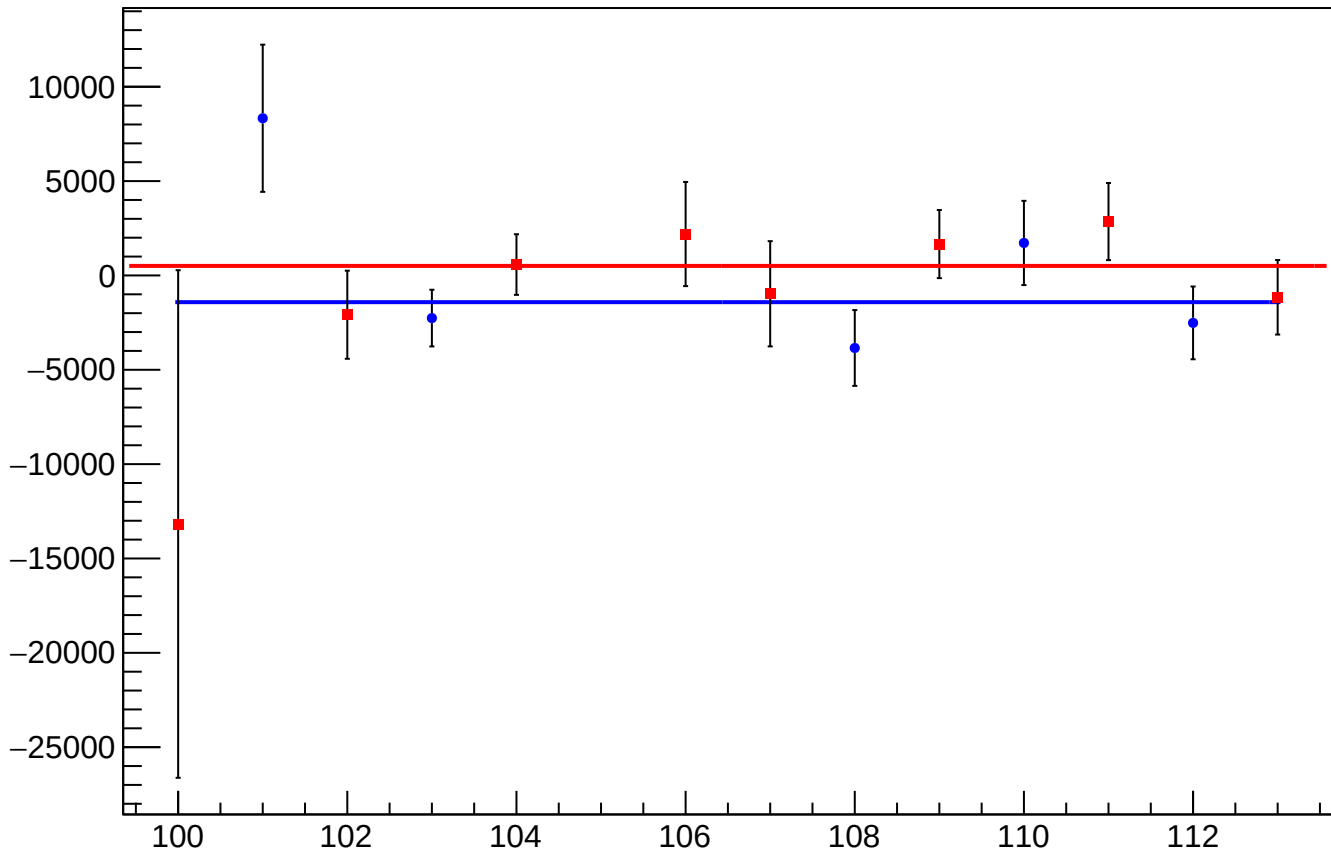
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2774.675+/-0.880  $\chi^2/\text{NDF}$ : 1299842.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -1416.367 $\pm$ 902.919  $\chi^2$ /NDF: 10.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 505.605 $\pm$ 781.025  $\chi^2$ /NDF: 5.4/7

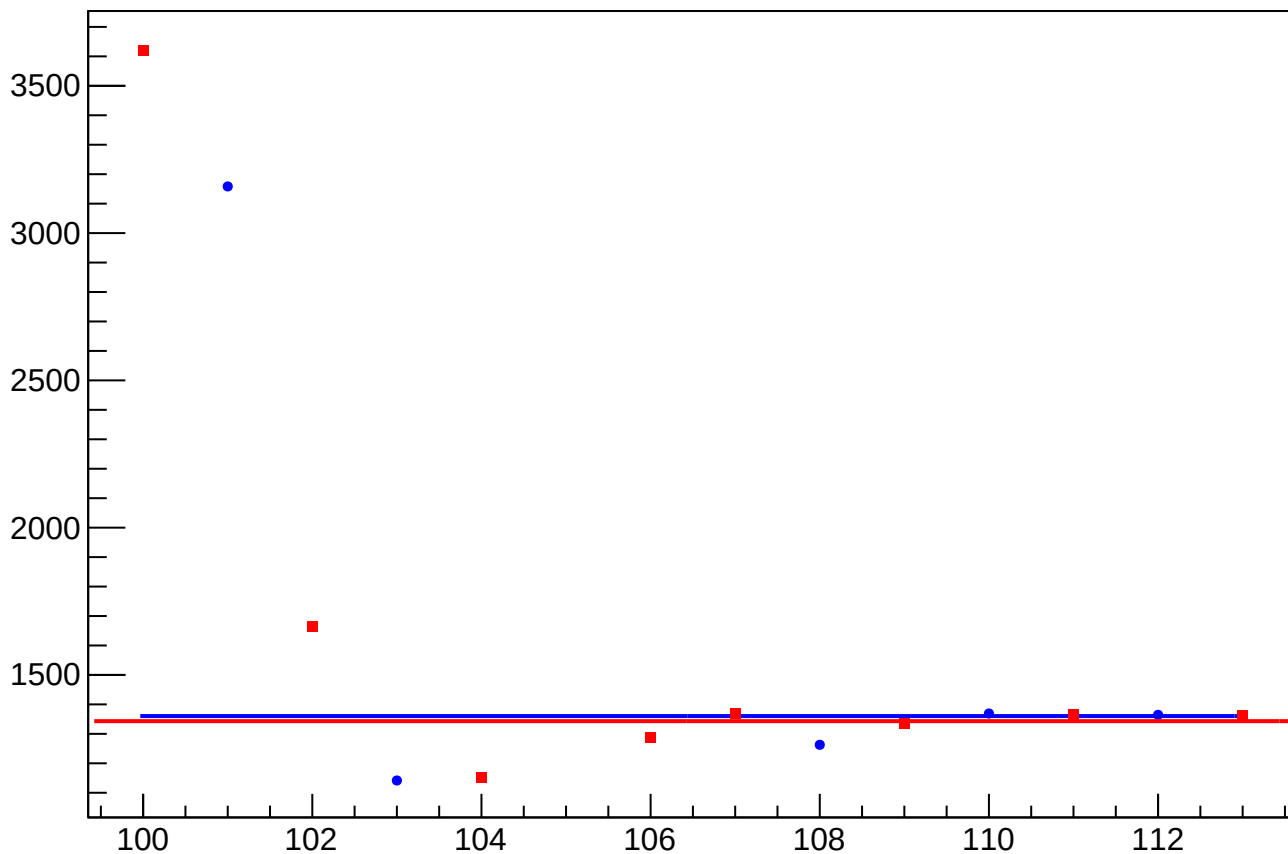
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -316.983 $\pm$ 590.699  $\chi^2$ /NDF: 18.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 1360.316 $\pm$ 0.638  $\chi^2$ /NDF: 472255.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1343.114 $\pm$ 0.550  $\chi^2$ /NDF: 125904.6/7

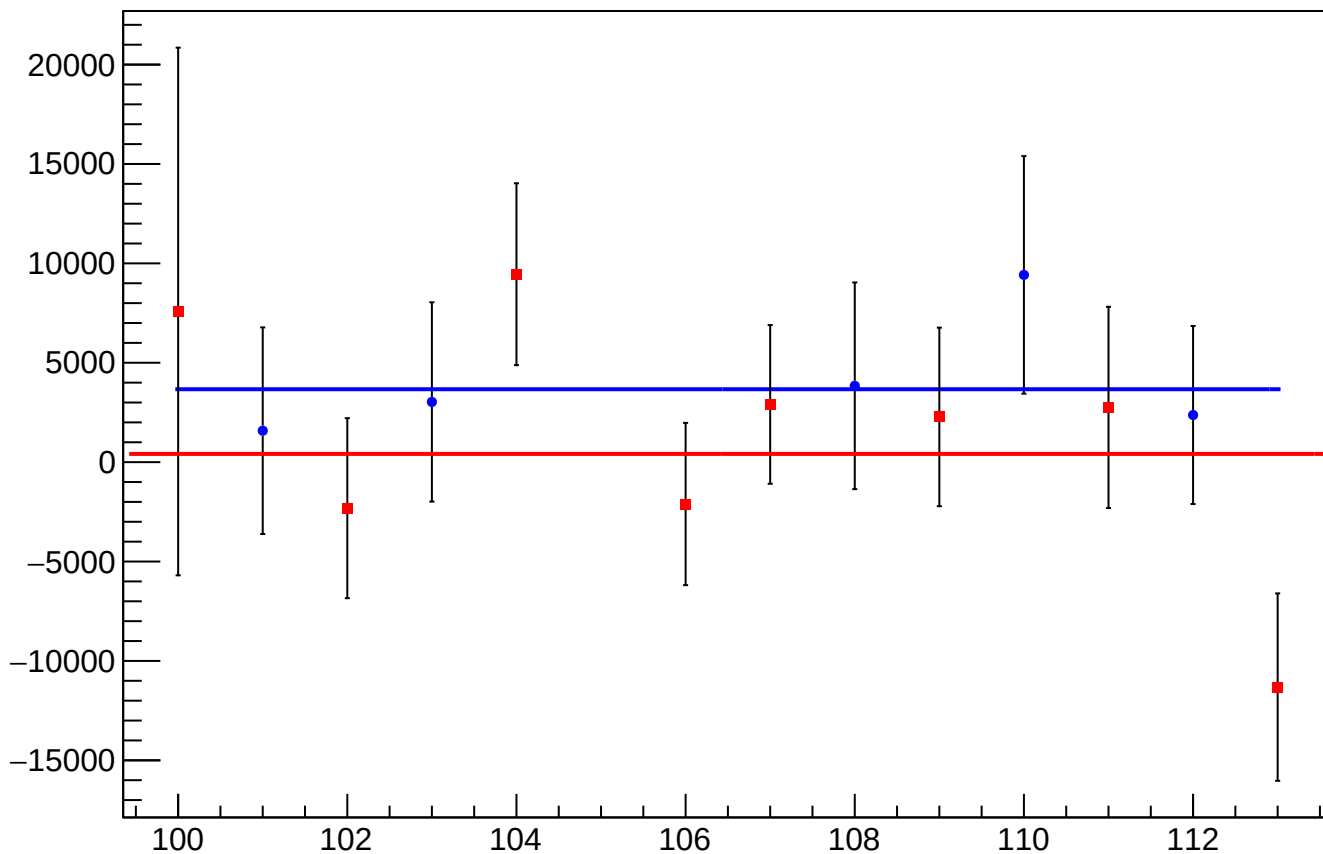
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1350.437 $\pm$ 0.417  $\chi^2$ /NDF: 598576.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_cor\_correction\_mean vs Slug



Right In: 3668.066+/-2284.100  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 415.290+/-1669.939  $\chi^2/\text{NDF}$ : 11.9/7

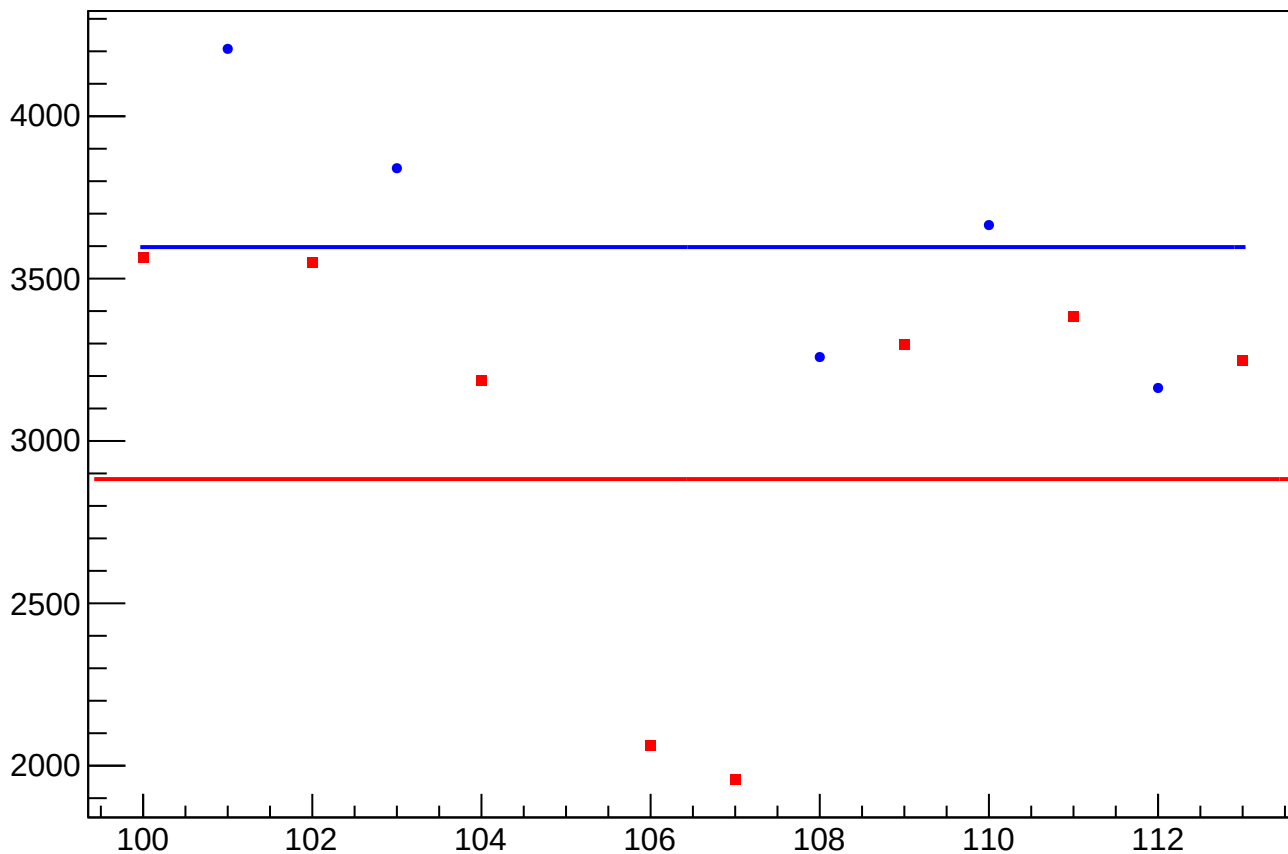
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1548.343+/-1348.072  $\chi^2/\text{NDF}$ : 14.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_cor\_correction\_rms vs Slug



Right In: 3597.041 $\pm$ 1.615  $\chi^2$ /NDF: 59803.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2882.604 $\pm$ 1.181  $\chi^2$ /NDF: 294878.4/7

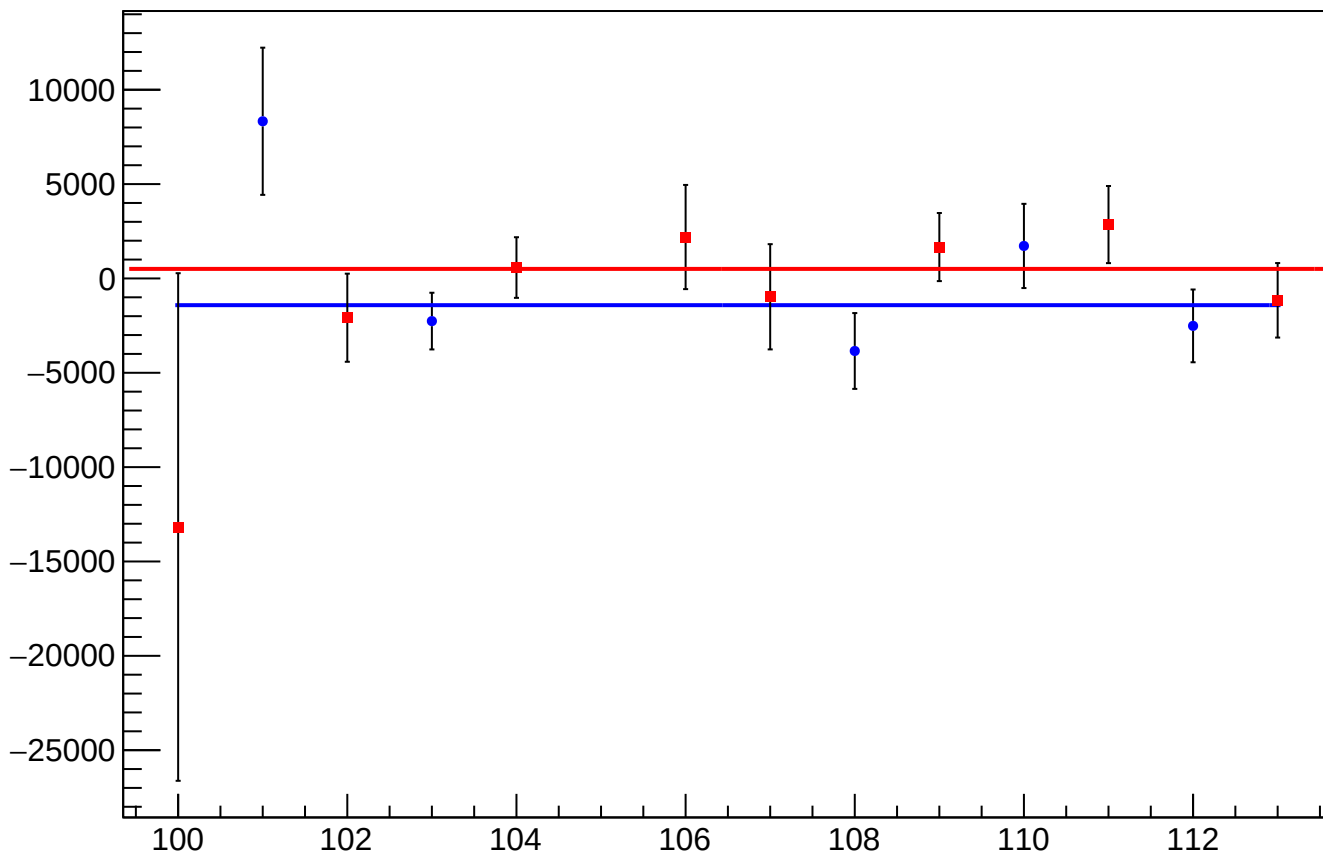
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3131.467 $\pm$ 0.953  $\chi^2$ /NDF: 482194.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -1416.367+/-902.919  $\chi^2/\text{NDF}$ : 10.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 505.605+/-781.025  $\chi^2/\text{NDF}$ : 5.4/7

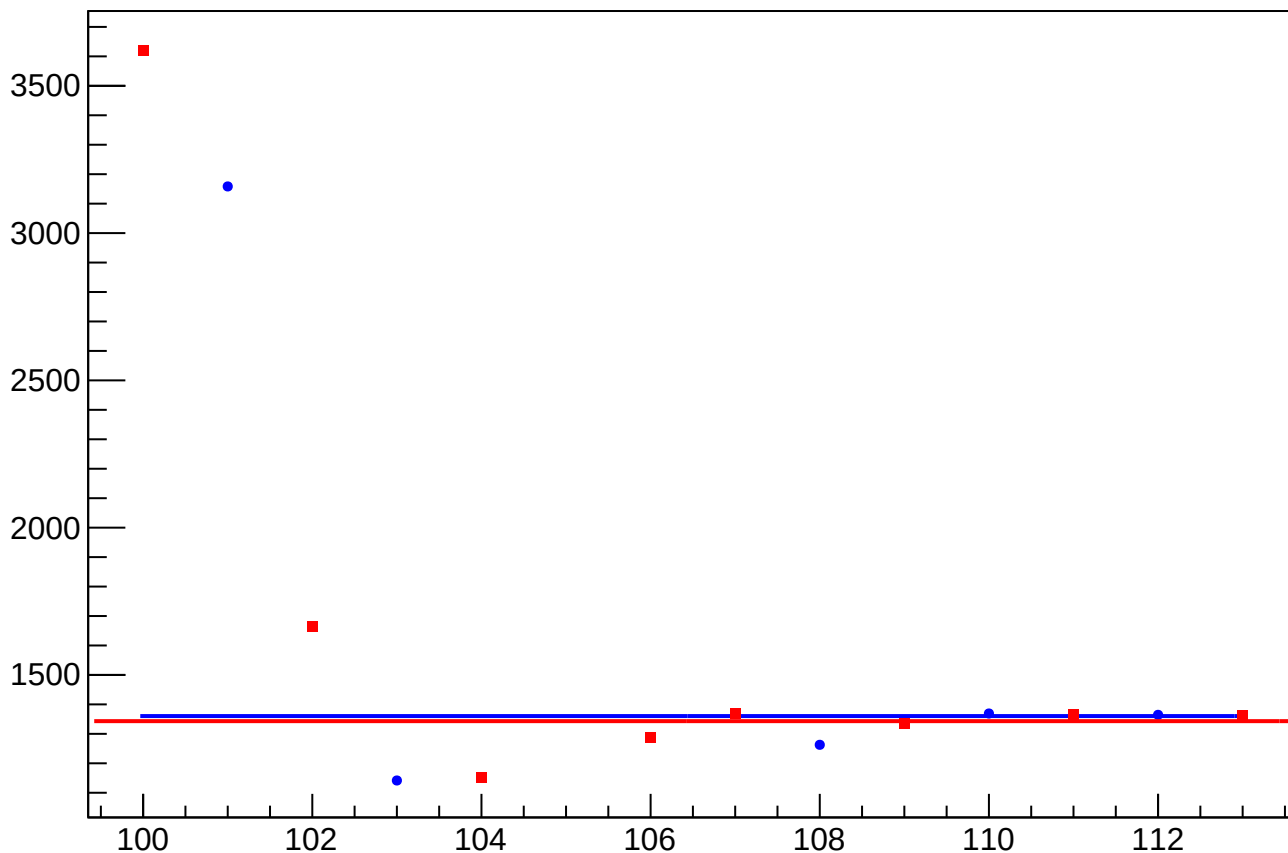
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -316.983+/-590.699  $\chi^2/\text{NDF}$ : 18.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 1360.316+/-0.638  $\chi^2/\text{NDF}$ : 472255.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1343.114+/-0.550  $\chi^2/\text{NDF}$ : 125904.6/7

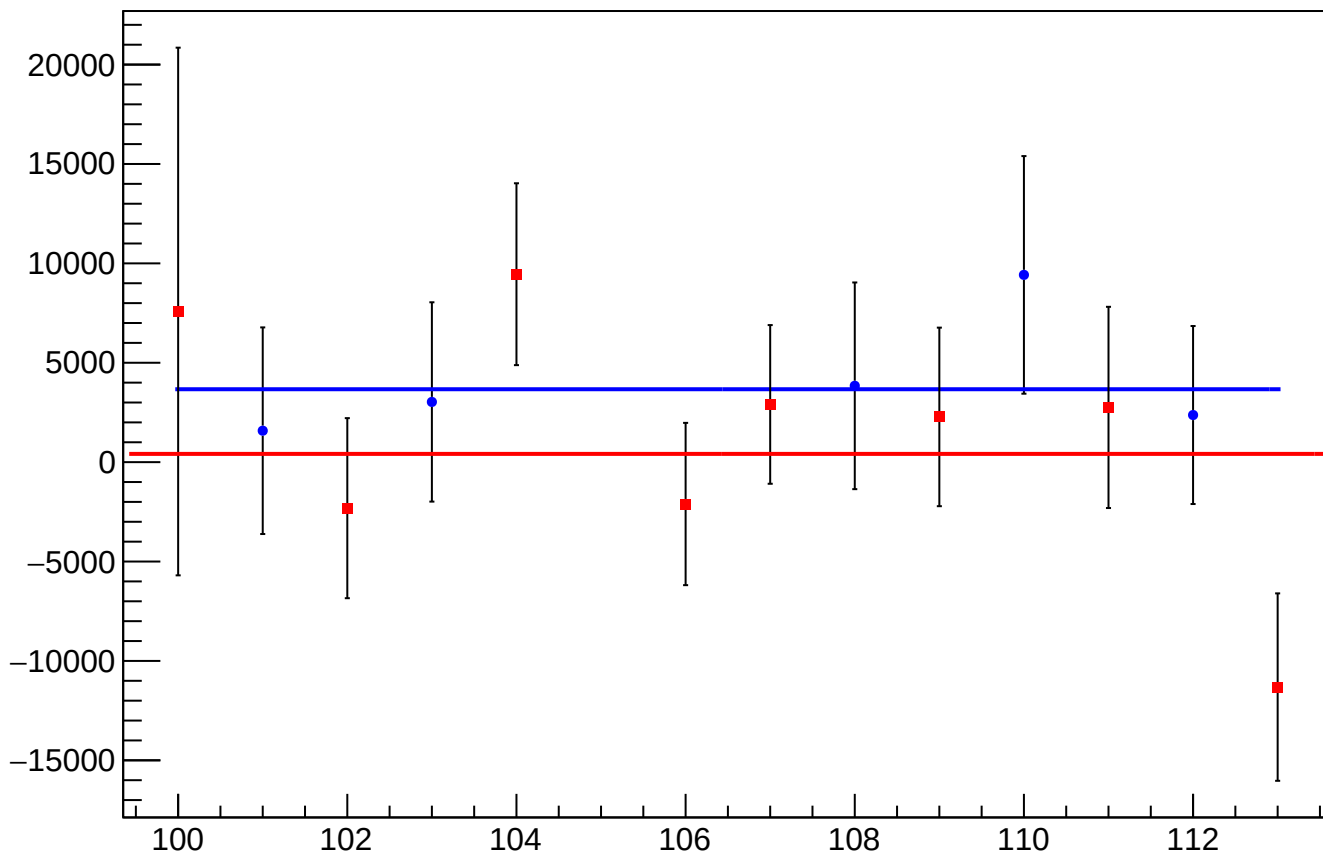
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1350.437+/-0.417  $\chi^2/\text{NDF}$ : 598576.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 3668.066 $\pm$ 2284.100  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 415.290 $\pm$ 1669.939  $\chi^2$ /NDF: 11.9/7

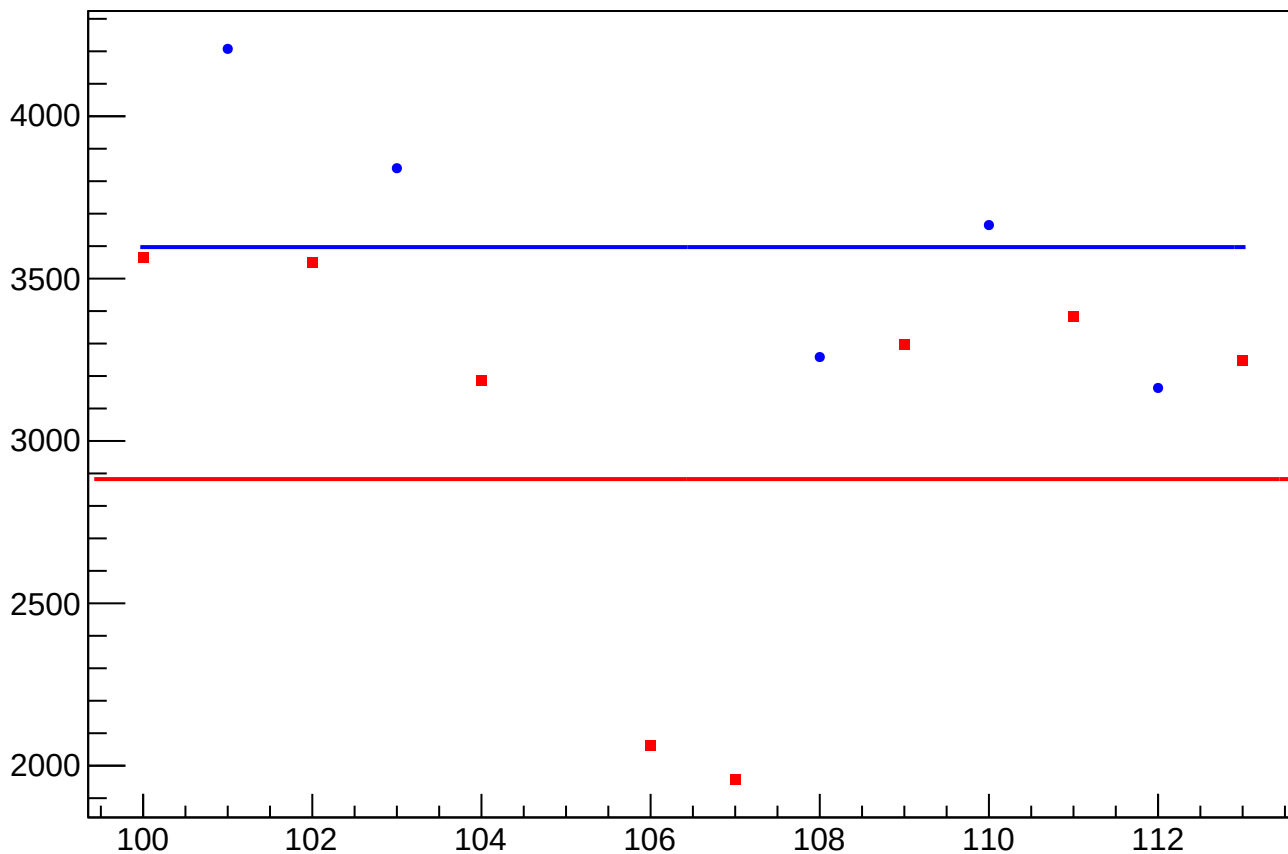
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1548.343 $\pm$ 1348.072  $\chi^2$ /NDF: 14.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3597.041+/-1.615  $\chi^2/\text{NDF}$ : 59803.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2882.604+/-1.181  $\chi^2/\text{NDF}$ : 294878.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

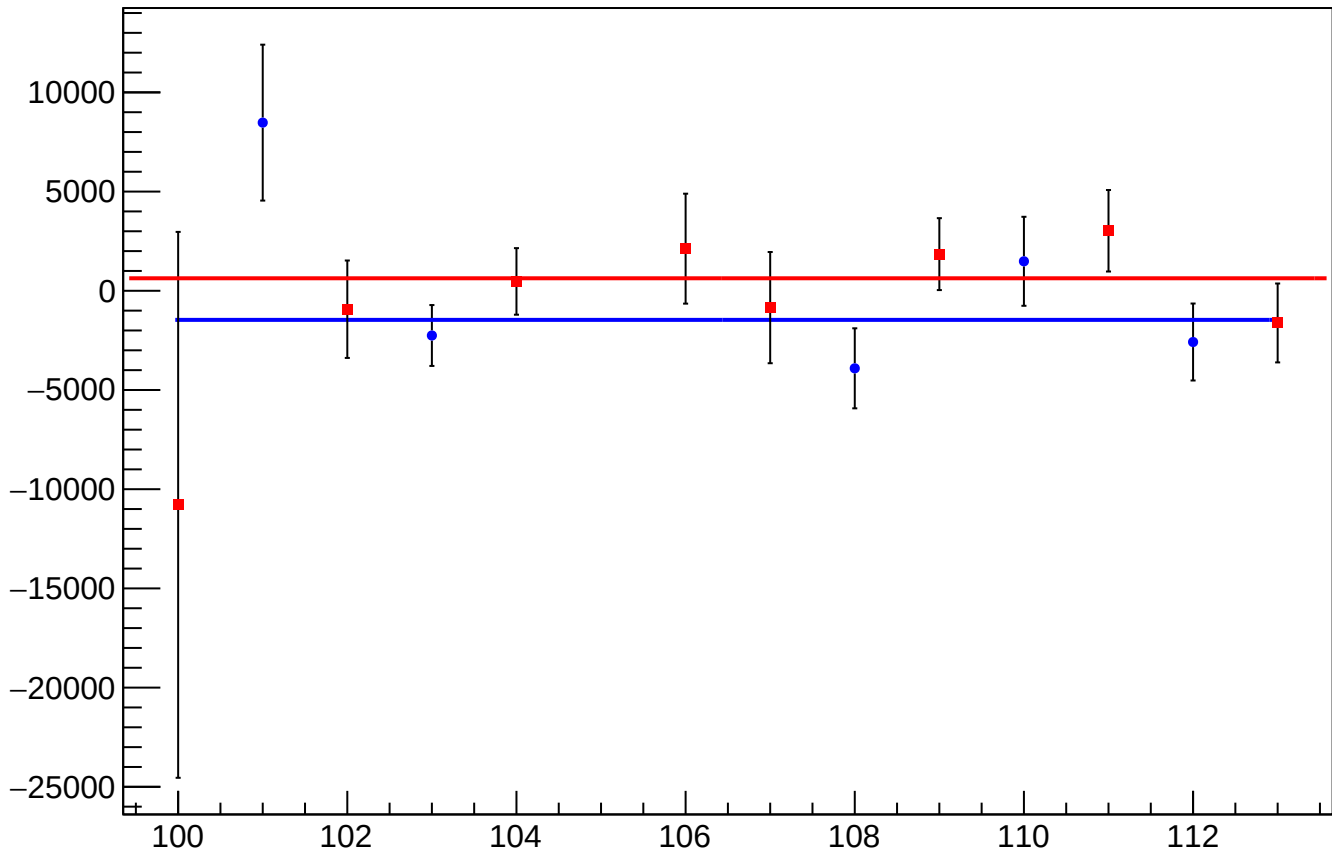
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3131.467+/-0.953  $\chi^2/\text{NDF}$ : 482194.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -1466.101 $\pm$ 912.879  $\chi^2$ /NDF: 10.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 630.333 $\pm$ 795.893  $\chi^2$ /NDF: 4.8/7

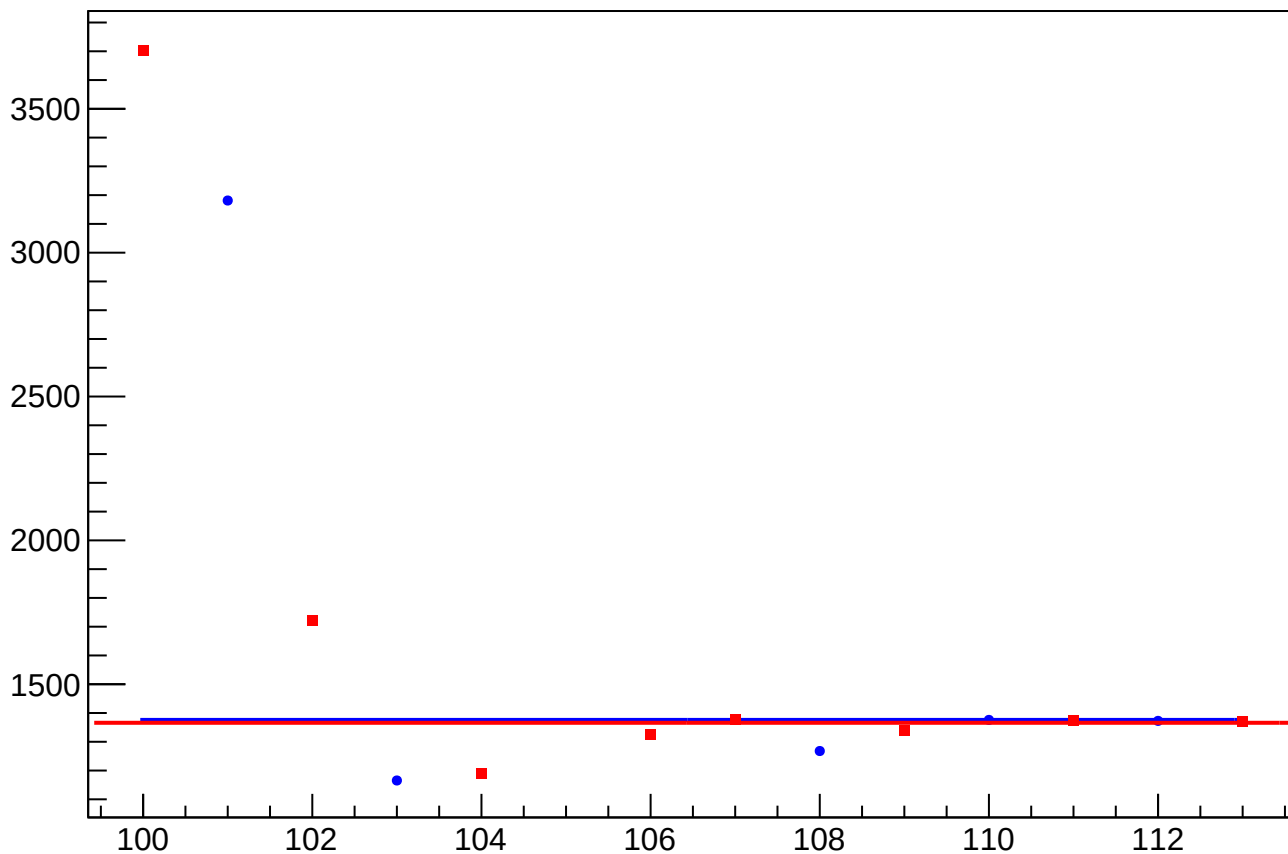
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -275.028 $\pm$ 599.906  $\chi^2$ /NDF: 18.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 1375.999 $\pm$ 0.646  $\chi^2$ /NDF: 465624.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1365.991 $\pm$ 0.562  $\chi^2$ /NDF: 122488.1/7

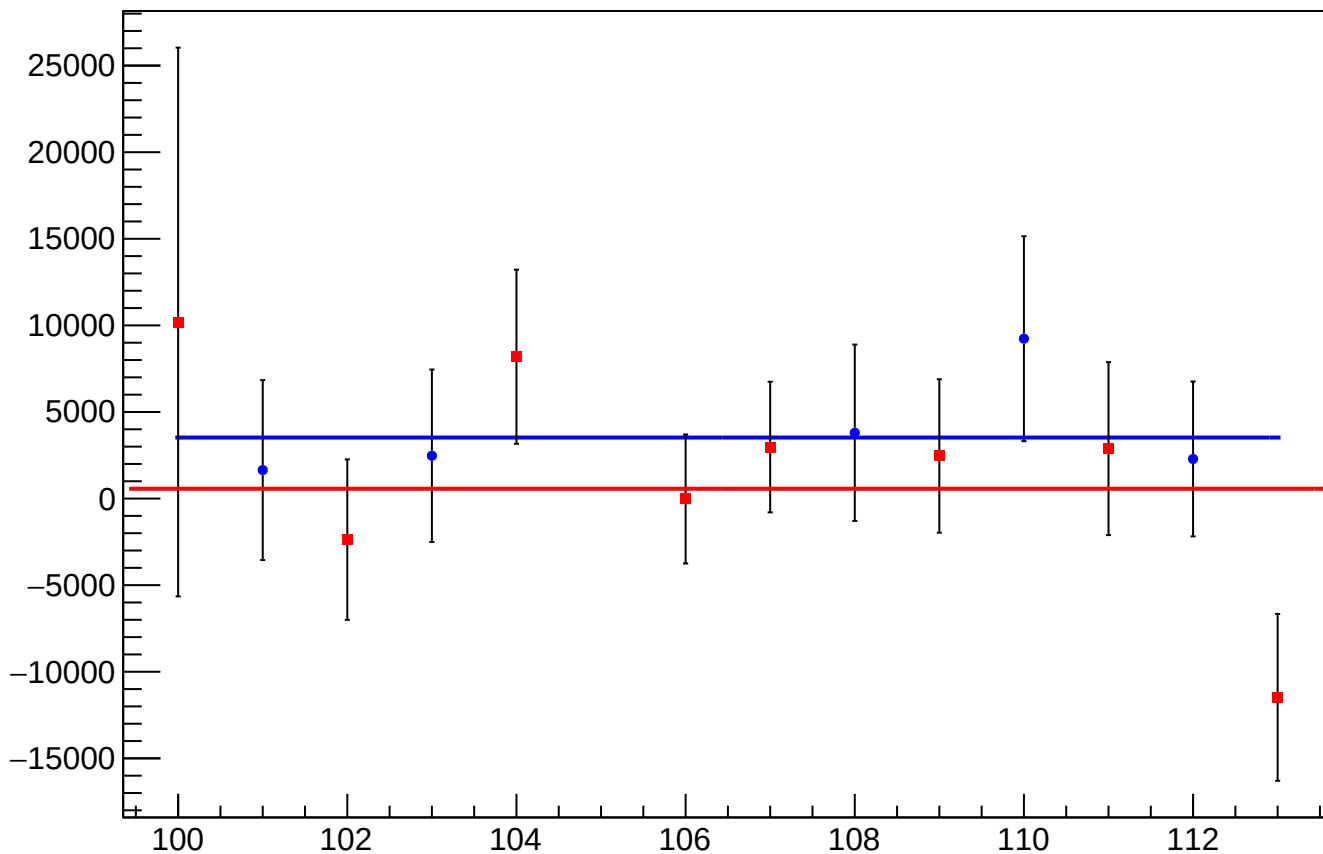
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1370.303 $\pm$ 0.424  $\chi^2$ /NDF: 588249.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_dit\_correction\_mean vs Slug



Right In: 3523.630+/-2267.241  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 567.301+/-1651.209  $\chi^2/\text{NDF}$ : 10.2/7

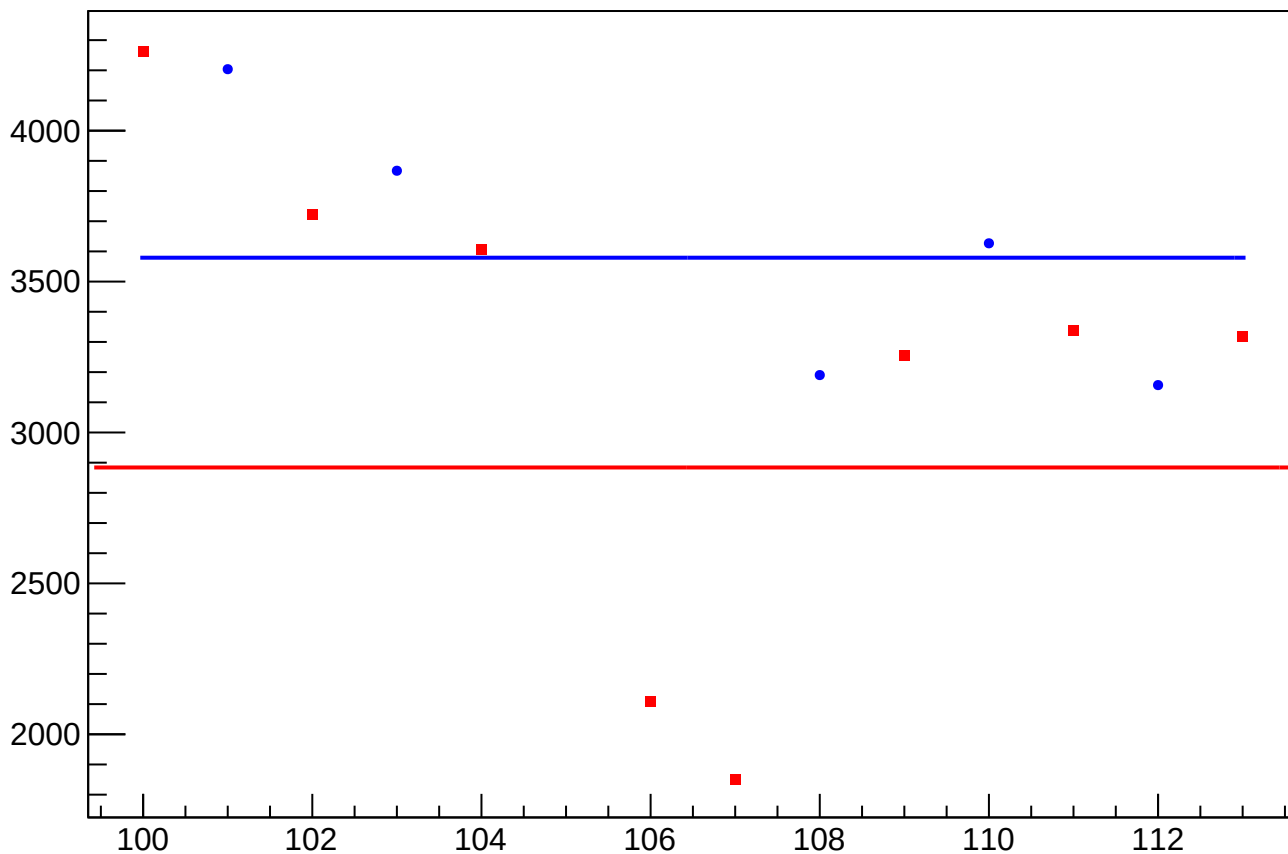
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1591.901+/-1334.746  $\chi^2/\text{NDF}$ : 12.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_dit\_correction\_rms vs Slug



Right In: 3579.136+/-1.603  $\chi^2/\text{NDF}$ : 65221.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2884.066+/-1.168  $\chi^2/\text{NDF}$ : 406307.8/7

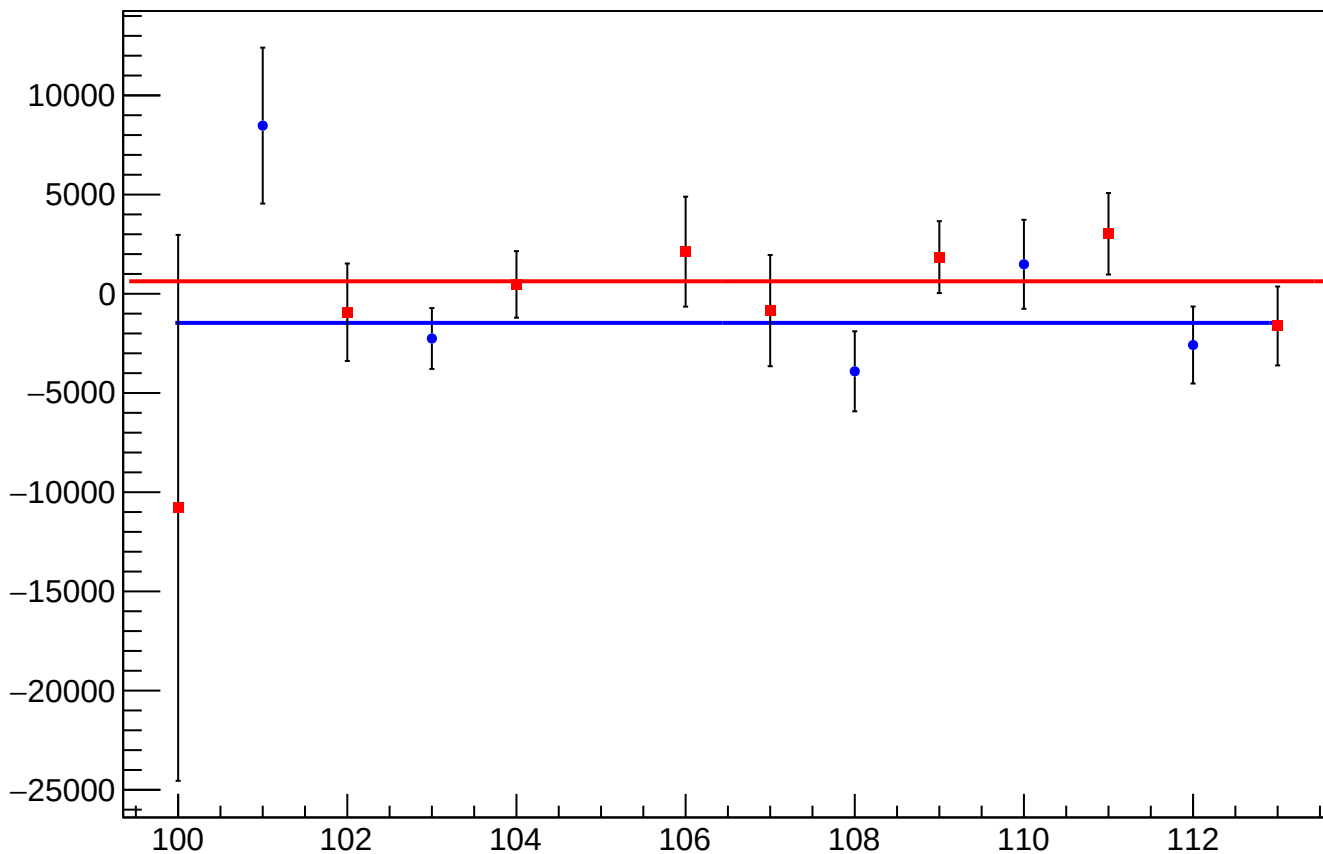
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3124.963+/-0.944  $\chi^2/\text{NDF}$ : 594353.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -1466.108 $\pm$ 912.879  $\chi^2/\text{NDF}$ : 10.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 630.343 $\pm$ 795.893  $\chi^2/\text{NDF}$ : 4.8/7

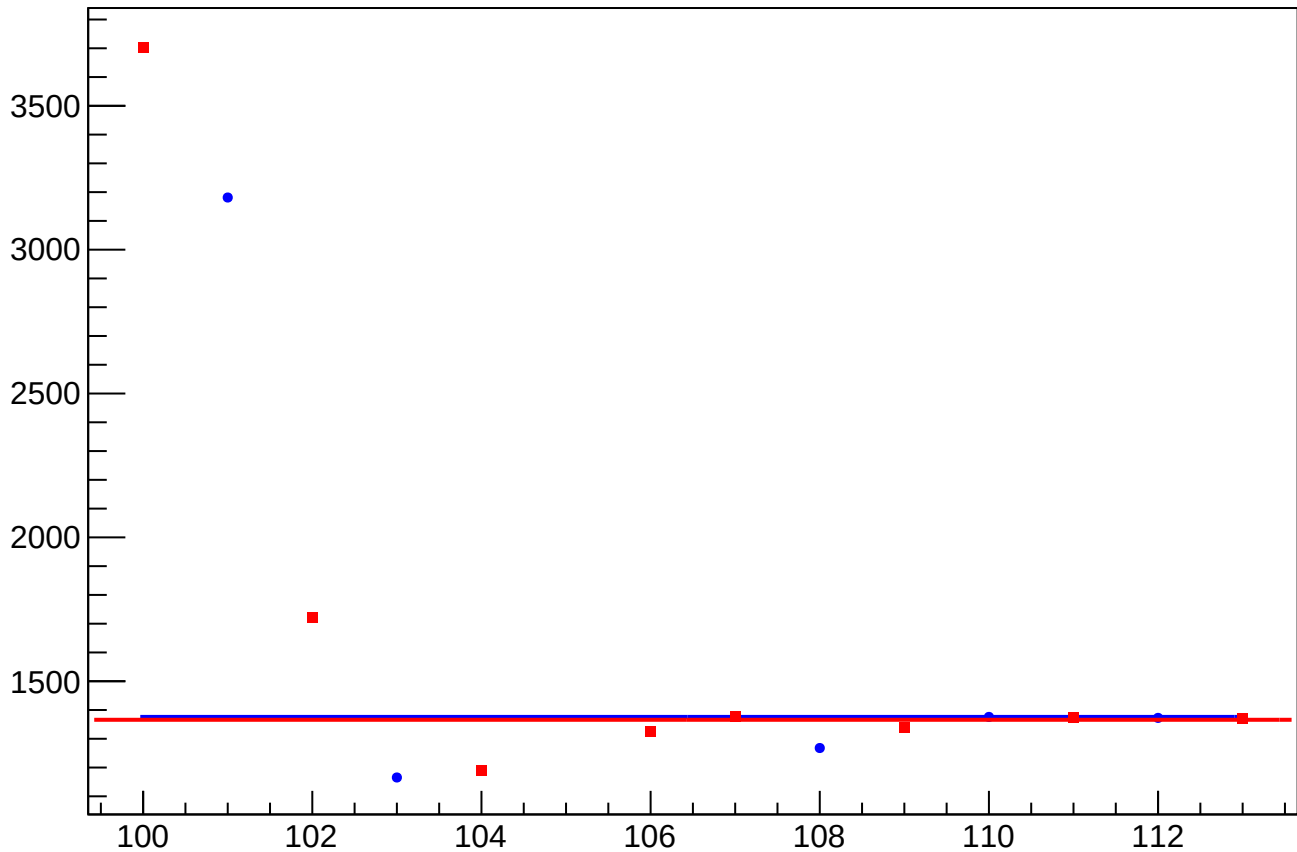
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -275.025 $\pm$ 599.906  $\chi^2/\text{NDF}$ : 18.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 1375.999+/-0.646  $\chi^2/\text{NDF}$ : 465624.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1365.991+/-0.562  $\chi^2/\text{NDF}$ : 122488.1/7

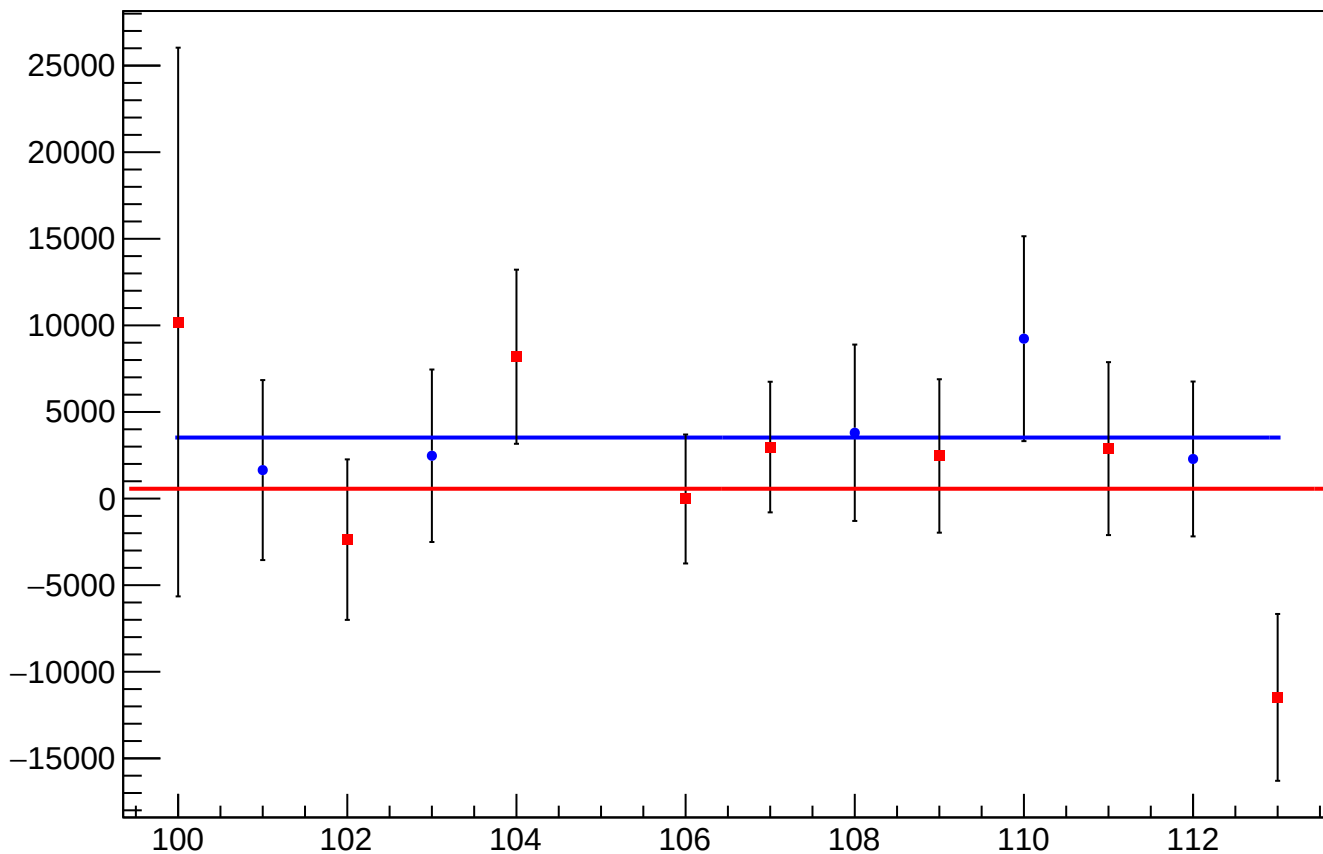
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1370.303+/-0.424  $\chi^2/\text{NDF}$ : 588249.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 3523.628+/-2267.238  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 567.306+/-1651.206  $\chi^2/\text{NDF}$ : 10.2/7

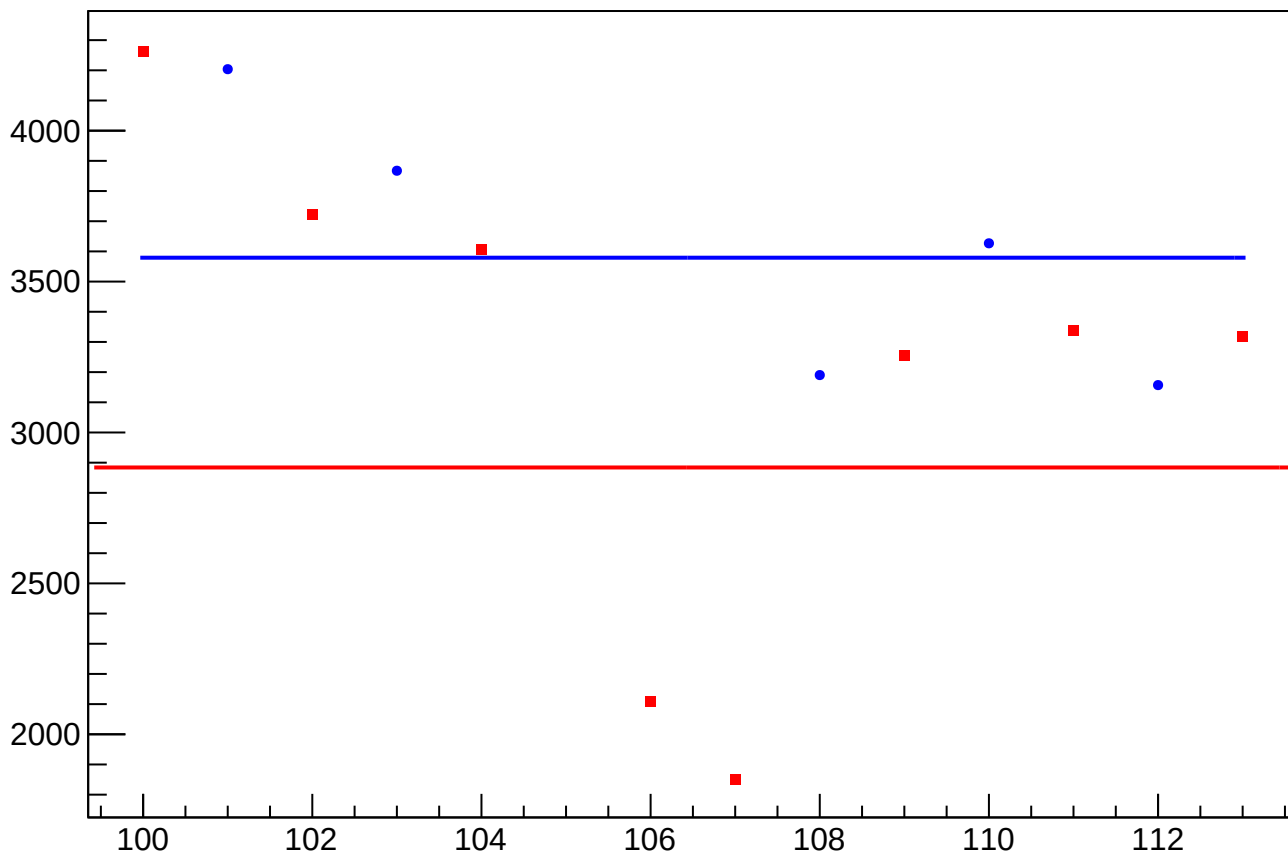
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1591.903+/-1334.744  $\chi^2/\text{NDF}$ : 12.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 3579.131+/-1.603  $\chi^2/\text{NDF}$ : 65222.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2884.060+/-1.168  $\chi^2/\text{NDF}$ : 406310.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

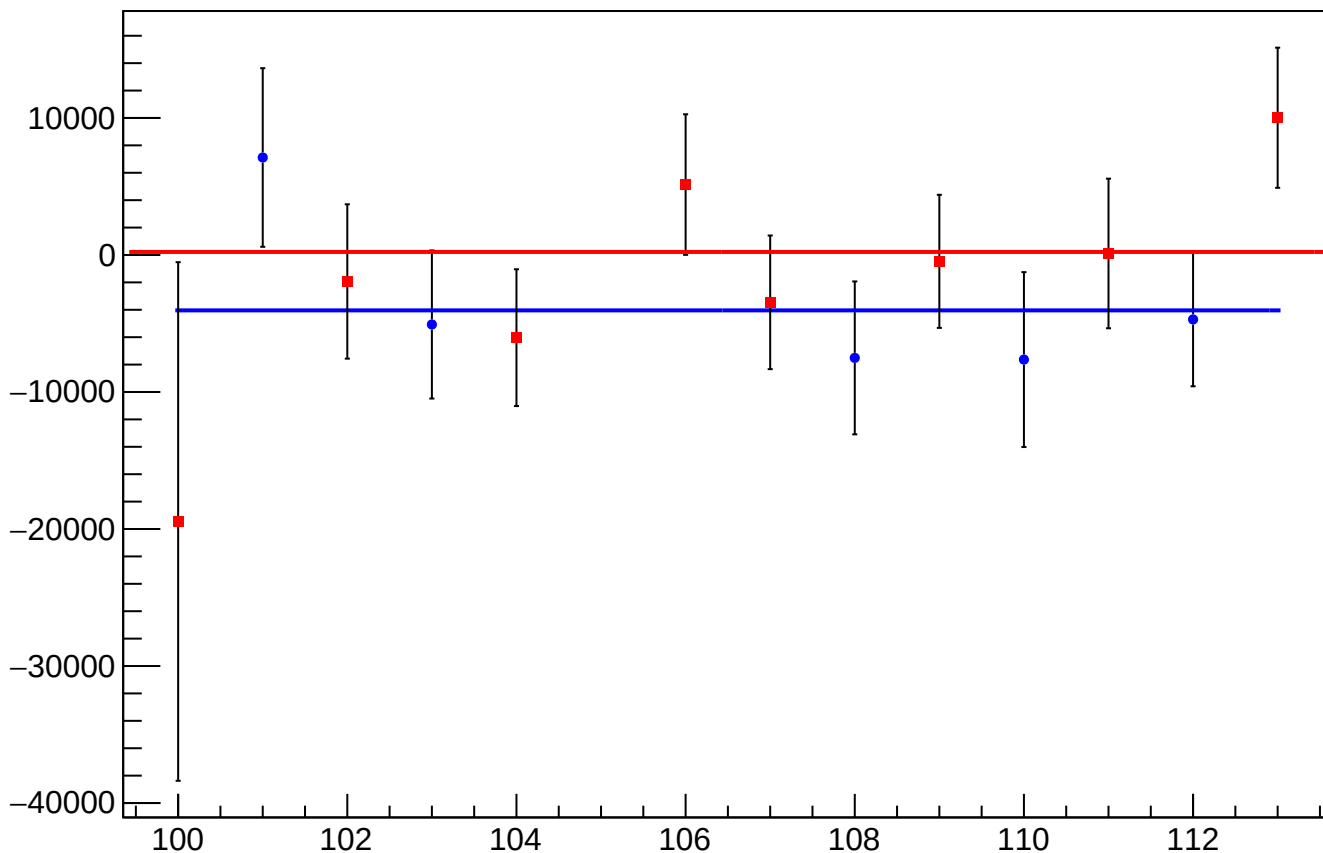
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3124.957+/-0.944  $\chi^2/\text{NDF}$ : 594357.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -4042.931 $\pm$ 2528.329  $\chi^2/\text{NDF}$ : 3.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 221.731 $\pm$ 1929.250  $\chi^2/\text{NDF}$ : 8.0/7

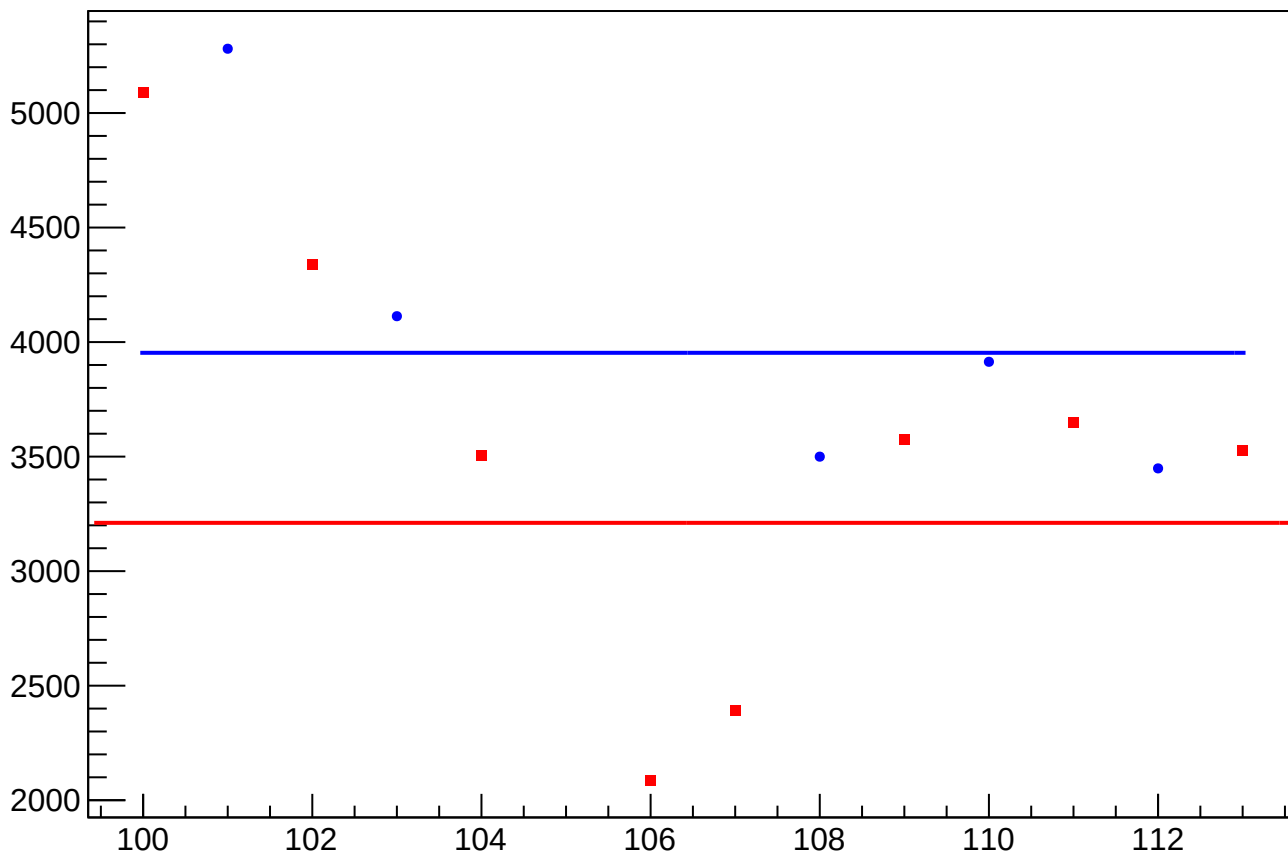
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1347.617 $\pm$ 1533.737  $\chi^2/\text{NDF}$ : 13.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 3953.175+/-1.788  $\chi^2/\text{NDF}$ : 119376.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3210.851+/-1.326  $\chi^2/\text{NDF}$ : 329634.4/7

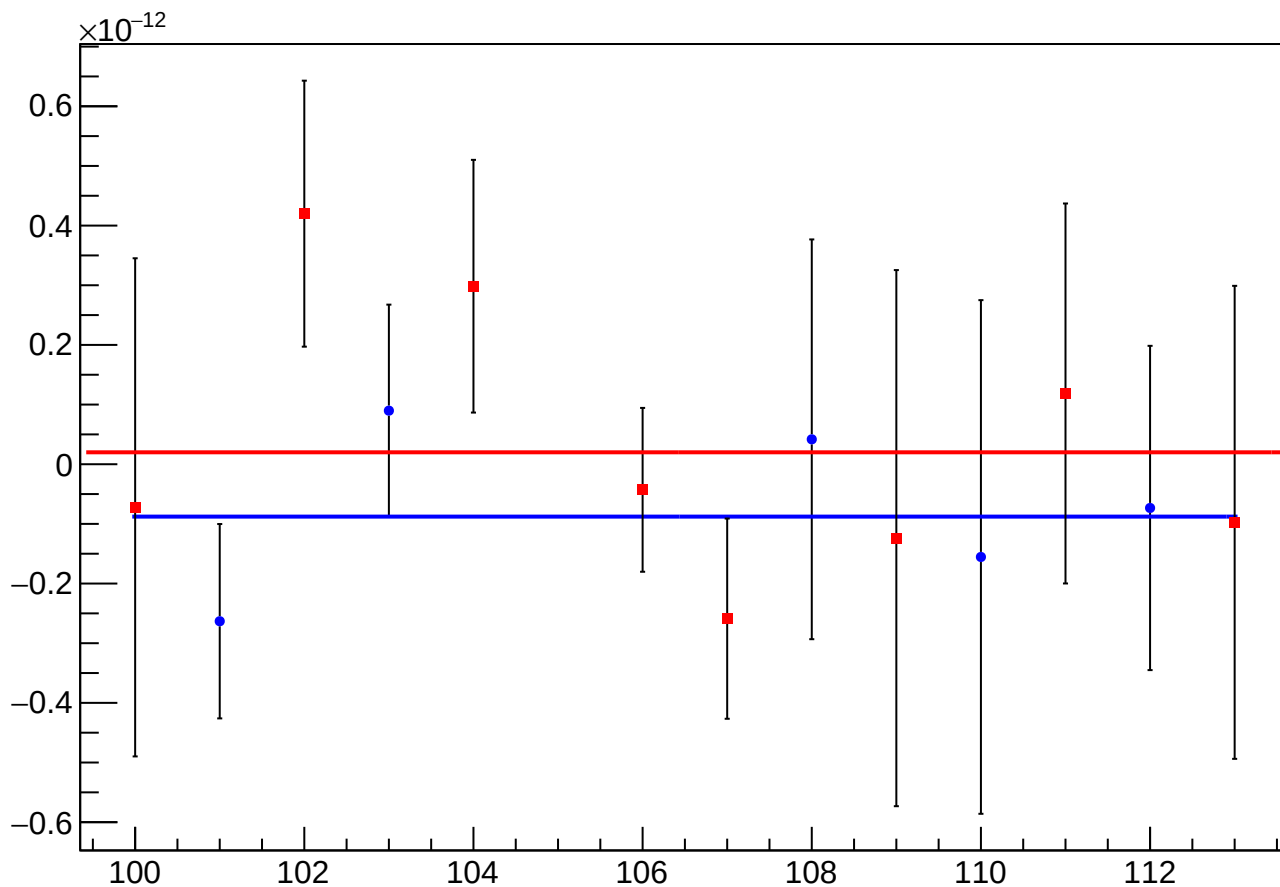
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3474.362+/-1.065  $\chi^2/\text{NDF}$ : 560221.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.3/7

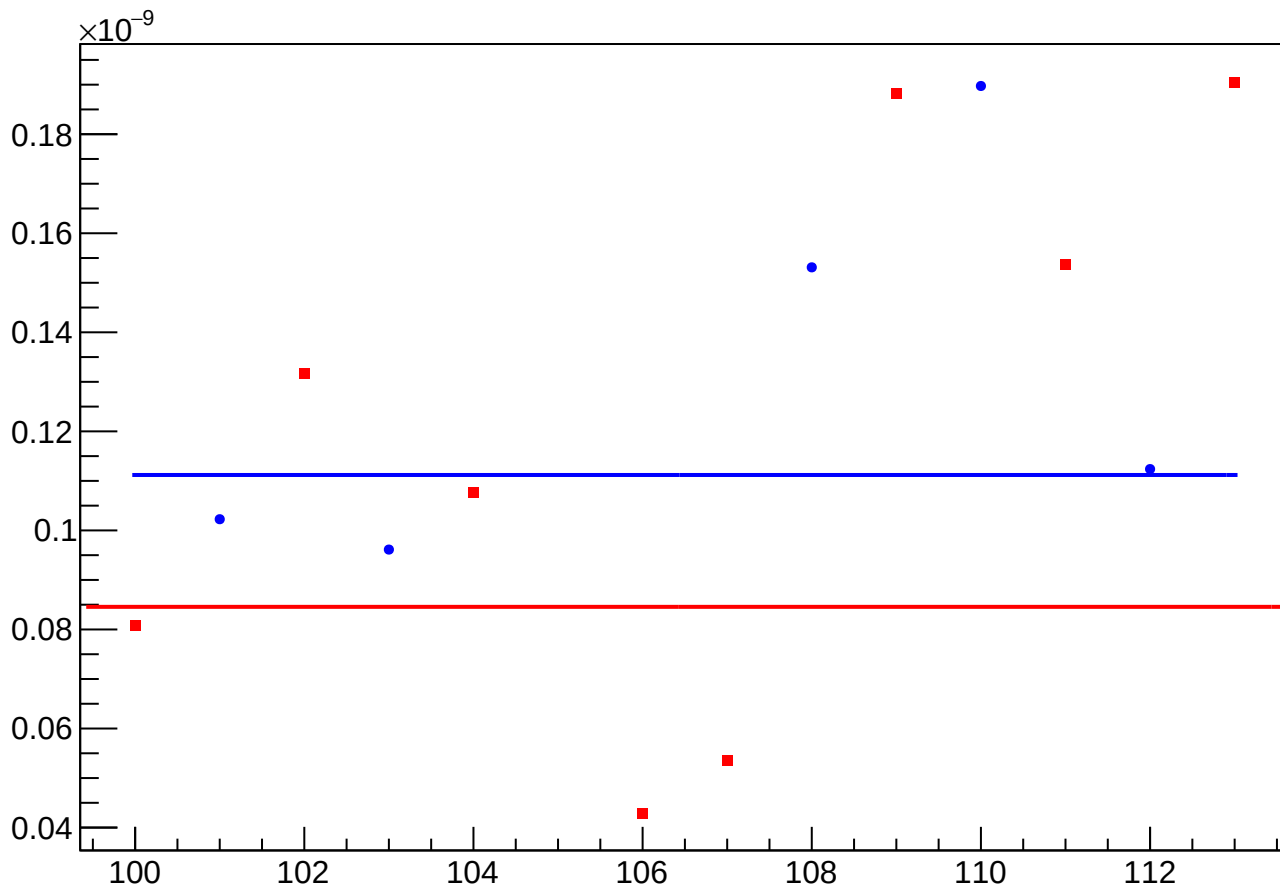
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 118302.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 710553.9/7

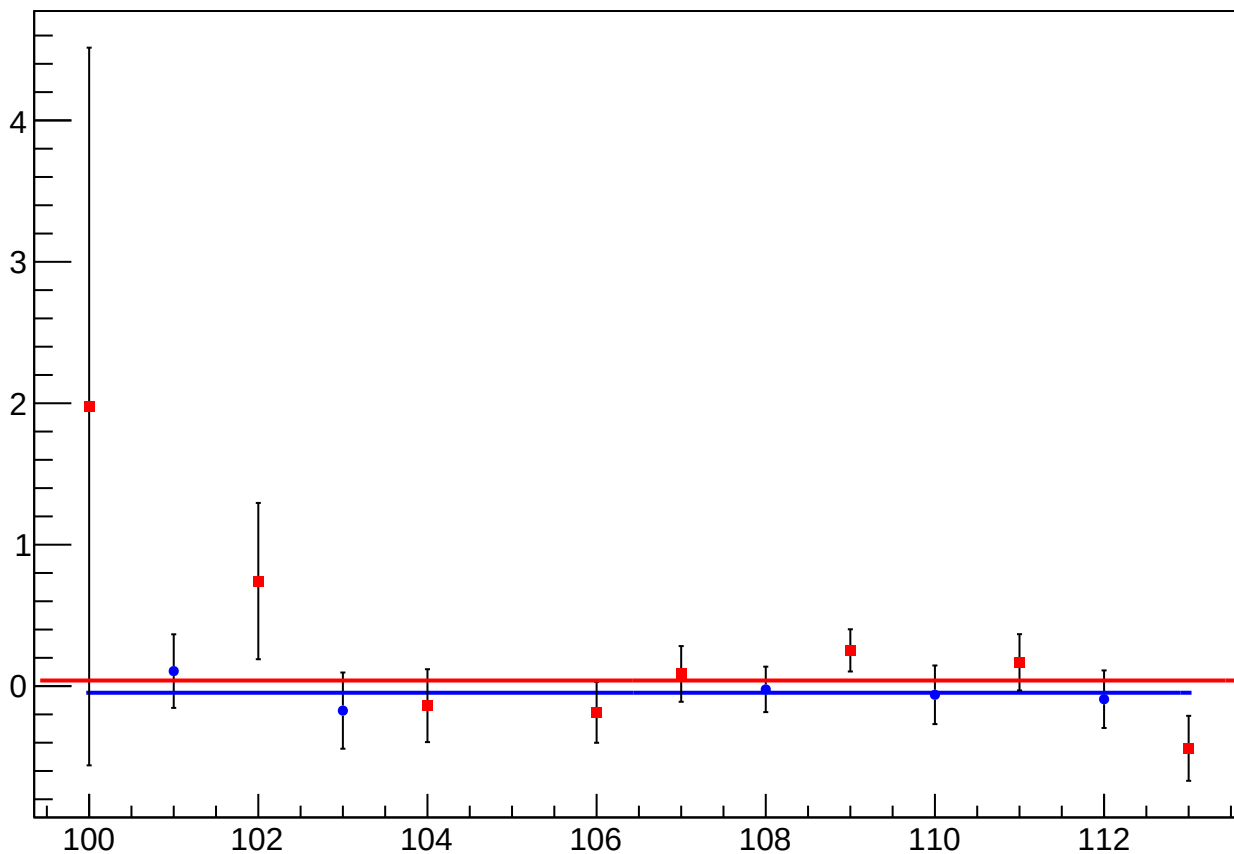
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 914143.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.047 $\pm$ 0.093  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.040 $\pm$ 0.080  $\chi^2$ /NDF: 10.6/7

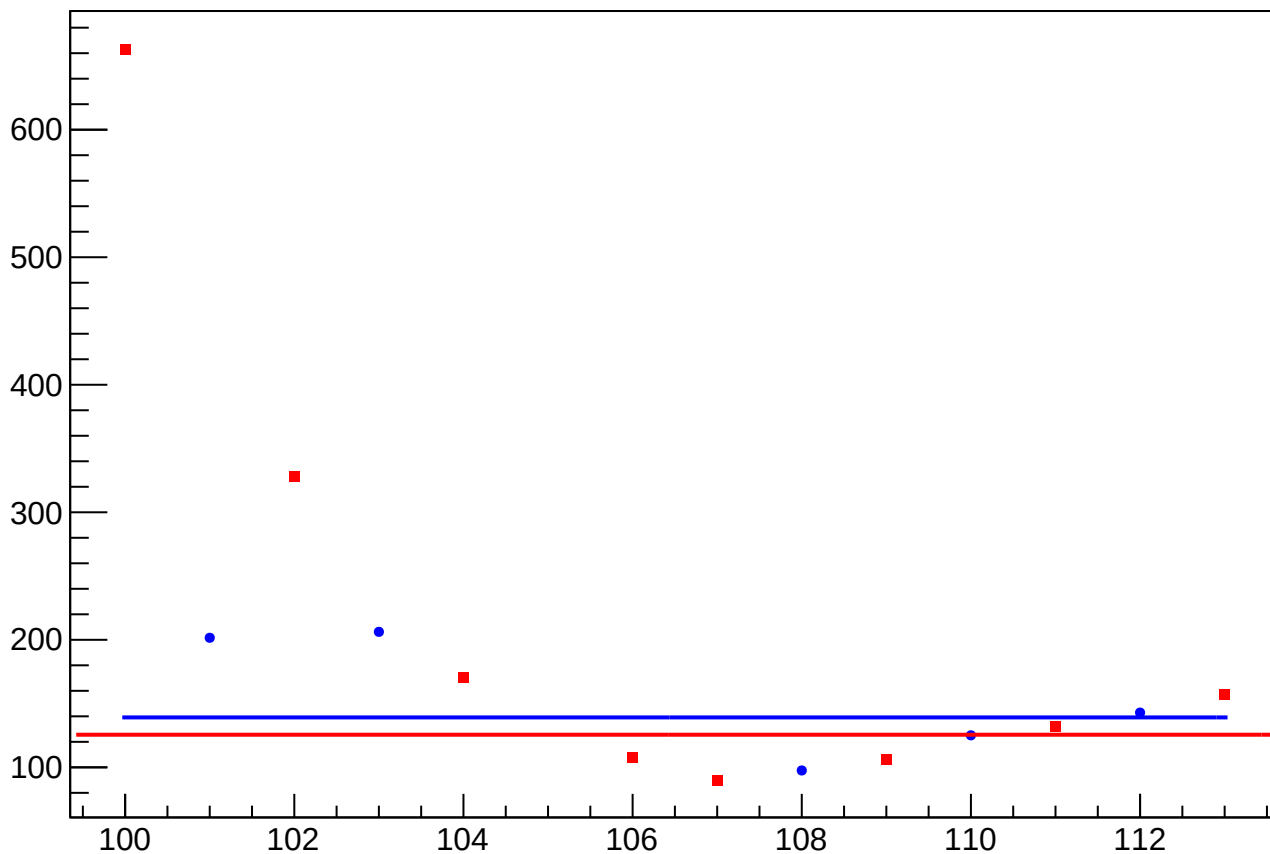
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.061  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.147+/-0.066  $\chi^2/\text{NDF}$ : 383175.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 125.574+/-0.057  $\chi^2/\text{NDF}$ : 572839.9/7

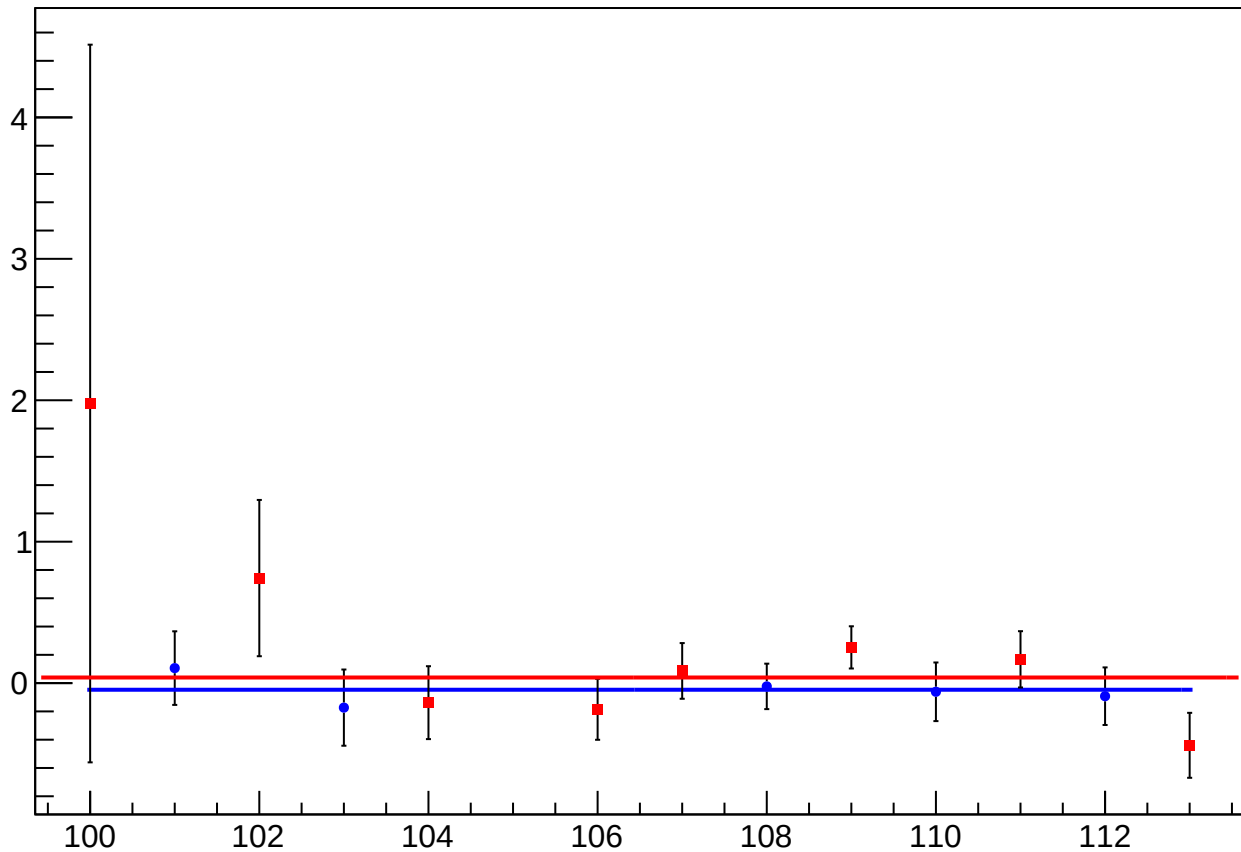
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 131.349+/-0.043  $\chi^2/\text{NDF}$ : 980297.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.047 $\pm$ -0.093  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.040 $\pm$ -0.080  $\chi^2$ /NDF: 10.6/7

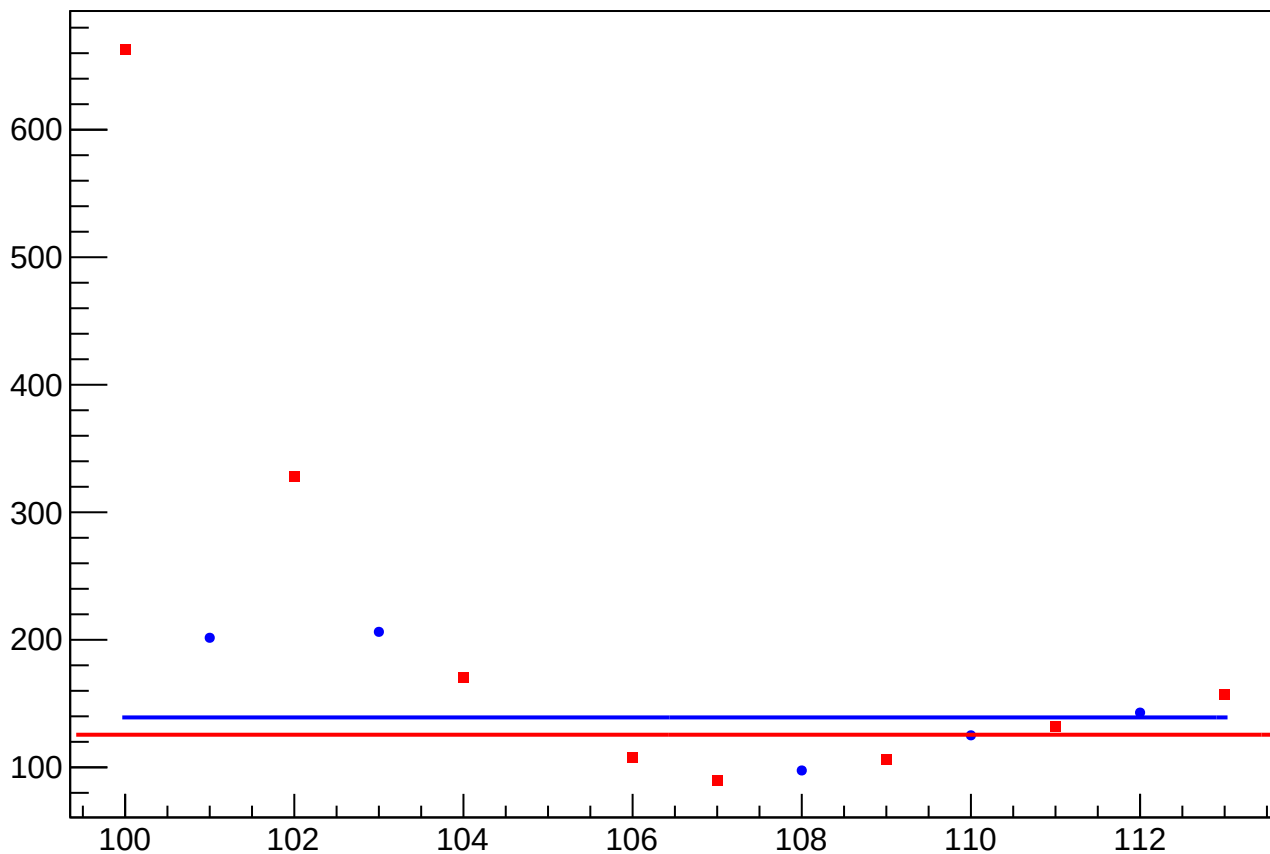
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ -0.061  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.147 $\pm$ 0.066  $\chi^2$ /NDF: 383175.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 125.574 $\pm$ 0.057  $\chi^2$ /NDF: 572839.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

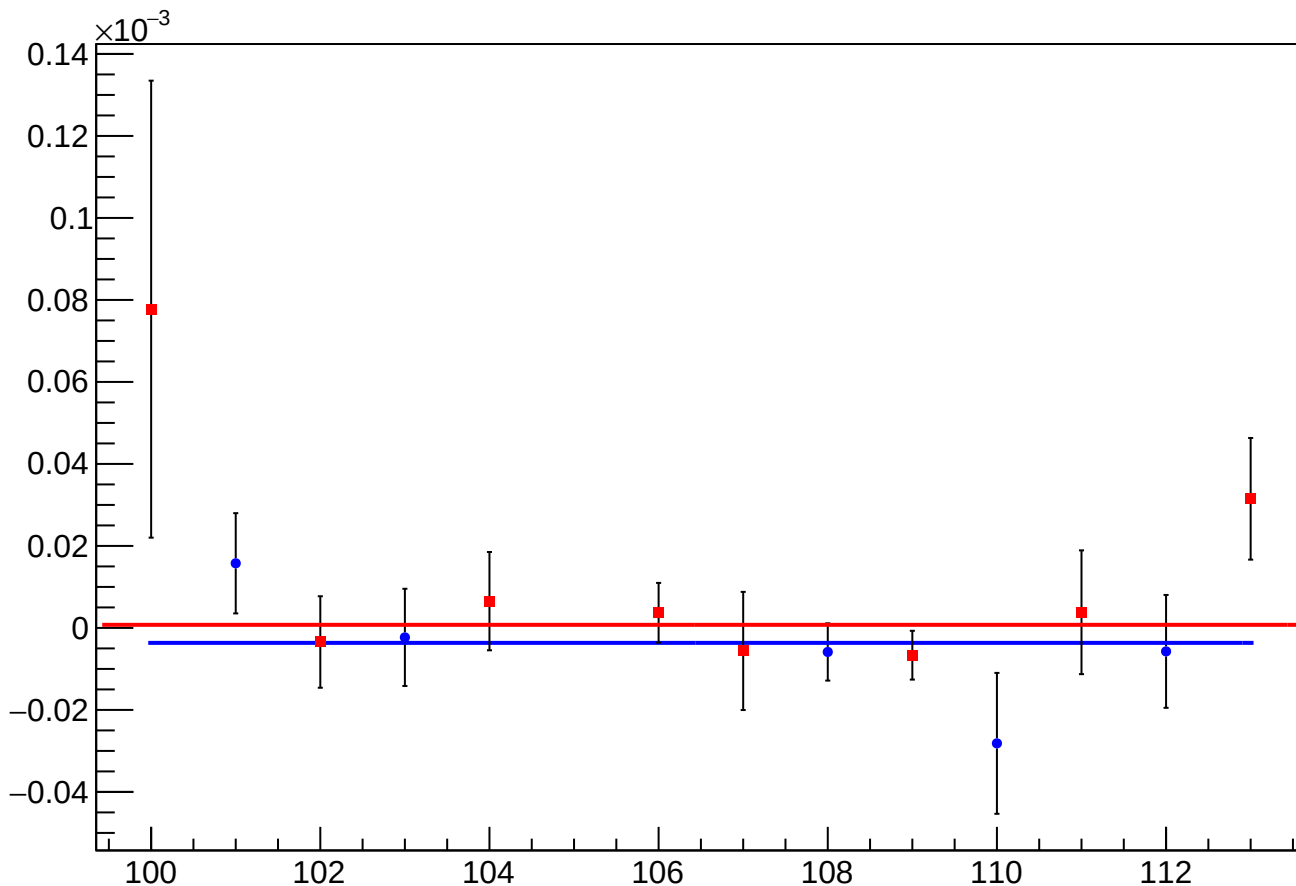
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 131.349 $\pm$ 0.043  $\chi^2$ /NDF: 980297.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.5/7

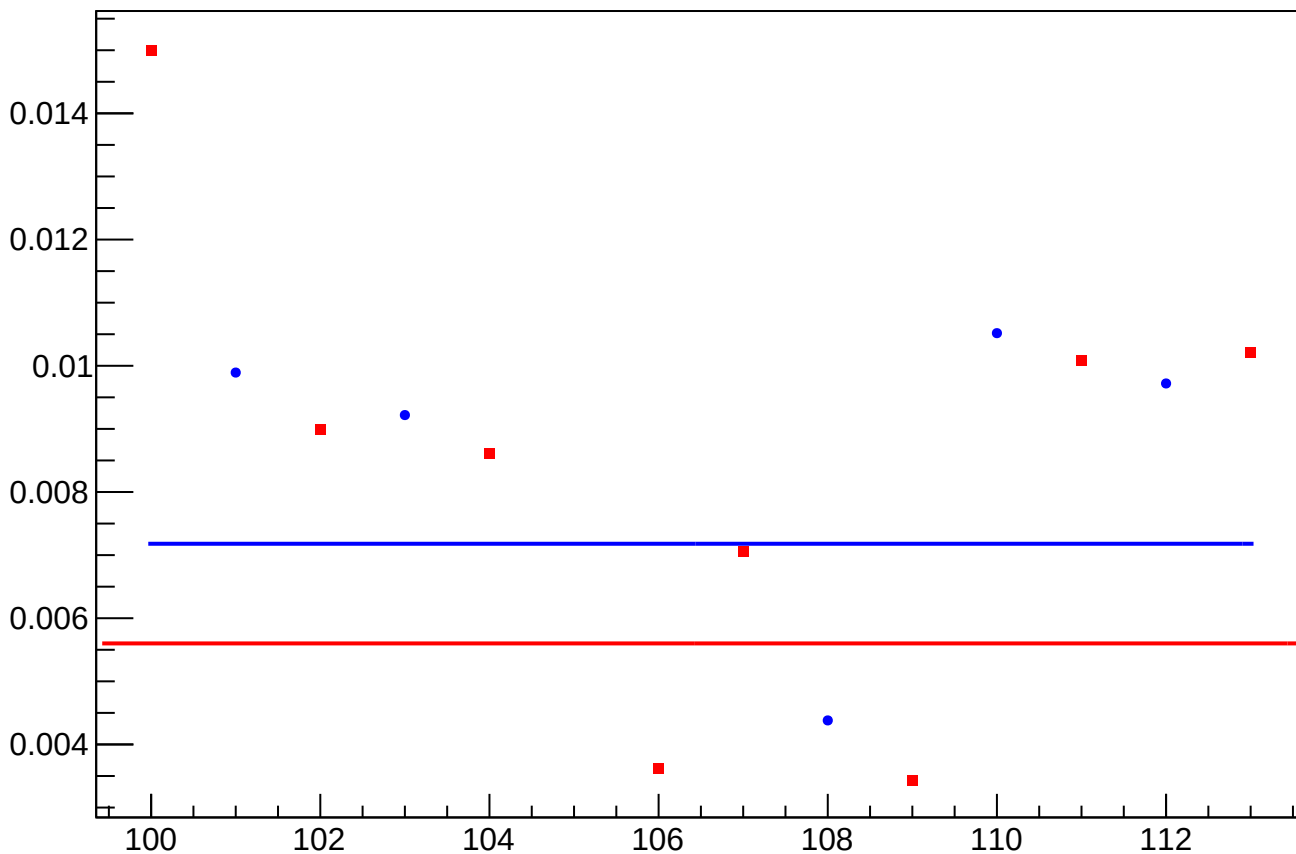
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 622404.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1173624.1/7

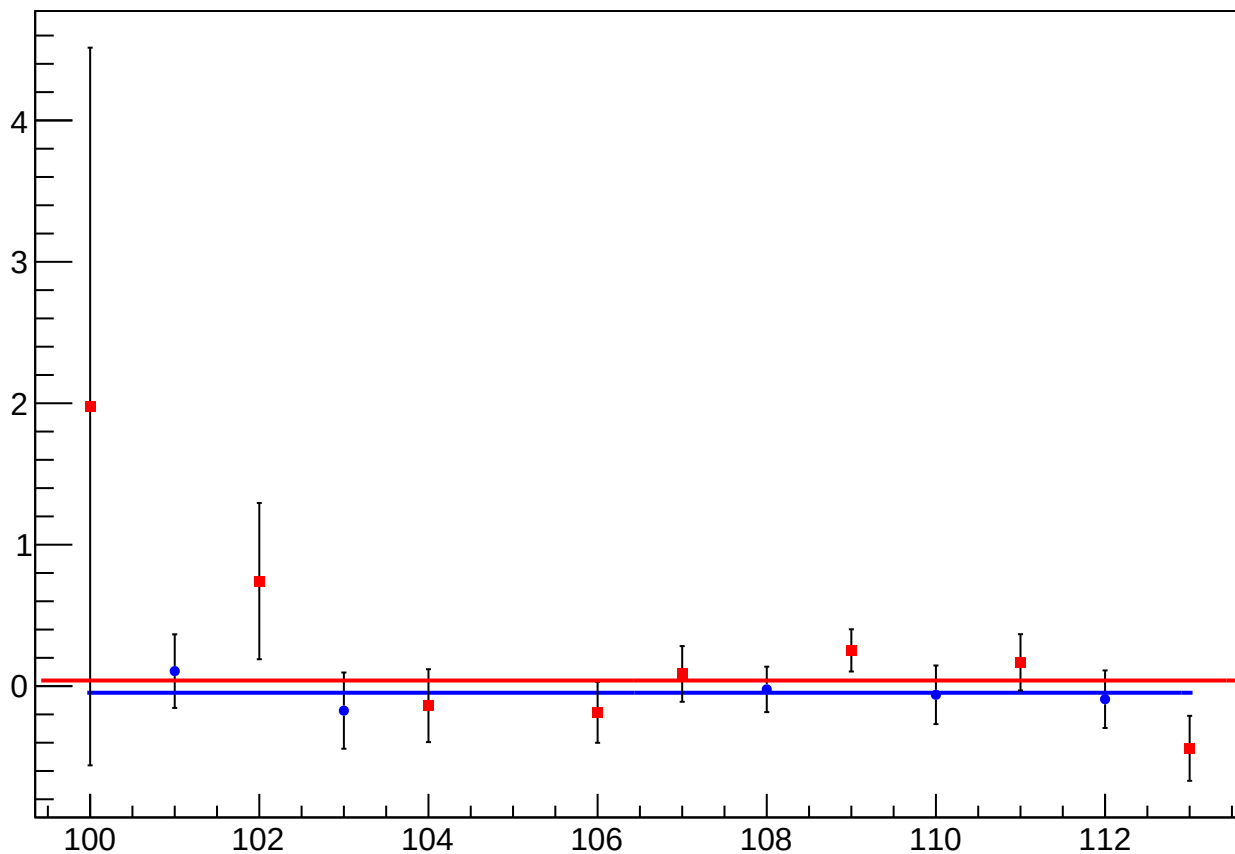
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1933030.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.047 $\pm$ 0.093  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.040 $\pm$ 0.080  $\chi^2$ /NDF: 10.6/7

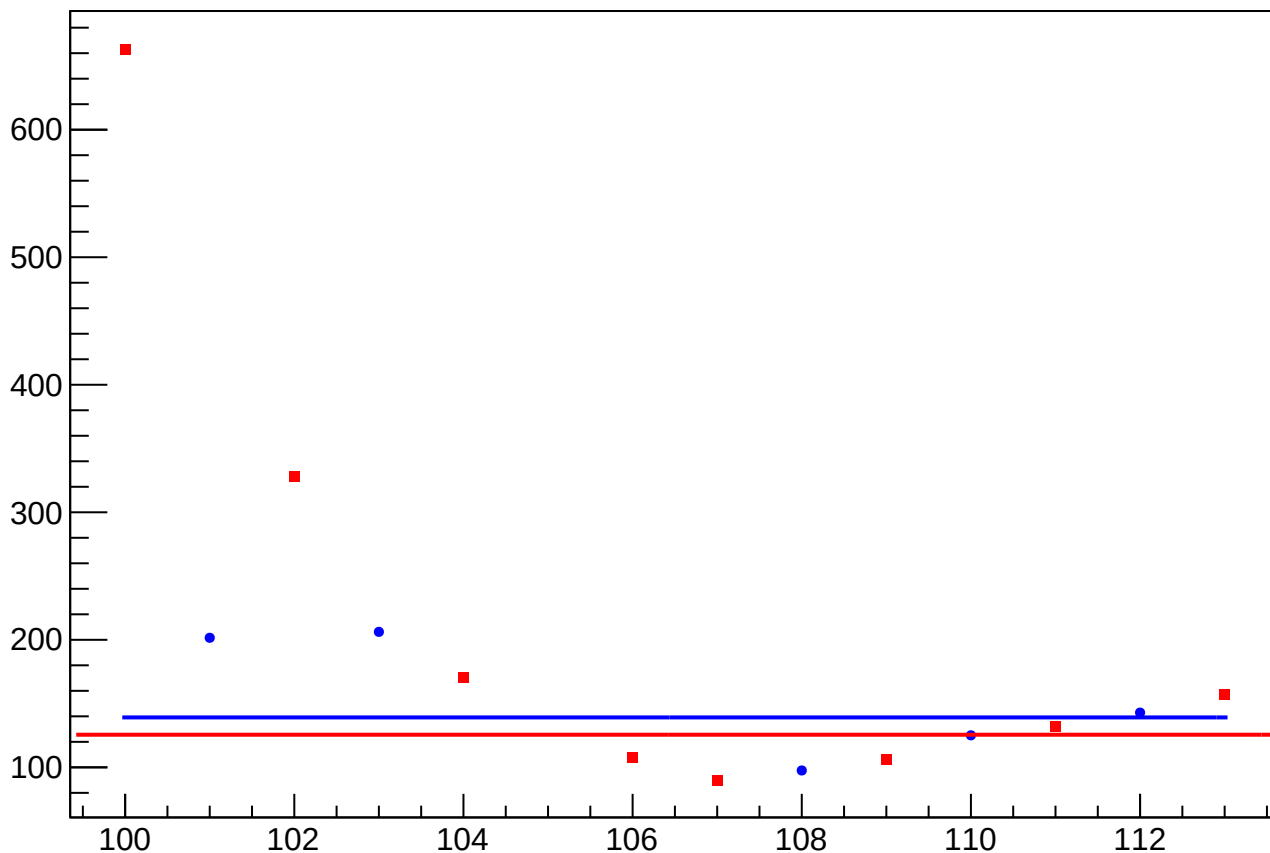
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.061  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.149+/-0.066  $\chi^2/\text{NDF}$ : 383138.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 125.576+/-0.057  $\chi^2/\text{NDF}$ : 572795.4/7

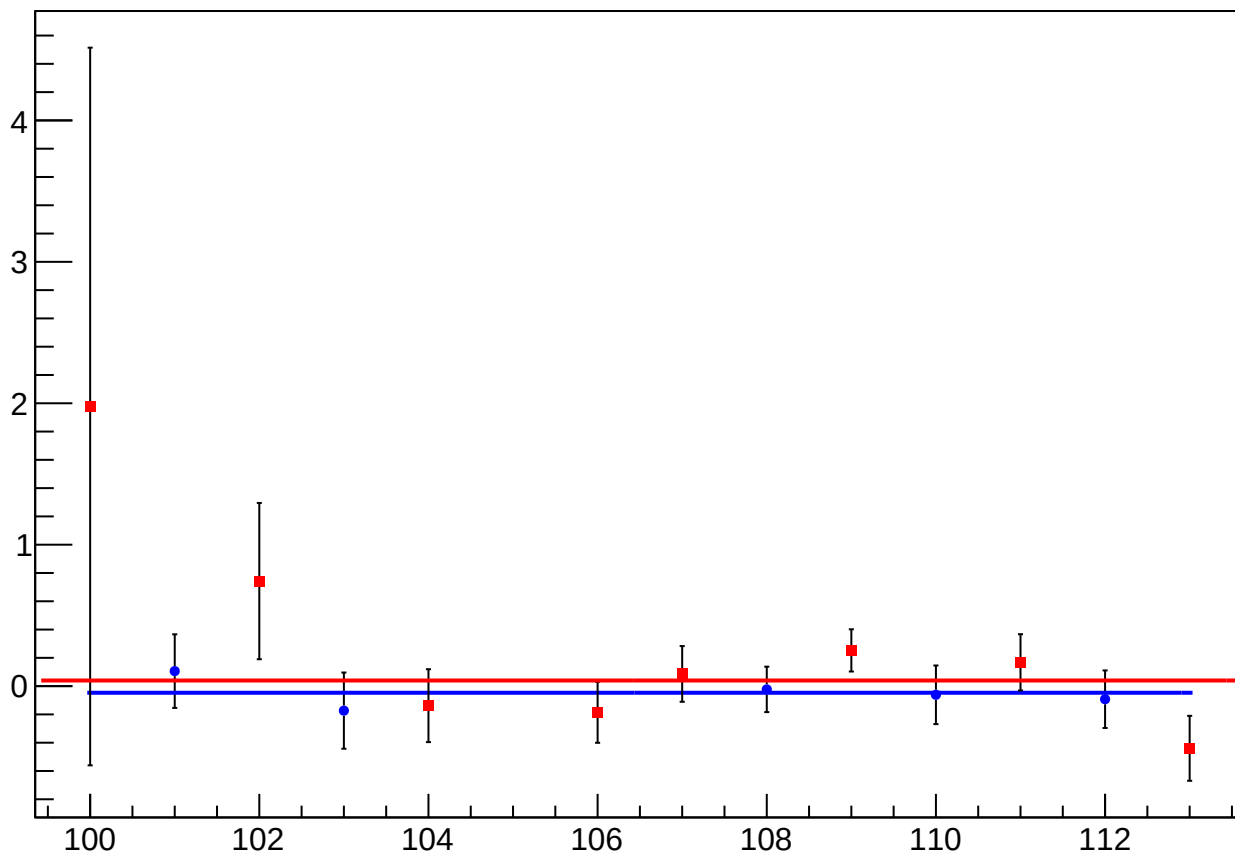
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 131.351+/-0.043  $\chi^2/\text{NDF}$ : 980213.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.047 $\pm$ 0.093  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.040 $\pm$ 0.080  $\chi^2$ /NDF: 10.6/7

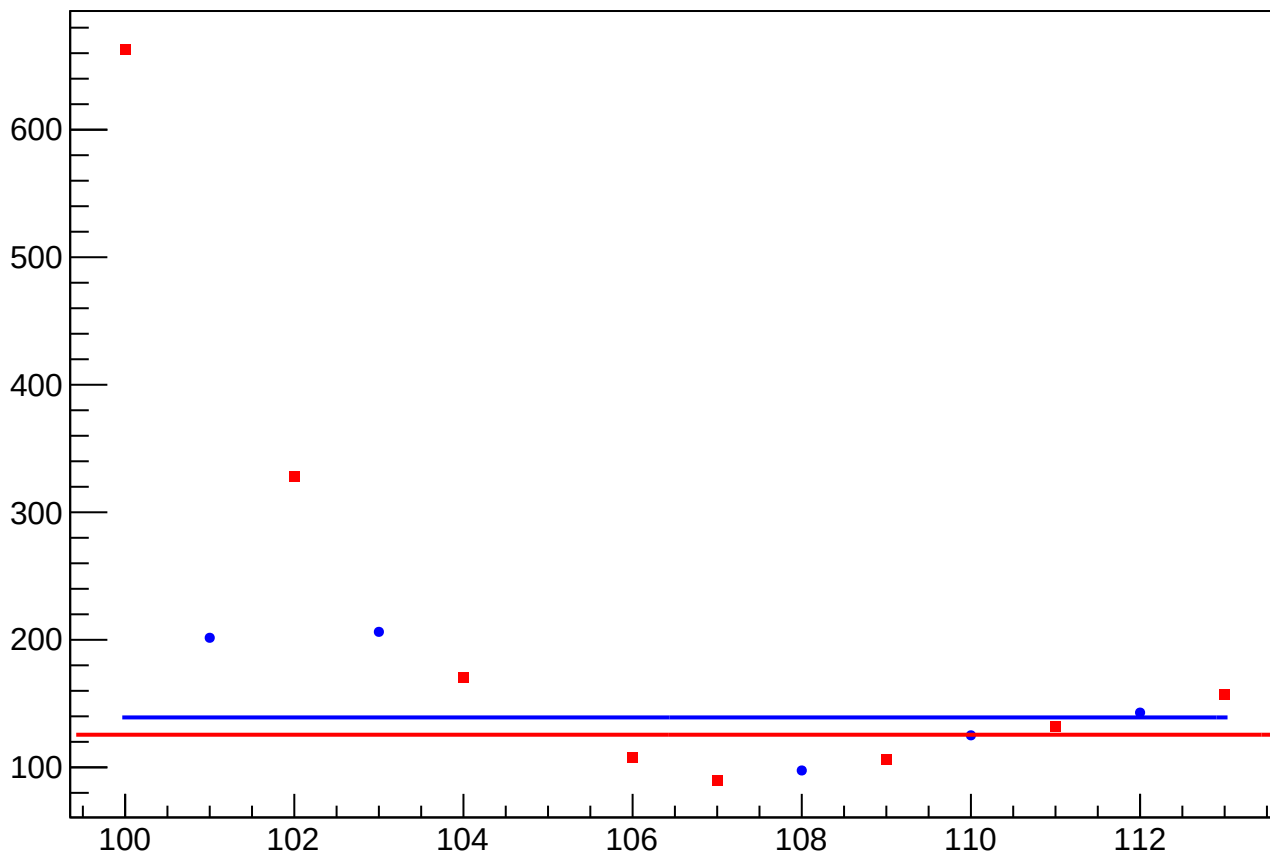
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.061  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.149+/-0.066  $\chi^2/\text{NDF}$ : 383138.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 125.576+/-0.057  $\chi^2/\text{NDF}$ : 572795.4/7

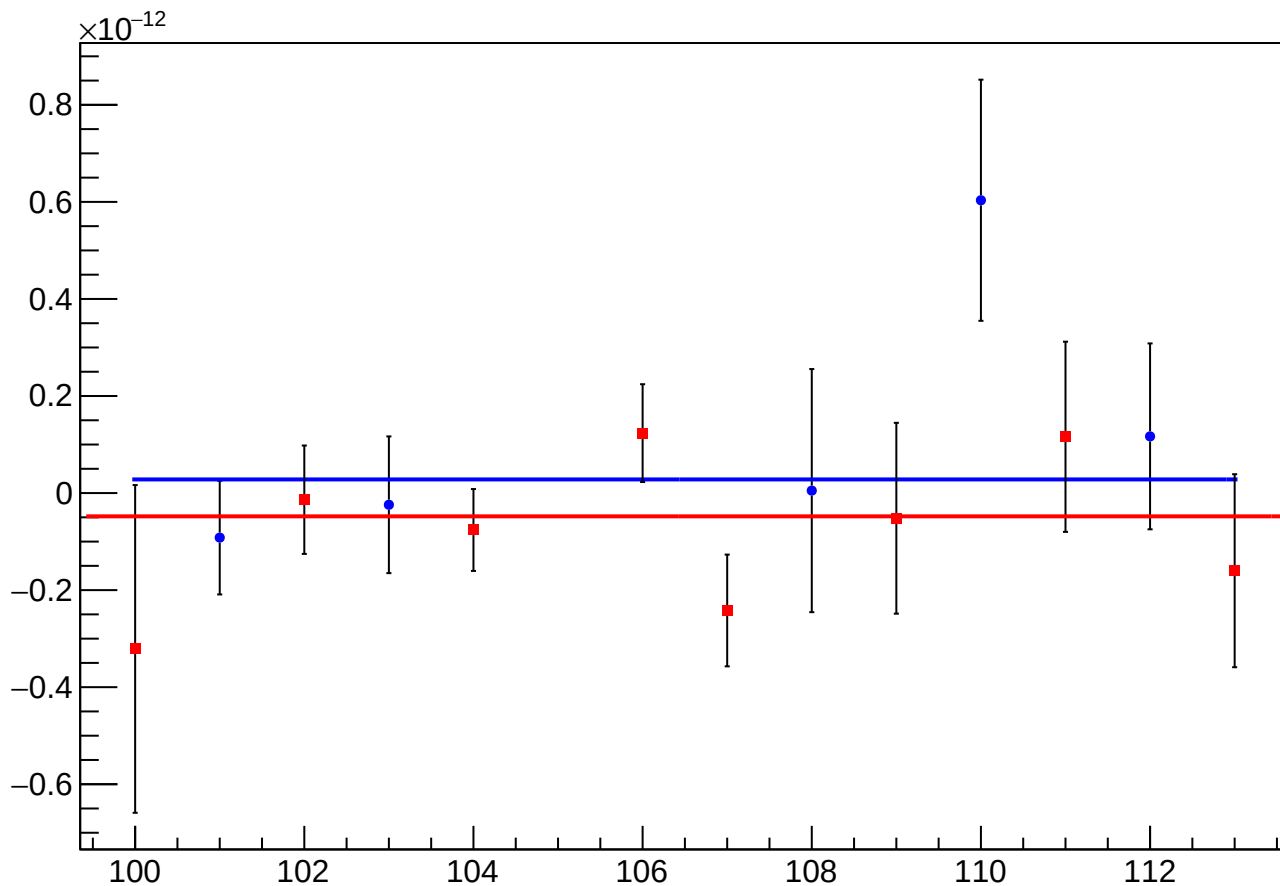
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 131.351+/-0.043  $\chi^2/\text{NDF}$ : 980213.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.6/7

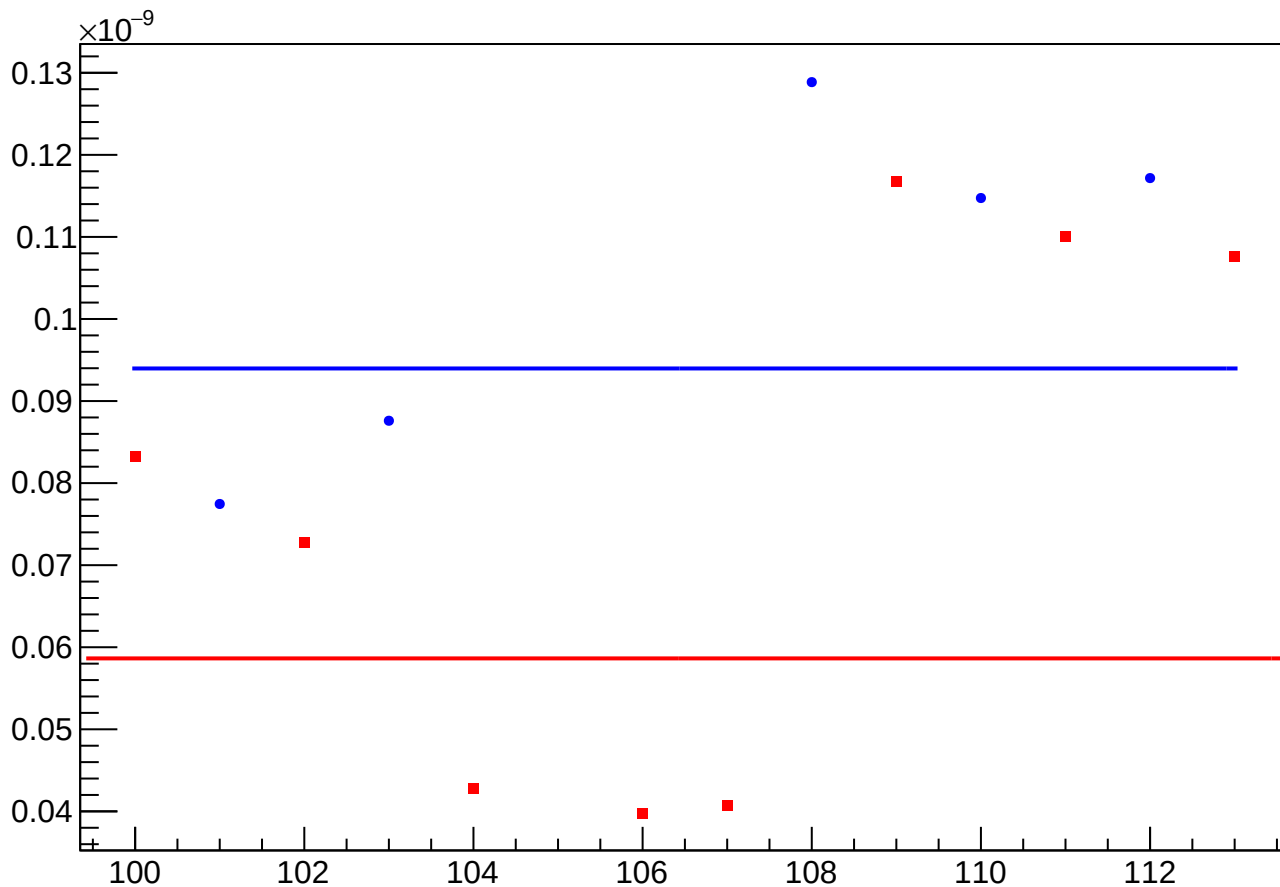
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 125965.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 665210.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

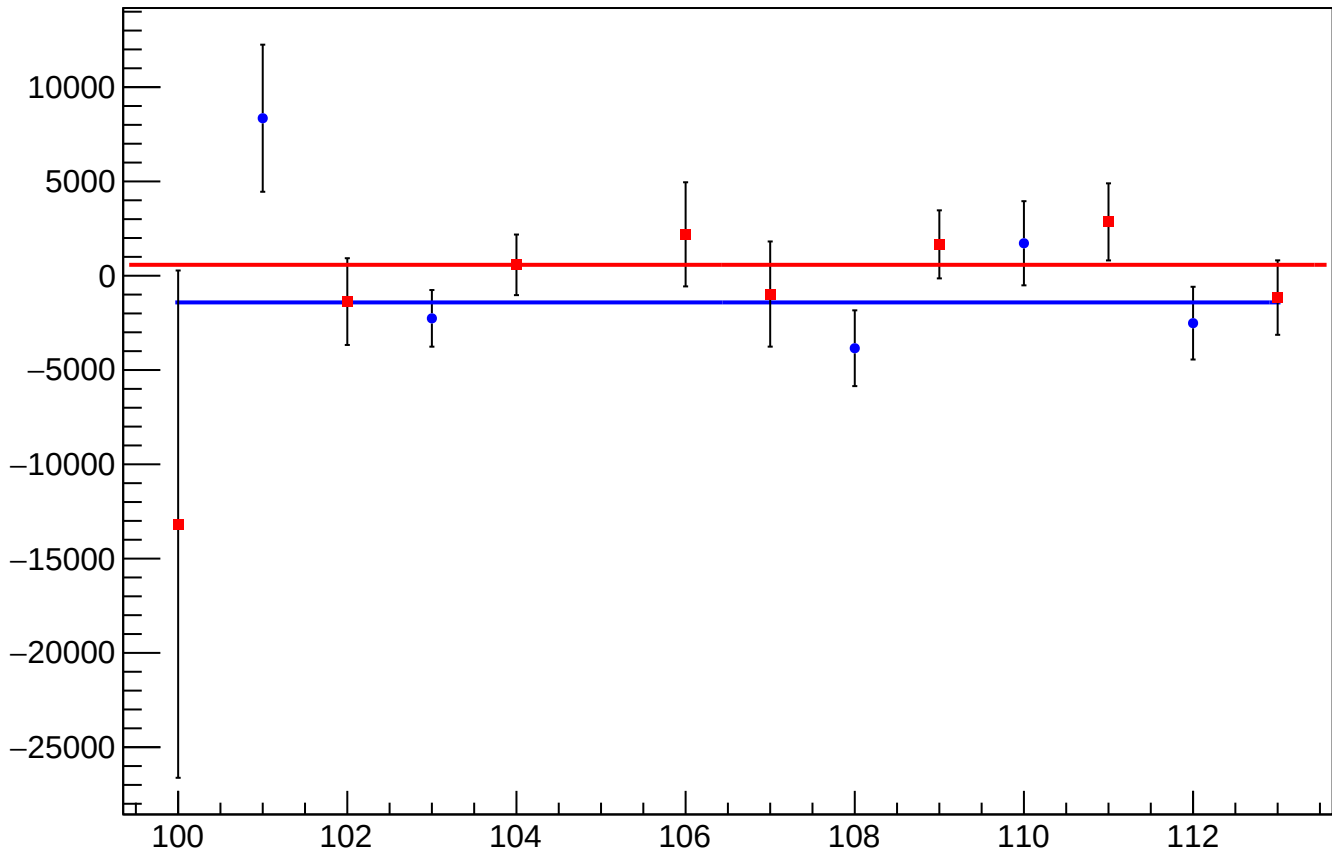
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1121626.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -1415.283+/-902.919  $\chi^2/\text{NDF}$ : 10.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 578.285+/-779.701  $\chi^2/\text{NDF}$ : 4.8/7

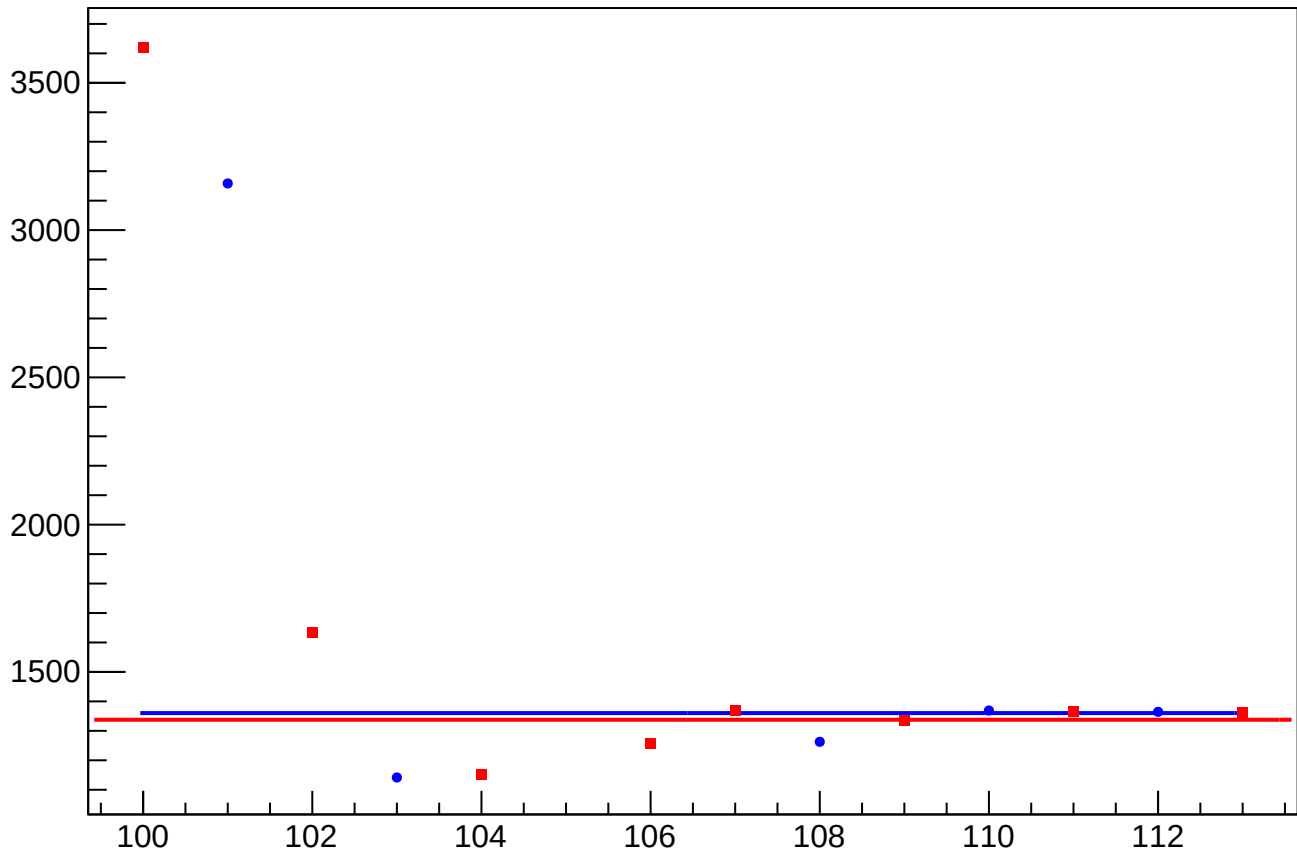
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -273.289+/-590.126  $\chi^2/\text{NDF}$ : 17.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 1360.317 $\pm$ 0.638  $\chi^2$ /NDF: 472253.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1337.665 $\pm$ 0.548  $\chi^2$ /NDF: 120806.1/7

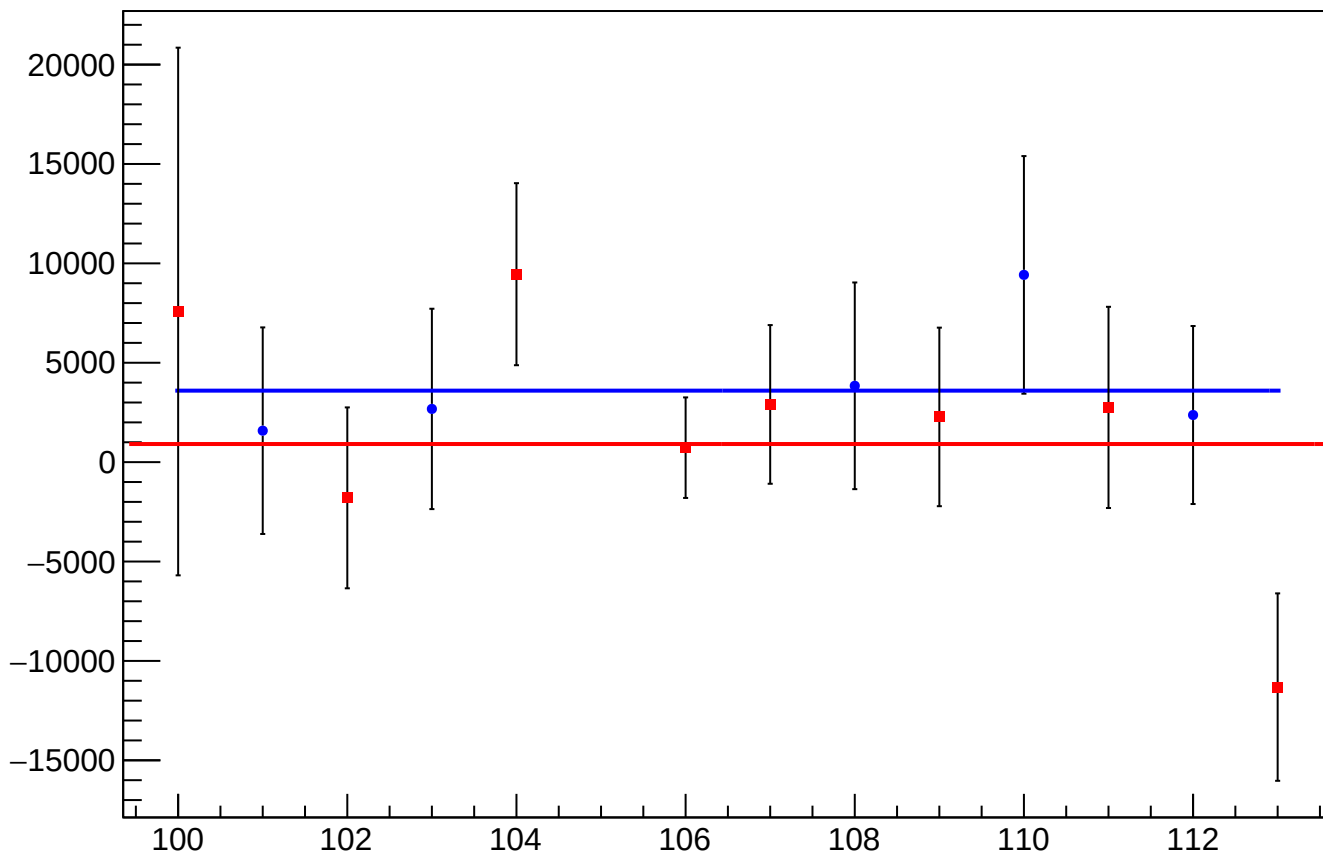
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1347.267 $\pm$ 0.416  $\chi^2$ /NDF: 593784.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_reg\_correction\_mean vs Slug



Right In: 3597.067+/-2286.429  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 911.596+/-1483.479  $\chi^2/\text{NDF}$ : 11.3/7

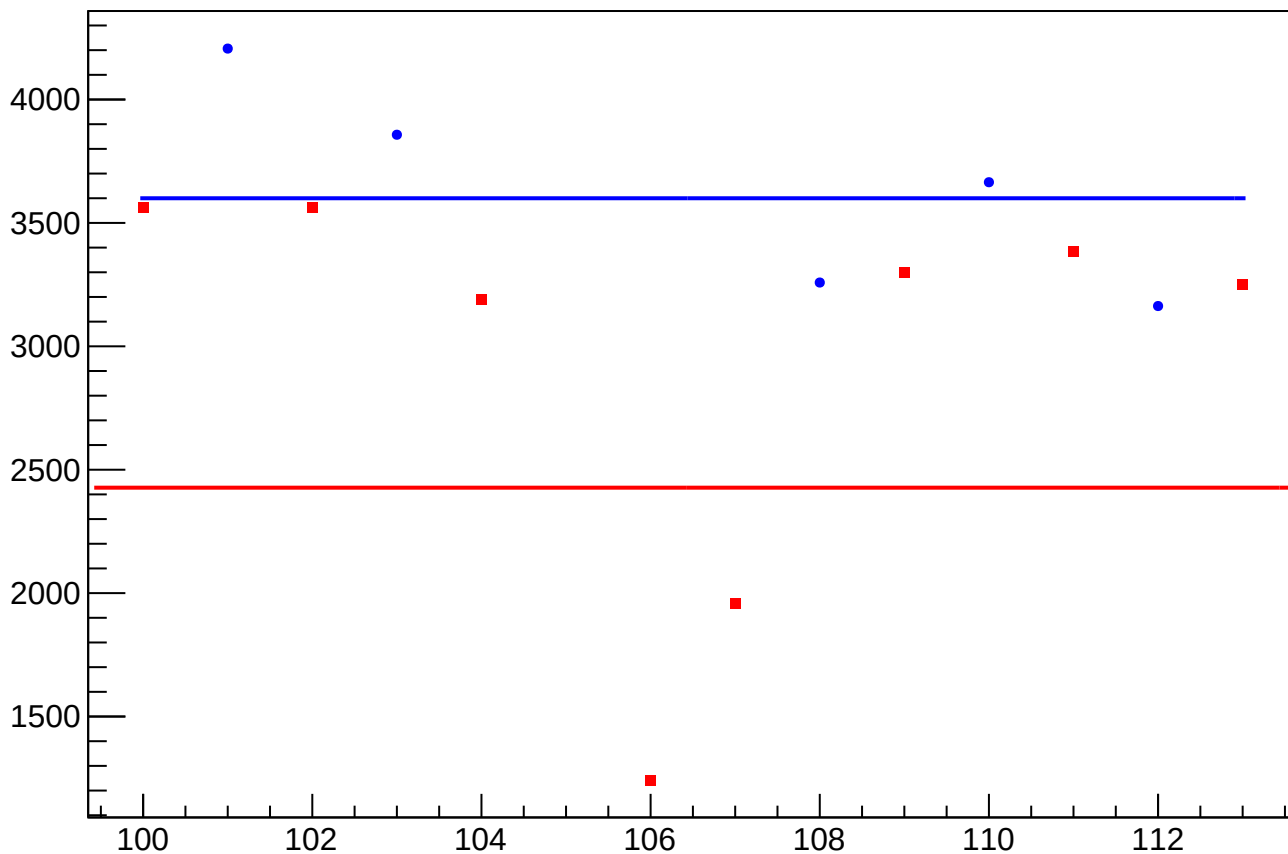
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1707.176+/-1244.484  $\chi^2/\text{NDF}$ : 13.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_reg\_correction\_rms vs Slug



Right In: 3599.934+/-1.617  $\chi^2/\text{NDF}$ : 60351.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2427.268+/-1.049  $\chi^2/\text{NDF}$ : 869254.5/7

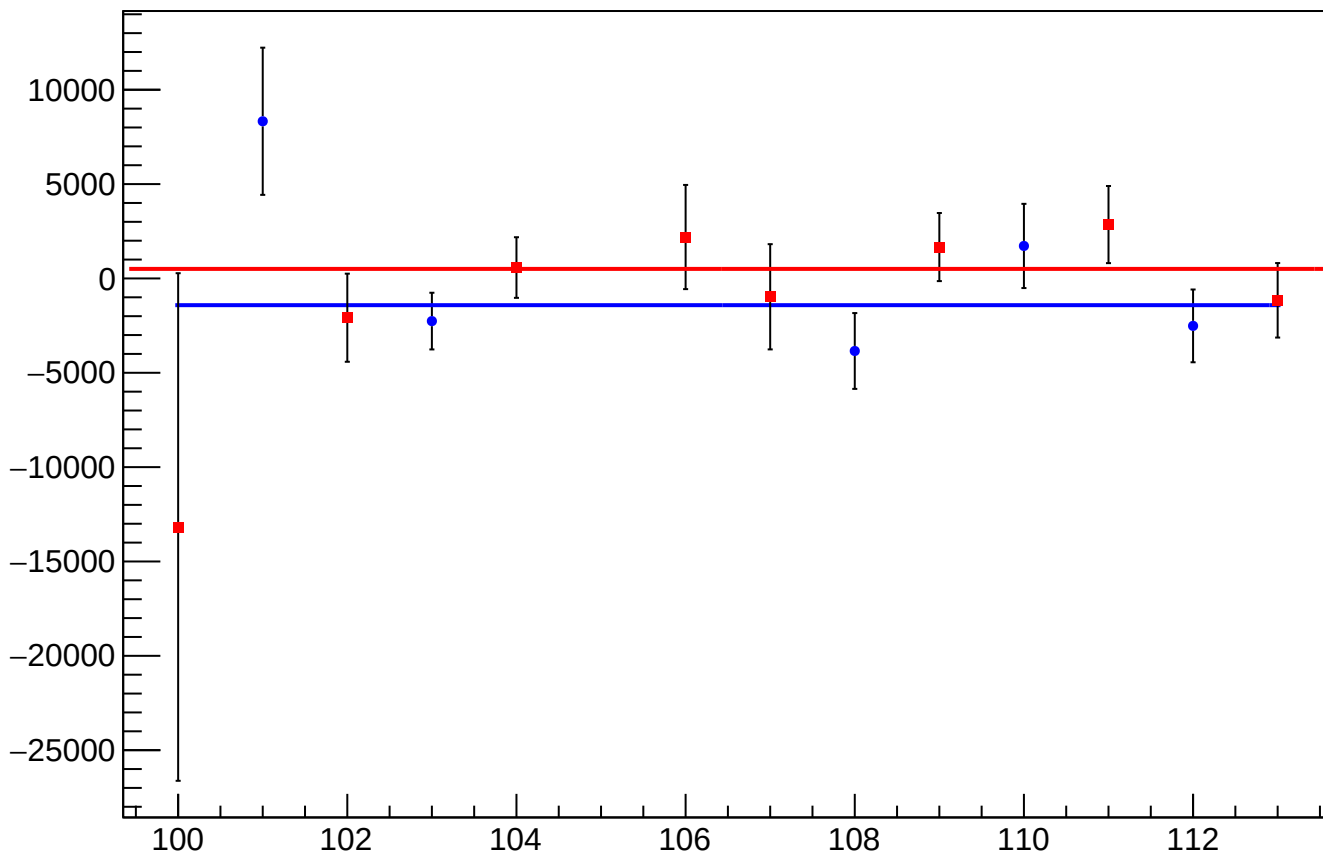
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2774.675+/-0.880  $\chi^2/\text{NDF}$ : 1299842.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In:  $-1416.367 \pm 902.919$   $\chi^2/\text{NDF}$ : 10.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $505.605 \pm 781.025$   $\chi^2/\text{NDF}$ : 5.4/7

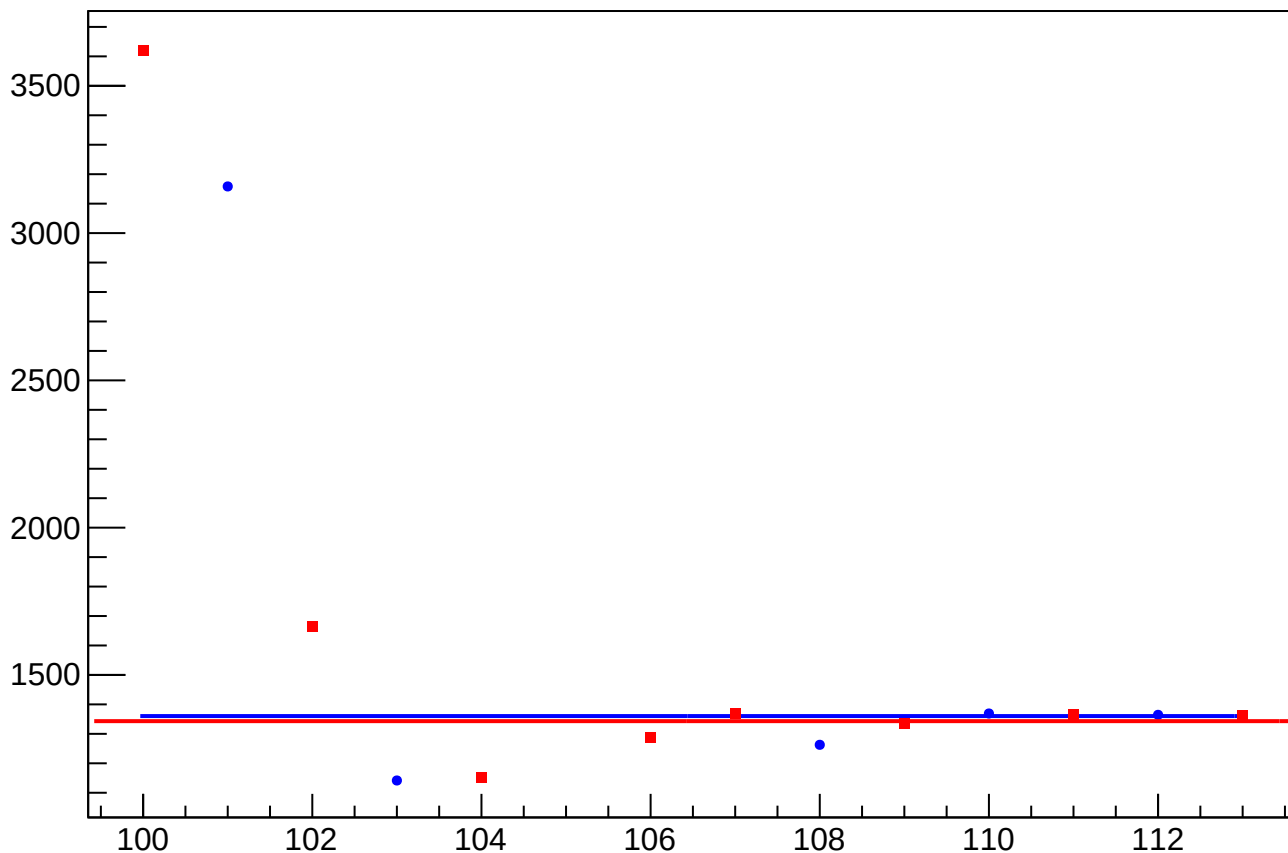
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-316.983 \pm 590.699$   $\chi^2/\text{NDF}$ : 18.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 1360.316+/-0.638  $\chi^2/\text{NDF}$ : 472255.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1343.114+/-0.550  $\chi^2/\text{NDF}$ : 125904.6/7

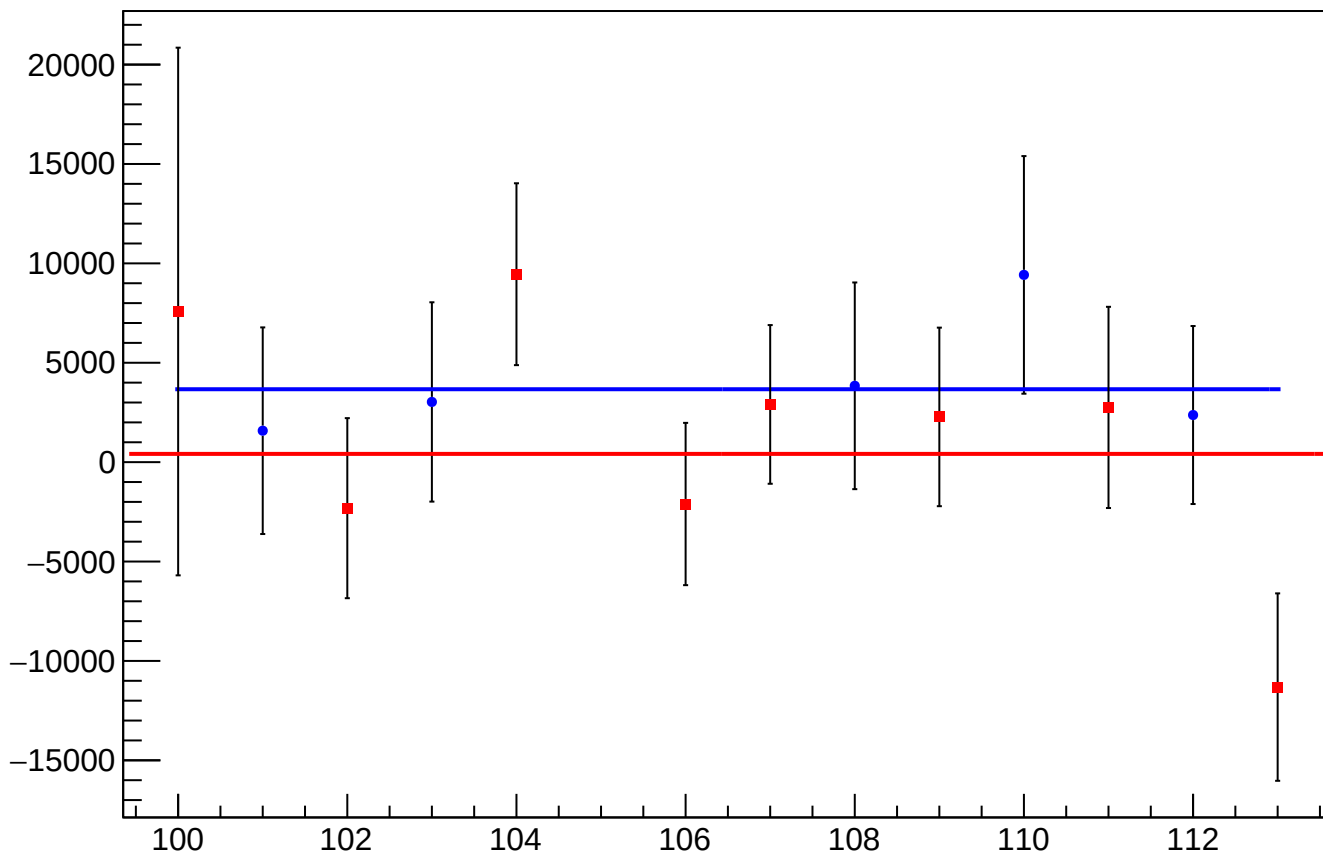
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1350.437+/-0.417  $\chi^2/\text{NDF}$ : 598576.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_cor\_correction\_mean vs Slug



Right In: 3668.066 $\pm$ 2284.100  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 415.290 $\pm$ 1669.939  $\chi^2$ /NDF: 11.9/7

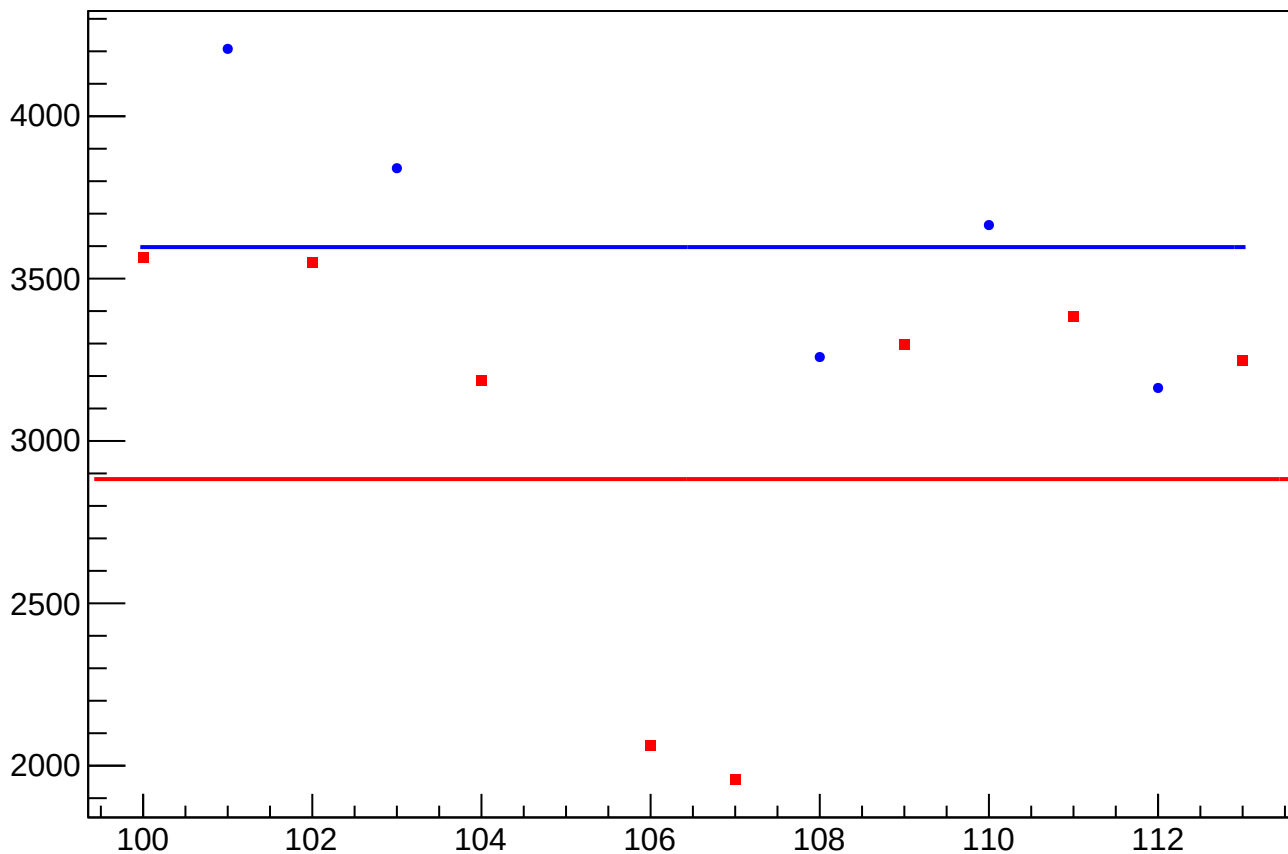
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1548.343 $\pm$ 1348.072  $\chi^2$ /NDF: 14.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_cor\_correction\_rms vs Slug



Right In: 3597.041+/-1.615  $\chi^2/\text{NDF}$ : 59803.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2882.604+/-1.181  $\chi^2/\text{NDF}$ : 294878.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

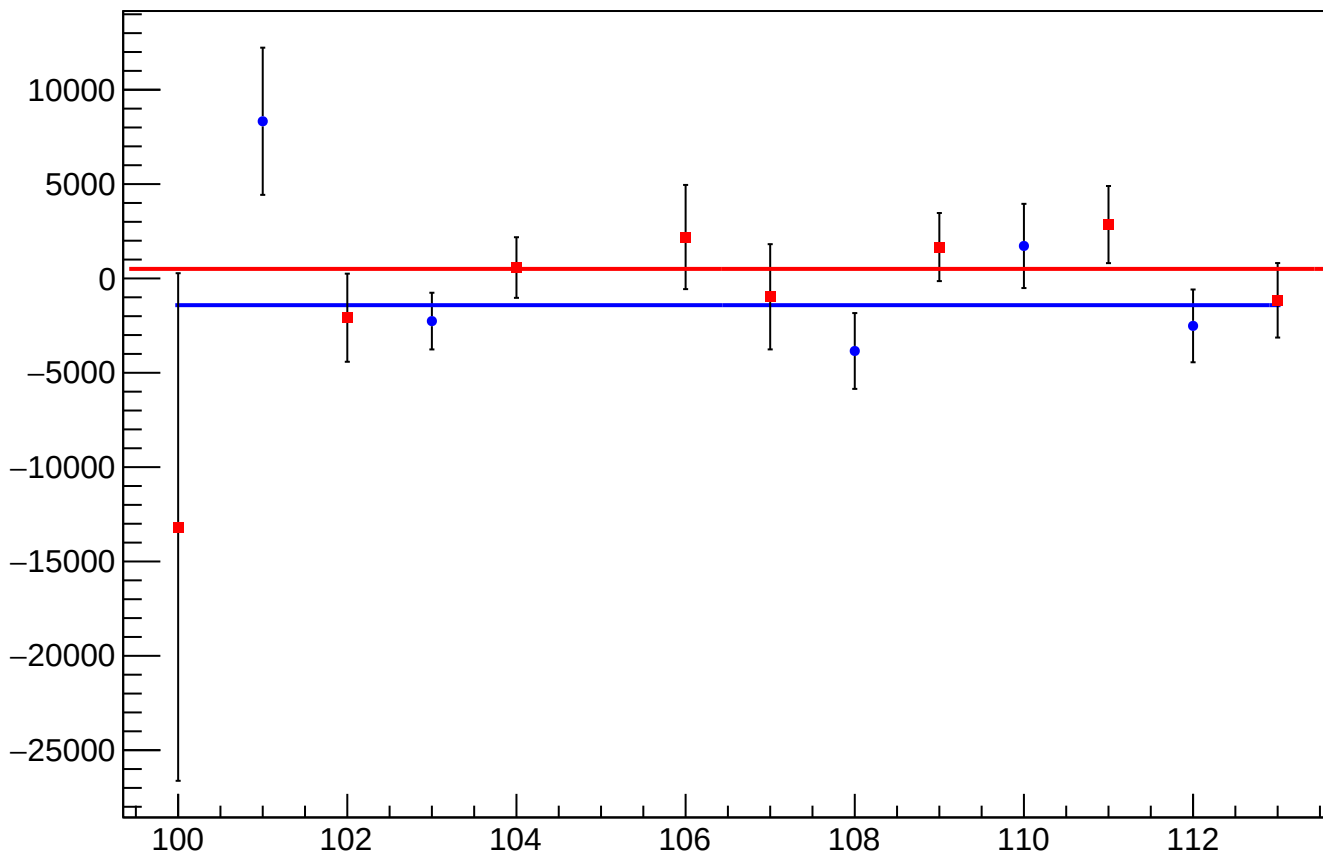
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3131.467+/-0.953  $\chi^2/\text{NDF}$ : 482194.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -1416.367 $\pm$ 902.919  $\chi^2$ /NDF: 10.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 505.605 $\pm$ 781.025  $\chi^2$ /NDF: 5.4/7

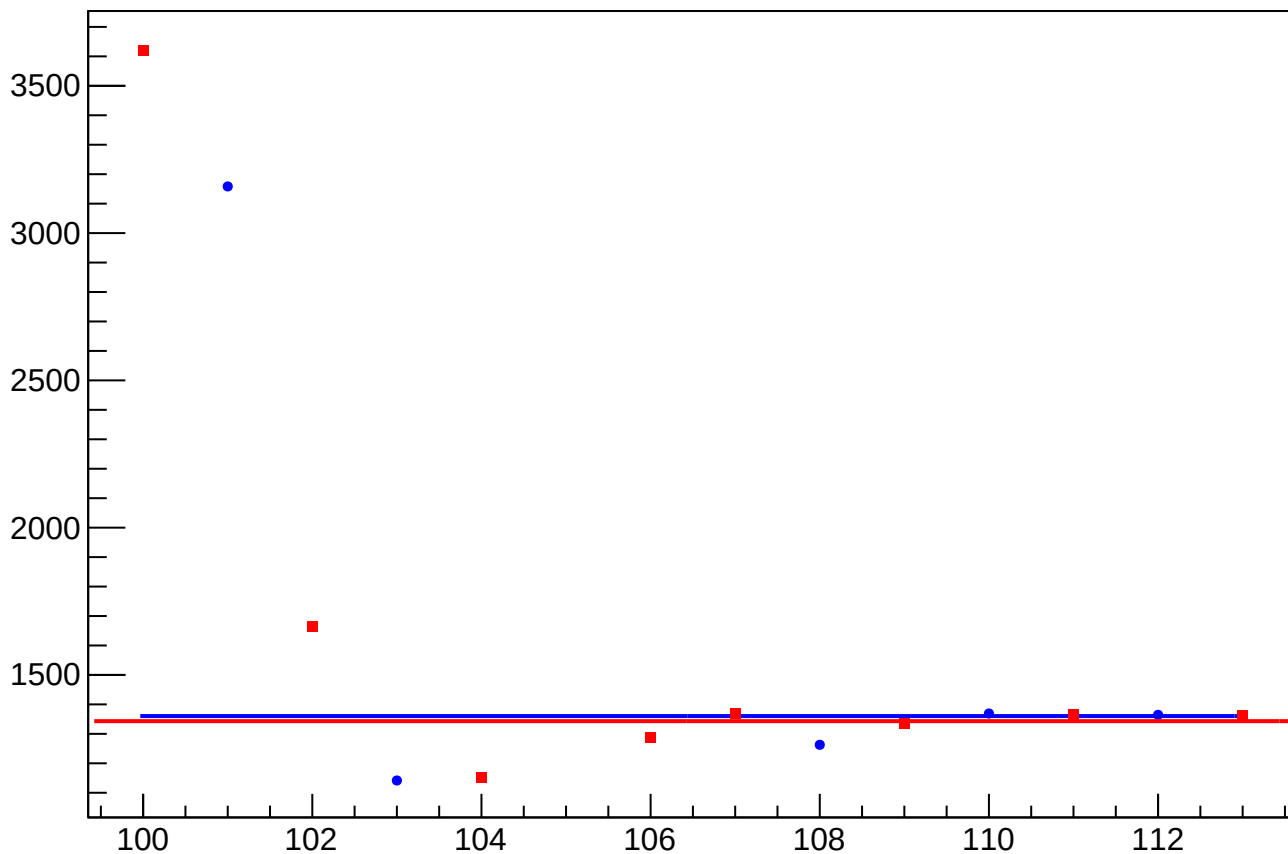
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -316.983 $\pm$ 590.699  $\chi^2$ /NDF: 18.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 1360.316+/-0.638  $\chi^2/\text{NDF}$ : 472255.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1343.114+/-0.550  $\chi^2/\text{NDF}$ : 125904.6/7

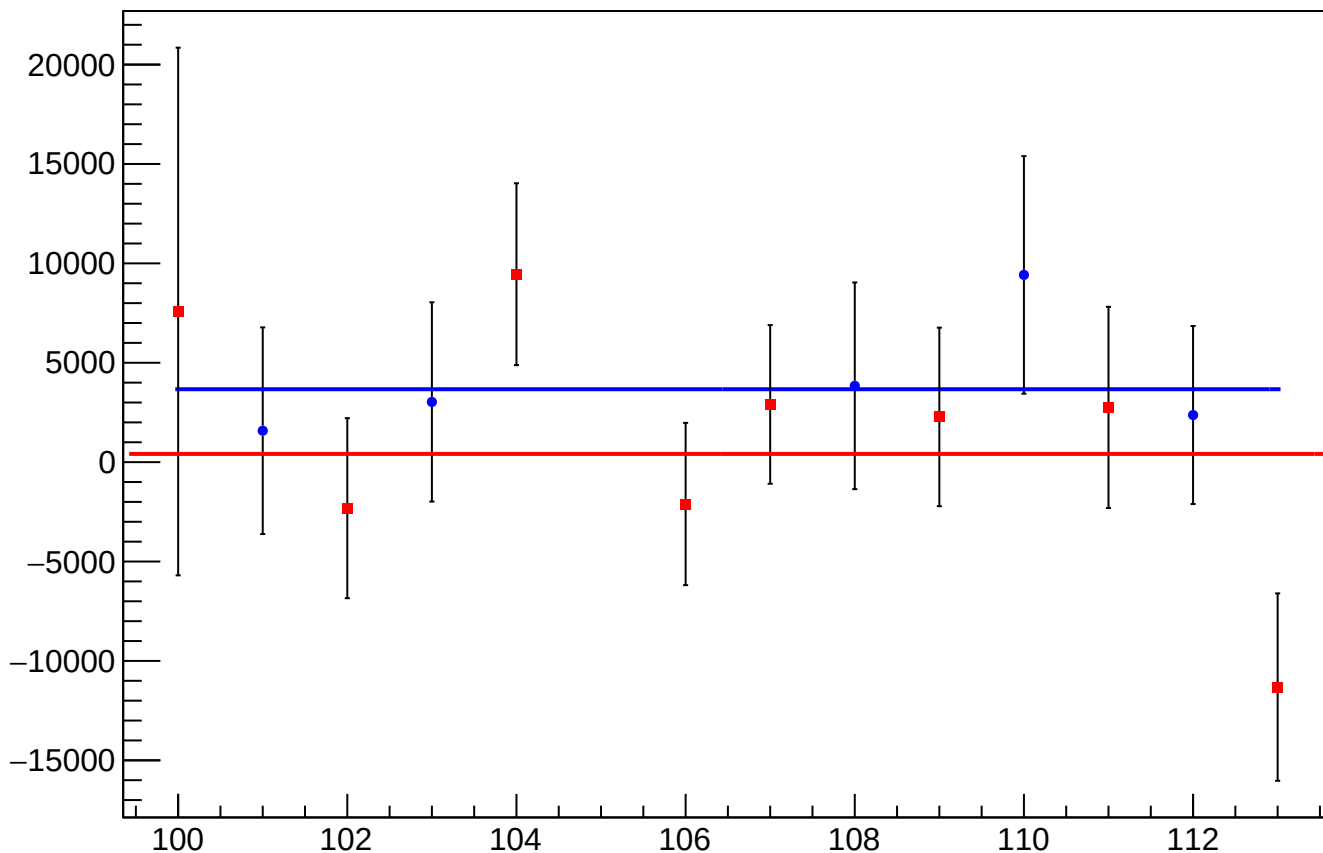
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1350.437+/-0.417  $\chi^2/\text{NDF}$ : 598576.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 3668.066 $\pm$ 2284.100  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 415.290 $\pm$ 1669.939  $\chi^2$ /NDF: 11.9/7

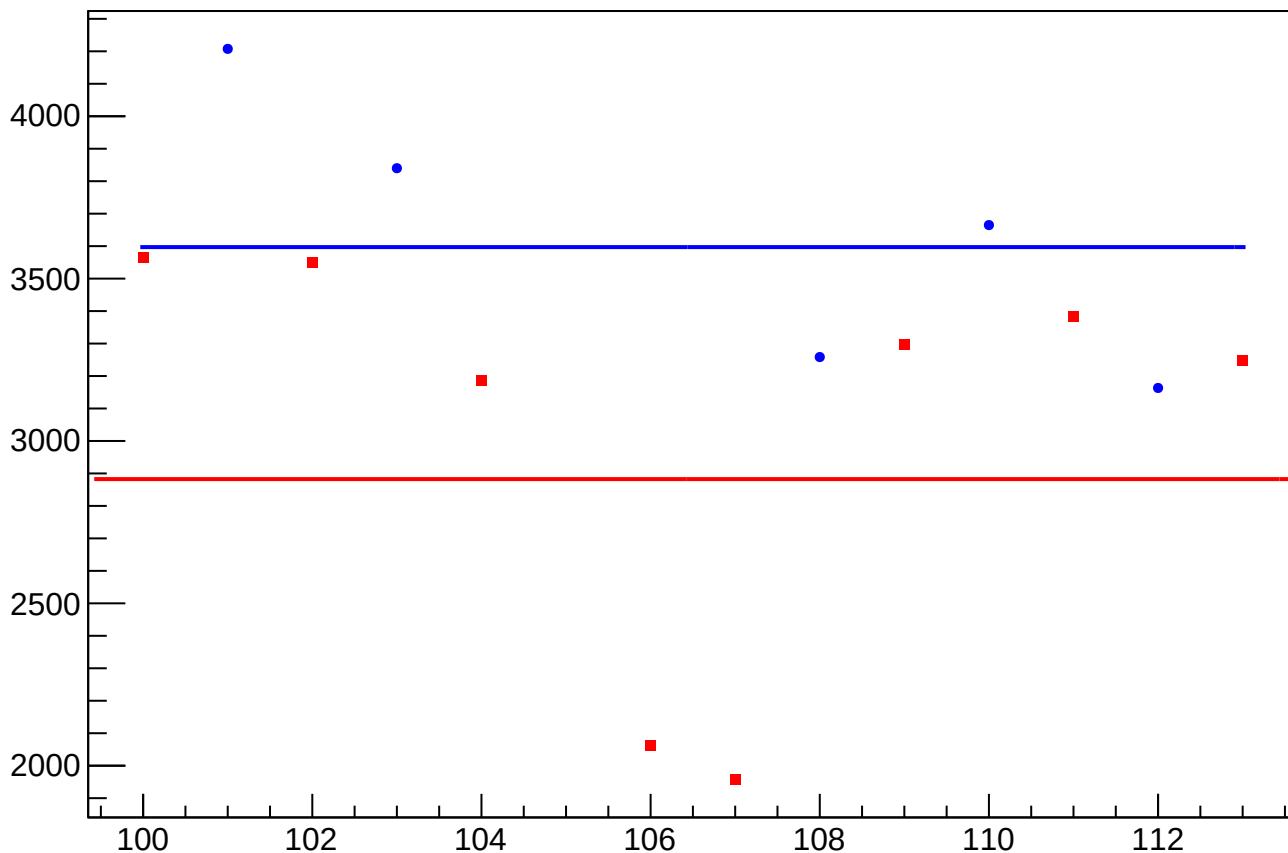
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1548.343 $\pm$ 1348.072  $\chi^2$ /NDF: 14.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3597.041 $\pm$ 1.615  $\chi^2$ /NDF: 59803.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2882.604 $\pm$ 1.181  $\chi^2$ /NDF: 294878.4/7

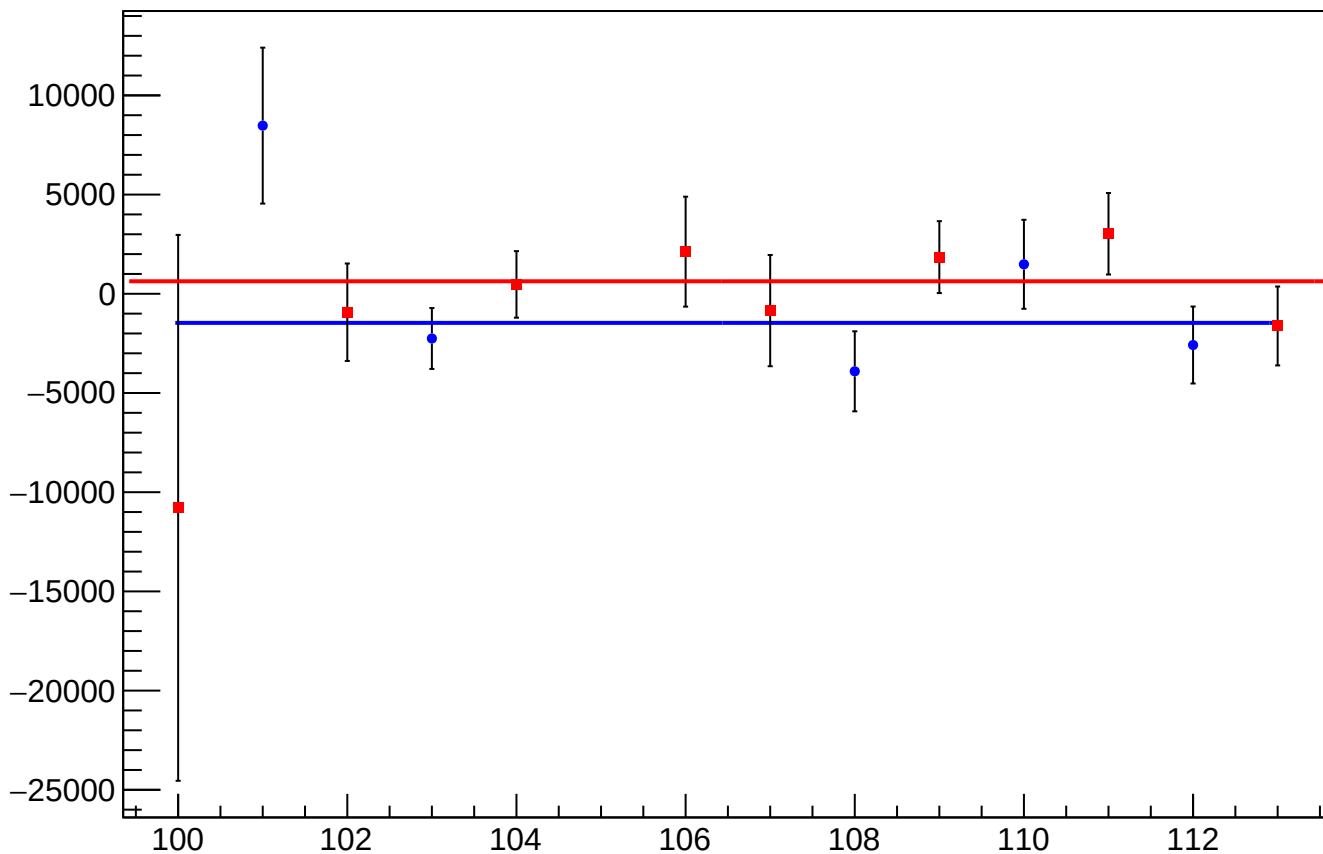
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3131.467 $\pm$ 0.953  $\chi^2$ /NDF: 482194.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -1466.101+/-912.879  $\chi^2/\text{NDF}$ : 10.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 630.333+/-795.893  $\chi^2/\text{NDF}$ : 4.8/7

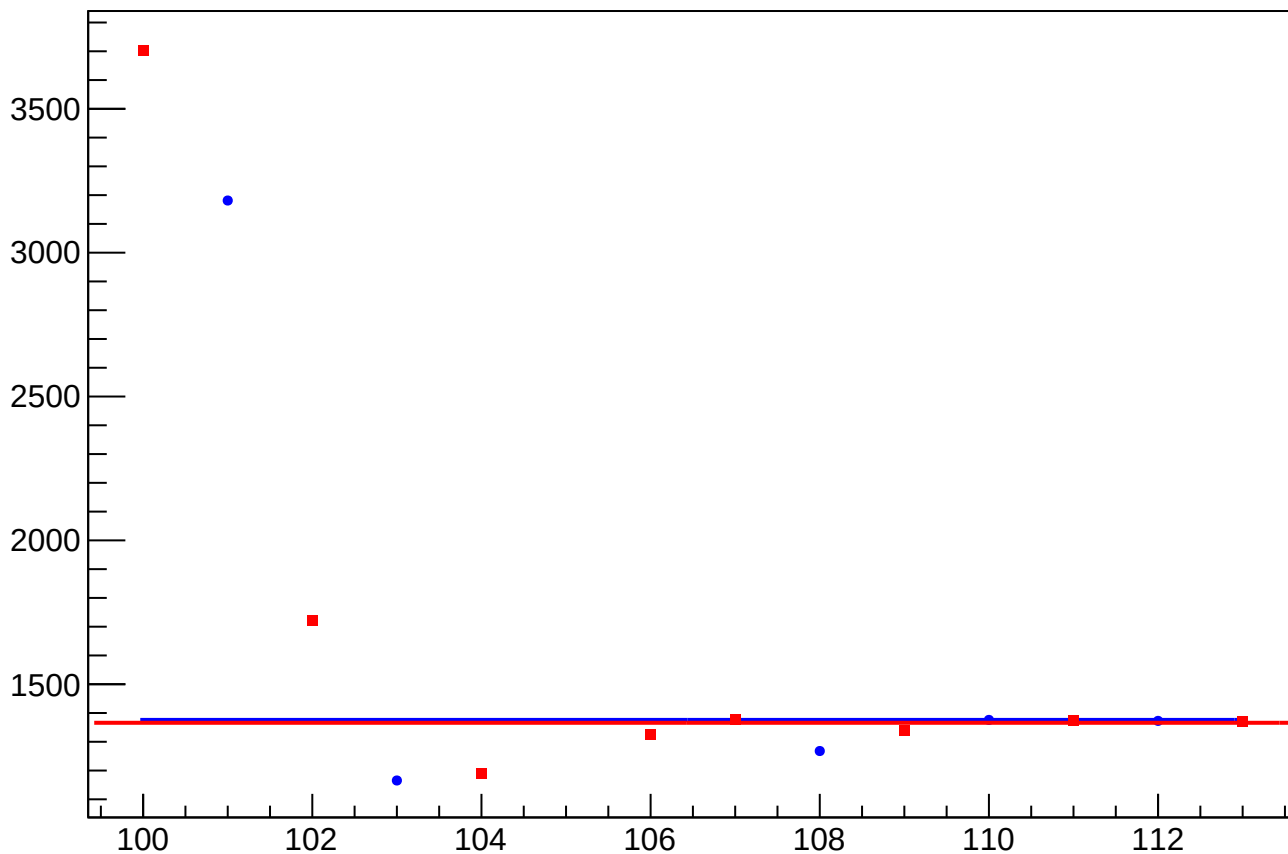
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -275.028+/-599.906  $\chi^2/\text{NDF}$ : 18.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 1375.999+/-0.646  $\chi^2/\text{NDF}$ : 465624.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1365.991+/-0.562  $\chi^2/\text{NDF}$ : 122488.1/7

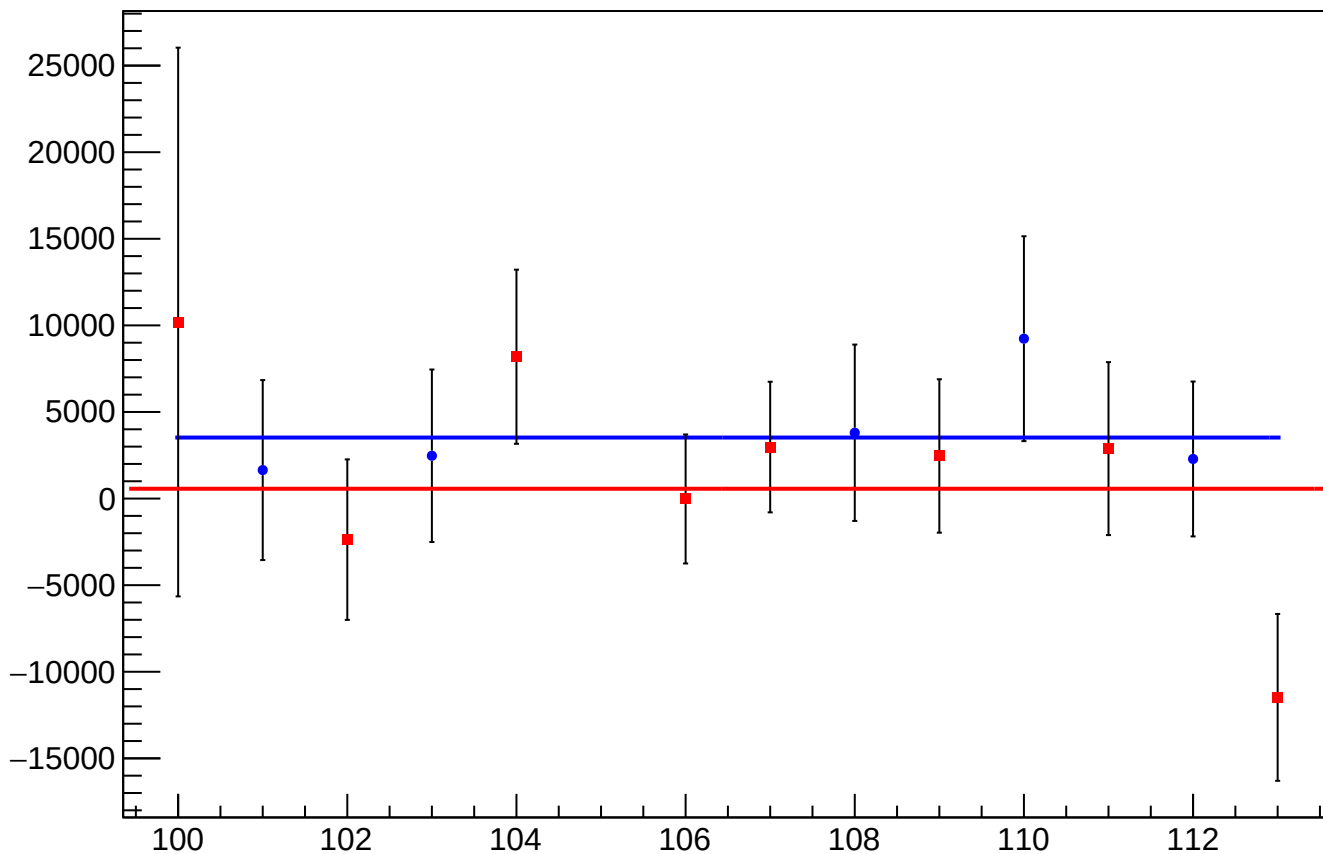
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1370.303+/-0.424  $\chi^2/\text{NDF}$ : 588249.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_correction\_mean vs Slug



Right In: 3523.630 $\pm$ 2267.241  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 567.301 $\pm$ 1651.209  $\chi^2$ /NDF: 10.2/7

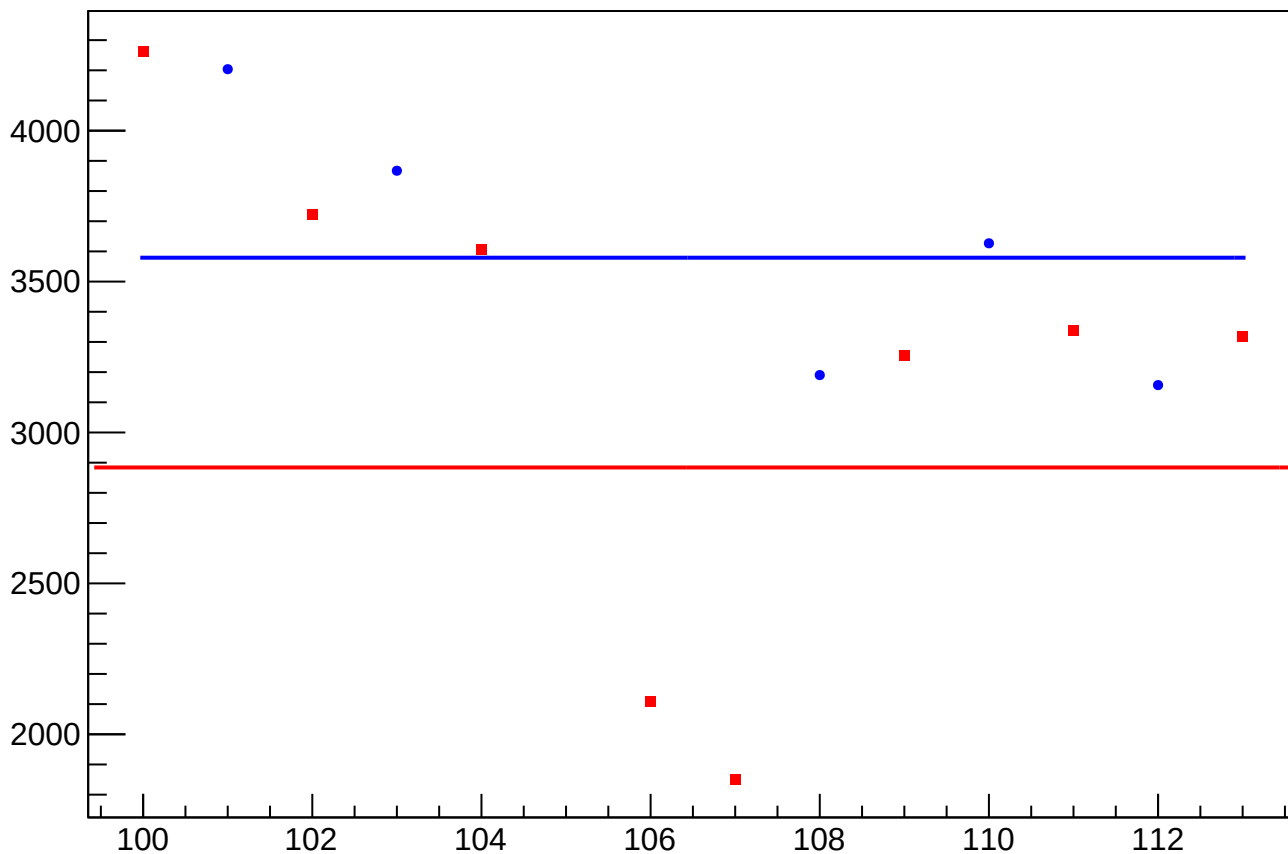
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1591.901 $\pm$ 1334.746  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_correction\_rms vs Slug



Right In: 3579.136+/-1.603  $\chi^2/\text{NDF}$ : 65221.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2884.066+/-1.168  $\chi^2/\text{NDF}$ : 406307.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

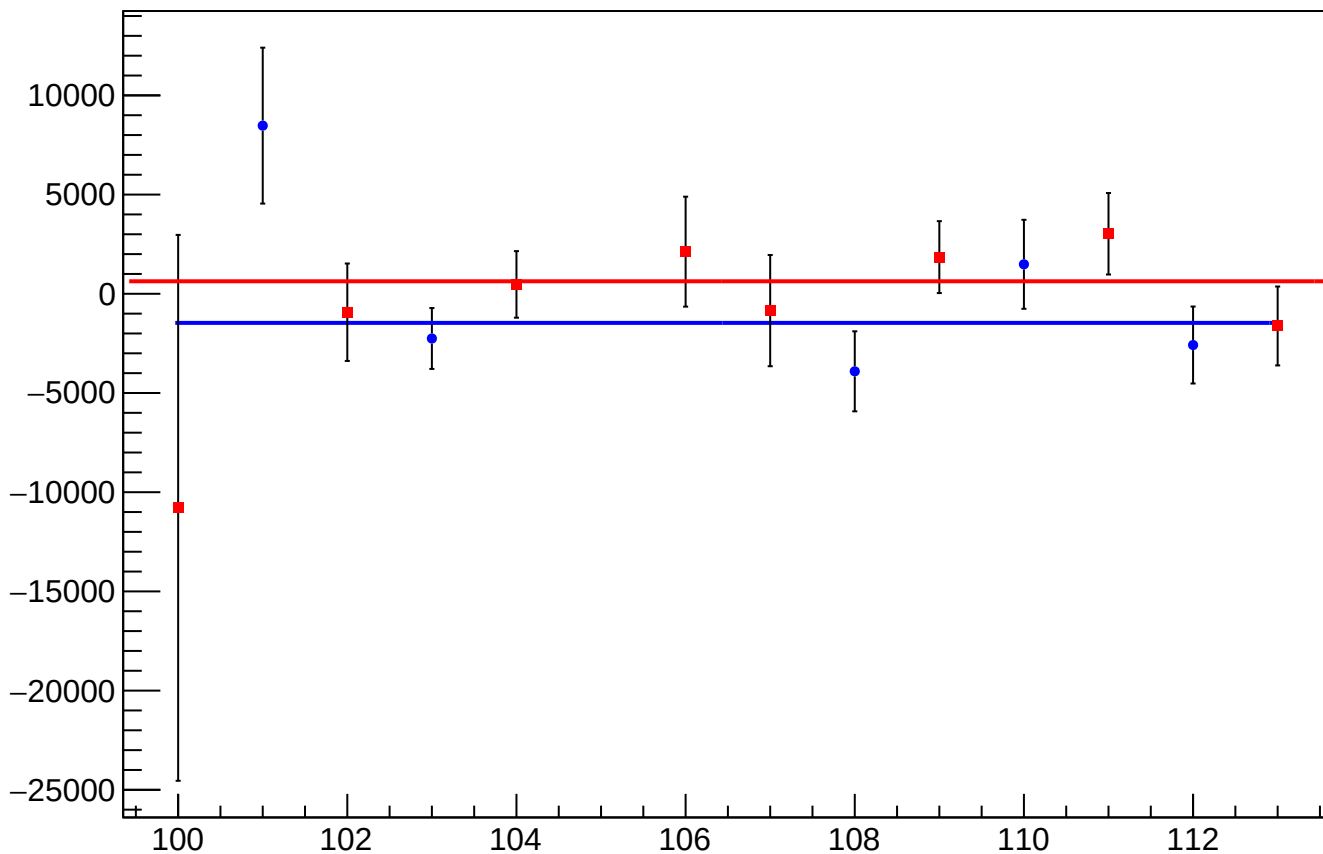
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3124.963+/-0.944  $\chi^2/\text{NDF}$ : 594353.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -1466.108 $\pm$ 912.879  $\chi^2$ /NDF: 10.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 630.343 $\pm$ 795.893  $\chi^2$ /NDF: 4.8/7

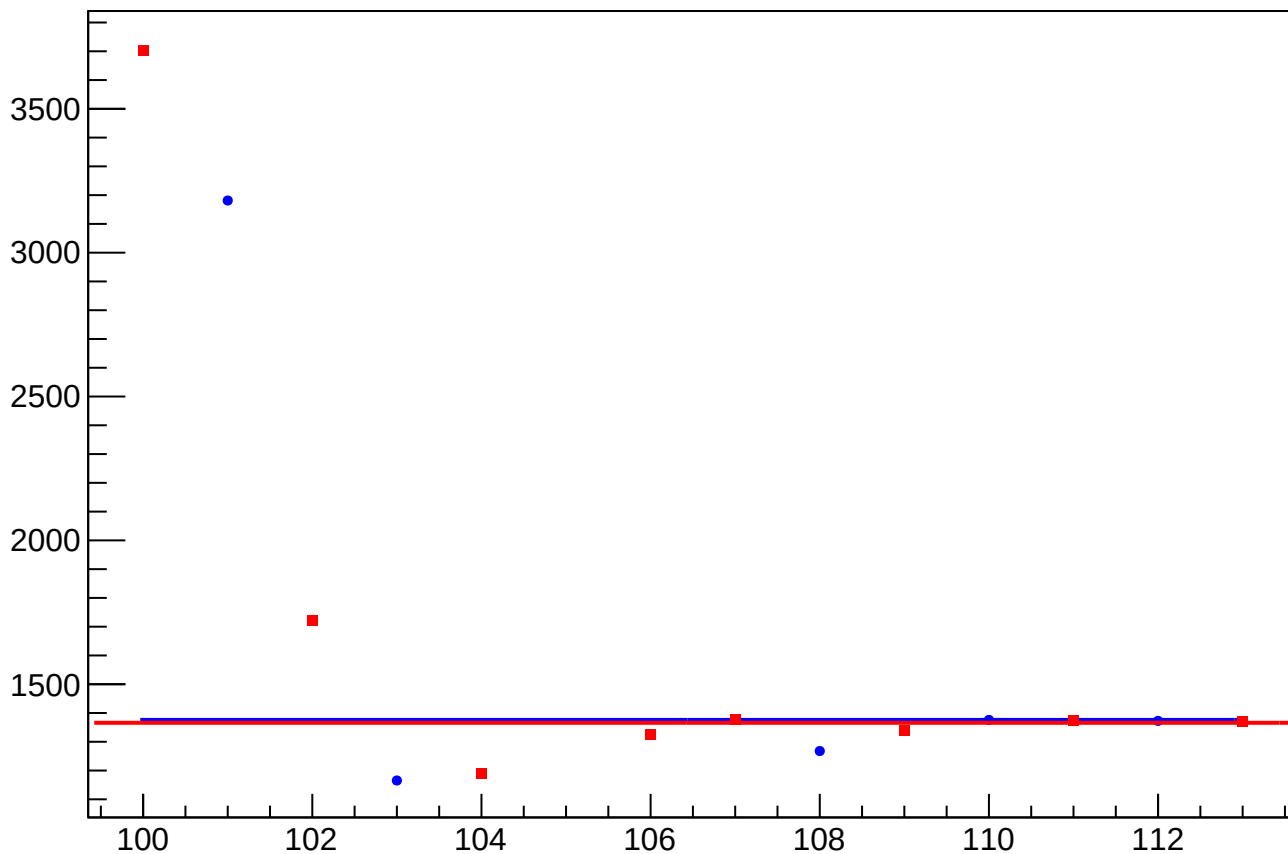
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -275.025 $\pm$ 599.906  $\chi^2$ /NDF: 18.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 1375.999+/-0.646  $\chi^2/\text{NDF}$ : 465624.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1365.991+/-0.562  $\chi^2/\text{NDF}$ : 122488.1/7

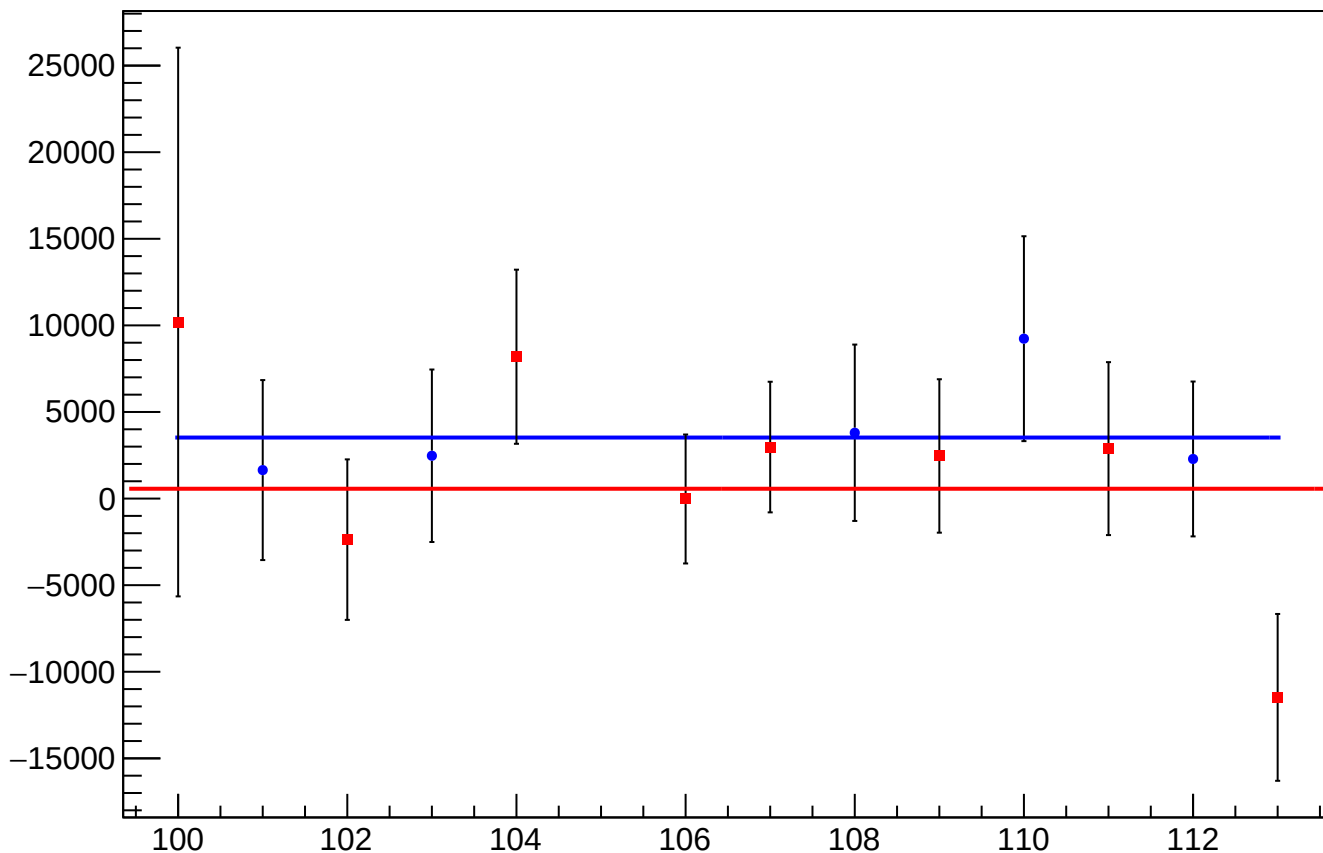
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1370.303+/-0.424  $\chi^2/\text{NDF}$ : 588249.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 3523.628 $\pm$ 2267.238  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 567.306 $\pm$ 1651.206  $\chi^2$ /NDF: 10.2/7

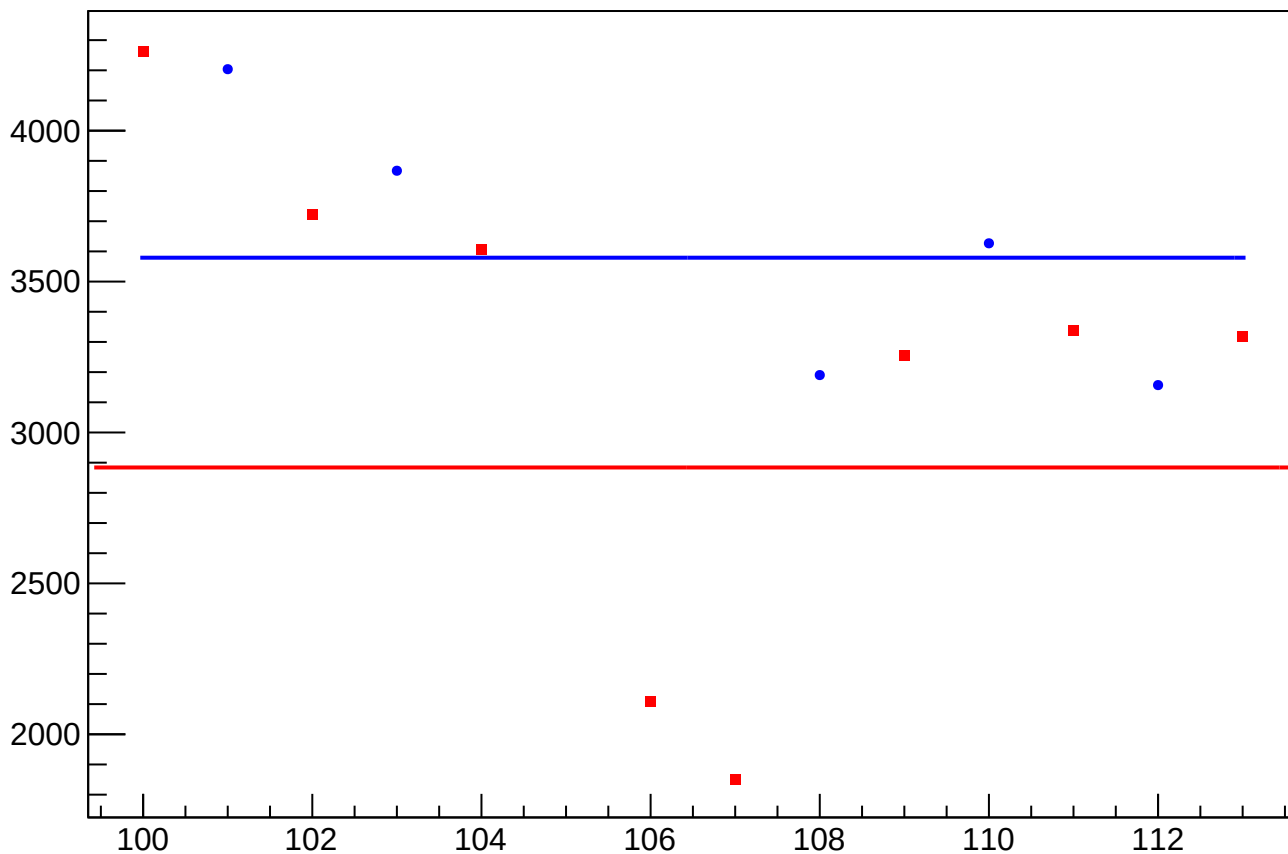
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1591.903 $\pm$ 1334.744  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 3579.131+/-1.603  $\chi^2/\text{NDF}$ : 65222.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2884.060+/-1.168  $\chi^2/\text{NDF}$ : 406310.4/7

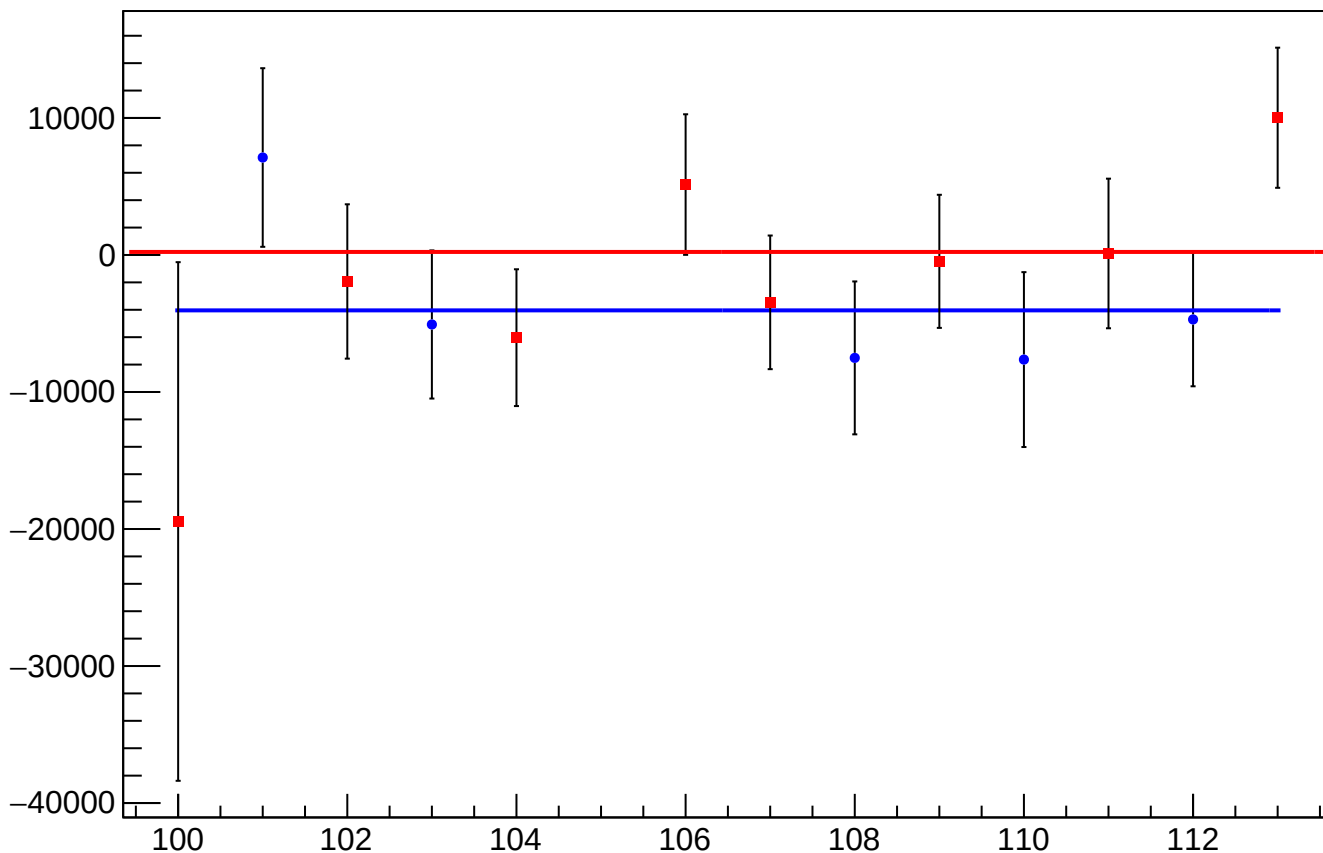
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3124.957+/-0.944  $\chi^2/\text{NDF}$ : 594357.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -4042.931 $\pm$ 2528.329  $\chi^2$ /NDF: 3.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 221.731 $\pm$ 1929.250  $\chi^2$ /NDF: 8.0/7

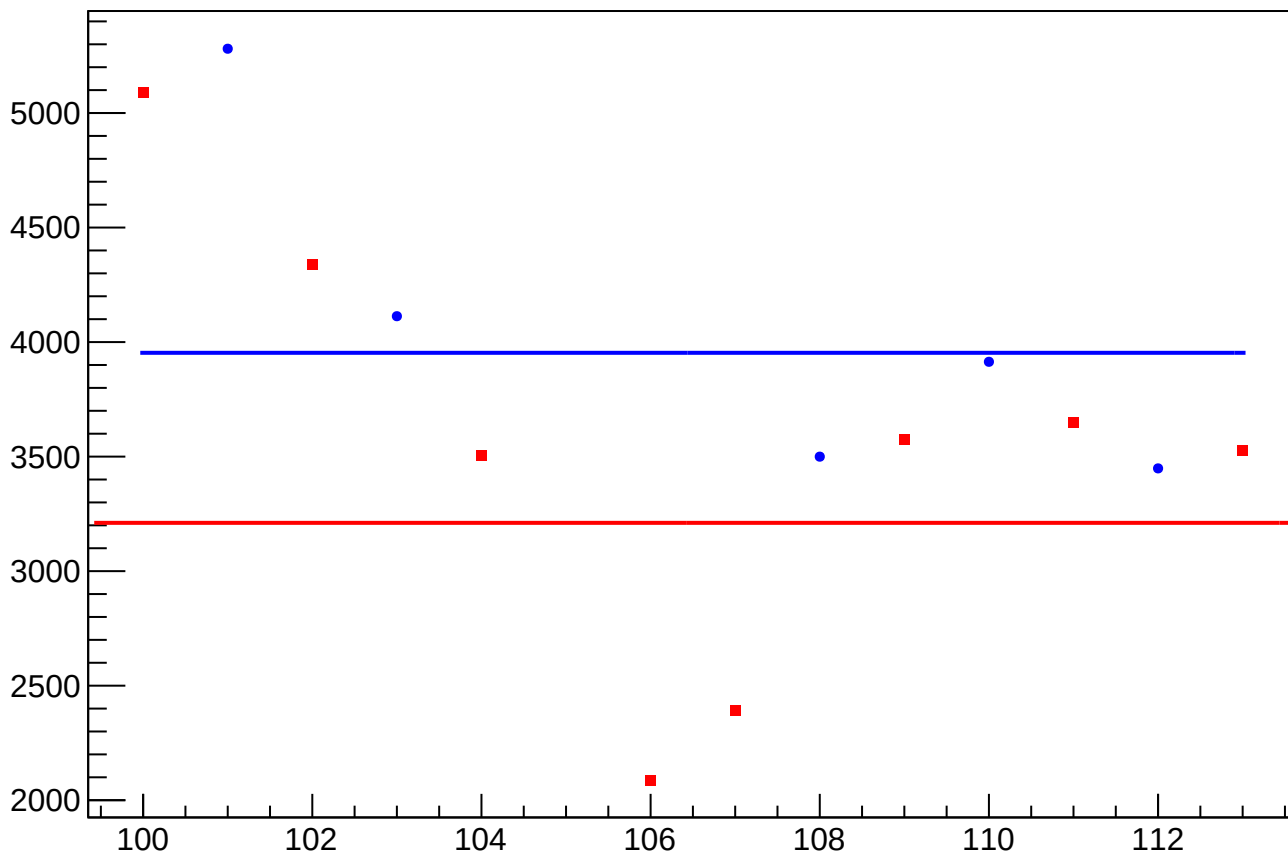
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1347.617 $\pm$ 1533.737  $\chi^2$ /NDF: 13.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 3953.175+/-1.788  $\chi^2/\text{NDF}$ : 119376.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3210.851+/-1.326  $\chi^2/\text{NDF}$ : 329634.4/7

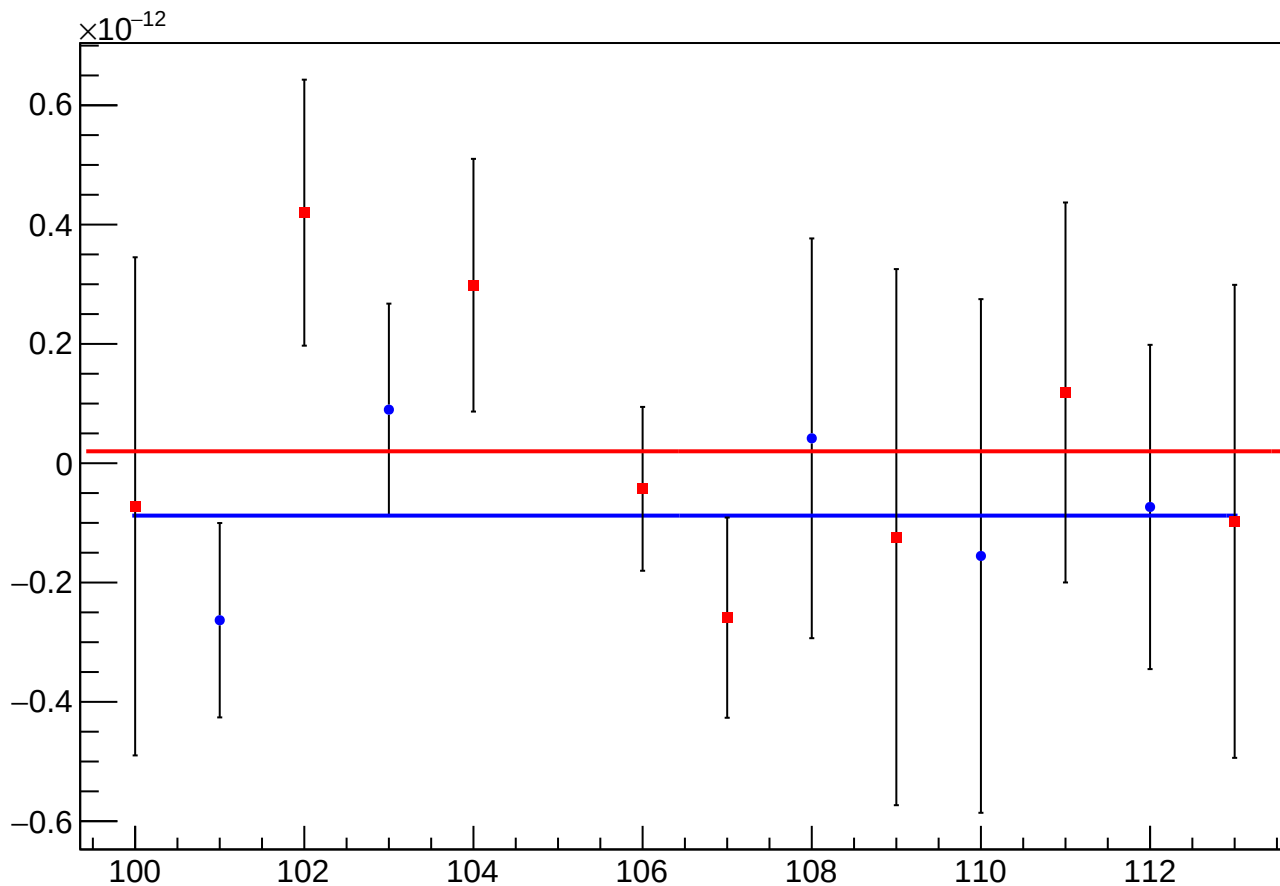
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3474.362+/-1.065  $\chi^2/\text{NDF}$ : 560221.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.3/7

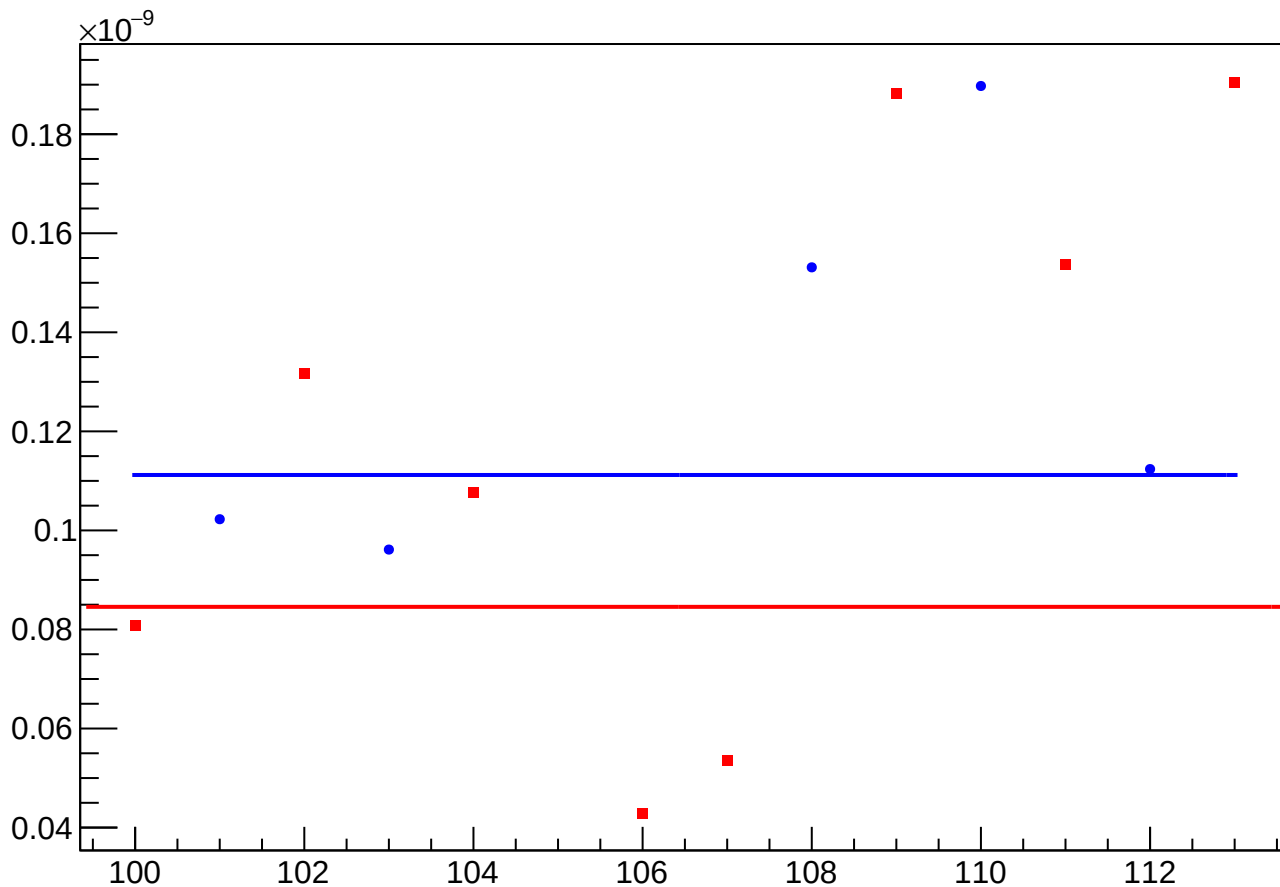
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 118302.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 710553.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

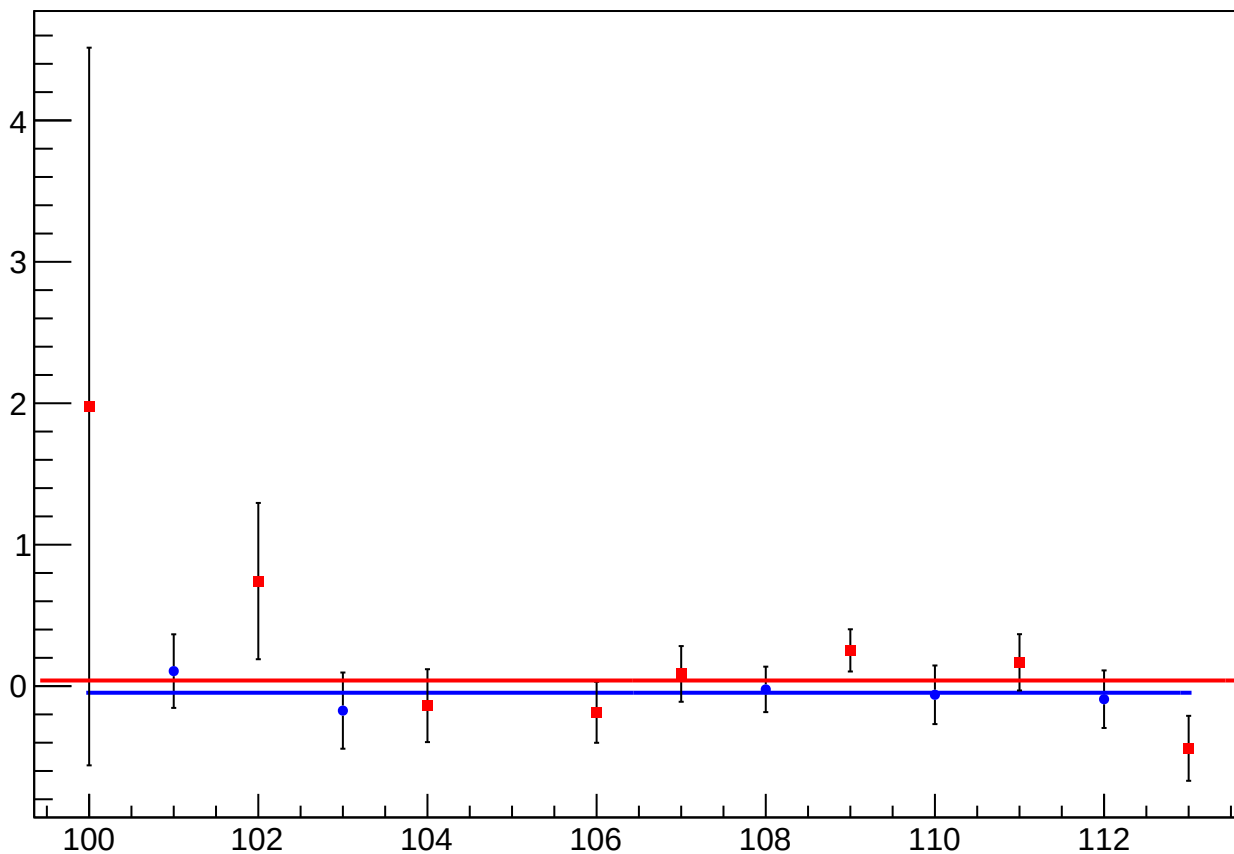
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 914143.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.047 $\pm$ -0.093  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.040 $\pm$ -0.080  $\chi^2$ /NDF: 10.6/7

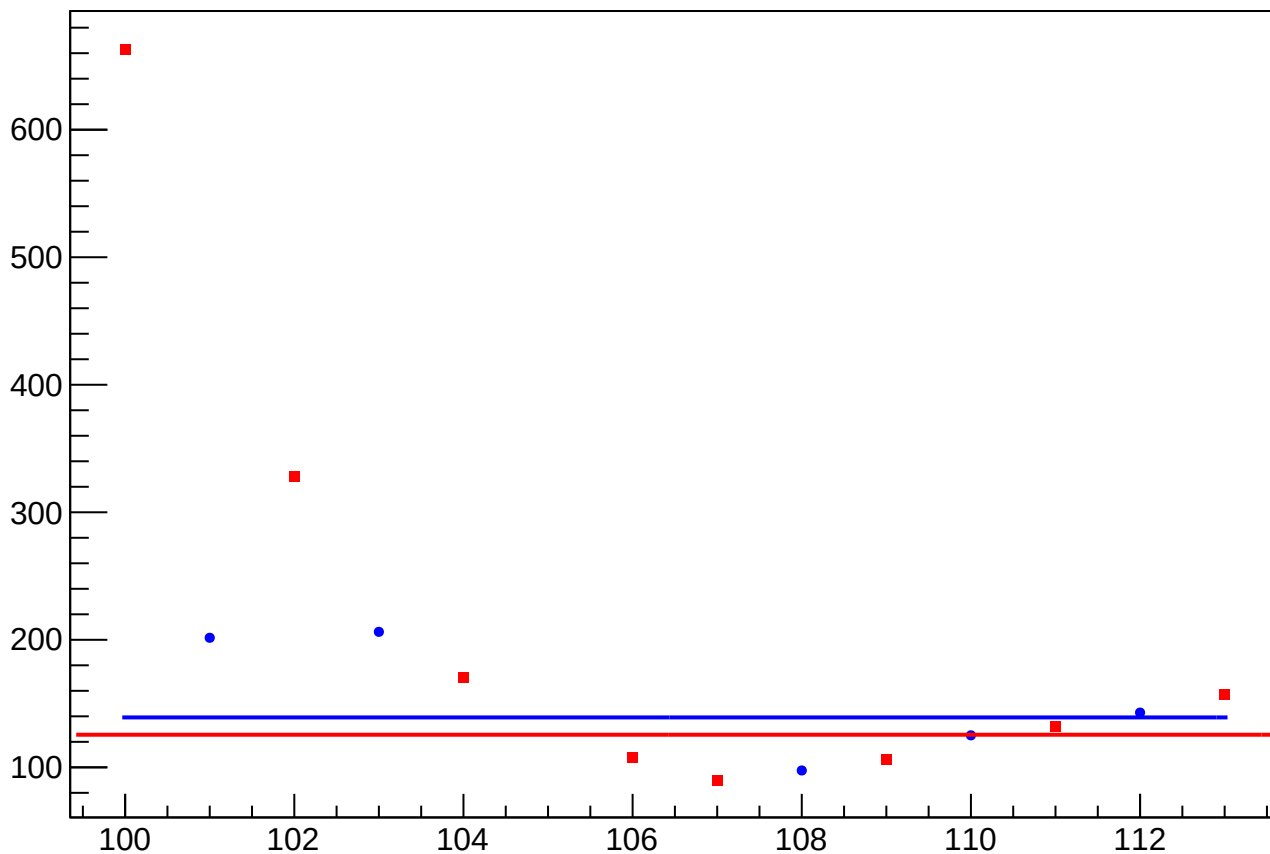
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ -0.061  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.147 $\pm$ 0.066  $\chi^2$ /NDF: 383175.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.574 $\pm$ 0.057  $\chi^2$ /NDF: 572839.9/7

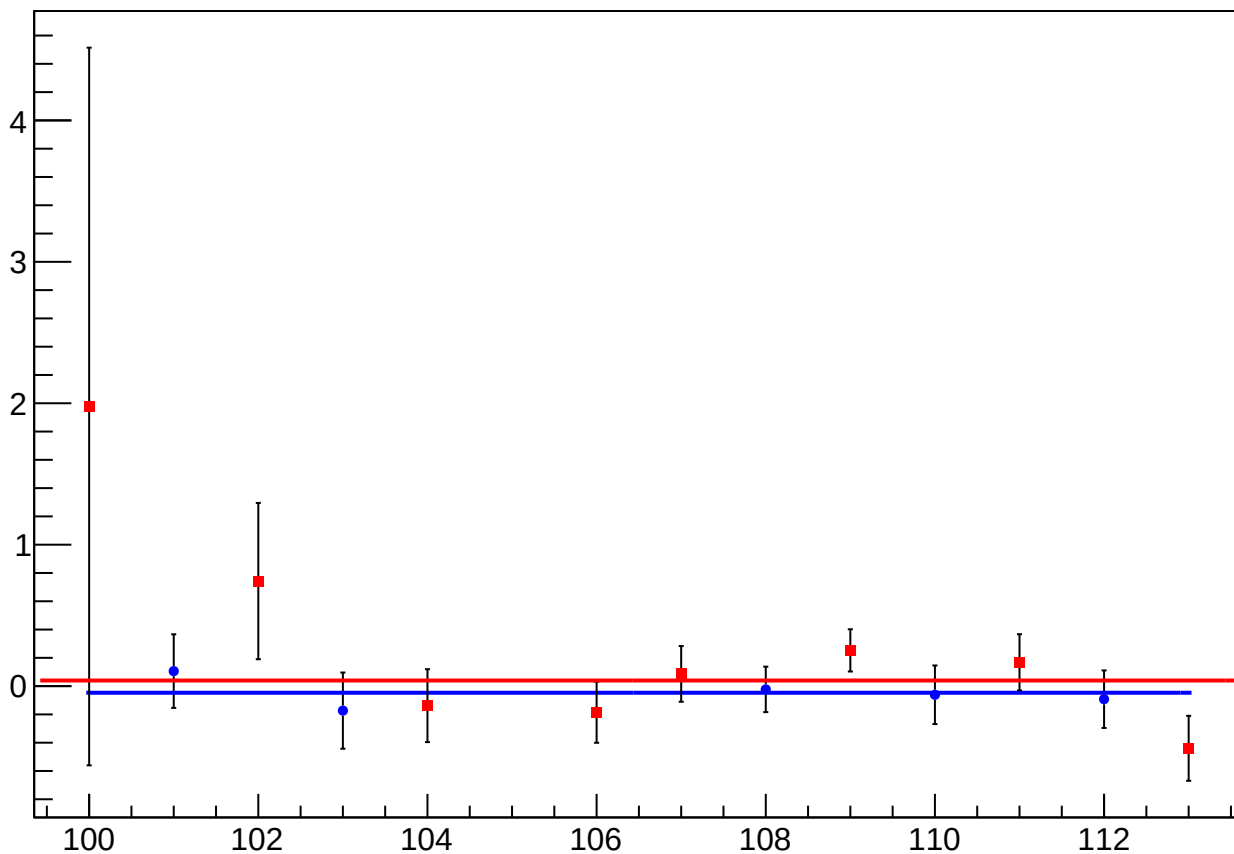
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 131.349 $\pm$ 0.043  $\chi^2$ /NDF: 980297.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.047 $\pm$ 0.093  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.040 $\pm$ 0.080  $\chi^2$ /NDF: 10.6/7

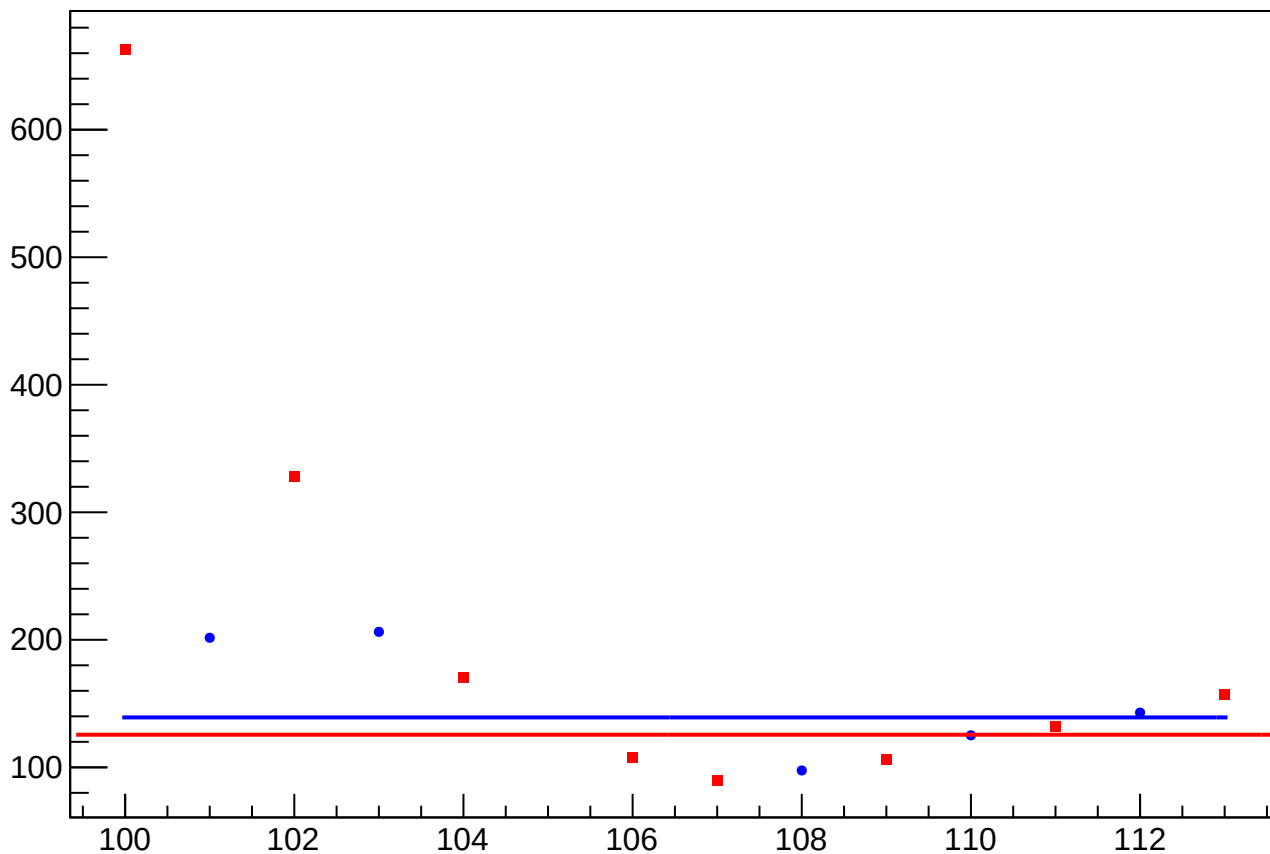
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.061  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.147 $\pm$ 0.066  $\chi^2$ /NDF: 383175.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 125.574 $\pm$ 0.057  $\chi^2$ /NDF: 572839.9/7

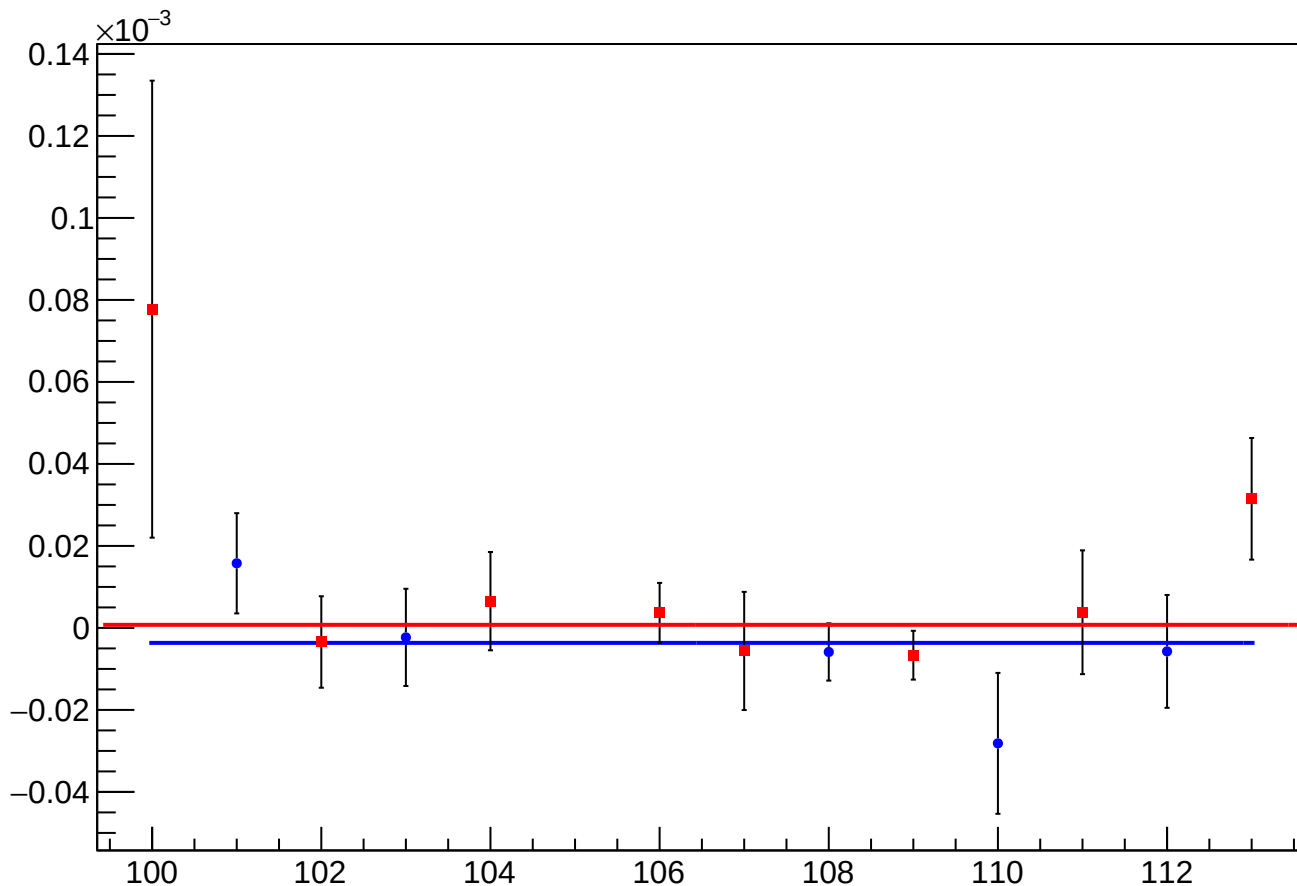
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 131.349 $\pm$ 0.043  $\chi^2$ /NDF: 980297.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.5/7

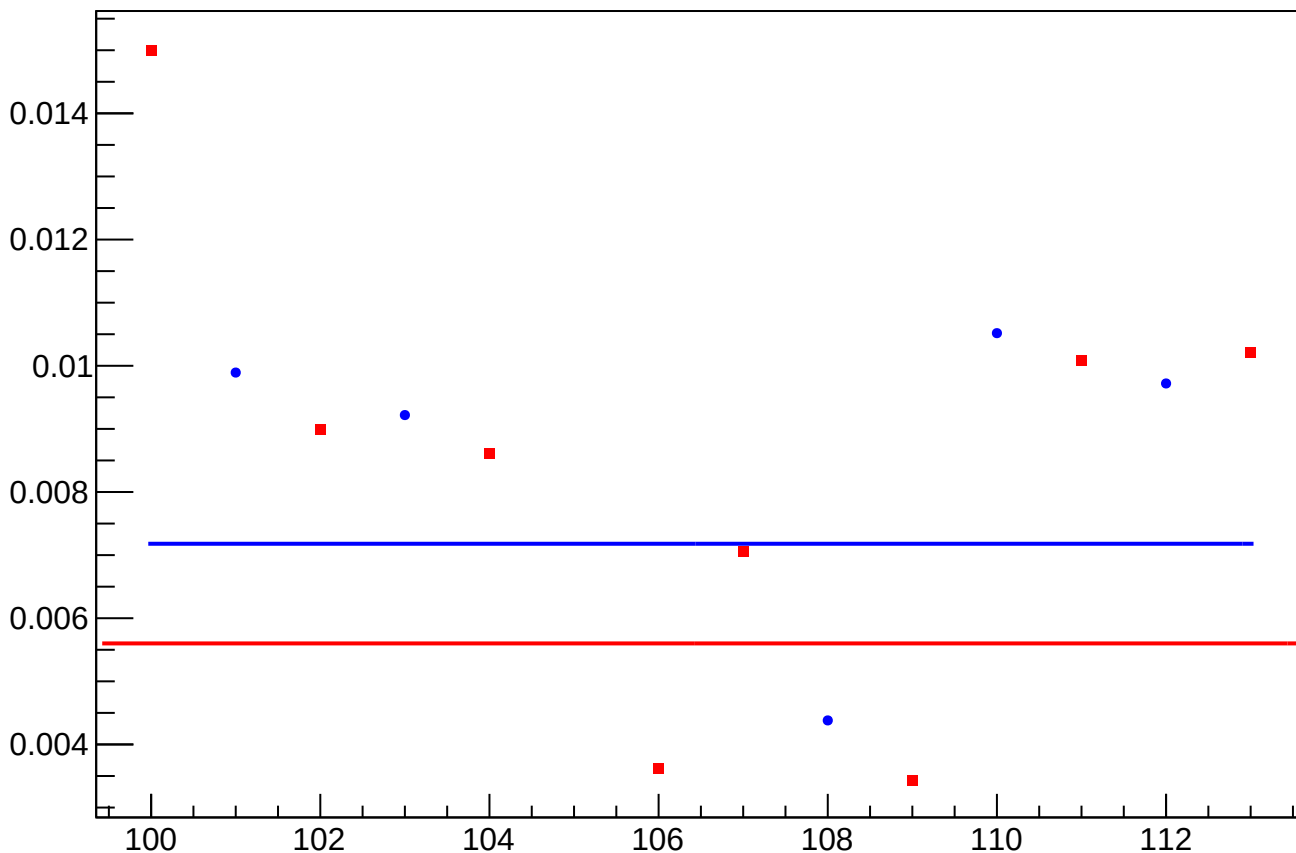
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 622404.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.006 $\pm$ 0.000  $\chi^2$ /NDF: 1173624.1/7

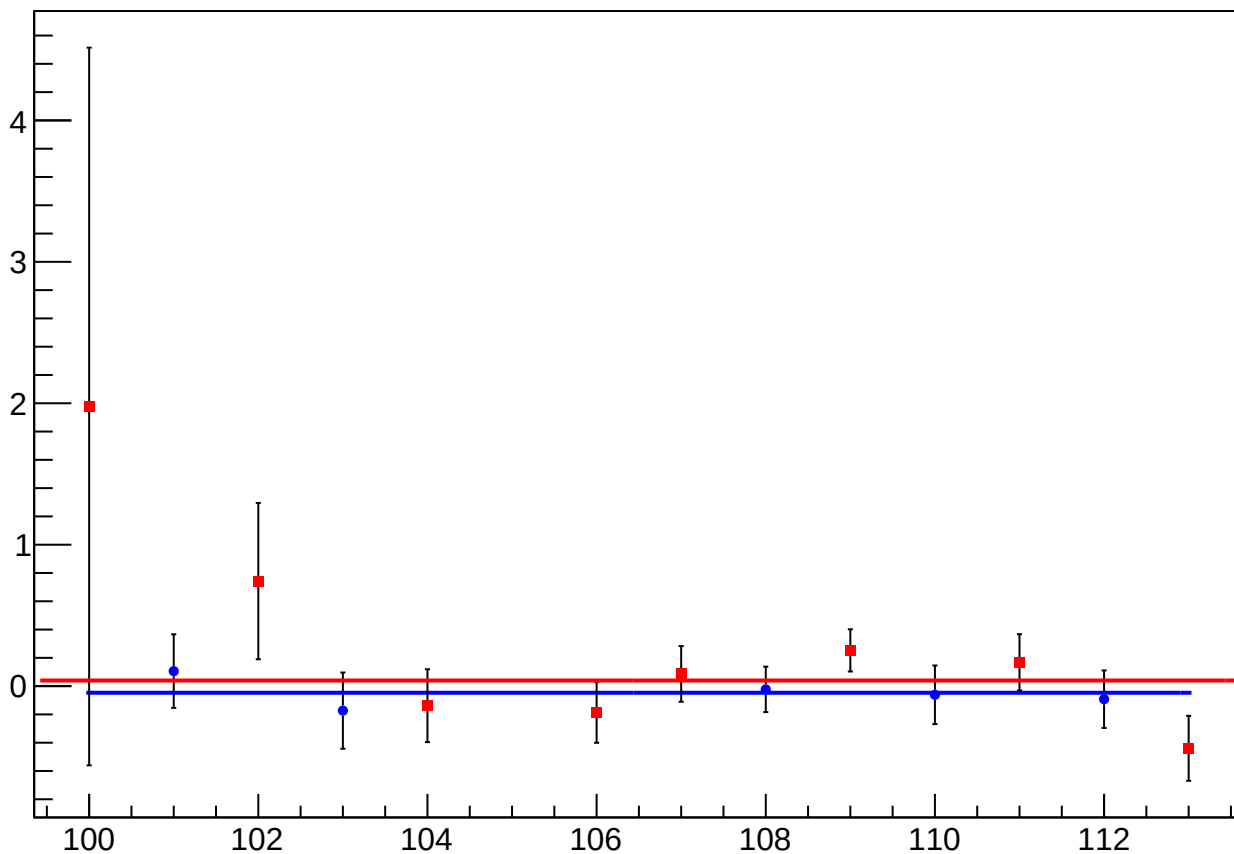
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.000  $\chi^2$ /NDF: 1933030.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.047 $\pm$ 0.093  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.040 $\pm$ 0.080  $\chi^2$ /NDF: 10.6/7

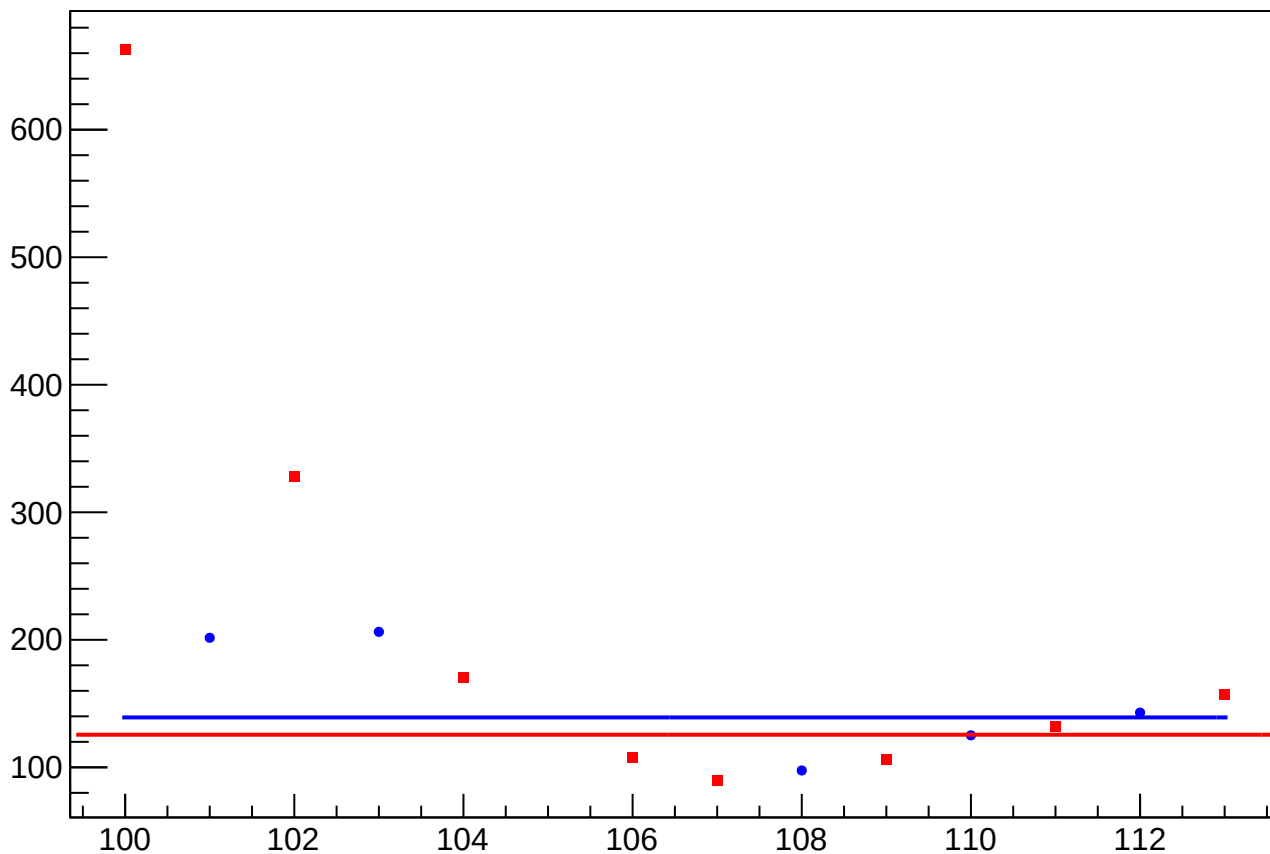
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.061  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.149+/-0.066  $\chi^2/\text{NDF}$ : 383138.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 125.576+/-0.057  $\chi^2/\text{NDF}$ : 572795.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

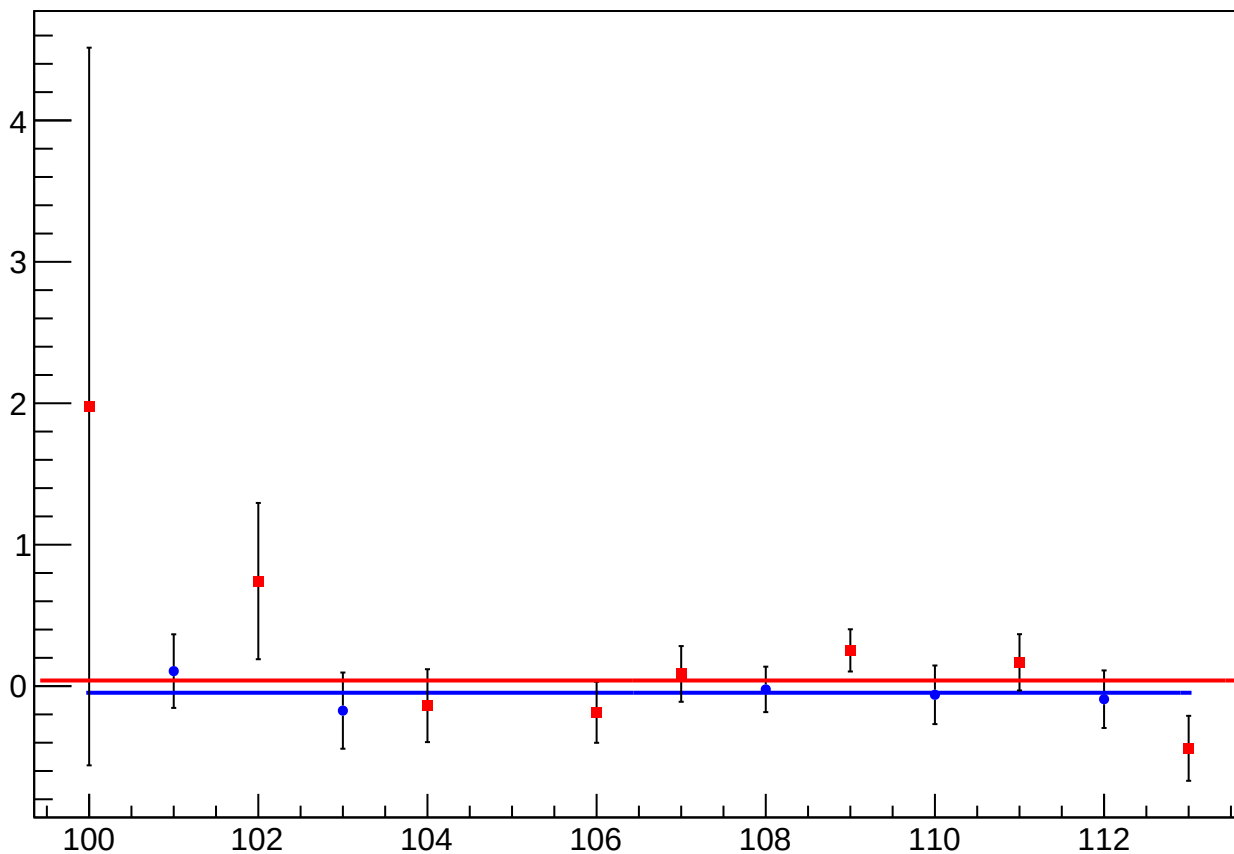
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 131.351+/-0.043  $\chi^2/\text{NDF}$ : 980213.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.047 $\pm$ 0.093  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.040 $\pm$ 0.080  $\chi^2$ /NDF: 10.6/7

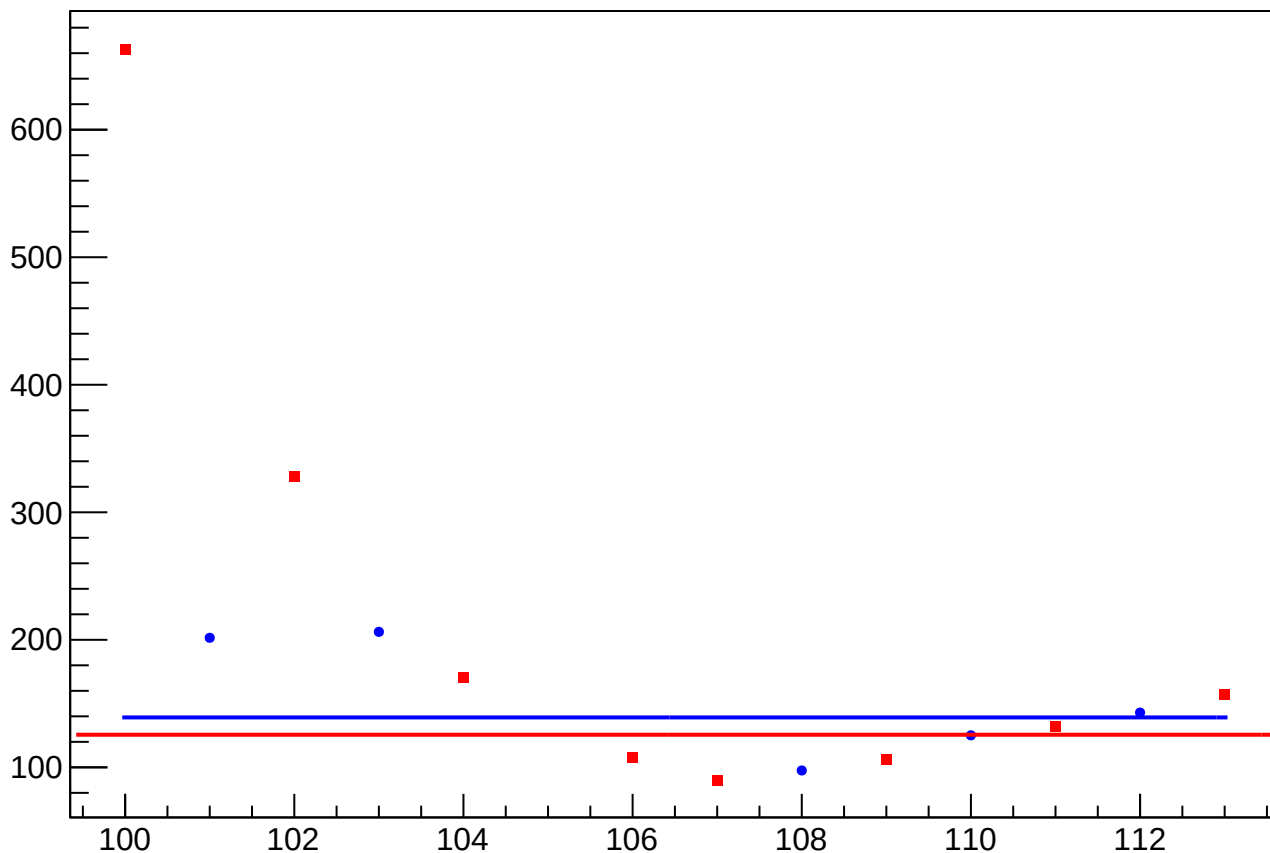
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.061  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.149 $\pm$ 0.066  $\chi^2$ /NDF: 383138.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 125.576 $\pm$ 0.057  $\chi^2$ /NDF: 572795.4/7

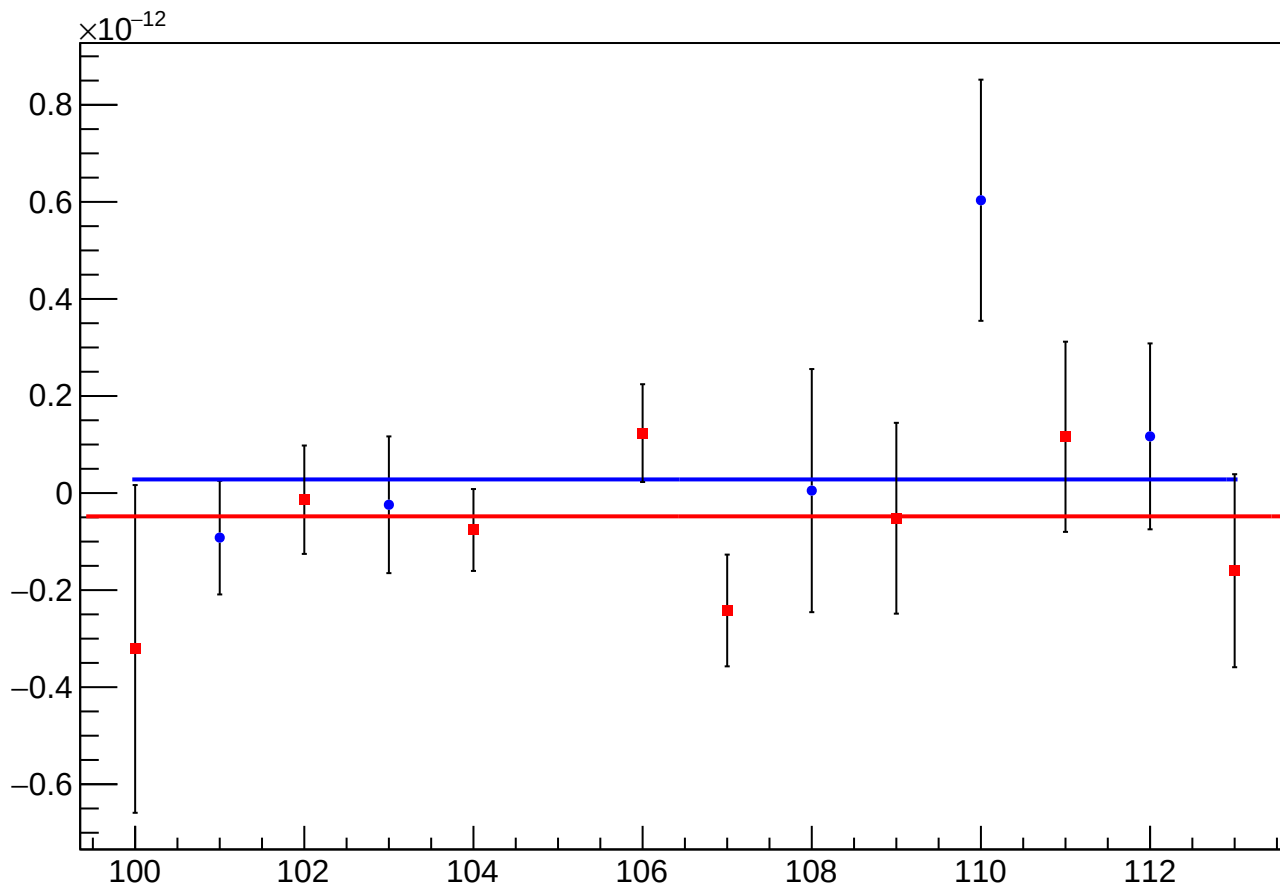
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 131.351 $\pm$ 0.043  $\chi^2$ /NDF: 980213.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.6/7

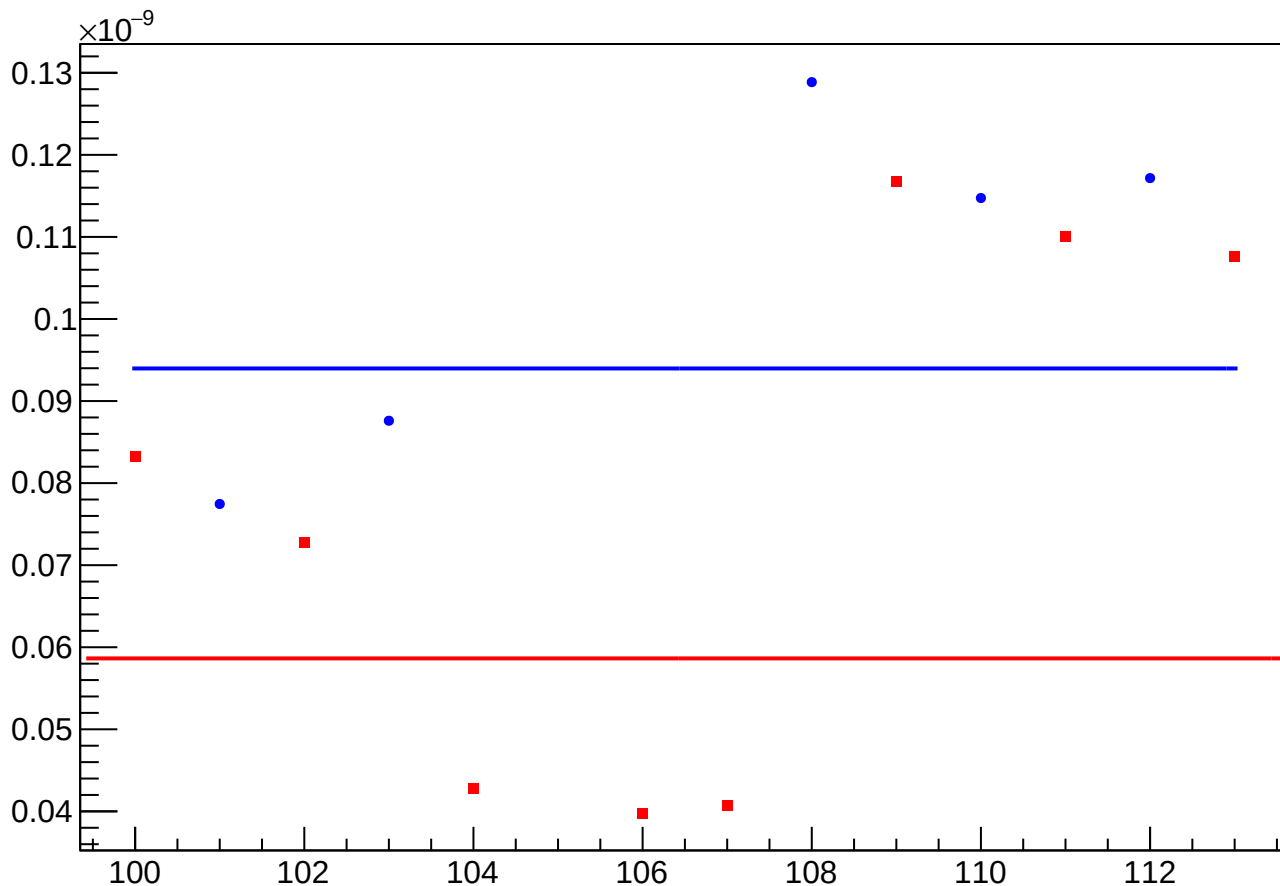
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 125965.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 665210.1/7

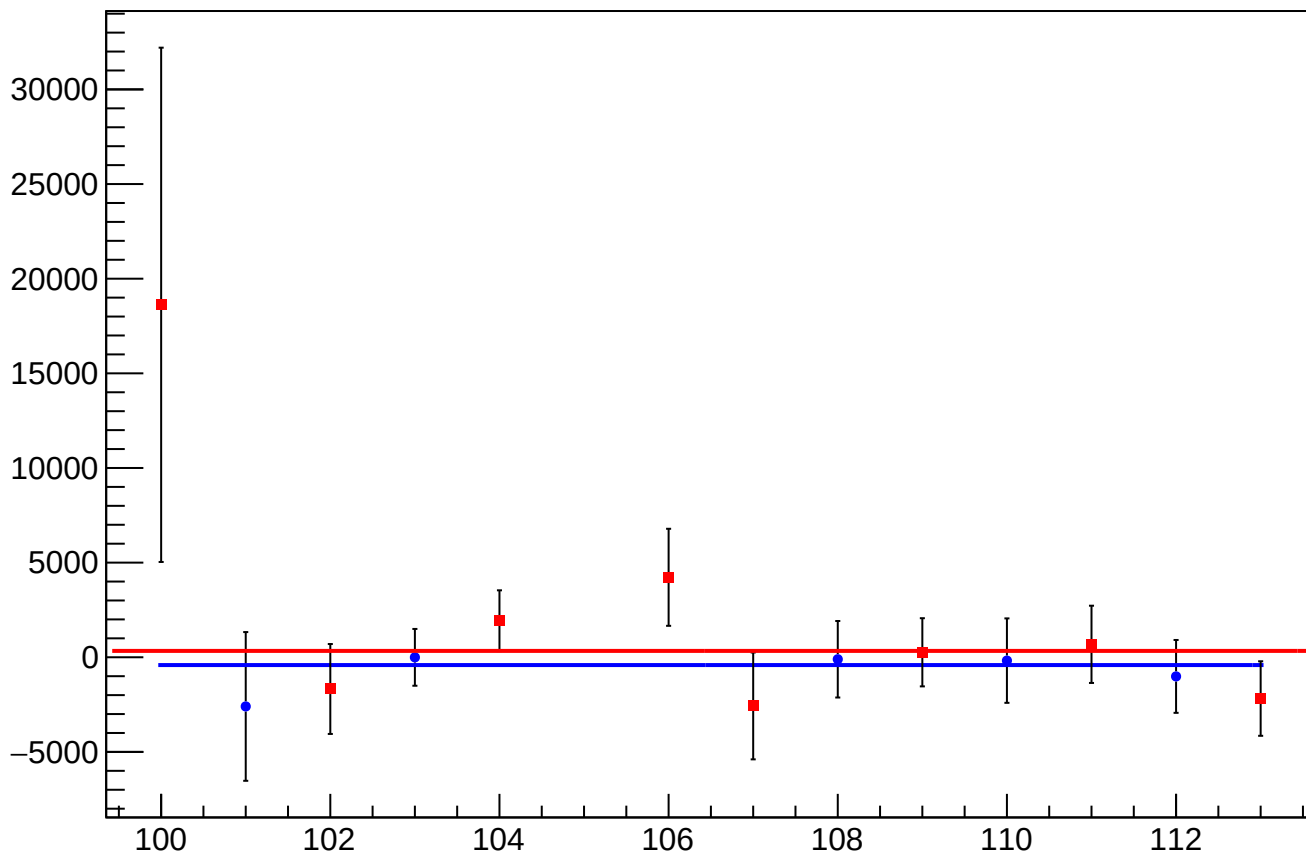
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1121626.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -411.890+/-903.574  $\chi^2/\text{NDF}$ : 0.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 336.145+/-777.287  $\chi^2/\text{NDF}$ : 8.5/7

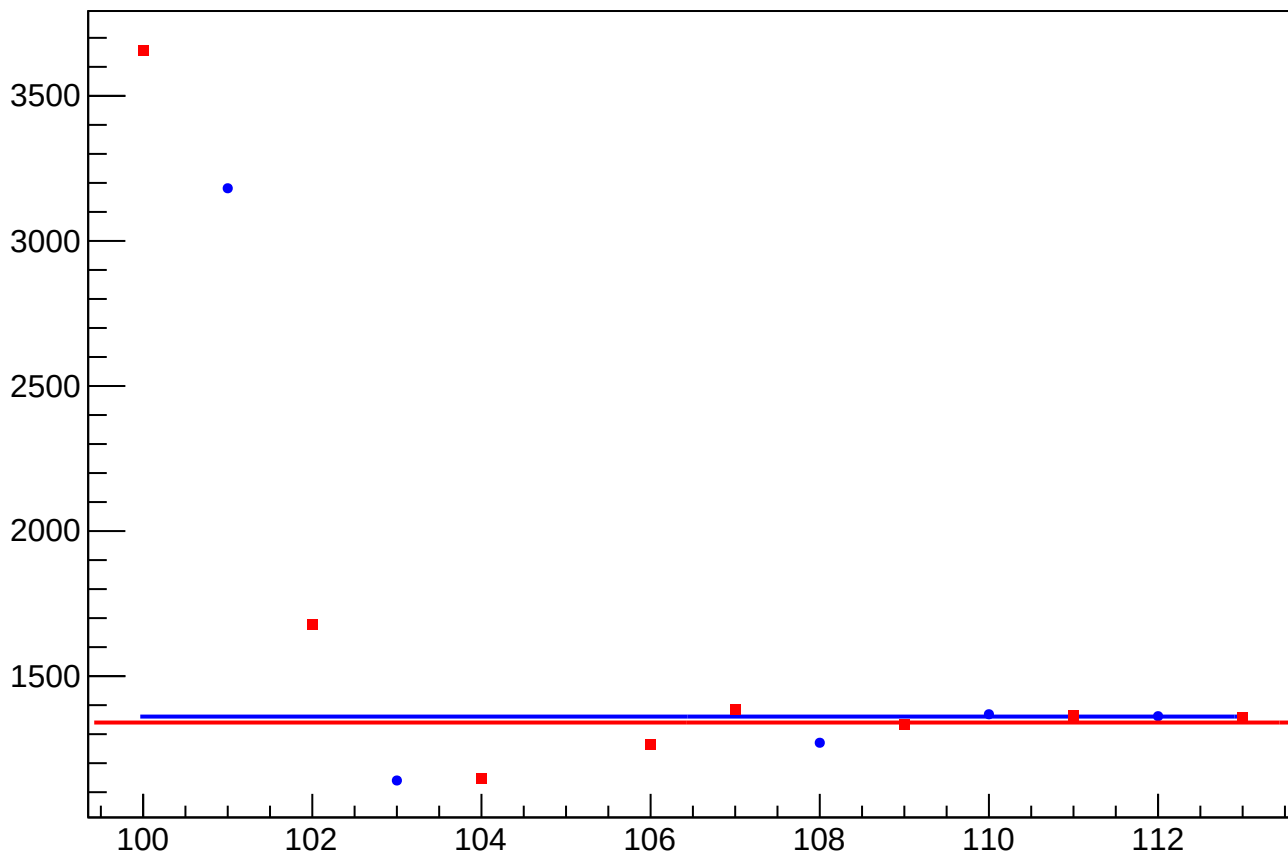
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.013+/-589.259  $\chi^2/\text{NDF}$ : 9.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1360.620 $\pm$ 0.639  $\chi^2$ /NDF: 476804.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1340.093 $\pm$ 0.550  $\chi^2$ /NDF: 129502.4/7

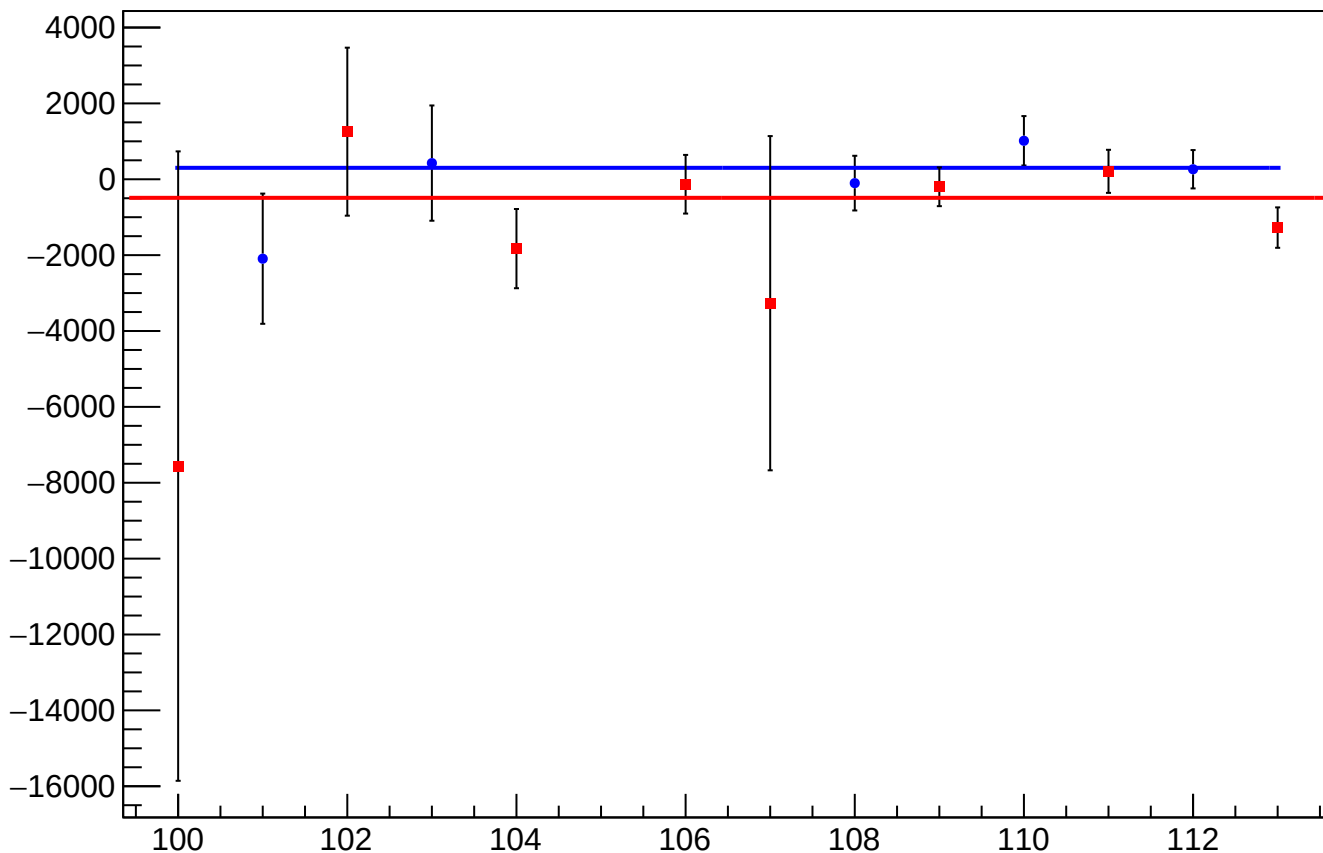
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1348.823 $\pm$ 0.417  $\chi^2$ /NDF: 606900.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_correction\_mean vs Slug



Right In: 301.693+/-333.866  $\chi^2/\text{NDF}$ : 3.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -489.238+/-274.020  $\chi^2/\text{NDF}$ : 7.6/7

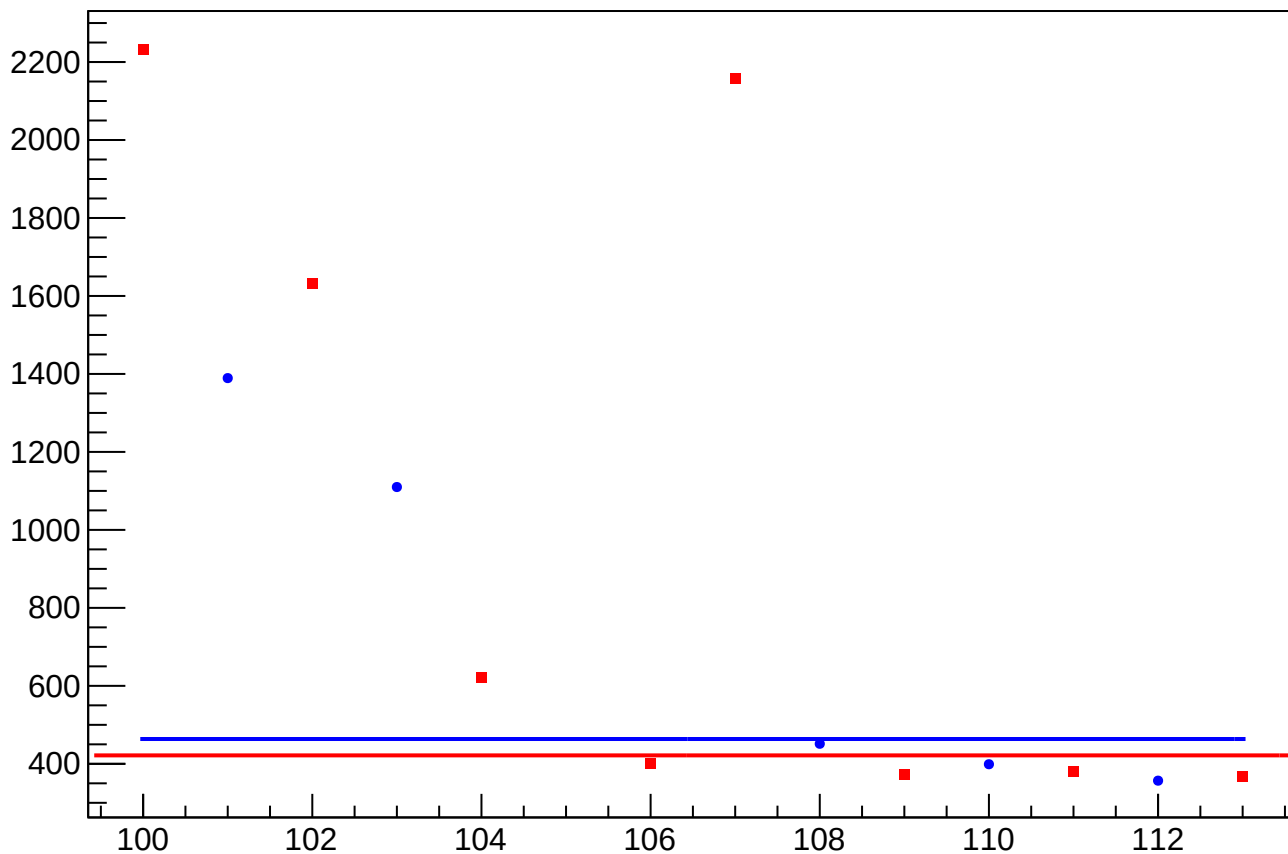
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -170.891+/-211.813  $\chi^2/\text{NDF}$ : 14.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_correction\_rms vs Slug



Right In: 463.667 $\pm$ 0.236  $\chi^2$ /NDF: 1053457.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 421.668 $\pm$ 0.194  $\chi^2$ /NDF: 1128319.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

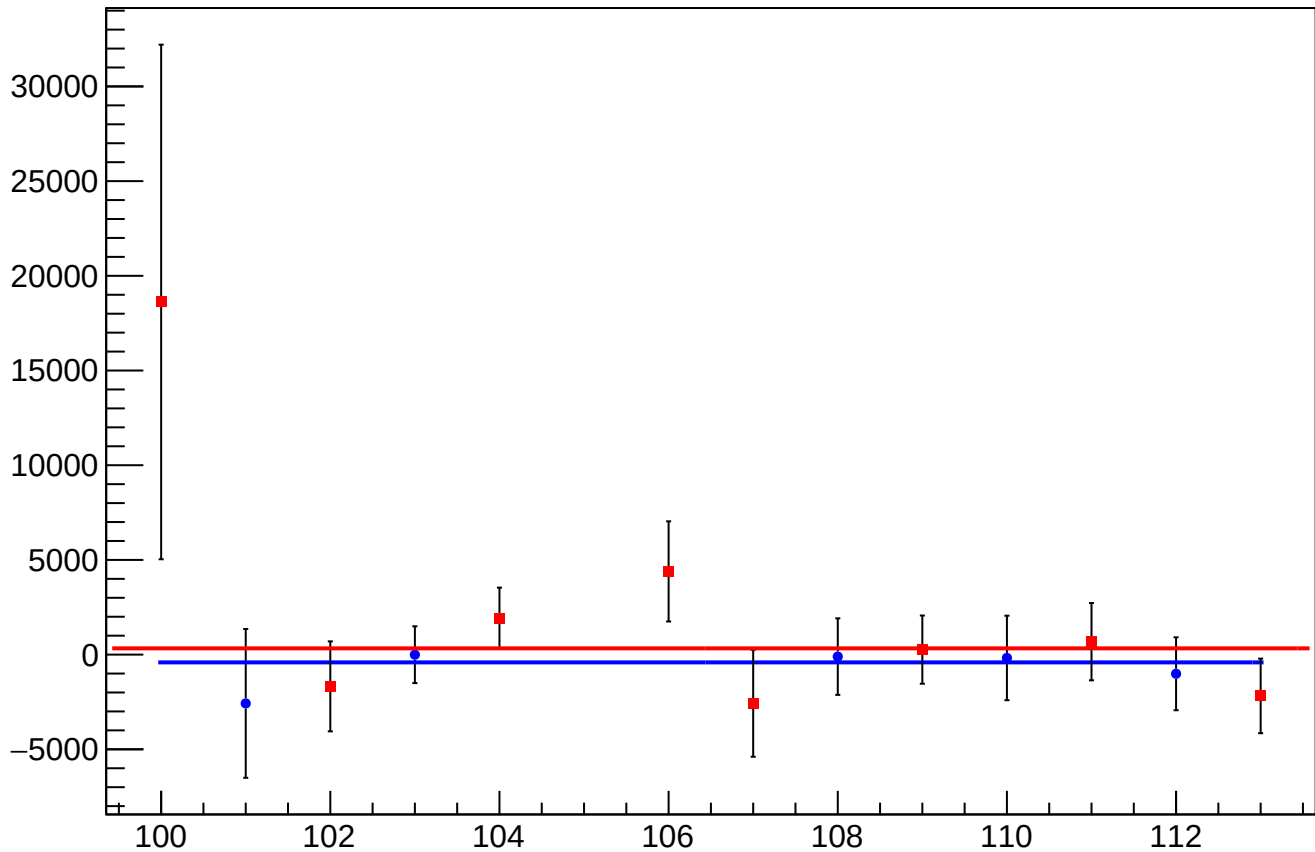
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 438.572 $\pm$ 0.150  $\chi^2$ /NDF: 2200688.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -410.566+/-903.574  $\chi^2/\text{NDF}$ : 0.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 329.426+/-779.434  $\chi^2/\text{NDF}$ : 8.6/7

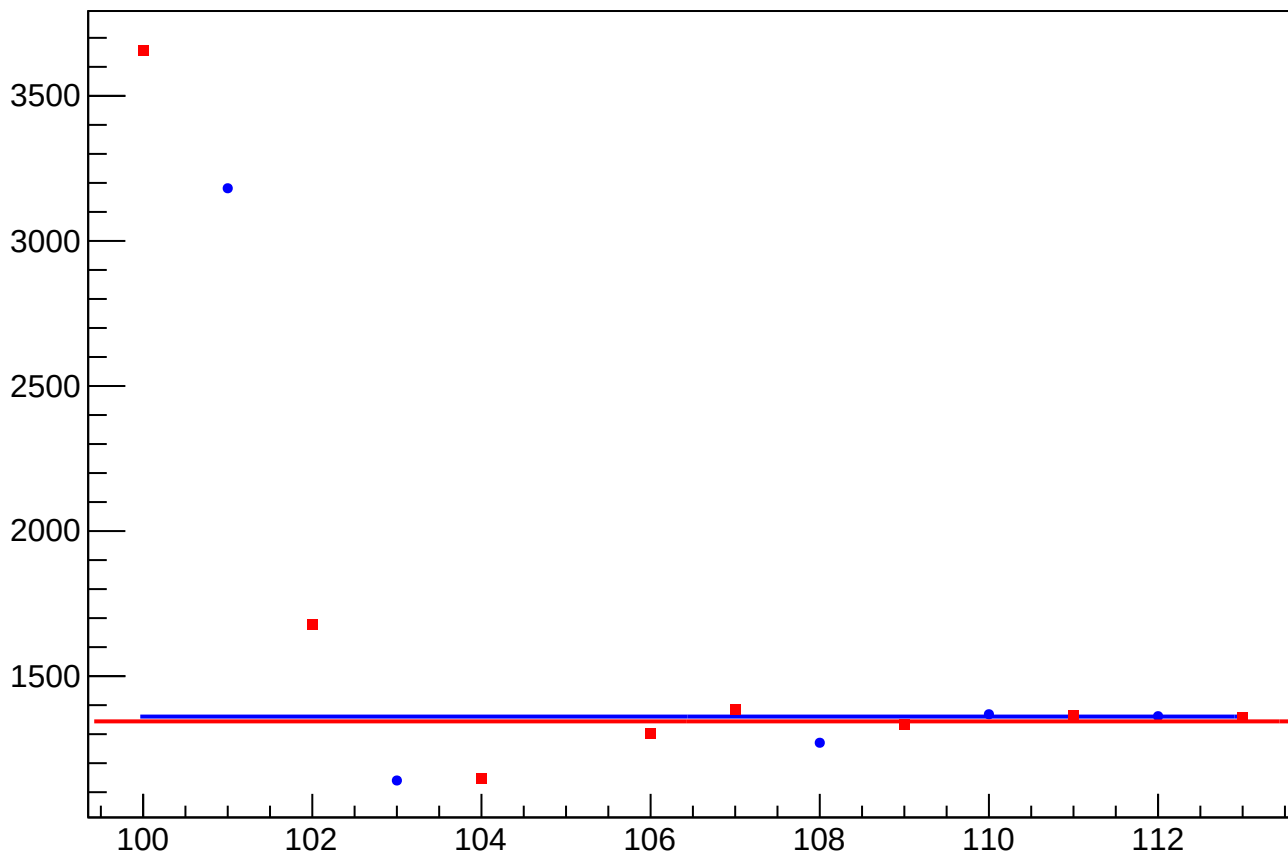
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.717+/-590.193  $\chi^2/\text{NDF}$ : 9.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1360.619 $\pm$ 0.639  $\chi^2$ /NDF: 476806.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1344.064 $\pm$ 0.551  $\chi^2$ /NDF: 128020.9/7

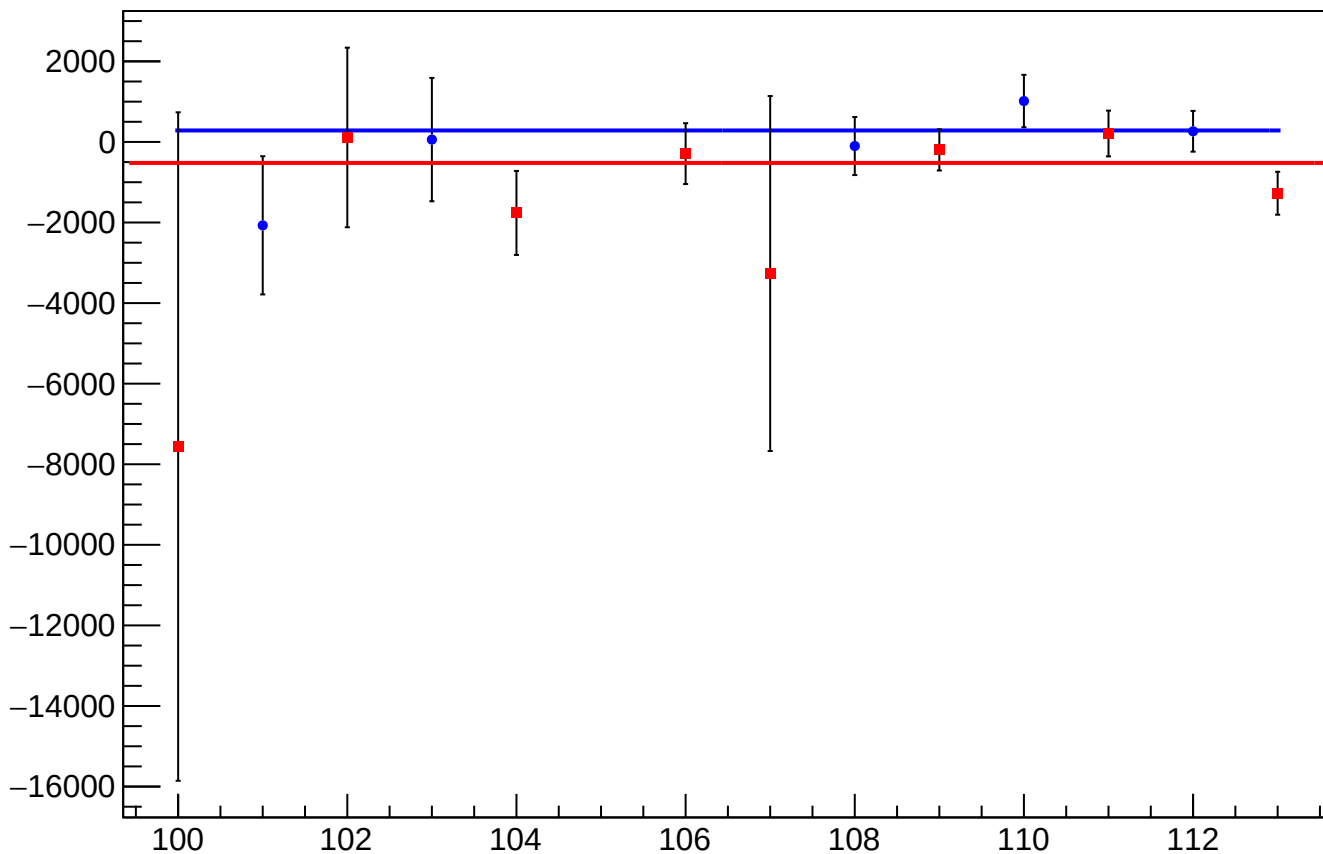
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1351.127 $\pm$ 0.417  $\chi^2$ /NDF: 605212.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_cor\_correction\_mean vs Slug



Right In: 284.887 $\pm$ 333.976  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -520.926 $\pm$ 273.176  $\chi^2$ /NDF: 6.8/7

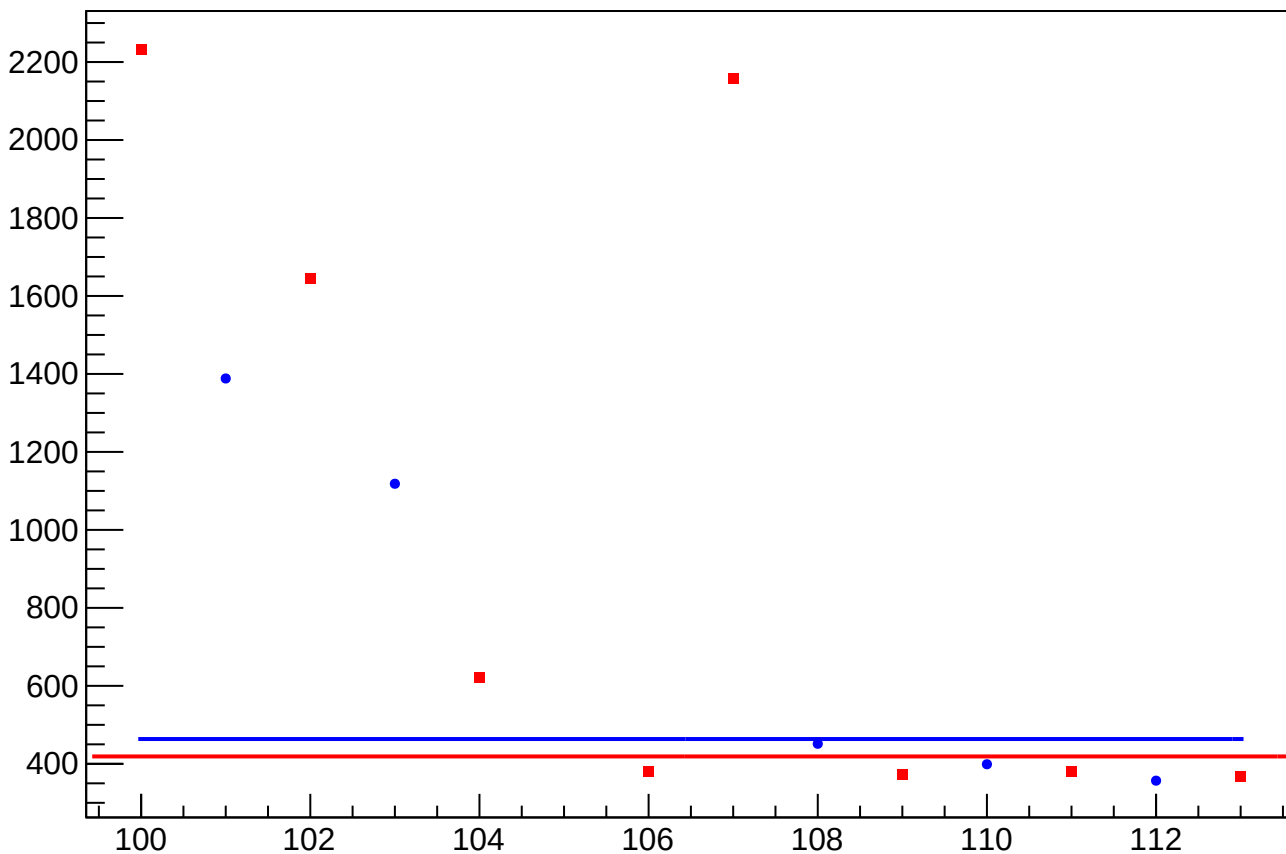
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -197.911 $\pm$ 211.451  $\chi^2$ /NDF: 13.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_cor\_correction\_rms vs Slug



Right In: 463.622+/-0.236  $\chi^2/\text{NDF}$ : 1057065.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 418.965+/-0.193  $\chi^2/\text{NDF}$ : 1139192.0/7

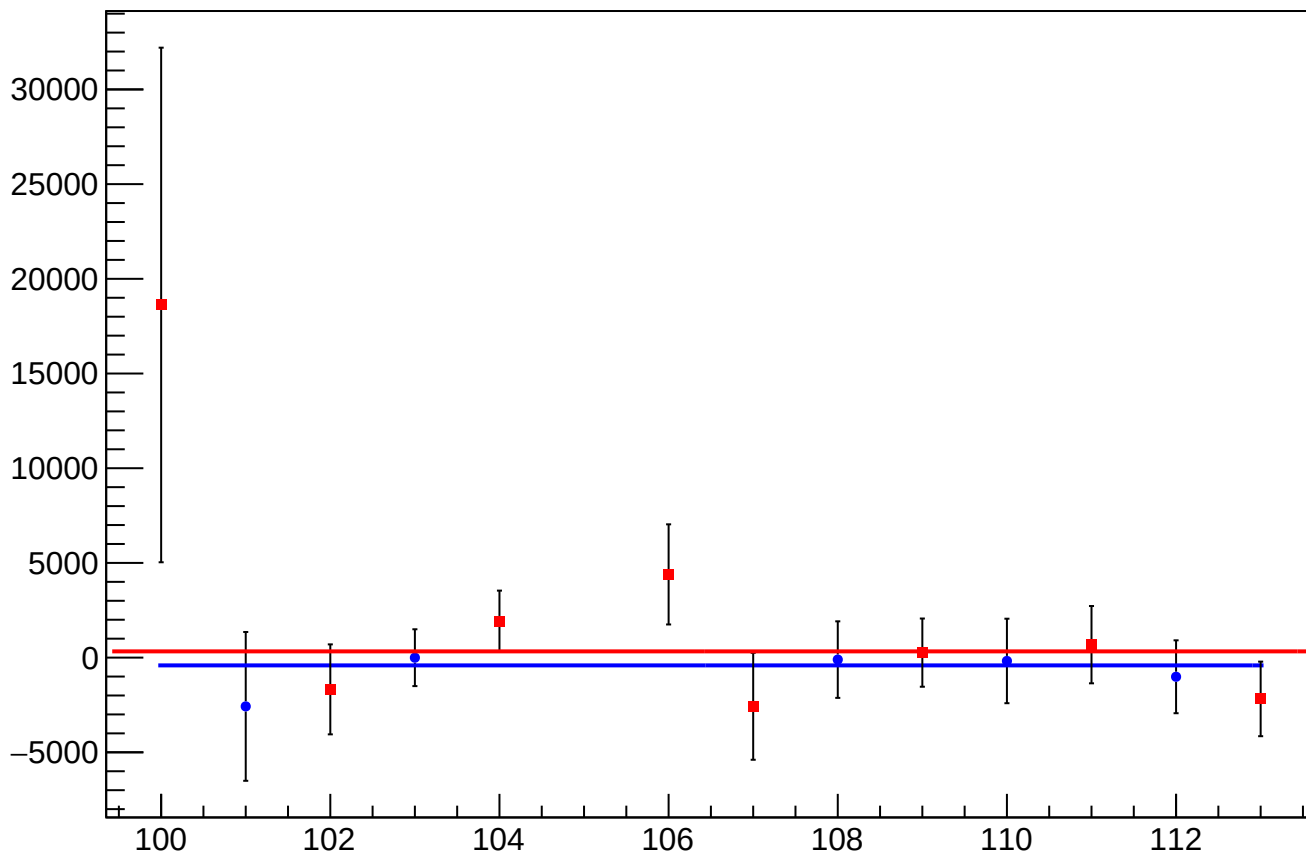
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 436.866+/-0.150  $\chi^2/\text{NDF}$ : 2217681.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -410.566+/-903.574  $\chi^2/\text{NDF}$ : 0.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 329.426+/-779.434  $\chi^2/\text{NDF}$ : 8.6/7

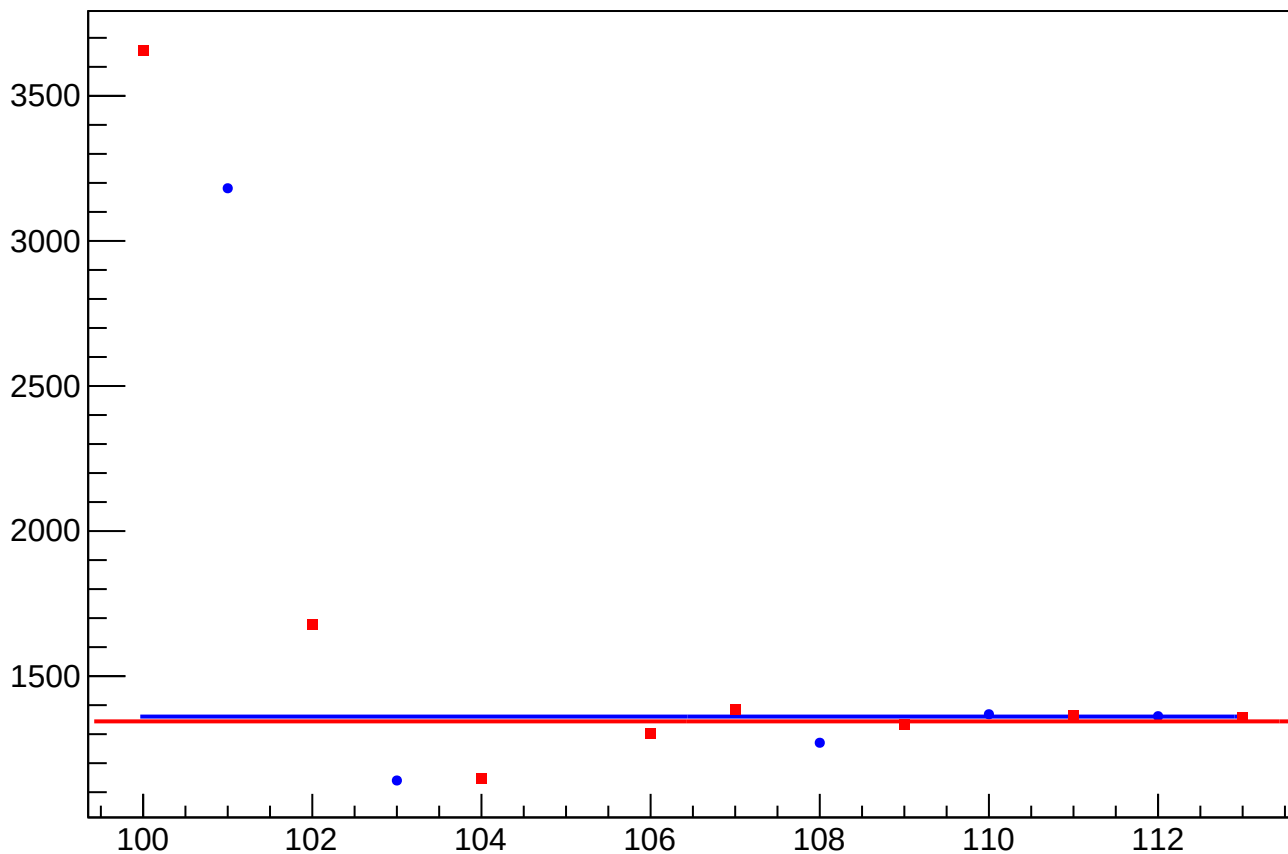
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.717+/-590.193  $\chi^2/\text{NDF}$ : 9.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1360.619 $\pm$ 0.639  $\chi^2$ /NDF: 476806.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1344.064 $\pm$ 0.551  $\chi^2$ /NDF: 128020.9/7

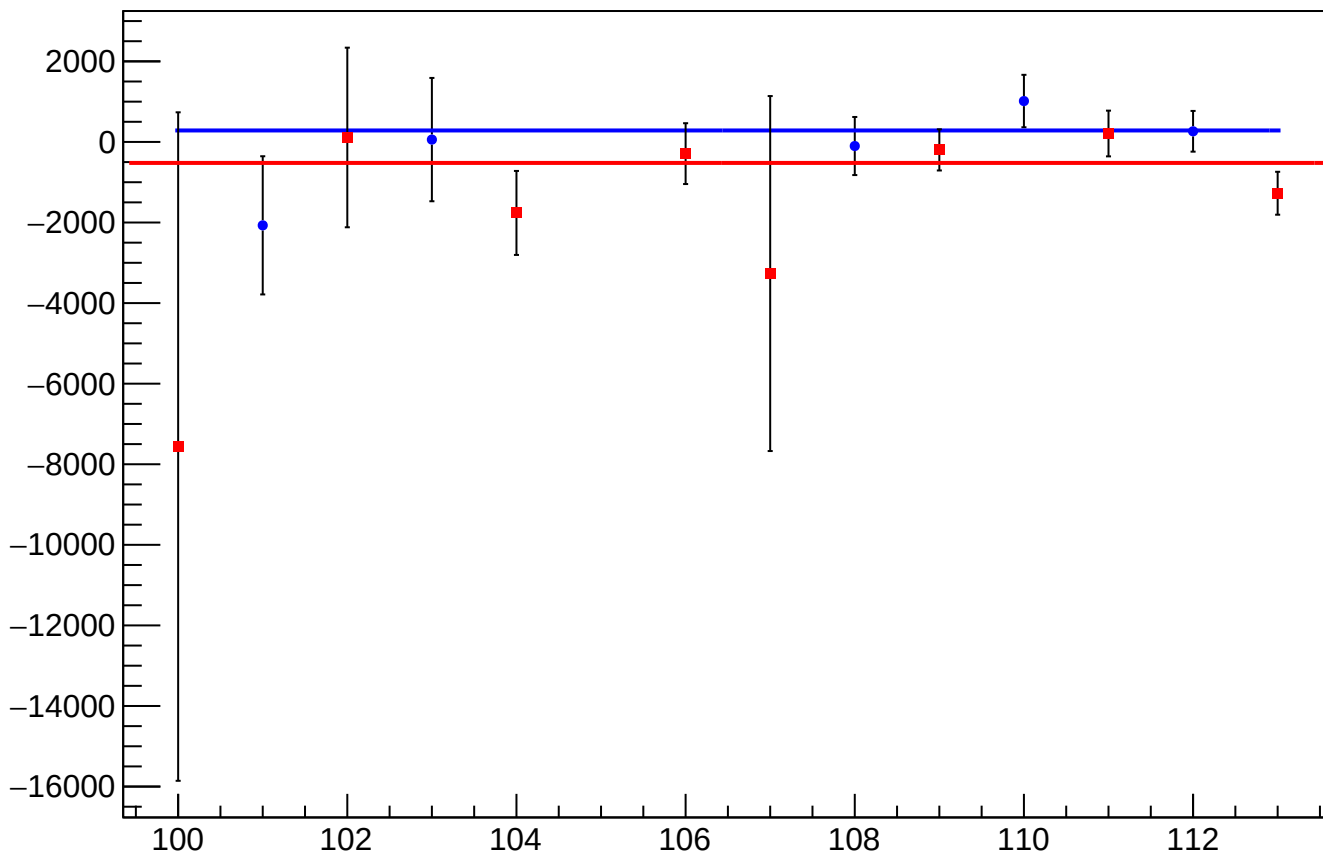
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1351.127 $\pm$ 0.417  $\chi^2$ /NDF: 605212.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 284.887 $\pm$ 333.976  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -520.926 $\pm$ 273.176  $\chi^2$ /NDF: 6.8/7

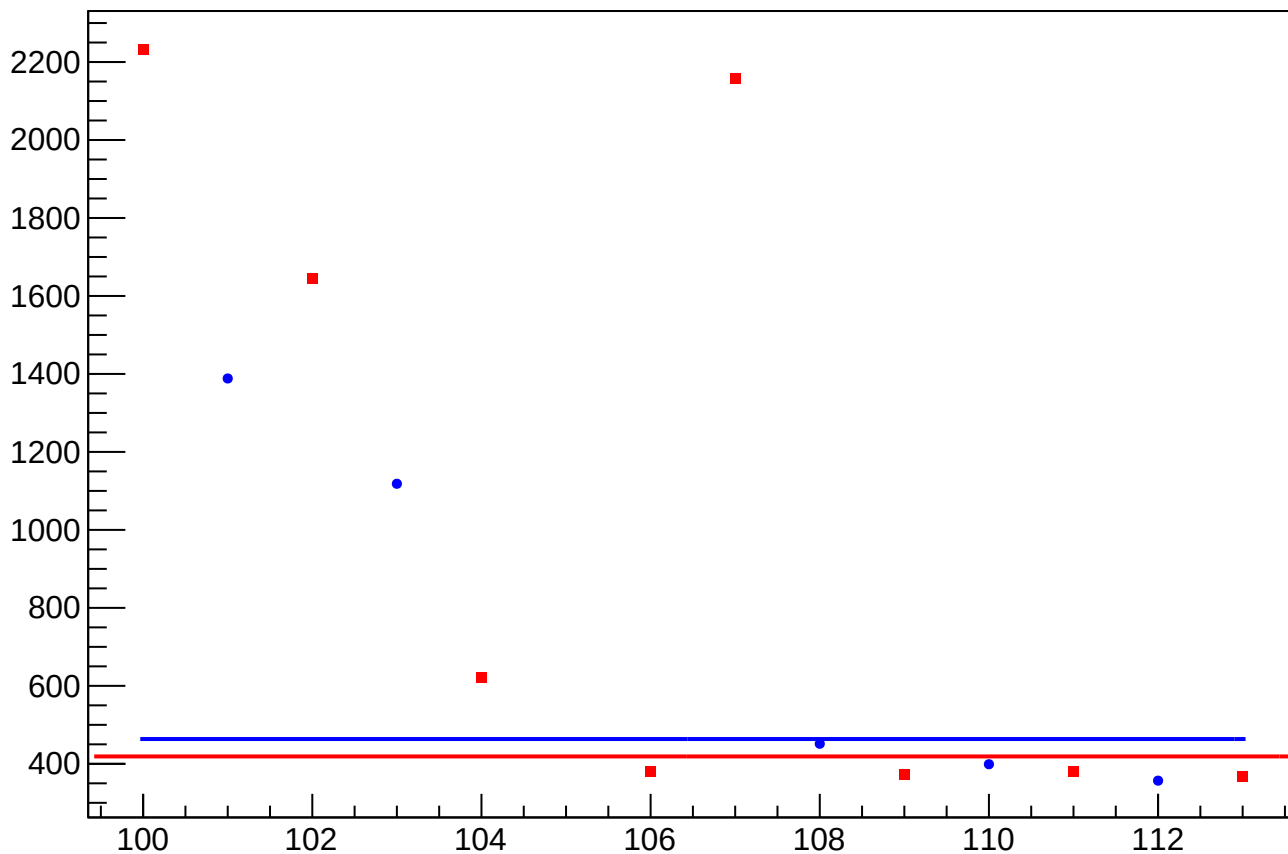
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -197.911 $\pm$ 211.451  $\chi^2$ /NDF: 13.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 463.622 $\pm$ 0.236  $\chi^2$ /NDF: 1057065.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 418.965 $\pm$ 0.193  $\chi^2$ /NDF: 1139192.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

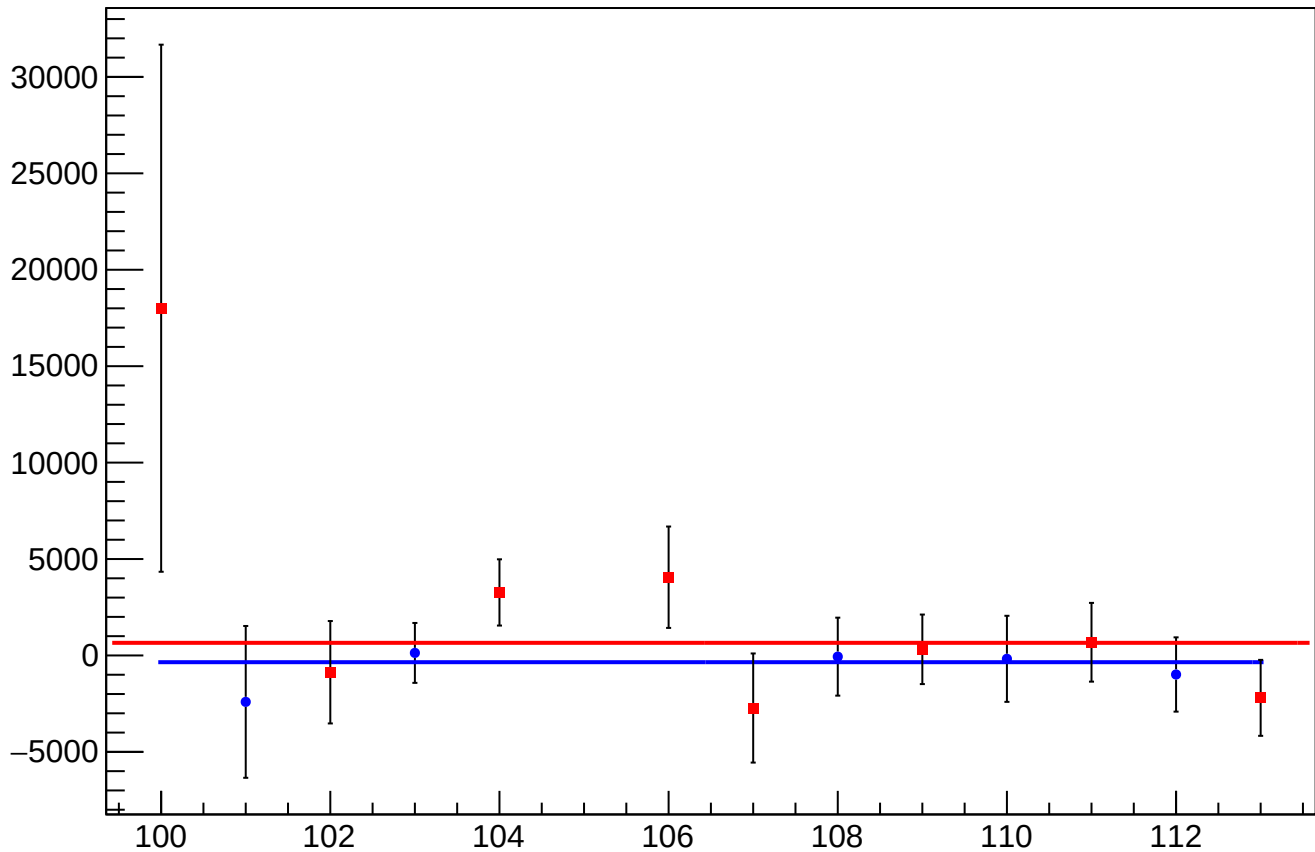
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 436.866 $\pm$ 0.150  $\chi^2$ /NDF: 2217681.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -349.551+/-915.113  $\chi^2/\text{NDF}$ : 0.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 654.622+/-800.366  $\chi^2/\text{NDF}$ : 9.5/7

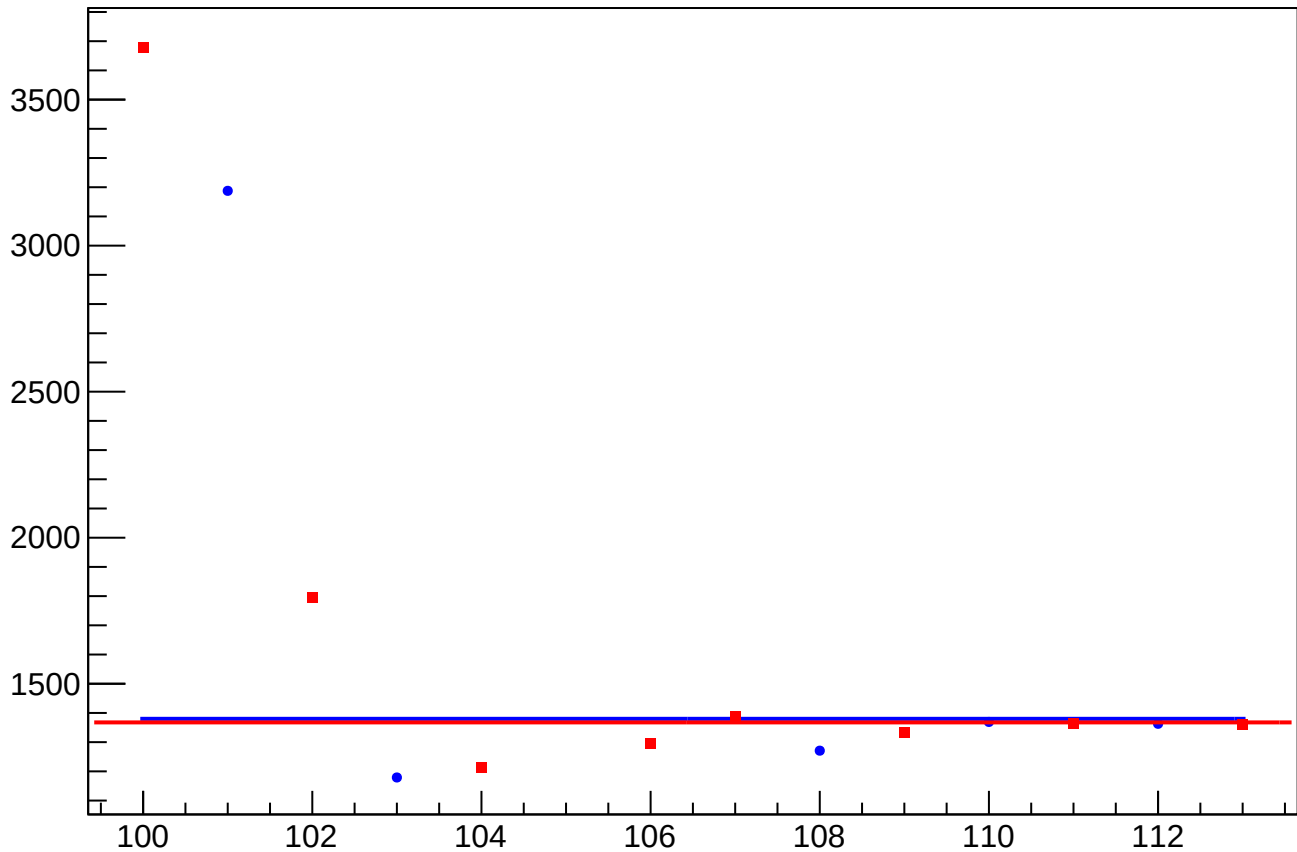
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 219.404+/-602.454  $\chi^2/\text{NDF}$ : 10.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1379.906 $\pm$ 0.647  $\chi^2$ /NDF: 461318.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1367.613 $\pm$ 0.566  $\chi^2$ /NDF: 127287.8/7

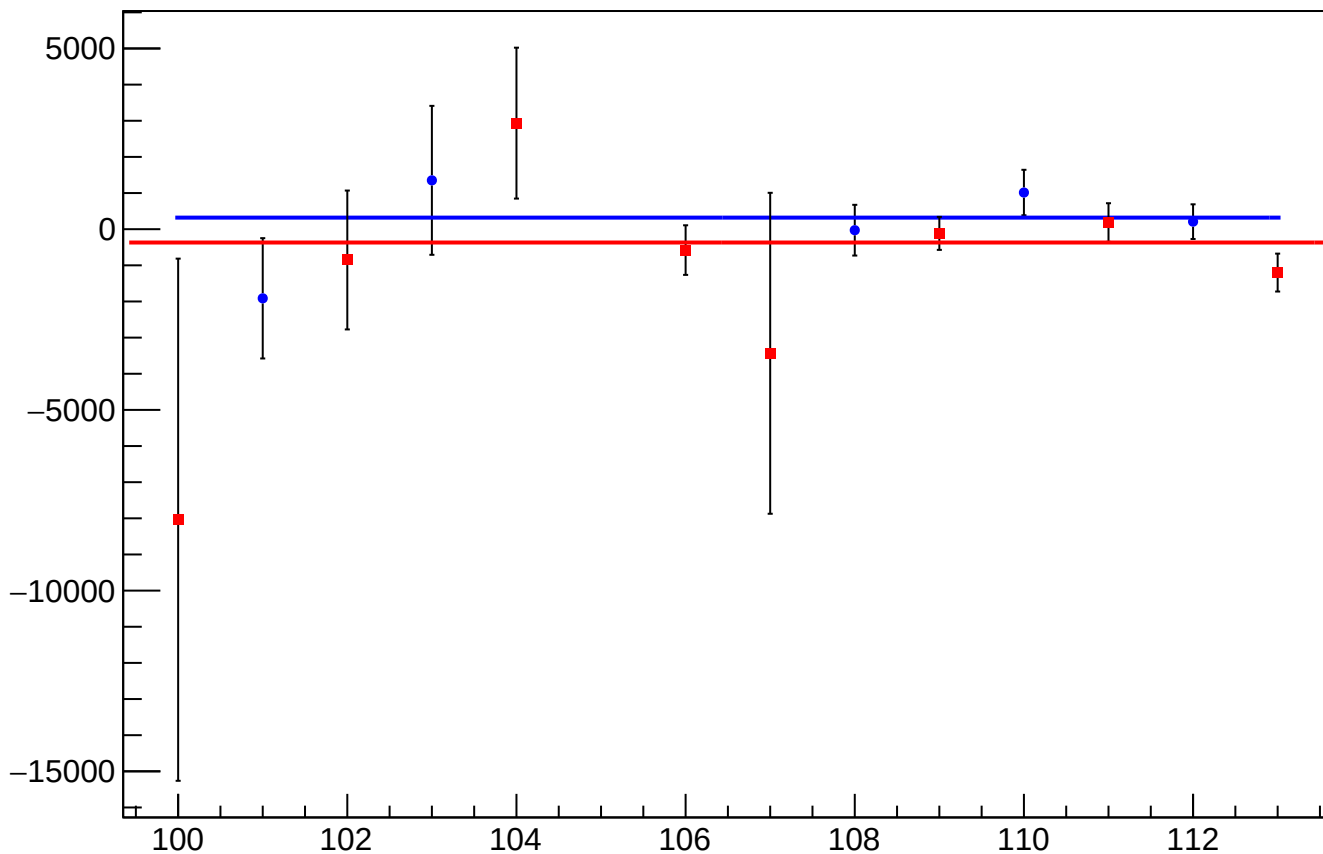
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1372.941 $\pm$ 0.426  $\chi^2$ /NDF: 588810.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_correction\_mean vs Slug



Right In: 320.268+/-324.444  $\chi^2/\text{NDF}$ : 3.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -368.627+/-261.399  $\chi^2/\text{NDF}$ : 8.2/7

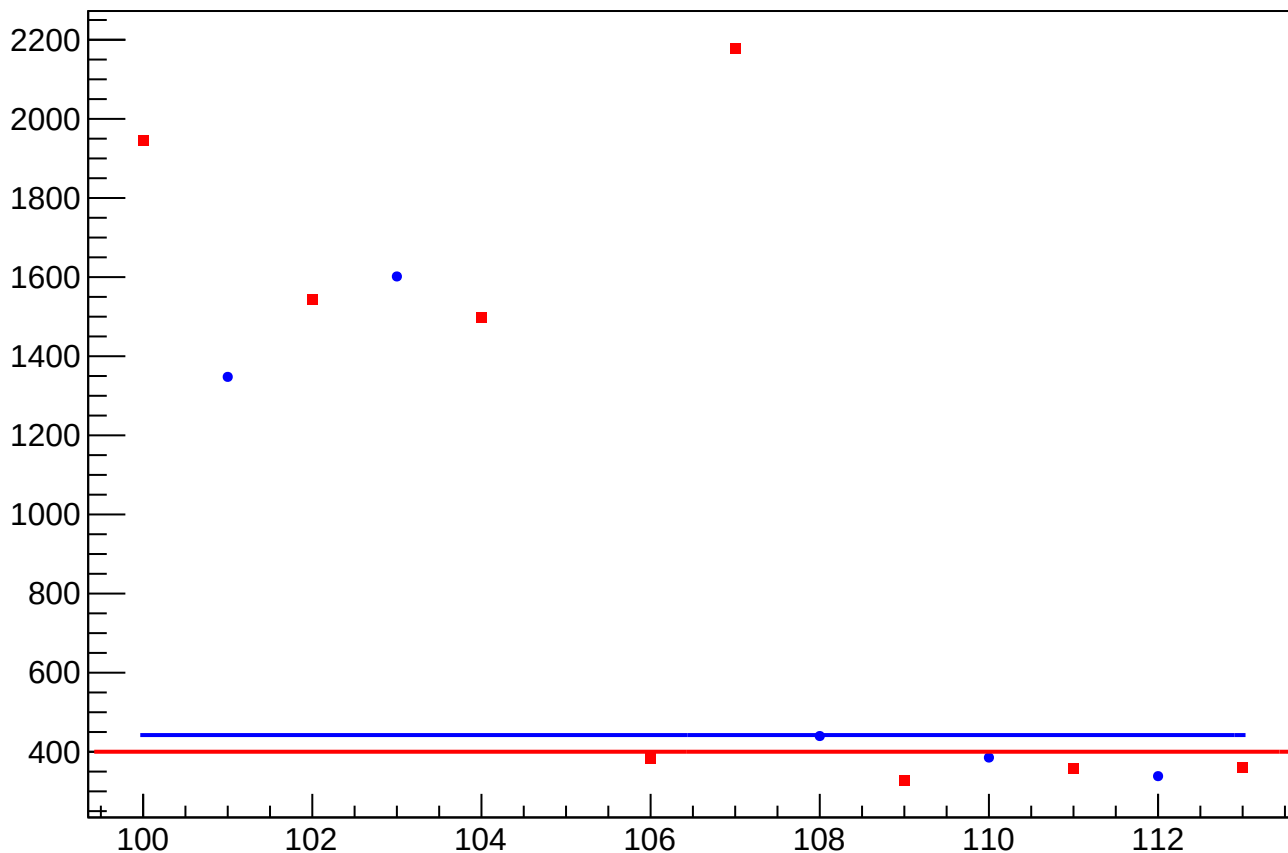
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -97.466+/-203.553  $\chi^2/\text{NDF}$ : 14.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_correction\_rms vs Slug



Right In: 442.314 $\pm$ 0.229  $\chi^2$ /NDF: 1335073.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 400.180 $\pm$ 0.185  $\chi^2$ /NDF: 1750225.1/7

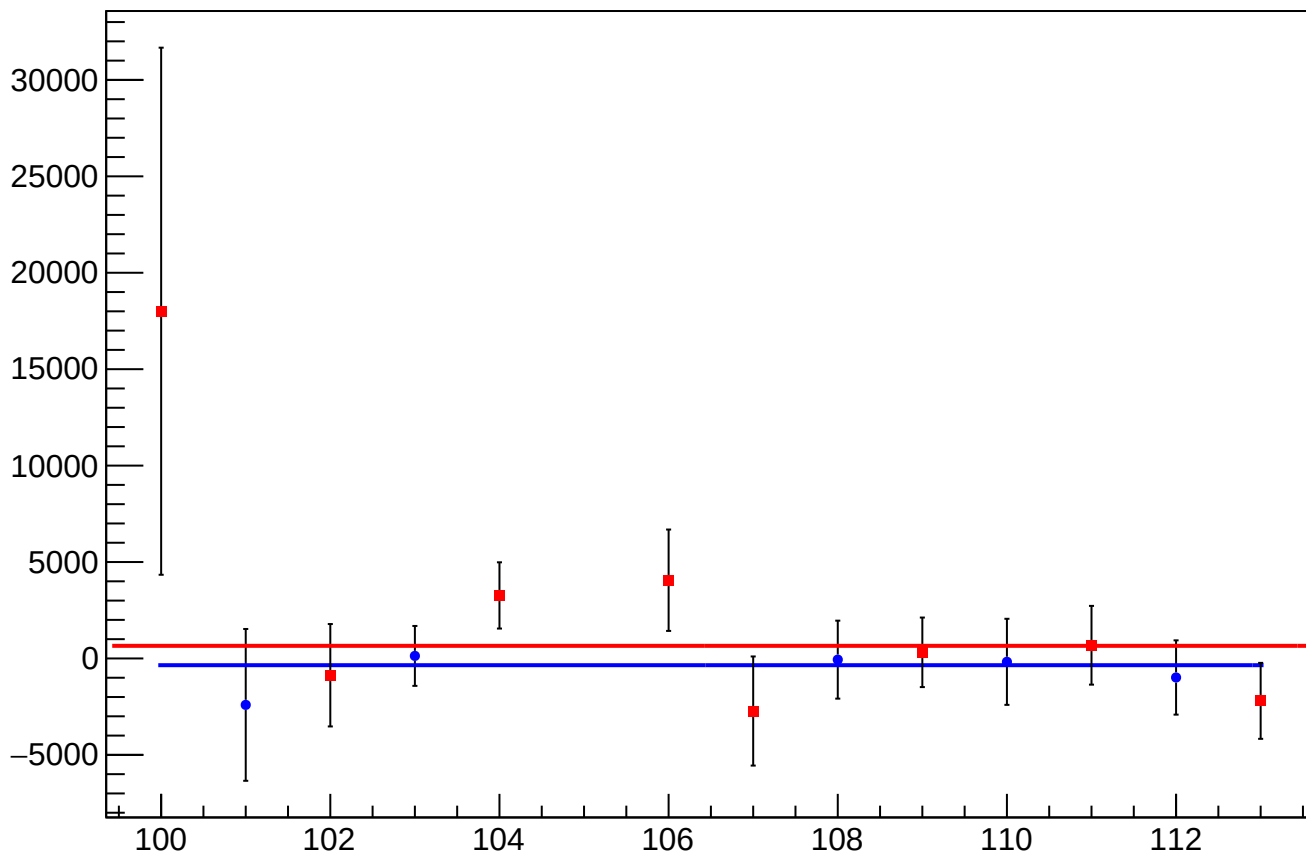
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 416.764 $\pm$ 0.144  $\chi^2$ /NDF: 3105752.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -349.549+/-915.113  $\chi^2/\text{NDF}$ : 0.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 654.623+/-800.366  $\chi^2/\text{NDF}$ : 9.5/7

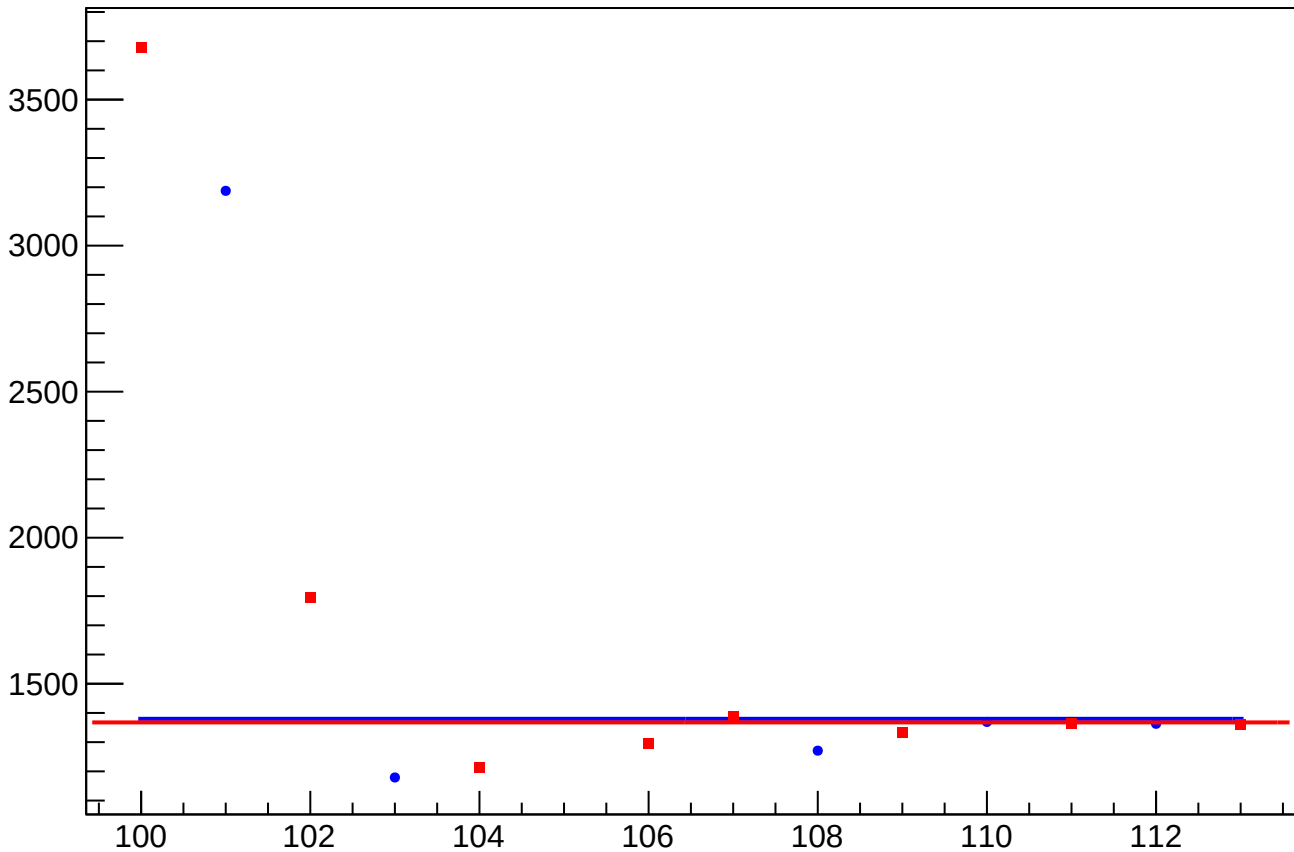
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 219.406+/-602.454  $\chi^2/\text{NDF}$ : 10.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1379.906 $\pm$ 0.647  $\chi^2$ /NDF: 461317.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

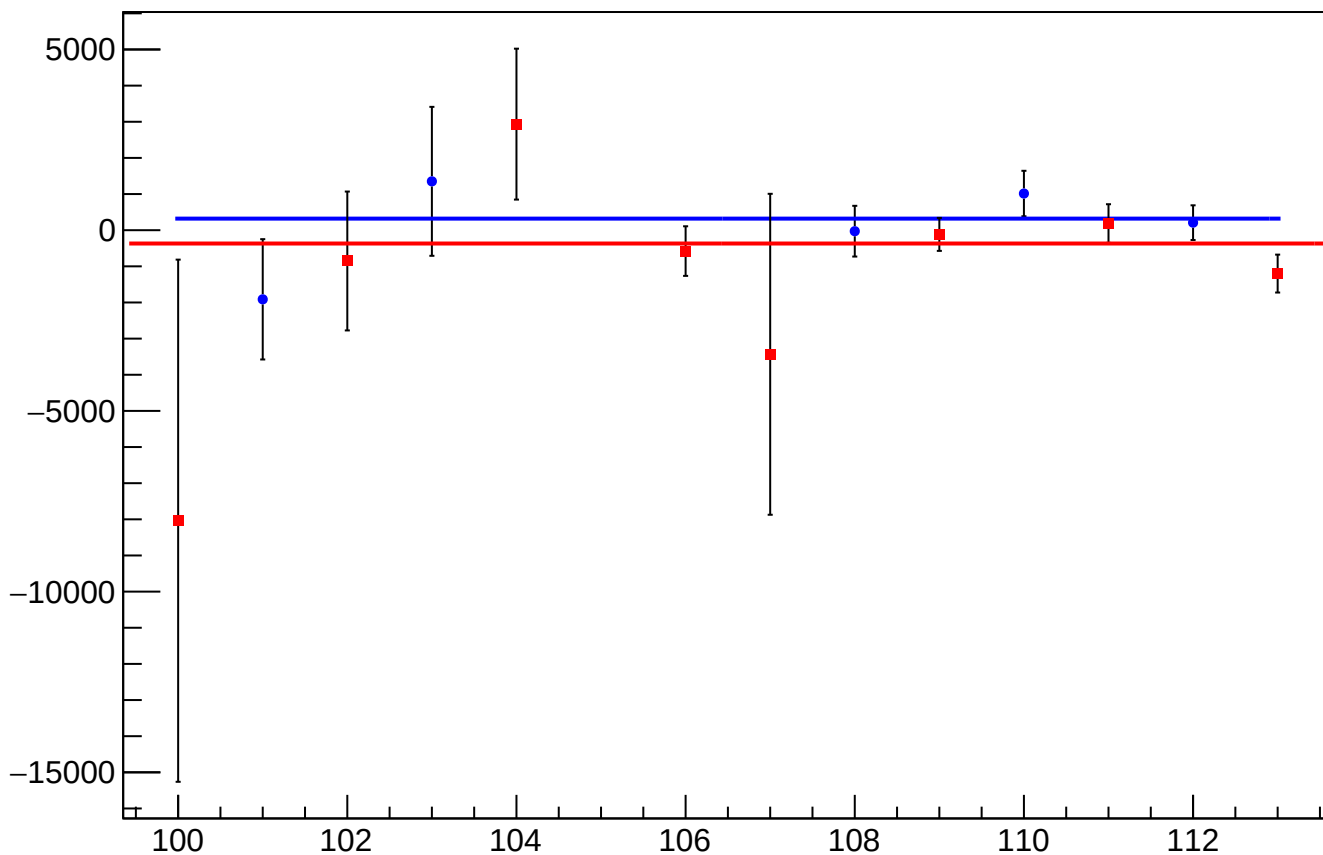
Right Out: 1367.613 $\pm$ 0.566  $\chi^2$ /NDF: 127287.8/7

All: 1372.941 $\pm$ 0.426  $\chi^2$ /NDF: 588810.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 320.267+/-324.441  $\chi^2/\text{NDF}$ : 3.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -368.626+/-261.398  $\chi^2/\text{NDF}$ : 8.2/7

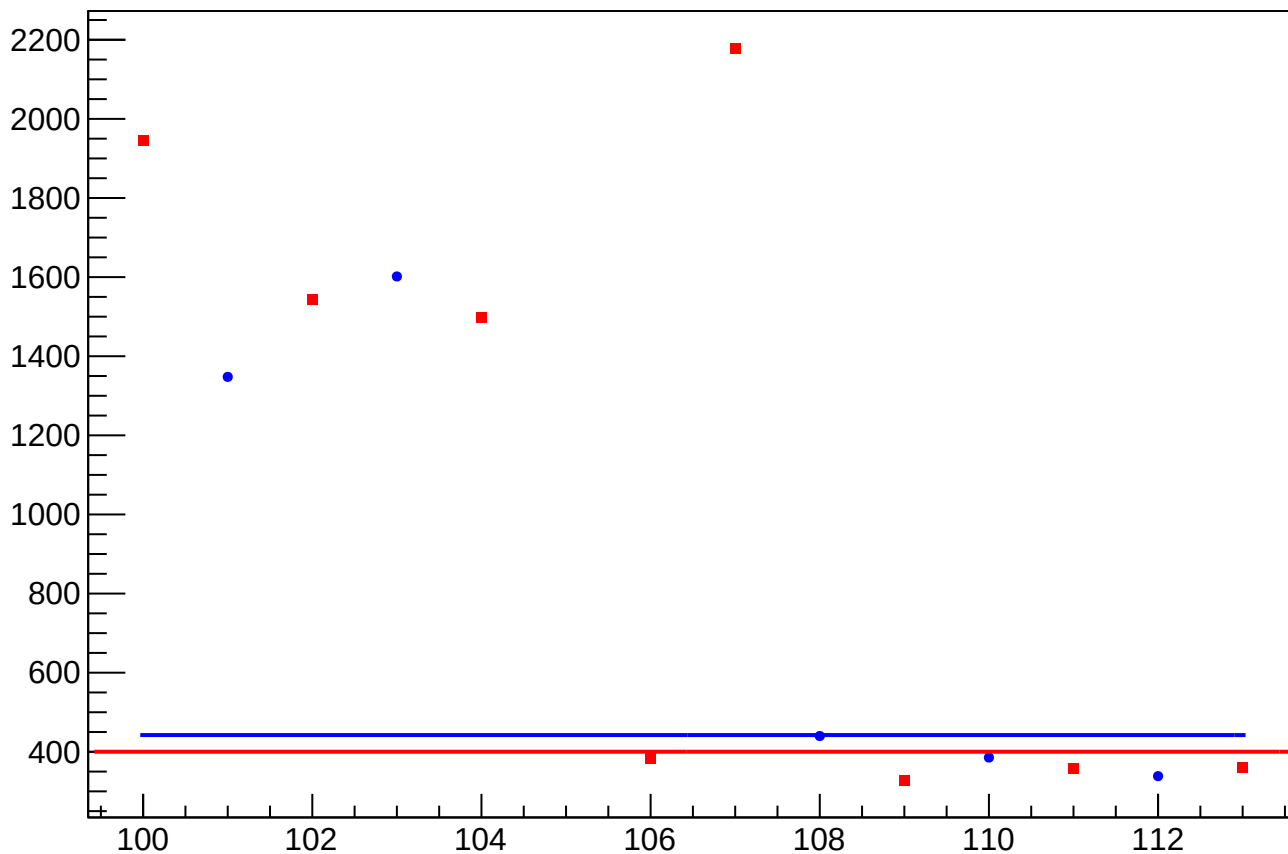
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -97.465+/-203.552  $\chi^2/\text{NDF}$ : 14.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 442.311+/-0.229  $\chi^2/\text{NDF}$ : 1335076.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 400.178+/-0.185  $\chi^2/\text{NDF}$ : 1750229.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

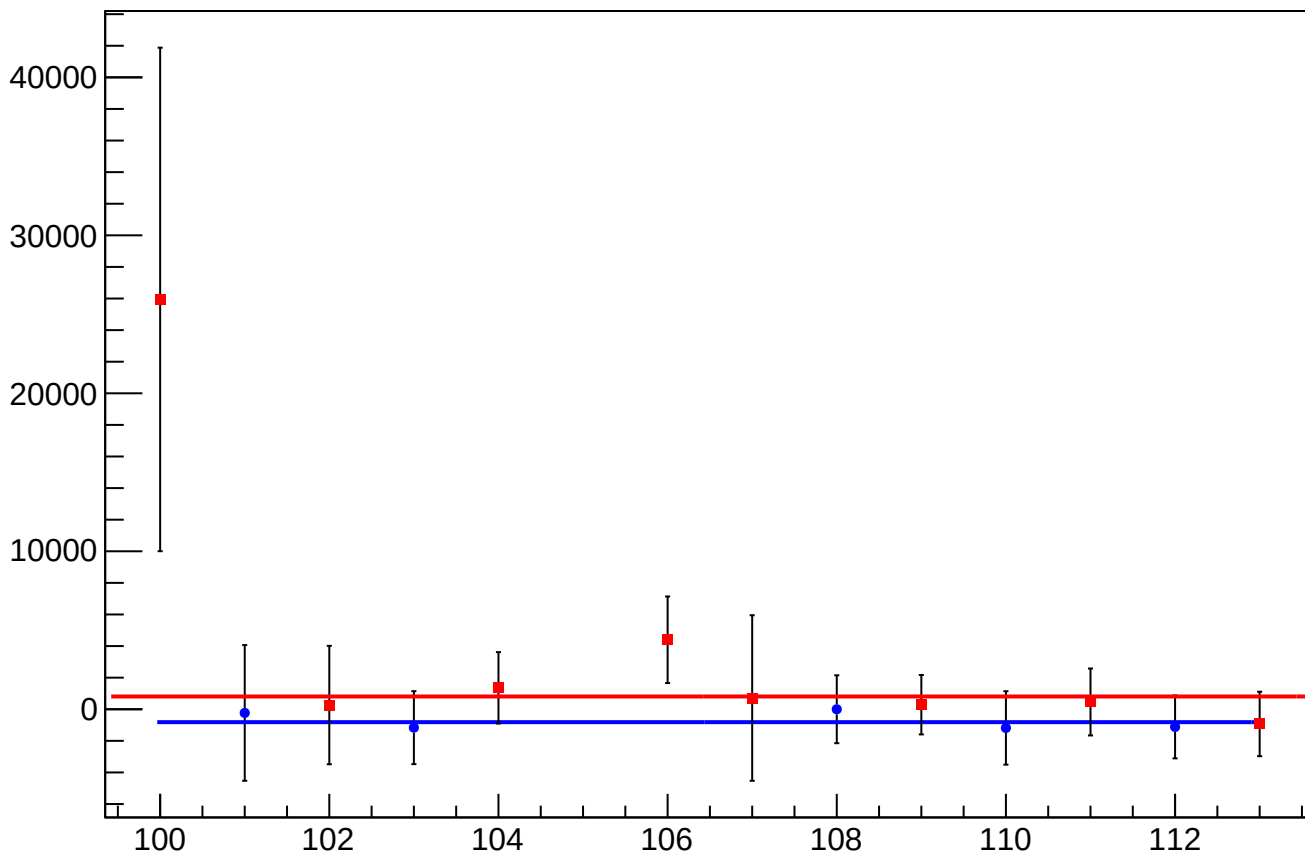
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 416.762+/-0.144  $\chi^2/\text{NDF}$ : 3105758.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -817.027+/-1056.639  $\chi^2/\text{NDF}$ : 0.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 808.483+/-918.280  $\chi^2/\text{NDF}$ : 5.1/7

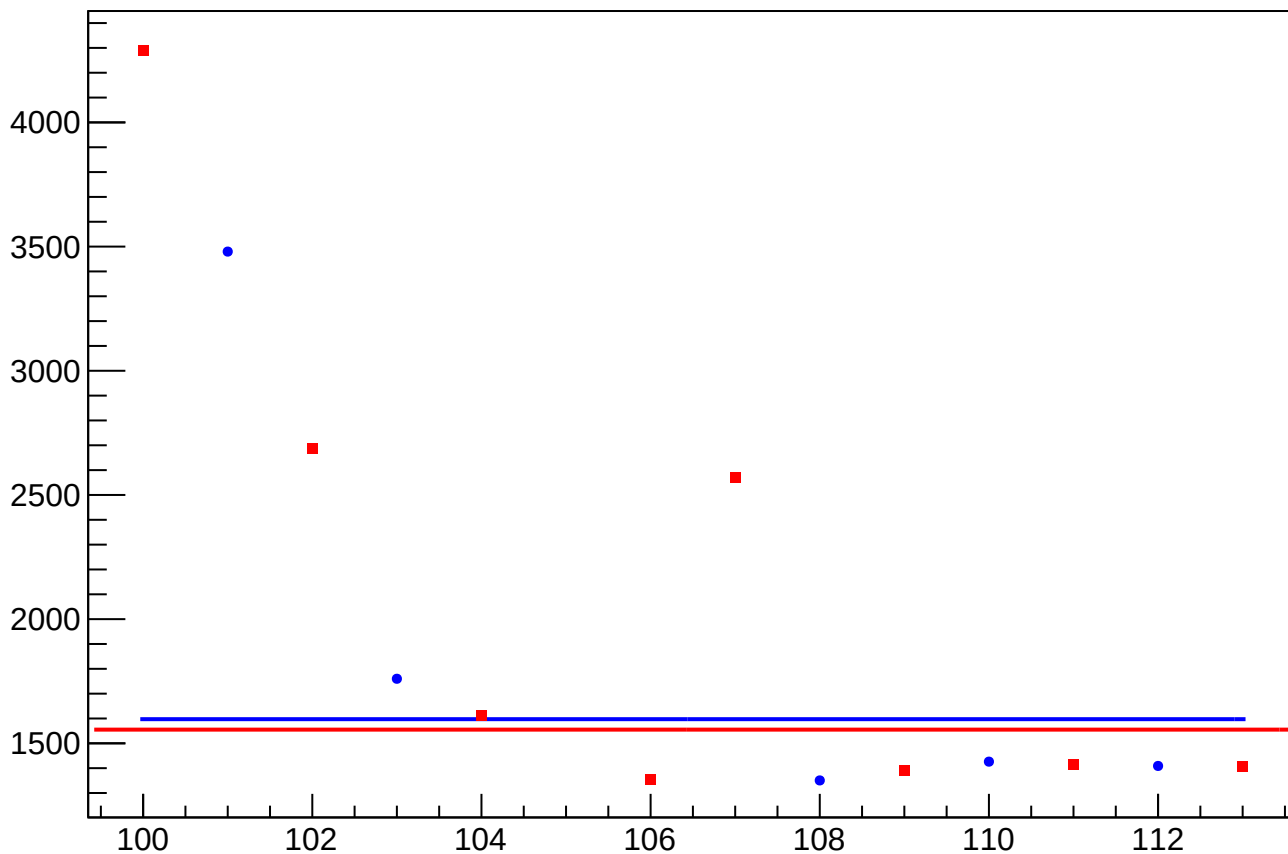
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 109.052+/-693.113  $\chi^2/\text{NDF}$ : 6.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1597.255+/-0.747  $\chi^2/\text{NDF}$ : 449158.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

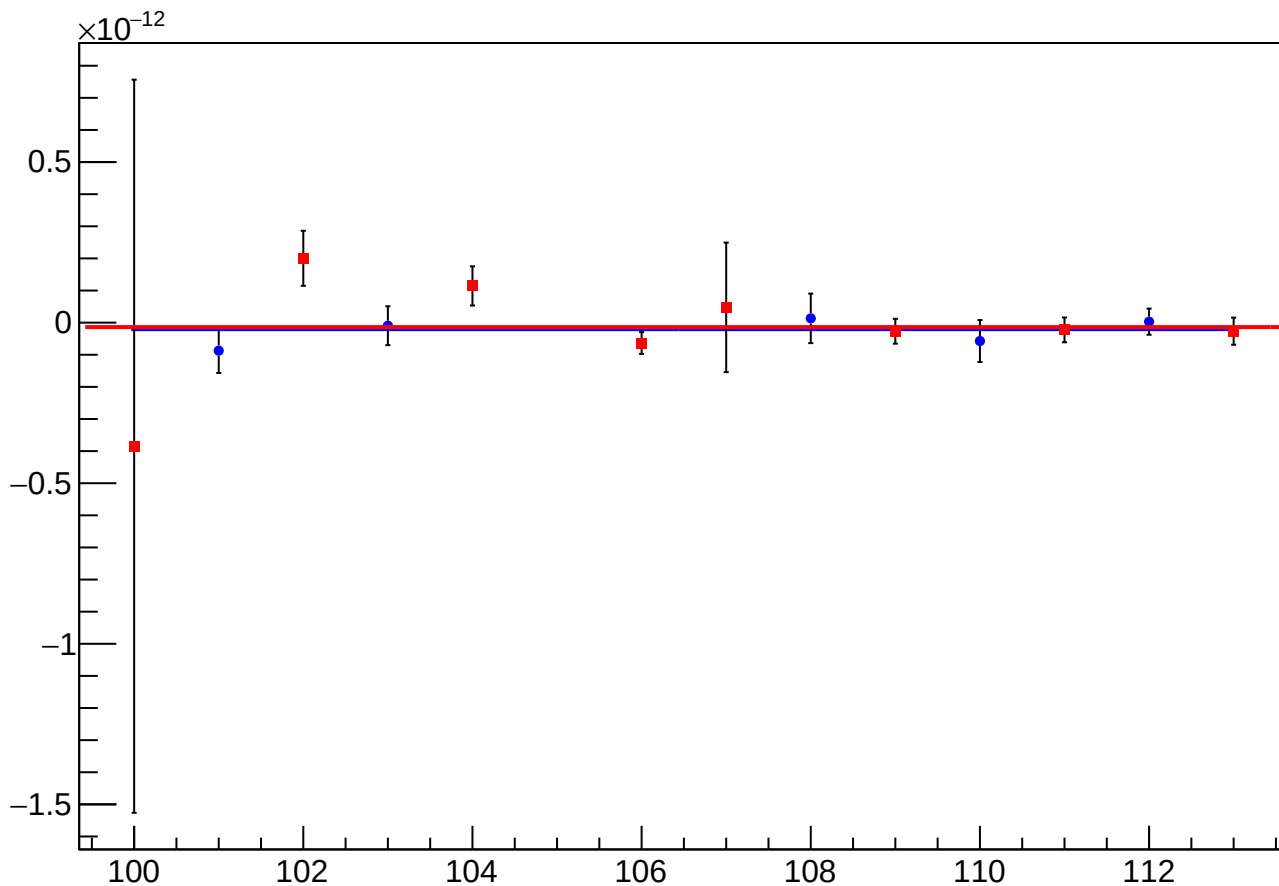
Right Out: 1555.172+/-0.649  $\chi^2/\text{NDF}$ : 362313.6/7

All: 1573.279+/-0.490  $\chi^2/\text{NDF}$ : 813279.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.2/7

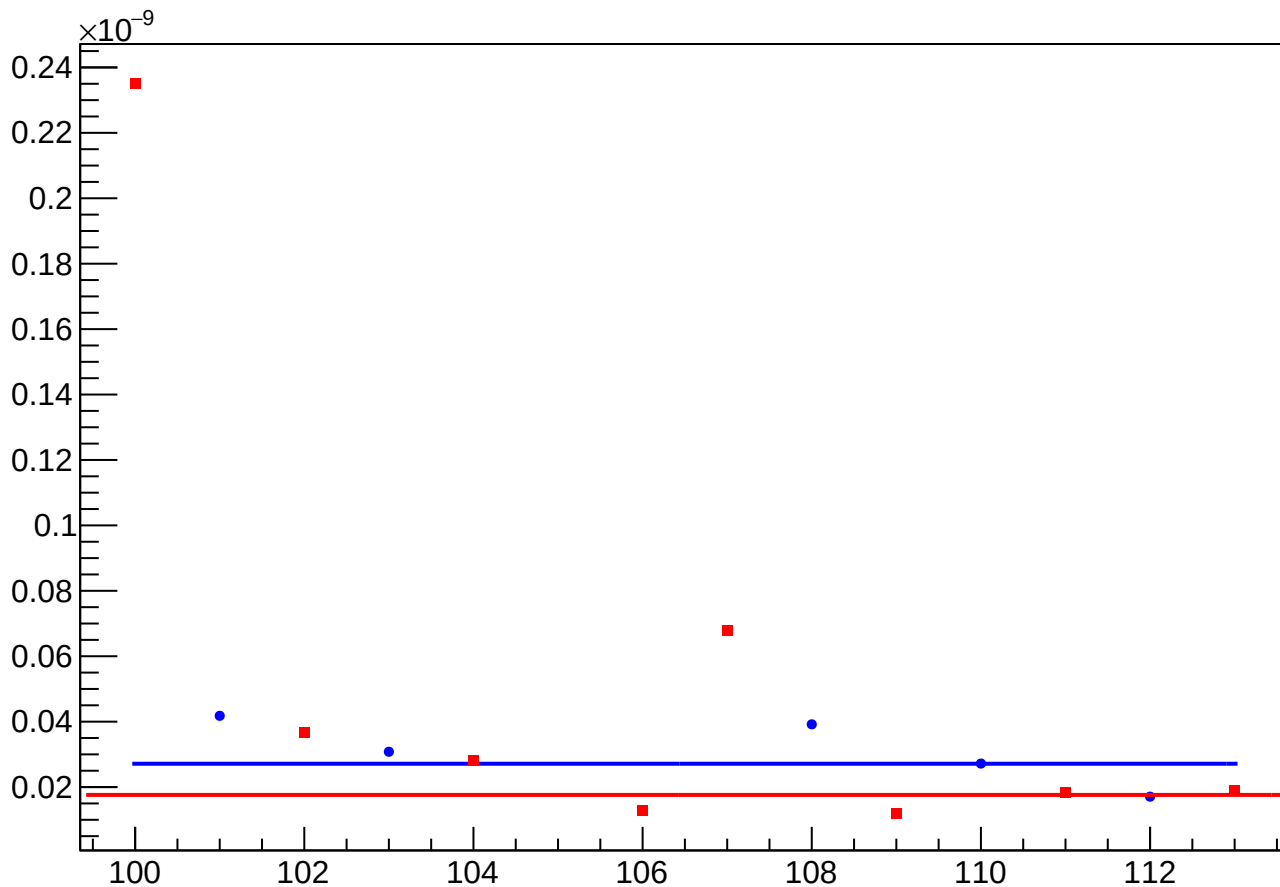
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 267432.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 443623.6/7

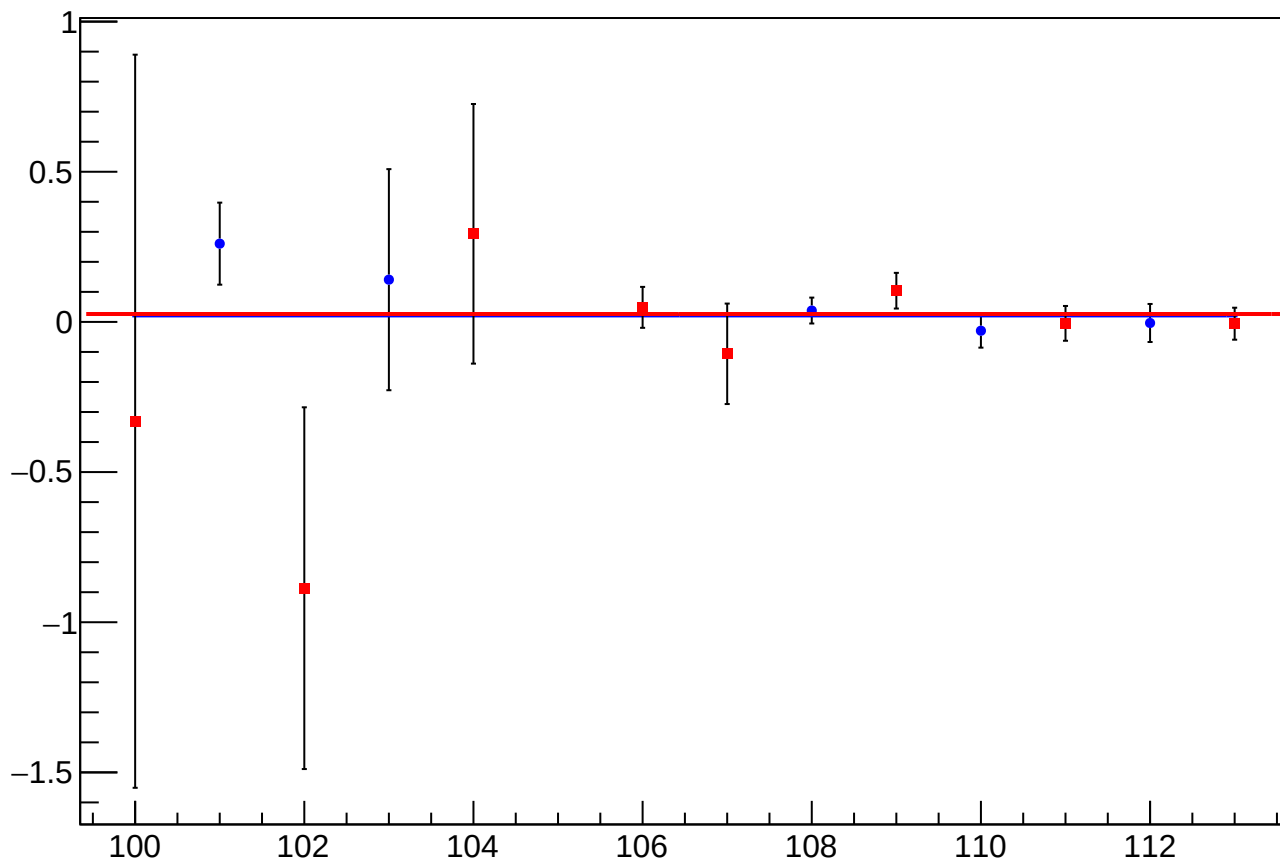
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 895489.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.022 $\pm$ 0.029  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.026 $\pm$ 0.029  $\chi^2$ /NDF: 5.9/7

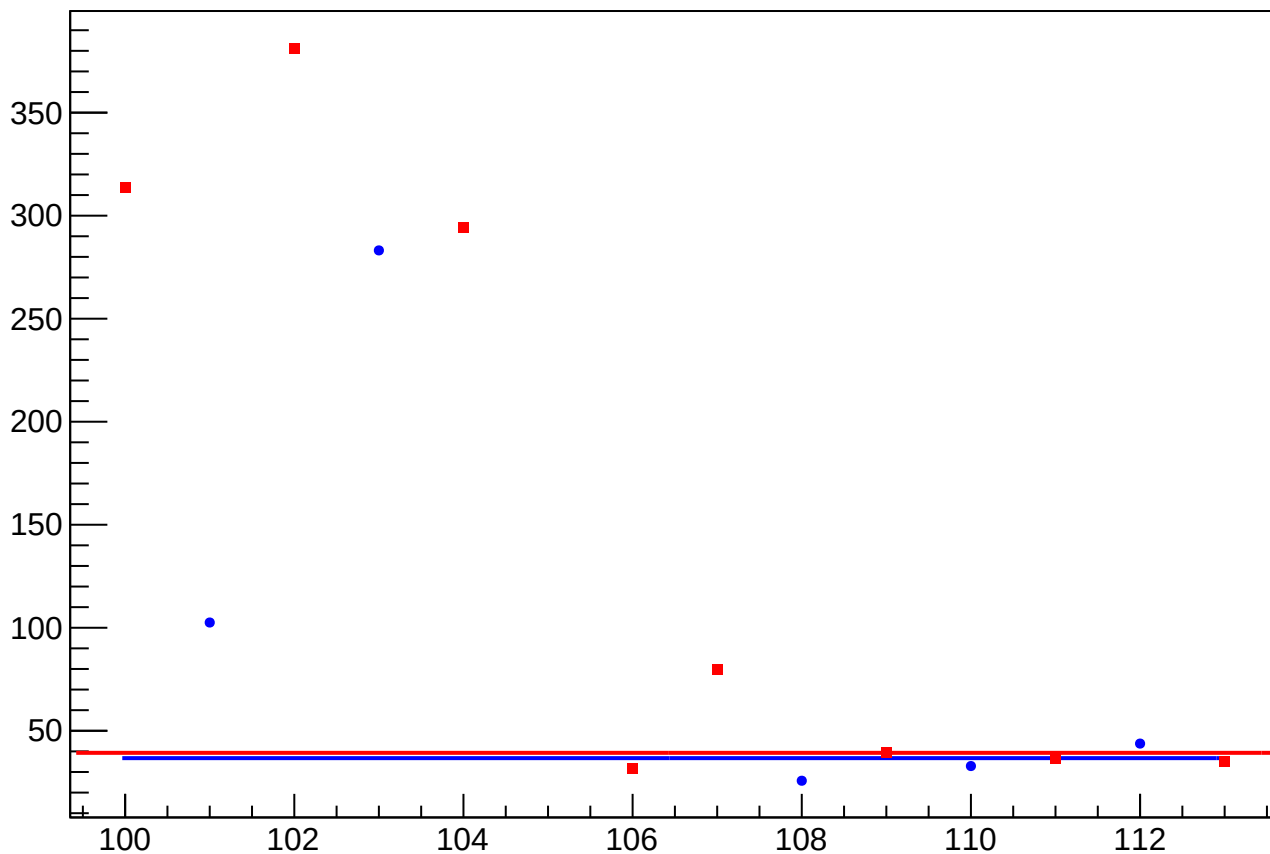
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.021  $\chi^2$ /NDF: 10.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 36.720 $\pm$ 0.021  $\chi^2$ /NDF: 1524187.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 39.301 $\pm$ 0.020  $\chi^2$ /NDF: 1599394.5/7

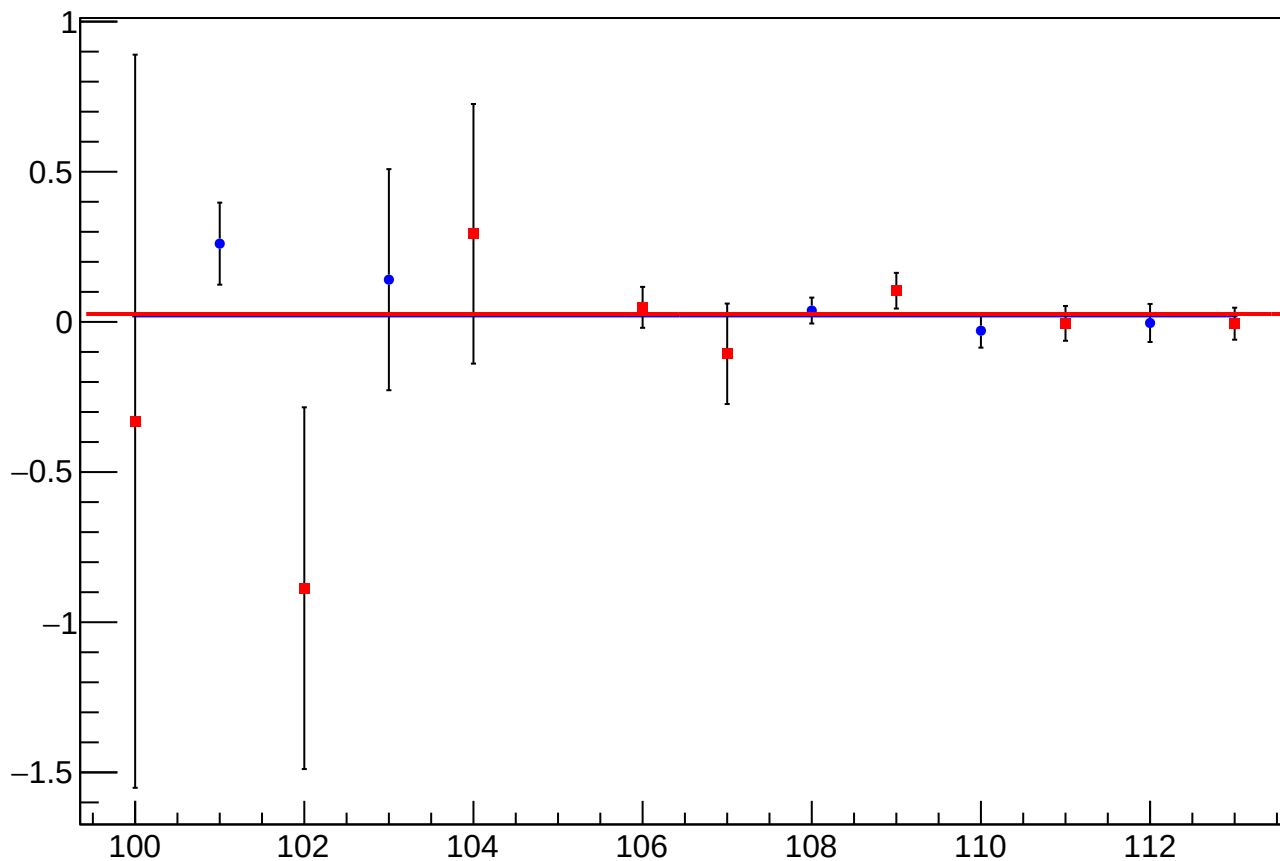
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 38.027 $\pm$ 0.015  $\chi^2$ /NDF: 3131431.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.022 $\pm$ 0.029  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.026 $\pm$ 0.029  $\chi^2$ /NDF: 5.9/7

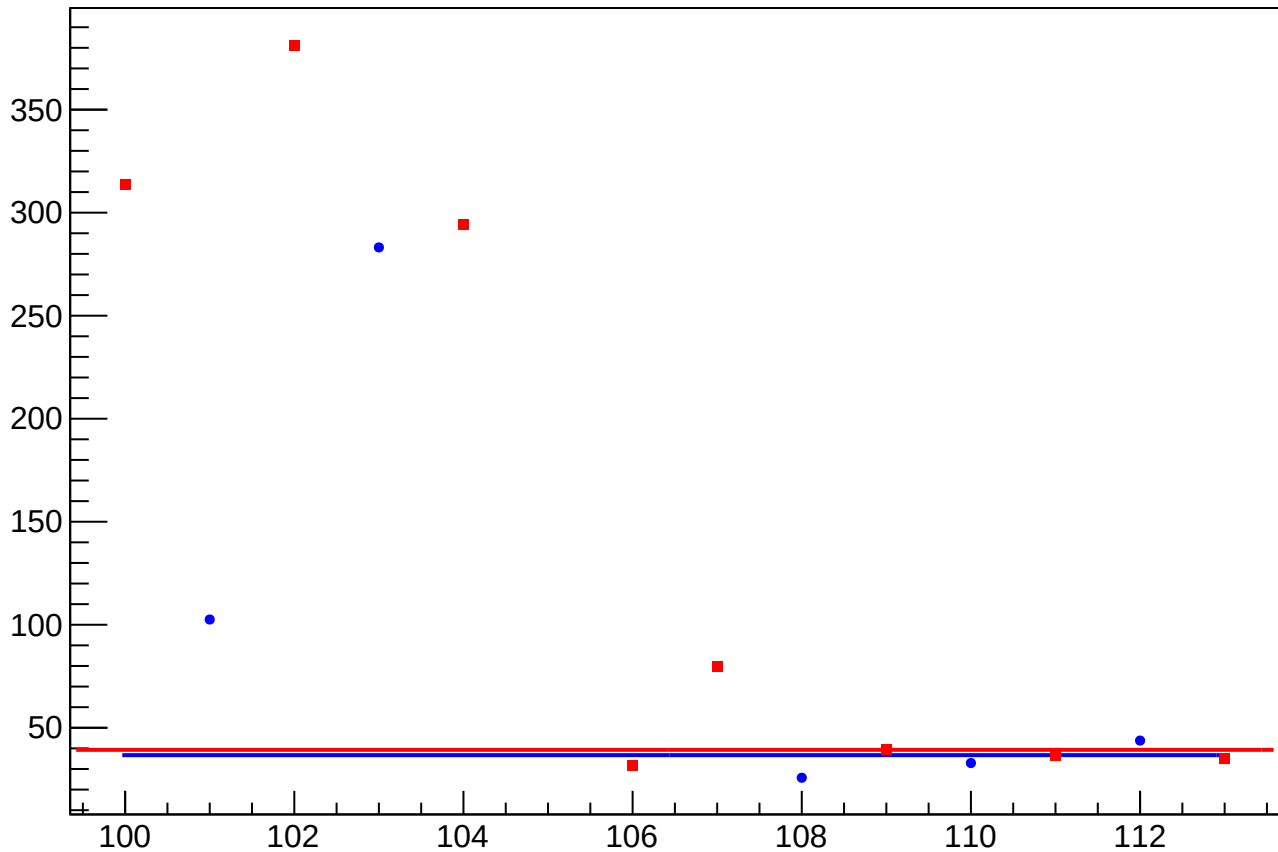
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.021  $\chi^2$ /NDF: 10.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 36.720+/-0.021  $\chi^2/\text{NDF}$ : 1524187.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.301+/-0.020  $\chi^2/\text{NDF}$ : 1599394.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

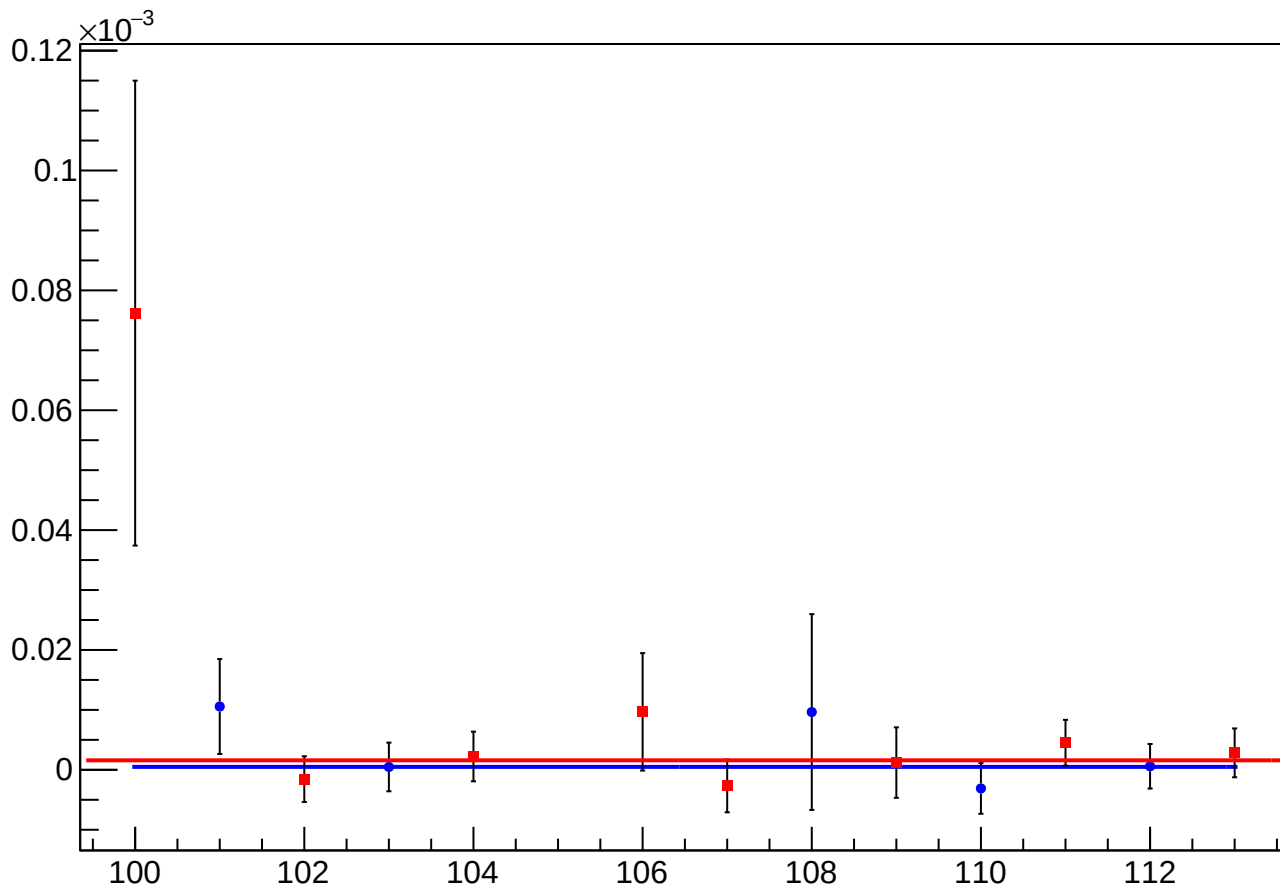
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.027+/-0.015  $\chi^2/\text{NDF}$ : 3131431.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.7/7

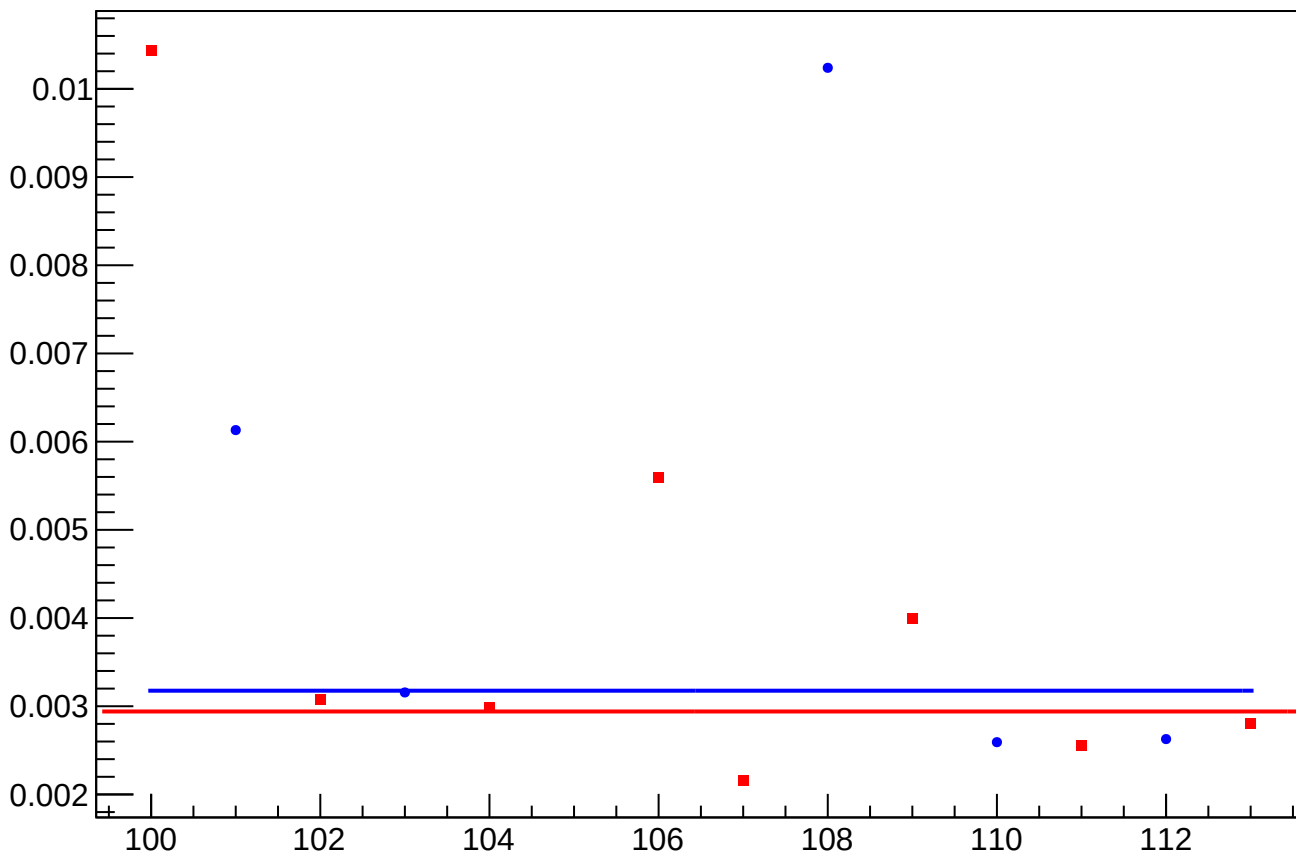
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 733609.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 373938.5/7

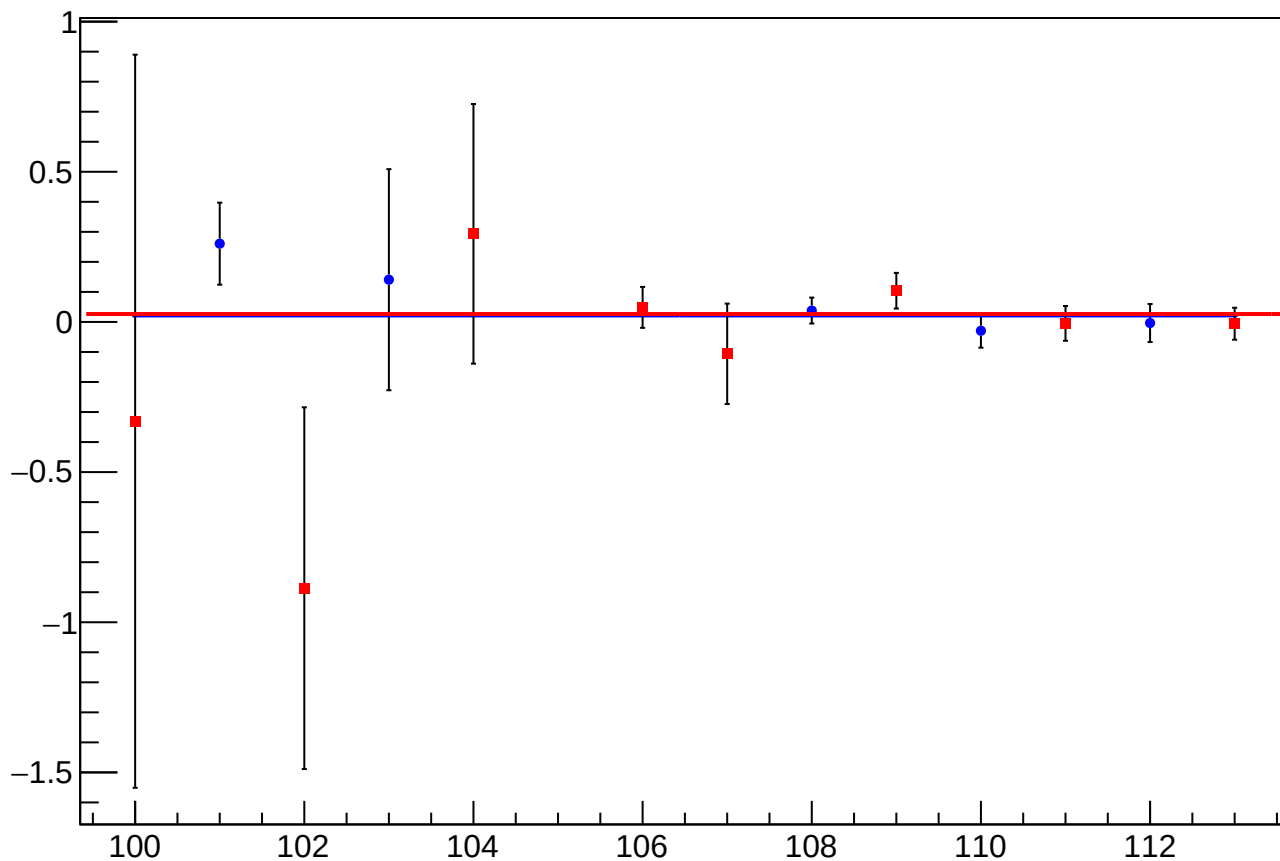
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1122027.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.022 $\pm$ 0.029  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.026 $\pm$ 0.029  $\chi^2$ /NDF: 5.9/7

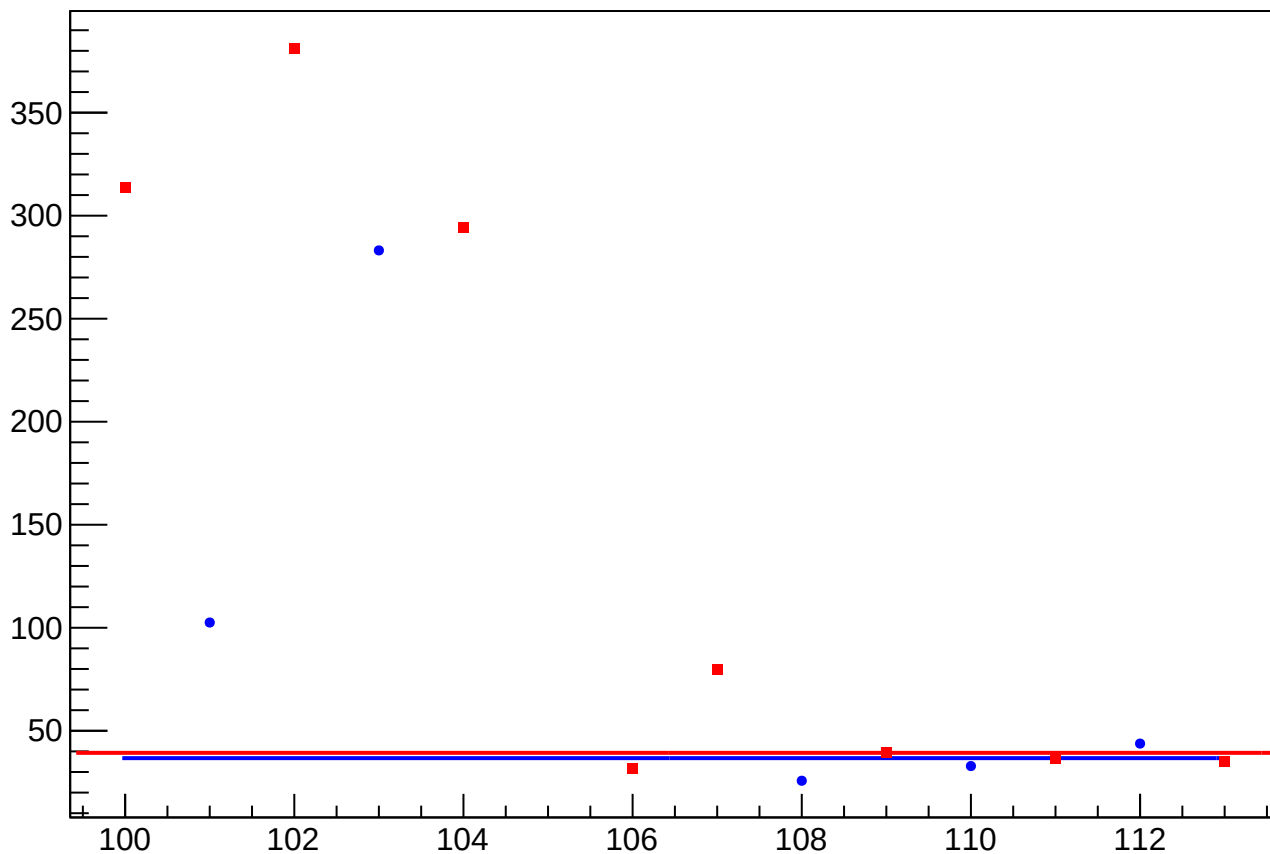
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.021  $\chi^2$ /NDF: 10.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 36.723+/-0.021  $\chi^2/\text{NDF}$ : 1524099.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.301+/-0.020  $\chi^2/\text{NDF}$ : 1599383.5/7

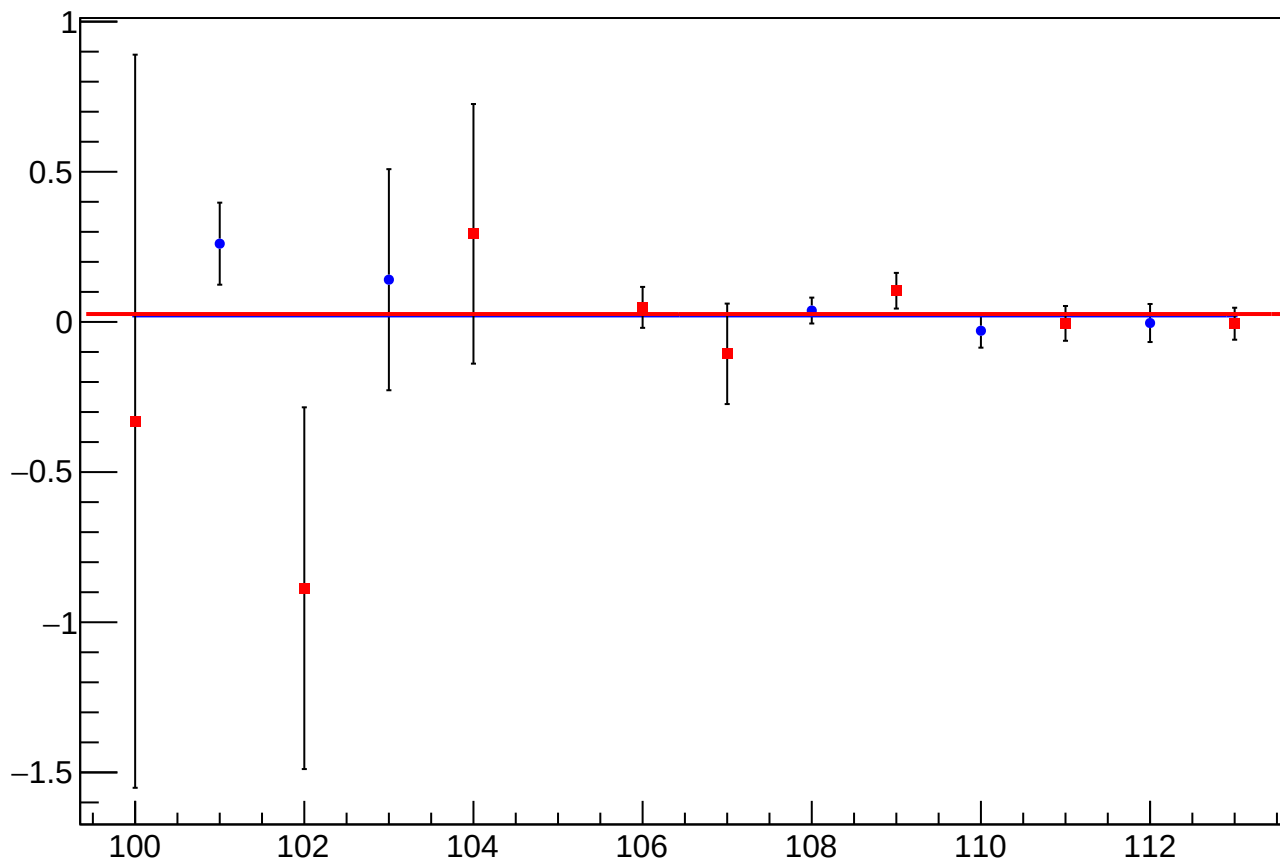
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.028+/-0.015  $\chi^2/\text{NDF}$ : 3131319.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.022 $\pm$ 0.029  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.026 $\pm$ 0.029  $\chi^2$ /NDF: 5.9/7

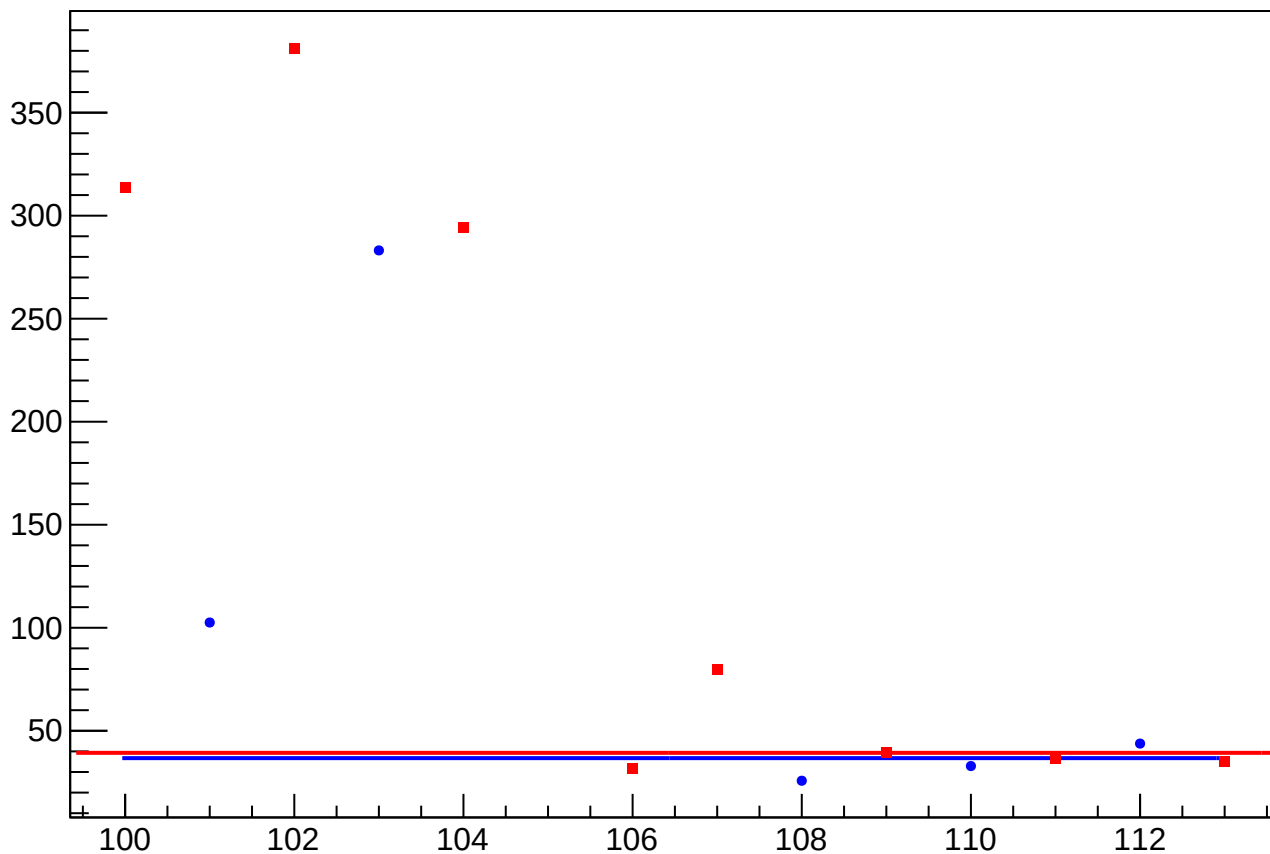
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.021  $\chi^2$ /NDF: 10.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 36.723+/-0.021  $\chi^2/\text{NDF}$ : 1524099.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.301+/-0.020  $\chi^2/\text{NDF}$ : 1599383.5/7

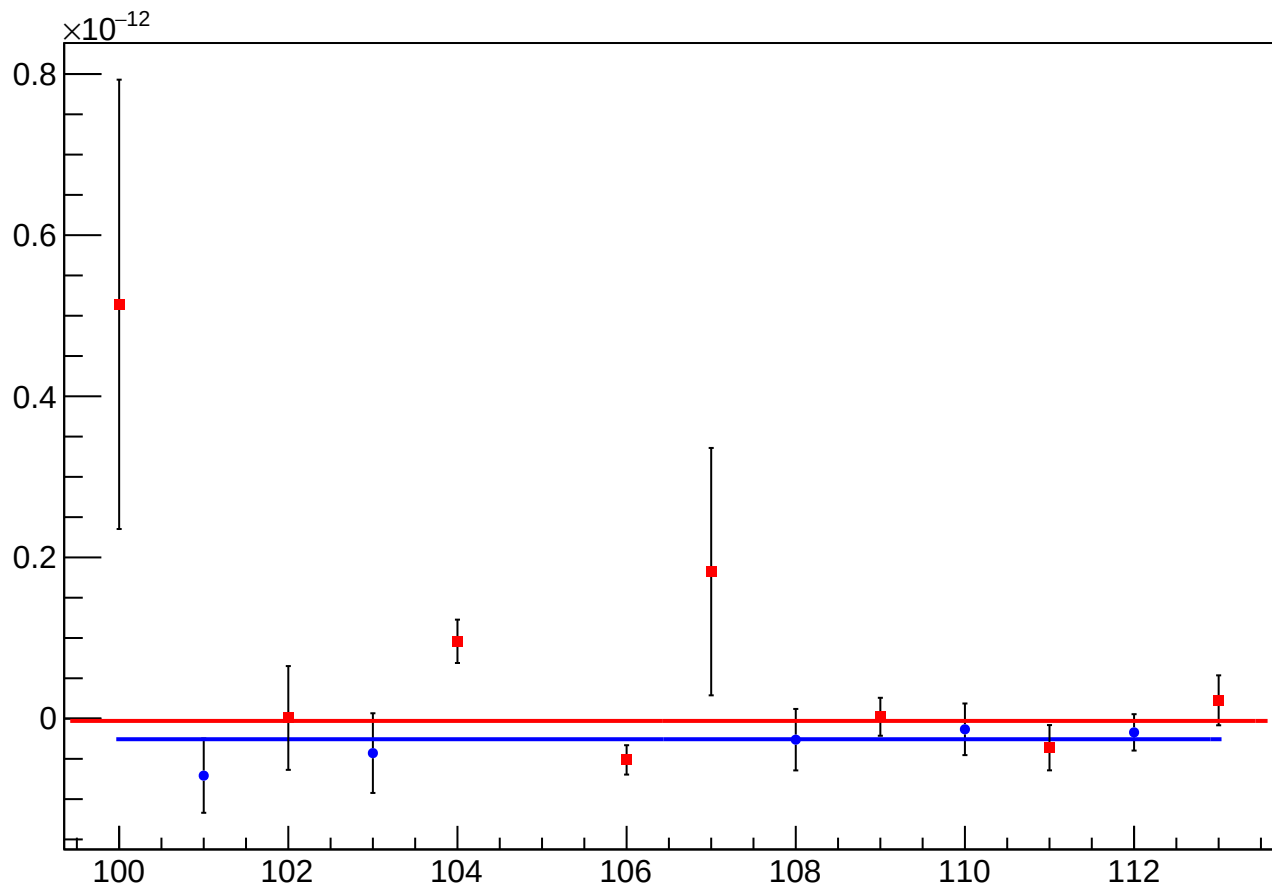
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.028+/-0.015  $\chi^2/\text{NDF}$ : 3131319.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 27.5/7

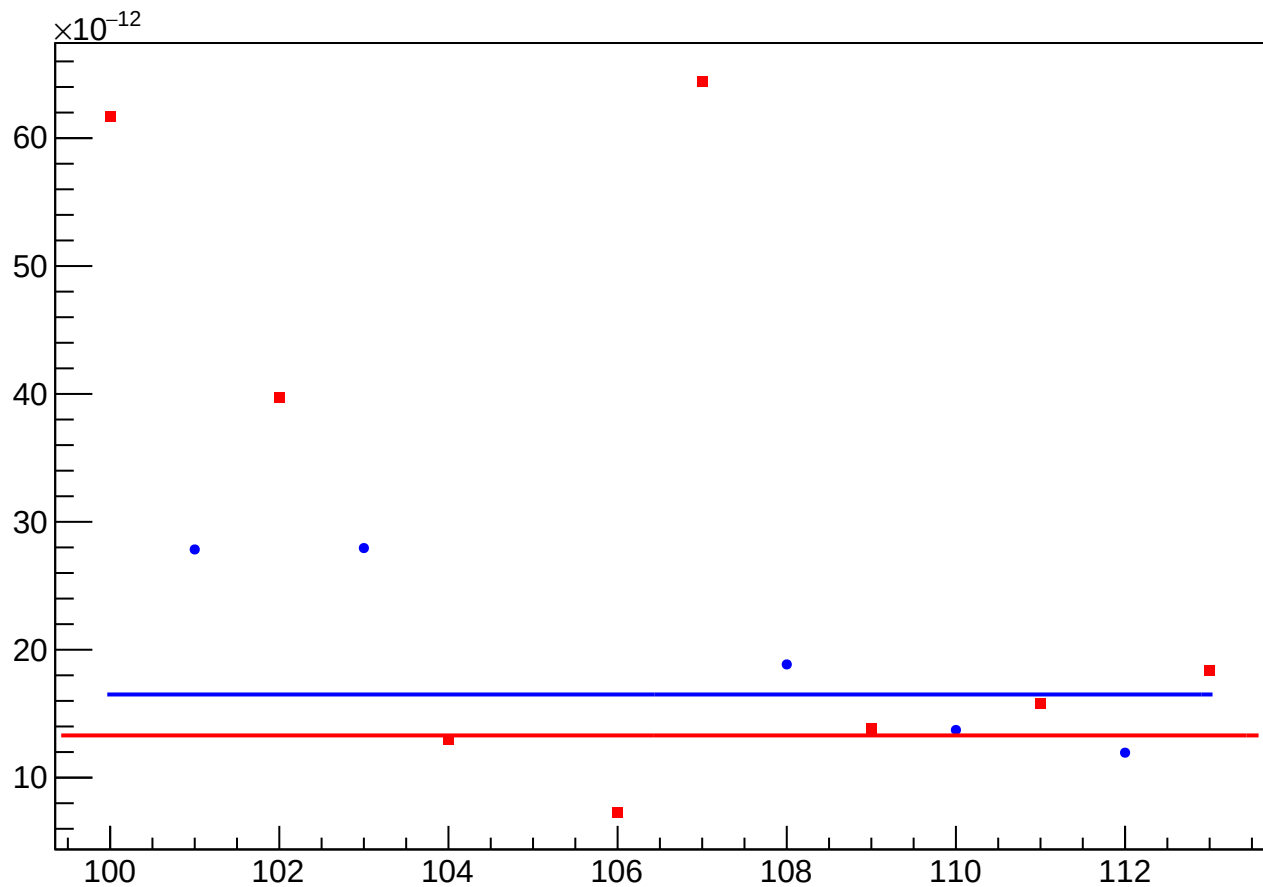
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 30.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 331880.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 909950.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

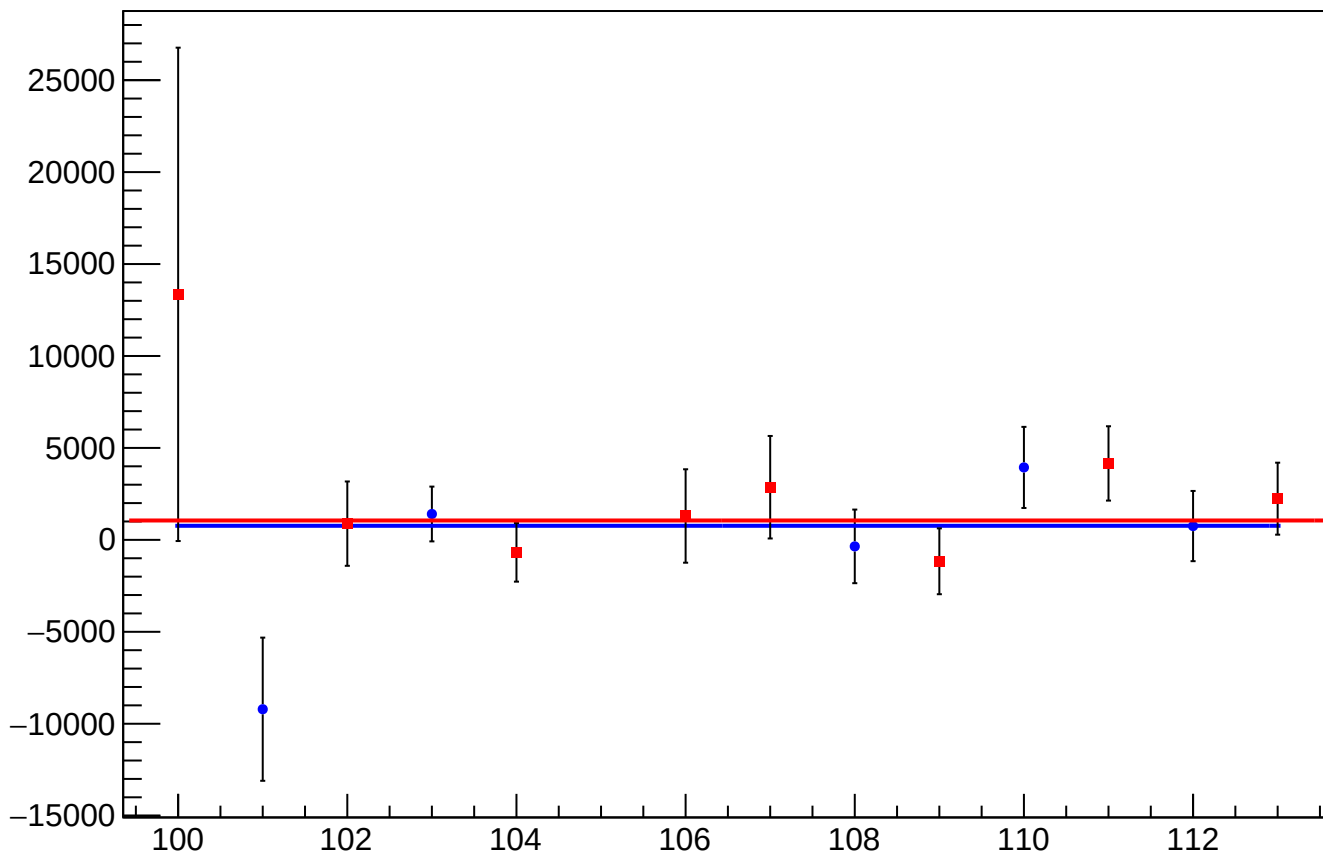
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1302880.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 765.583 $\pm$ 895.778  $\chi^2$ /NDF: 9.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1054.210 $\pm$ 769.011  $\chi^2$ /NDF: 6.7/7

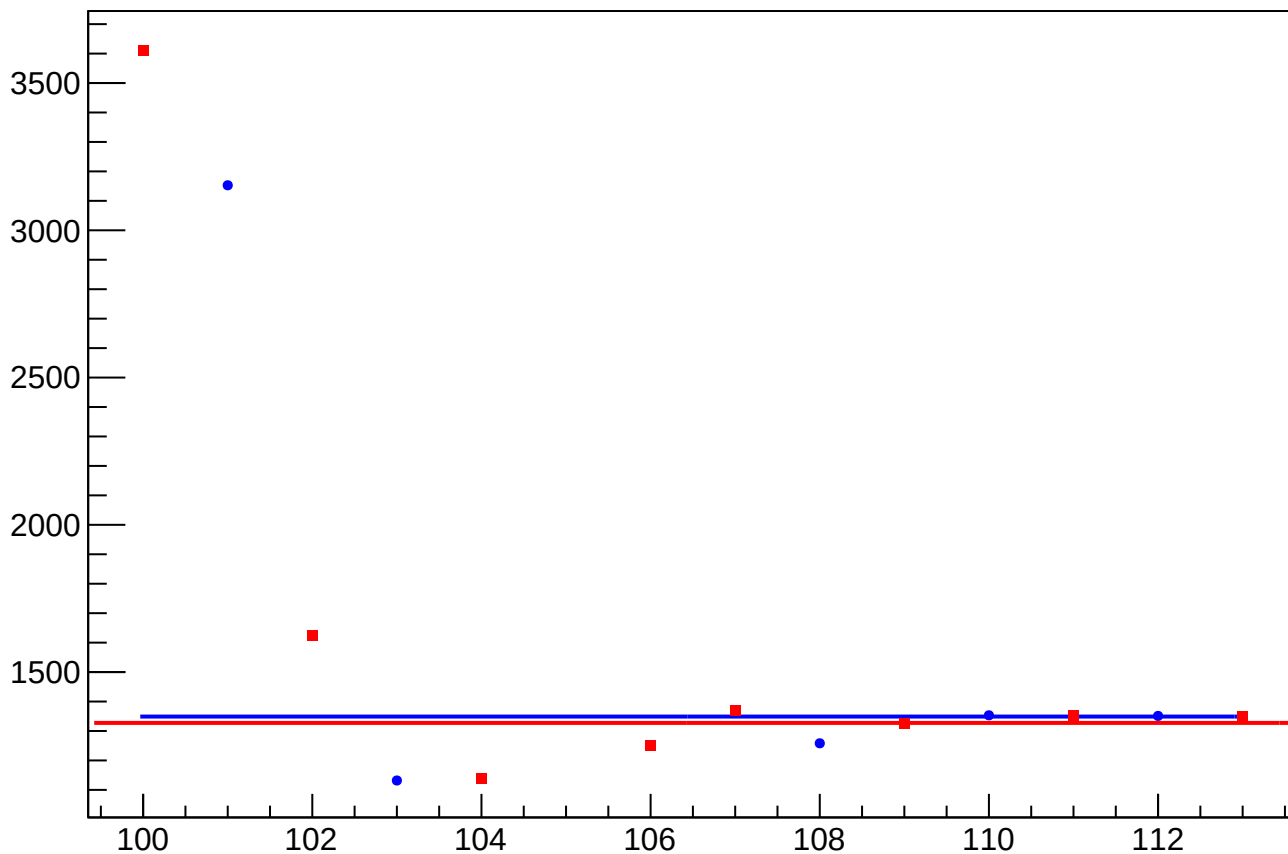
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 931.747 $\pm$ 583.490  $\chi^2$ /NDF: 15.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 1348.976 $\pm$ 0.633  $\chi^2$ /NDF: 476000.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1327.452 $\pm$ 0.544  $\chi^2$ /NDF: 121837.7/7

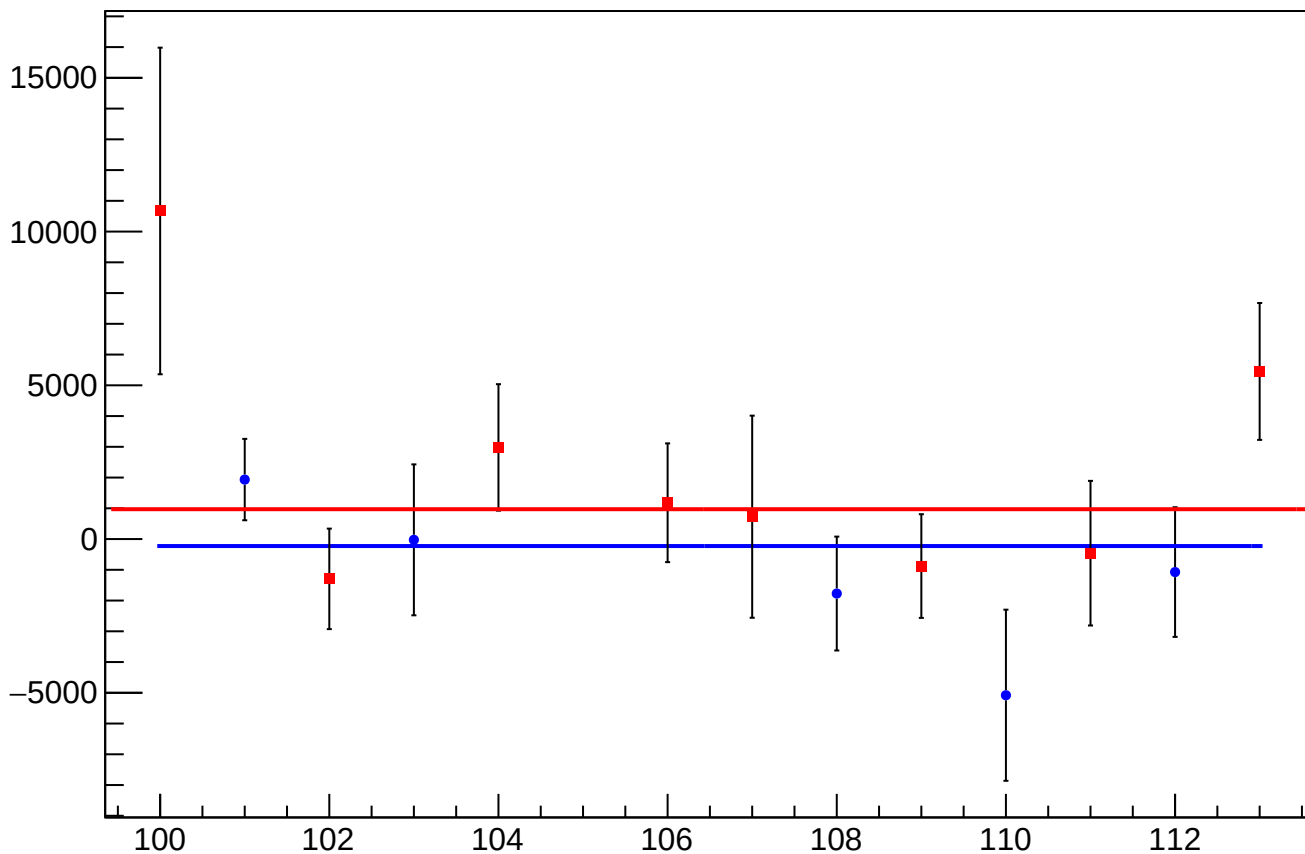
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1336.585 $\pm$ 0.413  $\chi^2$ /NDF: 598502.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_reg\_correction\_mean vs Slug



Right In: -227.352+/-850.449  $\chi^2/\text{NDF}$ : 6.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 970.620+/-757.814  $\chi^2/\text{NDF}$ : 11.9/7

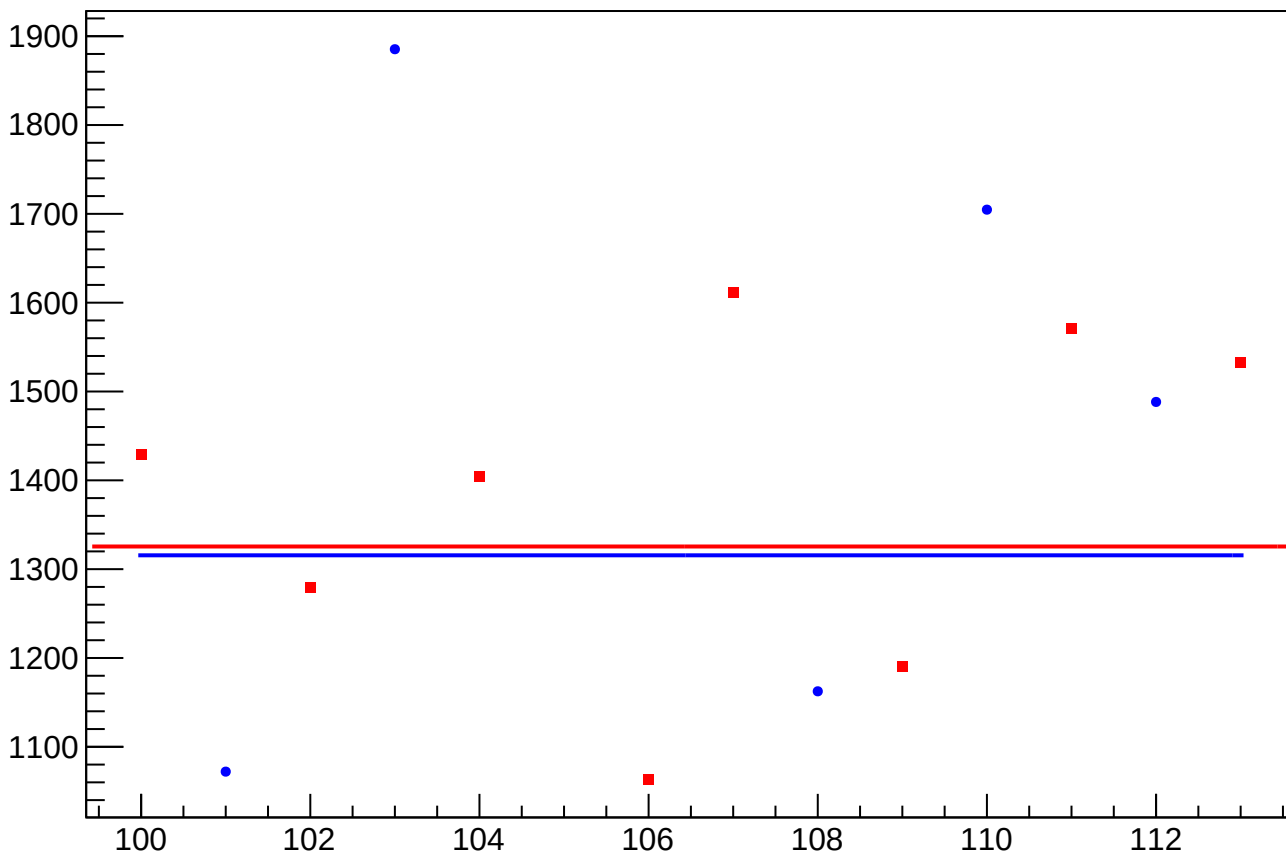
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 440.409+/-565.783  $\chi^2/\text{NDF}$ : 19.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_reg\_correction\_rms vs Slug



Right In: 1315.592 $\pm$ 0.601  $\chi^2$ /NDF: 241675.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1325.516 $\pm$ 0.536  $\chi^2$ /NDF: 109104.6/7

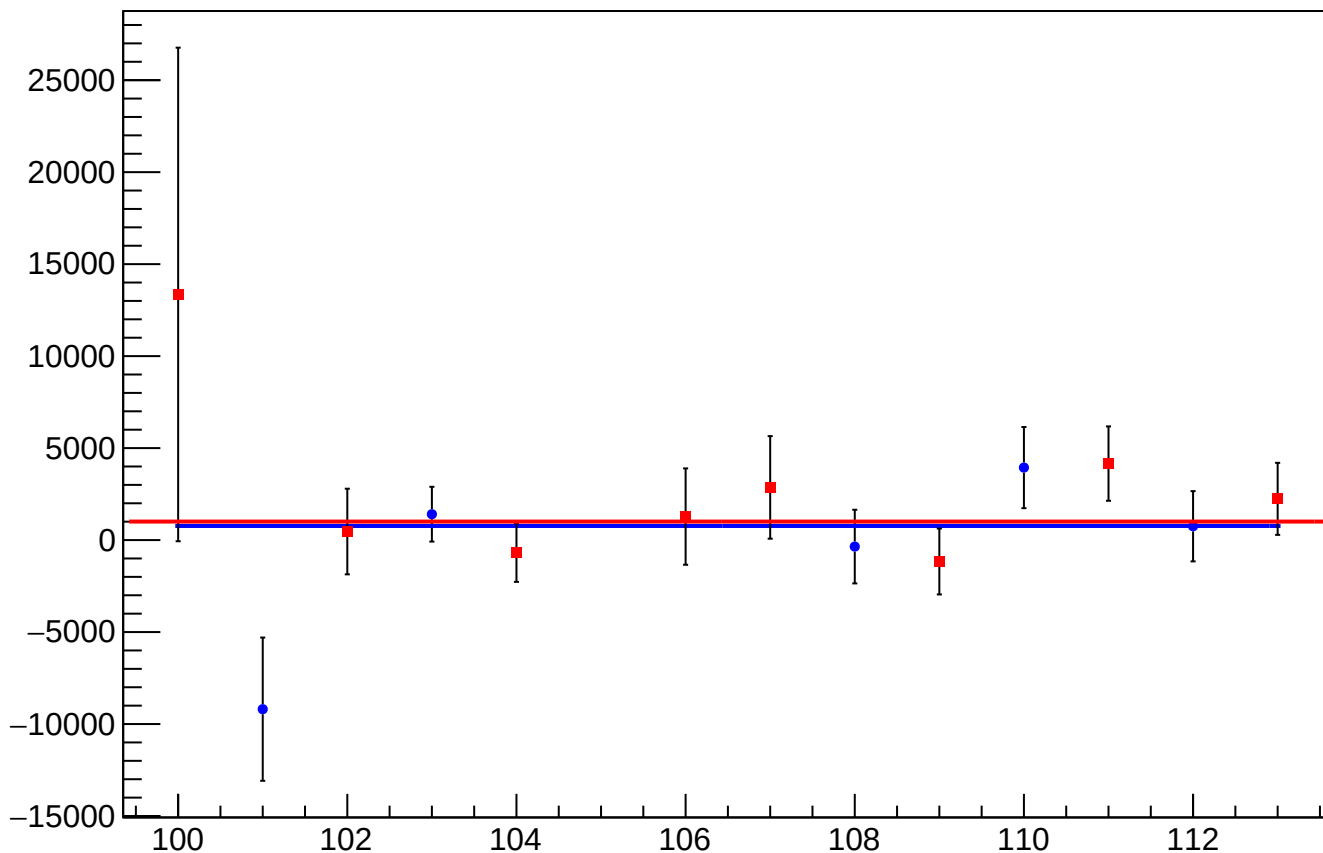
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1321.124 $\pm$ 0.400  $\chi^2$ /NDF: 350932.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 766.495 $\pm$ 895.778  $\chi^2$ /NDF: 9.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1006.047 $\pm$ 772.375  $\chi^2$ /NDF: 6.8/7

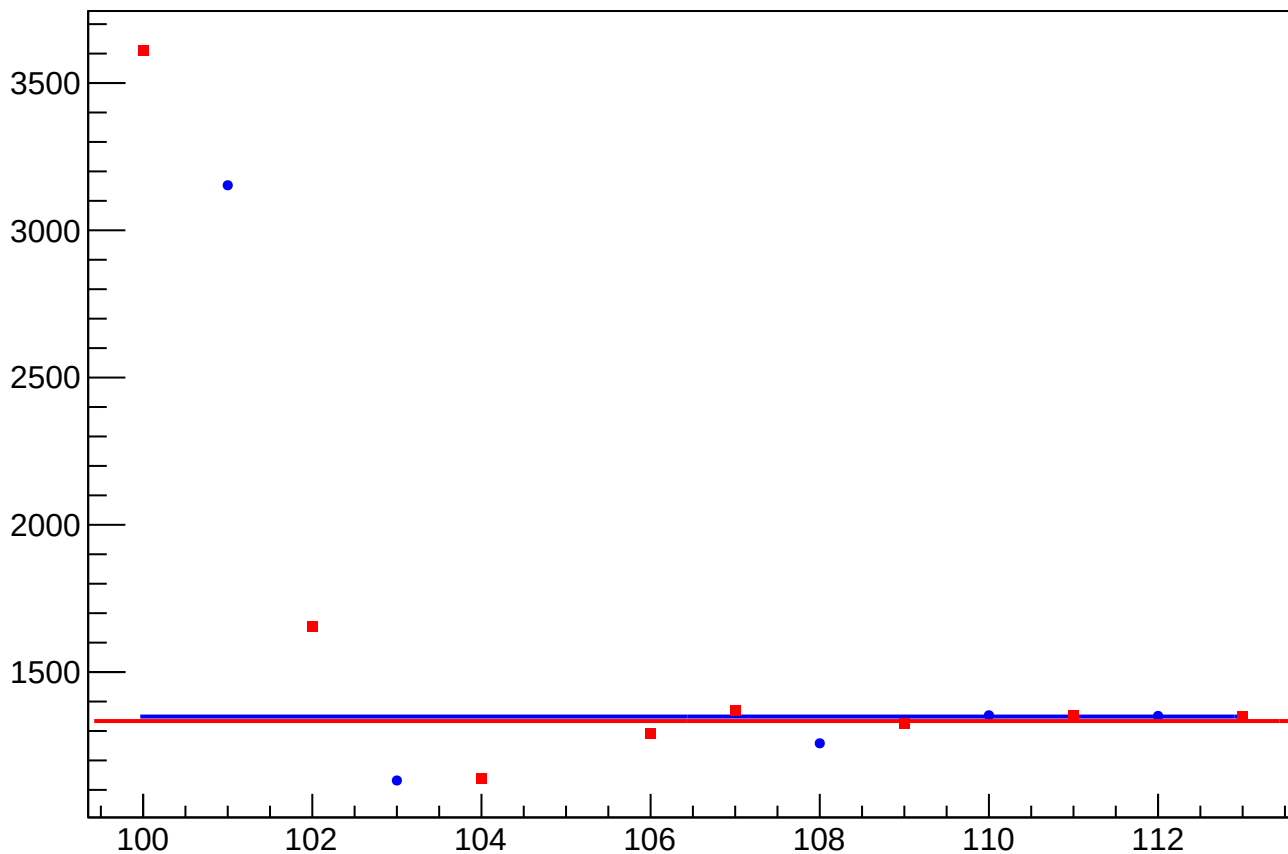
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 903.895 $\pm$ 584.955  $\chi^2$ /NDF: 15.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 1348.976 $\pm$ 0.633  $\chi^2$ /NDF: 476002.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1333.742 $\pm$ 0.546  $\chi^2$ /NDF: 126564.5/7

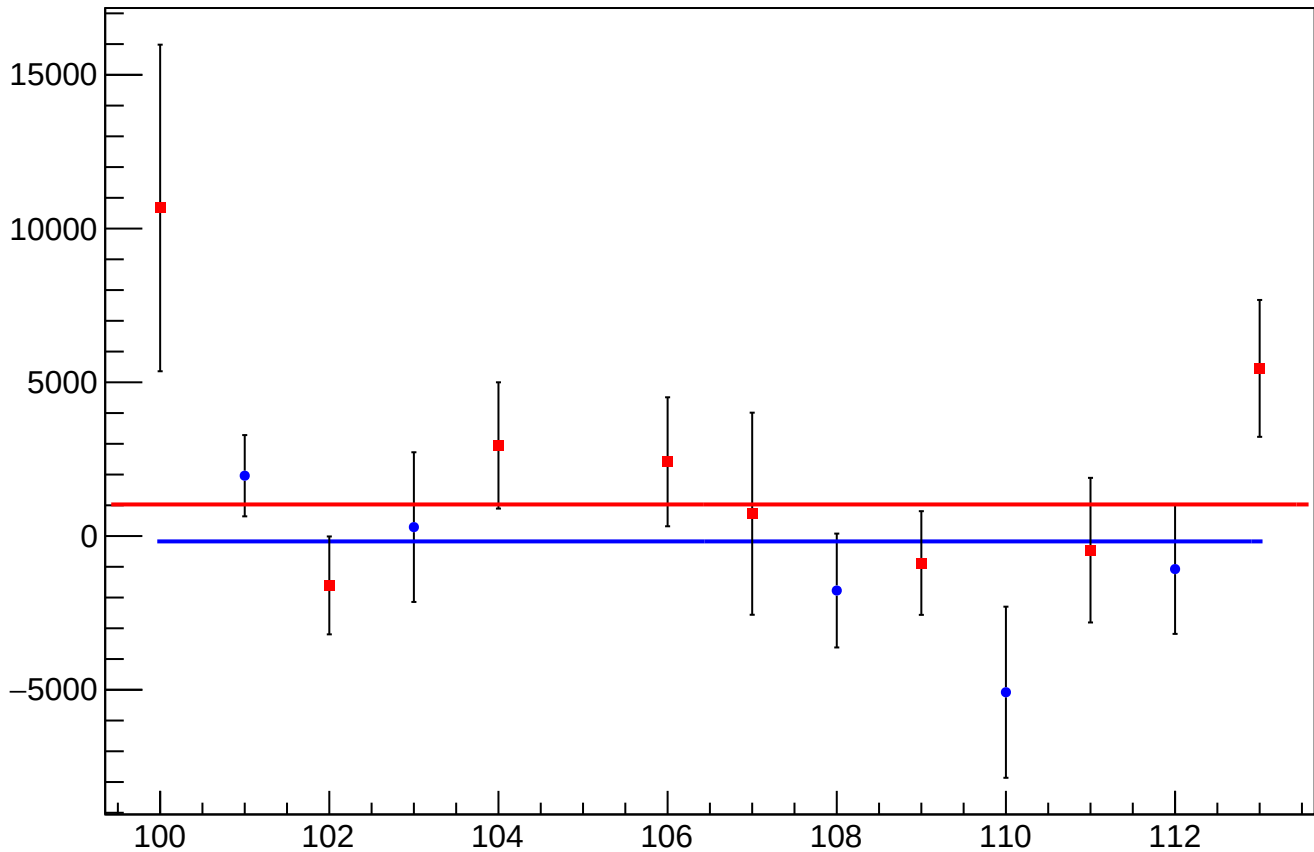
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1340.238 $\pm$ 0.414  $\chi^2$ /NDF: 602898.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_cor\_correction\_mean vs Slug



Right In: -174.146+/-849.047  $\chi^2/\text{NDF}$ : 6.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1027.624+/-762.202  $\chi^2/\text{NDF}$ : 13.0/7

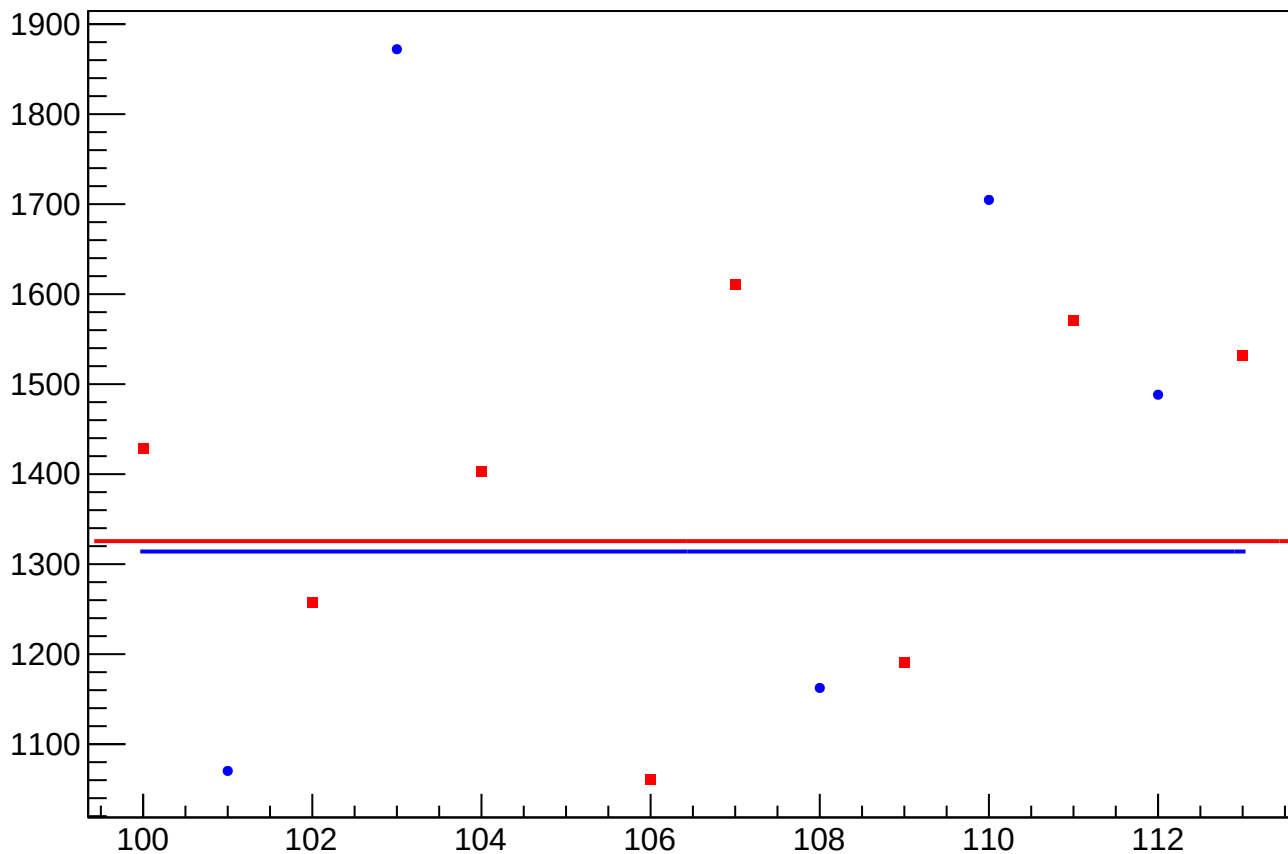
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 491.326+/-567.184  $\chi^2/\text{NDF}$ : 20.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_cor\_correction\_rms vs Slug



Right In: 1314.065+/-0.600  $\chi^2/\text{NDF}$ : 239656.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1325.579+/-0.539  $\chi^2/\text{NDF}$ : 106024.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

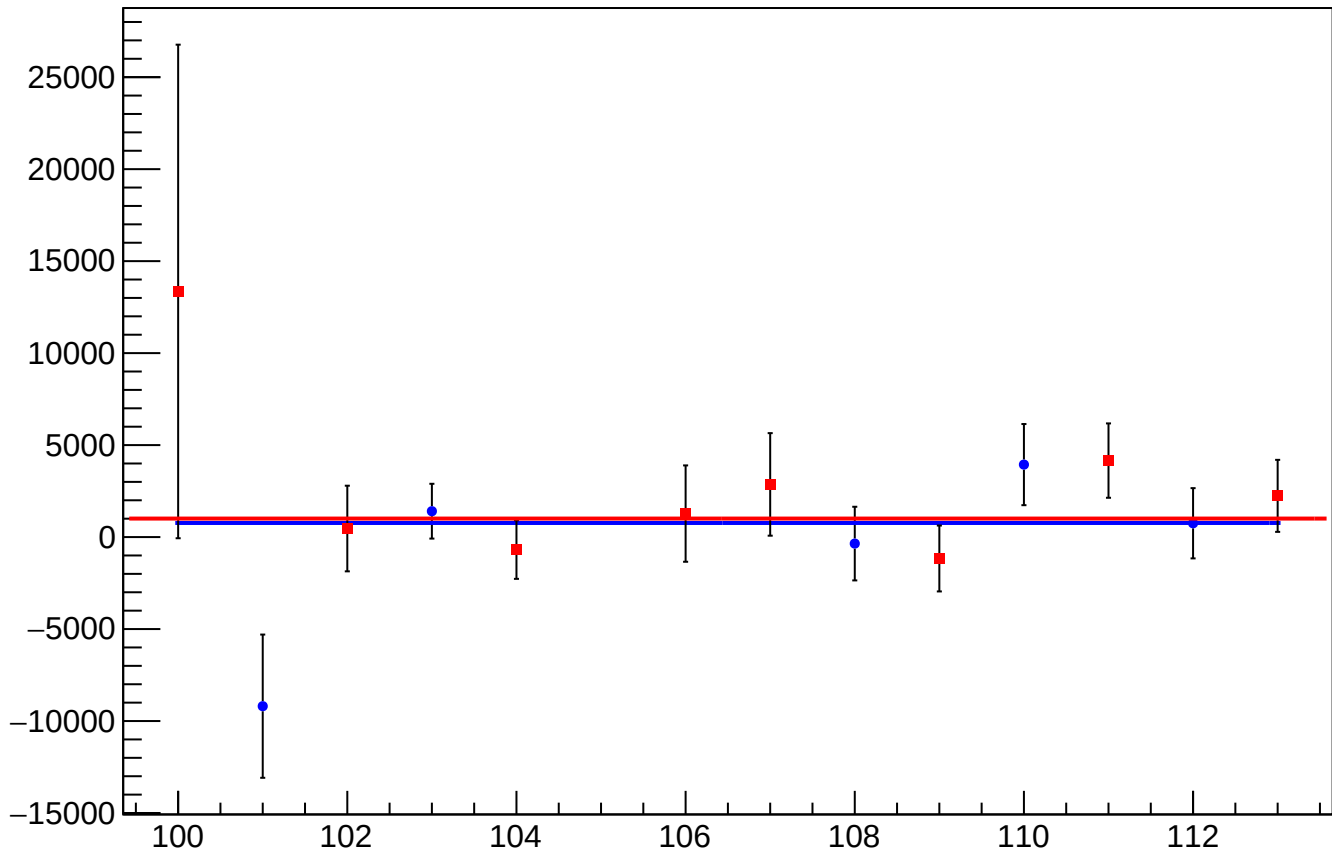
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1320.441+/-0.401  $\chi^2/\text{NDF}$ : 345884.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 766.495+/-895.778  $\chi^2/\text{NDF}$ : 9.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1006.047+/-772.375  $\chi^2/\text{NDF}$ : 6.8/7

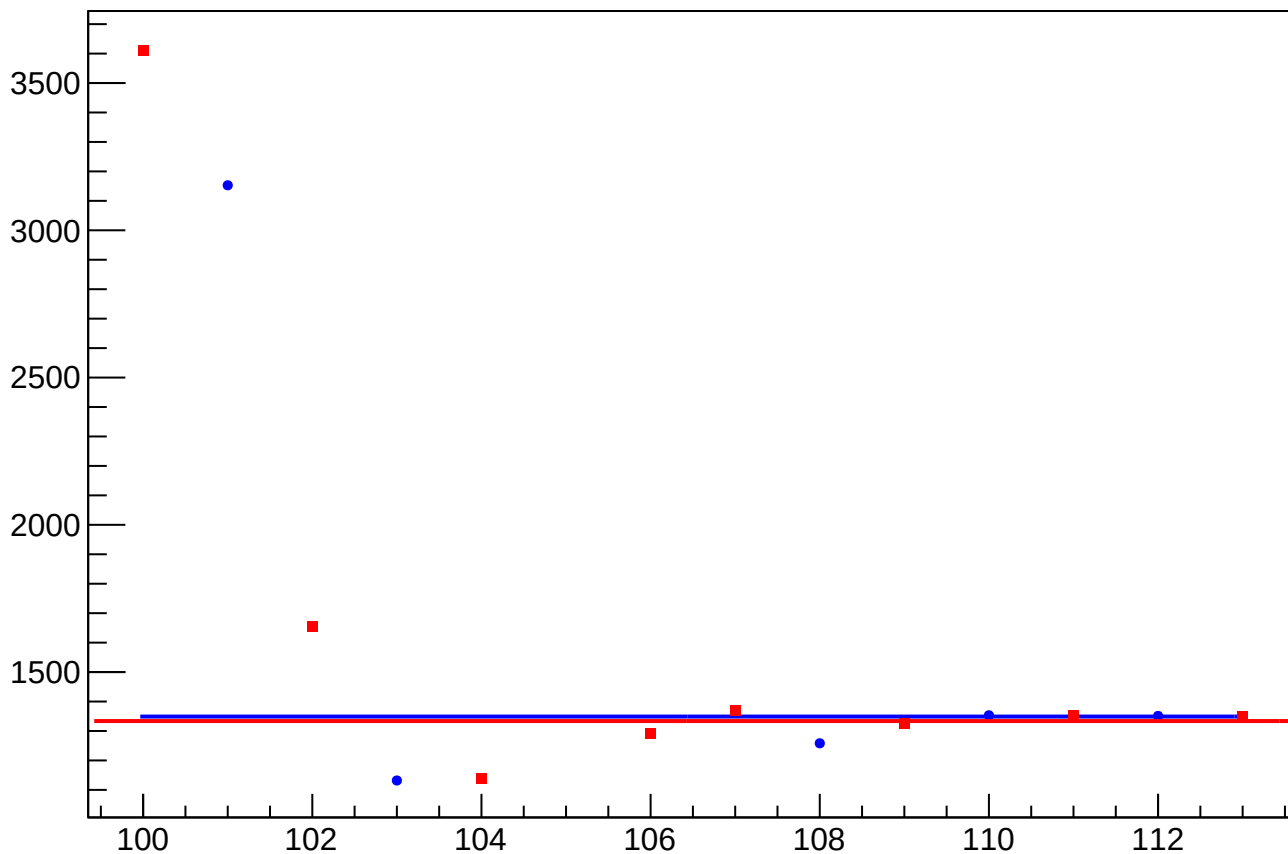
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 903.895+/-584.955  $\chi^2/\text{NDF}$ : 15.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 1348.976 $\pm$ 0.633  $\chi^2$ /NDF: 476002.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1333.742 $\pm$ 0.546  $\chi^2$ /NDF: 126564.5/7

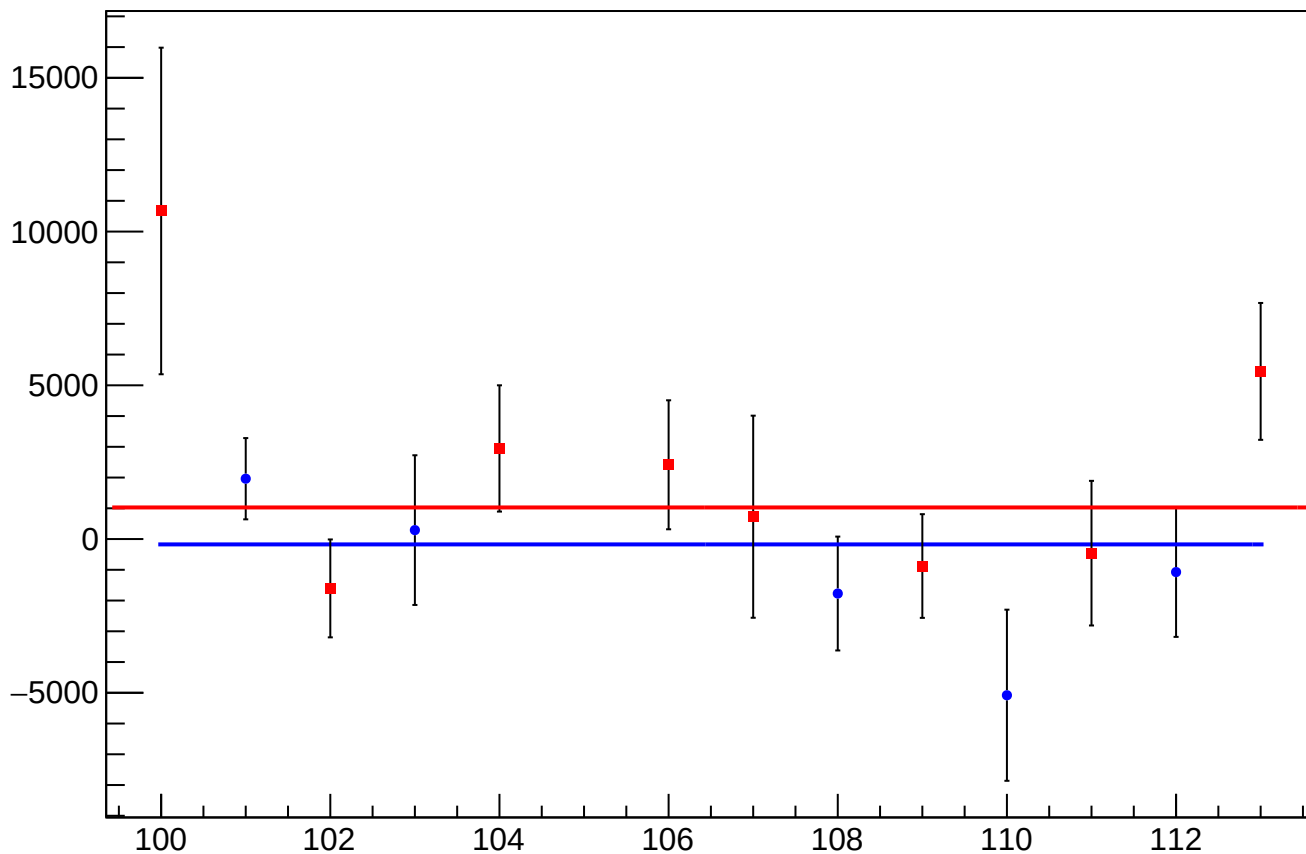
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1340.238 $\pm$ 0.414  $\chi^2$ /NDF: 602898.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -174.146+/-849.047  $\chi^2/\text{NDF}$ : 6.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1027.624+/-762.202  $\chi^2/\text{NDF}$ : 13.0/7

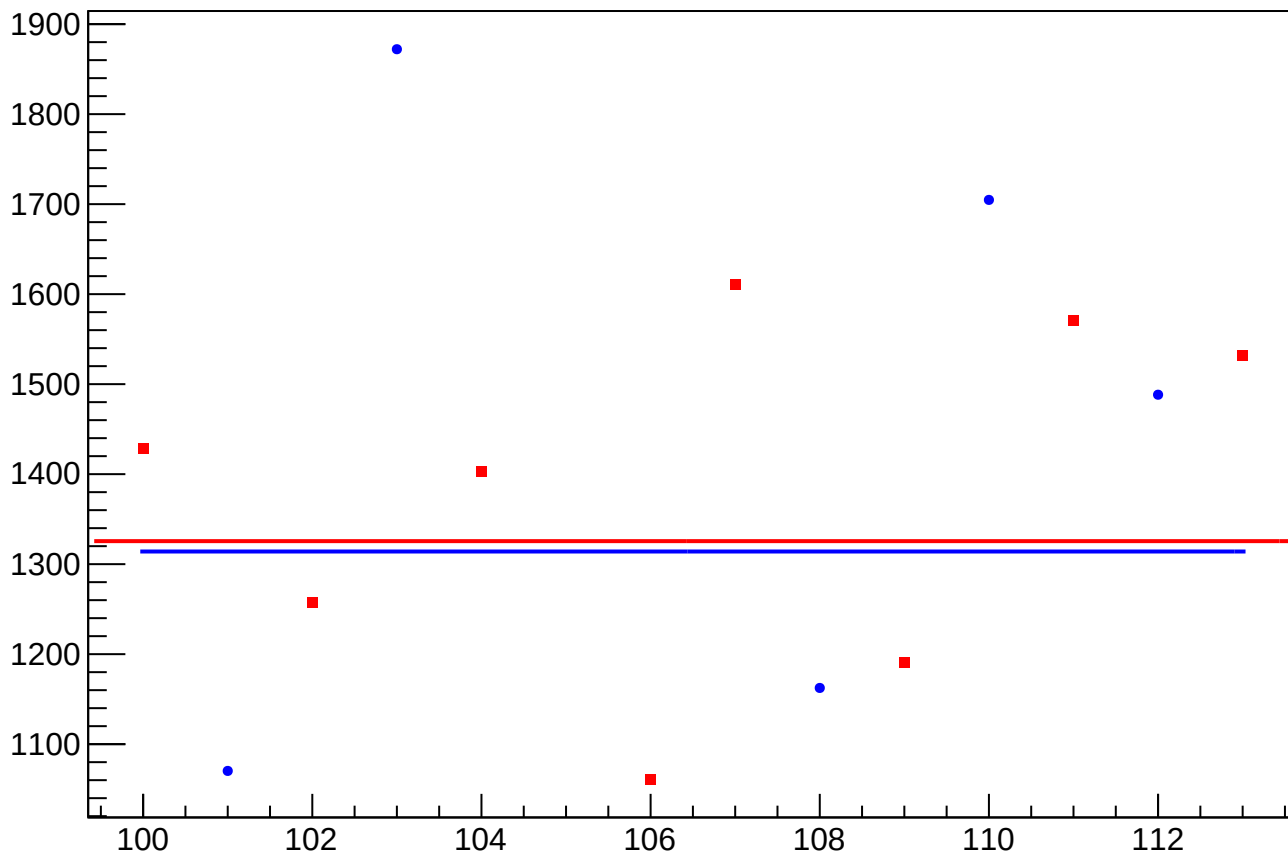
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 491.326+/-567.184  $\chi^2/\text{NDF}$ : 20.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1314.065+/-0.600  $\chi^2/\text{NDF}$ : 239656.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1325.579+/-0.539  $\chi^2/\text{NDF}$ : 106024.0/7

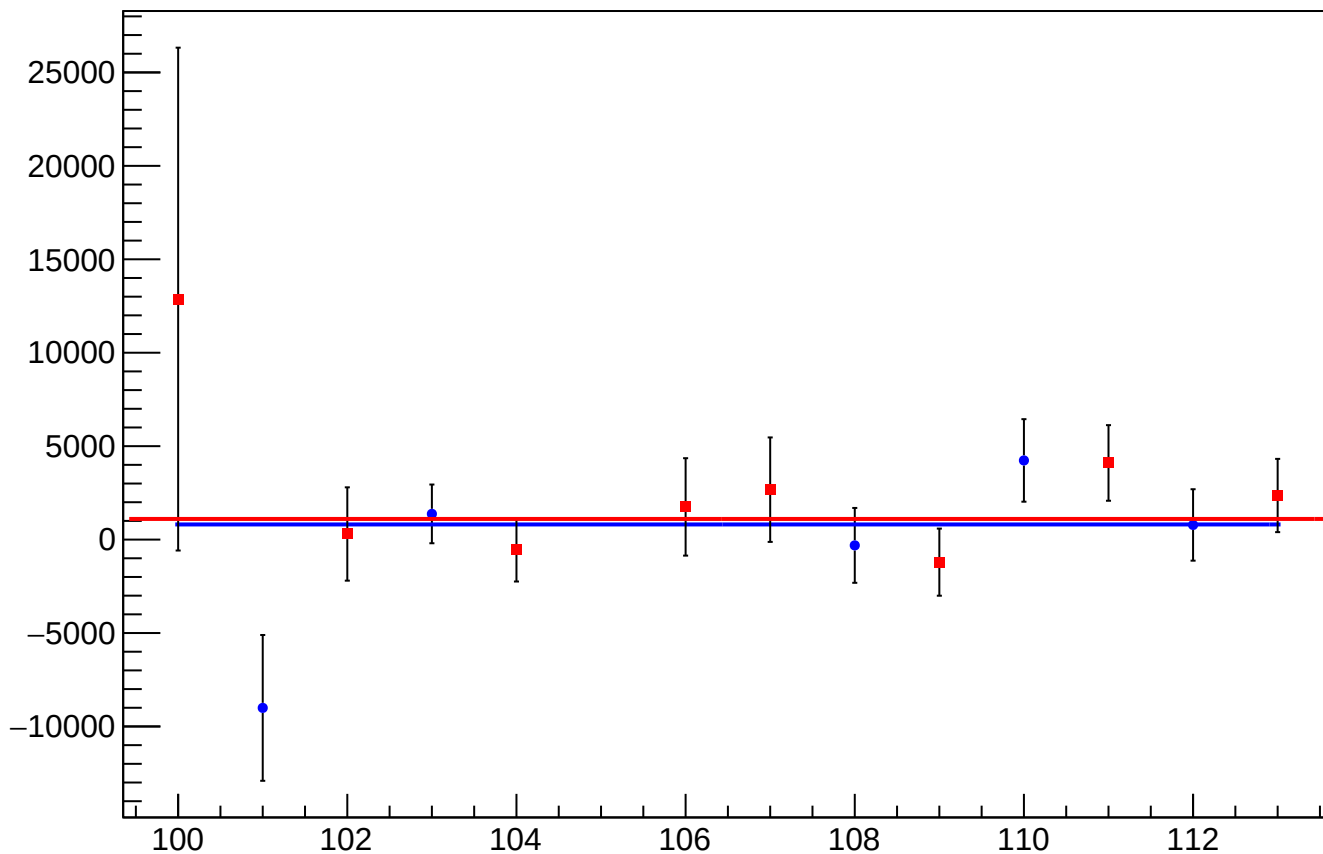
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1320.441+/-0.401  $\chi^2/\text{NDF}$ : 345884.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 810.245+/-913.370  $\chi^2/\text{NDF}$ : 9.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1105.096+/-789.921  $\chi^2/\text{NDF}$ : 6.5/7

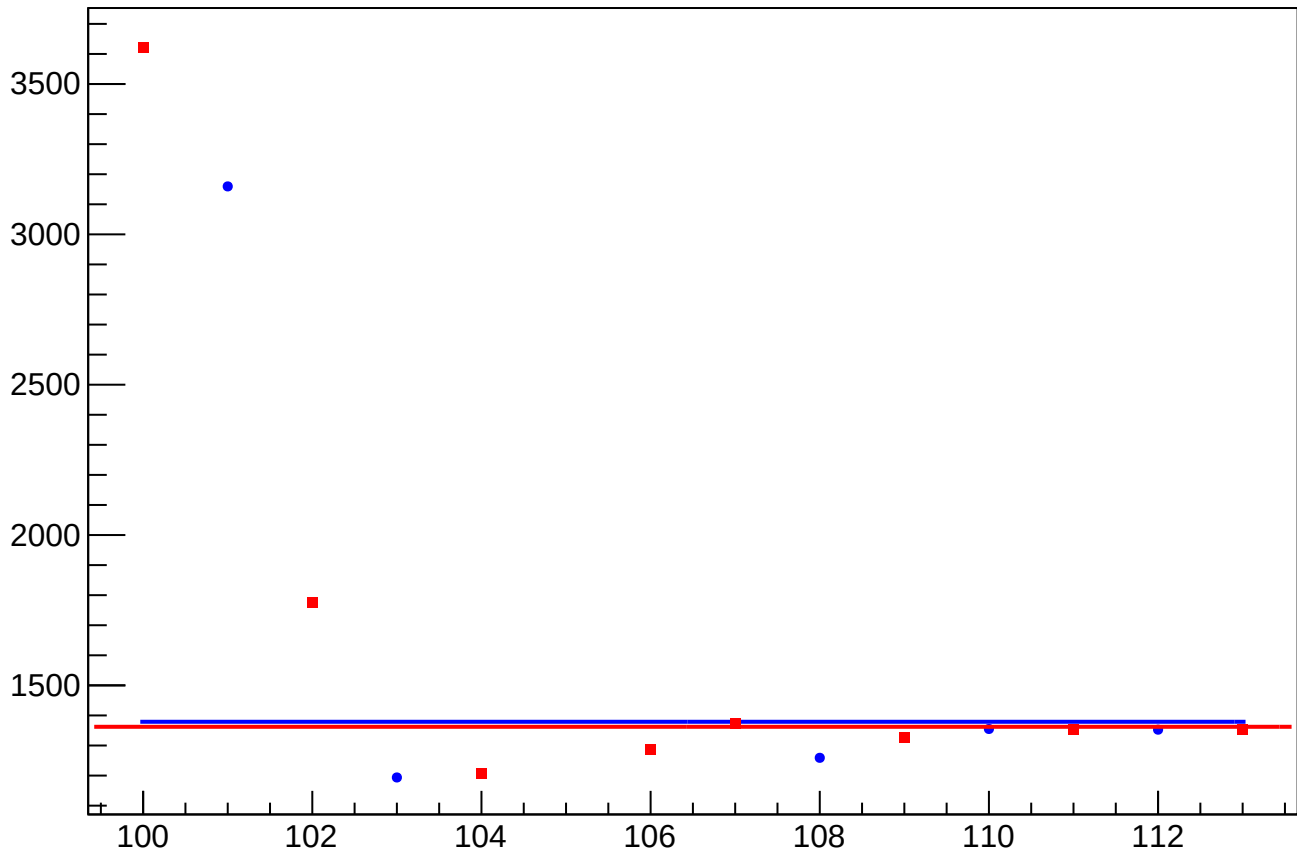
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 978.928+/-597.474  $\chi^2/\text{NDF}$ : 15.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 1378.939 $\pm$ 0.646  $\chi^2$ /NDF: 452153.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1362.240 $\pm$ 0.559  $\chi^2$ /NDF: 130435.0/7

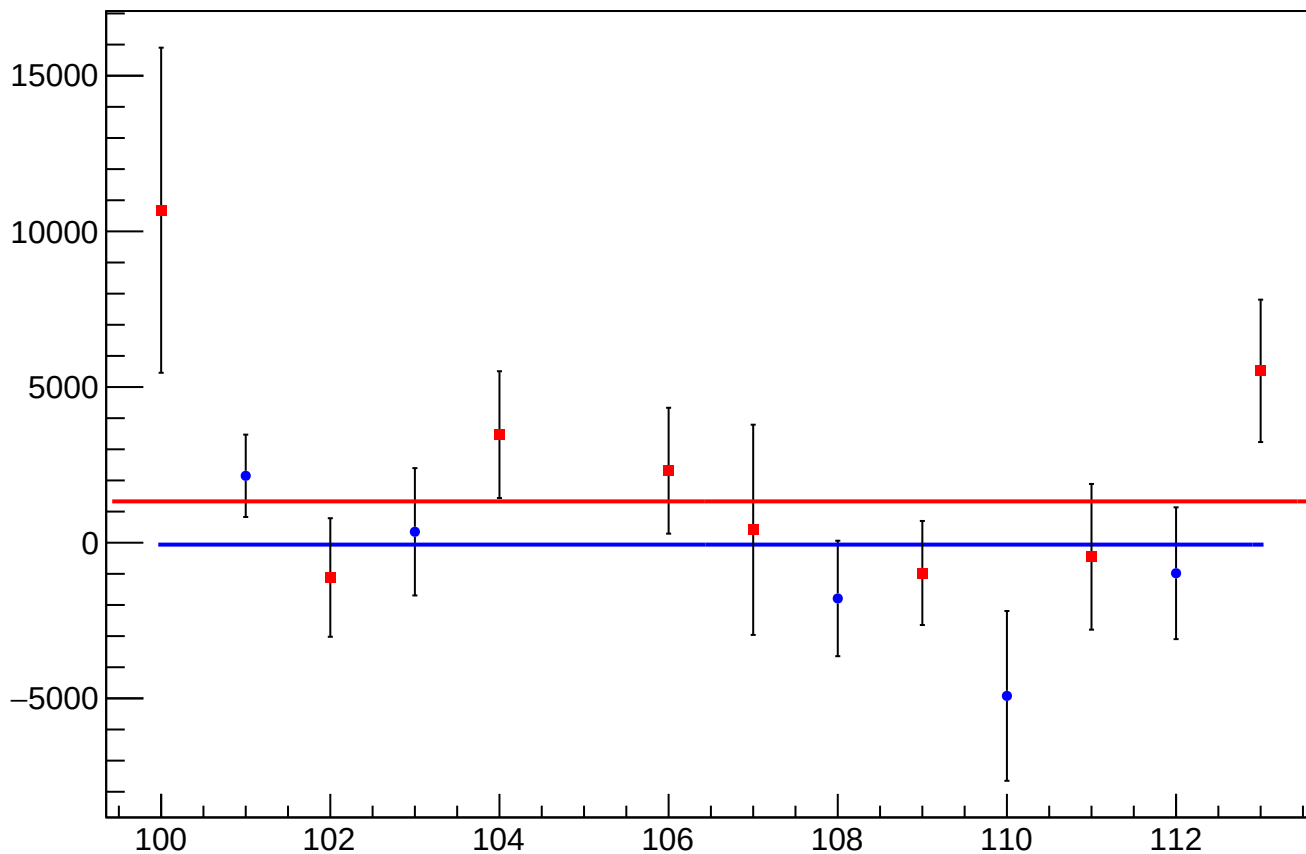
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1369.385 $\pm$ 0.422  $\chi^2$ /NDF: 582971.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_dit\_correction\_mean vs Slug



Right In: -61.129+/-827.842  $\chi^2/\text{NDF}$ : 7.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1327.016+/-786.238  $\chi^2/\text{NDF}$ : 12.1/7

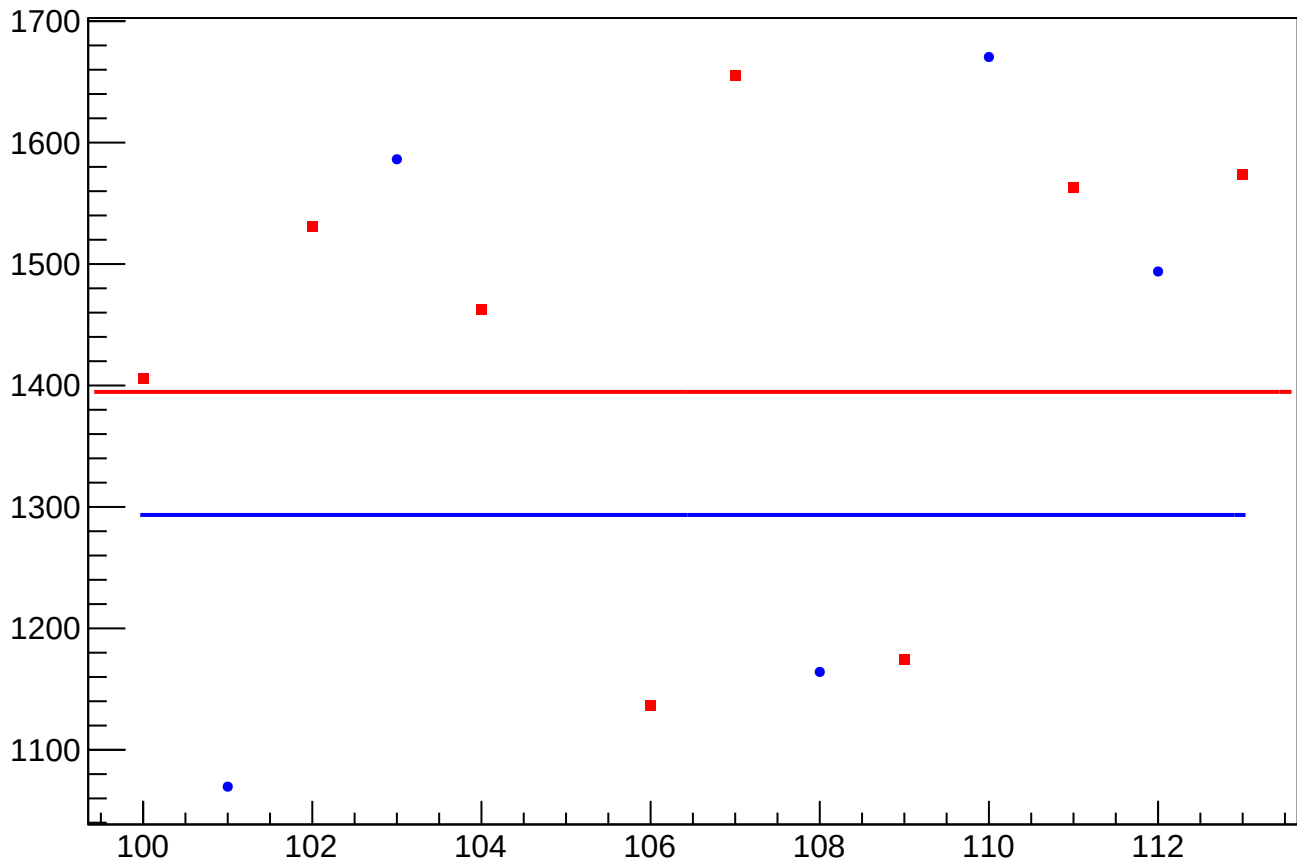
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 668.700+/-570.095  $\chi^2/\text{NDF}$ : 20.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_dit\_correction\_rms vs Slug



Right In: 1293.408+/-0.585  $\chi^2/\text{NDF}$ : 164125.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1394.749+/-0.556  $\chi^2/\text{NDF}$ : 114475.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

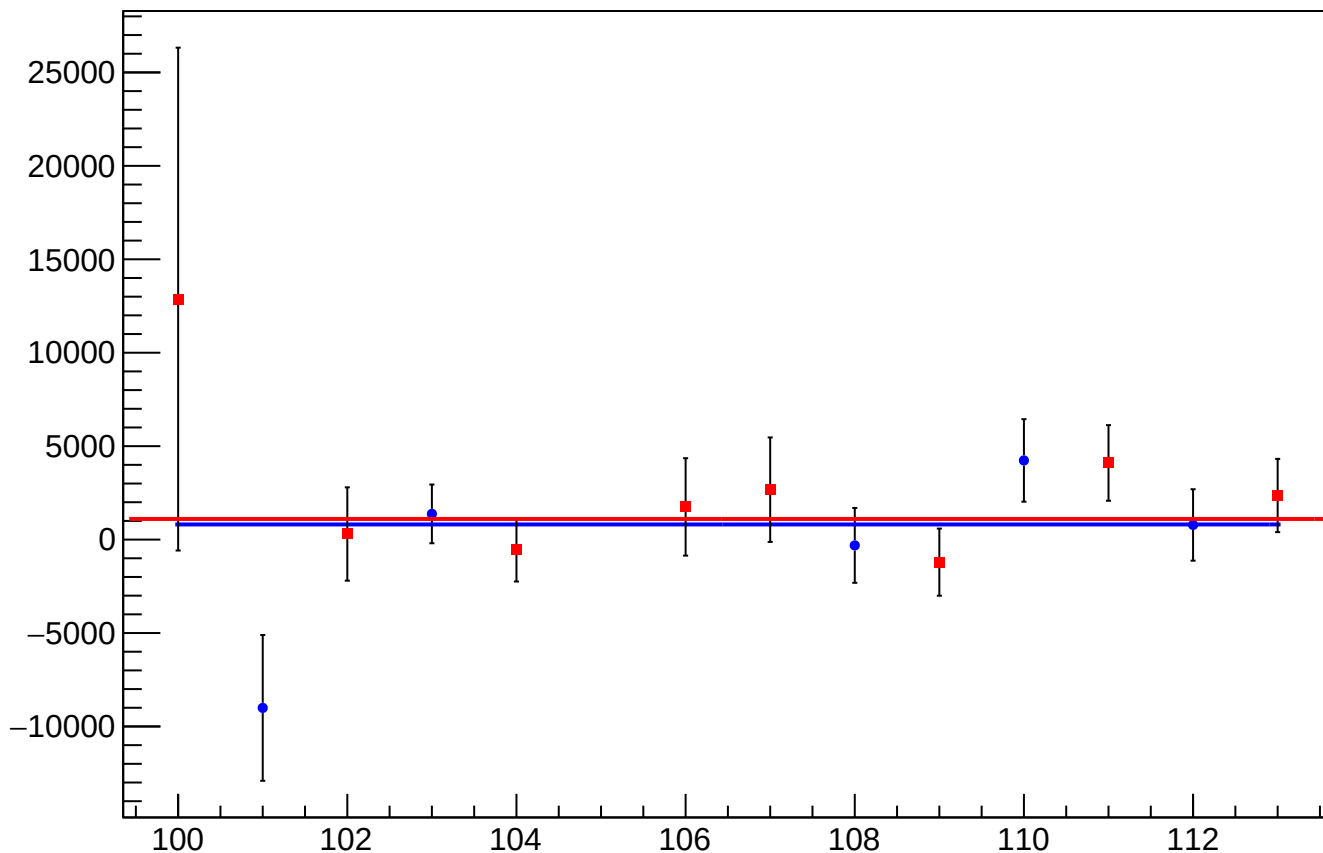
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1346.689+/-0.403  $\chi^2/\text{NDF}$ : 294359.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 810.241+/-913.370  $\chi^2/\text{NDF}$ : 9.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1105.097+/-789.921  $\chi^2/\text{NDF}$ : 6.5/7

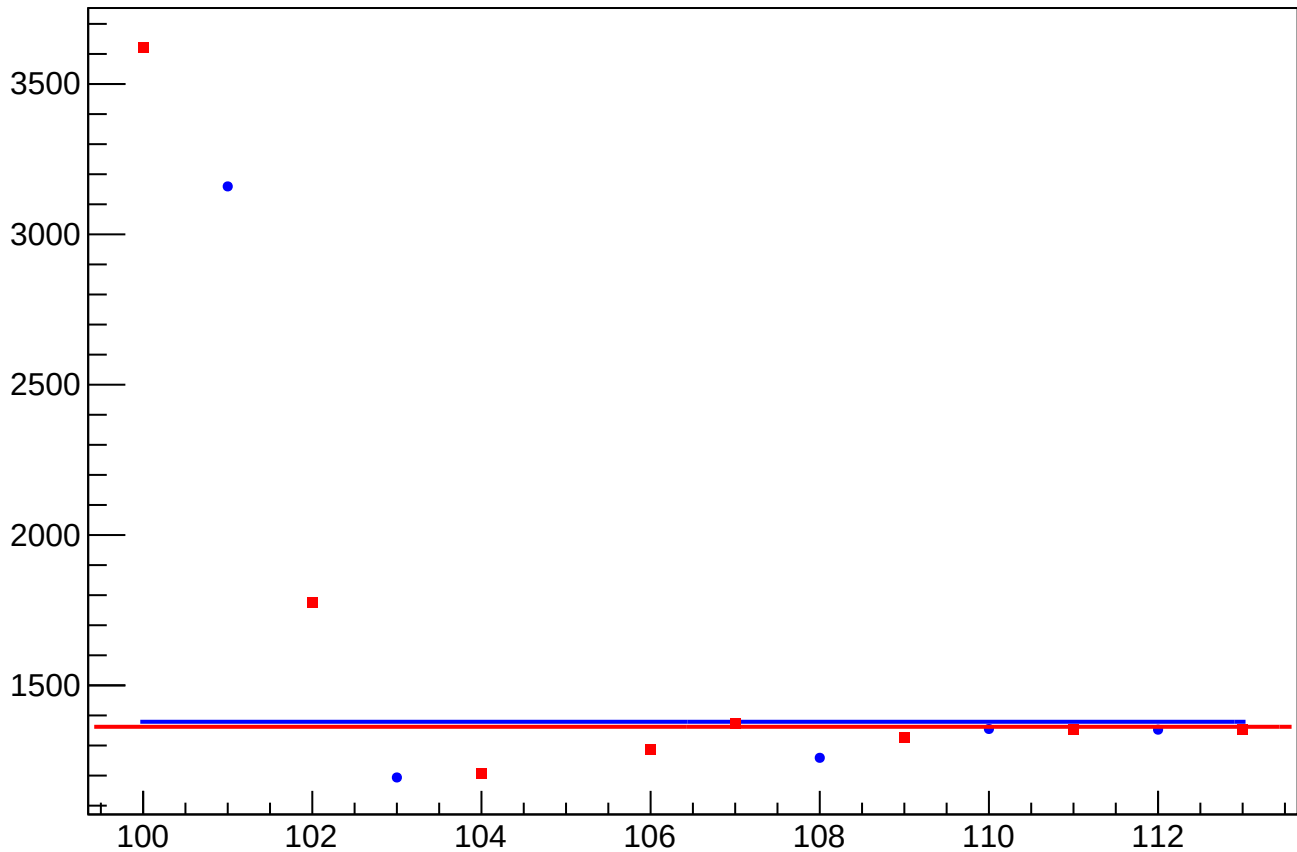
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 978.927+/-597.474  $\chi^2/\text{NDF}$ : 15.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 1378.938 $\pm$ 0.646  $\chi^2$ /NDF: 452154.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1362.239 $\pm$ 0.559  $\chi^2$ /NDF: 130434.9/7

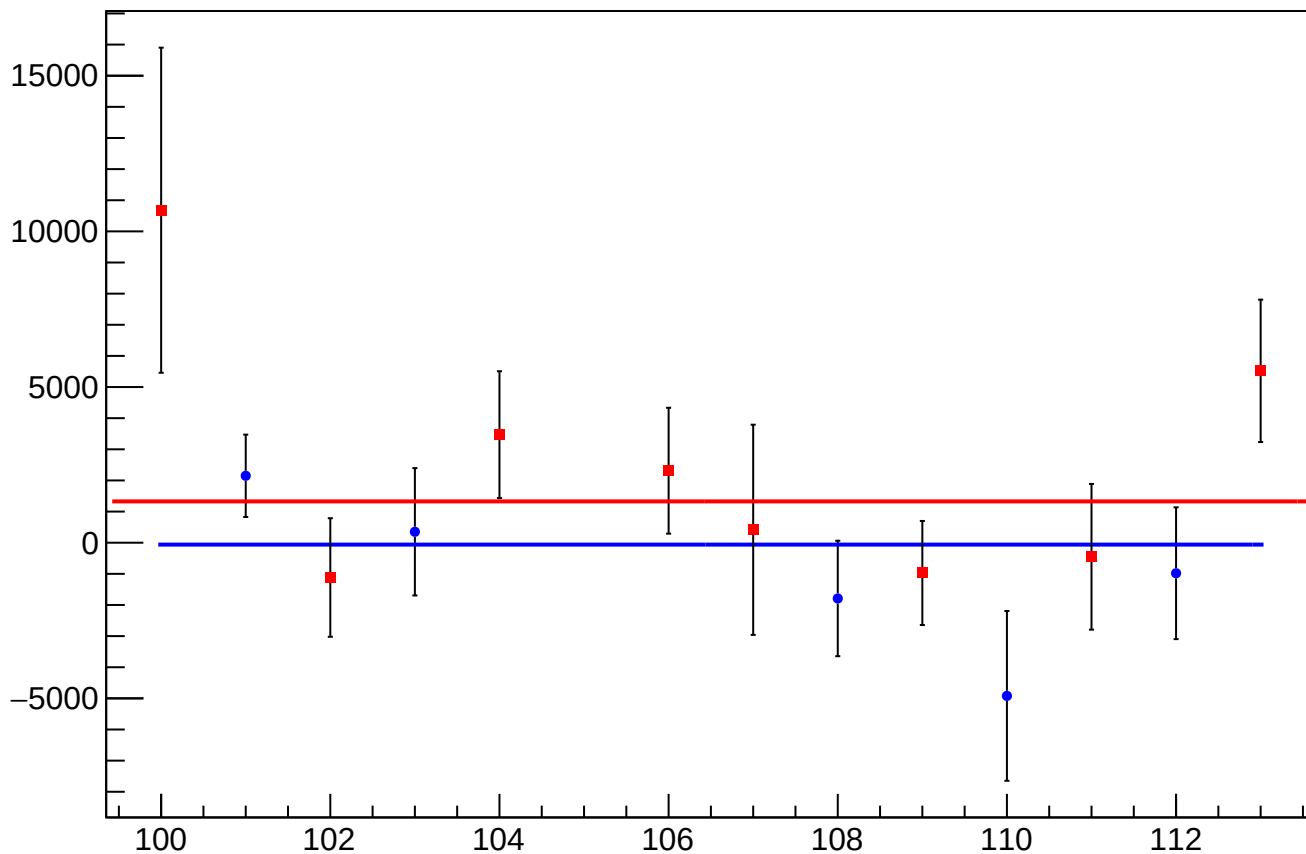
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1369.385 $\pm$ 0.422  $\chi^2$ /NDF: 582971.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In:  $-61.128 \pm 827.839$   $\chi^2/\text{NDF}$ : 7.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1327.019 \pm 786.238$   $\chi^2/\text{NDF}$ : 12.1/7

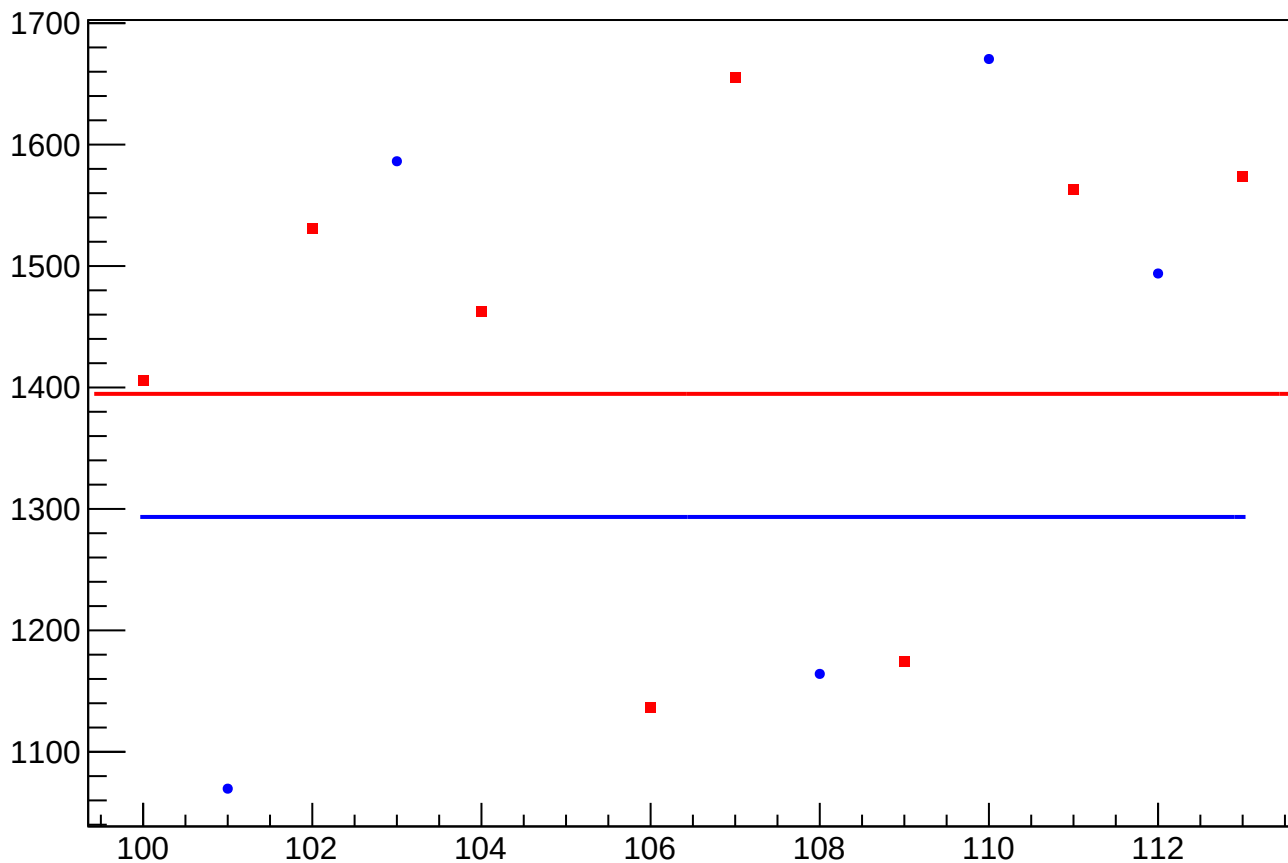
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $668.699 \pm 570.094$   $\chi^2/\text{NDF}$ : 20.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1293.402 $\pm$ 0.585  $\chi^2$ /NDF: 164133.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1394.749 $\pm$ 0.556  $\chi^2$ /NDF: 114477.7/7

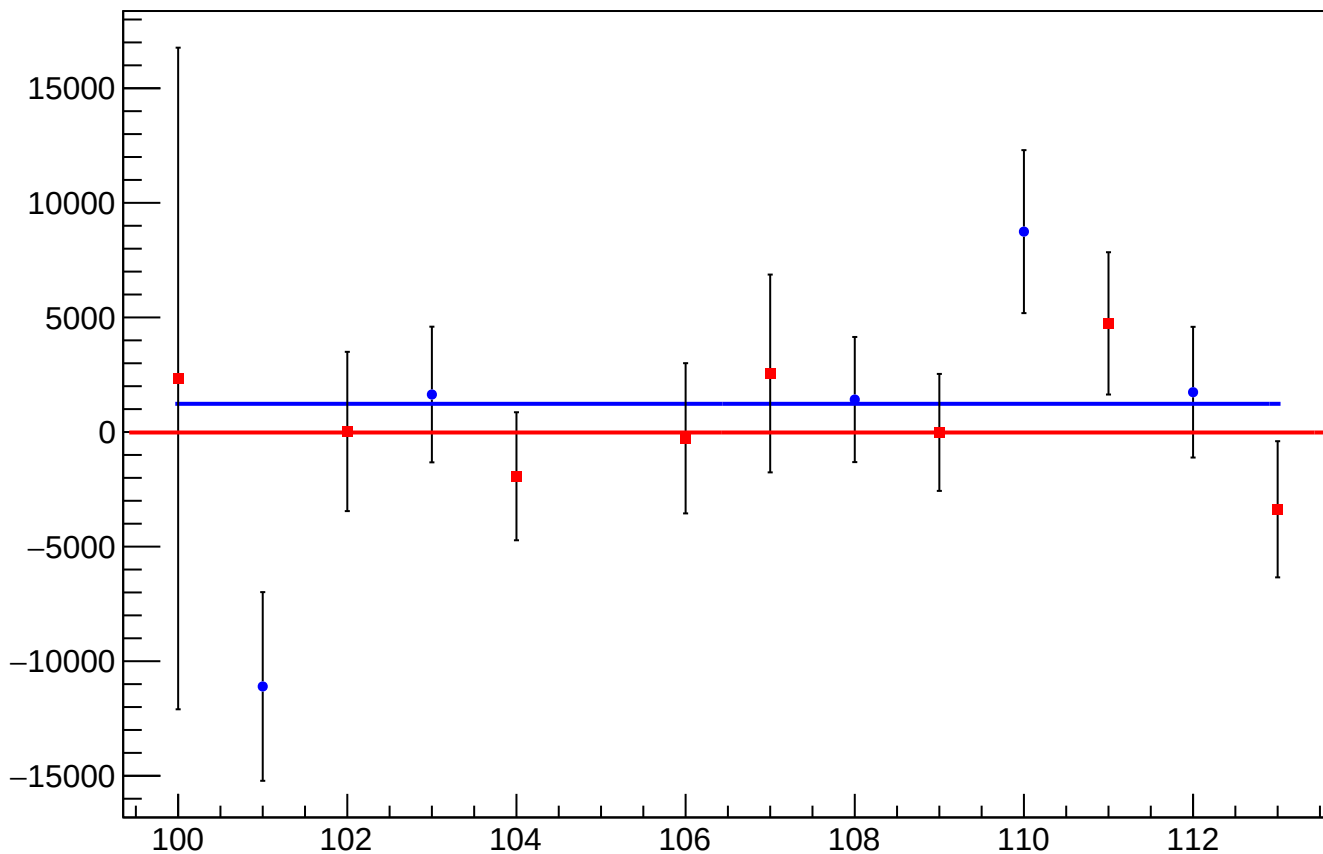
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1346.686 $\pm$ 0.403  $\chi^2$ /NDF: 294370.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 1231.296+/-1401.111  $\chi^2/\text{NDF}$ : 13.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20.359+/-1167.844  $\chi^2/\text{NDF}$ : 4.5/7

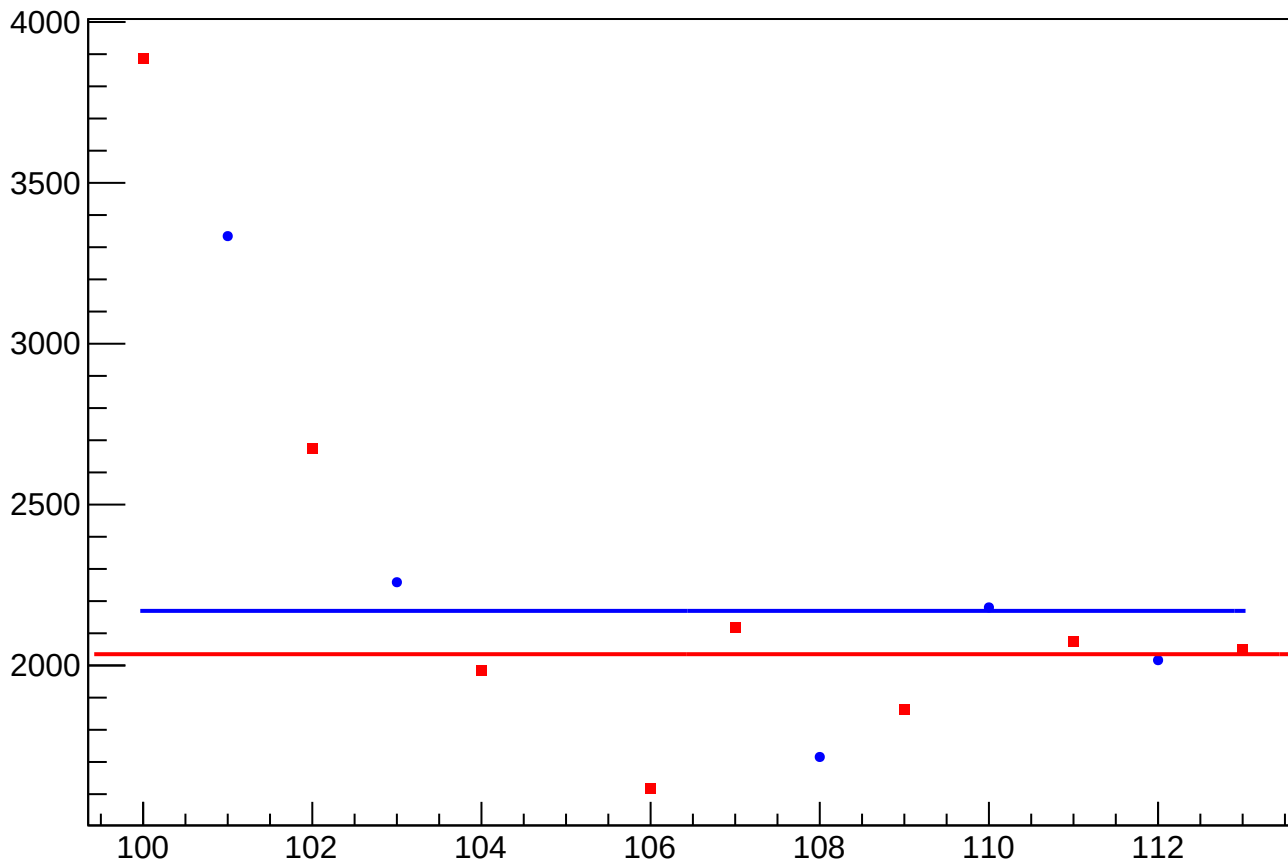
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 492.744+/-897.084  $\chi^2/\text{NDF}$ : 18.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 2169.650+/-0.991  $\chi^2/\text{NDF}$ : 223080.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2035.010+/-0.826  $\chi^2/\text{NDF}$ : 143775.0/7

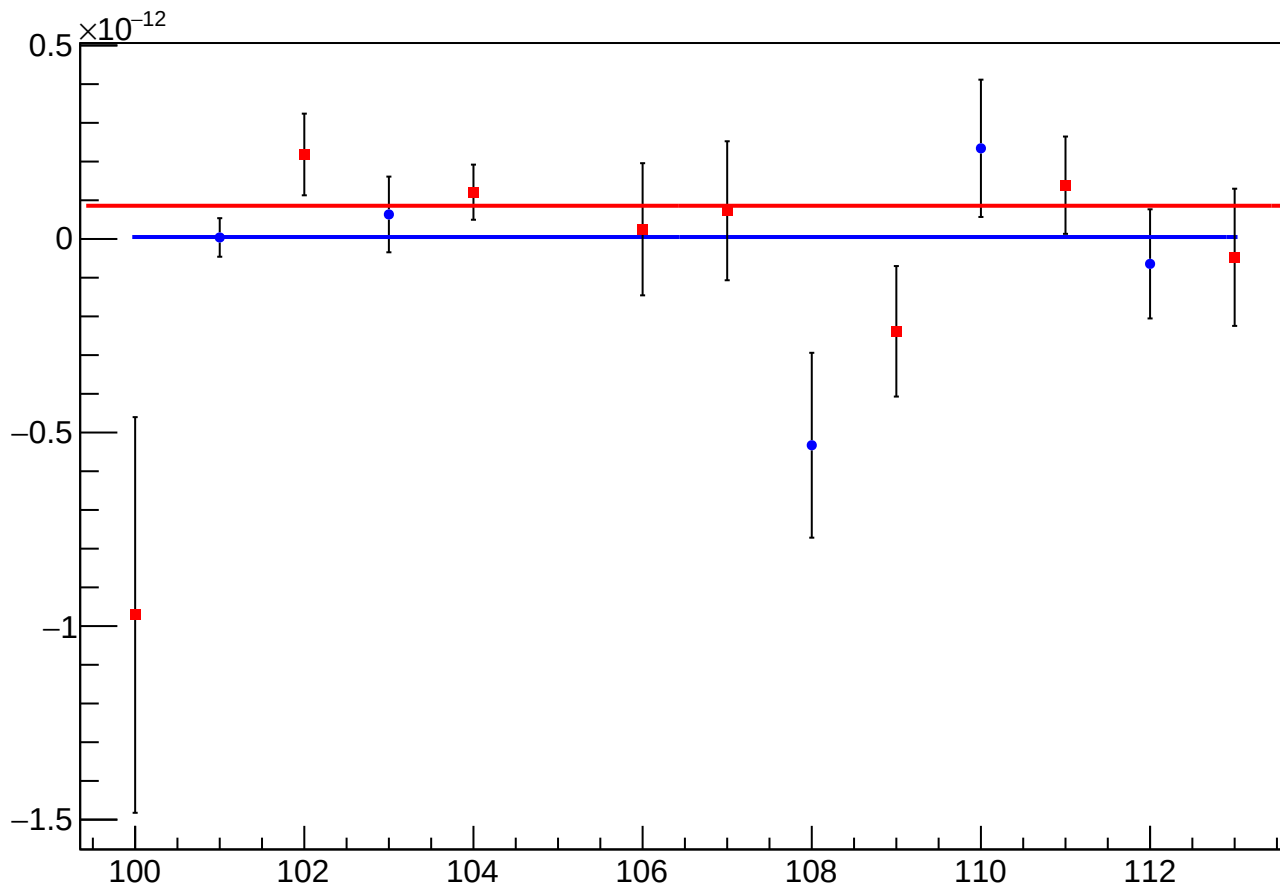
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2090.202+/-0.634  $\chi^2/\text{NDF}$ : 377753.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.7/7

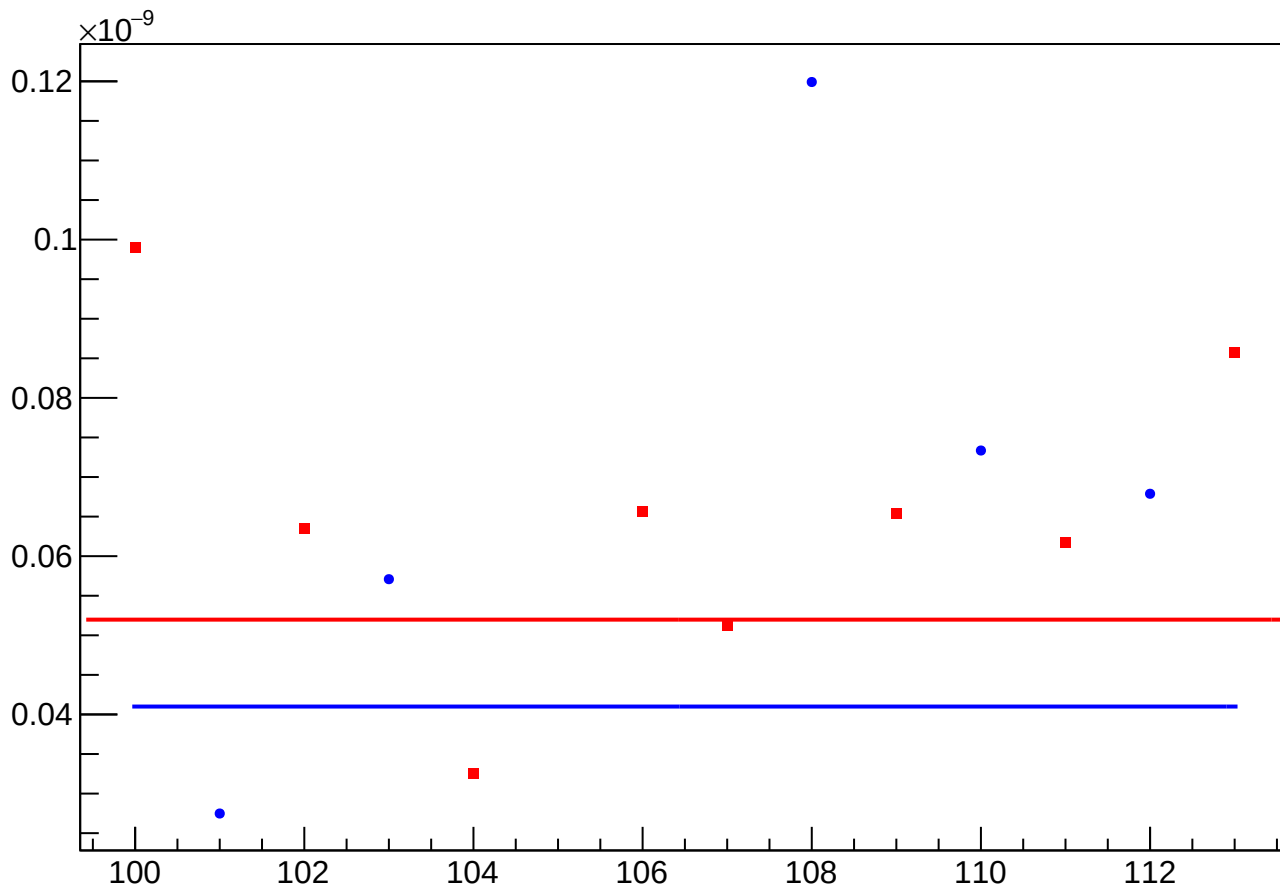
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 559215.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 299572.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

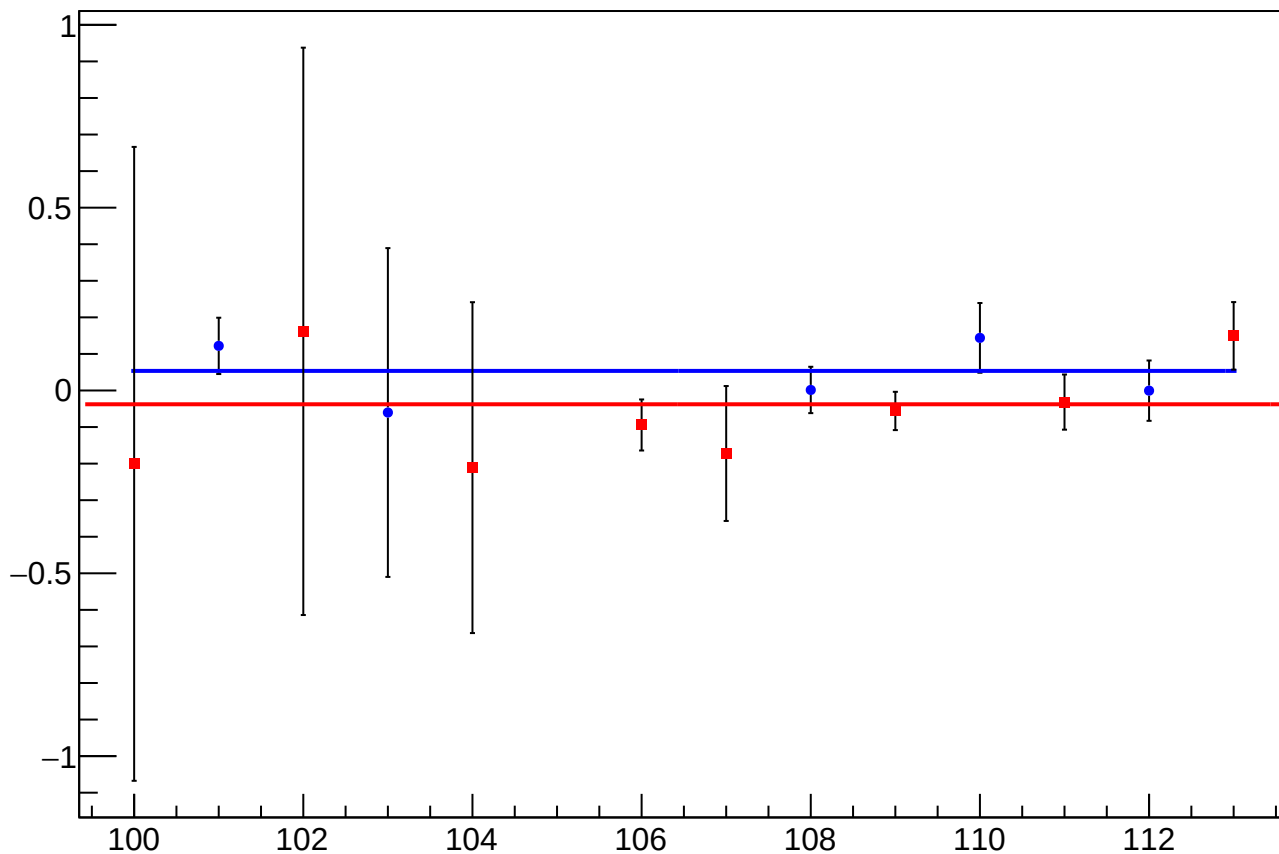
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 923948.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_at1\_dd\_at2\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.038  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.038 $\pm$ 0.033  $\chi^2$ /NDF: 5.7/7

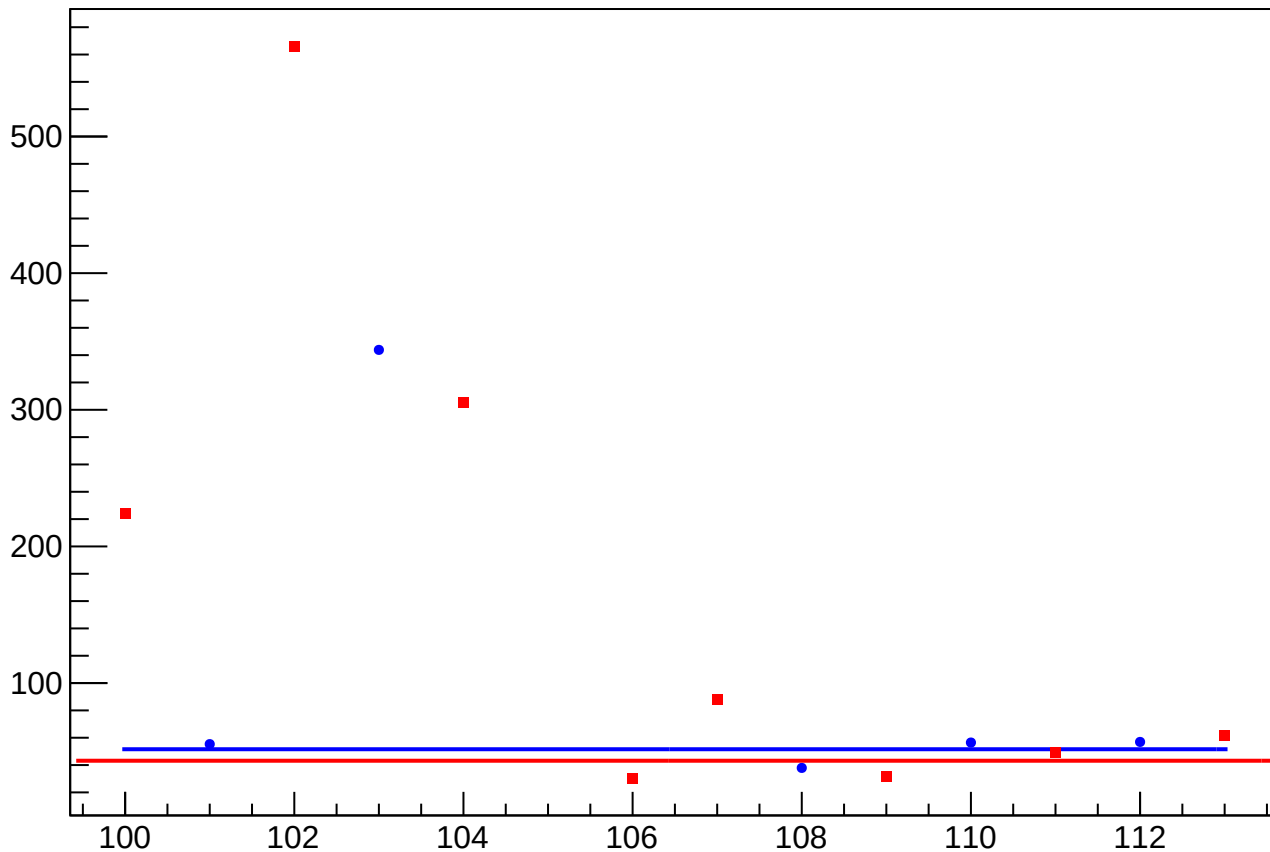
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.025  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 51.584 $\pm$ 0.027  $\chi^2$ /NDF: 956309.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 43.170 $\pm$ 0.024  $\chi^2$ /NDF: 2051976.5/7

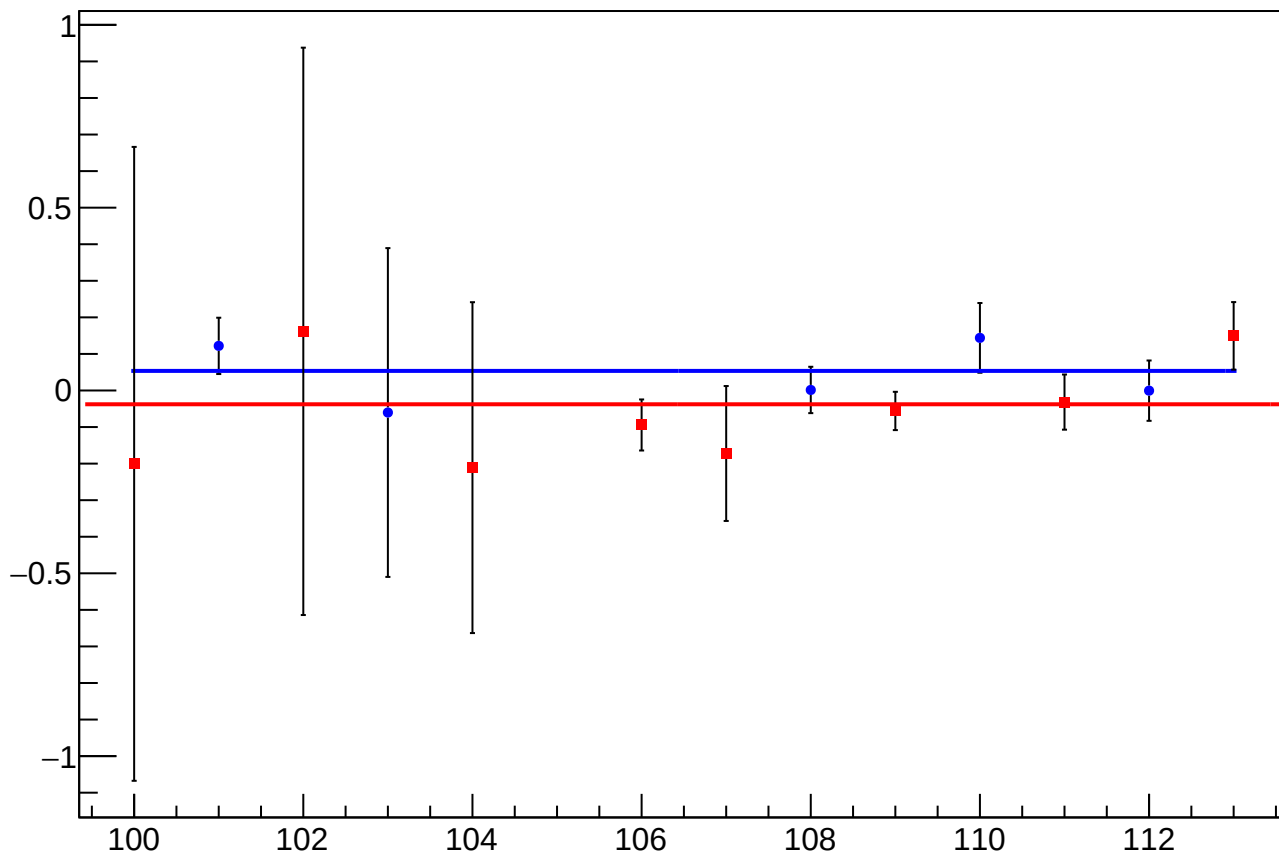
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 46.789 $\pm$ 0.018  $\chi^2$ /NDF: 3063107.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.038  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.038 $\pm$ 0.033  $\chi^2$ /NDF: 5.7/7

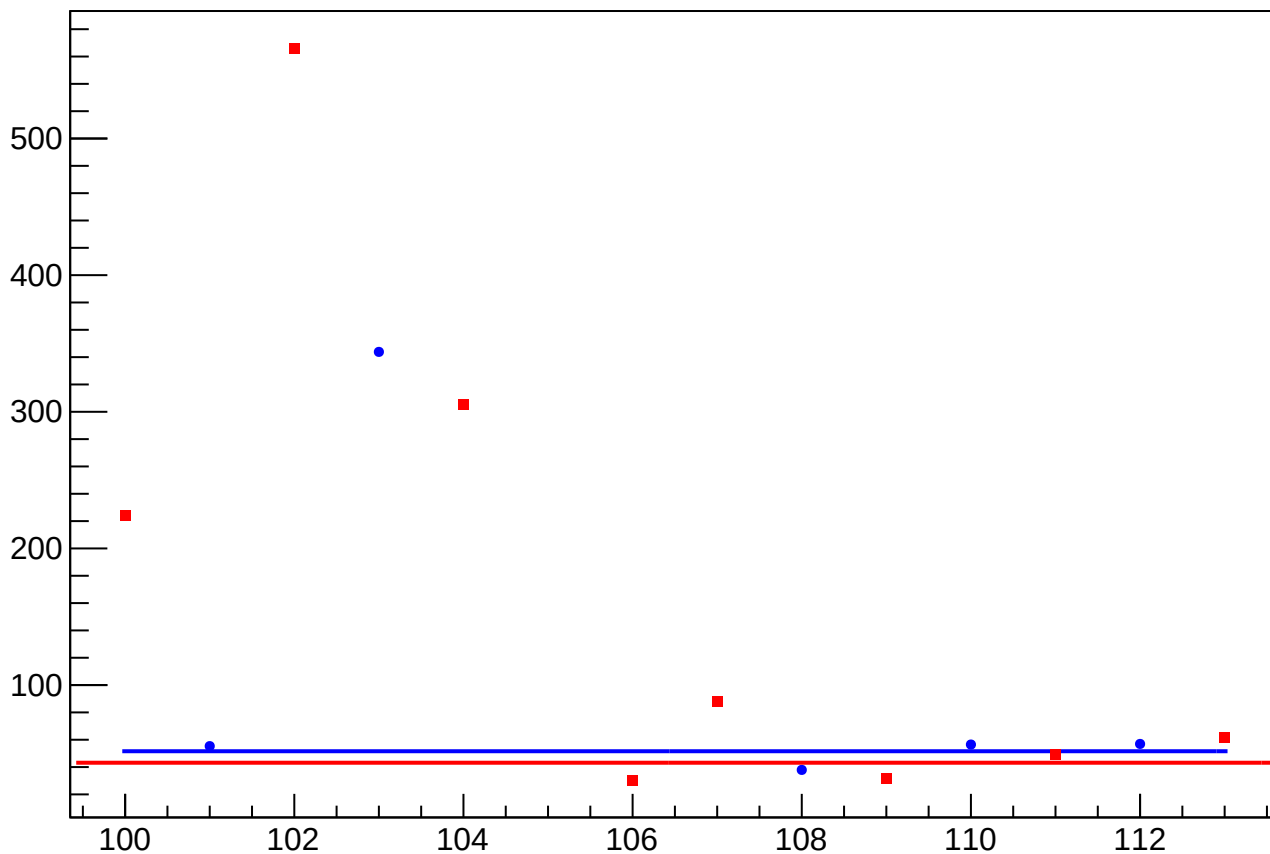
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.025  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 51.584+/-0.027  $\chi^2/\text{NDF}$ : 956309.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 43.170+/-0.024  $\chi^2/\text{NDF}$ : 2051976.5/7

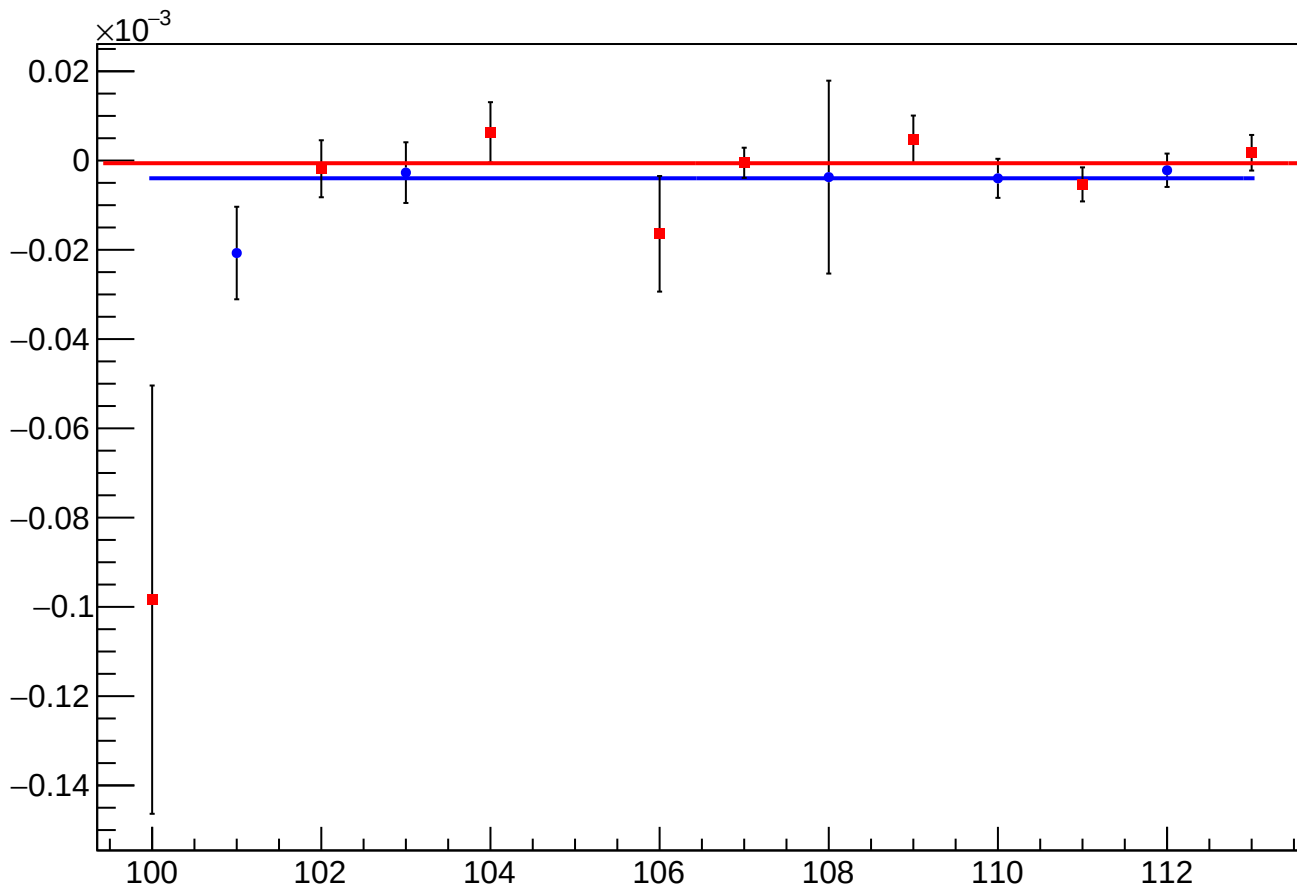
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.789+/-0.018  $\chi^2/\text{NDF}$ : 3063107.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 9.6/7

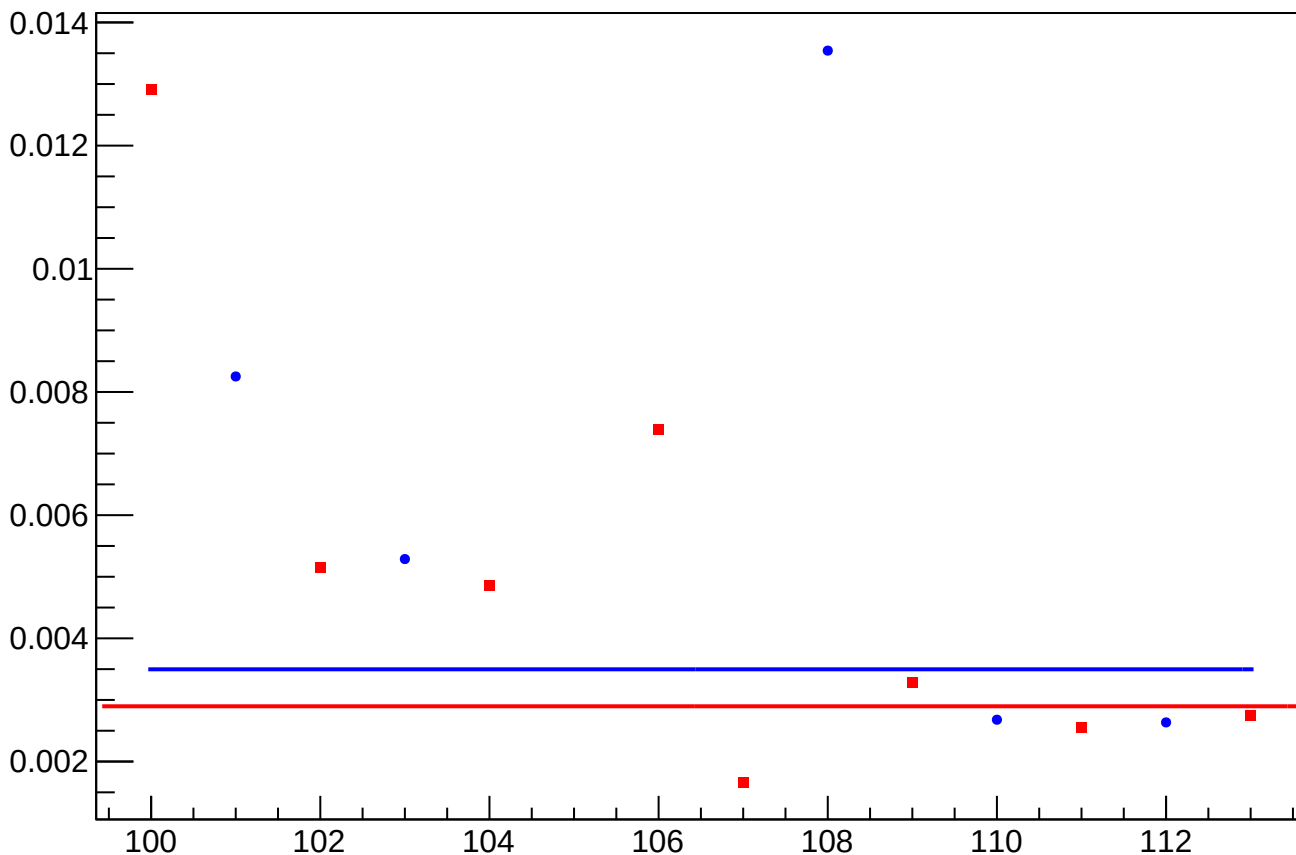
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 13.7/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1168136.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1042860.7/7

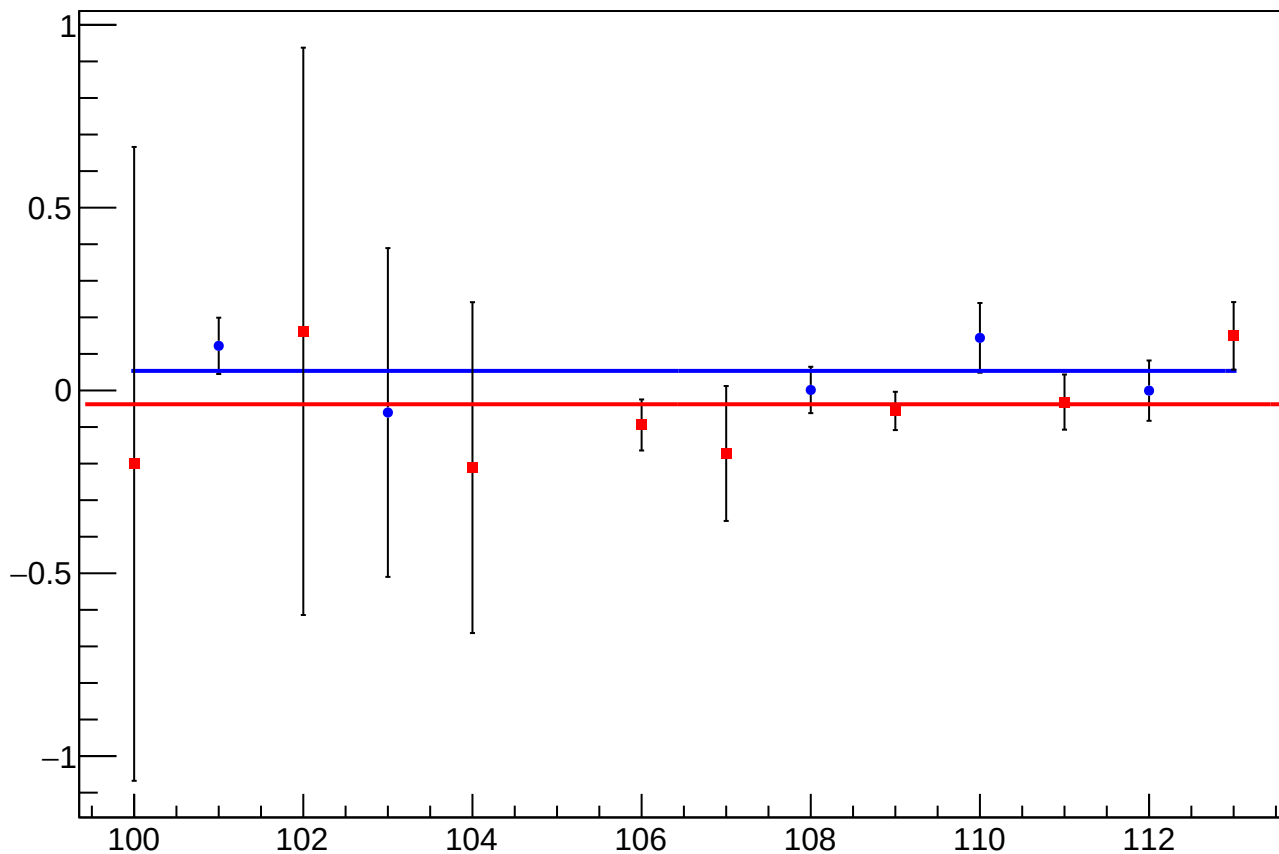
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2285831.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.038  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.038 $\pm$ 0.033  $\chi^2$ /NDF: 5.7/7

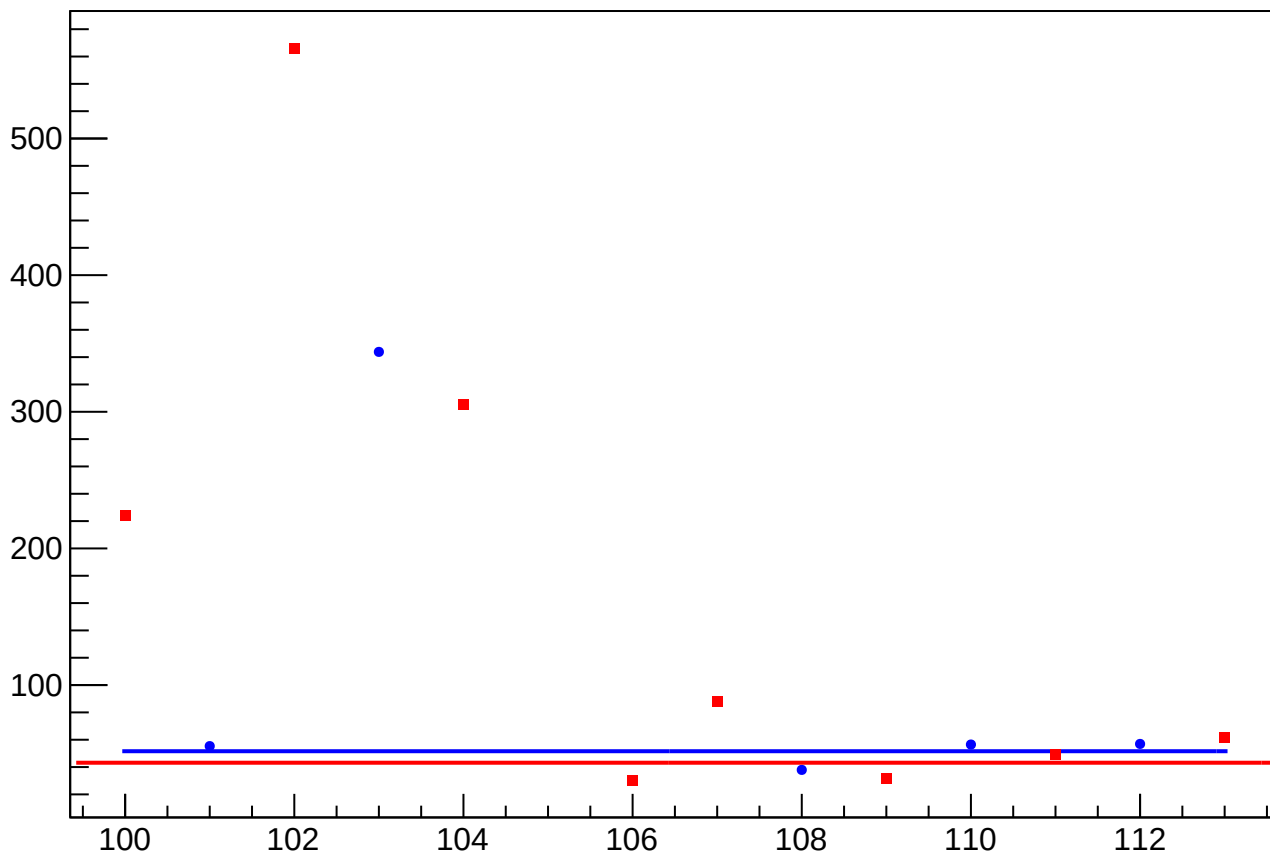
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.025  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 51.589+/-0.027  $\chi^2/\text{NDF}$ : 956186.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 43.168+/-0.024  $\chi^2/\text{NDF}$ : 2052043.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

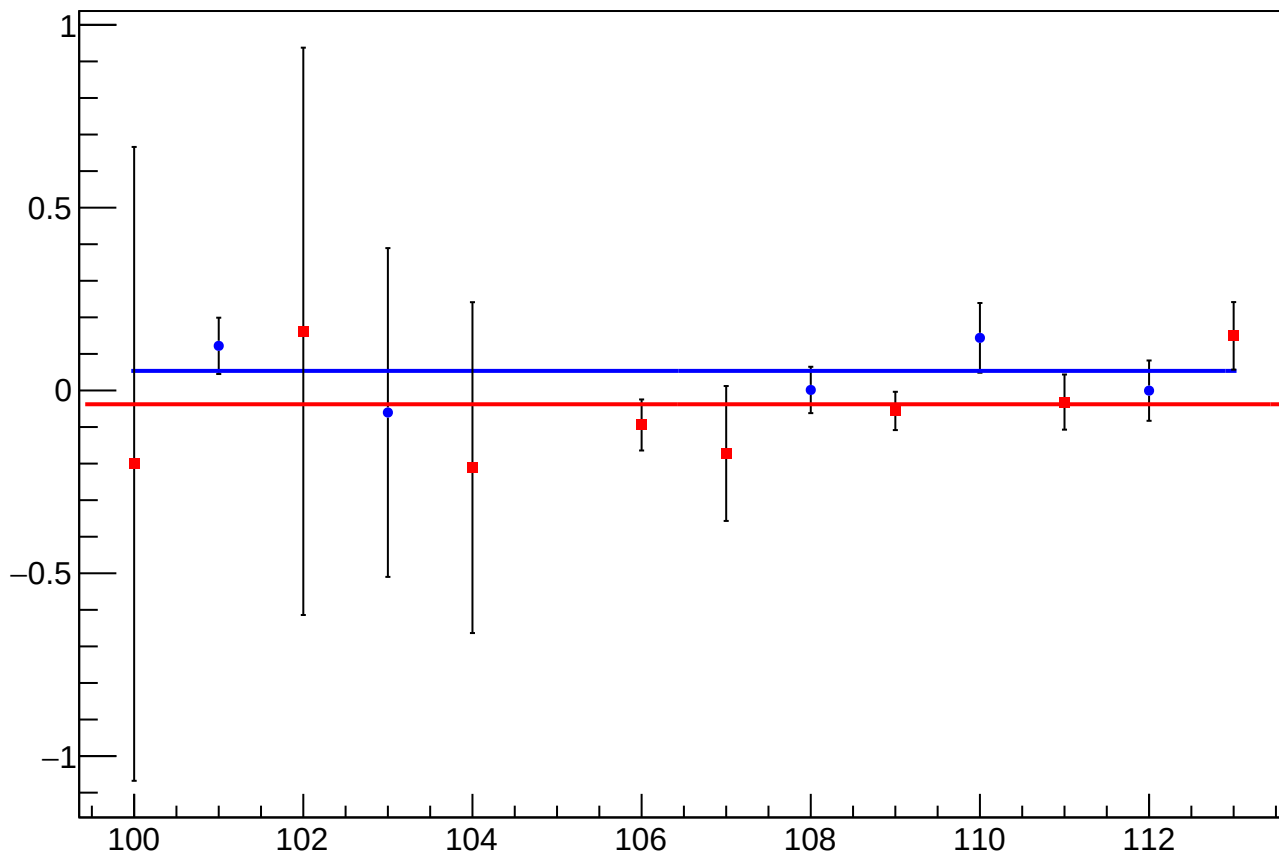
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.790+/-0.018  $\chi^2/\text{NDF}$ : 3063145.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.038  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.038 $\pm$ 0.033  $\chi^2$ /NDF: 5.7/7

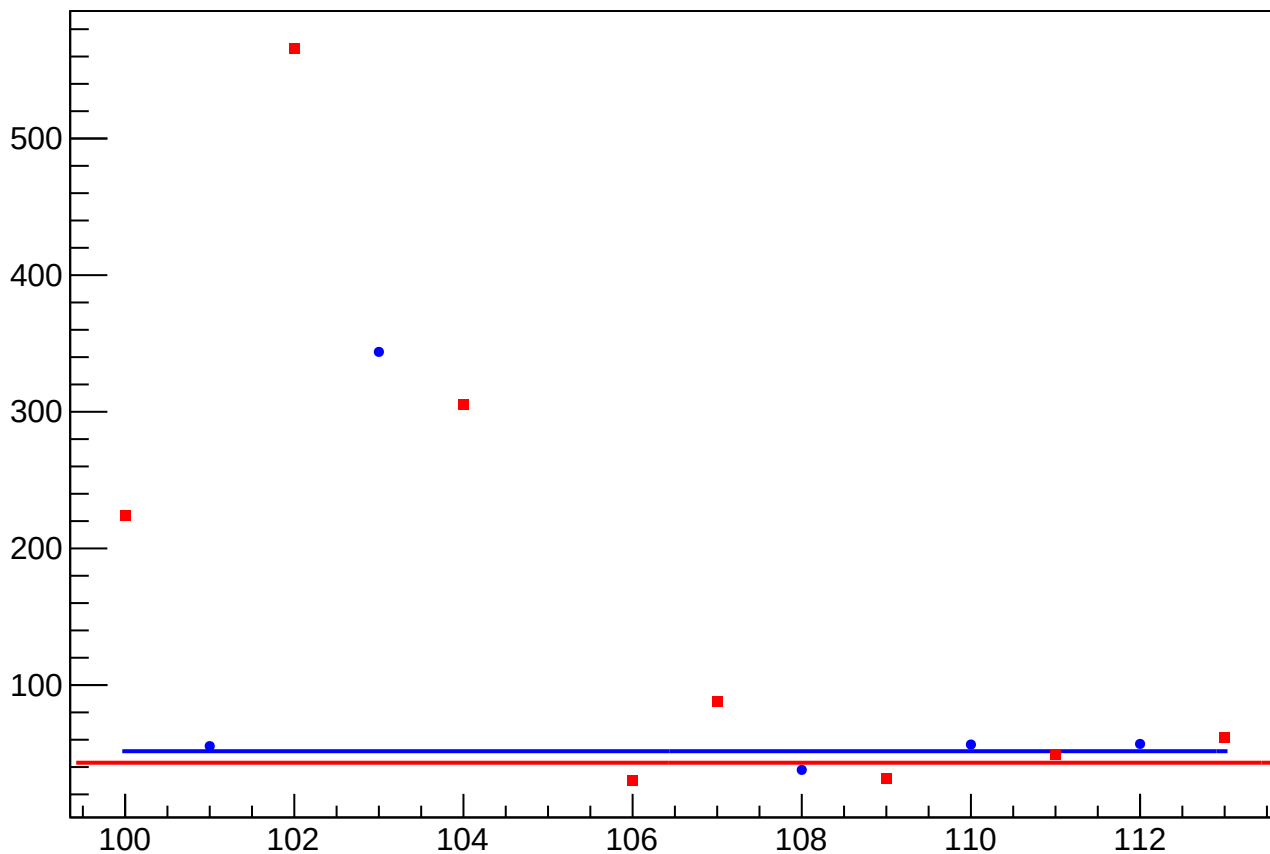
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.025  $\chi^2$ /NDF: 11.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 51.589+/-0.027  $\chi^2/\text{NDF}$ : 956186.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 43.168+/-0.024  $\chi^2/\text{NDF}$ : 2052043.6/7

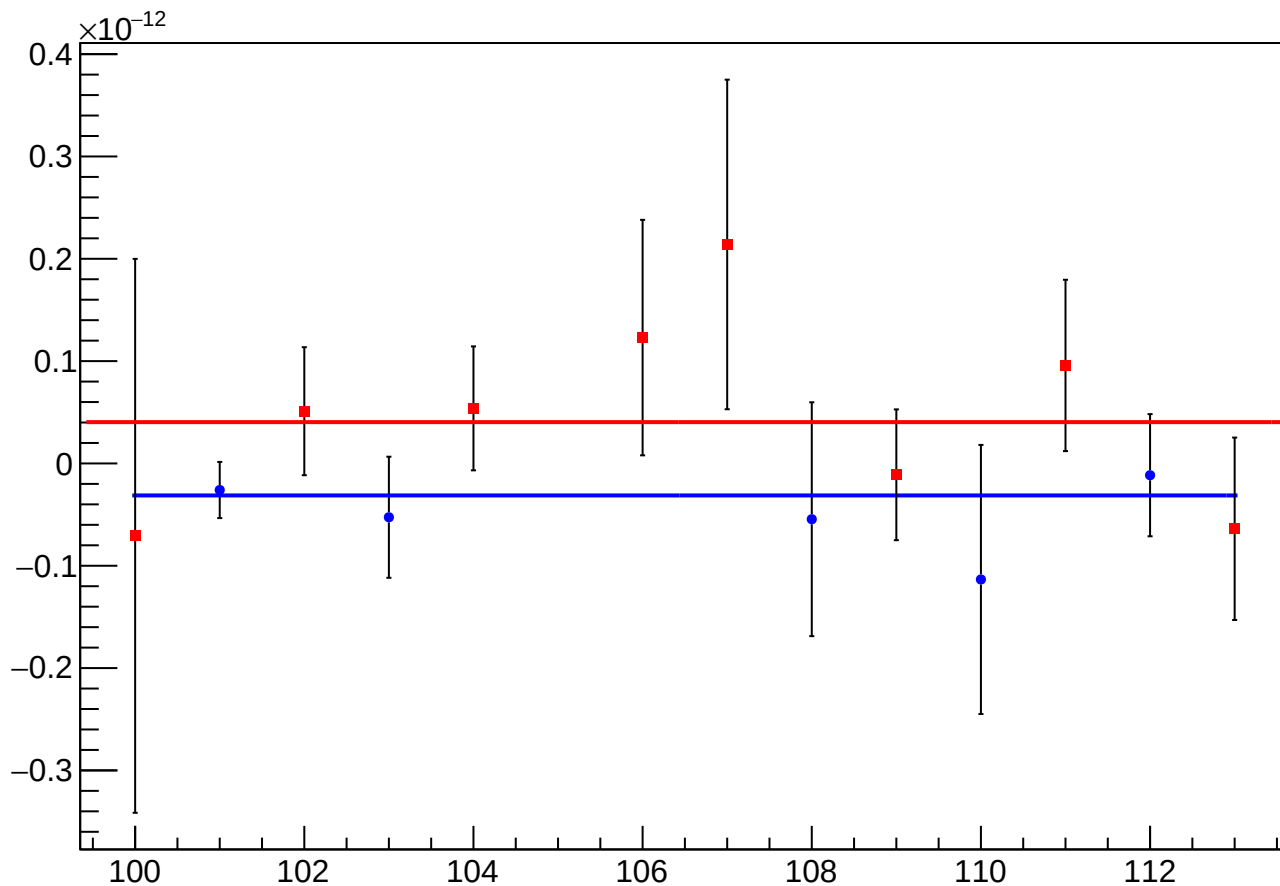
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.790+/-0.018  $\chi^2/\text{NDF}$ : 3063145.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 0.7/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 4.4/7

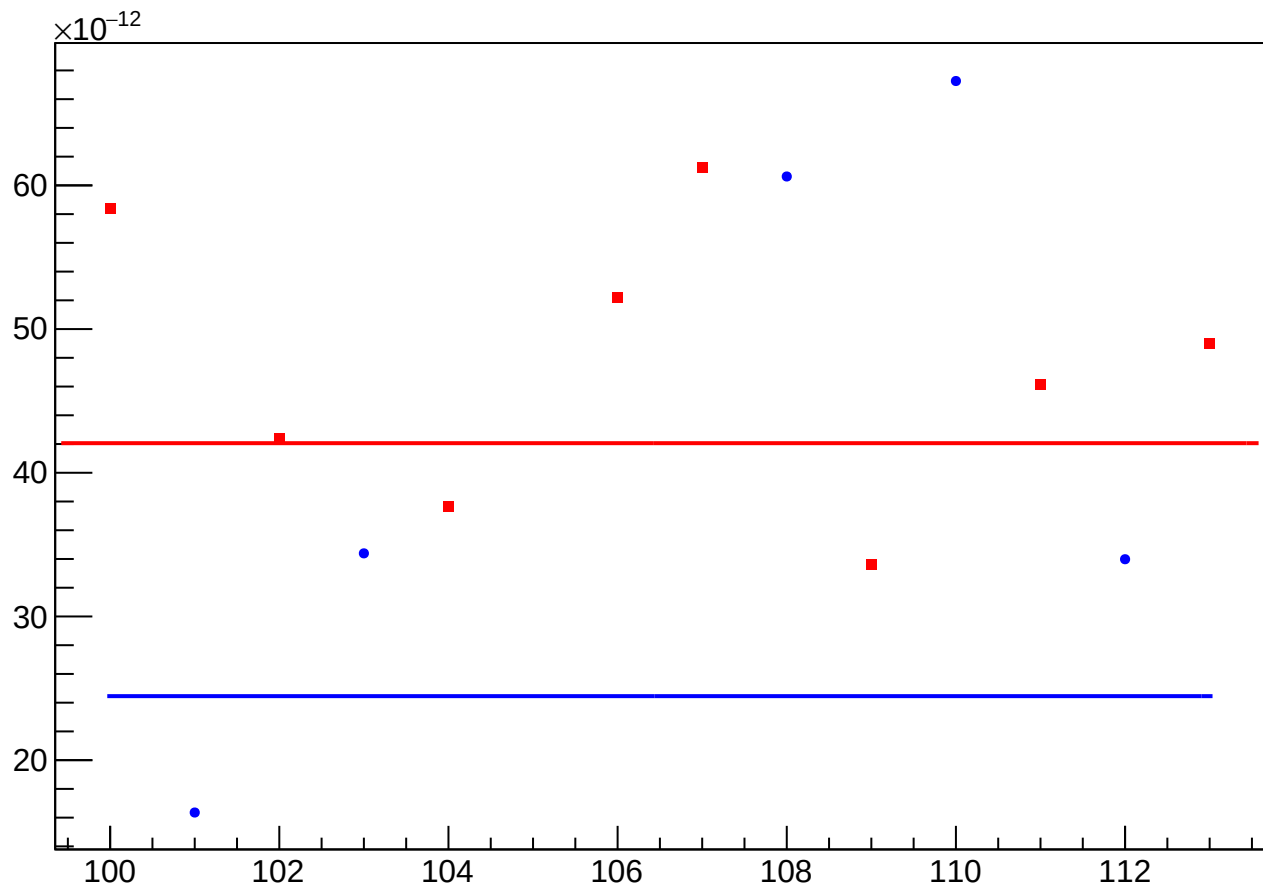
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 8.9/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 693877.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 113758.1/7

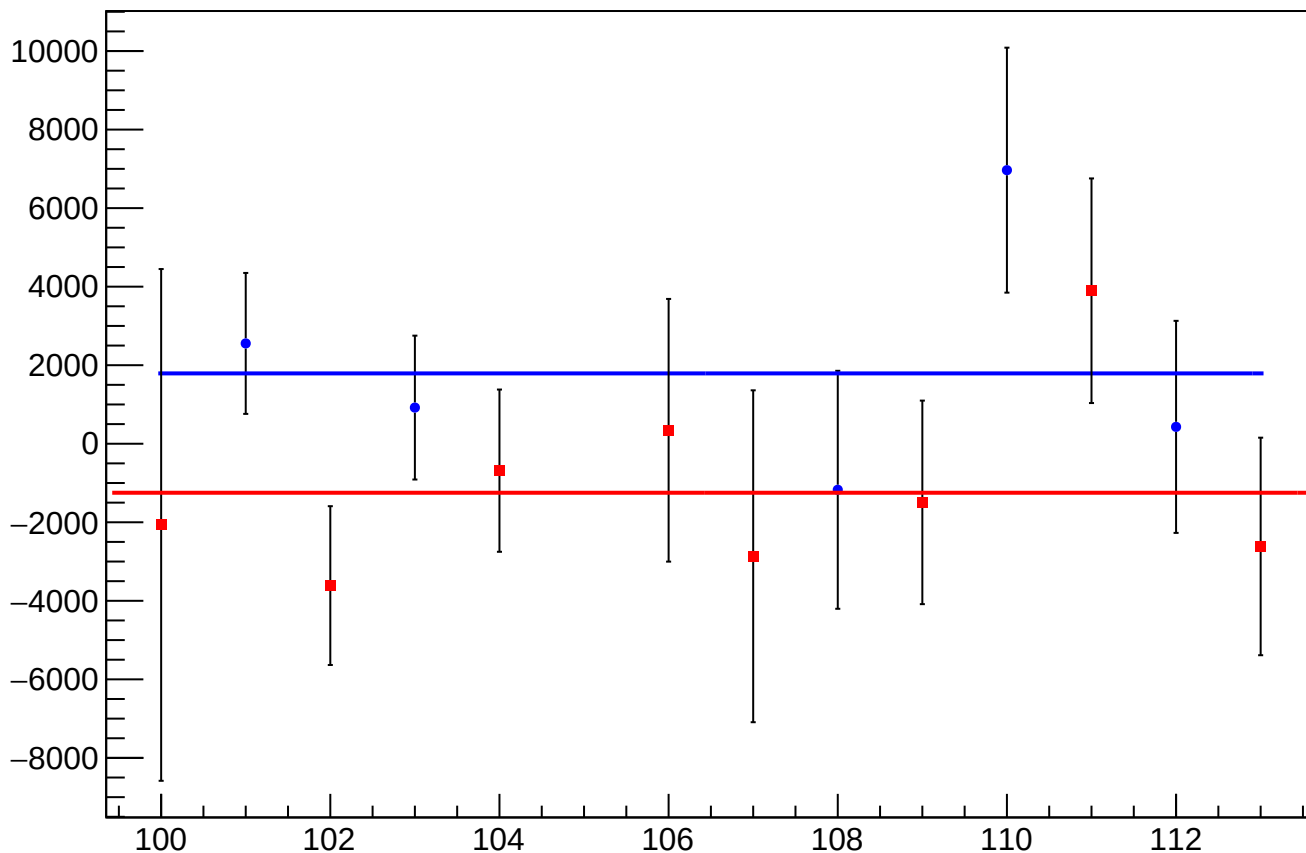
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1267390.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 1791.171 $\pm$ 1022.030  $\chi^2$ /NDF: 4.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1248.075 $\pm$ 976.228  $\chi^2$ /NDF: 5.3/7

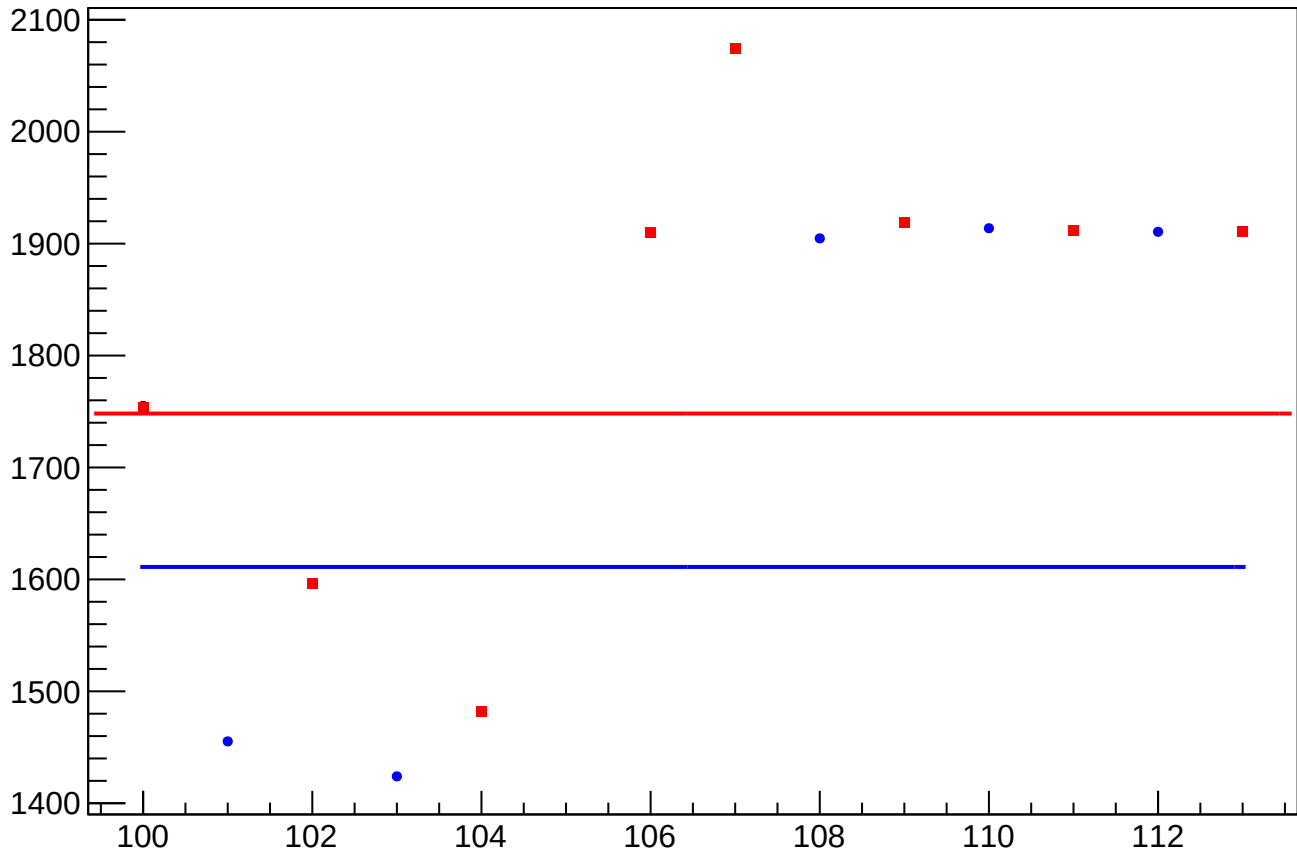
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 201.922 $\pm$ 705.934  $\chi^2$ /NDF: 14.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1611.140 $\pm$ 0.723  $\chi^2$ /NDF: 98152.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1748.190 $\pm$ 0.690  $\chi^2$ /NDF: 83228.1/7

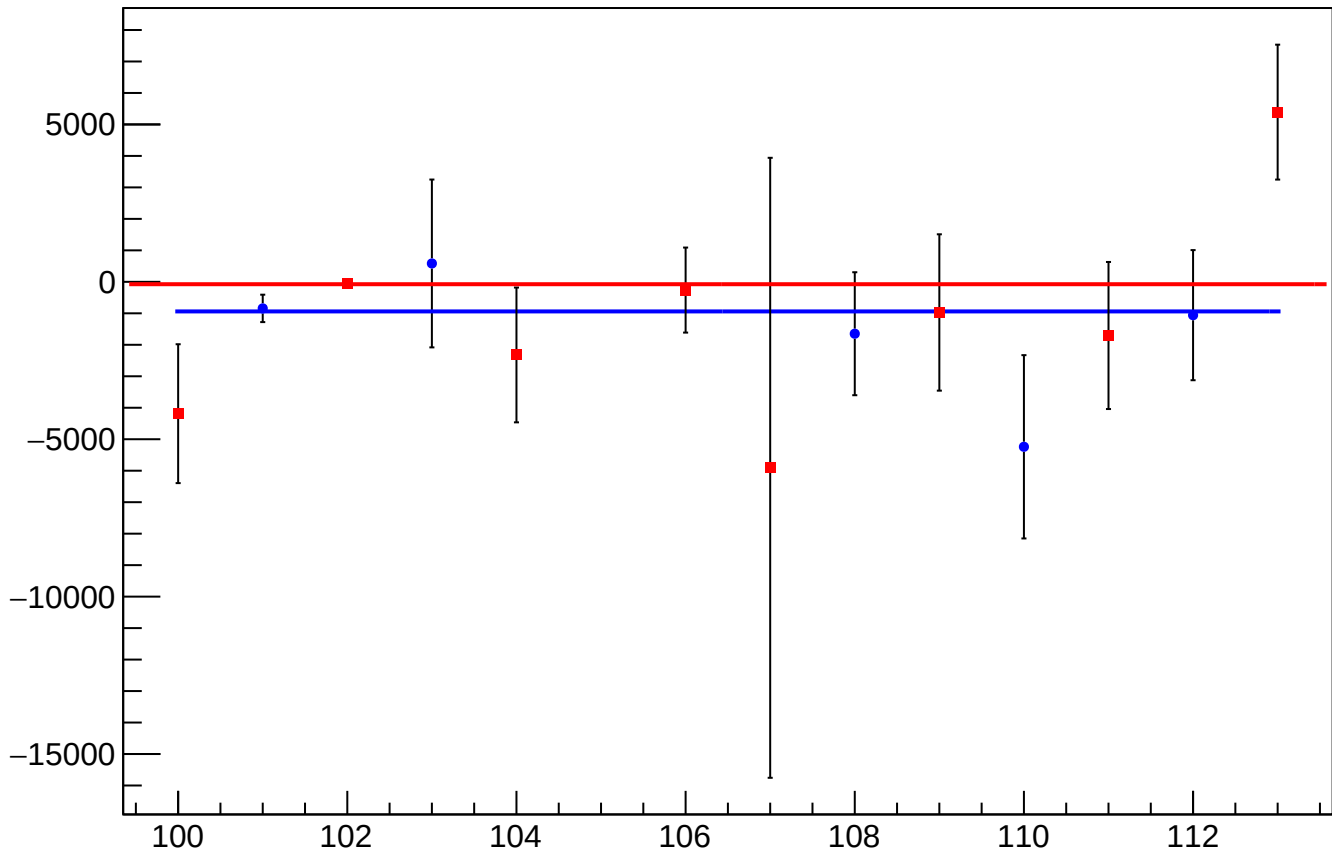
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1682.805 $\pm$ 0.499  $\chi^2$ /NDF: 200185.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_avg\_reg\_correction\_mean vs Slug



Right In: -939.739+/-407.239  $\chi^2/\text{NDF}$ : 2.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -75.358+/-135.762  $\chi^2/\text{NDF}$ : 12.1/7

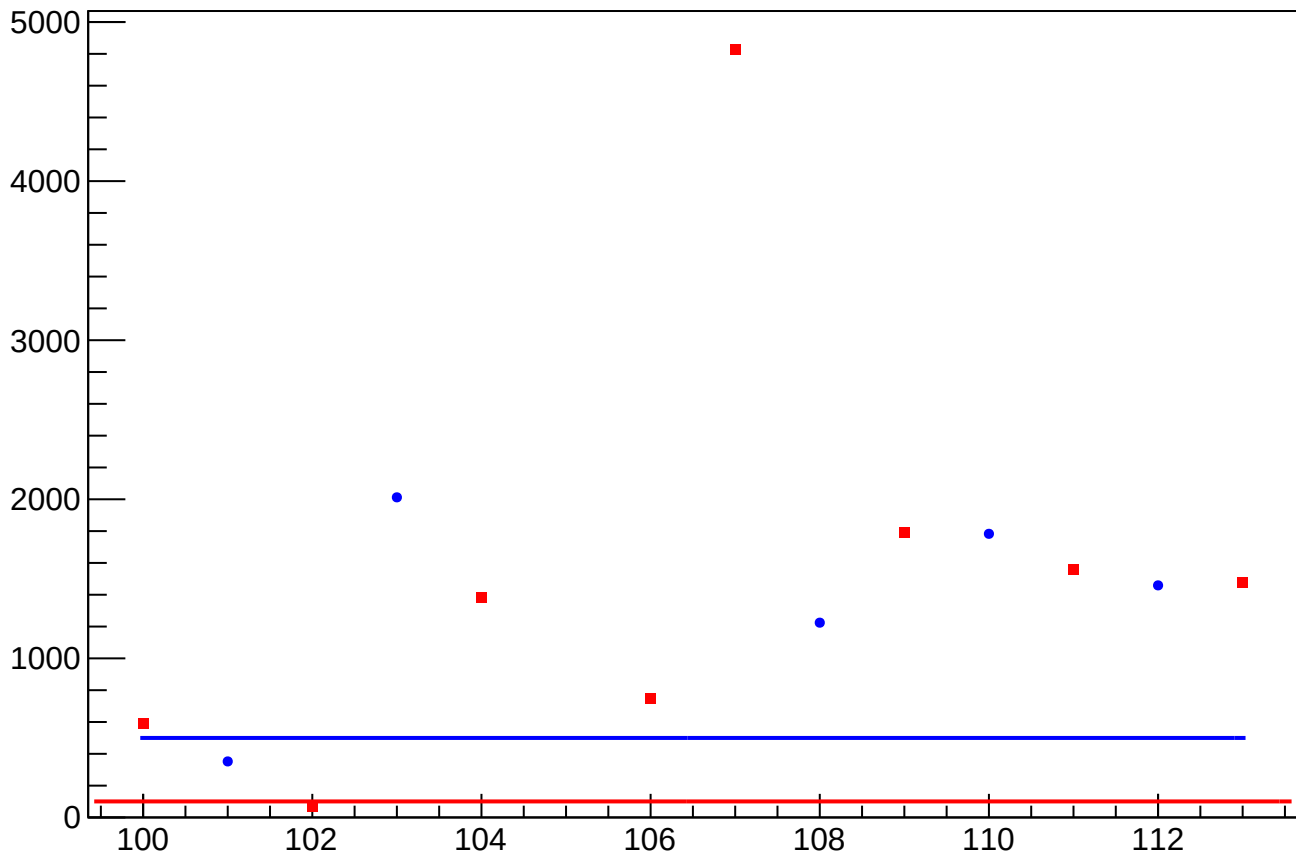
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -161.814+/-128.793  $\chi^2/\text{NDF}$ : 18.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_avg\_reg\_correction\_rms vs Slug



Right In: 499.821+/-0.288  $\chi^2/\text{NDF}$ : 1967919.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 100.740+/-0.096  $\chi^2/\text{NDF}$ : 4368508.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

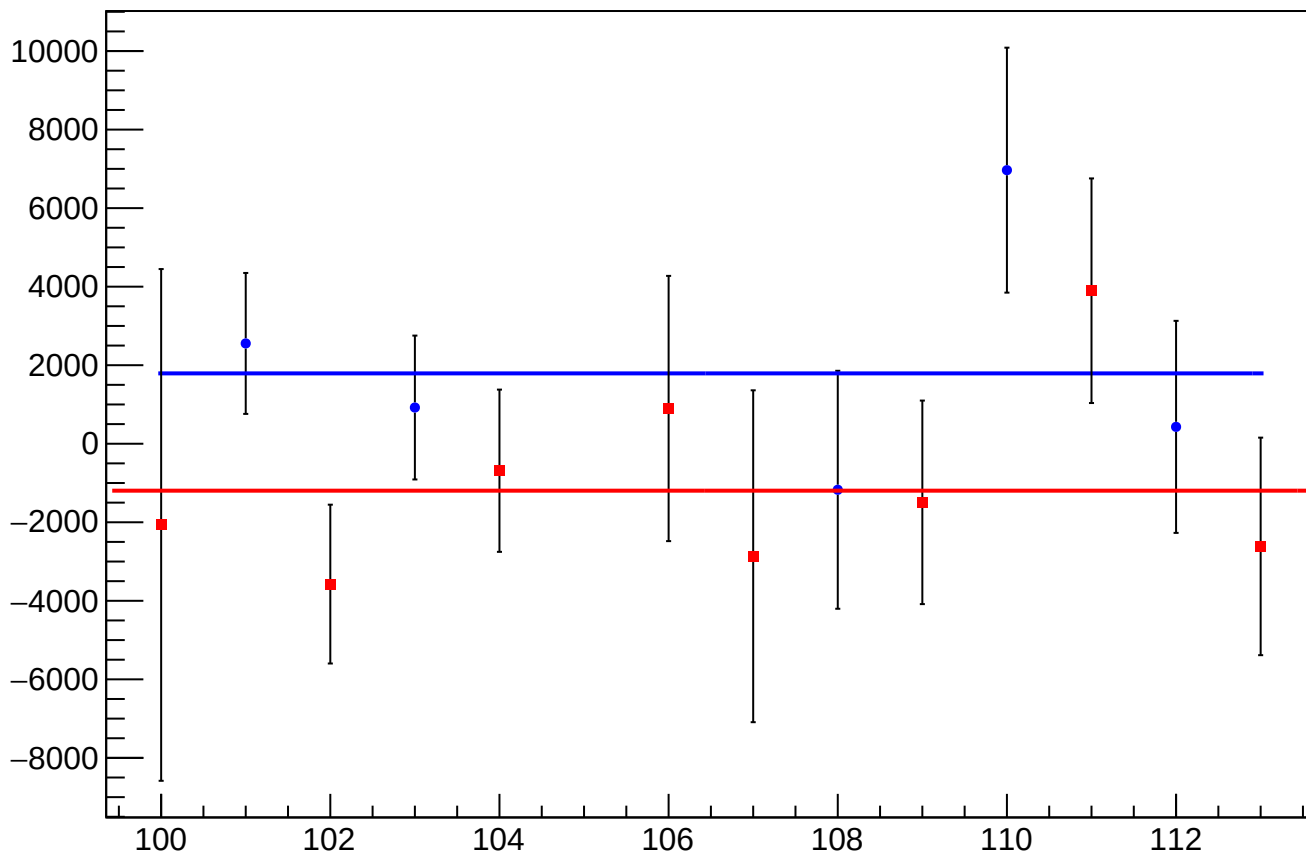
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 140.656+/-0.091  $\chi^2/\text{NDF}$ : 8064989.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 1791.665 $\pm$ 1022.030  $\chi^2$ /NDF: 4.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1195.303 $\pm$ 977.051  $\chi^2$ /NDF: 5.4/7

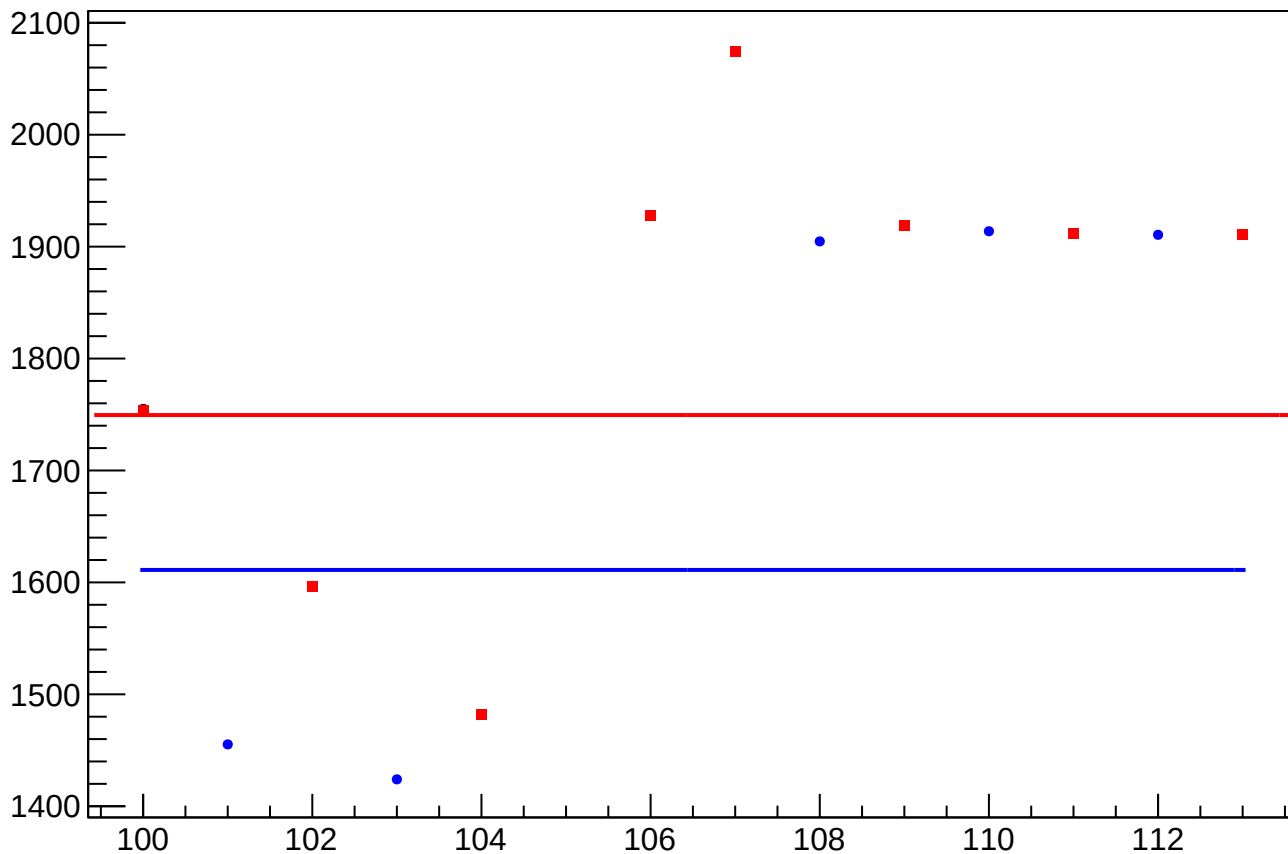
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 231.009 $\pm$ 706.245  $\chi^2$ /NDF: 14.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1611.141 $\pm$ 0.723  $\chi^2$ /NDF: 98152.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1749.518 $\pm$ 0.691  $\chi^2$ /NDF: 84201.0/7

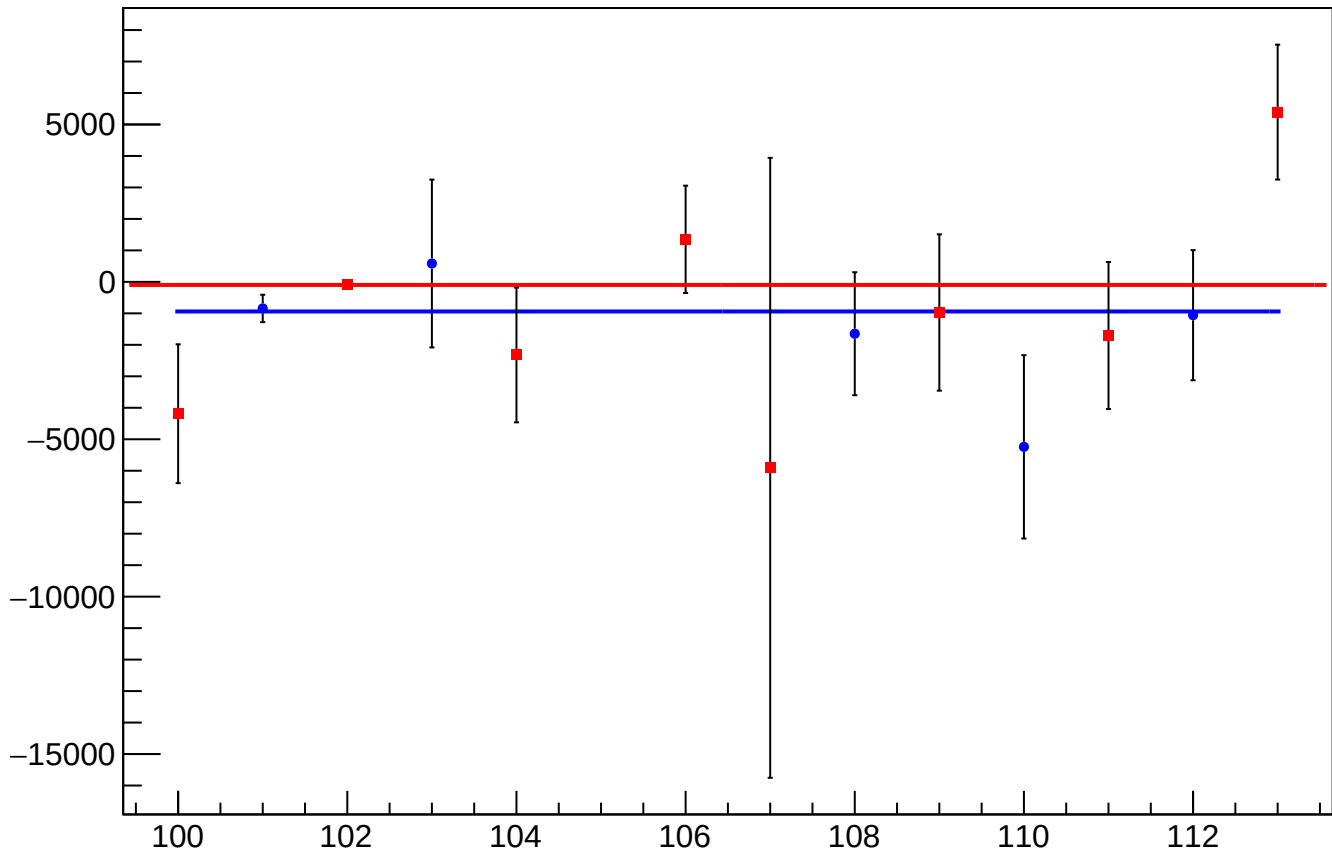
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1683.441 $\pm$ 0.499  $\chi^2$ /NDF: 201509.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_cor\_correction\_mean vs Slug



Right In: -939.818+/-407.239  $\chi^2/\text{NDF}$ : 2.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -97.771+/-148.512  $\chi^2/\text{NDF}$ : 12.7/7

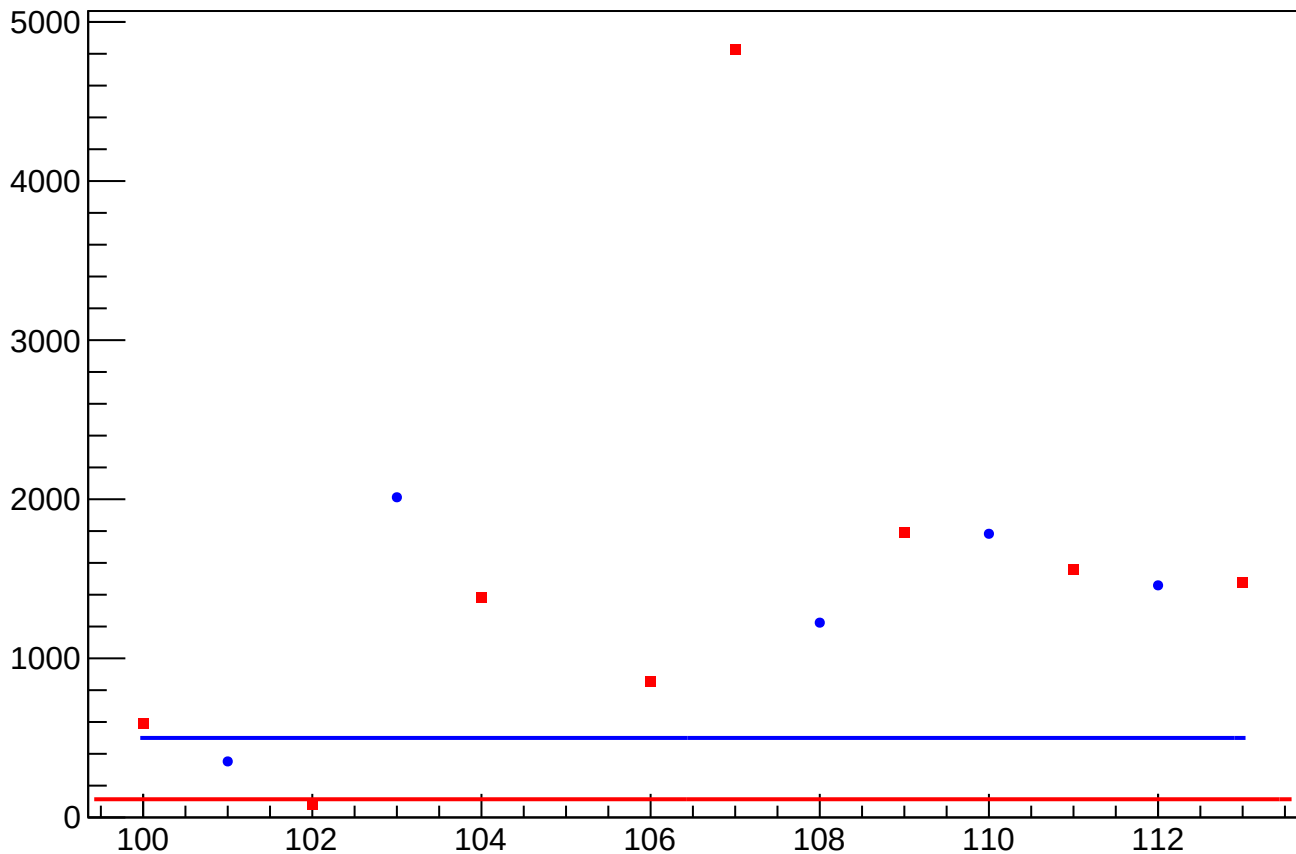
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -196.611+/-139.524  $\chi^2/\text{NDF}$ : 19.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_avg\_cor\_correction\_rms vs Slug



Right In: 499.817+/-0.288  $\chi^2/\text{NDF}$ : 1967933.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 114.412+/-0.105  $\chi^2/\text{NDF}$ : 4219706.8/7

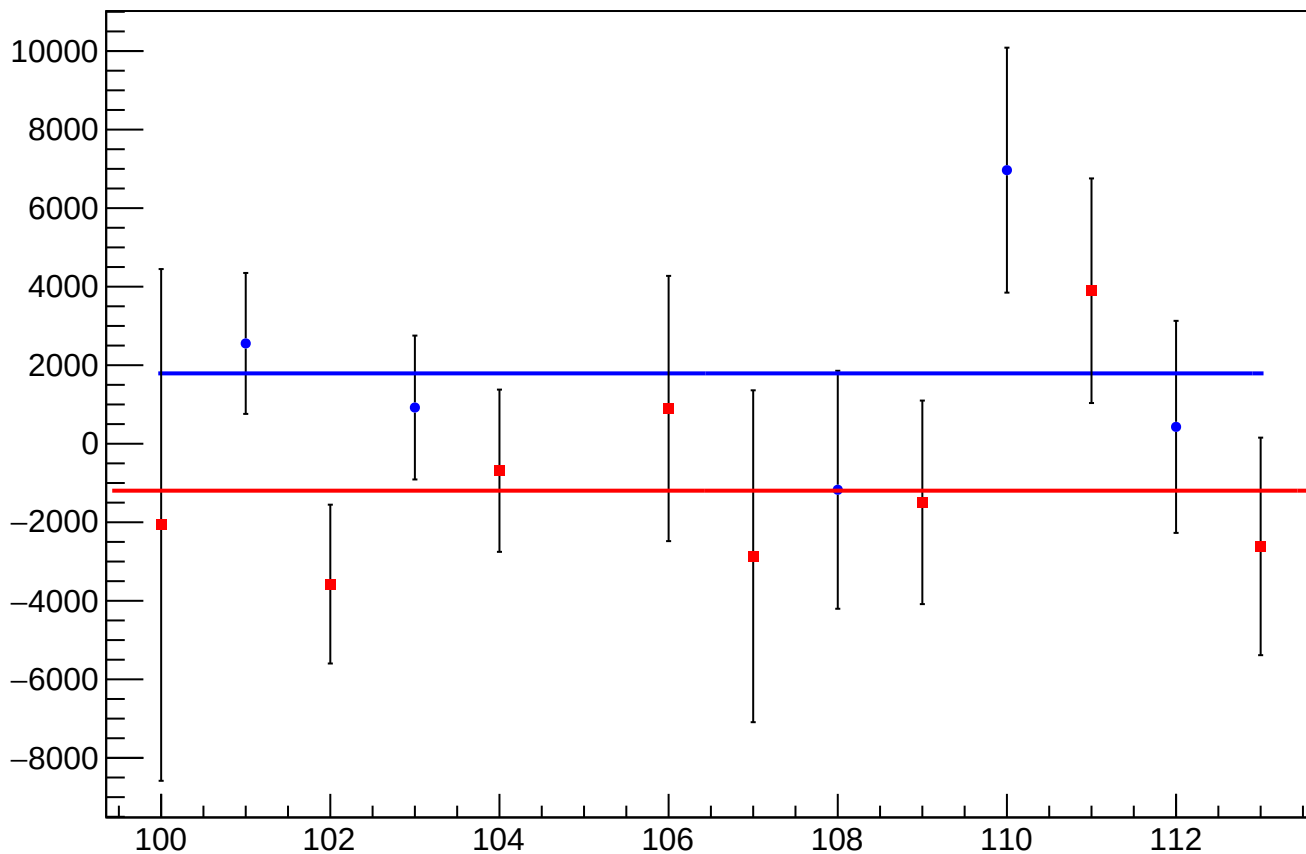
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 159.651+/-0.099  $\chi^2/\text{NDF}$ : 7768671.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 1791.665 $\pm$ 1022.030  $\chi^2$ /NDF: 4.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1195.303 $\pm$ 977.051  $\chi^2$ /NDF: 5.4/7

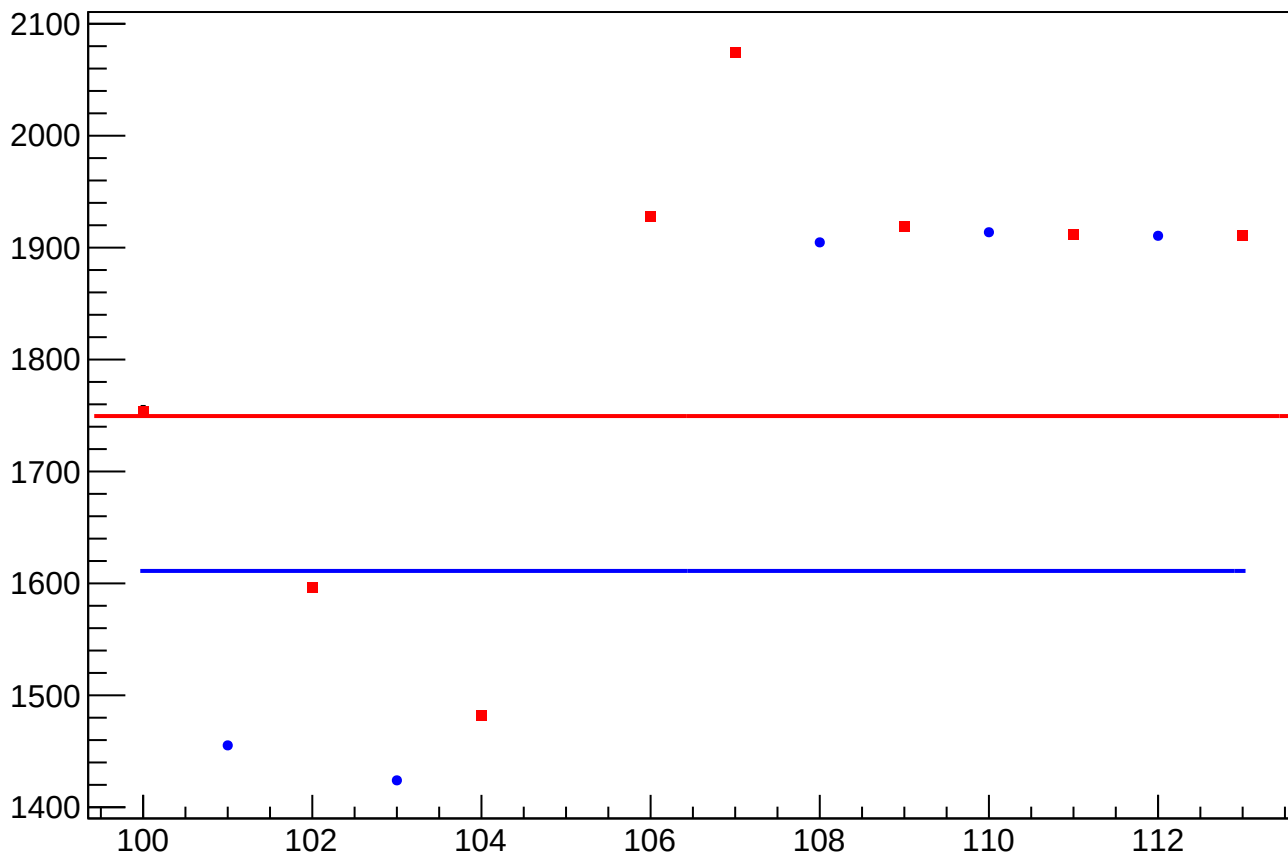
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 231.009 $\pm$ 706.245  $\chi^2$ /NDF: 14.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1611.141 $\pm$ 0.723  $\chi^2$ /NDF: 98152.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1749.518 $\pm$ 0.691  $\chi^2$ /NDF: 84201.0/7

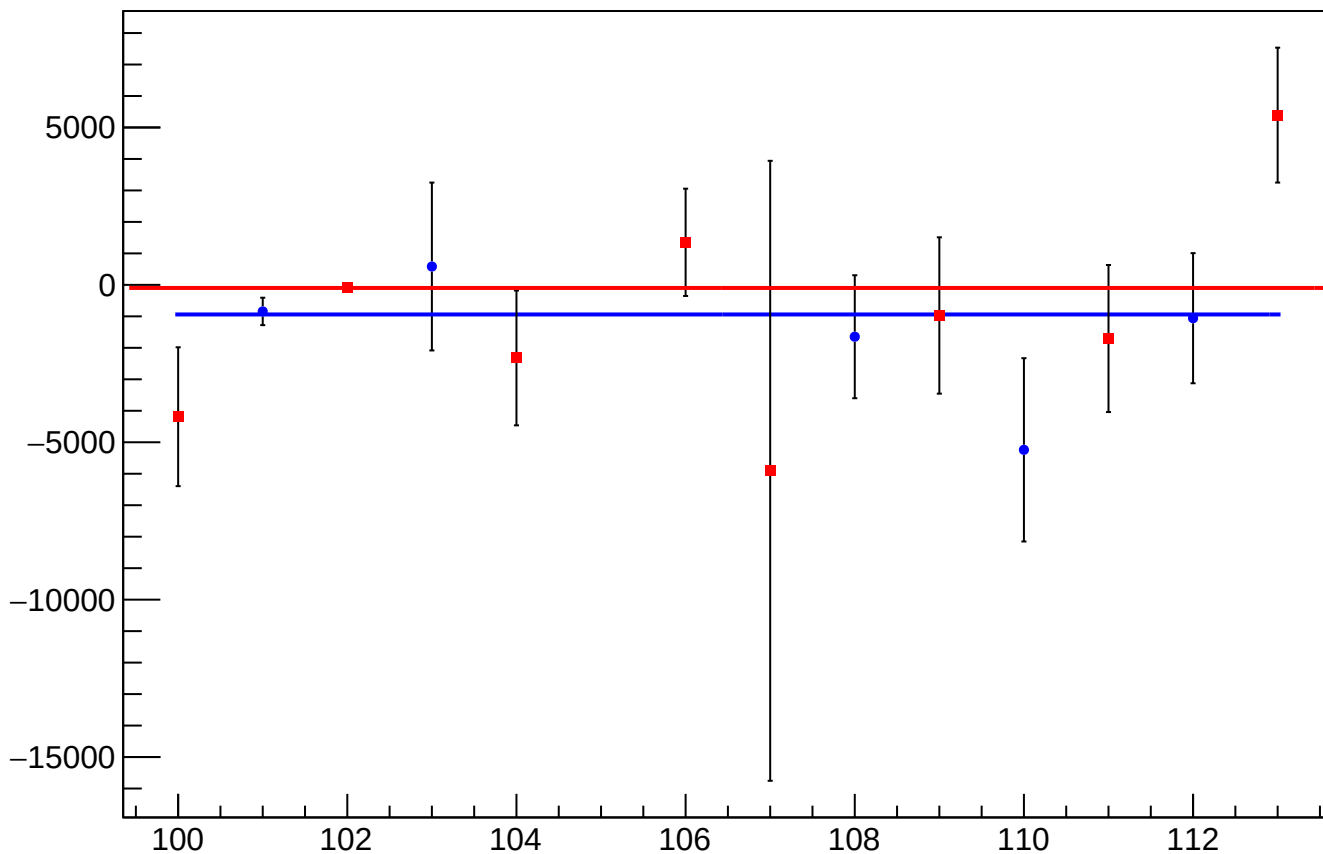
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1683.441 $\pm$ 0.499  $\chi^2$ /NDF: 201509.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -939.818 $\pm$ 407.239  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -97.771 $\pm$ 148.512  $\chi^2$ /NDF: 12.7/7

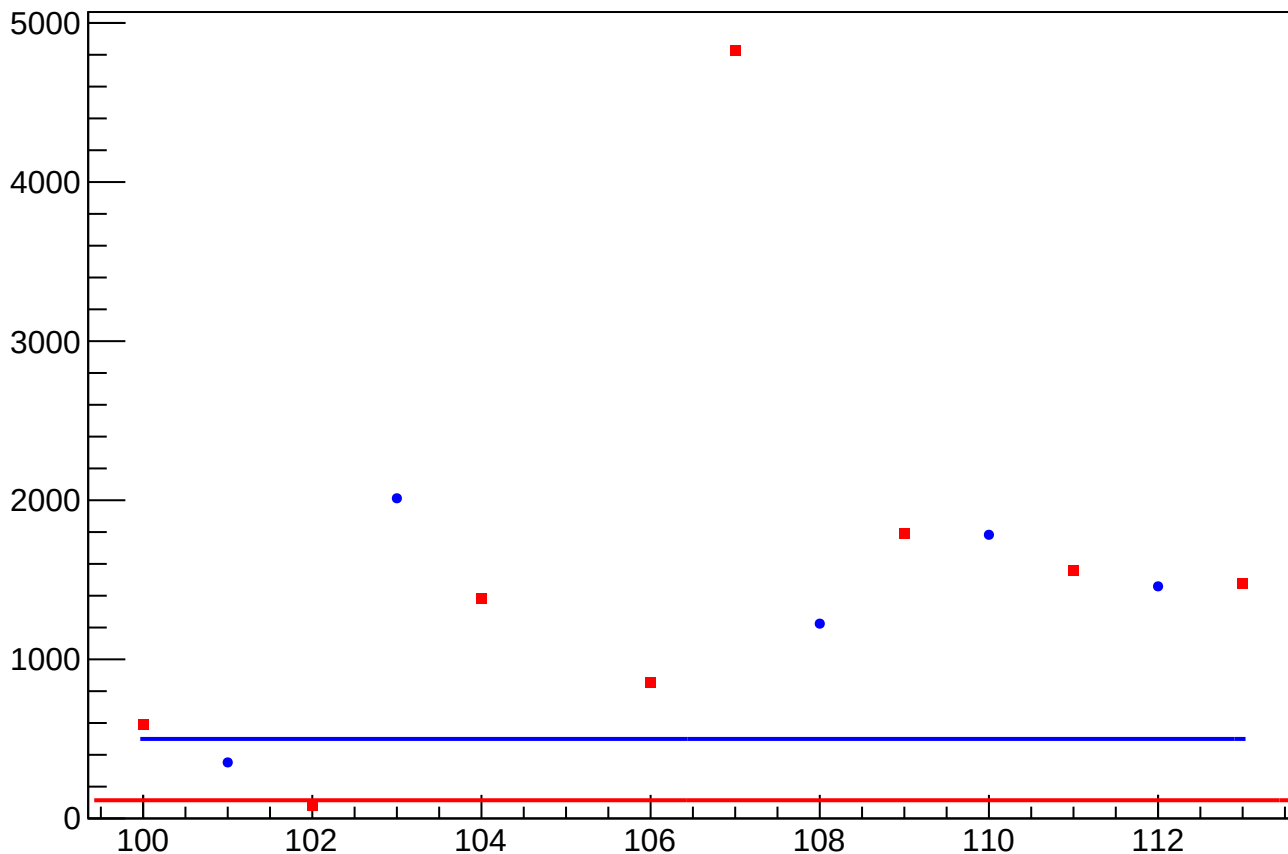
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -196.611 $\pm$ 139.524  $\chi^2$ /NDF: 19.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 499.817+/-0.288  $\chi^2/\text{NDF}$ : 1967933.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 114.412+/-0.105  $\chi^2/\text{NDF}$ : 4219706.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

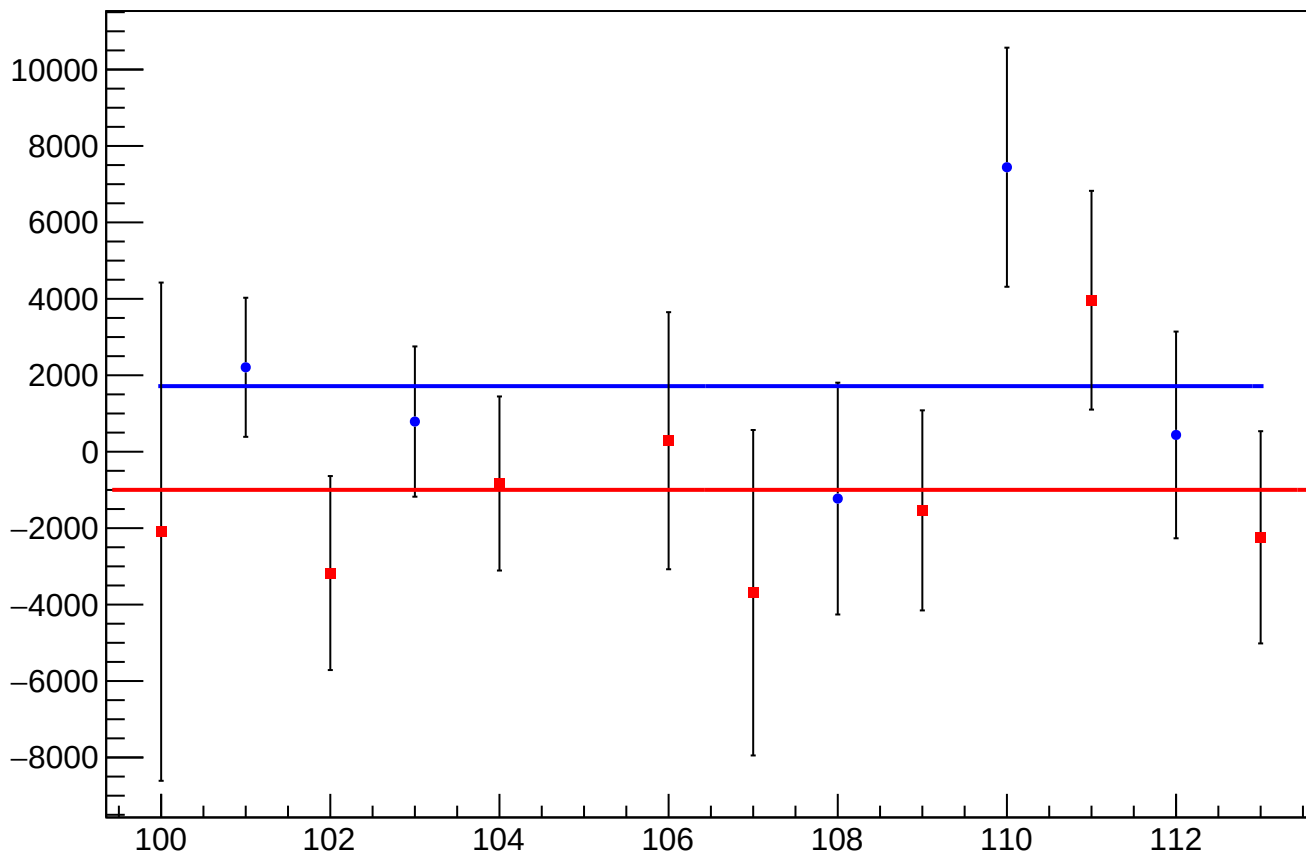
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 159.651+/-0.099  $\chi^2/\text{NDF}$ : 7768671.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 1715.788+/-1049.186  $\chi^2/\text{NDF}$ : 4.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -998.062+/-1046.597  $\chi^2/\text{NDF}$ : 4.6/7

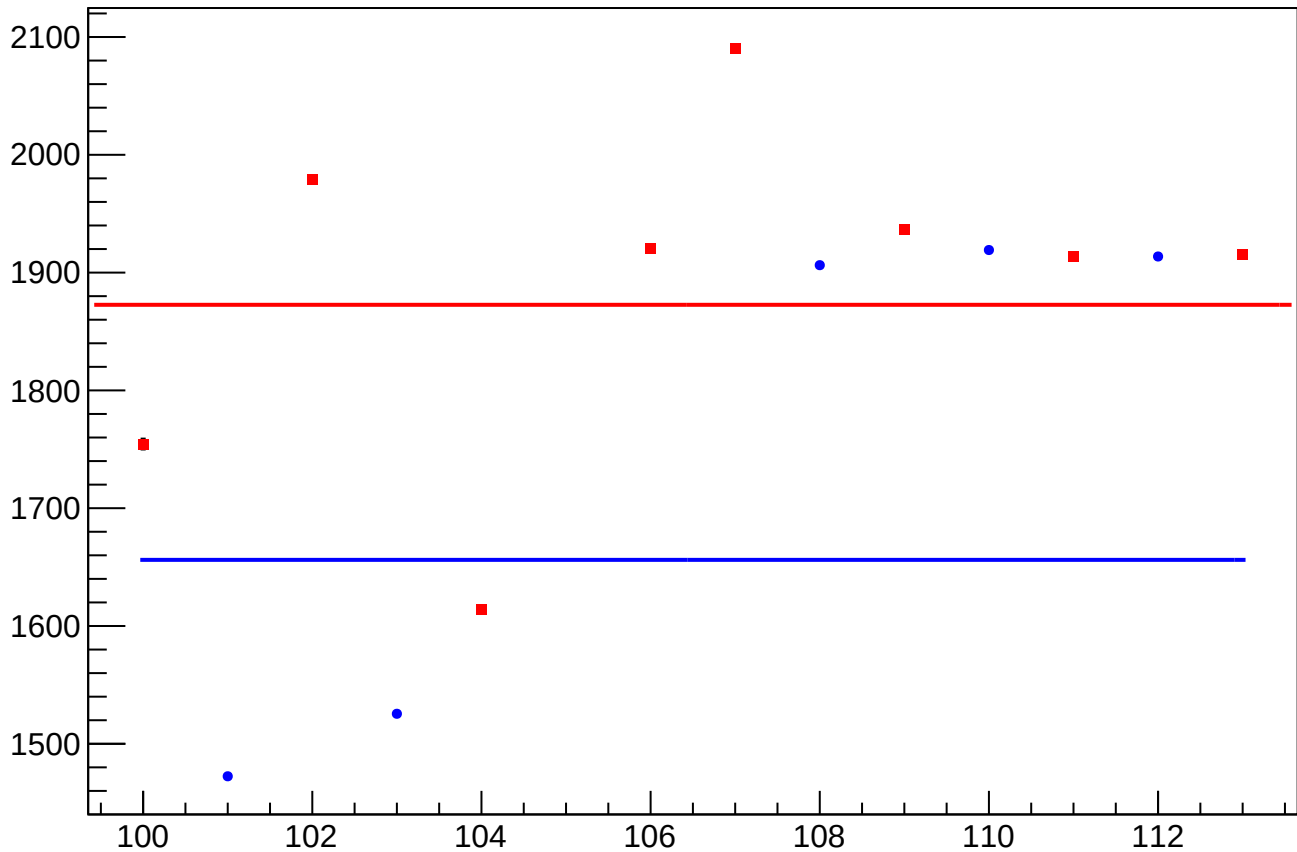
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 355.510+/-740.969  $\chi^2/\text{NDF}$ : 12.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1656.143+/-0.742  $\chi^2/\text{NDF}$ : 75111.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1872.665+/-0.740  $\chi^2/\text{NDF}$ : 37734.2/7

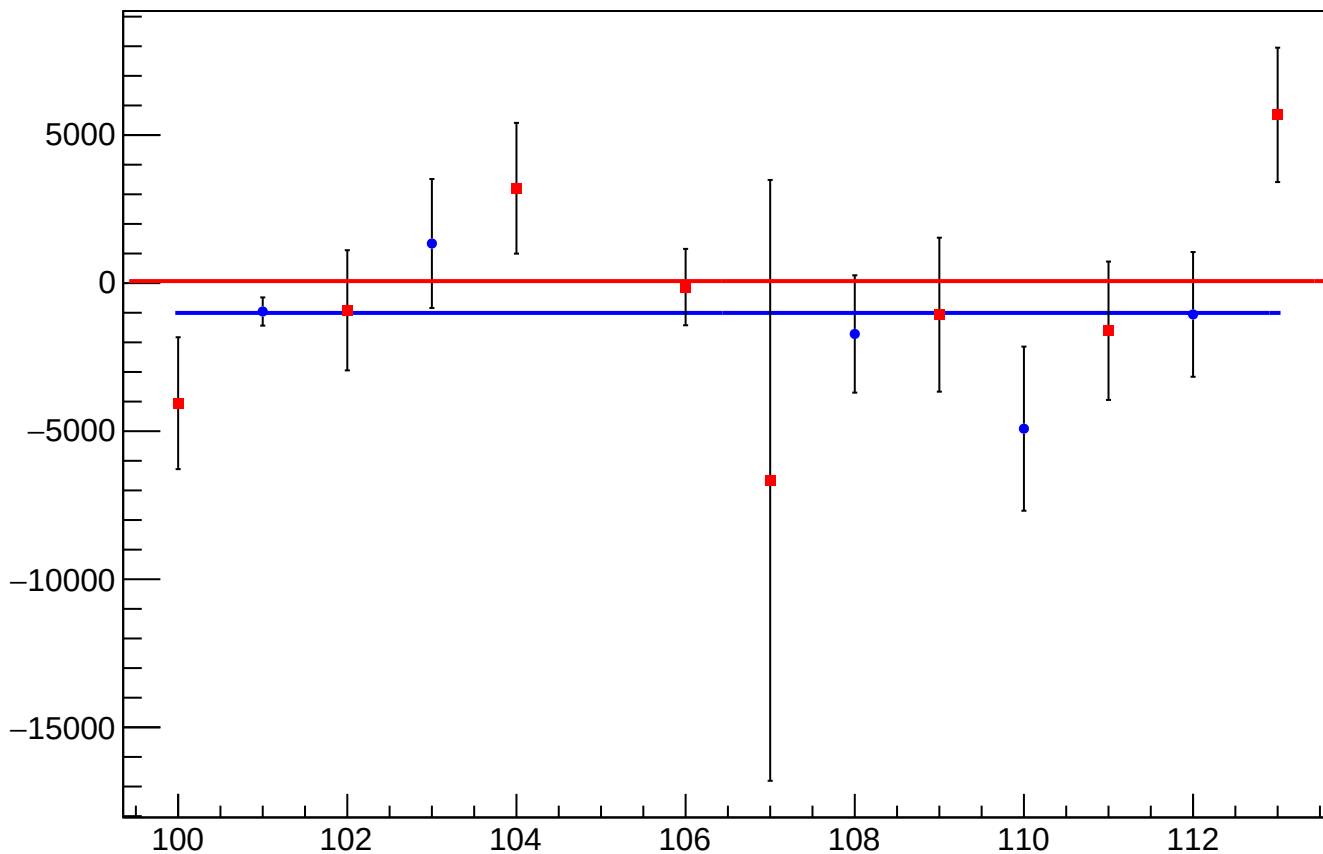
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1764.671+/-0.524  $\chi^2/\text{NDF}$ : 155540.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_avg\_dit\_correction\_mean vs Slug



Right In: -1005.644+/-437.750  $\chi^2/\text{NDF}$ : 3.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.231+/-748.371  $\chi^2/\text{NDF}$ : 13.0/7

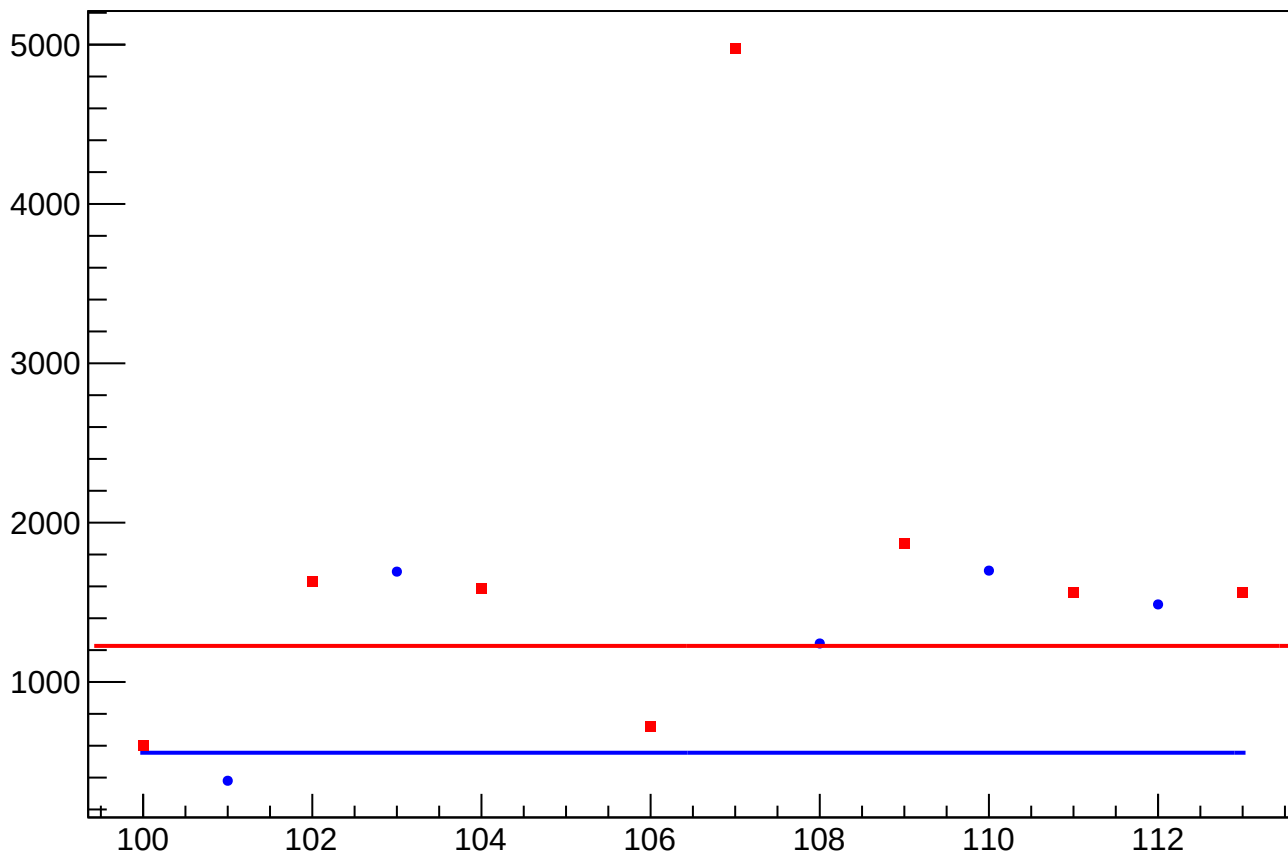
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -731.629+/-377.855  $\chi^2/\text{NDF}$ : 17.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_avg\_dit\_correction\_rms vs Slug



Right In: 555.999+/-0.310  $\chi^2/\text{NDF}$ : 1786943.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

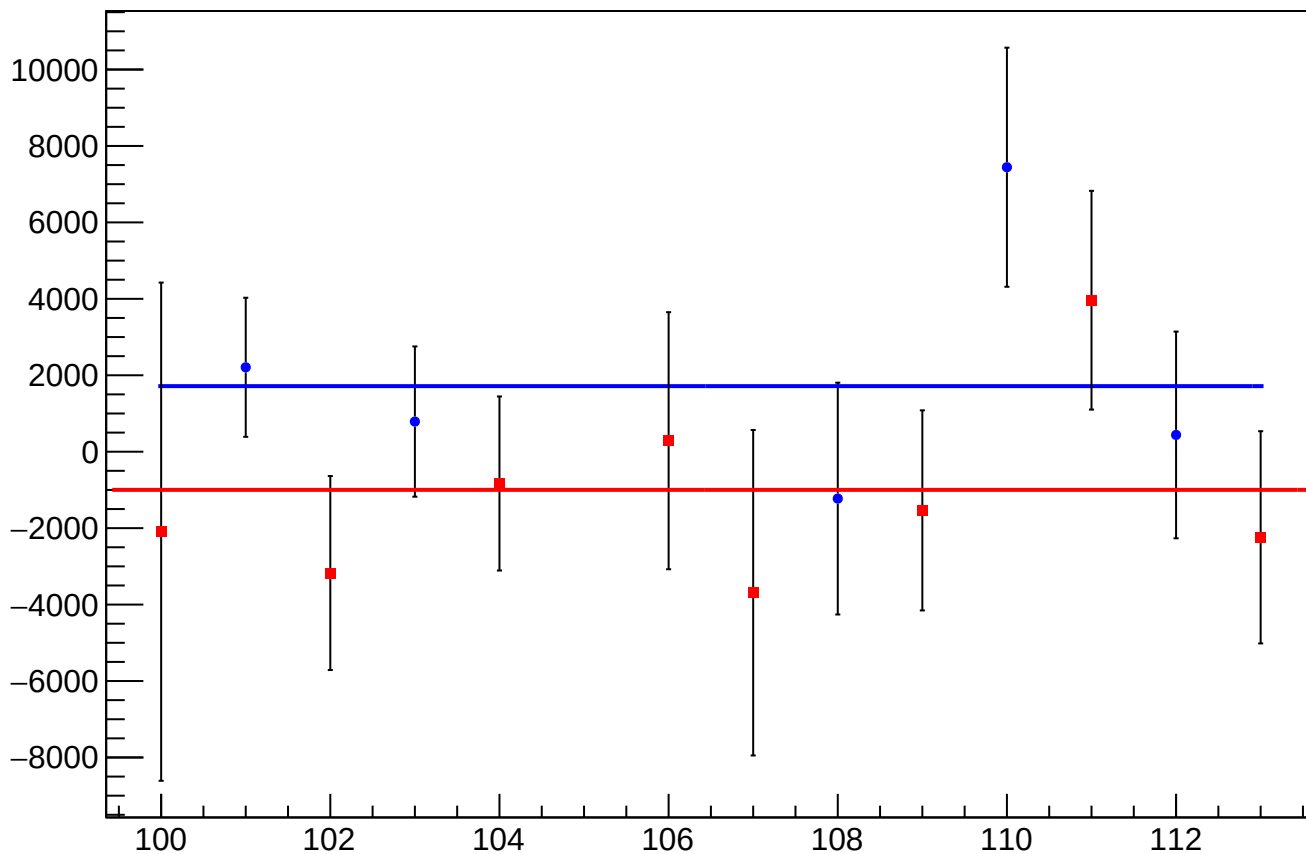
Right Out: 1226.470+/-0.529  $\chi^2/\text{NDF}$ : 1076509.9/7

All: 726.921+/-0.267  $\chi^2/\text{NDF}$ : 4059518.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 1715.784+/-1049.185  $\chi^2/\text{NDF}$ : 4.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -998.057+/-1046.596  $\chi^2/\text{NDF}$ : 4.6/7

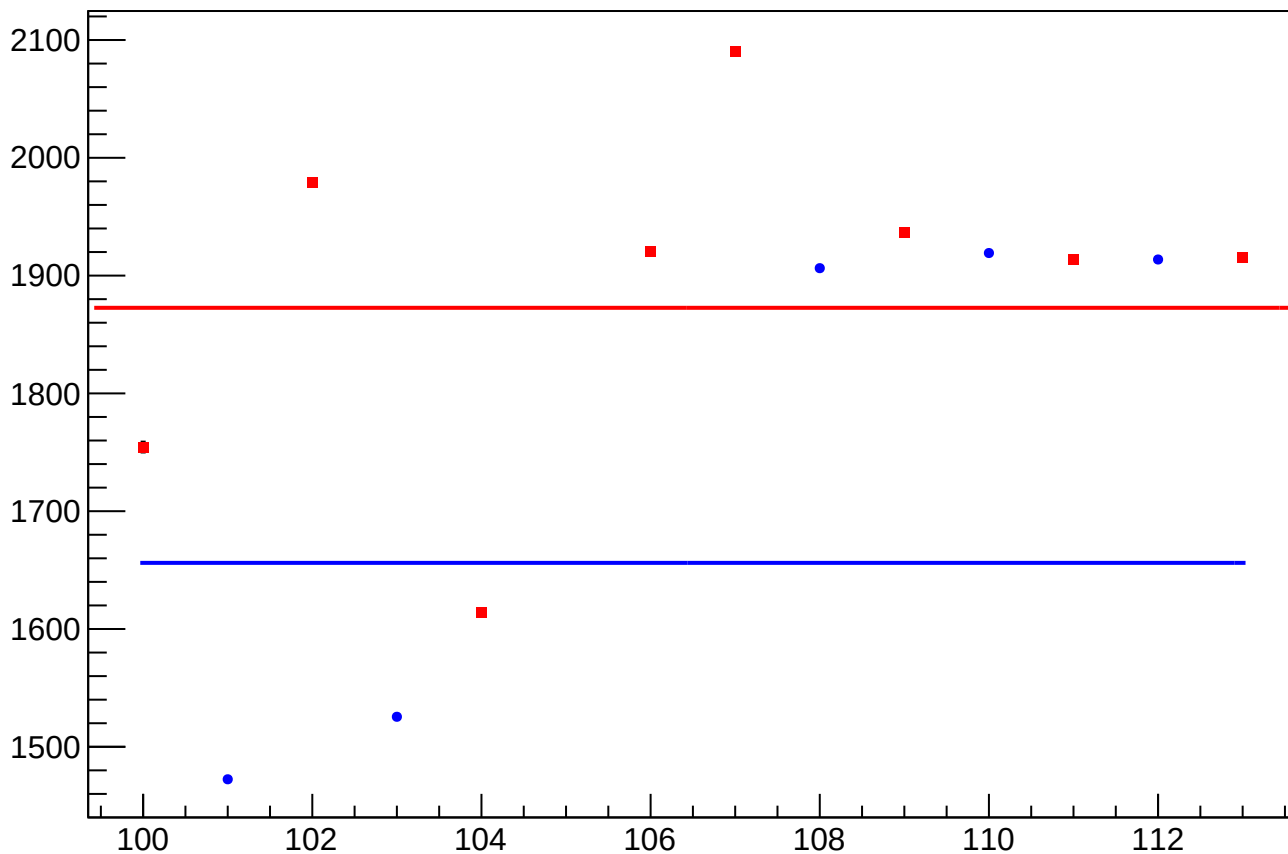
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 355.510+/-740.969  $\chi^2/\text{NDF}$ : 12.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1656.142 $\pm$ 0.742  $\chi^2$ /NDF: 75112.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1872.664 $\pm$ 0.740  $\chi^2$ /NDF: 37734.9/7

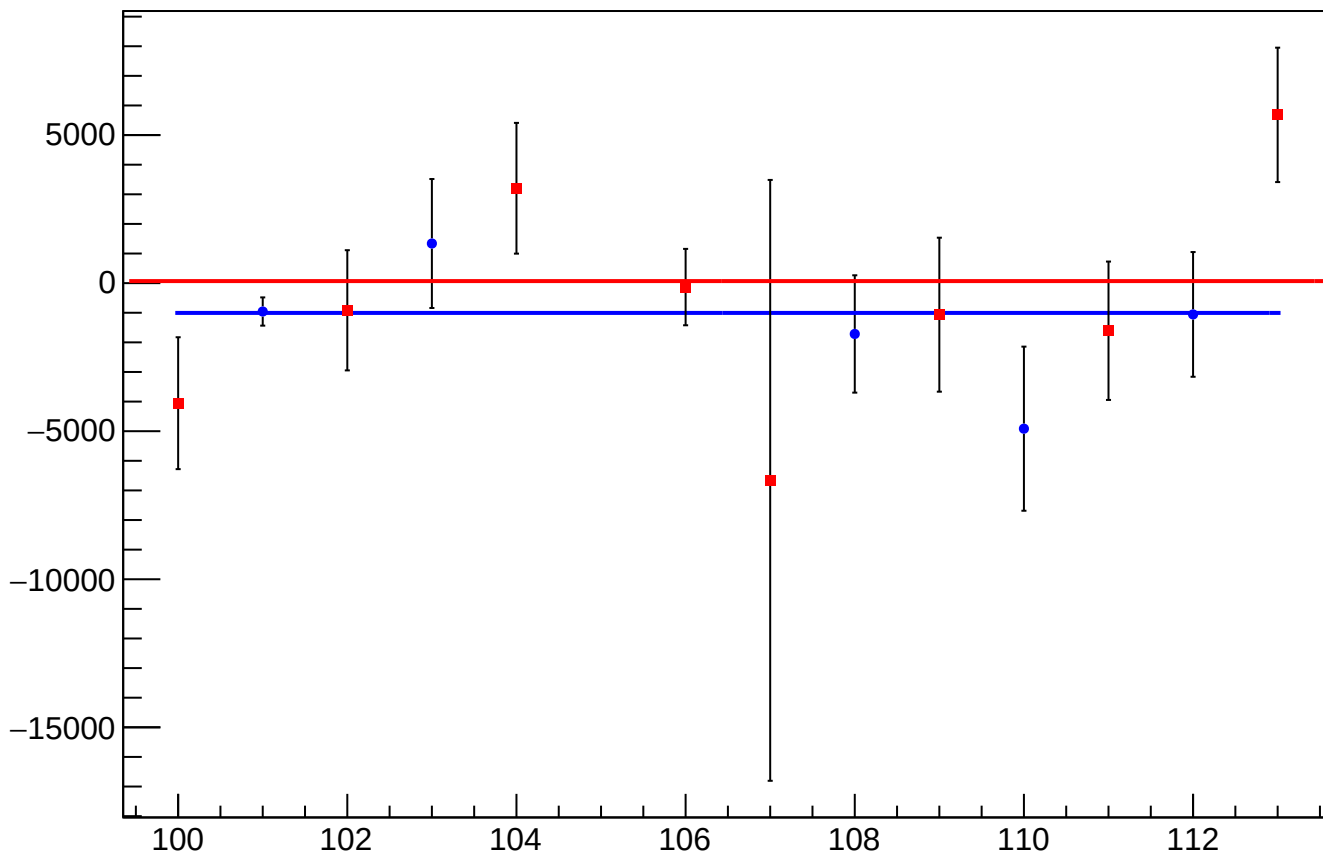
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1764.670 $\pm$ 0.524  $\chi^2$ /NDF: 155541.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -1005.648 $\pm$ 437.750  $\chi^2$ /NDF: 3.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 69.232 $\pm$ 748.372  $\chi^2$ /NDF: 13.0/7

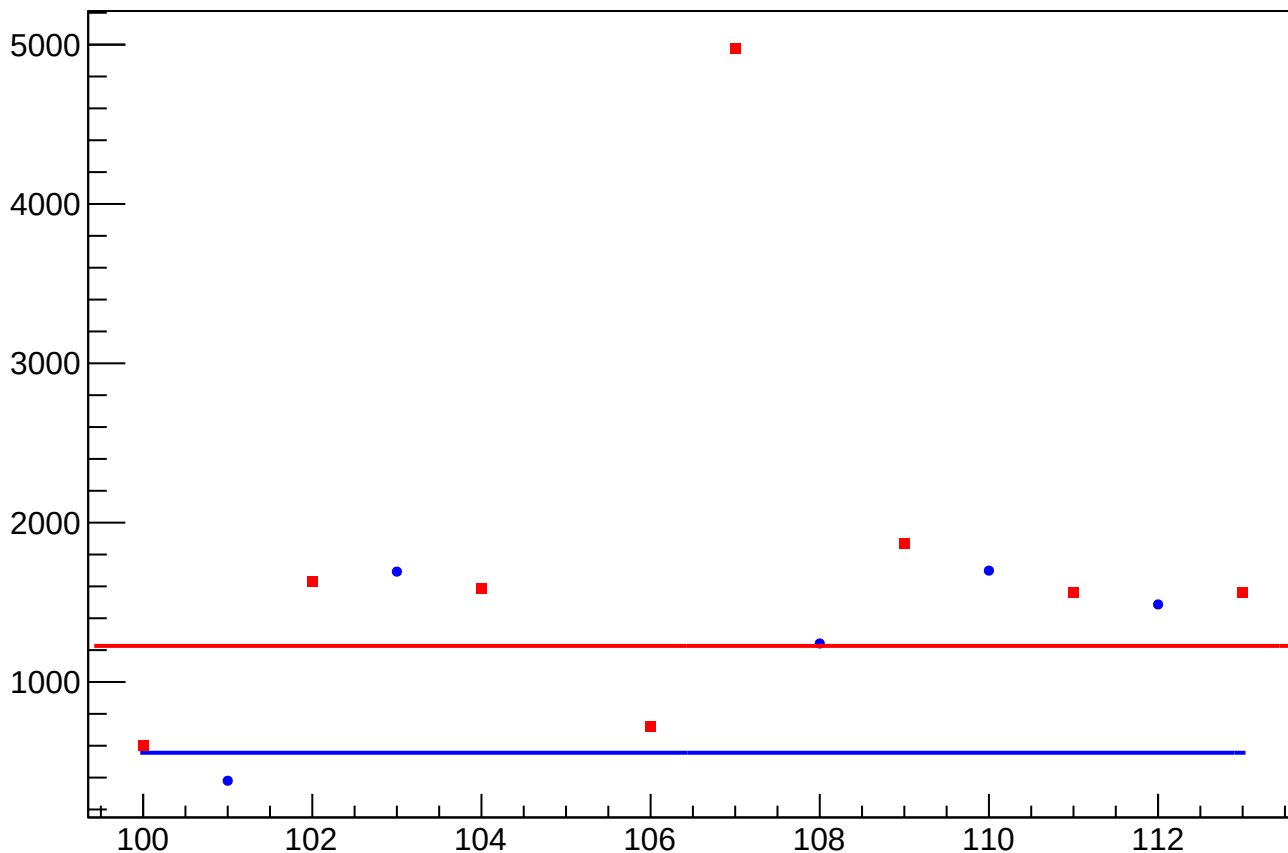
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -731.631 $\pm$ 377.856  $\chi^2$ /NDF: 17.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 556.000+/-0.310  $\chi^2/\text{NDF}$ : 1786941.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1226.471+/-0.529  $\chi^2/\text{NDF}$ : 1076510.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

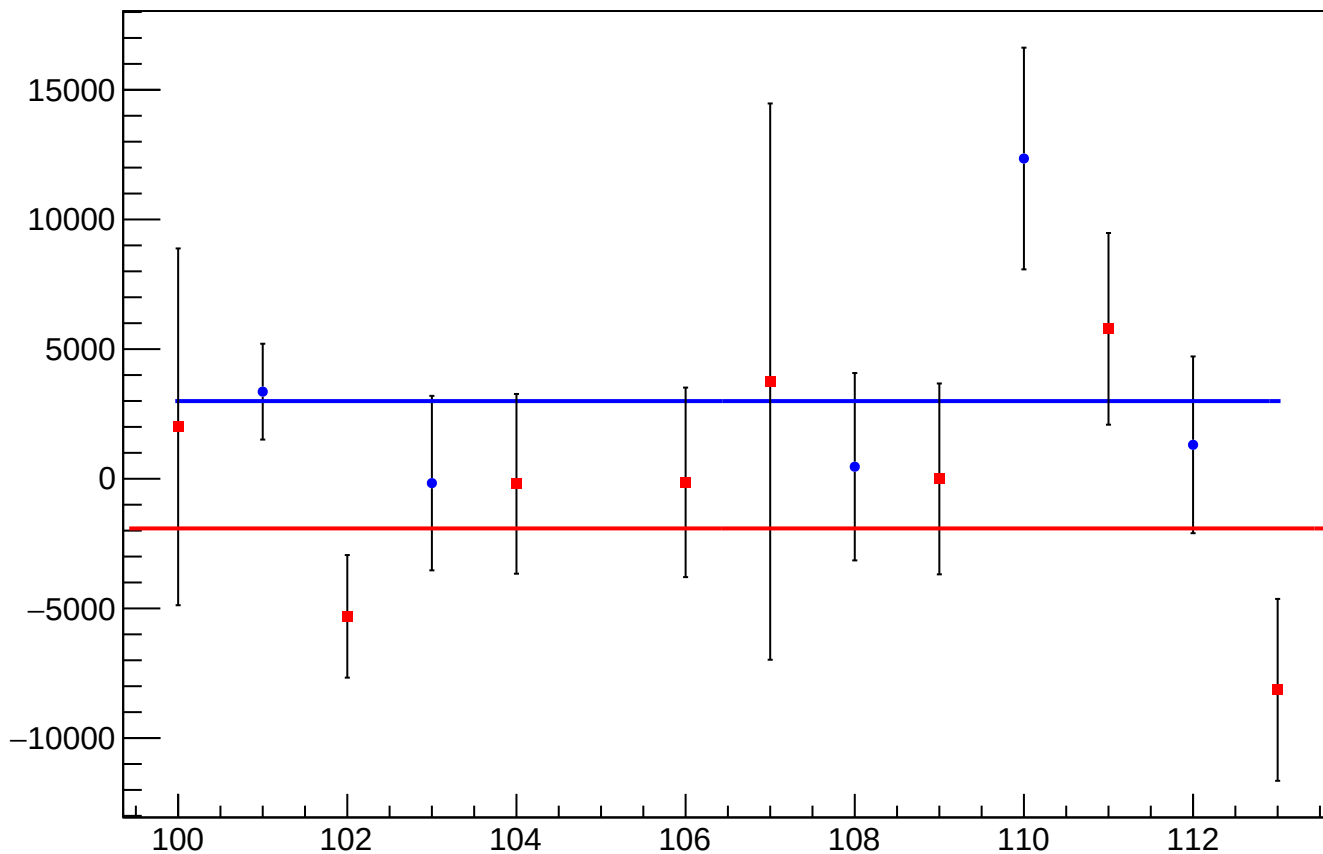
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 726.922+/-0.267  $\chi^2/\text{NDF}$ : 4059513.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 2995.378+/-1292.474  $\chi^2/\text{NDF}$ : 6.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1915.555+/-1296.205  $\chi^2/\text{NDF}$ : 10.9/7

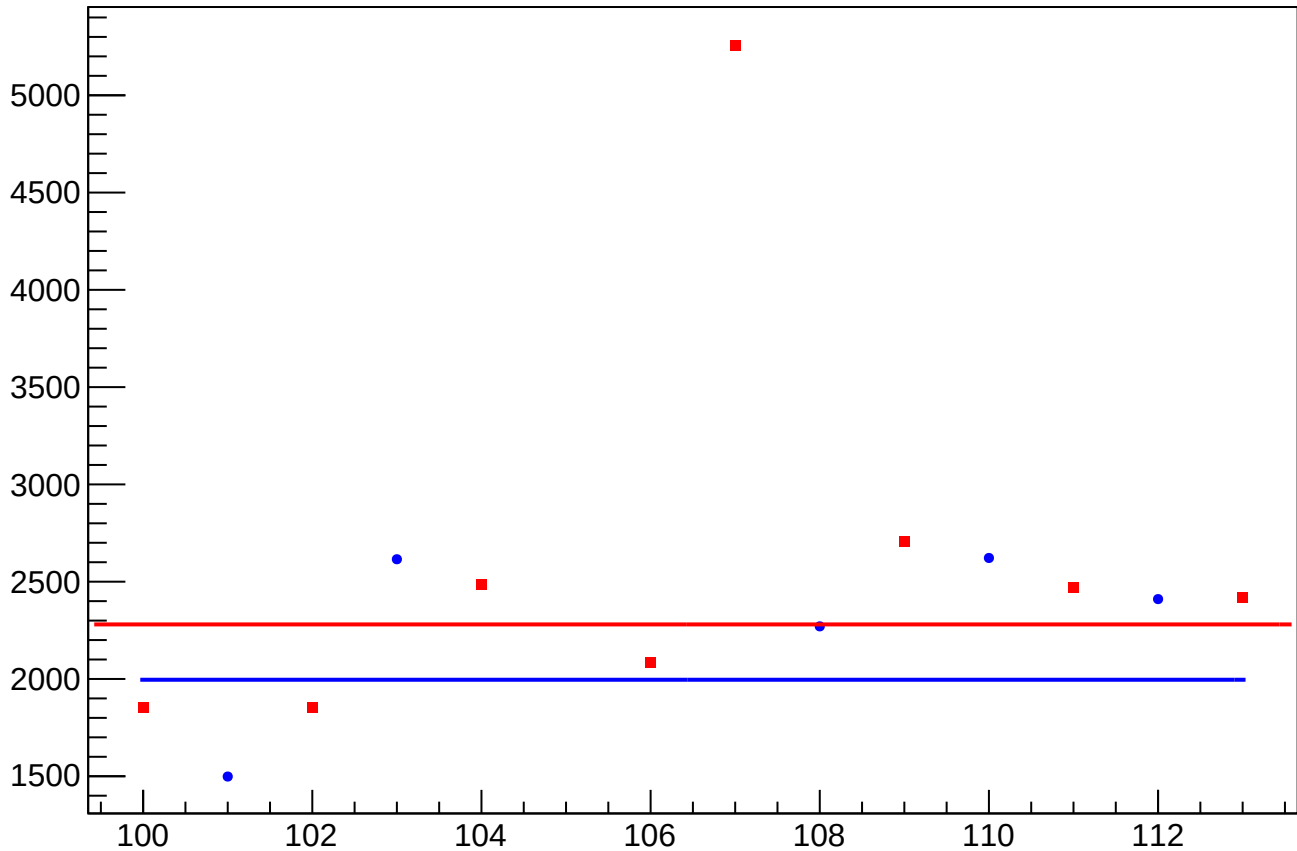
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 546.989+/-915.233  $\chi^2/\text{NDF}$ : 24.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1995.956+/-0.914  $\chi^2/\text{NDF}$ : 296781.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2280.339+/-0.917  $\chi^2/\text{NDF}$ : 274669.0/7

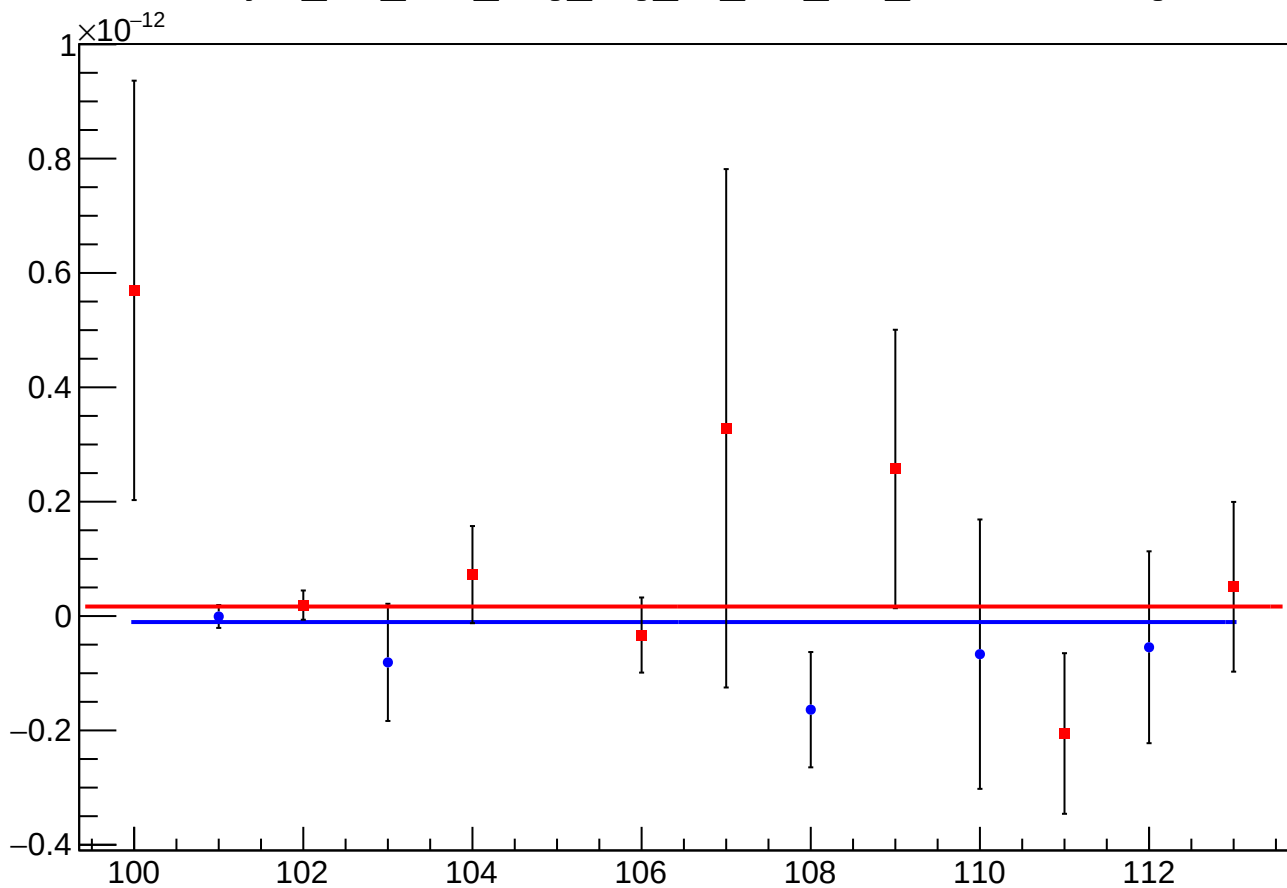
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2137.738+/-0.647  $\chi^2/\text{NDF}$ : 619724.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 3.1/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 7.3/7

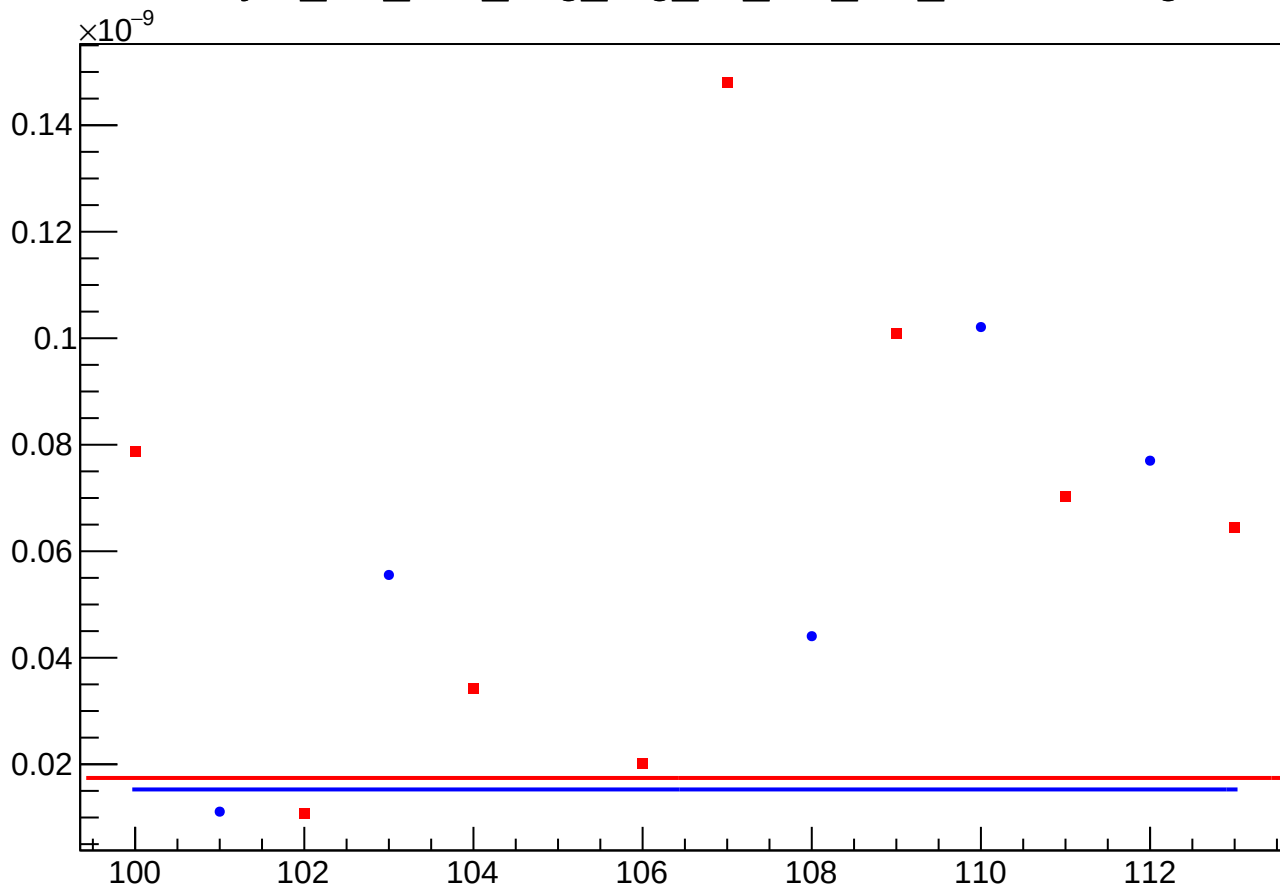
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 11.3/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1101531.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1161223.9/7

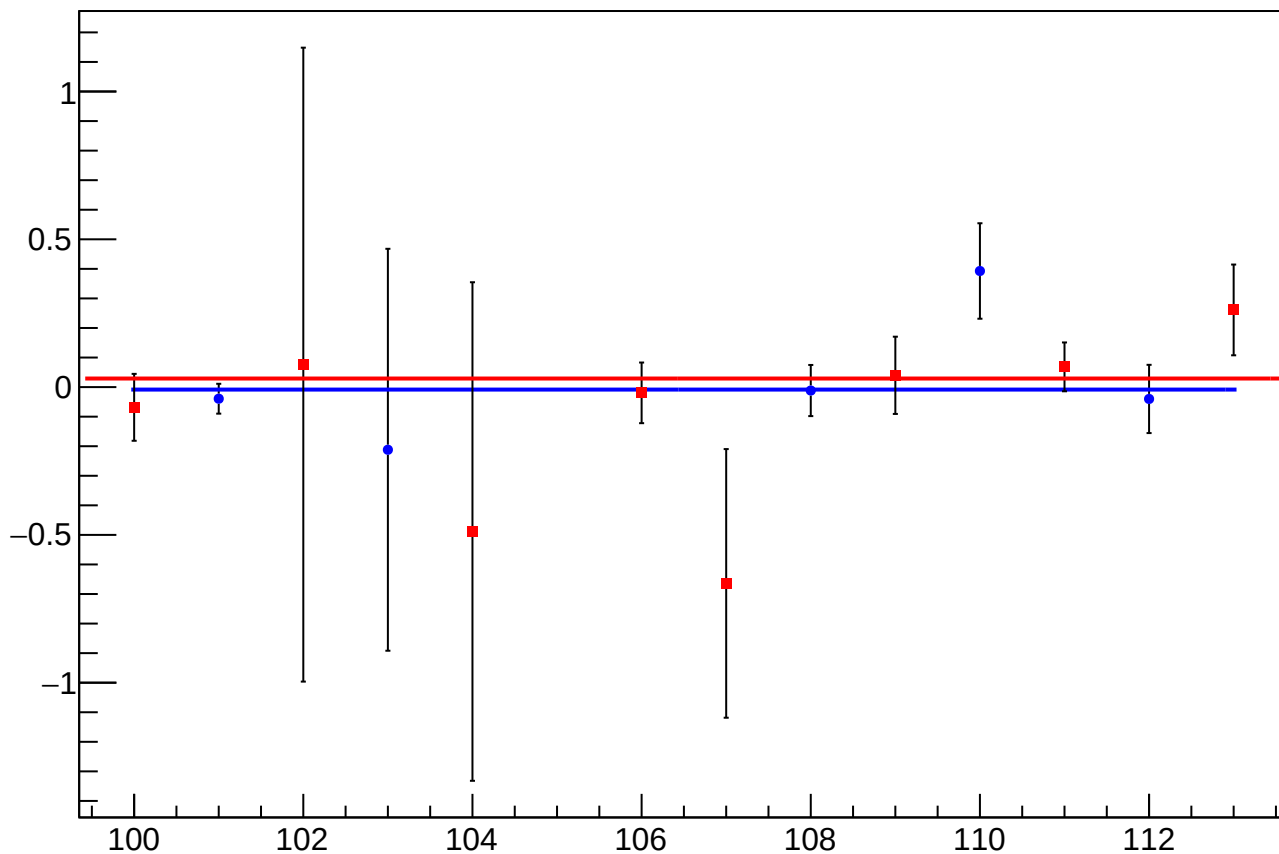
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2273610.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.039  $\chi^2$ /NDF: 6.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.029 $\pm$ 0.048  $\chi^2$ /NDF: 6.2/7

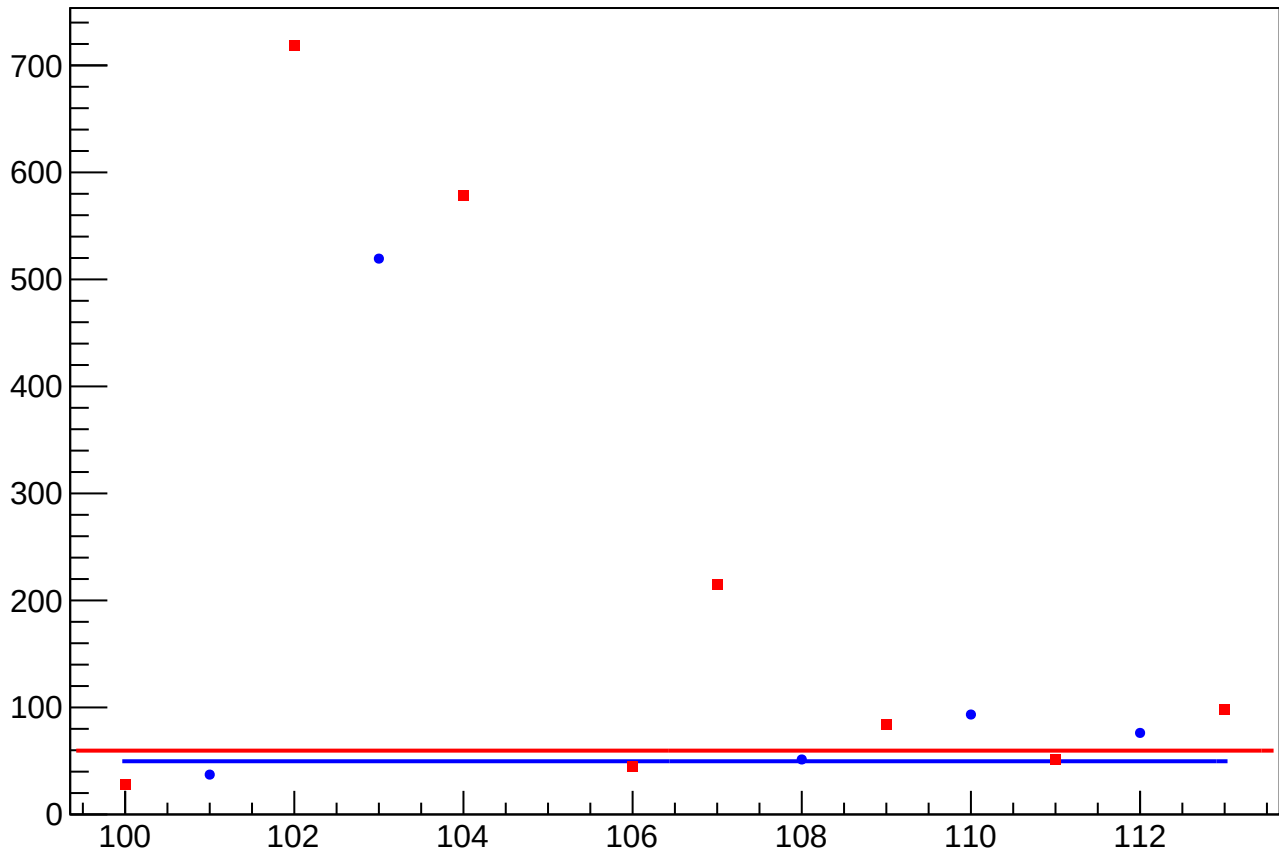
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.007 $\pm$ 0.031  $\chi^2$ /NDF: 13.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 49.723+/-0.028  $\chi^2/\text{NDF}$ : 1329109.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 59.645+/-0.034  $\chi^2/\text{NDF}$ : 2160768.3/7

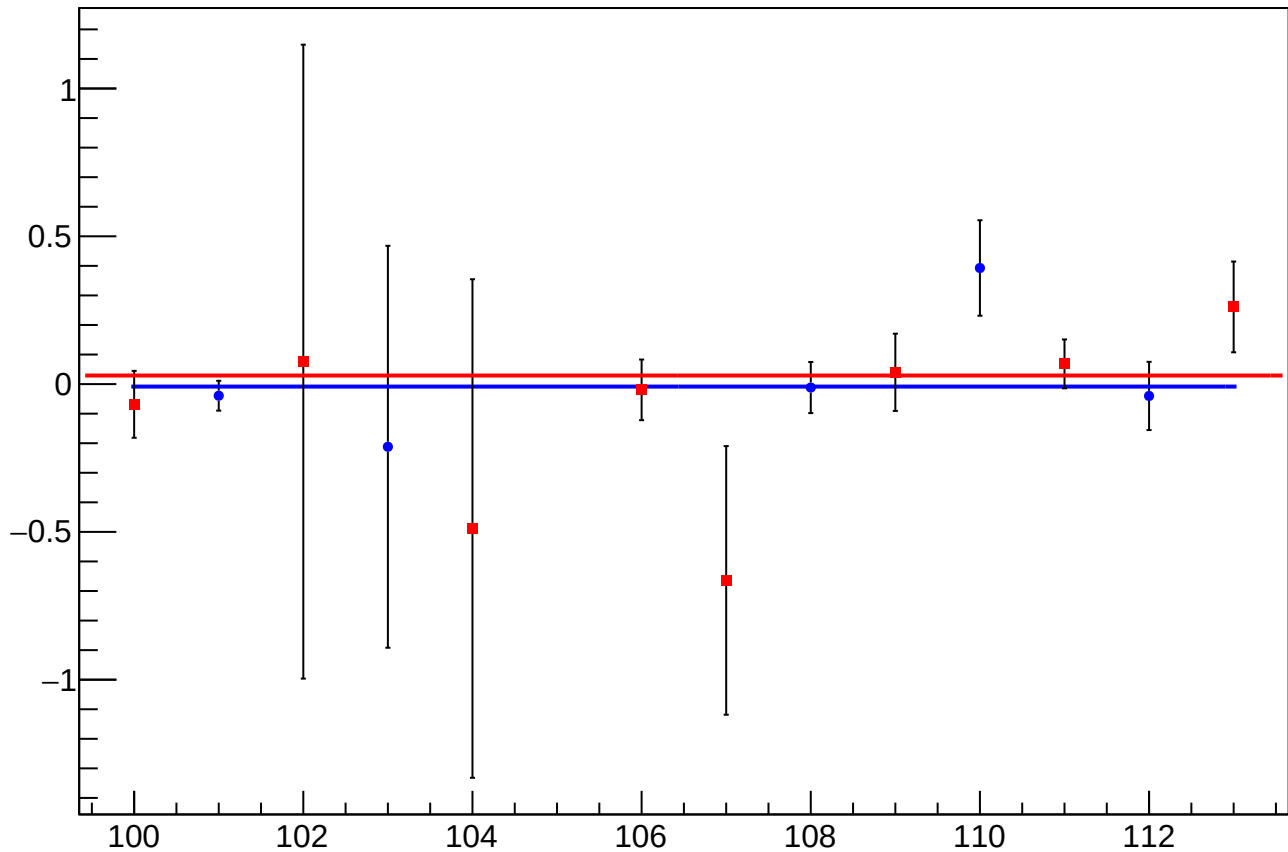
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.693+/-0.022  $\chi^2/\text{NDF}$ : 3540411.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.008+/-0.039  $\chi^2/\text{NDF}$ : 6.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.029+/-0.048  $\chi^2/\text{NDF}$ : 6.2/7

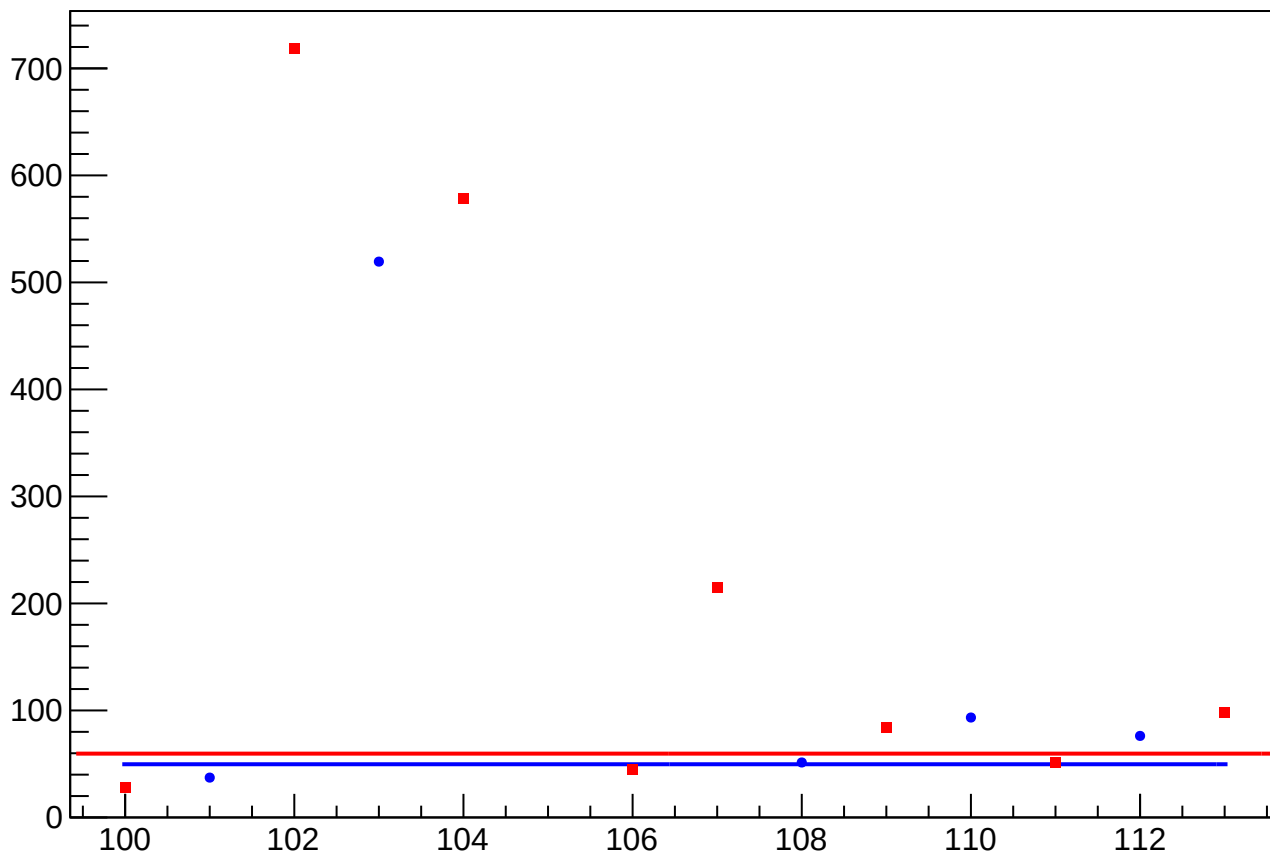
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.031  $\chi^2/\text{NDF}$ : 13.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 49.723+/-0.028  $\chi^2/\text{NDF}$ : 1329109.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 59.645+/-0.034  $\chi^2/\text{NDF}$ : 2160768.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

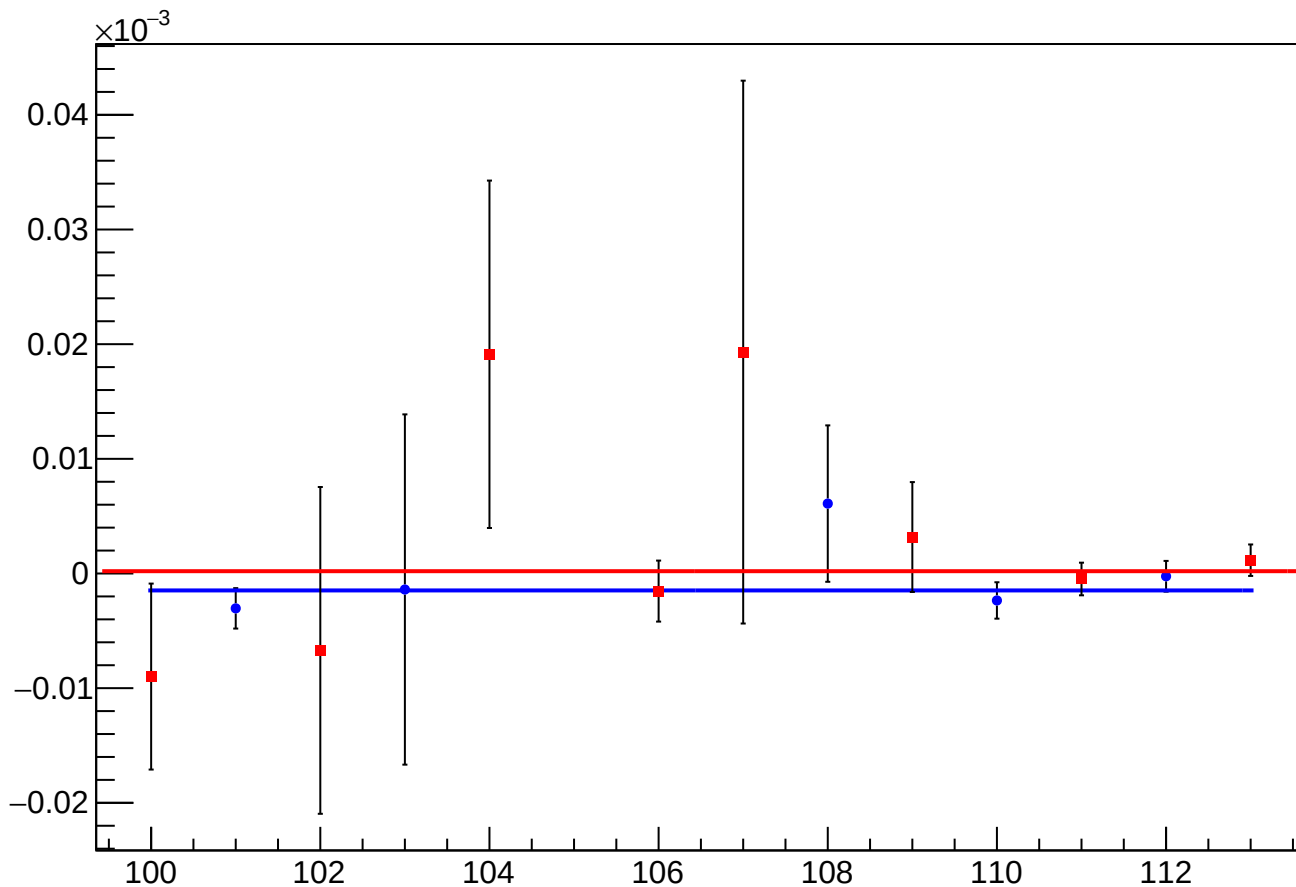
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.693+/-0.022  $\chi^2/\text{NDF}$ : 3540411.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 3.2/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 5.3/7

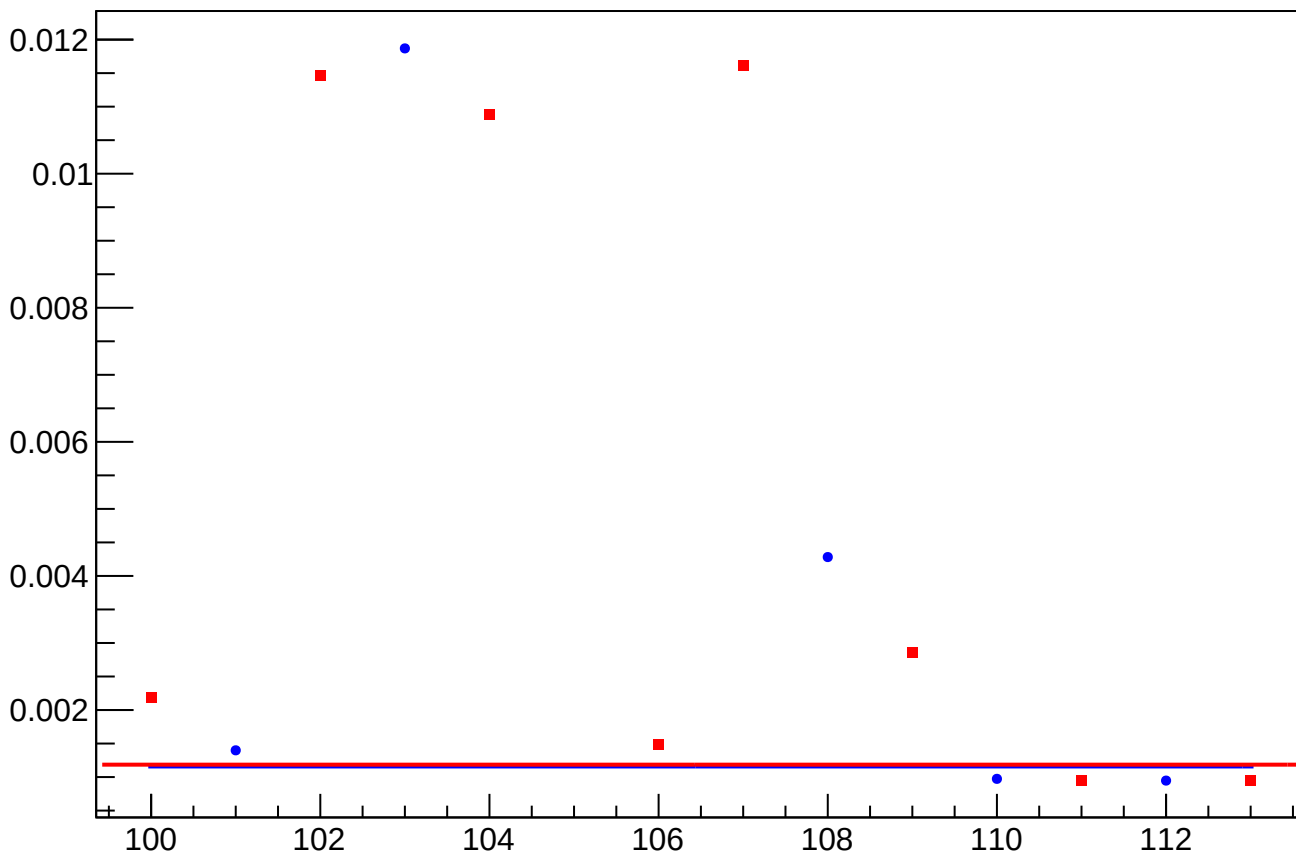
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 10.2/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1516704.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2663885.6/7

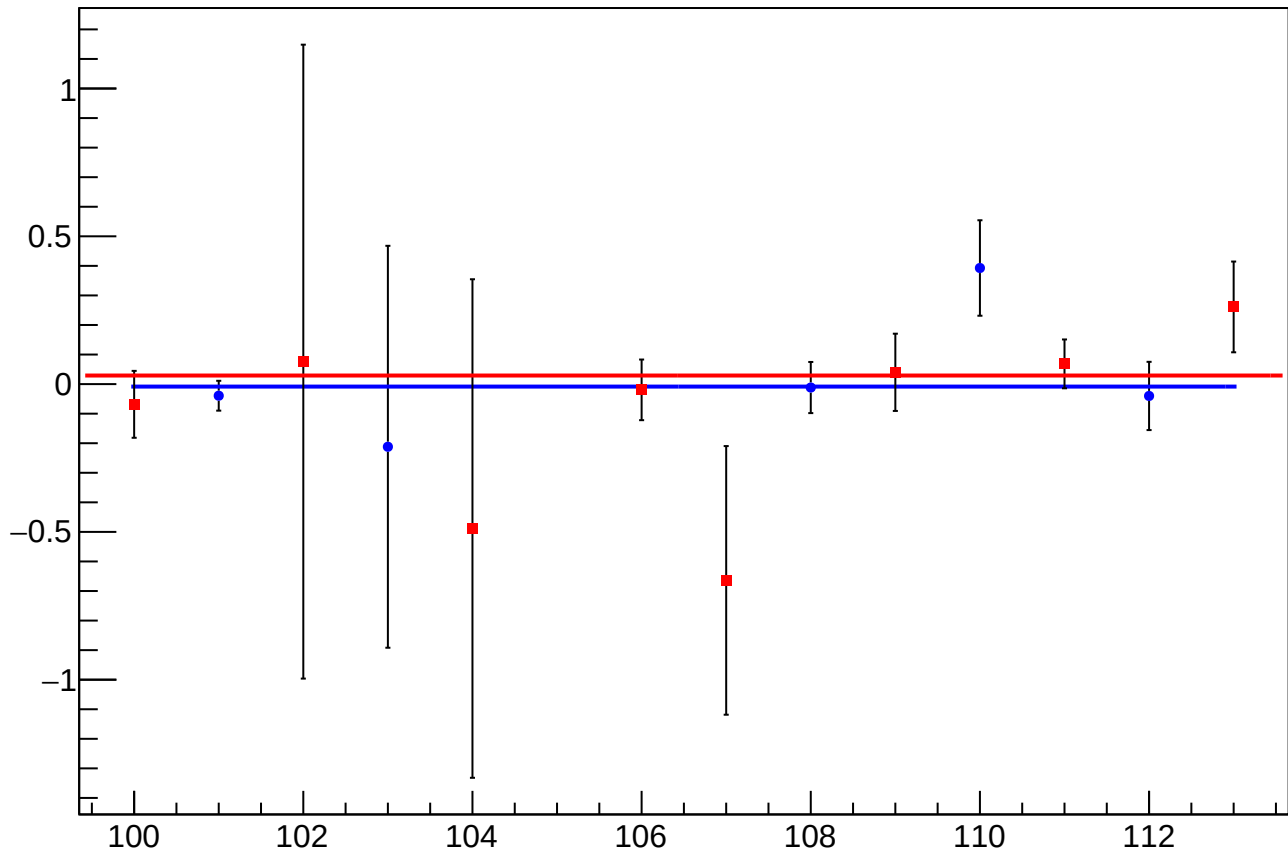
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4181504.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.008+/-0.039  $\chi^2/\text{NDF}$ : 6.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.029+/-0.048  $\chi^2/\text{NDF}$ : 6.2/7

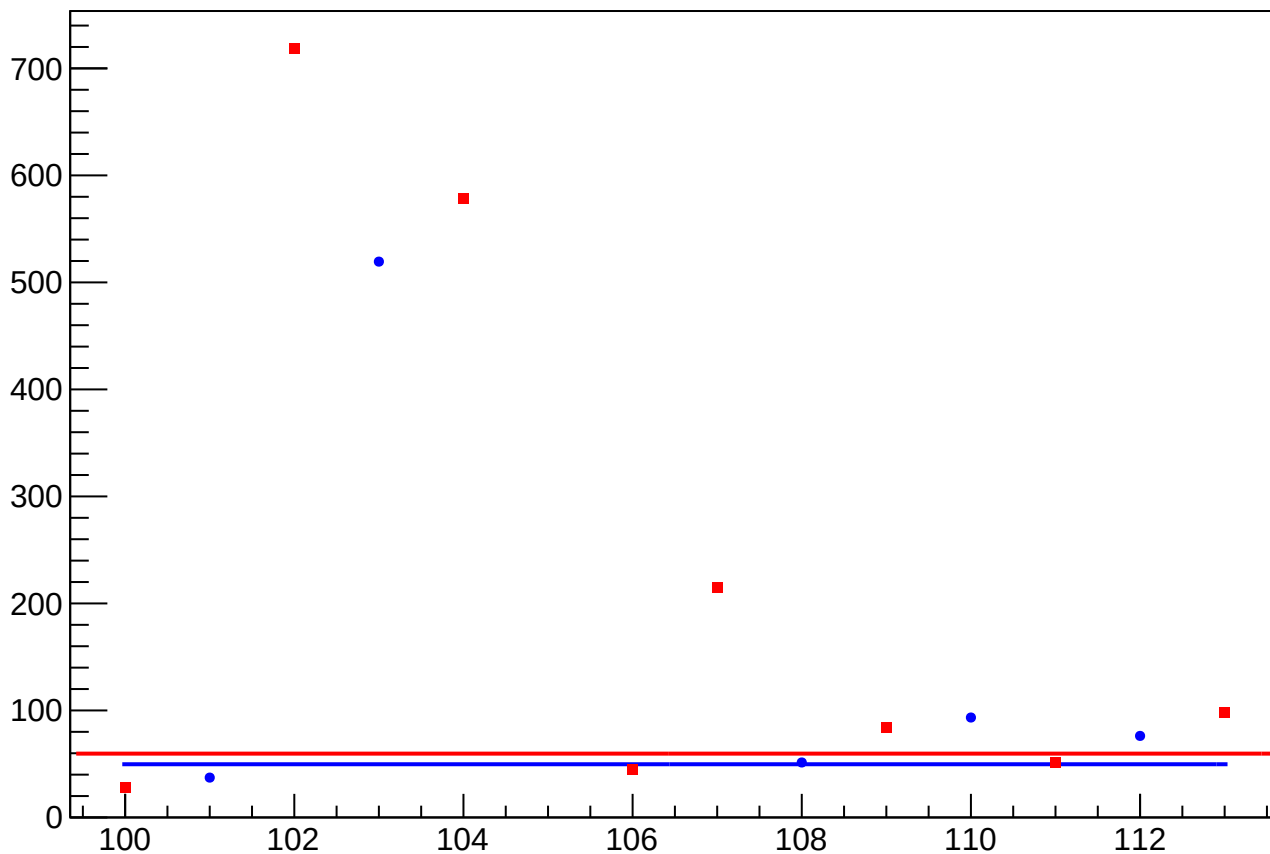
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.031  $\chi^2/\text{NDF}$ : 13.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 49.724 $\pm$ 0.028  $\chi^2$ /NDF: 1329097.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 59.645 $\pm$ 0.034  $\chi^2$ /NDF: 2160764.1/7

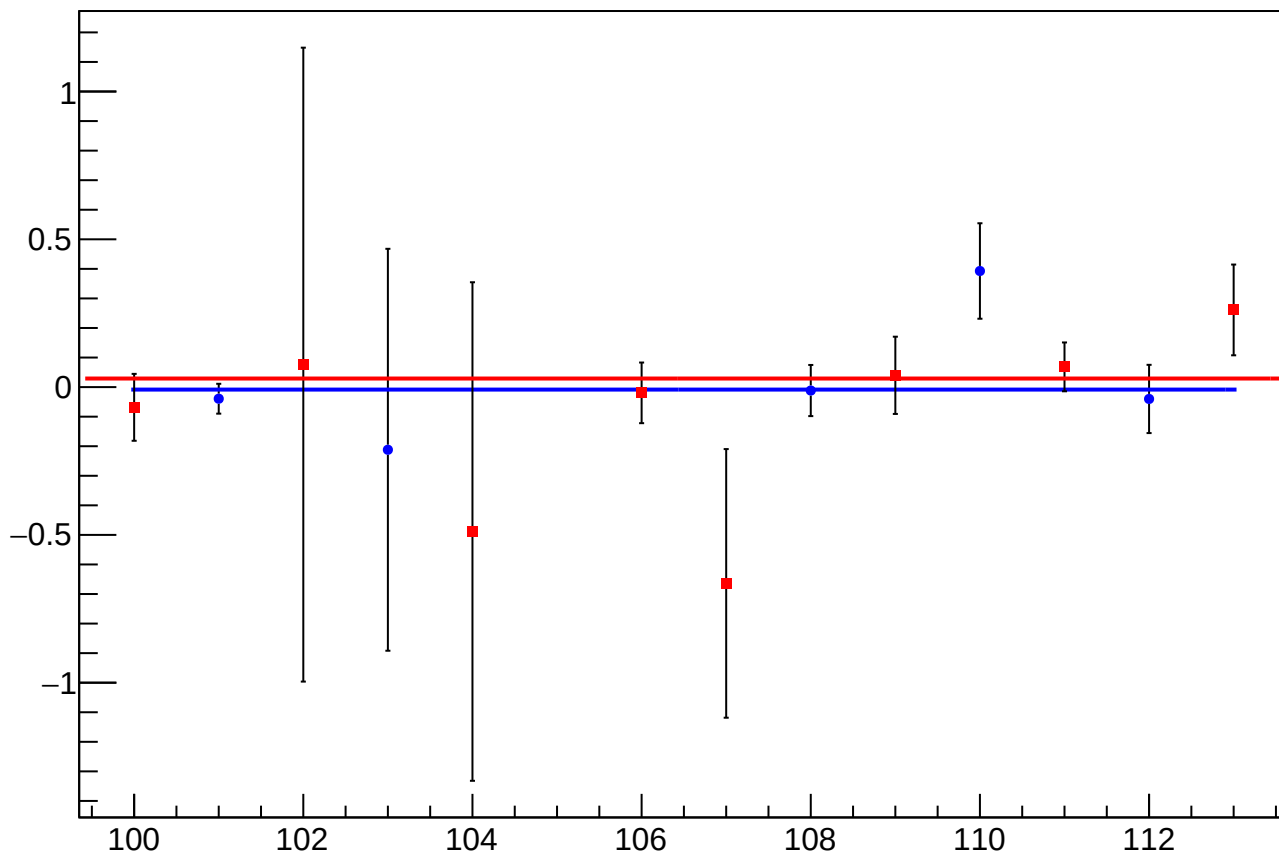
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 53.693 $\pm$ 0.022  $\chi^2$ /NDF: 3540382.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.039  $\chi^2$ /NDF: 6.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.029 $\pm$ 0.048  $\chi^2$ /NDF: 6.2/7

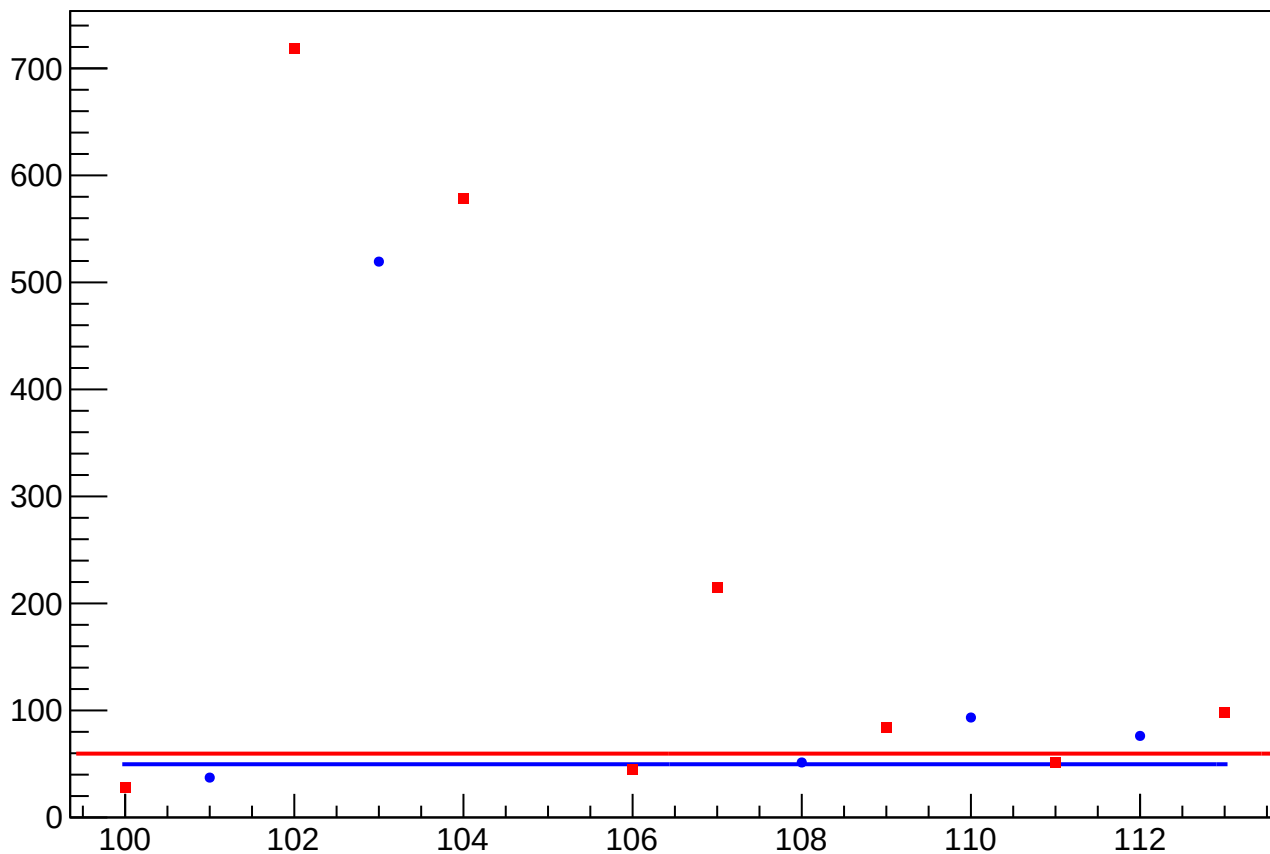
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.007 $\pm$ 0.031  $\chi^2$ /NDF: 13.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 49.724+/-0.028  $\chi^2/\text{NDF}$ : 1329097.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 59.645+/-0.034  $\chi^2/\text{NDF}$ : 2160764.1/7

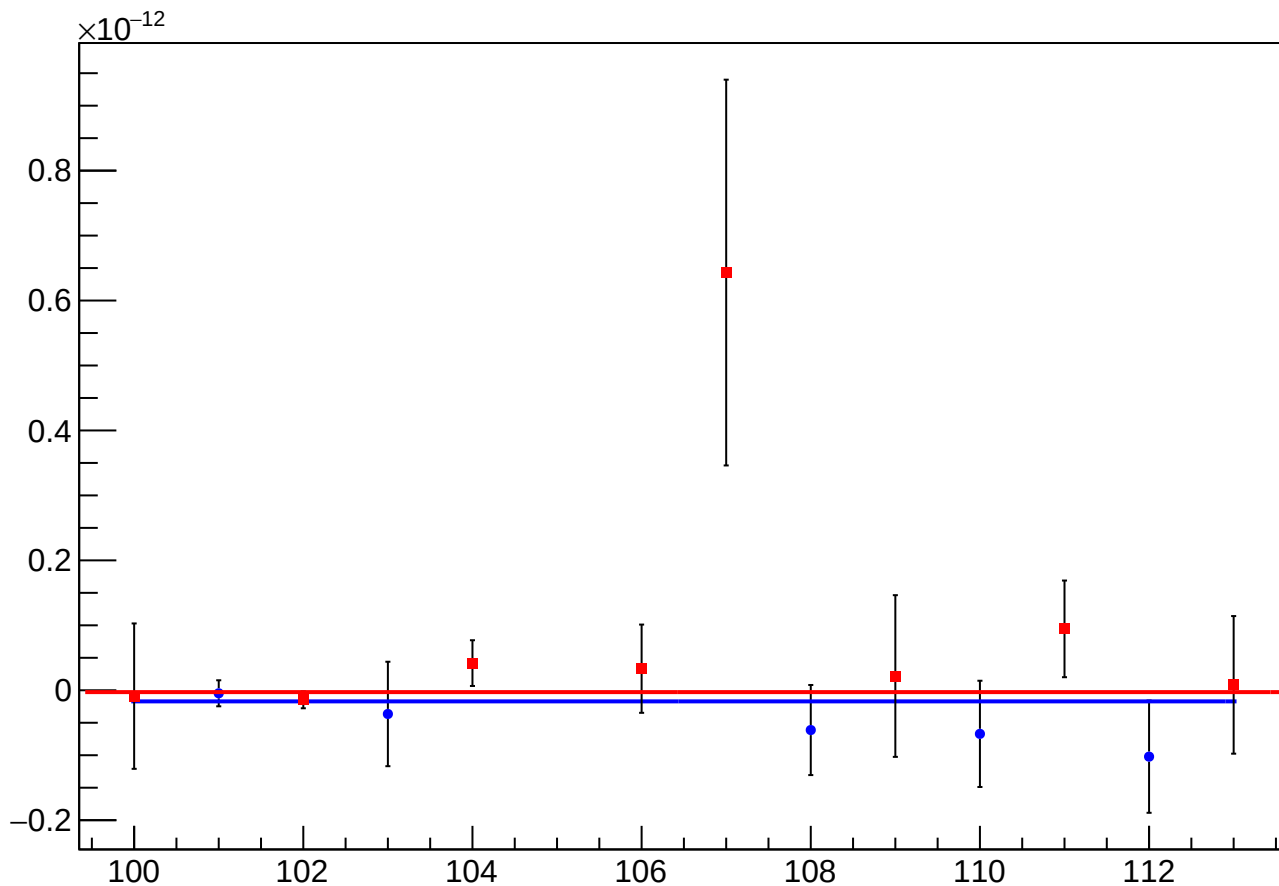
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.693+/-0.022  $\chi^2/\text{NDF}$ : 3540382.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 9.2/7

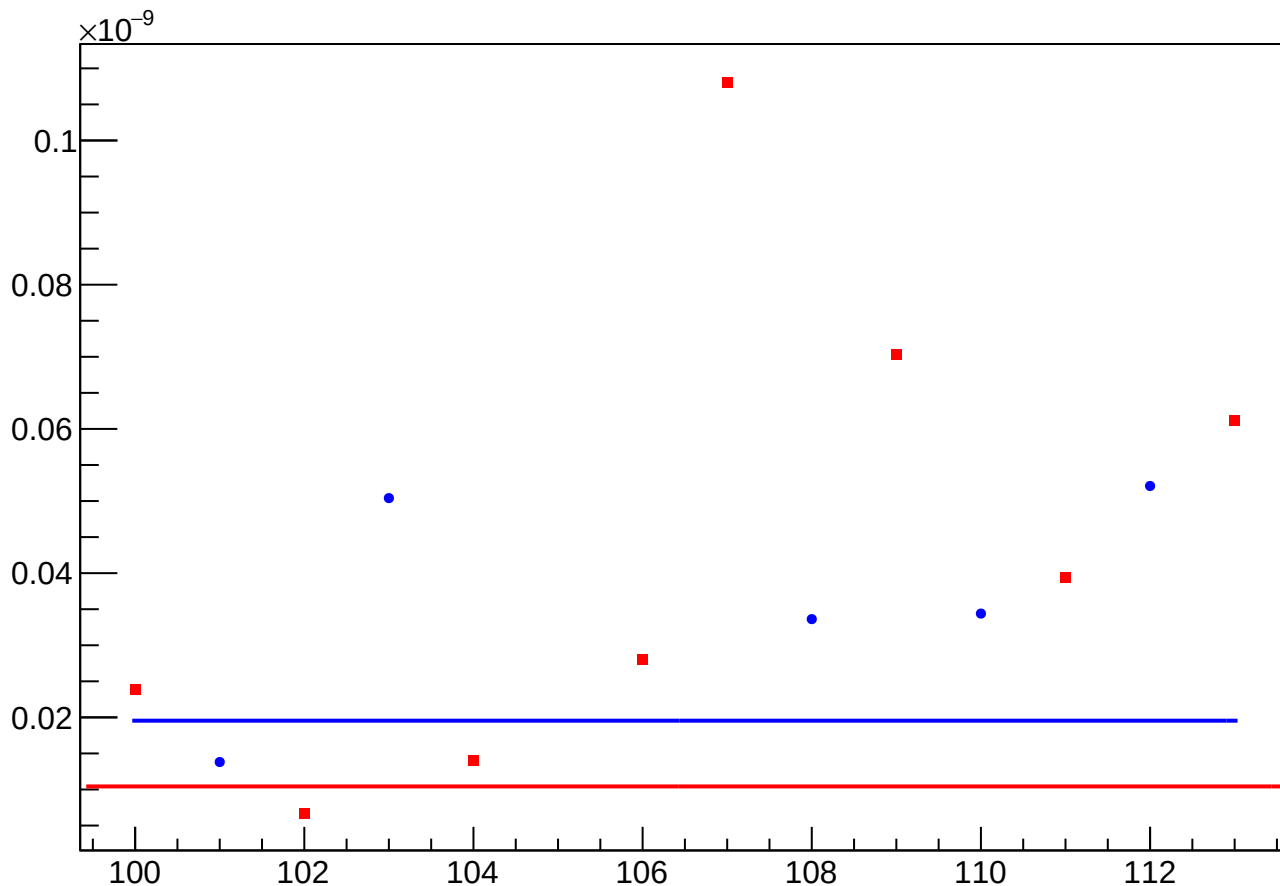
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 11.9/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 890486.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1794672.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

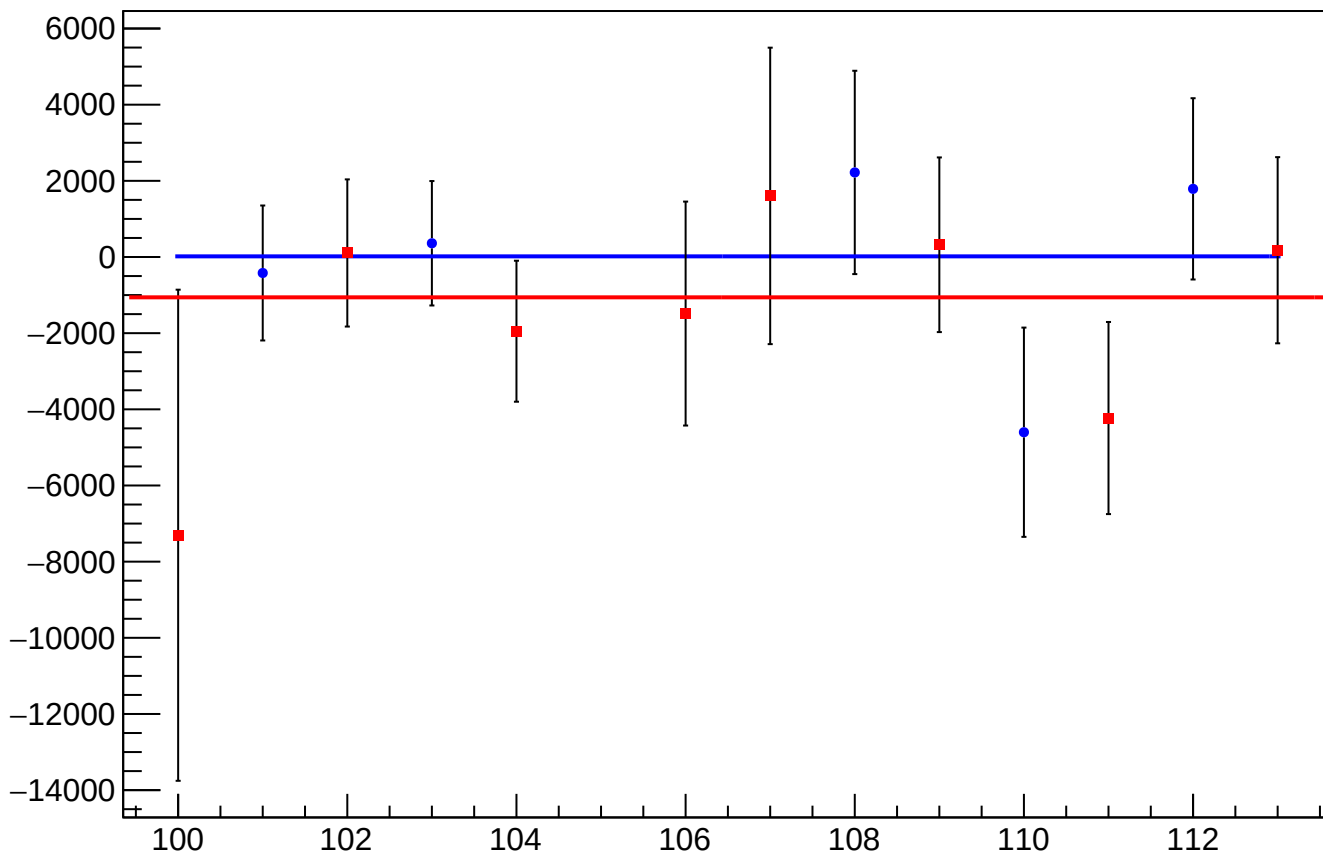
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3051160.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usl\_atl1\_dd\_mean vs Slug



Right In: 17.078+/-935.616  $\chi^2/\text{NDF}$ : 4.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1059.031+/-883.892  $\chi^2/\text{NDF}$ : 4.2/7

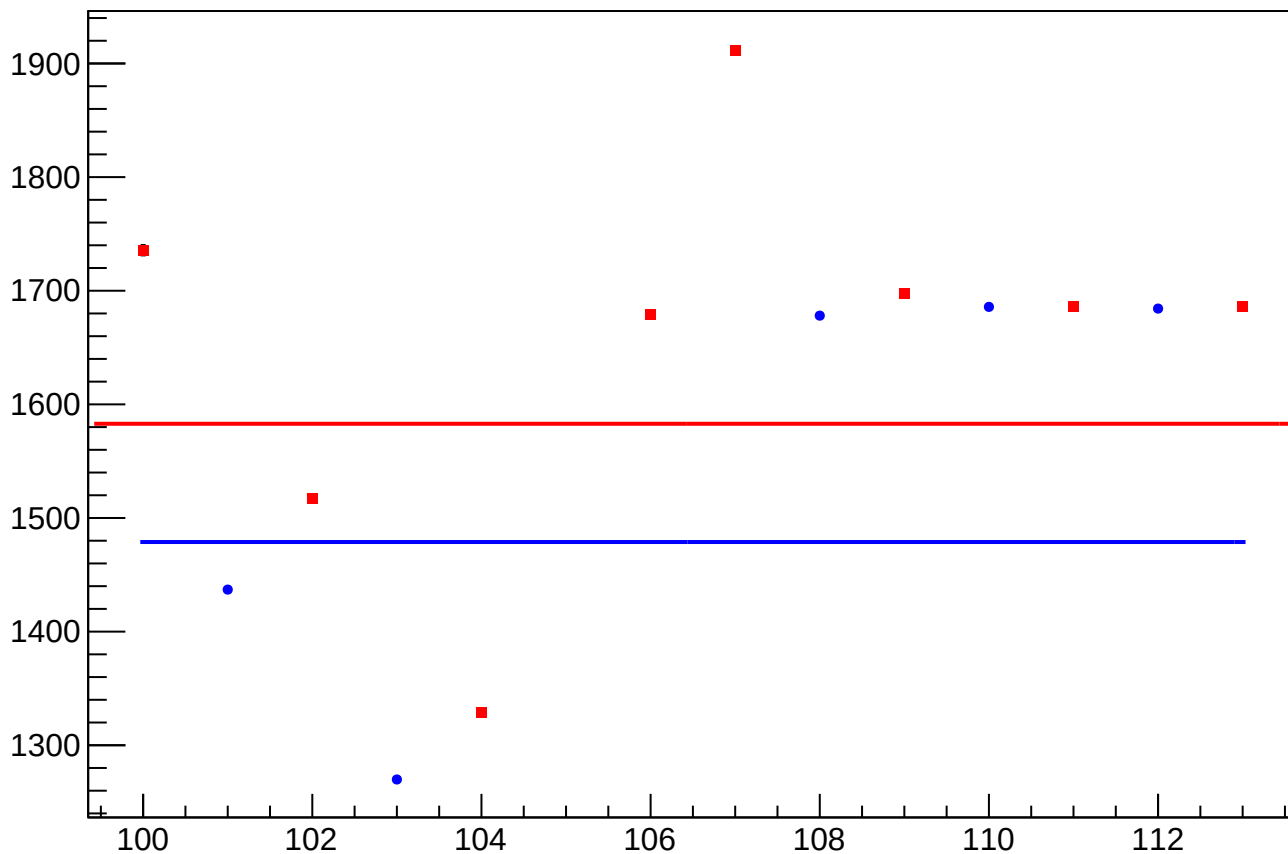
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -551.543+/-642.514  $\chi^2/\text{NDF}$ : 9.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1478.858 $\pm$ 0.662  $\chi^2$ /NDF: 71226.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1582.920 $\pm$ 0.625  $\chi^2$ /NDF: 69513.1/7

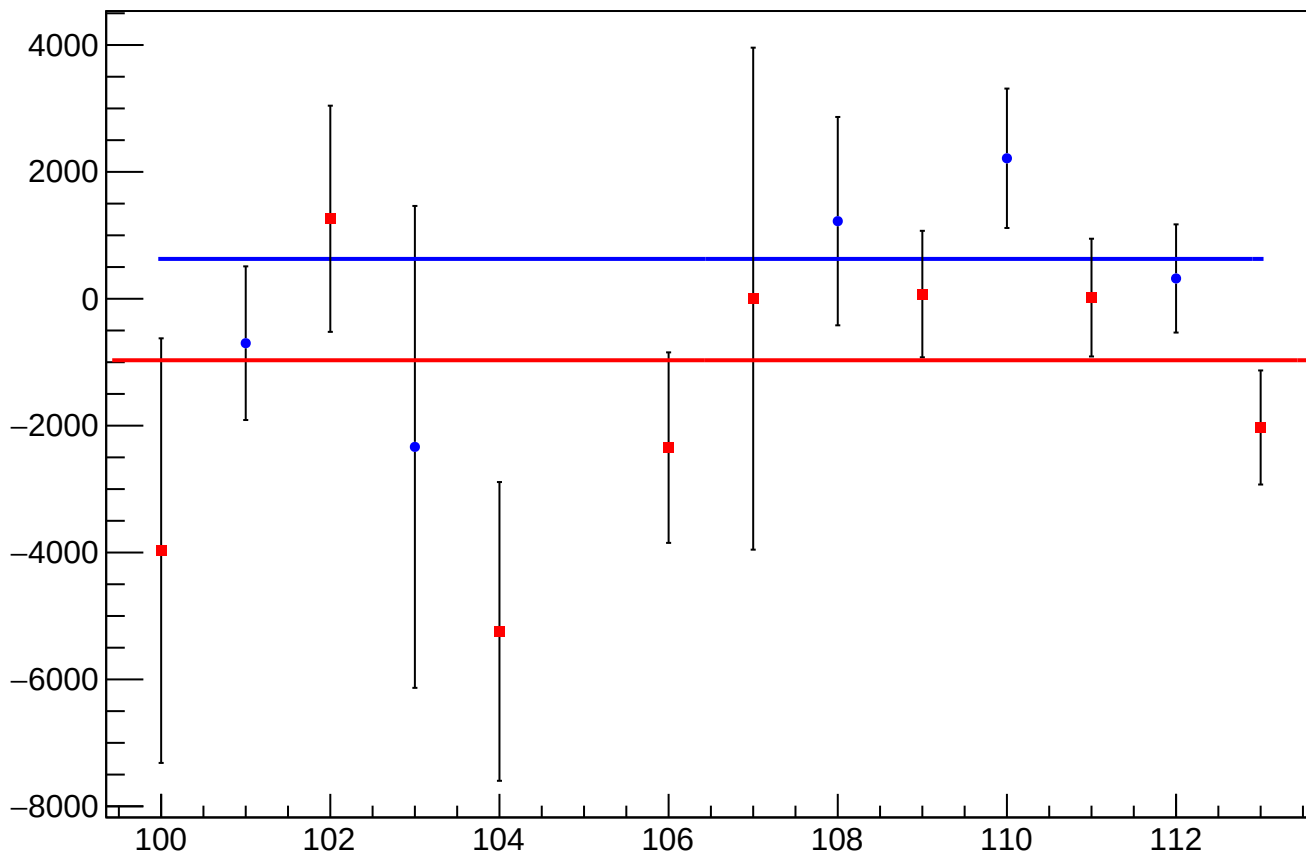
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1533.845 $\pm$ 0.454  $\chi^2$ /NDF: 153813.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_dd\_reg\_correction\_mean vs Slug



Right In: 628.186+/-548.359  $\chi^2/\text{NDF}$ : 4.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -969.170+/-471.597  $\chi^2/\text{NDF}$ : 10.2/7

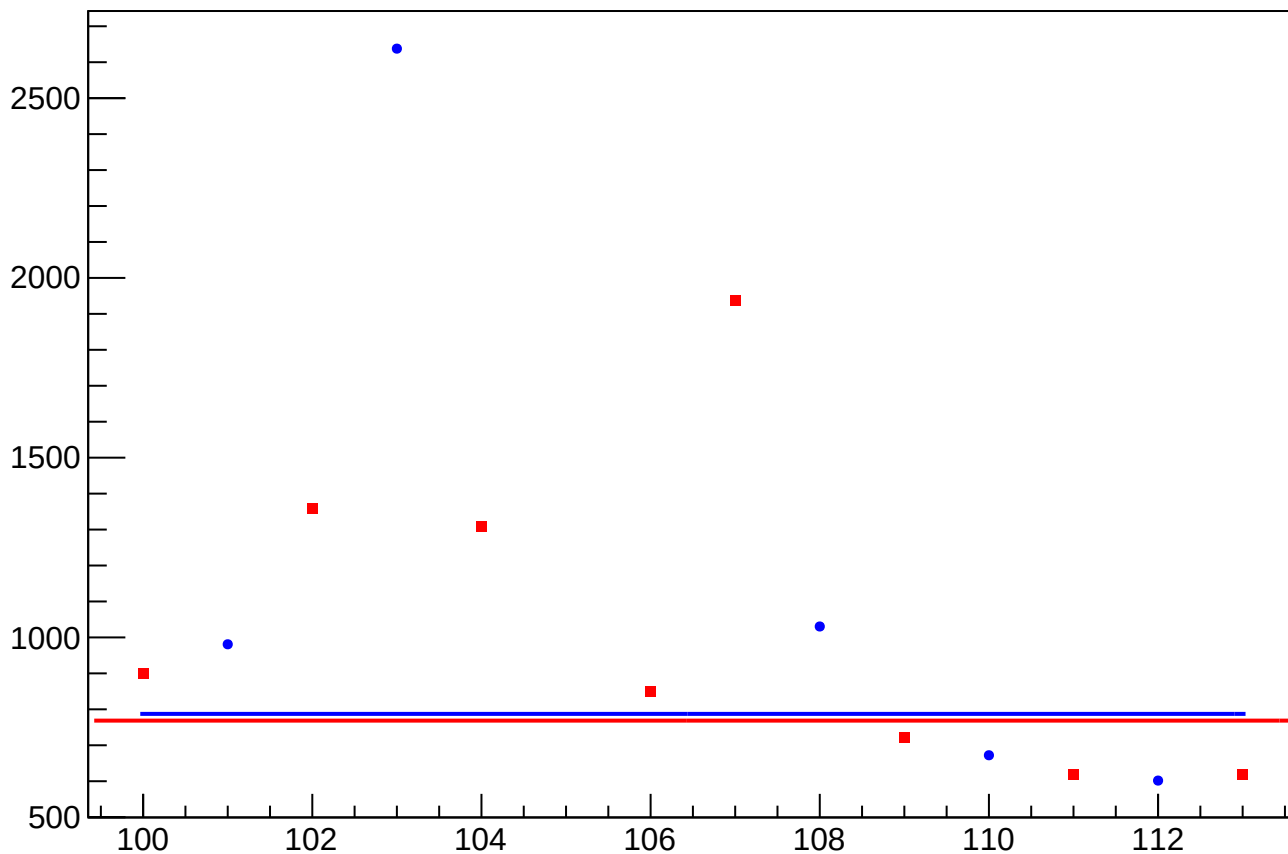
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -290.033+/-357.555  $\chi^2/\text{NDF}$ : 19.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_reg\_correction\_rms vs Slug



Right In: 787.319+/-0.388  $\chi^2/\text{NDF}$ : 686299.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 768.590+/-0.333  $\chi^2/\text{NDF}$ : 620311.4/7

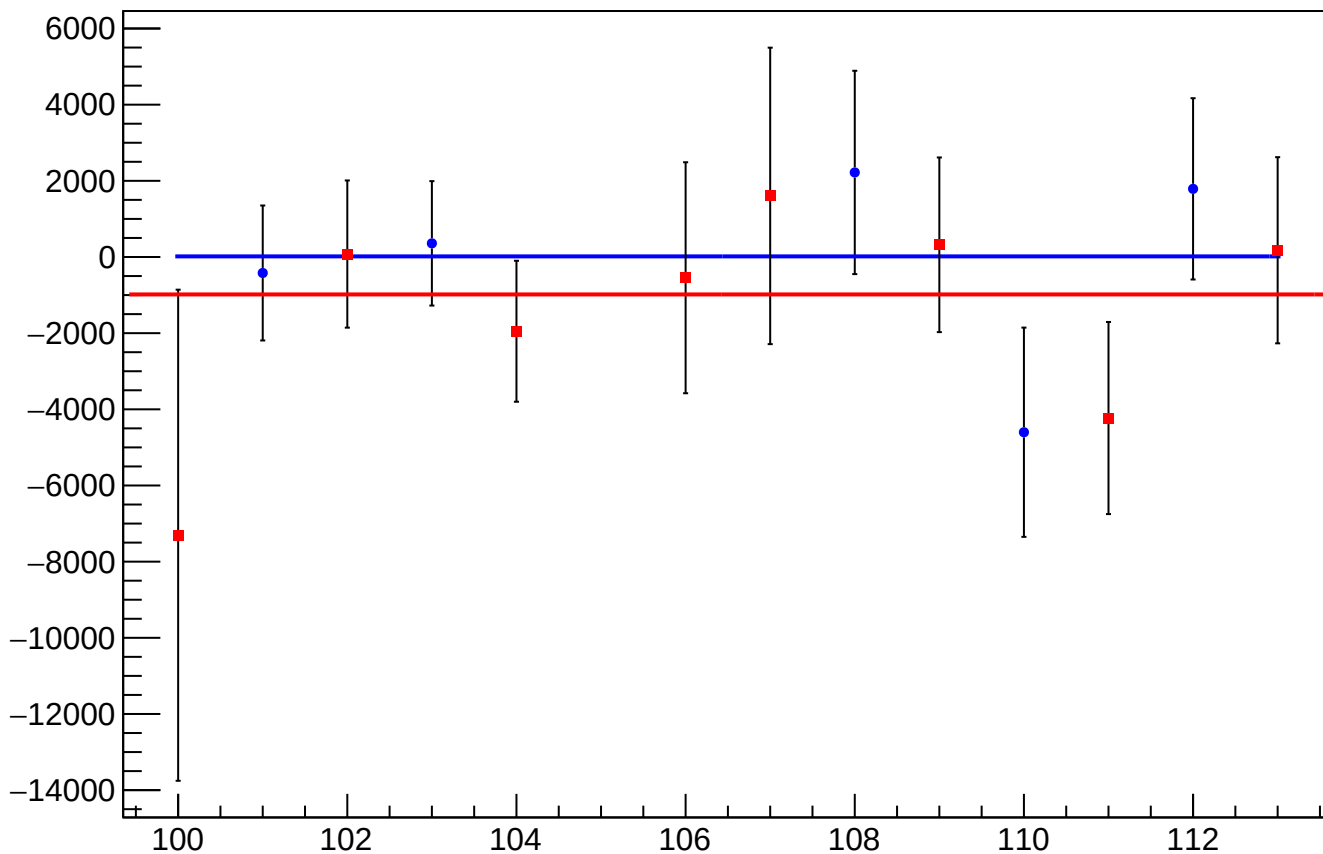
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 776.553+/-0.253  $\chi^2/\text{NDF}$ : 1307951.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usl\_atl1\_dd\_mean vs Slug



Right In: 16.182 $\pm$ 935.616  $\chi^2$ /NDF: 4.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -982.944 $\pm$ 886.319  $\chi^2$ /NDF: 4.2/7

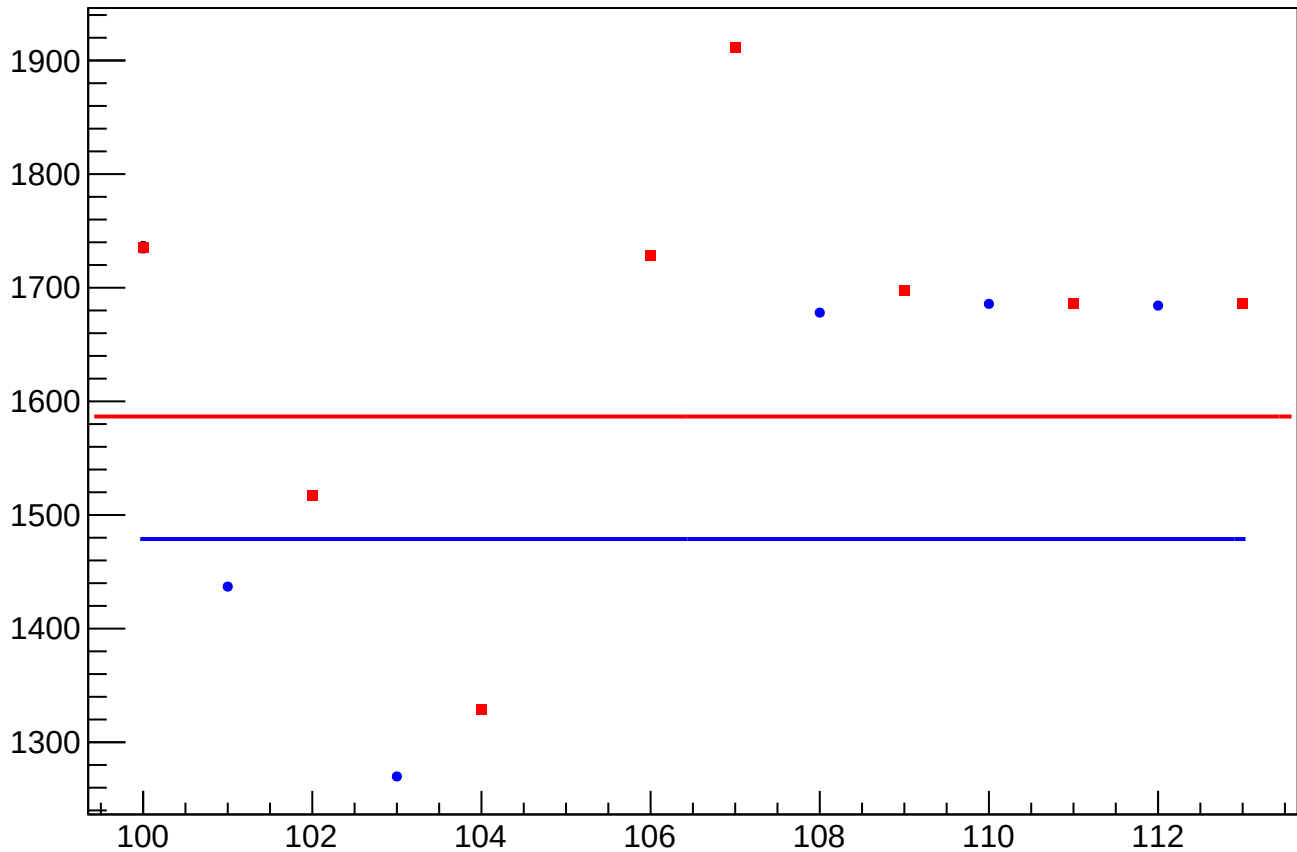
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -510.395 $\pm$ 643.444  $\chi^2$ /NDF: 9.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1478.858 $\pm$ 0.662  $\chi^2$ /NDF: 71226.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1586.687 $\pm$ 0.627  $\chi^2$ /NDF: 71952.3/7

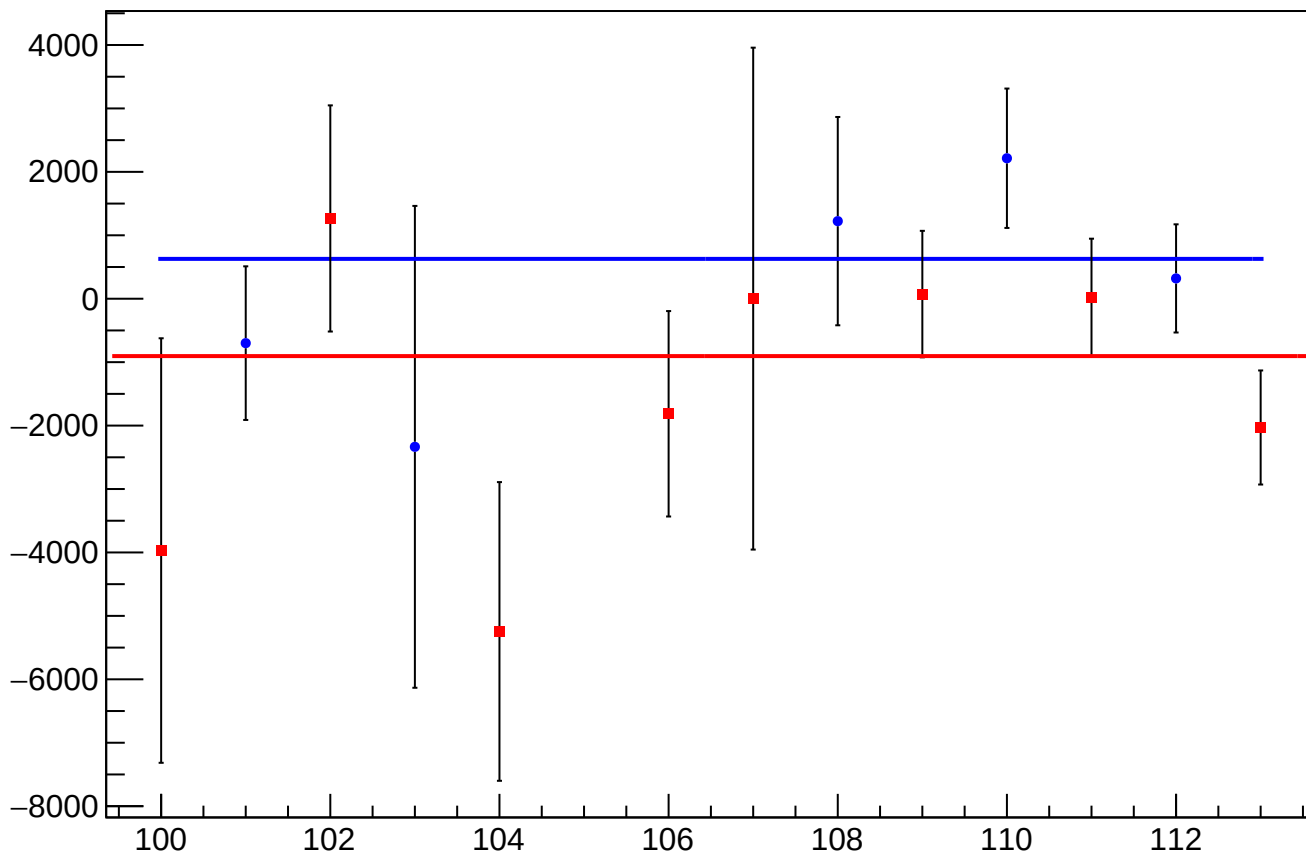
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1535.688 $\pm$ 0.455  $\chi^2$ /NDF: 157179.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_dd\_cor\_correction\_mean vs Slug



Right In: 628.175+/-548.351  $\chi^2/\text{NDF}$ : 4.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -904.402+/-474.902  $\chi^2/\text{NDF}$ : 9.6/7

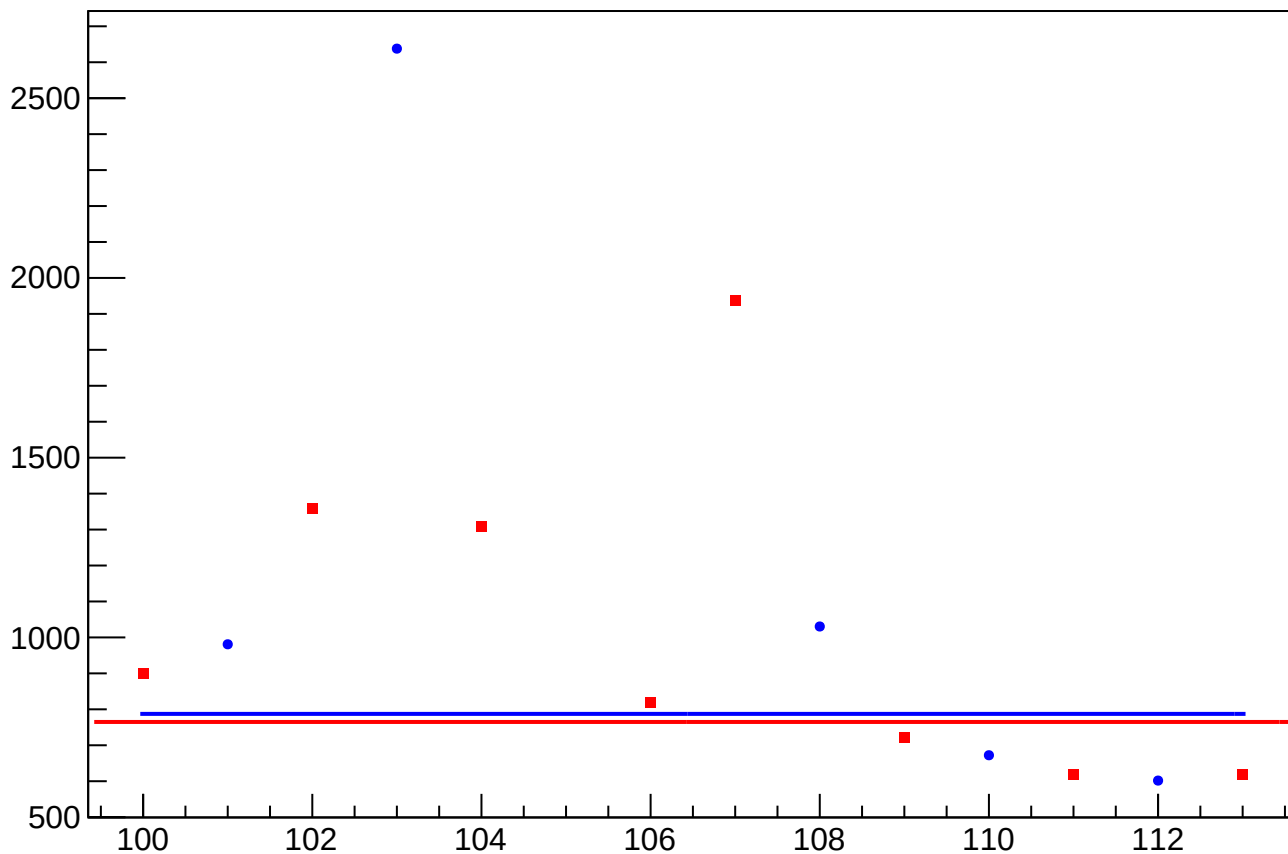
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -247.559+/-358.987  $\chi^2/\text{NDF}$ : 18.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_cor\_correction\_rms vs Slug



Right In: 787.303+/-0.388  $\chi^2/\text{NDF}$ : 686313.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 764.843+/-0.336  $\chi^2/\text{NDF}$ : 616474.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

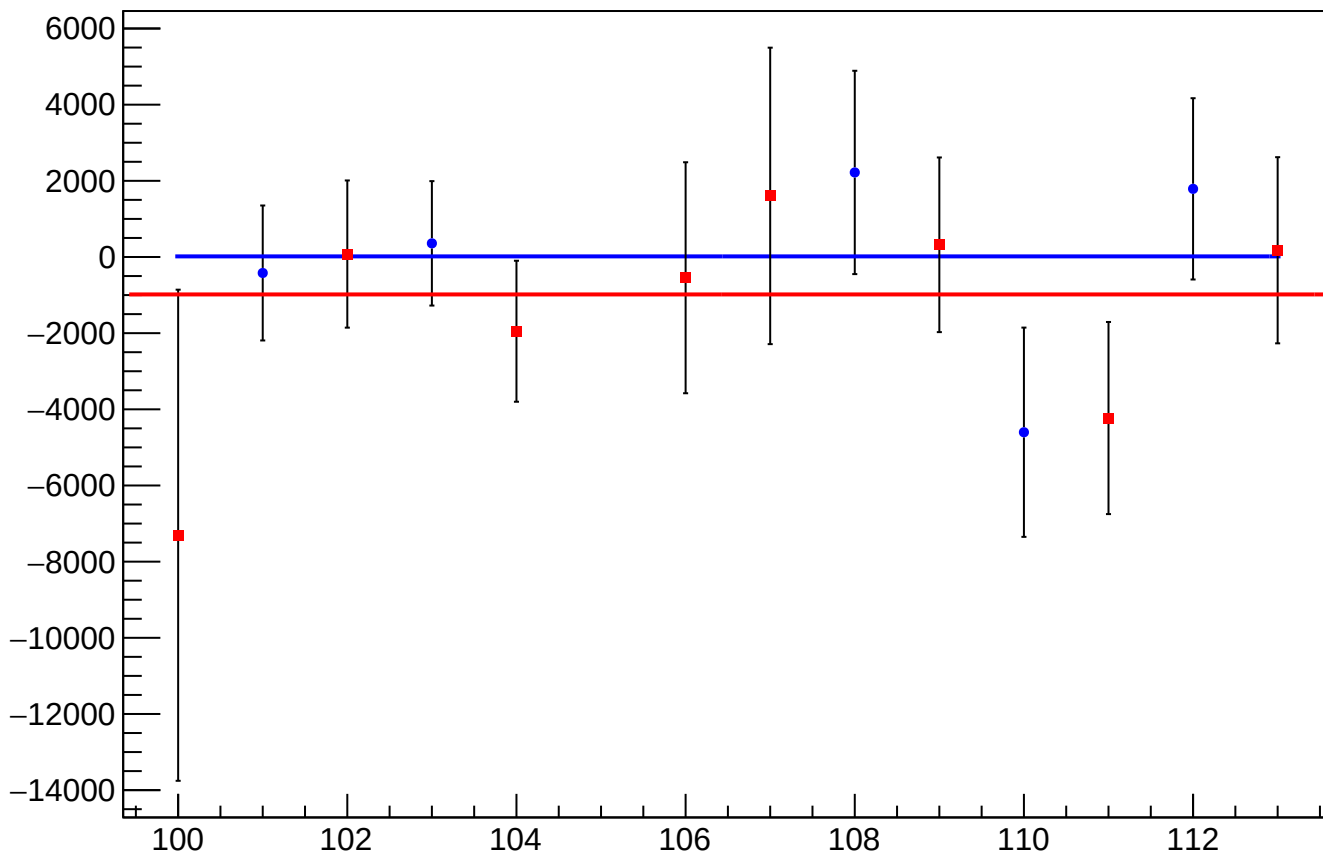
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 774.469+/-0.254  $\chi^2/\text{NDF}$ : 1304704.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_usl\_atl1\_dd\_mean vs Slug



Right In: 16.182+/-935.616  $\chi^2$ /NDF: 4.2/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -982.944+/-886.319  $\chi^2$ /NDF: 4.2/7

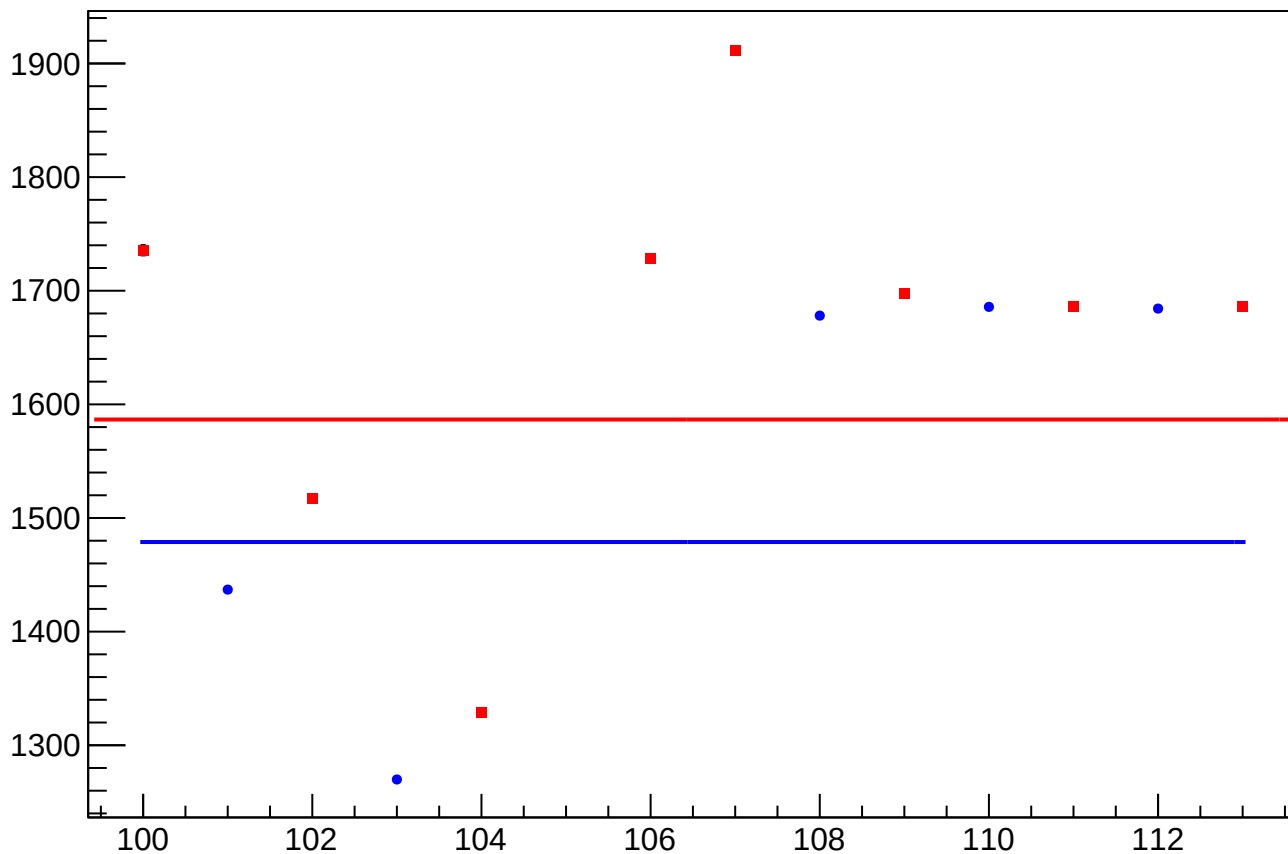
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -510.395+/-643.444  $\chi^2$ /NDF: 9.0/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1478.858 $\pm$ 0.662  $\chi^2$ /NDF: 71226.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1586.687 $\pm$ 0.627  $\chi^2$ /NDF: 71952.3/7

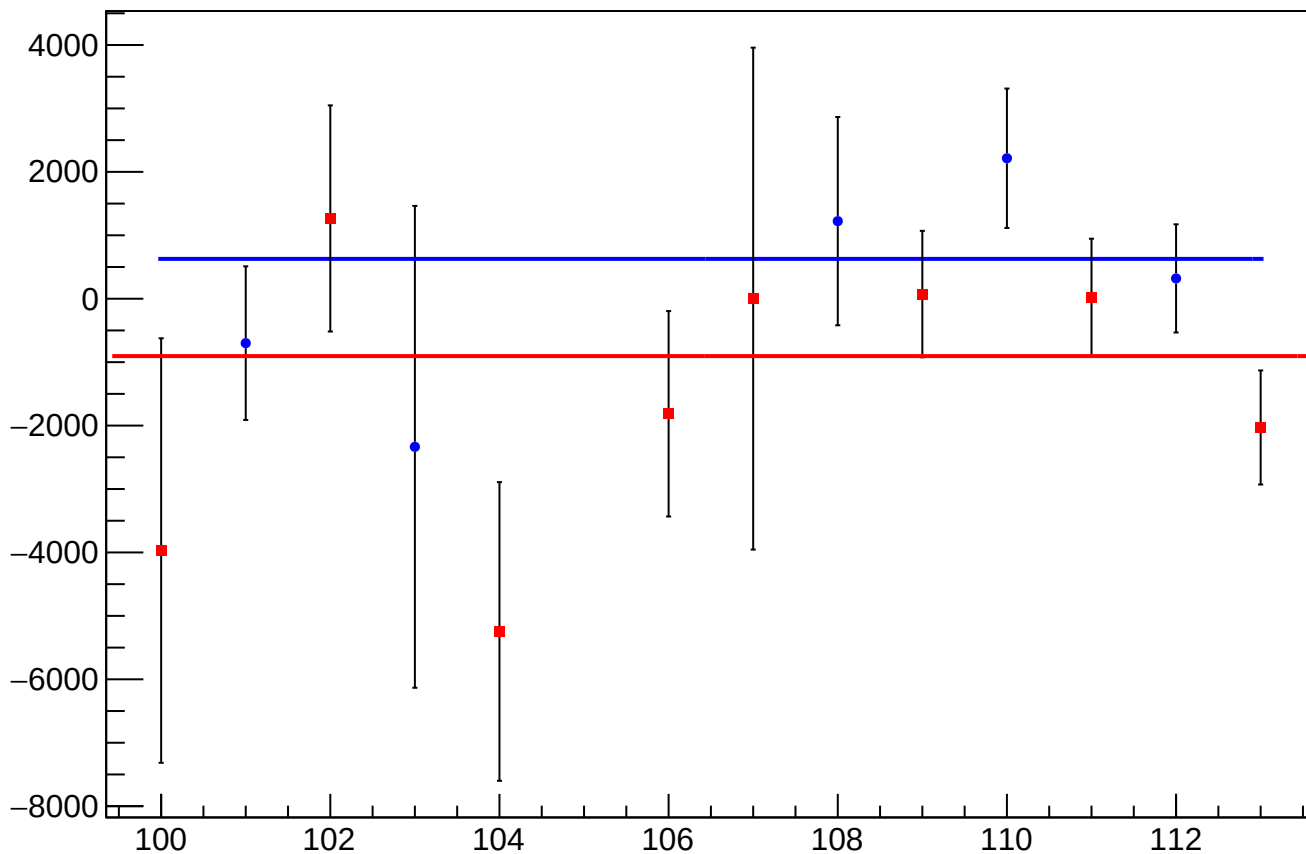
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1535.688 $\pm$ 0.455  $\chi^2$ /NDF: 157179.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 628.175+/-548.351  $\chi^2/\text{NDF}$ : 4.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -904.402+/-474.902  $\chi^2/\text{NDF}$ : 9.6/7

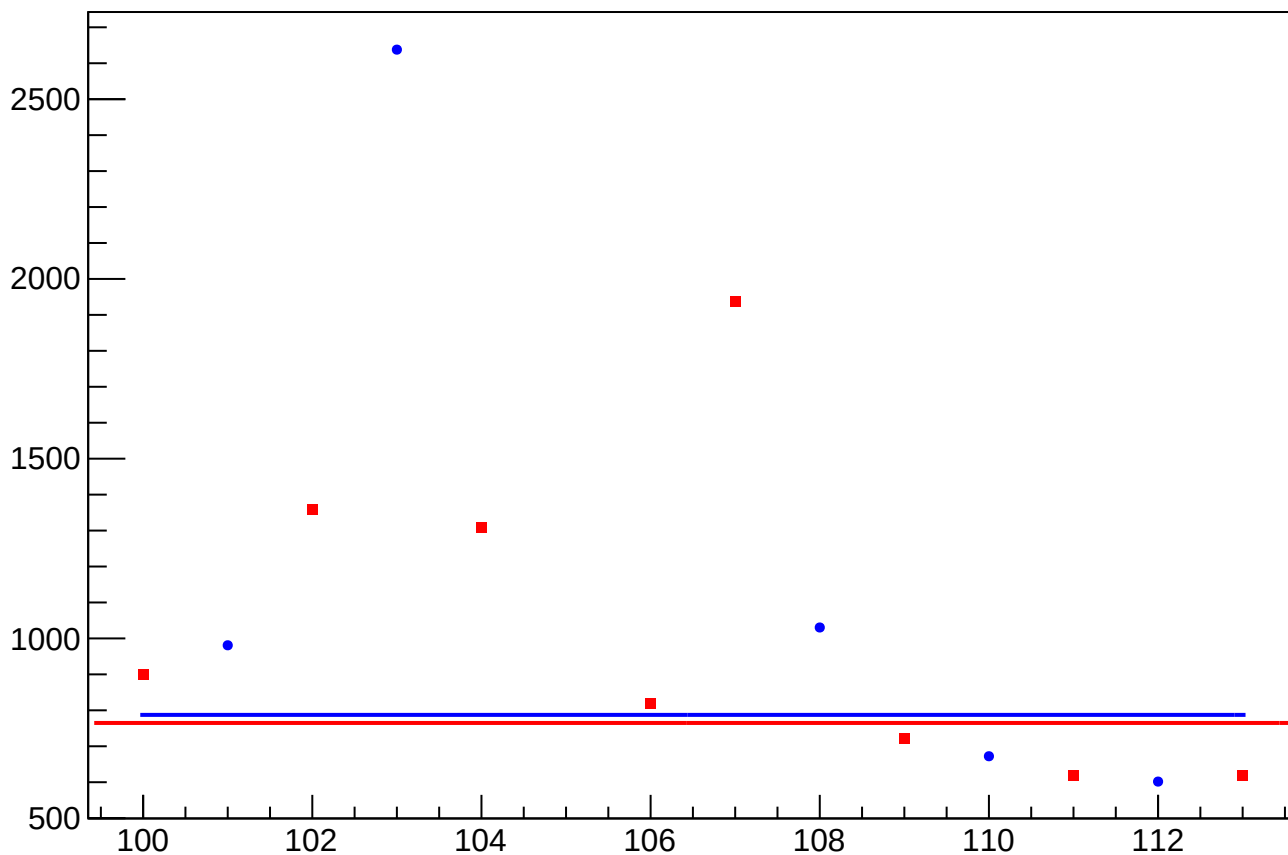
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -247.559+/-358.987  $\chi^2/\text{NDF}$ : 18.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 787.303+/-0.388  $\chi^2/\text{NDF}$ : 686313.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 764.843+/-0.336  $\chi^2/\text{NDF}$ : 616474.3/7

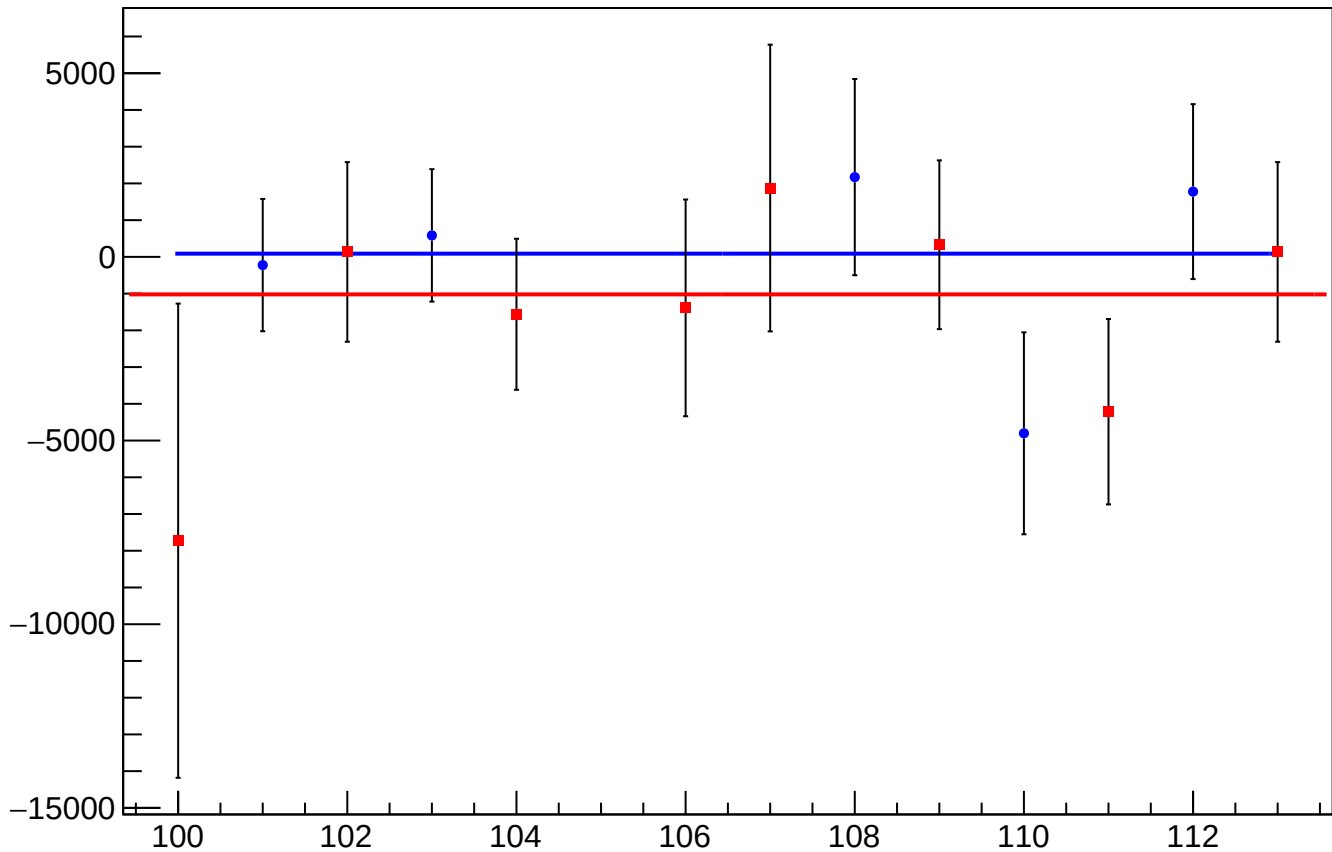
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 774.469+/-0.254  $\chi^2/\text{NDF}$ : 1304704.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_usl\_atl1\_dd\_mean vs Slug



Right In: 87.833+/-969.047  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1021.112+/-944.110  $\chi^2/\text{NDF}$ : 4.1/7

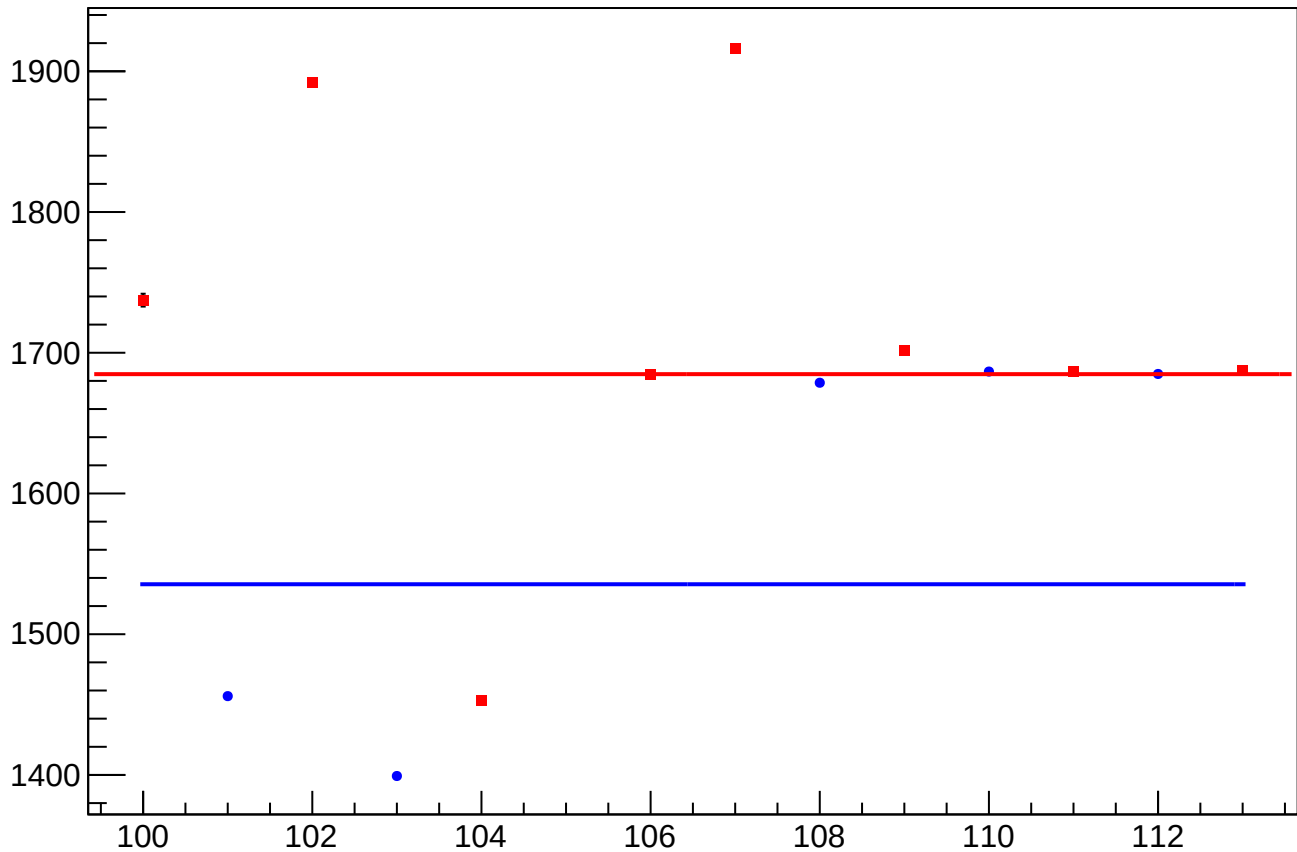
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -481.092+/-676.231  $\chi^2/\text{NDF}$ : 9.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1535.506 $\pm$ 0.685  $\chi^2$ /NDF: 34992.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1684.797 $\pm$ 0.668  $\chi^2$ /NDF: 47064.4/7

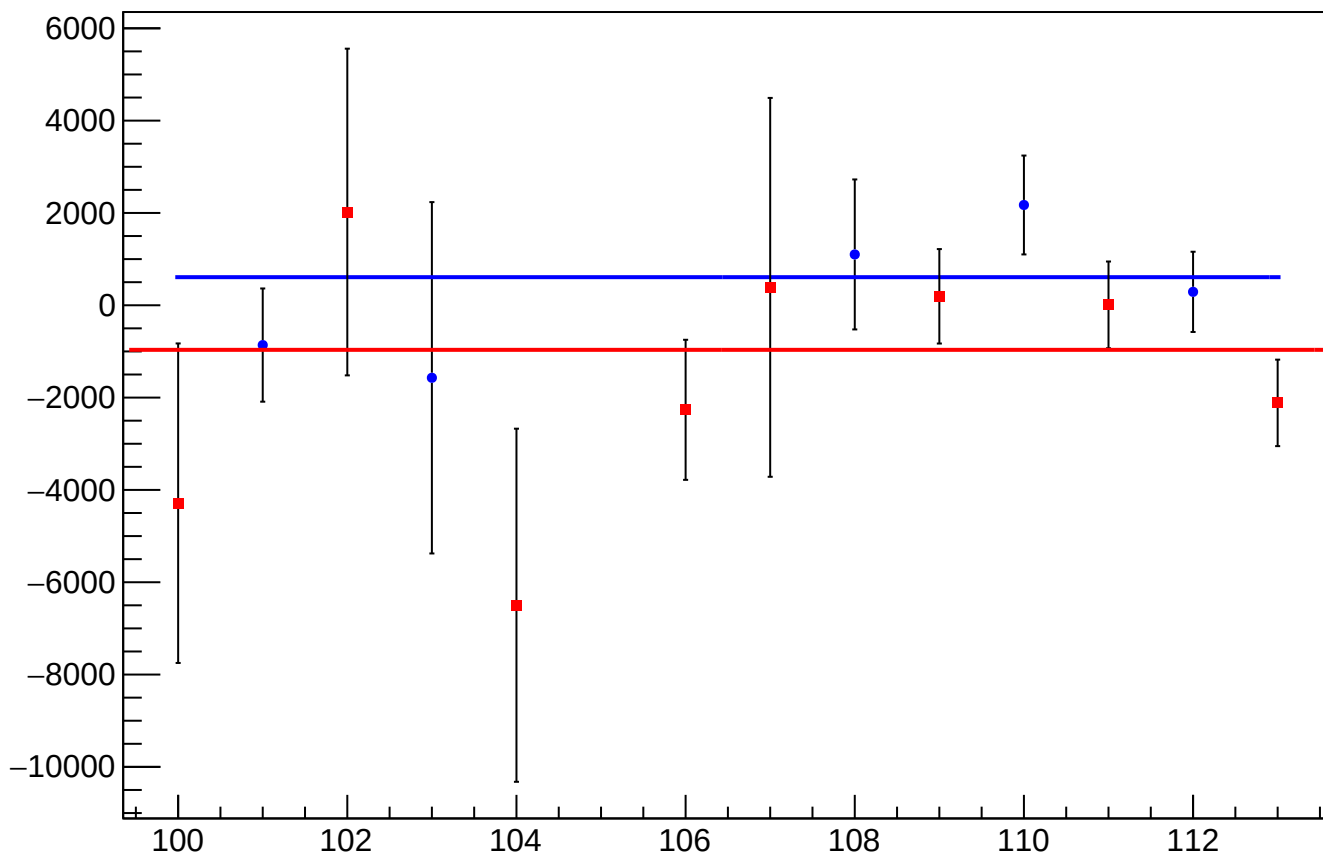
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1612.097 $\pm$ 0.478  $\chi^2$ /NDF: 106410.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_dd\_dit\_correction\_mean vs Slug



Right In: 608.771 $\pm$ 549.756  $\chi^2$ /NDF: 4.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -965.521 $\pm$ 502.975  $\chi^2$ /NDF: 8.4/7

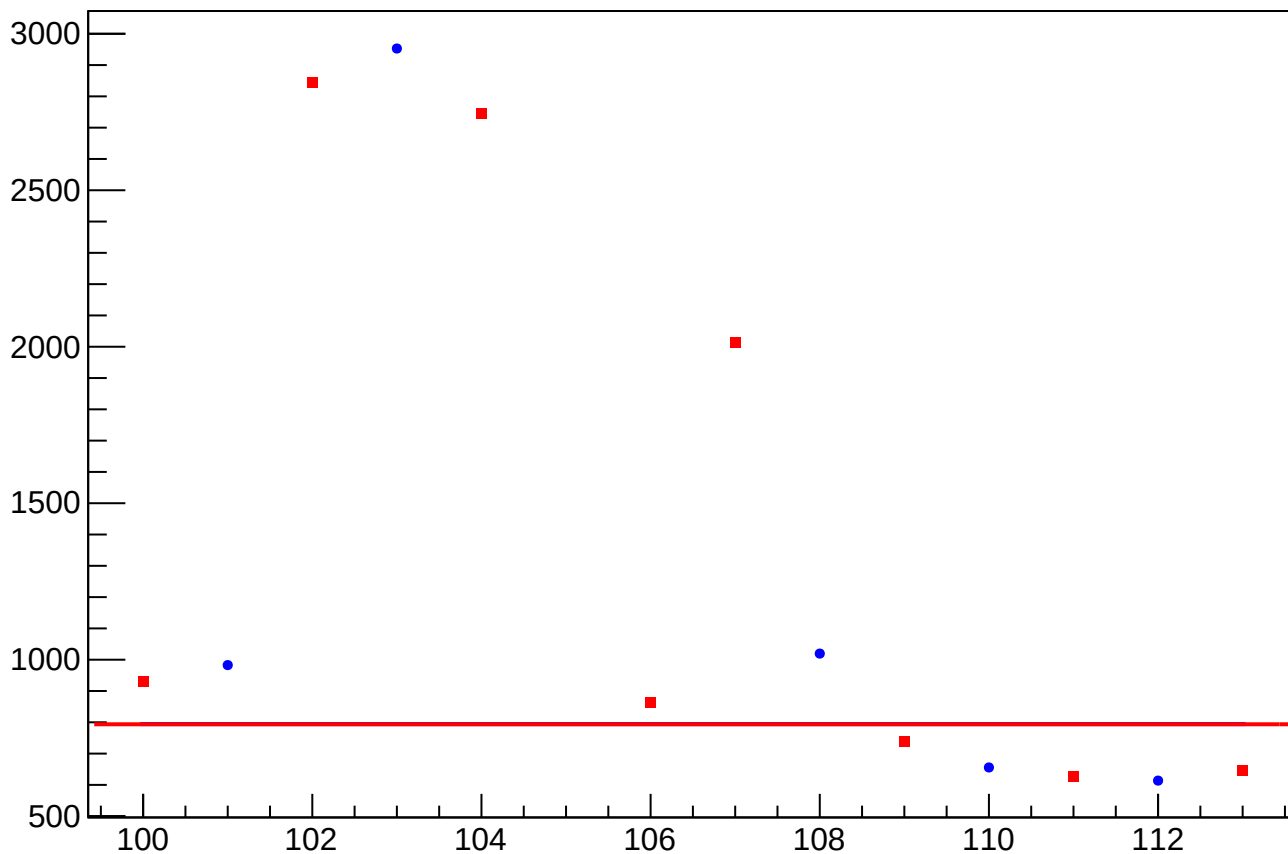
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -248.195 $\pm$ 371.095  $\chi^2$ /NDF: 17.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_dd\_dit\_correction\_rms vs Slug



Right In: 794.224+/-0.389  $\chi^2/\text{NDF}$ : 849003.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 793.690+/-0.356  $\chi^2/\text{NDF}$ : 1494359.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

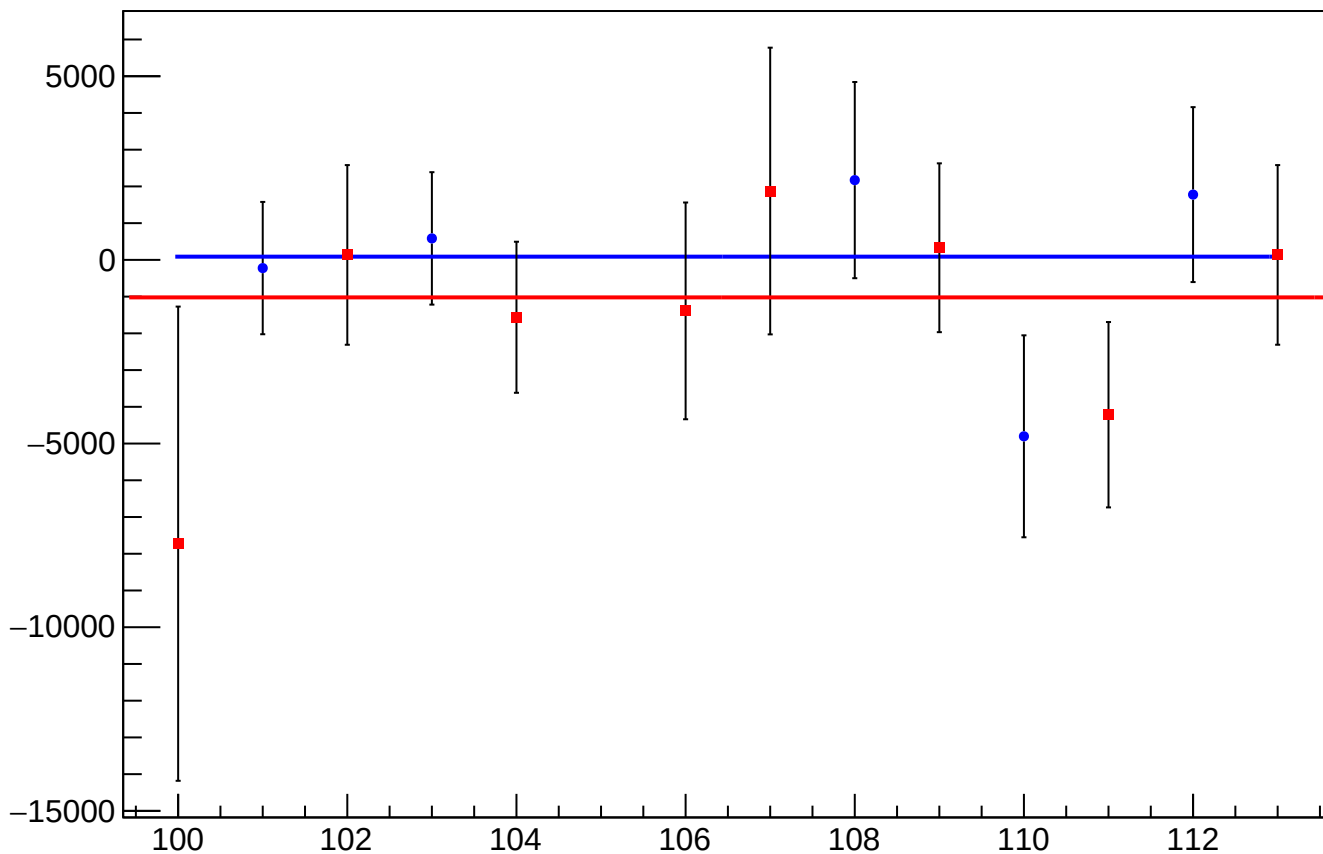
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 793.933+/-0.262  $\chi^2/\text{NDF}$ : 2343364.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_usl\_atl1\_dd\_mean vs Slug



Right In: 87.836+/-969.046  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1021.113+/-944.110  $\chi^2/\text{NDF}$ : 4.1/7

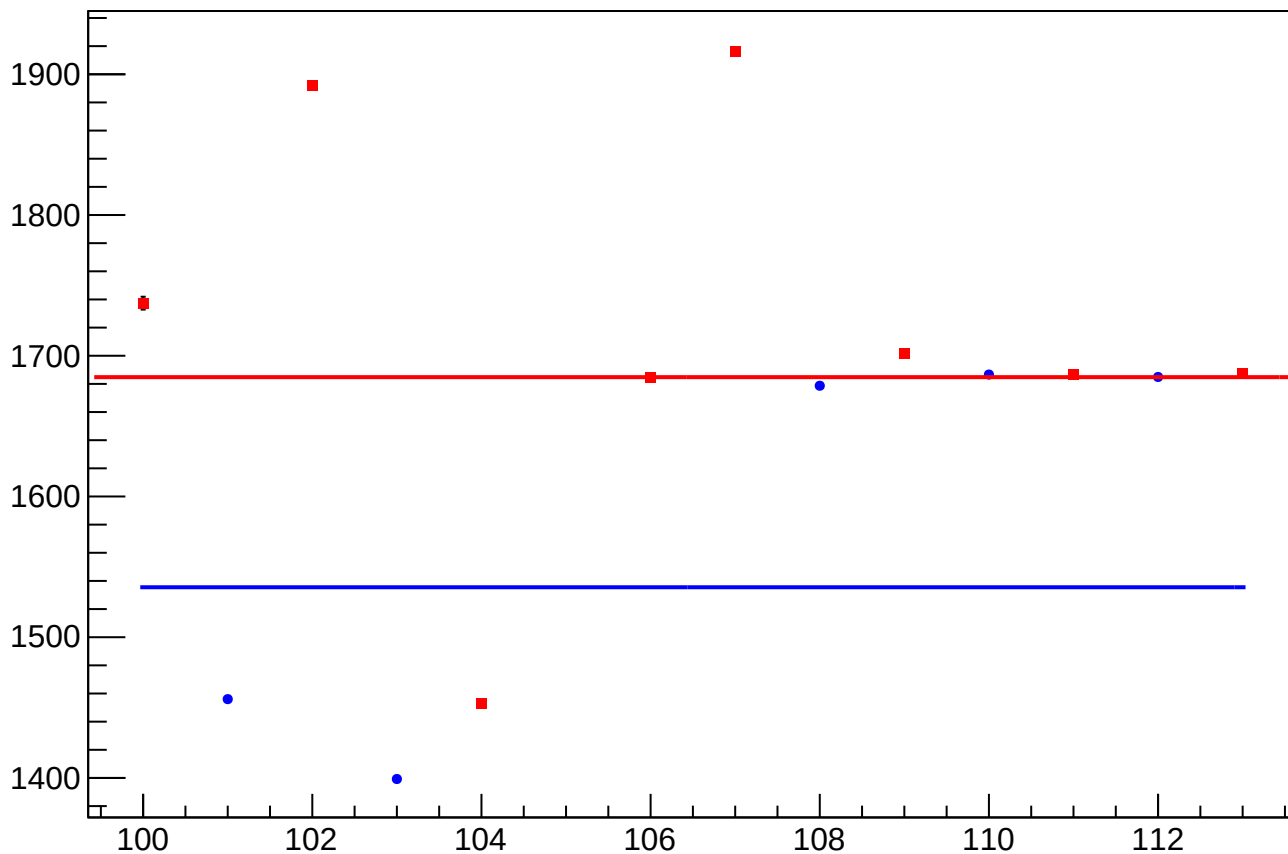
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -481.091+/-676.230  $\chi^2/\text{NDF}$ : 9.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1535.505 $\pm$ 0.685  $\chi^2$ /NDF: 34993.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1684.797 $\pm$ 0.668  $\chi^2$ /NDF: 47064.8/7

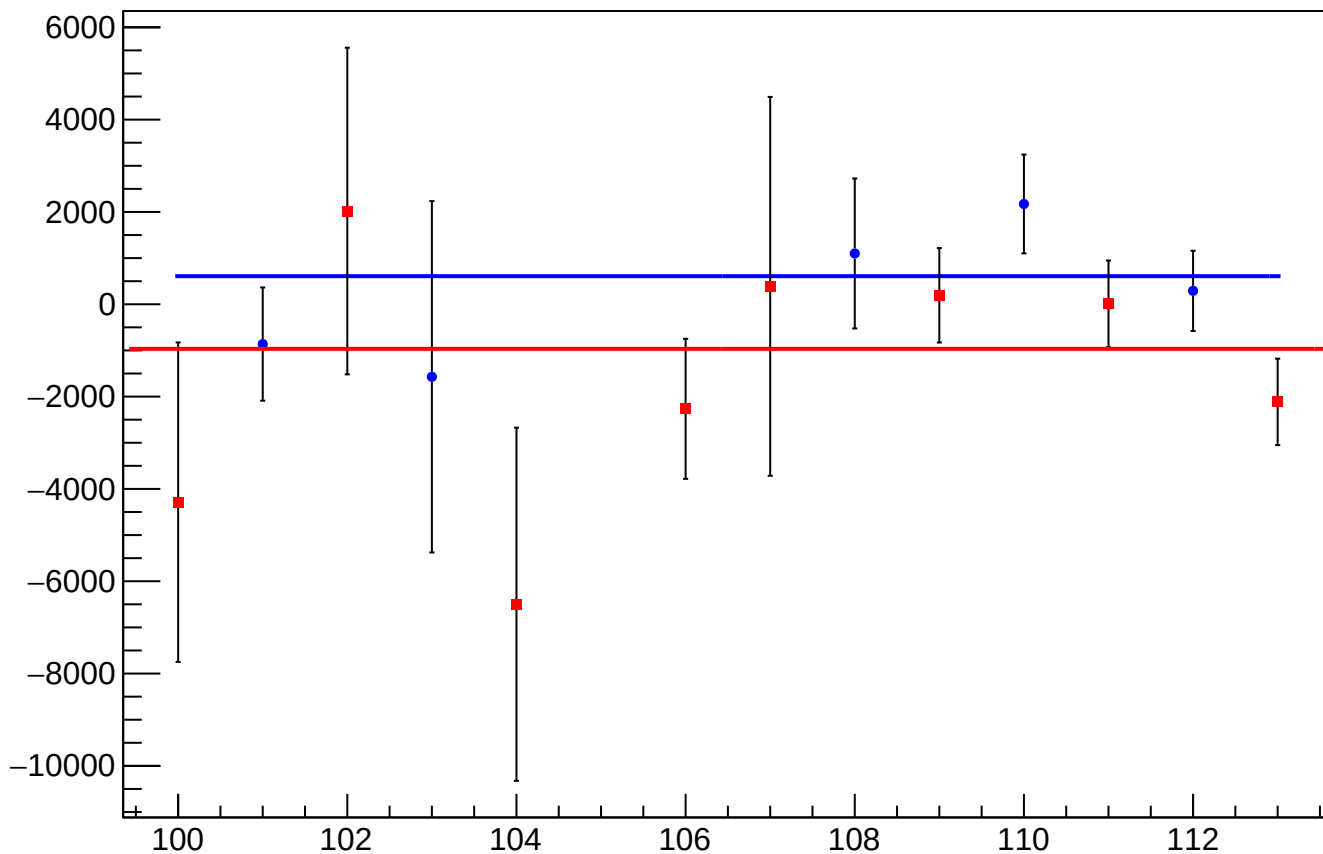
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1612.097 $\pm$ 0.478  $\chi^2$ /NDF: 106411.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 608.771 $\pm$ 549.756  $\chi^2$ /NDF: 4.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -965.519 $\pm$ 502.975  $\chi^2$ /NDF: 8.4/7

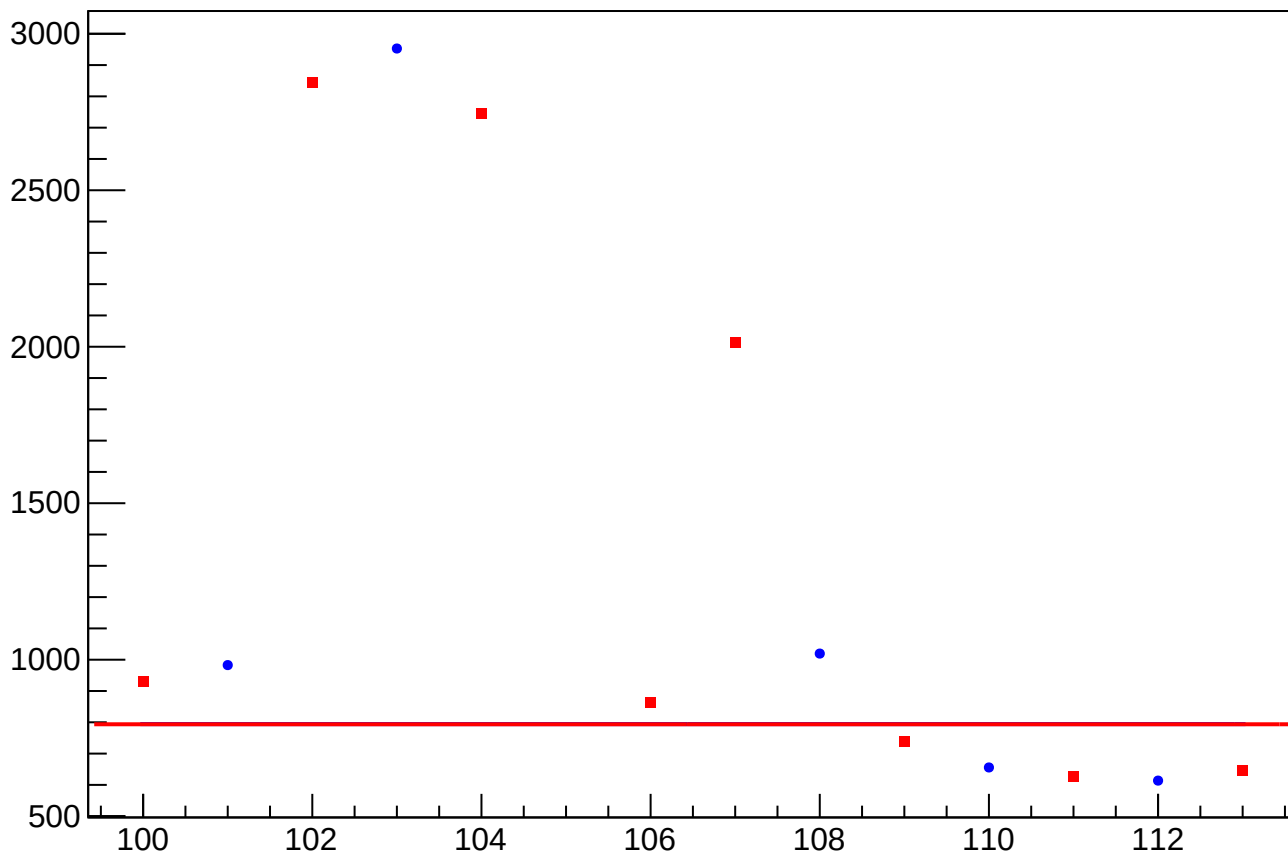
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -248.194 $\pm$ 371.095  $\chi^2$ /NDF: 17.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 794.224+/-0.389  $\chi^2/\text{NDF}$ : 849002.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 793.690+/-0.356  $\chi^2/\text{NDF}$ : 1494361.5/7

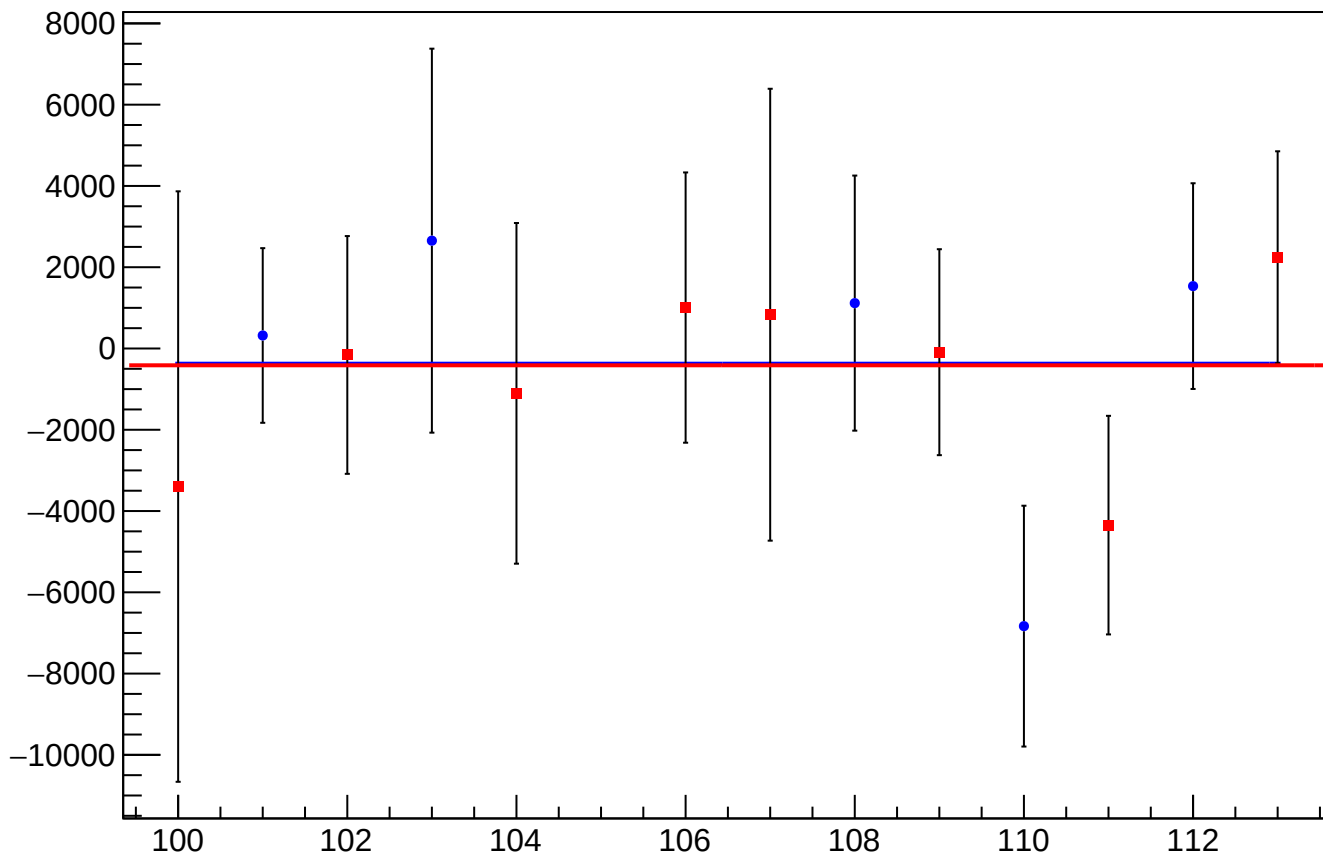
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 793.933+/-0.262  $\chi^2/\text{NDF}$ : 2343364.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_mean vs Slug



Right In: -374.300+/-1257.050  $\chi^2/\text{NDF}$ : 6.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -413.538+/-1149.783  $\chi^2/\text{NDF}$ : 3.6/7

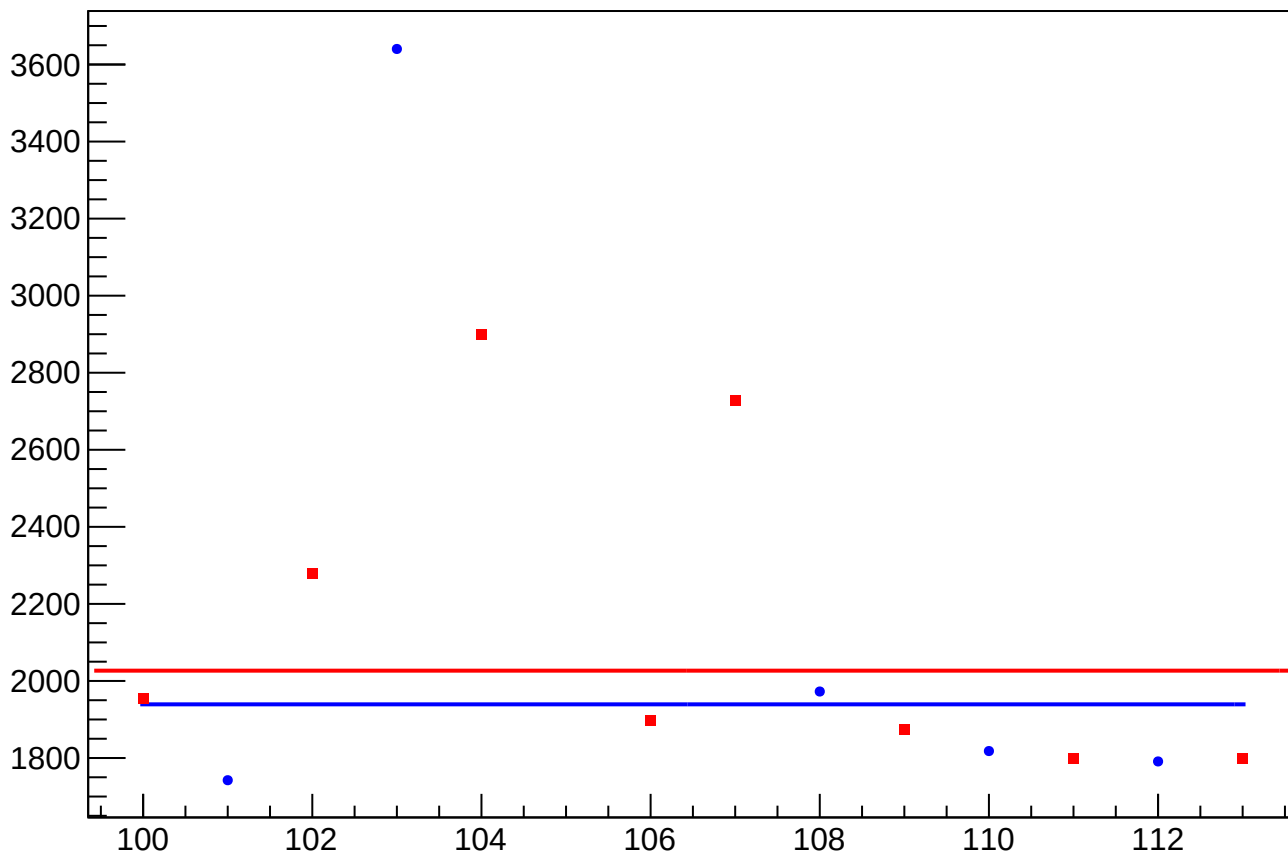
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -395.664+/-848.412  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1939.298+/-0.889  $\chi^2/\text{NDF}$ : 286474.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2026.723+/-0.813  $\chi^2/\text{NDF}$ : 173460.5/7

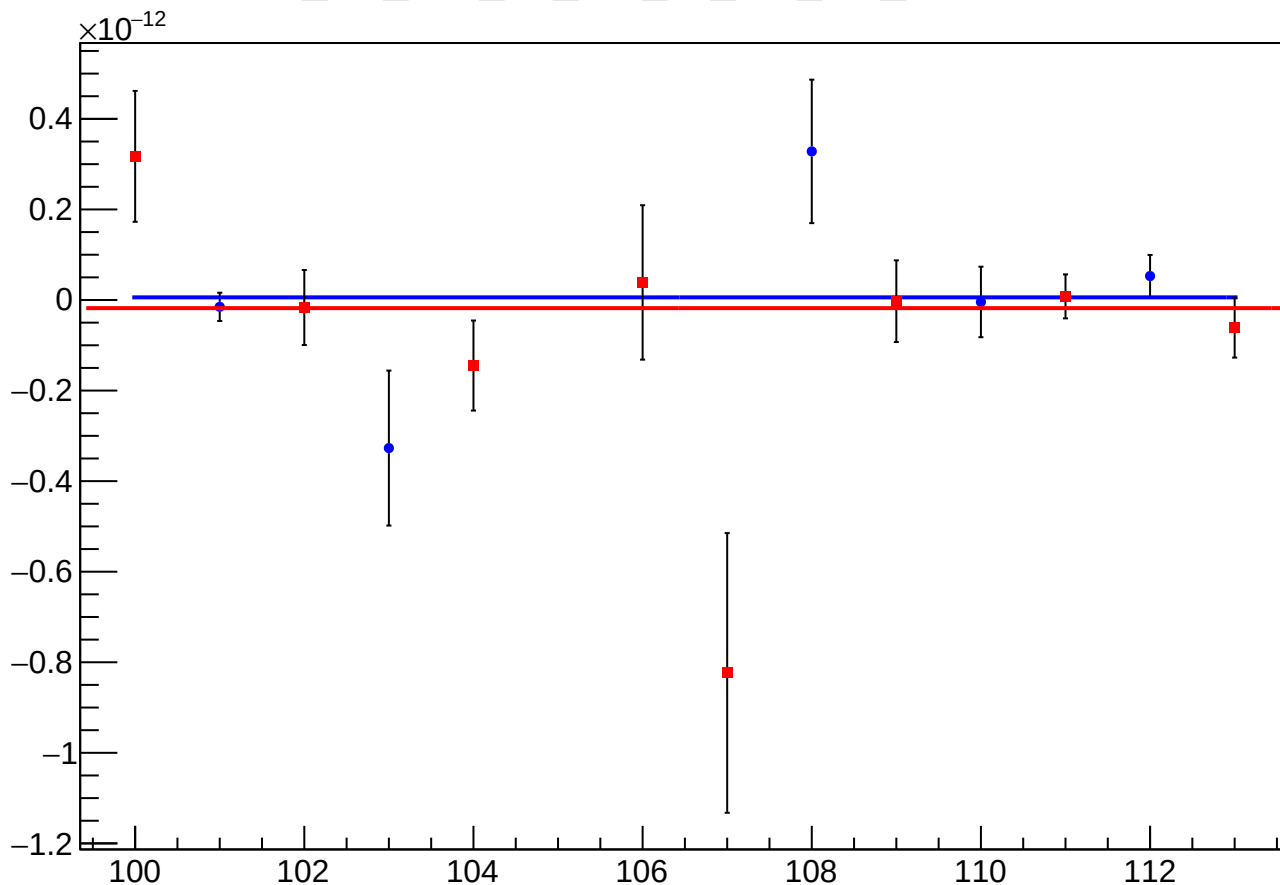
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1986.899+/-0.600  $\chi^2/\text{NDF}$ : 465202.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.7/7

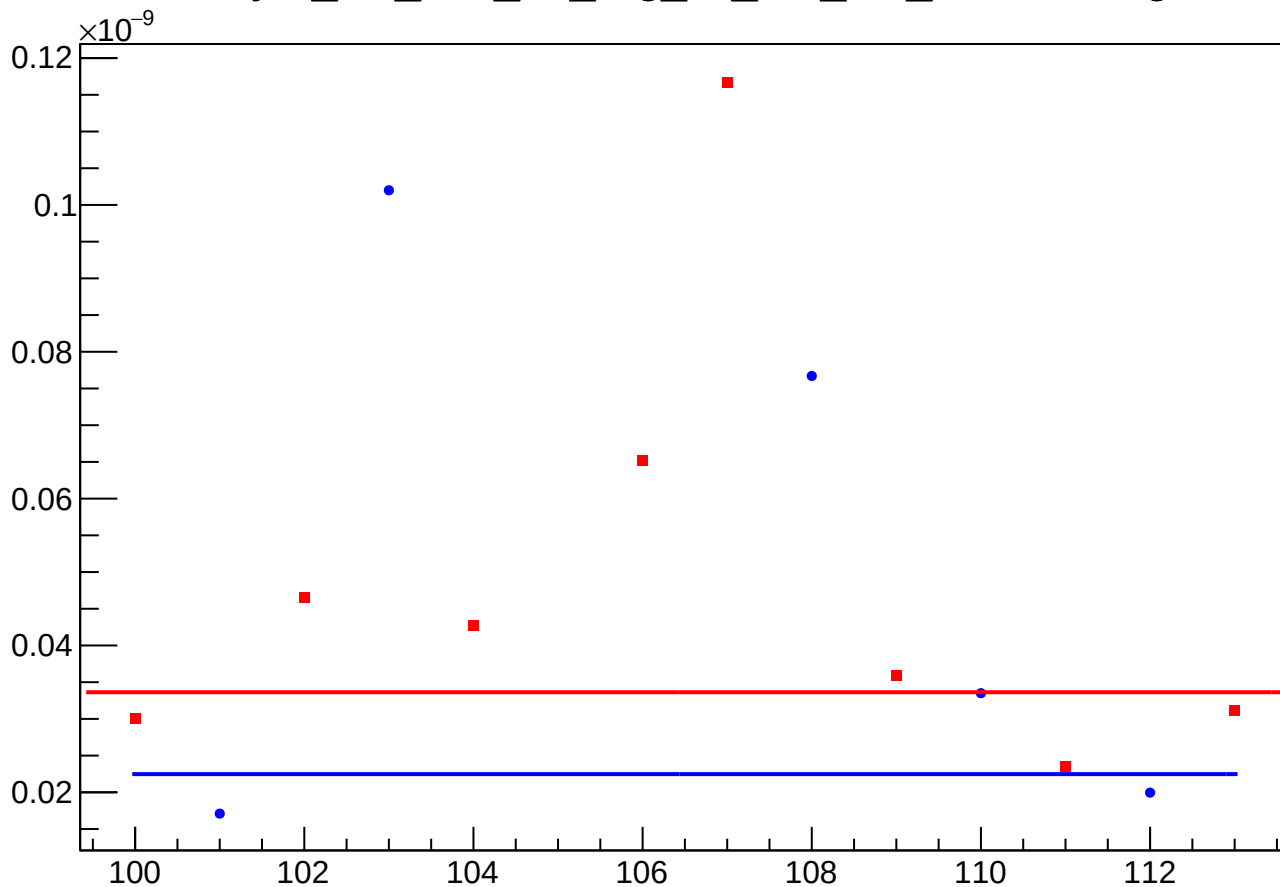
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 24.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 771796.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 370878.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

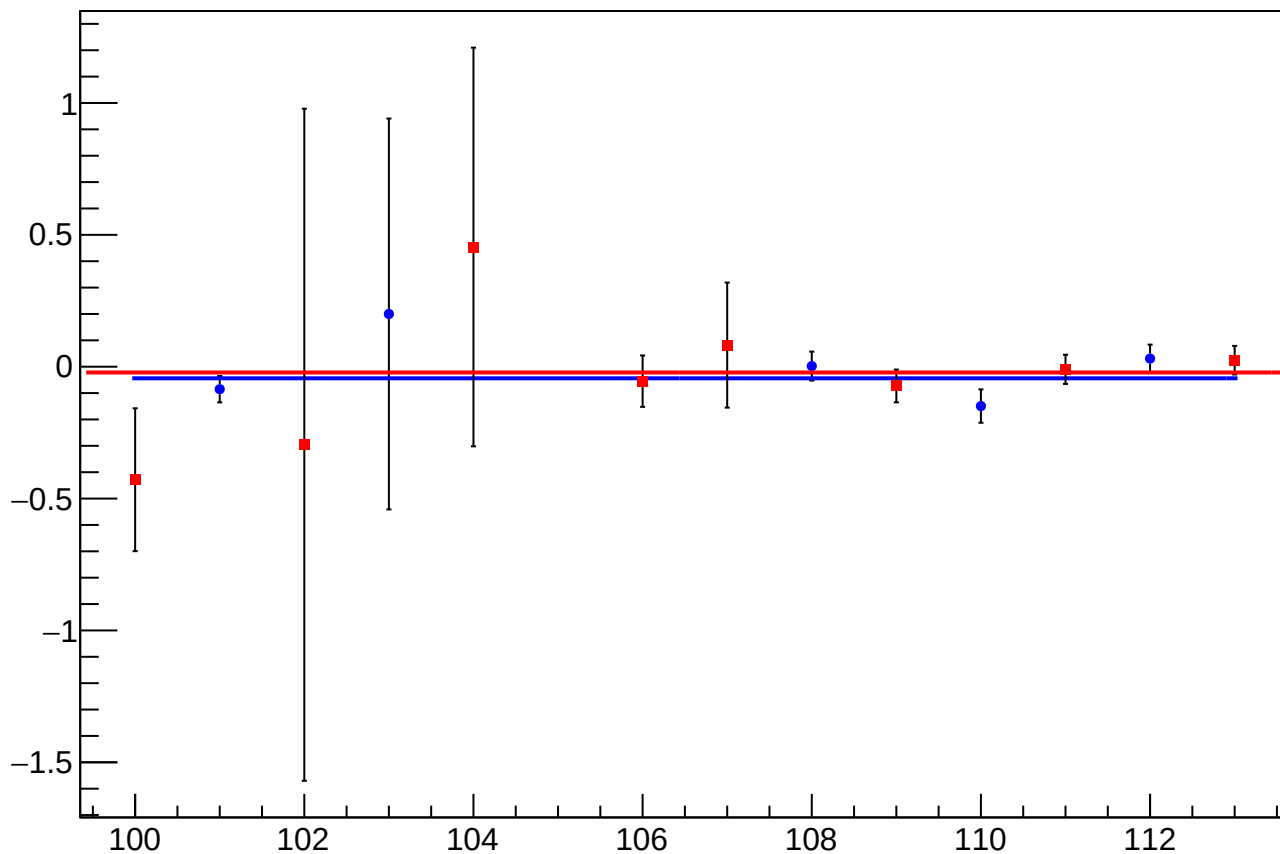
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1311268.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_usl\_atl1\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.044 \pm 0.027$   $\chi^2/\text{NDF}$ : 6.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.022 \pm 0.031$   $\chi^2/\text{NDF}$ : 4.5/7

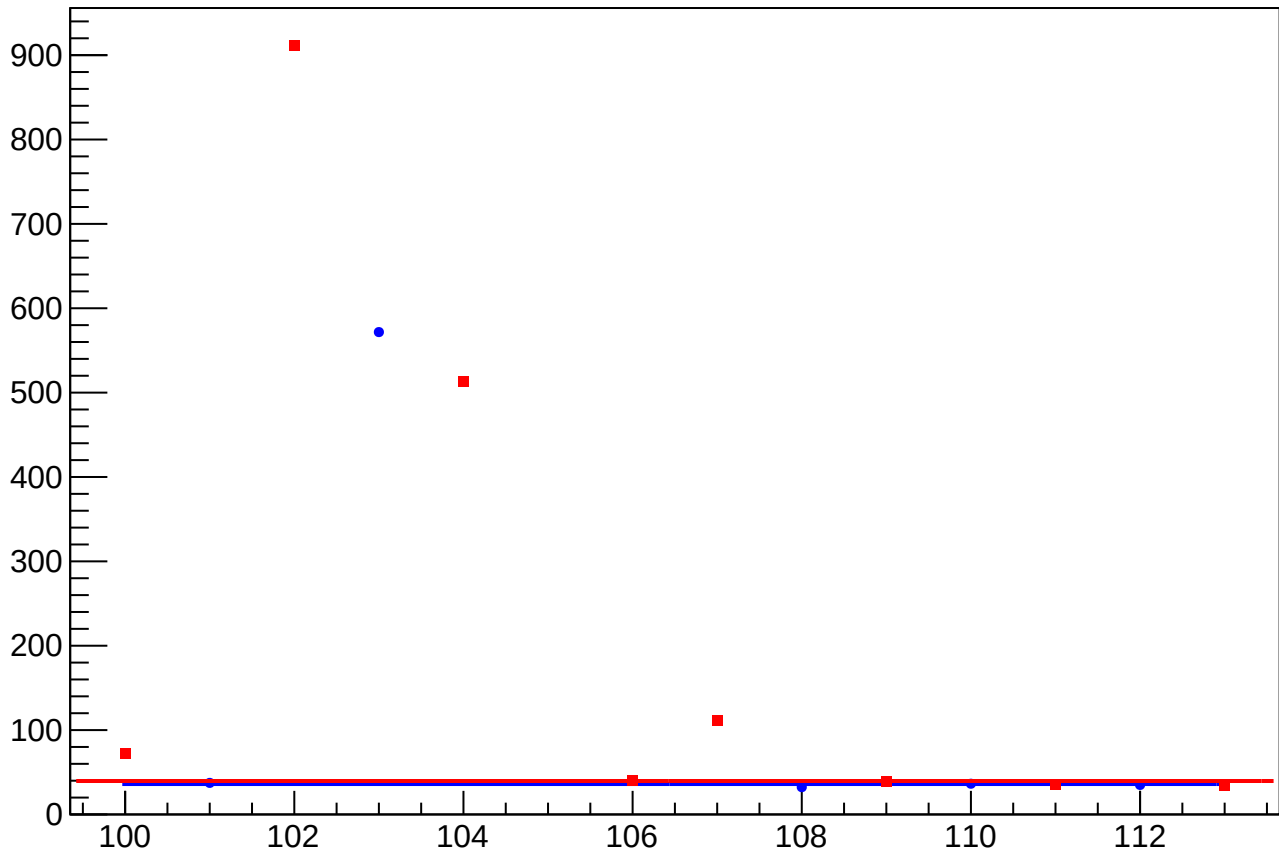
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.034 \pm 0.020$   $\chi^2/\text{NDF}$ : 11.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 36.060 $\pm$ 0.019  $\chi^2$ /NDF: 1056373.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 39.649 $\pm$ 0.022  $\chi^2$ /NDF: 1963013.8/7

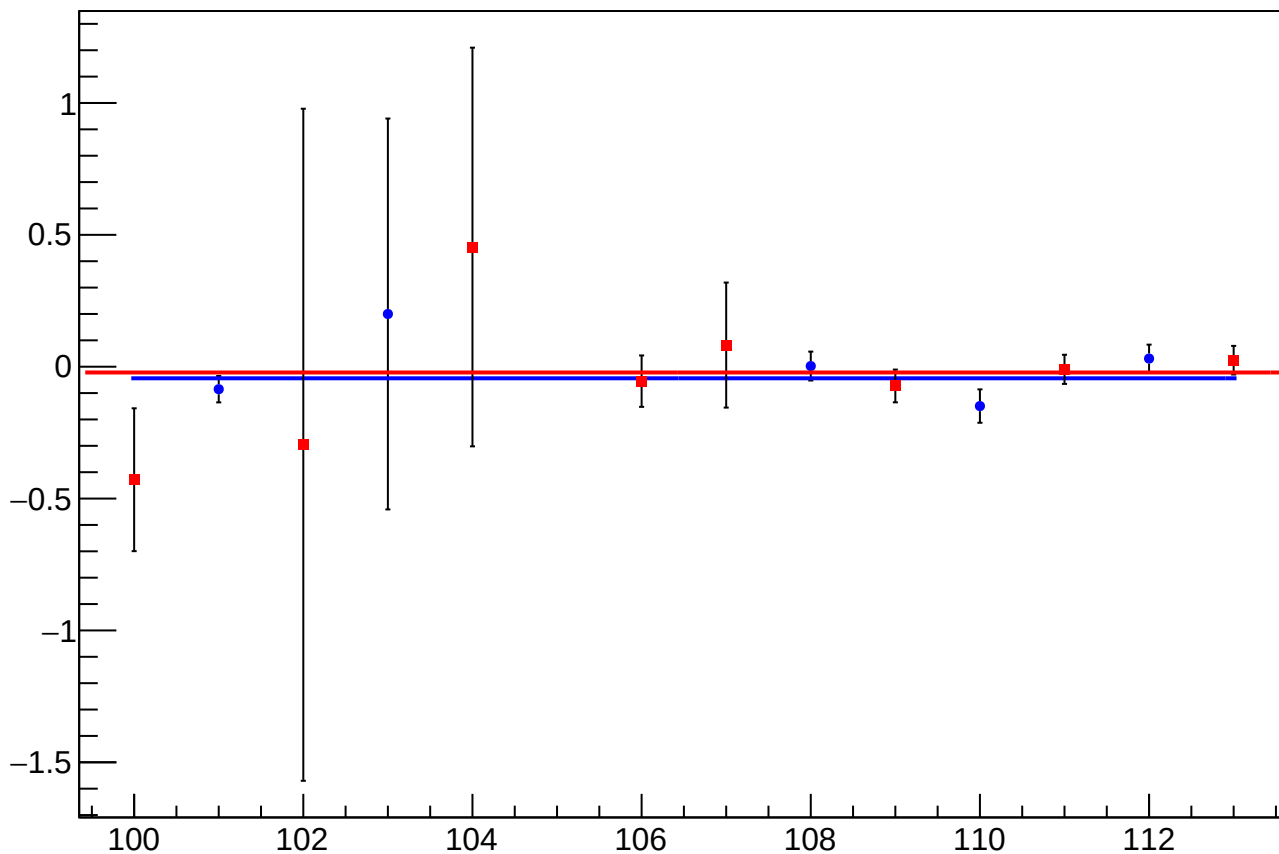
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.649 $\pm$ 0.014  $\chi^2$ /NDF: 3034691.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.044 \pm 0.027$   $\chi^2/\text{NDF}$ : 6.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.022 \pm 0.031$   $\chi^2/\text{NDF}$ : 4.5/7

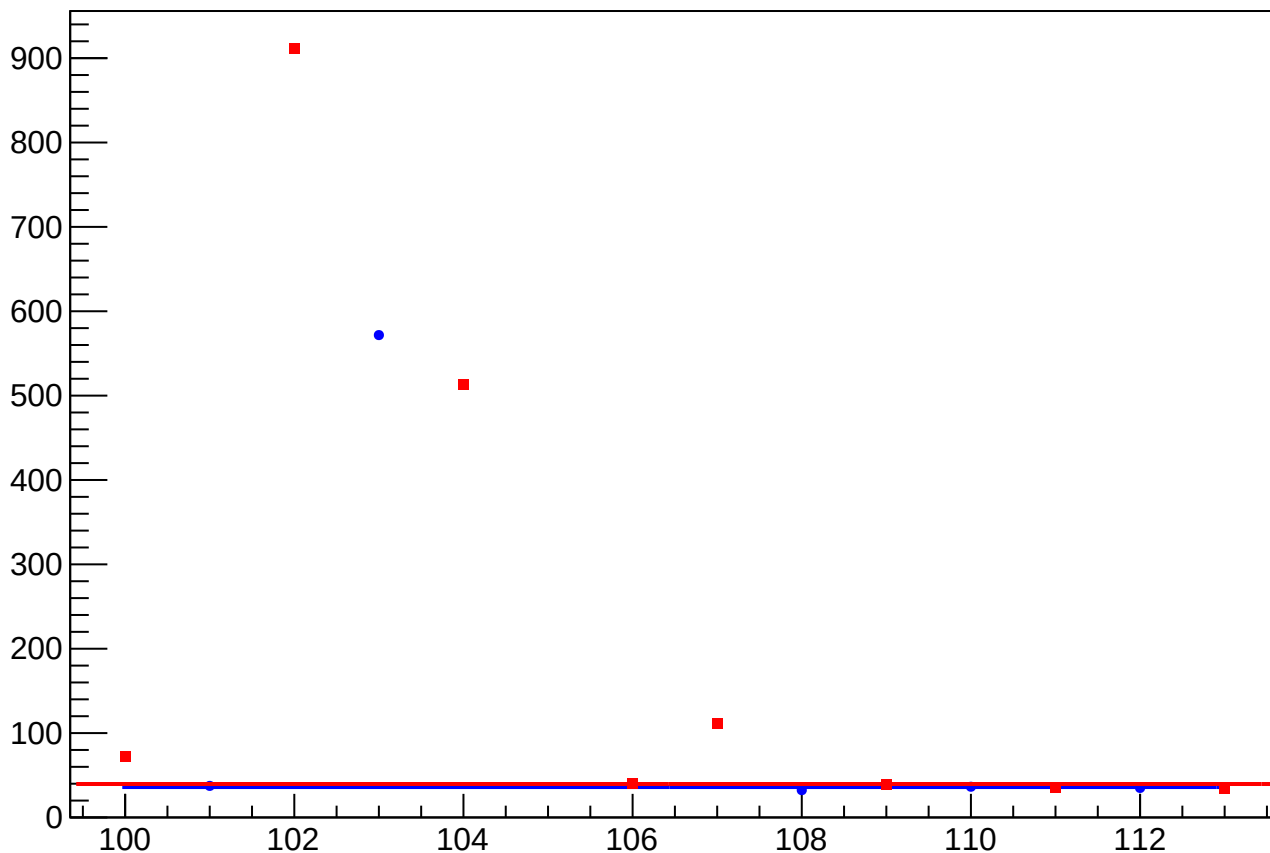
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.034 \pm 0.020$   $\chi^2/\text{NDF}$ : 11.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 36.060+/-0.019  $\chi^2/\text{NDF}$ : 1056373.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.649+/-0.022  $\chi^2/\text{NDF}$ : 1963013.8/7

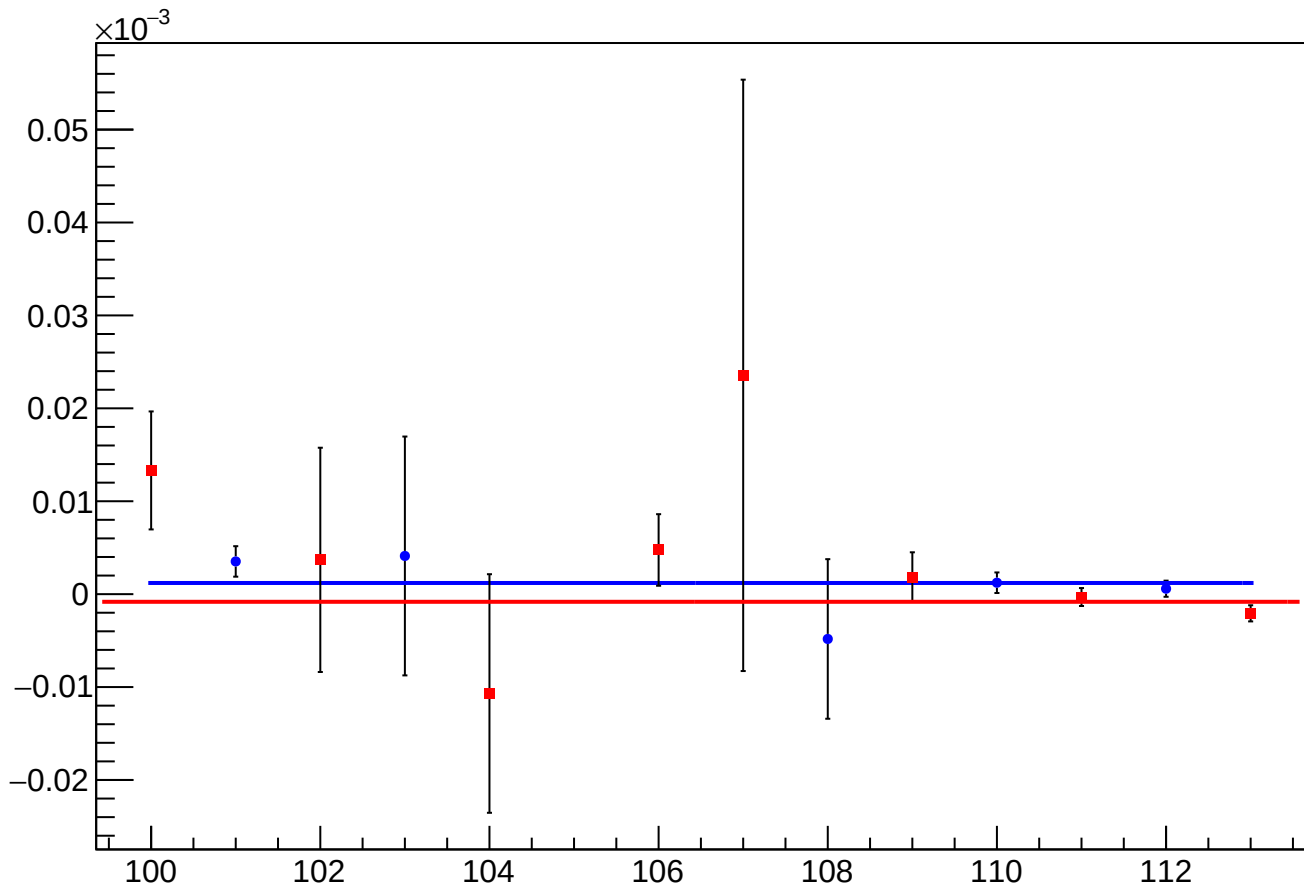
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.649+/-0.014  $\chi^2/\text{NDF}$ : 3034691.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.7/7

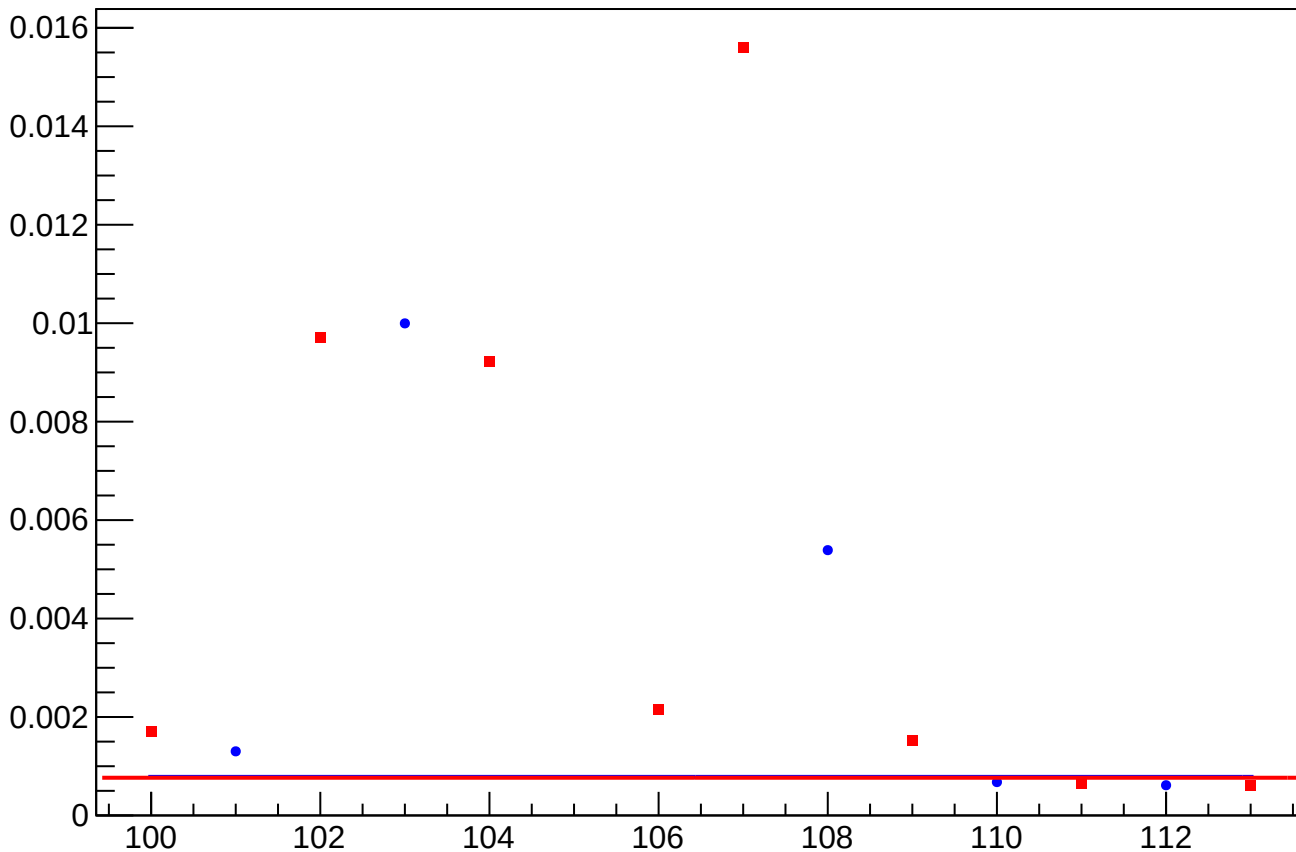
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 20.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1897331.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2974232.9/7

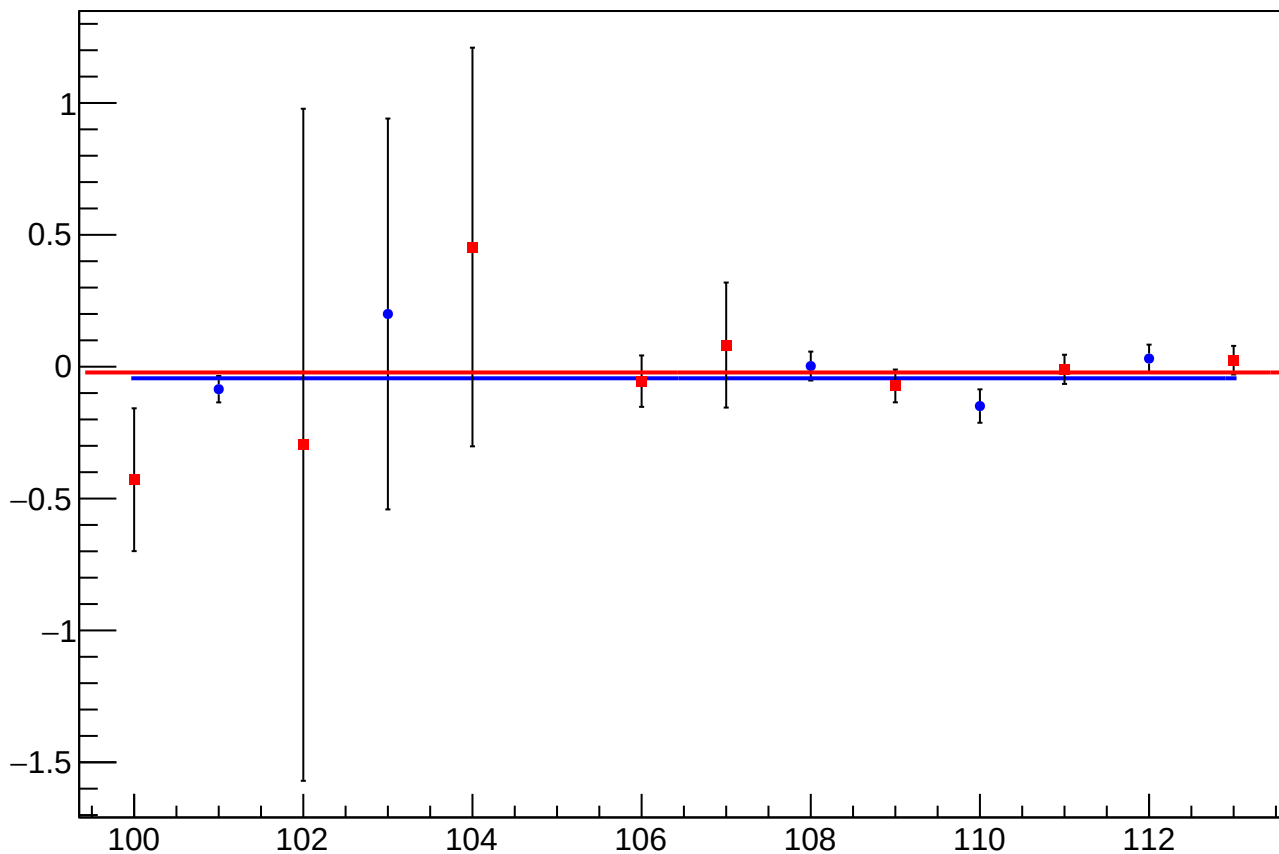
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4872353.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.044 \pm 0.027$   $\chi^2/\text{NDF}$ : 6.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.022 \pm 0.031$   $\chi^2/\text{NDF}$ : 4.5/7

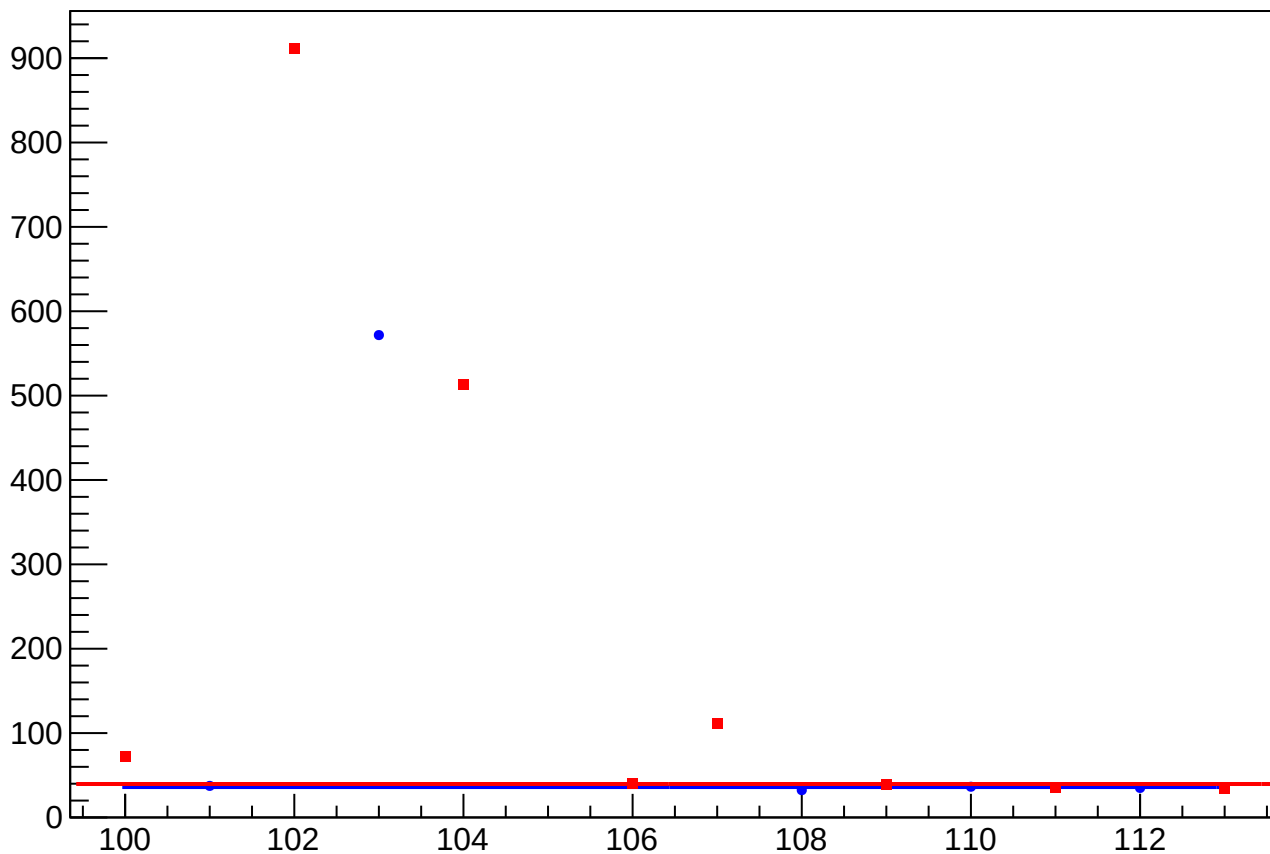
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.034 \pm 0.020$   $\chi^2/\text{NDF}$ : 11.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 36.060+/-0.019  $\chi^2/\text{NDF}$ : 1056366.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.650+/-0.022  $\chi^2/\text{NDF}$ : 1963005.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

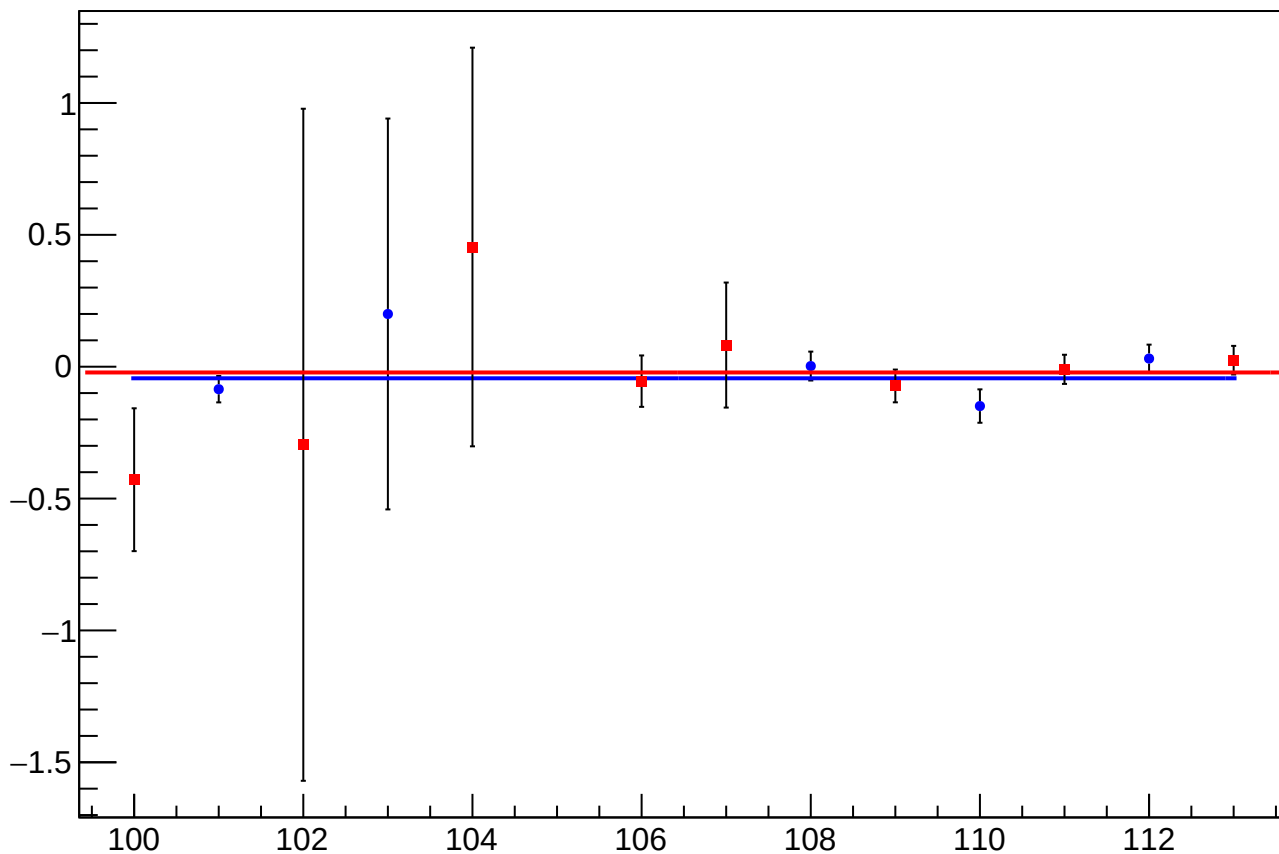
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.649+/-0.014  $\chi^2/\text{NDF}$ : 3034679.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.044 \pm 0.027$   $\chi^2/\text{NDF}$ : 6.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.022 \pm 0.031$   $\chi^2/\text{NDF}$ : 4.5/7

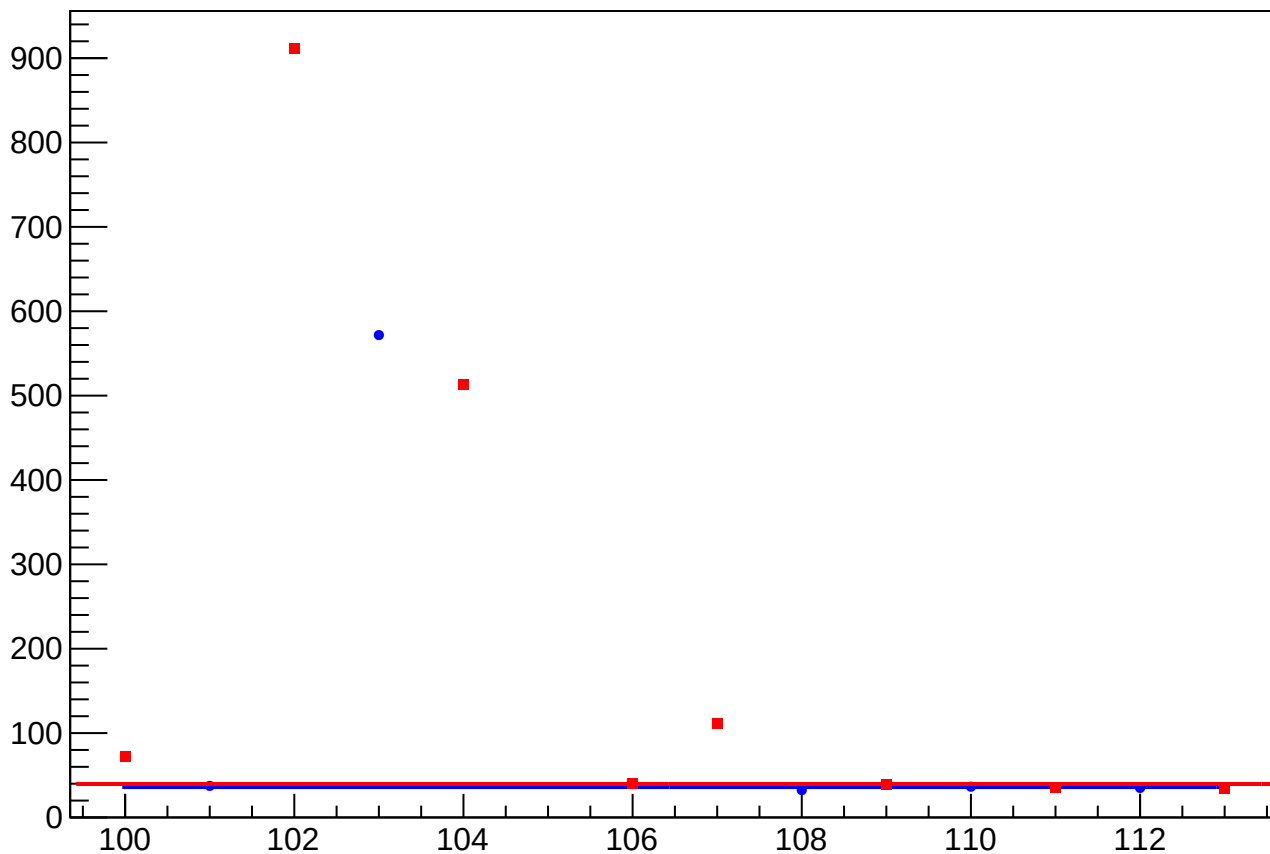
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.034 \pm 0.020$   $\chi^2/\text{NDF}$ : 11.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 36.060 $\pm$ 0.019  $\chi^2$ /NDF: 1056366.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 39.650 $\pm$ 0.022  $\chi^2$ /NDF: 1963005.2/7

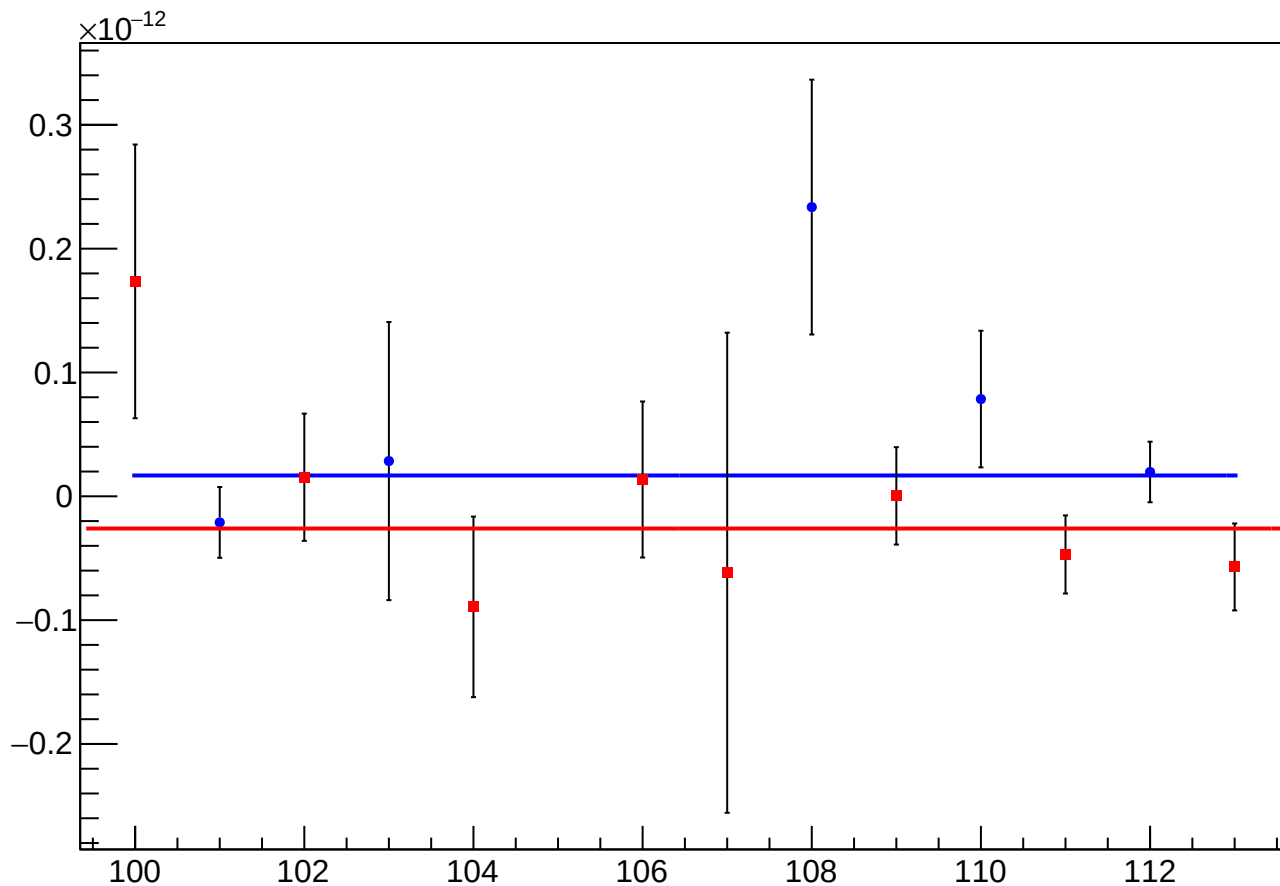
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.649 $\pm$ 0.014  $\chi^2$ /NDF: 3034679.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.8/7

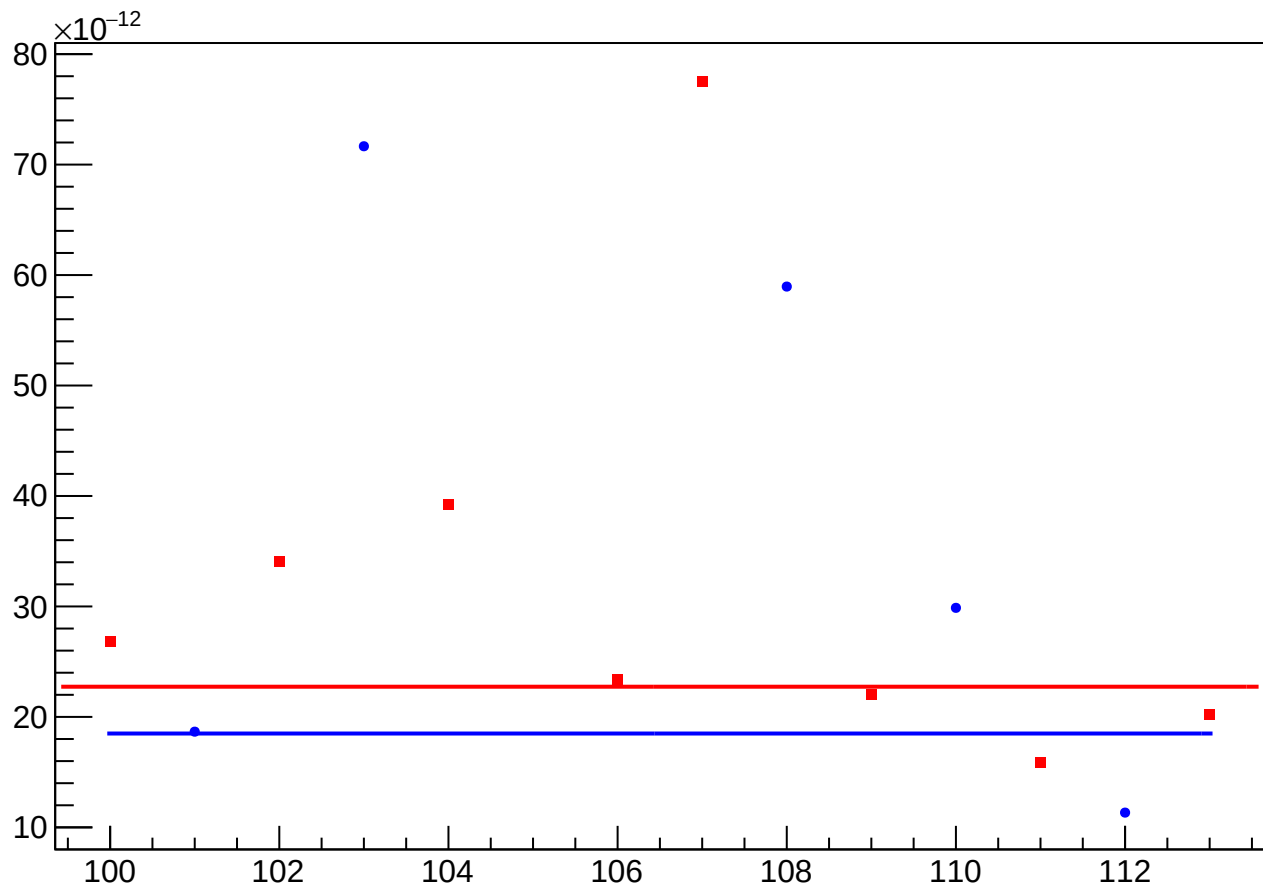
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1014102.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 467991.4/7

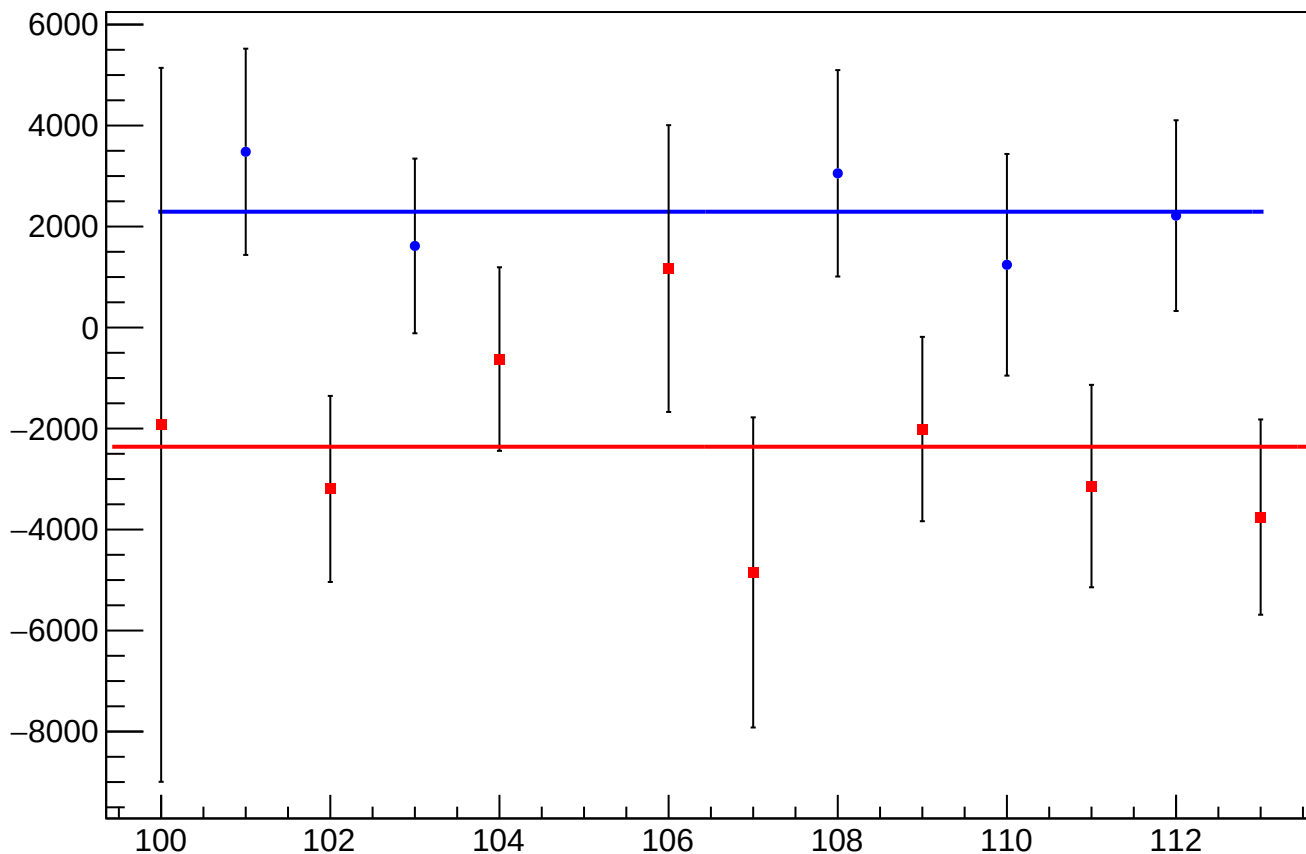
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1543036.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 2293.803 $\pm$ 876.525  $\chi^2$ /NDF: 0.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2360.007 $\pm$ 775.208  $\chi^2$ /NDF: 4.0/7

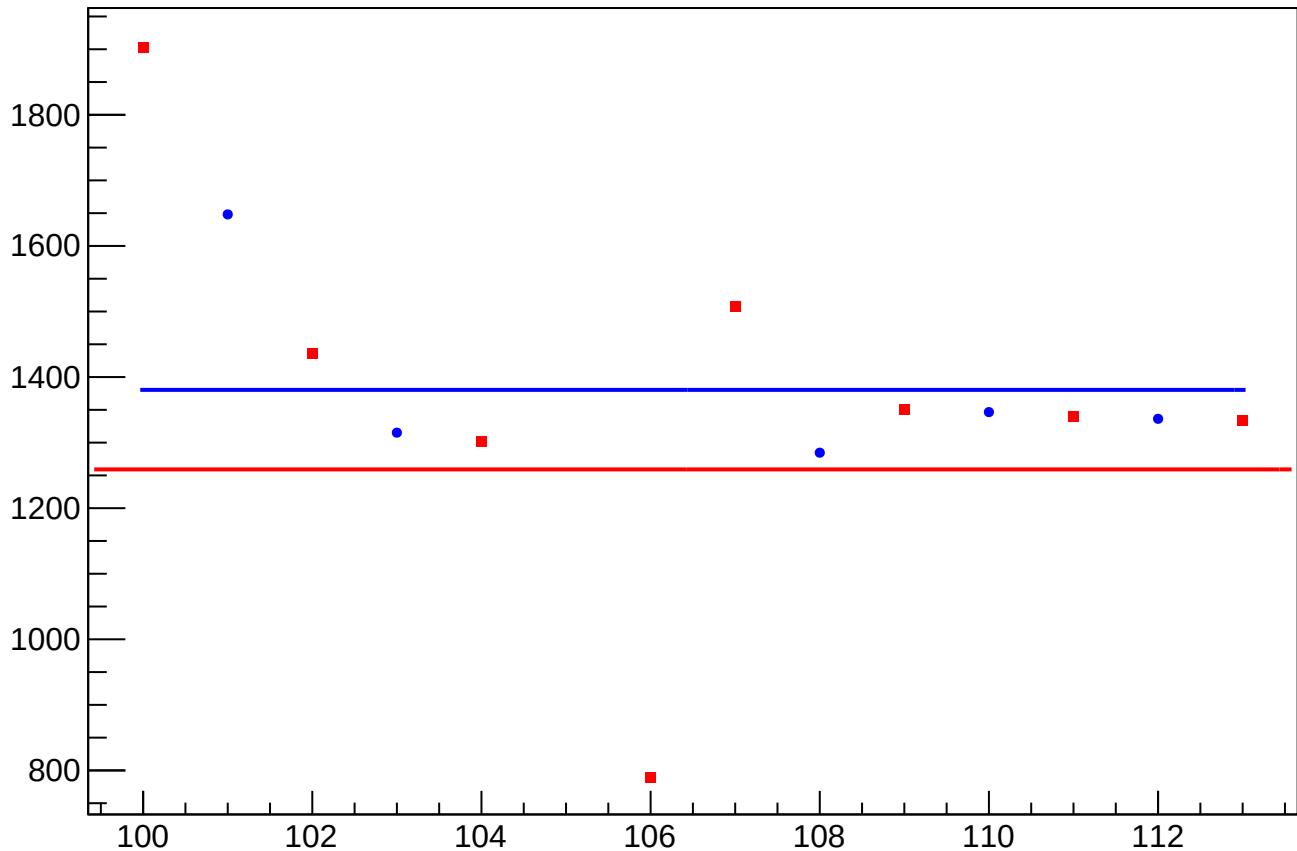
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -317.495 $\pm$ 580.687  $\chi^2$ /NDF: 20.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1380.463+/-0.620  $\chi^2/\text{NDF}$ : 43178.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1259.149+/-0.512  $\chi^2/\text{NDF}$ : 222306.5/7

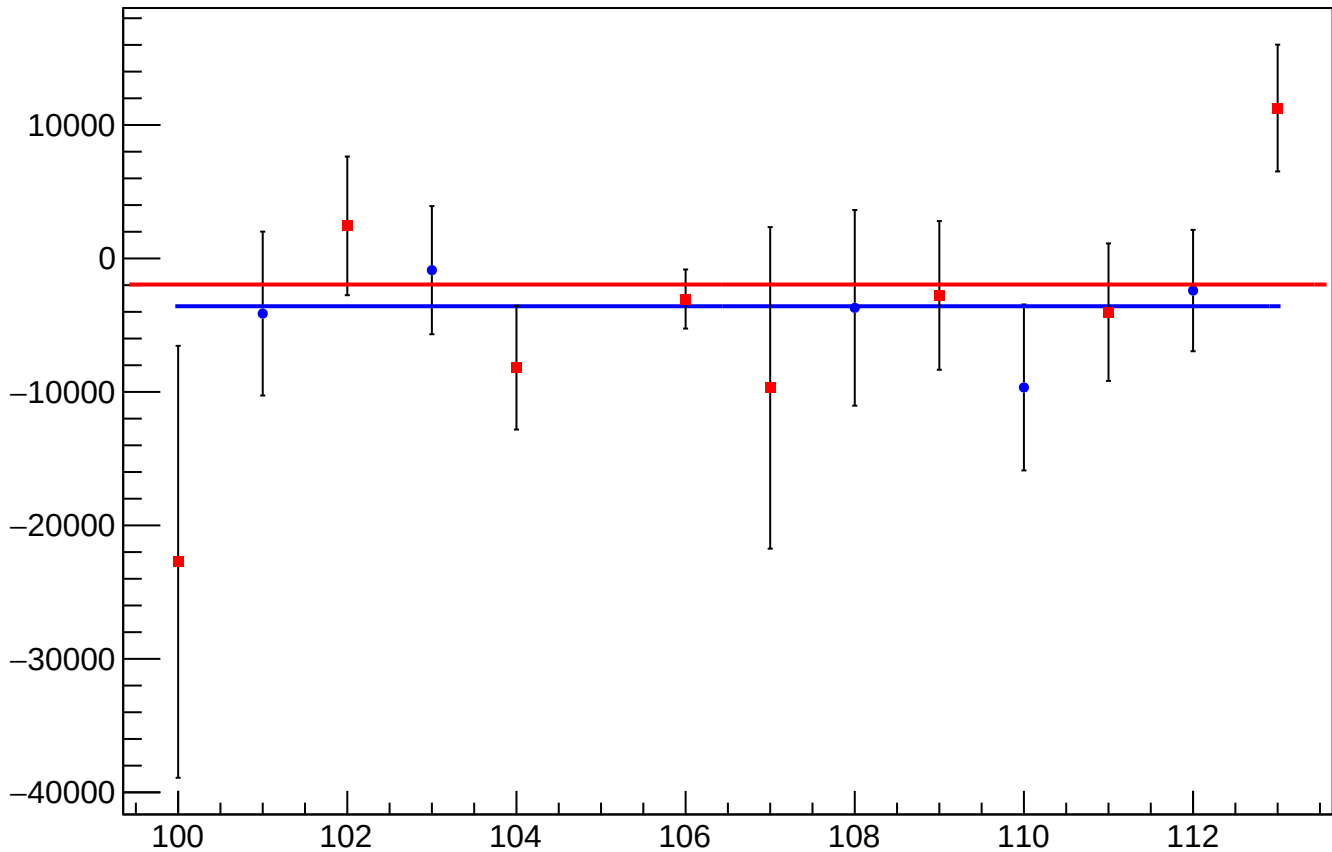
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1308.358+/-0.395  $\chi^2/\text{NDF}$ : 288255.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_avg\_reg\_correction\_mean vs Slug



Right In: -3580.324+/-2478.640  $\chi^2/\text{NDF}$ : 1.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1951.770+/-1556.746  $\chi^2/\text{NDF}$ : 12.8/7

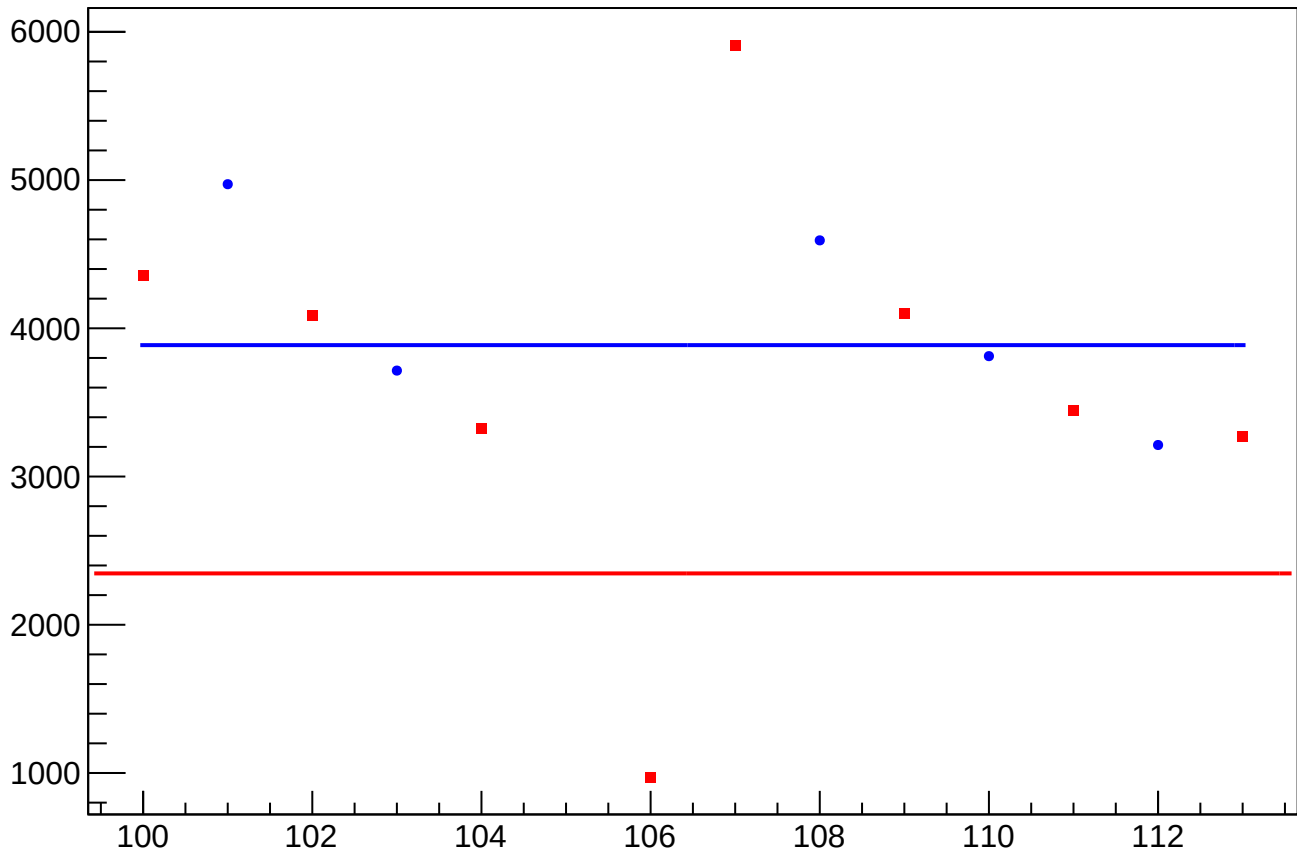
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2412.455+/-1318.299  $\chi^2/\text{NDF}$ : 14.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_avg\_reg\_correction\_rms vs Slug



Right In: 3886.513+/-1.753  $\chi^2/\text{NDF}$ : 127895.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2346.452+/-1.101  $\chi^2/\text{NDF}$ : 1656692.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

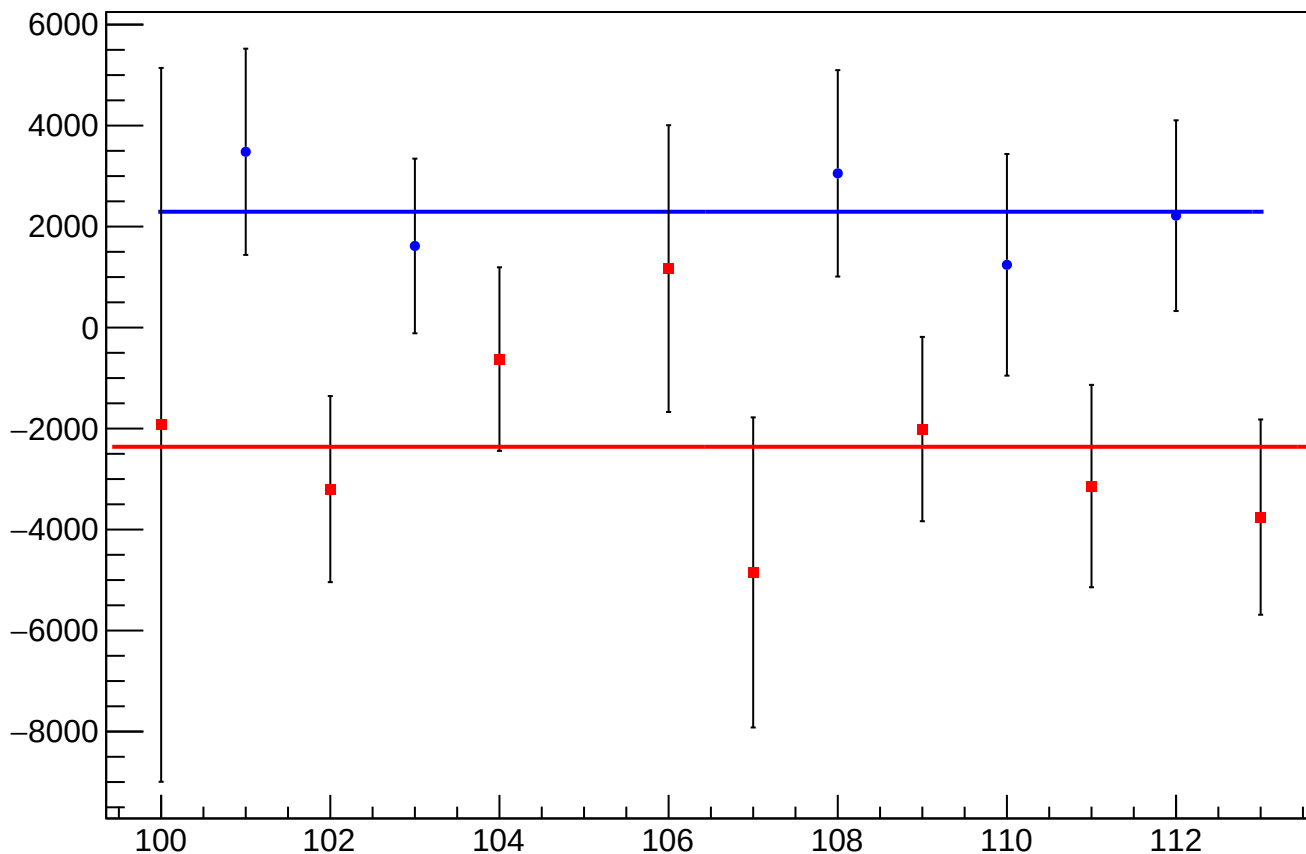
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2782.103+/-0.932  $\chi^2/\text{NDF}$ : 2338283.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 2293.980 $\pm$ 876.526  $\chi^2$ /NDF: 0.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2360.513 $\pm$ 775.219  $\chi^2$ /NDF: 4.0/7

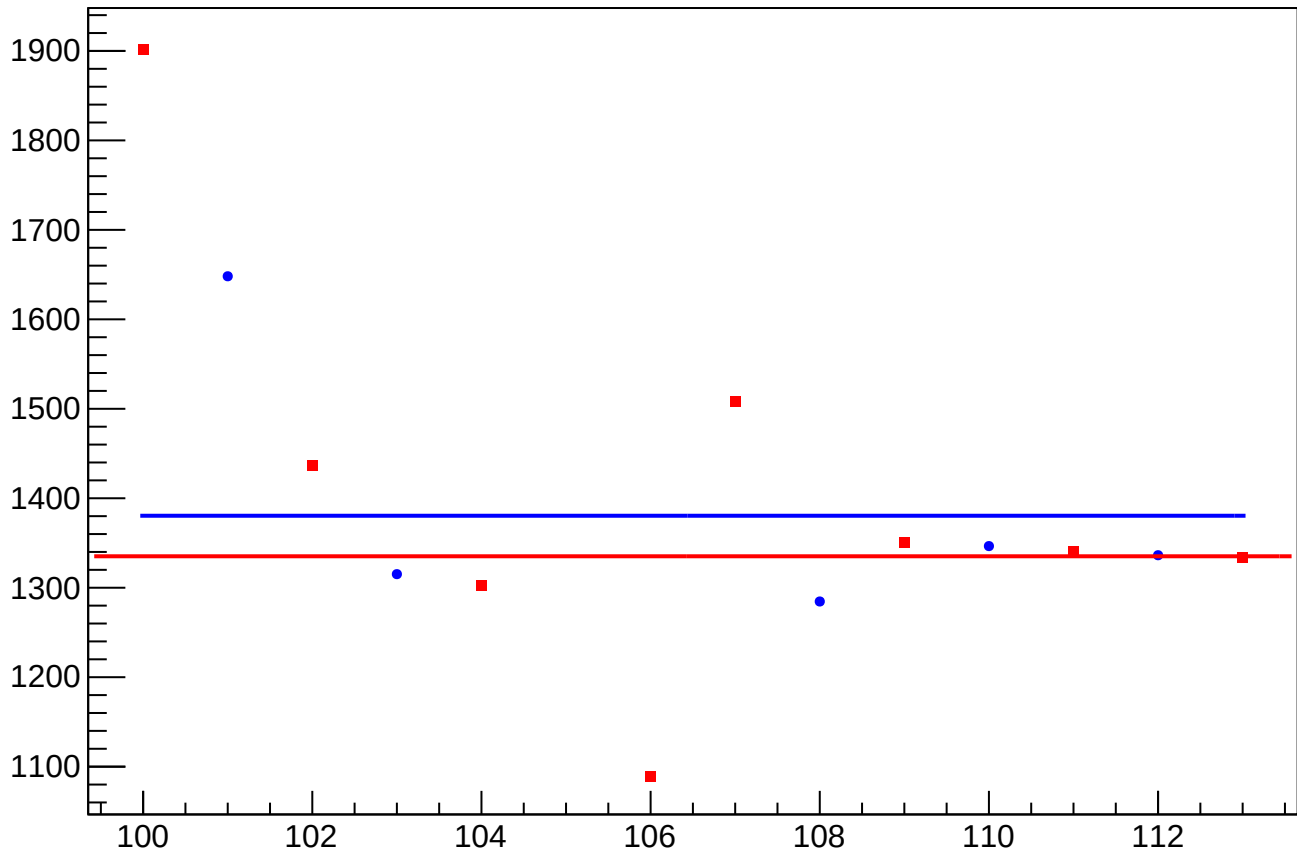
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -317.670 $\pm$ 580.692  $\chi^2$ /NDF: 20.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1380.462 $\pm$ 0.620  $\chi^2$ /NDF: 43177.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1335.158 $\pm$ 0.532  $\chi^2$ /NDF: 53263.2/7

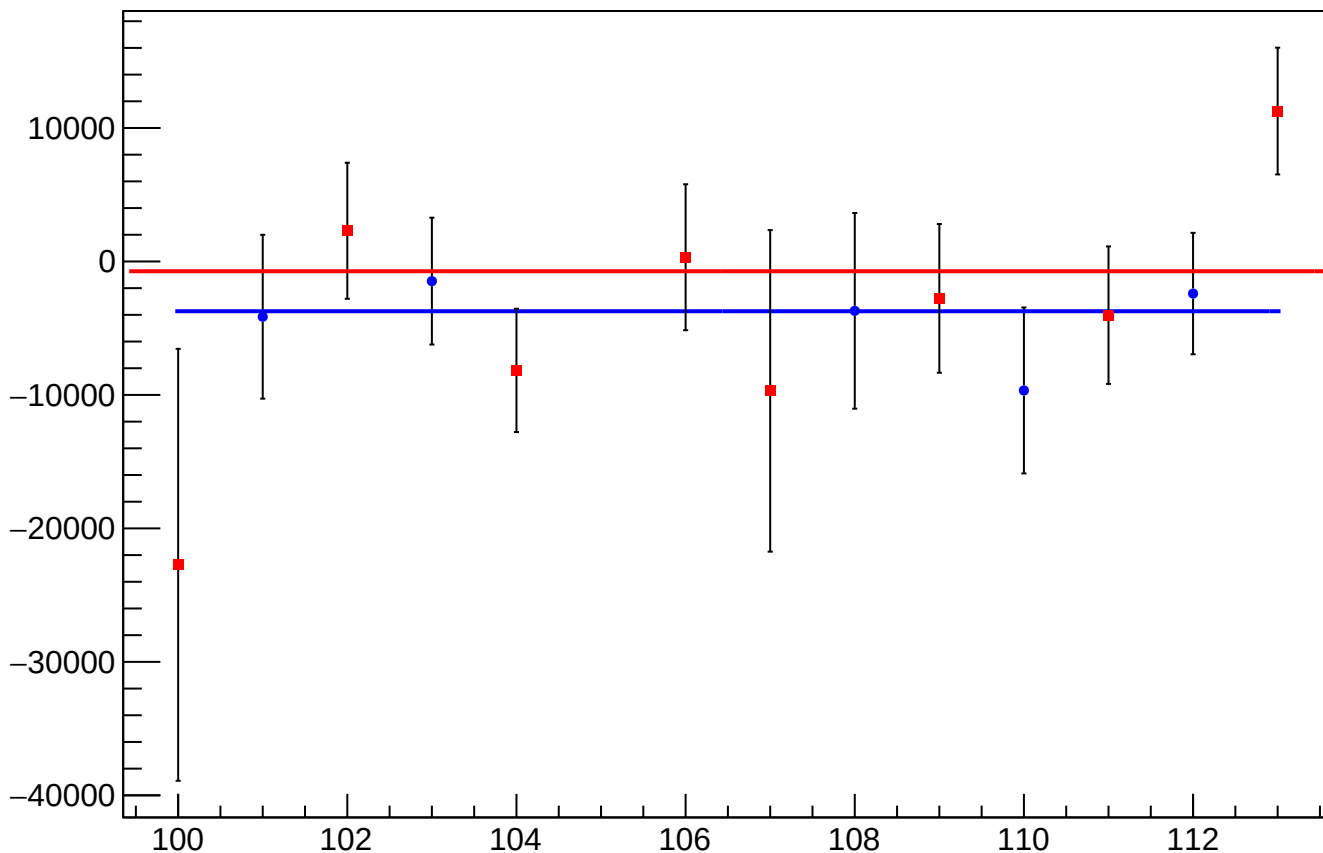
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1354.391 $\pm$ 0.404  $\chi^2$ /NDF: 99515.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_cor\_correction\_mean vs Slug



Right In: -3728.910+/-2471.762  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -731.414+/-2025.062  $\chi^2$ /NDF: 12.3/7

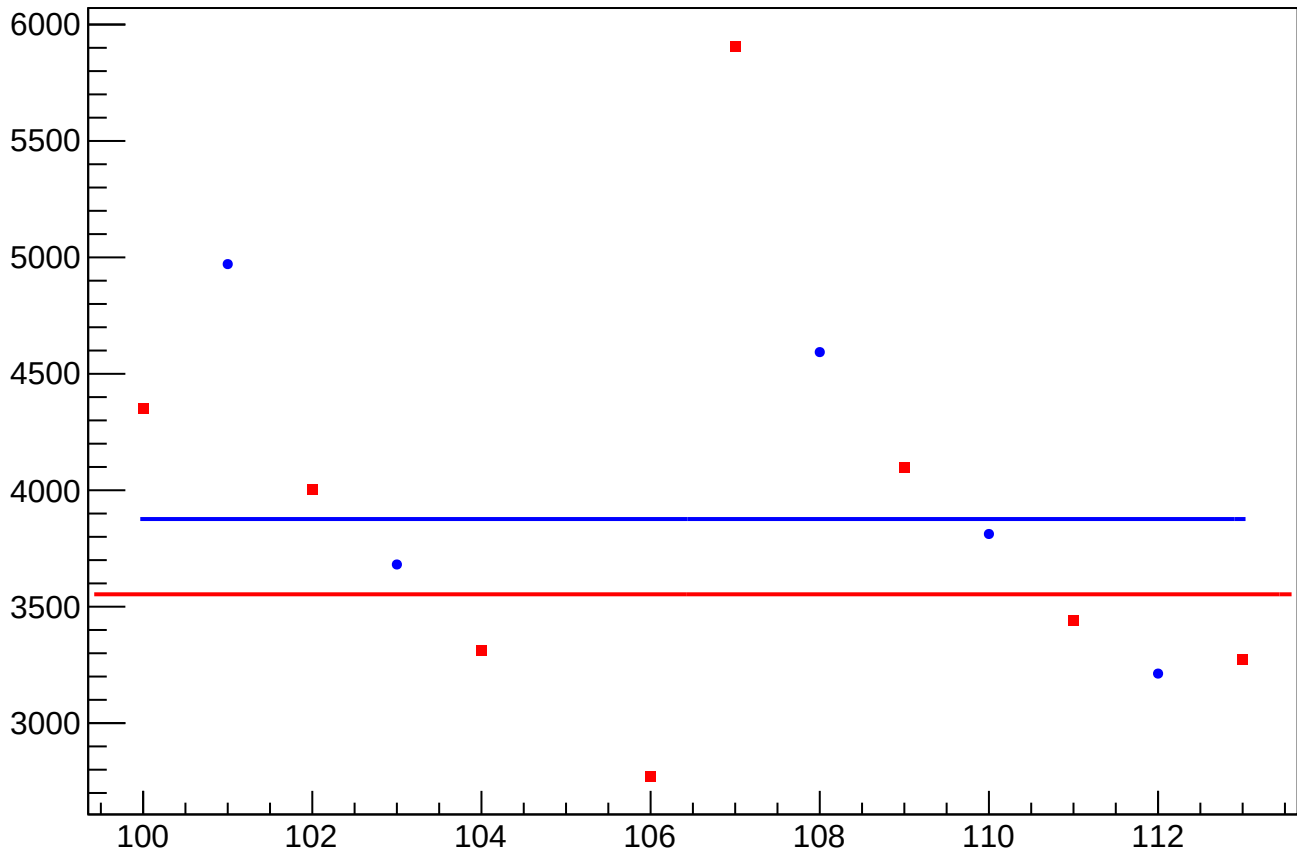
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1935.310+/-1566.469  $\chi^2$ /NDF: 14.4/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_avg\_cor\_correction\_rms vs Slug



Right In: 3876.399+/-1.748  $\chi^2/\text{NDF}$ : 128941.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3553.210+/-1.432  $\chi^2/\text{NDF}$ : 170536.2/7

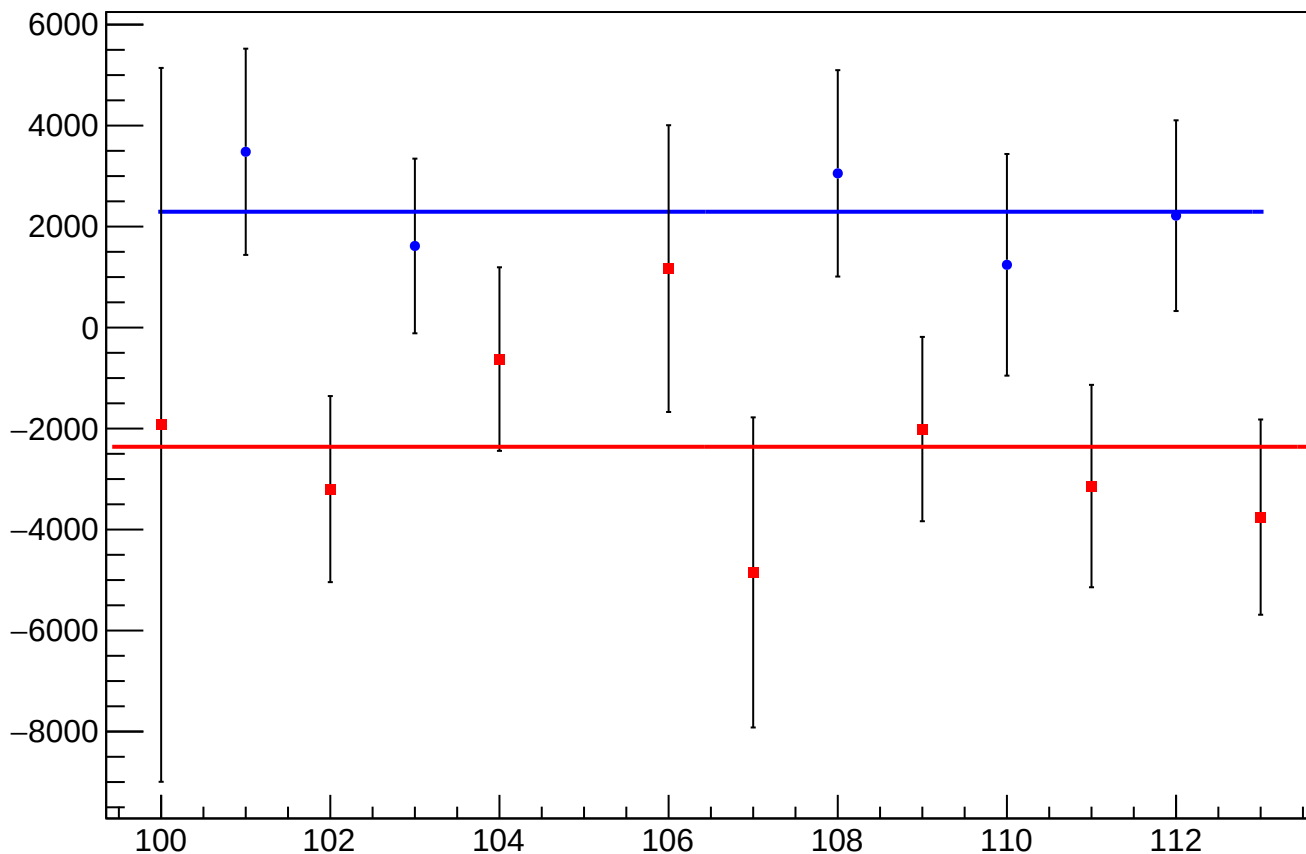
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3683.014+/-1.108  $\chi^2/\text{NDF}$ : 319937.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 2293.980 $\pm$ 876.526  $\chi^2$ /NDF: 0.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2360.513 $\pm$ 775.219  $\chi^2$ /NDF: 4.0/7

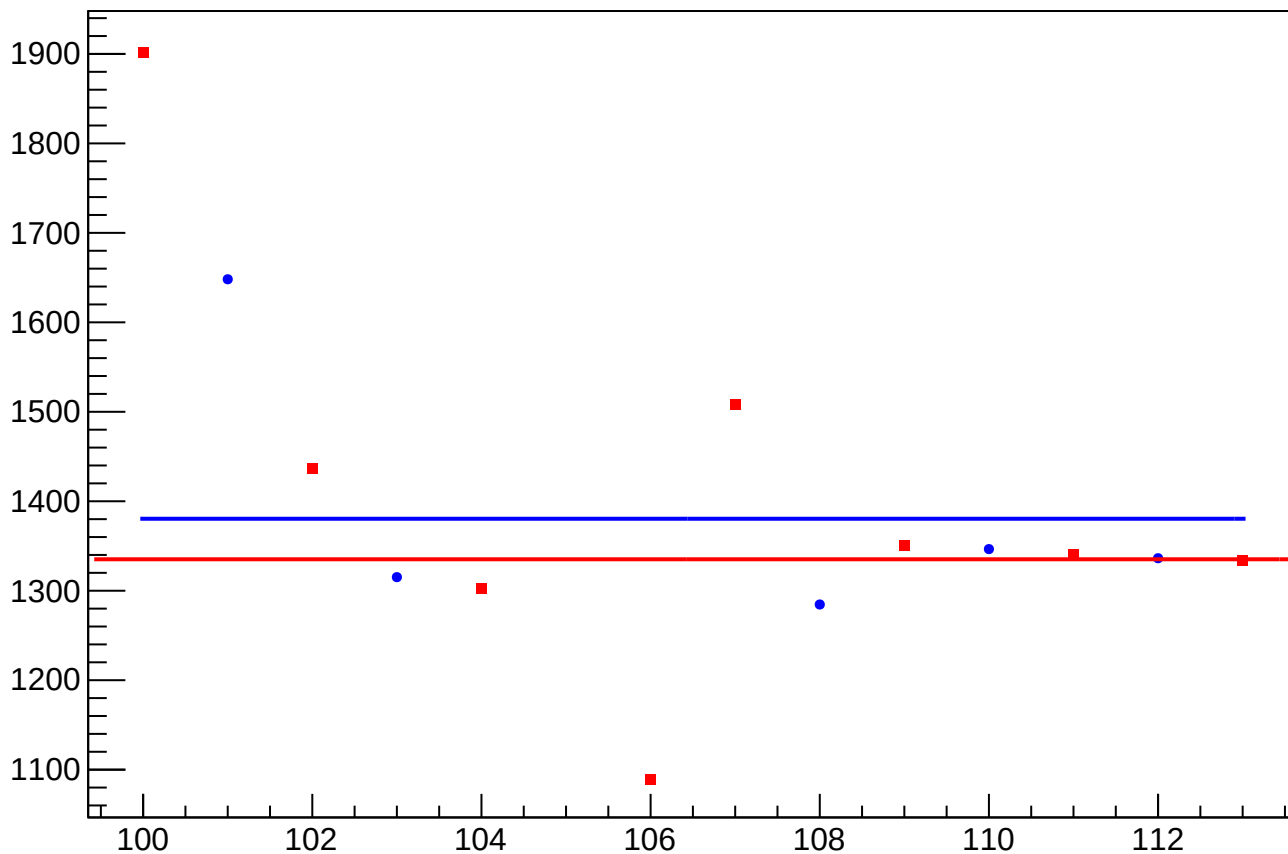
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -317.670 $\pm$ 580.692  $\chi^2$ /NDF: 20.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1380.462 $\pm$ 0.620  $\chi^2$ /NDF: 43177.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1335.158 $\pm$ 0.532  $\chi^2$ /NDF: 53263.2/7

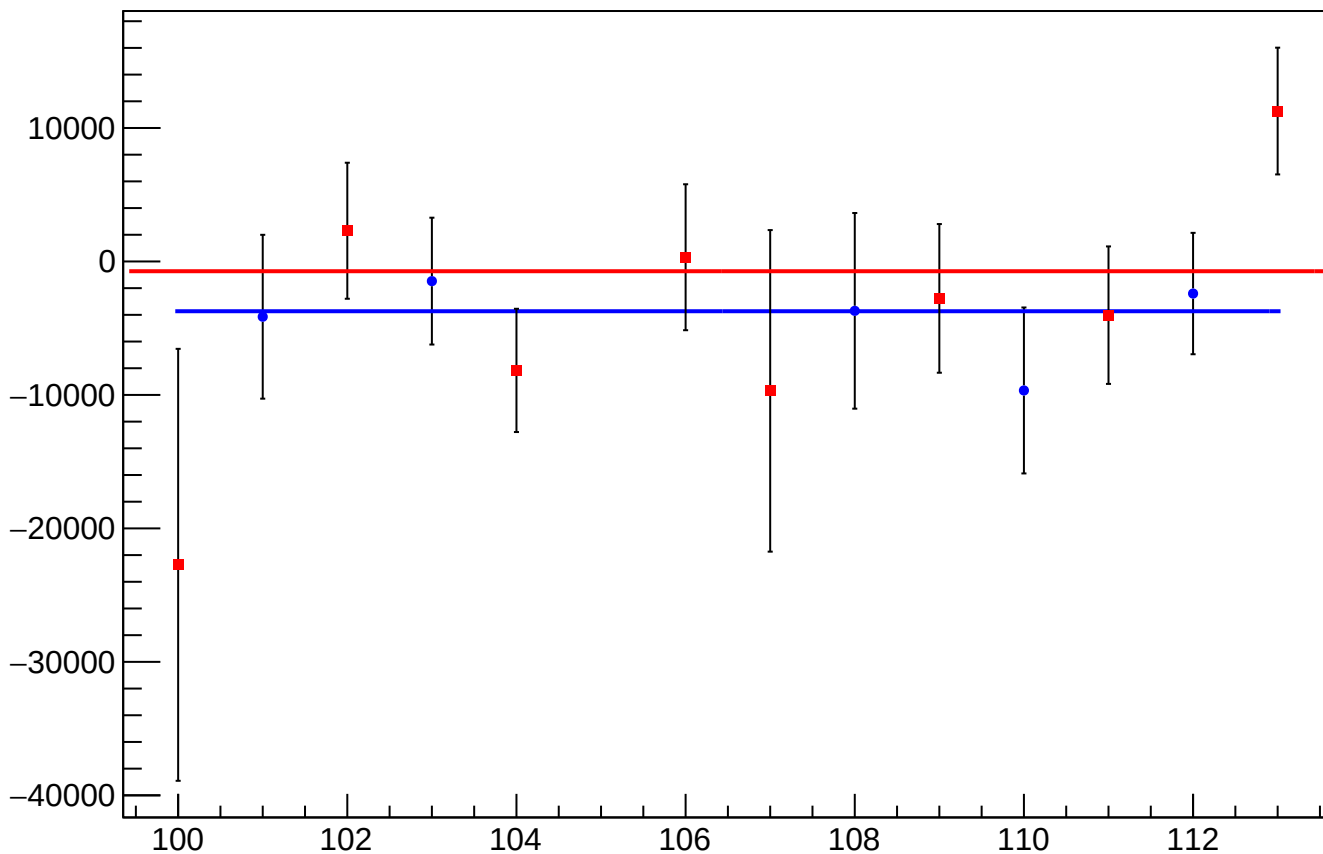
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1354.391 $\pm$ 0.404  $\chi^2$ /NDF: 99515.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -3728.910+/-2471.762  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -731.414+/-2025.062  $\chi^2/\text{NDF}$ : 12.3/7

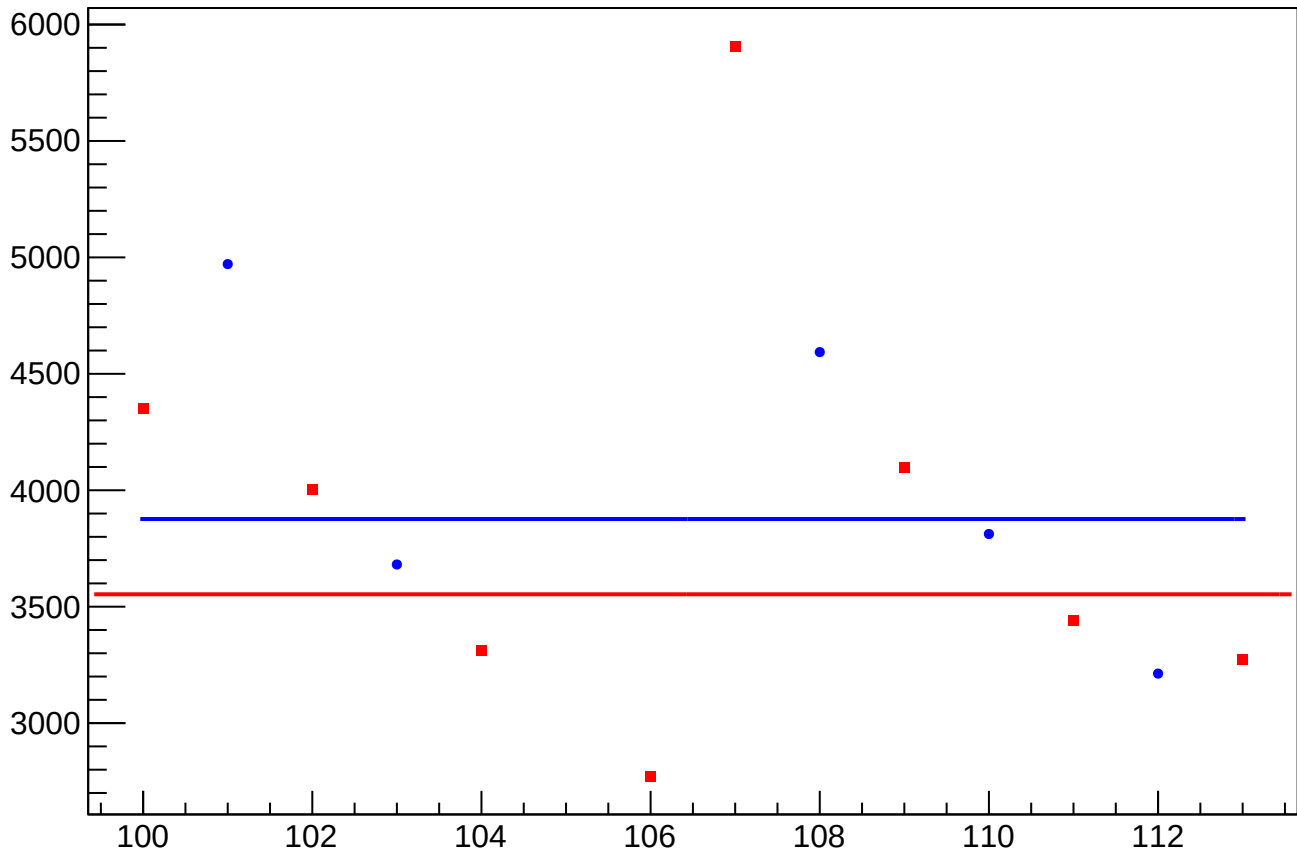
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1935.310+/-1566.469  $\chi^2/\text{NDF}$ : 14.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 3876.399+/-1.748  $\chi^2/\text{NDF}$ : 128941.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3553.210+/-1.432  $\chi^2/\text{NDF}$ : 170536.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

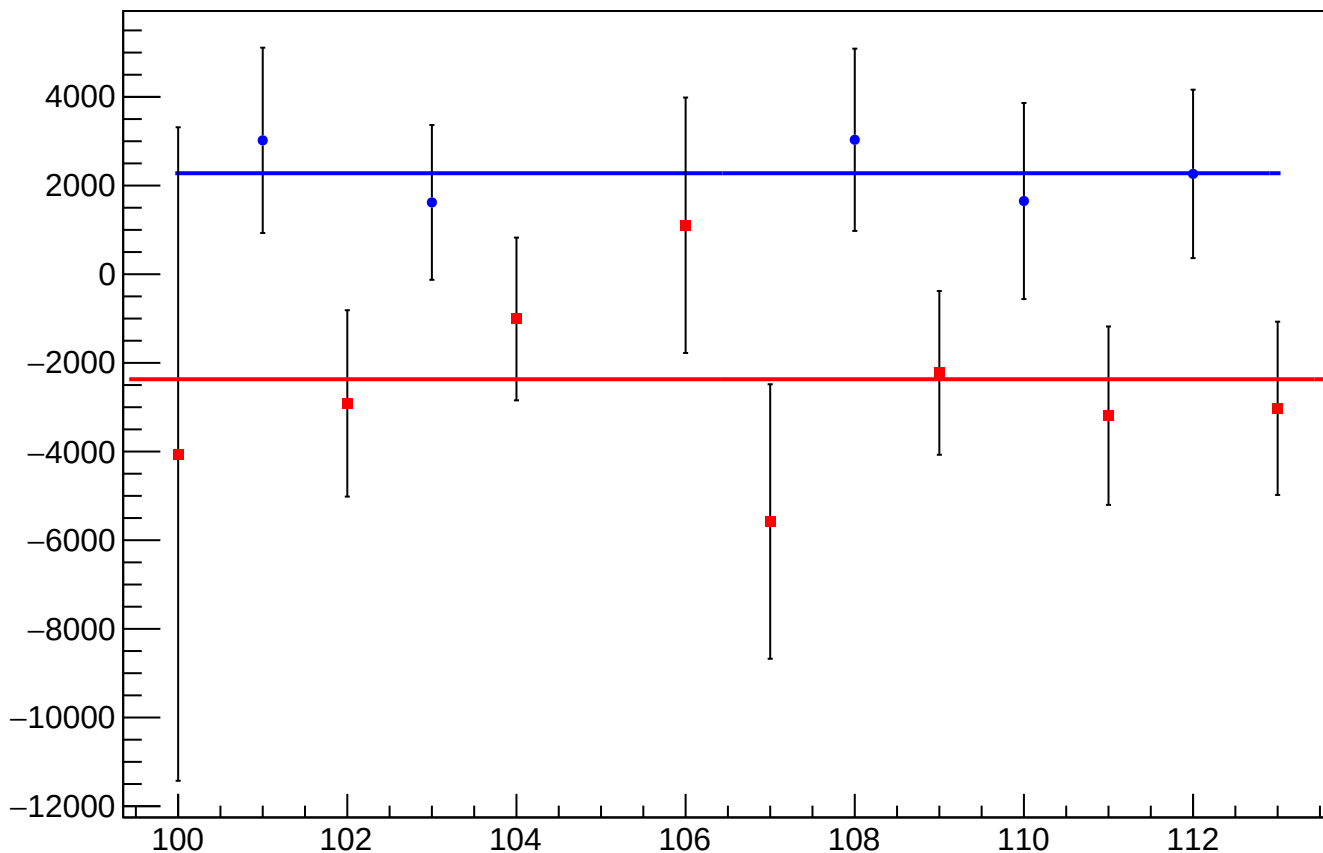
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3683.014+/-1.108  $\chi^2/\text{NDF}$ : 319937.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 2278.195+/-885.603  $\chi^2/\text{NDF}$ : 0.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2368.870+/-798.549  $\chi^2/\text{NDF}$ : 3.5/7

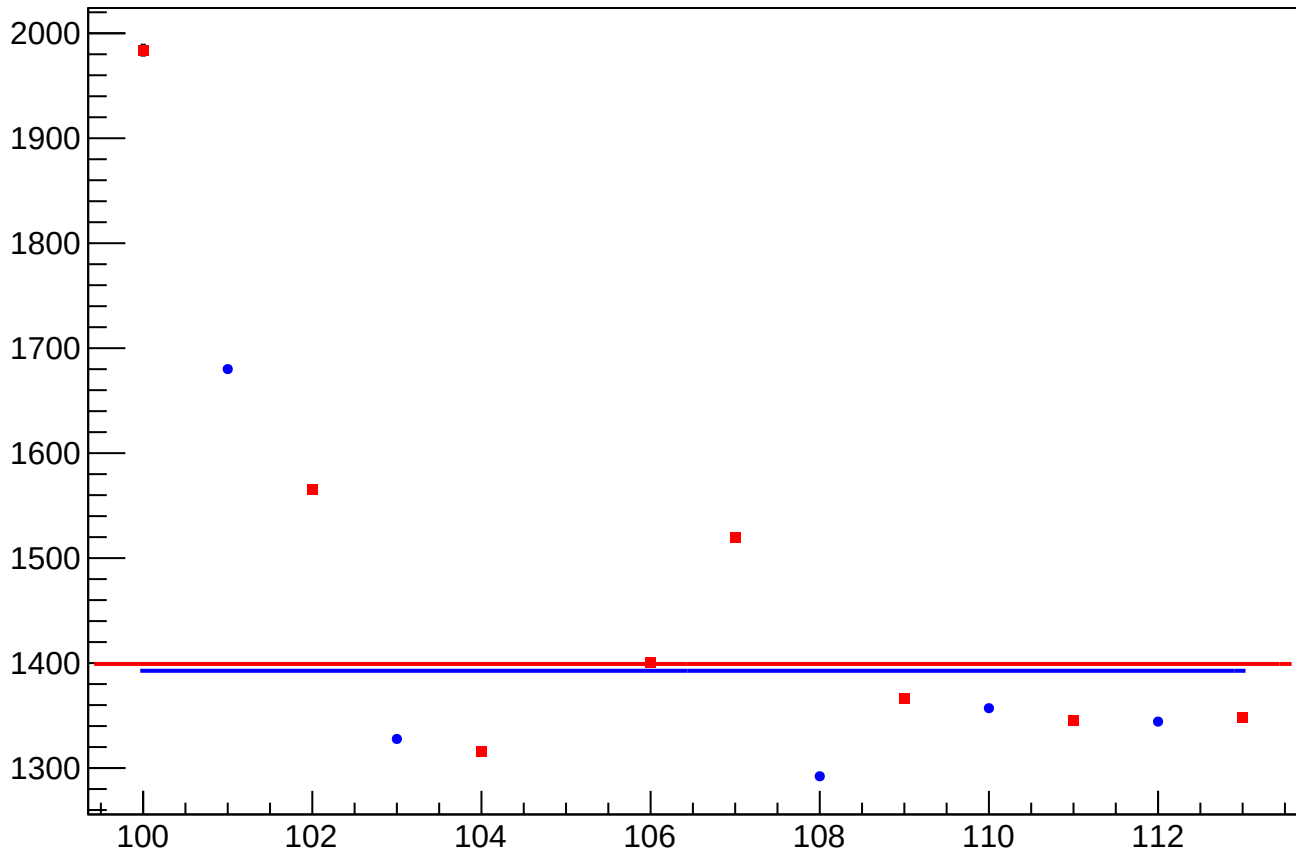
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -284.906+/-593.055  $\chi^2/\text{NDF}$ : 19.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1392.657 $\pm$ 0.626  $\chi^2$ /NDF: 47170.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1399.176 $\pm$ 0.561  $\chi^2$ /NDF: 35679.3/7

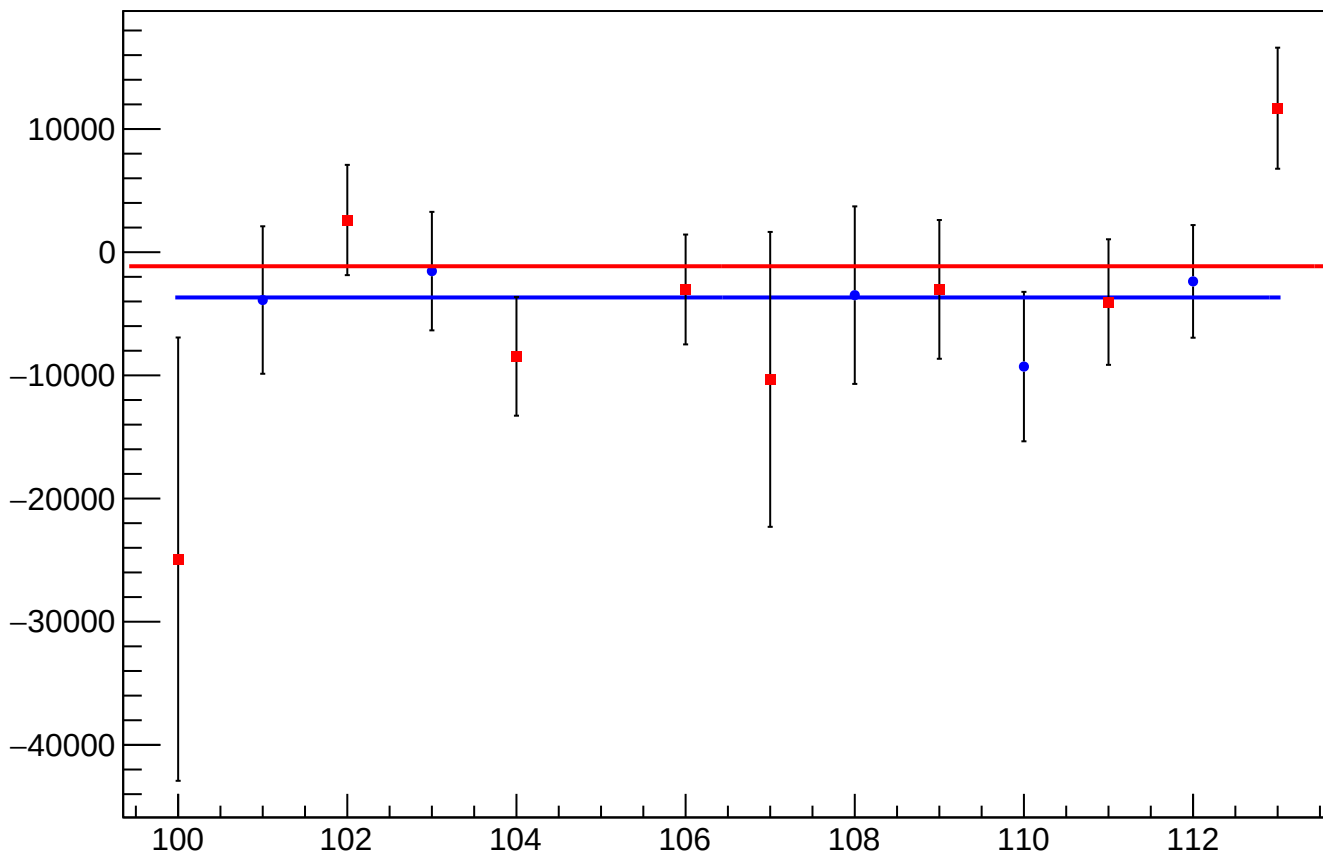
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1396.272 $\pm$ 0.418  $\chi^2$ /NDF: 82910.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_avg\_dit\_correction\_mean vs Slug



Right In: -3674.164+/-2459.176  $\chi^2/\text{NDF}$ : 1.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1140.092+/-1943.619  $\chi^2/\text{NDF}$ : 12.8/7

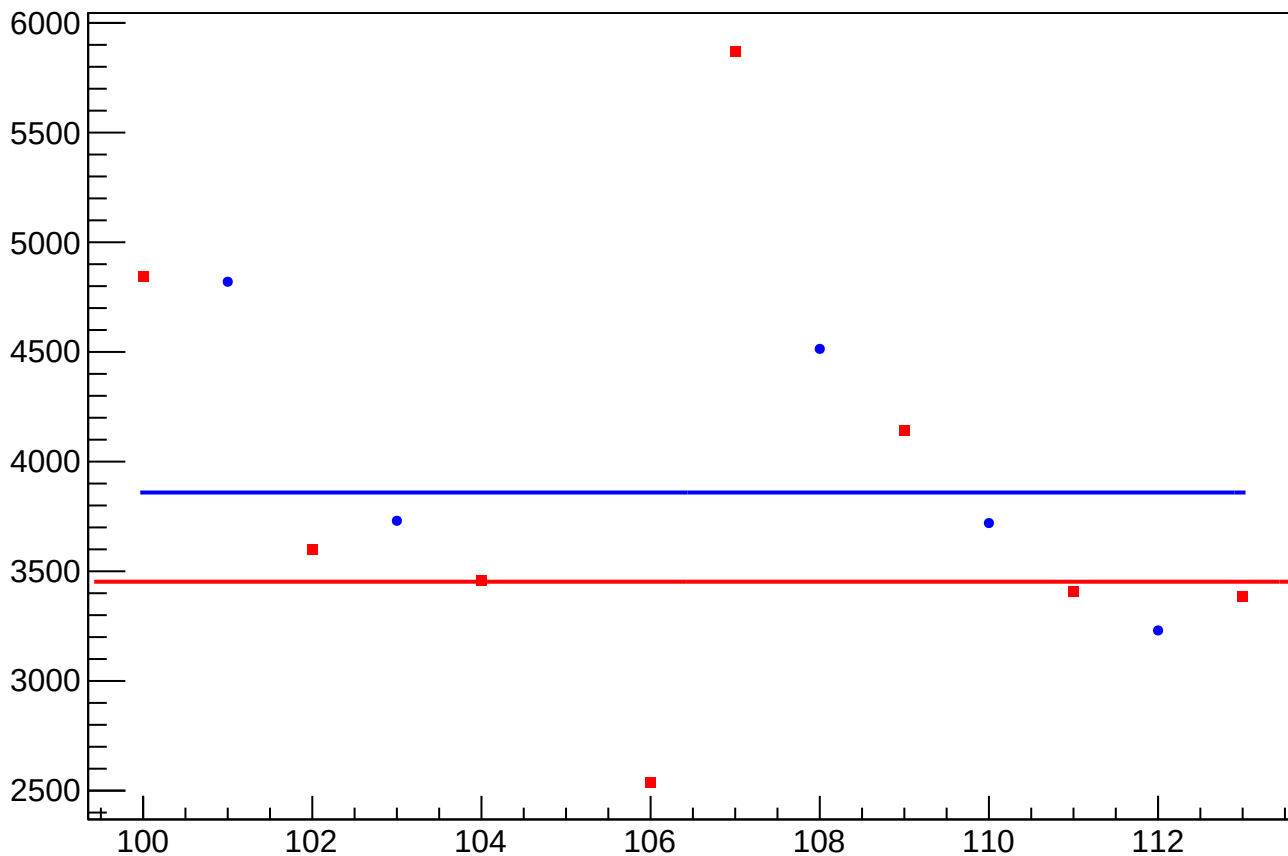
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2114.408+/-1524.860  $\chi^2/\text{NDF}$ : 14.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_avg\_dit\_correction\_rms vs Slug



Right In: 3859.162+/-1.739  $\chi^2/\text{NDF}$ : 108345.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3452.385+/-1.374  $\chi^2/\text{NDF}$ : 210169.6/7

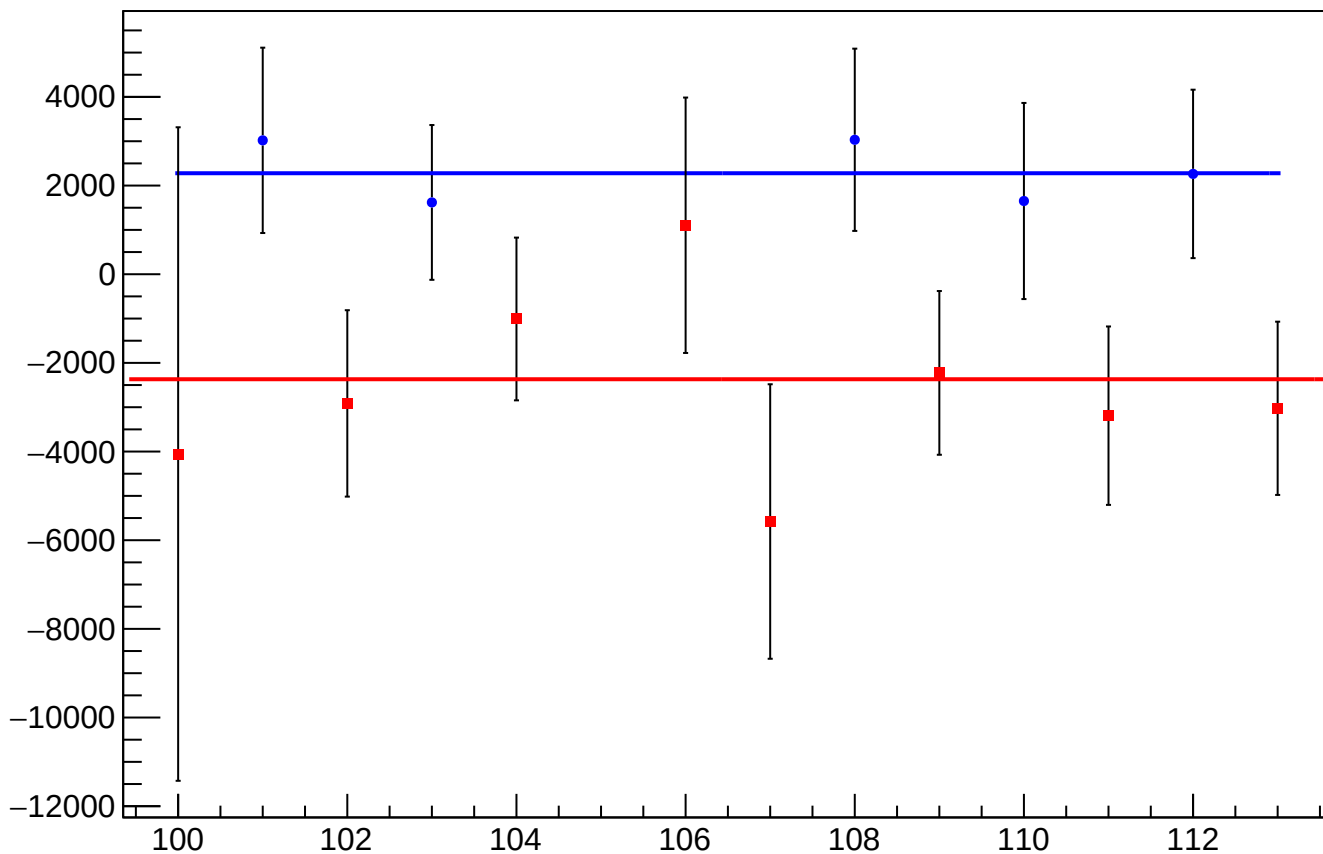
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3608.785+/-1.078  $\chi^2/\text{NDF}$ : 352197.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 2278.205+/-885.603  $\chi^2/\text{NDF}$ : 0.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2368.875+/-798.548  $\chi^2/\text{NDF}$ : 3.5/7

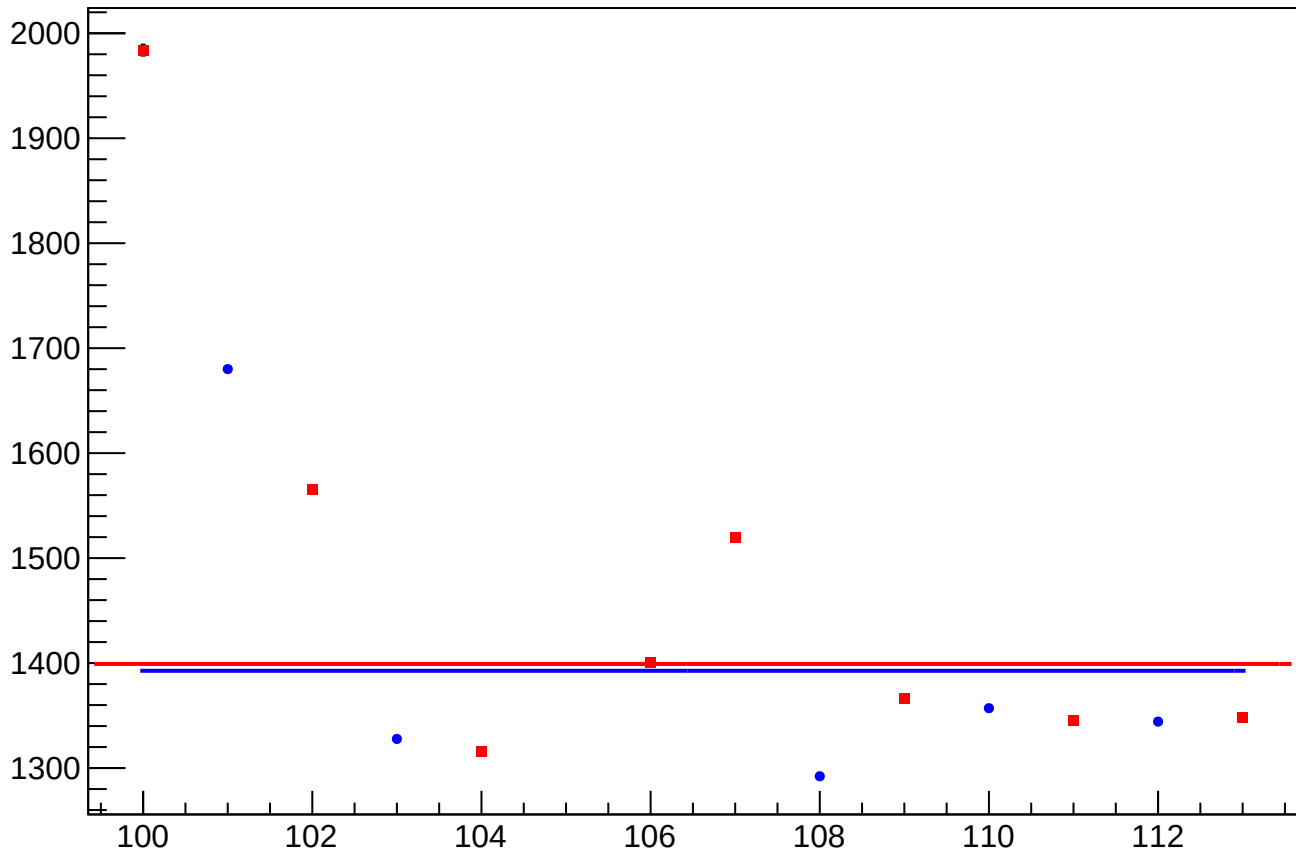
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -284.905+/-593.055  $\chi^2/\text{NDF}$ : 19.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1392.657+/-0.626  $\chi^2/\text{NDF}$ : 47170.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1399.176+/-0.561  $\chi^2/\text{NDF}$ : 35679.3/7

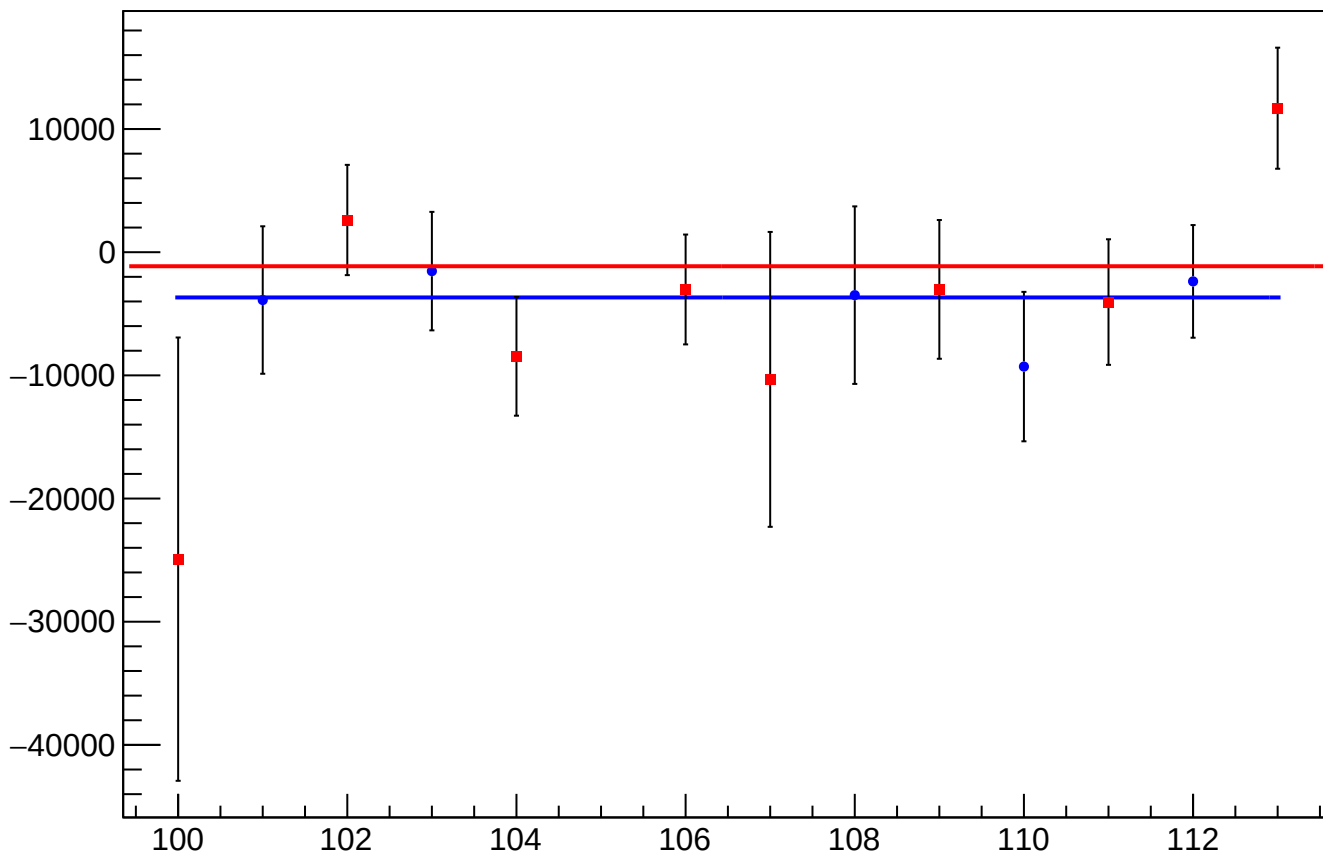
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1396.272+/-0.418  $\chi^2/\text{NDF}$ : 82910.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -3674.157 $\pm$ 2459.171  $\chi^2$ /NDF: 1.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1140.093 $\pm$ 1943.615  $\chi^2$ /NDF: 12.8/7

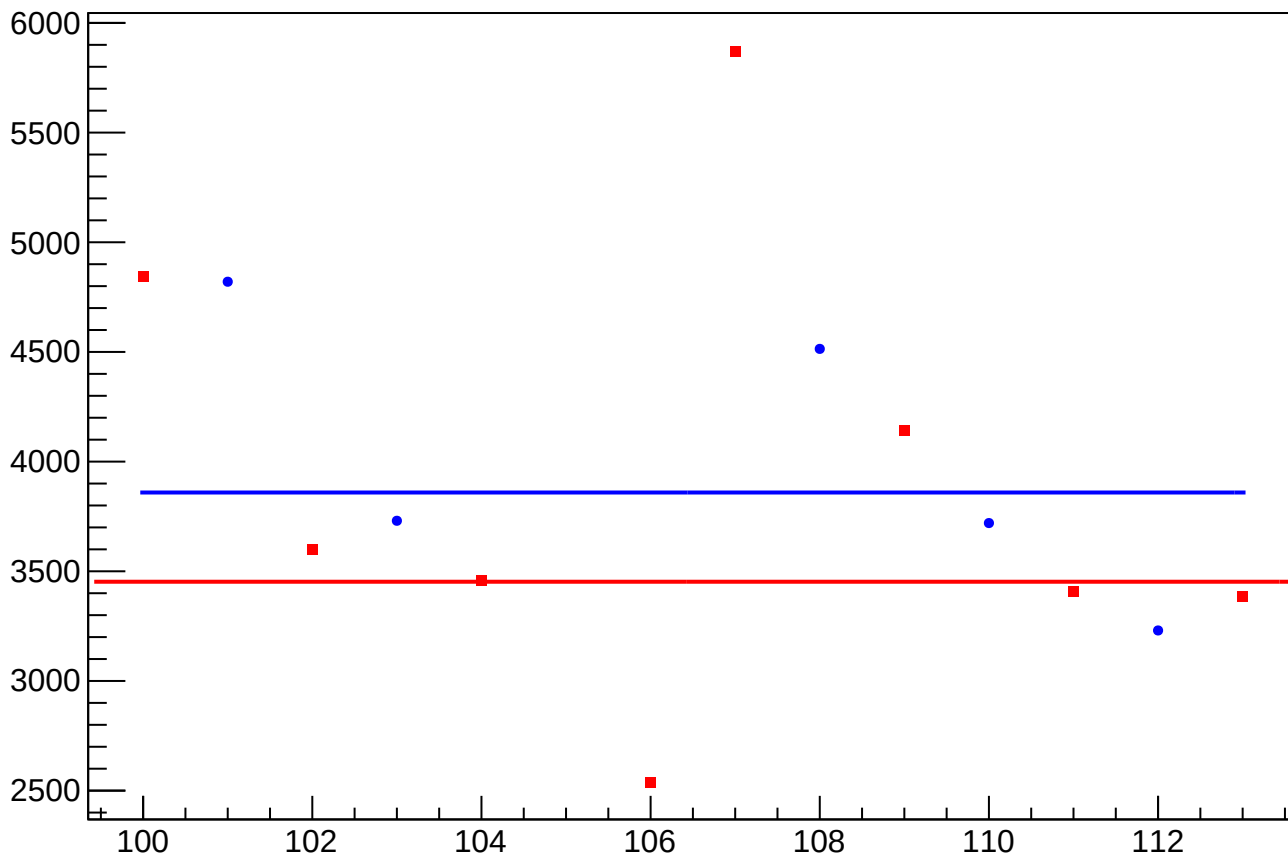
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2114.406 $\pm$ 1524.857  $\chi^2$ /NDF: 14.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 3859.154+/-1.739  $\chi^2/\text{NDF}$ : 108345.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3452.378+/-1.374  $\chi^2/\text{NDF}$ : 210169.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

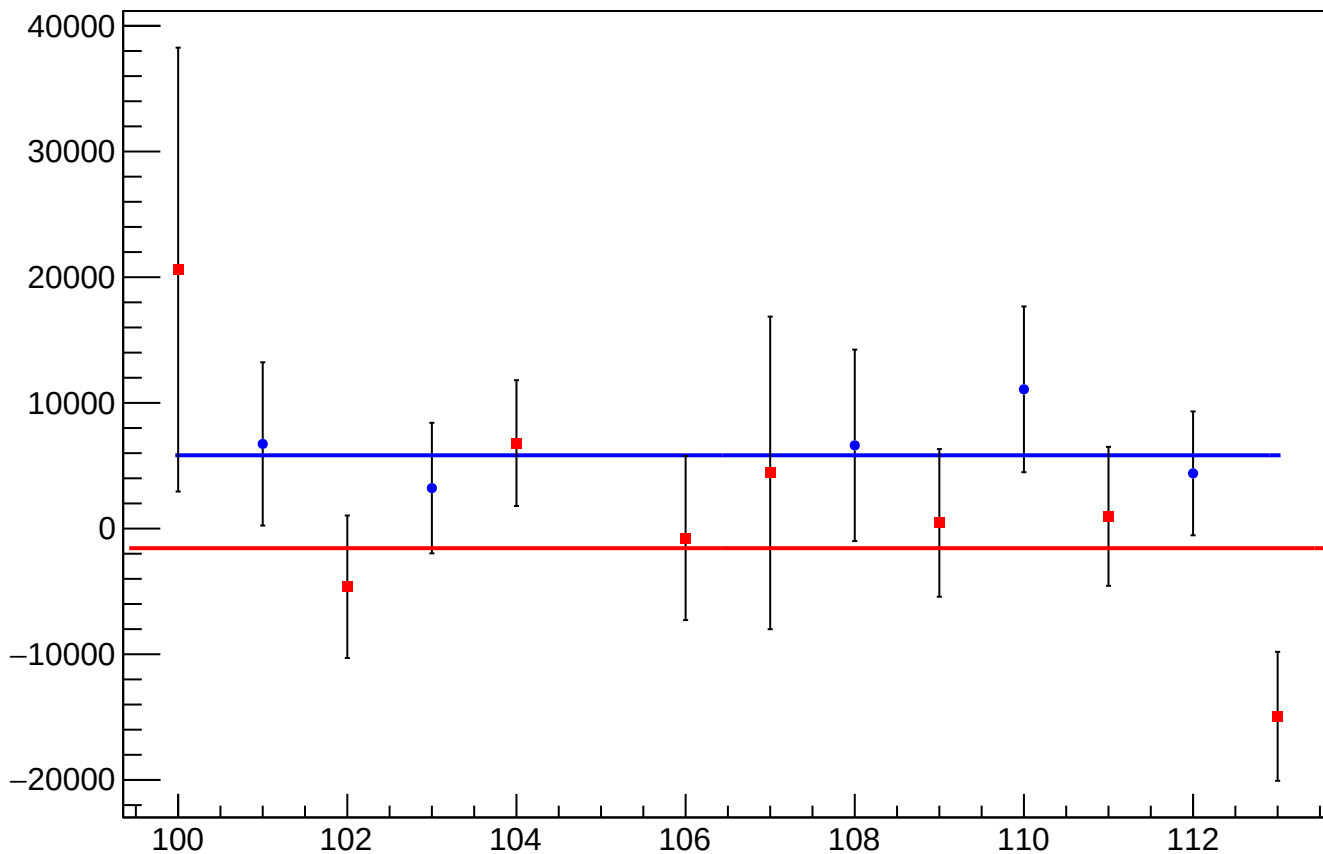
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3608.778+/-1.078  $\chi^2/\text{NDF}$ : 352197.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 5830.791+/-2652.138  $\chi^2/\text{NDF}$ : 1.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1558.794+/-2214.394  $\chi^2/\text{NDF}$ : 12.0/7

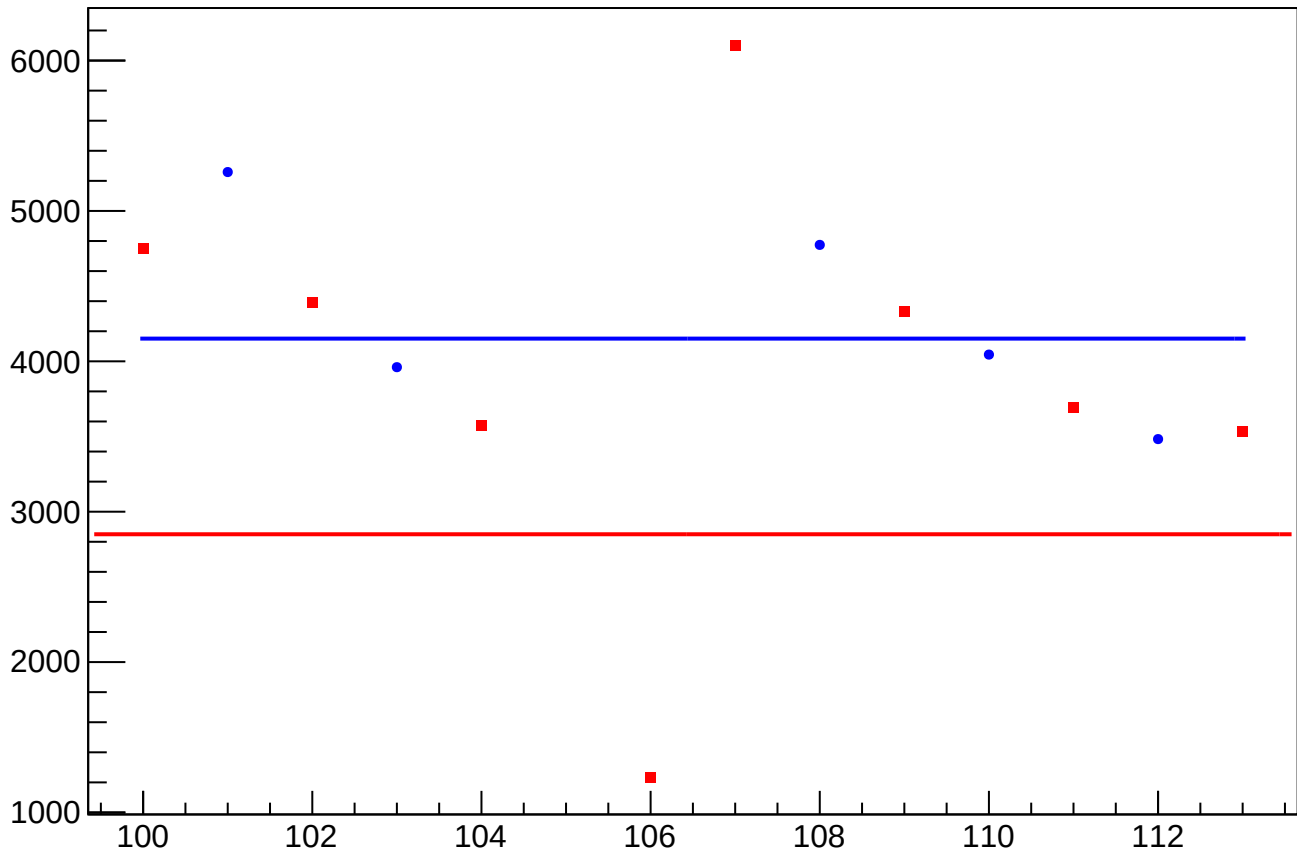
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1476.642+/-1699.795  $\chi^2/\text{NDF}$ : 17.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 4151.051+/-1.875  $\chi^2/\text{NDF}$ : 111527.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2850.017+/-1.282  $\chi^2/\text{NDF}$ : 1206360.4/7

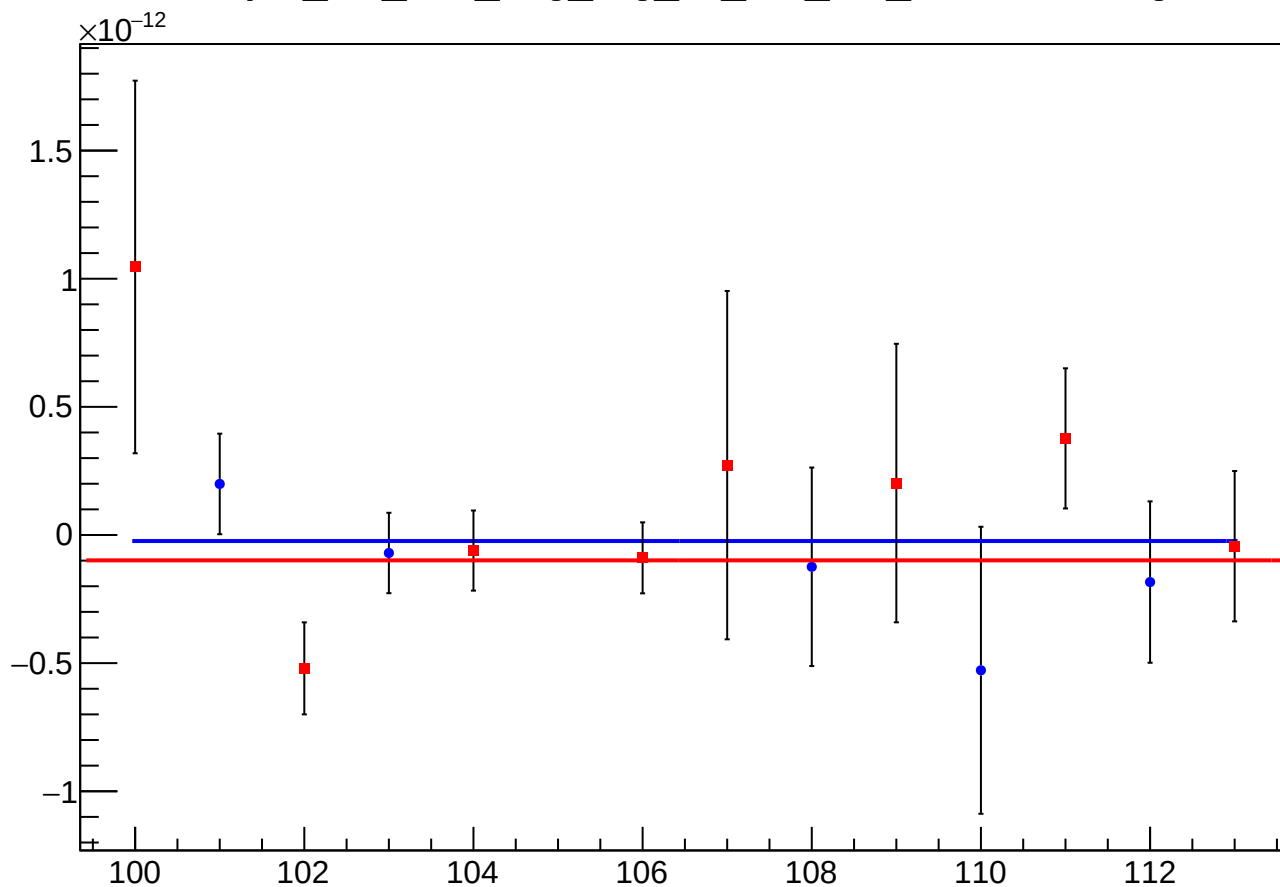
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3264.234+/-1.058  $\chi^2/\text{NDF}$ : 1645958.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 11.7/7

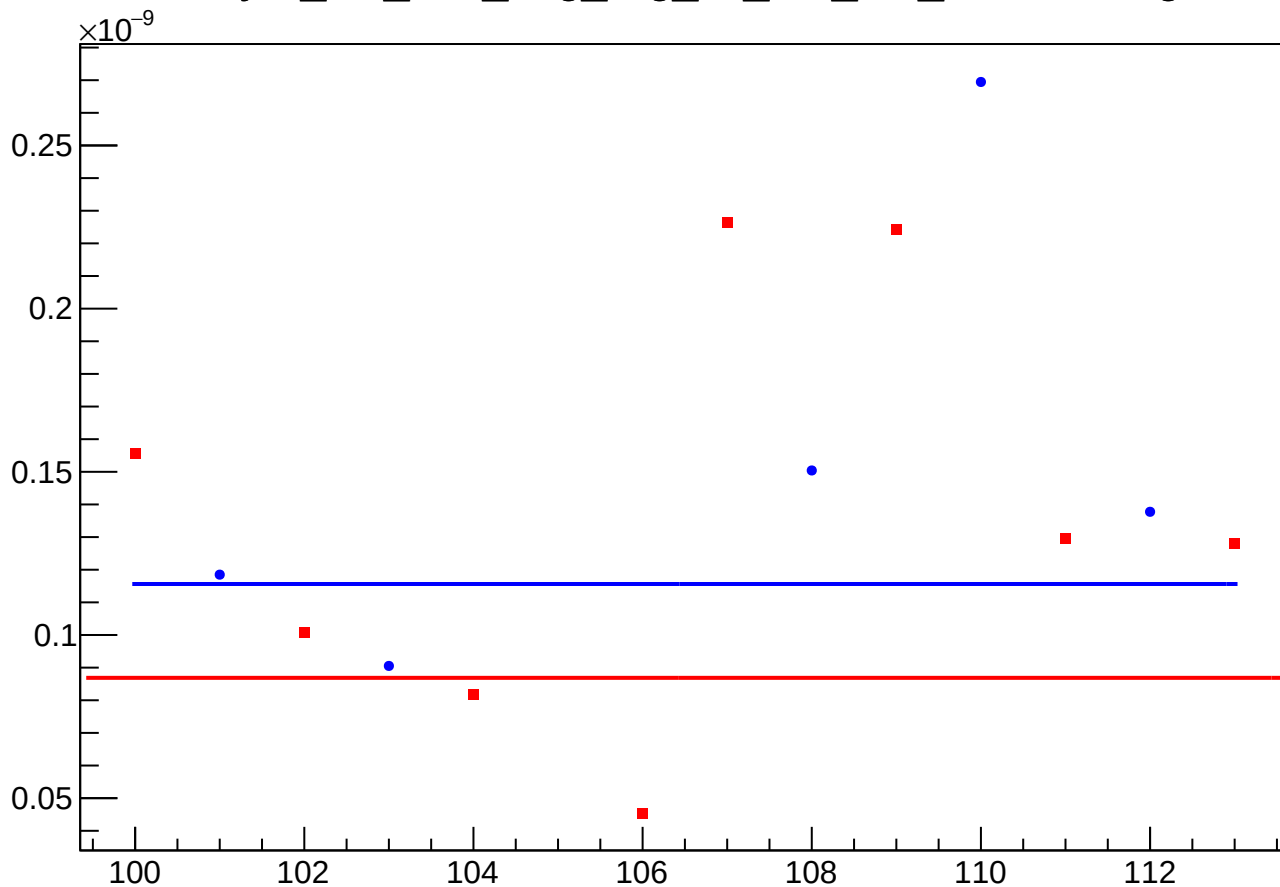
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 14.6/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 228575.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 512377.6/7

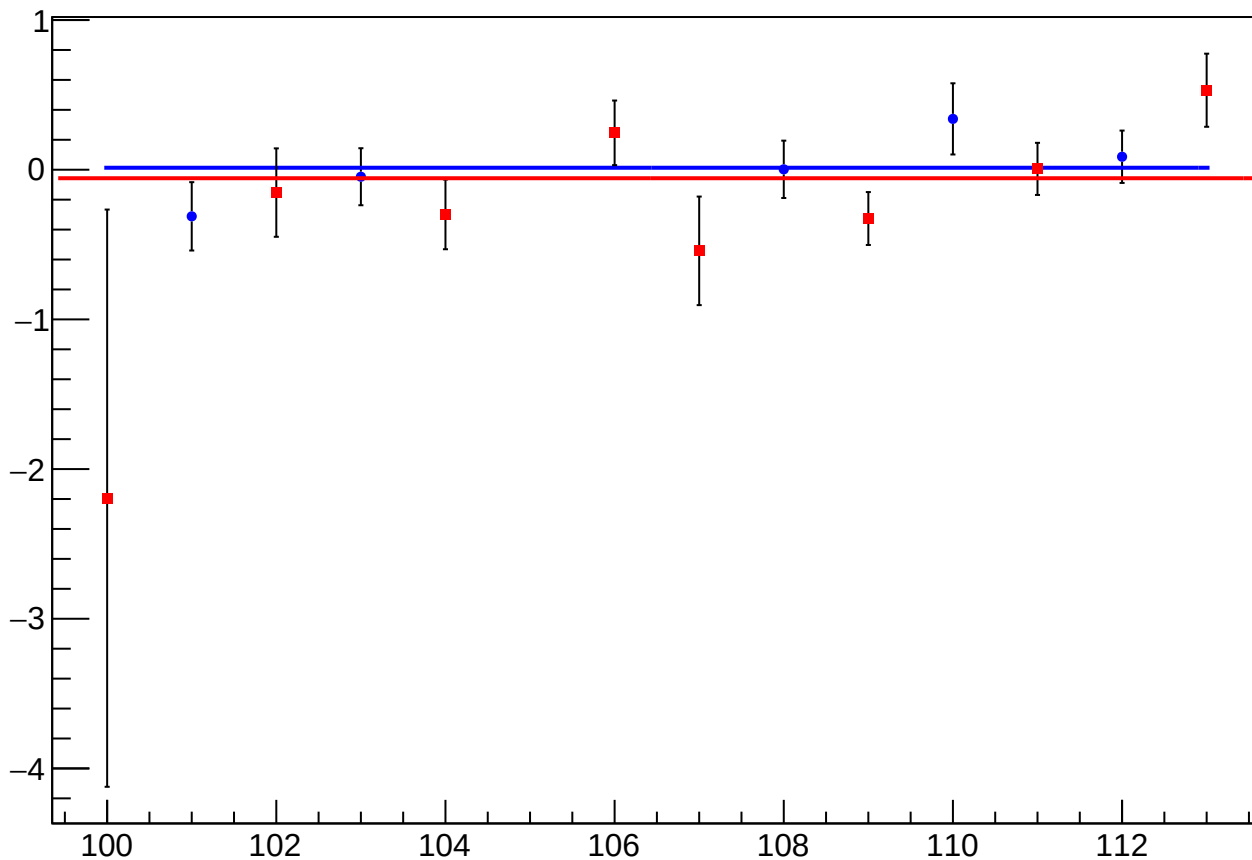
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 833116.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.090  $\chi^2$ /NDF: 4.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.057 $\pm$ 0.084  $\chi^2$ /NDF: 14.4/7

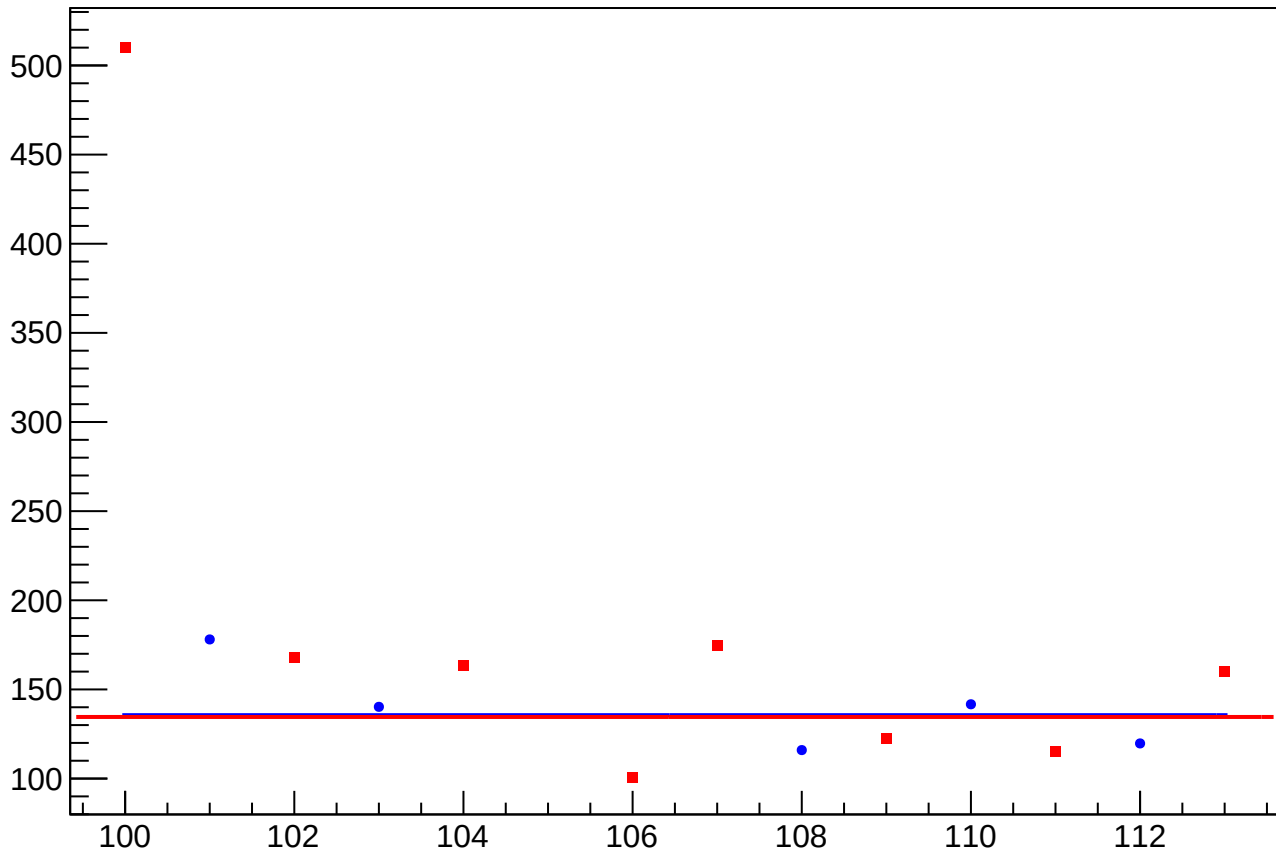
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.024 $\pm$ 0.061  $\chi^2$ /NDF: 18.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 135.560 $\pm$ 0.063  $\chi^2$ /NDF: 109084.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 134.555 $\pm$ 0.060  $\chi^2$ /NDF: 261477.0/7

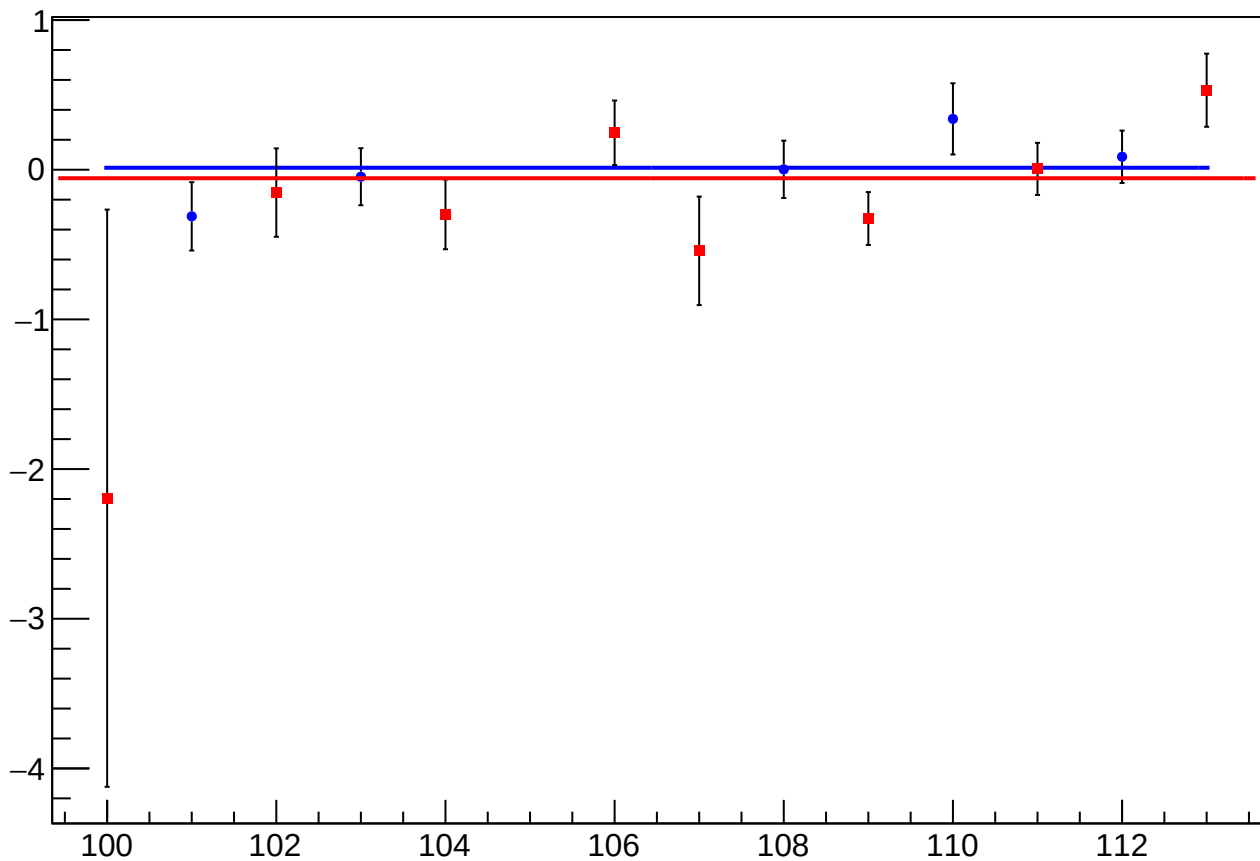
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 135.026 $\pm$ 0.043  $\chi^2$ /NDF: 370695.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.090  $\chi^2$ /NDF: 4.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.057 $\pm$ 0.084  $\chi^2$ /NDF: 14.4/7

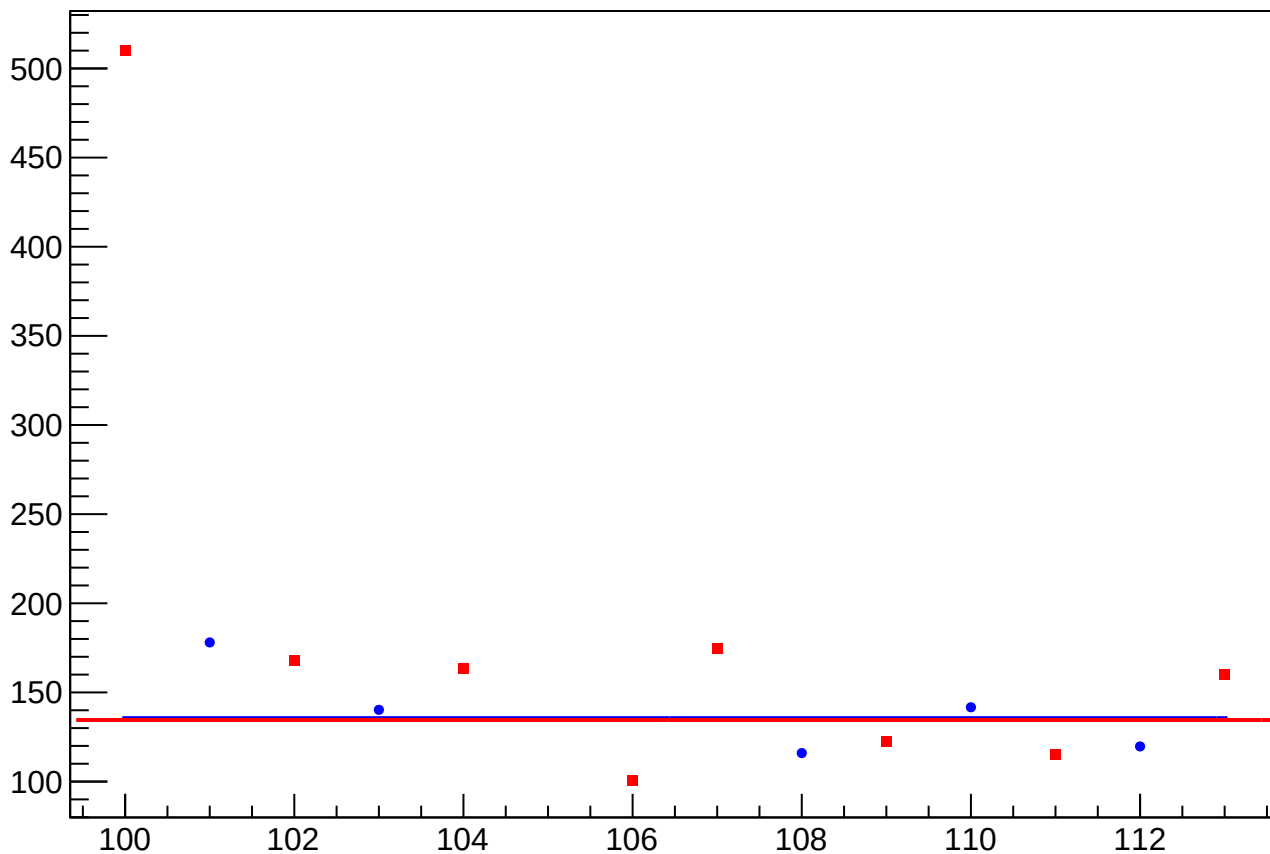
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.024 $\pm$ 0.061  $\chi^2$ /NDF: 18.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 135.560 $\pm$ 0.063  $\chi^2$ /NDF: 109084.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 134.555 $\pm$ 0.060  $\chi^2$ /NDF: 261477.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

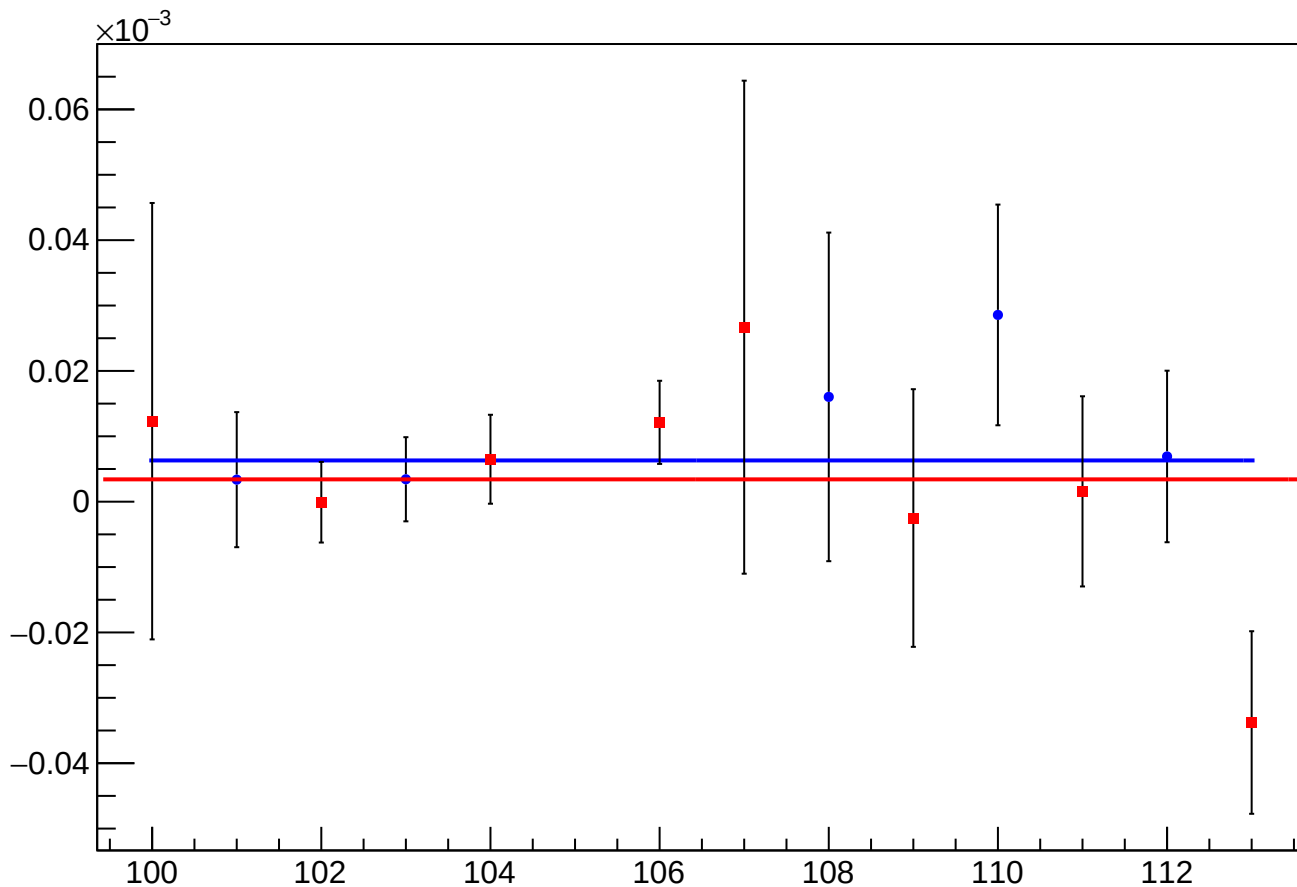
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 135.026 $\pm$ 0.043  $\chi^2$ /NDF: 370695.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.1/7

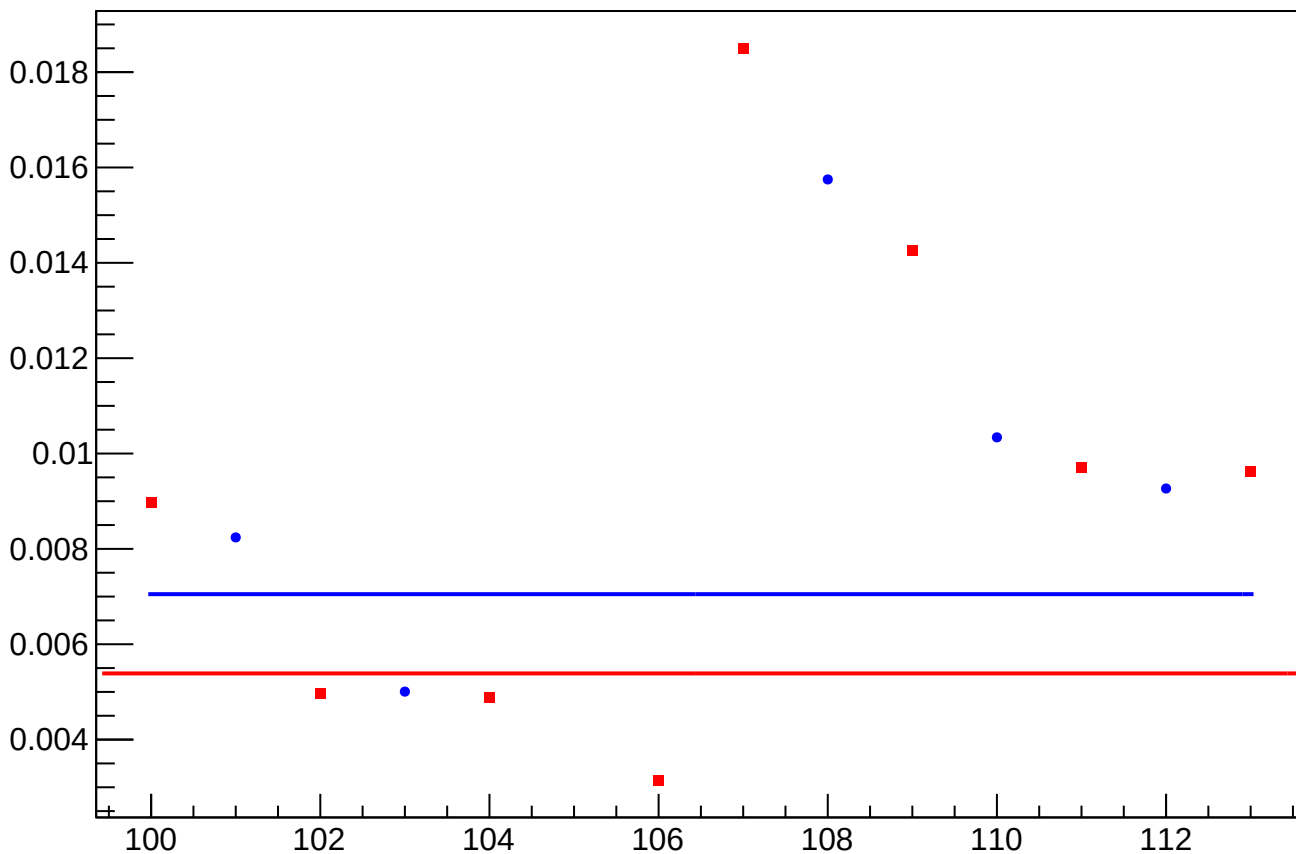
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 600948.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1300812.6/7

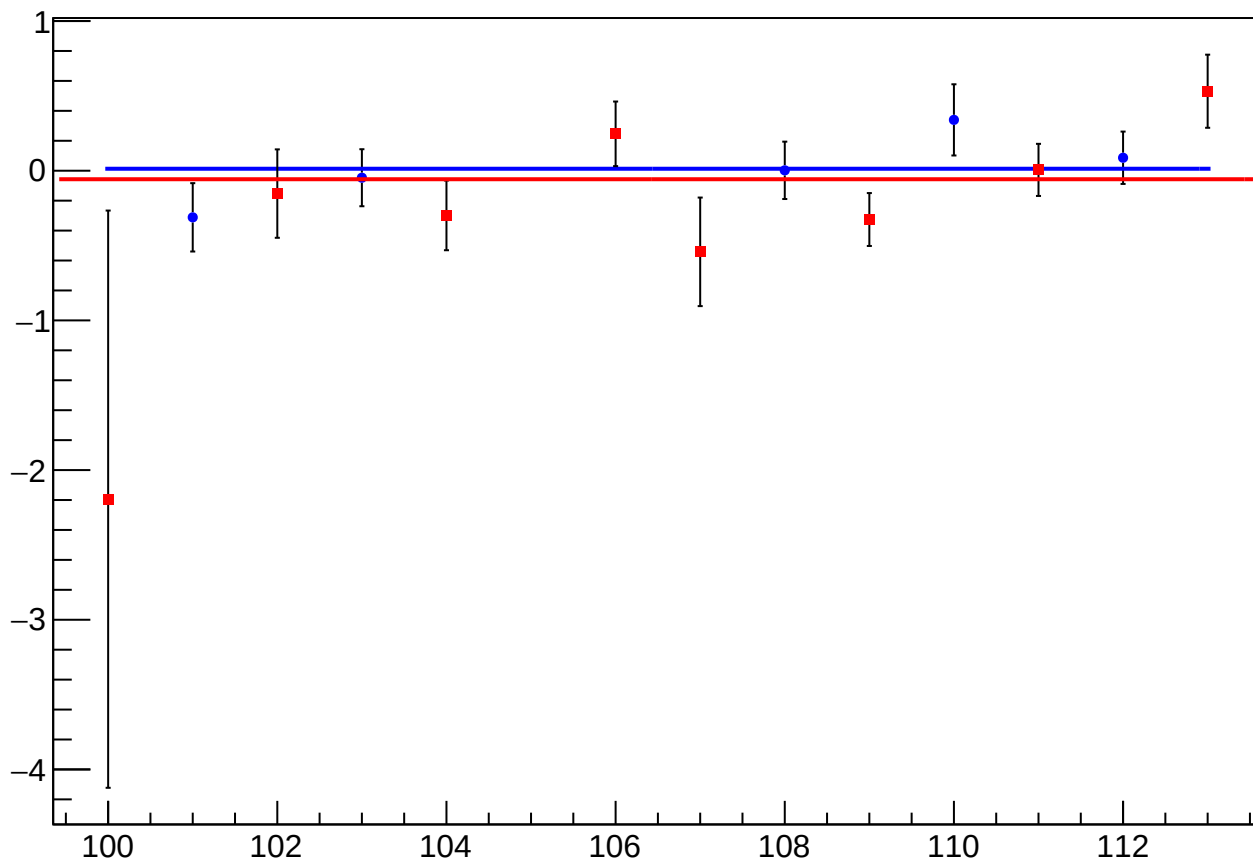
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2064086.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.090  $\chi^2$ /NDF: 4.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.057 $\pm$ 0.084  $\chi^2$ /NDF: 14.4/7

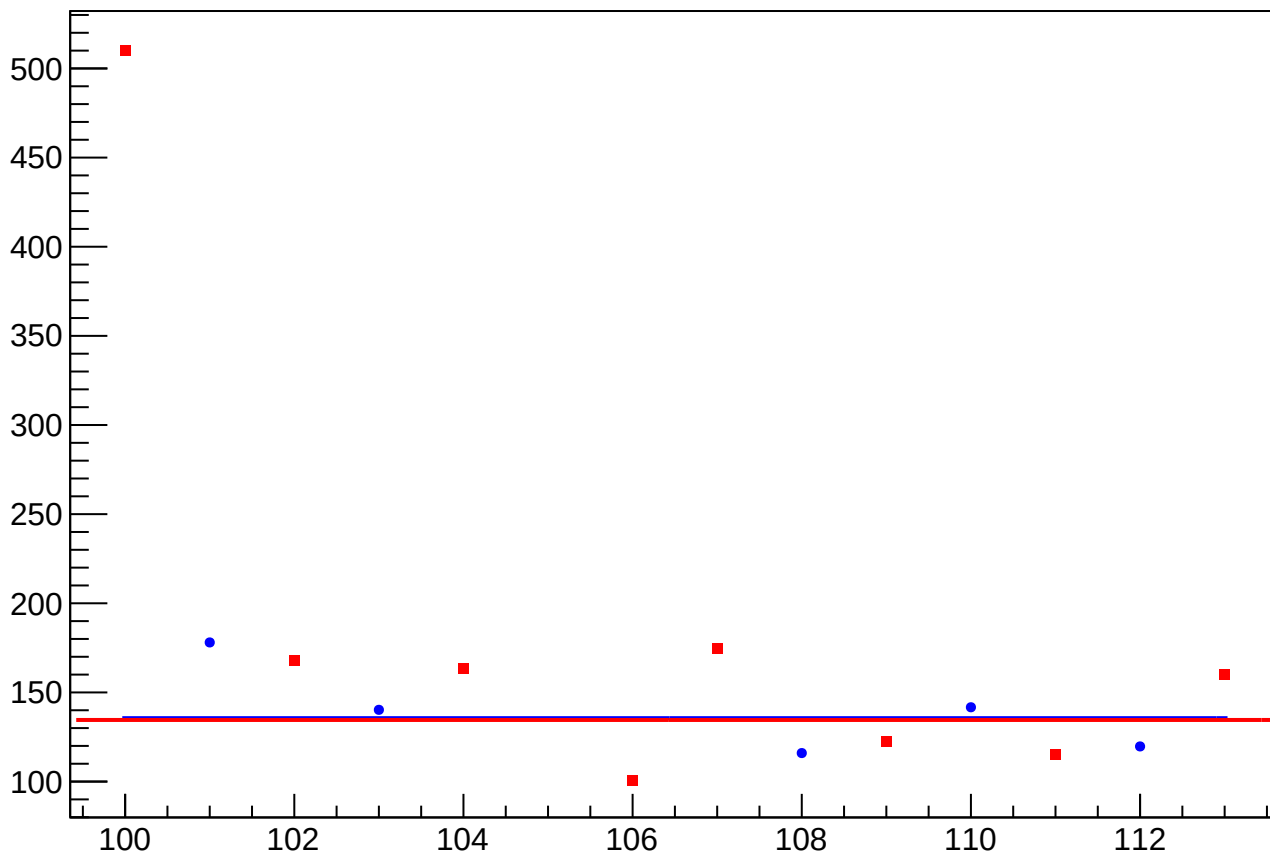
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.024 $\pm$ 0.061  $\chi^2$ /NDF: 18.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 135.564 $\pm$ 0.063  $\chi^2$ /NDF: 109050.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 134.556 $\pm$ 0.060  $\chi^2$ /NDF: 261462.7/7

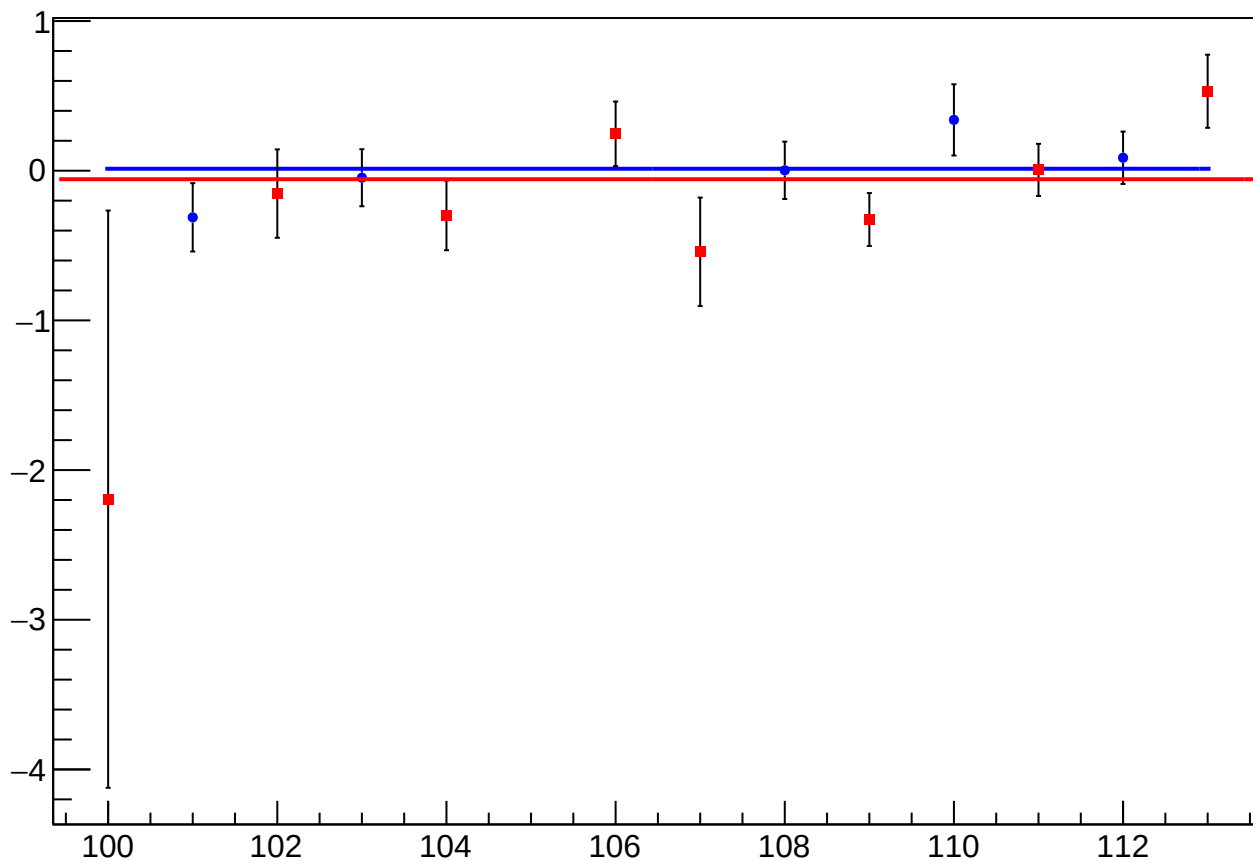
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 135.028 $\pm$ 0.043  $\chi^2$ /NDF: 370647.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.013+/-0.090  $\chi^2/\text{NDF}$ : 4.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.057+/-0.084  $\chi^2/\text{NDF}$ : 14.4/7

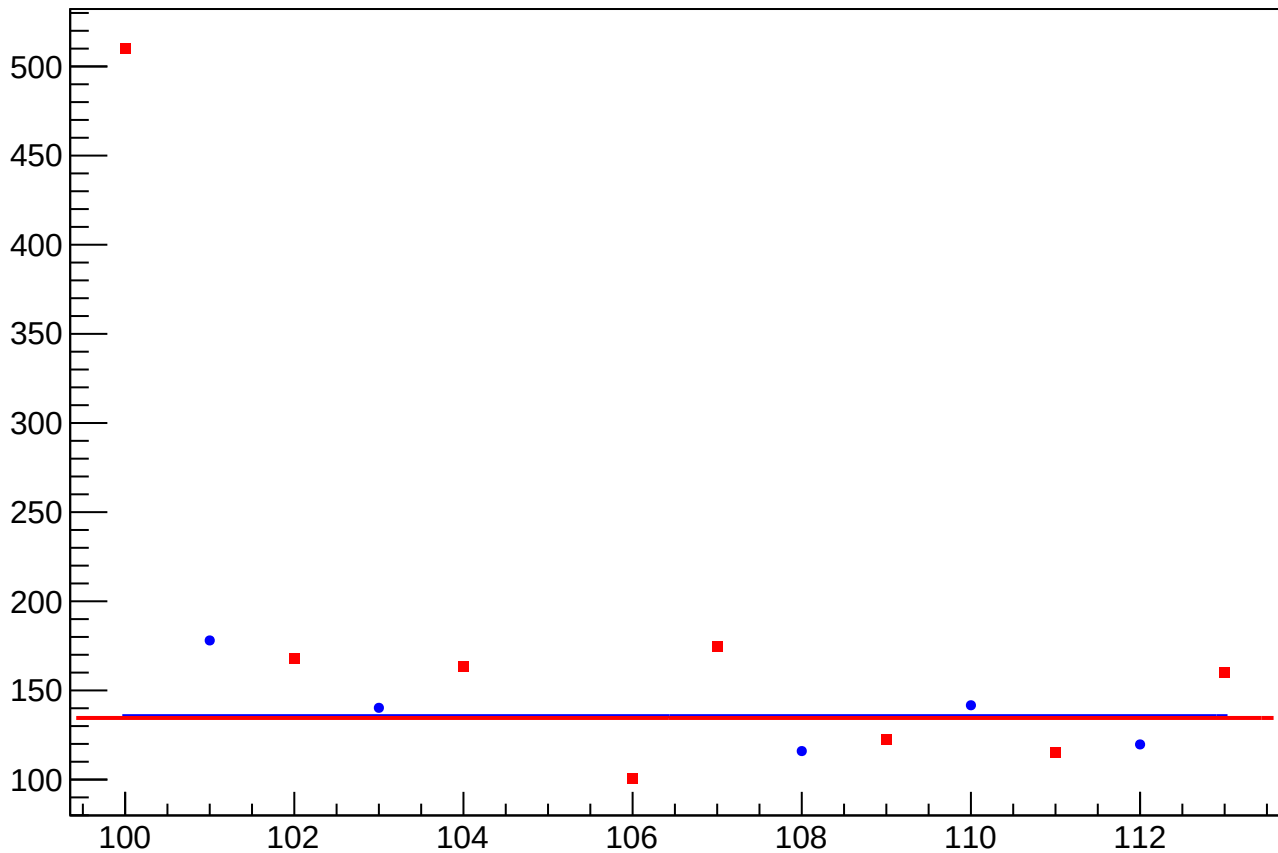
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.024+/-0.061  $\chi^2/\text{NDF}$ : 18.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 135.564 $\pm$ 0.063  $\chi^2$ /NDF: 109050.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 134.556 $\pm$ 0.060  $\chi^2$ /NDF: 261462.7/7

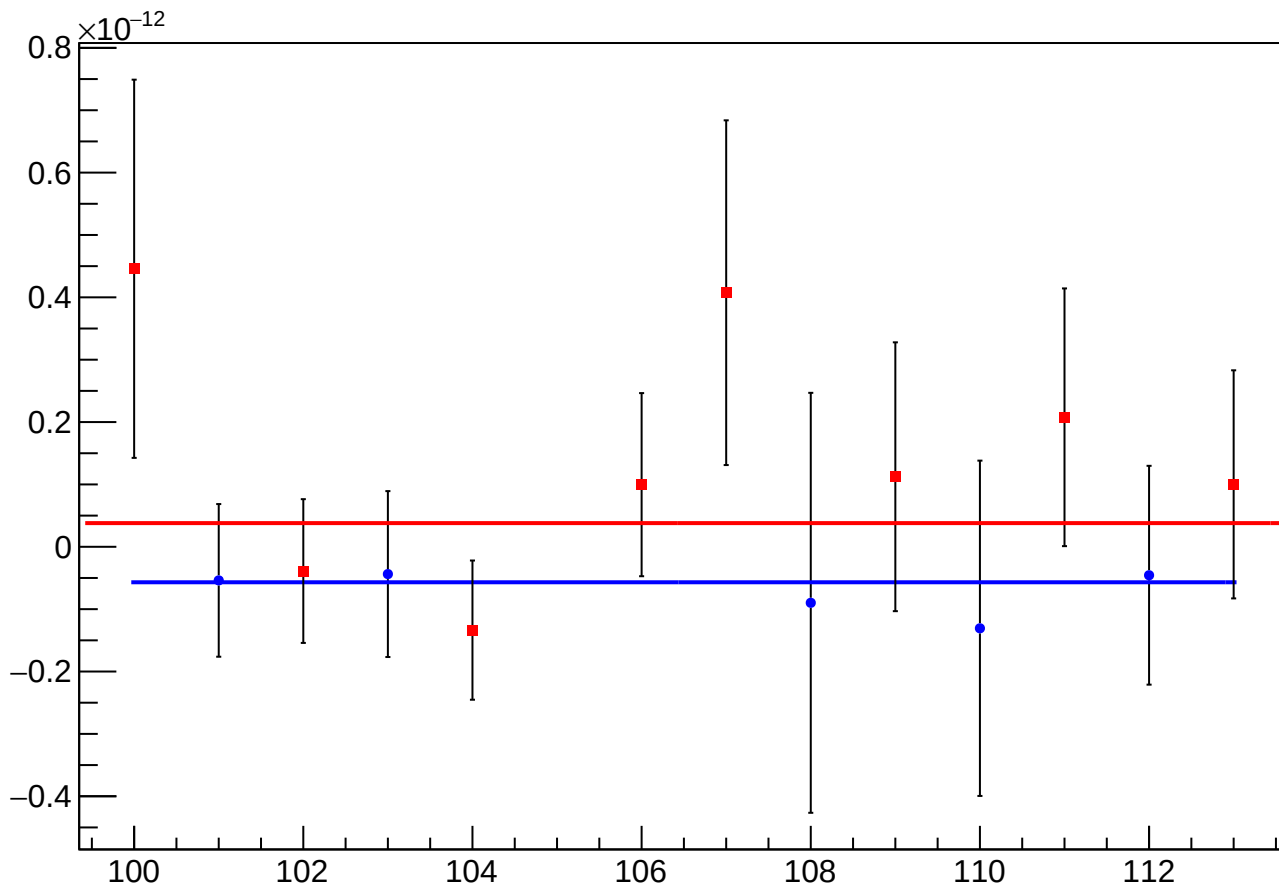
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 135.028 $\pm$ 0.043  $\chi^2$ /NDF: 370647.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.5/7

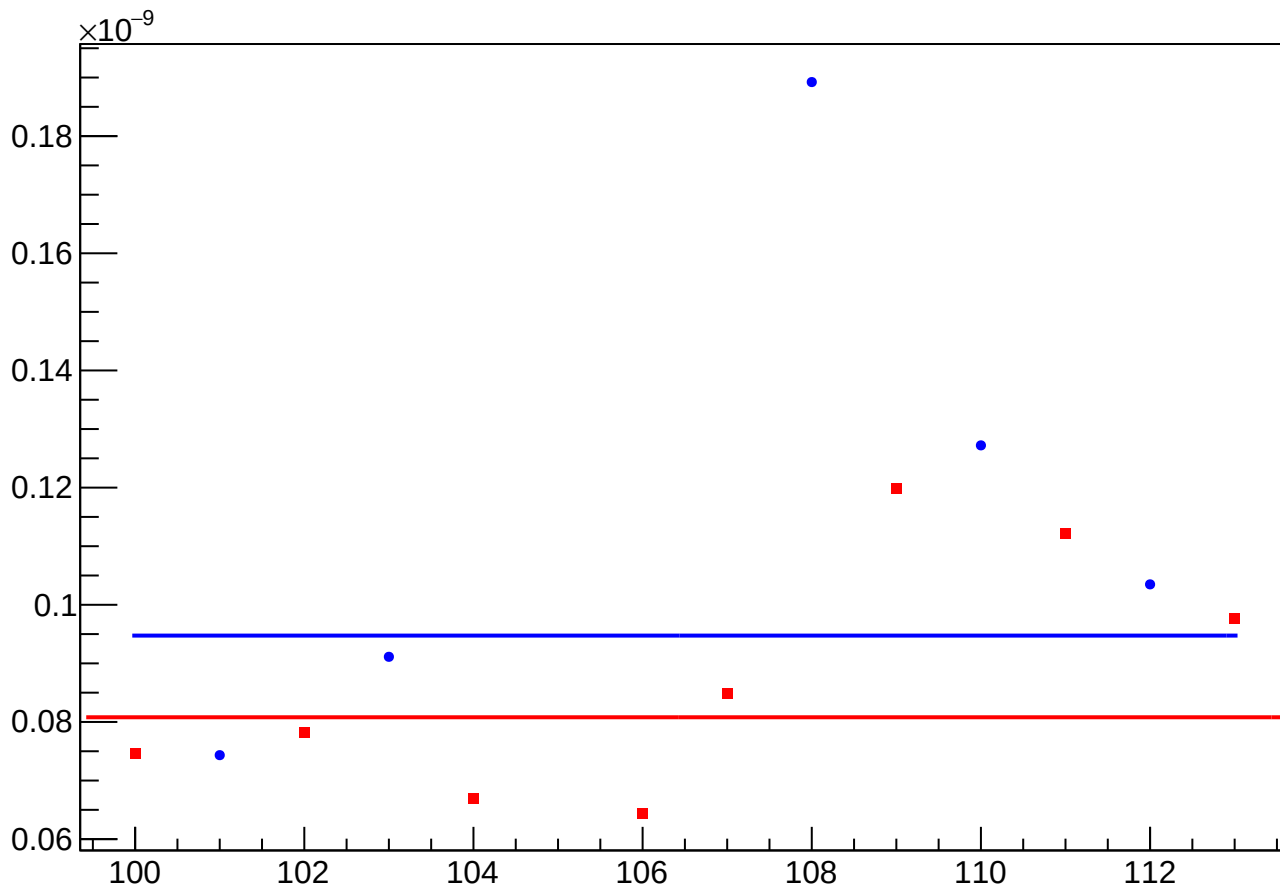
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 248708.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 186810.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

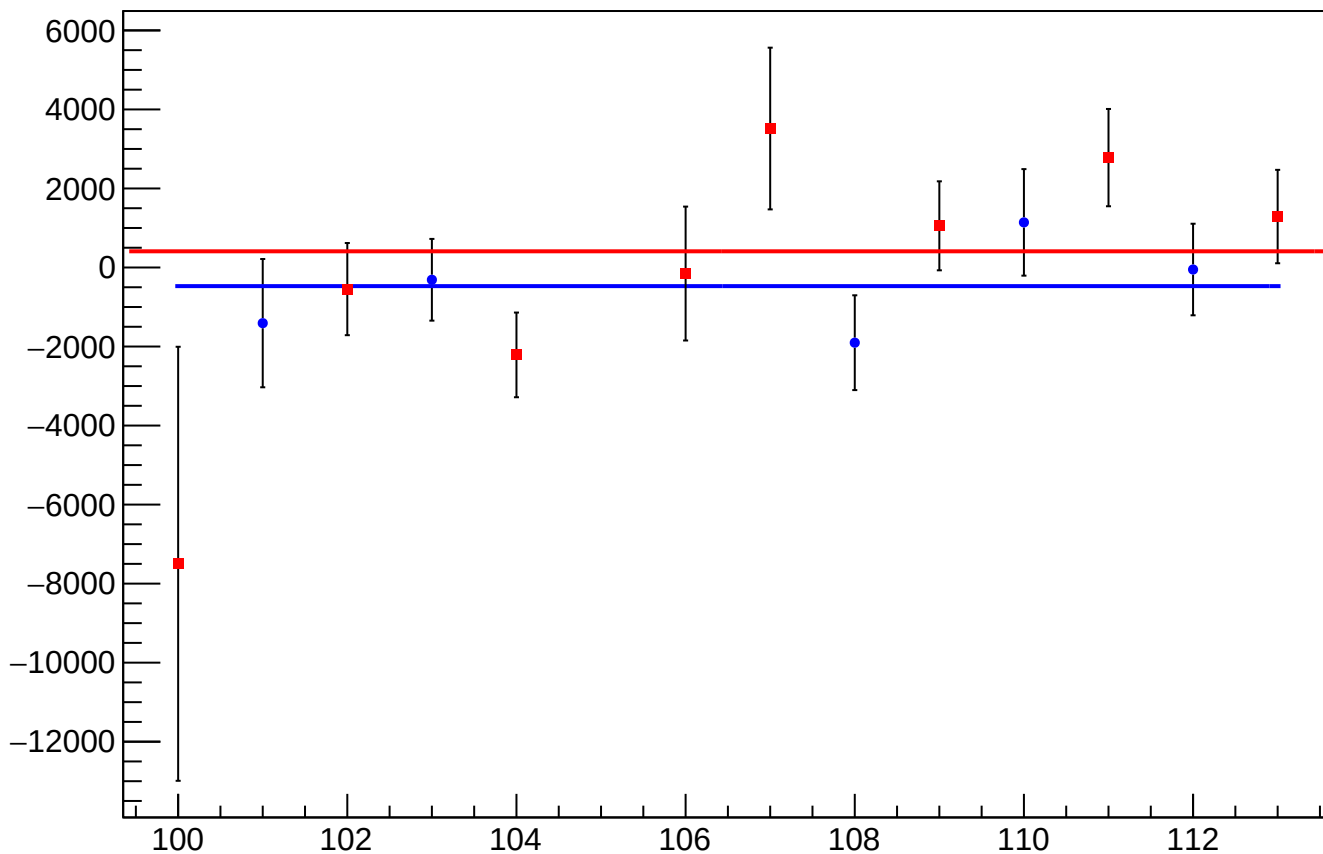
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 479055.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -471.315+/-550.059  $\chi^2/\text{NDF}$ : 3.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 409.713+/-477.242  $\chi^2/\text{NDF}$ : 15.7/7

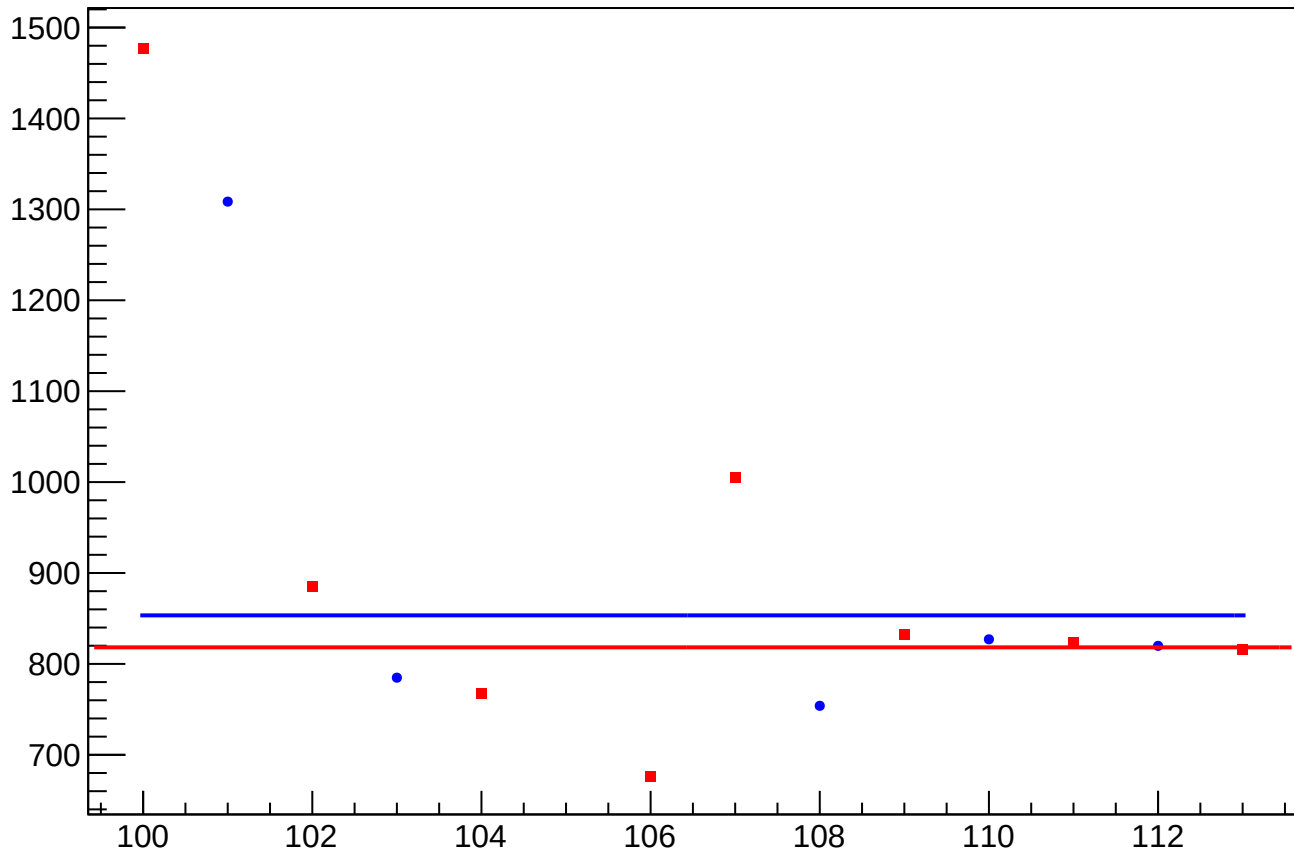
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.337+/-360.477  $\chi^2/\text{NDF}$ : 20.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 853.387 $\pm$ 0.389  $\chi^2$ /NDF: 182193.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 818.213 $\pm$ 0.328  $\chi^2$ /NDF: 80847.9/7

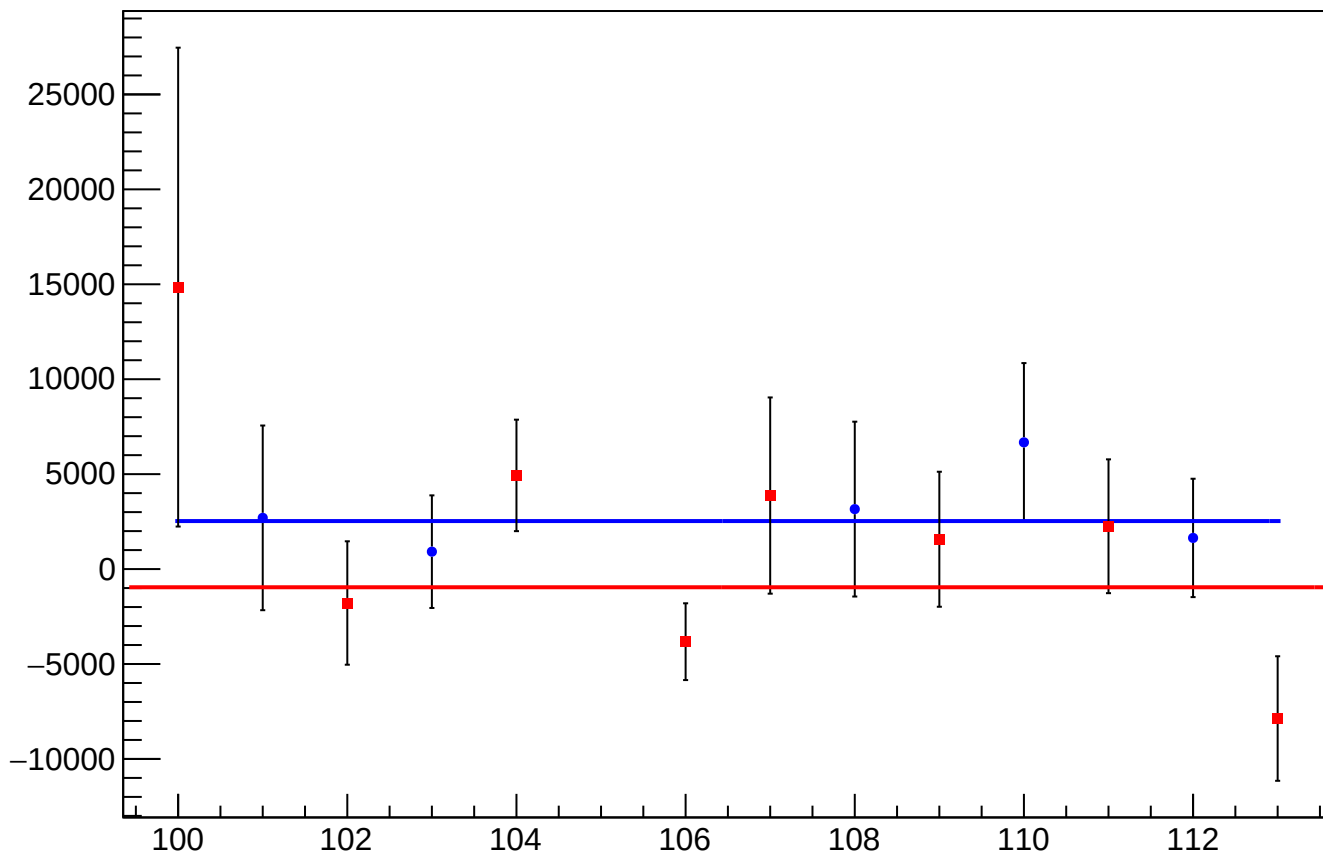
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 832.857 $\pm$ 0.251  $\chi^2$ /NDF: 267814.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_reg\_correction\_mean vs Slug



Right In: 2528.852+/-1658.723  $\chi^2/\text{NDF}$ : 1.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -957.796+/-1153.458  $\chi^2/\text{NDF}$ : 14.3/7

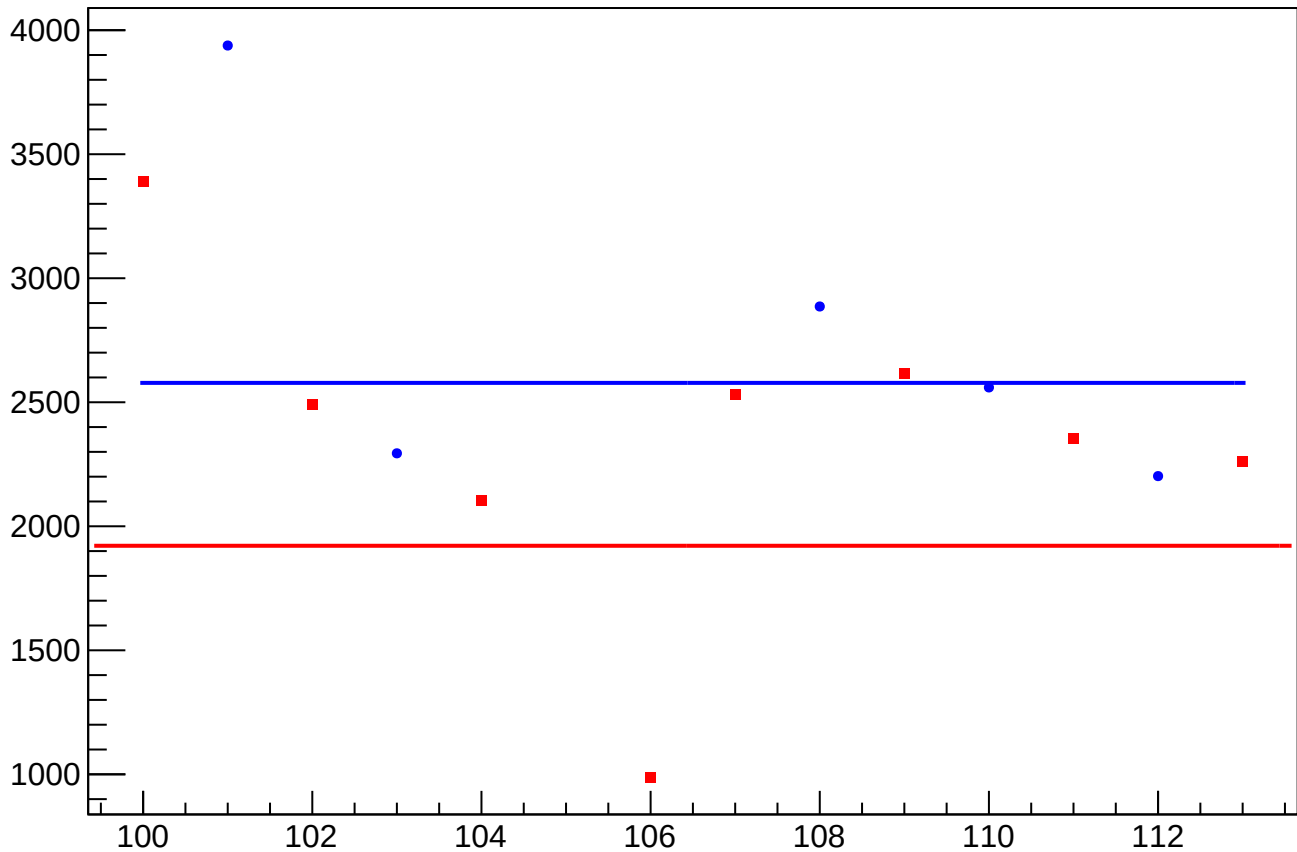
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 178.671+/-946.996  $\chi^2/\text{NDF}$ : 18.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_reg\_correction\_rms vs Slug



Right In: 2578.124+/-1.173  $\chi^2/\text{NDF}$ : 212808.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1921.424+/-0.816  $\chi^2/\text{NDF}$ : 679290.2/7

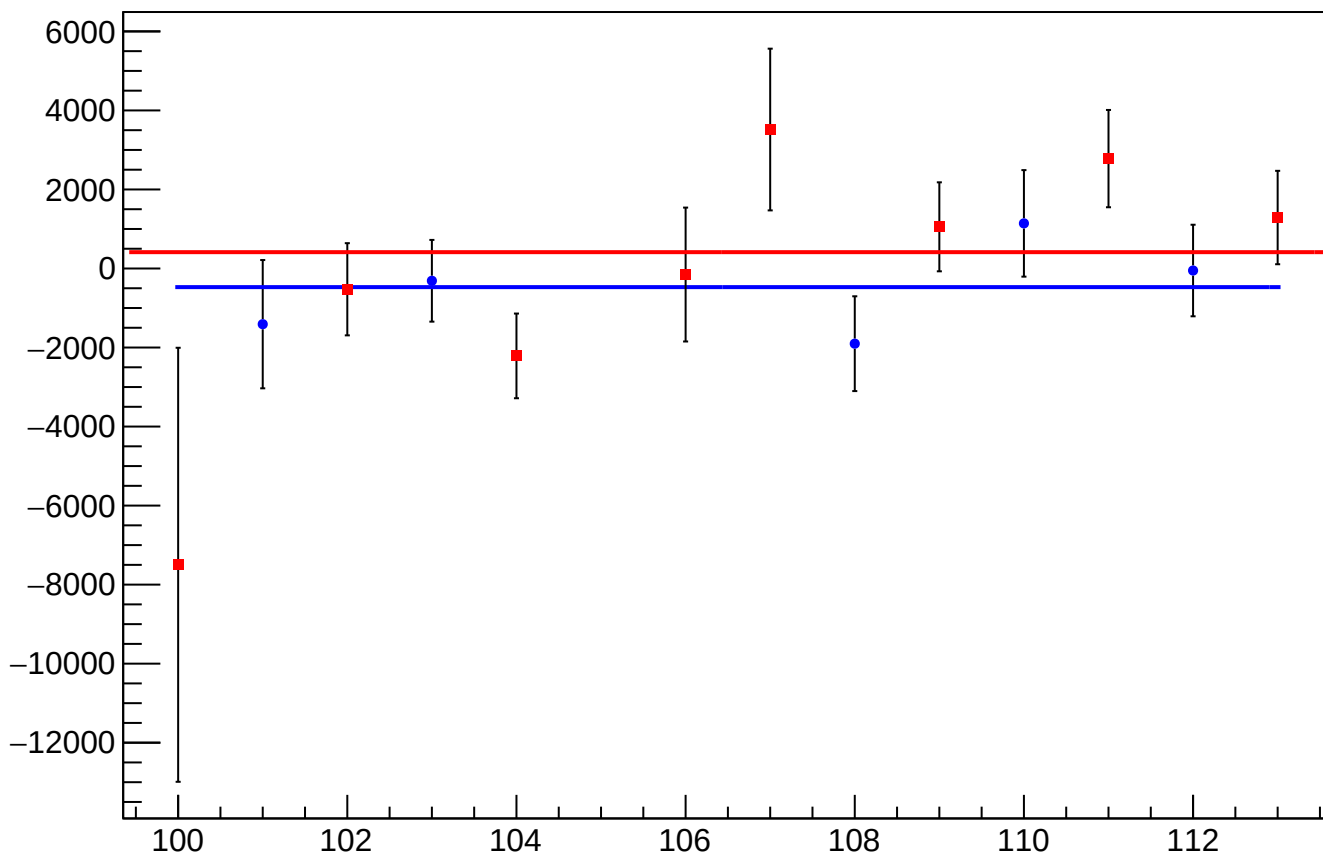
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2135.474+/-0.670  $\chi^2/\text{NDF}$ : 1103403.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -471.402+/-550.059  $\chi^2/\text{NDF}$ : 3.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 413.341+/-477.258  $\chi^2/\text{NDF}$ : 15.7/7

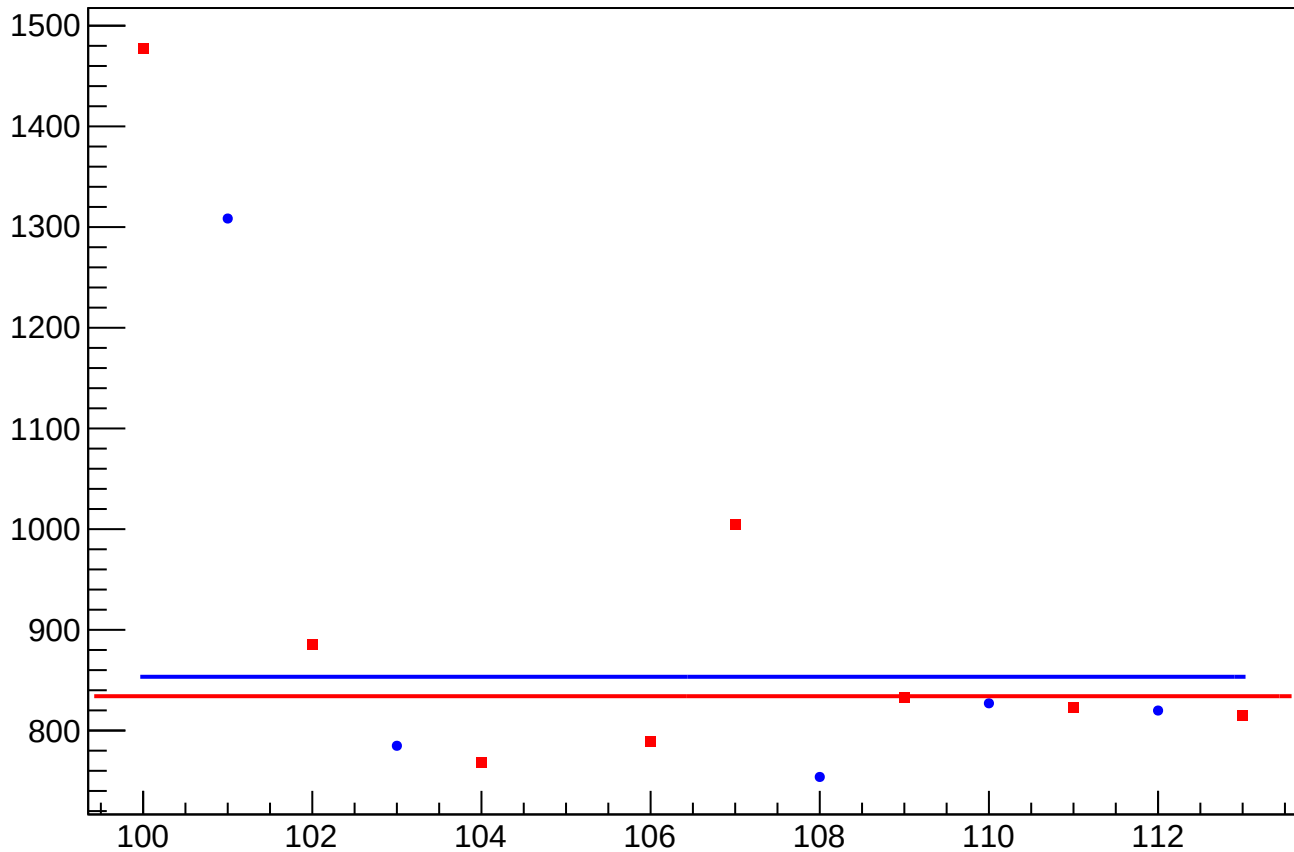
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.354+/-360.483  $\chi^2/\text{NDF}$ : 20.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 853.387 $\pm$ 0.389  $\chi^2$ /NDF: 182193.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 834.092 $\pm$ 0.334  $\chi^2$ /NDF: 55345.3/7

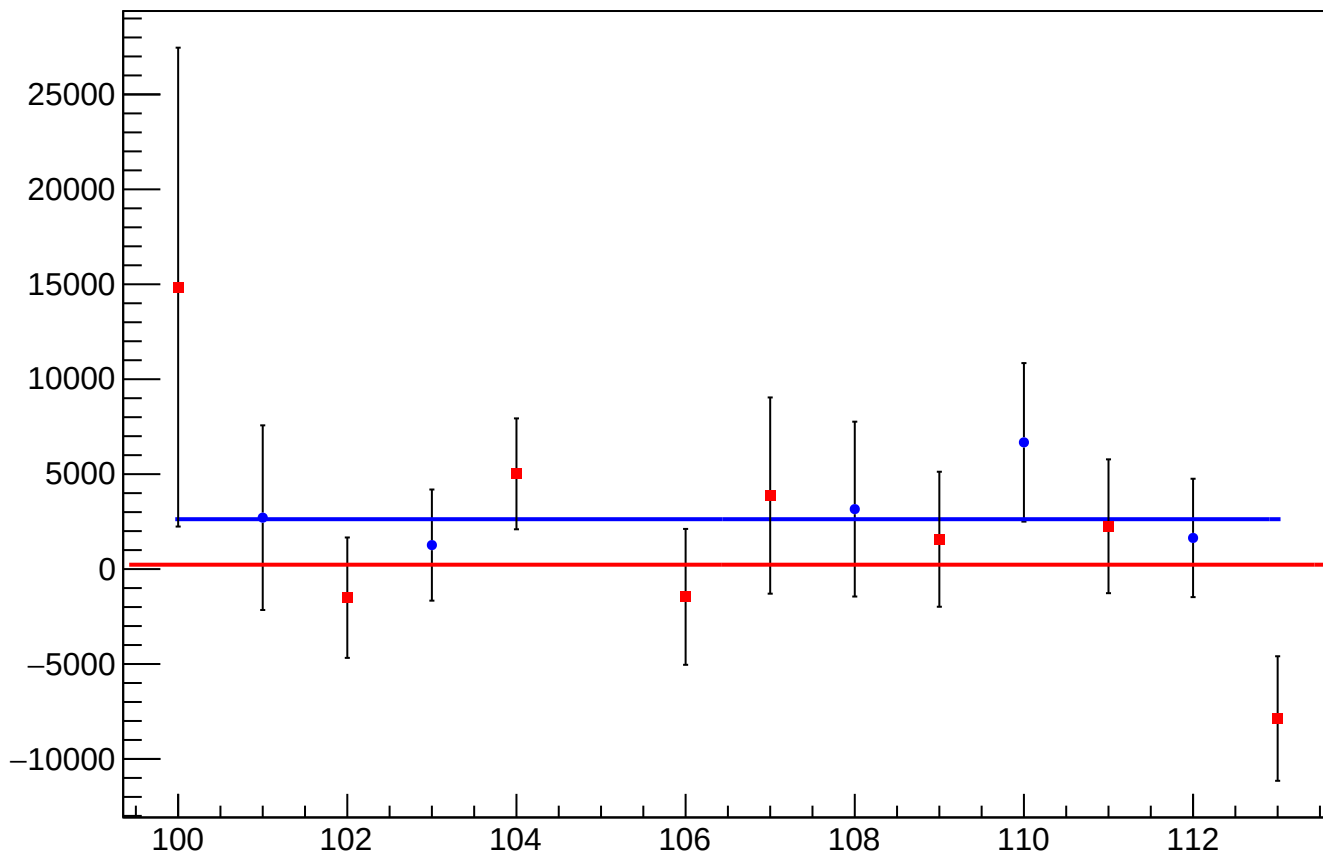
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 842.272 $\pm$ 0.253  $\chi^2$ /NDF: 238956.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_cor\_correction\_mean vs Slug



Right In: 2627.418+/-1651.825  $\chi^2/\text{NDF}$ : 1.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 230.855+/-1300.690  $\chi^2/\text{NDF}$ : 11.6/7

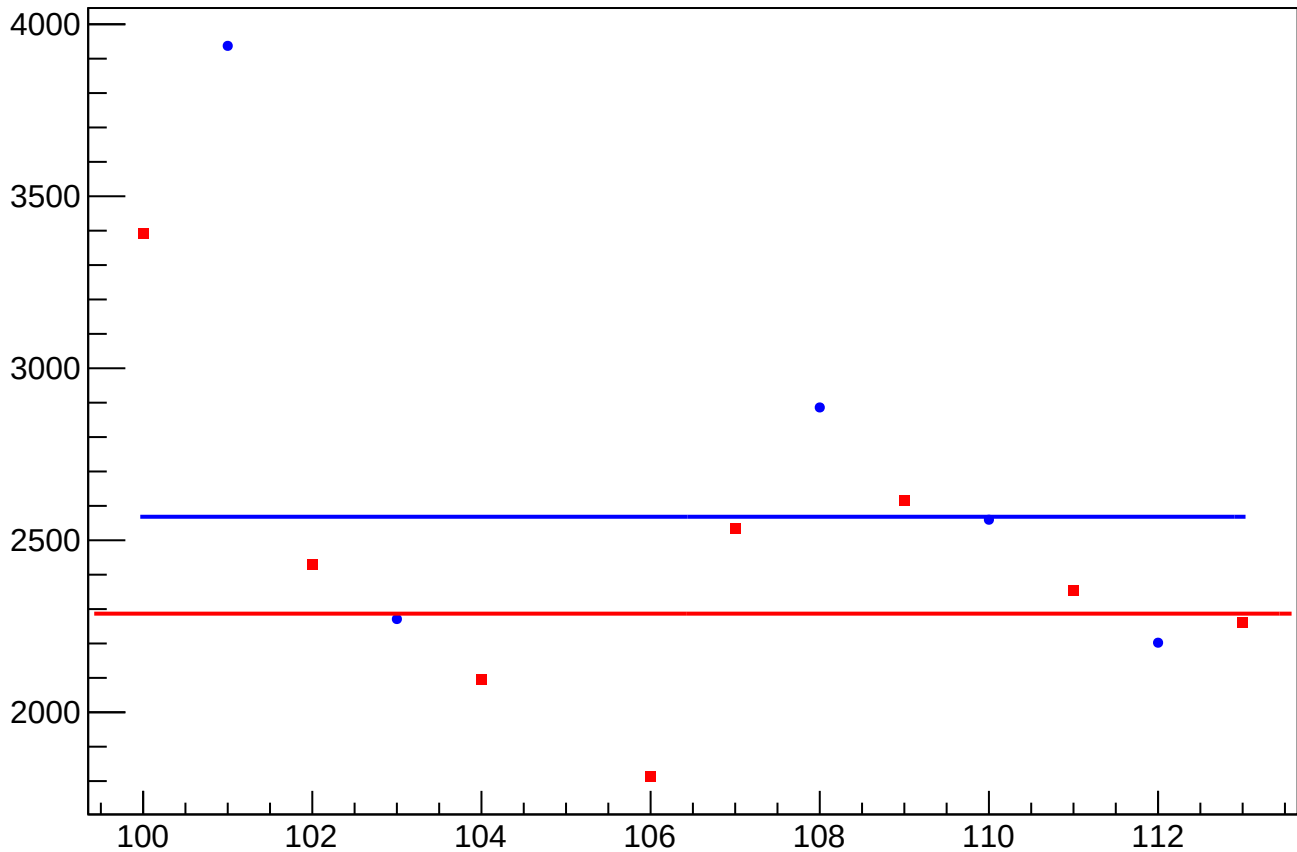
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1148.094+/-1021.906  $\chi^2/\text{NDF}$ : 14.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_cor\_correction\_rms vs Slug



Right In: 2568.390+/-1.168  $\chi^2/\text{NDF}$ : 216269.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2286.722+/-0.920  $\chi^2/\text{NDF}$ : 85975.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

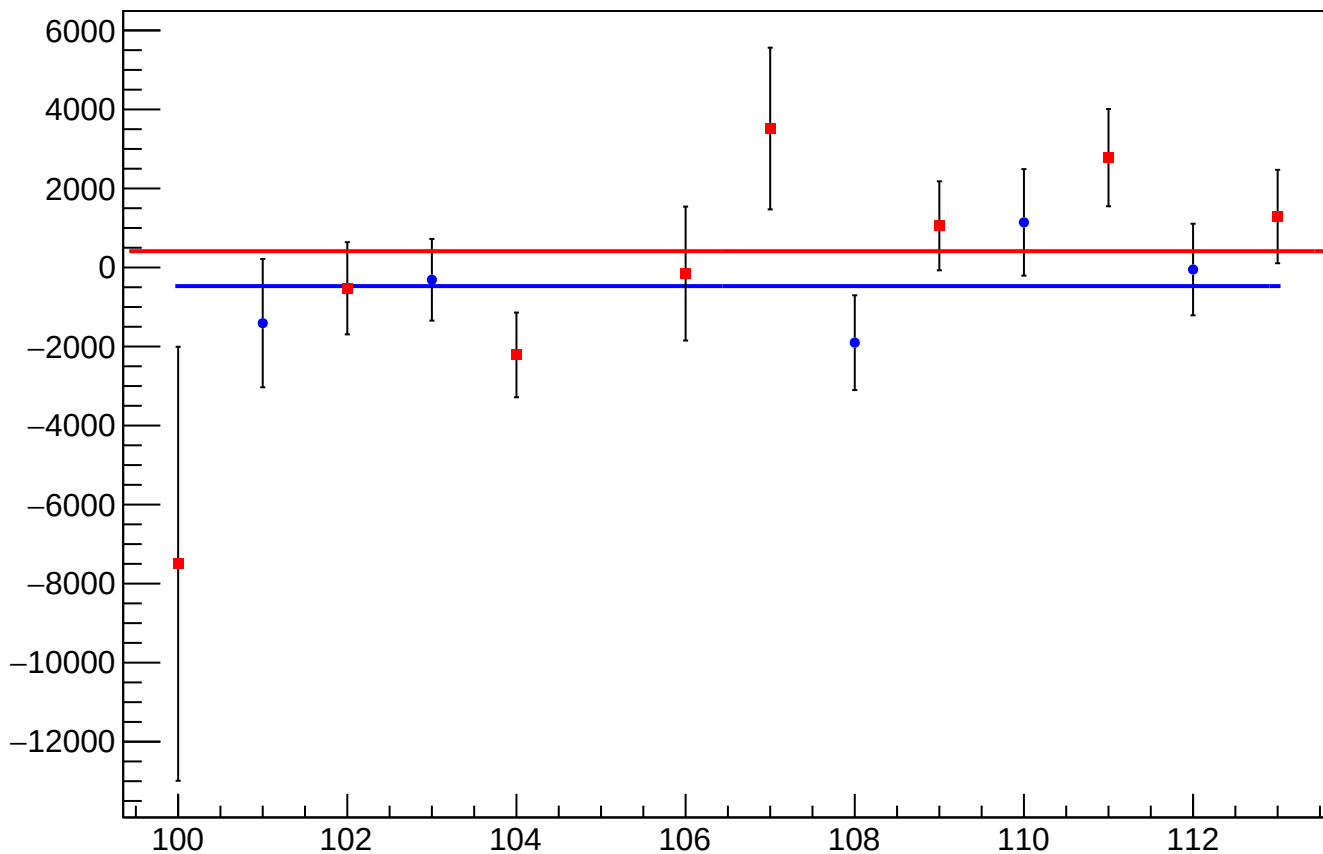
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2394.525+/-0.723  $\chi^2/\text{NDF}$ : 338140.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -471.402 $\pm$ 550.059  $\chi^2$ /NDF: 3.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 413.341 $\pm$ 477.258  $\chi^2$ /NDF: 15.7/7

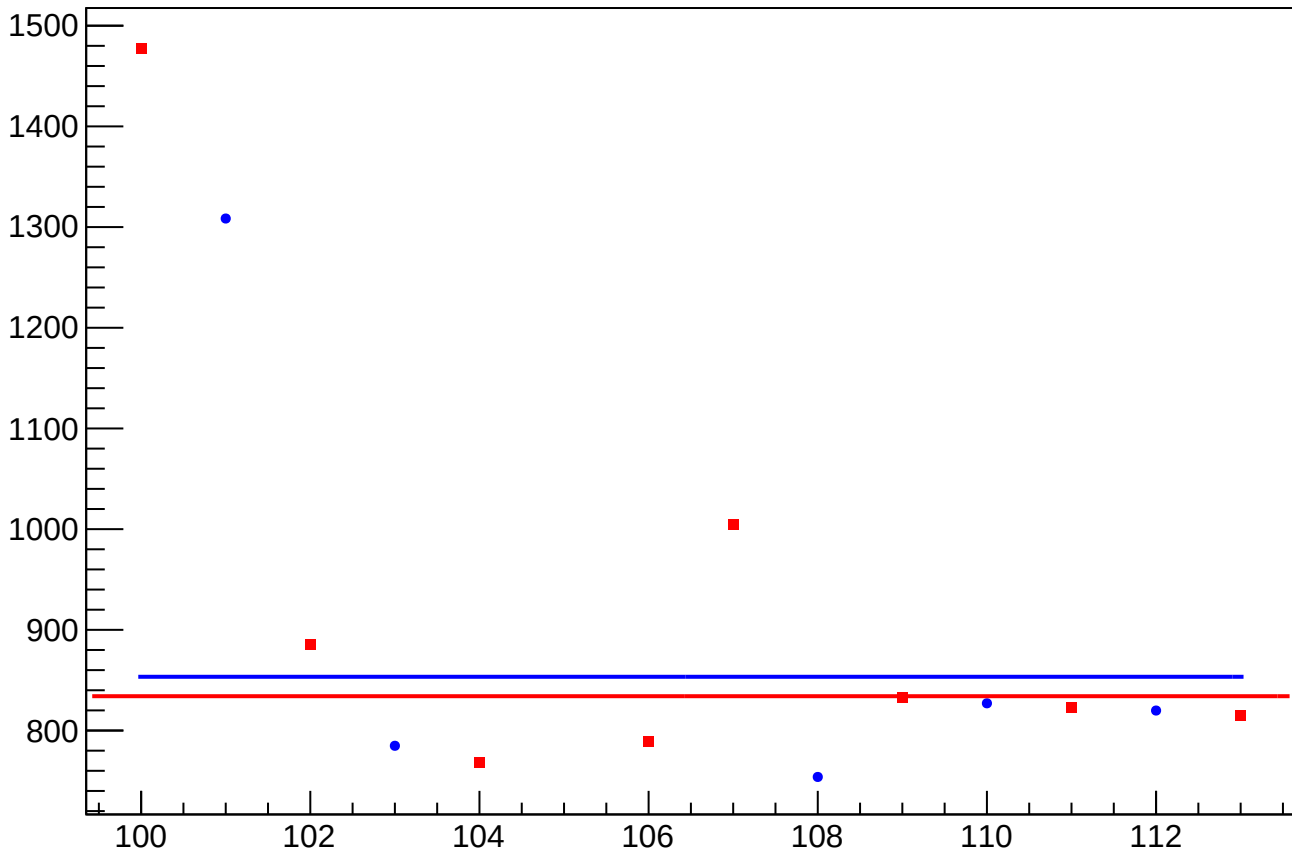
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.354 $\pm$ 360.483  $\chi^2$ /NDF: 20.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 853.387 $\pm$ 0.389  $\chi^2$ /NDF: 182193.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 834.092 $\pm$ 0.334  $\chi^2$ /NDF: 55345.3/7

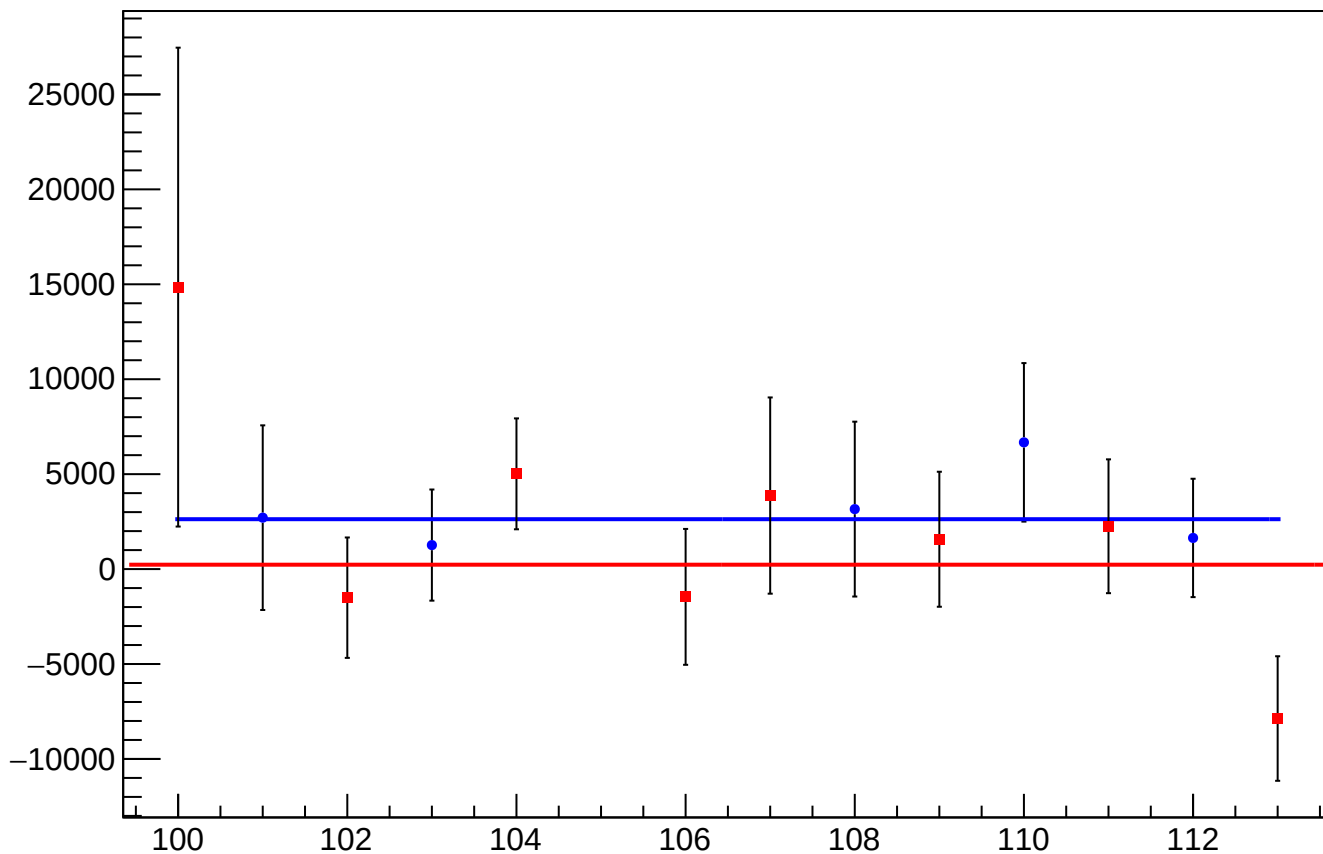
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 842.272 $\pm$ 0.253  $\chi^2$ /NDF: 238956.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 2627.418+/-1651.825  $\chi^2/\text{NDF}$ : 1.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 230.855+/-1300.690  $\chi^2/\text{NDF}$ : 11.6/7

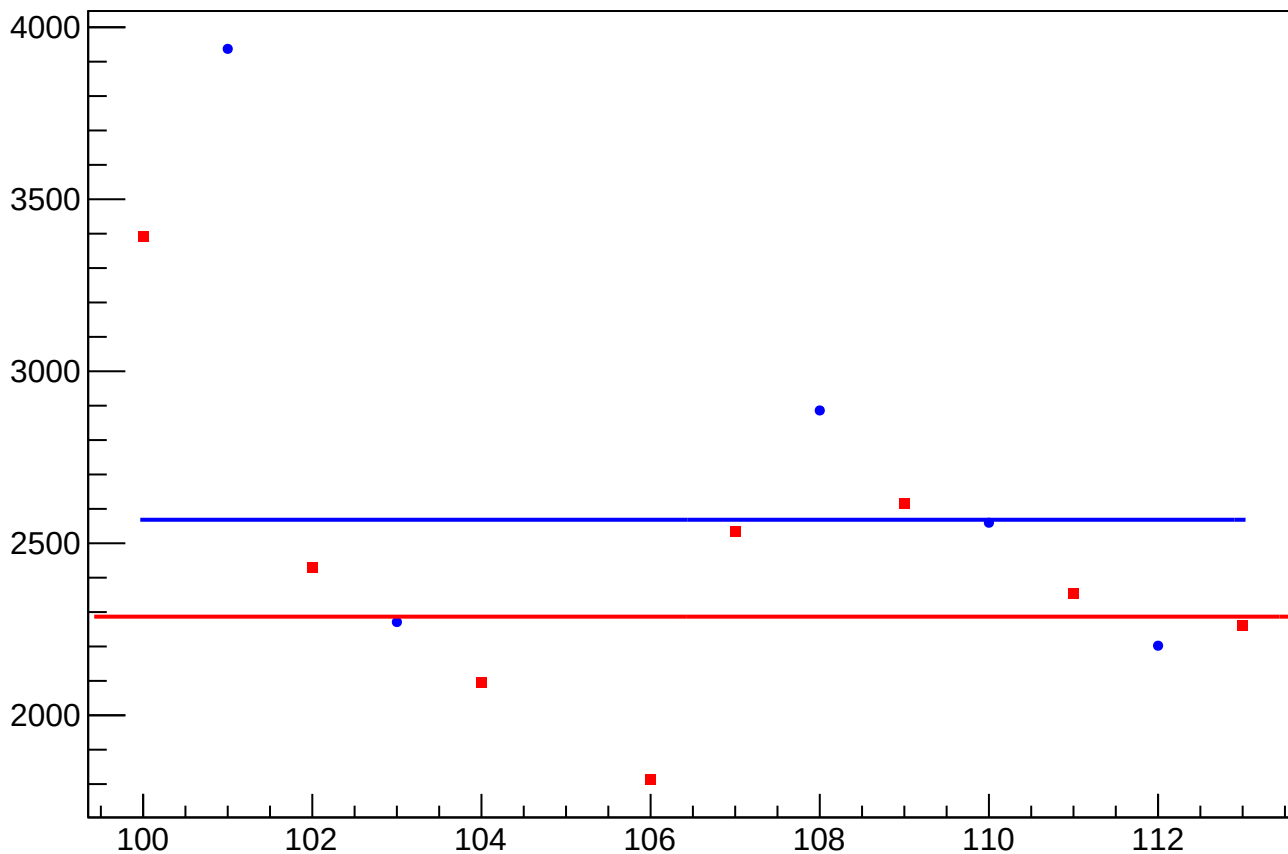
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1148.094+/-1021.906  $\chi^2/\text{NDF}$ : 14.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 2568.390 $\pm$ 1.168  $\chi^2$ /NDF: 216269.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2286.722 $\pm$ 0.920  $\chi^2$ /NDF: 85975.0/7

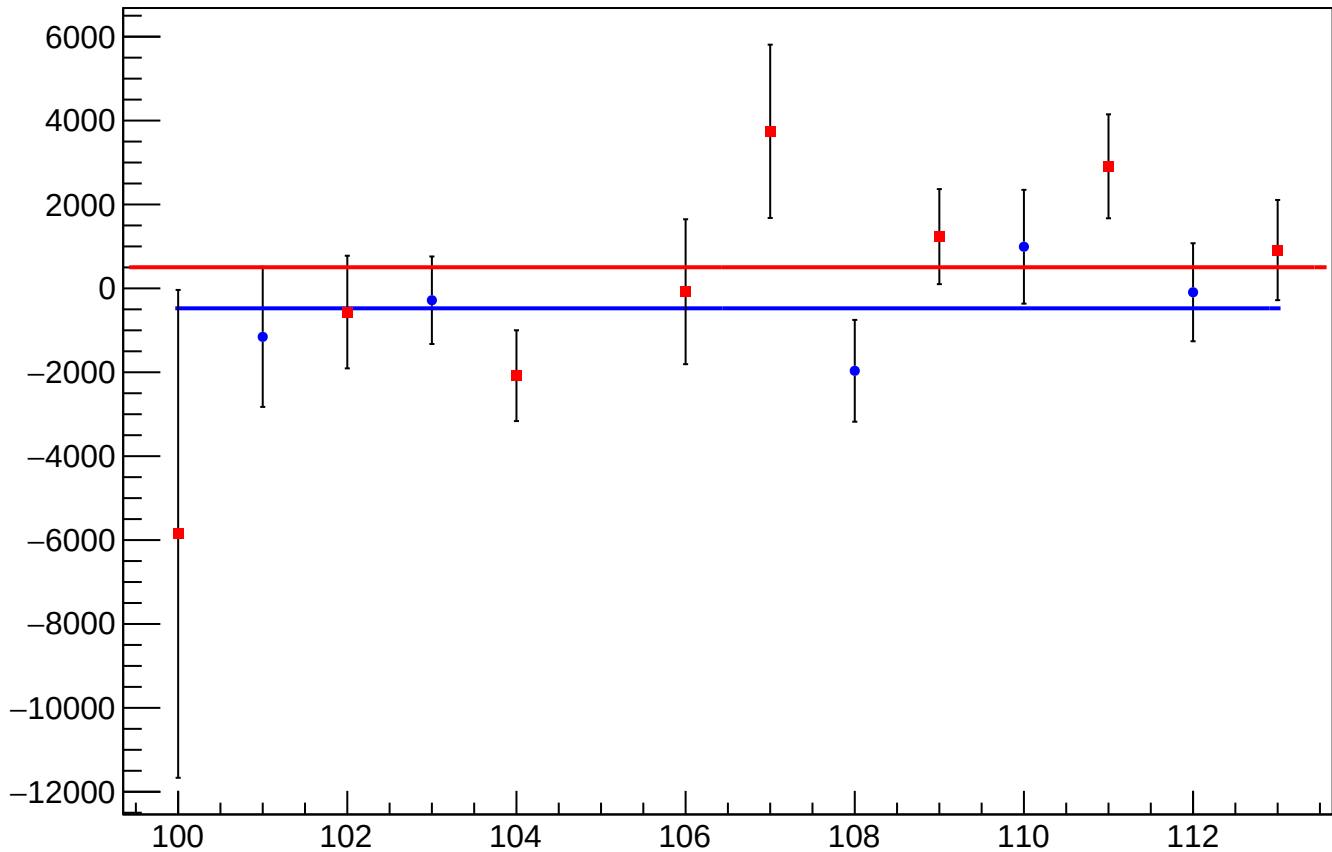
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2394.525 $\pm$ 0.723  $\chi^2$ /NDF: 338140.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -475.388+/-556.162  $\chi^2/\text{NDF}$ : 3.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 503.720+/-491.526  $\chi^2/\text{NDF}$ : 14.4/7

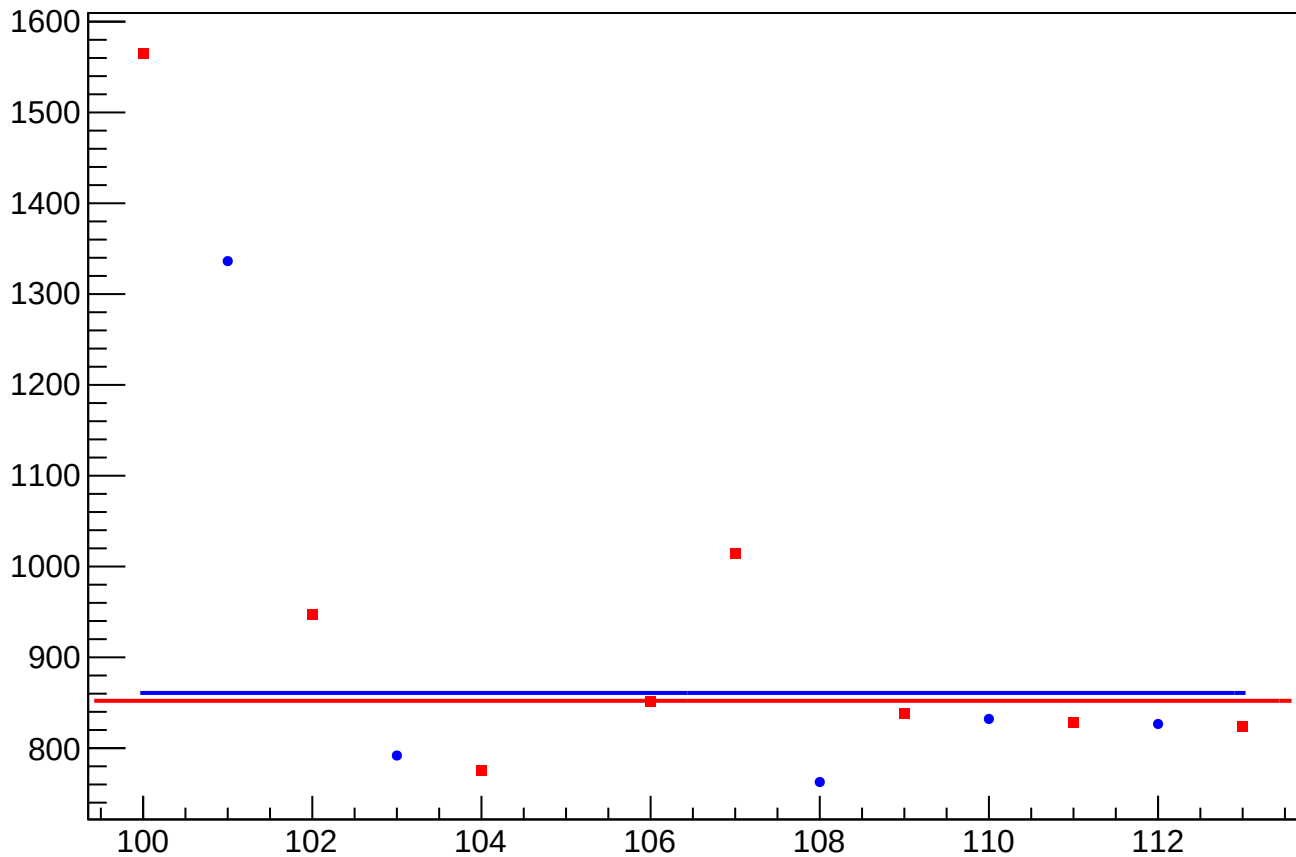
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.342+/-368.304  $\chi^2/\text{NDF}$ : 19.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 860.792 $\pm$ 0.393  $\chi^2$ /NDF: 186569.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 852.147 $\pm$ 0.347  $\chi^2$ /NDF: 64703.8/7

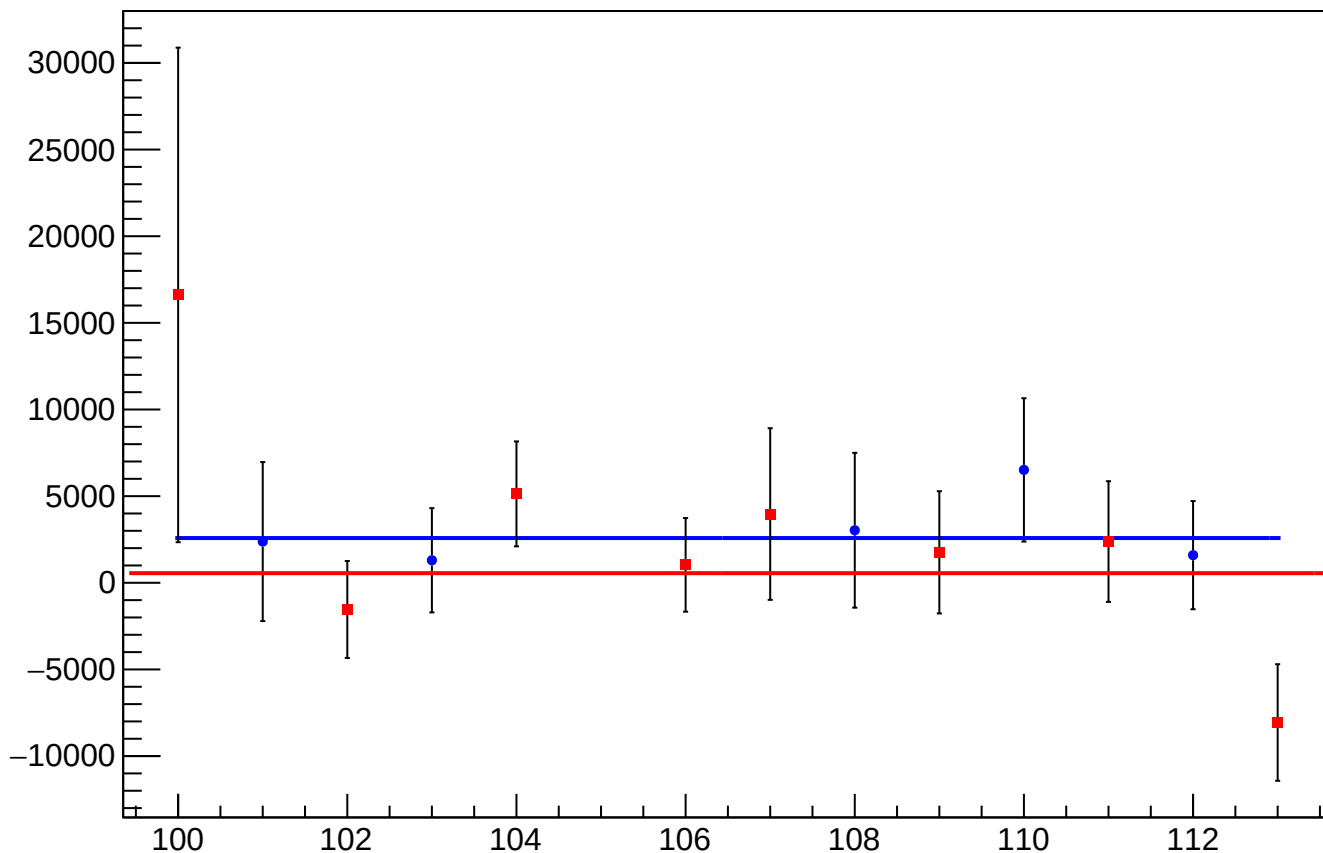
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 855.929 $\pm$ 0.260  $\chi^2$ /NDF: 251544.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_dit\_correction\_mean vs Slug



Right In: 2582.011+/-1645.752  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 556.228+/-1221.013  $\chi^2/\text{NDF}$ : 11.6/7

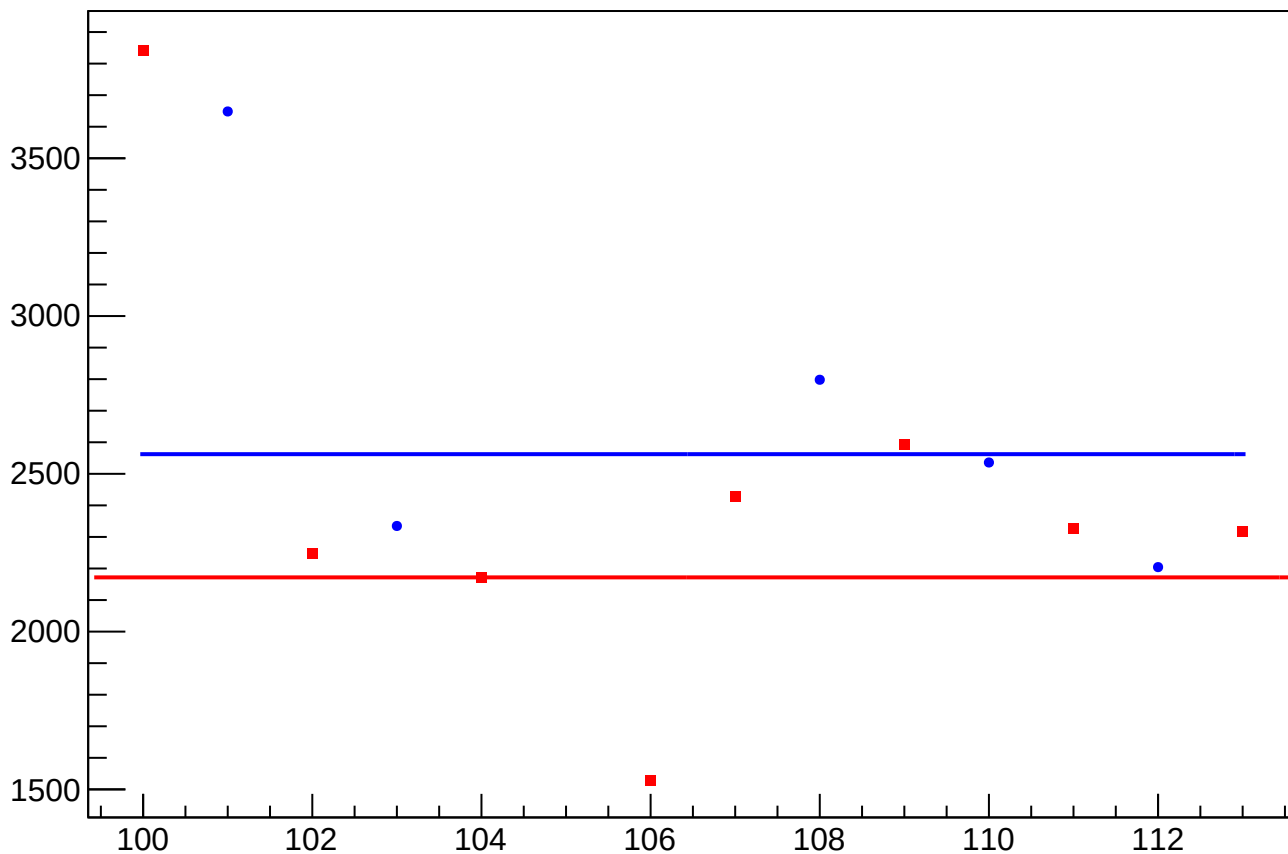
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1275.427+/-980.602  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_dit\_correction\_rms vs Slug



Right In: 2562.304+/-1.164  $\chi^2/\text{NDF}$ : 155447.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2171.841+/-0.863  $\chi^2/\text{NDF}$ : 183635.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

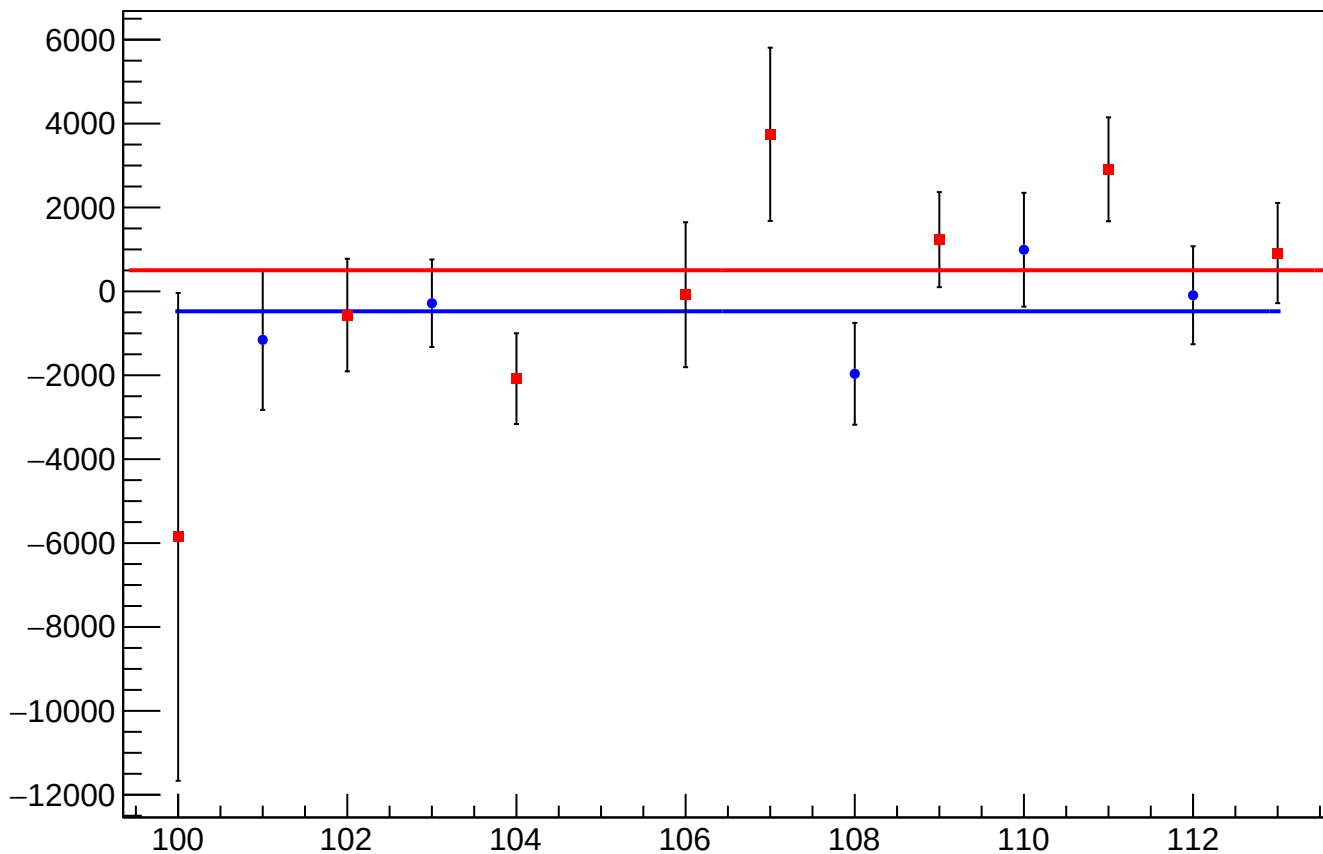
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2310.464+/-0.693  $\chi^2/\text{NDF}$ : 411694.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -475.396+/-556.162  $\chi^2/\text{NDF}$ : 3.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 503.729+/-491.526  $\chi^2/\text{NDF}$ : 14.4/7

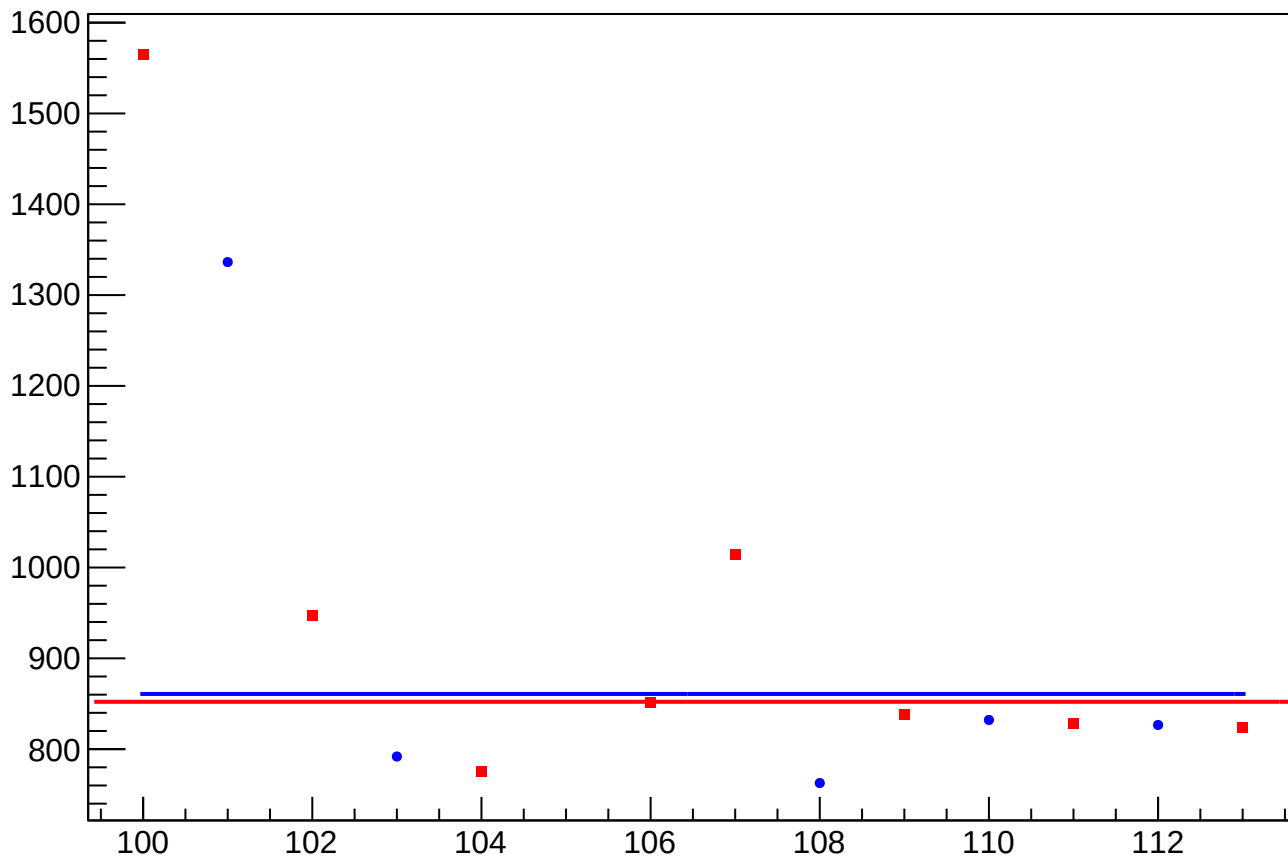
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.344+/-368.304  $\chi^2/\text{NDF}$ : 19.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 860.793+/-0.393  $\chi^2/\text{NDF}$ : 186568.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 852.147+/-0.347  $\chi^2/\text{NDF}$ : 64703.8/7

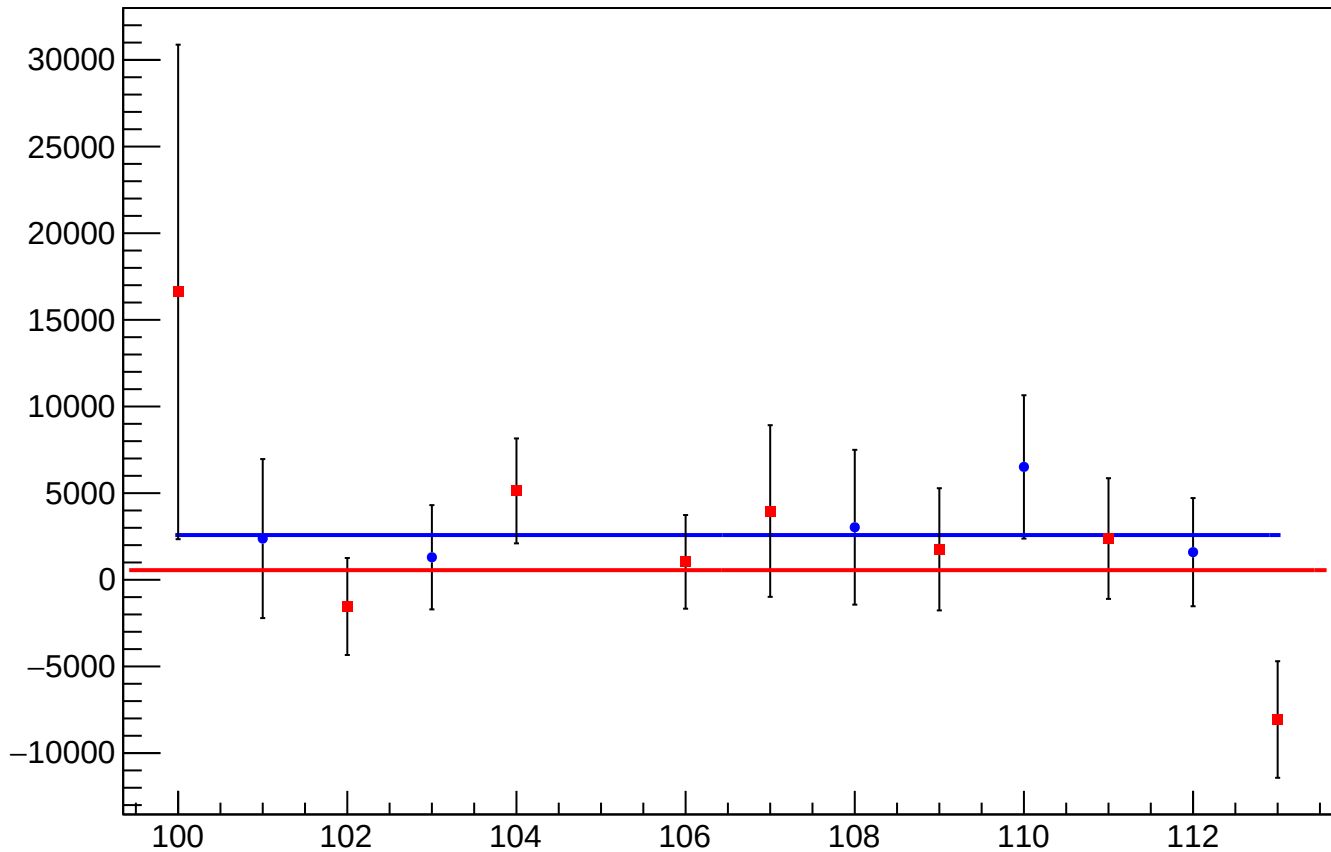
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 855.929+/-0.260  $\chi^2/\text{NDF}$ : 251544.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 2582.006 $\pm$ 1645.749  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 556.229 $\pm$ 1221.011  $\chi^2$ /NDF: 11.6/7

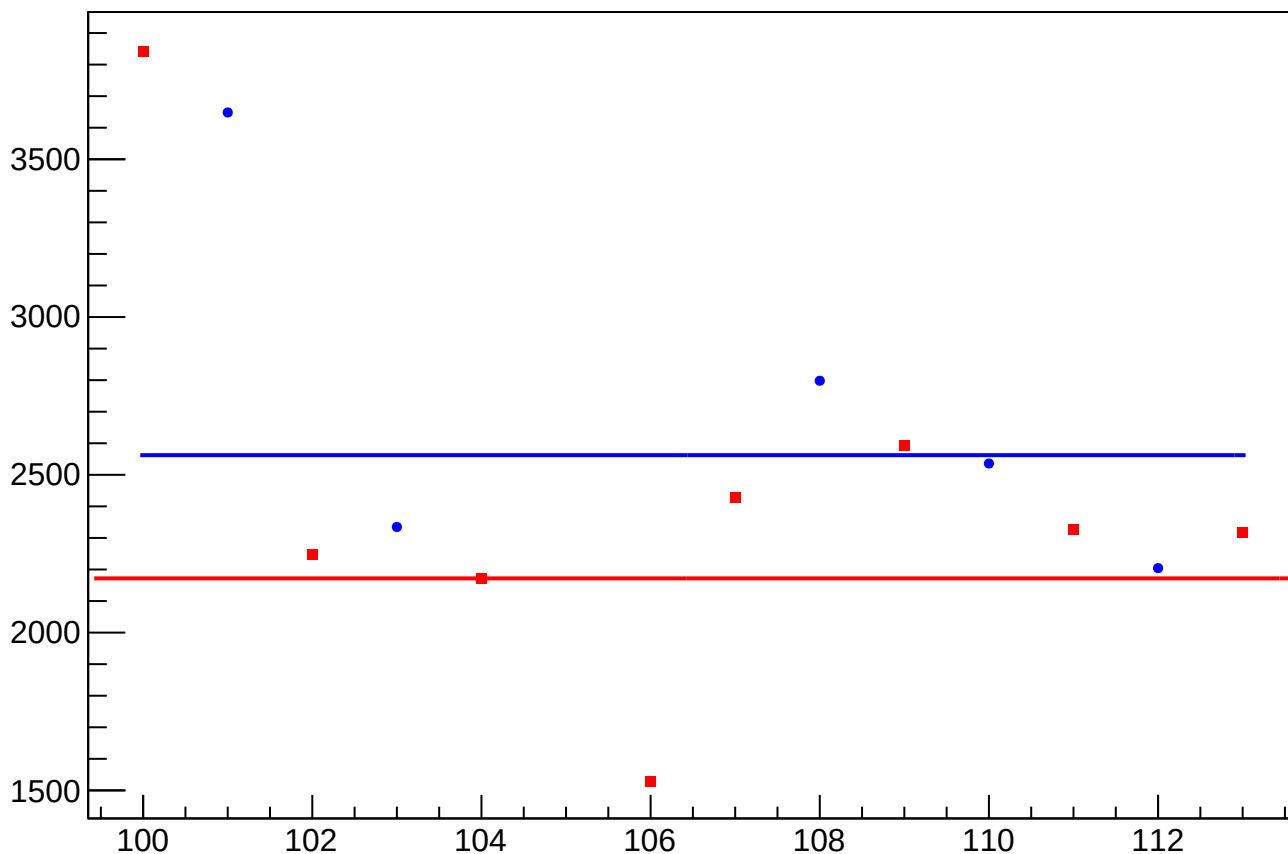
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1275.426 $\pm$ 980.600  $\chi^2$ /NDF: 13.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 2562.298+/-1.164  $\chi^2/\text{NDF}$ : 155447.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2171.836+/-0.863  $\chi^2/\text{NDF}$ : 183637.7/7

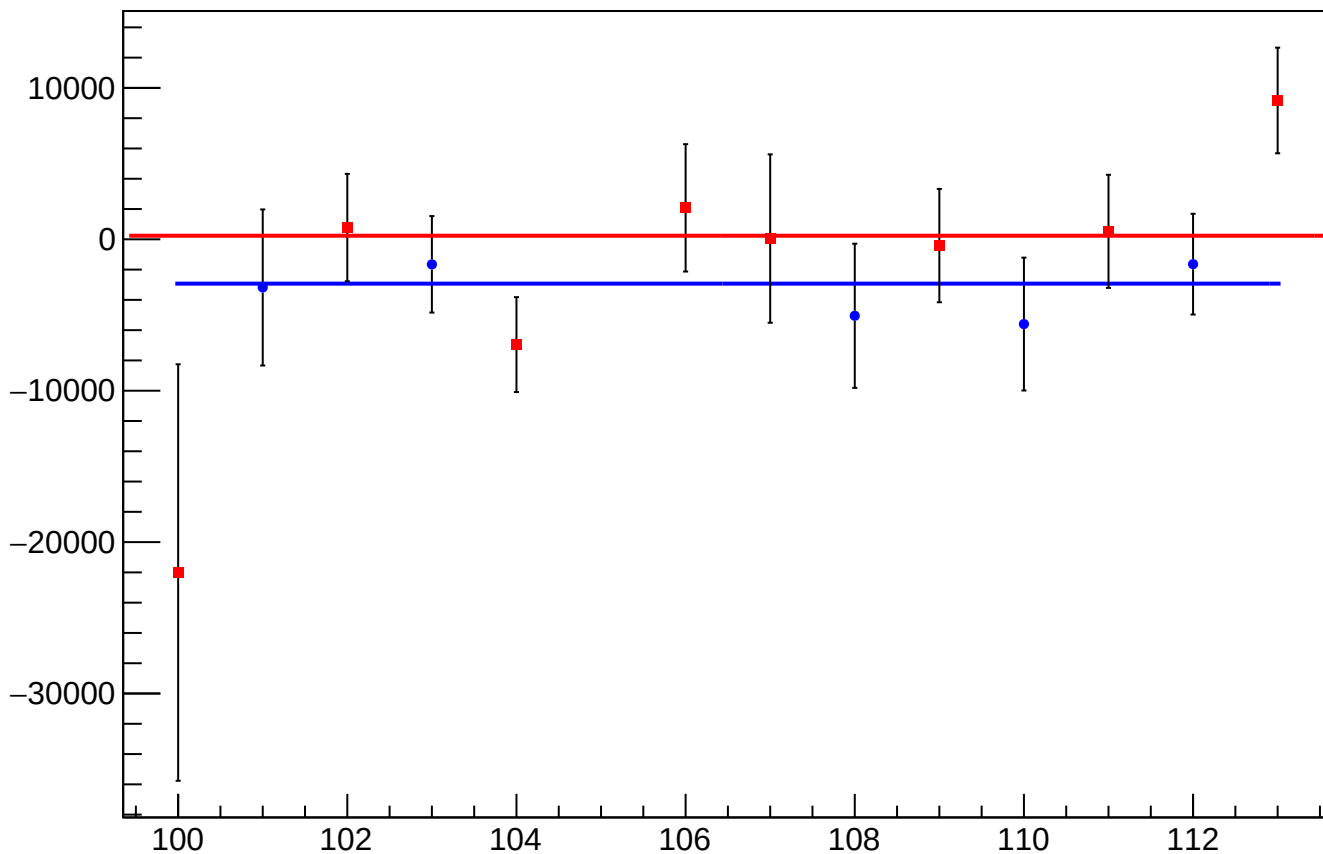
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2310.459+/-0.693  $\chi^2/\text{NDF}$ : 411696.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -2928.216+/-1761.139  $\chi^2$ /NDF: 0.9/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 237.341+/-1413.314  $\chi^2$ /NDF: 14.7/7

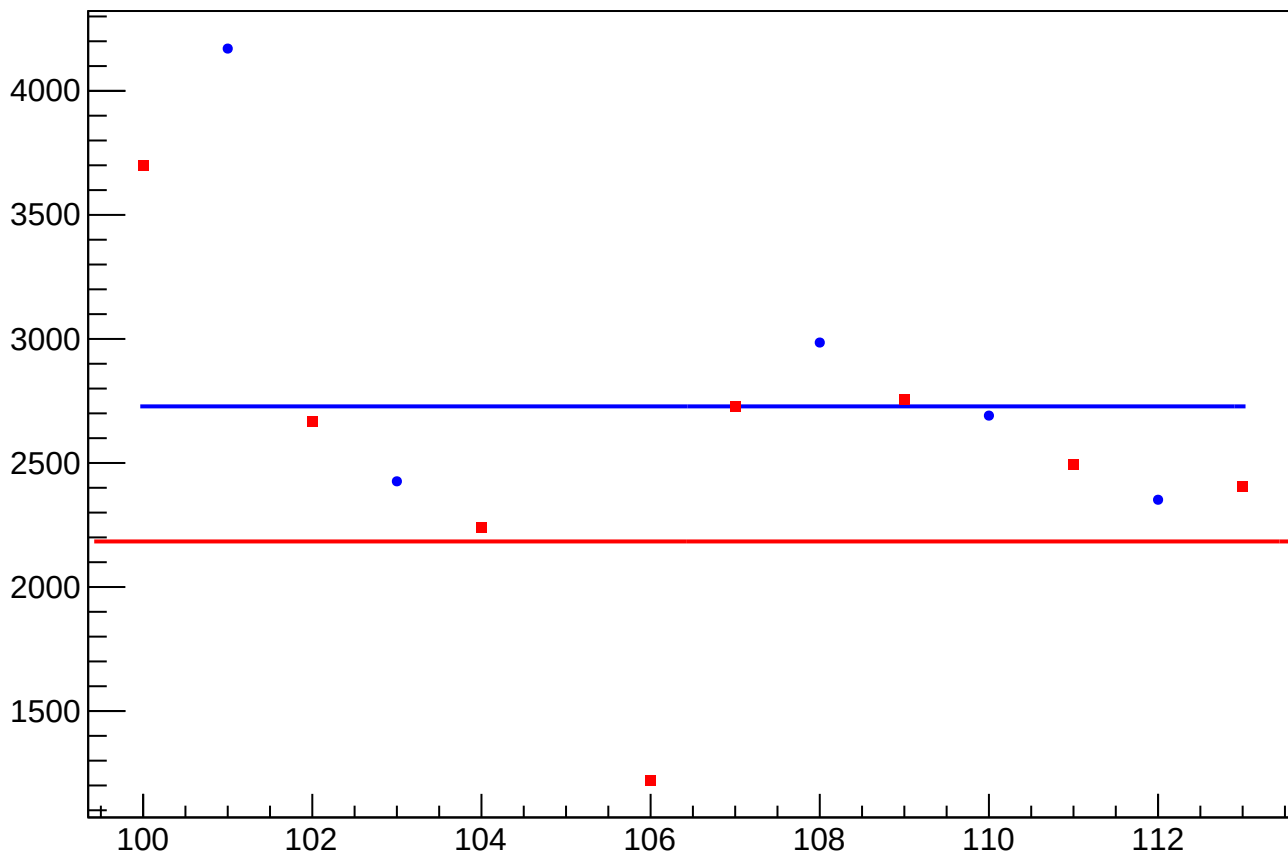
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1002.702+/-1102.268  $\chi^2$ /NDF: 17.5/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 2728.160+/-1.245  $\chi^2/\text{NDF}$ : 206183.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2183.673+/-0.912  $\chi^2/\text{NDF}$ : 441569.2/7

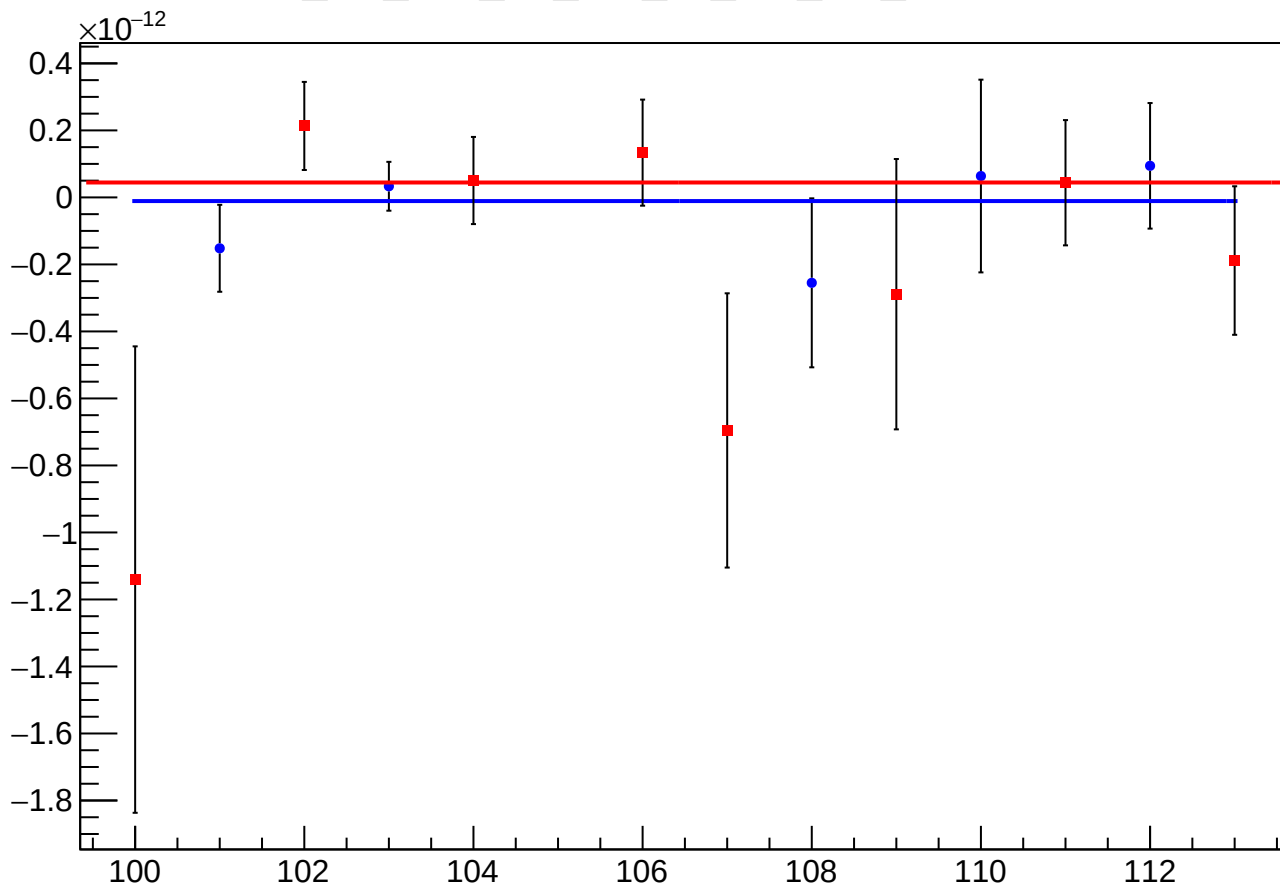
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2373.766+/-0.736  $\chi^2/\text{NDF}$ : 772181.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 9.9/7

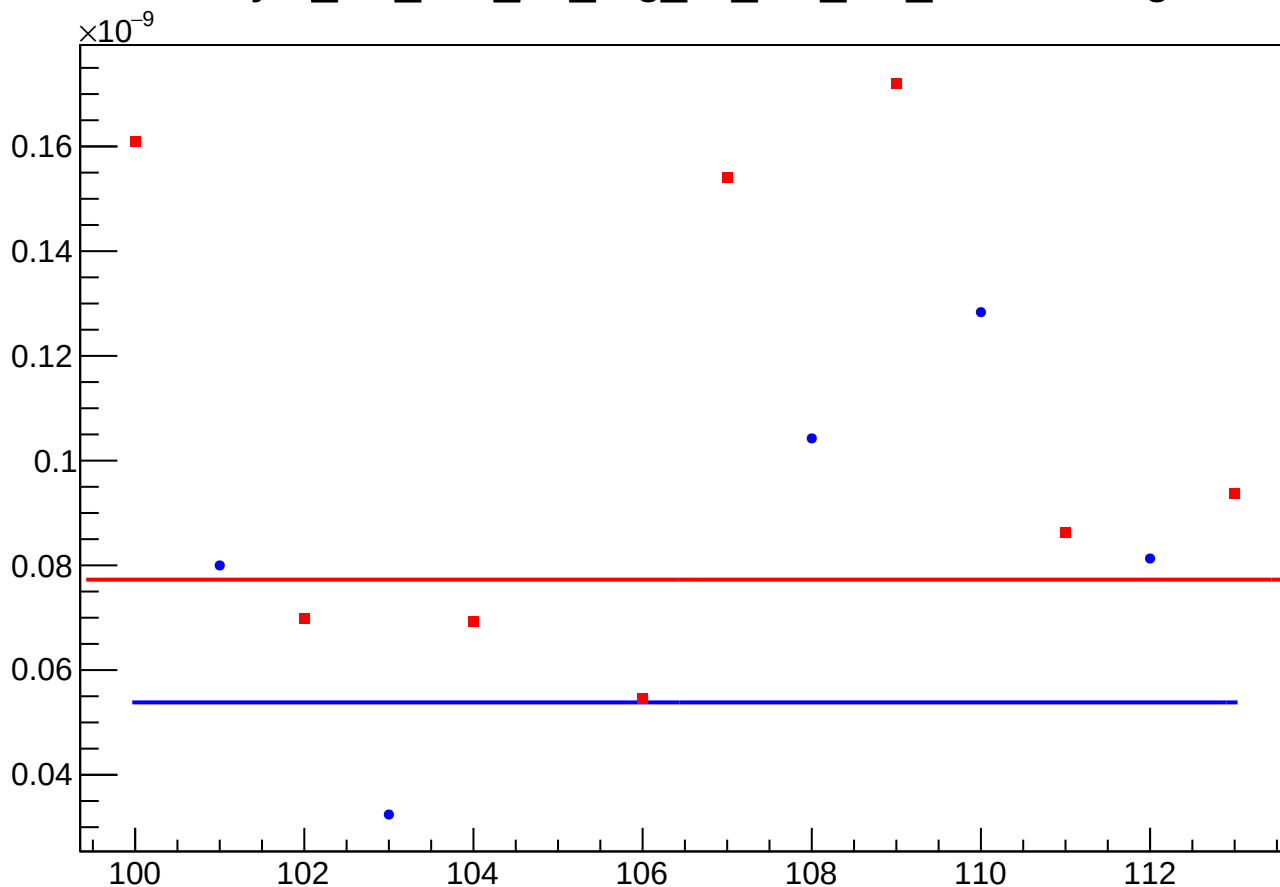
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 13.2/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 511007.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 280234.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

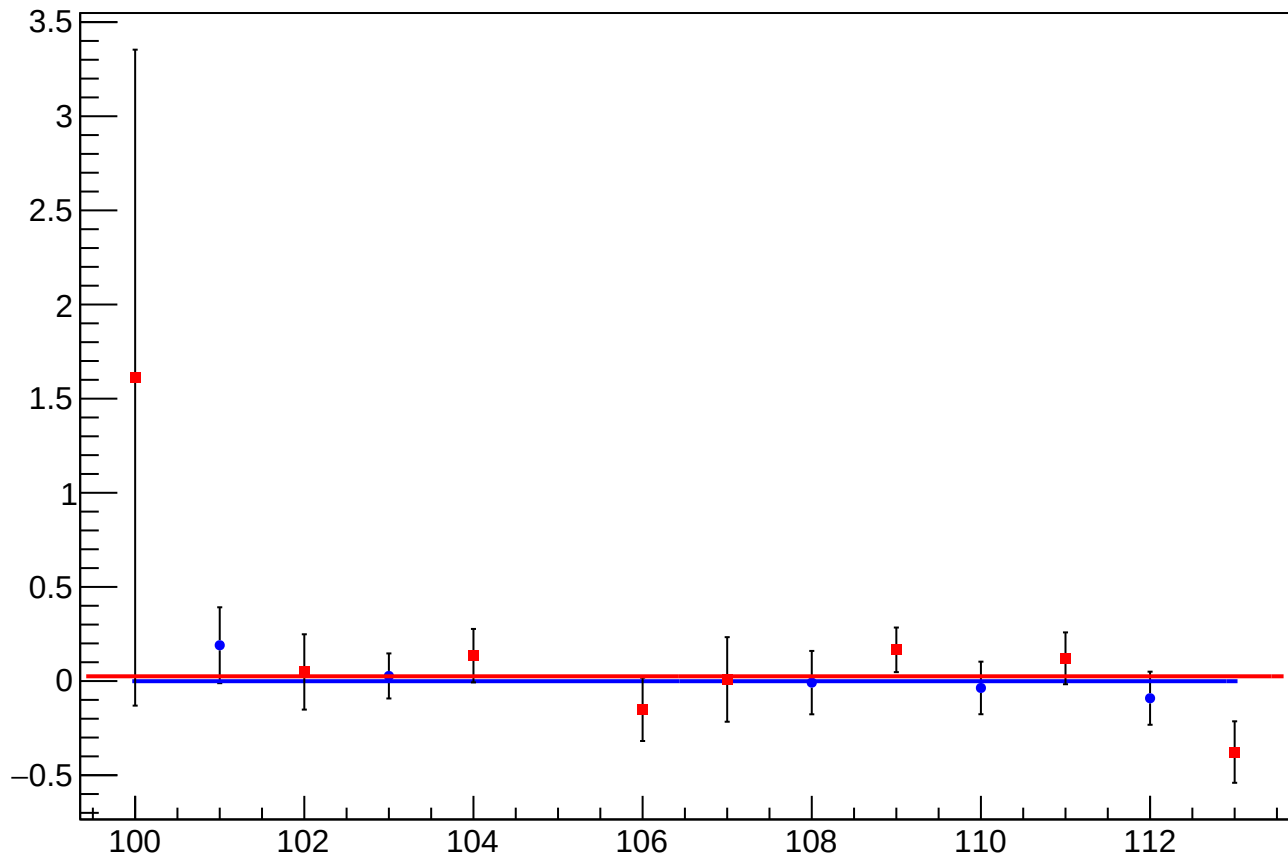
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 931510.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_usl\_atl2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.001 $\pm$ 0.066  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.025 $\pm$ 0.059  $\chi^2$ /NDF: 10.5/7

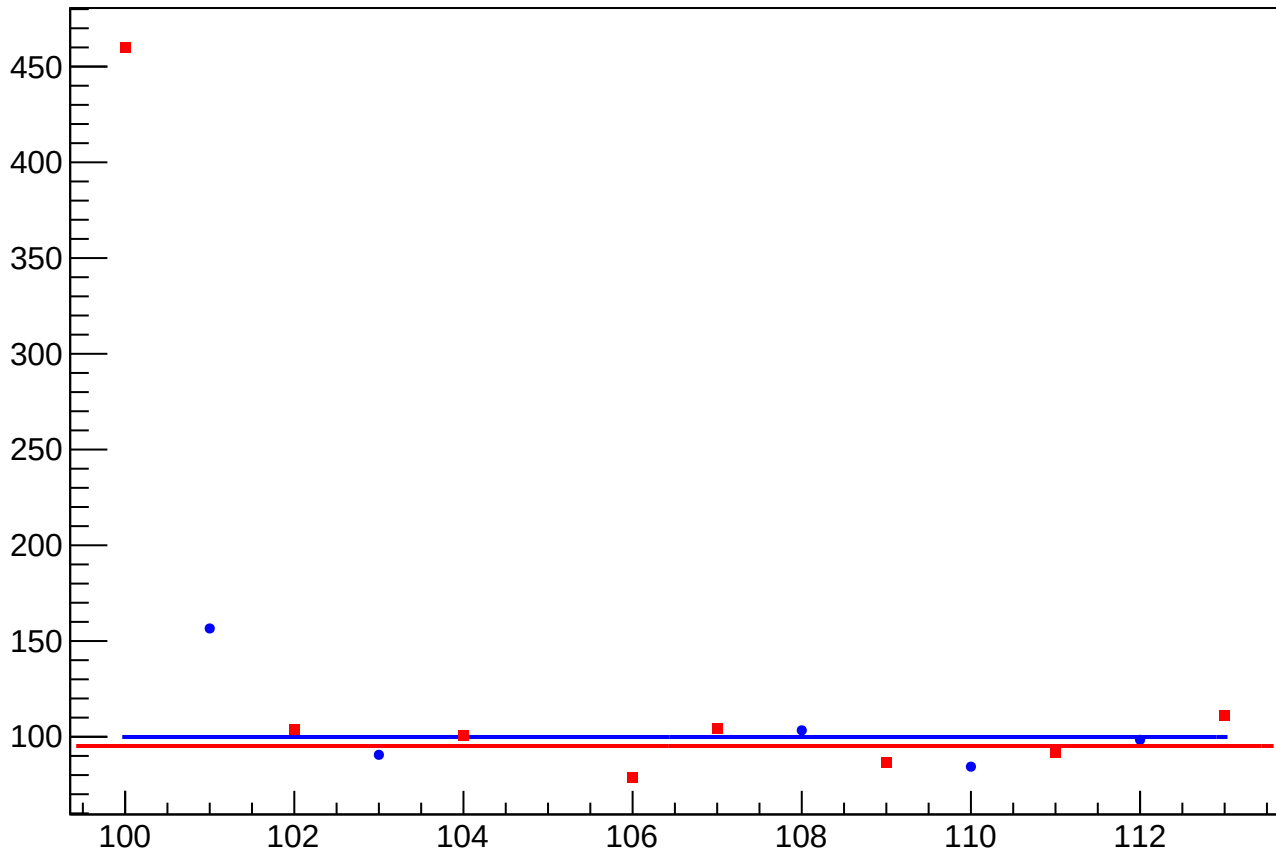
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.014 $\pm$ 0.044  $\chi^2$ /NDF: 12.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 99.878+/-0.046  $\chi^2/\text{NDF}$ : 195997.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 95.184+/-0.041  $\chi^2/\text{NDF}$ : 147731.5/7

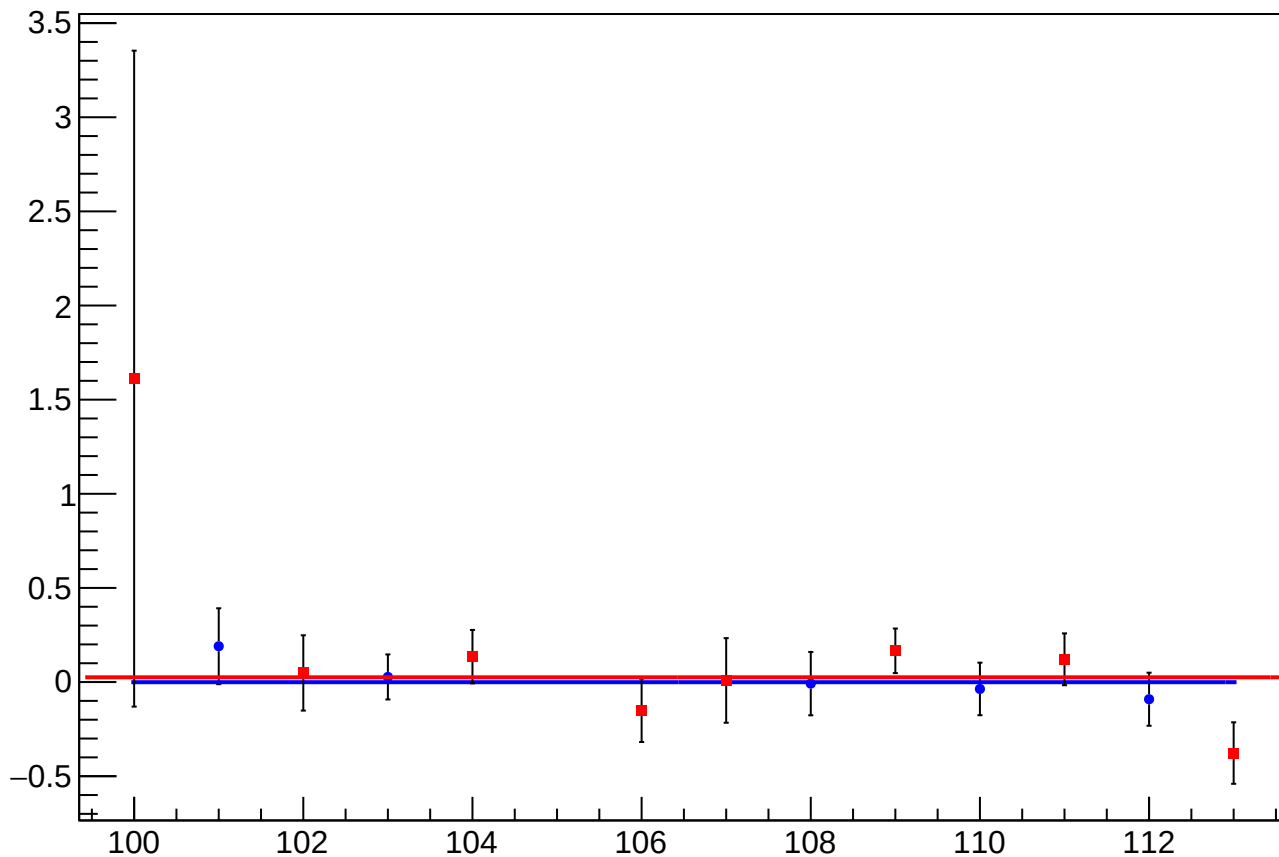
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 97.260+/-0.031  $\chi^2/\text{NDF}$ : 349416.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.001 $\pm$ 0.066  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.025 $\pm$ 0.059  $\chi^2$ /NDF: 10.5/7

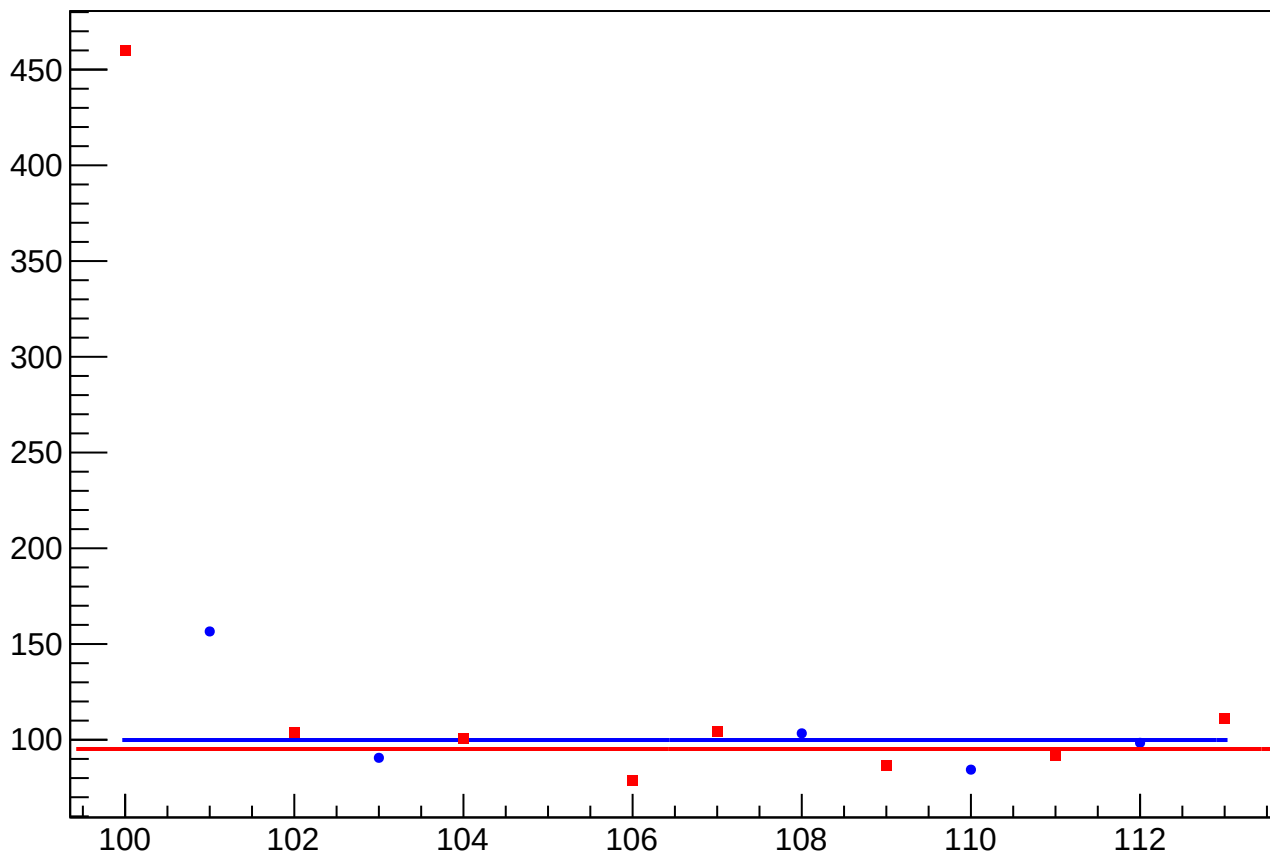
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.014 $\pm$ 0.044  $\chi^2$ /NDF: 12.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 99.878+/-0.046  $\chi^2/\text{NDF}$ : 195997.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 95.184+/-0.041  $\chi^2/\text{NDF}$ : 147731.5/7

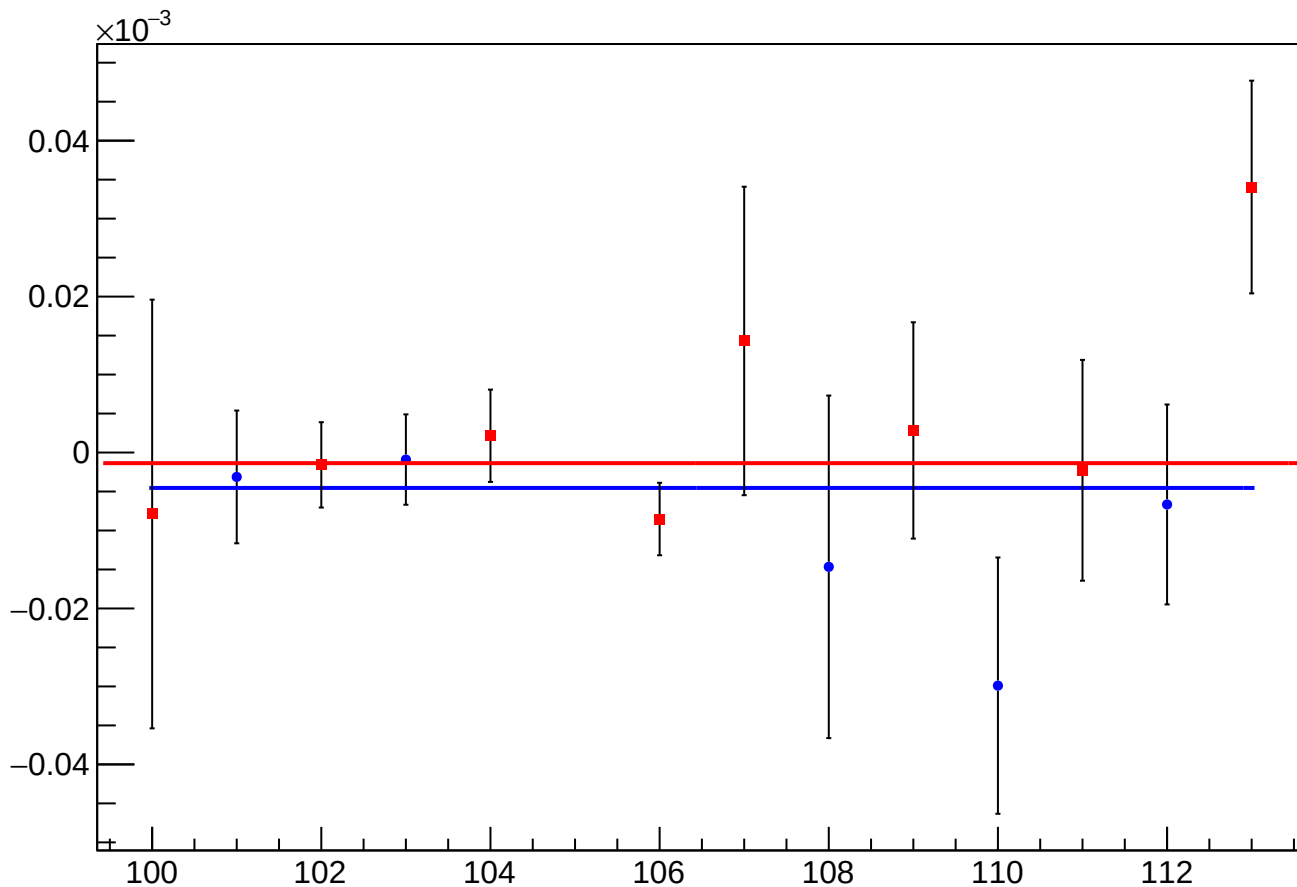
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 97.260+/-0.031  $\chi^2/\text{NDF}$ : 349416.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 3.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 10.3/7

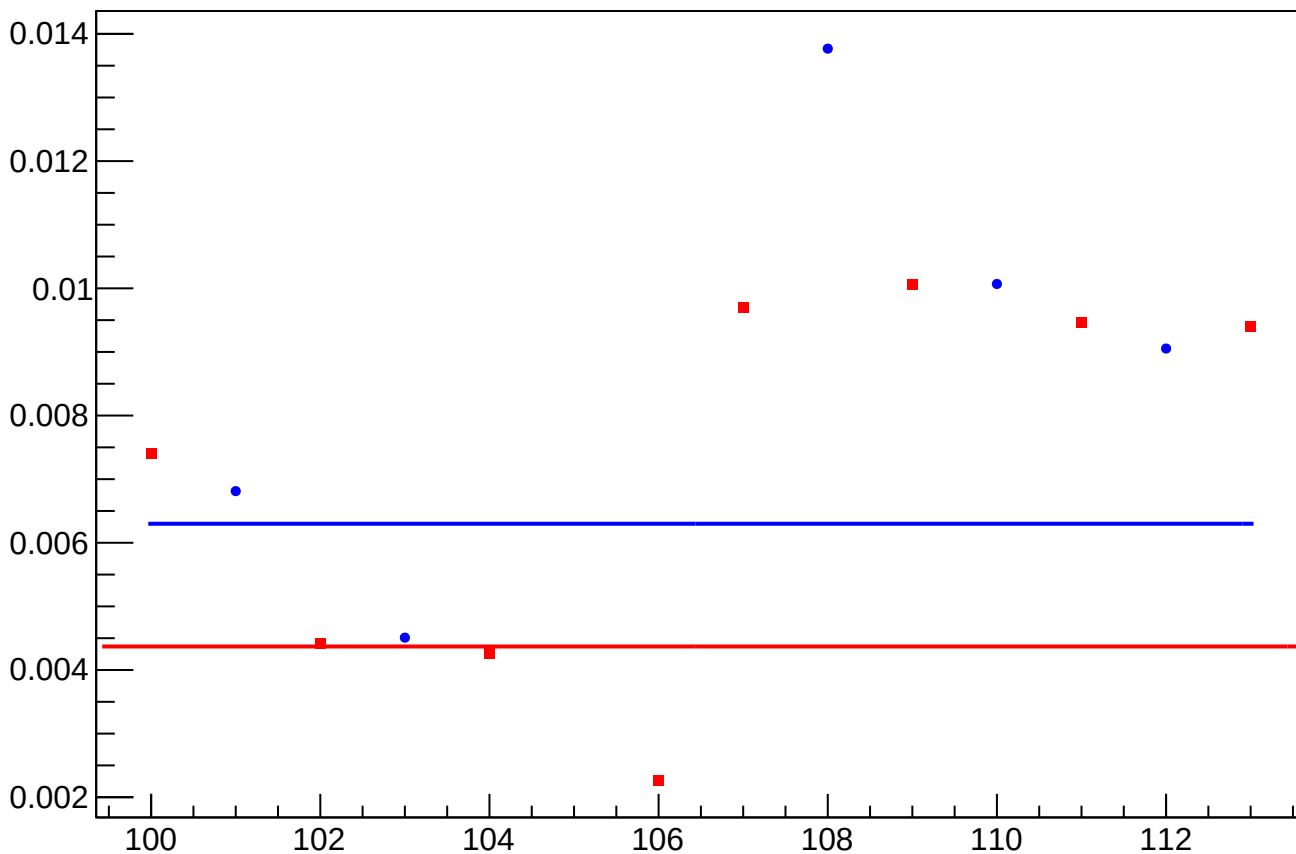
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 13.7/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.006 $\pm$ 0.000  $\chi^2$ /NDF: 626674.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 1448033.6/7

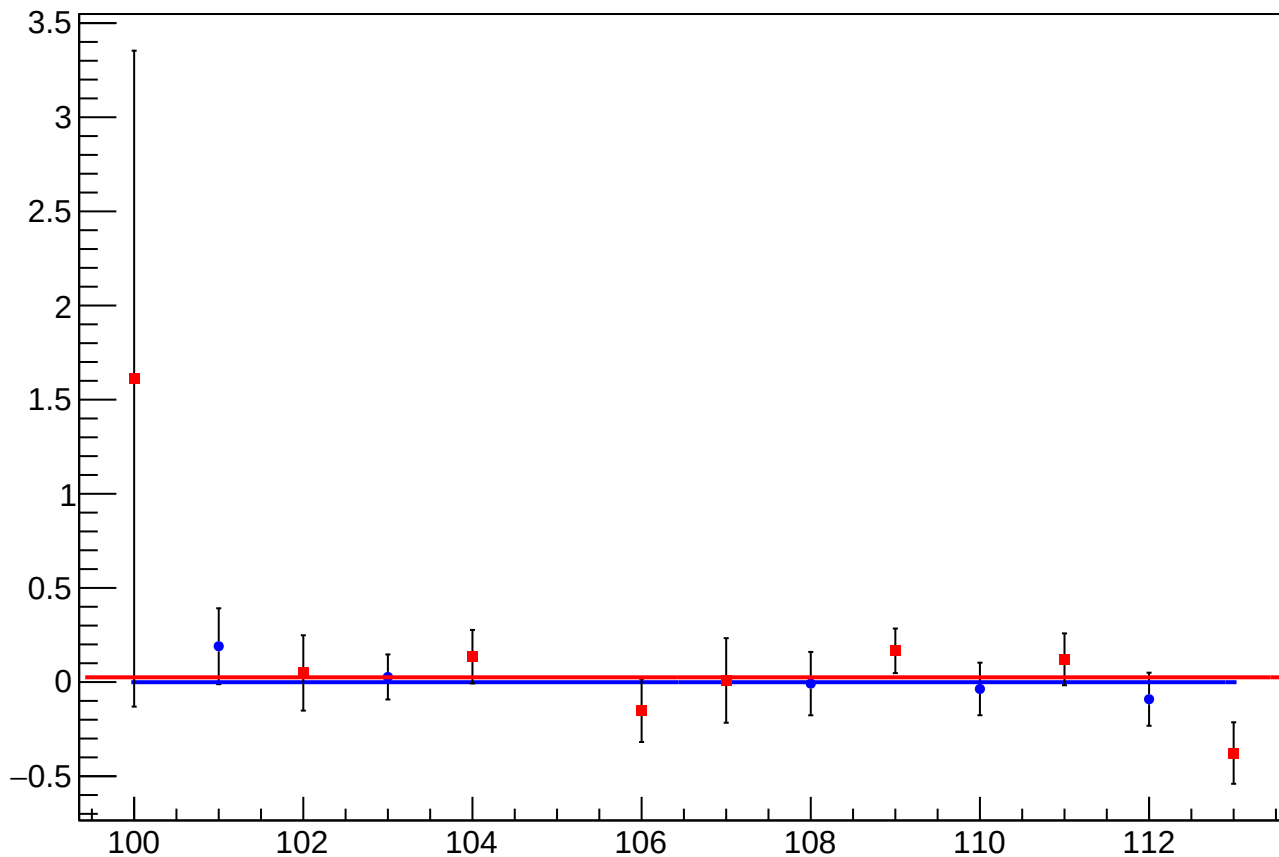
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.000  $\chi^2$ /NDF: 2362428.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.001 $\pm$ 0.066  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.025 $\pm$ 0.059  $\chi^2$ /NDF: 10.5/7

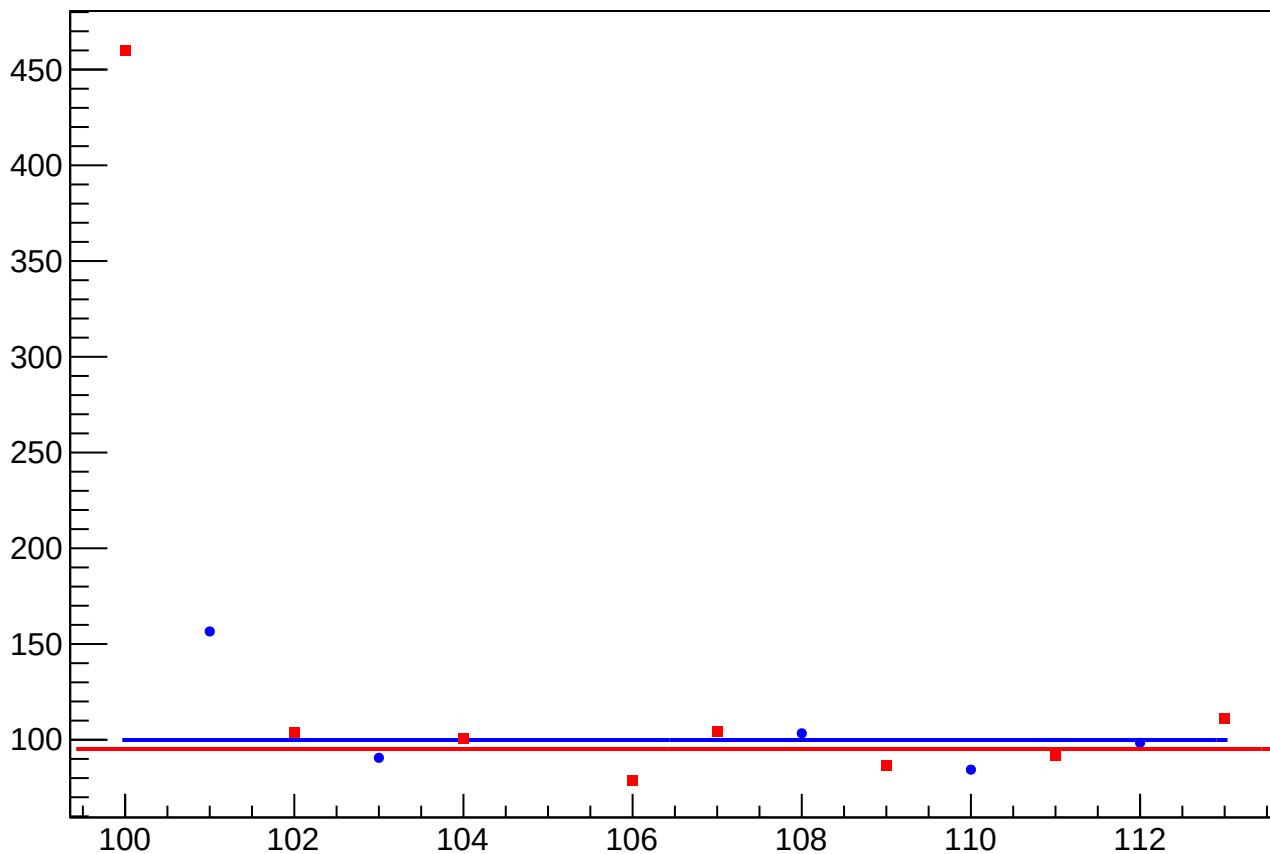
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.014 $\pm$ 0.044  $\chi^2$ /NDF: 12.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 99.881 $\pm$ 0.046  $\chi^2$ /NDF: 195970.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 95.185 $\pm$ 0.041  $\chi^2$ /NDF: 147712.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

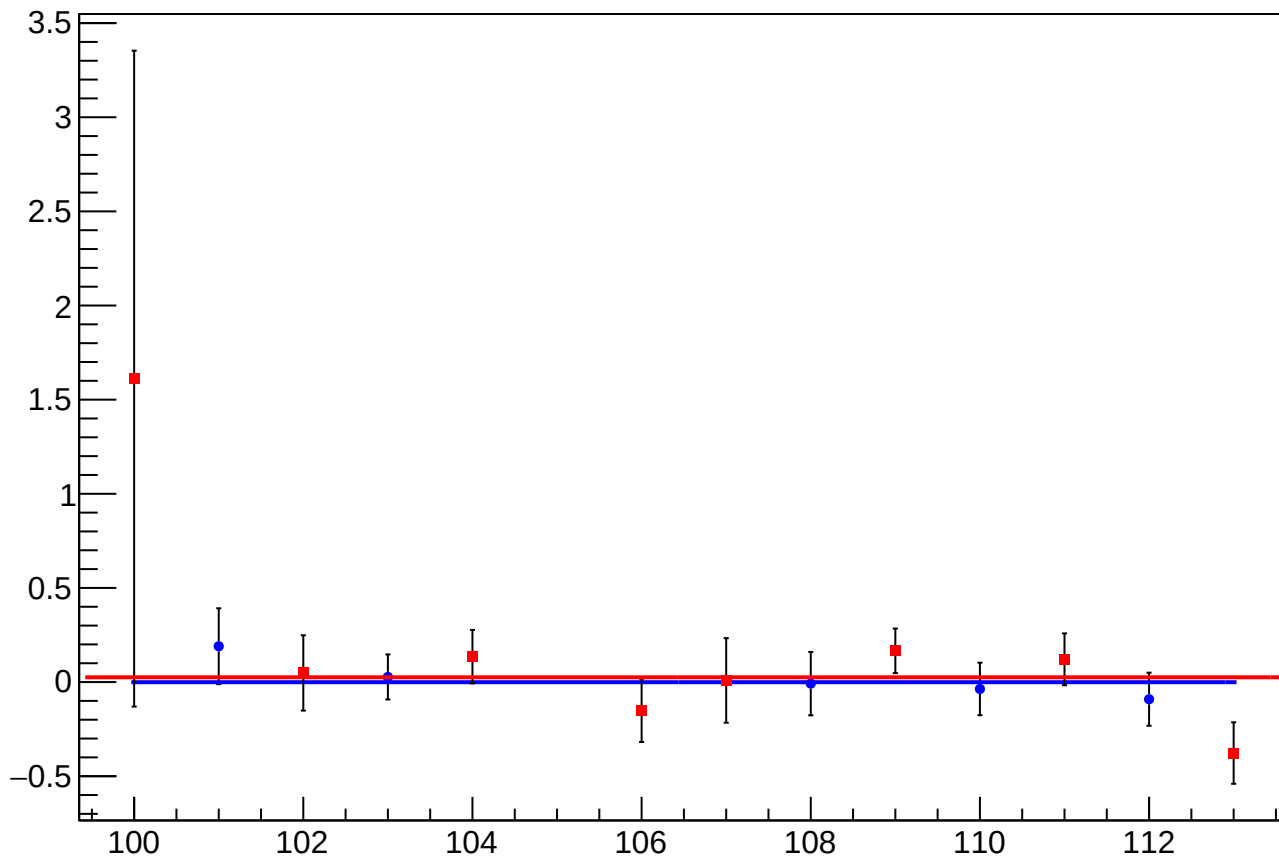
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 97.262 $\pm$ 0.031  $\chi^2$ /NDF: 349375.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.001 $\pm$ 0.066  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.025 $\pm$ 0.059  $\chi^2$ /NDF: 10.5/7

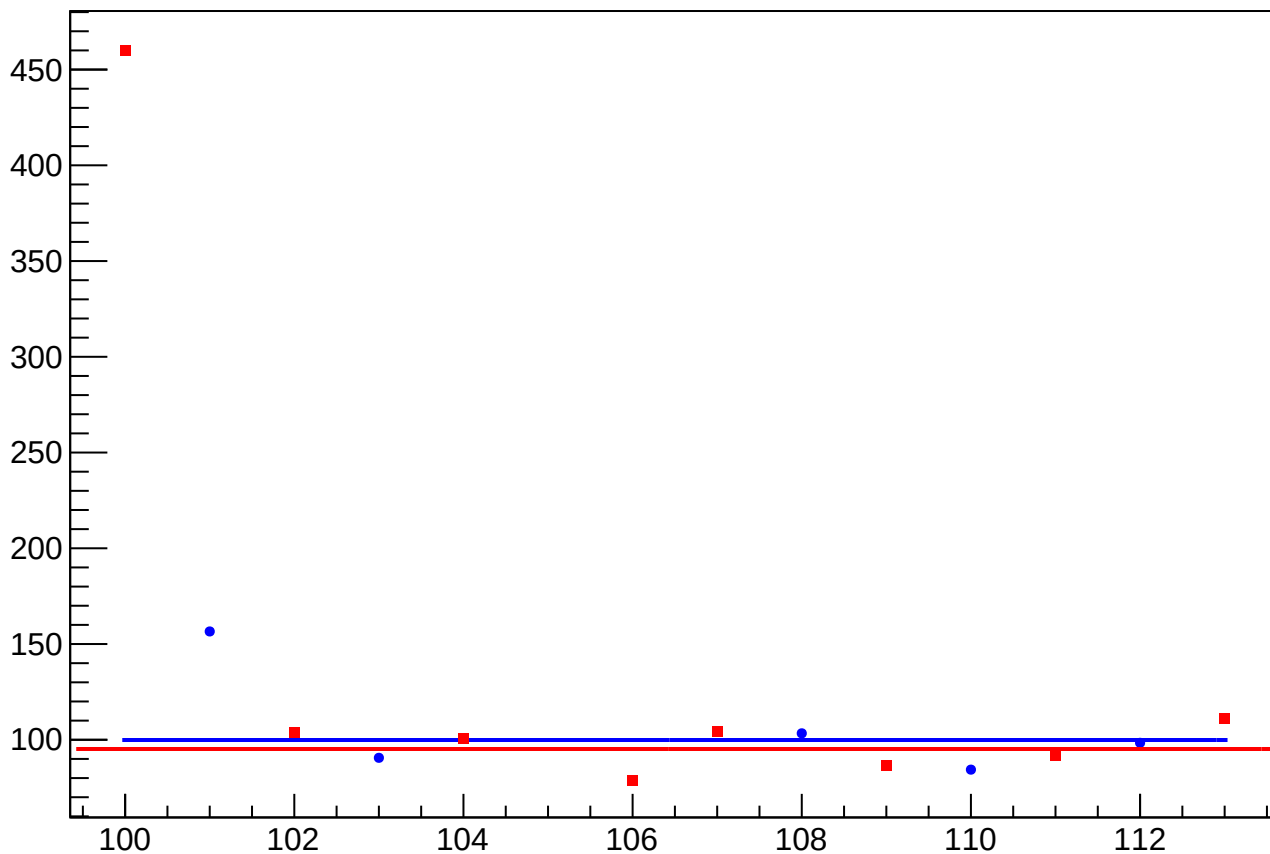
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.014 $\pm$ 0.044  $\chi^2$ /NDF: 12.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 99.881 $\pm$ 0.046  $\chi^2$ /NDF: 195970.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 95.185 $\pm$ 0.041  $\chi^2$ /NDF: 147712.8/7

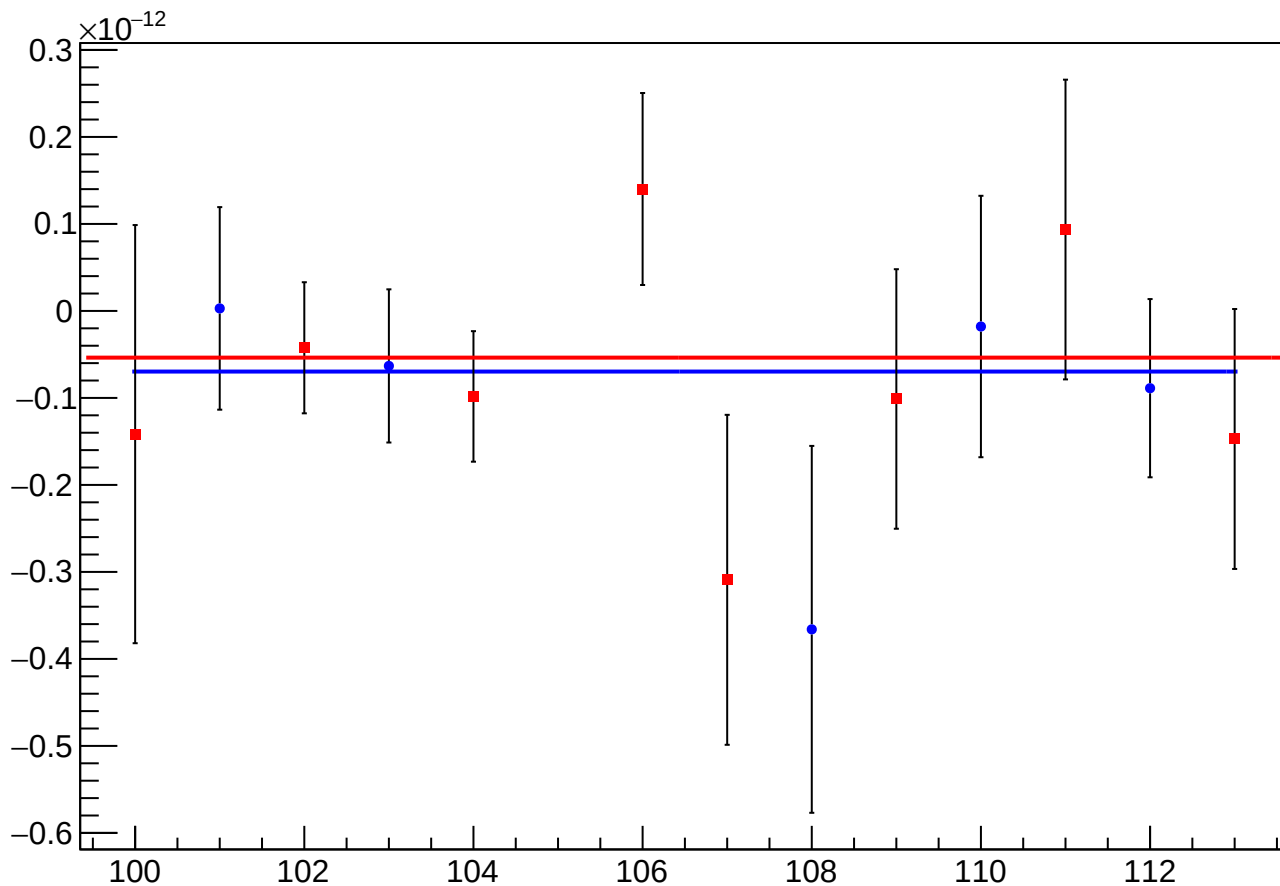
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 97.262 $\pm$ 0.031  $\chi^2$ /NDF: 349375.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.6/7

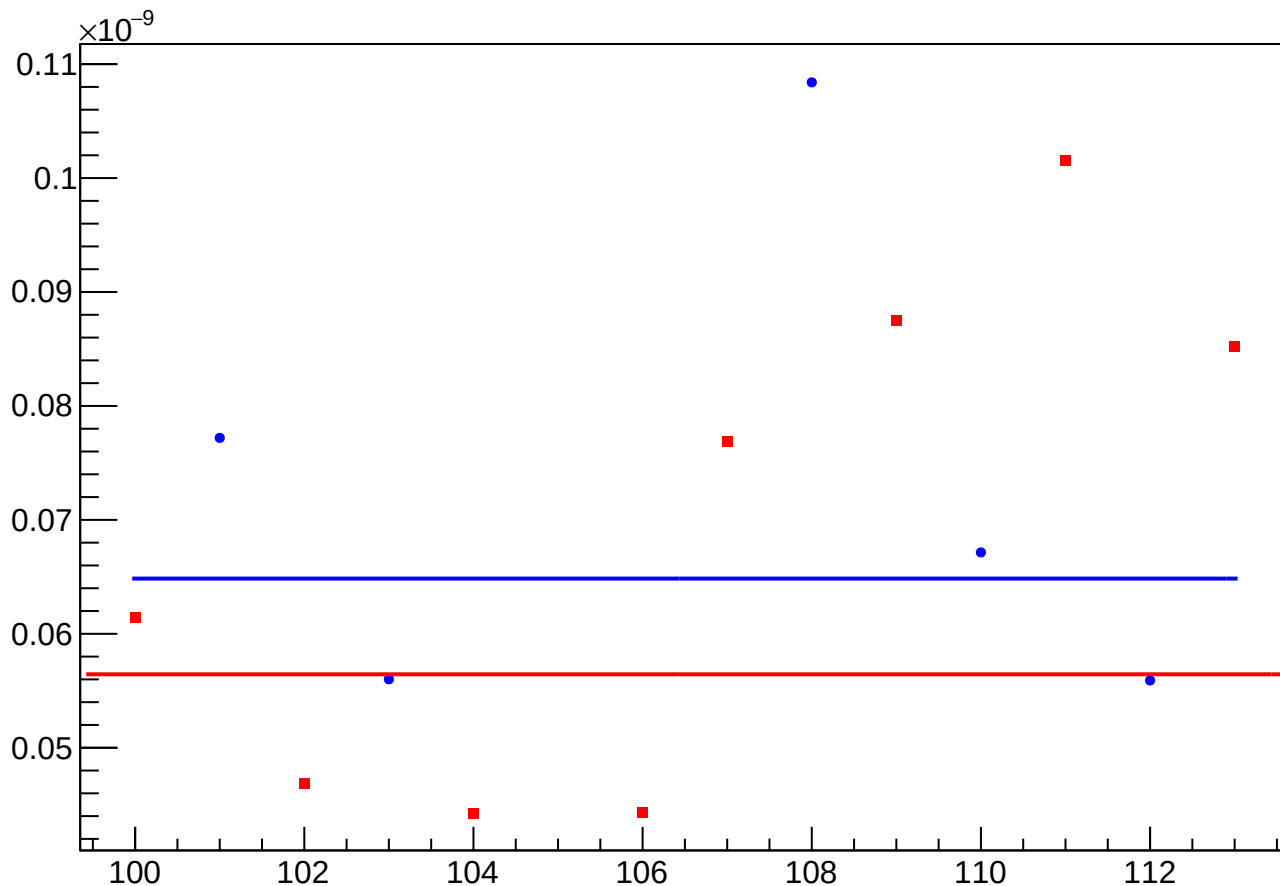
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 143675.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 430984.0/7

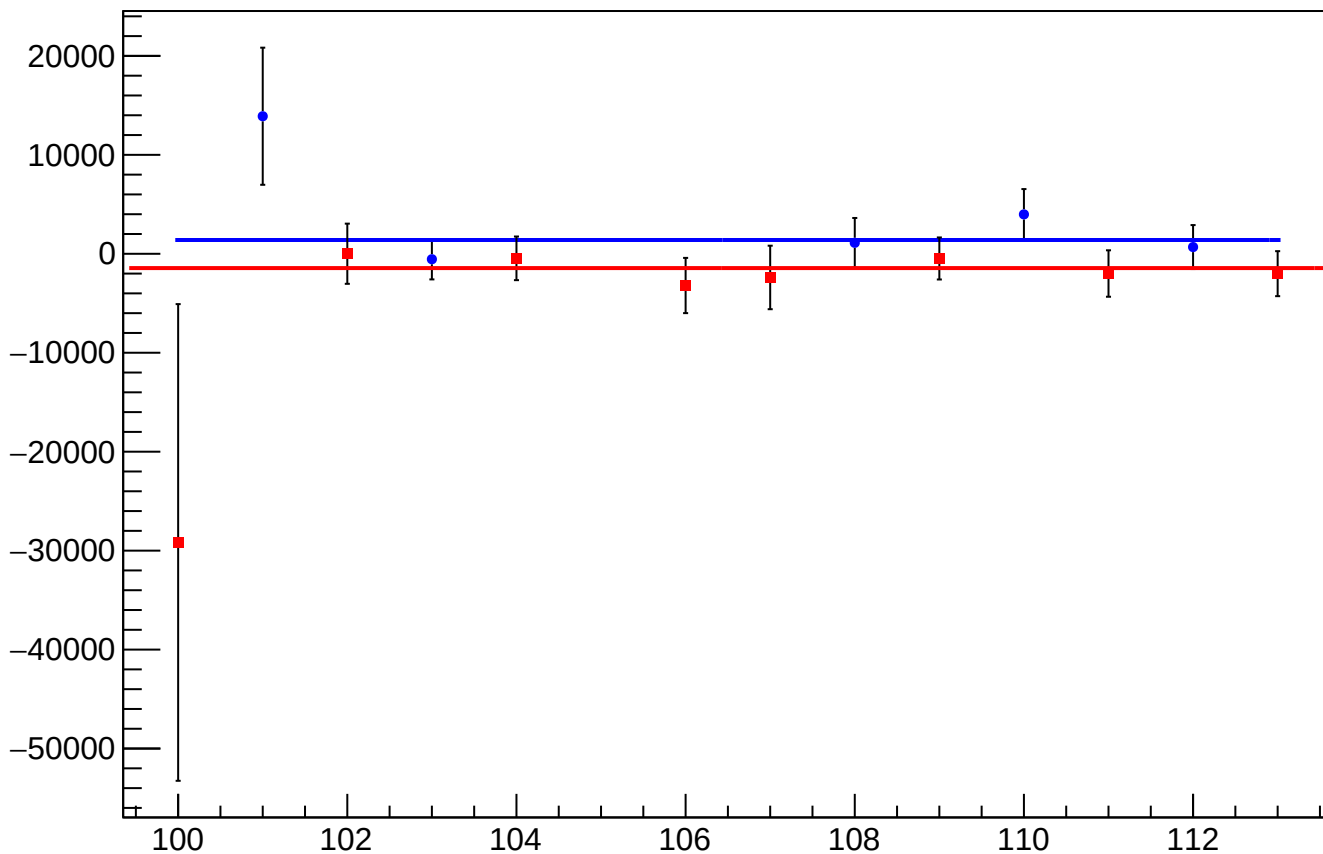
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 606780.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 1394.115 $\pm$ 1135.941  $\chi^2$ /NDF: 5.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1444.152 $\pm$ 937.600  $\chi^2$ /NDF: 2.6/7

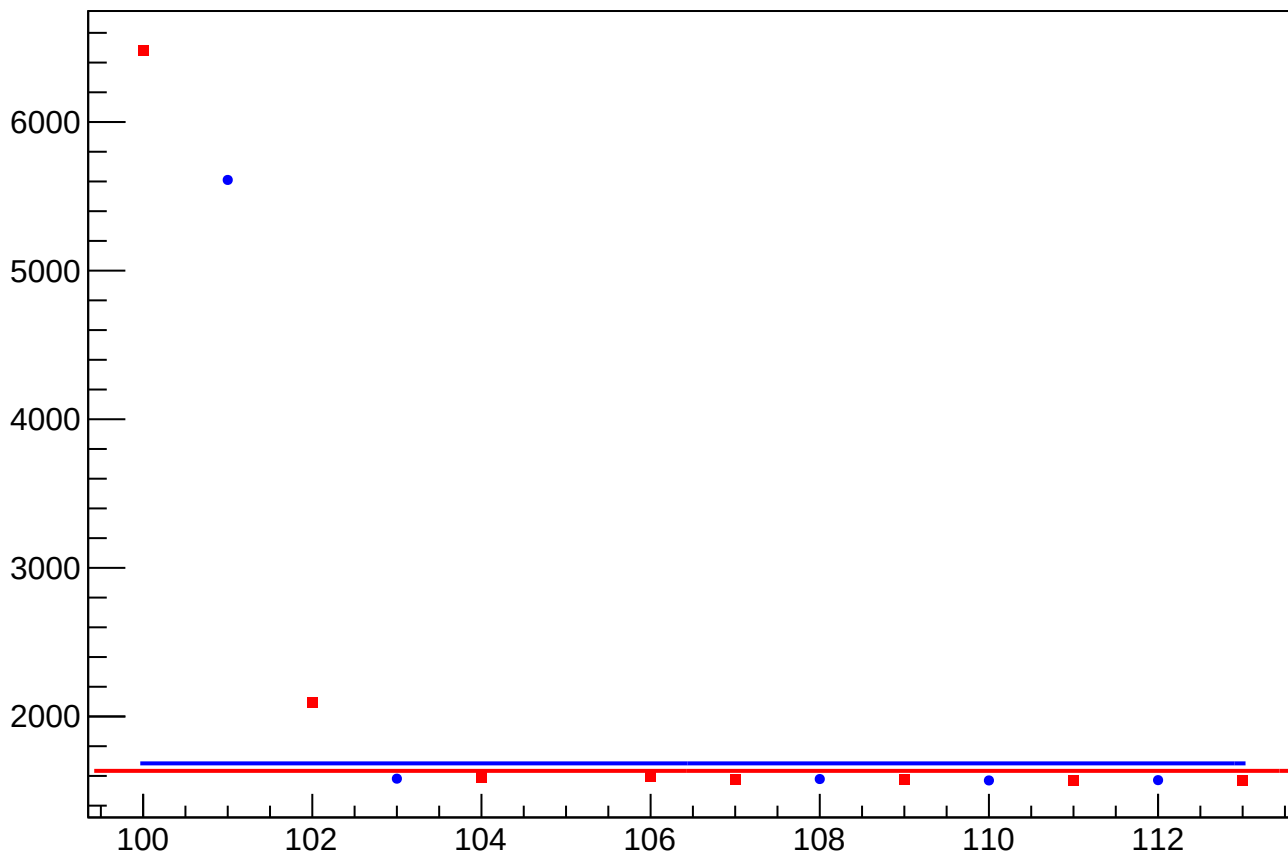
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -294.046 $\pm$ 723.100  $\chi^2$ /NDF: 11.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1684.435 $\pm$ 0.803  $\chi^2$ /NDF: 659846.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1634.073 $\pm$ 0.663  $\chi^2$ /NDF: 133811.7/7

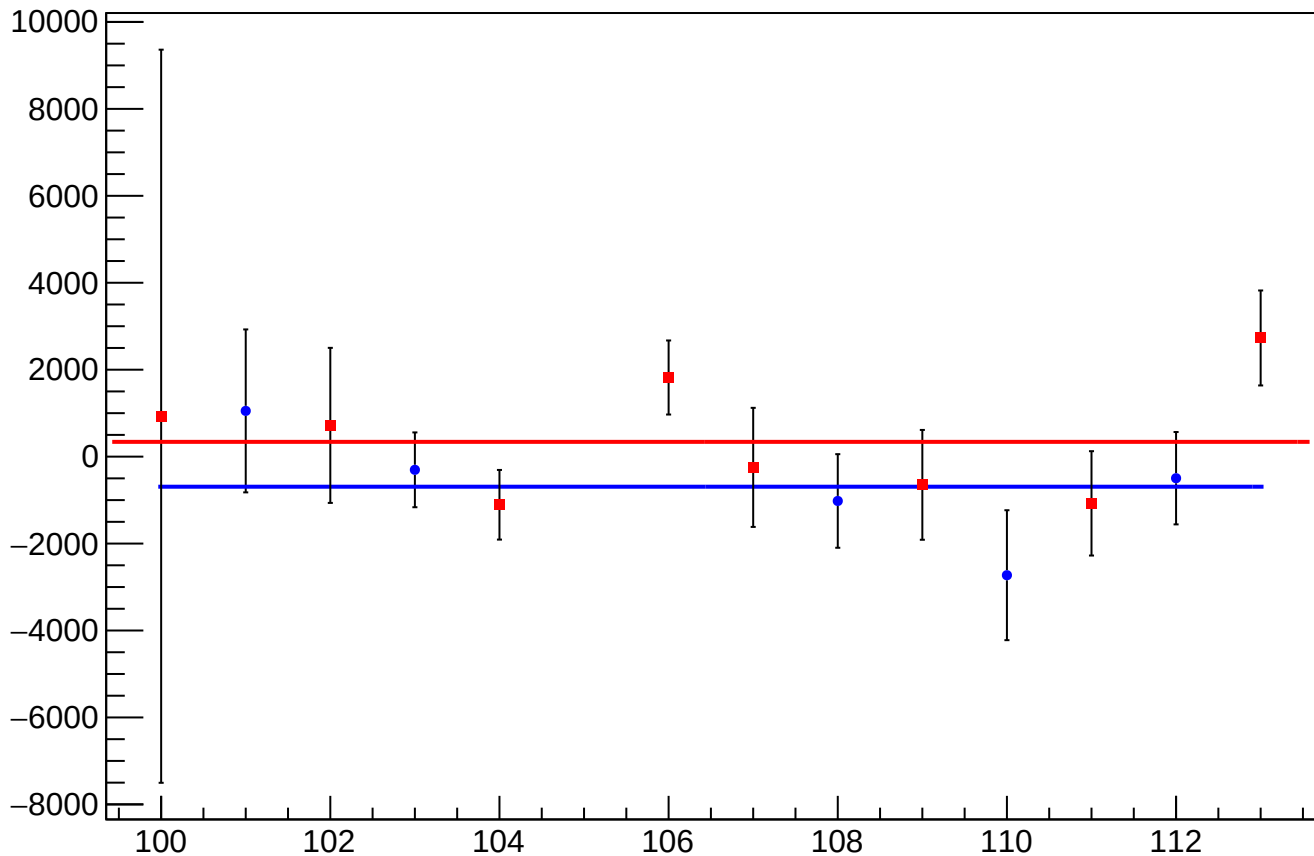
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1654.480 $\pm$ 0.511  $\chi^2$ /NDF: 795995.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_reg\_correction\_mean vs Slug



Right In: -691.872+/-510.893  $\chi^2/\text{NDF}$ : 3.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 339.943+/-409.732  $\chi^2/\text{NDF}$ : 13.3/7

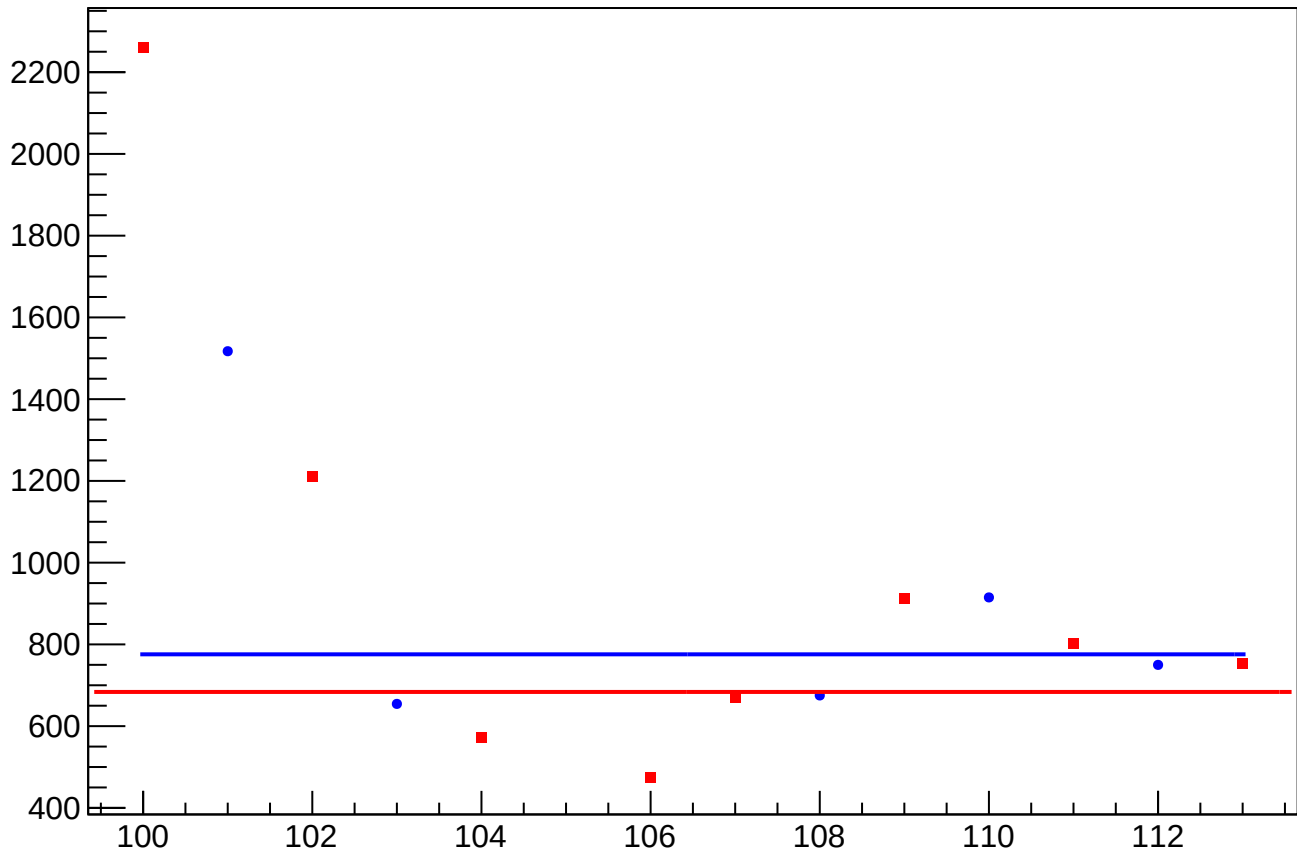
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -63.938+/-319.636  $\chi^2/\text{NDF}$ : 18.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_avg\_reg\_correction\_rms vs Slug



Right In: 775.707 $\pm$ 0.361  $\chi^2$ /NDF: 388799.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 683.678 $\pm$ 0.290  $\chi^2$ /NDF: 496876.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

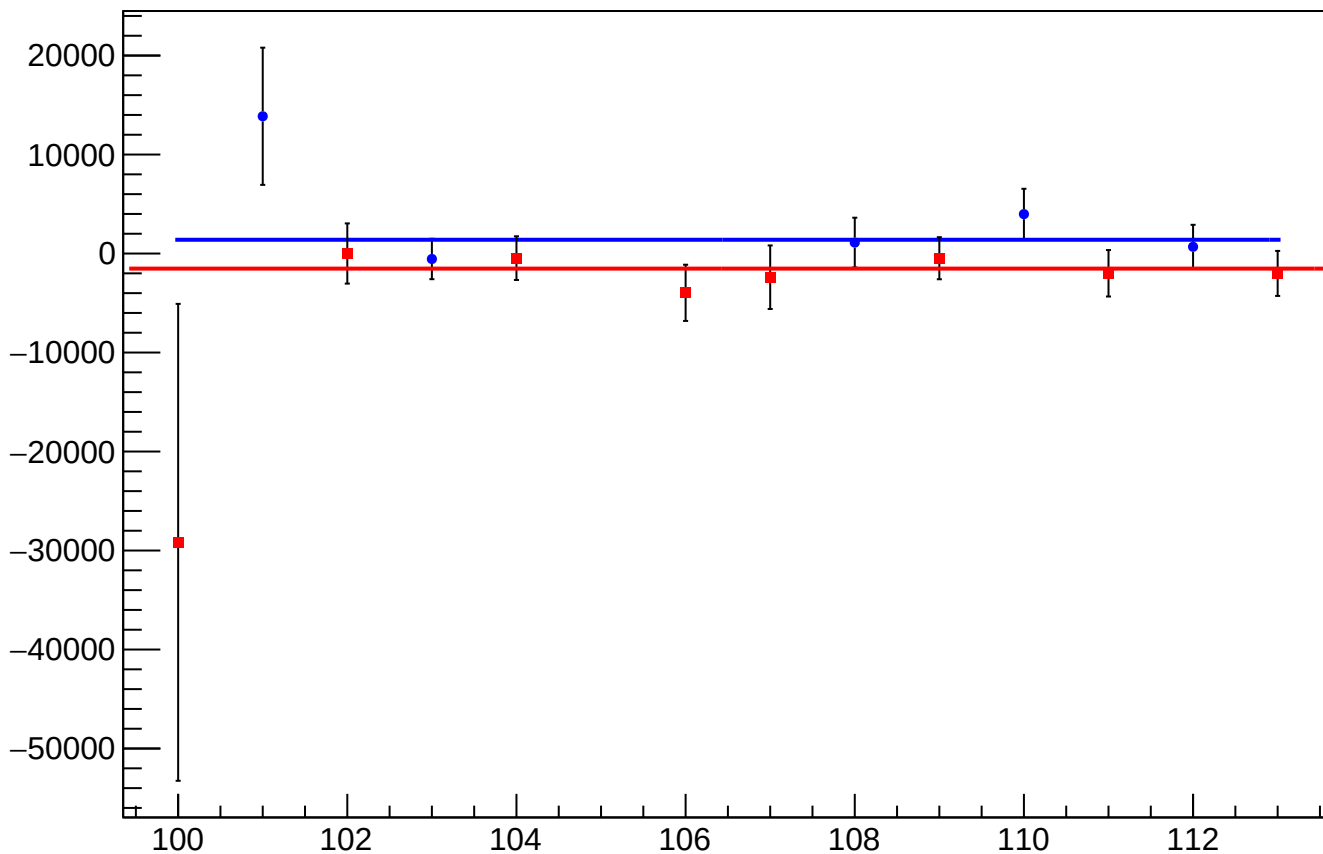
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 719.700 $\pm$ 0.226  $\chi^2$ /NDF: 925169.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# cor\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 1392.422±/-1135.942  $\chi^2/\text{NDF}$ : 5.3/4

Left Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1521.722±/-939.427  $\chi^2/\text{NDF}$ : 2.9/7

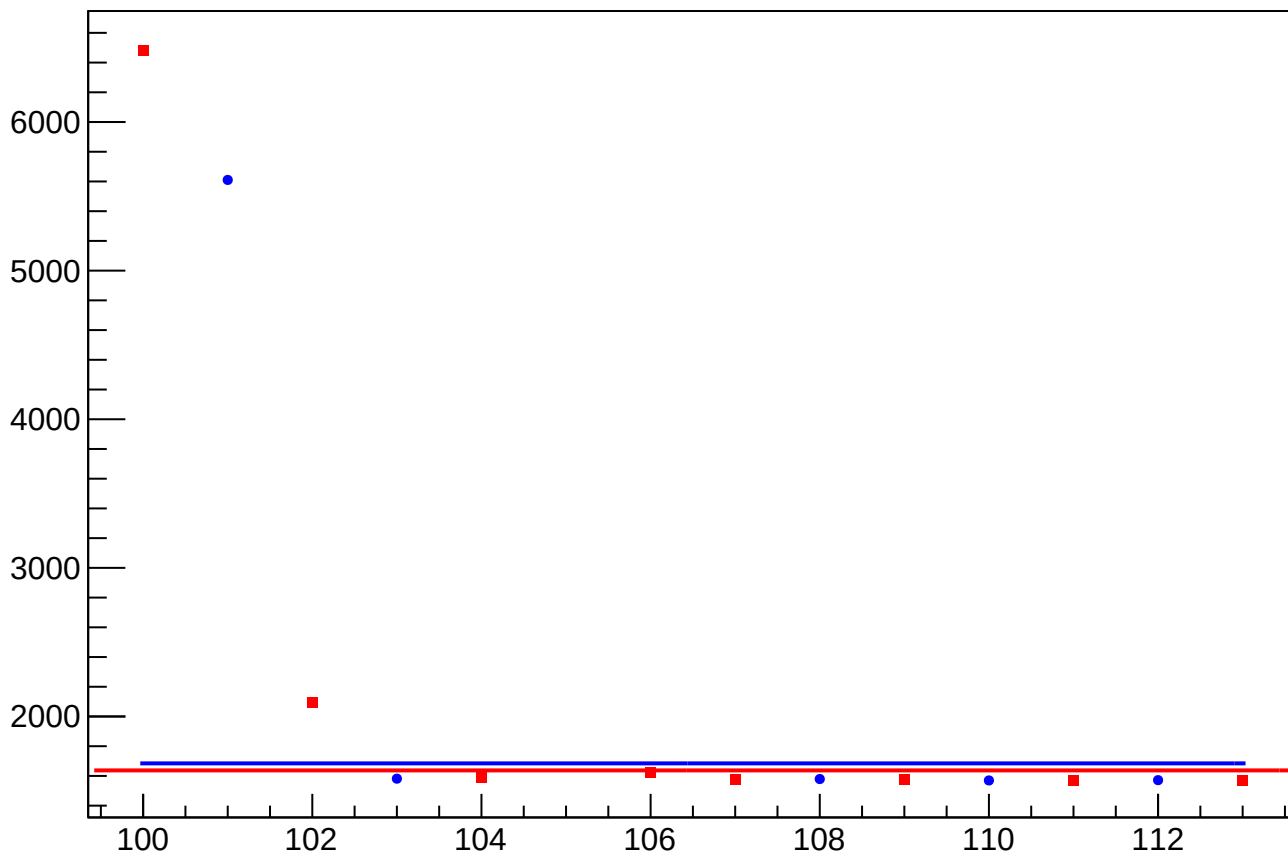
Left In: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -338.136±/-723.937  $\chi^2/\text{NDF}$ : 12.1/12

- sign 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1684.435 $\pm$ 0.803  $\chi^2$ /NDF: 659845.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1637.129 $\pm$ 0.664  $\chi^2$ /NDF: 133415.3/7

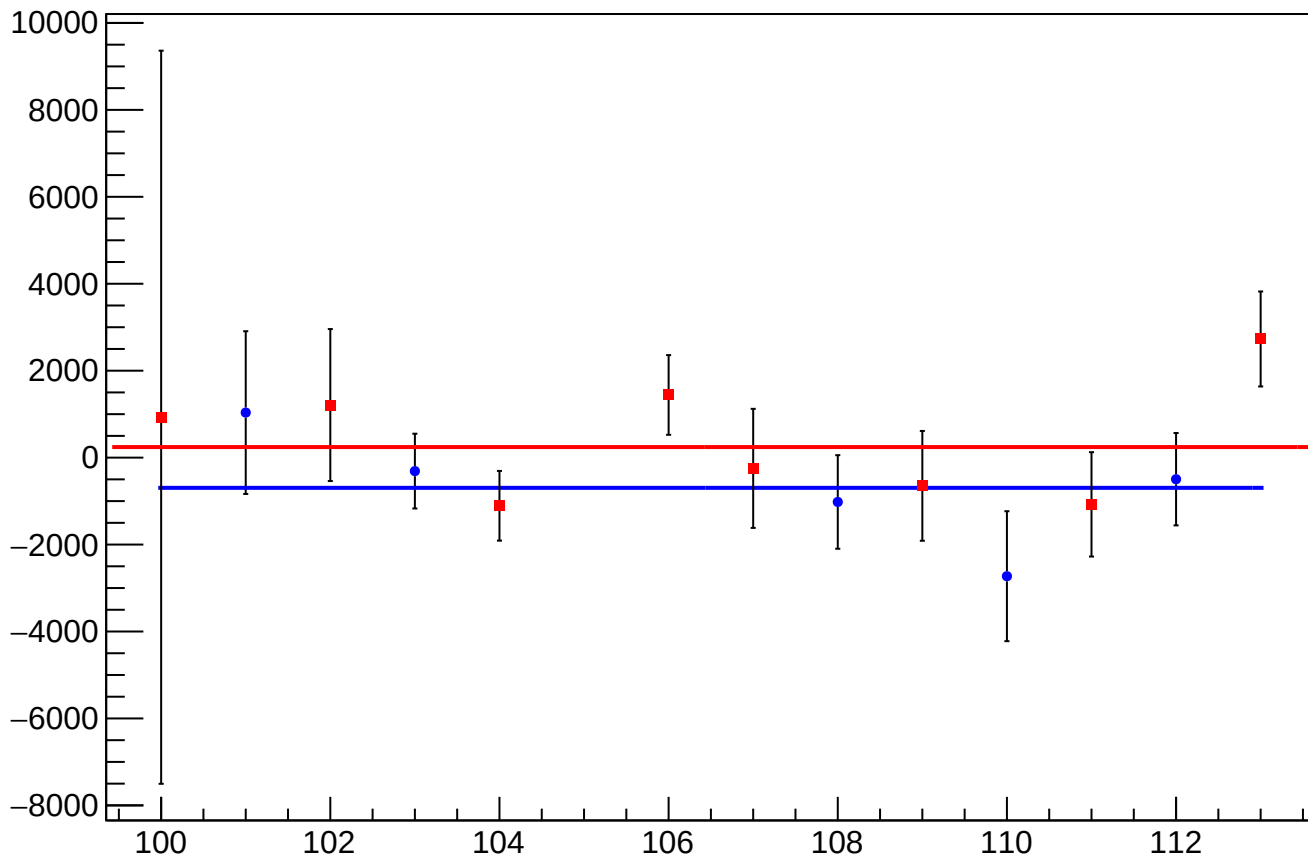
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1656.342 $\pm$ 0.512  $\chi^2$ /NDF: 795320.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_cor\_correction\_mean vs Slug



Right In: -694.805+/-510.739  $\chi^2$ /NDF: 3.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 243.142+/-416.012  $\chi^2$ /NDF: 11.9/7

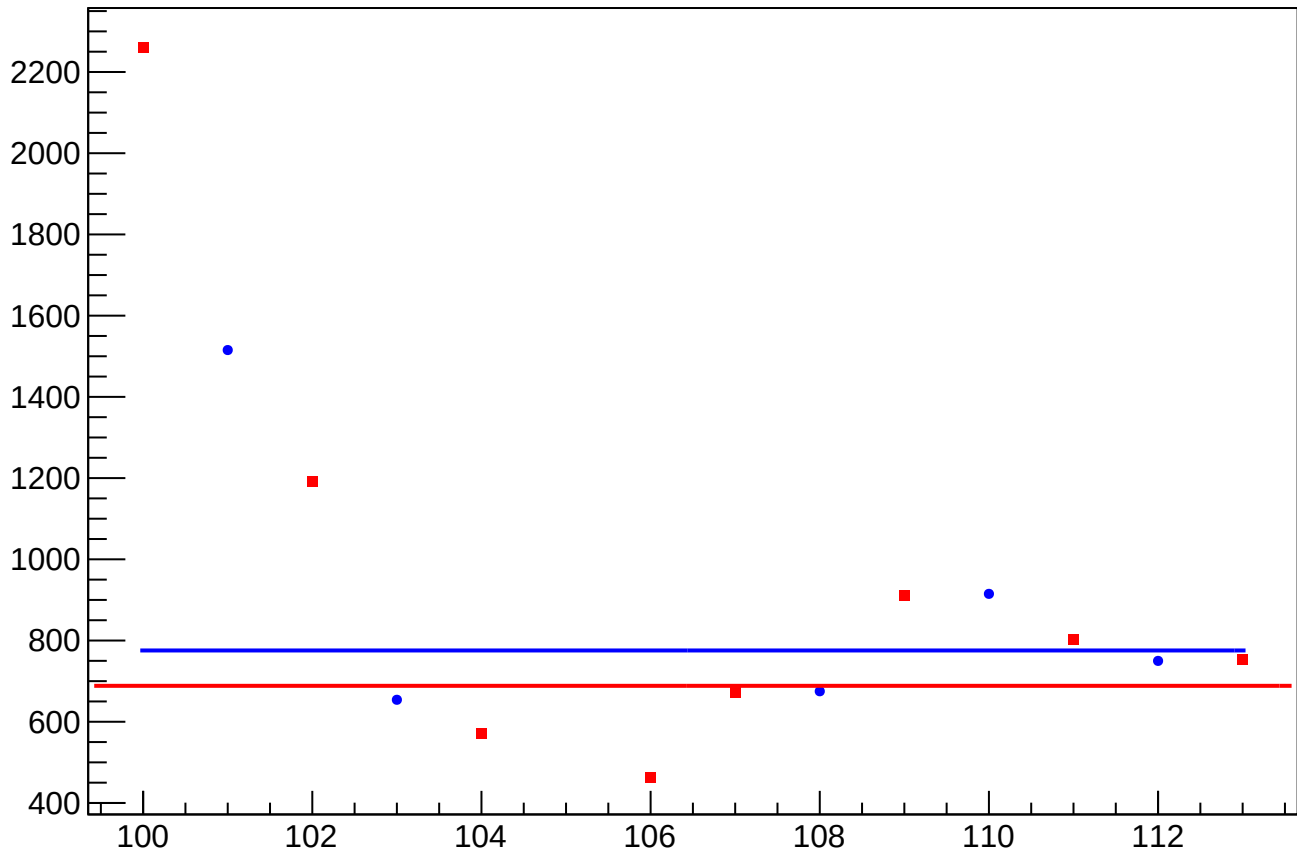
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -130.951+/-322.552  $\chi^2$ /NDF: 16.9/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr1\_avg\_cor\_correction\_rms vs Slug



Right In: 775.547 $\pm$ 0.361  $\chi^2$ /NDF: 388214.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 688.486 $\pm$ 0.294  $\chi^2$ /NDF: 485751.3/7

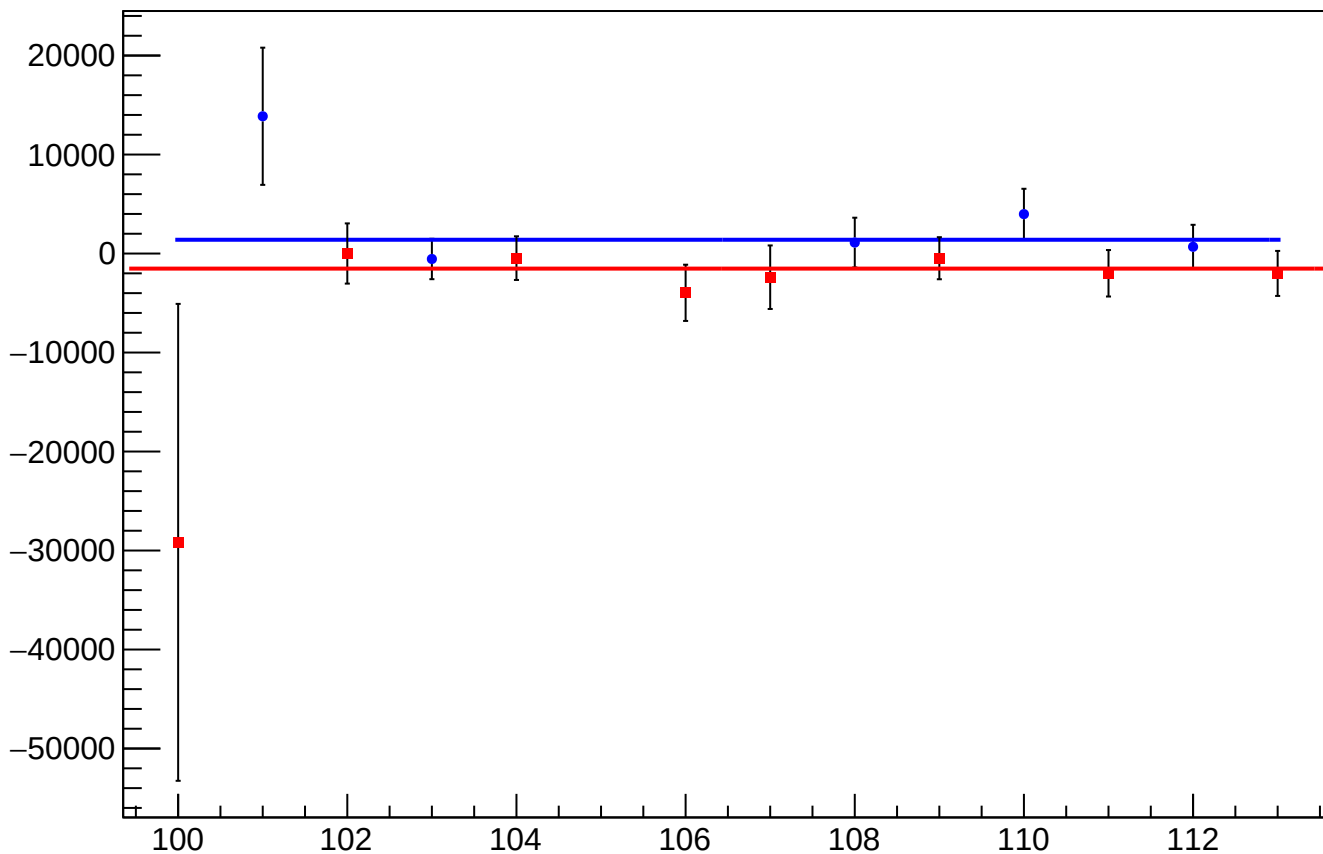
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 723.209 $\pm$ 0.228  $\chi^2$ /NDF: 908900.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 1392.422+/-1135.942  $\chi^2/\text{NDF}$ : 5.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1521.722+/-939.427  $\chi^2/\text{NDF}$ : 2.9/7

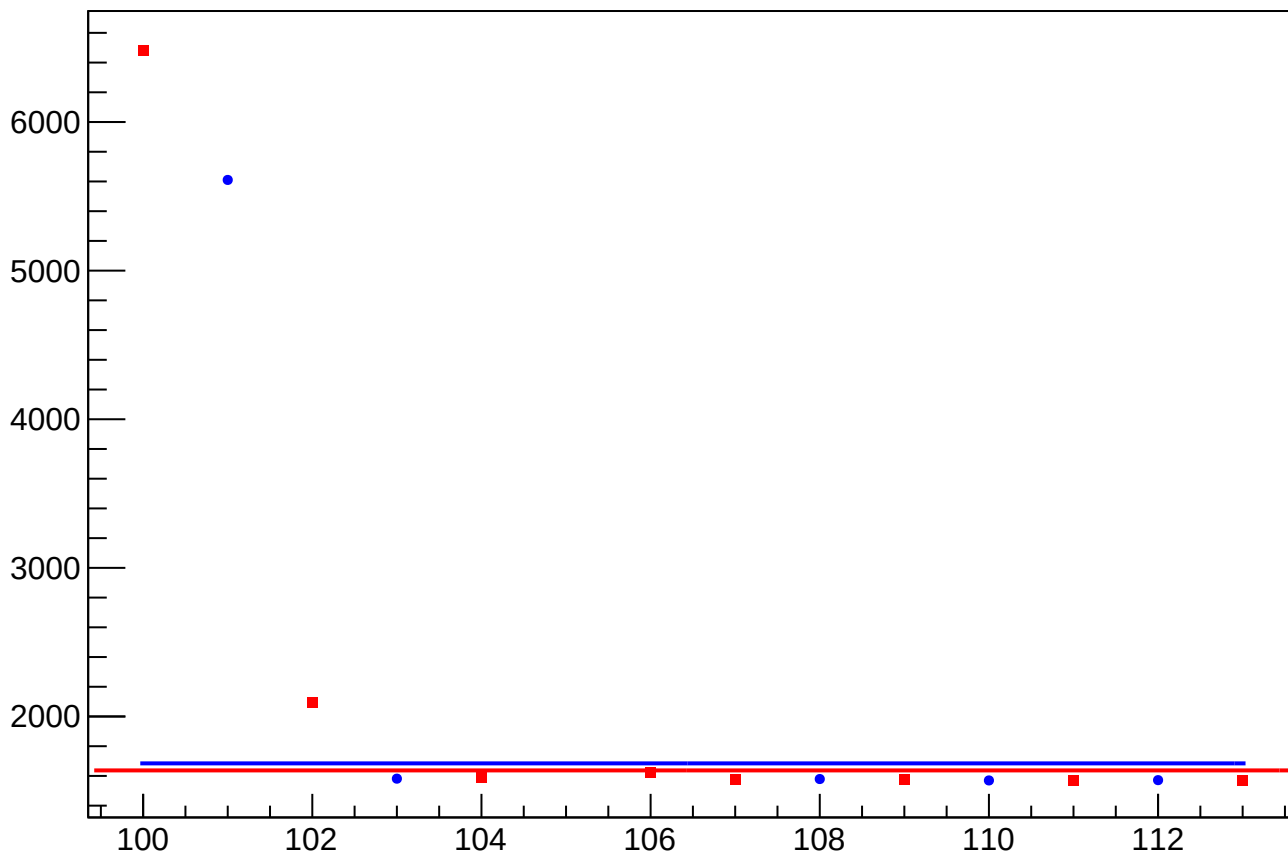
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -338.136+/-723.937  $\chi^2/\text{NDF}$ : 12.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1684.435+/-0.803  $\chi^2/\text{NDF}$ : 659845.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1637.129+/-0.664  $\chi^2/\text{NDF}$ : 133415.3/7

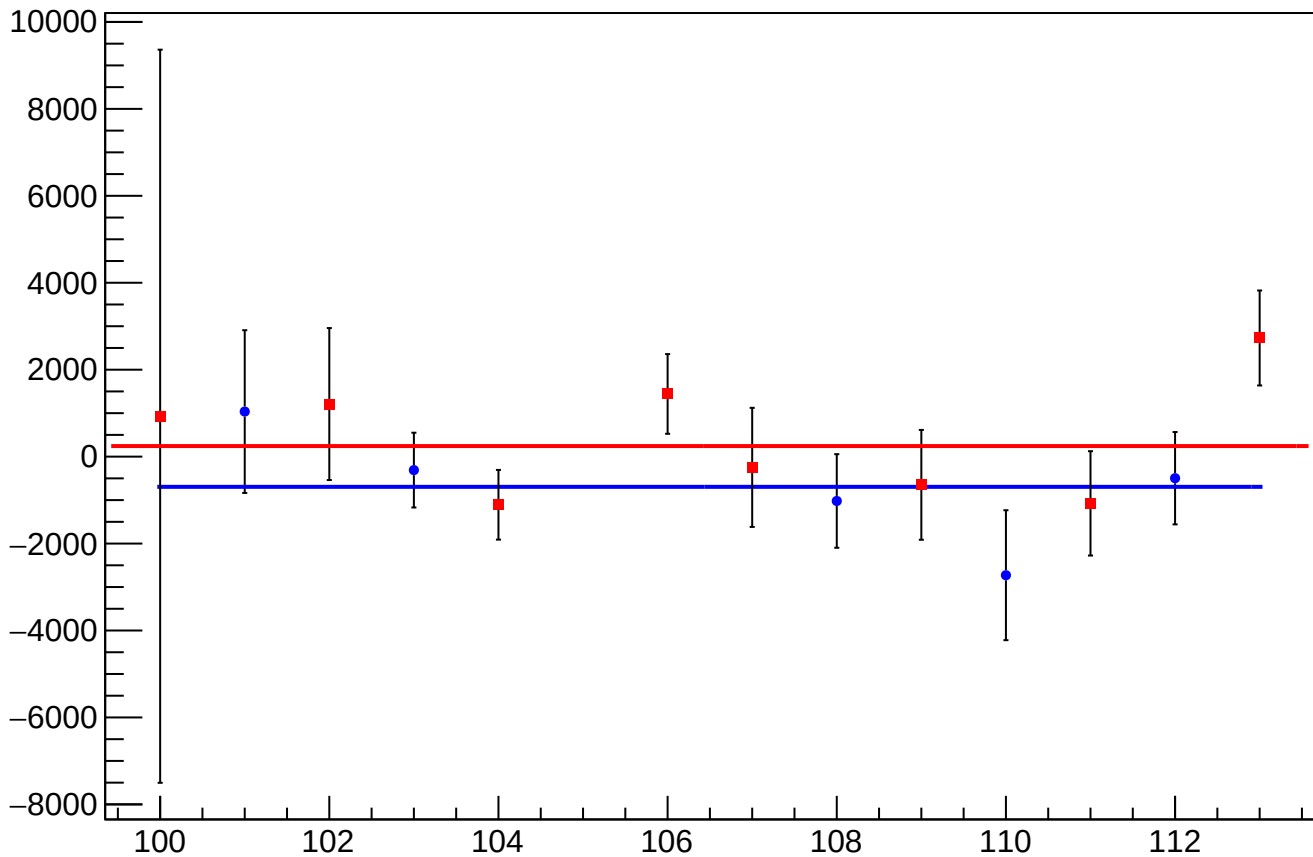
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1656.342+/-0.512  $\chi^2/\text{NDF}$ : 795320.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -694.805+/-510.739  $\chi^2/\text{NDF}$ : 3.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 243.142+/-416.012  $\chi^2/\text{NDF}$ : 11.9/7

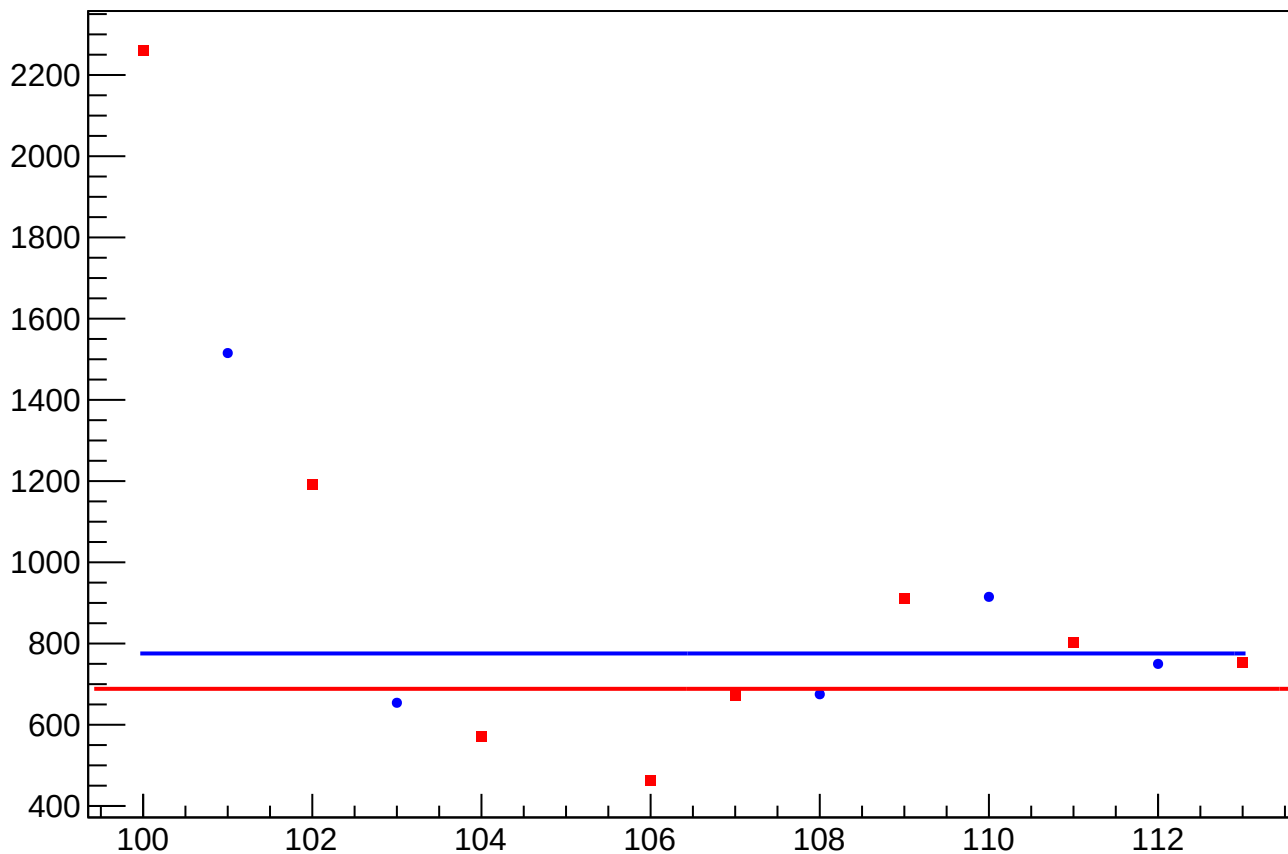
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -130.951+/-322.552  $\chi^2/\text{NDF}$ : 16.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 775.547+/-0.361  $\chi^2/\text{NDF}$ : 388214.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 688.486+/-0.294  $\chi^2/\text{NDF}$ : 485751.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

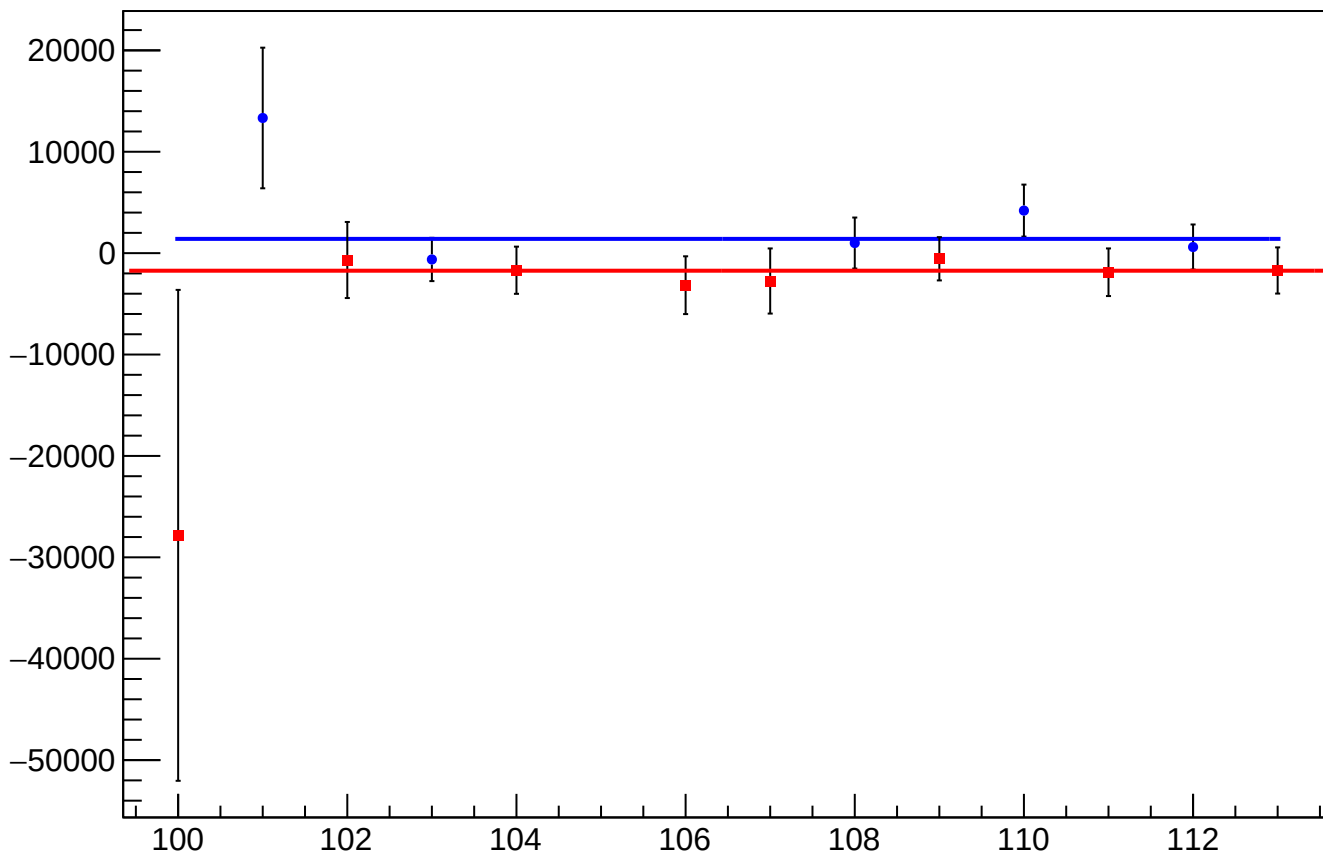
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 723.209+/-0.228  $\chi^2/\text{NDF}$ : 908900.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 1406.572 $\pm$ 1152.391  $\chi^2$ /NDF: 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1732.221 $\pm$ 966.225  $\chi^2$ /NDF: 1.9/7

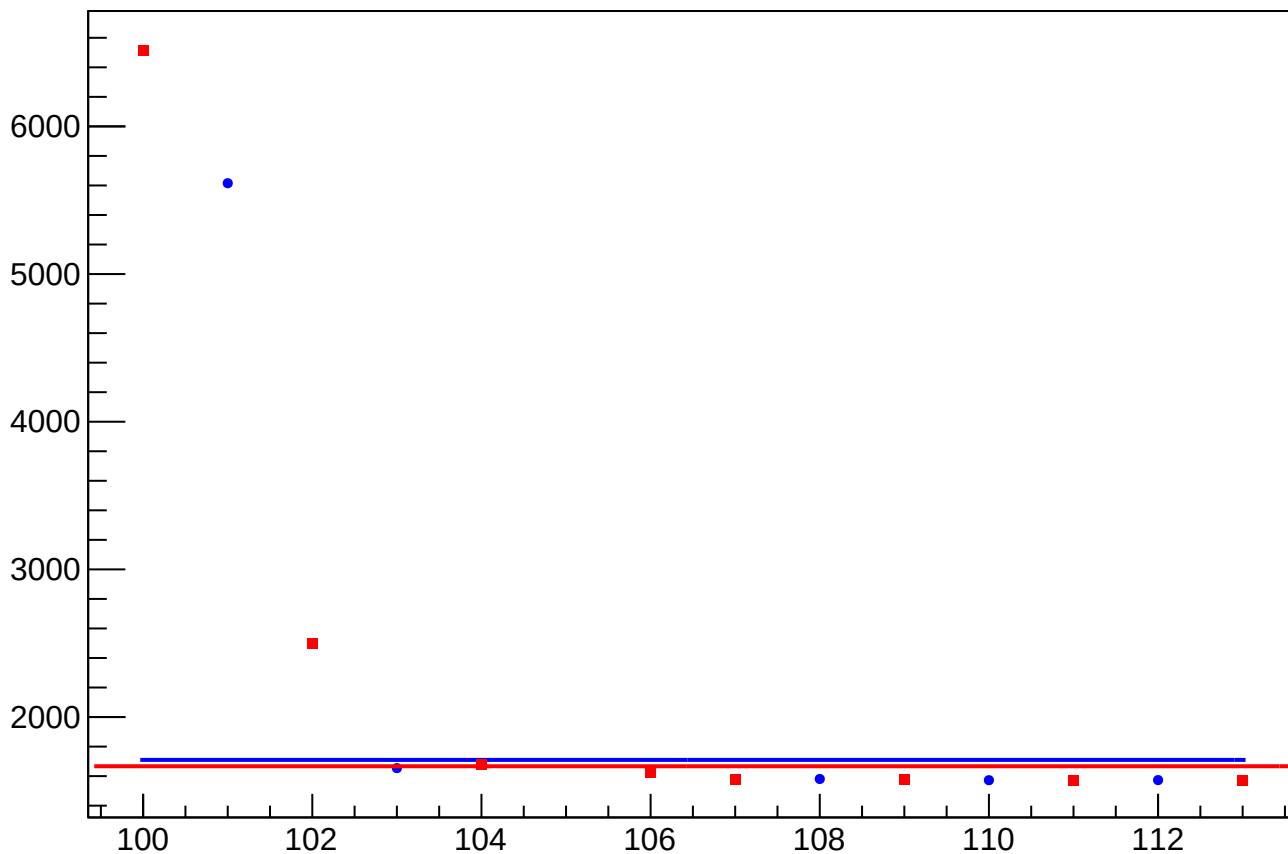
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -436.522 $\pm$ 740.407  $\chi^2$ /NDF: 11.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1709.859+/-0.815  $\chi^2/\text{NDF}$ : 654223.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1666.890+/-0.683  $\chi^2/\text{NDF}$ : 190237.6/7

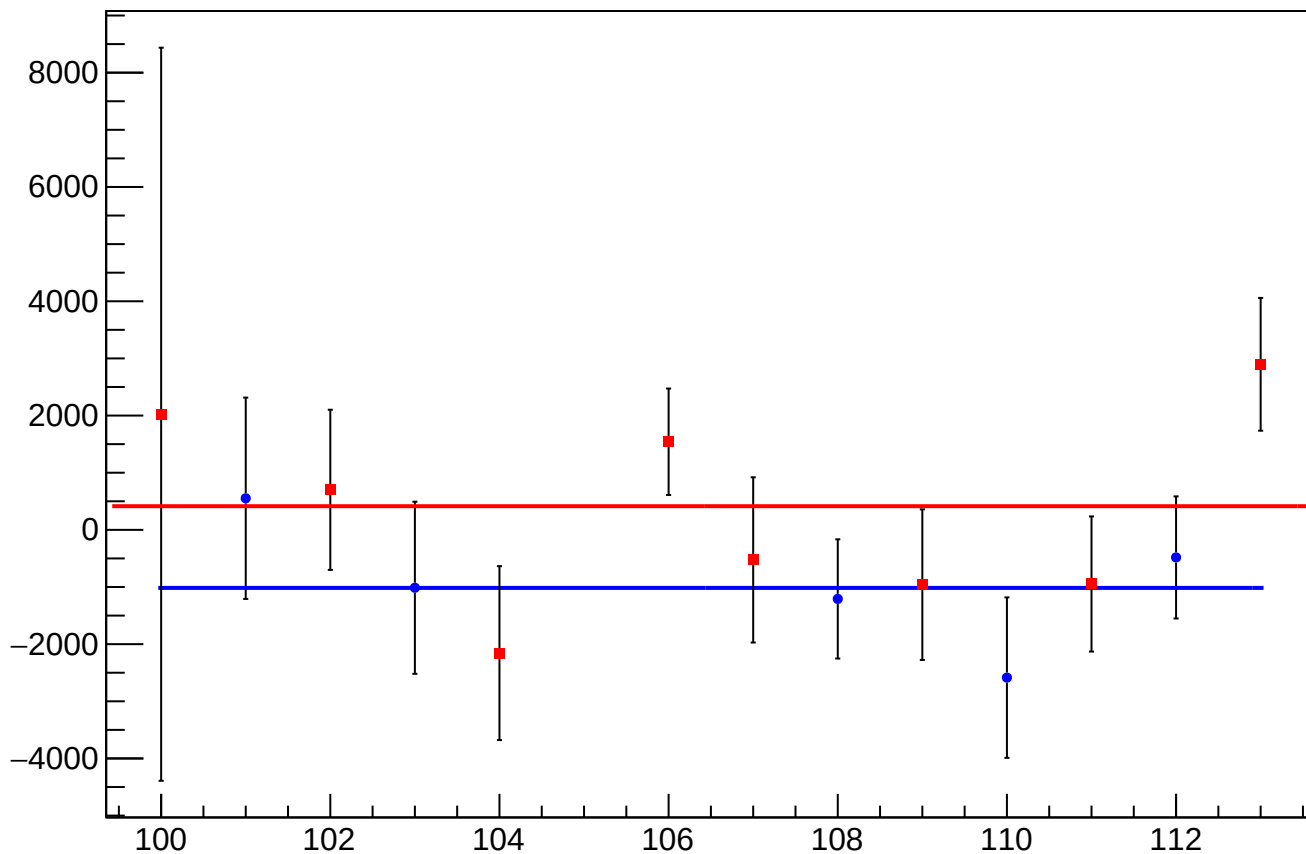
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1684.627+/-0.524  $\chi^2/\text{NDF}$ : 846093.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_avg\_dit\_correction\_mean vs Slug



Right In: -1015.758 $\pm$ 571.141  $\chi^2$ /NDF: 2.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 414.063 $\pm$ 464.760  $\chi^2$ /NDF: 11.8/7

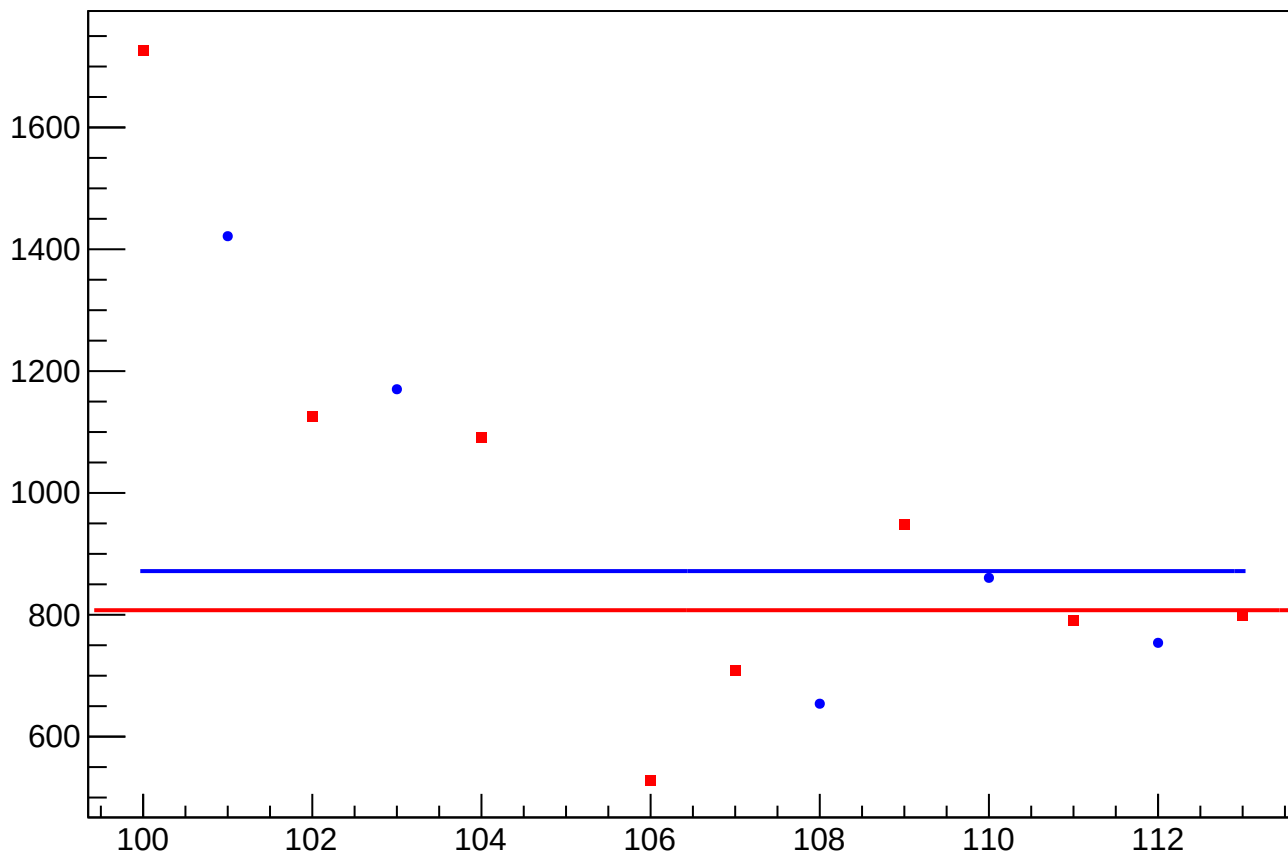
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -155.547 $\pm$ 360.488  $\chi^2$ /NDF: 17.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr1\_avg\_dit\_correction\_rms vs Slug



Right In: 871.718+/-0.404  $\chi^2/\text{NDF}$ : 384903.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 807.514+/-0.329  $\chi^2/\text{NDF}$ : 426413.6/7

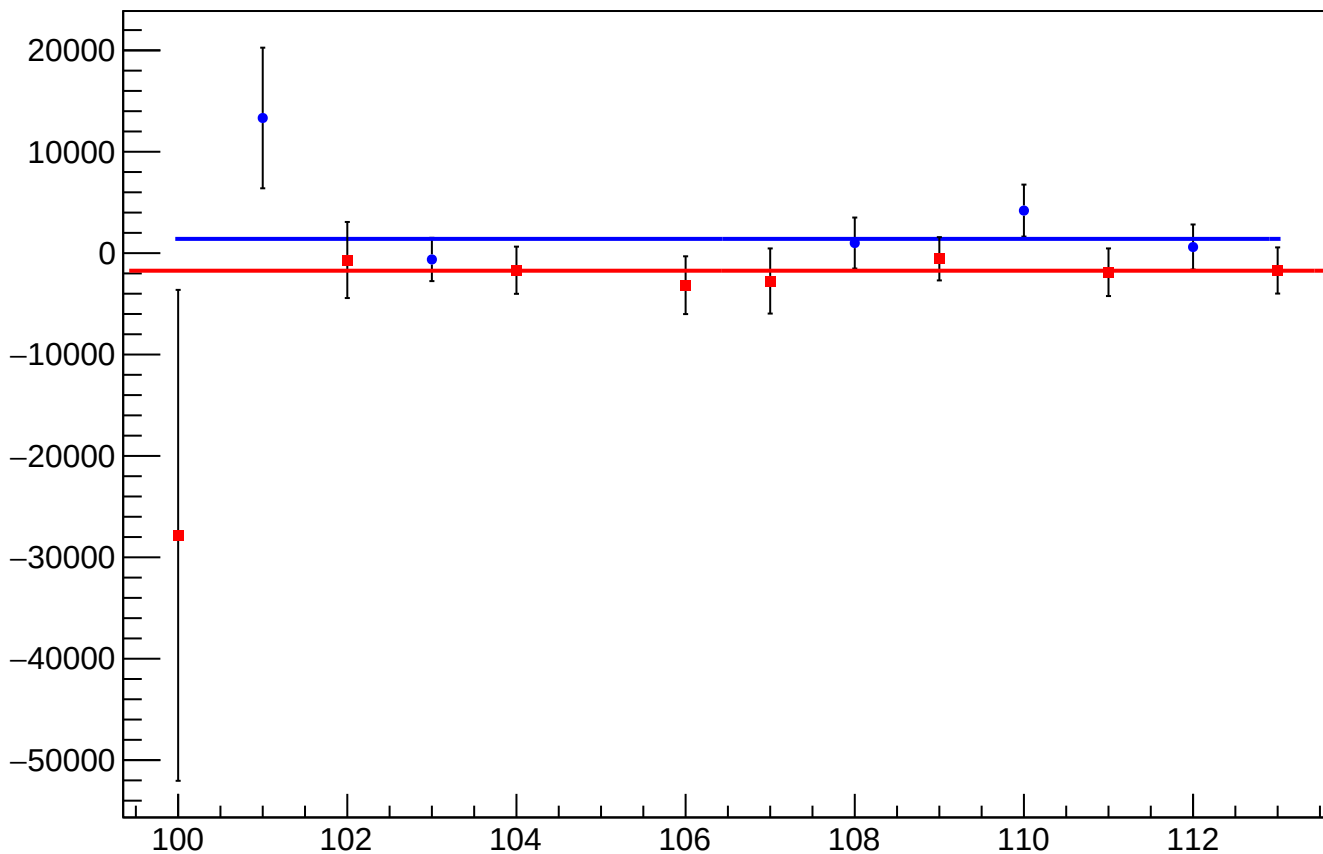
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 833.092+/-0.255  $\chi^2/\text{NDF}$ : 826522.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 1406.575 $\pm$ 1152.391  $\chi^2$ /NDF: 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1732.220 $\pm$ 966.225  $\chi^2$ /NDF: 1.9/7

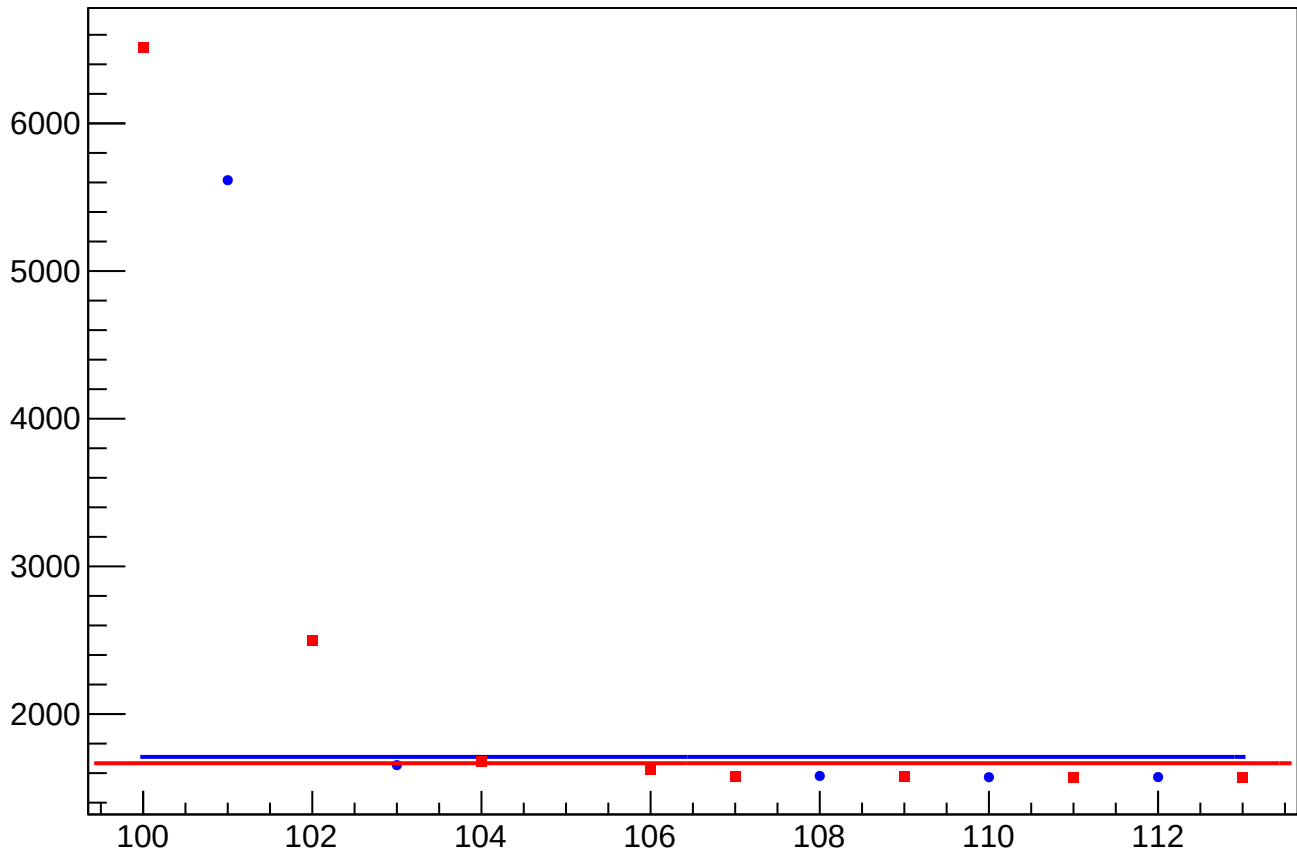
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -436.521 $\pm$ 740.407  $\chi^2$ /NDF: 11.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1709.858 $\pm$ 0.815  $\chi^2$ /NDF: 654223.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1666.890 $\pm$ 0.683  $\chi^2$ /NDF: 190237.4/7

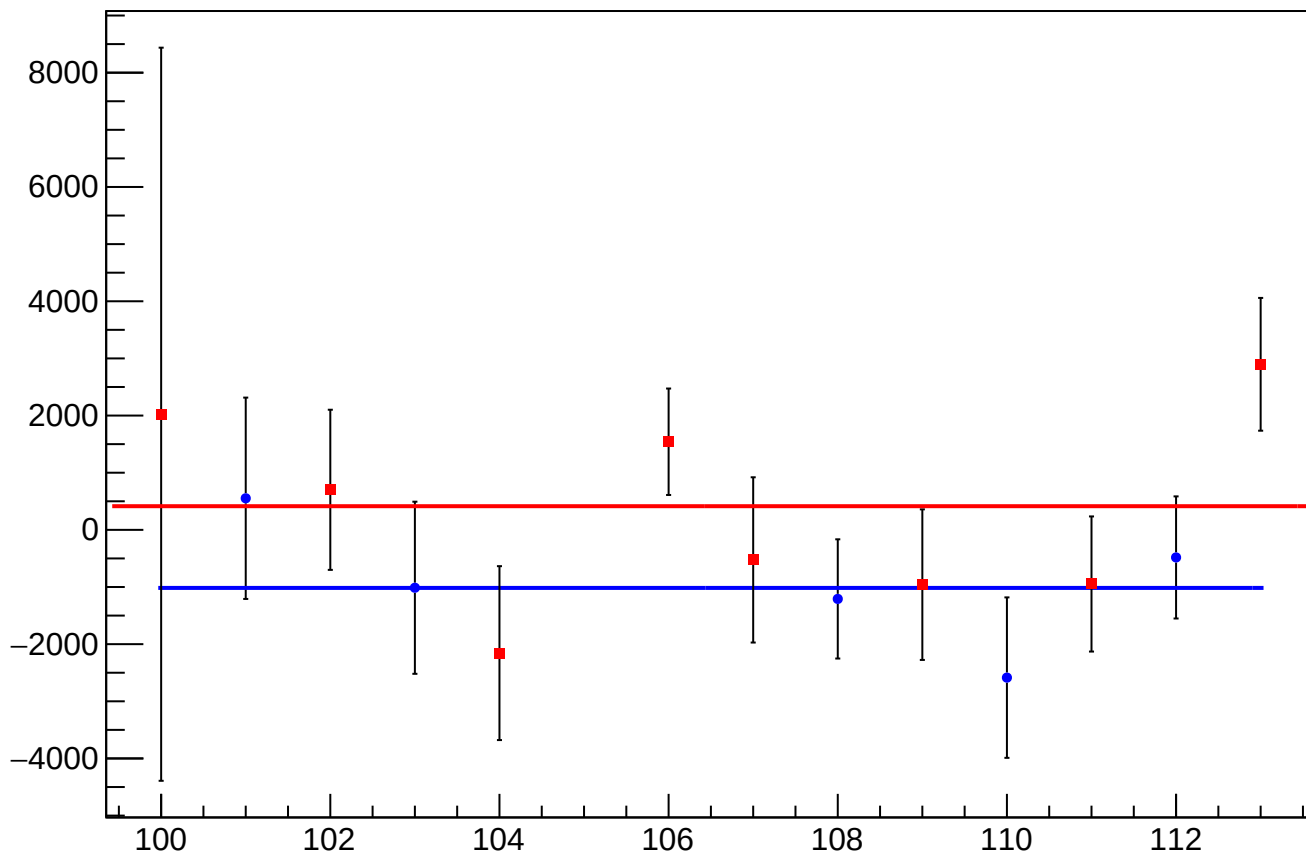
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1684.627 $\pm$ 0.524  $\chi^2$ /NDF: 846093.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In:  $-1015.755 \pm 571.138$   $\chi^2/\text{NDF}$ : 2.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $414.064 \pm 464.759$   $\chi^2/\text{NDF}$ : 11.8/7

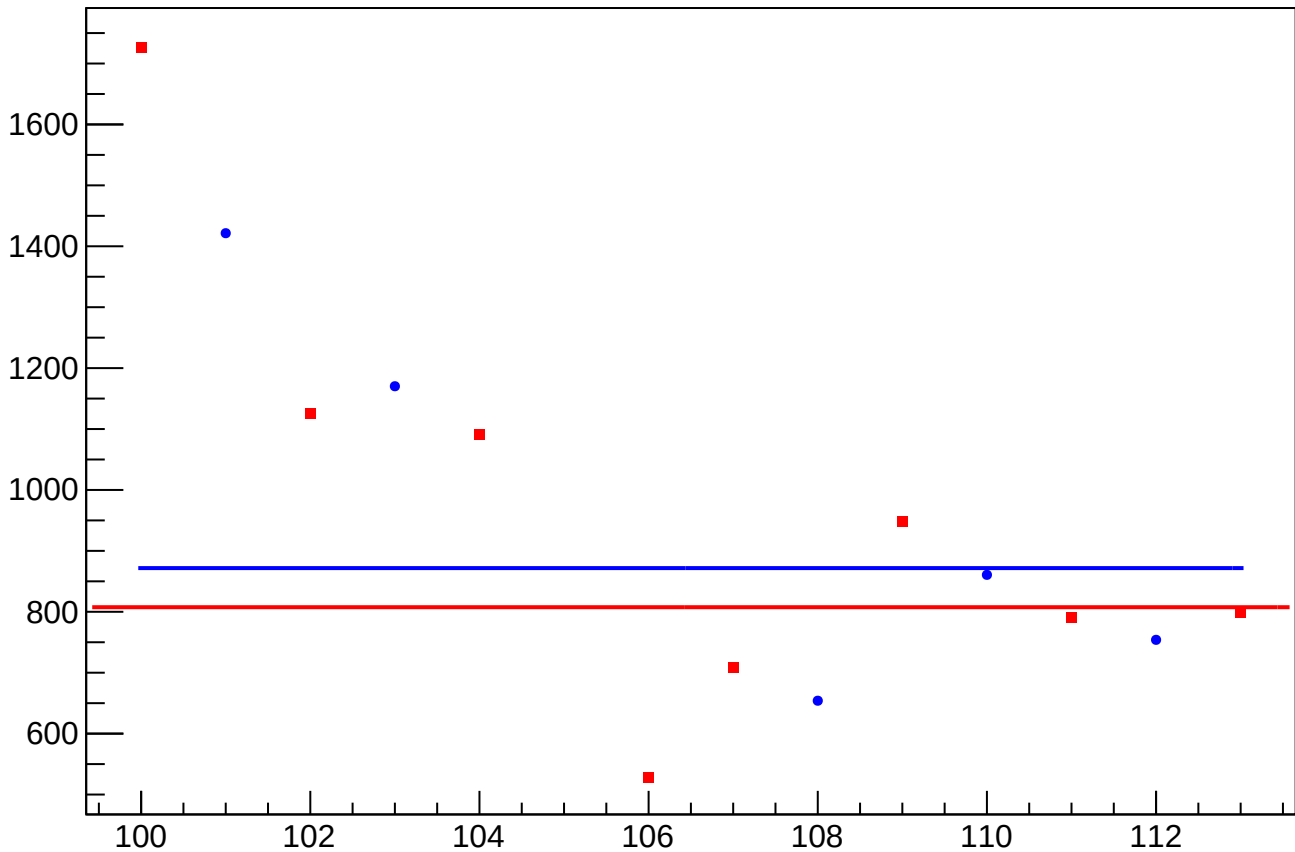
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-155.546 \pm 360.487$   $\chi^2/\text{NDF}$ : 17.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 871.714 $\pm$ 0.404  $\chi^2$ /NDF: 384906.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 807.512 $\pm$ 0.329  $\chi^2$ /NDF: 426410.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

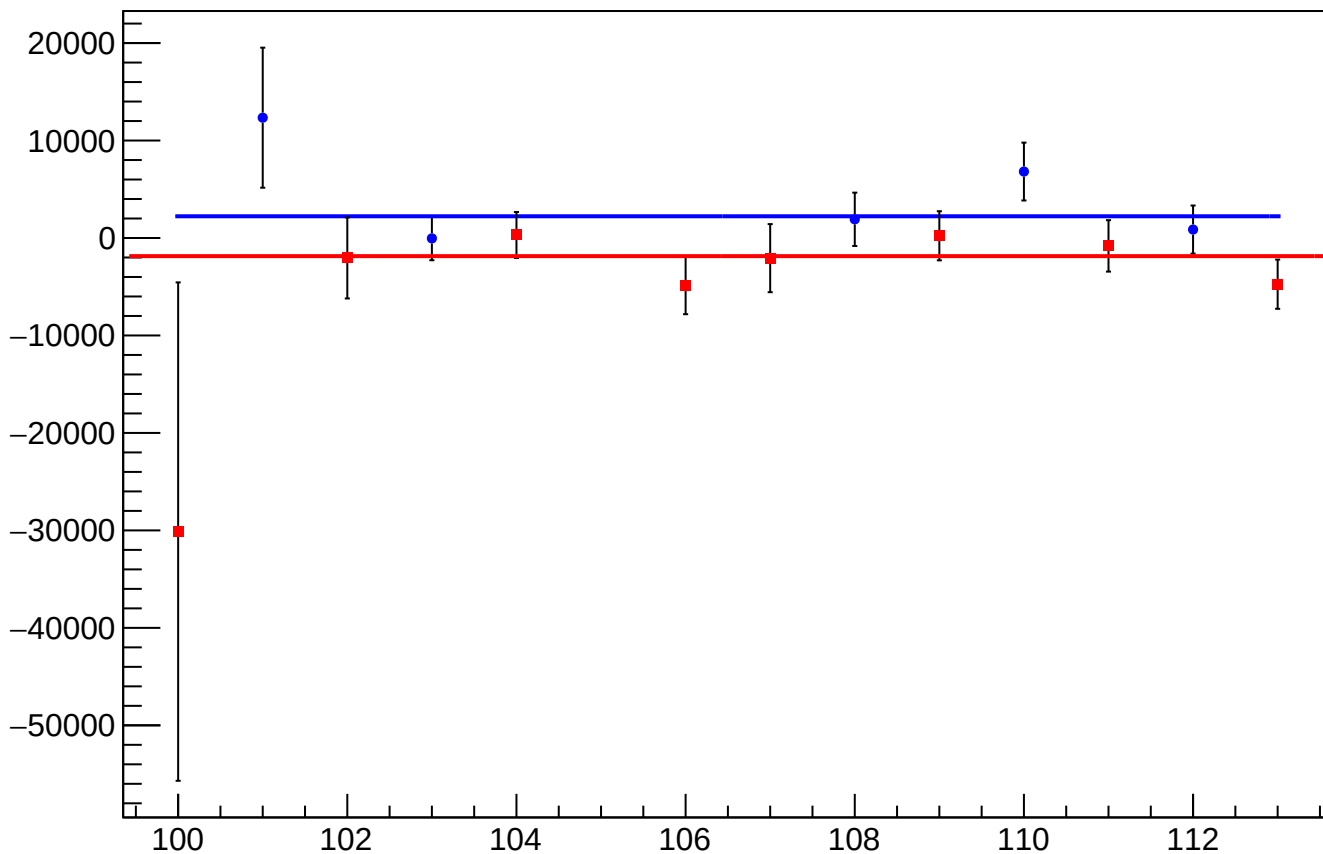
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 833.089 $\pm$ 0.255  $\chi^2$ /NDF: 826520.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 2228.937 $\pm$ 1260.335  $\chi^2$ /NDF: 5.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1860.626 $\pm$ 1057.164  $\chi^2$ /NDF: 5.3/7

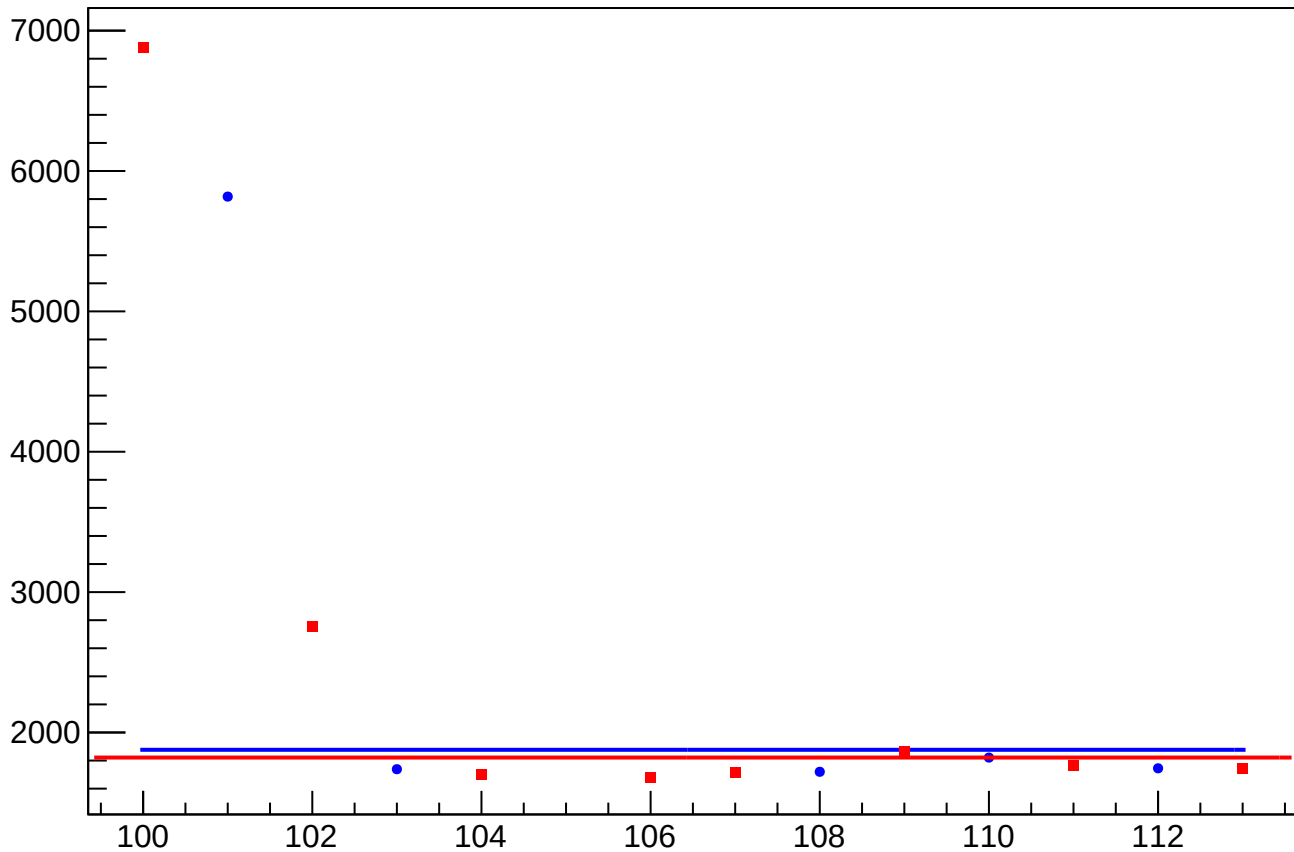
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -171.635 $\pm$ 809.955  $\chi^2$ /NDF: 17.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1876.715 $\pm$ 0.891  $\chi^2$ /NDF: 622458.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1821.476 $\pm$ 0.748  $\chi^2$ /NDF: 194879.3/7

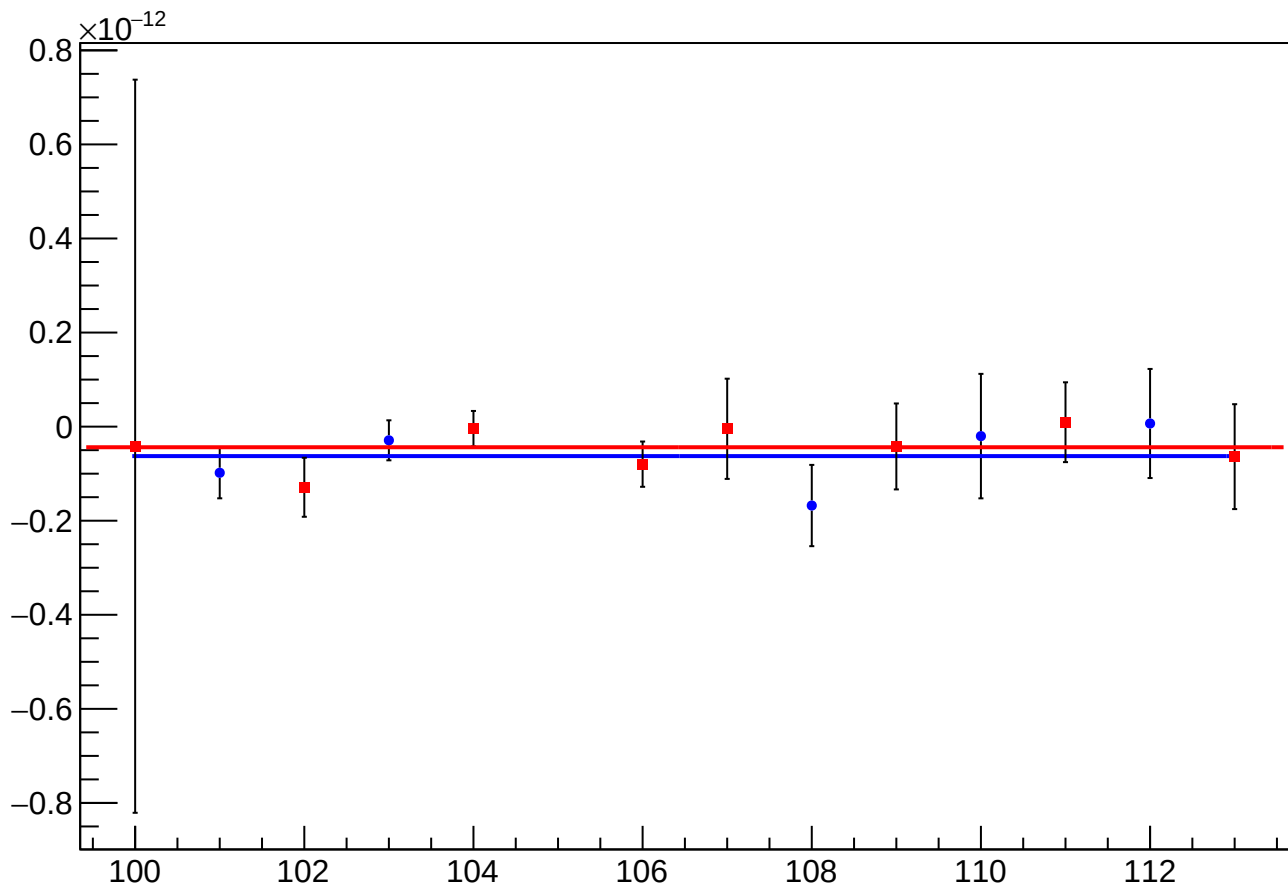
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1844.290 $\pm$ 0.573  $\chi^2$ /NDF: 819592.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.1/7

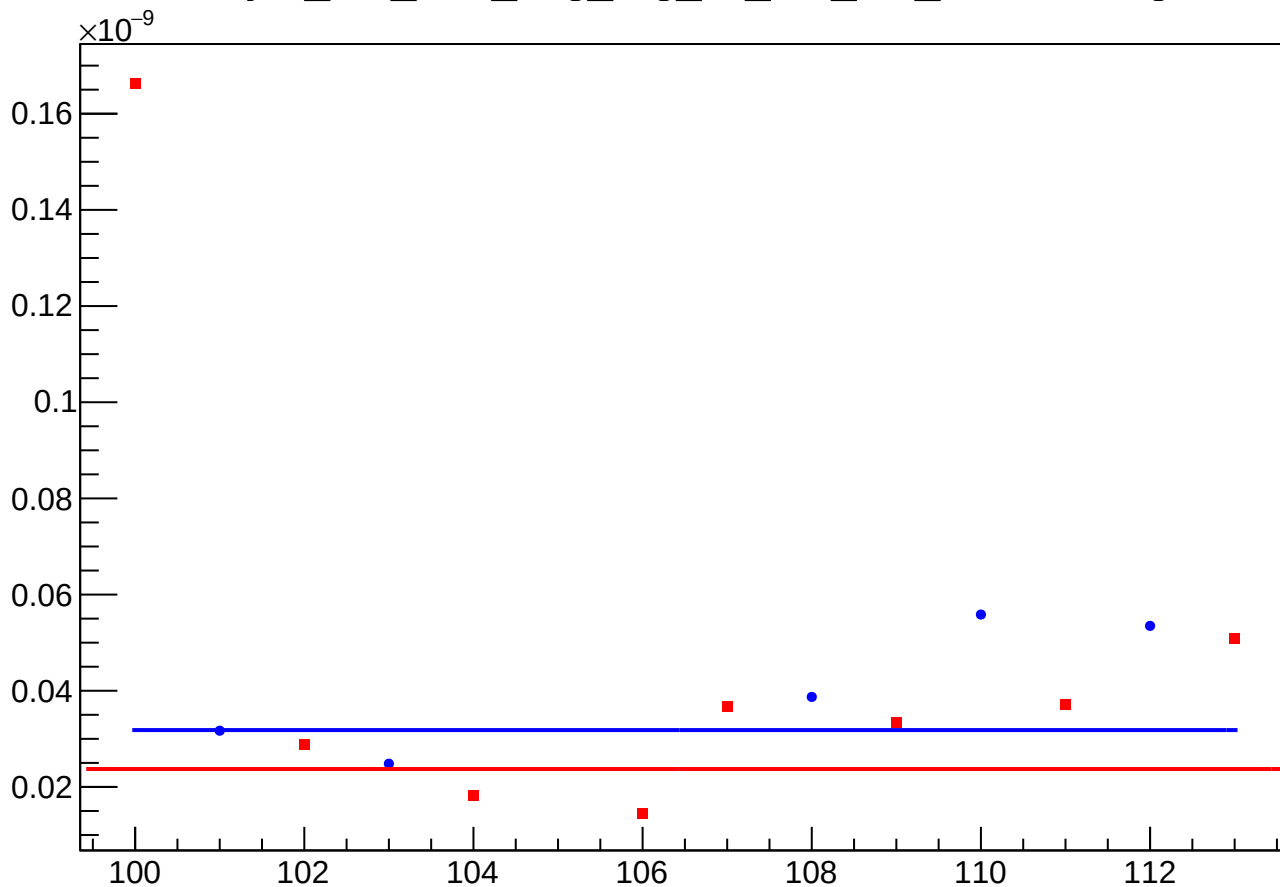
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 202503.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 418526.6/7

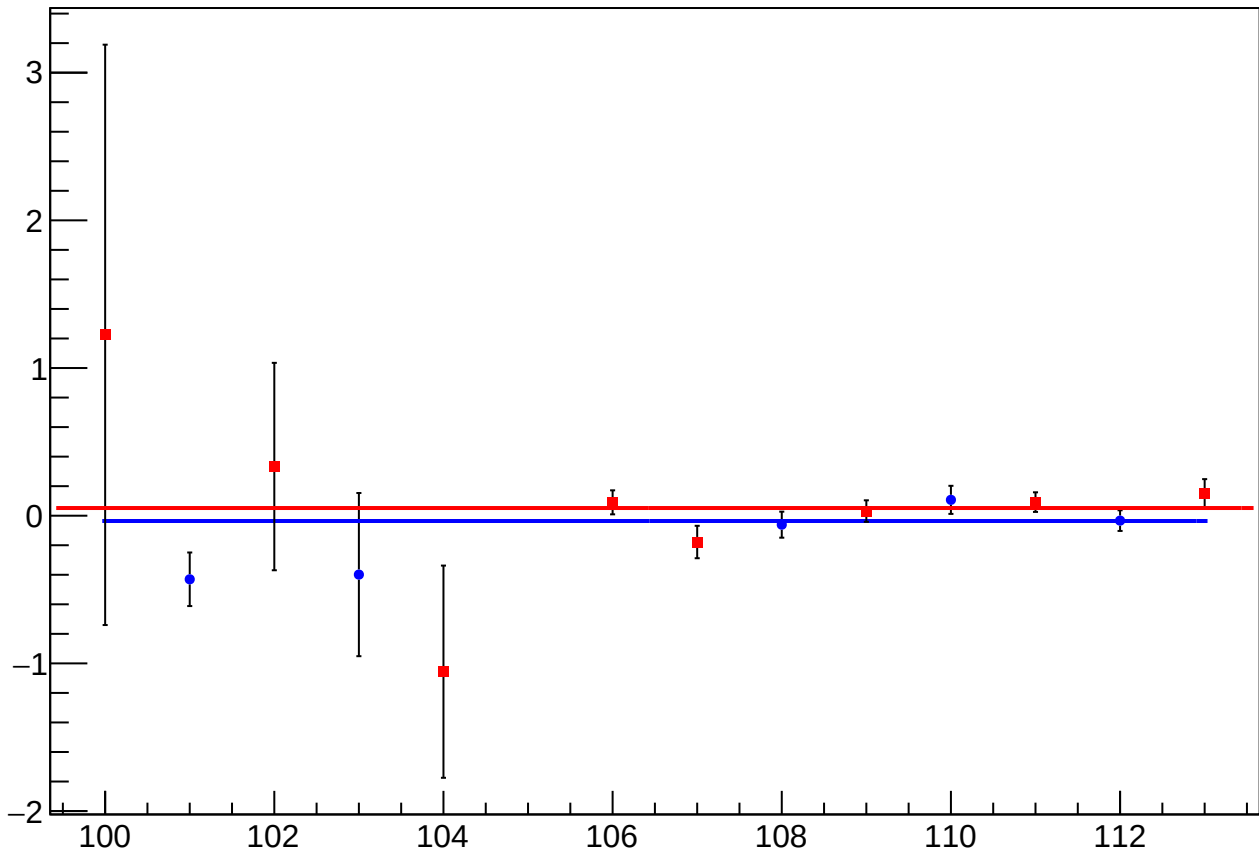
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 713779.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.036 $\pm$ 0.046  $\chi^2$ /NDF: 7.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.052 $\pm$ 0.036  $\chi^2$ /NDF: 8.9/7

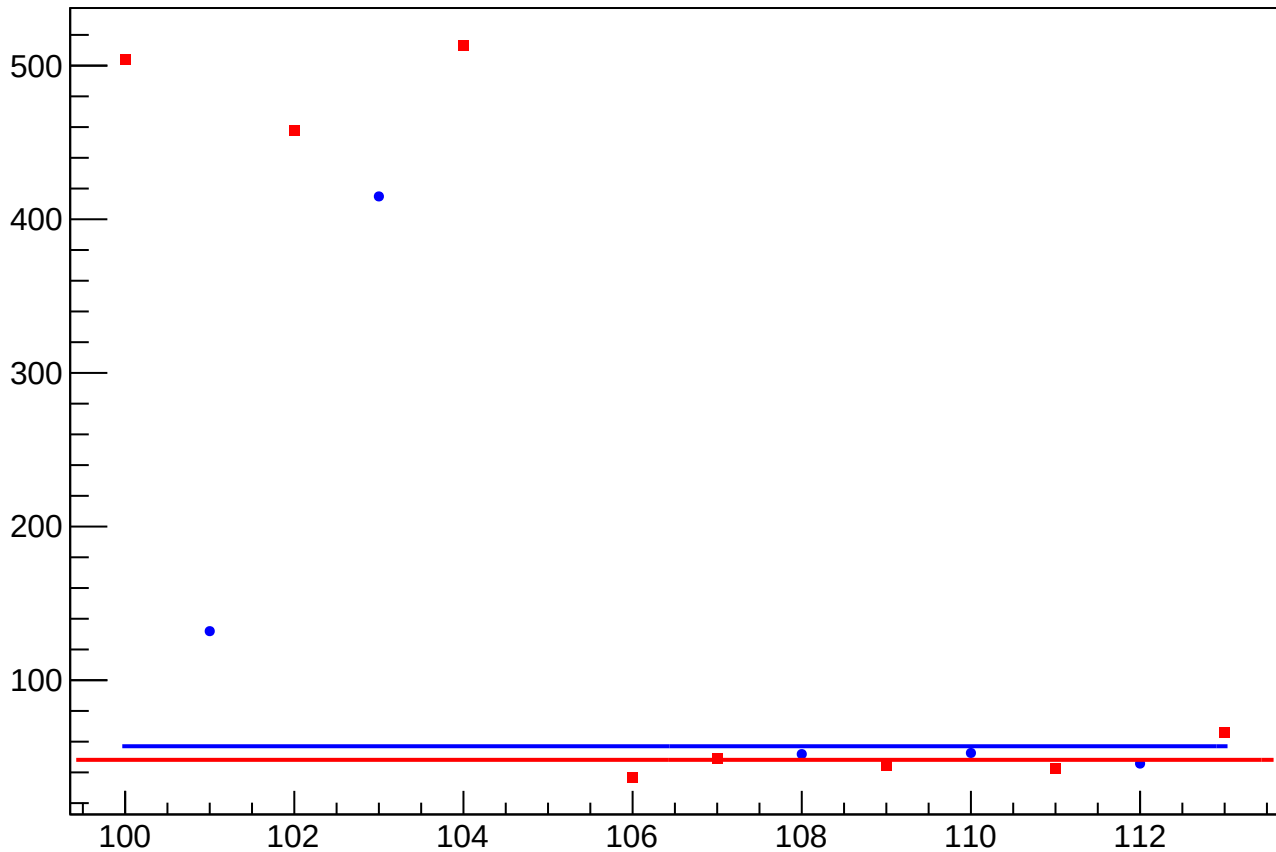
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.029  $\chi^2$ /NDF: 18.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr1\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 57.021+/-0.032  $\chi^2/\text{NDF}$ : 1243274.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.167+/-0.026  $\chi^2/\text{NDF}$ : 1749141.5/7

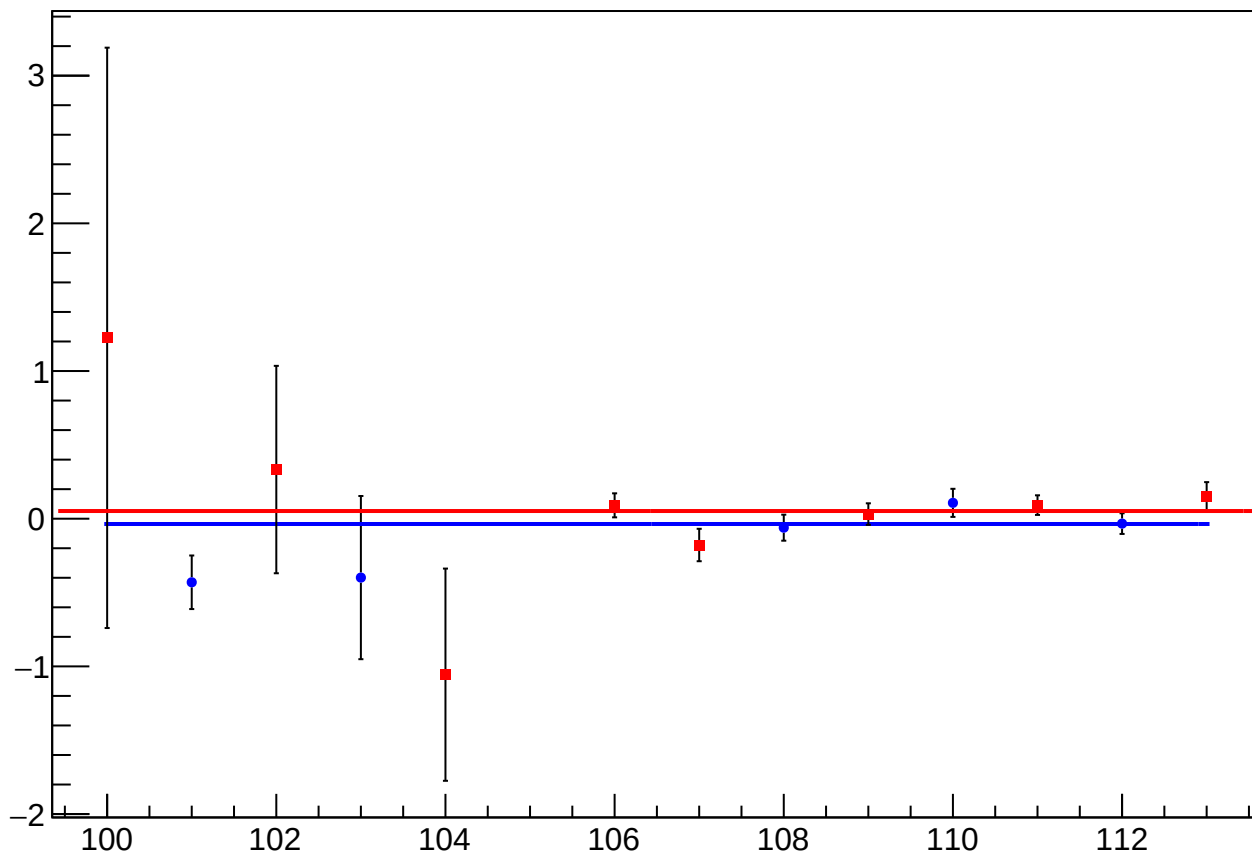
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.606+/-0.020  $\chi^2/\text{NDF}$ : 3038212.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.036 $\pm$ 0.046  $\chi^2$ /NDF: 7.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.052 $\pm$ 0.036  $\chi^2$ /NDF: 8.9/7

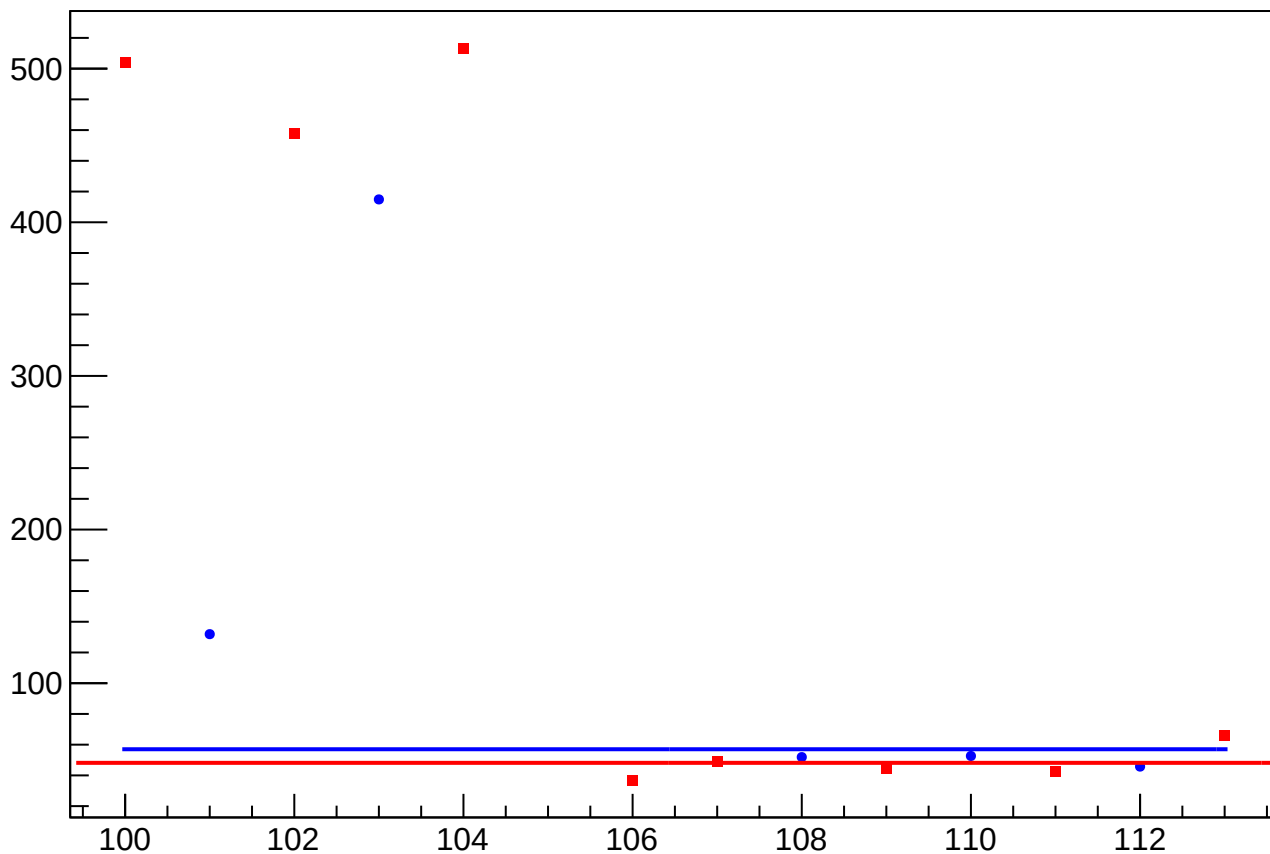
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.029  $\chi^2$ /NDF: 18.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 57.021+/-0.032  $\chi^2/\text{NDF}$ : 1243274.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.167+/-0.026  $\chi^2/\text{NDF}$ : 1749141.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

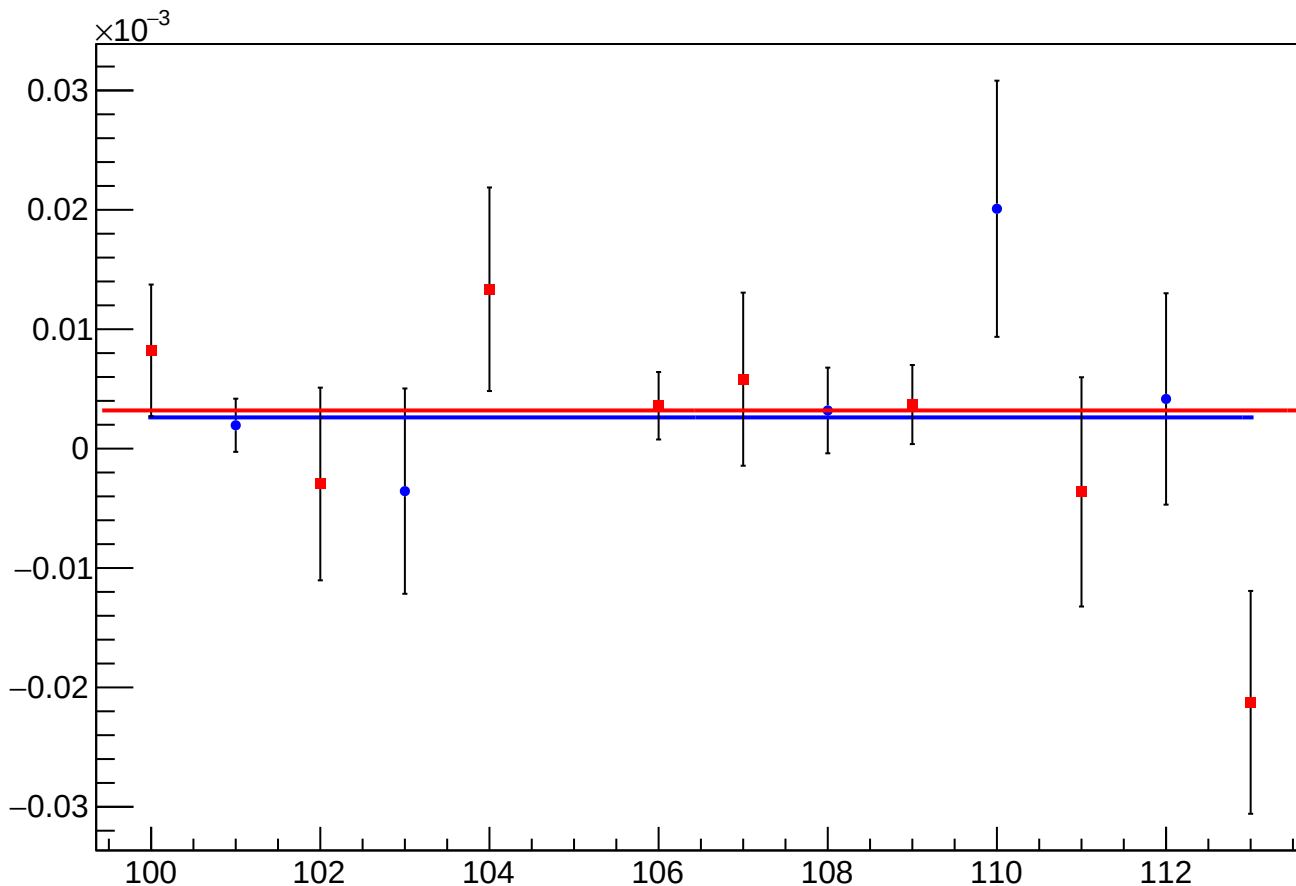
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.606+/-0.020  $\chi^2/\text{NDF}$ : 3038212.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 3.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 10.4/7

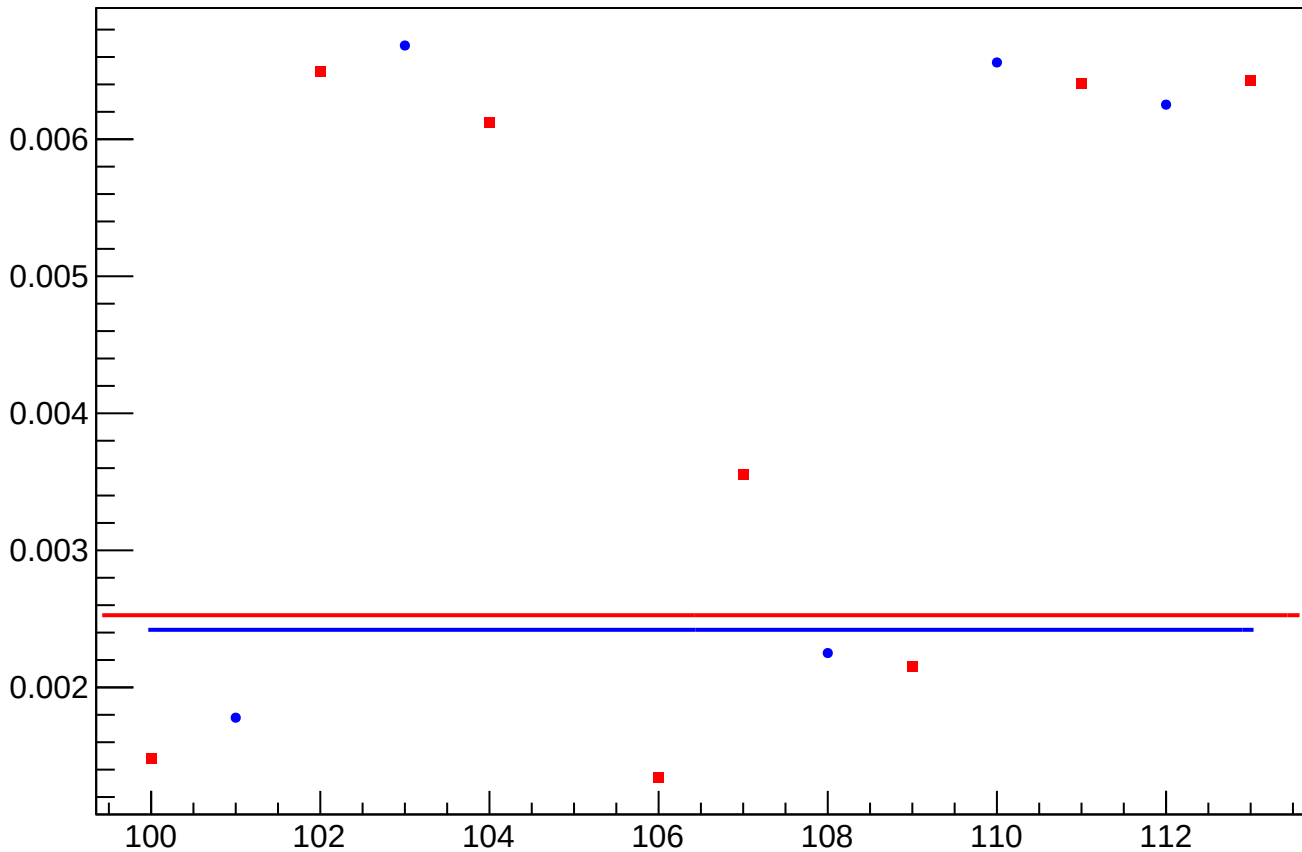
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1334648.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2005371.6/7

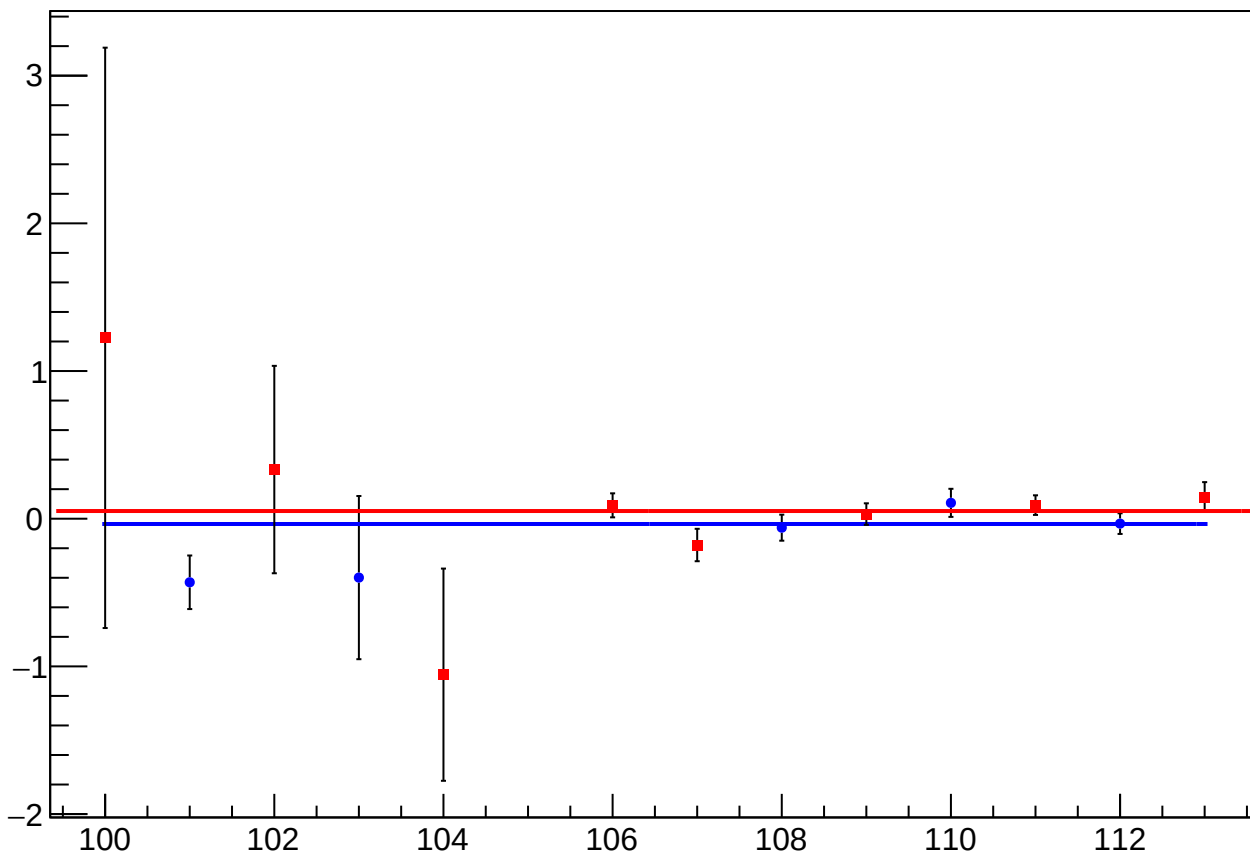
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3343616.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.036 $\pm$ 0.046  $\chi^2$ /NDF: 7.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.052 $\pm$ 0.036  $\chi^2$ /NDF: 8.9/7

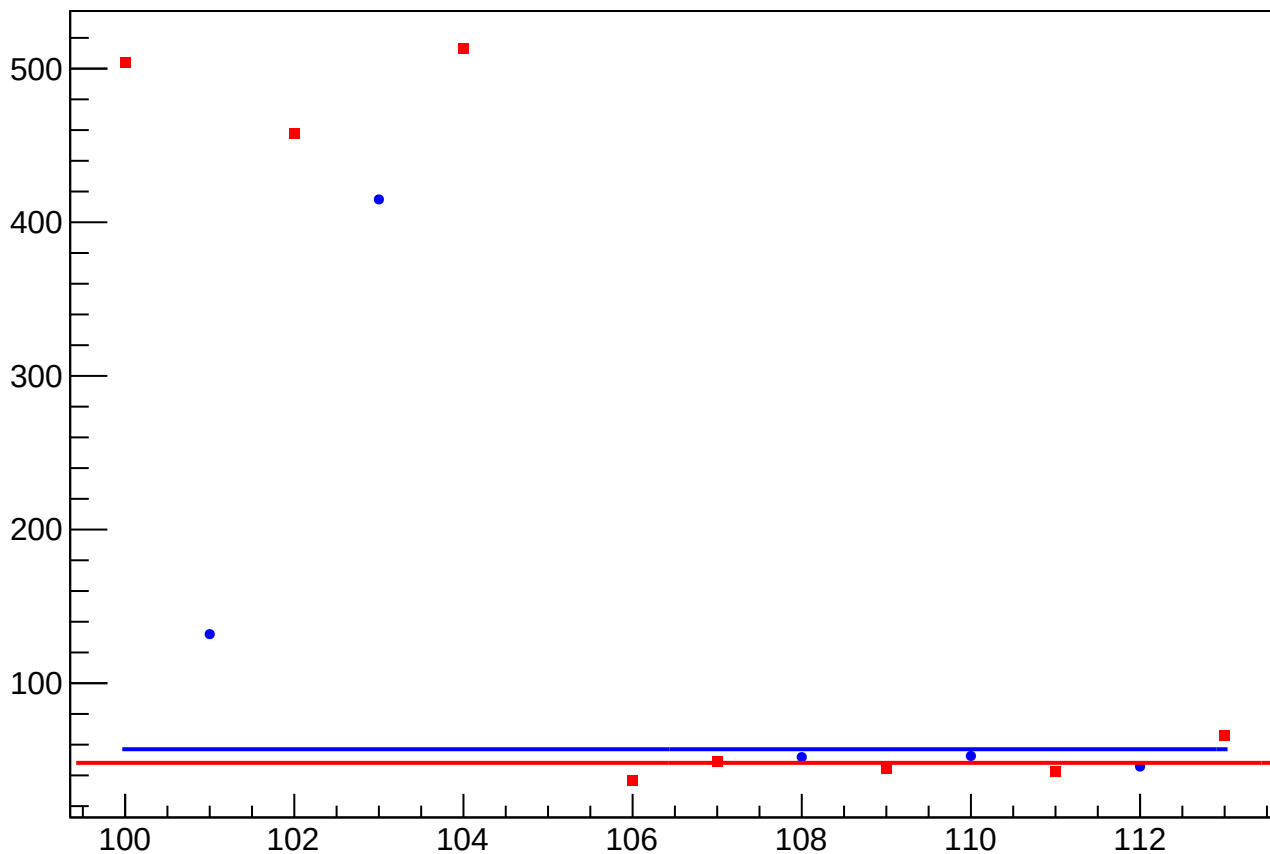
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.029  $\chi^2$ /NDF: 18.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 57.023+/-0.032  $\chi^2/\text{NDF}$ : 1243254.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.168+/-0.026  $\chi^2/\text{NDF}$ : 1749109.8/7

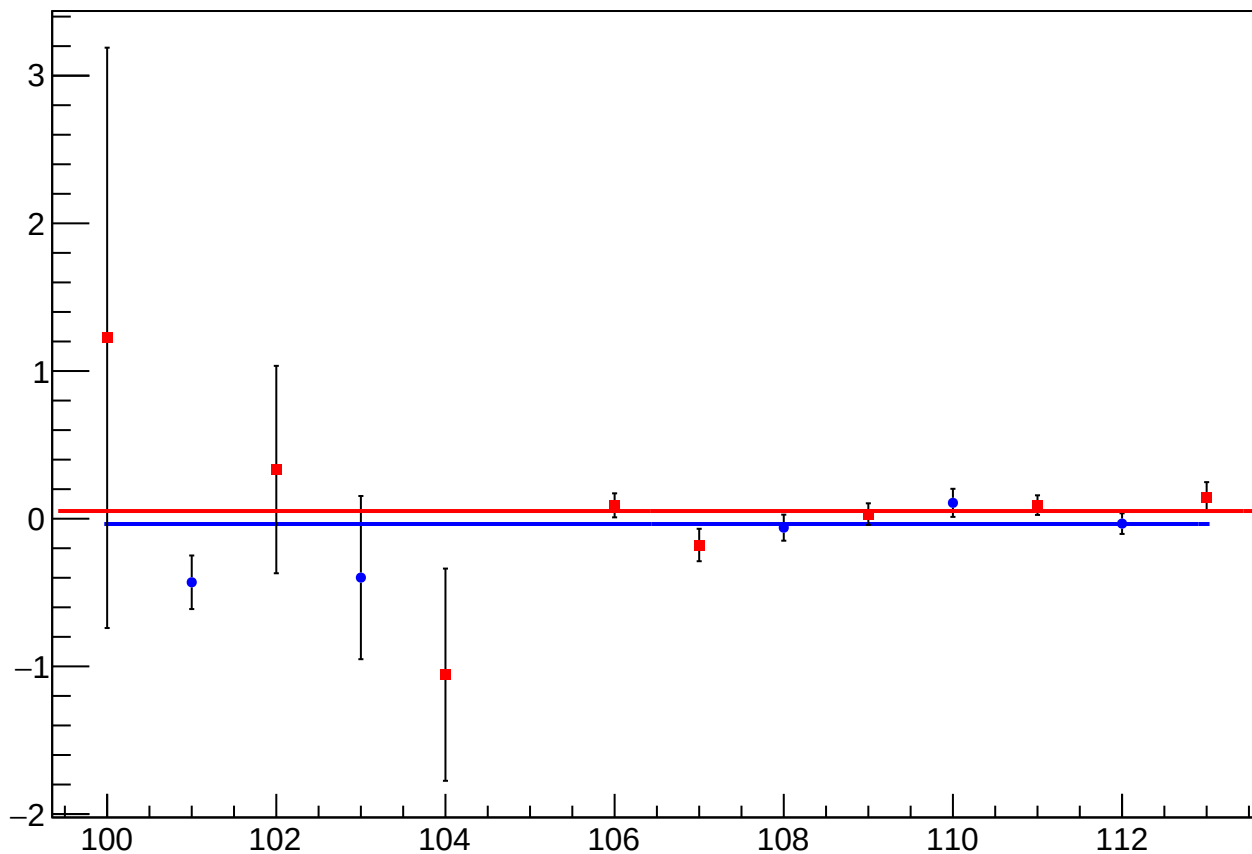
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.606+/-0.020  $\chi^2/\text{NDF}$ : 3038178.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.036 $\pm$ 0.046  $\chi^2$ /NDF: 7.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.052 $\pm$ 0.036  $\chi^2$ /NDF: 8.9/7

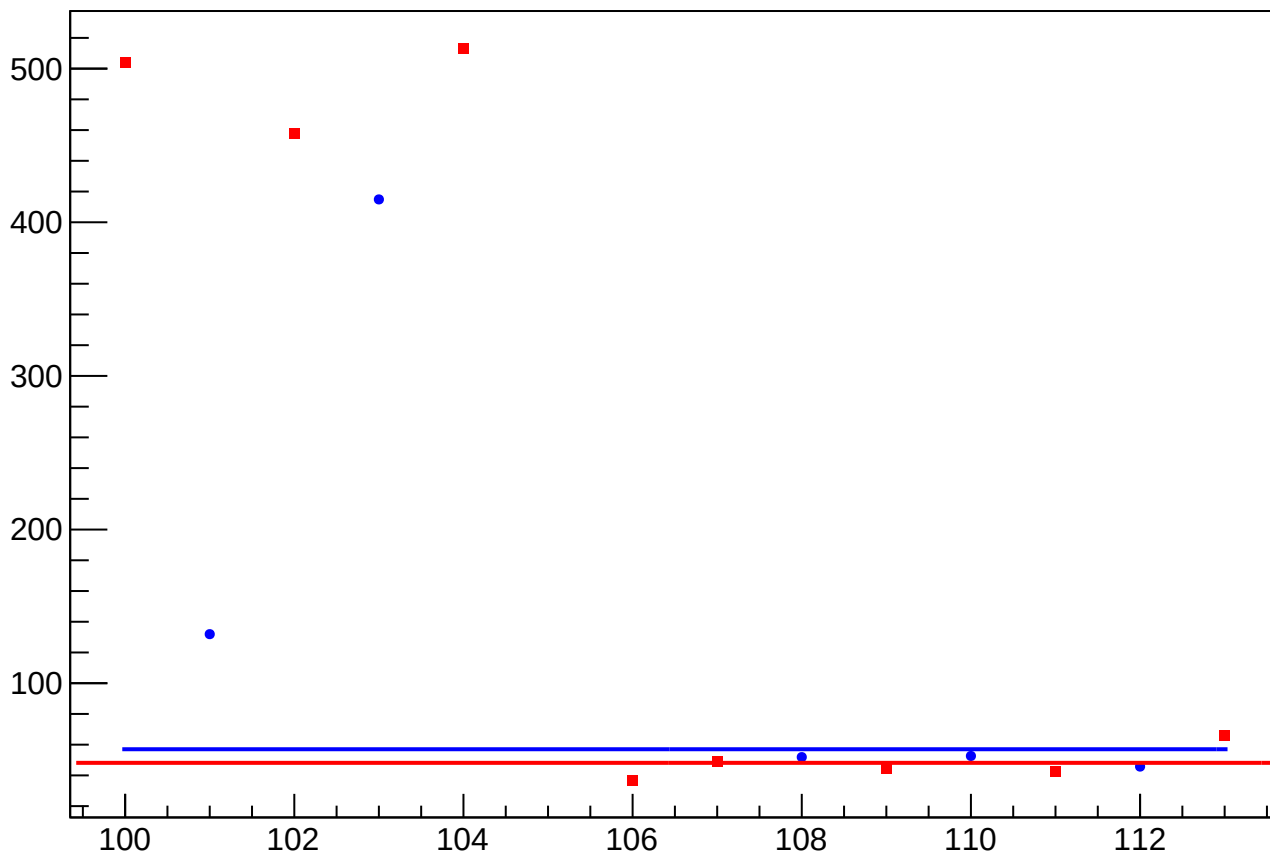
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.029  $\chi^2$ /NDF: 18.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 57.023+/-0.032  $\chi^2/\text{NDF}$ : 1243254.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.168+/-0.026  $\chi^2/\text{NDF}$ : 1749109.8/7

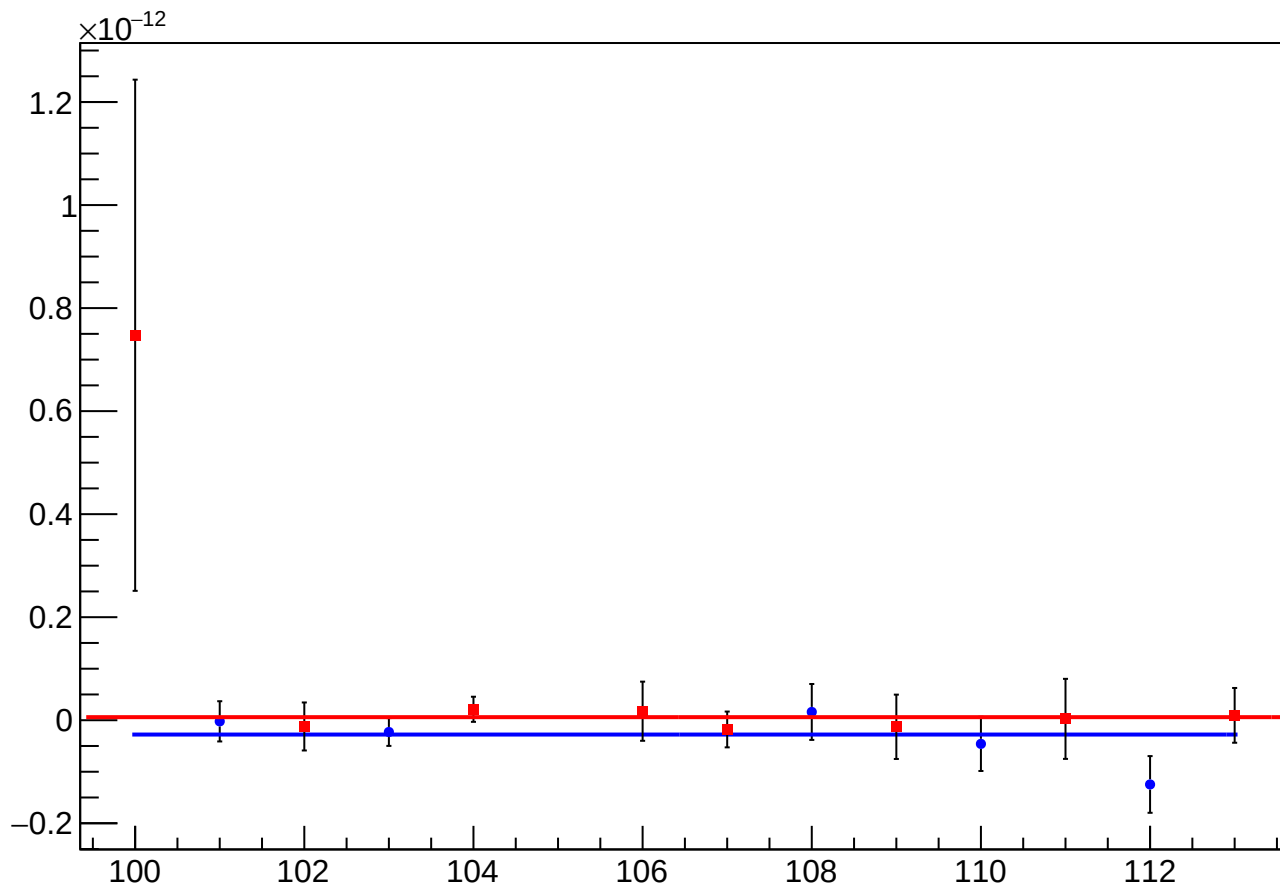
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.606+/-0.020  $\chi^2/\text{NDF}$ : 3038178.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.4/7

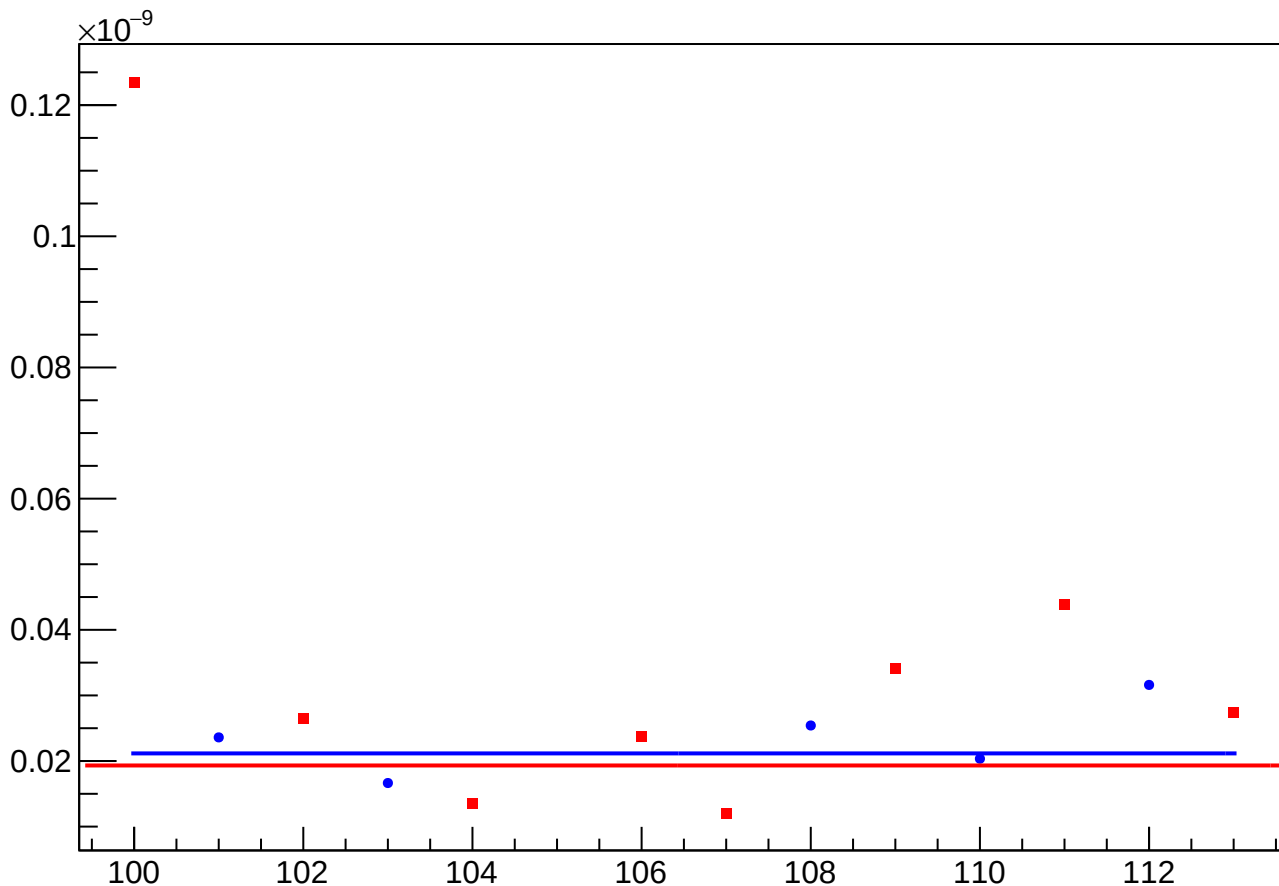
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 148601.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 704322.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

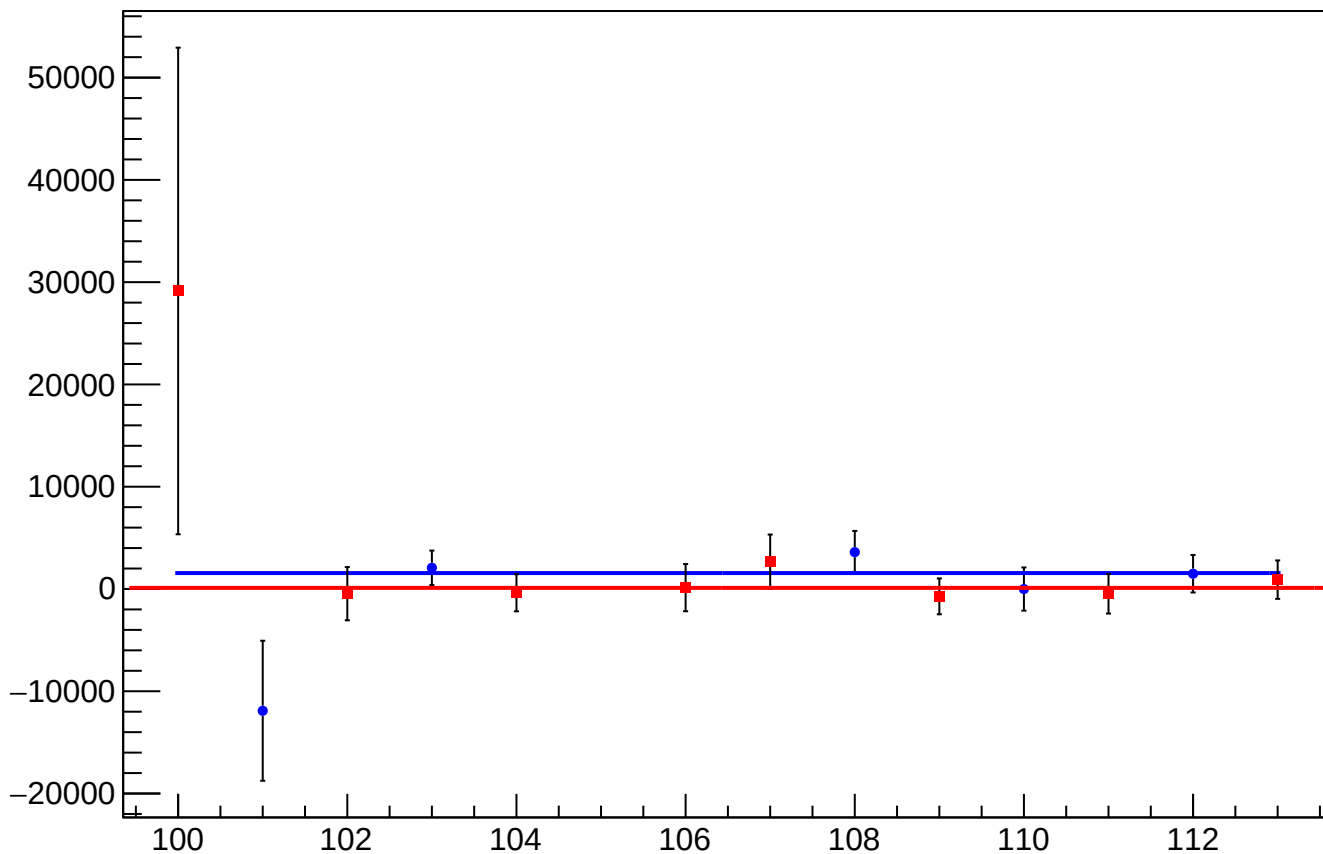
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 864737.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 1556.160 $\pm$ 941.607  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 108.408 $\pm$ 776.664  $\chi^2$ /NDF: 3.0/7

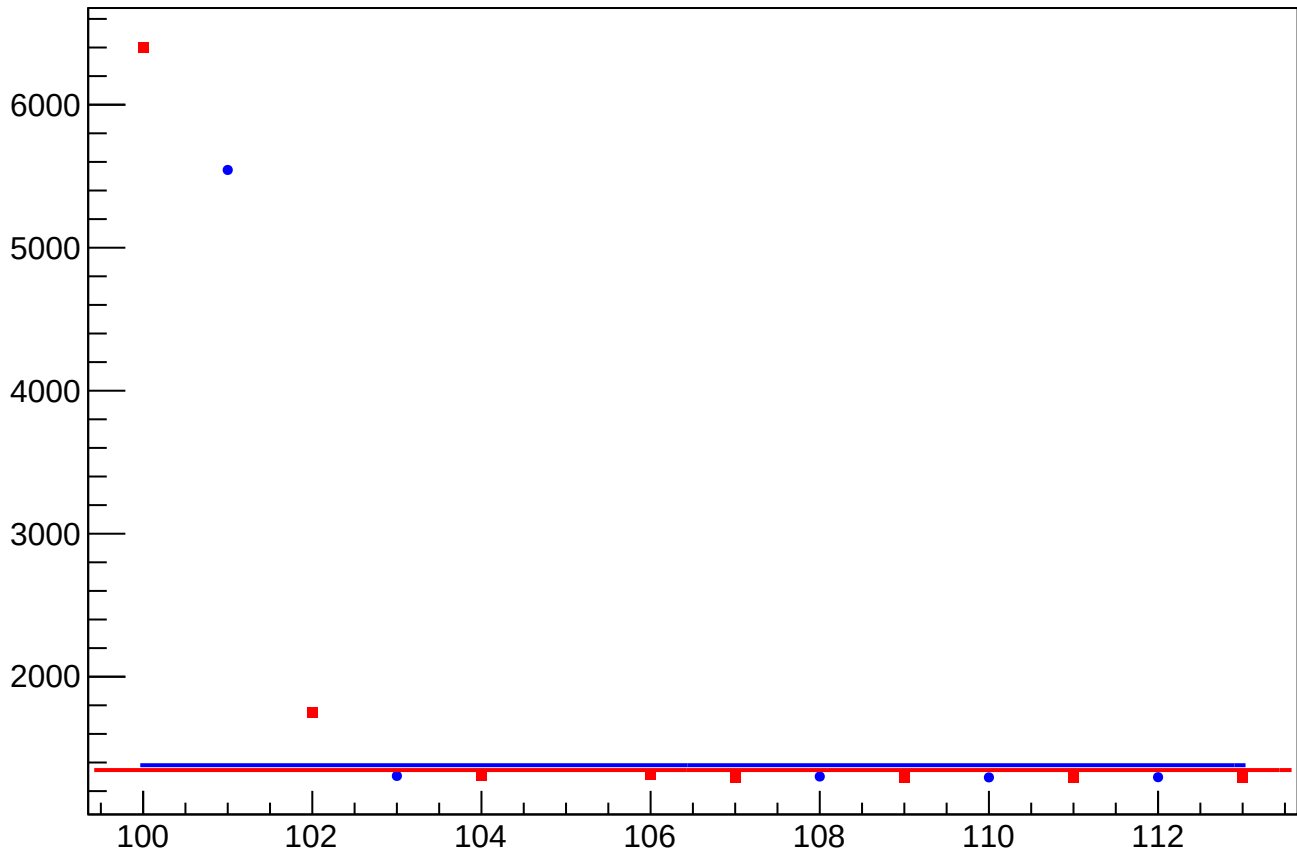
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 694.578 $\pm$ 599.148  $\chi^2$ /NDF: 9.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1381.089+/-0.666  $\chi^2/\text{NDF}$ : 753520.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1347.212+/-0.549  $\chi^2/\text{NDF}$ : 144528.5/7

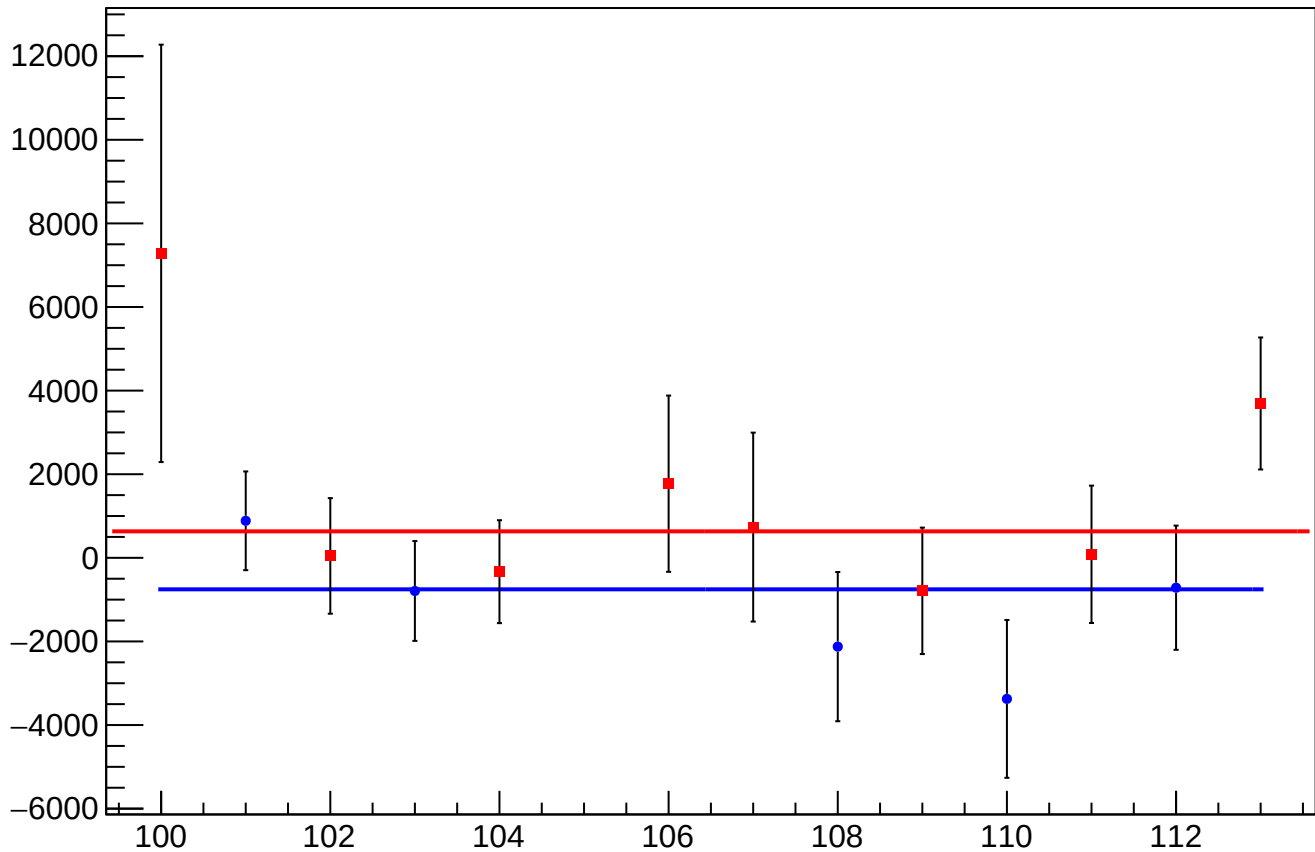
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1360.928+/-0.424  $\chi^2/\text{NDF}$ : 899589.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_reg\_correction\_mean vs Slug



Right In: -753.723+/-636.777  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 633.399+/-592.029  $\chi^2/\text{NDF}$ : 7.6/7

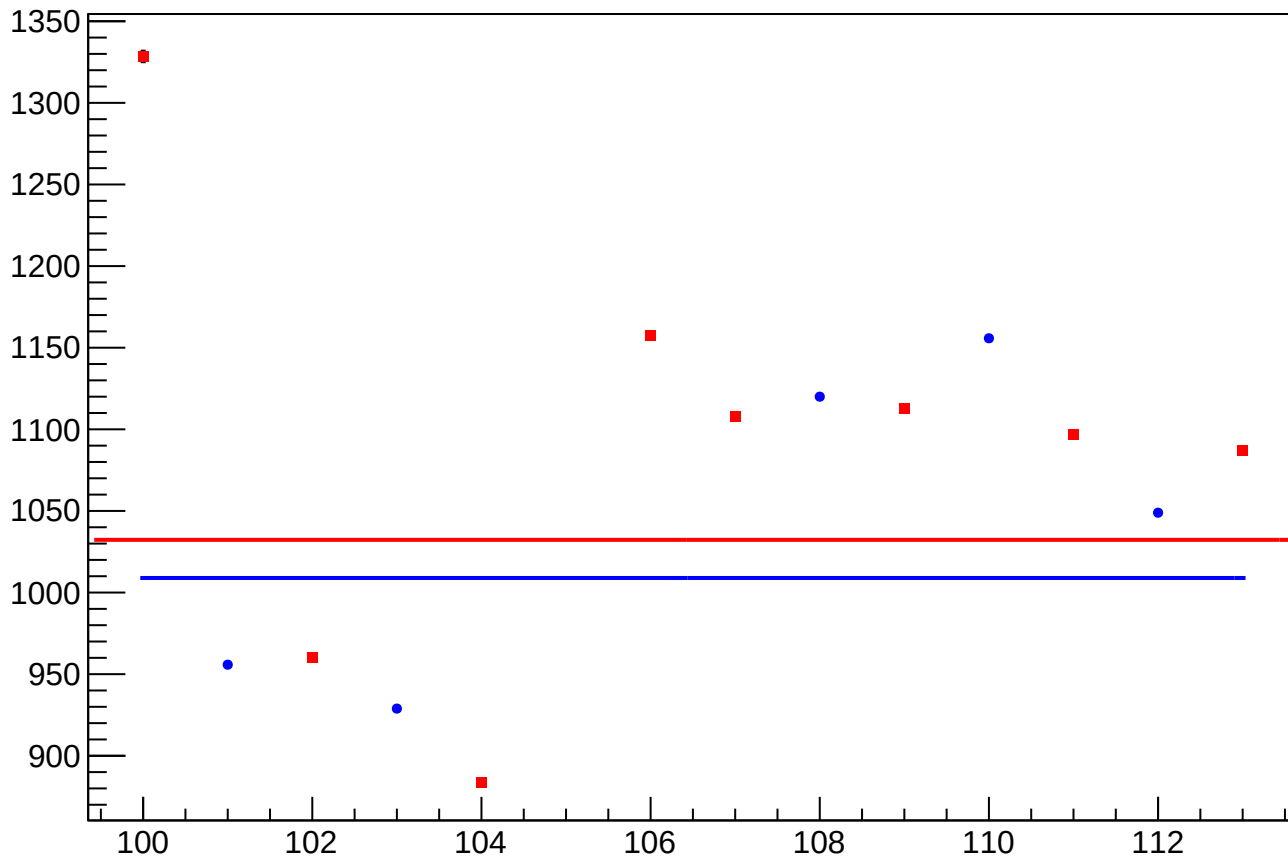
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.717+/-433.585  $\chi^2/\text{NDF}$ : 14.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_reg\_correction\_rms vs Slug



Right In: 1008.927+/-0.450  $\chi^2/\text{NDF}$ : 34331.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1032.290+/-0.419  $\chi^2/\text{NDF}$ : 62089.9/7

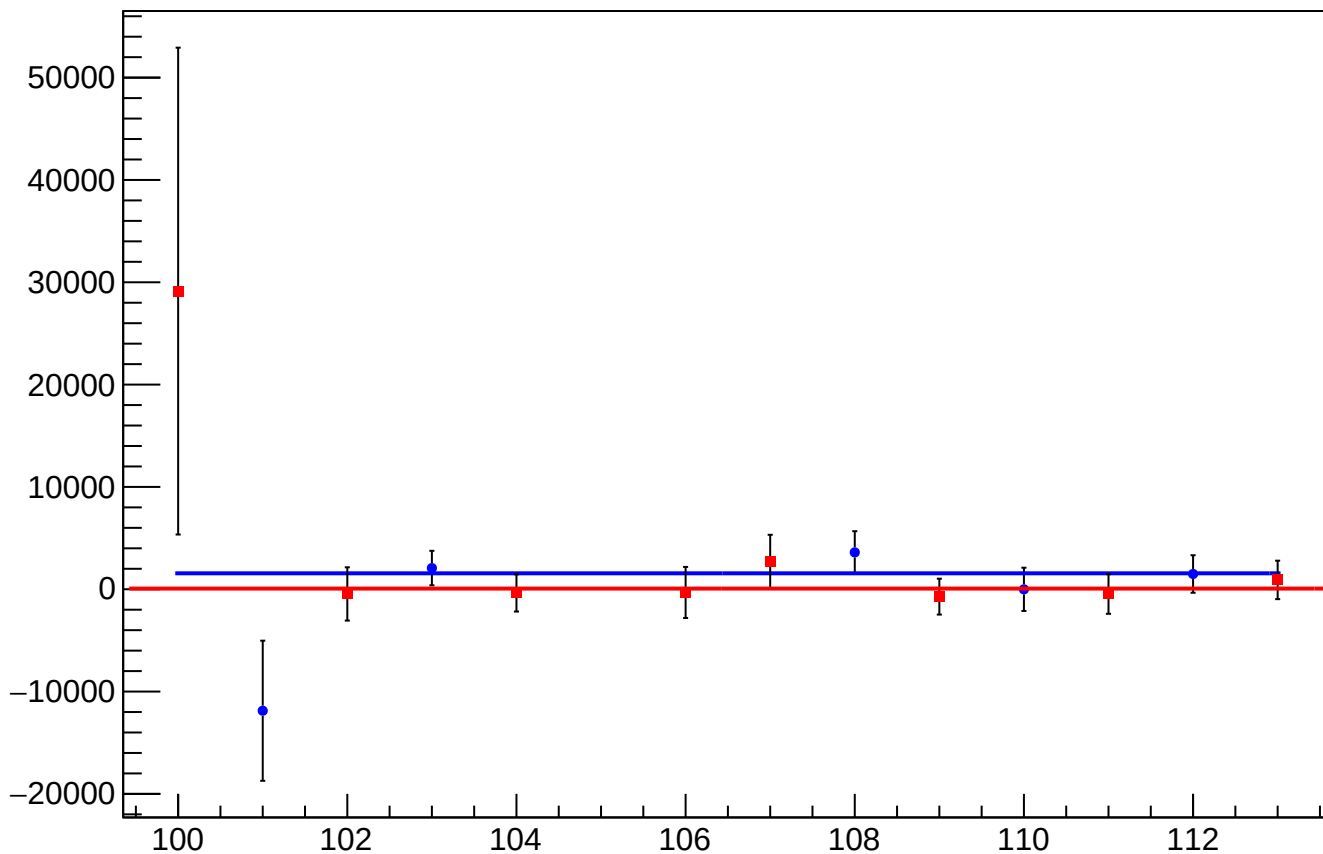
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1021.458+/-0.307  $\chi^2/\text{NDF}$ : 97865.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 1556.819+/-941.608  $\chi^2/\text{NDF}$ : 5.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 65.212+/-783.080  $\chi^2/\text{NDF}$ : 3.1/7

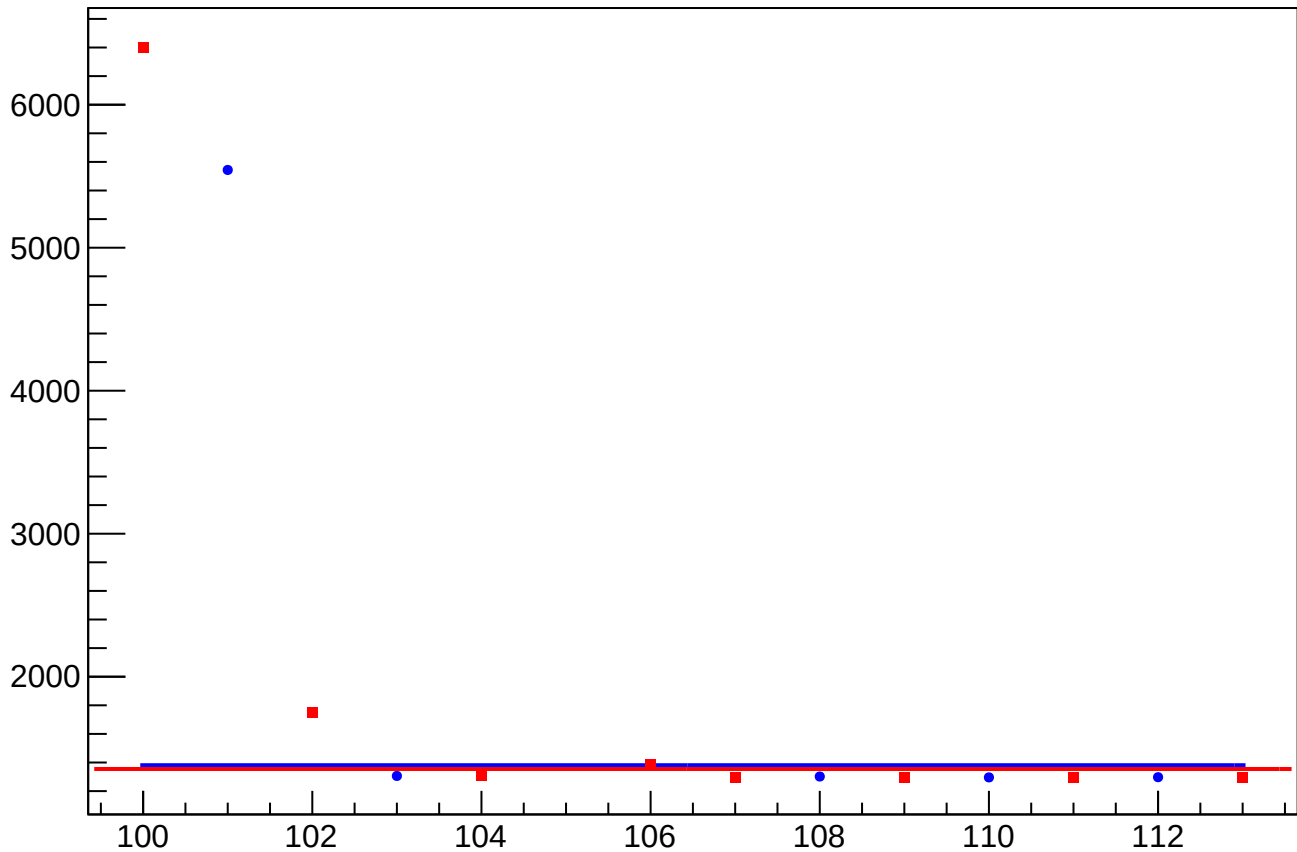
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 675.061+/-602.079  $\chi^2/\text{NDF}$ : 10.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1381.089 $\pm$ 0.666  $\chi^2$ /NDF: 753519.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1354.726 $\pm$ 0.554  $\chi^2$ /NDF: 144568.3/7

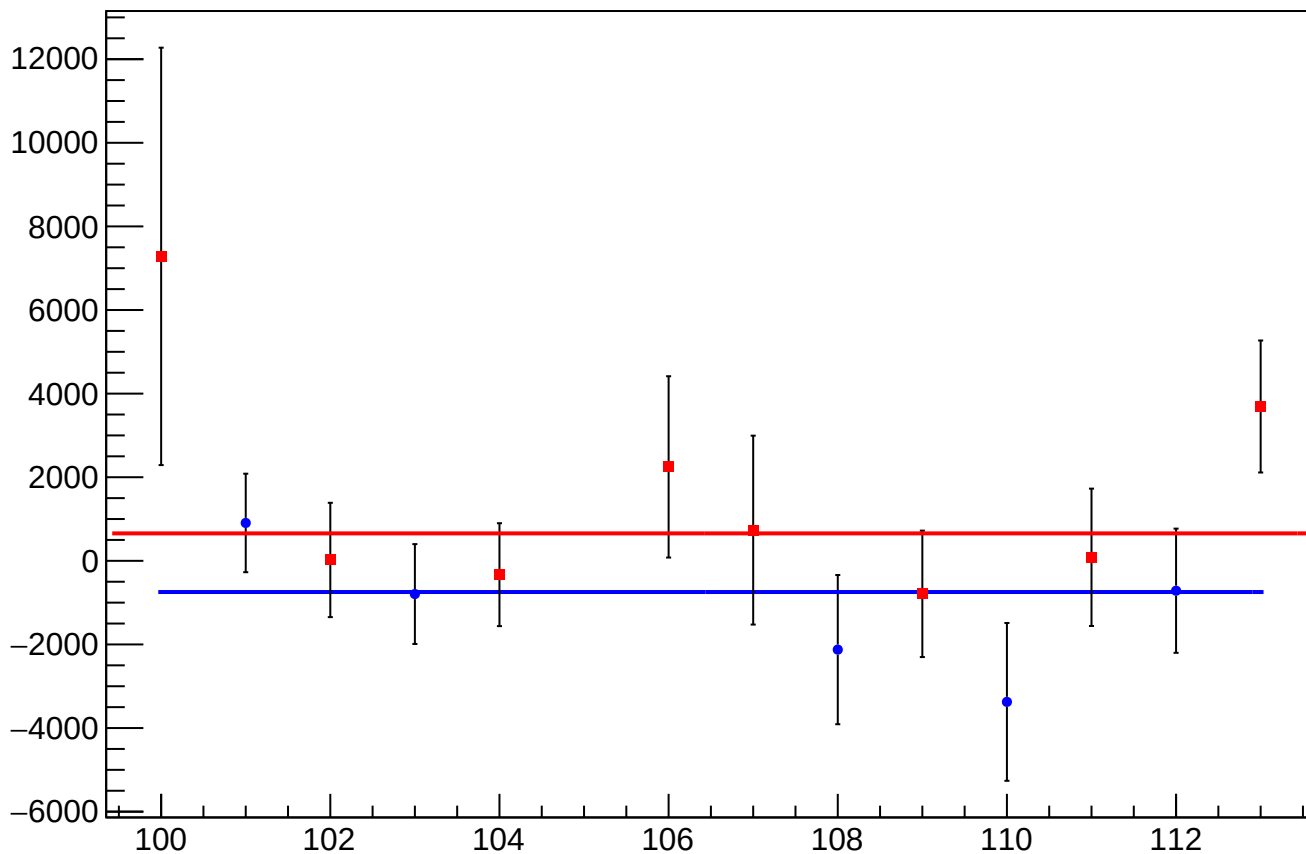
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1365.505 $\pm$ 0.426  $\chi^2$ /NDF: 899014.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr1\_dd\_cor\_correction\_mean vs Slug



Right In: -746.058+/-636.399  $\chi^2/\text{NDF}$ : 4.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 656.718+/-592.074  $\chi^2/\text{NDF}$ : 7.9/7

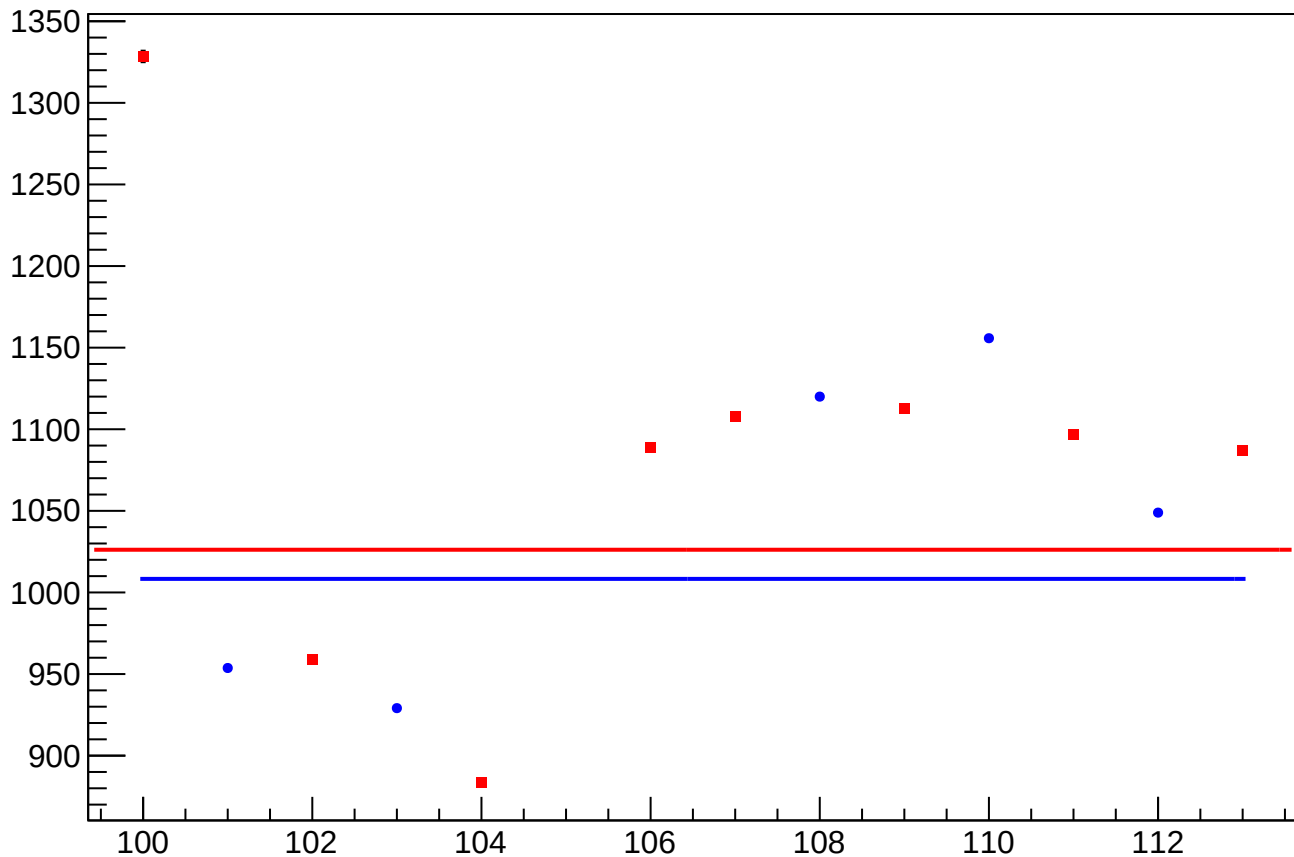
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5.878+/-433.483  $\chi^2/\text{NDF}$ : 15.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_cor\_correction\_rms vs Slug



Right In: 1008.313 $\pm$ 0.450  $\chi^2$ /NDF: 34623.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1026.172 $\pm$ 0.419  $\chi^2$ /NDF: 56472.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

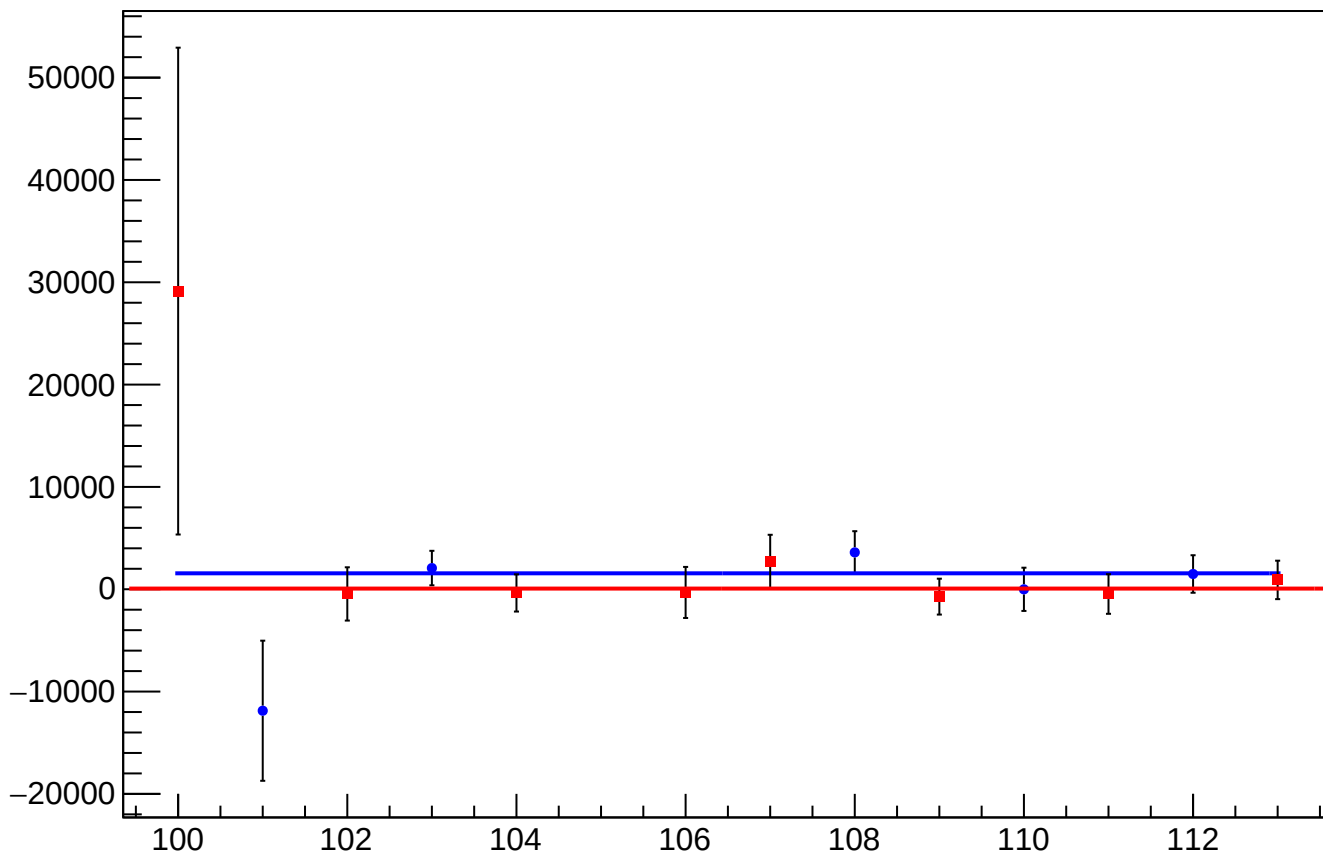
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1017.886 $\pm$ 0.307  $\chi^2$ /NDF: 91940.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_cor\_asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 1556.819 $\pm$ 941.608  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 65.212 $\pm$ 783.080  $\chi^2$ /NDF: 3.1/7

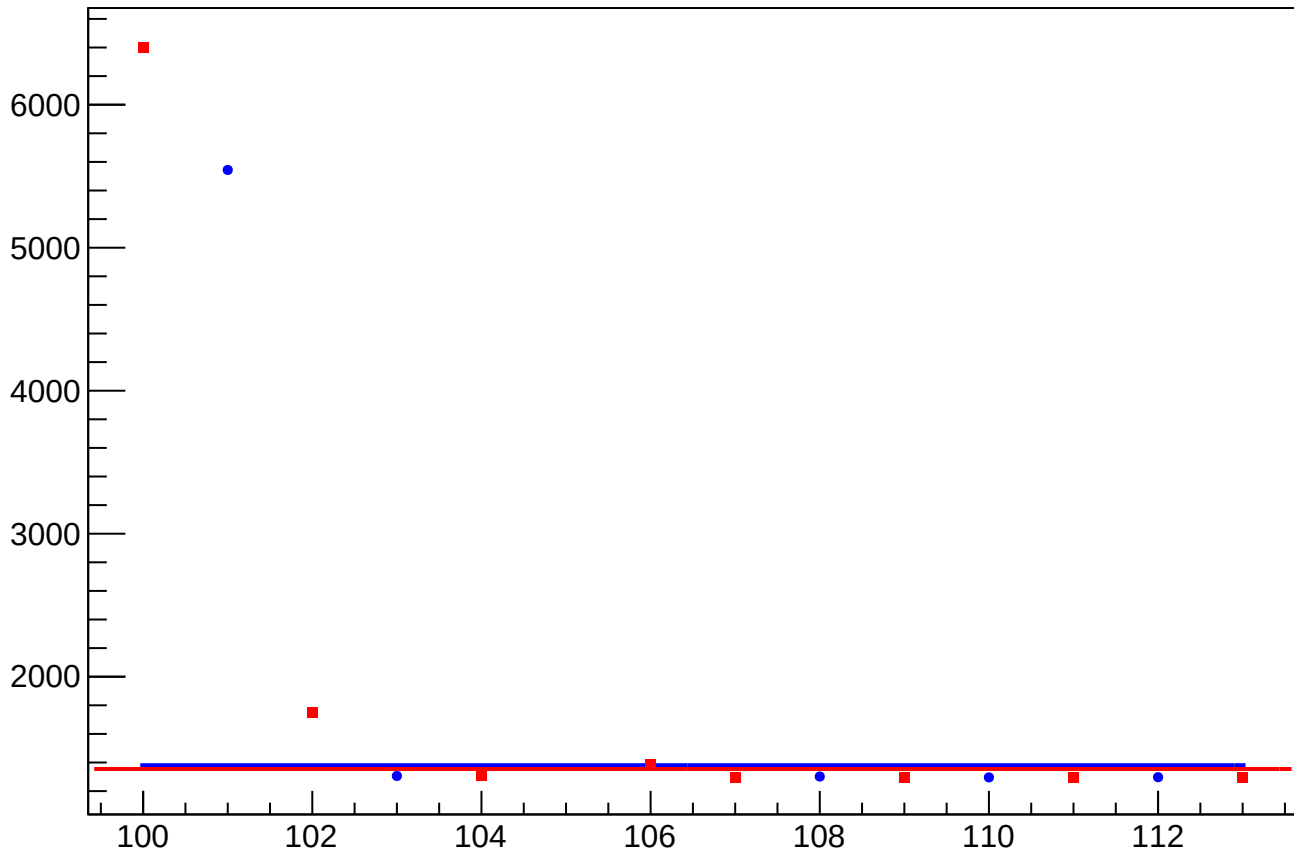
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 675.061 $\pm$ 602.079  $\chi^2$ /NDF: 10.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1381.089+/-0.666  $\chi^2/\text{NDF}$ : 753519.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1354.726+/-0.554  $\chi^2/\text{NDF}$ : 144568.3/7

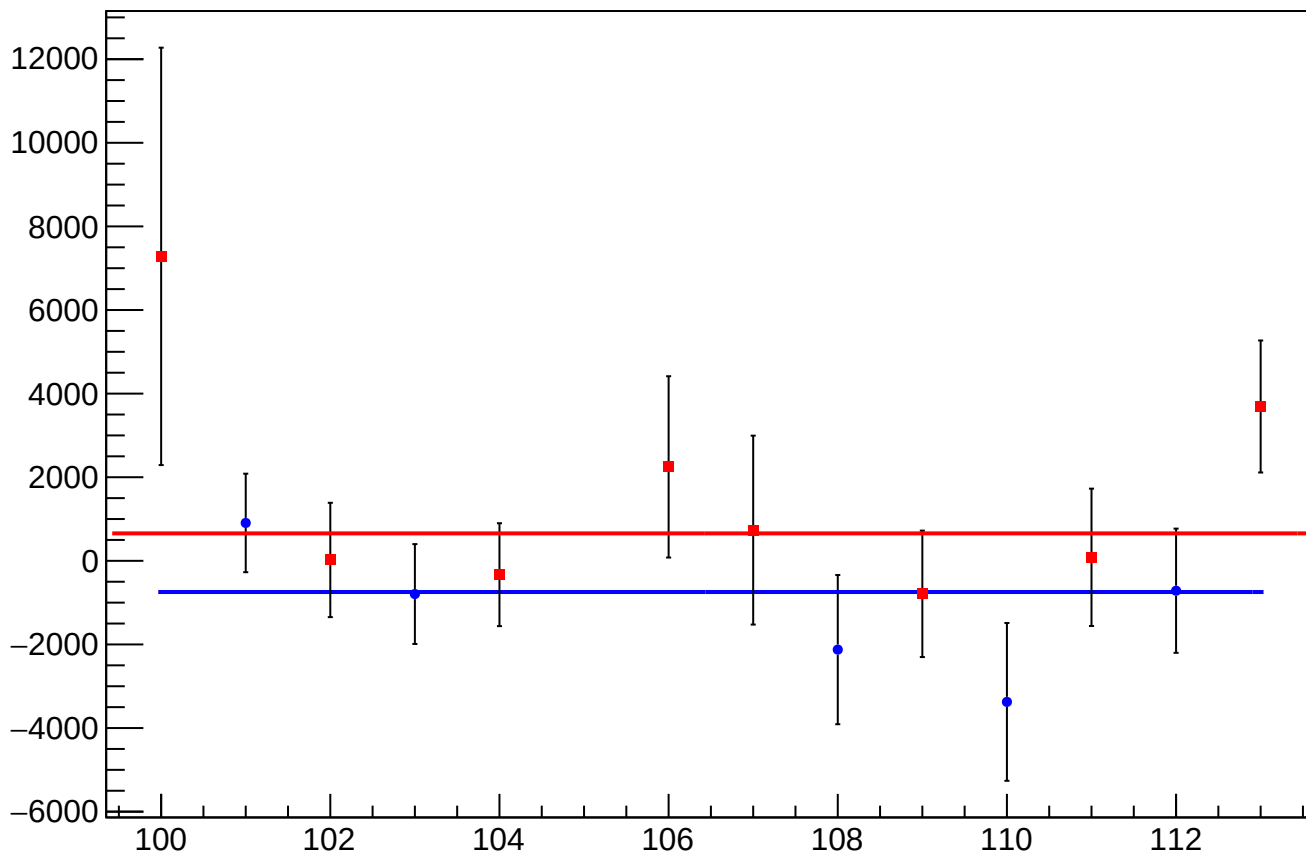
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1365.505+/-0.426  $\chi^2/\text{NDF}$ : 899014.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -746.058+/-636.399  $\chi^2/\text{NDF}$ : 4.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 656.718+/-592.074  $\chi^2/\text{NDF}$ : 7.9/7

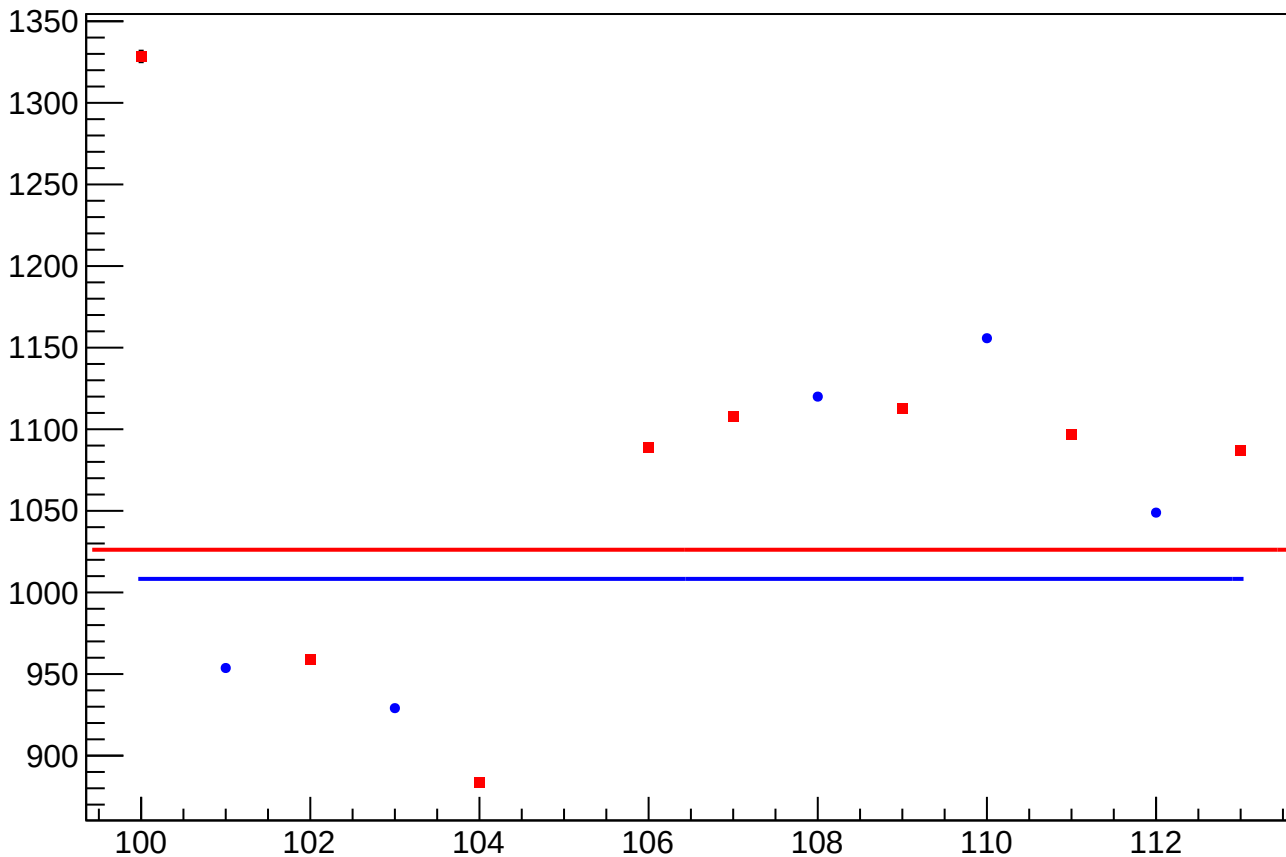
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5.878+/-433.483  $\chi^2/\text{NDF}$ : 15.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1008.313+/-0.450  $\chi^2/\text{NDF}$ : 34623.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1026.172+/-0.419  $\chi^2/\text{NDF}$ : 56472.7/7

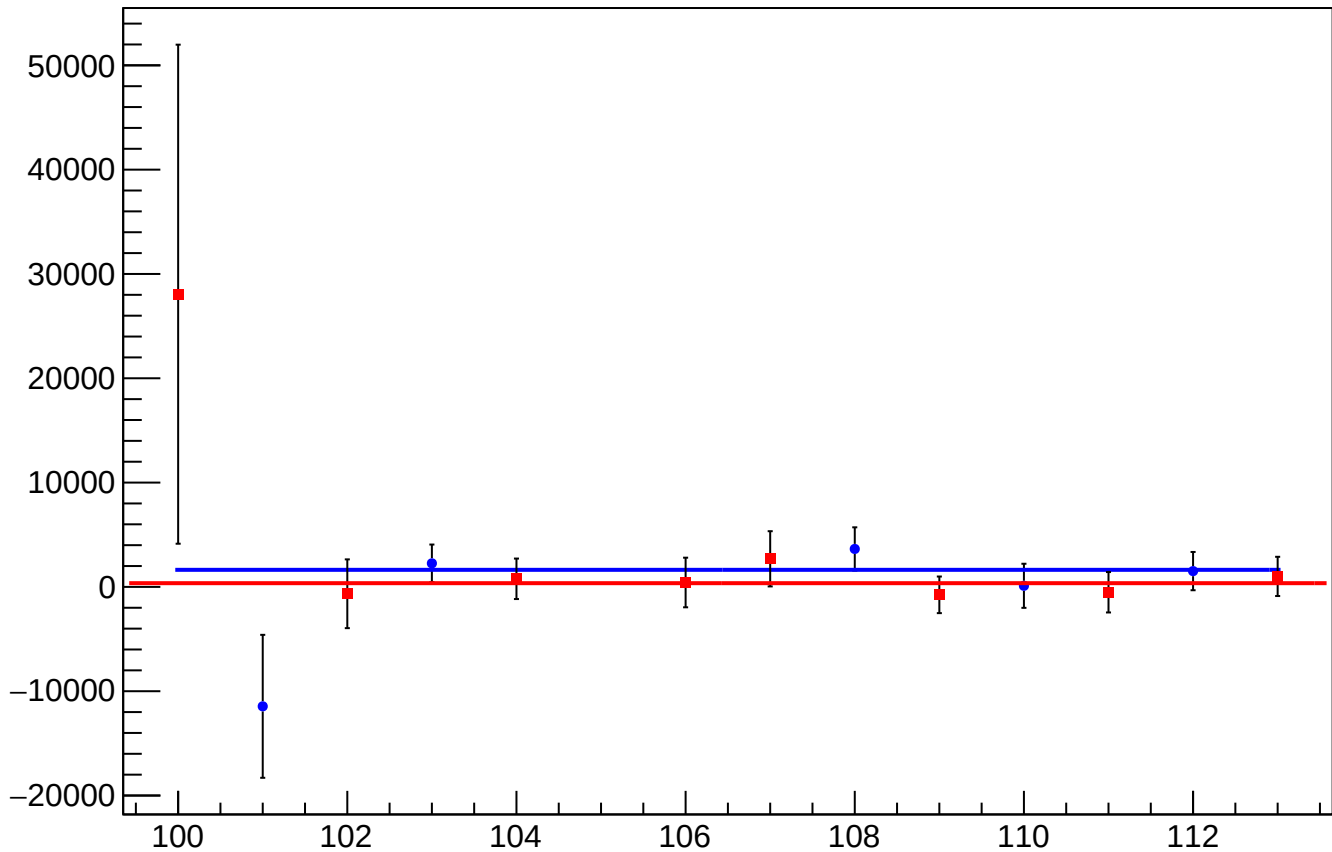
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1017.886+/-0.307  $\chi^2/\text{NDF}$ : 91940.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 1636.492 $\pm$ 960.848  $\chi^2$ /NDF: 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 357.081 $\pm$ 802.432  $\chi^2$ /NDF: 3.0/7

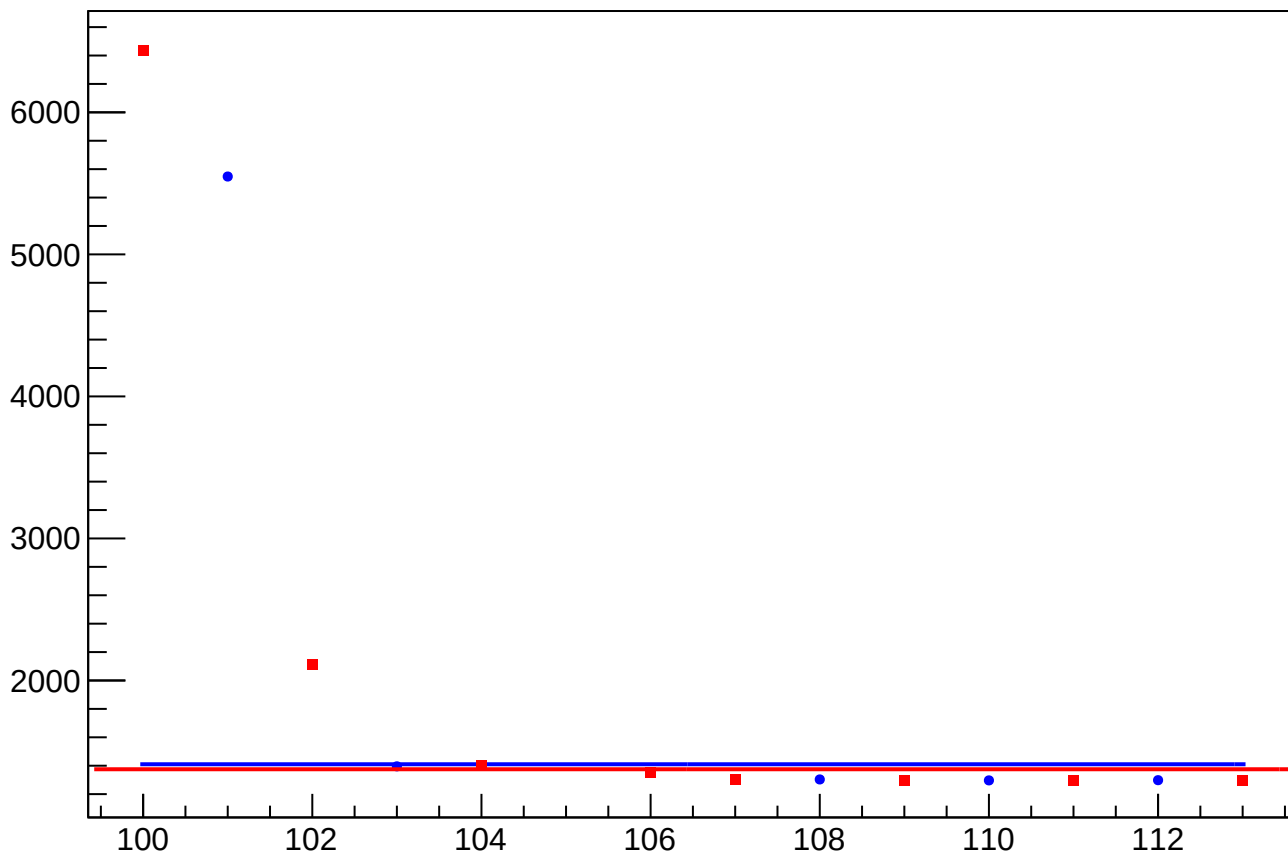
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 882.762 $\pm$ 615.901  $\chi^2$ /NDF: 9.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1410.251+/-0.679  $\chi^2/\text{NDF}$ : 747988.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1375.075+/-0.567  $\chi^2/\text{NDF}$ : 201560.3/7

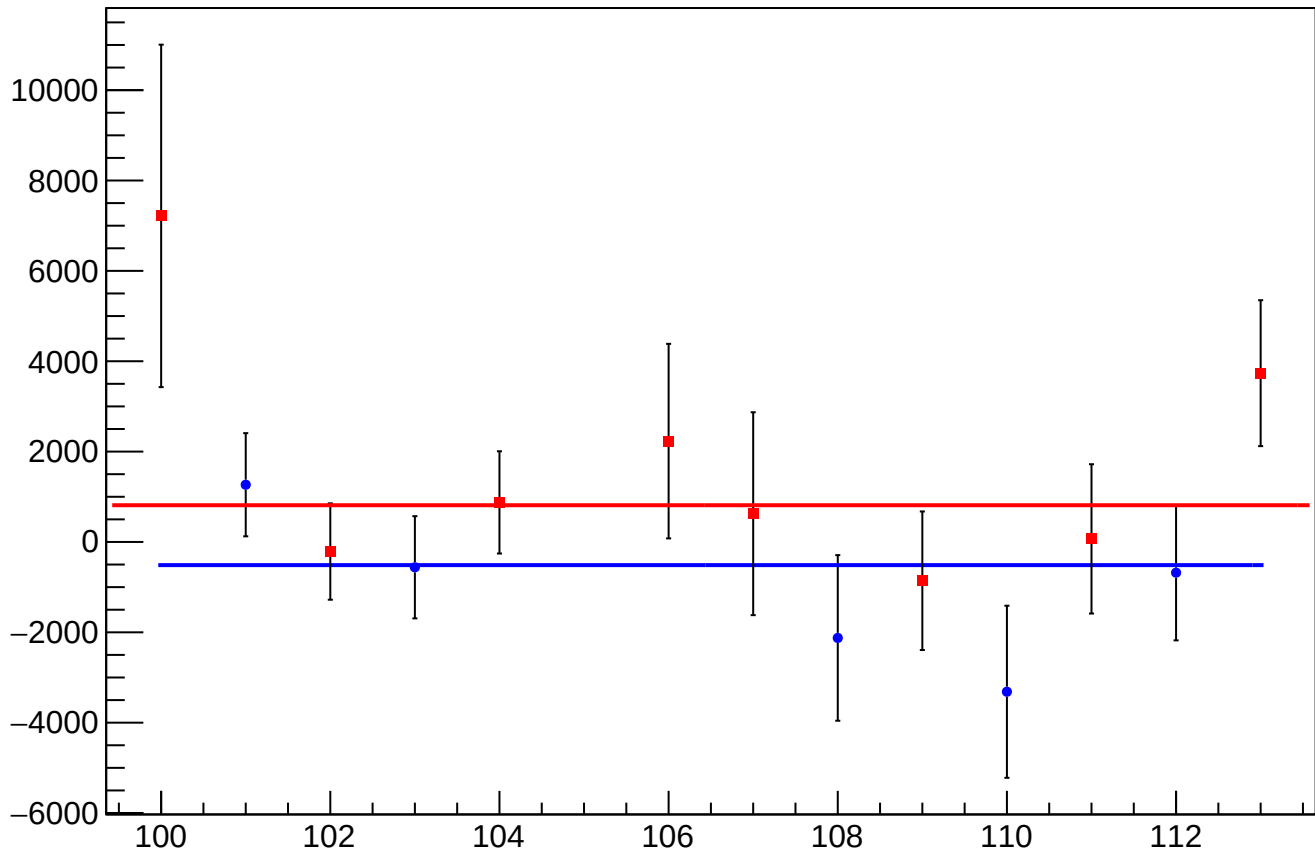
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1389.528+/-0.436  $\chi^2/\text{NDF}$ : 951128.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_dit\_correction\_mean vs Slug



Right In: -512.739+/-624.079  $\chi^2/\text{NDF}$ : 5.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 812.914+/-548.903  $\chi^2/\text{NDF}$ : 8.9/7

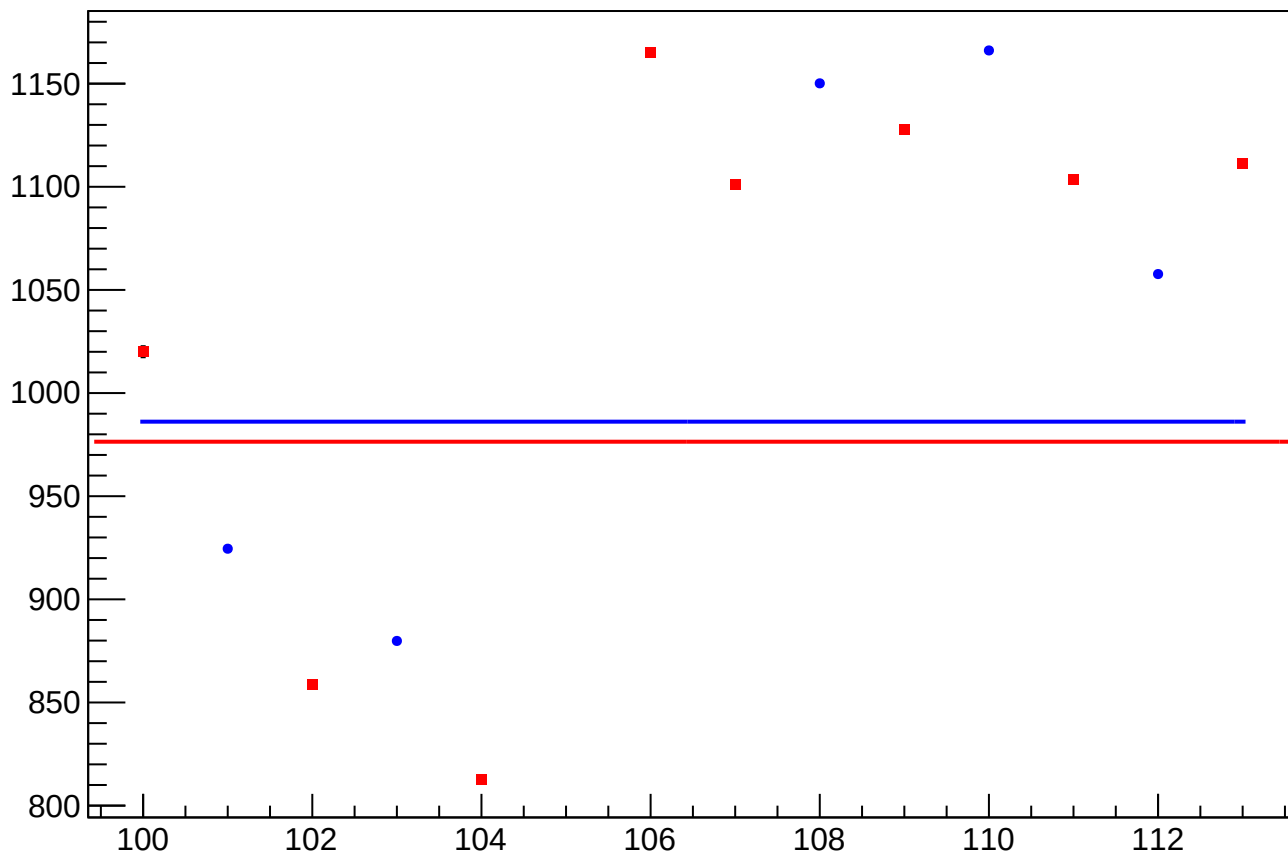
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 234.701+/-412.163  $\chi^2/\text{NDF}$ : 16.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_dit\_correction\_rms vs Slug



Right In: 986.134+/-0.441  $\chi^2/\text{NDF}$ : 61921.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 976.417+/-0.388  $\chi^2/\text{NDF}$ : 133228.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

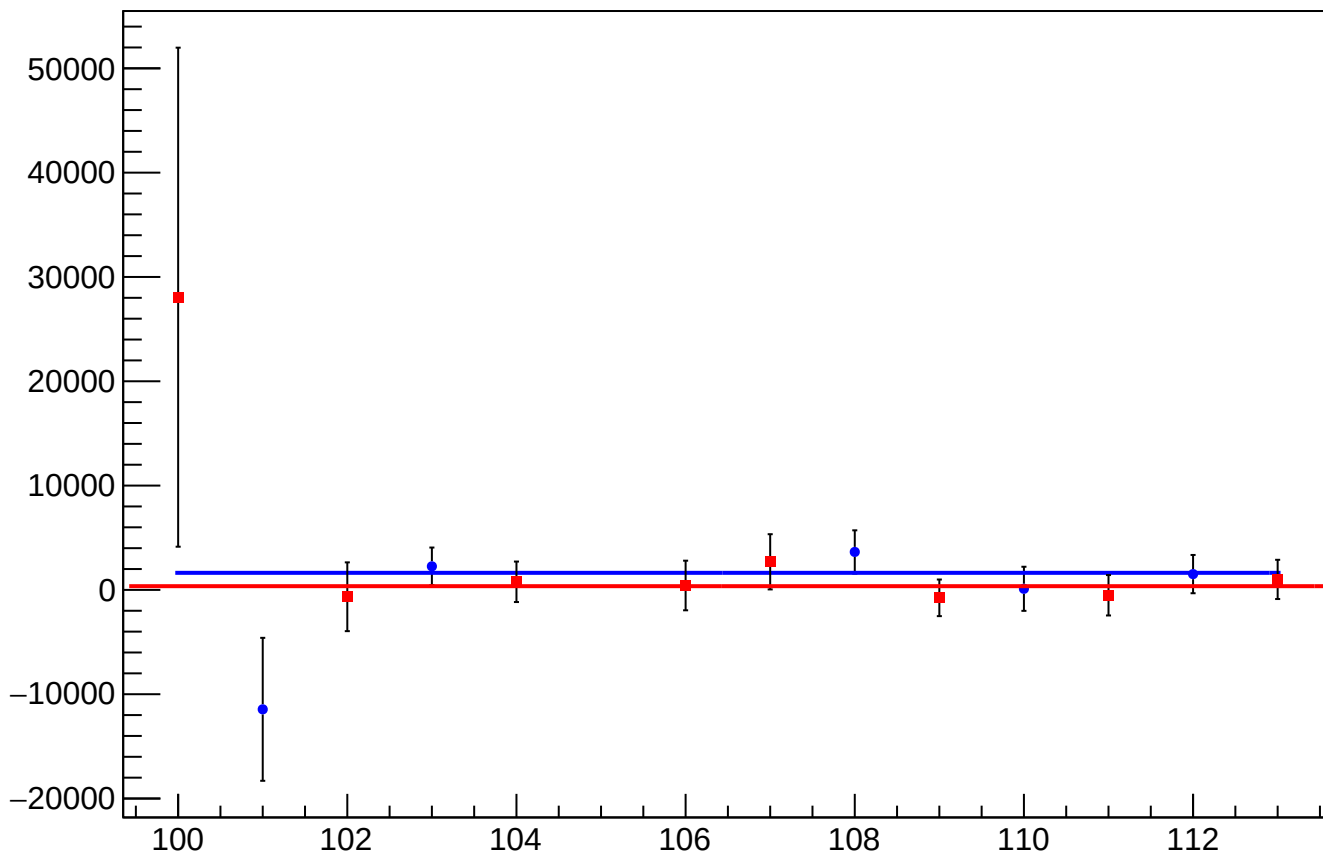
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 980.655+/-0.291  $\chi^2/\text{NDF}$ : 195423.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 1636.494 $\pm$ 960.847  $\chi^2$ /NDF: 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 357.078 $\pm$ 802.431  $\chi^2$ /NDF: 3.0/7

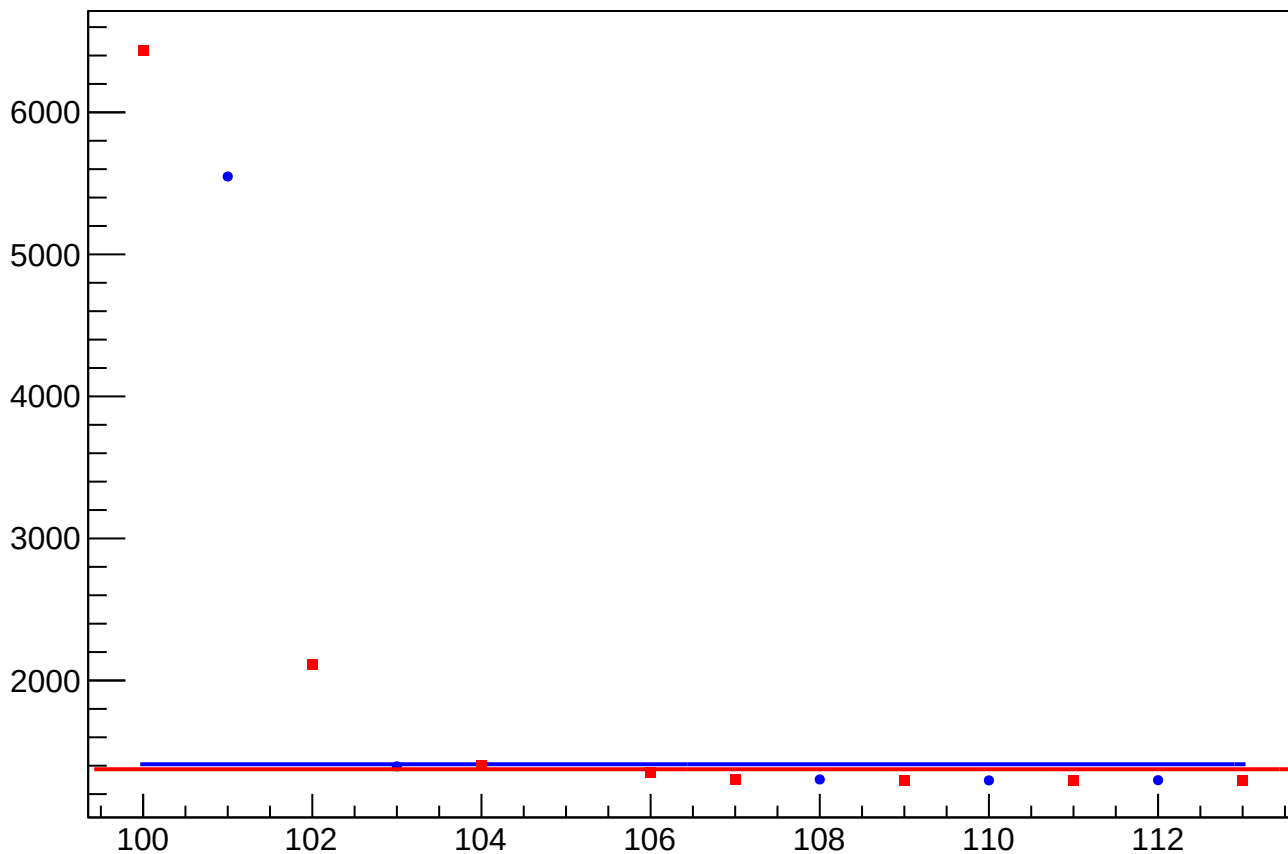
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 882.762 $\pm$ 615.901  $\chi^2$ /NDF: 9.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1410.251+/-0.679  $\chi^2/\text{NDF}$ : 747988.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1375.075+/-0.567  $\chi^2/\text{NDF}$ : 201560.2/7

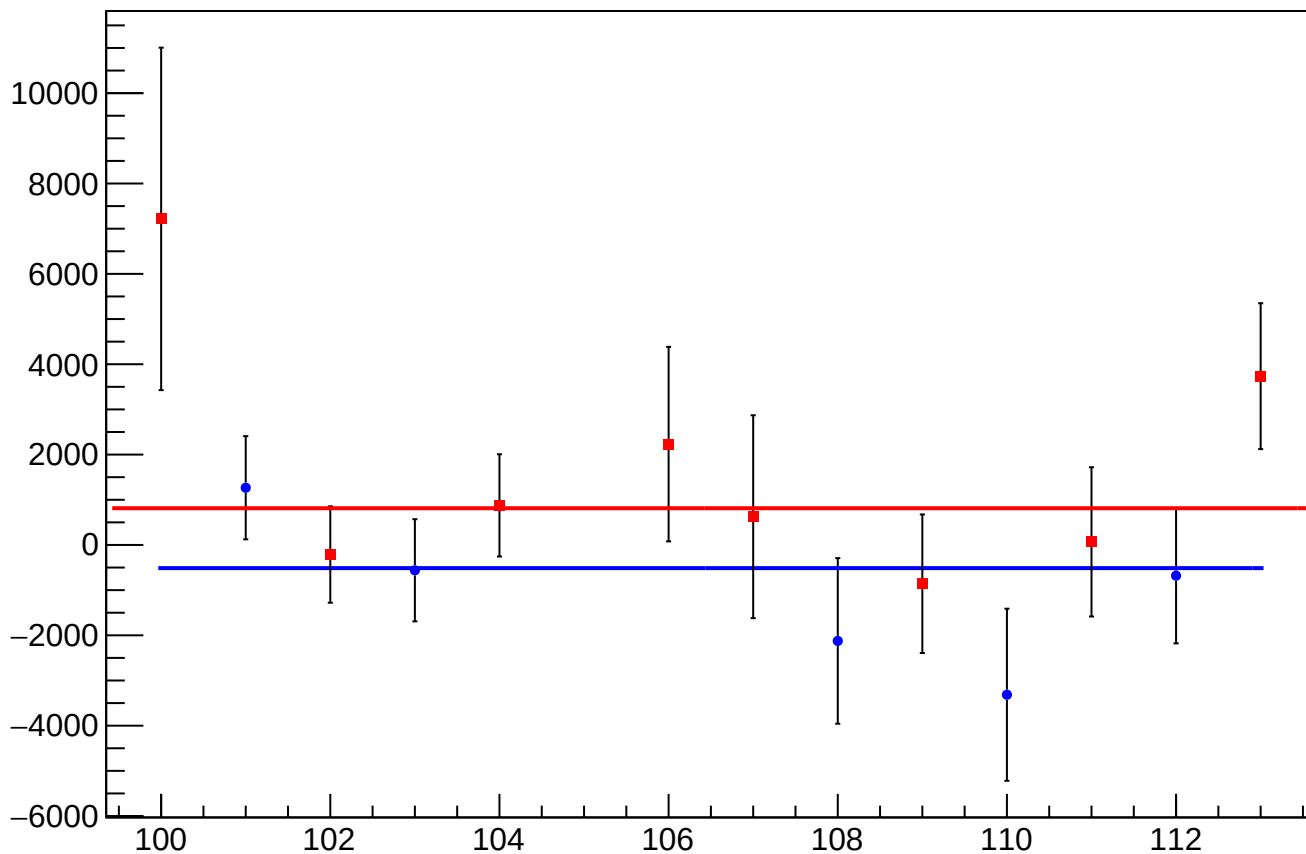
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1389.528+/-0.436  $\chi^2/\text{NDF}$ : 951128.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -512.740 $\pm$ 624.079  $\chi^2$ /NDF: 5.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 812.915 $\pm$ 548.903  $\chi^2$ /NDF: 8.9/7

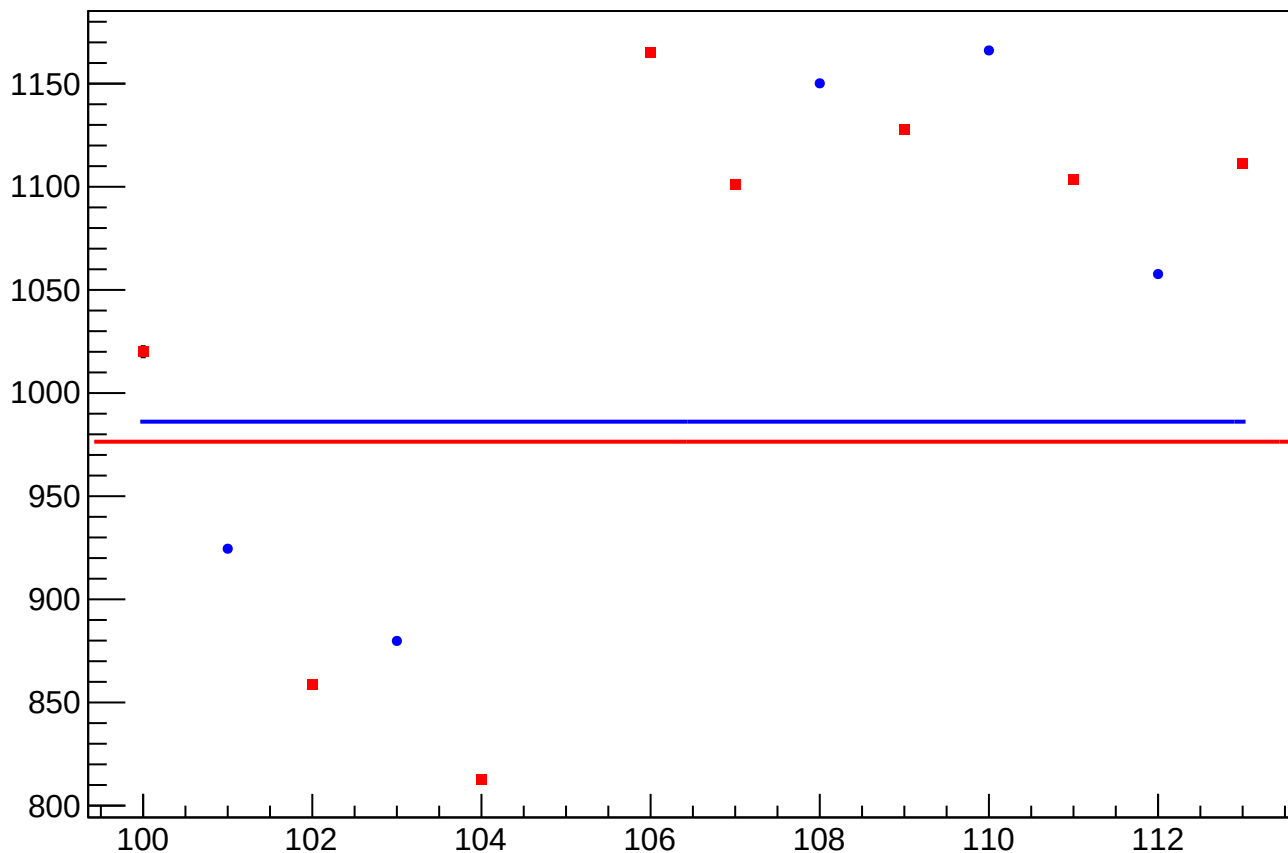
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 234.701 $\pm$ 412.163  $\chi^2$ /NDF: 16.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 986.133+/-0.441  $\chi^2/\text{NDF}$ : 61919.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 976.418+/-0.388  $\chi^2/\text{NDF}$ : 133224.8/7

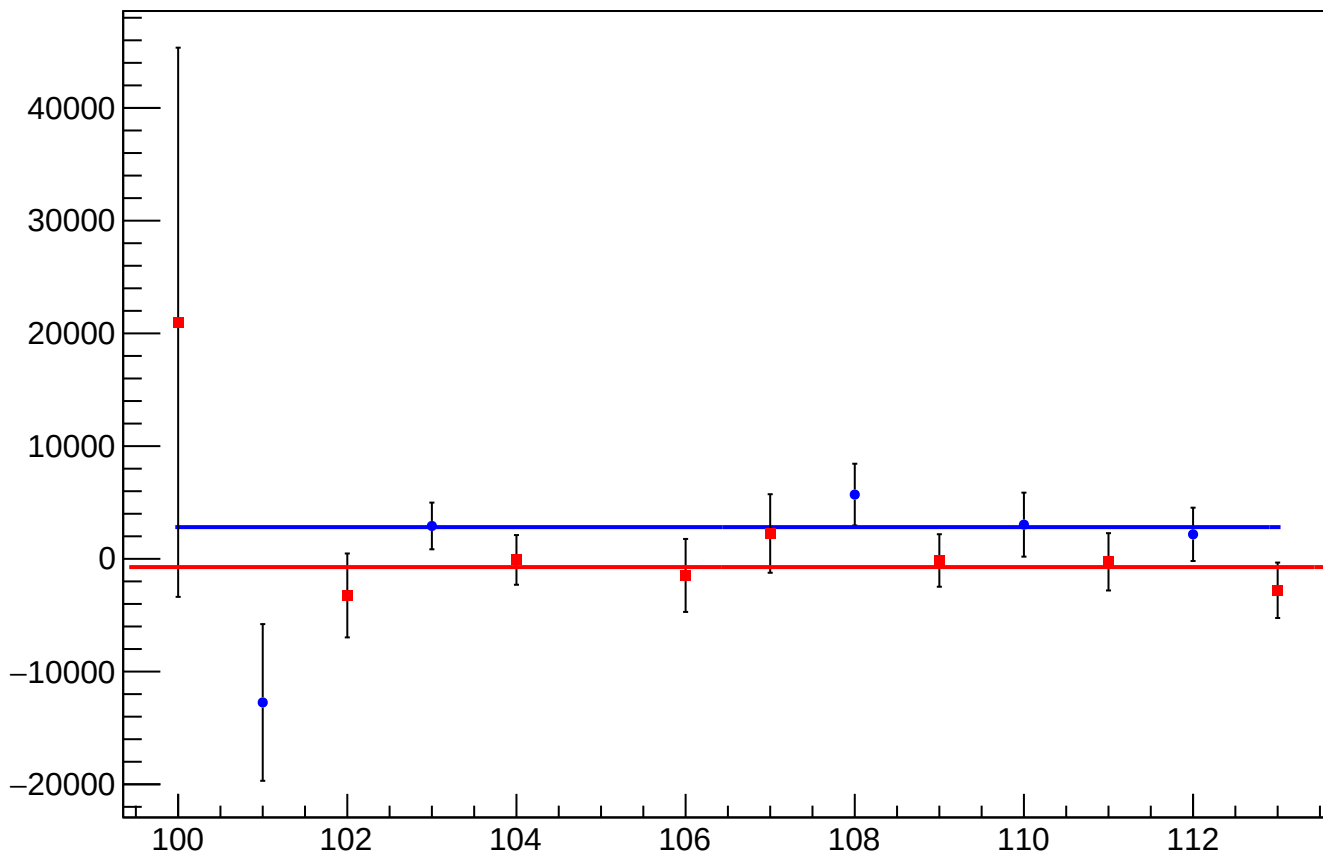
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 980.655+/-0.291  $\chi^2/\text{NDF}$ : 195417.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 2814.377+/-1203.718  $\chi^2/\text{NDF}$ : 6.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -730.004+/-1019.561  $\chi^2/\text{NDF}$ : 2.9/7

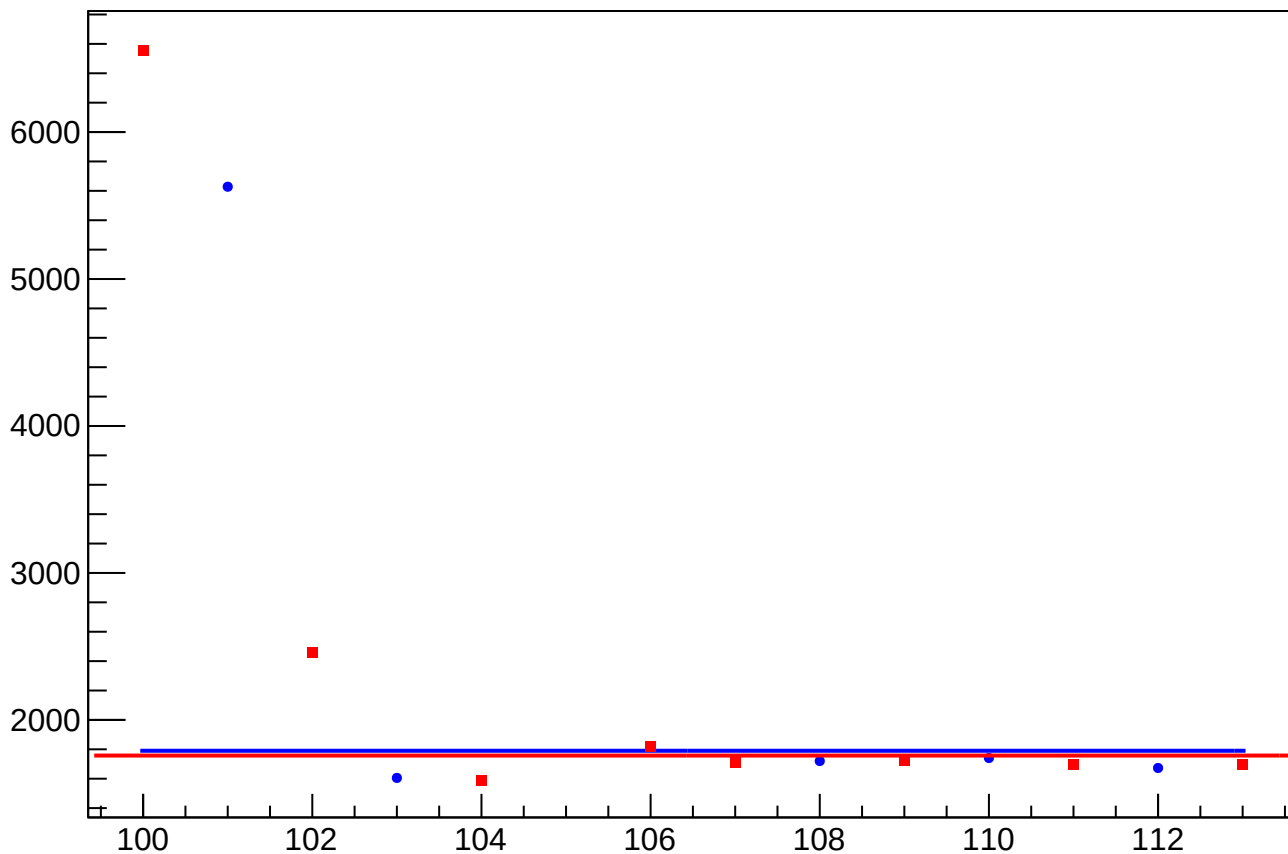
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 750.602+/-777.990  $\chi^2/\text{NDF}$ : 14.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1790.112 $\pm$ 0.851  $\chi^2$ /NDF: 632511.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1757.477 $\pm$ 0.721  $\chi^2$ /NDF: 164048.4/7

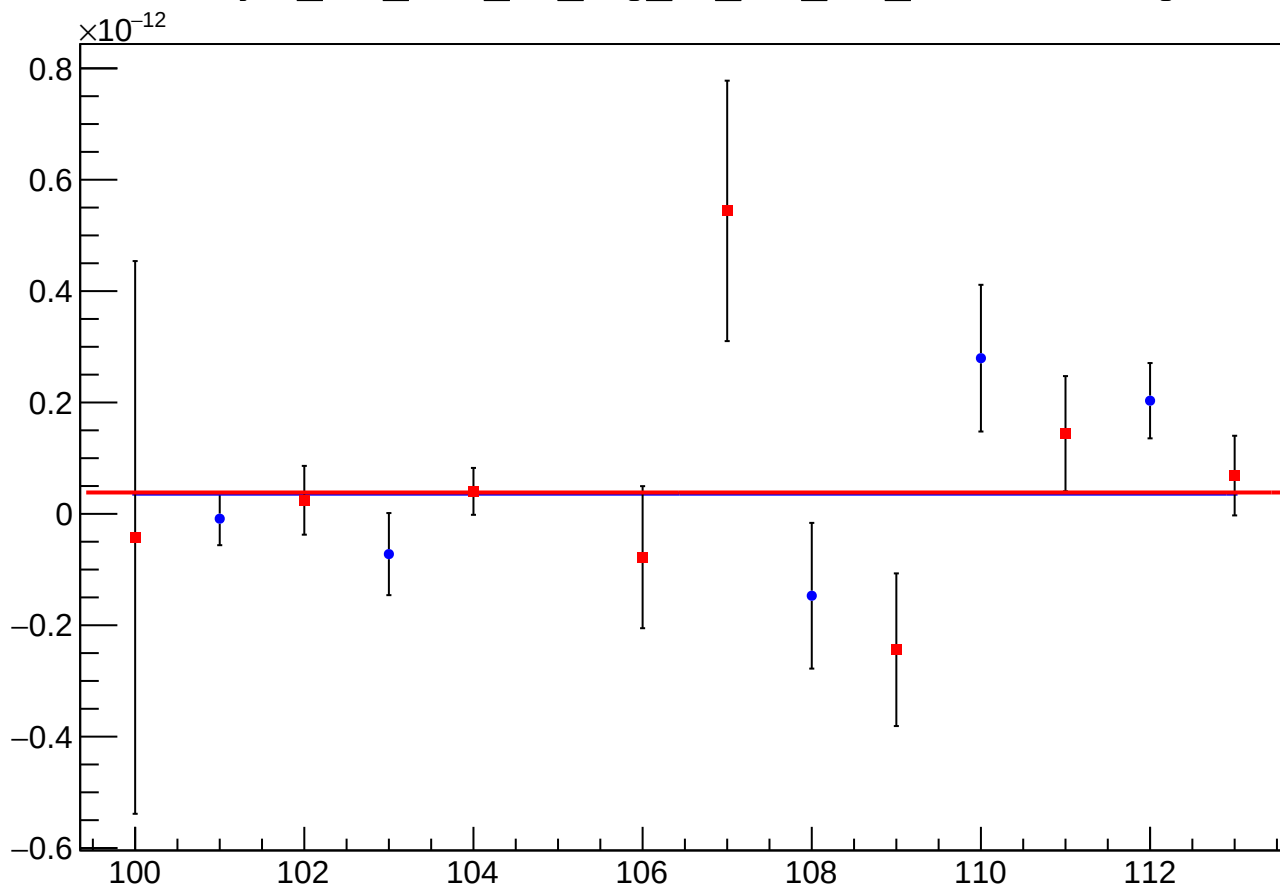
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1771.110 $\pm$ 0.550  $\chi^2$ /NDF: 797416.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 14.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 11.1/7

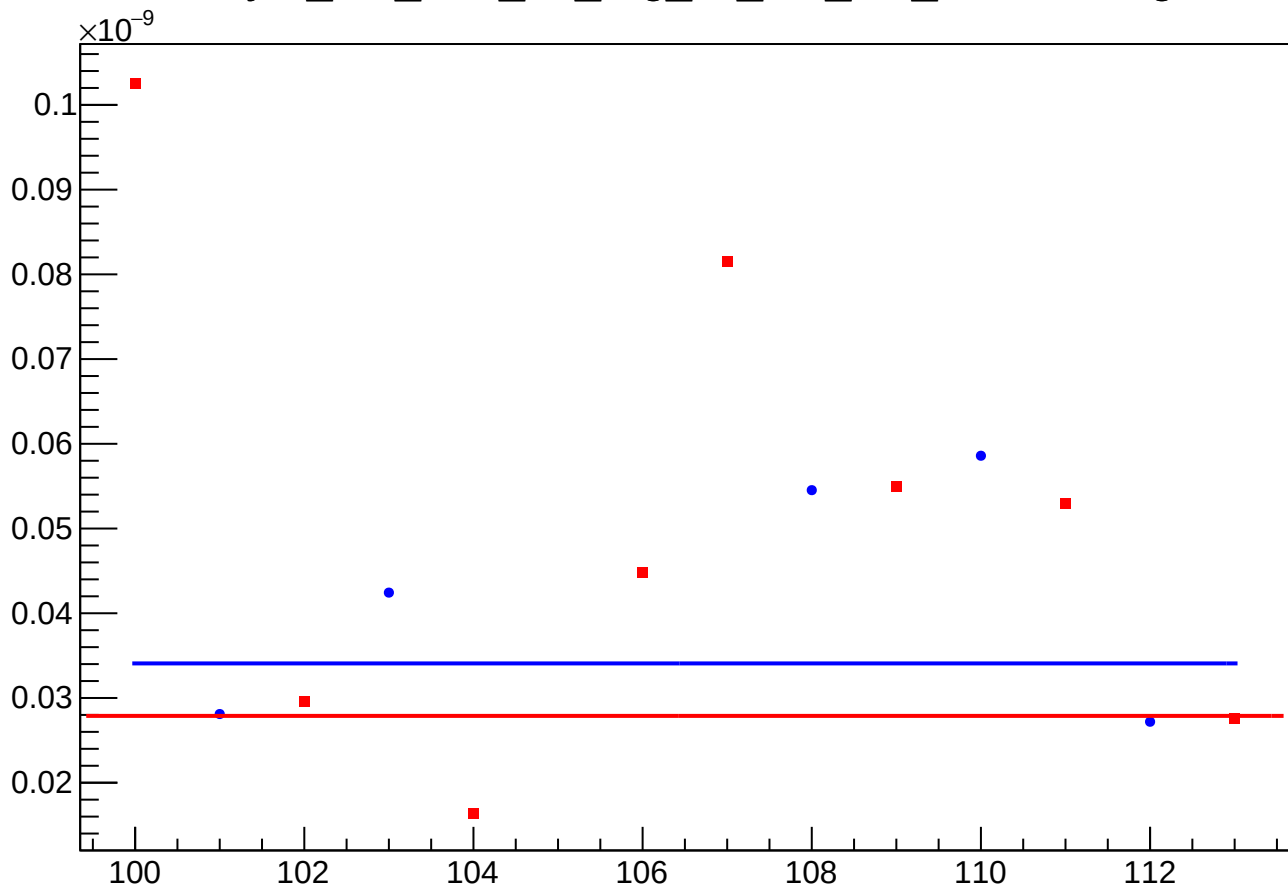
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 25.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 196081.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 533239.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

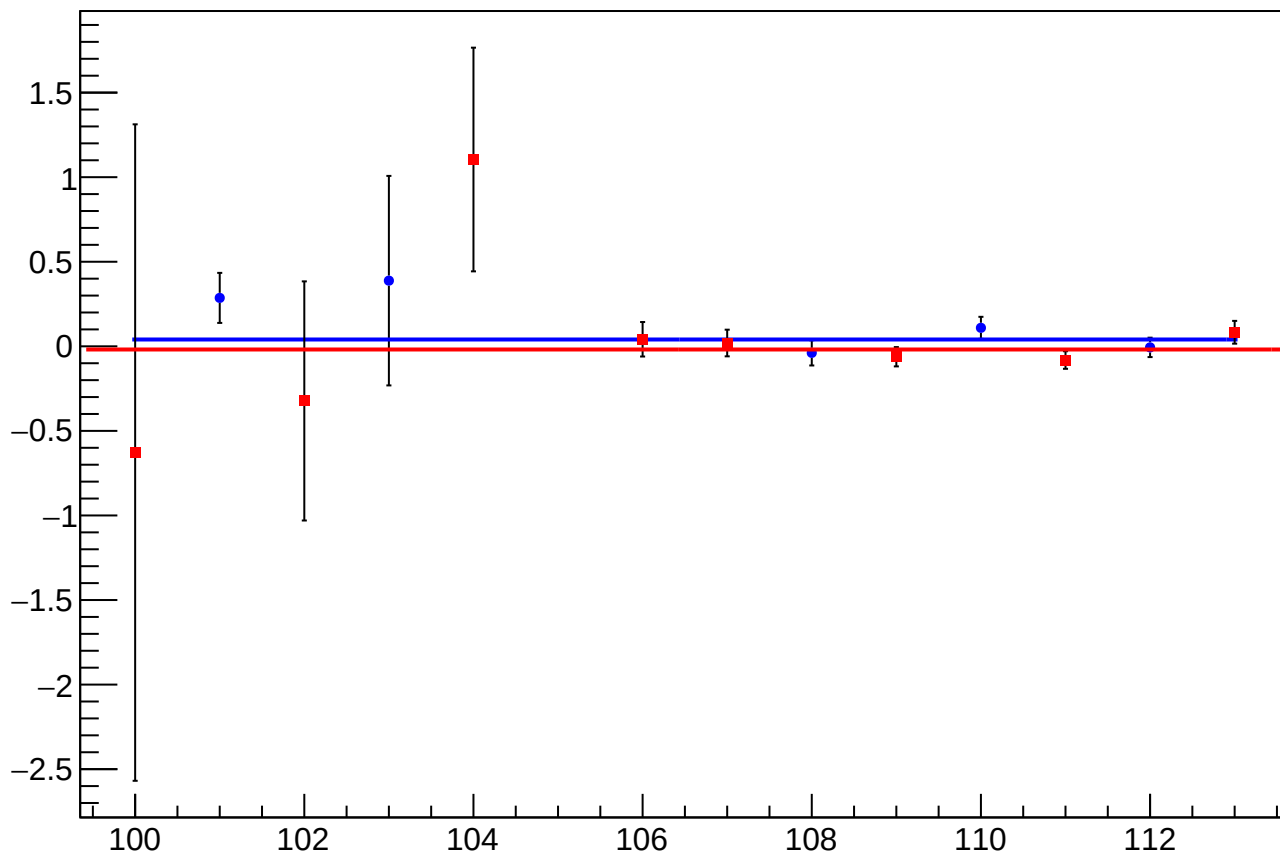
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 771026.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_usr\_atr1\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.040 $\pm$ 0.036  $\chi^2$ /NDF: 6.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.019 $\pm$ 0.029  $\chi^2$ /NDF: 8.0/7

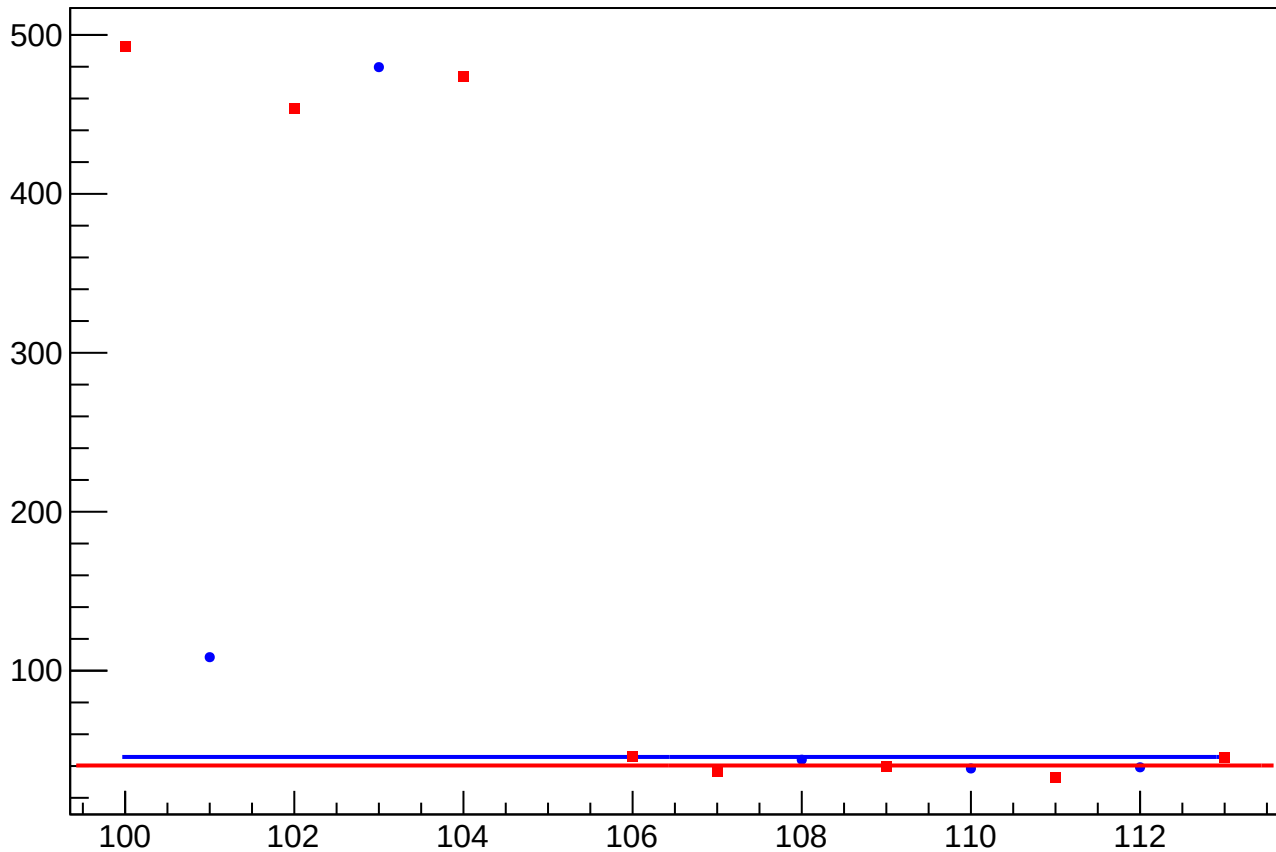
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.023  $\chi^2$ /NDF: 15.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr1\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 45.720 $\pm$ 0.026  $\chi^2$ /NDF: 1393909.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 40.347 $\pm$ 0.021  $\chi^2$ /NDF: 1715879.8/7

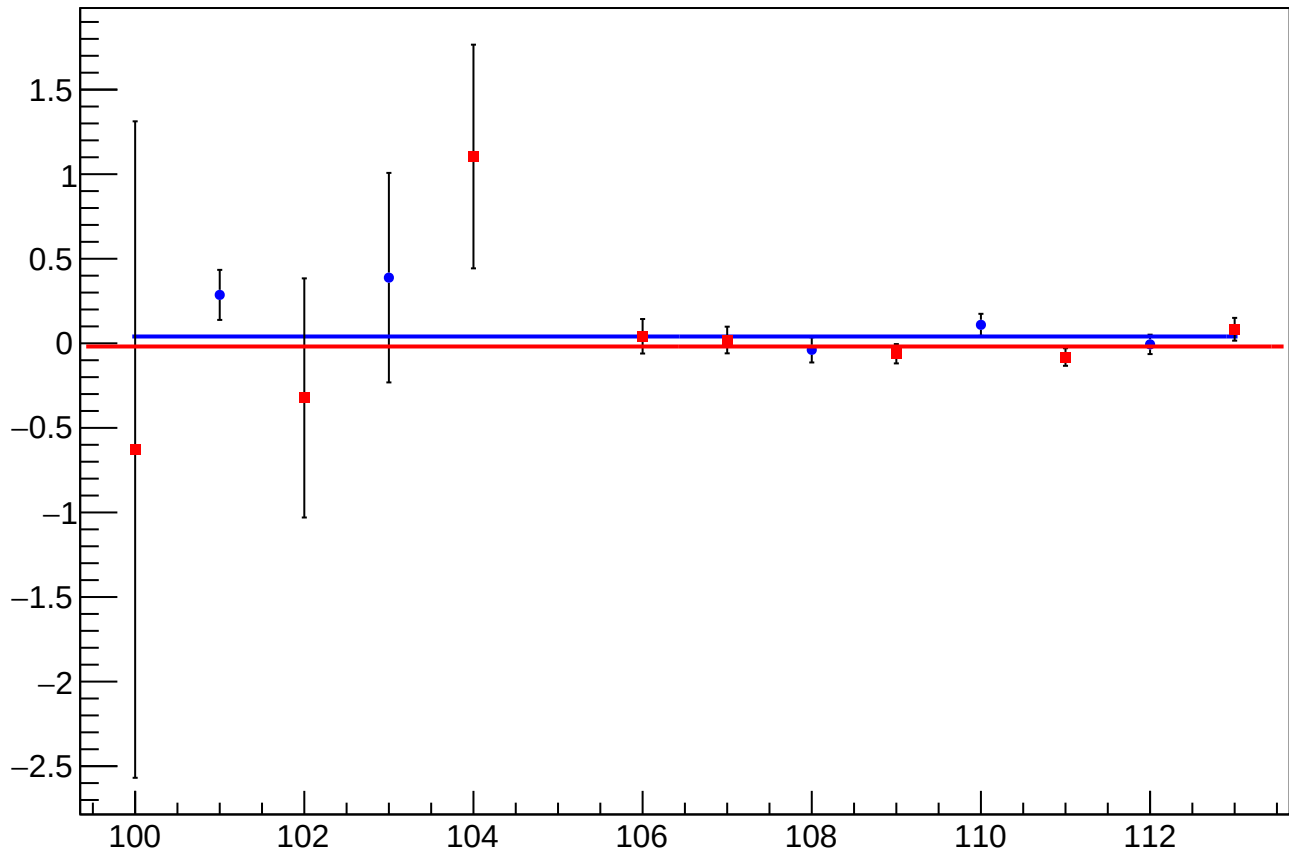
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 42.487 $\pm$ 0.016  $\chi^2$ /NDF: 3136471.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.040 $\pm$ 0.036  $\chi^2$ /NDF: 6.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.019 $\pm$ 0.029  $\chi^2$ /NDF: 8.0/7

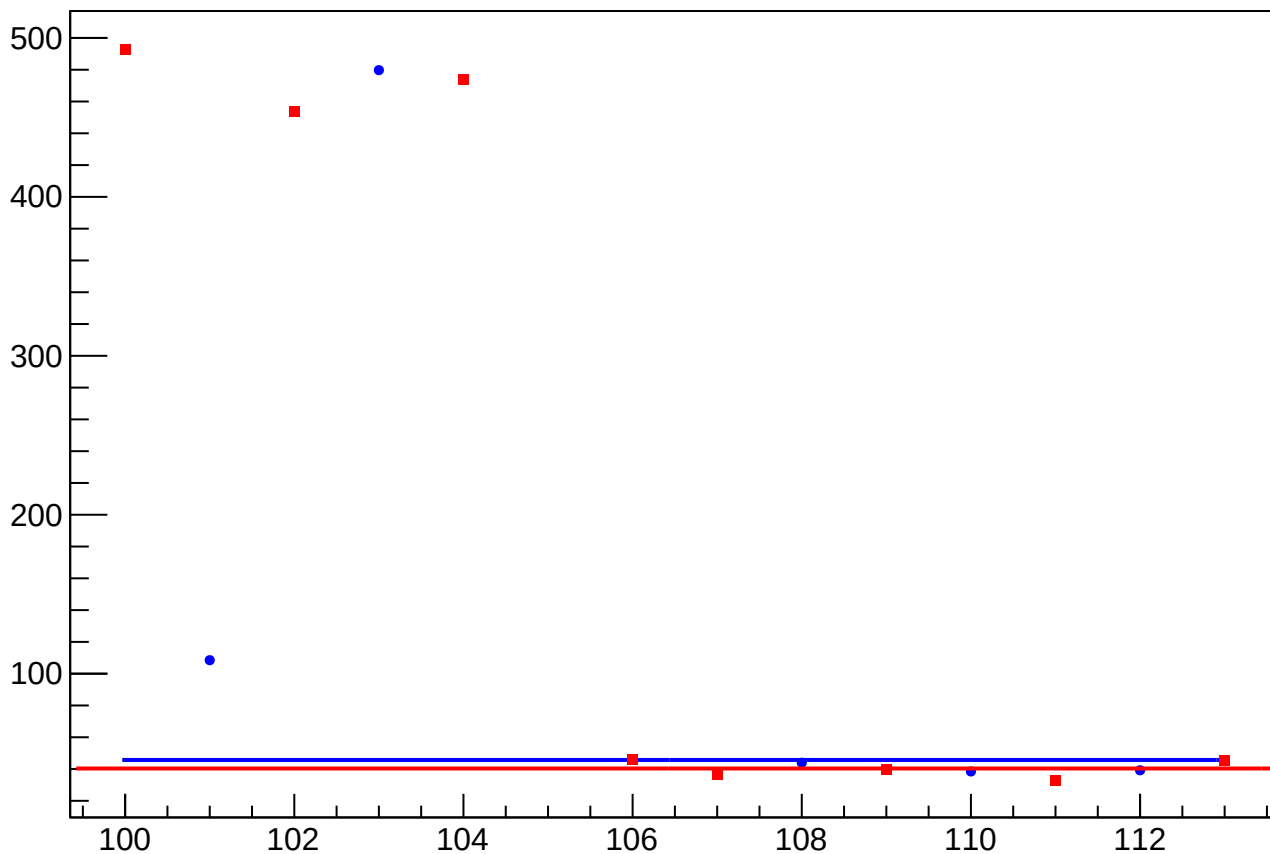
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.023  $\chi^2$ /NDF: 15.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 45.720 $\pm$ 0.026  $\chi^2$ /NDF: 1393909.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 40.347 $\pm$ 0.021  $\chi^2$ /NDF: 1715879.8/7

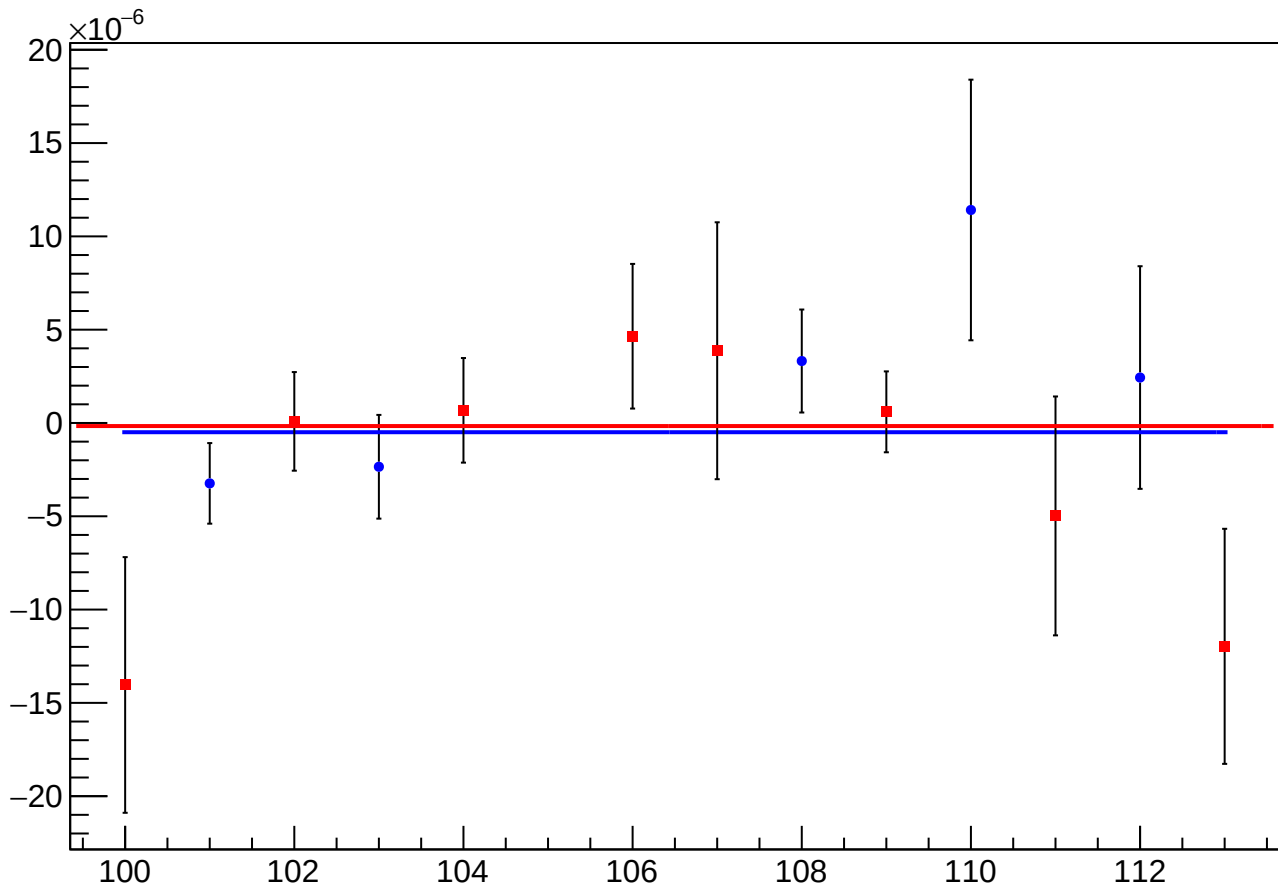
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 42.487 $\pm$ 0.016  $\chi^2$ /NDF: 3136471.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.3/7

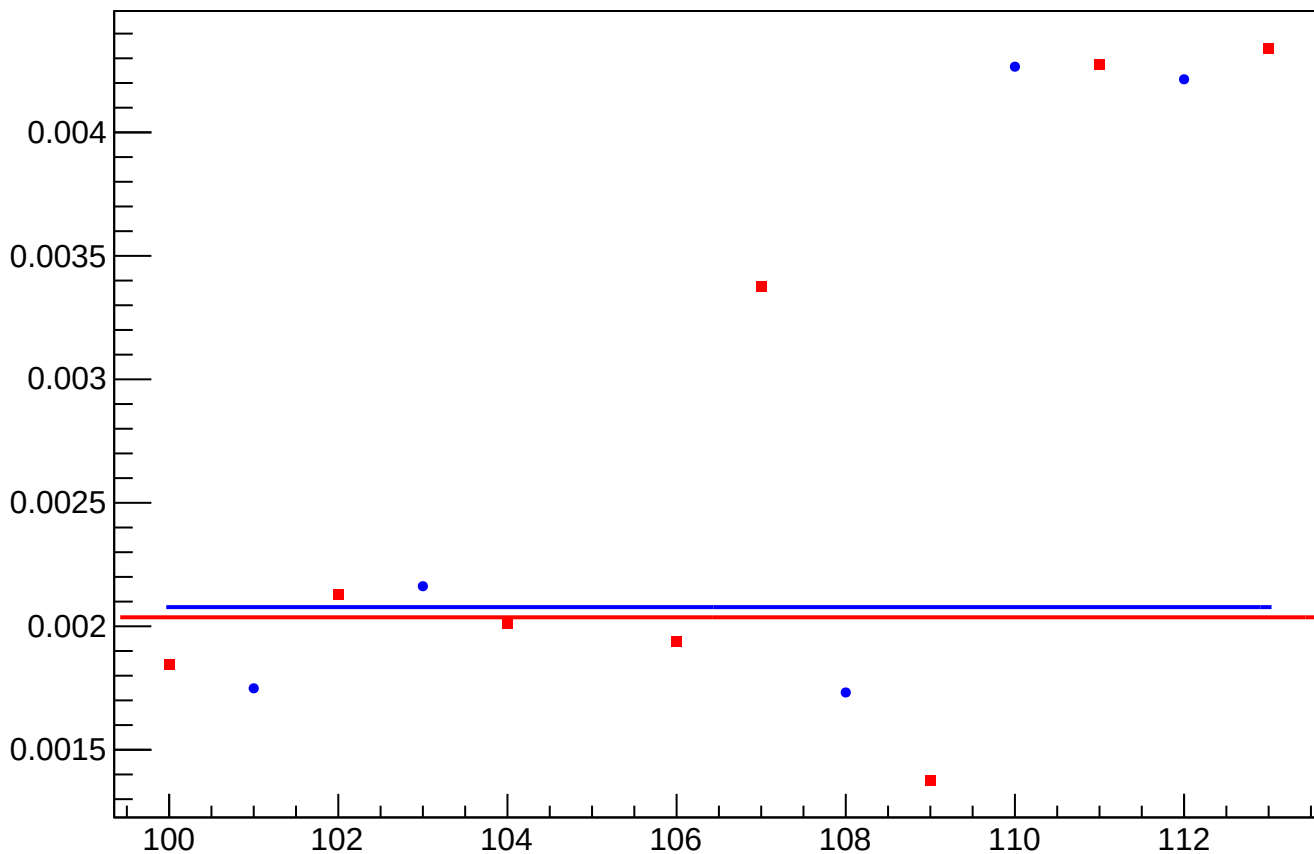
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 532743.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 778684.8/7

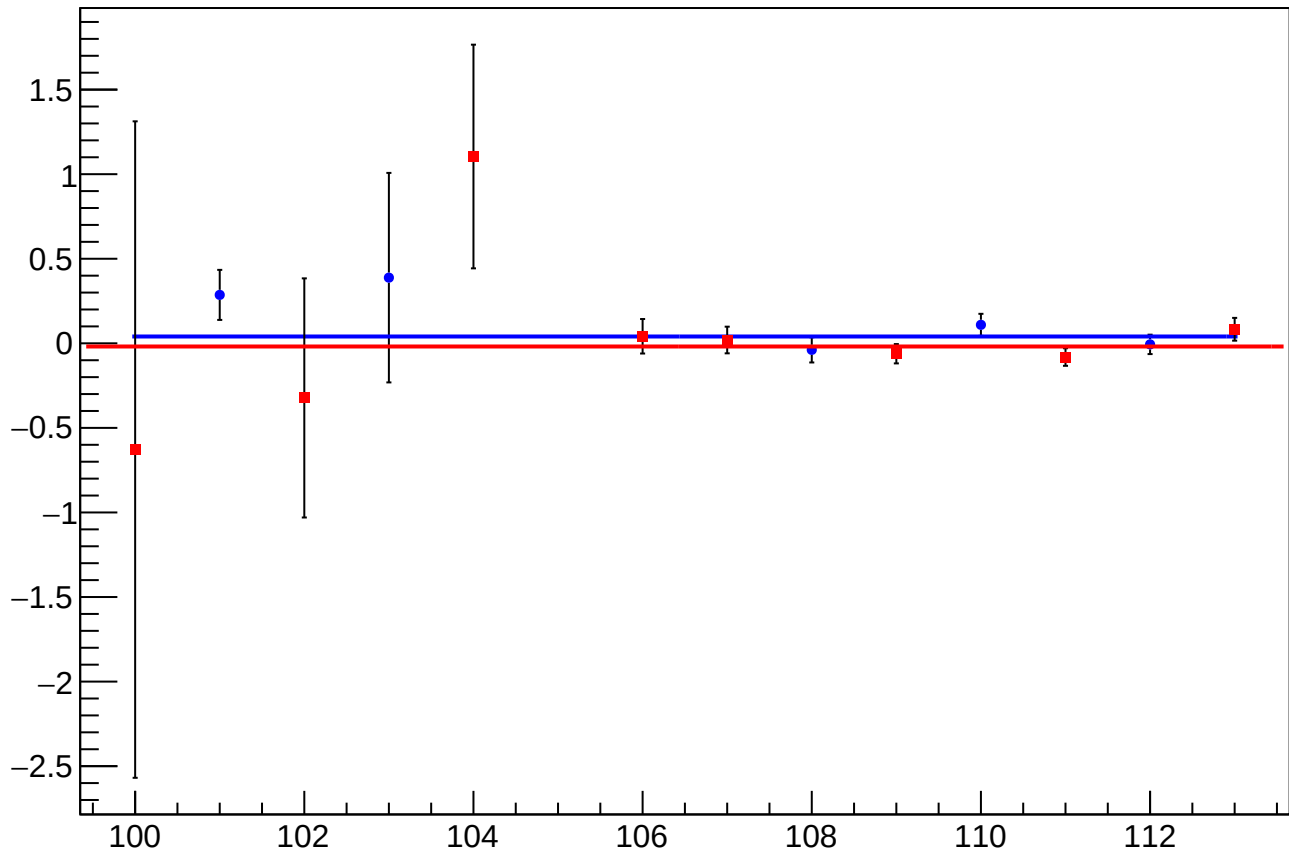
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1312408.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.040 $\pm$ 0.036  $\chi^2$ /NDF: 6.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.019 $\pm$ 0.029  $\chi^2$ /NDF: 8.0/7

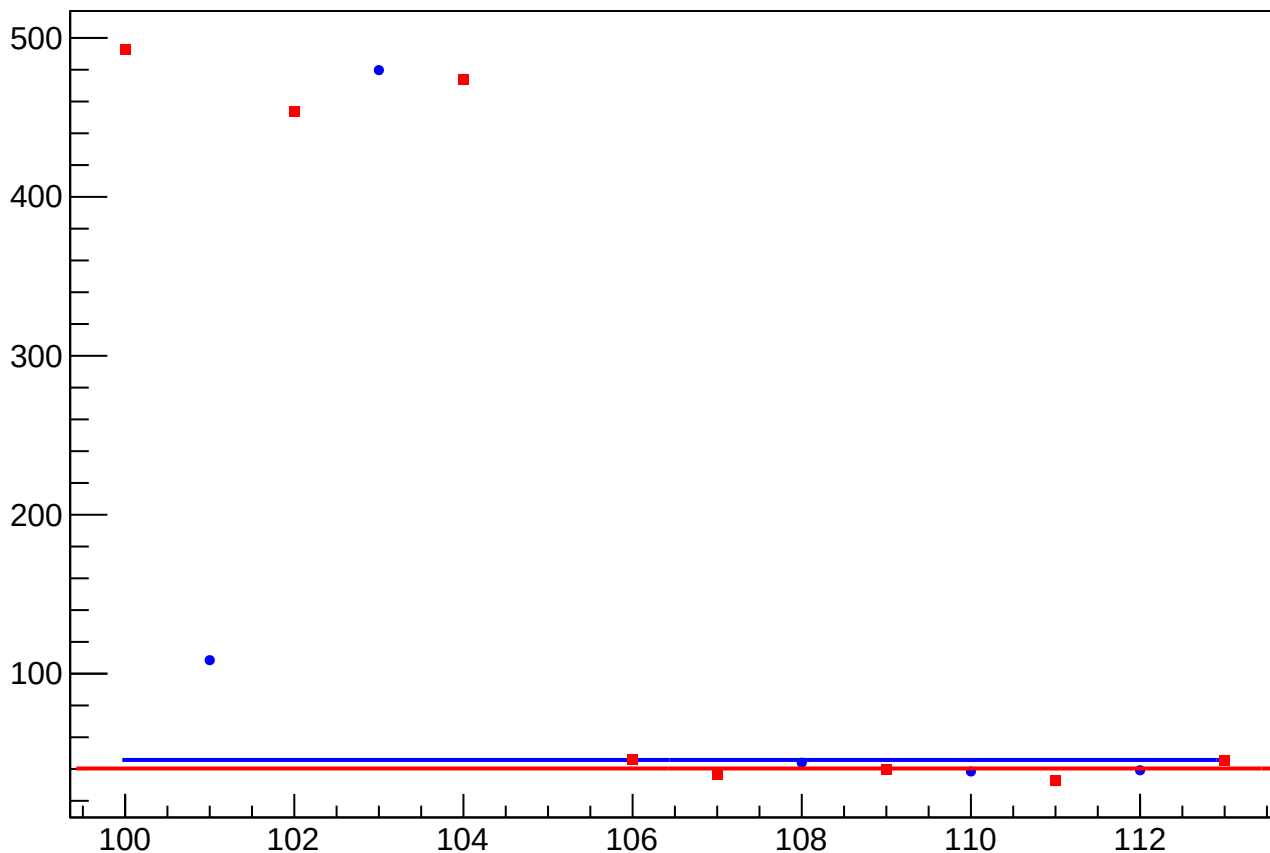
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.023  $\chi^2$ /NDF: 15.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 45.719+/-0.026  $\chi^2/\text{NDF}$ : 1393916.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 40.347+/-0.021  $\chi^2/\text{NDF}$ : 1715877.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

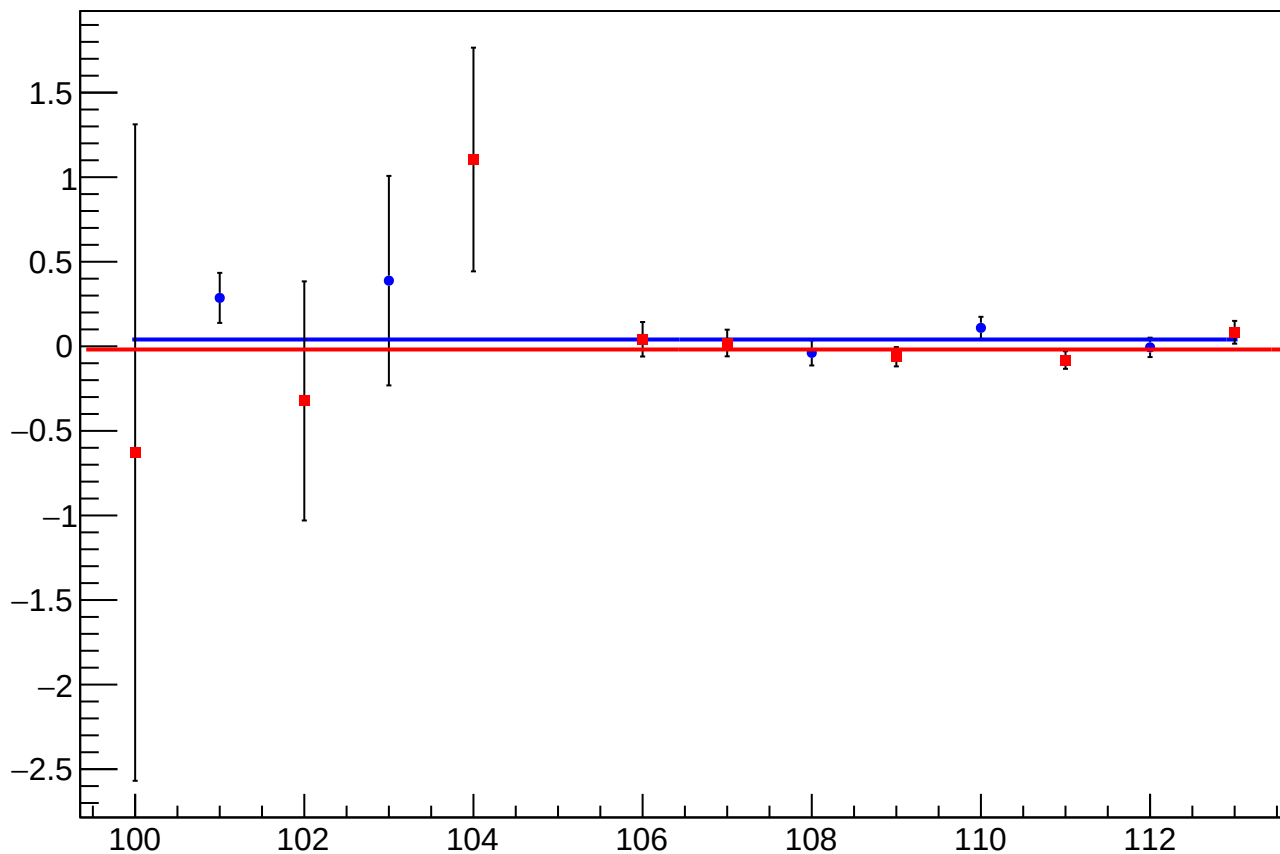
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 42.487+/-0.016  $\chi^2/\text{NDF}$ : 3136478.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.040 $\pm$ 0.036  $\chi^2$ /NDF: 6.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.019 $\pm$ 0.029  $\chi^2$ /NDF: 8.0/7

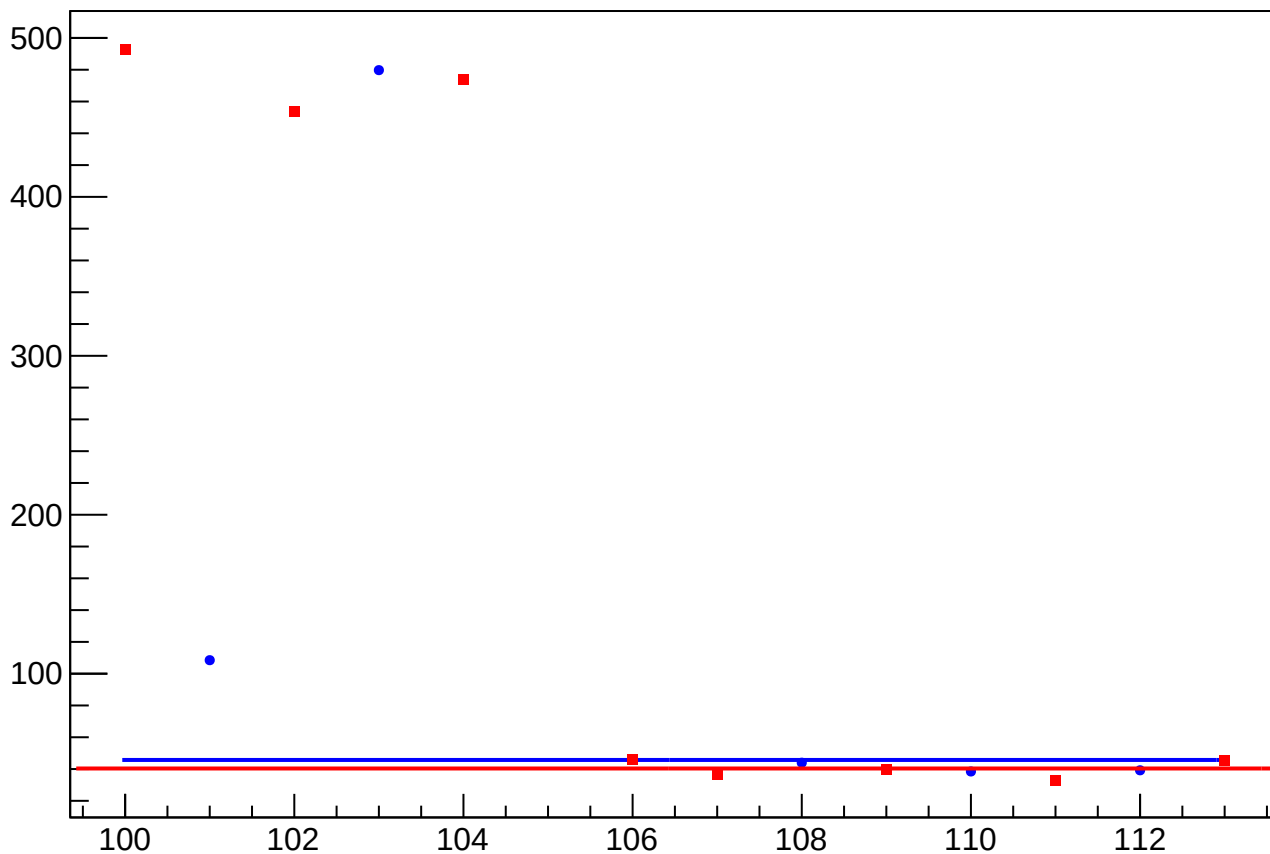
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.023  $\chi^2$ /NDF: 15.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 45.719+/-0.026  $\chi^2/\text{NDF}$ : 1393916.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 40.347+/-0.021  $\chi^2/\text{NDF}$ : 1715877.8/7

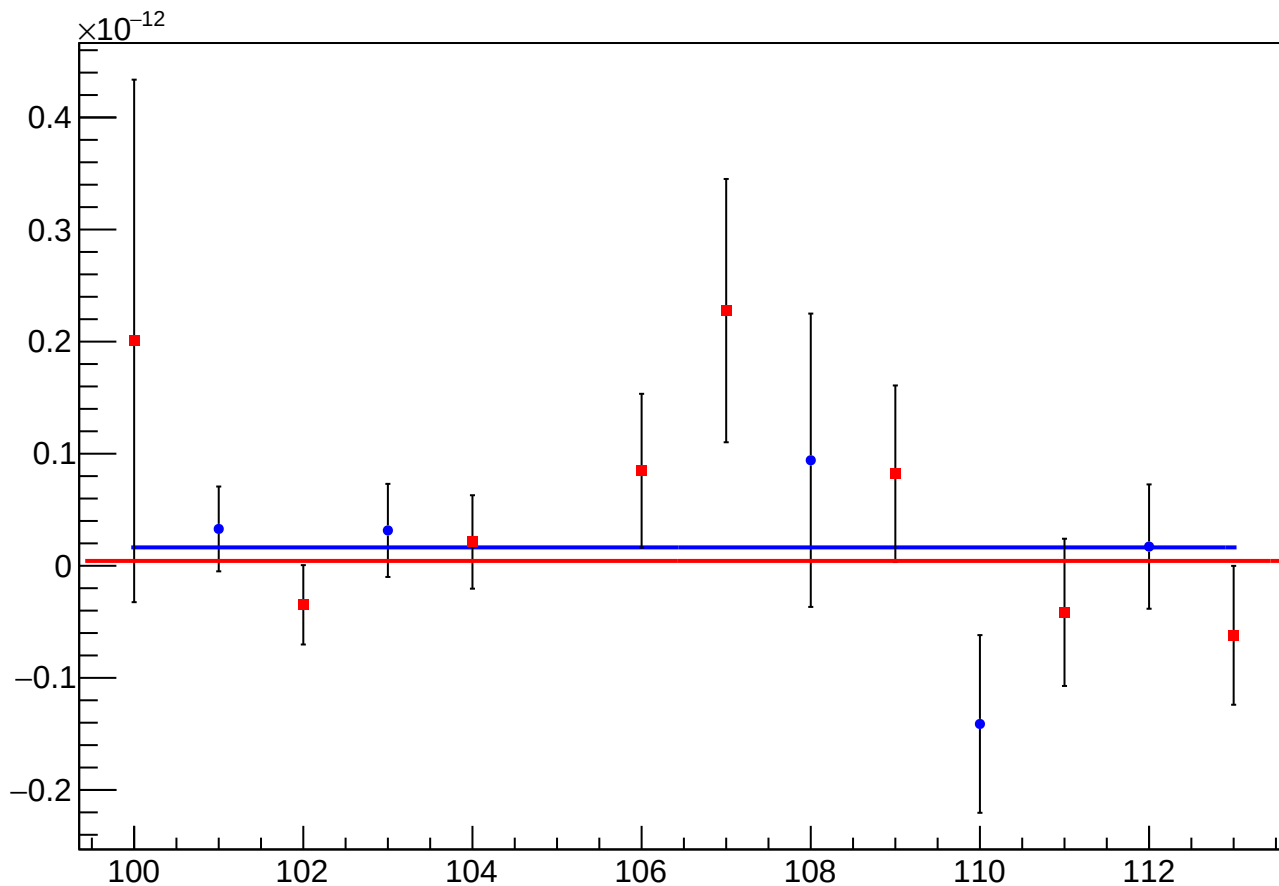
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 42.487+/-0.016  $\chi^2/\text{NDF}$ : 3136478.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.7/7

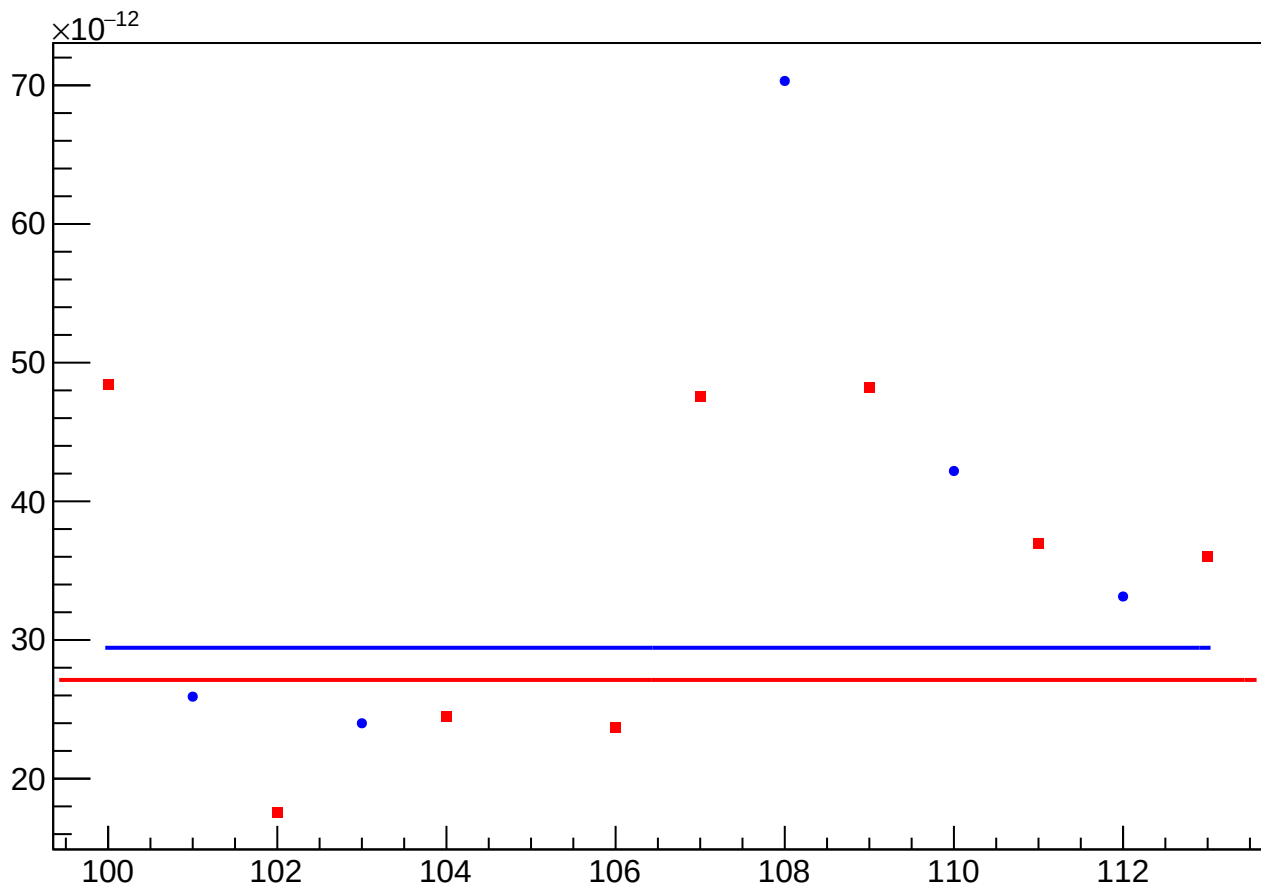
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 307526.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 466139.6/7

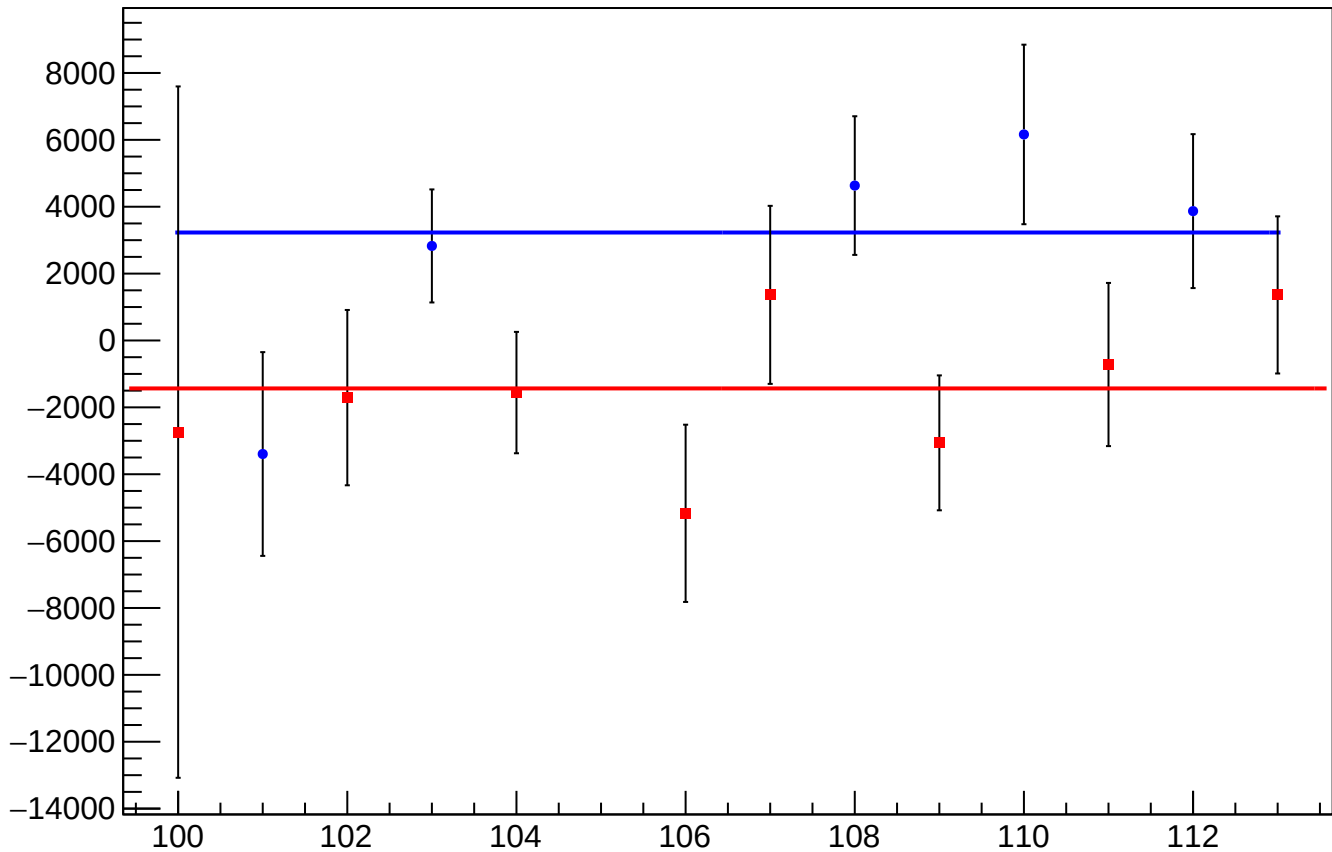
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 784662.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr2\_avg\_mean vs Slug



Right In: 3229.119+/-991.203  $\chi^2/\text{NDF}$ : 6.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1433.996+/-864.974  $\chi^2/\text{NDF}$ : 5.3/7

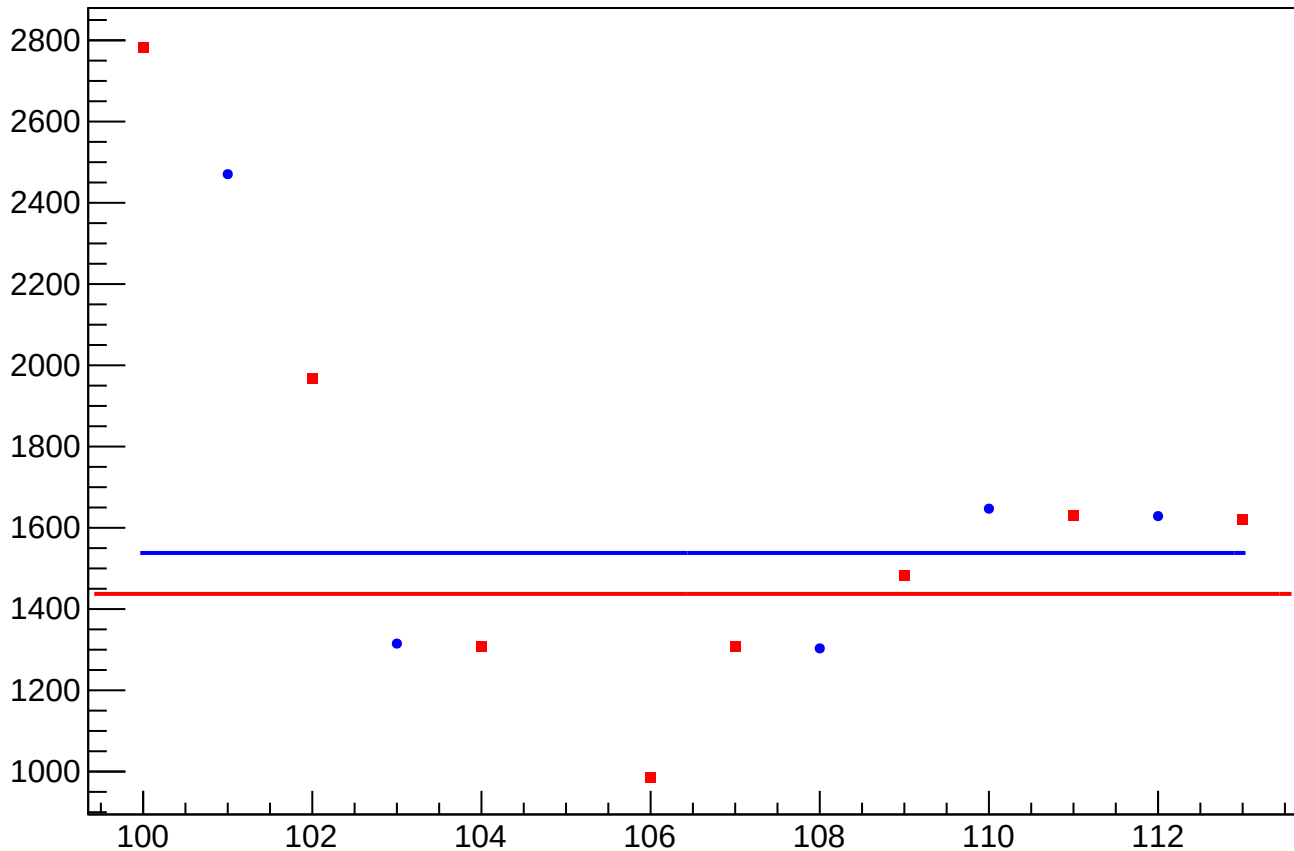
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 581.908+/-651.717  $\chi^2/\text{NDF}$ : 24.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1538.108 $\pm$ 0.701  $\chi^2$ /NDF: 254186.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1437.337 $\pm$ 0.590  $\chi^2$ /NDF: 254484.8/7

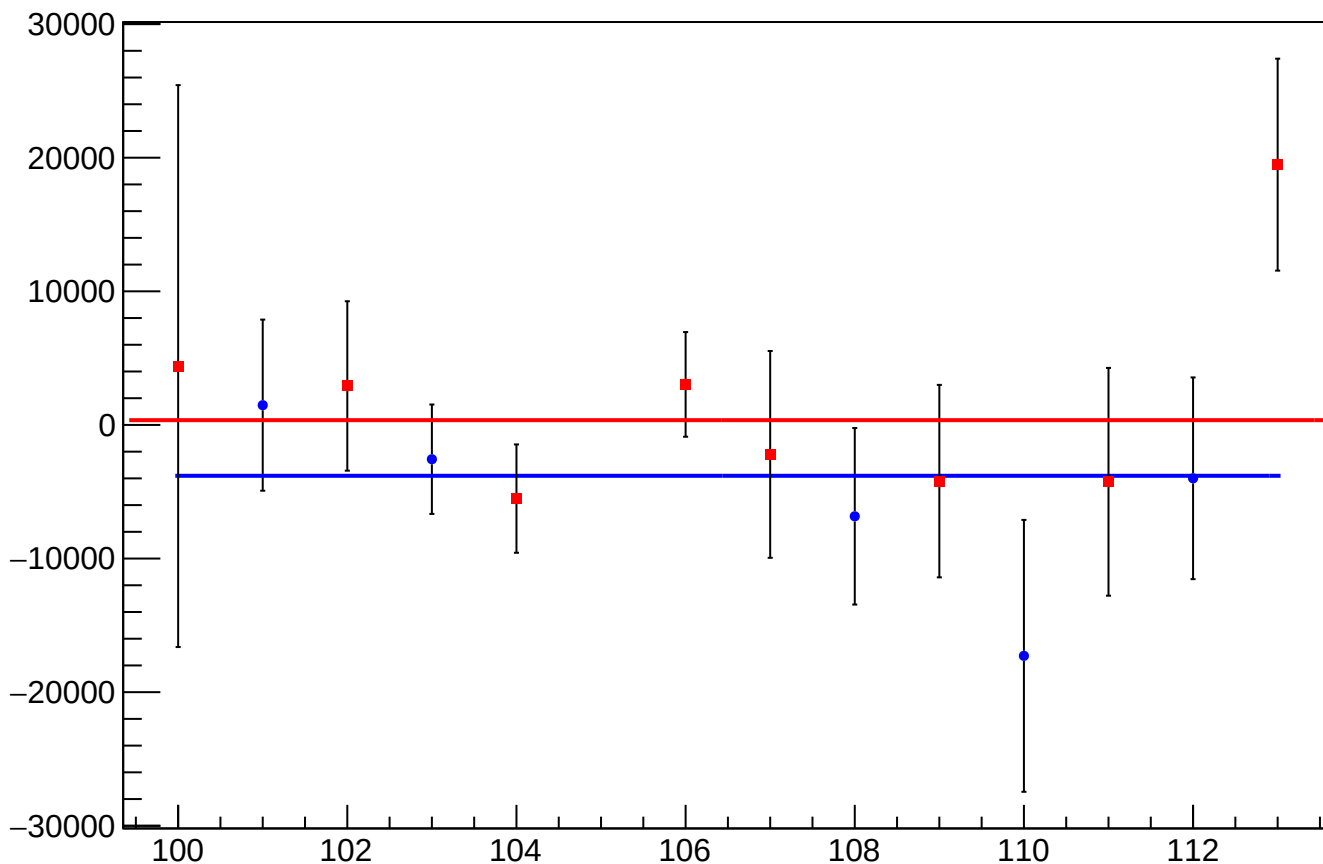
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1479.143 $\pm$ 0.451  $\chi^2$ /NDF: 520766.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_avg\_reg\_correction\_mean vs Slug



Right In: -3806.282 $\pm$ 2729.735  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 357.299 $\pm$ 2137.944  $\chi^2$ /NDF: 9.4/7

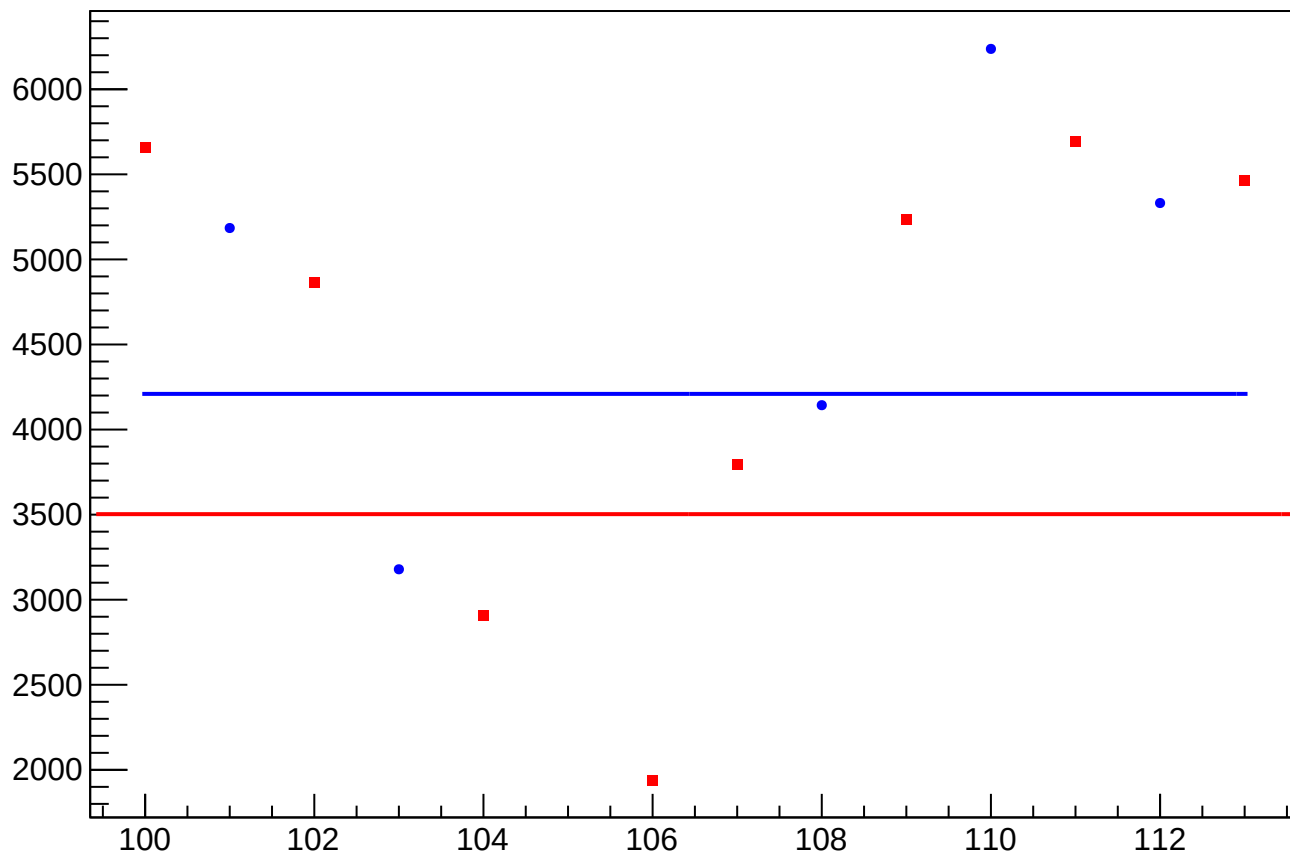
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1225.675 $\pm$ 1683.154  $\chi^2$ /NDF: 13.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_avg\_reg\_correction\_rms vs Slug



Right In: 4209.651+/-1.930  $\chi^2/\text{NDF}$ : 296993.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3502.870+/-1.512  $\chi^2/\text{NDF}$ : 848116.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

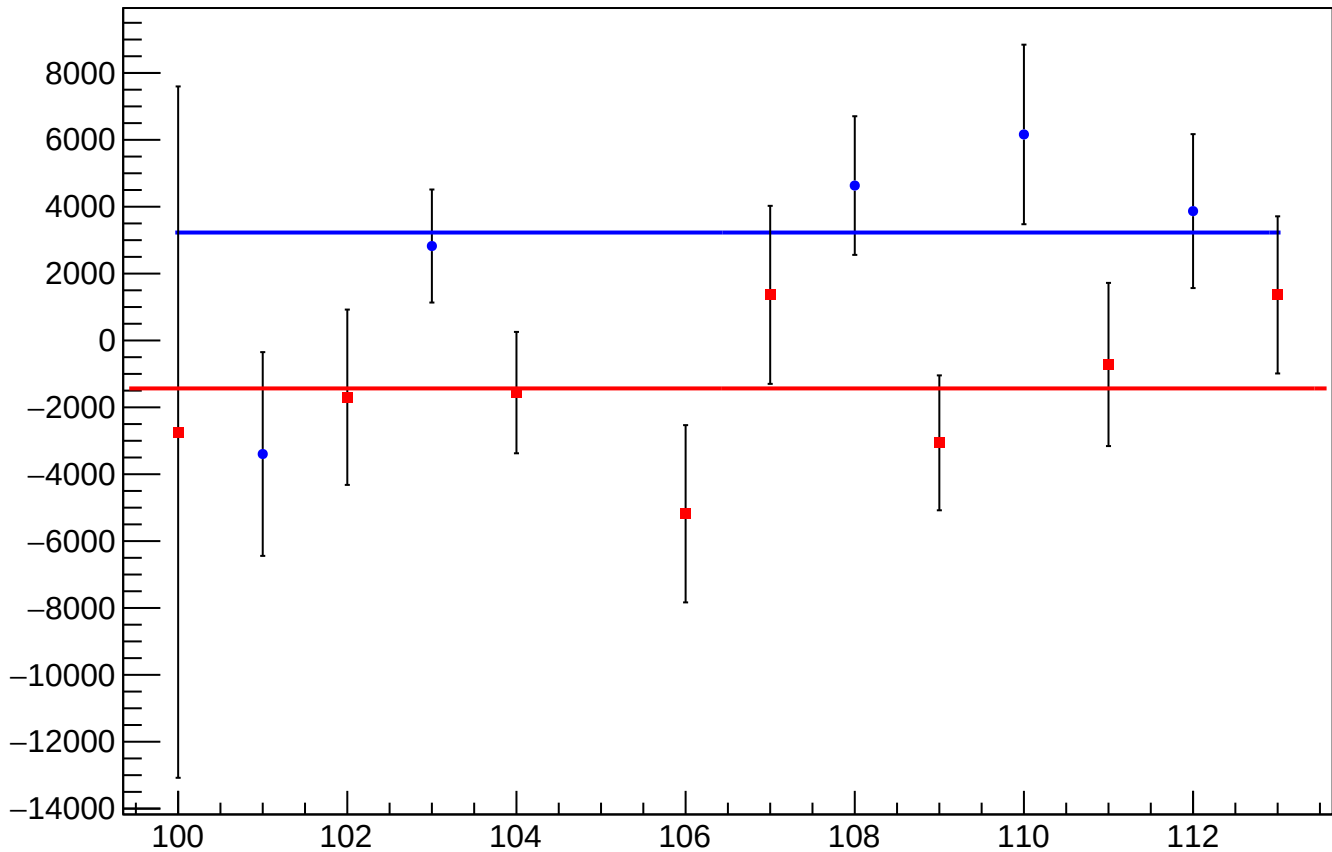
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3771.585+/-1.190  $\chi^2/\text{NDF}$ : 1228212.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_usr\_atr2\_avg\_mean vs Slug



Right In: 3228.041 $\pm$ 991.203  $\chi^2$ /NDF: 6.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1434.178 $\pm$ 864.983  $\chi^2$ /NDF: 5.3/7

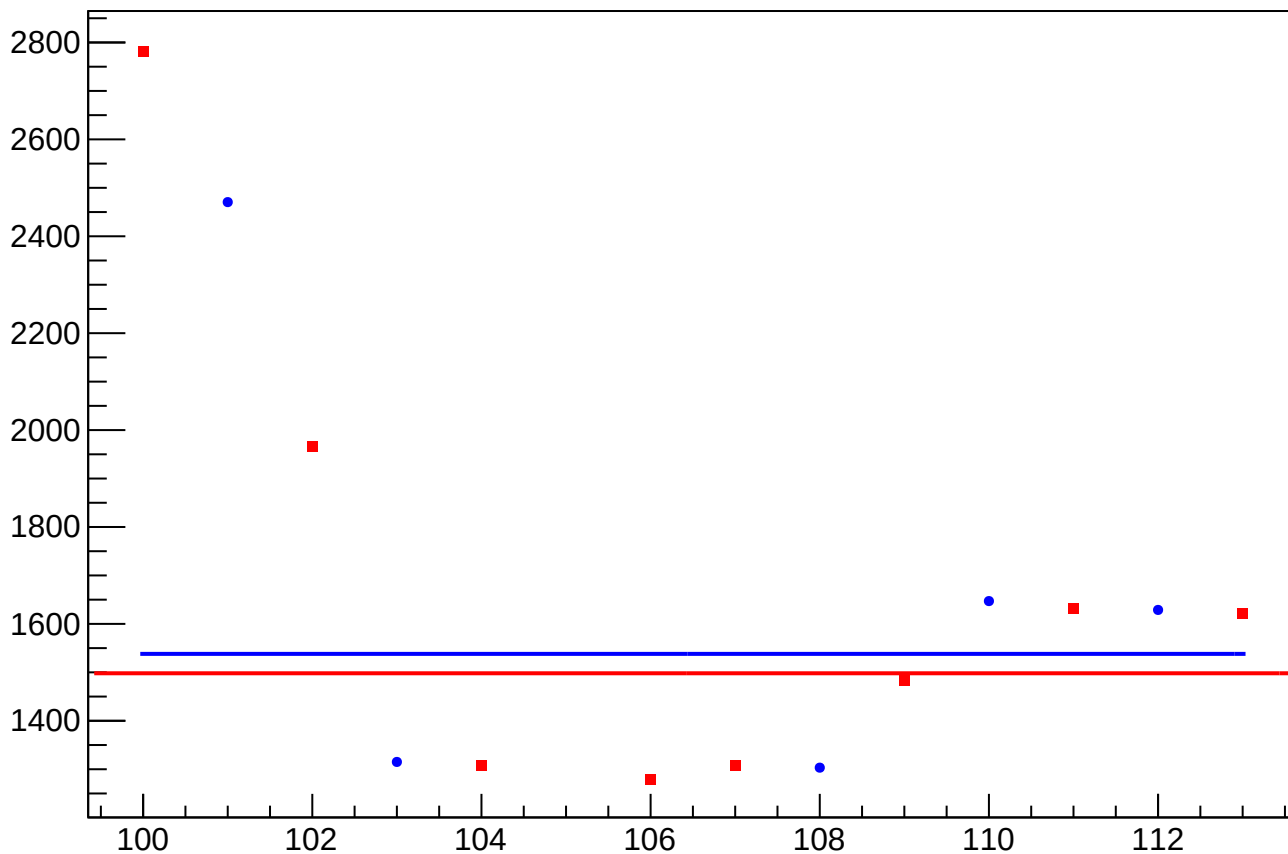
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 581.363 $\pm$ 651.722  $\chi^2$ /NDF: 24.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1538.109 $\pm$ 0.701  $\chi^2$ /NDF: 254185.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1498.076 $\pm$ 0.606  $\chi^2$ /NDF: 154558.0/7

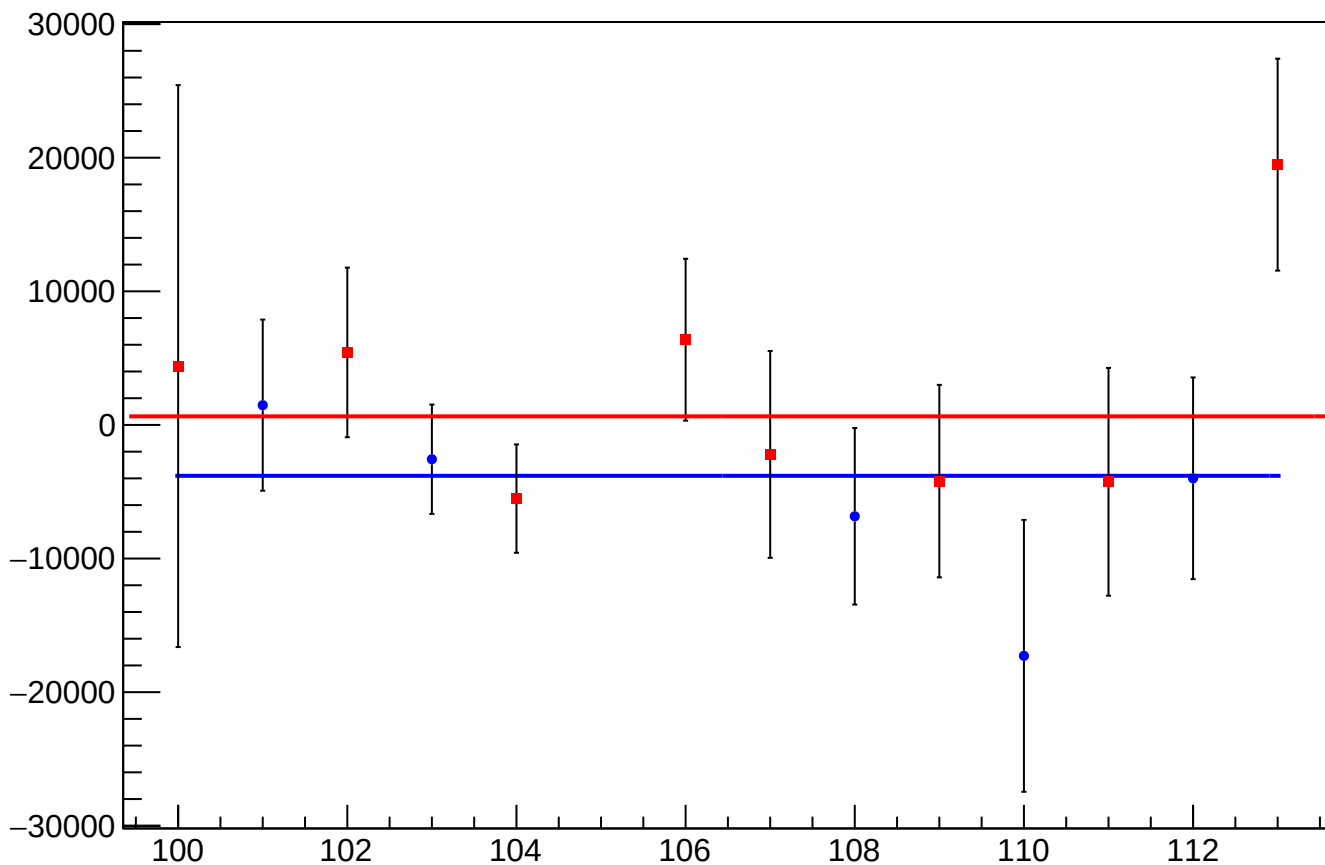
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1515.216 $\pm$ 0.459  $\chi^2$ /NDF: 410608.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_cor\_correction\_mean vs Slug



Right In: -3807.099+/-2729.857  $\chi^2/\text{NDF}$ : 2.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 643.224+/-2351.997  $\chi^2/\text{NDF}$ : 10.4/7

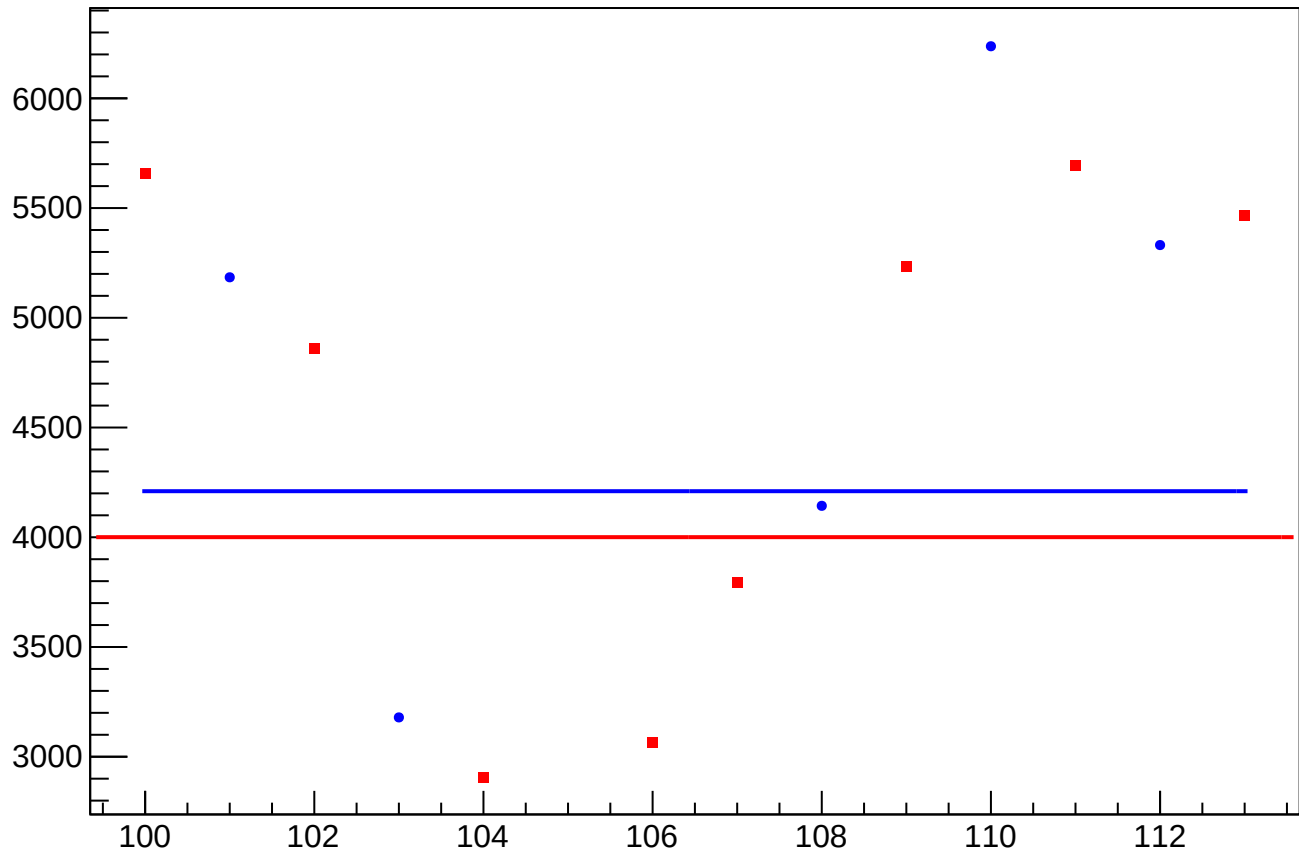
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1252.854+/-1781.855  $\chi^2/\text{NDF}$ : 14.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_avg\_cor\_correction\_rms vs Slug



Right In: 4209.897+/-1.930  $\chi^2/\text{NDF}$ : 296880.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4000.469+/-1.663  $\chi^2/\text{NDF}$ : 449591.2/7

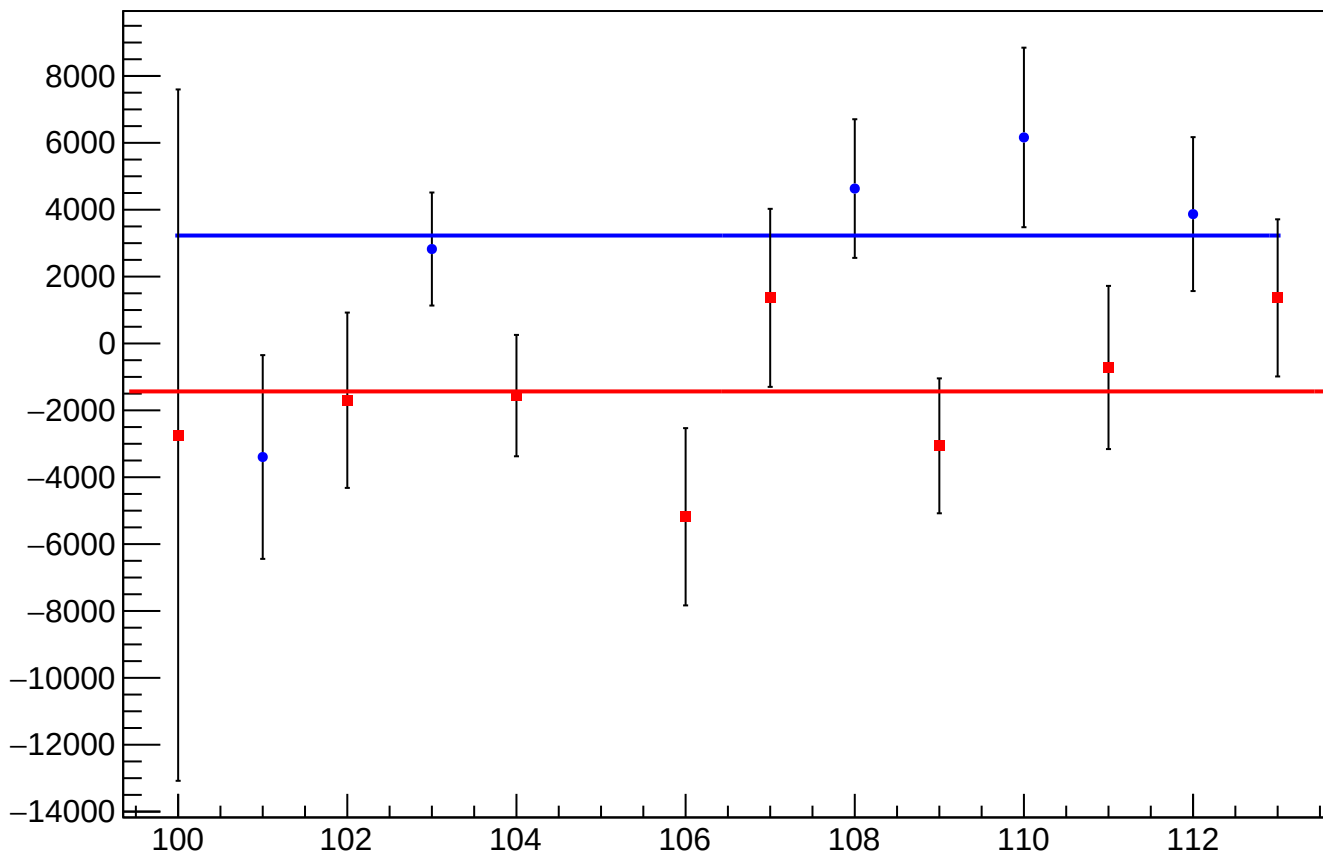
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4089.696+/-1.260  $\chi^2/\text{NDF}$ : 753227.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr2\_avg\_mean vs Slug



Right In: 3228.041+/-991.203  $\chi^2/\text{NDF}$ : 6.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1434.178+/-864.983  $\chi^2/\text{NDF}$ : 5.3/7

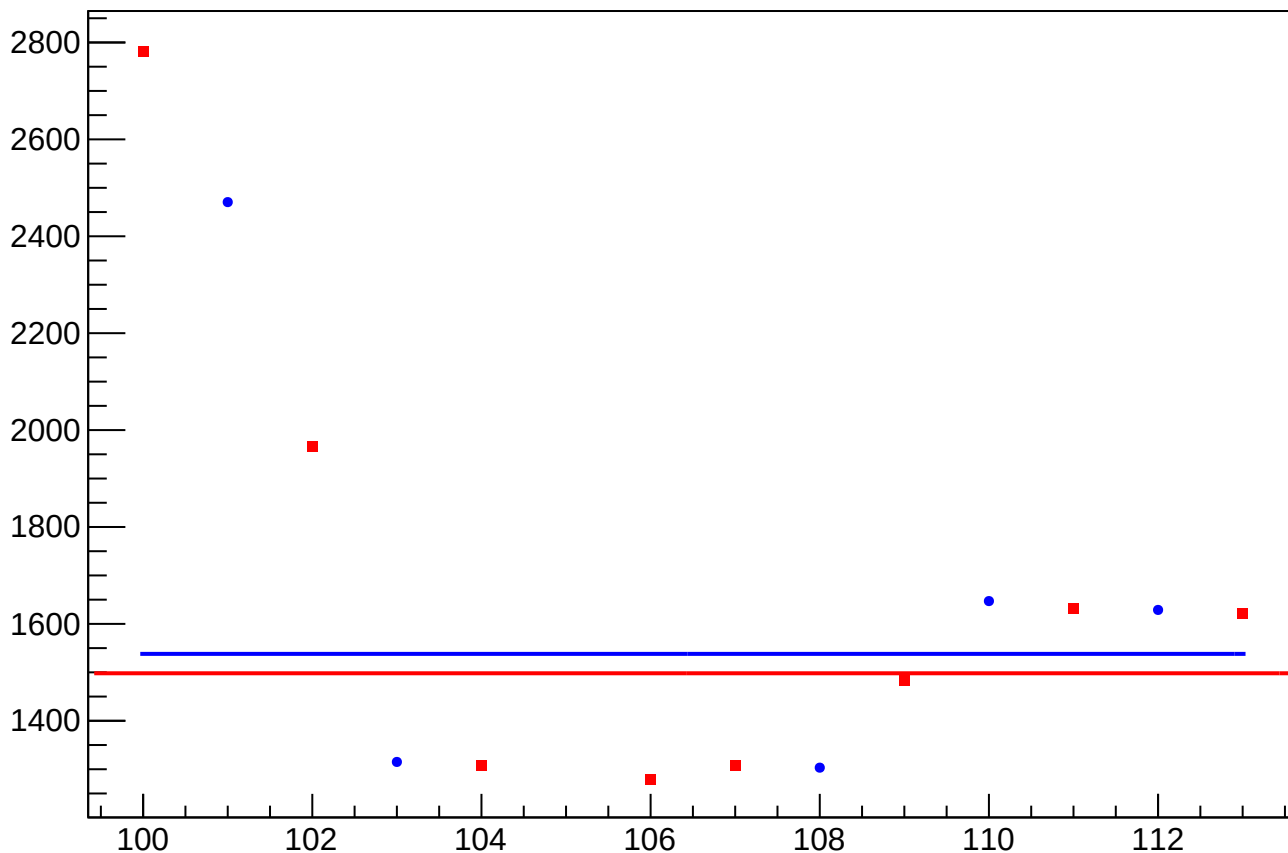
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 581.363+/-651.722  $\chi^2/\text{NDF}$ : 24.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1538.109 $\pm$ 0.701  $\chi^2$ /NDF: 254185.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1498.076 $\pm$ 0.606  $\chi^2$ /NDF: 154558.0/7

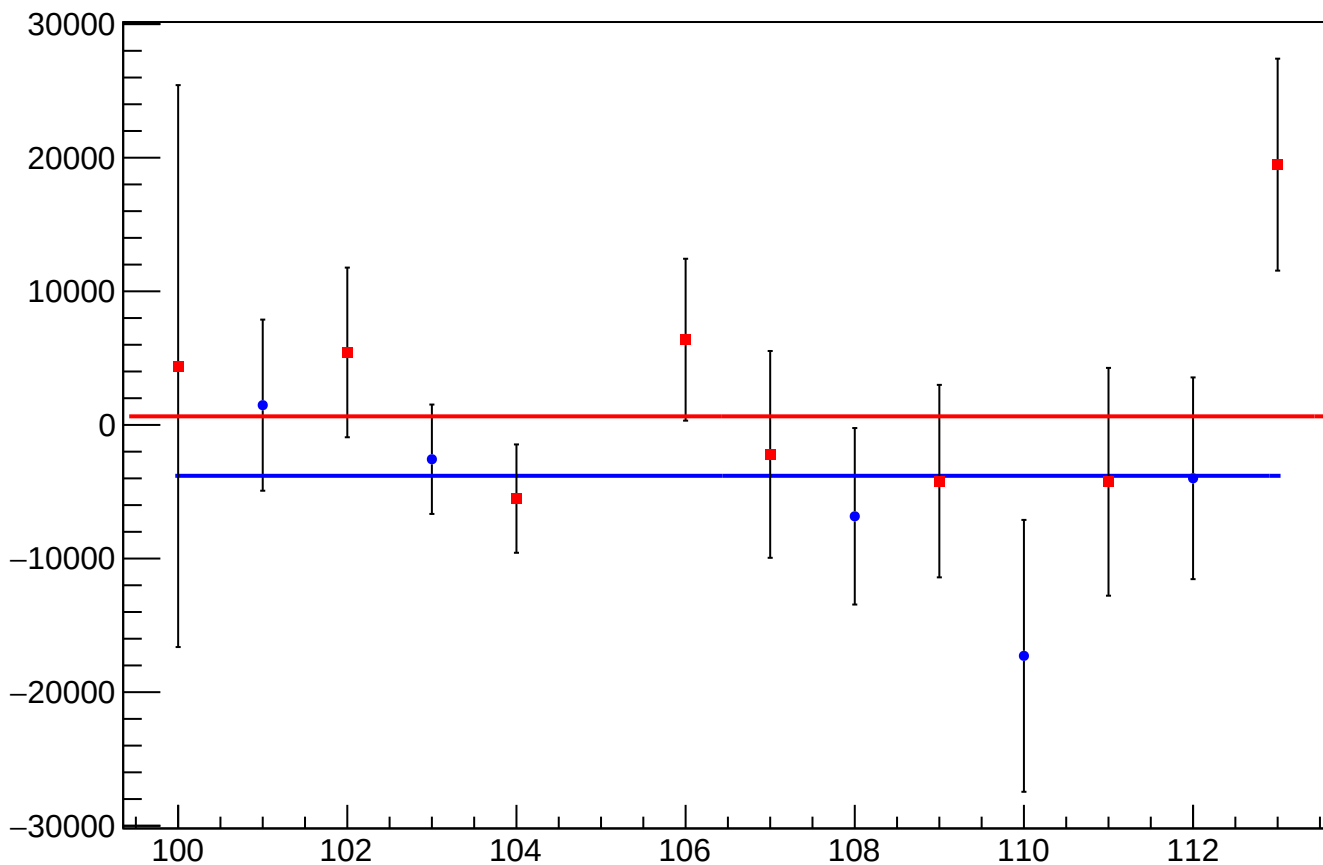
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1515.216 $\pm$ 0.459  $\chi^2$ /NDF: 410608.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -3807.099+/-2729.857  $\chi^2/\text{NDF}$ : 2.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 643.224+/-2351.997  $\chi^2/\text{NDF}$ : 10.4/7

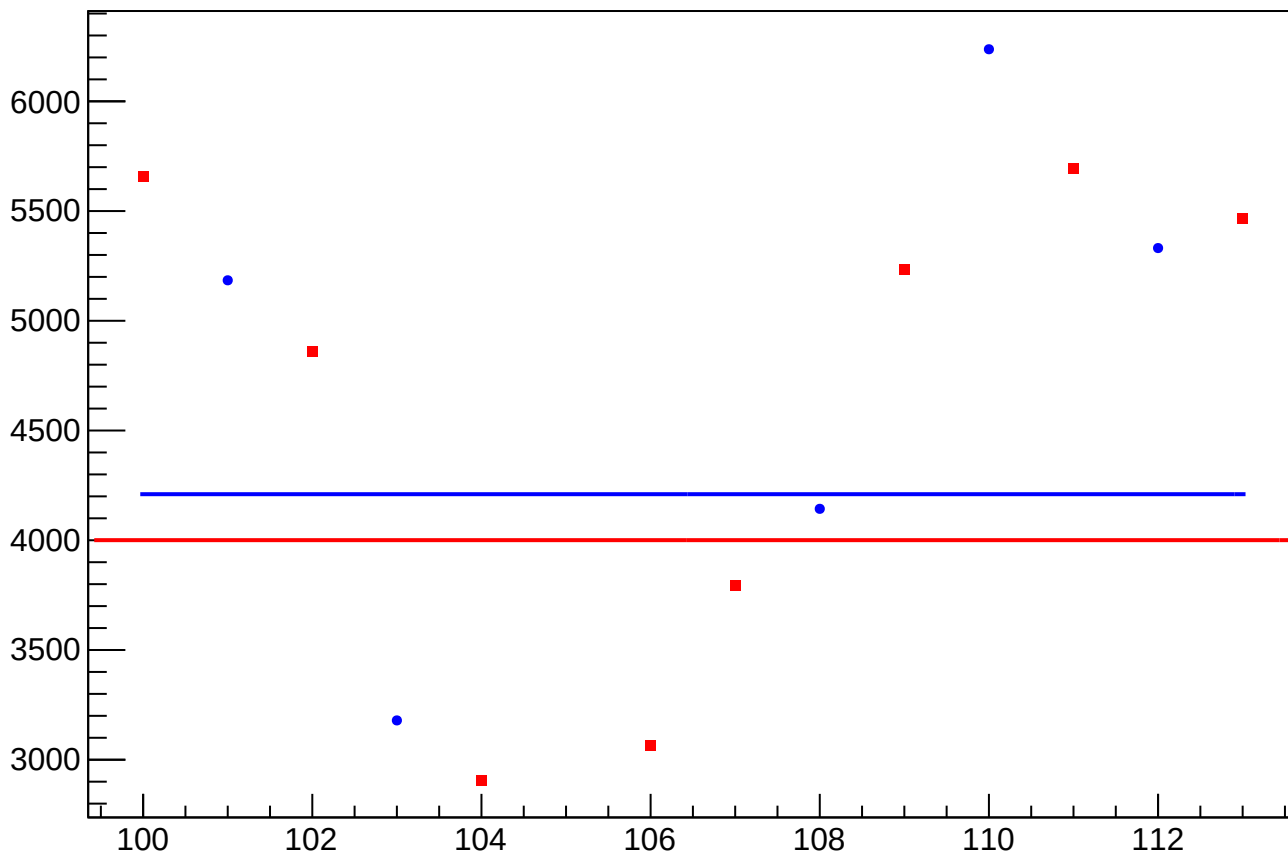
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1252.854+/-1781.855  $\chi^2/\text{NDF}$ : 14.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 4209.897 $\pm$ 1.930  $\chi^2$ /NDF: 296880.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4000.469 $\pm$ 1.663  $\chi^2$ /NDF: 449591.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

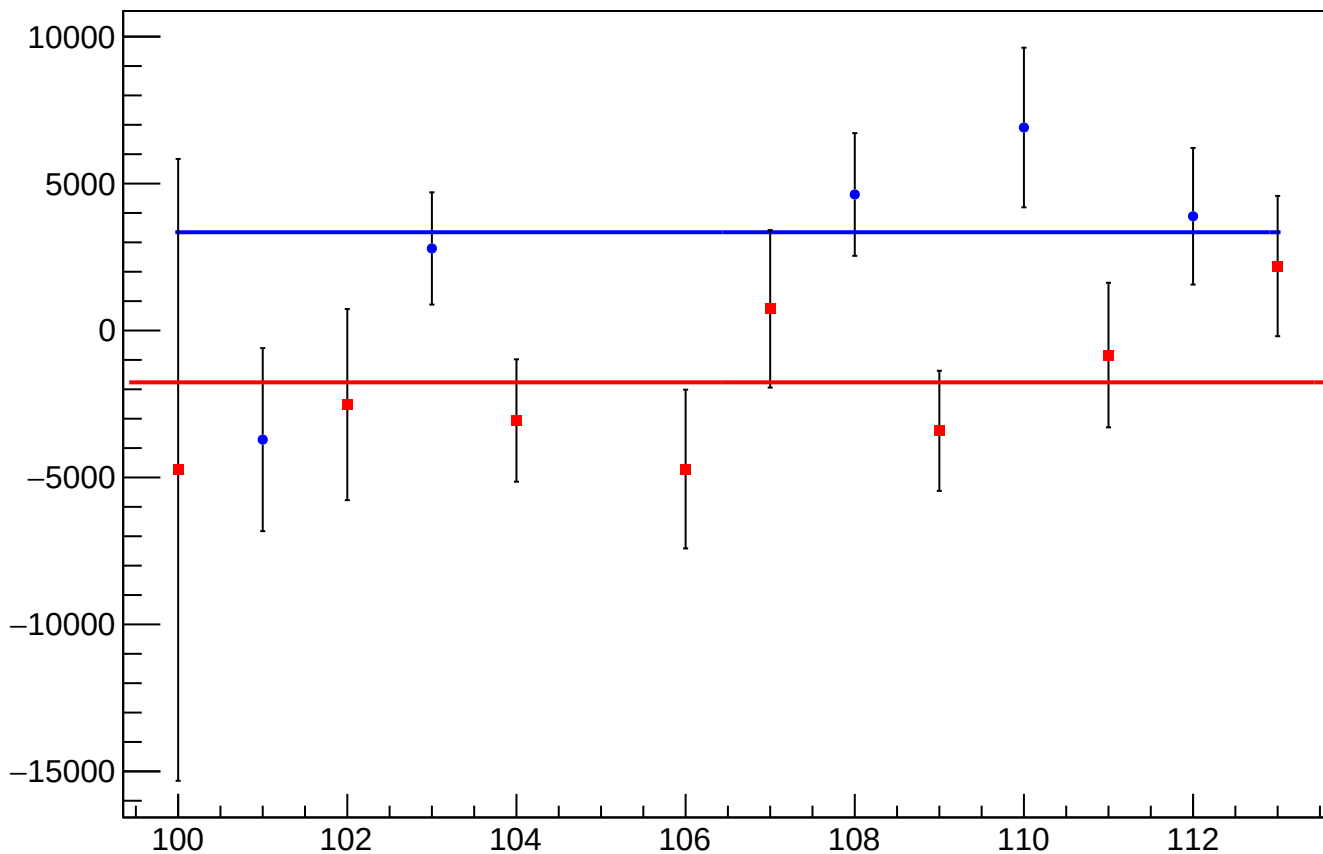
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4089.696 $\pm$ 1.260  $\chi^2$ /NDF: 753227.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_asym\_usr\_atr2\_avg\_mean vs Slug



Right In: 3343.873+/-1038.594  $\chi^2/\text{NDF}$ : 7.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1763.494+/-916.396  $\chi^2/\text{NDF}$ : 6.1/7

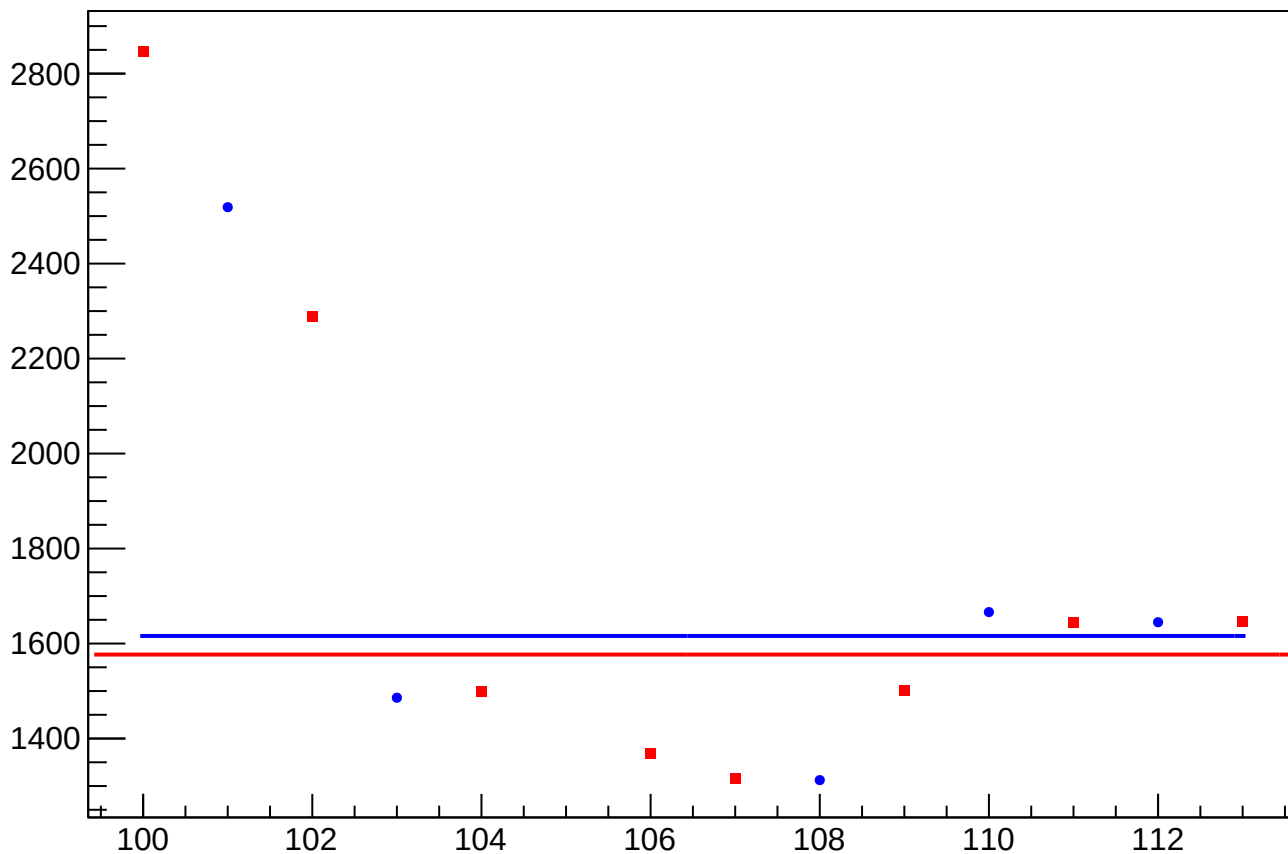
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 472.192+/-687.152  $\chi^2/\text{NDF}$ : 27.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1615.974 $\pm$ 0.734  $\chi^2$ /NDF: 220565.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1576.805 $\pm$ 0.647  $\chi^2$ /NDF: 164519.0/7

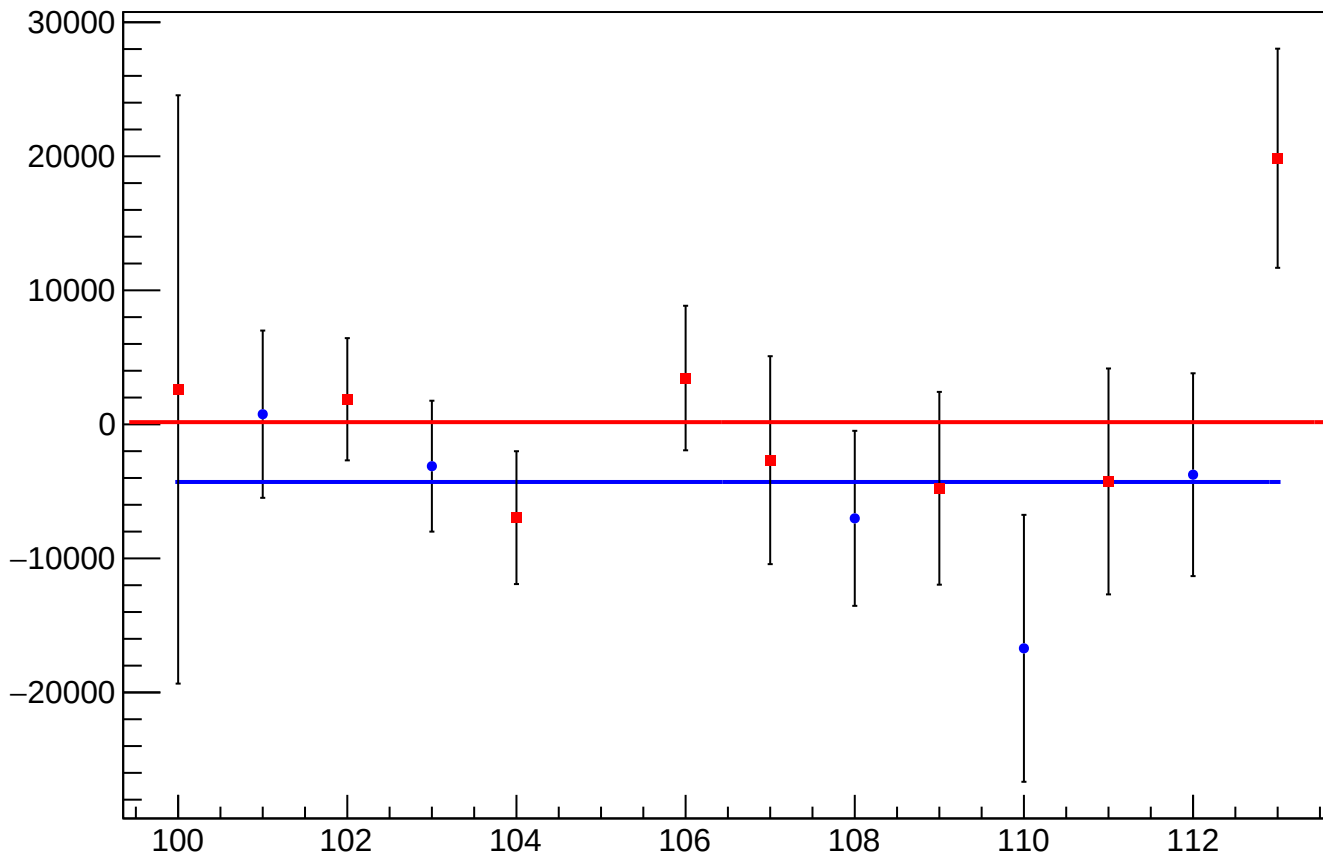
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1593.912 $\pm$ 0.485  $\chi^2$ /NDF: 386686.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_avg\_dit\_correction\_mean vs Slug



Right In: -4298.102+/-2903.214  $\chi^2/\text{NDF}$ : 2.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 166.103+/-2292.387  $\chi^2/\text{NDF}$ : 9.3/7

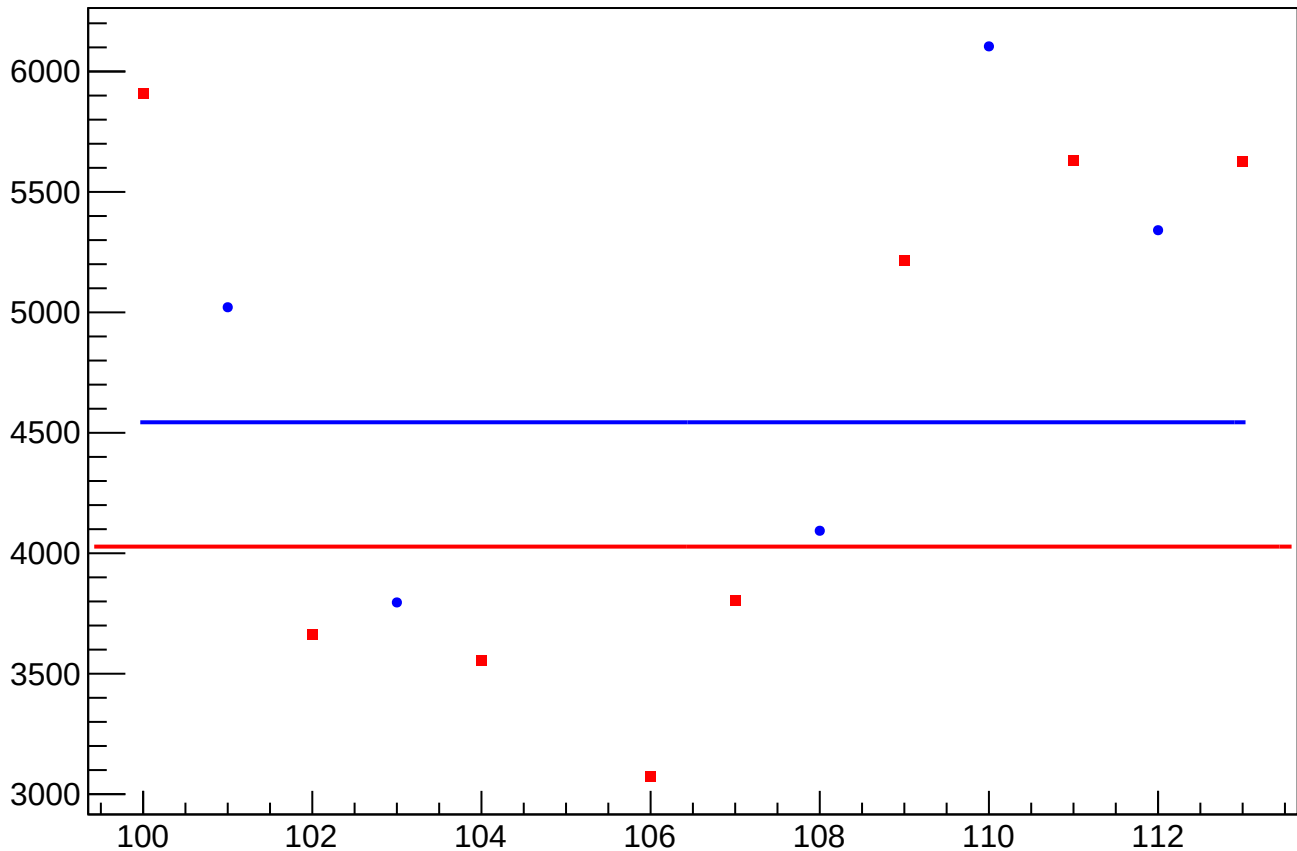
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1548.316+/-1799.142  $\chi^2/\text{NDF}$ : 13.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_avg\_dit\_correction\_rms vs Slug



Right In: 4543.762+/-2.053  $\chi^2/\text{NDF}$ : 139474.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4027.648+/-1.621  $\chi^2/\text{NDF}$ : 313414.2/7

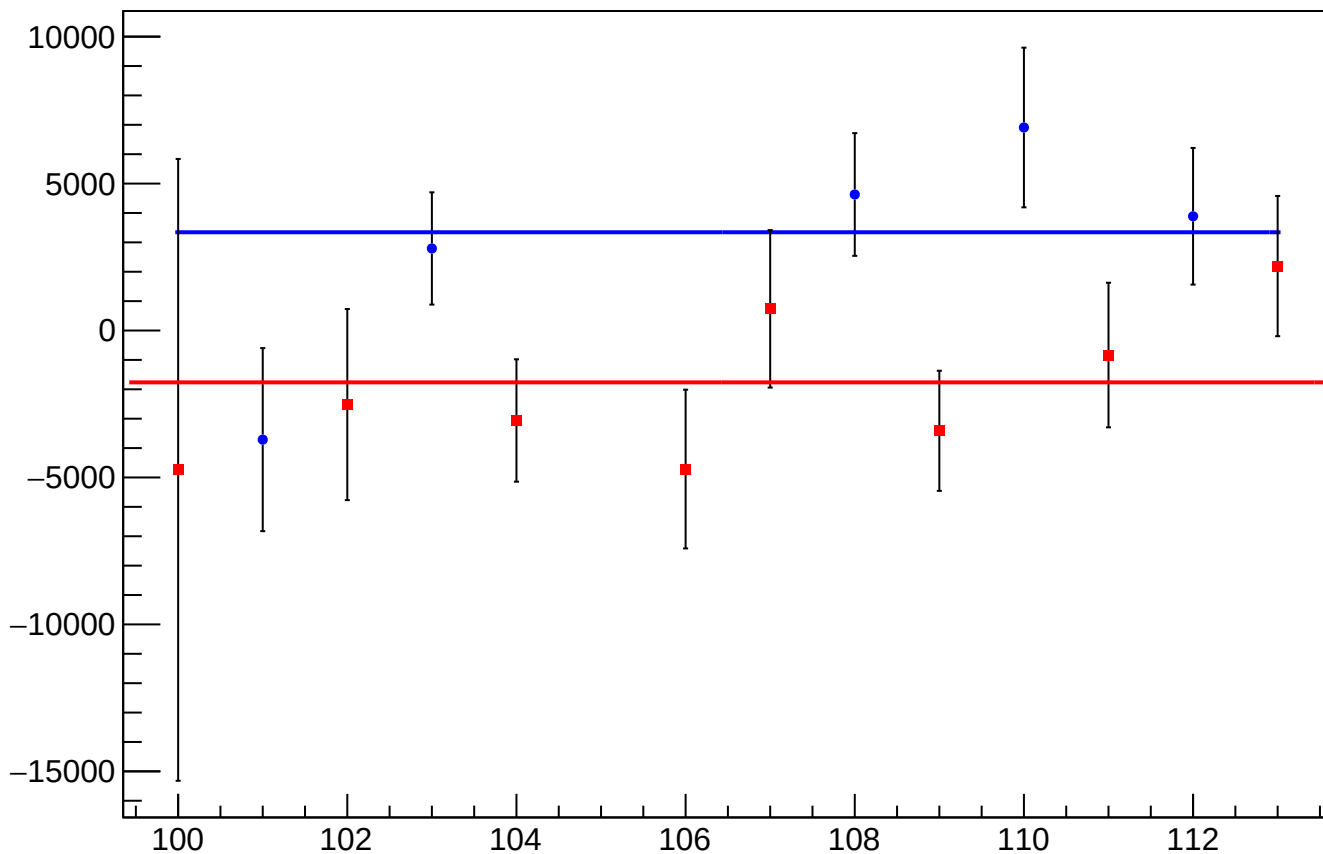
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4225.855+/-1.272  $\chi^2/\text{NDF}$ : 491821.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usr\_atr2\_avg\_mean vs Slug



Right In: 3343.875+/-1038.593  $\chi^2/\text{NDF}$ : 7.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1763.496+/-916.395  $\chi^2/\text{NDF}$ : 6.1/7

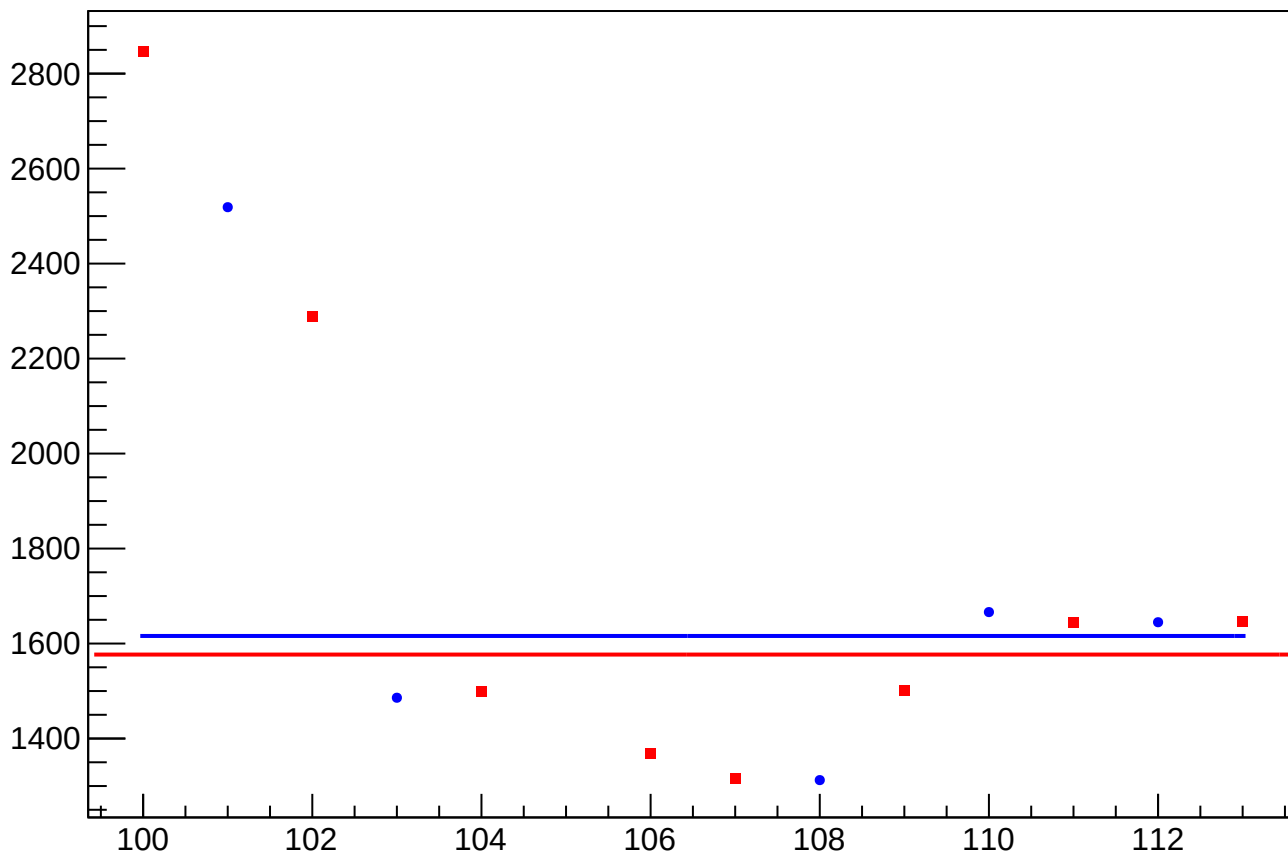
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 472.192+/-687.151  $\chi^2/\text{NDF}$ : 27.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1615.973+/-0.734  $\chi^2/\text{NDF}$ : 220565.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

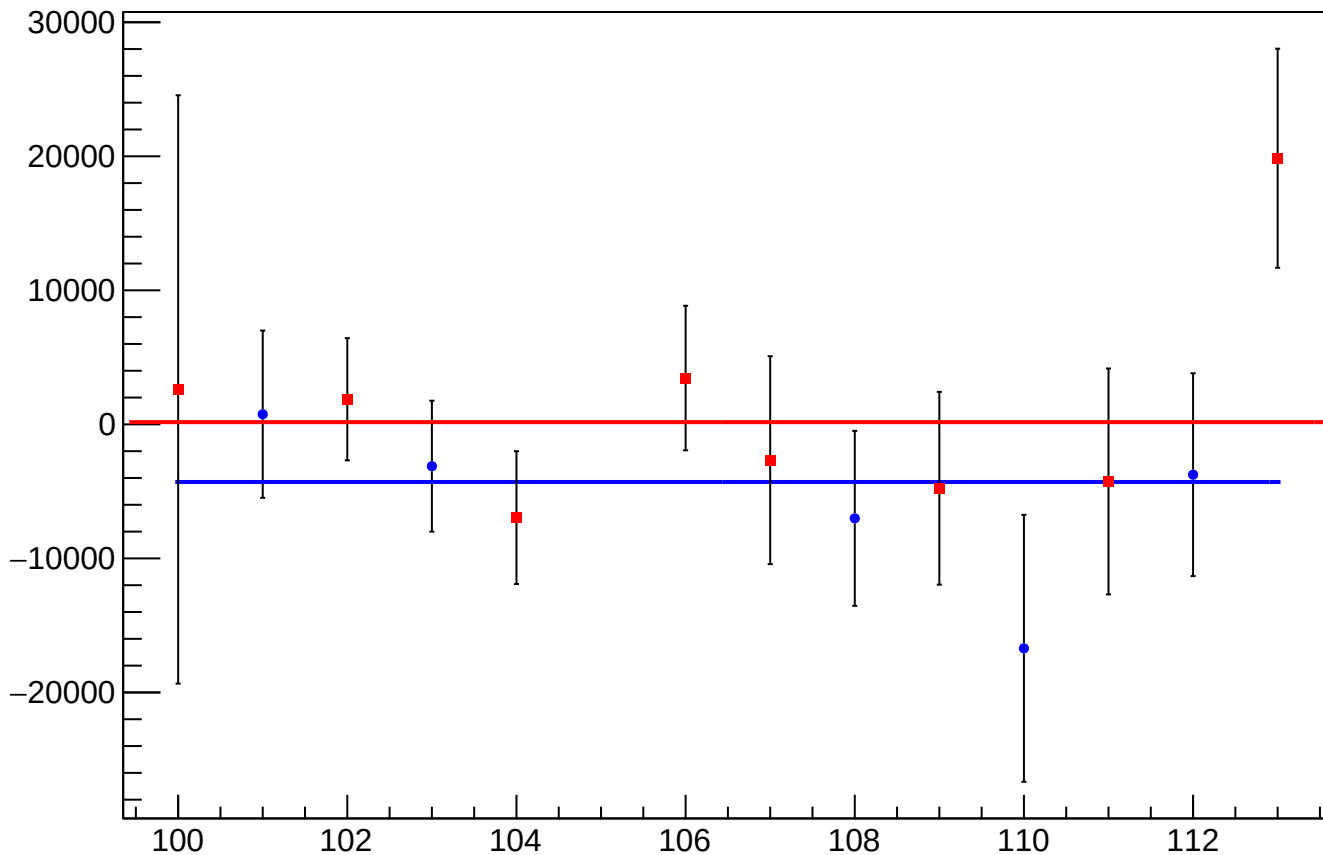
Right Out: 1576.805+/-0.647  $\chi^2/\text{NDF}$ : 164518.7/7

All: 1593.912+/-0.485  $\chi^2/\text{NDF}$ : 386686.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -4298.105 $\pm$ 2903.211  $\chi^2$ /NDF: 2.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 166.105 $\pm$ 2292.384  $\chi^2$ /NDF: 9.3/7

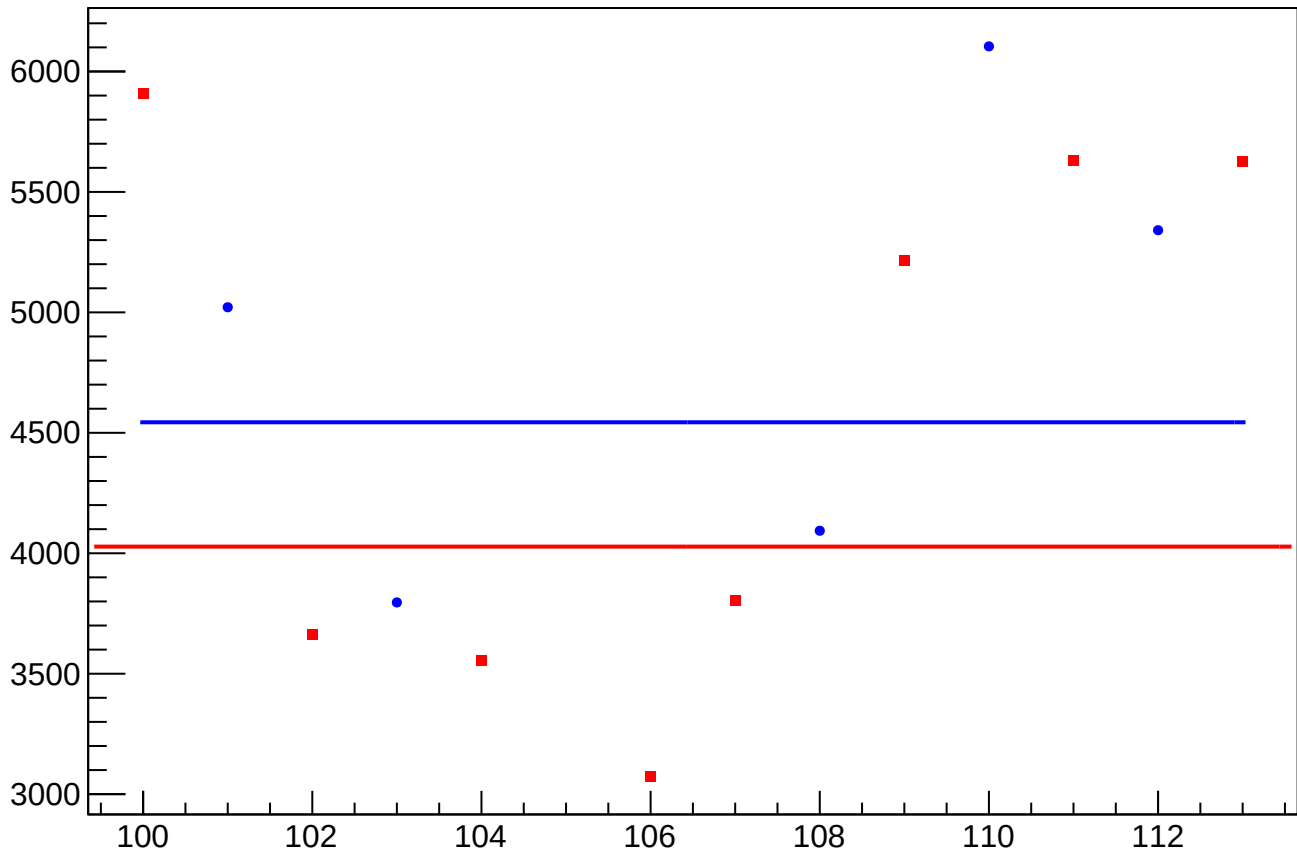
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1548.315 $\pm$ 1799.140  $\chi^2$ /NDF: 13.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 4543.759+/-2.053  $\chi^2/\text{NDF}$ : 139472.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4027.643+/-1.621  $\chi^2/\text{NDF}$ : 313413.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

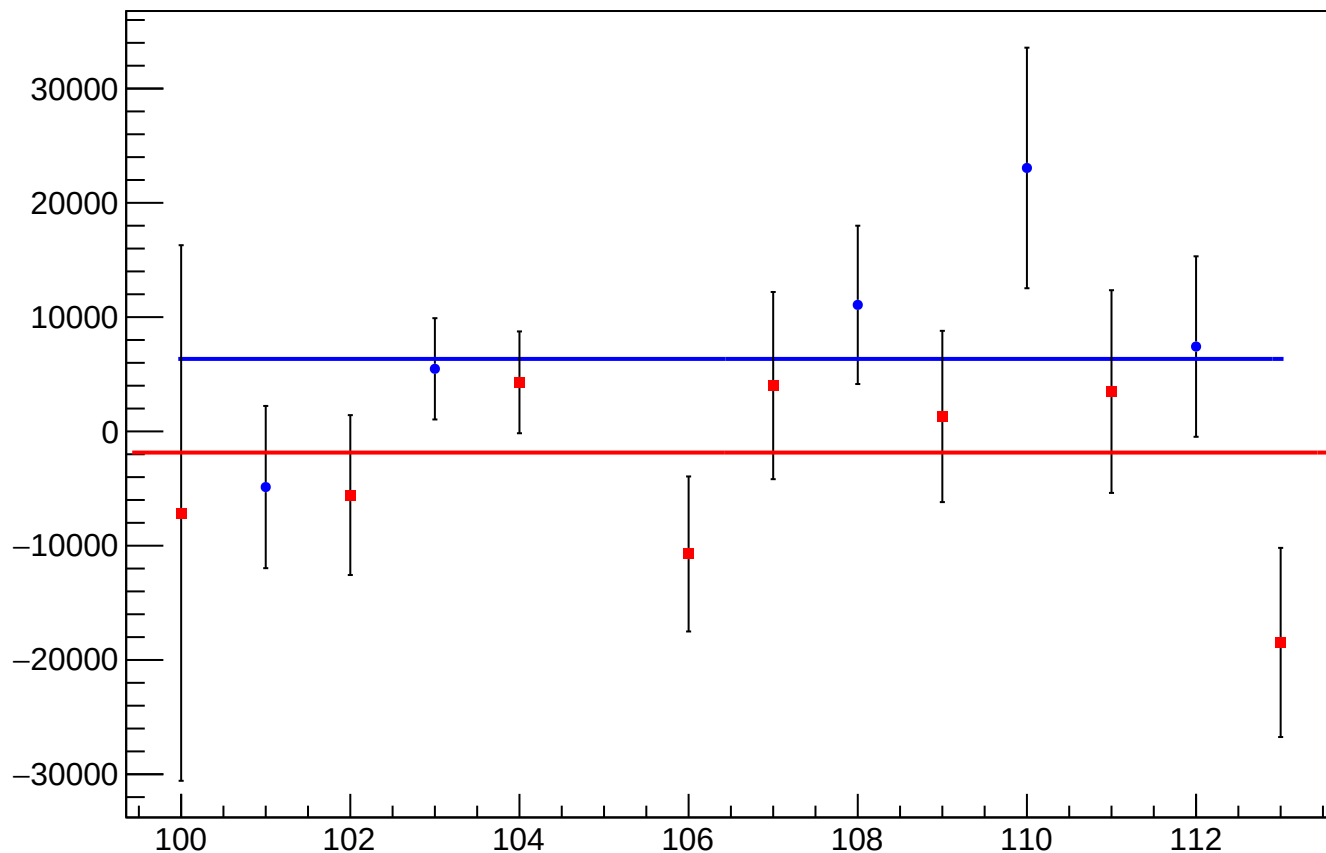
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4225.850+/-1.272  $\chi^2/\text{NDF}$ : 491819.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_usr\_atr2\_avg\_mean vs Slug



Right In: 6343.813 $\pm$ 2927.697  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1850.722 $\pm$ 2544.805  $\chi^2$ /NDF: 9.0/7

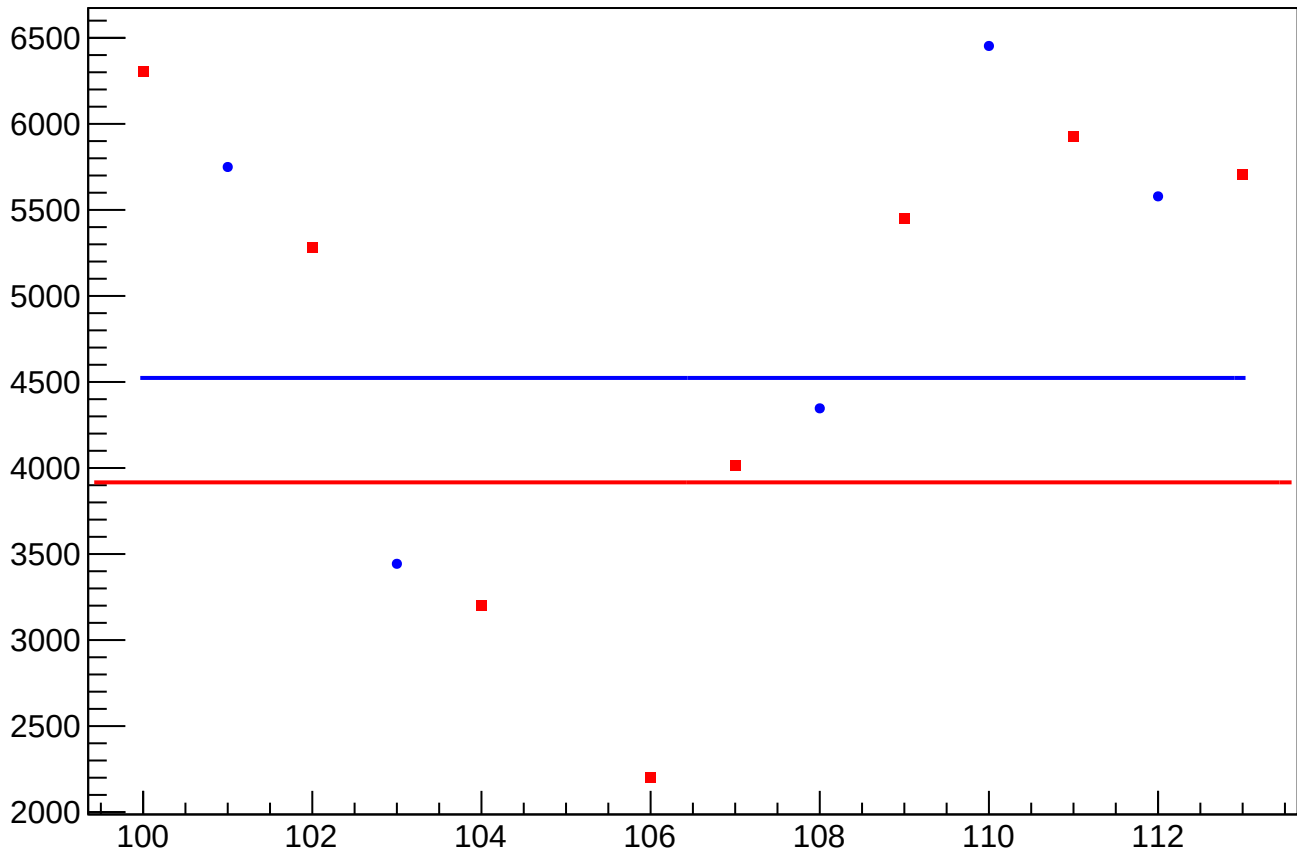
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1675.997 $\pm$ 1920.655  $\chi^2$ /NDF: 19.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 4523.455+/-2.070  $\chi^2/\text{NDF}$ : 282724.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3916.533+/-1.679  $\chi^2/\text{NDF}$ : 691482.5/7

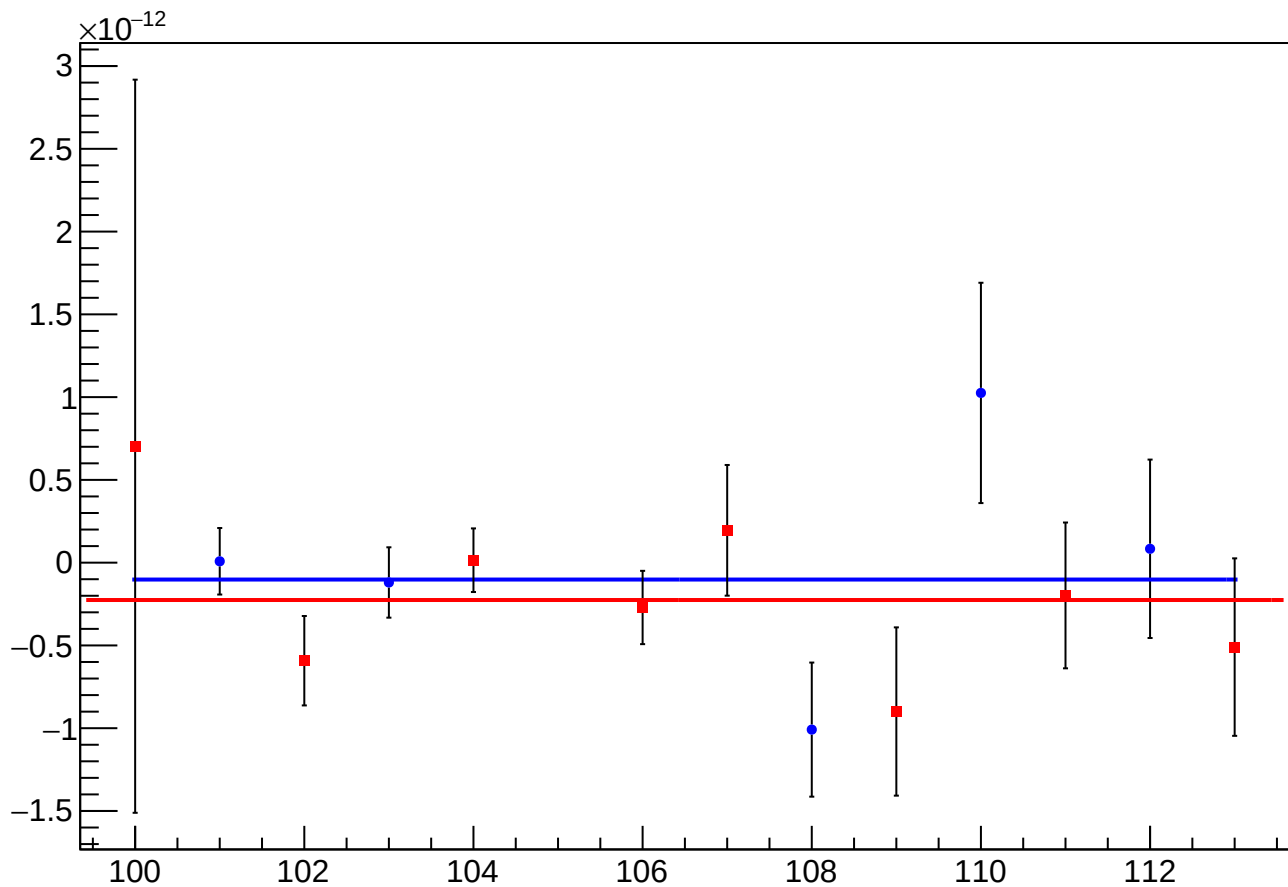
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4157.372+/-1.304  $\chi^2/\text{NDF}$ : 1026050.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.8/7

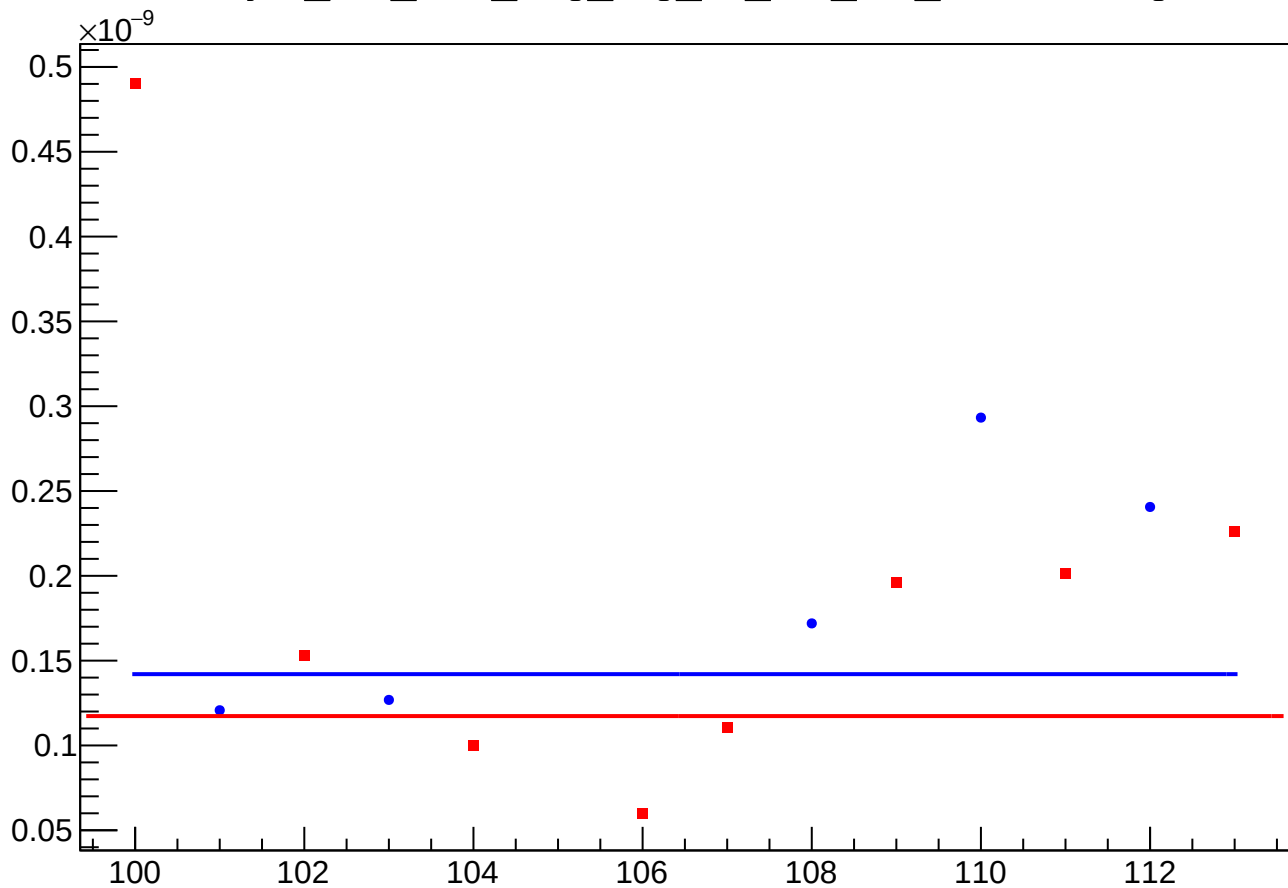
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 213772.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 447408.7/7

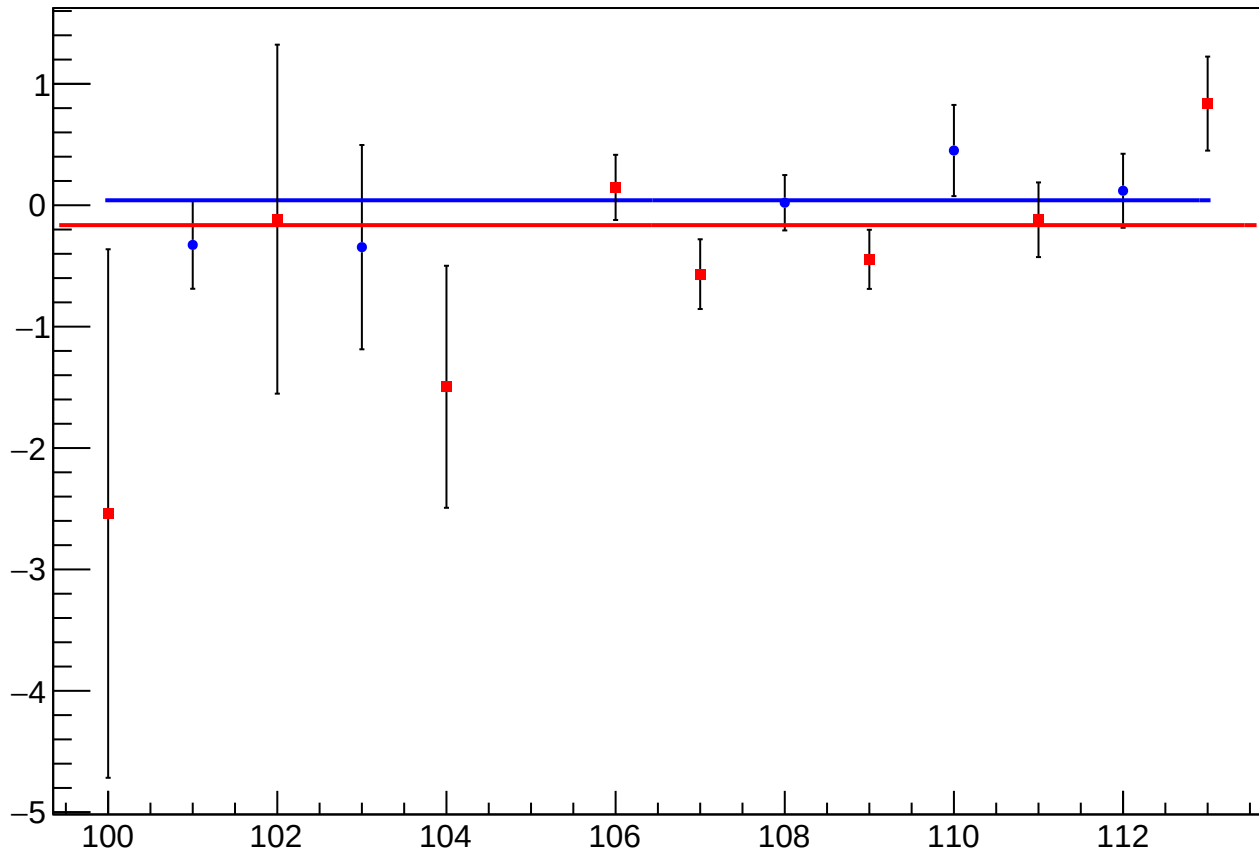
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 702630.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.041 $\pm$ 0.147  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.164 $\pm$ 0.127  $\chi^2$ /NDF: 14.3/7

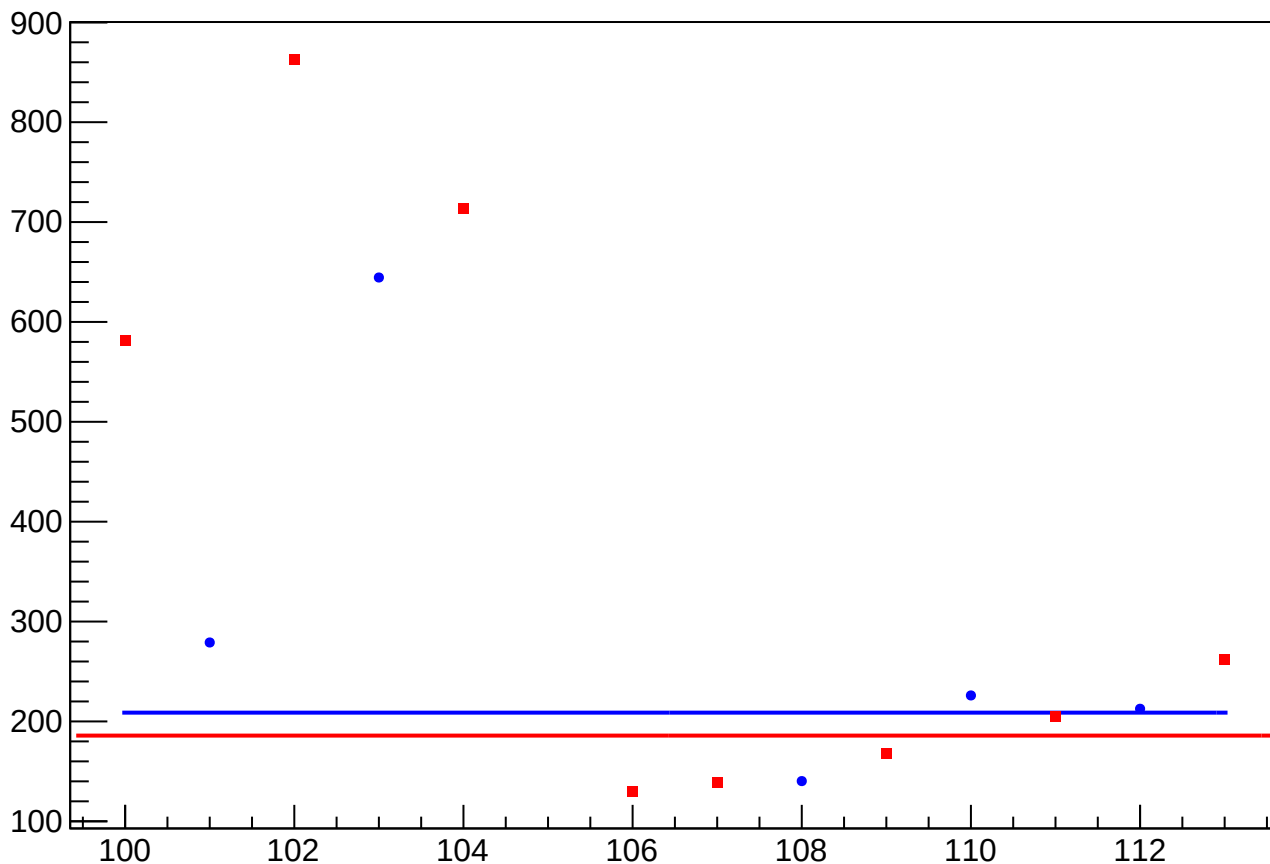
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.076 $\pm$ 0.096  $\chi^2$ /NDF: 18.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 208.796 $\pm$ 0.104  $\chi^2$ /NDF: 796798.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 185.816 $\pm$ 0.090  $\chi^2$ /NDF: 1304674.3/7

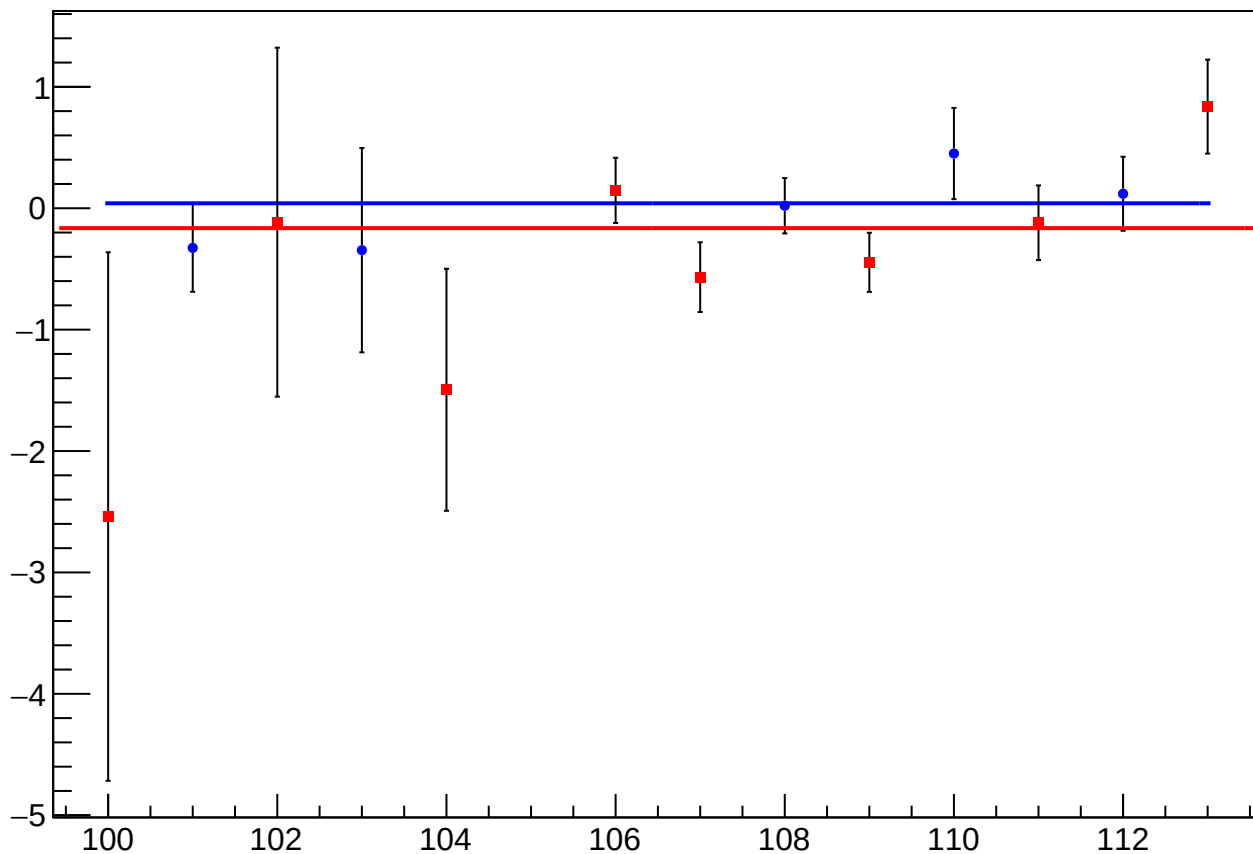
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 195.641 $\pm$ 0.068  $\chi^2$ /NDF: 2129376.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.041 $\pm$ 0.147  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.164 $\pm$ 0.127  $\chi^2$ /NDF: 14.3/7

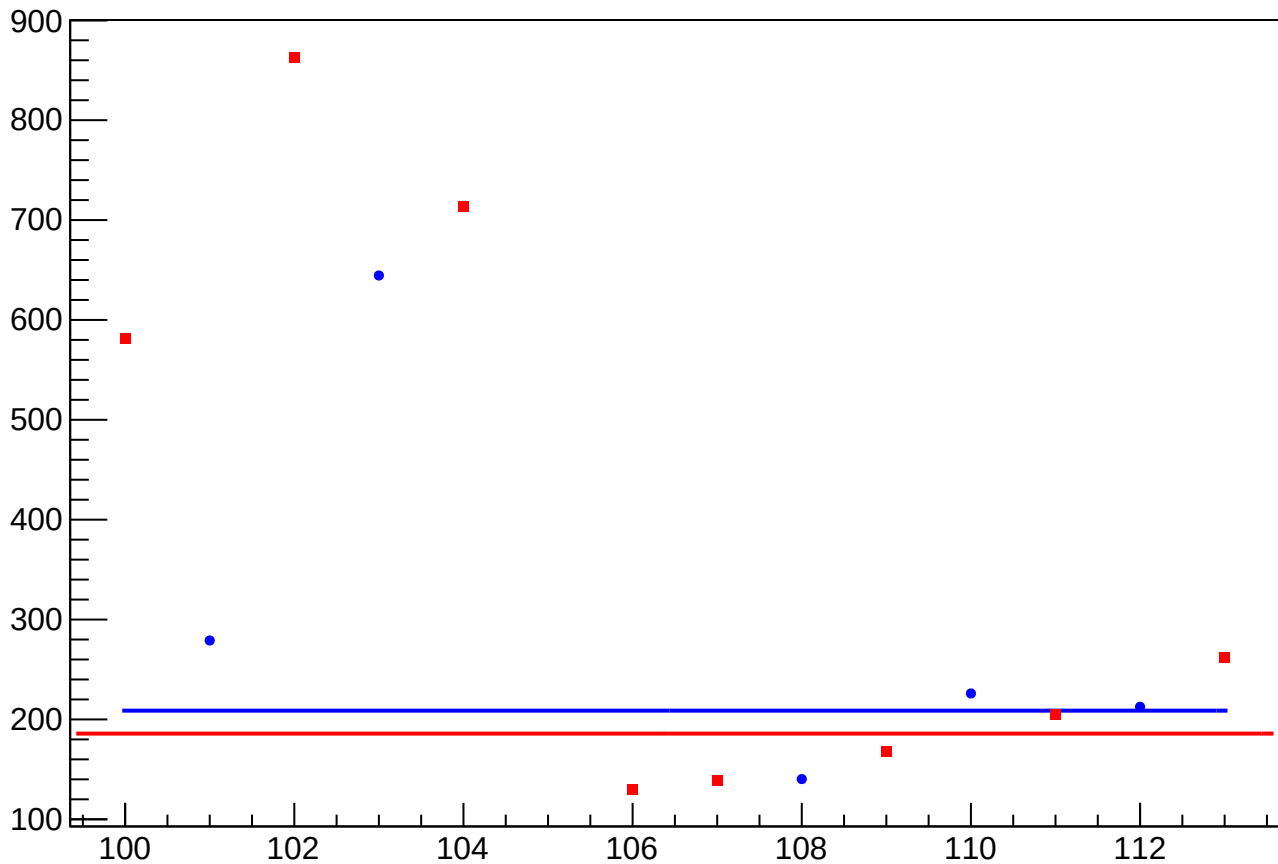
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.076 $\pm$ 0.096  $\chi^2$ /NDF: 18.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 208.796 $\pm$ 0.104  $\chi^2$ /NDF: 796798.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 185.816 $\pm$ 0.090  $\chi^2$ /NDF: 1304674.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

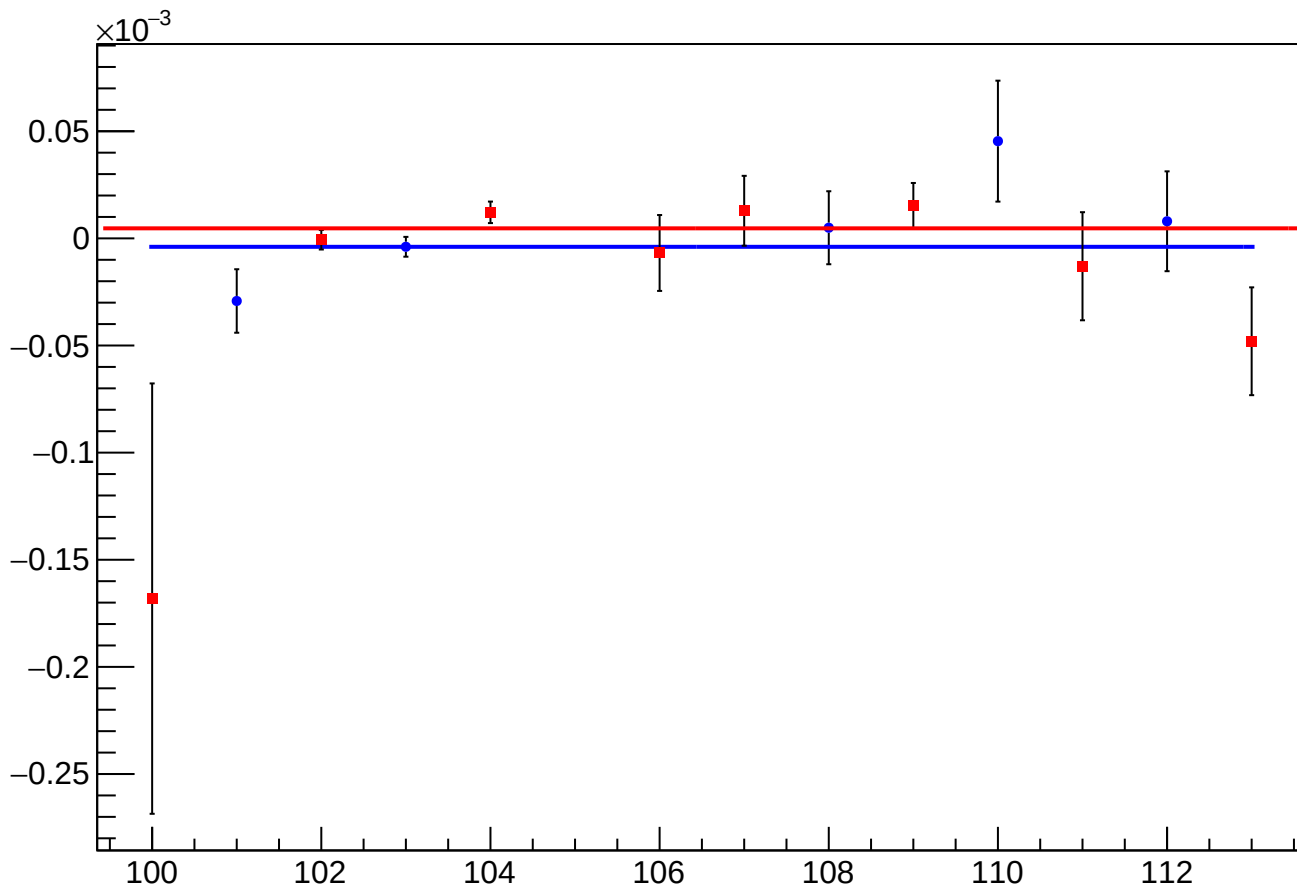
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 195.641 $\pm$ 0.068  $\chi^2$ /NDF: 2129376.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.1/7

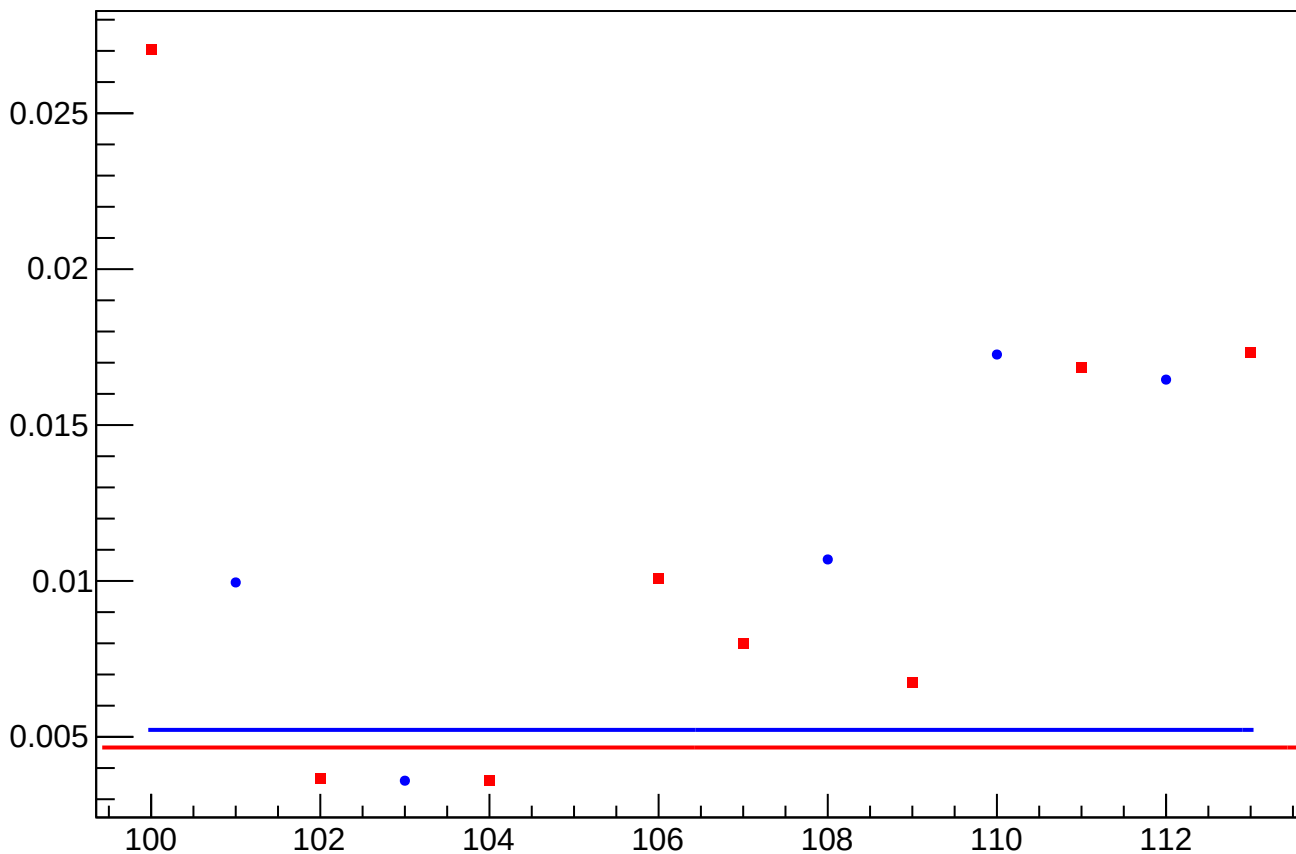
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 22.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1486636.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1603045.7/7

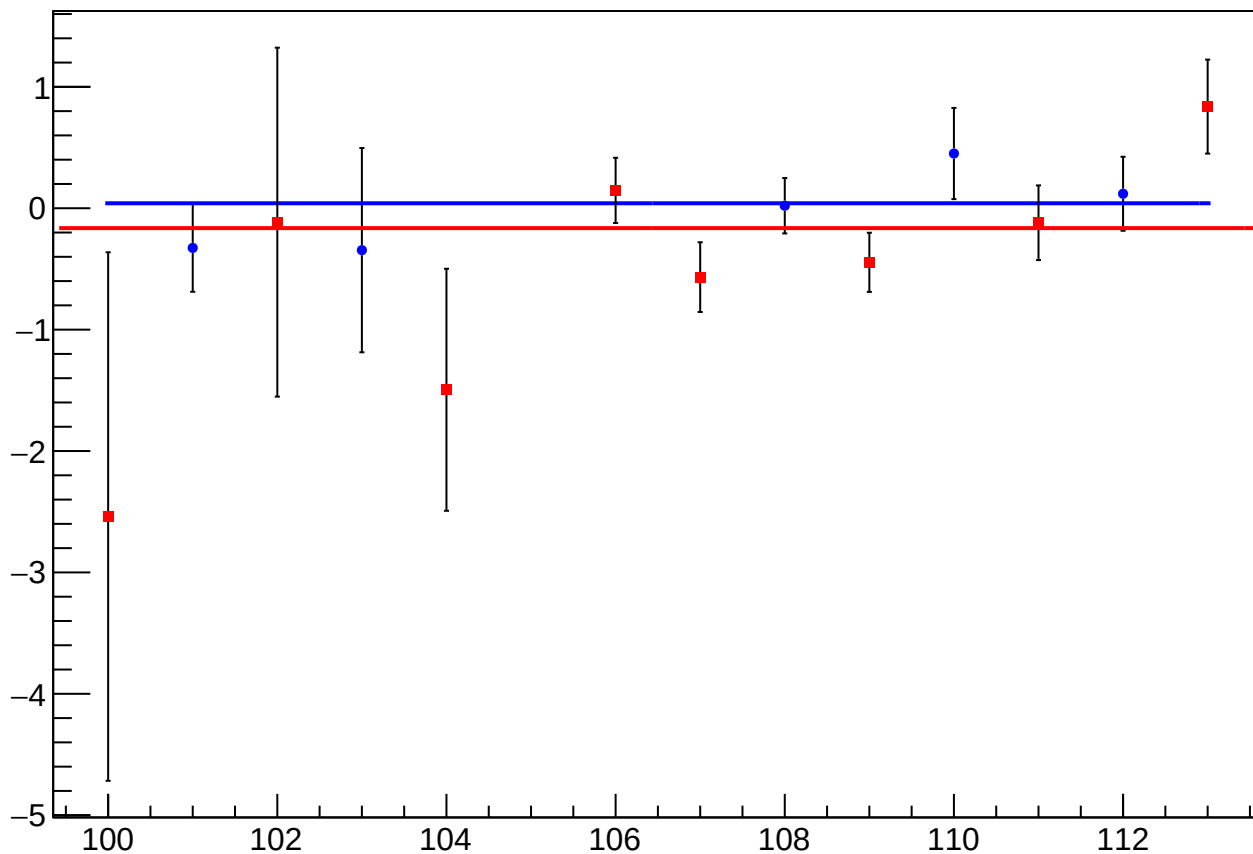
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 3113684.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.041 $\pm$ 0.147  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.164 $\pm$ 0.127  $\chi^2$ /NDF: 14.3/7

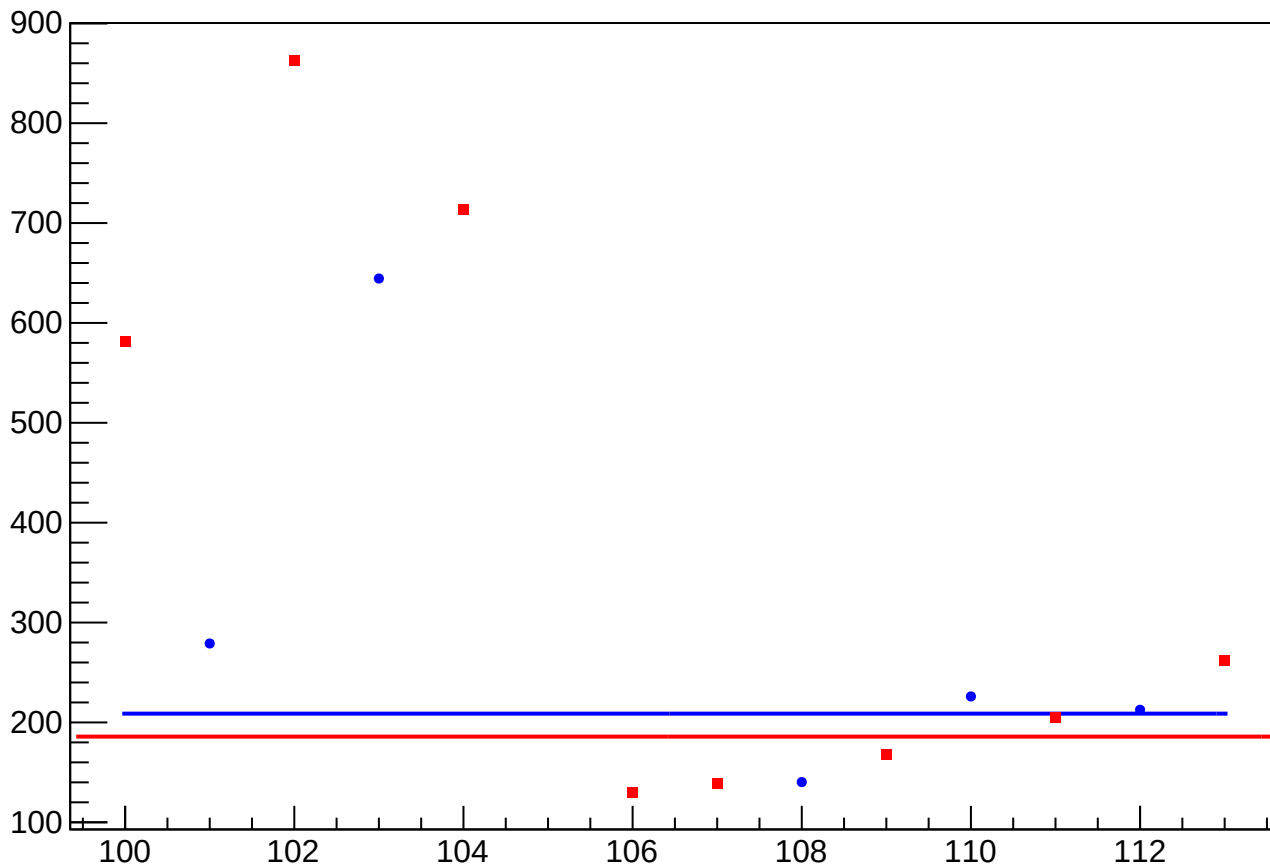
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.076 $\pm$ 0.096  $\chi^2$ /NDF: 18.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 208.797 $\pm$ 0.104  $\chi^2$ /NDF: 796809.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 185.816 $\pm$ 0.090  $\chi^2$ /NDF: 1304671.4/7

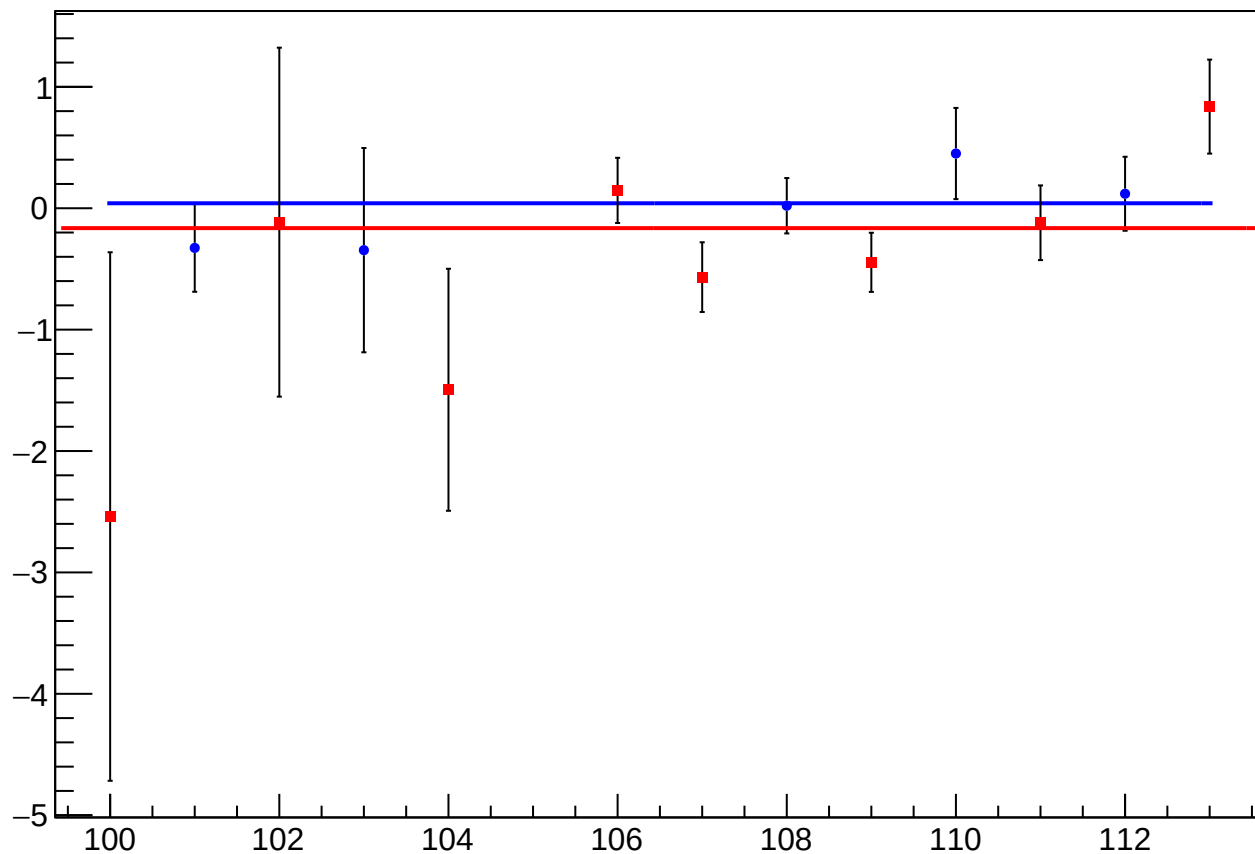
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 195.641 $\pm$ 0.068  $\chi^2$ /NDF: 2129384.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.041 $\pm$ 0.147  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.164 $\pm$ 0.127  $\chi^2$ /NDF: 14.3/7

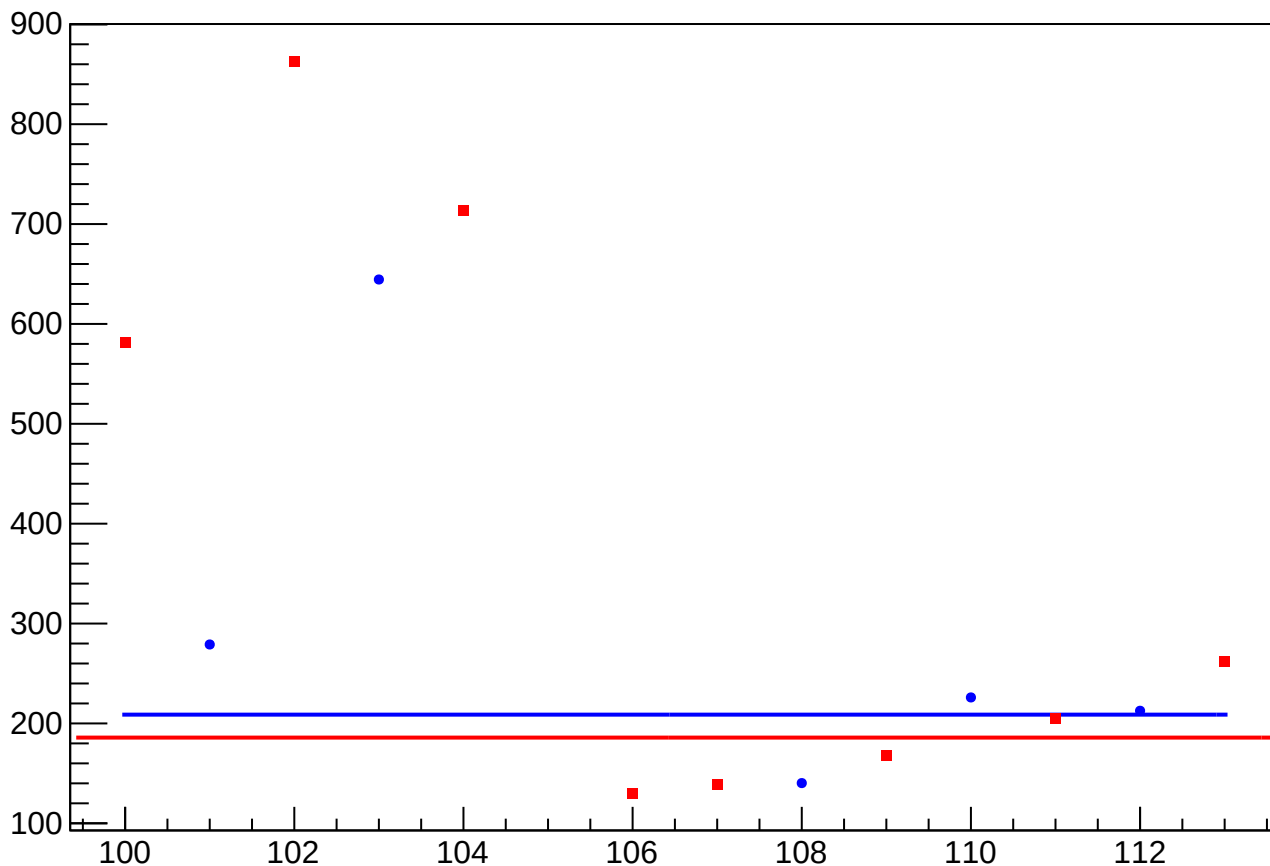
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.076 $\pm$ 0.096  $\chi^2$ /NDF: 18.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 208.797 $\pm$ 0.104  $\chi^2$ /NDF: 796809.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 185.816 $\pm$ 0.090  $\chi^2$ /NDF: 1304671.4/7

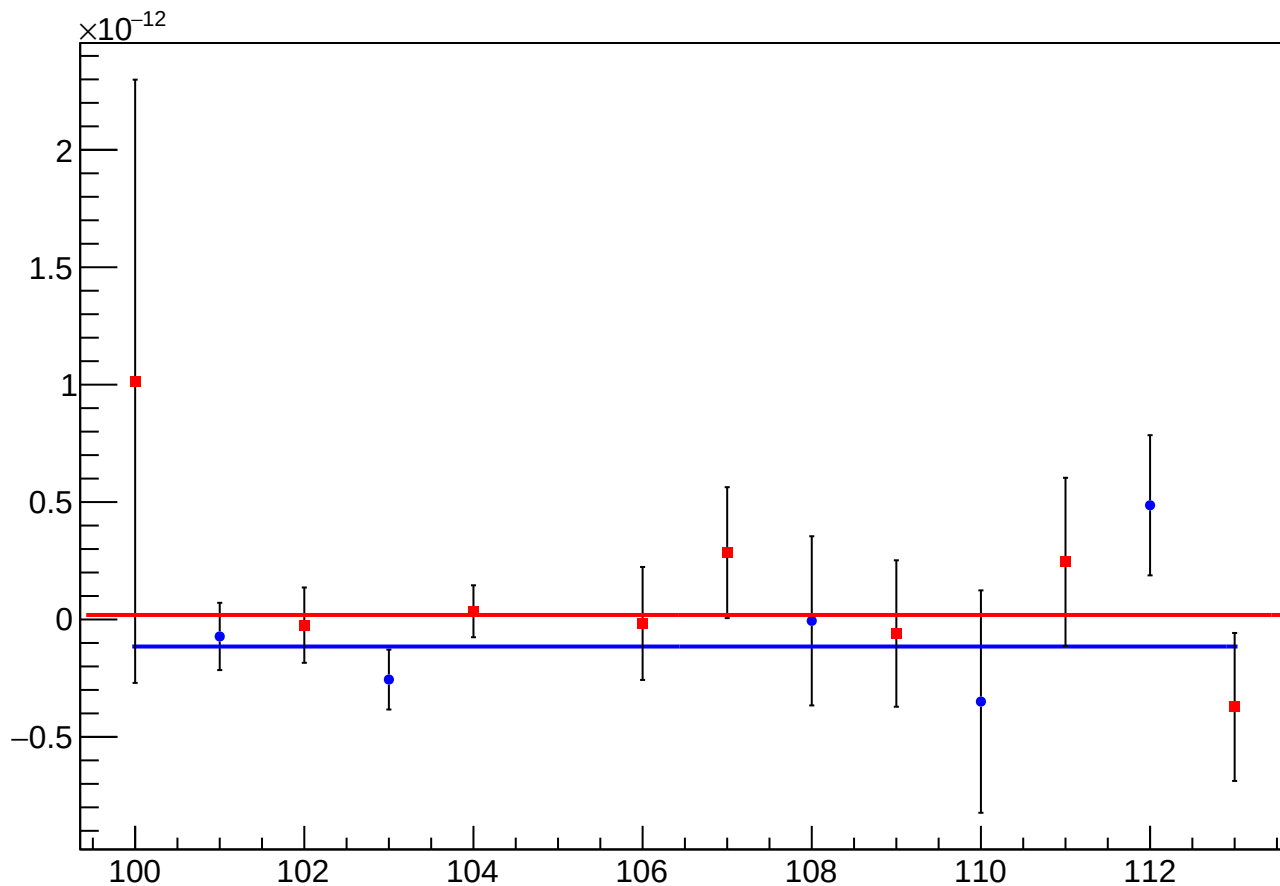
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 195.641 $\pm$ 0.068  $\chi^2$ /NDF: 2129384.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.6/7

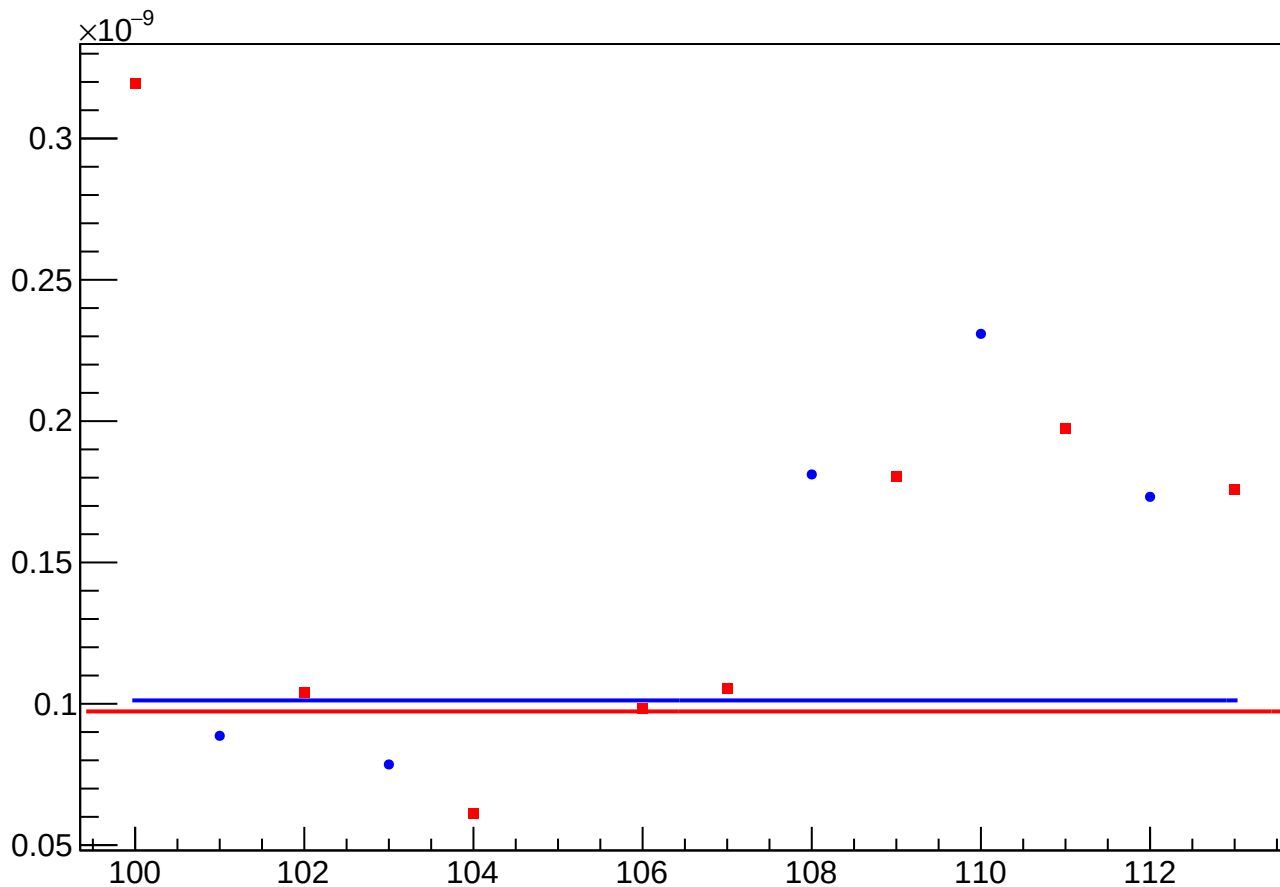
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 443404.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 702223.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

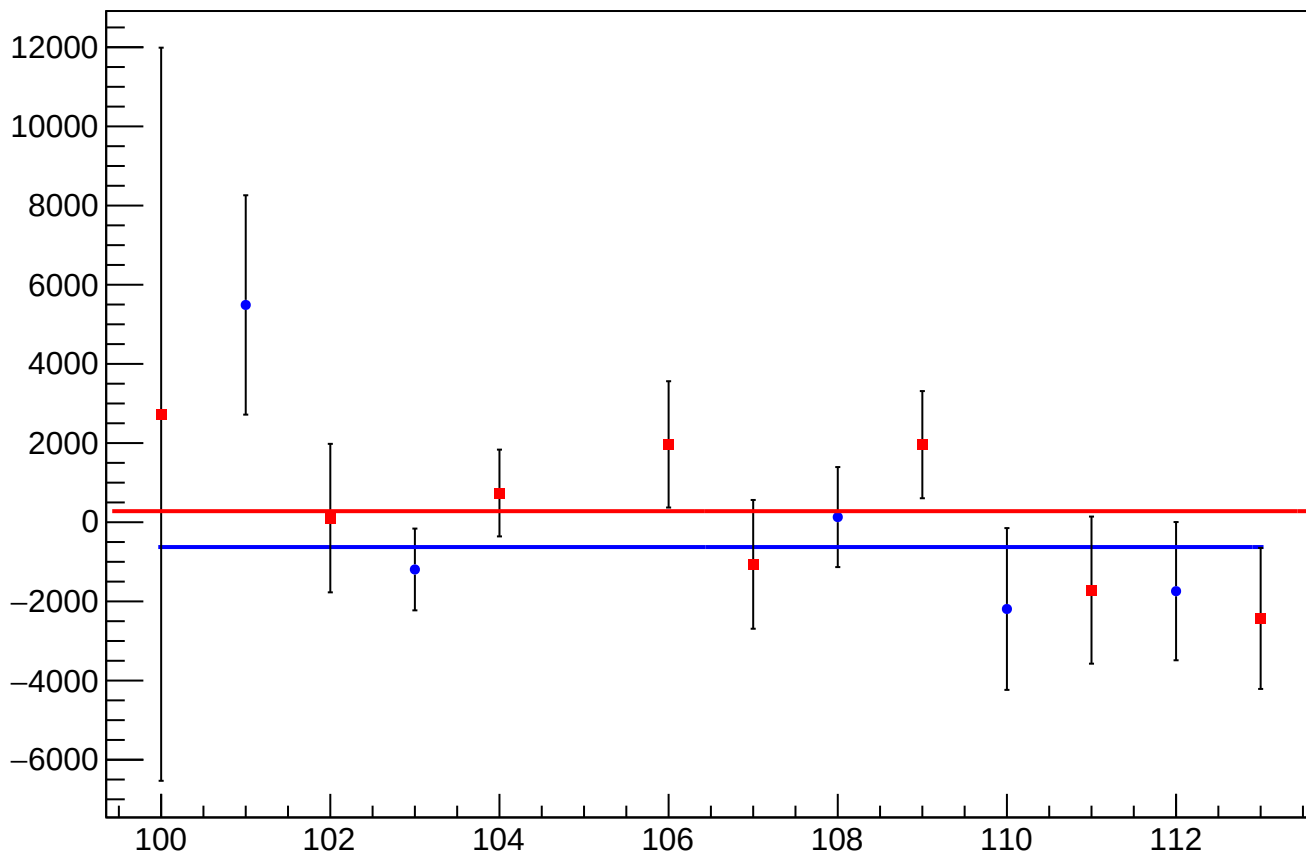
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1147958.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usr\_atr2\_dd\_mean vs Slug



Right In: -626.930+/-664.974  $\chi^2/\text{NDF}$ : 6.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 279.578+/-572.638  $\chi^2/\text{NDF}$ : 7.1/7

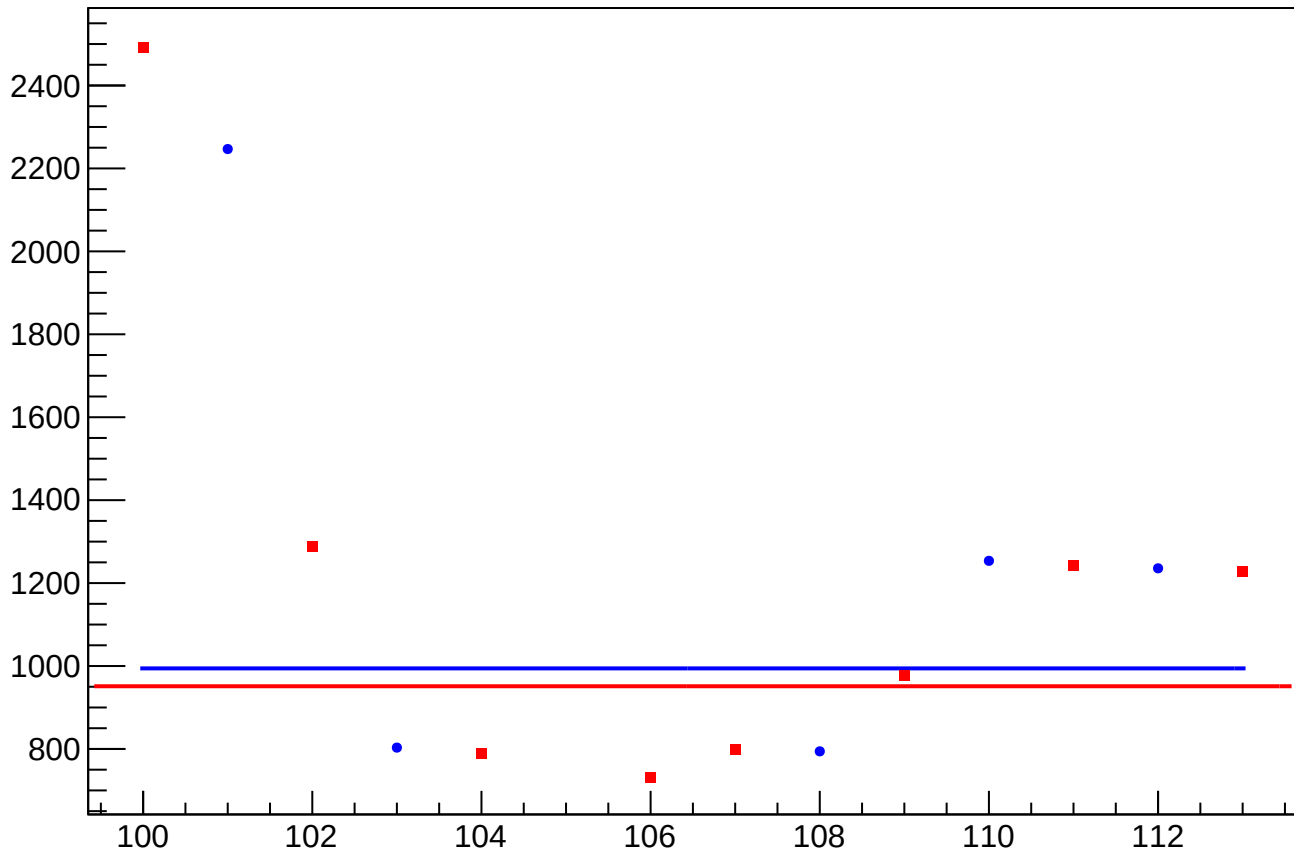
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -106.417+/-433.920  $\chi^2/\text{NDF}$ : 14.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 994.281+/-0.470  $\chi^2/\text{NDF}$ : 597641.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 951.207+/-0.398  $\chi^2/\text{NDF}$ : 327102.5/7

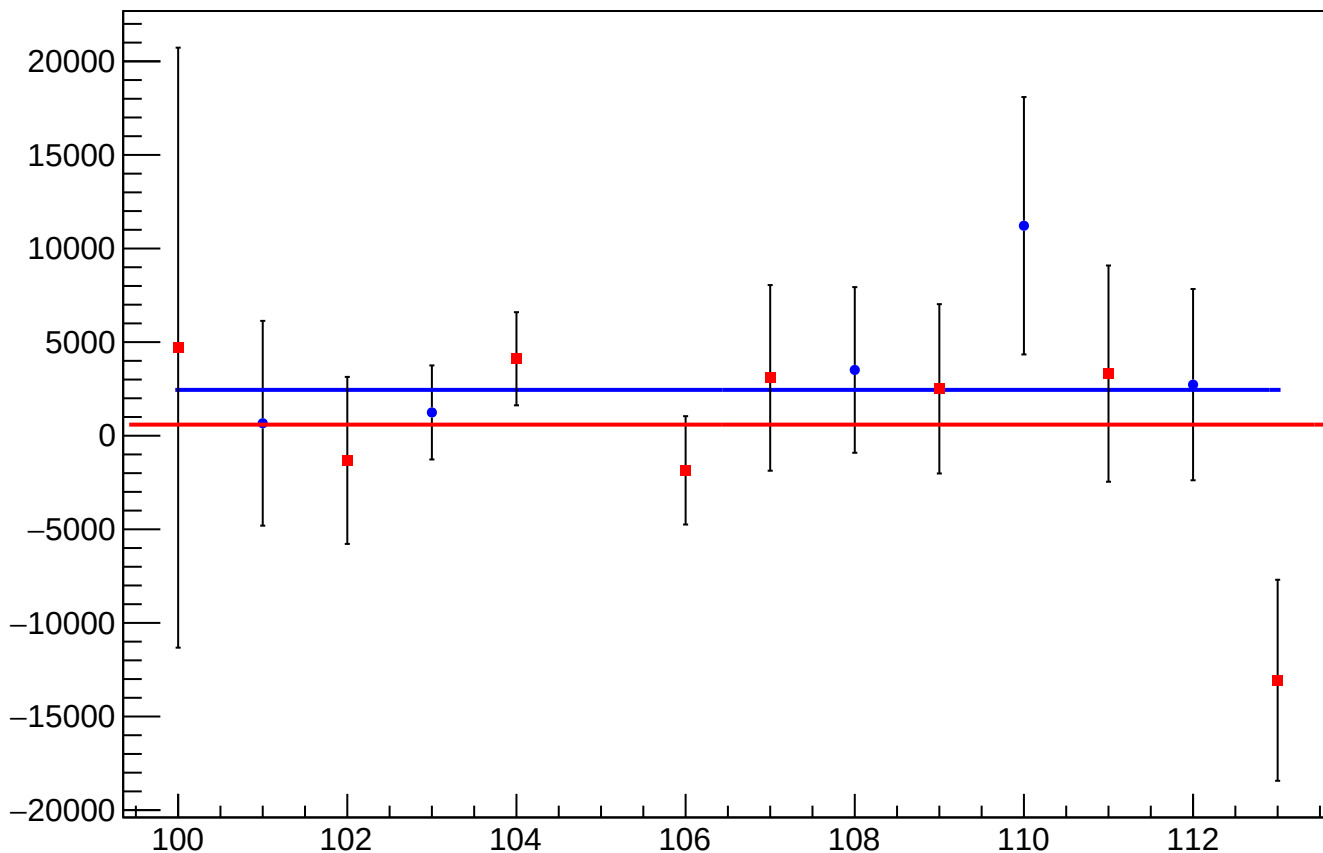
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 969.212+/-0.304  $\chi^2/\text{NDF}$ : 929627.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_reg\_correction\_mean vs Slug



Right In: 2448.833+/-1818.424  $\chi^2/\text{NDF}$ : 2.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 592.493+/-1429.676  $\chi^2/\text{NDF}$ : 10.1/7

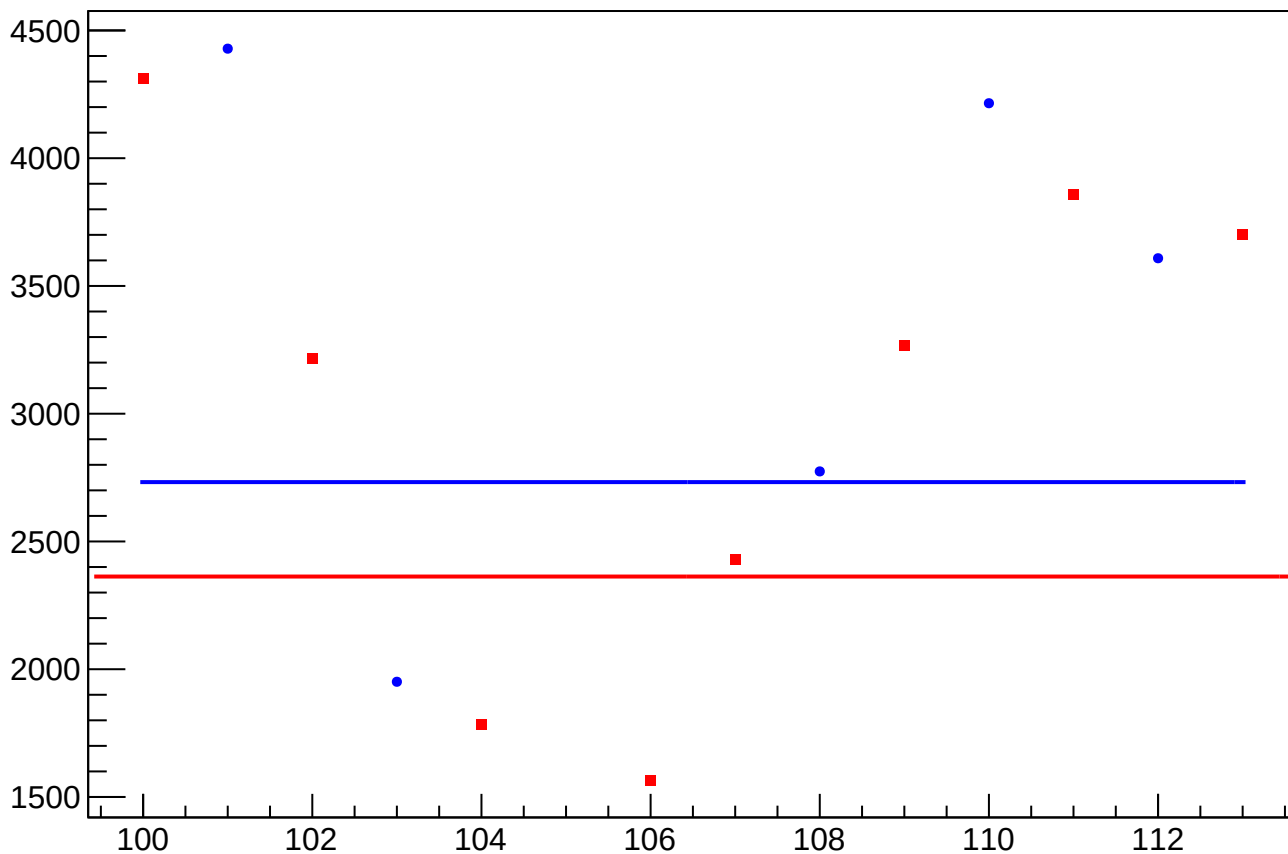
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1301.625+/-1123.906  $\chi^2/\text{NDF}$ : 12.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_reg\_correction\_rms vs Slug



Right In: 2732.312+/-1.286  $\chi^2/\text{NDF}$ : 537941.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2362.732+/-1.011  $\chi^2/\text{NDF}$ : 701554.1/7

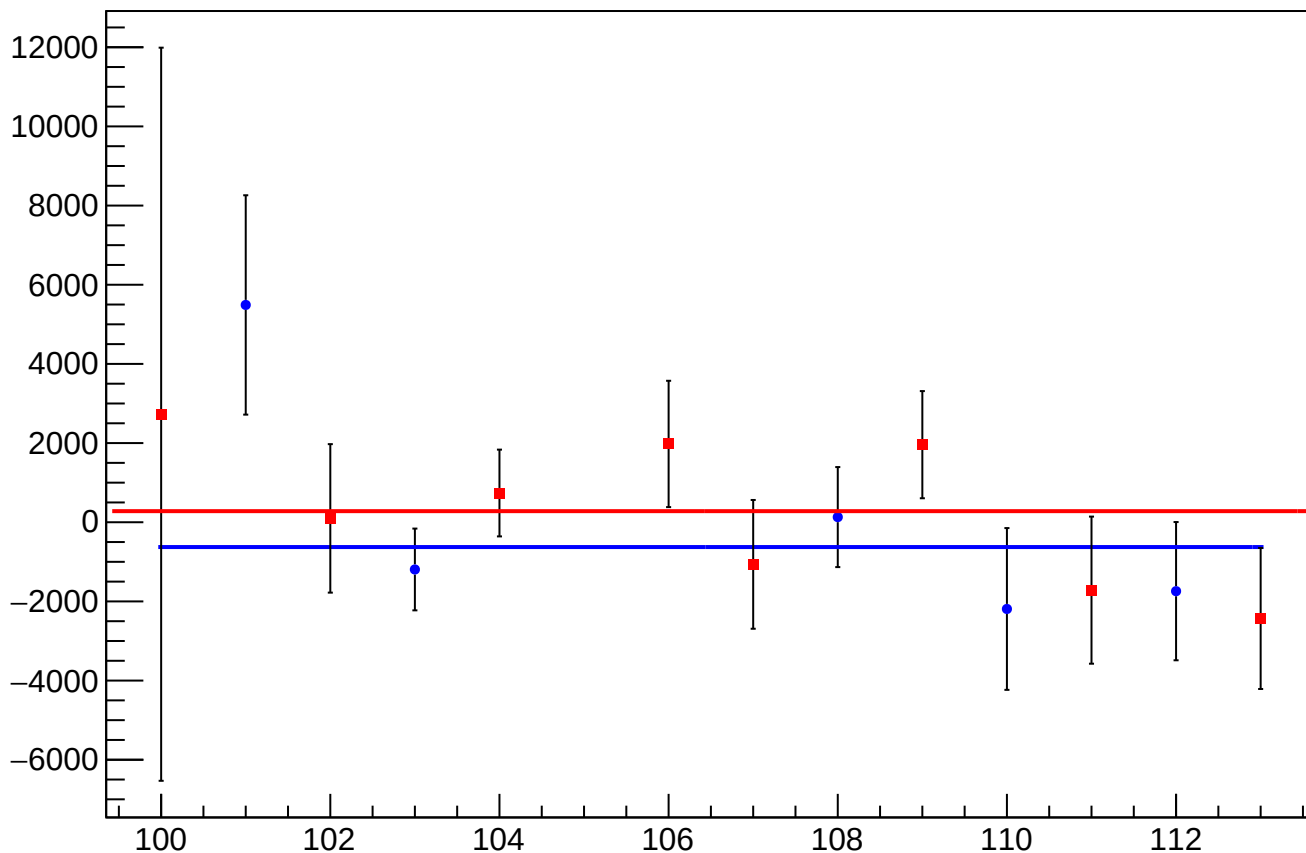
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2503.914+/-0.795  $\chi^2/\text{NDF}$ : 1290551.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usr\_atr2\_dd\_mean vs Slug



Right In: -626.769+/-664.975  $\chi^2/\text{NDF}$ : 6.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 280.155+/-572.649  $\chi^2/\text{NDF}$ : 7.1/7

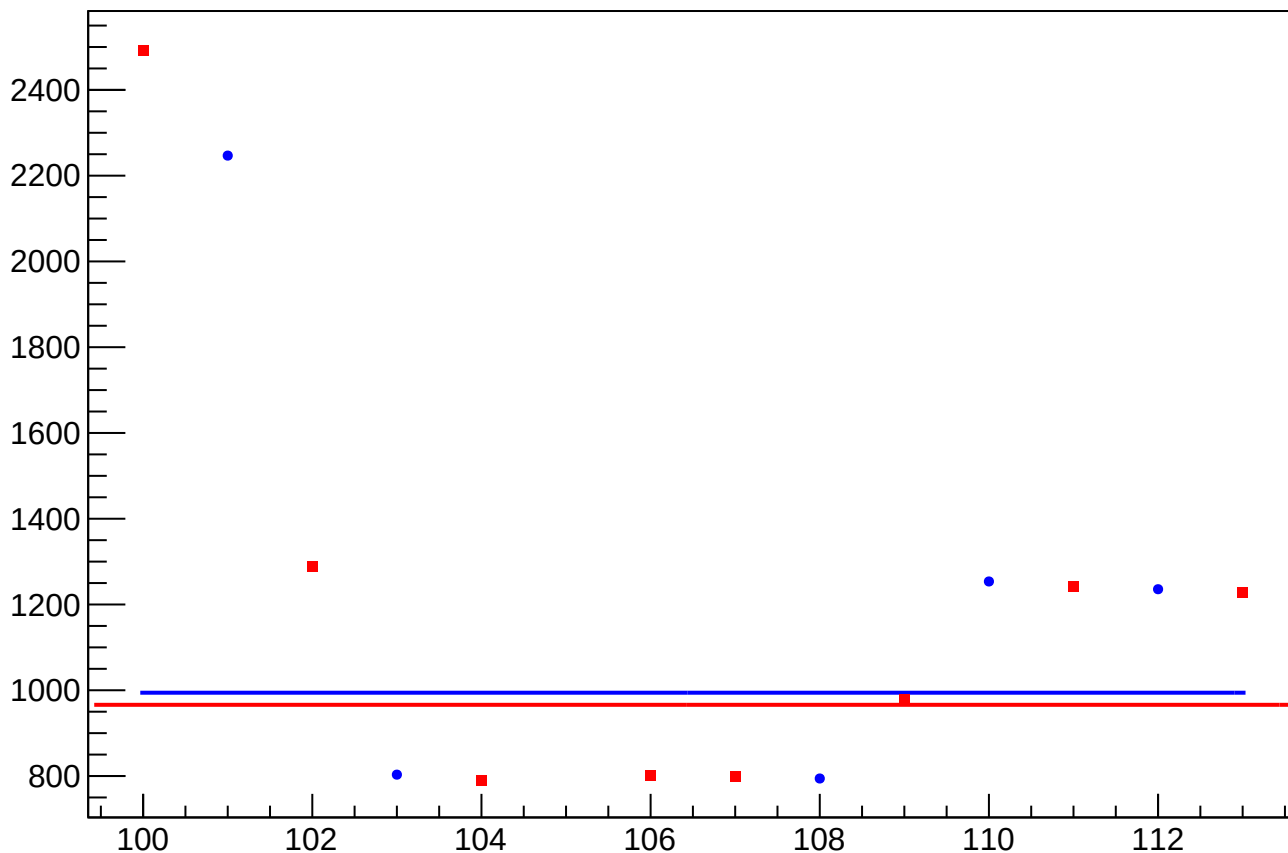
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -106.026+/-433.925  $\chi^2/\text{NDF}$ : 14.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 994.282+/-0.470  $\chi^2/\text{NDF}$ : 597639.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 966.056+/-0.403  $\chi^2/\text{NDF}$ : 297015.8/7

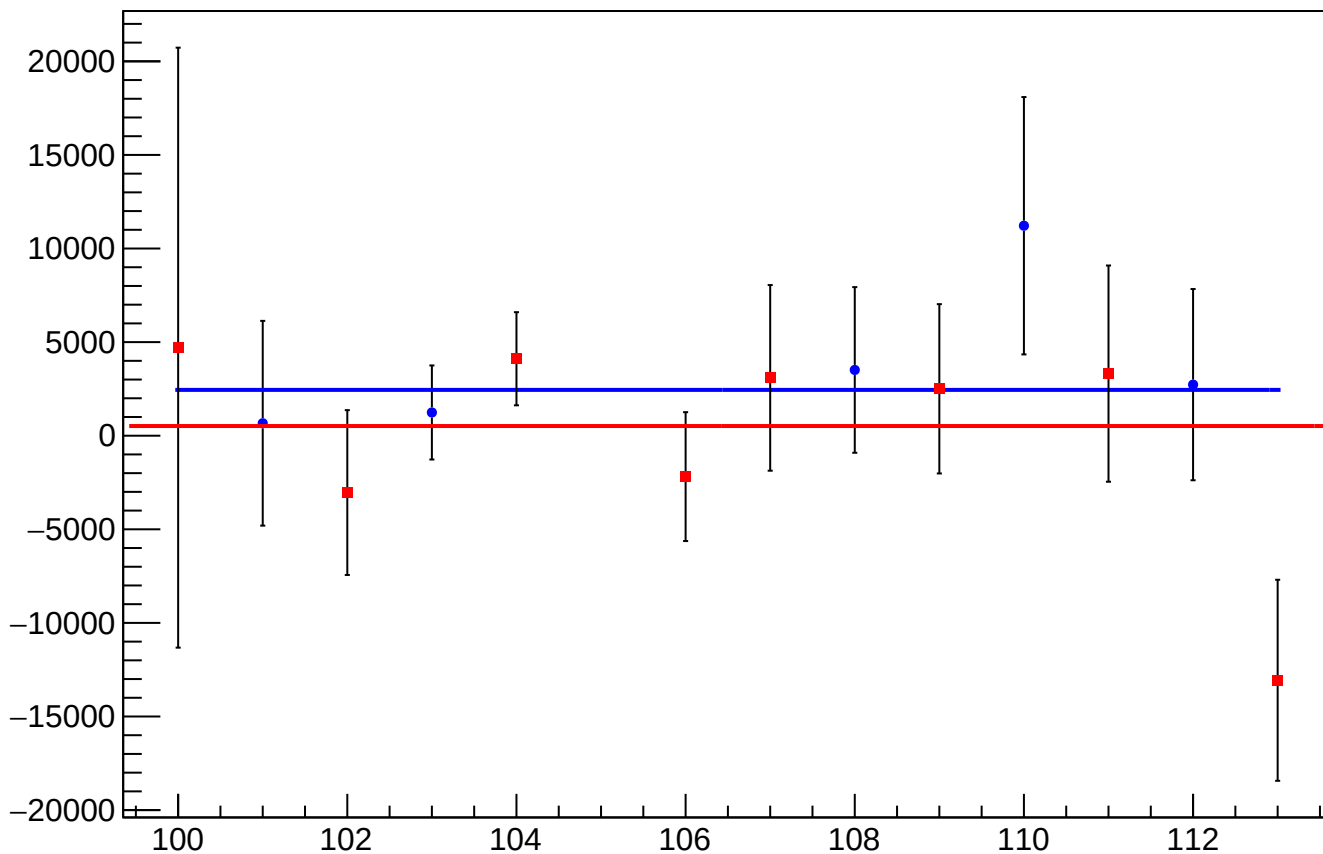
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 978.024+/-0.306  $\chi^2/\text{NDF}$ : 896730.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_cor\_correction\_mean vs Slug



Right In: 2447.938 $\pm$ 1818.586  $\chi^2$ /NDF: 2.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 517.506 $\pm$ 1481.503  $\chi^2$ /NDF: 10.5/7

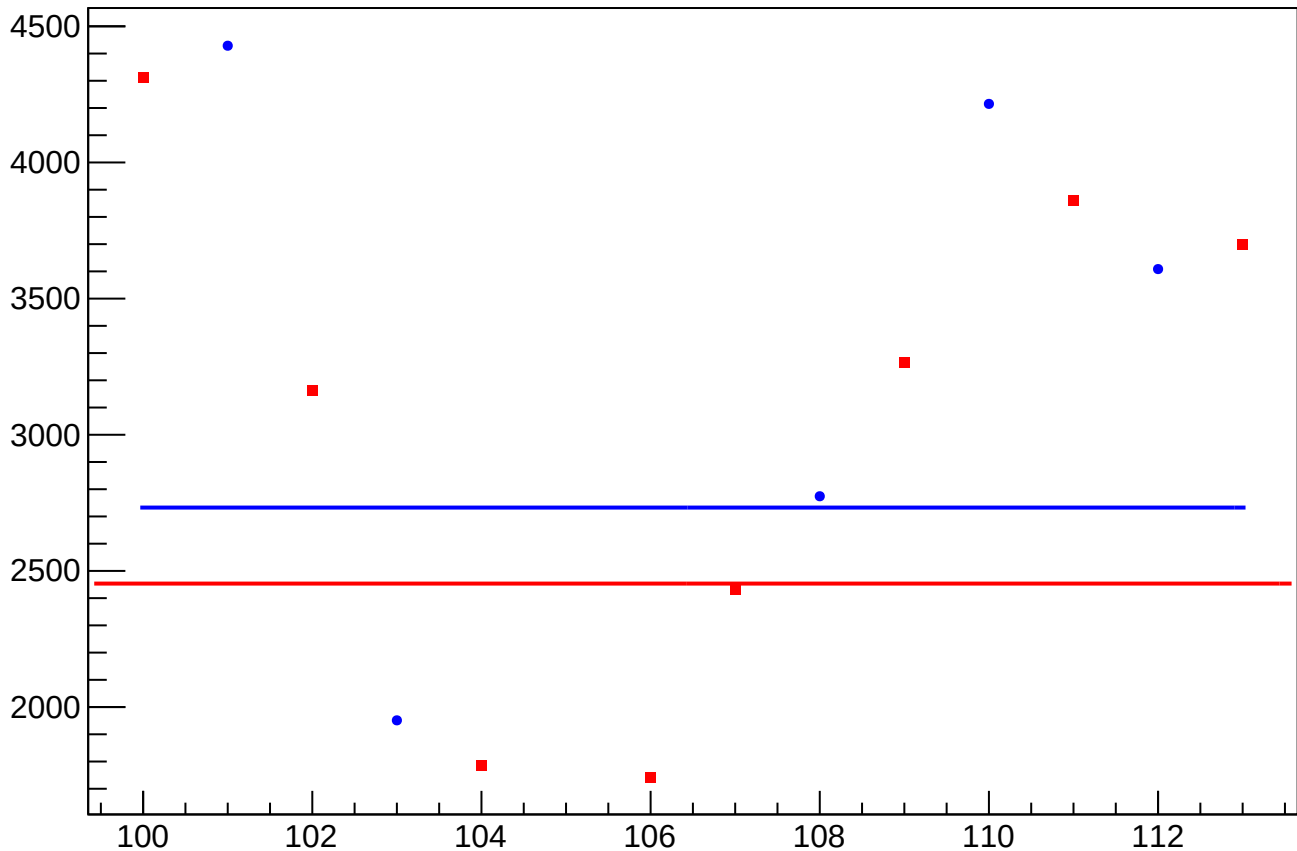
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1287.577 $\pm$ 1148.608  $\chi^2$ /NDF: 13.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_dd\_cor\_correction\_rms vs Slug



Right In: 2732.637+/-1.286  $\chi^2/\text{NDF}$ : 537698.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2453.481+/-1.048  $\chi^2/\text{NDF}$ : 600246.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

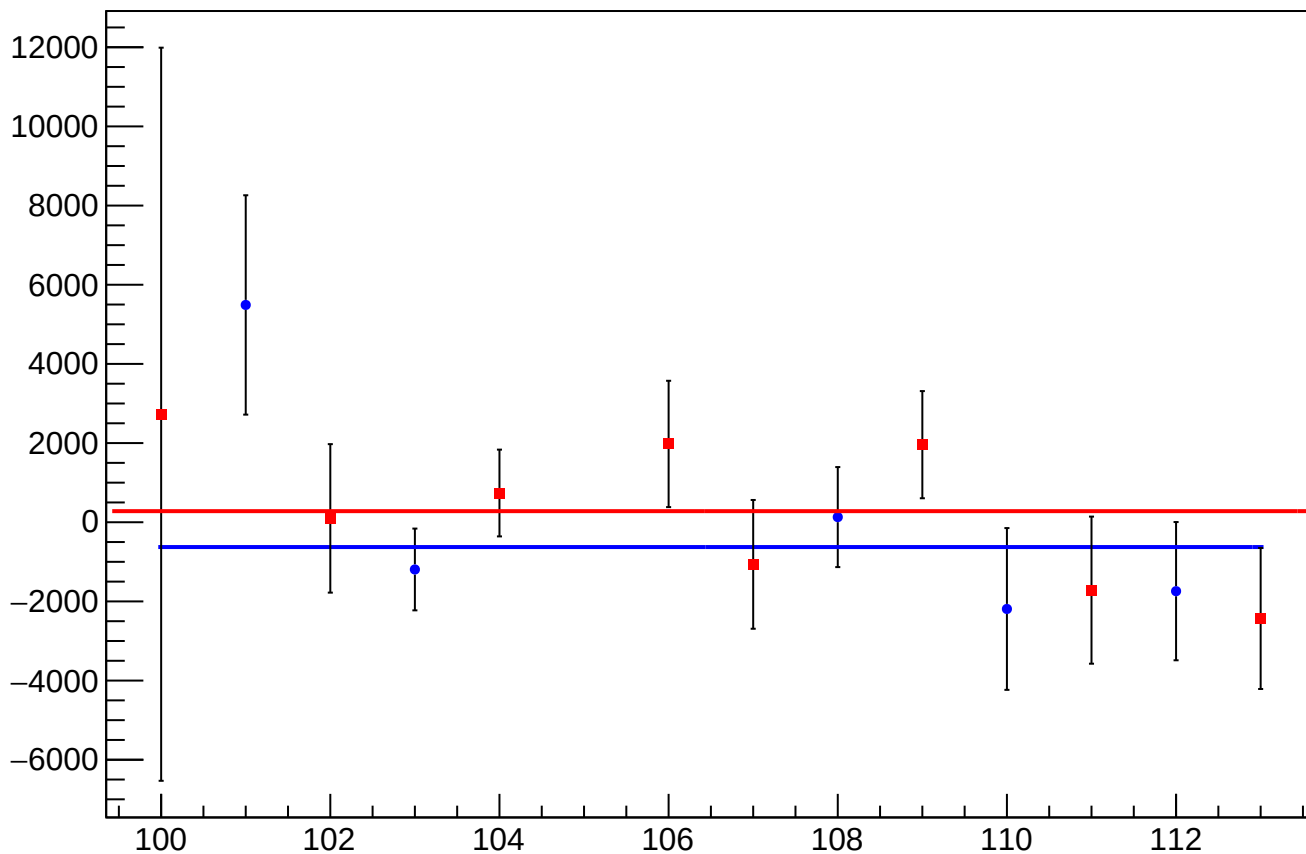
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2564.840+/-0.812  $\chi^2/\text{NDF}$ : 1166271.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_usr\_atr2\_dd\_mean vs Slug



Right In: -626.769+/-664.975  $\chi^2/\text{NDF}$ : 6.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 280.155+/-572.649  $\chi^2/\text{NDF}$ : 7.1/7

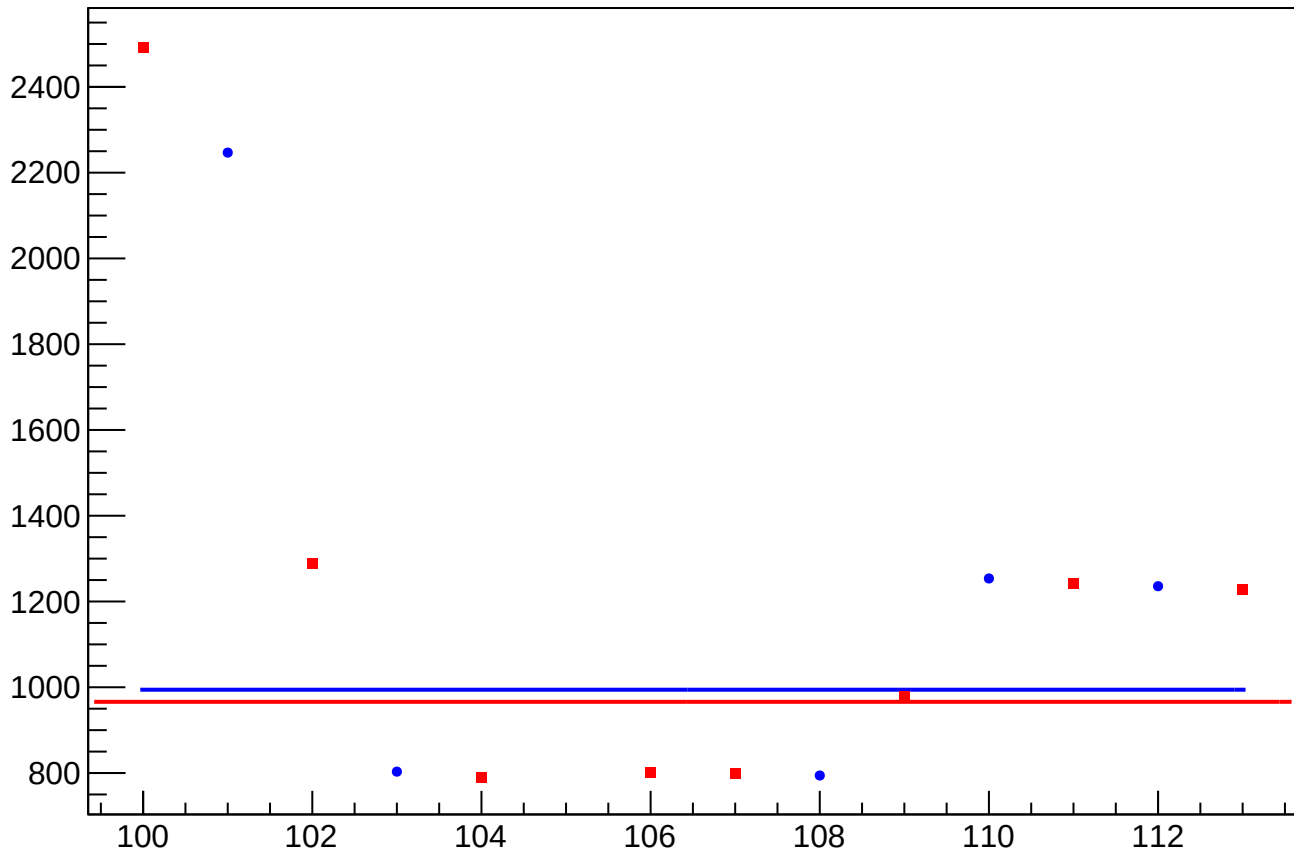
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -106.026+/-433.925  $\chi^2/\text{NDF}$ : 14.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 994.282 $\pm$ 0.470  $\chi^2$ /NDF: 597639.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 966.056 $\pm$ 0.403  $\chi^2$ /NDF: 297015.8/7

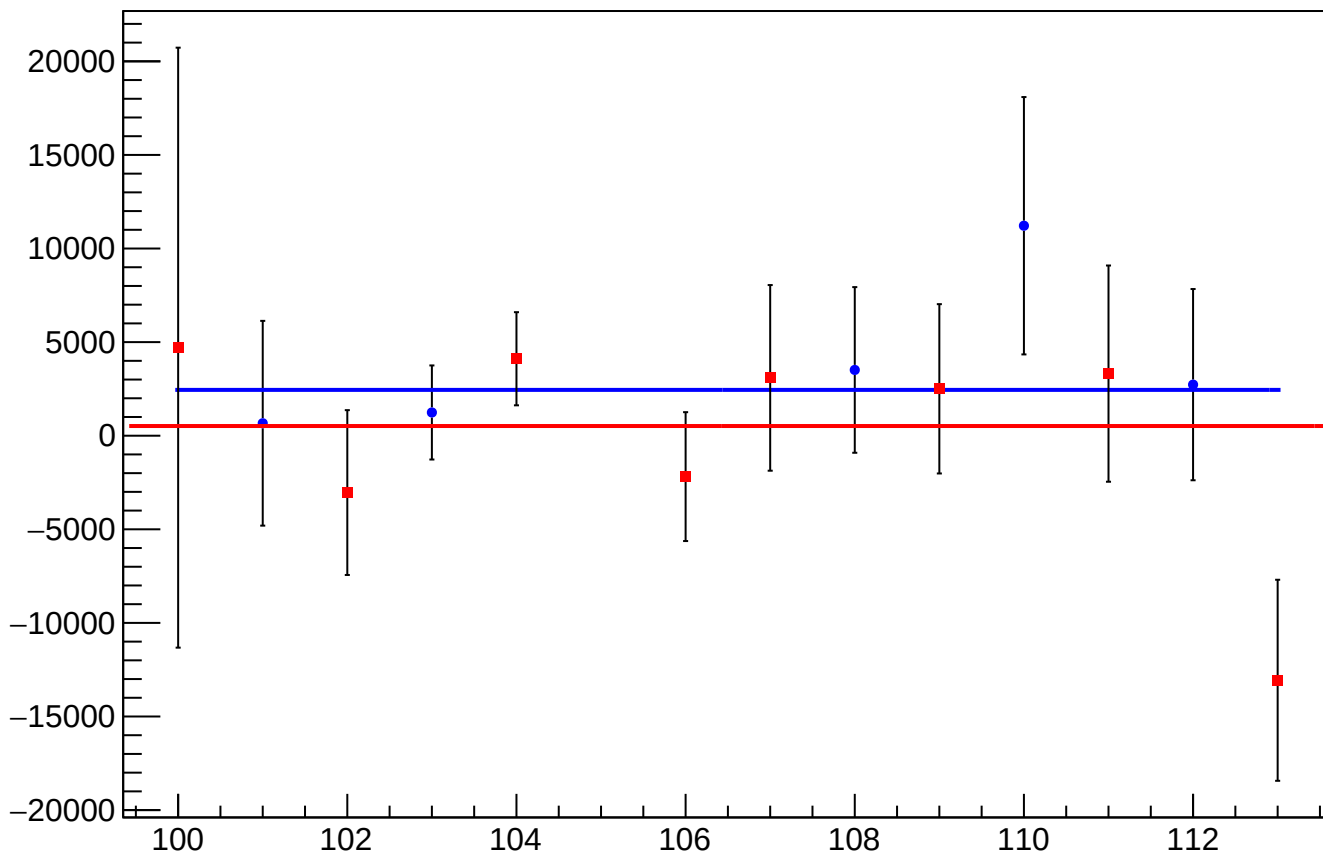
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 978.024 $\pm$ 0.306  $\chi^2$ /NDF: 896730.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 2447.938+/-1818.586  $\chi^2/\text{NDF}$ : 2.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 517.506+/-1481.503  $\chi^2/\text{NDF}$ : 10.5/7

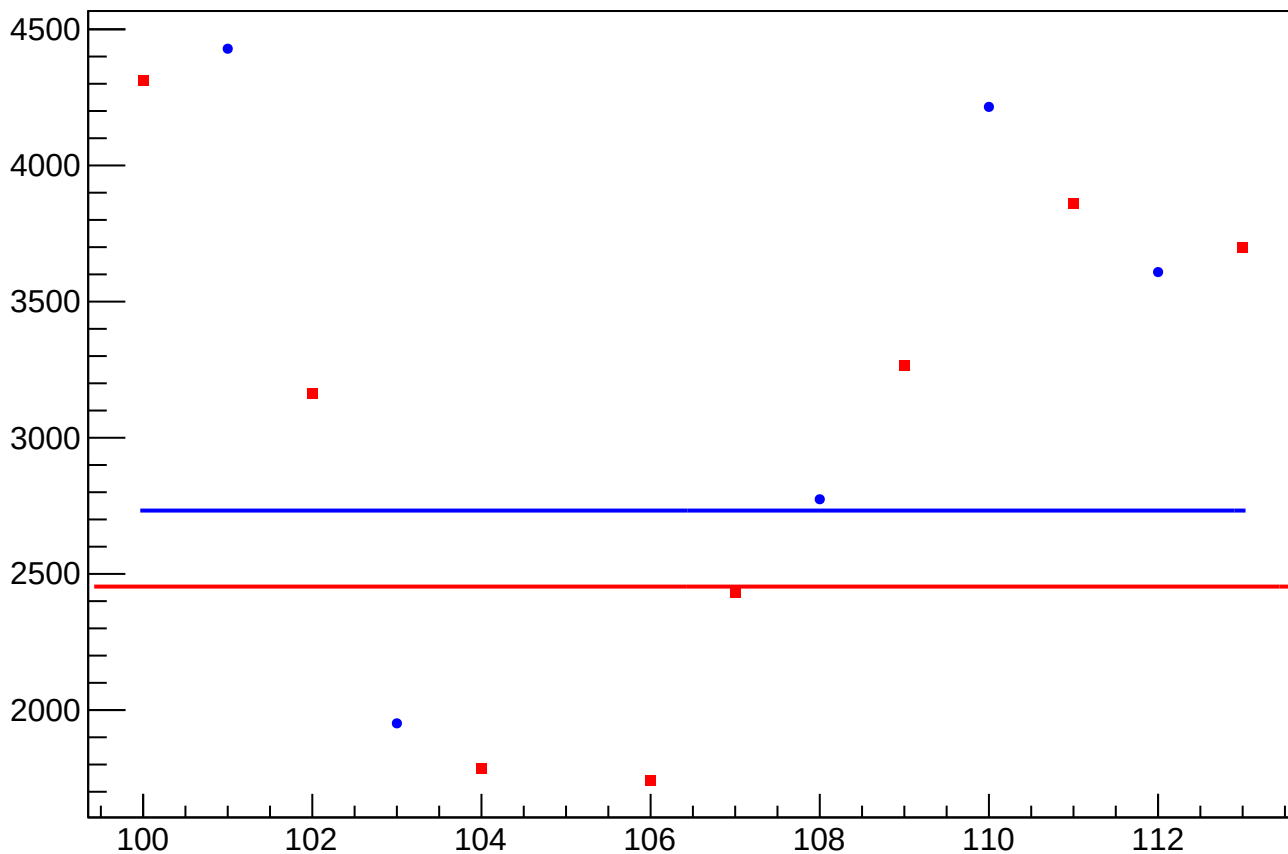
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1287.577+/-1148.608  $\chi^2/\text{NDF}$ : 13.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 2732.637+/-1.286  $\chi^2/\text{NDF}$ : 537698.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2453.481+/-1.048  $\chi^2/\text{NDF}$ : 600246.9/7

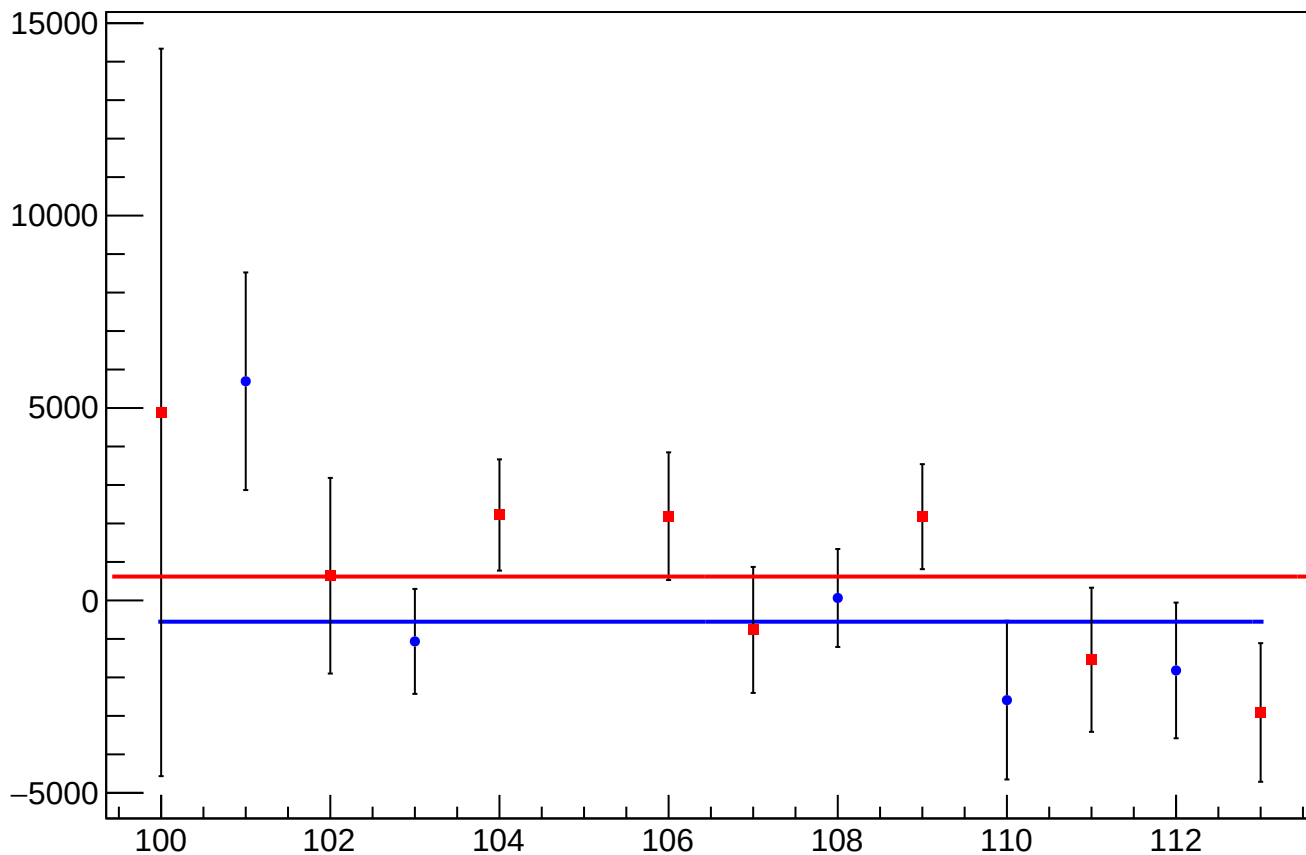
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2564.840+/-0.812  $\chi^2/\text{NDF}$ : 1166271.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usr\_atr2\_dd\_mean vs Slug



Right In: -552.582+/-737.738  $\chi^2/\text{NDF}$ : 6.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 620.395+/-630.998  $\chi^2/\text{NDF}$ : 9.5/7

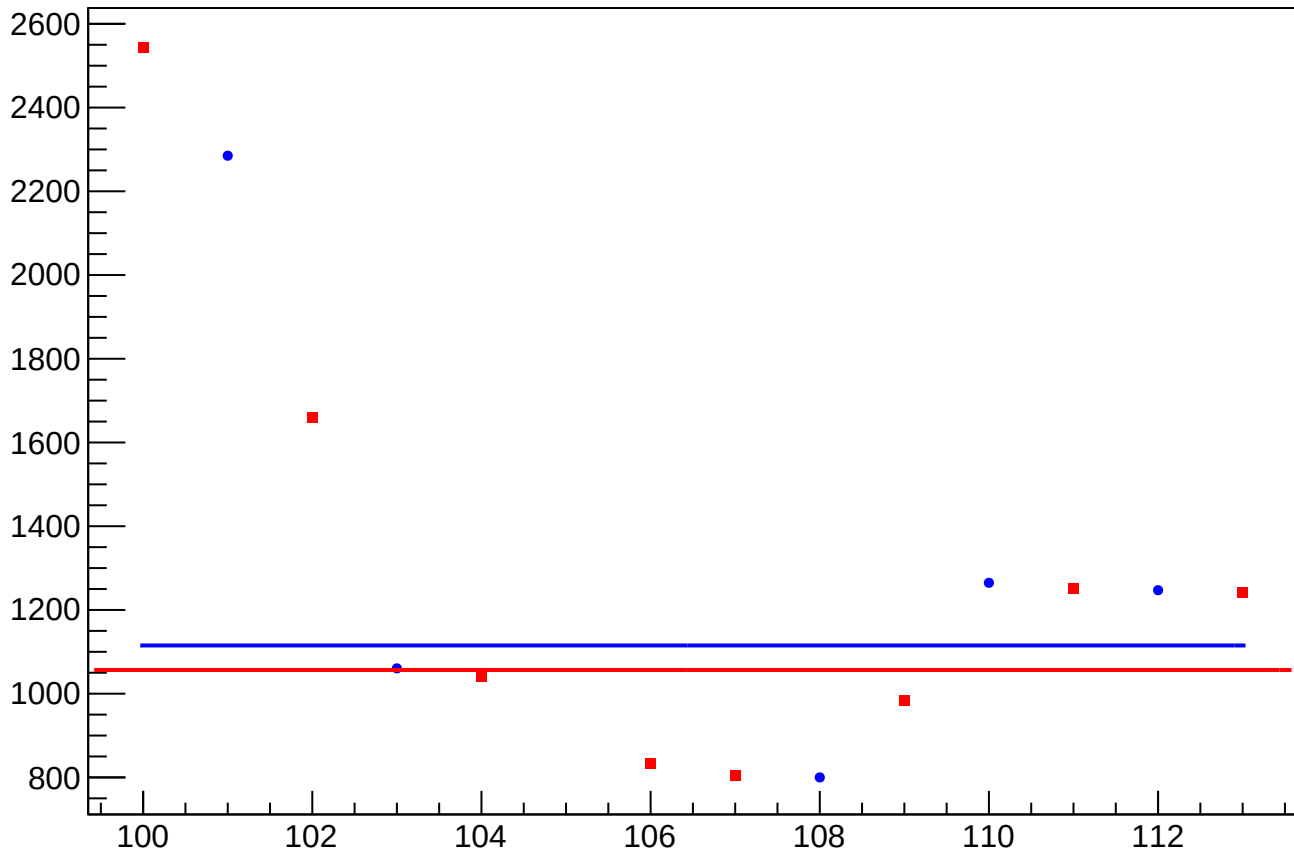
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 124.827+/-479.523  $\chi^2/\text{NDF}$ : 17.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 1115.184 $\pm$ 0.522  $\chi^2$ /NDF: 489990.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

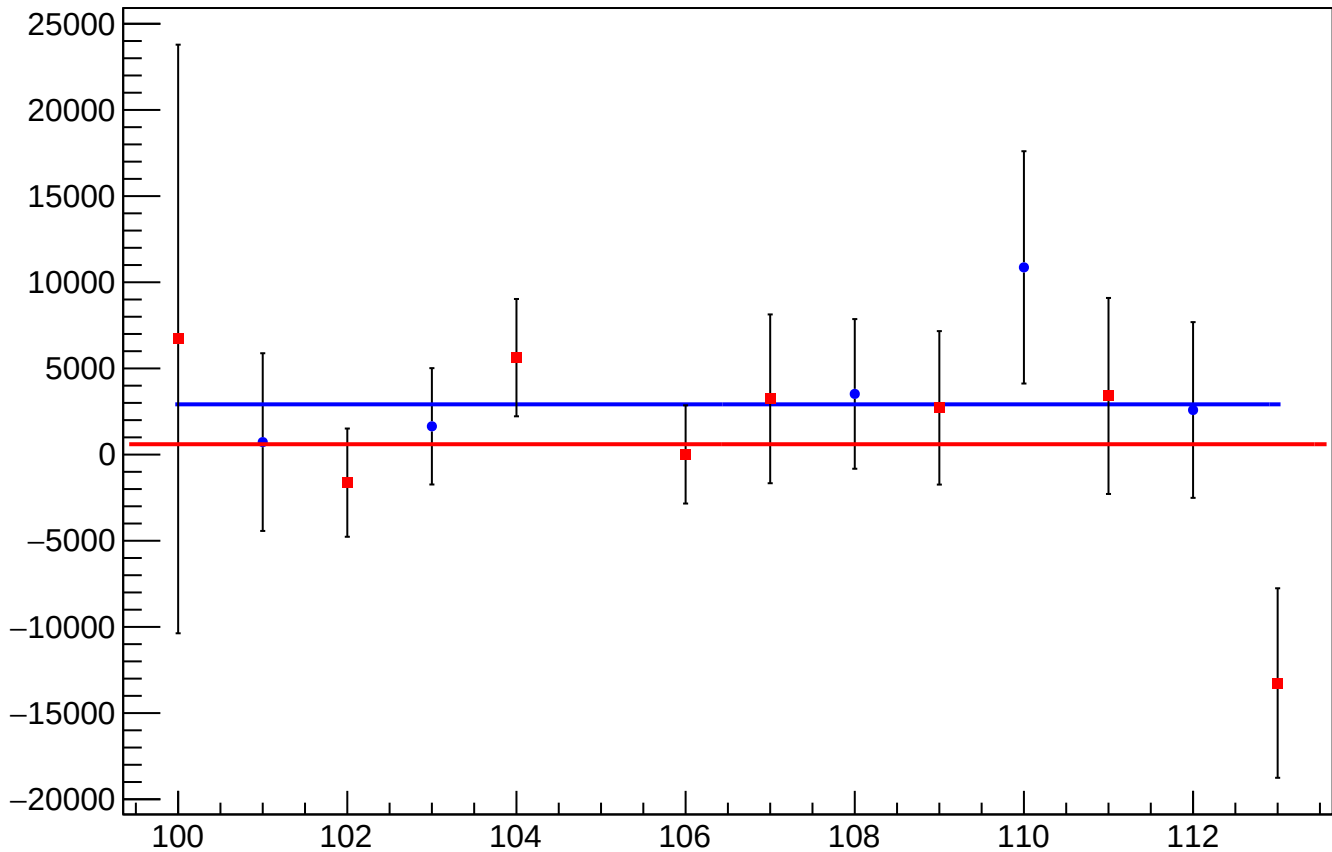
Right Out: 1056.655 $\pm$ 0.446  $\chi^2$ /NDF: 294996.5/7

All: 1081.356 $\pm$ 0.339  $\chi^2$ /NDF: 792262.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_dd\_dit\_correction\_mean vs Slug



Right In: 2916.616 $\pm$ 2046.143  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 601.787 $\pm$ 1458.141  $\chi^2/\text{NDF}$ : 10.0/7

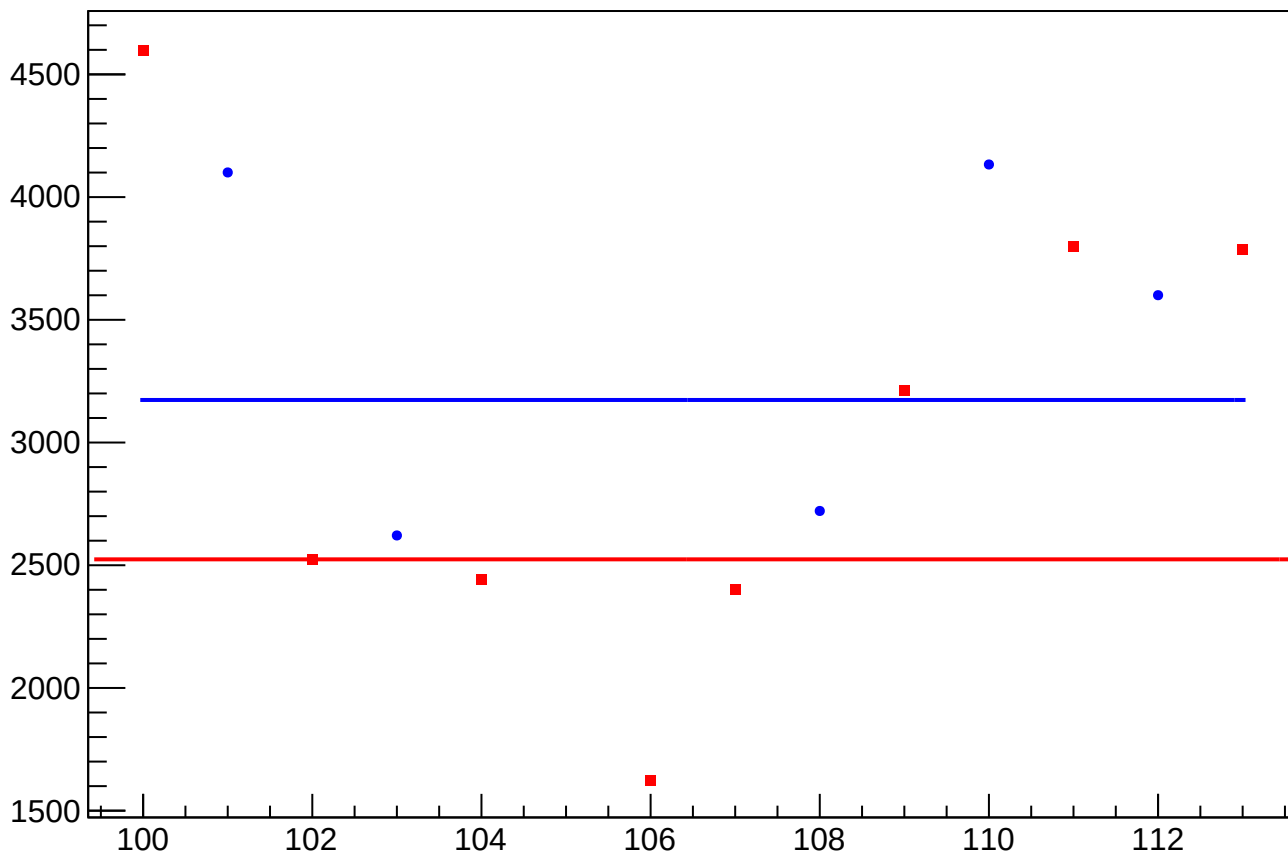
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1381.421 $\pm$ 1187.468  $\chi^2/\text{NDF}$ : 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_dit\_correction\_rms vs Slug



Right In: 3173.400+/-1.447  $\chi^2/\text{NDF}$ : 194359.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2524.032+/-1.031  $\chi^2/\text{NDF}$ : 485592.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

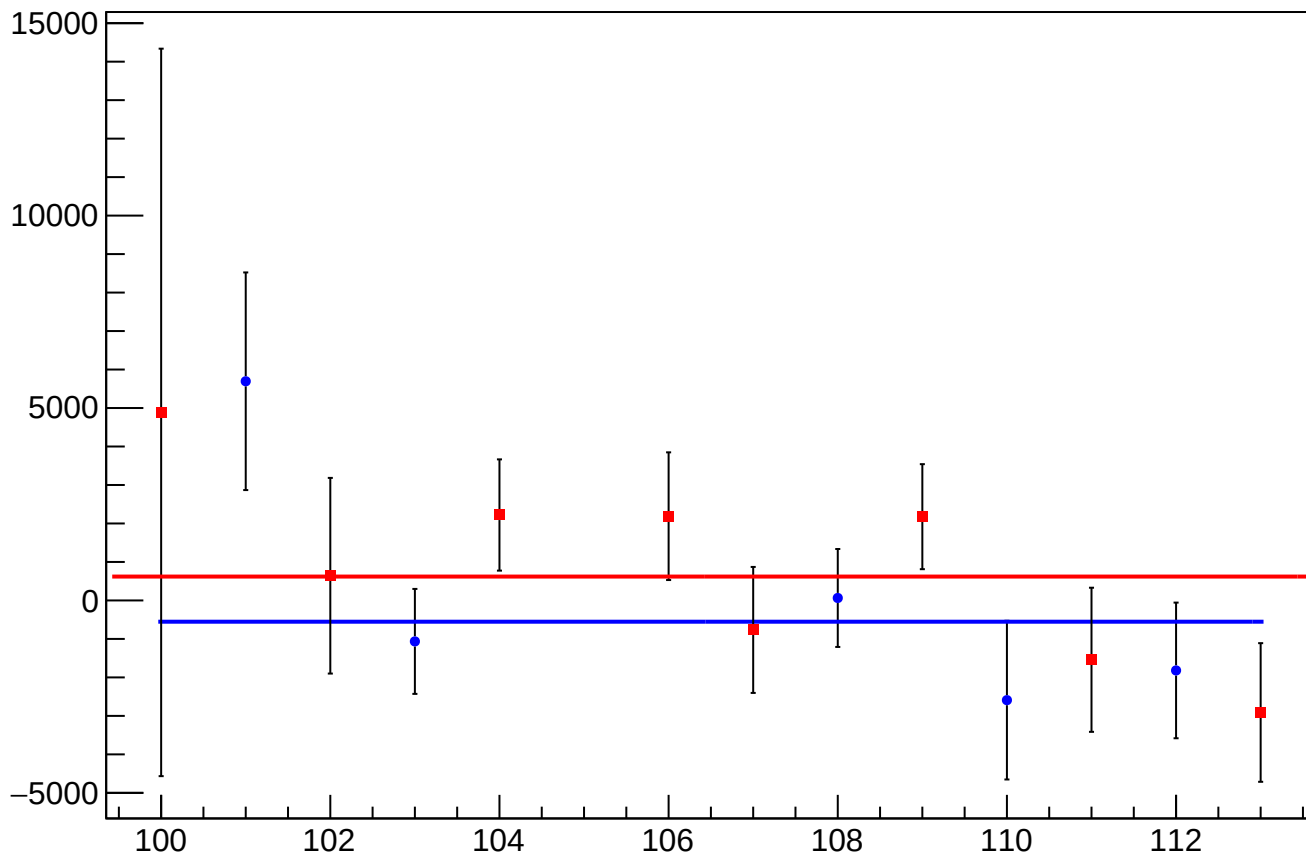
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2742.739+/-0.840  $\chi^2/\text{NDF}$ : 813545.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_usr\_atr2\_dd\_mean vs Slug



Right In: -552.581+/-737.738  $\chi^2/\text{NDF}$ : 6.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 620.399+/-630.999  $\chi^2/\text{NDF}$ : 9.5/7

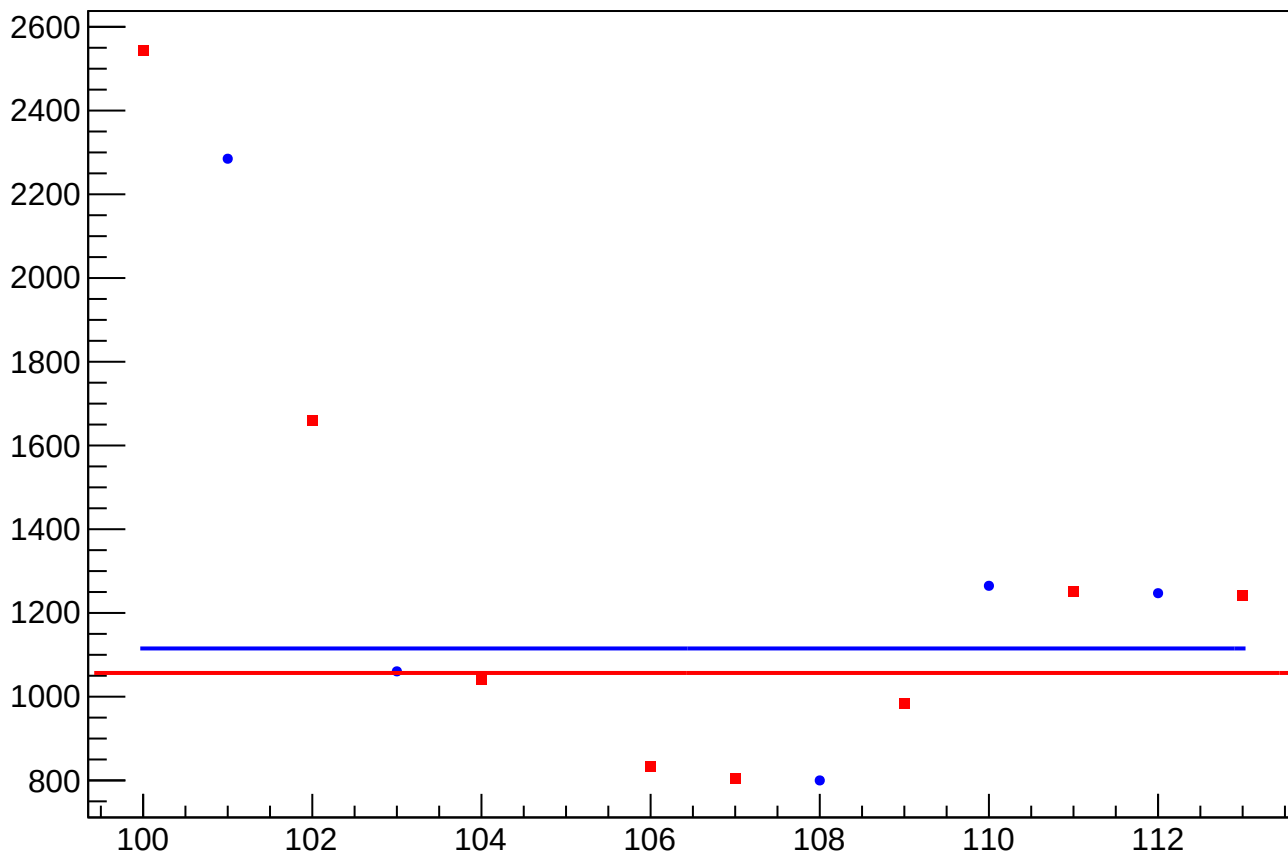
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 124.829+/-479.523  $\chi^2/\text{NDF}$ : 17.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 1115.184+/-0.522  $\chi^2/\text{NDF}$ : 489990.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1056.655+/-0.446  $\chi^2/\text{NDF}$ : 294996.5/7

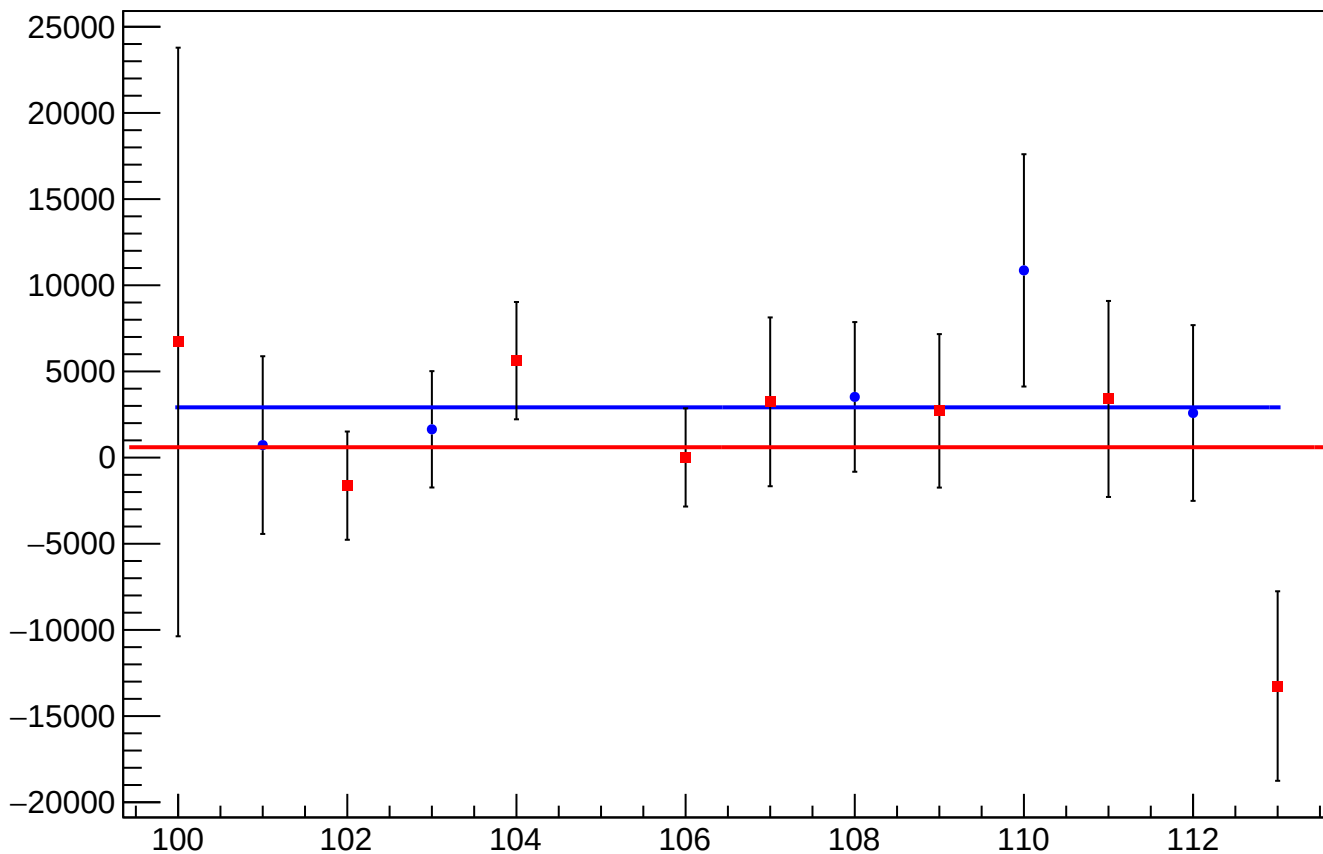
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1081.356+/-0.339  $\chi^2/\text{NDF}$ : 792262.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 2916.619 $\pm$ 2046.143  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 601.797 $\pm$ 1458.139  $\chi^2$ /NDF: 10.0/7

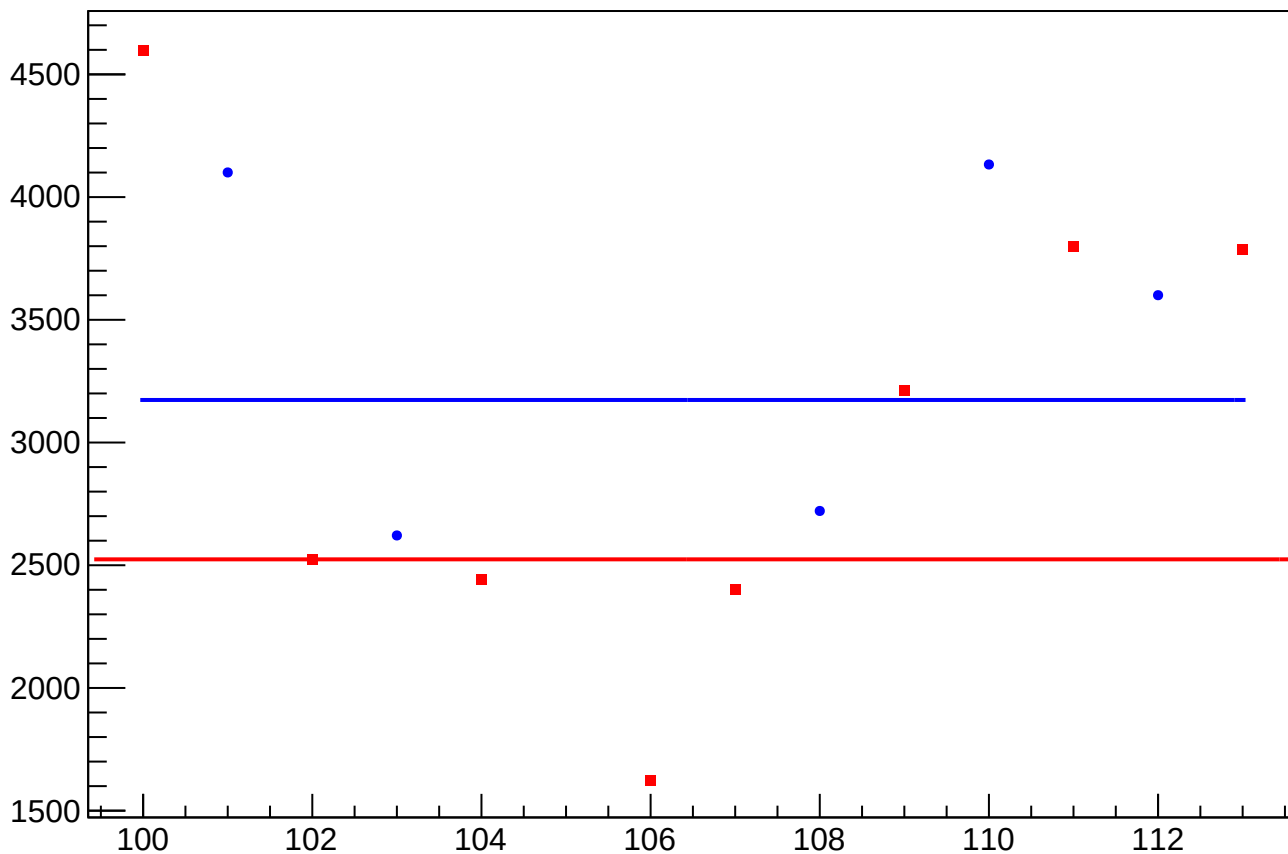
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1381.427 $\pm$ 1187.467  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 3173.401+/-1.447  $\chi^2/\text{NDF}$ : 194357.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2524.028+/-1.031  $\chi^2/\text{NDF}$ : 485595.2/7

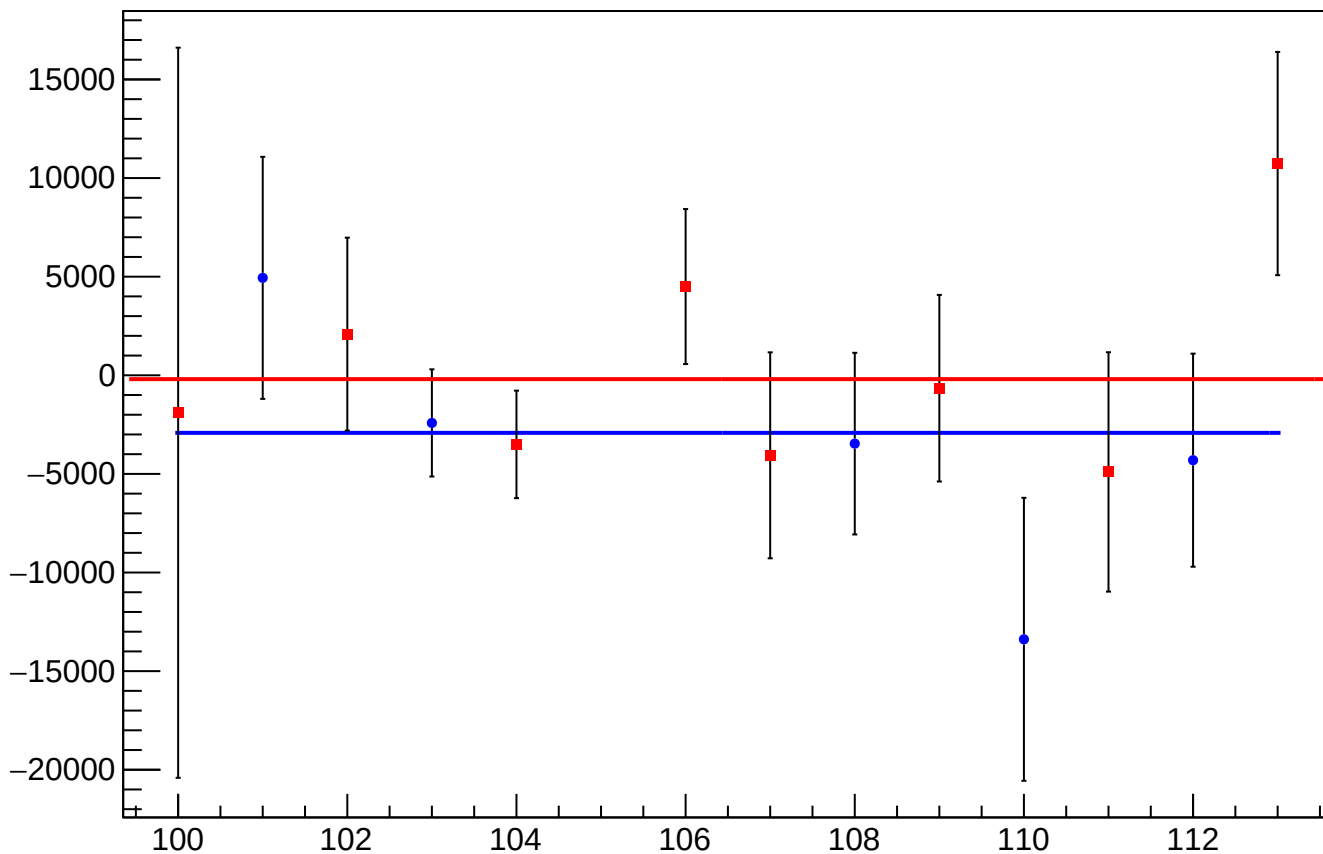
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2742.736+/-0.840  $\chi^2/\text{NDF}$ : 813548.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_mean vs Slug



Right In: -2918.118+/-1950.849  $\chi^2$ /NDF: 3.9/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -194.441+/-1614.217  $\chi^2$ /NDF: 8.0/7

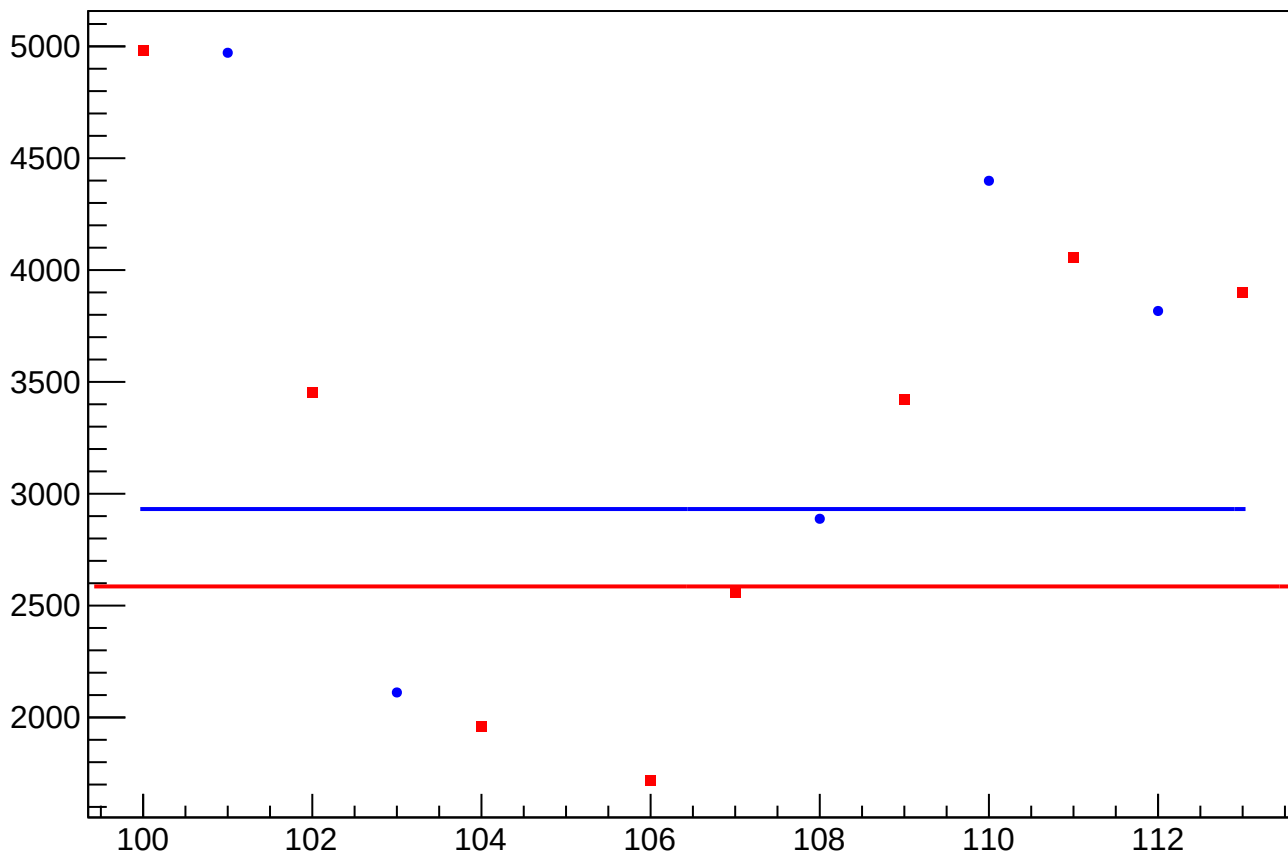
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1301.369+/-1243.671  $\chi^2$ /NDF: 13.1/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 2931.644+/-1.379  $\chi^2/\text{NDF}$ : 540564.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2585.661+/-1.109  $\chi^2/\text{NDF}$ : 621766.7/7

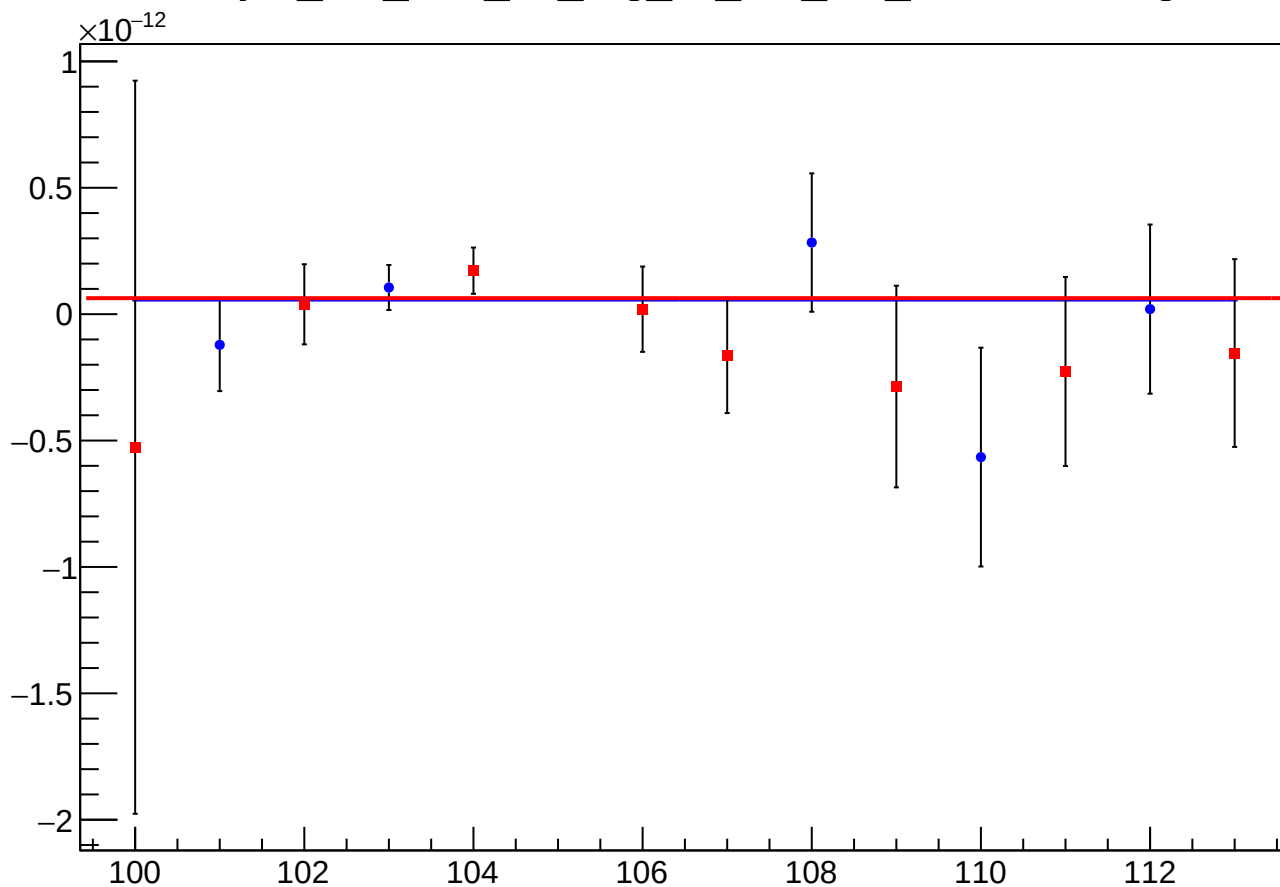
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2721.458+/-0.864  $\chi^2/\text{NDF}$ : 1200546.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.4/7

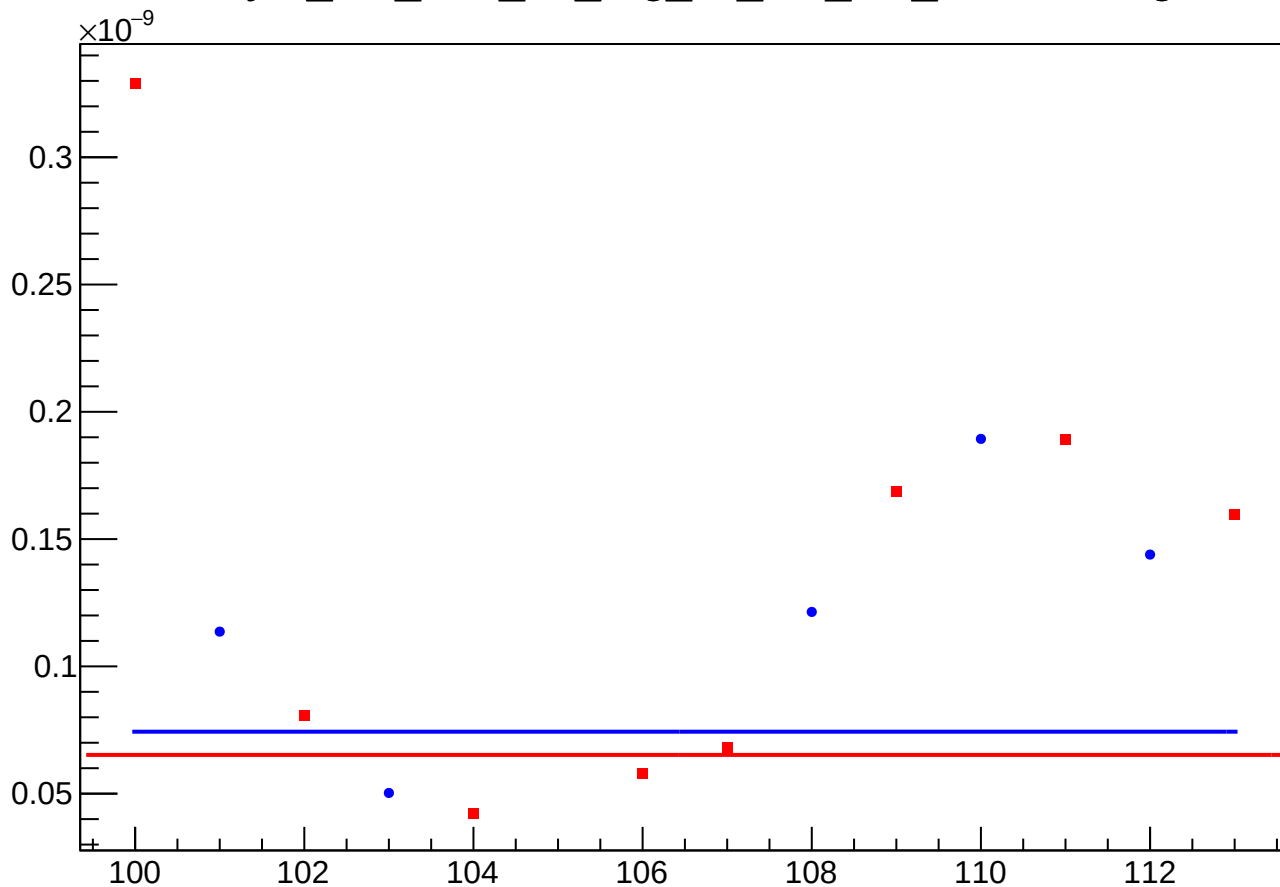
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 525282.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 699759.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

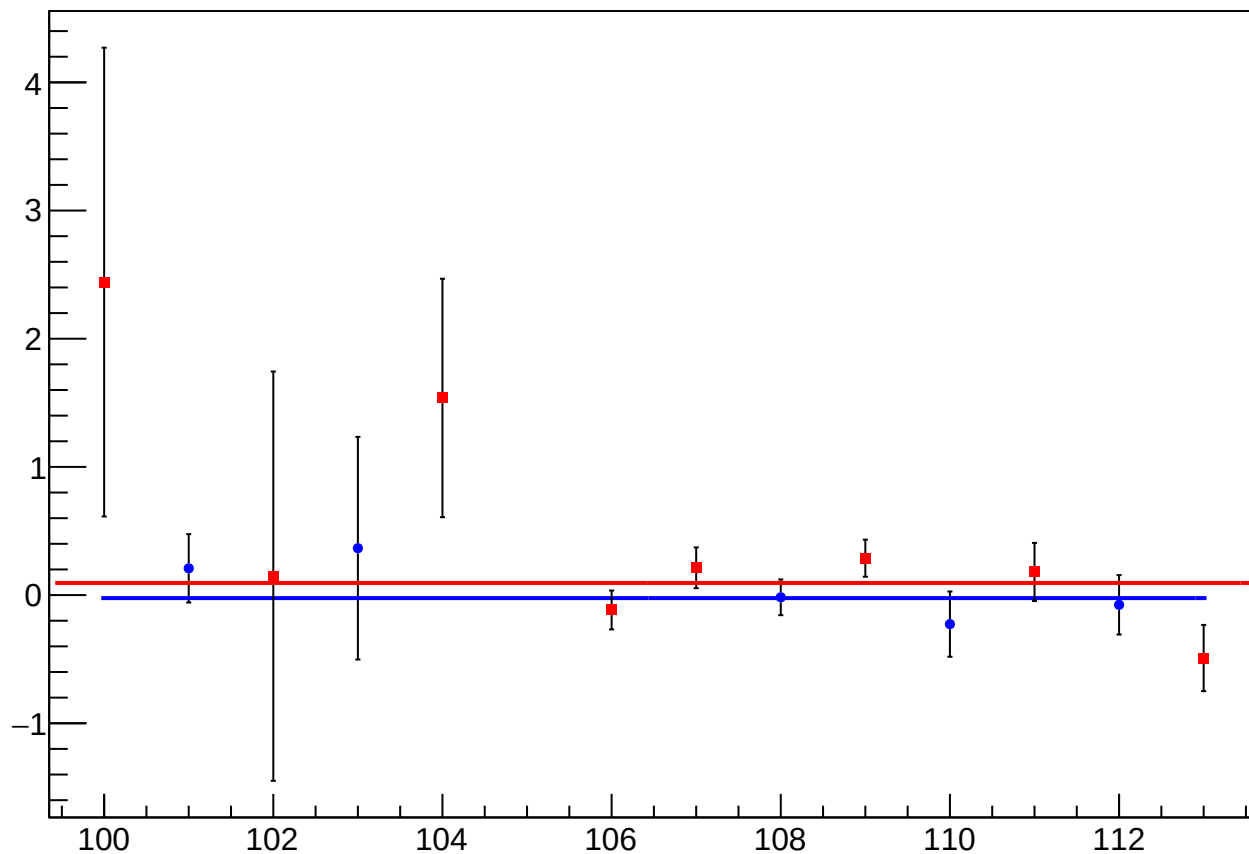
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1242179.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_usr\_atr2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.024 $\pm$ 0.100  $\chi^2$ /NDF: 1.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.095 $\pm$ 0.077  $\chi^2$ /NDF: 13.6/7

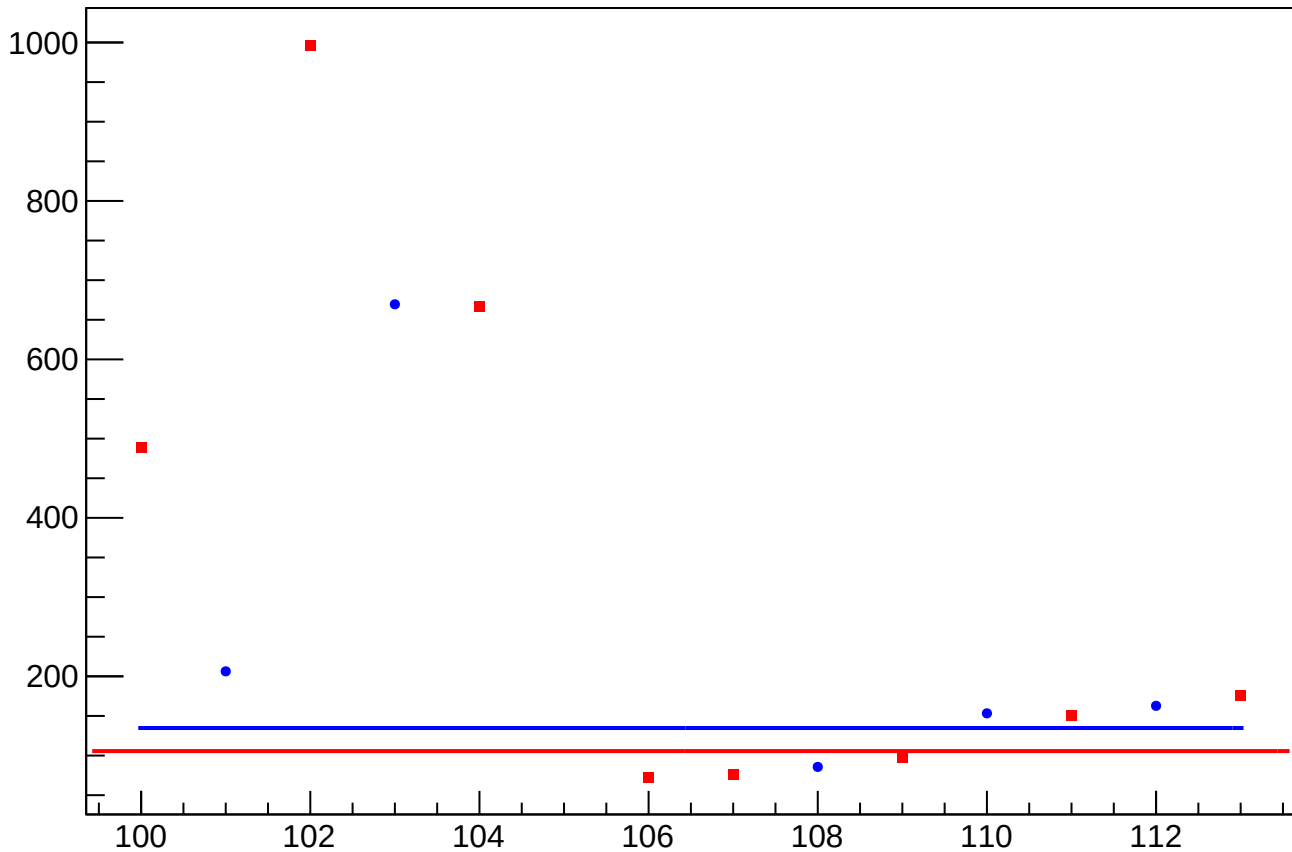
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.050 $\pm$ 0.061  $\chi^2$ /NDF: 16.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 134.769 $\pm$ 0.070  $\chi^2$ /NDF: 1189317.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 105.663 $\pm$ 0.055  $\chi^2$ /NDF: 1844384.5/7

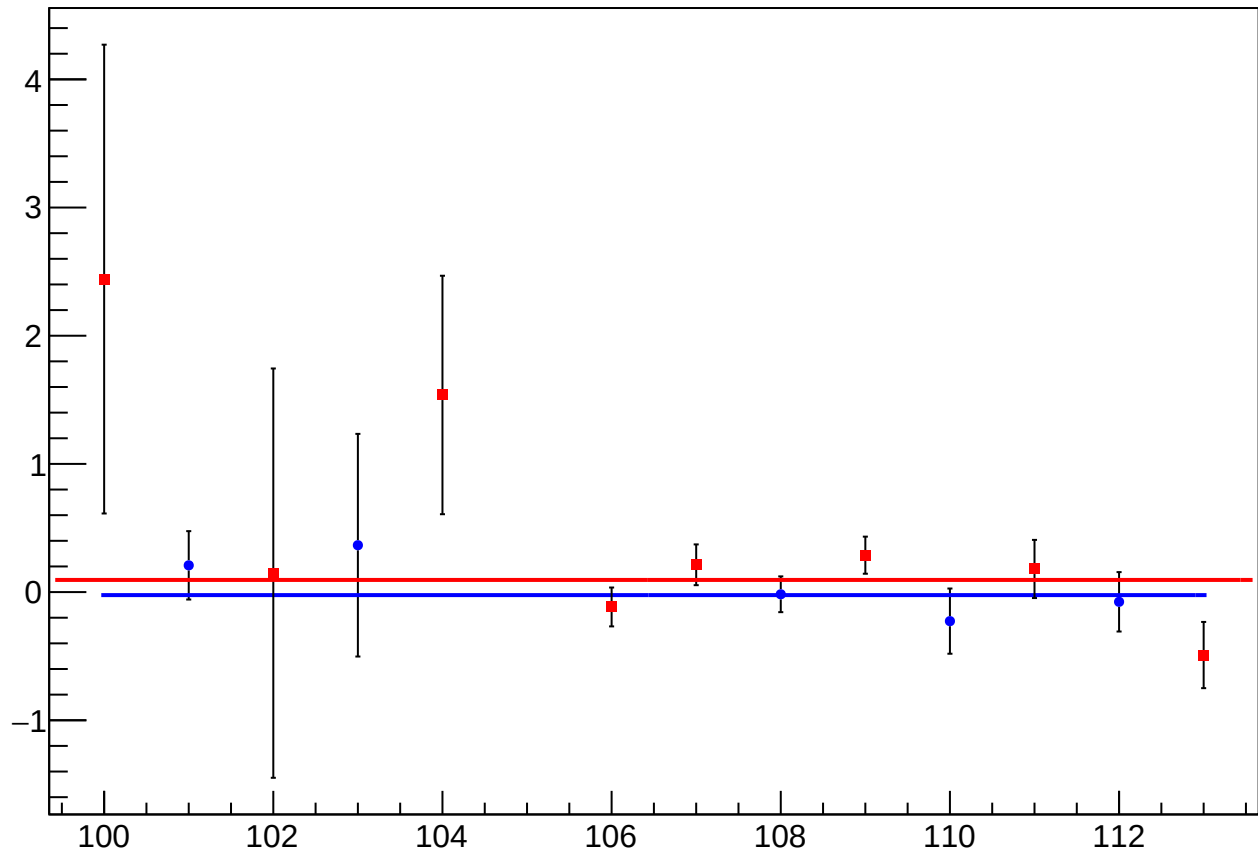
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 116.616 $\pm$ 0.043  $\chi^2$ /NDF: 3140227.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.024 $\pm$ 0.100  $\chi^2$ /NDF: 1.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.095 $\pm$ 0.077  $\chi^2$ /NDF: 13.6/7

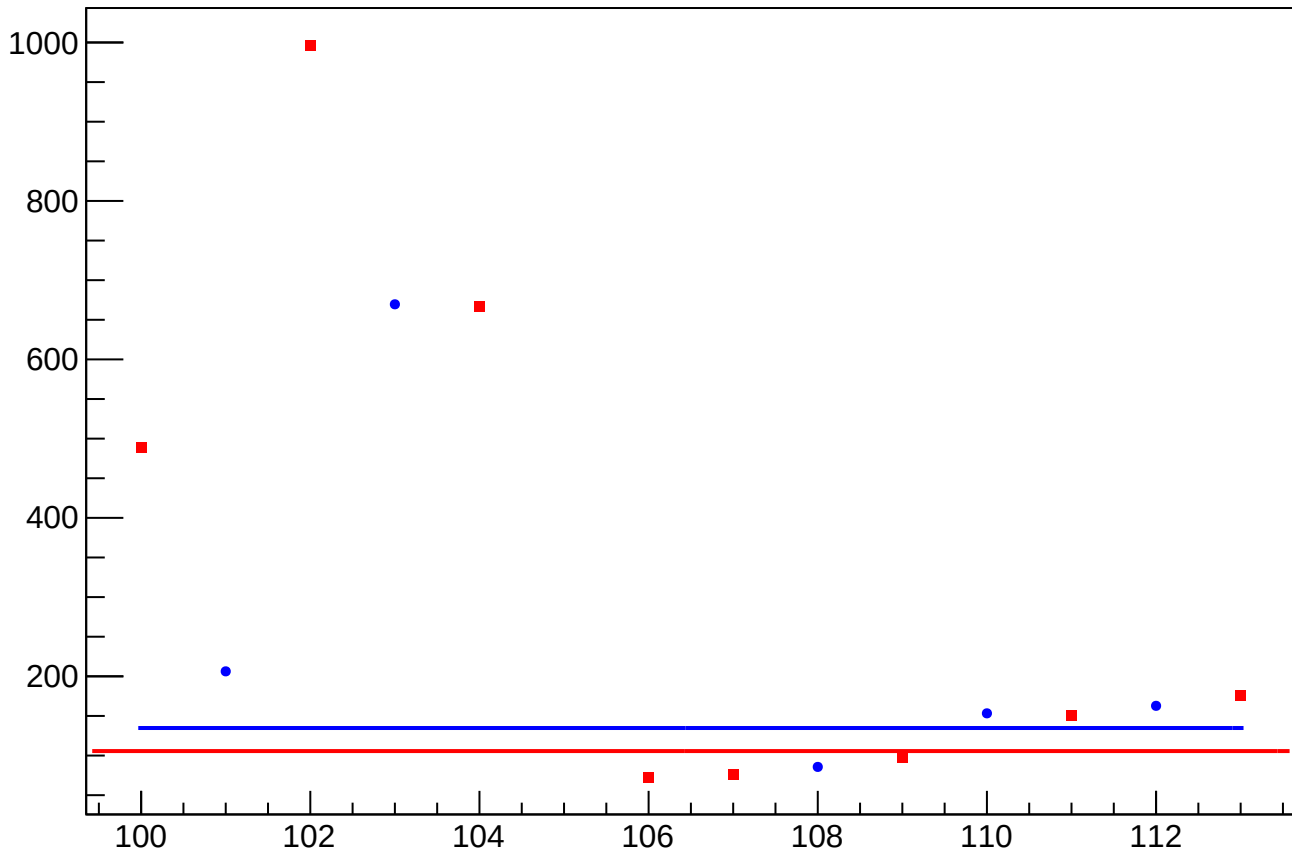
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.050 $\pm$ 0.061  $\chi^2$ /NDF: 16.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 134.769+/-0.070  $\chi^2/\text{NDF}$ : 1189317.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 105.663+/-0.055  $\chi^2/\text{NDF}$ : 1844384.5/7

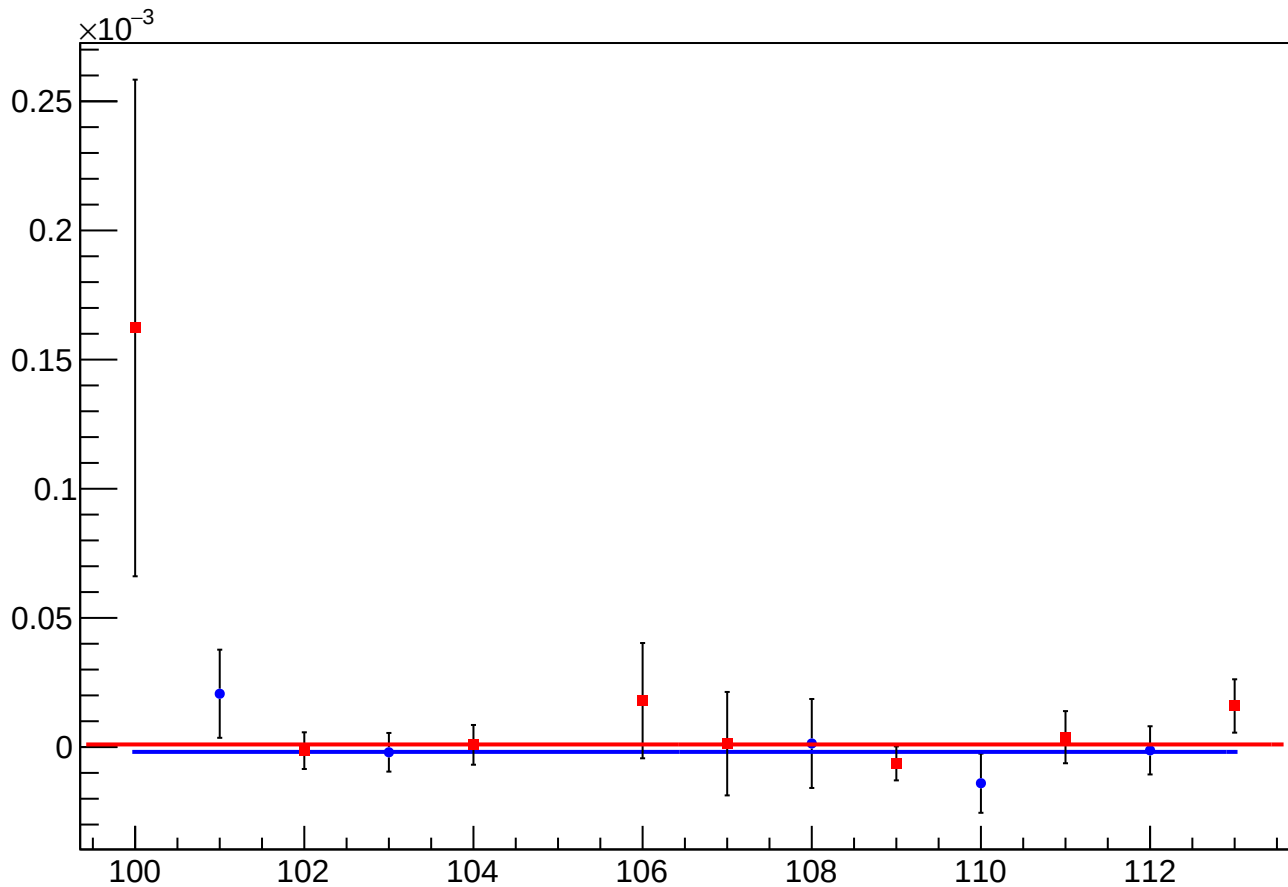
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 116.616+/-0.043  $\chi^2/\text{NDF}$ : 3140227.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.9/7

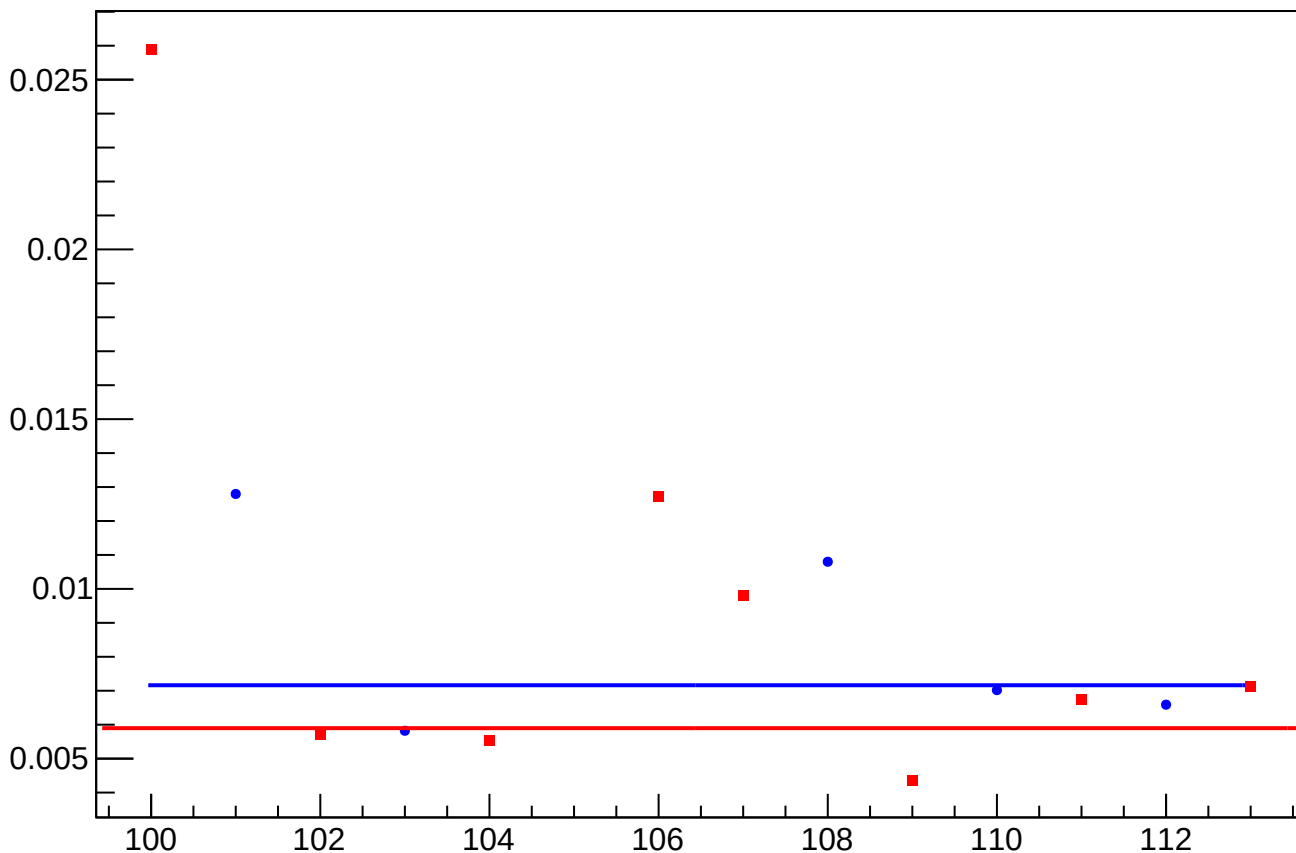
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 379460.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.006 $\pm$ 0.000  $\chi^2$ /NDF: 507788.8/7

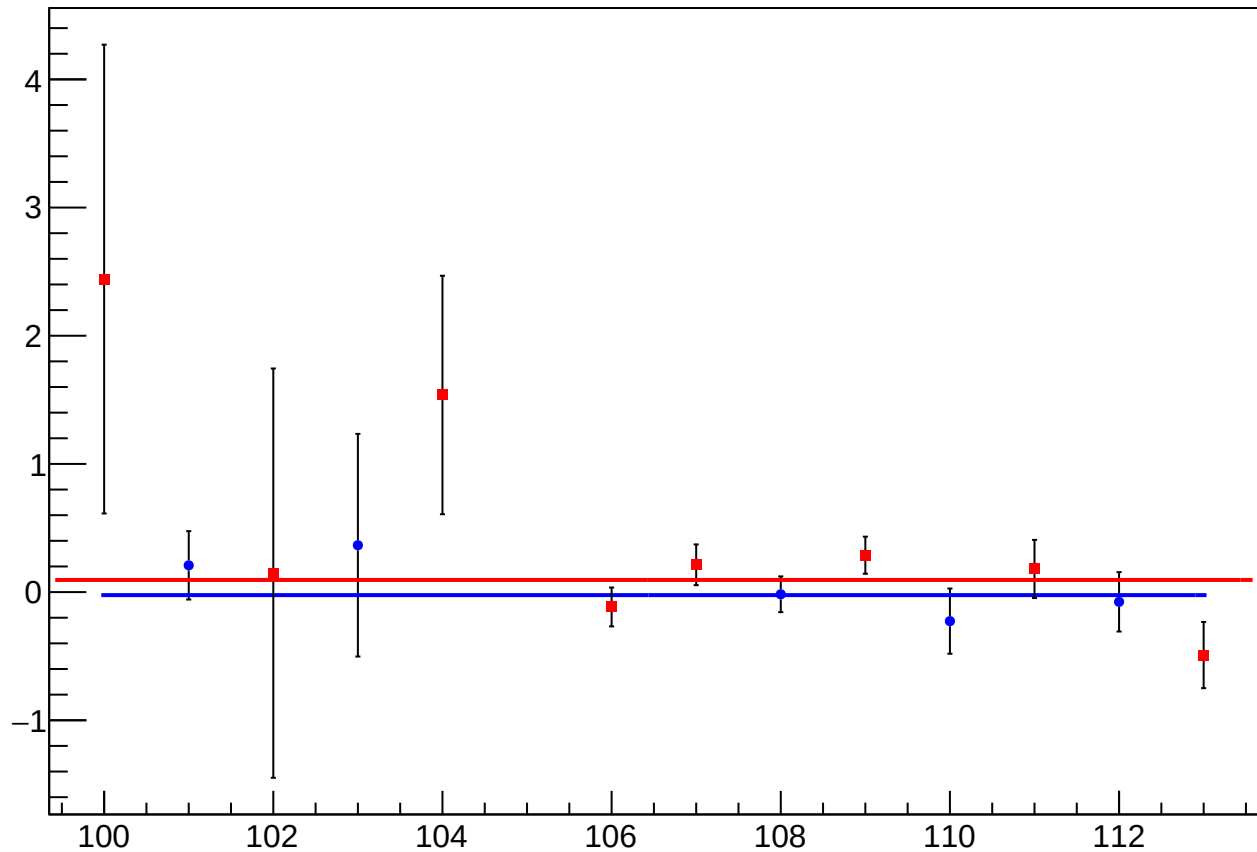
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.000  $\chi^2$ /NDF: 979116.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.024+/-0.100  $\chi^2/\text{NDF}$ : 1.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.095+/-0.077  $\chi^2/\text{NDF}$ : 13.6/7

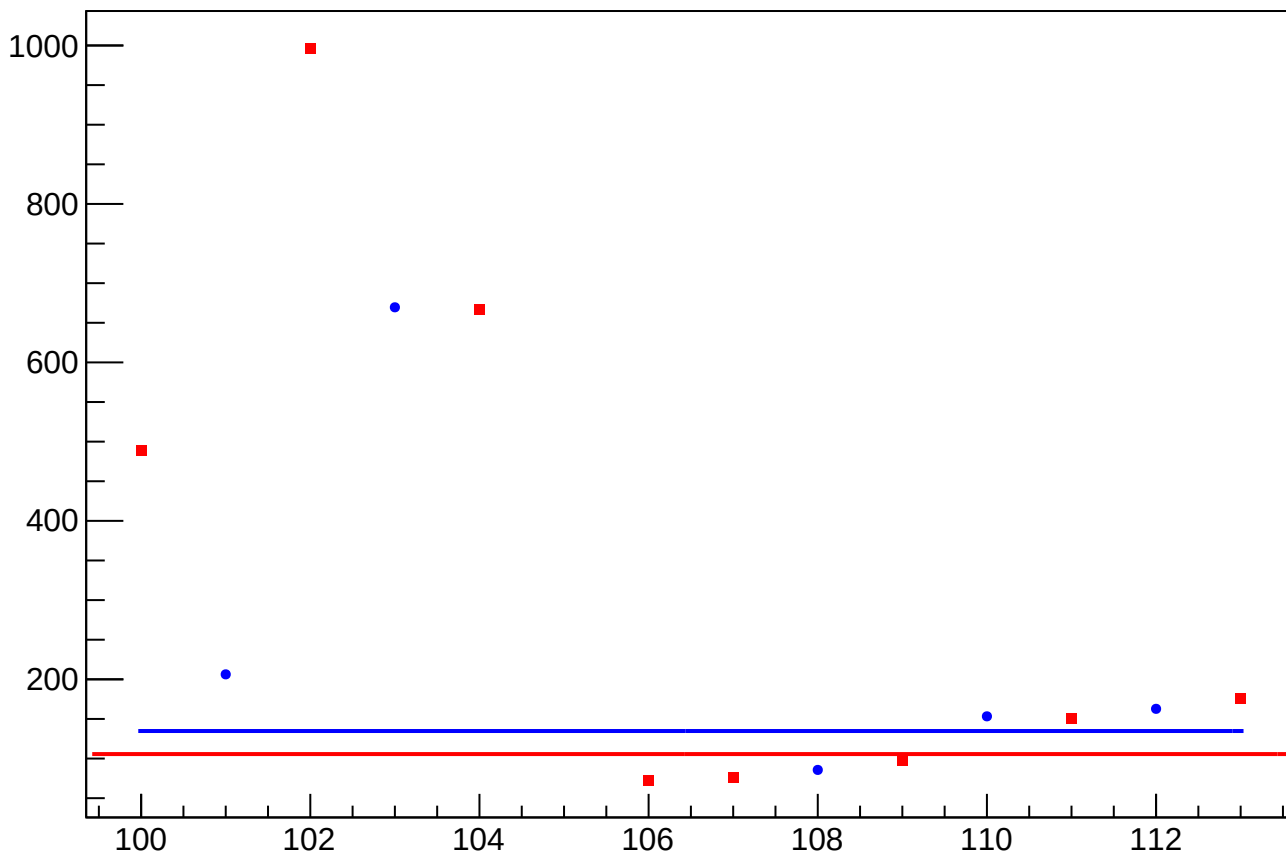
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.050+/-0.061  $\chi^2/\text{NDF}$ : 16.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 134.765+/-0.070  $\chi^2/\text{NDF}$ : 1189388.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 105.663+/-0.055  $\chi^2/\text{NDF}$ : 1844381.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

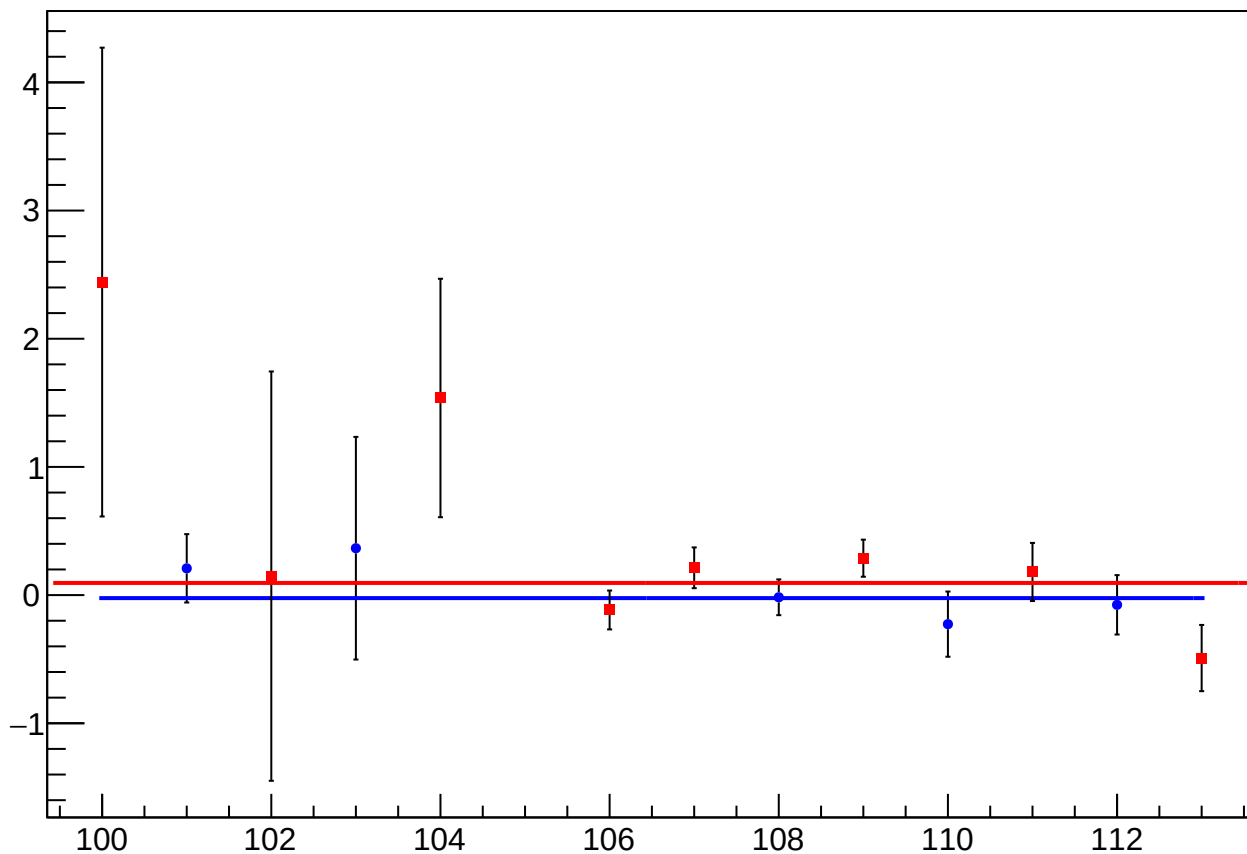
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 116.614+/-0.043  $\chi^2/\text{NDF}$ : 3140261.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.024 $\pm$ 0.100  $\chi^2$ /NDF: 1.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.095 $\pm$ 0.077  $\chi^2$ /NDF: 13.6/7

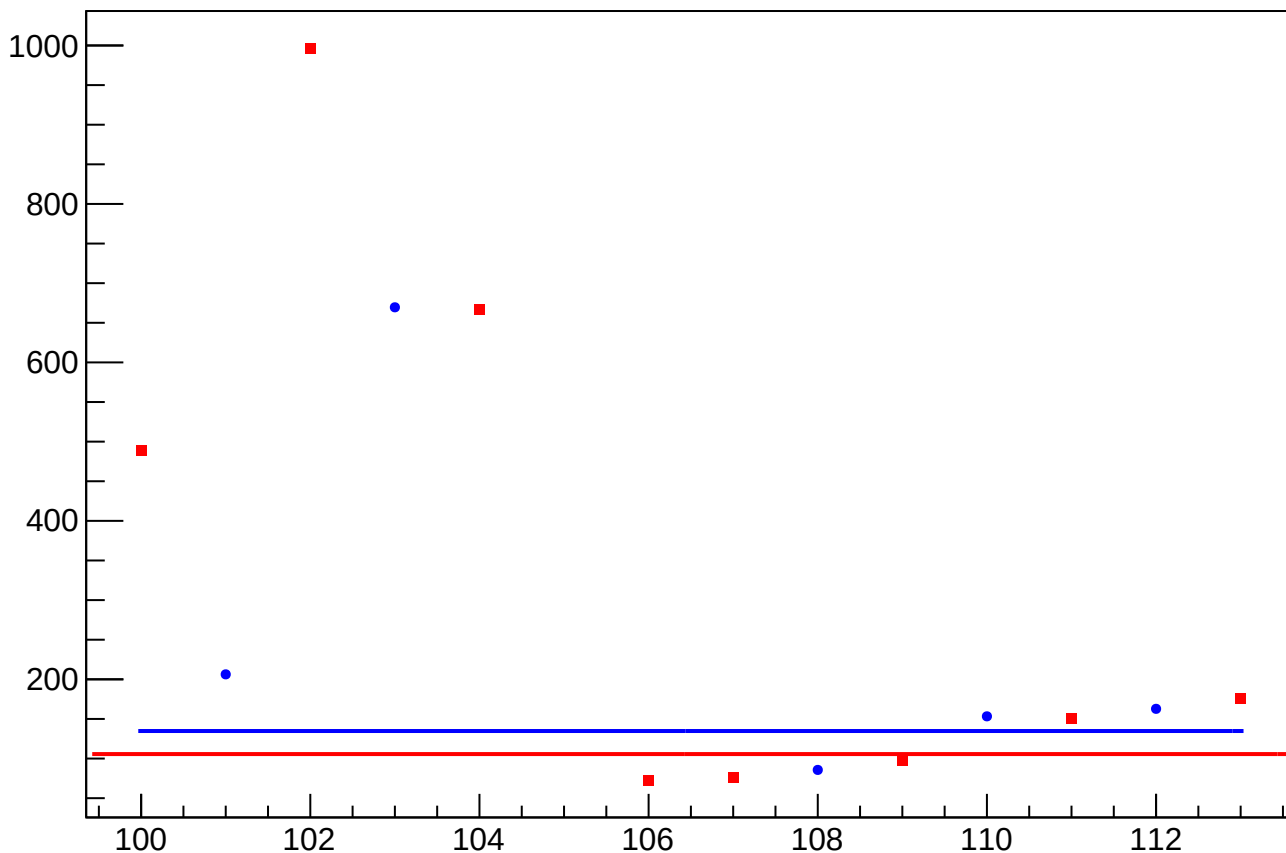
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.050 $\pm$ 0.061  $\chi^2$ /NDF: 16.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 134.765+/-0.070  $\chi^2/\text{NDF}$ : 1189388.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 105.663+/-0.055  $\chi^2/\text{NDF}$ : 1844381.3/7

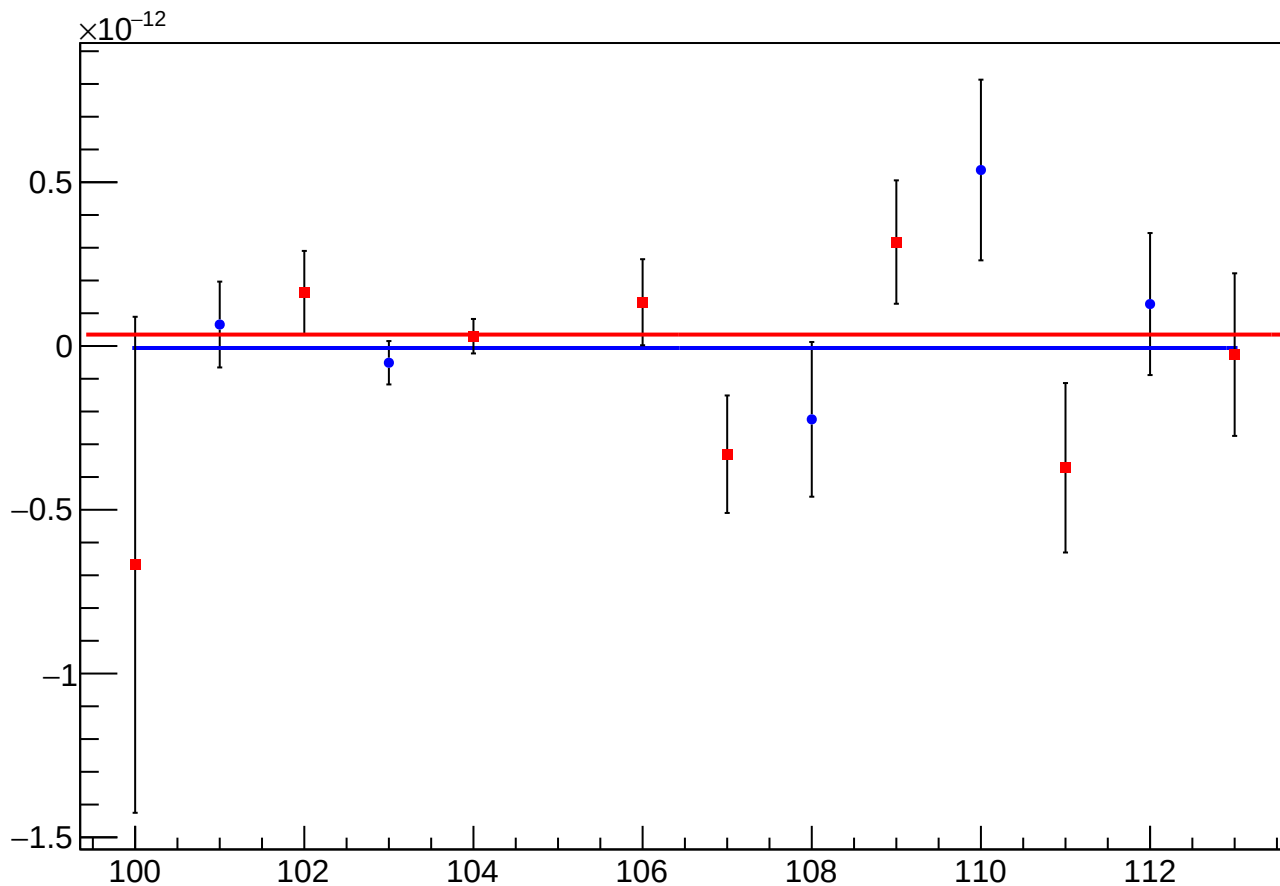
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 116.614+/-0.043  $\chi^2/\text{NDF}$ : 3140261.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 5.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 11.4/7

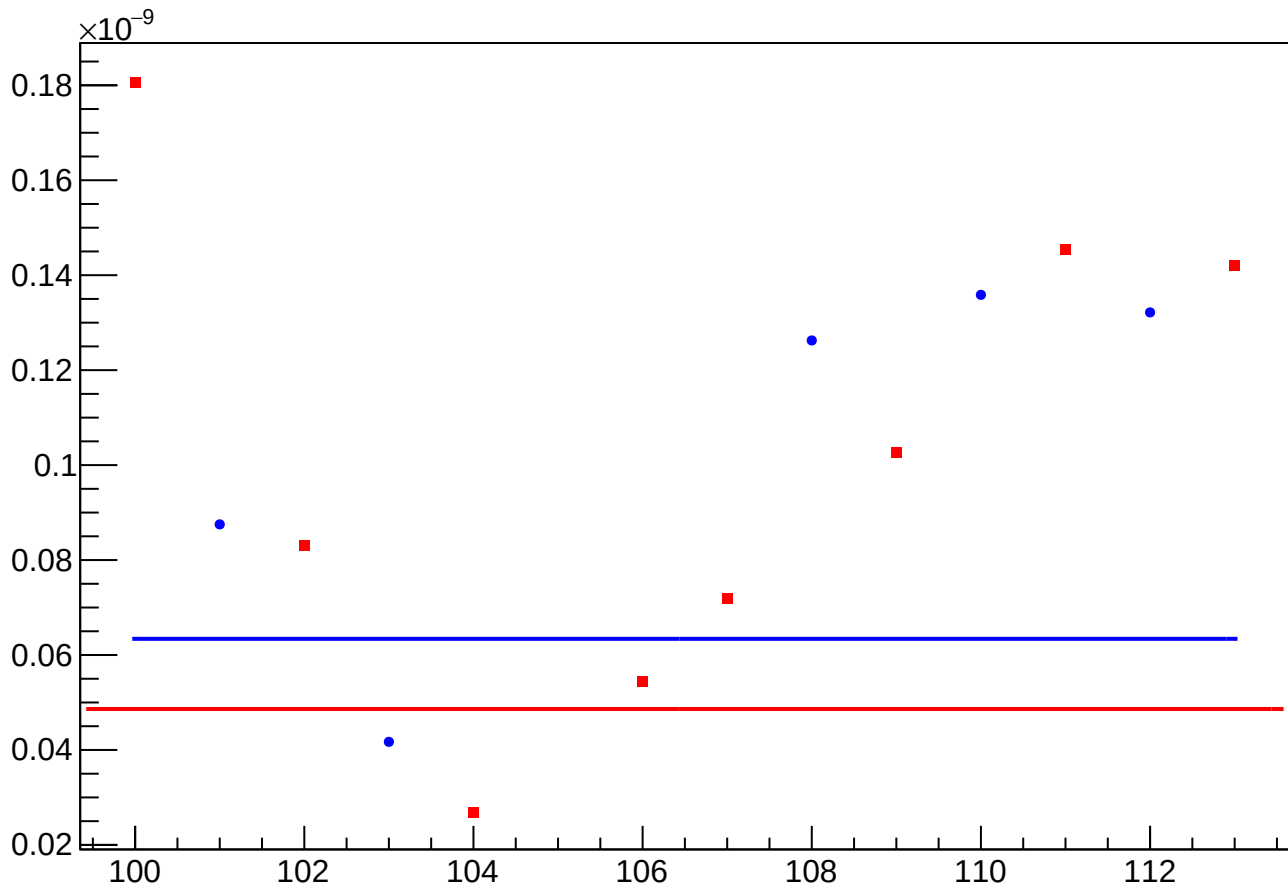
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 17.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 763136.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1315580.0/7

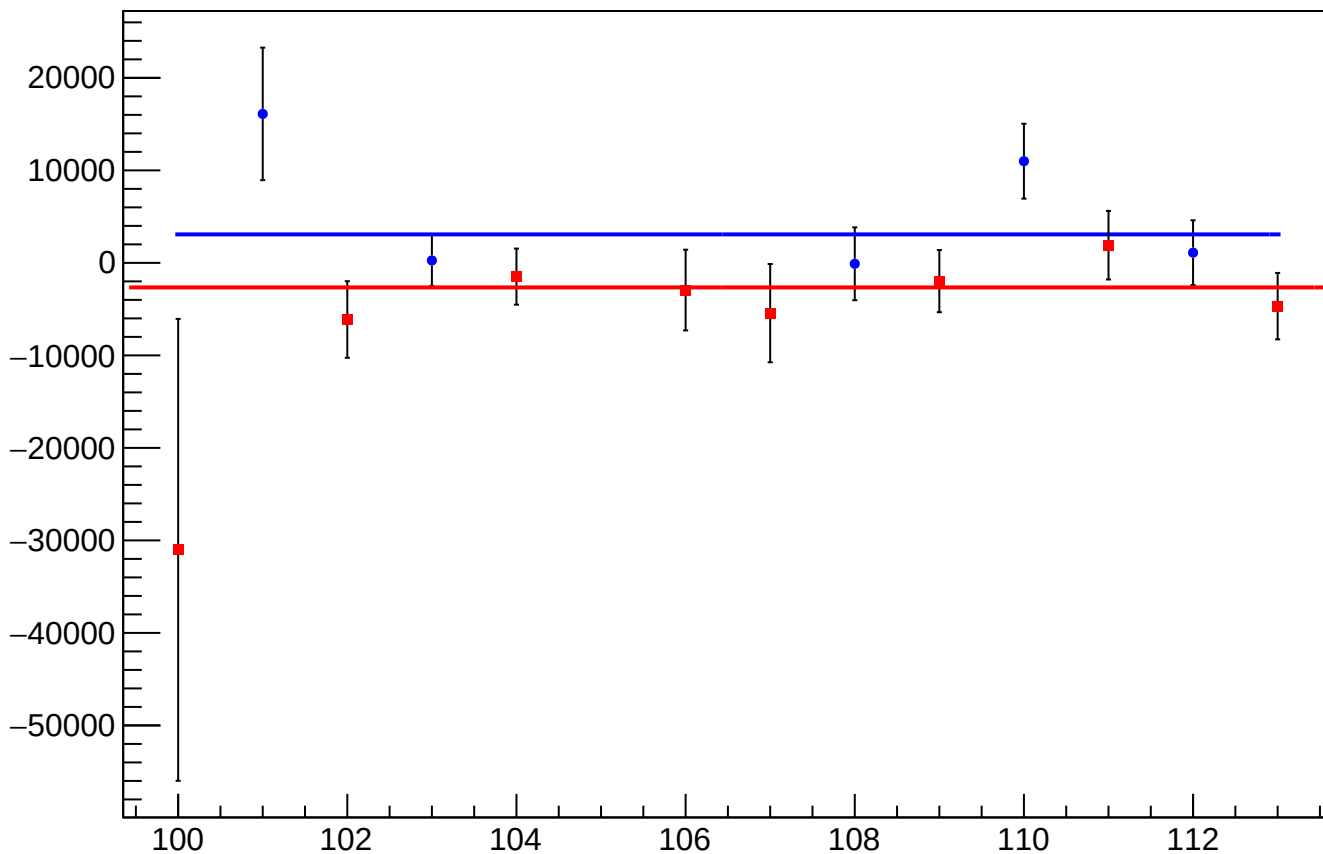
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2171591.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug



Right In: 3079.605+/-1670.077  $\chi^2/\text{NDF}$ : 9.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2651.587+/-1420.424  $\chi^2/\text{NDF}$ : 4.3/7

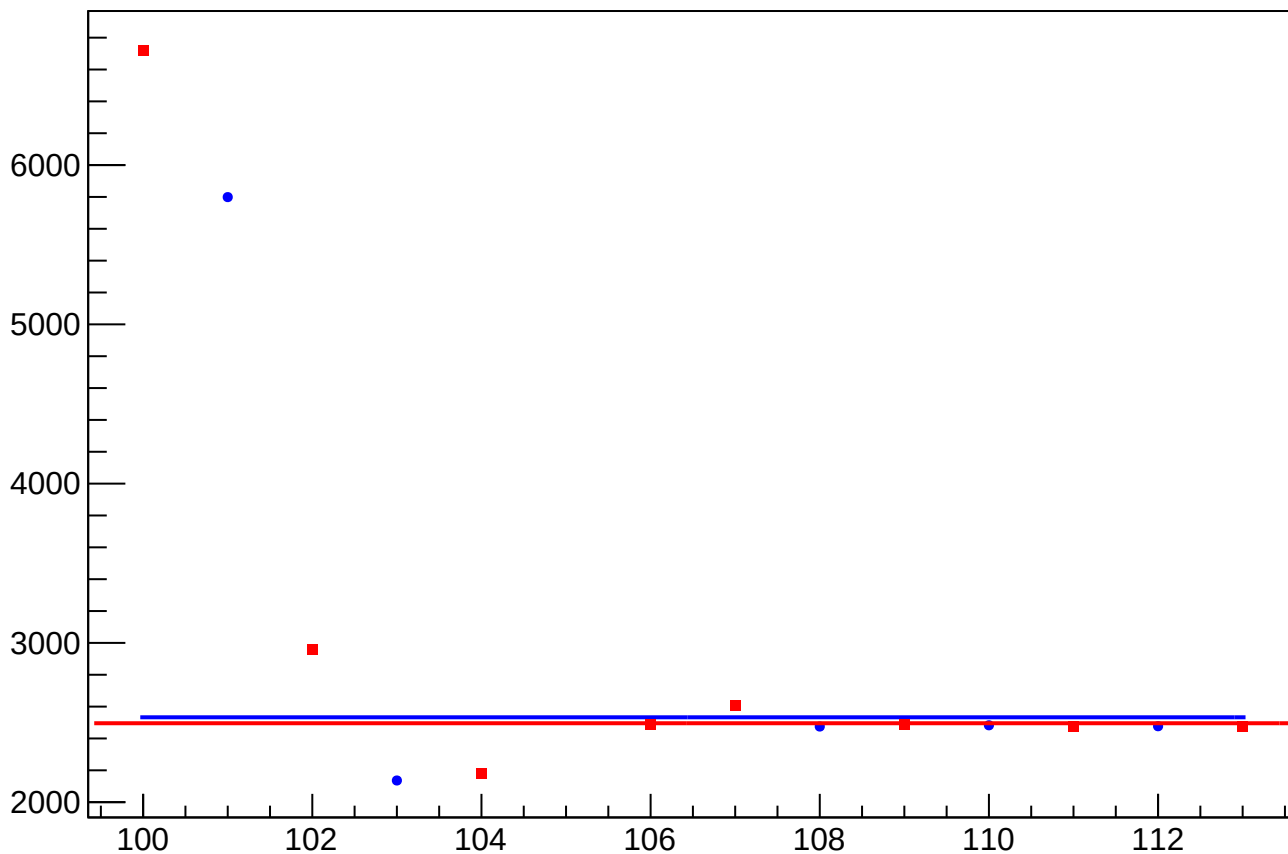
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -245.961+/-1082.002  $\chi^2/\text{NDF}$ : 20.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2532.898 $\pm$ 1.181  $\chi^2$ /NDF: 458784.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2495.572 $\pm$ 1.004  $\chi^2$ /NDF: 104817.4/7

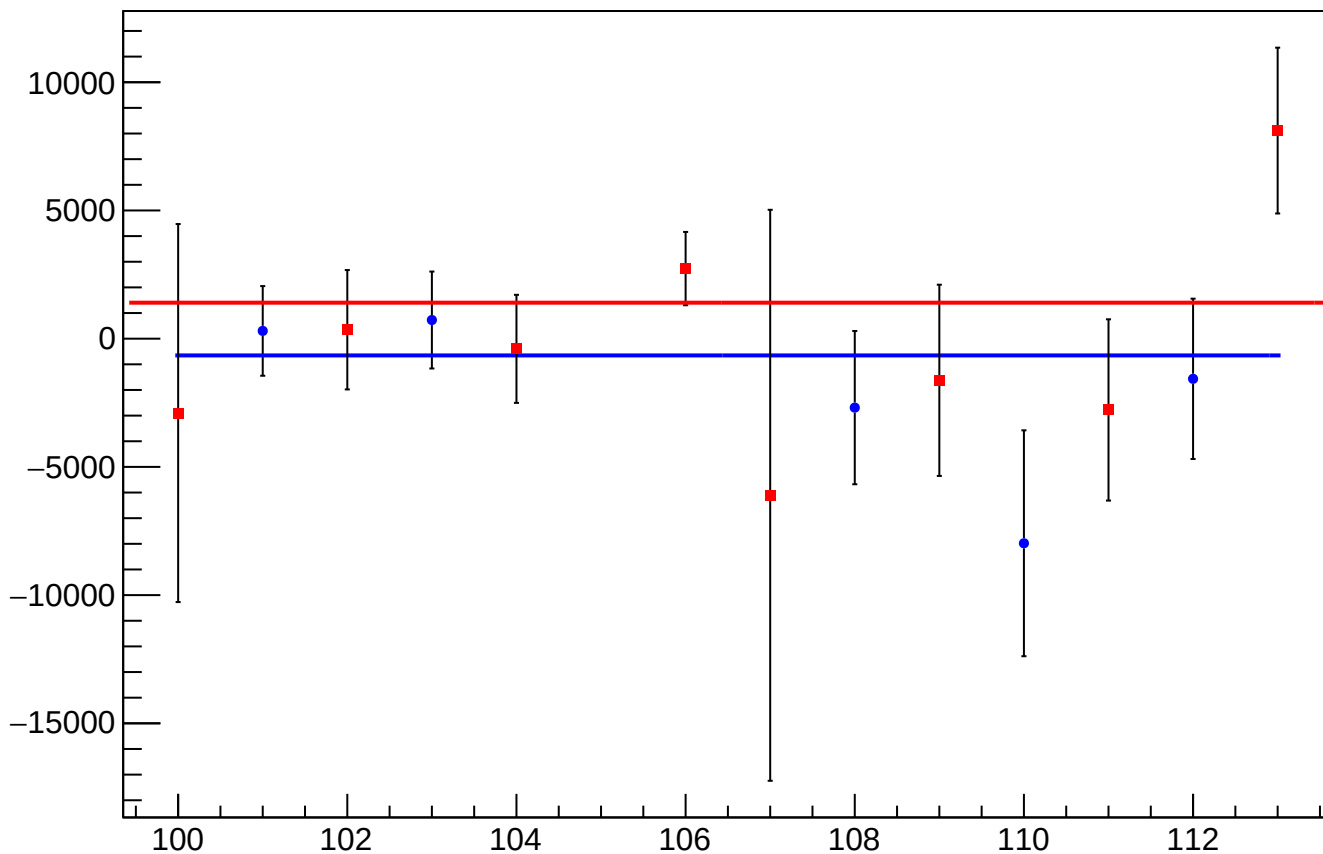
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2511.239 $\pm$ 0.765  $\chi^2$ /NDF: 564181.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_reg\_correction\_mean vs Slug



Right In: -652.853+/-1070.221  $\chi^2/\text{NDF}$ : 4.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1403.785+/-923.198  $\chi^2/\text{NDF}$ : 9.0/7

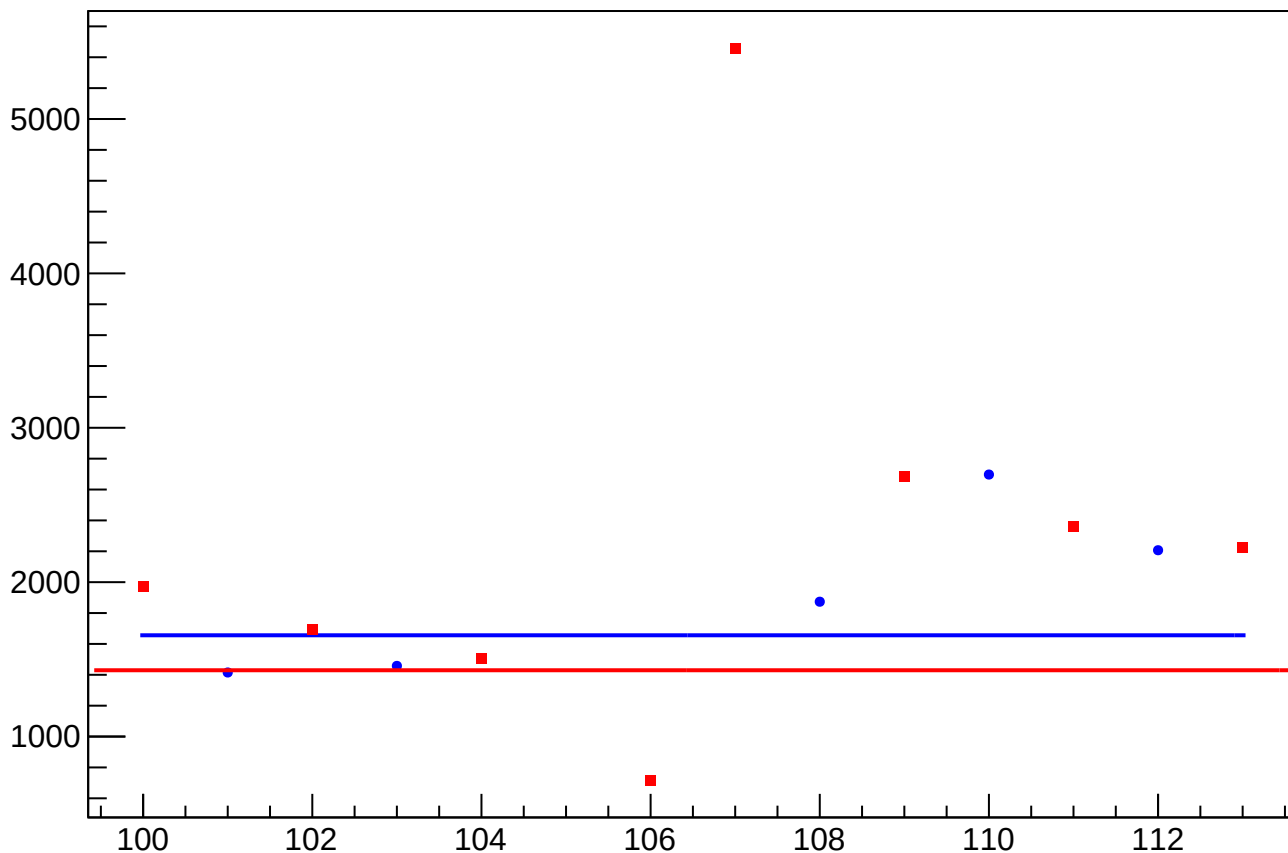
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 526.331+/-699.048  $\chi^2/\text{NDF}$ : 15.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_reg\_correction\_rms vs Slug



Right In: 1655.975+/-0.757  $\chi^2/\text{NDF}$ : 244466.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1429.447+/-0.653  $\chi^2/\text{NDF}$ : 1289067.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

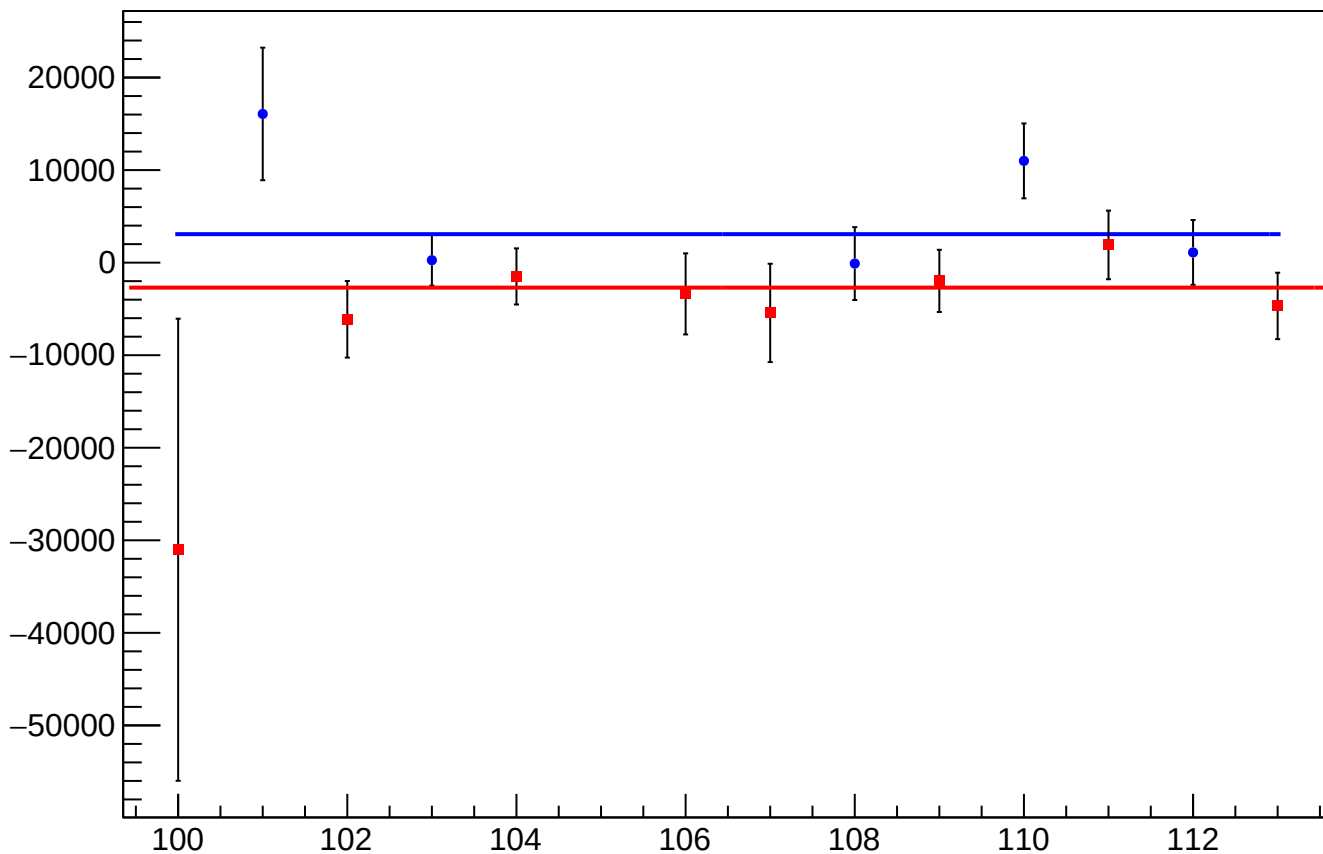
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1526.094+/-0.494  $\chi^2/\text{NDF}$ : 1584909.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



cor\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug



Right In: 3077.525+/-1670.078  $\chi^2/\text{NDF}$ : 9.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2698.898+/-1421.076  $\chi^2/\text{NDF}$ : 4.3/7

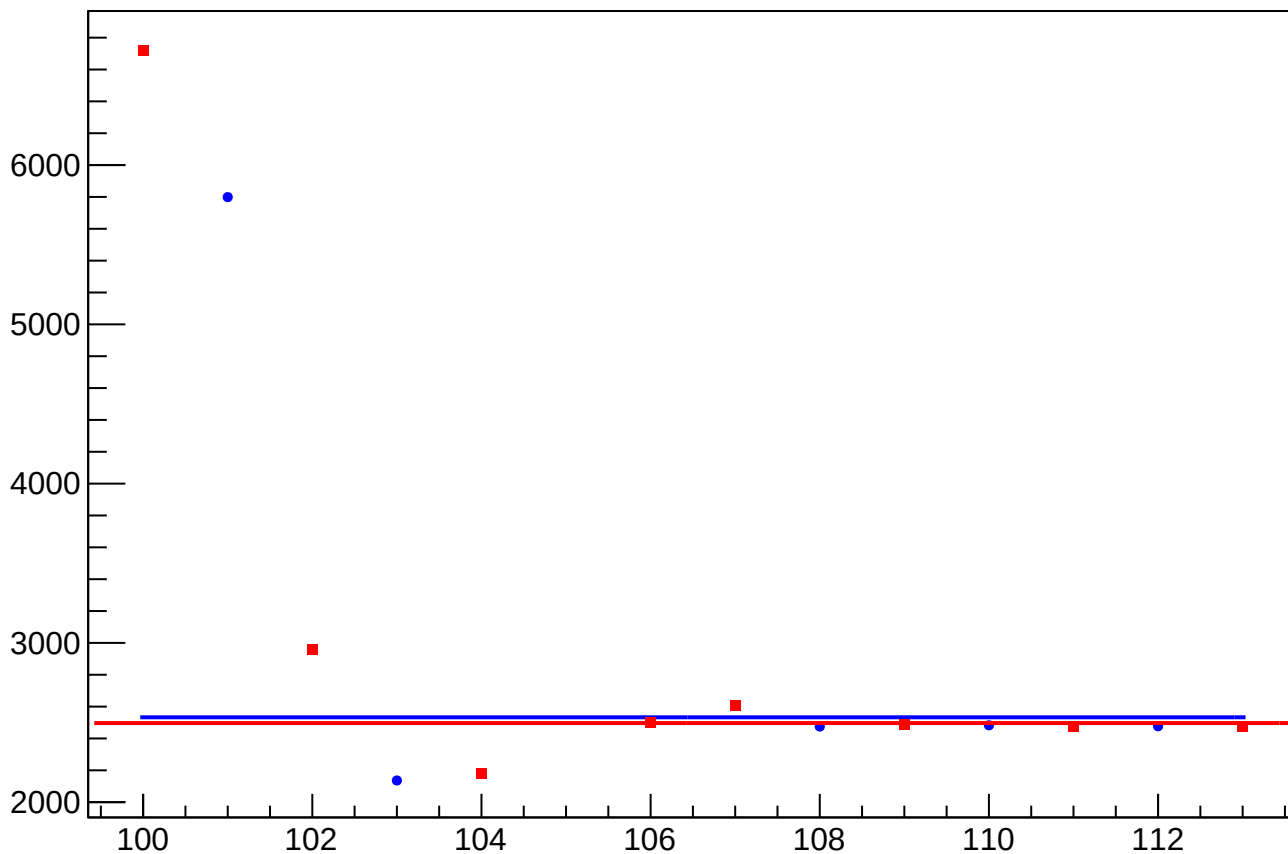
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -272.996+/-1082.291  $\chi^2/\text{NDF}$ : 20.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2532.898+/-1.181  $\chi^2/\text{NDF}$ : 458785.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2496.706+/-1.005  $\chi^2/\text{NDF}$ : 104815.9/7

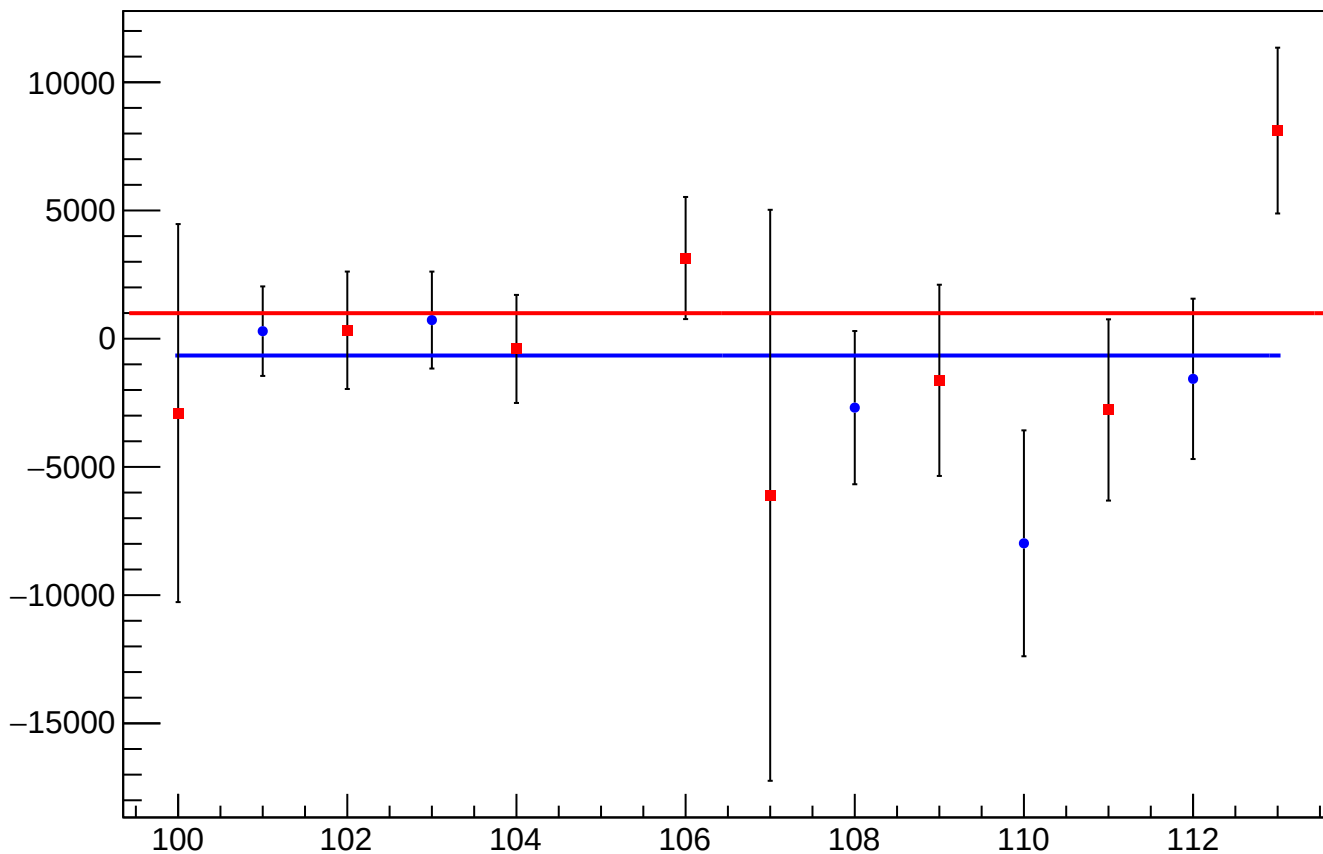
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2511.906+/-0.765  $\chi^2/\text{NDF}$ : 564145.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_cor\_correction\_mean vs Slug



Right In: -655.555+/-1069.661  $\chi^2/\text{NDF}$ : 4.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 995.131+/-1074.248  $\chi^2/\text{NDF}$ : 8.5/7

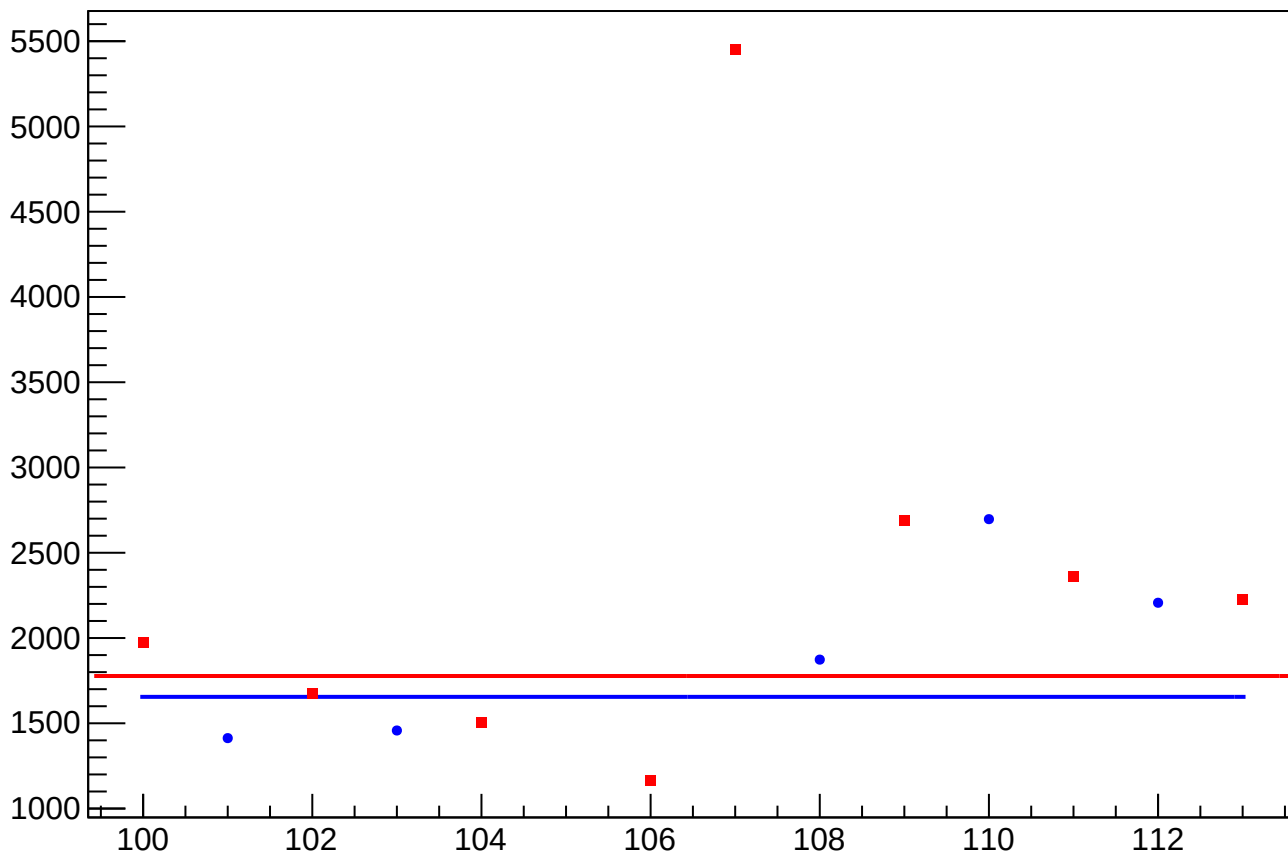
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 166.257+/-757.981  $\chi^2/\text{NDF}$ : 13.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_cor\_correction\_rms vs Slug



Right In: 1655.013+/-0.756  $\chi^2/\text{NDF}$ : 245174.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1777.302+/-0.760  $\chi^2/\text{NDF}$ : 601216.2/7

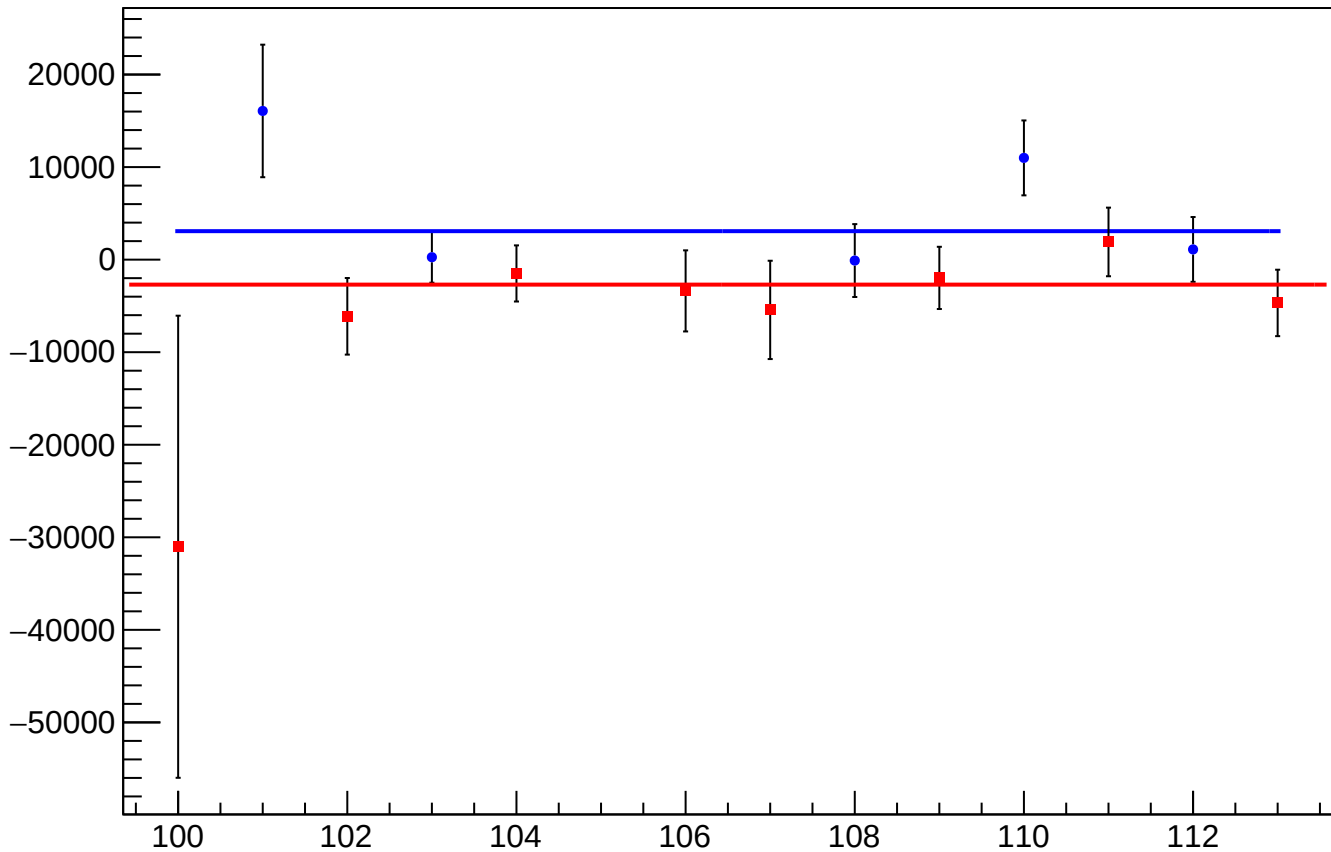
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1715.896+/-0.536  $\chi^2/\text{NDF}$ : 859404.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug



Right In: 3077.525+/-1670.078  $\chi^2/\text{NDF}$ : 9.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2698.898+/-1421.076  $\chi^2/\text{NDF}$ : 4.3/7

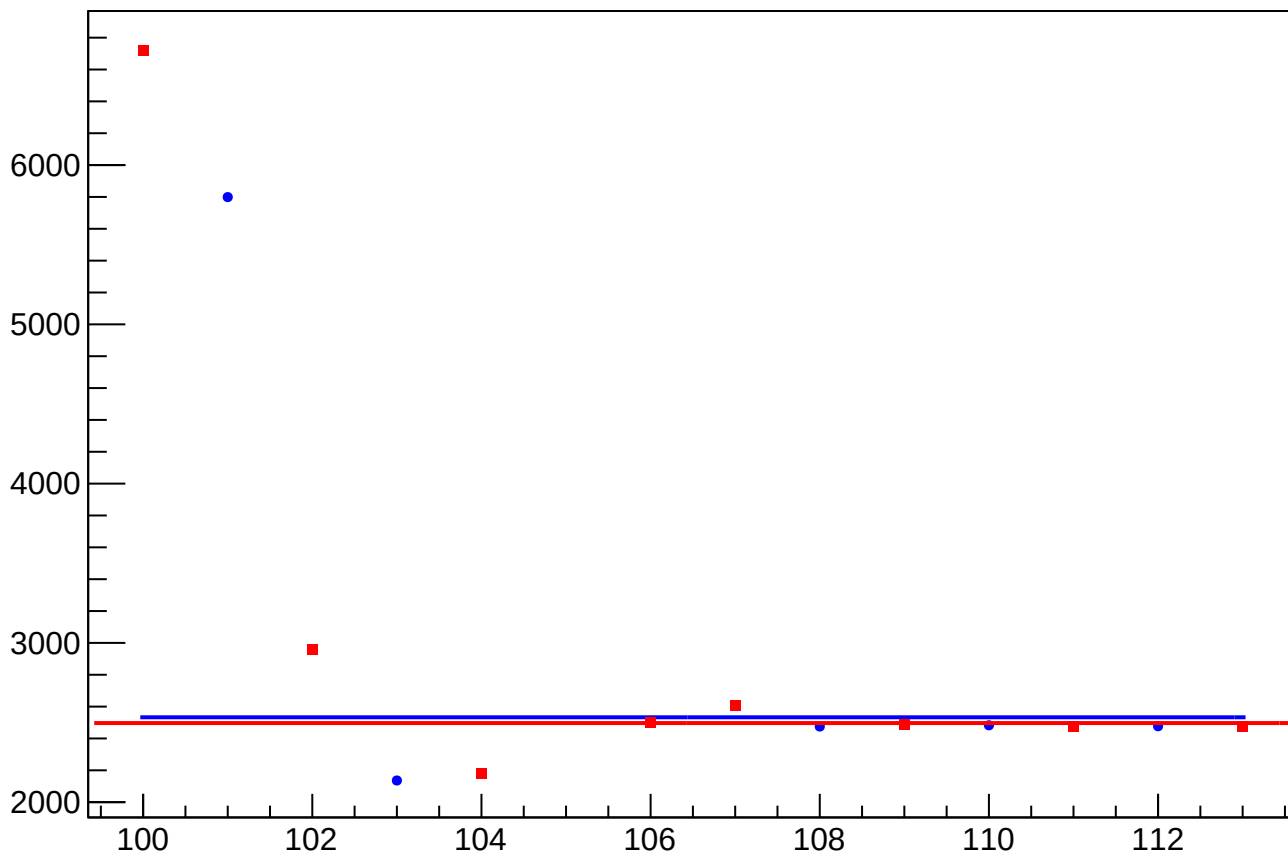
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -272.996+/-1082.291  $\chi^2/\text{NDF}$ : 20.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2532.898 $\pm$ 1.181  $\chi^2$ /NDF: 458785.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2496.706 $\pm$ 1.005  $\chi^2$ /NDF: 104815.9/7

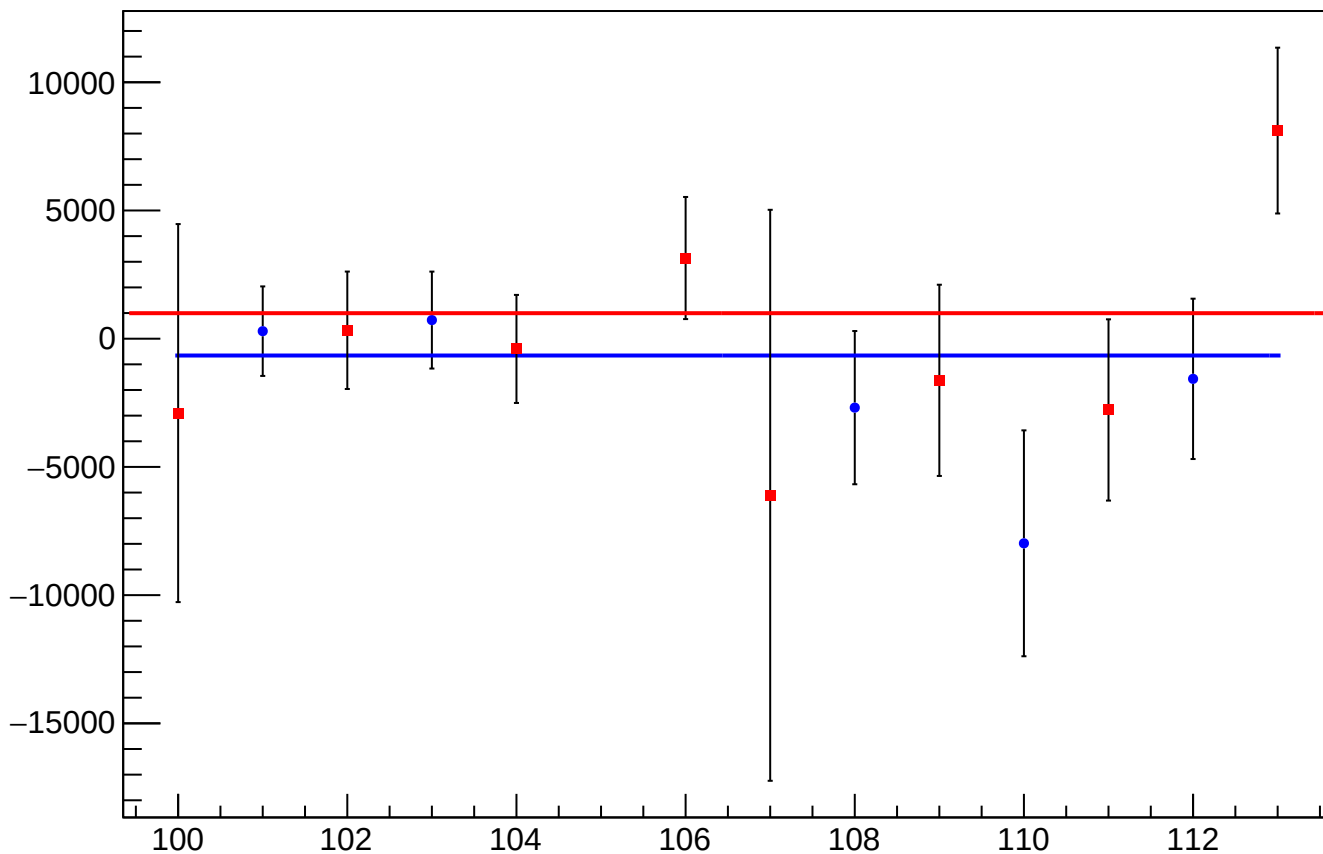
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2511.906 $\pm$ 0.765  $\chi^2$ /NDF: 564145.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -655.555+/-1069.661  $\chi^2/\text{NDF}$ : 4.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 995.131+/-1074.248  $\chi^2/\text{NDF}$ : 8.5/7

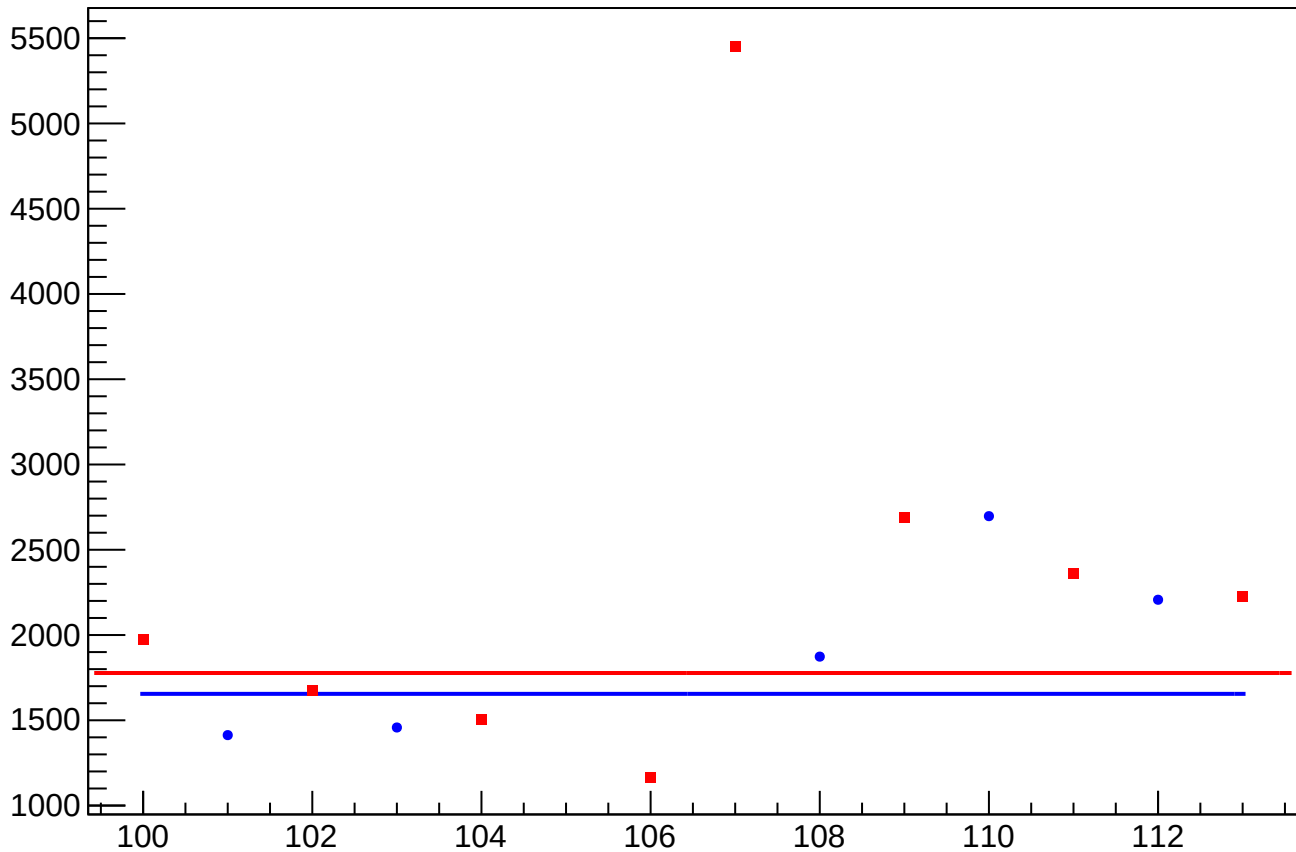
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 166.257+/-757.981  $\chi^2/\text{NDF}$ : 13.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1655.013+/-0.756  $\chi^2/\text{NDF}$ : 245174.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1777.302+/-0.760  $\chi^2/\text{NDF}$ : 601216.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

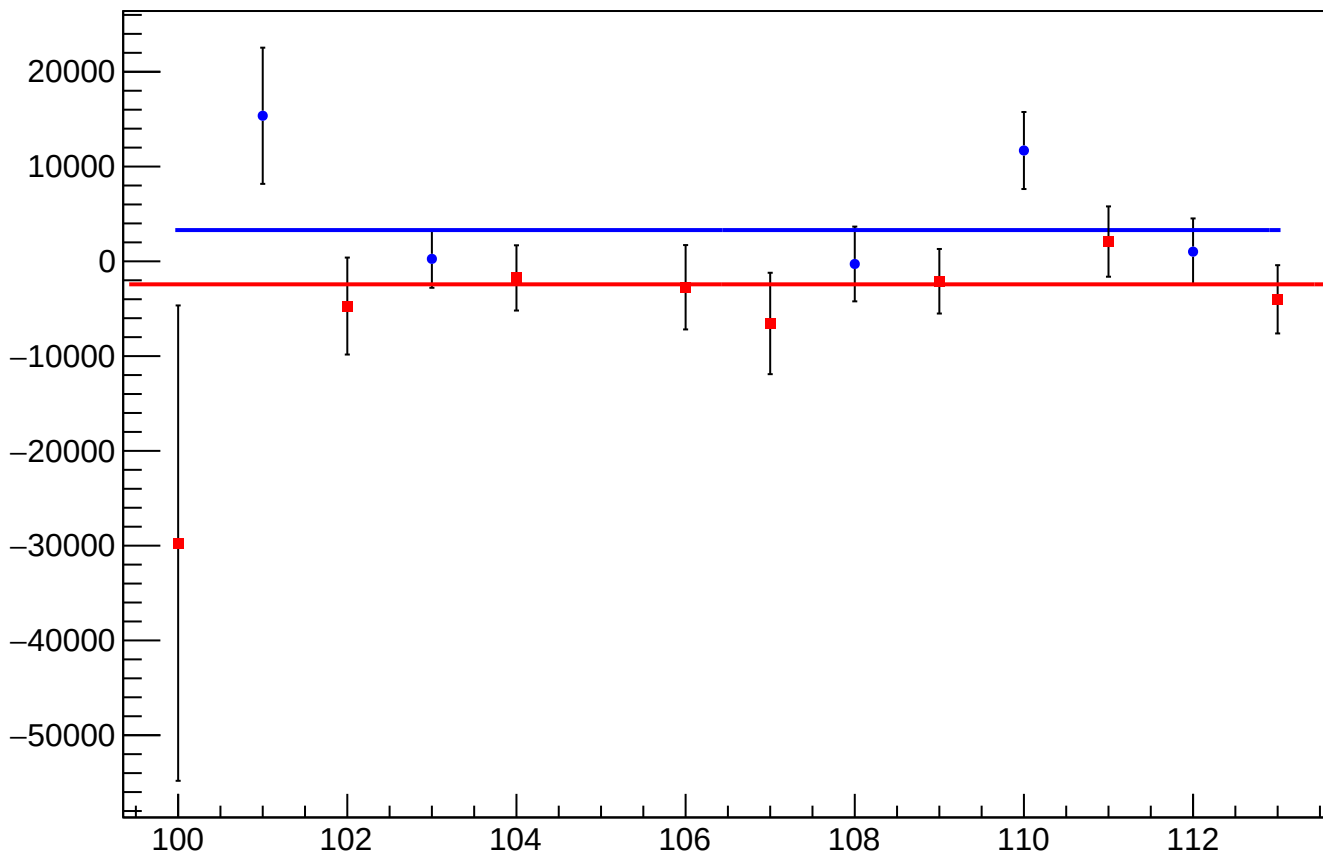
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1715.896+/-0.536  $\chi^2/\text{NDF}$ : 859404.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug



Right In: 3298.000+/-1732.983  $\chi^2/\text{NDF}$ : 9.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2426.460+/-1498.088  $\chi^2/\text{NDF}$ : 3.7/7

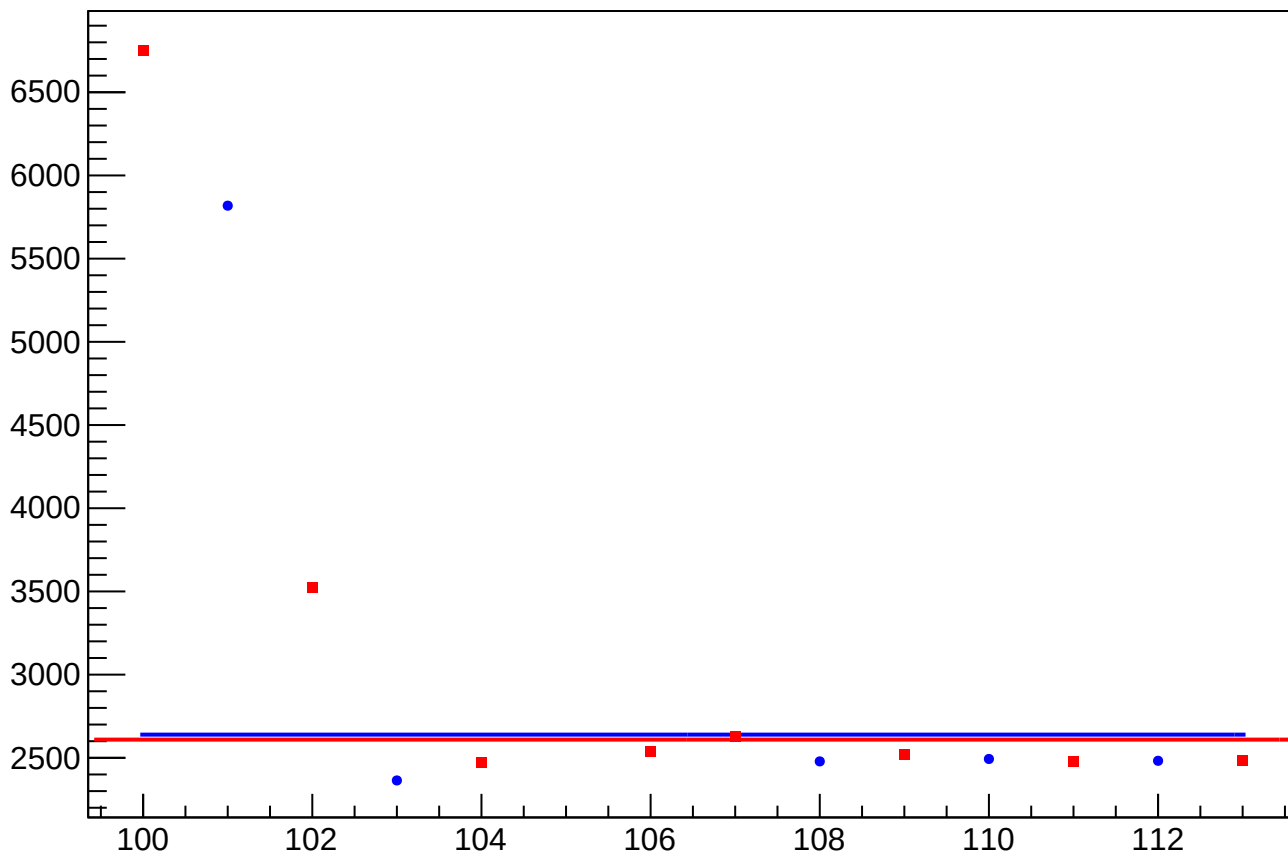
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.795+/-1133.328  $\chi^2/\text{NDF}$ : 19.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2639.473+/-1.225  $\chi^2/\text{NDF}$ : 417669.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

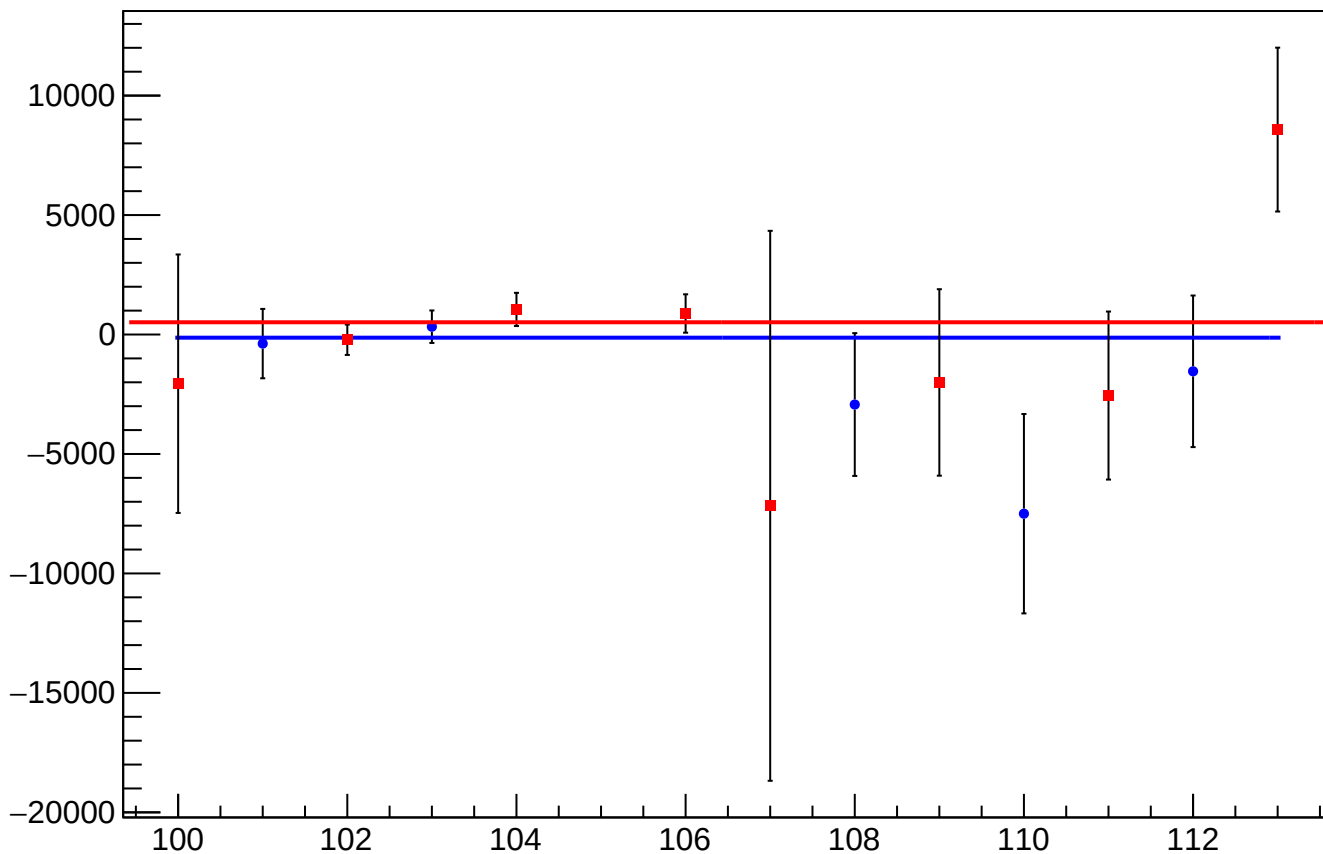
Right Out: 2609.468+/-1.059  $\chi^2/\text{NDF}$ : 127990.3/7

All: 2622.301+/-0.801  $\chi^2/\text{NDF}$ : 546003.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_correction\_mean vs Slug



Right In: -132.172+/-586.246  $\chi^2/\text{NDF}$ : 4.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 512.734+/-396.364  $\chi^2/\text{NDF}$ : 9.5/7

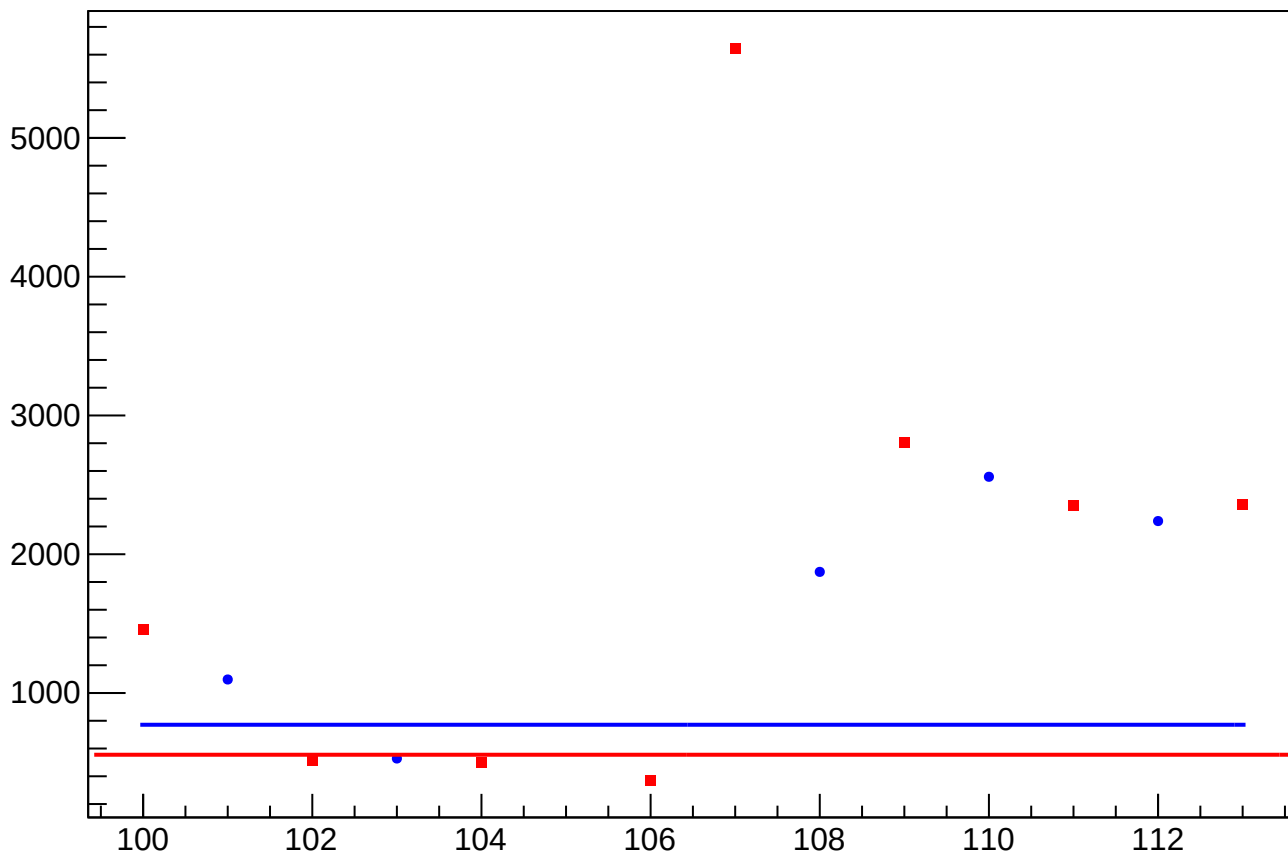
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 310.418+/-328.357  $\chi^2/\text{NDF}$ : 15.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_correction\_rms vs Slug



Right In: 771.241+/-0.415  $\chi^2/\text{NDF}$ : 1424031.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 555.144+/-0.280  $\chi^2/\text{NDF}$ : 2316440.0/7

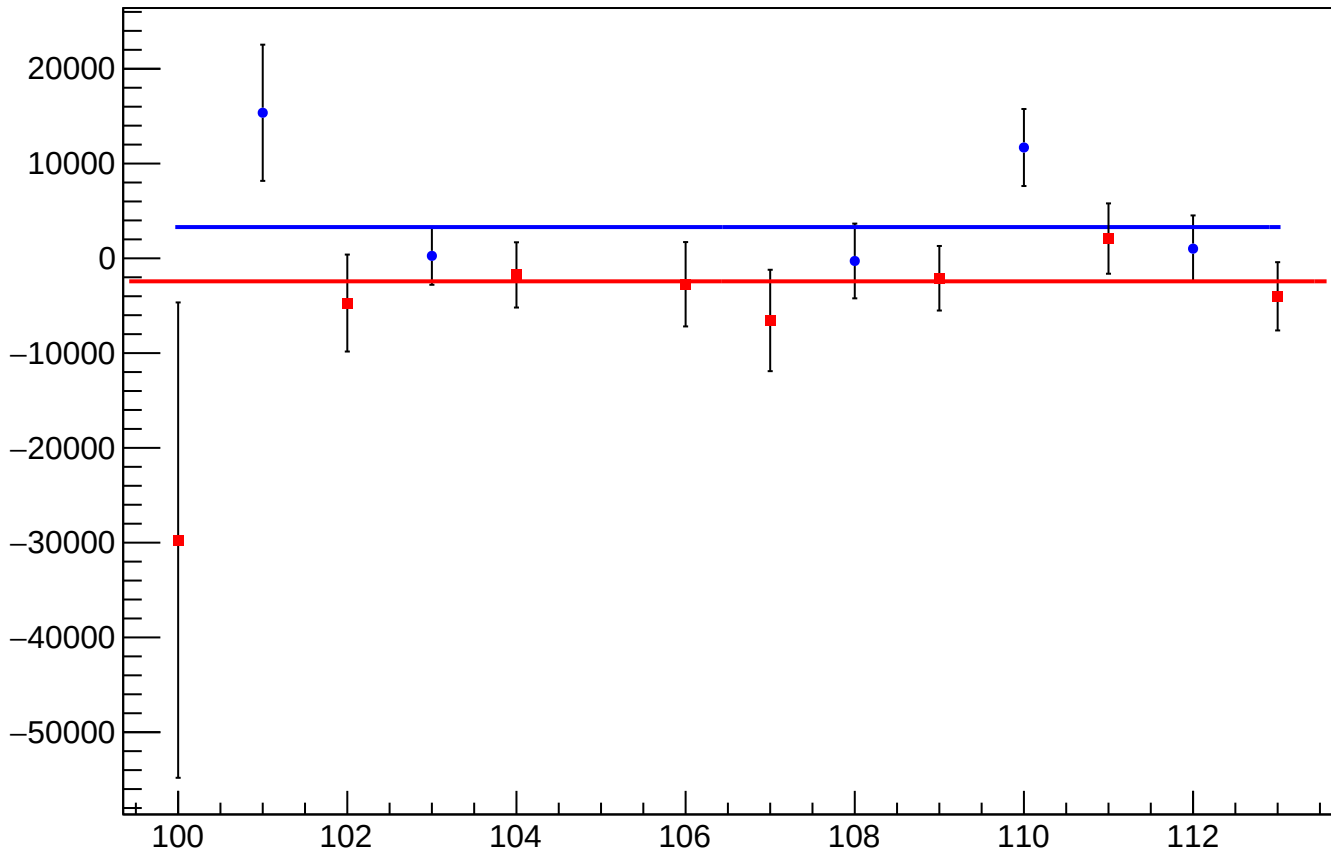
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 622.937+/-0.232  $\chi^2/\text{NDF}$ : 3926967.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug



Right In: 3297.997 $\pm$ 1732.982  $\chi^2$ /NDF: 9.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2426.455 $\pm$ 1498.087  $\chi^2$ /NDF: 3.7/7

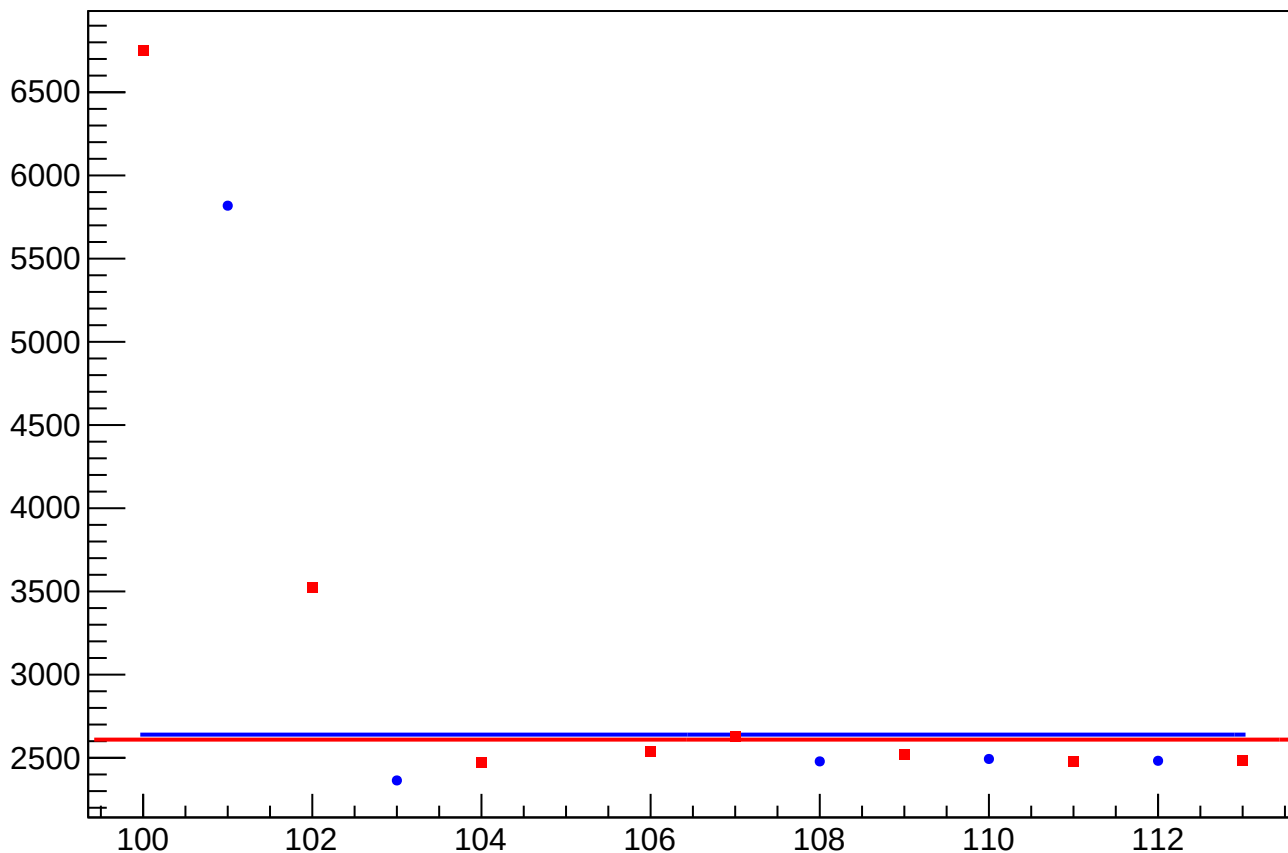
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.797 $\pm$ 1133.327  $\chi^2$ /NDF: 19.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2639.471+/-1.225  $\chi^2/\text{NDF}$ : 417670.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2609.466+/-1.059  $\chi^2/\text{NDF}$ : 127989.8/7

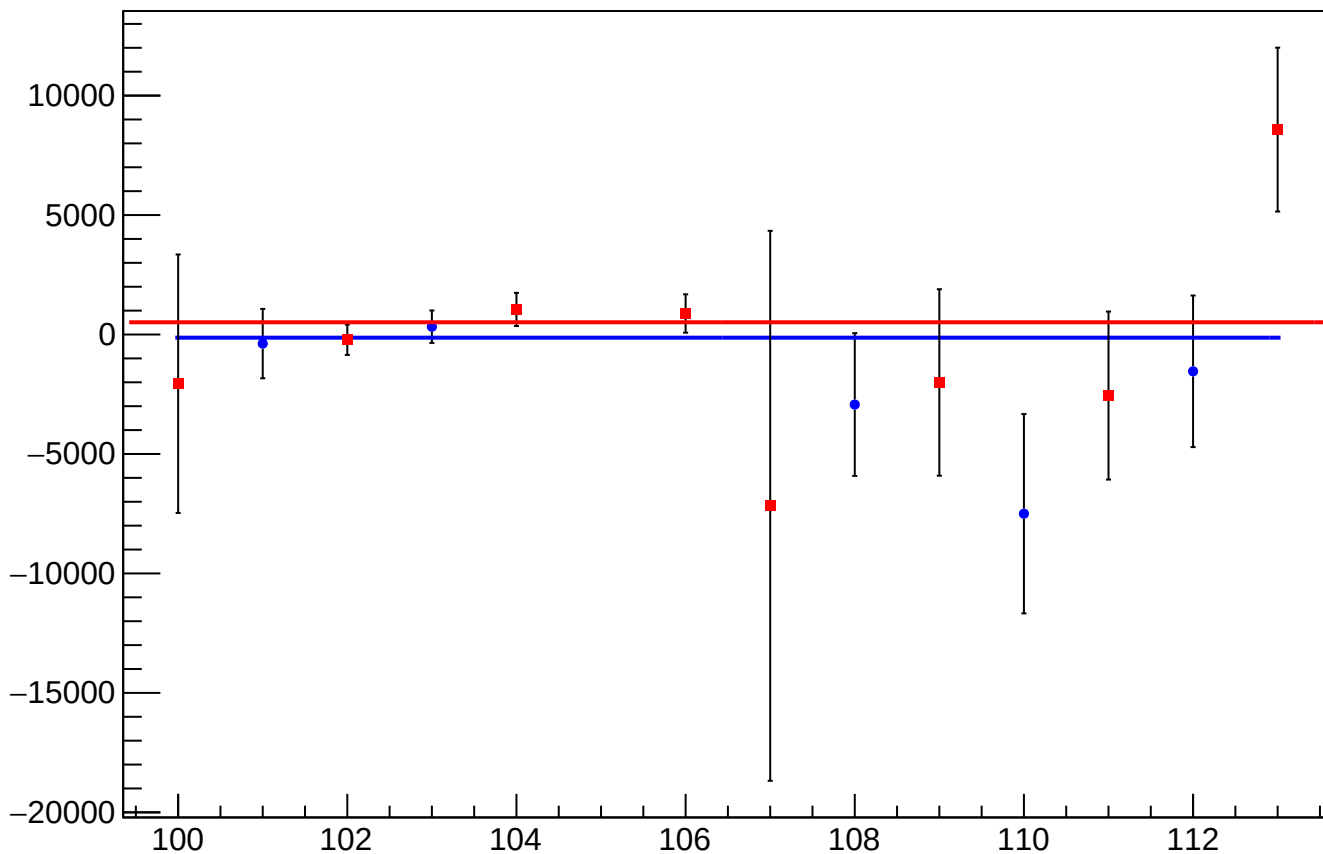
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2622.299+/-0.801  $\chi^2/\text{NDF}$ : 546003.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -132.185 $\pm$ 586.251  $\chi^2$ /NDF: 4.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 512.742 $\pm$ 396.370  $\chi^2$ /NDF: 9.5/7

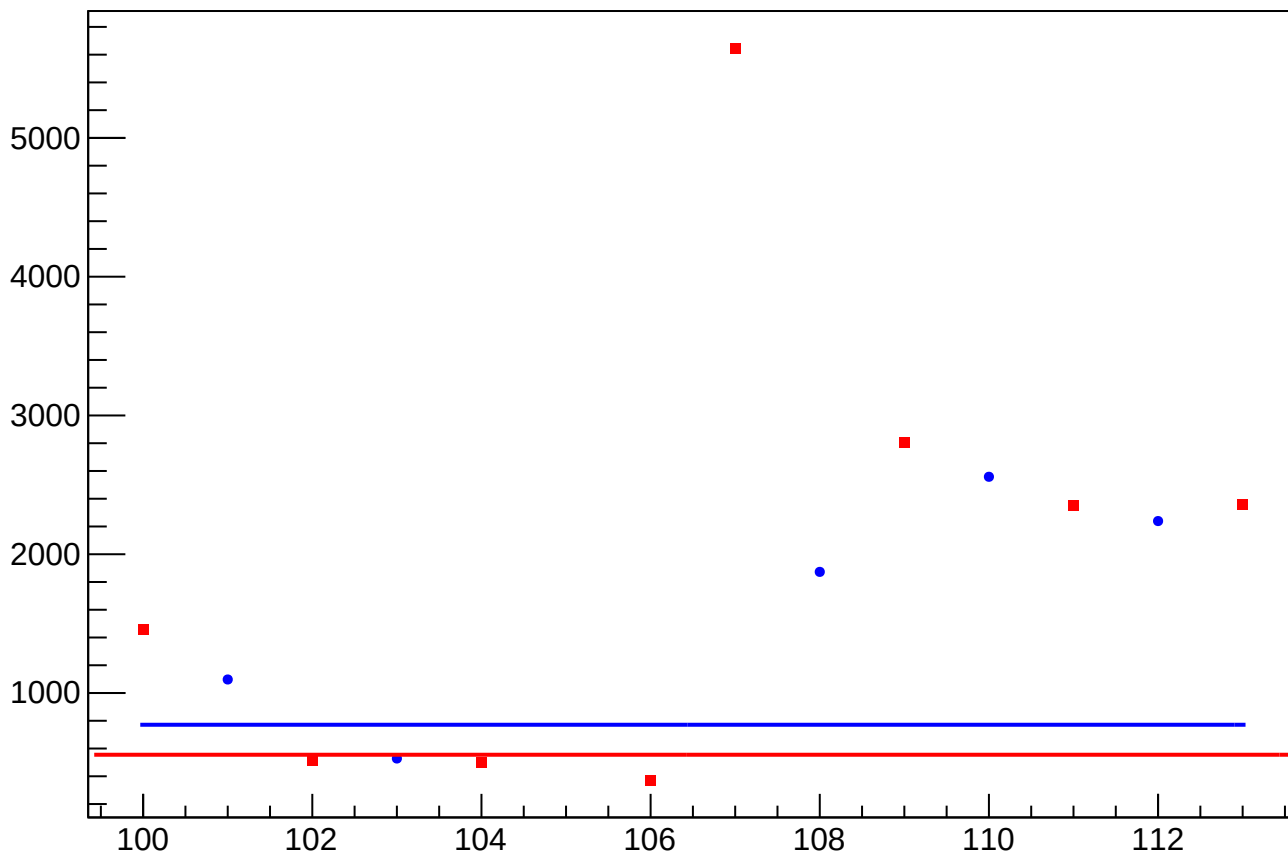
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 310.417 $\pm$ 328.362  $\chi^2$ /NDF: 15.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 771.250+/-0.415  $\chi^2/\text{NDF}$ : 1424012.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 555.156+/-0.280  $\chi^2/\text{NDF}$ : 2316407.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

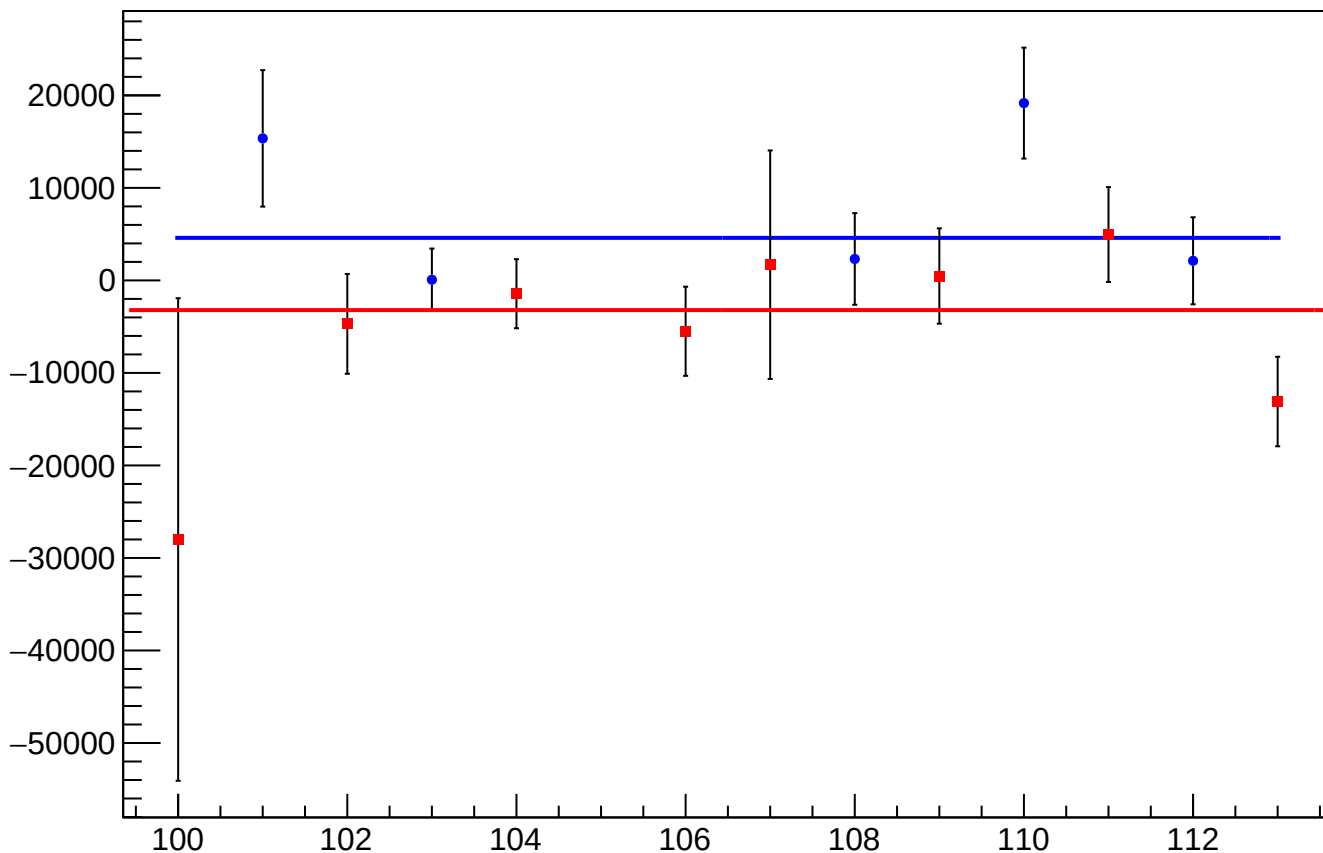
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 622.948+/-0.232  $\chi^2/\text{NDF}$ : 3926908.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug



Right In: 4598.910+/-2131.172  $\chi^2/\text{NDF}$ : 10.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3207.072+/-1904.650  $\chi^2/\text{NDF}$ : 8.8/7

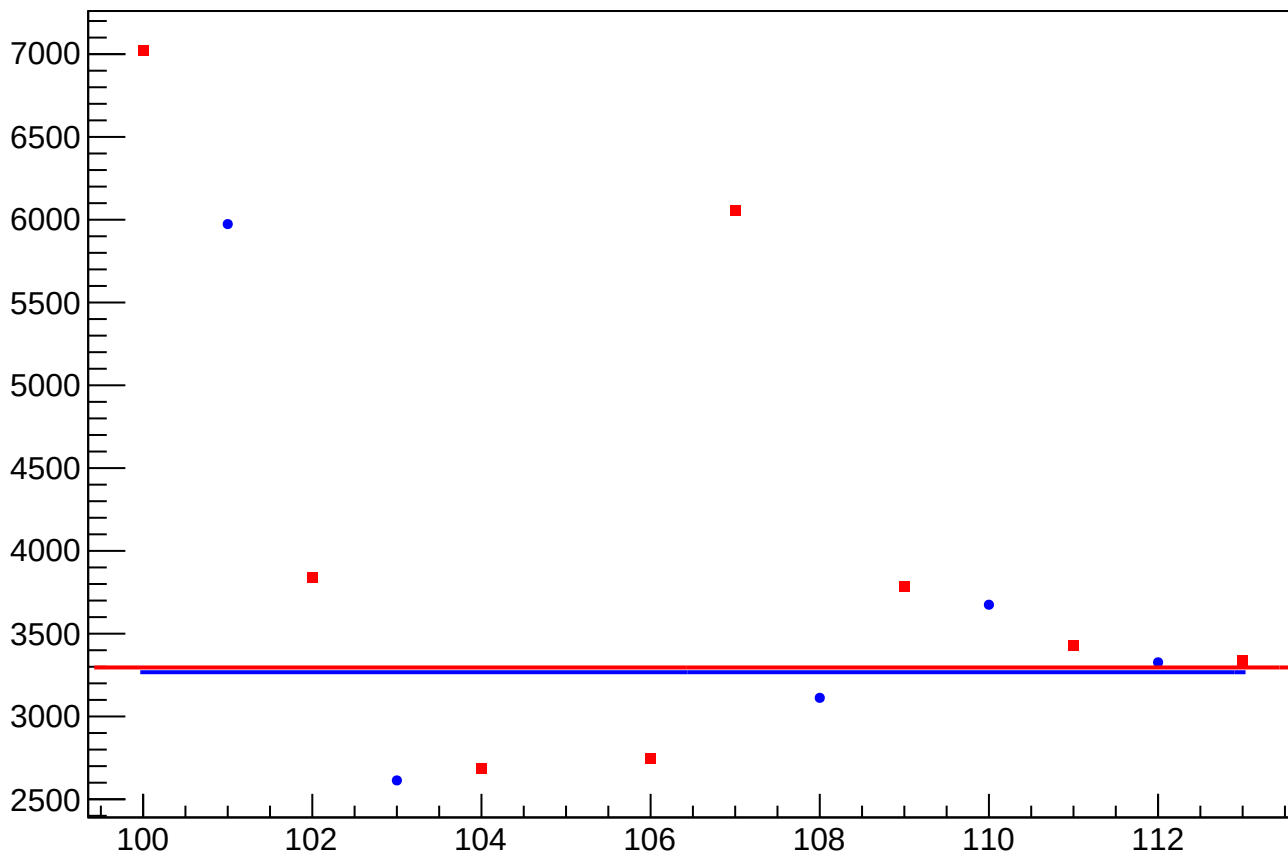
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 259.162+/-1420.148  $\chi^2/\text{NDF}$ : 26.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 3267.172+/-1.507  $\chi^2/\text{NDF}$ : 355923.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

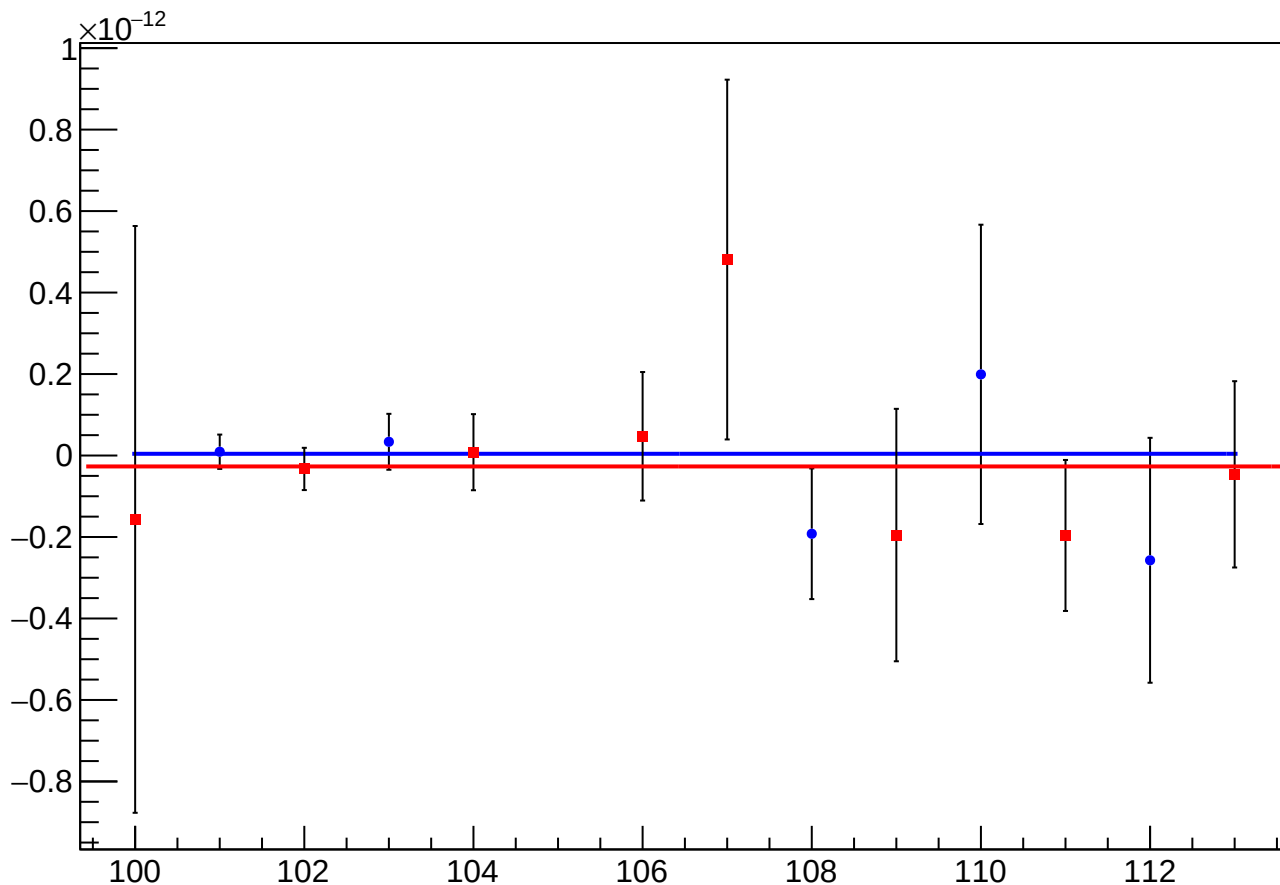
Right Out: 3295.929+/-1.347  $\chi^2/\text{NDF}$ : 259206.6/7

All: 3283.159+/-1.004  $\chi^2/\text{NDF}$ : 615333.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.9/7

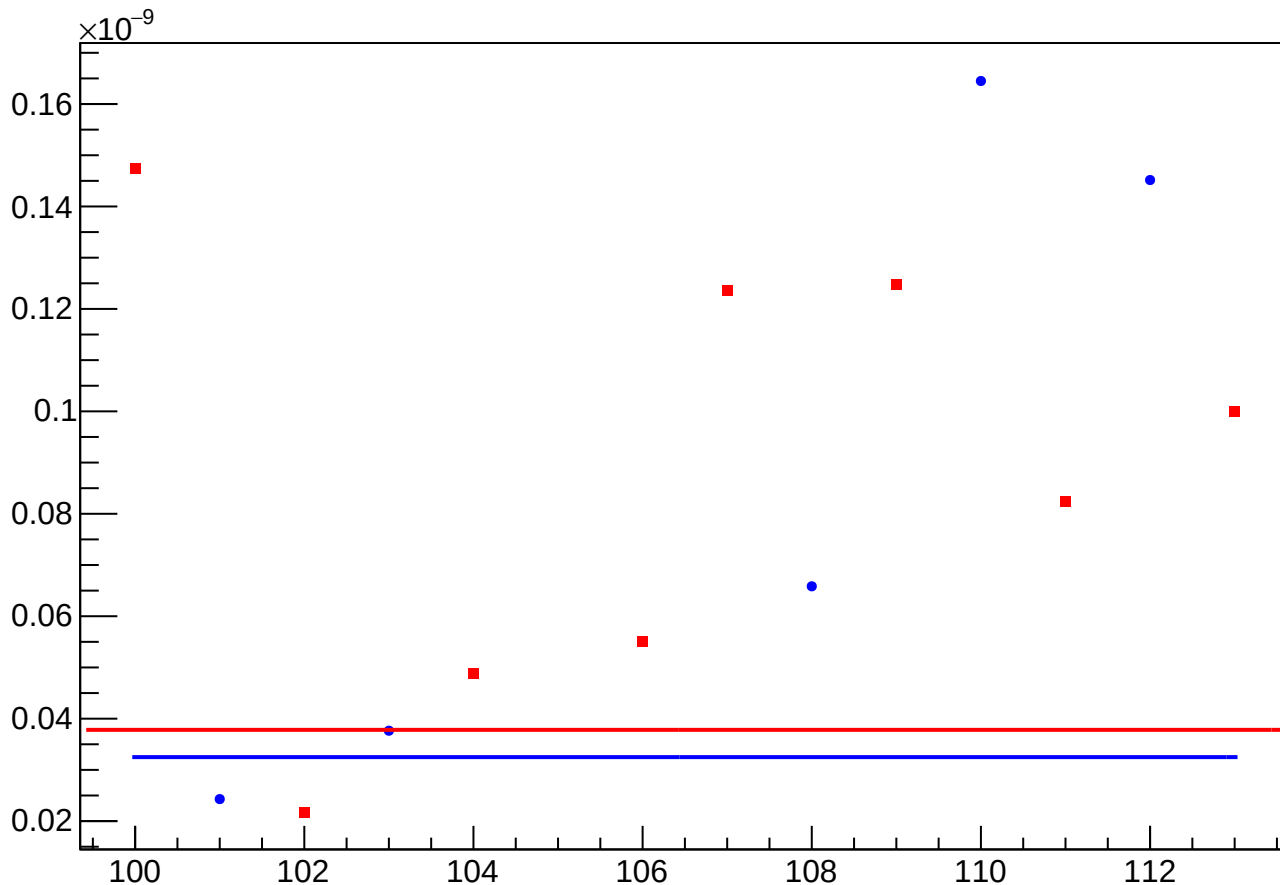
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 712774.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 789605.5/7

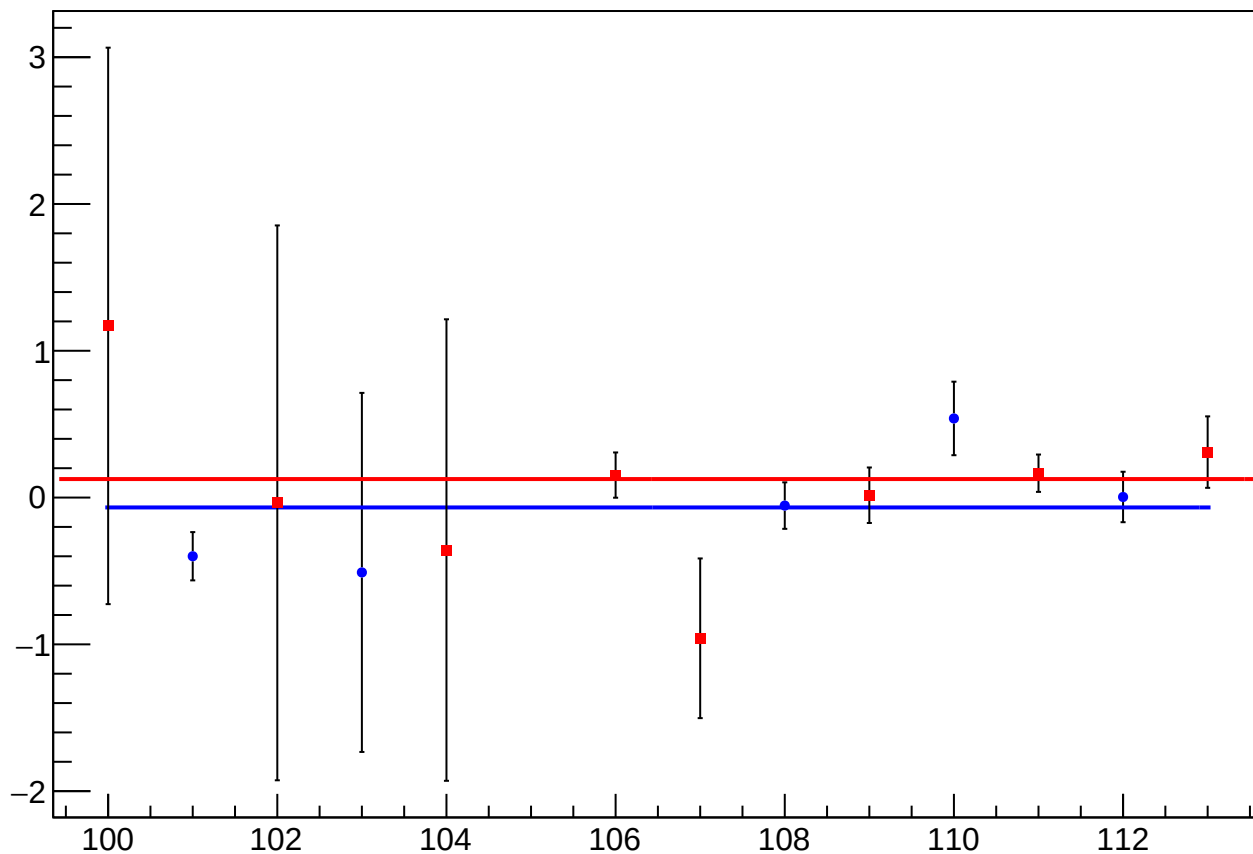
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1522007.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.067 $\pm$ 0.089  $\chi^2$ /NDF: 10.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.126 $\pm$ 0.081  $\chi^2$ /NDF: 5.4/7

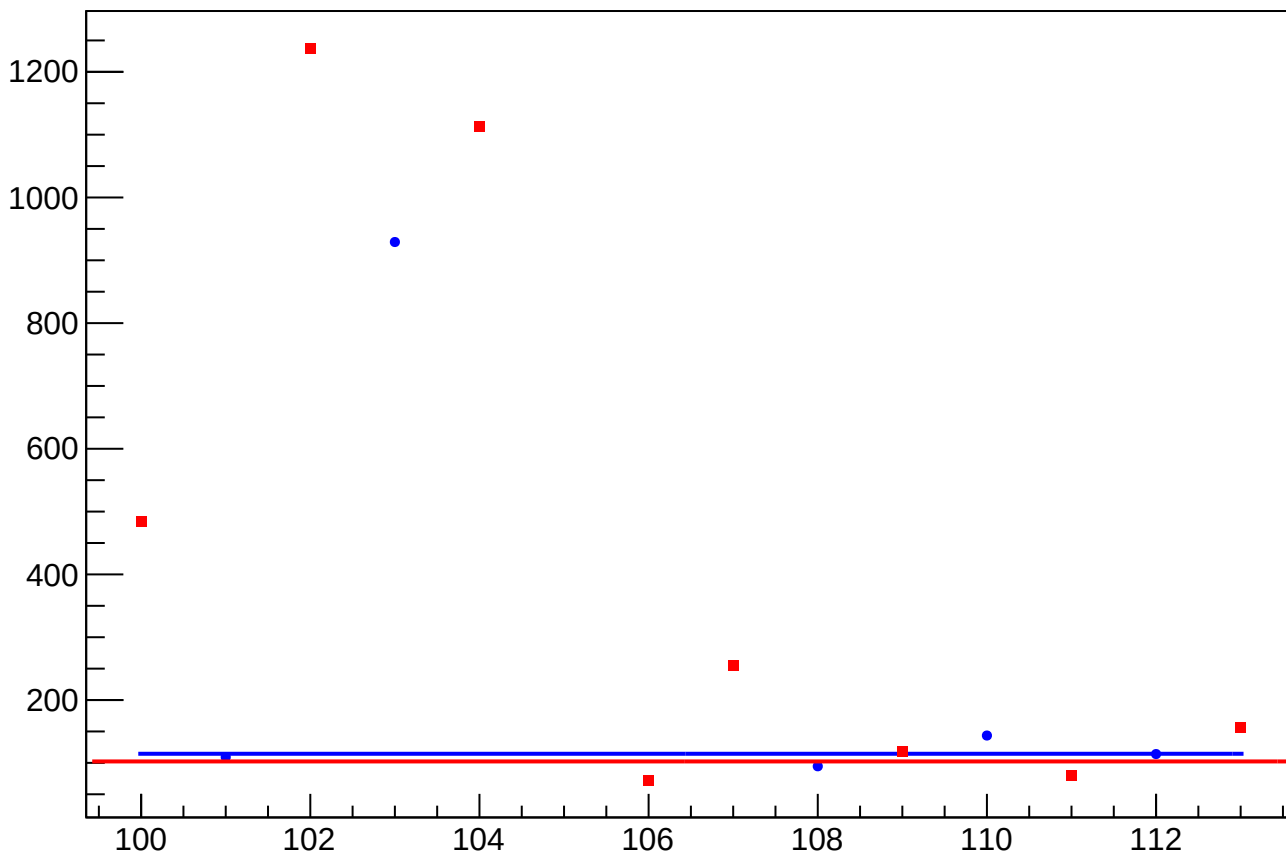
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.038 $\pm$ 0.060  $\chi^2$ /NDF: 18.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 114.481+/-0.063  $\chi^2/\text{NDF}$ : 947937.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 102.271+/-0.057  $\chi^2/\text{NDF}$ : 2046615.3/7

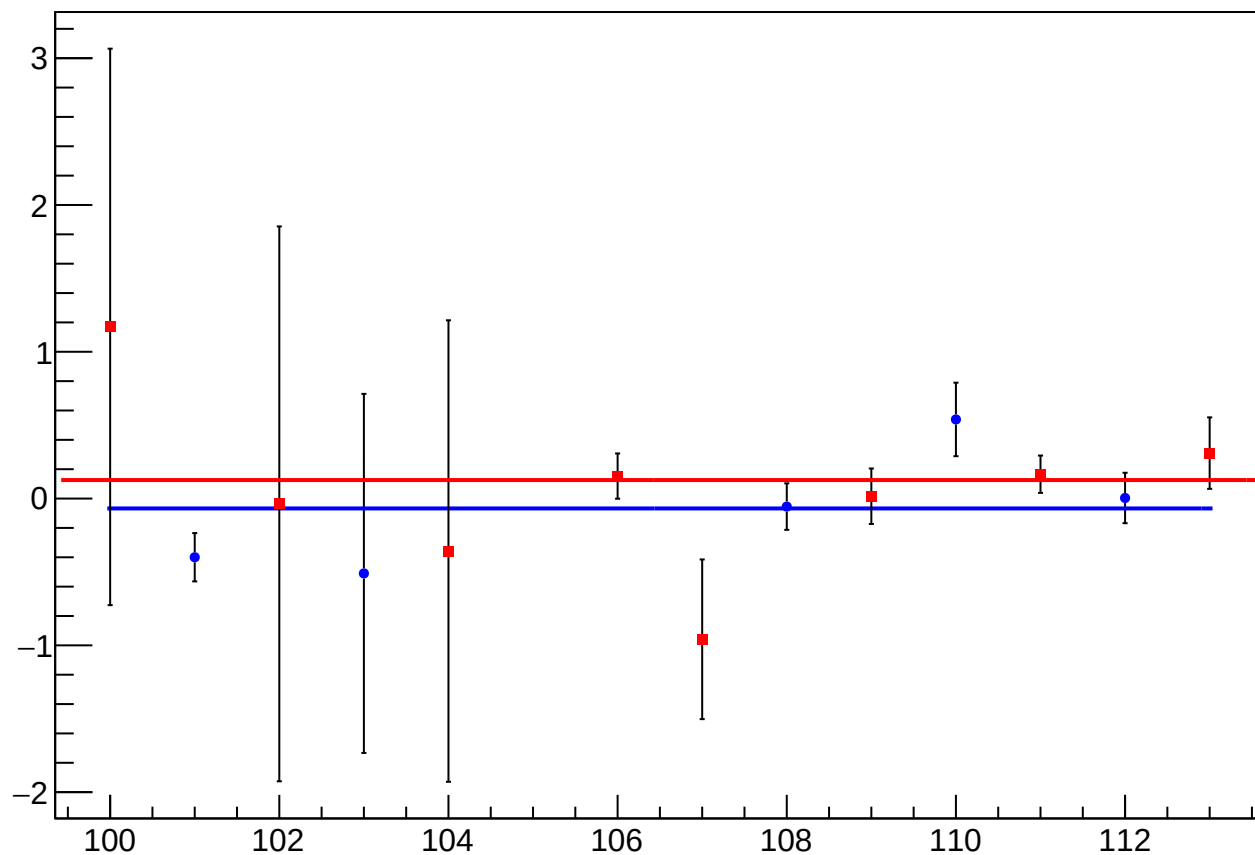
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 107.815+/-0.042  $\chi^2/\text{NDF}$ : 3015277.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.067 $\pm$ 0.089  $\chi^2$ /NDF: 10.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.126 $\pm$ 0.081  $\chi^2$ /NDF: 5.4/7

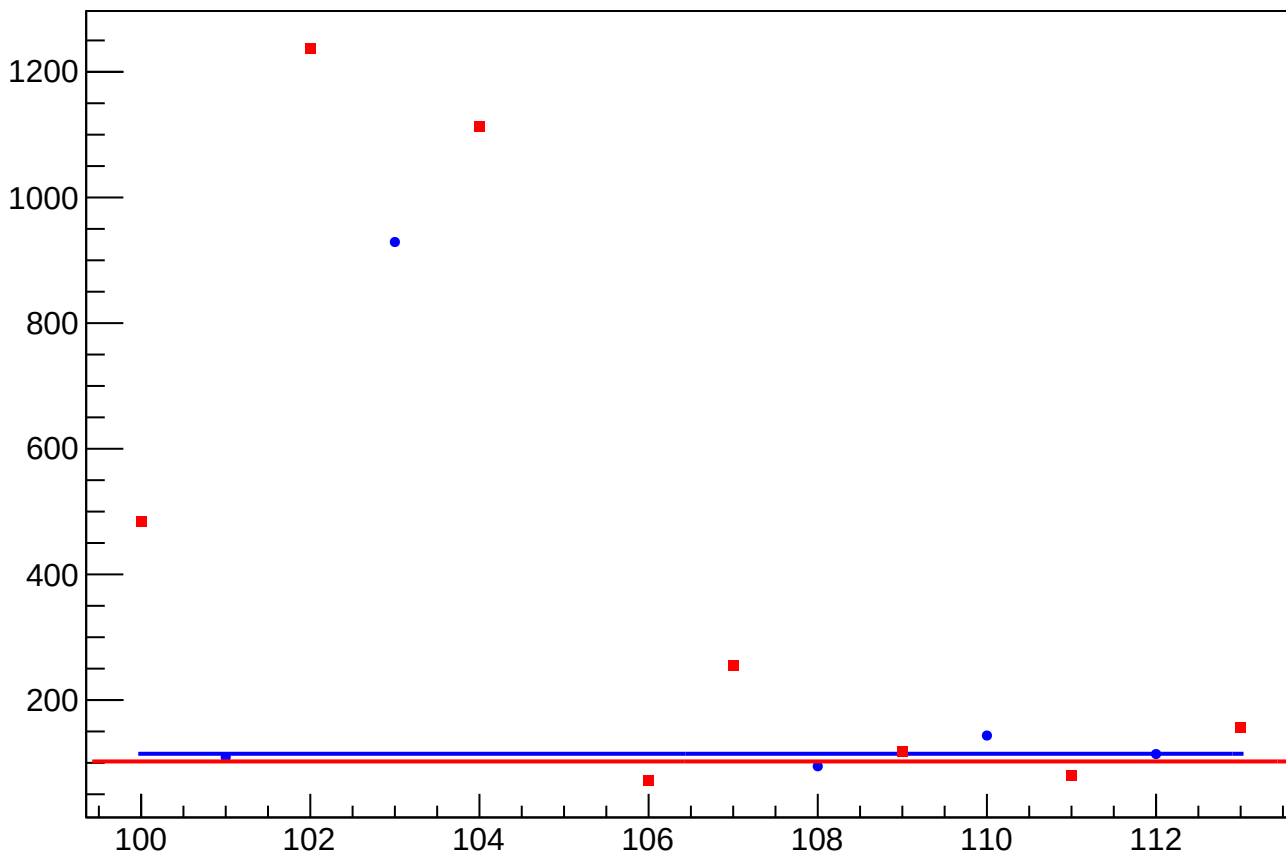
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.038 $\pm$ 0.060  $\chi^2$ /NDF: 18.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 114.481+/-0.063  $\chi^2/\text{NDF}$ : 947937.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 102.271+/-0.057  $\chi^2/\text{NDF}$ : 2046615.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

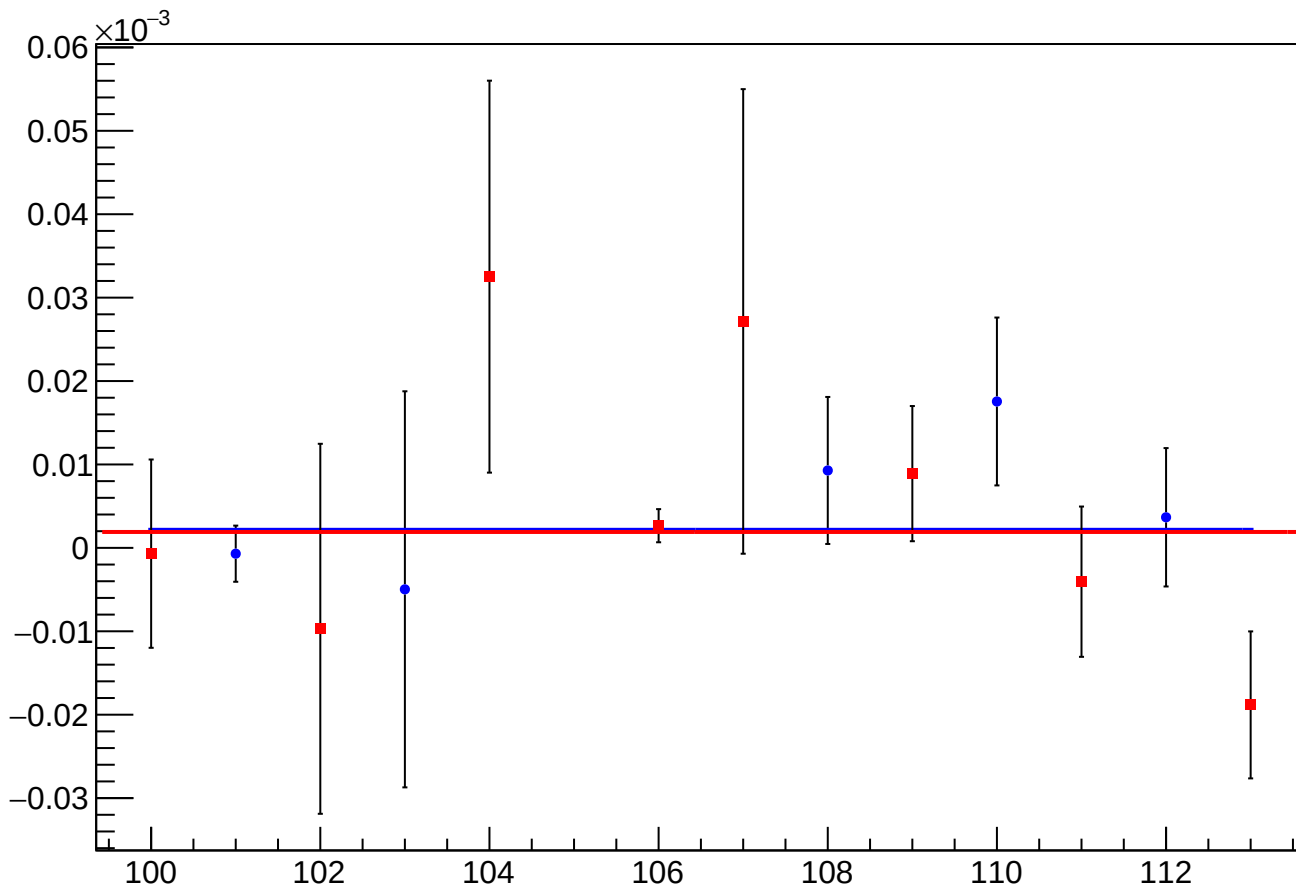
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 107.815+/-0.042  $\chi^2/\text{NDF}$ : 3015277.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.7/7

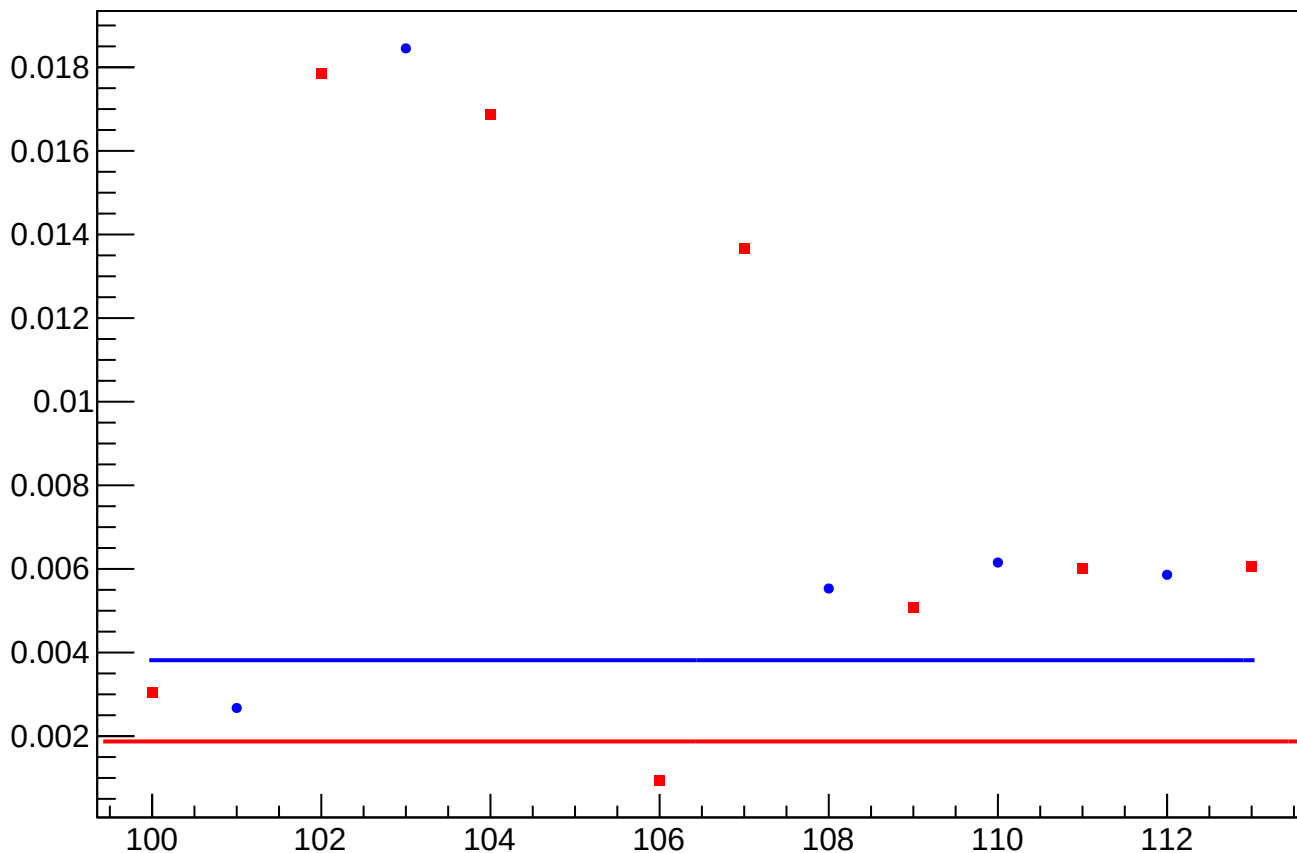
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 1295150.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3870732.0/7

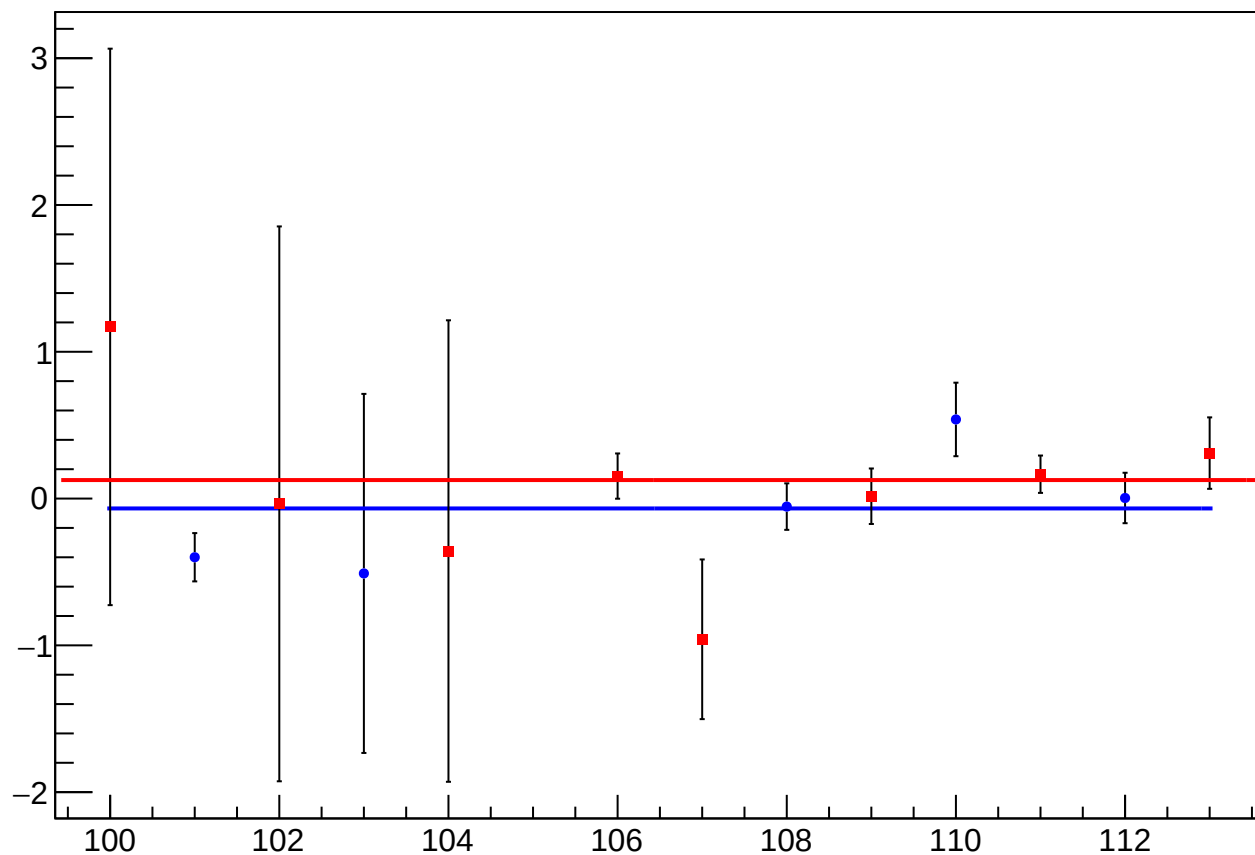
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 5845117.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.067 $\pm$ 0.089  $\chi^2$ /NDF: 10.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.126 $\pm$ 0.081  $\chi^2$ /NDF: 5.4/7

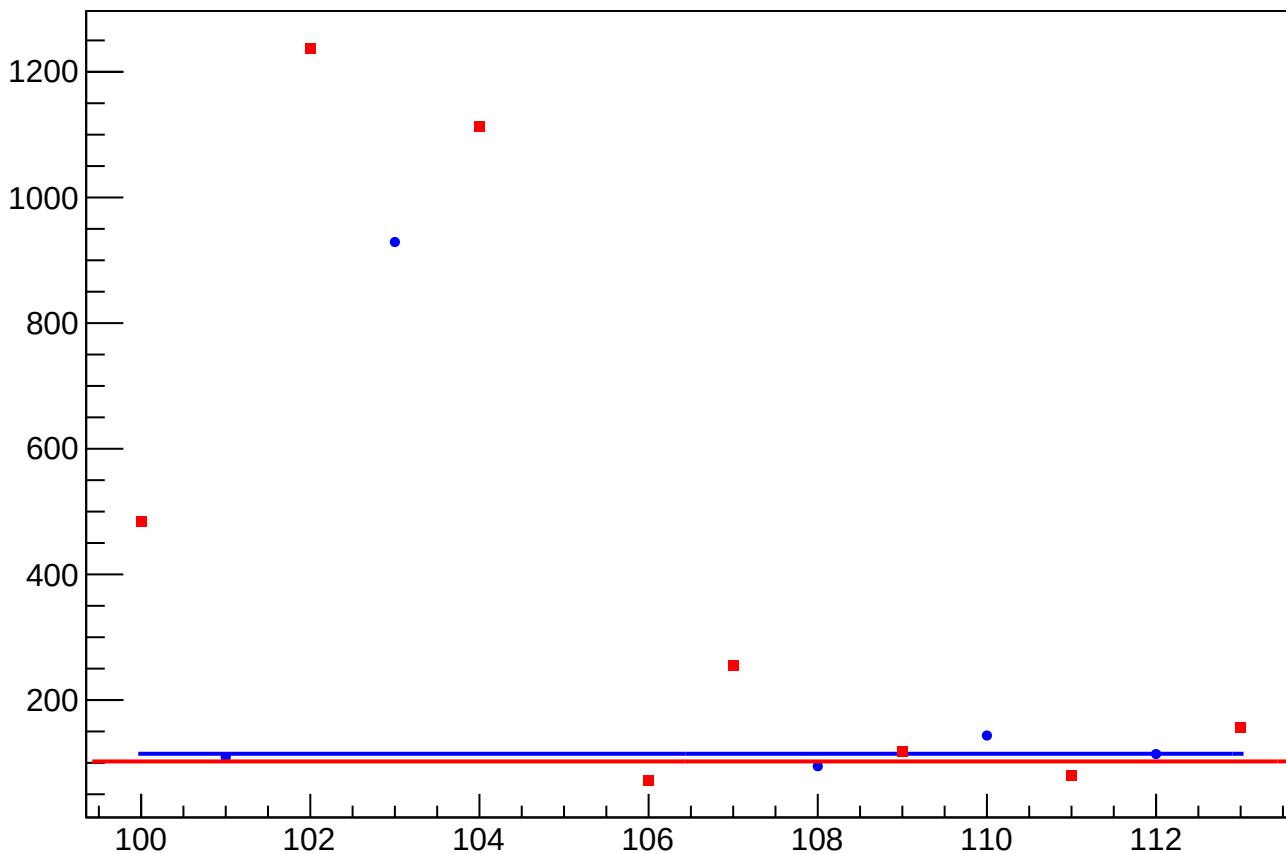
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.038 $\pm$ 0.060  $\chi^2$ /NDF: 18.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 114.481+/-0.063  $\chi^2/\text{NDF}$ : 947929.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 102.271+/-0.057  $\chi^2/\text{NDF}$ : 2046583.9/7

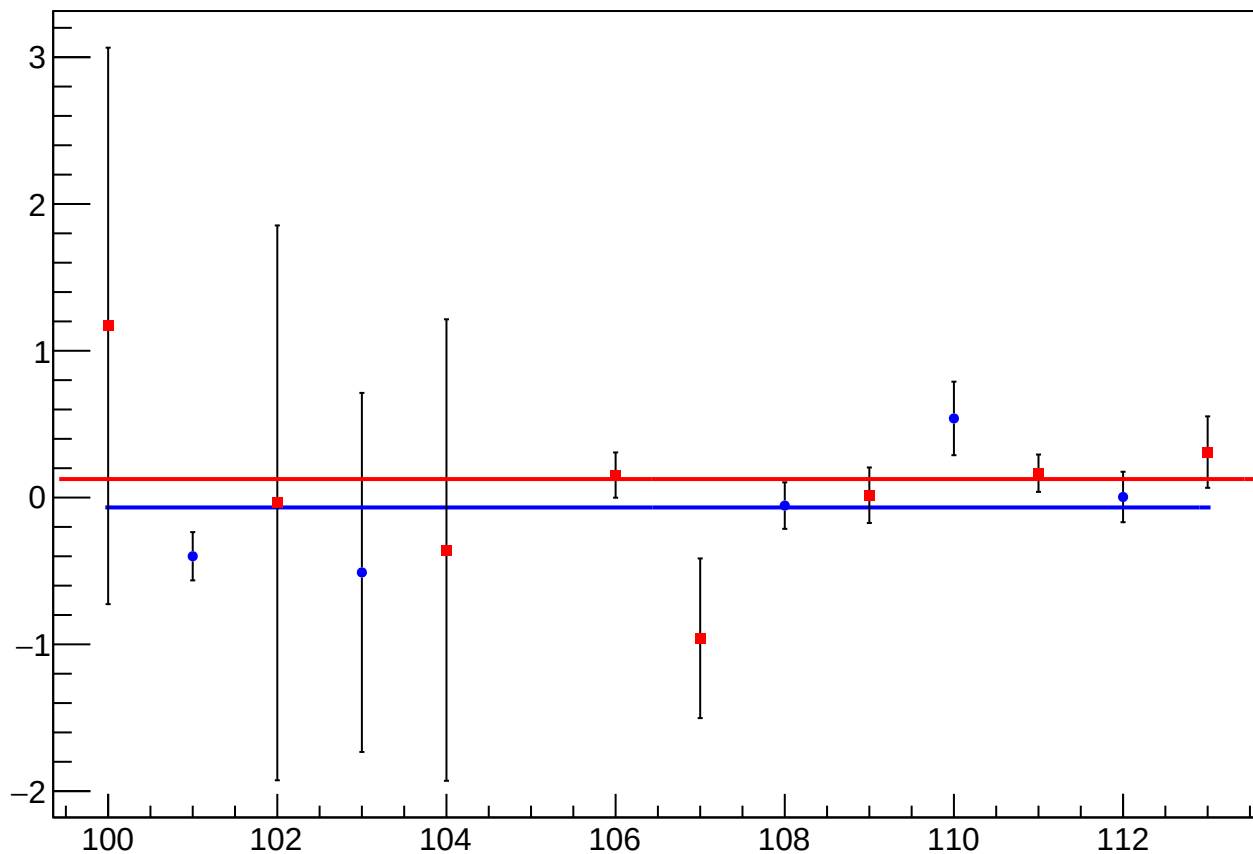
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 107.815+/-0.042  $\chi^2/\text{NDF}$ : 3015240.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.067 $\pm$ 0.089  $\chi^2$ /NDF: 10.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.126 $\pm$ 0.081  $\chi^2$ /NDF: 5.4/7

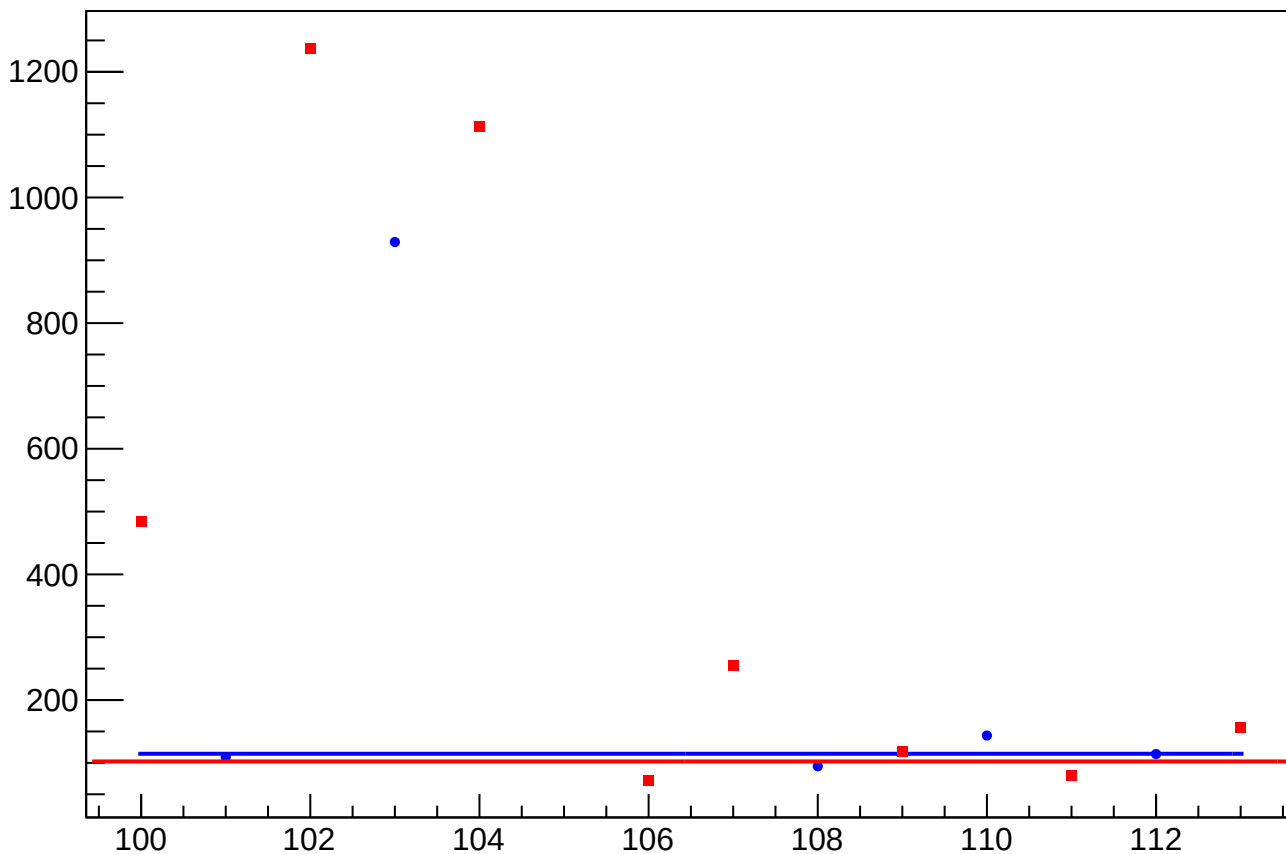
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.038 $\pm$ 0.060  $\chi^2$ /NDF: 18.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 114.481+/-0.063  $\chi^2/\text{NDF}$ : 947929.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 102.271+/-0.057  $\chi^2/\text{NDF}$ : 2046583.9/7

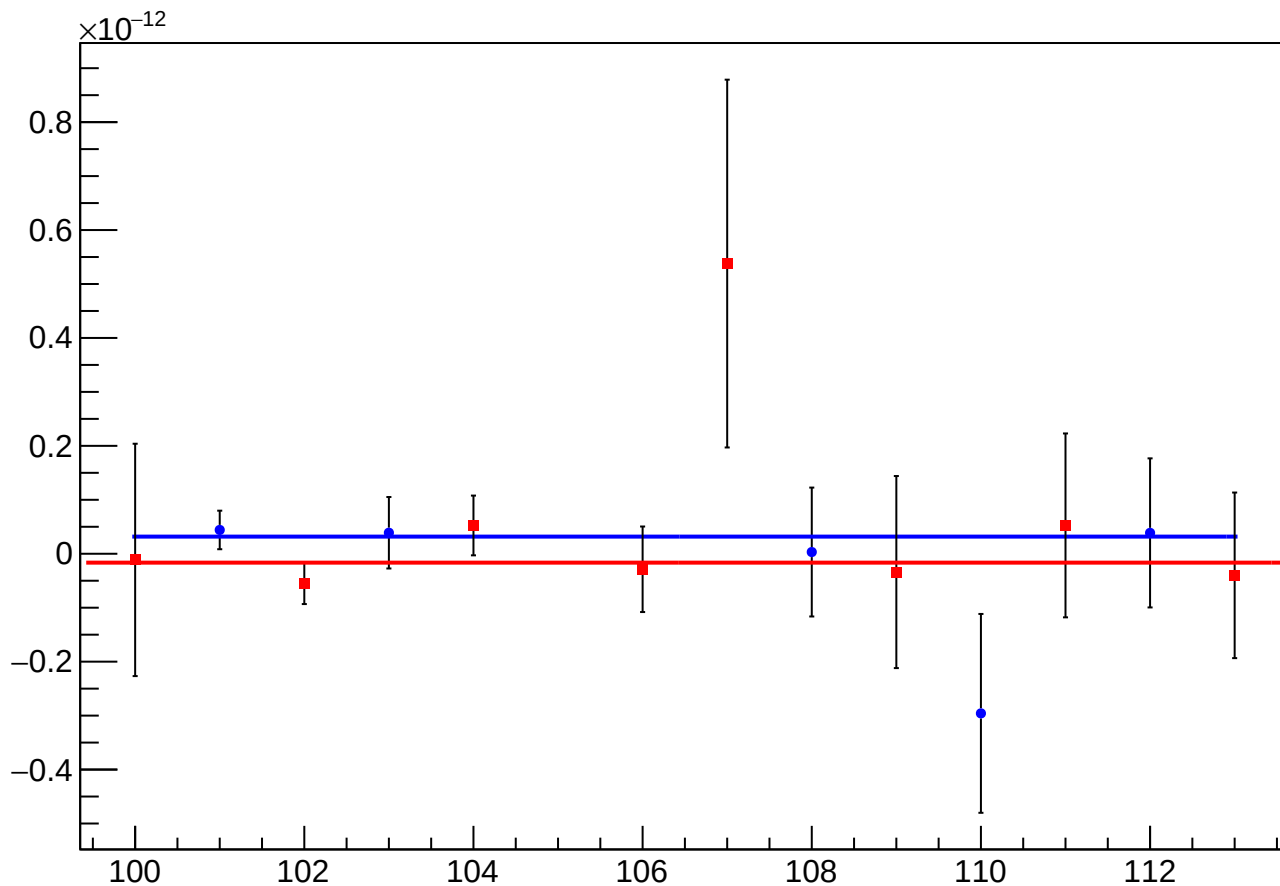
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 107.815+/-0.042  $\chi^2/\text{NDF}$ : 3015240.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.4/7

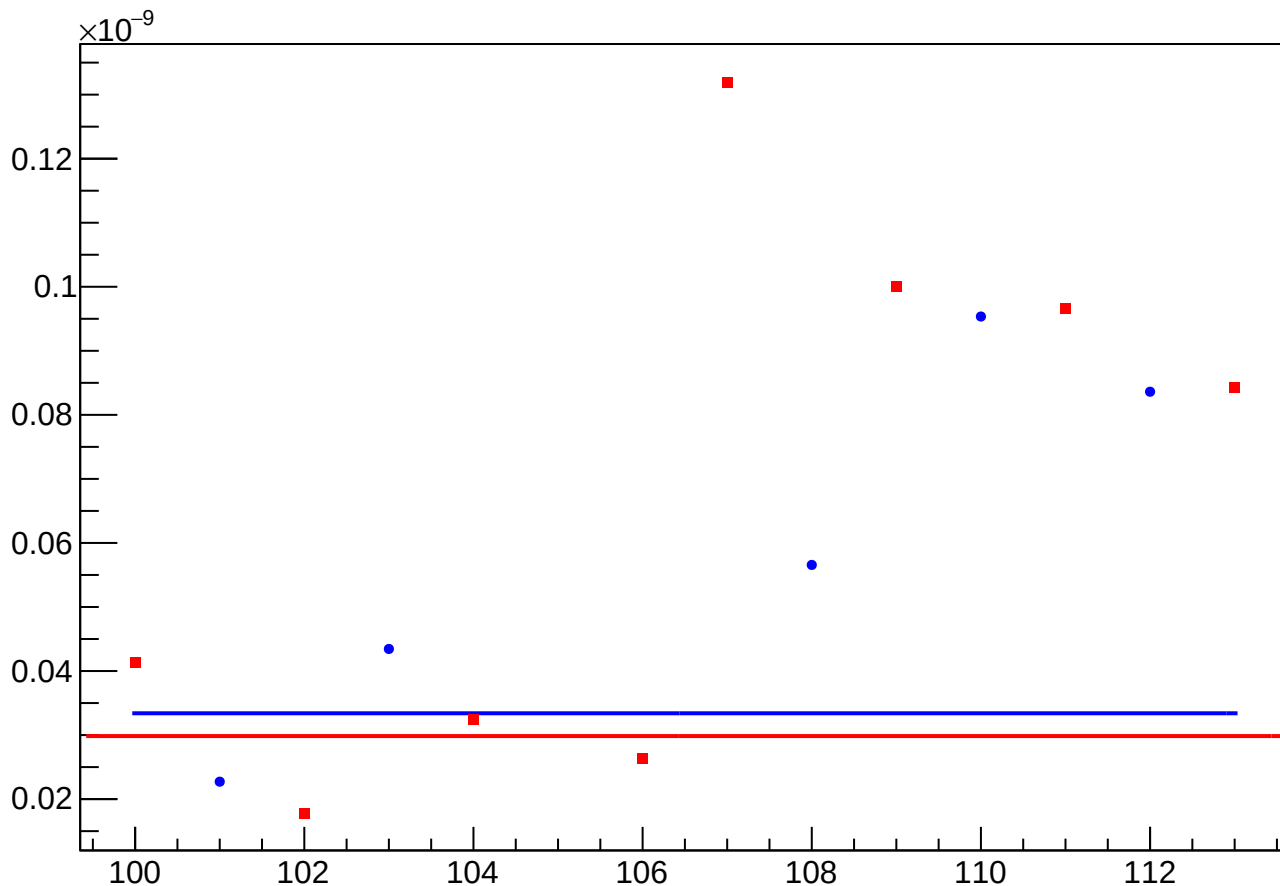
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 790072.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1261791.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

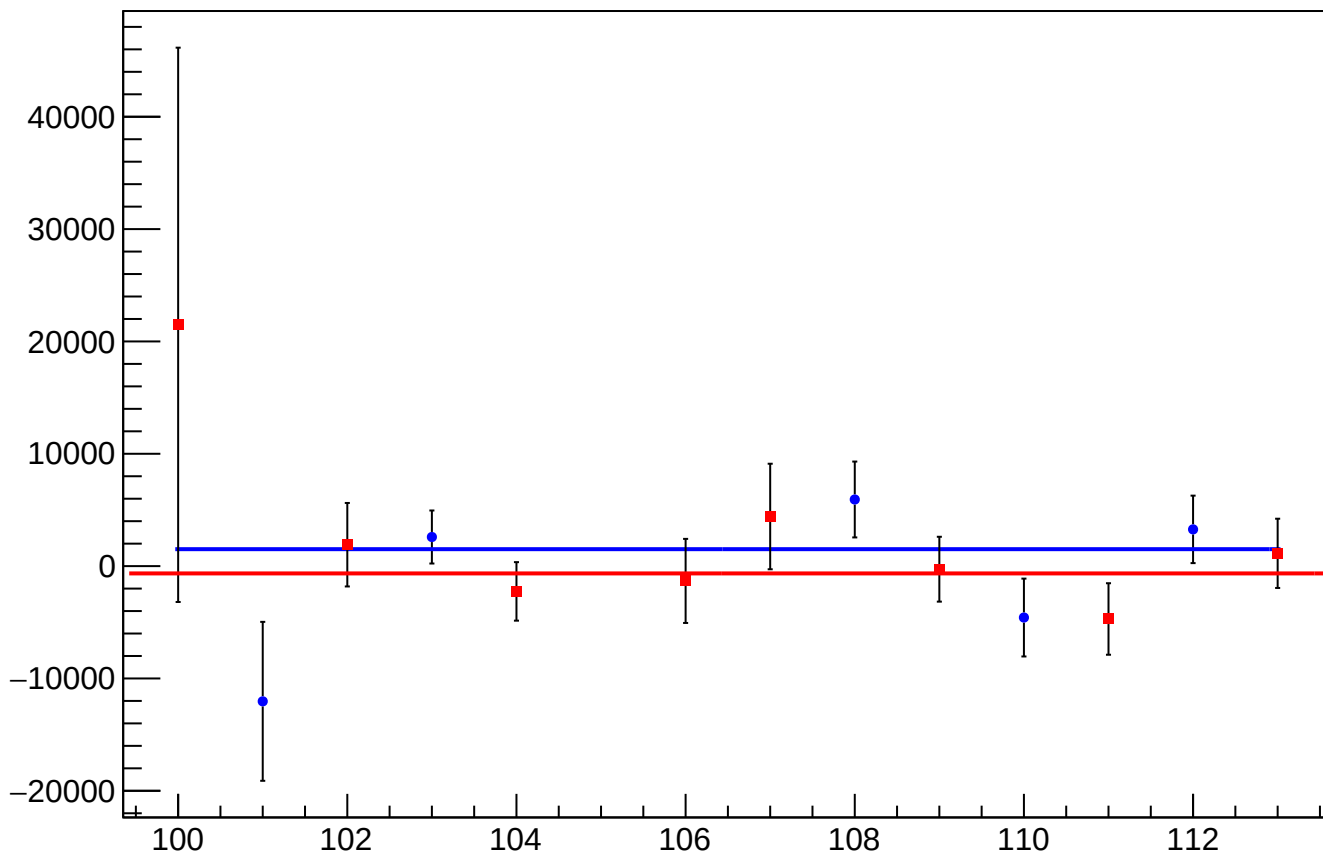
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2067441.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 1508.811+/-1441.227  $\chi^2/\text{NDF}$ : 9.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -649.701+/-1228.884  $\chi^2/\text{NDF}$ : 4.8/7

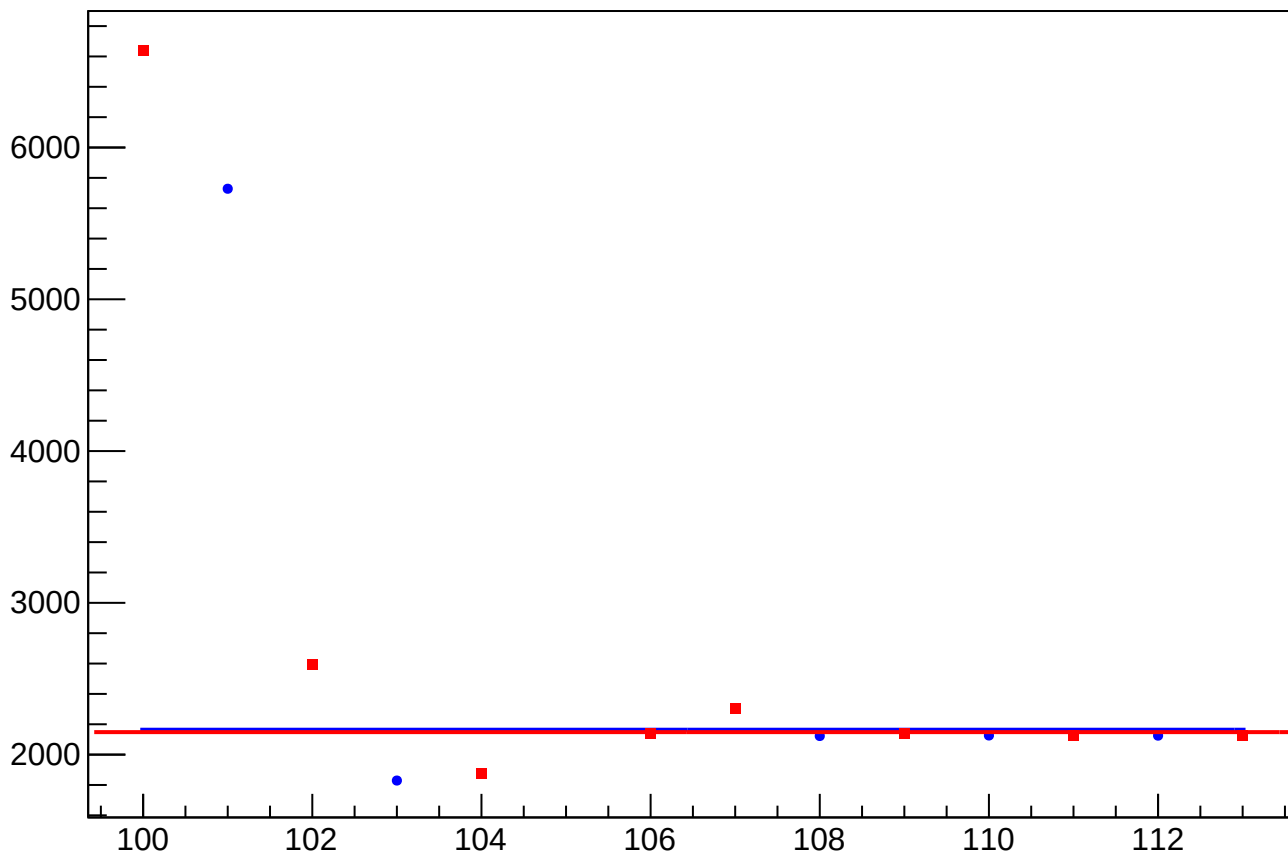
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 258.976+/-935.104  $\chi^2/\text{NDF}$ : 15.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 2164.005+/-1.019  $\chi^2/\text{NDF}$ : 548892.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2148.229+/-0.869  $\chi^2/\text{NDF}$ : 120123.9/7

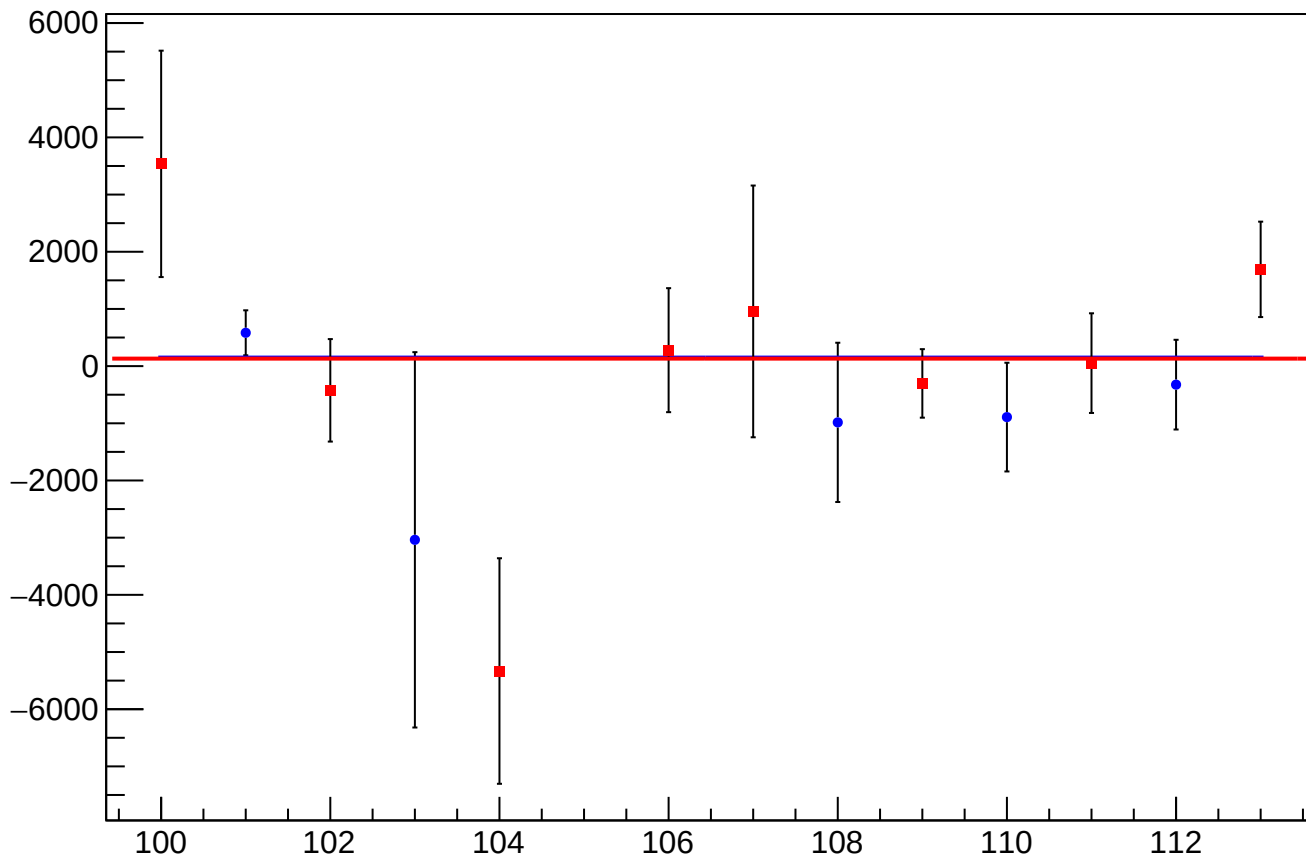
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2154.870+/-0.661  $\chi^2/\text{NDF}$ : 669155.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_reg\_correction\_mean vs Slug



Right In: 149.095+/-319.450  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 131.207+/-346.018  $\chi^2/\text{NDF}$ : 15.2/7

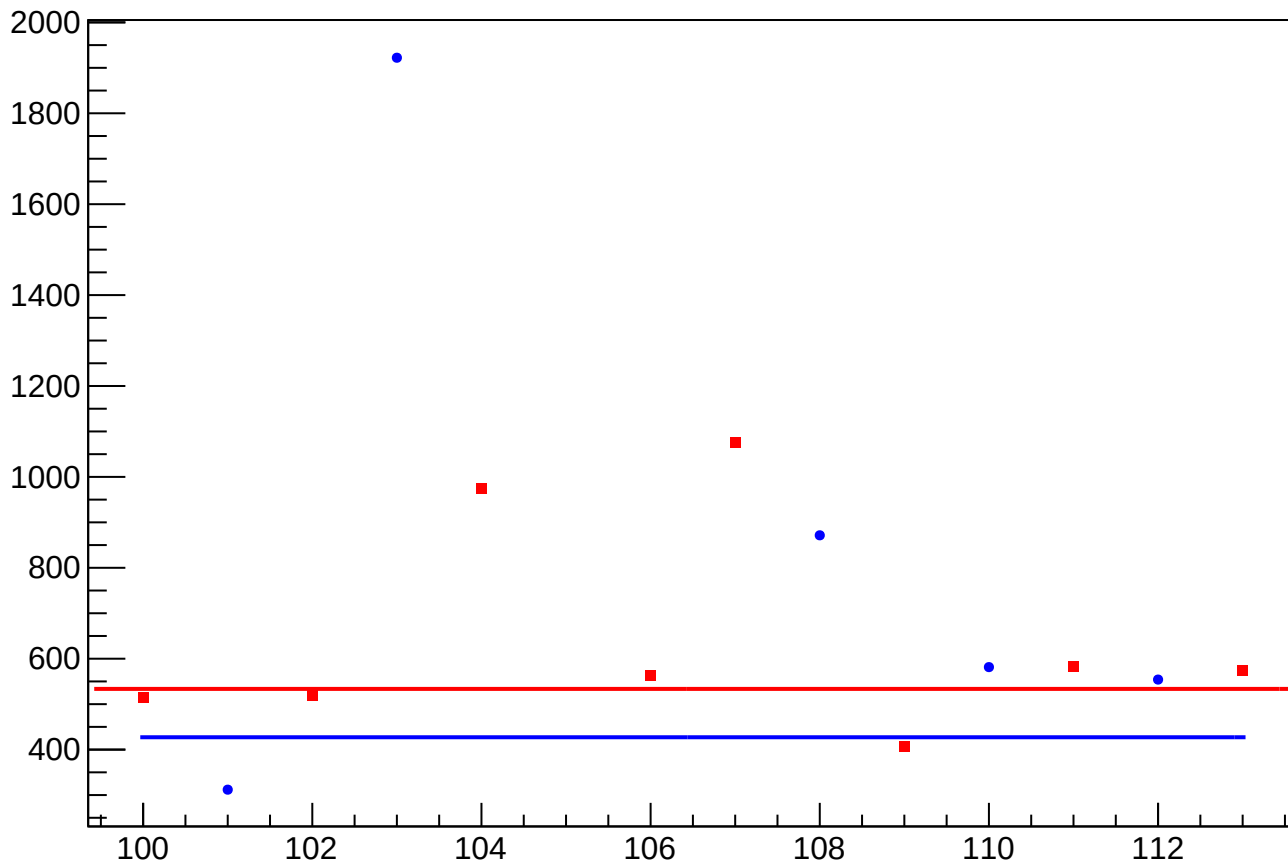
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 140.864+/-234.717  $\chi^2/\text{NDF}$ : 19.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_reg\_correction\_rms vs Slug



Right In: 427.177+/-0.226  $\chi^2/\text{NDF}$ : 895456.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 533.565+/-0.245  $\chi^2/\text{NDF}$ : 323726.9/7

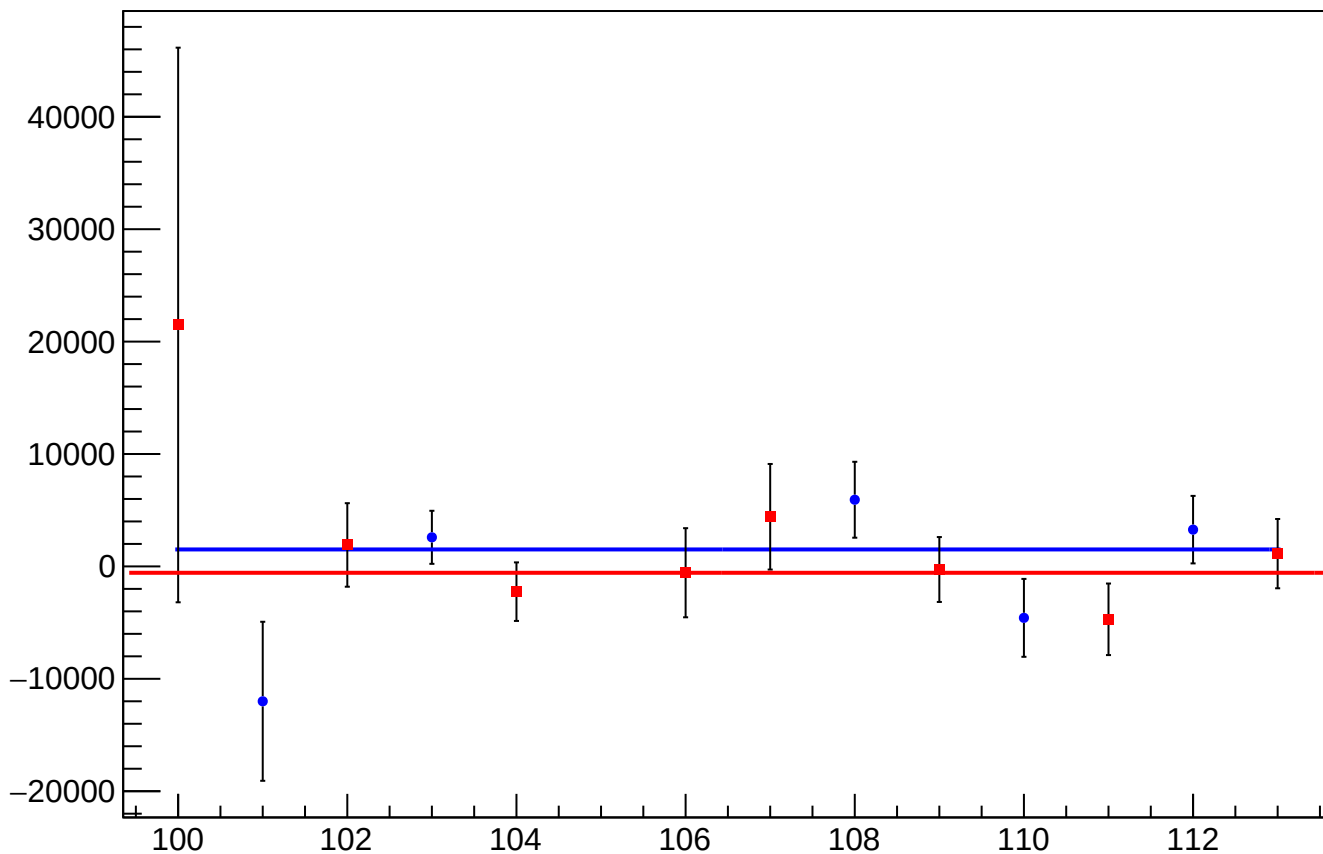
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 476.131+/-0.166  $\chi^2/\text{NDF}$ : 1321253.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 1509.146 $\pm$ 1441.228  $\chi^2$ /NDF: 9.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -567.787 $\pm$ 1236.164  $\chi^2$ /NDF: 4.8/7

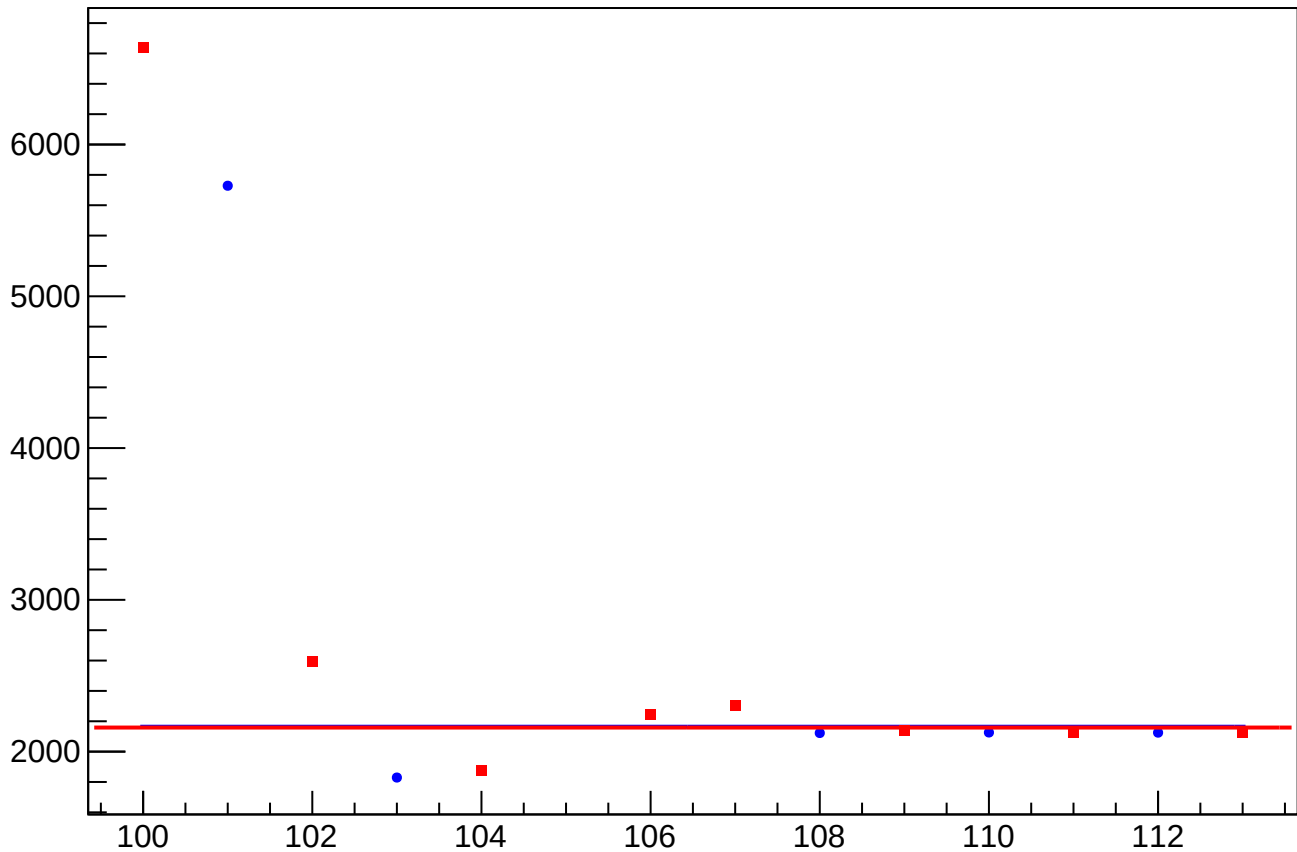
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 312.533 $\pm$ 938.300  $\chi^2$ /NDF: 15.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 2164.005+/-1.019  $\chi^2/\text{NDF}$ : 548892.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2158.586+/-0.874  $\chi^2/\text{NDF}$ : 121072.1/7

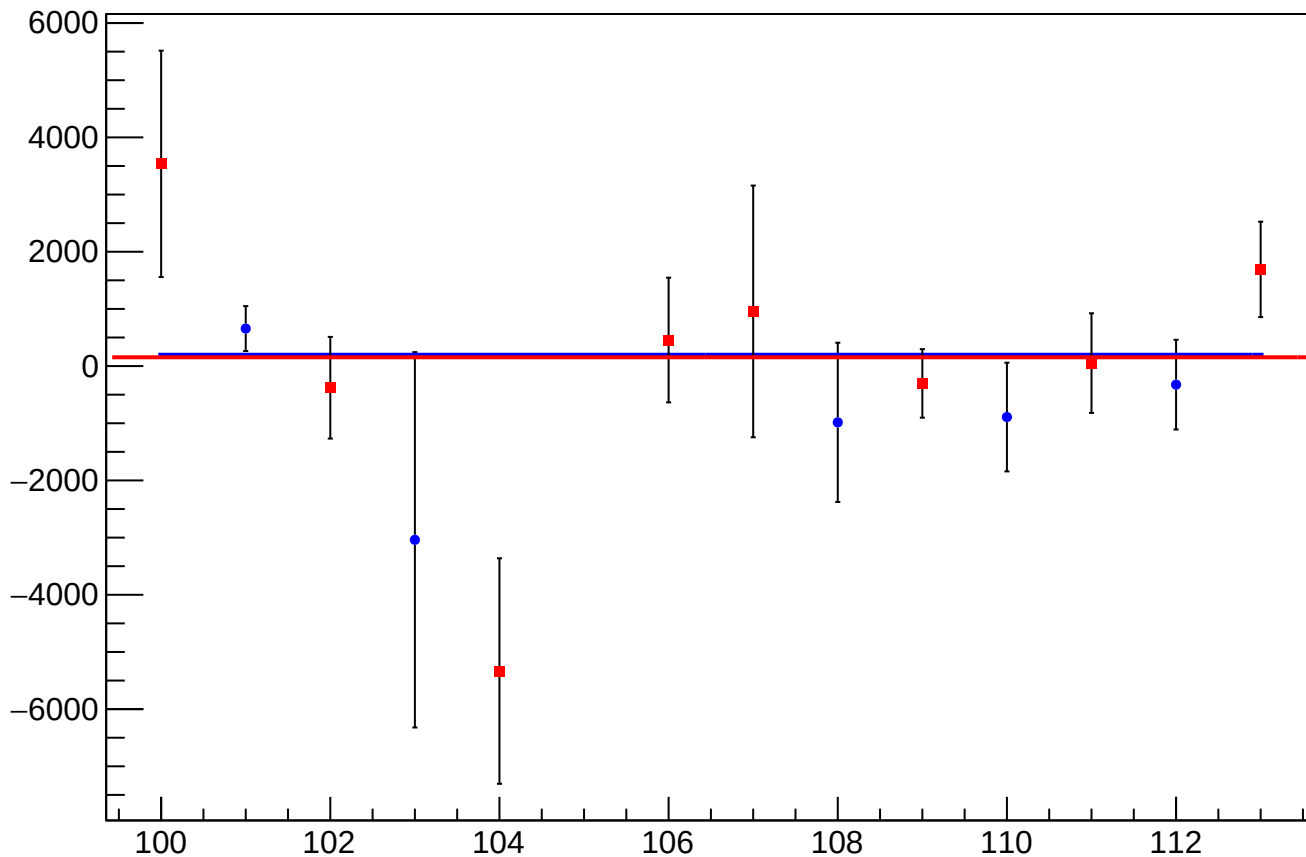
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2160.883+/-0.663  $\chi^2/\text{NDF}$ : 669981.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_cor\_correction\_mean vs Slug



Right In: 198.198+/-319.217  $\chi^2/\text{NDF}$ : 4.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 153.900+/-345.844  $\chi^2/\text{NDF}$ : 15.2/7

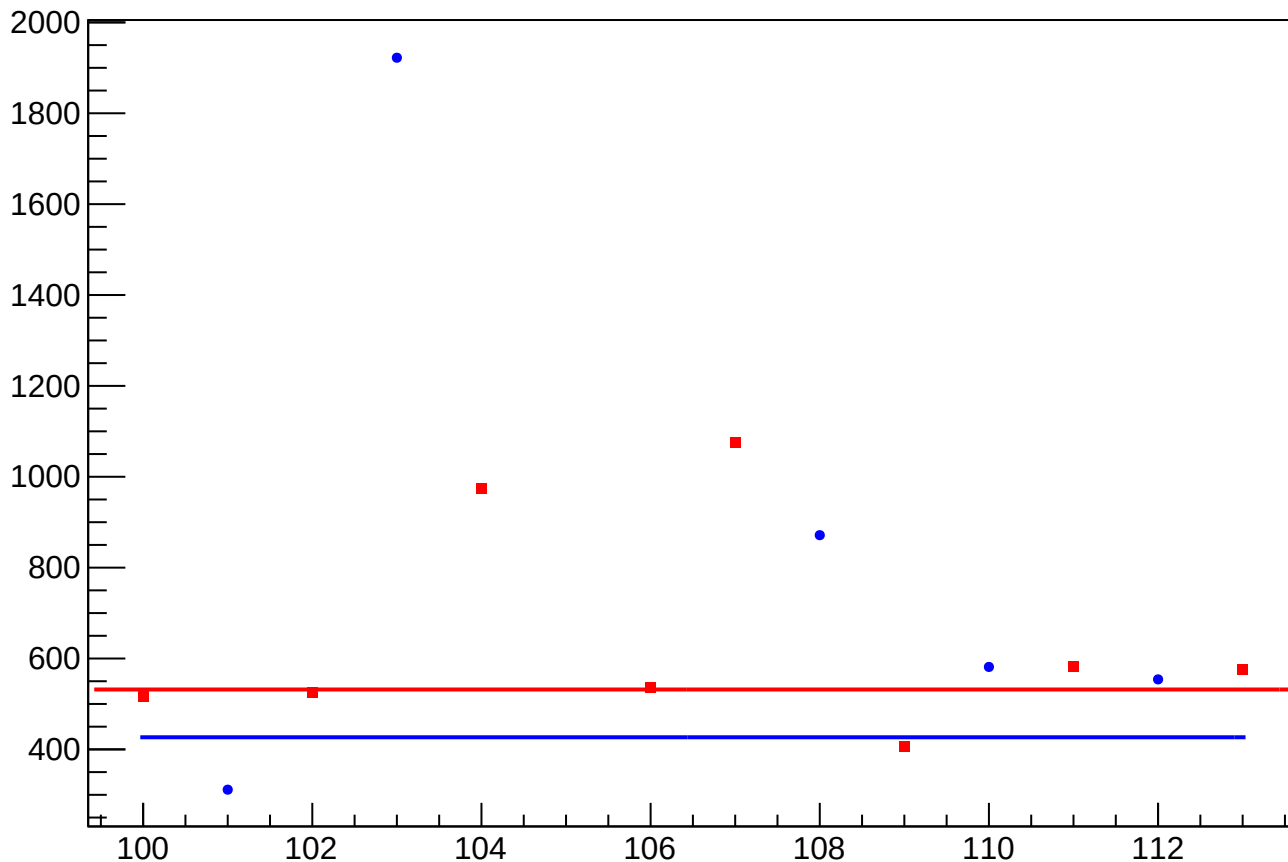
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 177.820+/-234.570  $\chi^2/\text{NDF}$ : 20.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_cor\_correction\_rms vs Slug



Right In: 426.678+/-0.226  $\chi^2/\text{NDF}$ : 897276.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 531.805+/-0.245  $\chi^2/\text{NDF}$ : 321696.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

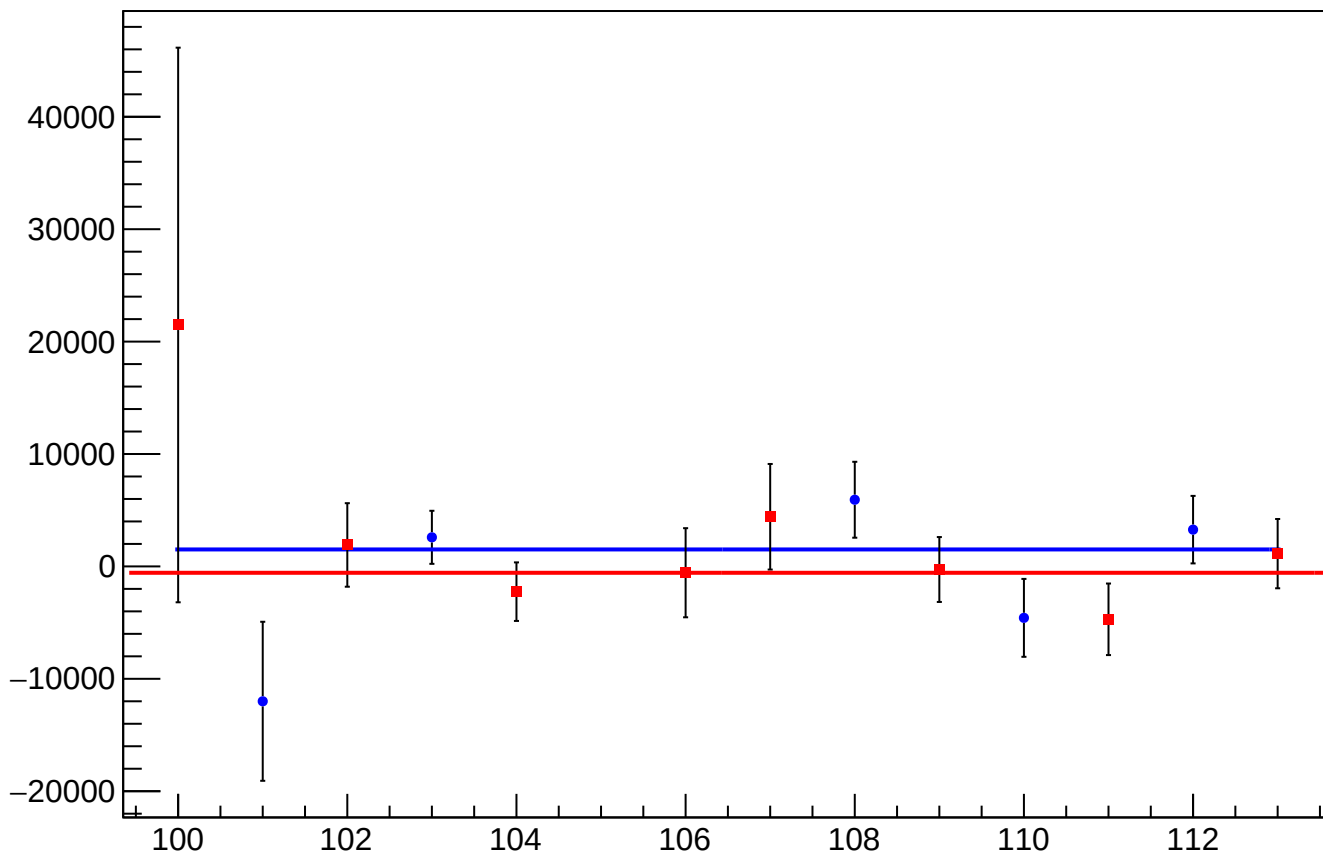
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 475.039+/-0.166  $\chi^2/\text{NDF}$ : 1318758.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 1509.146 $\pm$ 1441.228  $\chi^2$ /NDF: 9.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -567.787 $\pm$ 1236.164  $\chi^2$ /NDF: 4.8/7

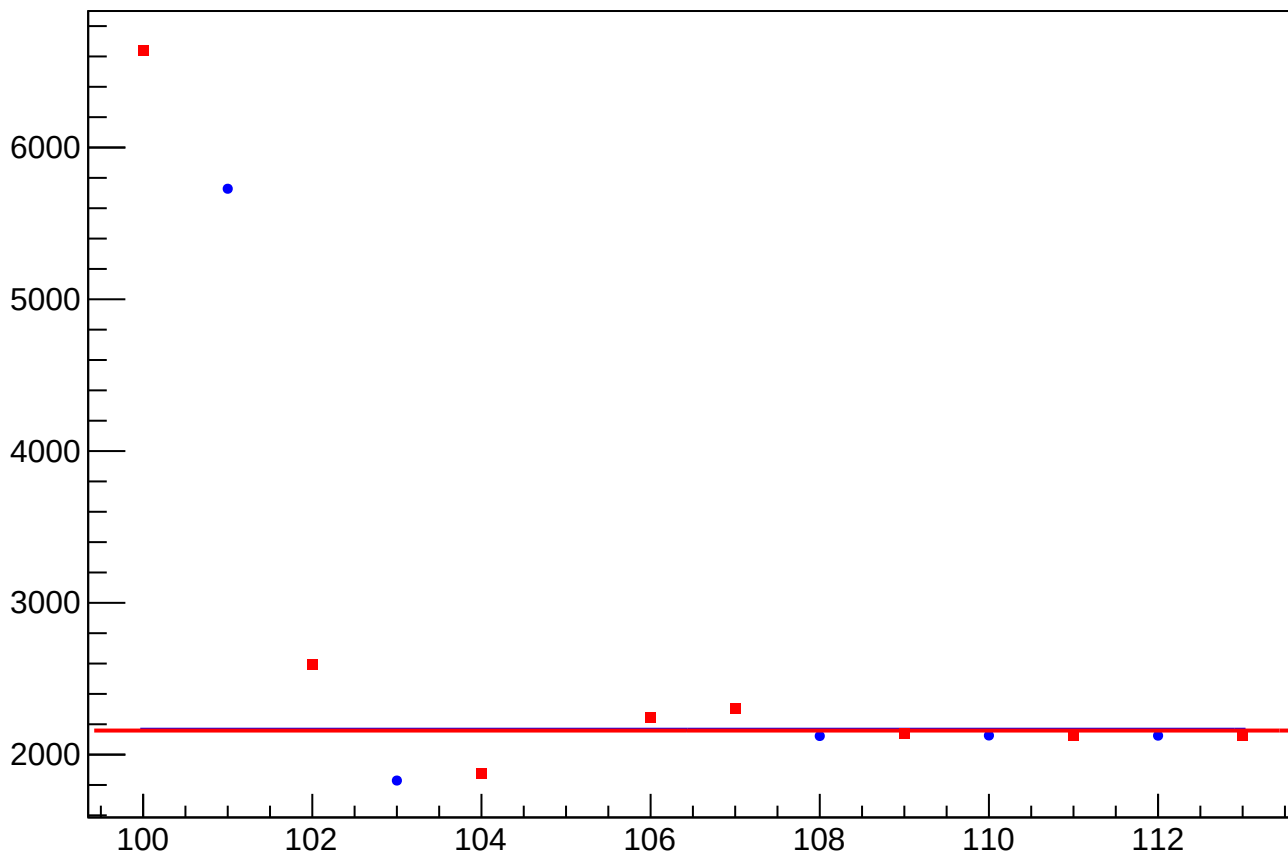
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 312.533 $\pm$ 938.300  $\chi^2$ /NDF: 15.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 2164.005+/-1.019  $\chi^2/\text{NDF}$ : 548892.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2158.586+/-0.874  $\chi^2/\text{NDF}$ : 121072.1/7

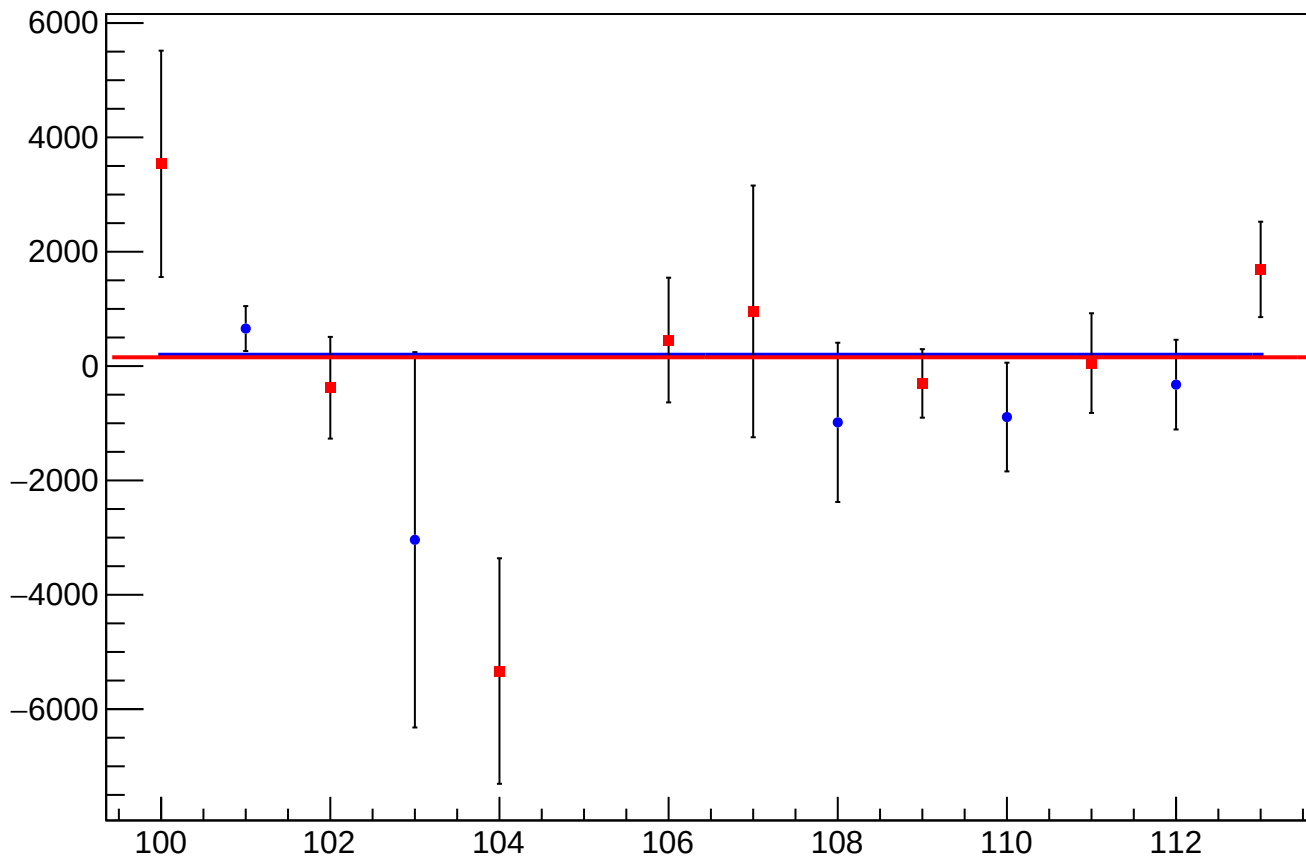
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2160.883+/-0.663  $\chi^2/\text{NDF}$ : 669981.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 198.198+/-319.217  $\chi^2/\text{NDF}$ : 4.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 153.900+/-345.844  $\chi^2/\text{NDF}$ : 15.2/7

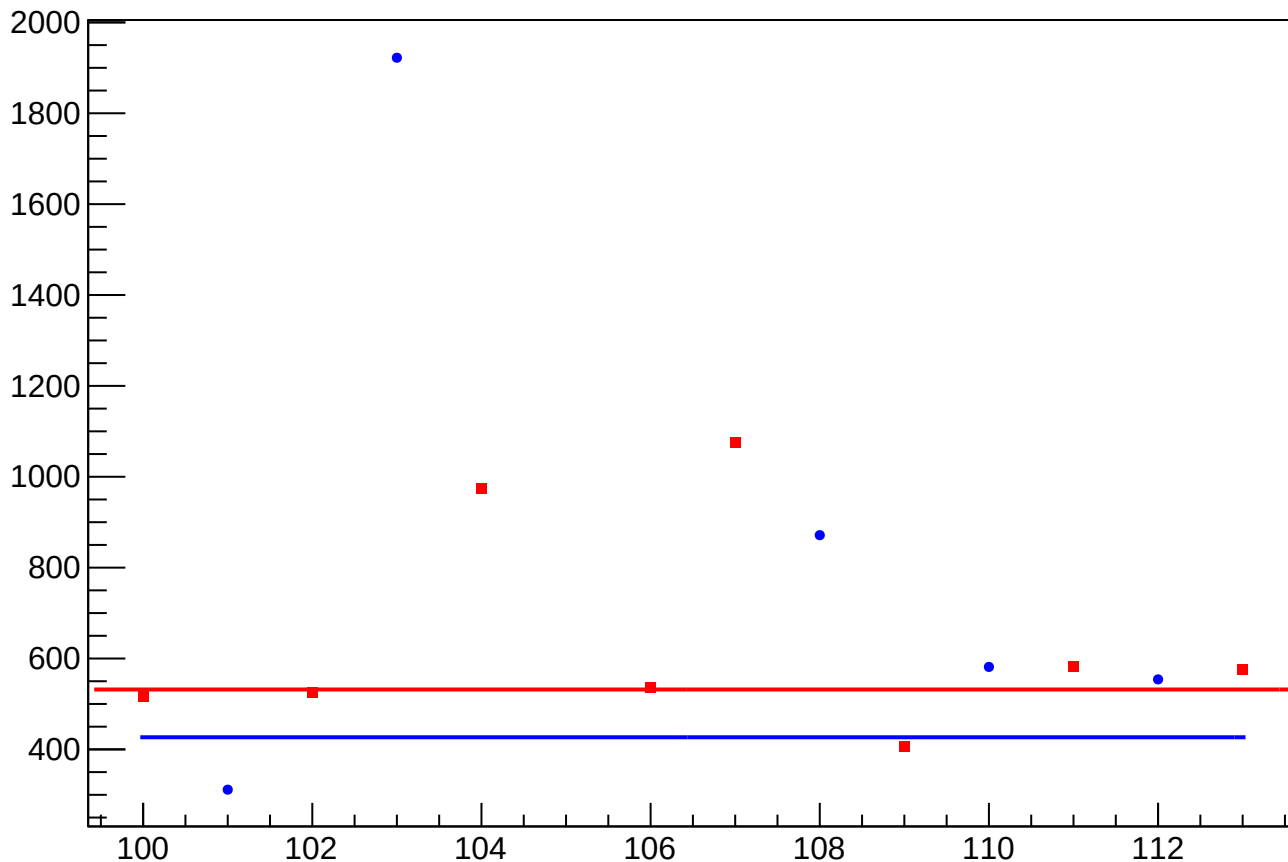
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 177.820+/-234.570  $\chi^2/\text{NDF}$ : 20.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 426.678+/-0.226  $\chi^2/\text{NDF}$ : 897276.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 531.805+/-0.245  $\chi^2/\text{NDF}$ : 321696.8/7

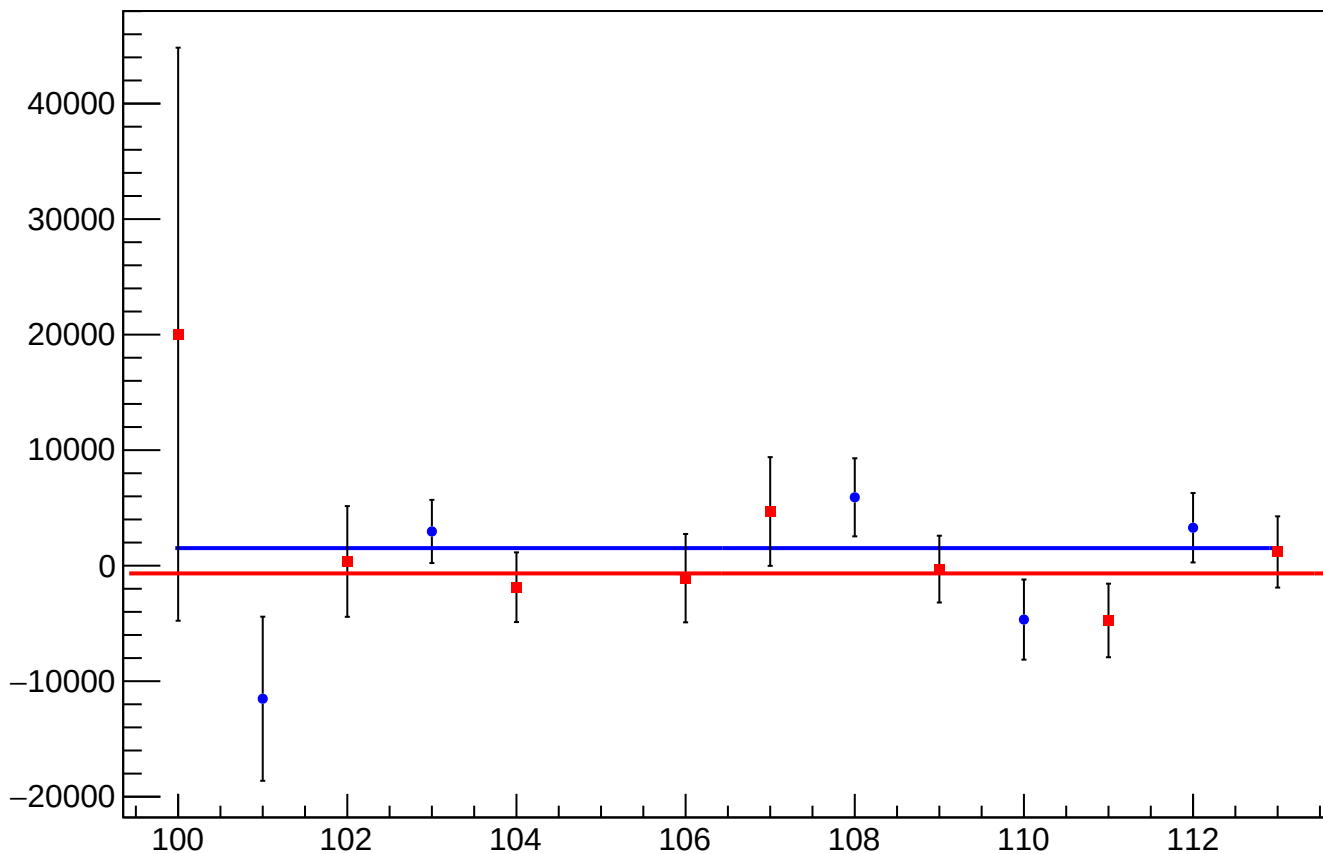
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 475.039+/-0.166  $\chi^2/\text{NDF}$ : 1318758.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 1519.329+/-1516.153  $\chi^2/\text{NDF}$ : 8.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -671.112+/-1299.697  $\chi^2/\text{NDF}$ : 4.2/7

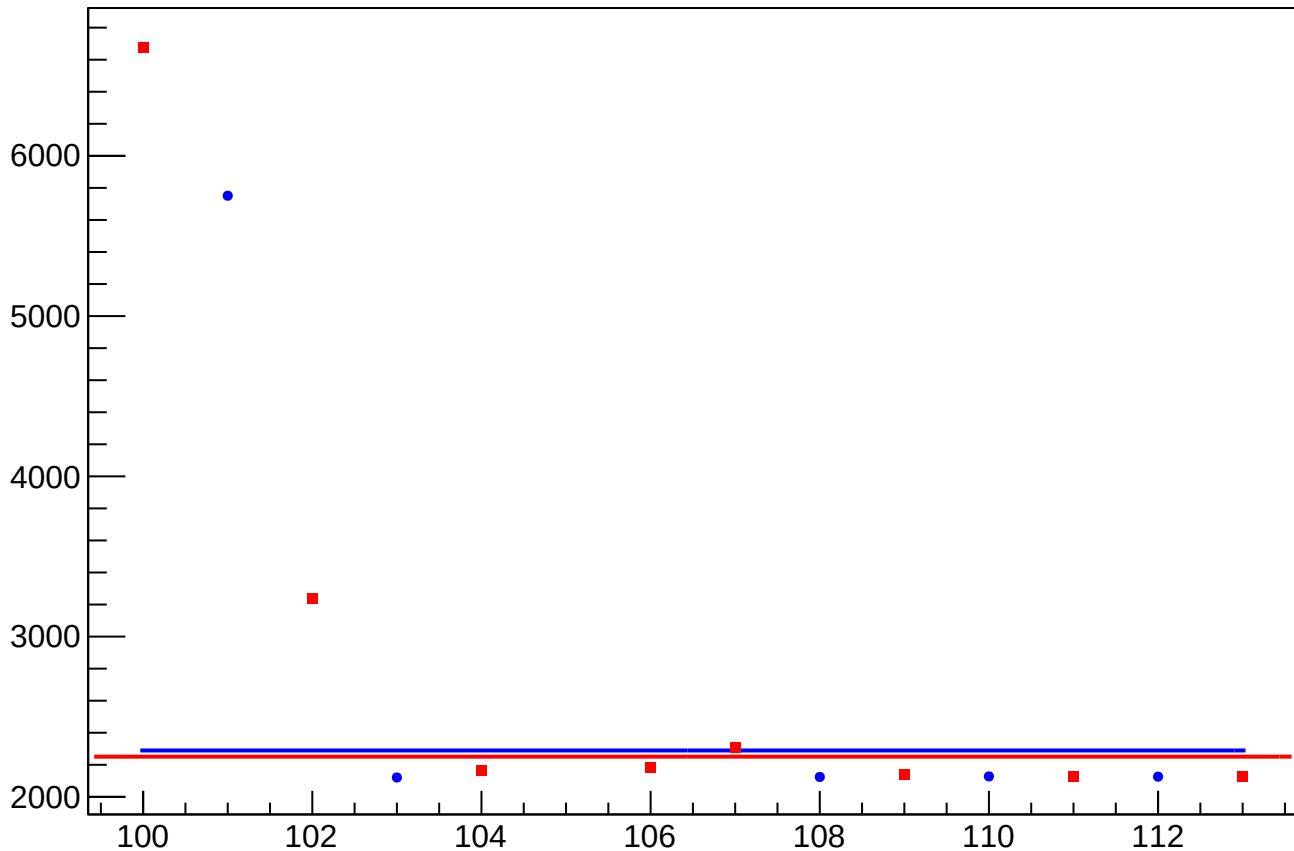
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 256.717+/-986.759  $\chi^2/\text{NDF}$ : 14.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 2289.409 $\pm$ 1.072  $\chi^2$ /NDF: 497723.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2250.880 $\pm$ 0.919  $\chi^2$ /NDF: 160227.3/7

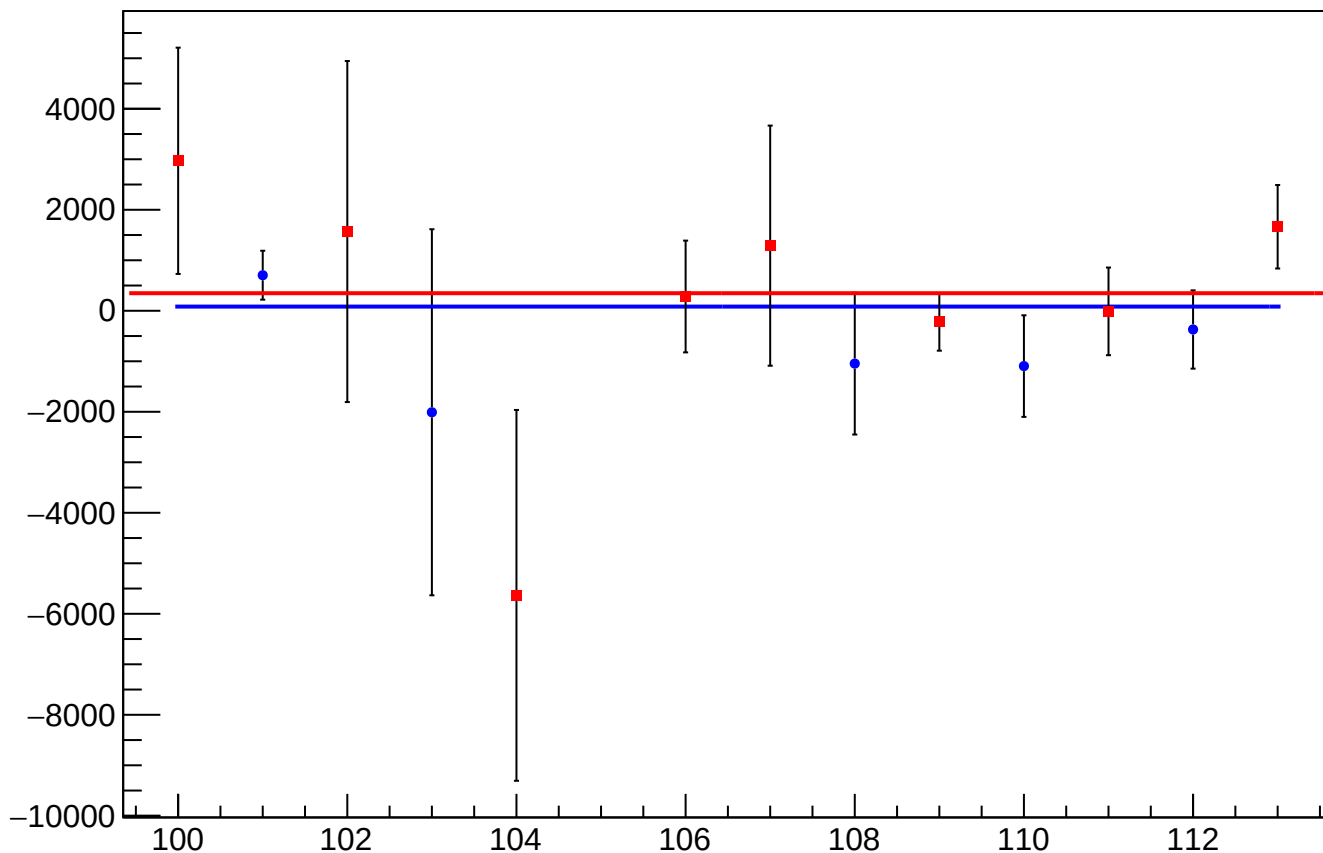
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2267.200 $\pm$ 0.698  $\chi^2$ /NDF: 658695.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_correction\_mean vs Slug



Right In: 82.900+/-365.135  $\chi^2/\text{NDF}$ : 4.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 347.886+/-372.050  $\chi^2/\text{NDF}$ : 8.0/7

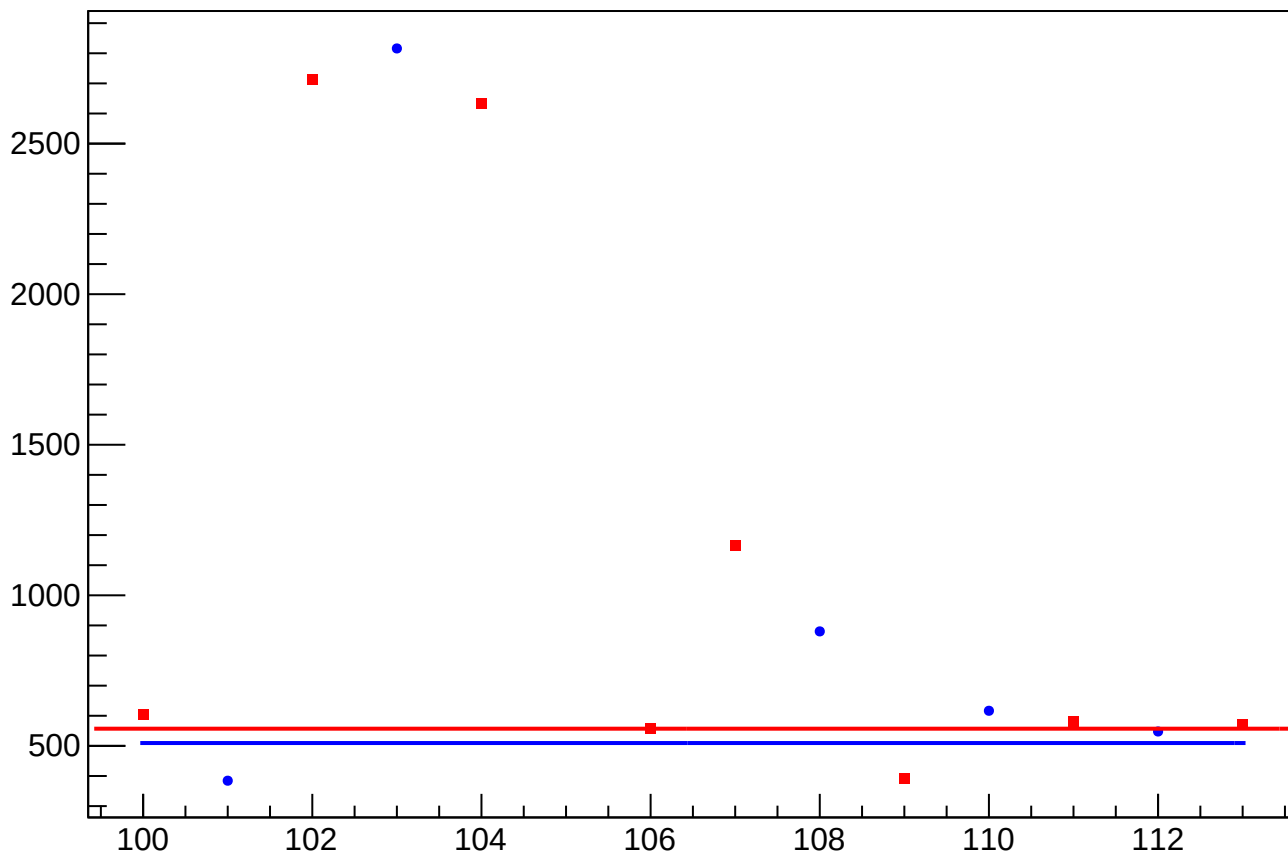
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 212.908+/-260.600  $\chi^2/\text{NDF}$ : 12.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_correction\_rms vs Slug



Right In: 509.444 $\pm$ 0.258  $\chi^2$ /NDF: 1110438.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 557.076 $\pm$ 0.263  $\chi^2$ /NDF: 1757980.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

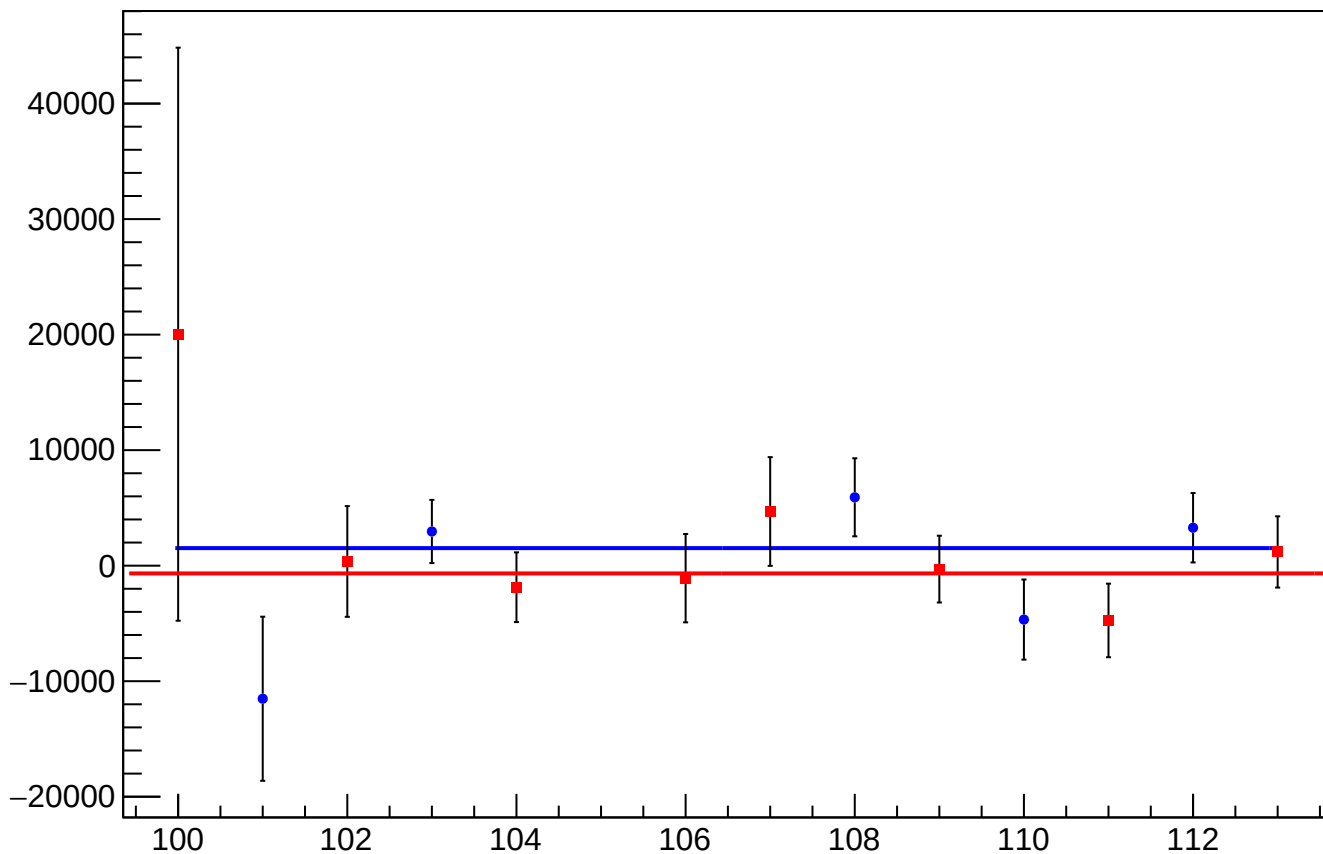
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 532.813 $\pm$ 0.184  $\chi^2$ /NDF: 2885116.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



eigen\_dit\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 1519.333+/-1516.153  $\chi^2/\text{NDF}$ : 8.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -671.117+/-1299.697  $\chi^2/\text{NDF}$ : 4.2/7

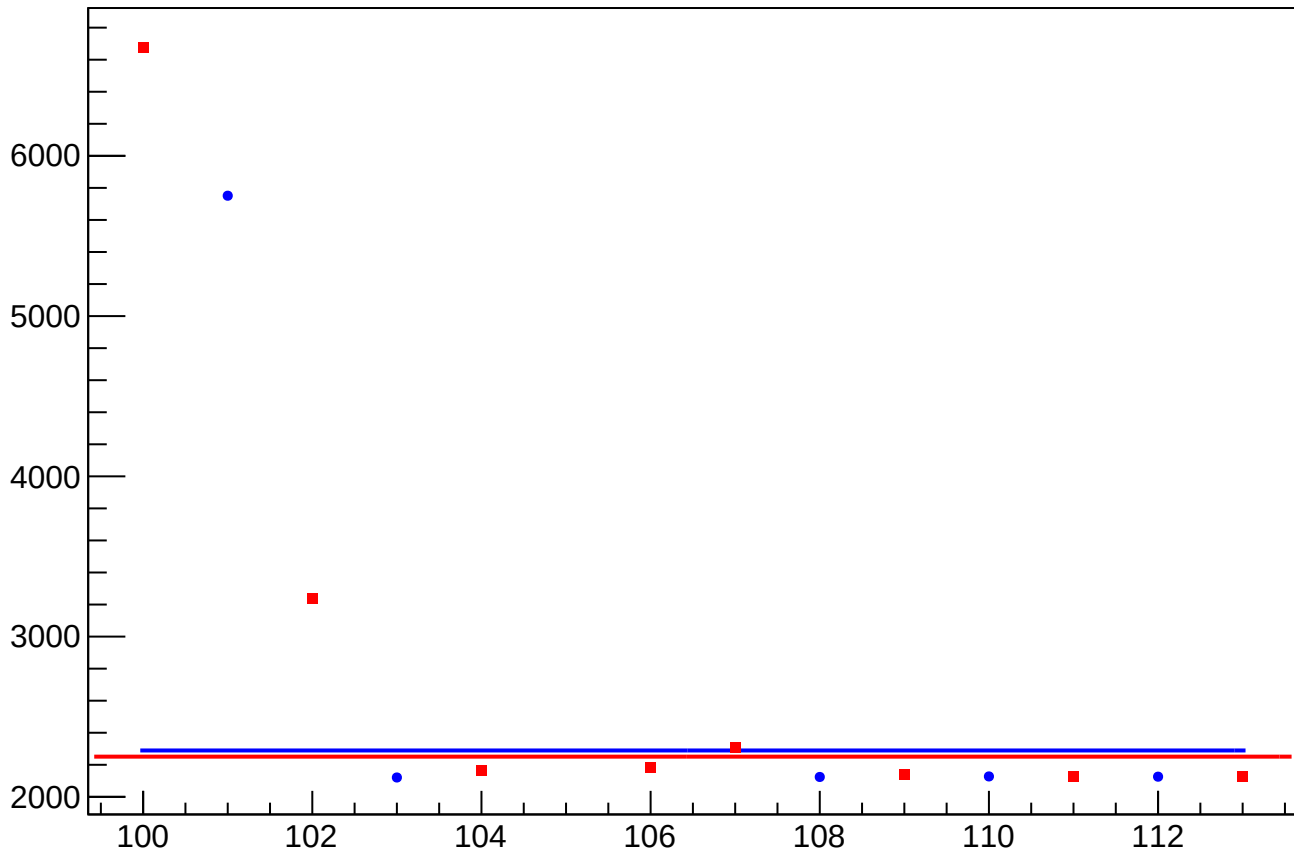
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 256.716+/-986.759  $\chi^2/\text{NDF}$ : 14.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 2289.408 $\pm$ 1.072  $\chi^2$ /NDF: 497723.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2250.880 $\pm$ 0.919  $\chi^2$ /NDF: 160226.9/7

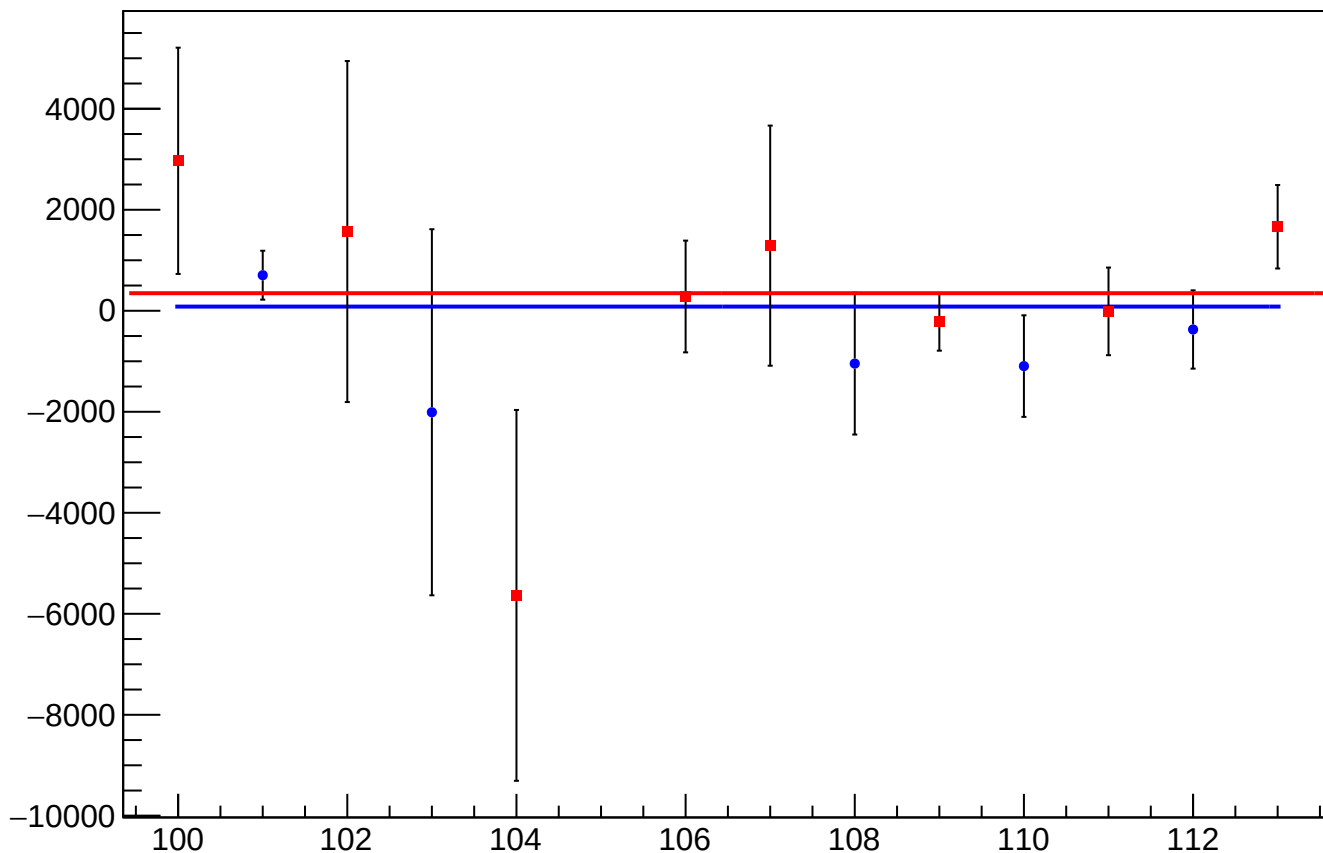
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2267.200 $\pm$ 0.698  $\chi^2$ /NDF: 658695.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 82.898+/-365.134  $\chi^2/\text{NDF}$ : 4.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 347.883+/-372.047  $\chi^2/\text{NDF}$ : 8.0/7

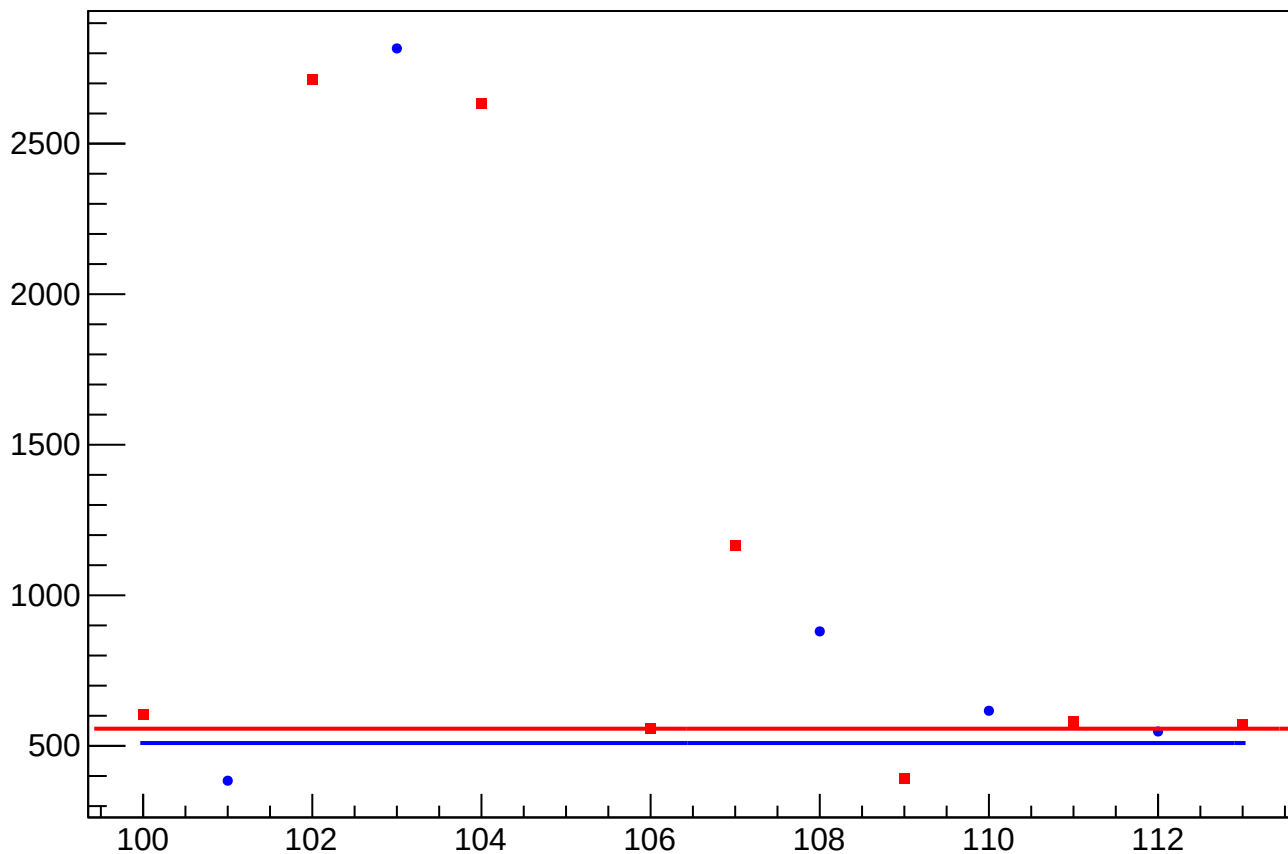
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 212.906+/-260.599  $\chi^2/\text{NDF}$ : 12.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 509.443 $\pm$ 0.258  $\chi^2$ /NDF: 1110434.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 557.072 $\pm$ 0.263  $\chi^2$ /NDF: 1757995.0/7

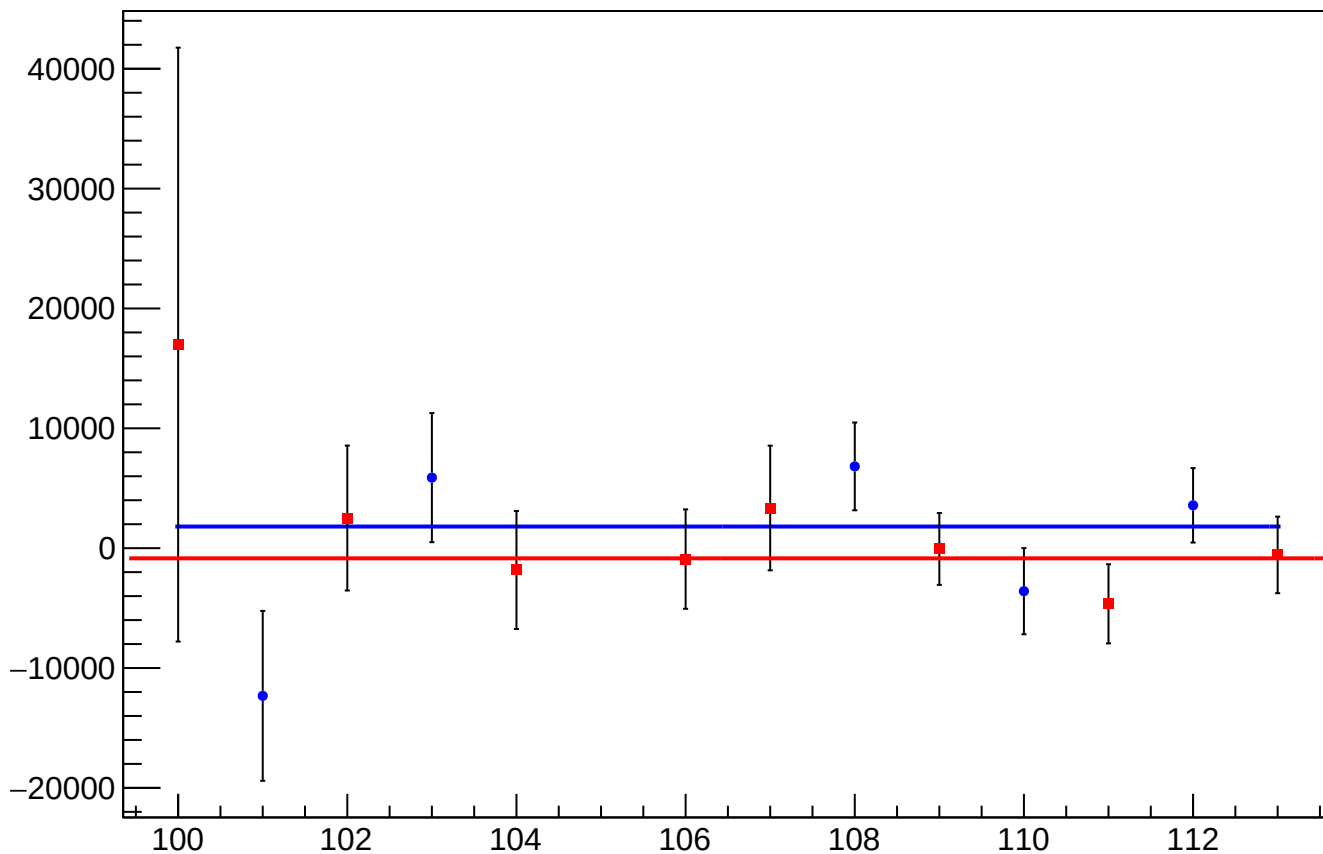
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 532.811 $\pm$ 0.184  $\chi^2$ /NDF: 2885125.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 1805.956+/-1795.984  $\chi^2/\text{NDF}$ : 9.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -849.131+/-1464.043  $\chi^2/\text{NDF}$ : 2.9/7

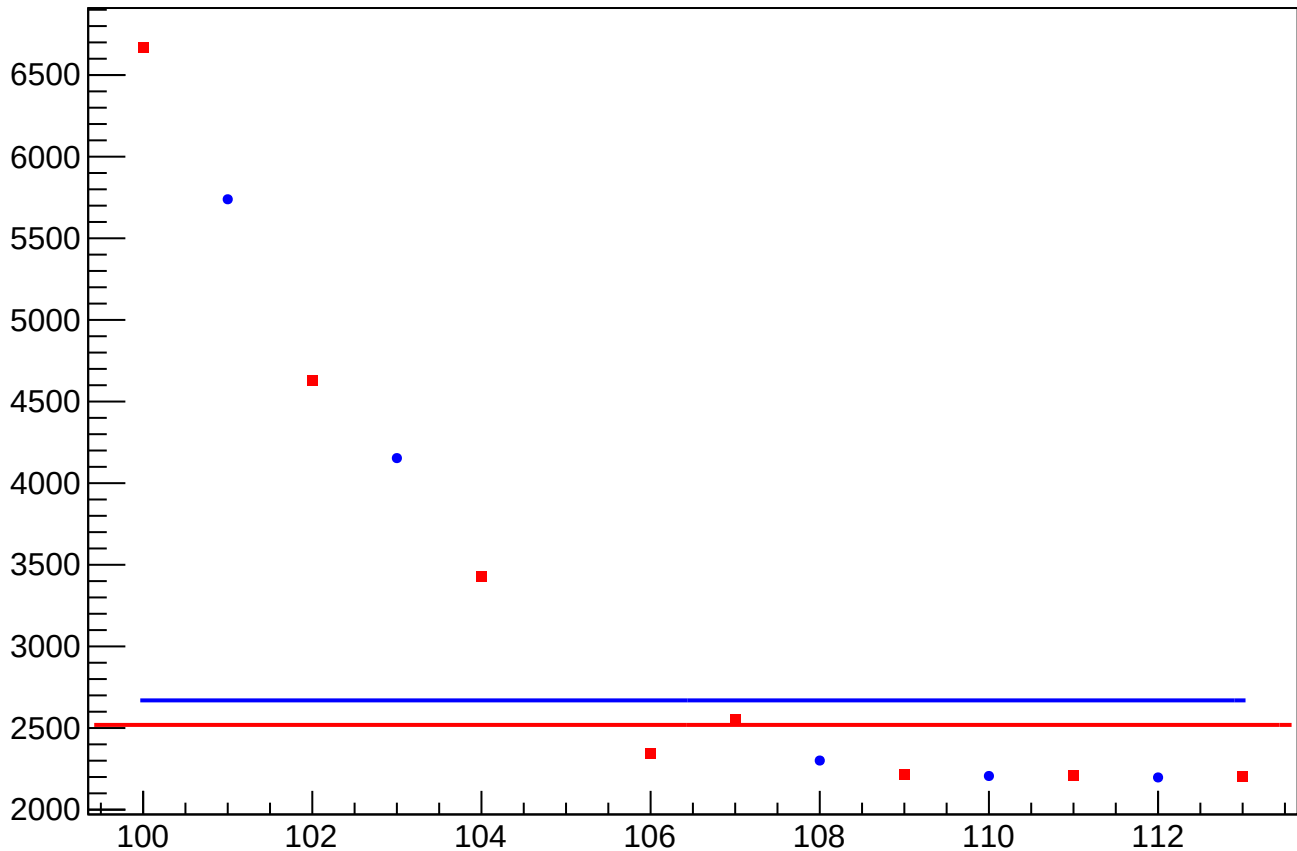
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 210.842+/-1134.777  $\chi^2/\text{NDF}$ : 13.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 2669.385+/-1.270  $\chi^2/\text{NDF}$ : 626651.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

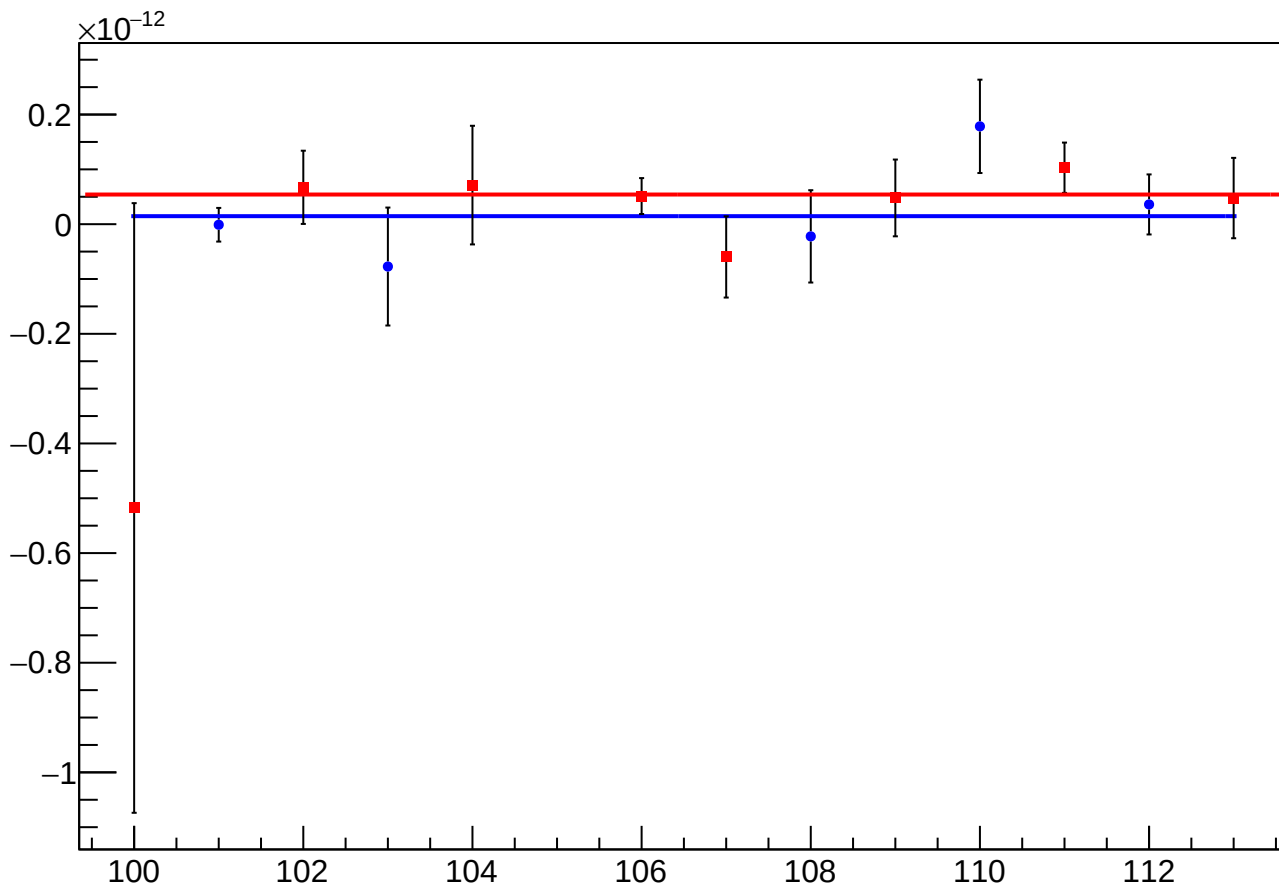
Right Out: 2519.160+/-1.035  $\chi^2/\text{NDF}$ : 428931.0/7

All: 2579.133+/-0.802  $\chi^2/\text{NDF}$ : 1063989.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.6/7

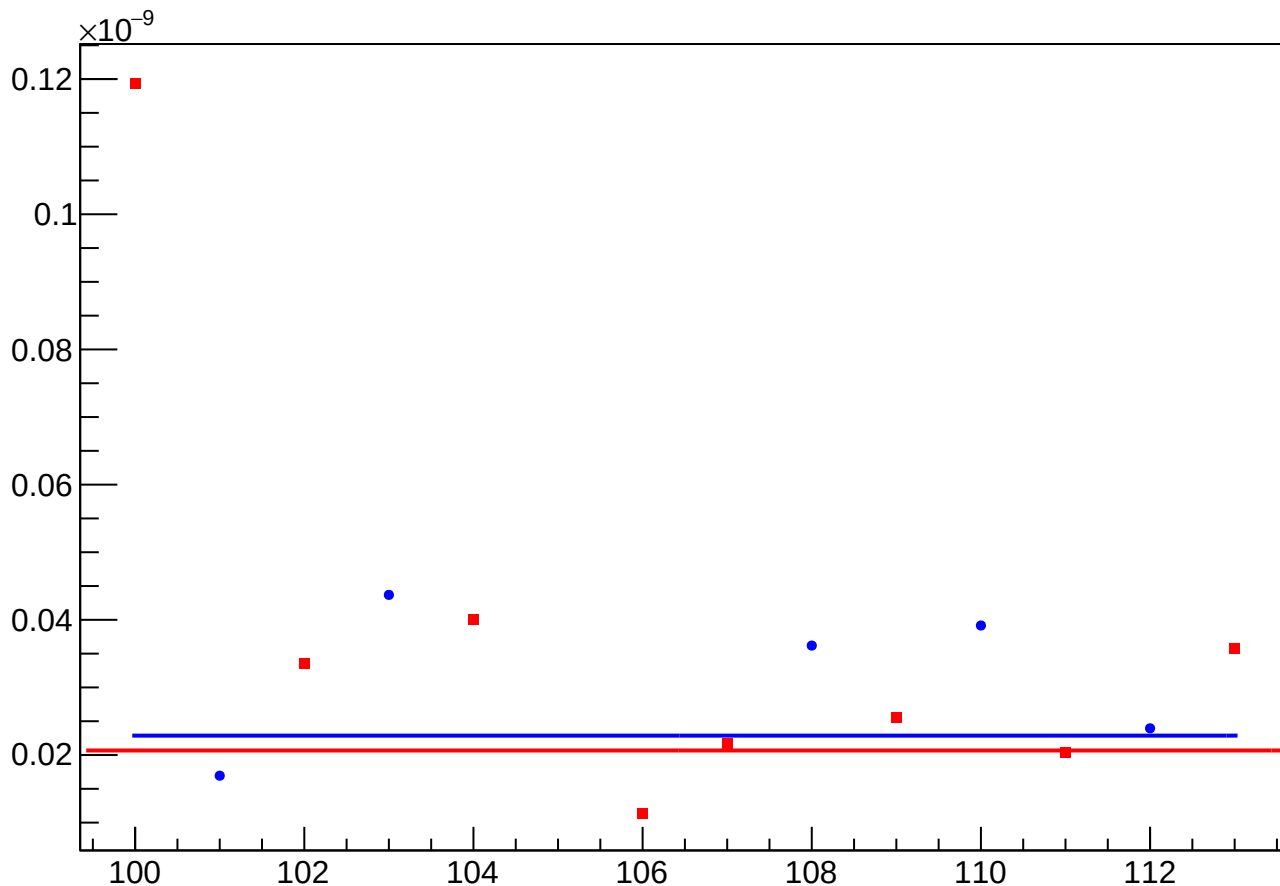
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 273503.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 458597.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

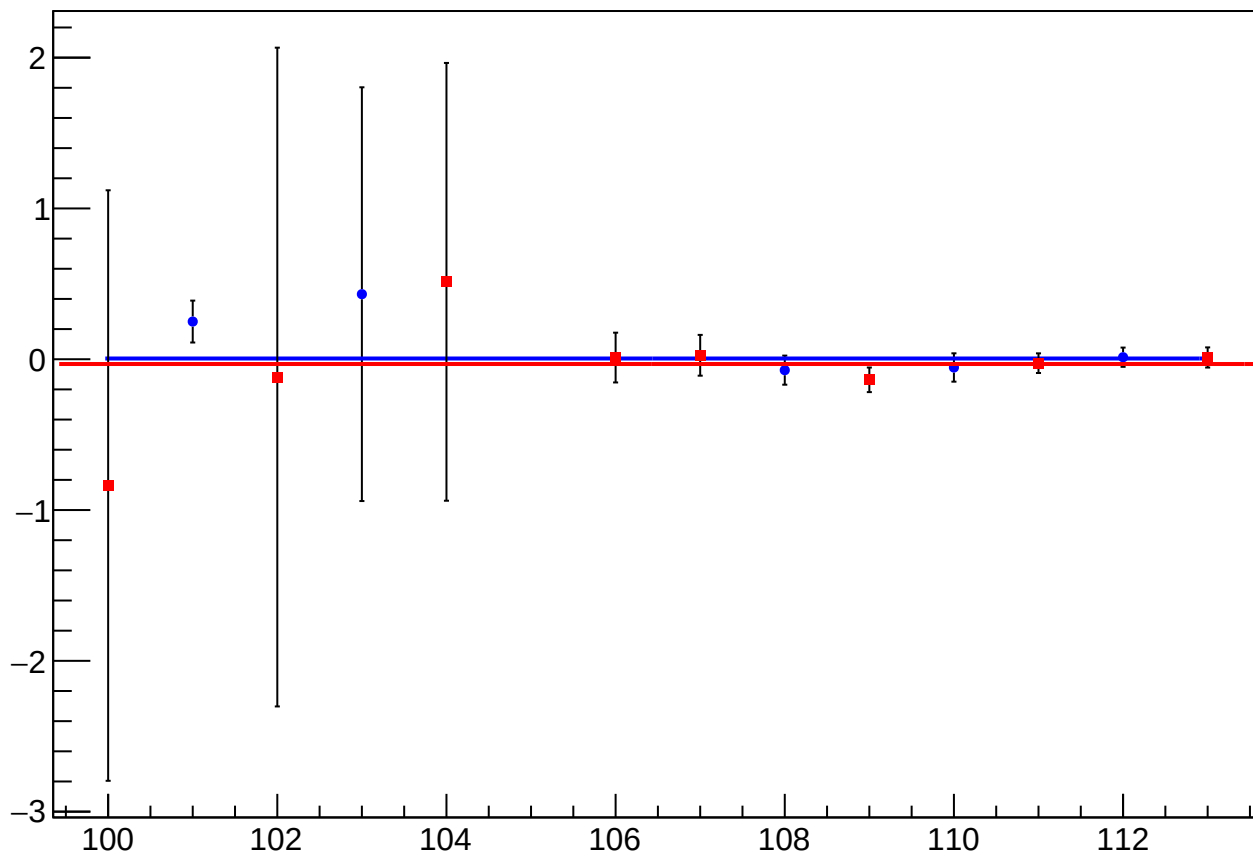
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 741726.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_avg\_at1lr\_avg\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.005 $\pm$ 0.044  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.032 $\pm$ 0.038  $\chi^2$ /NDF: 2.6/7

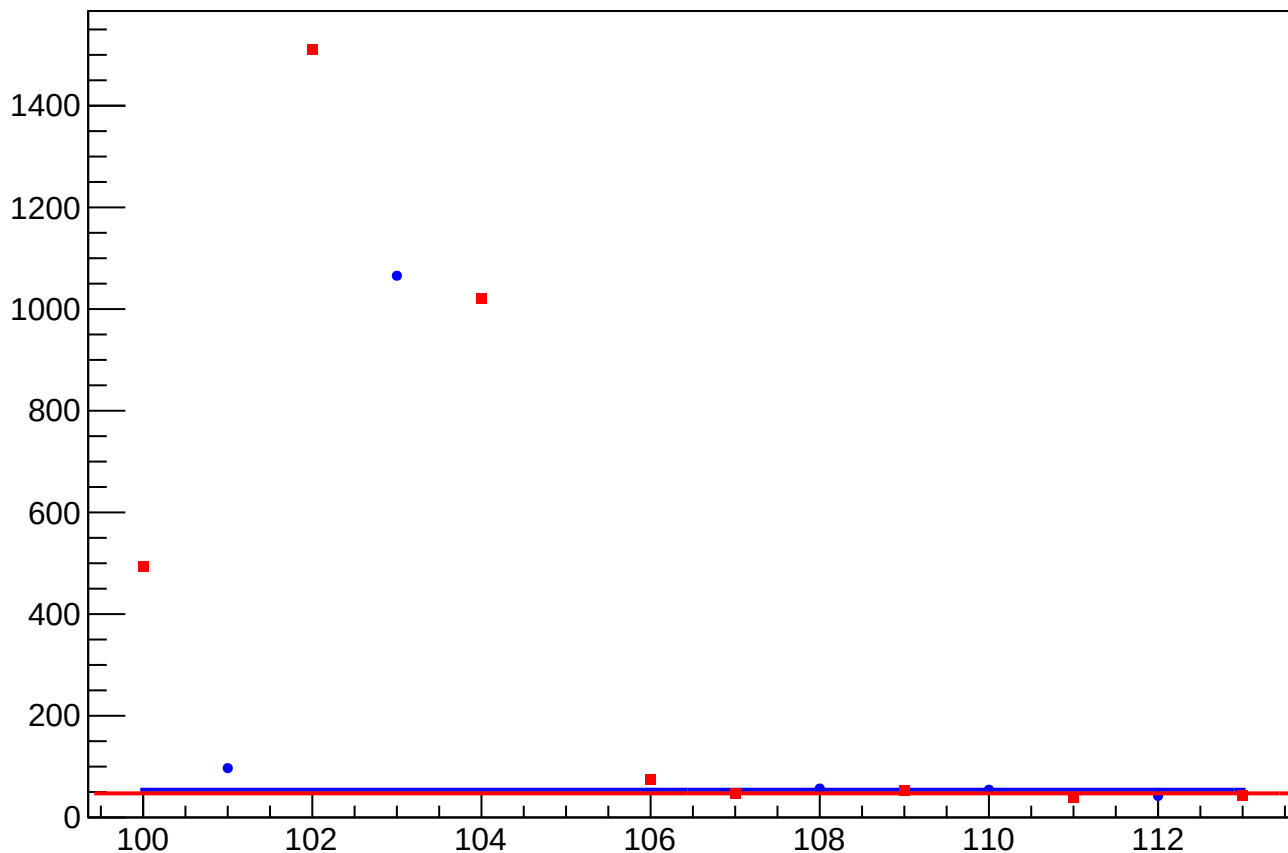
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.016 $\pm$ 0.029  $\chi^2$ /NDF: 7.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 54.535 $\pm$ 0.031  $\chi^2$ /NDF: 1347224.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 47.377 $\pm$ 0.027  $\chi^2$ /NDF: 2002611.4/7

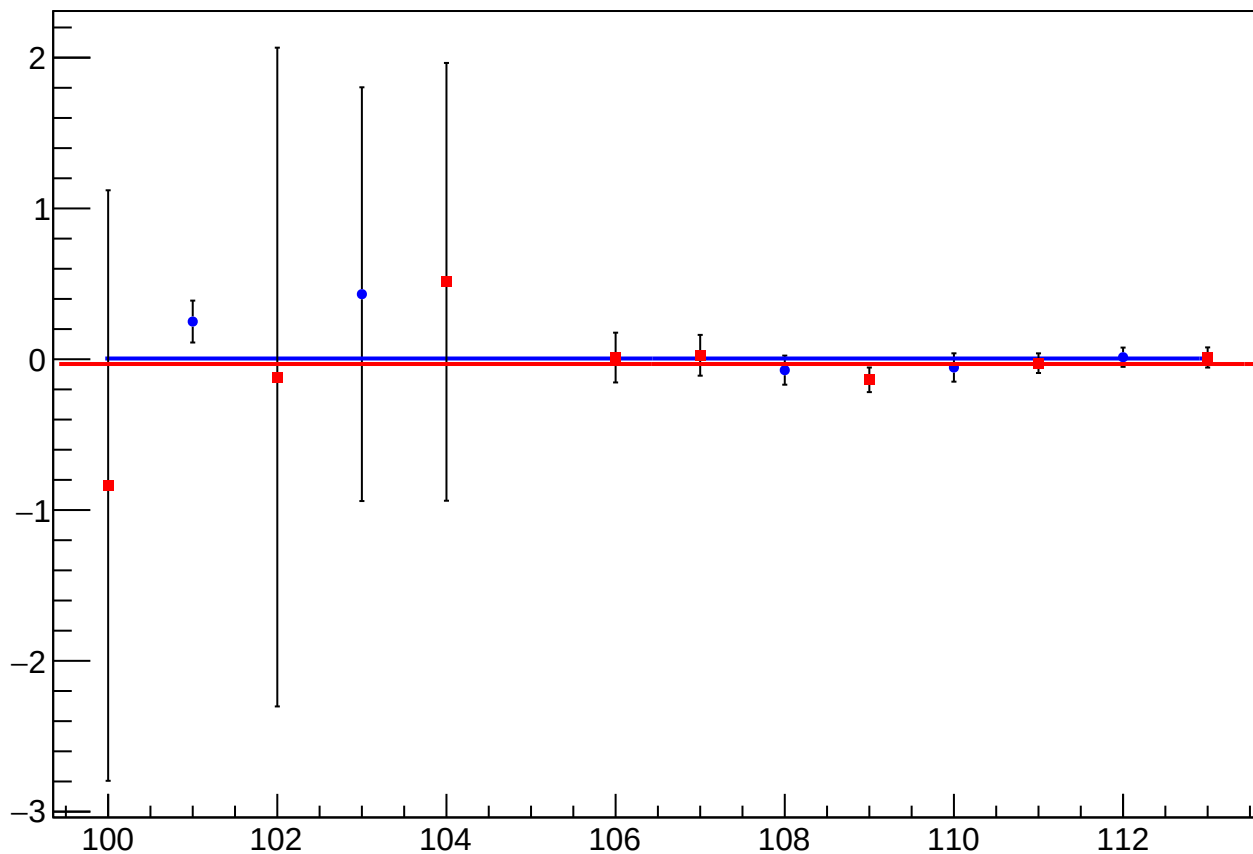
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 50.418 $\pm$ 0.020  $\chi^2$ /NDF: 3380400.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.005 $\pm$ 0.044  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.032 $\pm$ 0.038  $\chi^2$ /NDF: 2.6/7

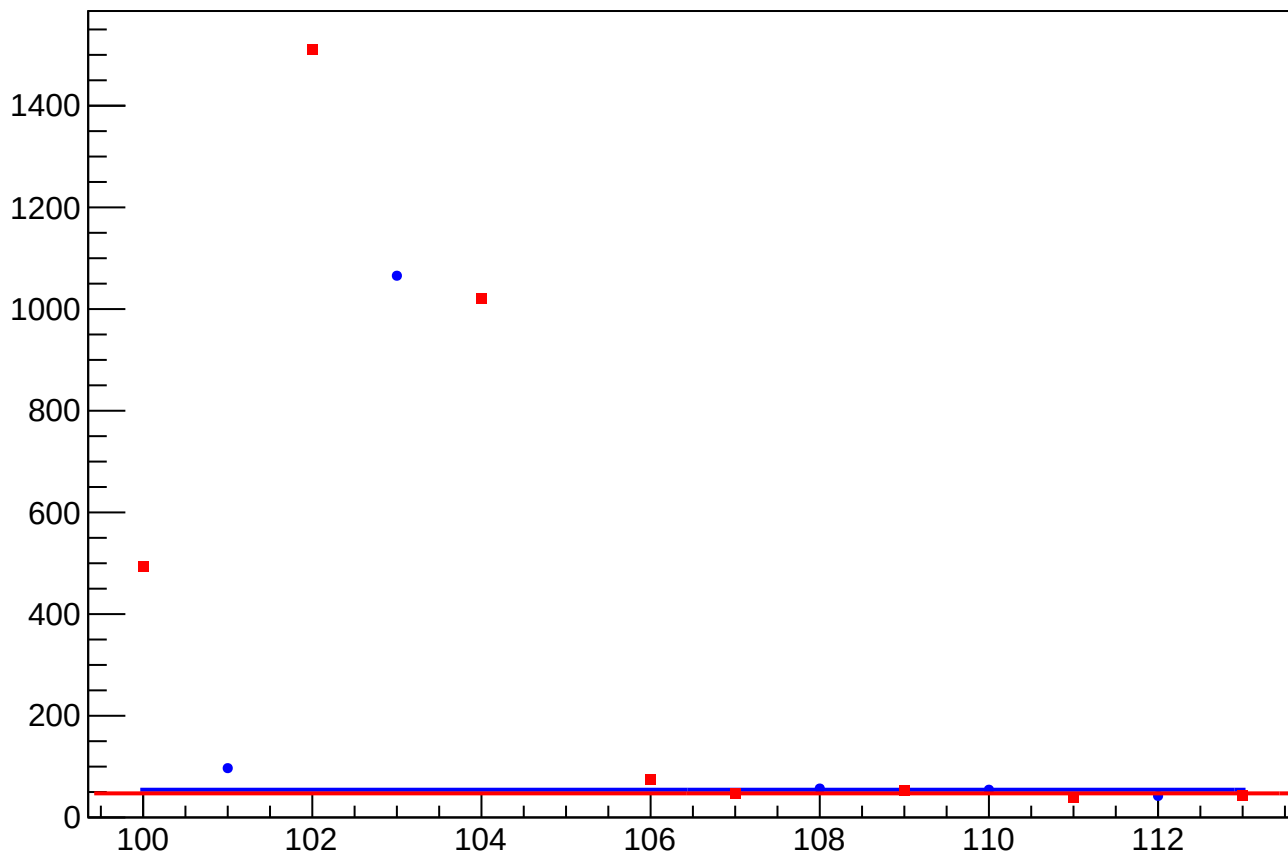
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.016 $\pm$ 0.029  $\chi^2$ /NDF: 7.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 54.535 $\pm$ 0.031  $\chi^2$ /NDF: 1347224.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 47.377 $\pm$ 0.027  $\chi^2$ /NDF: 2002611.4/7

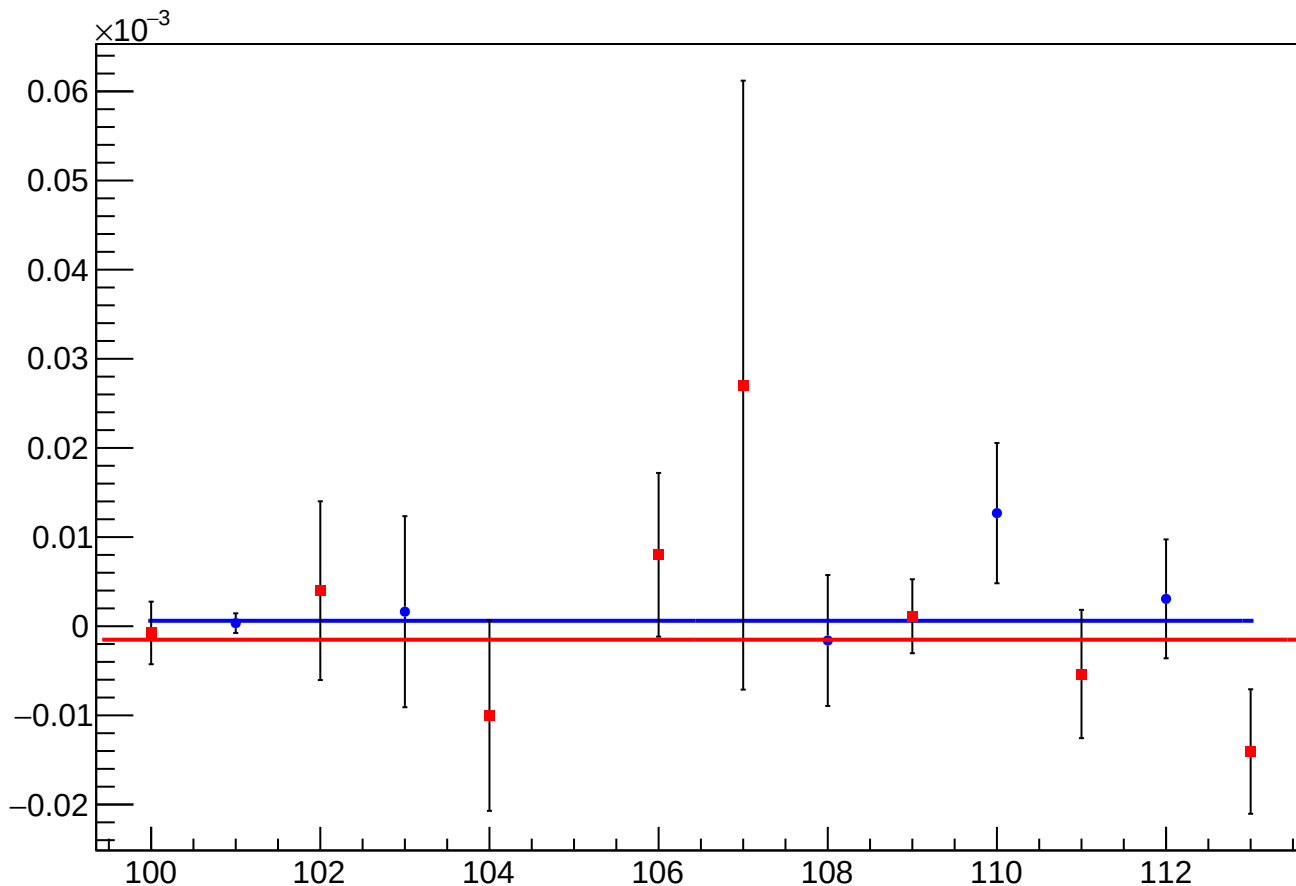
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 50.418 $\pm$ 0.020  $\chi^2$ /NDF: 3380400.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.7/7

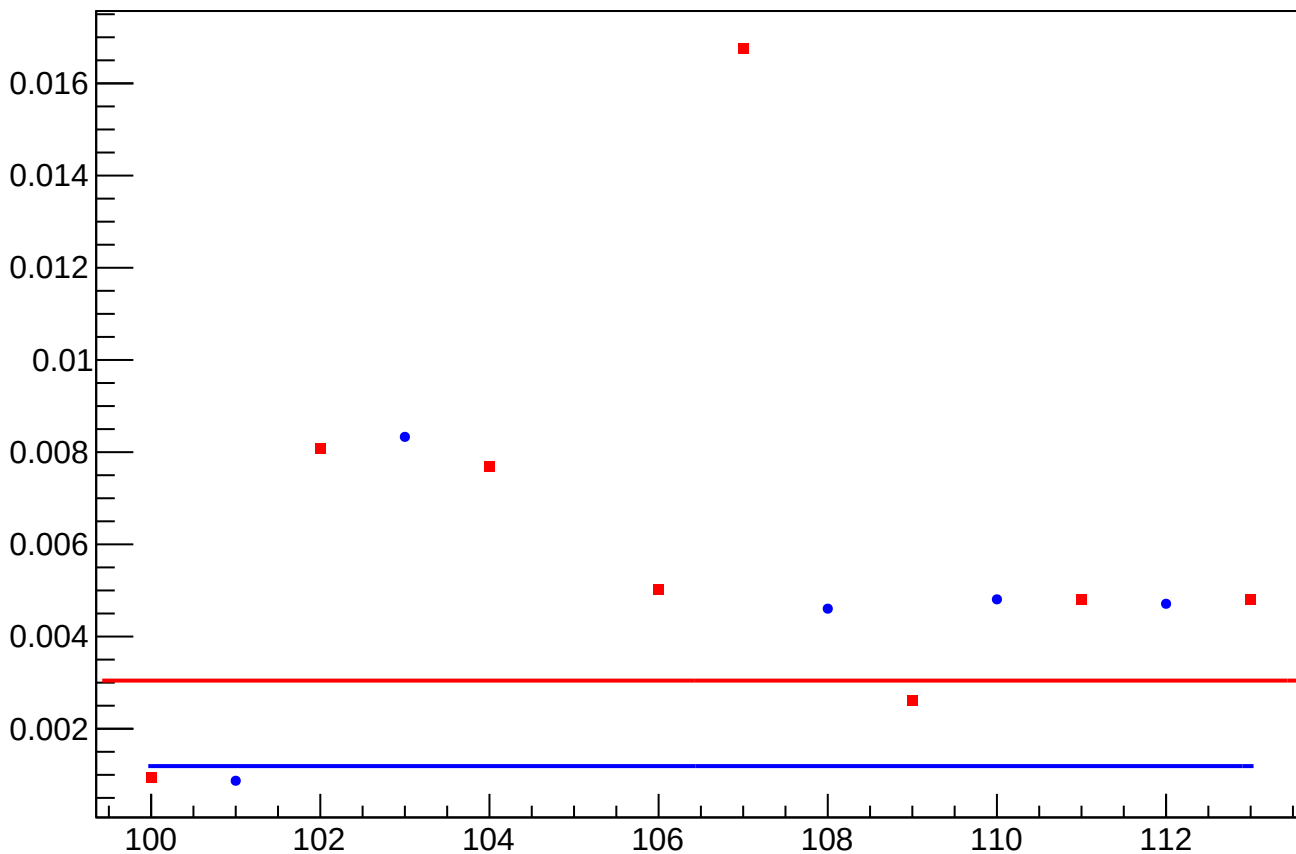
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2468820.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2280894.7/7

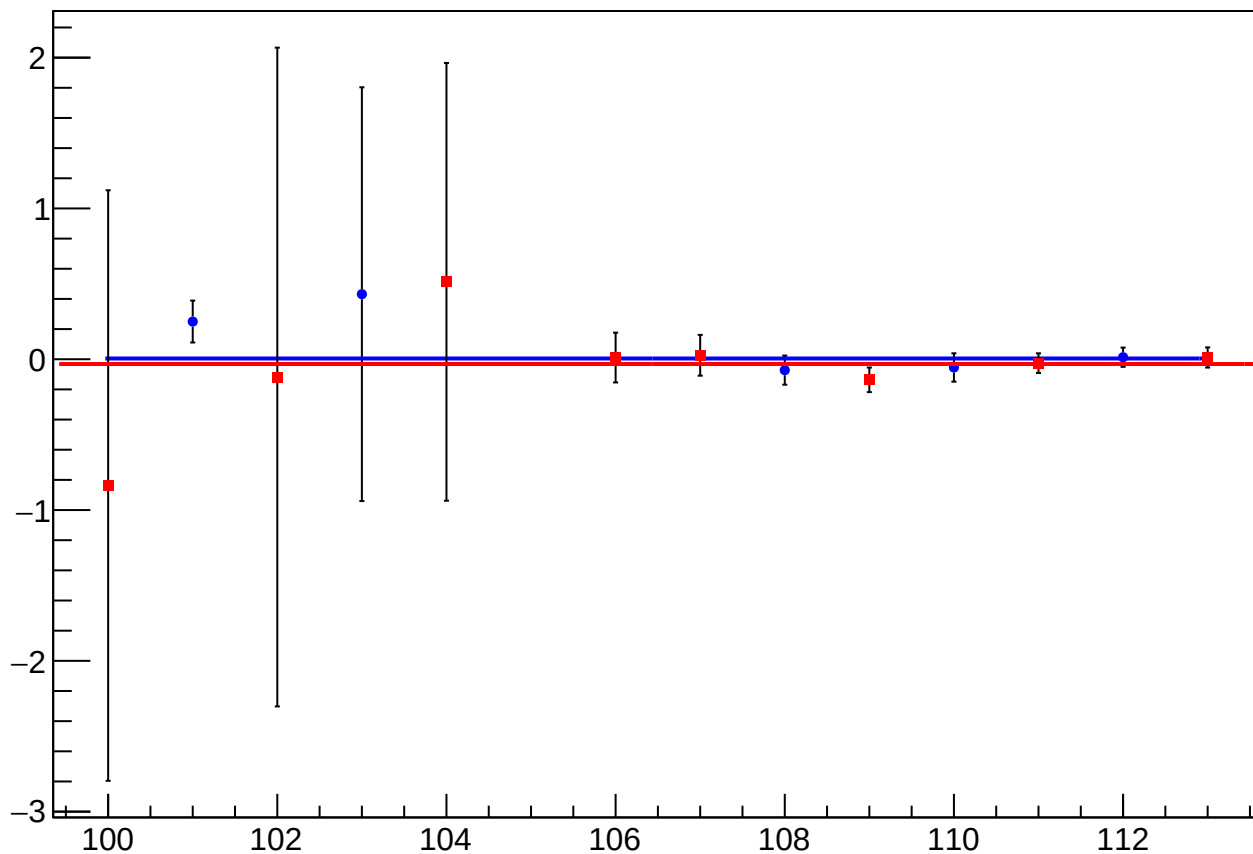
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 5922178.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.005 $\pm$ 0.044  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.032 $\pm$ 0.038  $\chi^2$ /NDF: 2.6/7

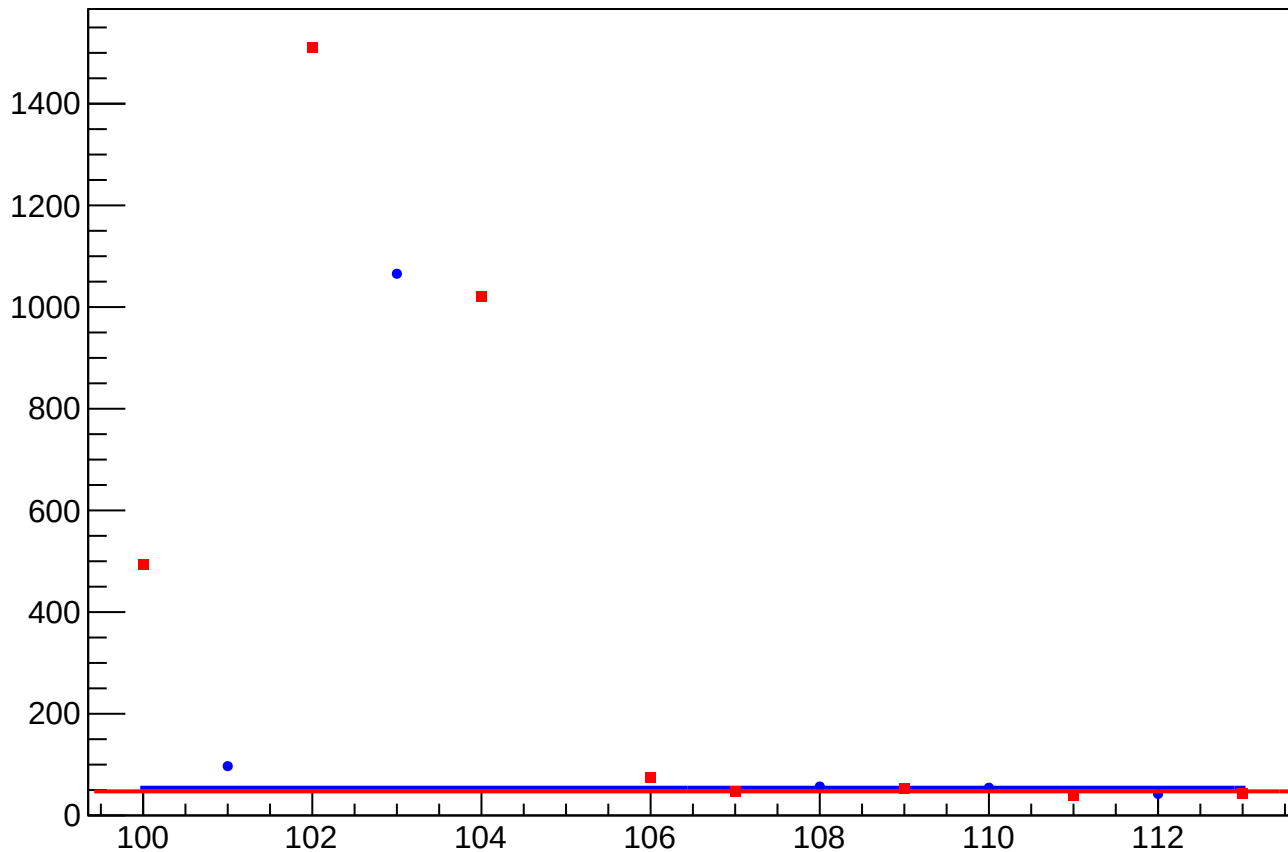
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.016 $\pm$ 0.029  $\chi^2$ /NDF: 7.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 54.536+/-0.031  $\chi^2/\text{NDF}$ : 1347210.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 47.377+/-0.027  $\chi^2/\text{NDF}$ : 2002608.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

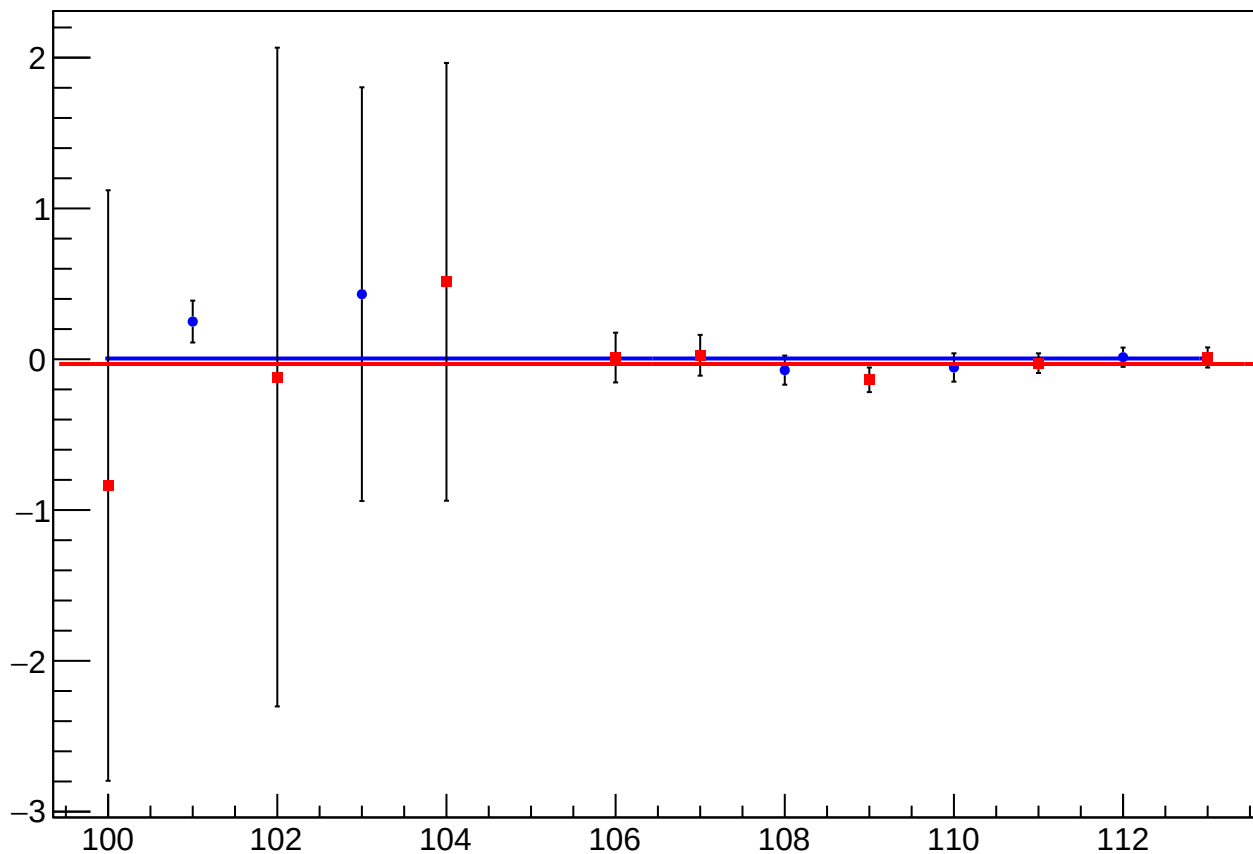
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 50.419+/-0.020  $\chi^2/\text{NDF}$ : 3380389.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.005 $\pm$ 0.044  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.032 $\pm$ 0.038  $\chi^2$ /NDF: 2.6/7

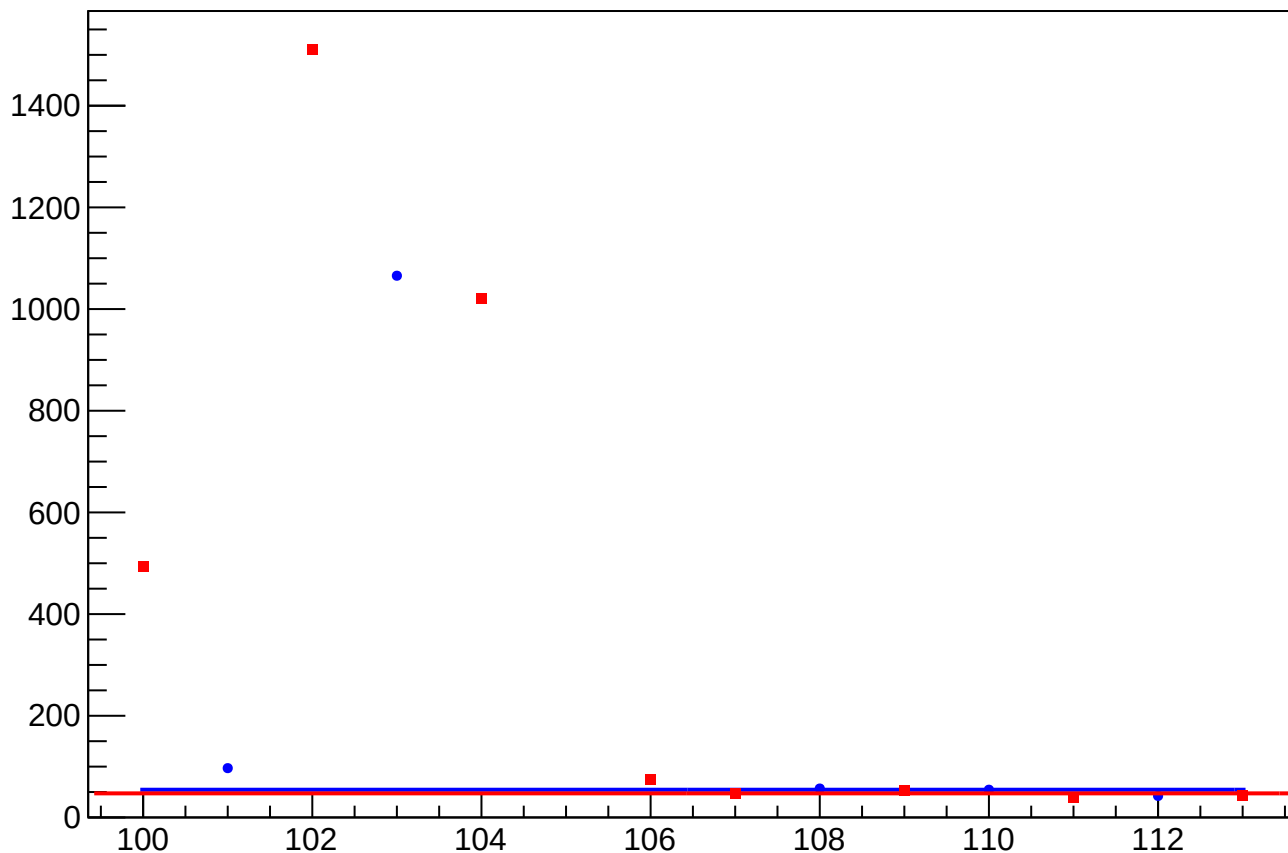
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.016 $\pm$ 0.029  $\chi^2$ /NDF: 7.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 54.536+/-0.031  $\chi^2/\text{NDF}$ : 1347210.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 47.377+/-0.027  $\chi^2/\text{NDF}$ : 2002608.7/7

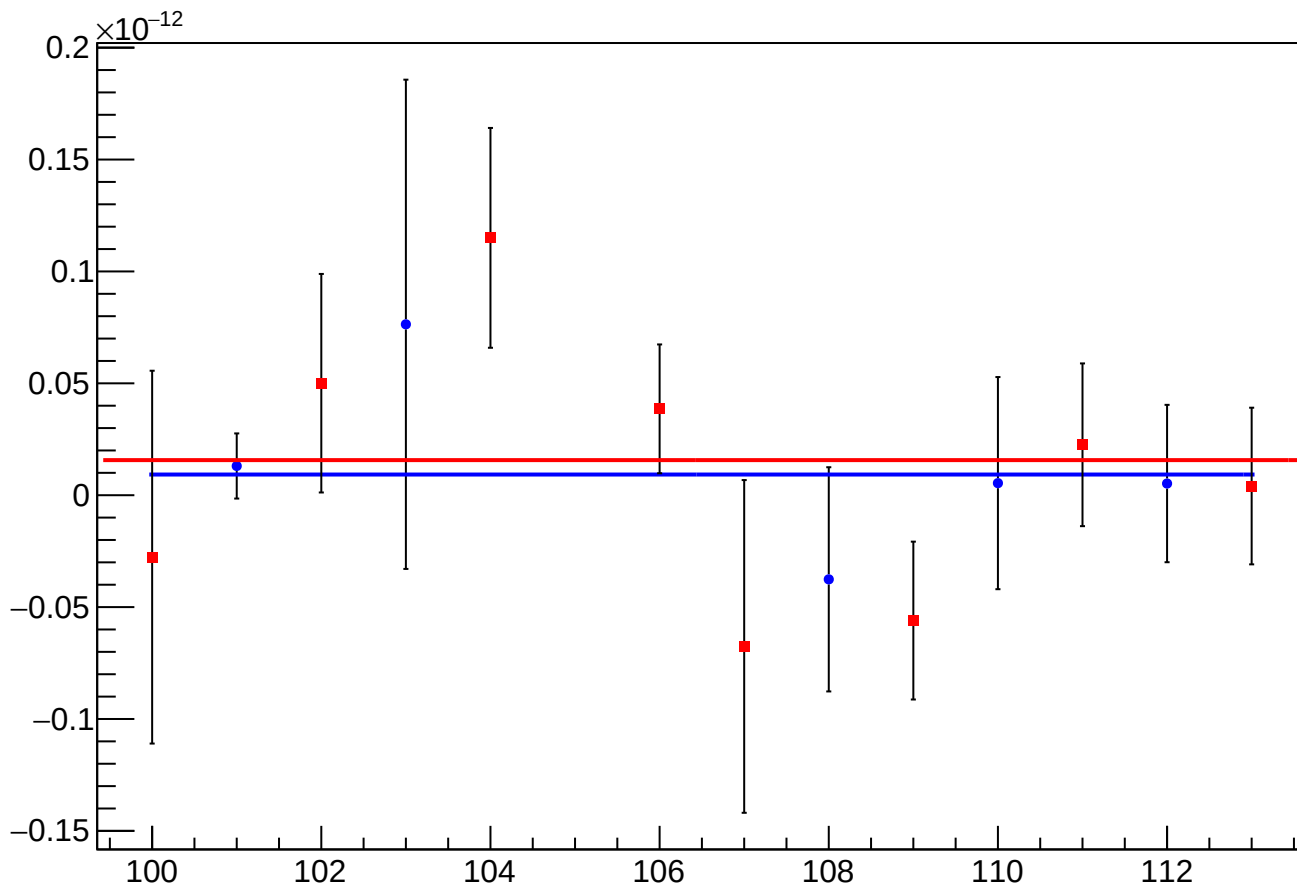
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 50.419+/-0.020  $\chi^2/\text{NDF}$ : 3380389.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.0/7

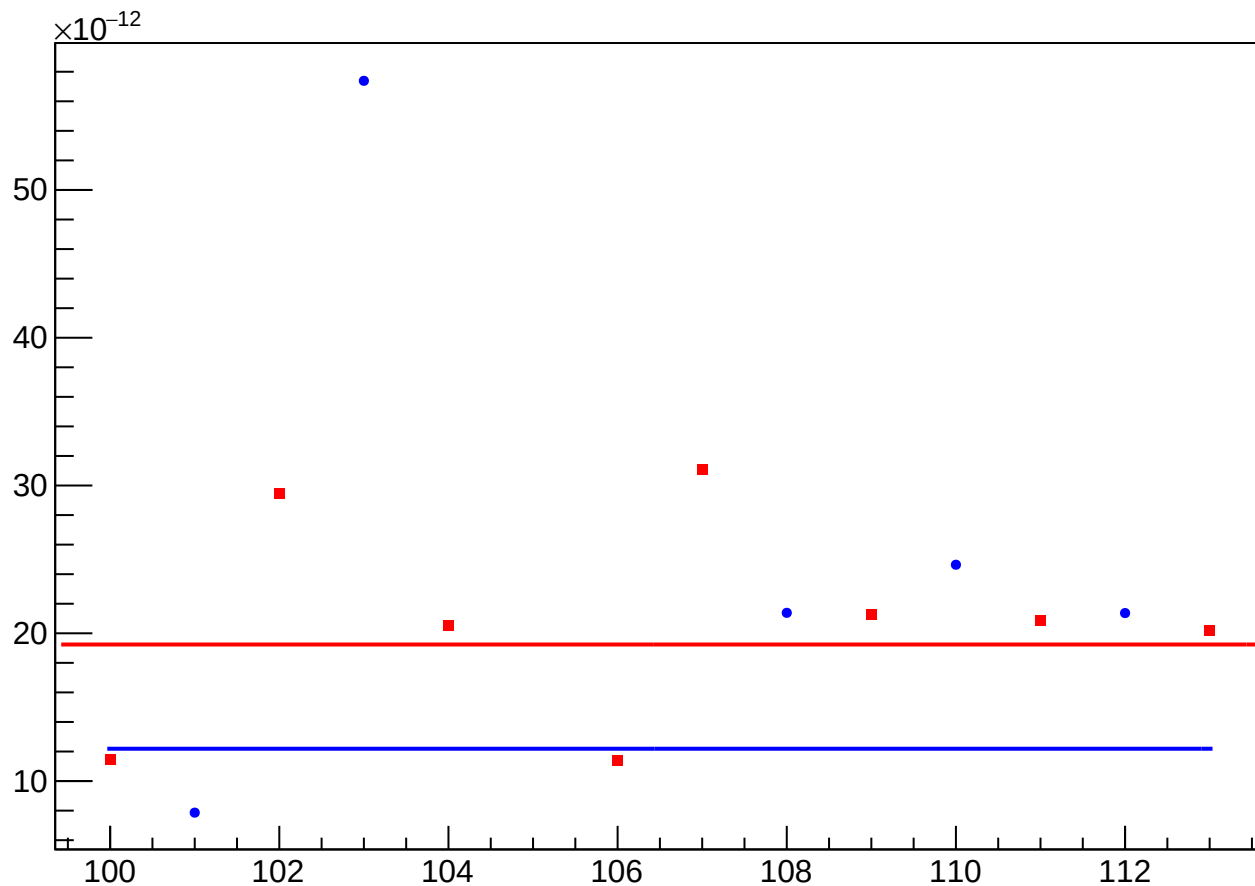
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 860182.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 318607.6/7

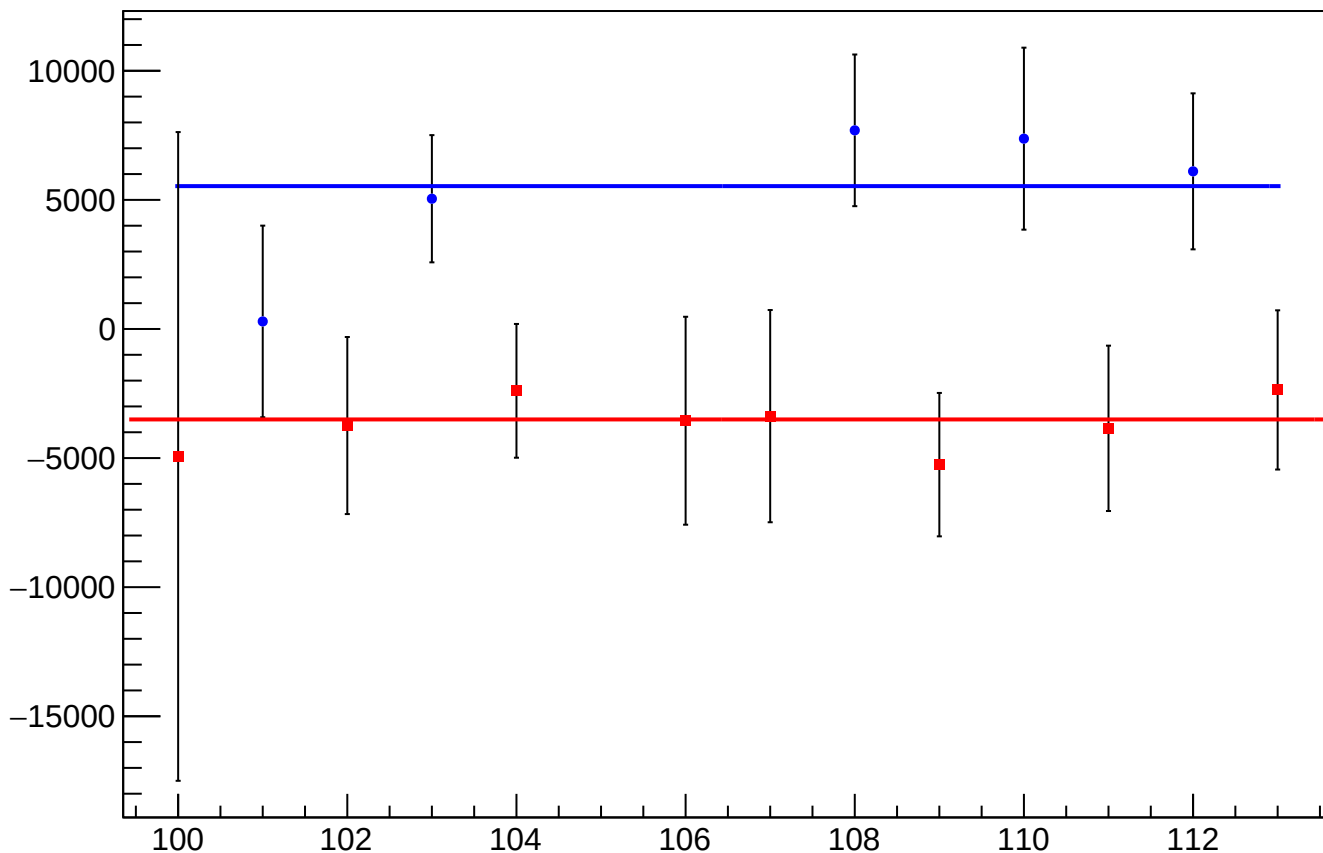
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1450774.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug



Right In: 5533.273+/-1356.633  $\chi^2/\text{NDF}$ : 2.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3503.706+/-1200.755  $\chi^2/\text{NDF}$ : 0.7/7

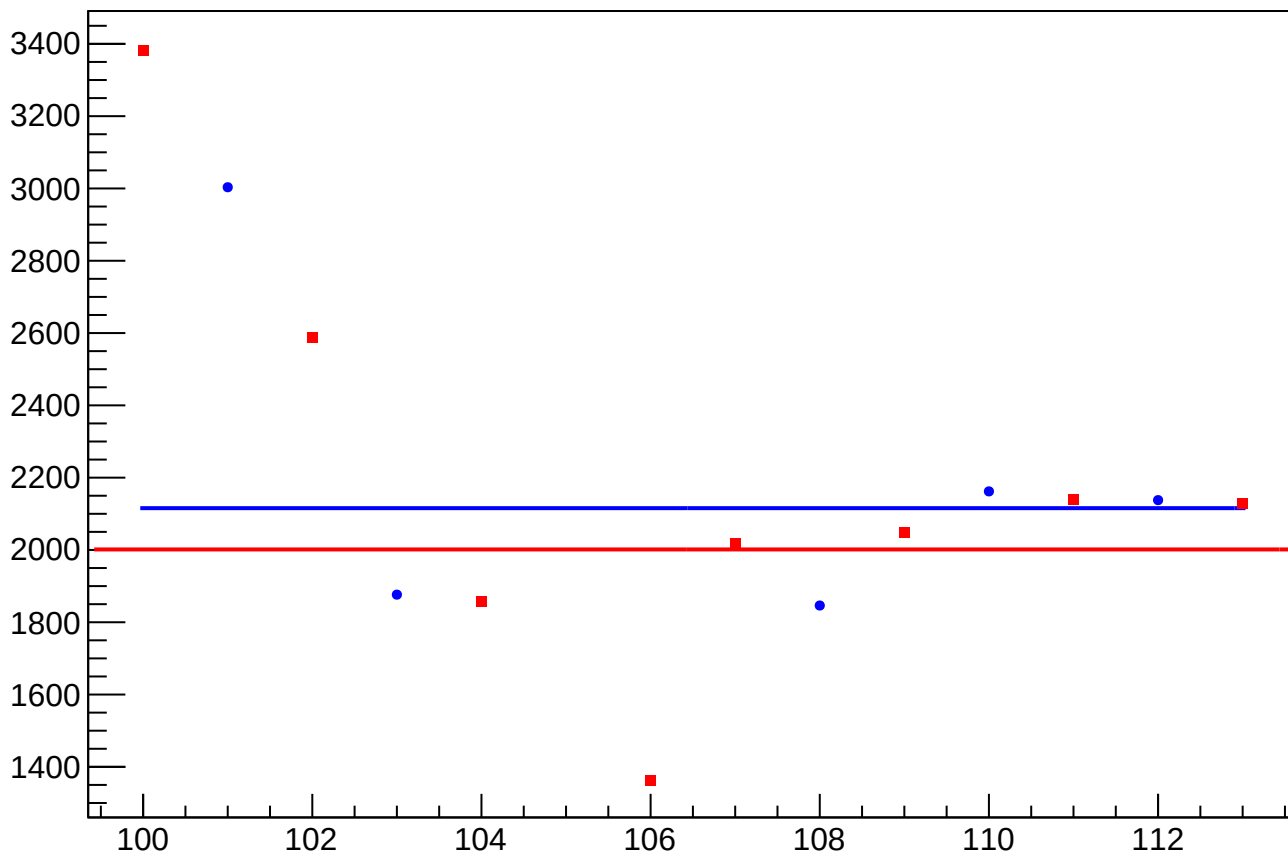
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 466.001+/-899.146  $\chi^2/\text{NDF}$ : 28.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 2115.636+/-0.959  $\chi^2/\text{NDF}$ : 150590.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

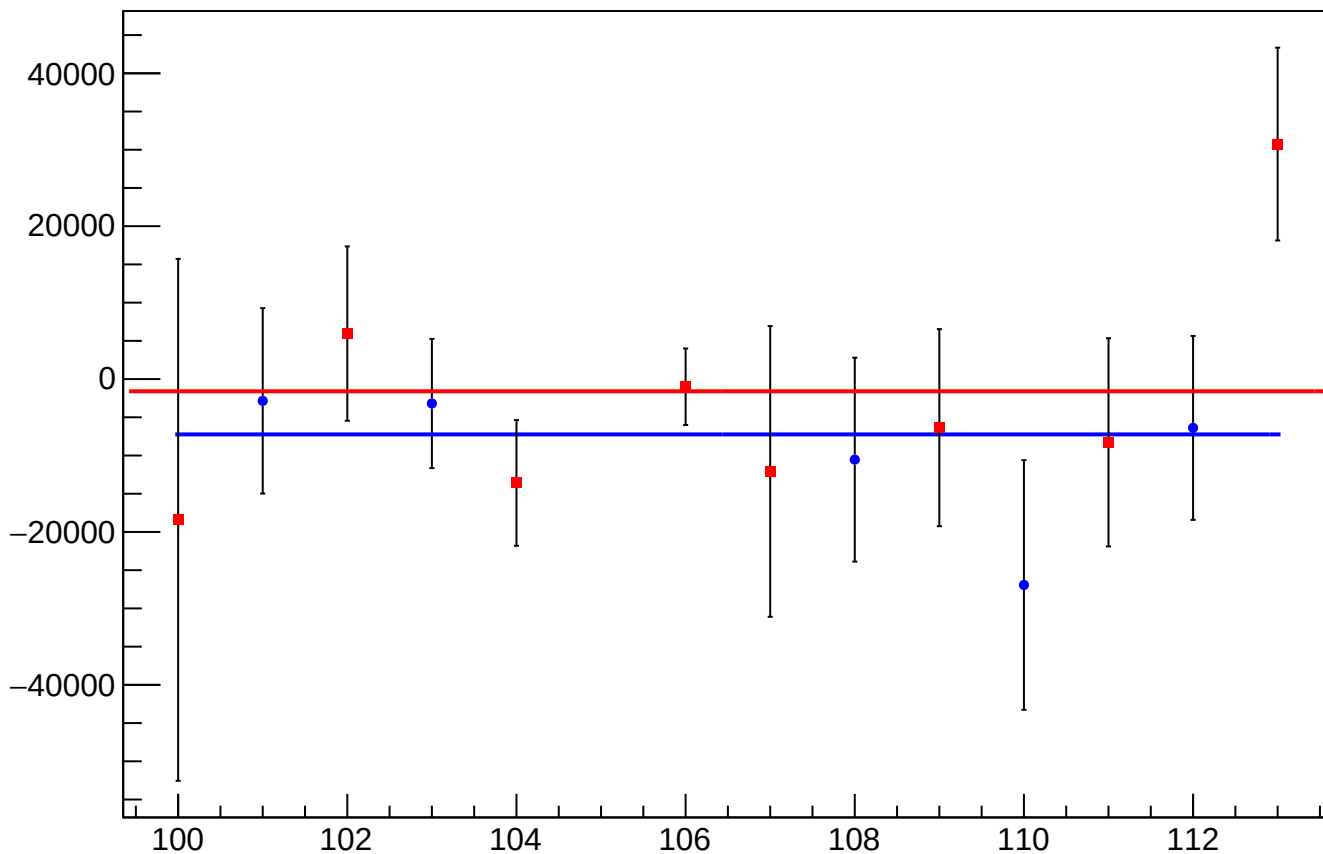
Right Out: 2001.430+/-0.820  $\chi^2/\text{NDF}$ : 187221.4/7

All: 2049.659+/-0.623  $\chi^2/\text{NDF}$ : 346000.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_reg\_correction\_mean vs Slug



Right In: -7238.617+/-5192.530  $\chi^2/\text{NDF}$ : 1.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1599.788+/-3454.324  $\chi^2/\text{NDF}$ : 10.1/7

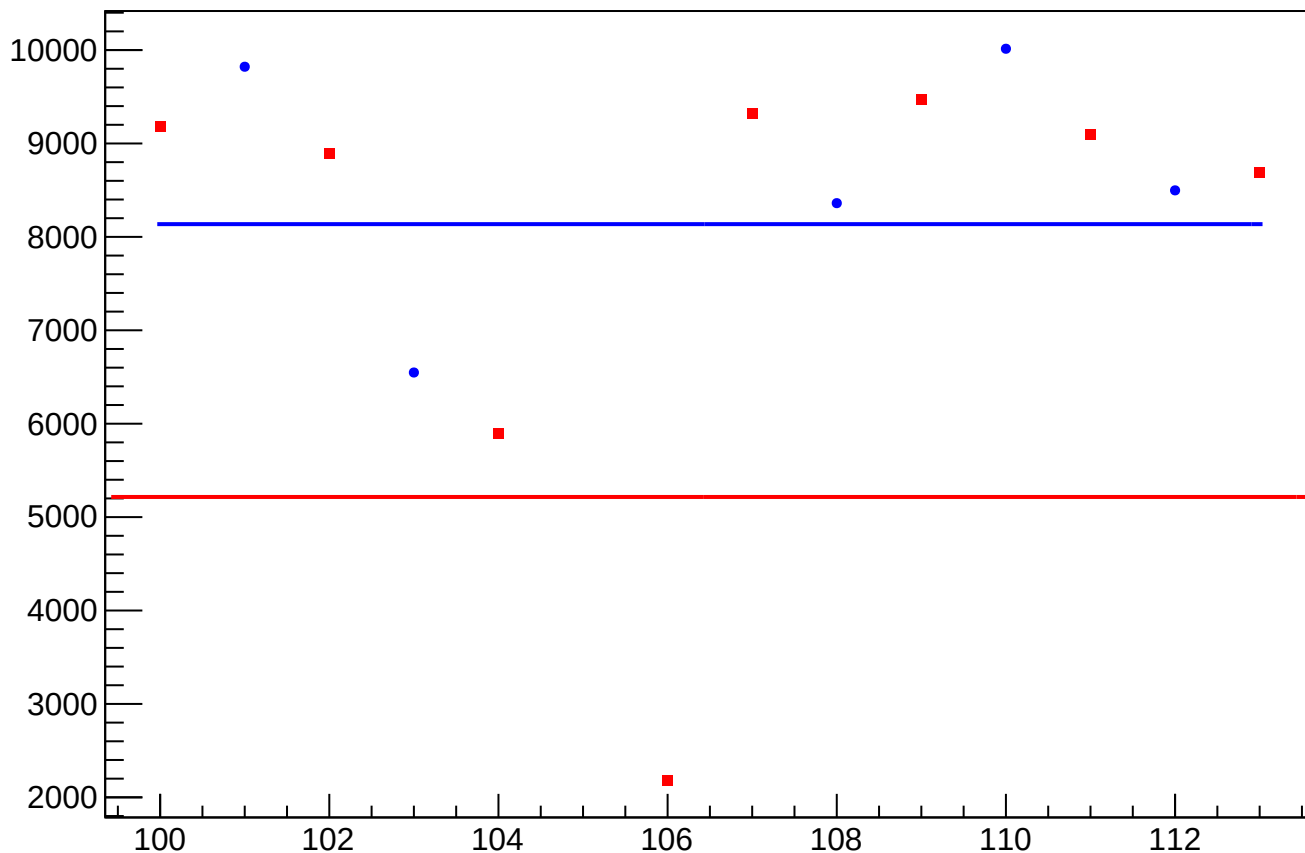
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3329.702+/-2876.052  $\chi^2/\text{NDF}$ : 12.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_reg\_correction\_rms vs Slug



Right In: 8136.414+/-3.672  $\chi^2/\text{NDF}$ : 138115.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5215.667+/-2.443  $\chi^2/\text{NDF}$ : 1610309.9/7

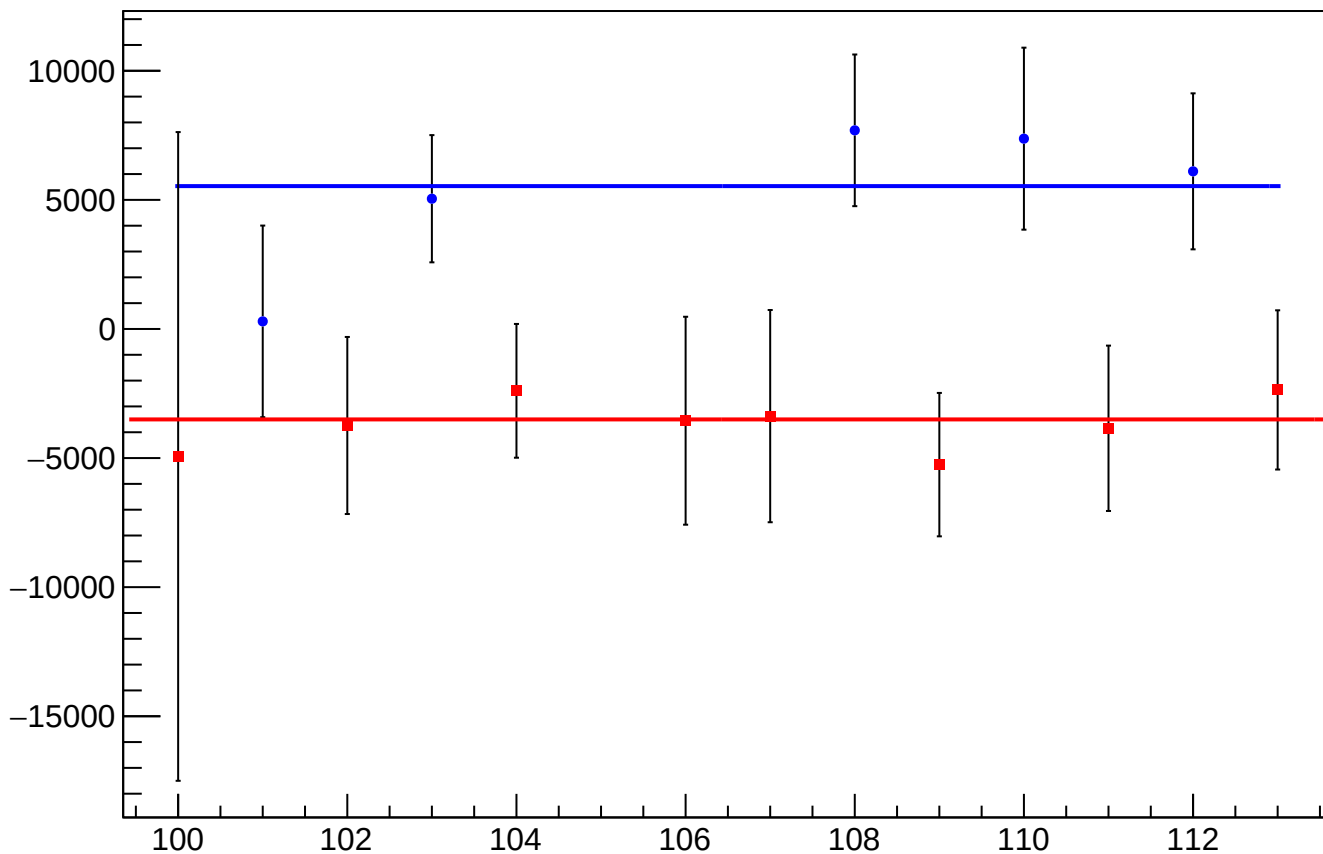
All: 6111.711+/-2.034  $\chi^2/\text{NDF}$ : 2187084.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



cor\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug



Right In: 5533.518 $\pm$ 1356.634  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3503.312 $\pm$ 1200.756  $\chi^2$ /NDF: 0.7/7

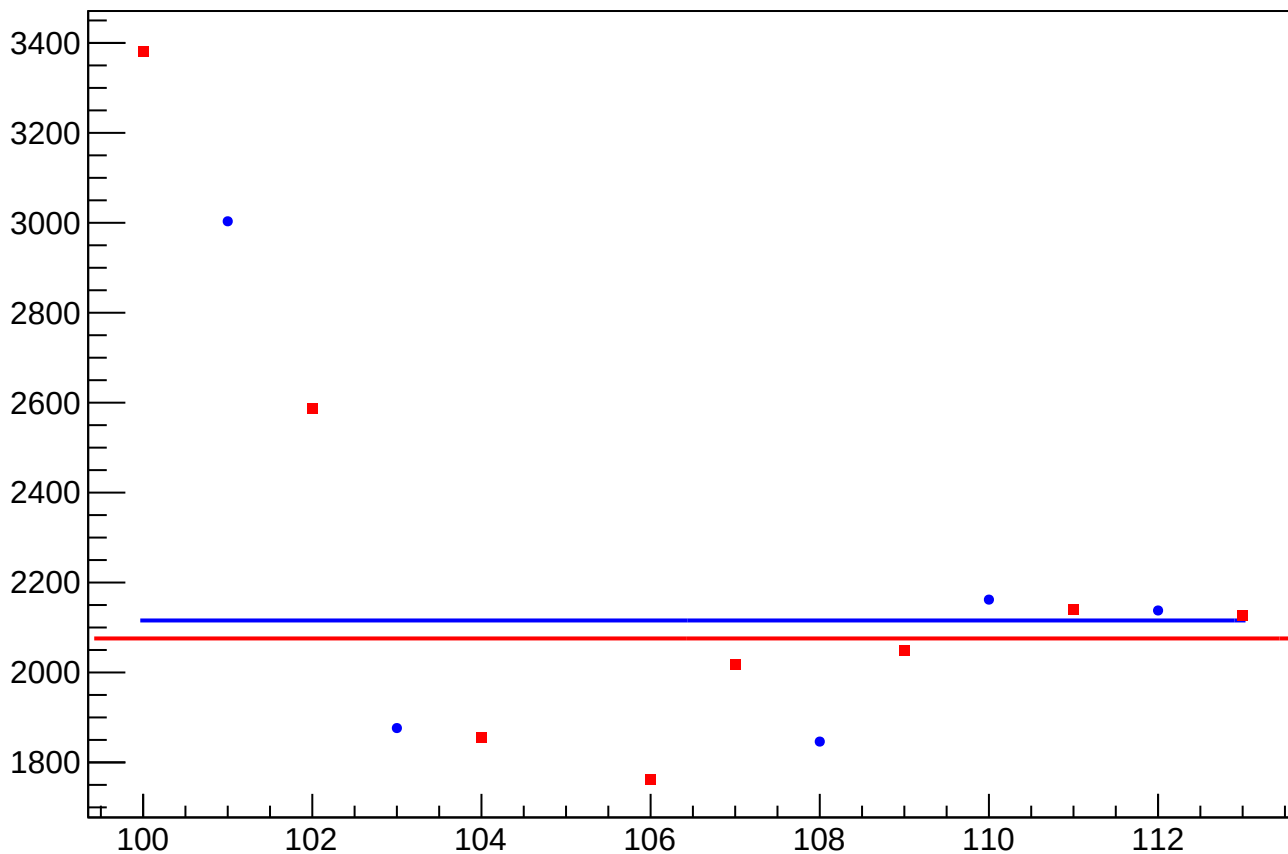
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 466.329 $\pm$ 899.146  $\chi^2$ /NDF: 28.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 2115.636 $\pm$ 0.959  $\chi^2$ /NDF: 150591.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2075.643 $\pm$ 0.840  $\chi^2$ /NDF: 97607.1/7

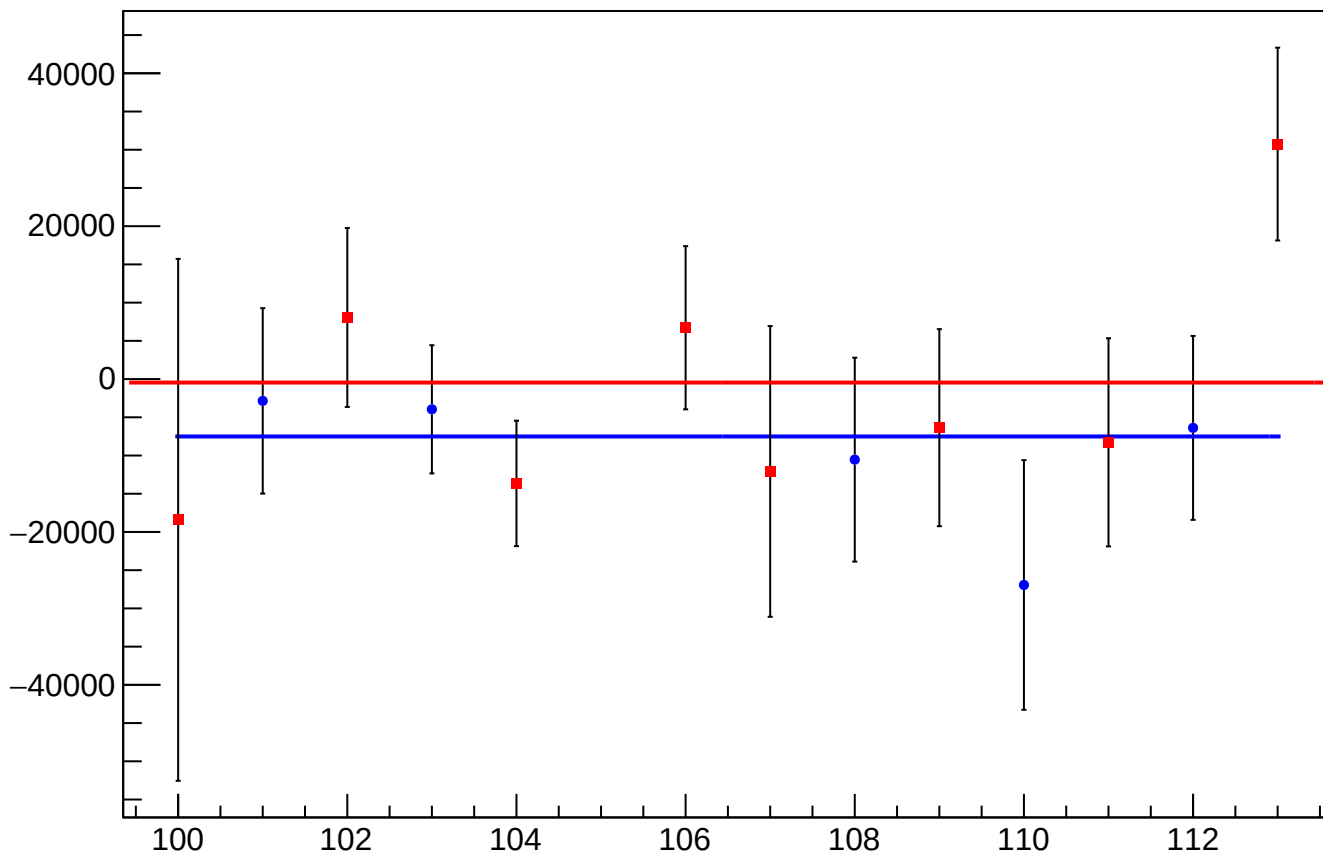
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2092.997 $\pm$ 0.632  $\chi^2$ /NDF: 249182.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_cor\_correction\_mean vs Slug



Right In: -7507.057+/-5177.495  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -457.316+/-4374.235  $\chi^2/\text{NDF}$ : 10.9/7

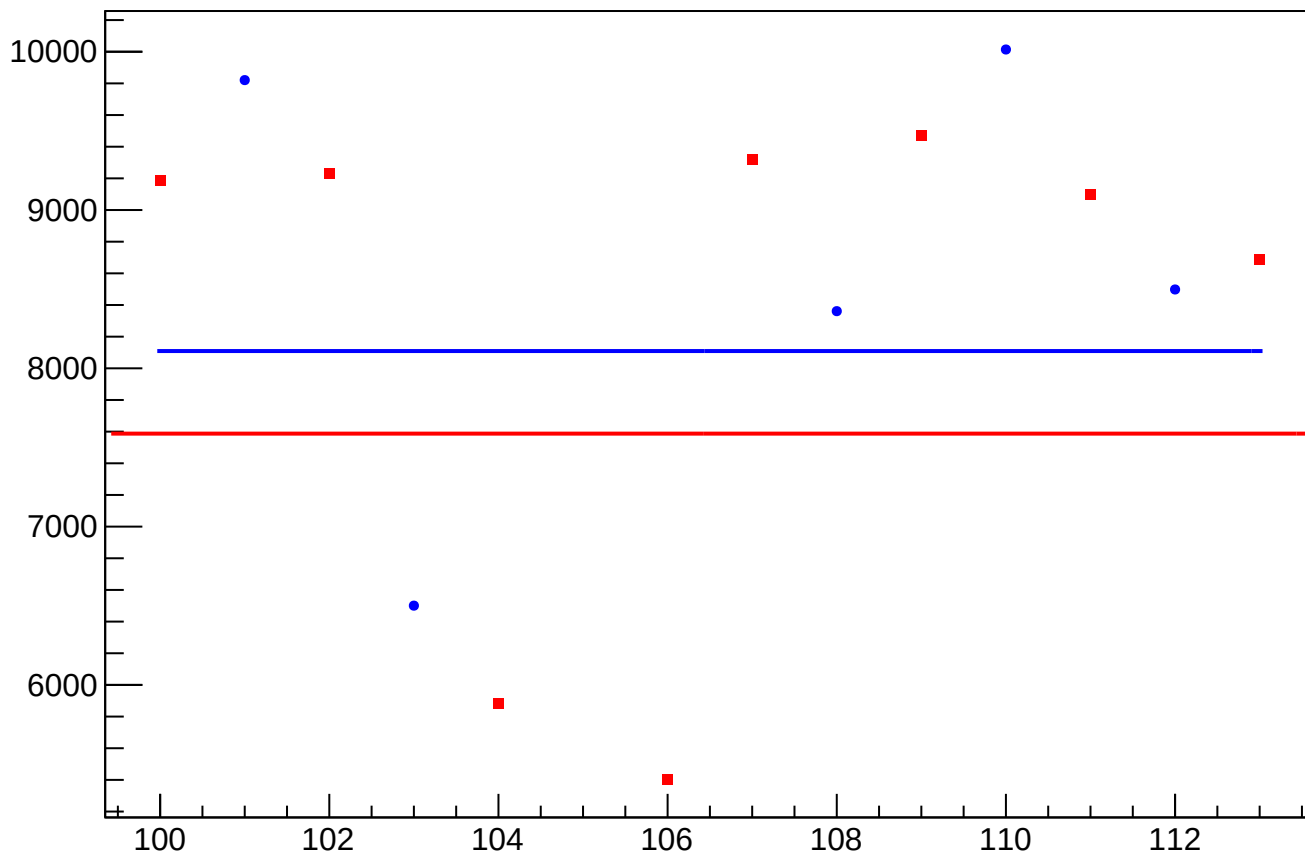
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3393.496+/-3341.369  $\chi^2/\text{NDF}$ : 13.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_cor\_correction\_rms vs Slug



Right In: 8109.119+/-3.661  $\chi^2/\text{NDF}$ : 143451.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

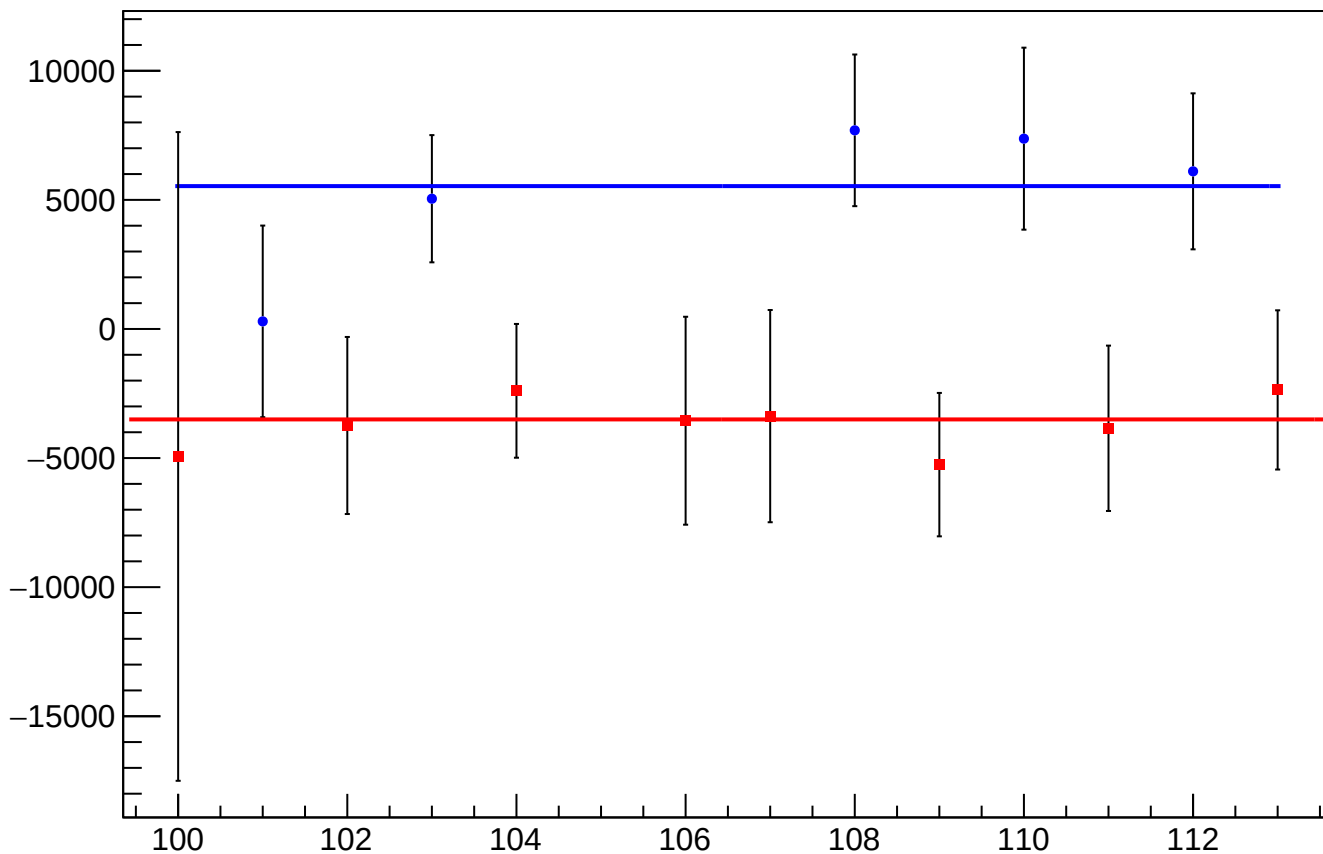
Right Out: 7587.448+/-3.093  $\chi^2/\text{NDF}$ : 313389.4/7

All: 7804.721+/-2.363  $\chi^2/\text{NDF}$ : 468688.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug



Right In: 5533.518 $\pm$ 1356.634  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3503.312 $\pm$ 1200.756  $\chi^2$ /NDF: 0.7/7

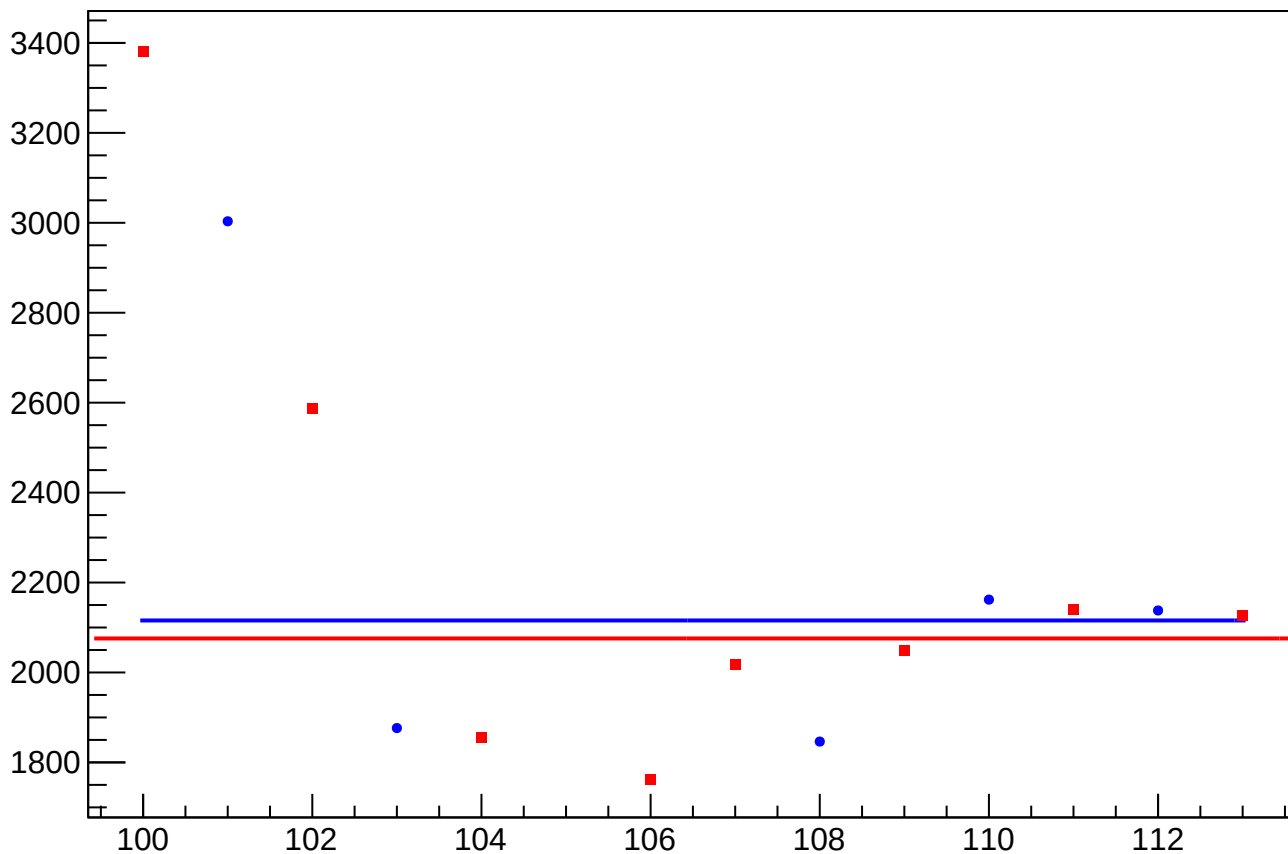
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 466.329 $\pm$ 899.146  $\chi^2$ /NDF: 28.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 2115.636 $\pm$ 0.959  $\chi^2$ /NDF: 150591.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2075.643 $\pm$ 0.840  $\chi^2$ /NDF: 97607.1/7

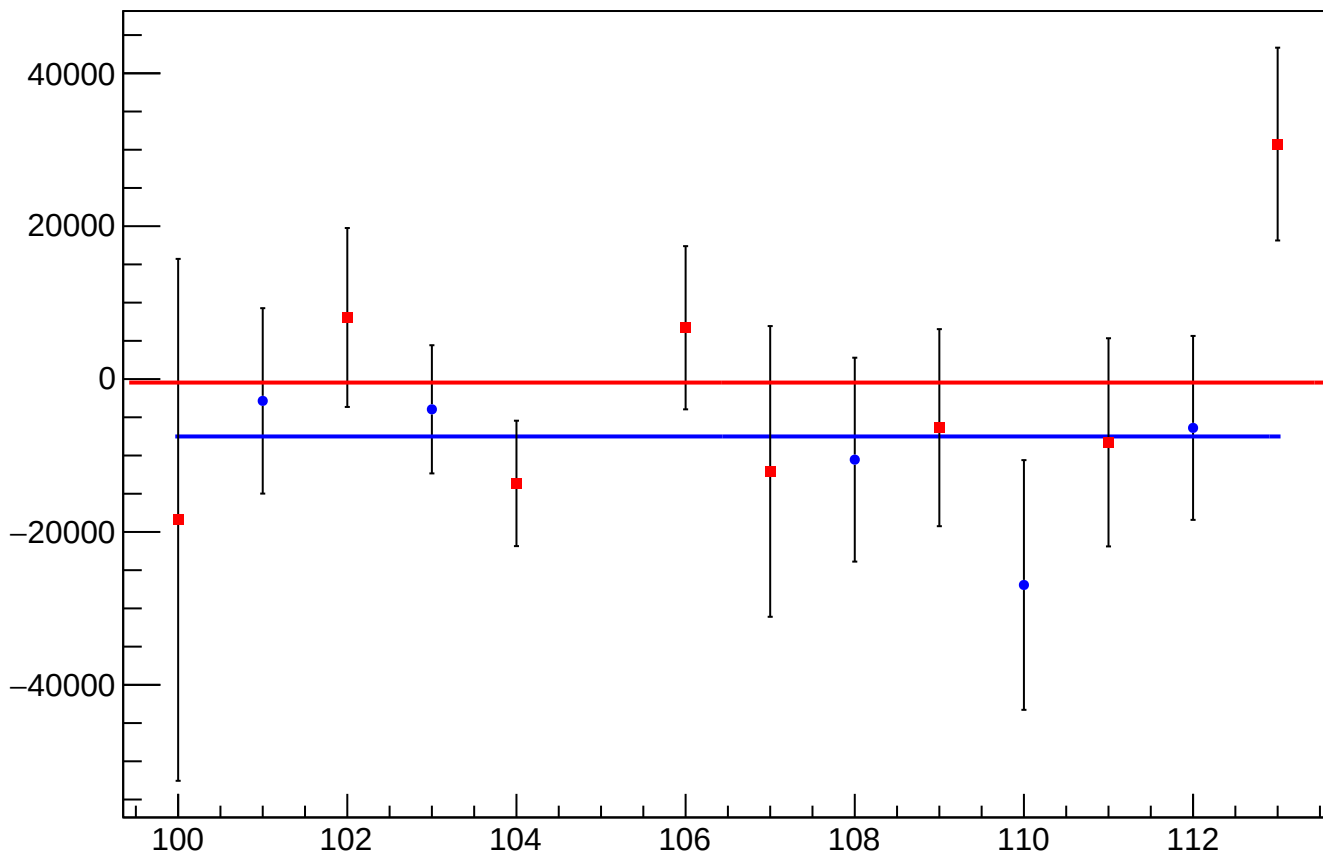
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2092.997 $\pm$ 0.632  $\chi^2$ /NDF: 249182.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -7507.057+/-5177.495  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -457.316+/-4374.235  $\chi^2/\text{NDF}$ : 10.9/7

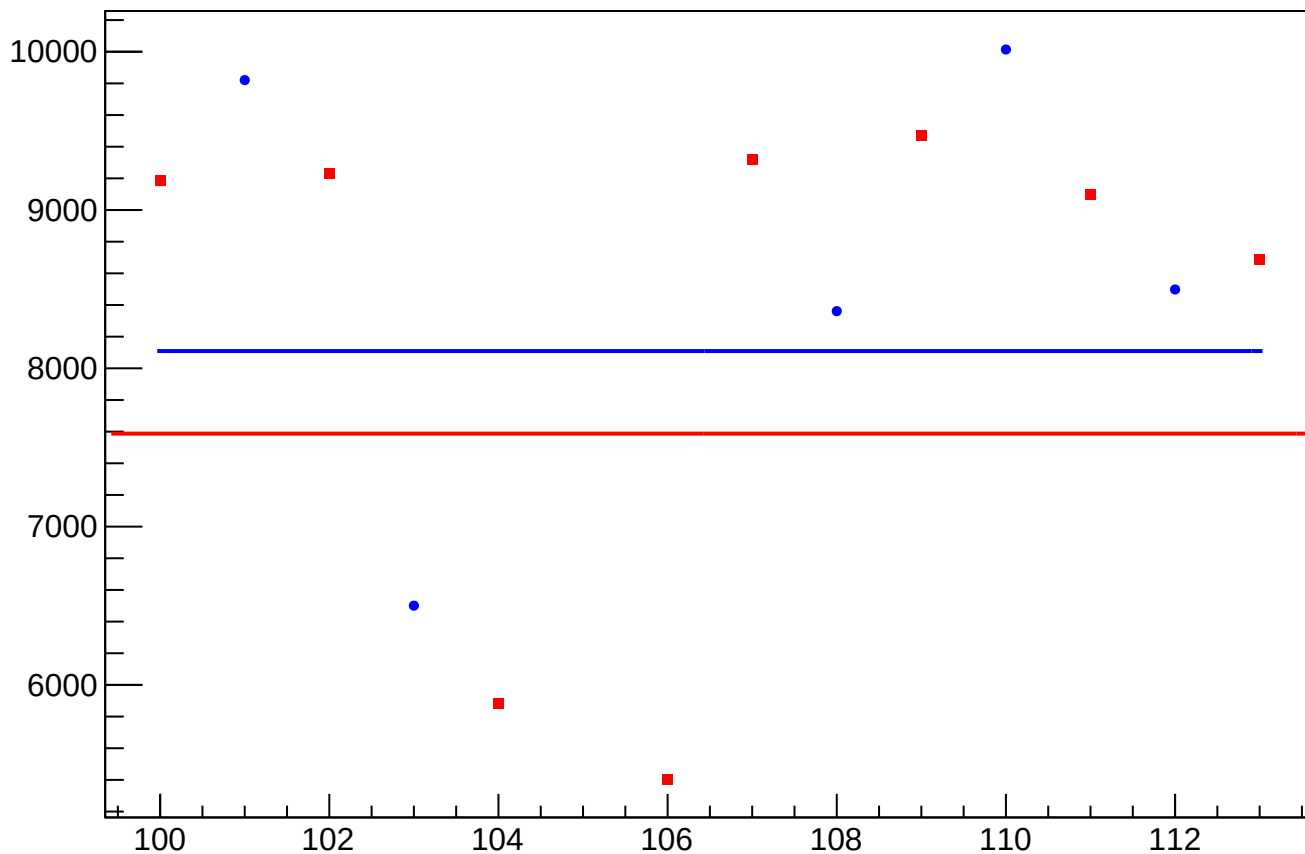
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3393.496+/-3341.369  $\chi^2/\text{NDF}$ : 13.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 8109.119+/-3.661  $\chi^2$ /NDF: 143451.7/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7587.448+/-3.093  $\chi^2$ /NDF: 313389.4/7

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

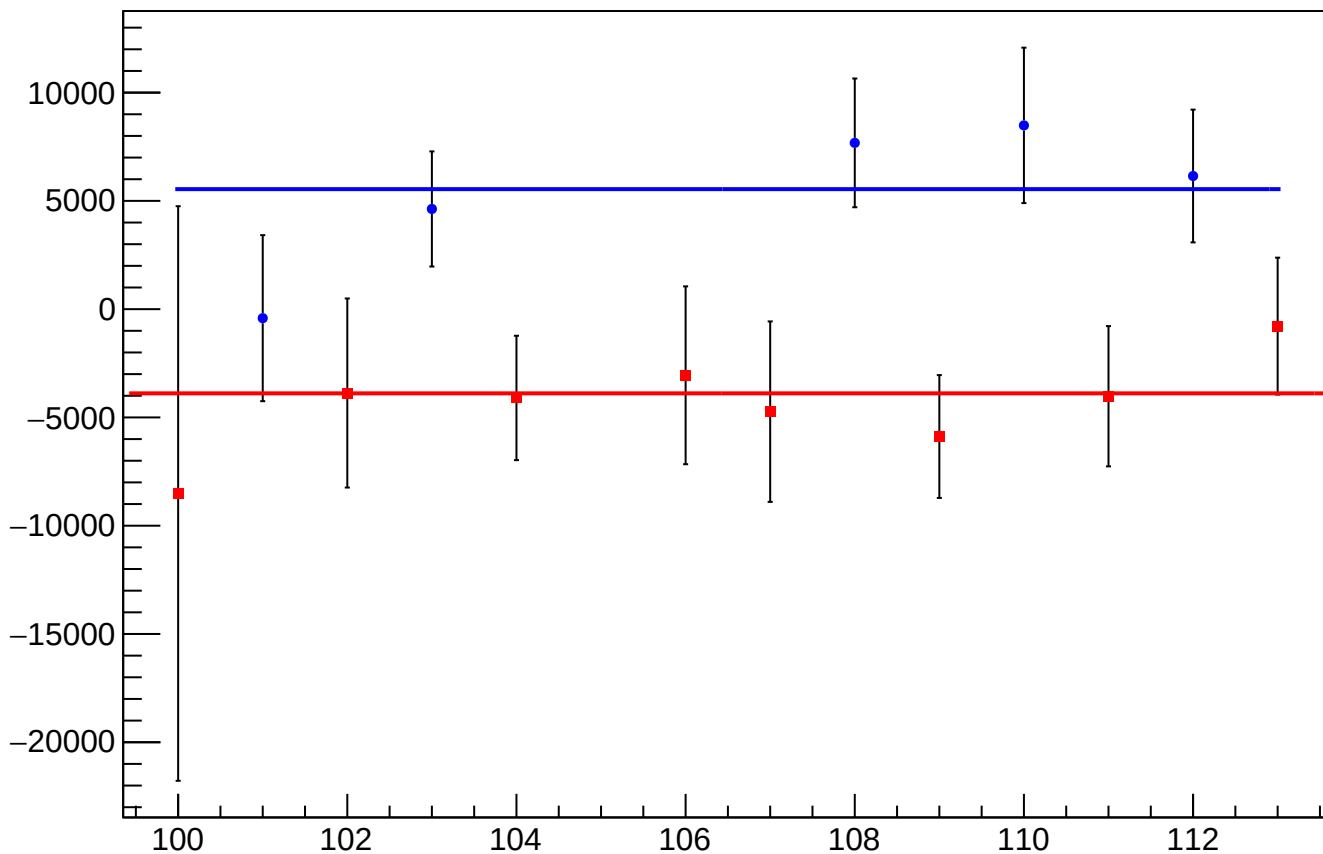
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 7804.721+/-2.363  $\chi^2$ /NDF: 468688.7/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



dit\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug



Right In: 5542.375 $\pm$ 1404.674  $\chi^2$ /NDF: 3.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3888.201 $\pm$ 1274.078  $\chi^2$ /NDF: 1.7/7

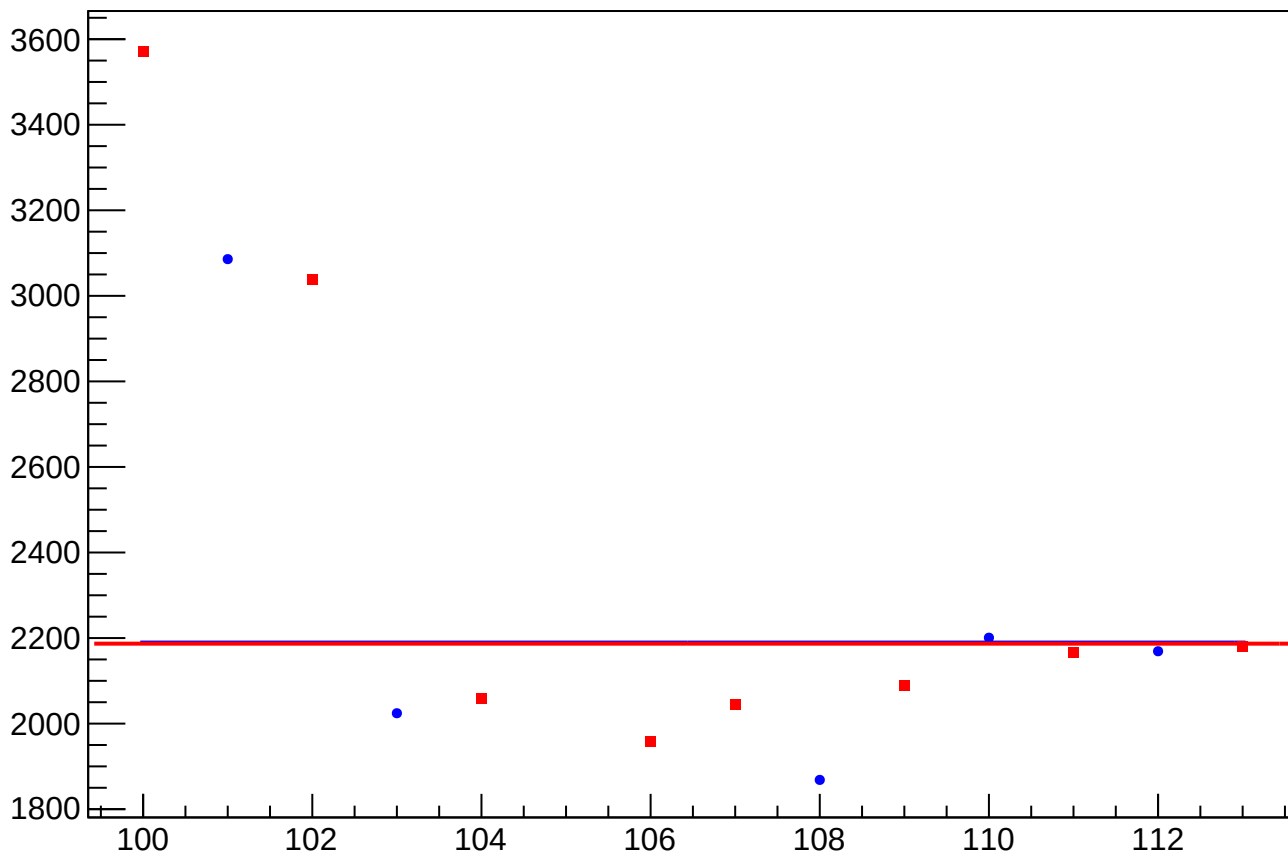
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 368.412 $\pm$ 943.710  $\chi^2$ /NDF: 30.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 2189.449 $\pm$ 0.993  $\chi^2$ /NDF: 140490.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2186.921 $\pm$ 0.900  $\chi^2$ /NDF: 113188.1/7

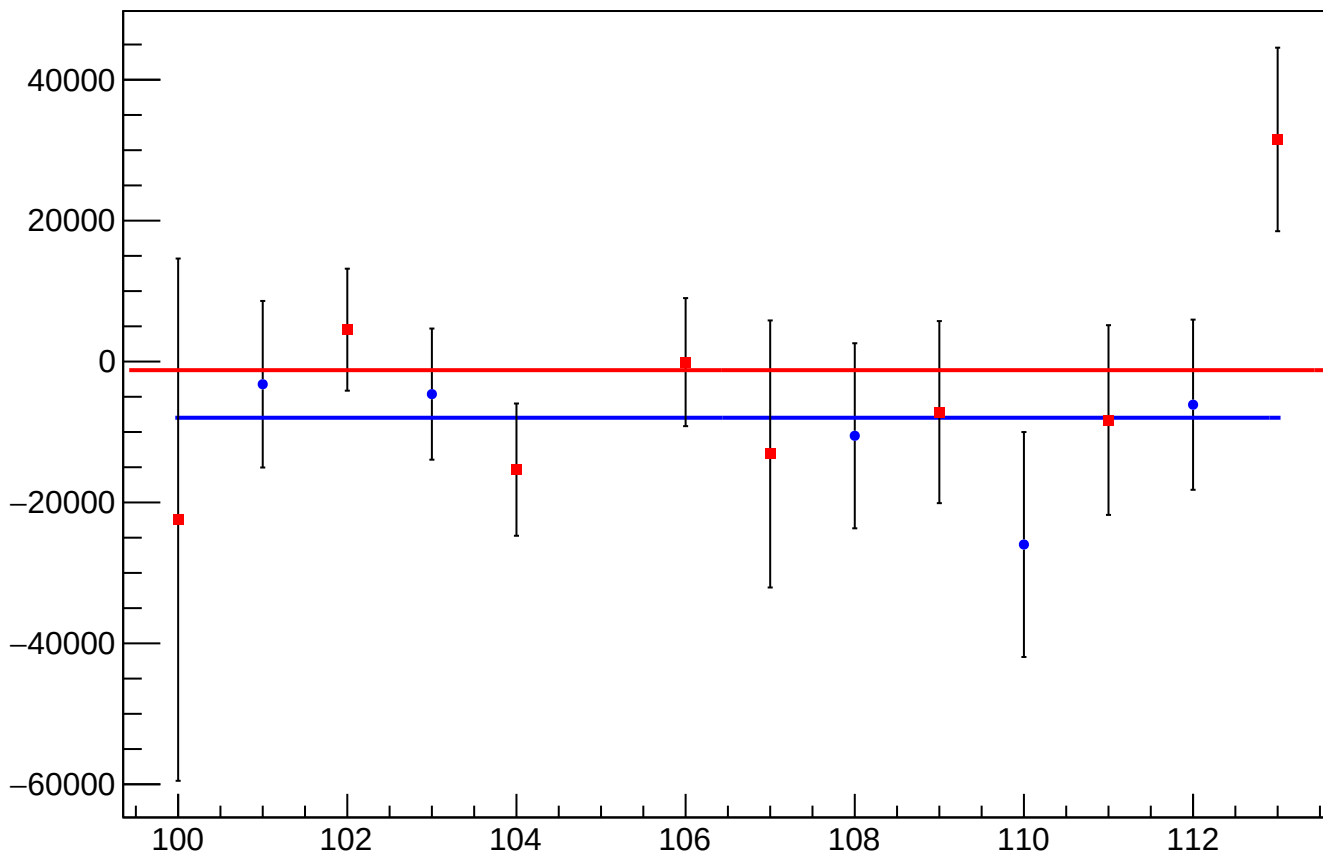
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2188.060 $\pm$ 0.667  $\chi^2$ /NDF: 253682.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_correction\_mean vs Slug



Right In: -7975.765+/-5324.008  $\chi^2/\text{NDF}$ : 1.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1222.231+/-4162.735  $\chi^2/\text{NDF}$ : 10.3/7

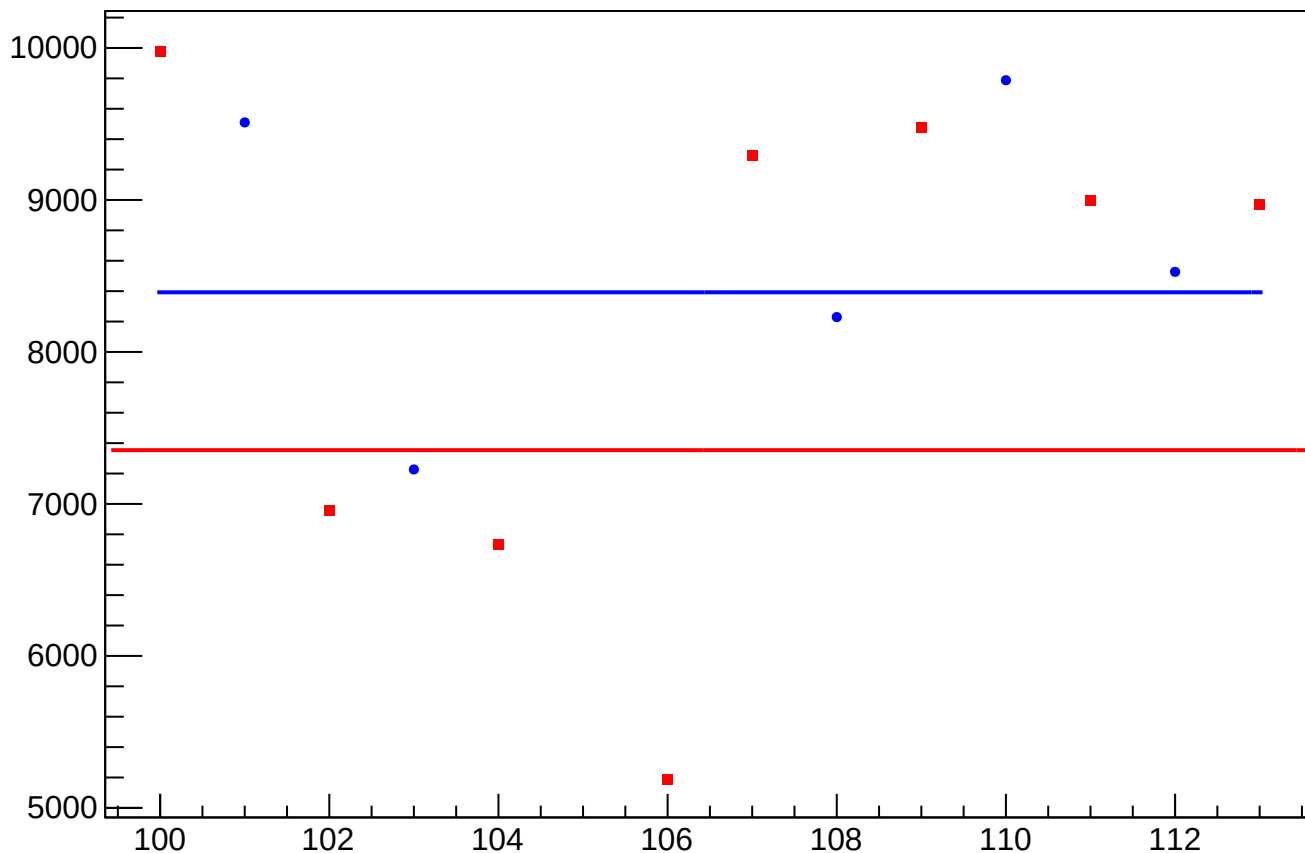
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3784.502+/-3279.334  $\chi^2/\text{NDF}$ : 12.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_correction\_rms vs Slug



Right In:  $8392.431 \pm 3.765$   $\chi^2/\text{NDF}: 65095.6/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $7353.678 \pm 2.943$   $\chi^2/\text{NDF}: 272080.6/7$

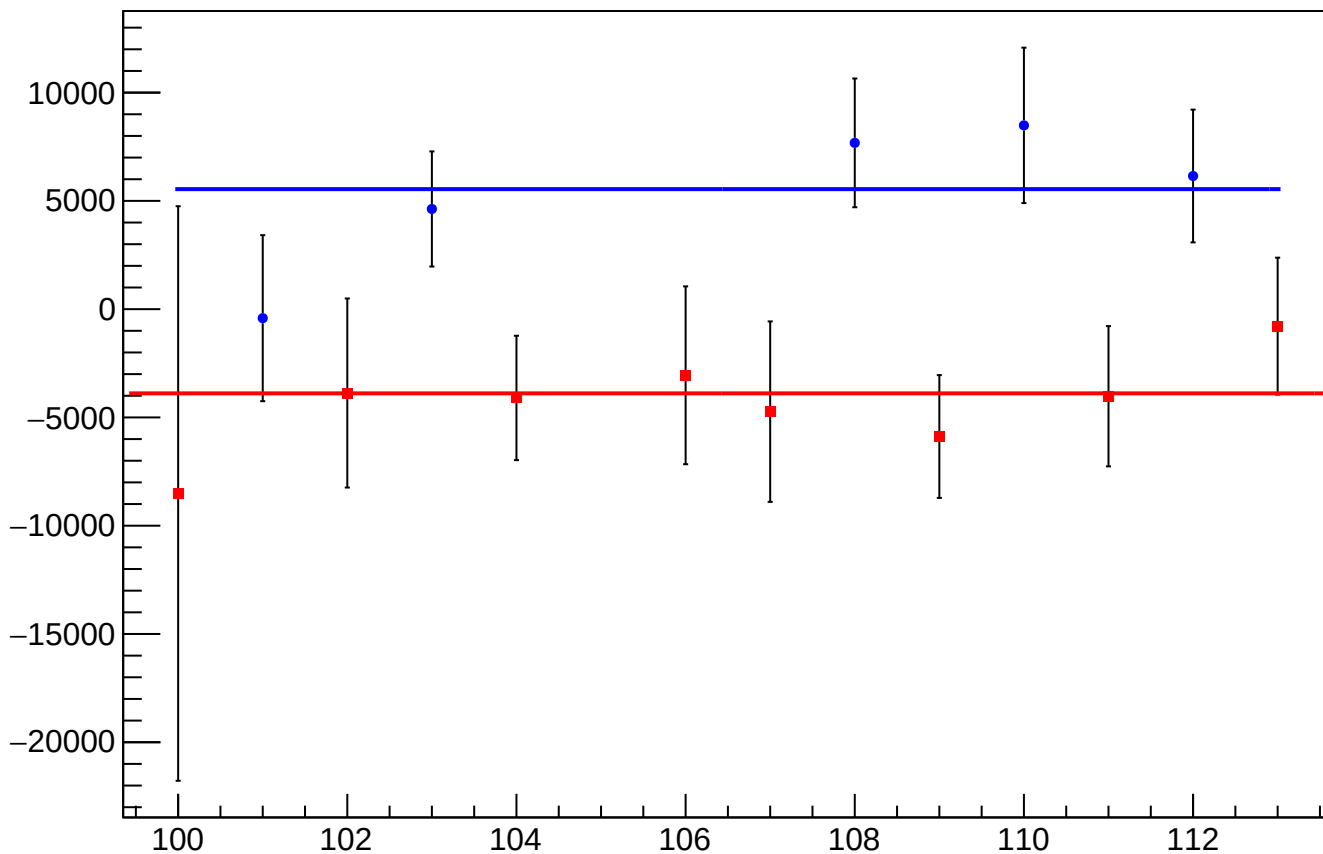
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $7747.778 \pm 2.319$   $\chi^2/\text{NDF}: 384425.0/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

eigen\_dit\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug



Right In: 5542.386 $\pm$ 1404.674  $\chi^2$ /NDF: 3.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3888.208 $\pm$ 1274.078  $\chi^2$ /NDF: 1.7/7

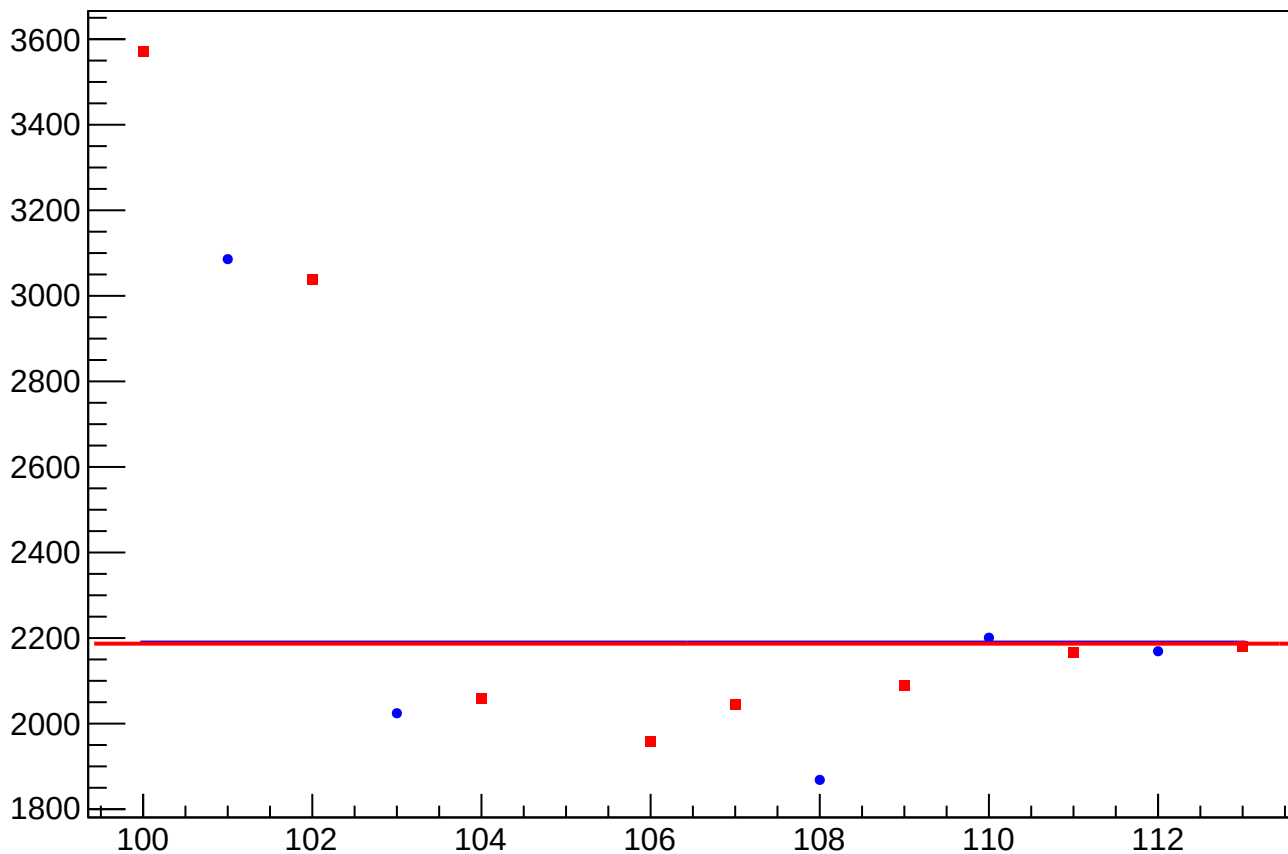
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 368.412 $\pm$ 943.710  $\chi^2$ /NDF: 30.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 2189.449 $\pm$ 0.993  $\chi^2$ /NDF: 140490.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2186.920 $\pm$ 0.900  $\chi^2$ /NDF: 113188.0/7

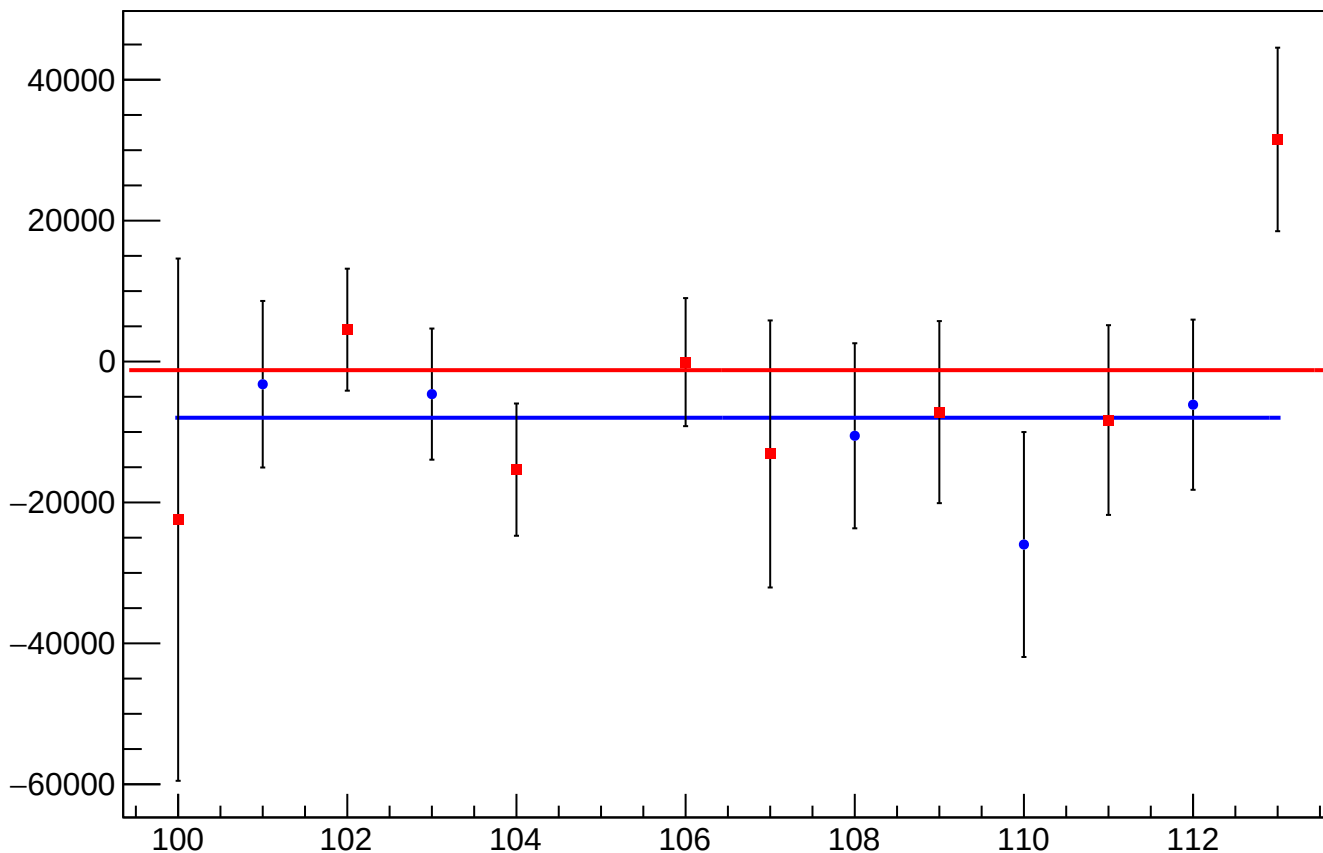
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2188.060 $\pm$ 0.667  $\chi^2$ /NDF: 253682.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -7975.762+/-5324.001  $\chi^2/\text{NDF}$ : 1.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1222.236+/-4162.728  $\chi^2/\text{NDF}$ : 10.3/7

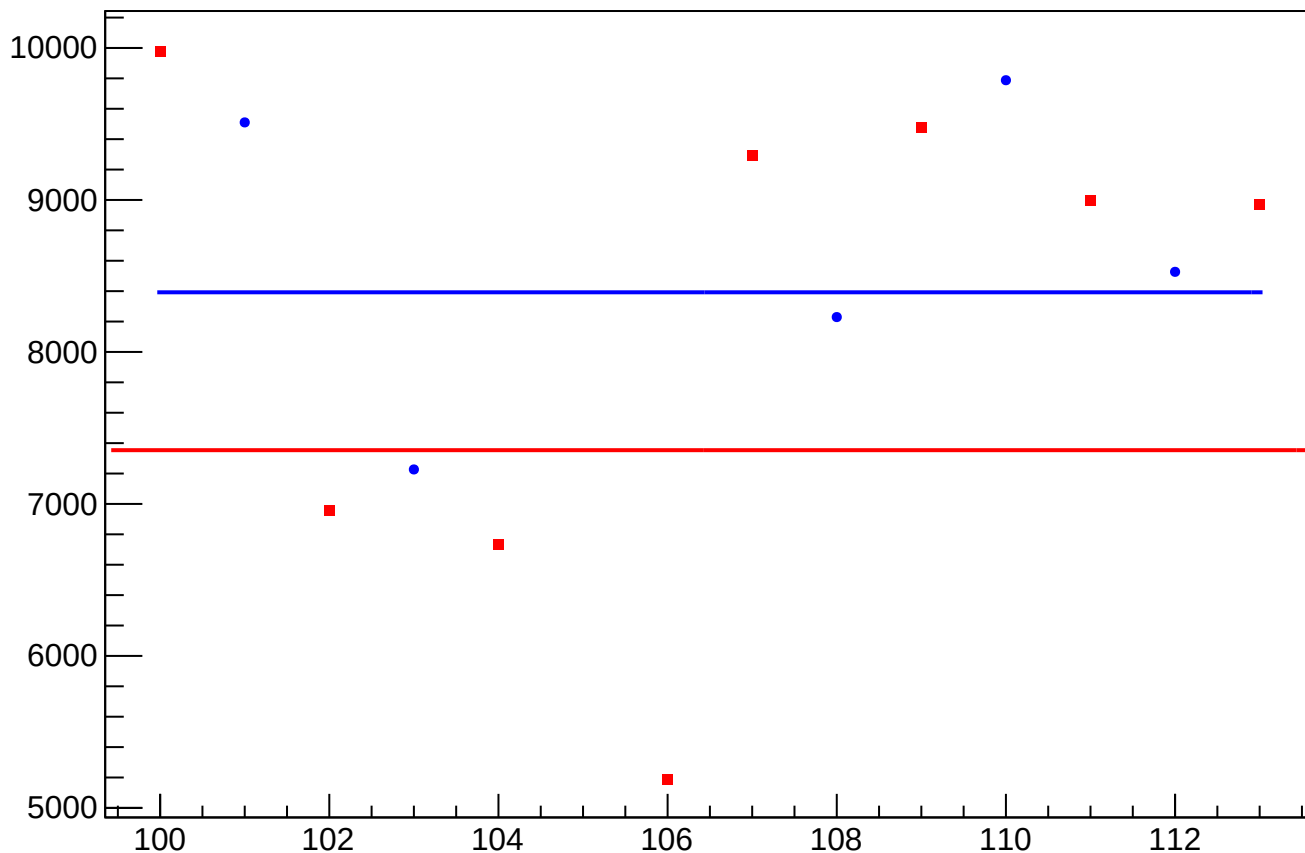
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3784.504+/-3279.329  $\chi^2/\text{NDF}$ : 12.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In:  $8392.419 \pm 3.765$   $\chi^2/\text{NDF}: 65095.1/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $7353.667 \pm 2.943$   $\chi^2/\text{NDF}: 272079.6/7$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

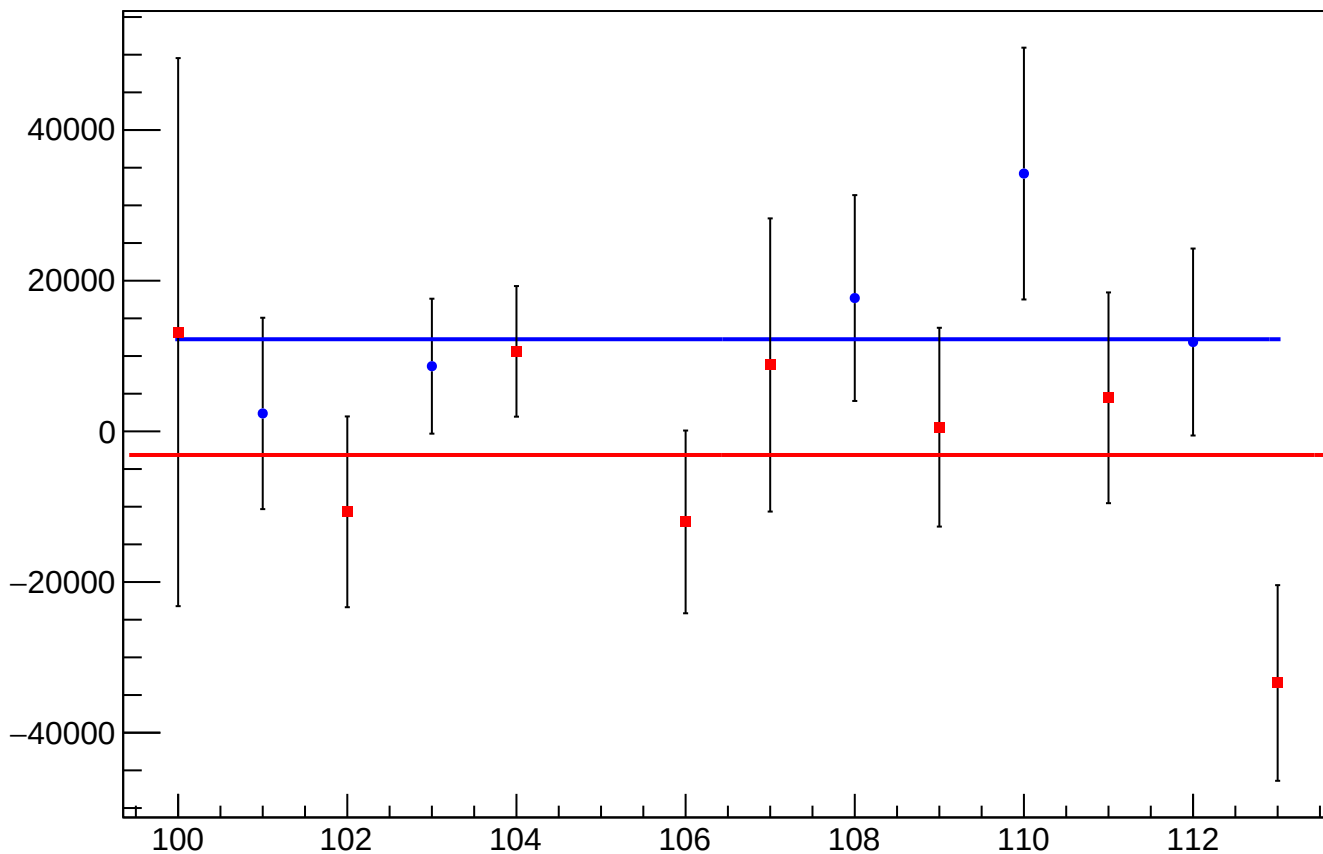
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $7747.766 \pm 2.319$   $\chi^2/\text{NDF}: 384423.6/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$



asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug



Right In: 12229.065+/-5415.621  $\chi^2/\text{NDF}$ : 2.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3135.162+/-4636.349  $\chi^2/\text{NDF}$ : 9.8/7

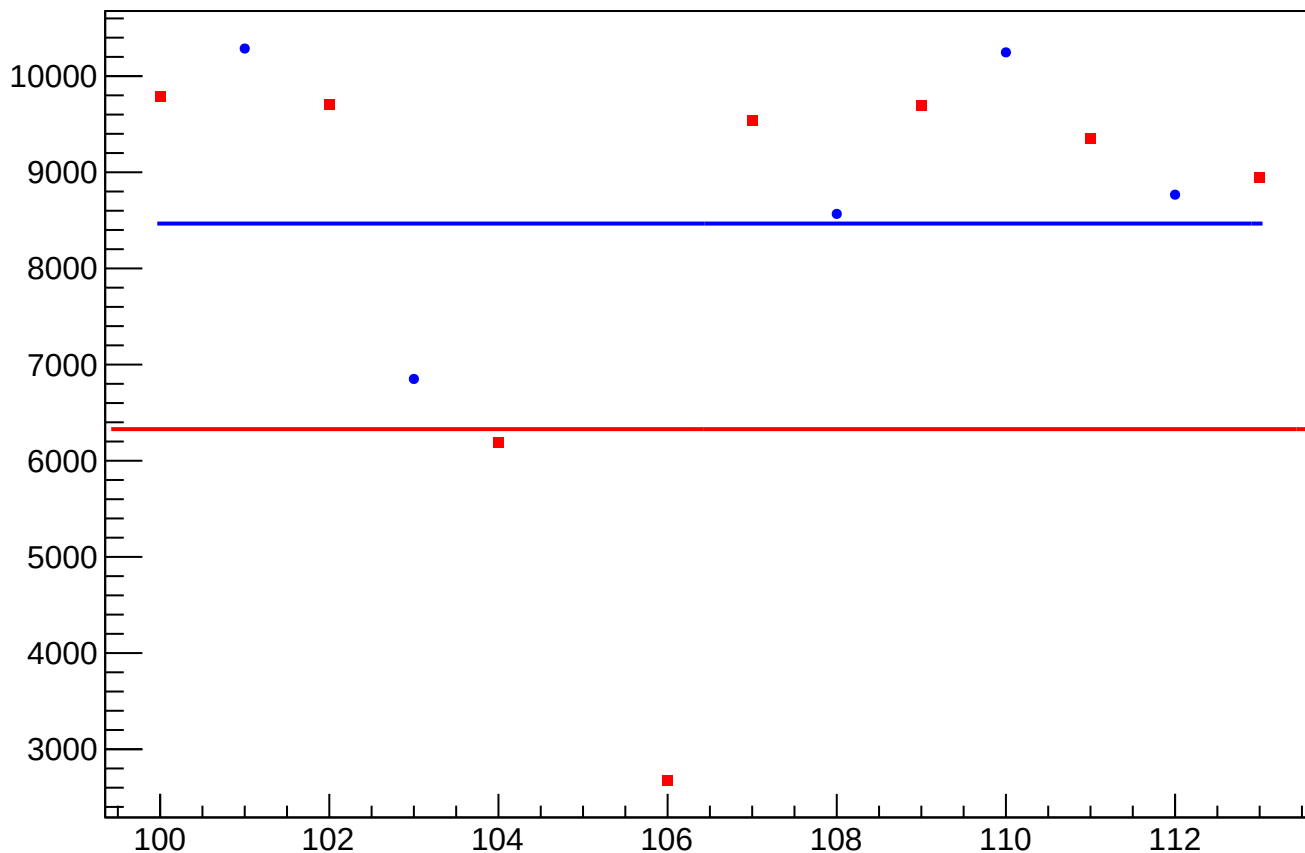
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3362.967+/-3521.982  $\chi^2/\text{NDF}$ : 17.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 8466.634+/-3.829  $\chi^2/\text{NDF}$ : 130168.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6328.852+/-2.844  $\chi^2/\text{NDF}$ : 1109400.8/7

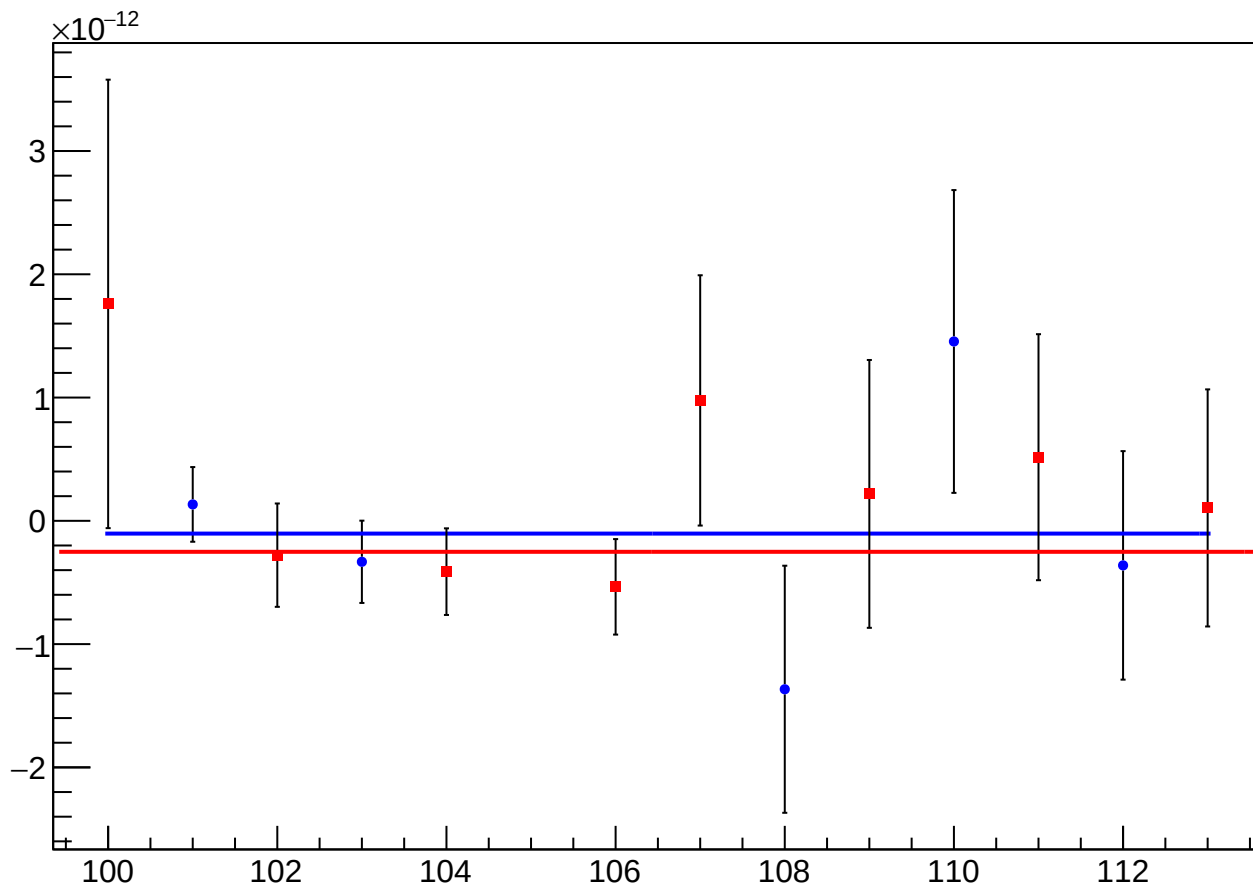
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7089.006+/-2.283  $\chi^2/\text{NDF}$ : 1440412.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.4/7

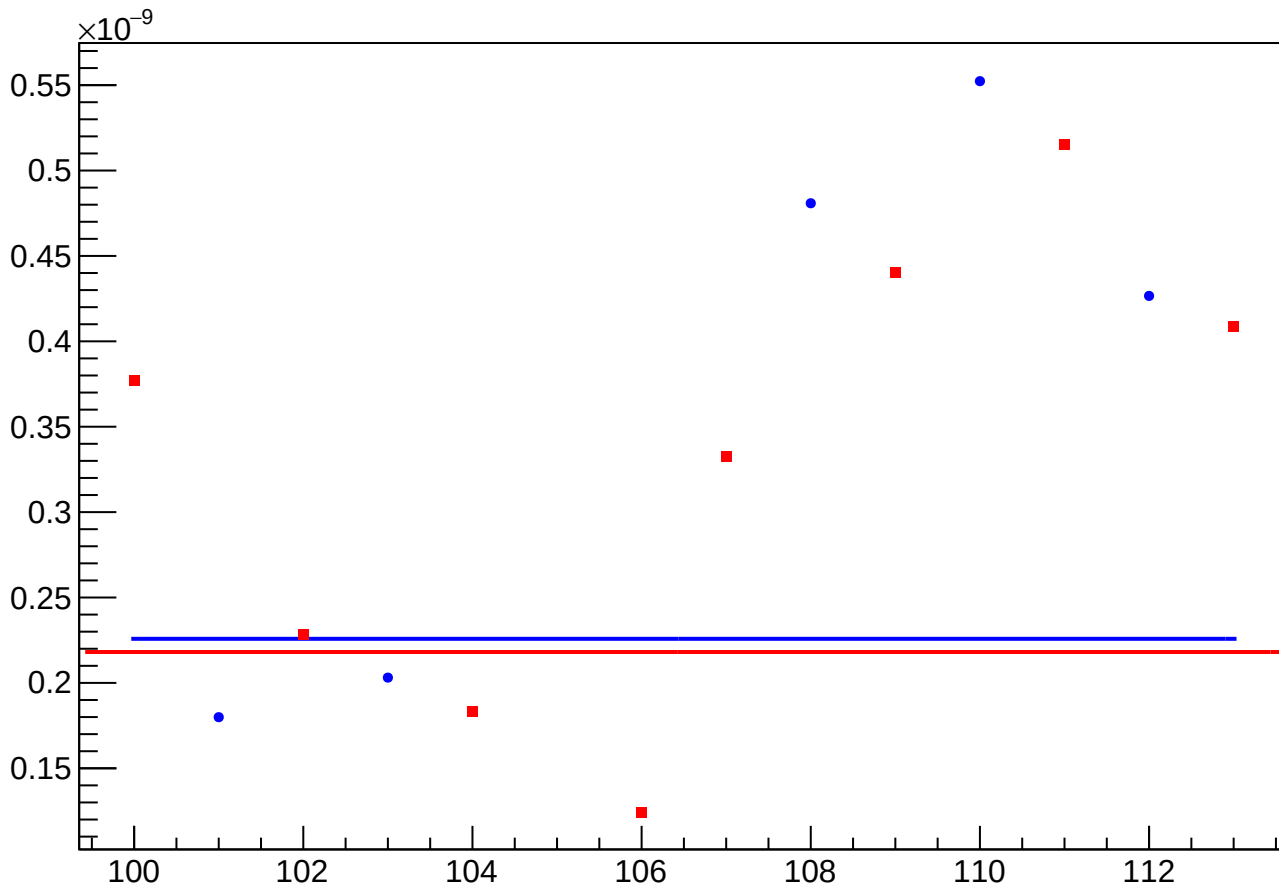
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 419903.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 518609.8/7

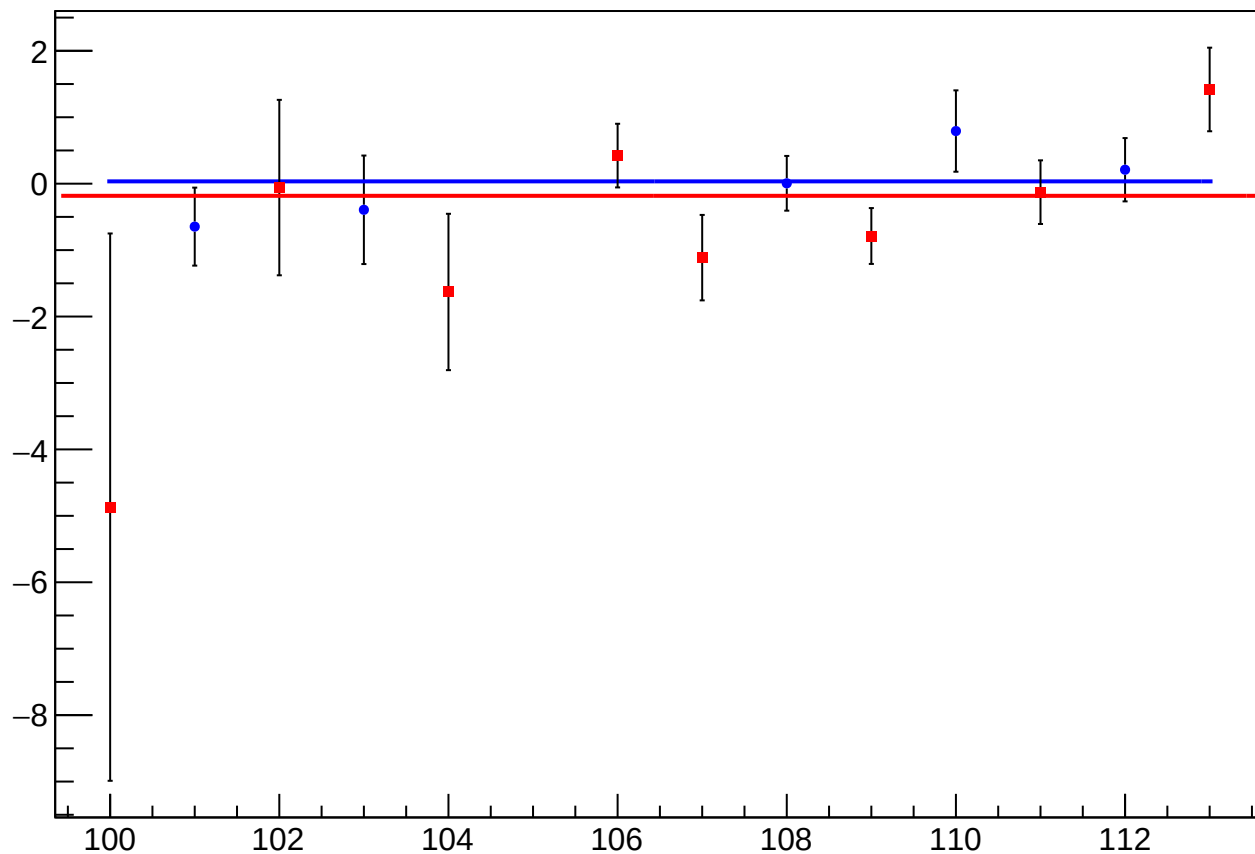
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 939924.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.035 $\pm$ 0.240  $\chi^2$ /NDF: 3.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.183 $\pm$ 0.220  $\chi^2$ /NDF: 15.1/7

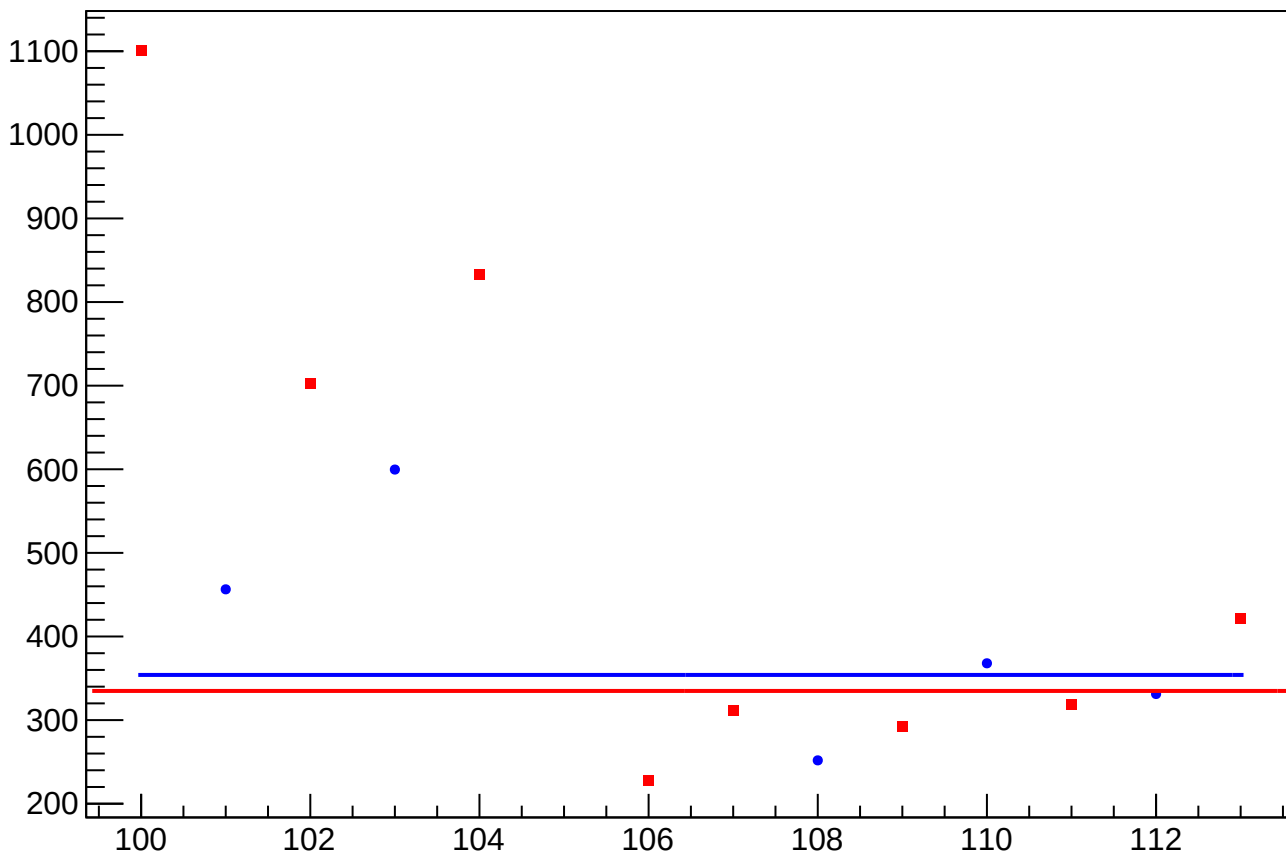
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.083 $\pm$ 0.162  $\chi^2$ /NDF: 18.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In:  $354.024 \pm 0.170$   $\chi^2/\text{NDF}: 370444.4/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $334.870 \pm 0.156$   $\chi^2/\text{NDF}: 745943.2/7$

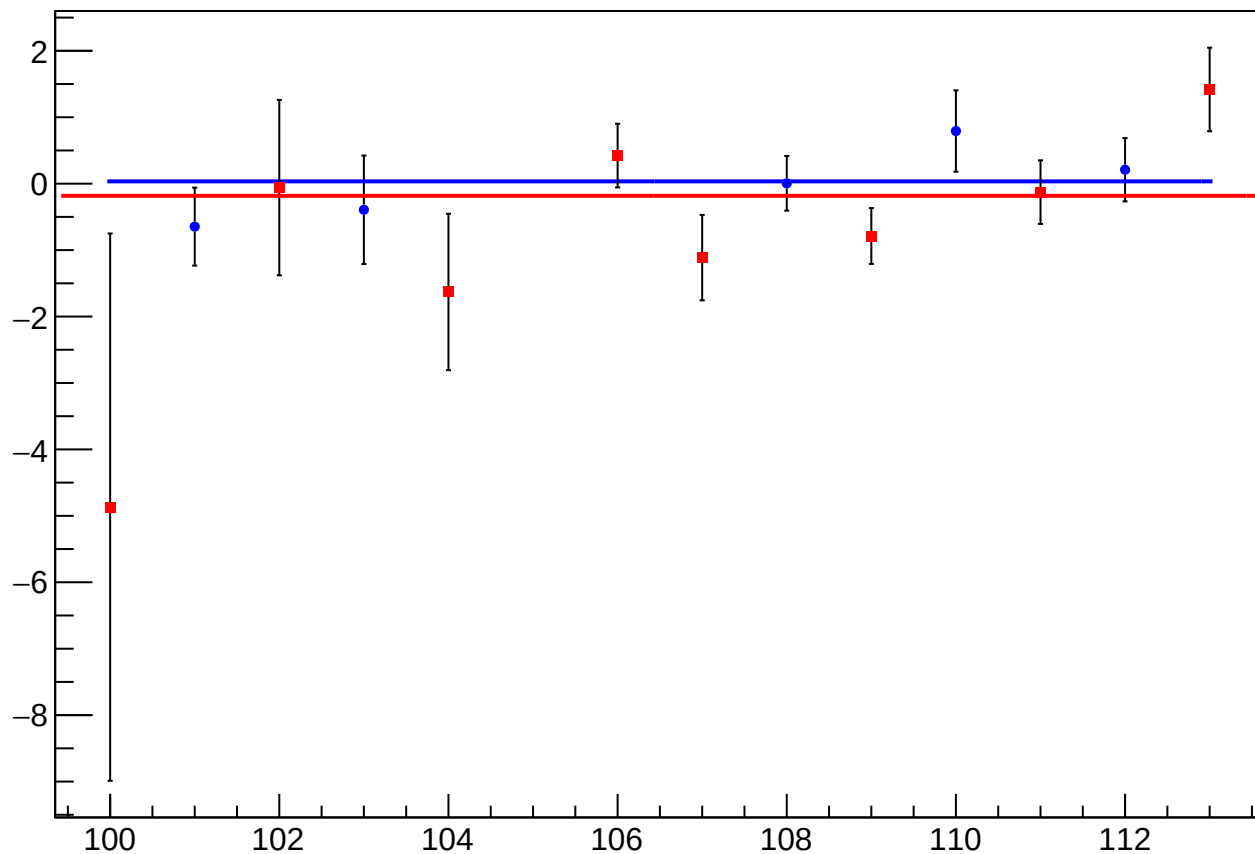
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $343.615 \pm 0.115$   $\chi^2/\text{NDF}: 1123311.7/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.035 $\pm$ 0.240  $\chi^2$ /NDF: 3.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.183 $\pm$ 0.220  $\chi^2$ /NDF: 15.1/7

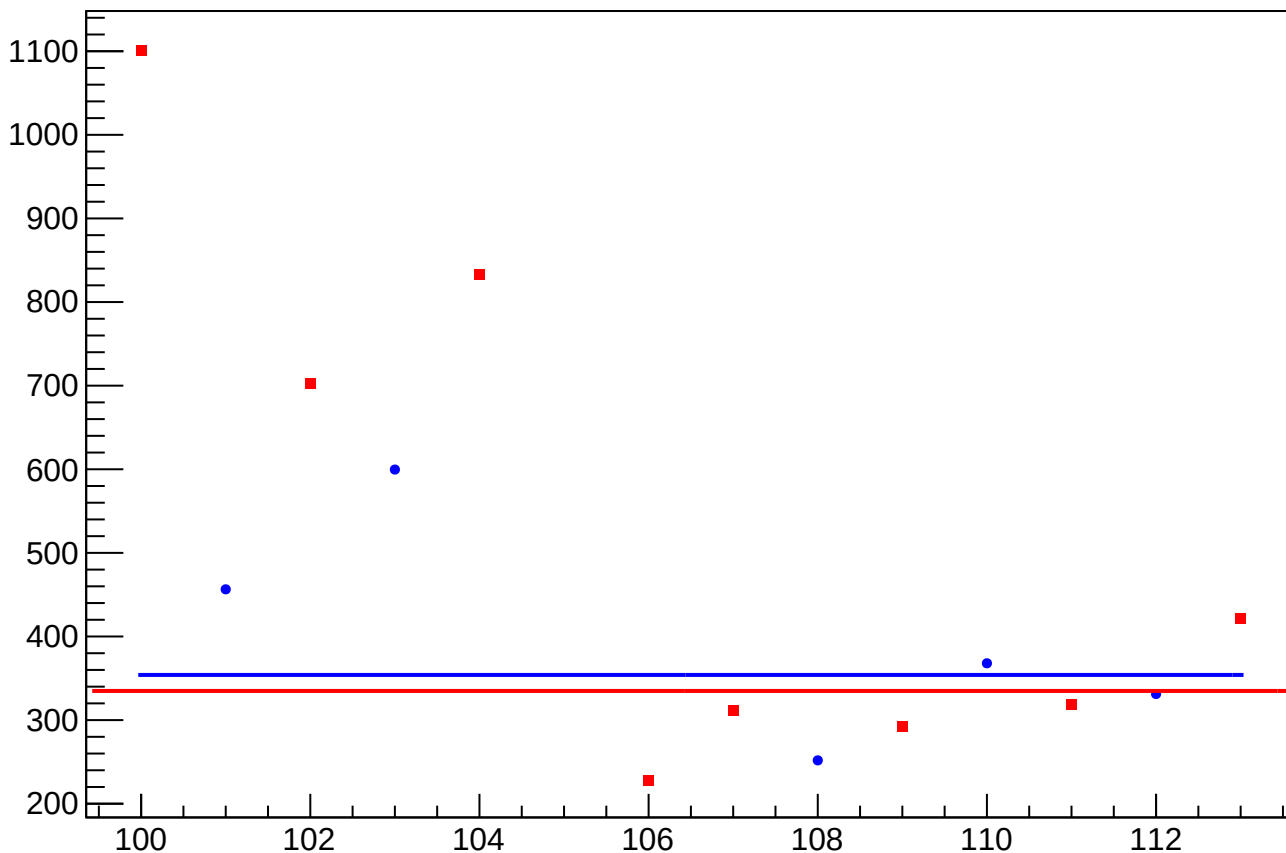
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.083 $\pm$ 0.162  $\chi^2$ /NDF: 18.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 354.024+/-0.170  $\chi^2/\text{NDF}$ : 370444.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 334.870+/-0.156  $\chi^2/\text{NDF}$ : 745943.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

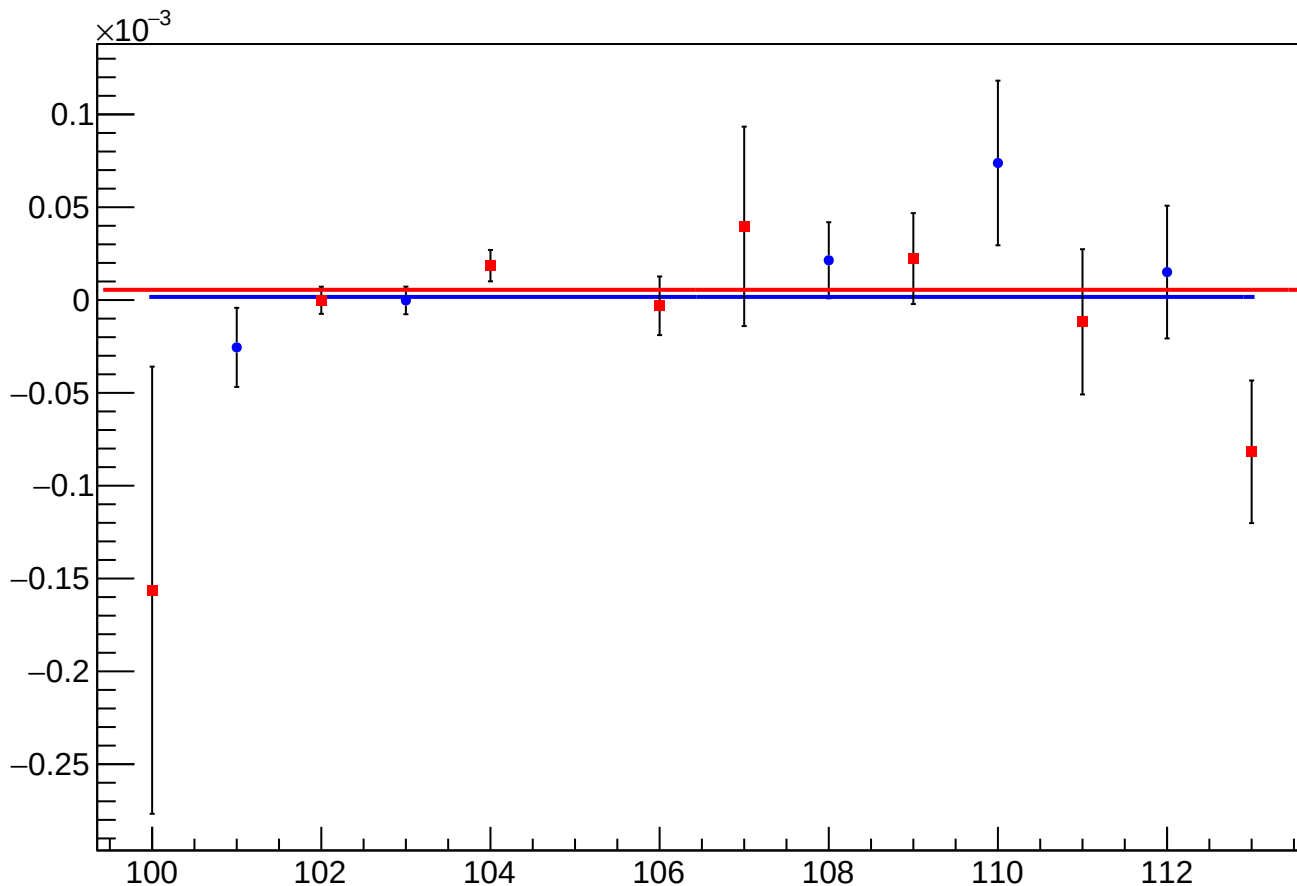
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 343.615+/-0.115  $\chi^2/\text{NDF}$ : 1123311.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.3/7

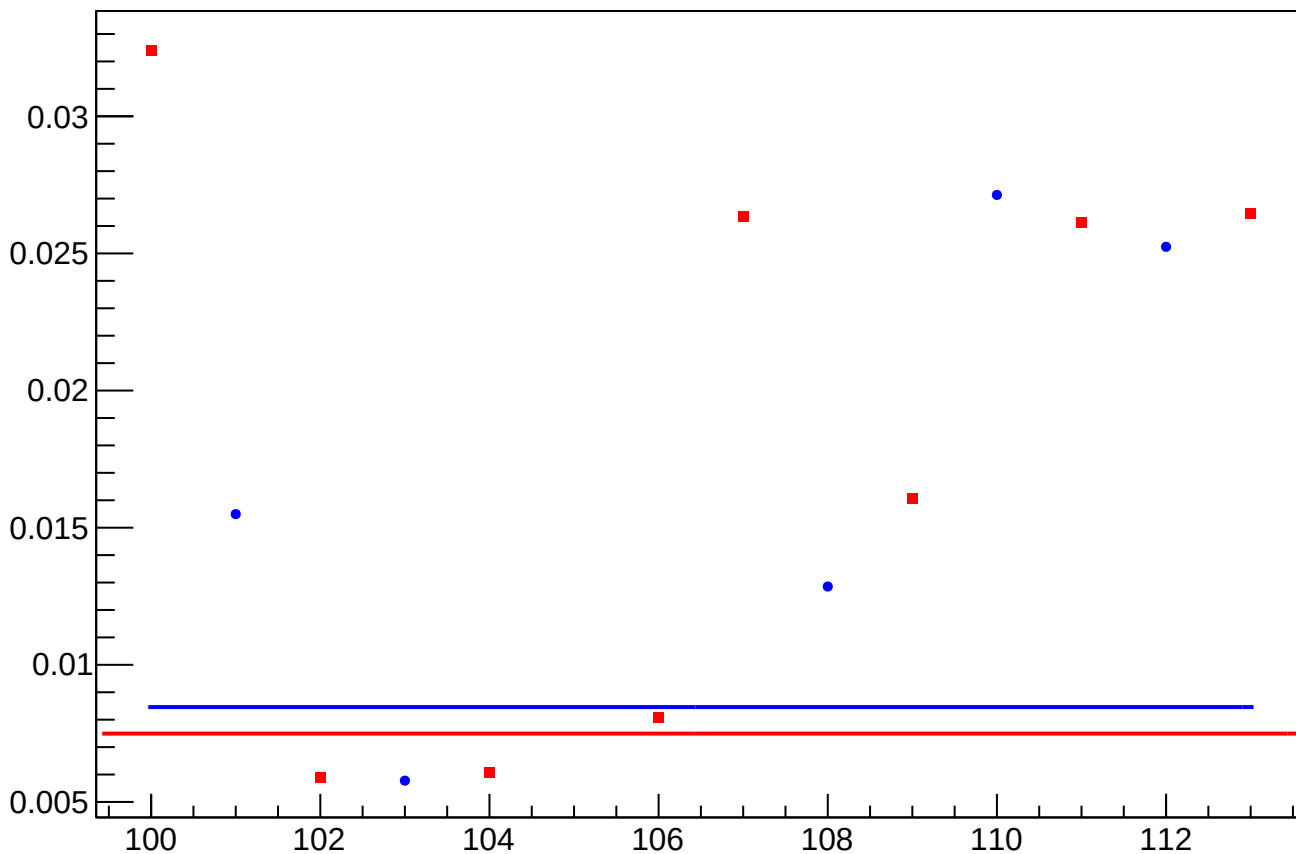
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 1366654.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1672144.1/7

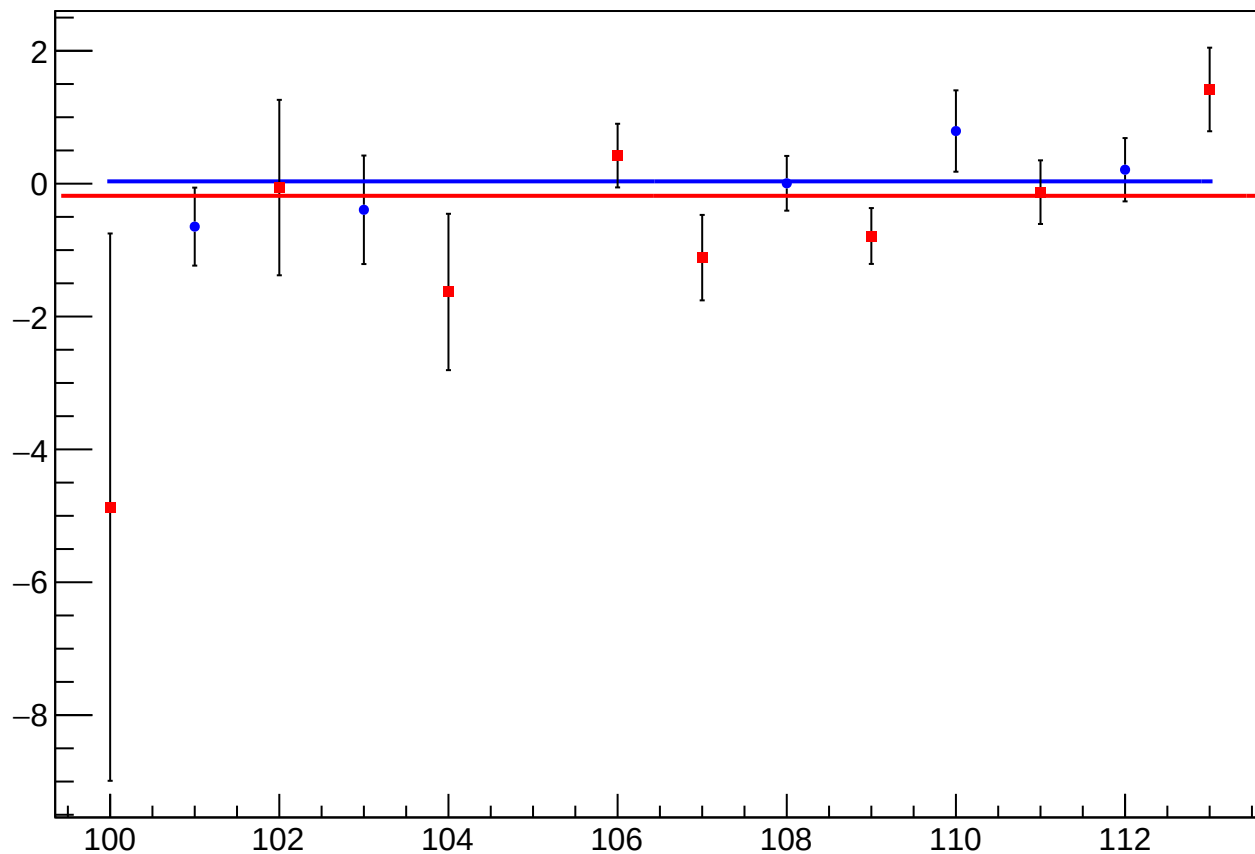
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 3066871.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.035 $\pm$ 0.240  $\chi^2$ /NDF: 3.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.183 $\pm$ 0.220  $\chi^2$ /NDF: 15.1/7

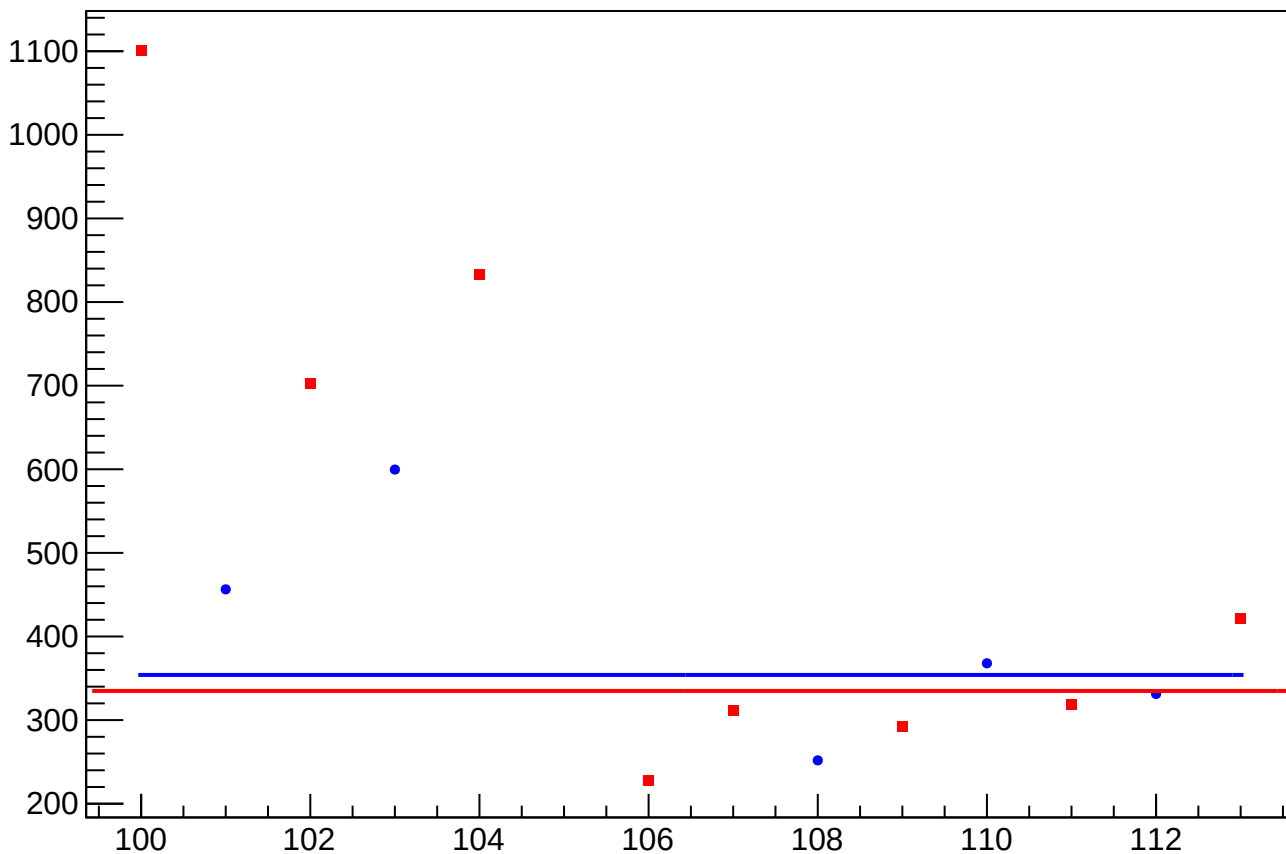
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.083 $\pm$ 0.162  $\chi^2$ /NDF: 18.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 354.029+/-0.170  $\chi^2/\text{NDF}$ : 370421.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 334.872+/-0.156  $\chi^2/\text{NDF}$ : 745929.5/7

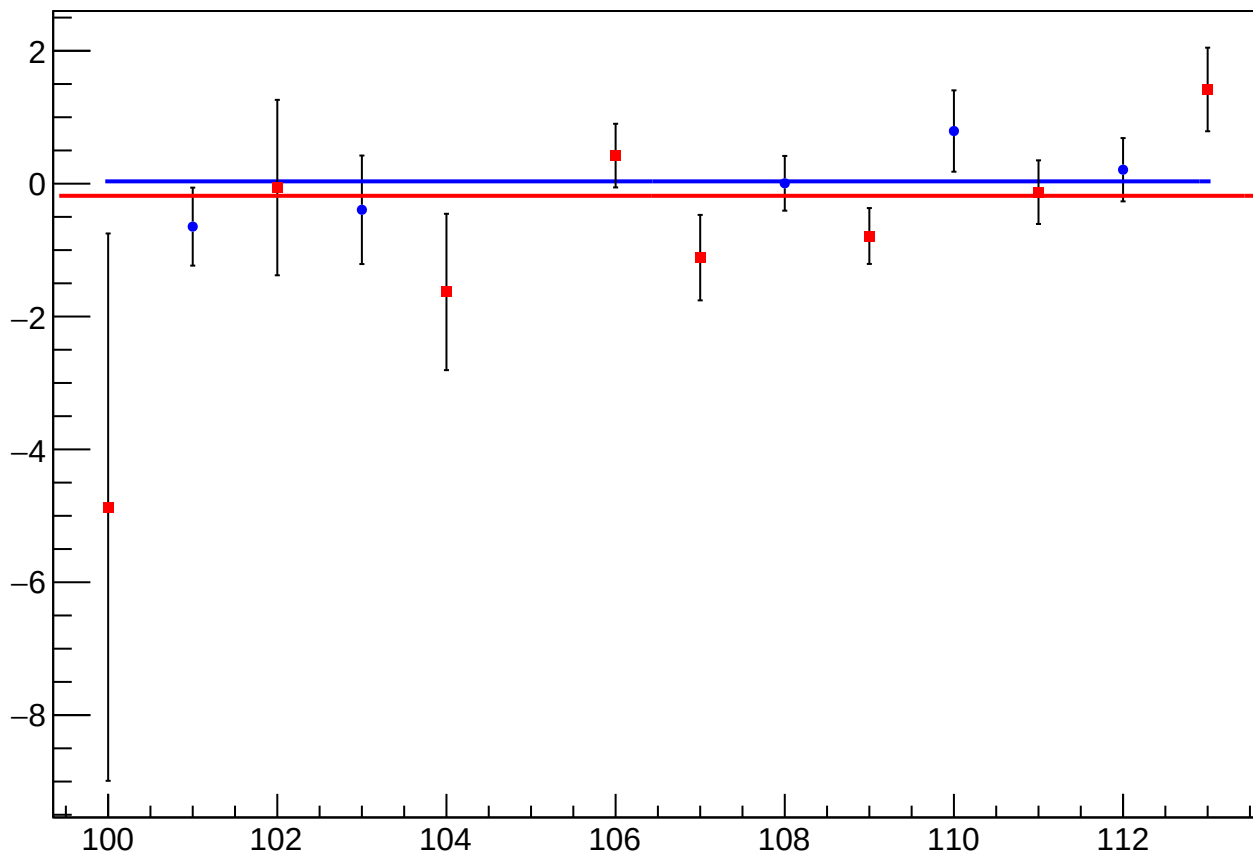
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 343.618+/-0.115  $\chi^2/\text{NDF}$ : 1123278.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.035 $\pm$ 0.240  $\chi^2$ /NDF: 3.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.183 $\pm$ 0.220  $\chi^2$ /NDF: 15.1/7

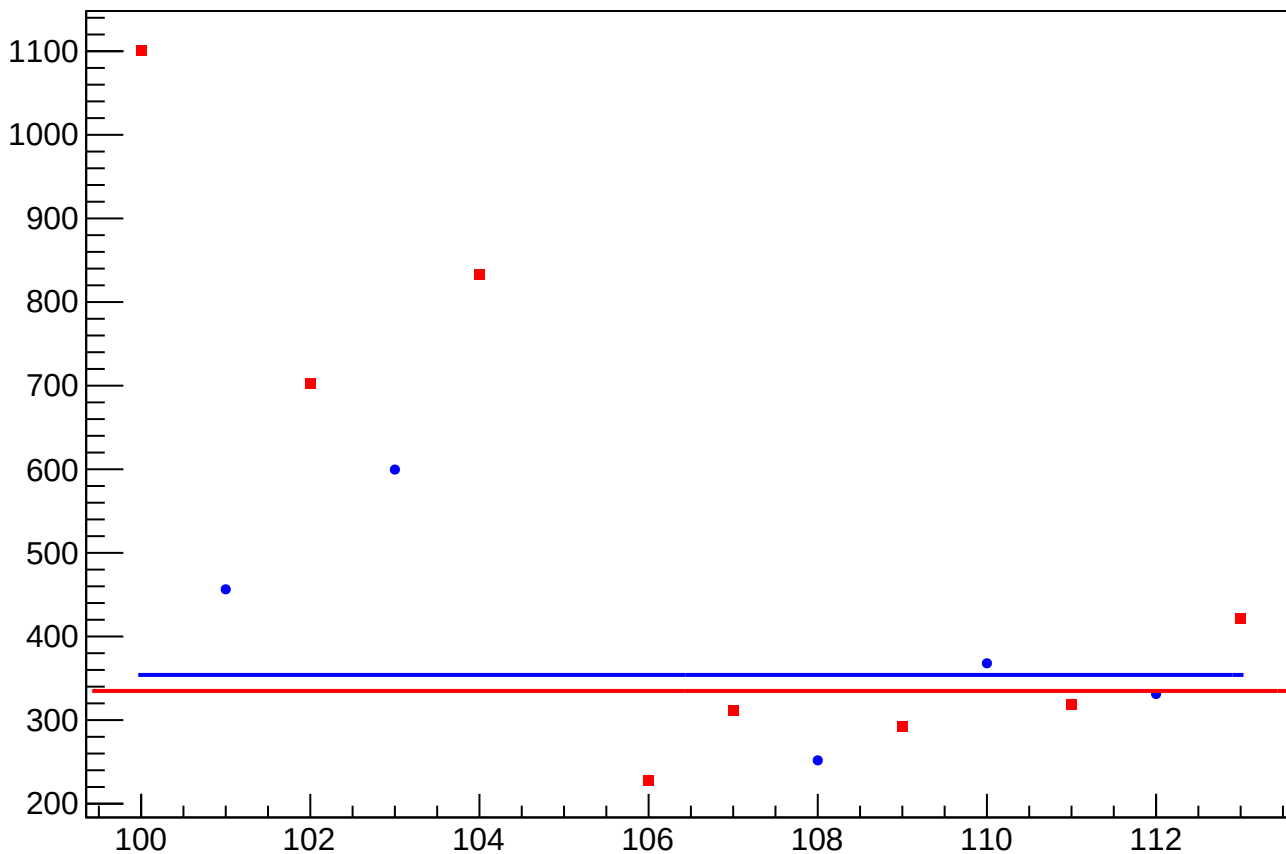
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.083 $\pm$ 0.162  $\chi^2$ /NDF: 18.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 354.029+/-0.170  $\chi^2/\text{NDF}$ : 370421.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 334.872+/-0.156  $\chi^2/\text{NDF}$ : 745929.5/7

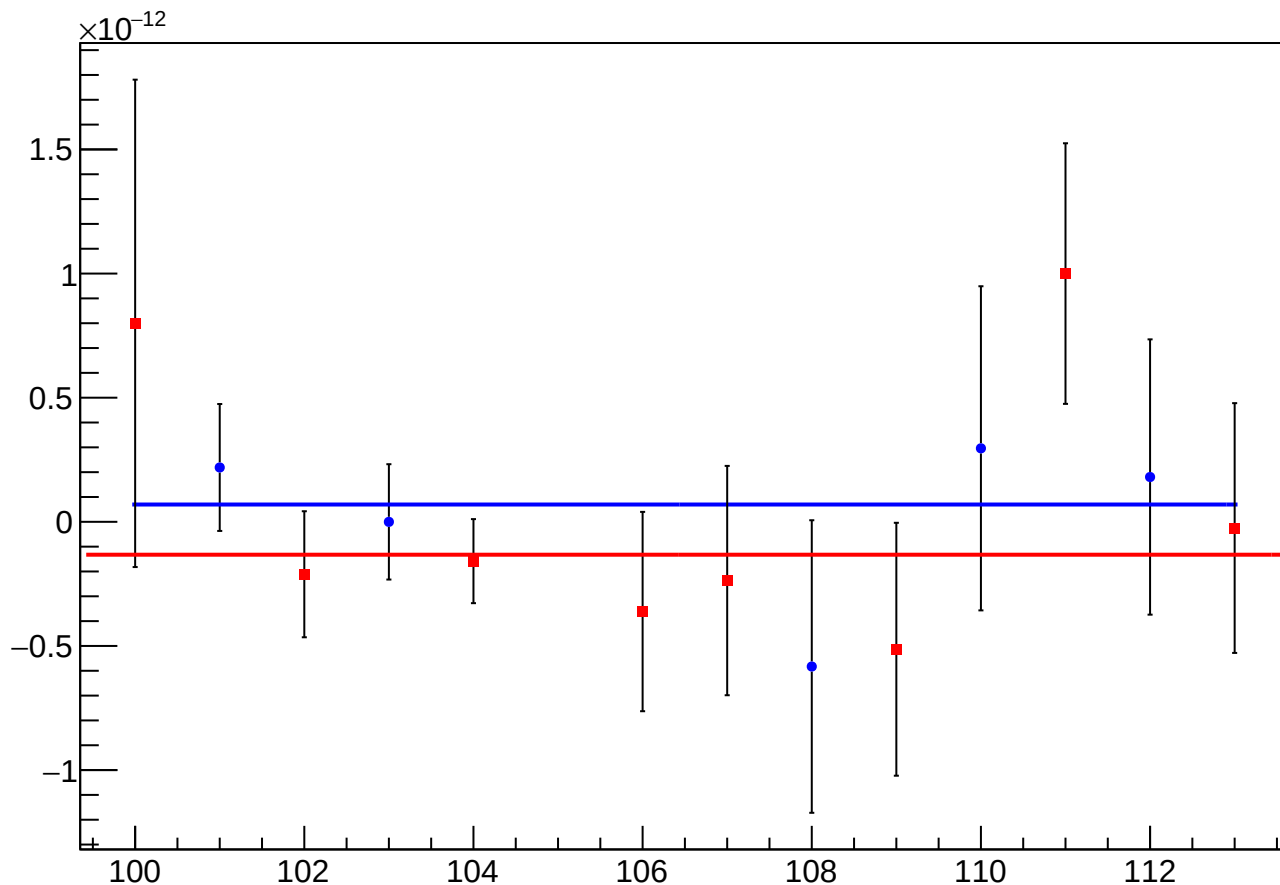
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 343.618+/-0.115  $\chi^2/\text{NDF}$ : 1123278.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.7/7

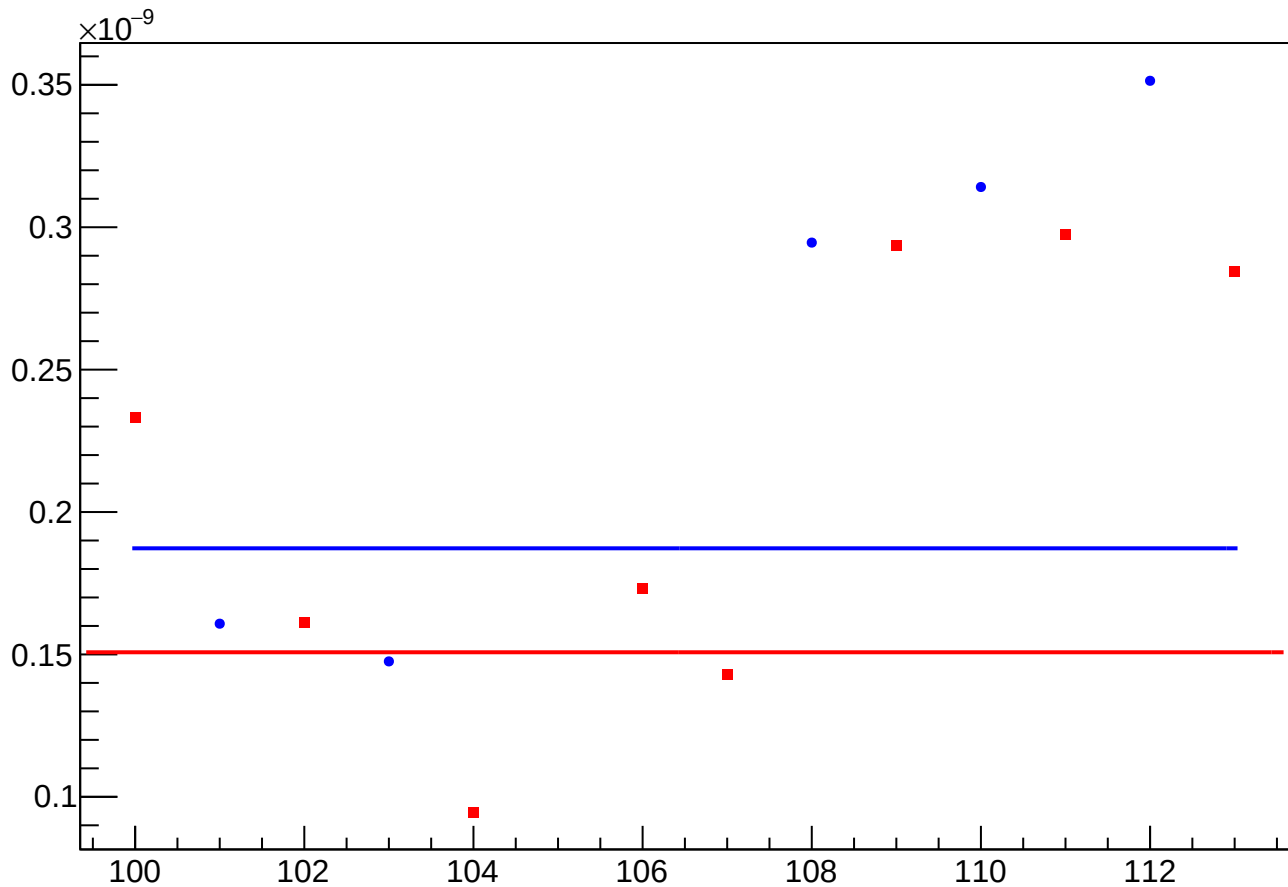
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 397122.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 699677.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

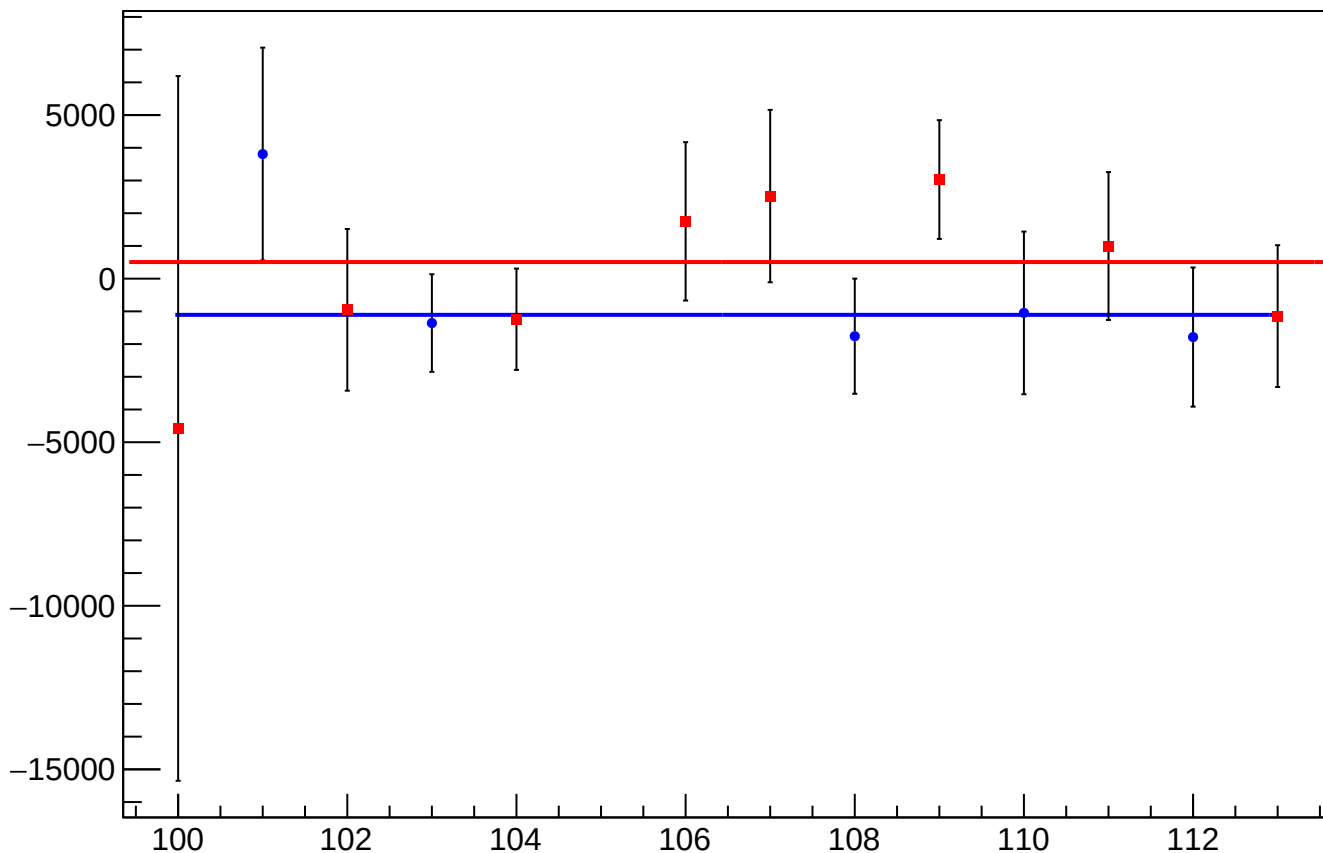
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1168468.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In: -1106.310 $\pm$ 894.567  $\chi^2$ /NDF: 2.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 507.779 $\pm$ 786.595  $\chi^2$ /NDF: 5.3/7

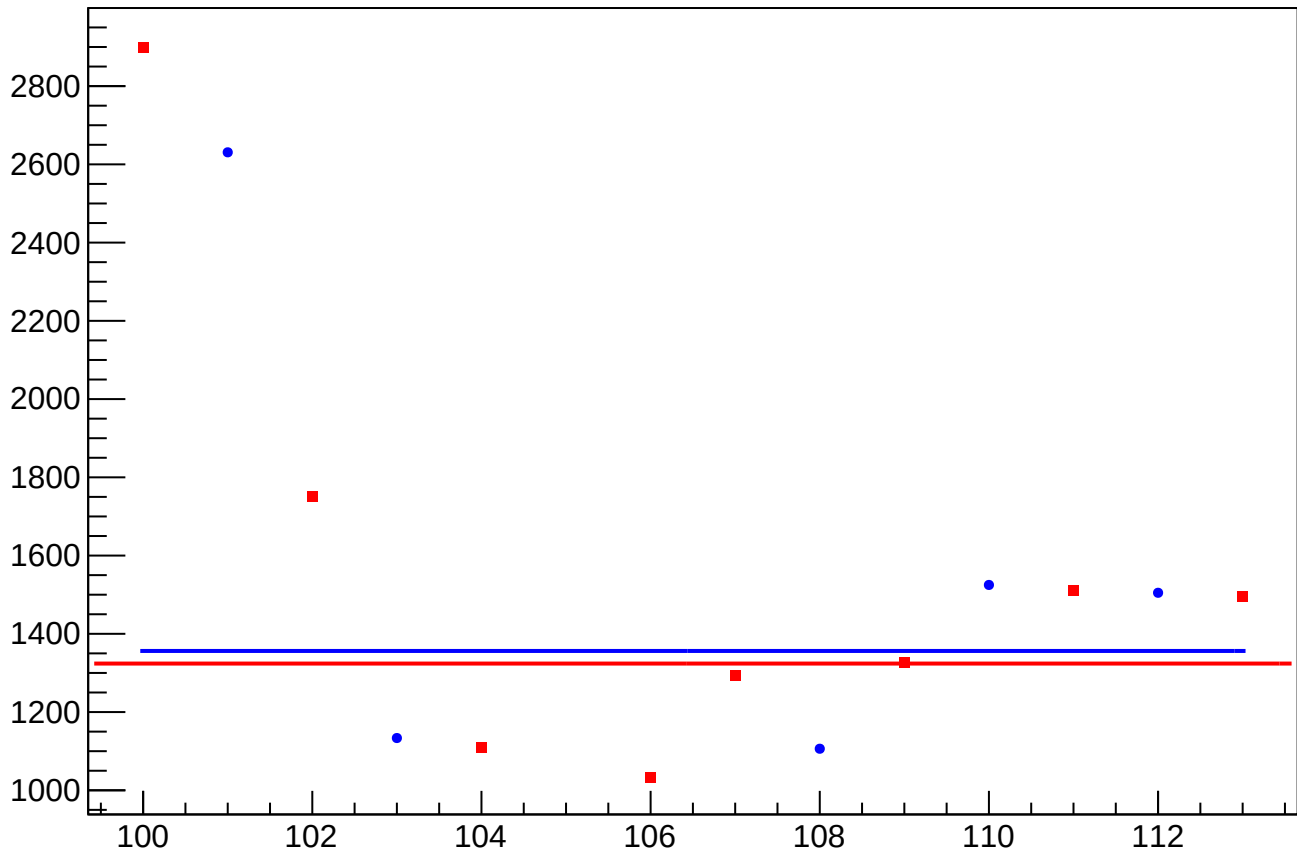
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -196.027 $\pm$ 590.712  $\chi^2$ /NDF: 9.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1356.195+/-0.633  $\chi^2/\text{NDF}$ : 411025.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1323.974+/-0.548  $\chi^2/\text{NDF}$ : 204383.7/7

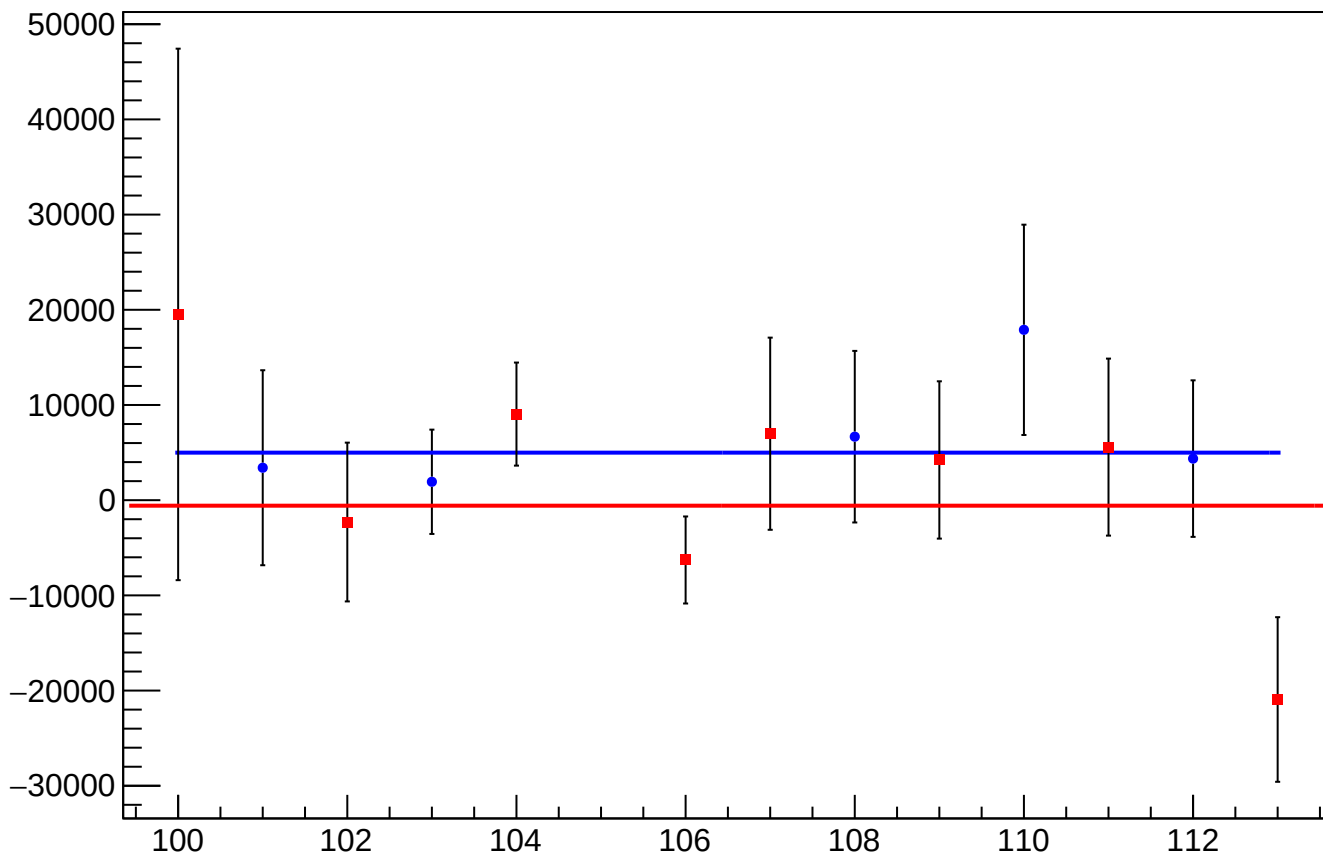
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1337.784+/-0.414  $\chi^2/\text{NDF}$ : 616891.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_reg\_correction\_mean vs Slug



Right In: 4993.453+/-3577.048  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -578.775+/-2607.733  $\chi^2/\text{NDF}$ : 12.2/7

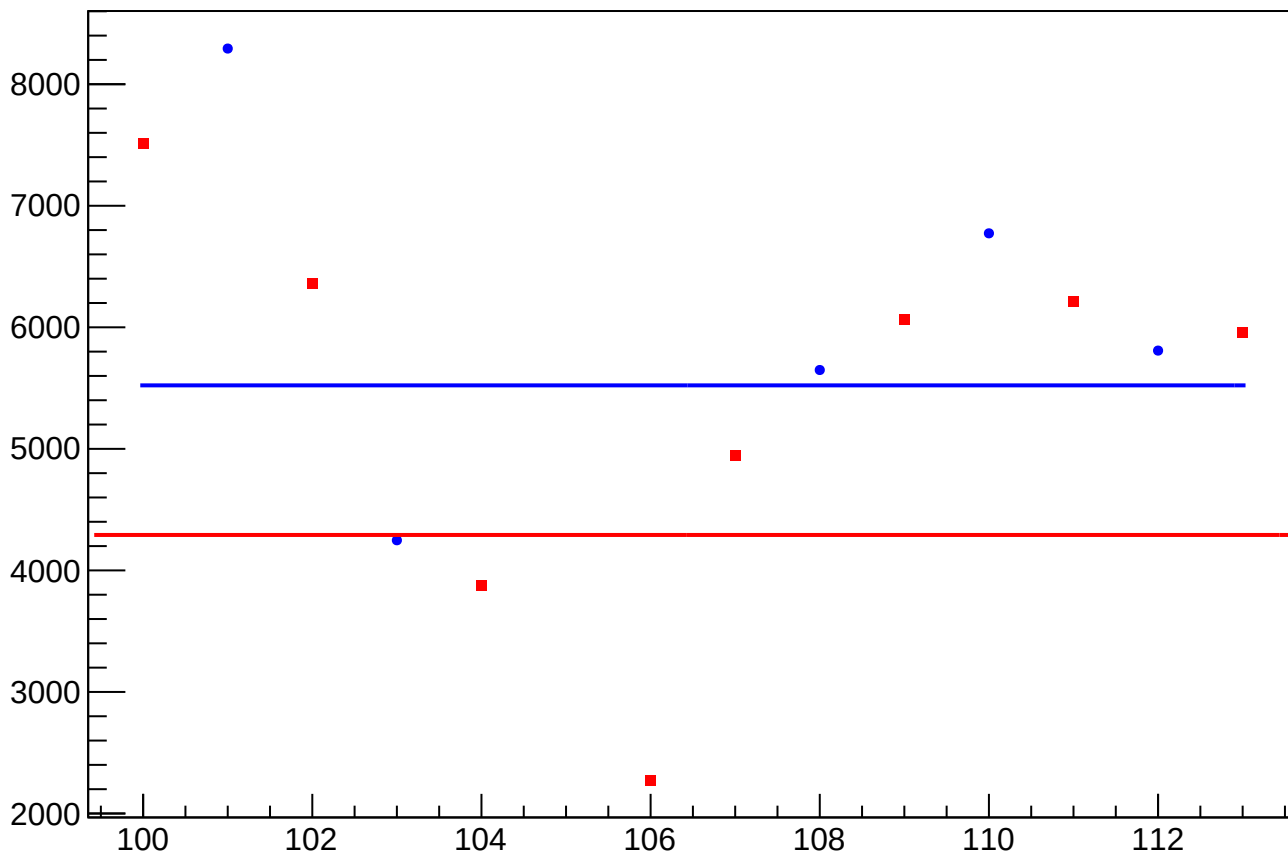
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1354.964+/-2107.217  $\chi^2/\text{NDF}$ : 15.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_reg\_correction\_rms vs Slug



Right In: 5522.364 $\pm$ 2.529  $\chi^2$ /NDF: 283073.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4291.597 $\pm$ 1.844  $\chi^2$ /NDF: 810958.7/7

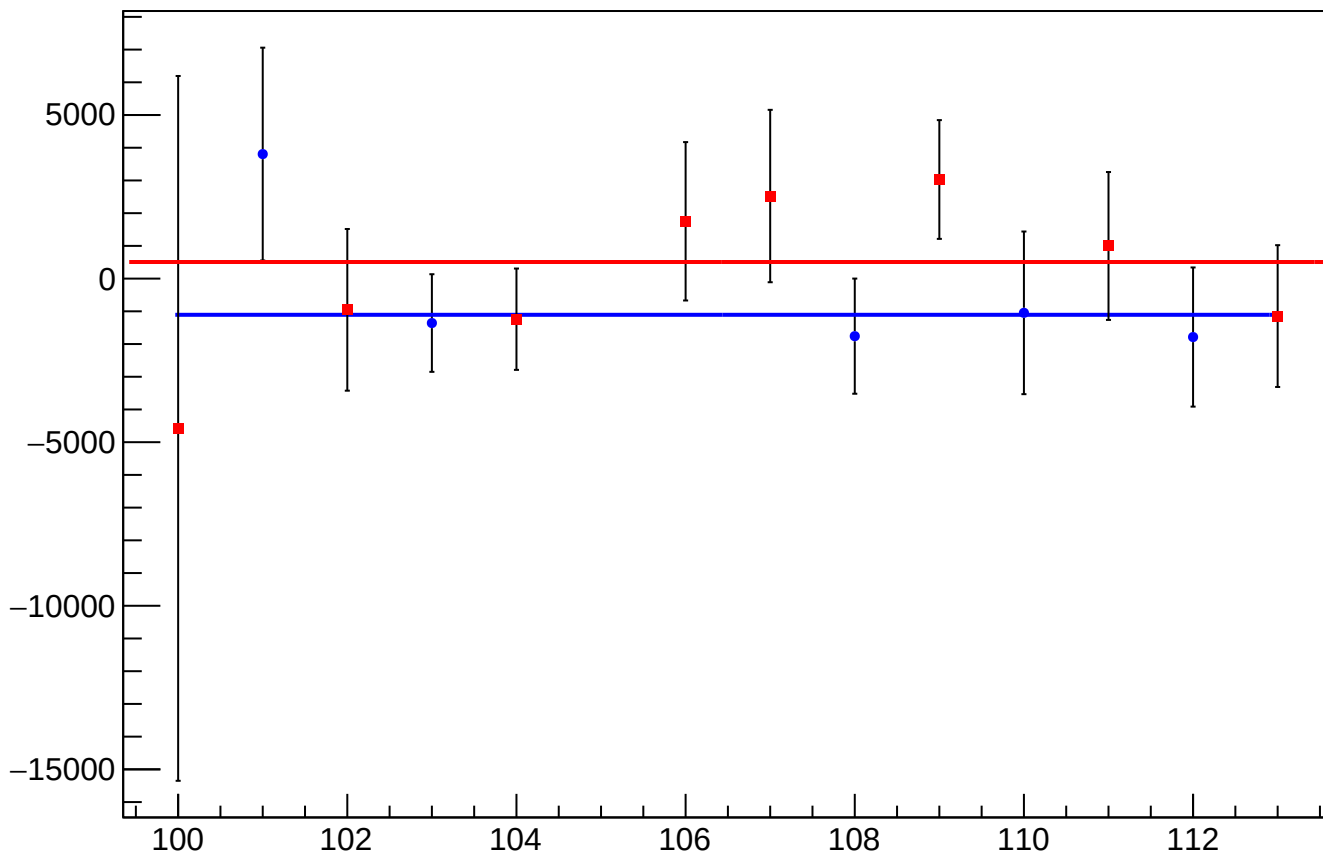
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4718.712 $\pm$ 1.490  $\chi^2$ /NDF: 1248637.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In: -1106.391 $\pm$ 894.567  $\chi^2$ /NDF: 2.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 507.479 $\pm$ 786.595  $\chi^2$ /NDF: 5.3/7

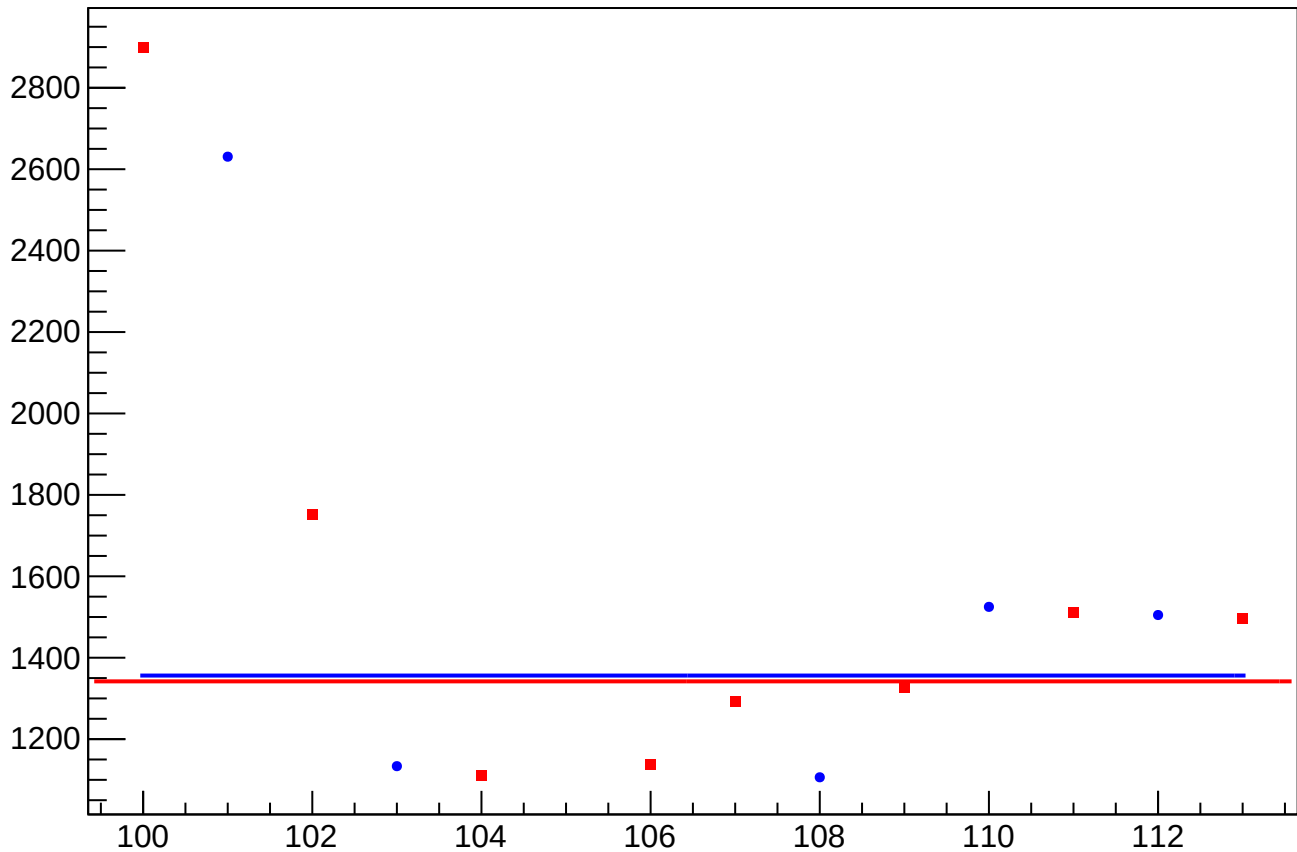
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -196.232 $\pm$ 590.712  $\chi^2$ /NDF: 9.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1356.195 $\pm$ 0.633  $\chi^2$ /NDF: 411025.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1341.914 $\pm$ 0.554  $\chi^2$ /NDF: 179127.4/7

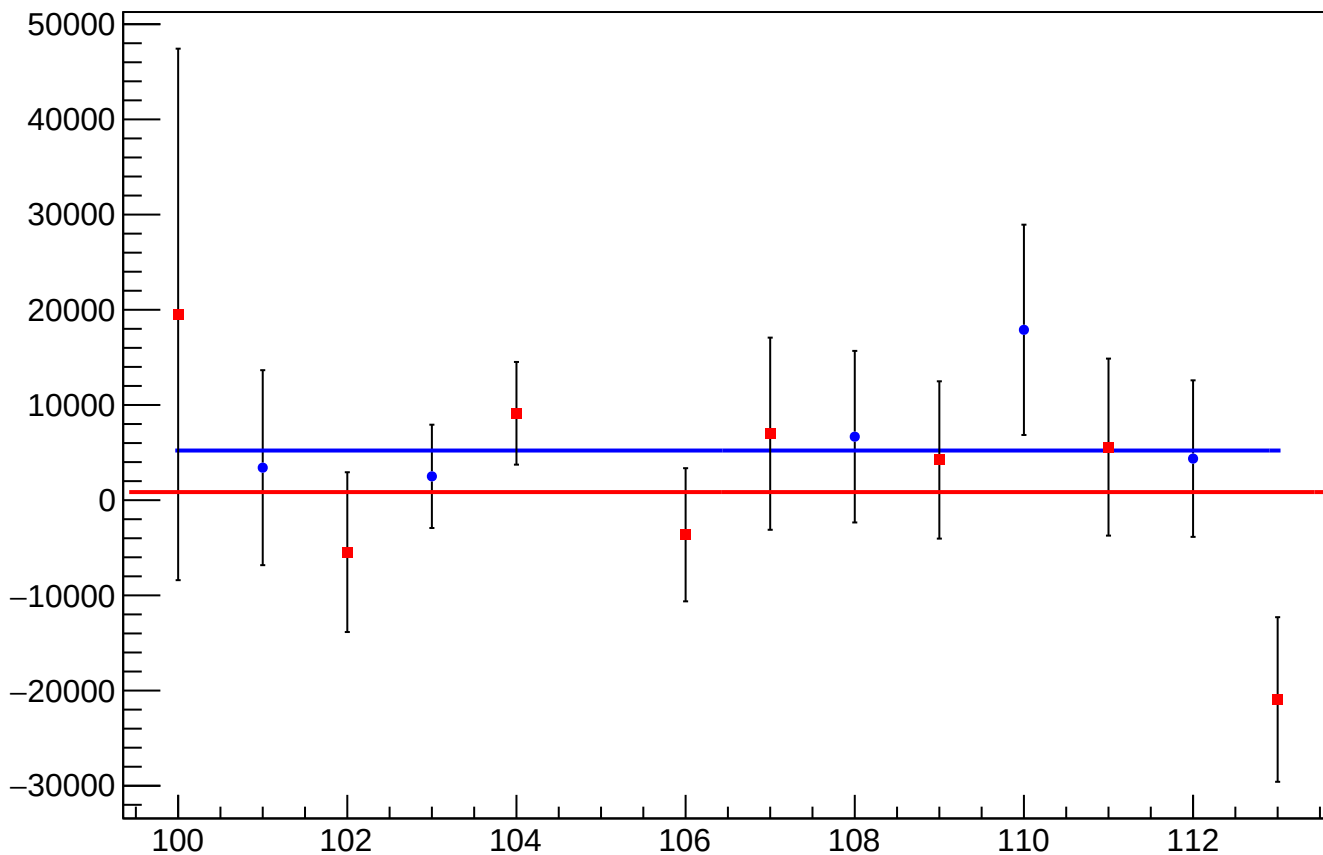
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1348.108 $\pm$ 0.417  $\chi^2$ /NDF: 590441.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_cor\_correction\_mean vs Slug



Right In: 5215.173+/-3562.323  $\chi^2/\text{NDF}$ : 1.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 850.557+/-2890.305  $\chi^2/\text{NDF}$ : 10.9/7

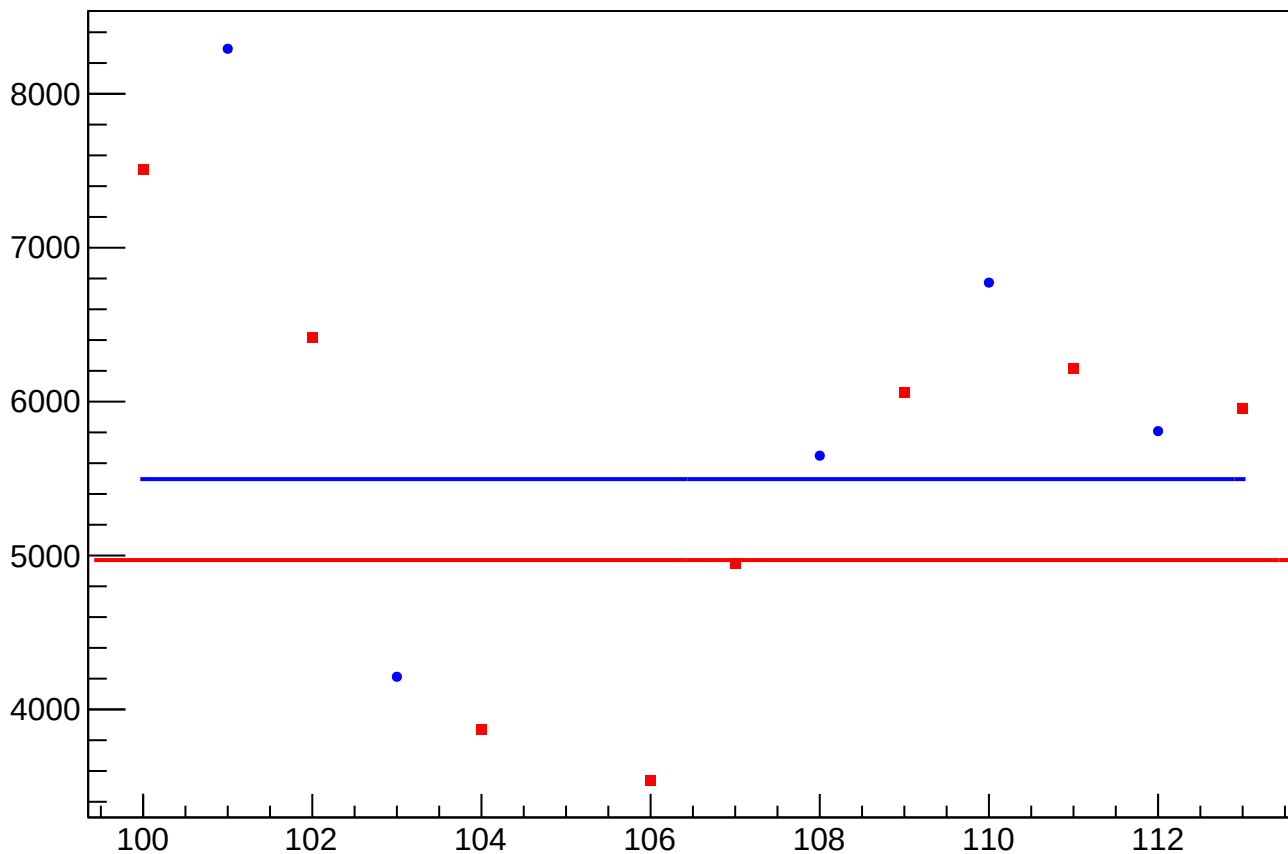
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2583.184+/-2244.465  $\chi^2/\text{NDF}$ : 13.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_cor\_correction\_rms vs Slug



Right In: 5496.467 $\pm$ 2.519  $\chi^2$ /NDF: 291282.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4970.430 $\pm$ 2.044  $\chi^2$ /NDF: 339762.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

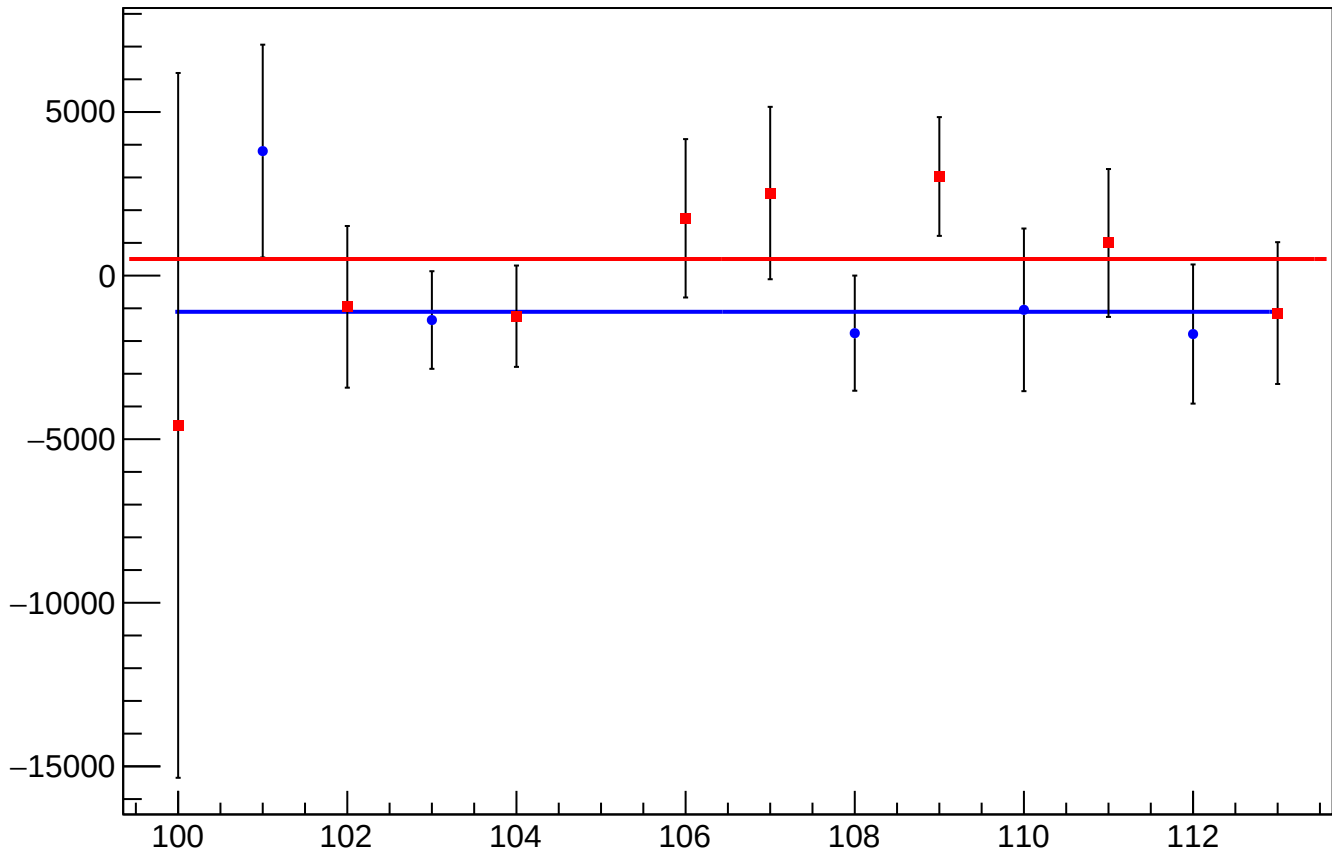
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5179.252 $\pm$ 1.587  $\chi^2$ /NDF: 657343.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In: -1106.391+/-894.567  $\chi^2/\text{NDF}$ : 2.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 507.479+/-786.595  $\chi^2/\text{NDF}$ : 5.3/7

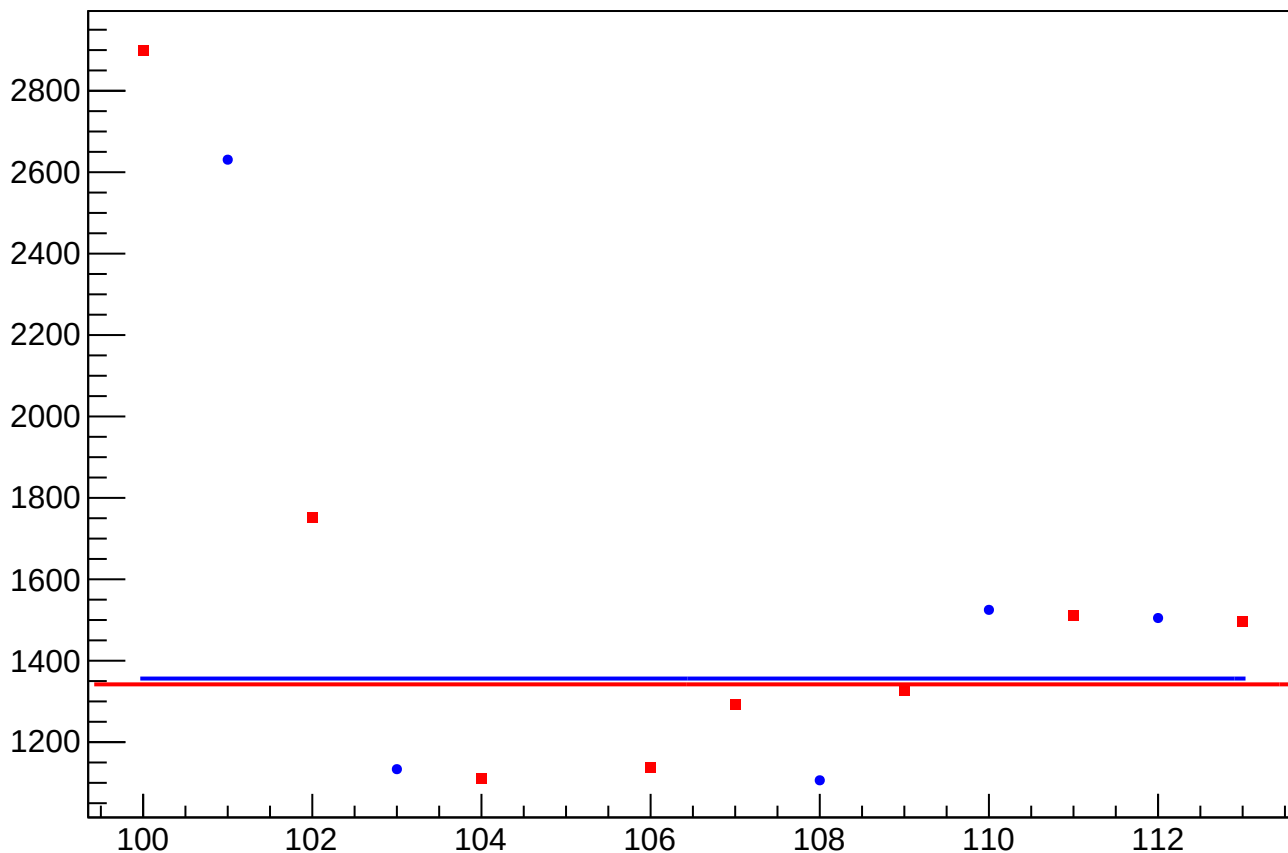
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -196.232+/-590.712  $\chi^2/\text{NDF}$ : 9.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1356.195 $\pm$ 0.633  $\chi^2$ /NDF: 411025.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1341.914 $\pm$ 0.554  $\chi^2$ /NDF: 179127.4/7

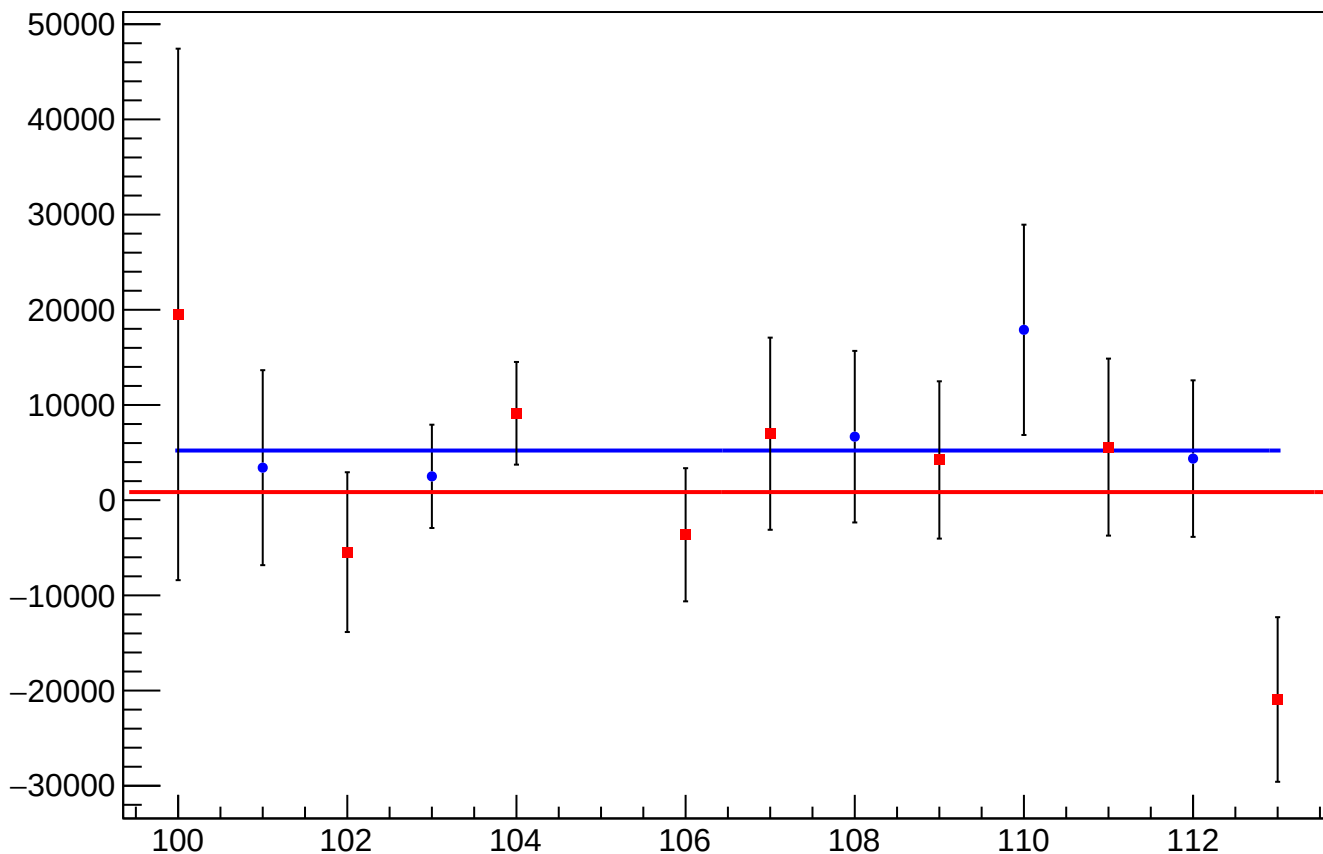
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1348.108 $\pm$ 0.417  $\chi^2$ /NDF: 590441.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 5215.173+/-3562.323  $\chi^2/\text{NDF}$ : 1.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 850.557+/-2890.305  $\chi^2/\text{NDF}$ : 10.9/7

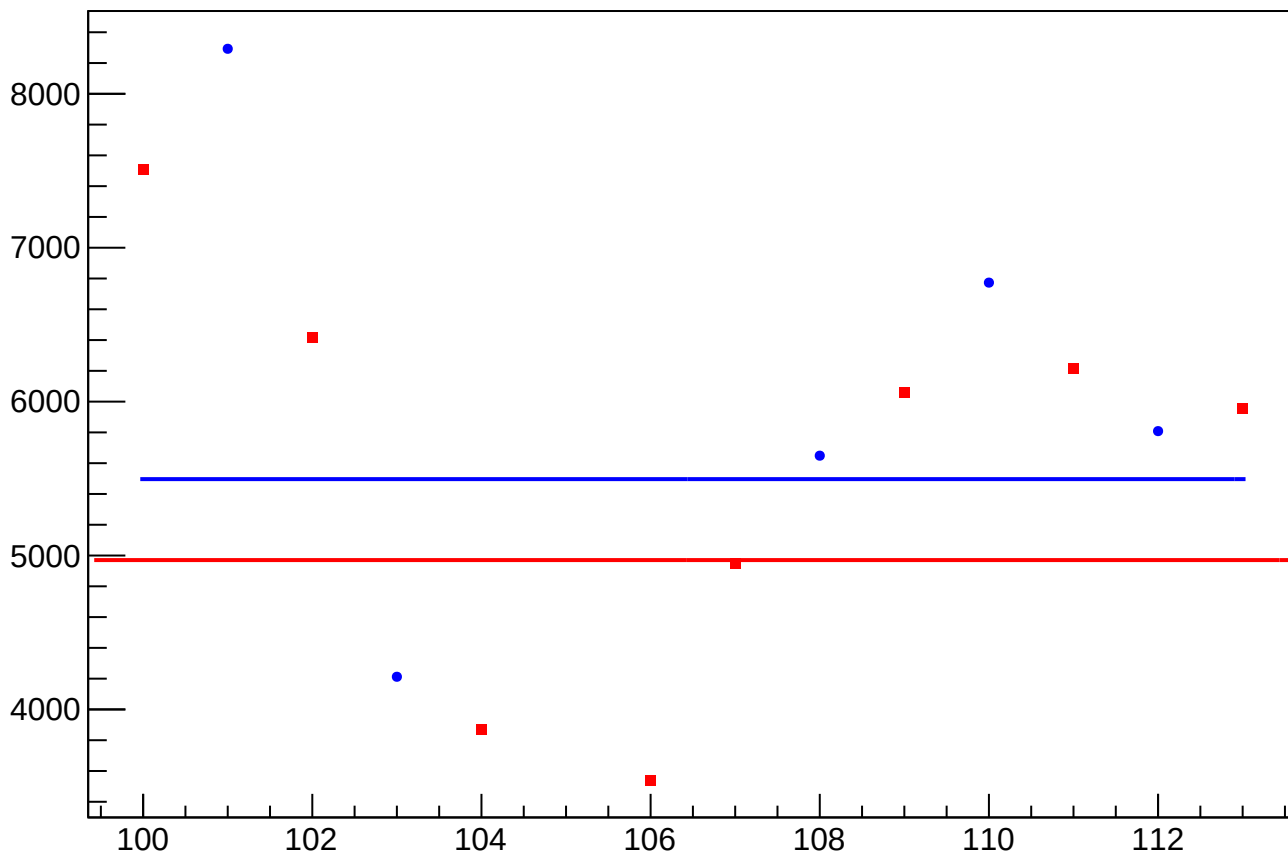
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2583.184+/-2244.465  $\chi^2/\text{NDF}$ : 13.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 5496.467+/-2.519  $\chi^2/\text{NDF}$ : 291282.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4970.430+/-2.044  $\chi^2/\text{NDF}$ : 339762.0/7

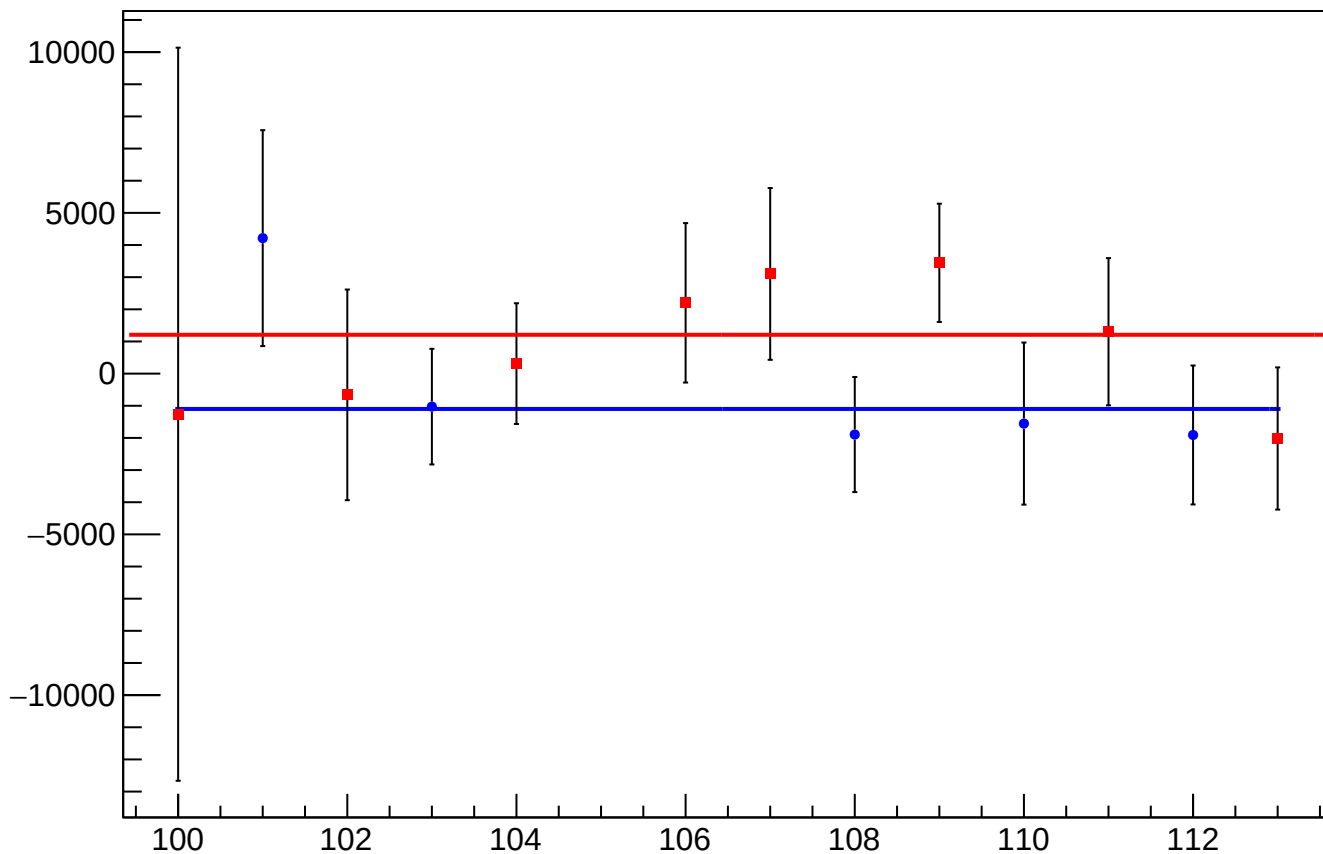
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5179.252+/-1.587  $\chi^2/\text{NDF}$ : 657343.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In: -1098.648 $\pm$ 961.654  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1207.724 $\pm$ 851.898  $\chi^2$ /NDF: 4.9/7

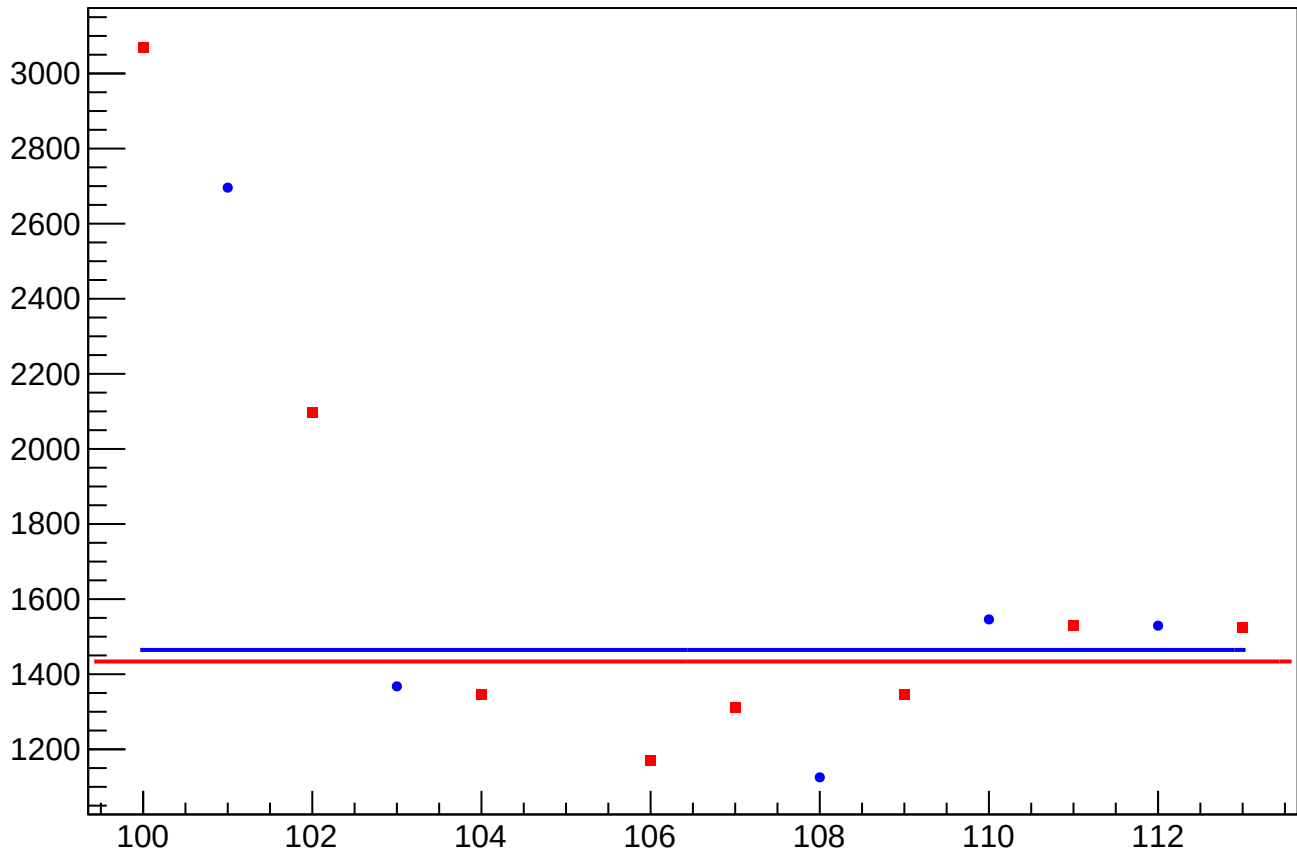
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 193.611 $\pm$ 637.672  $\chi^2$ /NDF: 11.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1464.700+/-0.680  $\chi^2/\text{NDF}$ : 350437.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1433.857+/-0.602  $\chi^2/\text{NDF}$ : 165949.8/7

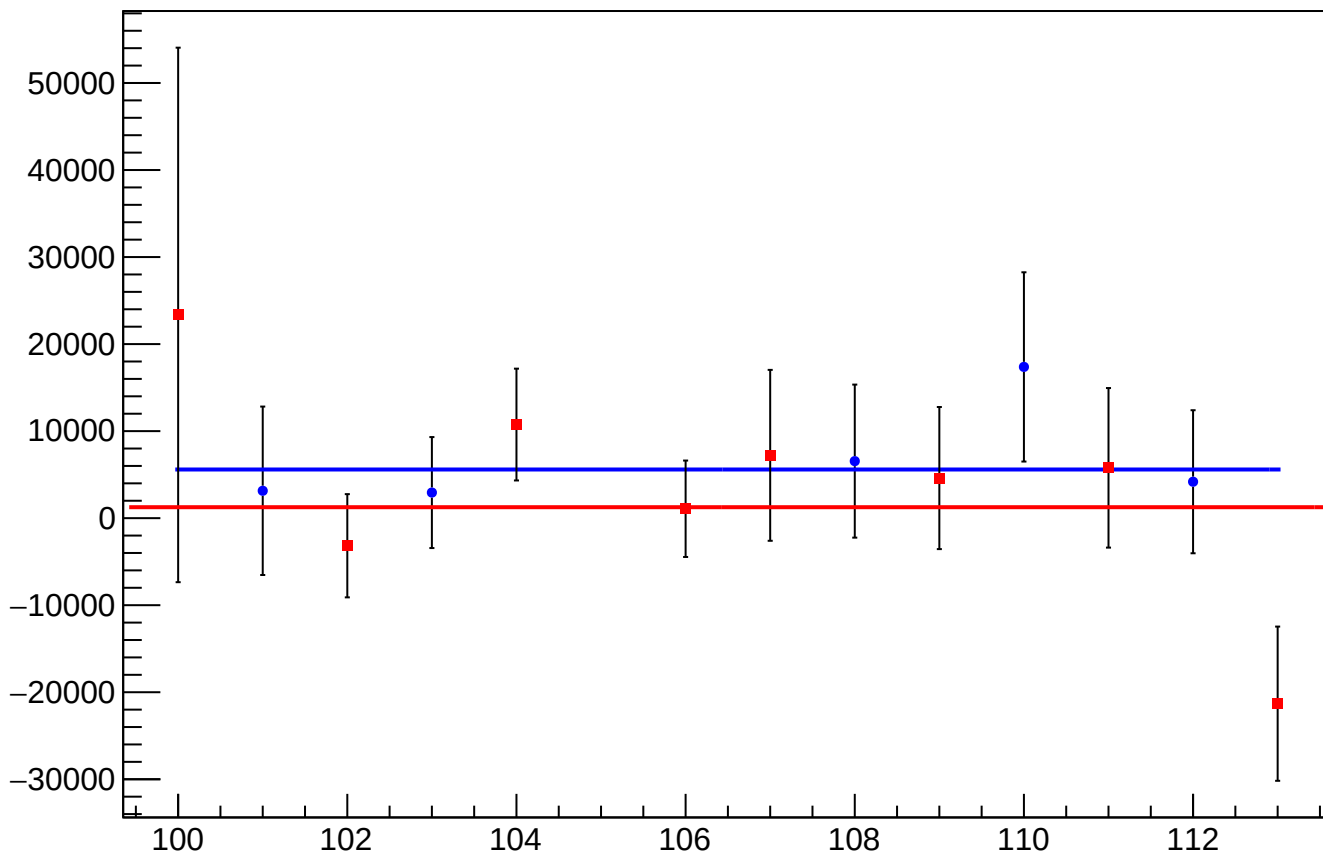
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1447.409+/-0.451  $\chi^2/\text{NDF}$ : 517541.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_dit\_correction\_mean vs Slug



Right In: 5590.894 $\pm$ 3740.239  $\chi^2$ /NDF: 1.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1259.141 $\pm$ 2708.296  $\chi^2$ /NDF: 10.5/7

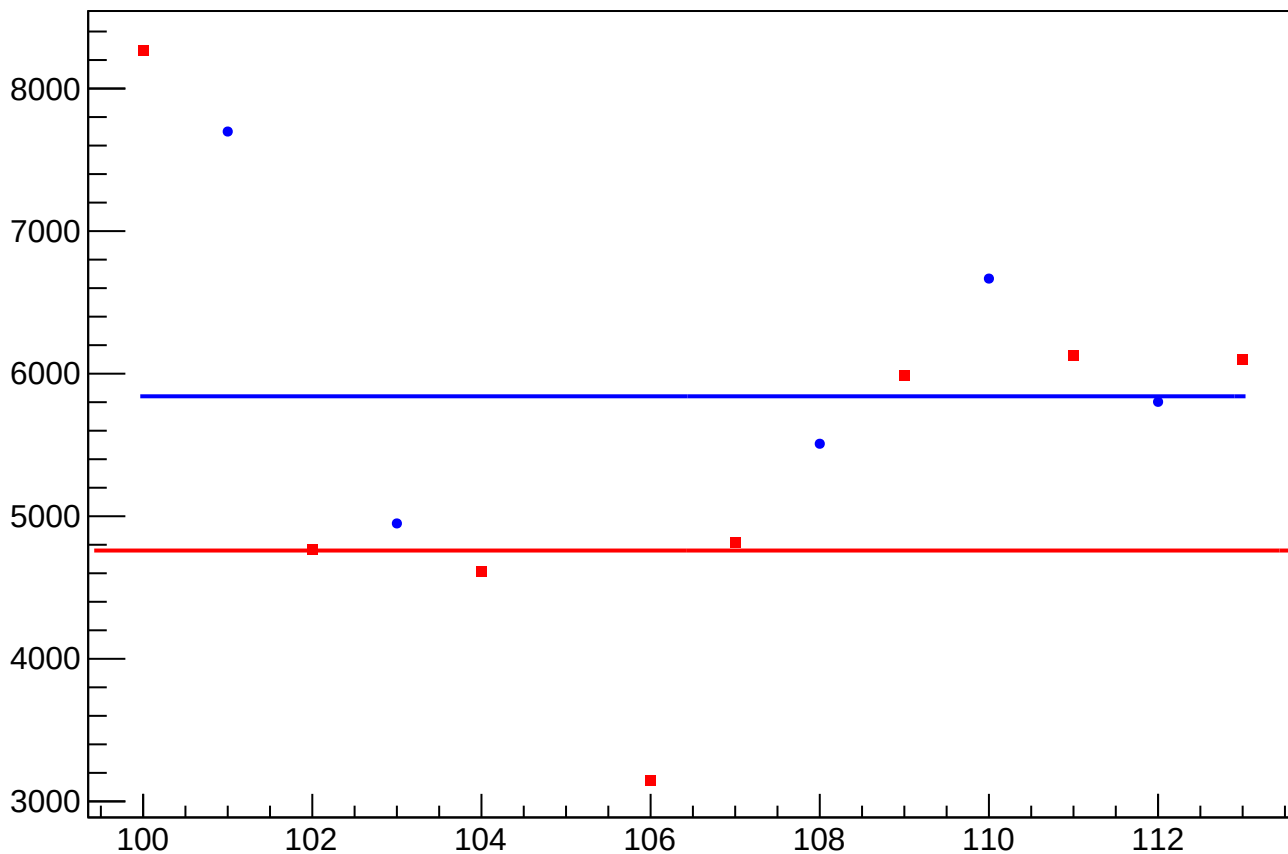
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2749.127 $\pm$ 2193.606  $\chi^2$ /NDF: 12.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_dit\_correction\_rms vs Slug



Right In: 5841.372 $\pm$ 2.645  $\chi^2$ /NDF: 127241.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4759.532 $\pm$ 1.915  $\chi^2$ /NDF: 331654.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

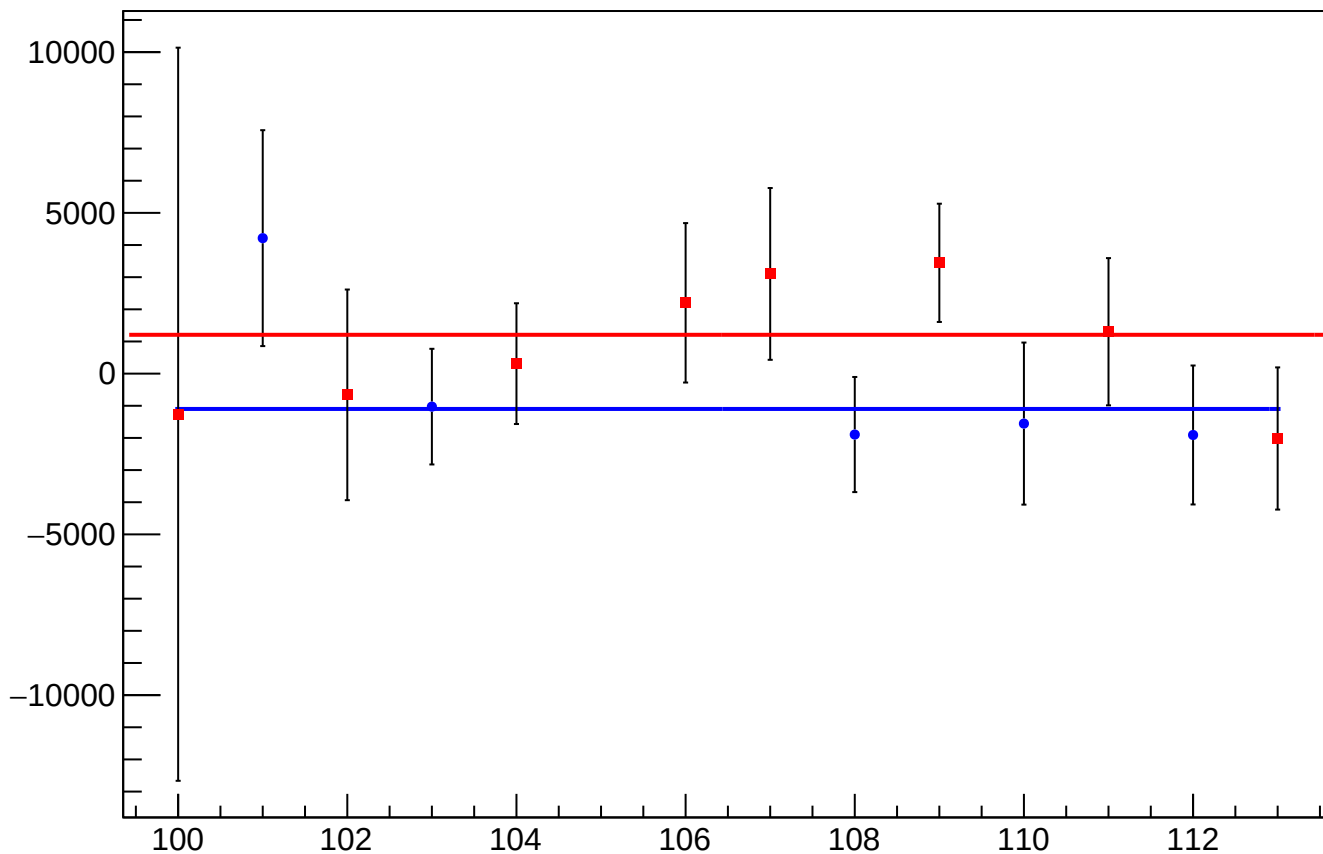
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5131.651 $\pm$ 1.551  $\chi^2$ /NDF: 568665.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



eigen\_dit\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In: -1098.656 $\pm$ 961.655  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1207.739 $\pm$ 851.898  $\chi^2$ /NDF: 4.9/7

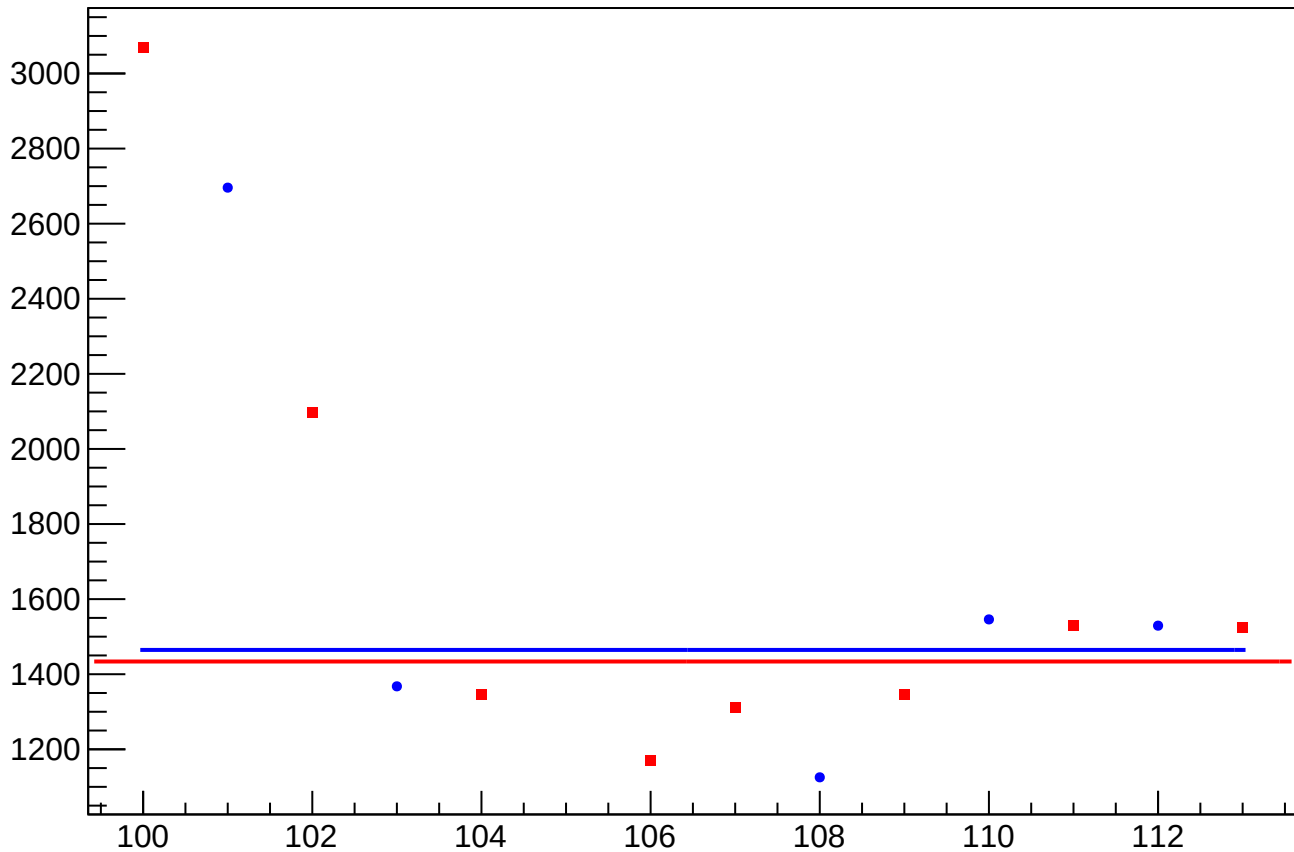
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 193.616 $\pm$ 637.673  $\chi^2$ /NDF: 11.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1464.701+/-0.680  $\chi^2/\text{NDF}$ : 350437.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1433.857+/-0.602  $\chi^2/\text{NDF}$ : 165950.1/7

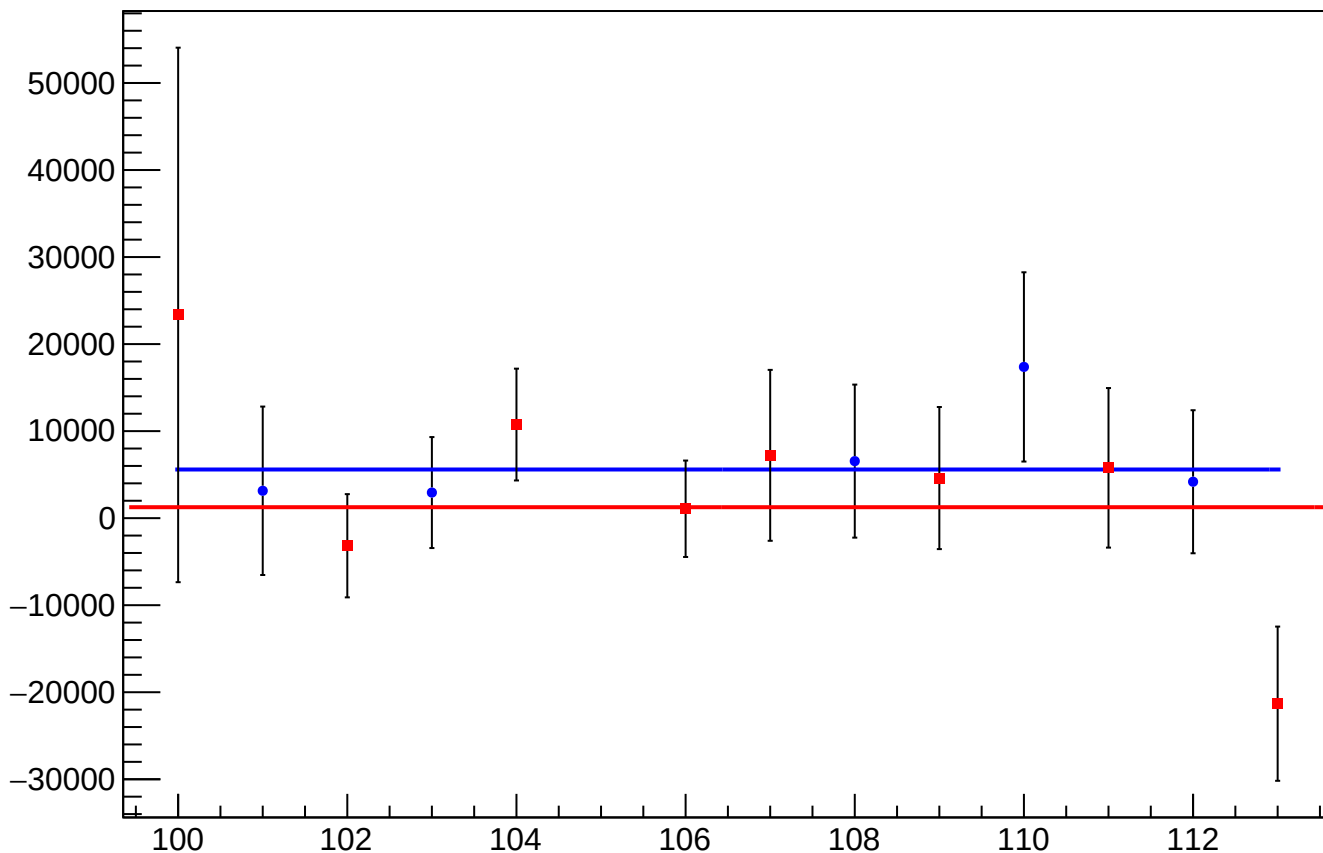
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1447.410+/-0.451  $\chi^2/\text{NDF}$ : 517540.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 5590.894+/-3740.236  $\chi^2/\text{NDF}$ : 1.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1259.152+/-2708.293  $\chi^2/\text{NDF}$ : 10.5/7

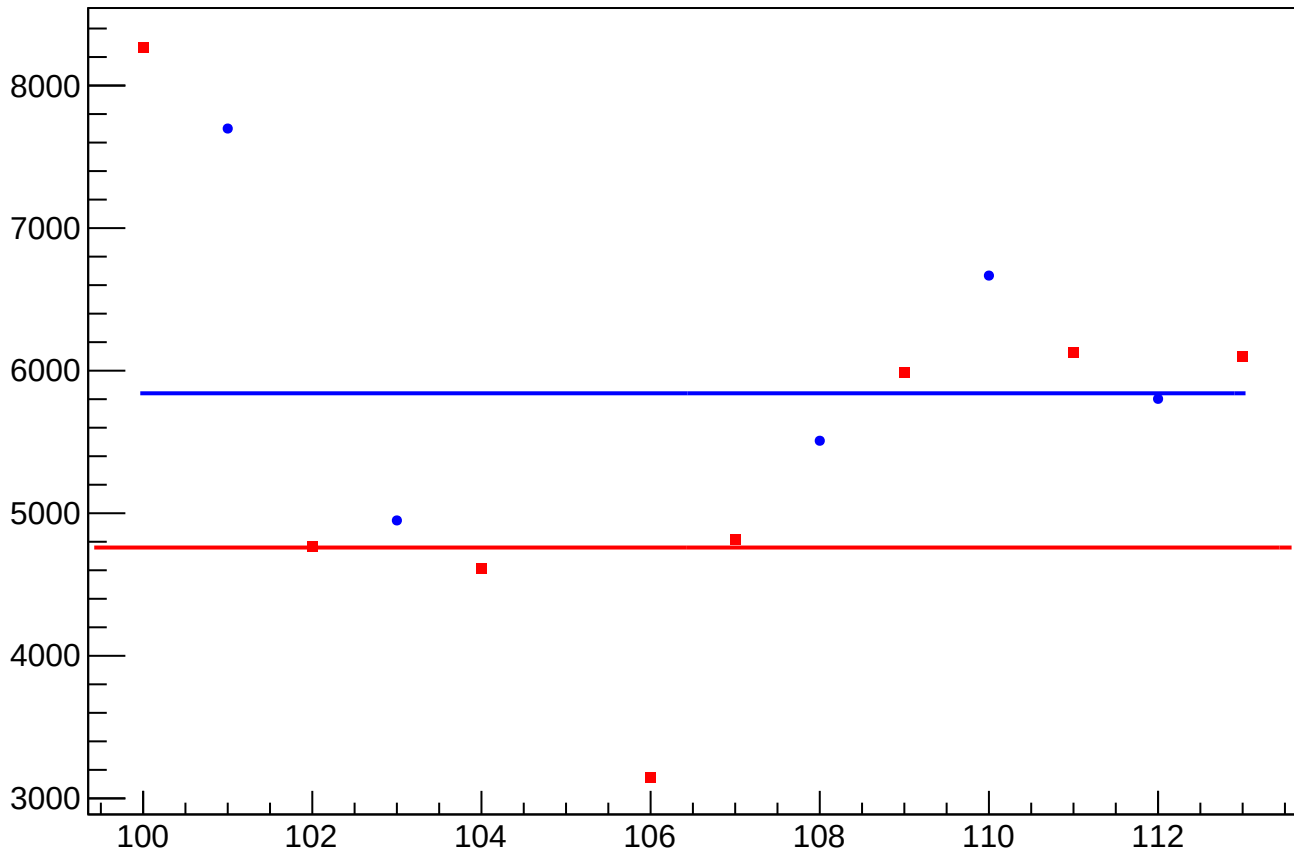
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2749.133+/-2193.603  $\chi^2/\text{NDF}$ : 12.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 5841.367 $\pm$ 2.645  $\chi^2$ /NDF: 127240.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4759.525 $\pm$ 1.915  $\chi^2$ /NDF: 331656.3/7

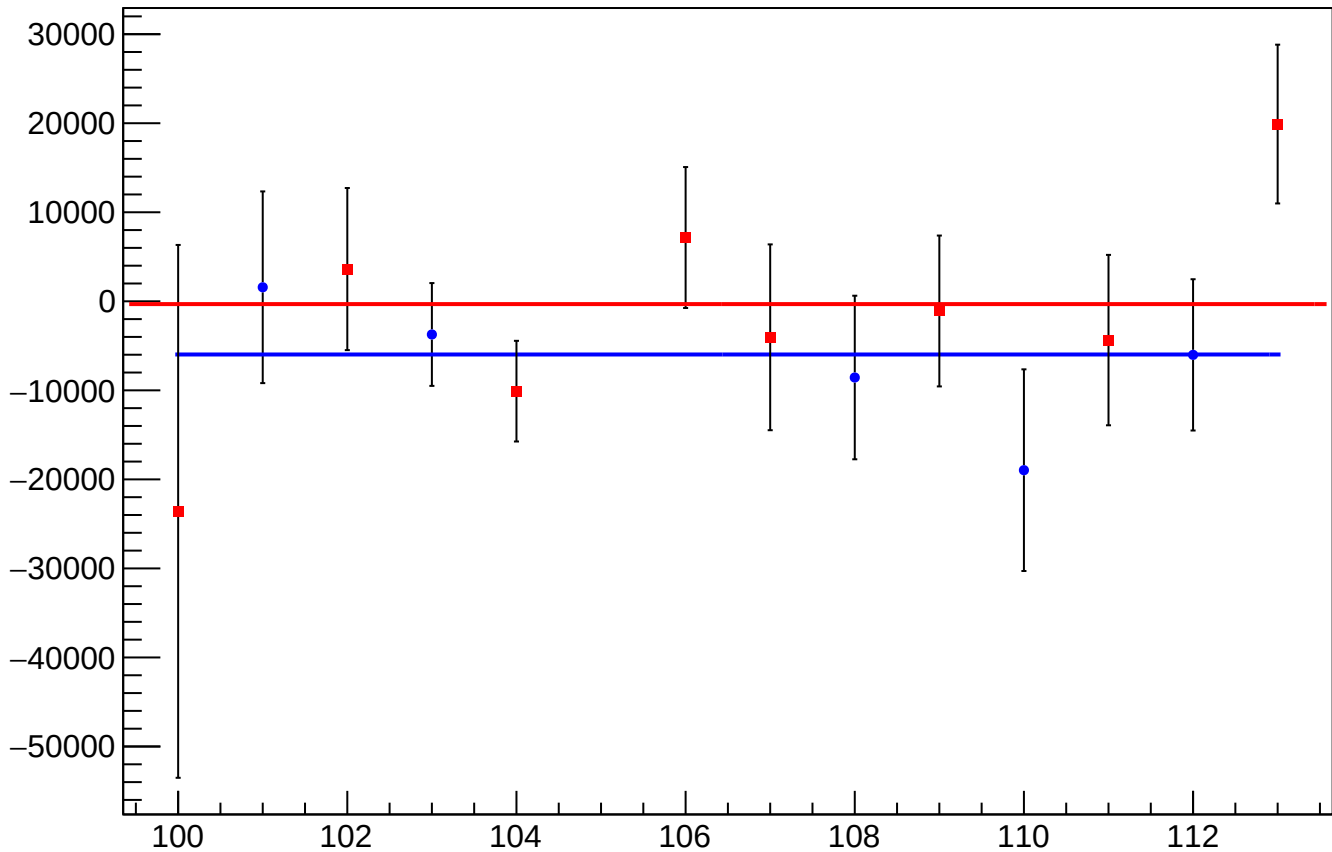
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5131.644 $\pm$ 1.551  $\chi^2$ /NDF: 568666.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In: -5973.299+/-3723.318  $\chi^2/\text{NDF}$ : 2.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -313.586+/-3056.378  $\chi^2/\text{NDF}$ : 10.1/7

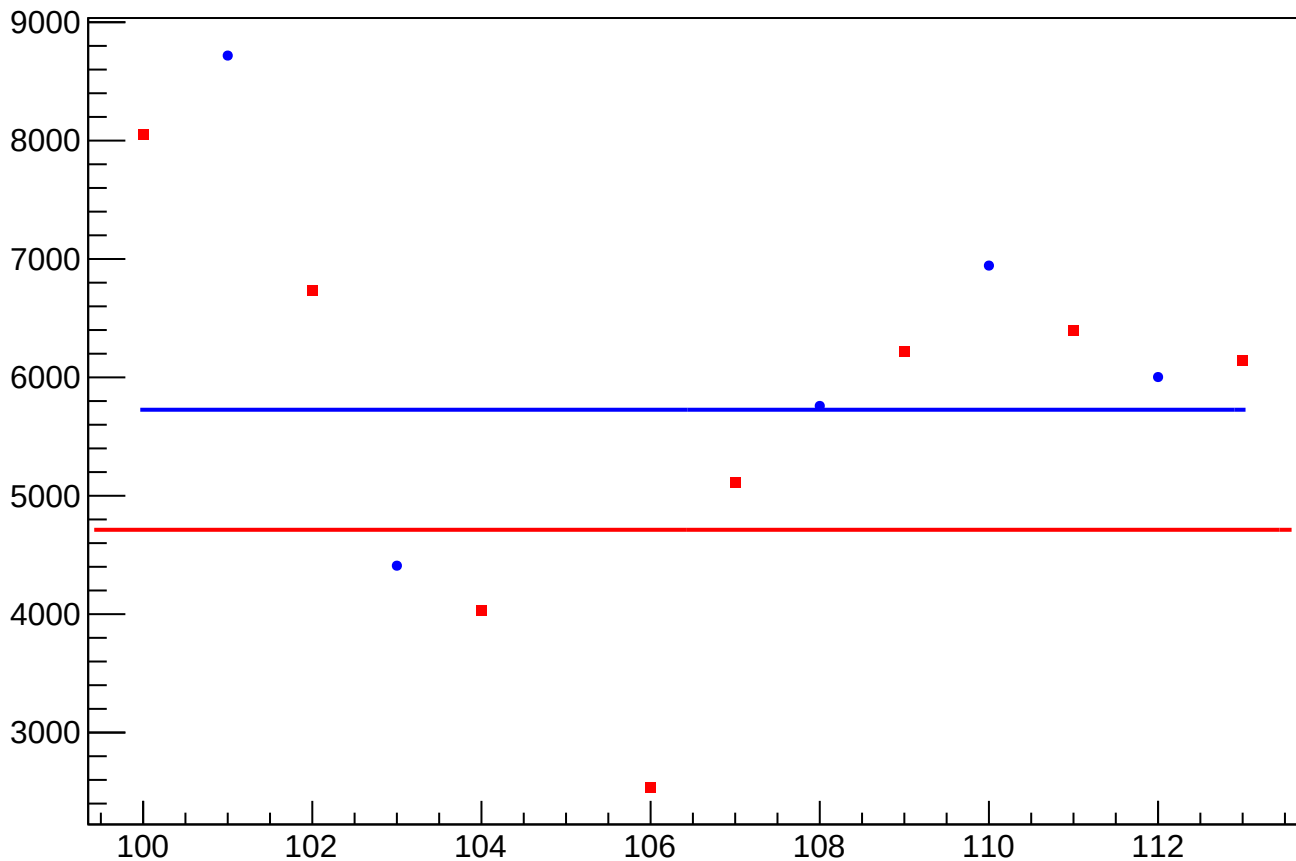
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2592.016+/-2362.385  $\chi^2/\text{NDF}$ : 13.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 5726.678+/-2.633  $\chi^2/\text{NDF}$ : 283820.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4712.619+/-2.022  $\chi^2/\text{NDF}$ : 627066.1/7

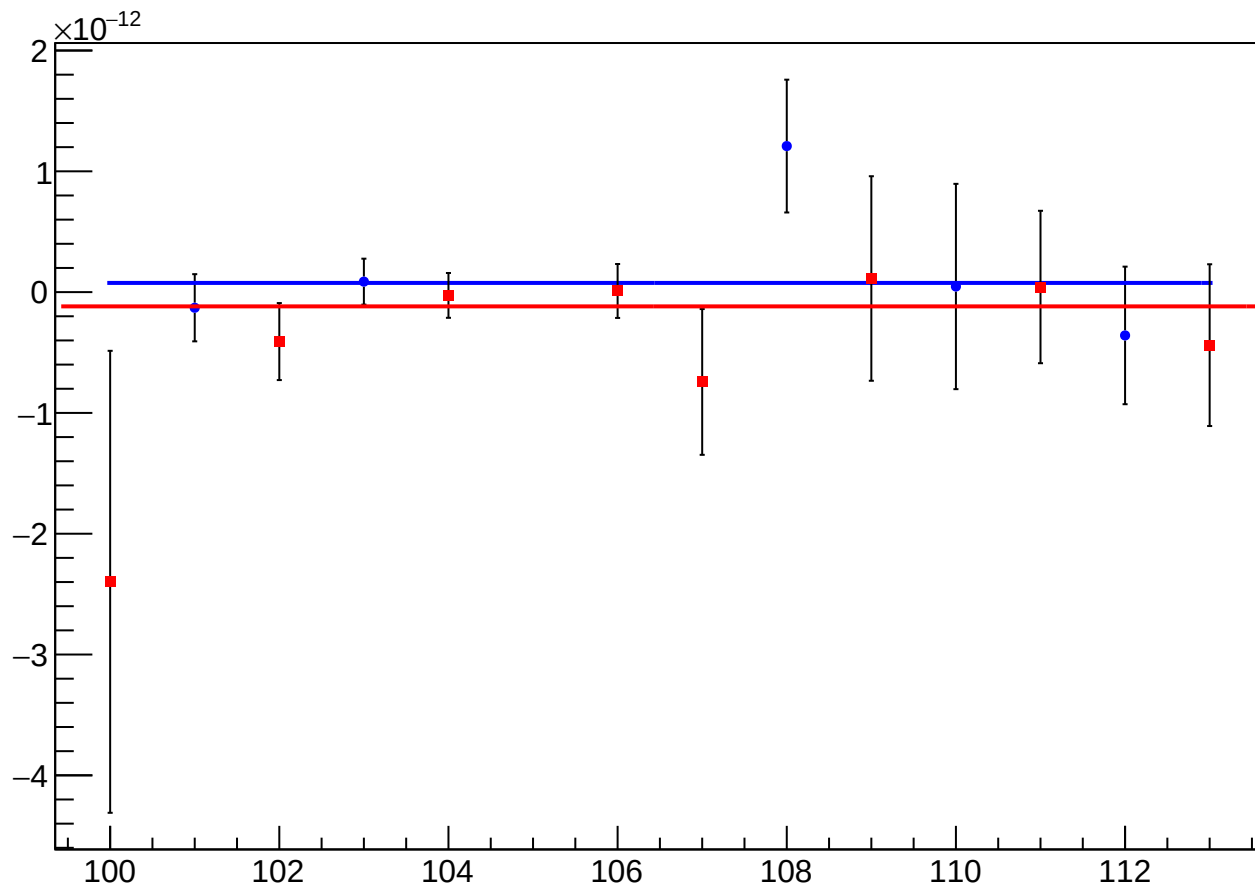
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5088.788+/-1.603  $\chi^2/\text{NDF}$ : 1004210.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.3/7

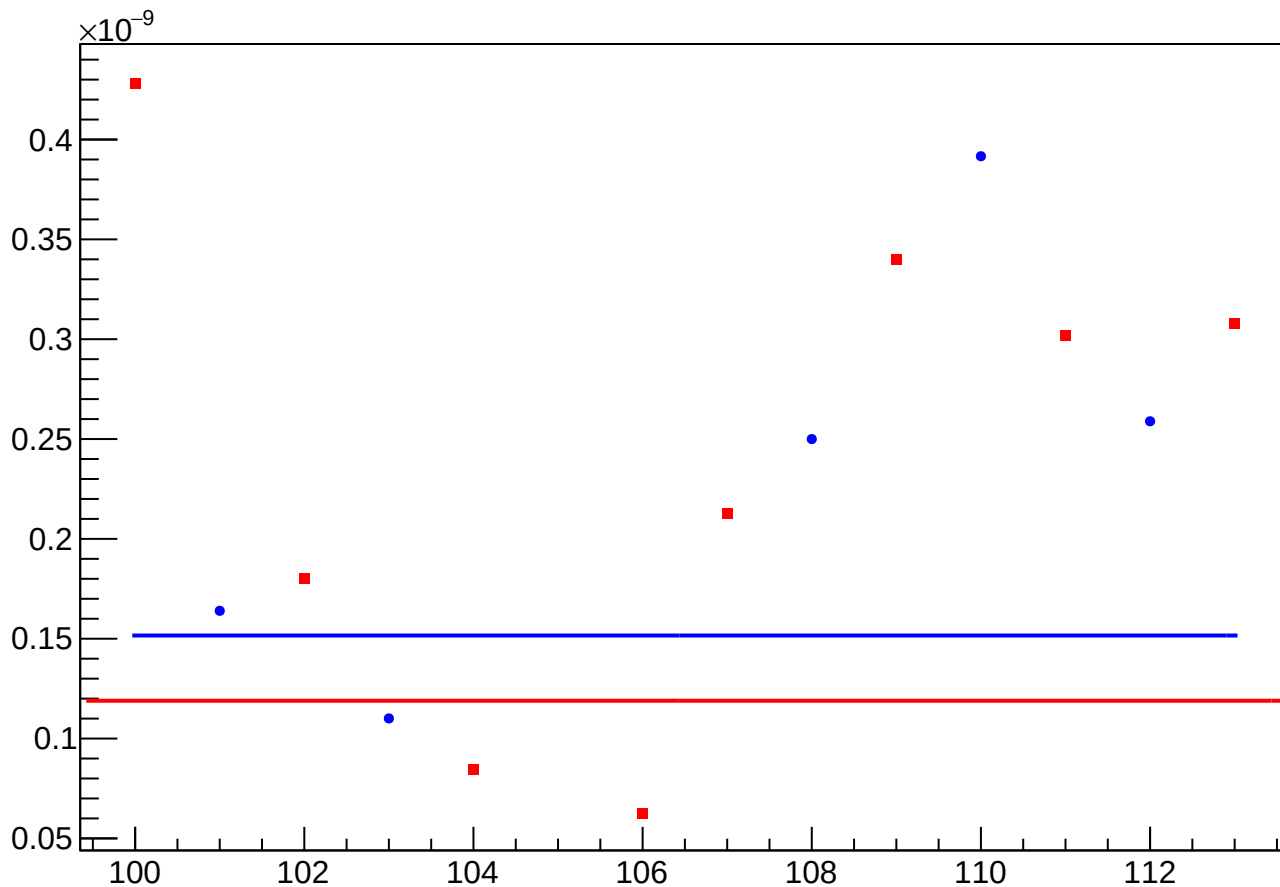
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 394047.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 835775.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

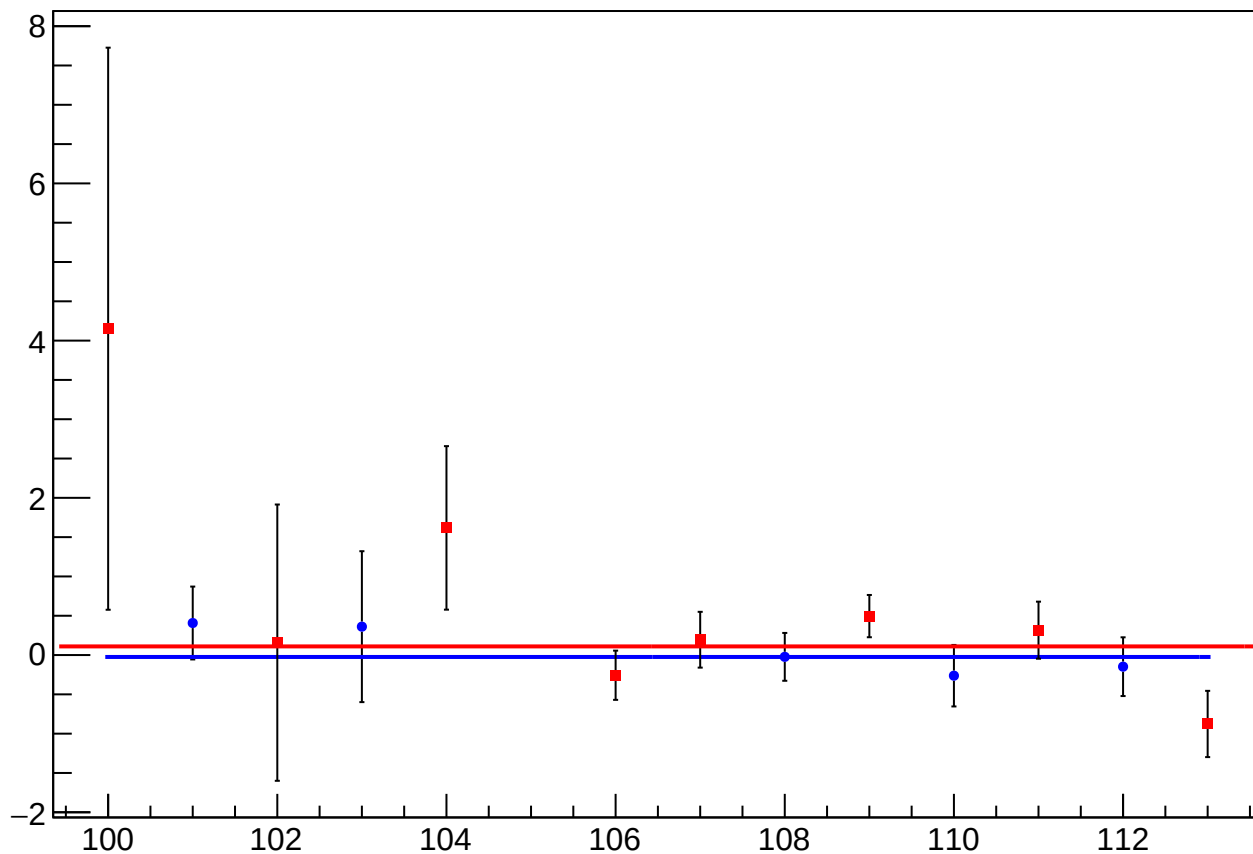
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1290214.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_us\_avg\_at2lr\_avg\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.024 $\pm$ 0.182  $\chi^2$ /NDF: 1.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.110 $\pm$ 0.147  $\chi^2$ /NDF: 12.7/7

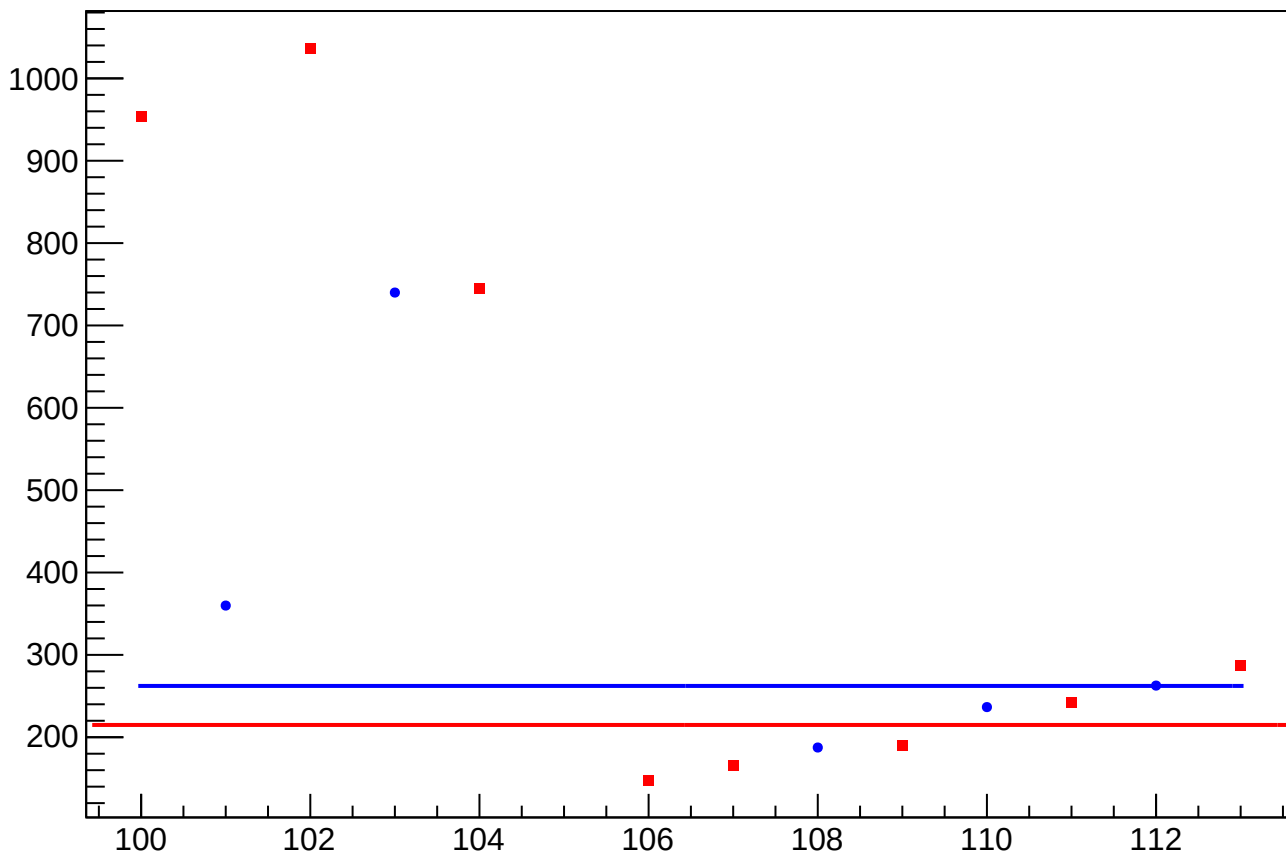
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.057 $\pm$ 0.114  $\chi^2$ /NDF: 14.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 262.299+/-0.129  $\chi^2/\text{NDF}$ : 713339.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 214.909+/-0.104  $\chi^2/\text{NDF}$ : 1259990.9/7

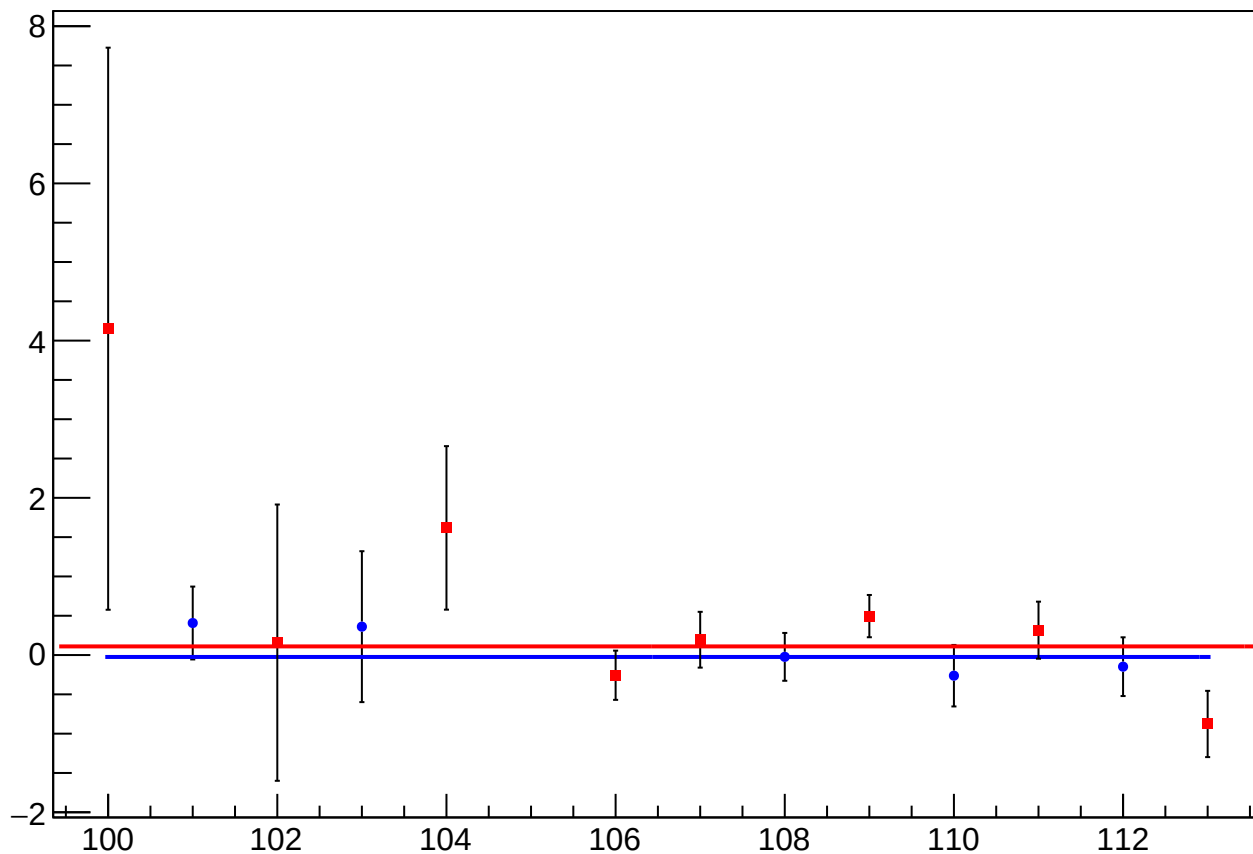
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 233.577+/-0.081  $\chi^2/\text{NDF}$ : 2055652.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.024 $\pm$ 0.182  $\chi^2$ /NDF: 1.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.110 $\pm$ 0.147  $\chi^2$ /NDF: 12.7/7

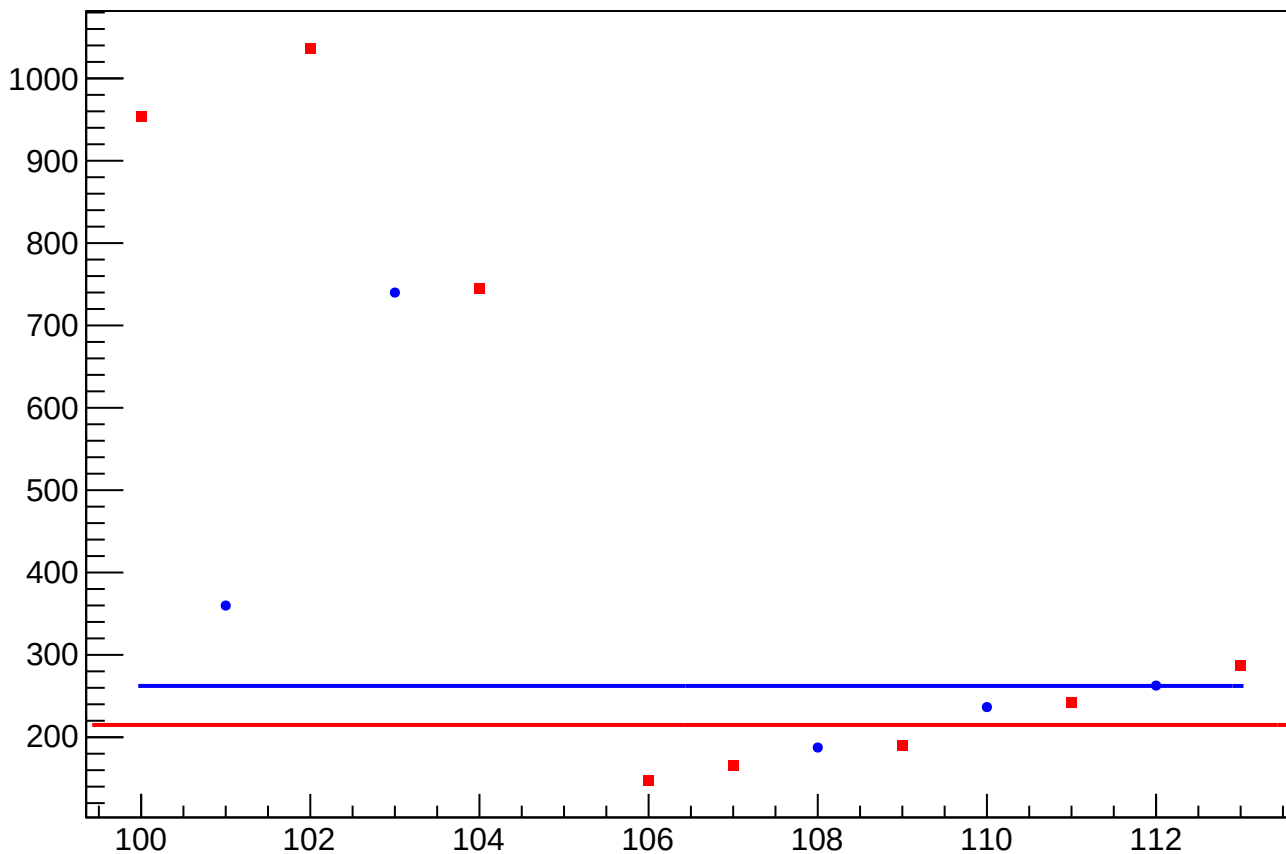
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.057 $\pm$ 0.114  $\chi^2$ /NDF: 14.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 262.299+/-0.129  $\chi^2/\text{NDF}$ : 713339.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 214.909+/-0.104  $\chi^2/\text{NDF}$ : 1259990.9/7

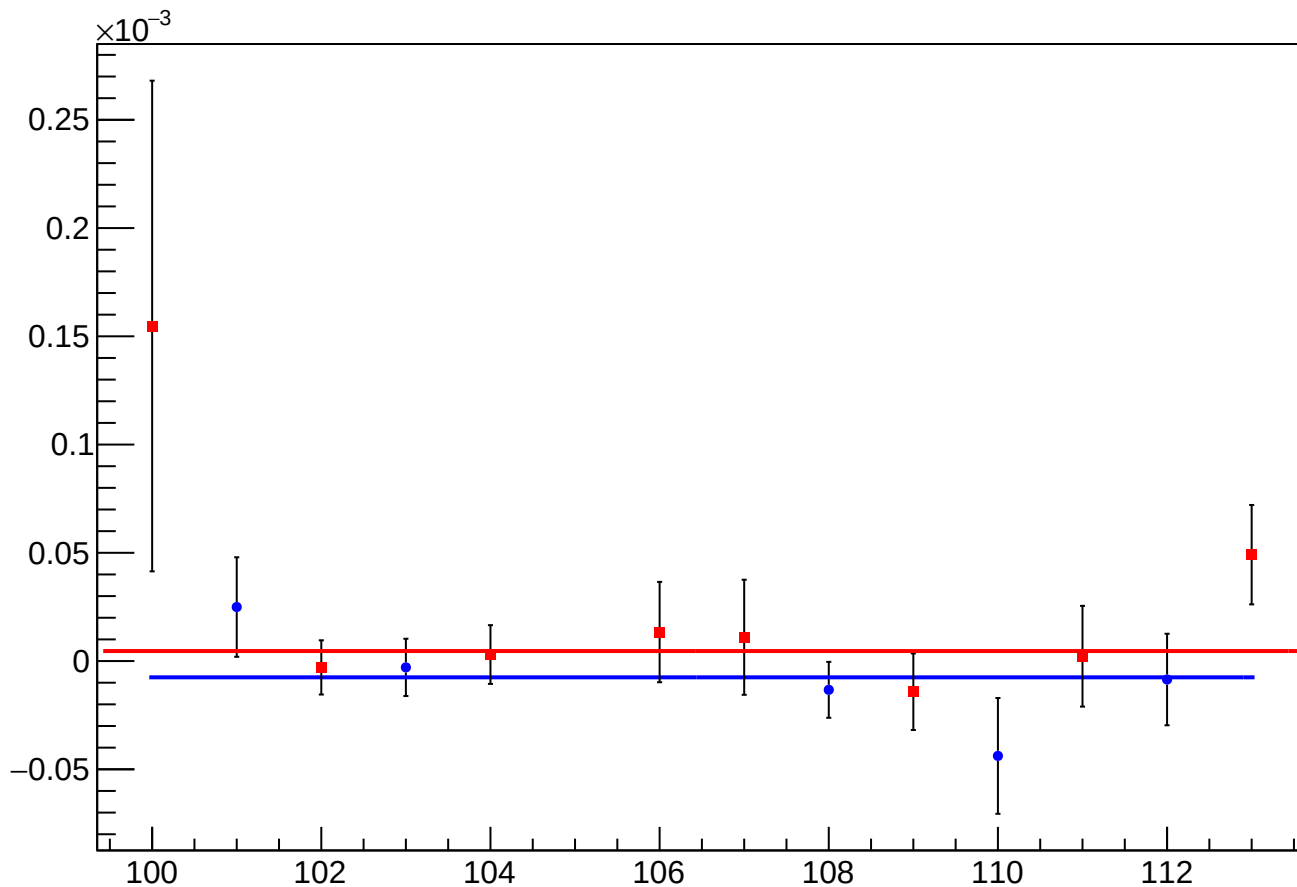
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 233.577+/-0.081  $\chi^2/\text{NDF}$ : 2055652.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.2/7

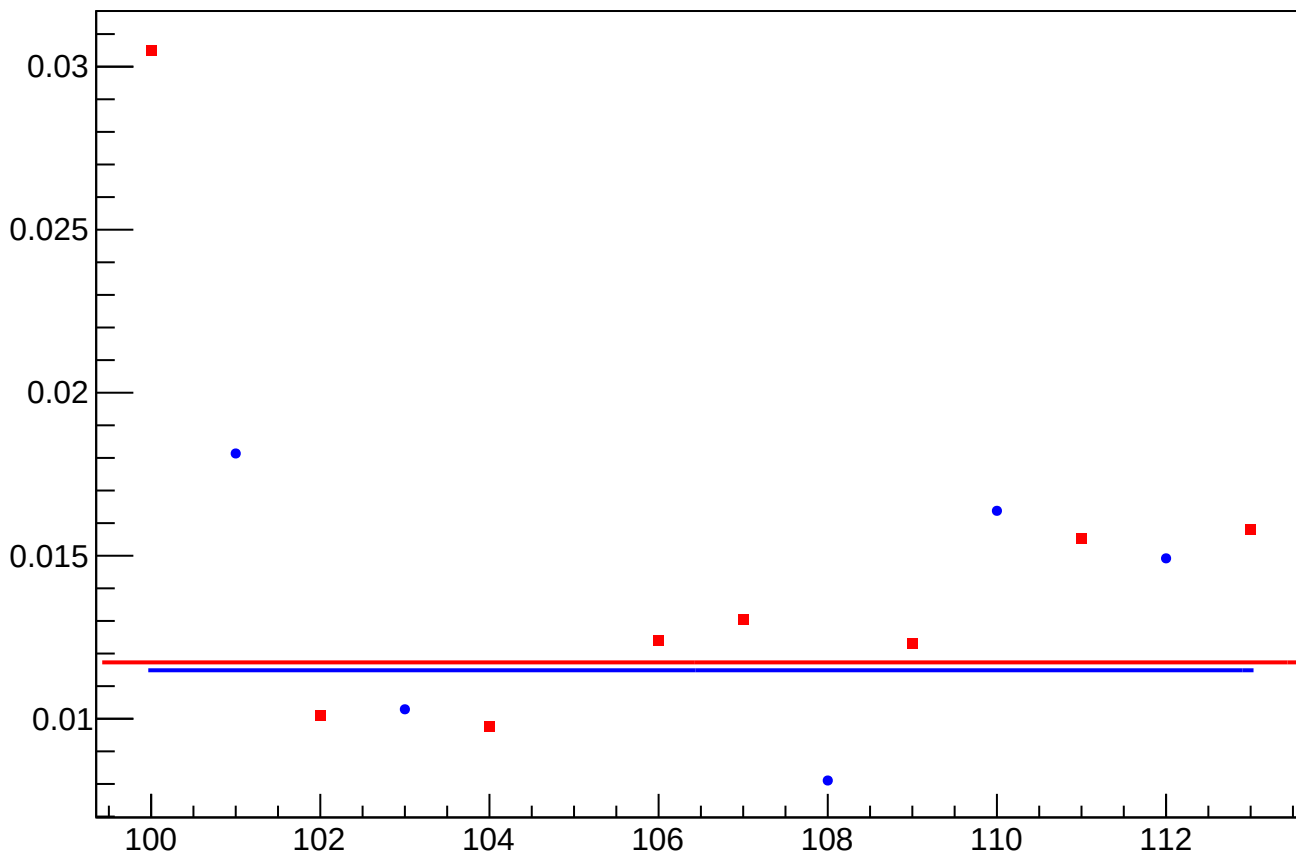
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 440399.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 256785.0/7

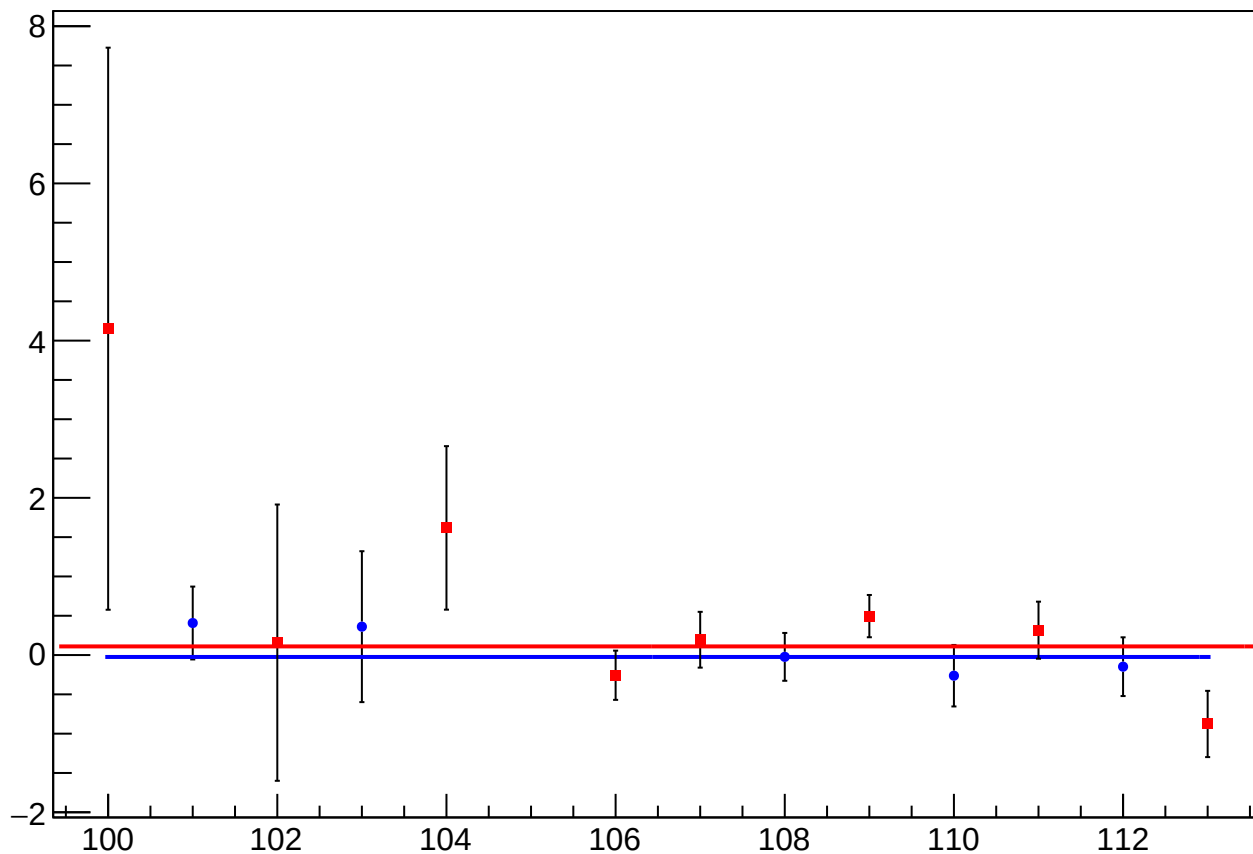
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 698321.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.024 $\pm$ 0.182  $\chi^2$ /NDF: 1.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.110 $\pm$ 0.147  $\chi^2$ /NDF: 12.7/7

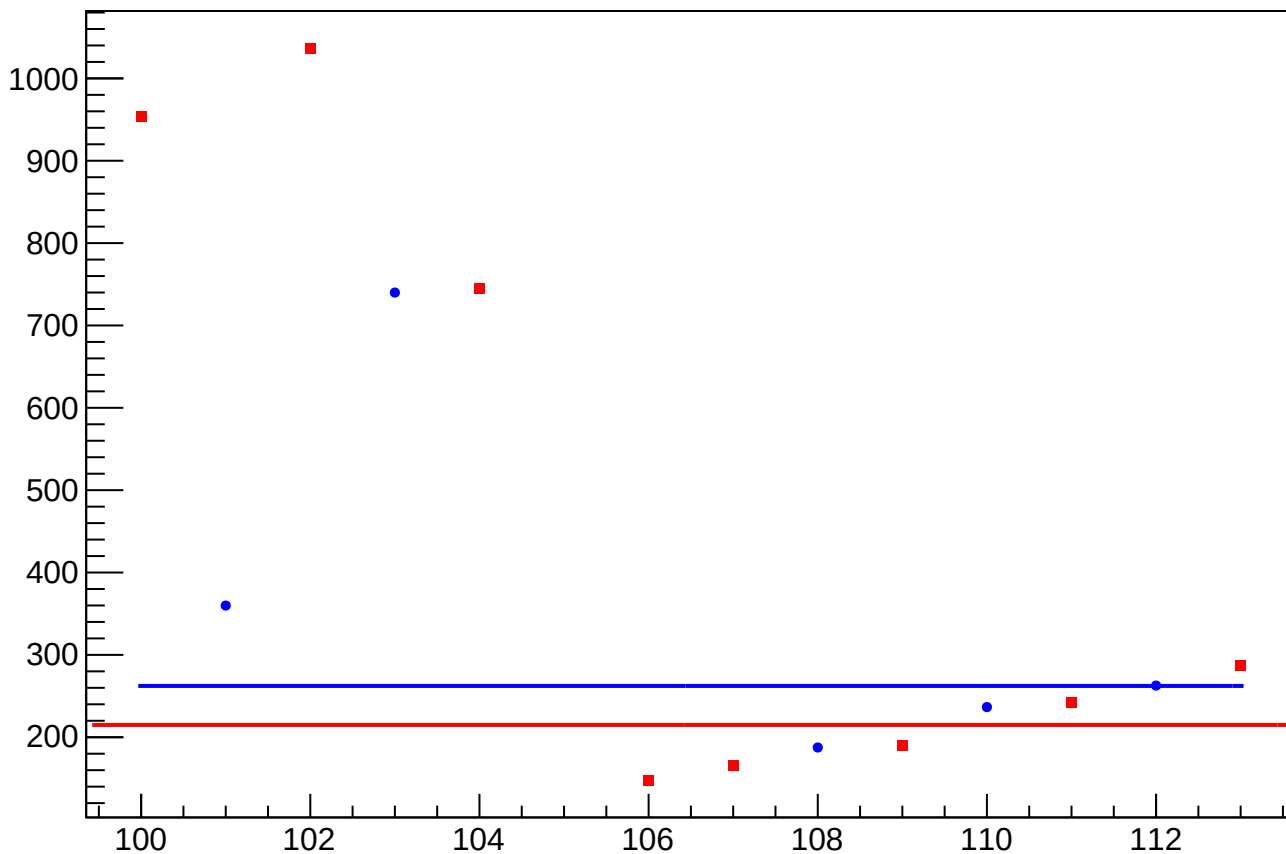
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.057 $\pm$ 0.114  $\chi^2$ /NDF: 14.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 262.303 $\pm$ 0.129  $\chi^2$ /NDF: 713317.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 214.910 $\pm$ 0.104  $\chi^2$ /NDF: 1259995.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

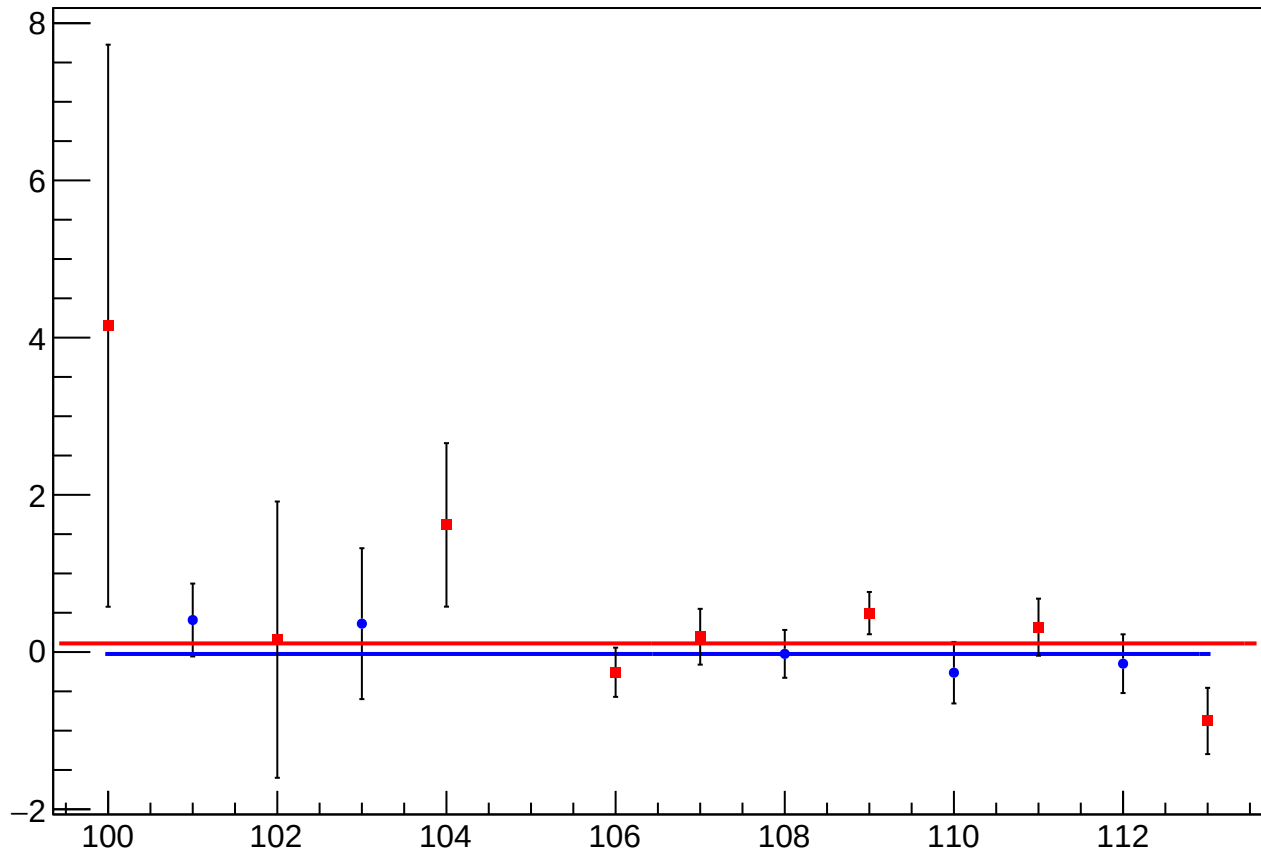
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 233.579 $\pm$ 0.081  $\chi^2$ /NDF: 2055644.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.024 $\pm$ 0.182  $\chi^2$ /NDF: 1.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.110 $\pm$ 0.147  $\chi^2$ /NDF: 12.7/7

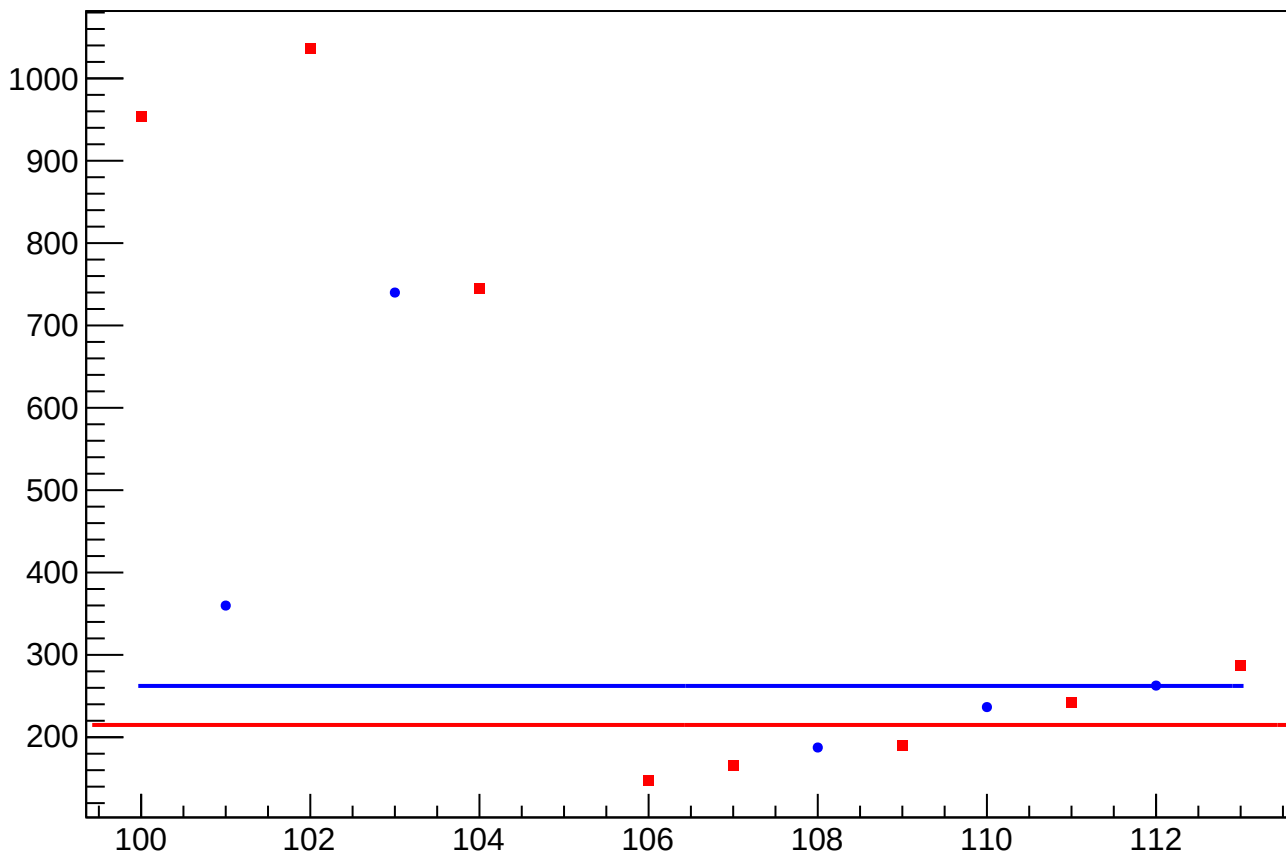
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.057 $\pm$ 0.114  $\chi^2$ /NDF: 14.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 262.303 $\pm$ 0.129  $\chi^2$ /NDF: 713317.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 214.910 $\pm$ 0.104  $\chi^2$ /NDF: 1259995.8/7

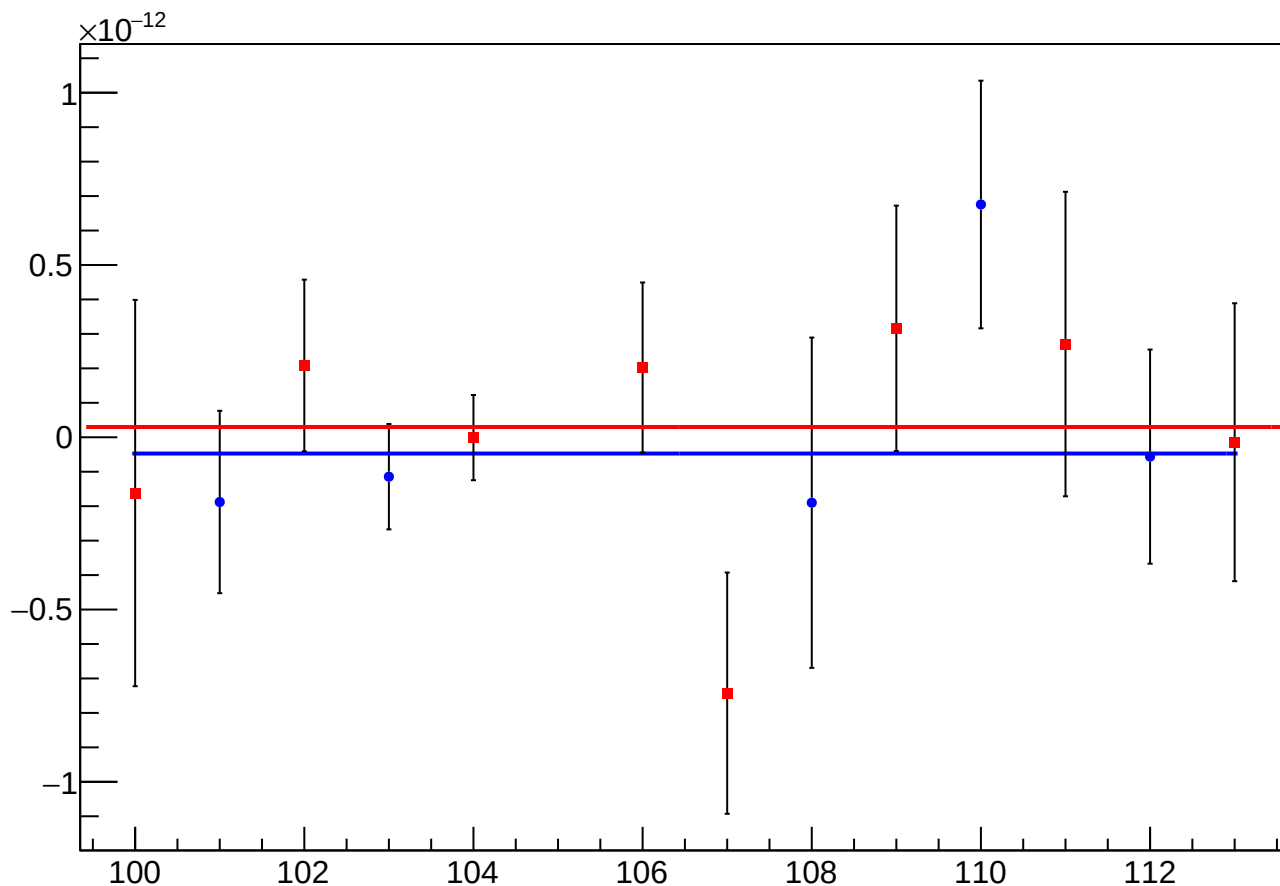
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 233.579 $\pm$ 0.081  $\chi^2$ /NDF: 2055644.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.0/7

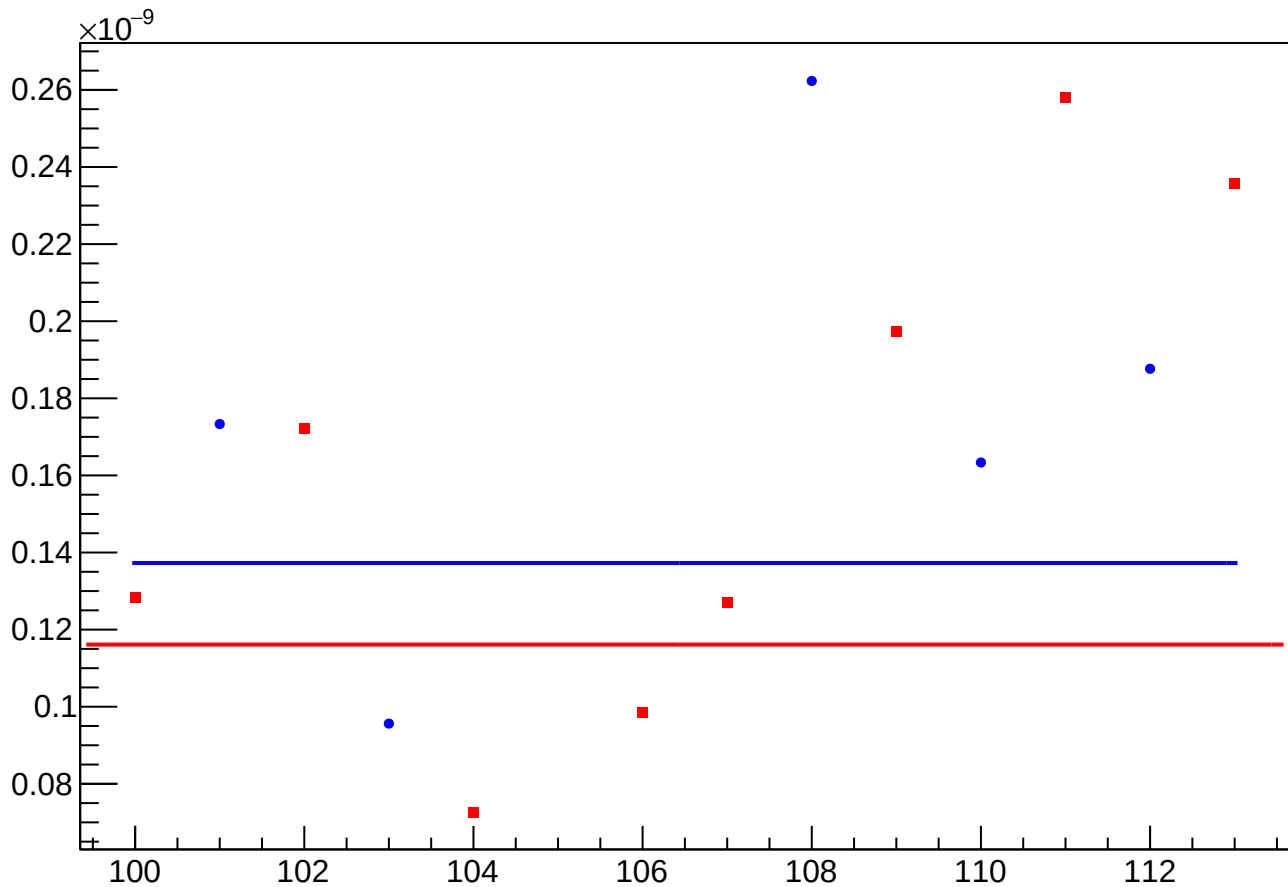
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 384786.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 848346.5/7

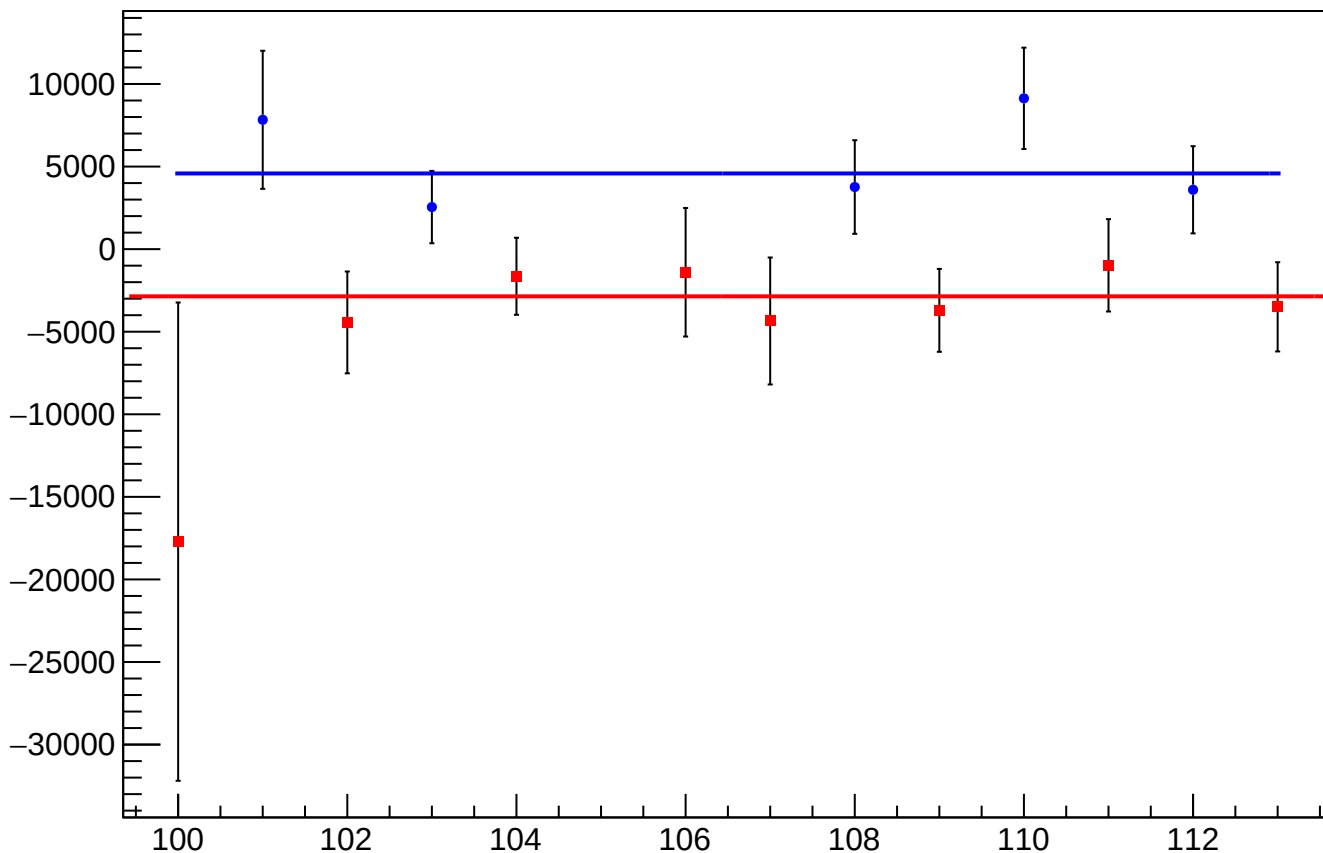
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1277141.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug



Right In: 4583.196+/-1250.154  $\chi^2/\text{NDF}$ : 3.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2857.923+/-1083.966  $\chi^2/\text{NDF}$ : 2.5/7

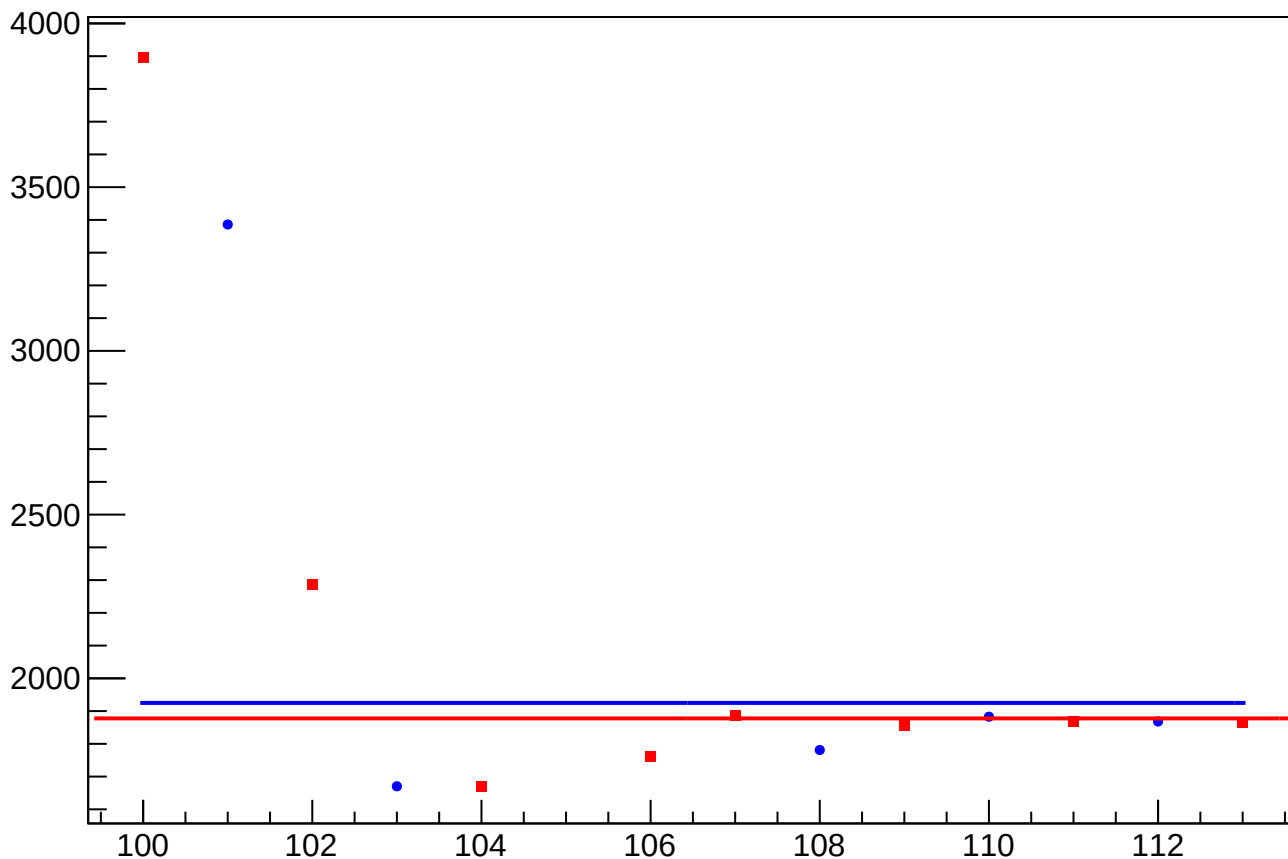
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 335.506+/-818.979  $\chi^2/\text{NDF}$ : 26.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 1924.994 $\pm$ 0.884  $\chi^2$ /NDF: 277798.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1877.666 $\pm$ 0.761  $\chi^2$ /NDF: 92164.9/7

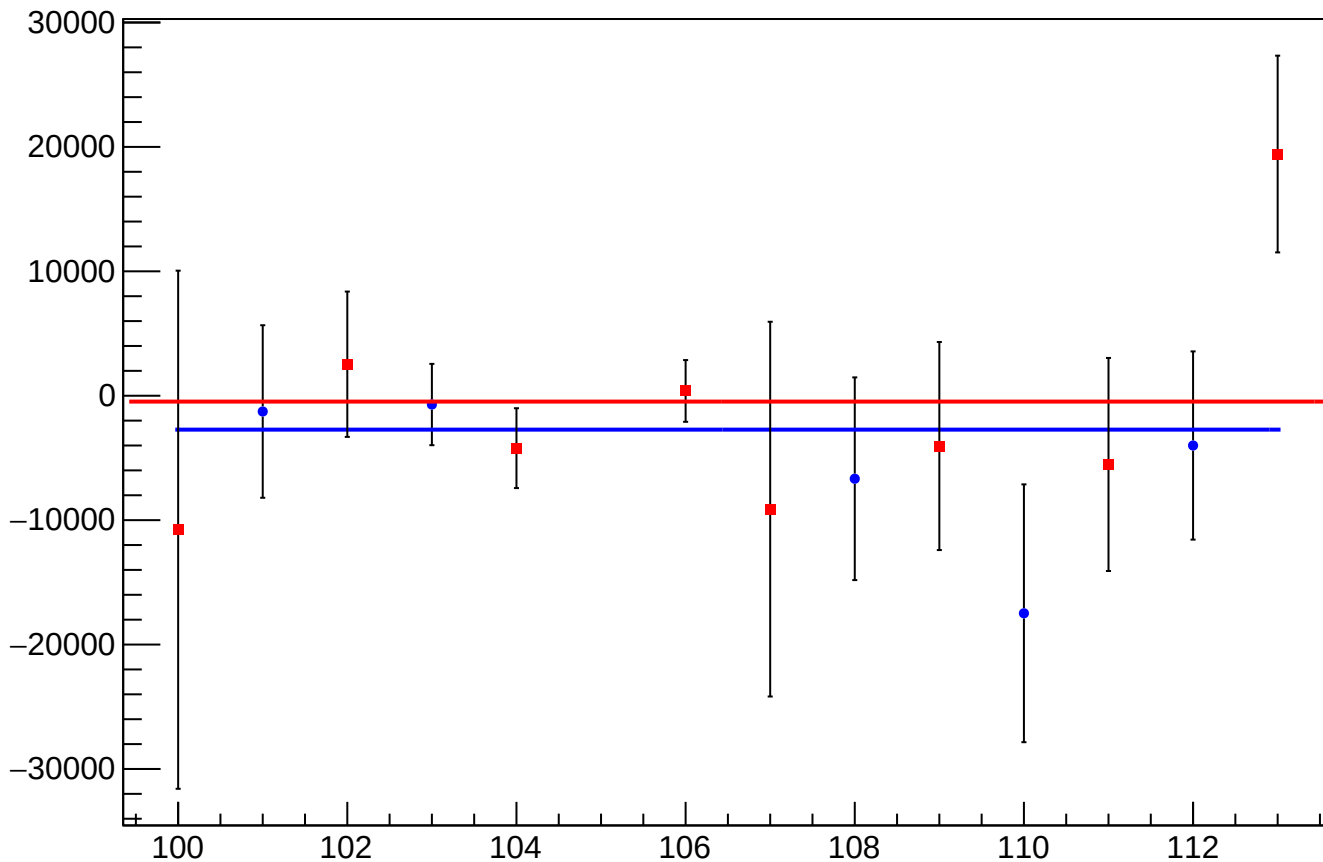
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1897.807 $\pm$ 0.577  $\chi^2$ /NDF: 371609.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_reg\_correction\_mean vs Slug



Right In: -2724.544+/-2529.337  $\chi^2/\text{NDF}$ : 2.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -470.201+/-1716.368  $\chi^2/\text{NDF}$ : 9.2/7

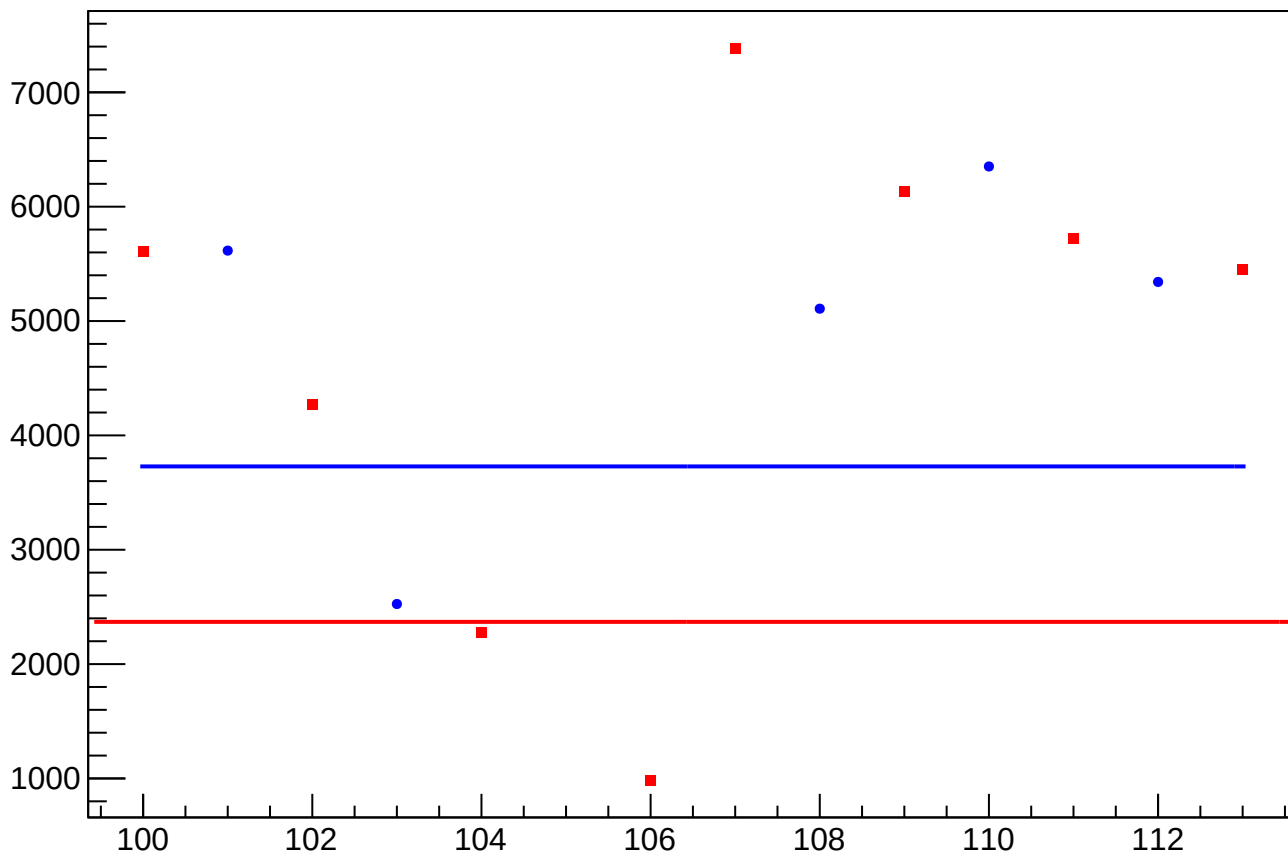
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1180.977+/-1420.245  $\chi^2/\text{NDF}$ : 12.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_reg\_correction\_rms vs Slug



Right In: 3728.614+/-1.789  $\chi^2/\text{NDF}$ : 695748.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2369.305+/-1.214  $\chi^2/\text{NDF}$ : 2124212.9/7

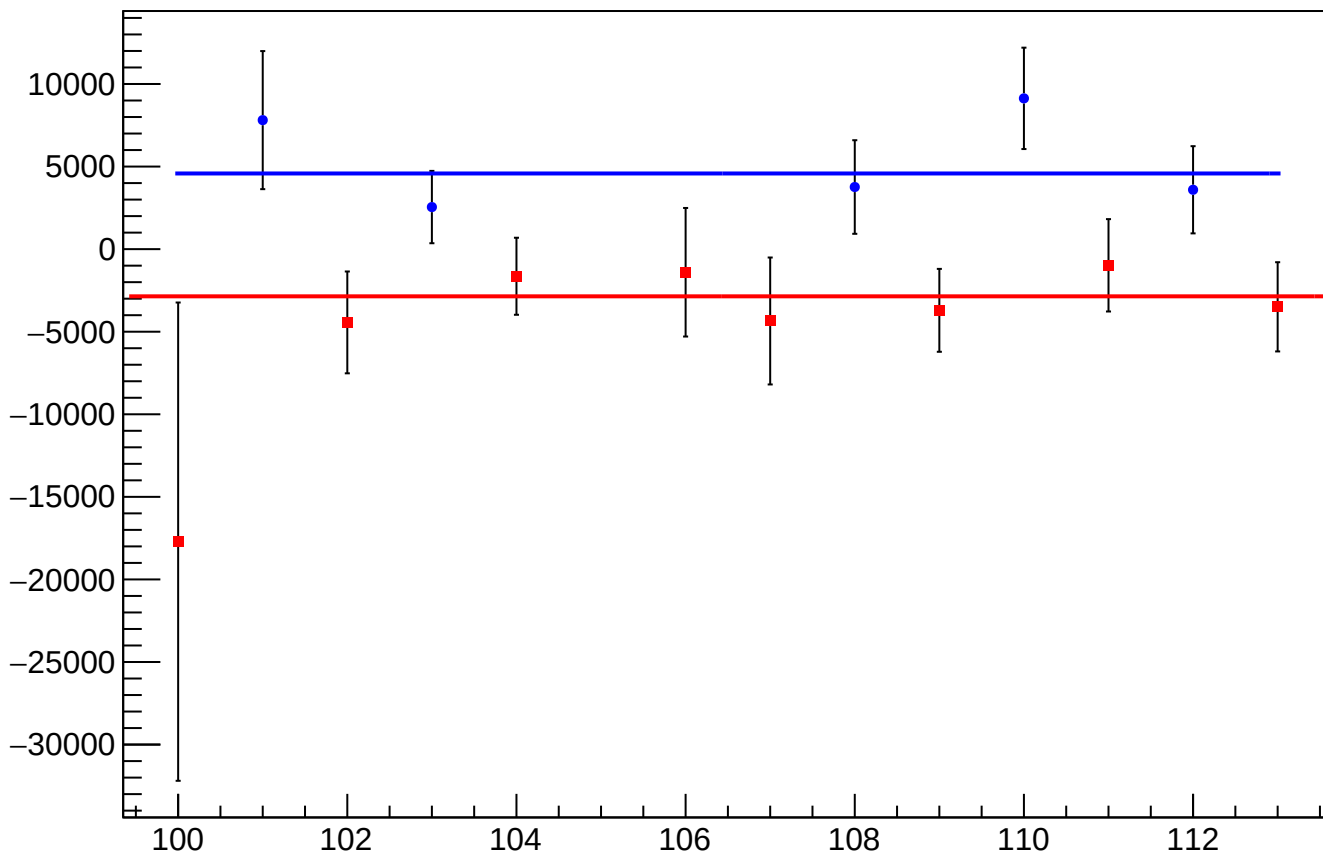
All: 2797.884+/-1.004  $\chi^2/\text{NDF}$ : 3215472.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug



Right In: 4581.719+/-1250.155  $\chi^2/\text{NDF}$ : 3.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2857.553+/-1083.966  $\chi^2/\text{NDF}$ : 2.5/7

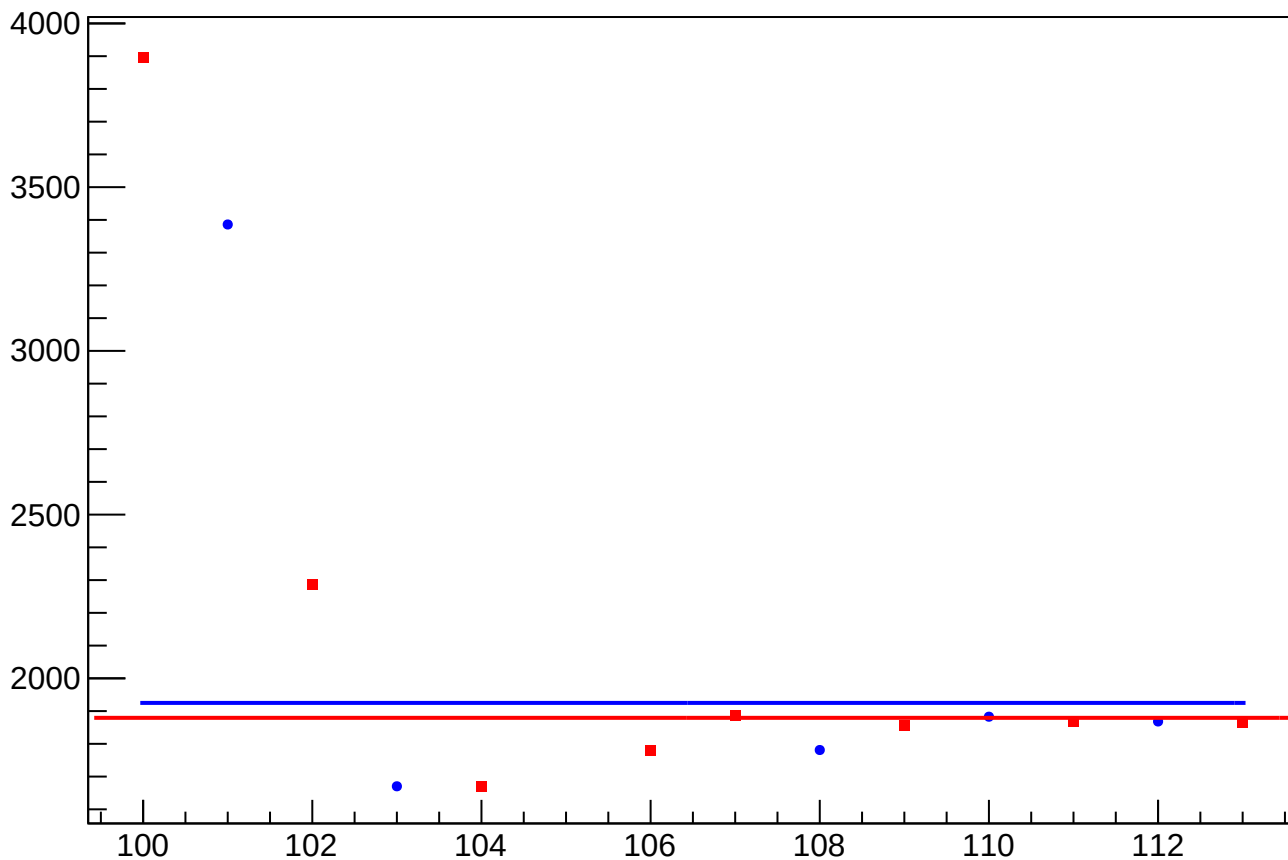
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 335.081+/-818.980  $\chi^2/\text{NDF}$ : 26.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

cor\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 1924.994 $\pm$ 0.884  $\chi^2$ /NDF: 277800.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1879.405 $\pm$ 0.761  $\chi^2$ /NDF: 91548.0/7

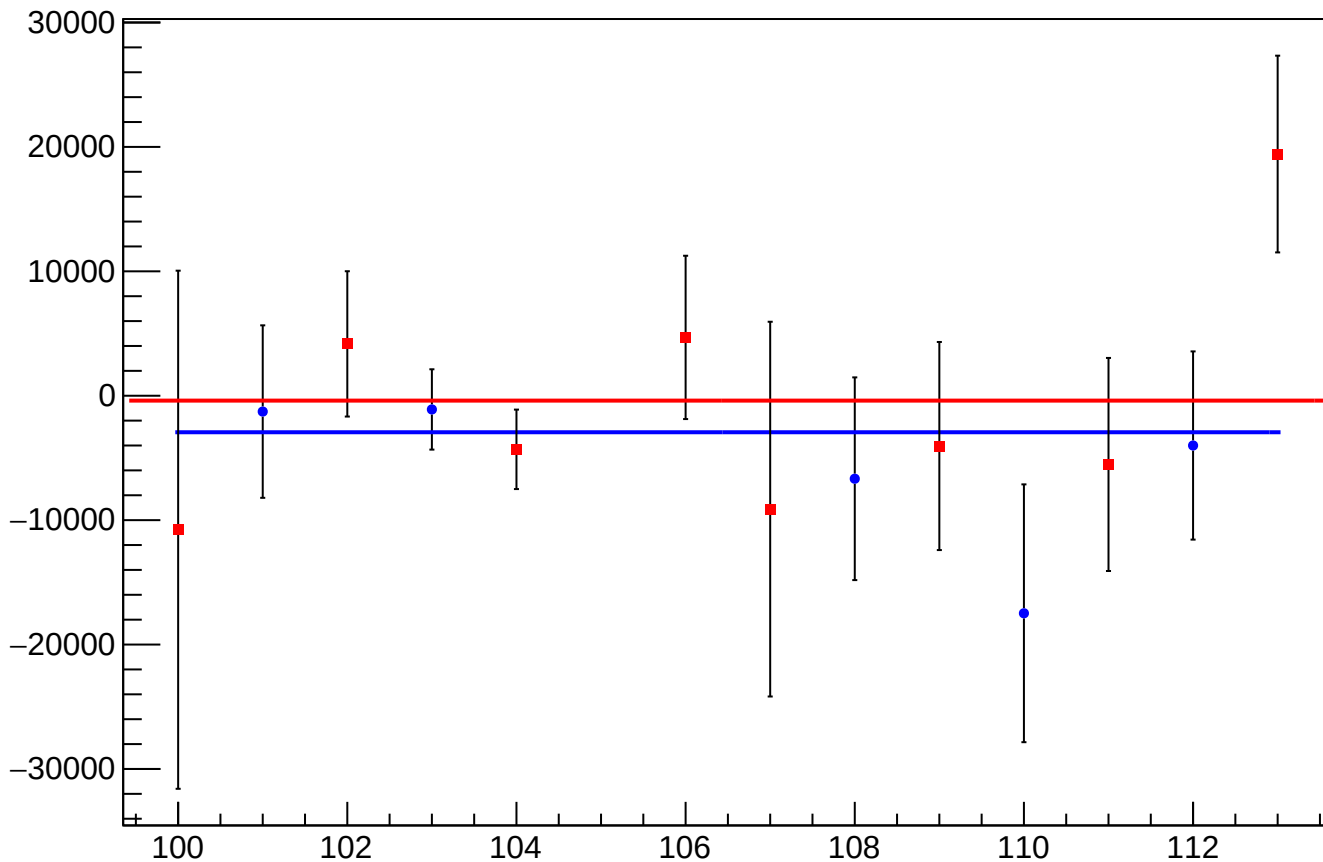
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1898.823 $\pm$ 0.577  $\chi^2$ /NDF: 370874.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_cor\_correction\_mean vs Slug



Right In:  $-2934.985 \pm 2510.861$   $\chi^2/\text{NDF}$ : 2.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-391.668 \pm 2229.216$   $\chi^2/\text{NDF}$ : 10.1/7

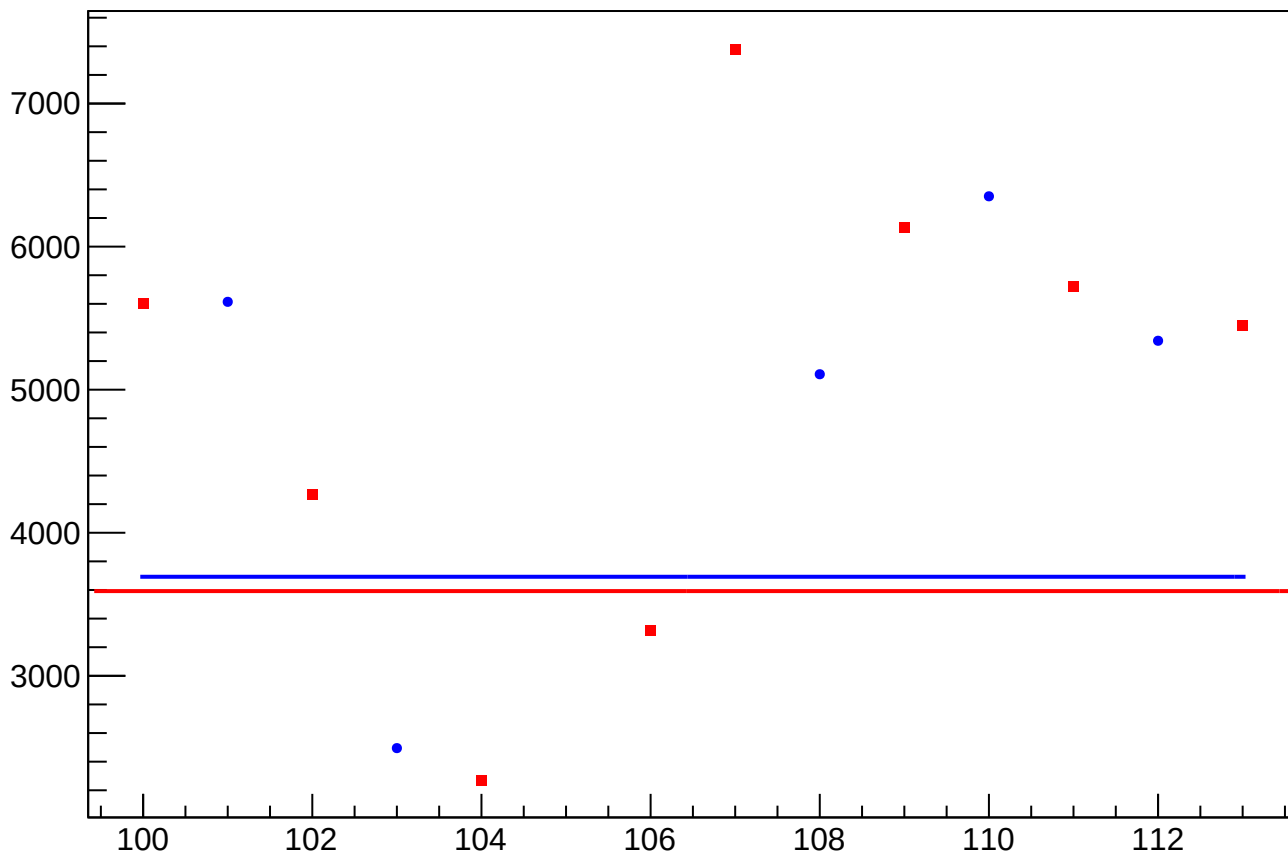
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1512.740 \pm 1667.014$   $\chi^2/\text{NDF}$ : 13.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_cor\_correction\_rms vs Slug



Right In: 3692.434+/-1.775  $\chi^2/\text{NDF}$ : 716232.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3592.279+/-1.576  $\chi^2/\text{NDF}$ : 937461.8/7

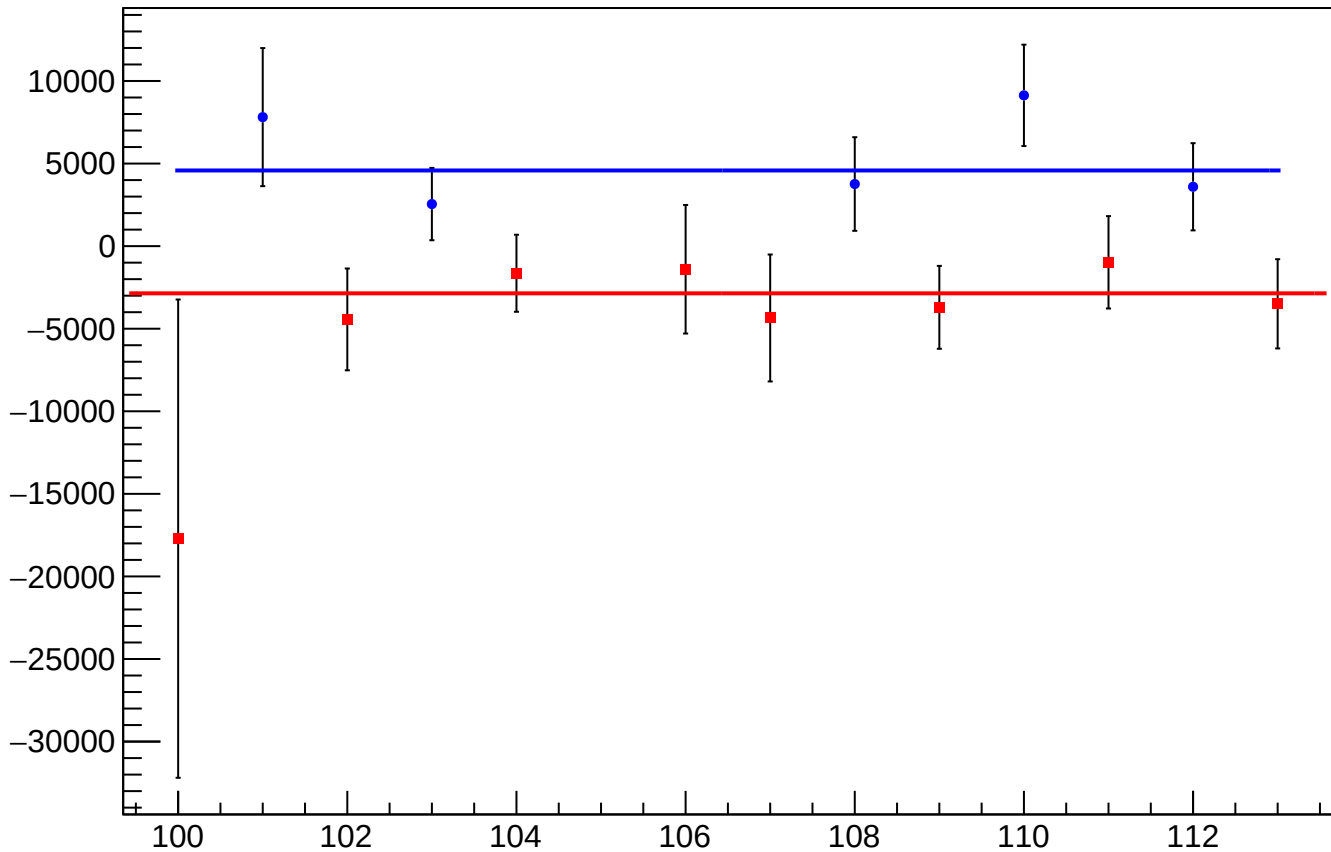
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3636.426+/-1.179  $\chi^2/\text{NDF}$ : 1655474.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug



Right In: 4581.719+/-1250.155  $\chi^2/\text{NDF}$ : 3.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2857.553+/-1083.966  $\chi^2/\text{NDF}$ : 2.5/7

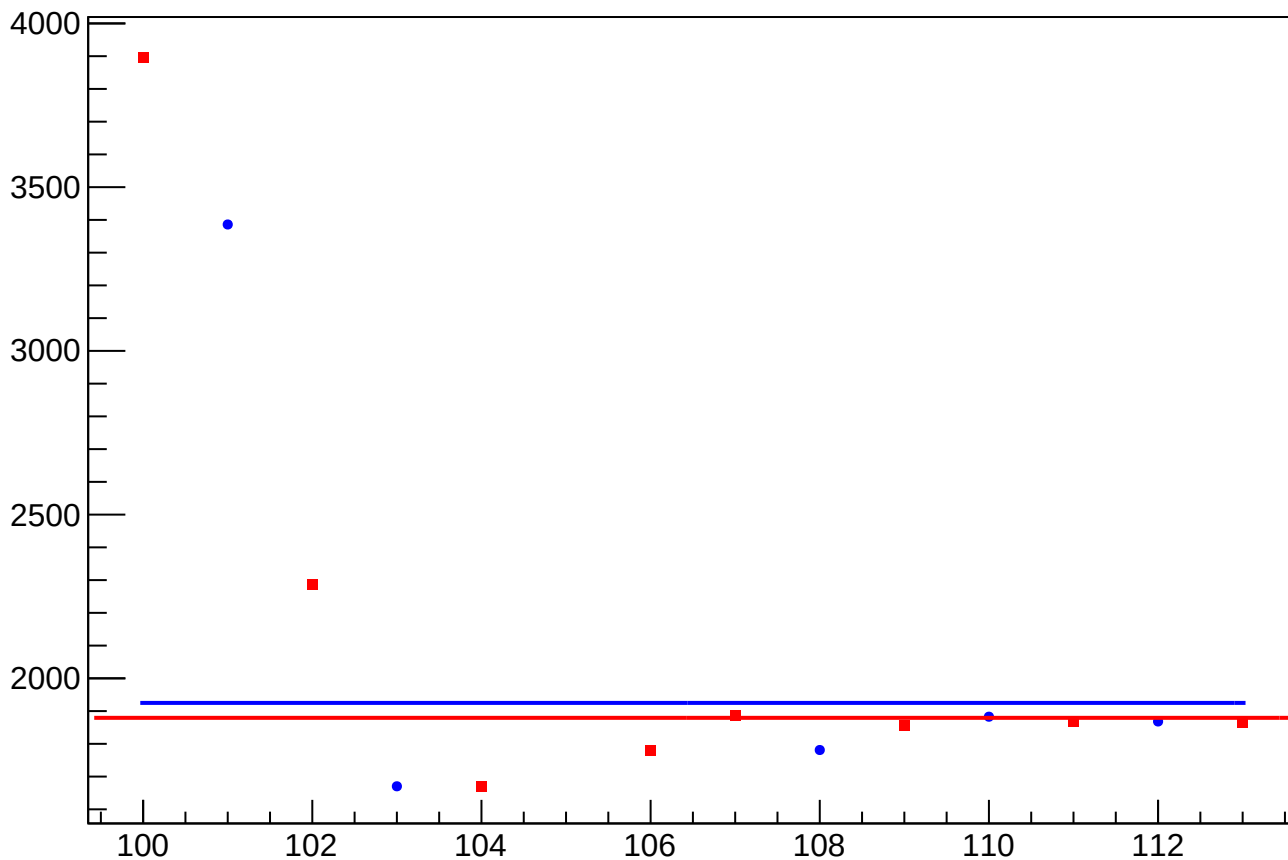
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 335.081+/-818.980  $\chi^2/\text{NDF}$ : 26.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 1924.994 $\pm$ 0.884  $\chi^2$ /NDF: 277800.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1879.405 $\pm$ 0.761  $\chi^2$ /NDF: 91548.0/7

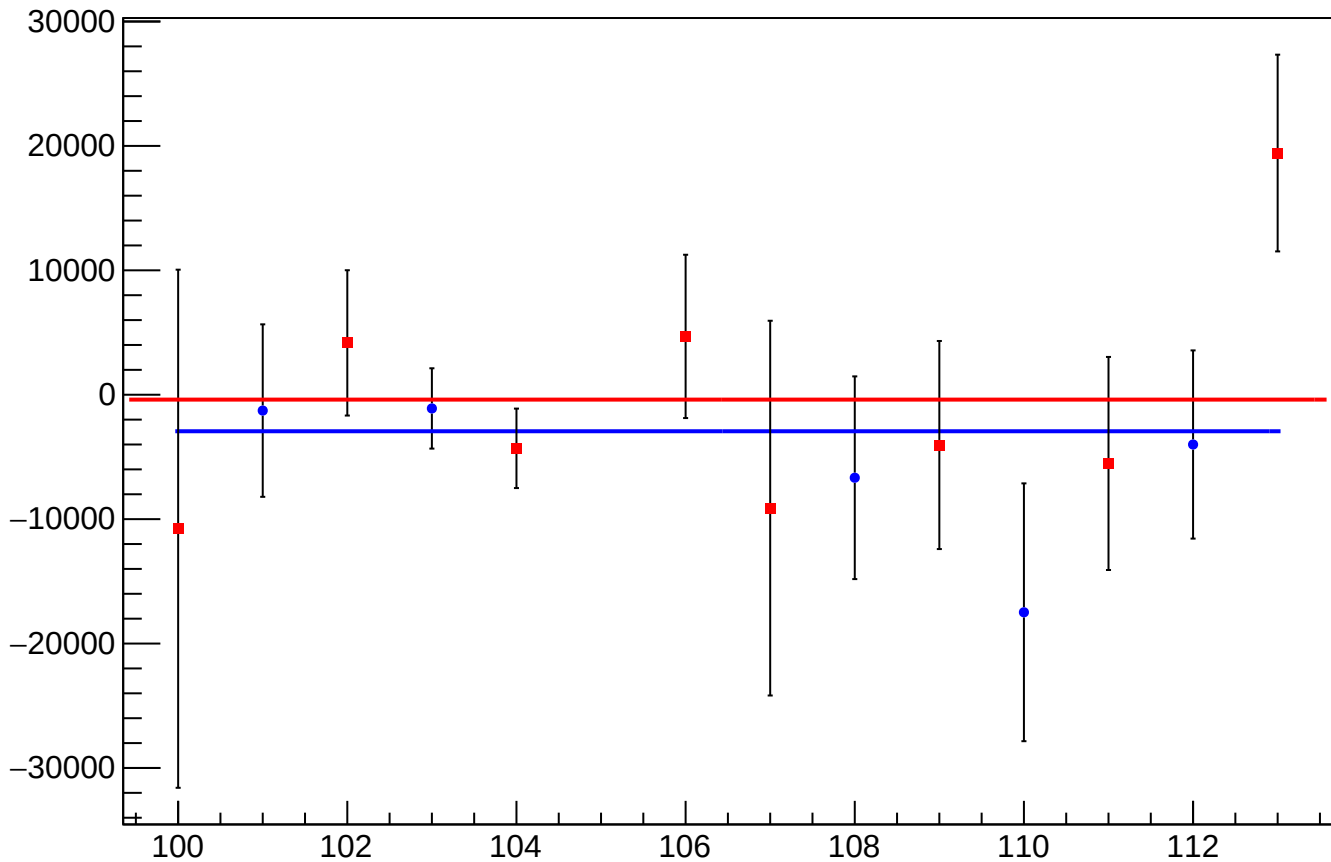
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1898.823 $\pm$ 0.577  $\chi^2$ /NDF: 370874.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -2934.985+/-2510.861  $\chi^2/\text{NDF}$ : 2.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -391.668+/-2229.216  $\chi^2/\text{NDF}$ : 10.1/7

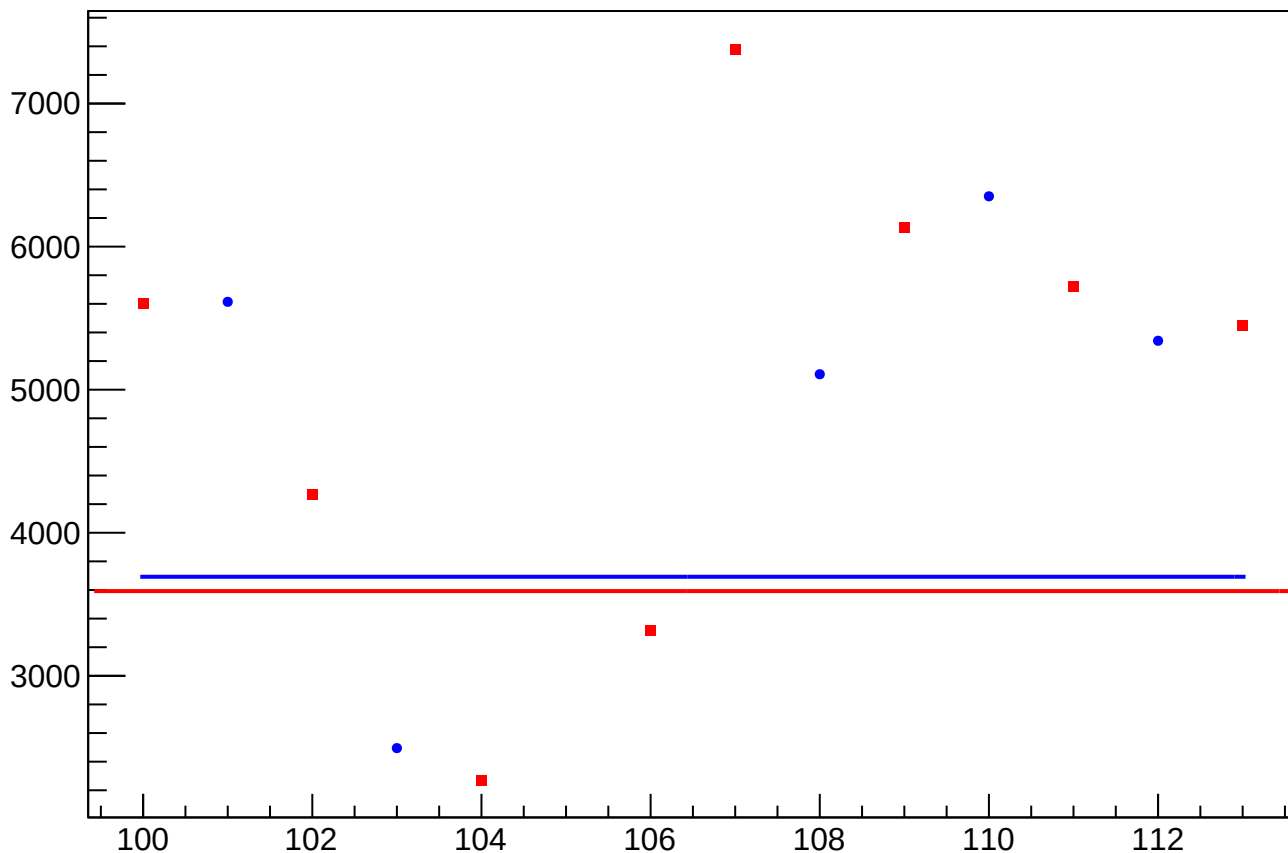
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1512.740+/-1667.014  $\chi^2/\text{NDF}$ : 13.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 3692.434+/-1.775  $\chi^2/\text{NDF}$ : 716232.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3592.279+/-1.576  $\chi^2/\text{NDF}$ : 937461.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

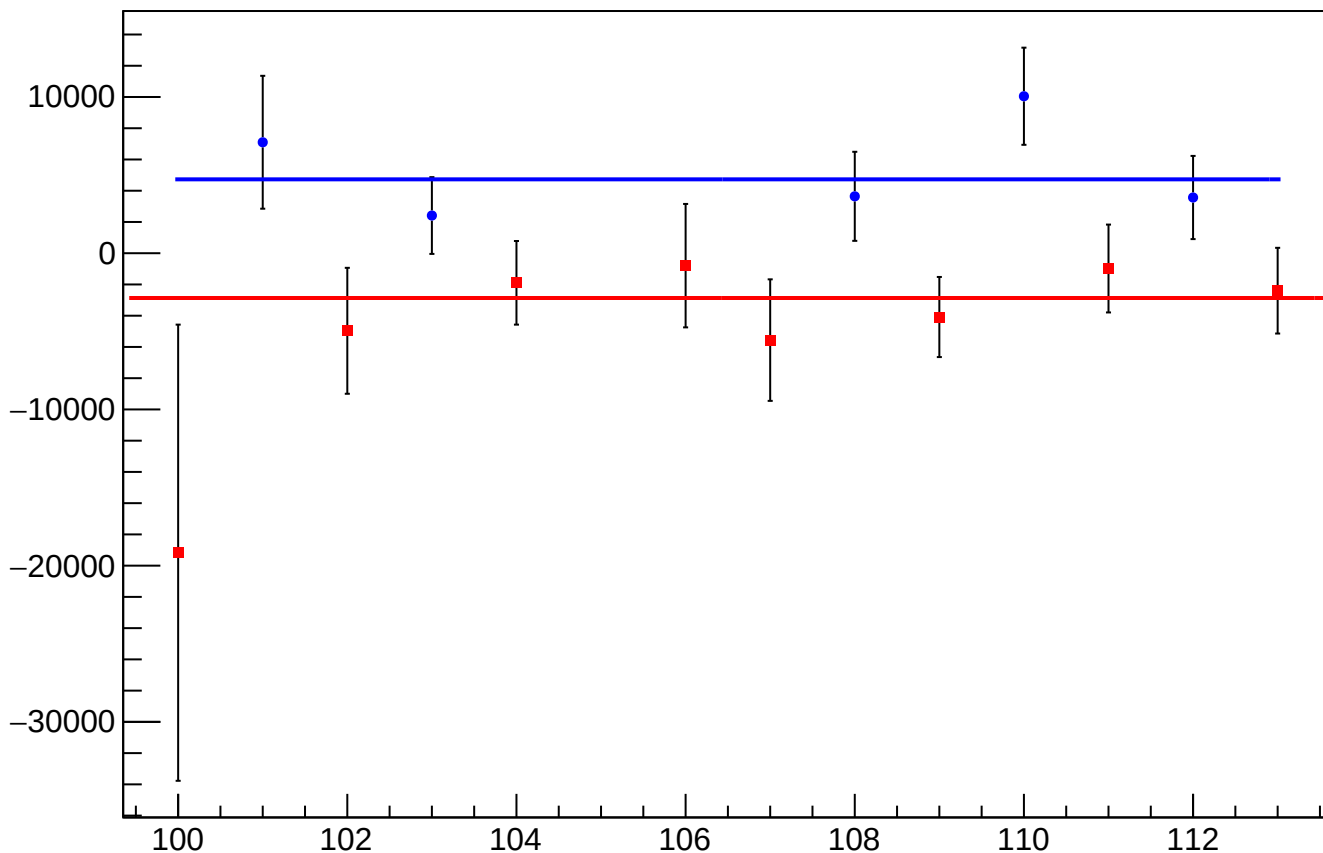
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3636.426+/-1.179  $\chi^2/\text{NDF}$ : 1655474.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug



Right In: 4728.552+/-1303.442  $\chi^2/\text{NDF}$ : 4.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2866.563+/-1156.727  $\chi^2/\text{NDF}$ : 3.1/7

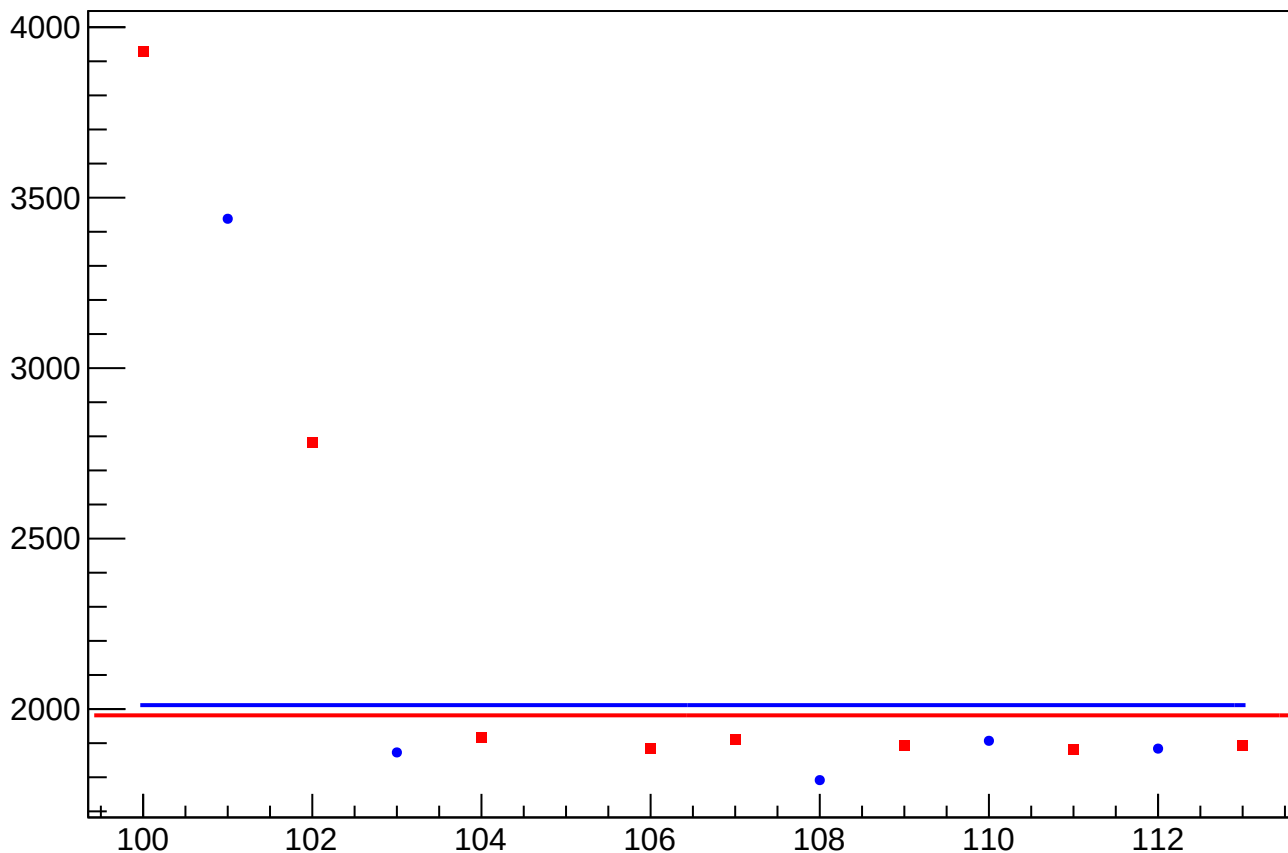
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 479.657+/-865.170  $\chi^2/\text{NDF}$ : 26.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 2011.539+/-0.922  $\chi^2/\text{NDF}$ : 250133.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1981.619+/-0.816  $\chi^2/\text{NDF}$ : 124413.2/7

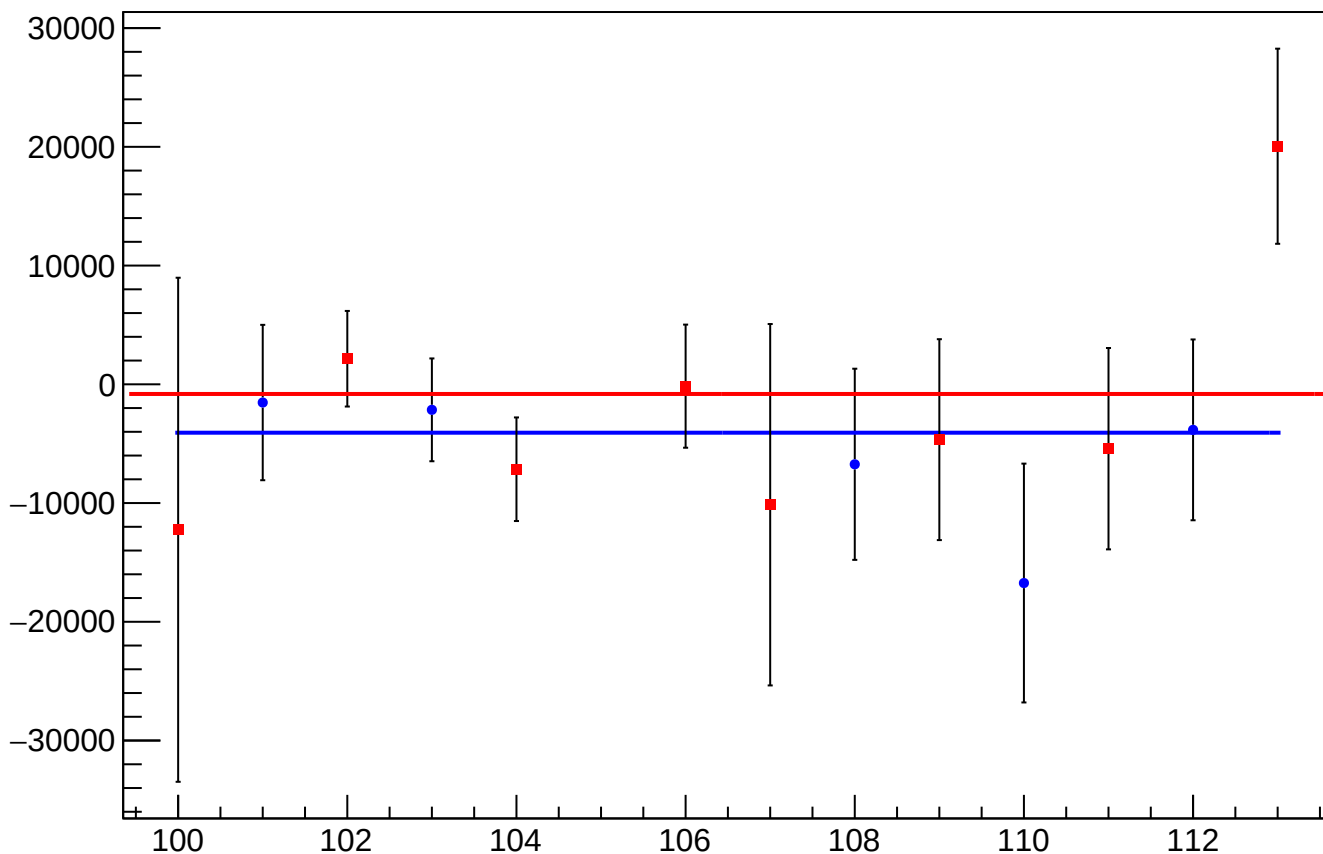
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1994.760+/-0.611  $\chi^2/\text{NDF}$ : 375138.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_dit\_correction\_mean vs Slug



Right In: -4075.689+/-2895.263  $\chi^2$ /NDF: 2.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -813.634+/-2232.154  $\chi^2$ /NDF: 10.3/7

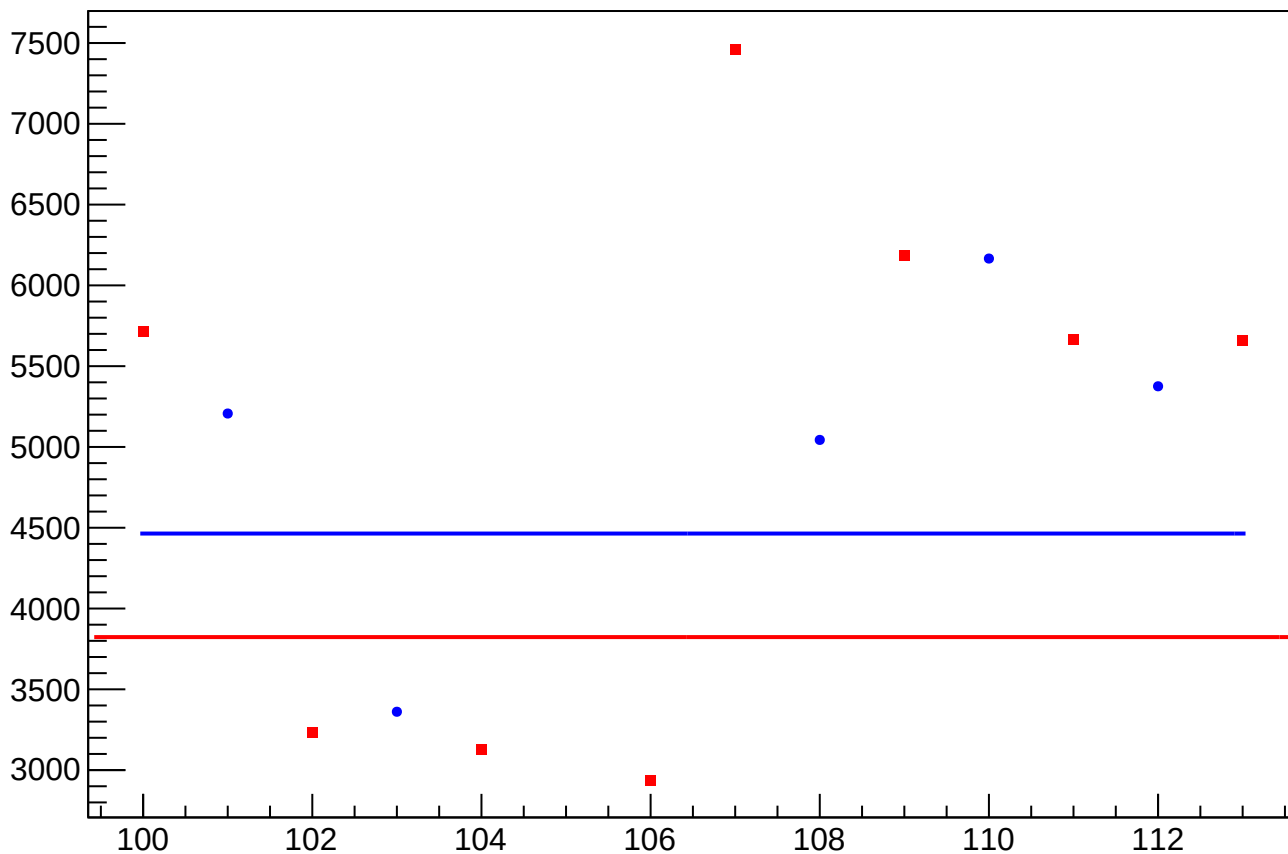
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -2029.733+/-1767.774  $\chi^2$ /NDF: 13.1/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_dit\_correction\_rms vs Slug



Right In: 4464.071+/-2.047  $\chi^2/\text{NDF}$ : 251907.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

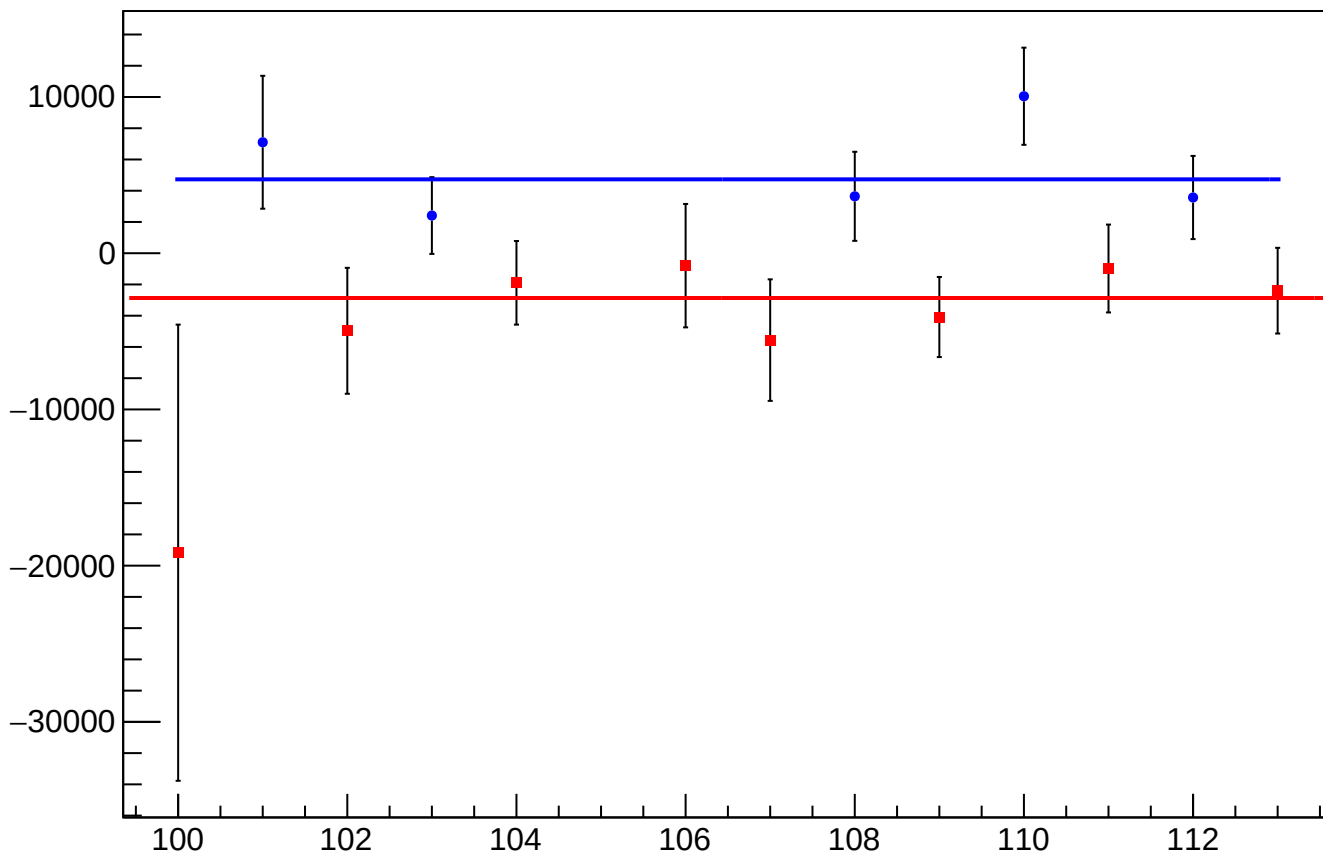
Right Out: 3823.241+/-1.578  $\chi^2/\text{NDF}$ : 632149.1/7

All: 4062.143+/-1.250  $\chi^2/\text{NDF}$ : 945509.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug



Right In: 4728.557+/-1303.441  $\chi^2/\text{NDF}$ : 4.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2866.561+/-1156.726  $\chi^2/\text{NDF}$ : 3.1/7

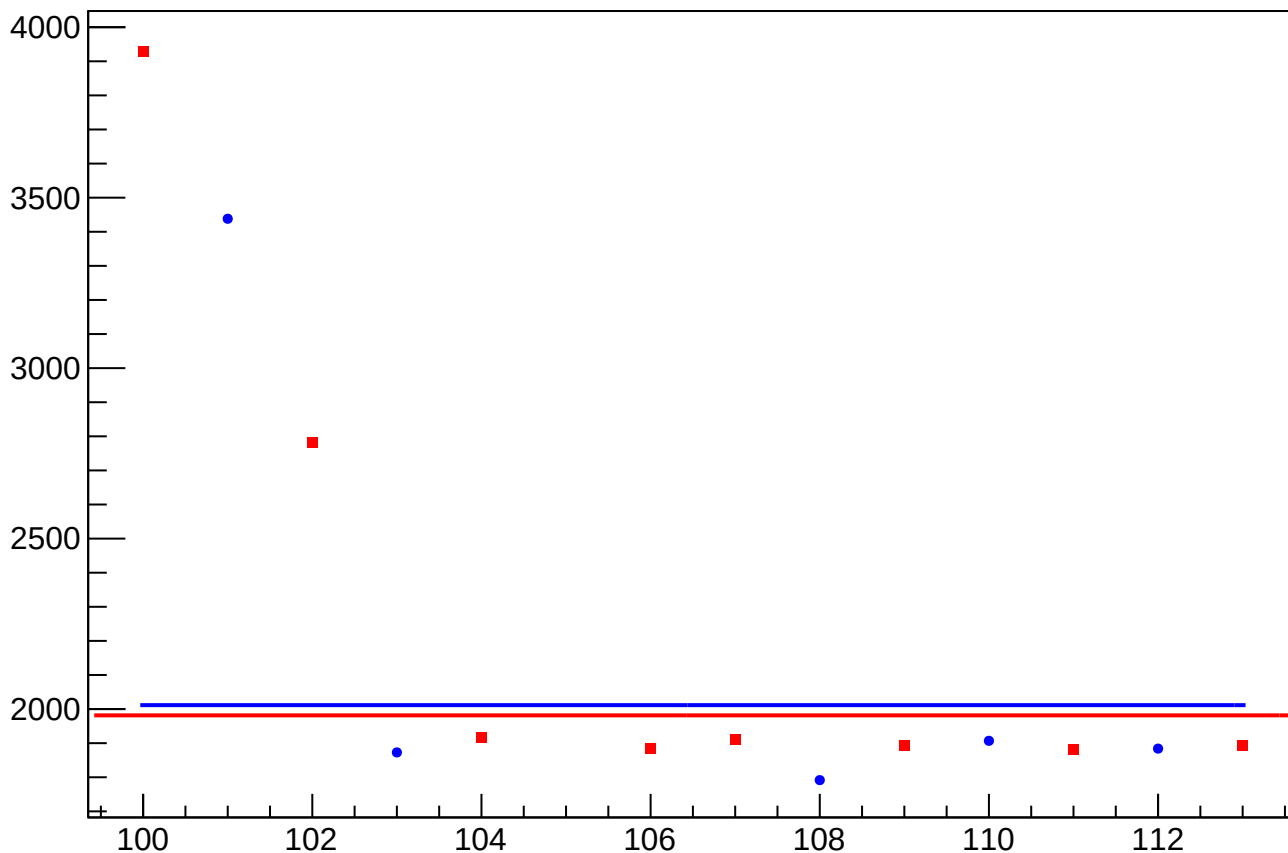
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 479.659+/-865.170  $\chi^2/\text{NDF}$ : 26.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 2011.538 $\pm$ 0.922  $\chi^2$ /NDF: 250134.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1981.618 $\pm$ 0.816  $\chi^2$ /NDF: 124412.7/7

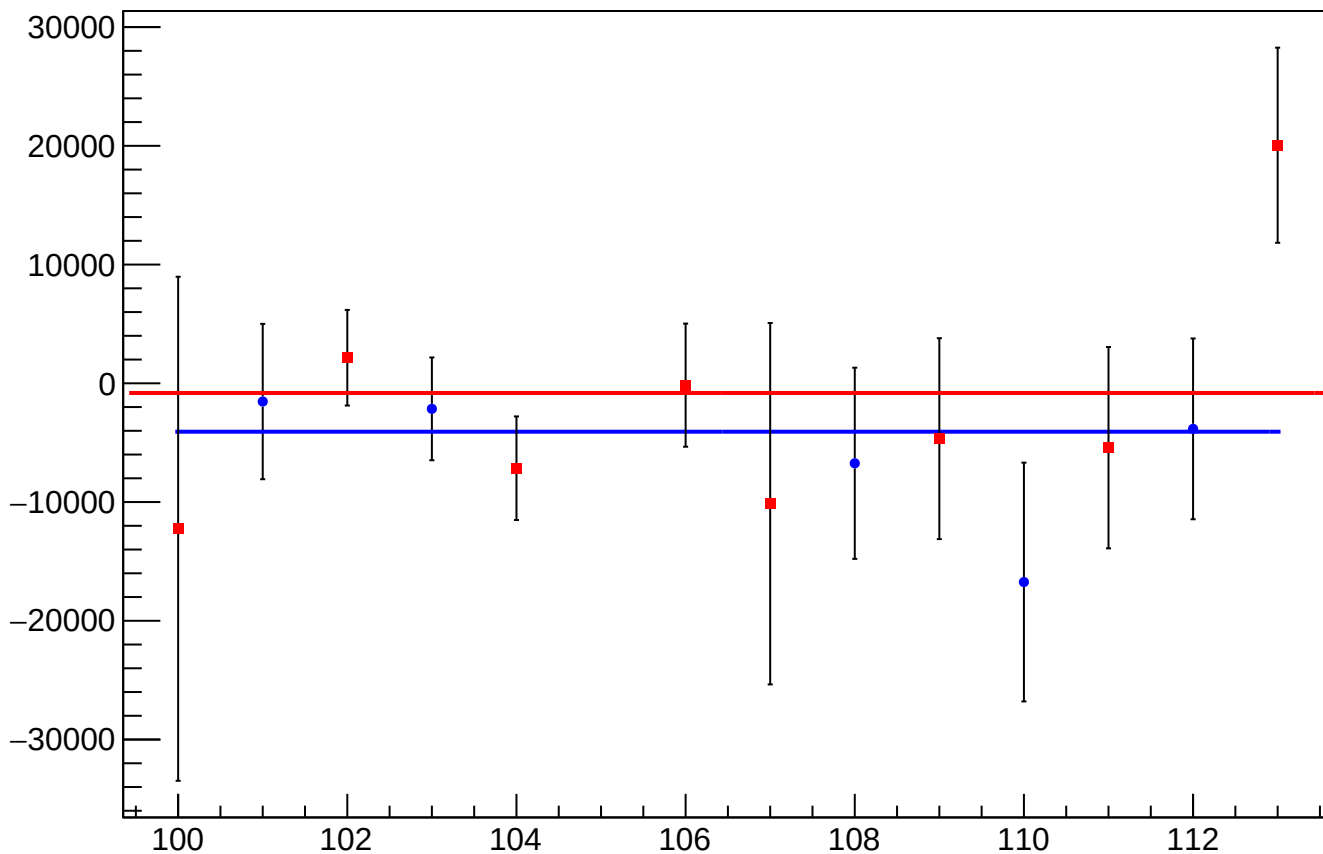
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1994.759 $\pm$ 0.611  $\chi^2$ /NDF: 375137.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -4075.687+/-2895.257  $\chi^2/\text{NDF}$ : 2.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -813.633+/-2232.149  $\chi^2/\text{NDF}$ : 10.3/7

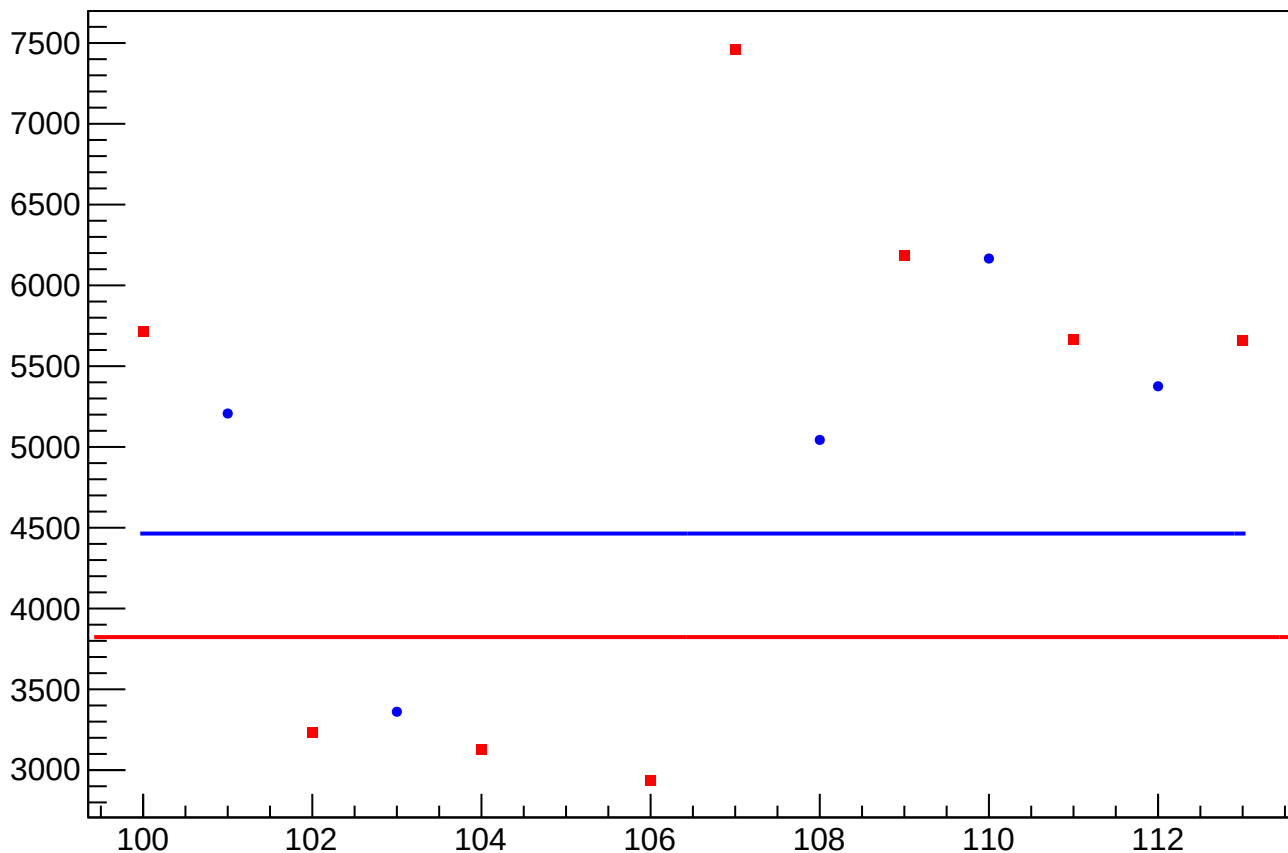
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2029.731+/-1767.770  $\chi^2/\text{NDF}$ : 13.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 4464.062 $\pm$ 2.047  $\chi^2$ /NDF: 251907.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3823.232 $\pm$ 1.578  $\chi^2$ /NDF: 632148.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

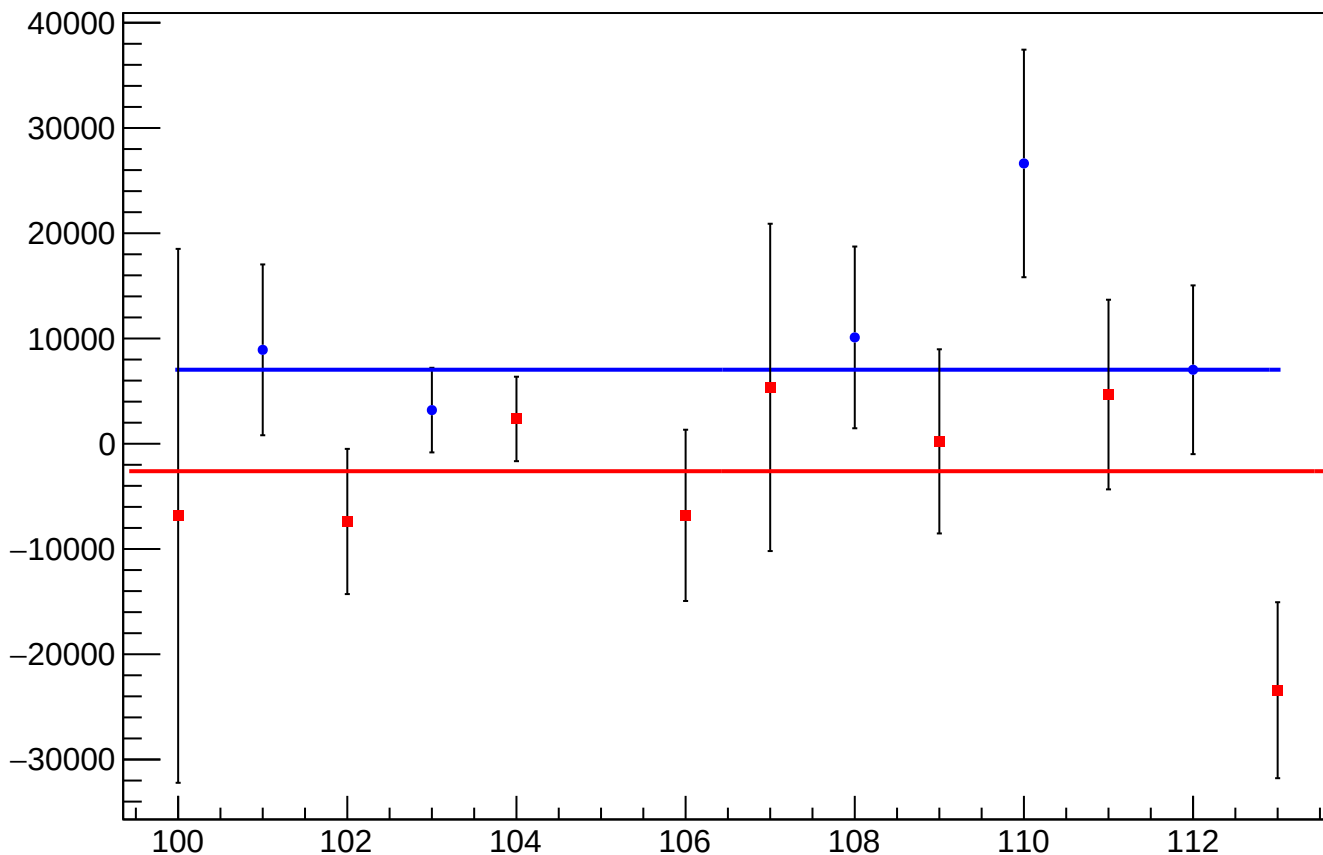
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4062.134 $\pm$ 1.250  $\chi^2$ /NDF: 945509.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug



Right In: 7033.355+/-2953.586  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2608.227+/-2638.621  $\chi^2/\text{NDF}$ : 9.5/7

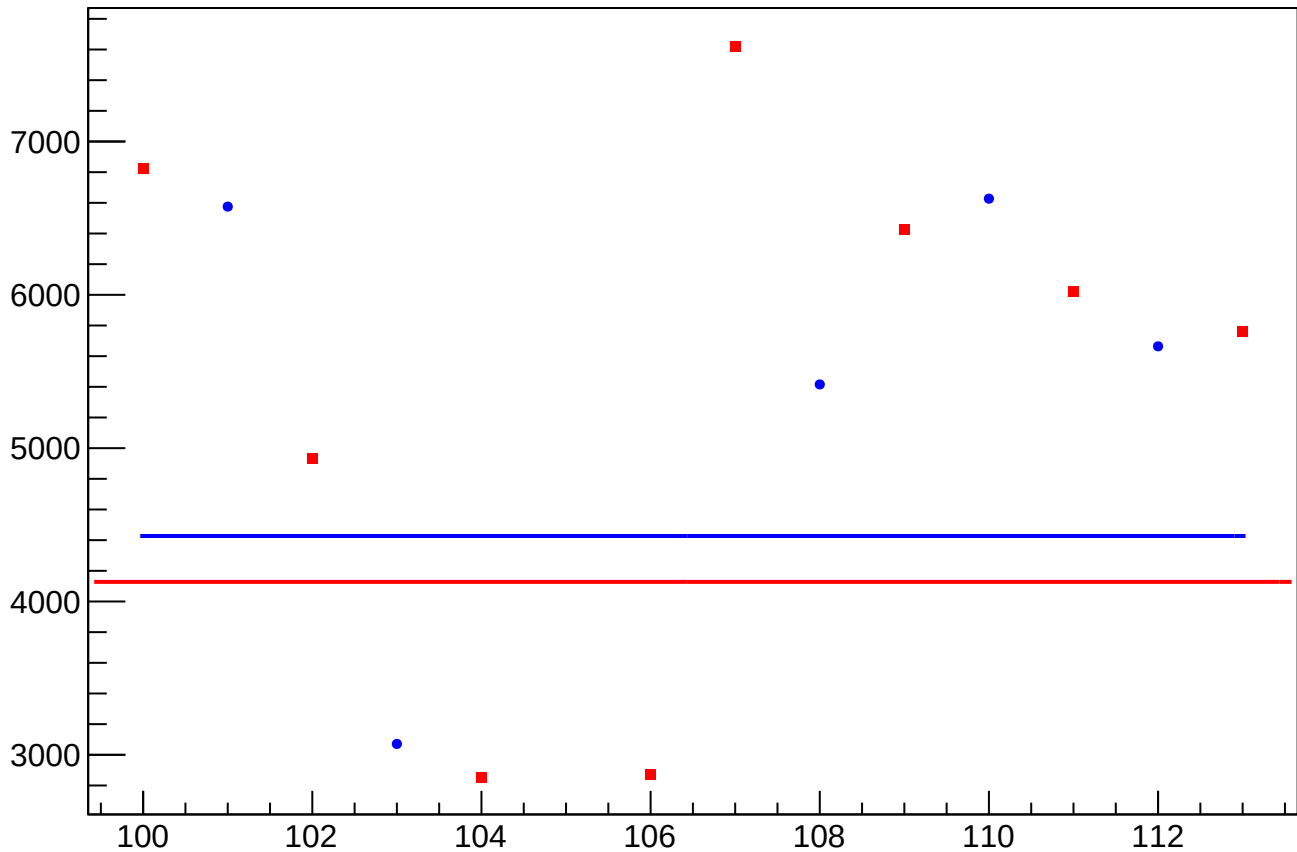
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1671.246+/-1967.753  $\chi^2/\text{NDF}$ : 19.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 4427.099+/-2.088  $\chi^2/\text{NDF}$ : 524579.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

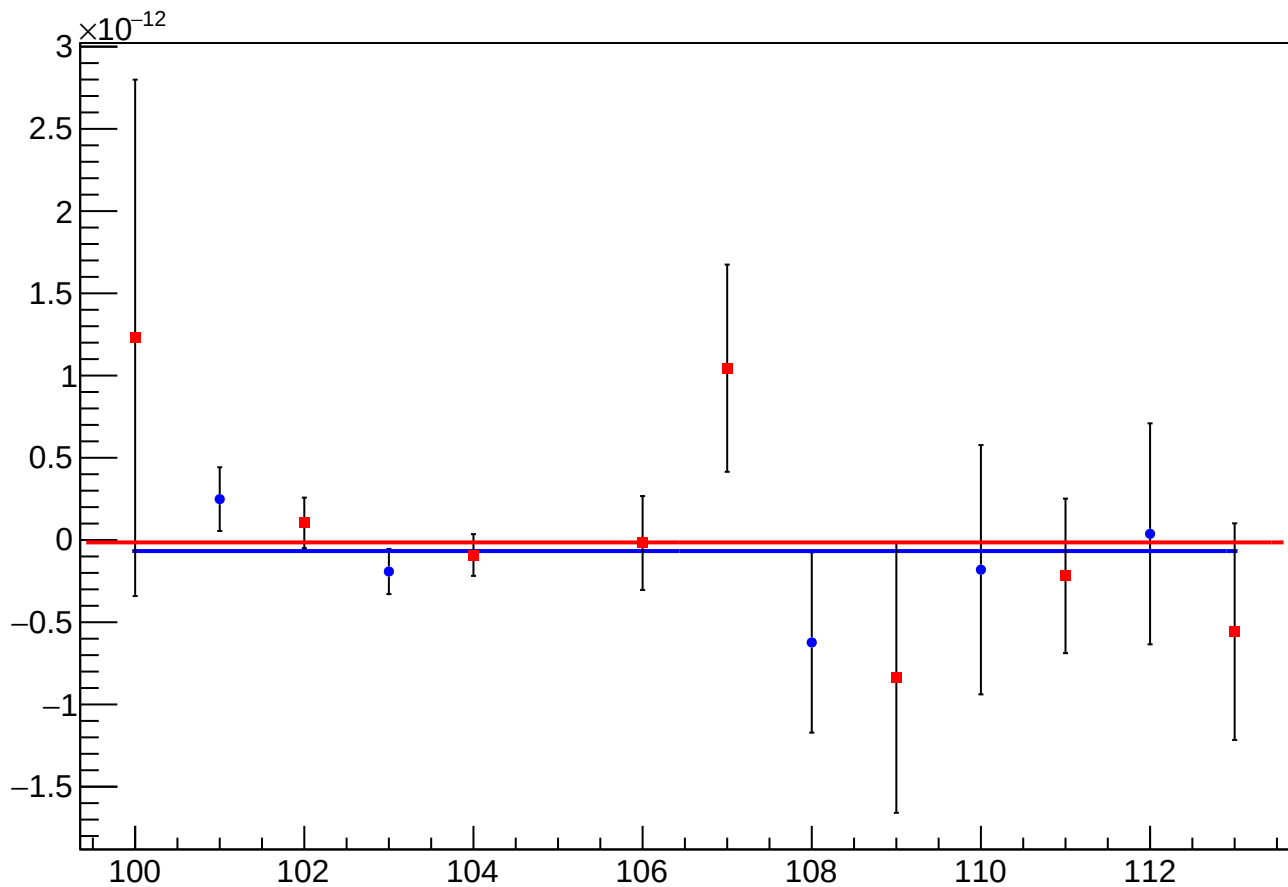
Right Out: 4127.972+/-1.797  $\chi^2/\text{NDF}$ : 738792.4/7

All: 4255.200+/-1.362  $\chi^2/\text{NDF}$ : 1275161.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.3/7

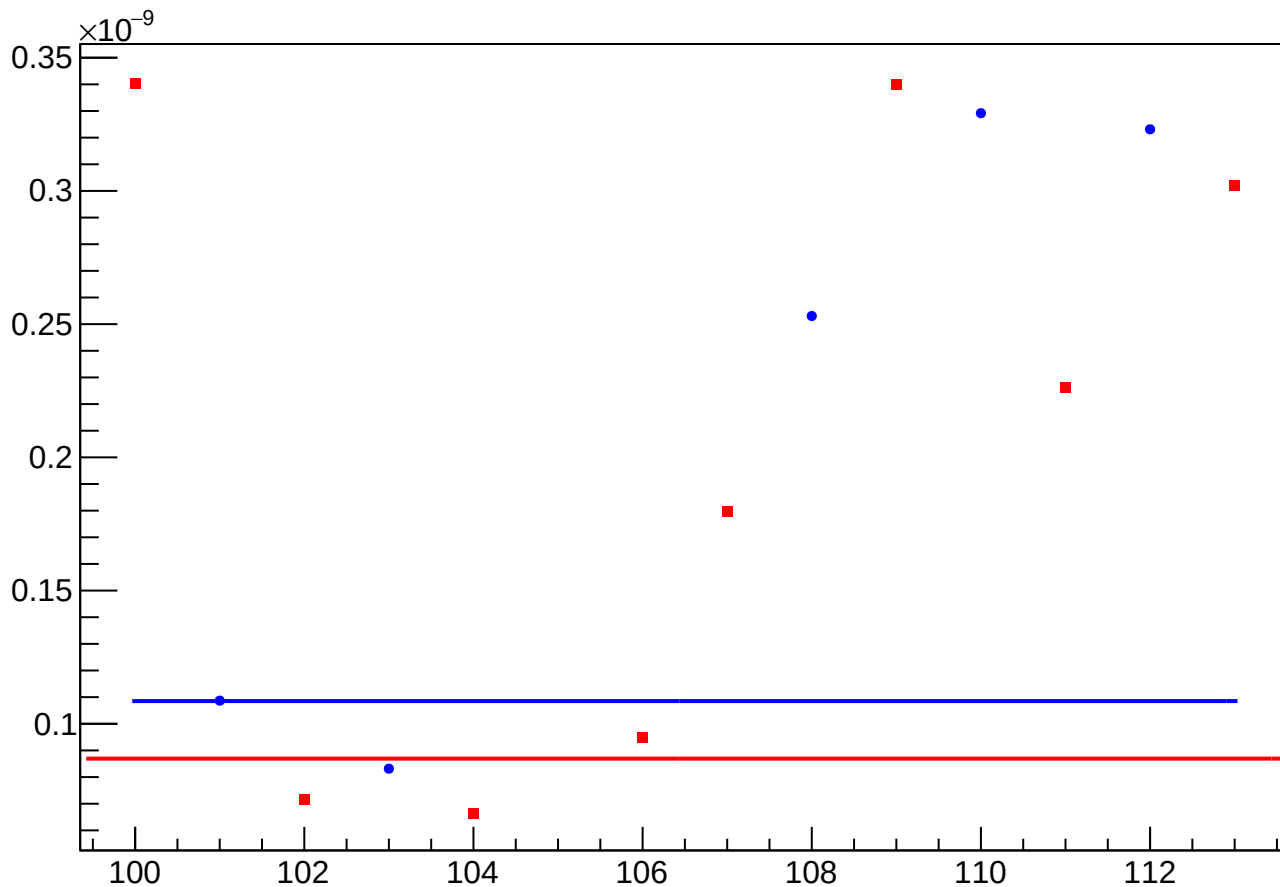
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 580645.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 749023.0/7

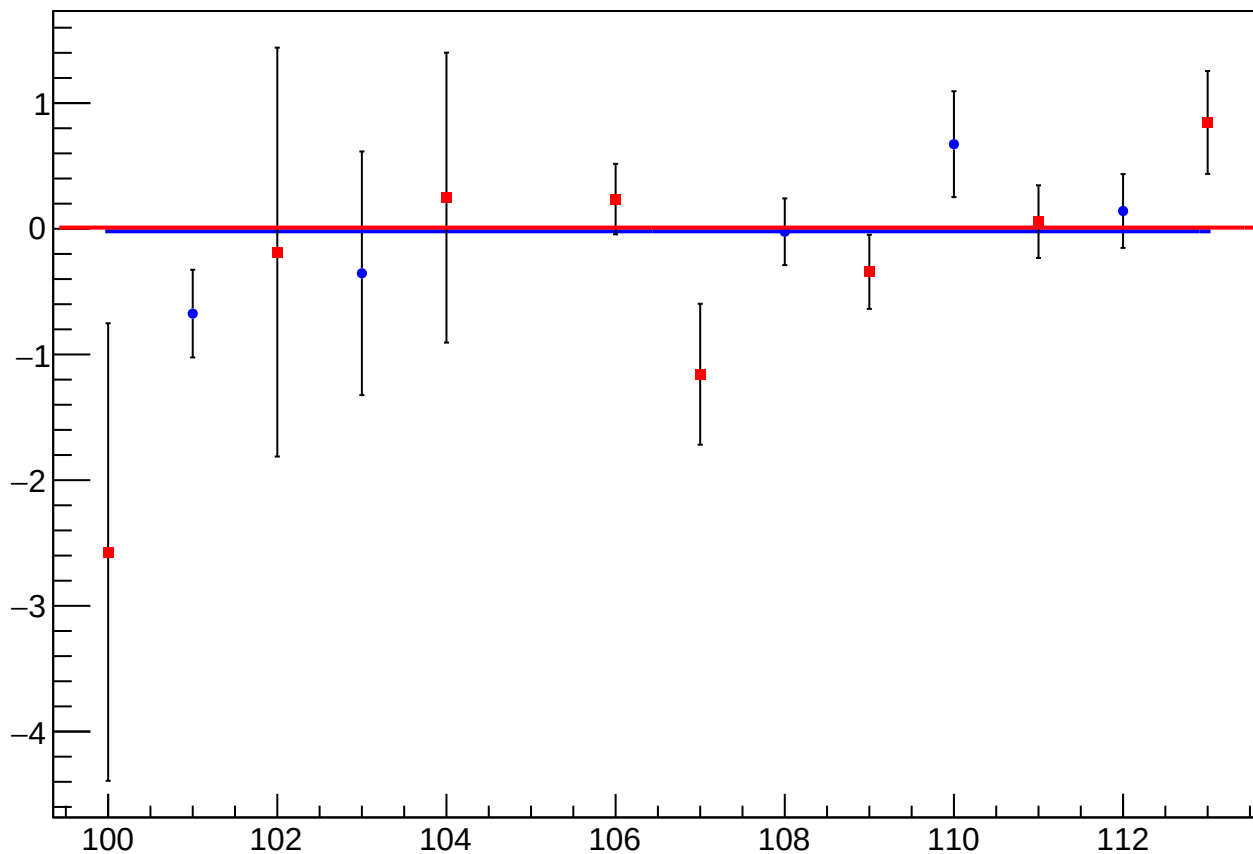
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1377949.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.020 $\pm$ 0.157  $\chi^2$ /NDF: 6.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.146  $\chi^2$ /NDF: 12.7/7

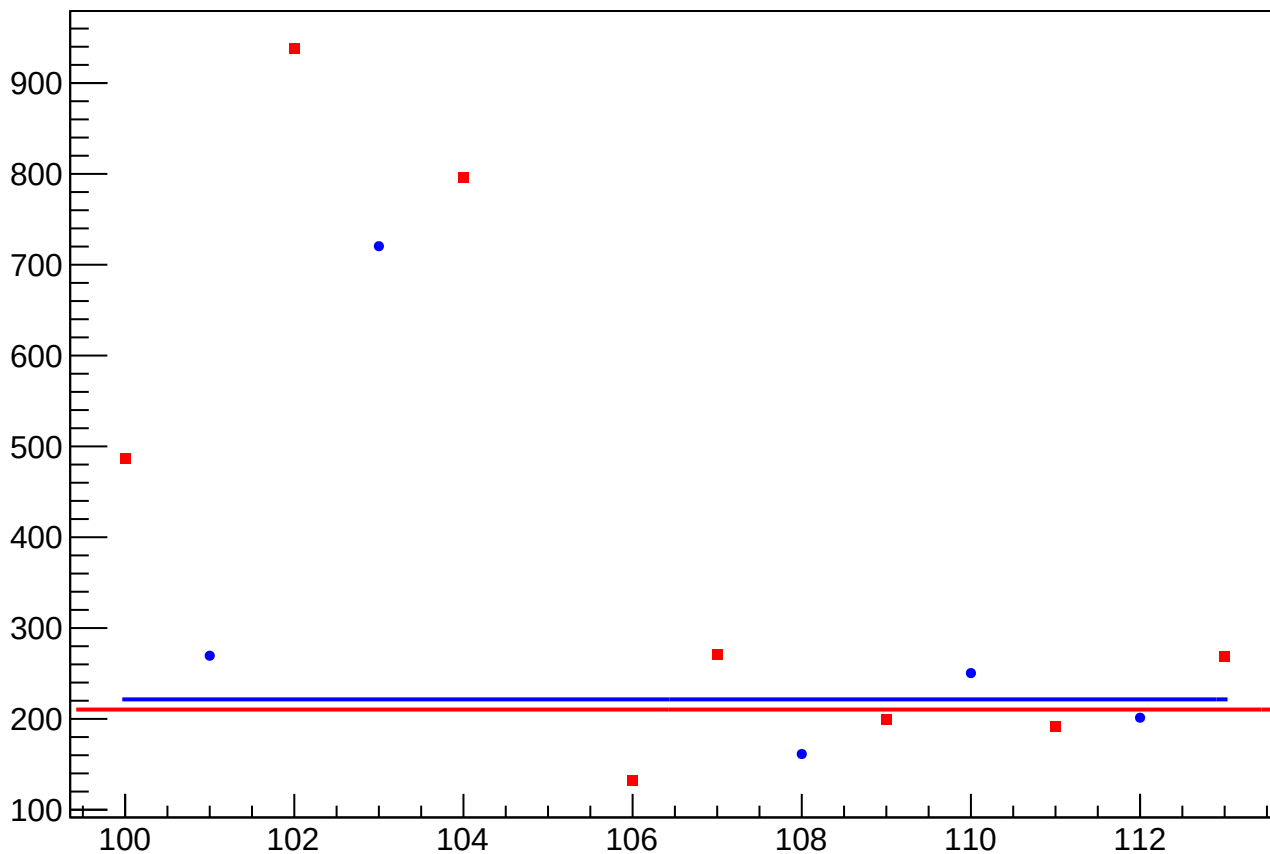
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.004 $\pm$ 0.107  $\chi^2$ /NDF: 19.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 221.483+/-0.111  $\chi^2/\text{NDF}$ : 689480.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 210.291+/-0.103  $\chi^2/\text{NDF}$ : 1192311.9/7

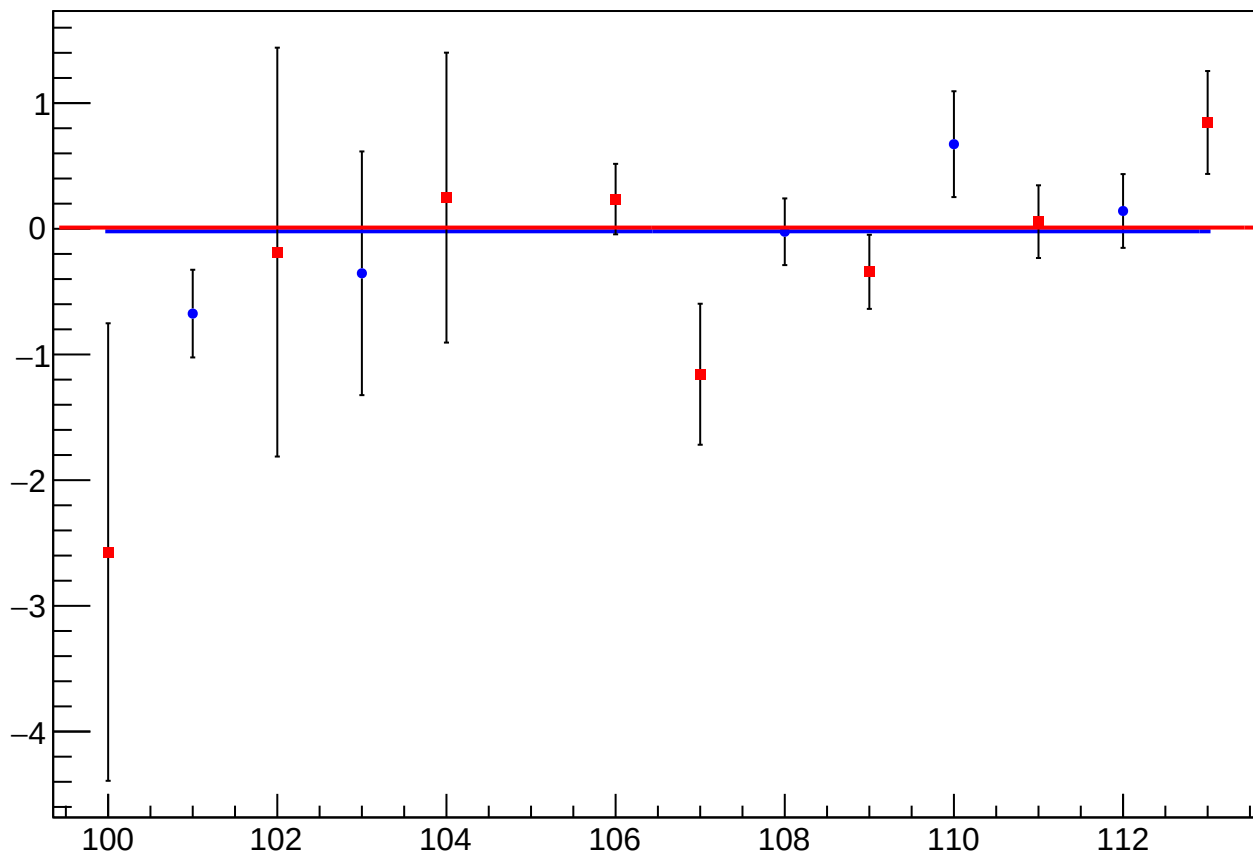
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 215.503+/-0.076  $\chi^2/\text{NDF}$ : 1887246.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.020 $\pm$ 0.157  $\chi^2$ /NDF: 6.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.146  $\chi^2$ /NDF: 12.7/7

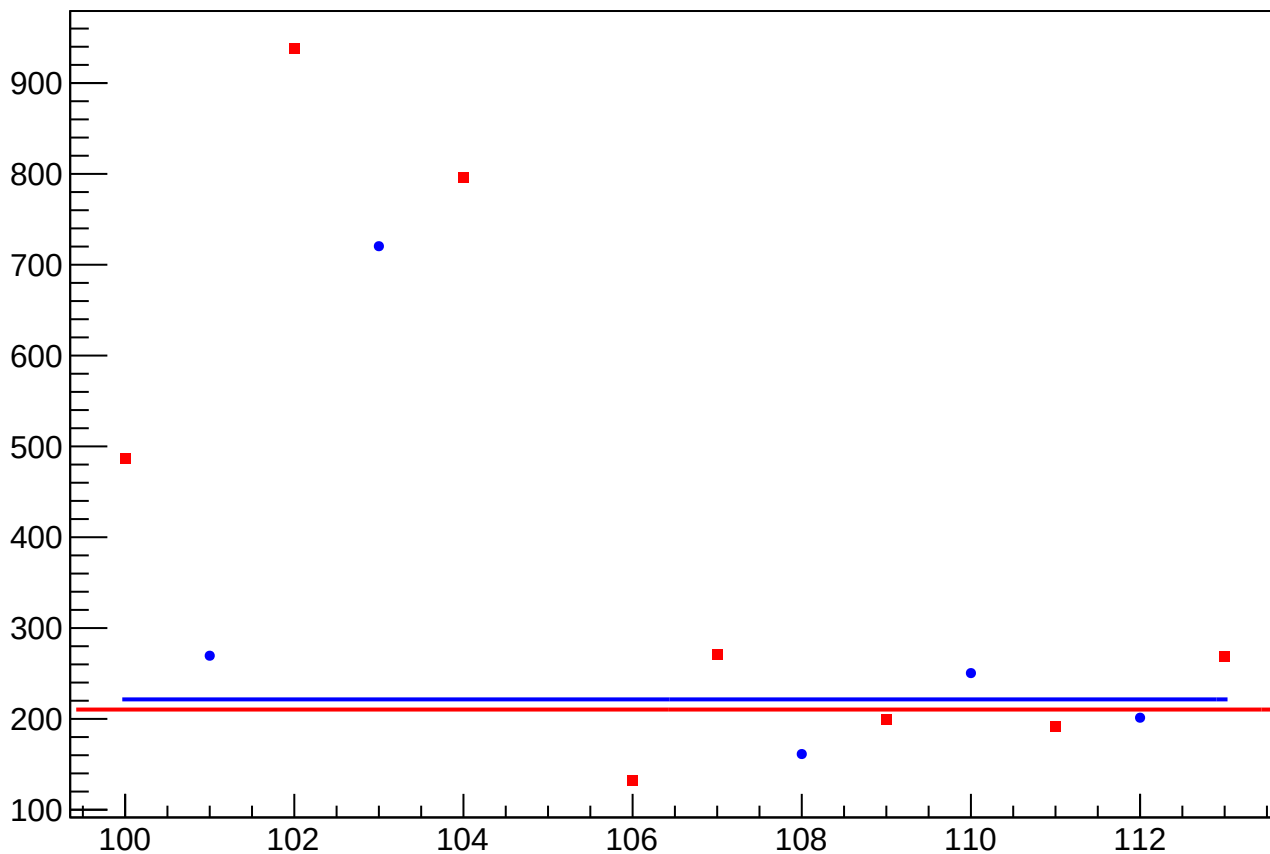
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.004 $\pm$ 0.107  $\chi^2$ /NDF: 19.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 221.483+/-0.111  $\chi^2/\text{NDF}$ : 689480.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 210.291+/-0.103  $\chi^2/\text{NDF}$ : 1192311.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

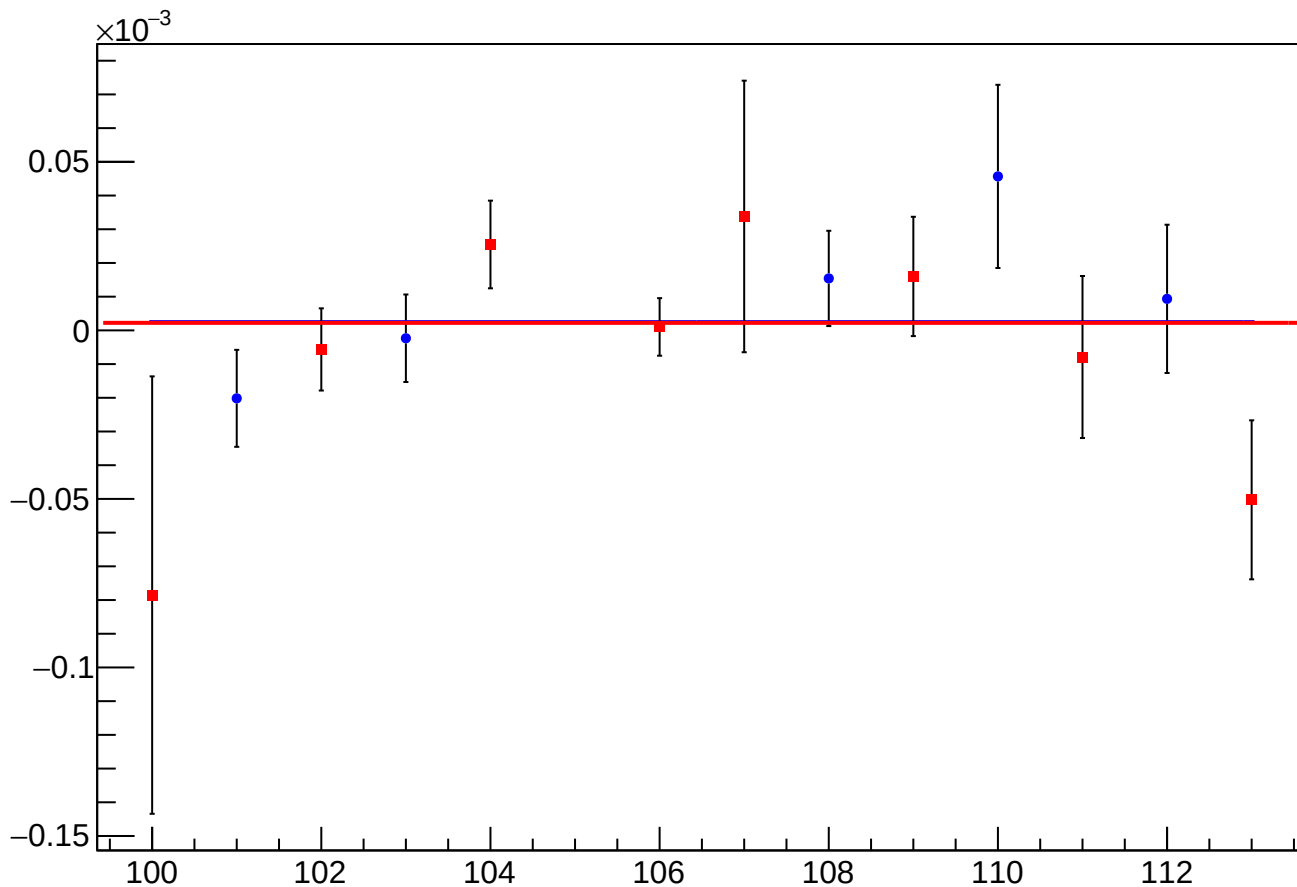
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 215.503+/-0.076  $\chi^2/\text{NDF}$ : 1887246.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.5/7

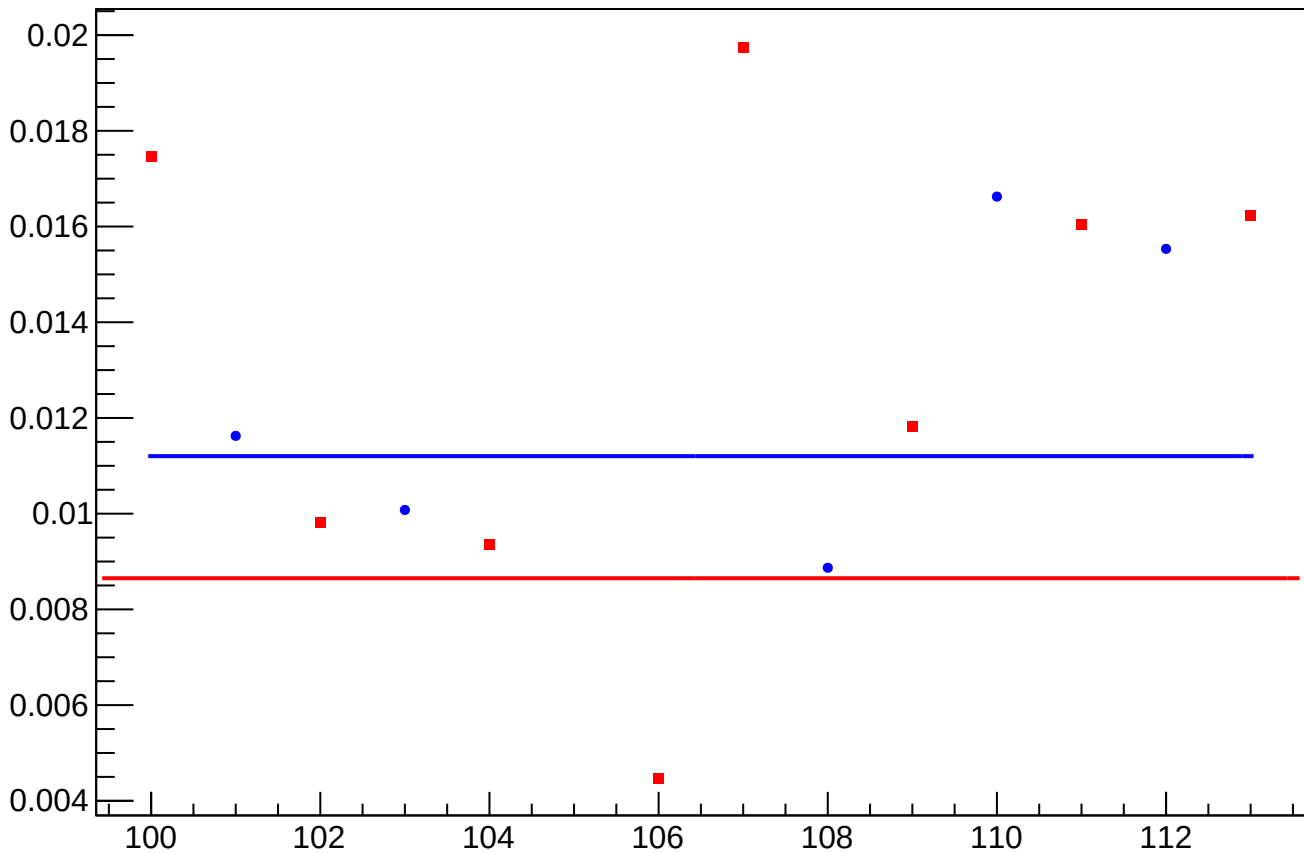
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 228417.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 1153923.3/7

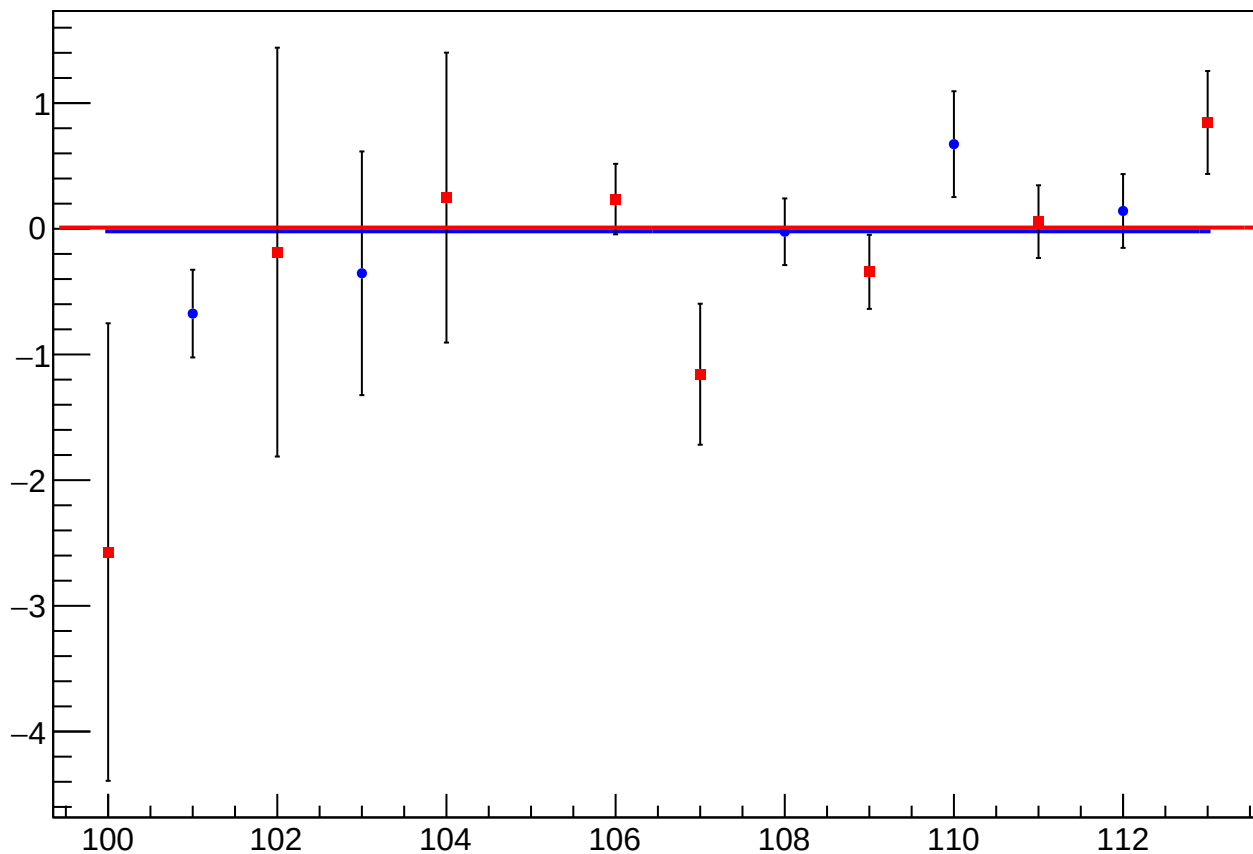
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 1541936.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.020 $\pm$ 0.157  $\chi^2$ /NDF: 6.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.146  $\chi^2$ /NDF: 12.7/7

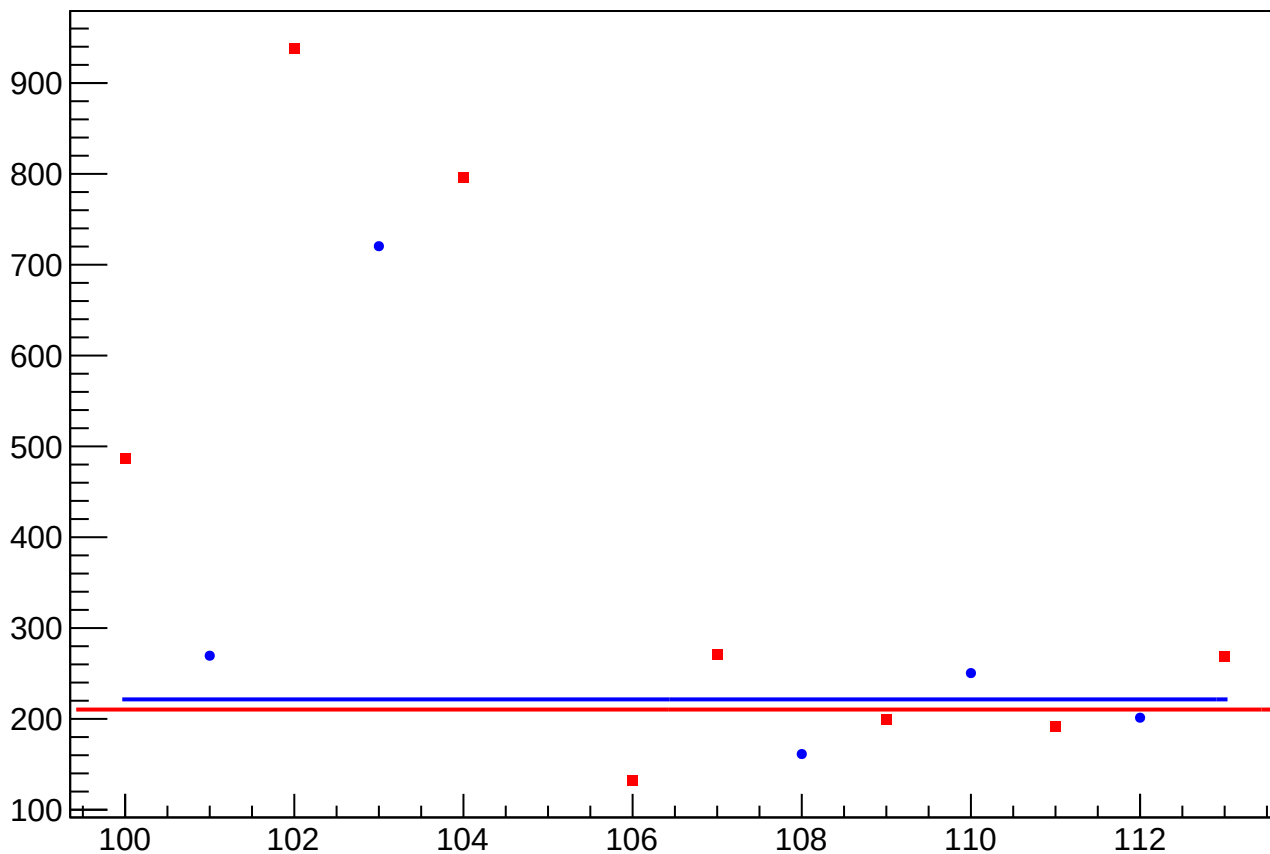
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.004 $\pm$ 0.107  $\chi^2$ /NDF: 19.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 221.487+/-0.111  $\chi^2/\text{NDF}$ : 689460.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 210.292+/-0.103  $\chi^2/\text{NDF}$ : 1192298.4/7

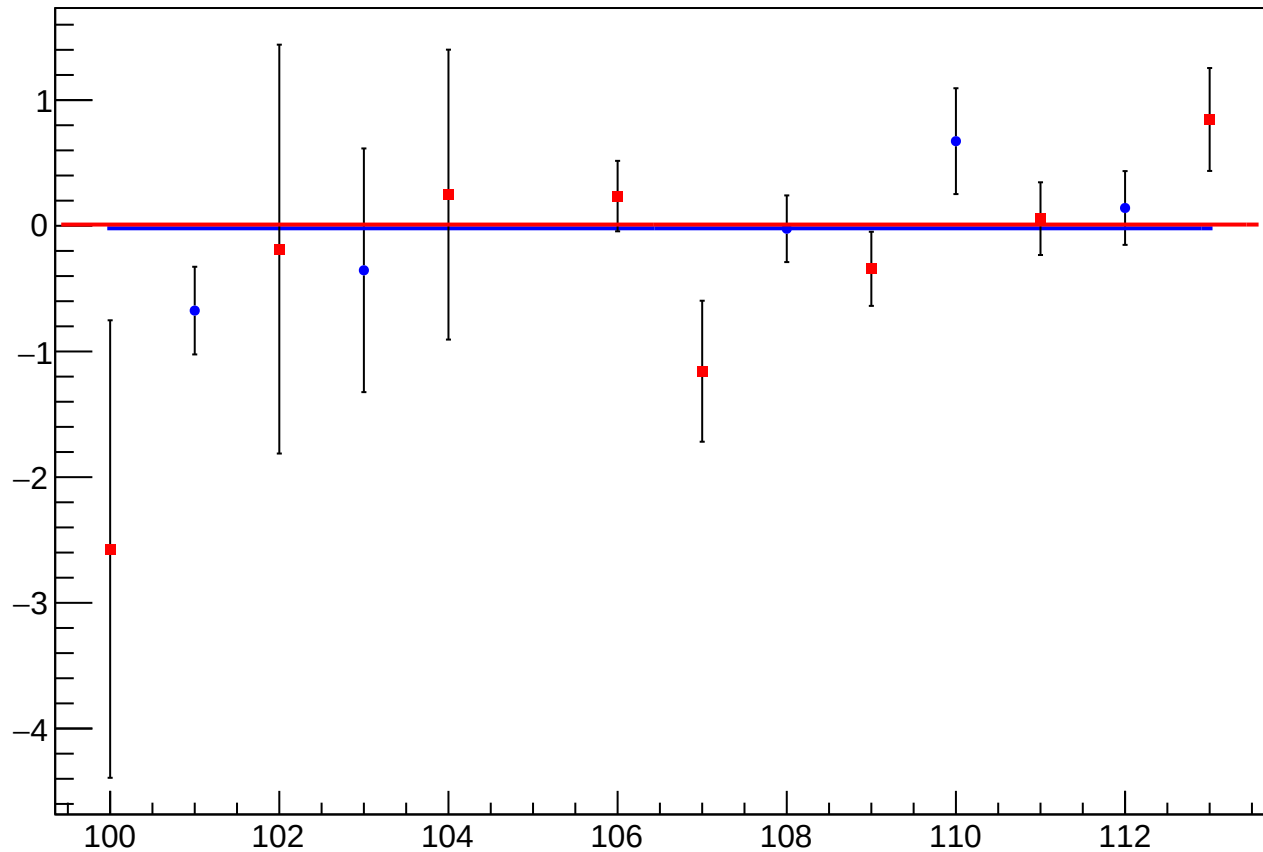
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 215.505+/-0.076  $\chi^2/\text{NDF}$ : 1887215.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.020 \pm 0.157$   $\chi^2/\text{NDF}$ : 6.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.010 \pm 0.146$   $\chi^2/\text{NDF}$ : 12.7/7

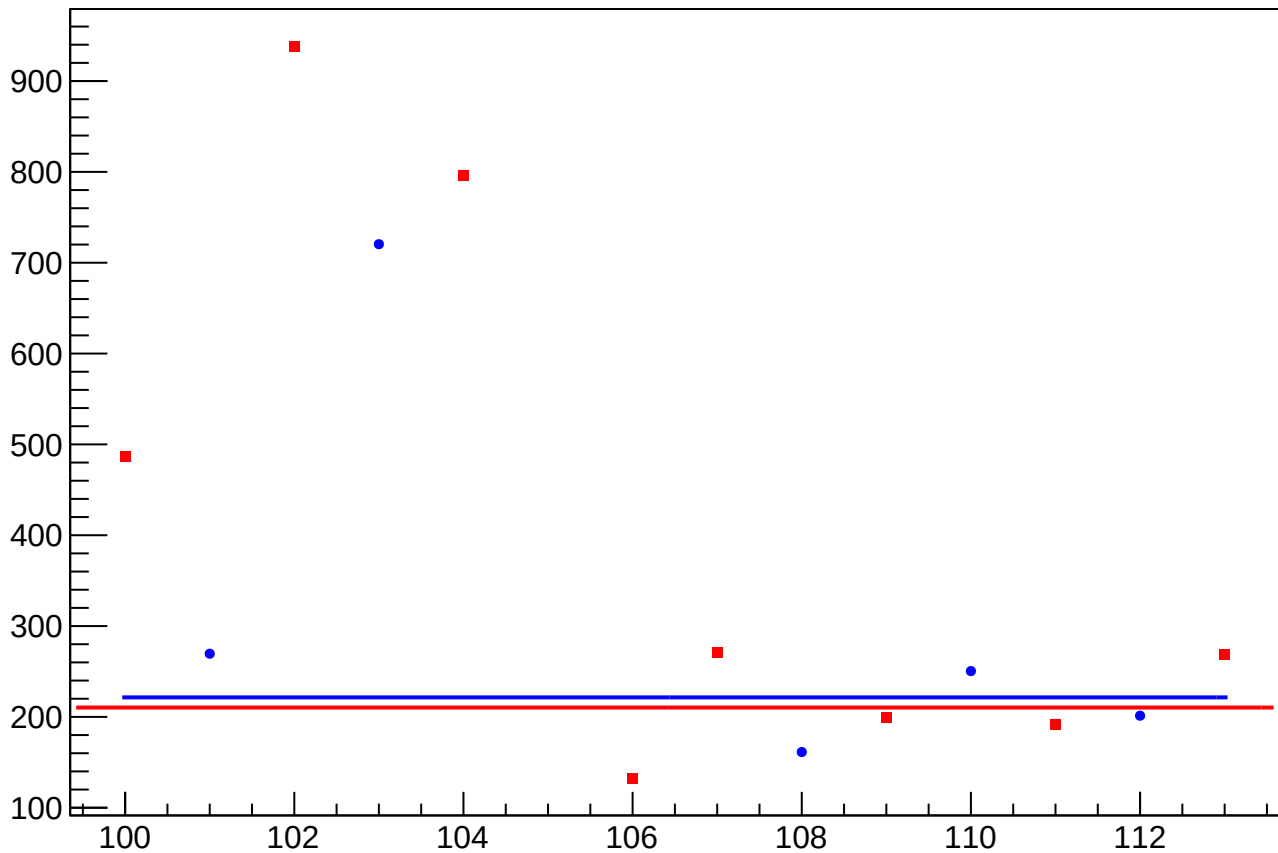
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.004 \pm 0.107$   $\chi^2/\text{NDF}$ : 19.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 221.487+/-0.111  $\chi^2/\text{NDF}$ : 689460.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

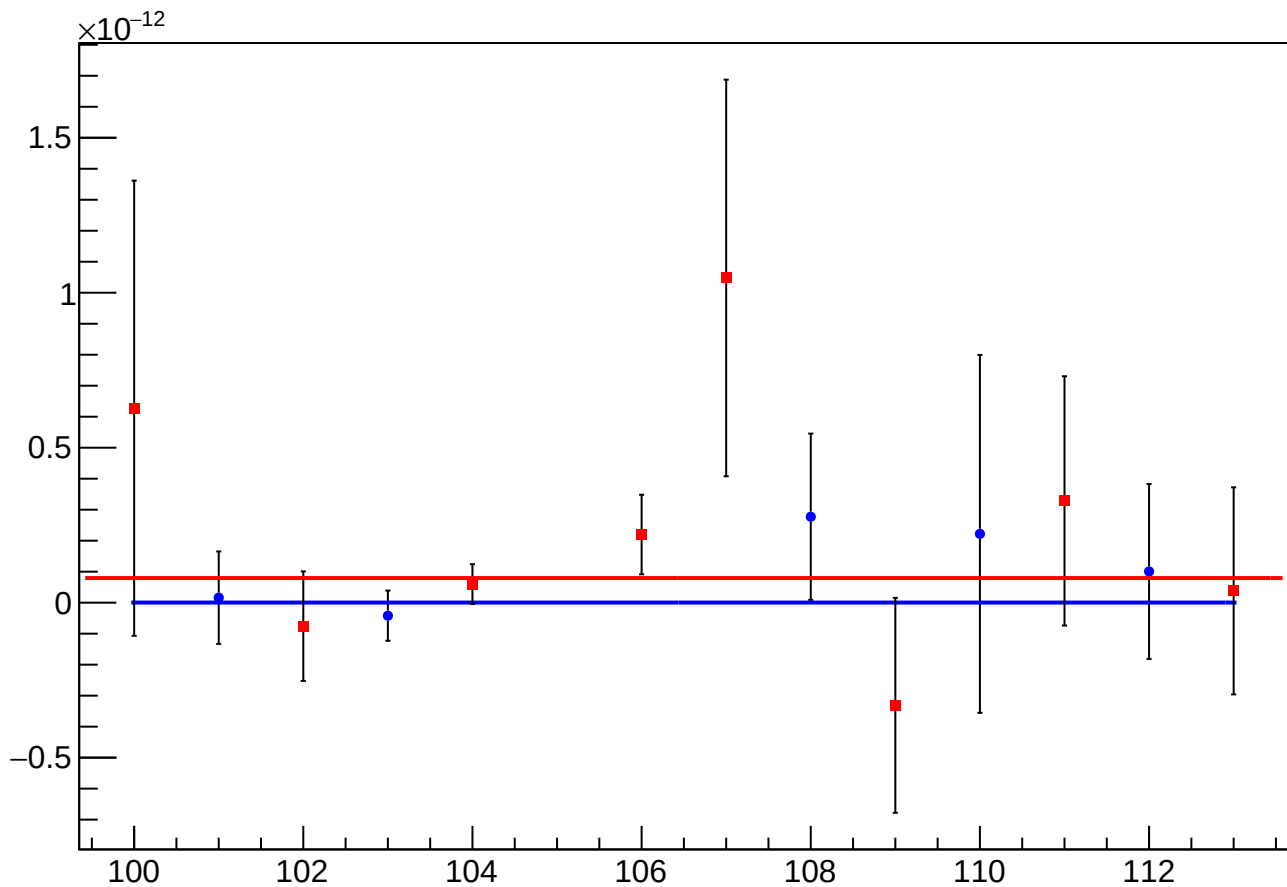
Right Out: 210.292+/-0.103  $\chi^2/\text{NDF}$ : 1192298.4/7

All: 215.505+/-0.076  $\chi^2/\text{NDF}$ : 1887215.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.7/7

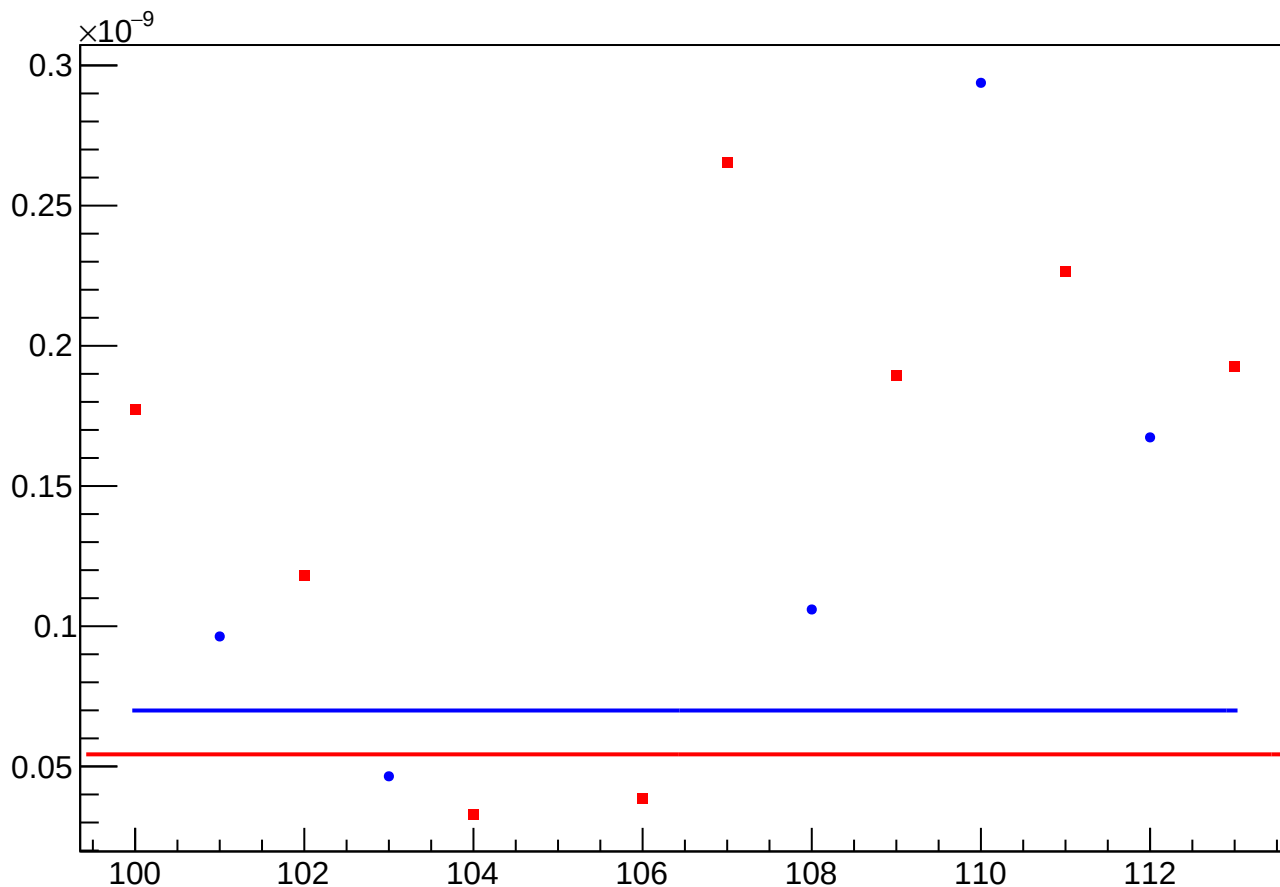
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 805792.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1804413.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

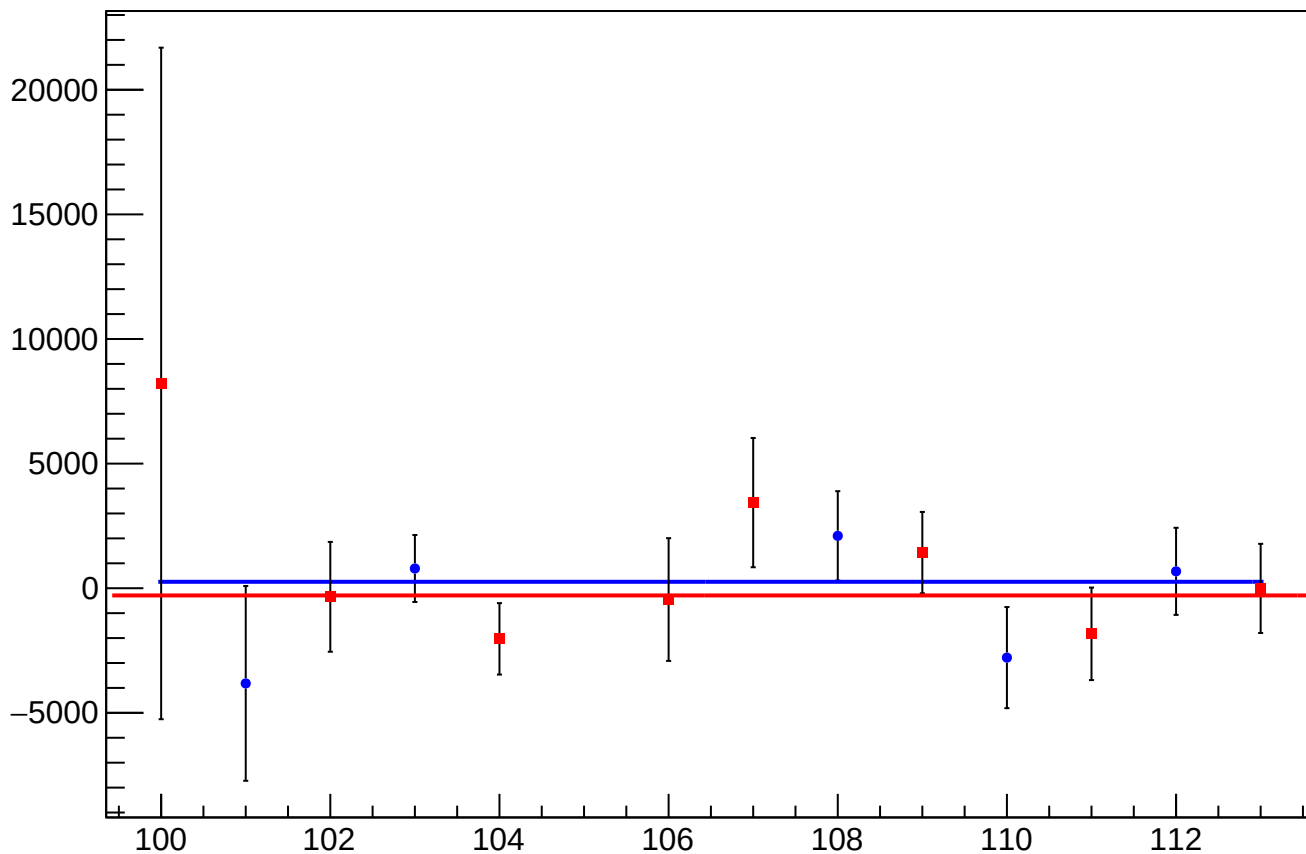
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2678653.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: 258.093+/-816.193  $\chi^2/\text{NDF}$ : 4.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -289.236+/-708.931  $\chi^2/\text{NDF}$ : 5.8/7

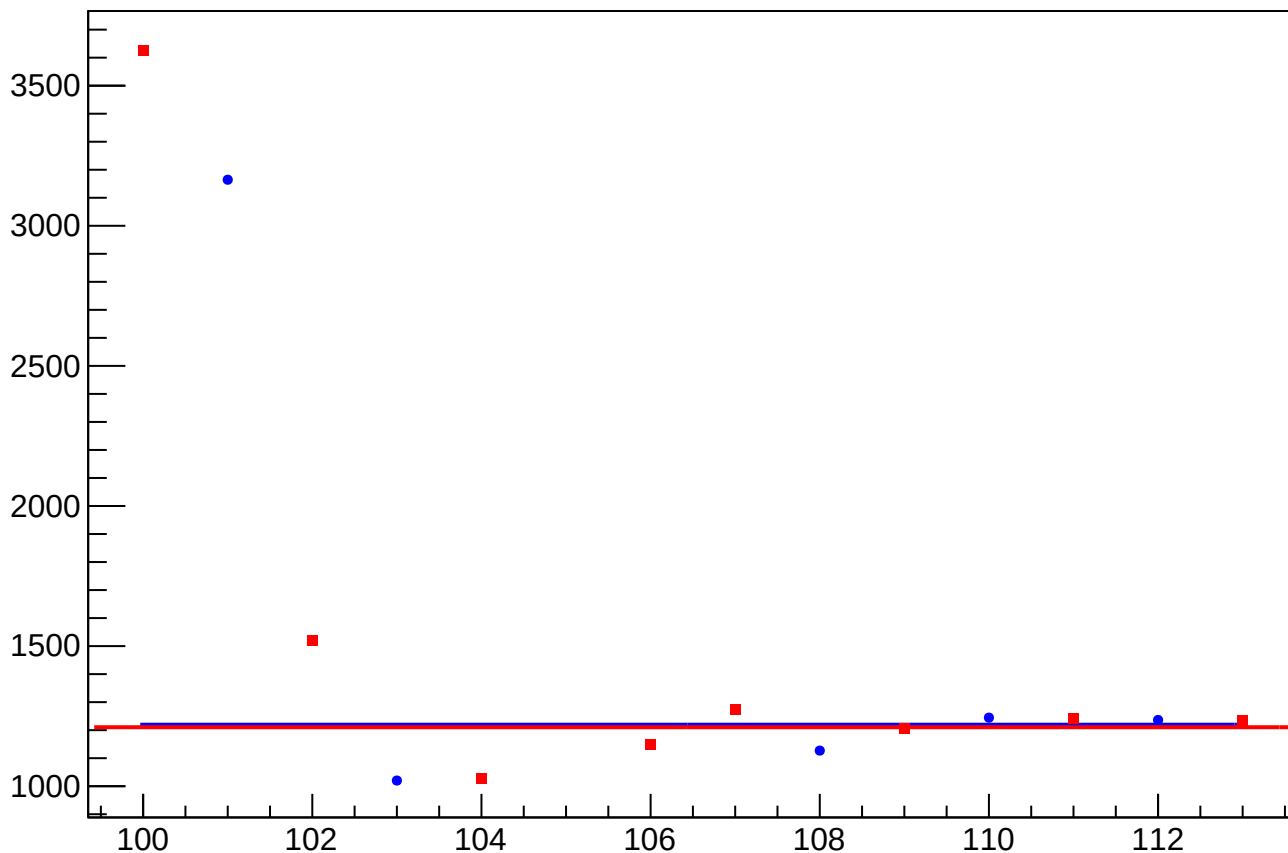
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -53.876+/-535.223  $\chi^2/\text{NDF}$ : 10.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1219.437+/-0.577  $\chi^2/\text{NDF}$ : 545286.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1210.477+/-0.499  $\chi^2/\text{NDF}$ : 140441.2/7

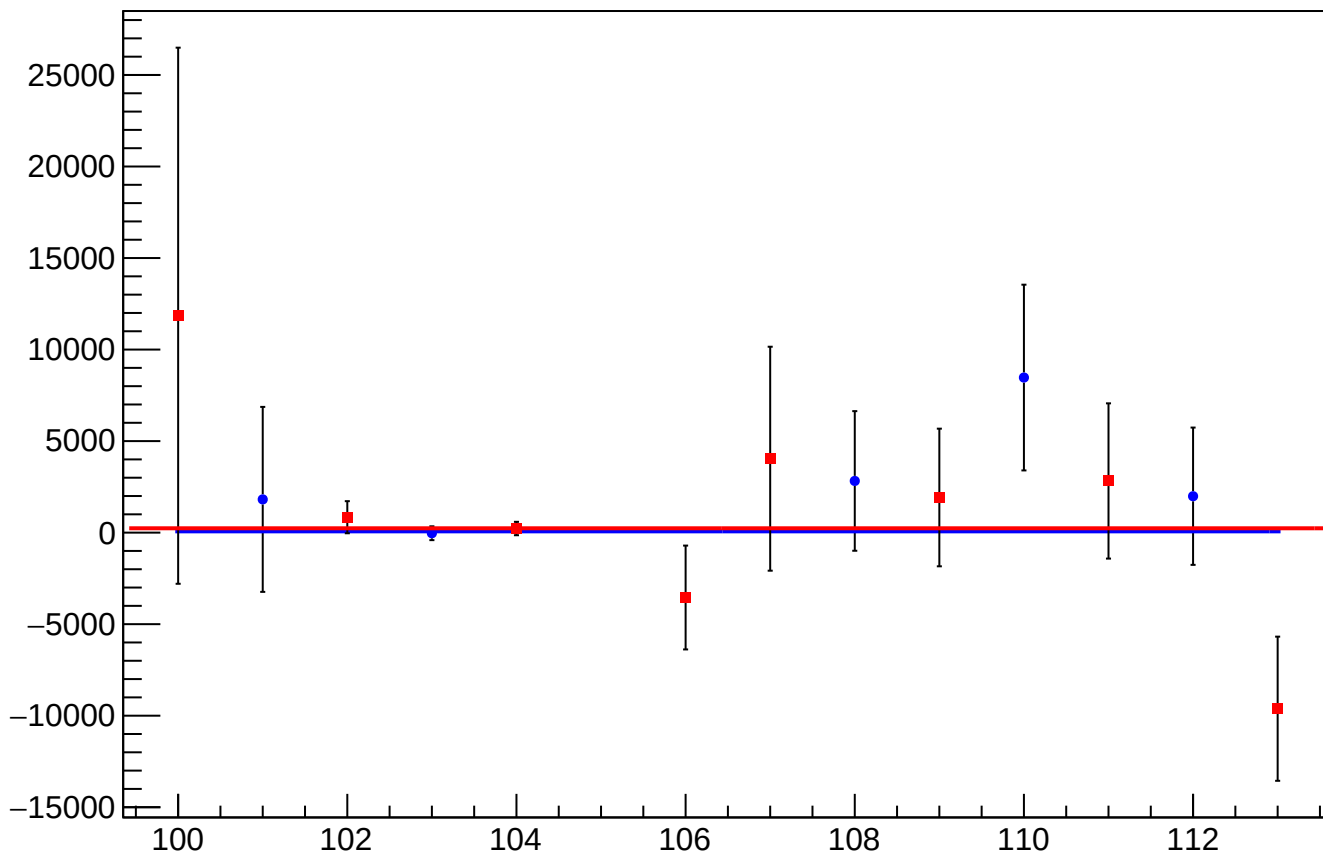
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1214.309+/-0.377  $\chi^2/\text{NDF}$ : 685865.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_reg\_correction\_mean vs Slug



Right In: 70.343+/-371.878  $\chi^2/\text{NDF}$ : 3.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 237.321+/-331.408  $\chi^2/\text{NDF}$ : 10.1/7

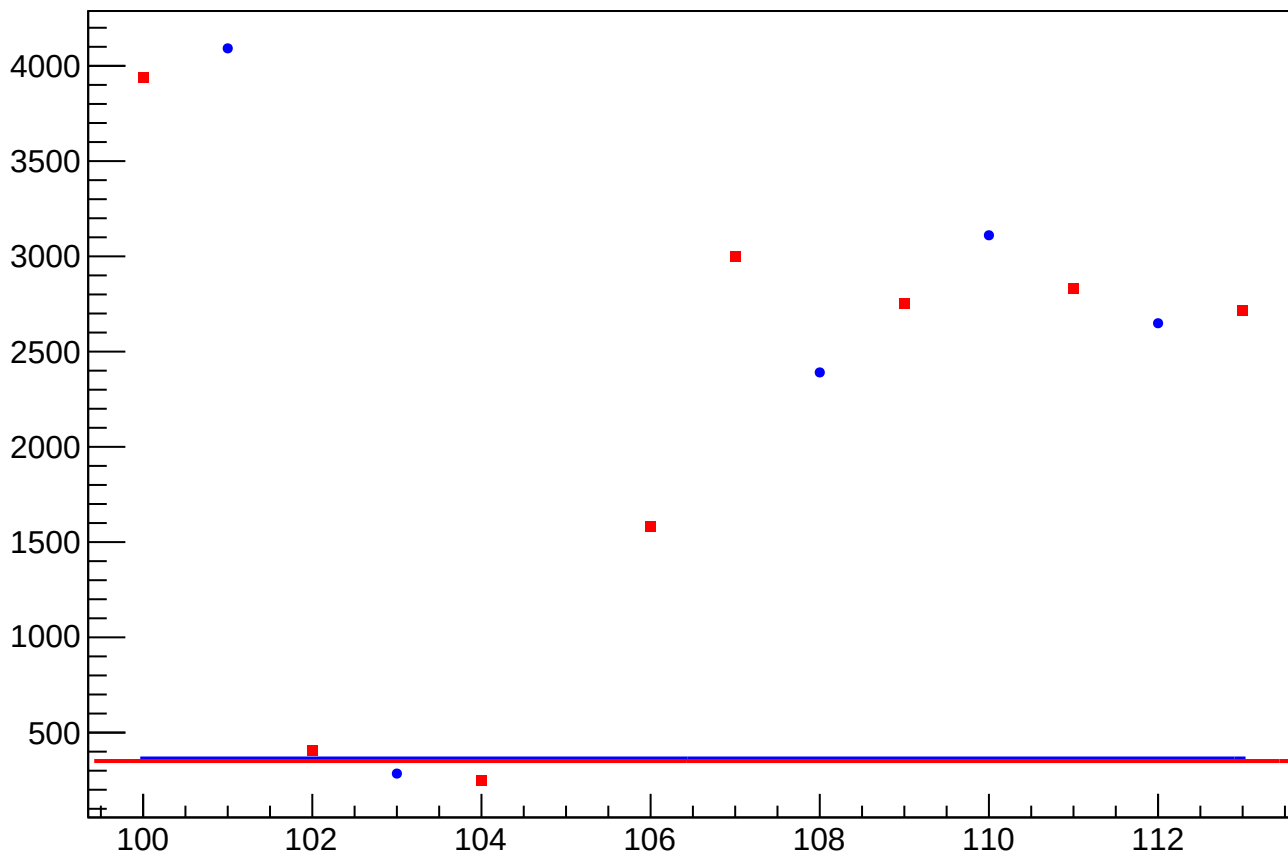
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 163.409+/-247.417  $\chi^2/\text{NDF}$ : 13.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_reg\_correction\_rms vs Slug



Right In: 363.982+/-0.263  $\chi^2/\text{NDF}$ : 3070302.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 350.781+/-0.234  $\chi^2/\text{NDF}$ : 3260782.9/7

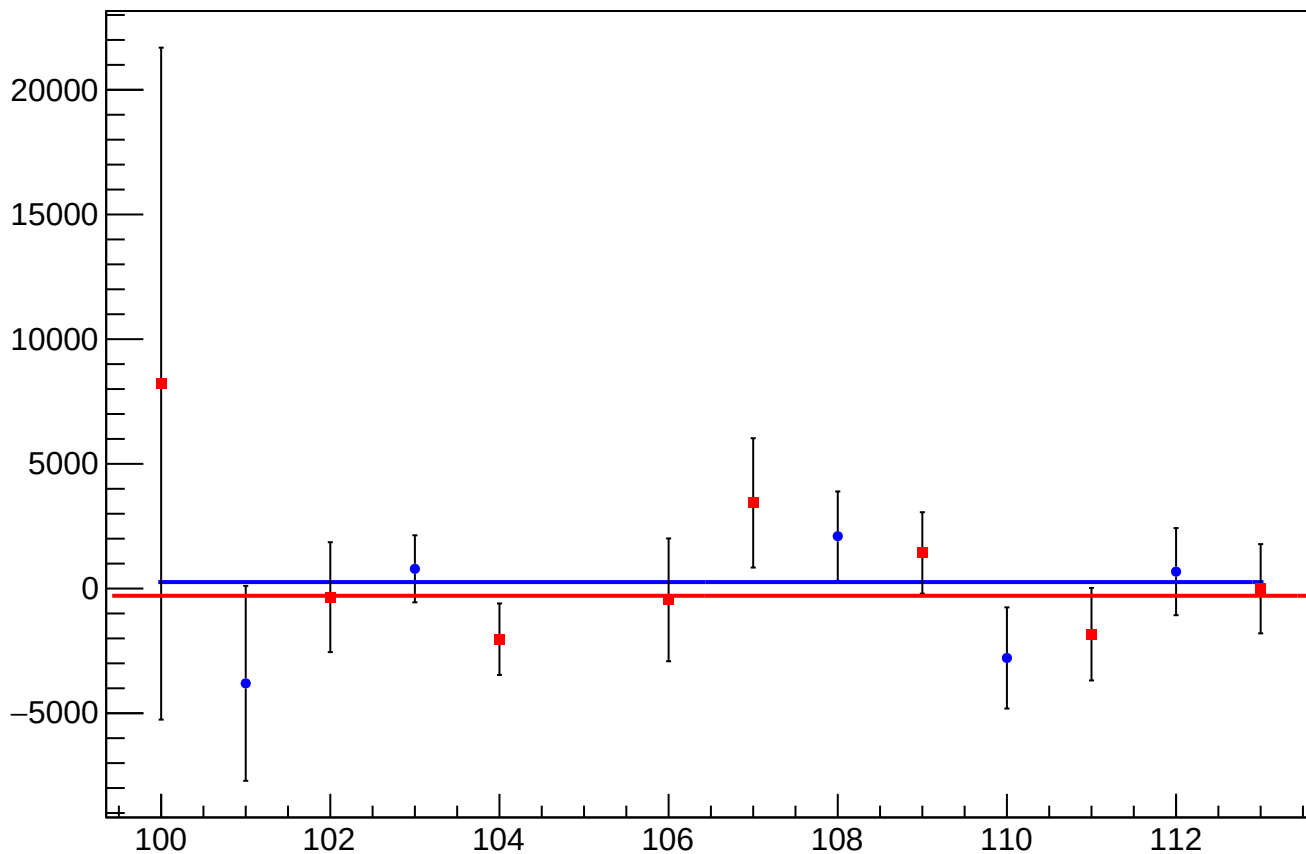
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 356.624+/-0.175  $\chi^2/\text{NDF}$ : 6332490.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: 258.794 $\pm$ 816.194  $\chi^2$ /NDF: 4.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -289.652 $\pm$ 708.931  $\chi^2$ /NDF: 5.8/7

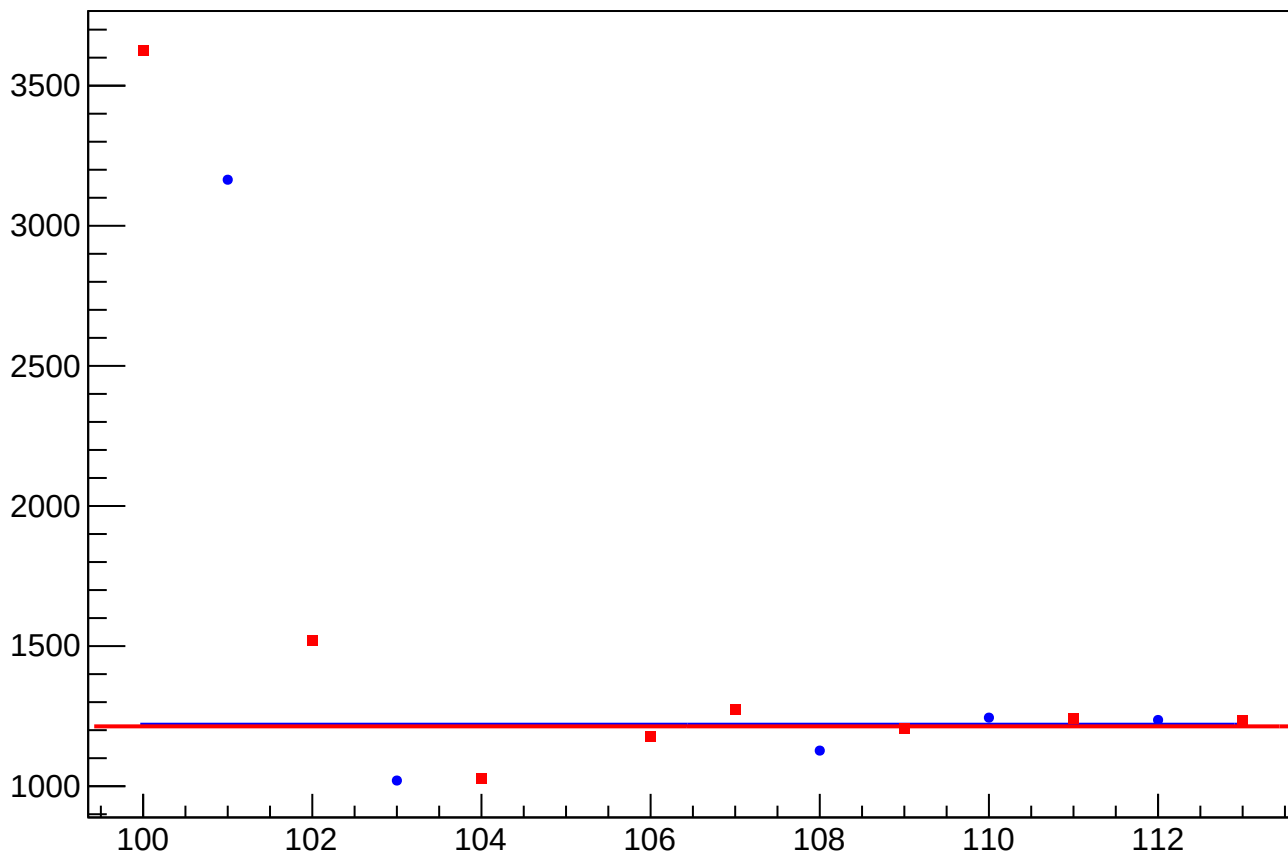
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -53.812 $\pm$ 535.224  $\chi^2$ /NDF: 10.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1219.437 $\pm$ 0.577  $\chi^2$ /NDF: 545288.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1213.573 $\pm$ 0.501  $\chi^2$ /NDF: 139284.3/7

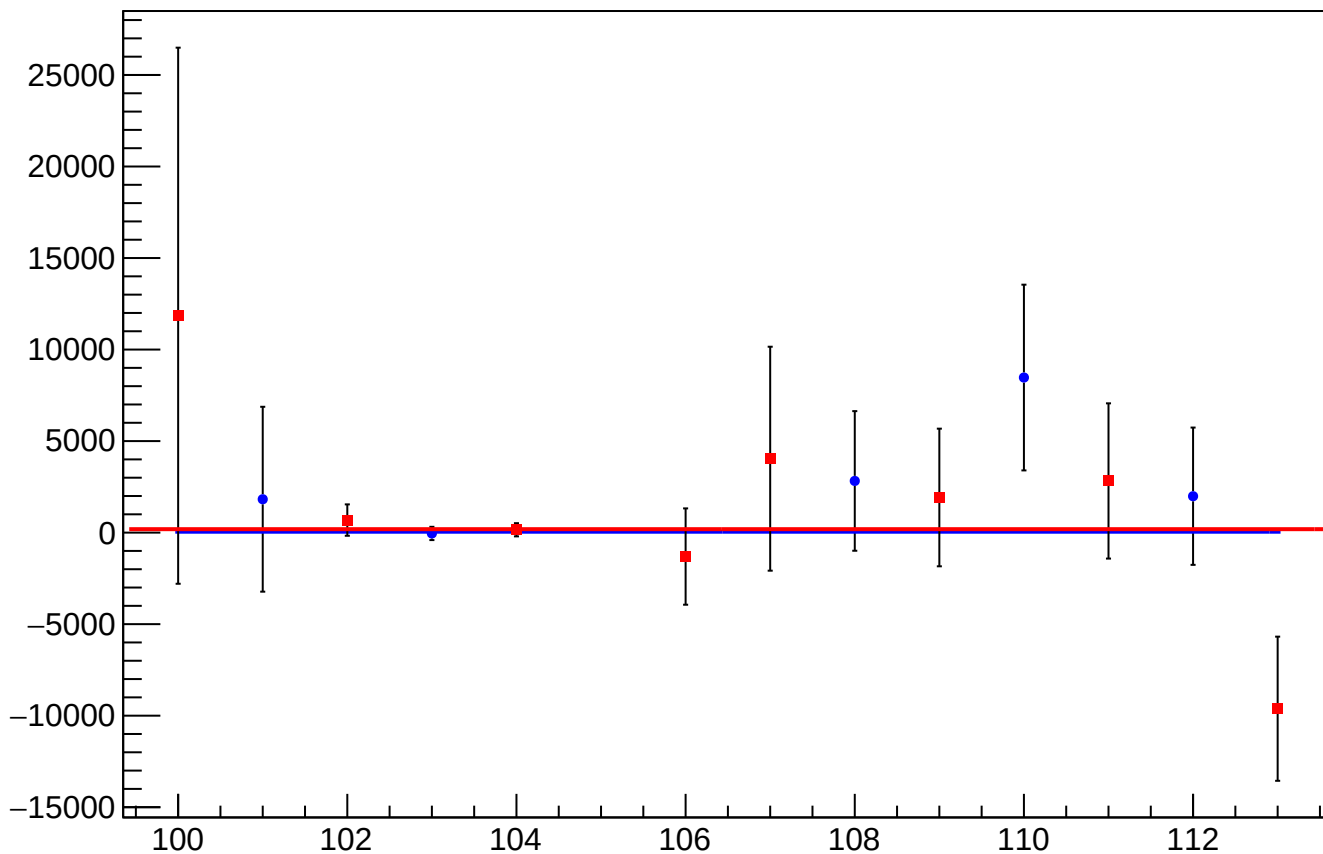
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1216.090 $\pm$ 0.378  $\chi^2$ /NDF: 684631.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_cor\_correction\_mean vs Slug



Right In: 49.955+/-357.188  $\chi^2/\text{NDF}$ : 3.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 188.262+/-325.799  $\chi^2/\text{NDF}$ : 8.5/7

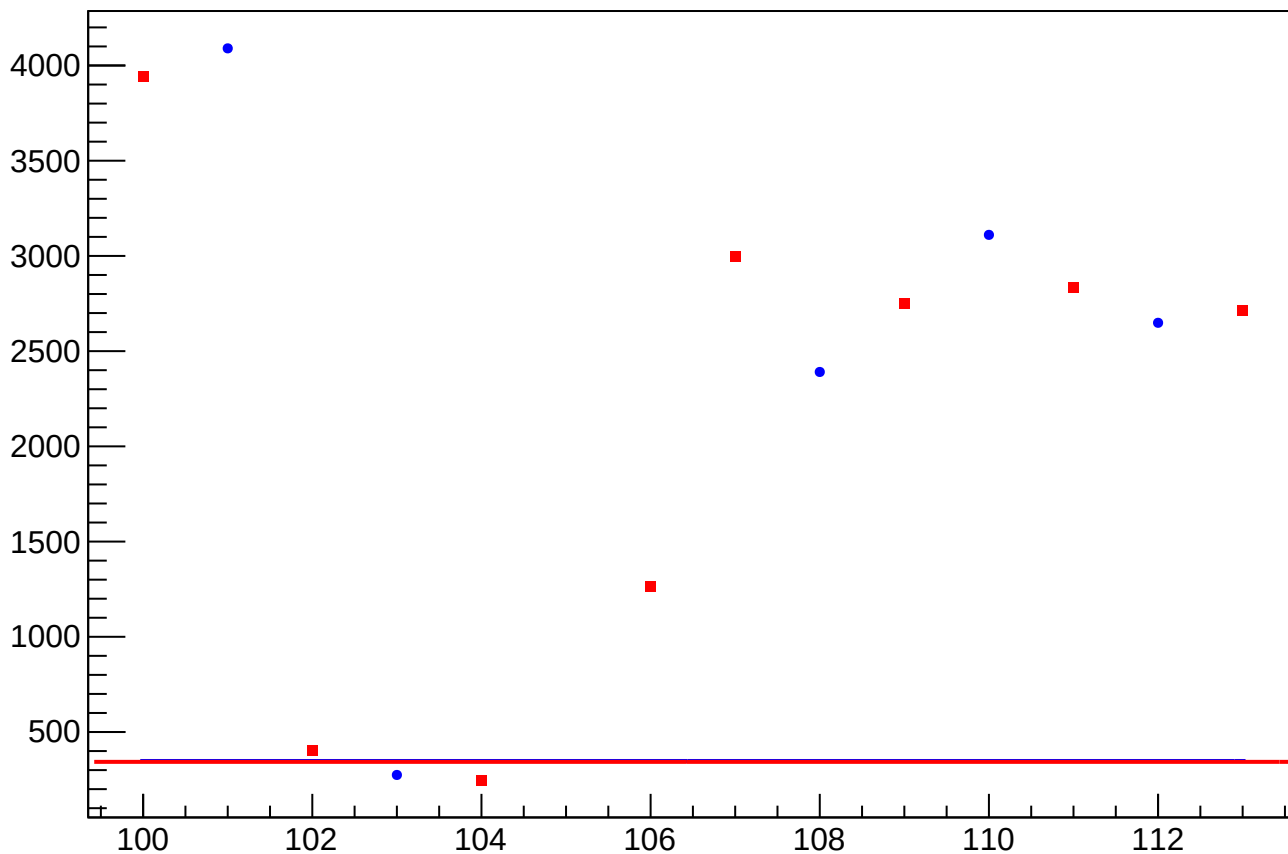
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 125.451+/-240.708  $\chi^2/\text{NDF}$ : 12.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_cor\_correction\_rms vs Slug



Right In: 347.812 $\pm$ 0.253  $\chi^2$ /NDF: 3100227.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 343.297 $\pm$ 0.230  $\chi^2$ /NDF: 3138780.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

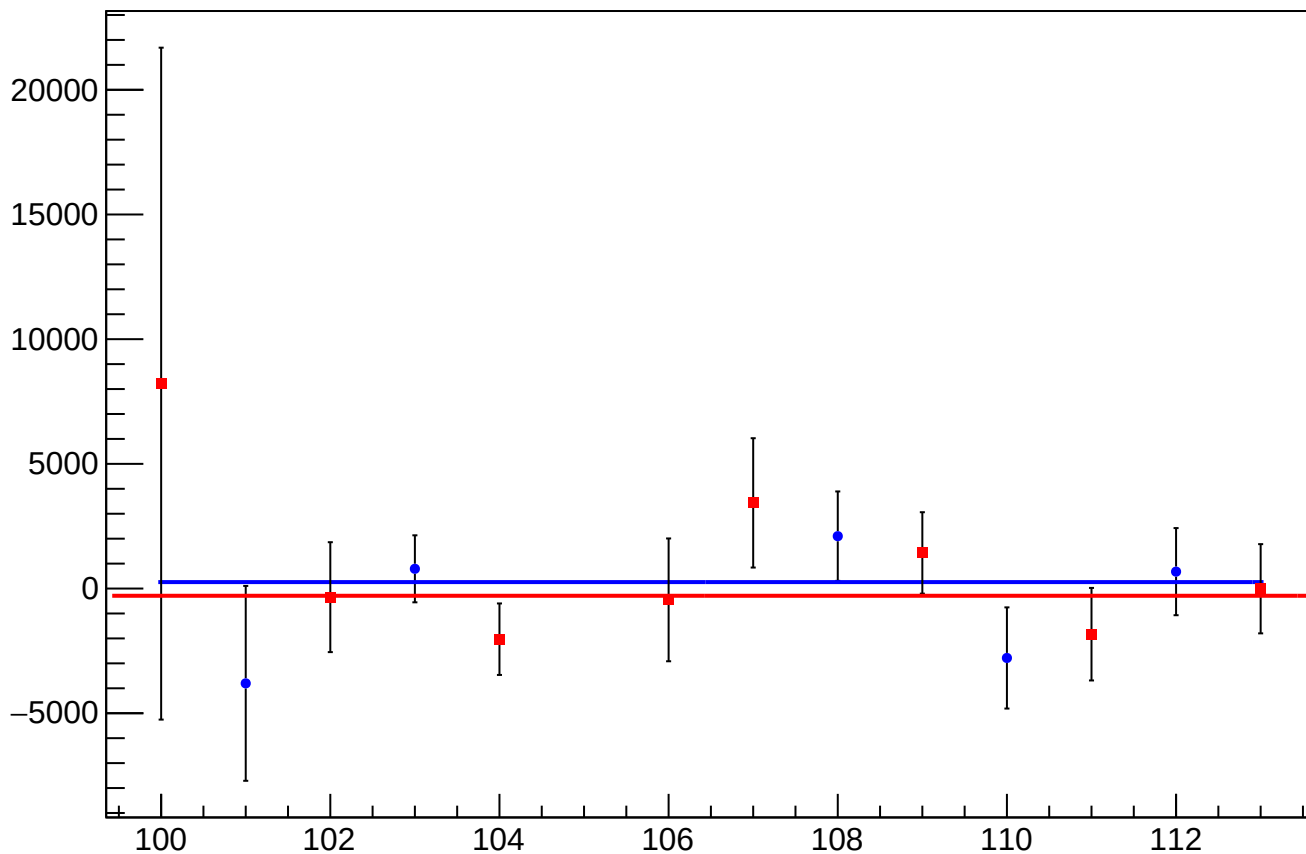
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 345.347 $\pm$ 0.170  $\chi^2$ /NDF: 6239183.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



eigen\_cor\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: 258.794 $\pm$ 816.194  $\chi^2$ /NDF: 4.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -289.652 $\pm$ 708.931  $\chi^2$ /NDF: 5.8/7

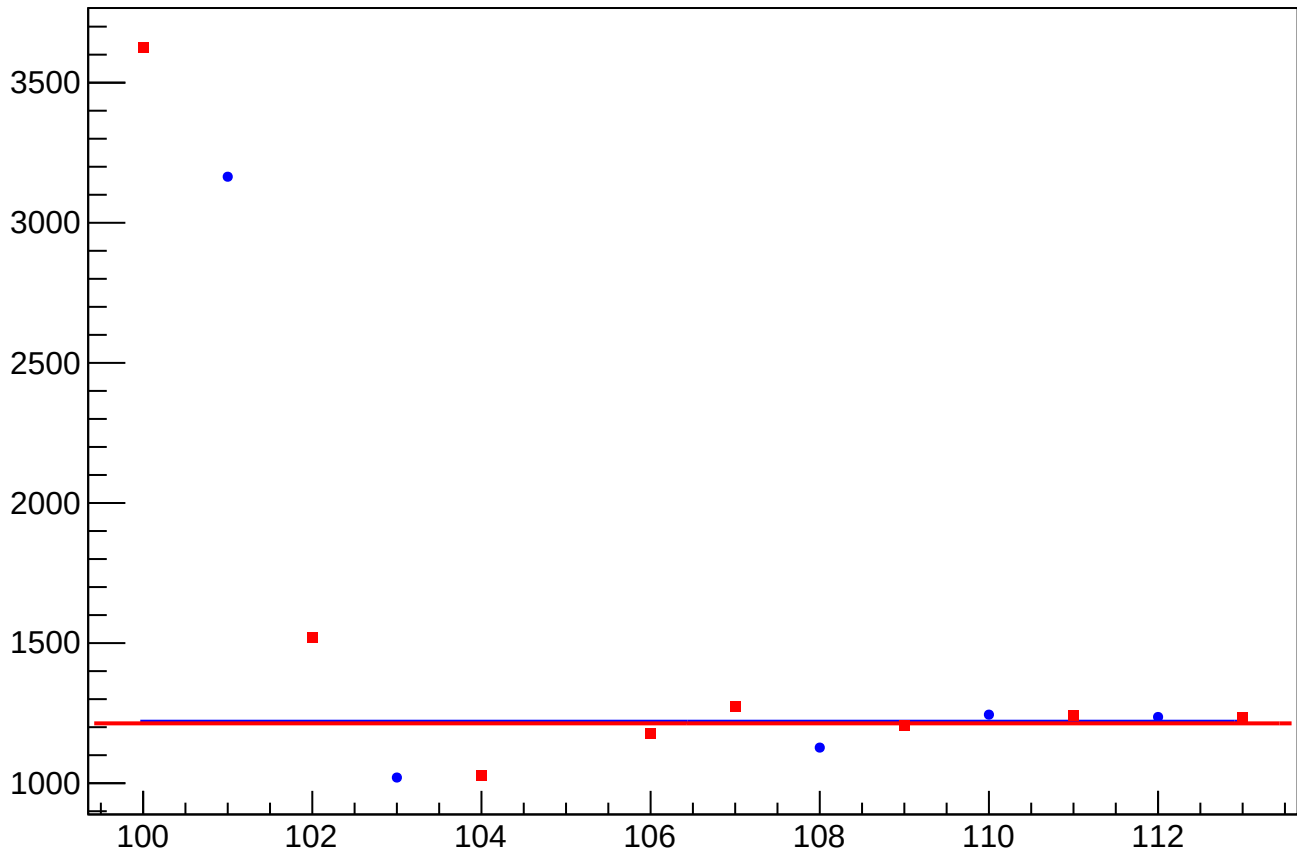
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -53.812 $\pm$ 535.224  $\chi^2$ /NDF: 10.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1219.437 $\pm$ 0.577  $\chi^2$ /NDF: 545288.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1213.573 $\pm$ 0.501  $\chi^2$ /NDF: 139284.3/7

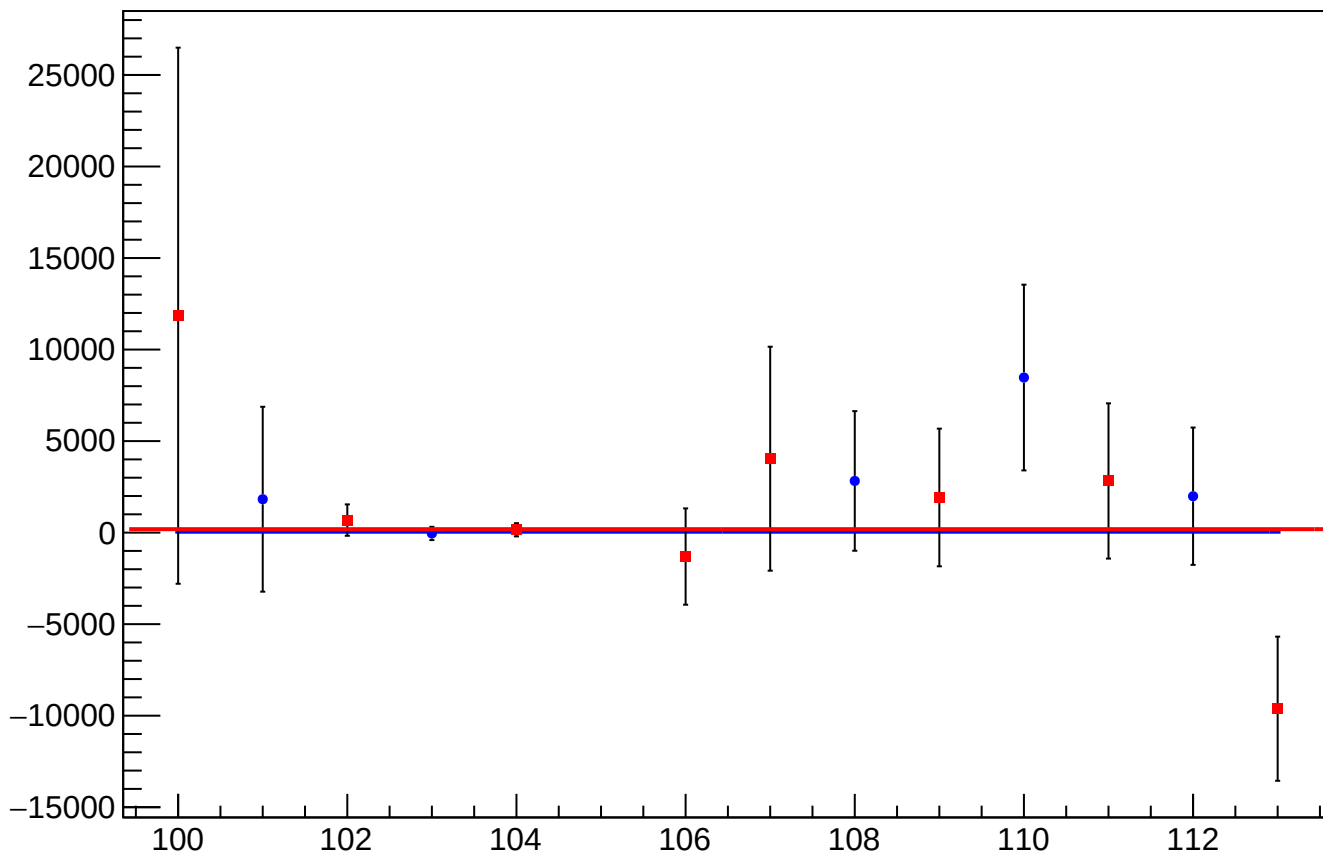
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1216.090 $\pm$ 0.378  $\chi^2$ /NDF: 684631.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 49.955+/-357.188  $\chi^2/\text{NDF}$ : 3.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 188.262+/-325.799  $\chi^2/\text{NDF}$ : 8.5/7

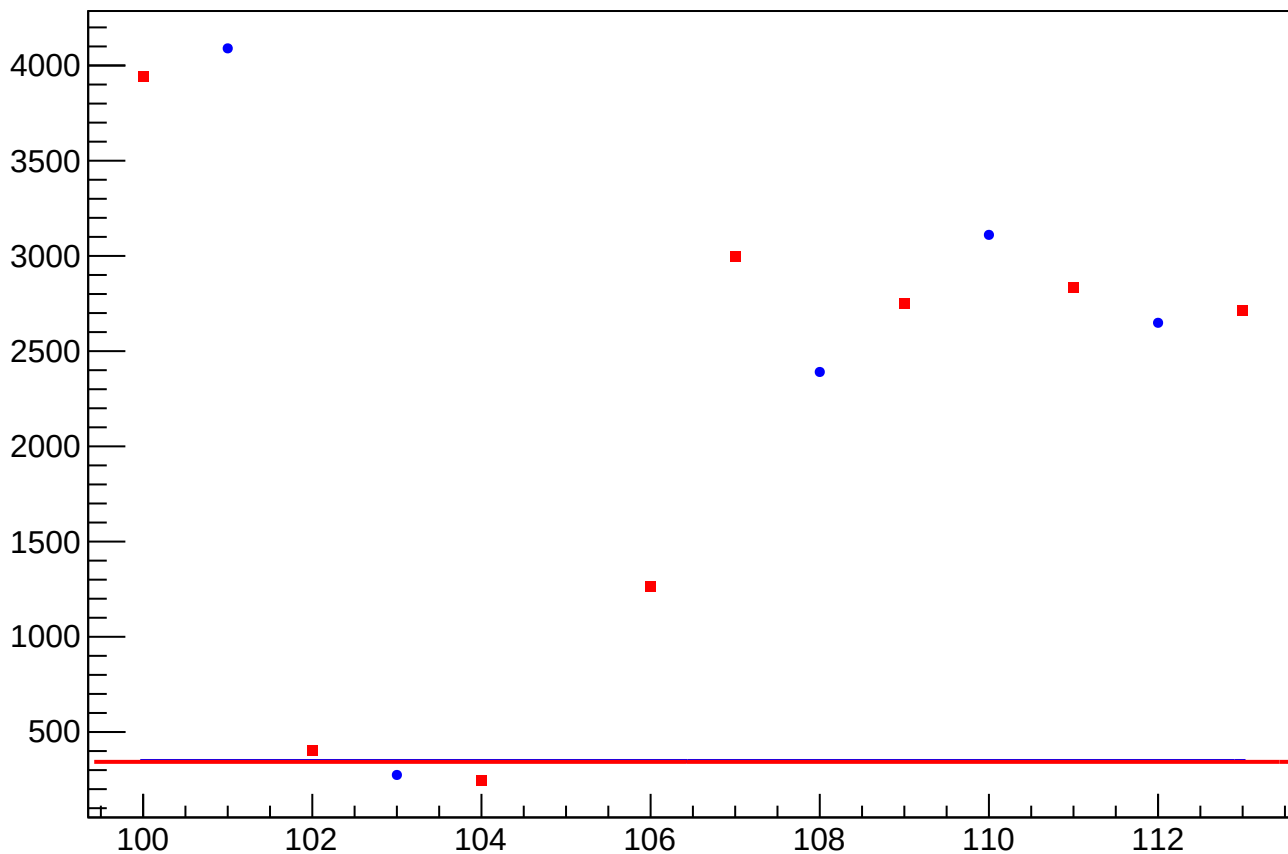
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 125.451+/-240.708  $\chi^2/\text{NDF}$ : 12.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 347.812 $\pm$ 0.253  $\chi^2$ /NDF: 3100227.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 343.297 $\pm$ 0.230  $\chi^2$ /NDF: 3138780.9/7

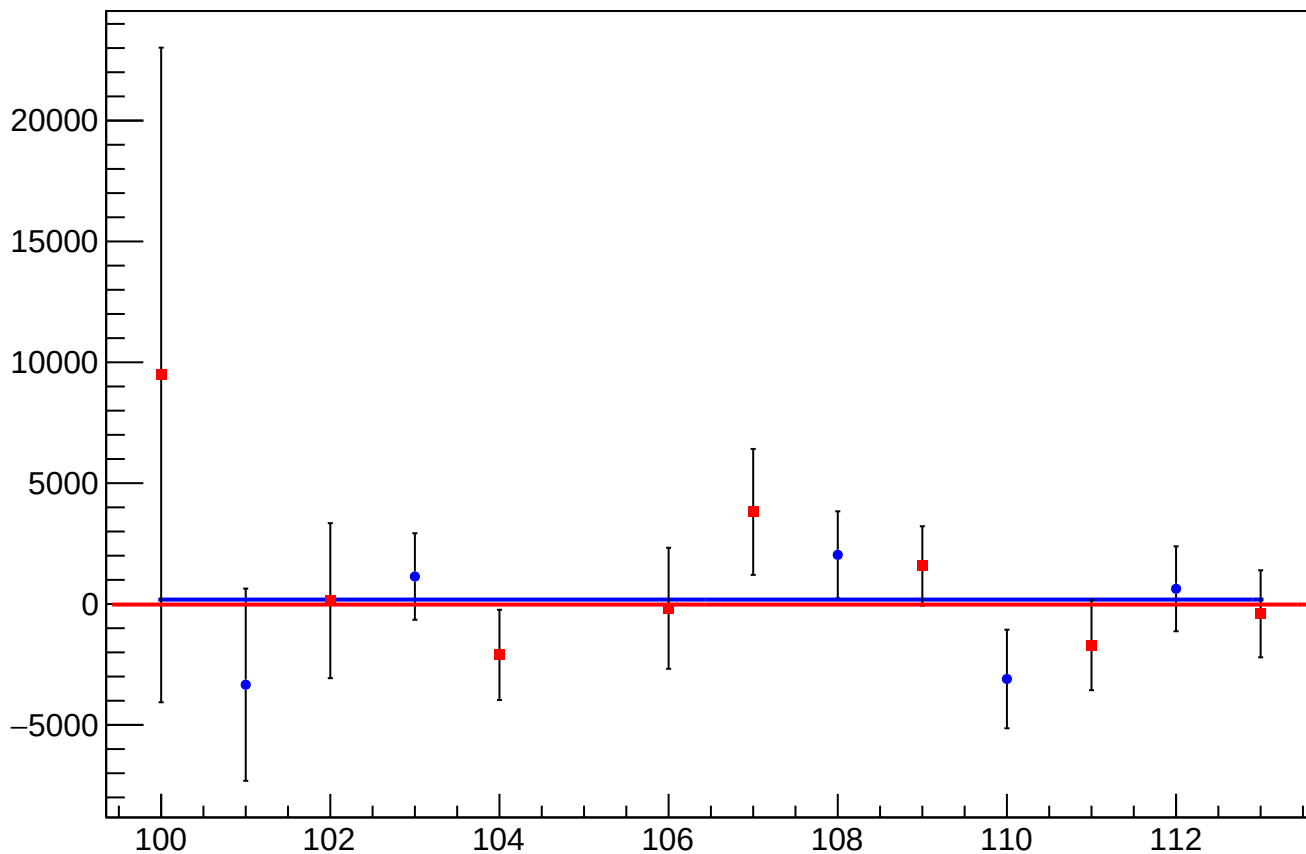
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 345.347 $\pm$ 0.170  $\chi^2$ /NDF: 6239183.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: 184.878+/-895.127  $\chi^2/\text{NDF}$ : 4.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -21.016+/-775.249  $\chi^2/\text{NDF}$ : 5.7/7

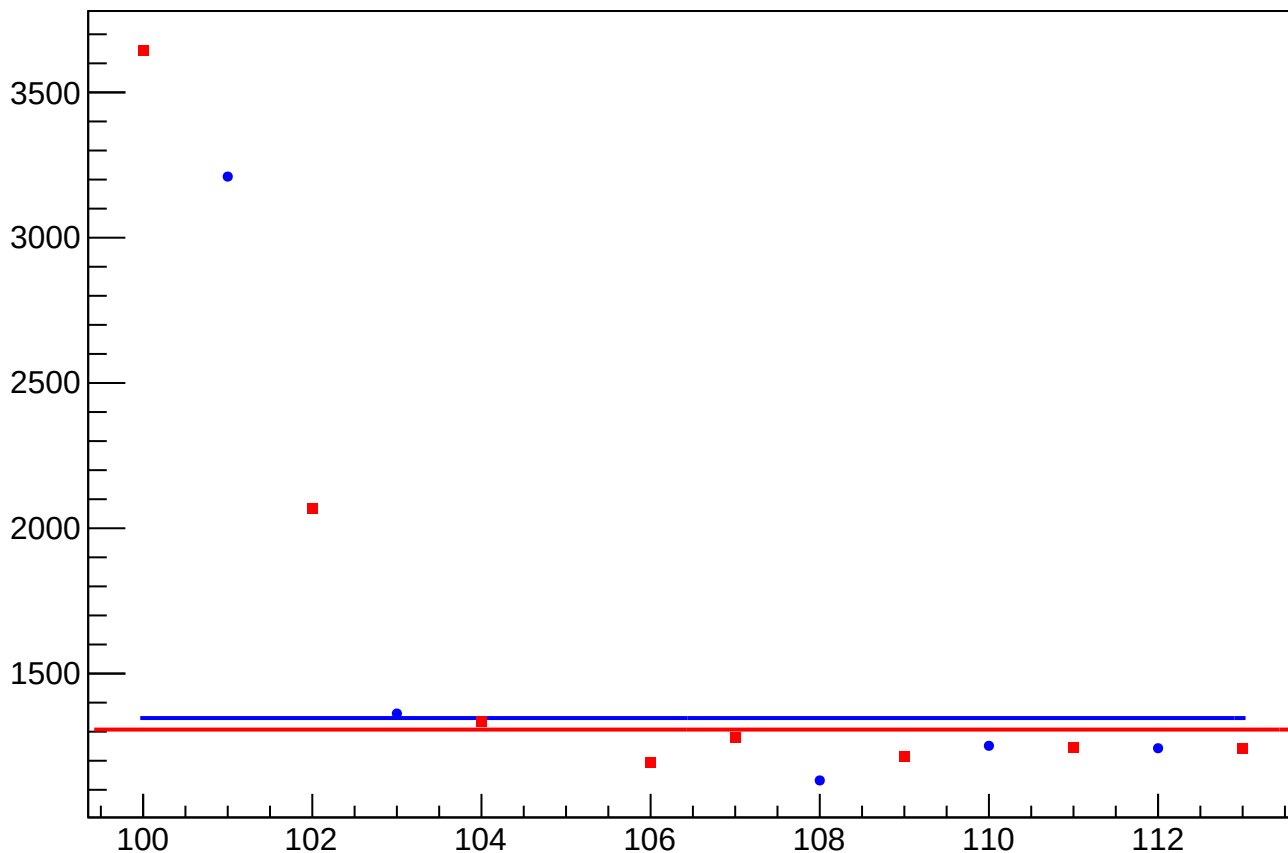
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.230+/-586.018  $\chi^2/\text{NDF}$ : 10.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1346.879+/-0.633  $\chi^2/\text{NDF}$ : 479254.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1307.194+/-0.547  $\chi^2/\text{NDF}$ : 187946.5/7

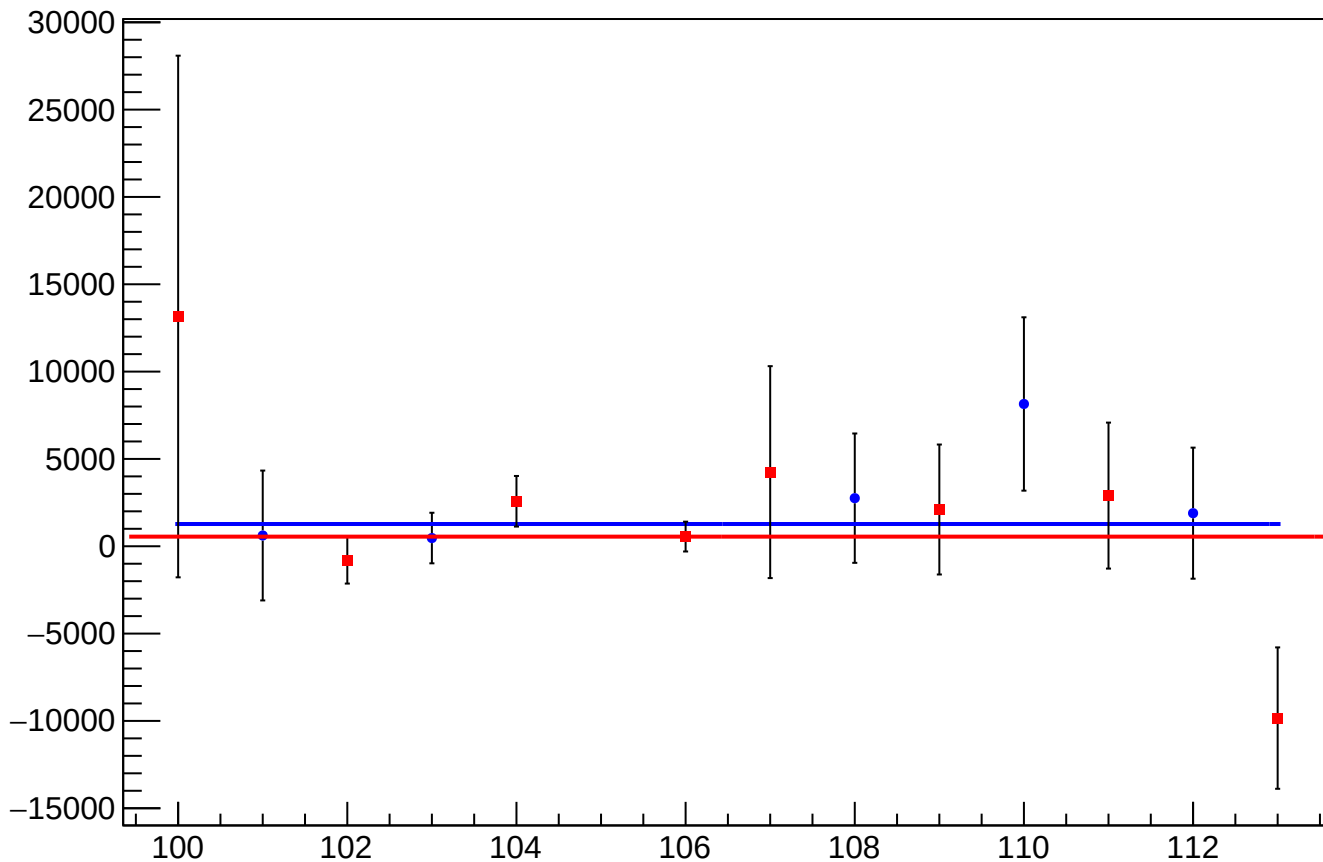
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1324.175+/-0.414  $\chi^2/\text{NDF}$ : 669450.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_dit\_correction\_mean vs Slug



Right In: 1273.859+/-1167.098  $\chi^2/\text{NDF}$ : 2.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 550.803+/-617.672  $\chi^2/\text{NDF}$ : 11.1/7

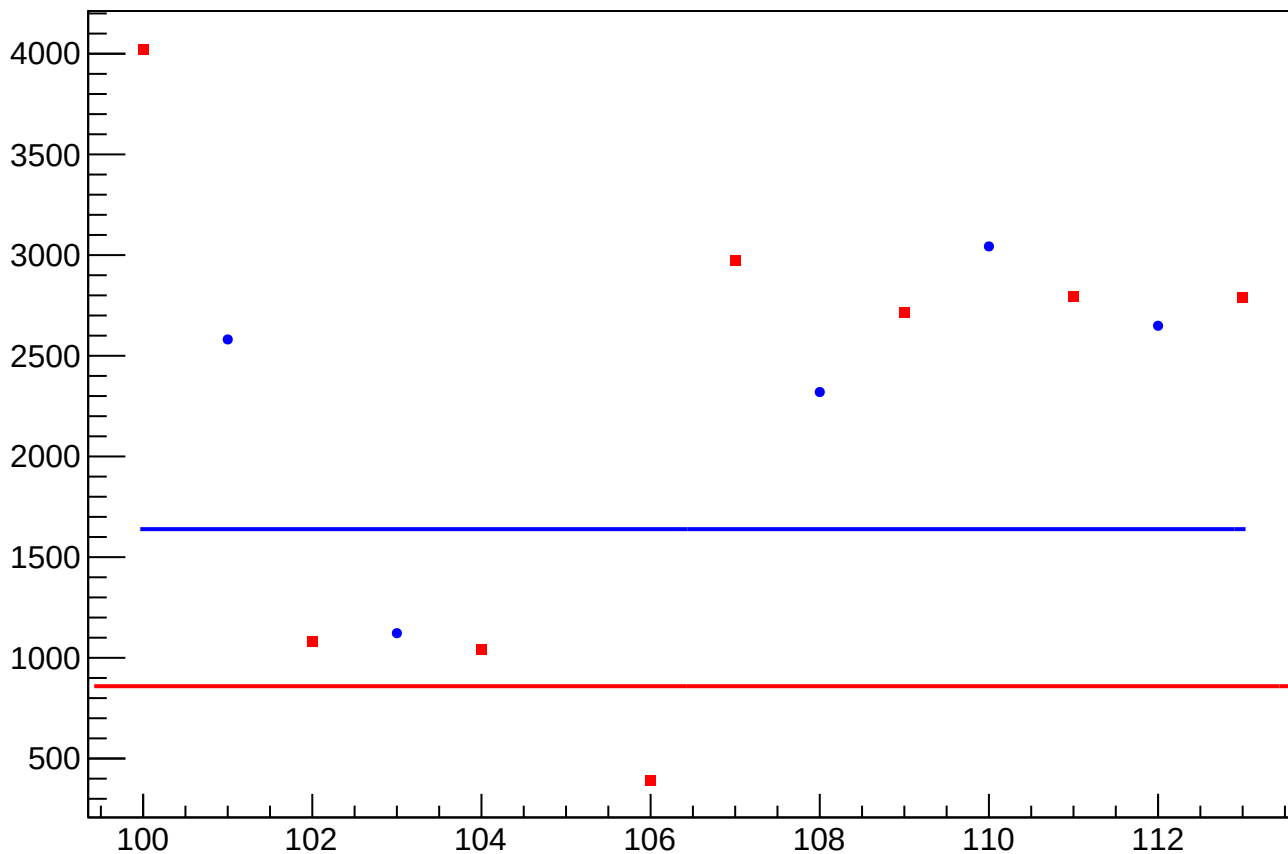
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 709.012+/-545.930  $\chi^2/\text{NDF}$ : 13.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_dit\_correction\_rms vs Slug



Right In: 1639.119+/-0.825  $\chi^2/\text{NDF}$ : 755772.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 859.121+/-0.437  $\chi^2/\text{NDF}$ : 2403434.4/7

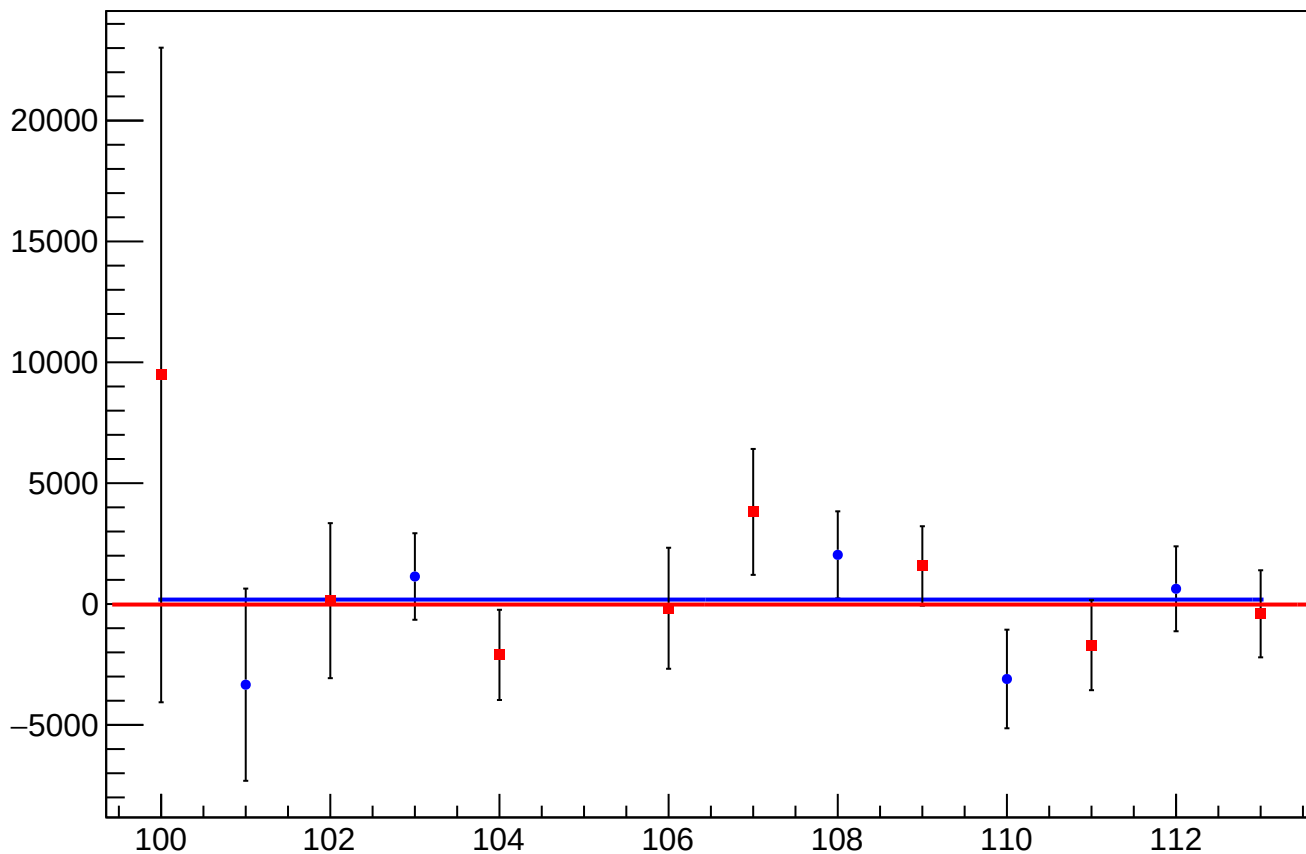
All: 1029.790+/-0.386  $\chi^2/\text{NDF}$ : 3857055.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: 184.874+/-895.127  $\chi^2/\text{NDF}$ : 4.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -21.010+/-775.249  $\chi^2/\text{NDF}$ : 5.7/7

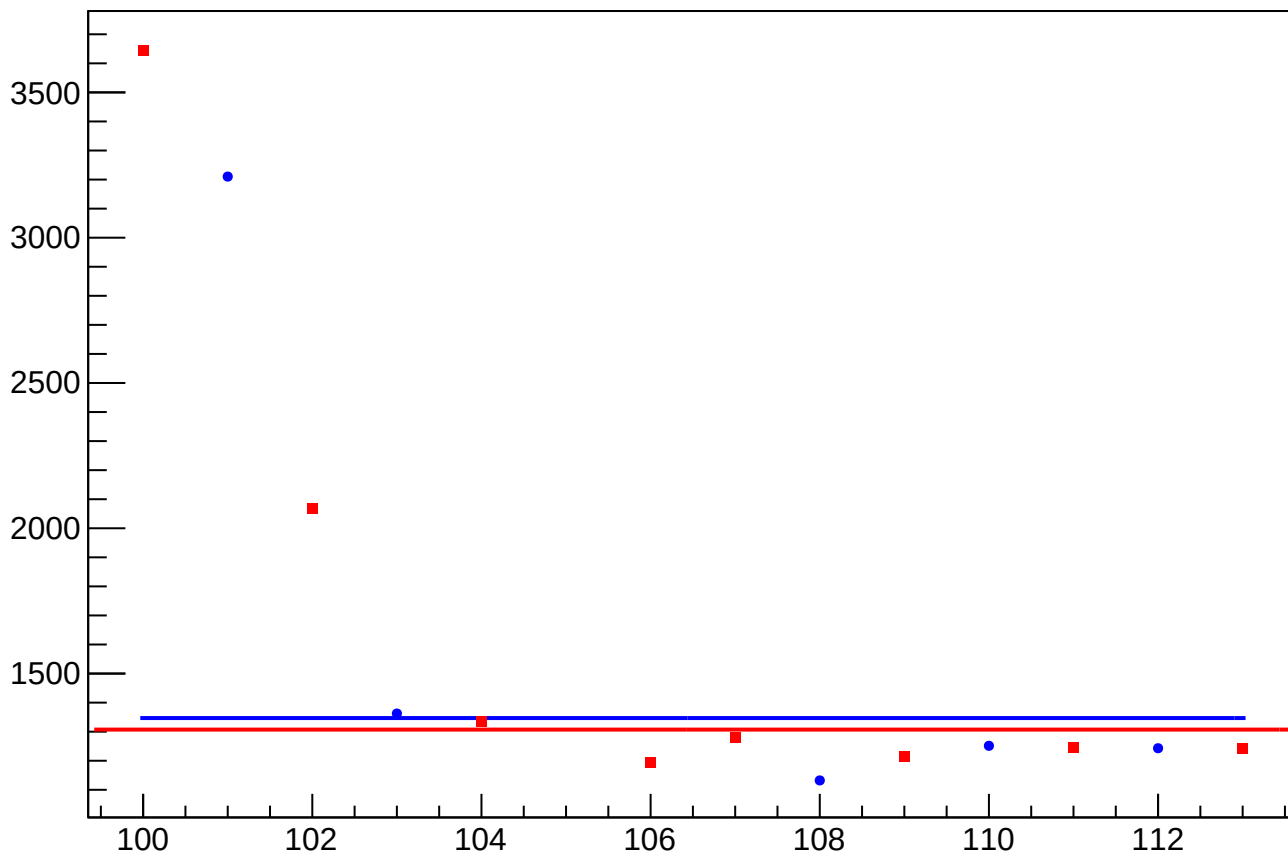
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.232+/-586.018  $\chi^2/\text{NDF}$ : 10.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1346.879+/-0.633  $\chi^2/\text{NDF}$ : 479254.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1307.194+/-0.547  $\chi^2/\text{NDF}$ : 187946.3/7

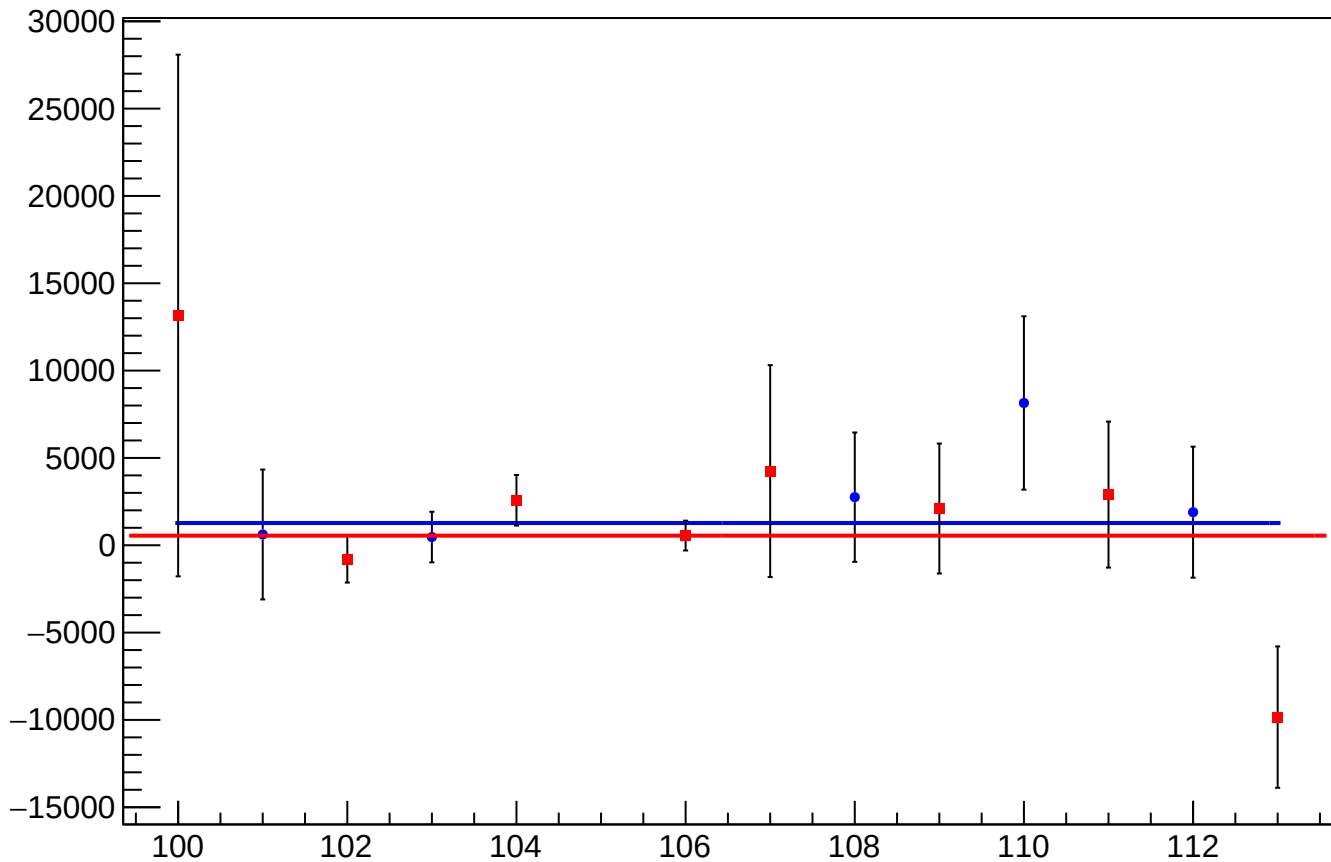
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1324.175+/-0.414  $\chi^2/\text{NDF}$ : 669449.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 1273.859+/-1167.097  $\chi^2/\text{NDF}$ : 2.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 550.801+/-617.664  $\chi^2/\text{NDF}$ : 11.1/7

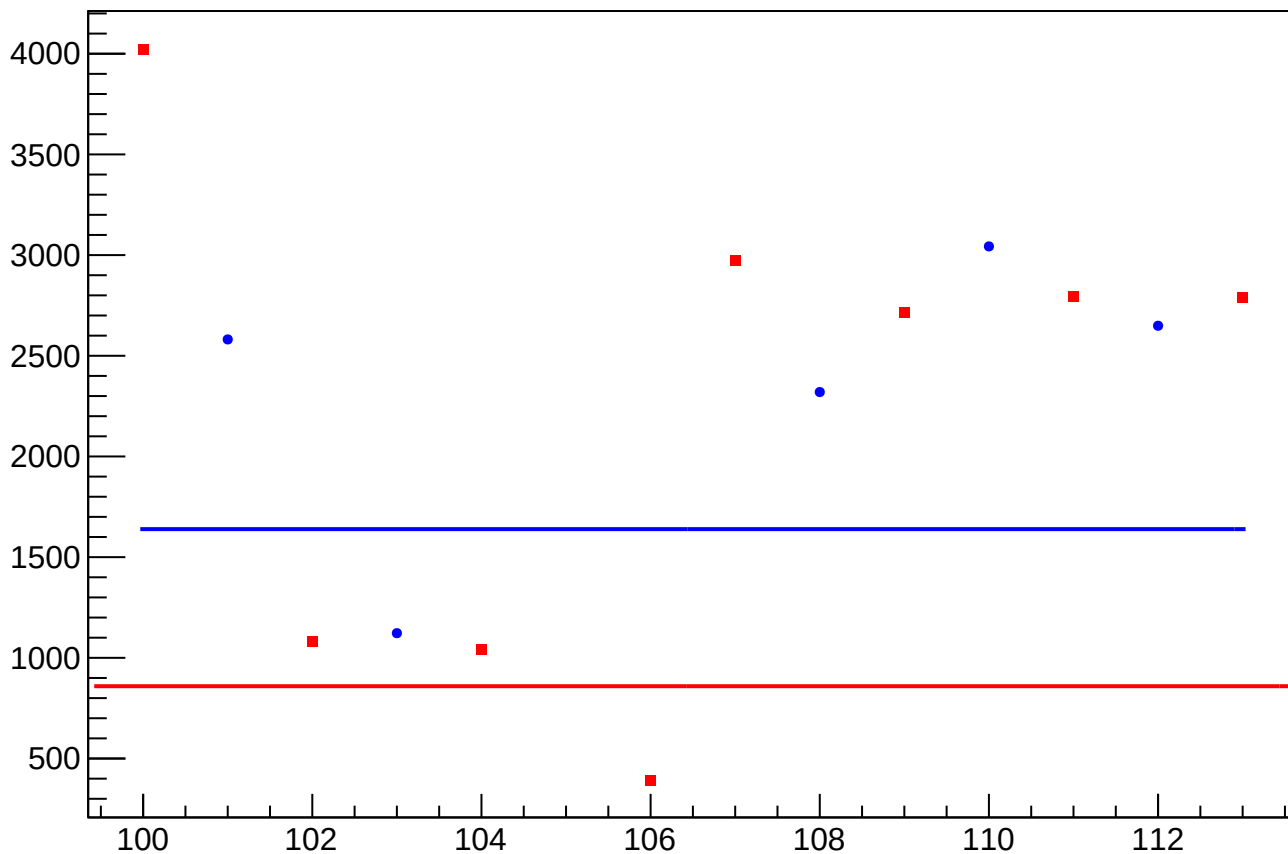
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 709.007+/-545.924  $\chi^2/\text{NDF}$ : 13.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1639.118+/-0.825  $\chi^2/\text{NDF}$ : 755771.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 859.102+/-0.437  $\chi^2/\text{NDF}$ : 2403494.6/7

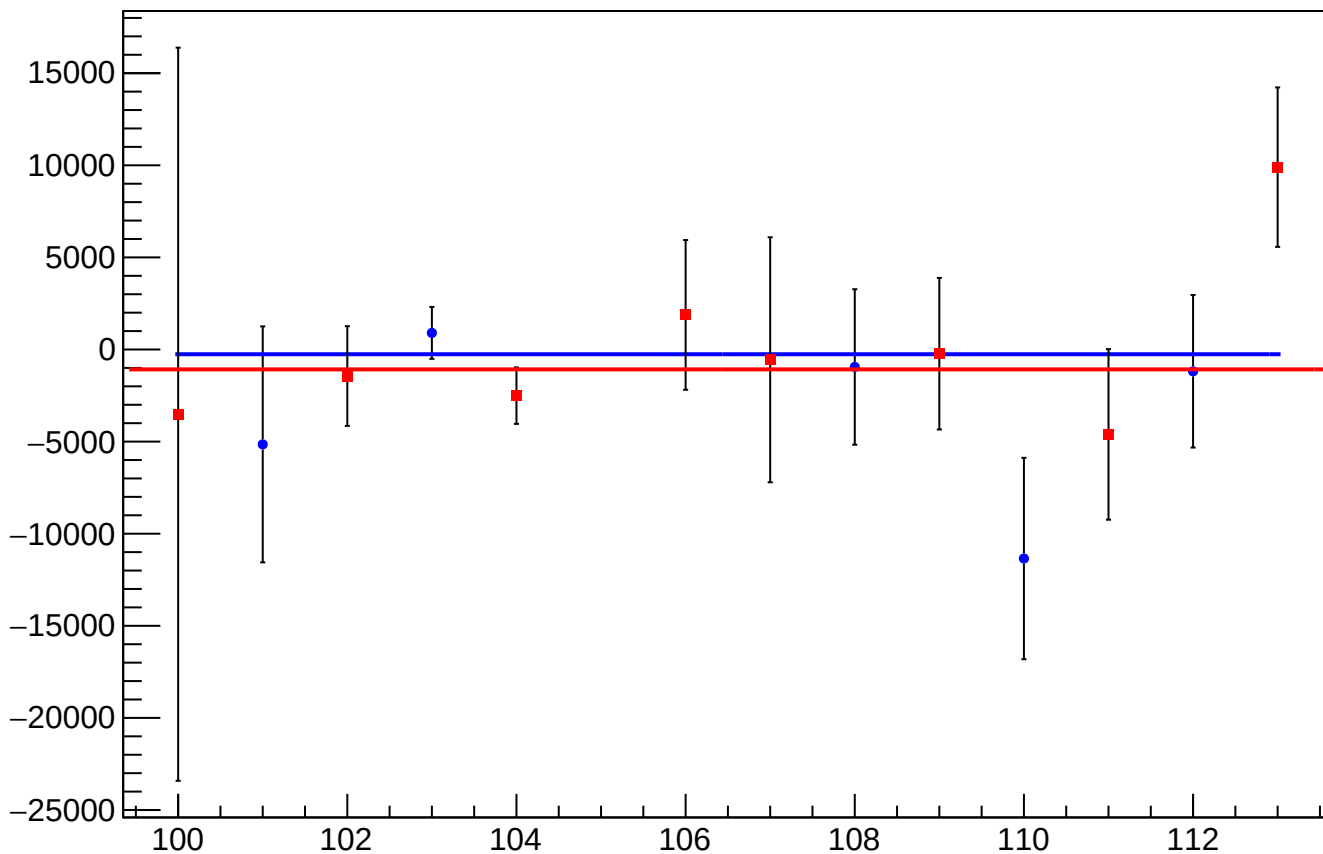
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1029.771+/-0.386  $\chi^2/\text{NDF}$ : 3857152.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: -256.781+/-1215.995  $\chi^2/\text{NDF}$ : 5.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1078.205+/-1113.492  $\chi^2/\text{NDF}$ : 8.5/7

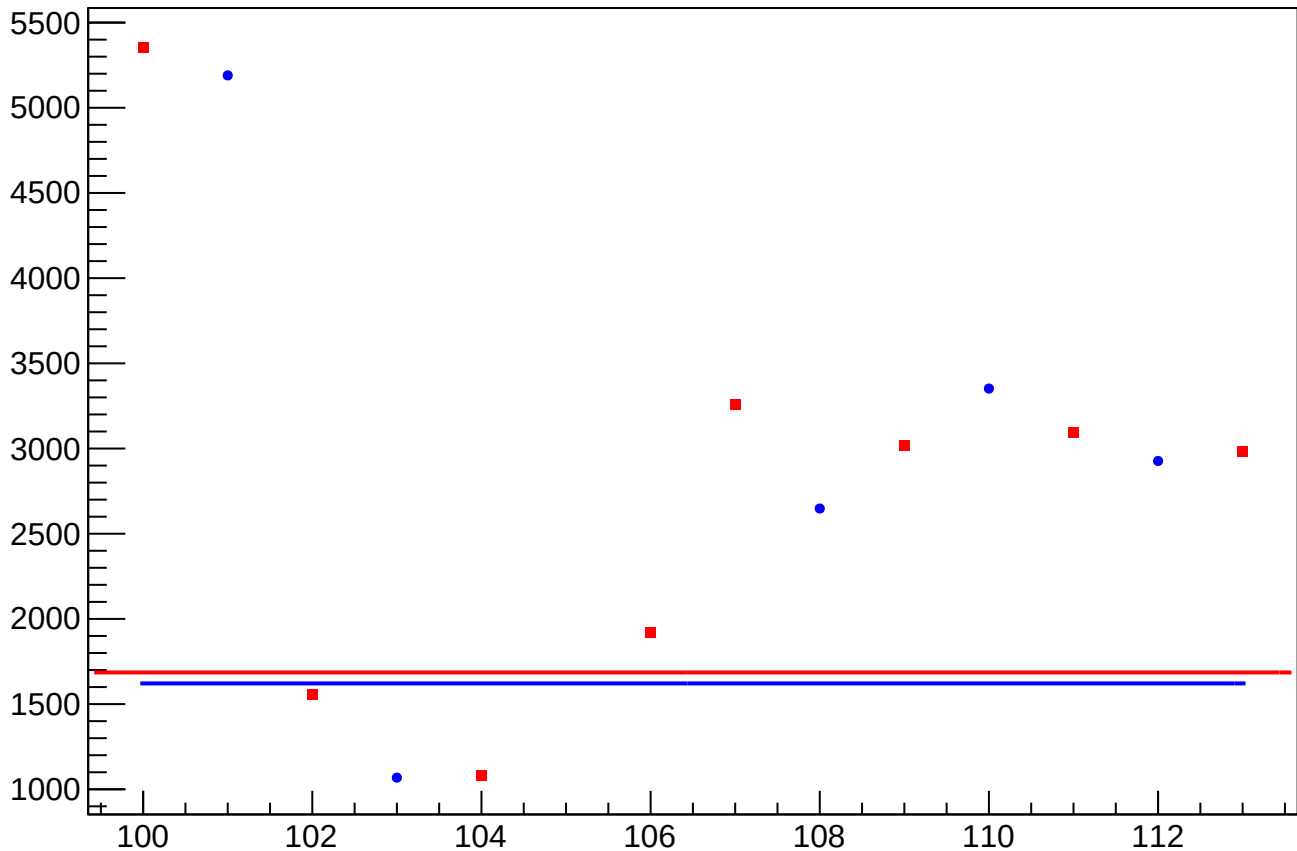
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -703.568+/-821.209  $\chi^2/\text{NDF}$ : 14.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1621.406+/-0.860  $\chi^2/\text{NDF}$ : 1446674.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1685.703+/-0.784  $\chi^2/\text{NDF}$ : 1076482.1/7

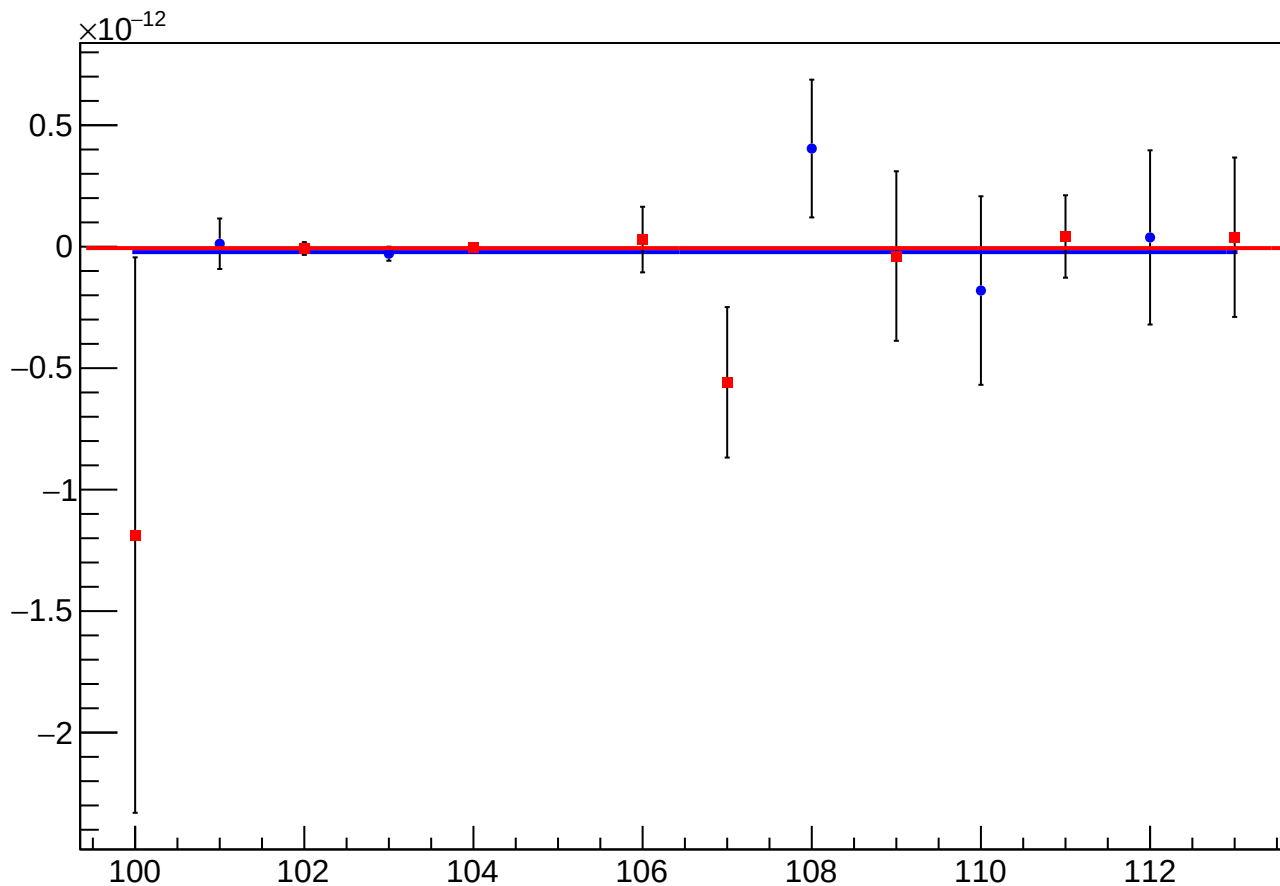
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1656.496+/-0.580  $\chi^2/\text{NDF}$ : 2526208.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.4/7

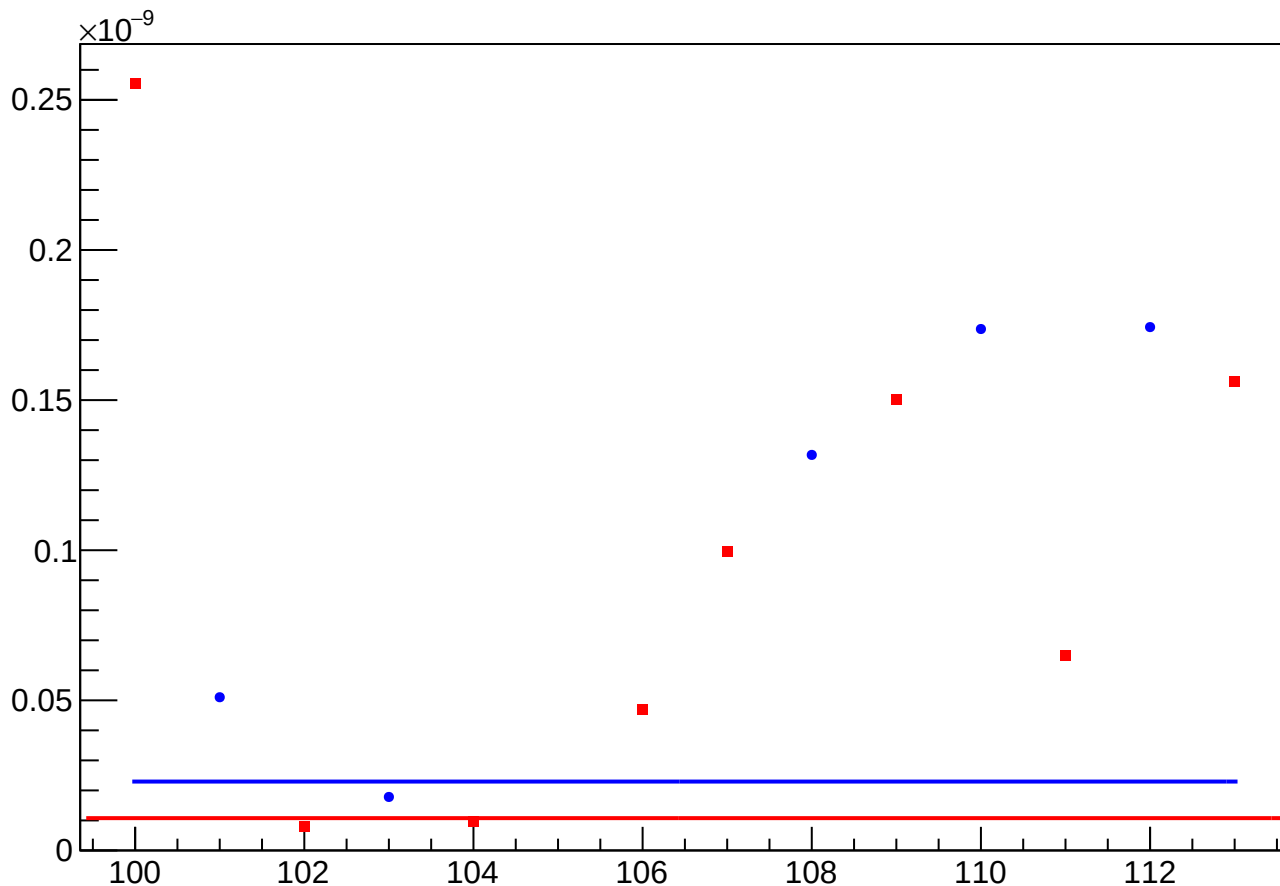
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1161957.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1345706.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

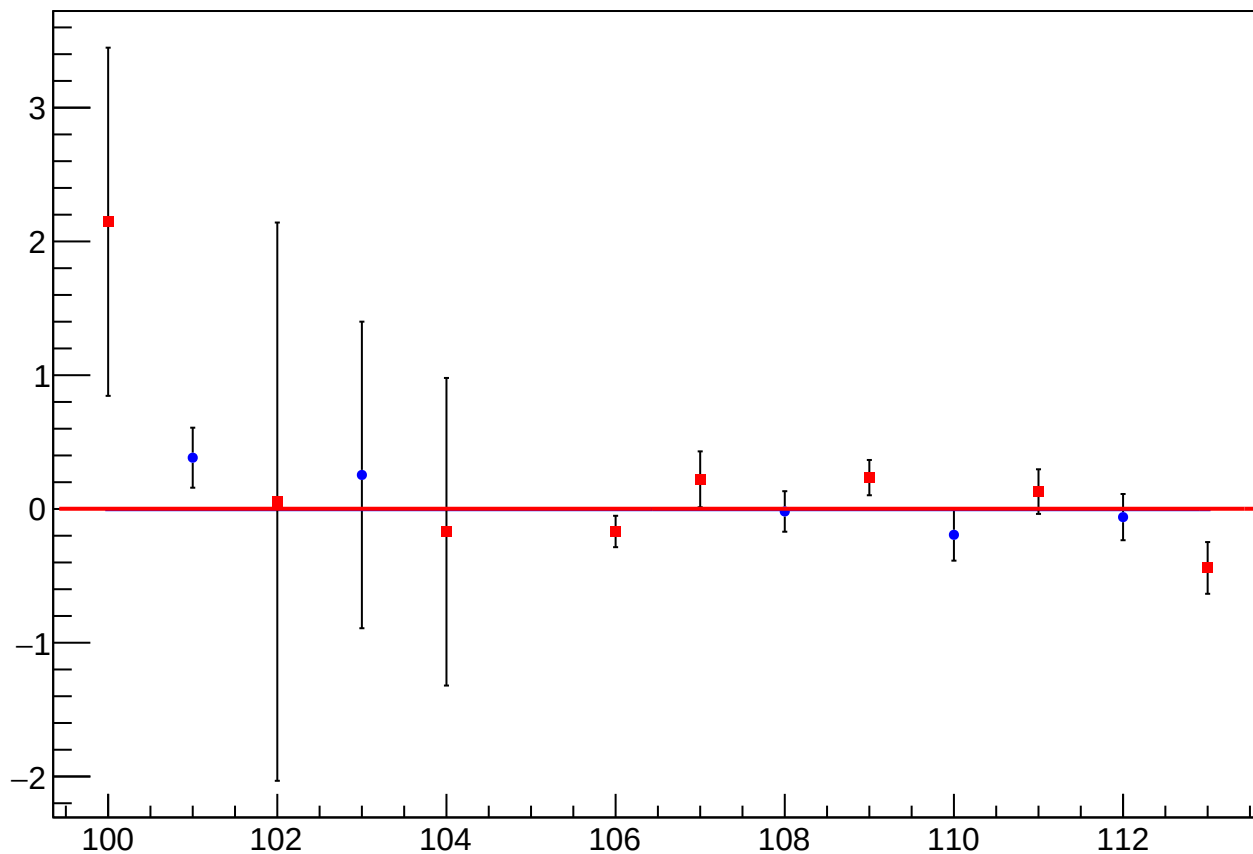
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2808048.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_avg\_atlr\_avg\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.090  $\chi^2$ /NDF: 4.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.002 $\pm$ 0.068  $\chi^2$ /NDF: 14.9/7

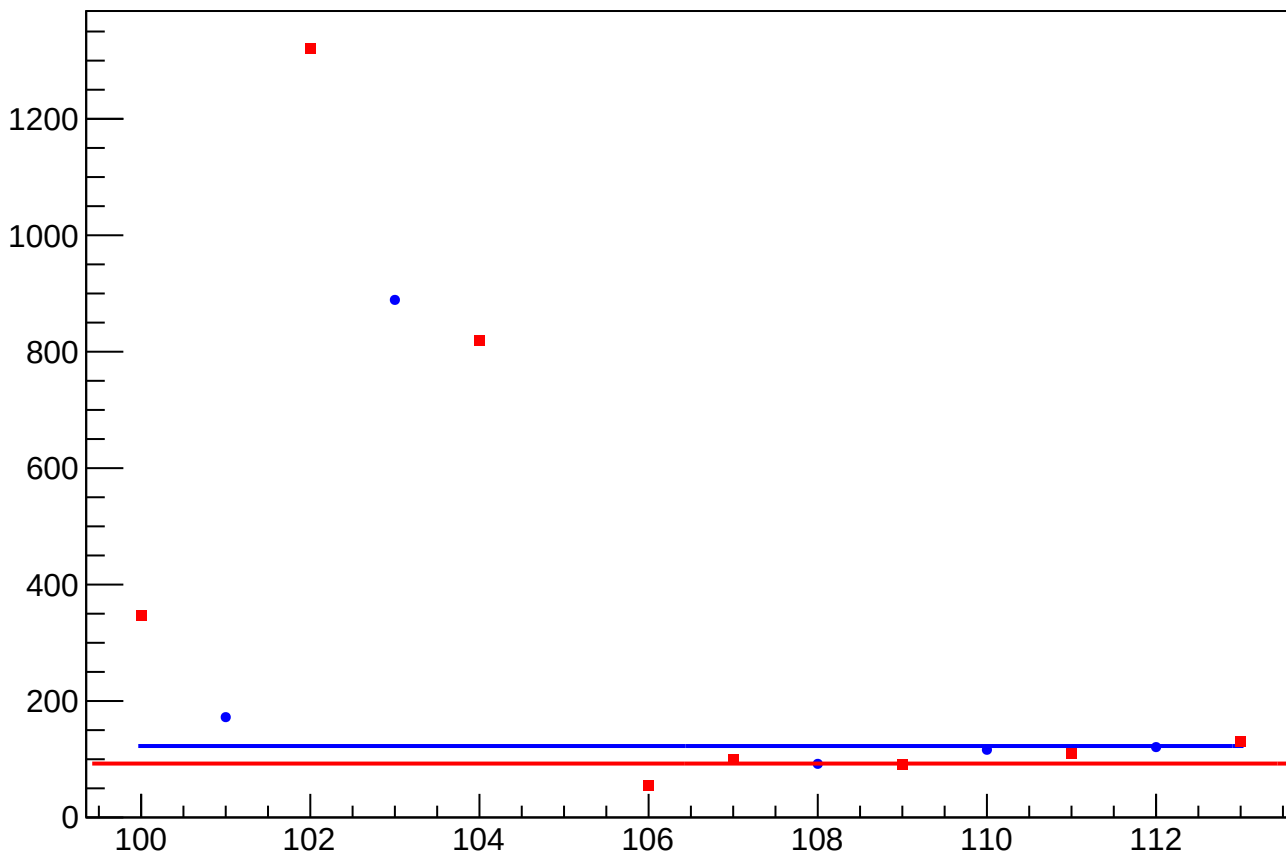
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.054  $\chi^2$ /NDF: 19.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 122.703+/-0.063  $\chi^2/\text{NDF}$ : 1076252.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 92.564+/-0.048  $\chi^2/\text{NDF}$ : 1874251.1/7

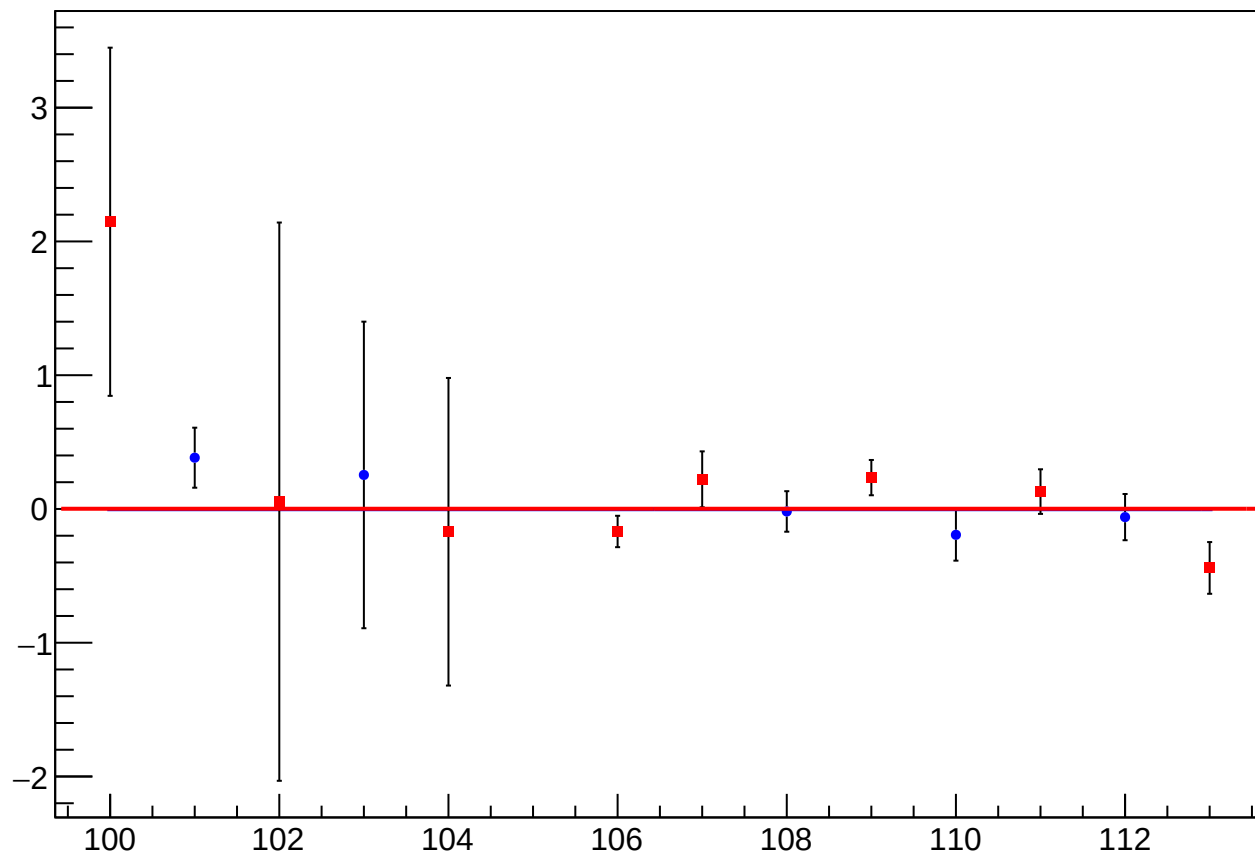
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 103.538+/-0.038  $\chi^2/\text{NDF}$ : 3094302.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.090  $\chi^2$ /NDF: 4.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002 $\pm$ 0.068  $\chi^2$ /NDF: 14.9/7

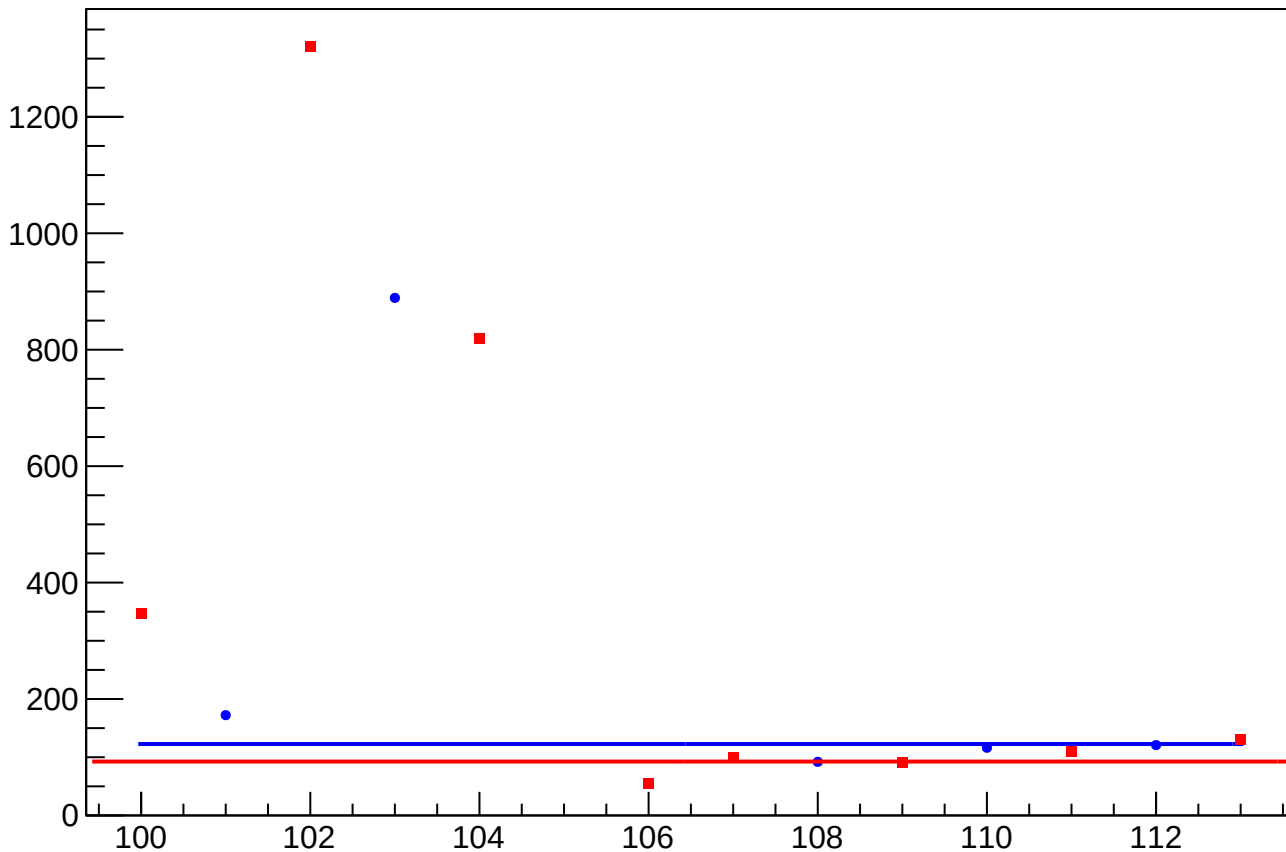
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.054  $\chi^2$ /NDF: 19.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 122.703+/-0.063  $\chi^2/\text{NDF}$ : 1076252.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 92.564+/-0.048  $\chi^2/\text{NDF}$ : 1874251.1/7

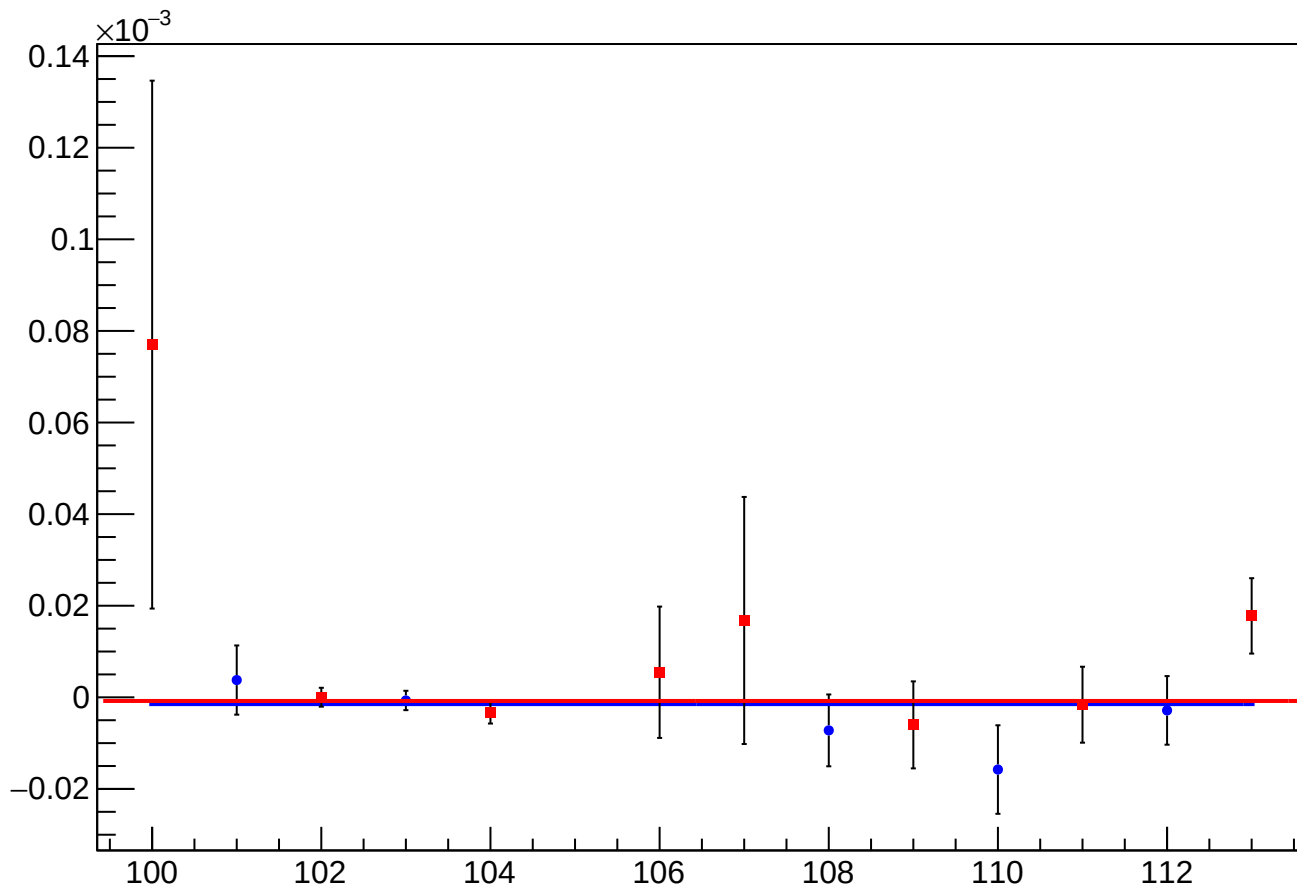
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 103.538+/-0.038  $\chi^2/\text{NDF}$ : 3094302.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.2/7

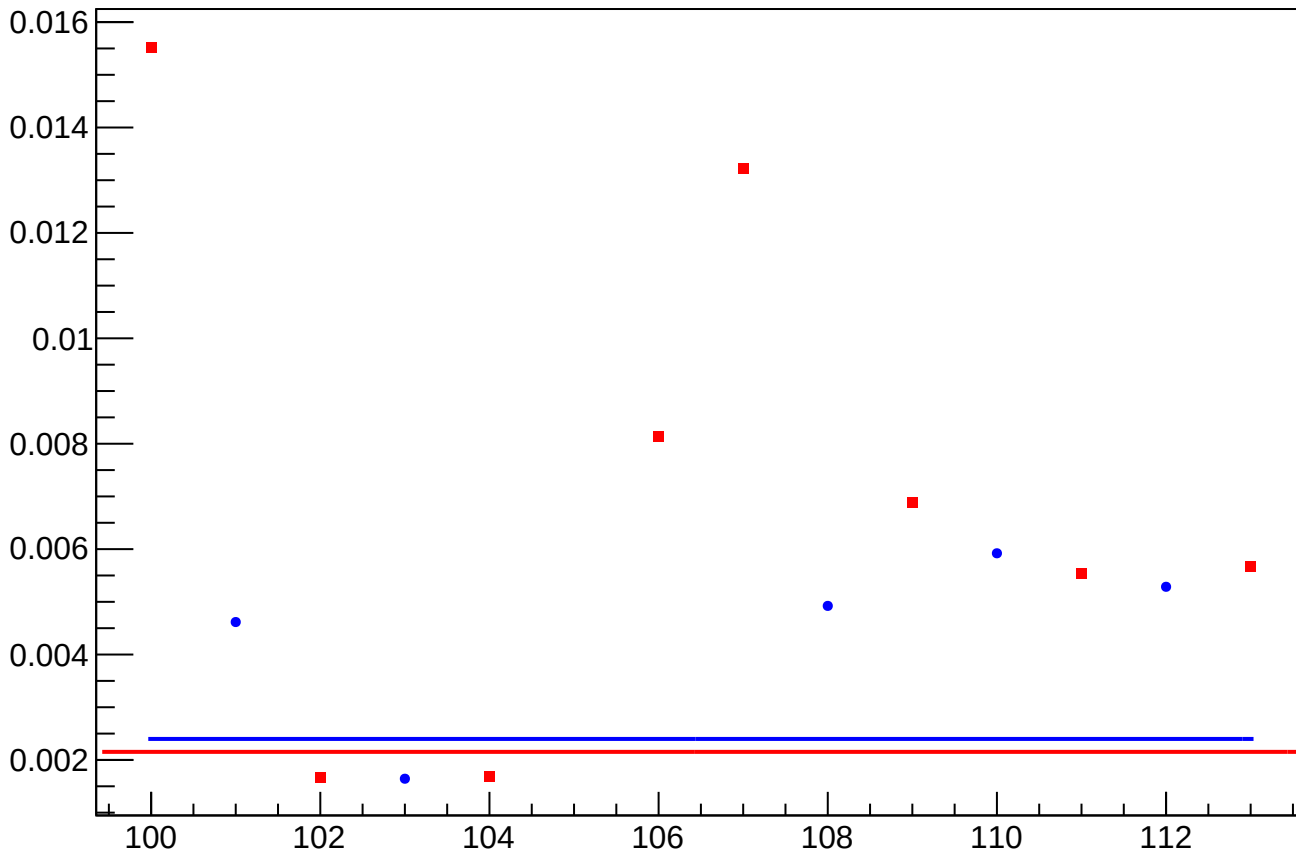
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1197579.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2181370.3/7

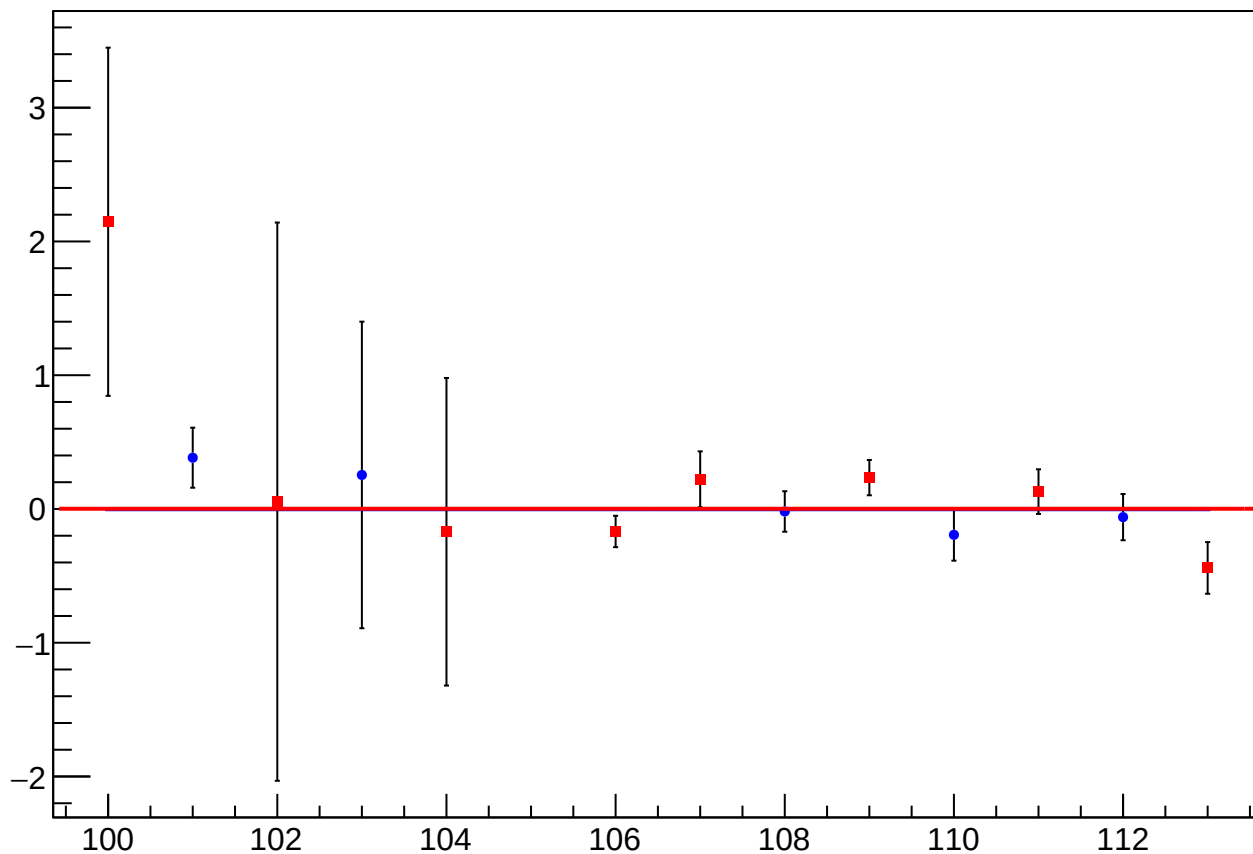
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3400275.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.090  $\chi^2$ /NDF: 4.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002 $\pm$ 0.068  $\chi^2$ /NDF: 14.9/7

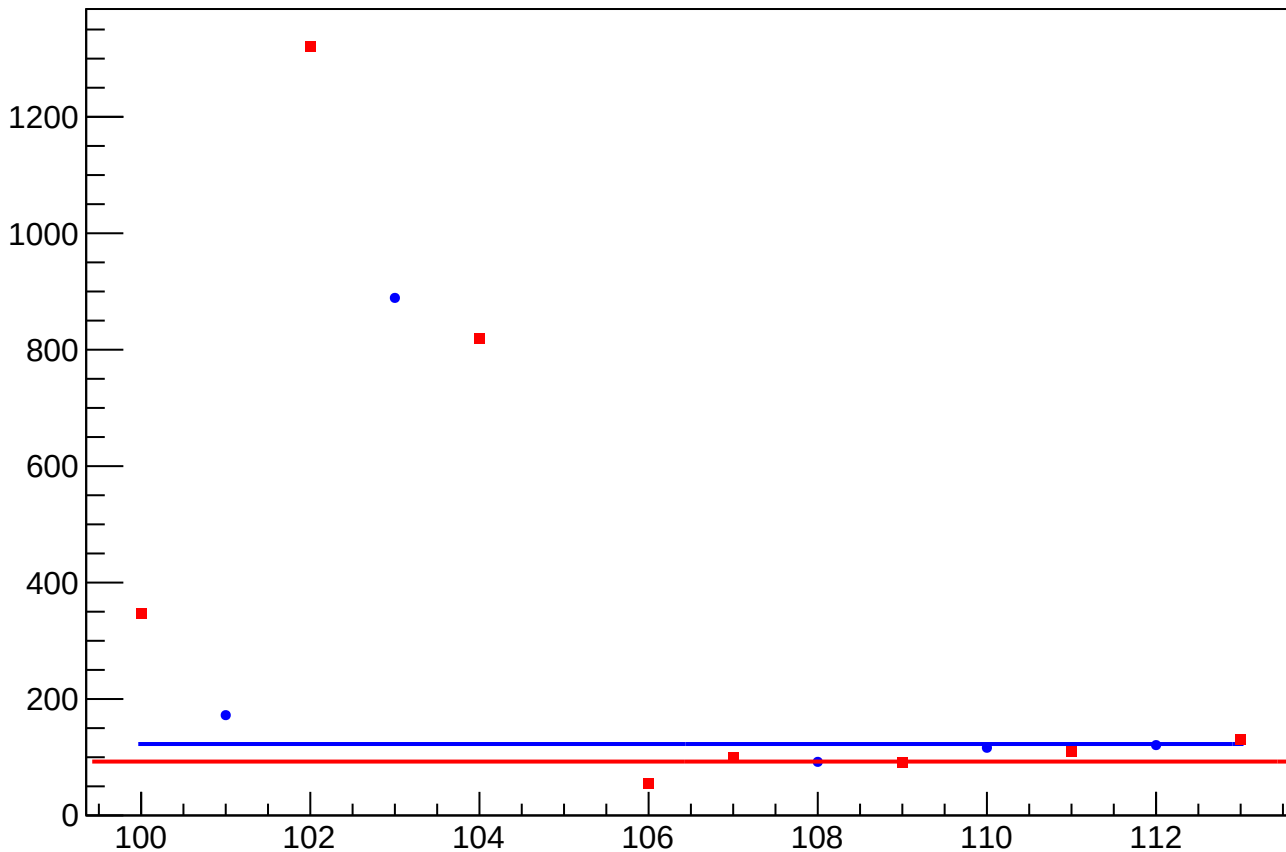
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.054  $\chi^2$ /NDF: 19.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 122.704 $\pm$ 0.063  $\chi^2$ /NDF: 1076234.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 92.561 $\pm$ 0.048  $\chi^2$ /NDF: 1874318.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

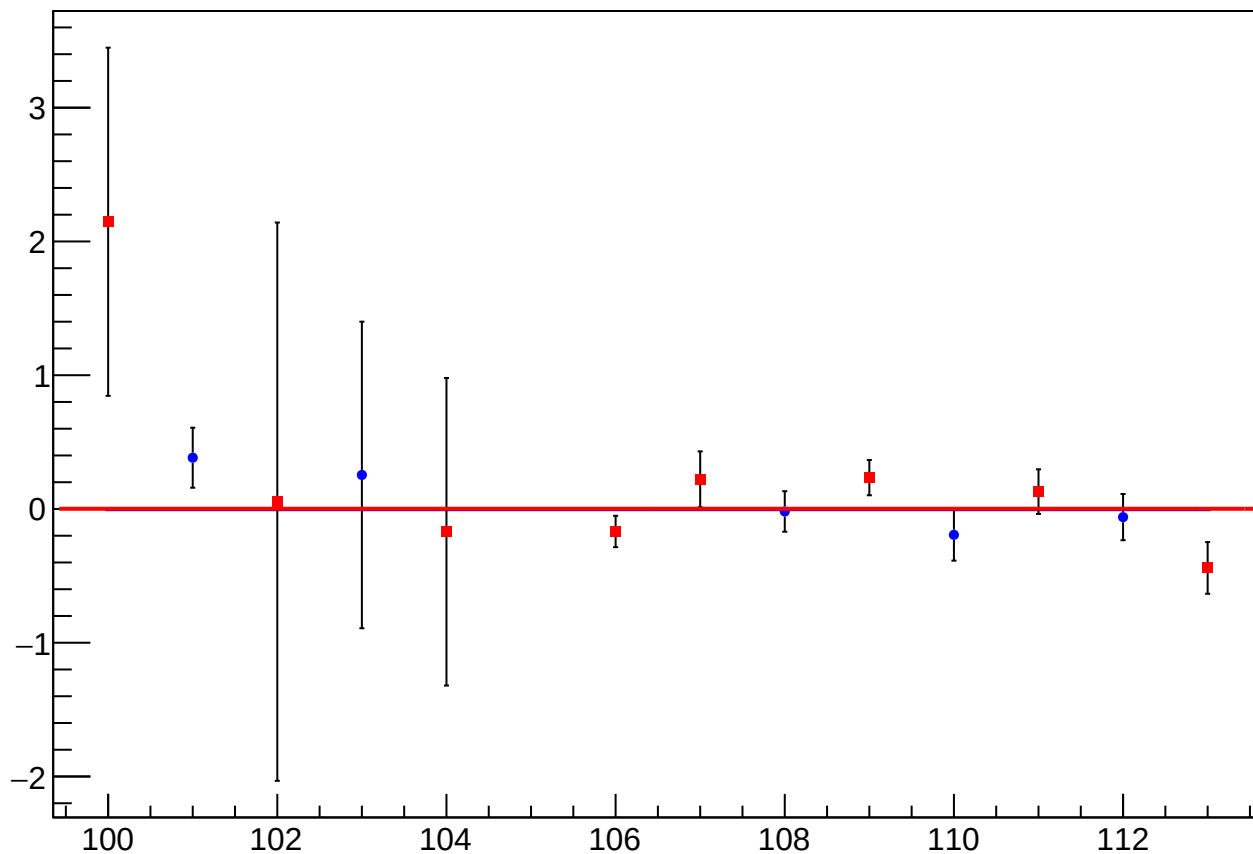
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 103.537 $\pm$ 0.038  $\chi^2$ /NDF: 3094394.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.090  $\chi^2$ /NDF: 4.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002 $\pm$ 0.068  $\chi^2$ /NDF: 14.9/7

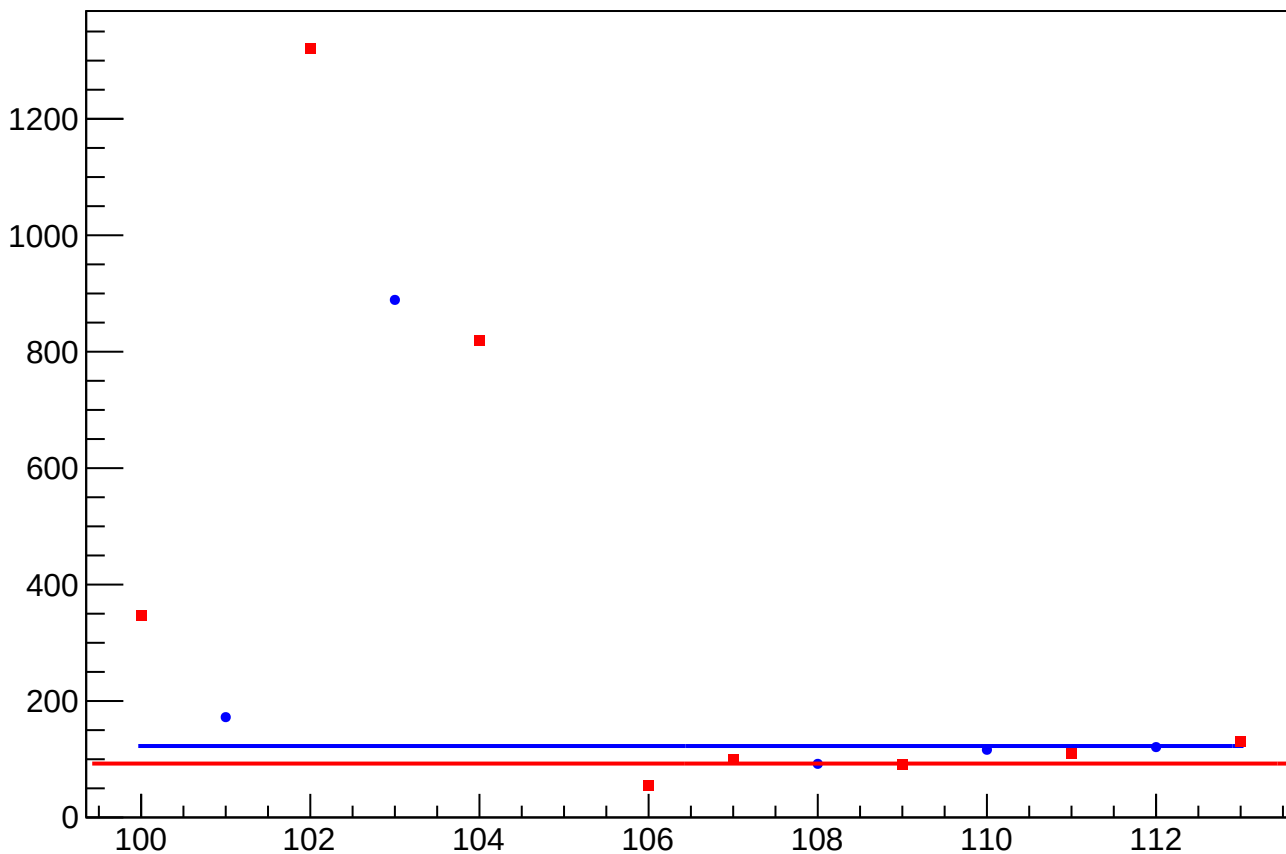
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.054  $\chi^2$ /NDF: 19.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 122.704+/-0.063  $\chi^2/\text{NDF}$ : 1076234.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 92.561+/-0.048  $\chi^2/\text{NDF}$ : 1874318.5/7

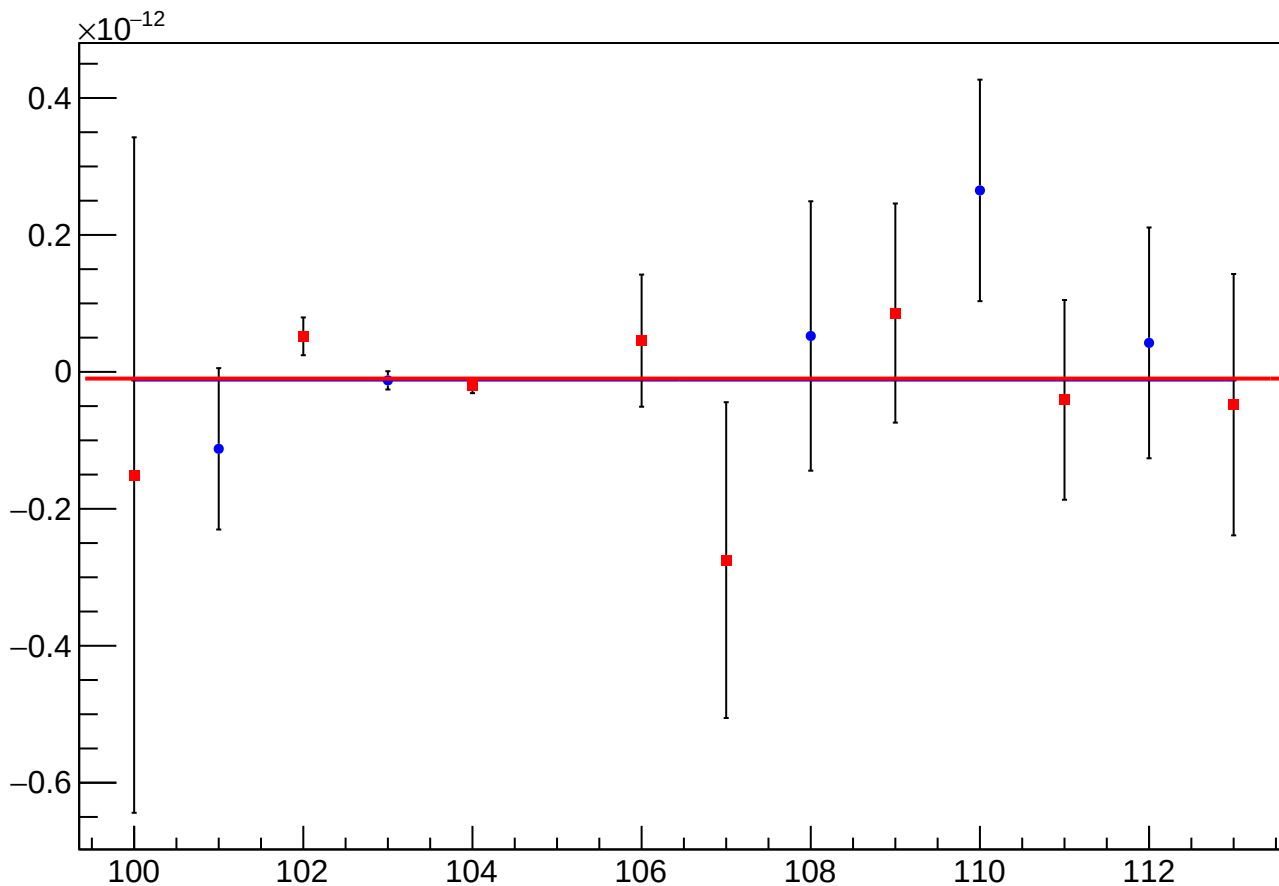
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 103.537+/-0.038  $\chi^2/\text{NDF}$ : 3094394.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.0/7

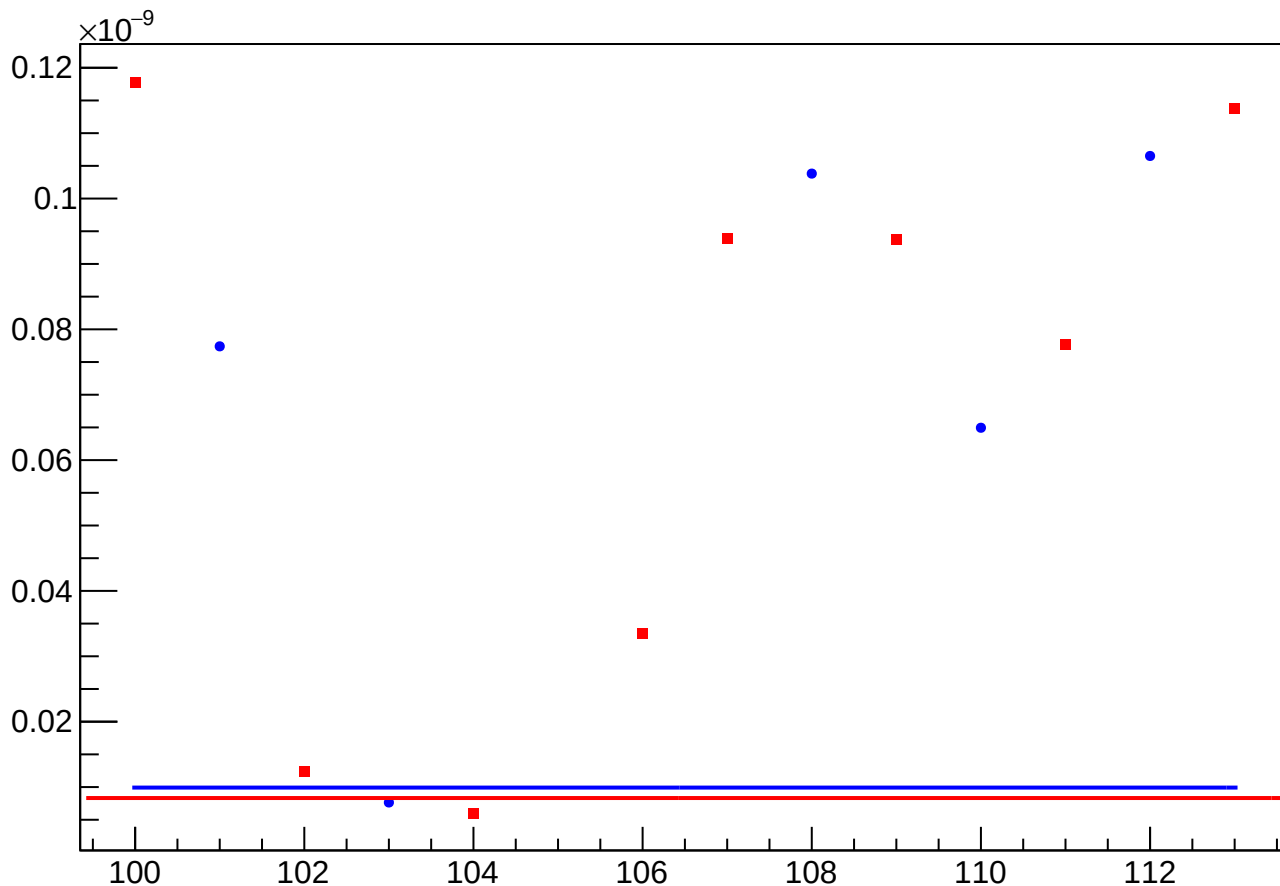
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2058269.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2277775.9/7

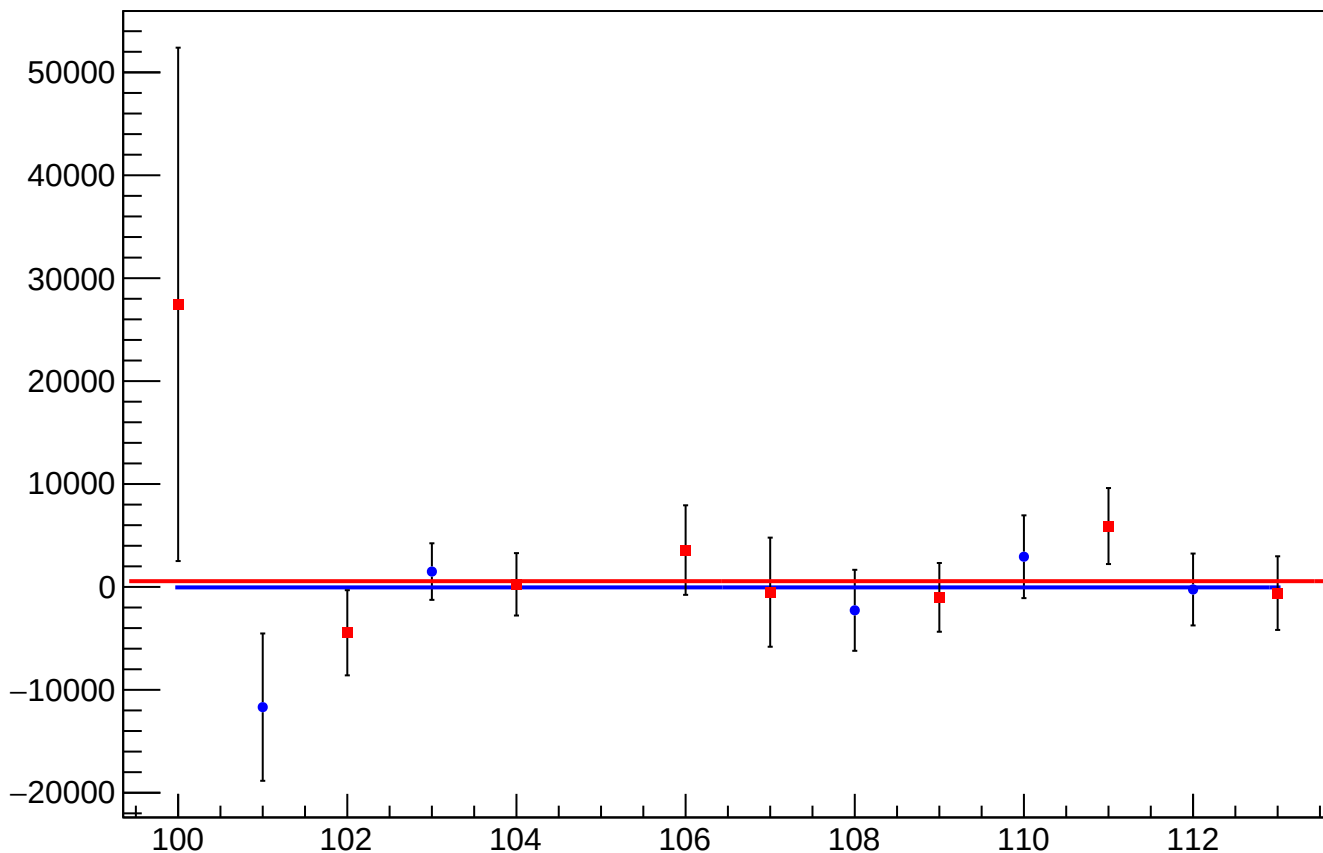
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4354519.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: -44.563+/-1665.910  $\chi^2/\text{NDF}$ : 3.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 559.414+/-1416.723  $\chi^2/\text{NDF}$ : 5.6/7

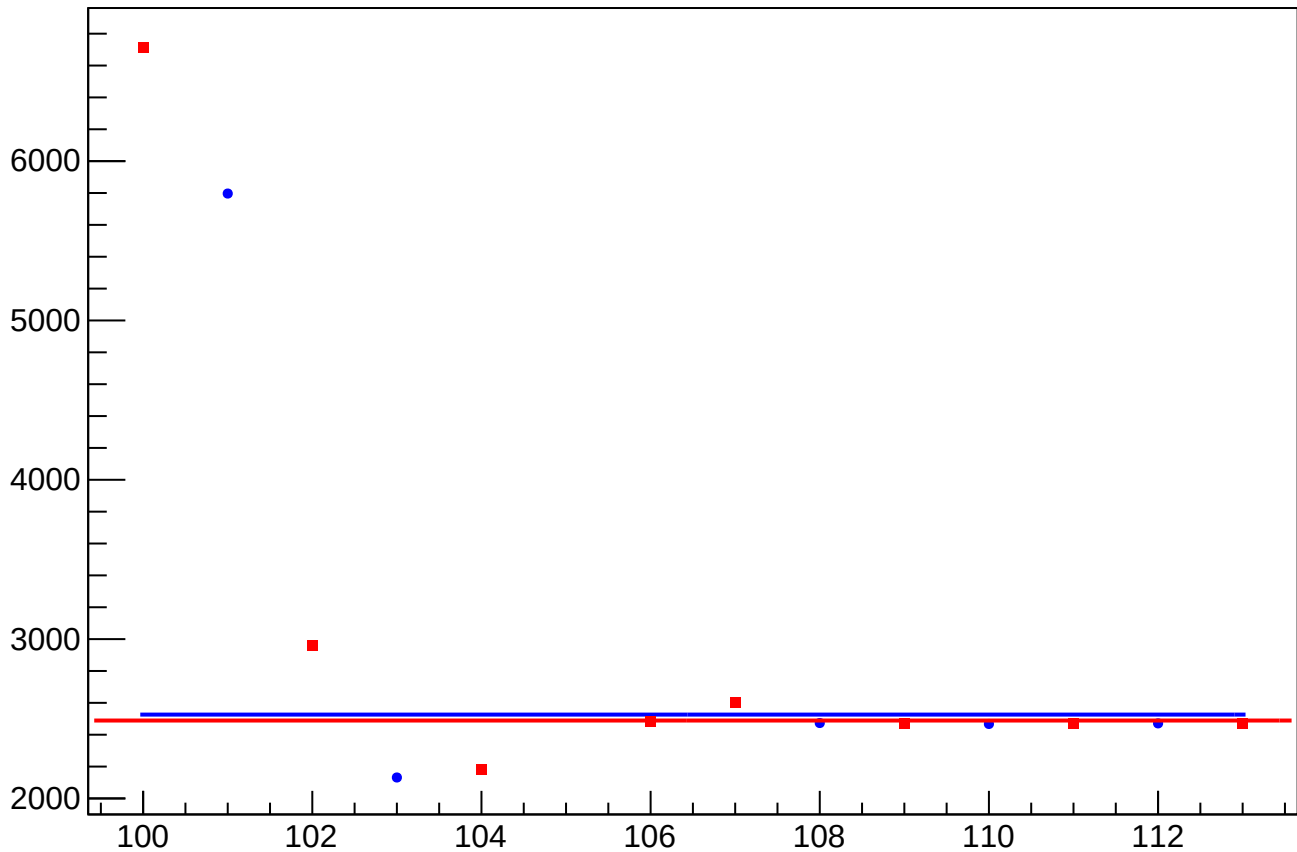
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 305.931+/-1079.233  $\chi^2/\text{NDF}$ : 9.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2526.254+/-1.178  $\chi^2/\text{NDF}$ : 460039.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2489.016+/-1.002  $\chi^2/\text{NDF}$ : 104713.0/7

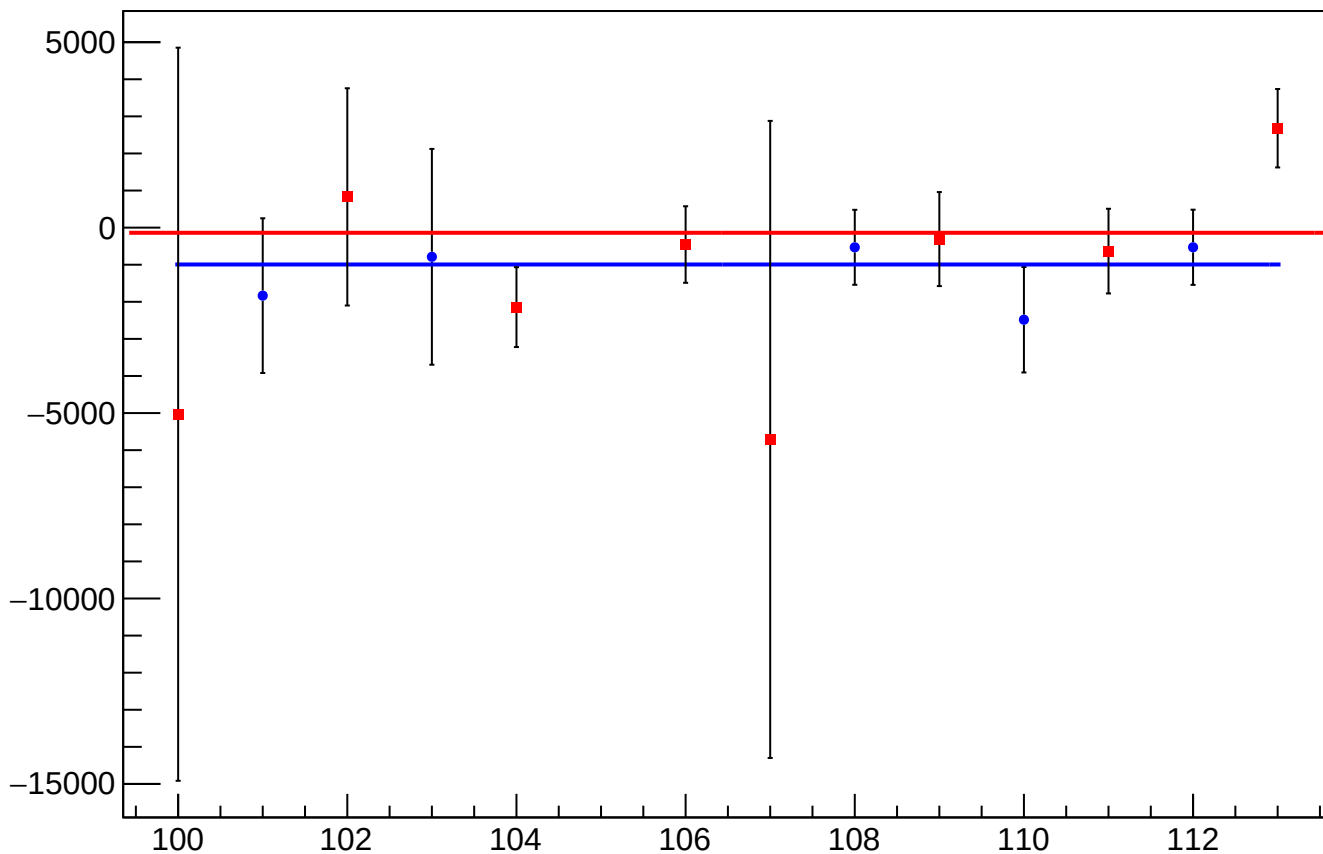
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2504.644+/-0.763  $\chi^2/\text{NDF}$ : 565332.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_reg\_correction\_mean vs Slug



Right In: -993.901+/-598.122  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -139.097+/-486.458  $\chi^2/\text{NDF}$ : 11.6/7

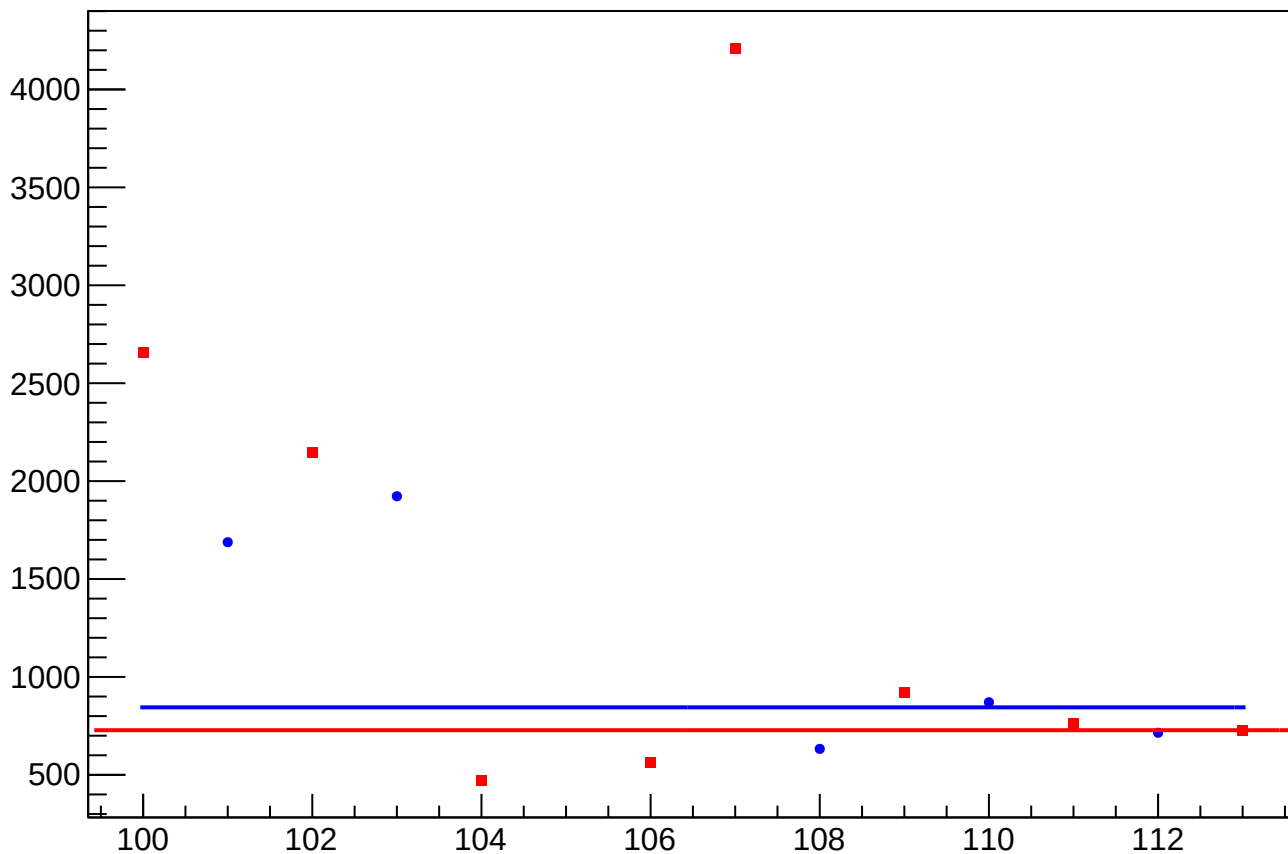
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -479.415+/-377.397  $\chi^2/\text{NDF}$ : 14.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_reg\_correction\_rms vs Slug



Right In: 844.770 $\pm$ 0.423  $\chi^2$ /NDF: 723060.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 727.983 $\pm$ 0.344  $\chi^2$ /NDF: 1088536.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

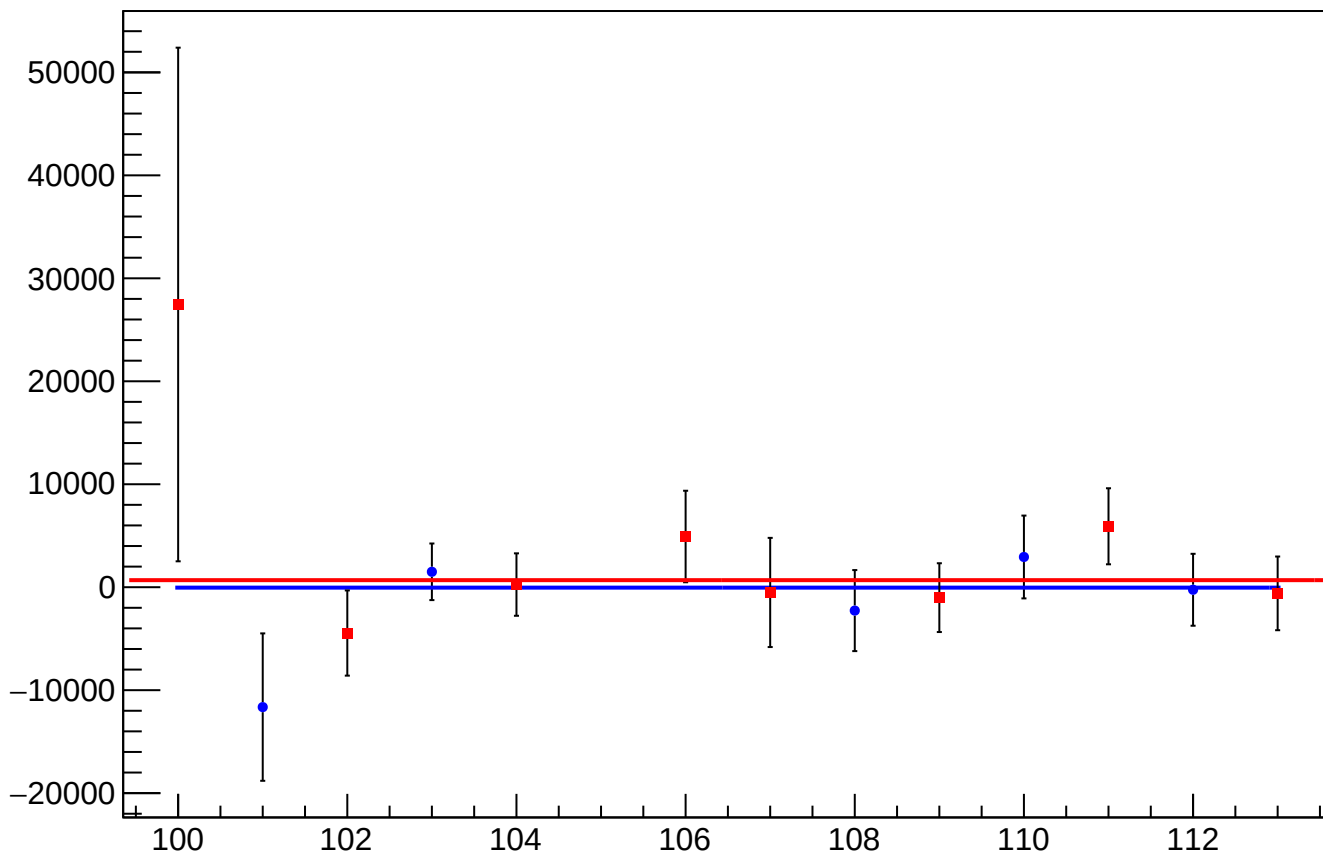
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 774.479 $\pm$ 0.267  $\chi^2$ /NDF: 1857489.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# cor\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: -41.071+/-1665.911  $\chi^2/\text{NDF}$ : 3.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 684.650+/-1419.850  $\chi^2/\text{NDF}$ : 6.1/7

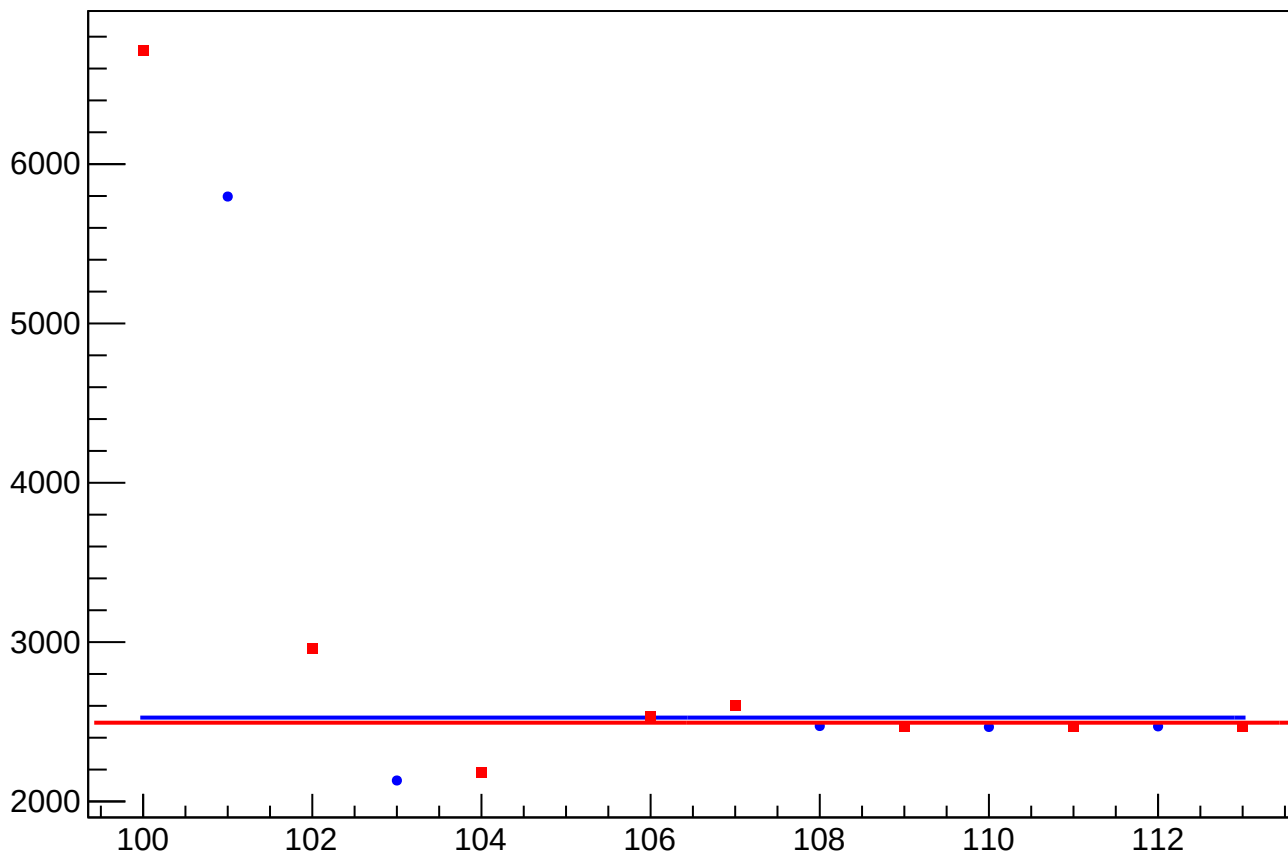
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 379.294+/-1080.614  $\chi^2/\text{NDF}$ : 10.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2526.254+/-1.178  $\chi^2/\text{NDF}$ : 460039.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2494.216+/-1.004  $\chi^2/\text{NDF}$ : 104893.0/7

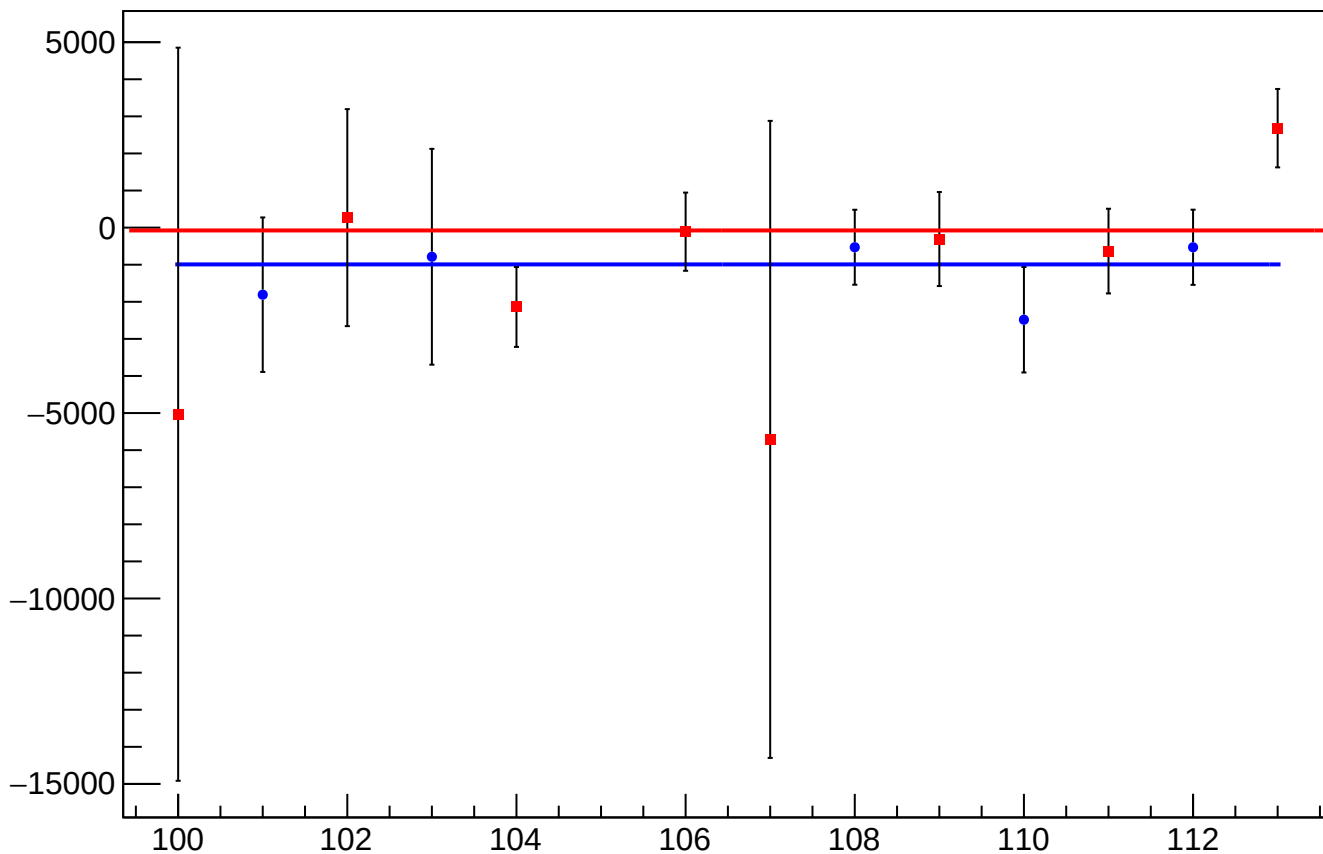
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2507.697+/-0.764  $\chi^2/\text{NDF}$ : 565361.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_cor\_correction\_mean vs Slug



Right In: -991.520+/-598.069  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -76.242+/-488.709  $\chi^2/\text{NDF}$ : 11.4/7

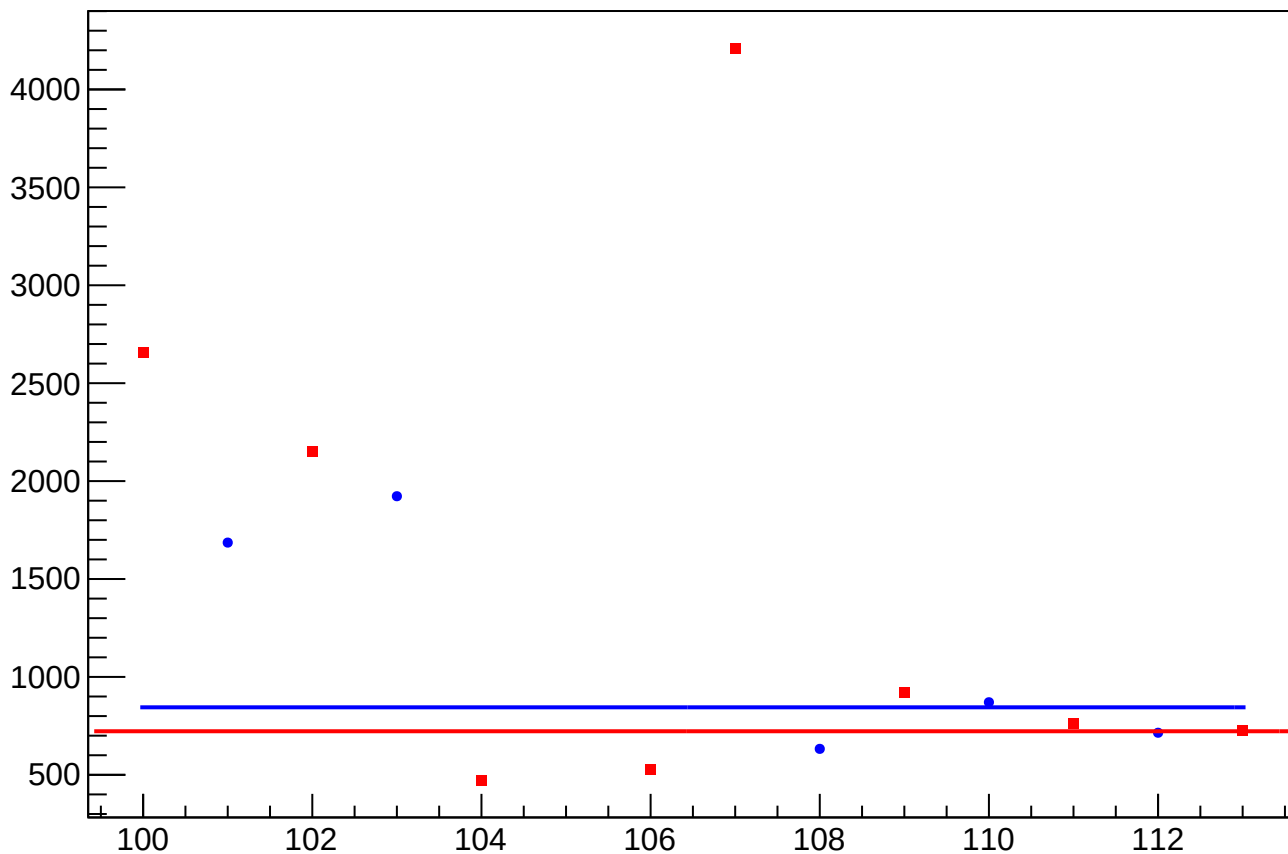
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -442.702+/-378.432  $\chi^2/\text{NDF}$ : 14.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_cor\_correction\_rms vs Slug



Right In: 844.778 $\pm$ 0.423  $\chi^2$ /NDF: 722242.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 722.536 $\pm$ 0.346  $\chi^2$ /NDF: 1111151.4/7

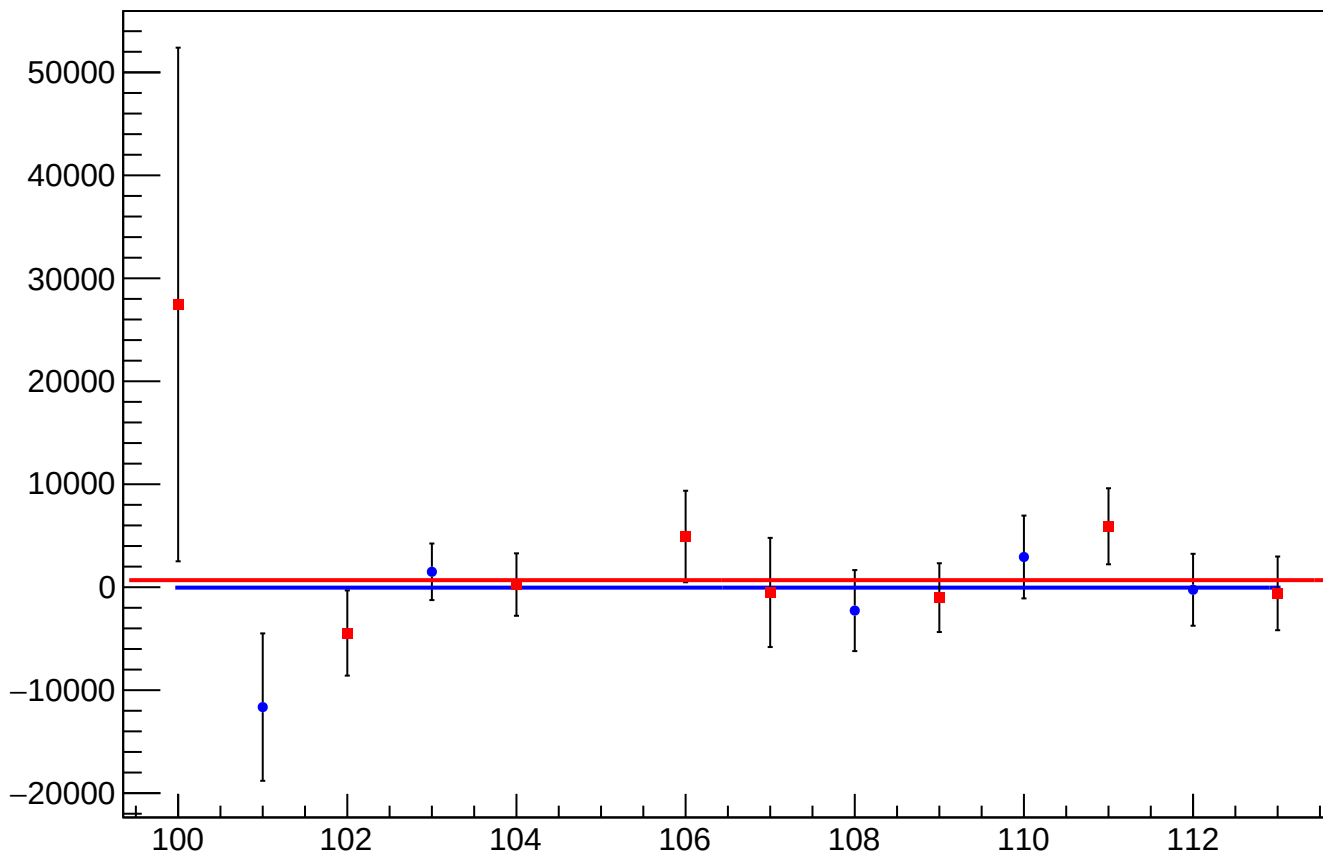
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 771.479 $\pm$ 0.268  $\chi^2$ /NDF: 1883495.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: -41.071 $\pm$ 1665.911  $\chi^2$ /NDF: 3.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 684.650 $\pm$ 1419.850  $\chi^2$ /NDF: 6.1/7

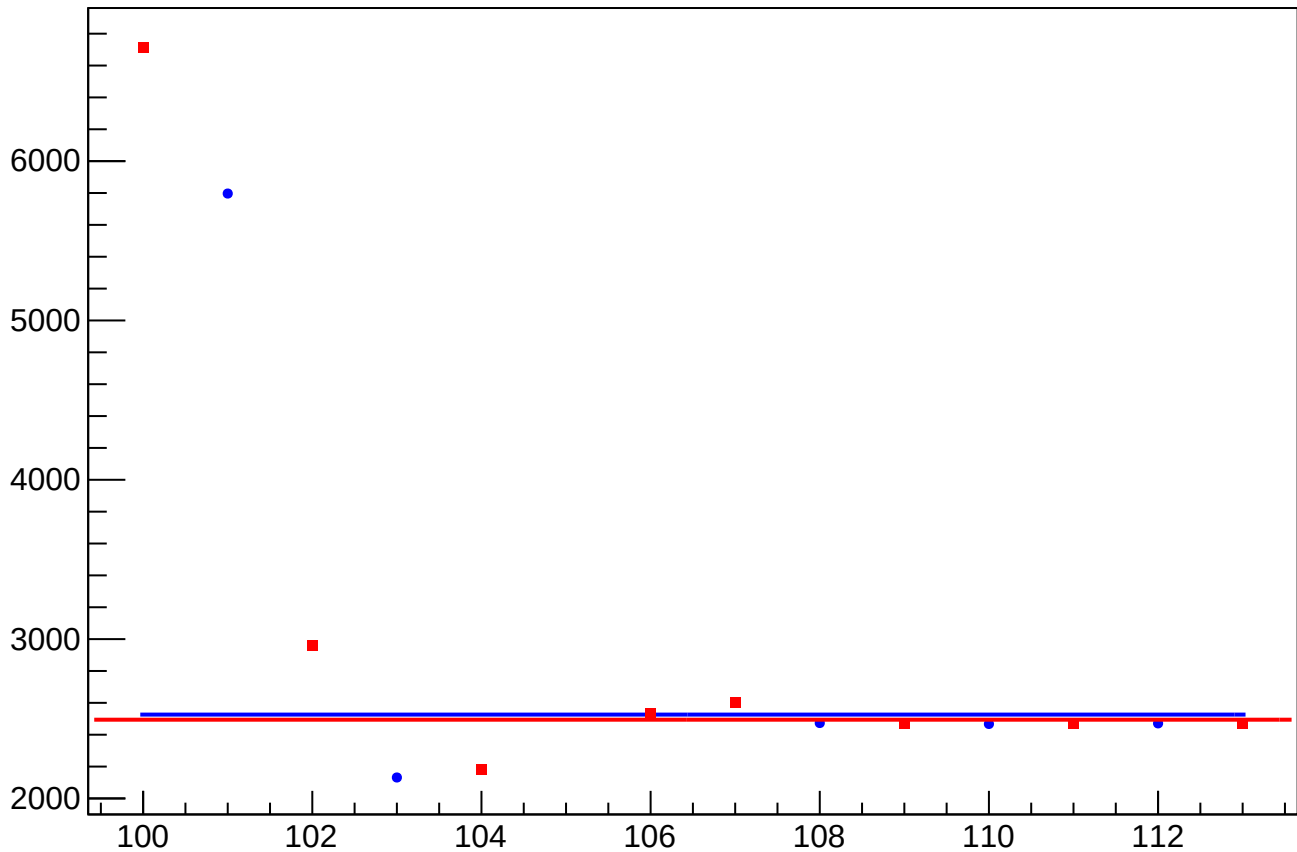
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 379.294 $\pm$ 1080.614  $\chi^2$ /NDF: 10.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2526.254+/-1.178  $\chi^2/\text{NDF}$ : 460039.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2494.216+/-1.004  $\chi^2/\text{NDF}$ : 104893.0/7

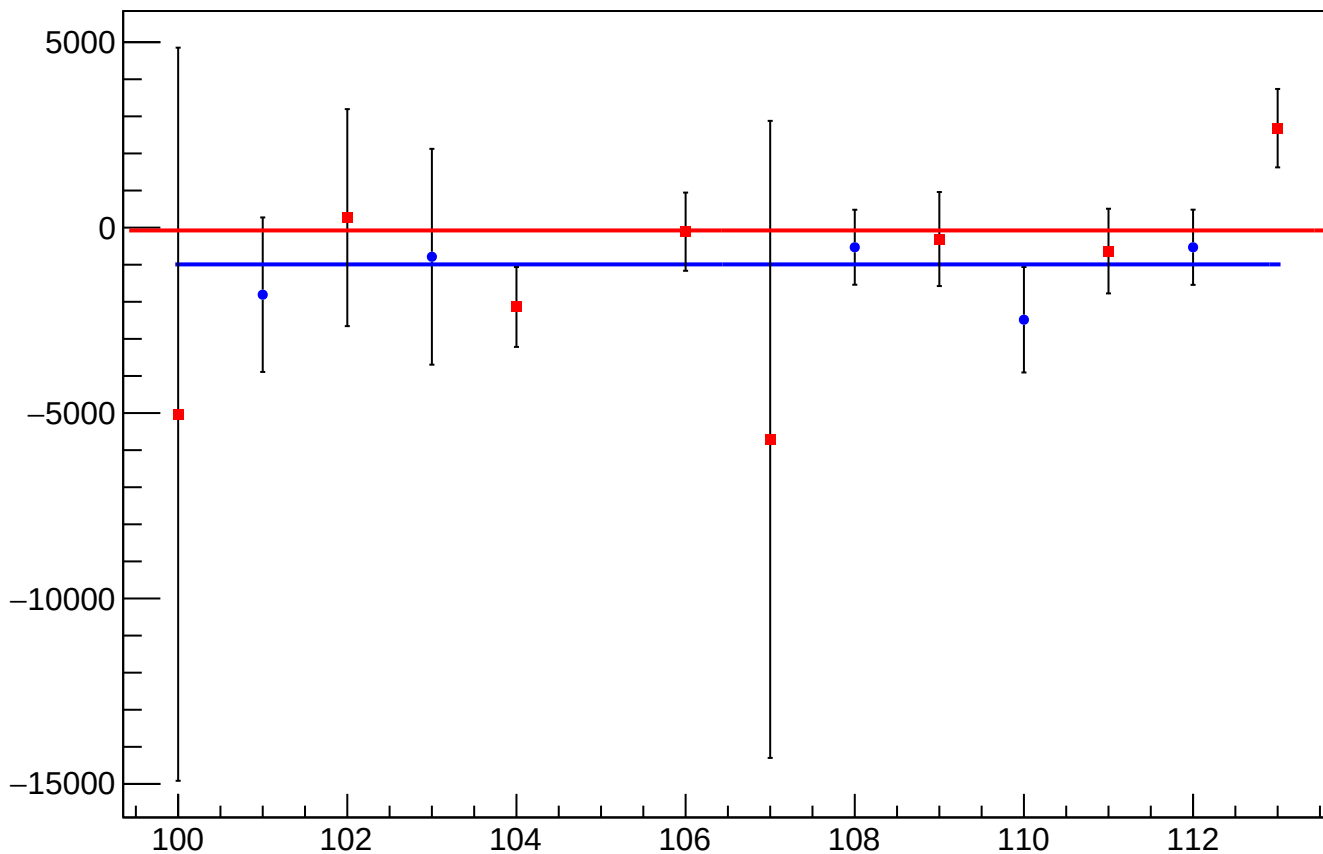
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2507.697+/-0.764  $\chi^2/\text{NDF}$ : 565361.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -991.520+/-598.069  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -76.242+/-488.709  $\chi^2/\text{NDF}$ : 11.4/7

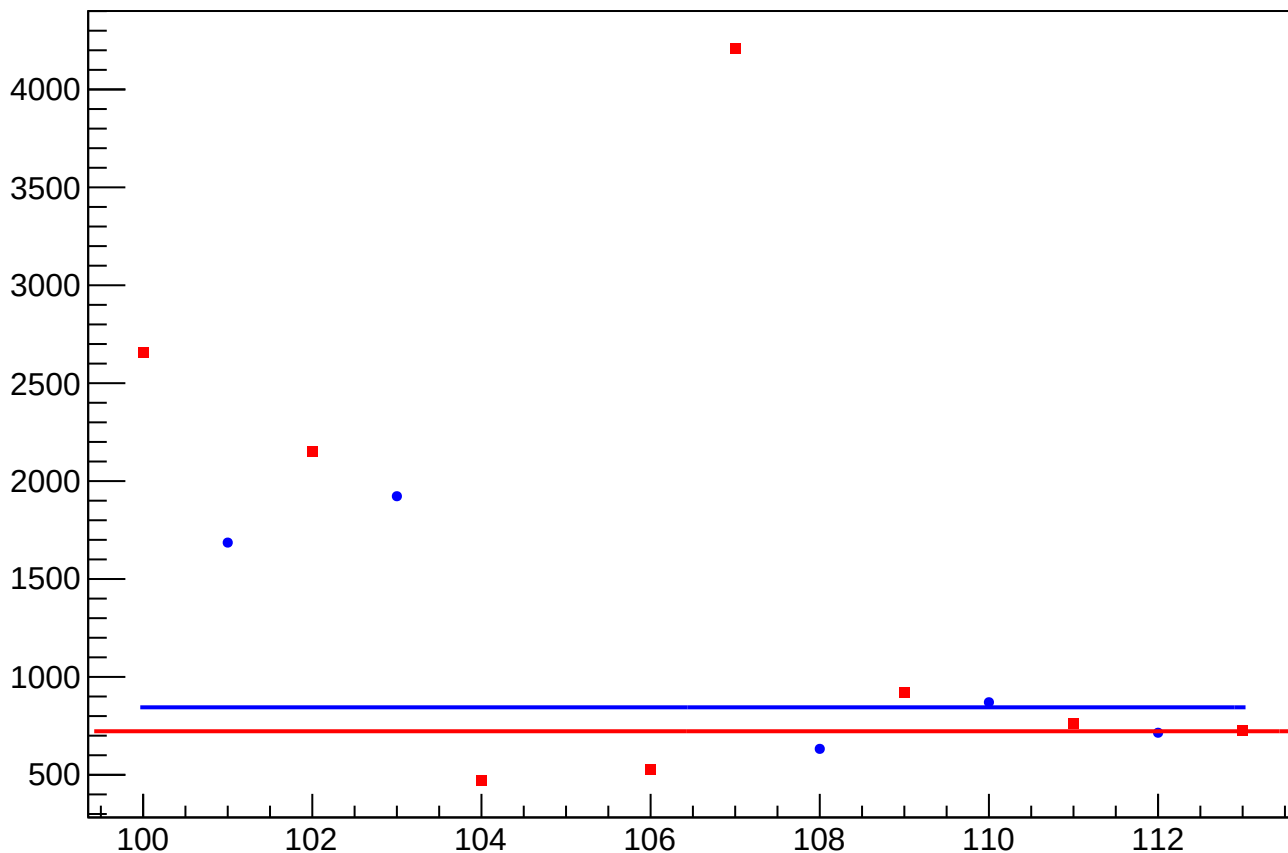
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -442.702+/-378.432  $\chi^2/\text{NDF}$ : 14.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 844.778 $\pm$ 0.423  $\chi^2$ /NDF: 722242.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 722.536 $\pm$ 0.346  $\chi^2$ /NDF: 1111151.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

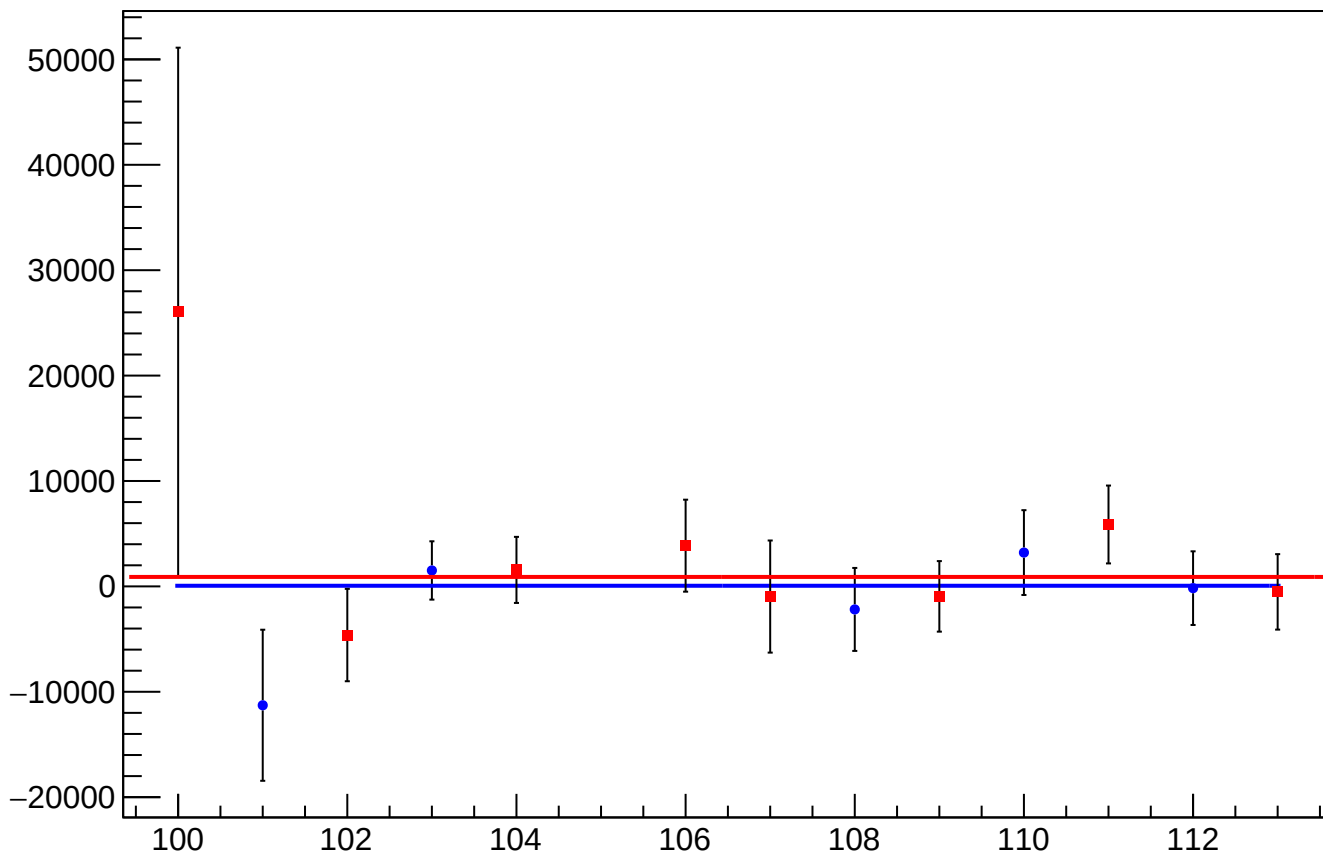
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 771.479 $\pm$ 0.268  $\chi^2$ /NDF: 1883495.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# dit\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: 59.536 $\pm$ 1670.475  $\chi^2$ /NDF: 3.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 897.224 $\pm$ 1437.638  $\chi^2$ /NDF: 5.5/7

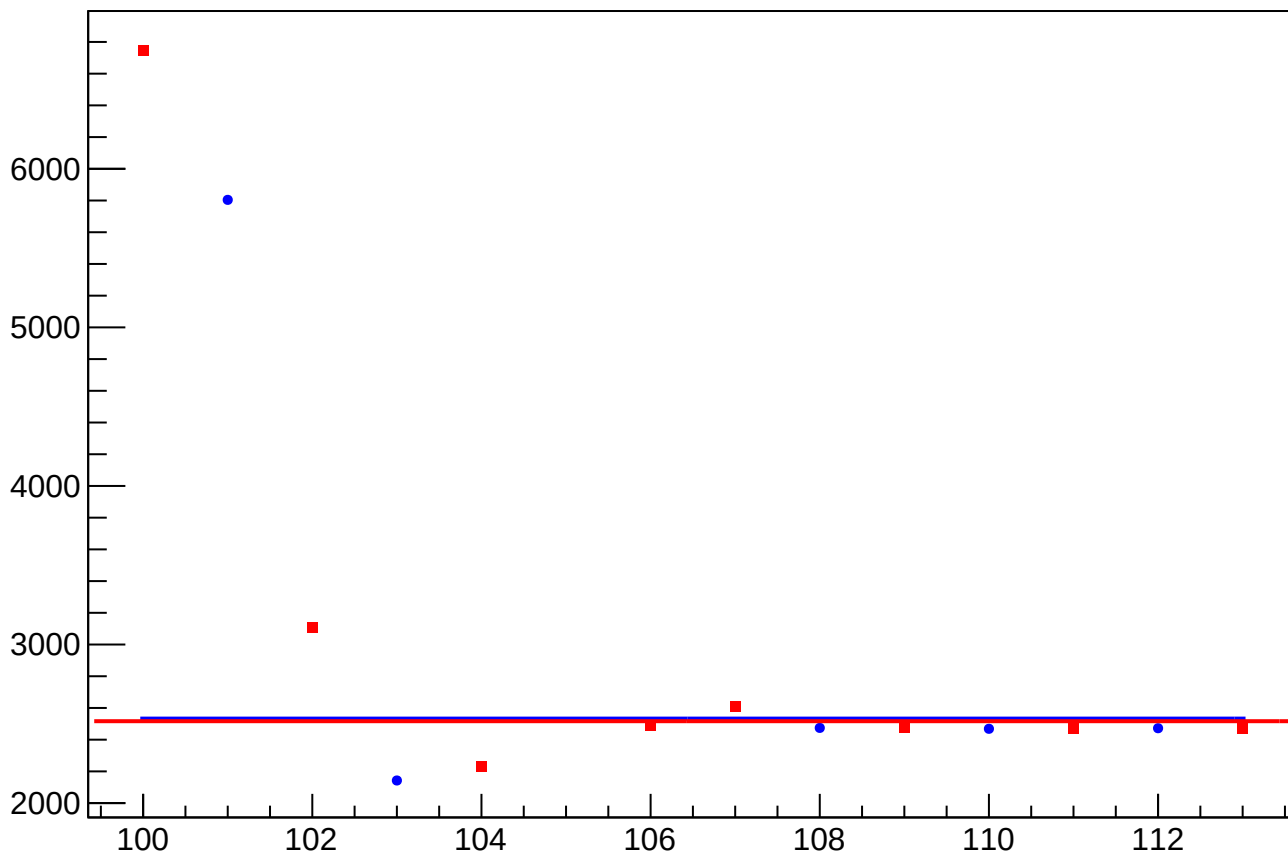
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 540.783 $\pm$ 1089.664  $\chi^2$ /NDF: 9.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2532.801 $\pm$ 1.181  $\chi^2$ /NDF: 457998.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2516.503 $\pm$ 1.017  $\chi^2$ /NDF: 111945.2/7

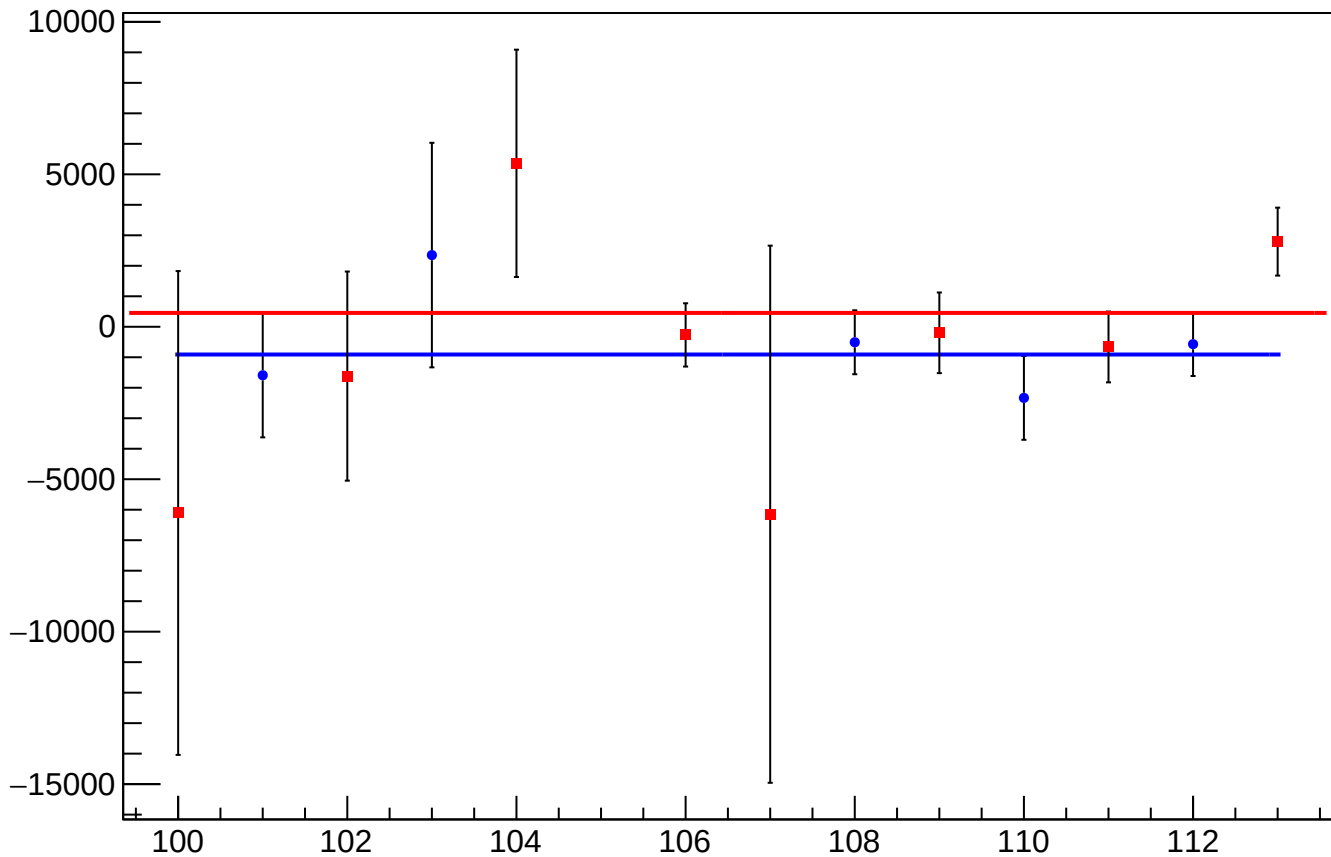
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2523.438 $\pm$ 0.771  $\chi^2$ /NDF: 570052.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_correction\_mean vs Slug



Right In: -909.704+/-611.956  $\chi^2/\text{NDF}$ : 2.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 454.287+/-556.176  $\chi^2/\text{NDF}$ : 9.4/7

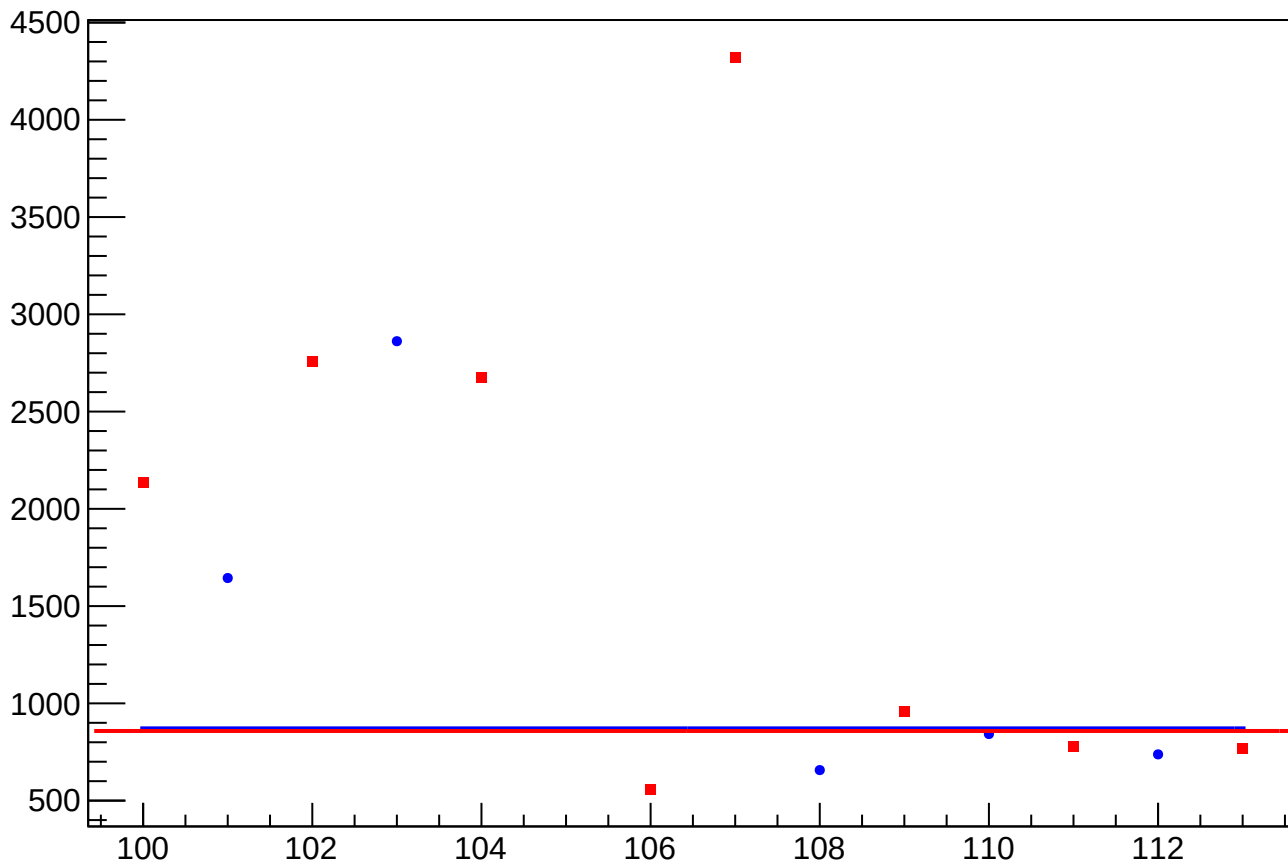
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -162.724+/-411.586  $\chi^2/\text{NDF}$ : 14.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_correction\_rms vs Slug



Right In: 871.431 $\pm$ 0.433  $\chi^2$ /NDF: 989325.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 858.048 $\pm$ 0.393  $\chi^2$ /NDF: 1651288.0/7

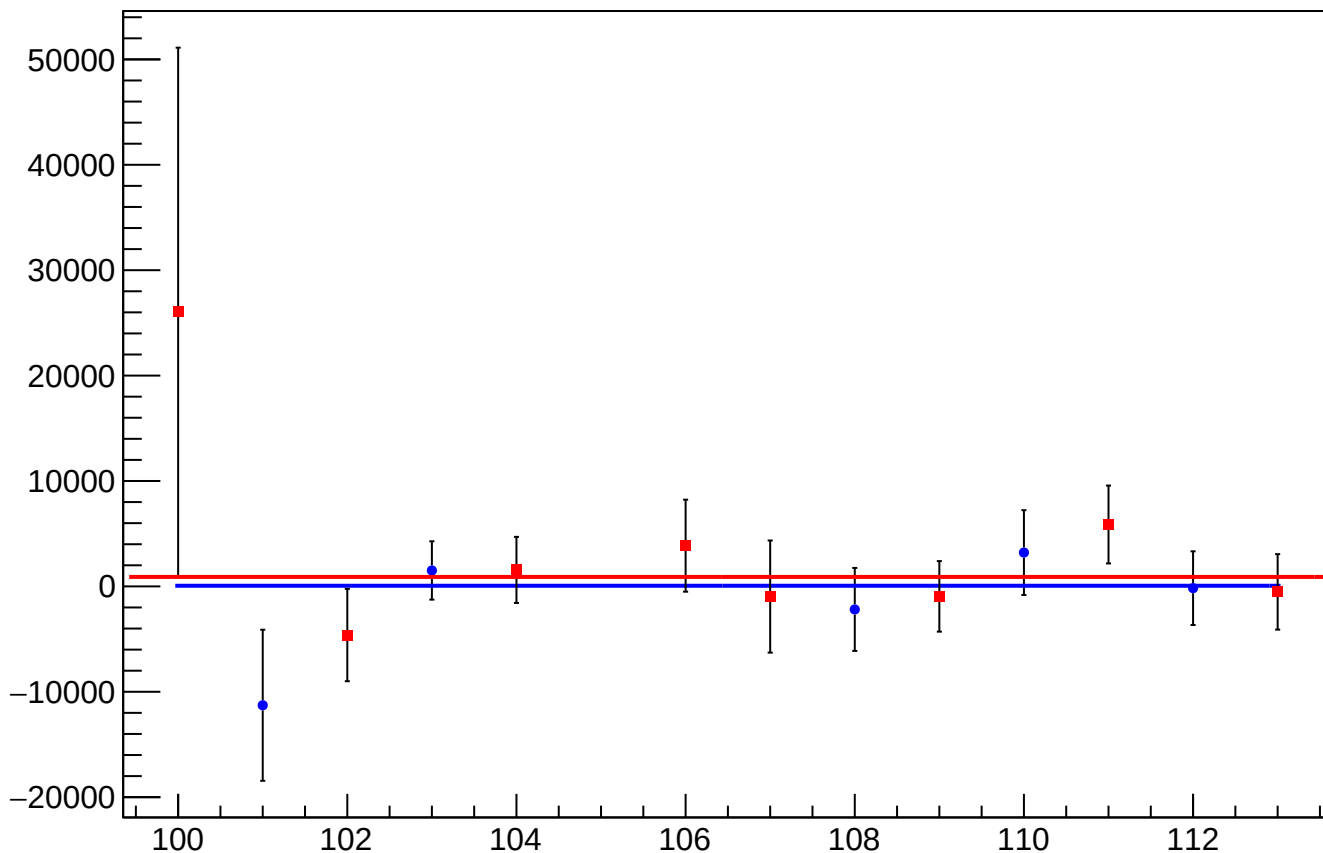
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 864.102 $\pm$ 0.291  $\chi^2$ /NDF: 2641137.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: 59.533+/-1670.475  $\chi^2/\text{NDF}$ : 3.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 897.228+/-1437.638  $\chi^2/\text{NDF}$ : 5.5/7

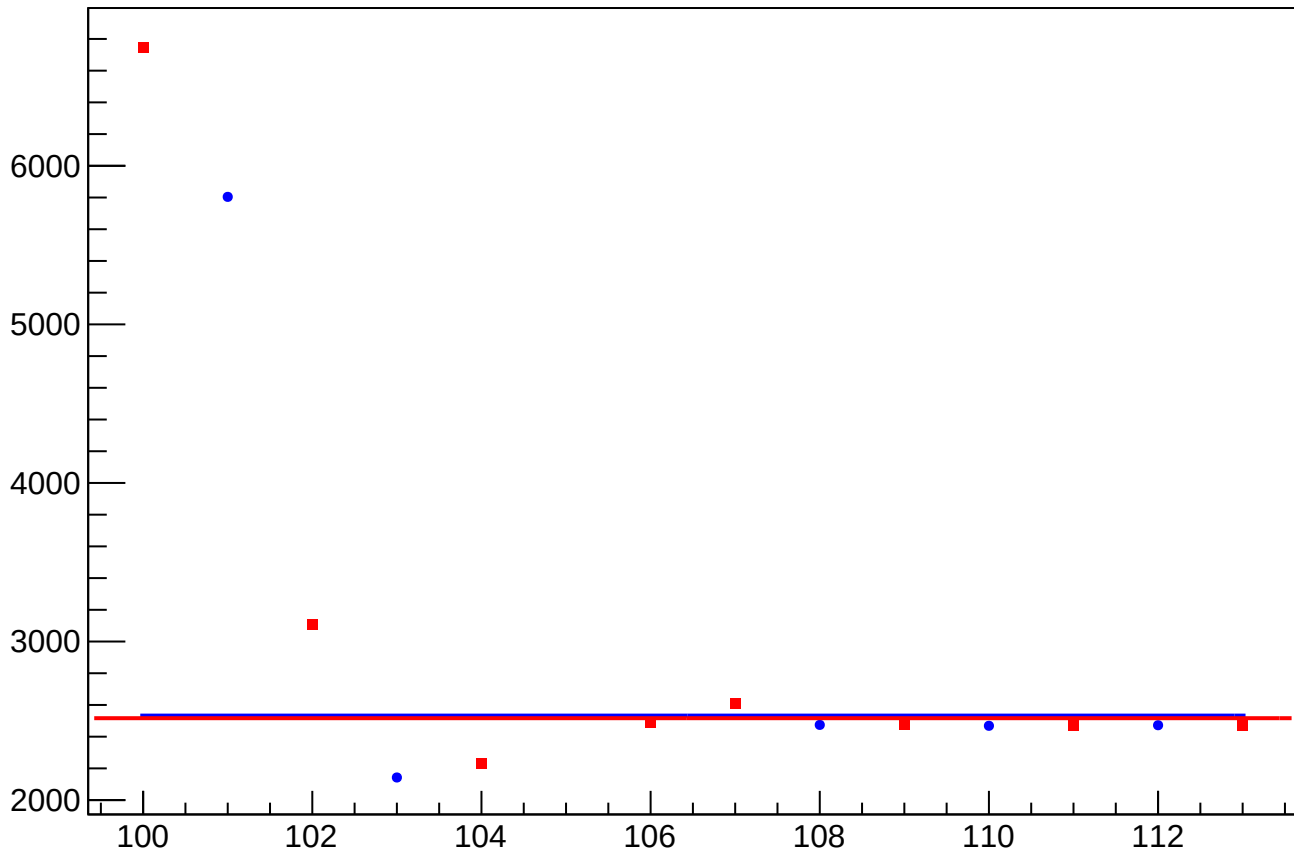
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 540.784+/-1089.664  $\chi^2/\text{NDF}$ : 9.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2532.801+/-1.181  $\chi^2/\text{NDF}$ : 457998.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2516.502+/-1.017  $\chi^2/\text{NDF}$ : 111945.2/7

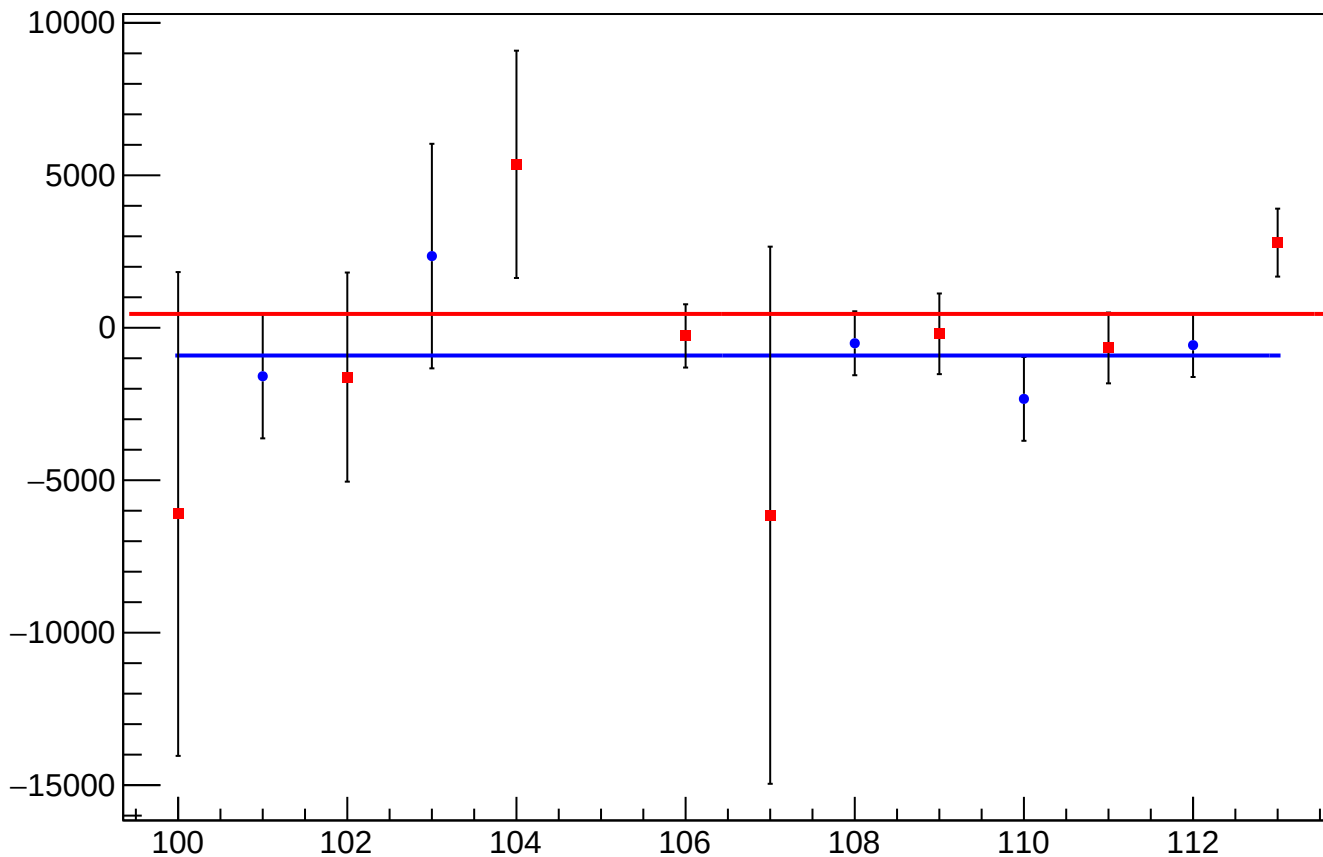
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2523.438+/-0.771  $\chi^2/\text{NDF}$ : 570052.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -909.708+/-611.959  $\chi^2/\text{NDF}$ : 2.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 454.286+/-556.178  $\chi^2/\text{NDF}$ : 9.4/7

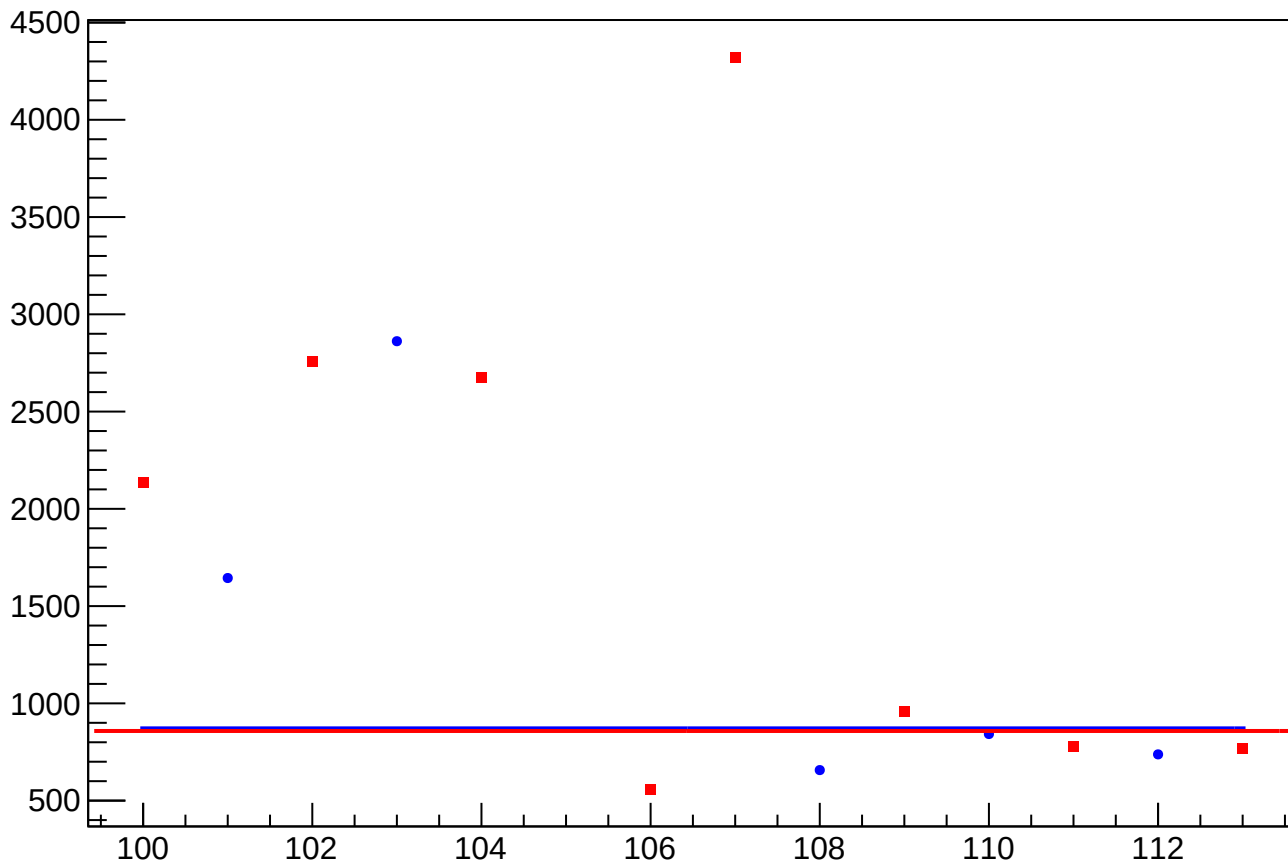
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -162.725+/-411.588  $\chi^2/\text{NDF}$ : 14.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 871.436+/-0.433  $\chi^2/\text{NDF}$ : 989319.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 858.052+/-0.393  $\chi^2/\text{NDF}$ : 1651282.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

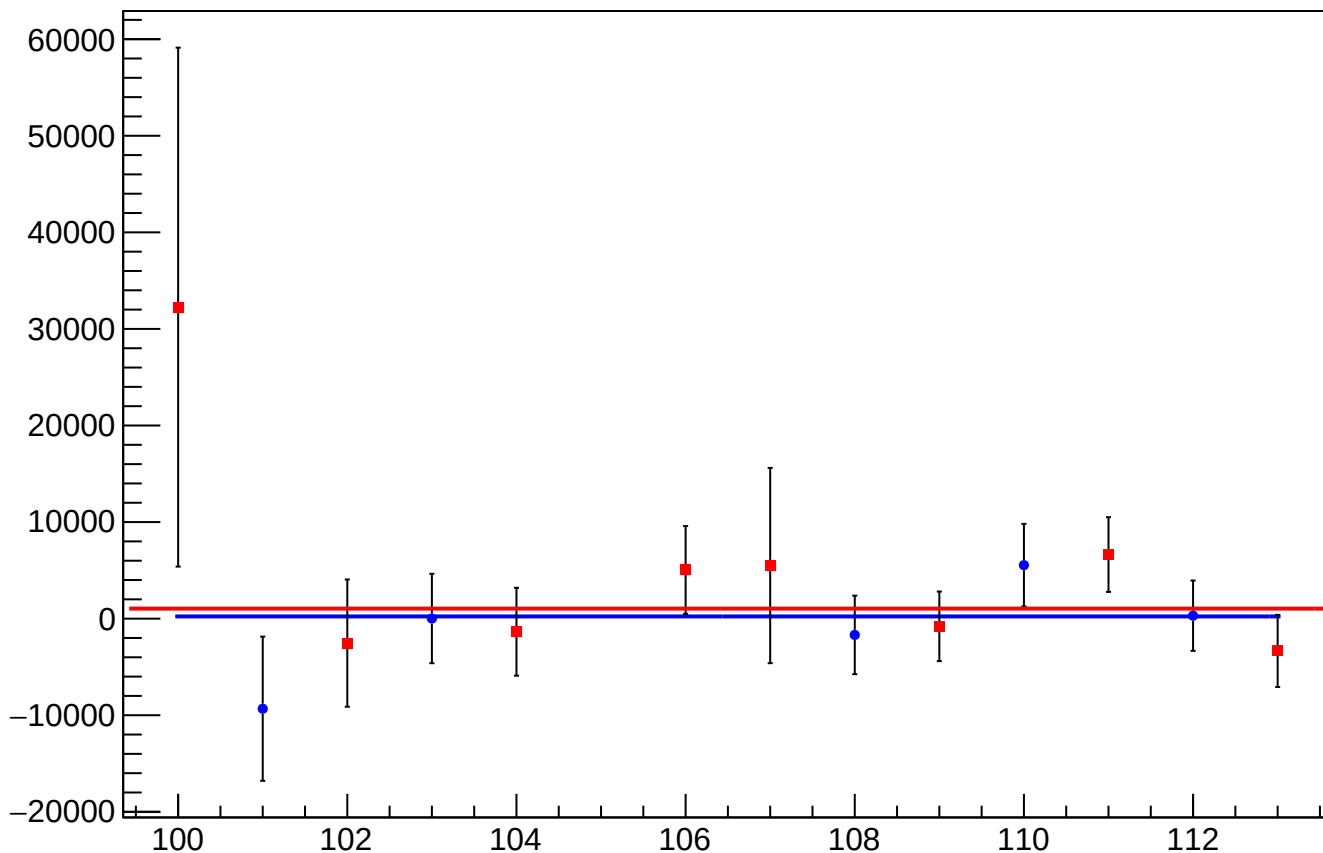
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 864.106+/-0.291  $\chi^2/\text{NDF}$ : 2641125.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: 230.105 $\pm$ 1978.287  $\chi^2$ /NDF: 3.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1044.137 $\pm$ 1698.868  $\chi^2$ /NDF: 6.6/7

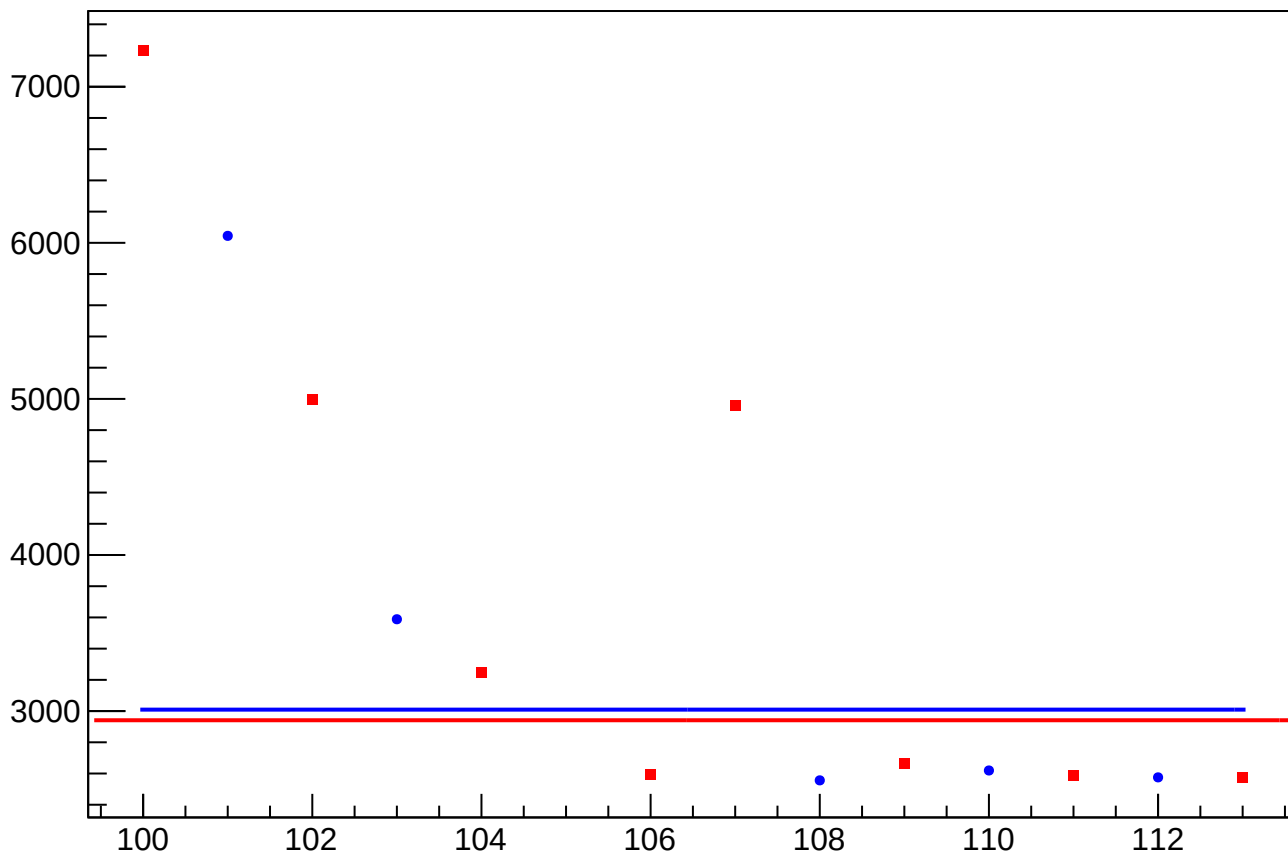
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 698.622 $\pm$ 1288.848  $\chi^2$ /NDF: 10.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 3009.285+/-1.399  $\chi^2/\text{NDF}$ : 432141.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2941.238+/-1.201  $\chi^2/\text{NDF}$ : 393808.0/7

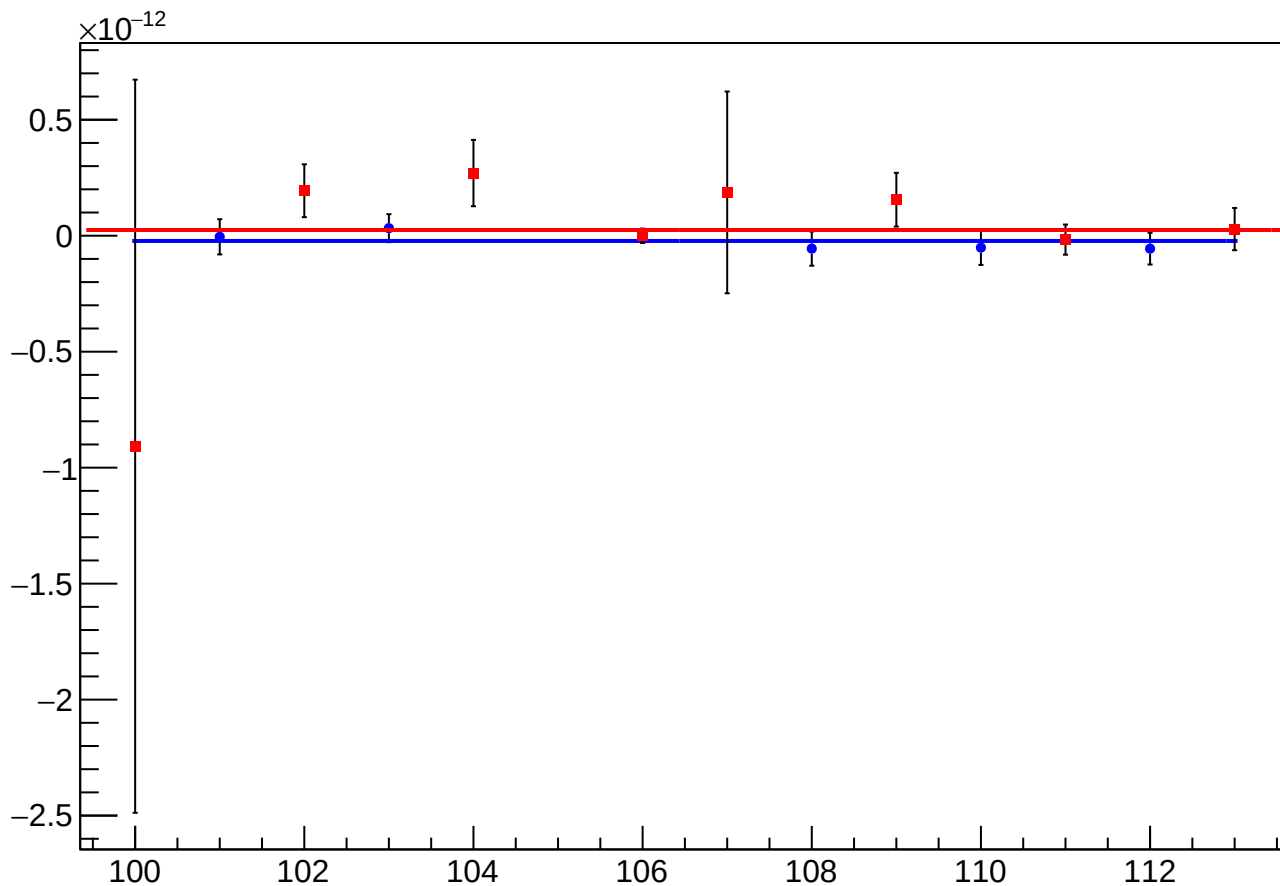
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2970.120+/-0.911  $\chi^2/\text{NDF}$ : 827311.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 1.5/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 8.0/7

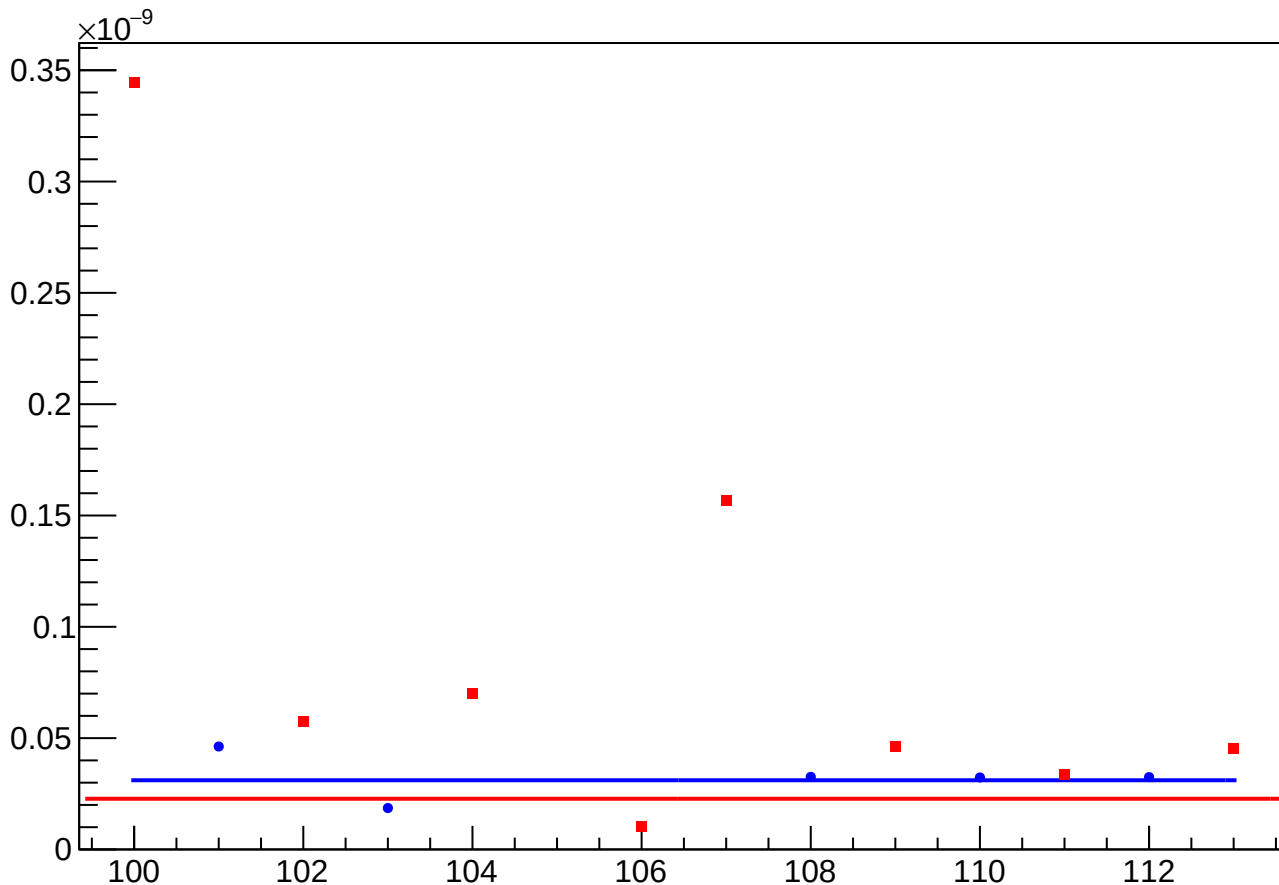
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 10.8/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 167533.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1251789.5/7

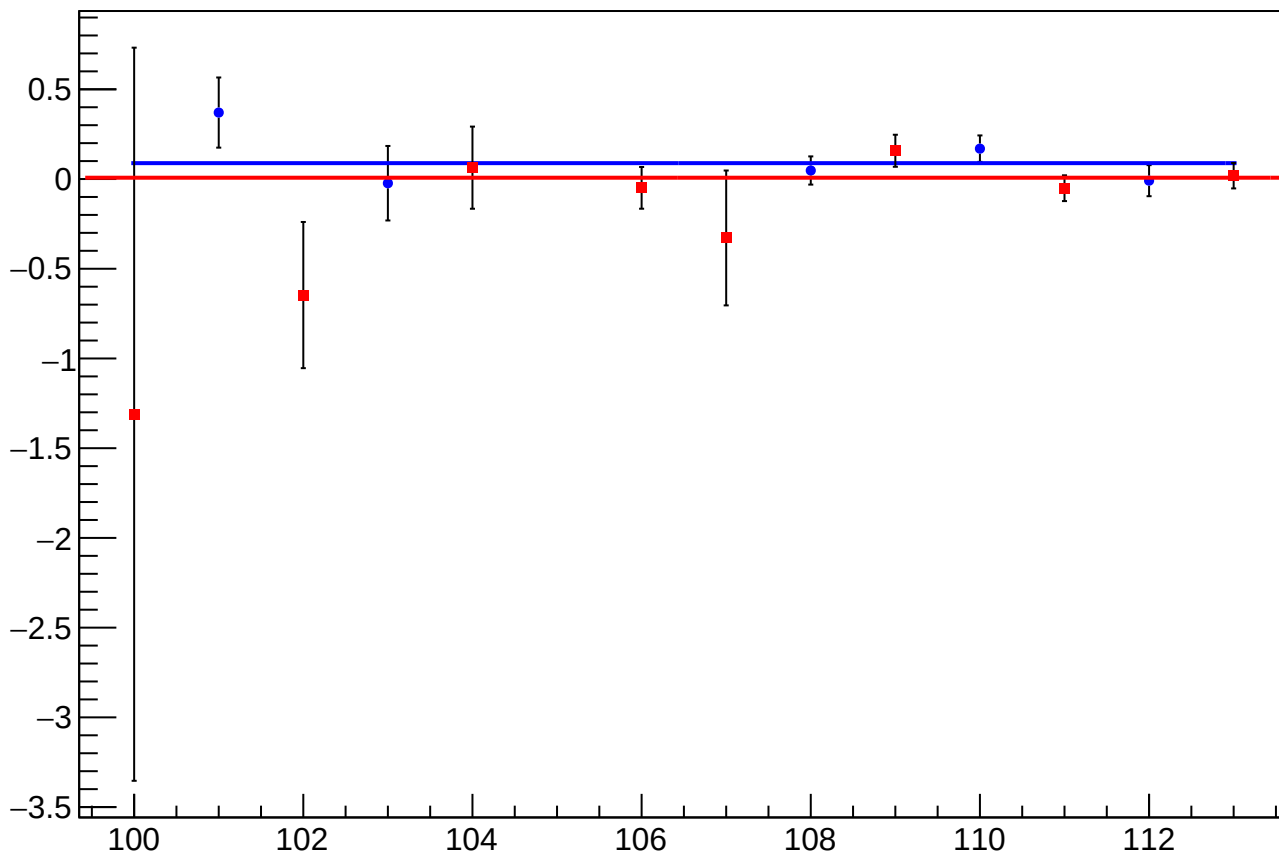
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1505408.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.088 $\pm$ 0.043  $\chi^2$ /NDF: 5.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.007 $\pm$ 0.040  $\chi^2$ /NDF: 7.6/7

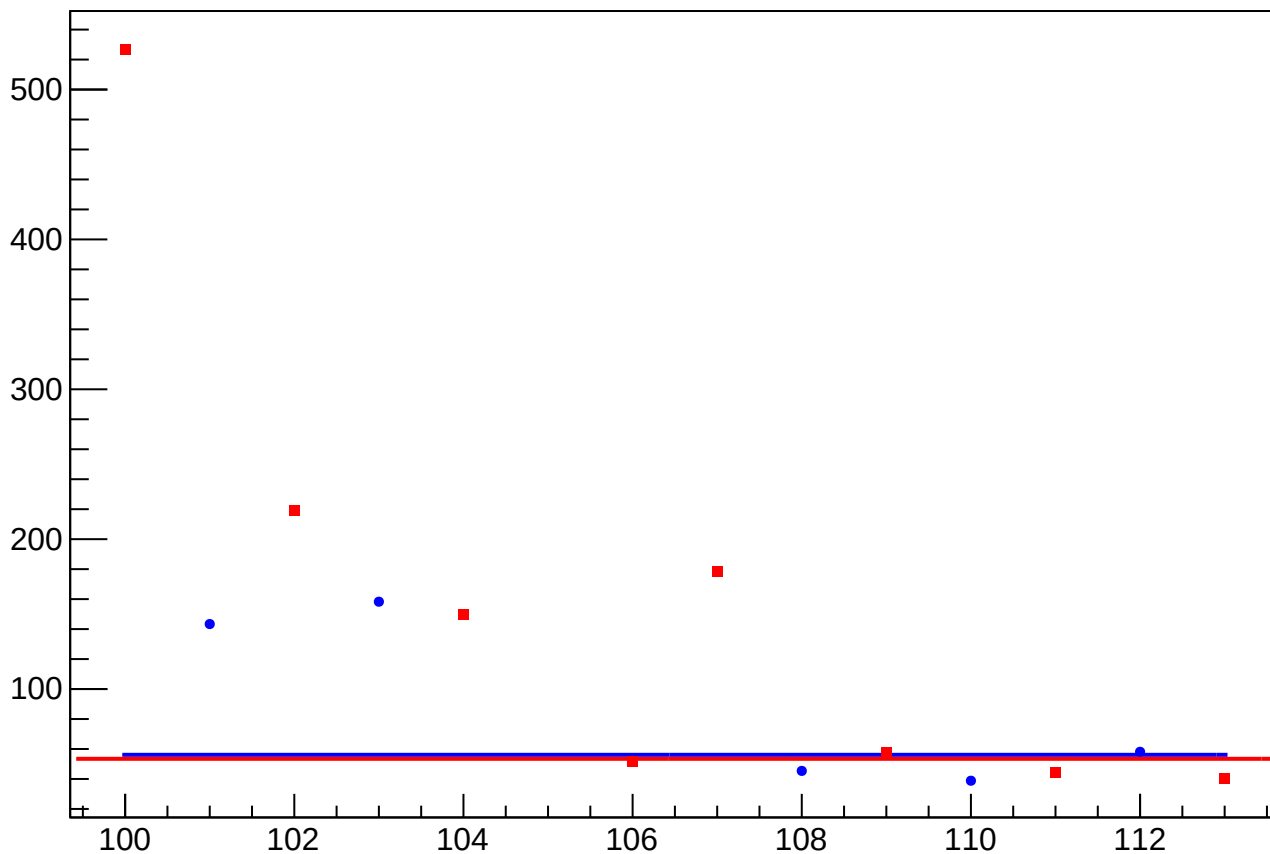
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.045 $\pm$ 0.029  $\chi^2$ /NDF: 14.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 56.119+/-0.031  $\chi^2/\text{NDF}$ : 1031084.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.451+/-0.028  $\chi^2/\text{NDF}$ : 1114712.4/7

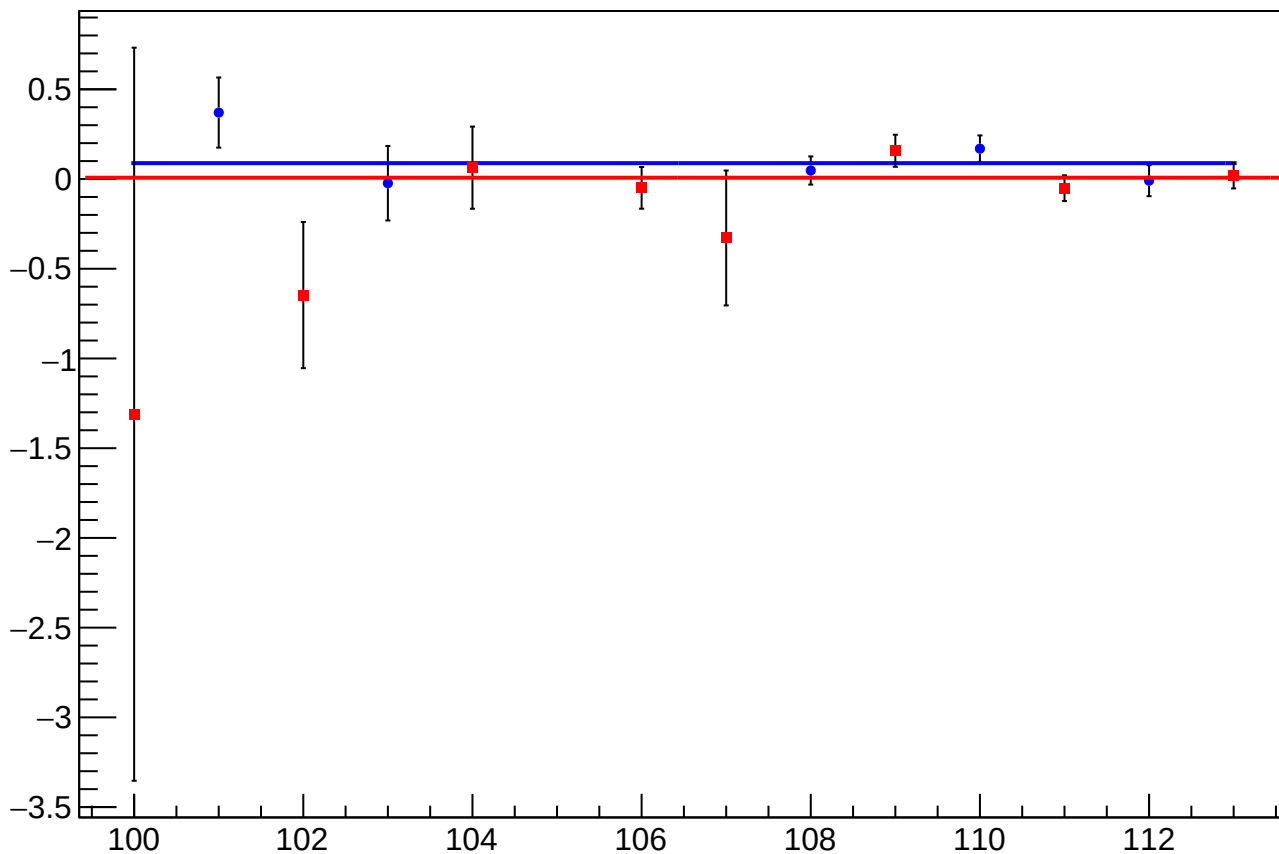
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.674+/-0.021  $\chi^2/\text{NDF}$ : 2149874.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.088 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 5.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007 $\pm$ 0.040  $\chi^2/\text{NDF}$ : 7.6/7

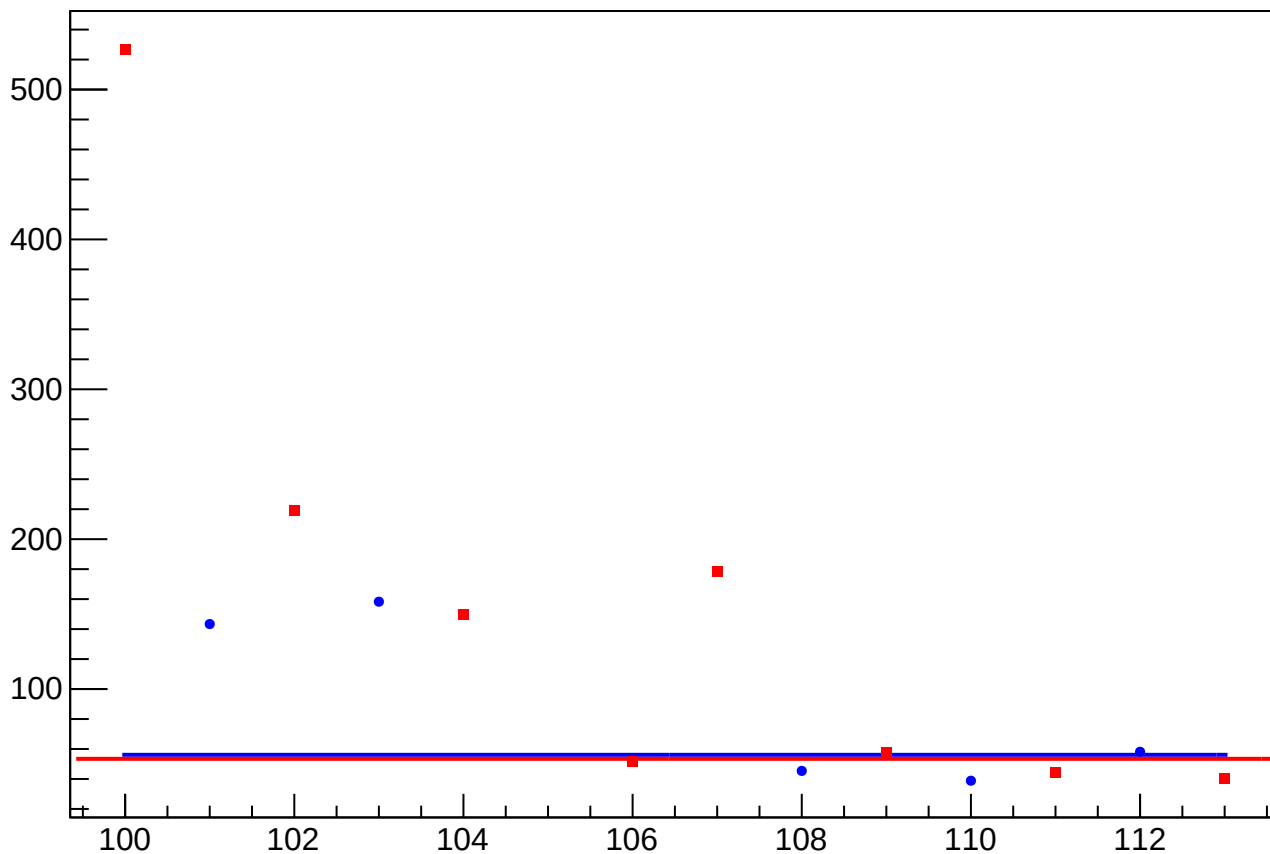
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.045 $\pm$ 0.029  $\chi^2/\text{NDF}$ : 14.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 56.119+/-0.031  $\chi^2/\text{NDF}$ : 1031084.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.451+/-0.028  $\chi^2/\text{NDF}$ : 1114712.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

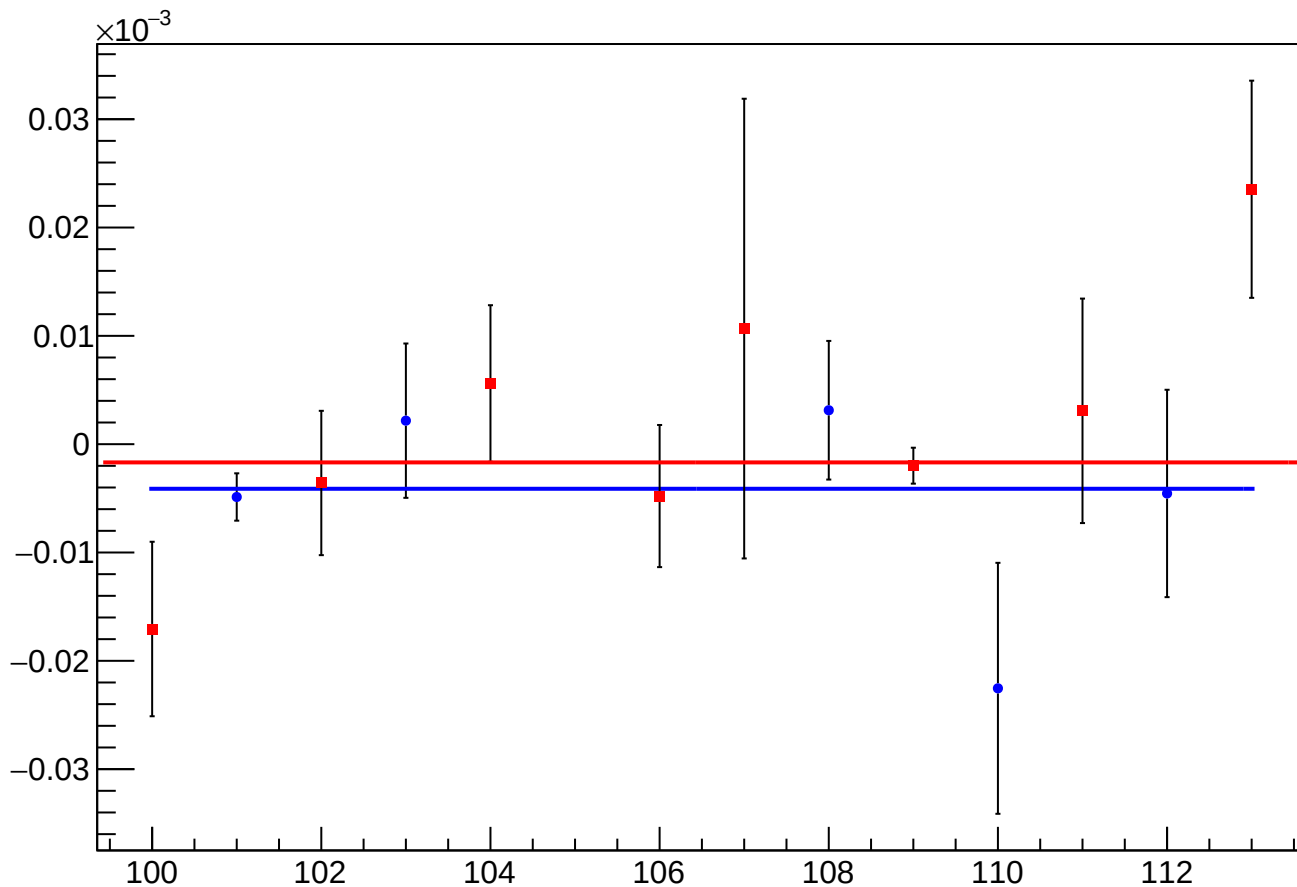
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.674+/-0.021  $\chi^2/\text{NDF}$ : 2149874.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.9/7

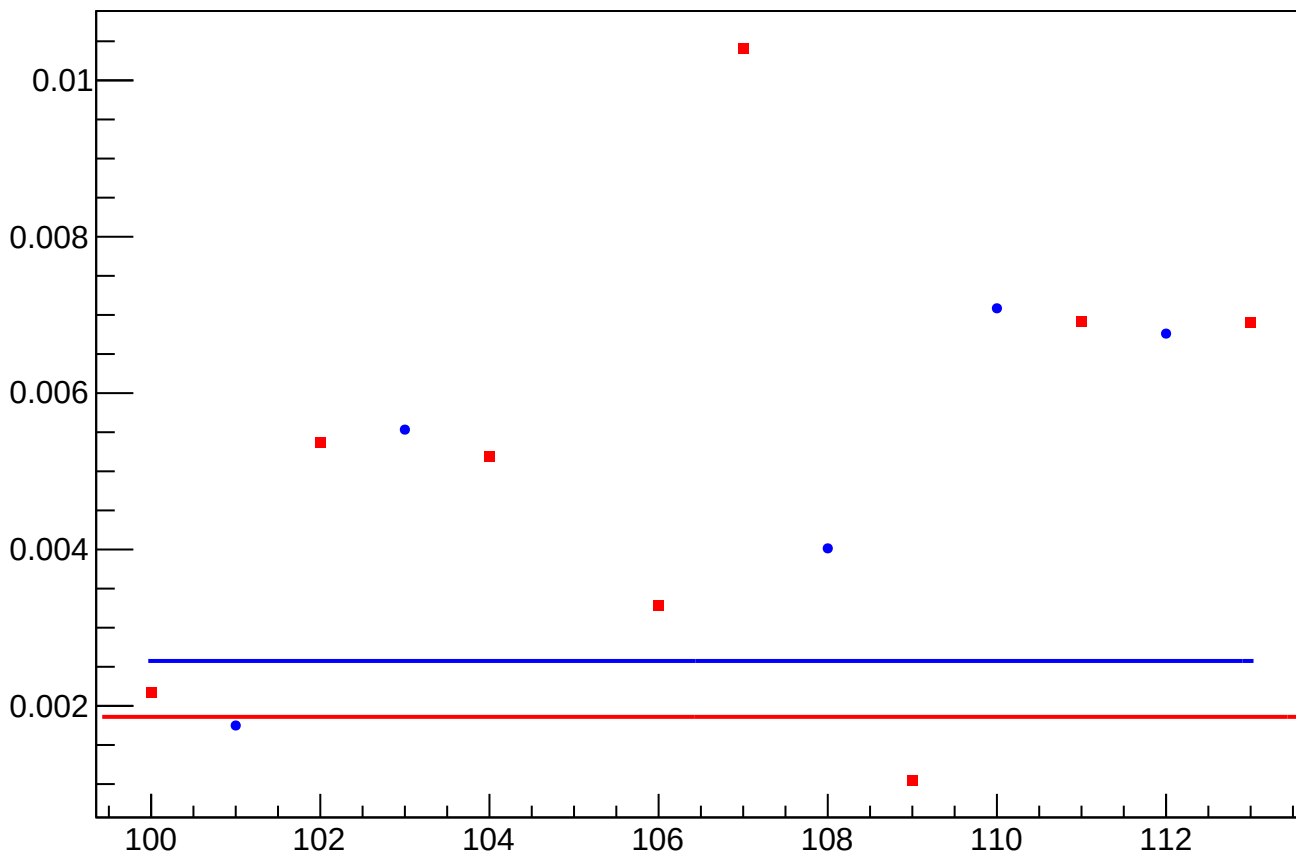
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1417367.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2868614.8/7

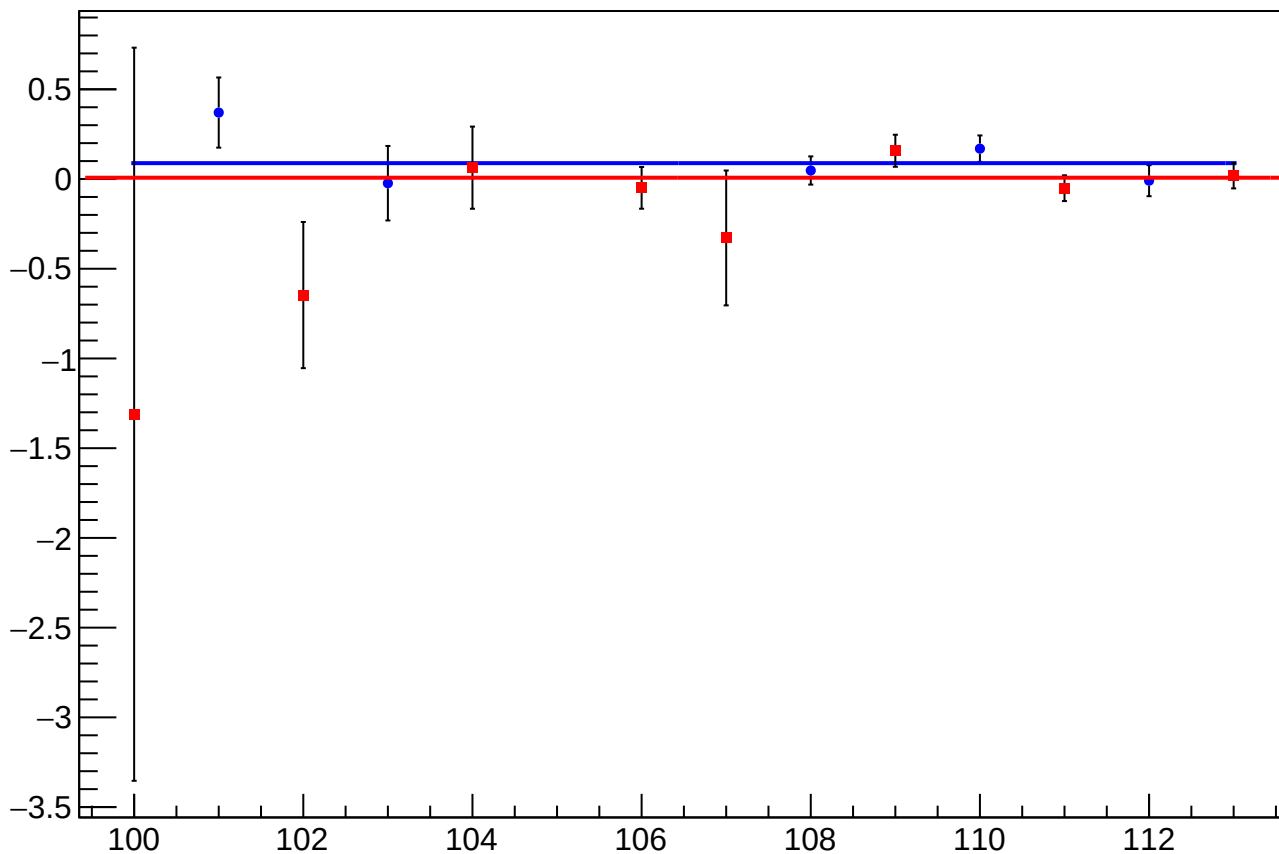
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4461322.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.088 $\pm$ 0.043  $\chi^2$ /NDF: 5.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.007 $\pm$ 0.040  $\chi^2$ /NDF: 7.6/7

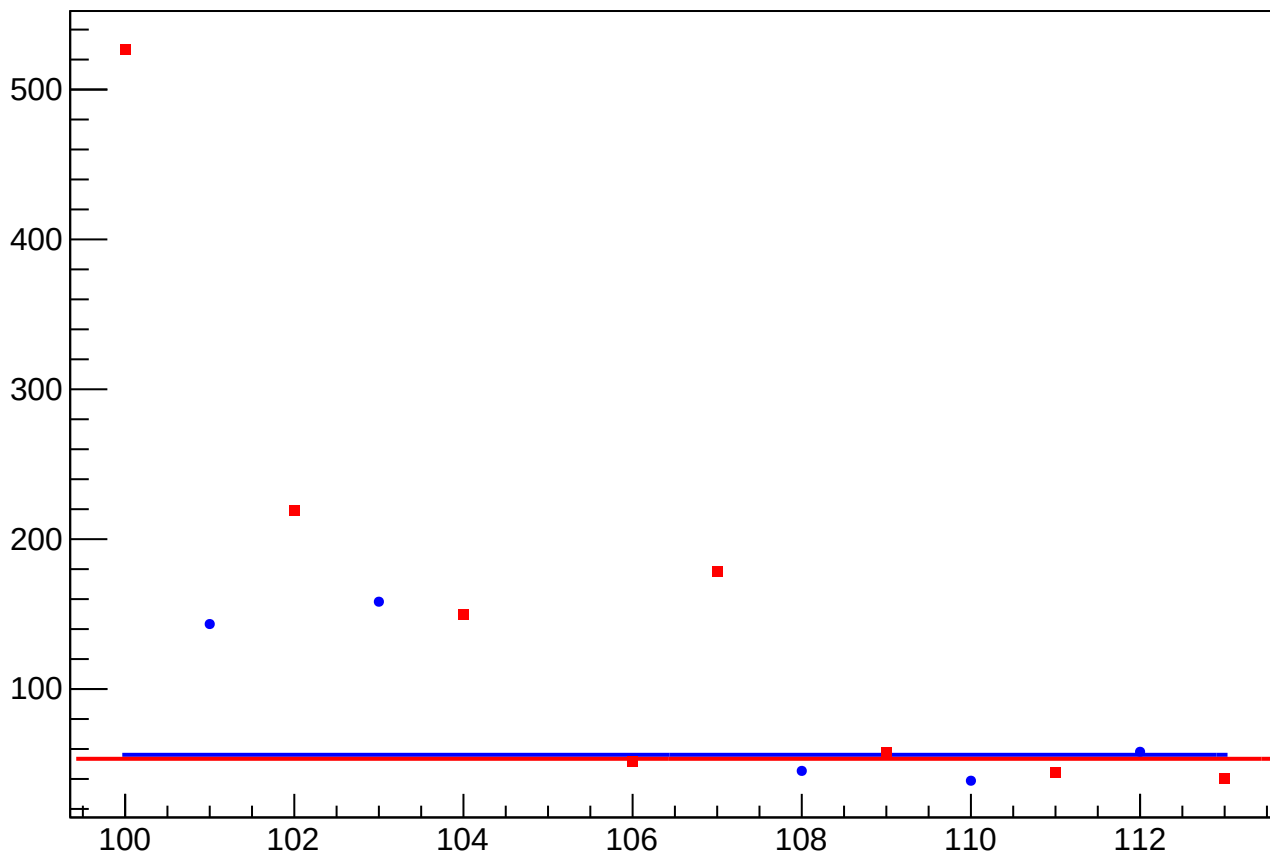
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.045 $\pm$ 0.029  $\chi^2$ /NDF: 14.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 56.118+/-0.031  $\chi^2/\text{NDF}$ : 1031130.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.455+/-0.028  $\chi^2/\text{NDF}$ : 1114593.7/7

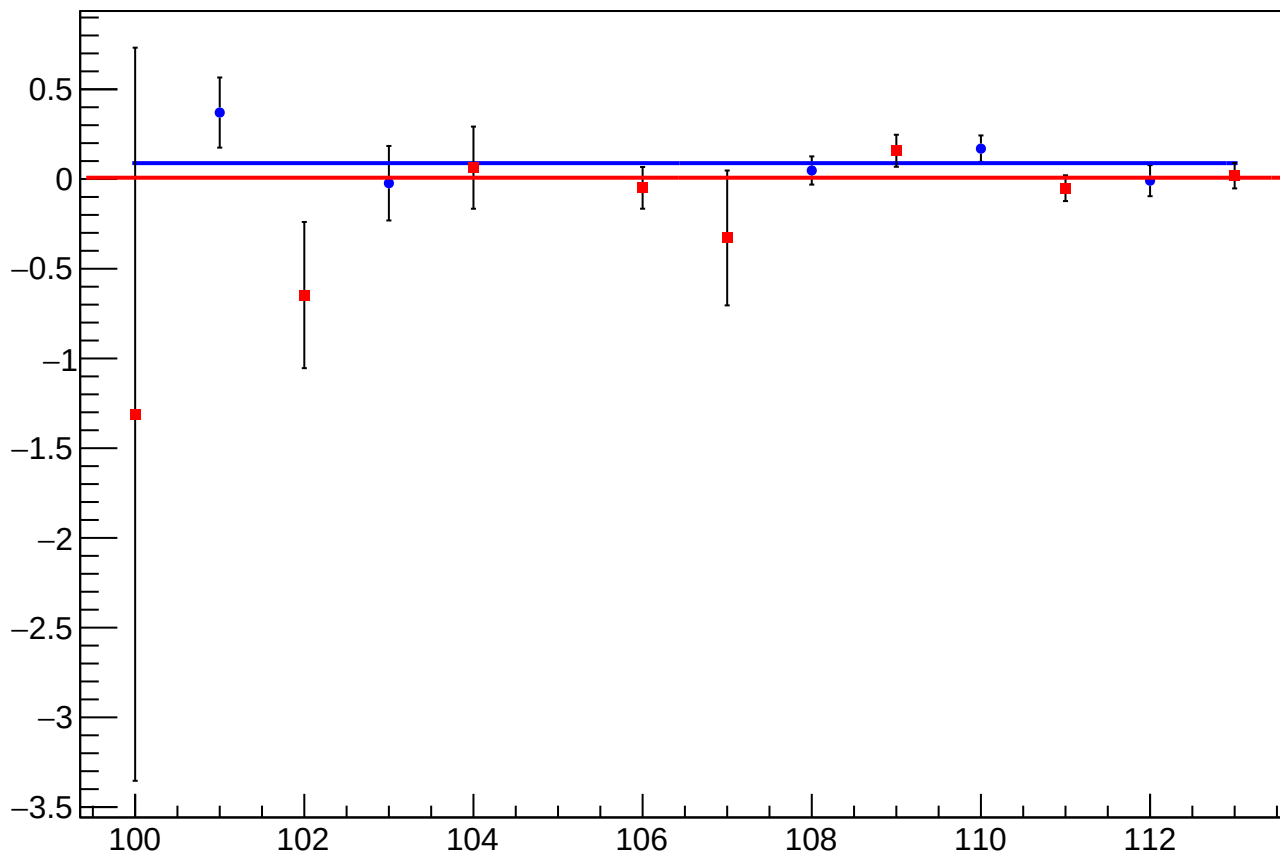
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.676+/-0.021  $\chi^2/\text{NDF}$ : 2149786.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.088 $\pm$ 0.043  $\chi^2$ /NDF: 5.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.007 $\pm$ 0.040  $\chi^2$ /NDF: 7.6/7

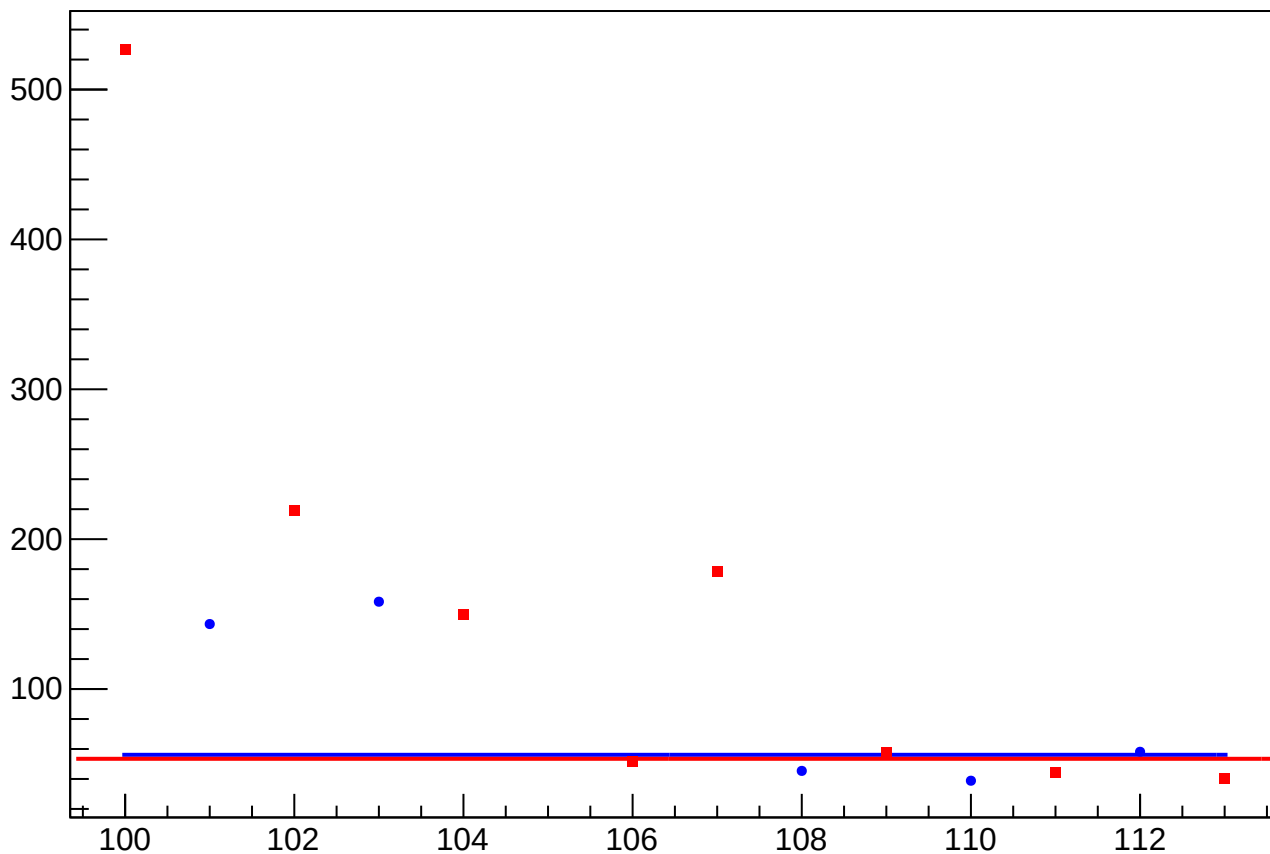
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.045 $\pm$ 0.029  $\chi^2$ /NDF: 14.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 56.118+/-0.031  $\chi^2/\text{NDF}$ : 1031130.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.455+/-0.028  $\chi^2/\text{NDF}$ : 1114593.7/7

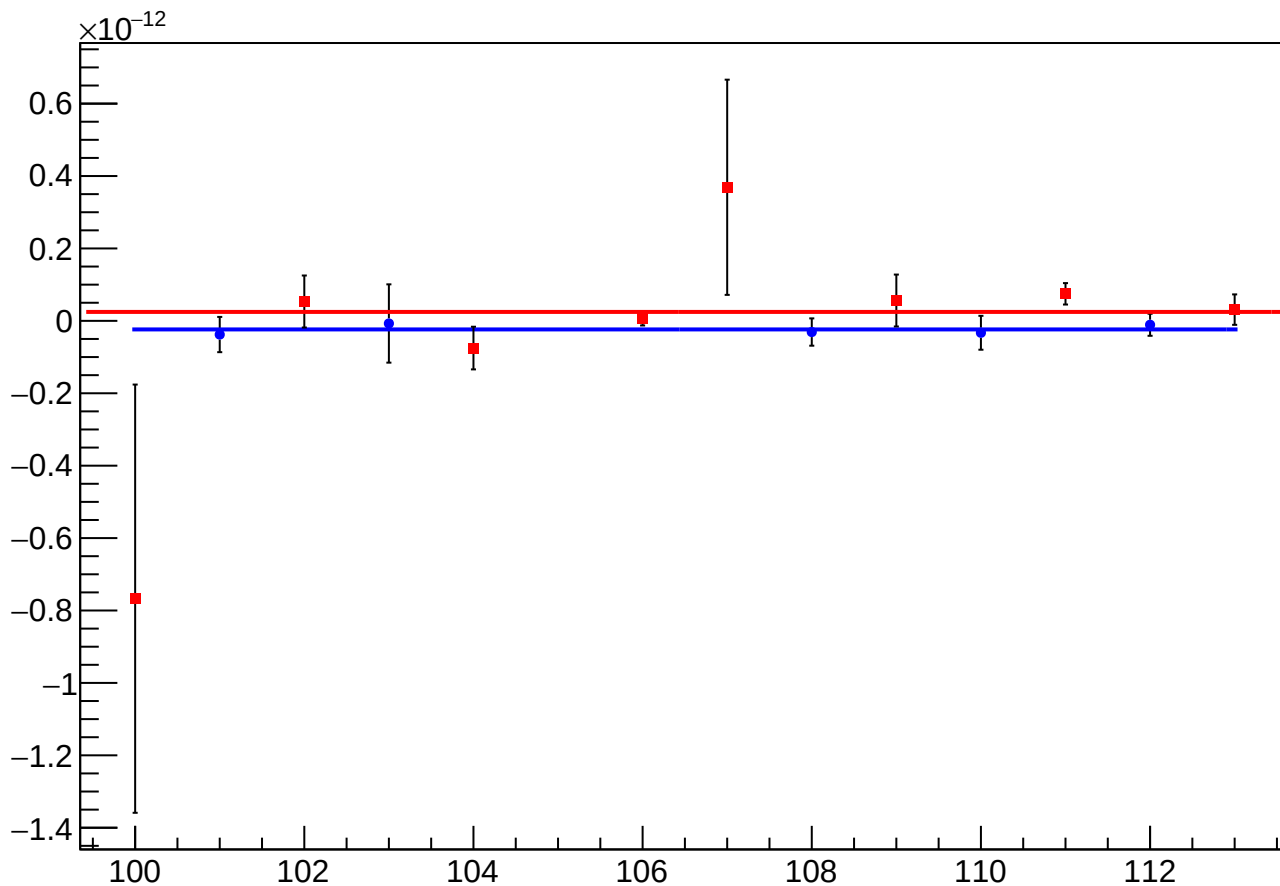
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.676+/-0.021  $\chi^2/\text{NDF}$ : 2149786.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.0/7

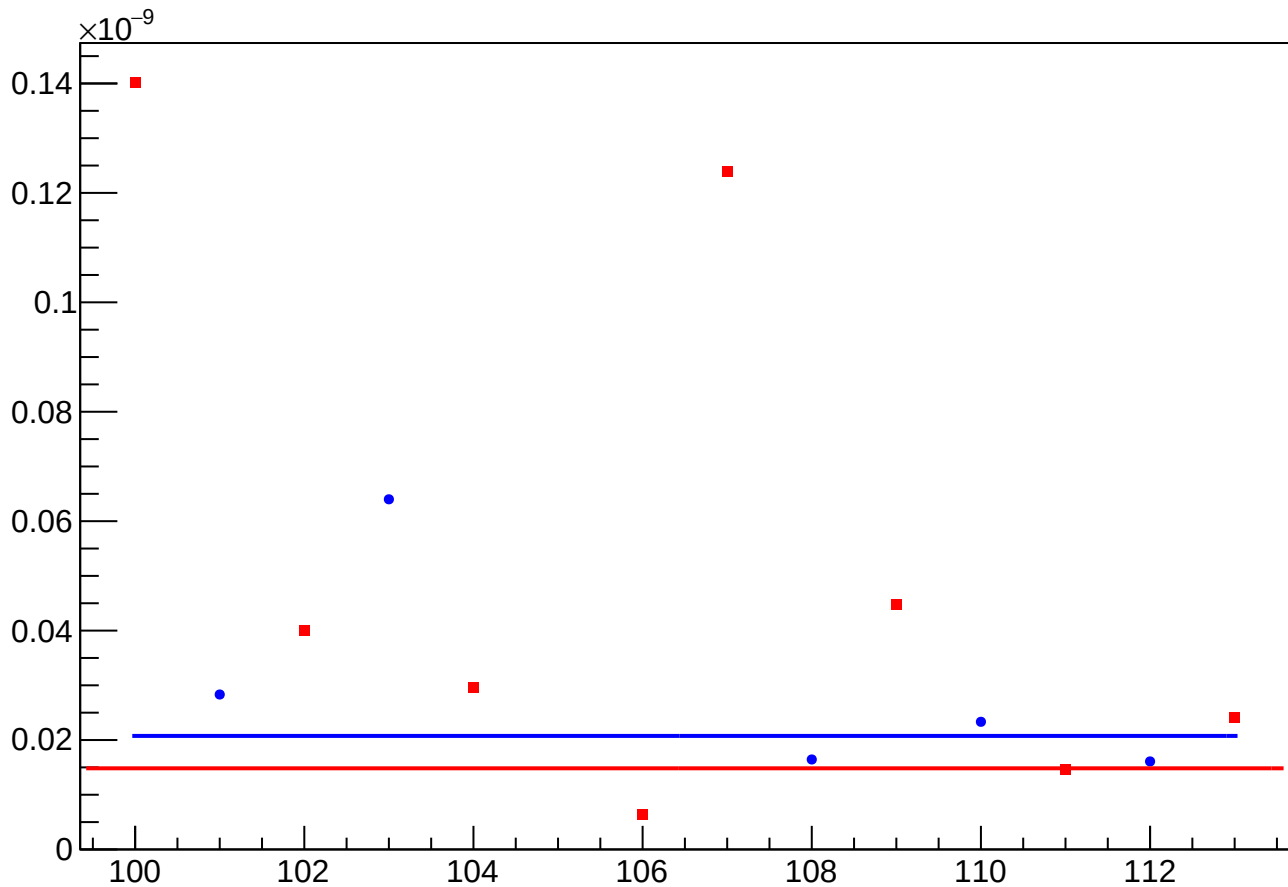
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 447353.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1542766.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

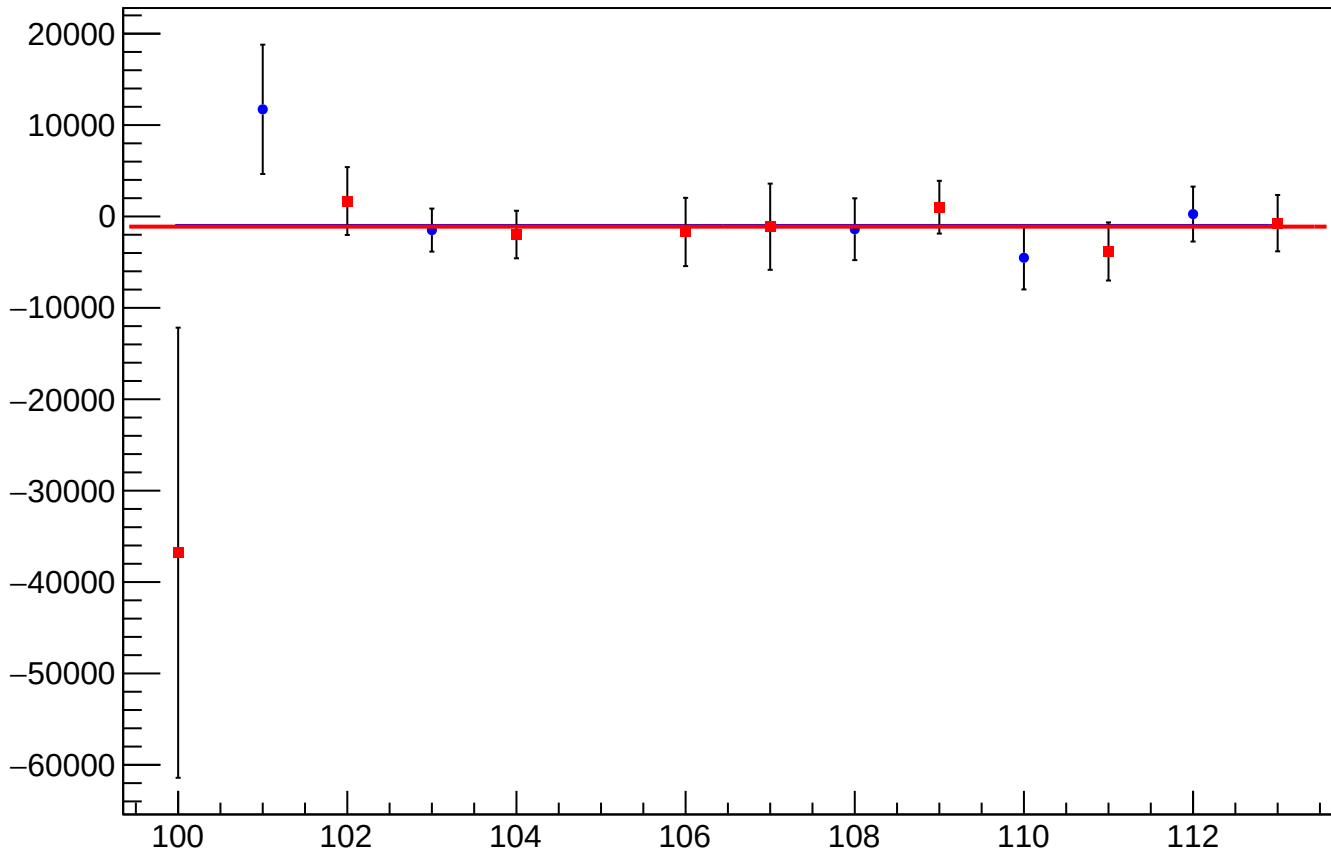
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2114078.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In: -1047.416+/-1440.598  $\chi^2$ /NDF: 4.5/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1112.174+/-1228.185  $\chi^2$ /NDF: 4.1/7

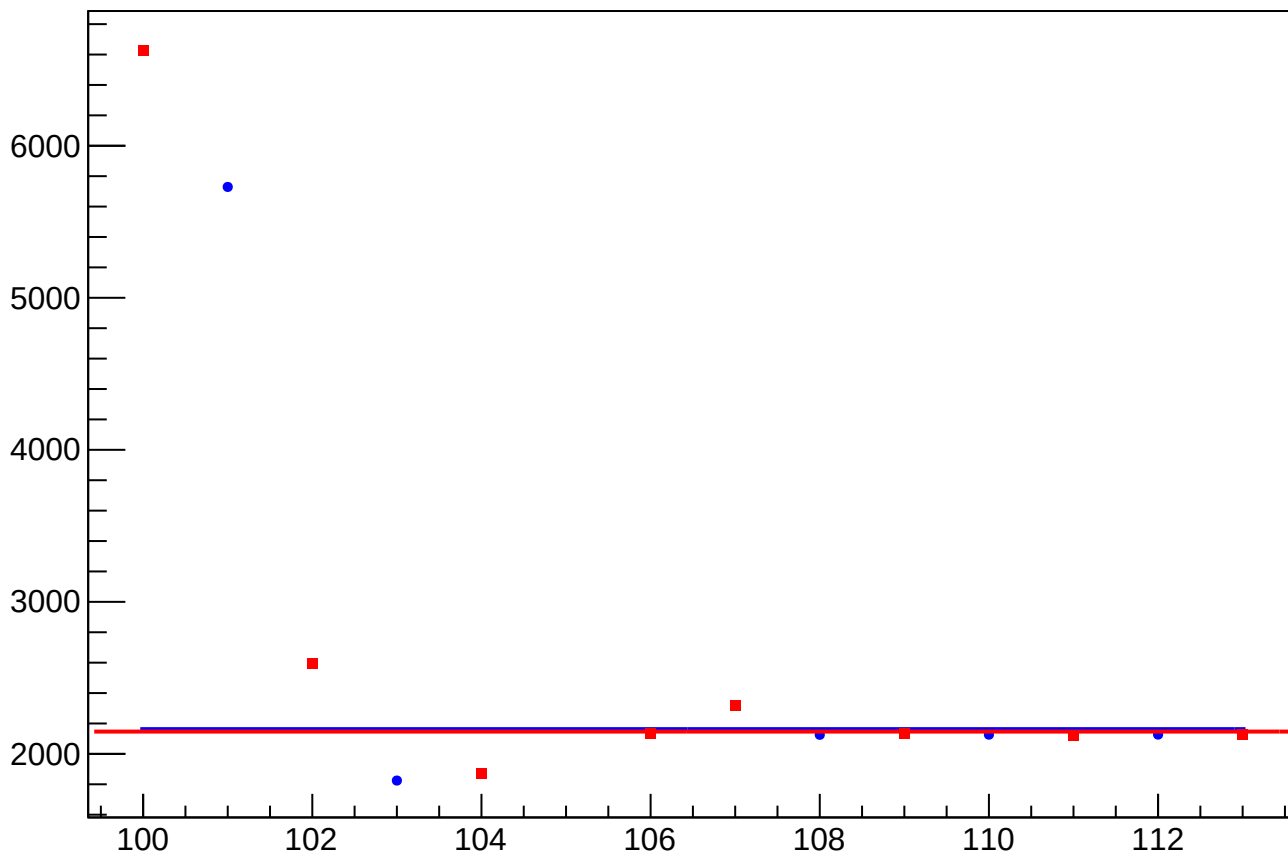
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1084.917+/-934.624  $\chi^2$ /NDF: 8.6/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 2162.730+/-1.019  $\chi^2/\text{NDF}$ : 550219.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2146.738+/-0.868  $\chi^2/\text{NDF}$ : 120234.9/7

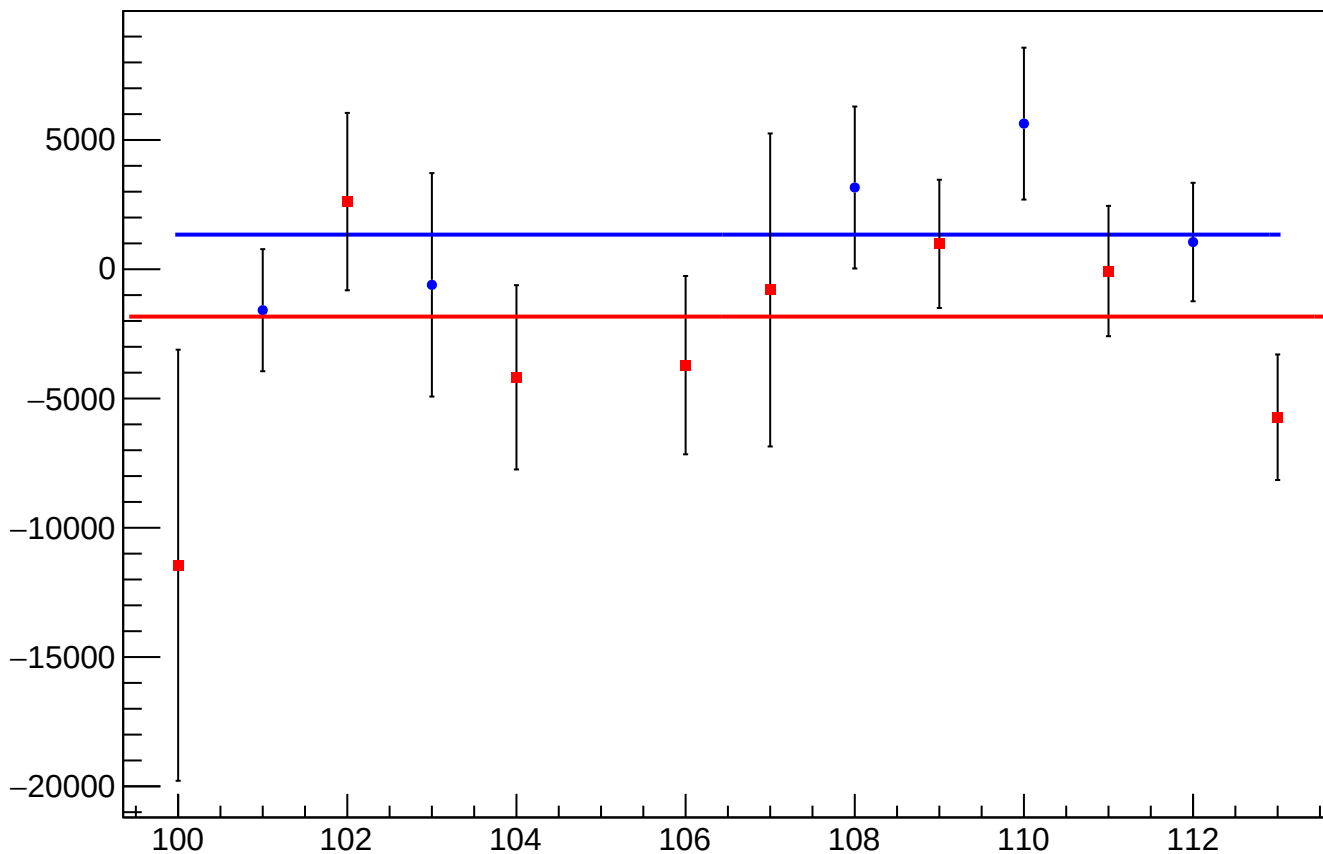
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2153.469+/-0.661  $\chi^2/\text{NDF}$ : 670597.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_reg\_correction\_mean vs Slug



Right In: 1339.422+/-1248.707  $\chi^2/\text{NDF}$ : 4.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1831.690+/-1133.104  $\chi^2/\text{NDF}$ : 8.1/7

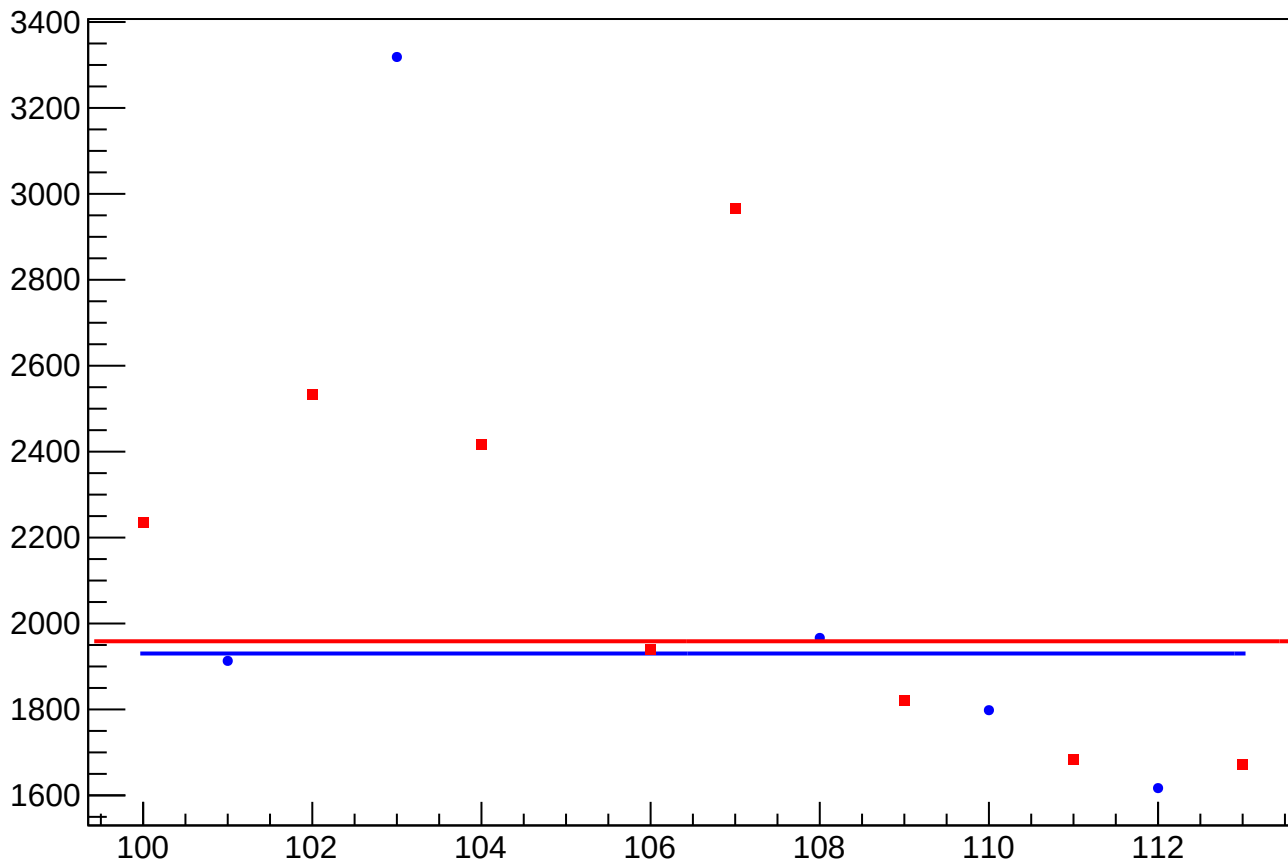
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -399.685+/-839.126  $\chi^2/\text{NDF}$ : 15.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_reg\_correction\_rms vs Slug



Right In: 1930.185 $\pm$ 0.883  $\chi^2$ /NDF: 248275.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1958.668 $\pm$ 0.801  $\chi^2$ /NDF: 204997.2/7

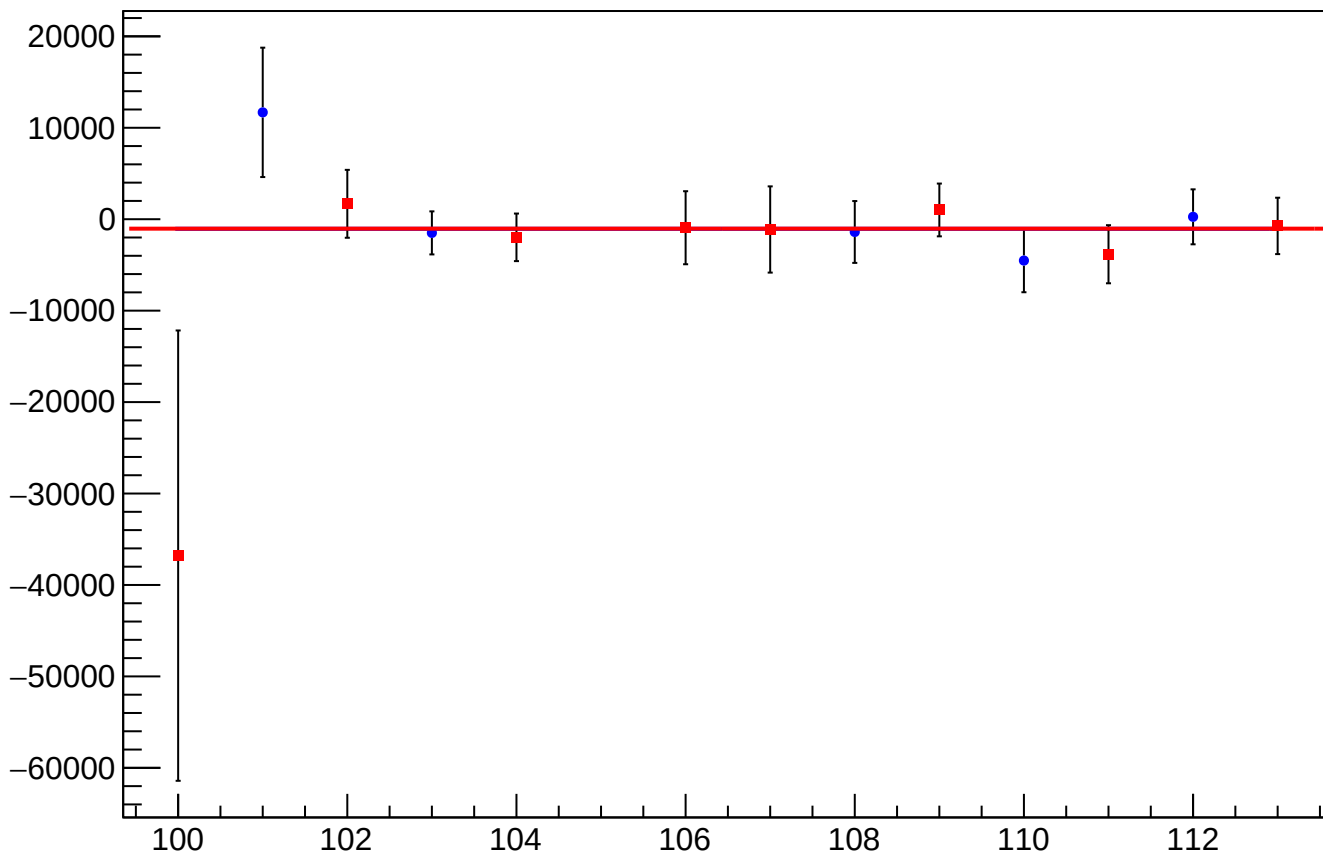
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1945.806 $\pm$ 0.593  $\chi^2$ /NDF: 453843.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In: -1049.971+/-1440.599  $\chi^2$ /NDF: 4.5/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1032.553+/-1236.591  $\chi^2$ /NDF: 4.1/7

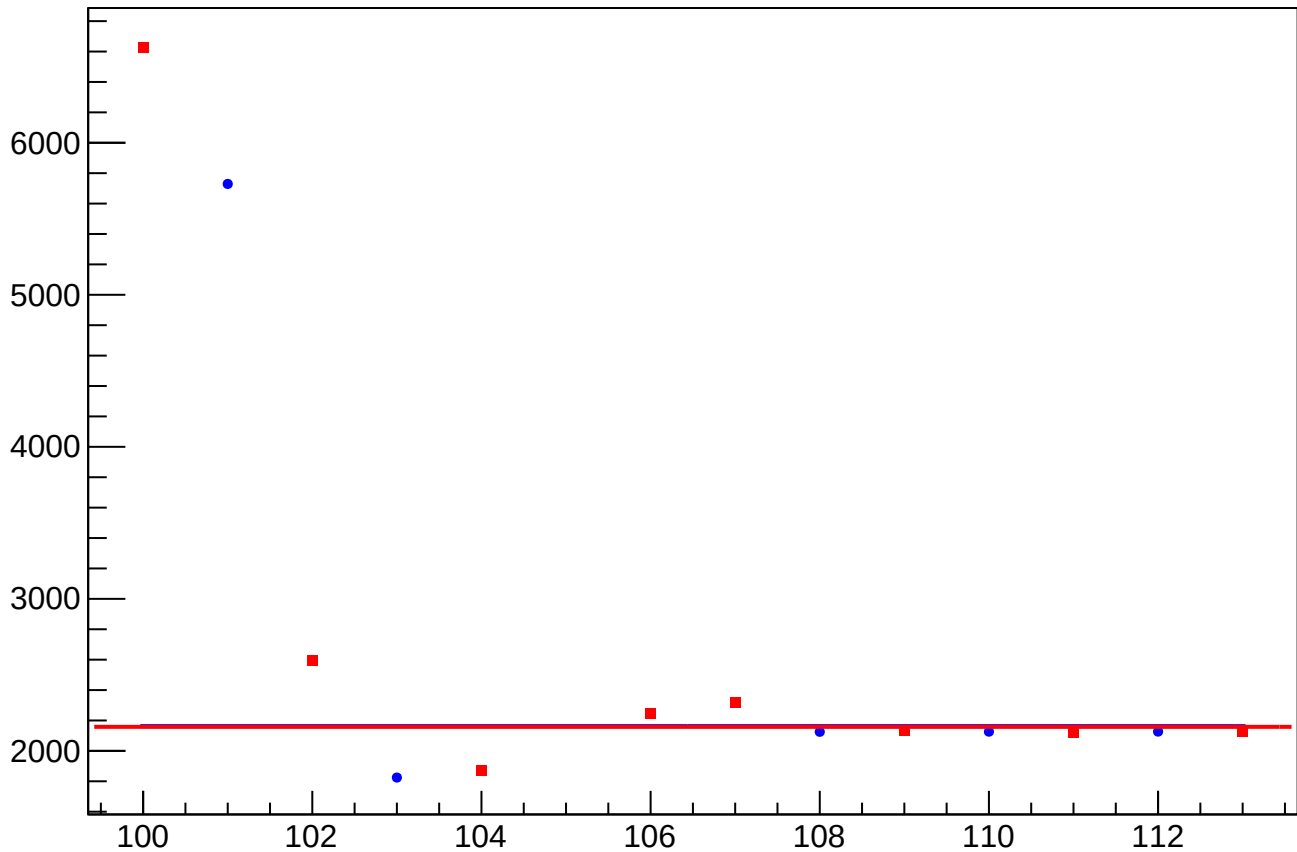
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1039.943+/-938.313  $\chi^2$ /NDF: 8.5/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 2162.730+/-1.019  $\chi^2/\text{NDF}$ : 550219.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2158.120+/-0.874  $\chi^2/\text{NDF}$ : 121350.2/7

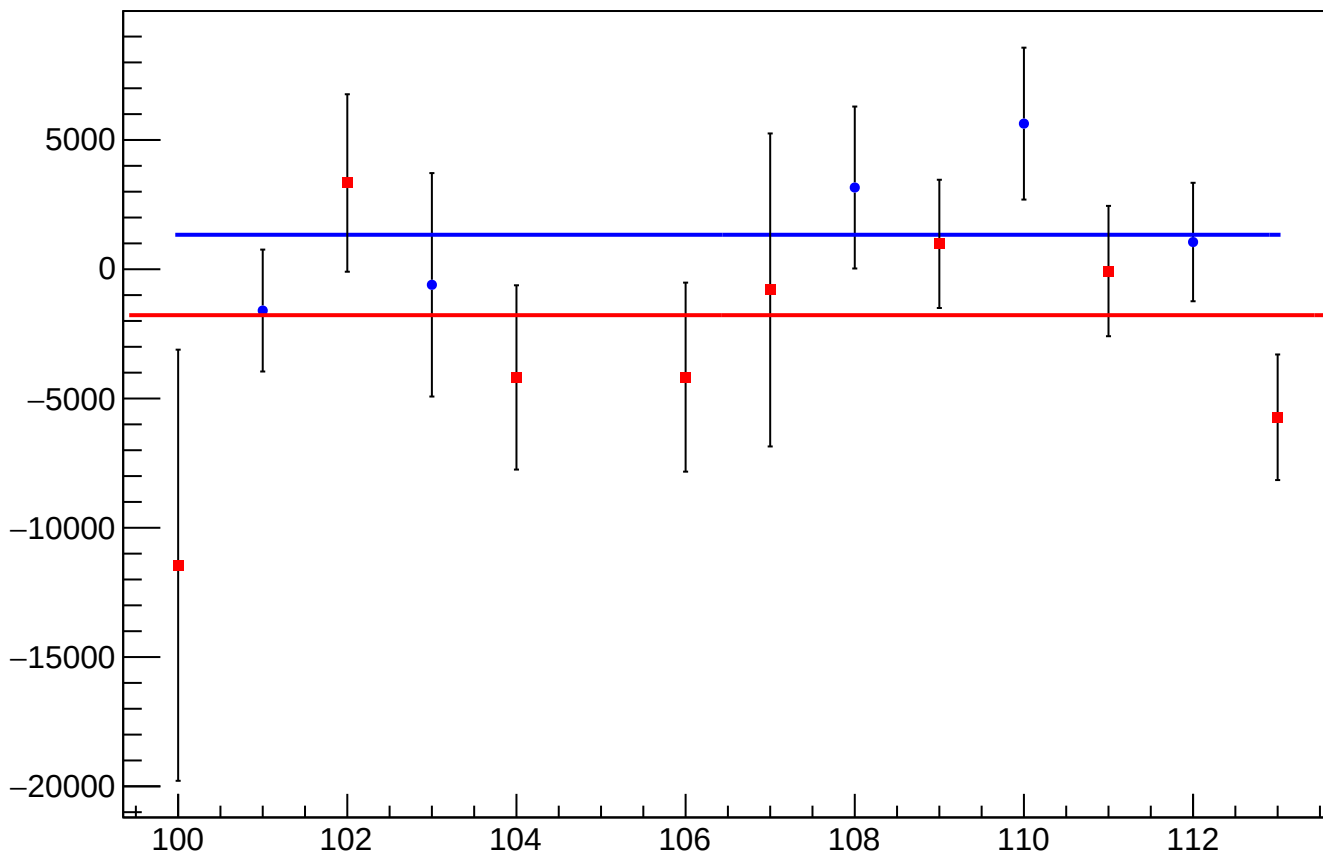
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2160.076+/-0.663  $\chi^2/\text{NDF}$ : 671581.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_cor\_correction\_mean vs Slug



Right In: 1333.479+/-1248.236  $\chi^2/\text{NDF}$ : 4.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1776.312+/-1139.927  $\chi^2/\text{NDF}$ : 8.8/7

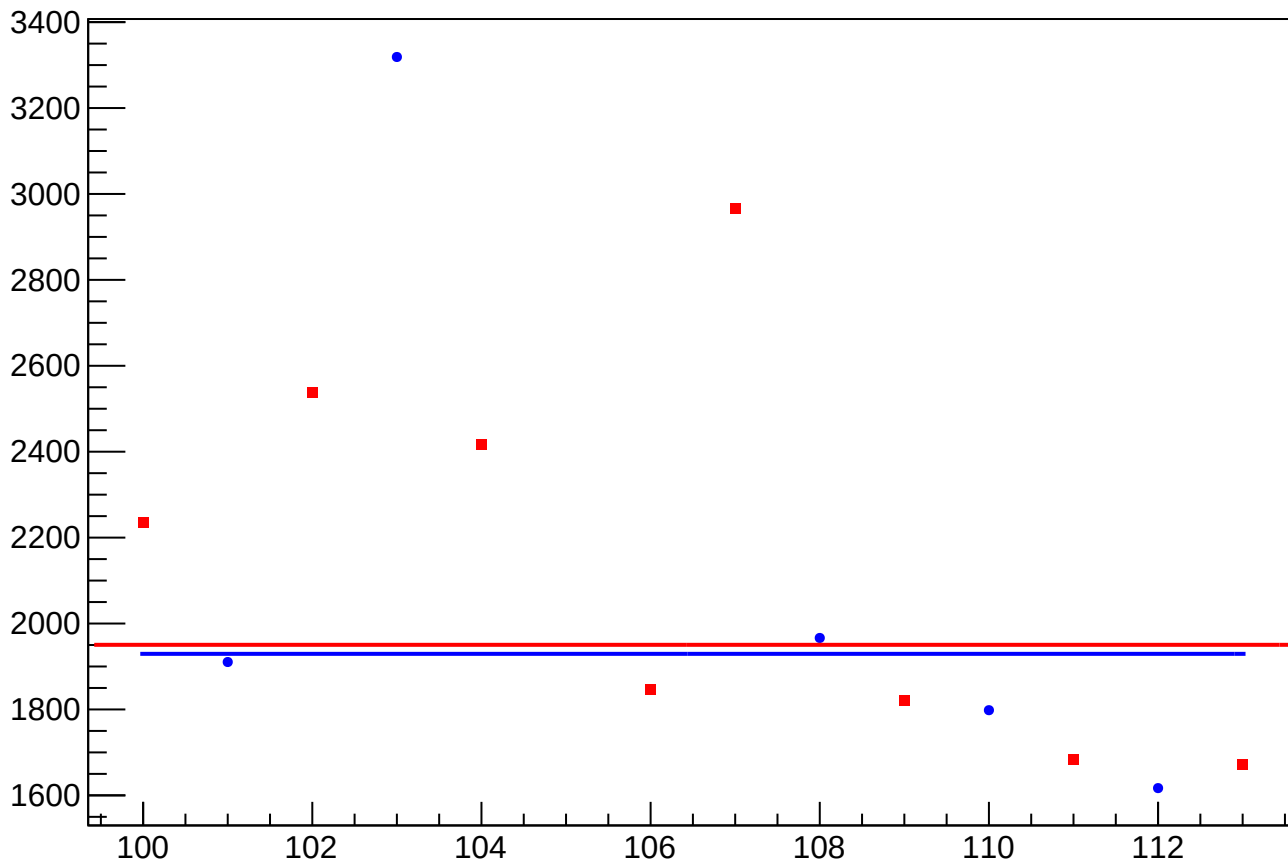
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -362.164+/-841.741  $\chi^2/\text{NDF}$ : 16.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_cor\_correction\_rms vs Slug



Right In: 1929.433 $\pm$ 0.883  $\chi^2$ /NDF: 248361.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1950.437 $\pm$ 0.806  $\chi^2$ /NDF: 207731.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

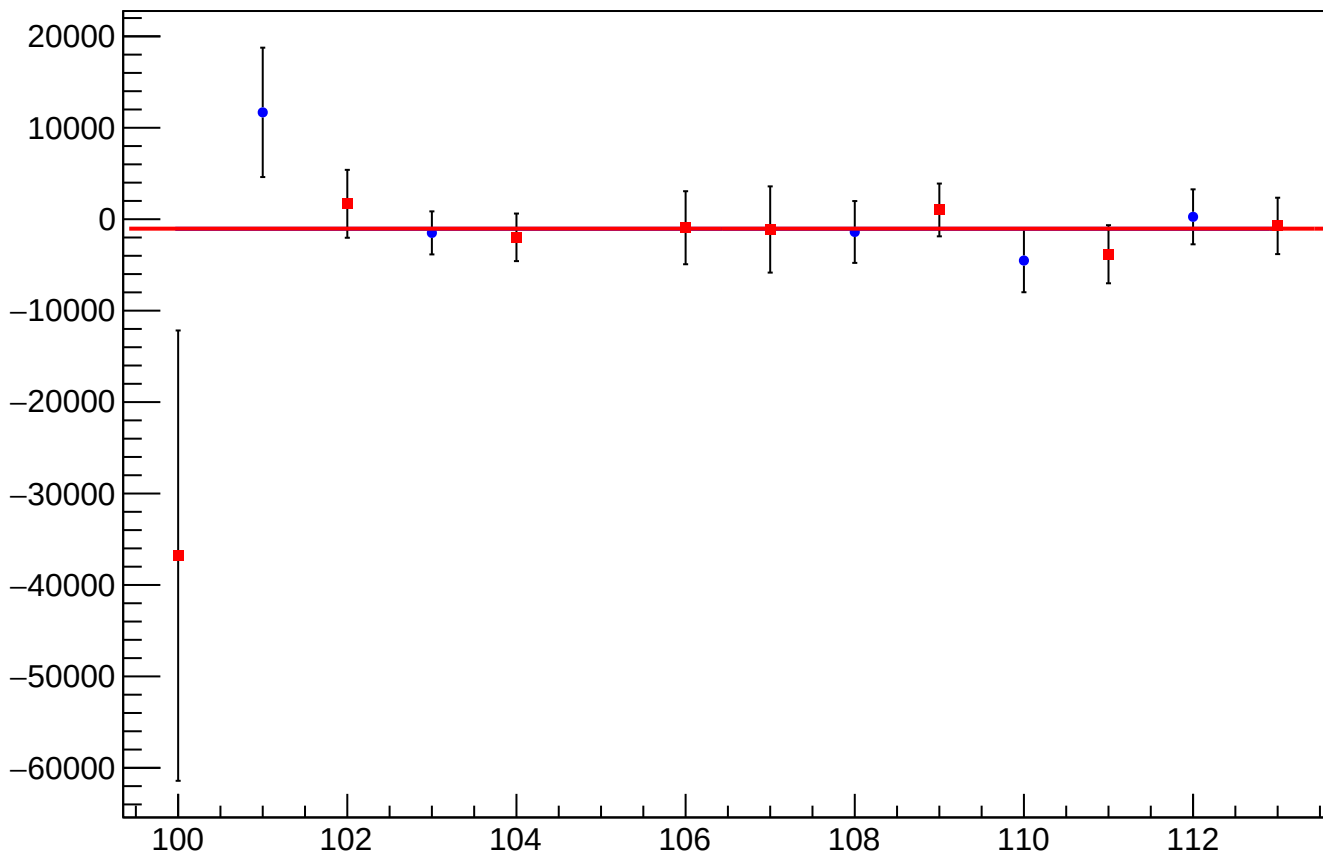
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1940.885 $\pm$ 0.595  $\chi^2$ /NDF: 456402.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In: -1049.971+/-1440.599  $\chi^2$ /NDF: 4.5/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1032.553+/-1236.591  $\chi^2$ /NDF: 4.1/7

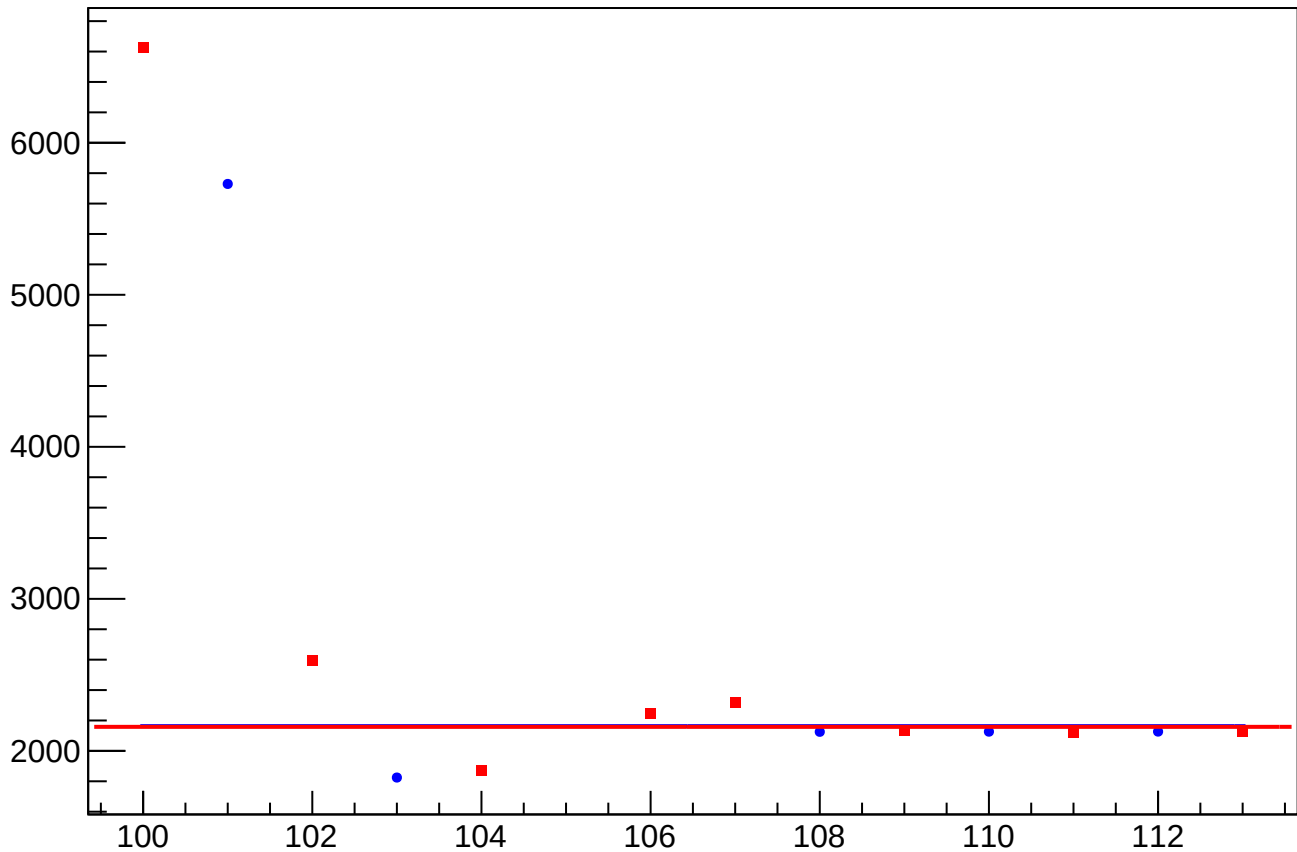
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1039.943+/-938.313  $\chi^2$ /NDF: 8.5/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 2162.730+/-1.019  $\chi^2/\text{NDF}$ : 550219.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2158.120+/-0.874  $\chi^2/\text{NDF}$ : 121350.2/7

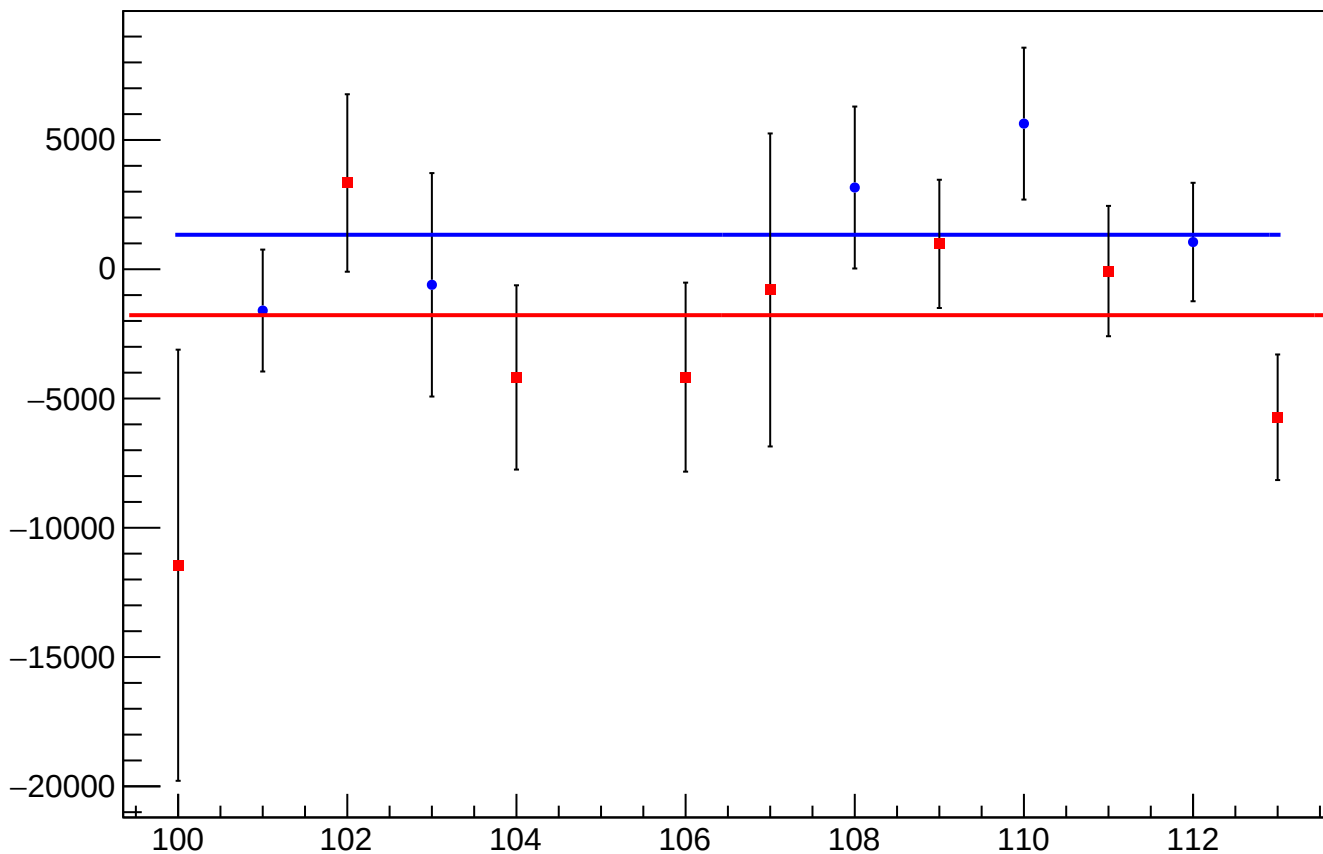
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2160.076+/-0.663  $\chi^2/\text{NDF}$ : 671581.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 1333.479+/-1248.236  $\chi^2/\text{NDF}$ : 4.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1776.312+/-1139.927  $\chi^2/\text{NDF}$ : 8.8/7

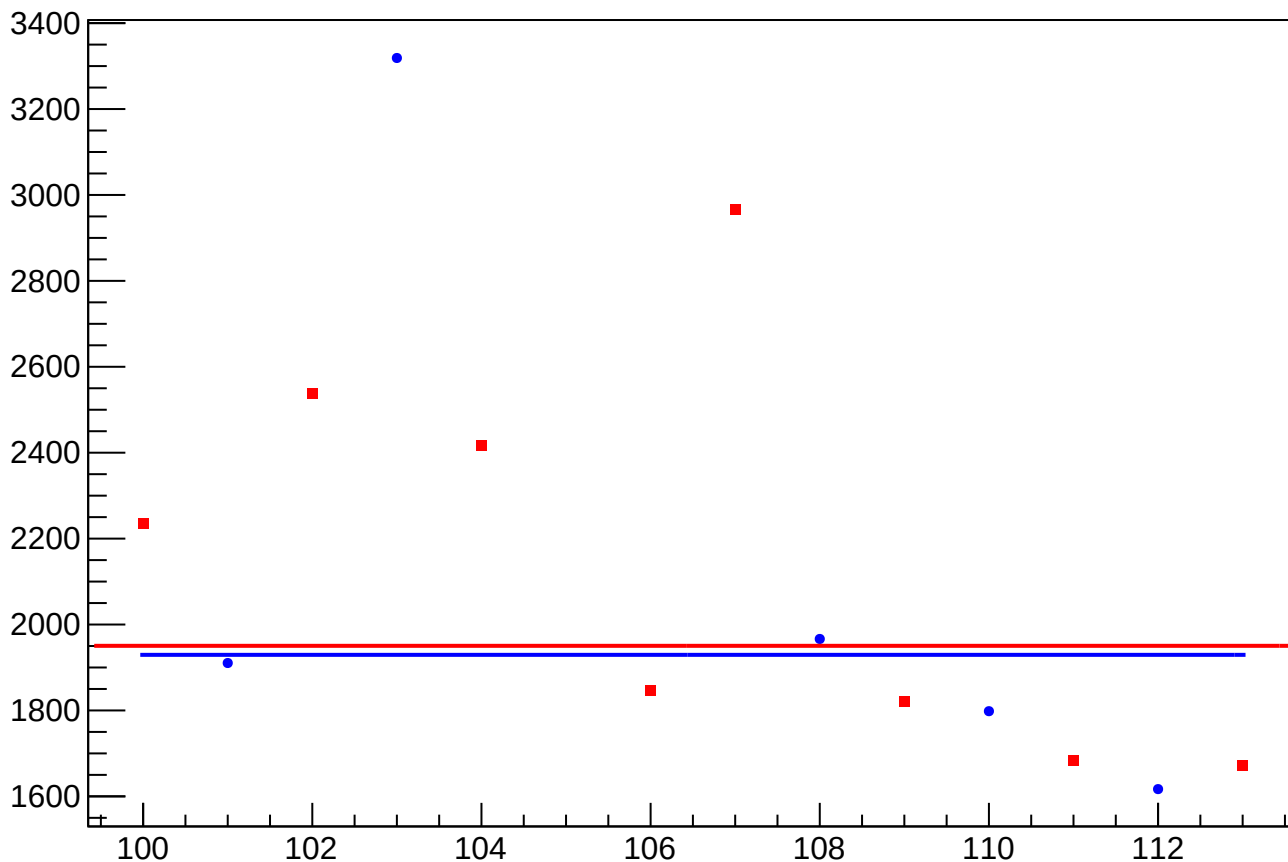
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -362.164+/-841.741  $\chi^2/\text{NDF}$ : 16.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1929.433+/-0.883  $\chi^2/\text{NDF}$ : 248361.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1950.437+/-0.806  $\chi^2/\text{NDF}$ : 207731.8/7

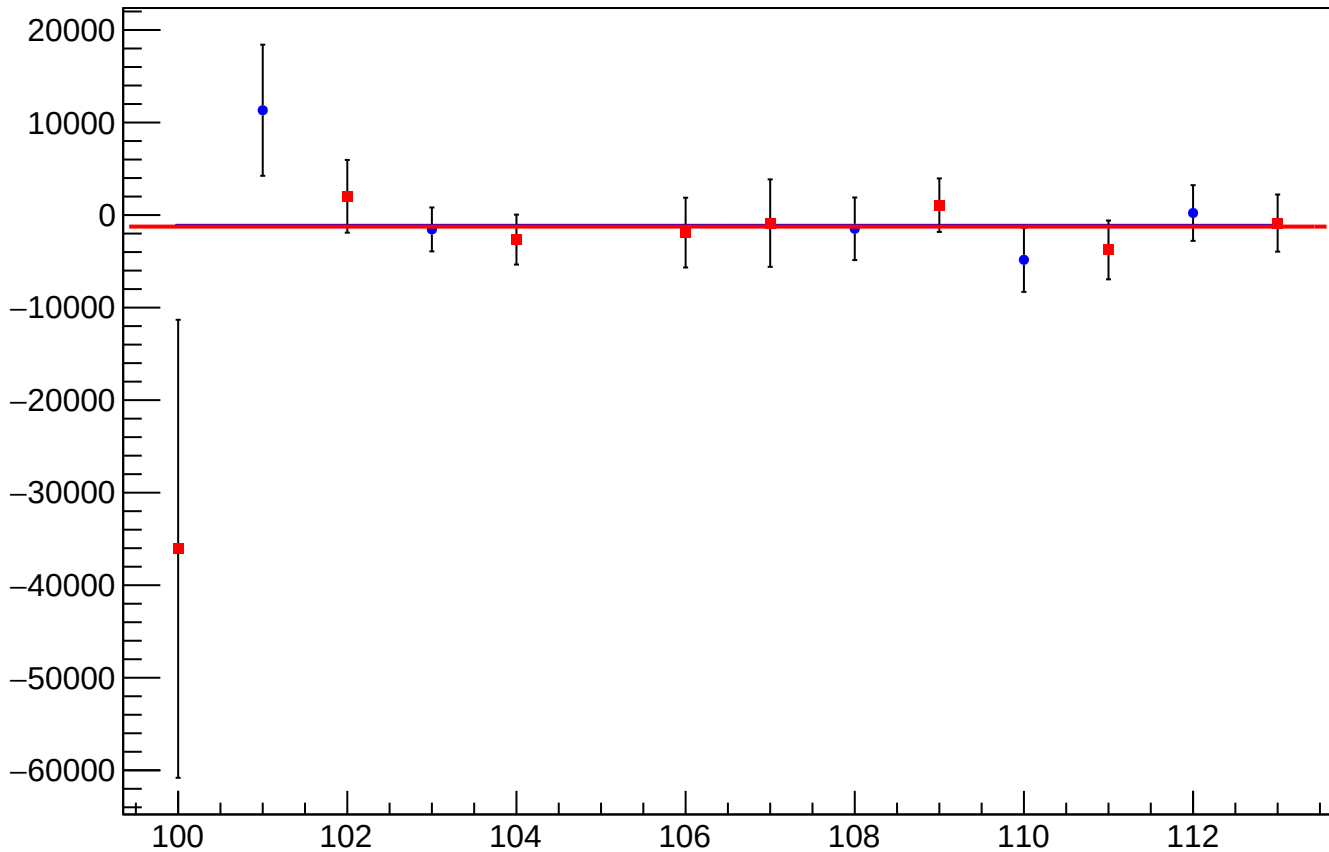
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1940.885+/-0.595  $\chi^2/\text{NDF}$ : 456402.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In: -1163.384+/-1445.403  $\chi^2$ /NDF: 4.5/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1245.344+/-1247.901  $\chi^2$ /NDF: 4.3/7

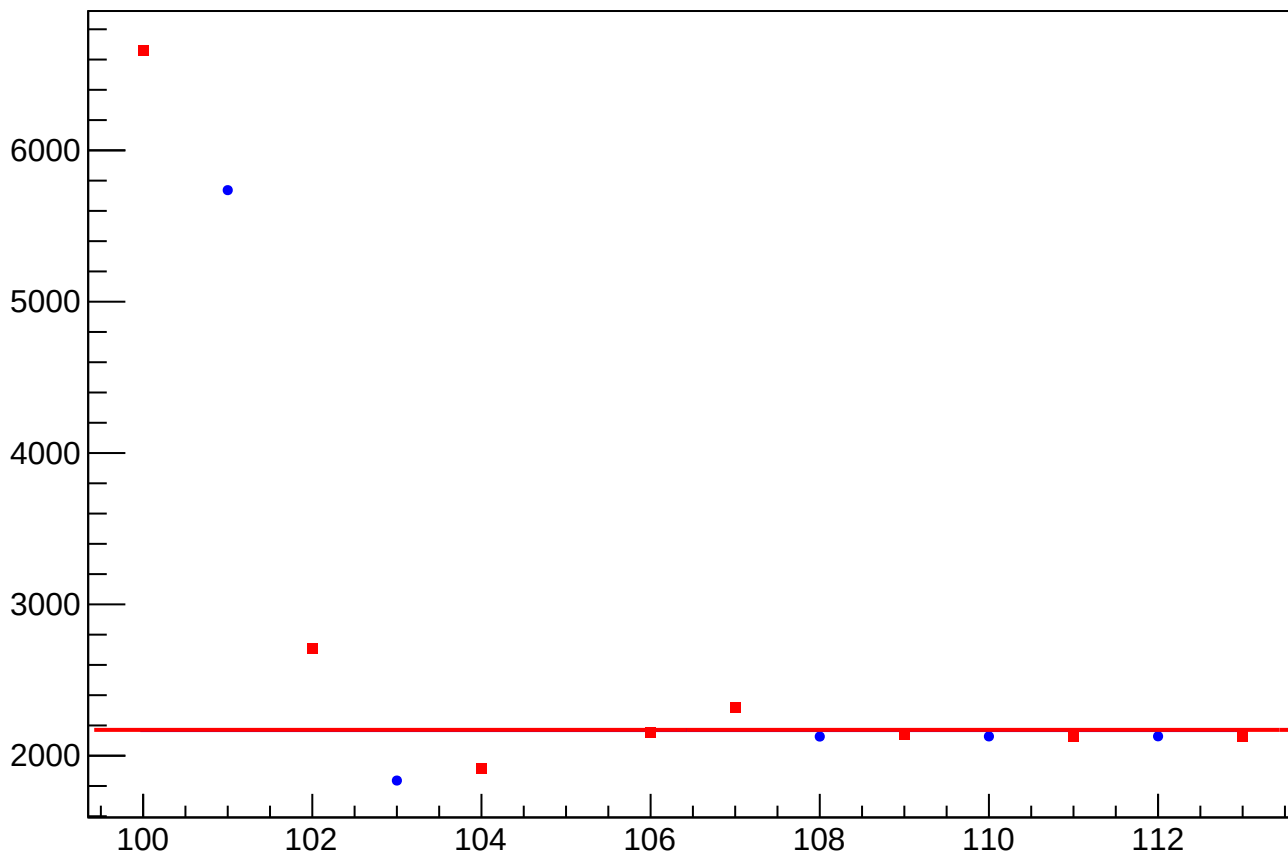
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1210.342+/-944.570  $\chi^2$ /NDF: 8.7/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 2169.566 $\pm$ 1.022  $\chi^2$ /NDF: 547643.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2170.738 $\pm$ 0.882  $\chi^2$ /NDF: 124763.2/7

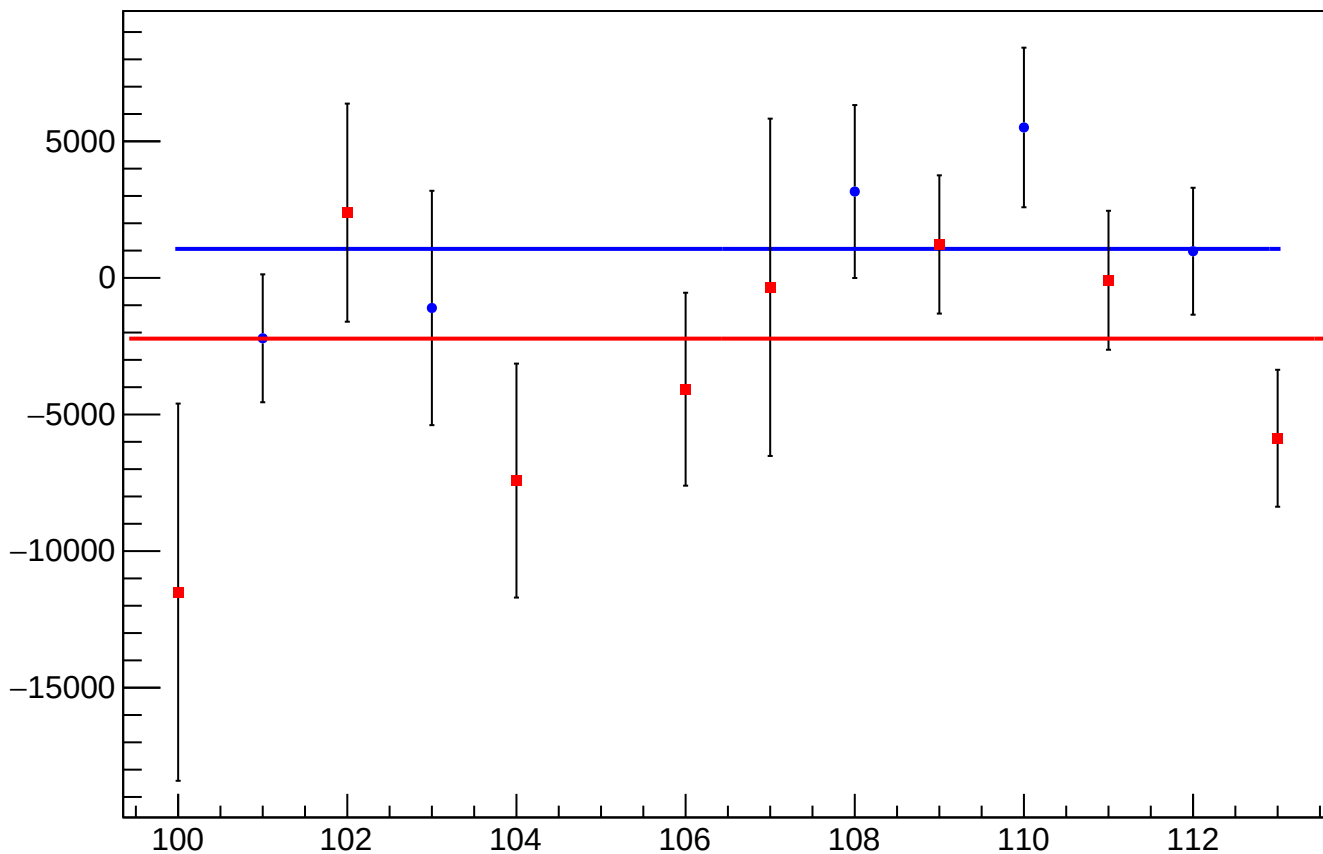
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2170.238 $\pm$ 0.668  $\chi^2$ /NDF: 672407.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_correction\_mean vs Slug



Right In: 1062.343 $\pm$ 1250.842  $\chi^2$ /NDF: 5.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2222.304 $\pm$ 1182.895  $\chi^2$ /NDF: 9.7/7

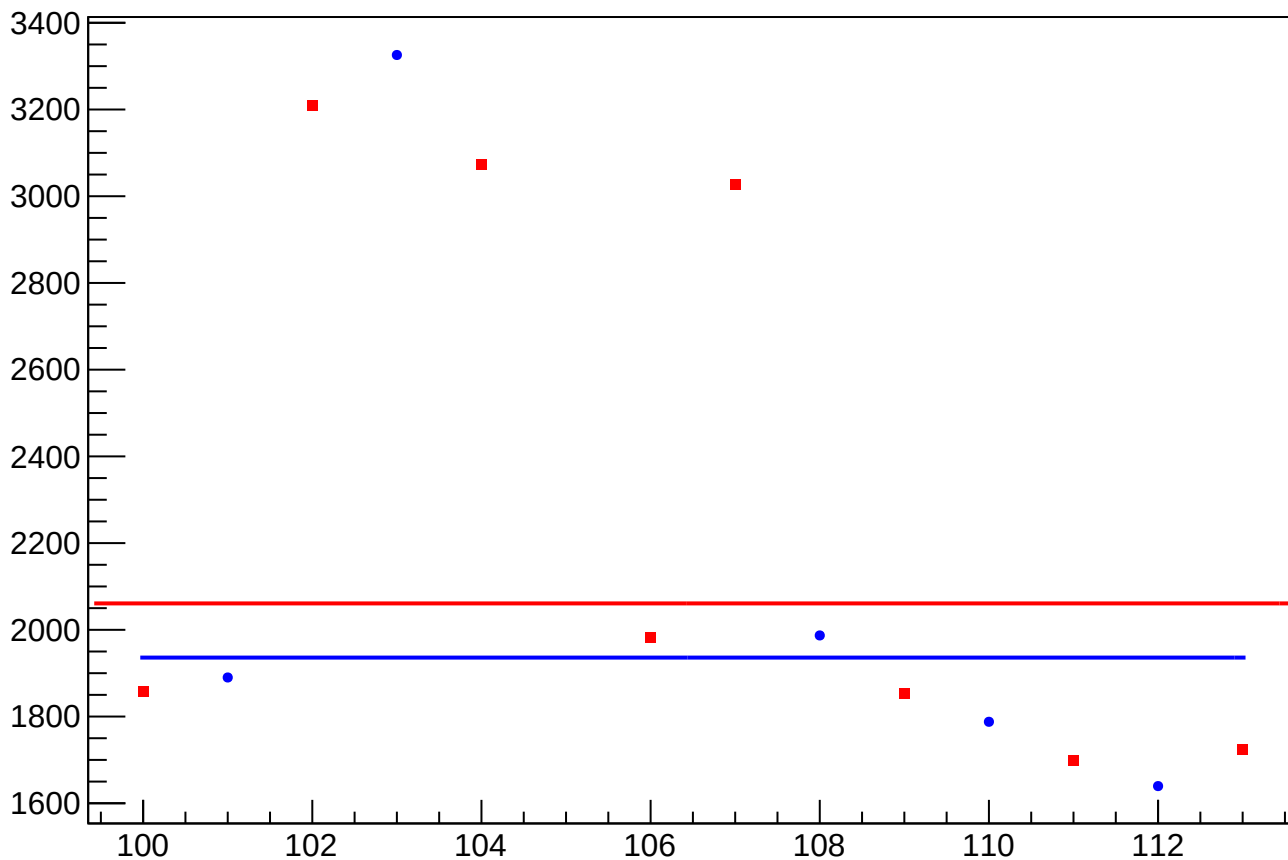
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -671.613 $\pm$ 859.450  $\chi^2$ /NDF: 18.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_correction\_rms vs Slug



Right In: 1935.976 $\pm$ 0.884  $\chi^2$ /NDF: 248969.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2060.927 $\pm$ 0.836  $\chi^2$ /NDF: 419215.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

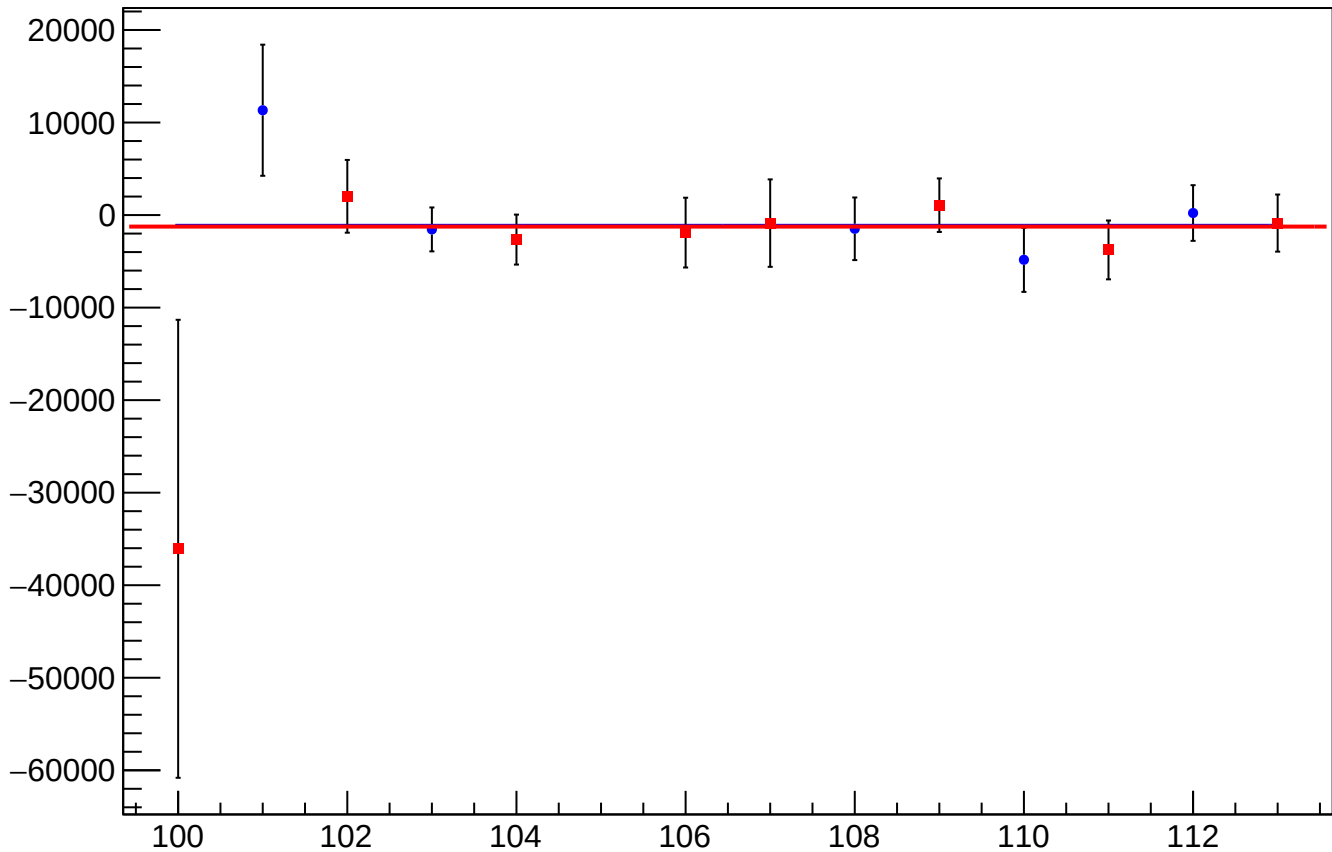
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2001.937 $\pm$ 0.608  $\chi^2$ /NDF: 678720.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In: -1163.384+/-1445.403  $\chi^2$ /NDF: 4.5/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1245.344+/-1247.901  $\chi^2$ /NDF: 4.3/7

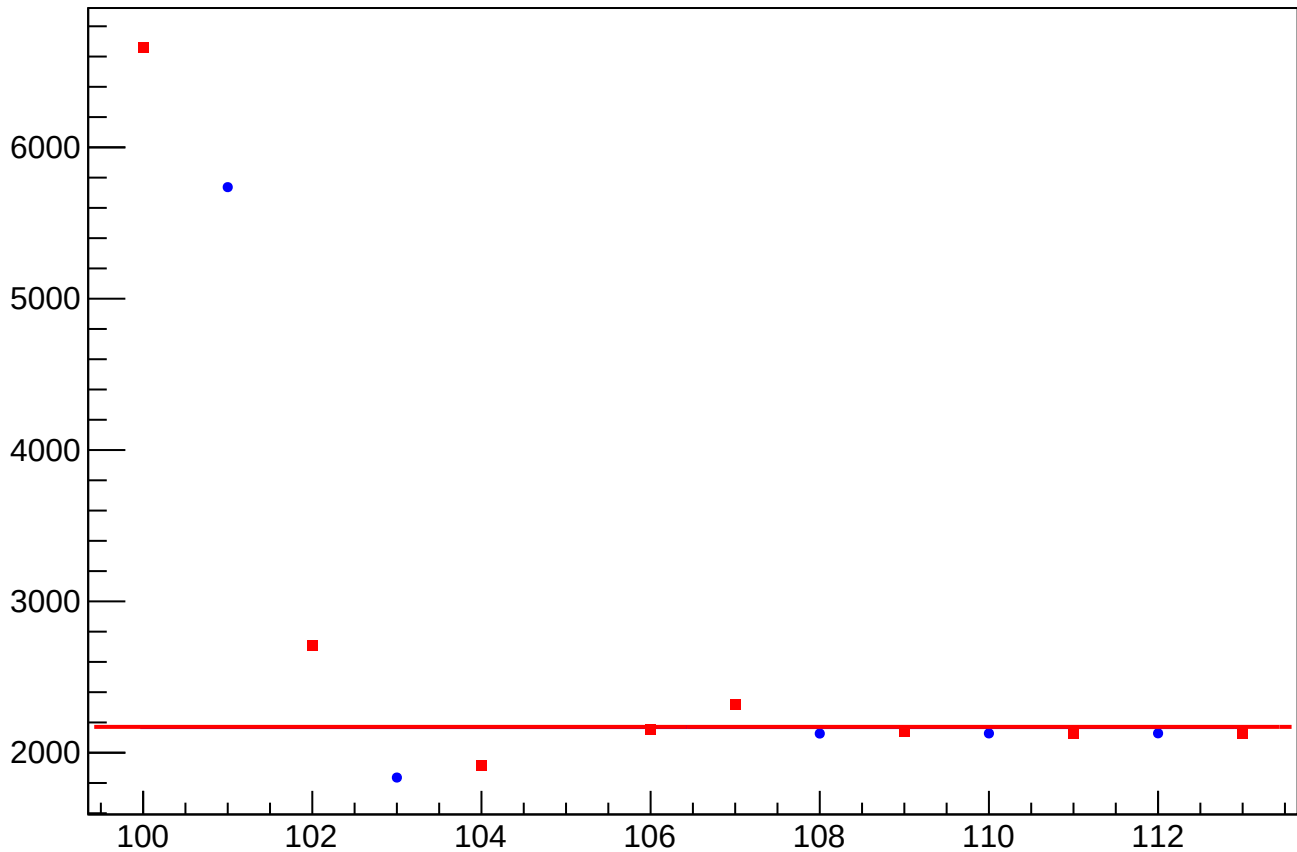
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1210.342+/-944.570  $\chi^2$ /NDF: 8.7/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 2169.565+/-1.022  $\chi^2/\text{NDF}$ : 547643.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

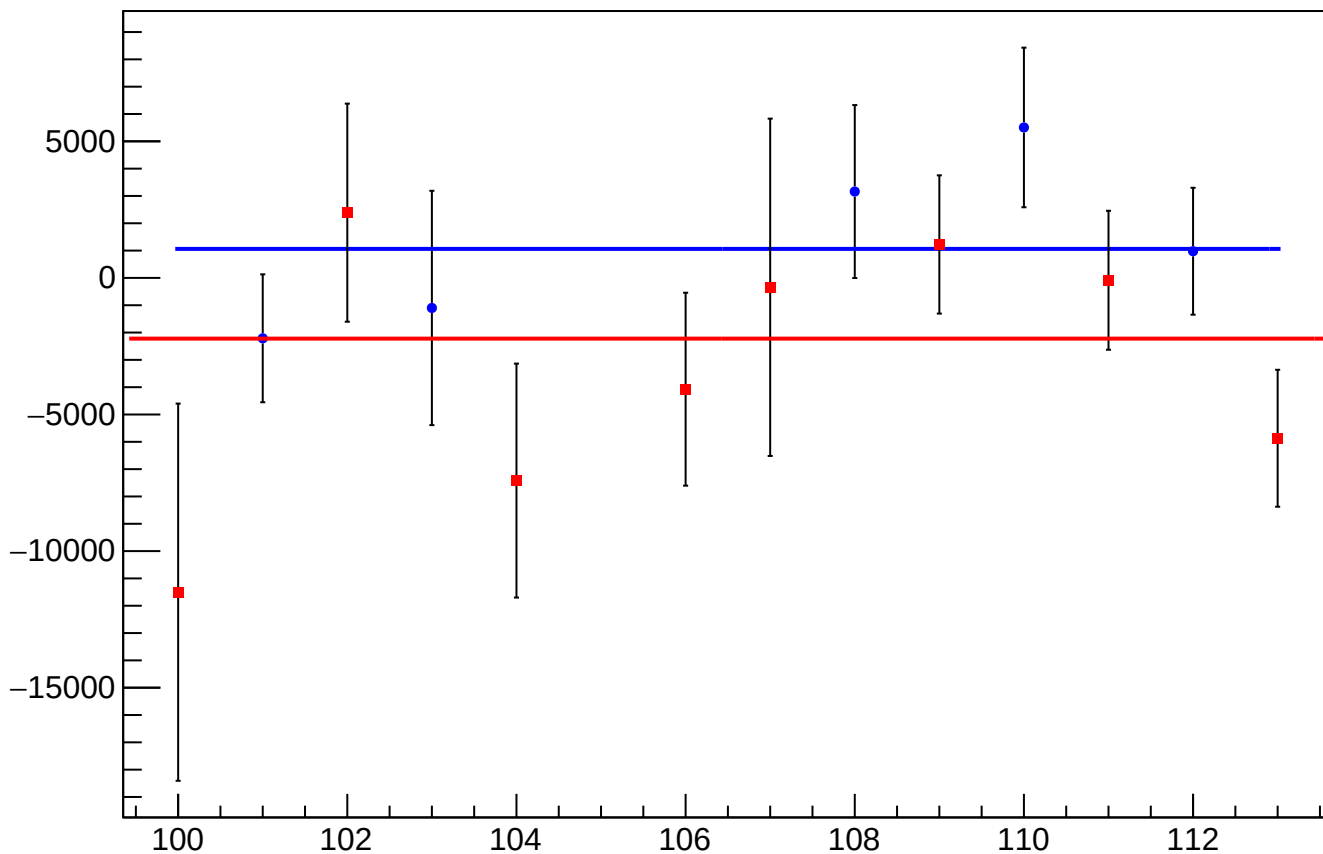
Right Out: 2170.738+/-0.882  $\chi^2/\text{NDF}$ : 124763.2/7

All: 2170.237+/-0.668  $\chi^2/\text{NDF}$ : 672407.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 1062.345+/-1250.840  $\chi^2/\text{NDF}$ : 5.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2222.299+/-1182.893  $\chi^2/\text{NDF}$ : 9.7/7

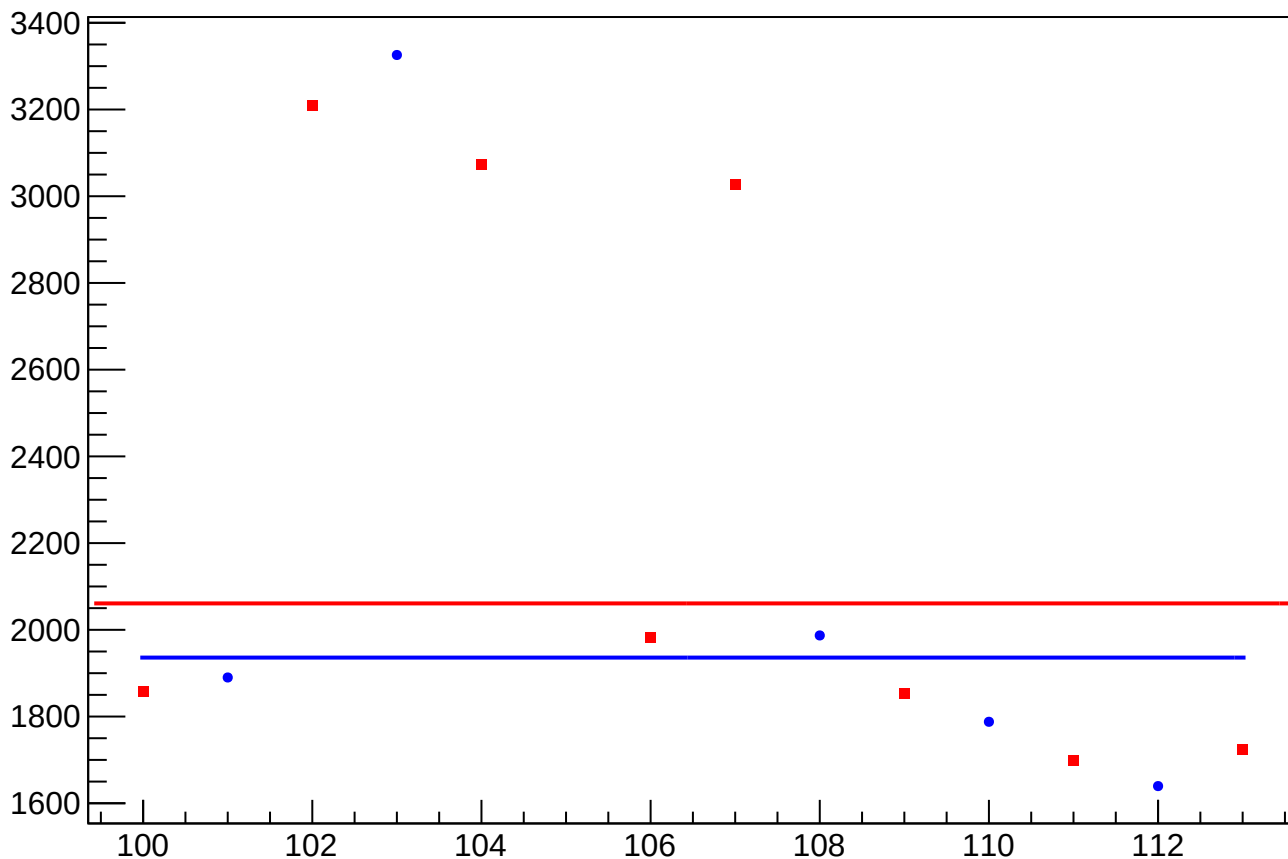
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -671.609+/-859.449  $\chi^2/\text{NDF}$ : 18.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1935.972 $\pm$ 0.884  $\chi^2$ /NDF: 248971.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2060.924 $\pm$ 0.836  $\chi^2$ /NDF: 419221.5/7

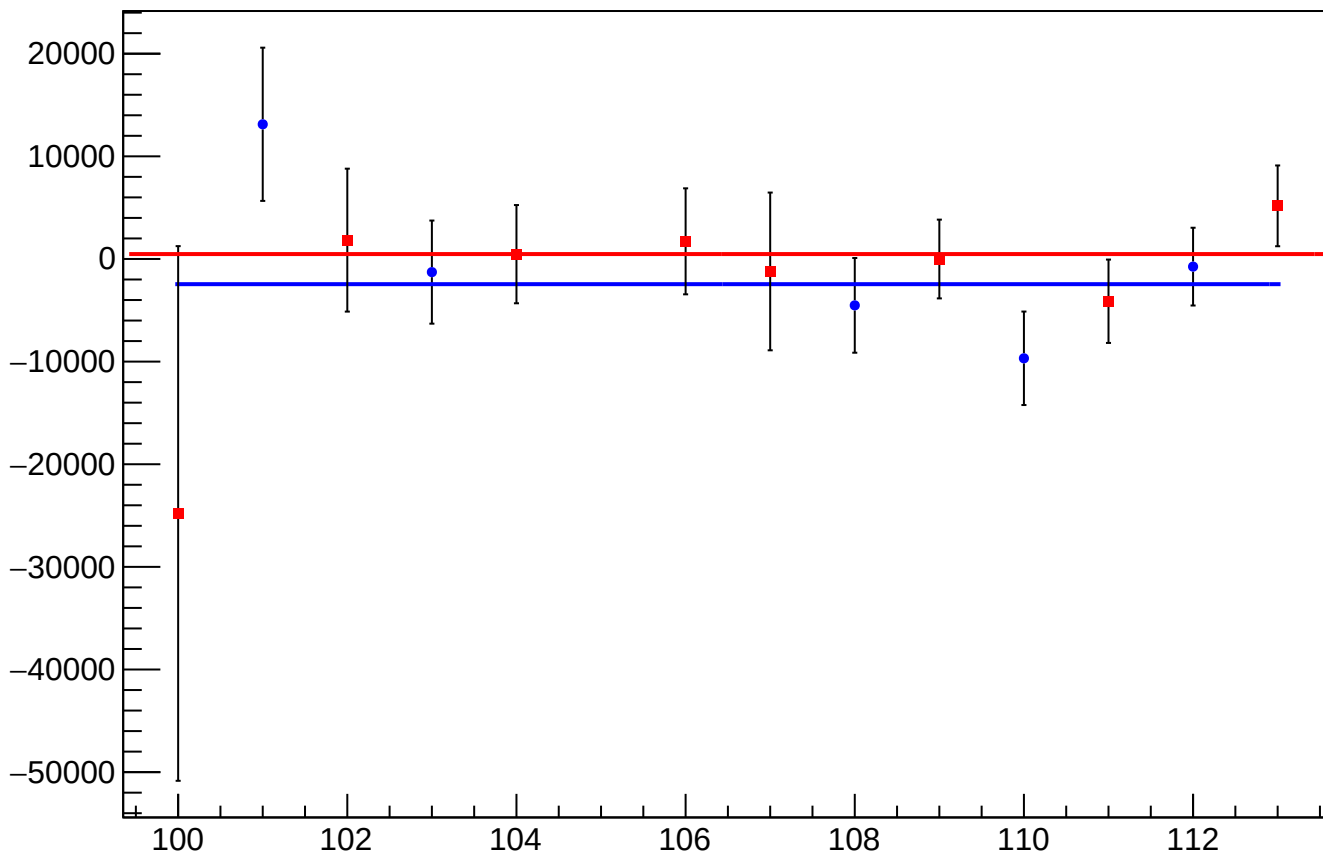
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2001.934 $\pm$ 0.608  $\chi^2$ /NDF: 678728.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In: -2455.117+/-2120.243  $\chi^2/\text{NDF}$ : 7.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 477.820+/-1786.528  $\chi^2/\text{NDF}$ : 3.8/7

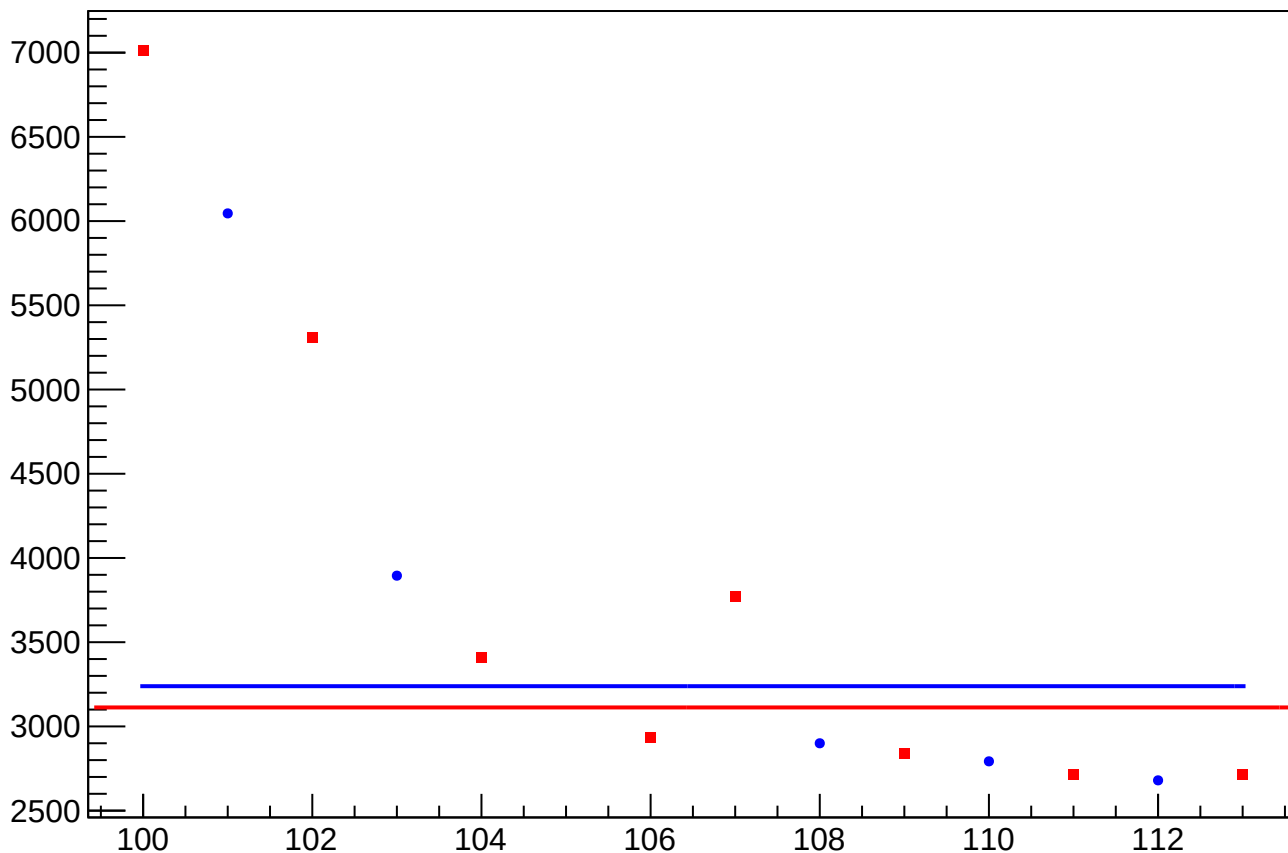
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -739.933+/-1366.198  $\chi^2/\text{NDF}$ : 12.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 3238.832 $\pm$ 1.499  $\chi^2$ /NDF: 390450.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3112.648 $\pm$ 1.263  $\chi^2$ /NDF: 318899.0/7

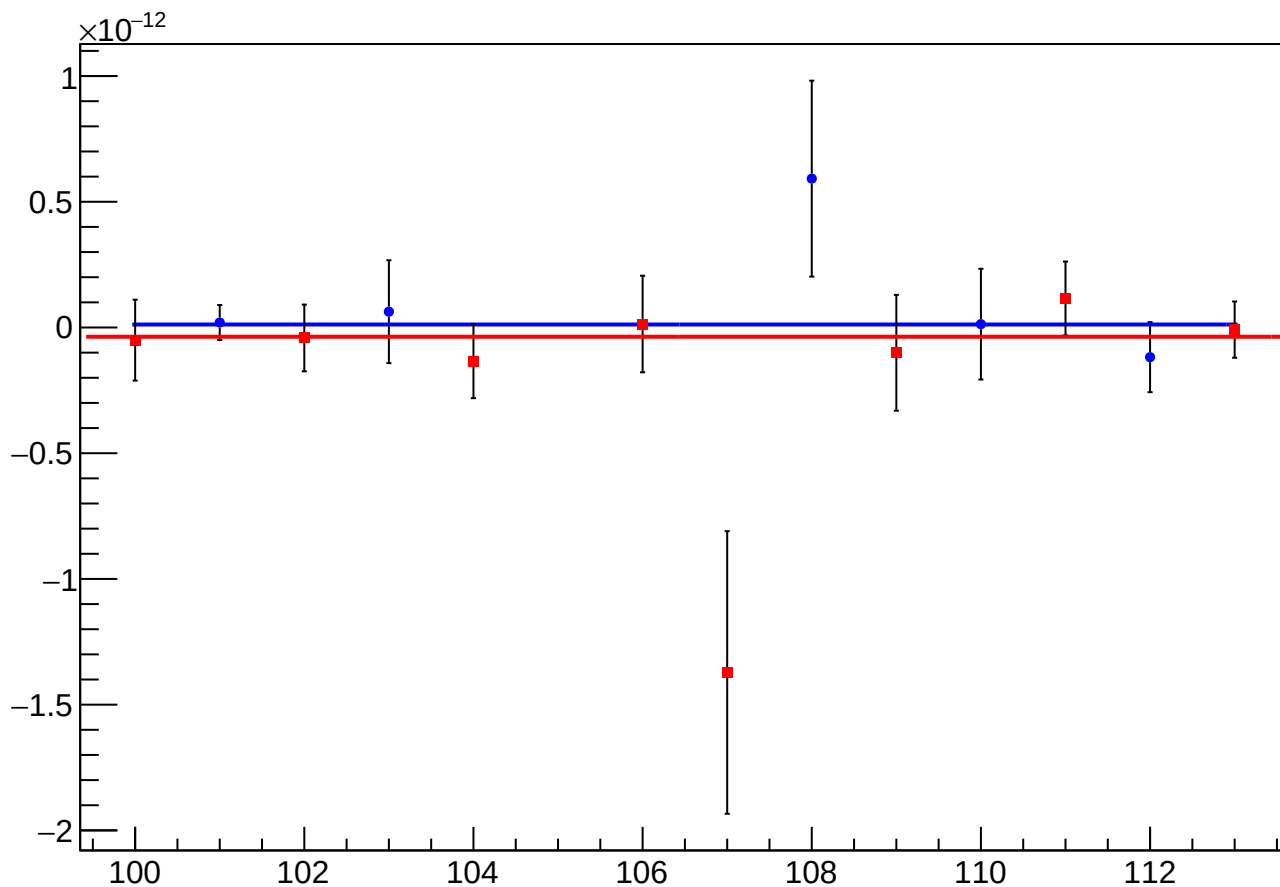
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3165.038 $\pm$ 0.966  $\chi^2$ /NDF: 713492.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.4/7

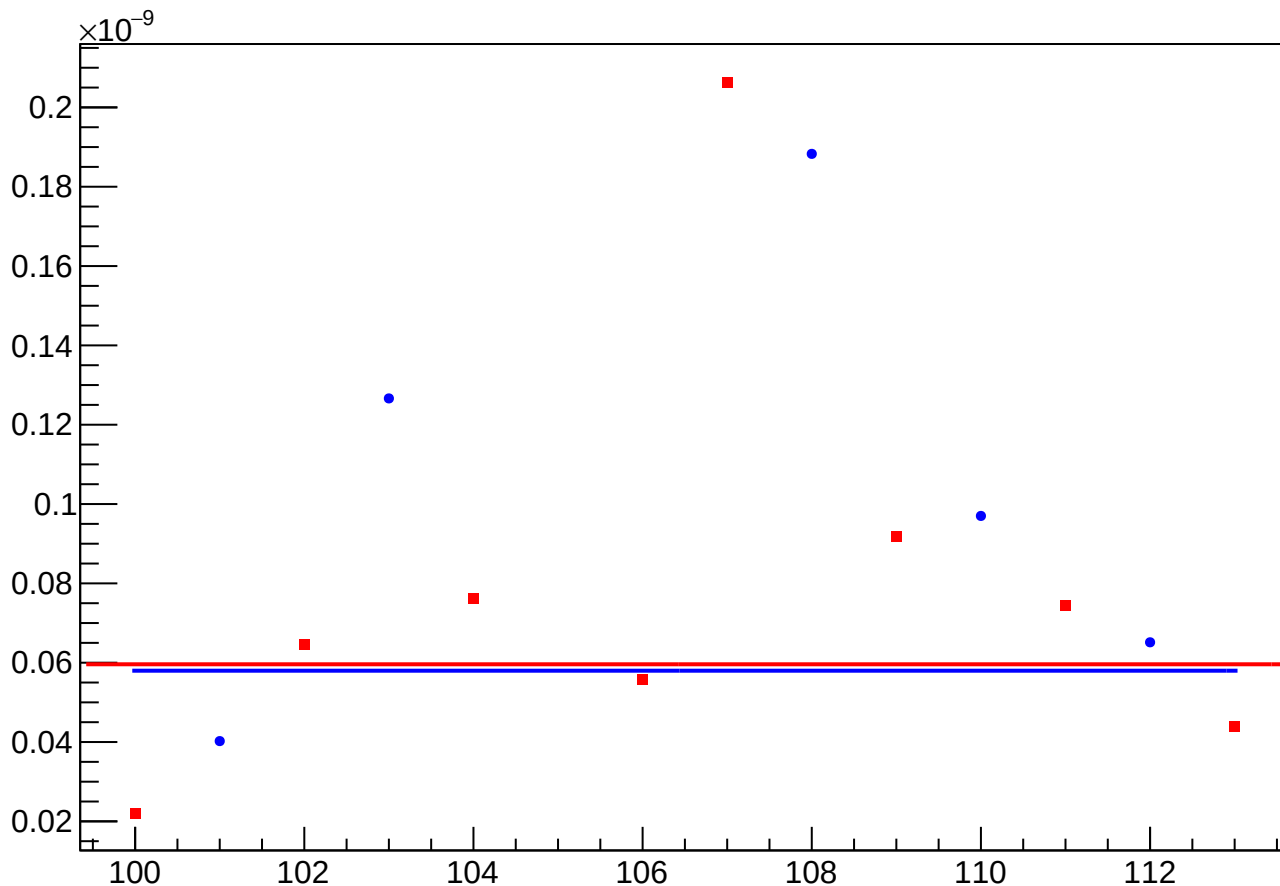
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 647350.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 372061.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

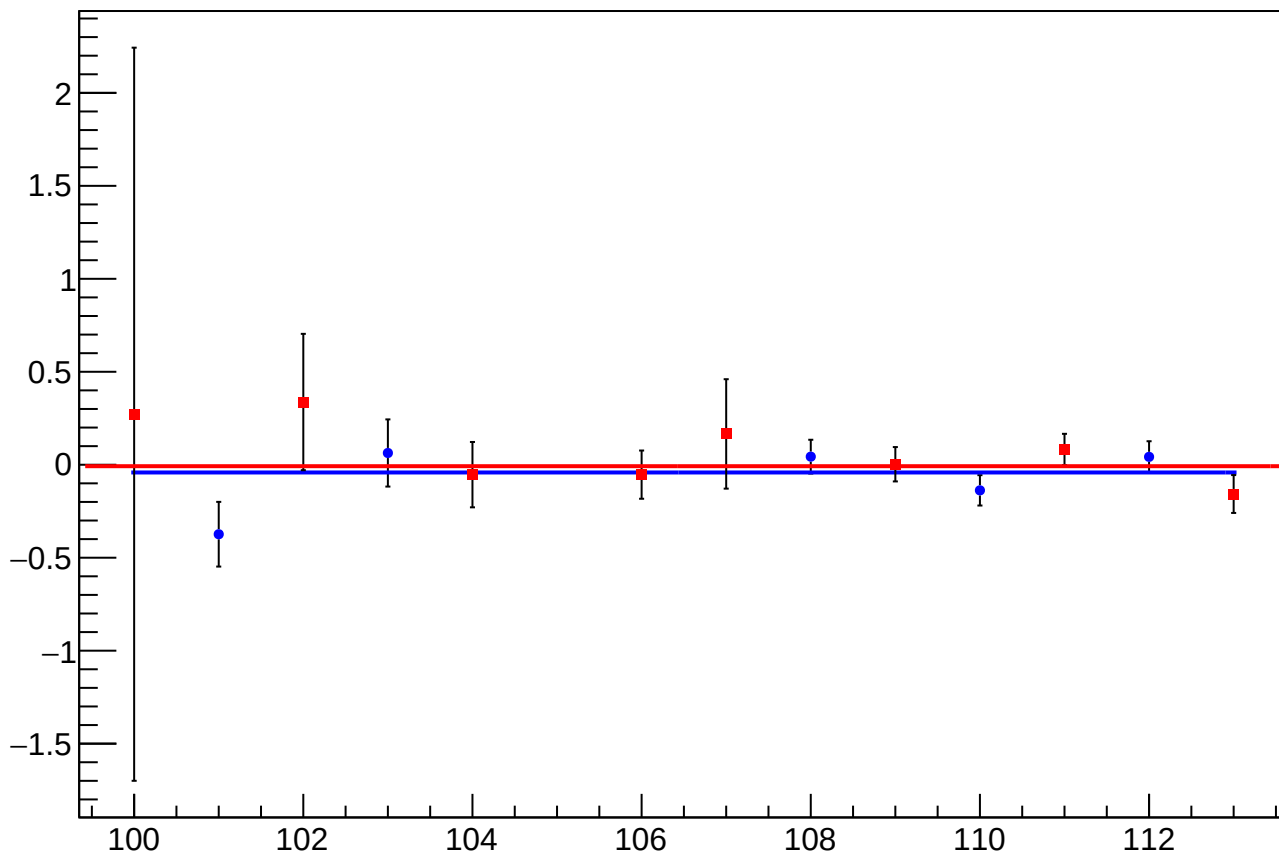
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1020233.7/12

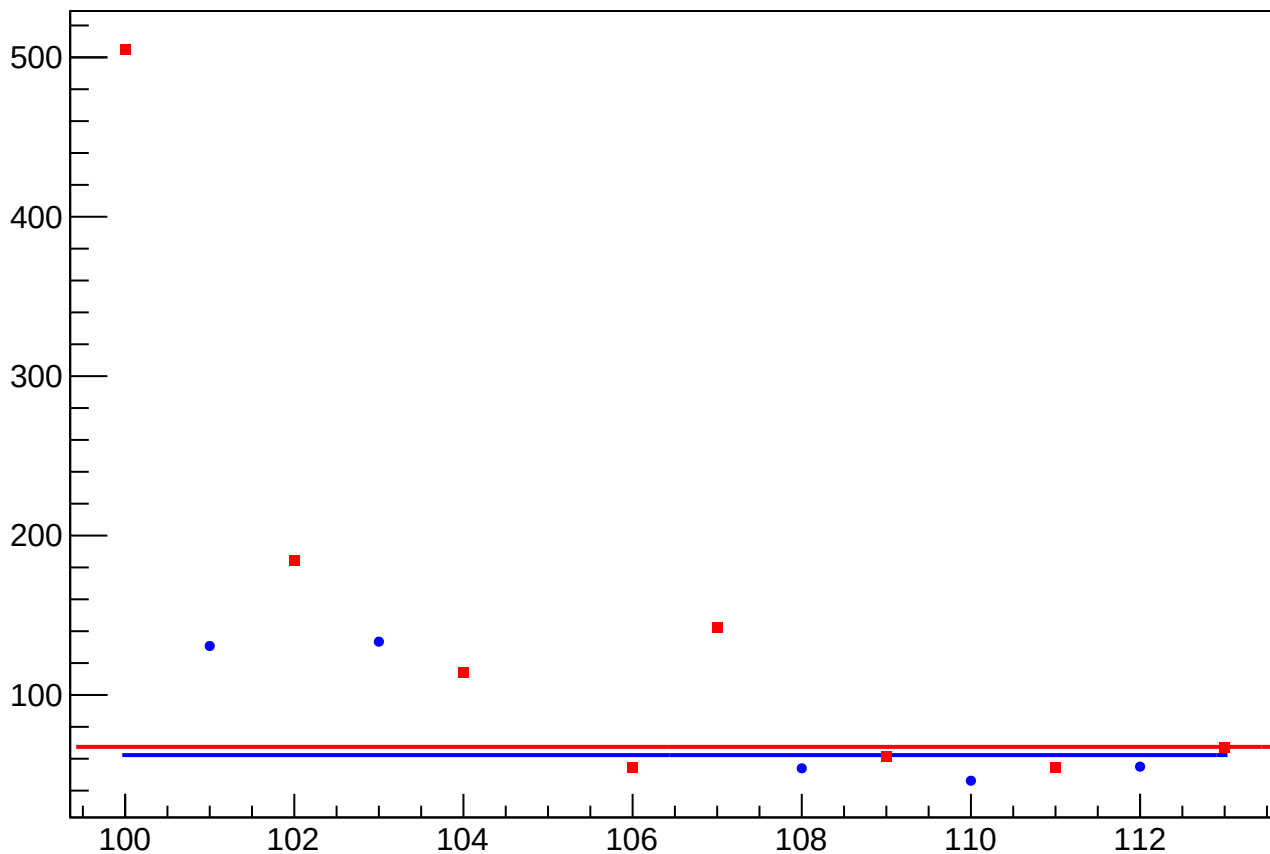
- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_dd\_at1lr\_dd\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



asym\_us\_dd\_at1lr\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 62.283+/-0.032  $\chi^2/\text{NDF}$ : 728683.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 67.439+/-0.033  $\chi^2/\text{NDF}$ : 648817.0/7

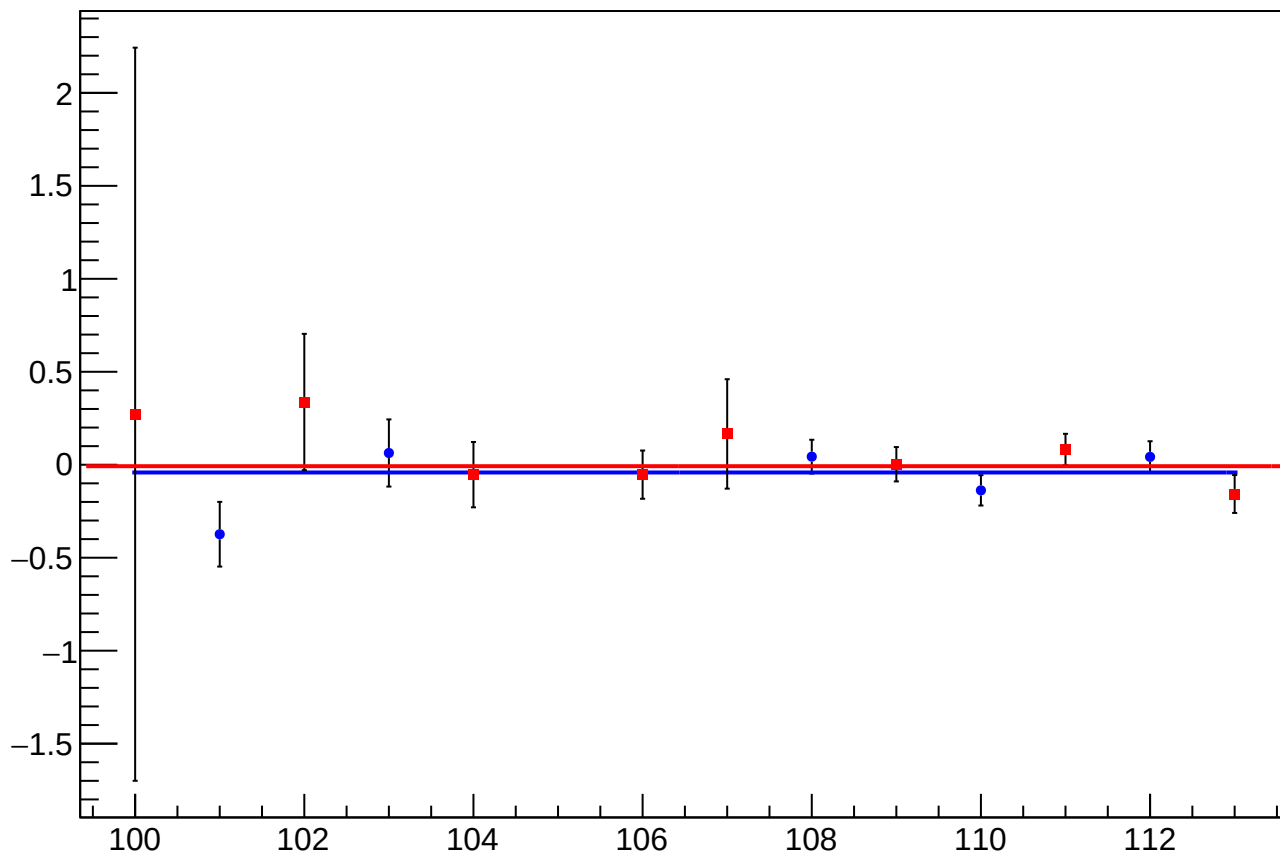
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.833+/-0.023  $\chi^2/\text{NDF}$ : 1390023.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.042 $\pm$ 0.046  $\chi^2$ /NDF: 7.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.008 $\pm$ 0.046  $\chi^2$ /NDF: 4.8/7

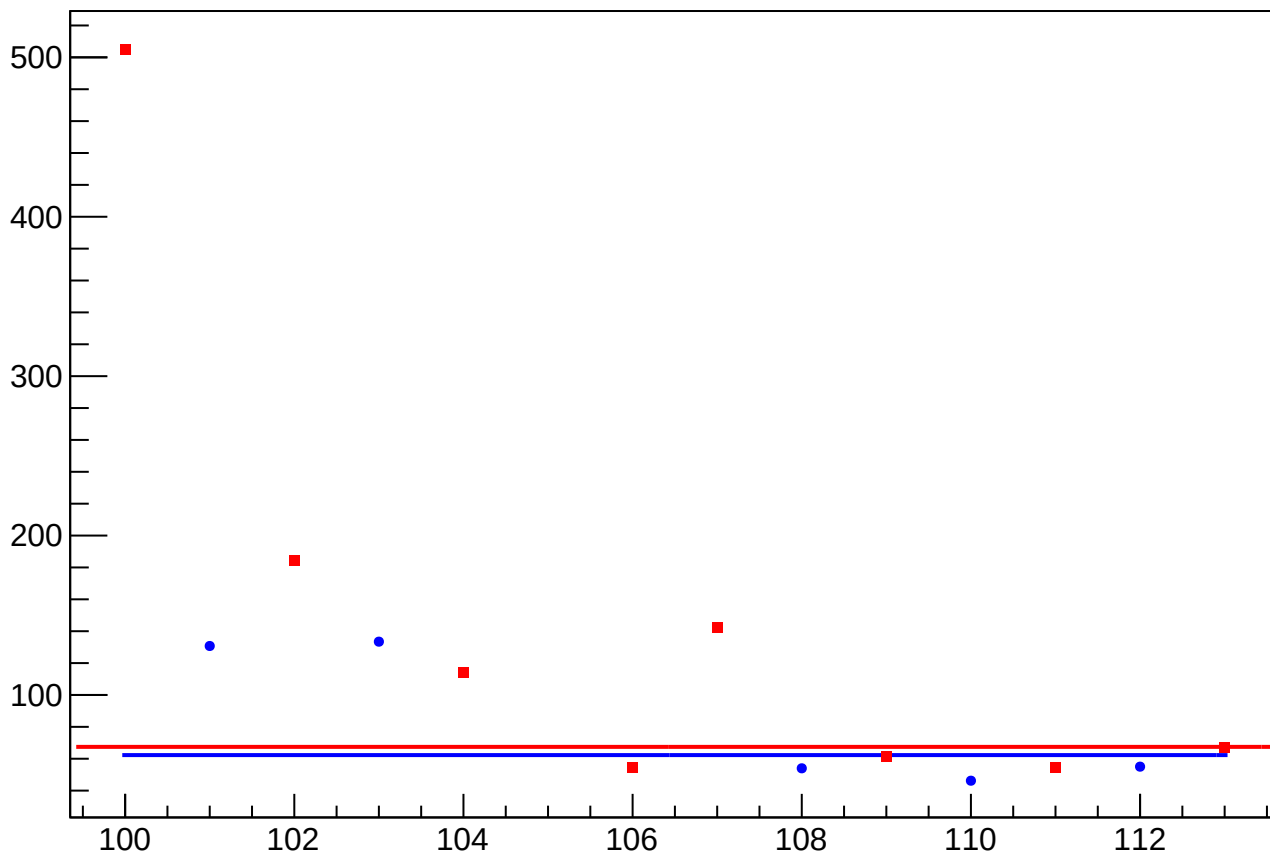
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.025 $\pm$ 0.033  $\chi^2$ /NDF: 12.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 62.283+/-0.032  $\chi^2/\text{NDF}$ : 728683.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 67.439+/-0.033  $\chi^2/\text{NDF}$ : 648817.0/7

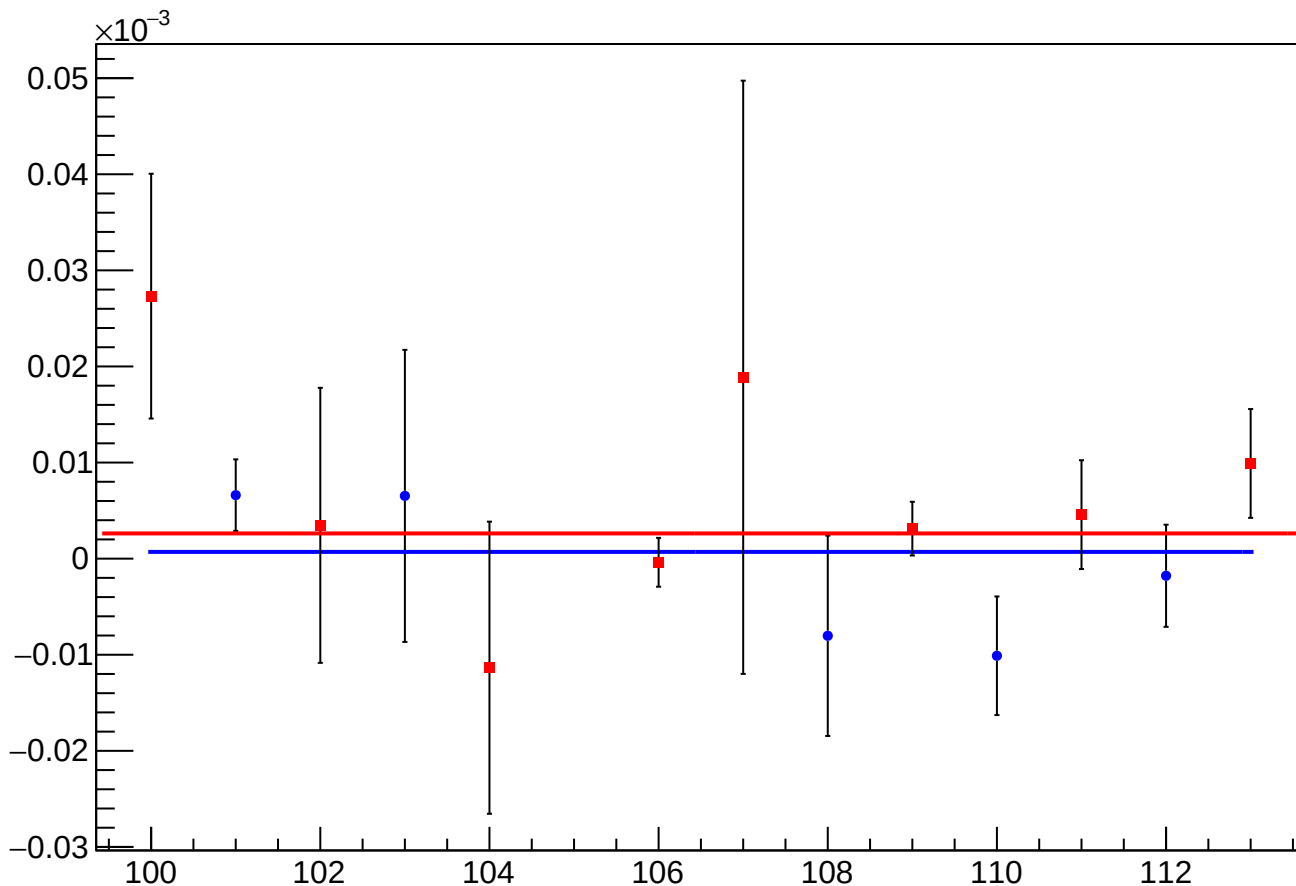
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.833+/-0.023  $\chi^2/\text{NDF}$ : 1390023.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.1/7

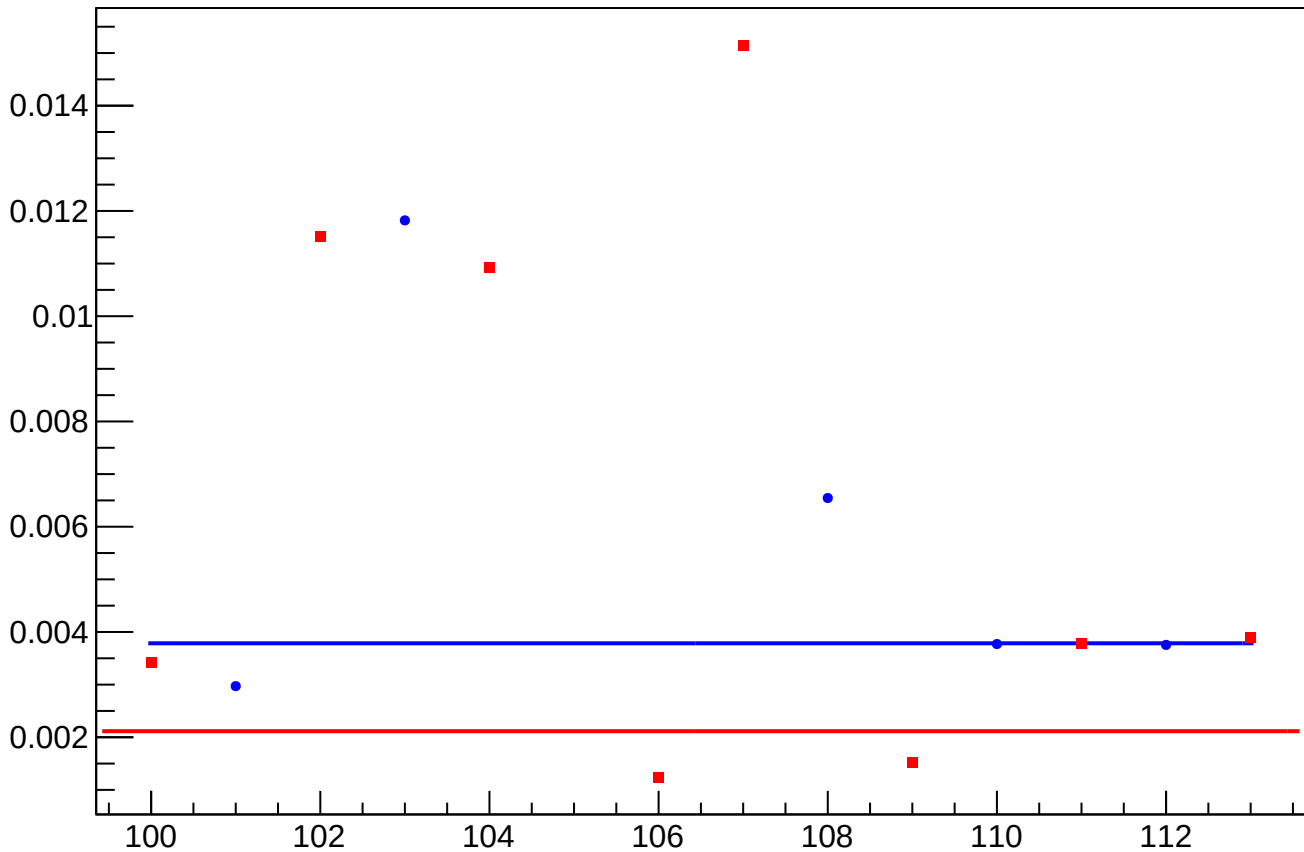
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 795003.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2618430.4/7

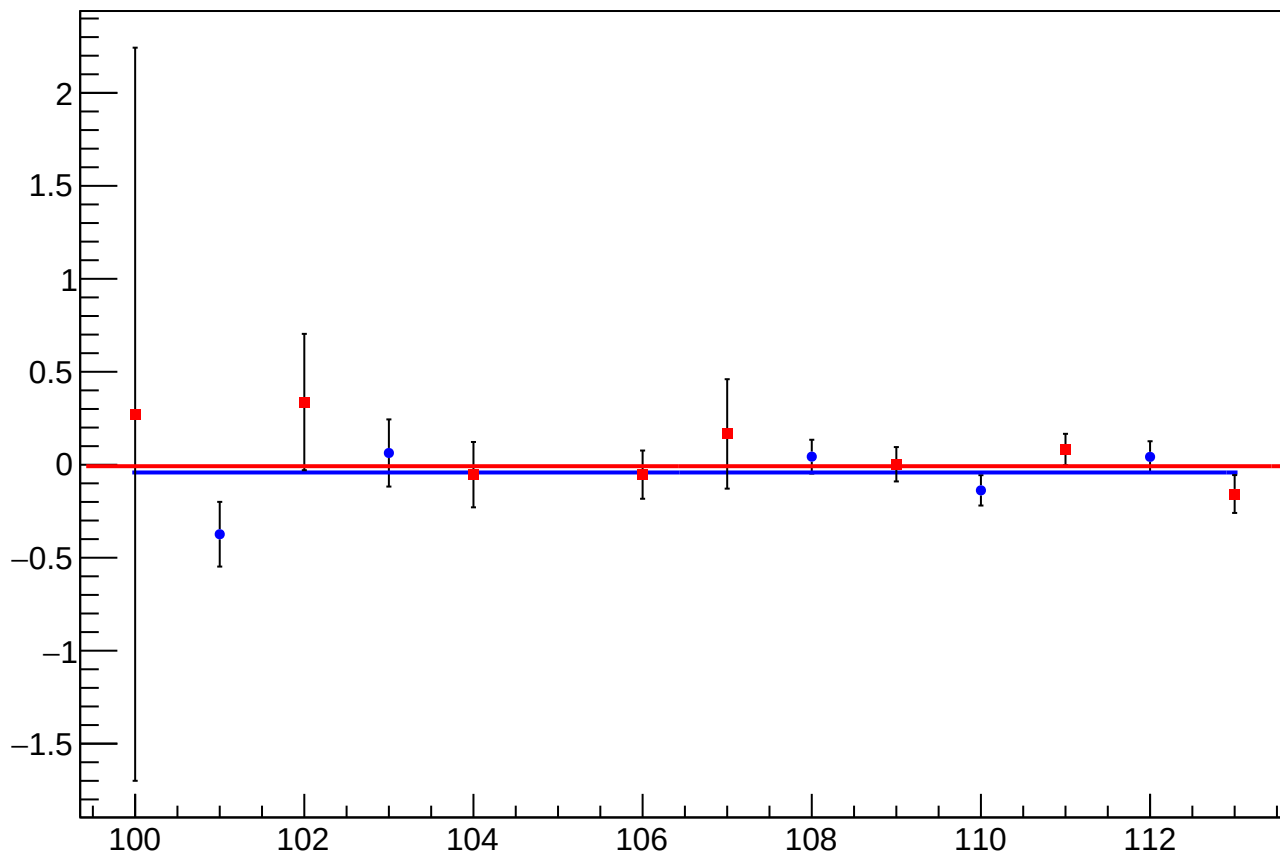
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 3997243.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.042 \pm 0.046$   $\chi^2/\text{NDF}$ : 7.2/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.008 \pm 0.046$   $\chi^2/\text{NDF}$ : 4.8/7

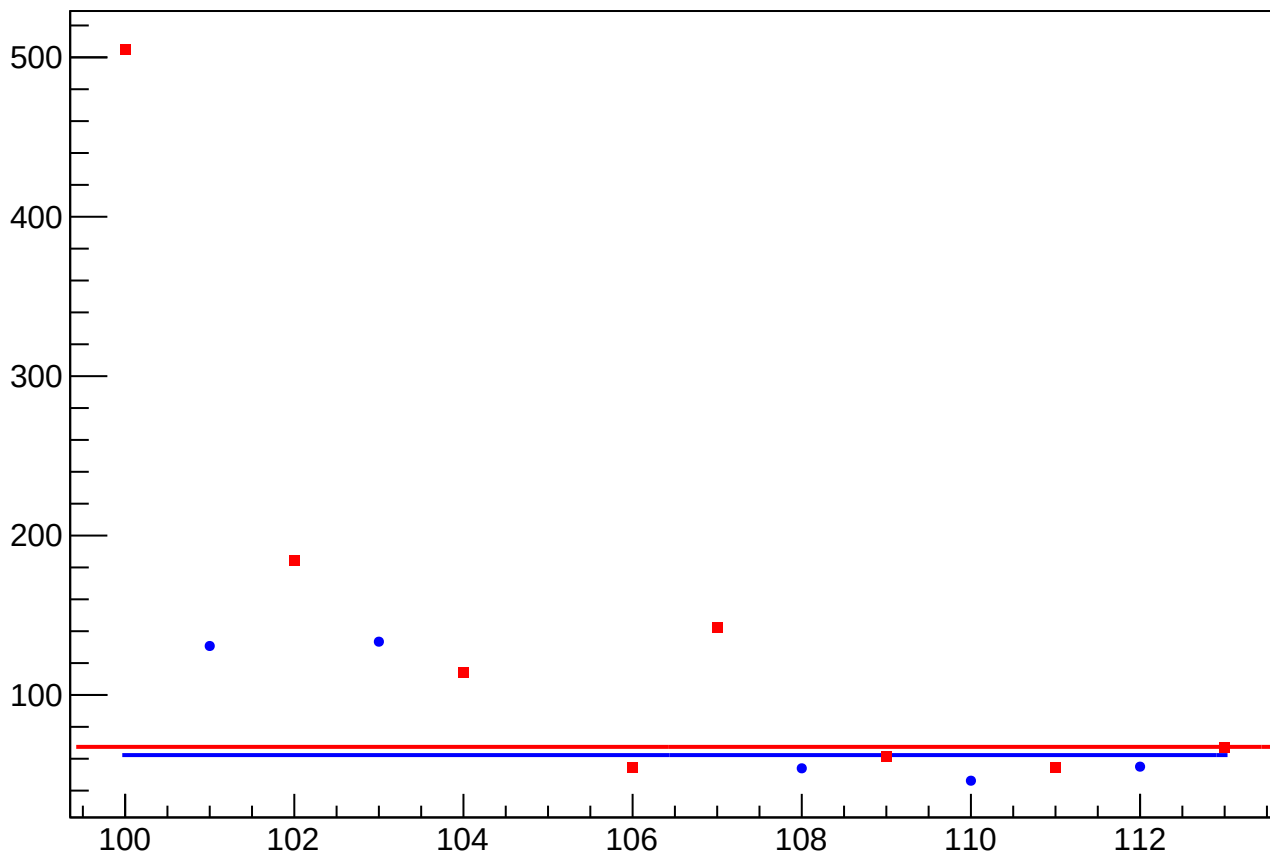
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.025 \pm 0.033$   $\chi^2/\text{NDF}$ : 12.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 62.282 $\pm$ 0.032  $\chi^2$ /NDF: 728643.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.438 $\pm$ 0.033  $\chi^2$ /NDF: 648776.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

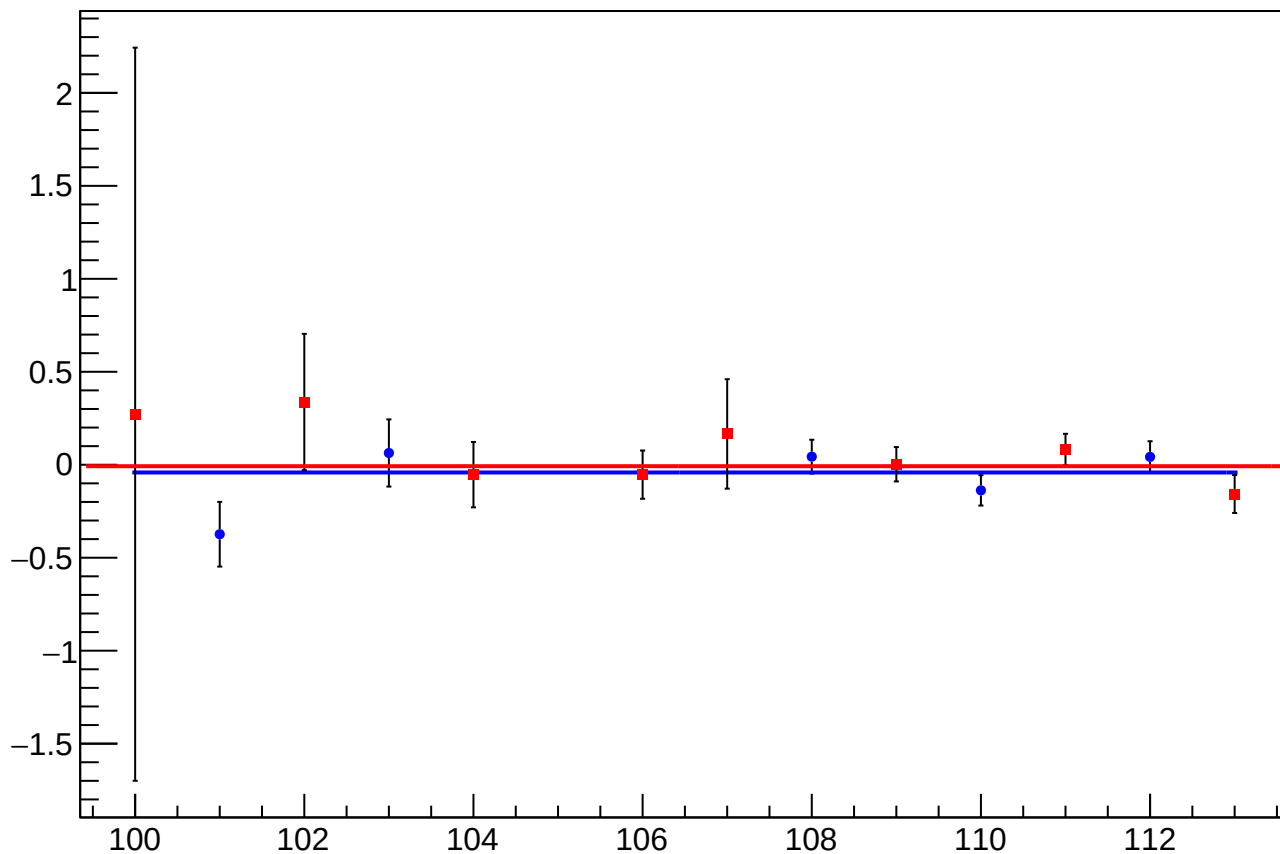
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 64.832 $\pm$ 0.023  $\chi^2$ /NDF: 1389938.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.042 $\pm$ 0.046  $\chi^2$ /NDF: 7.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.008 $\pm$ 0.046  $\chi^2$ /NDF: 4.8/7

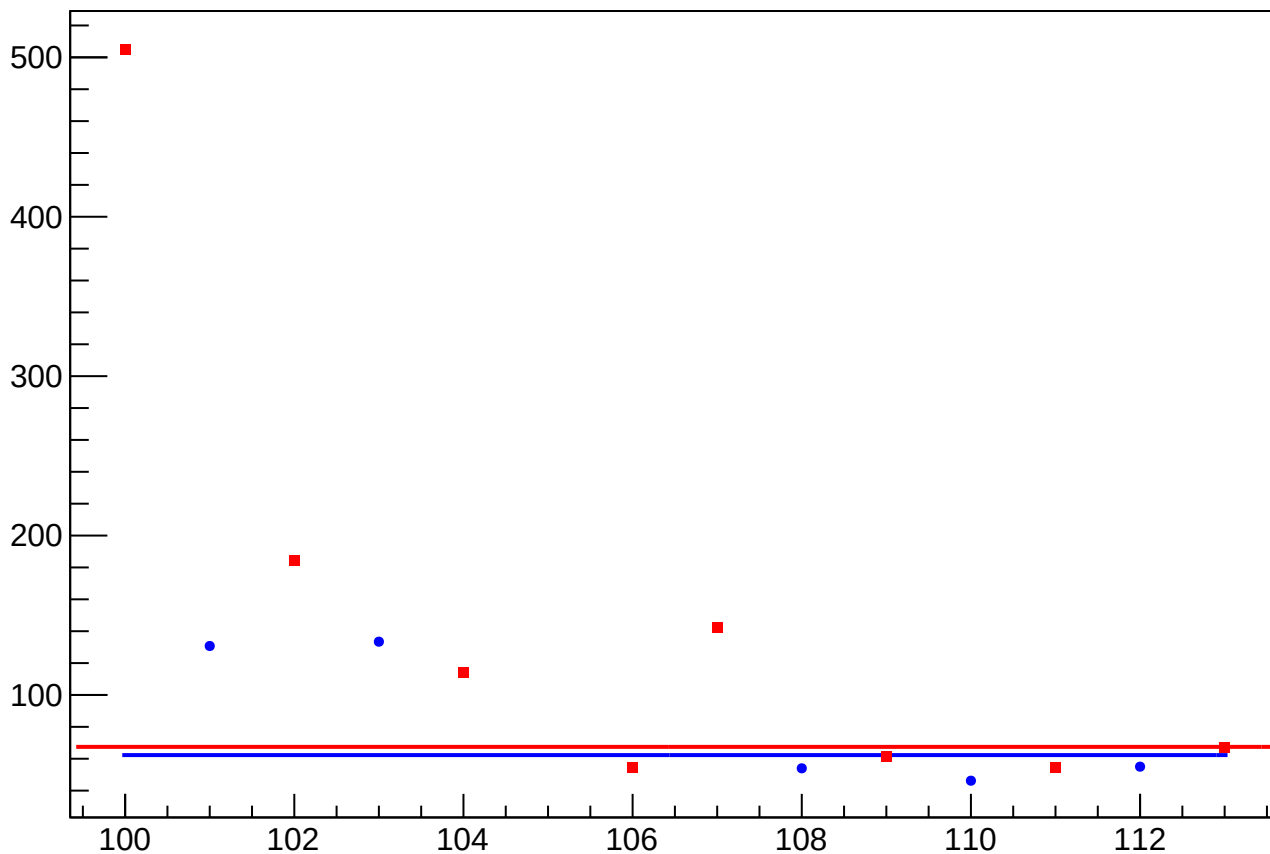
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.025 $\pm$ 0.033  $\chi^2$ /NDF: 12.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 62.282 $\pm$ 0.032  $\chi^2$ /NDF: 728643.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.438 $\pm$ 0.033  $\chi^2$ /NDF: 648776.7/7

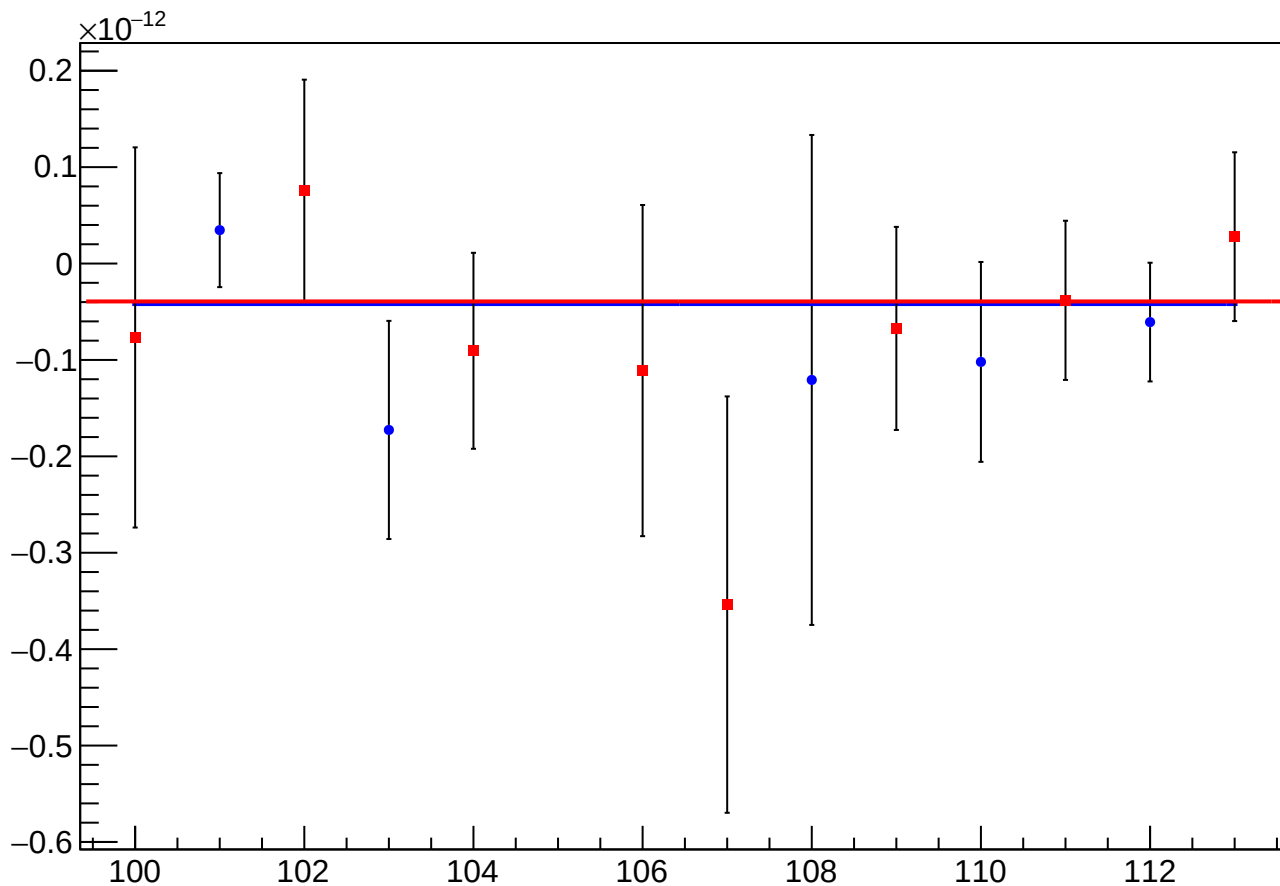
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 64.832 $\pm$ 0.023  $\chi^2$ /NDF: 1389938.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.2/7

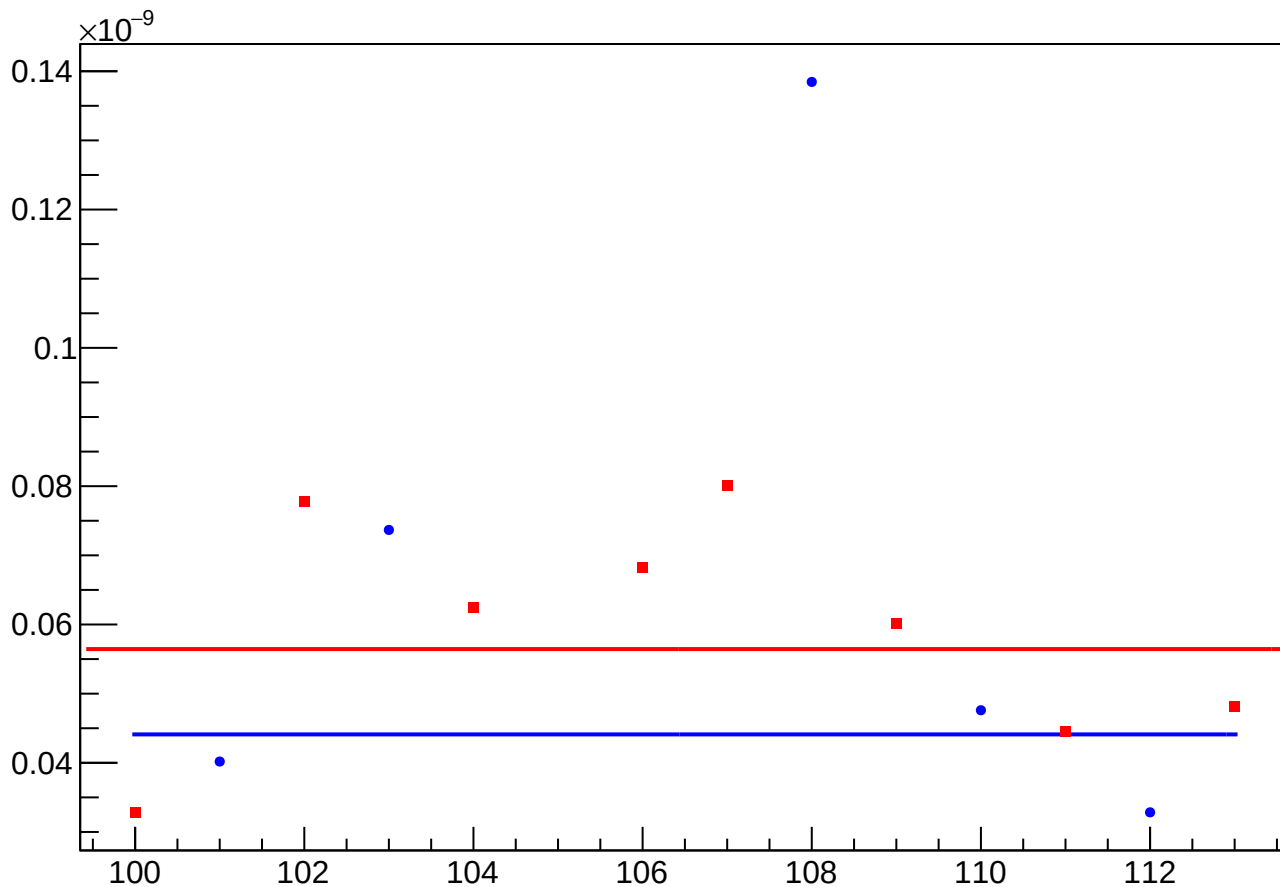
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 490334.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 200505.8/7

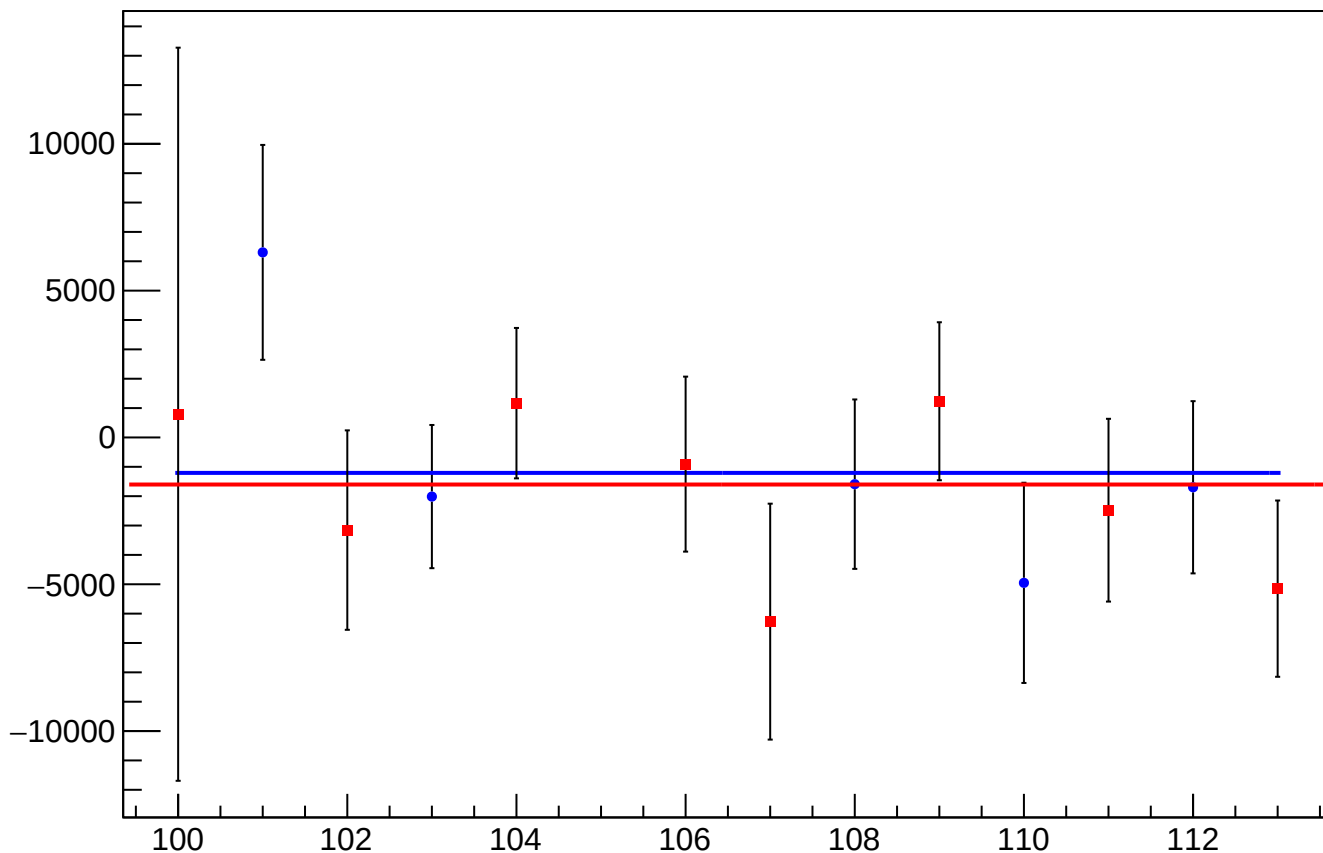
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 793414.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1207.006 $\pm$ 1330.045  $\chi^2$ /NDF: 5.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1602.983 $\pm$ 1137.776  $\chi^2$ /NDF: 5.4/7

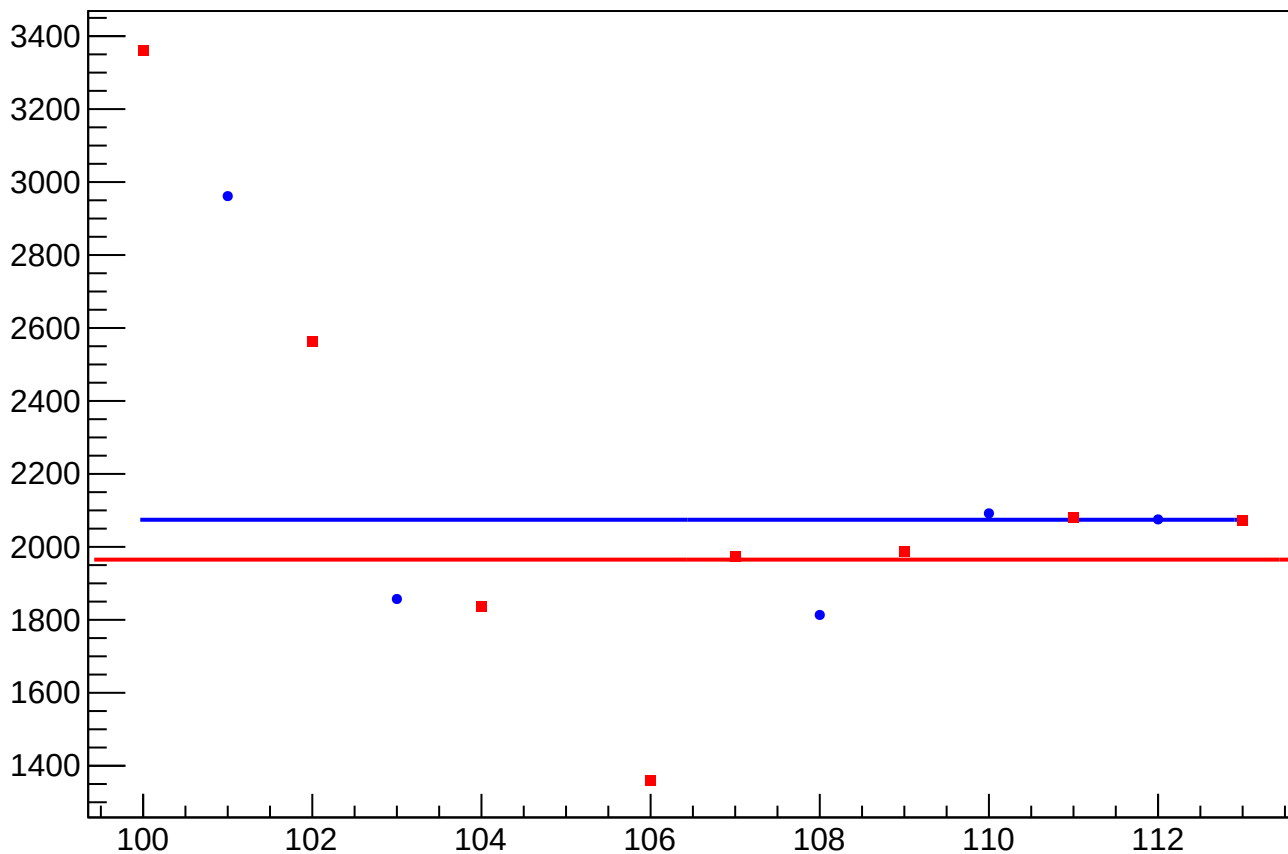
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1435.659 $\pm$ 864.590  $\chi^2$ /NDF: 11.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2074.352 $\pm$ 0.940  $\chi^2$ /NDF: 149814.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1965.095 $\pm$ 0.805  $\chi^2$ /NDF: 179429.1/7

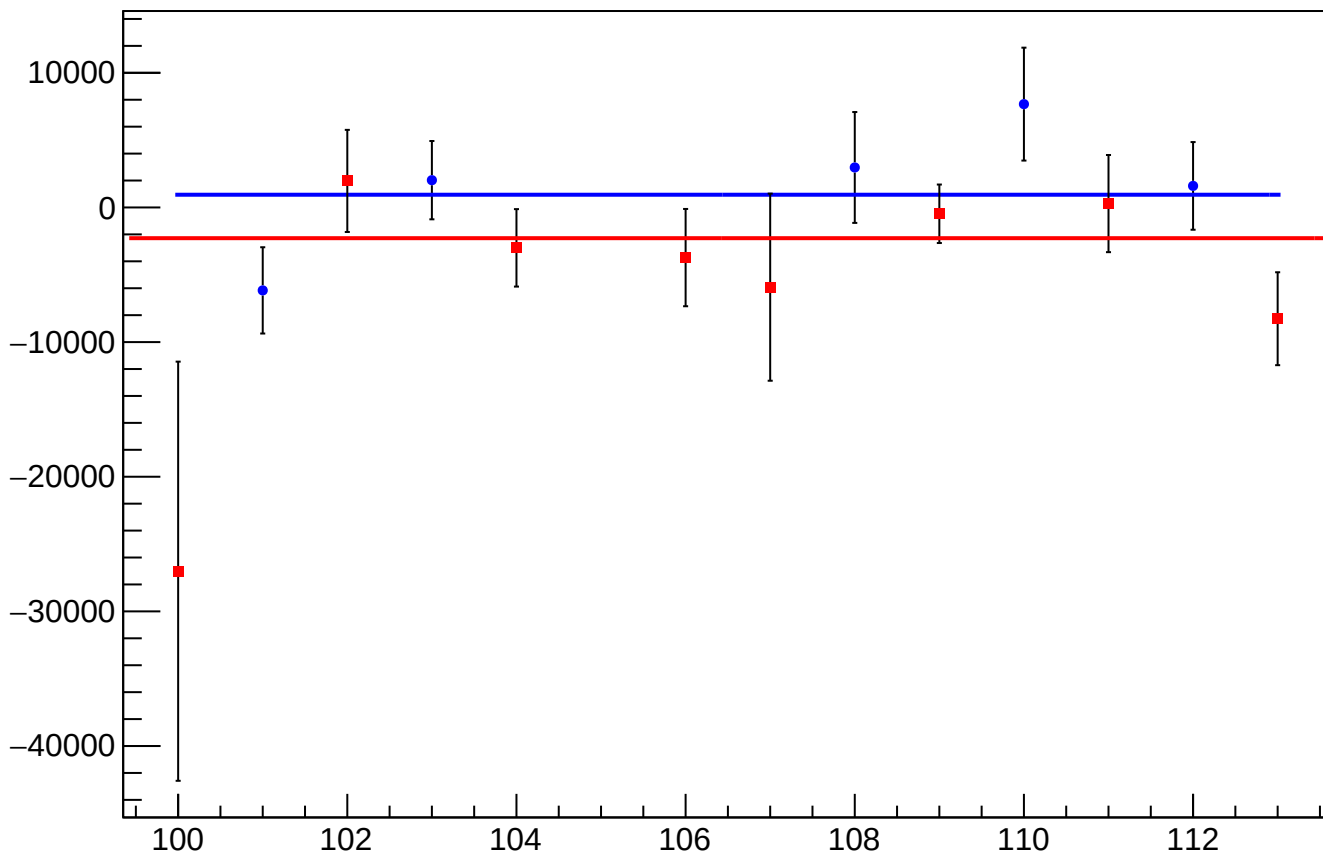
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2011.262 $\pm$ 0.611  $\chi^2$ /NDF: 337036.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_reg\_correction\_mean vs Slug



Right In: 945.047+/-1532.246  $\chi^2/\text{NDF}$ : 7.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2281.987+/-1226.643  $\chi^2/\text{NDF}$ : 8.5/7

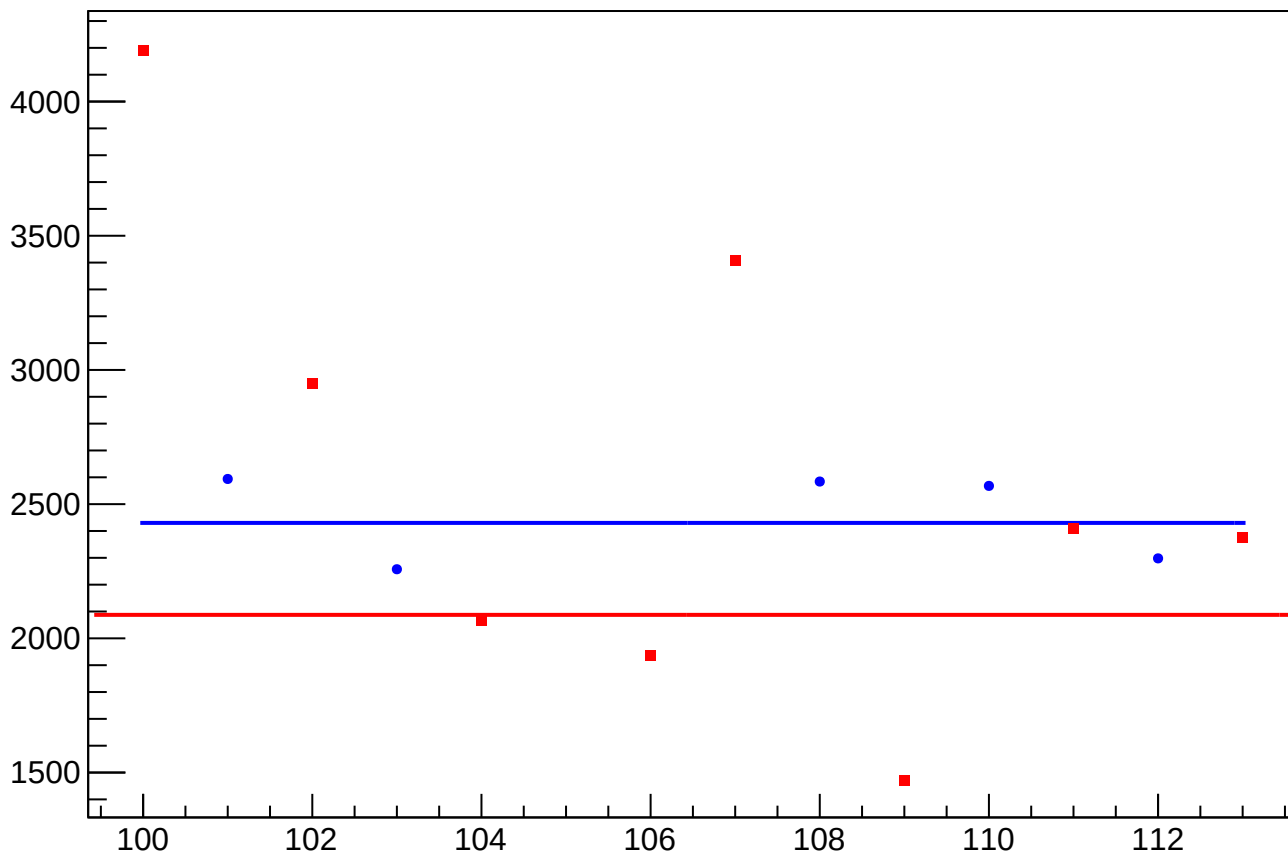
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1021.597+/-957.589  $\chi^2/\text{NDF}$ : 19.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_reg\_correction\_rms vs Slug



Right In: 2430.125+/-1.083  $\chi^2/\text{NDF}$ : 20534.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2087.502+/-0.867  $\chi^2/\text{NDF}$ : 406915.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

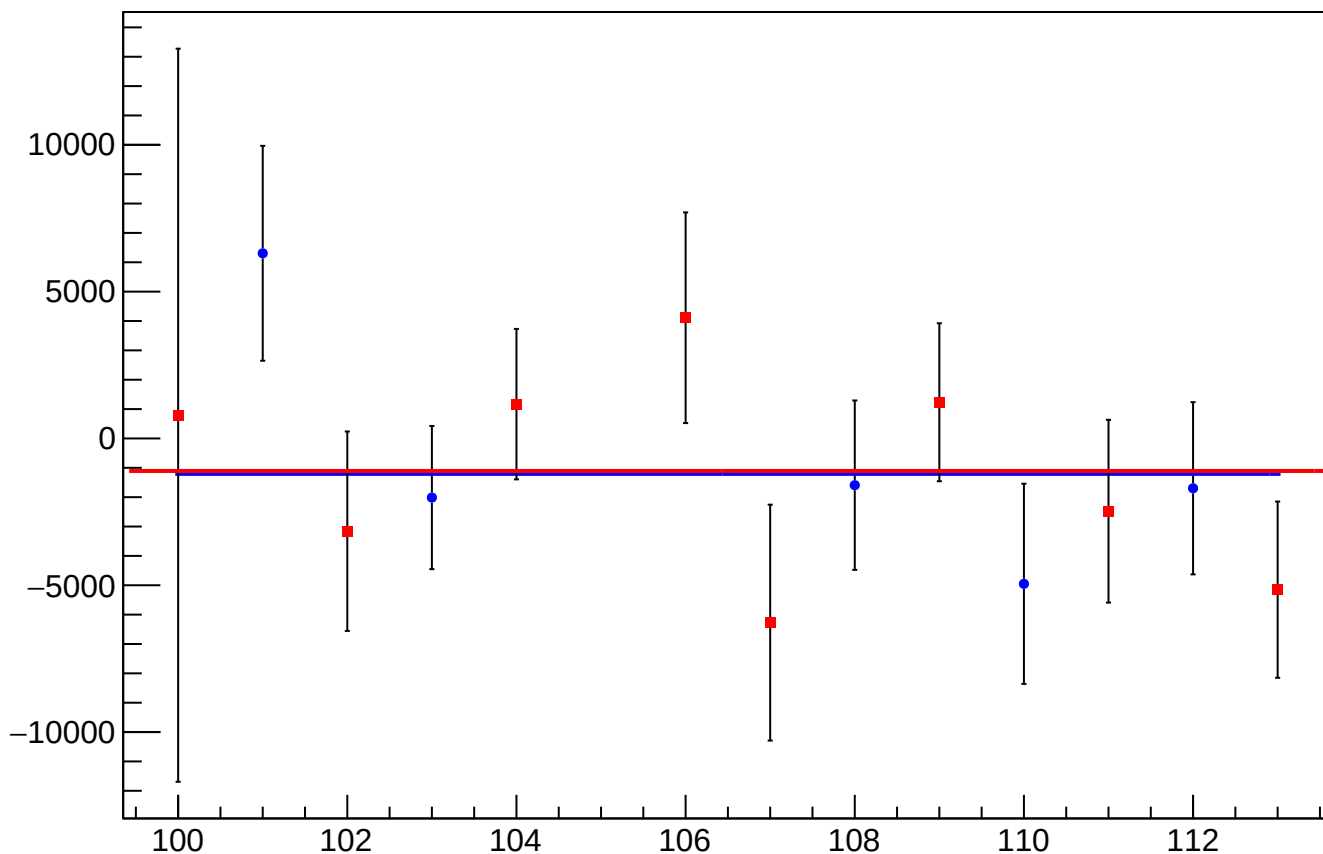
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2221.321+/-0.677  $\chi^2/\text{NDF}$ : 488393.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



cor\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1206.579+/-1330.045  $\chi^2/\text{NDF}$ : 5.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1107.632+/-1164.386  $\chi^2/\text{NDF}$ : 7.7/7

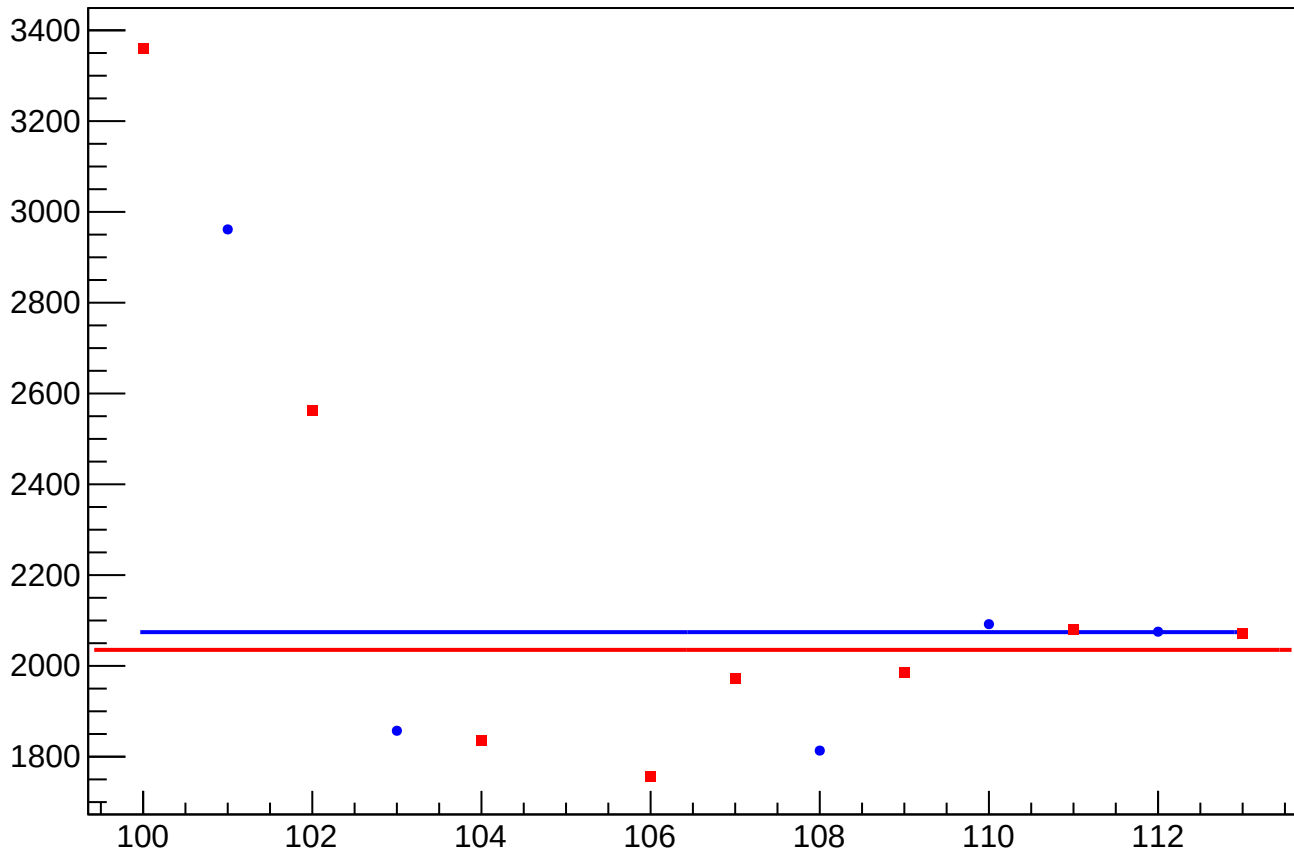
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1150.563+/-876.095  $\chi^2/\text{NDF}$ : 13.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2074.351+/-0.940  $\chi^2/\text{NDF}$ : 149815.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2035.324+/-0.823  $\chi^2/\text{NDF}$ : 96719.9/7

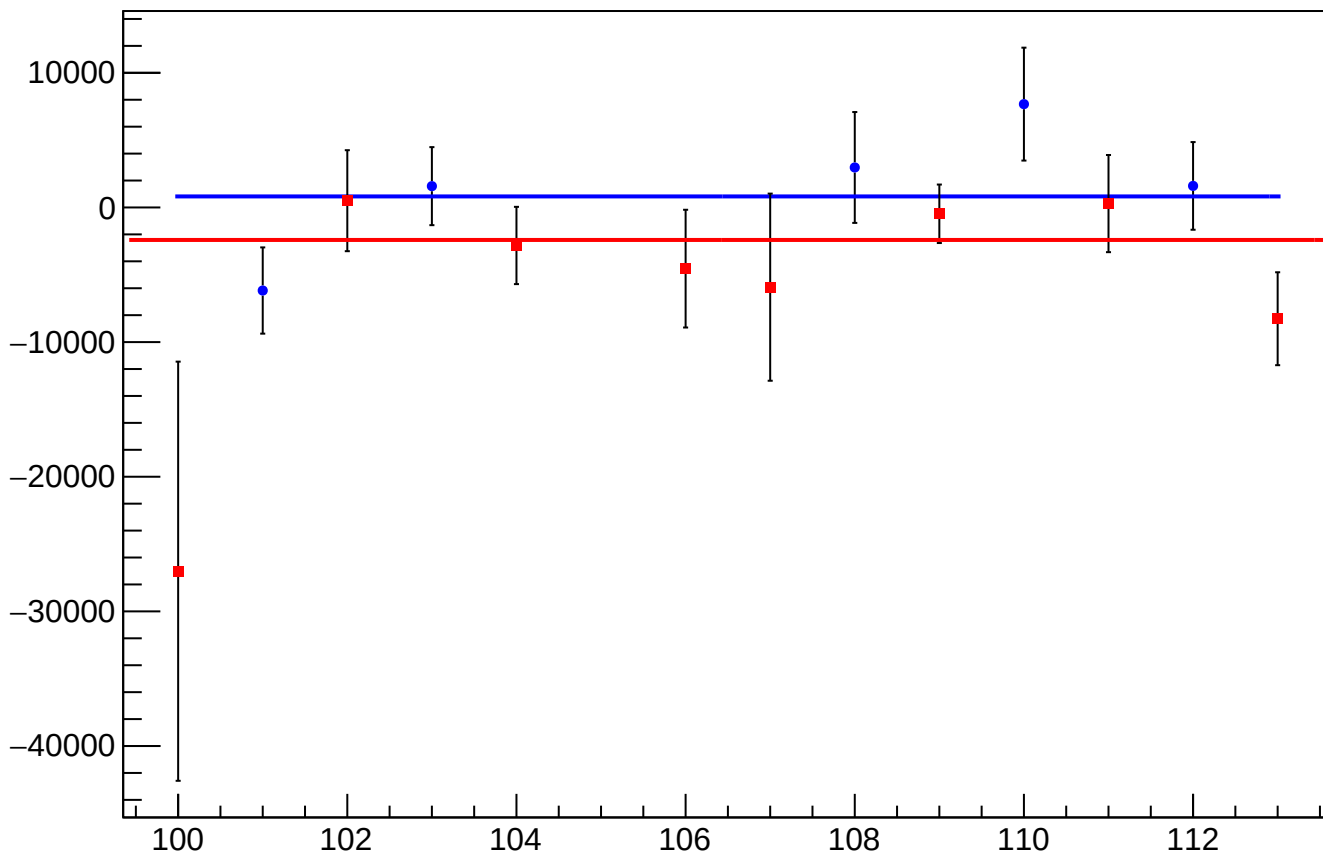
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2052.257+/-0.619  $\chi^2/\text{NDF}$ : 247509.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_cor\_correction\_mean vs Slug



Right In: 819.654+/-1530.592  $\chi^2/\text{NDF}$ : 7.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2413.710+/-1247.609  $\chi^2/\text{NDF}$ : 7.9/7

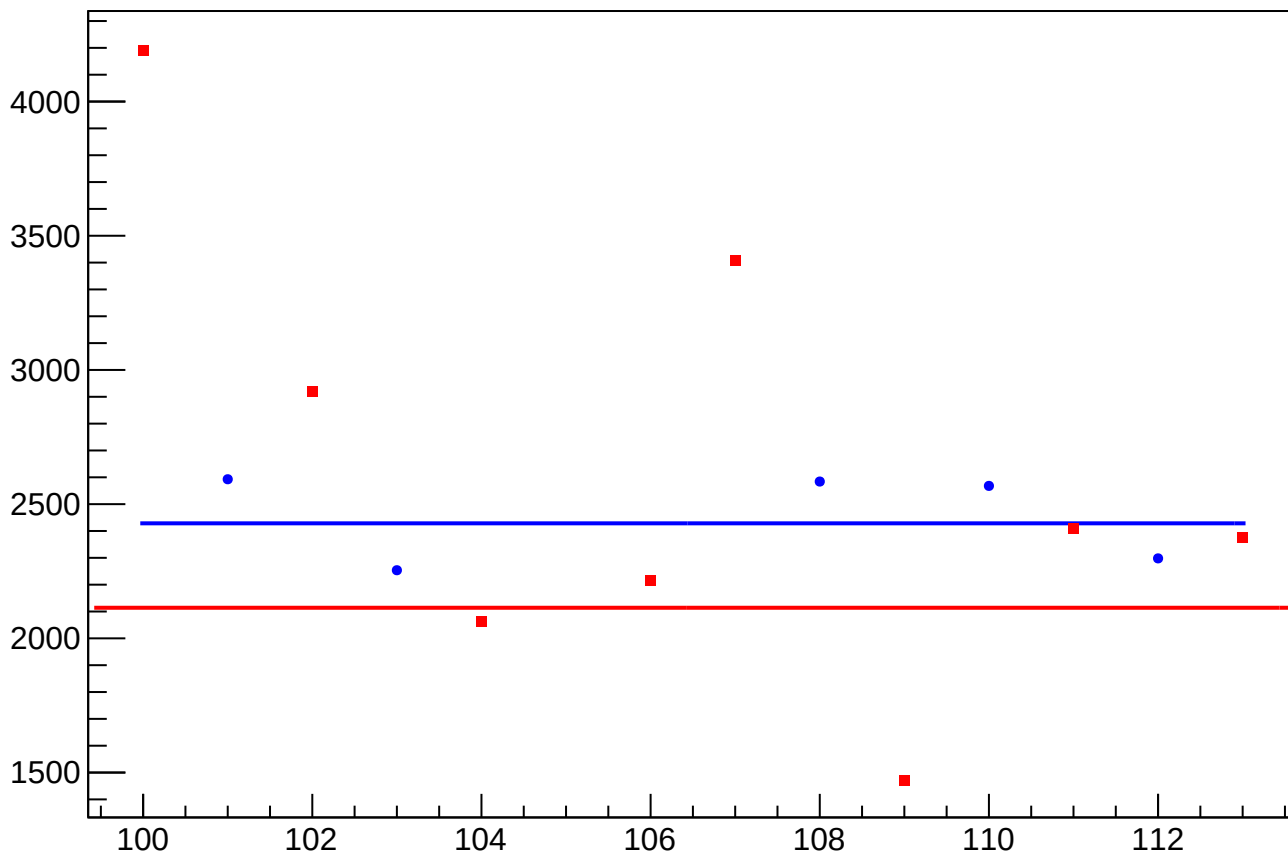
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1122.991+/-967.048  $\chi^2/\text{NDF}$ : 18.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_cor\_correction\_rms vs Slug



Right In: 2428.546 $\pm$ 1.082  $\chi^2$ /NDF: 20824.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2113.984 $\pm$ 0.882  $\chi^2$ /NDF: 399557.5/7

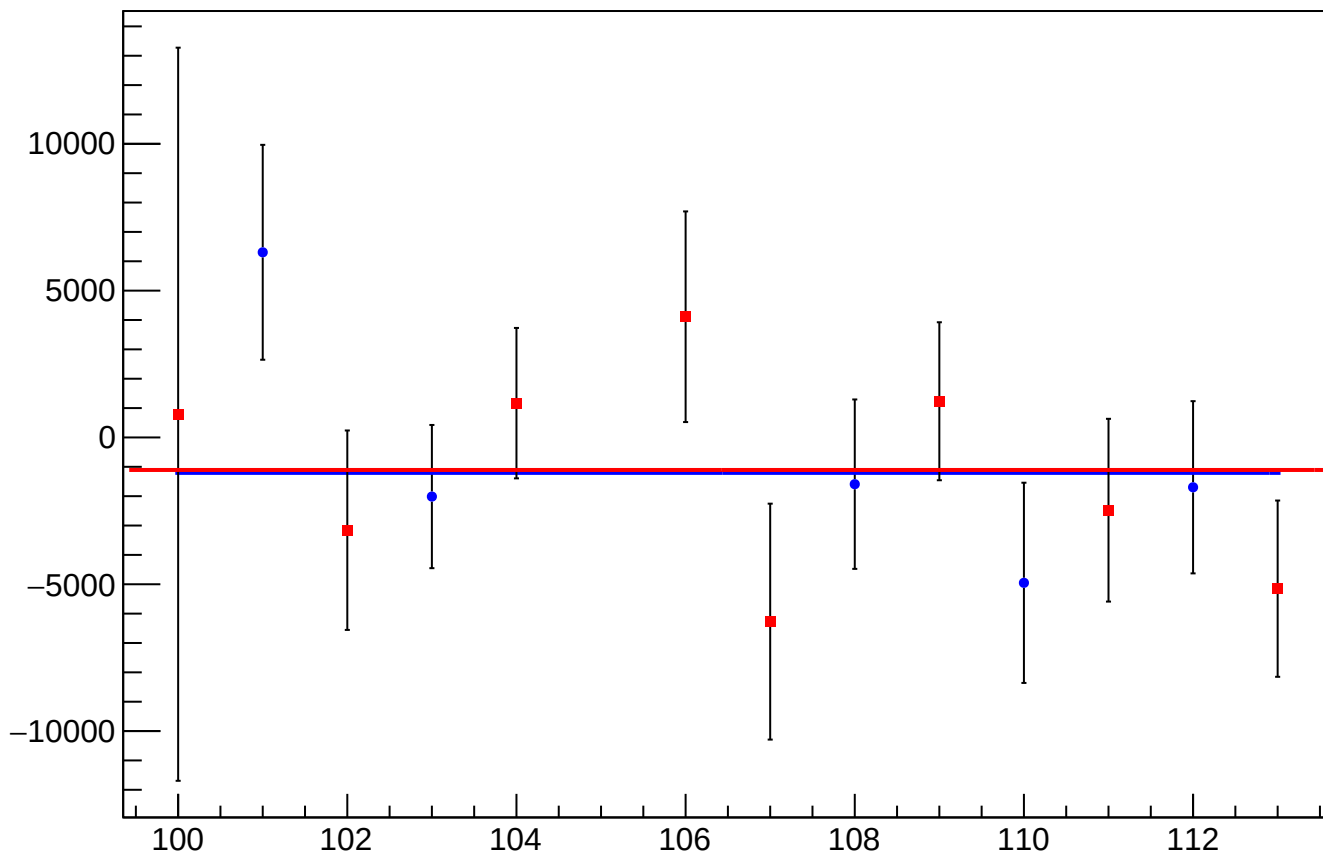
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2239.554 $\pm$ 0.684  $\chi^2$ /NDF: 471134.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1206.579+/-1330.045  $\chi^2/\text{NDF}$ : 5.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1107.632+/-1164.386  $\chi^2/\text{NDF}$ : 7.7/7

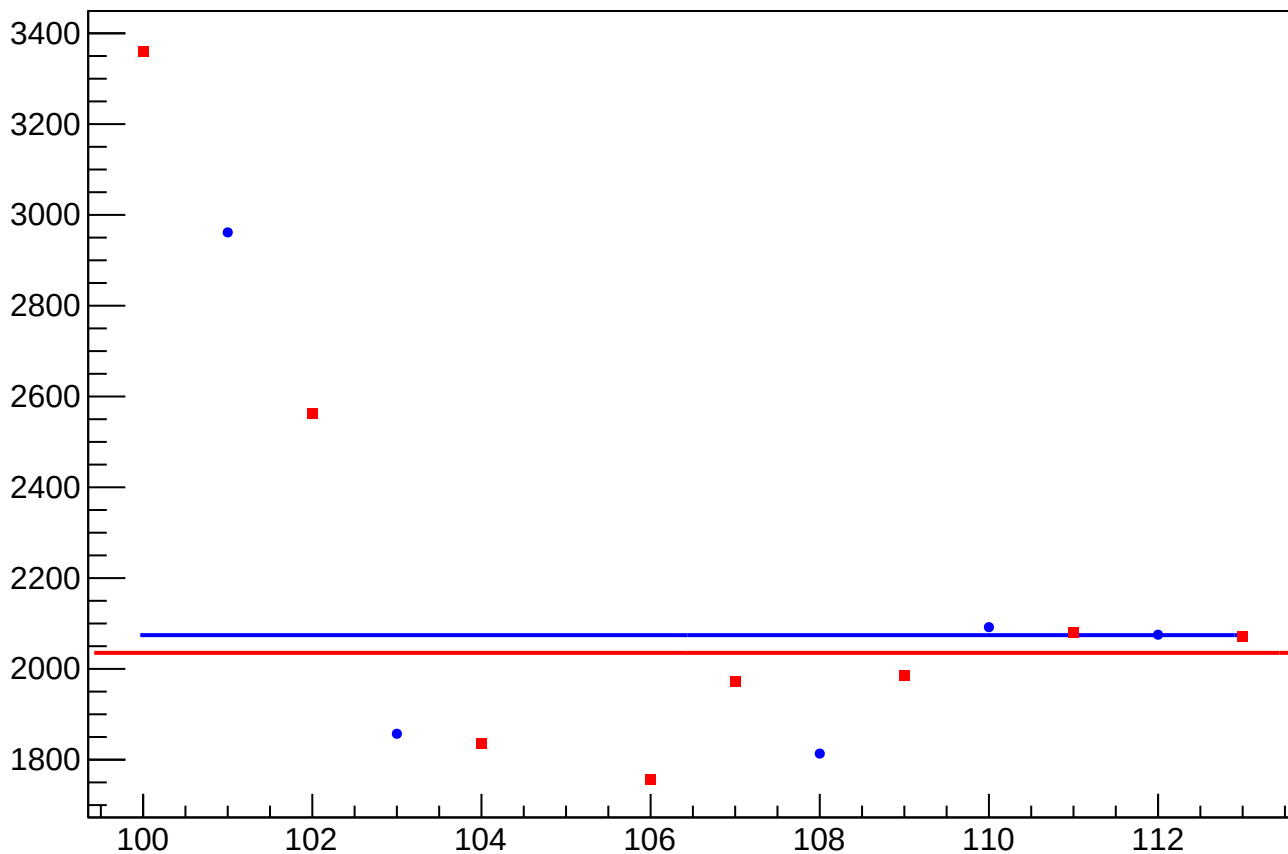
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1150.563+/-876.095  $\chi^2/\text{NDF}$ : 13.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2074.351 $\pm$ 0.940  $\chi^2$ /NDF: 149815.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2035.324 $\pm$ 0.823  $\chi^2$ /NDF: 96719.9/7

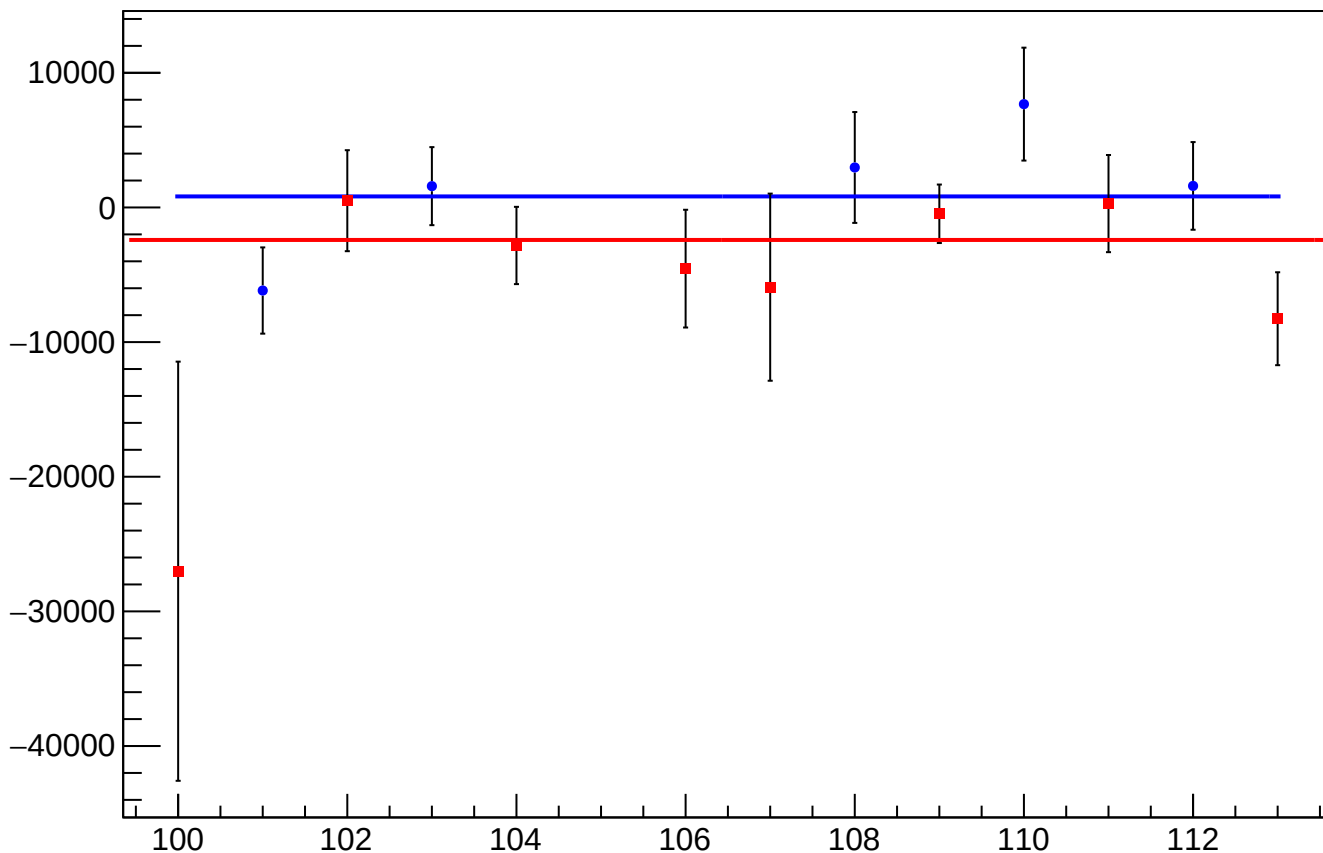
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2052.257 $\pm$ 0.619  $\chi^2$ /NDF: 247509.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 819.654+/-1530.592  $\chi^2/\text{NDF}$ : 7.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2413.710+/-1247.609  $\chi^2/\text{NDF}$ : 7.9/7

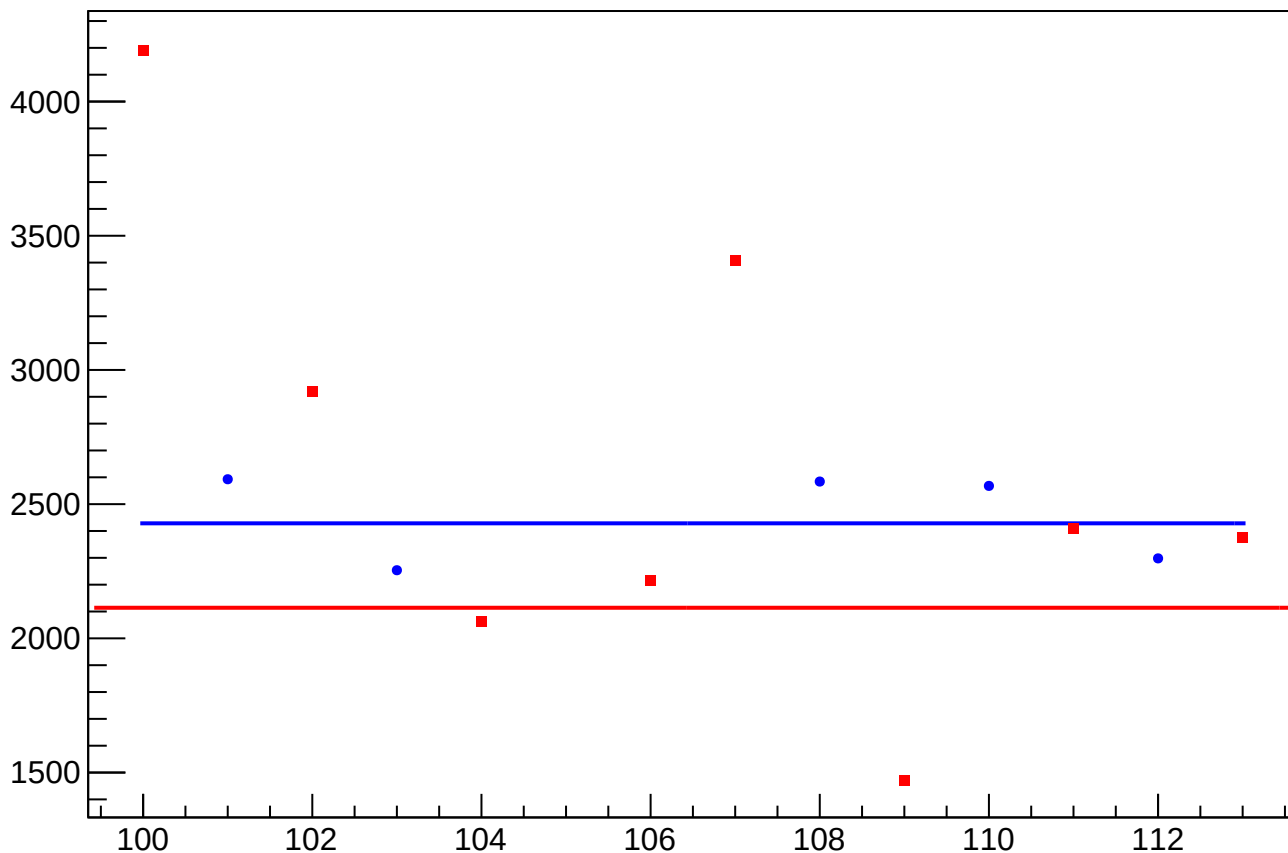
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1122.991+/-967.048  $\chi^2/\text{NDF}$ : 18.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 2428.546 $\pm$ 1.082  $\chi^2$ /NDF: 20824.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2113.984 $\pm$ 0.882  $\chi^2$ /NDF: 399557.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

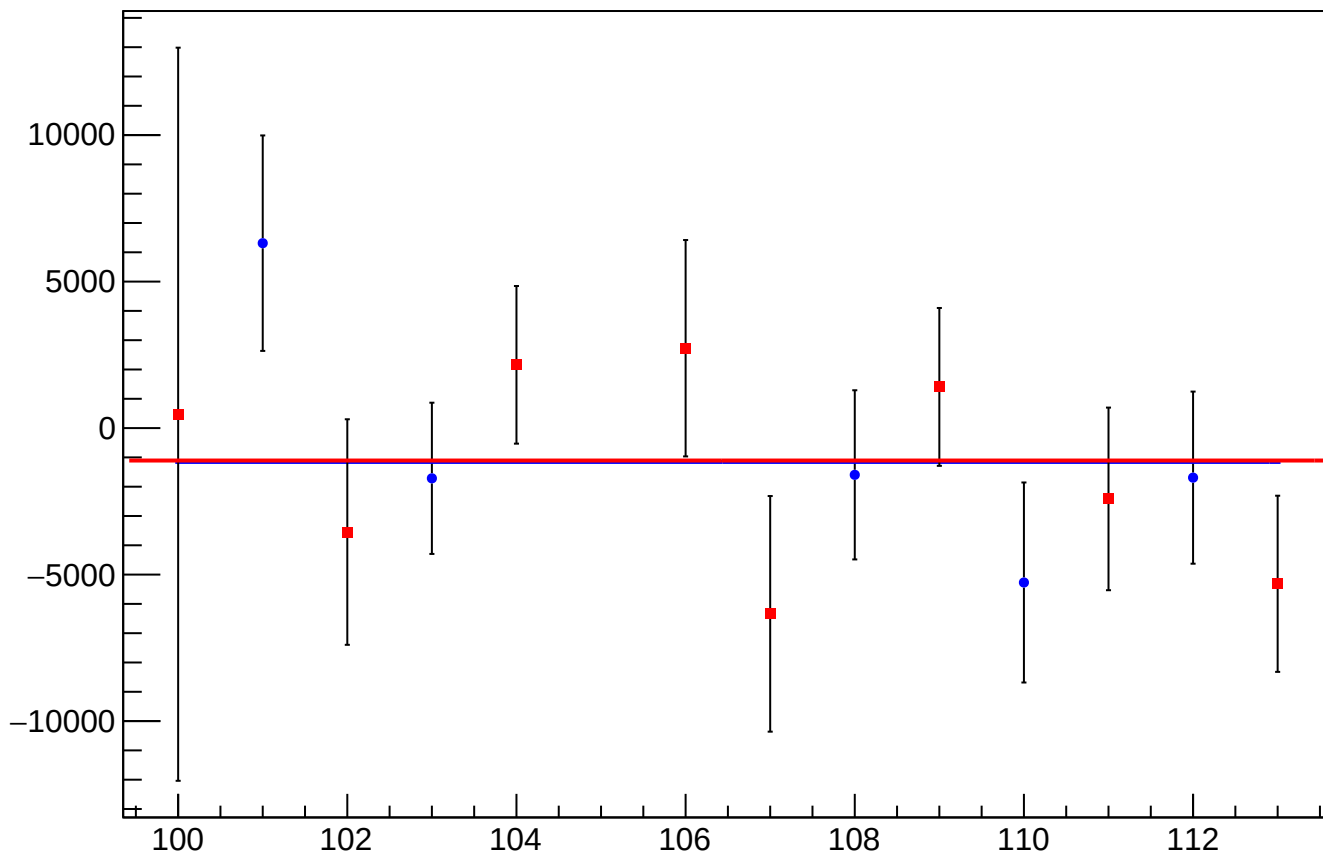
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2239.554 $\pm$ 0.684  $\chi^2$ /NDF: 471134.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1154.734+/-1353.507  $\chi^2/\text{NDF}$ : 5.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1106.926+/-1196.359  $\chi^2/\text{NDF}$ : 7.7/7

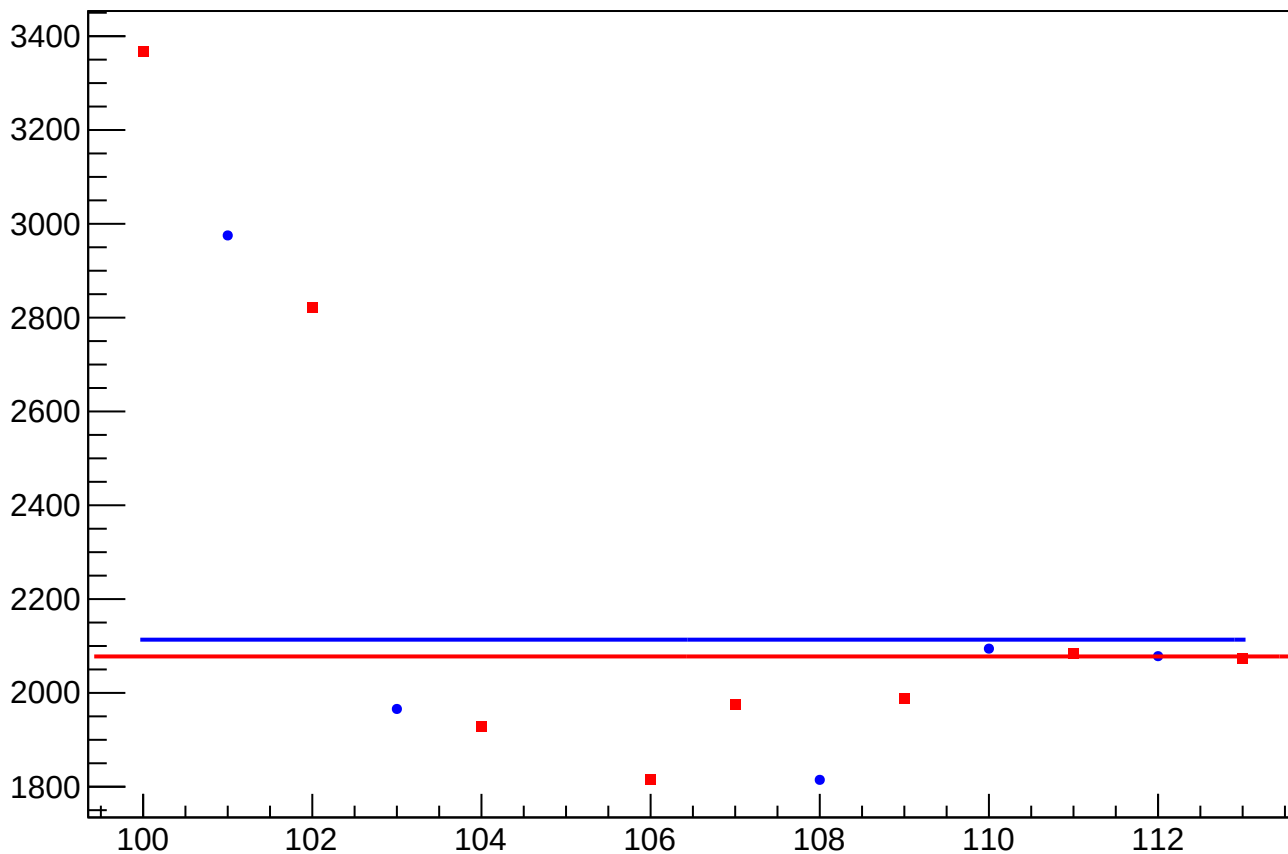
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1127.895+/-896.389  $\chi^2/\text{NDF}$ : 13.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2113.484 $\pm$ 0.957  $\chi^2$ /NDF: 138185.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2077.718 $\pm$ 0.846  $\chi^2$ /NDF: 115635.6/7

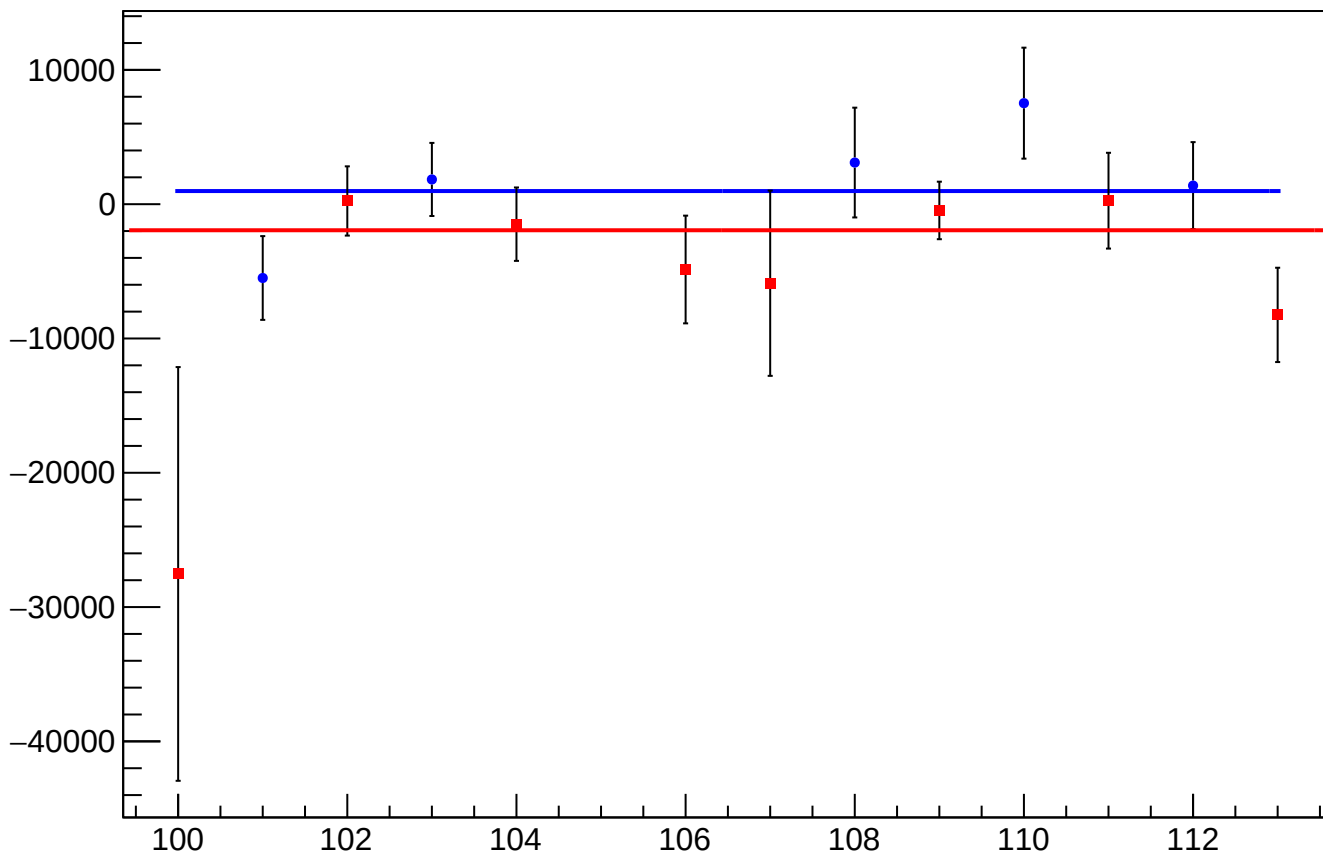
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2093.405 $\pm$ 0.634  $\chi^2$ /NDF: 254605.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_correction\_mean vs Slug



Right In: 978.030+/-1487.961  $\chi^2$ /NDF: 7.2/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1941.300+/-1155.113  $\chi^2$ /NDF: 8.4/7

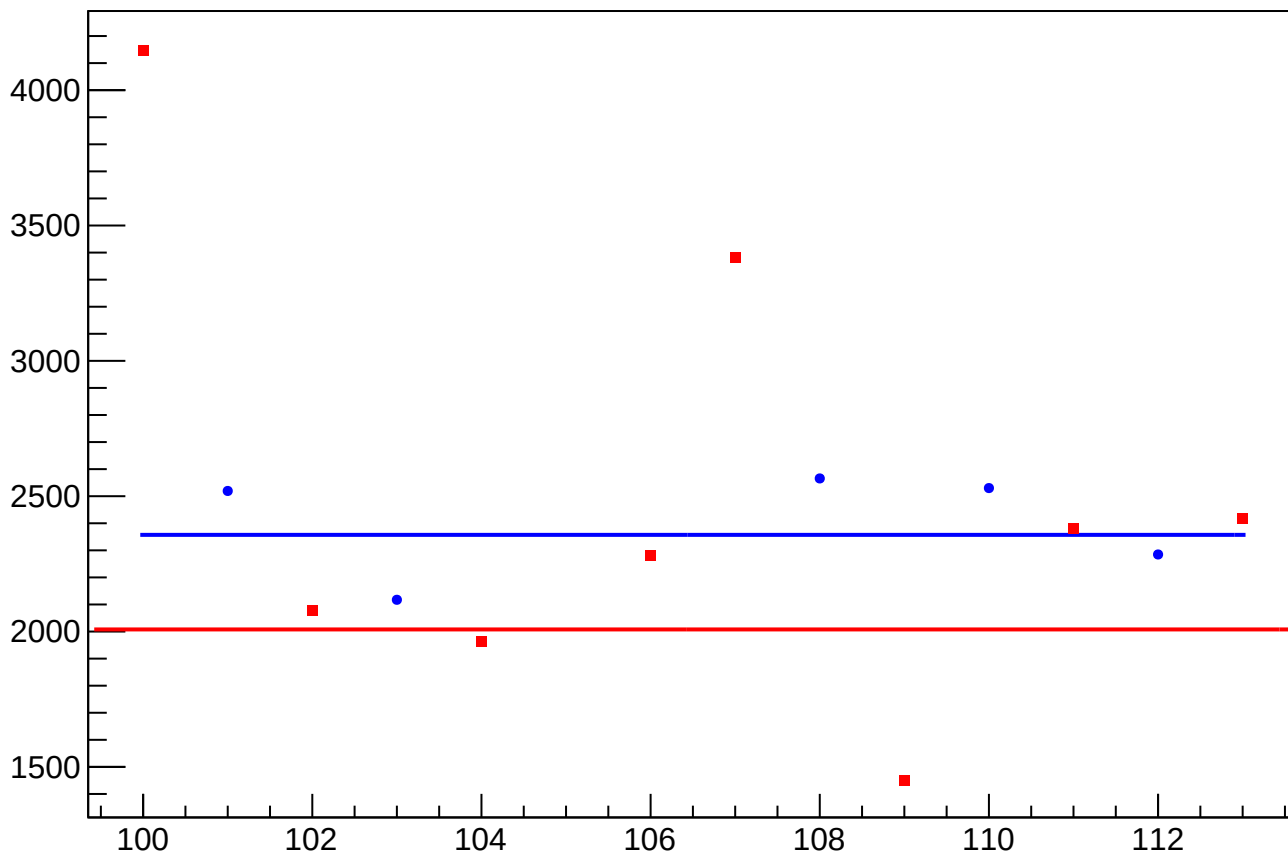
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -843.533+/-912.442  $\chi^2$ /NDF: 18.0/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_correction\_rms vs Slug



Right In: 2357.185+/-1.052  $\chi^2/\text{NDF}$ : 30646.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2007.808+/-0.817  $\chi^2/\text{NDF}$ : 313652.1/7

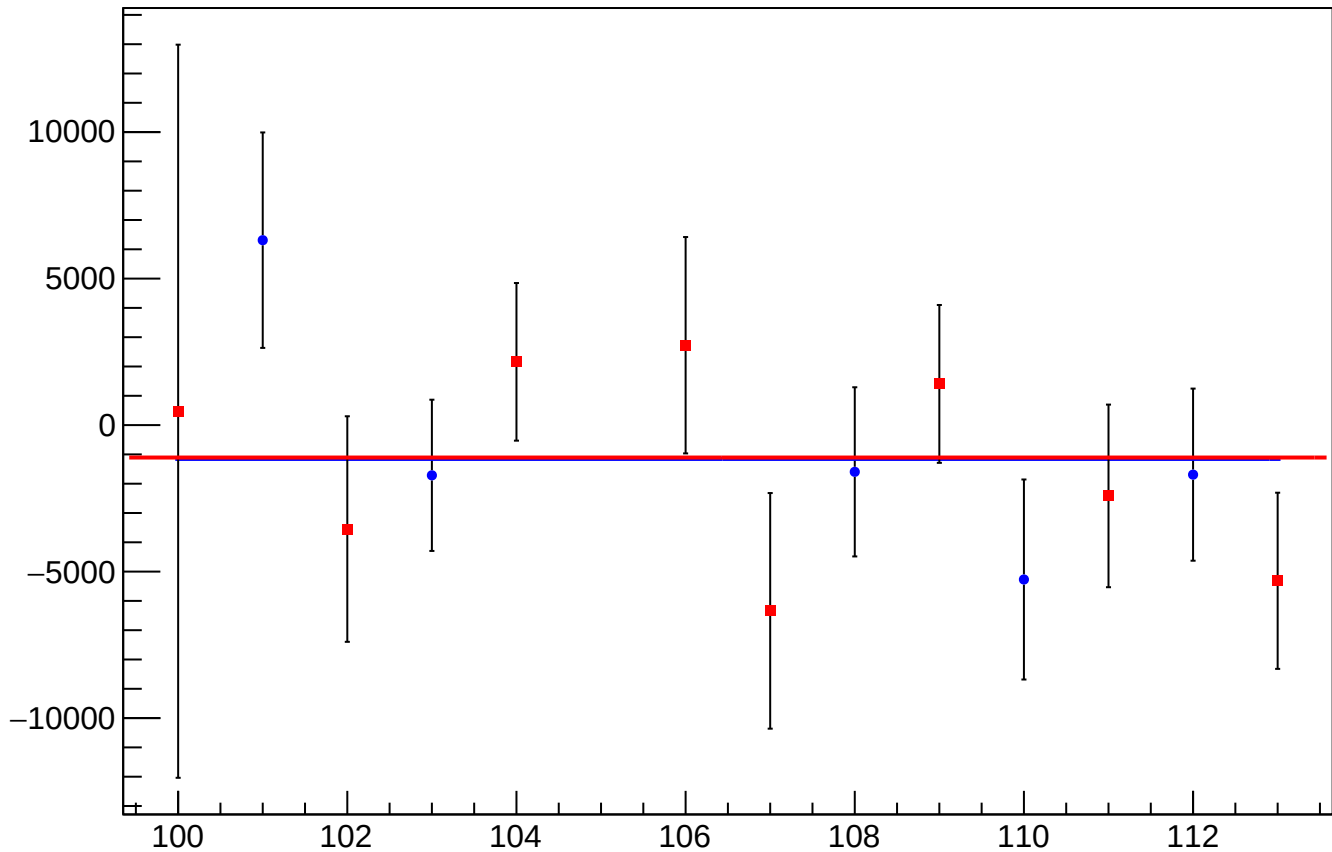
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2139.185+/-0.645  $\chi^2/\text{NDF}$ : 413099.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1154.726+/-1353.507  $\chi^2/\text{NDF}$ : 5.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1106.921+/-1196.359  $\chi^2/\text{NDF}$ : 7.7/7

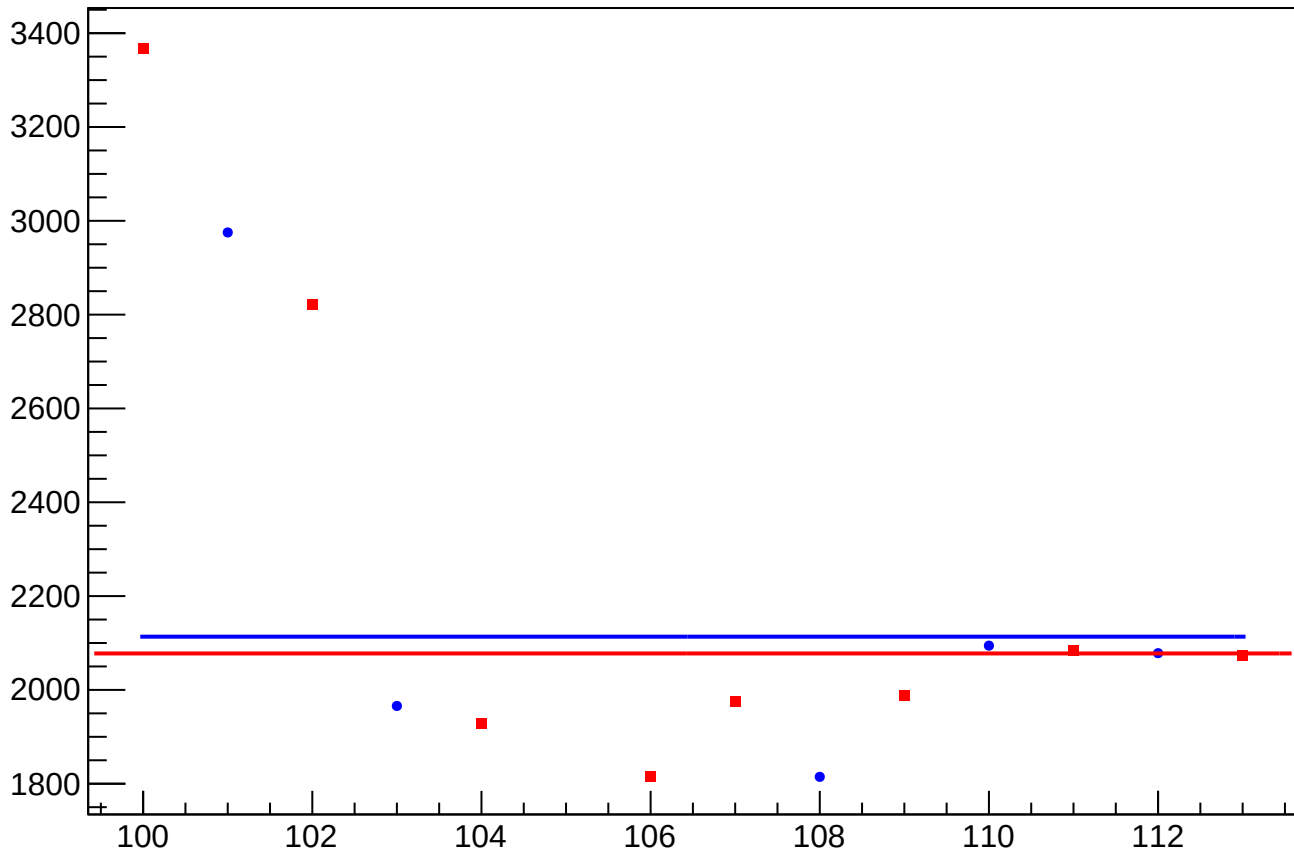
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1127.889+/-896.389  $\chi^2/\text{NDF}$ : 13.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2113.484 $\pm$ 0.957  $\chi^2$ /NDF: 138185.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

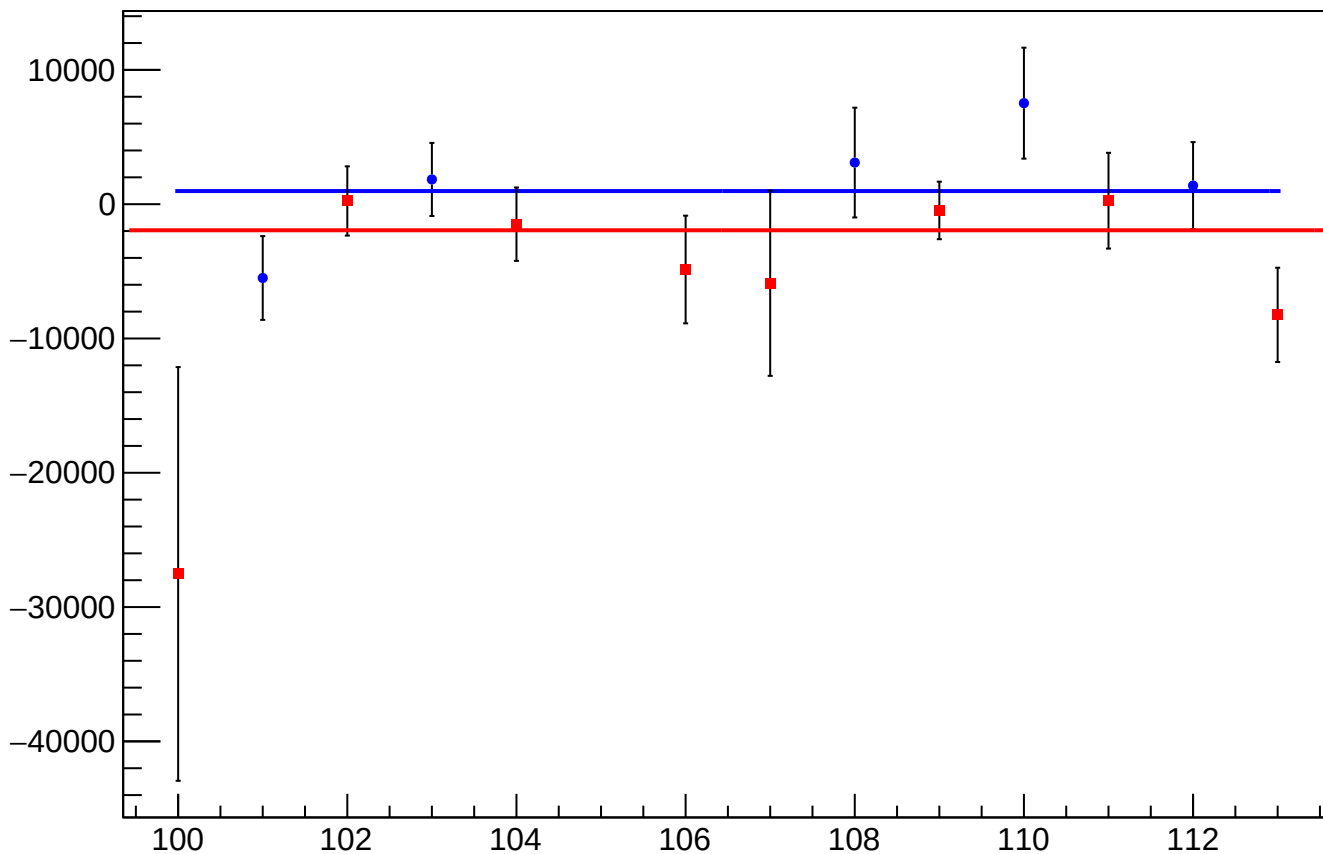
Right Out: 2077.718 $\pm$ 0.846  $\chi^2$ /NDF: 115635.5/7

All: 2093.405 $\pm$ 0.634  $\chi^2$ /NDF: 254605.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 978.027+/-1487.958  $\chi^2/\text{NDF}$ : 7.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1941.307+/-1155.115  $\chi^2/\text{NDF}$ : 8.4/7

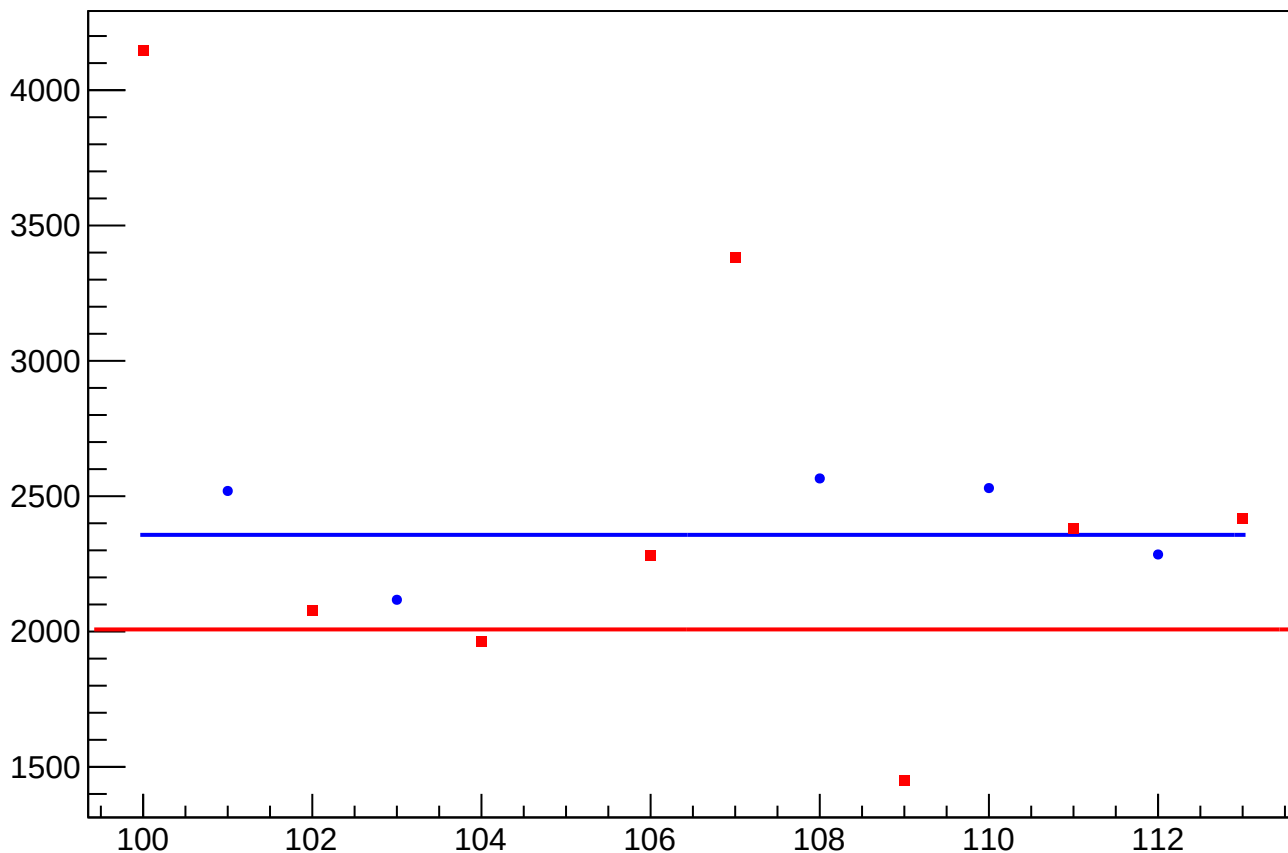
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -843.534+/-912.442  $\chi^2/\text{NDF}$ : 18.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 2357.181 $\pm$ 1.052  $\chi^2$ /NDF: 30643.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2007.813 $\pm$ 0.817  $\chi^2$ /NDF: 313642.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

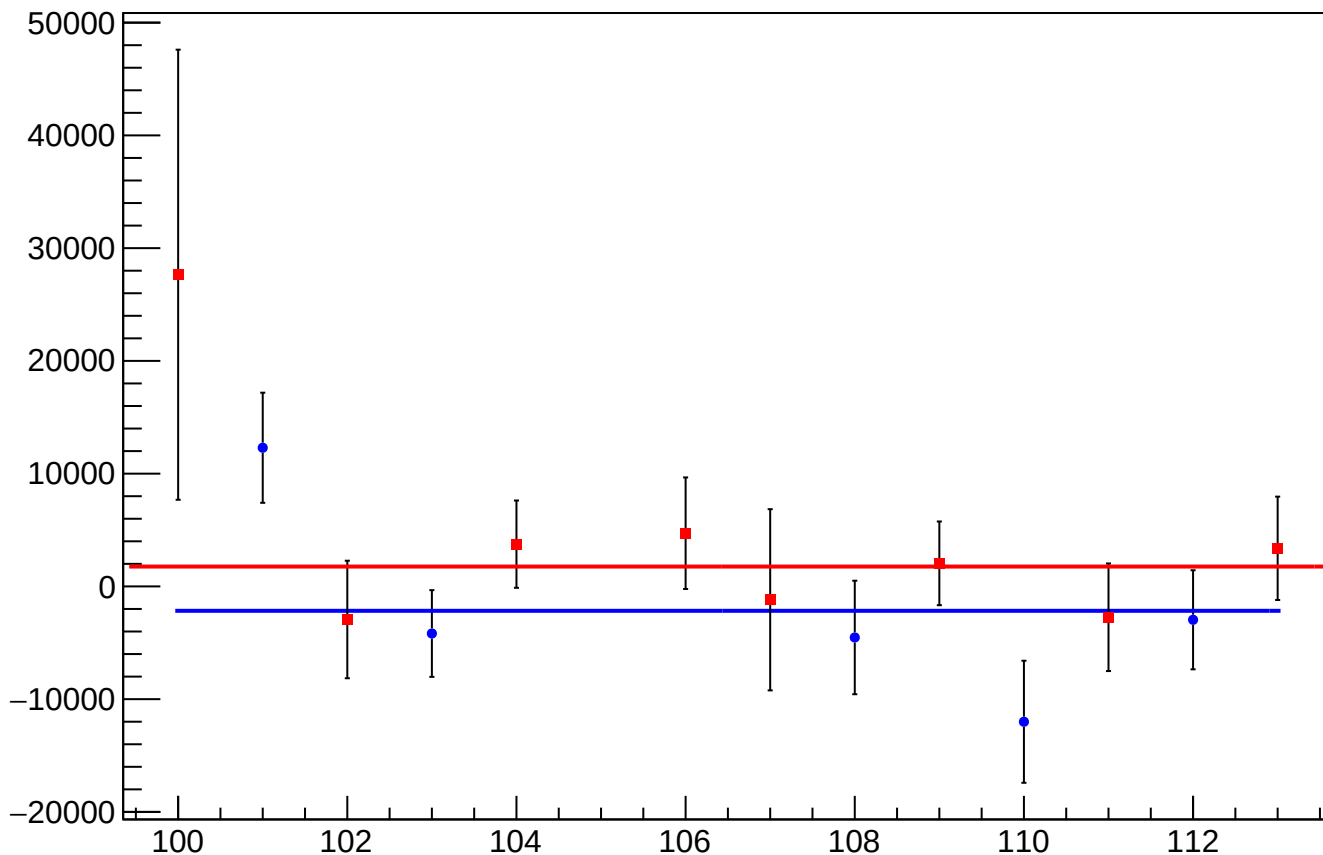
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2139.188 $\pm$ 0.645  $\chi^2$ /NDF: 413084.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -2164.338 $\pm$ 2062.863  $\chi^2$ /NDF: 12.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1760.724 $\pm$ 1750.036  $\chi^2$ /NDF: 4.3/7

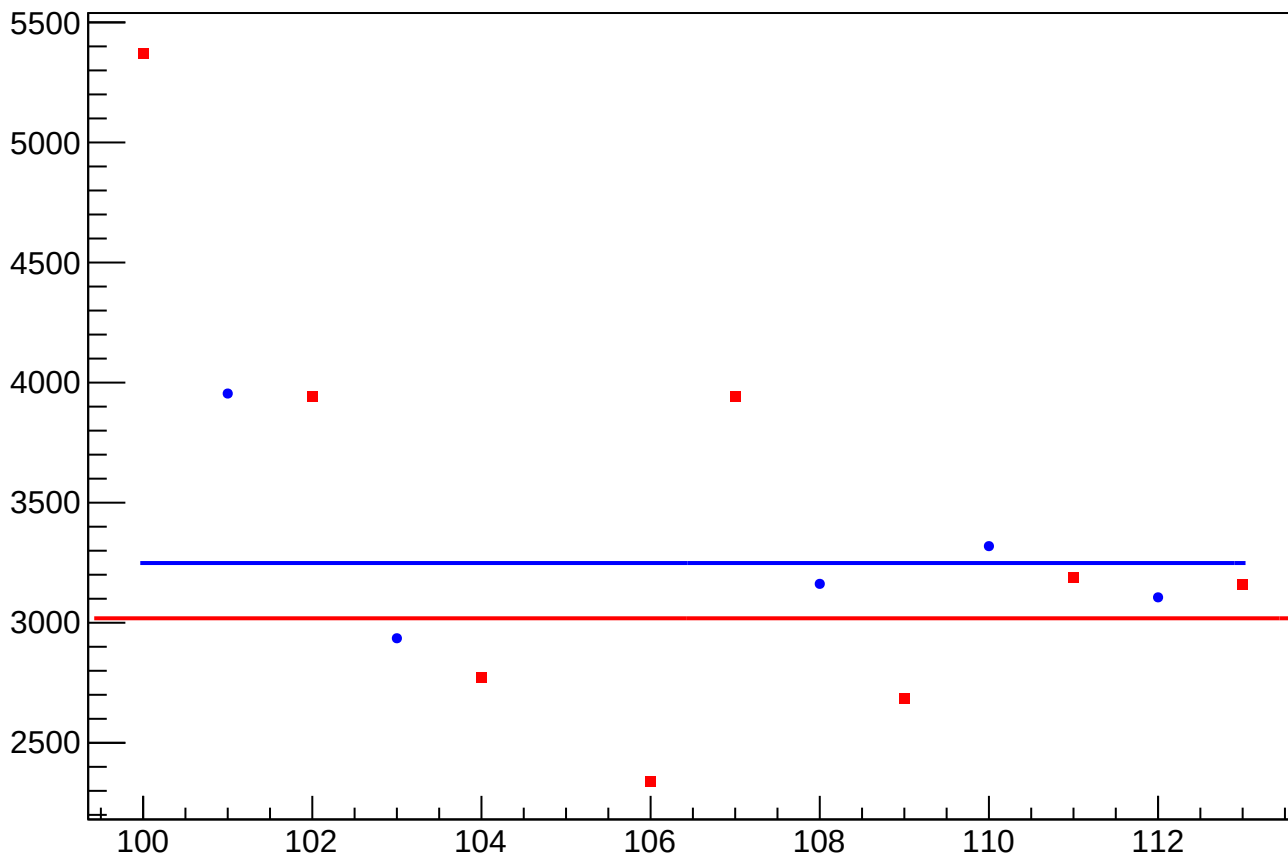
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 118.070 $\pm$ 1334.505  $\chi^2$ /NDF: 19.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 3248.672 $\pm$ 1.459  $\chi^2$ /NDF: 58104.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3018.573 $\pm$ 1.237  $\chi^2$ /NDF: 183780.6/7

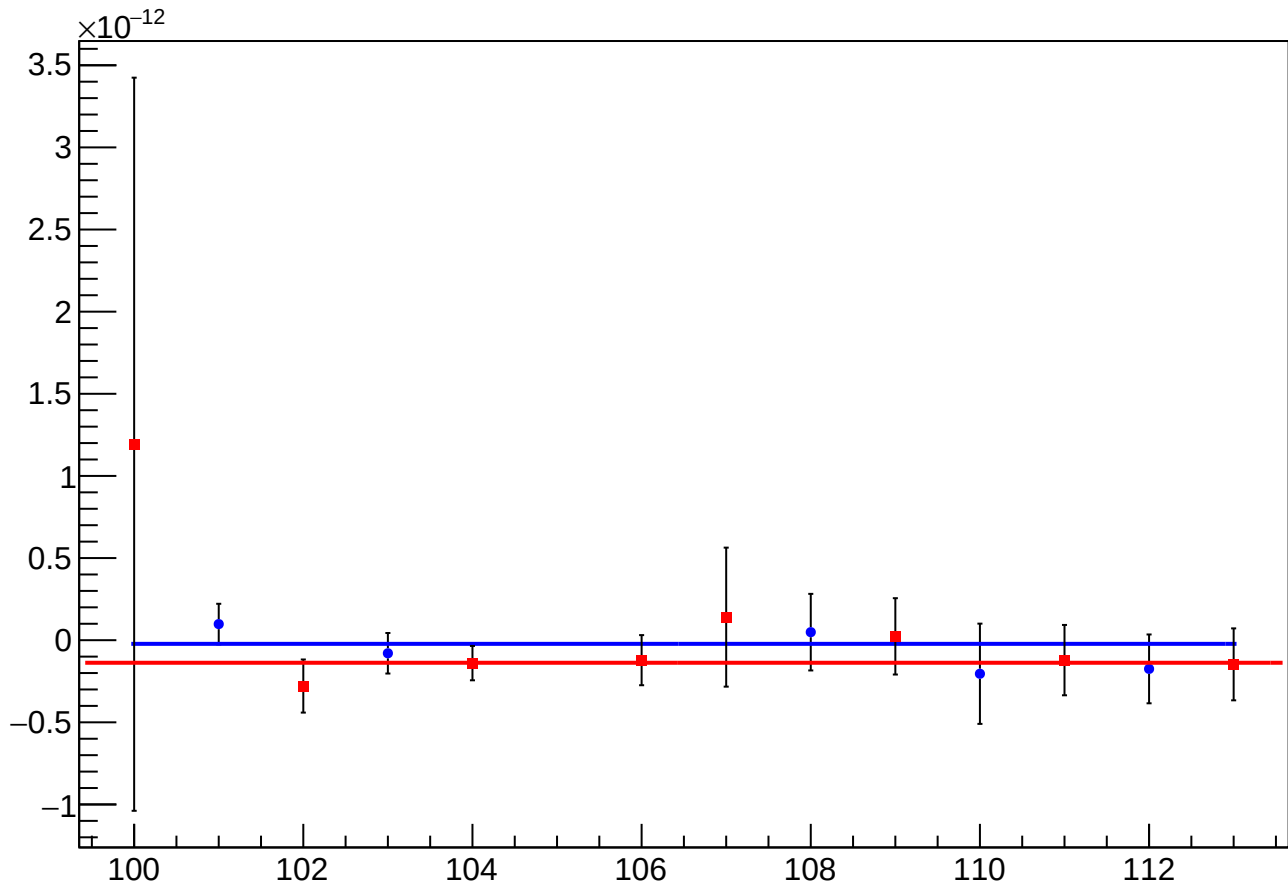
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3114.868 $\pm$ 0.944  $\chi^2$ /NDF: 256355.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.1/7

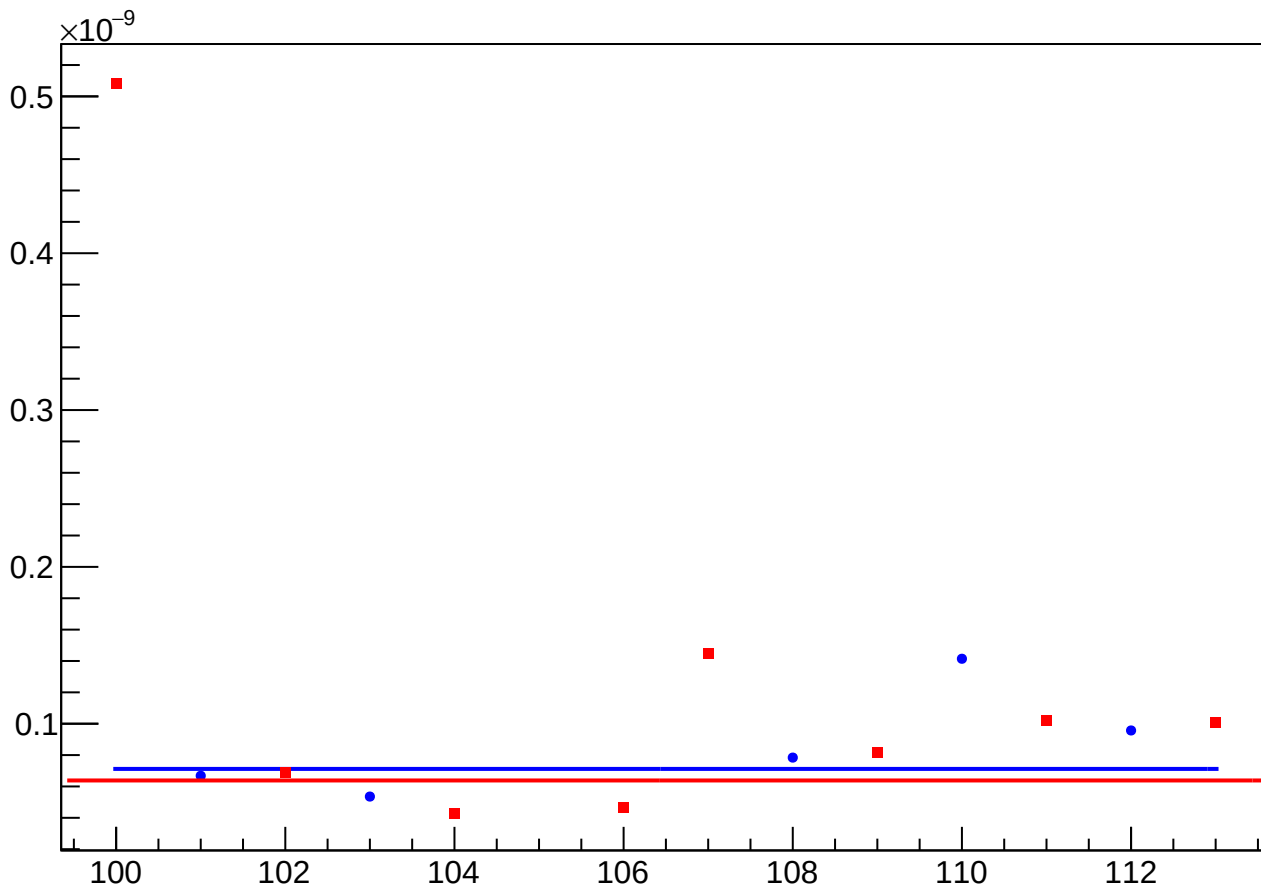
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 178617.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 394486.2/7

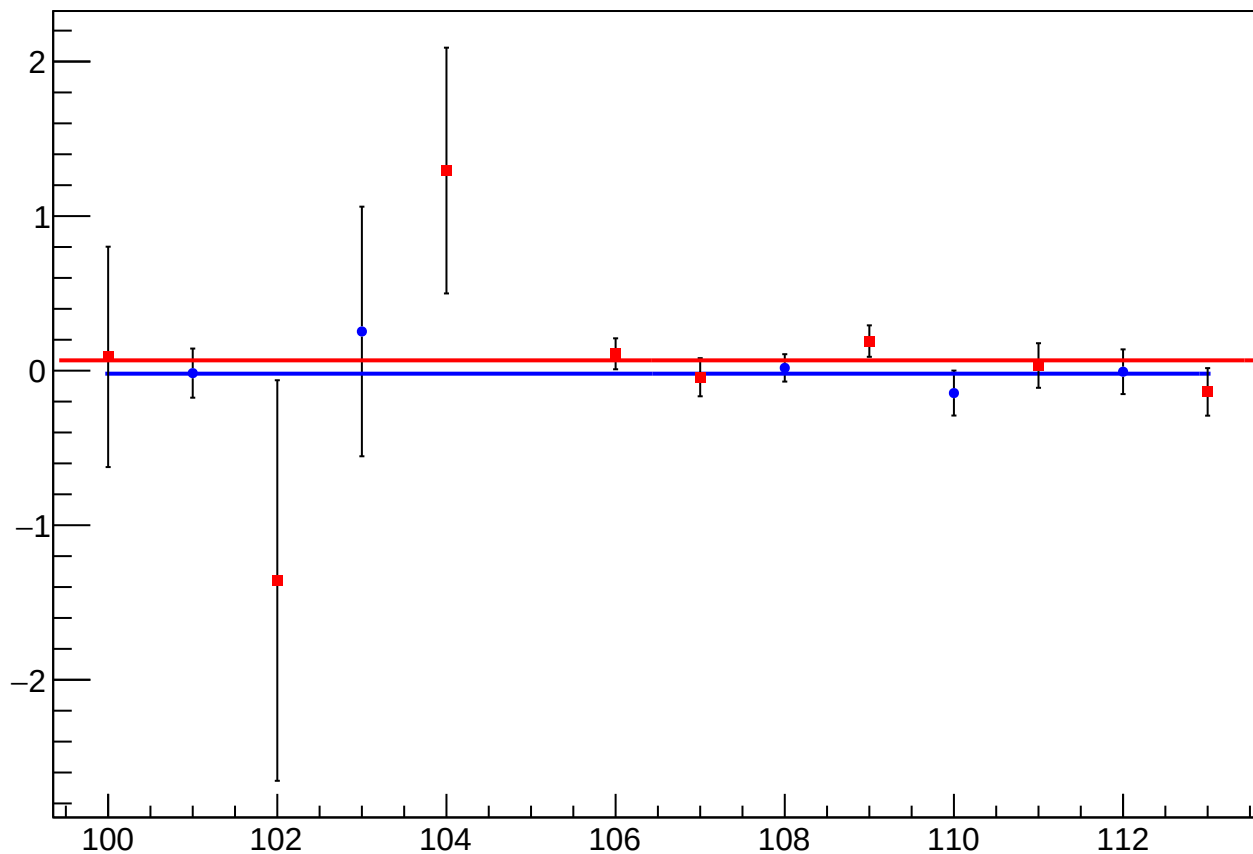
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 584372.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.020 \pm 0.062$   $\chi^2/\text{NDF}$ : 1.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.067 \pm 0.053$   $\chi^2/\text{NDF}$ : 7.9/7

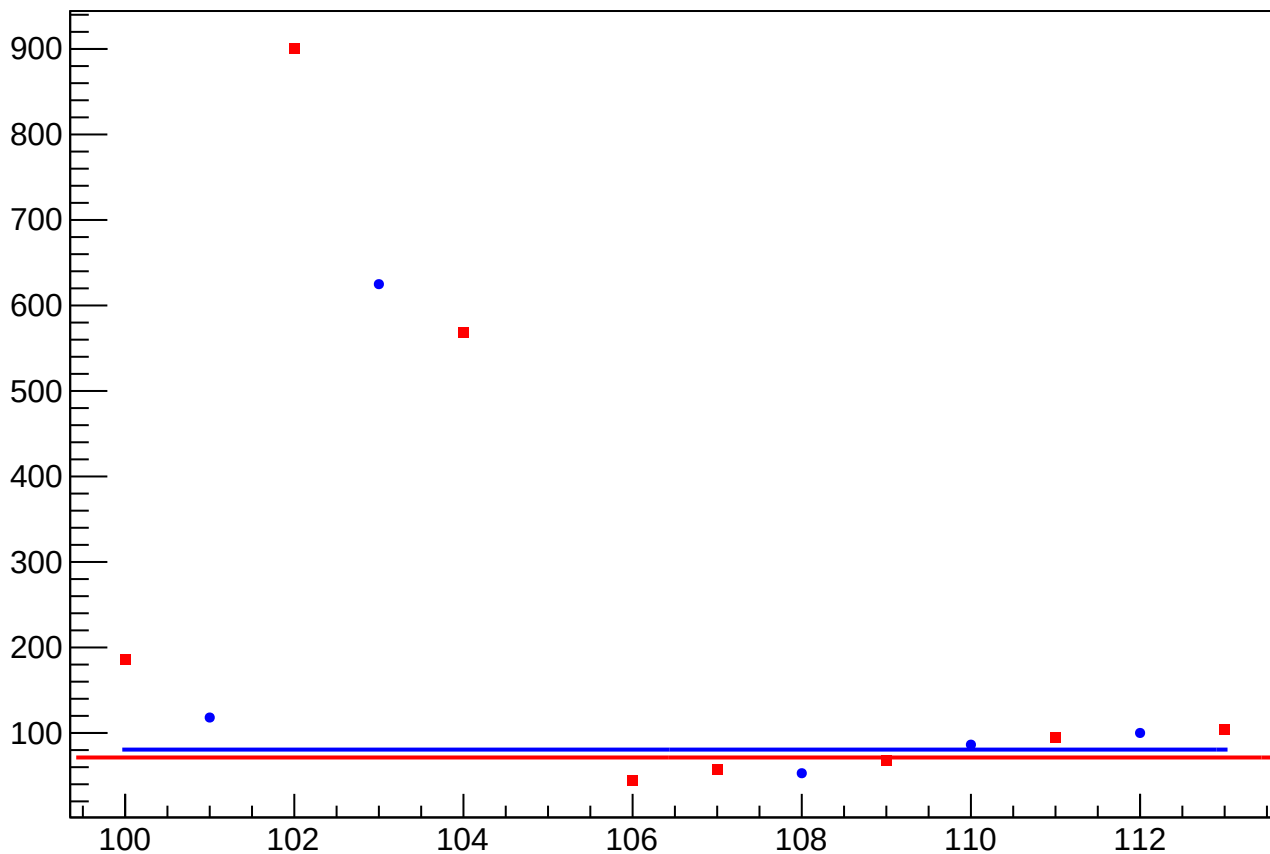
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.030 \pm 0.040$   $\chi^2/\text{NDF}$ : 10.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 80.561+/-0.044  $\chi^2/\text{NDF}$ : 1254366.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.329+/-0.037  $\chi^2/\text{NDF}$ : 1976224.0/7

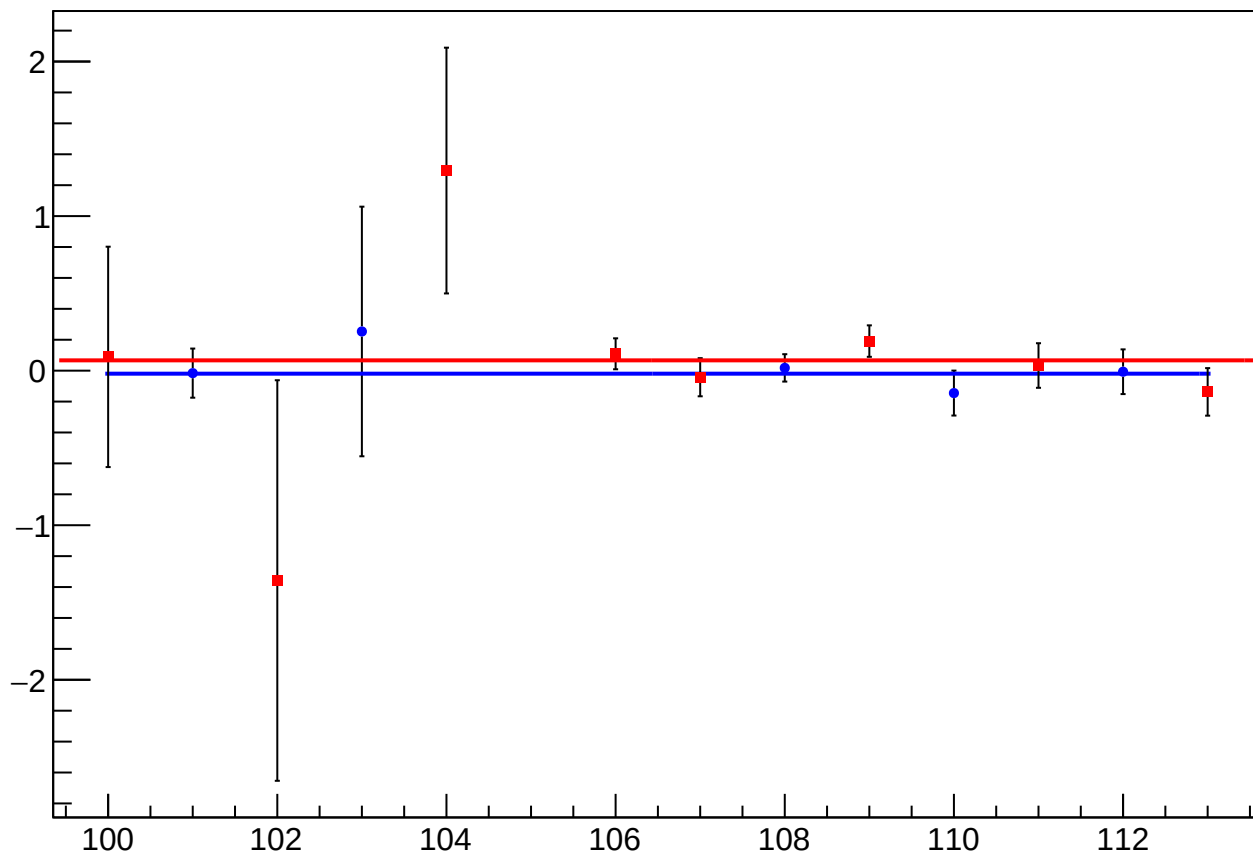
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.255+/-0.028  $\chi^2/\text{NDF}$ : 3256427.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.020+/-0.062  $\chi^2/\text{NDF}$ : 1.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.067+/-0.053  $\chi^2/\text{NDF}$ : 7.9/7

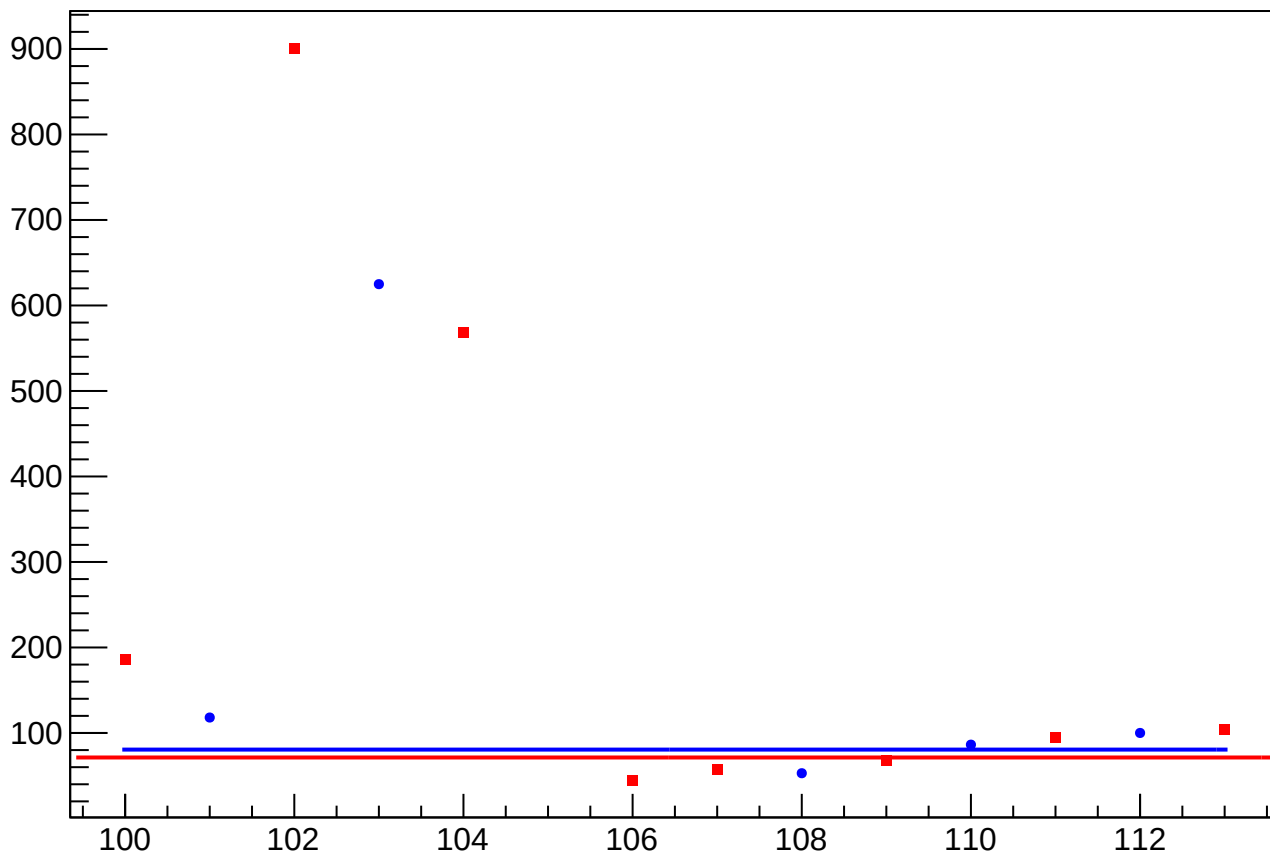
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.030+/-0.040  $\chi^2/\text{NDF}$ : 10.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 80.561+/-0.044  $\chi^2/\text{NDF}$ : 1254366.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.329+/-0.037  $\chi^2/\text{NDF}$ : 1976224.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

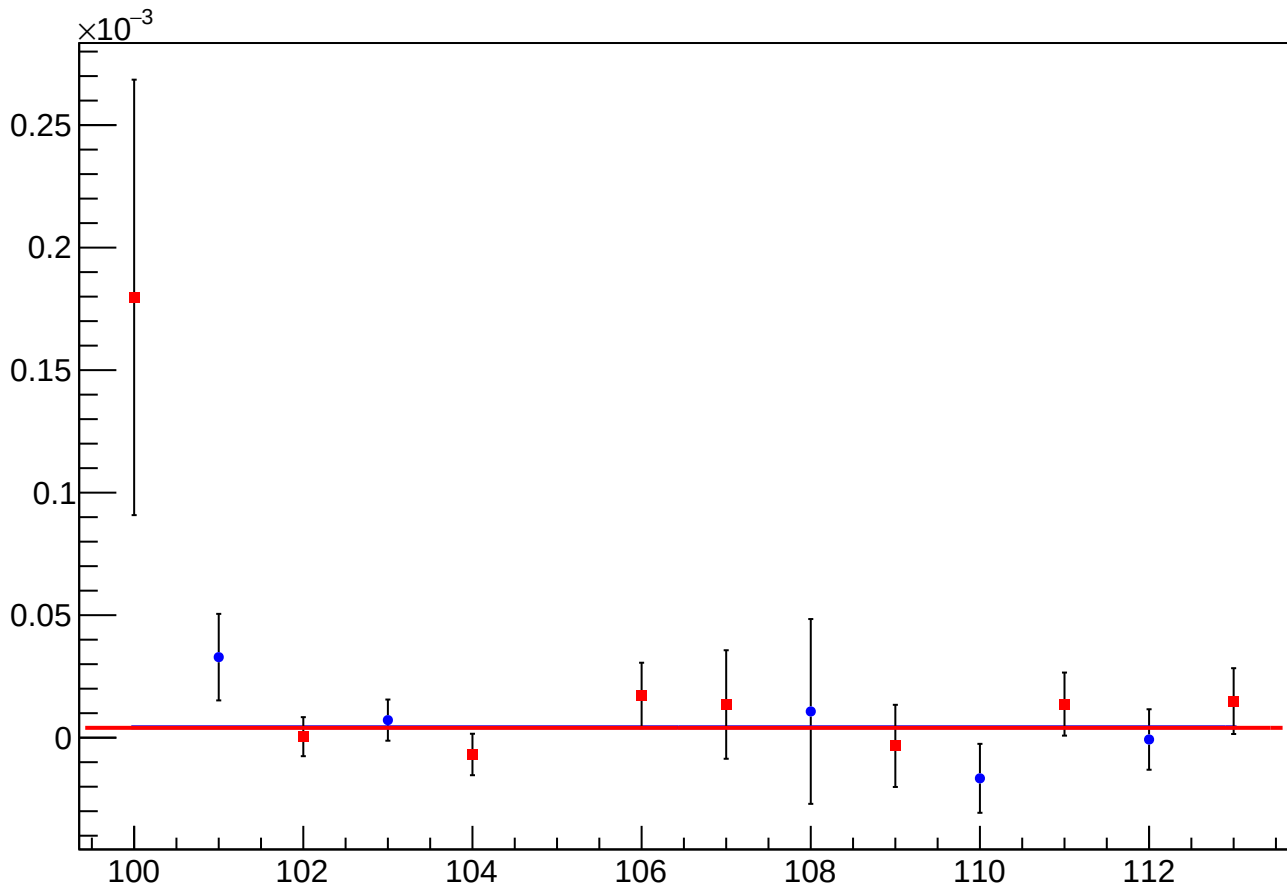
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.255+/-0.028  $\chi^2/\text{NDF}$ : 3256427.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.4/7

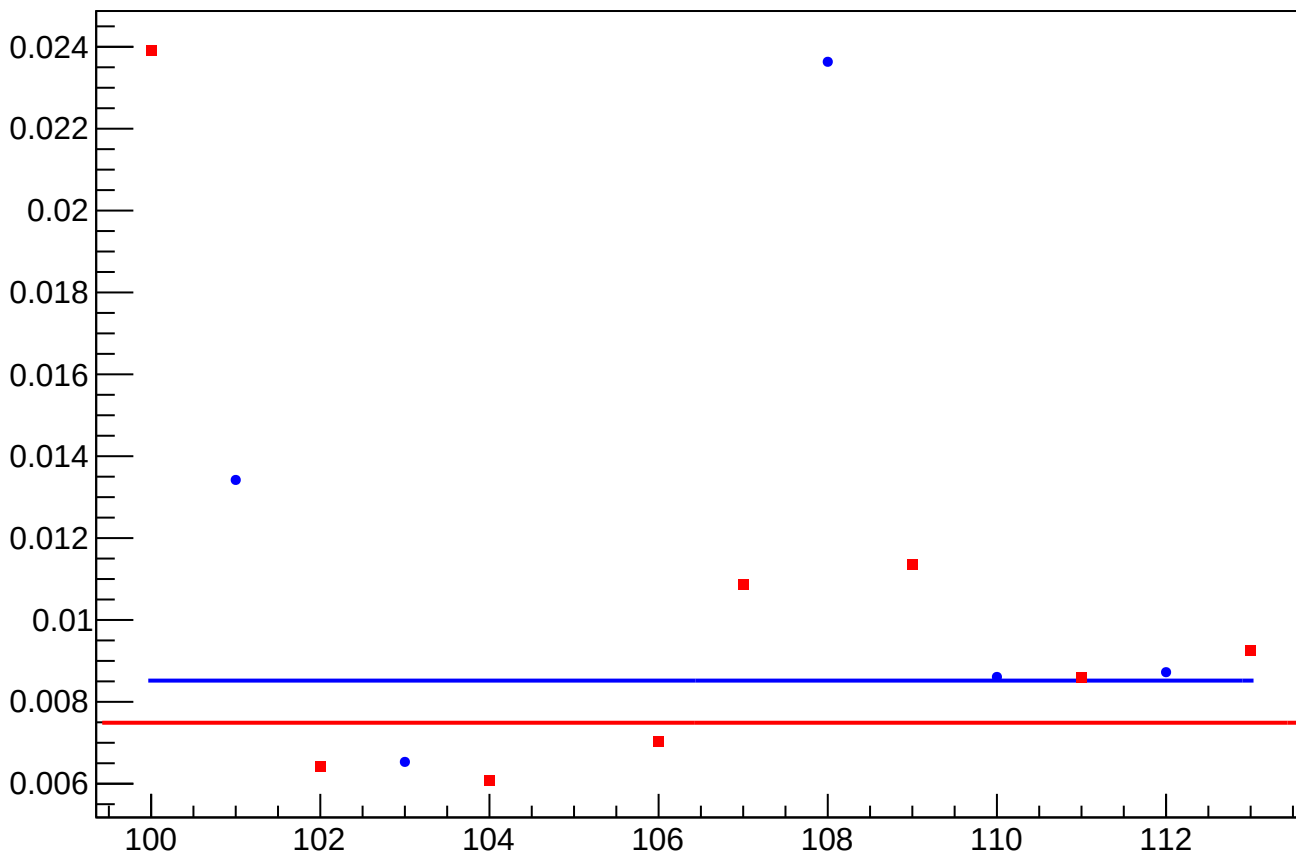
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 587849.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 364595.2/7

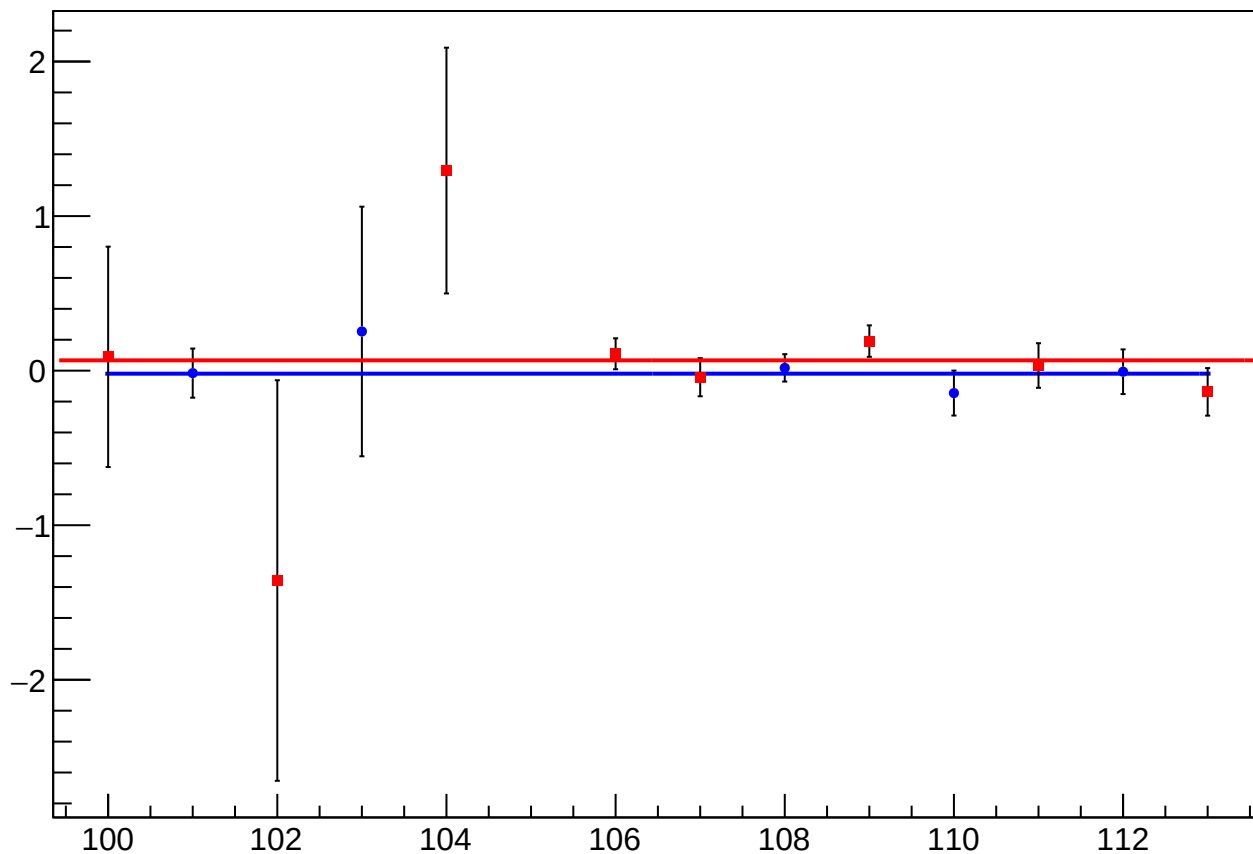
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 992690.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.020 $\pm$ 0.062  $\chi^2$ /NDF: 1.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.067 $\pm$ 0.053  $\chi^2$ /NDF: 7.9/7

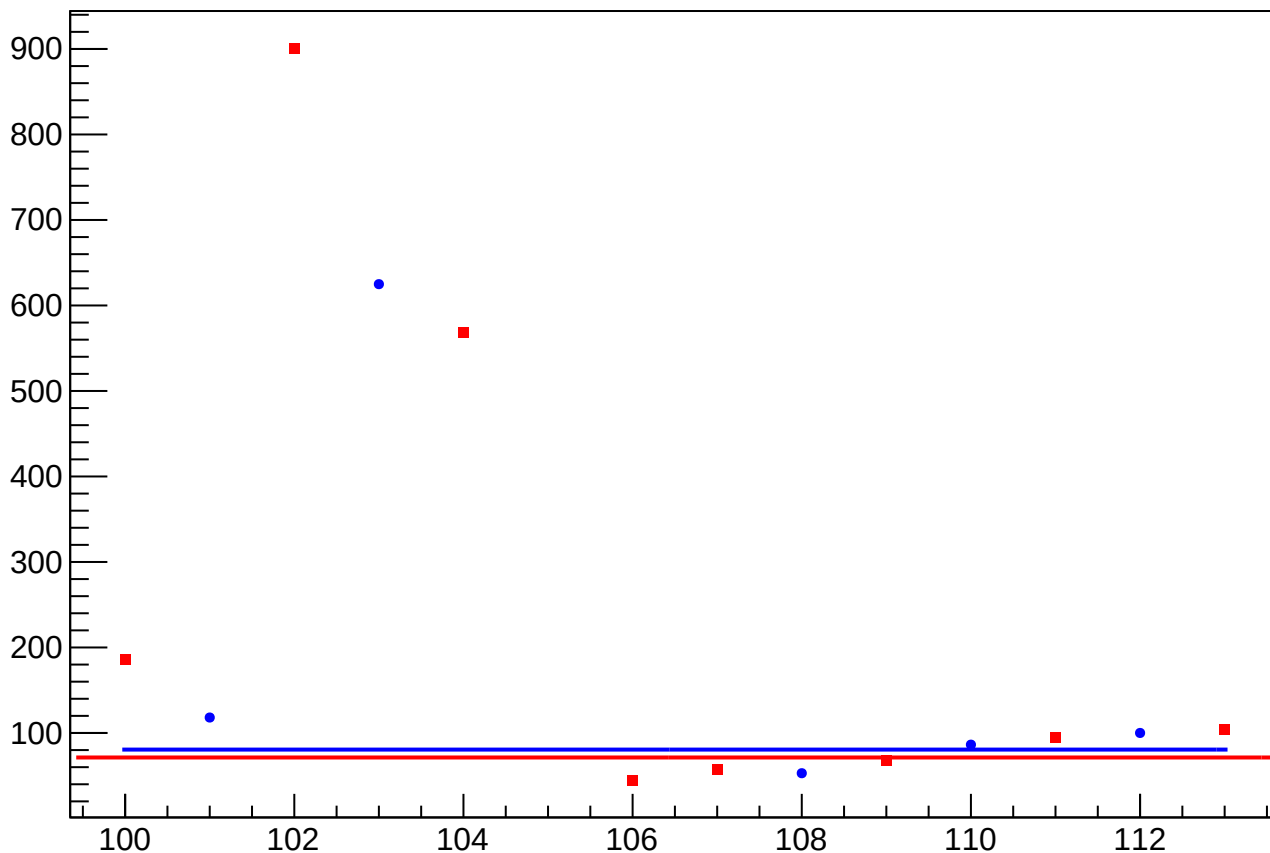
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.030 $\pm$ 0.040  $\chi^2$ /NDF: 10.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 80.569+/-0.044  $\chi^2/\text{NDF}$ : 1254215.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.329+/-0.037  $\chi^2/\text{NDF}$ : 1976222.4/7

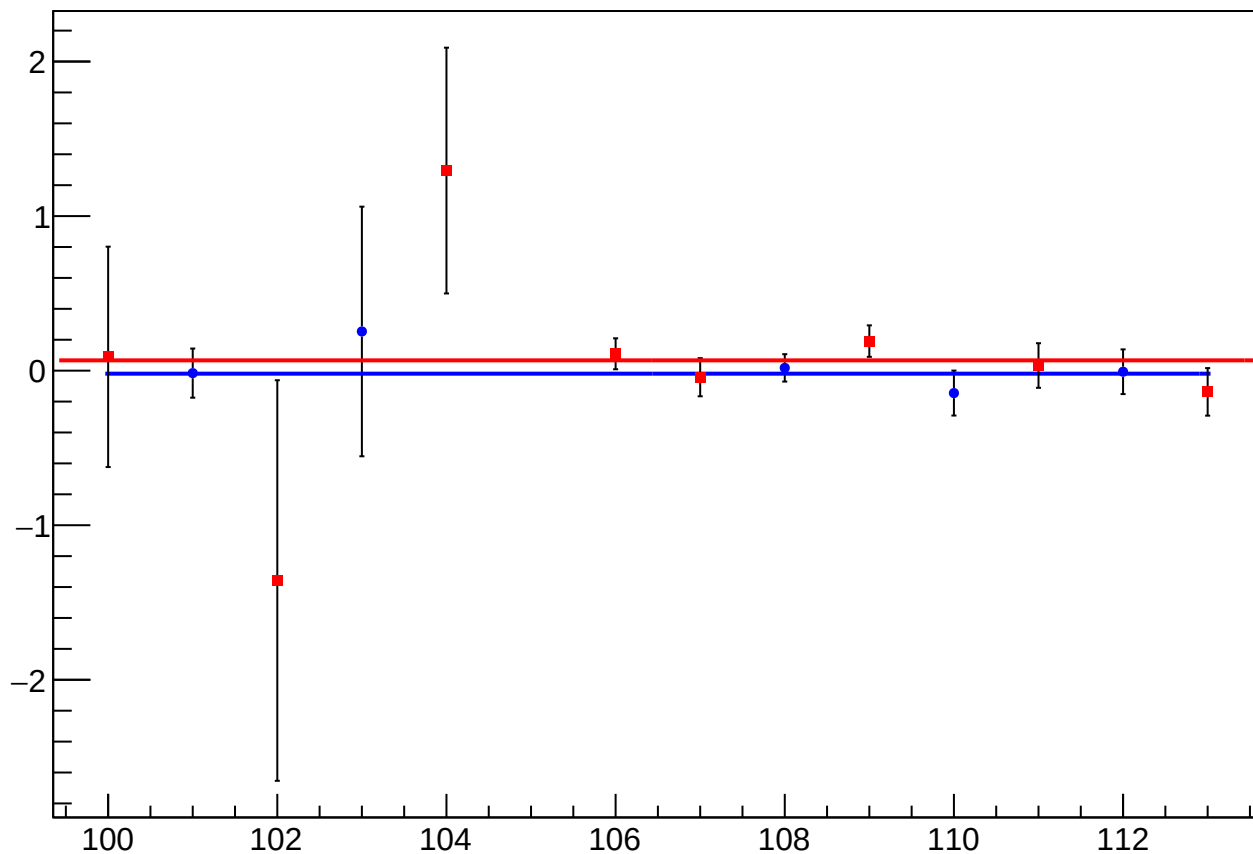
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.258+/-0.028  $\chi^2/\text{NDF}$ : 3256320.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.020+/-0.062  $\chi^2/\text{NDF}$ : 1.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.067+/-0.053  $\chi^2/\text{NDF}$ : 7.9/7

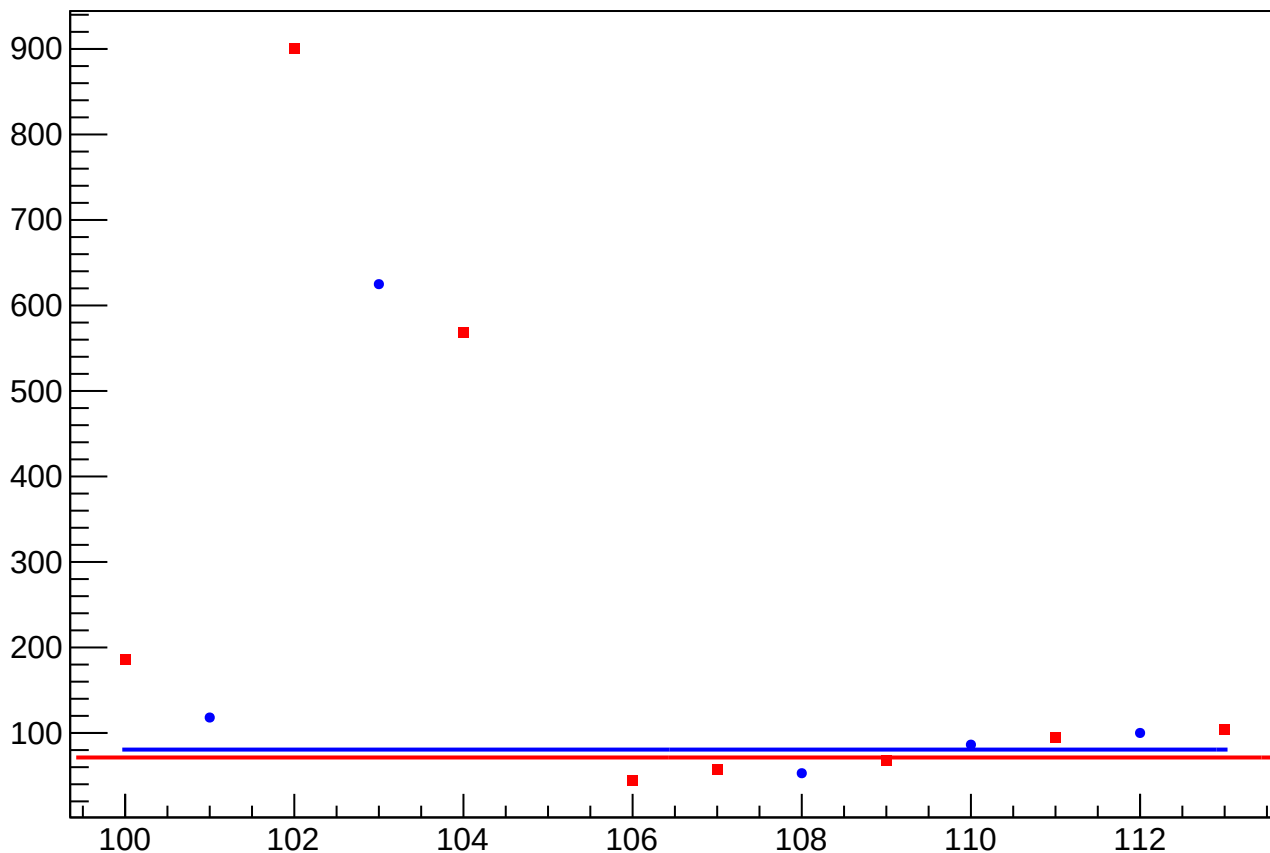
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.030+/-0.040  $\chi^2/\text{NDF}$ : 10.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 80.569+/-0.044  $\chi^2/\text{NDF}$ : 1254215.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.329+/-0.037  $\chi^2/\text{NDF}$ : 1976222.4/7

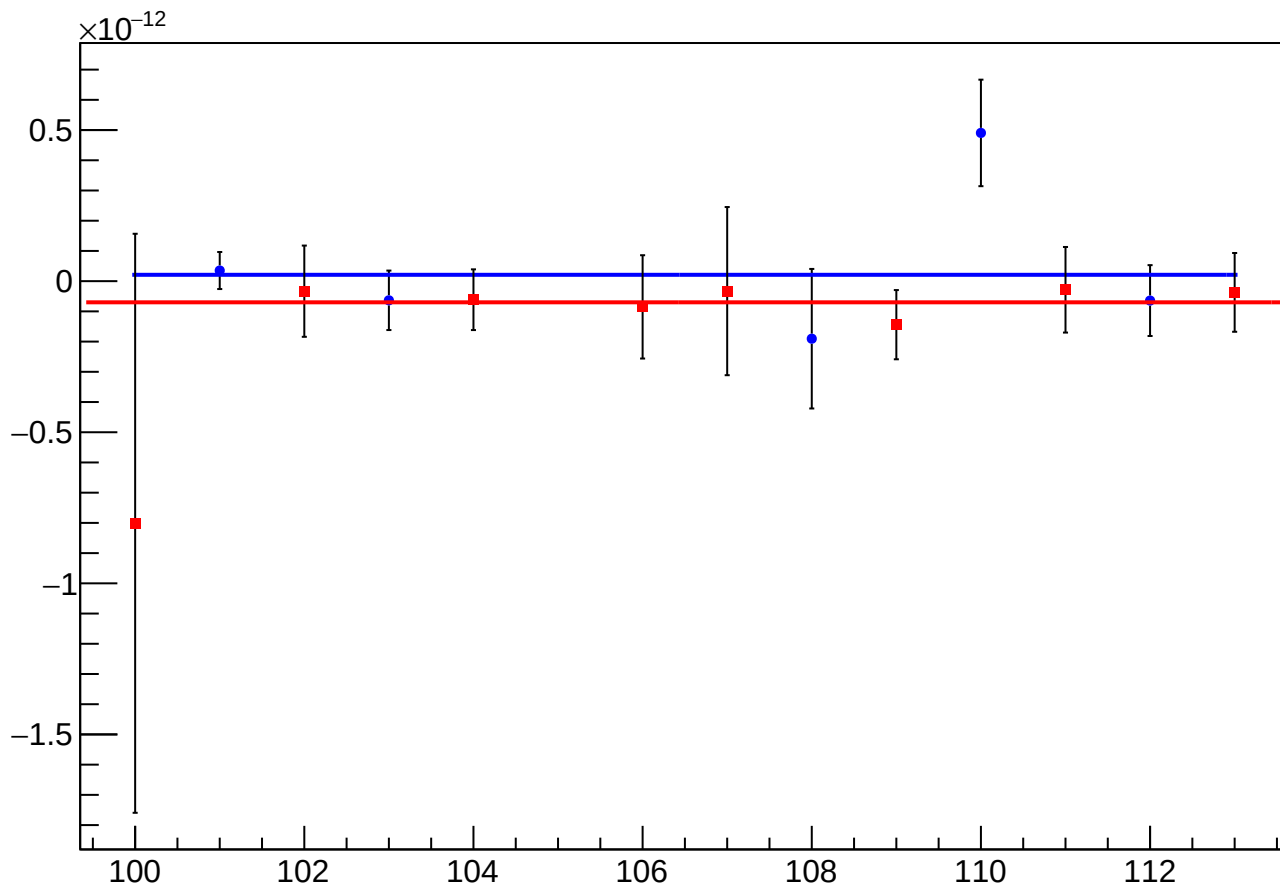
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.258+/-0.028  $\chi^2/\text{NDF}$ : 3256320.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.2/7

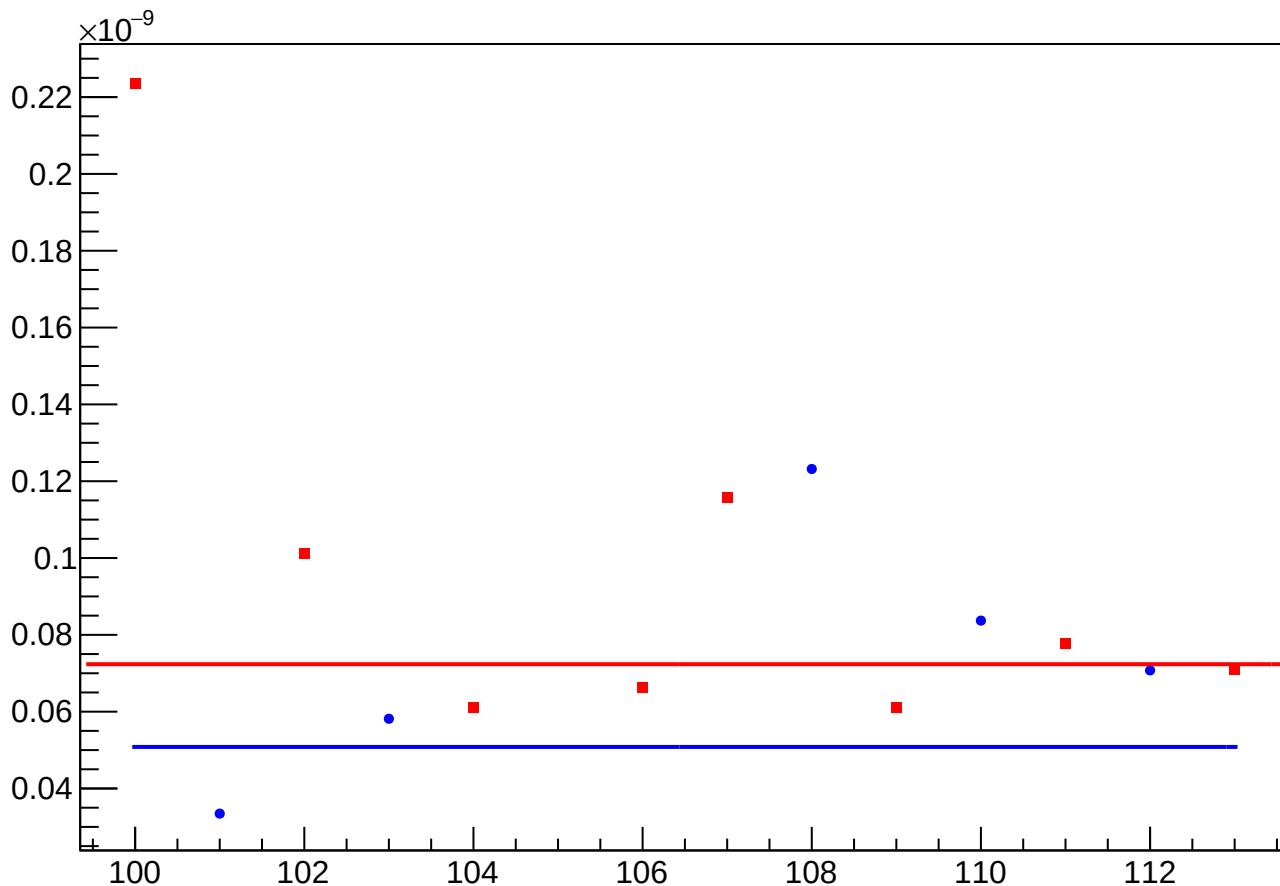
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 495482.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 220958.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

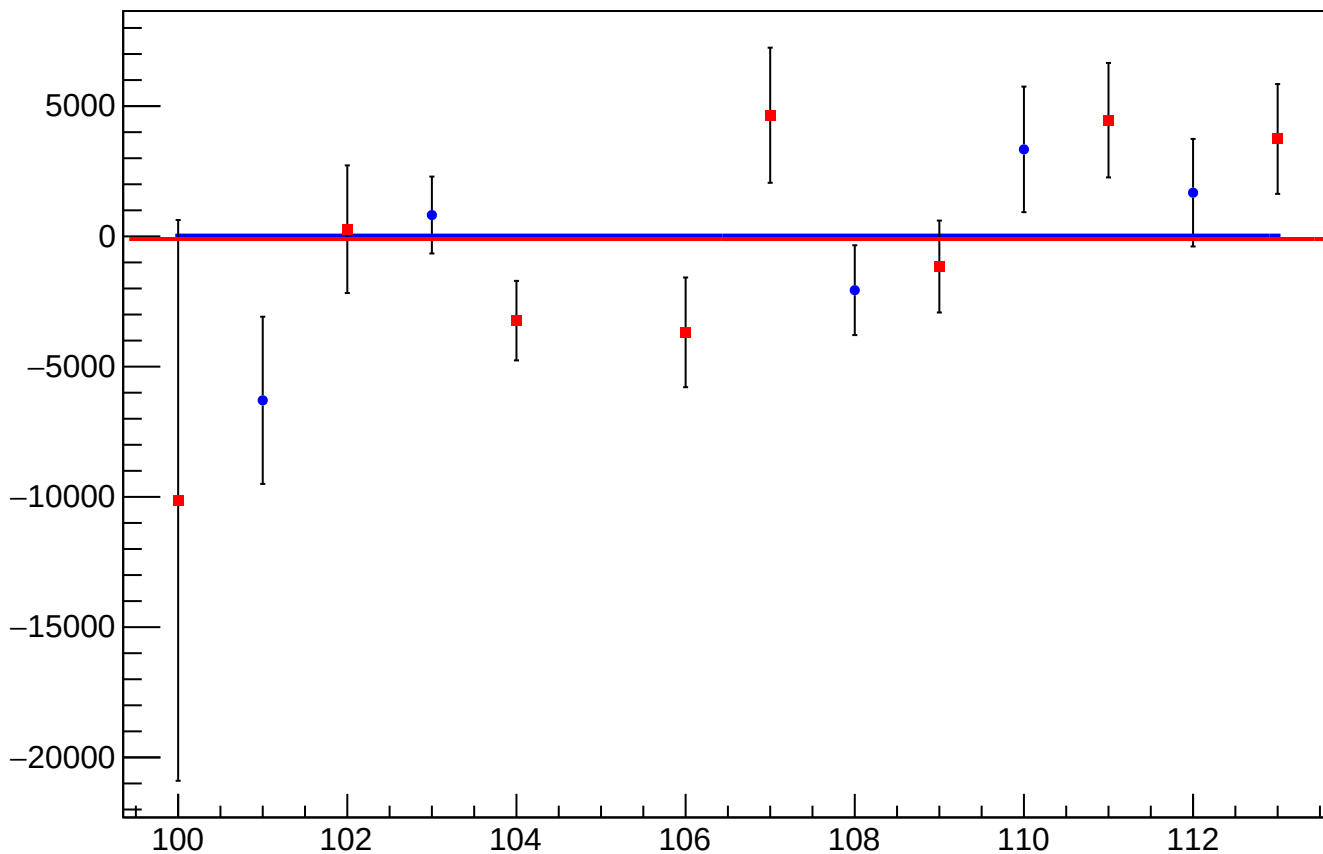
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 914335.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 29.851+/-877.129  $\chi^2/\text{NDF}$ : 8.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -101.184+/-759.821  $\chi^2/\text{NDF}$ : 19.3/7

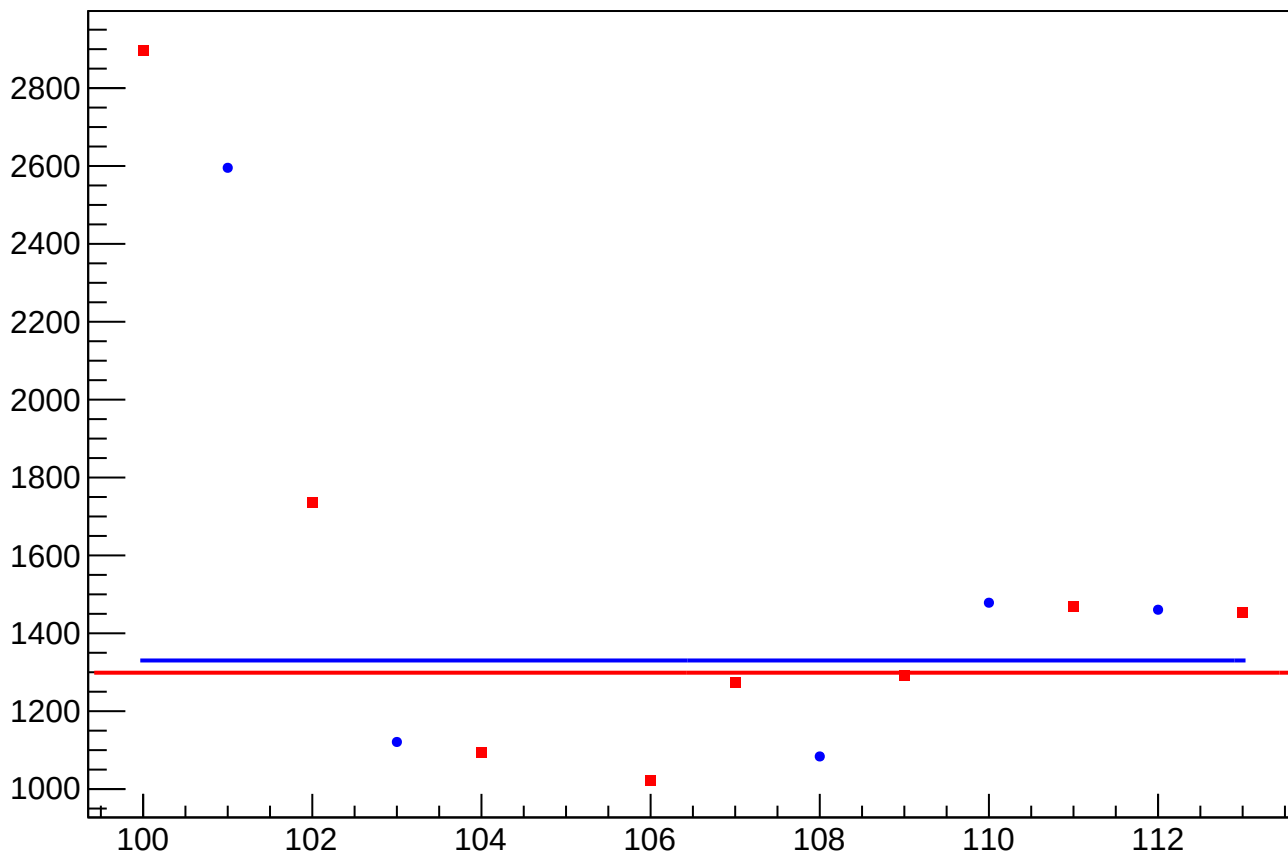
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -45.009+/-574.304  $\chi^2/\text{NDF}$ : 27.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1330.217 $\pm$ 0.620  $\chi^2$ /NDF: 407556.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1298.826 $\pm$ 0.537  $\chi^2$ /NDF: 201155.7/7

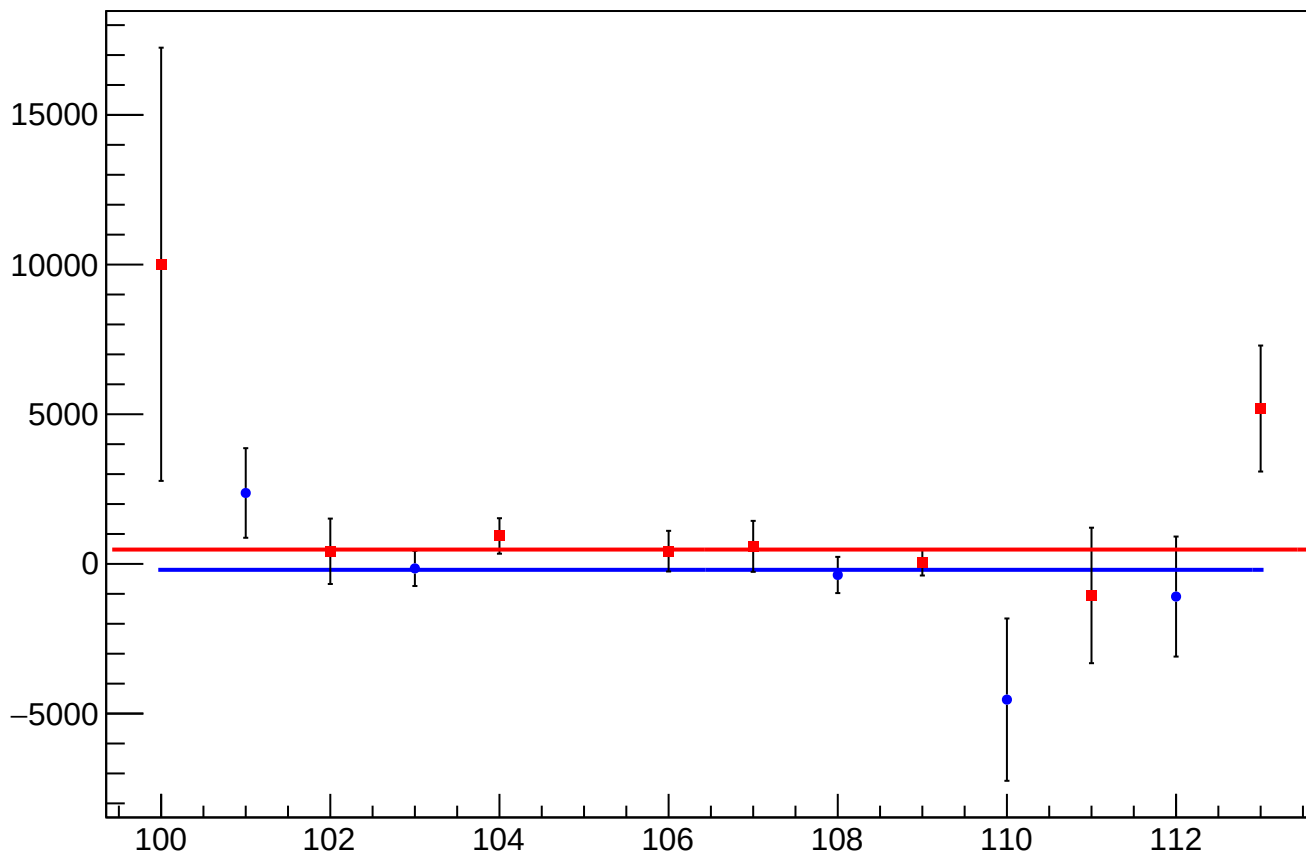
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1312.284 $\pm$ 0.406  $\chi^2$ /NDF: 610175.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_reg\_correction\_mean vs Slug



Right In: -197.585+/-393.508  $\chi^2/\text{NDF}$ : 5.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 479.359+/-278.761  $\chi^2/\text{NDF}$ : 8.8/7

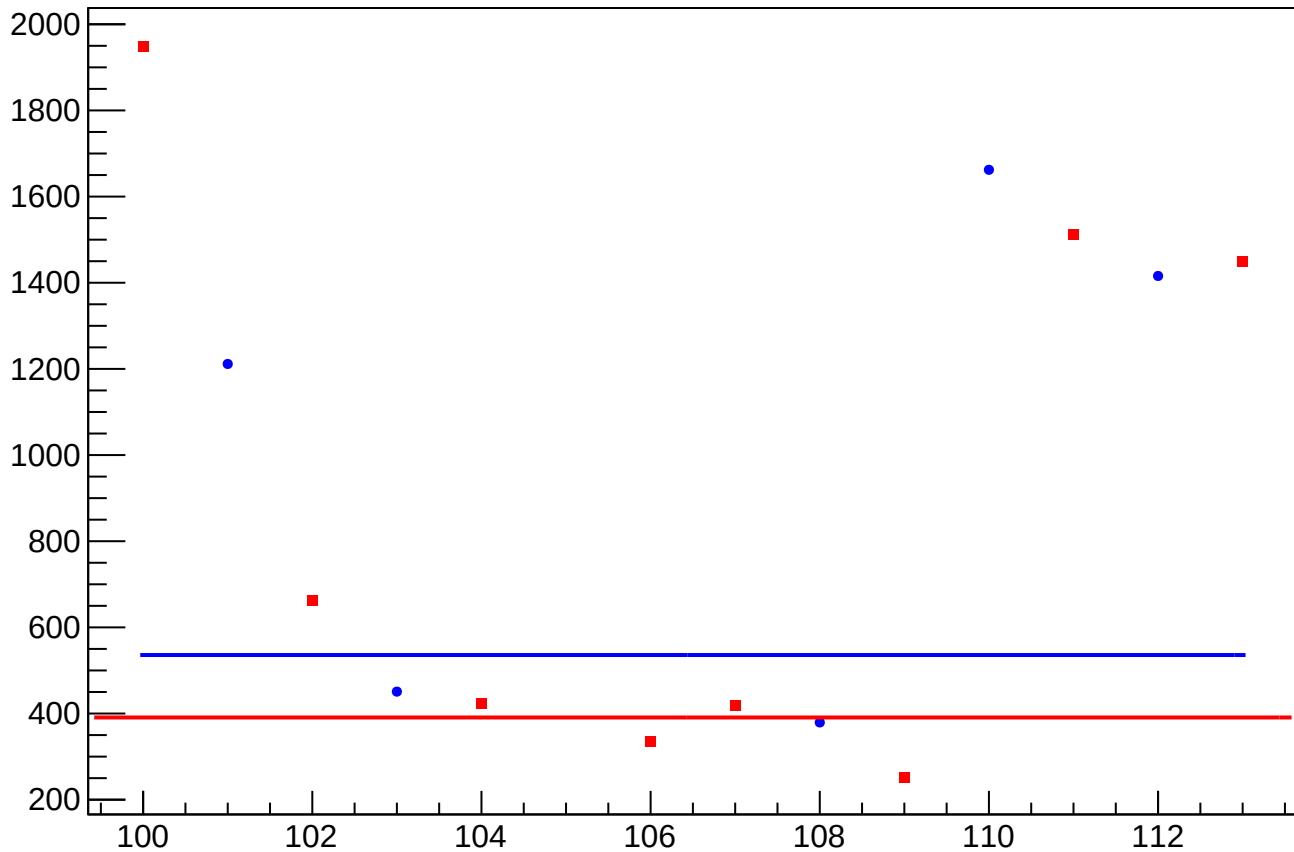
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 253.161+/-227.469  $\chi^2/\text{NDF}$ : 16.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_reg\_correction\_rms vs Slug



Right In: 535.831+/-0.278  $\chi^2/\text{NDF}$ : 1313634.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 390.869+/-0.197  $\chi^2/\text{NDF}$ : 1438279.0/7

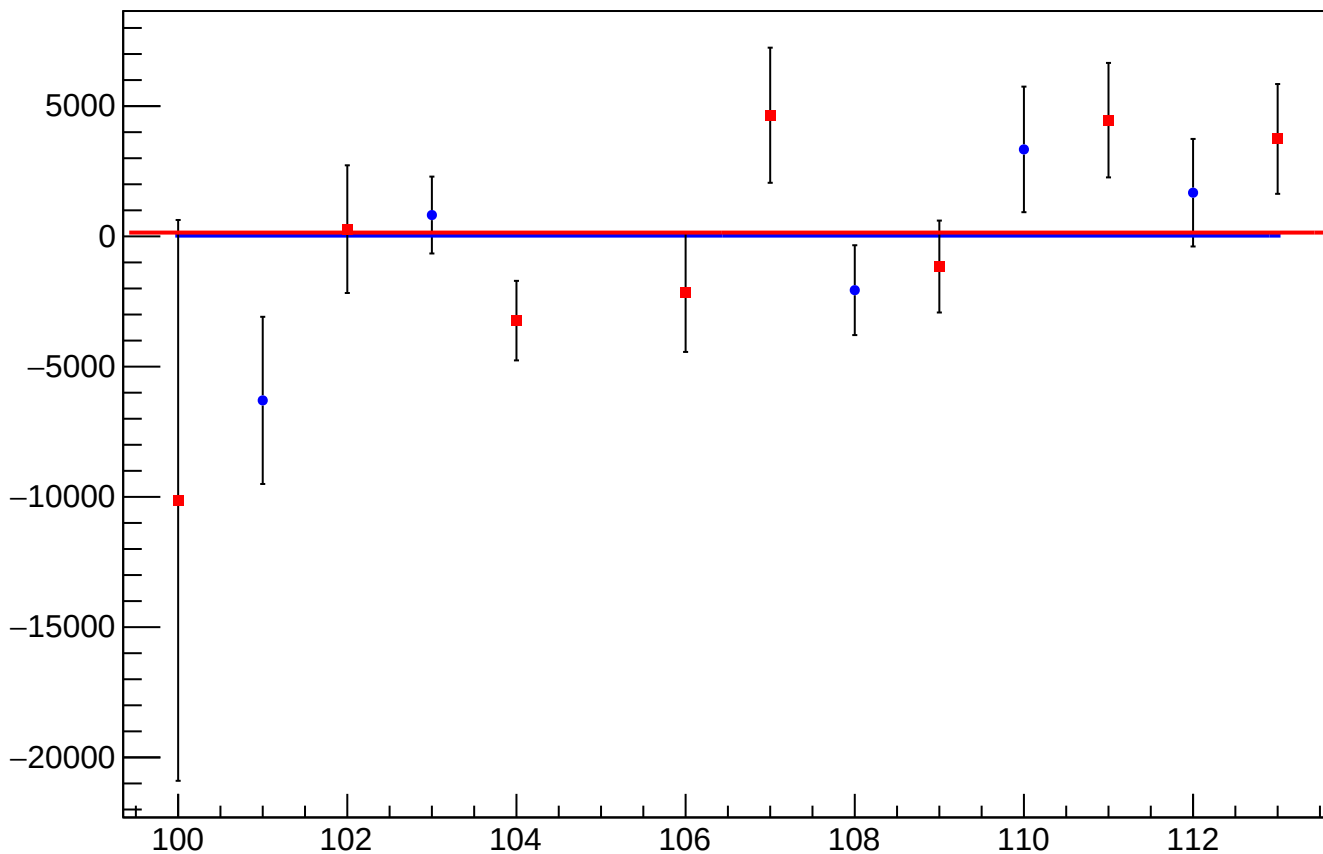
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 439.308+/-0.161  $\chi^2/\text{NDF}$ : 2932635.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

cor\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 29.619+/-877.129  $\chi^2/\text{NDF}$ : 8.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 145.786+/-767.594  $\chi^2/\text{NDF}$ : 17.1/7

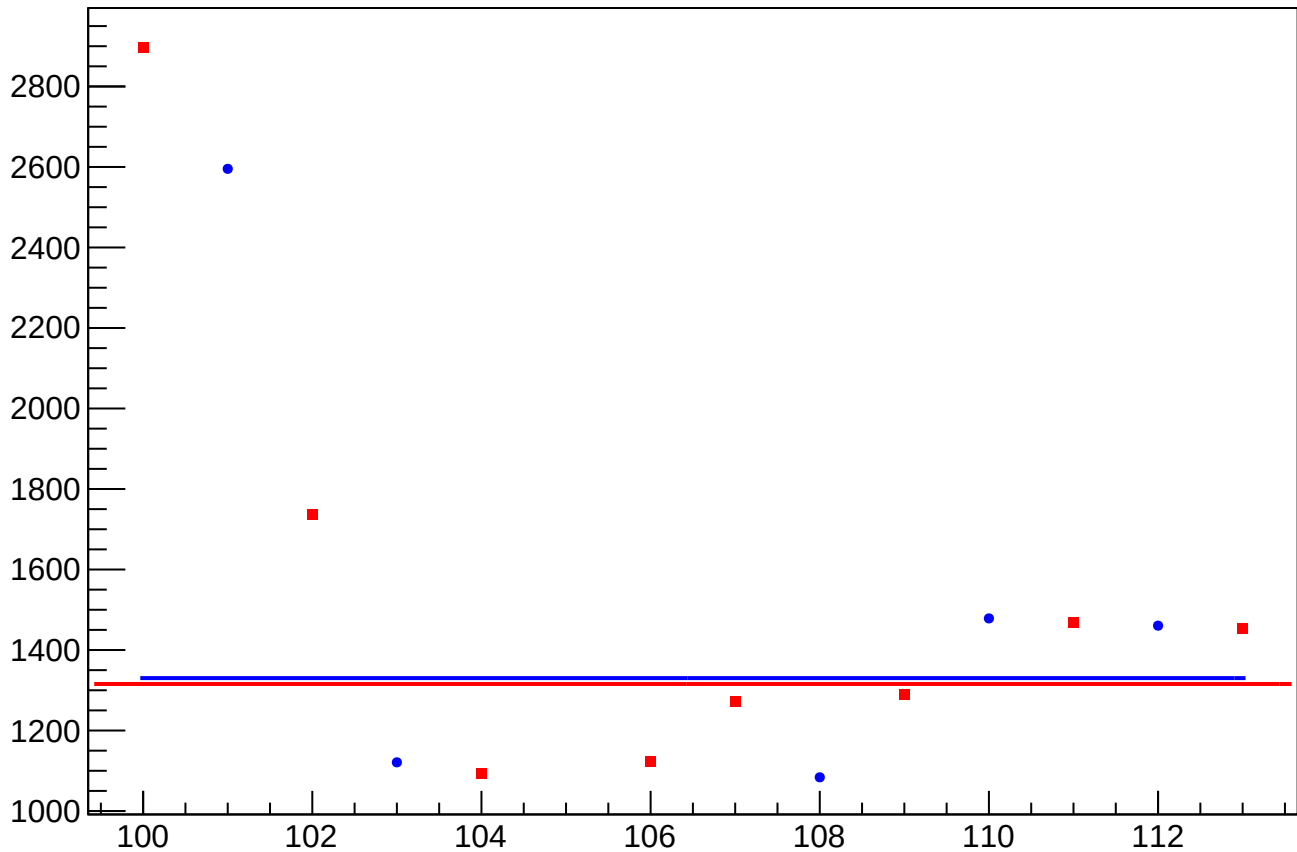
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.405+/-577.639  $\chi^2/\text{NDF}$ : 25.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1330.217 $\pm$ 0.620  $\chi^2$ /NDF: 407556.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1315.646 $\pm$ 0.543  $\chi^2$ /NDF: 177741.1/7

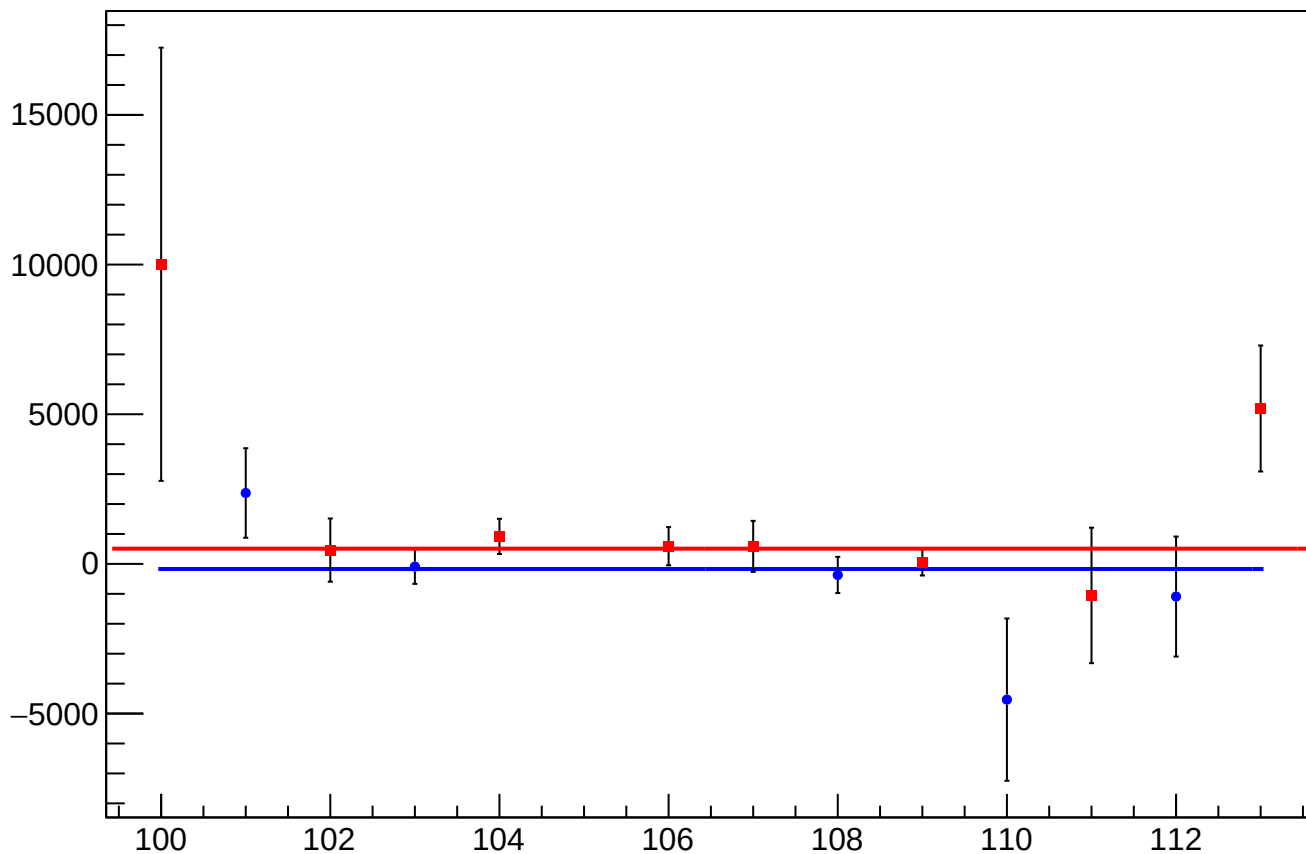
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1321.965 $\pm$ 0.408  $\chi^2$ /NDF: 585610.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_cor\_correction\_mean vs Slug



Right In: -169.424 $\pm$ 390.103  $\chi^2$ /NDF: 5.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 509.256 $\pm$ 274.731  $\chi^2$ /NDF: 8.7/7

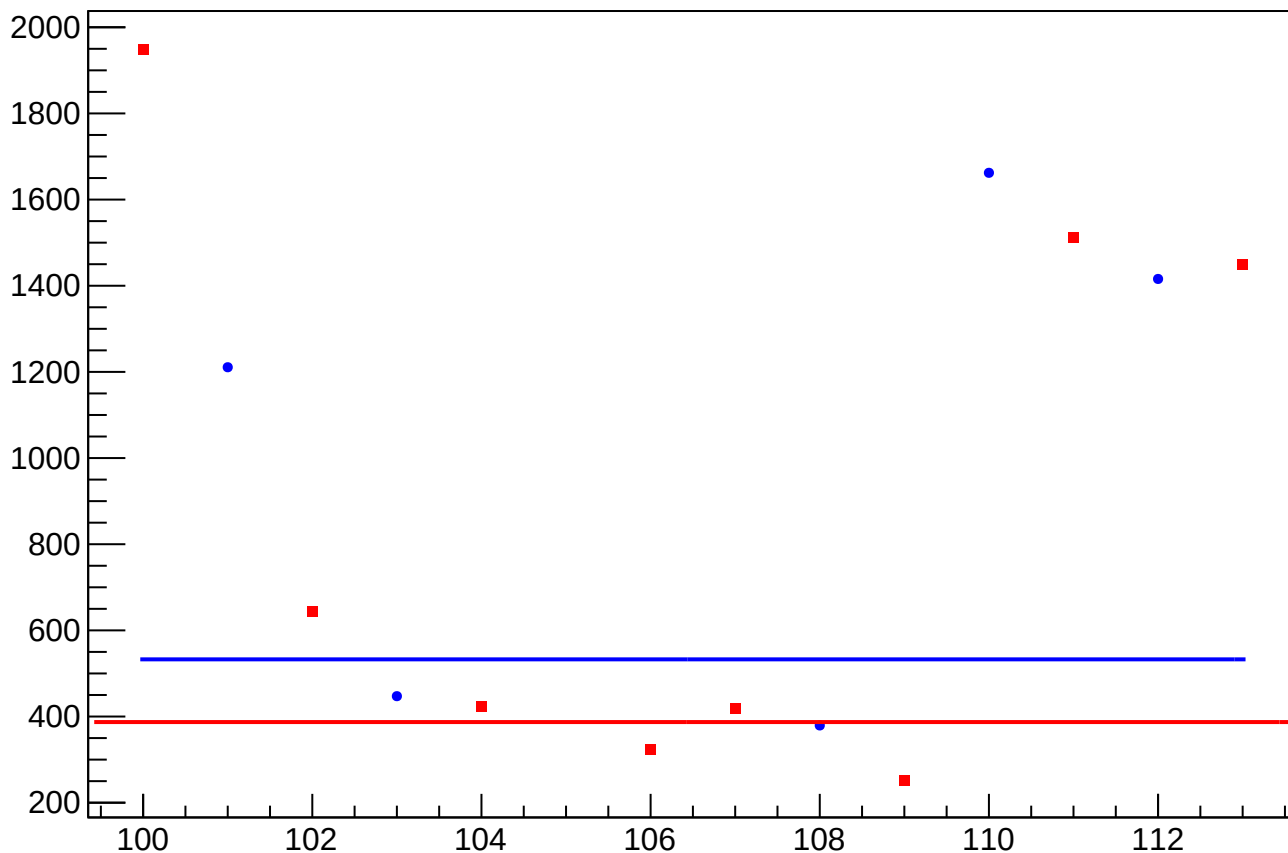
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 284.248 $\pm$ 224.619  $\chi^2$ /NDF: 16.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_cor\_correction\_rms vs Slug



Right In: 532.729+/-0.276  $\chi^2/\text{NDF}$ : 1318516.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 387.169+/-0.194  $\chi^2/\text{NDF}$ : 1436633.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

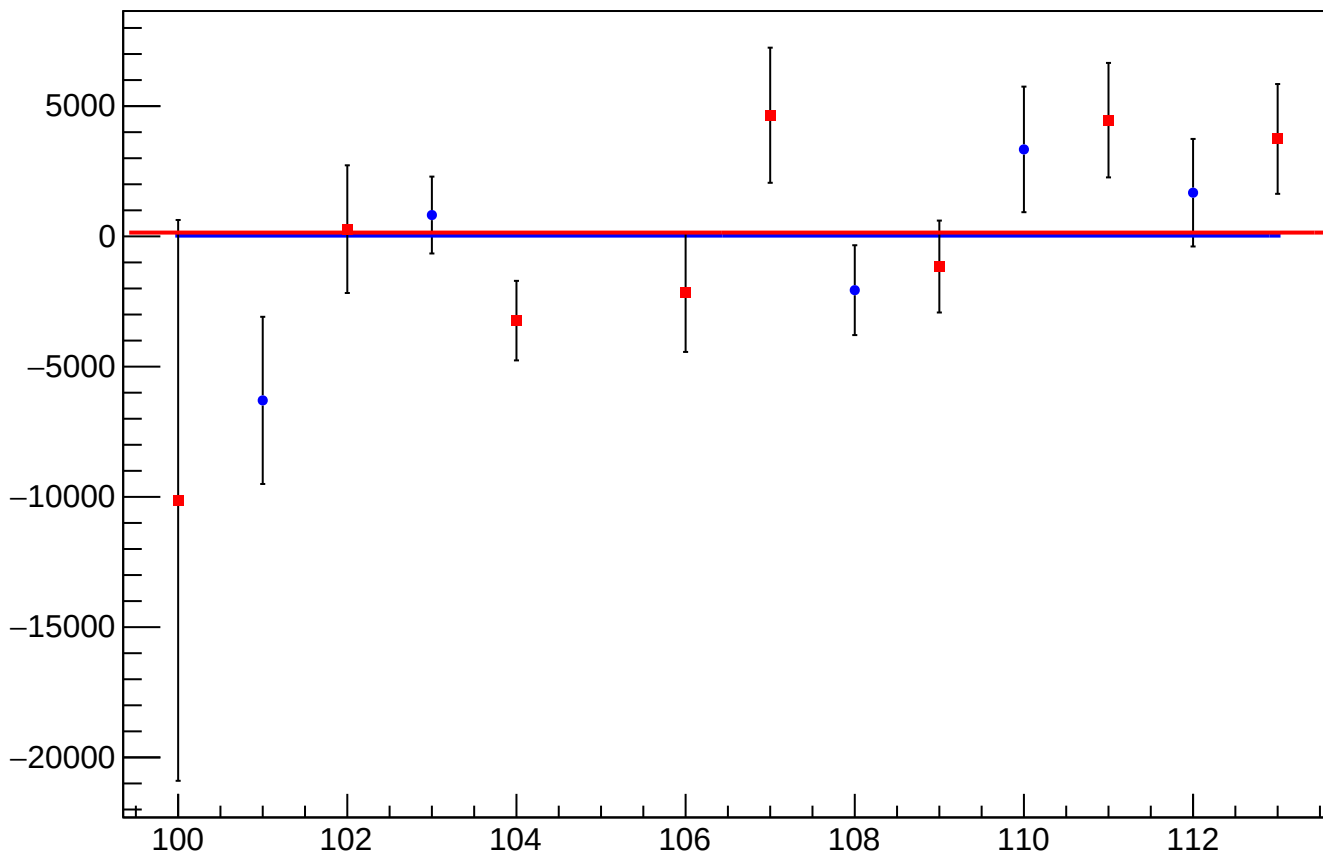
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 435.428+/-0.159  $\chi^2/\text{NDF}$ : 2941285.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 29.619+/-877.129  $\chi^2/\text{NDF}$ : 8.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 145.786+/-767.594  $\chi^2/\text{NDF}$ : 17.1/7

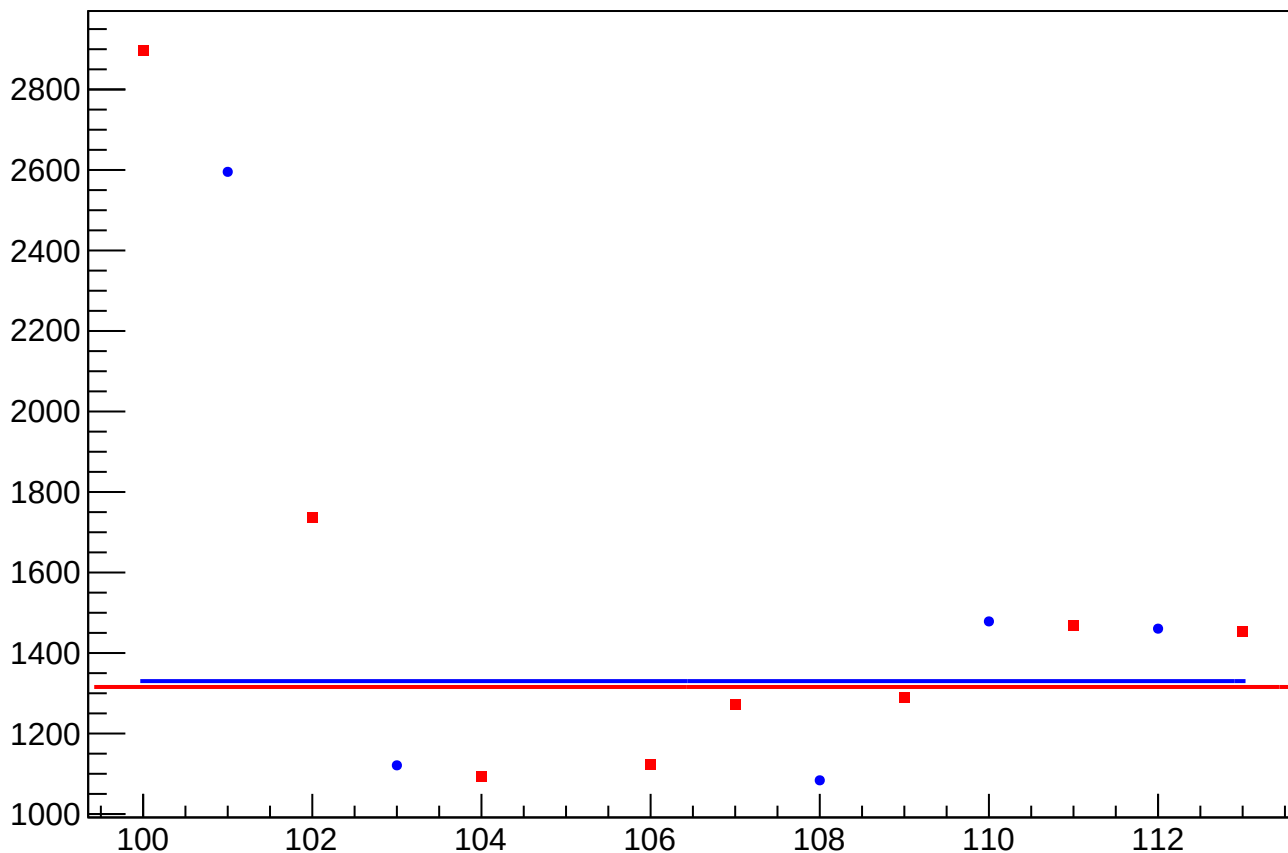
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.405+/-577.639  $\chi^2/\text{NDF}$ : 25.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1330.217+/-0.620  $\chi^2/\text{NDF}$ : 407556.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1315.646+/-0.543  $\chi^2/\text{NDF}$ : 177741.1/7

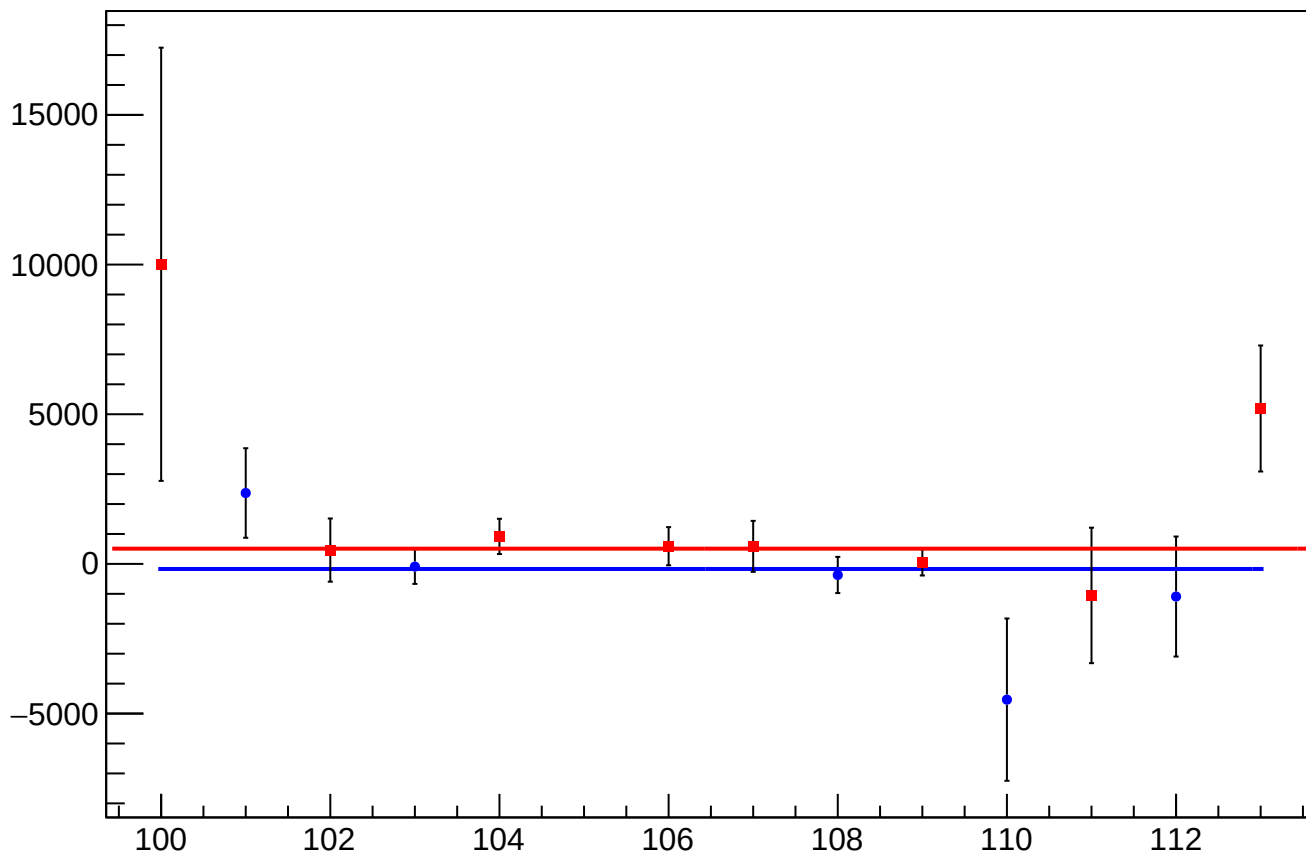
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1321.965+/-0.408  $\chi^2/\text{NDF}$ : 585610.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -169.424+/-390.103  $\chi^2/\text{NDF}$ : 5.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 509.256+/-274.731  $\chi^2/\text{NDF}$ : 8.7/7

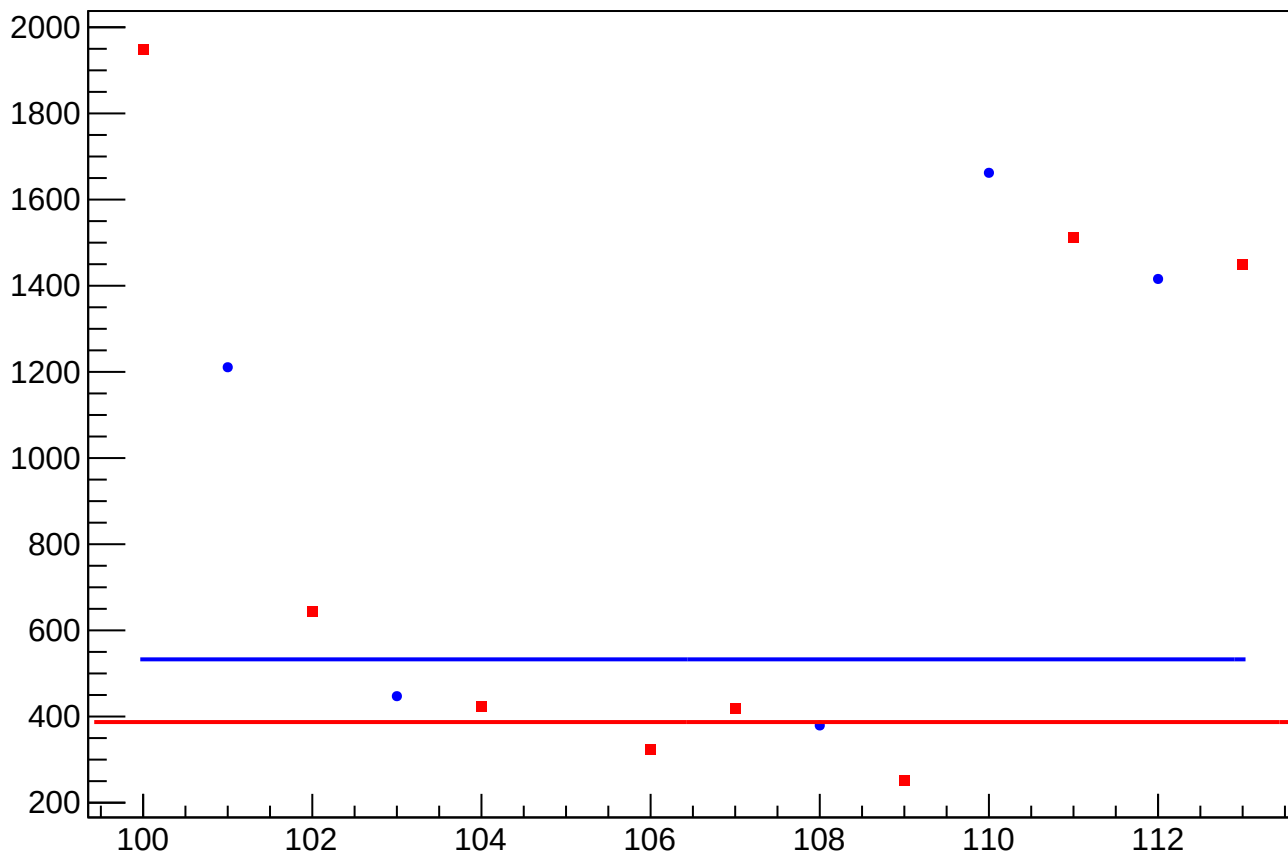
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 284.248+/-224.619  $\chi^2/\text{NDF}$ : 16.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 532.729+/-0.276  $\chi^2/\text{NDF}$ : 1318516.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 387.169+/-0.194  $\chi^2/\text{NDF}$ : 1436633.1/7

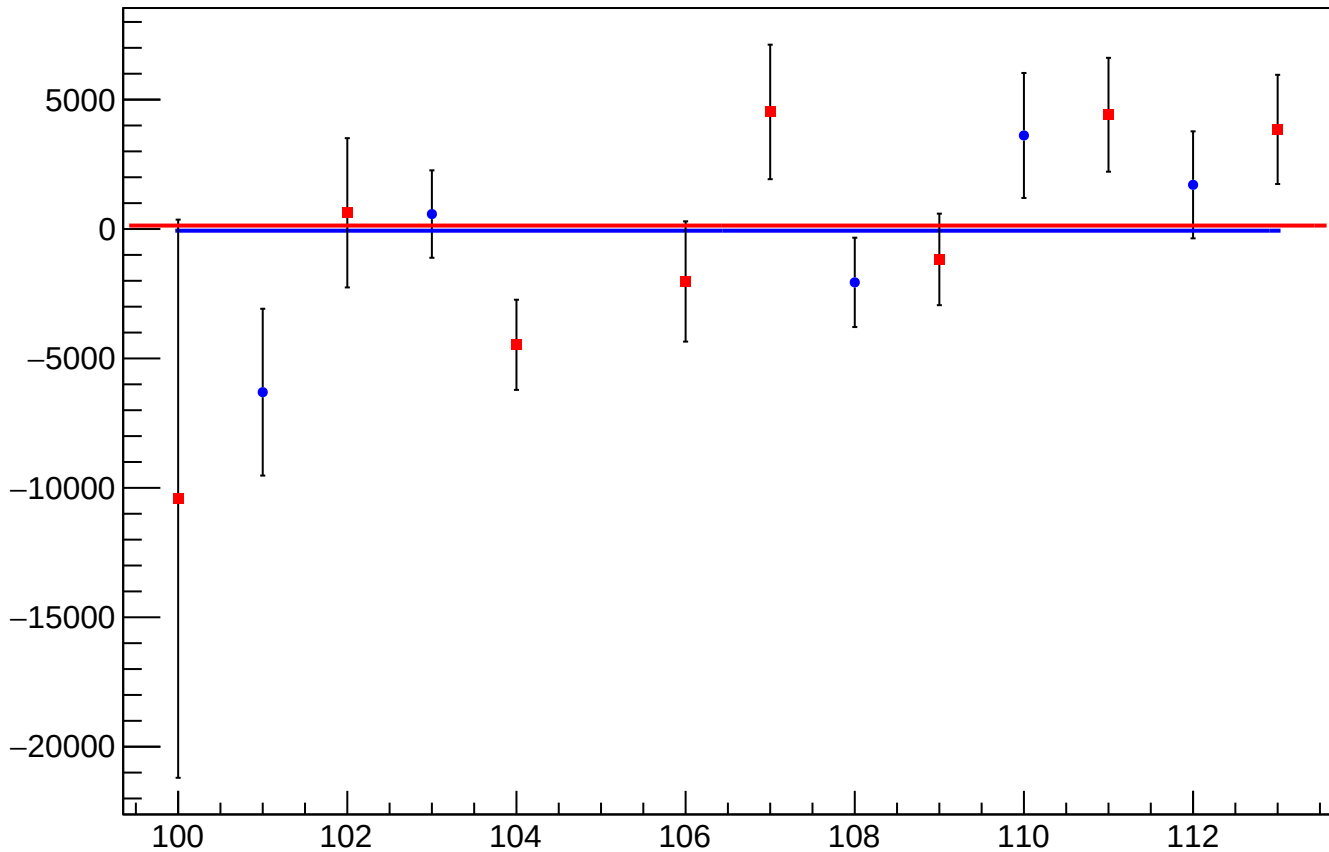
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 435.428+/-0.159  $\chi^2/\text{NDF}$ : 2941285.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In:  $-64.287 \pm 917.417$   $\chi^2/\text{NDF}$ : 8.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $133.846 \pm 804.981$   $\chi^2/\text{NDF}$ : 19.1/7

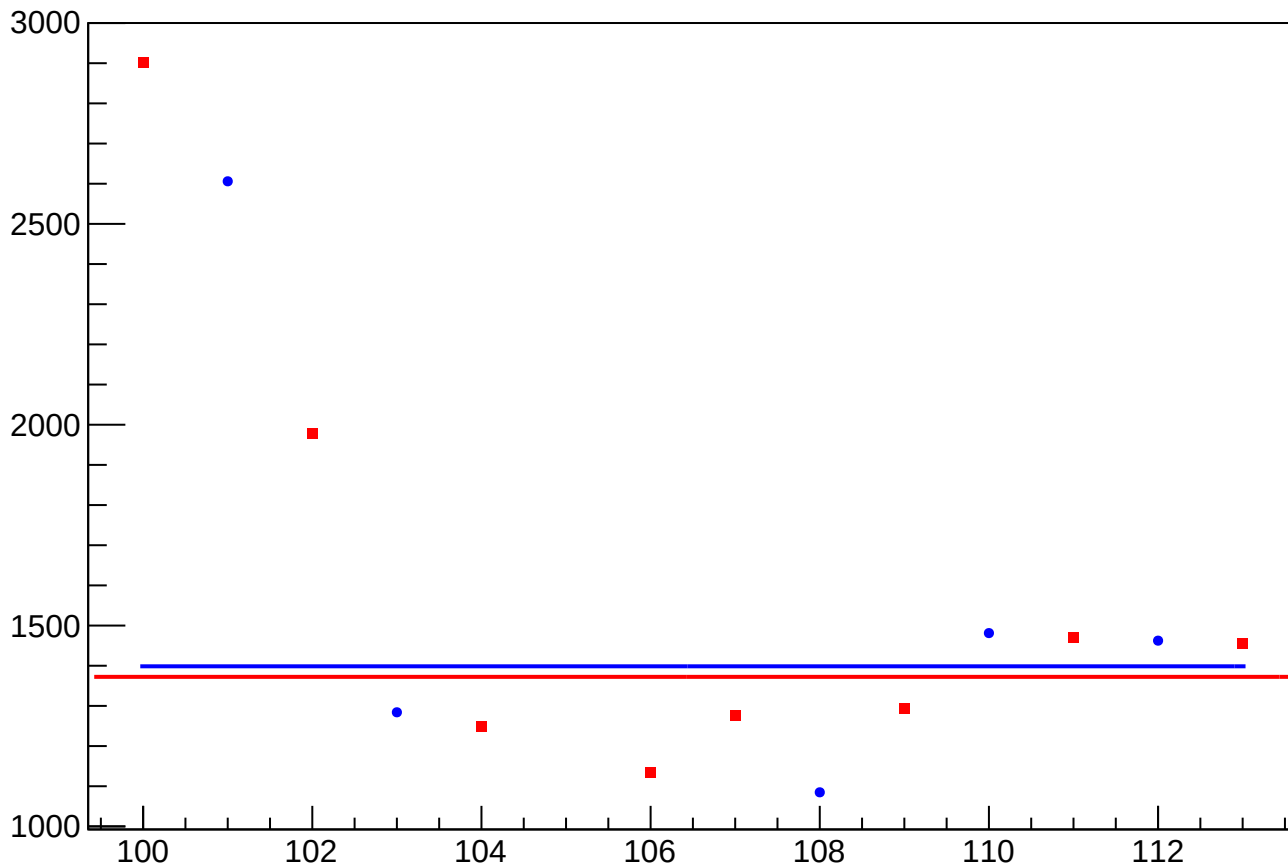
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $47.658 \pm 605.077$   $\chi^2/\text{NDF}$ : 27.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1398.566 $\pm$ 0.649  $\chi^2$ /NDF: 360296.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1372.315 $\pm$ 0.569  $\chi^2$ /NDF: 173770.7/7

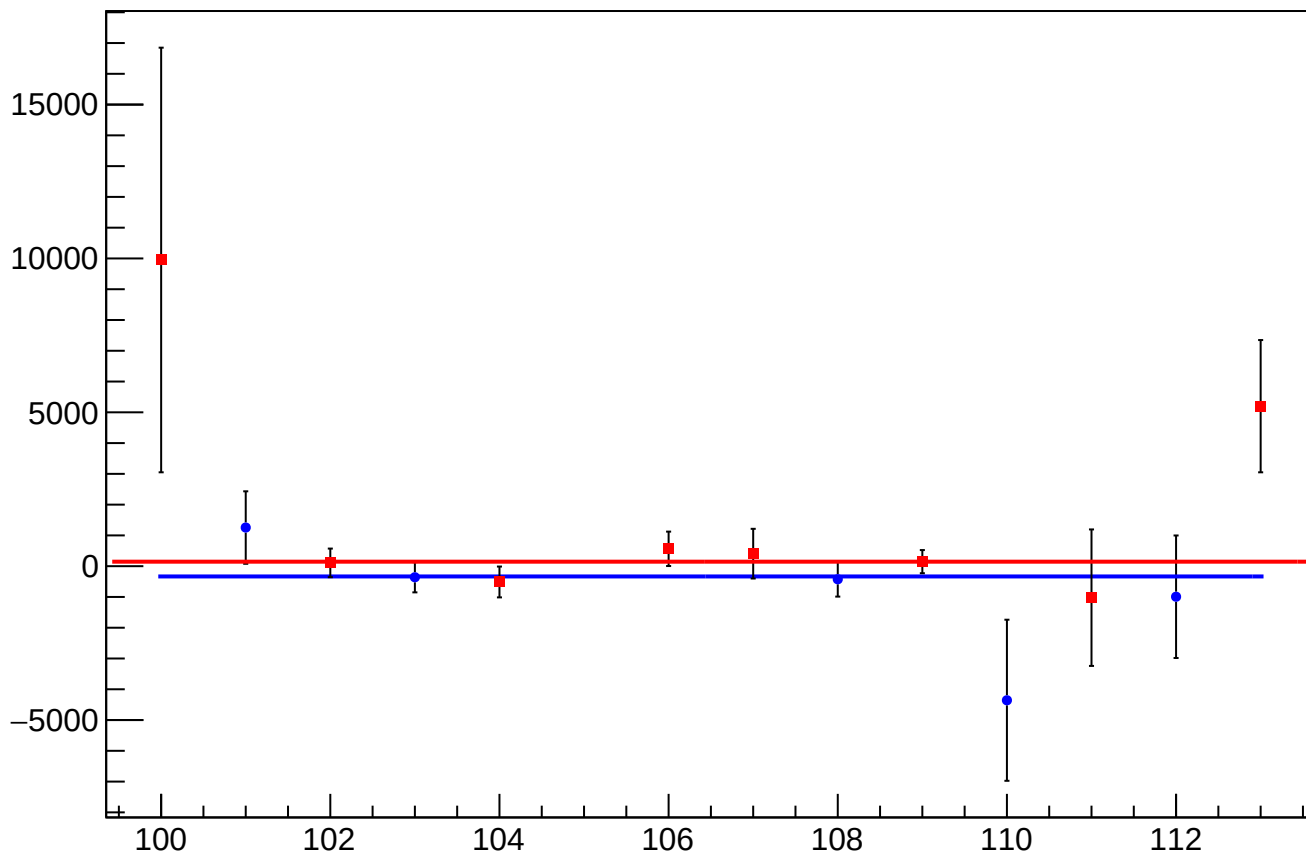
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1383.734 $\pm$ 0.428  $\chi^2$ /NDF: 534991.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_correction\_mean vs Slug



Right In: -333.700+/-345.005  $\chi^2/\text{NDF}$ : 4.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 146.233+/-218.992  $\chi^2/\text{NDF}$ : 10.2/7

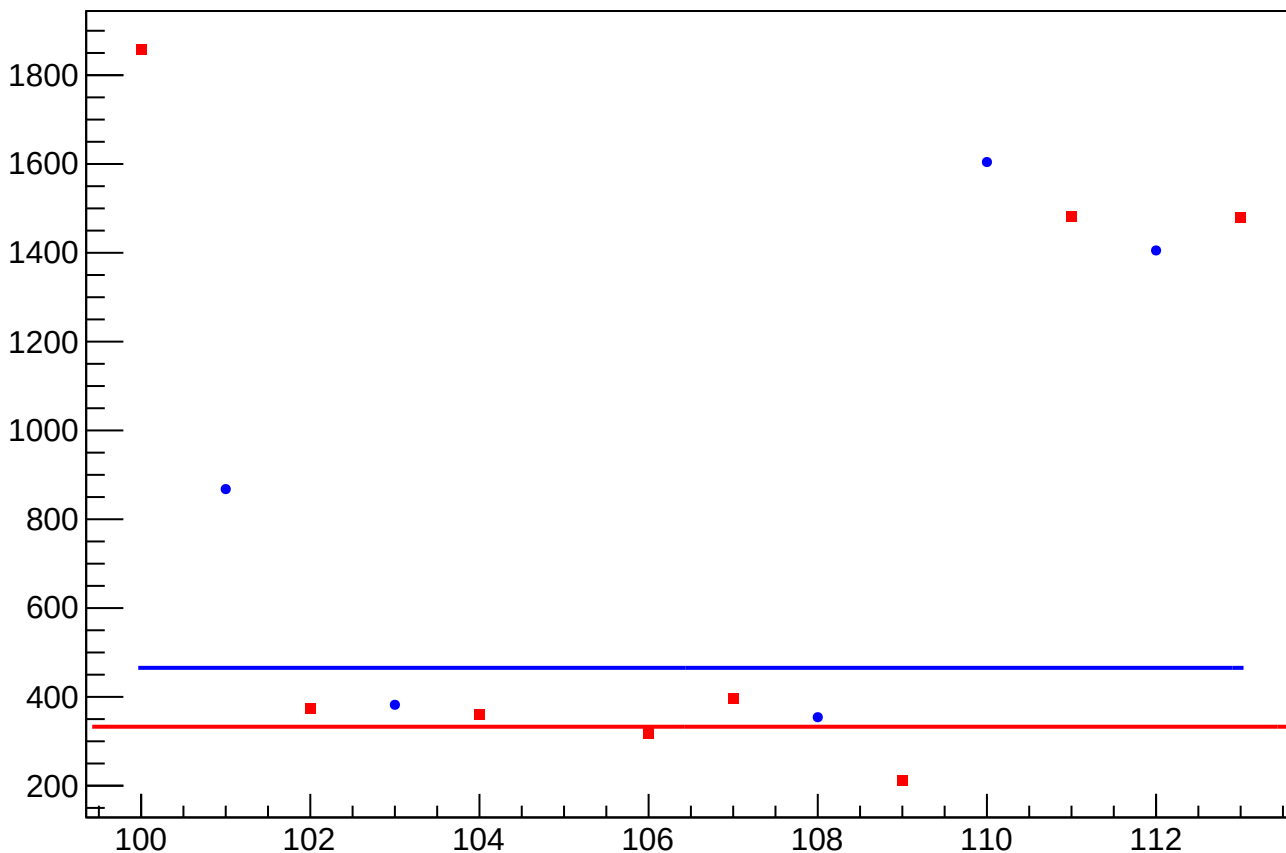
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8.399+/-184.890  $\chi^2/\text{NDF}$ : 15.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_correction\_rms vs Slug



Right In: 465.421+/-0.244  $\chi^2/\text{NDF}$ : 1193239.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 332.819+/-0.155  $\chi^2/\text{NDF}$ : 1447256.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

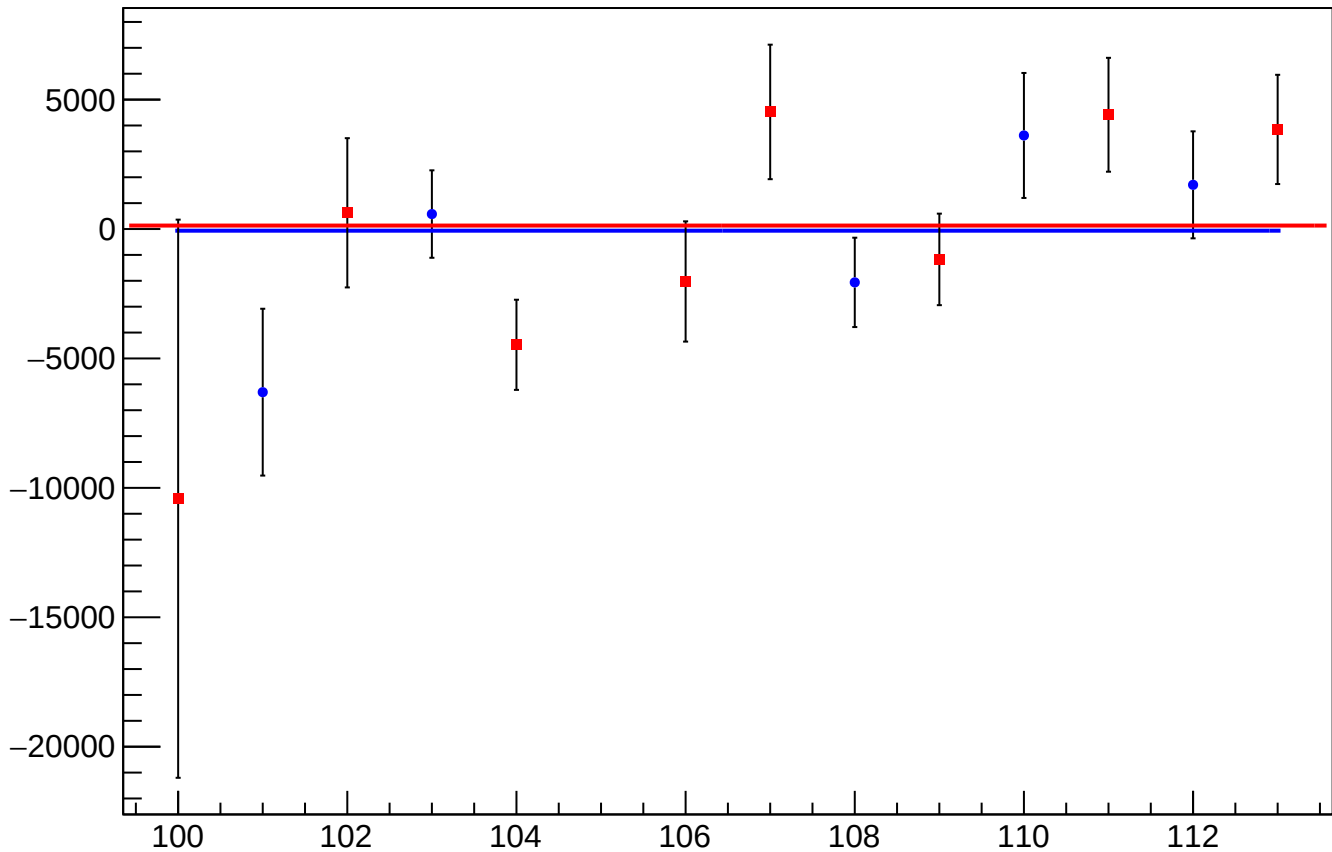
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 370.902+/-0.131  $\chi^2/\text{NDF}$ : 2851092.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: -64.295+/-917.417  $\chi^2/\text{NDF}$ : 8.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 133.849+/-804.981  $\chi^2/\text{NDF}$ : 19.1/7

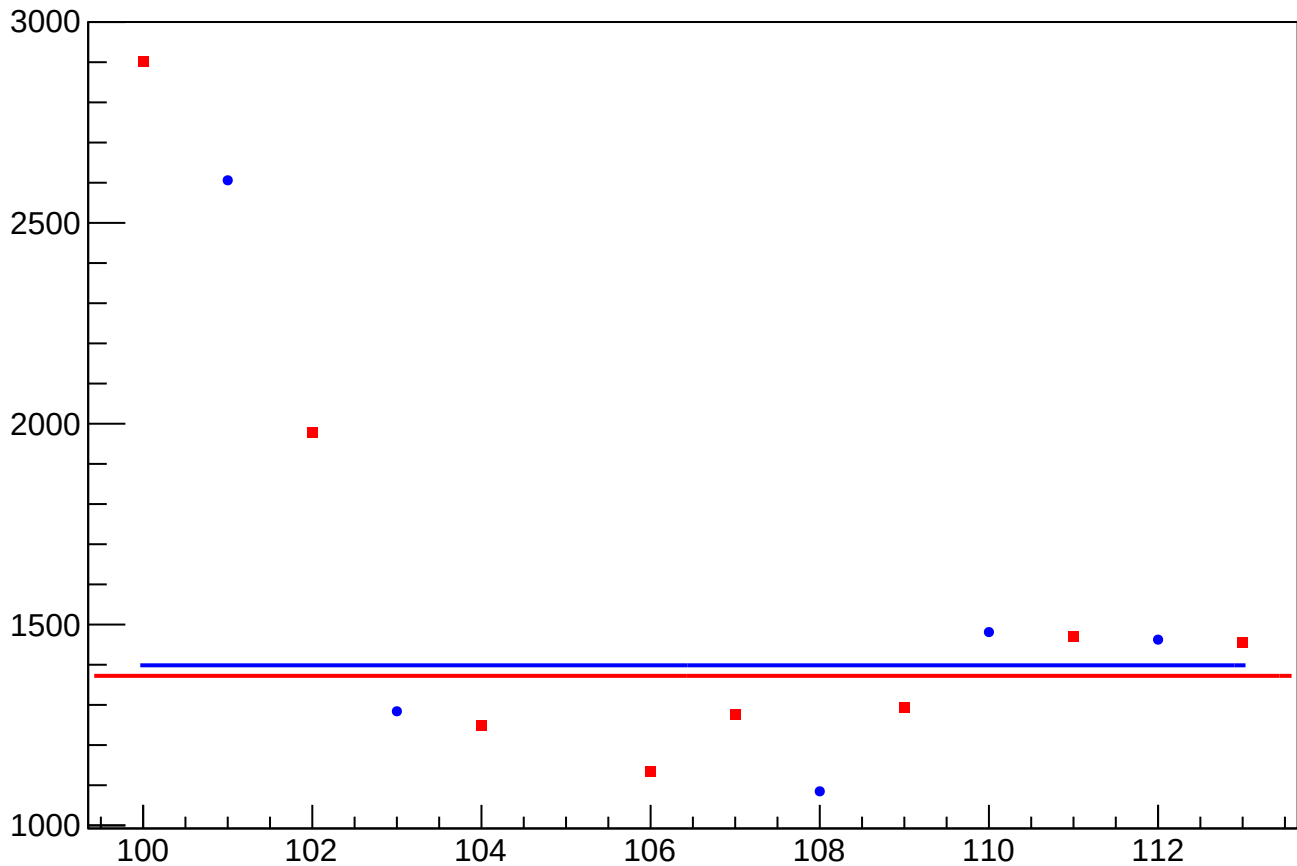
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.656+/-605.077  $\chi^2/\text{NDF}$ : 27.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1398.567 $\pm$ 0.649  $\chi^2$ /NDF: 360295.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1372.315 $\pm$ 0.569  $\chi^2$ /NDF: 173770.7/7

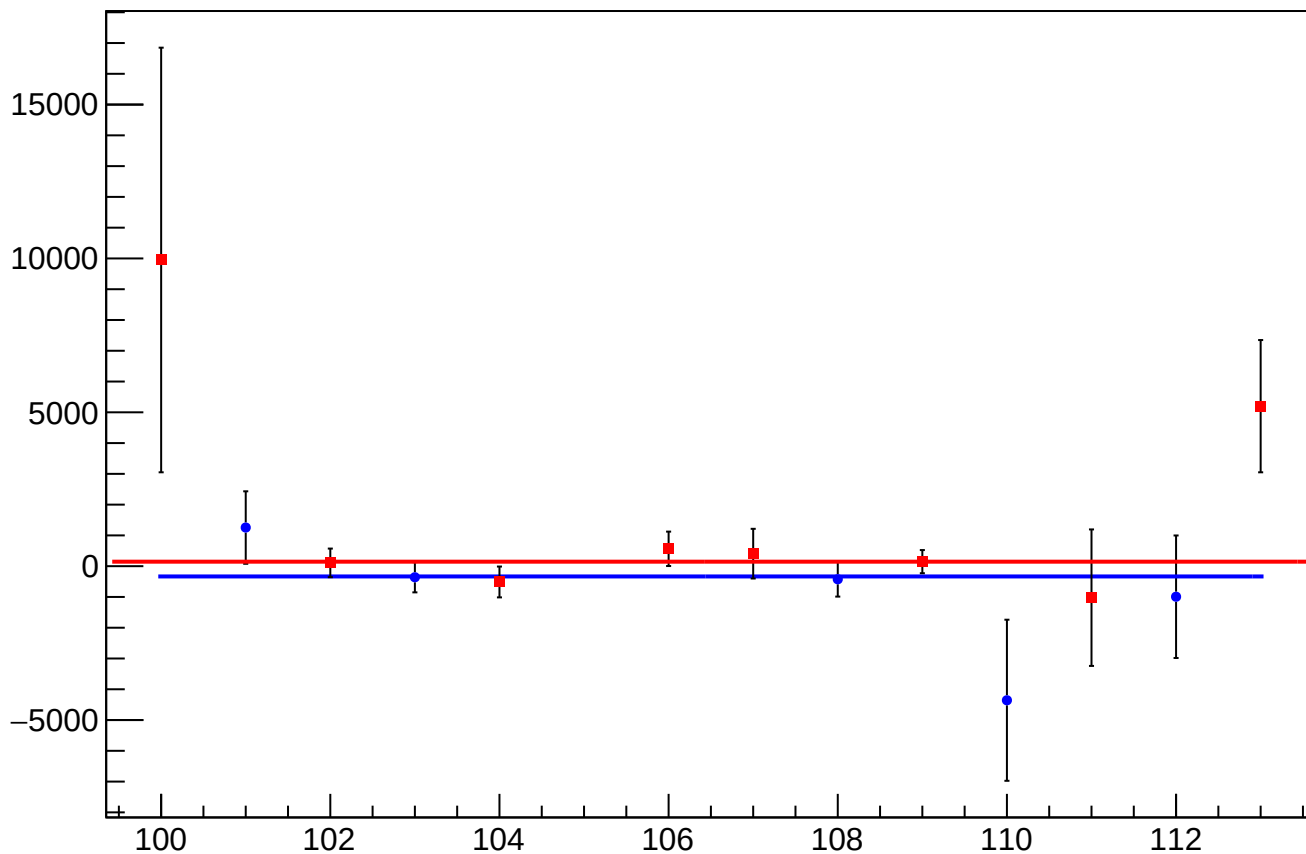
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1383.734 $\pm$ 0.428  $\chi^2$ /NDF: 534991.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -333.706 $\pm$ 345.000  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 146.227 $\pm$ 218.993  $\chi^2$ /NDF: 10.2/7

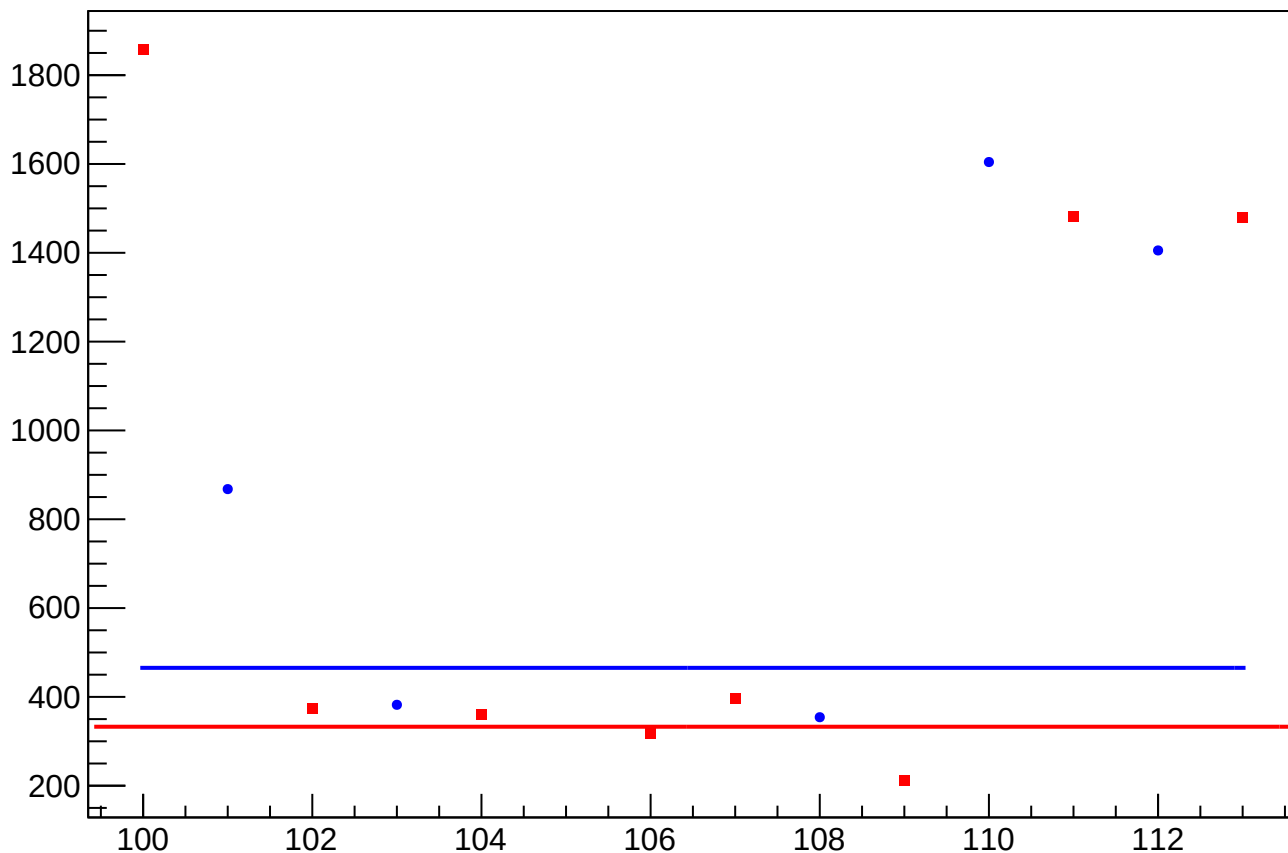
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8.389 $\pm$ 184.890  $\chi^2$ /NDF: 15.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 465.413+/-0.244  $\chi^2/\text{NDF}$ : 1193262.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 332.823+/-0.155  $\chi^2/\text{NDF}$ : 1447207.6/7

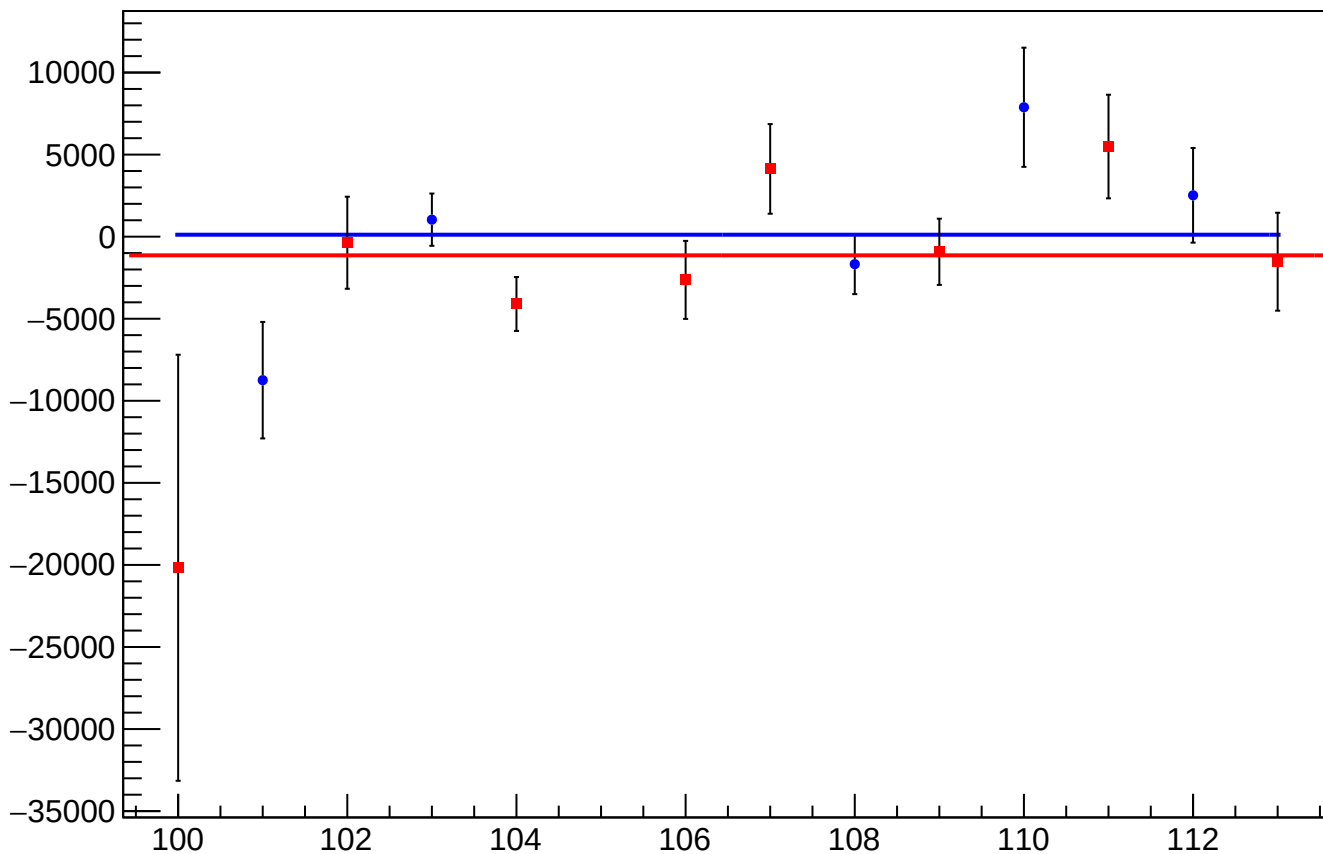
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 370.903+/-0.131  $\chi^2/\text{NDF}$ : 2851030.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 118.979 $\pm$ 1015.937  $\chi^2$ /NDF: 12.8/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1137.808 $\pm$ -885.912  $\chi^2$ /NDF: 14.0/7

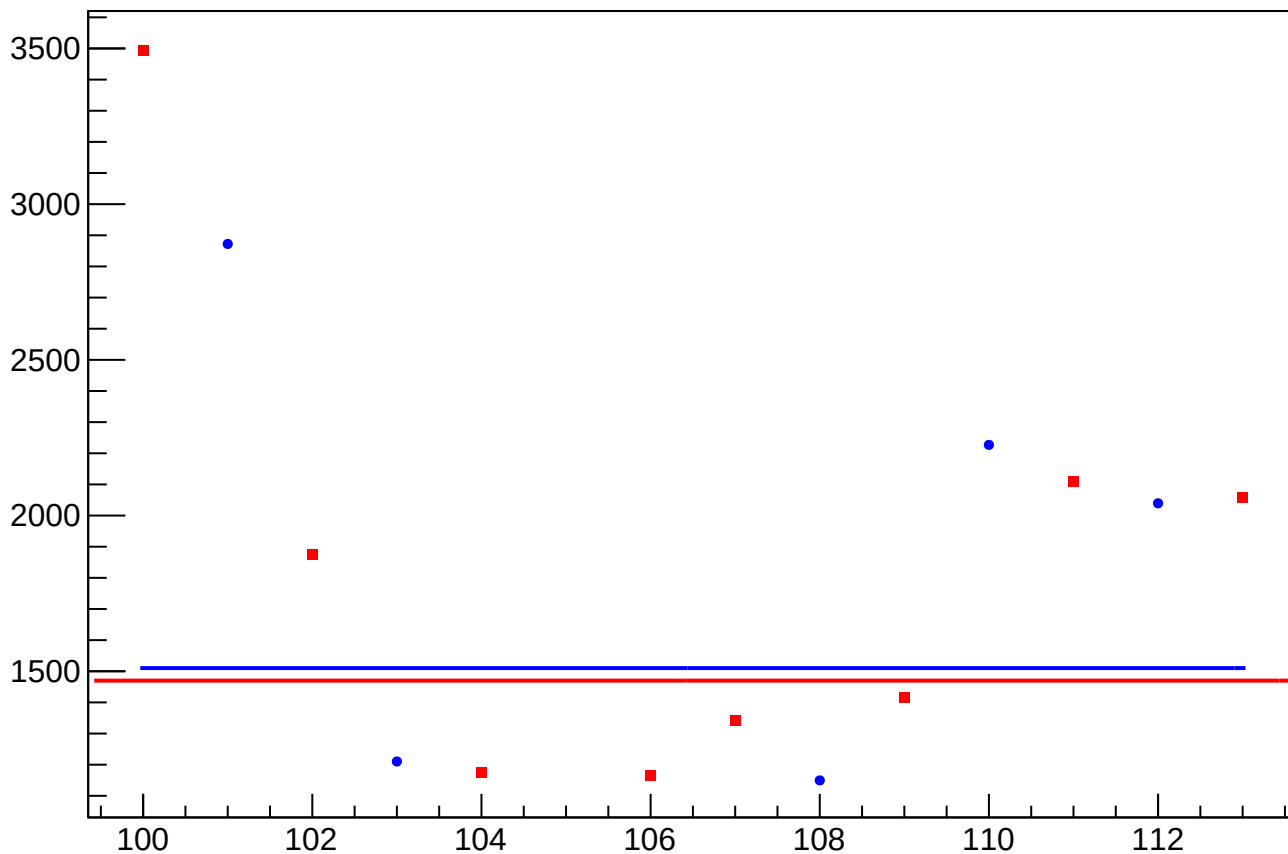
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -594.938 $\pm$ -667.704  $\chi^2$ /NDF: 27.7/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1510.205+/-0.718  $\chi^2/\text{NDF}$ : 588525.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1469.943+/-0.626  $\chi^2/\text{NDF}$ : 353166.8/7

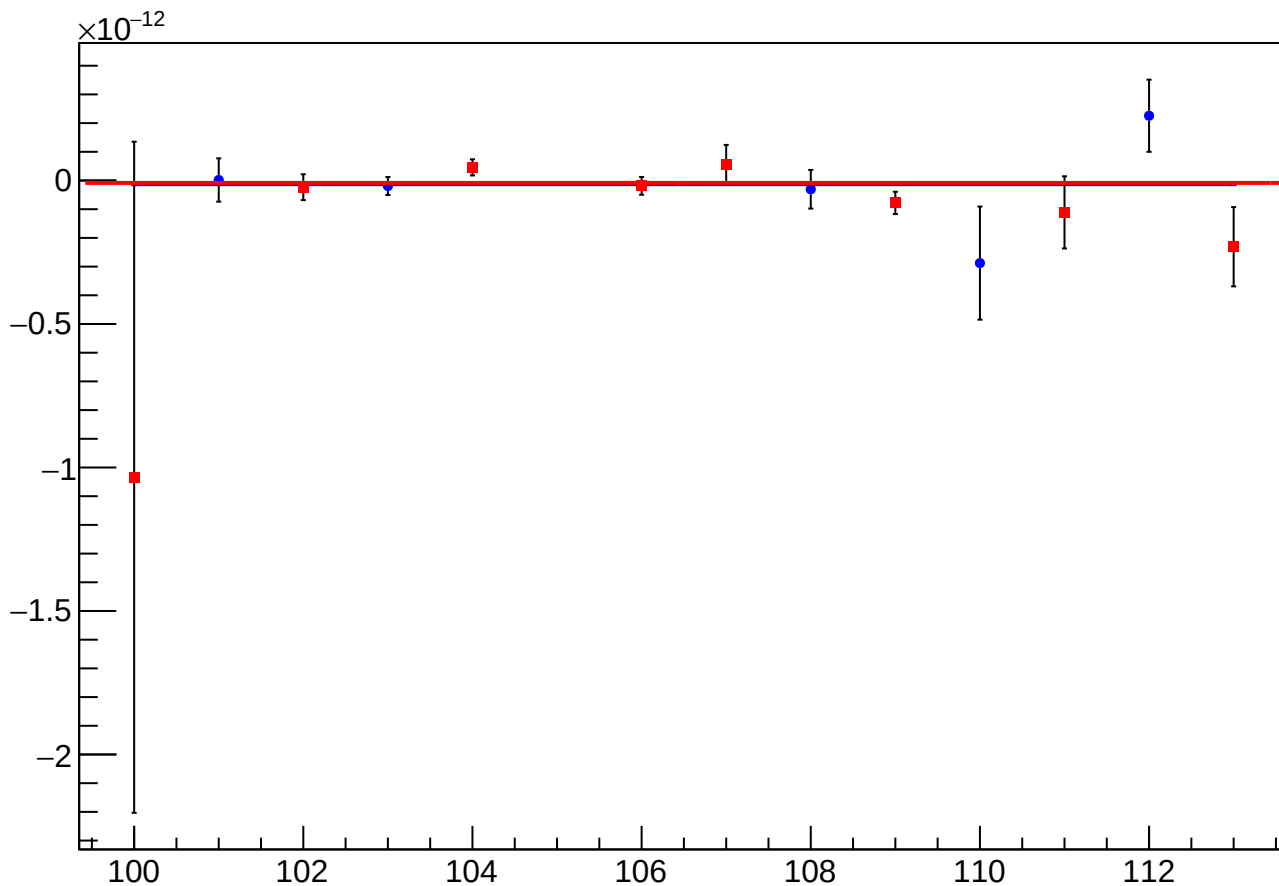
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1487.334+/-0.472  $\chi^2/\text{NDF}$ : 943476.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 5.7/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 12.1/7

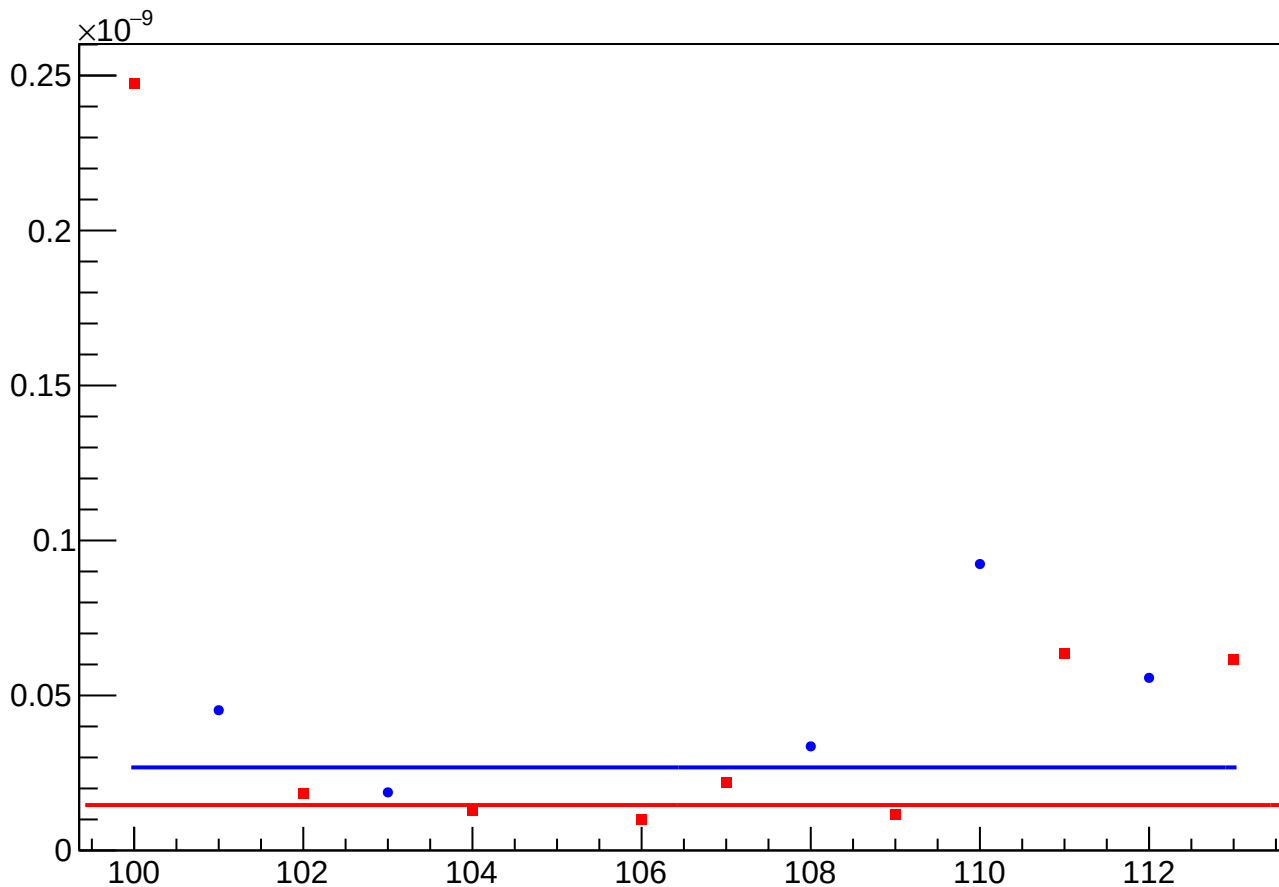
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 17.8/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 600131.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 719260.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

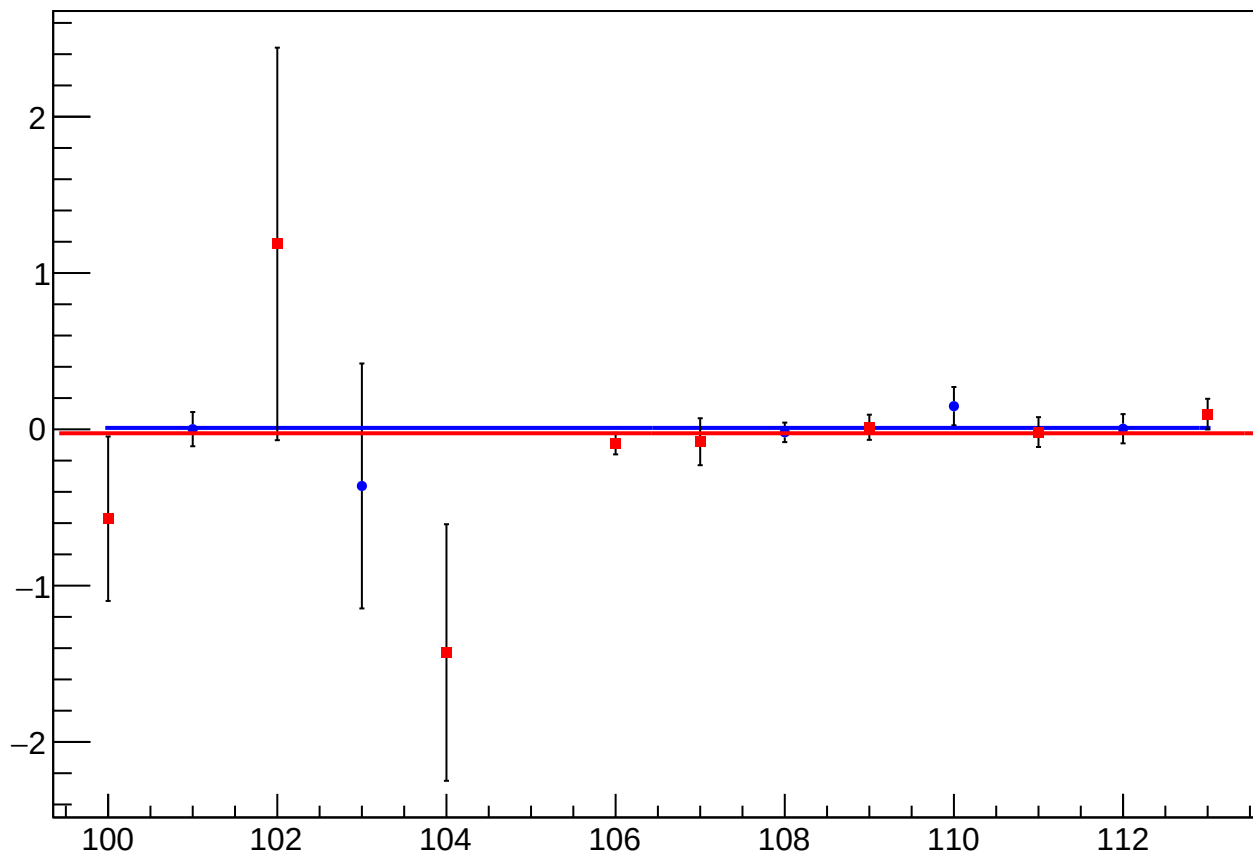
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1638301.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_dd\_at2lr\_dd\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.044  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.025 $\pm$ 0.040  $\chi^2$ /NDF: 7.8/7

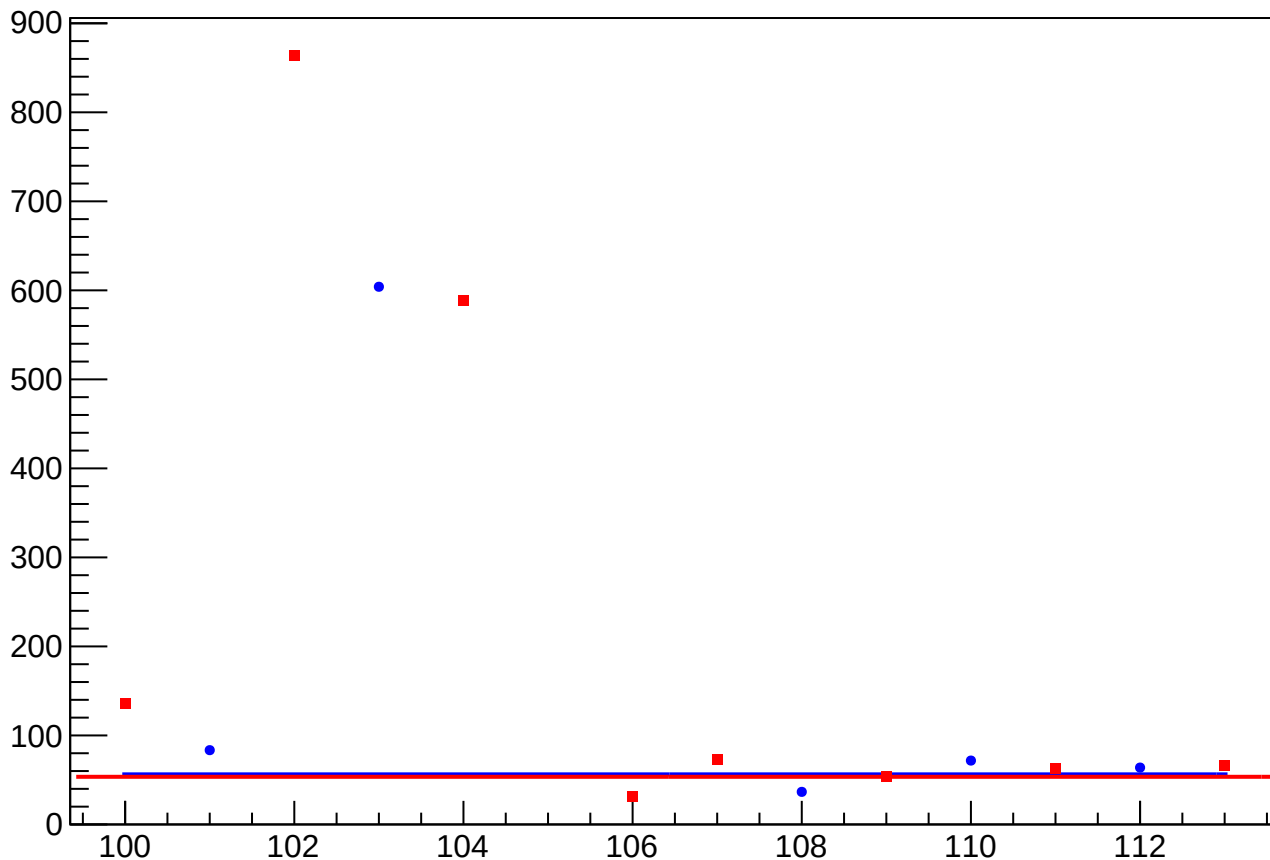
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.010 $\pm$ 0.029  $\chi^2$ /NDF: 9.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 56.280 $\pm$ 0.031  $\chi^2$ /NDF: 1344961.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 53.535 $\pm$ 0.028  $\chi^2$ /NDF: 2027341.8/7

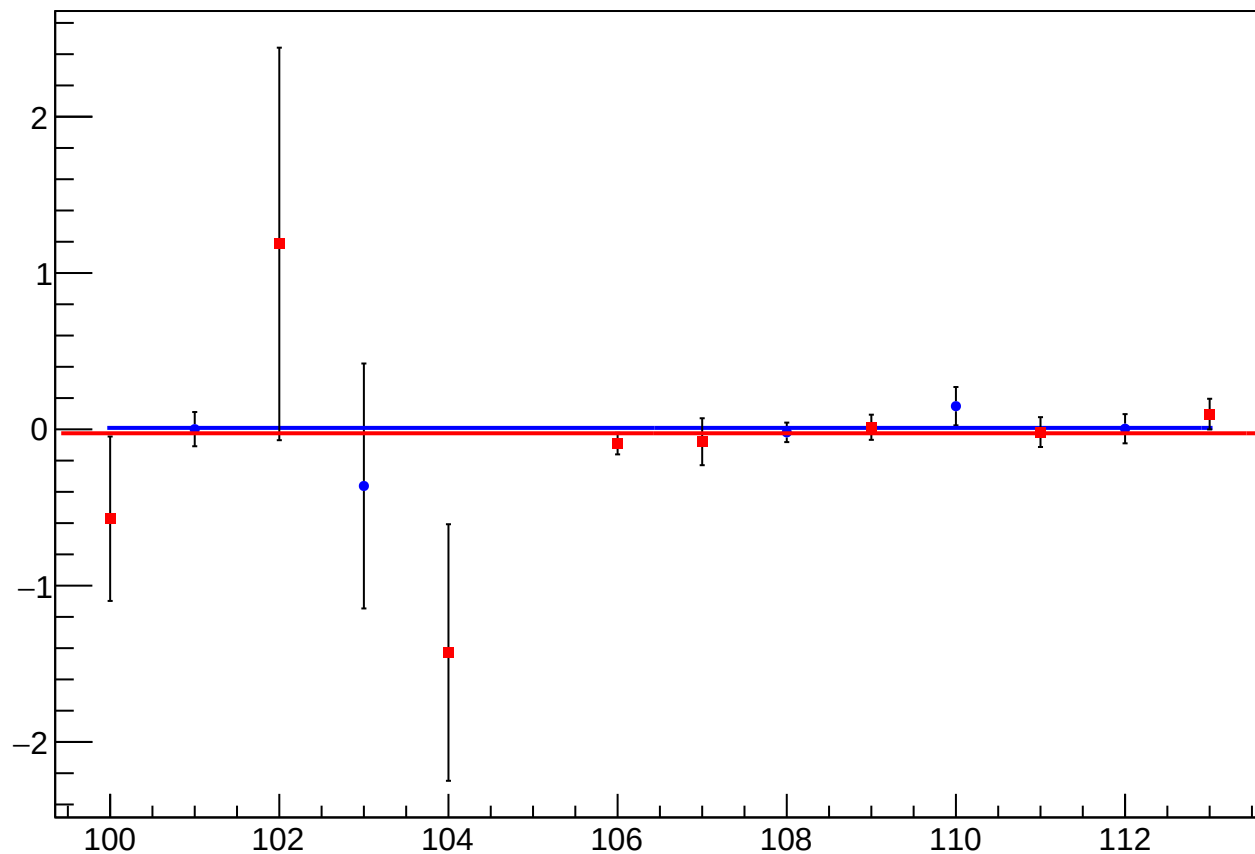
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 54.783 $\pm$ 0.021  $\chi^2$ /NDF: 3376605.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.044  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.025 $\pm$ 0.040  $\chi^2$ /NDF: 7.8/7

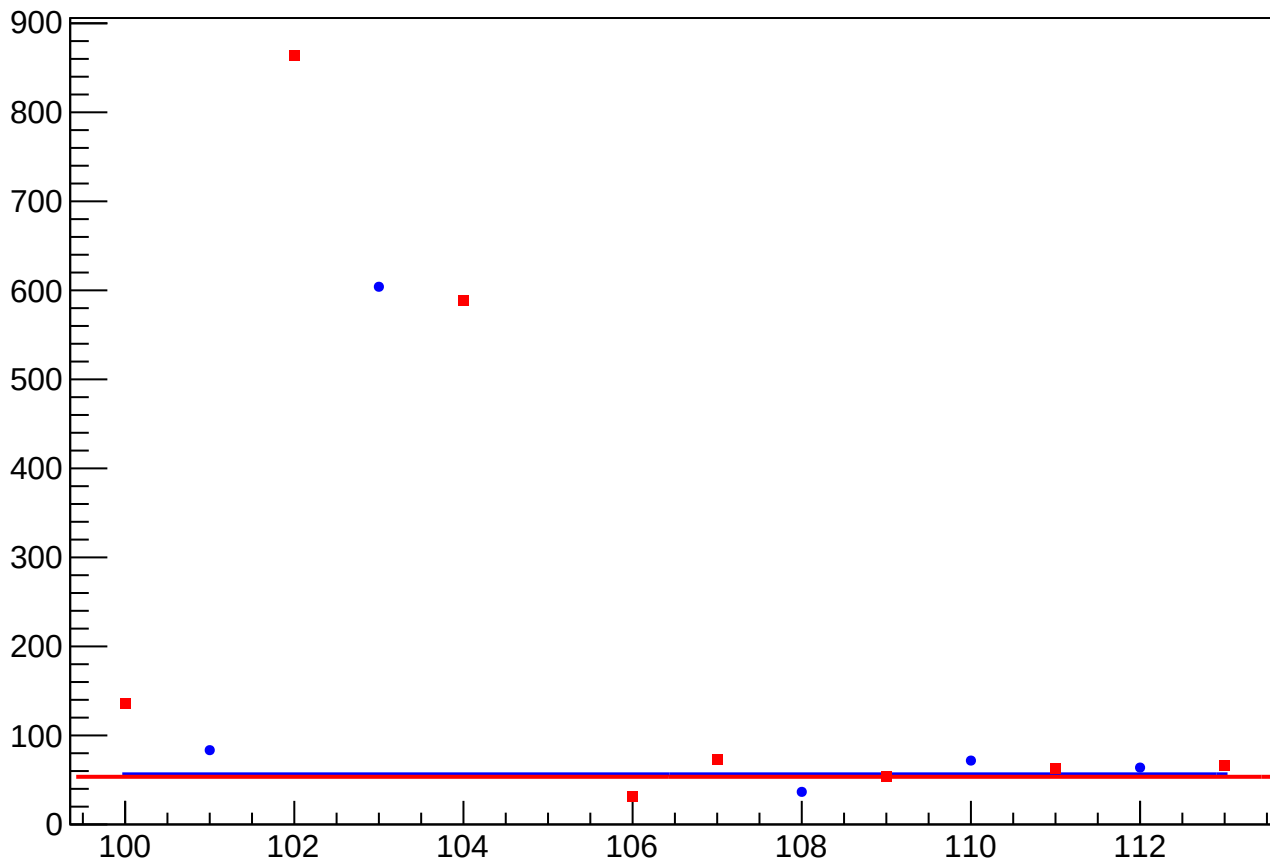
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.010 $\pm$ 0.029  $\chi^2$ /NDF: 9.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 56.280 $\pm$ 0.031  $\chi^2$ /NDF: 1344961.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 53.535 $\pm$ 0.028  $\chi^2$ /NDF: 2027341.8/7

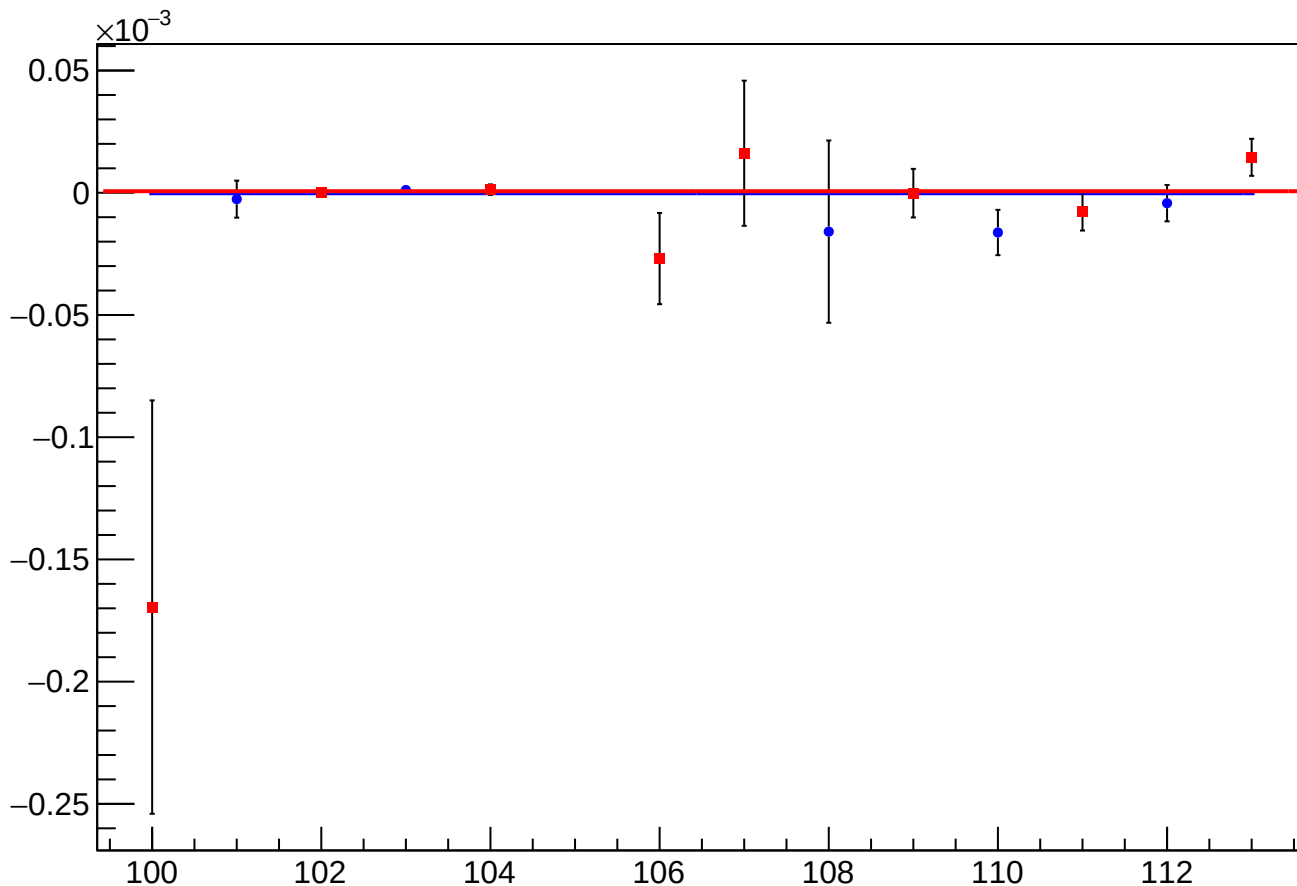
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 54.783 $\pm$ 0.021  $\chi^2$ /NDF: 3376605.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 4.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 11.1/7

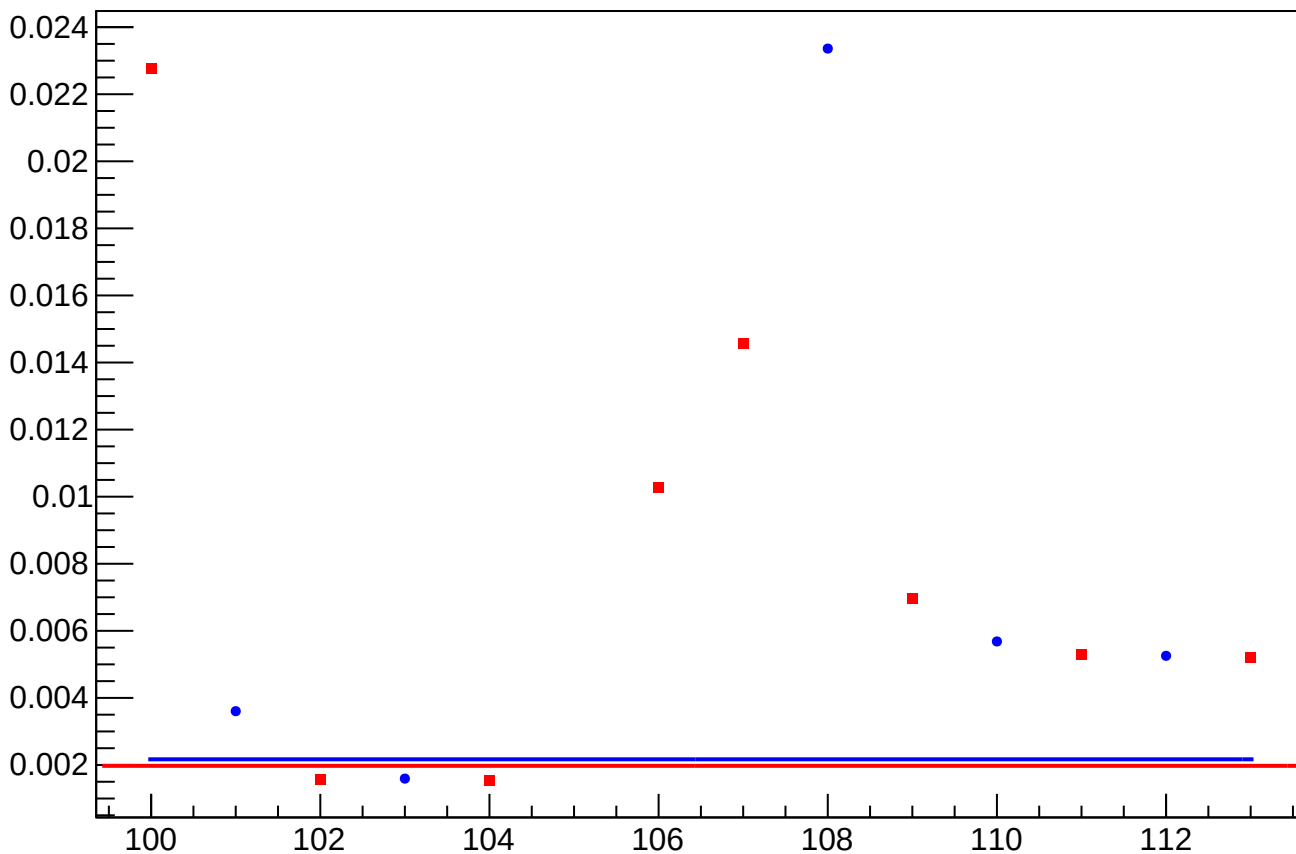
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 15.2/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1507923.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2266850.3/7

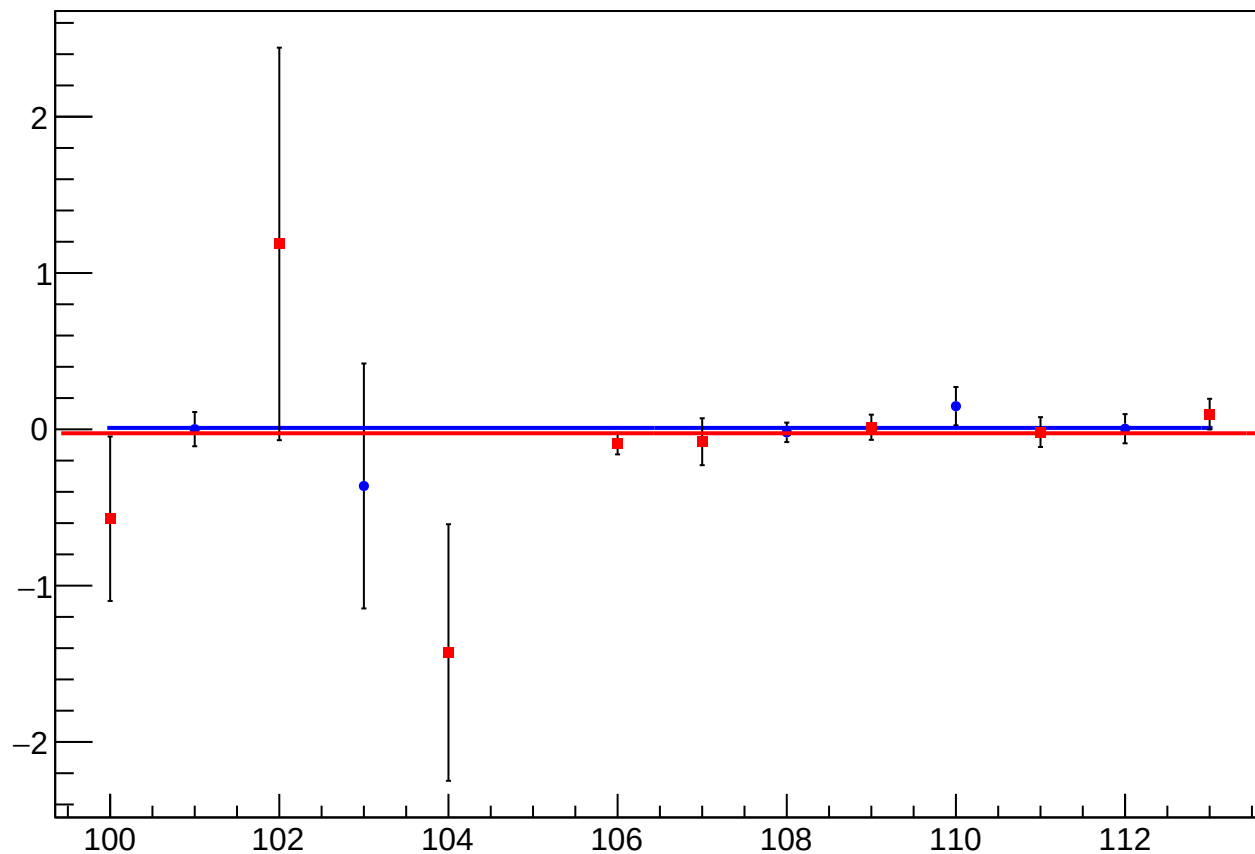
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3788762.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.044  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.025 $\pm$ 0.040  $\chi^2$ /NDF: 7.8/7

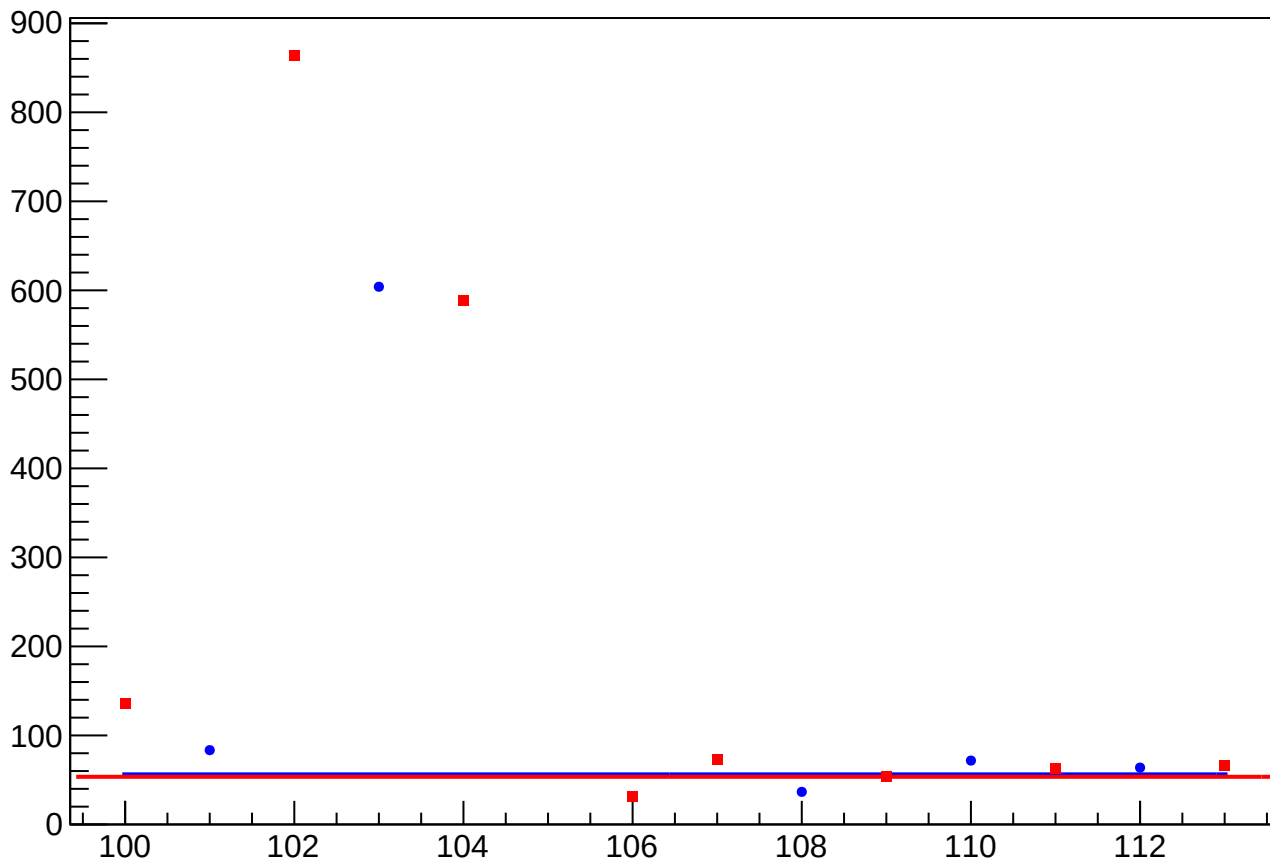
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.010 $\pm$ 0.029  $\chi^2$ /NDF: 9.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 56.294 $\pm$ 0.031  $\chi^2$ /NDF: 1344543.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 53.538 $\pm$ 0.028  $\chi^2$ /NDF: 2027172.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

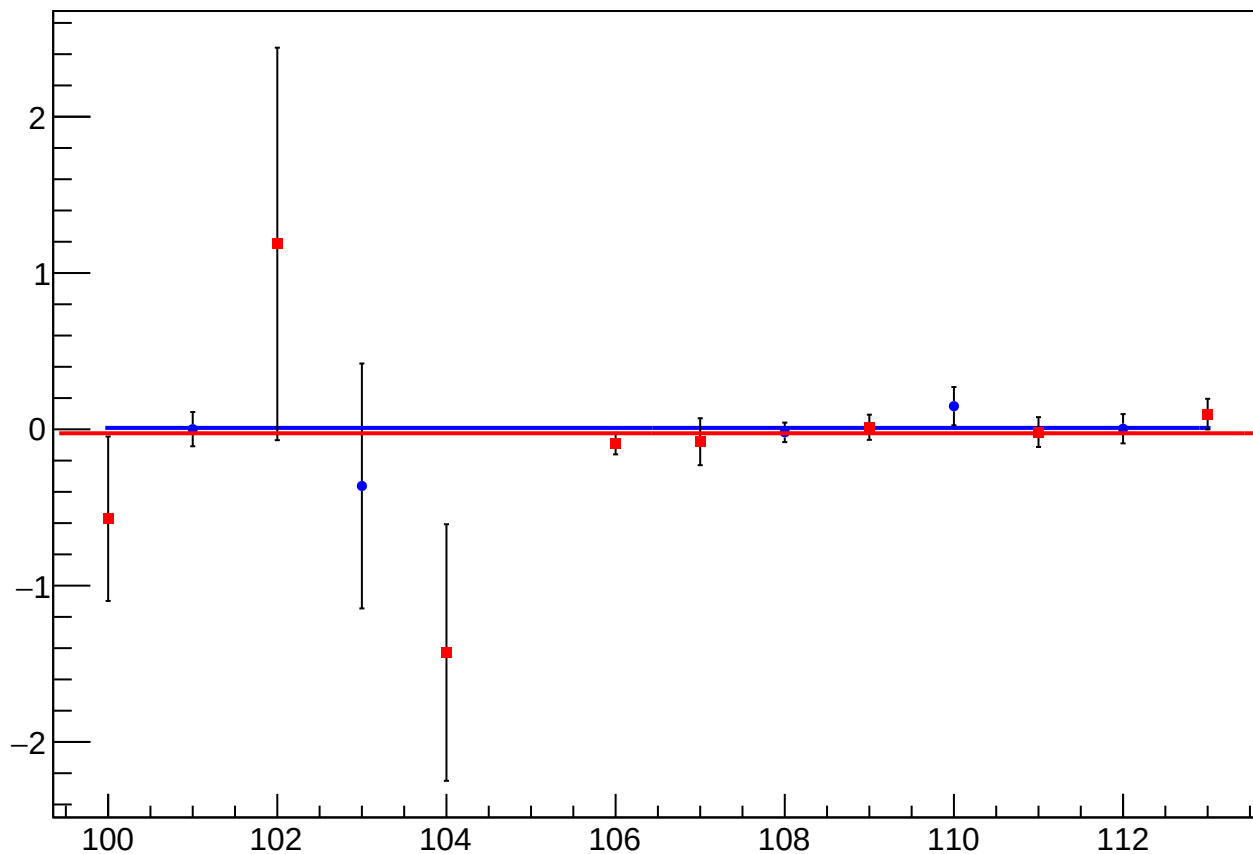
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 54.791 $\pm$ 0.021  $\chi^2$ /NDF: 3376050.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.044  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.025 $\pm$ 0.040  $\chi^2$ /NDF: 7.8/7

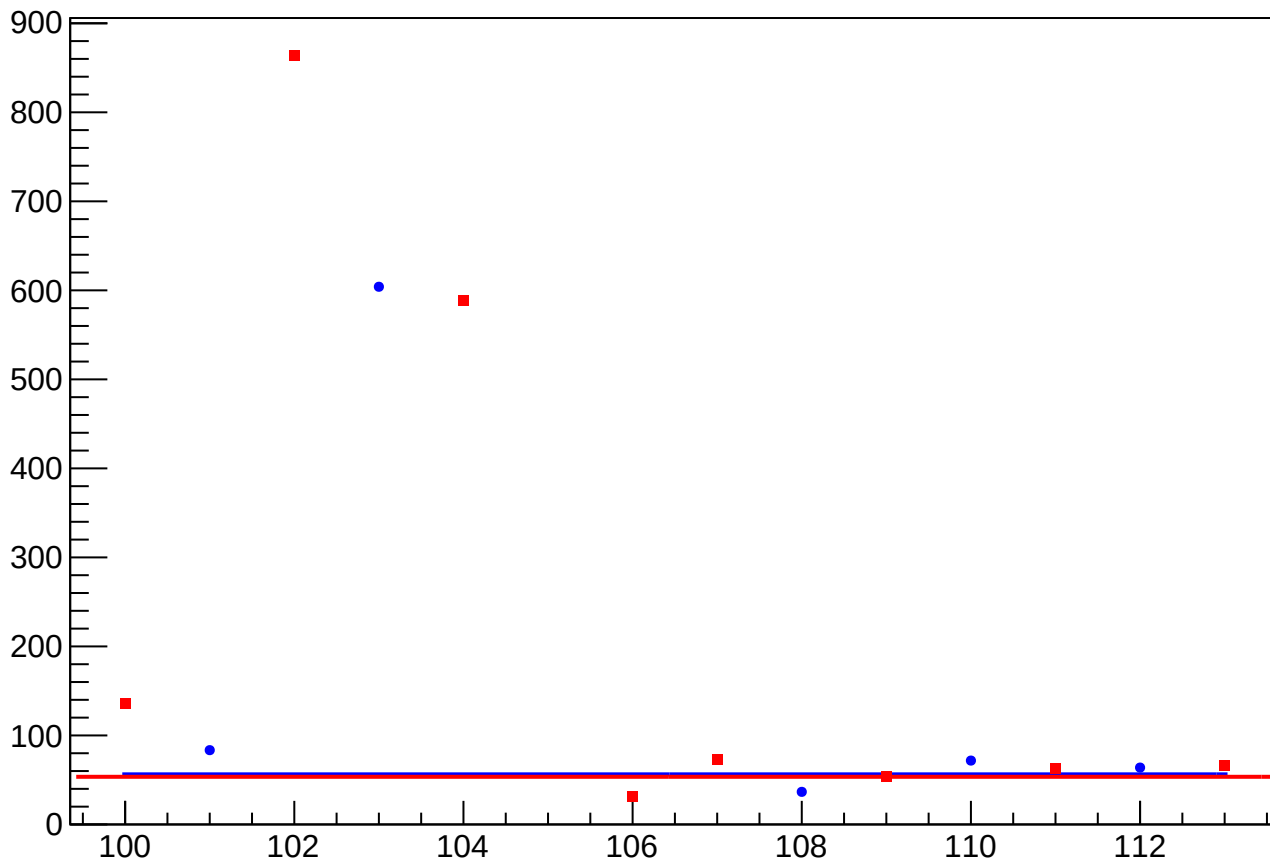
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.010 $\pm$ 0.029  $\chi^2$ /NDF: 9.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 56.294 $\pm$ 0.031  $\chi^2$ /NDF: 1344543.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 53.538 $\pm$ 0.028  $\chi^2$ /NDF: 2027172.0/7

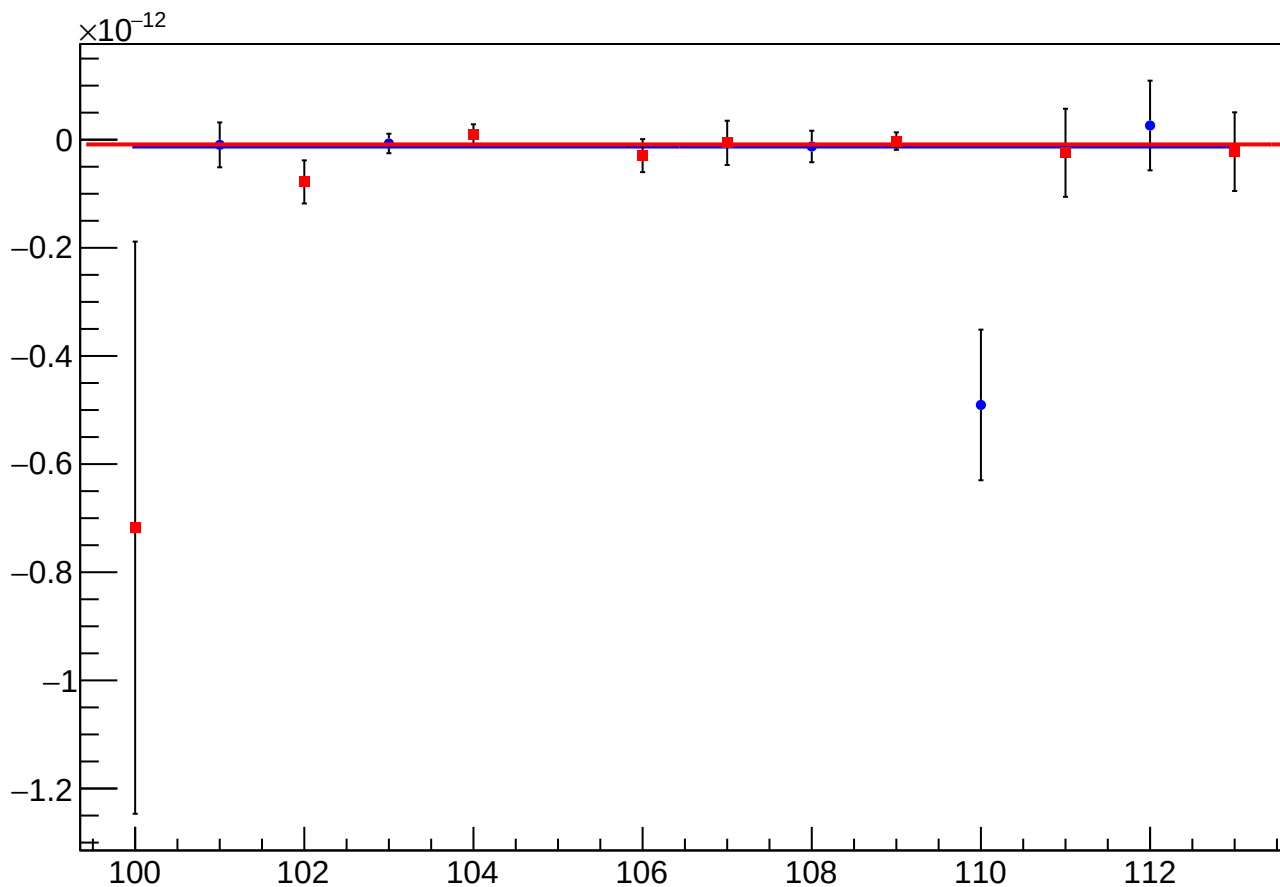
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 54.791 $\pm$ 0.021  $\chi^2$ /NDF: 3376050.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.4/7

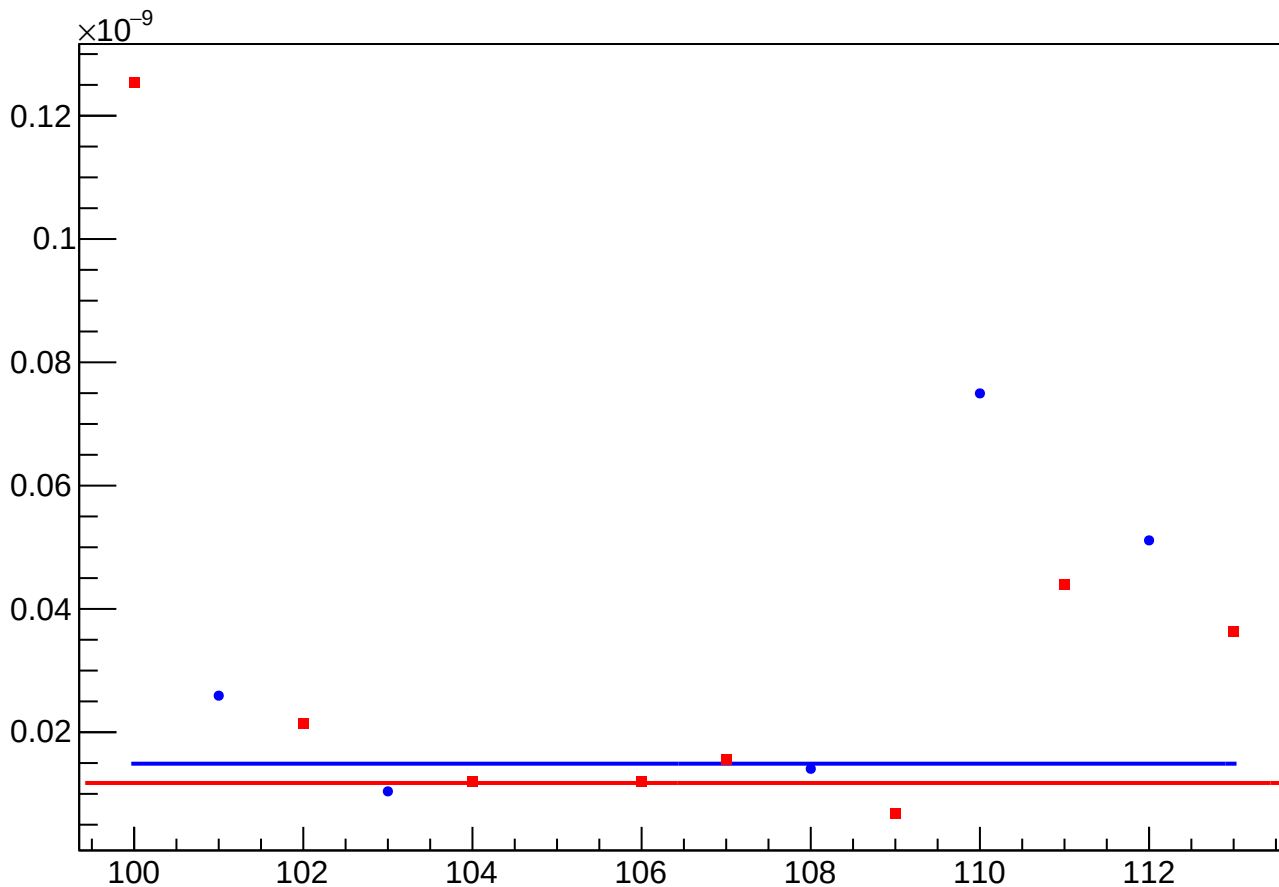
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 18.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1020004.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 958848.2/7

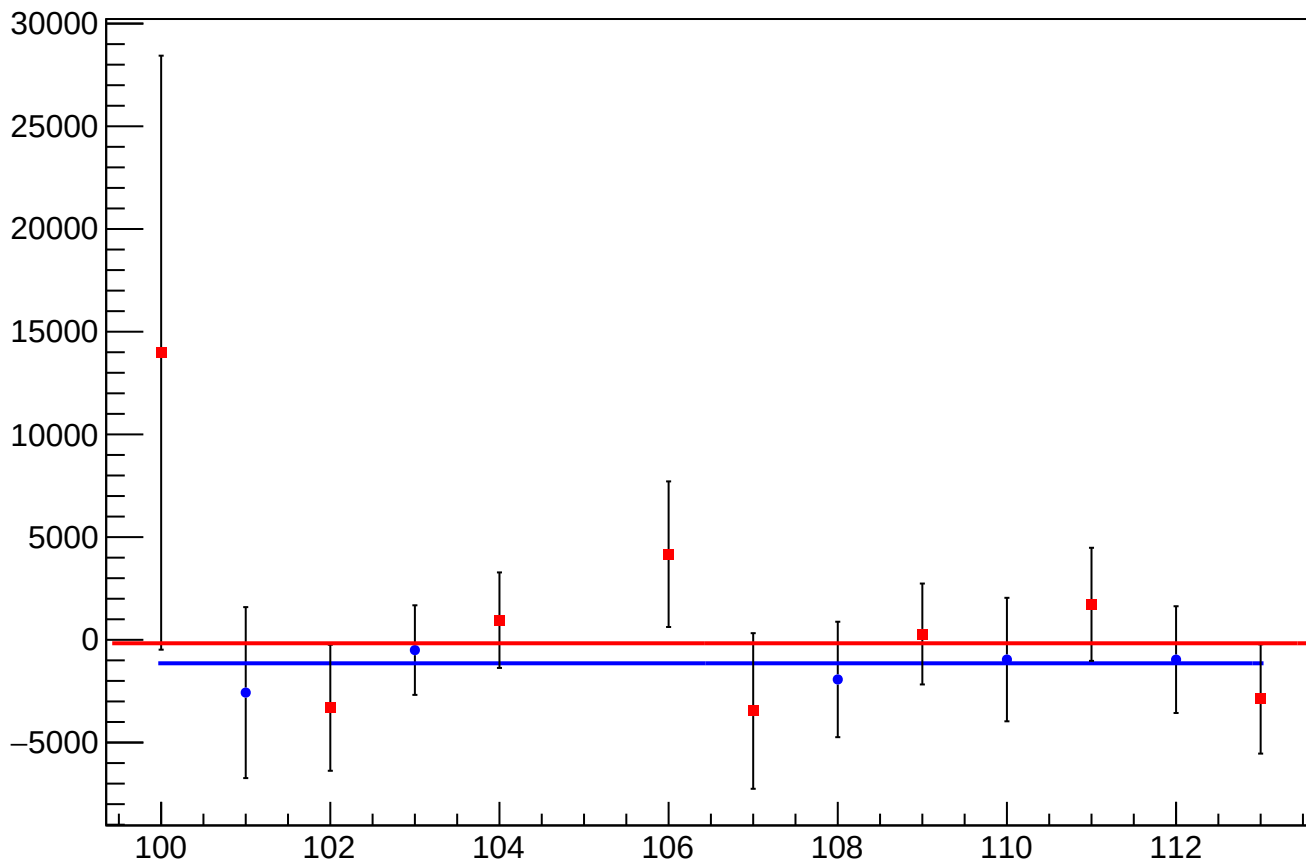
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2042377.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1142.941+/-1237.075  $\chi^2/\text{NDF}$ : 0.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -168.163+/-1063.382  $\chi^2/\text{NDF}$ : 6.0/7

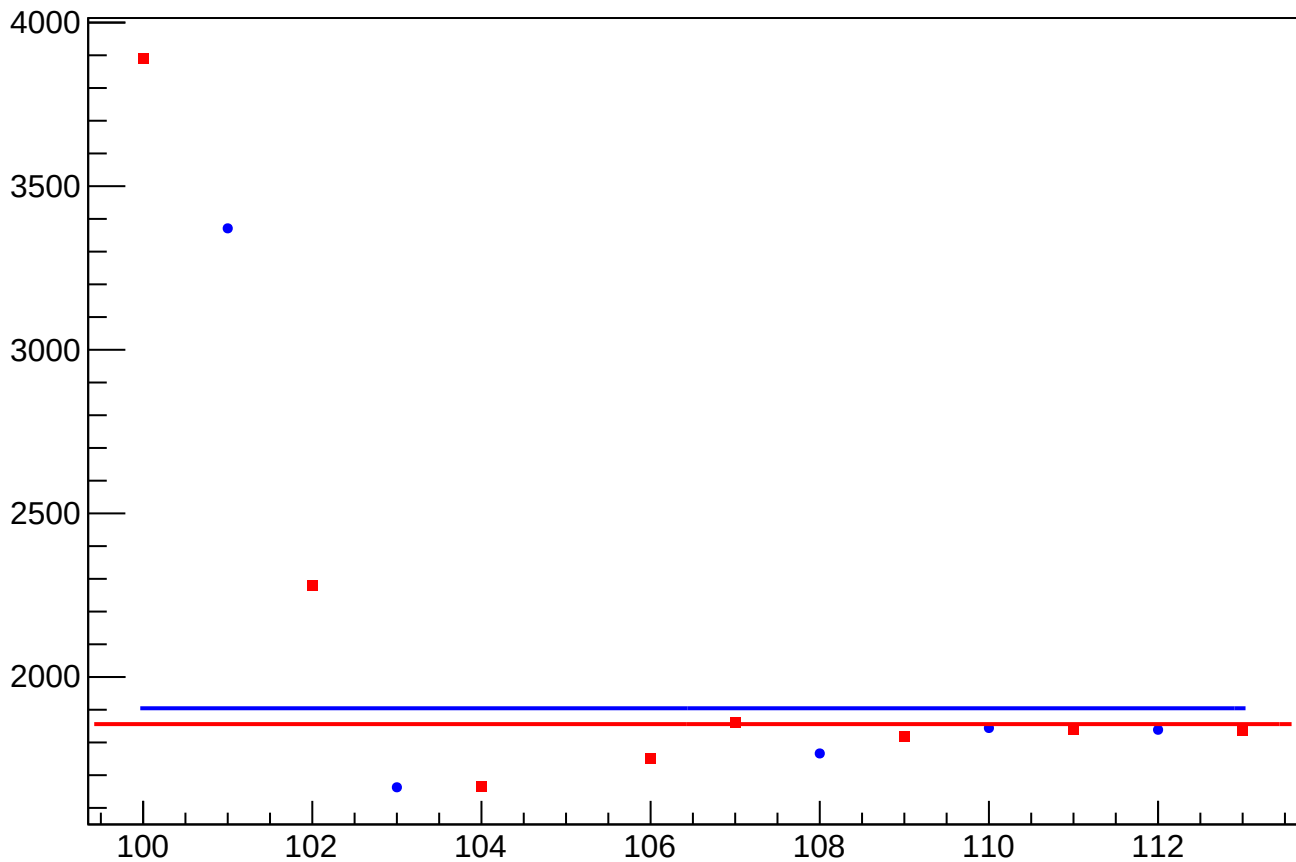
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -582.370+/-806.402  $\chi^2/\text{NDF}$ : 6.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 1904.495+/-0.875  $\chi^2/\text{NDF}$ : 279821.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1856.081+/-0.752  $\chi^2/\text{NDF}$ : 93688.6/7

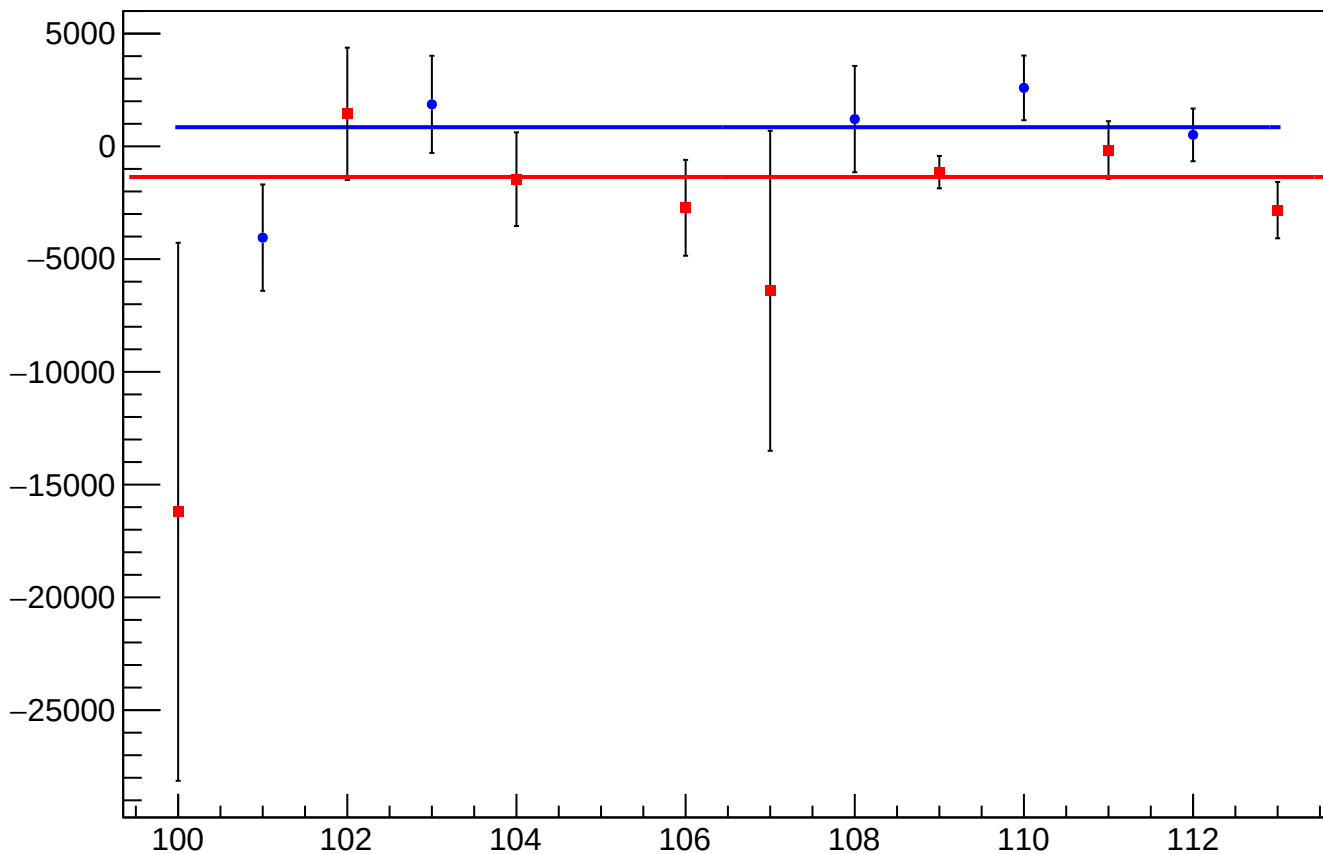
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1876.653+/-0.570  $\chi^2/\text{NDF}$ : 375271.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_reg\_correction\_mean vs Slug



Right In: 849.786+/-746.803  $\chi^2/\text{NDF}$ : 6.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1357.809+/-513.519  $\chi^2/\text{NDF}$ : 5.7/7

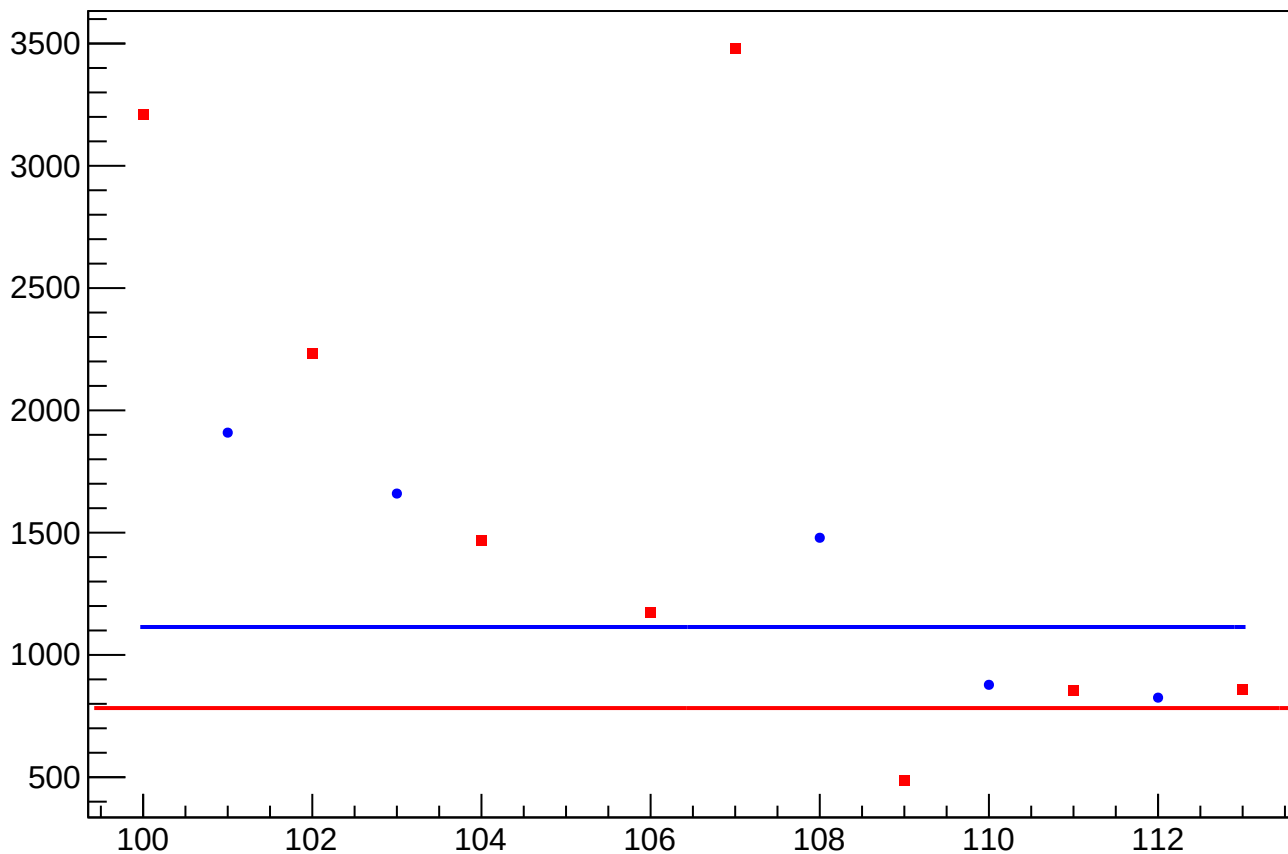
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -649.099+/-423.137  $\chi^2/\text{NDF}$ : 17.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_reg\_correction\_rms vs Slug



Right In: 1114.201+/-0.528  $\chi^2/\text{NDF}$ : 579834.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 782.742+/-0.363  $\chi^2/\text{NDF}$ : 1500447.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

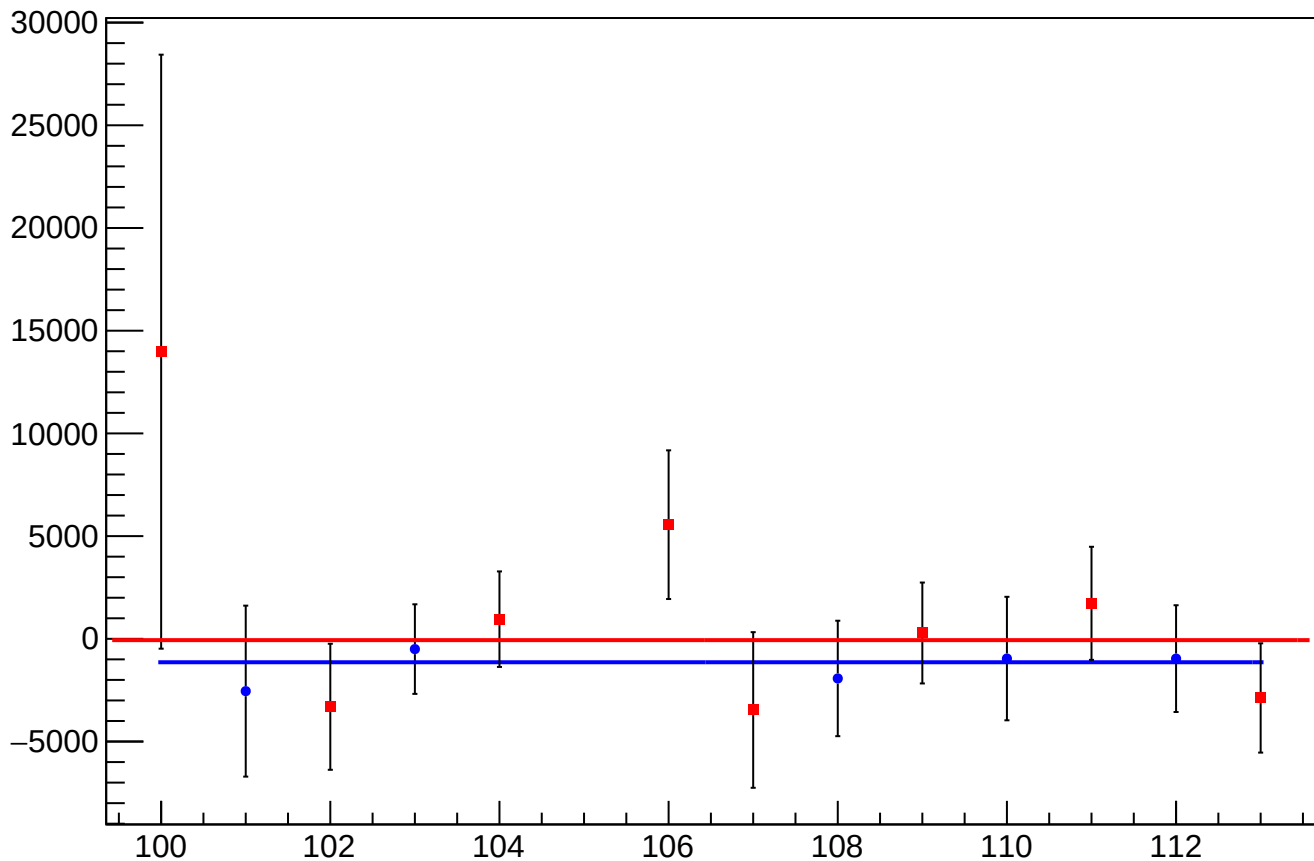
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 889.151+/-0.299  $\chi^2/\text{NDF}$ : 2347784.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



cor\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1140.771+/-1237.077  $\chi^2/\text{NDF}$ : 0.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -63.724+/-1065.341  $\chi^2/\text{NDF}$ : 7.0/7

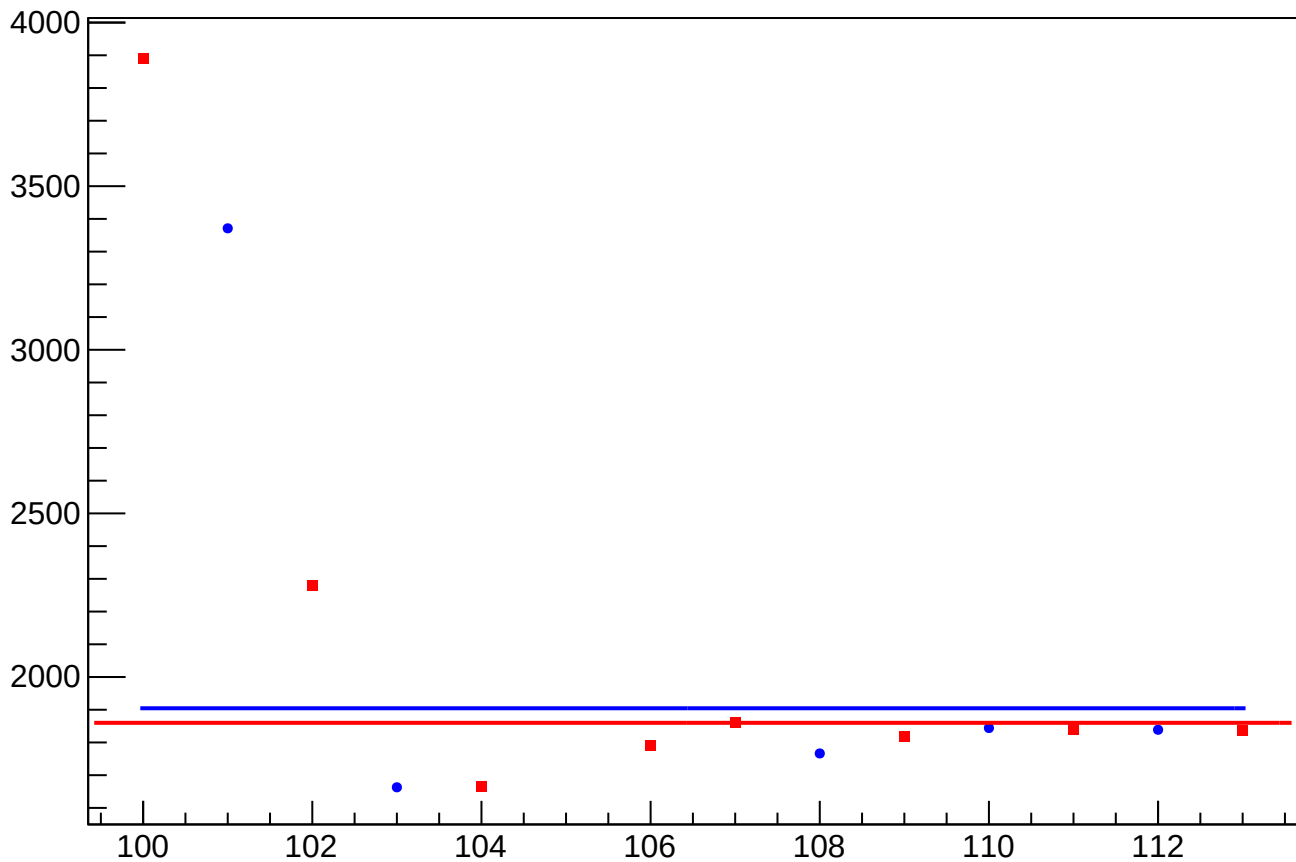
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -522.356+/-807.256  $\chi^2/\text{NDF}$ : 7.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 1904.495+/-0.875  $\chi^2/\text{NDF}$ : 279823.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1860.012+/-0.753  $\chi^2/\text{NDF}$ : 92527.6/7

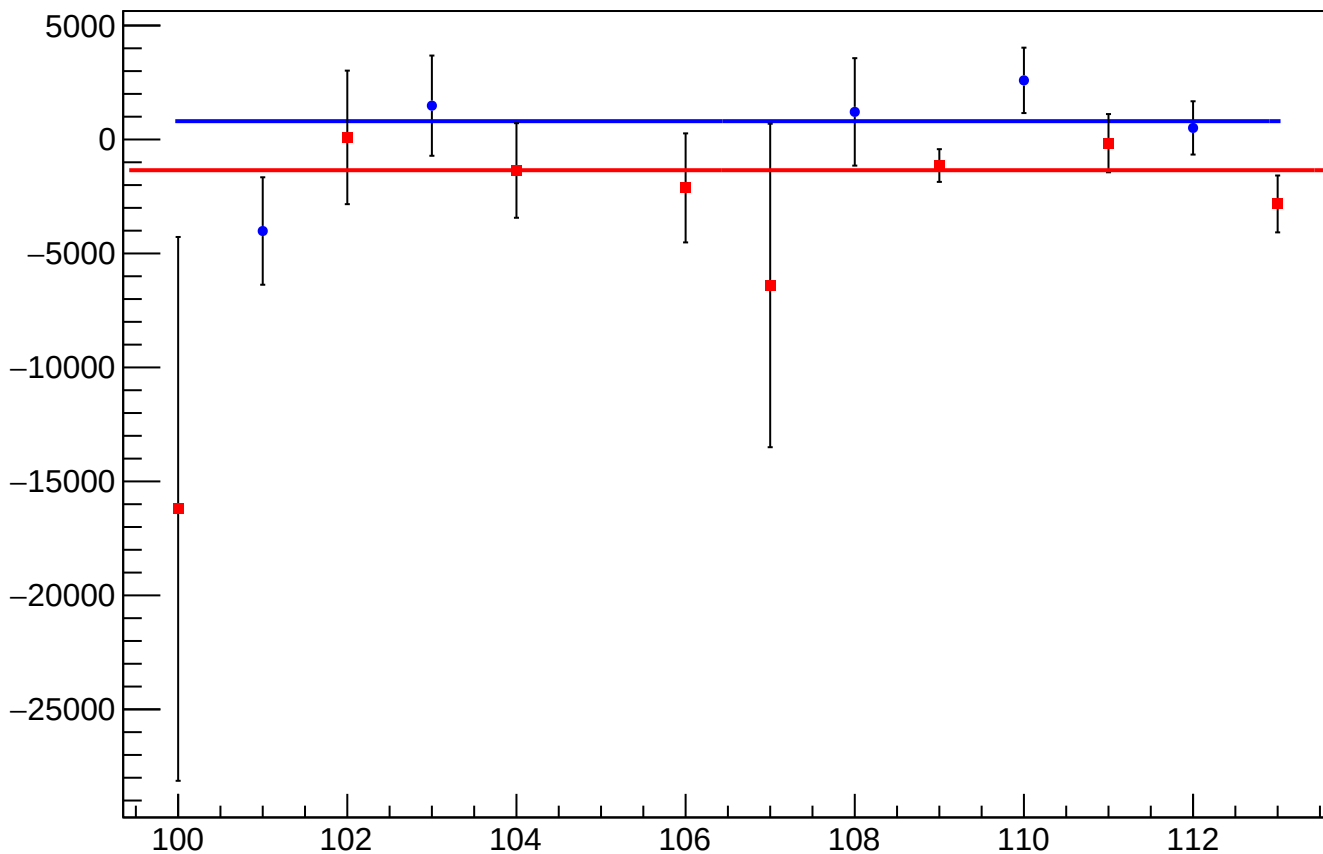
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1878.954+/-0.571  $\chi^2/\text{NDF}$ : 373835.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_cor\_correction\_mean vs Slug



Right In: 803.693+/-748.574  $\chi^2/\text{NDF}$ : 5.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1347.866+/-516.624  $\chi^2/\text{NDF}$ : 4.8/7

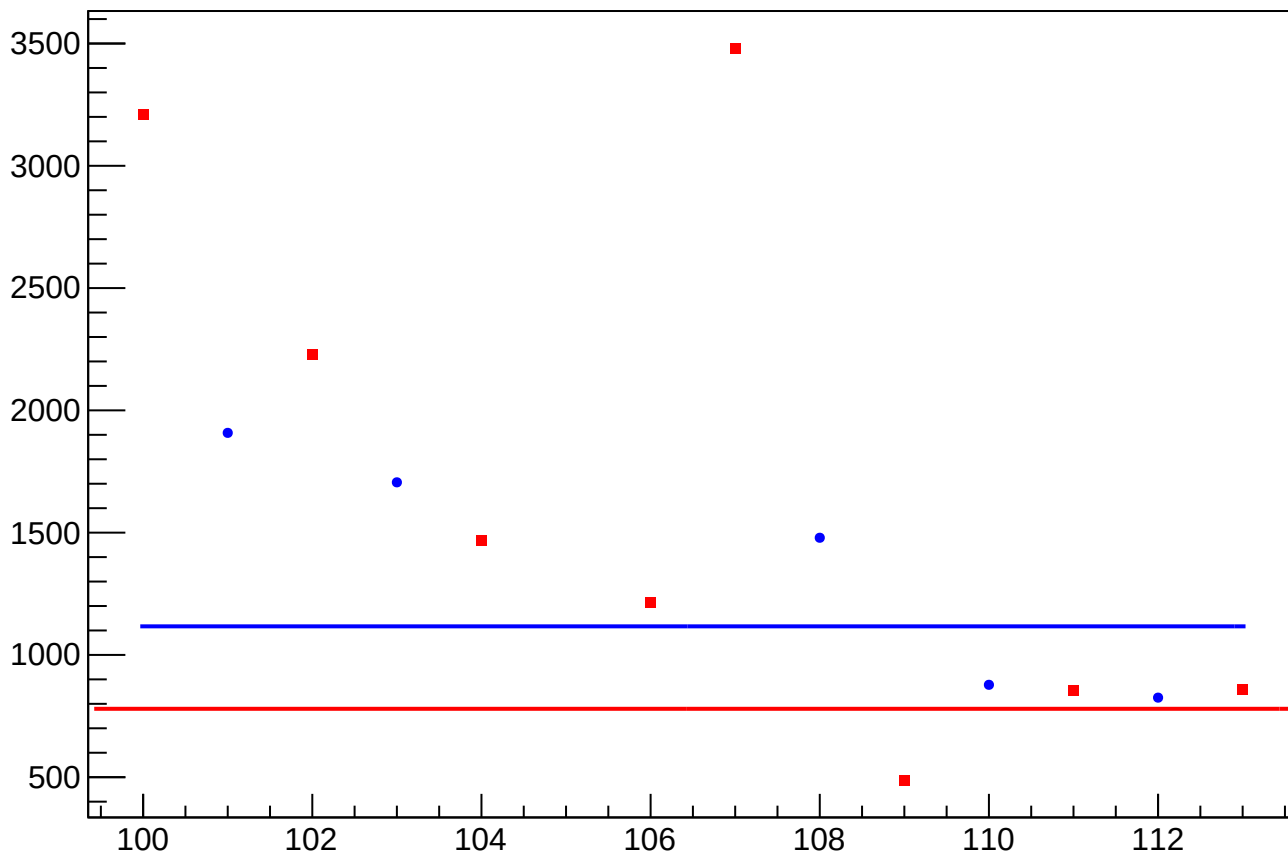
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -653.708+/-425.195  $\chi^2/\text{NDF}$ : 16.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_cor\_correction\_rms vs Slug



Right In: 1116.854 $\pm$ 0.529  $\chi^2$ /NDF: 595950.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 779.709 $\pm$ 0.365  $\chi^2$ /NDF: 1495962.7/7

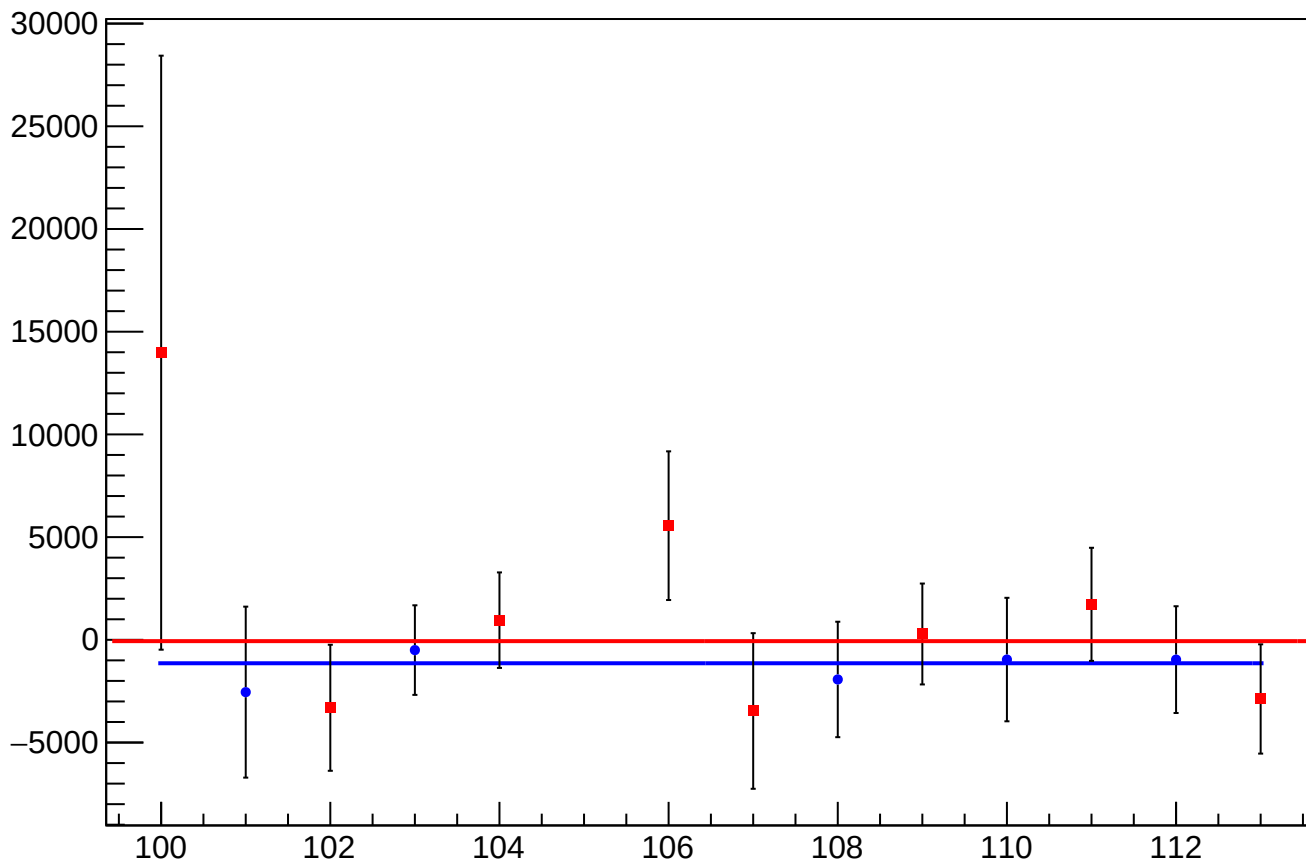
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 888.482 $\pm$ 0.301  $\chi^2$ /NDF: 2366713.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1140.771+/-1237.077  $\chi^2/\text{NDF}$ : 0.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -63.724+/-1065.341  $\chi^2/\text{NDF}$ : 7.0/7

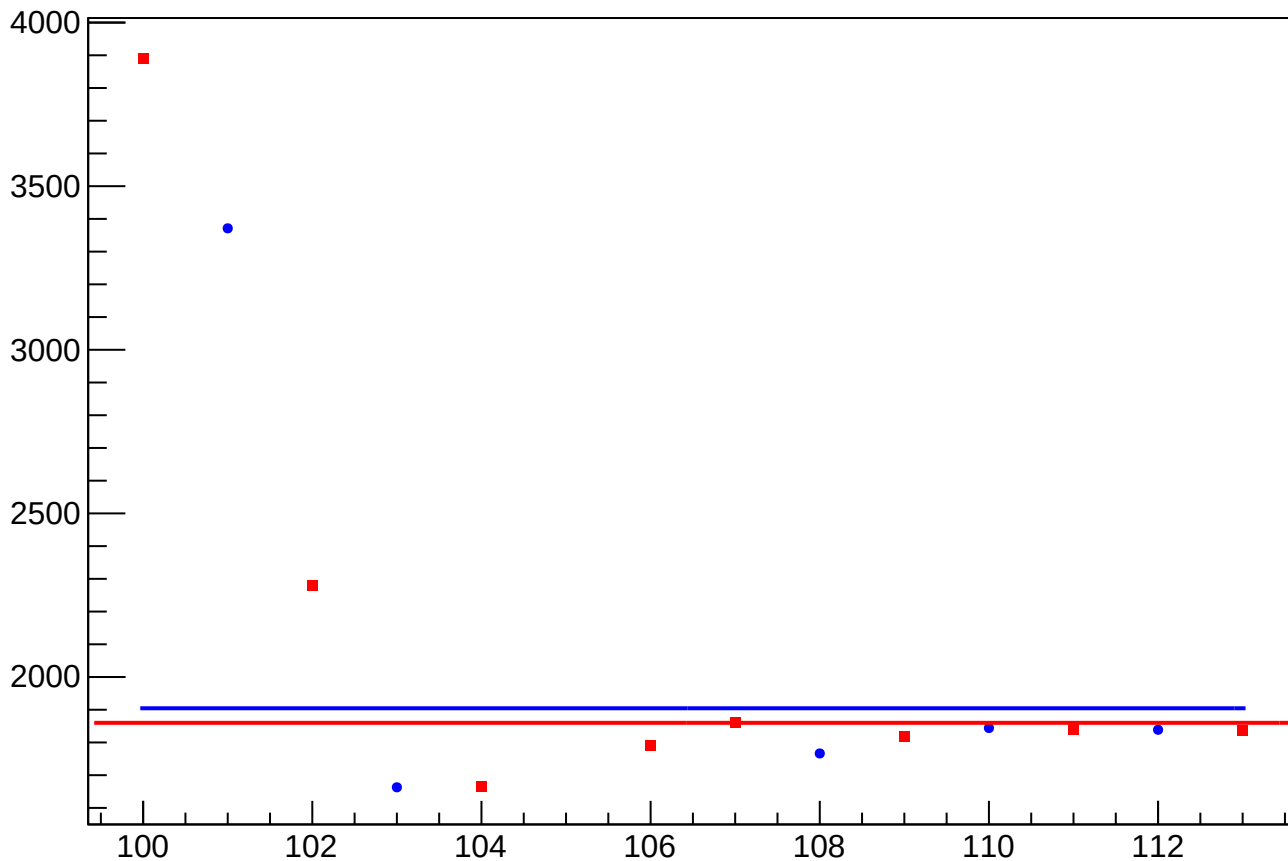
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -522.356+/-807.256  $\chi^2/\text{NDF}$ : 7.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 1904.495+/-0.875  $\chi^2/\text{NDF}$ : 279823.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1860.012+/-0.753  $\chi^2/\text{NDF}$ : 92527.6/7

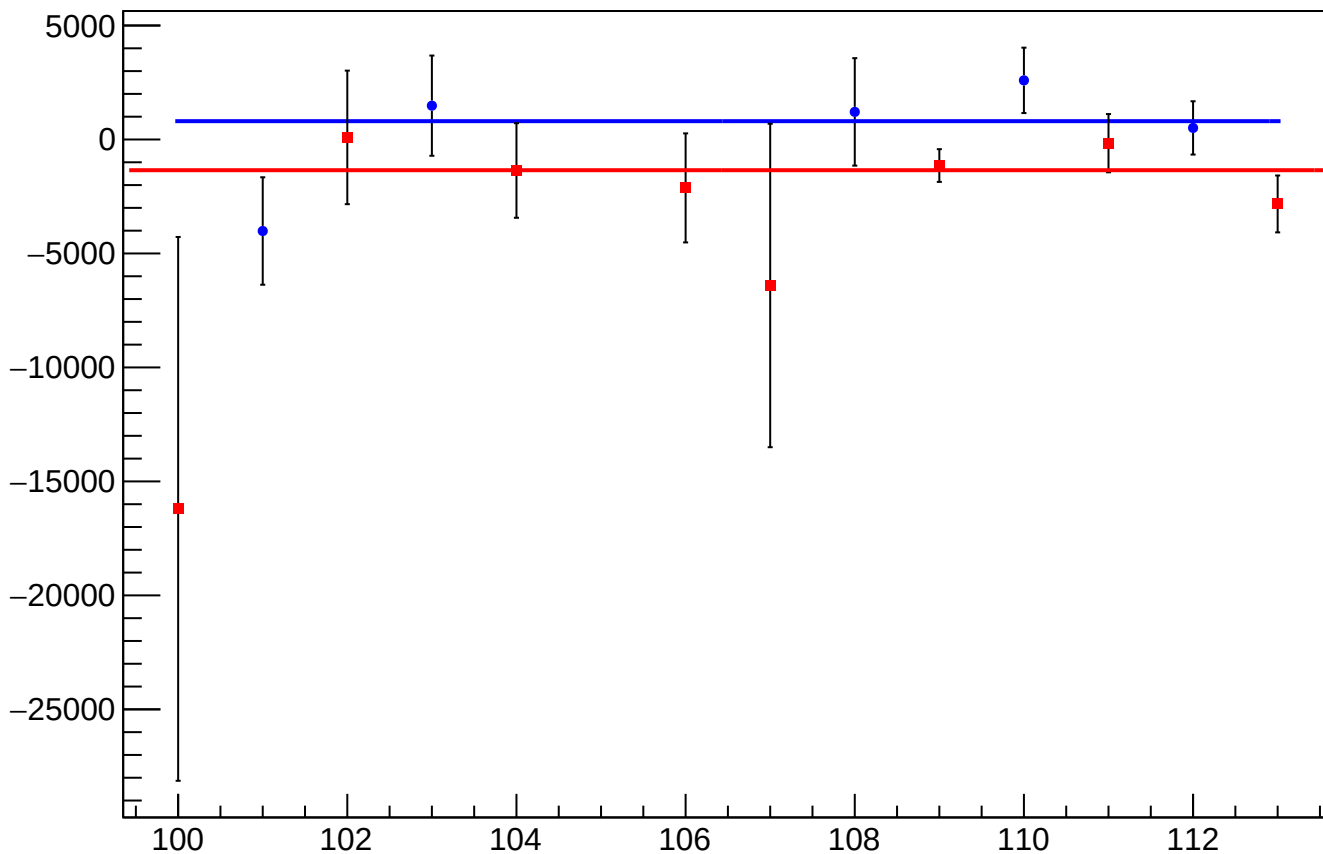
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1878.954+/-0.571  $\chi^2/\text{NDF}$ : 373835.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 803.693+/-748.574  $\chi^2/\text{NDF}$ : 5.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1347.866+/-516.624  $\chi^2/\text{NDF}$ : 4.8/7

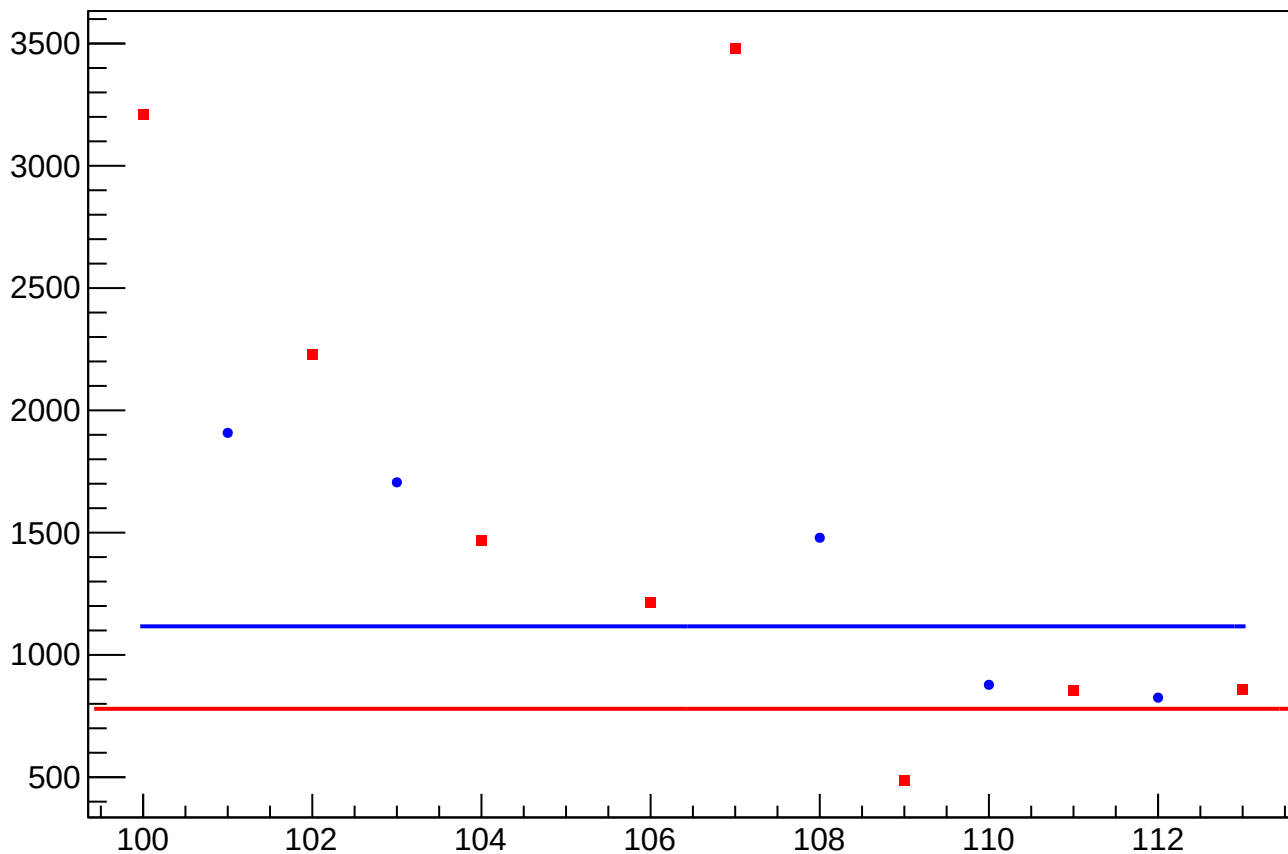
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -653.708+/-425.195  $\chi^2/\text{NDF}$ : 16.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1116.854+/-0.529  $\chi^2/\text{NDF}$ : 595950.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 779.709+/-0.365  $\chi^2/\text{NDF}$ : 1495962.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

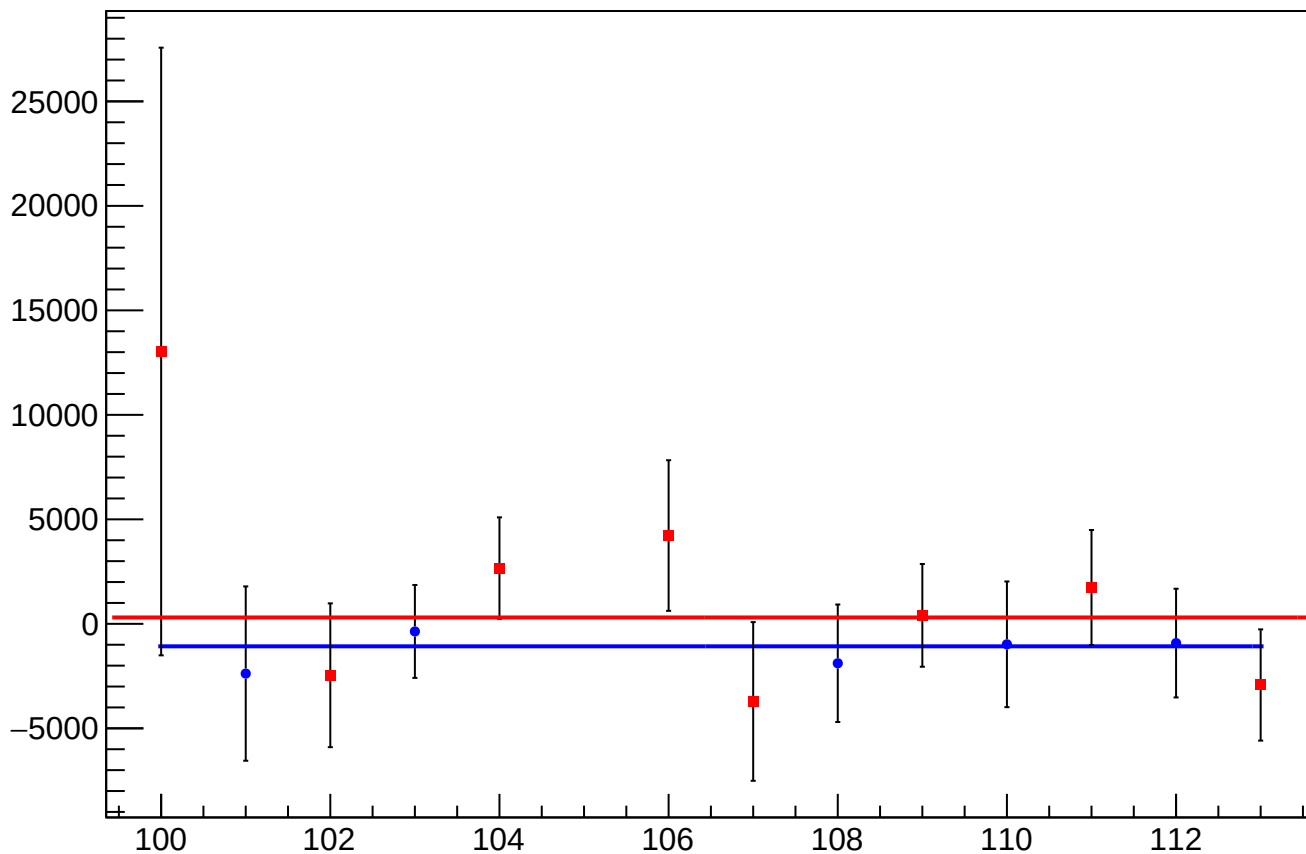
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 888.482+/-0.301  $\chi^2/\text{NDF}$ : 2366713.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1075.721+/-1245.294  $\chi^2/\text{NDF}$ : 0.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 304.909+/-1088.751  $\chi^2/\text{NDF}$ : 6.4/7

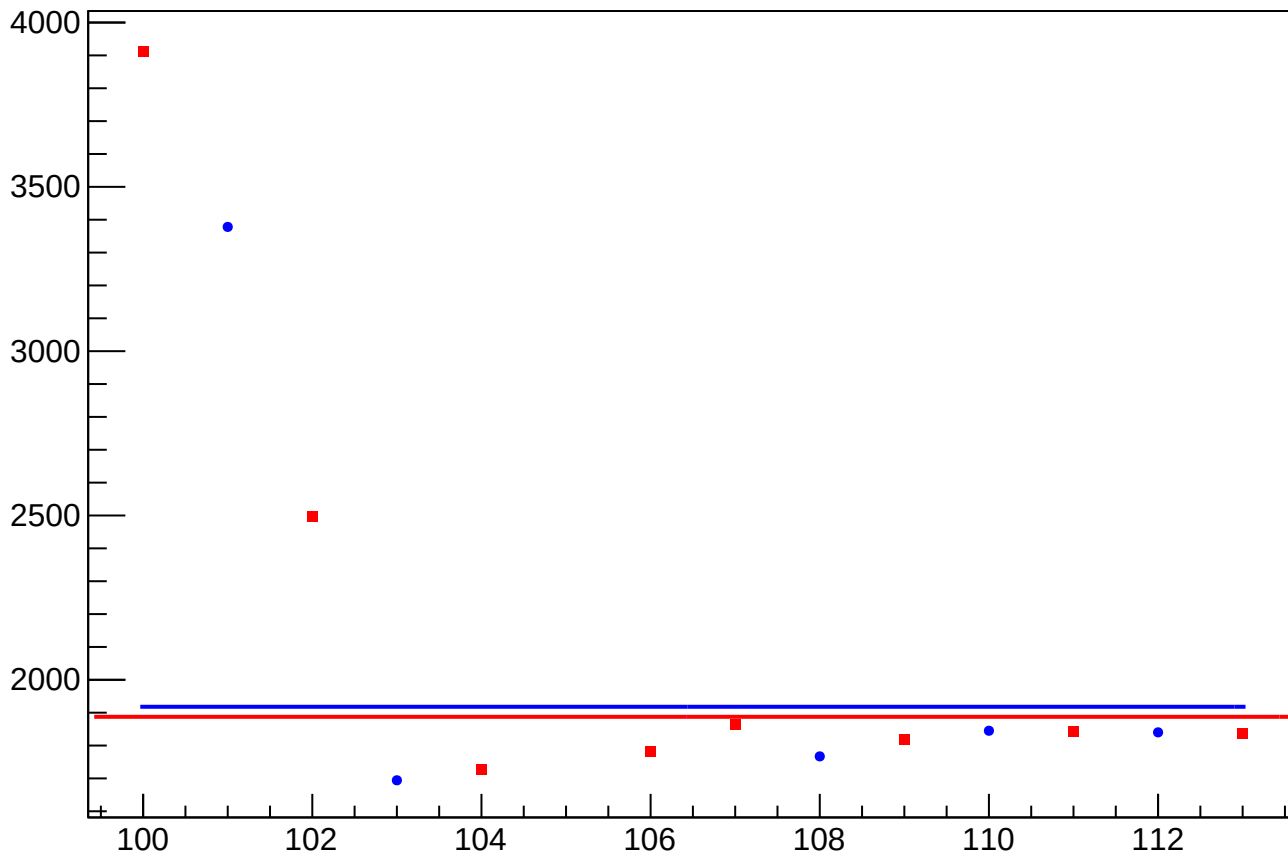
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -293.222+/-819.656  $\chi^2/\text{NDF}$ : 7.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 1918.004+/-0.881  $\chi^2$ /NDF: 274134.7/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1887.470+/-0.770  $\chi^2$ /NDF: 114847.7/7

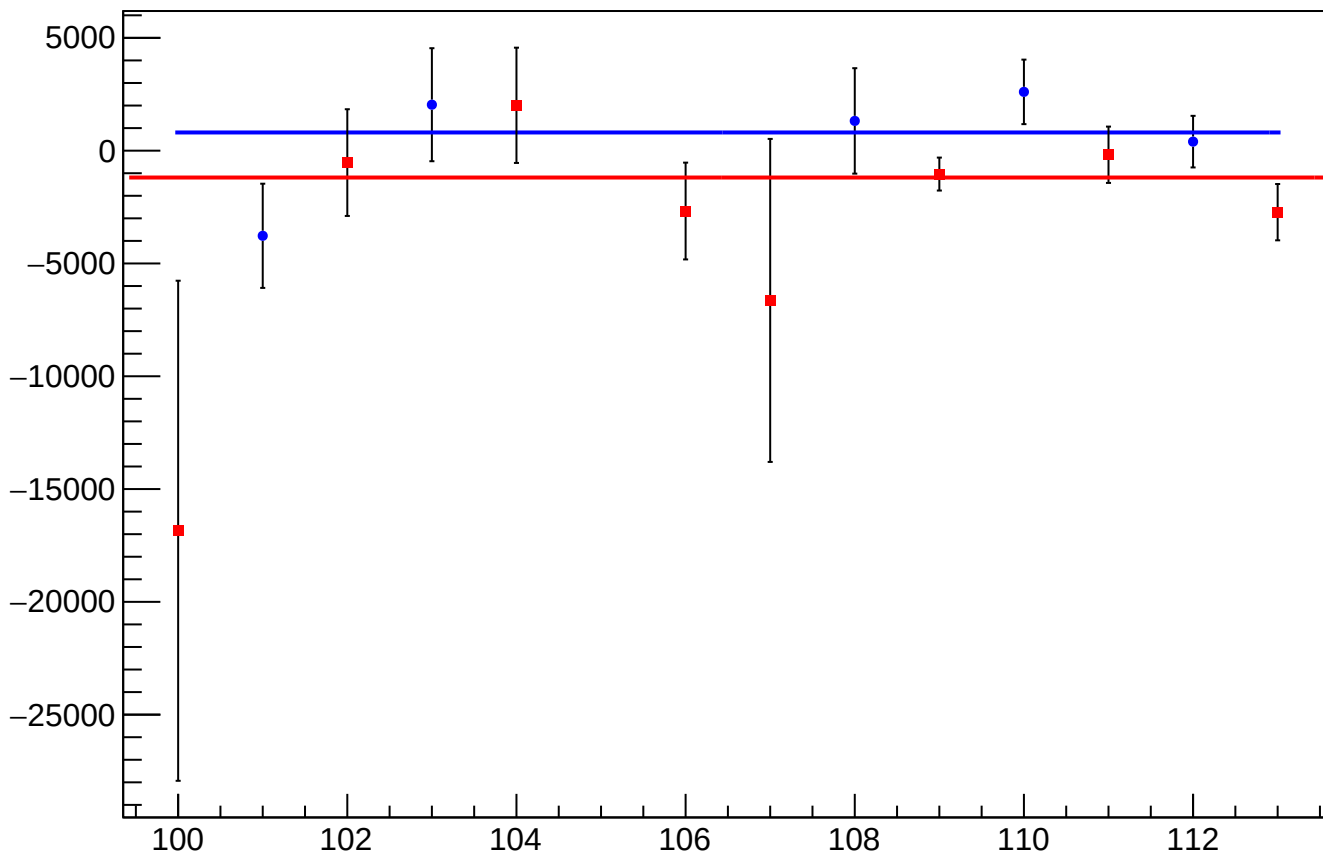
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 1900.698+/-0.580  $\chi^2$ /NDF: 389663.9/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_dit\_correction\_mean vs Slug



Right In: 806.650+/-748.732  $\chi^2/\text{NDF}$ : 5.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1190.354+/-517.463  $\chi^2/\text{NDF}$ : 6.9/7

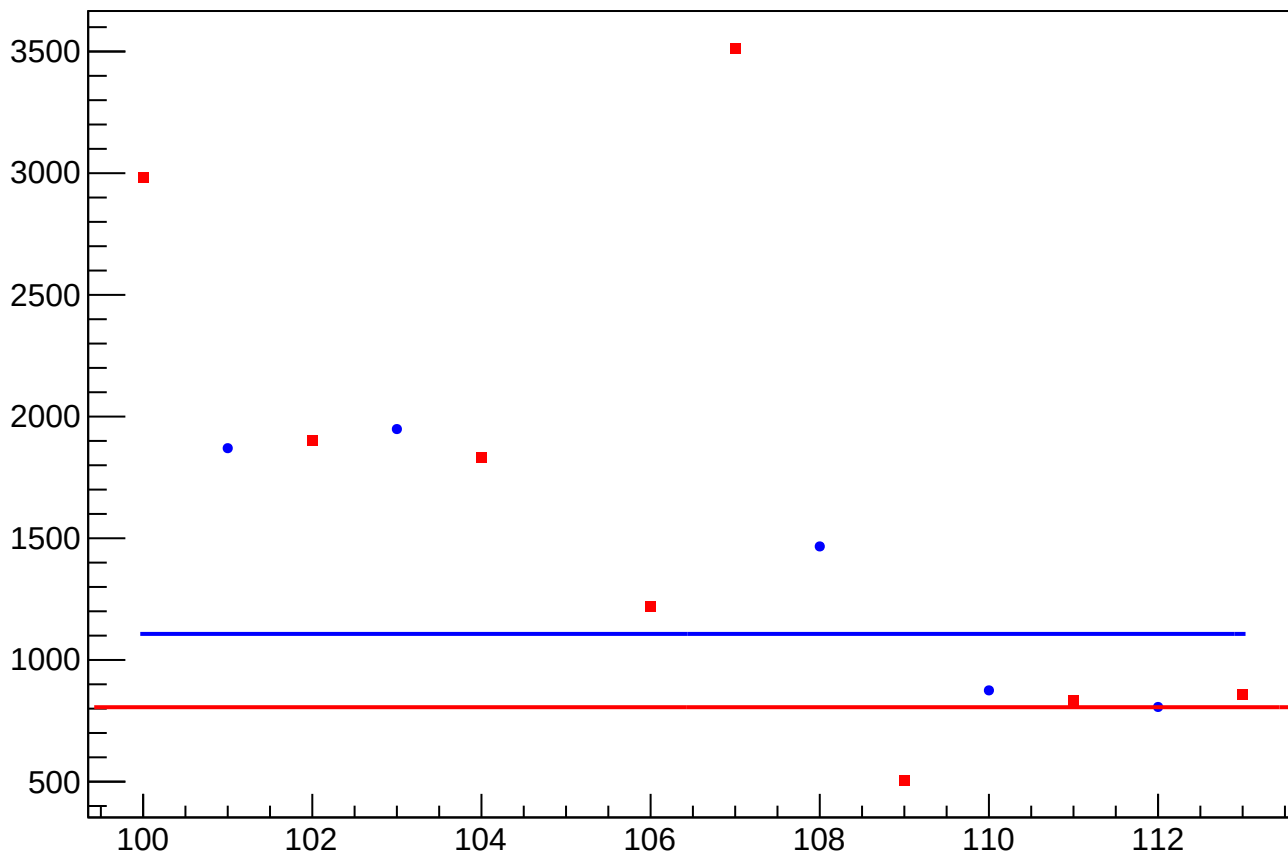
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -544.827+/-425.690  $\chi^2/\text{NDF}$ : 17.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_dit\_correction\_rms vs Slug



Right In: 1107.079+/-0.529  $\chi^2/\text{NDF}$ : 681926.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

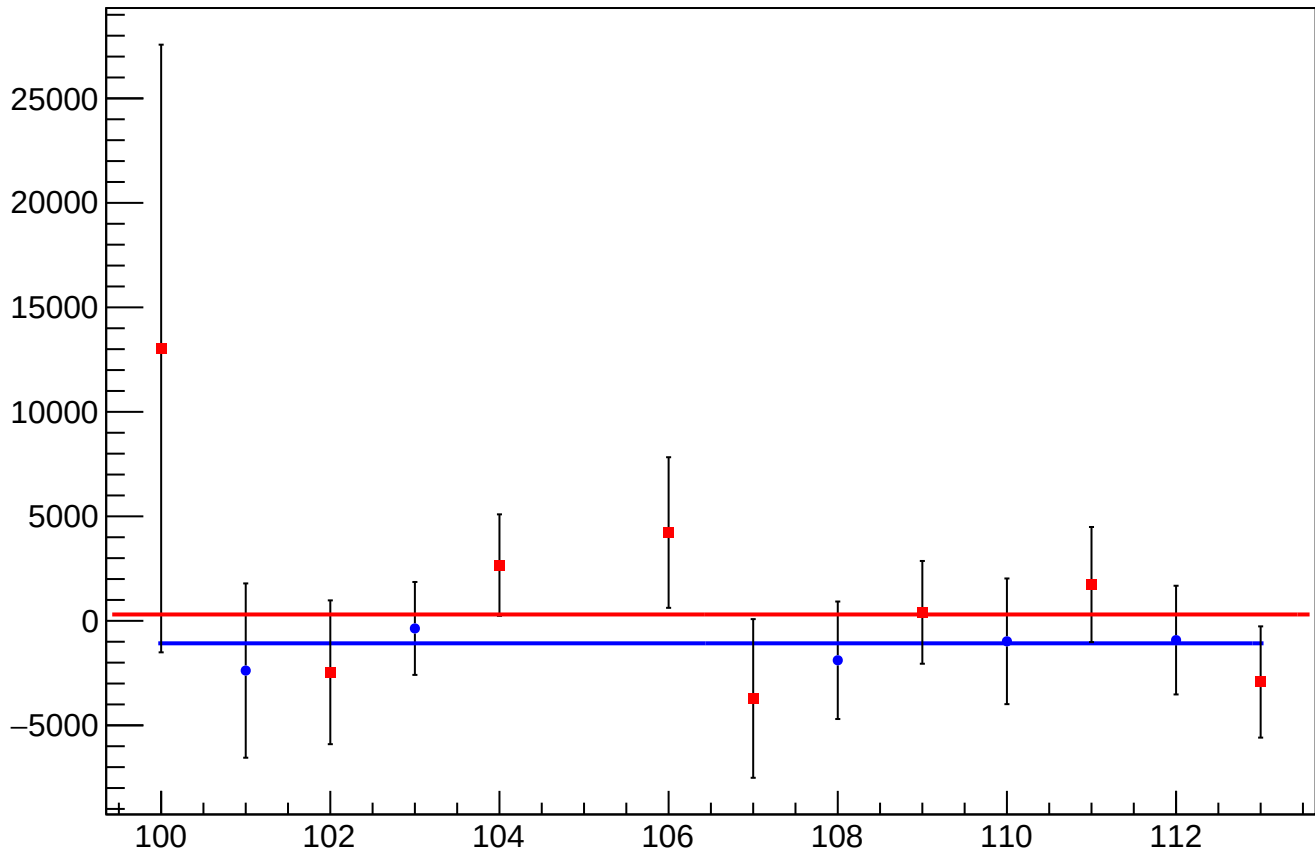
Right Out: 805.912+/-0.366  $\chi^2/\text{NDF}$ : 1537481.1/7

All: 903.264+/-0.301  $\chi^2/\text{NDF}$ : 2438397.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1075.720+/-1245.294  $\chi^2/\text{NDF}$ : 0.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 304.914+/-1088.751  $\chi^2/\text{NDF}$ : 6.4/7

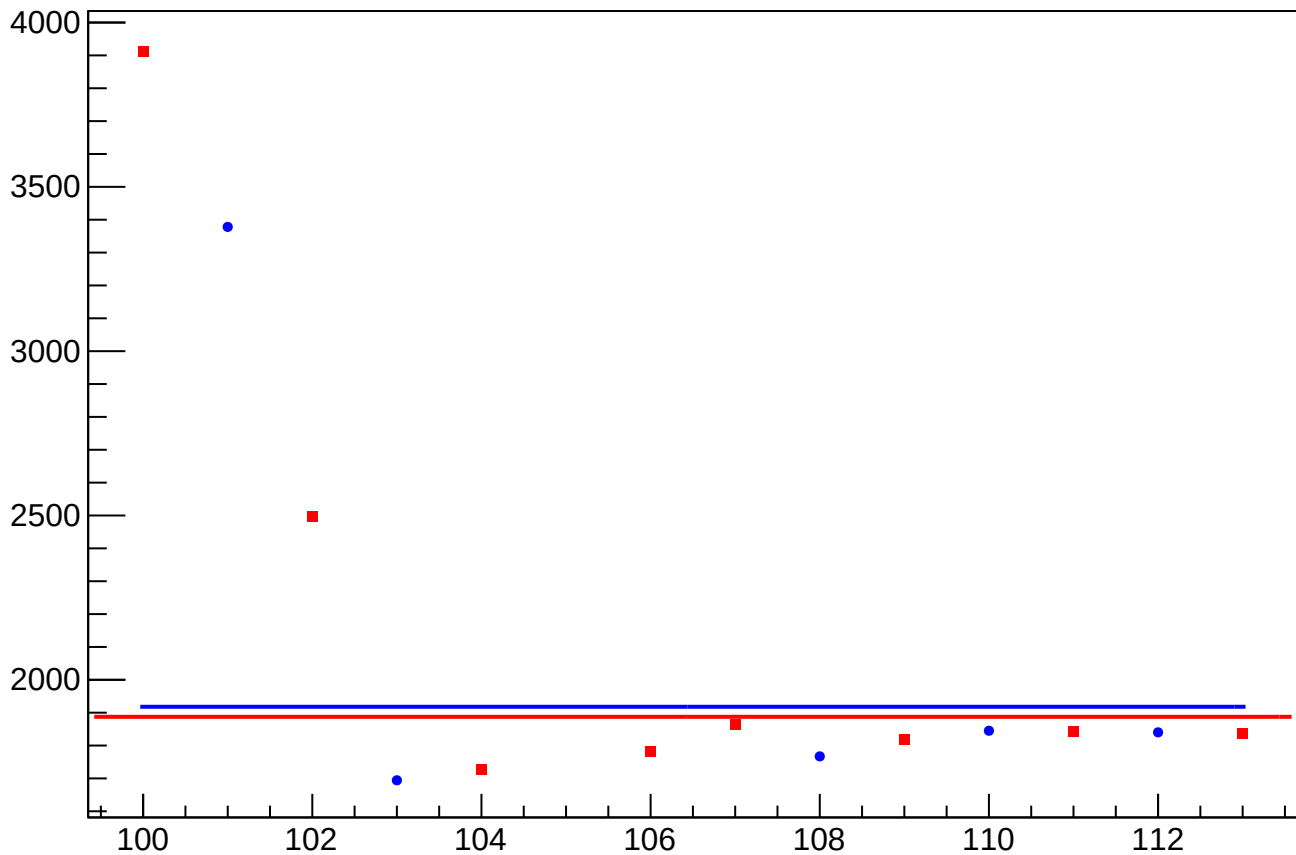
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -293.219+/-819.656  $\chi^2/\text{NDF}$ : 7.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 1918.004 $\pm$ 0.881  $\chi^2$ /NDF: 274134.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1887.470 $\pm$ 0.770  $\chi^2$ /NDF: 114847.7/7

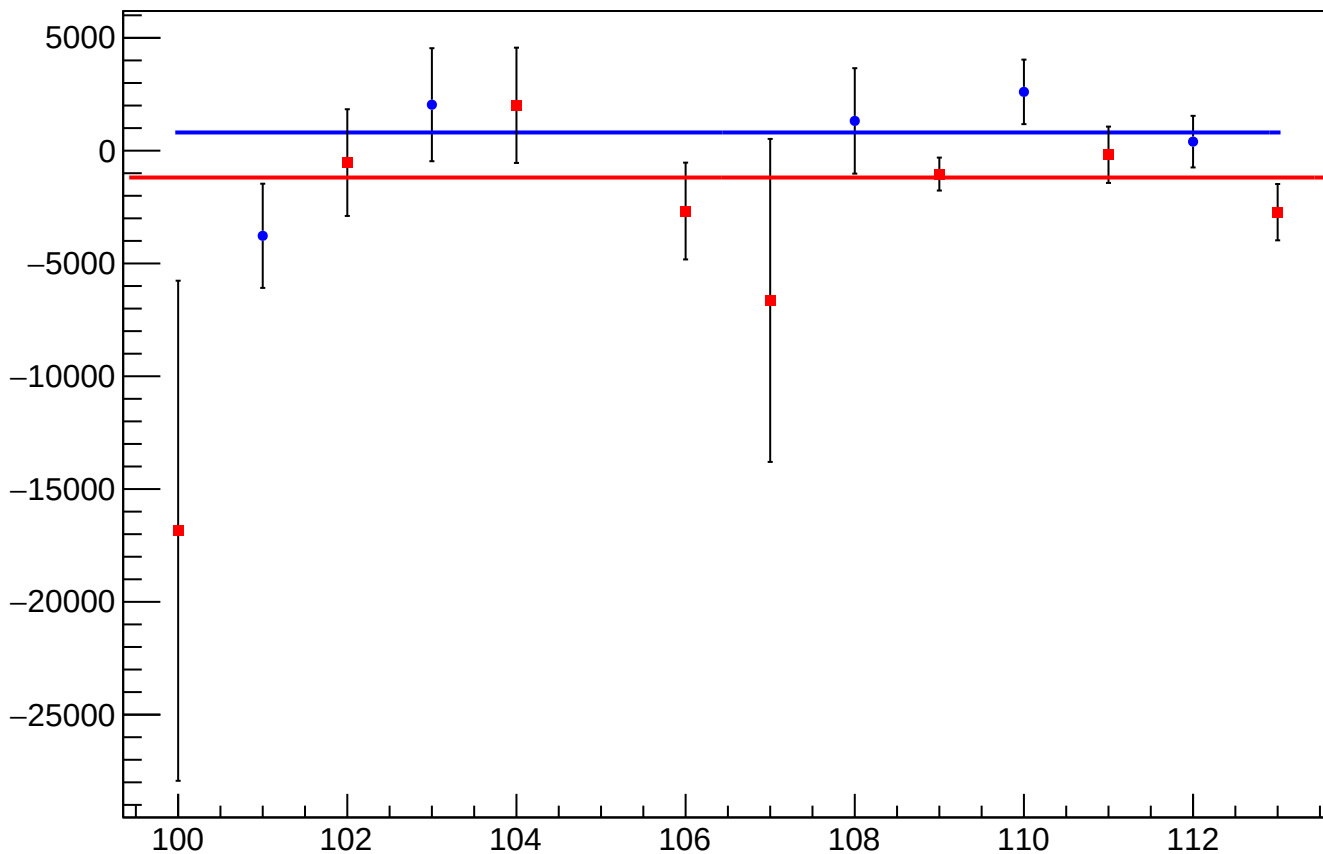
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1900.698 $\pm$ 0.580  $\chi^2$ /NDF: 389663.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 806.648+/-748.727  $\chi^2/\text{NDF}$ : 5.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1190.352+/-517.462  $\chi^2/\text{NDF}$ : 6.9/7

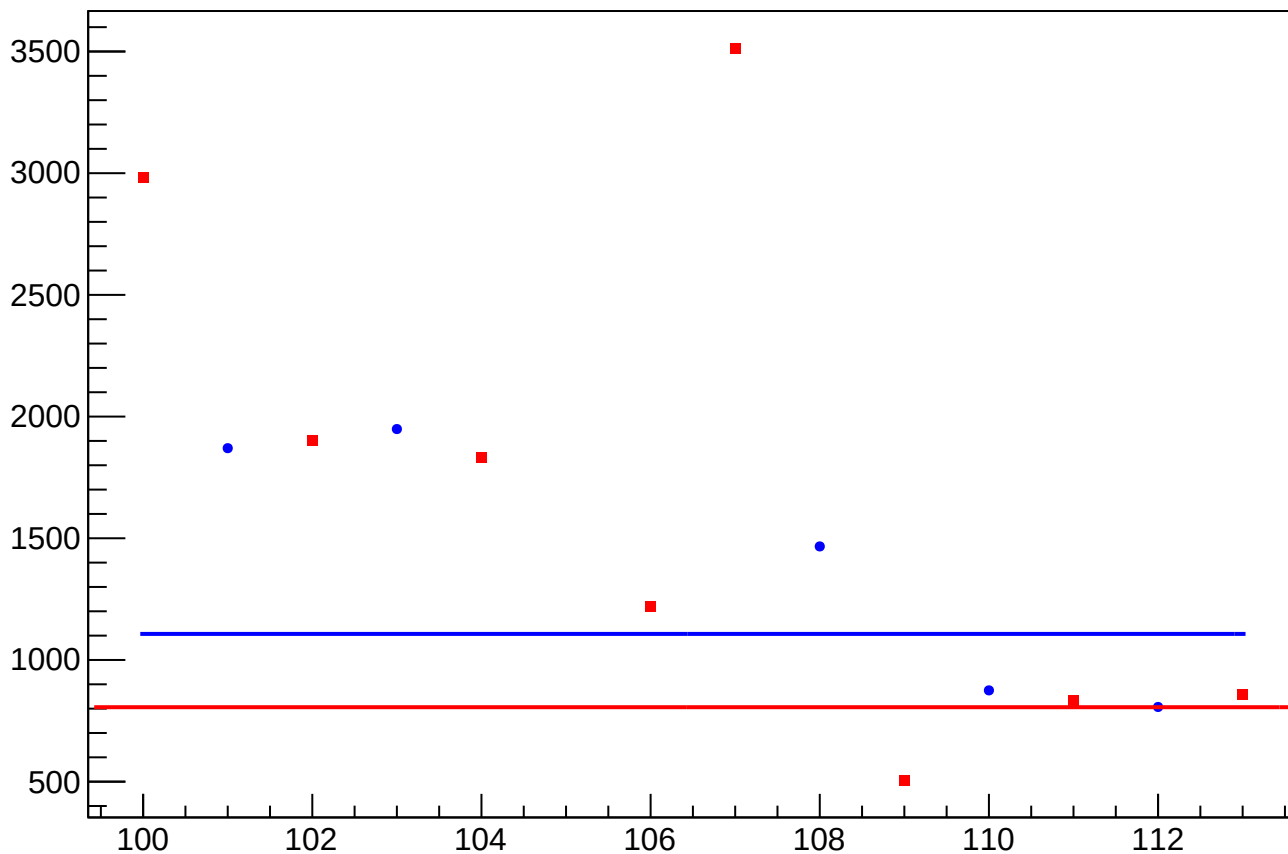
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -544.823+/-425.689  $\chi^2/\text{NDF}$ : 17.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1107.071+/-0.529  $\chi^2/\text{NDF}$ : 681937.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 805.911+/-0.366  $\chi^2/\text{NDF}$ : 1537475.7/7

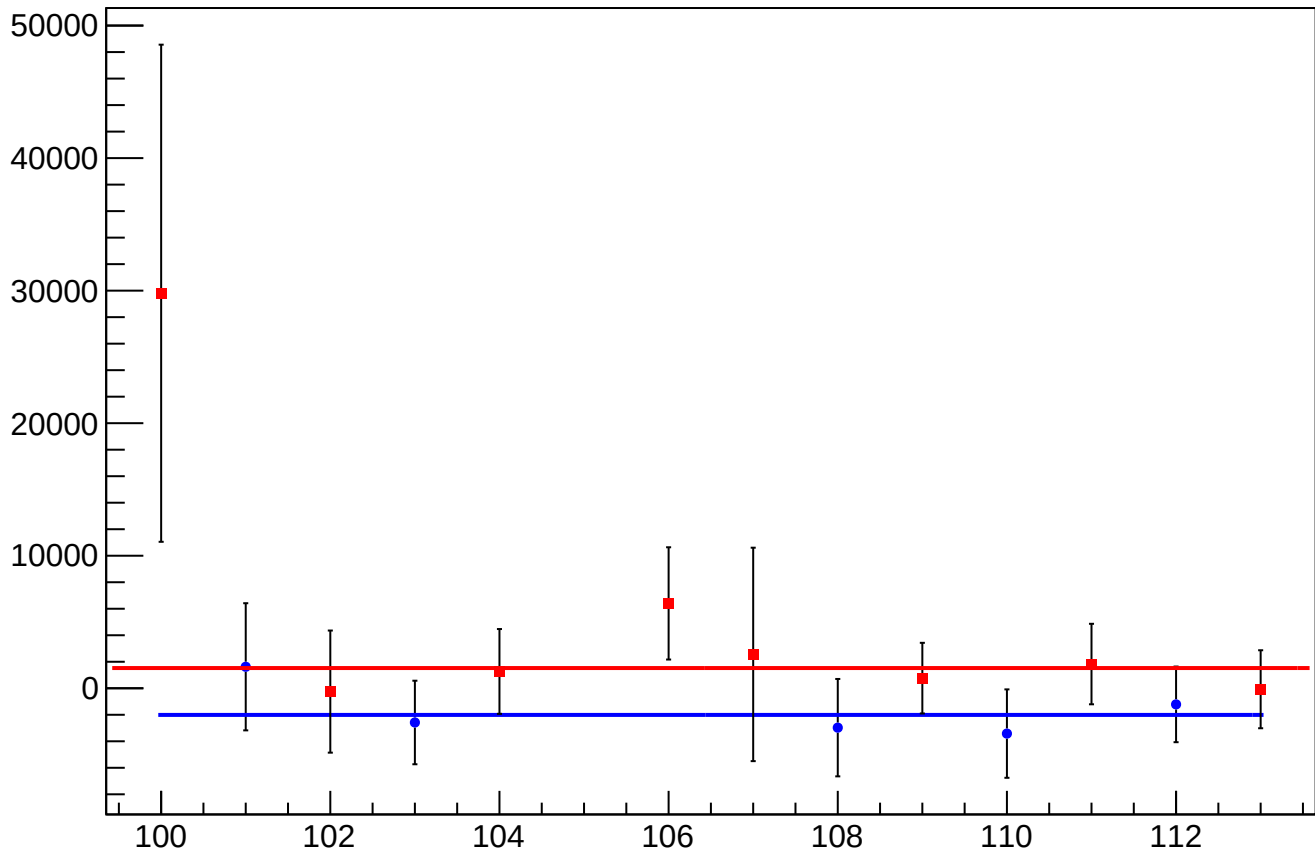
All: 903.261+/-0.301  $\chi^2/\text{NDF}$ : 2438393.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -2010.551+/-1523.333  $\chi^2/\text{NDF}$ : 0.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1525.698+/-1309.058  $\chi^2/\text{NDF}$ : 4.2/7

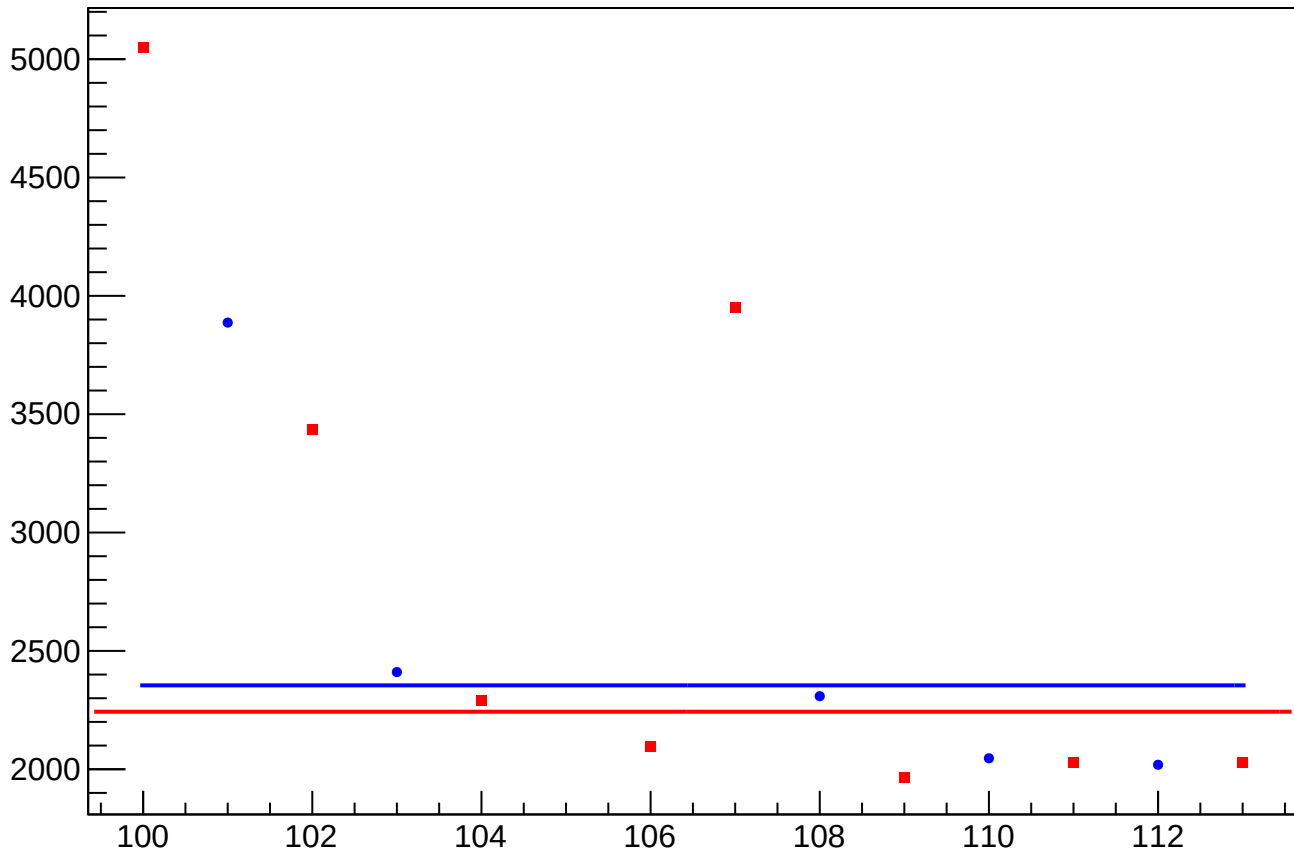
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.574+/-992.833  $\chi^2/\text{NDF}$ : 8.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 2354.358 $\pm$ 1.077  $\chi^2$ /NDF: 249846.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2243.039 $\pm$ 0.926  $\chi^2$ /NDF: 313544.2/7

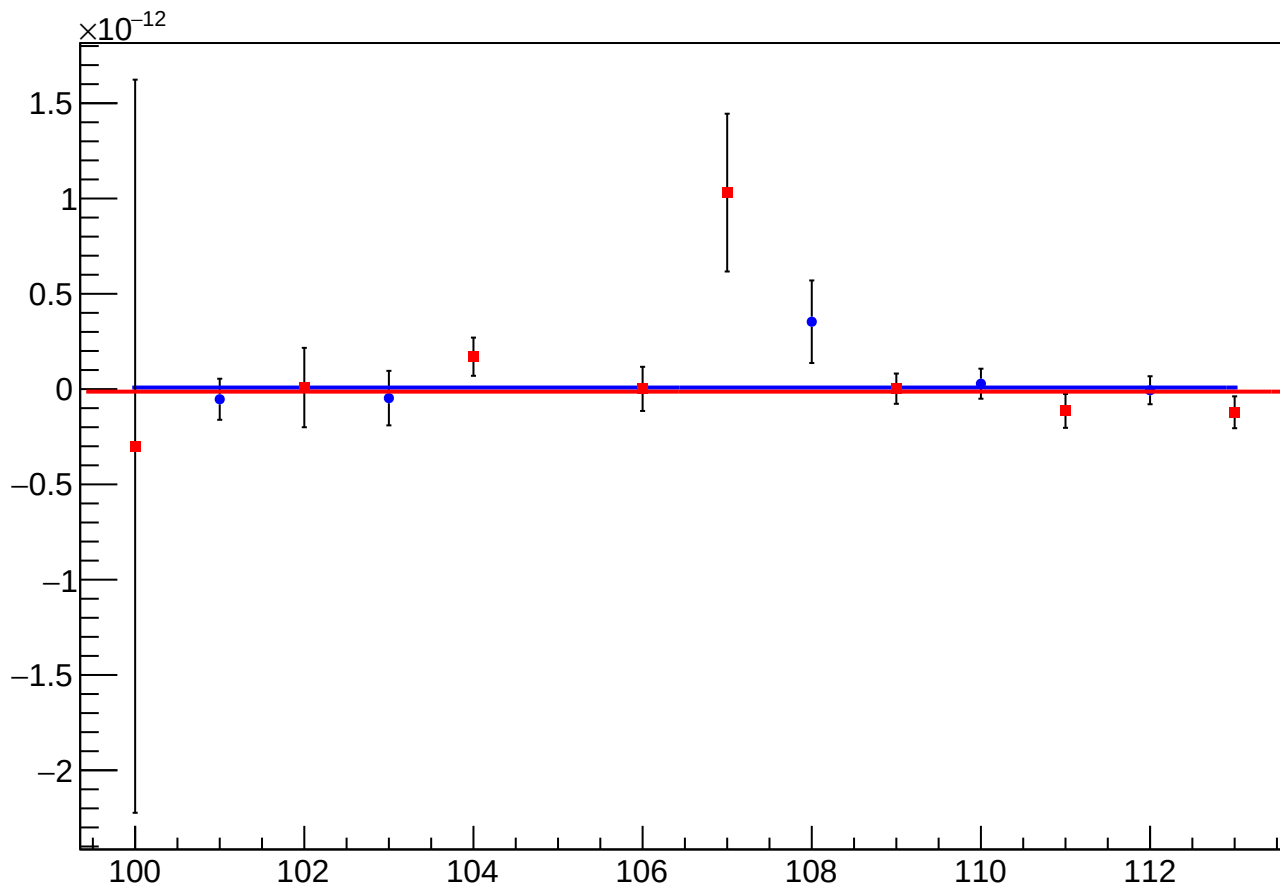
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2290.324 $\pm$ 0.702  $\chi^2$ /NDF: 569534.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.8/7

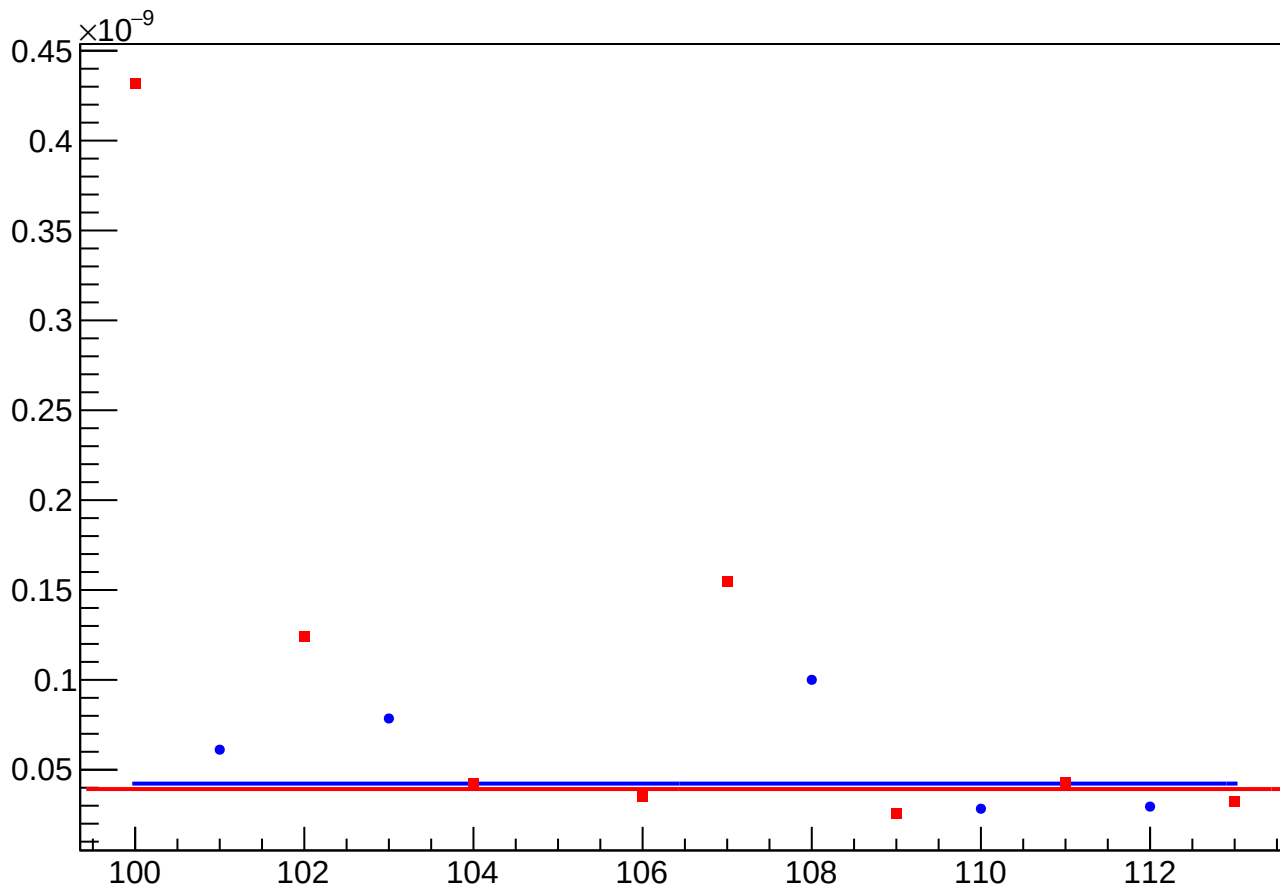
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 455522.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 650716.3/7

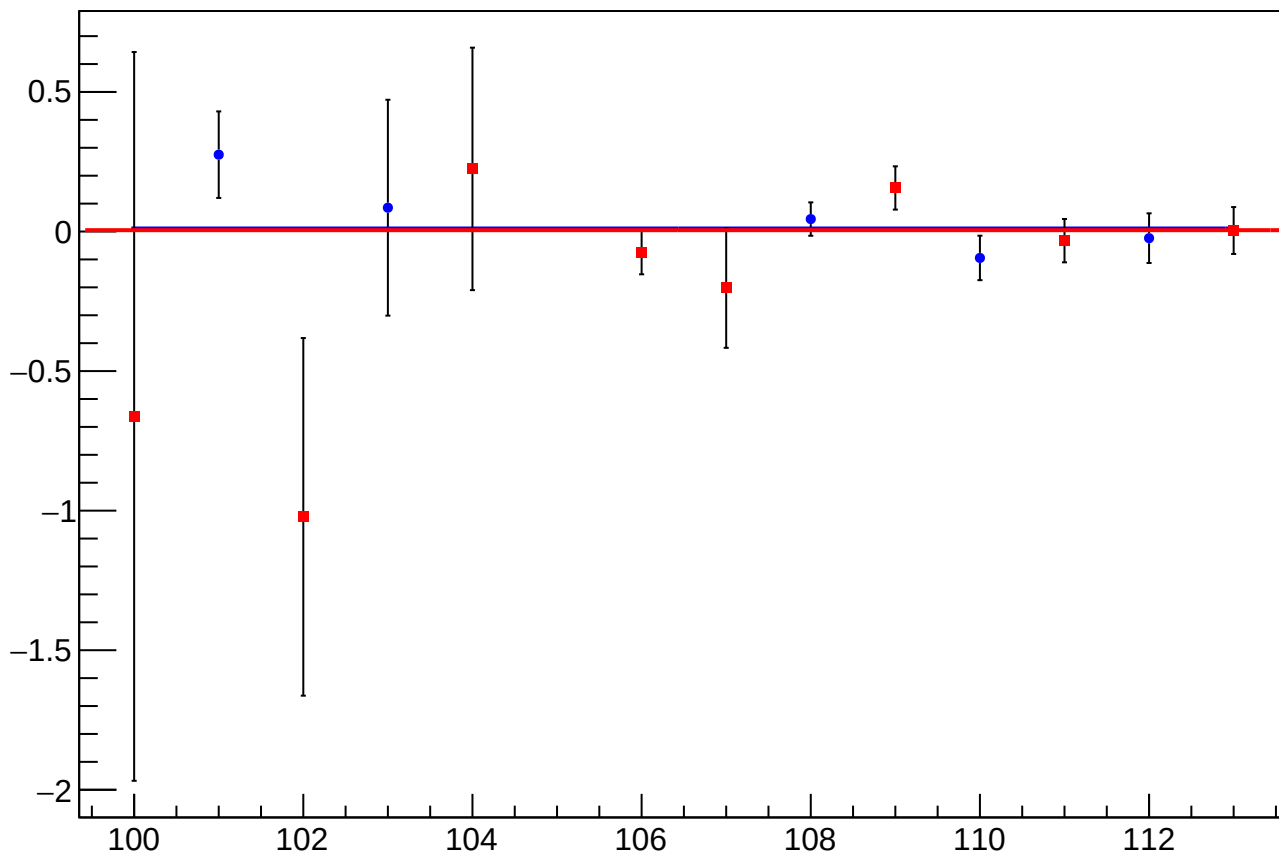
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1111389.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.011 $\pm$ 0.040  $\chi^2$ /NDF: 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.039  $\chi^2$ /NDF: 9.0/7

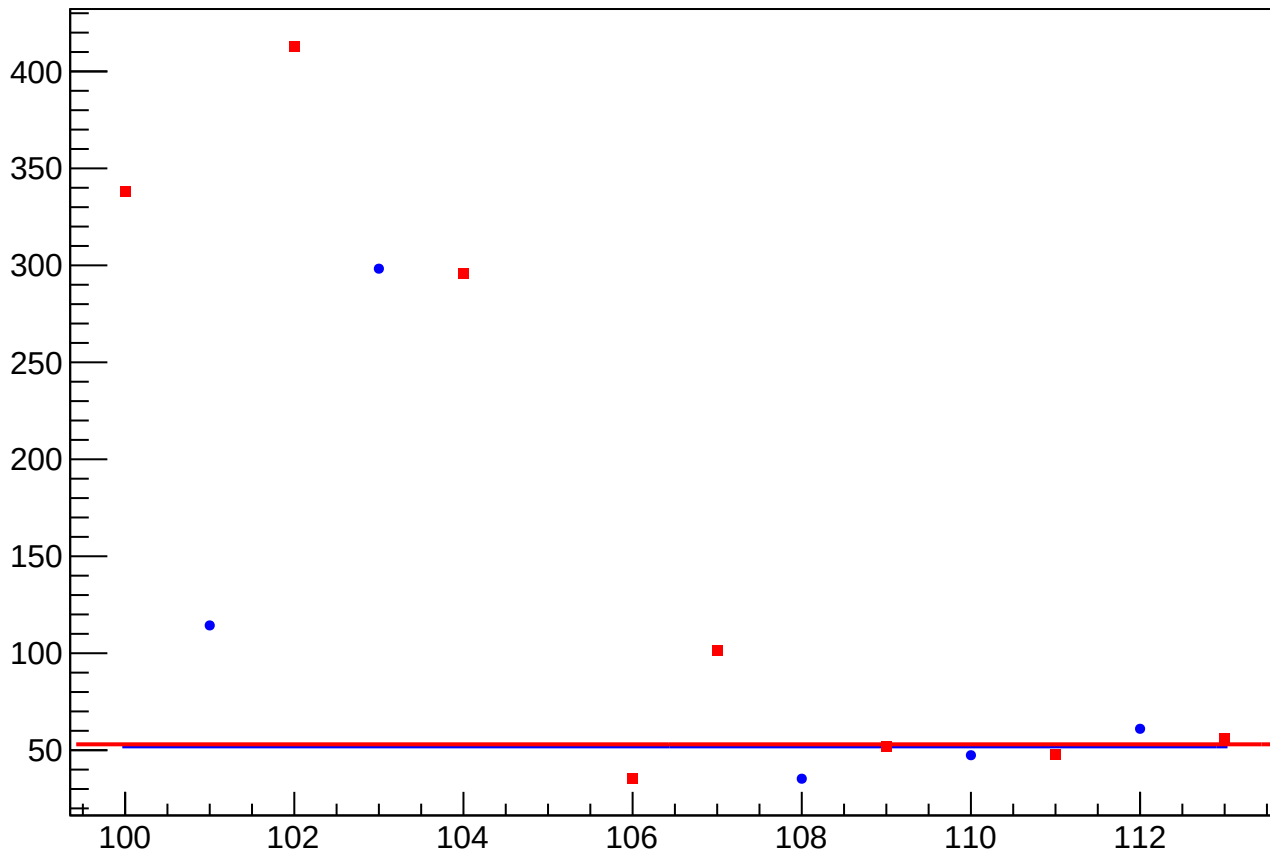
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.028  $\chi^2$ /NDF: 14.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 51.989+/-0.029  $\chi^2/\text{NDF}$ : 1317998.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.038+/-0.027  $\chi^2/\text{NDF}$ : 1565994.4/7

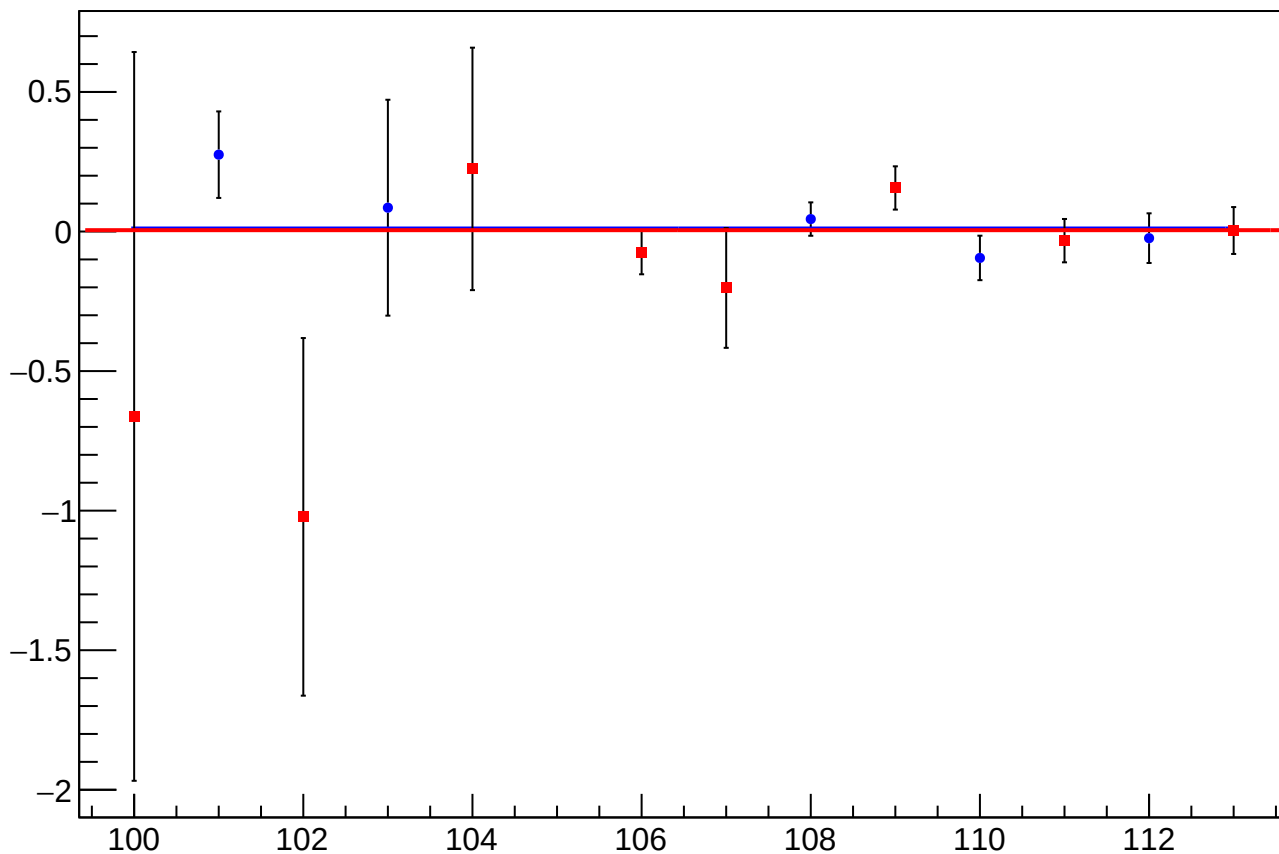
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52.534+/-0.020  $\chi^2/\text{NDF}$ : 2884693.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.011 $\pm$ 0.040  $\chi^2$ /NDF: 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.039  $\chi^2$ /NDF: 9.0/7

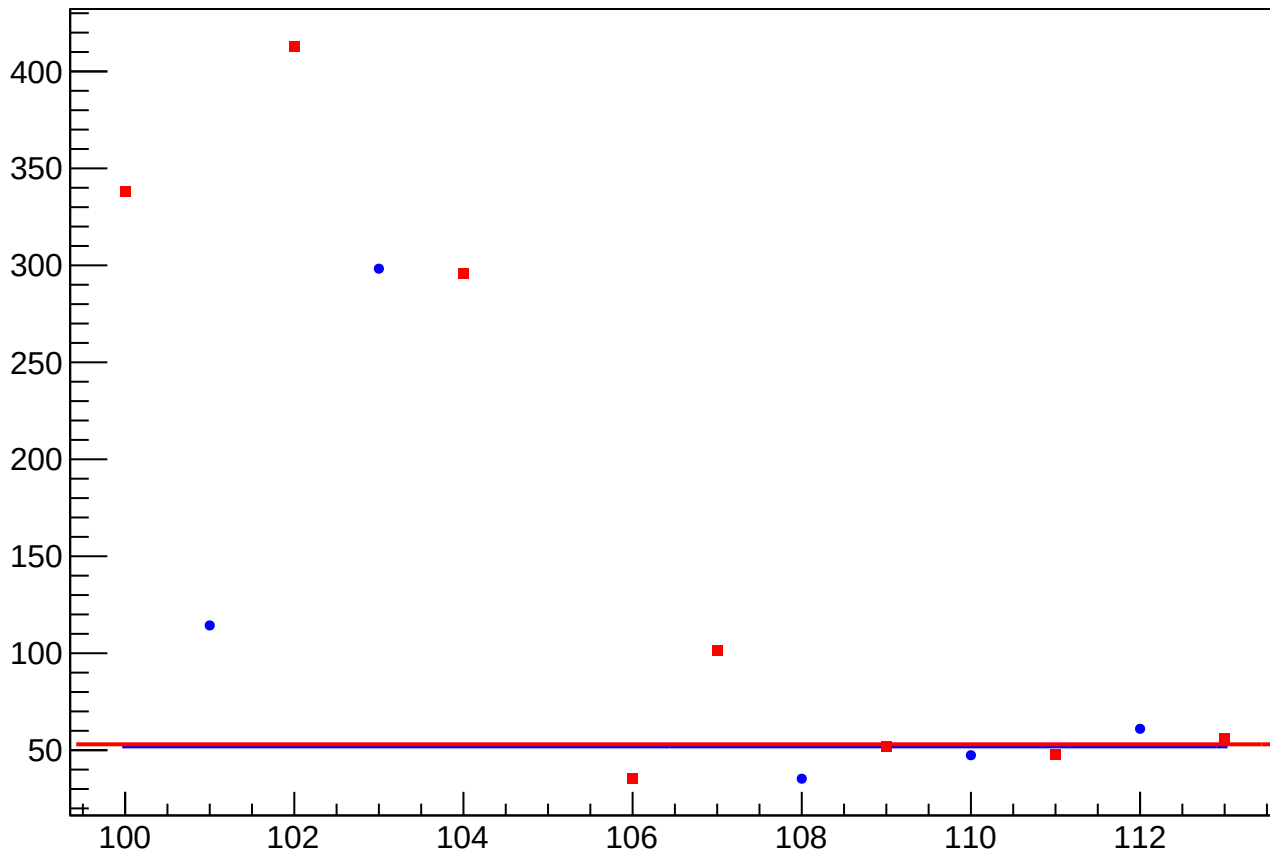
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.028  $\chi^2$ /NDF: 14.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 51.989+/-0.029  $\chi^2/\text{NDF}$ : 1317998.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.038+/-0.027  $\chi^2/\text{NDF}$ : 1565994.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

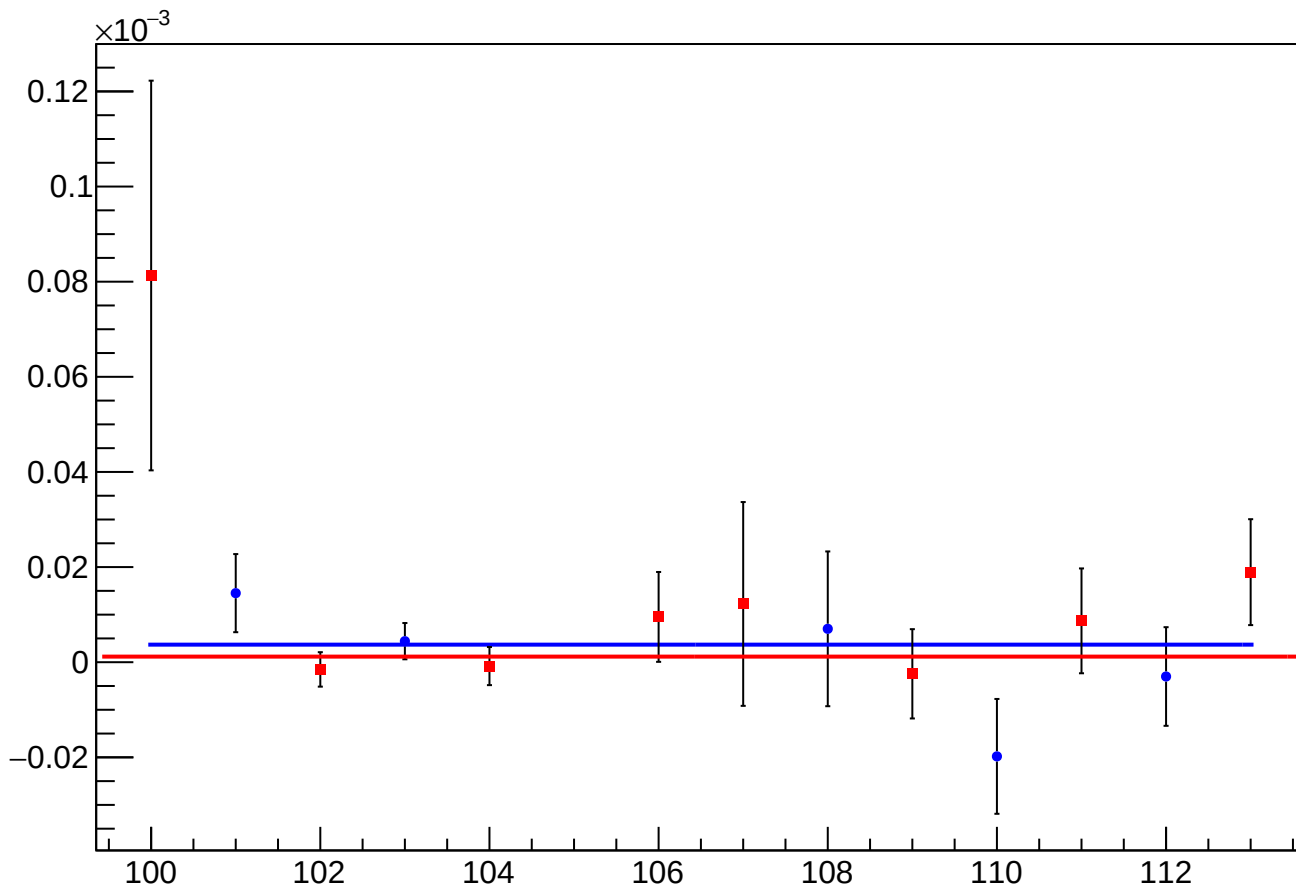
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52.534+/-0.020  $\chi^2/\text{NDF}$ : 2884693.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.8/7

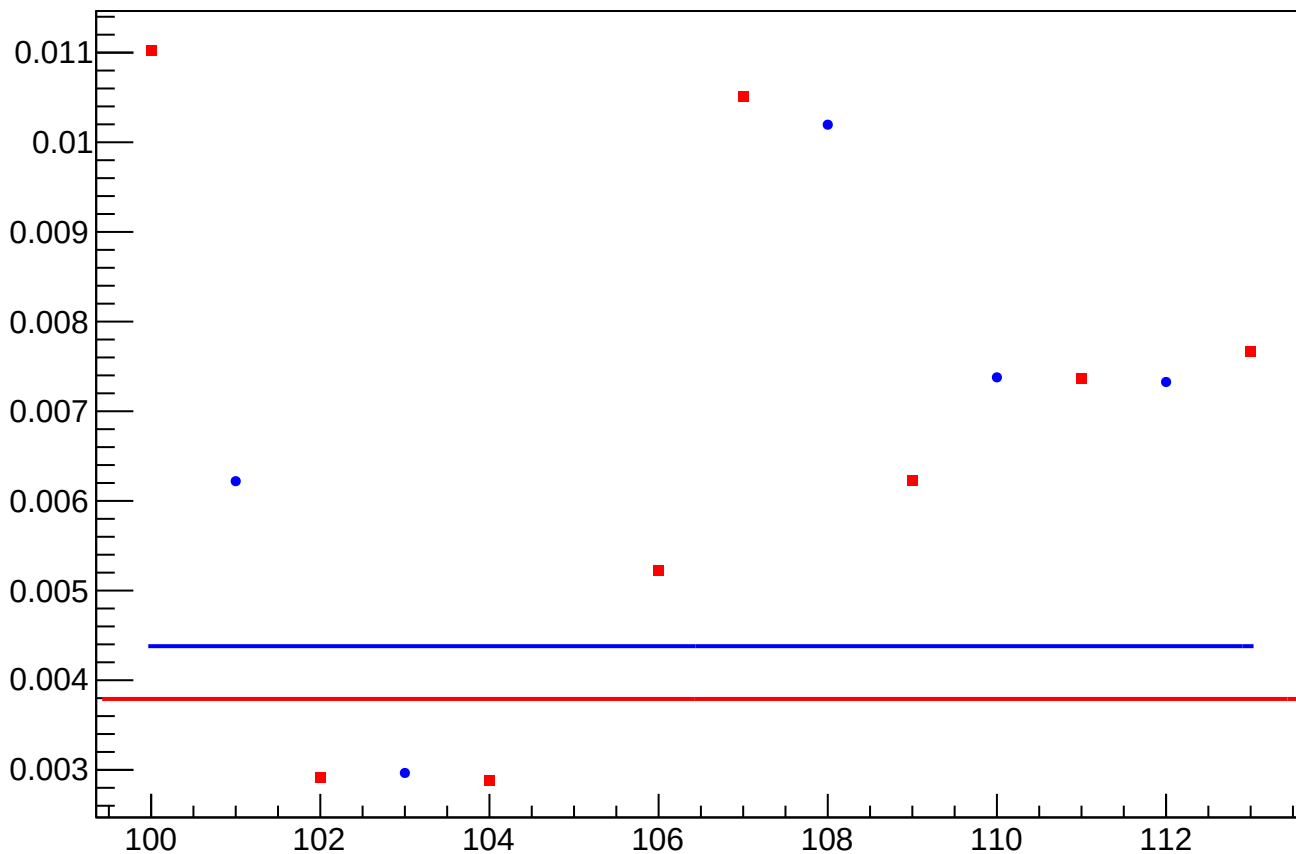
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 915963.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 1111424.0/7

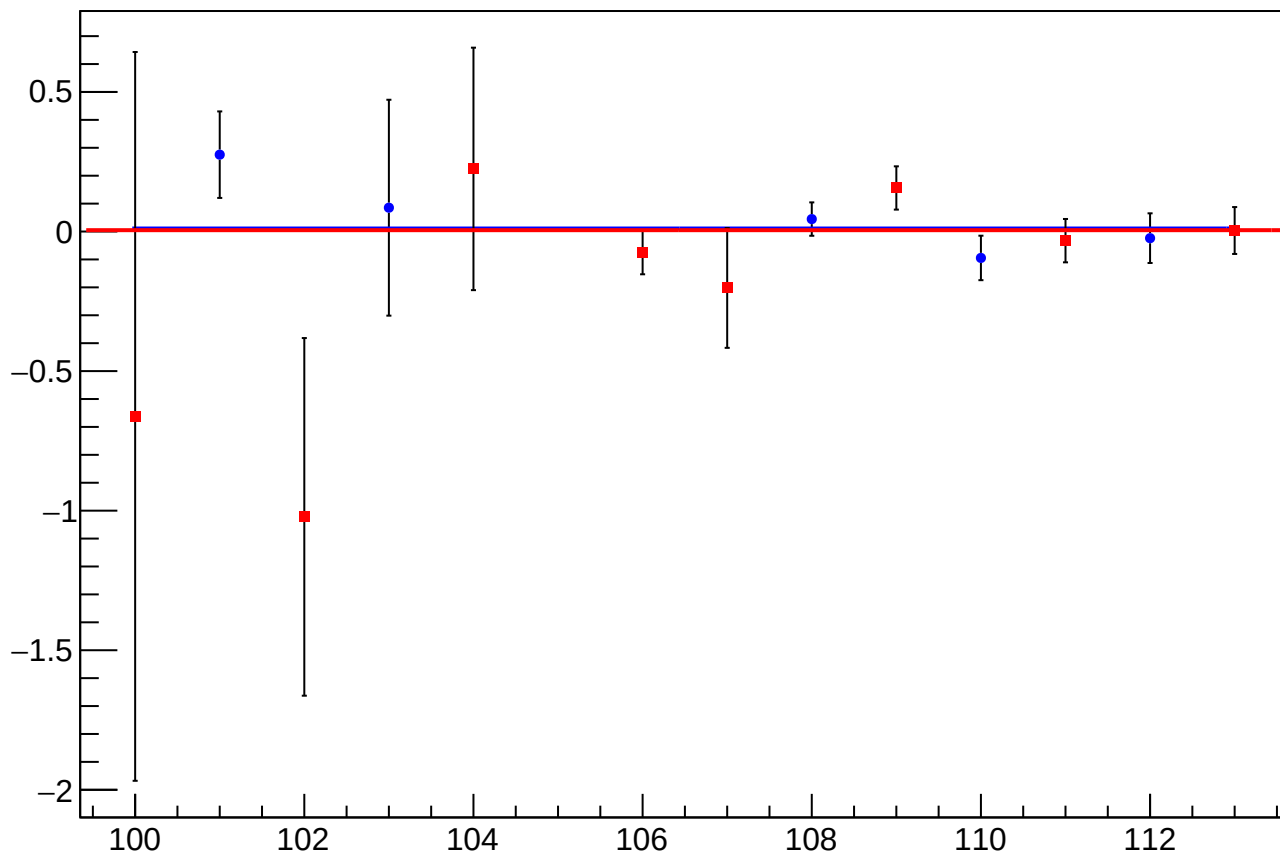
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 2072967.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.011 $\pm$ 0.040  $\chi^2$ /NDF: 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.039  $\chi^2$ /NDF: 9.0/7

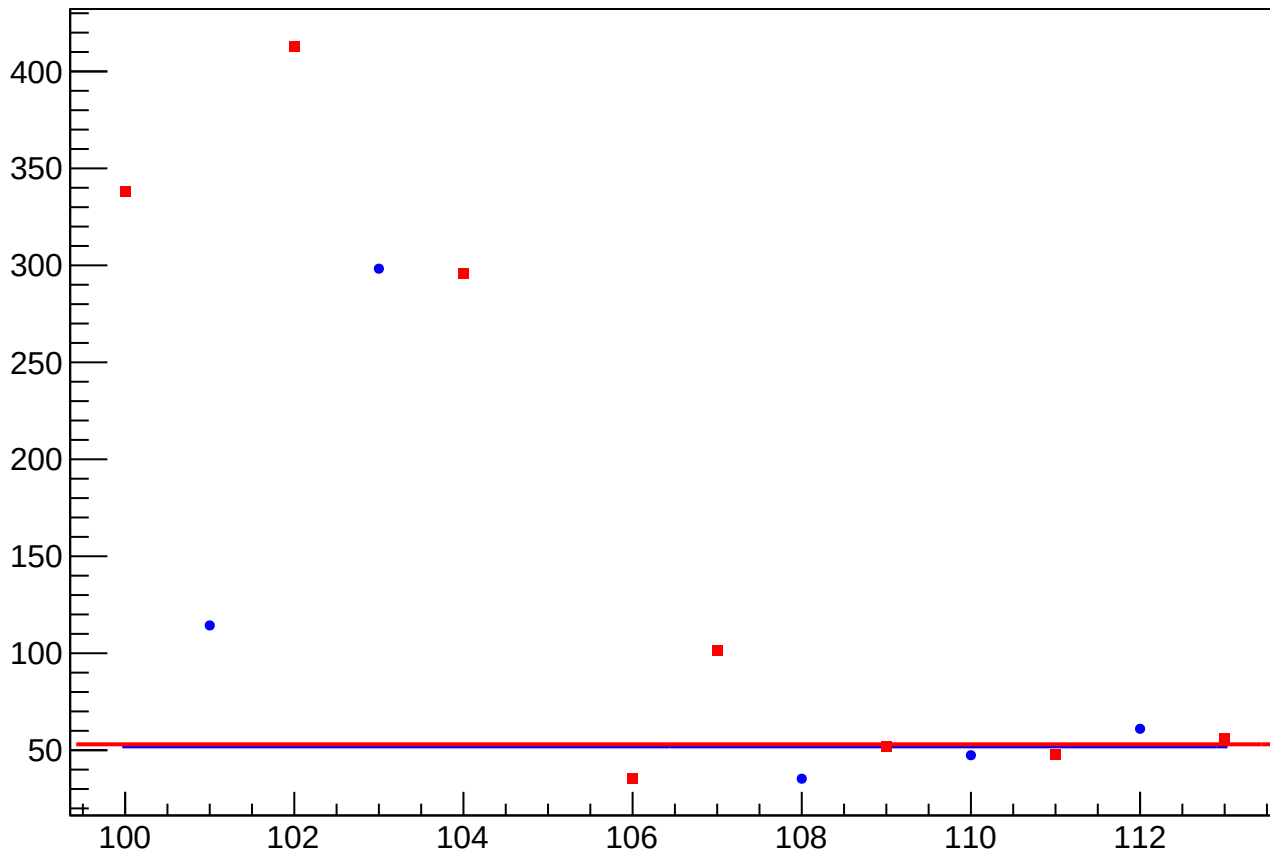
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.028  $\chi^2$ /NDF: 14.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 51.992 $\pm$ 0.029  $\chi^2$ /NDF: 1317921.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 53.039 $\pm$ 0.027  $\chi^2$ /NDF: 1565976.6/7

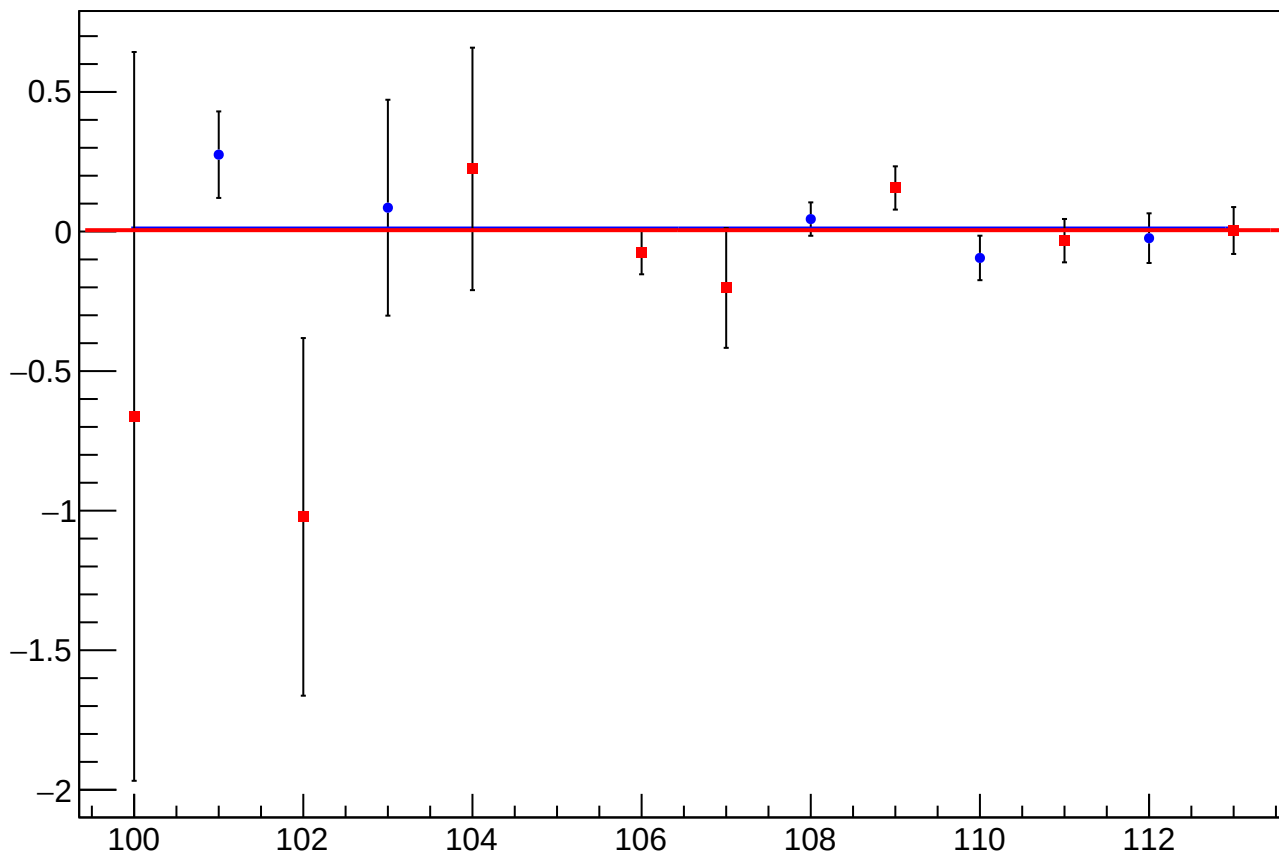
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 52.537 $\pm$ 0.020  $\chi^2$ /NDF: 2884595.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.011 $\pm$ 0.040  $\chi^2$ /NDF: 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.039  $\chi^2$ /NDF: 9.0/7

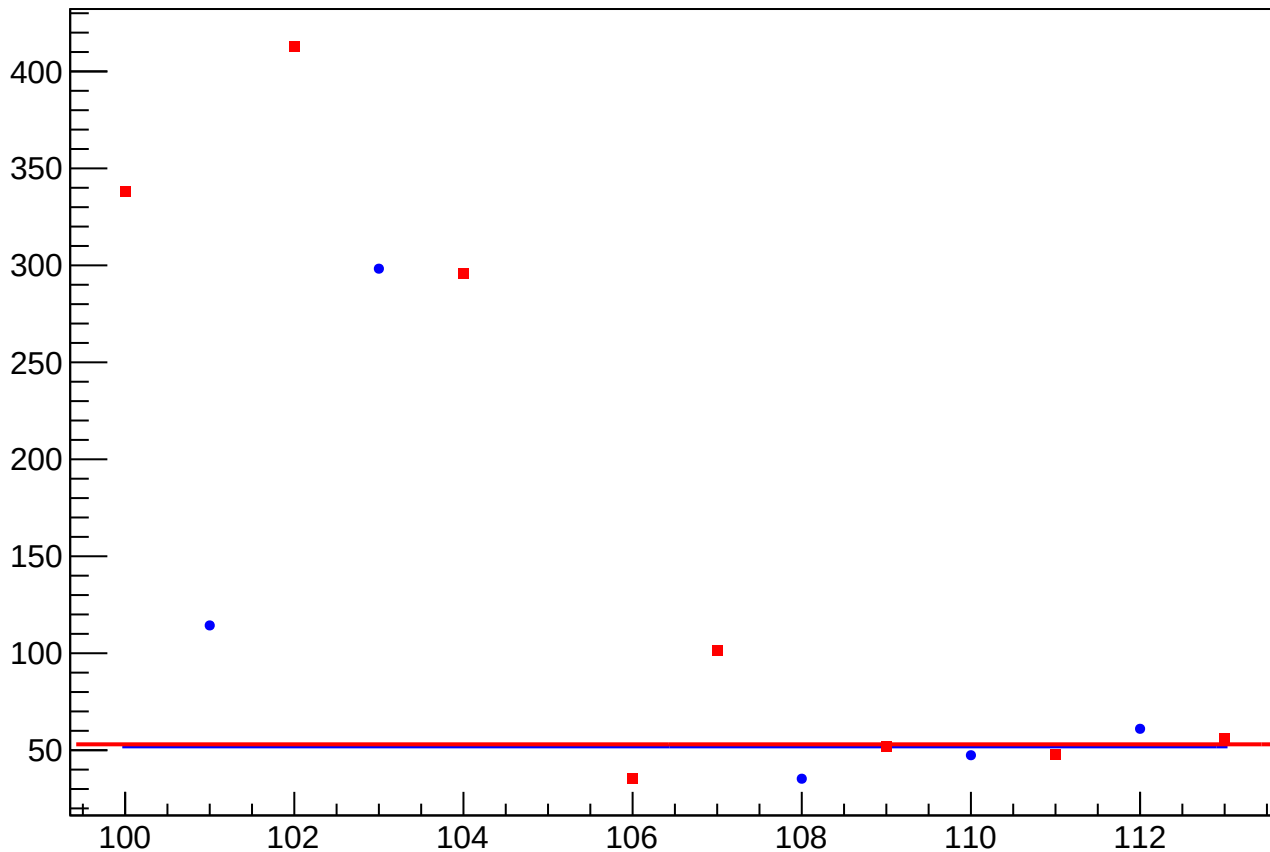
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.028  $\chi^2$ /NDF: 14.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 51.992 $\pm$ 0.029  $\chi^2$ /NDF: 1317921.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 53.039 $\pm$ 0.027  $\chi^2$ /NDF: 1565976.6/7

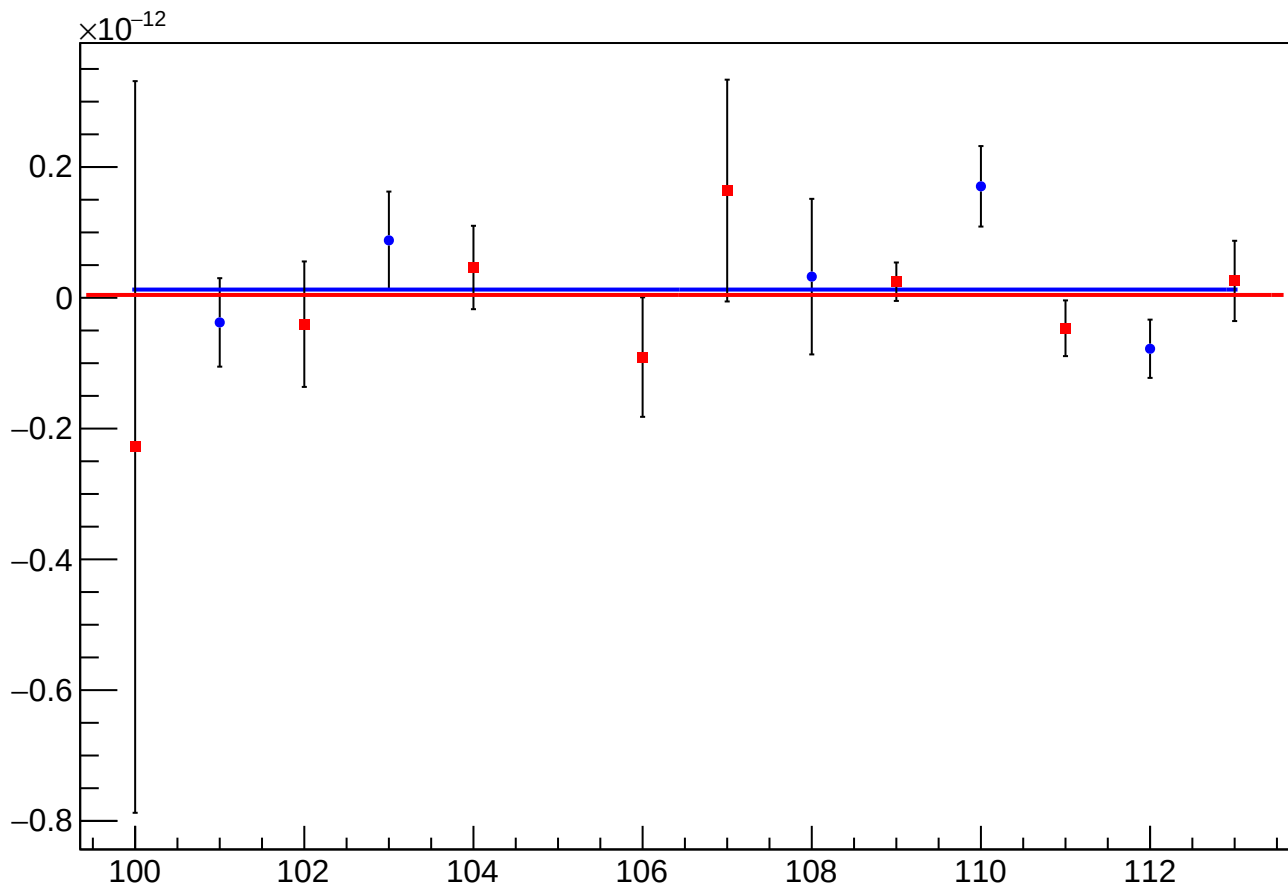
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 52.537 $\pm$ 0.020  $\chi^2$ /NDF: 2884595.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.8/7

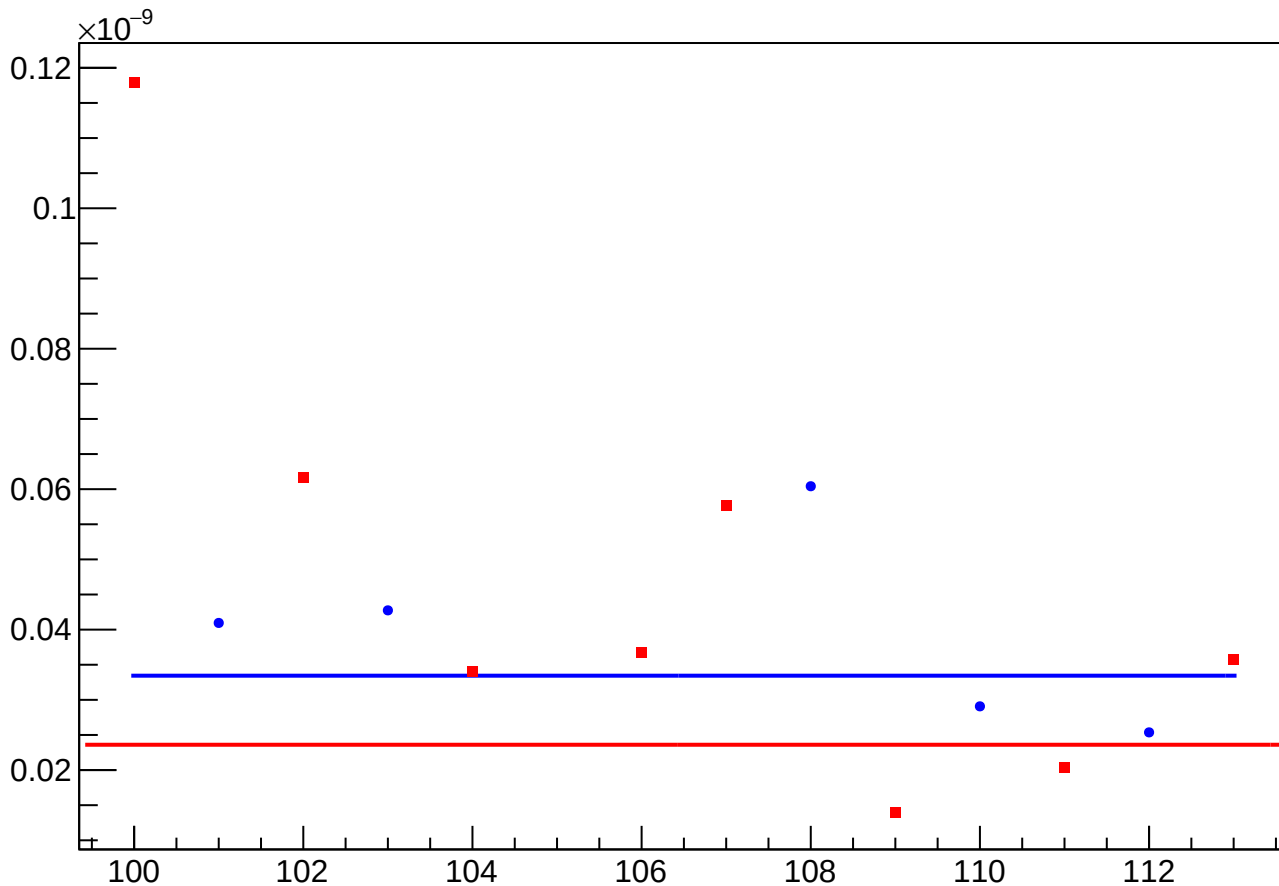
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 234364.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 852221.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

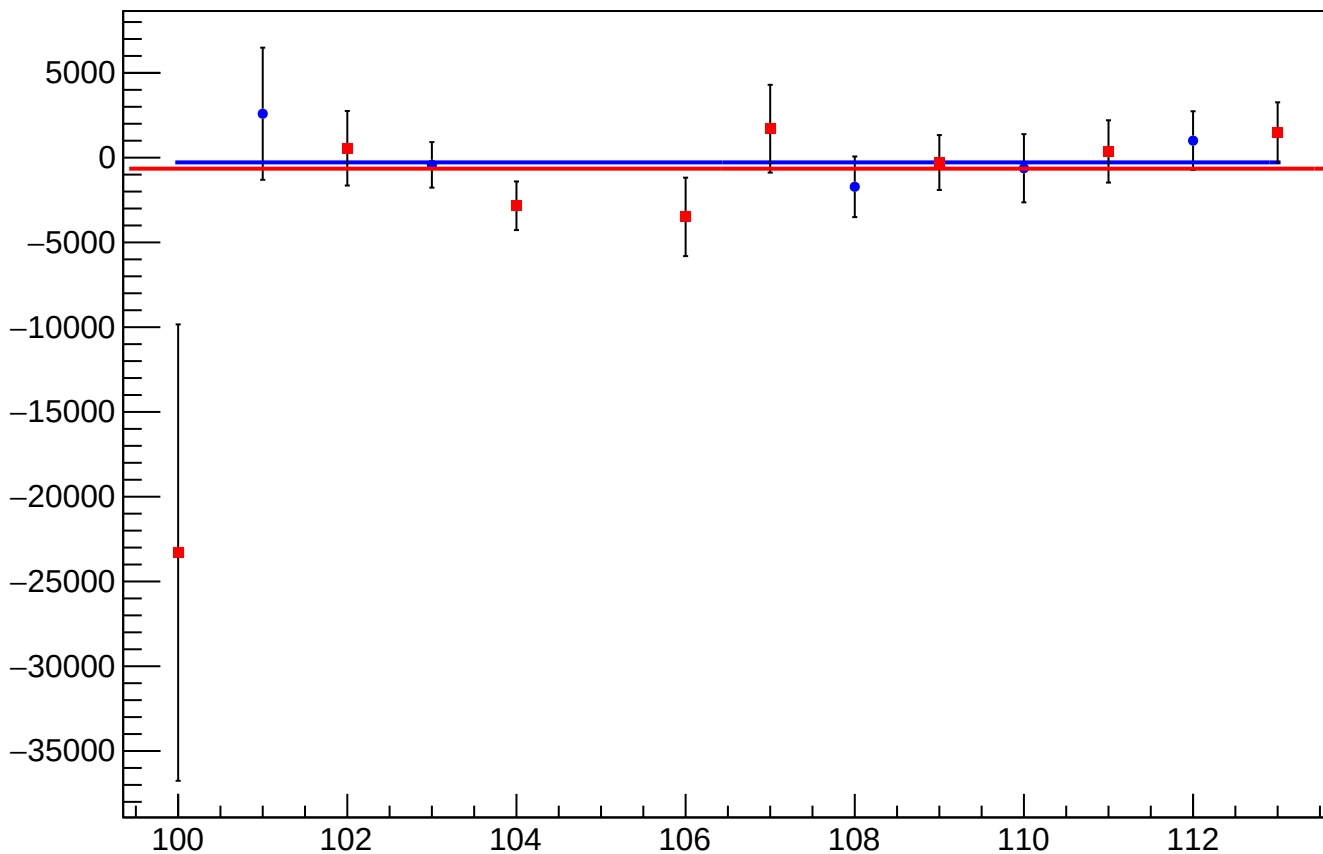
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1246365.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: -279.044+/-813.015  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -649.259+/-701.681  $\chi^2/\text{NDF}$ : 9.6/7

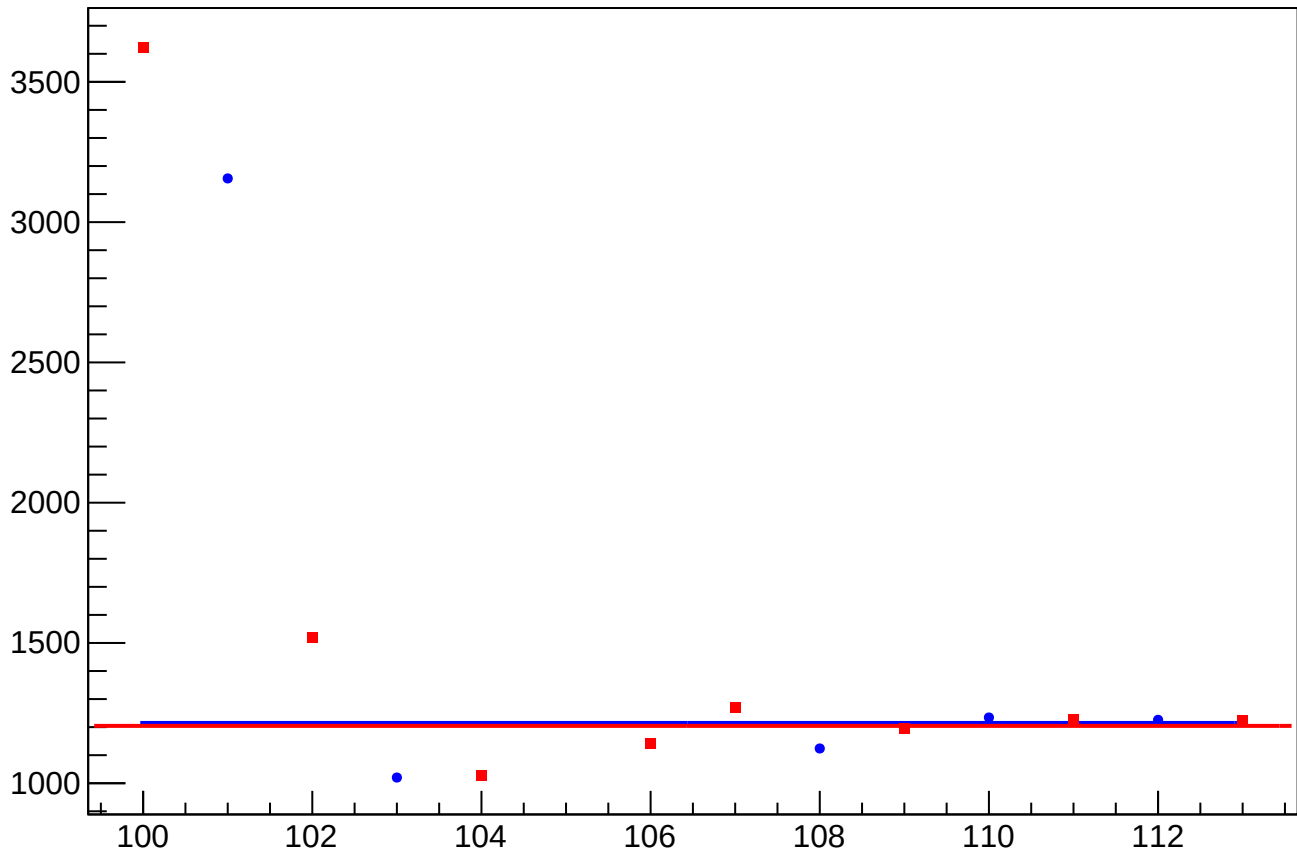
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -491.217+/-531.200  $\chi^2/\text{NDF}$ : 11.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1214.929+/-0.575  $\chi^2/\text{NDF}$ : 543498.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1204.426+/-0.496  $\chi^2/\text{NDF}$ : 139805.3/7

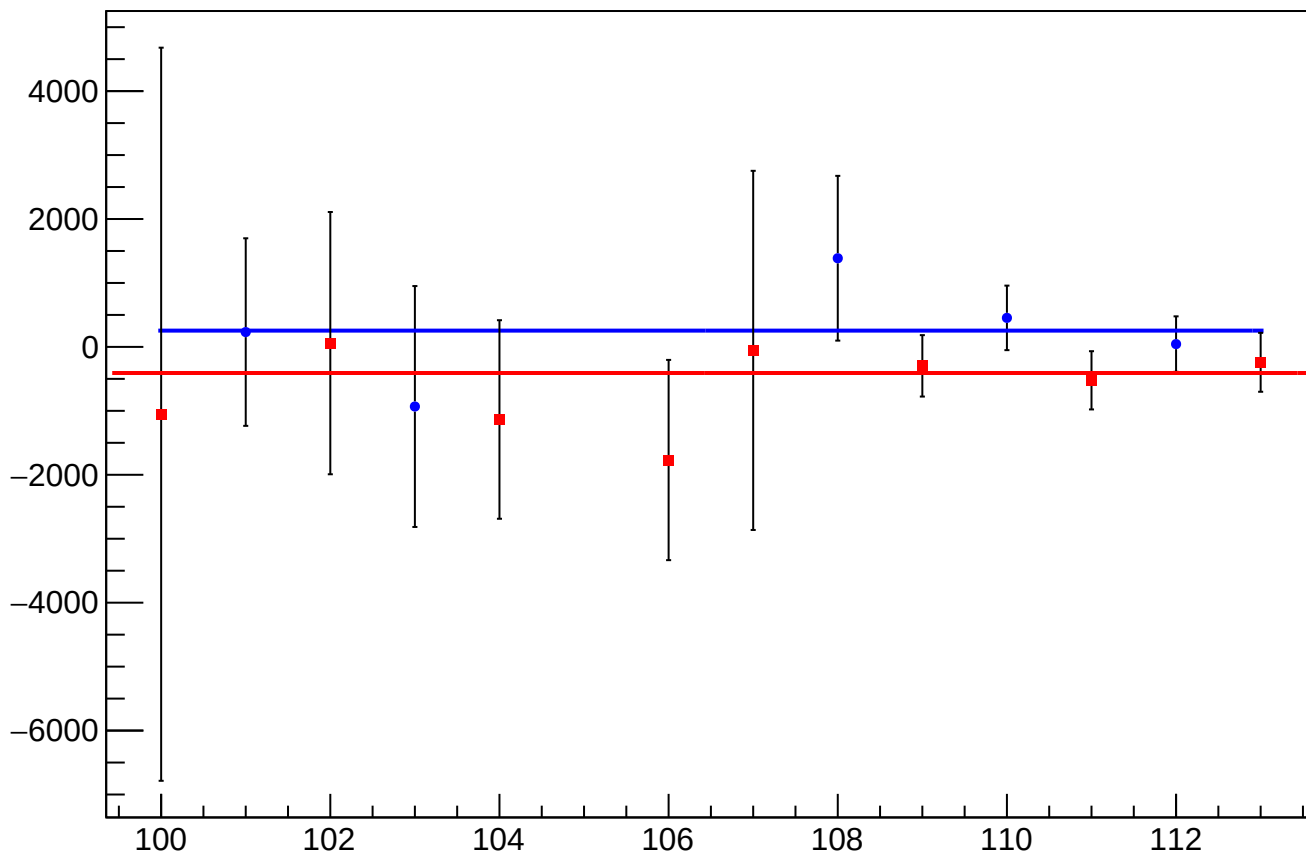
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1208.910+/-0.376  $\chi^2/\text{NDF}$ : 683495.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_reg\_correction\_mean vs Slug



Right In: 254.625 $\pm$ 307.216  $\chi^2$ /NDF: 1.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -408.175 $\pm$ 257.441  $\chi^2$ /NDF: 1.3/7

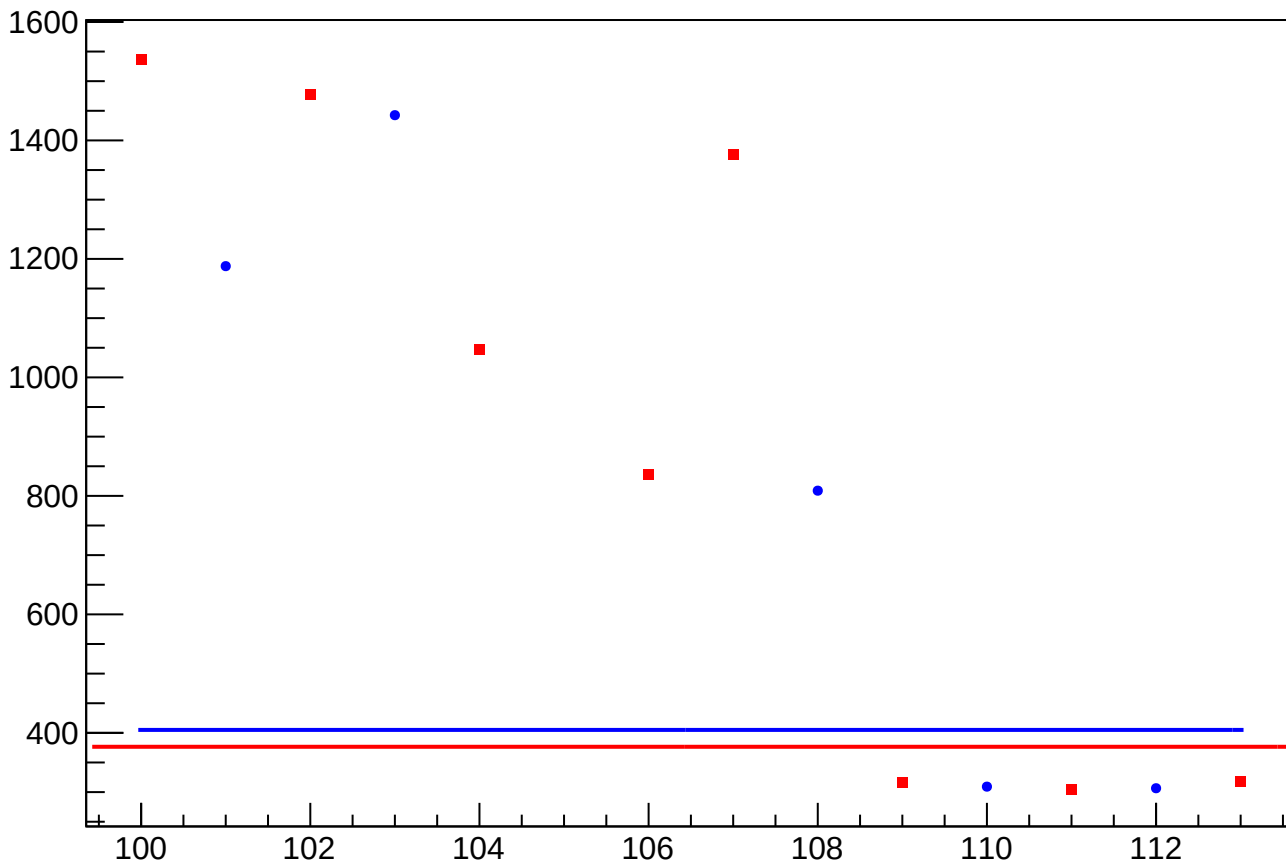
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -134.751 $\pm$ 197.320  $\chi^2$ /NDF: 5.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_reg\_correction\_rms vs Slug



Right In: 404.979+/-0.217  $\chi^2/\text{NDF}$ : 1548175.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 376.508+/-0.182  $\chi^2/\text{NDF}$ : 1573544.3/7

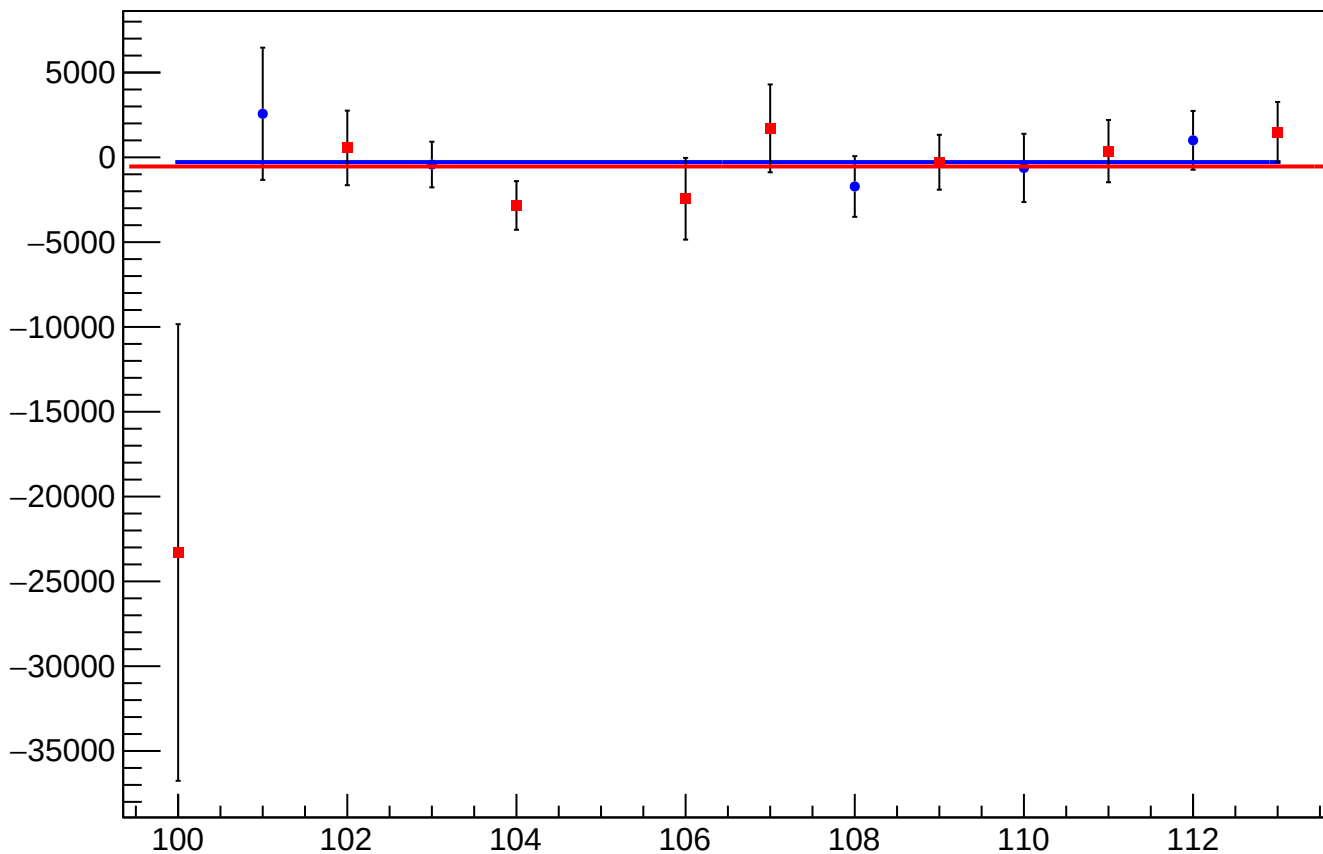
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 388.253+/-0.140  $\chi^2/\text{NDF}$ : 3131810.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: -280.155+/-813.016  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -539.099+/-704.183  $\chi^2$ /NDF: 8.6/7

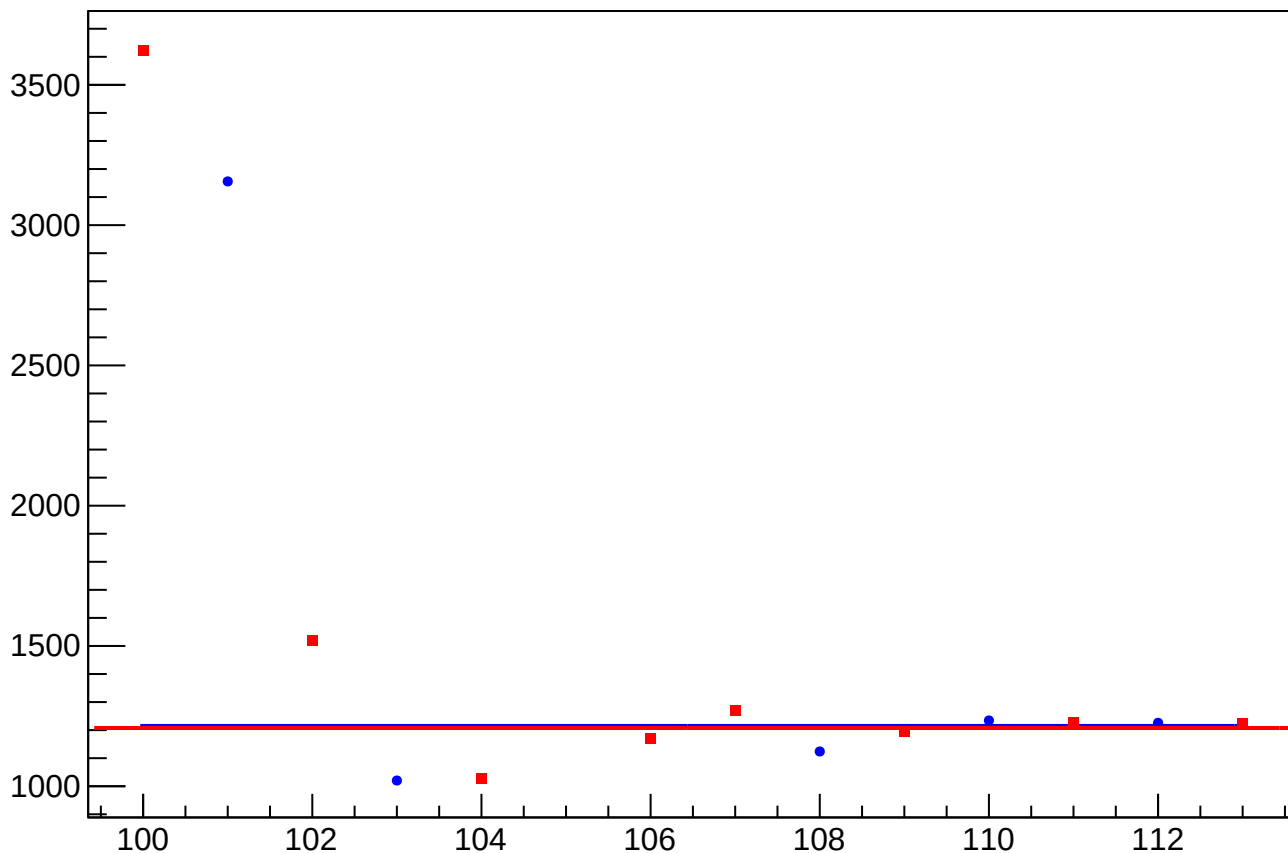
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -428.107+/-532.283  $\chi^2$ /NDF: 10.5/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1214.929+/-0.575  $\chi^2/\text{NDF}$ : 543500.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1207.563+/-0.498  $\chi^2/\text{NDF}$ : 138602.4/7

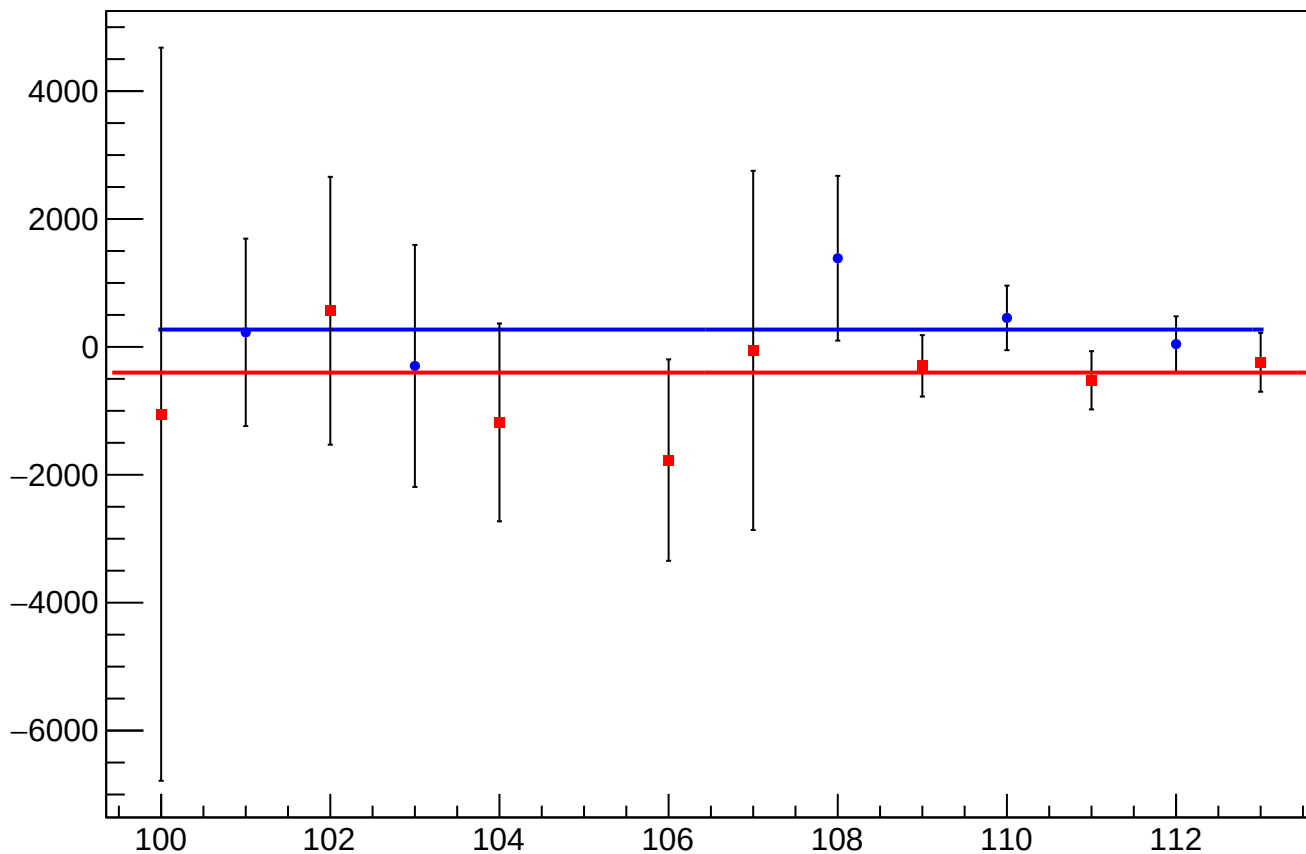
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1210.720+/-0.376  $\chi^2/\text{NDF}$ : 682196.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_cor\_correction\_mean vs Slug



Right In: 271.052 $\pm$ 307.233  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -401.717 $\pm$ 257.546  $\chi^2$ /NDF: 1.5/7

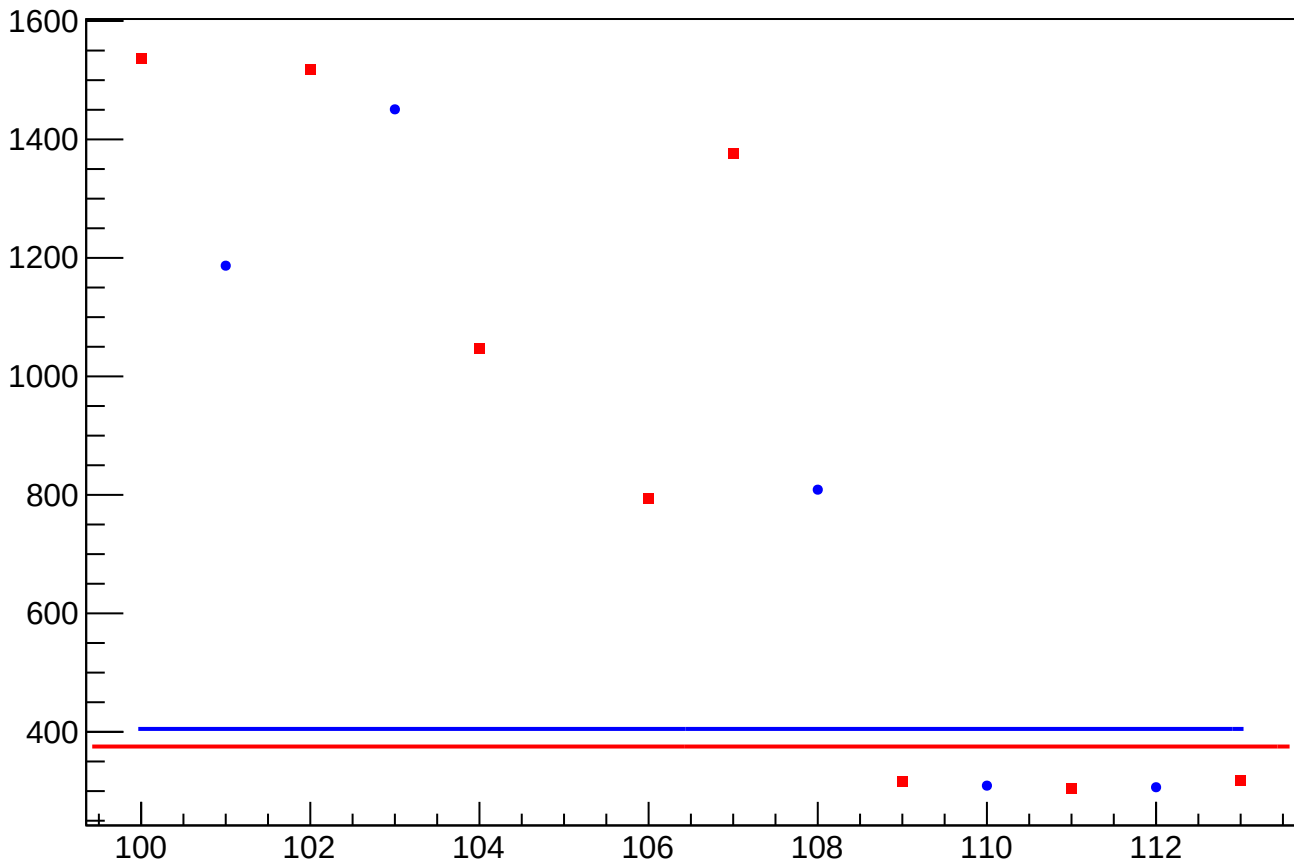
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -124.066 $\pm$ 197.372  $\chi^2$ /NDF: 5.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_cor\_correction\_rms vs Slug



Right In: 404.948+/-0.217  $\chi^2/\text{NDF}$ : 1551865.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 375.236+/-0.182  $\chi^2/\text{NDF}$ : 1560878.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

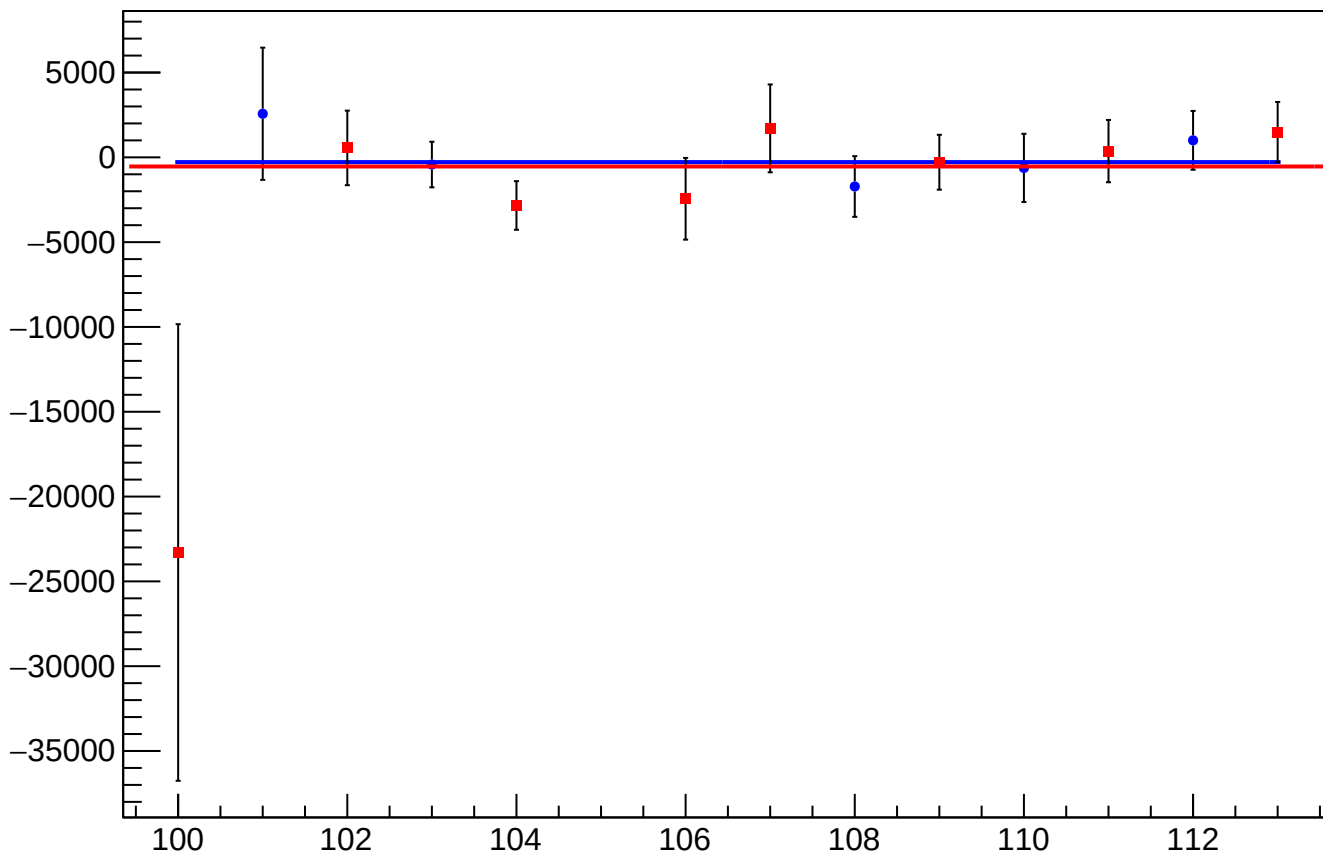
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 387.498+/-0.140  $\chi^2/\text{NDF}$ : 3123728.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: -280.155+/-813.016  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -539.099+/-704.183  $\chi^2$ /NDF: 8.6/7

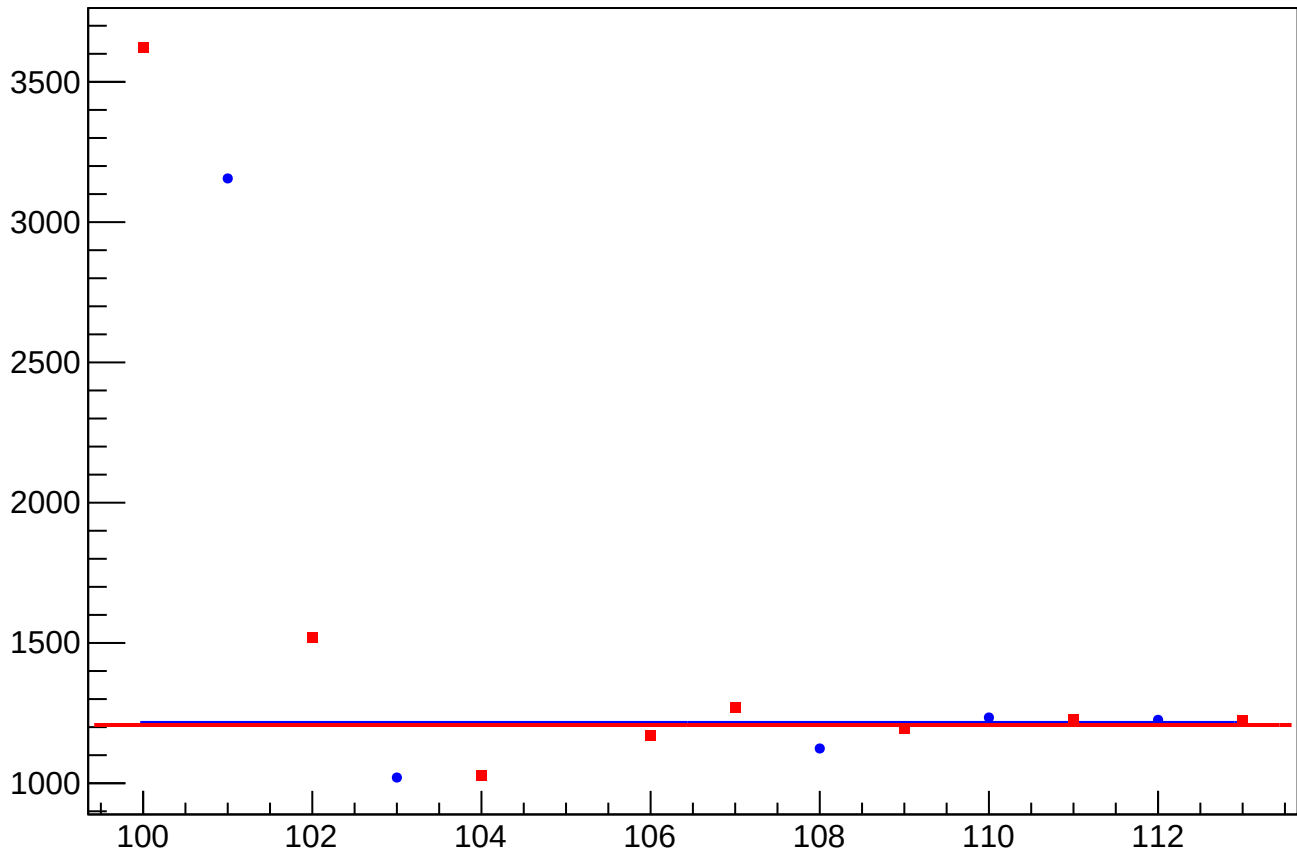
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -428.107+/-532.283  $\chi^2$ /NDF: 10.5/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1214.929+/-0.575  $\chi^2/\text{NDF}$ : 543500.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1207.563+/-0.498  $\chi^2/\text{NDF}$ : 138602.4/7

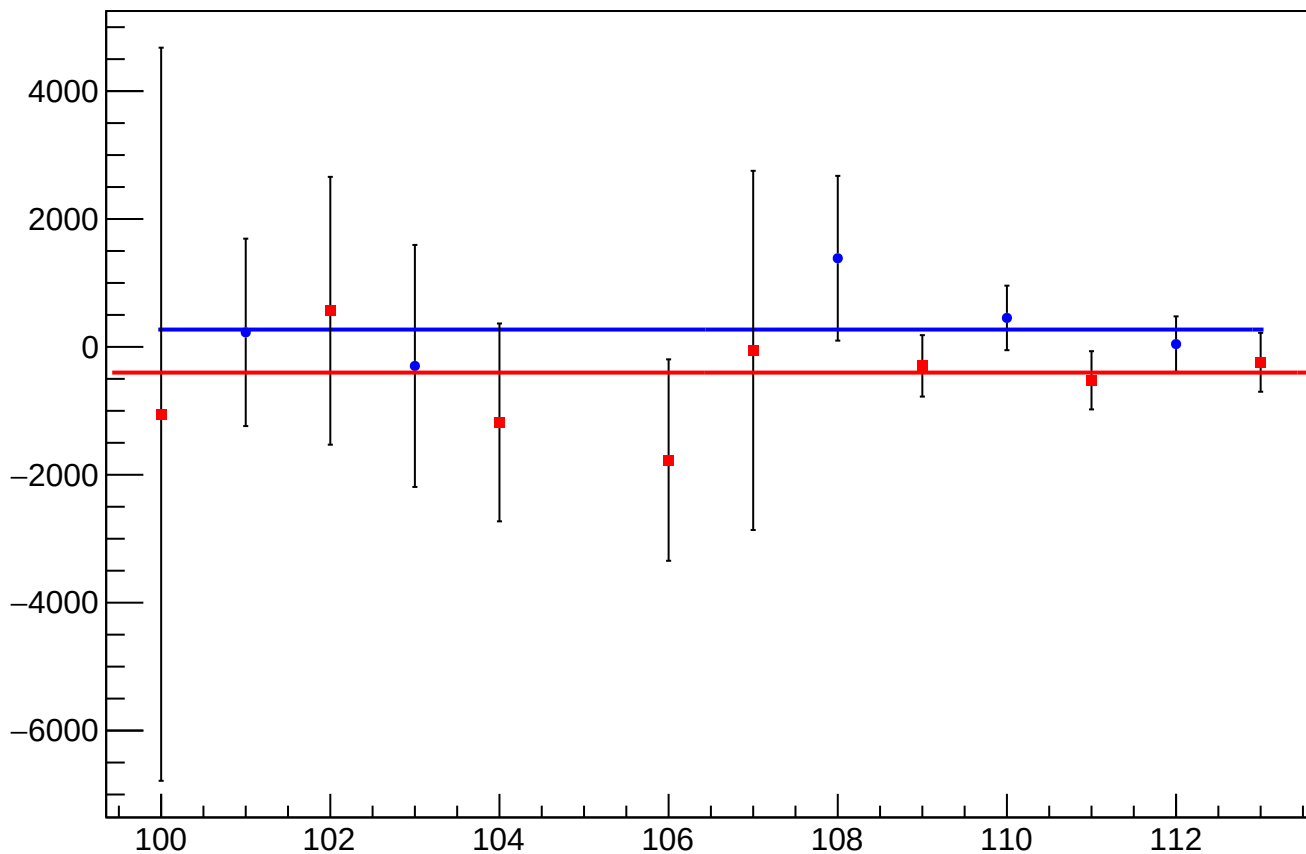
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1210.720+/-0.376  $\chi^2/\text{NDF}$ : 682196.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 271.052+/-307.233  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -401.717+/-257.546  $\chi^2/\text{NDF}$ : 1.5/7

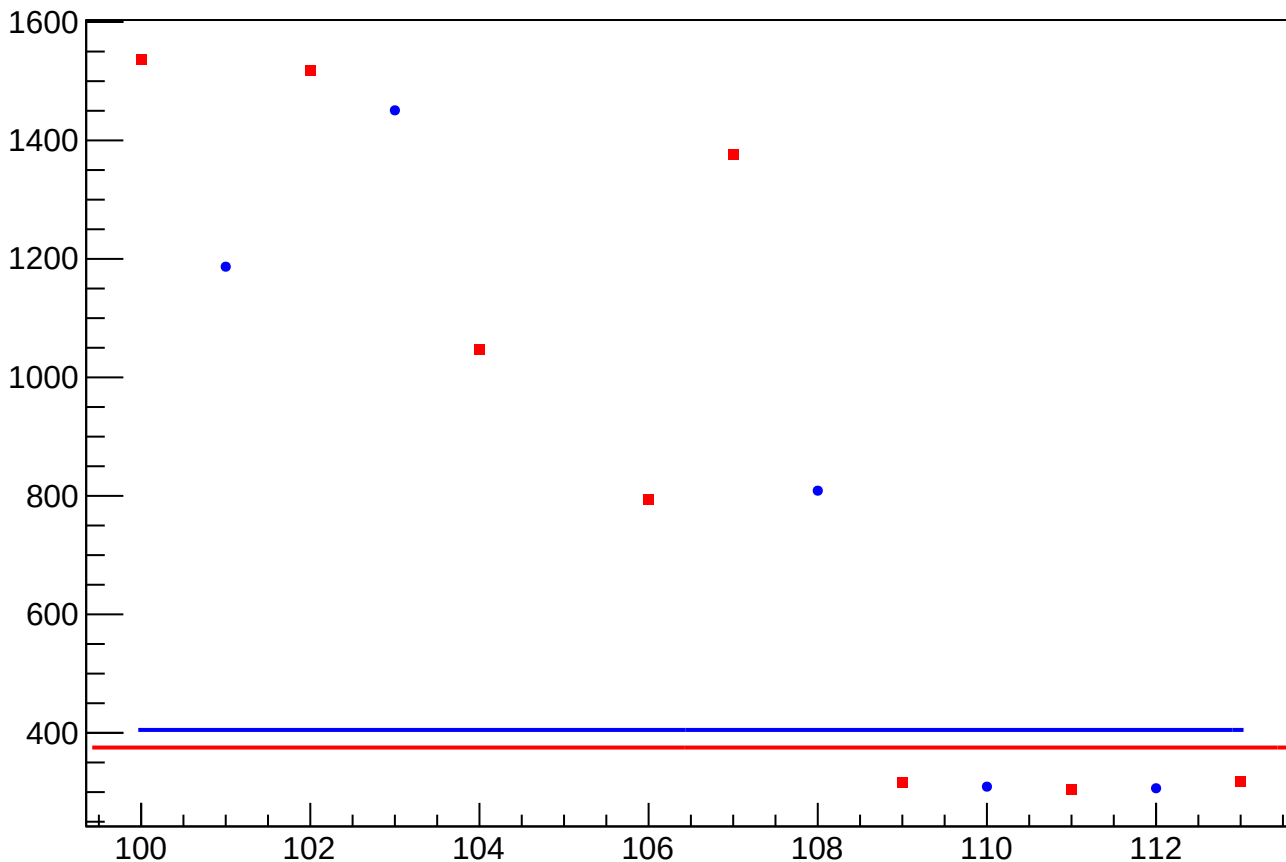
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -124.066+/-197.372  $\chi^2/\text{NDF}$ : 5.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 404.948+/-0.217  $\chi^2/\text{NDF}$ : 1551865.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 375.236+/-0.182  $\chi^2/\text{NDF}$ : 1560878.2/7

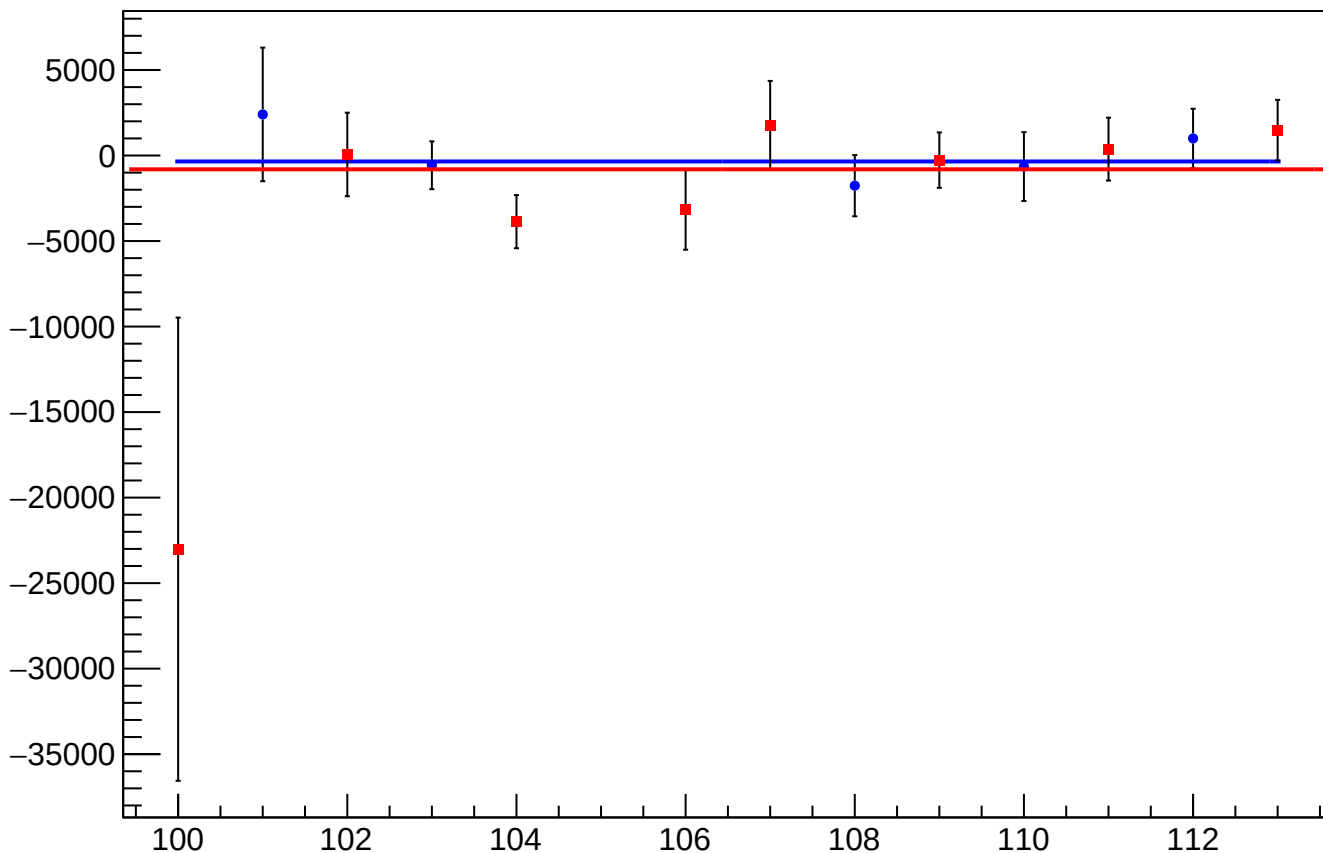
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 387.498+/-0.140  $\chi^2/\text{NDF}$ : 3123728.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: -348.104+/-824.945  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -806.484+/-723.486  $\chi^2/\text{NDF}$ : 10.9/7

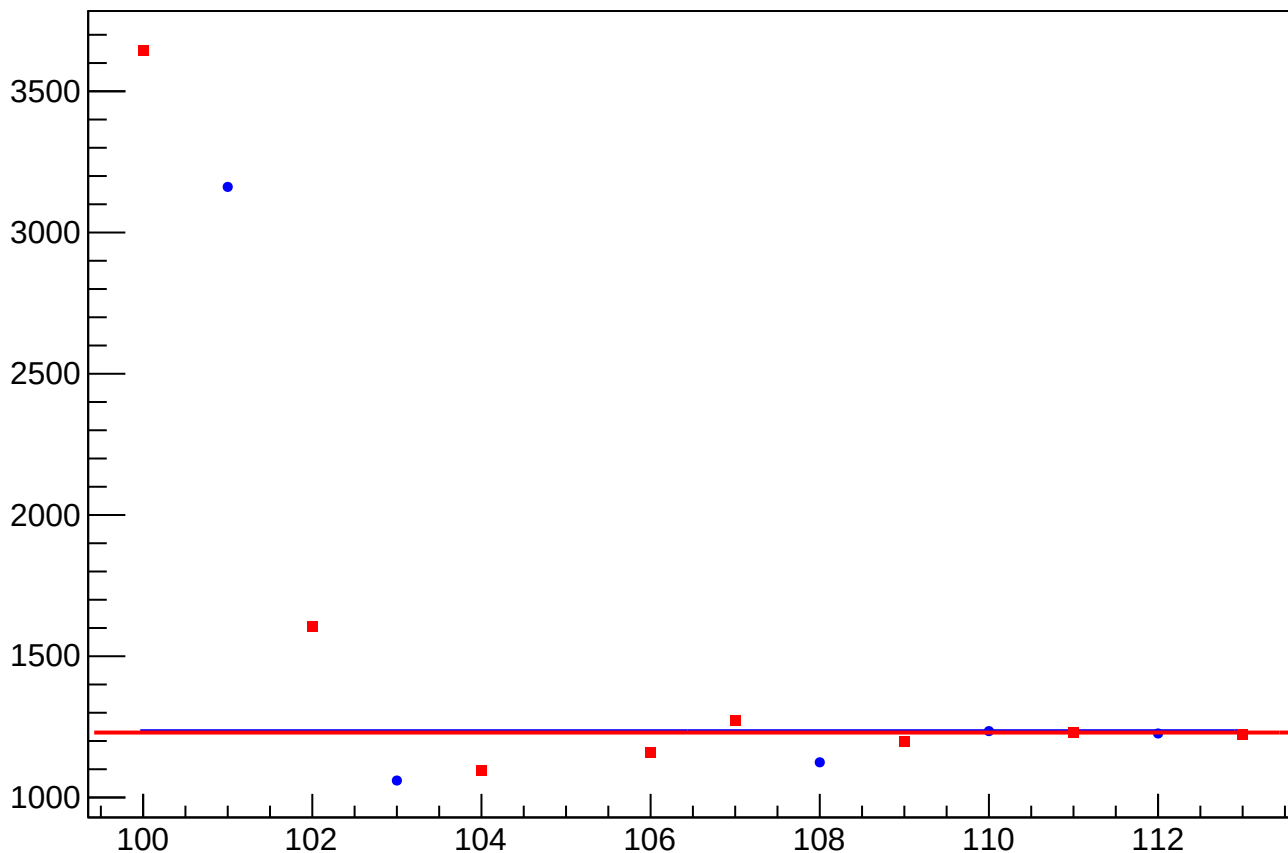
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -607.200+/-543.936  $\chi^2/\text{NDF}$ : 12.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1234.690 $\pm$ 0.583  $\chi^2$ /NDF: 525994.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1229.888 $\pm$ 0.512  $\chi^2$ /NDF: 129232.1/7

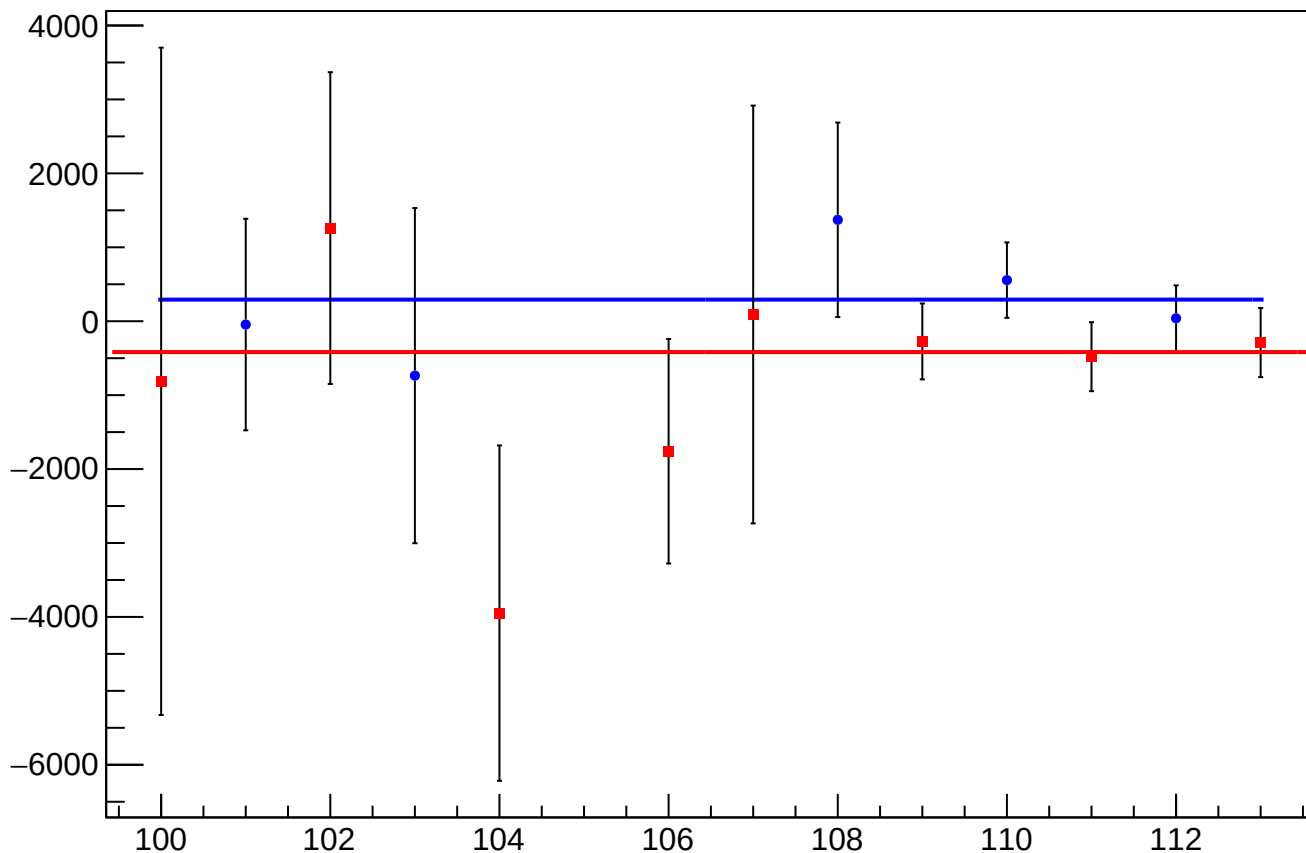
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1231.976 $\pm$ 0.385  $\chi^2$ /NDF: 655265.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_dit\_correction\_mean vs Slug



Right In: 292.356+/-313.993  $\chi^2/\text{NDF}$ : 1.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -417.174+/-267.339  $\chi^2/\text{NDF}$ : 4.0/7

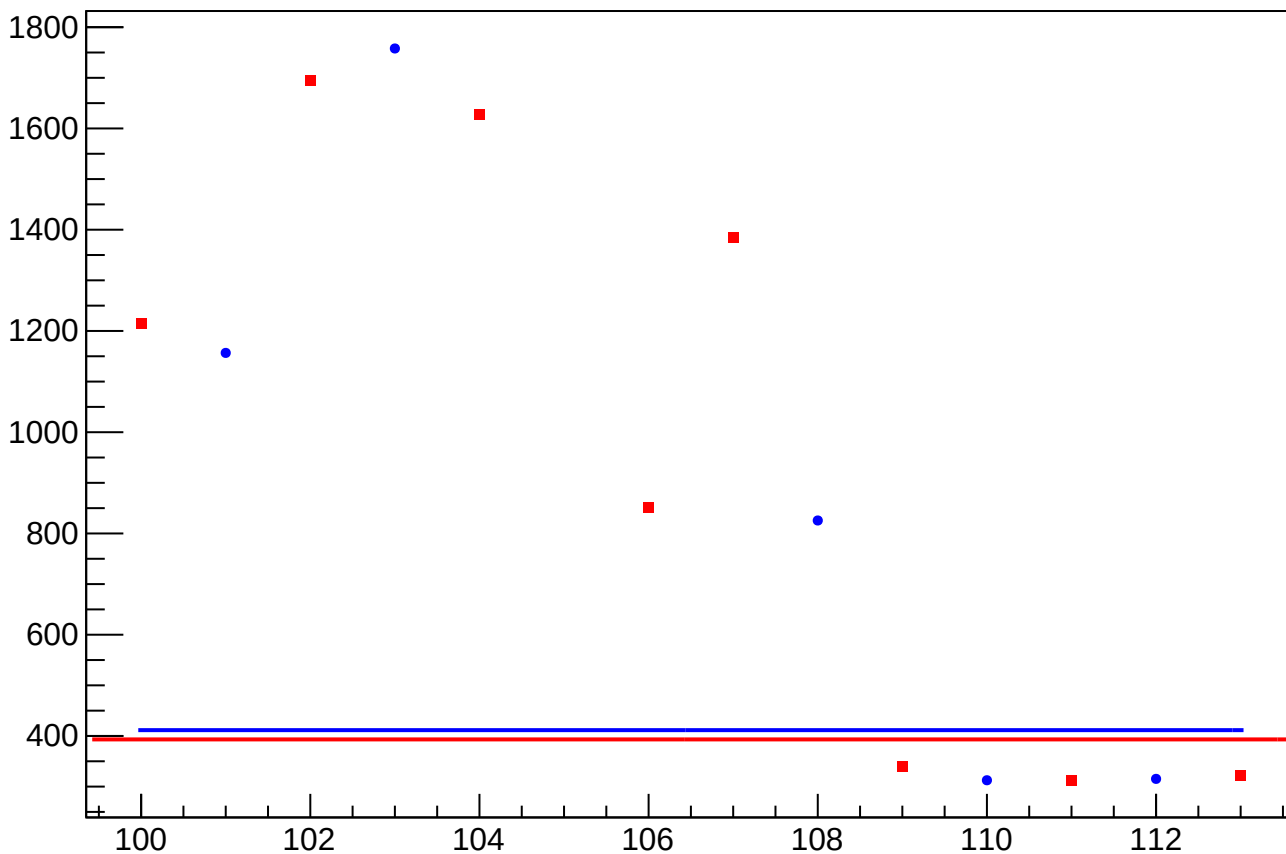
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -118.986+/-203.554  $\chi^2/\text{NDF}$ : 8.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_dit\_correction\_rms vs Slug



Right In: 411.514+/-0.222  $\chi^2/\text{NDF}$ : 1614945.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 393.200+/-0.189  $\chi^2/\text{NDF}$ : 1977851.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

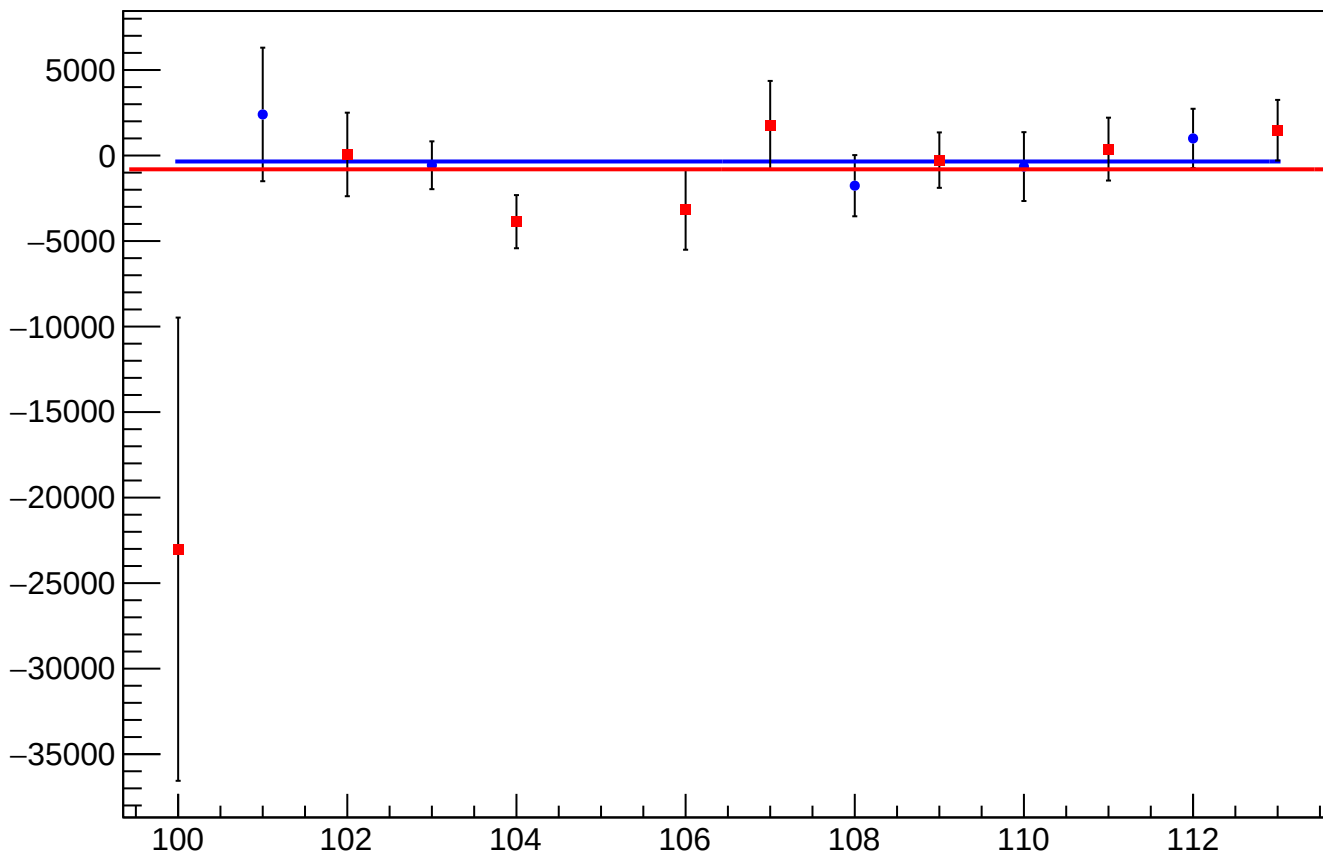
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 400.897+/-0.144  $\chi^2/\text{NDF}$ : 3596741.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: -348.107+/-824.945  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -806.482+/-723.486  $\chi^2$ /NDF: 10.9/7

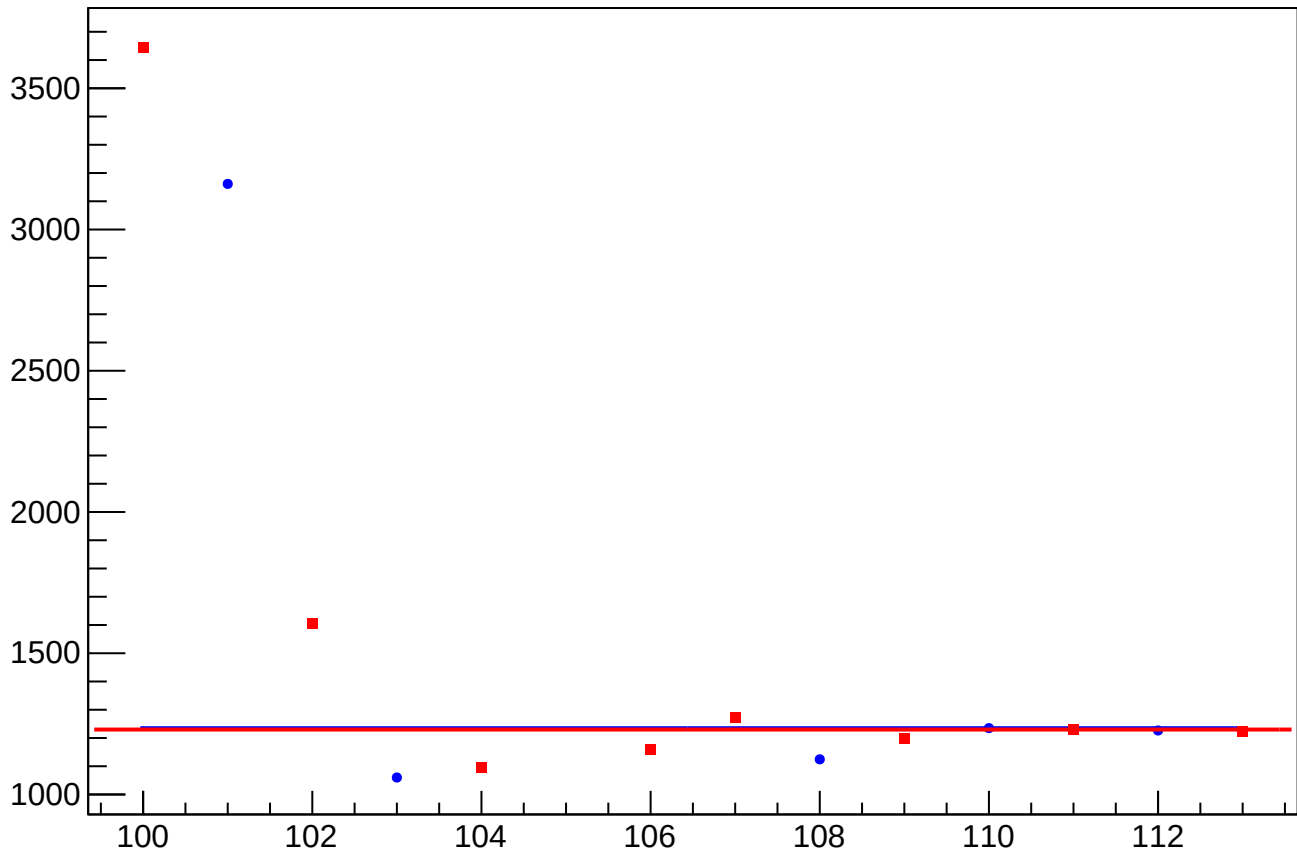
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -607.201+/-543.936  $\chi^2$ /NDF: 12.8/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1234.691+/-0.583  $\chi^2/\text{NDF}$ : 525994.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1229.888+/-0.512  $\chi^2/\text{NDF}$ : 129232.1/7

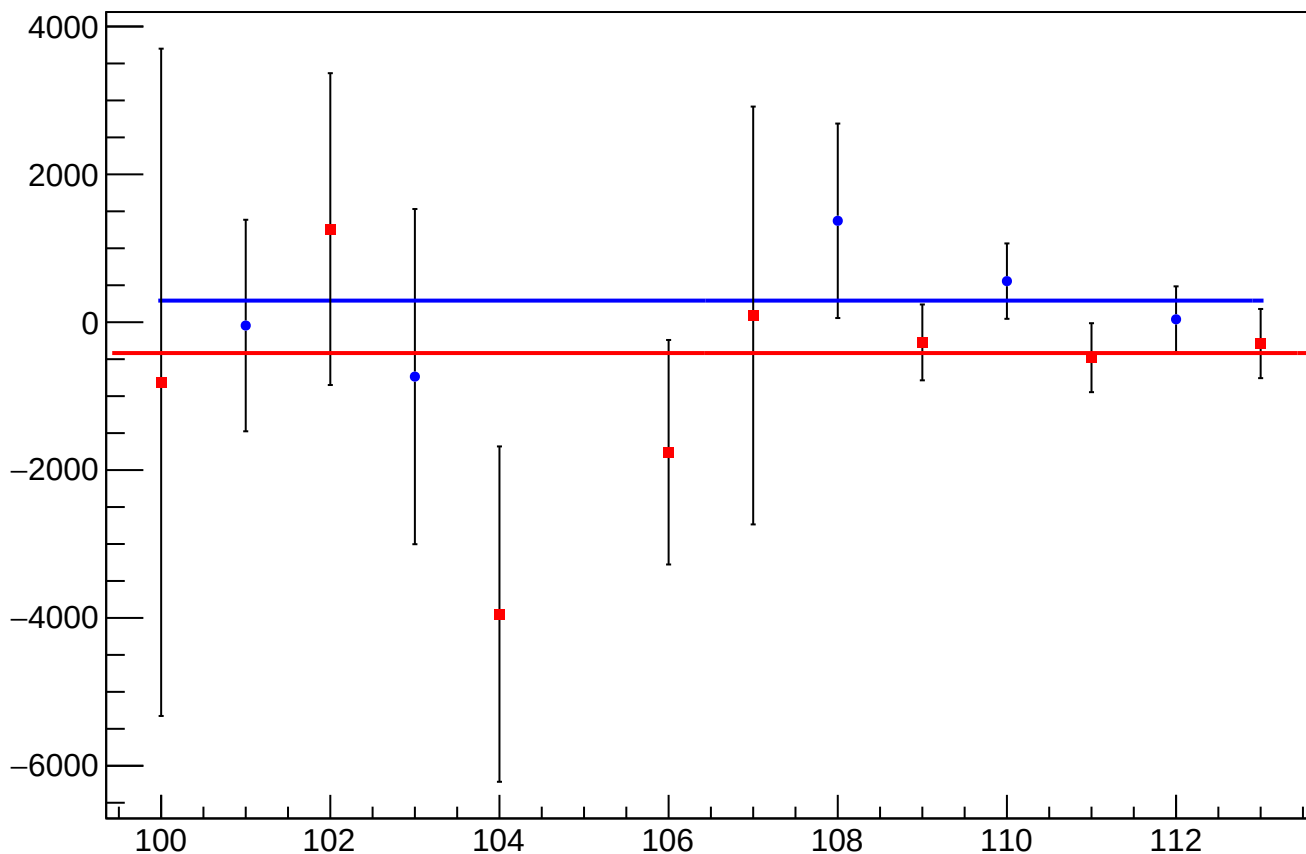
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1231.976+/-0.385  $\chi^2/\text{NDF}$ : 655265.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 292.348+/-313.991  $\chi^2/\text{NDF}$ : 1.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -417.169+/-267.337  $\chi^2/\text{NDF}$ : 4.0/7

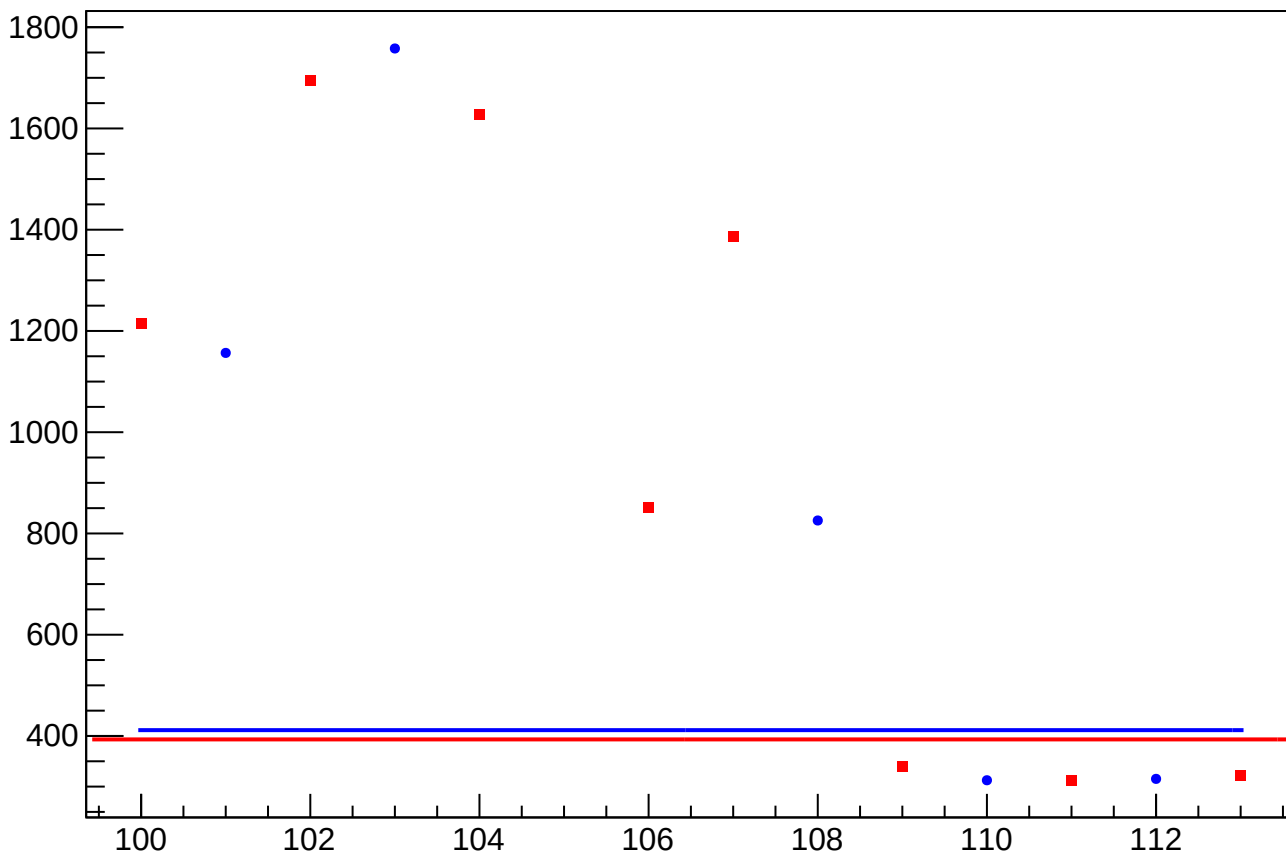
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -118.988+/-203.552  $\chi^2/\text{NDF}$ : 8.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 411.512+/-0.222  $\chi^2/\text{NDF}$ : 1614953.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 393.196+/-0.189  $\chi^2/\text{NDF}$ : 1977868.4/7

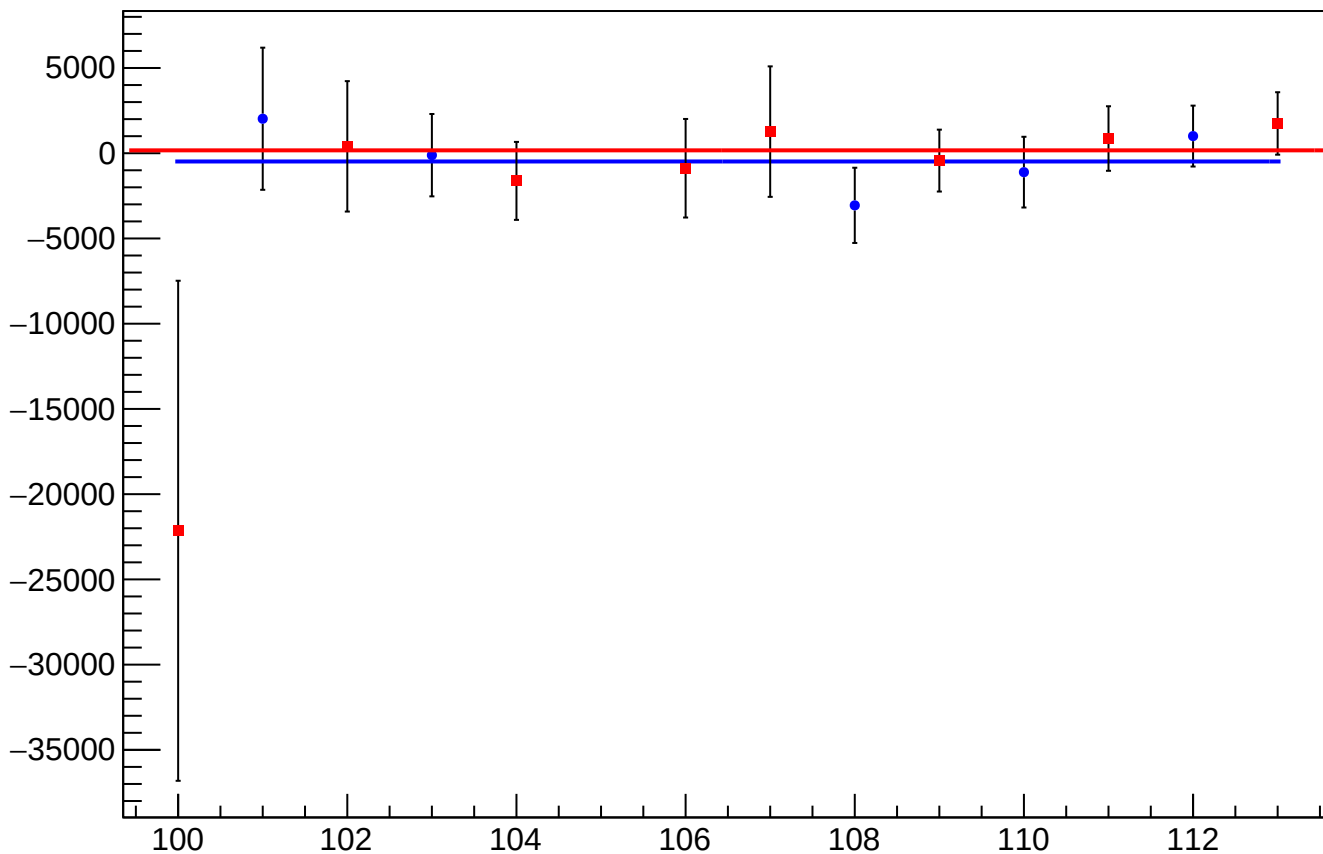
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 400.893+/-0.144  $\chi^2/\text{NDF}$ : 3596766.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: -483.624+/-1010.139  $\chi^2/\text{NDF}$ : 2.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 169.044+/-866.300  $\chi^2/\text{NDF}$ : 4.1/7

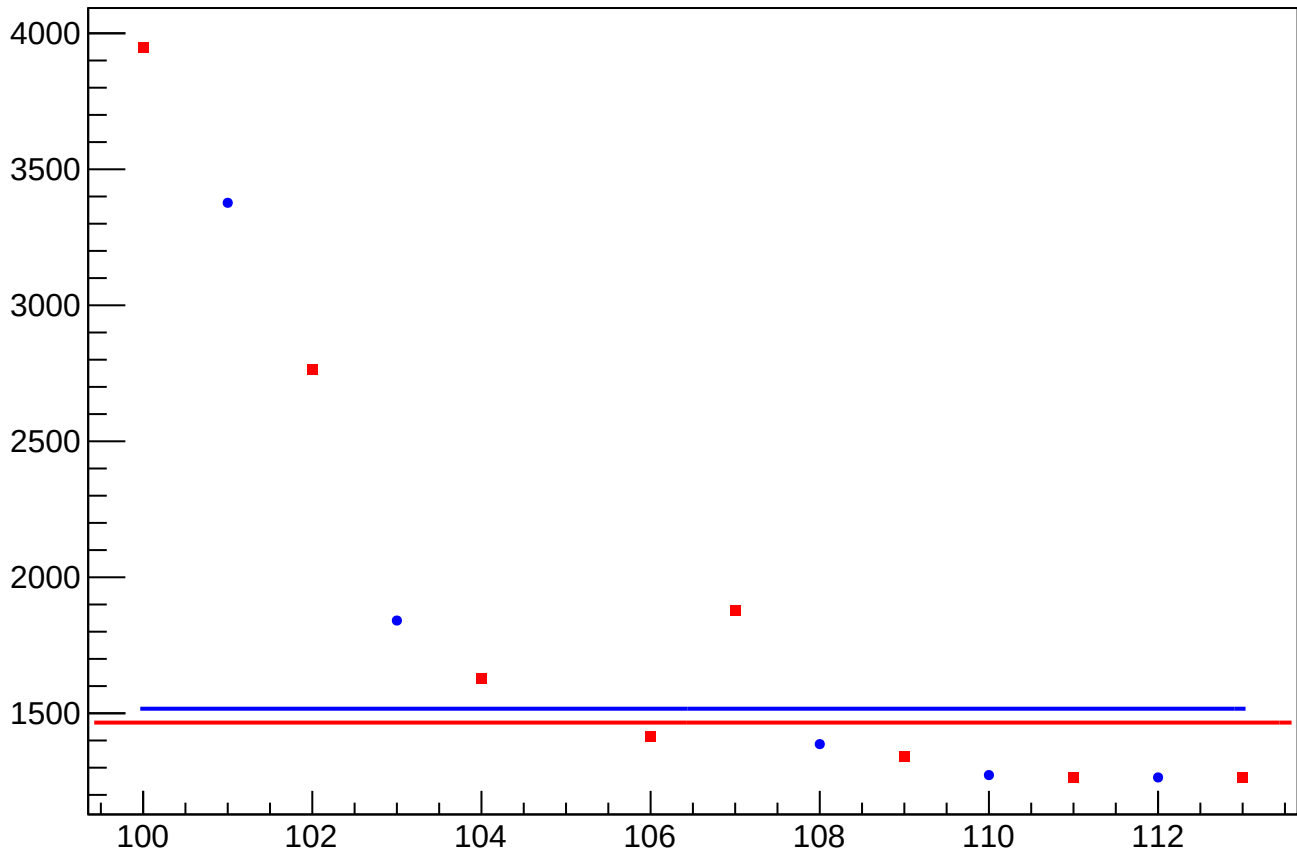
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -107.552+/-657.594  $\chi^2/\text{NDF}$ : 6.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1516.801+/-0.714  $\chi^2/\text{NDF}$ : 508787.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1465.810+/-0.613  $\chi^2/\text{NDF}$ : 377535.8/7

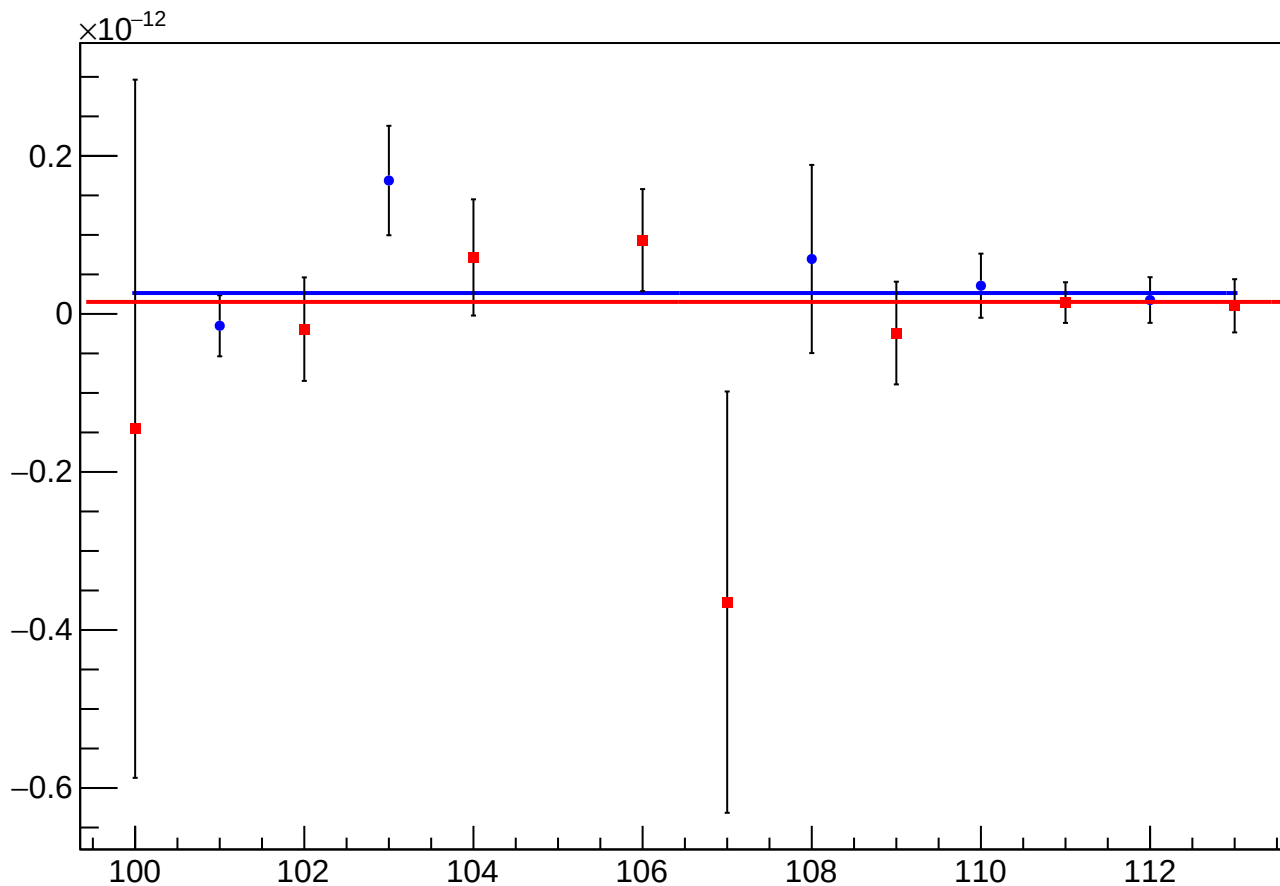
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1487.420+/-0.465  $\chi^2/\text{NDF}$ : 889260.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.9/7

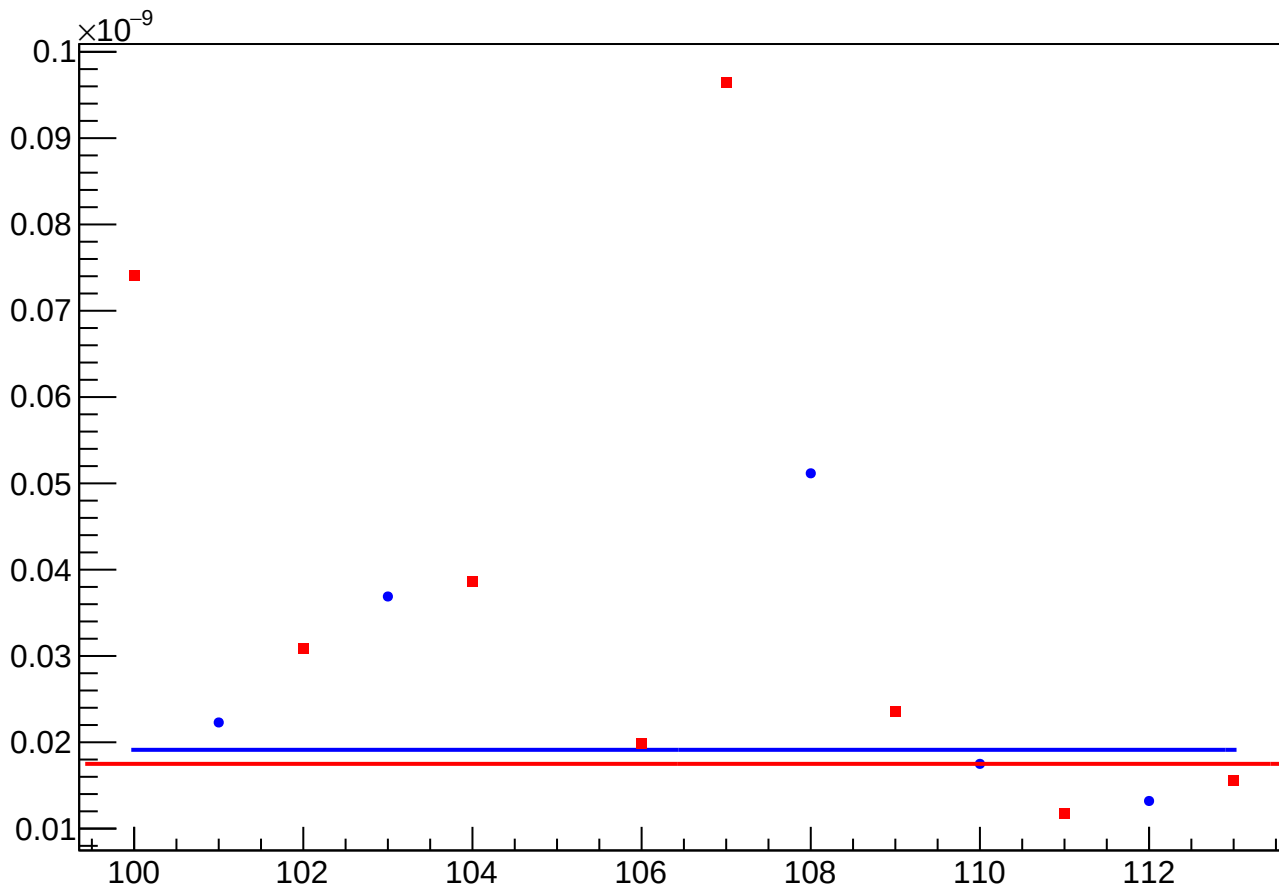
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 377140.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 582616.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

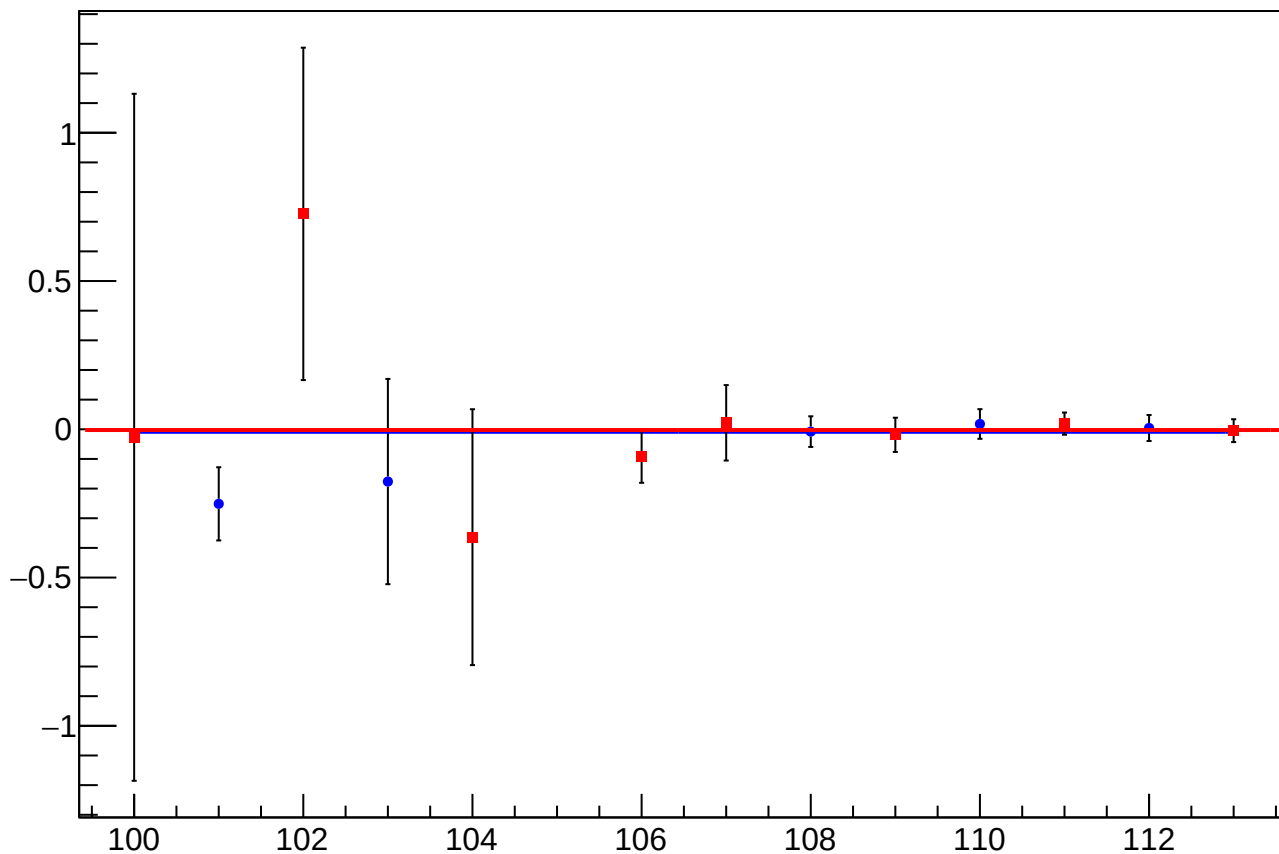
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 967707.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_dd\_atlr\_dd\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.008 \pm 0.027$   $\chi^2/\text{NDF}$ : 4.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.002 \pm 0.023$   $\chi^2/\text{NDF}$ : 3.8/7

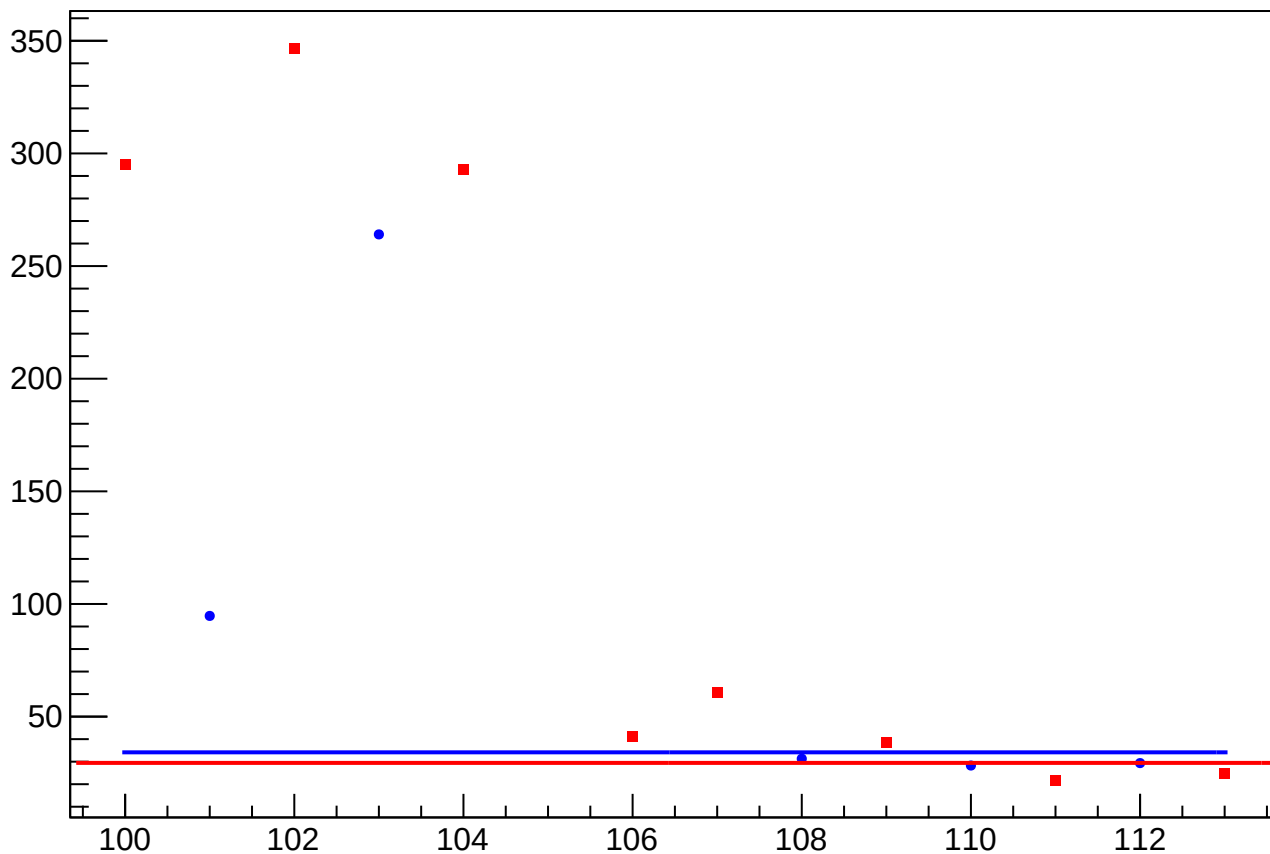
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.005 \pm 0.018$   $\chi^2/\text{NDF}$ : 8.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_atlr\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 34.146 $\pm$ 0.019  $\chi^2$ /NDF: 1421297.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 29.456 $\pm$ 0.016  $\chi^2$ /NDF: 1813565.1/7

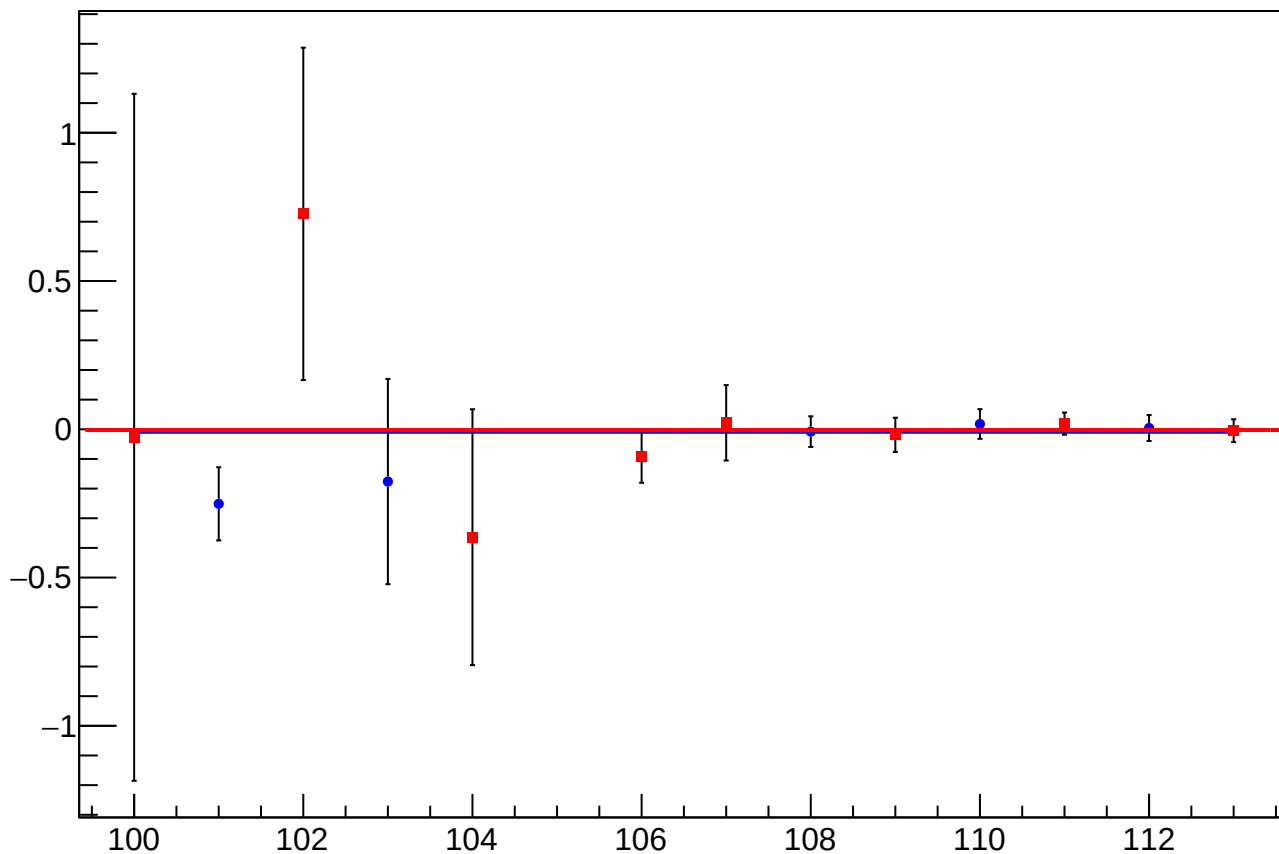
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.429 $\pm$ 0.012  $\chi^2$ /NDF: 3269761.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.027  $\chi^2$ /NDF: 4.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.002 $\pm$ 0.023  $\chi^2$ /NDF: 3.8/7

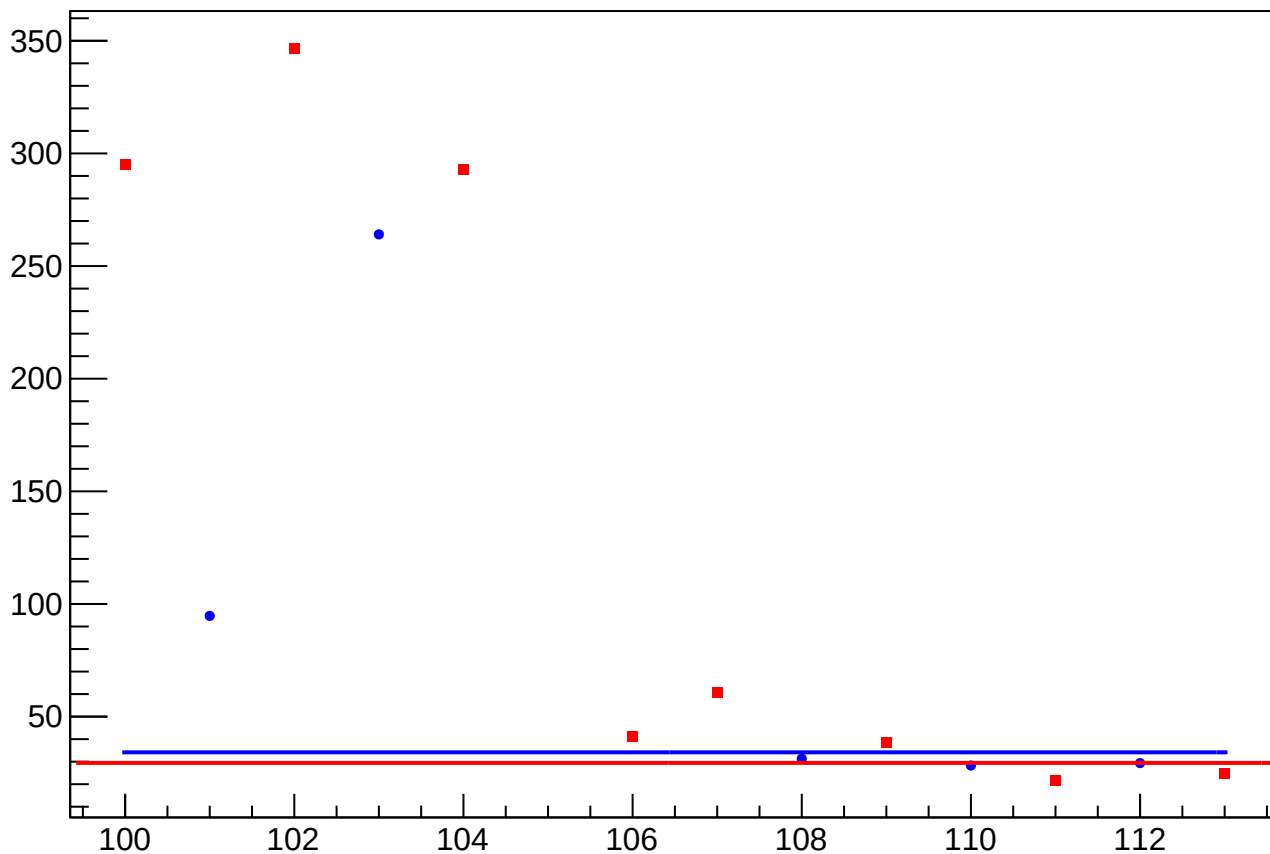
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.005 $\pm$ 0.018  $\chi^2$ /NDF: 8.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 34.146+/-0.019  $\chi^2/\text{NDF}$ : 1421297.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.456+/-0.016  $\chi^2/\text{NDF}$ : 1813565.1/7

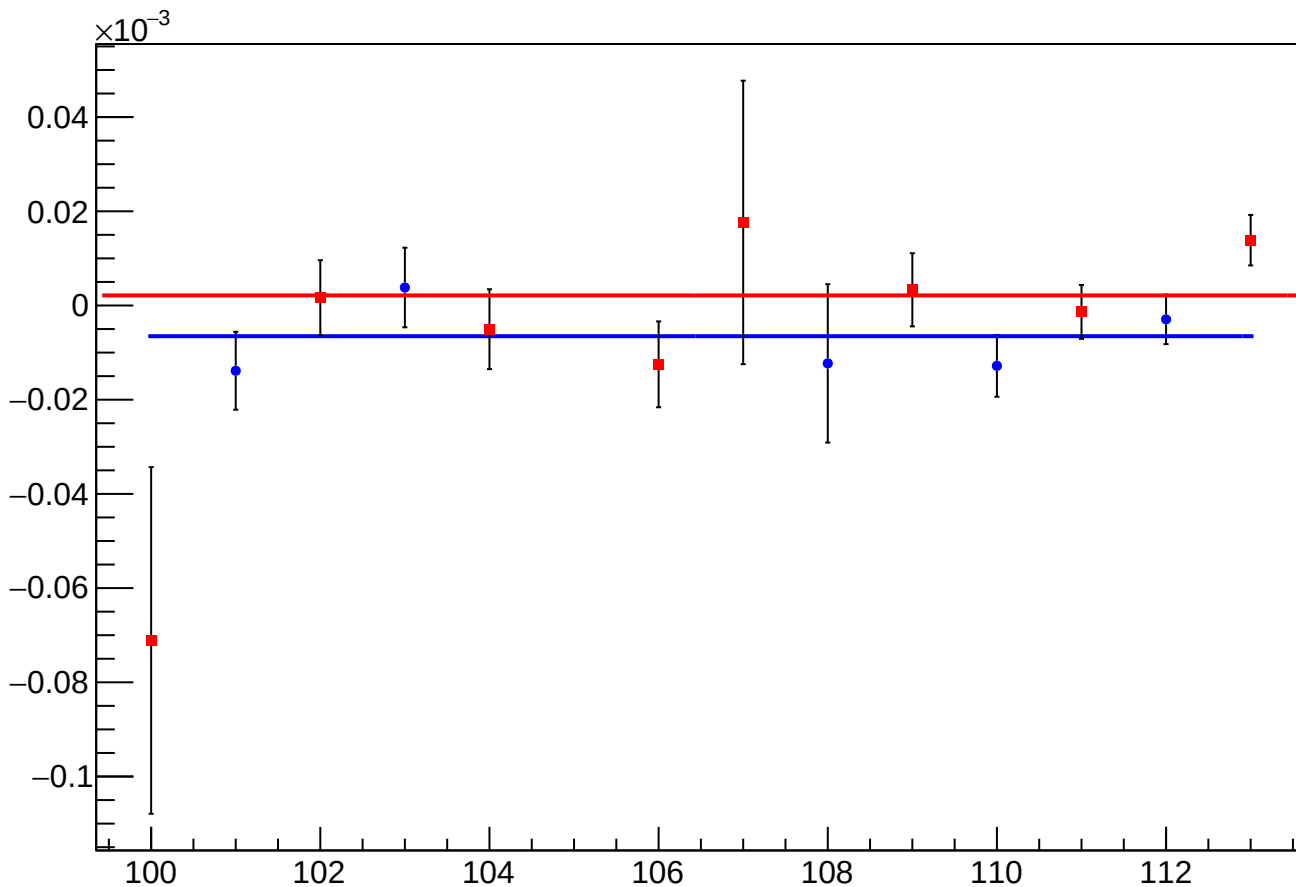
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.429+/-0.012  $\chi^2/\text{NDF}$ : 3269761.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.7/7

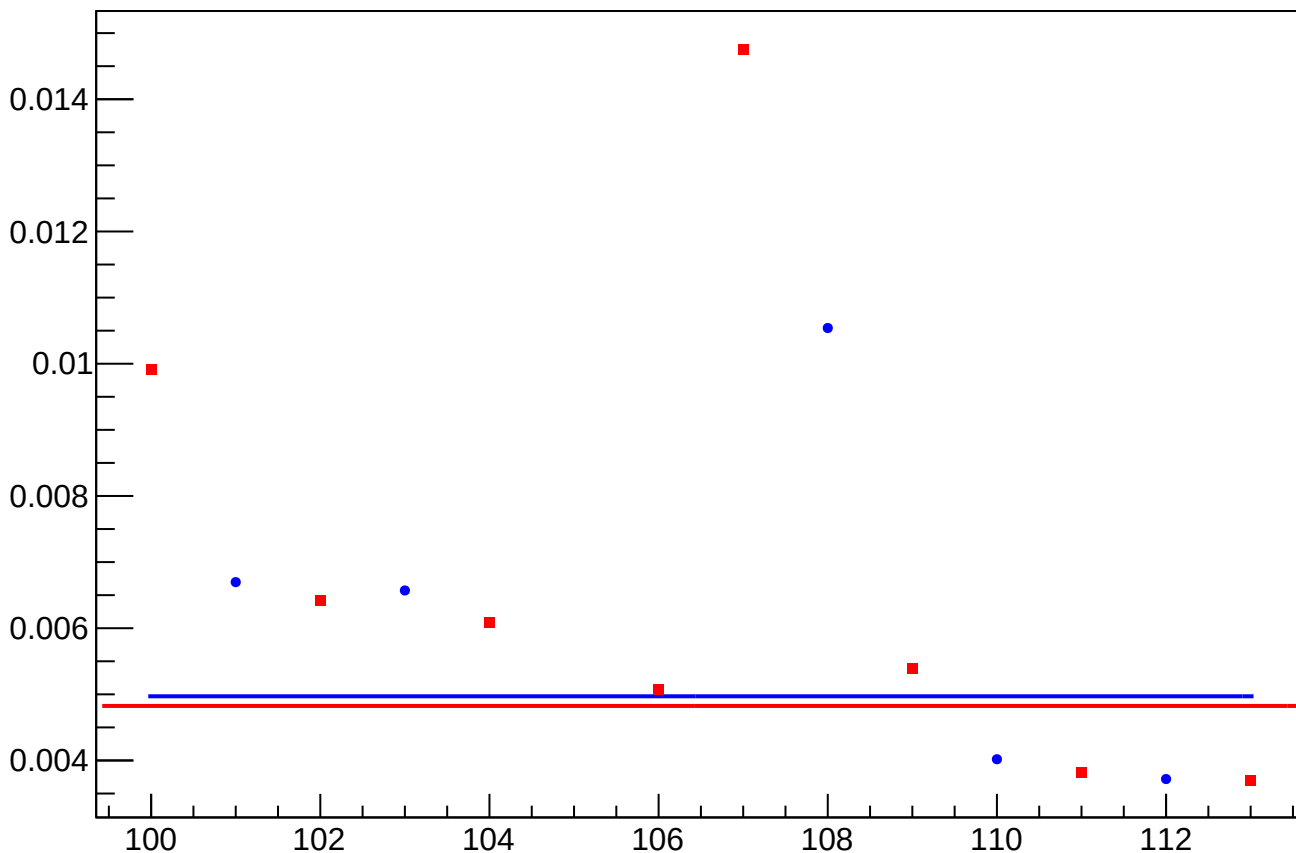
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 533571.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 543353.4/7

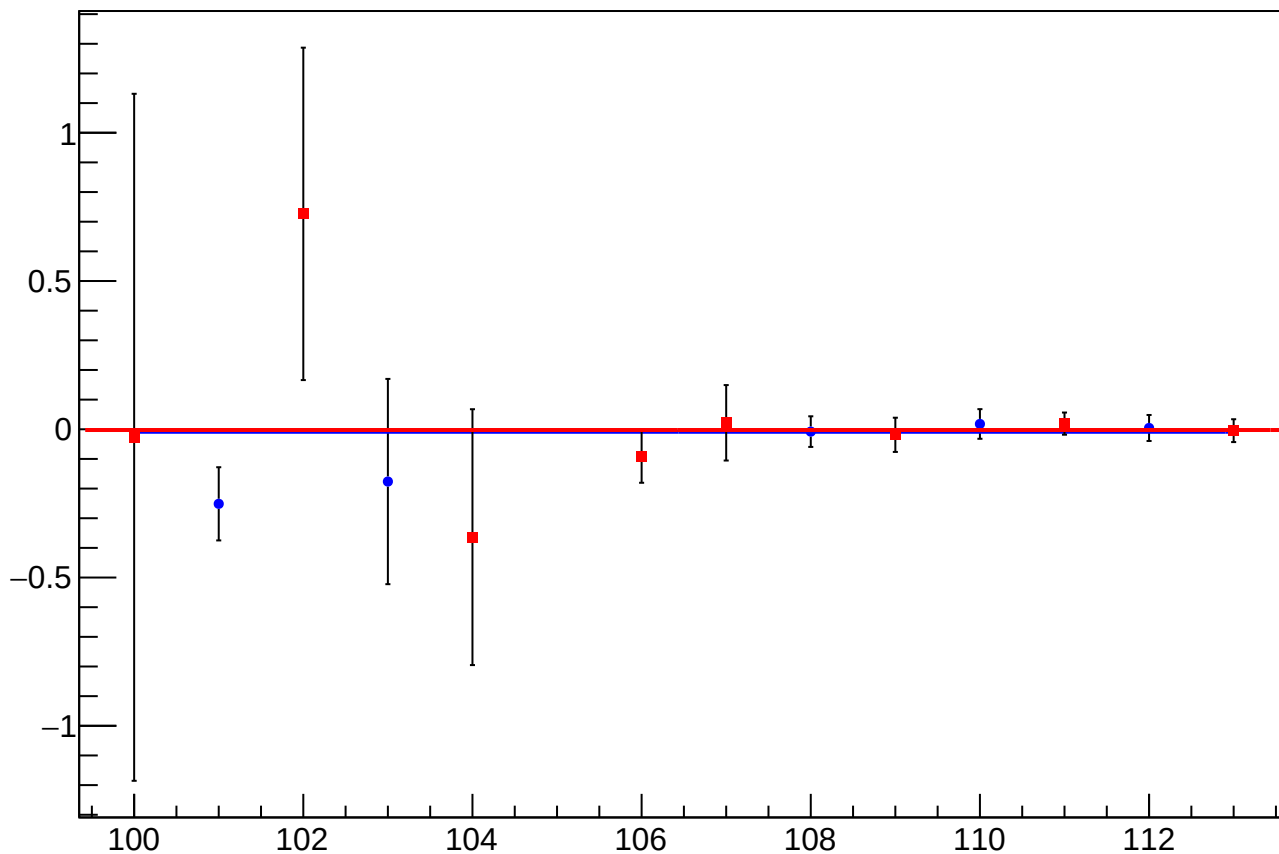
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1079183.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.027  $\chi^2$ /NDF: 4.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.002 $\pm$ 0.023  $\chi^2$ /NDF: 3.8/7

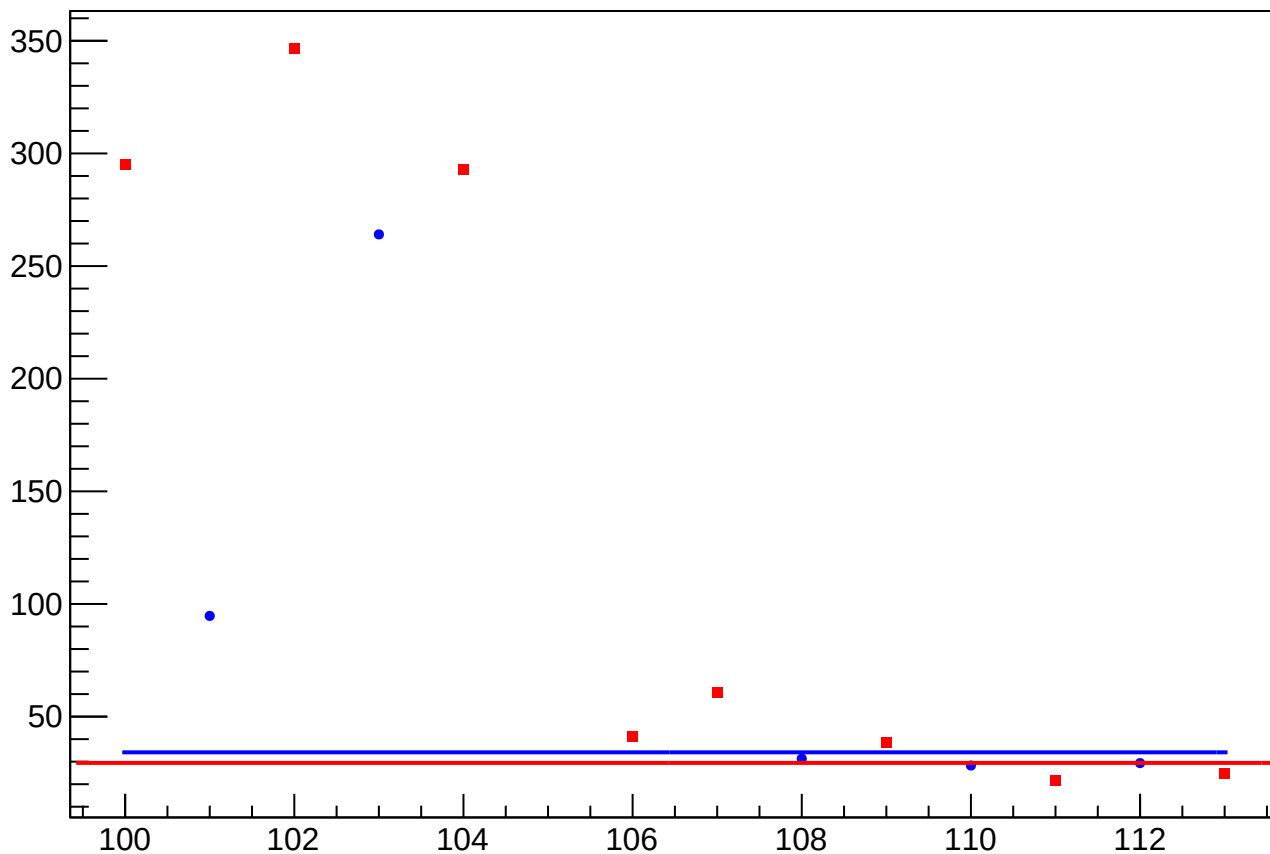
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.005 $\pm$ 0.018  $\chi^2$ /NDF: 8.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 34.145 $\pm$ 0.019  $\chi^2$ /NDF: 1421324.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 29.453 $\pm$ 0.016  $\chi^2$ /NDF: 1813681.6/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

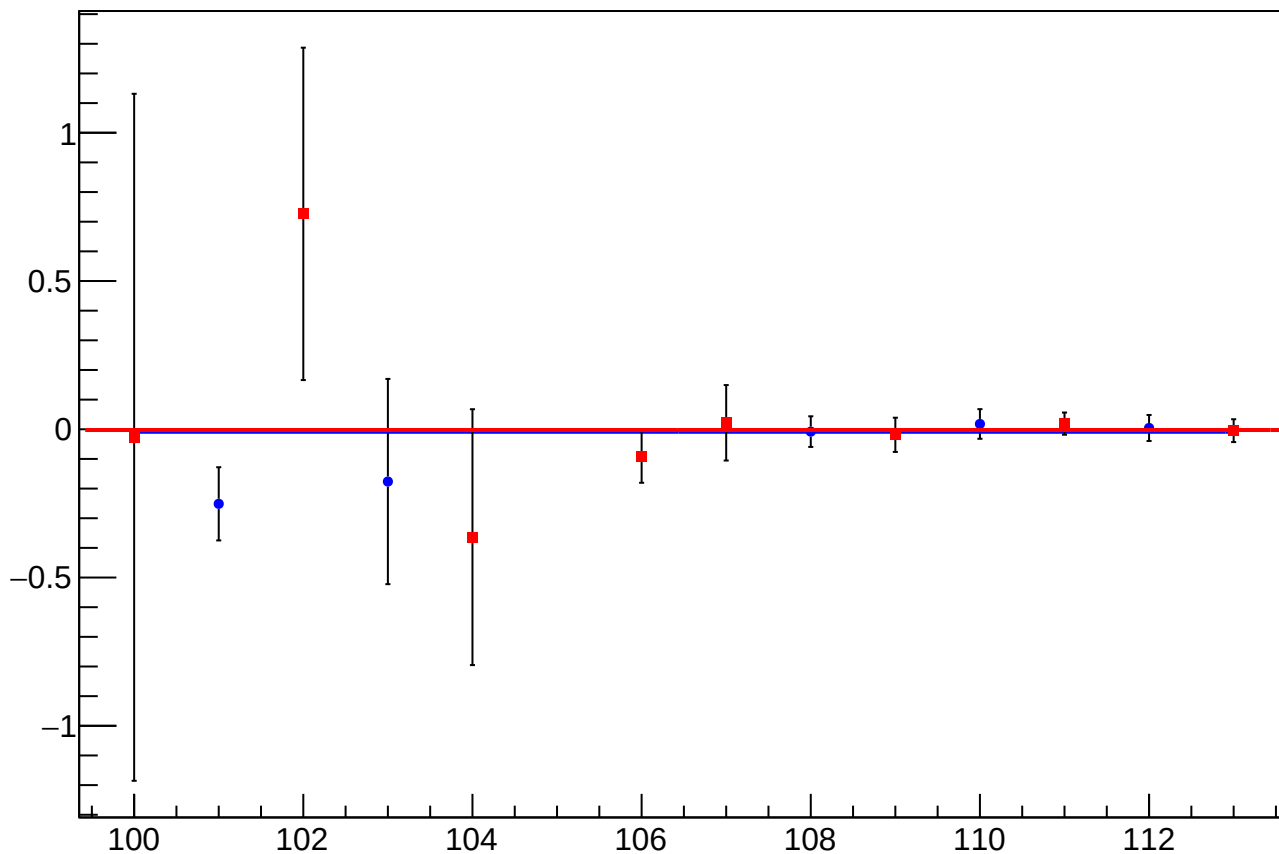
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.428 $\pm$ 0.012  $\chi^2$ /NDF: 3269940.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.008+/-0.027  $\chi^2/\text{NDF}$ : 4.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.002+/-0.023  $\chi^2/\text{NDF}$ : 3.8/7

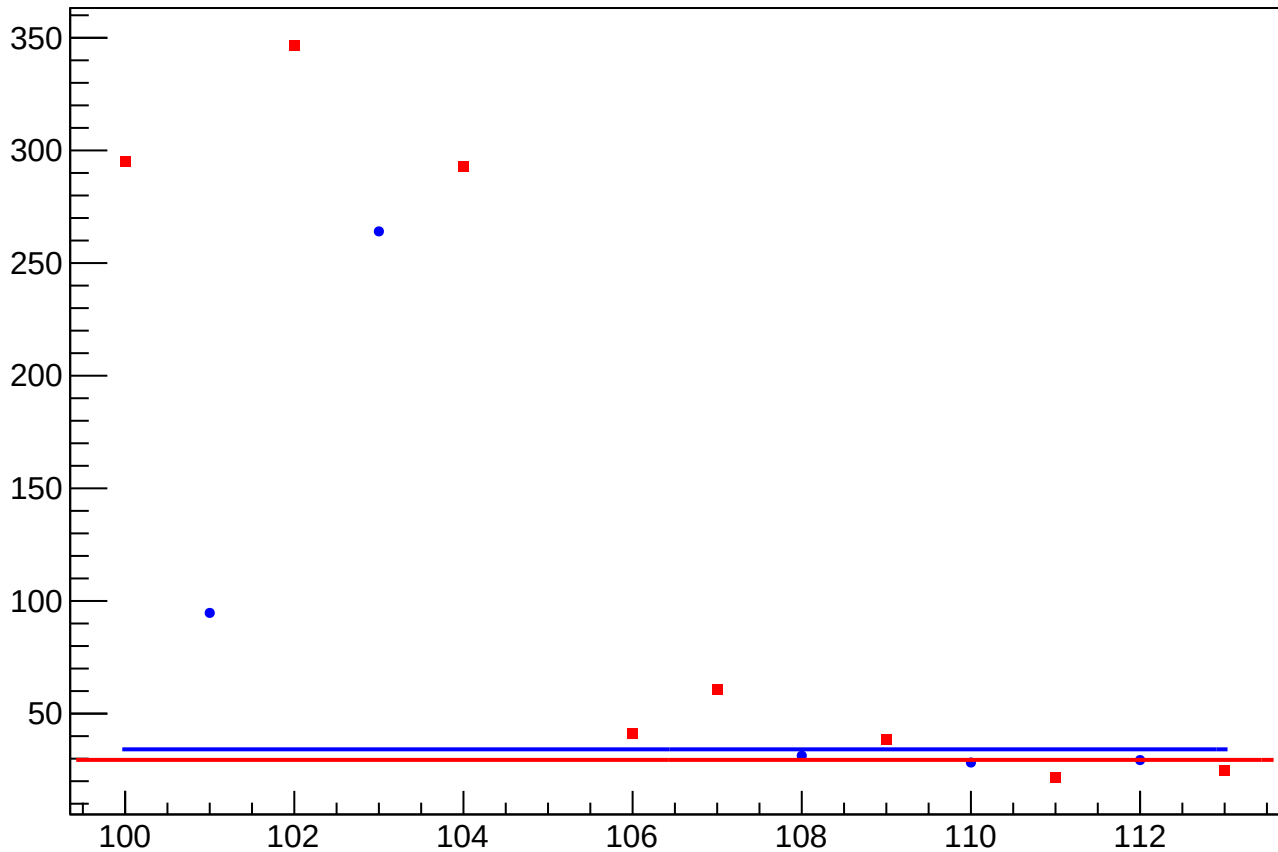
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.005+/-0.018  $\chi^2/\text{NDF}$ : 8.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 34.145+/-0.019  $\chi^2/\text{NDF}$ : 1421324.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.453+/-0.016  $\chi^2/\text{NDF}$ : 1813681.6/7

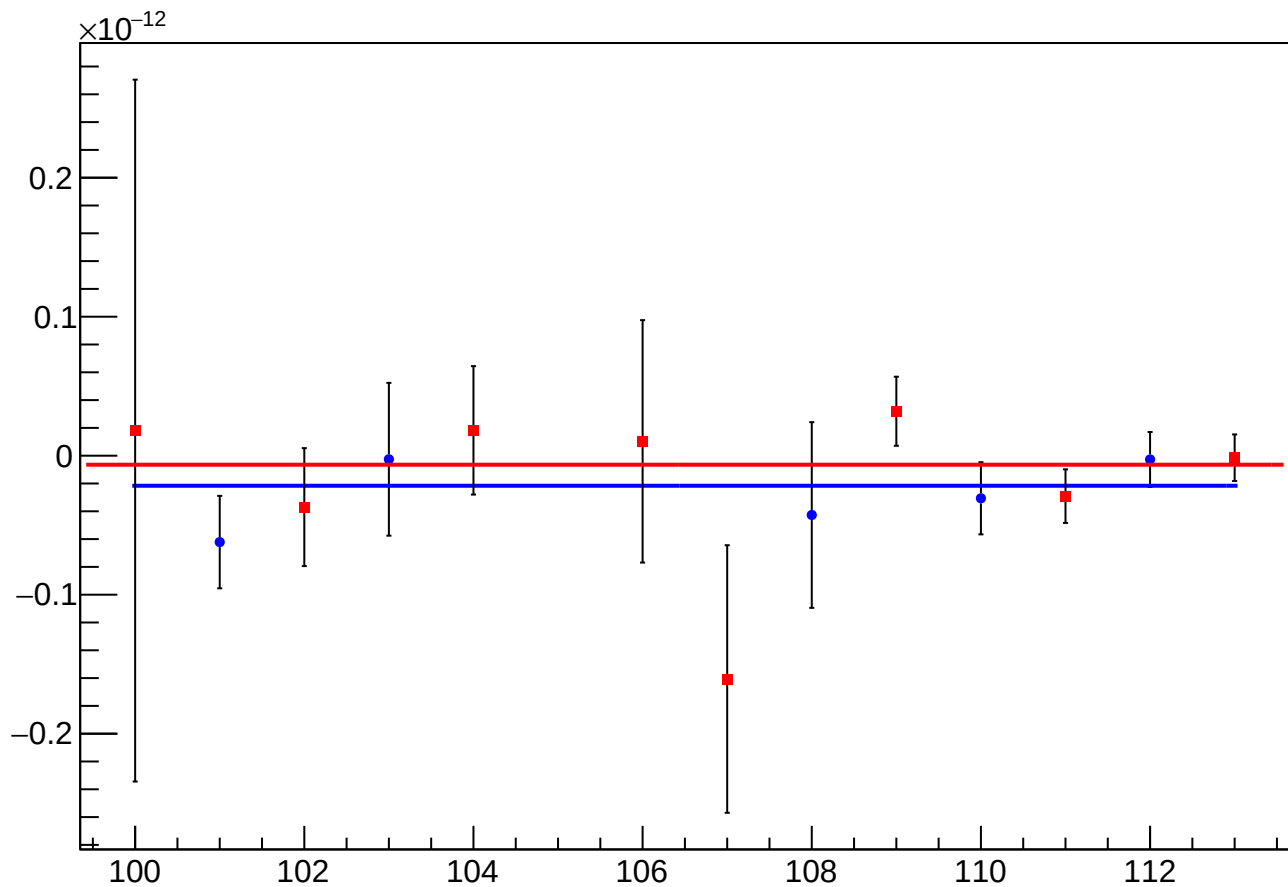
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.428+/-0.012  $\chi^2/\text{NDF}$ : 3269940.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.3/7

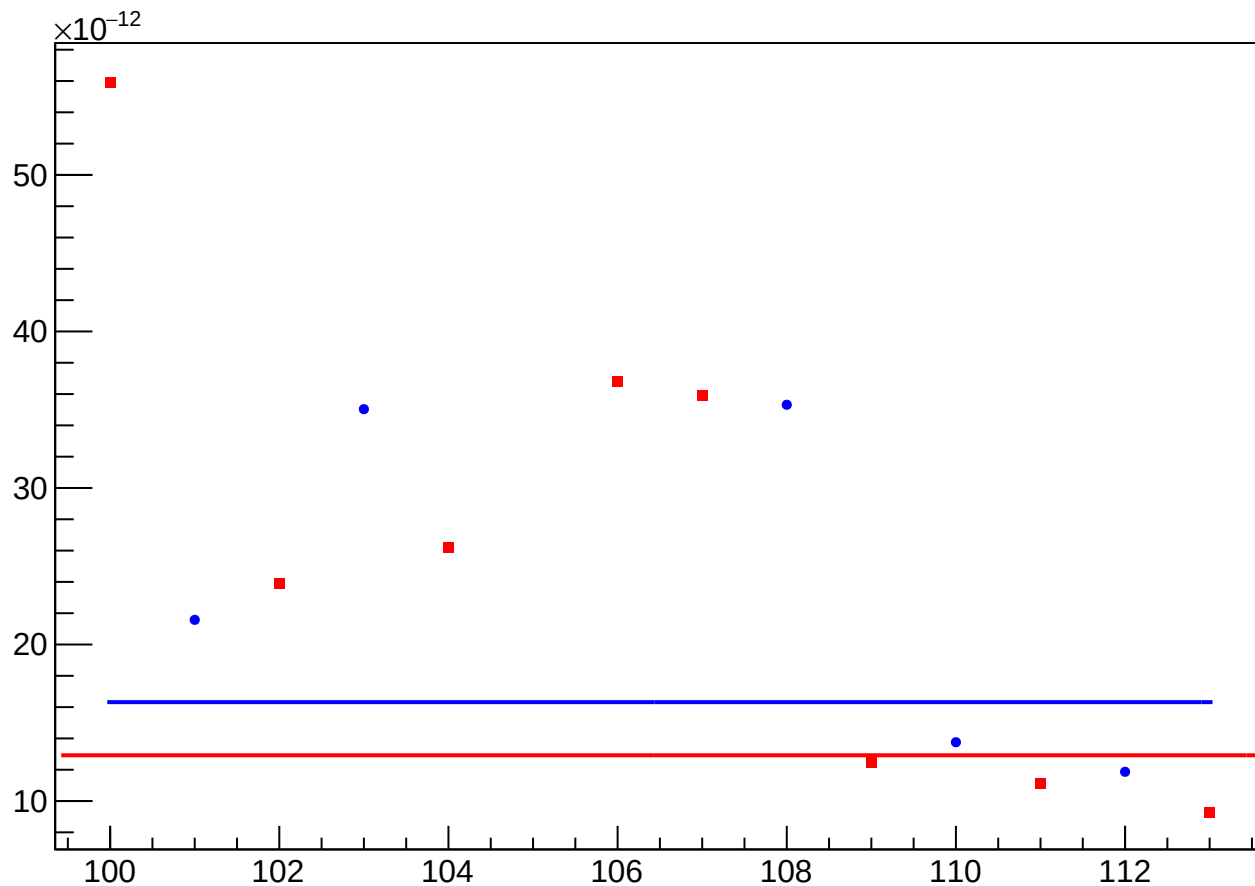
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 564703.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 734654.4/7

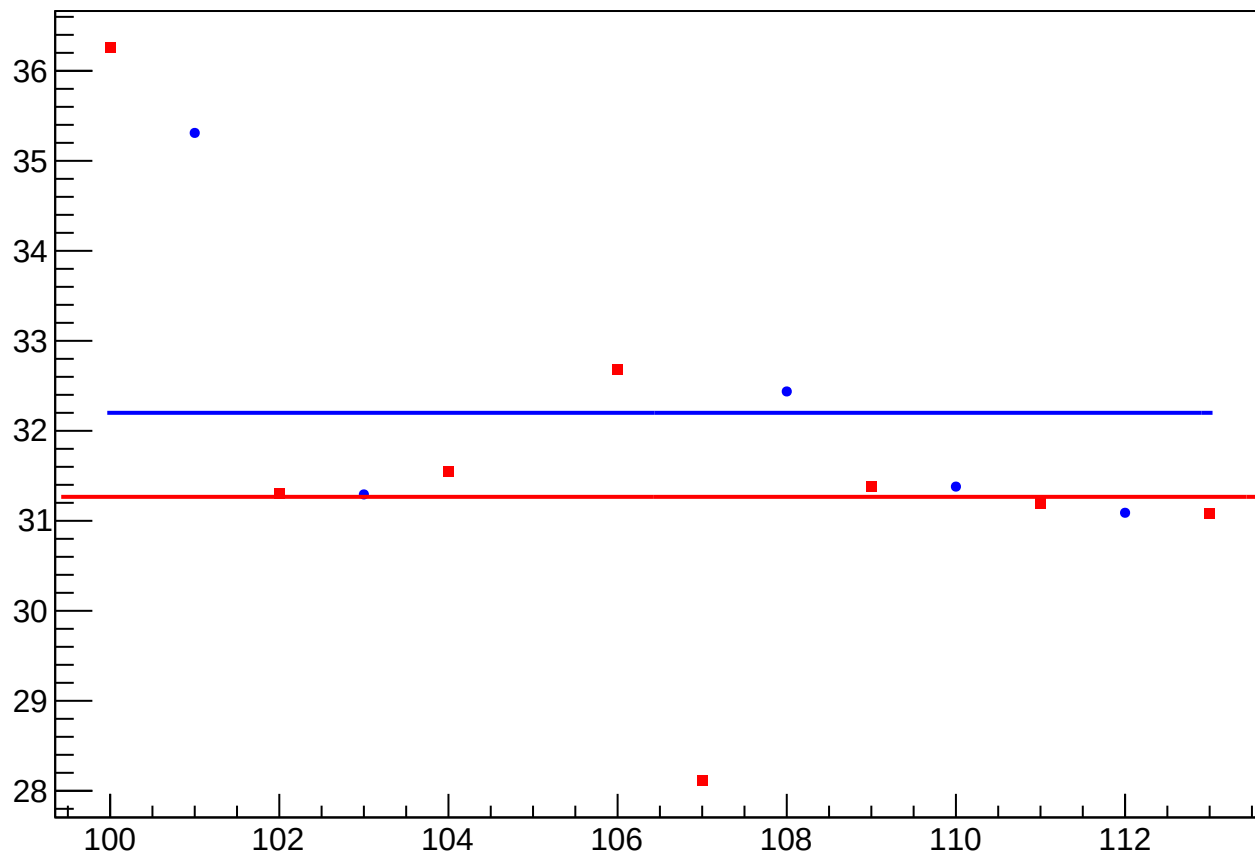
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1378547.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_usl\_mean vs Slug



Right In: 32.200+/-0.000  $\chi^2/\text{NDF}$ : 760664648.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.266+/-0.000  $\chi^2/\text{NDF}$ : 208133740.9/7

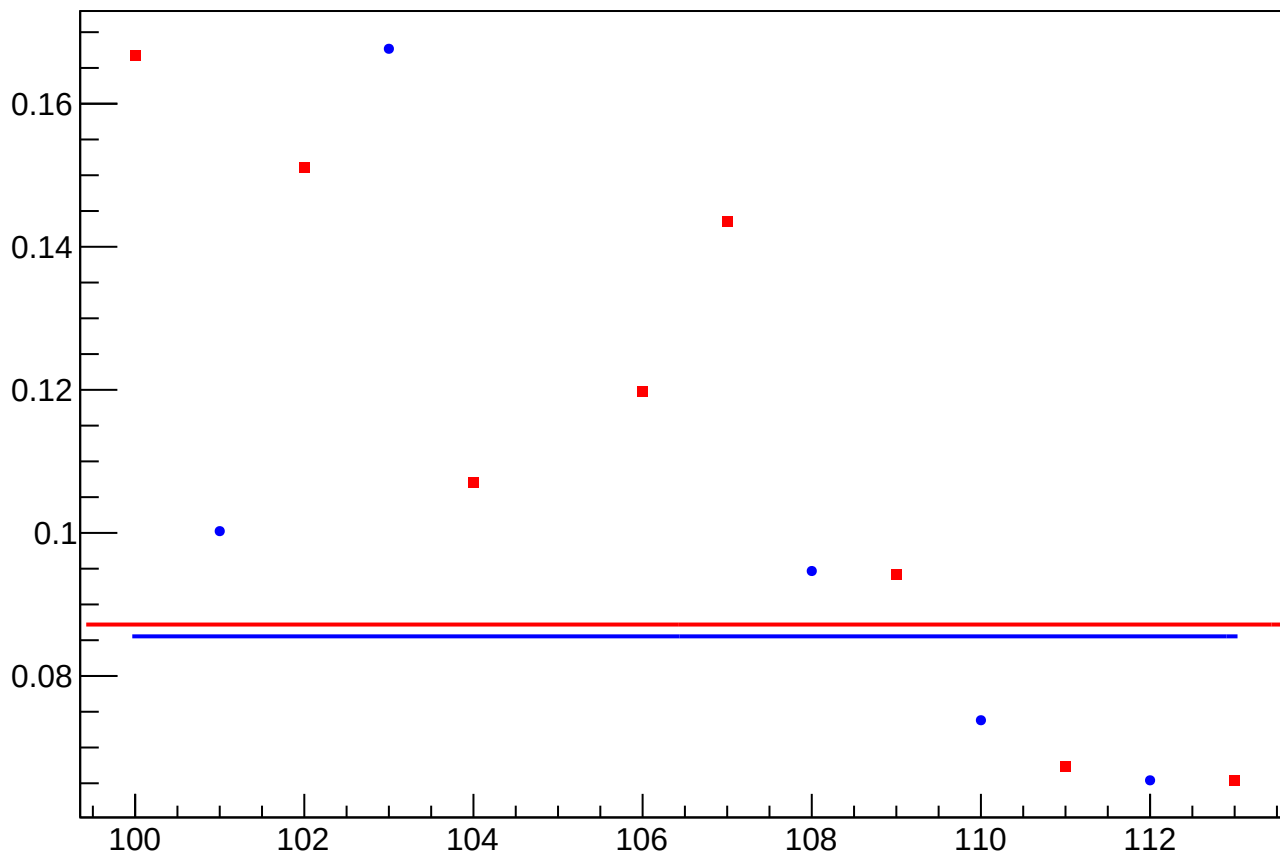
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.689+/-0.000  $\chi^2/\text{NDF}$ : 1105828014.5/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_usl\_rms vs Slug



Right In: 0.086+/-0.000  $\chi^2/\text{NDF}$ : 419156.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.087+/-0.000  $\chi^2/\text{NDF}$ : 550904.9/7

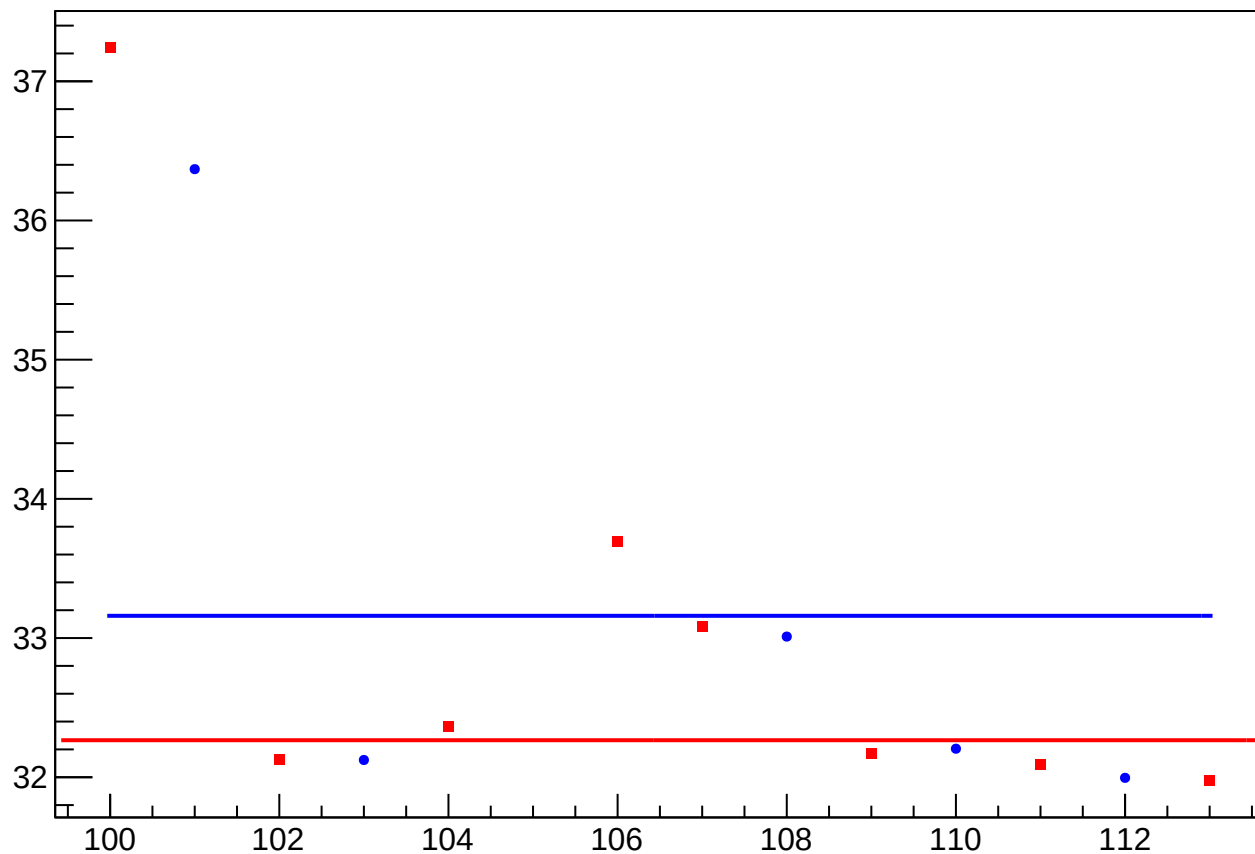
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.086+/-0.000  $\chi^2/\text{NDF}$ : 970918.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_usr\_mean vs Slug



Right In: 33.160 $\pm$ 0.000  $\chi^2$ /NDF: 595420042.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 32.266 $\pm$ 0.000  $\chi^2$ /NDF: 81236482.5/7

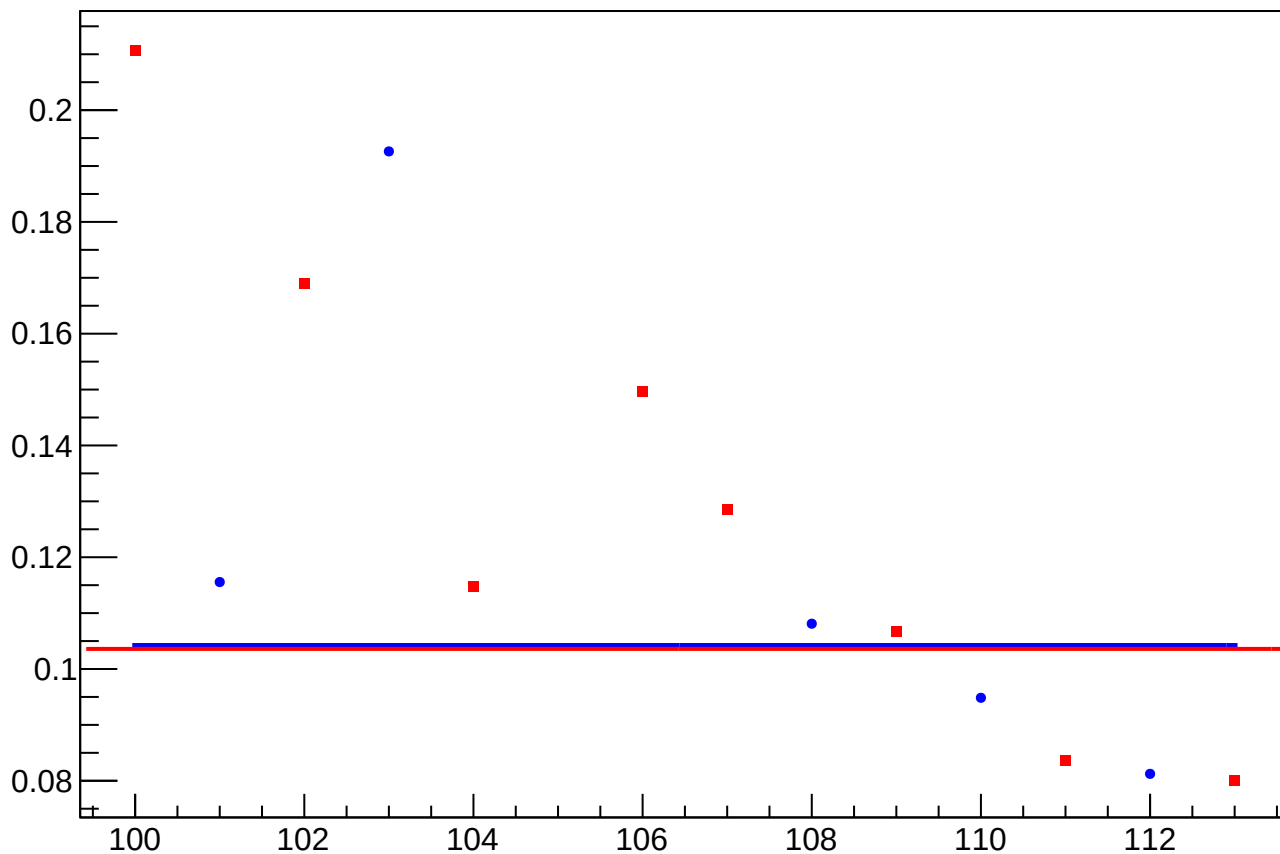
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 32.659 $\pm$ 0.000  $\chi^2$ /NDF: 764534073.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_usr\_rms vs Slug



Right In: 0.104 $\pm$ 0.000  $\chi^2$ /NDF: 340920.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.104 $\pm$ 0.000  $\chi^2$ /NDF: 411754.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

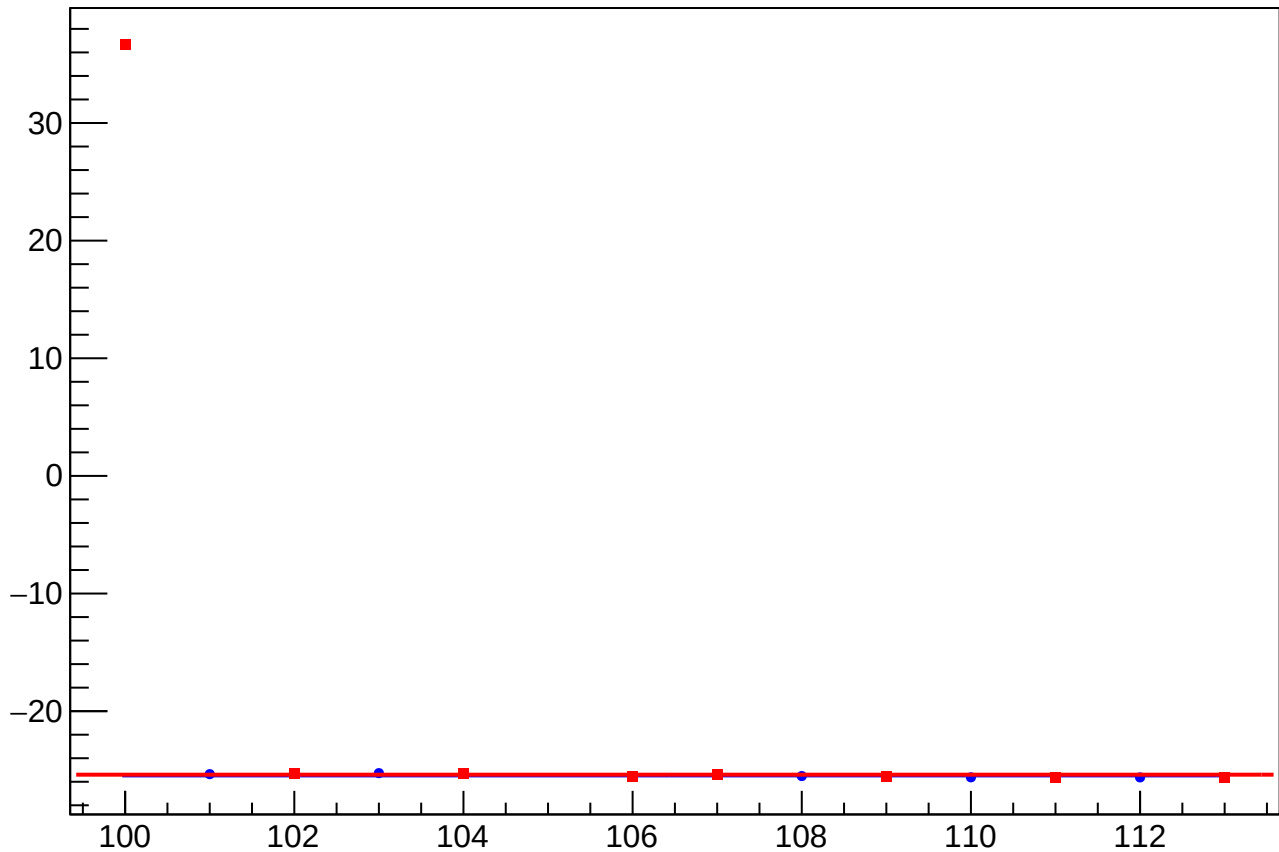
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.104 $\pm$ 0.000  $\chi^2$ /NDF: 752780.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



yield\_dsl\_mean vs Slug



Right In: -25.459 $\pm$ 0.000  $\chi^2$ /NDF: 33558072.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -25.398 $\pm$ 0.000  $\chi^2$ /NDF: 8808862333.7/7

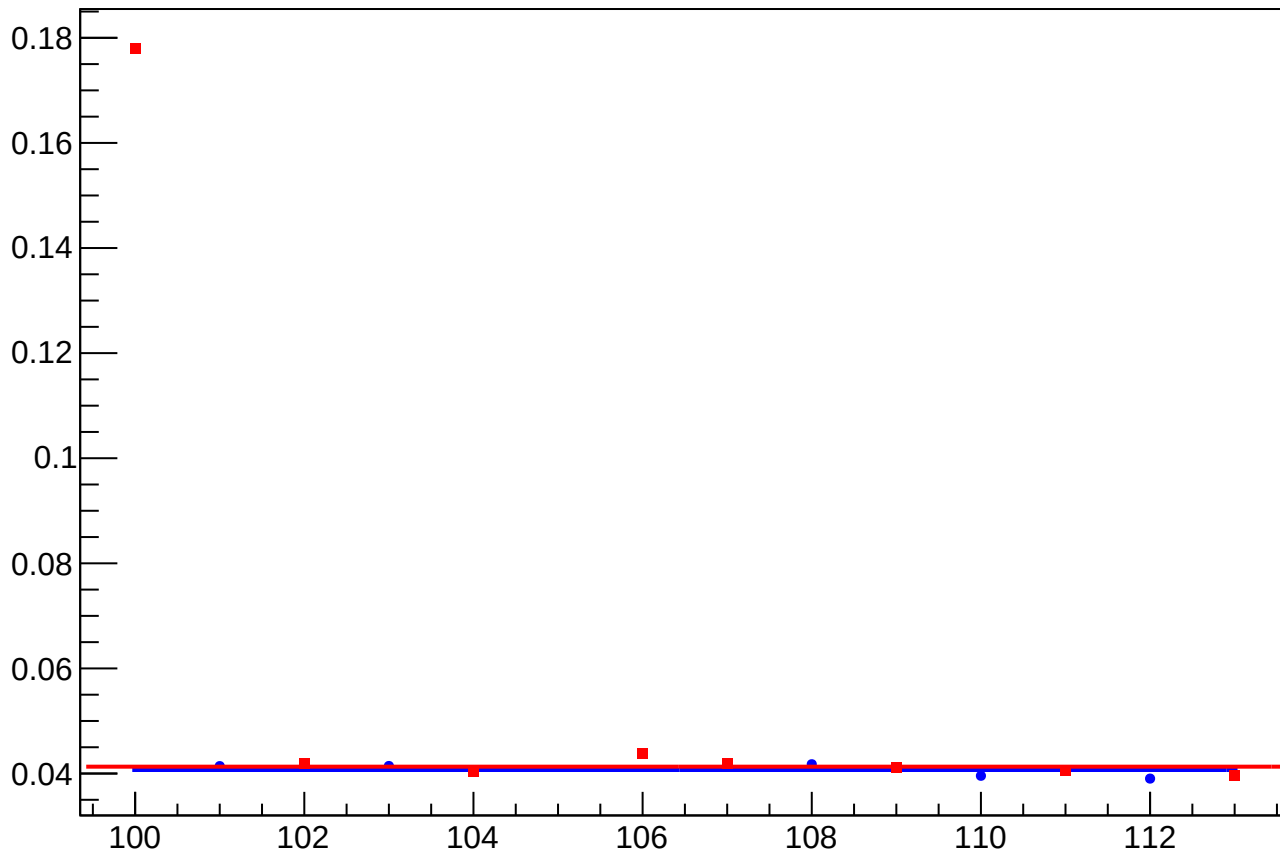
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -25.425 $\pm$ 0.000  $\chi^2$ /NDF: 8845569177.8/14

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_dsl\_rms vs Slug



Right In: 0.041+/-0.000  $\chi^2/\text{NDF}$ : 3691.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.041+/-0.000  $\chi^2/\text{NDF}$ : 89796.9/7

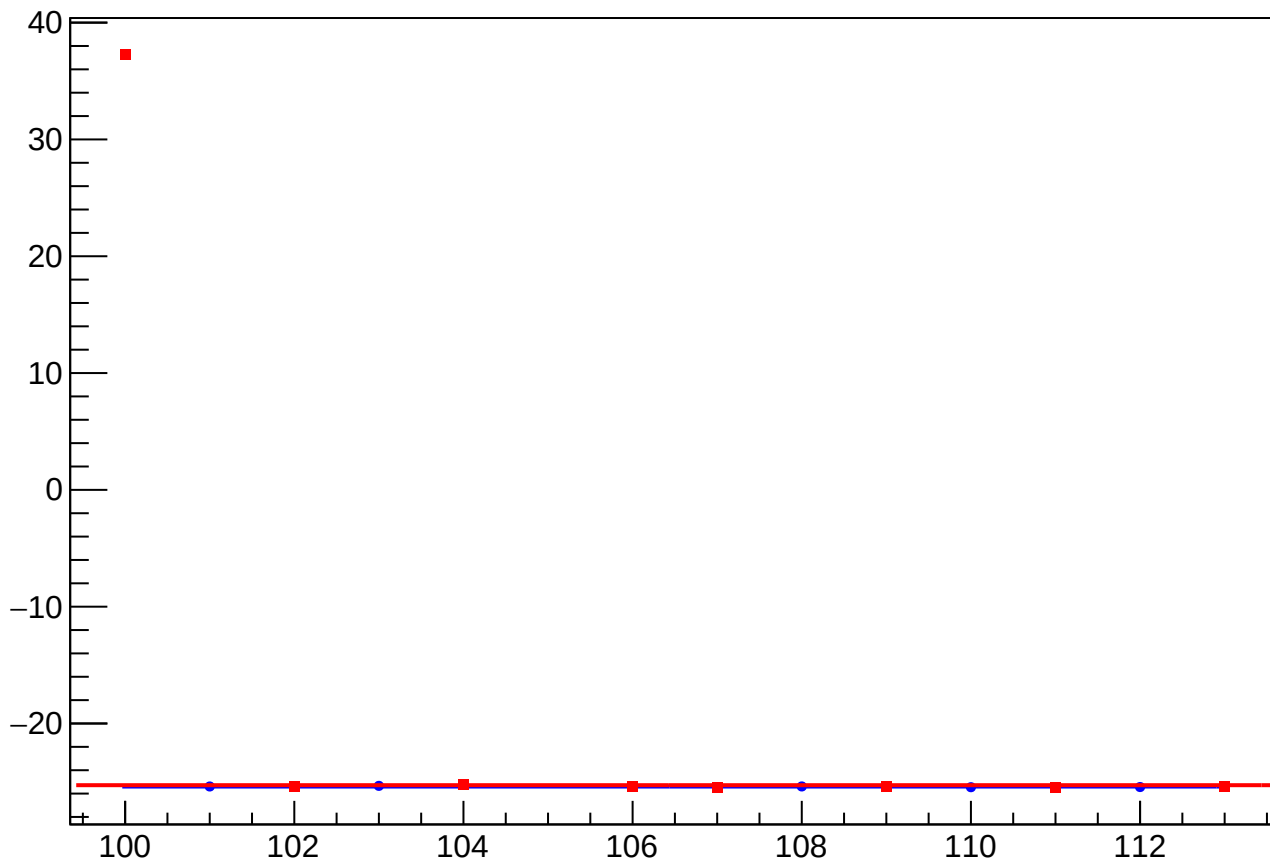
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.041+/-0.000  $\chi^2/\text{NDF}$ : 94163.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_dsr\_mean vs Slug



Right In: -25.396+/-0.000  $\chi^2/\text{NDF}$ : 1179017.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -25.281+/-0.000  $\chi^2/\text{NDF}$ : 6302085478.4/7

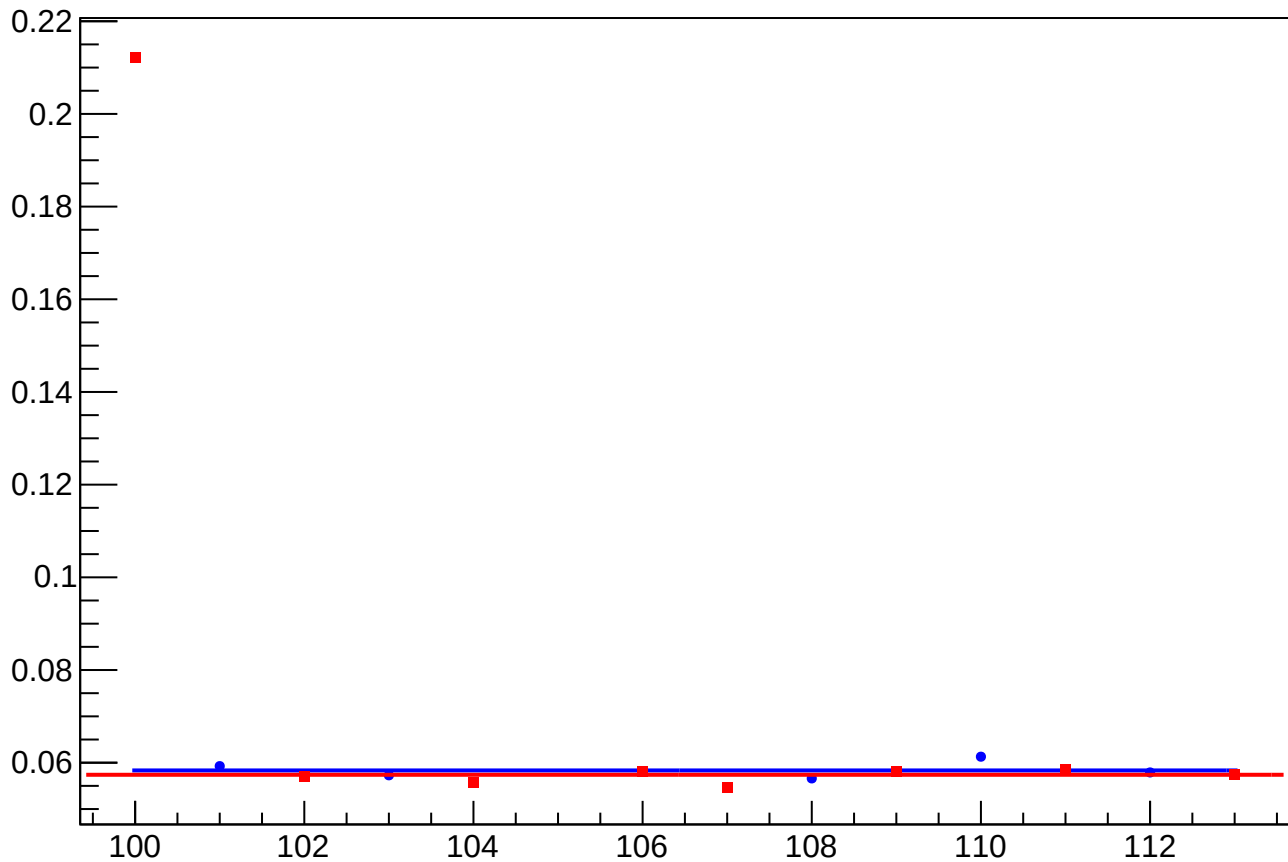
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -25.331+/-0.000  $\chi^2/\text{NDF}$ : 6308674793.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_dsr\_rms vs Slug



Right In: 0.058+/-0.000  $\chi^2/\text{NDF}$ : 3151.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.057+/-0.000  $\chi^2/\text{NDF}$ : 79666.5/7

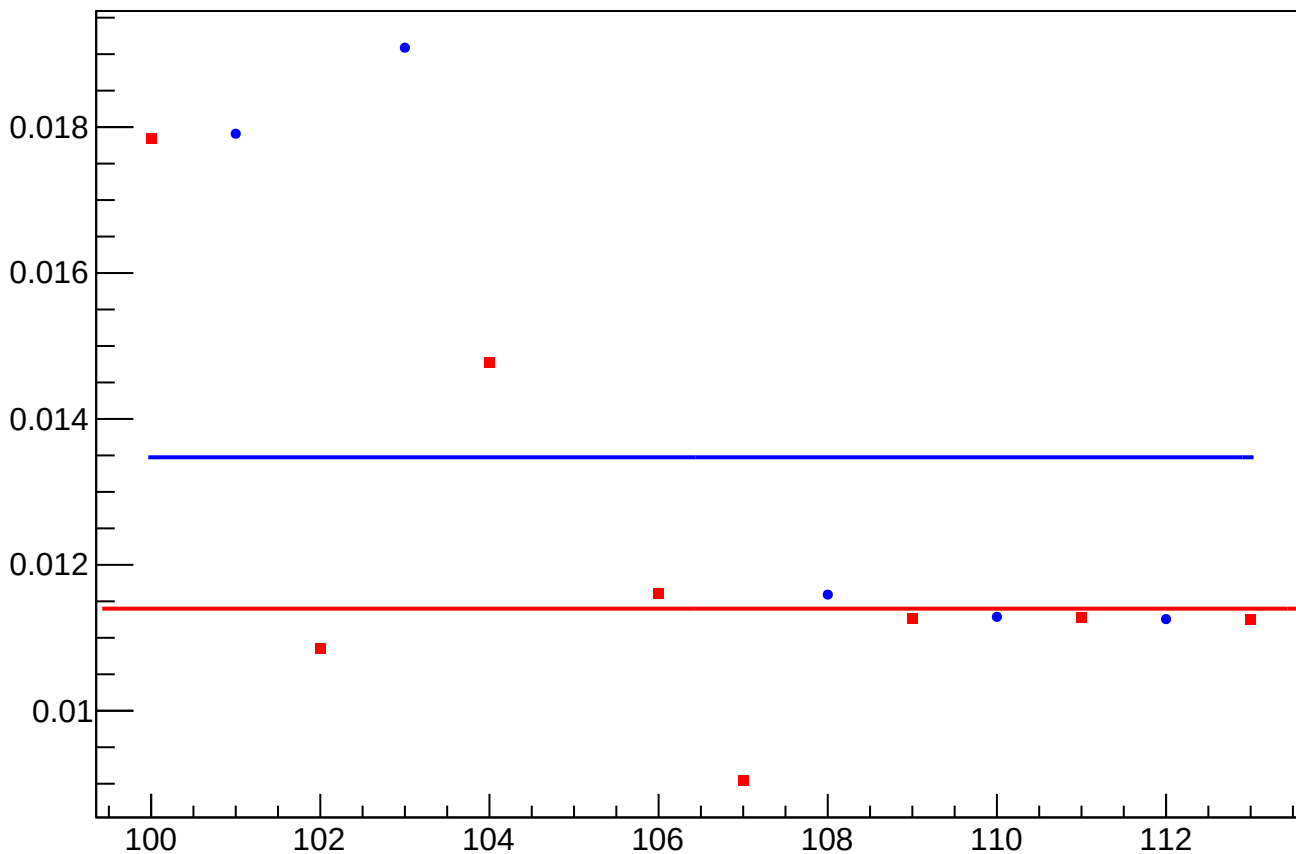
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.058+/-0.000  $\chi^2/\text{NDF}$ : 83538.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_atl1\_mean vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 6290338346.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 1148323544.7/7

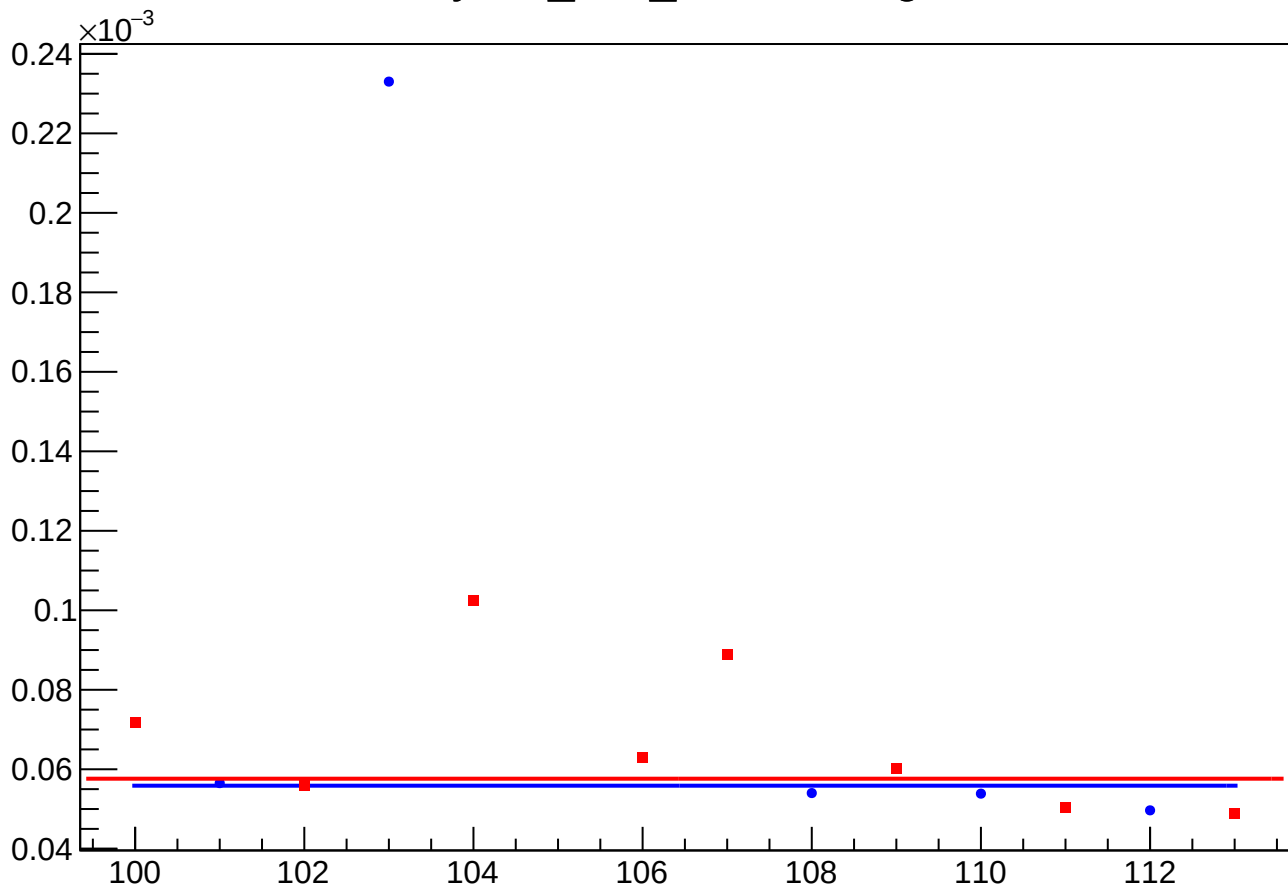
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 9005989704.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_atl1\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 578466.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 240883.8/7

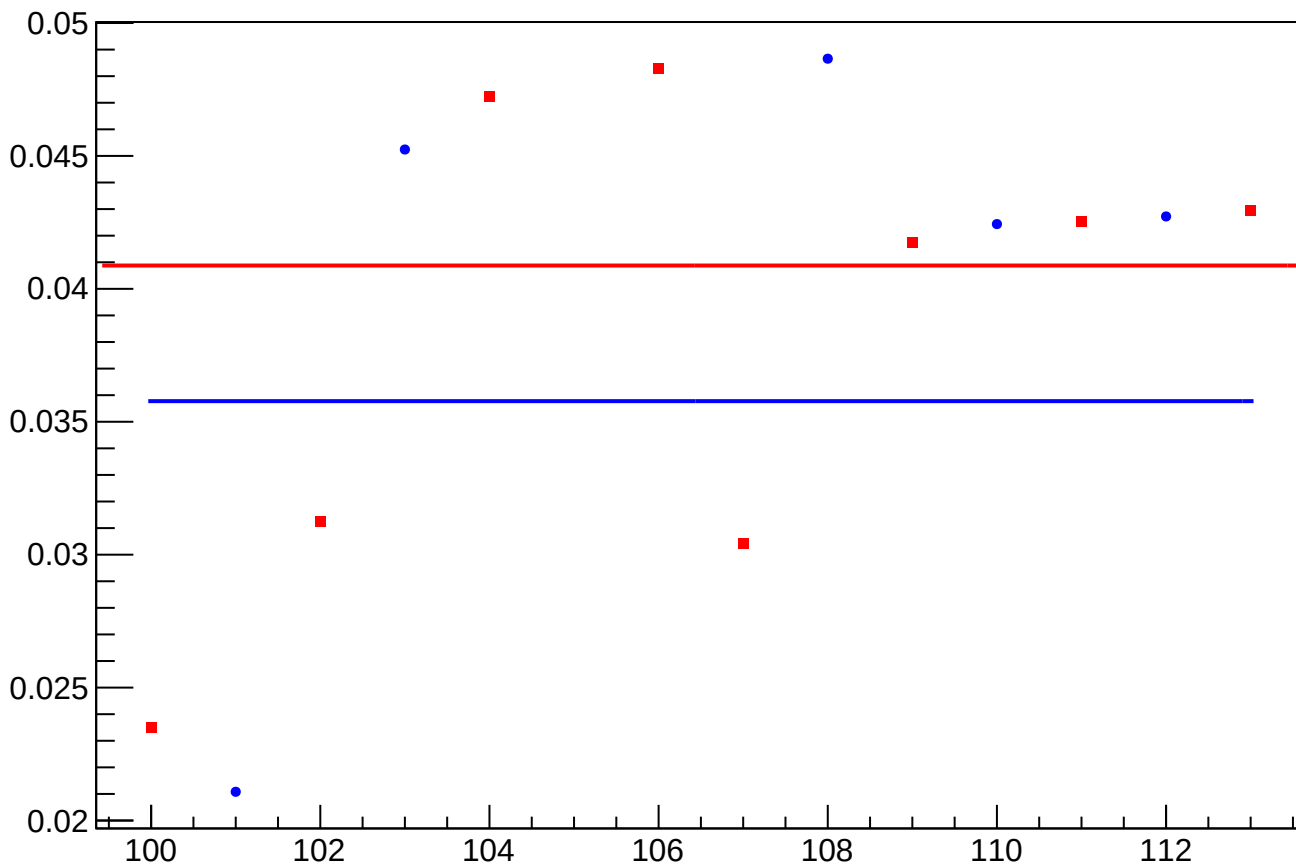
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 821607.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_atl2\_mean vs Slug



Right In: 0.036 $\pm$ 0.000  $\chi^2$ /NDF: 1764442234.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.041 $\pm$ 0.000  $\chi^2$ /NDF: 601173753.2/7

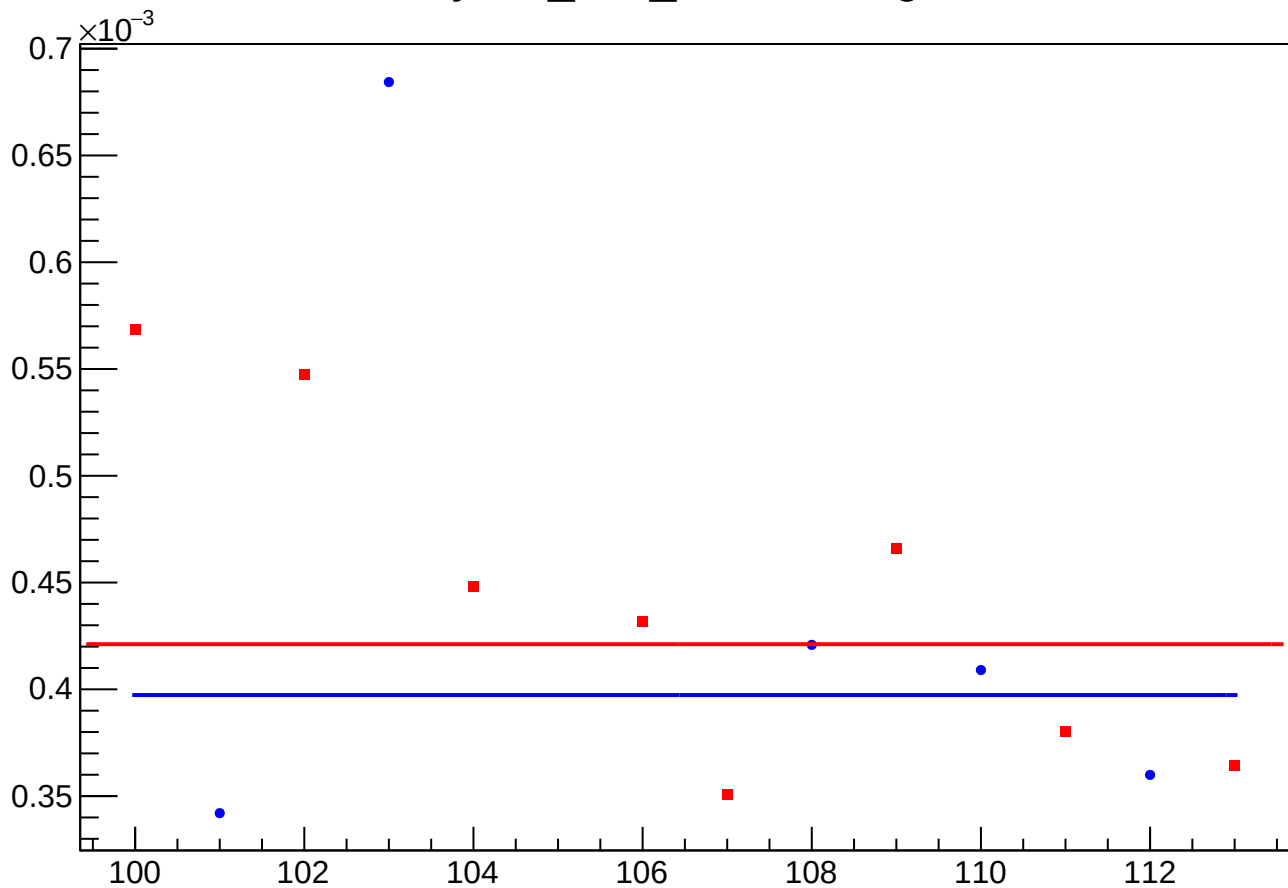
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.039 $\pm$ 0.000  $\chi^2$ /NDF: 2555506372.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_atl2\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 240055.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 125681.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

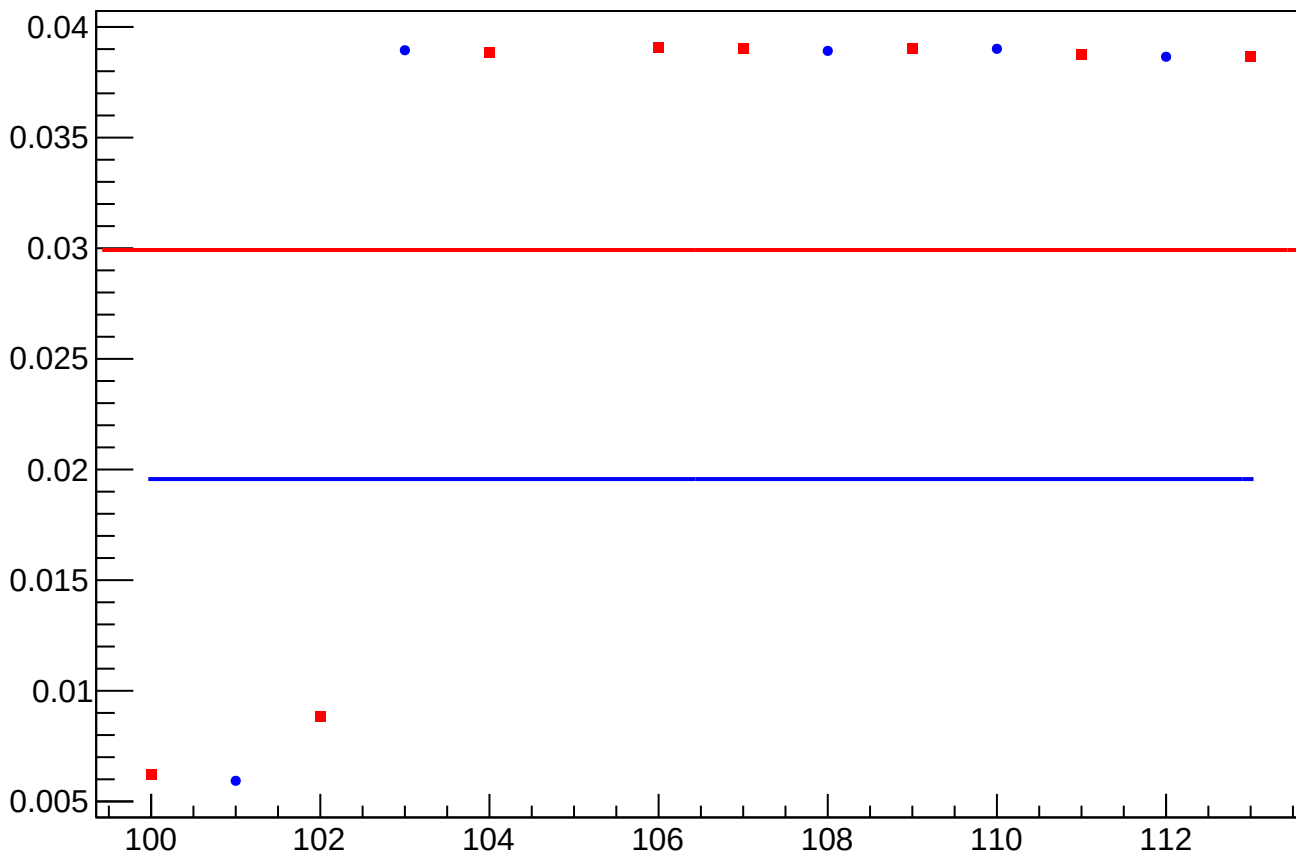
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 374014.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_atr1\_mean vs Slug



Right In: 0.020 $\pm$ 0.000  $\chi^2$ /NDF: 61392835725.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.030 $\pm$ 0.000  $\chi^2$ /NDF: 38540666685.7/7

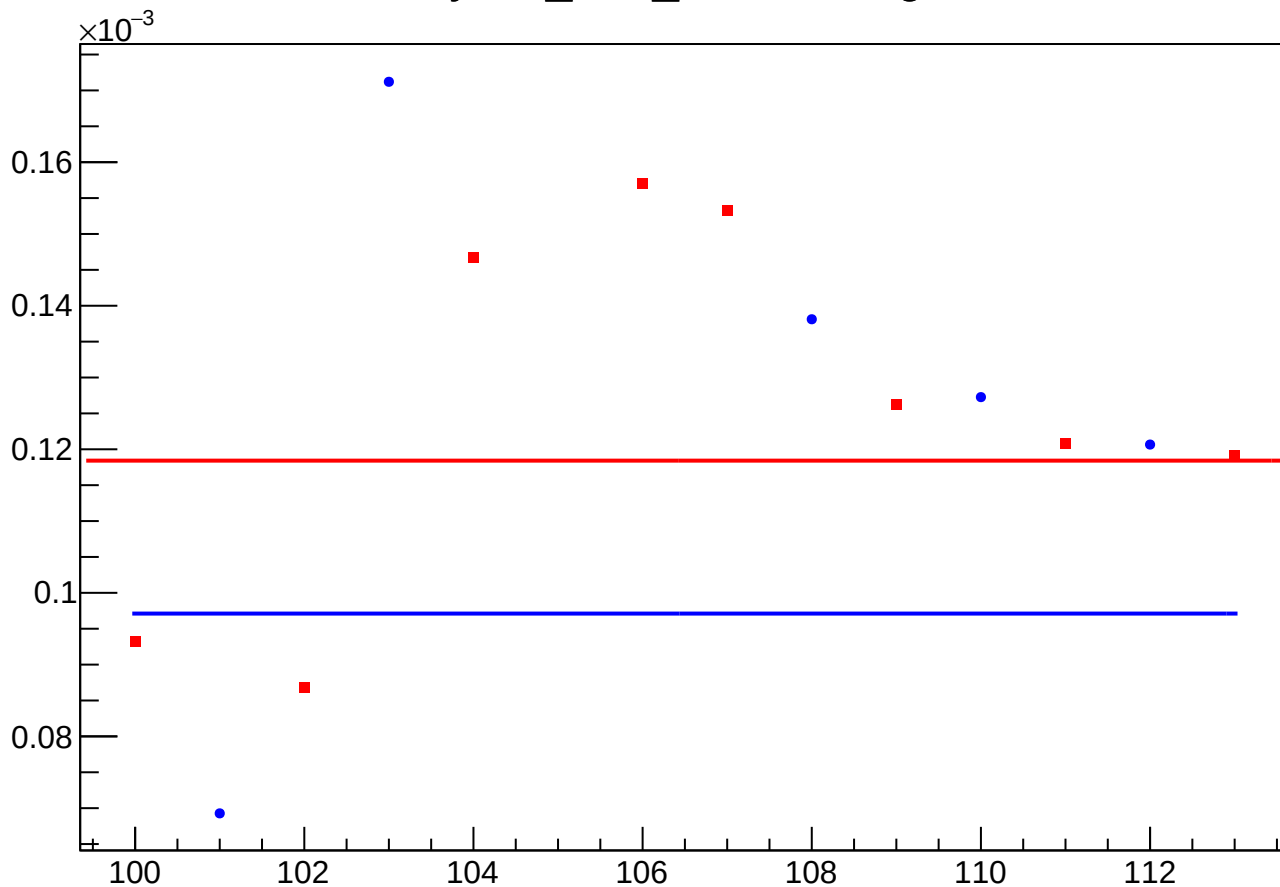
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.000  $\chi^2$ /NDF: 111512033560.1

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_atr1\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 582251.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 213114.1/7

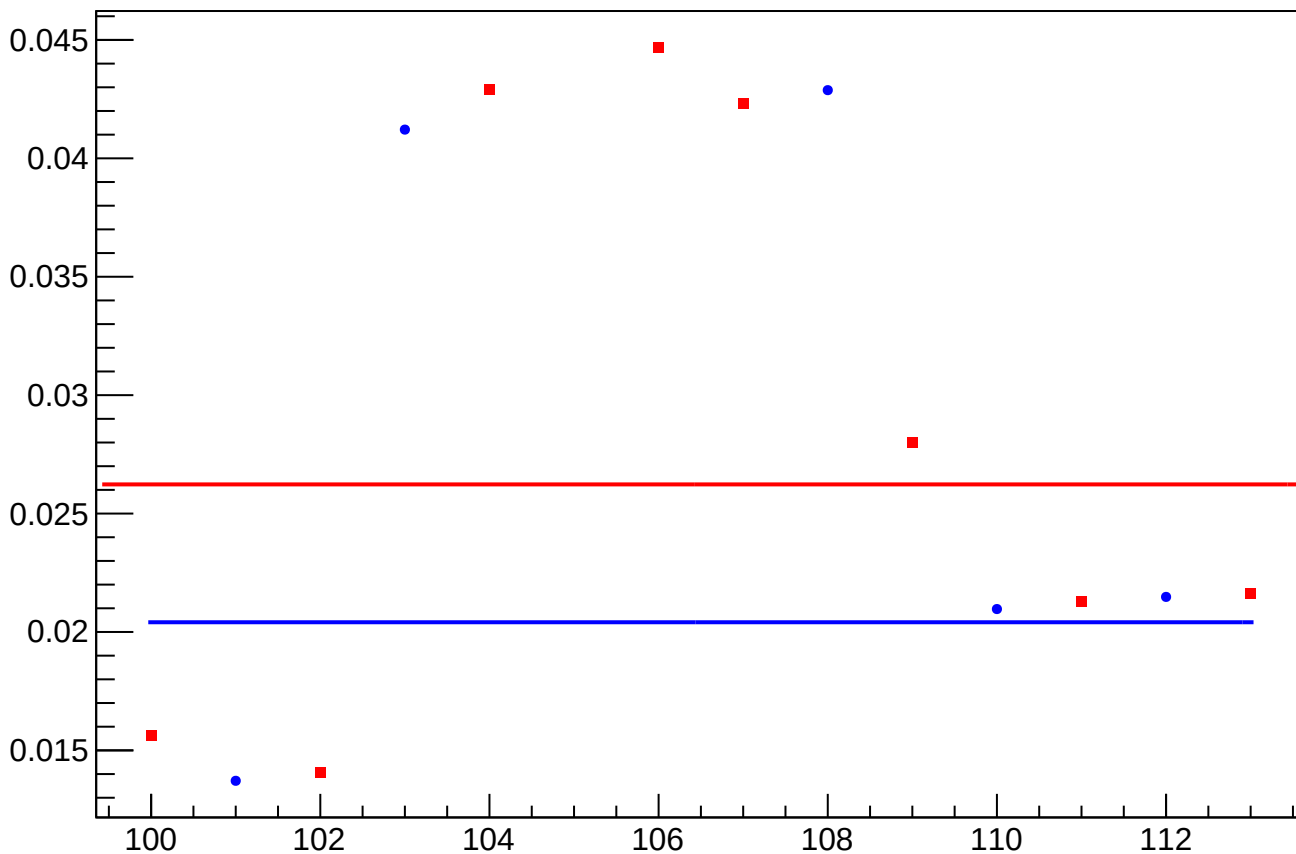
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 893472.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_atr2\_mean vs Slug



Right In: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 3020132036.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 3223257273.4/7

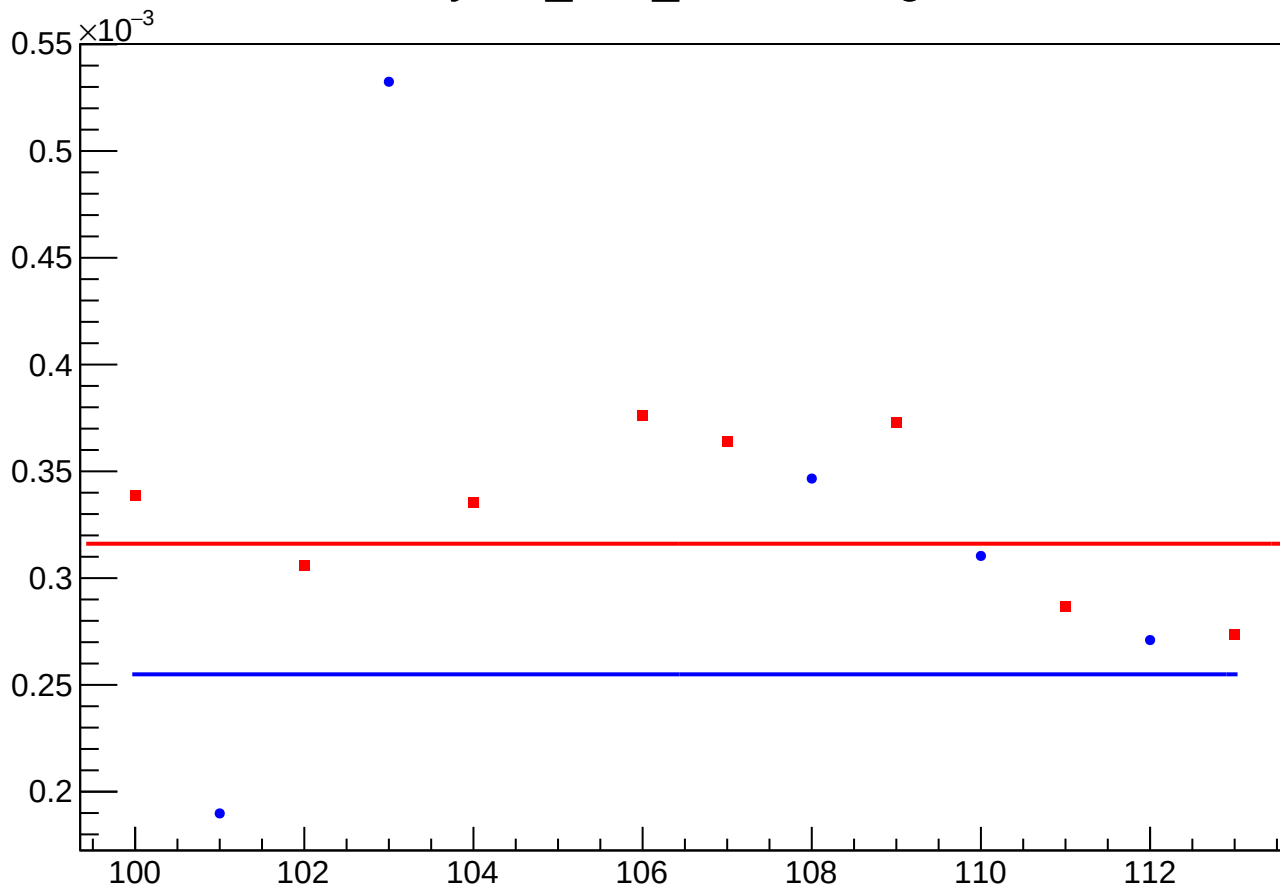
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 6742715358.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_atr2\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 515306.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 77268.2/7

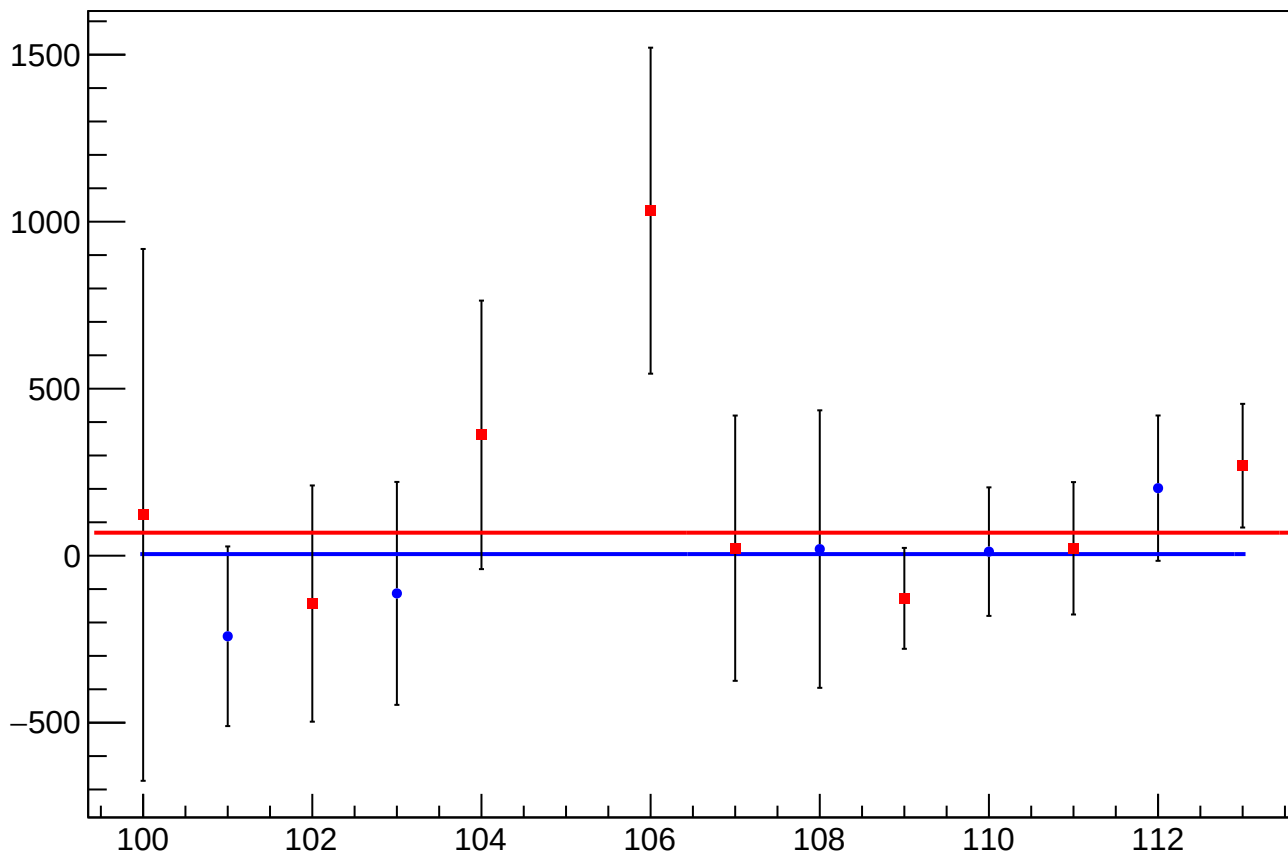
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 702815.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_mean vs Slug



Right In: 4.762+/-114.160  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 68.848+/-89.530  $\chi^2/\text{NDF}$ : 7.7/7

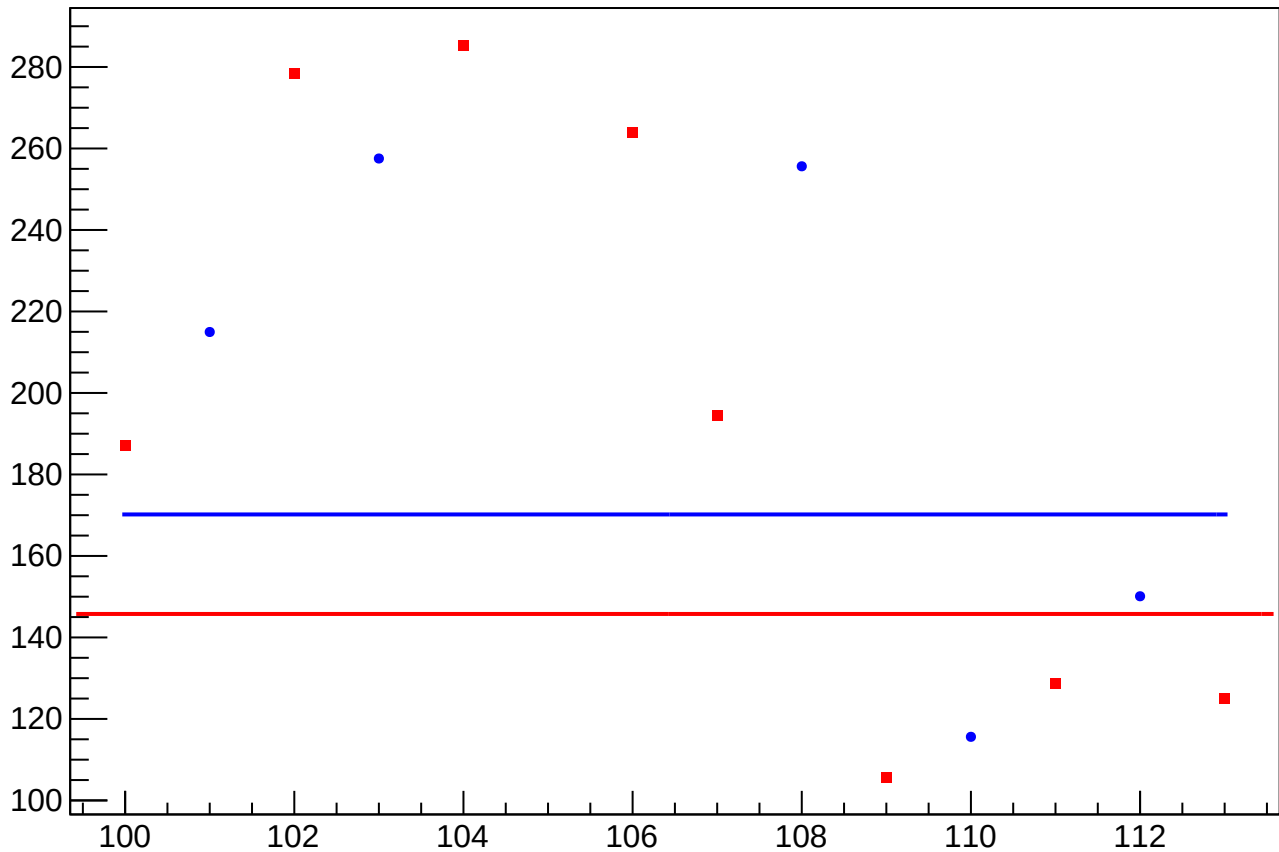
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 44.443+/-70.449  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_rms vs Slug



Right In: 170.186 $\pm$ 0.081  $\chi^2$ /NDF: 454971.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 145.761 $\pm$ 0.063  $\chi^2$ /NDF: 855824.9/7

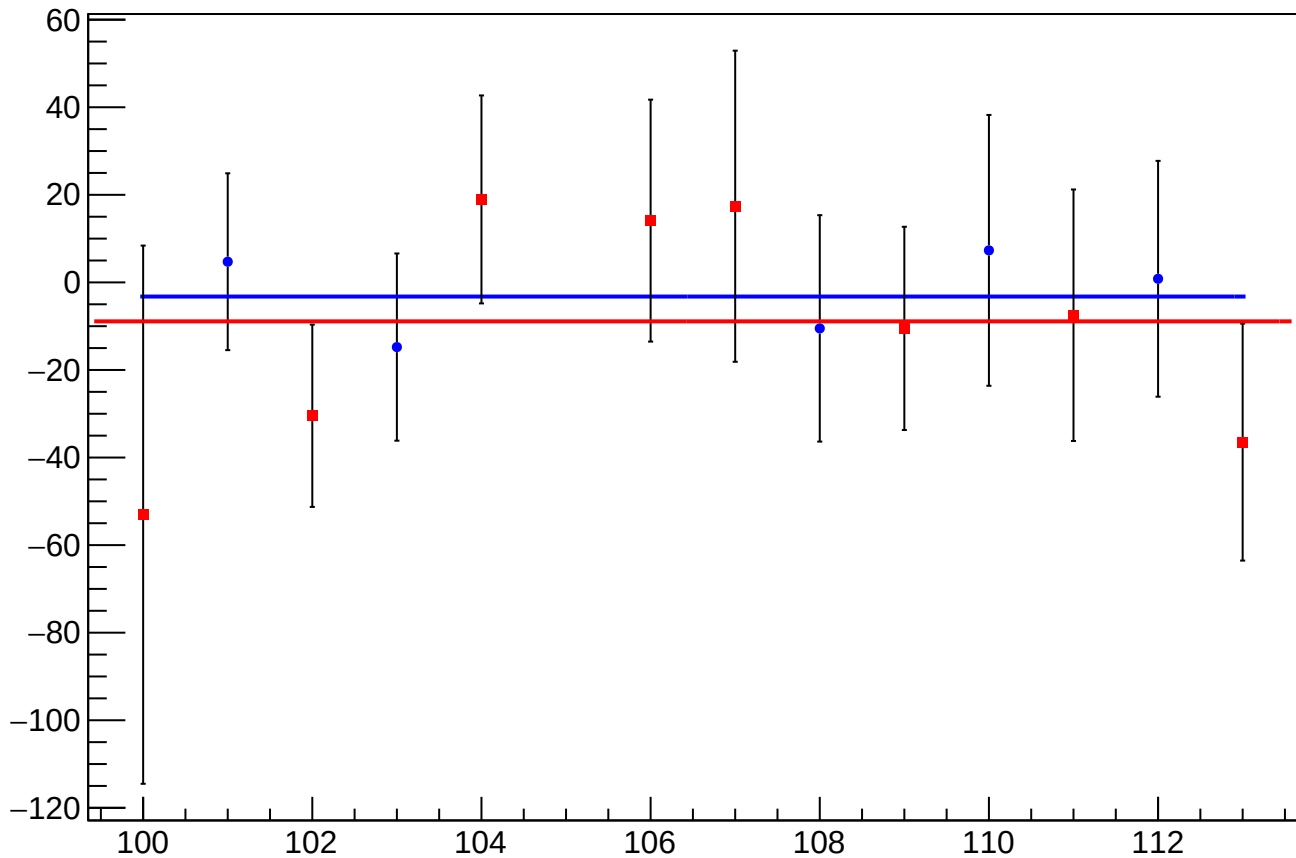
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 155.063 $\pm$ 0.050  $\chi^2$ /NDF: 1367479.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_an\_avg\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug



Right In: -3.232+/-10.808  $\chi^2/\text{NDF}$ : 0.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -8.898+/-9.587  $\chi^2/\text{NDF}$ : 5.2/7

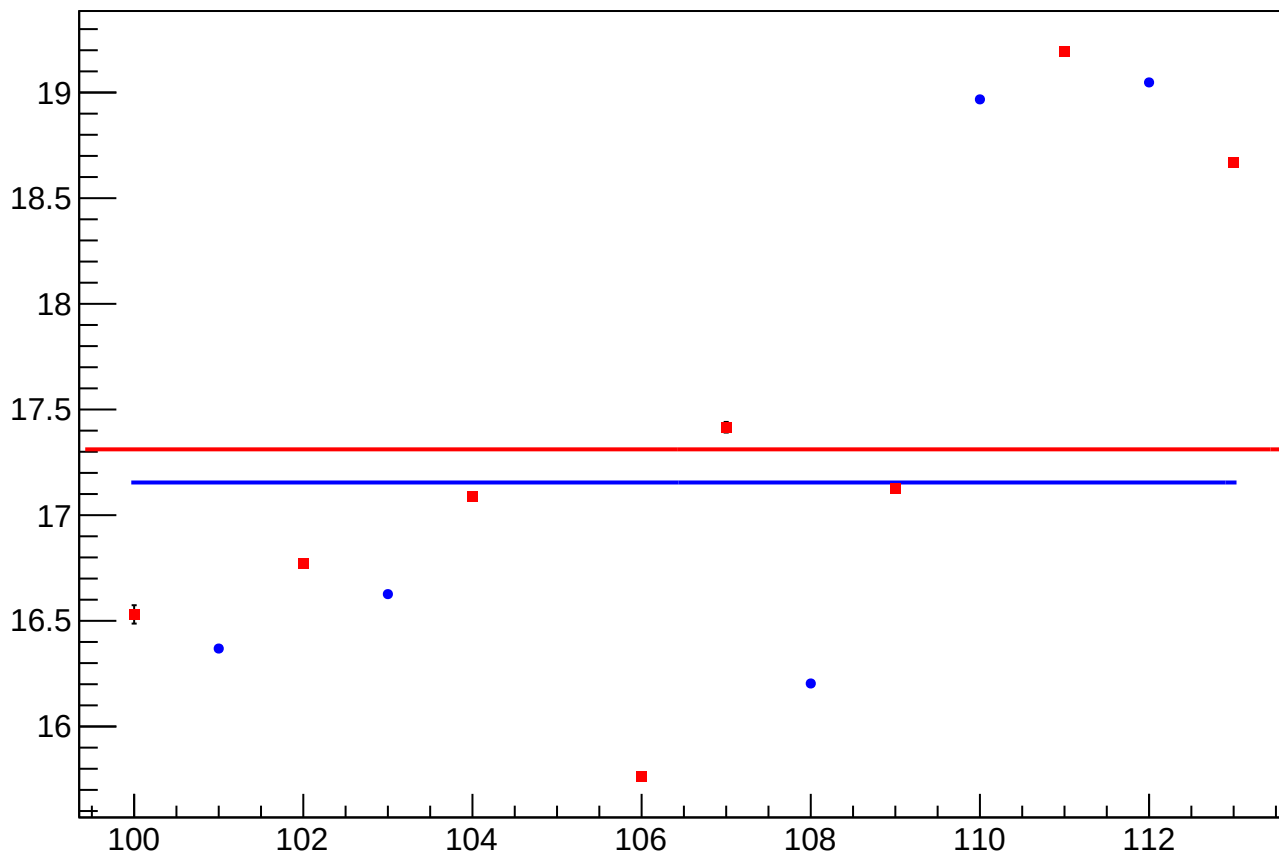
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.403+/-7.172  $\chi^2/\text{NDF}$ : 6.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_avg\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 17.155+/-0.008  $\chi^2/\text{NDF}$ : 23711.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.311+/-0.007  $\chi^2/\text{NDF}$ : 21863.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

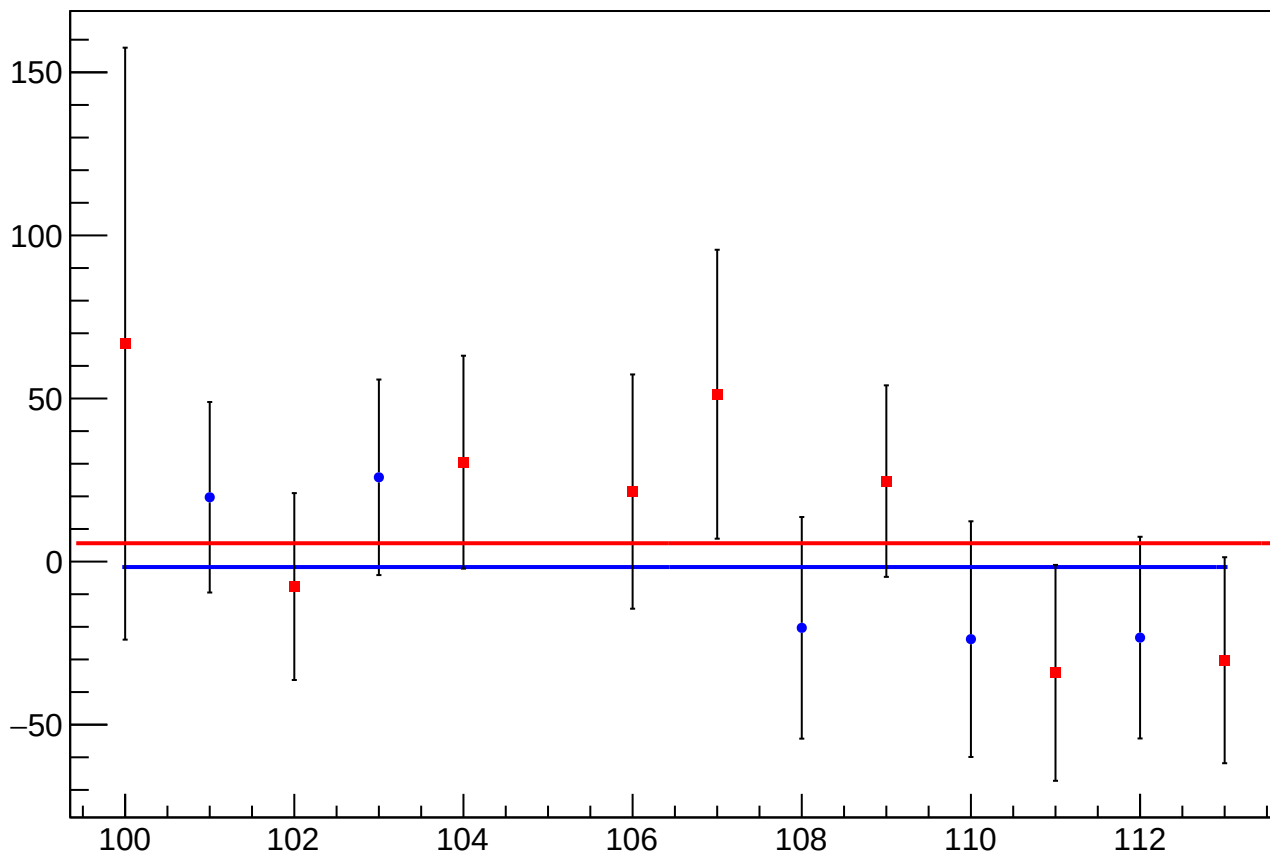
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.242+/-0.005  $\chi^2/\text{NDF}$ : 45809.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_bcm\_an\_avg\_bcm\_dg\_us\_agg\_dd\_mean vs Slug



Right In: -1.672+/-14.193  $\chi^2/\text{NDF}$ : 2.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.628+/-12.272  $\chi^2/\text{NDF}$ : 5.7/7

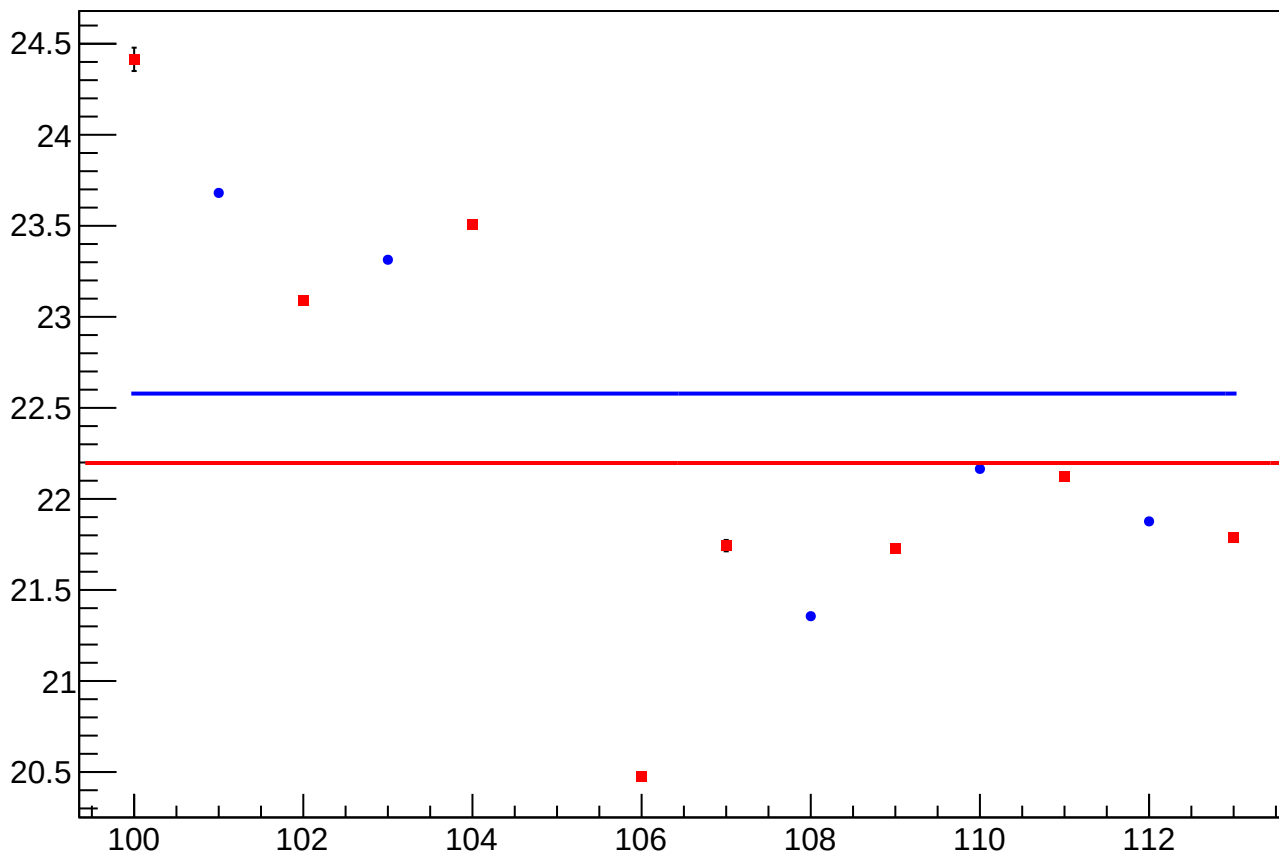
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.505+/-9.283  $\chi^2/\text{NDF}$ : 8.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_avg\_bcm\_dg\_us\_agg\_dd\_rms vs Slug



Right In: 22.579+/-0.010  $\chi^2/\text{NDF}$ : 7935.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.197+/-0.009  $\chi^2/\text{NDF}$ : 12032.9/7

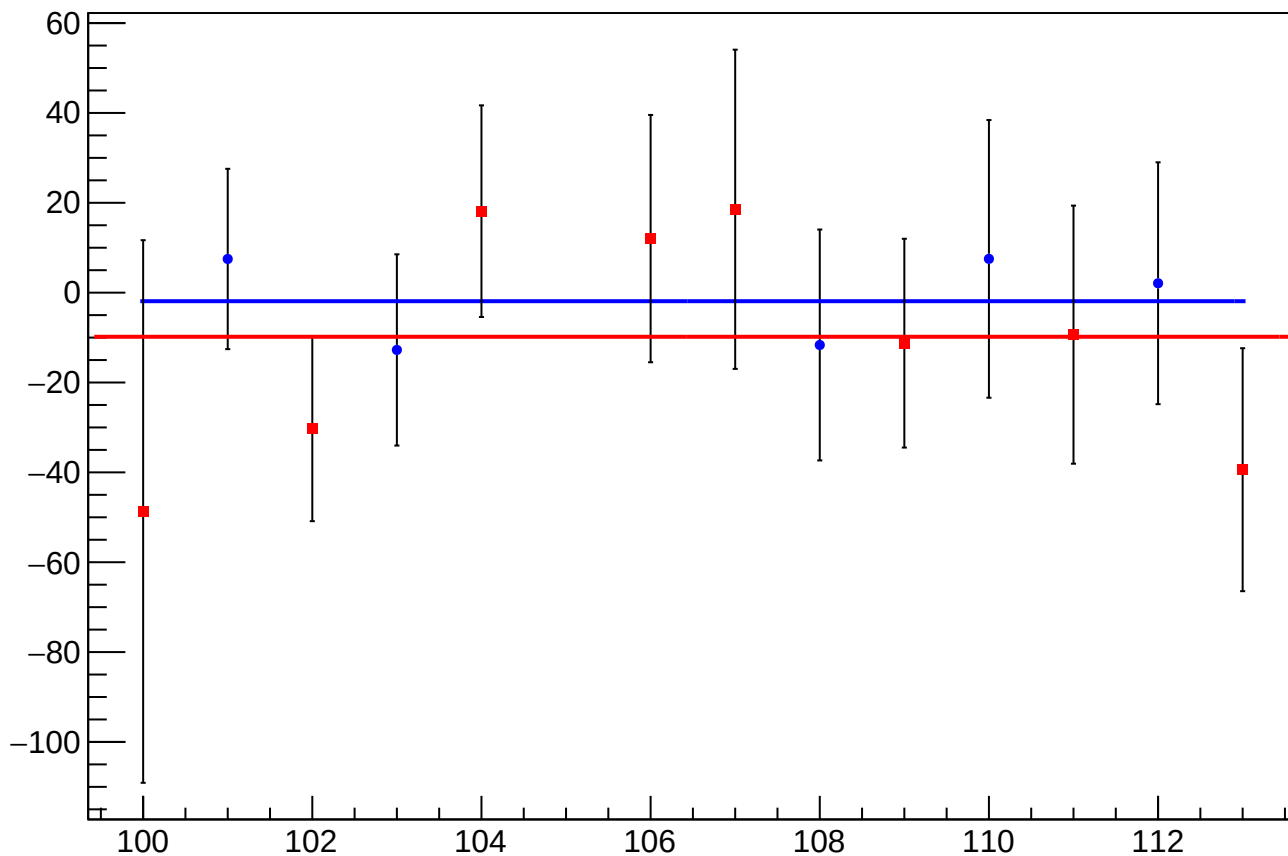
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.360+/-0.007  $\chi^2/\text{NDF}$ : 20794.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug



Right In: -1.901+/-10.764  $\chi^2/\text{NDF}$ : 0.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9.818+/-9.540  $\chi^2/\text{NDF}$ : 5.3/7

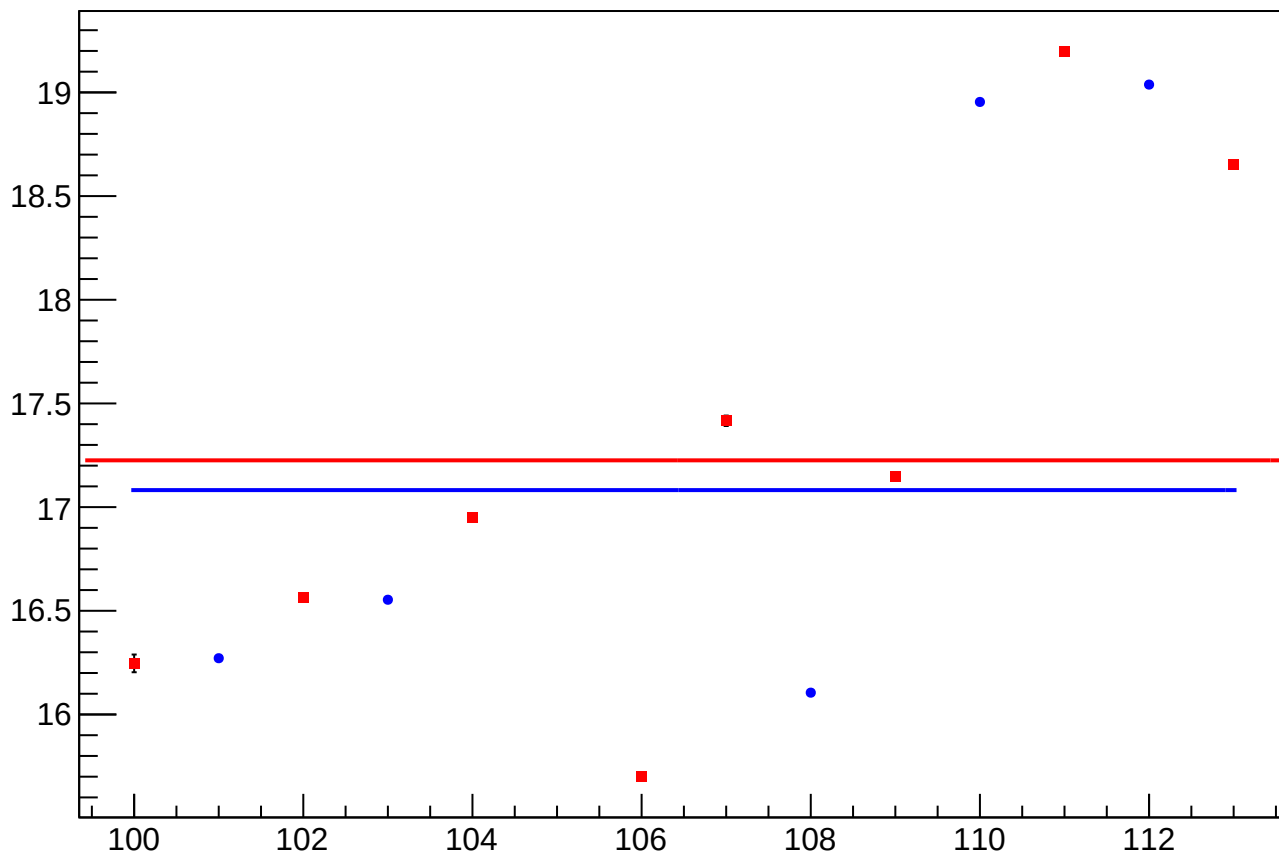
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.335+/-7.139  $\chi^2/\text{NDF}$ : 6.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 17.082 $\pm$ 0.008  $\chi^2$ /NDF: 25283.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.226 $\pm$ 0.007  $\chi^2$ /NDF: 24056.0/7

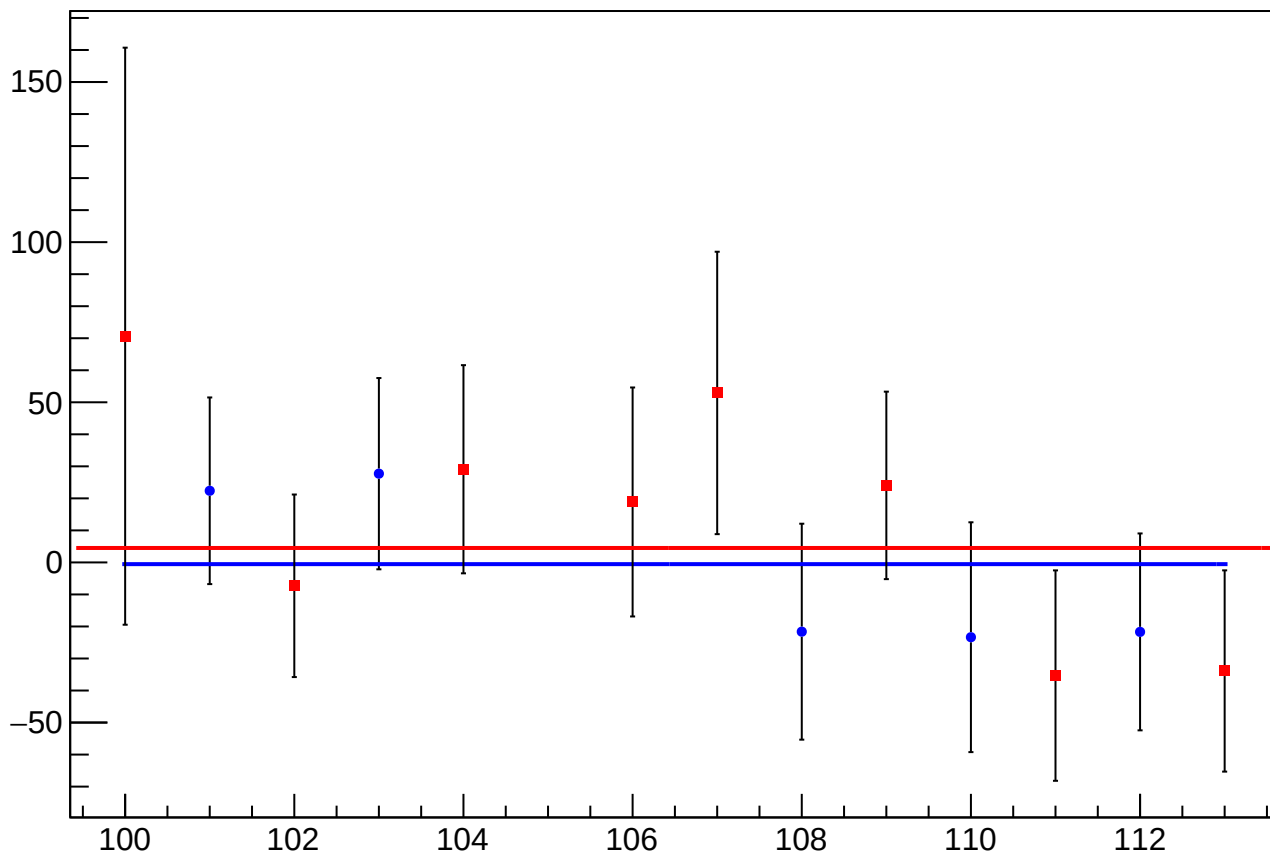
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.162 $\pm$ 0.005  $\chi^2$ /NDF: 49538.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_us\_agg\_dd\_mean vs Slug



Right In: -0.538+/-14.122  $\chi^2/\text{NDF}$ : 2.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.511+/-12.212  $\chi^2/\text{NDF}$ : 6.1/7

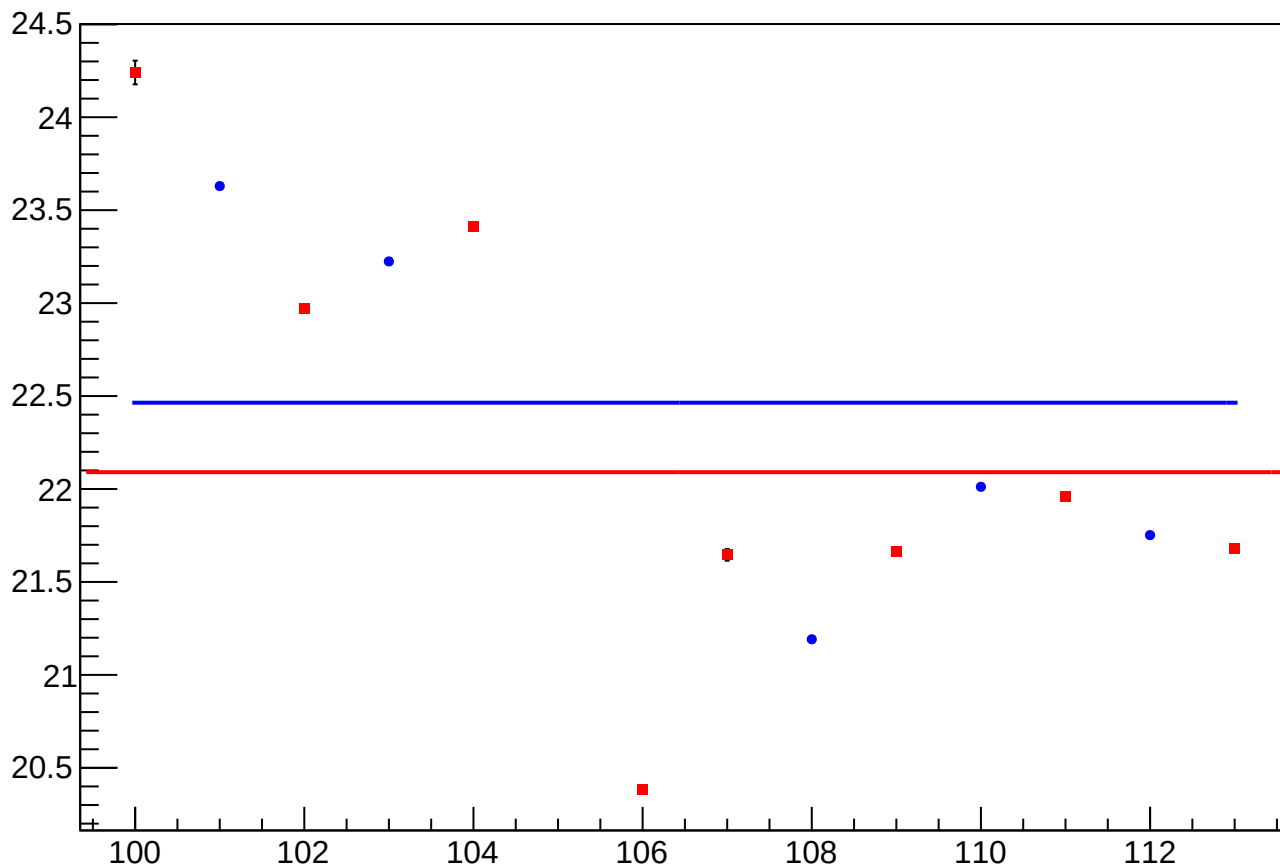
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.351+/-9.237  $\chi^2/\text{NDF}$ : 8.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_us\_agg\_dd\_rms vs Slug



Right In: 22.464 $\pm$ 0.010  $\chi^2$ /NDF: 8736.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.090 $\pm$ 0.009  $\chi^2$ /NDF: 11922.9/7

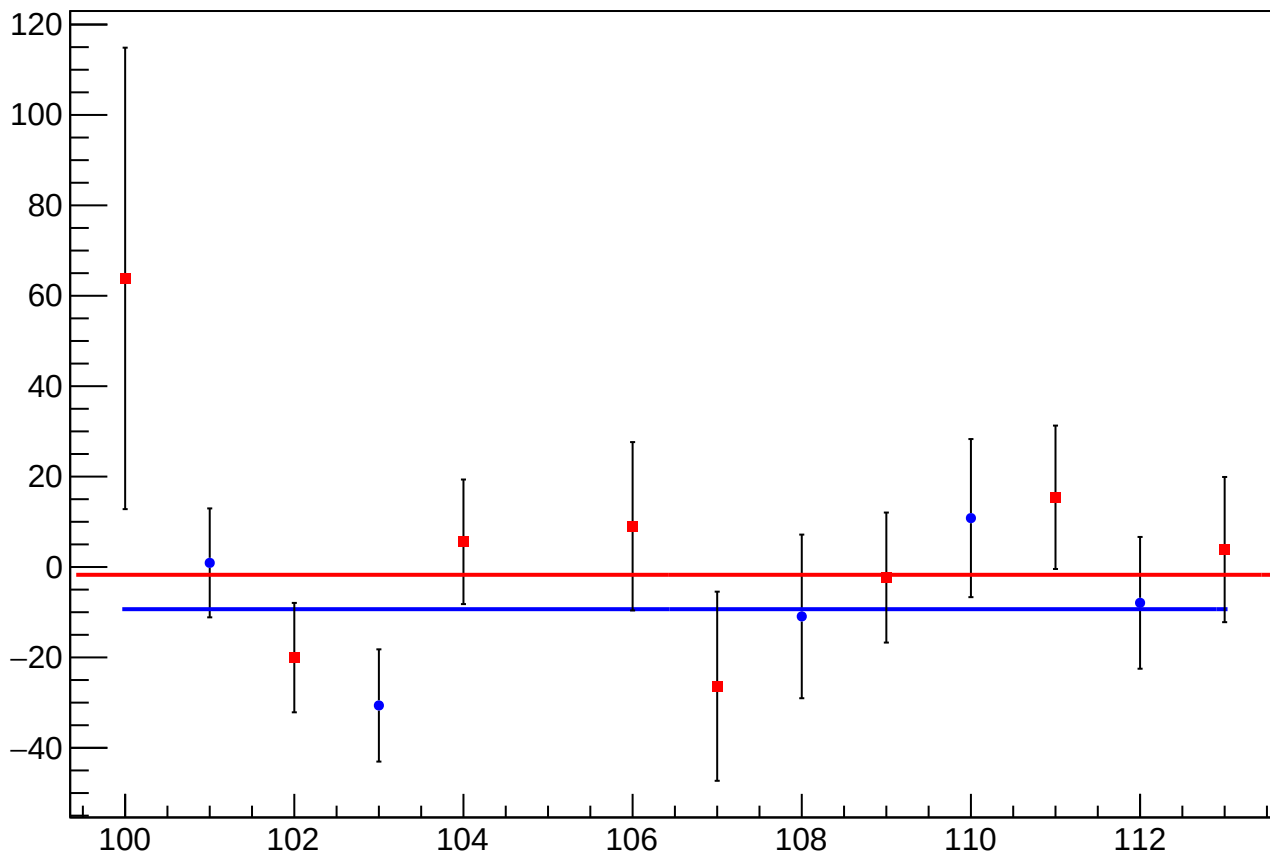
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 22.250 $\pm$ 0.007  $\chi^2$ /NDF: 21460.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_mean vs Slug



Right In: -9.328 $\pm$ 6.401  $\chi^2$ /NDF: 5.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.724 $\pm$ 5.741  $\chi^2$ /NDF: 7.2/7

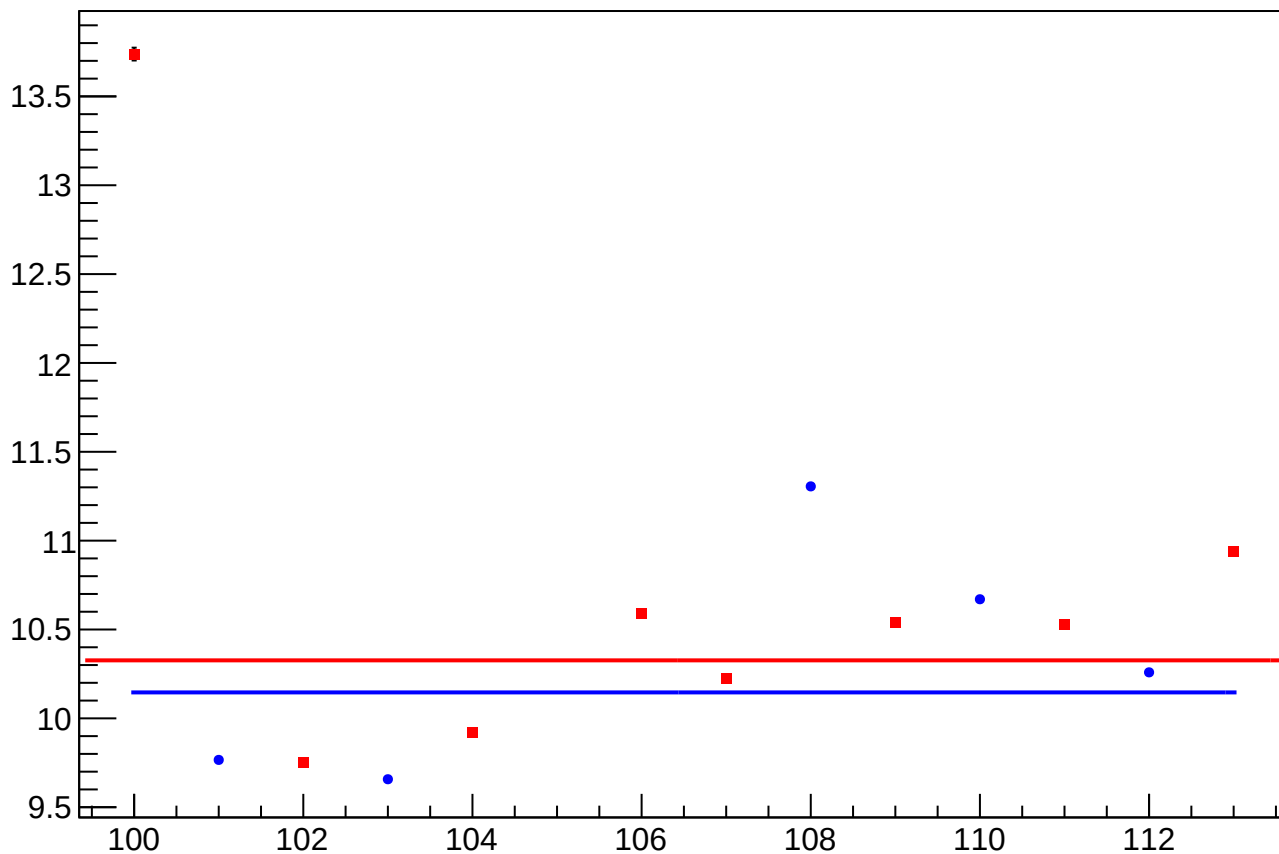
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -5.114 $\pm$ 4.274  $\chi^2$ /NDF: 13.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 10.146 $\pm$ 0.005  $\chi^2$ /NDF: 15210.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.326 $\pm$ 0.004  $\chi^2$ /NDF: 19294.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

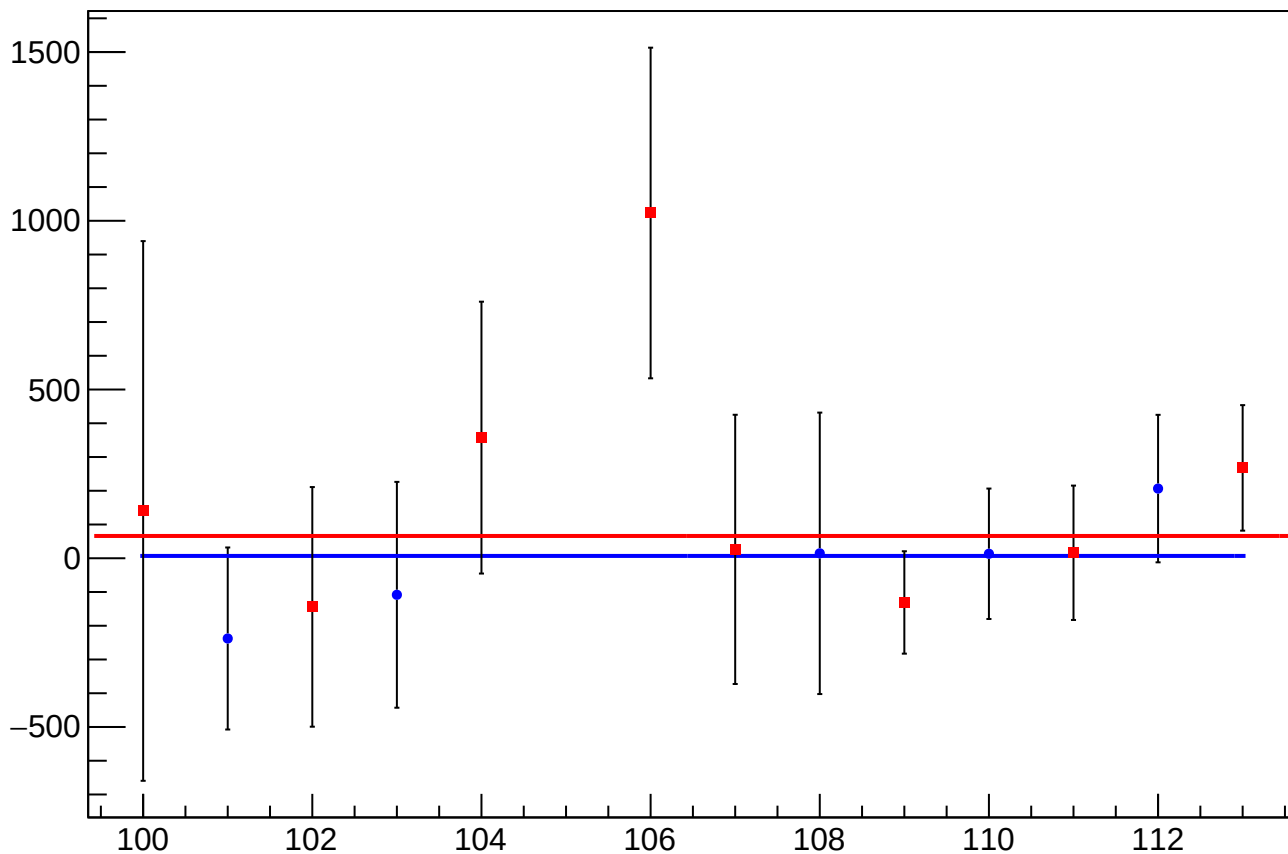
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.246 $\pm$ 0.003  $\chi^2$ /NDF: 35384.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_mean vs Slug



Right In: 6.914+/-114.597  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 66.056+/-89.914  $\chi^2/\text{NDF}$ : 7.6/7

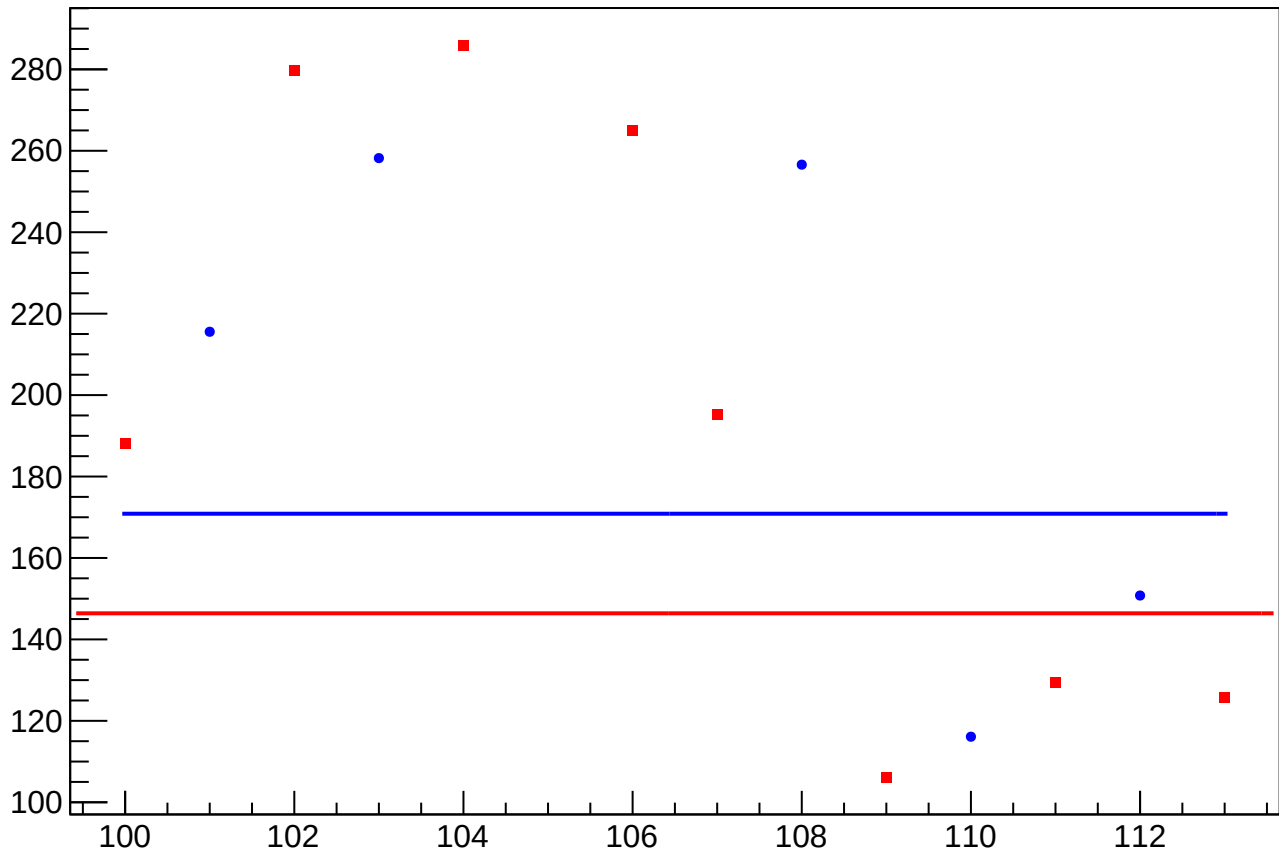
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.520+/-70.739  $\chi^2/\text{NDF}$ : 9.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_rms vs Slug



Right In: 170.866 $\pm$ 0.081  $\chi^2$ /NDF: 453191.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 146.407 $\pm$ 0.064  $\chi^2$ /NDF: 854143.4/7

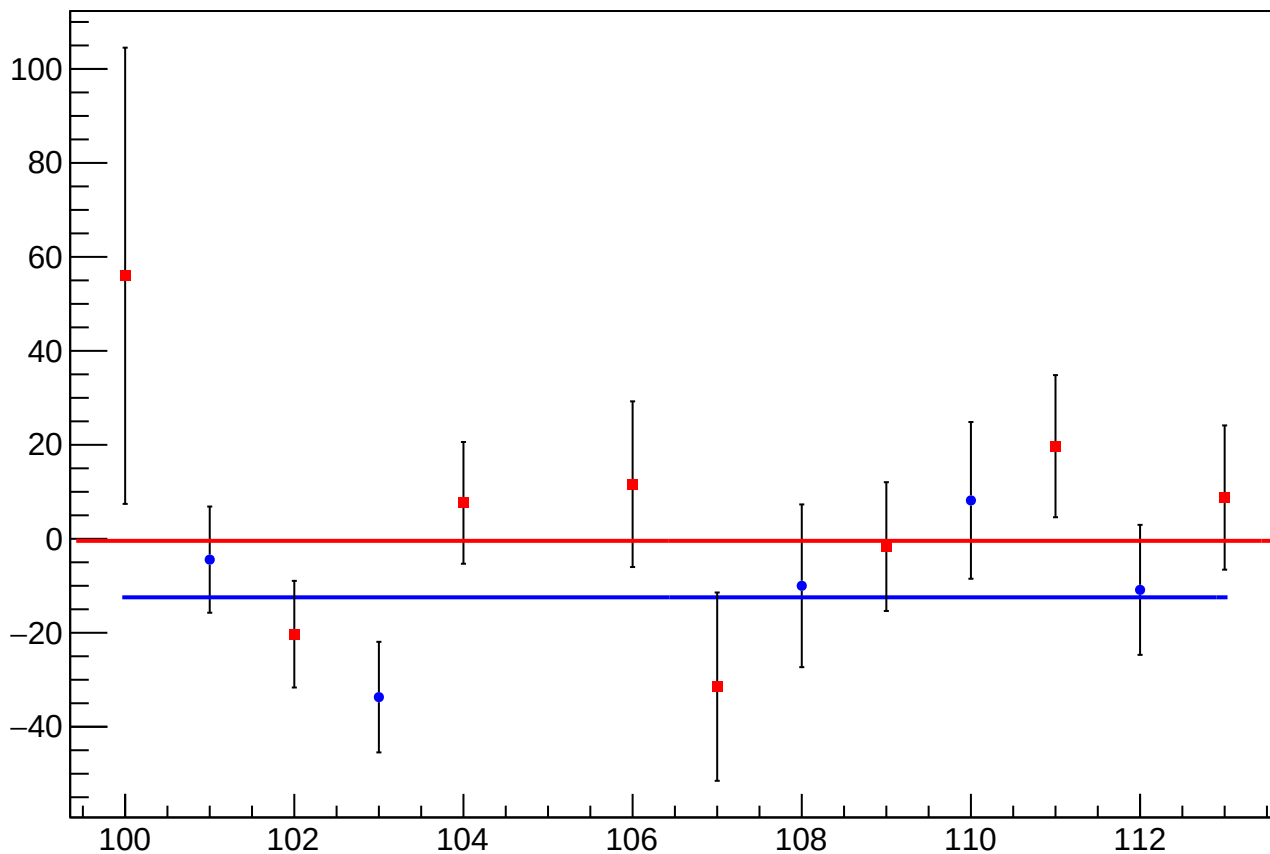
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 155.727 $\pm$ 0.050  $\chi^2$ /NDF: 1363726.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_mean vs Slug



Right In: -12.452 $\pm$ 6.063  $\chi^2$ /NDF: 5.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.431 $\pm$ 5.440  $\chi^2$ /NDF: 9.8/7

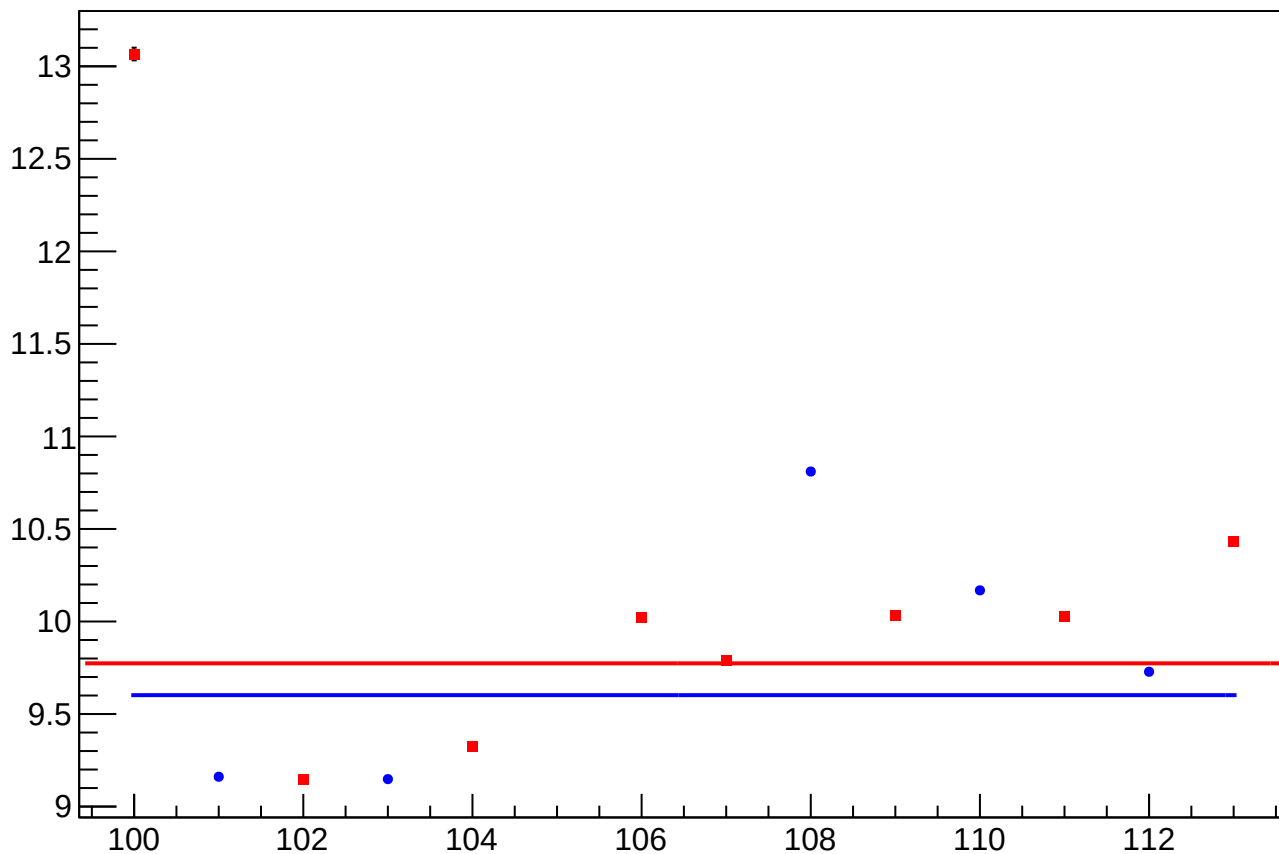
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -5.792 $\pm$ 4.049  $\chi^2$ /NDF: 17.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_rms vs Slug



Right In: 9.602 $\pm$ 0.004  $\chi^2$ /NDF: 18223.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 9.774 $\pm$ 0.004  $\chi^2$ /NDF: 23054.8/7

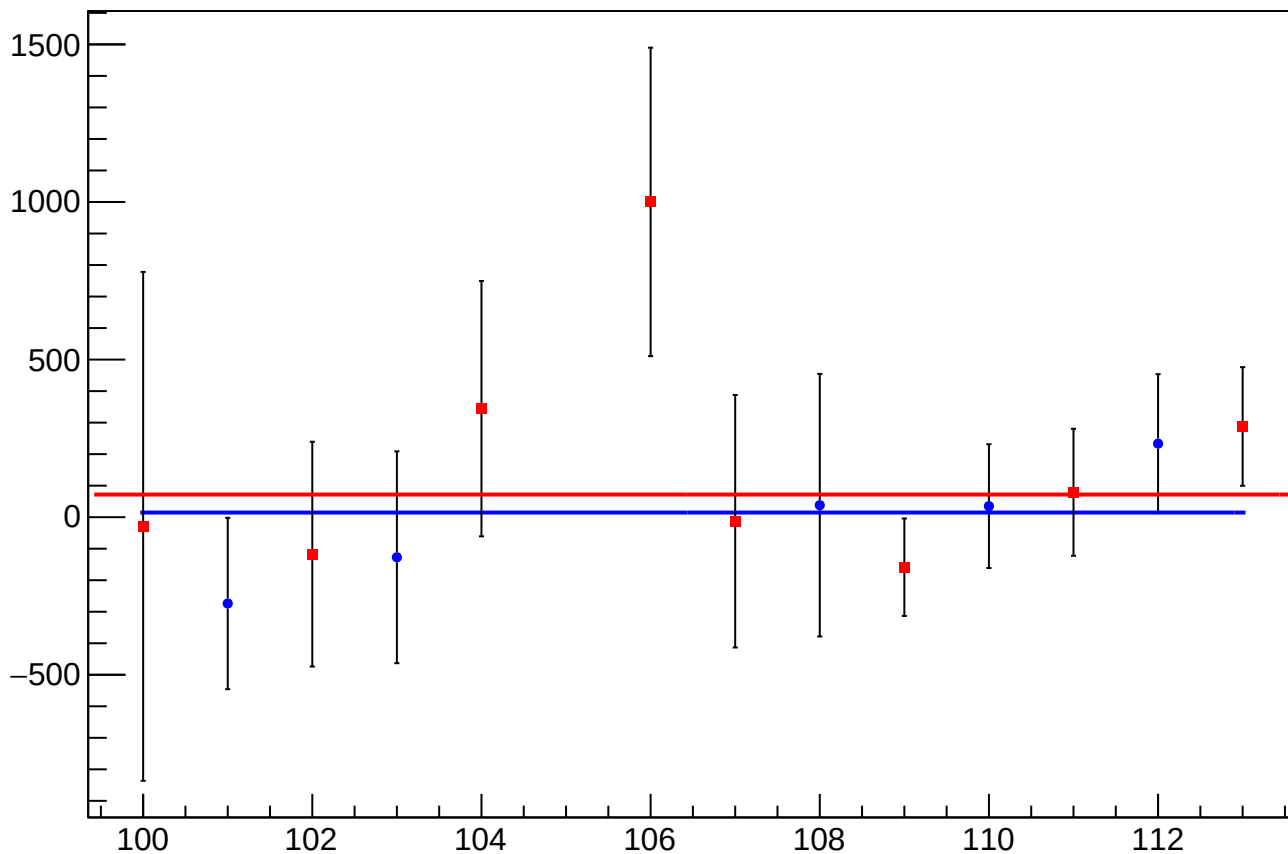
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.697 $\pm$ 0.003  $\chi^2$ /NDF: 42168.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_mean vs Slug



Right In: 14.727 $\pm$ 115.722  $\chi^2$ /NDF: 2.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 71.855 $\pm$ 91.072  $\chi^2$ /NDF: 7.9/7

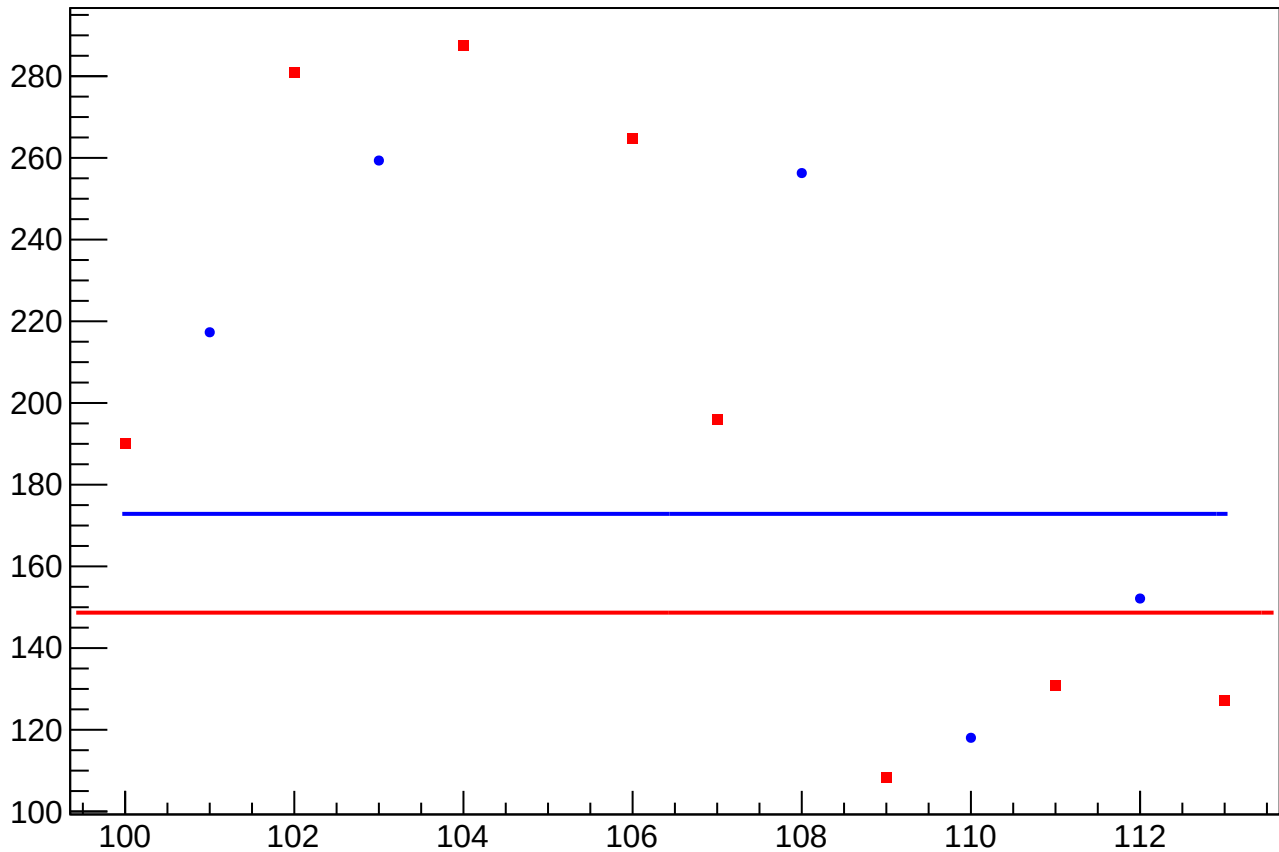
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 50.005 $\pm$ 71.567  $\chi^2$ /NDF: 10.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_rms vs Slug



Right In: 172.857+/-0.082  $\chi^2/\text{NDF}$ : 439780.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 148.675+/-0.064  $\chi^2/\text{NDF}$ : 832666.8/7

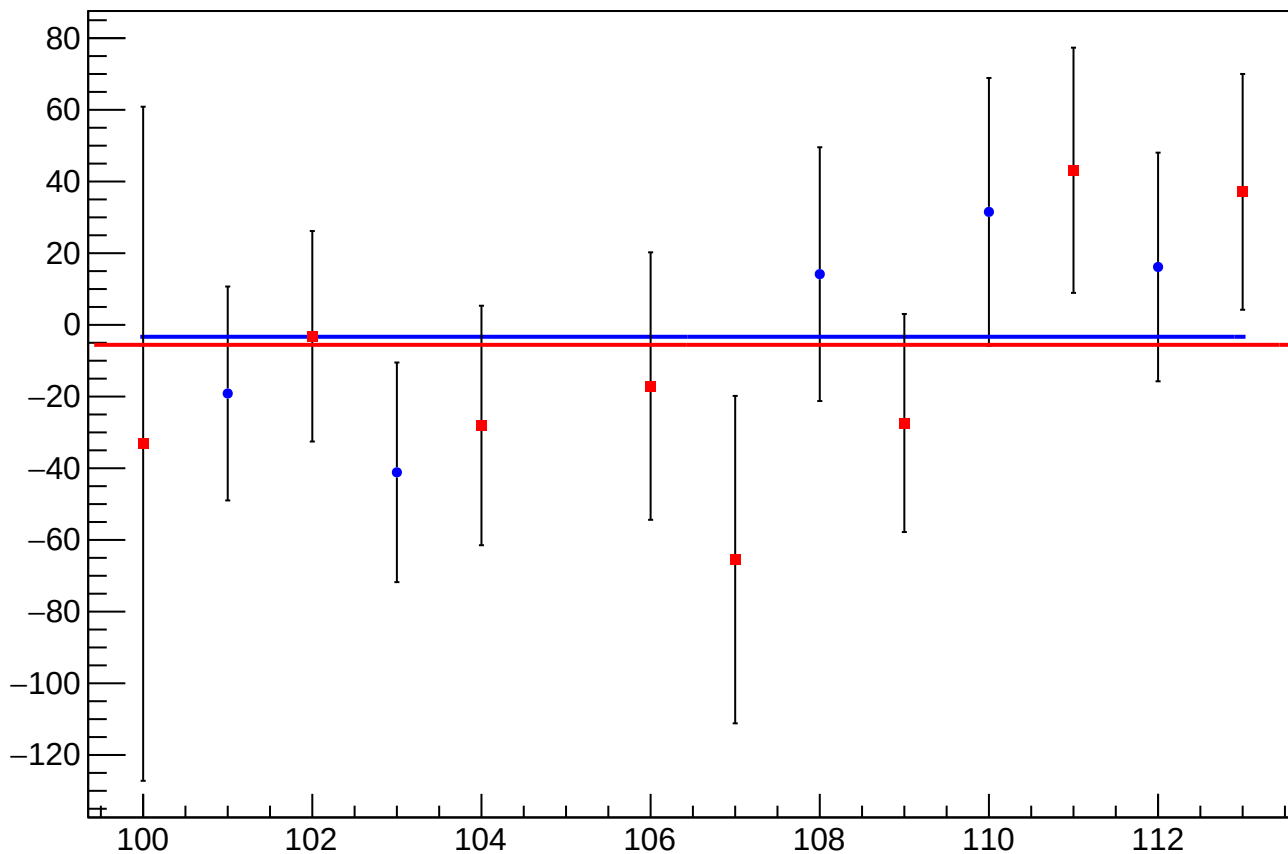
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 157.924+/-0.051  $\chi^2/\text{NDF}$ : 1326378.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_mean vs Slug



Right In: -3.318+/-14.609  $\chi^2/\text{NDF}$ : 3.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.568+/-12.674  $\chi^2/\text{NDF}$ : 6.6/7

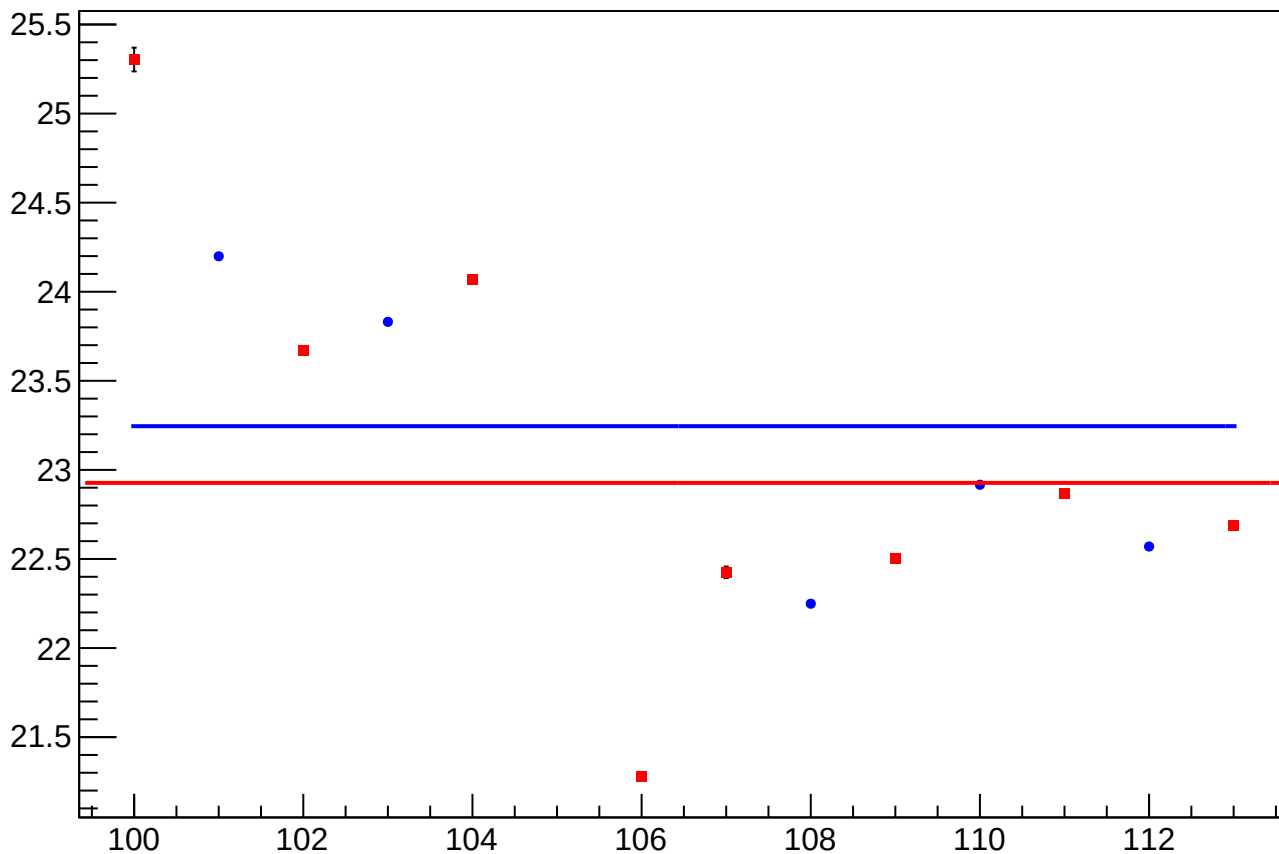
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.602+/-9.573  $\chi^2/\text{NDF}$ : 9.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 23.245 $\pm$ 0.010  $\chi^2$ /NDF: 5409.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.927 $\pm$ 0.009  $\chi^2$ /NDF: 9521.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

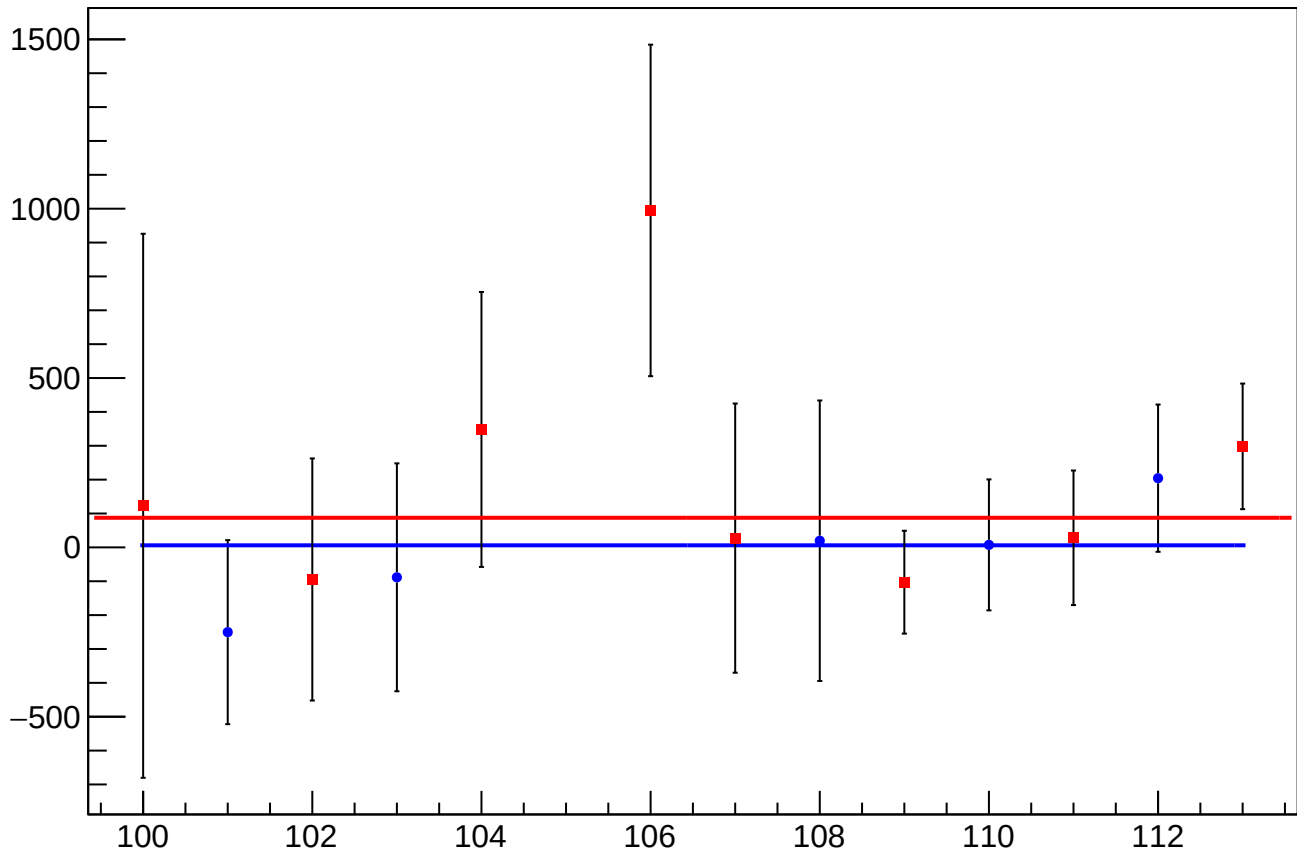
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.064 $\pm$ 0.007  $\chi^2$ /NDF: 15472.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_mean vs Slug



Right In: 6.110+/-114.620  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 87.426+/-89.890  $\chi^2/\text{NDF}$ : 7.1/7

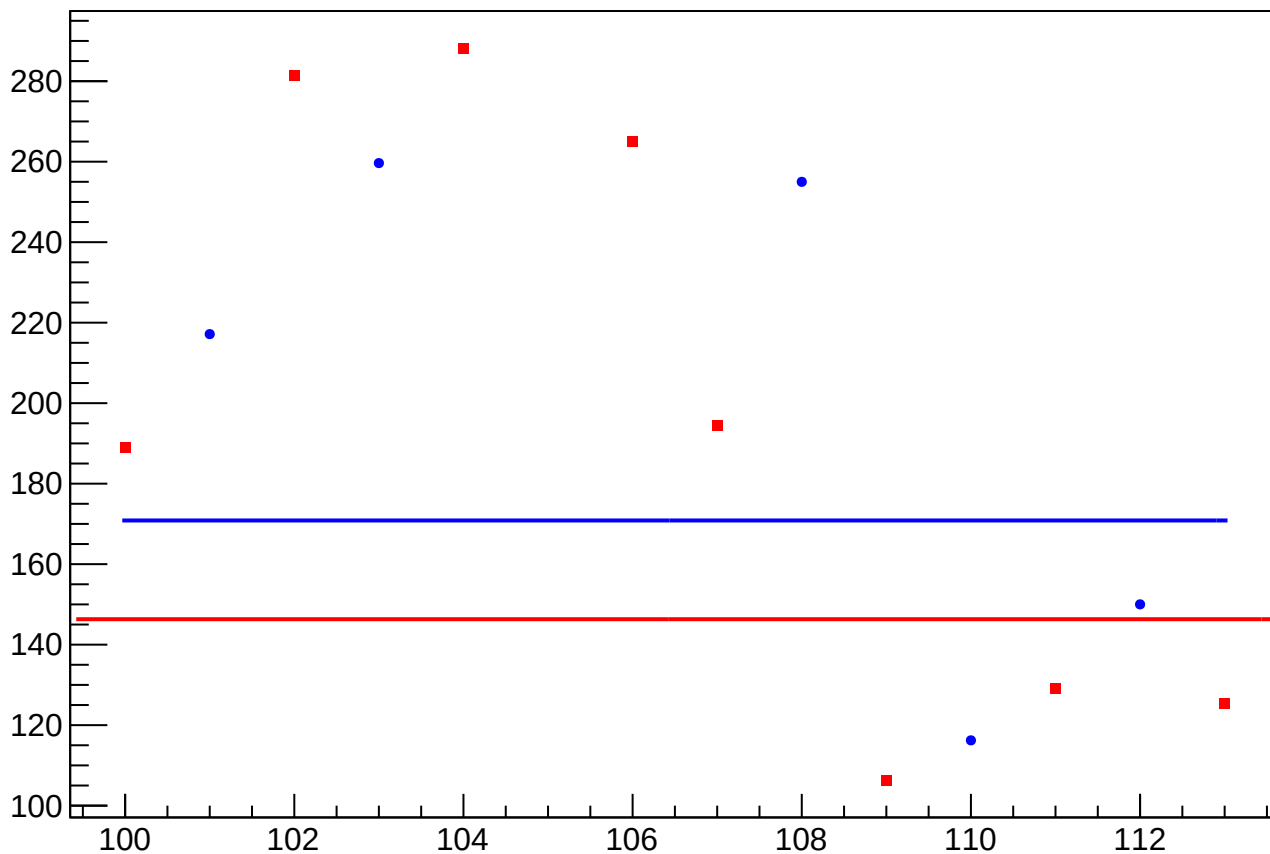
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.459+/-70.732  $\chi^2/\text{NDF}$ : 9.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_rms vs Slug



Right In: 170.854+/-0.081  $\chi^2/\text{NDF}$ : 457966.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 146.325+/-0.064  $\chi^2/\text{NDF}$ : 862166.6/7

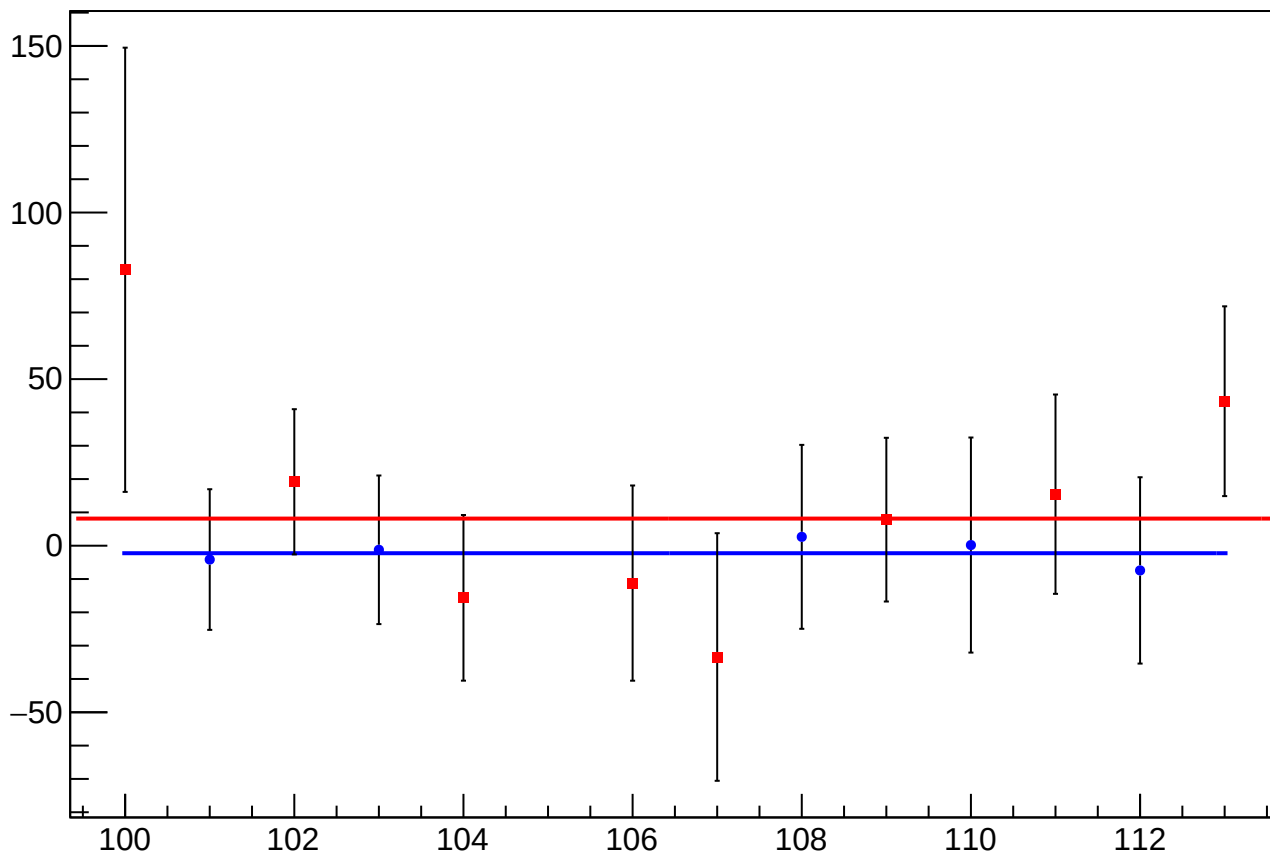
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 155.667+/-0.050  $\chi^2/\text{NDF}$ : 1376846.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_mean vs Slug



Right In: -2.255+/-11.318  $\chi^2/\text{NDF}$ : 0.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.139+/-10.079  $\chi^2/\text{NDF}$ : 5.7/7

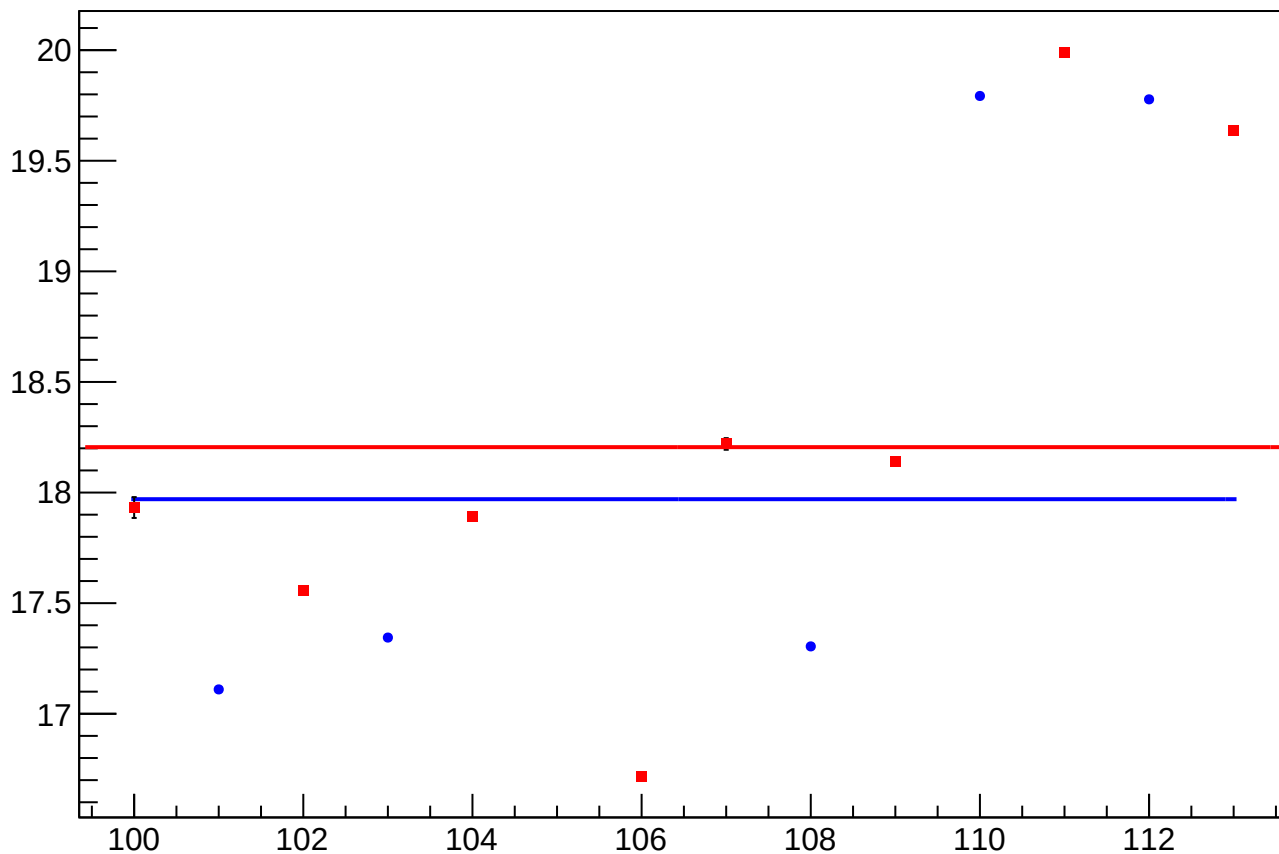
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.542+/-7.527  $\chi^2/\text{NDF}$ : 6.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 17.970 $\pm$ 0.008  $\chi^2$ /NDF: 20790.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18.205 $\pm$ 0.007  $\chi^2$ /NDF: 19470.3/7

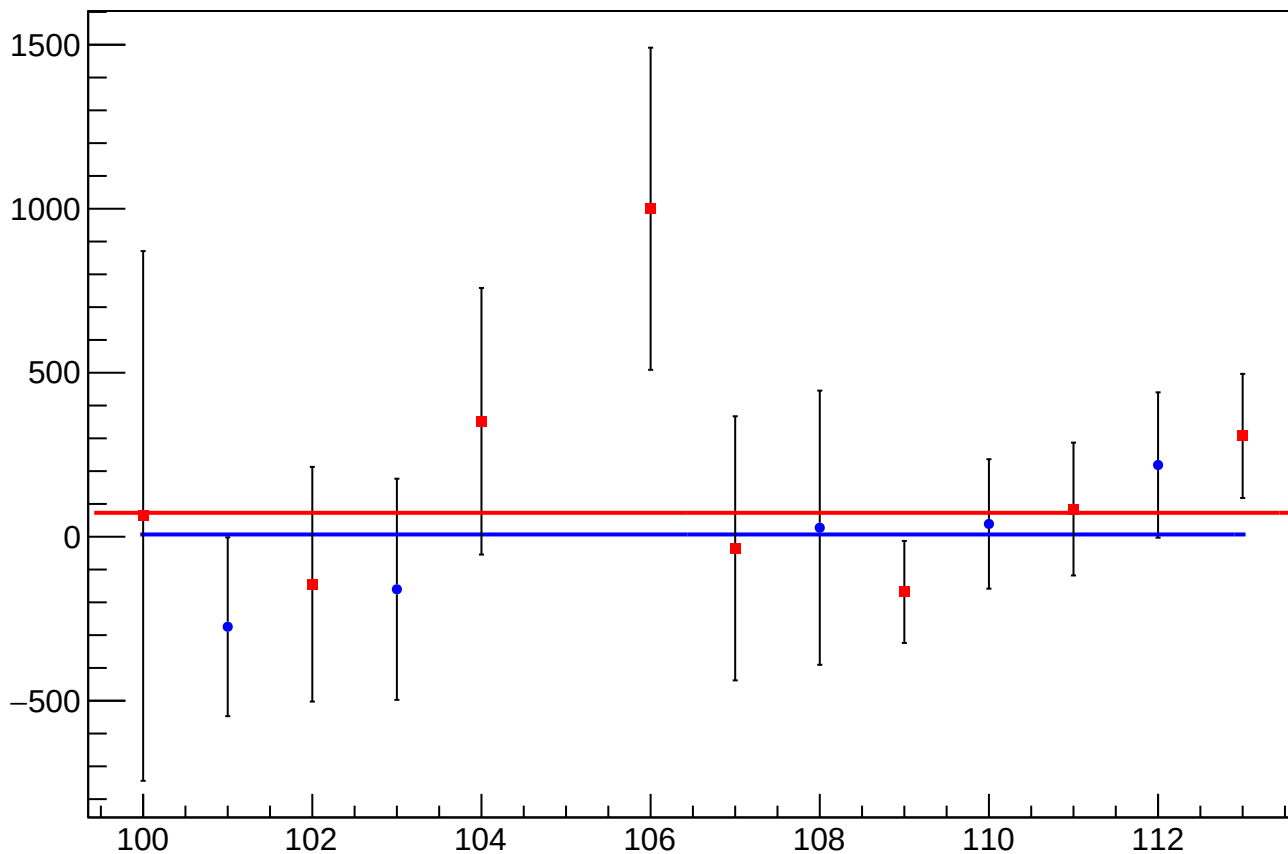
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.101 $\pm$ 0.005  $\chi^2$ /NDF: 40742.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_mean vs Slug



Right In: 6.920 $\pm$ 116.225  $\chi^2/\text{NDF}$ : 2.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 72.973 $\pm$ 91.519  $\chi^2/\text{NDF}$ : 8.4/7

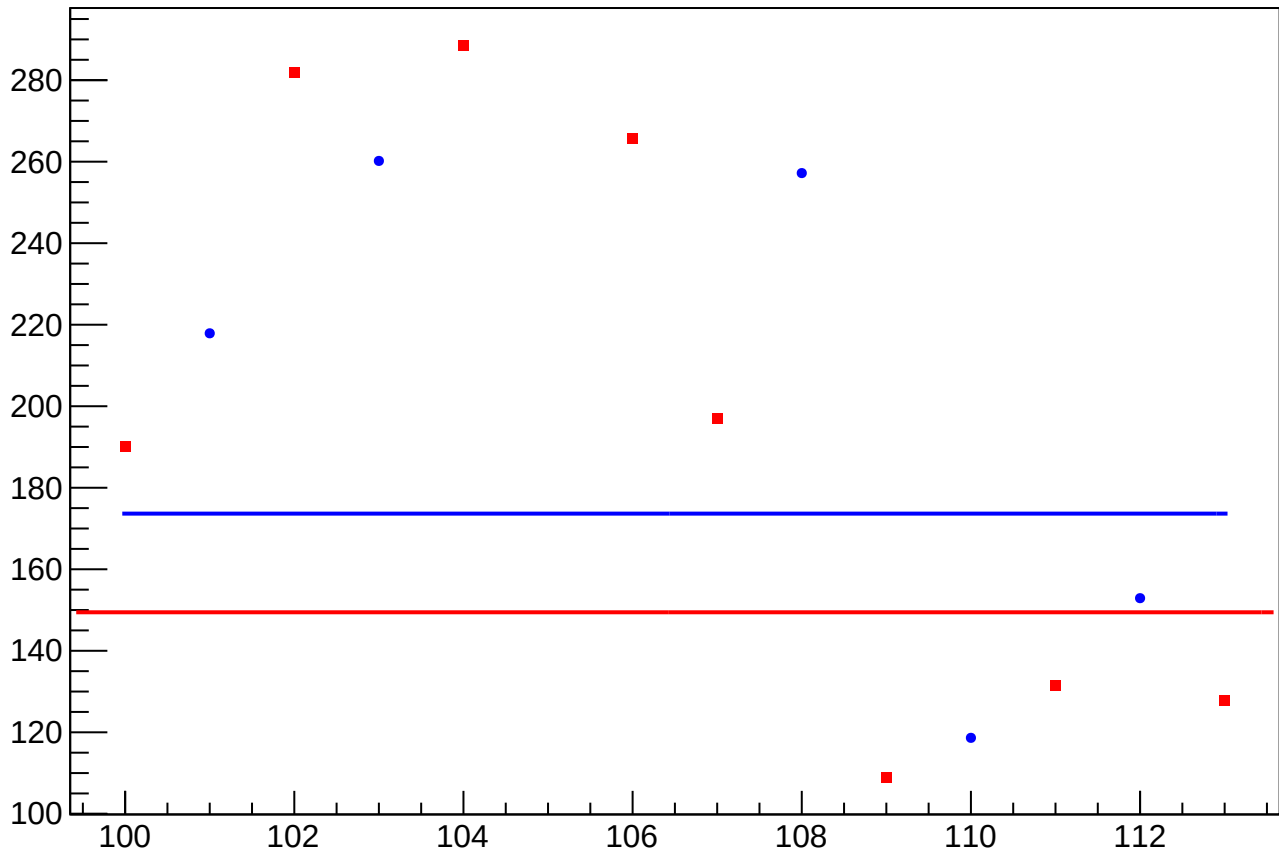
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.692 $\pm$ 71.903  $\chi^2/\text{NDF}$ : 10.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_rms vs Slug



Right In: 173.654 $\pm$ 0.082  $\chi^2$ /NDF: 437263.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 149.447 $\pm$ 0.065  $\chi^2$ /NDF: 829649.7/7

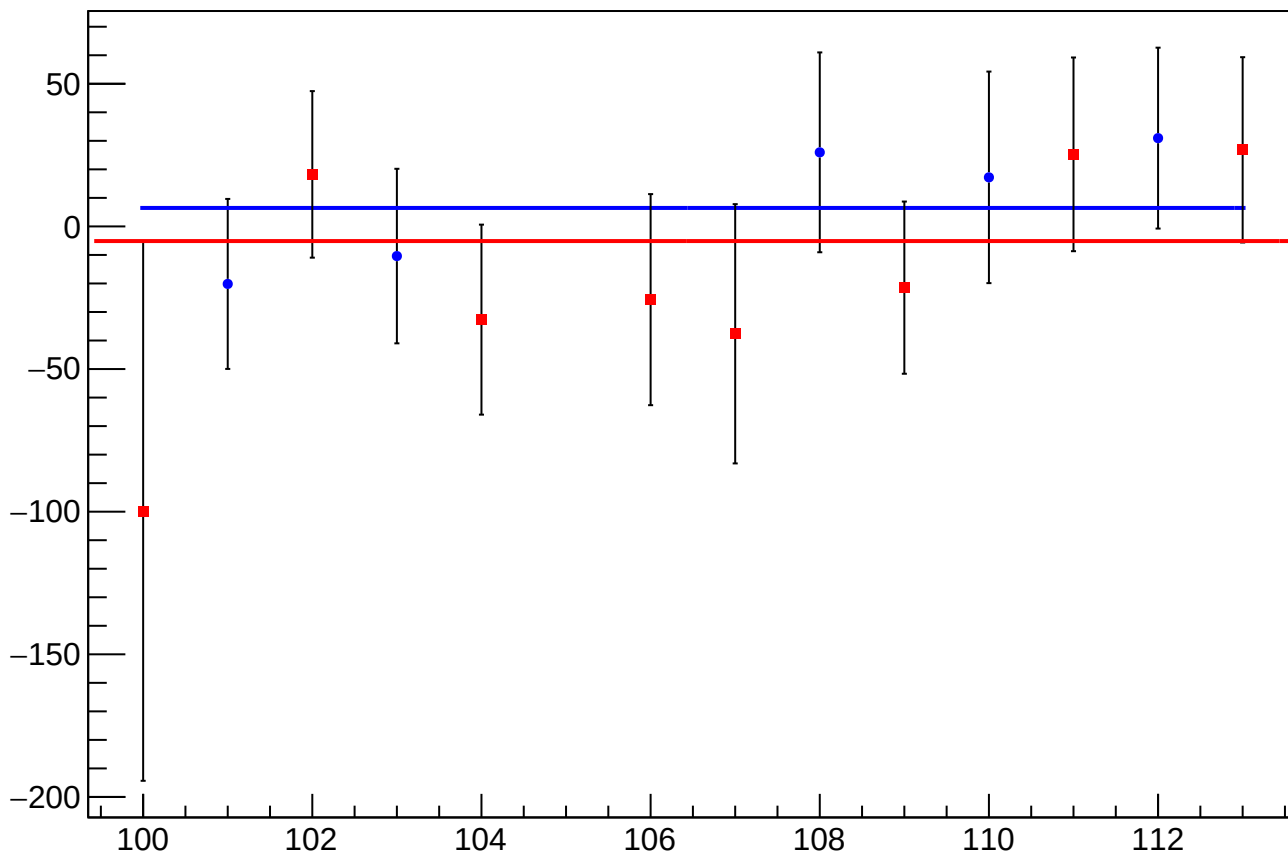
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 158.712 $\pm$ 0.051  $\chi^2$ /NDF: 1320465.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_mean vs Slug



Right In: 6.477 $\pm$ 14.537  $\chi^2$ /NDF: 2.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -5.134 $\pm$ 12.584  $\chi^2$ /NDF: 5.2/7

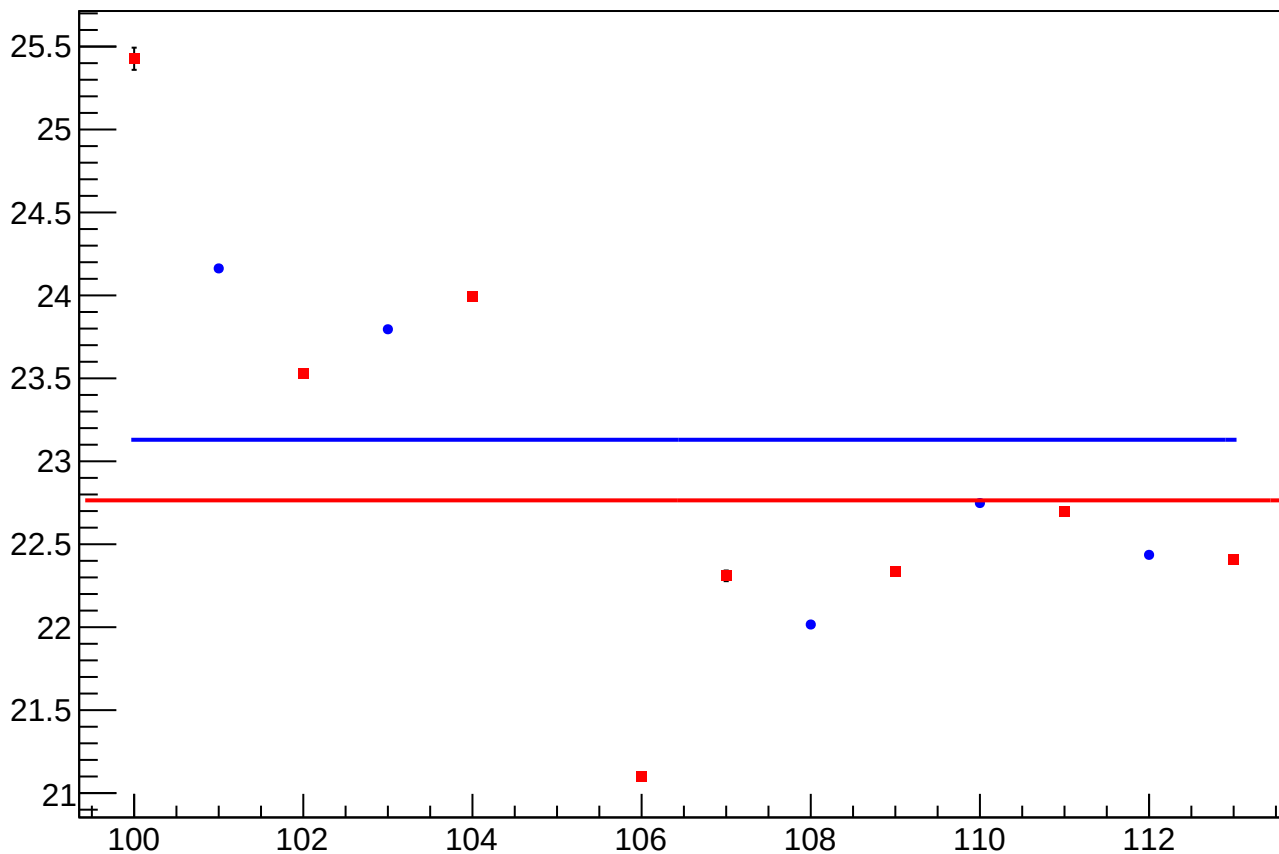
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.161 $\pm$ 9.514  $\chi^2$ /NDF: 7.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_rms vs Slug



Right In: 23.130 $\pm$ 0.010  $\chi^2$ /NDF: 6542.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.765 $\pm$ 0.009  $\chi^2$ /NDF: 10582.6/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

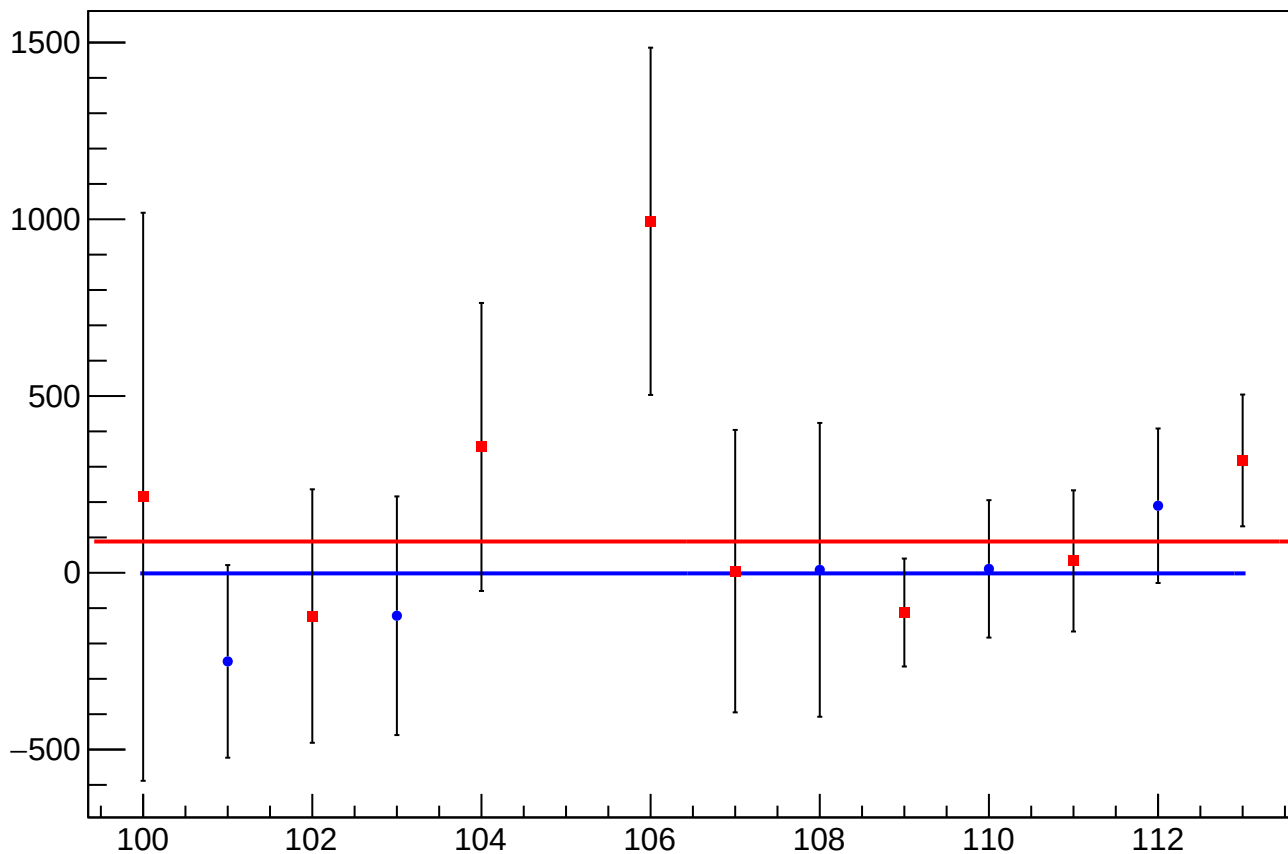
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 22.921 $\pm$ 0.007  $\chi^2$ /NDF: 17847.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_mean vs Slug



Right In: -1.708+/-115.124  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 88.493+/-90.338  $\chi^2/\text{NDF}$ : 7.6/7

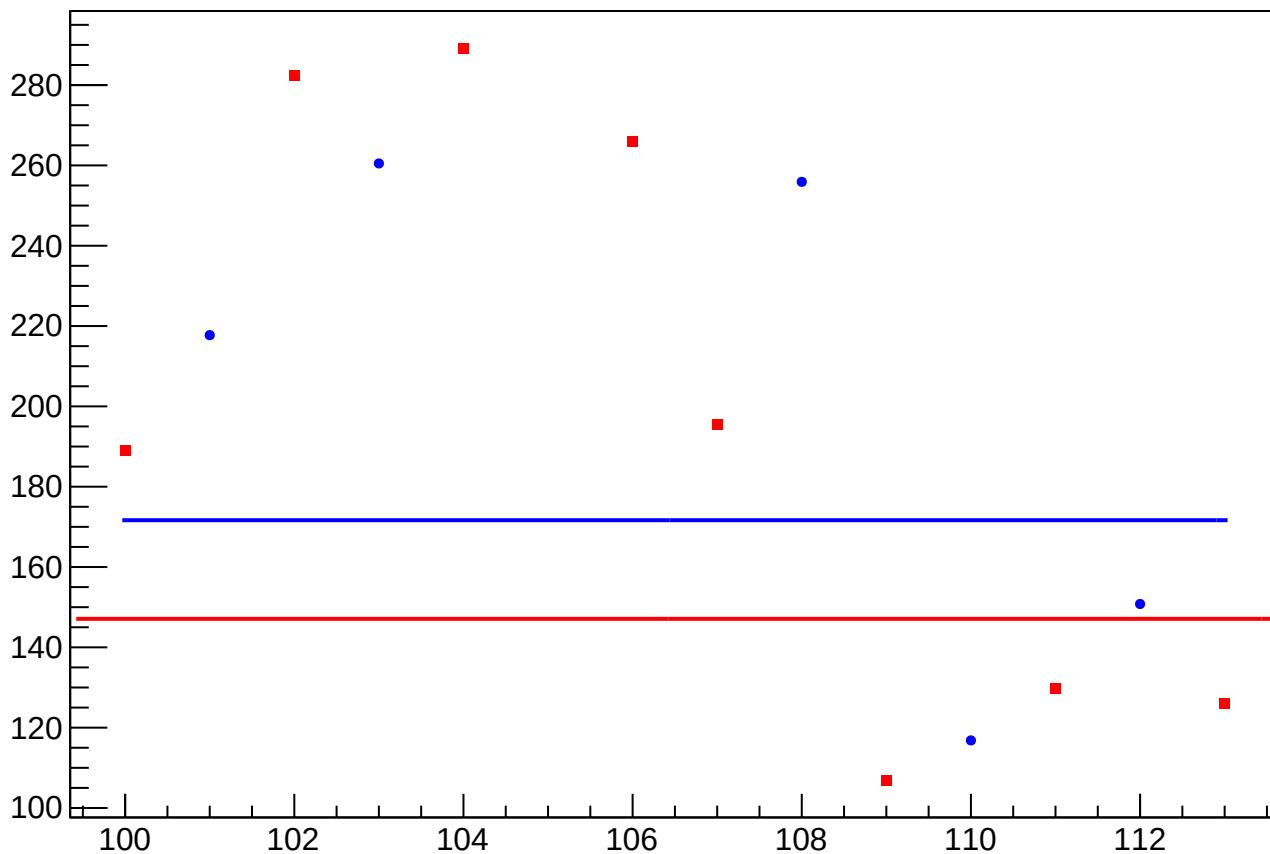
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.118+/-71.069  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_rms vs Slug



Right In: 171.654+/-0.081  $\chi^2/\text{NDF}$ : 455297.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 147.100+/-0.064  $\chi^2/\text{NDF}$ : 858961.7/7

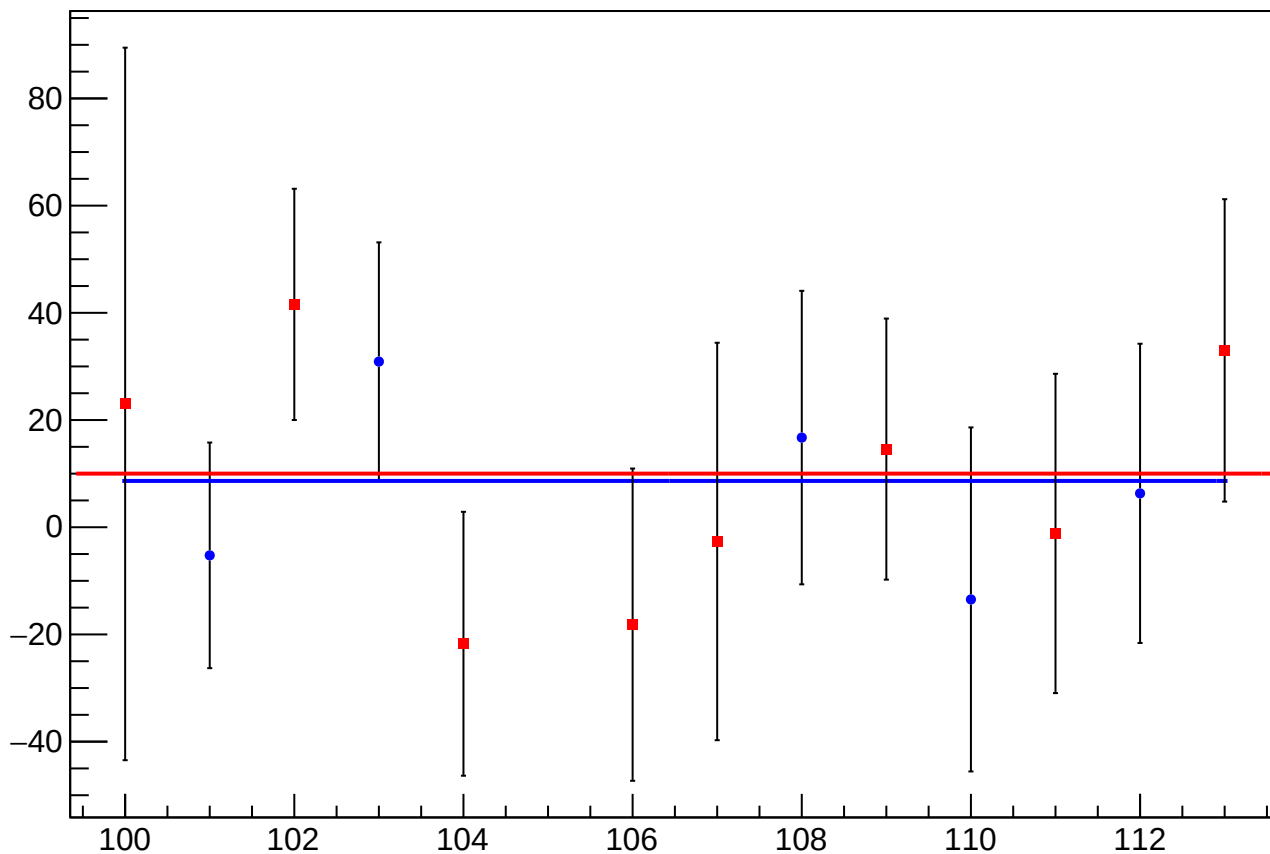
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 156.457+/-0.050  $\chi^2/\text{NDF}$ : 1370568.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_mean vs Slug



Right In: 8.639 $\pm$ 11.274  $\chi^2$ /NDF: 2.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.002 $\pm$ 9.999  $\chi^2$ /NDF: 5.7/7

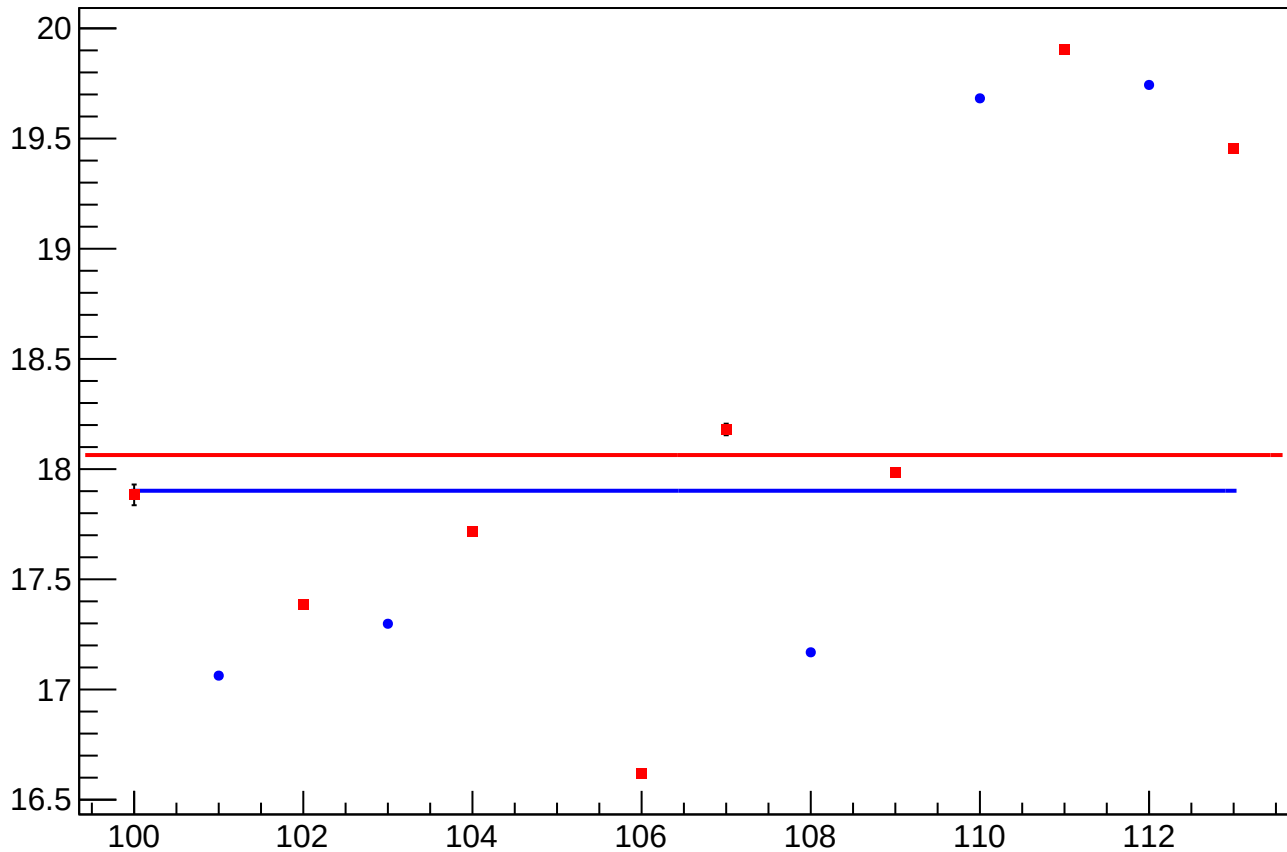
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.402 $\pm$ 7.481  $\chi^2$ /NDF: 7.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_rms vs Slug



Right In: 17.902 $\pm$ 0.008  $\chi^2$ /NDF: 20944.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18.064 $\pm$ 0.007  $\chi^2$ /NDF: 19861.9/7

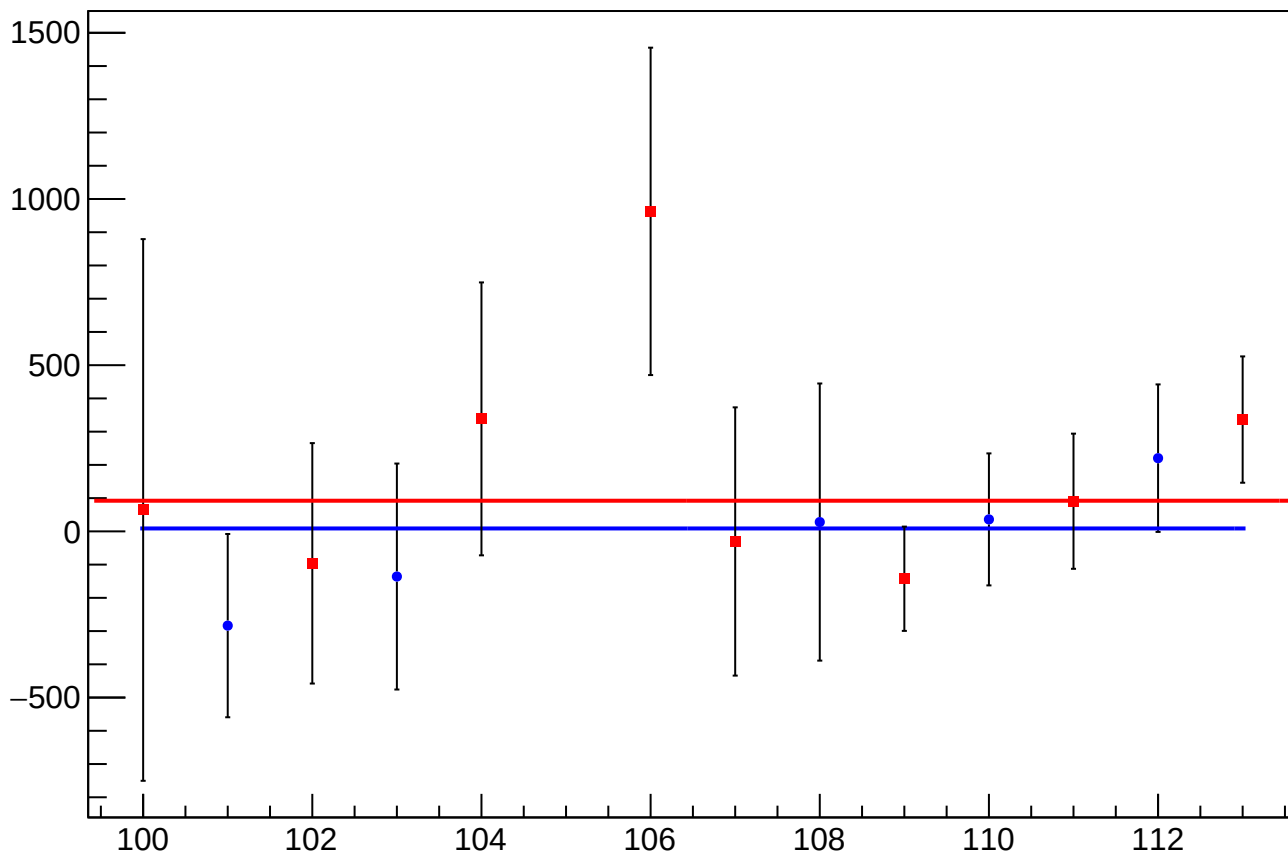
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.993 $\pm$ 0.005  $\chi^2$ /NDF: 41037.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_mean vs Slug



Right In: 8.767+/-116.857  $\chi^2/\text{NDF}$ : 2.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 92.201+/-92.111  $\chi^2/\text{NDF}$ : 7.7/7

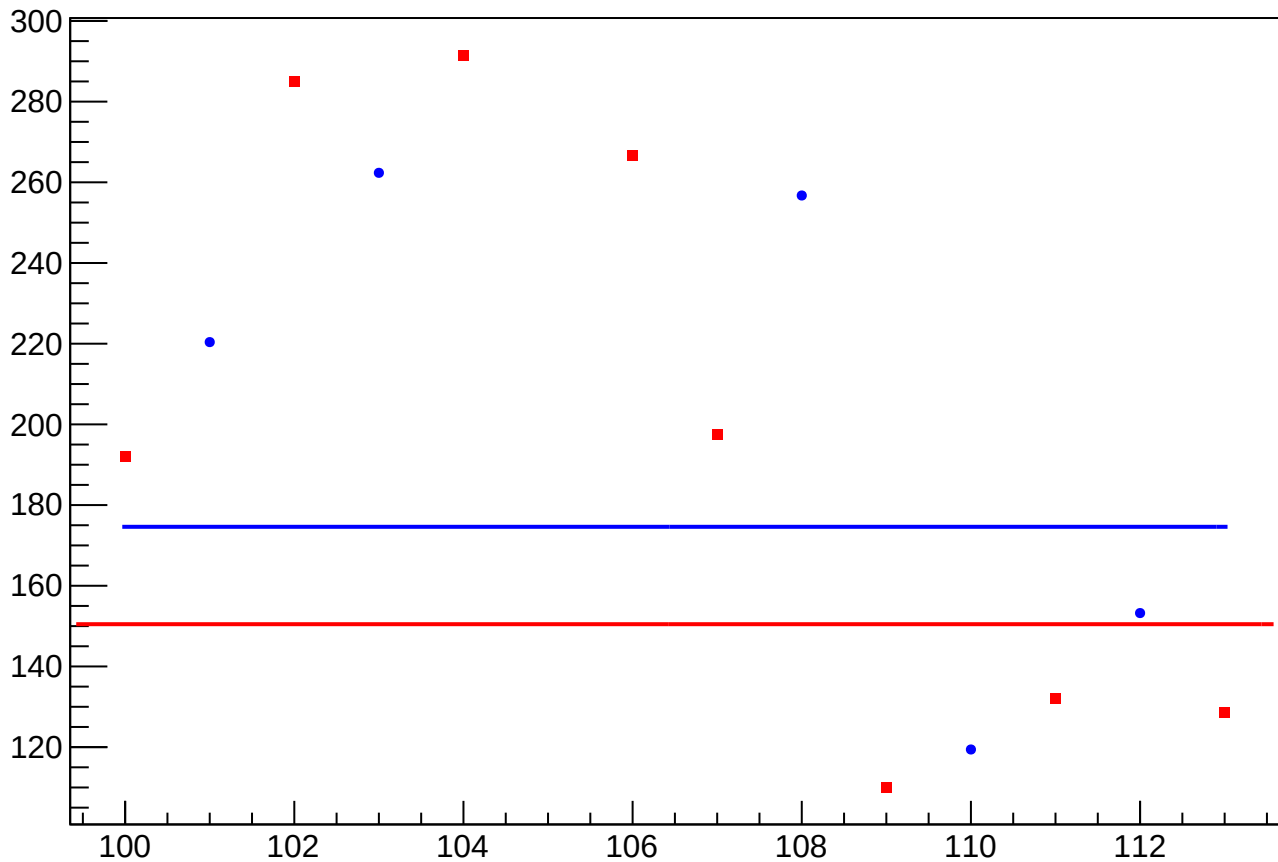
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 60.228+/-72.340  $\chi^2/\text{NDF}$ : 10.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug



Right In: 174.614 $\pm$ 0.083  $\chi^2$ /NDF: 439071.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 150.474 $\pm$ 0.065  $\chi^2$ /NDF: 831242.7/7

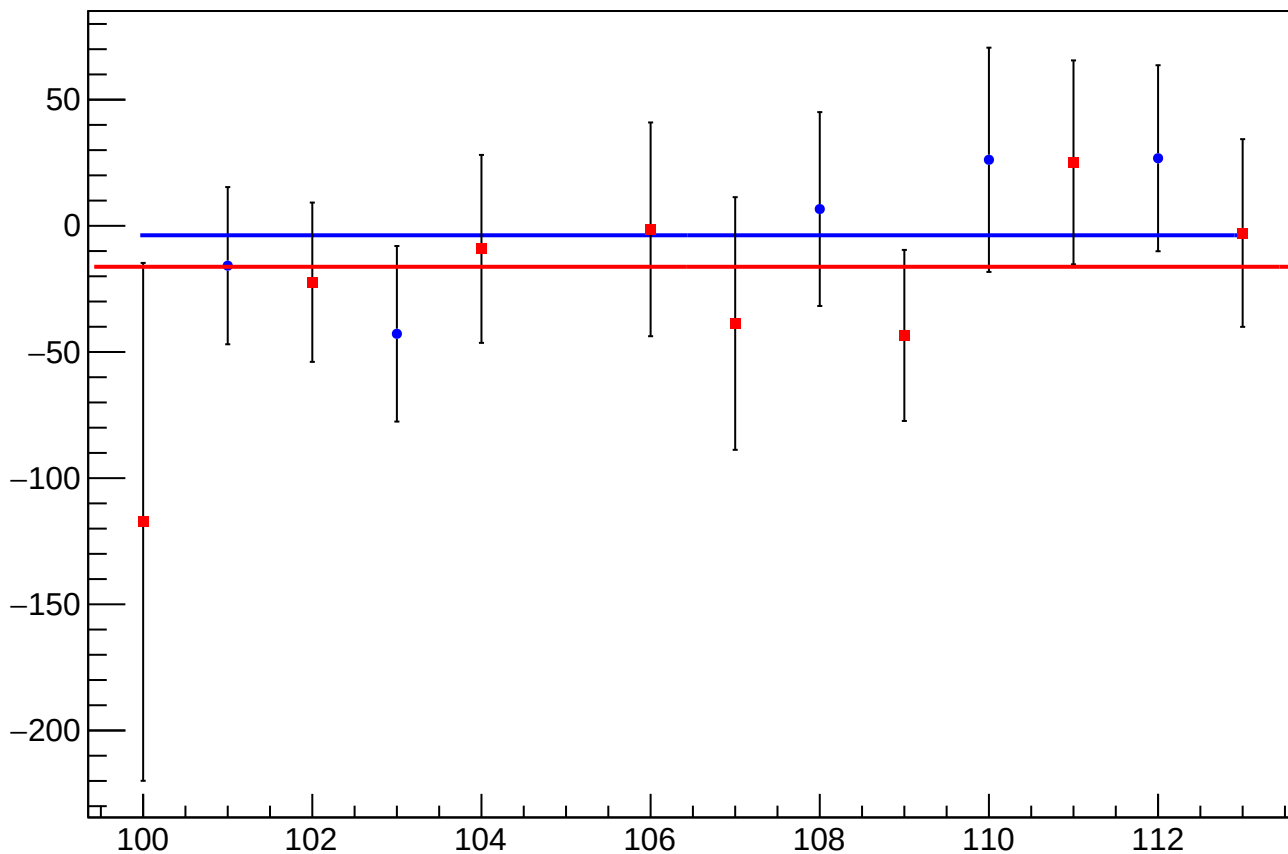
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 159.725 $\pm$ 0.051  $\chi^2$ /NDF: 1322954.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug



Right In: -3.746+/-16.272  $\chi^2/\text{NDF}$ : 2.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -16.231+/-14.168  $\chi^2/\text{NDF}$ : 3.2/7

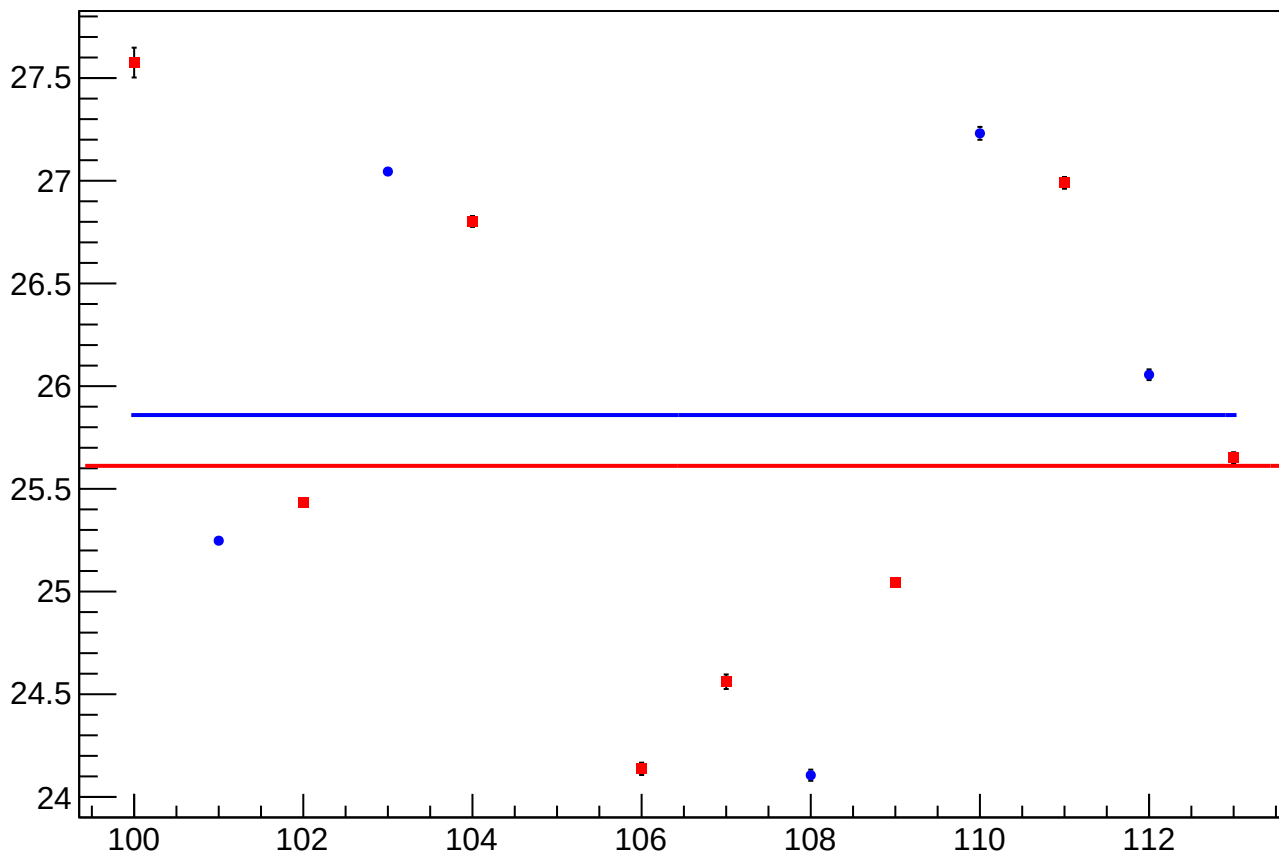
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -10.847+/-10.685  $\chi^2/\text{NDF}$ : 6.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 25.859+/-0.012  $\chi^2/\text{NDF}$ : 9223.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.612+/-0.010  $\chi^2/\text{NDF}$ : 9035.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

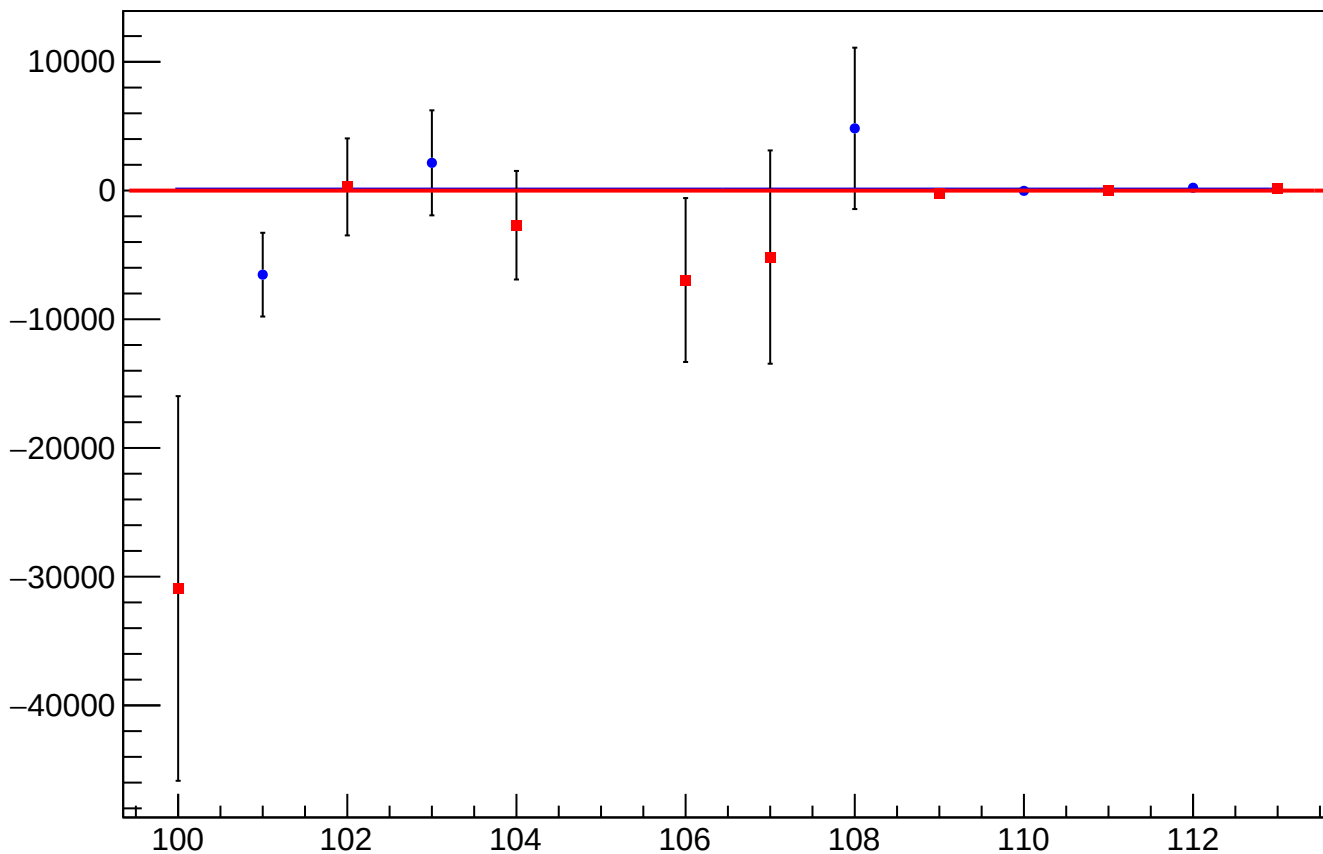
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.719+/-0.008  $\chi^2/\text{NDF}$ : 18521.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_mean vs Slug



Right In: 75.402+/-145.250  $\chi^2/\text{NDF}$ : 5.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.977+/-114.158  $\chi^2/\text{NDF}$ : 7.9/7

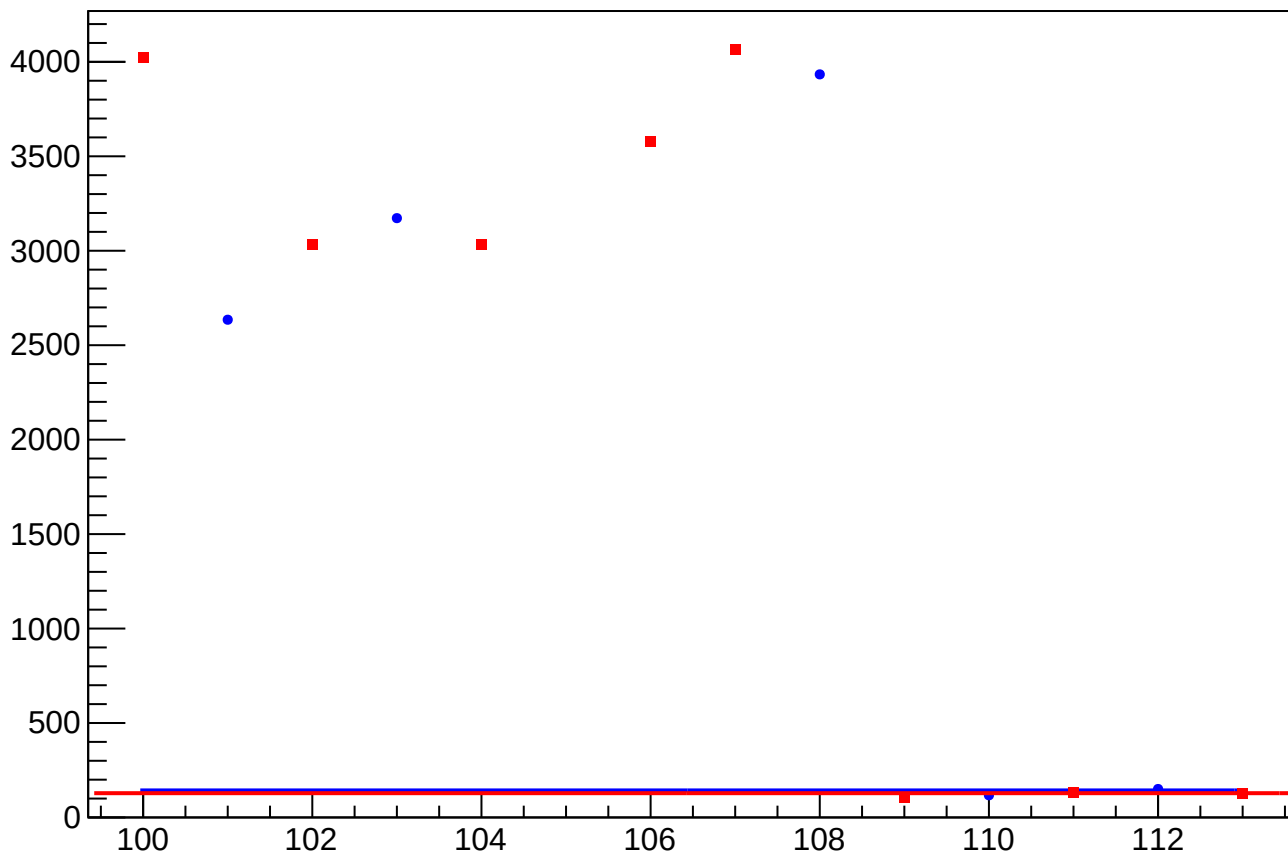
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 26.333+/-89.754  $\chi^2/\text{NDF}$ : 13.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_rms vs Slug



Right In: 143.086 $\pm$ 0.103  $\chi^2$ /NDF: 3044313.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 128.497 $\pm$ 0.081  $\chi^2$ /NDF: 3334008.0/7

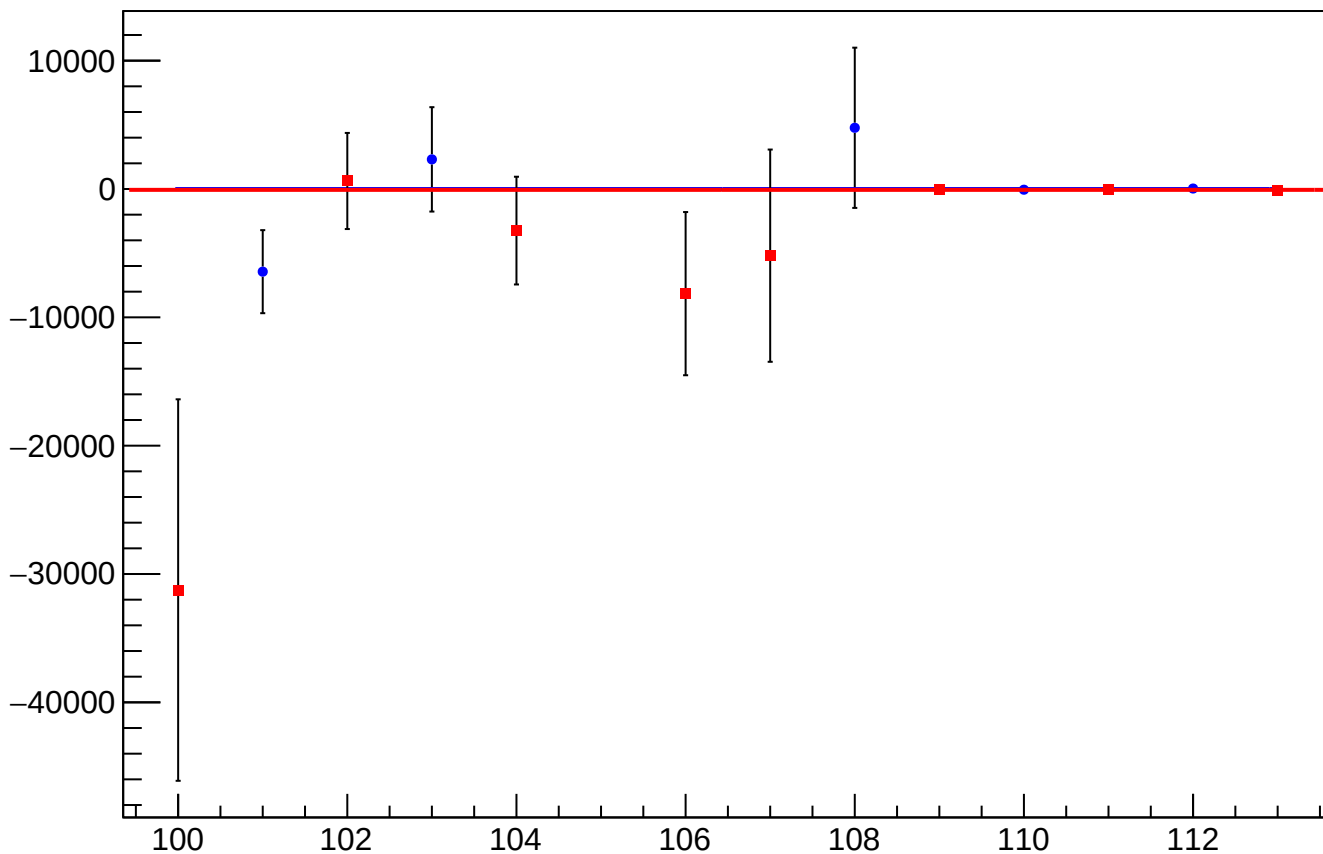
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 134.067 $\pm$ 0.063  $\chi^2$ /NDF: 6390794.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_mean vs Slug



Right In: -3.261+/-28.627  $\chi^2/\text{NDF}$ : 7.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -66.979+/-24.459  $\chi^2/\text{NDF}$ : 9.5/7

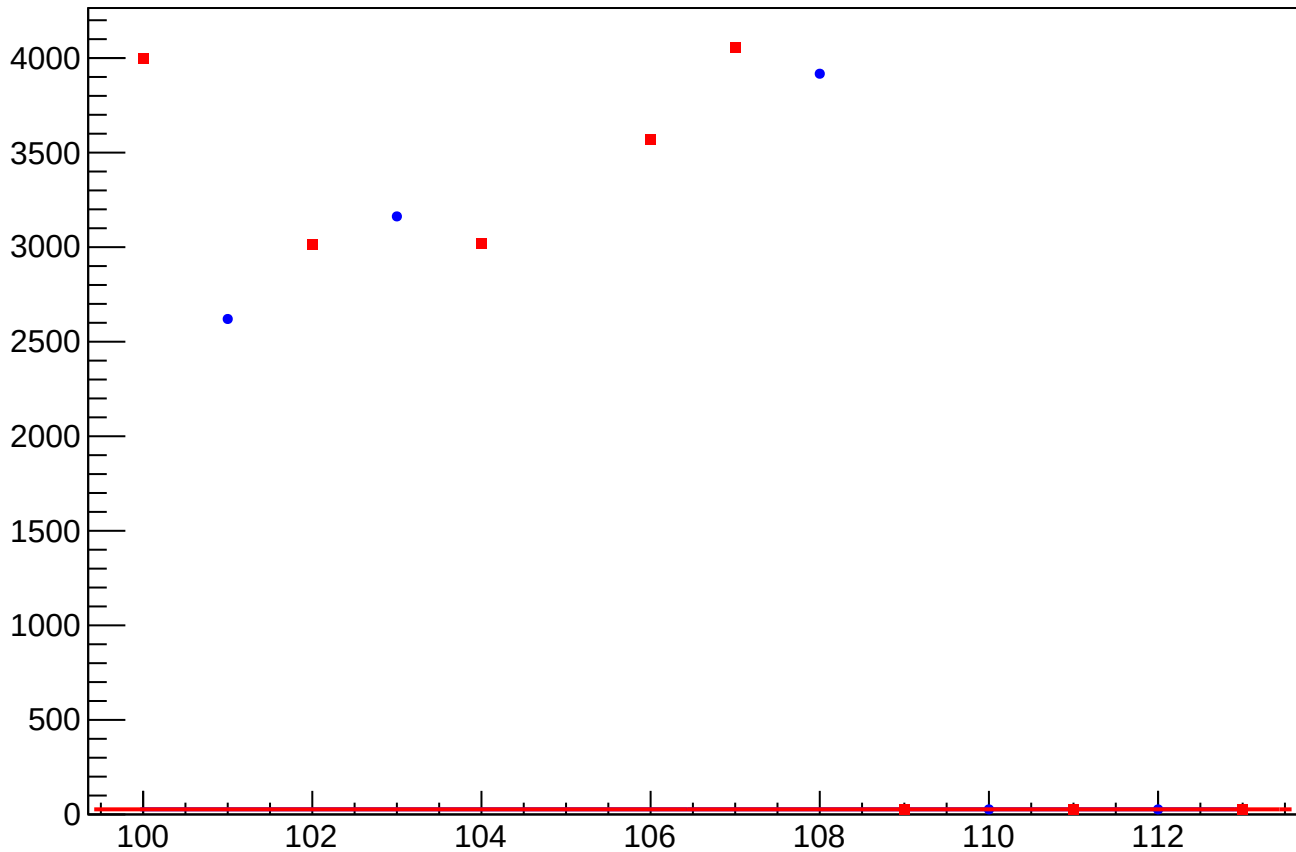
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -40.092+/-18.596  $\chi^2/\text{NDF}$ : 19.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_rms vs Slug



Right In: 27.223 $\pm$ 0.020  $\chi^2$ /NDF: 3250684.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27.046 $\pm$ 0.017  $\chi^2$ /NDF: 3531597.2/7

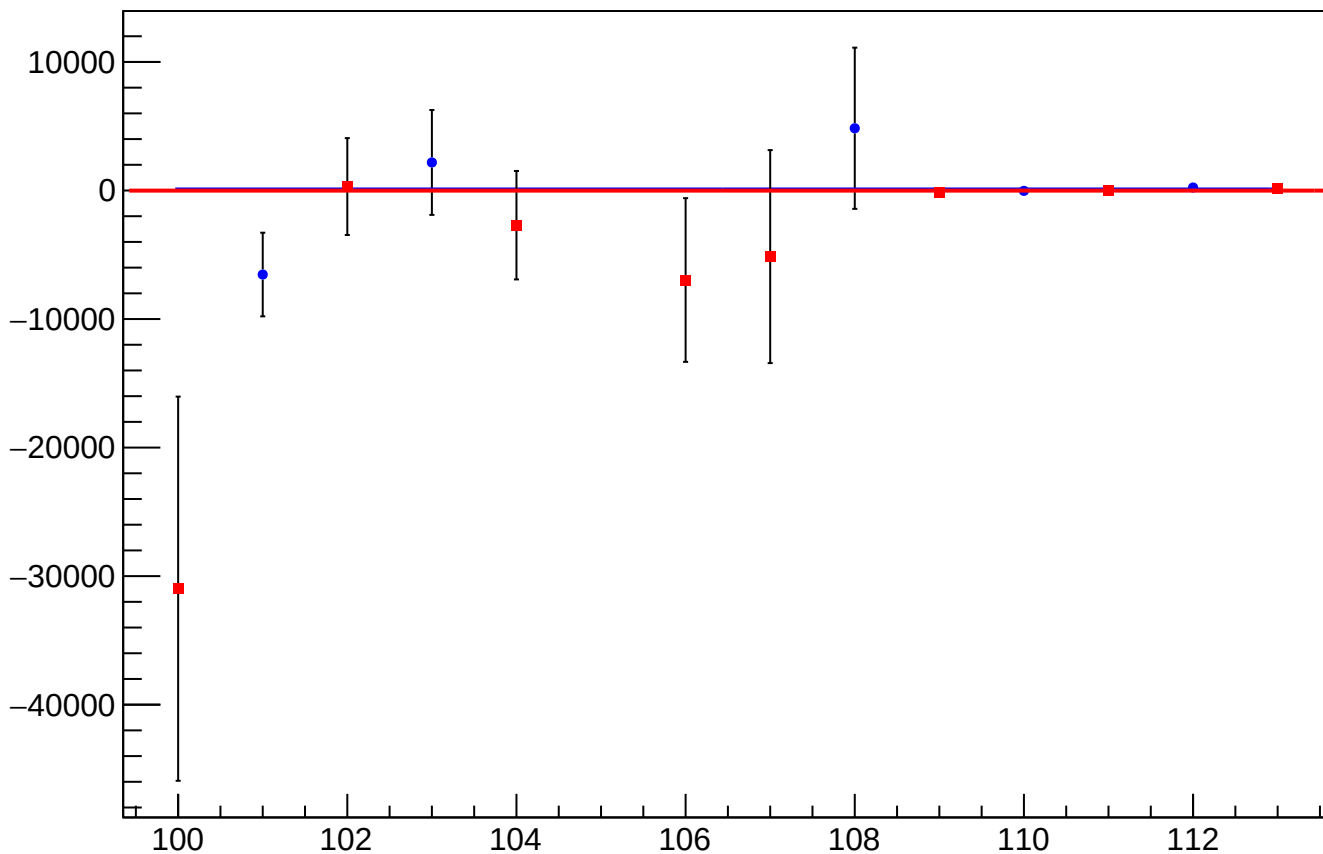
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.120 $\pm$ 0.013  $\chi^2$ /NDF: 6782326.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_mean vs Slug



Right In: 79.770+/-144.509  $\chi^2/\text{NDF}$ : 5.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7.868+/-113.551  $\chi^2/\text{NDF}$ : 7.6/7

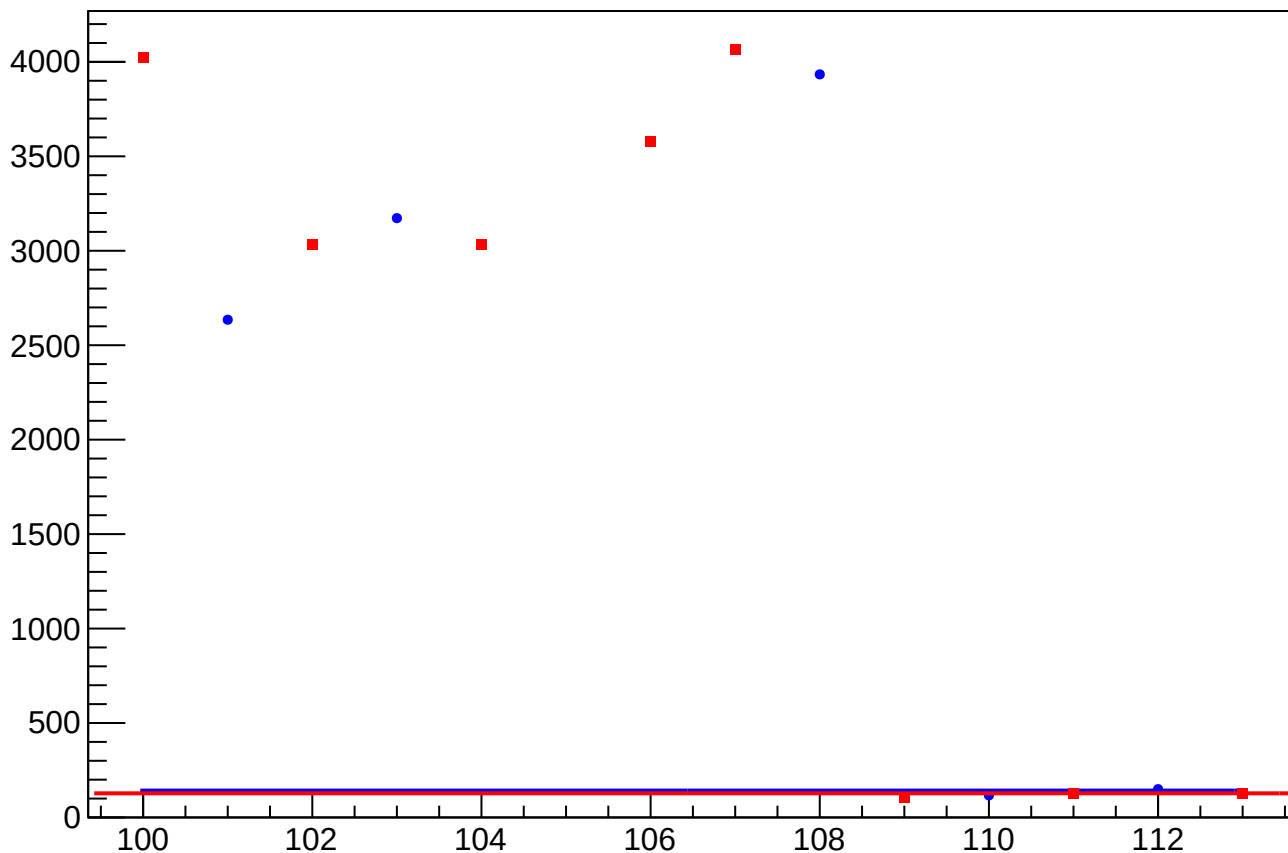
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.586+/-89.284  $\chi^2/\text{NDF}$ : 13.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_rms vs Slug



Right In: 142.301 $\pm$ 0.102  $\chi^2$ /NDF: 3045820.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.765 $\pm$ 0.080  $\chi^2$ /NDF: 3335604.5/7

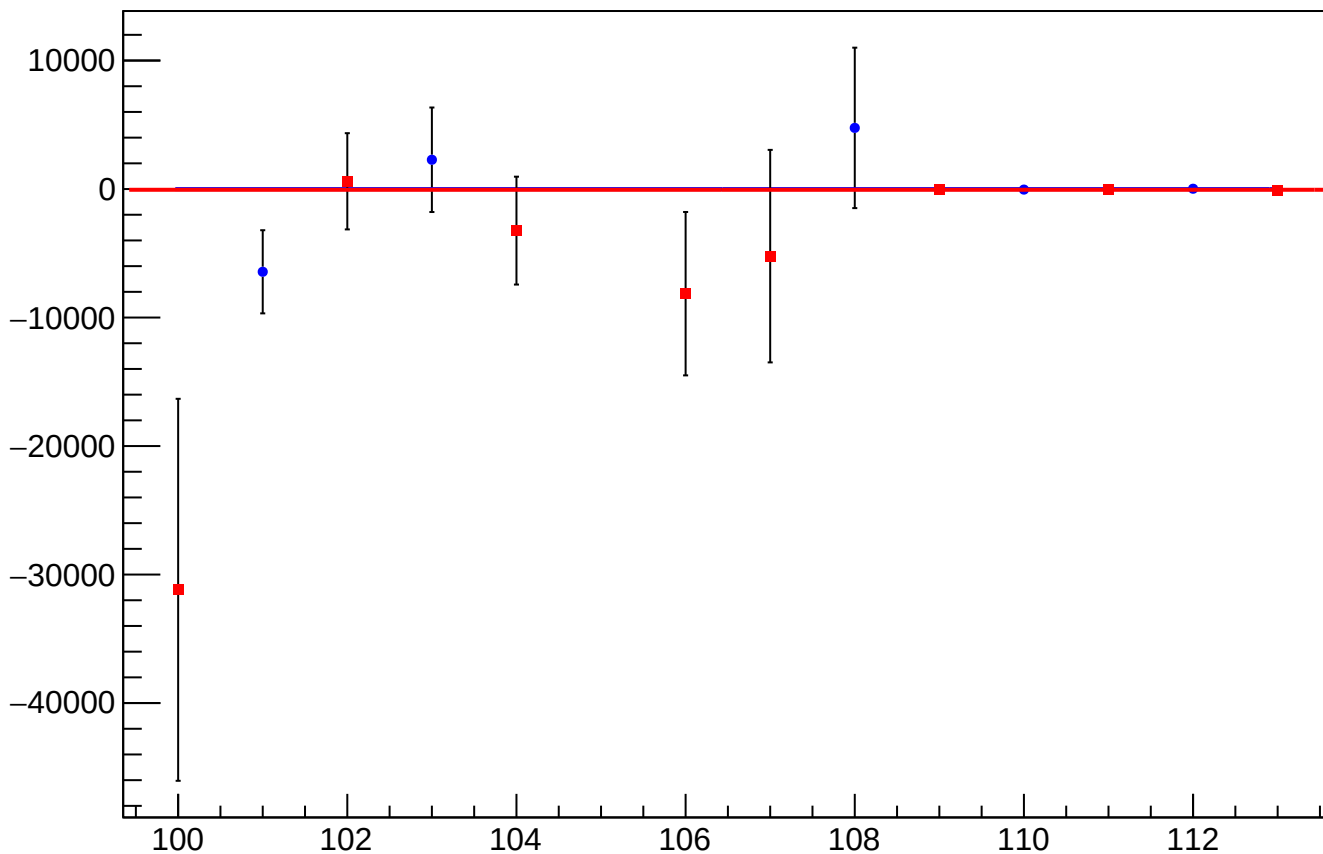
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 133.314 $\pm$ 0.063  $\chi^2$ /NDF: 6393937.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_mean vs Slug



Right In: -4.797+/-28.659  $\chi^2/\text{NDF}$ : 6.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -57.599+/-24.530  $\chi^2/\text{NDF}$ : 9.8/7

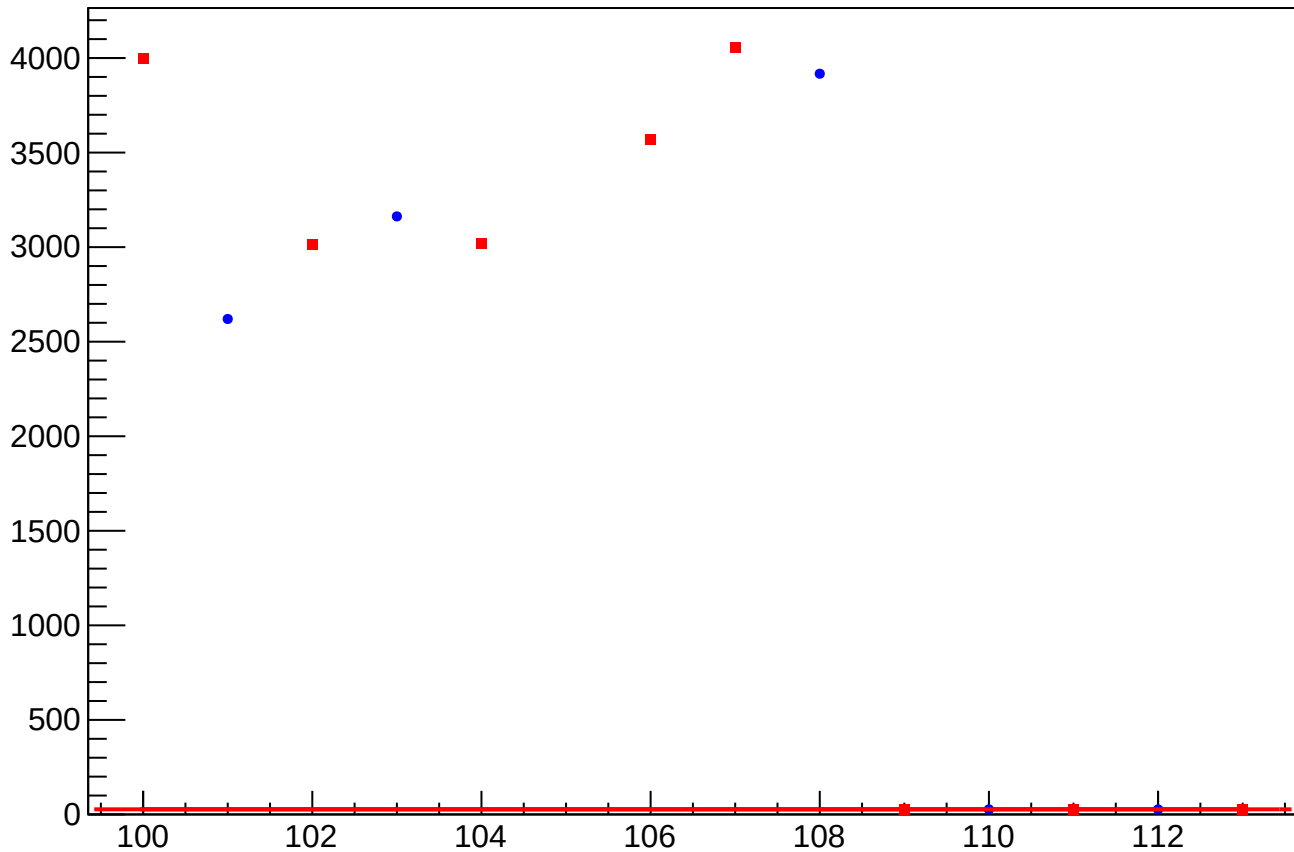
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -35.272+/-18.636  $\chi^2/\text{NDF}$ : 18.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 27.255 $\pm$ 0.020  $\chi^2$ /NDF: 3250623.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27.126 $\pm$ 0.017  $\chi^2$ /NDF: 3531221.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

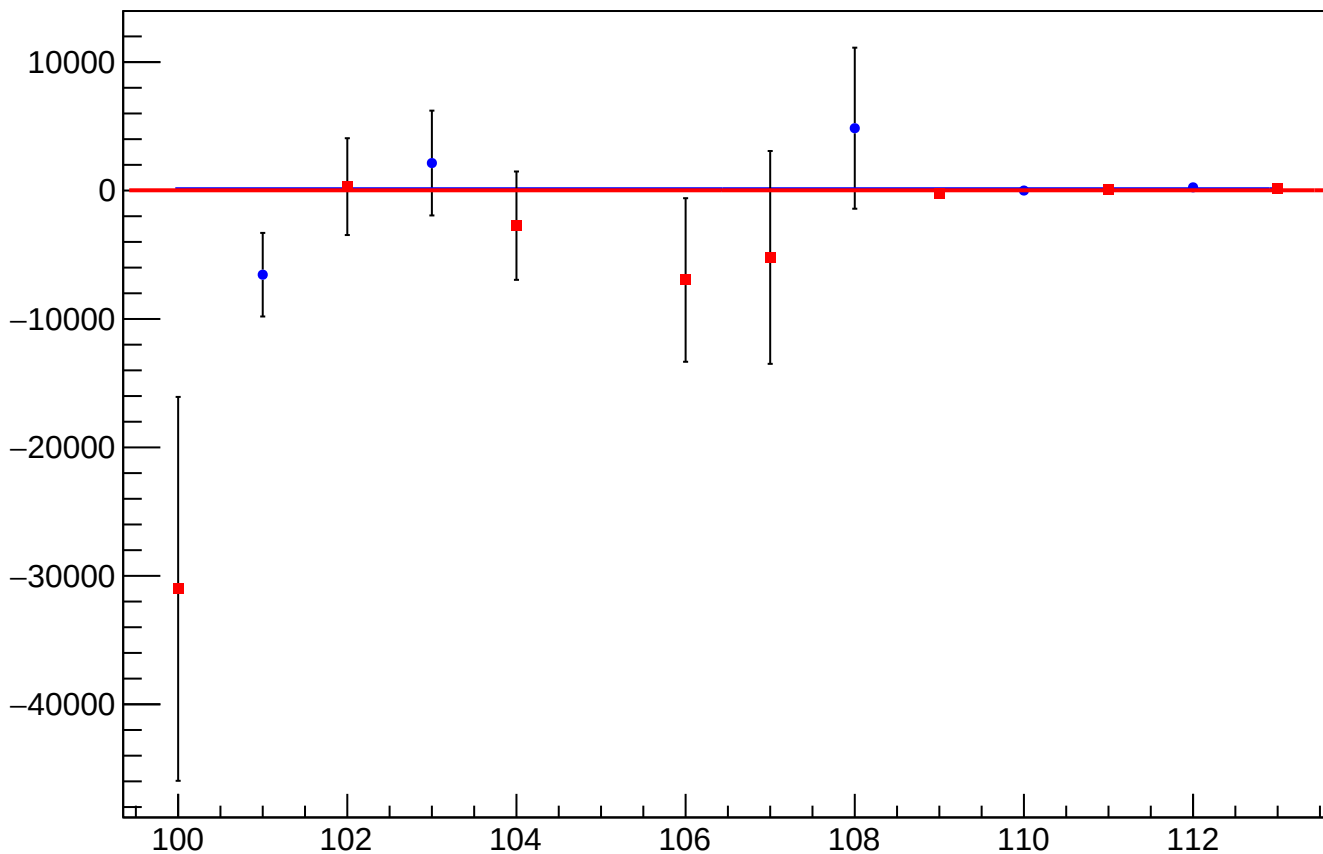
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.180 $\pm$ 0.013  $\chi^2$ /NDF: 6781867.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_mean vs Slug



Right In: 102.562 $\pm$ 147.689  $\chi^2$ /NDF: 5.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.612 $\pm$ 116.194  $\chi^2$ /NDF: 8.2/7

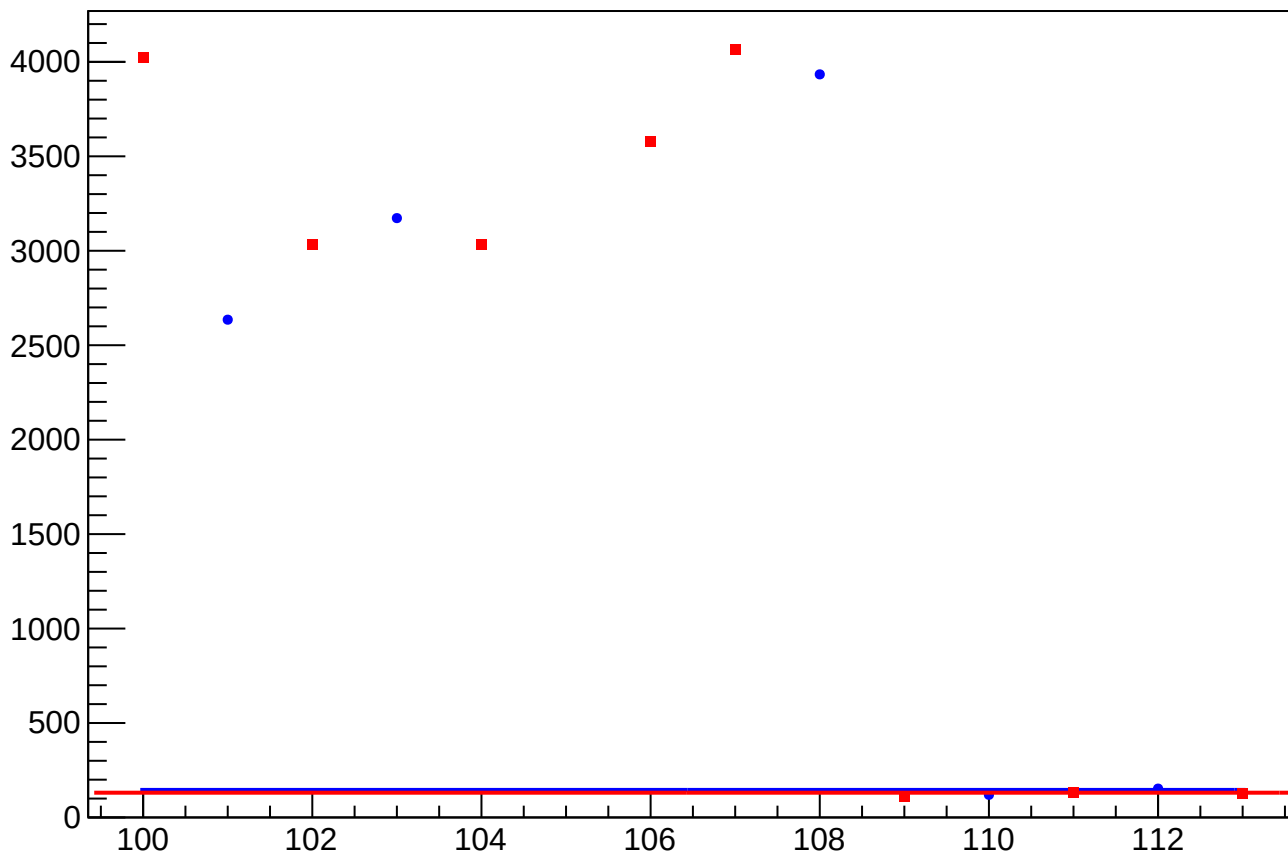
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 51.326 $\pm$ 91.320  $\chi^2$ /NDF: 14.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_rms vs Slug



Right In: 145.792 $\pm$ 0.104  $\chi^2$ /NDF: 3037727.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 131.040 $\pm$ 0.082  $\chi^2$ /NDF: 3327839.1/7

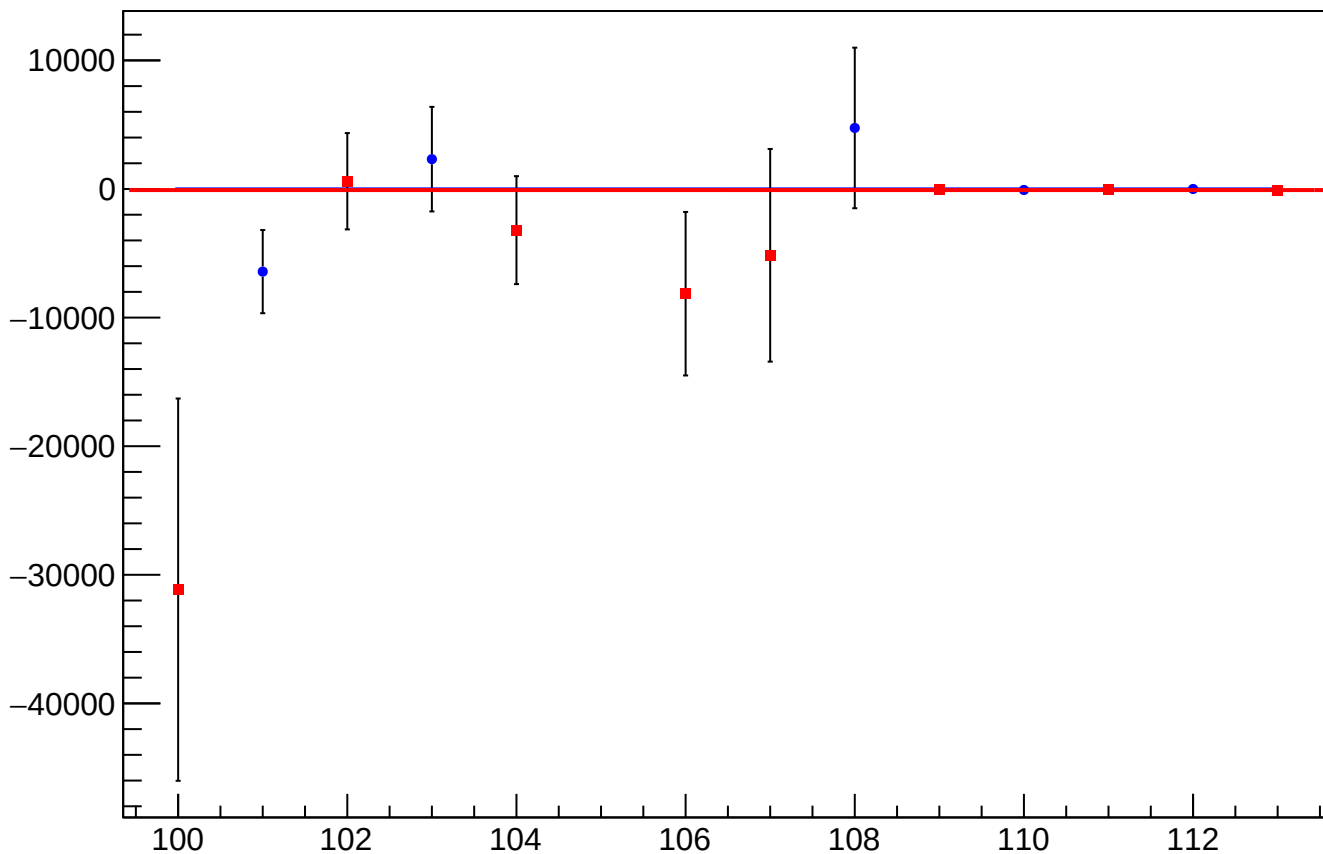
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 136.680 $\pm$ 0.065  $\chi^2$ /NDF: 6377891.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_mean vs Slug



Right In: -31.717 $\pm$ 35.755  $\chi^2$ /NDF: 6.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -83.332 $\pm$ 30.443  $\chi^2$ /NDF: 9.2/7

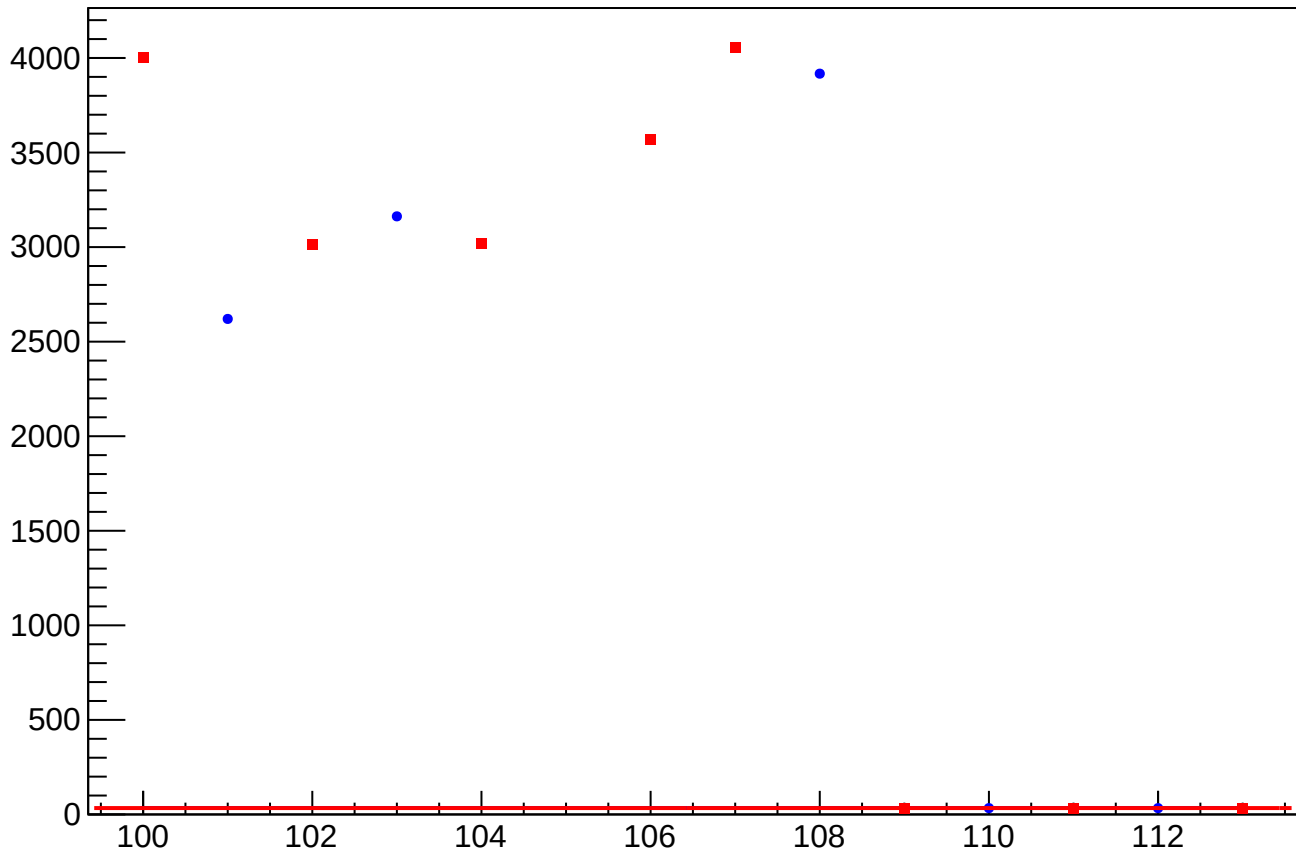
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -61.640 $\pm$ 23.179  $\chi^2$ /NDF: 16.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_rms vs Slug



Right In: 34.155+/-0.025  $\chi^2/\text{NDF}$ : 3236070.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 33.782+/-0.022  $\chi^2/\text{NDF}$ : 3516883.9/7

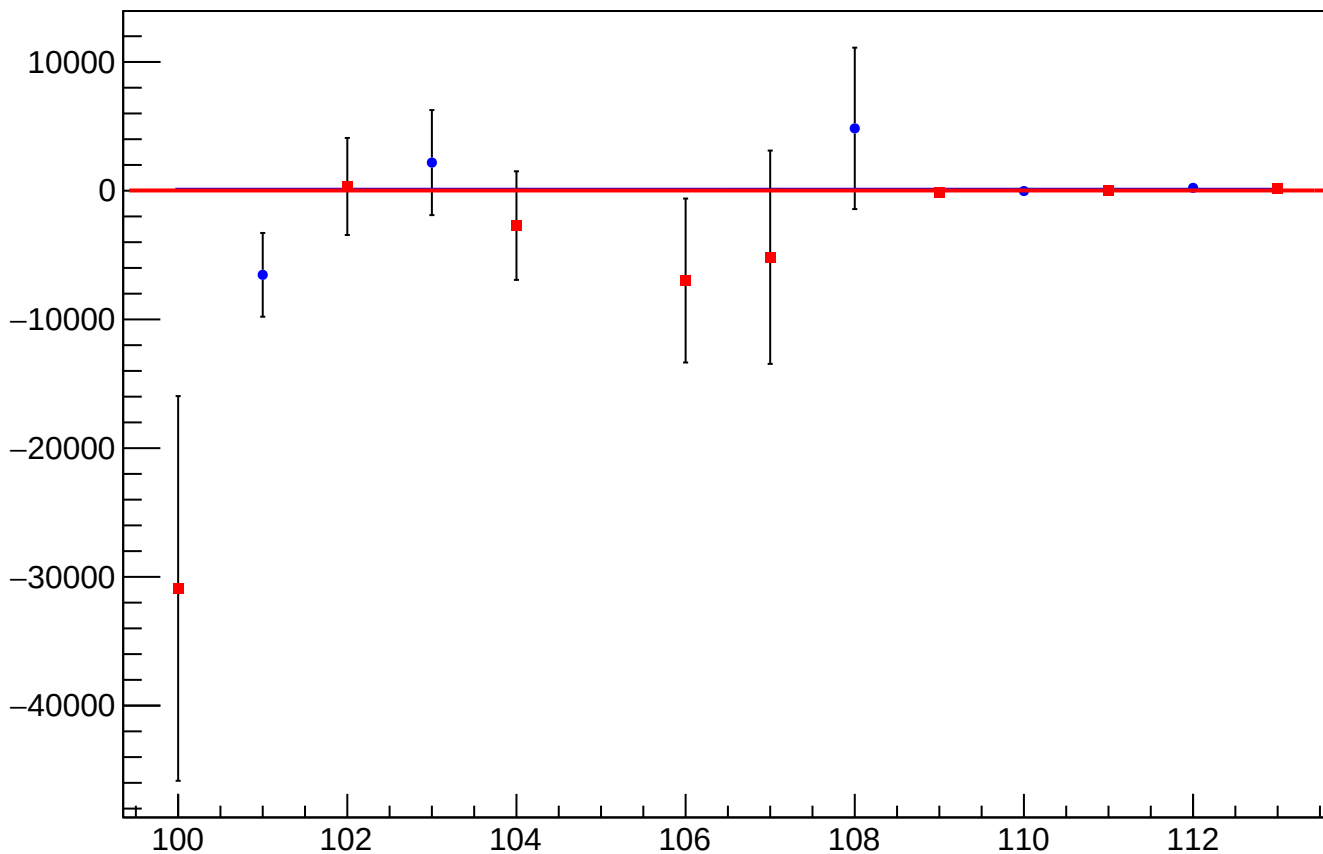
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.939+/-0.016  $\chi^2/\text{NDF}$ : 6753080.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_mean vs Slug



Right In: 74.662 $\pm$ 145.607  $\chi^2$ /NDF: 5.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.300 $\pm$ 114.535  $\chi^2$ /NDF: 8.0/7

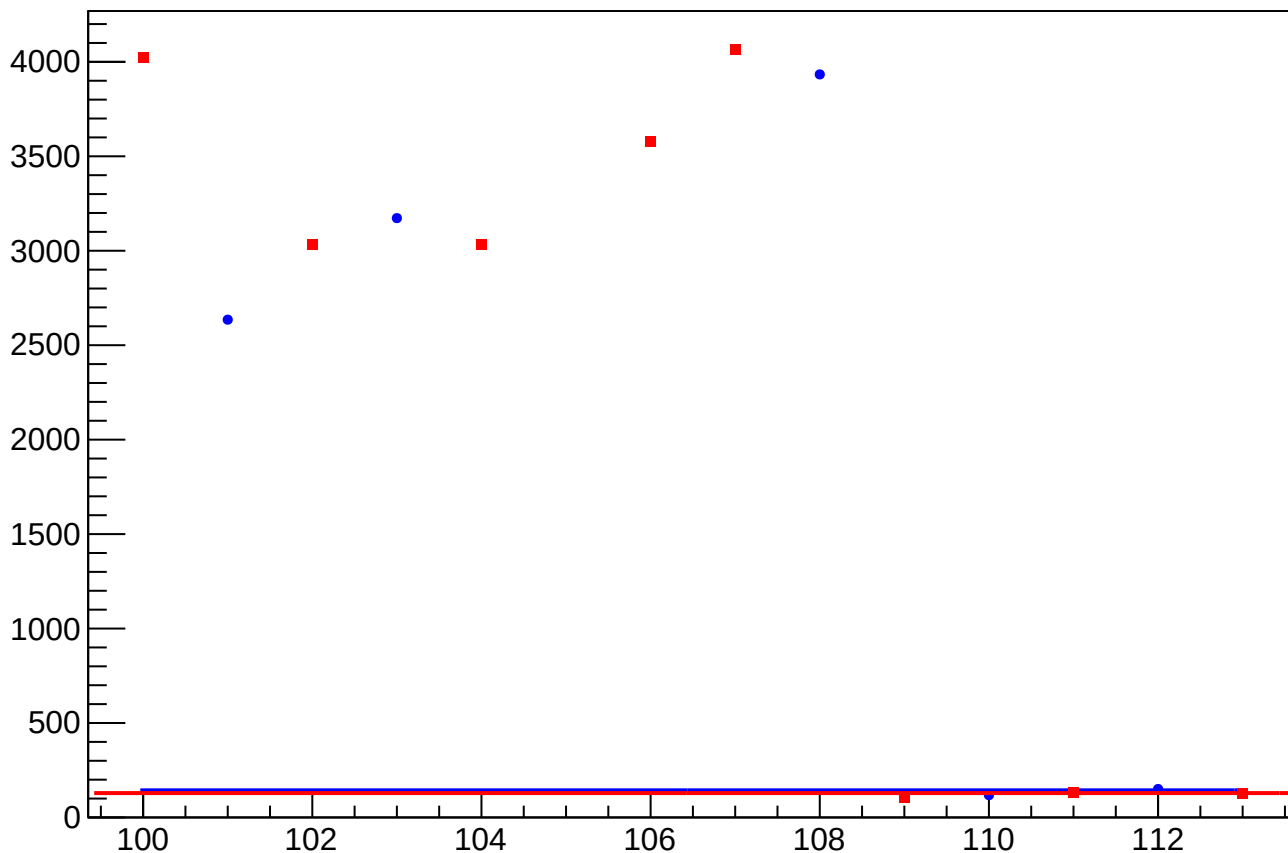
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 39.226 $\pm$ 90.022  $\chi^2$ /NDF: 13.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug



Right In: 143.550+/-0.103  $\chi^2/\text{NDF}$ : 3042252.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 129.032+/-0.081  $\chi^2/\text{NDF}$ : 3332204.2/7

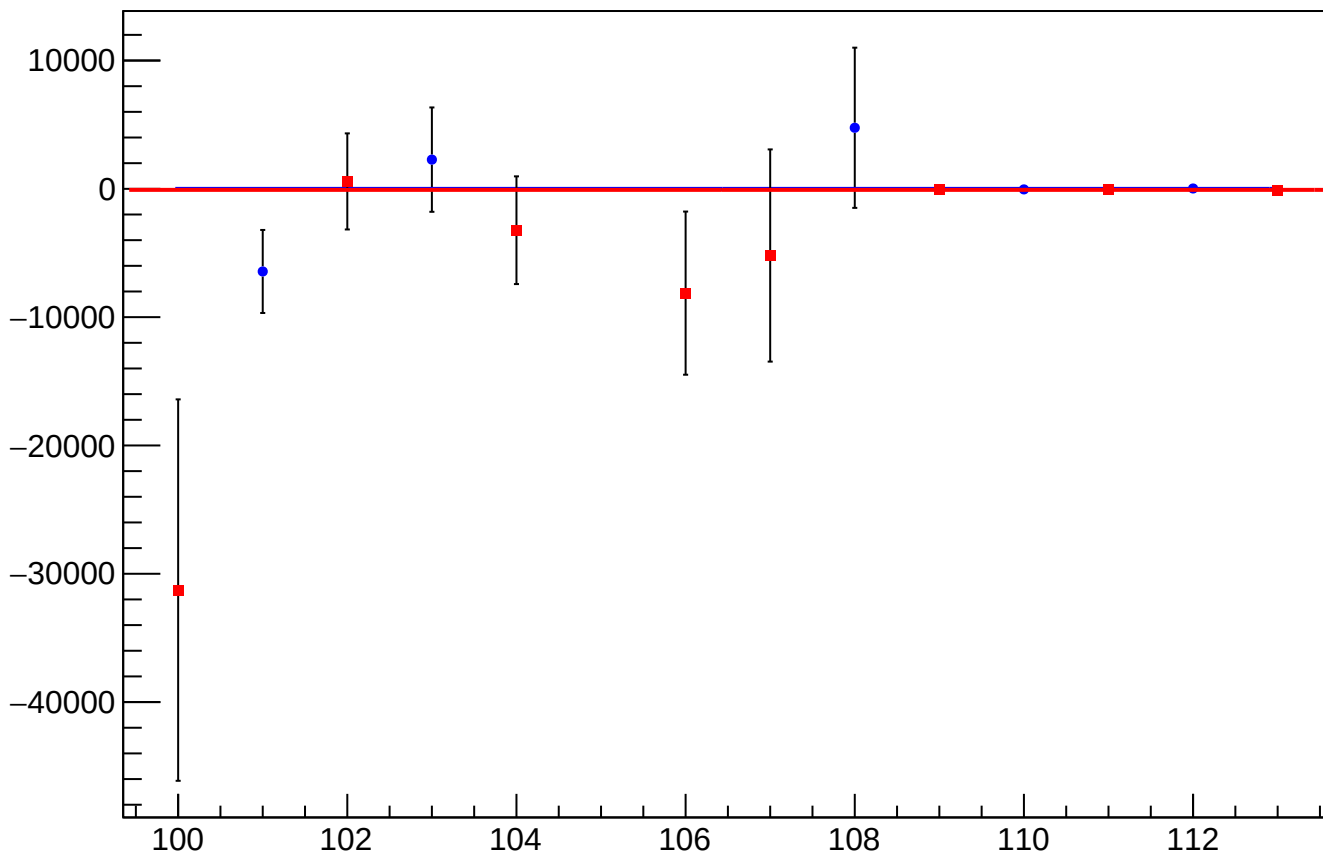
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 134.581+/-0.064  $\chi^2/\text{NDF}$ : 6386740.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug



Right In: -3.455+/-33.542  $\chi^2/\text{NDF}$ : 6.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -79.958+/-28.510  $\chi^2/\text{NDF}$ : 10.1/7

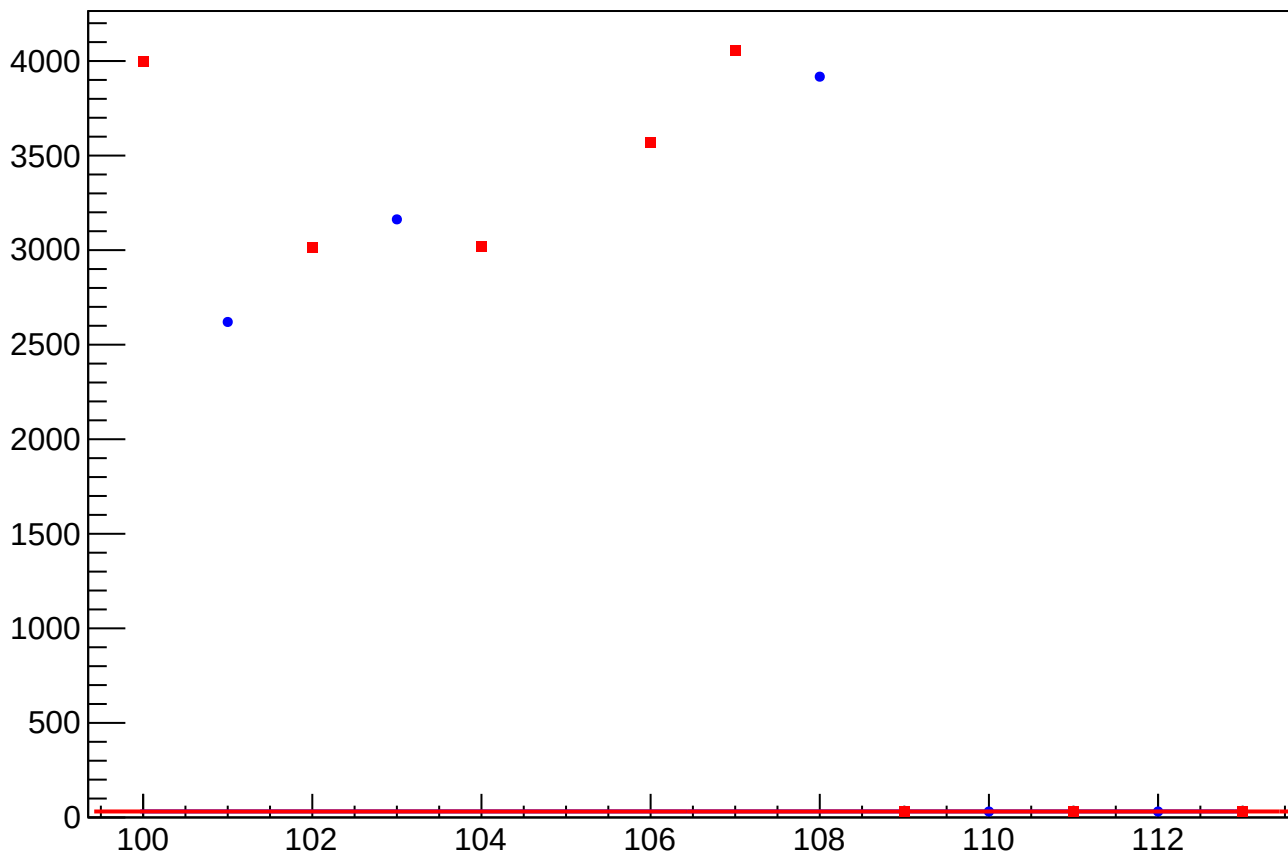
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -47.870+/-21.723  $\chi^2/\text{NDF}$ : 19.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 32.003 $\pm$ 0.024  $\chi^2$ /NDF: 3240601.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 31.606 $\pm$ 0.020  $\chi^2$ /NDF: 3521659.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

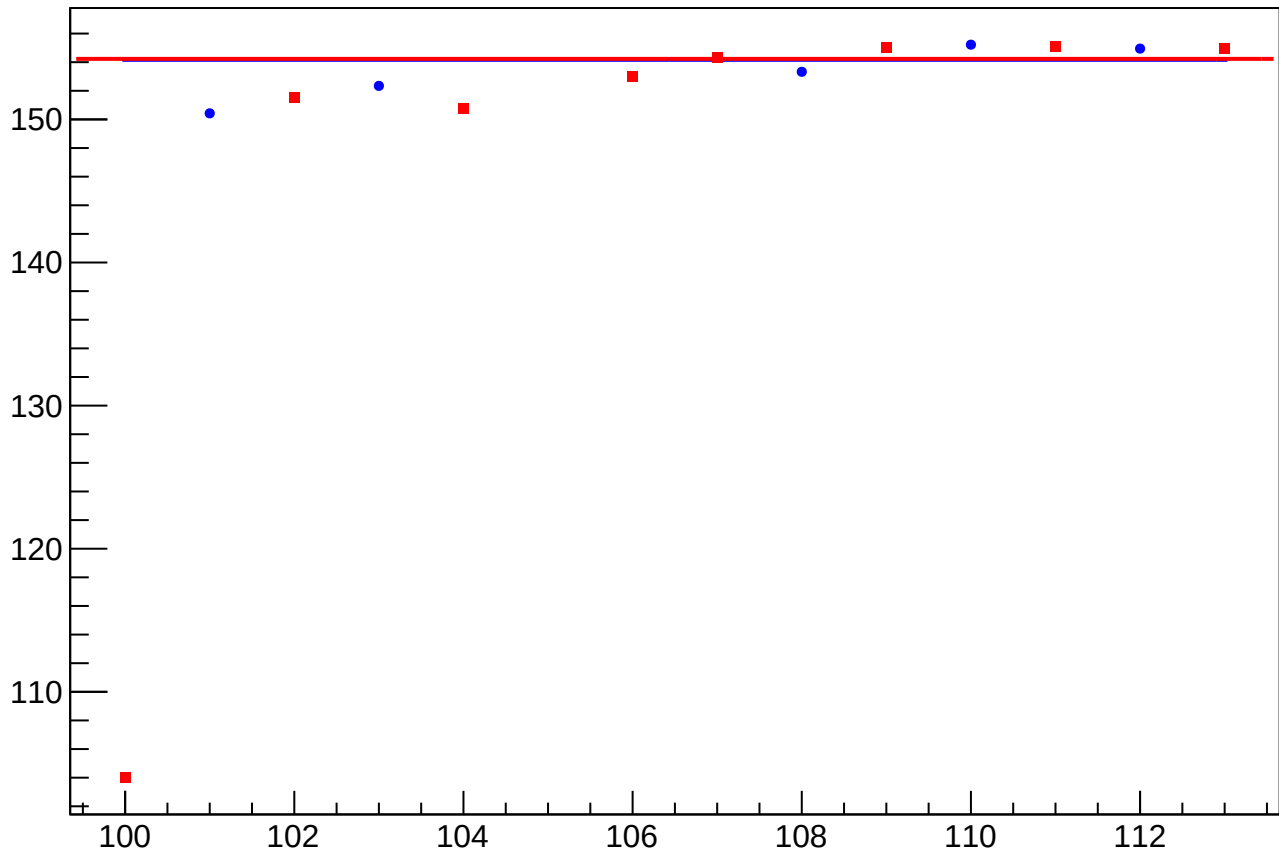
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.773 $\pm$ 0.015  $\chi^2$ /NDF: 6762422.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bcm\_target\_mean vs Slug



Right In: 154.166+/-0.000  $\chi^2/\text{NDF}$ : 20937415.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 154.231+/-0.000  $\chi^2/\text{NDF}$ : 249427452.7/7

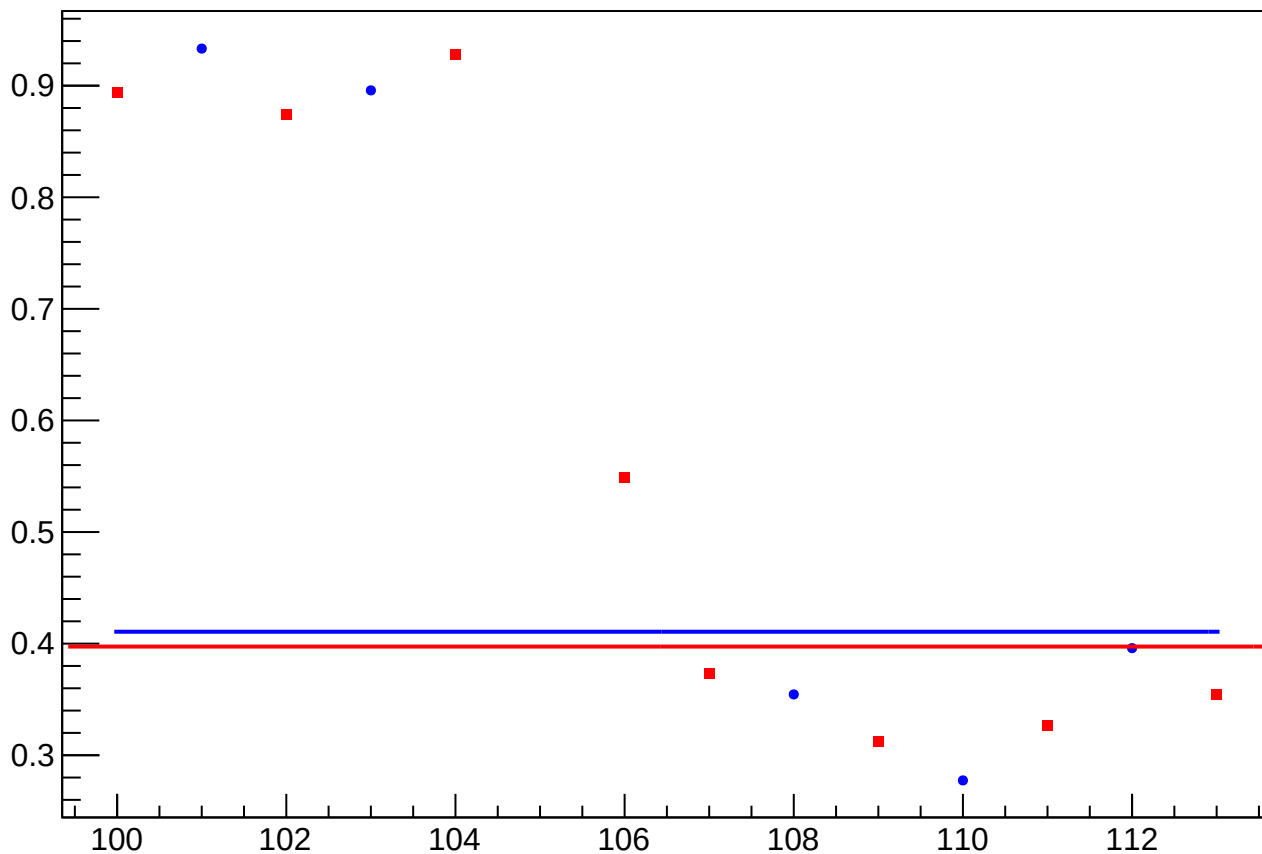
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 154.204+/-0.000  $\chi^2/\text{NDF}$ : 270392849.8/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_target\_rms vs Slug



Right In: 0.411+/-0.000  $\chi^2/\text{NDF}$ : 904777.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.397+/-0.000  $\chi^2/\text{NDF}$ : 915211.2/7

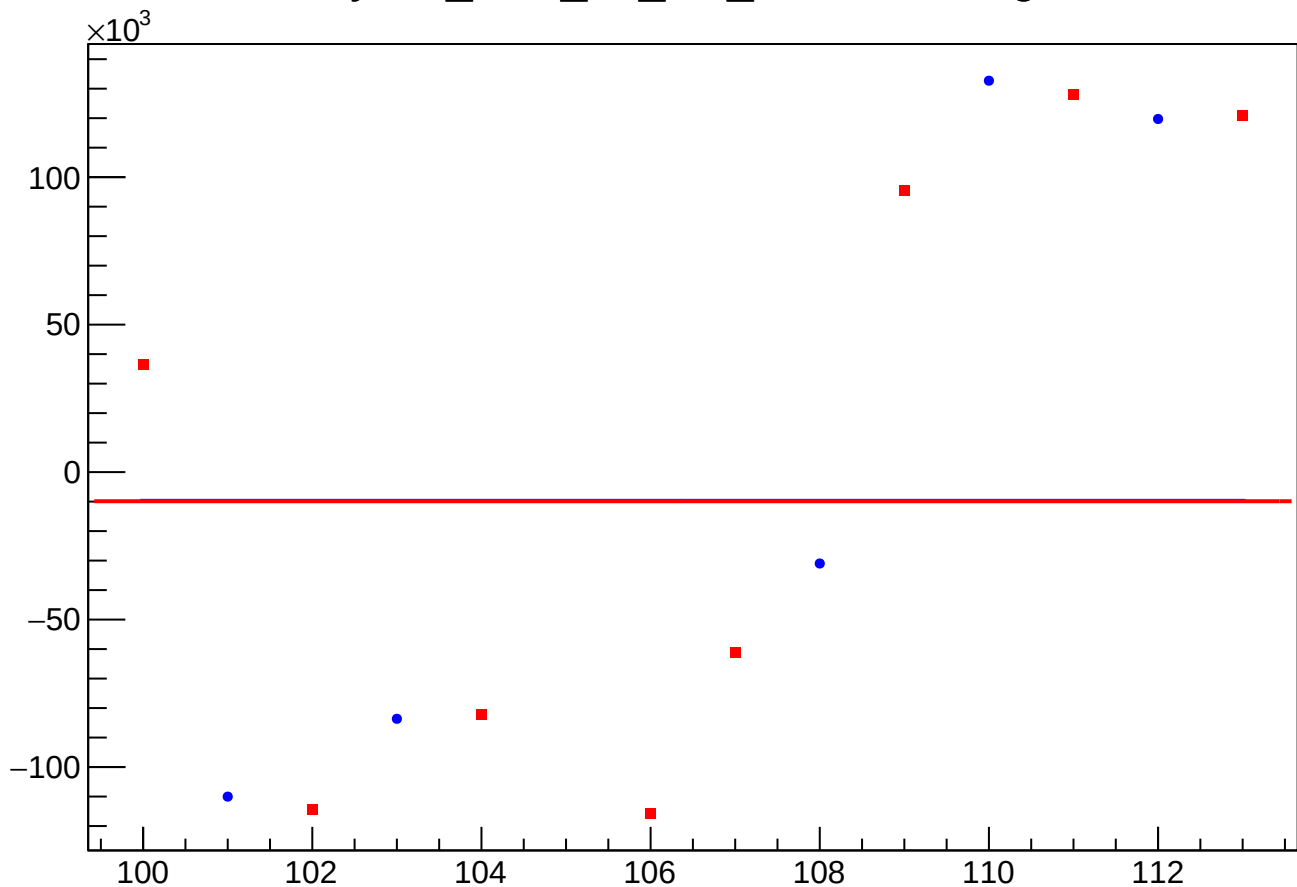
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.403+/-0.000  $\chi^2/\text{NDF}$ : 1822359.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_an\_diff\_mean vs Slug



Right In: -9746.486+/-3.531  $\chi^2/\text{NDF}$ : 836115646.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

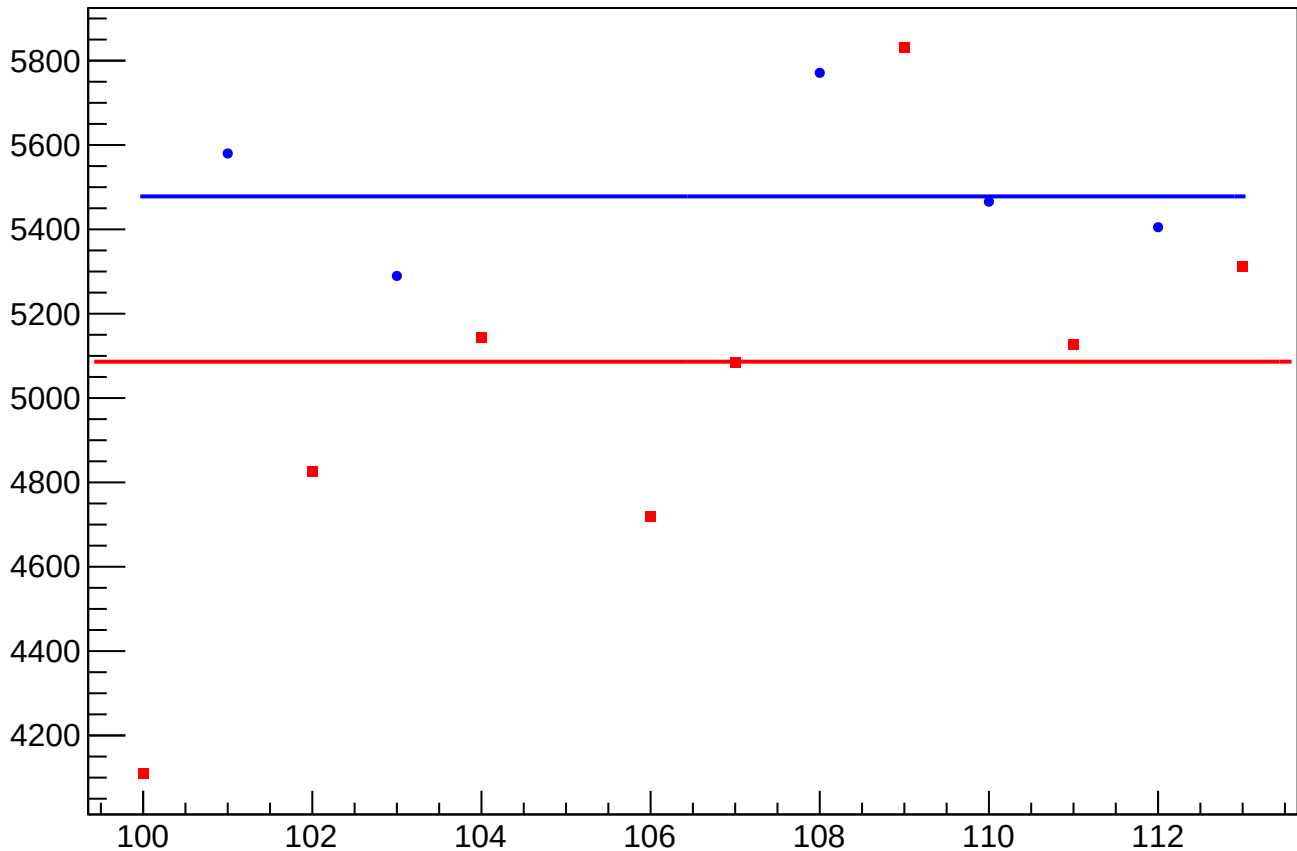
Right Out: -9873.084+/-2.884  $\chi^2/\text{NDF}$ : 1338130269.9/7

All: -9822.414+/-2.234  $\chi^2/\text{NDF}$ : 2174246687

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_an\_diff\_rms vs Slug



Right In: 5478.099 $\pm$ 2.497  $\chi^2$ /NDF: 3958.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5086.243 $\pm$ 2.040  $\chi^2$ /NDF: 33820.4/7

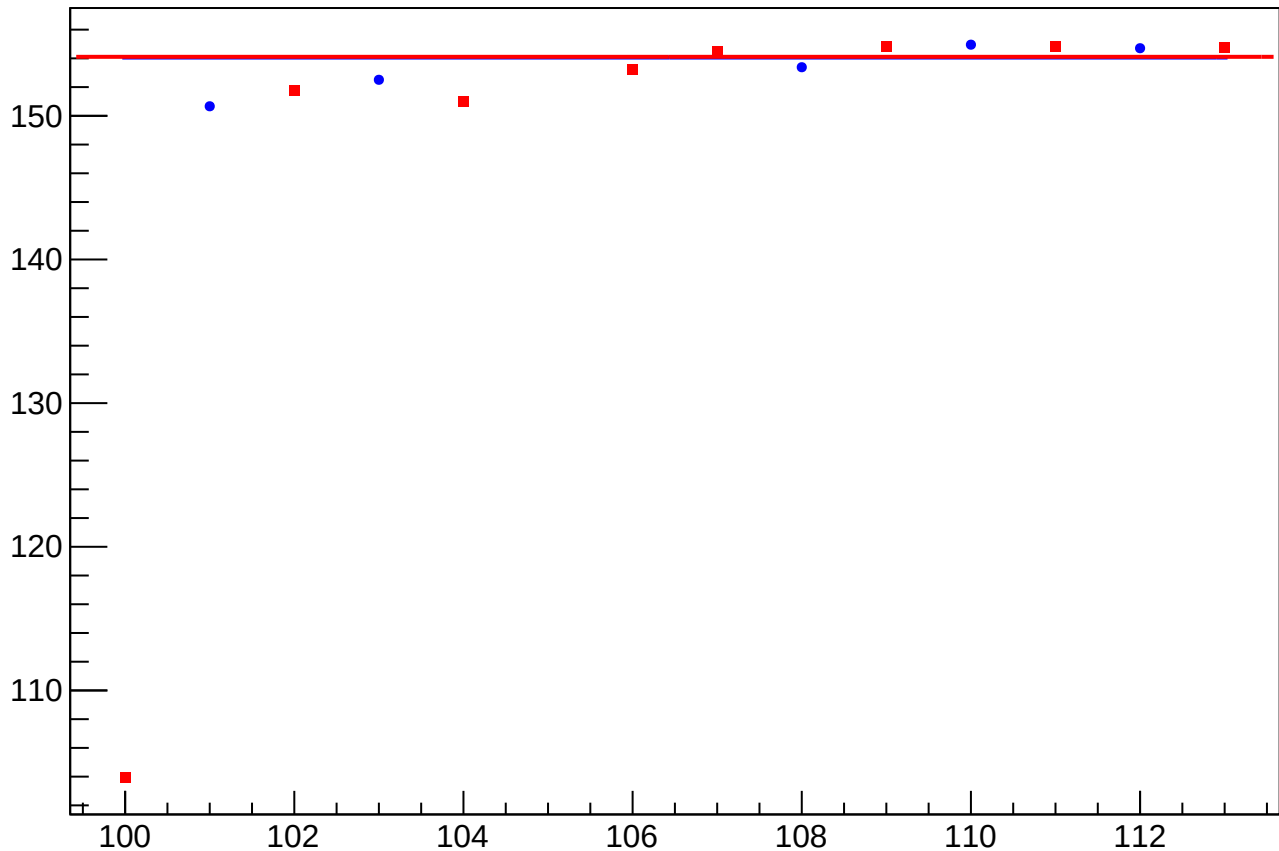
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5243.079 $\pm$ 1.580  $\chi^2$ /NDF: 52552.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_an\_ds\_mean vs Slug



Right In: 154.058 $\pm$ 0.000  $\chi^2$ /NDF: 16160822.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 154.108 $\pm$ 0.000  $\chi^2$ /NDF: 244713146.9/7

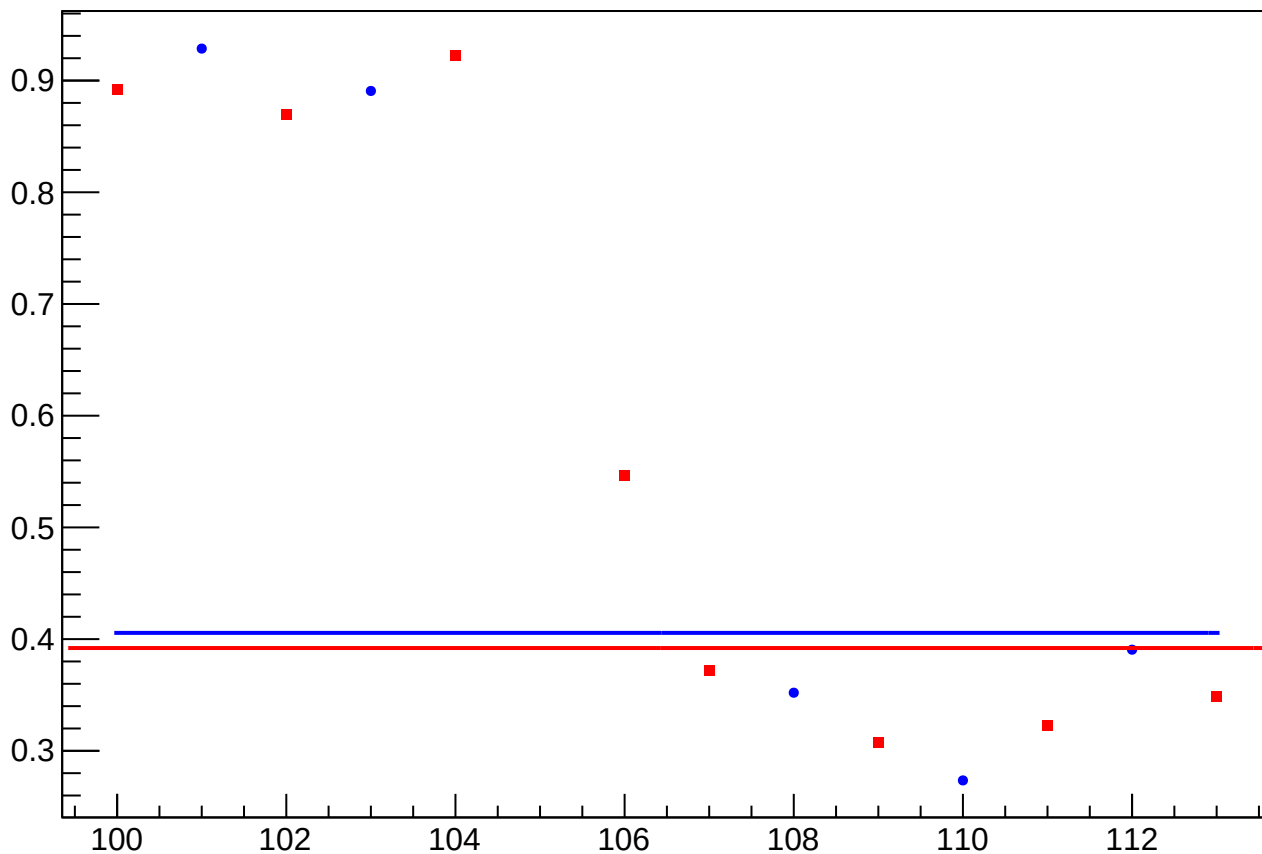
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 154.087 $\pm$ 0.000  $\chi^2$ /NDF: 260890997.4/1

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_an\_ds\_rms vs Slug



Right In: 0.406 $\pm$ 0.000  $\chi^2$ /NDF: 913859.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.392 $\pm$ 0.000  $\chi^2$ /NDF: 928002.3/7

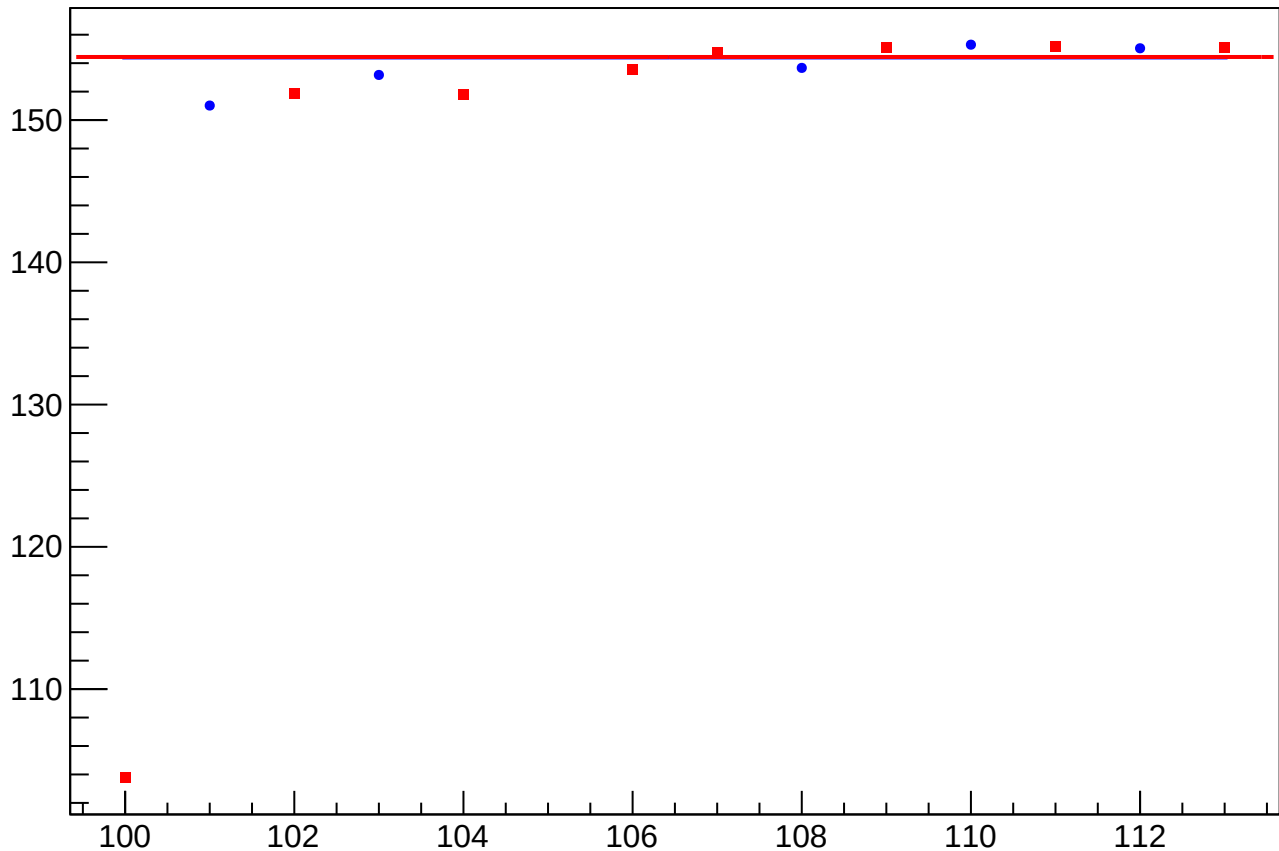
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.398 $\pm$ 0.000  $\chi^2$ /NDF: 1844383.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_an\_ds3\_mean vs Slug



Right In: 154.402 $\pm$ 0.000  $\chi^2$ /NDF: 15357899.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

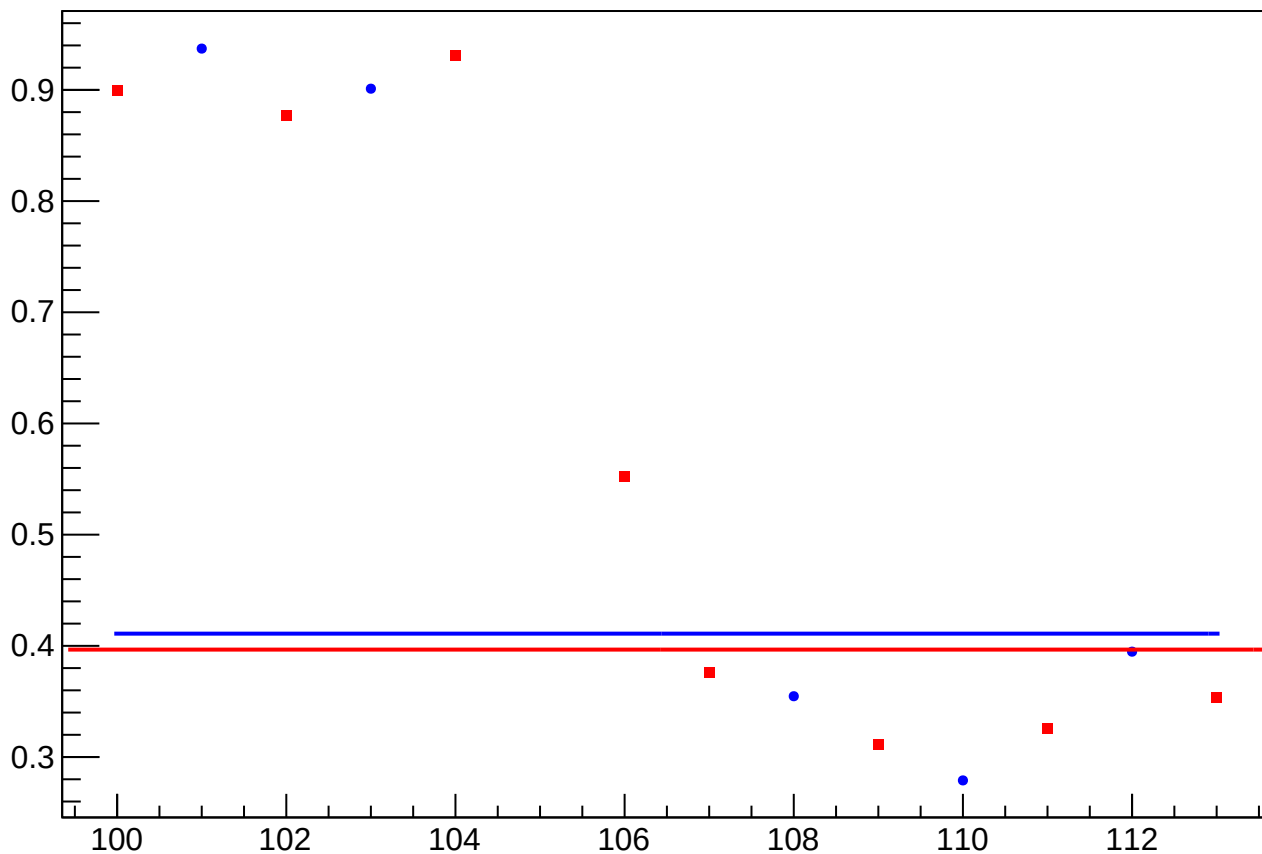
Right Out: 154.434 $\pm$ 0.000  $\chi^2$ /NDF: 244485822.8/7

All: 154.421 $\pm$ 0.000  $\chi^2$ /NDF: 259850828.9/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_an\_ds3\_rms vs Slug



Right In: 0.411+/-0.000  $\chi^2/\text{NDF}$ : 907322.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.397+/-0.000  $\chi^2/\text{NDF}$ : 924565.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

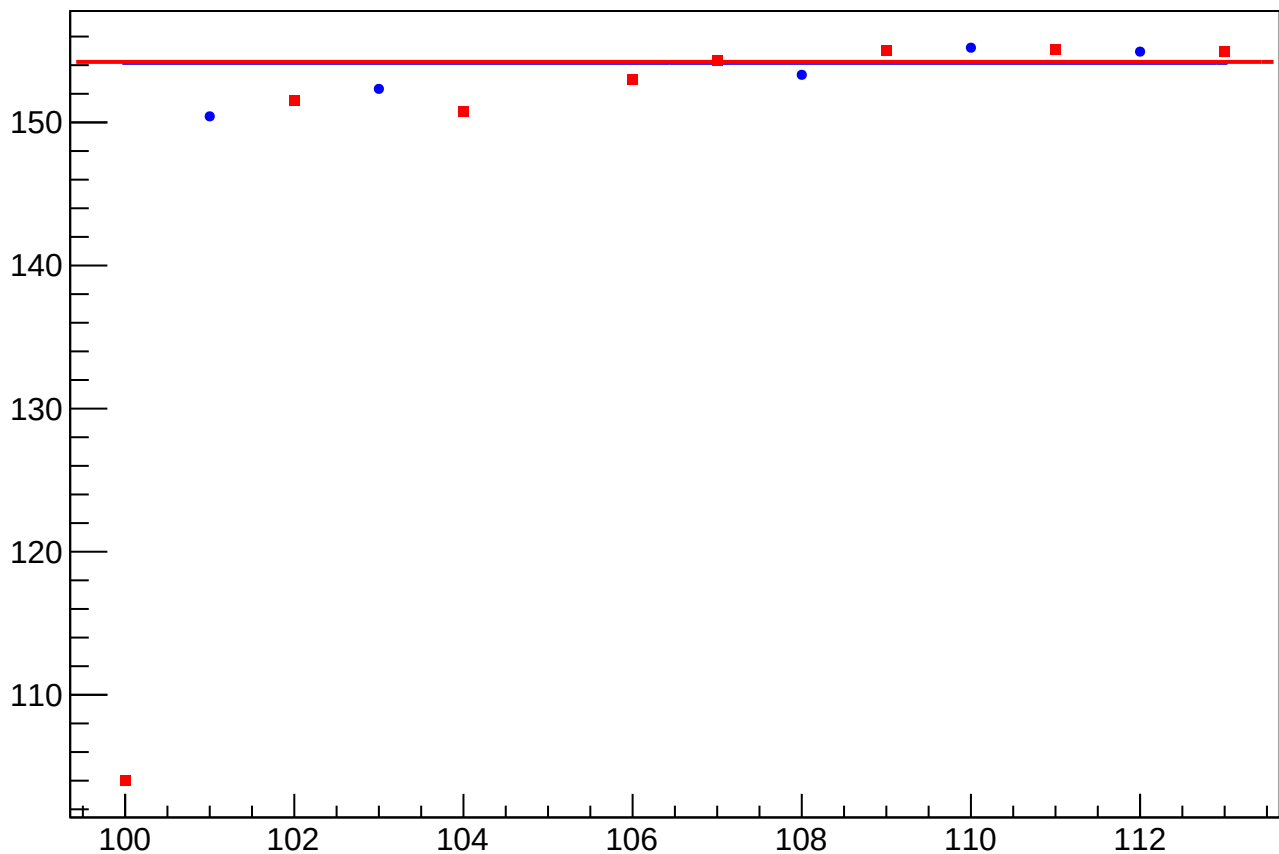
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.402+/-0.000  $\chi^2/\text{NDF}$ : 1834646.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bcm\_an\_us\_mean vs Slug



Right In: 154.166+/-0.000  $\chi^2/\text{NDF}$ : 20937415.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 154.231+/-0.000  $\chi^2/\text{NDF}$ : 249427452.7/7

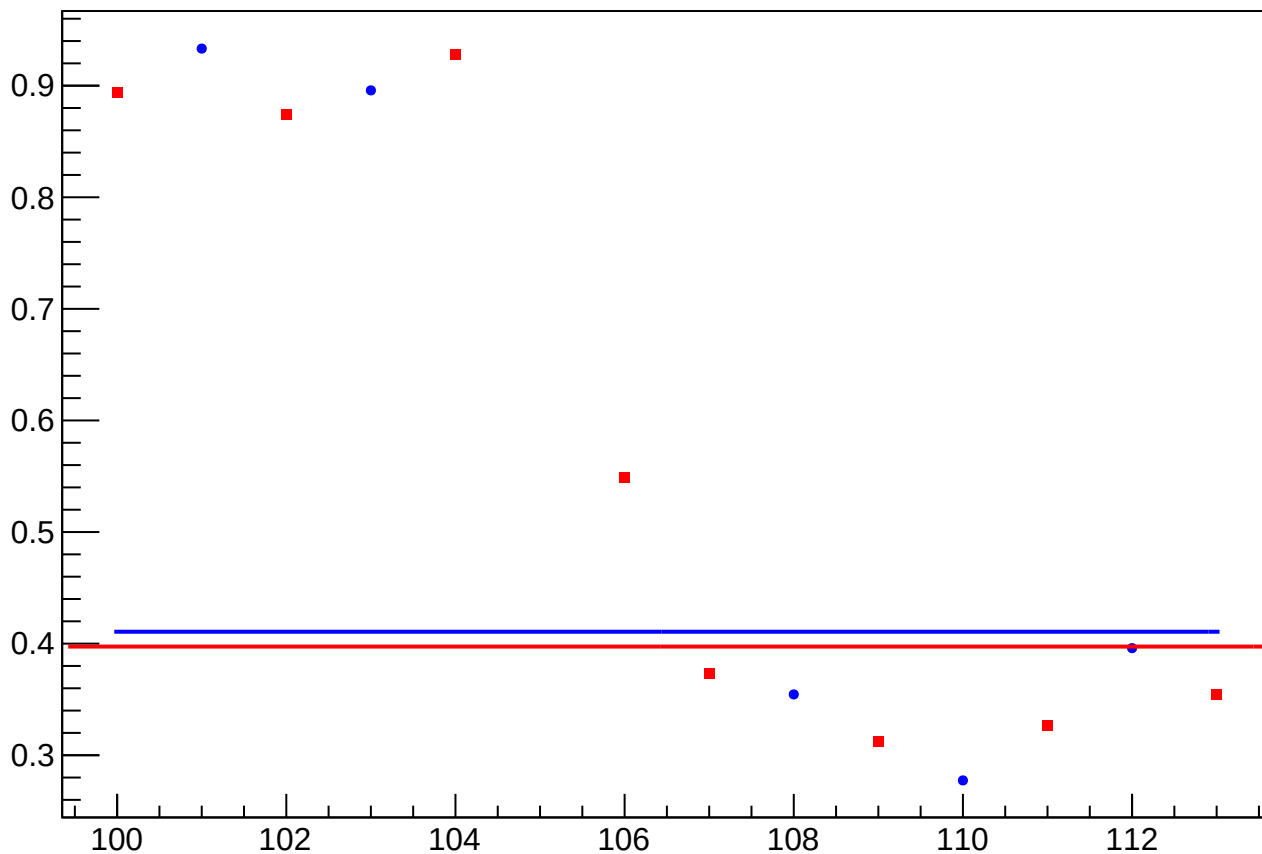
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 154.204+/-0.000  $\chi^2/\text{NDF}$ : 270392849.8/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_an\_us\_rms vs Slug



Right In: 0.411+/-0.000  $\chi^2/\text{NDF}$ : 904777.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.397+/-0.000  $\chi^2/\text{NDF}$ : 915211.2/7

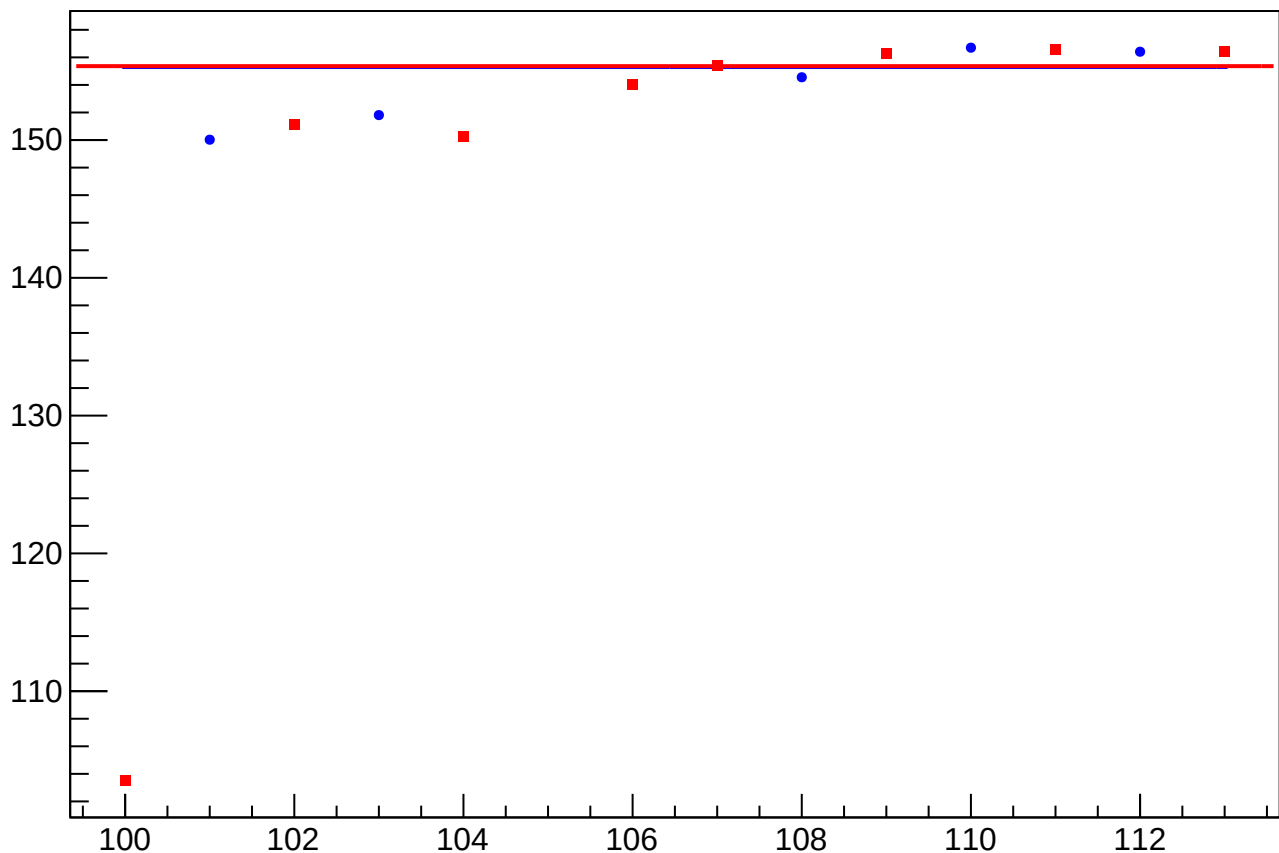
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.403+/-0.000  $\chi^2/\text{NDF}$ : 1822359.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_dg\_us\_mean vs Slug



Right In: 155.301+/-0.000  $\chi^2/\text{NDF}$ : 41419564.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 155.364+/-0.000  $\chi^2/\text{NDF}$ : 283864492.8/7

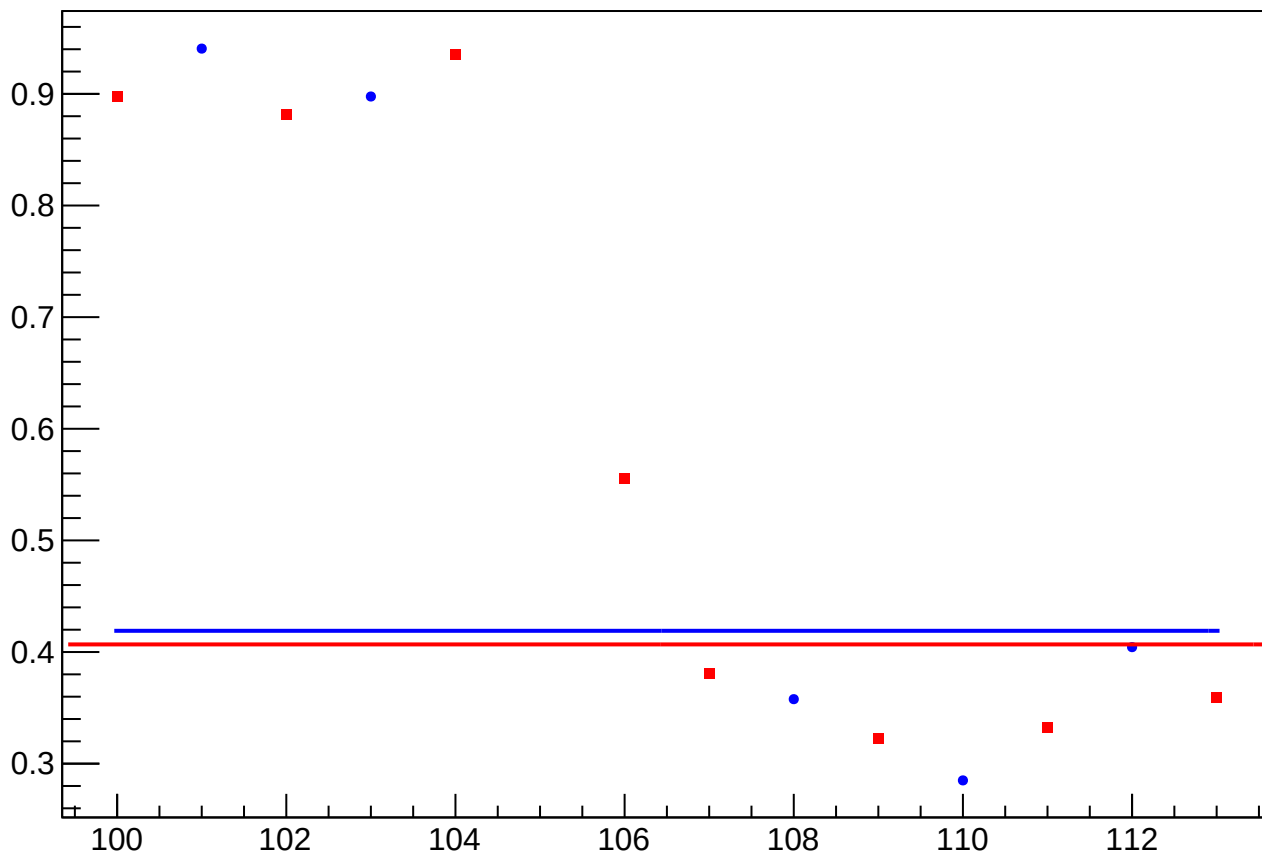
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 155.338+/-0.000  $\chi^2/\text{NDF}$ : 325309799.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_dg\_us\_rms vs Slug



Right In: 0.419+/-0.000  $\chi^2/\text{NDF}$ : 884524.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.407+/-0.000  $\chi^2/\text{NDF}$ : 892323.5/7

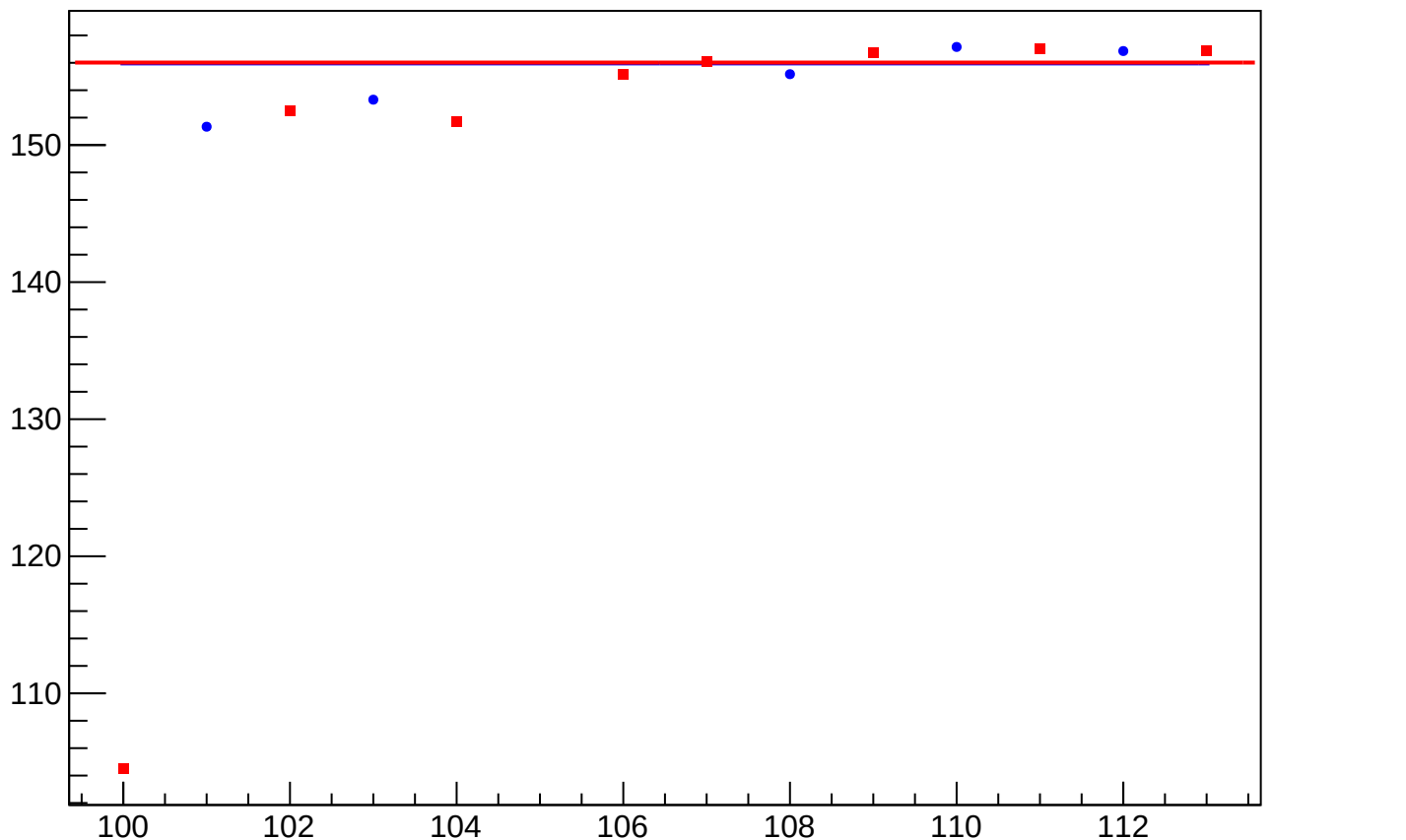
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.412+/-0.000  $\chi^2/\text{NDF}$ : 1778762.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_dg\_ds\_mean vs Slug



Right In: 155.956+/-0.000  $\chi^2/\text{NDF}$ : 29696311.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 156.018+/-0.000  $\chi^2/\text{NDF}$ : 260975840.7/7

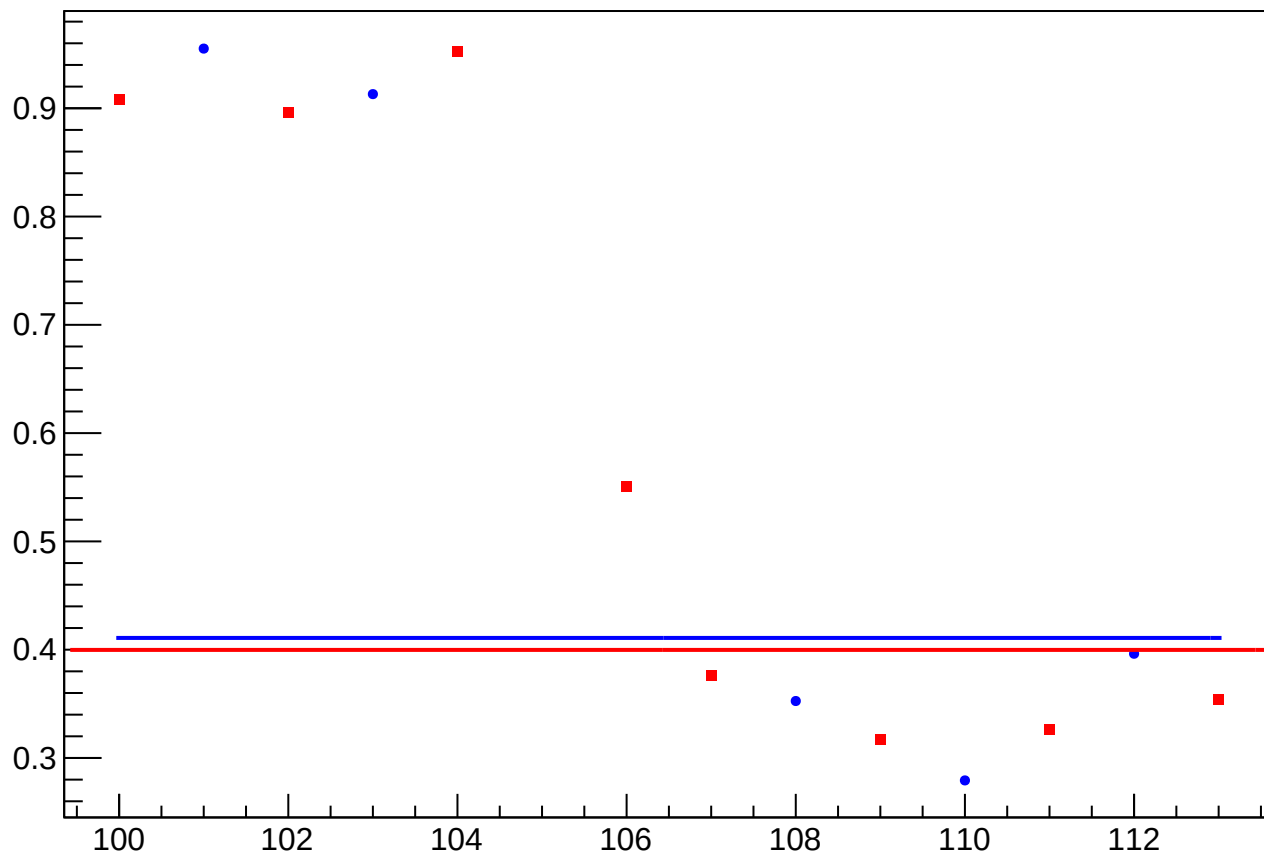
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 155.993+/-0.000  $\chi^2/\text{NDF}$ : 290697385.8/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_dg\_ds\_rms vs Slug



Right In: 0.411 $\pm$ 0.000  $\chi^2$ /NDF: 926942.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.400 $\pm$ 0.000  $\chi^2$ /NDF: 934767.3/7

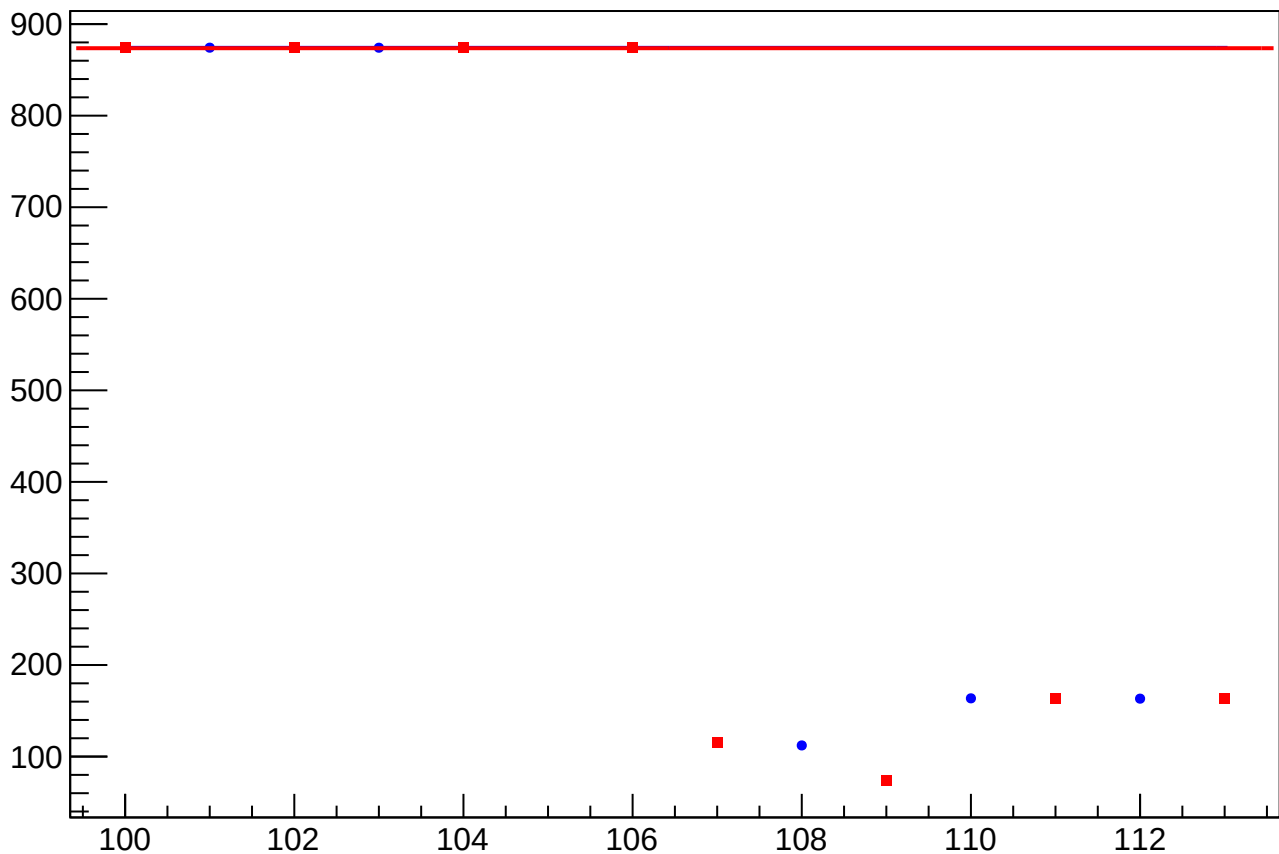
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.404 $\pm$ 0.000  $\chi^2$ /NDF: 1863331.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

yield\_cav4bQ\_mean vs Slug



Right In: 874.039 $\pm$ 0.000  $\chi^2$ /NDF: 951770102839.7/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

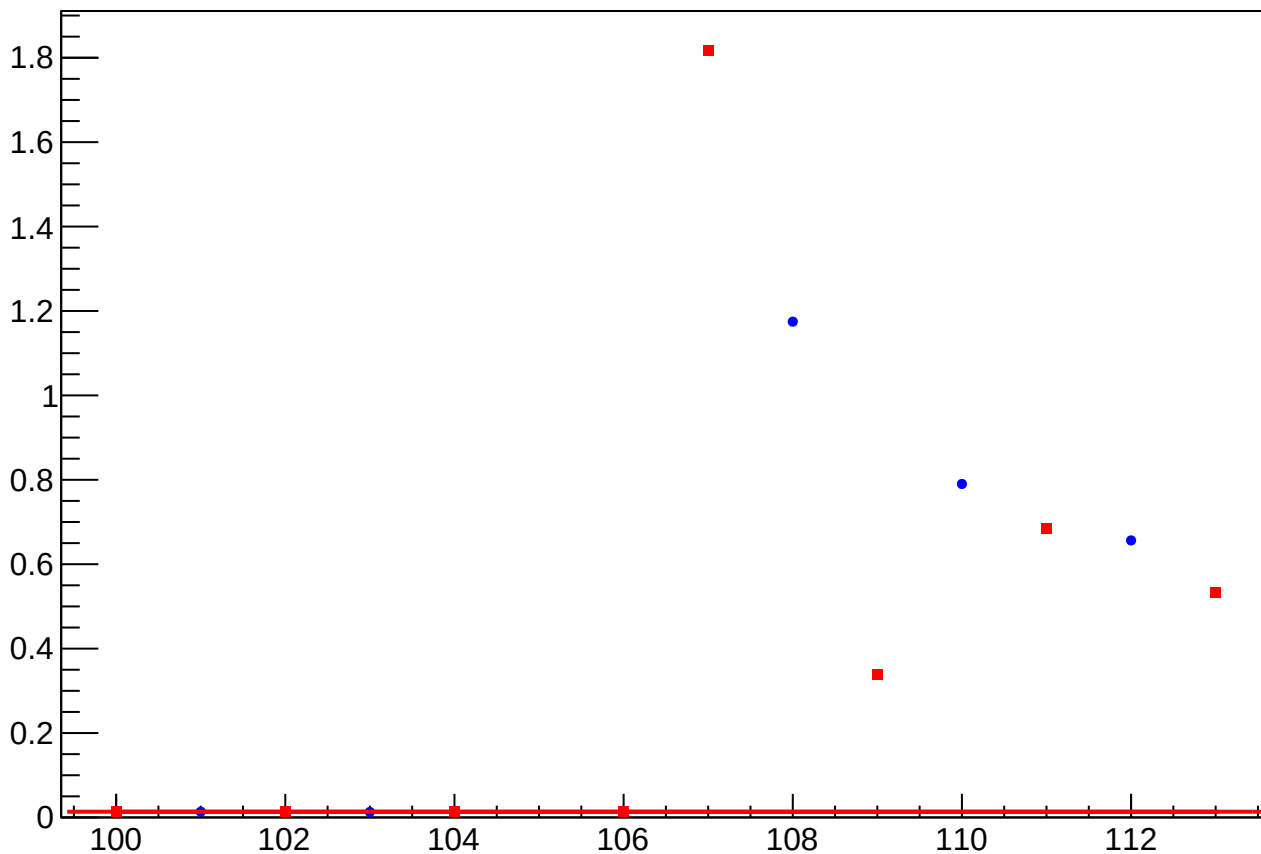
Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 873.663 $\pm$ 0.000  $\chi^2$ /NDF: 3285944106398.6/7 All: 873.838 $\pm$ 0.000  $\chi^2$ /NDF: 423825218182

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4bQ\_rms vs Slug



Right In: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 2149846.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 2615749.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

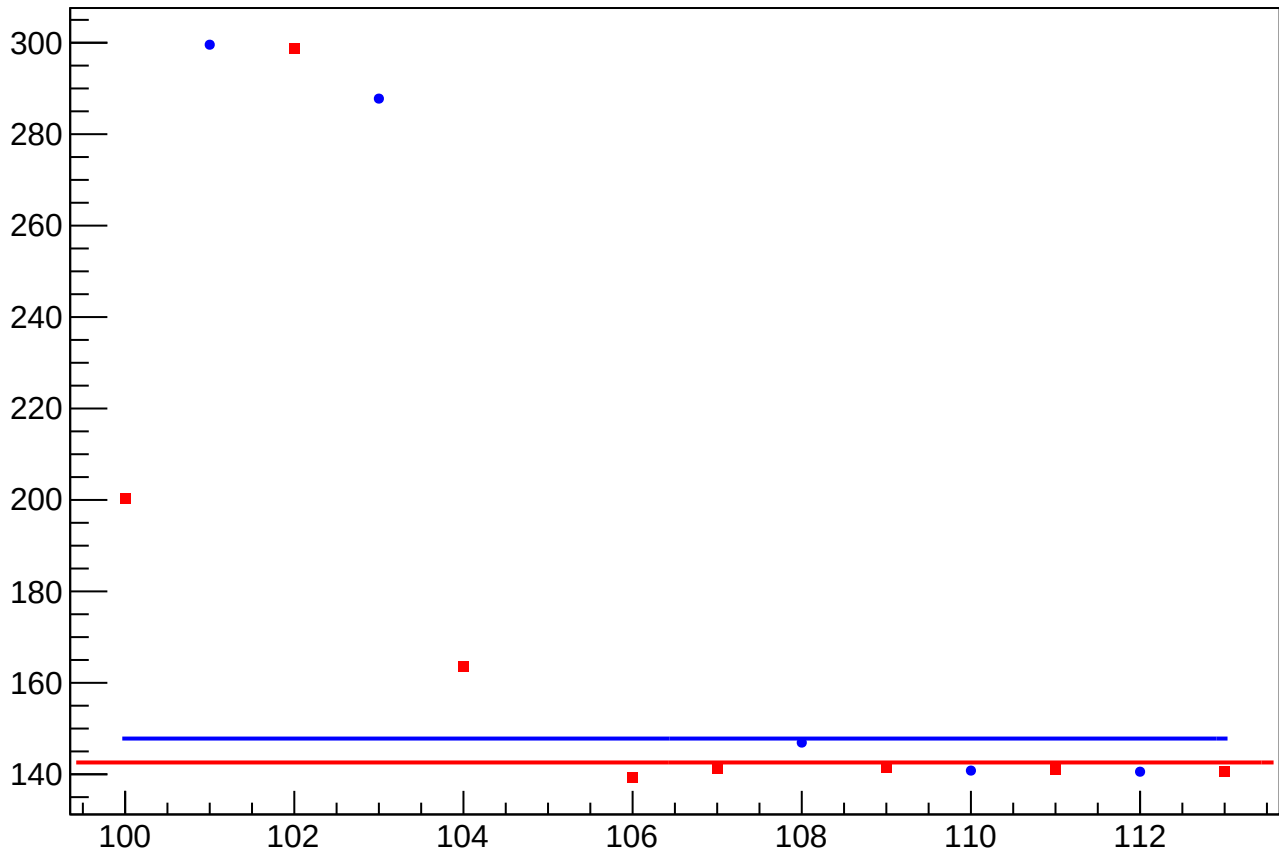
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 4765637.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_cav4cQ\_mean vs Slug



Right In: 147.813 $\pm$ 0.001  $\chi^2$ /NDF: 578702643.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

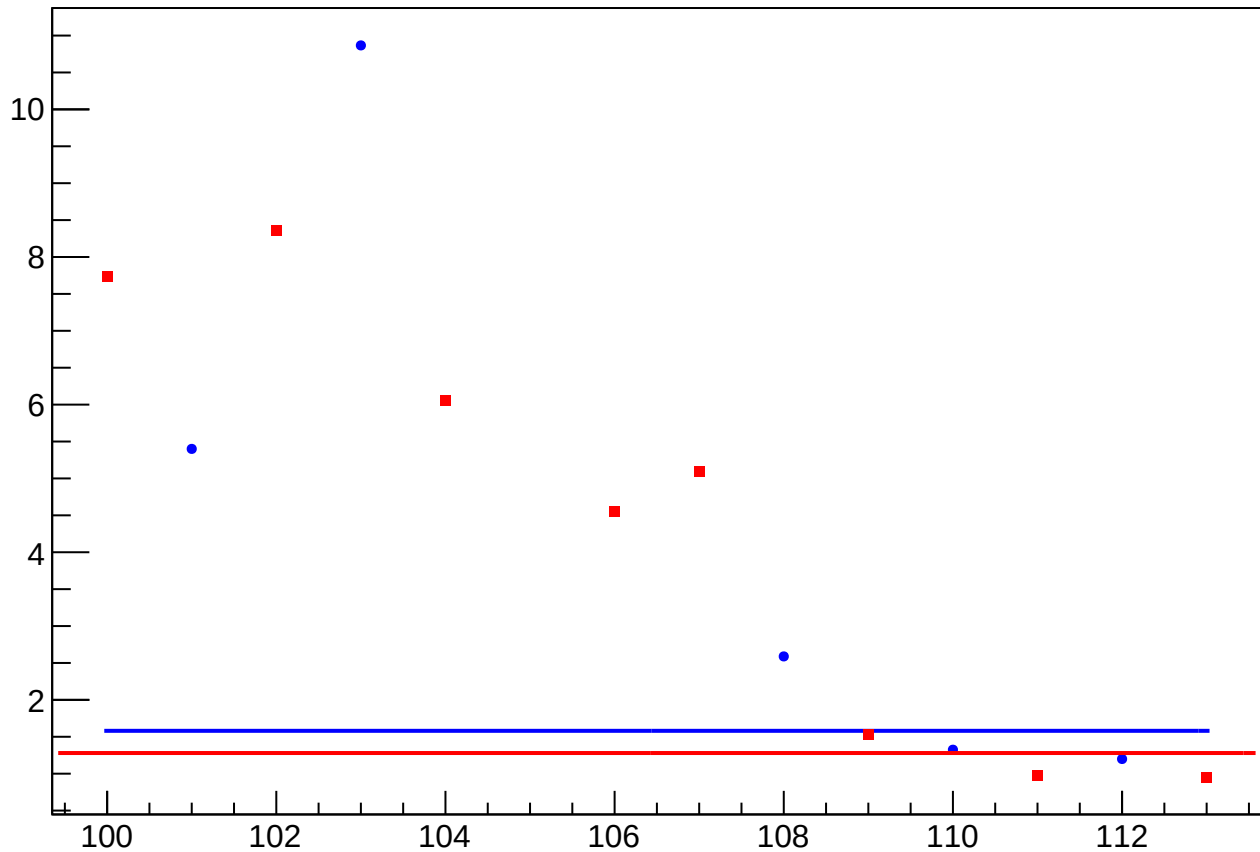
Right Out: 142.582 $\pm$ 0.001  $\chi^2$ /NDF: 215728575.5/7

All: 144.490 $\pm$ 0.001  $\chi^2$ /NDF: 804558982.1/1

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4cQ\_rms vs Slug



Right In: 1.581 $\pm$ 0.001  $\chi^2$ /NDF: 1656161.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.280 $\pm$ 0.001  $\chi^2$ /NDF: 2203463.5/7

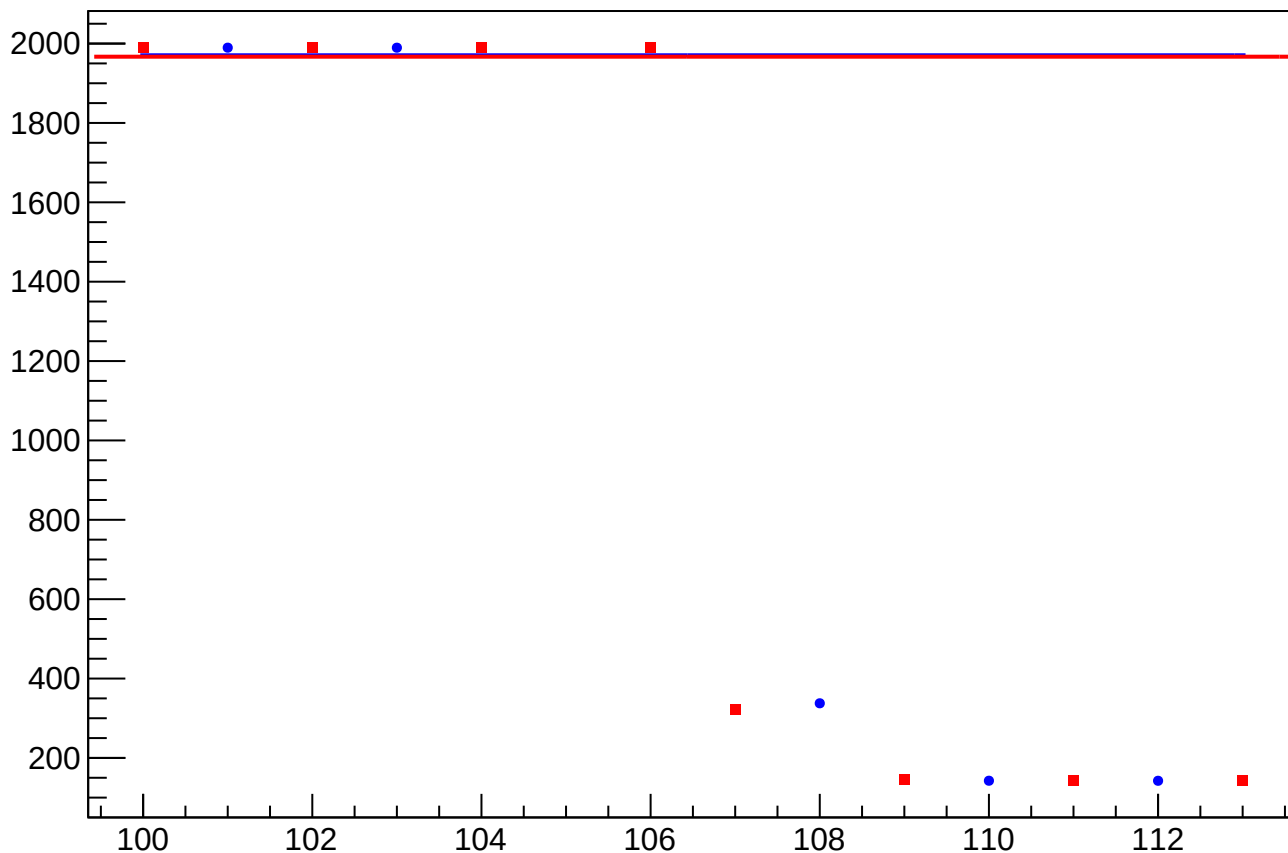
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.389 $\pm$ 0.001  $\chi^2$ /NDF: 3926585.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4dQ\_mean vs Slug



Right In: 1970.506+/-0.000  $\chi^2/\text{NDF}$ : 18500666229929.7/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

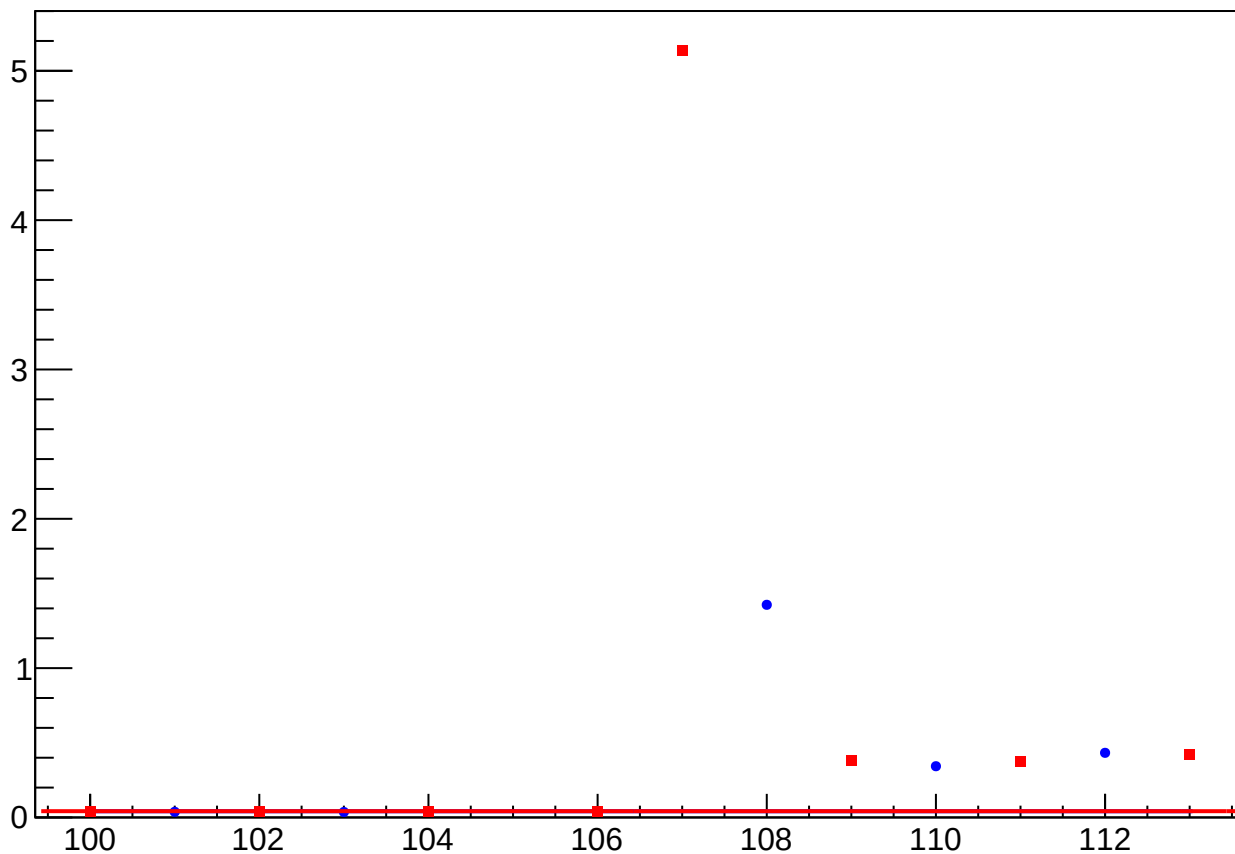
All: 1968.571+/-0.000  $\chi^2/\text{NDF}$ : 44535264513

Right Out: 1966.941+/-0.000  $\chi^2/\text{NDF}$ : 26030941940640.8/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dQ\_rms vs Slug



Right In: 0.042 $\pm$ 0.000  $\chi^2$ /NDF: 1917994.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.042 $\pm$ 0.000  $\chi^2$ /NDF: 2256338.5/7

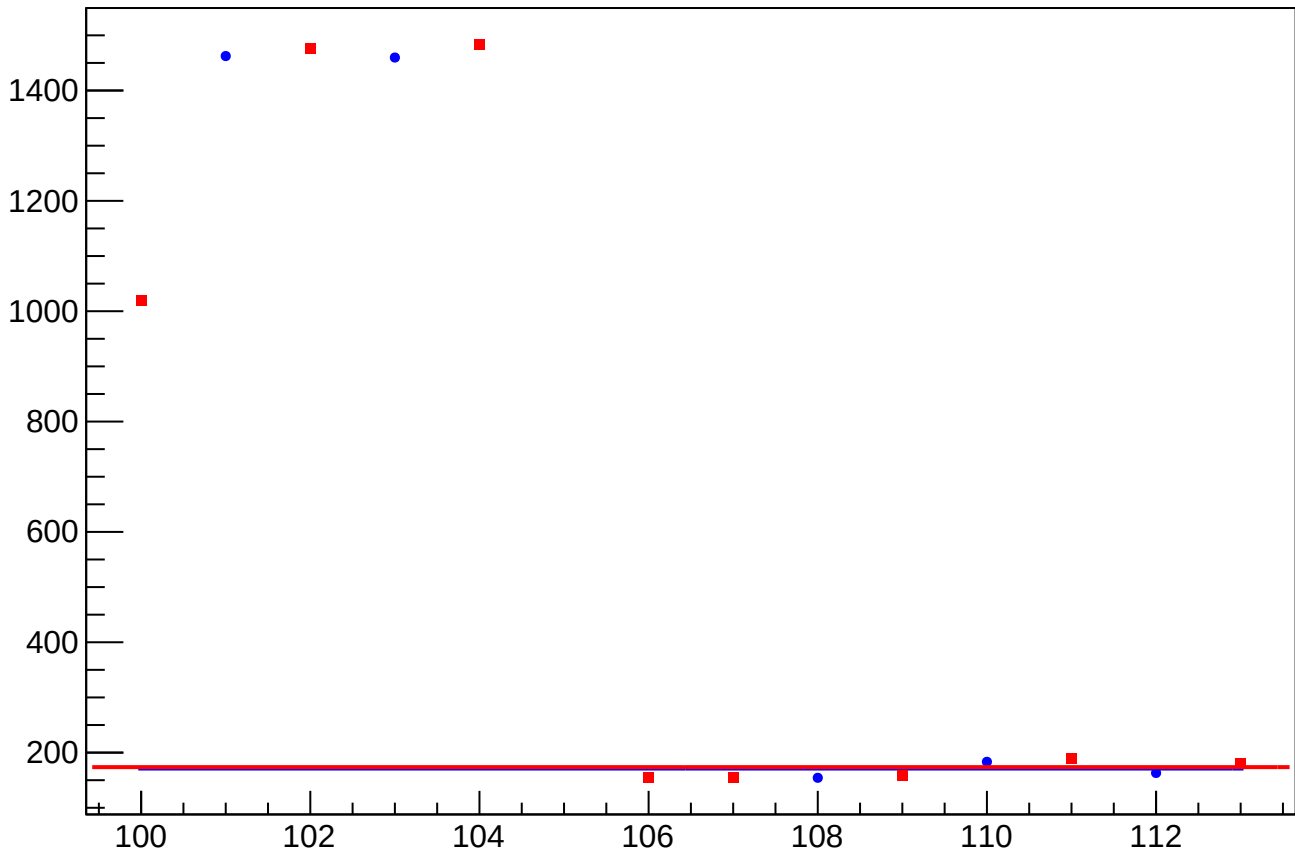
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.042 $\pm$ 0.000  $\chi^2$ /NDF: 4174474.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm0l02\_mean vs Slug



Right In: 171.124+/-0.001  $\chi^2/\text{NDF}$ : 14214282779.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 173.685+/-0.001  $\chi^2/\text{NDF}$ : 15967343718.2/7

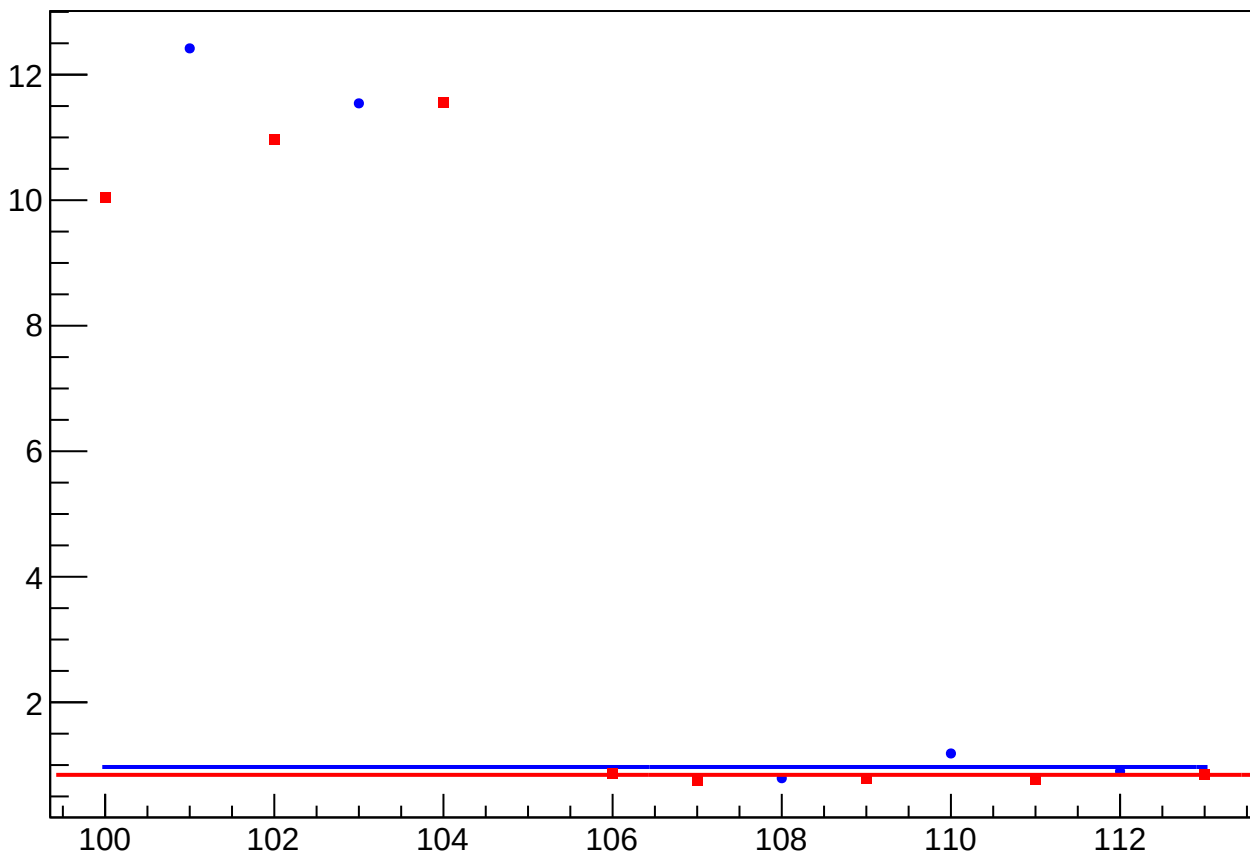
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 172.784+/-0.001  $\chi^2/\text{NDF}$ : 30186743519.0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm0l02\_rms vs Slug



Right In: 0.969 $\pm$ 0.001  $\chi^2$ /NDF: 2094887.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.844 $\pm$ 0.000  $\chi^2$ /NDF: 2025995.7/7

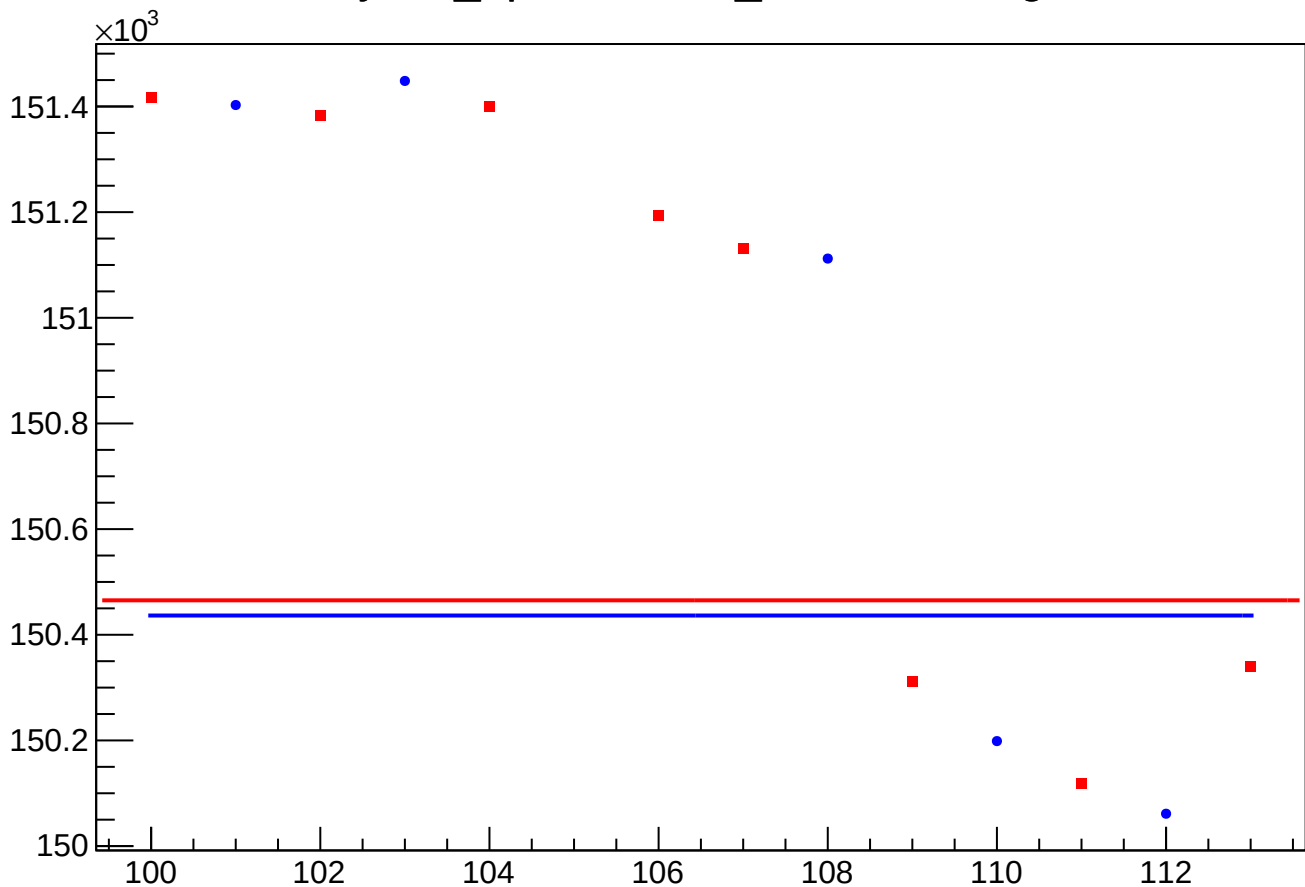
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.888 $\pm$ 0.000  $\chi^2$ /NDF: 4145392.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i01WS\_mean vs Slug



Right In: 150436.438 $\pm$ 0.094  $\chi^2$ /NDF: 28230664.5/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

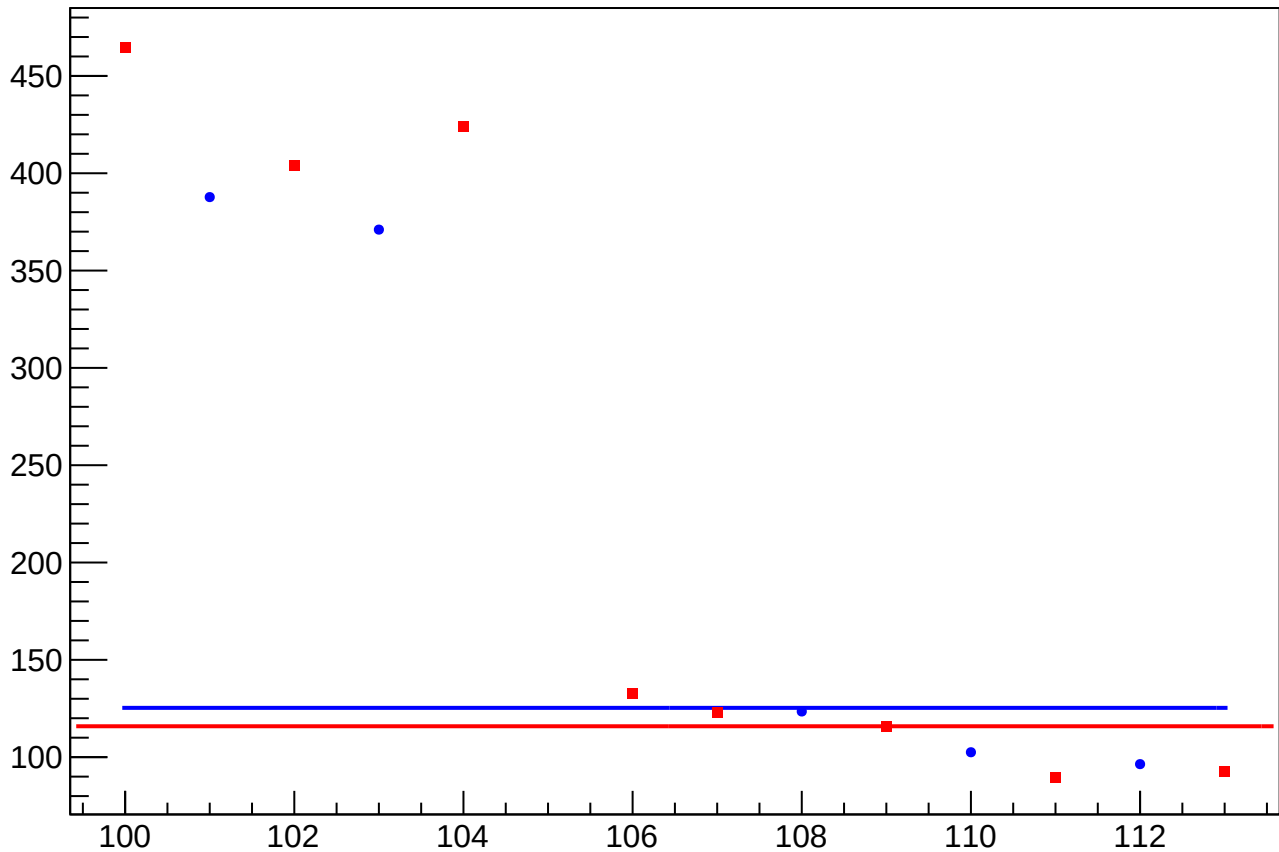
All: 150454.124 $\pm$ 0.058  $\chi^2$ /NDF: 59078539.

Right Out: 150465.191 $\pm$ 0.074  $\chi^2$ /NDF: 30789901.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i01WS\_rms vs Slug



Right In: 125.331+/-0.066  $\chi^2/\text{NDF}$ : 1212520.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 115.873+/-0.052  $\chi^2/\text{NDF}$ : 1426901.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

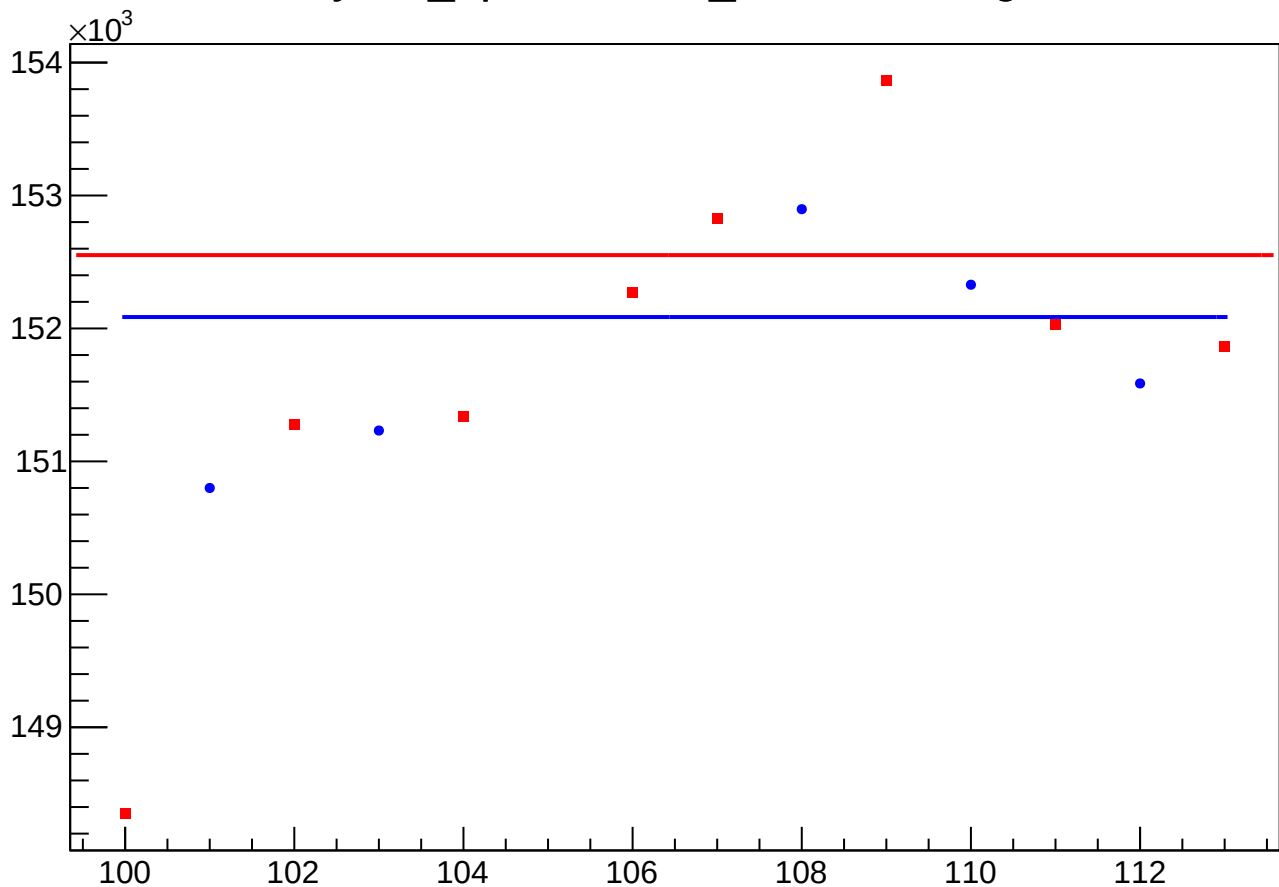
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 119.513+/-0.041  $\chi^2/\text{NDF}$ : 2651967.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i07WS\_mean vs Slug



Right In: 152085.826 $\pm$ 0.139  $\chi^2$ /NDF: 23859227.2/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

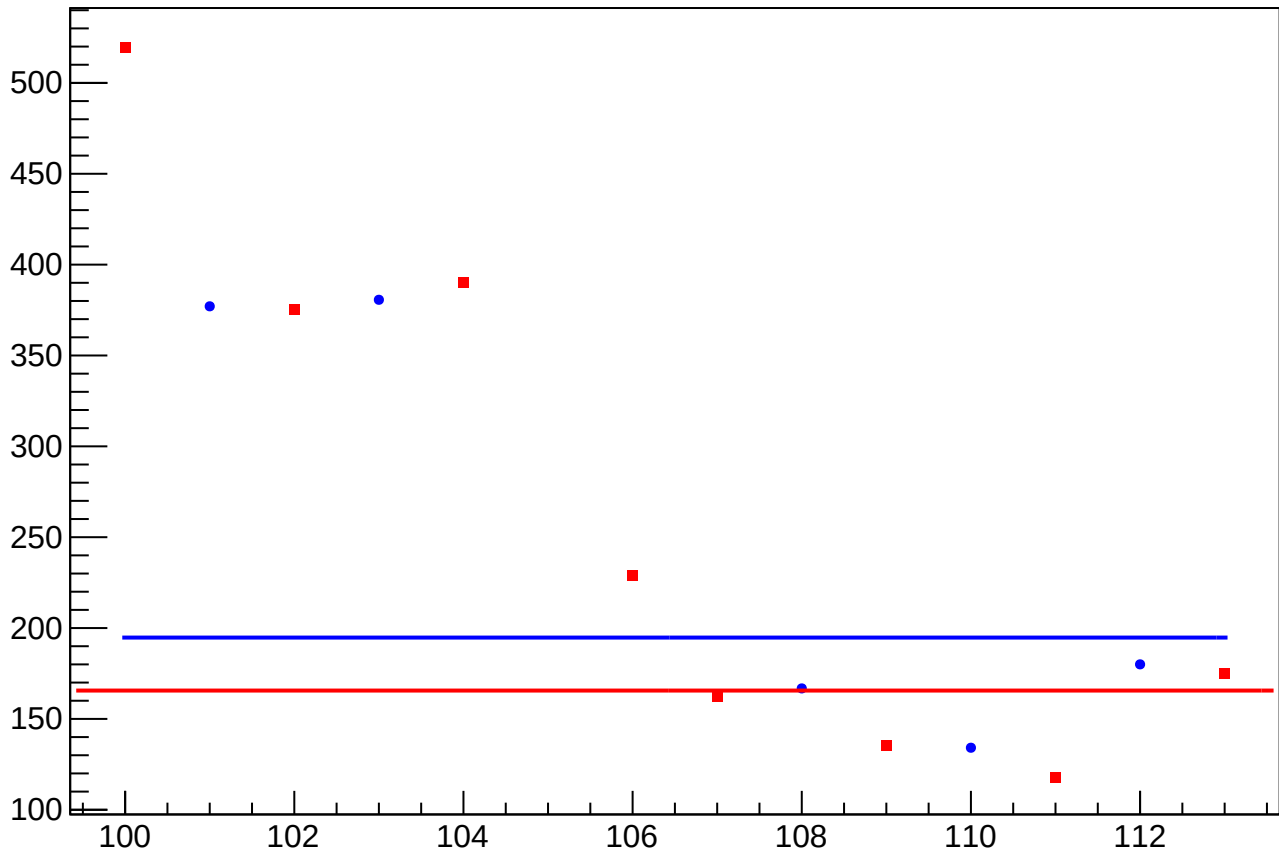
Right Out: 152551.732 $\pm$ 0.106  $\chi^2$ /NDF: 76119658.0/7

All: 152380.616 $\pm$ 0.084  $\chi^2$ /NDF: 10712606.0/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i07WS\_rms vs Slug



Right In: 194.763 $\pm$ 0.098  $\chi^2$ /NDF: 748943.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 165.604 $\pm$ 0.075  $\chi^2$ /NDF: 1041245.5/7

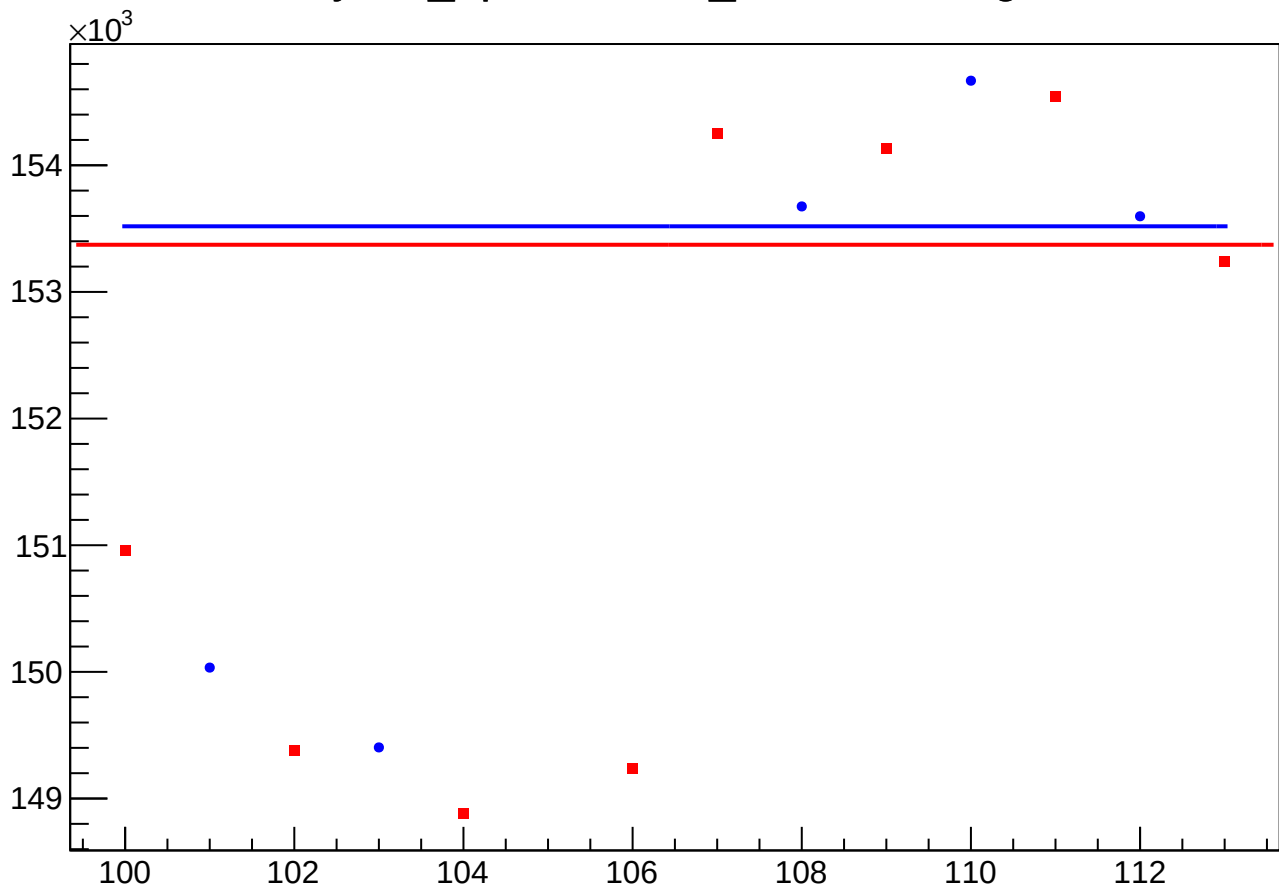
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 176.314 $\pm$ 0.059  $\chi^2$ /NDF: 1846181.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i01WS\_mean vs Slug



Right In: 153518.144 $\pm$ 0.116  $\chi^2$ /NDF: 142292905.8/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

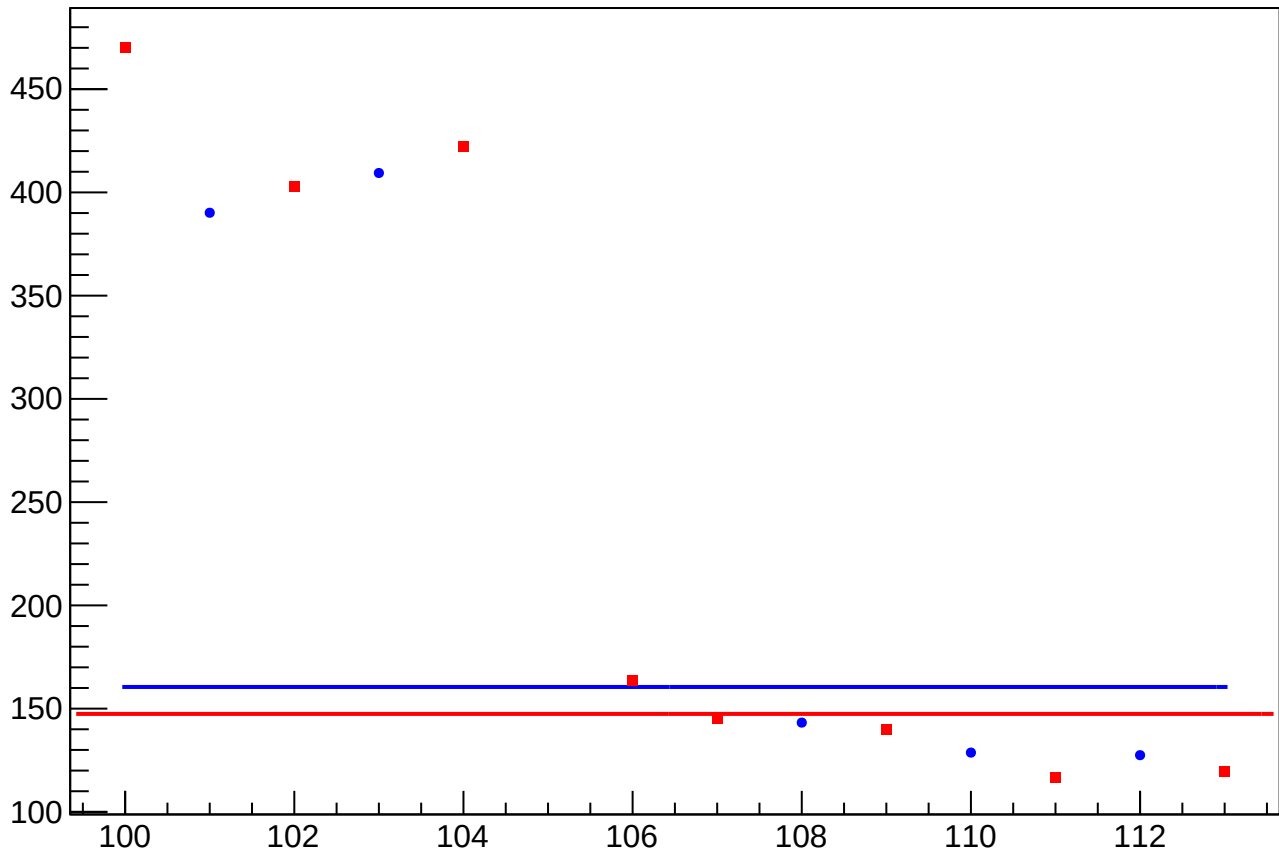
Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 153372.433 $\pm$ 0.094  $\chi^2$ /NDF: 323714999.9/7 All: 153430.018 $\pm$ 0.073  $\chi^2$ /NDF: 466965937

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i01WS\_rms vs Slug



Right In: 160.495 $\pm$ 0.082  $\chi^2$ /NDF: 1012674.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 147.447 $\pm$ 0.066  $\chi^2$ /NDF: 1141726.0/7

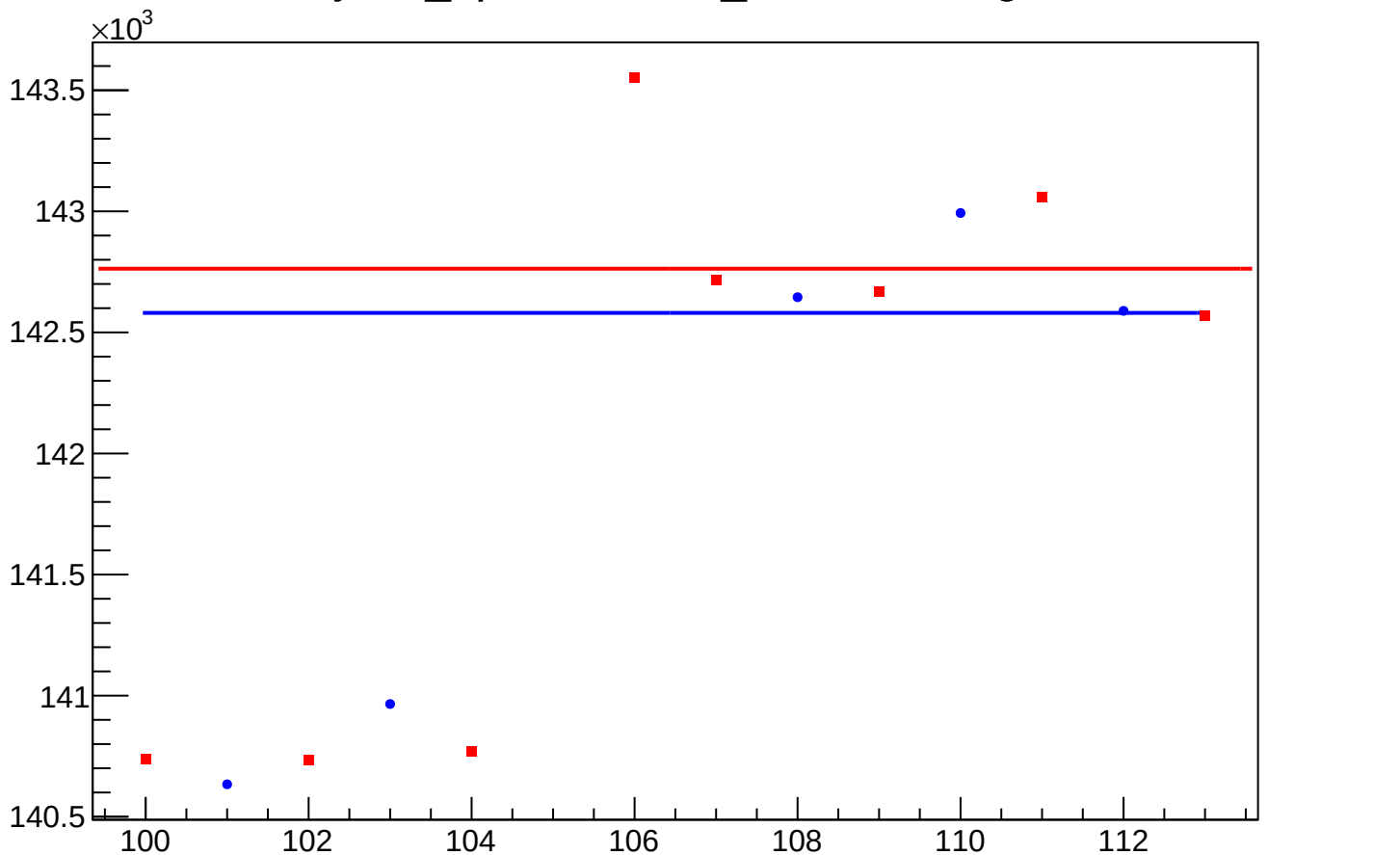
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 152.603 $\pm$ 0.051  $\chi^2$ /NDF: 2169765.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i01aWS\_mean vs Slug



Right In: 142580.623 $\pm$ 0.090  $\chi^2$ /NDF: 37757421.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

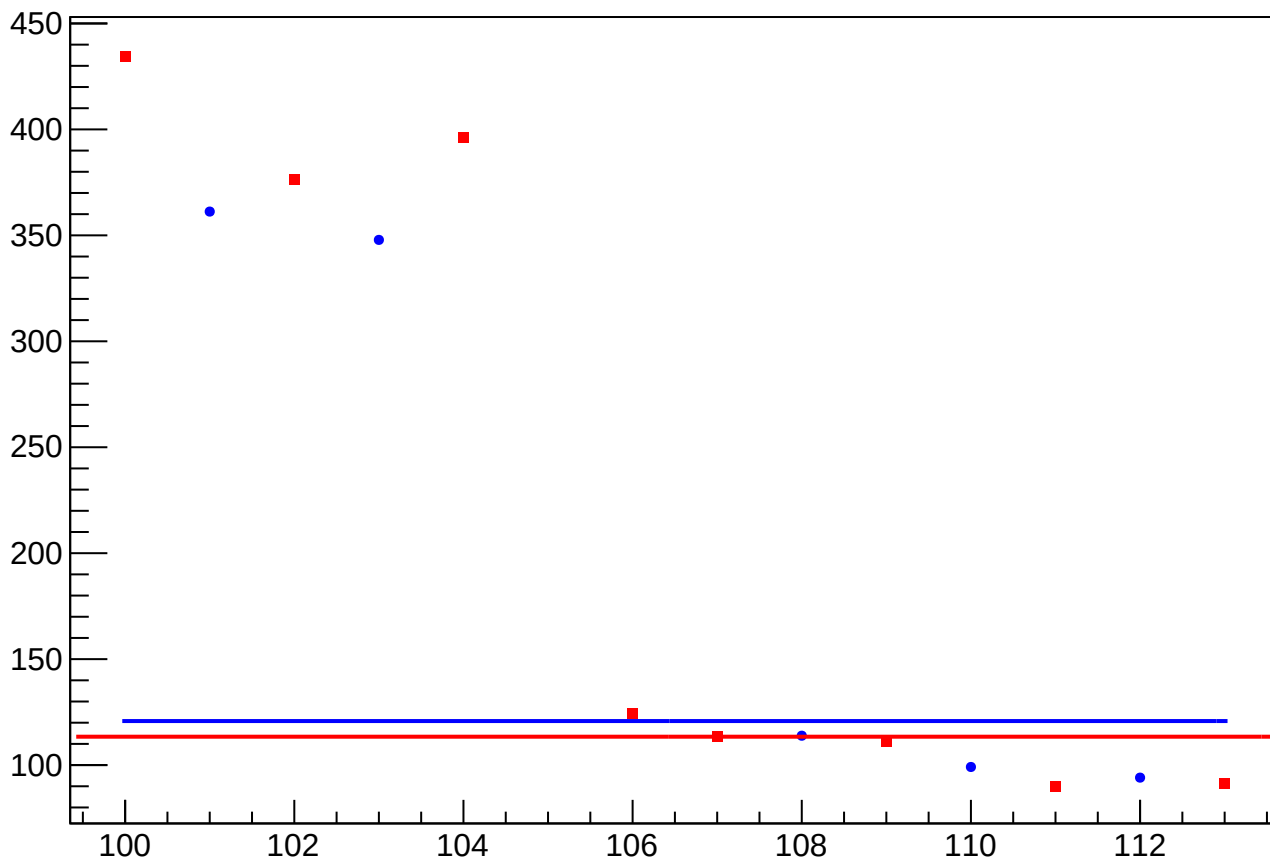
Right Out: 142763.096 $\pm$ 0.072  $\chi^2$ /NDF: 53135388.8/7

All: 142691.750 $\pm$ 0.056  $\chi^2$ /NDF: 93408187.

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i01aWS\_rms vs Slug



Right In: 120.781+/-0.063  $\chi^2/\text{NDF}$ : 1174895.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 113.397+/-0.051  $\chi^2/\text{NDF}$ : 1353453.3/7

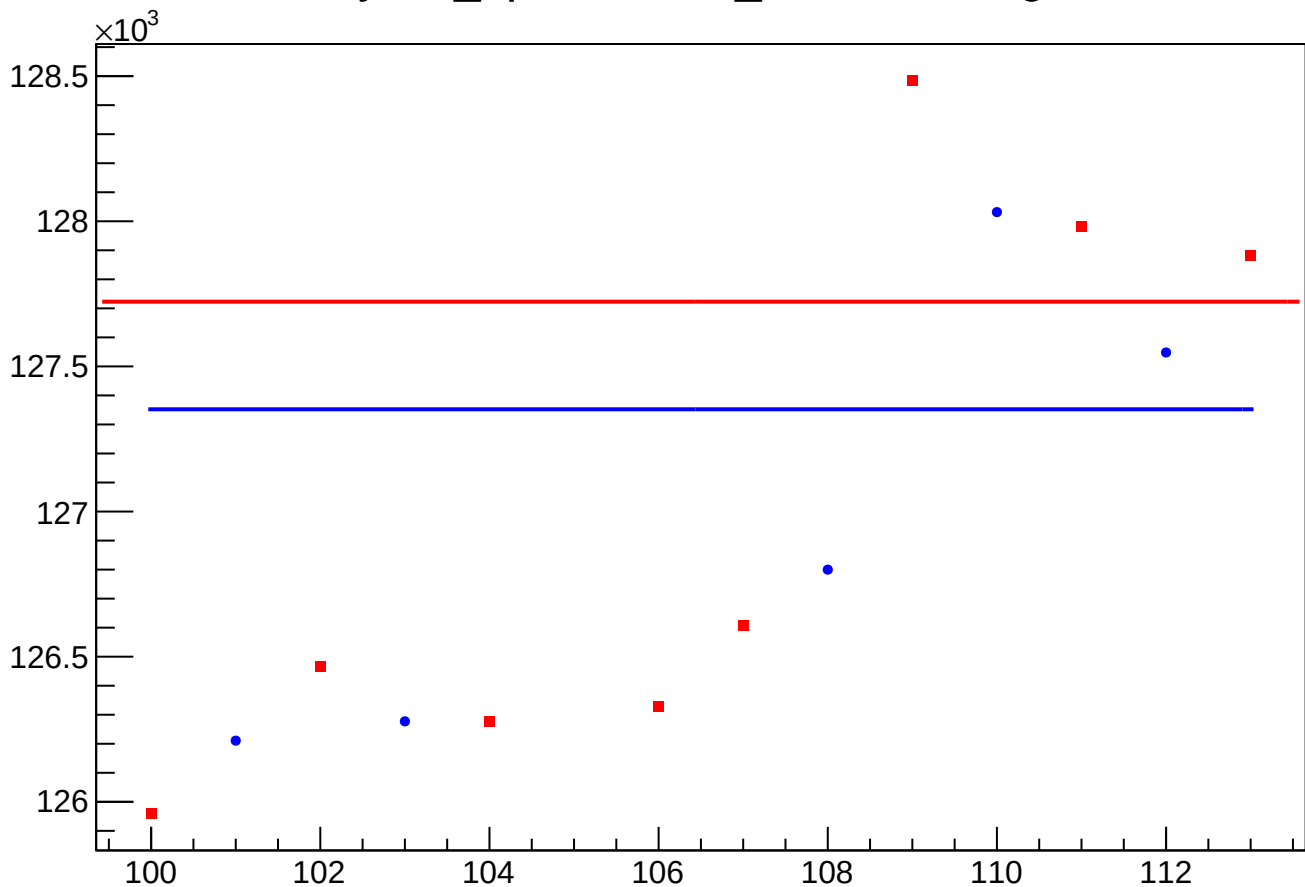
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 116.284+/-0.040  $\chi^2/\text{NDF}$ : 2536586.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l01WS\_mean vs Slug



Right In: 127352.289 $\pm$ 0.111  $\chi^2$ /NDF: 35955965.7/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

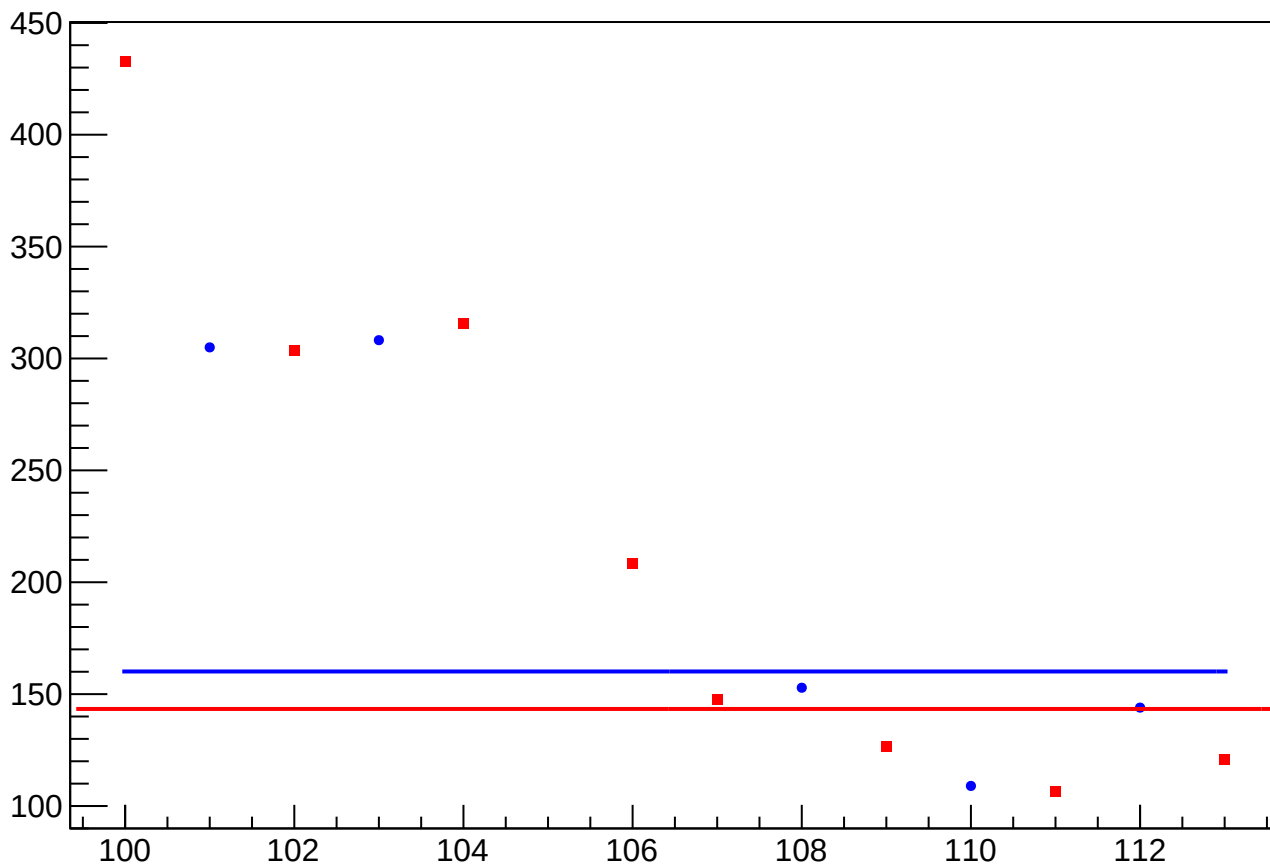
All: 127580.385 $\pm$ 0.069  $\chi^2$ /NDF: 113055024

Right Out: 127723.057 $\pm$ 0.088  $\chi^2$ /NDF: 70278913.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l01WS\_rms vs Slug



Right In: 160.123+/-0.079  $\chi^2/\text{NDF}$ : 741019.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 143.374+/-0.062  $\chi^2/\text{NDF}$ : 938729.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

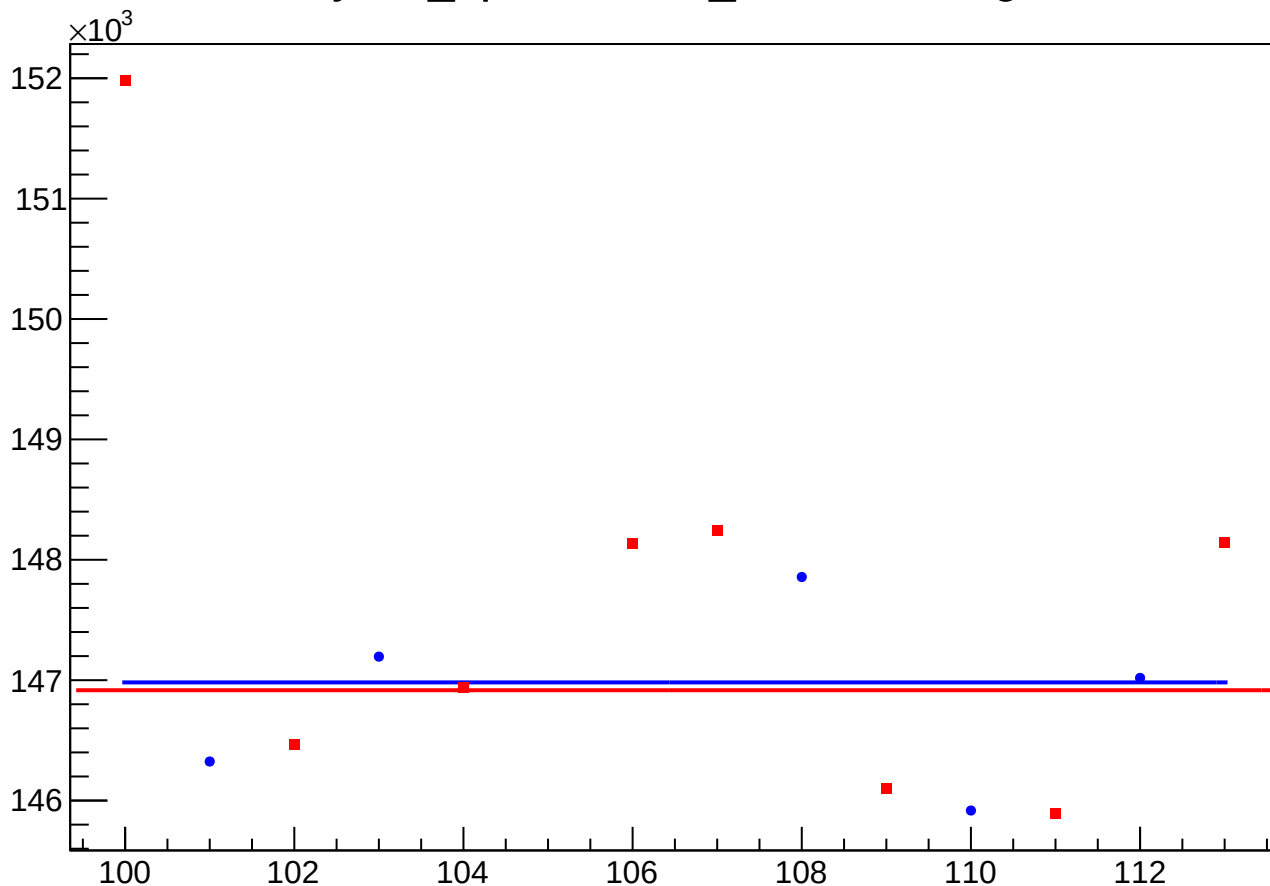
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 149.819+/-0.049  $\chi^2/\text{NDF}$ : 1707583.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l02WS\_mean vs Slug



Right In: 146981.573 $\pm$ 0.163  $\chi^2$ /NDF: 21353386.6/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

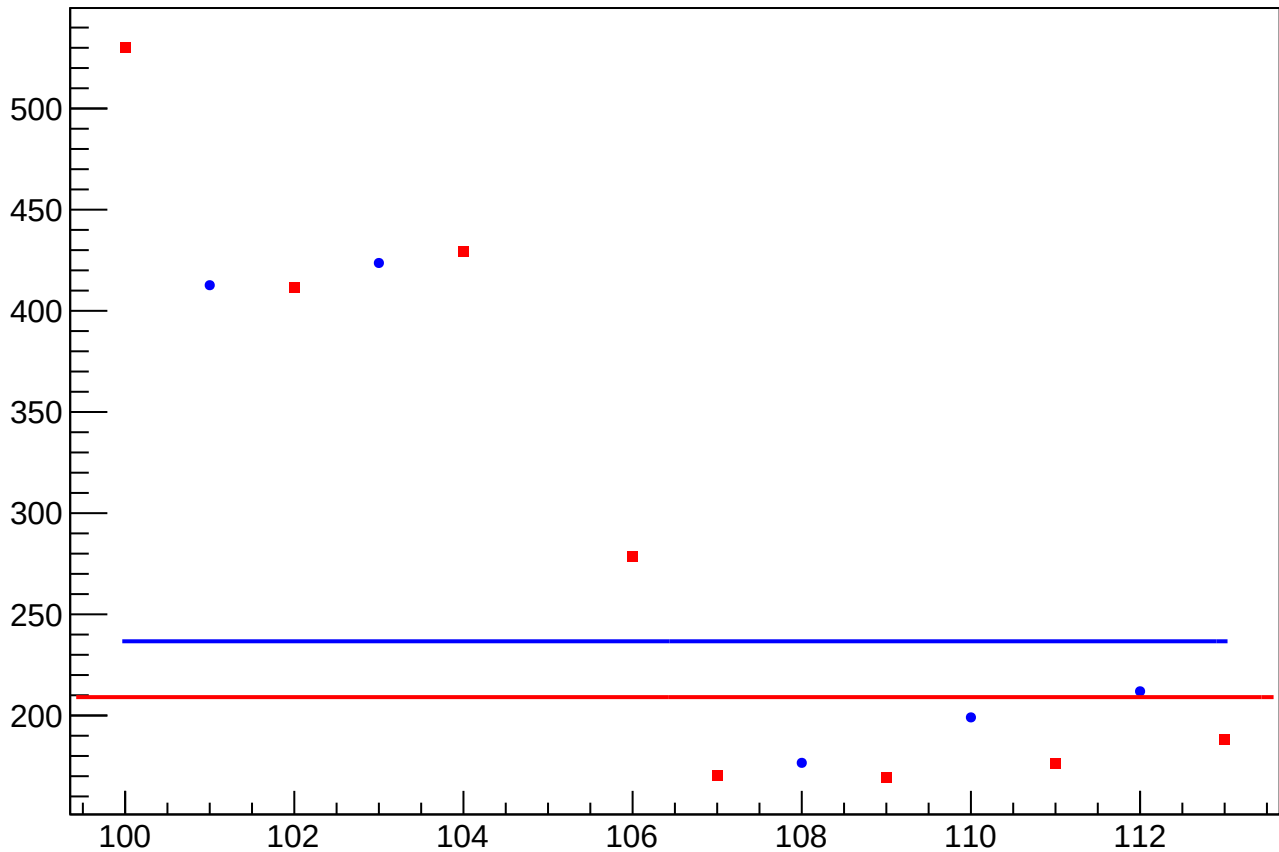
Right Out: 146916.476 $\pm$ 0.128  $\chi^2$ /NDF: 70193415.4/7

All: 146941.336 $\pm$ 0.101  $\chi^2$ /NDF: 91645586.6/11

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l02WS\_rms vs Slug



Right In: 236.678 $\pm$ 0.115  $\chi^2$ /NDF: 599635.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 209.082 $\pm$ 0.091  $\chi^2$ /NDF: 788893.7/7

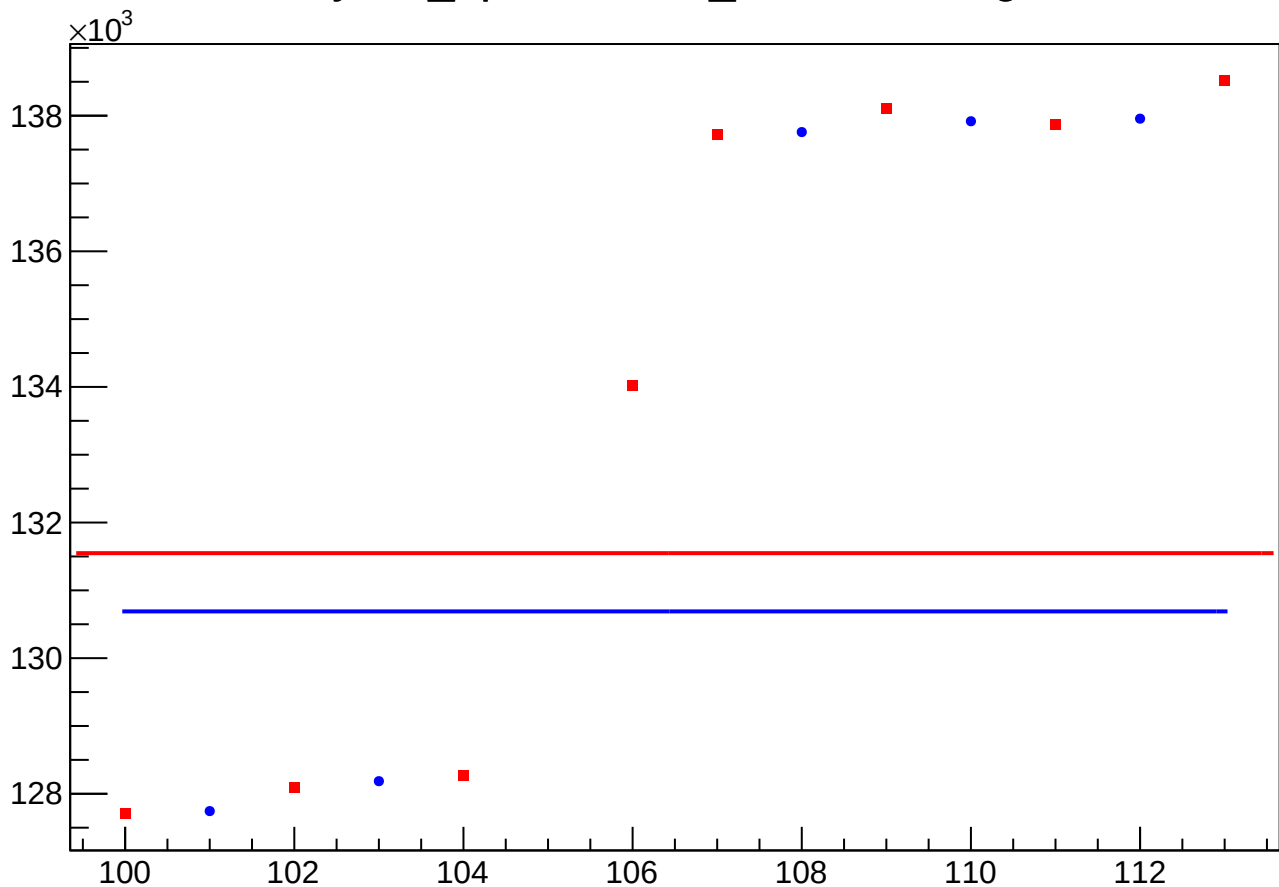
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 219.620 $\pm$ 0.071  $\chi^2$ /NDF: 1424035.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l03WS\_mean vs Slug



Right In: 130689.636 $\pm$ 0.240  $\chi^2$ /NDF: 341032643.0/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

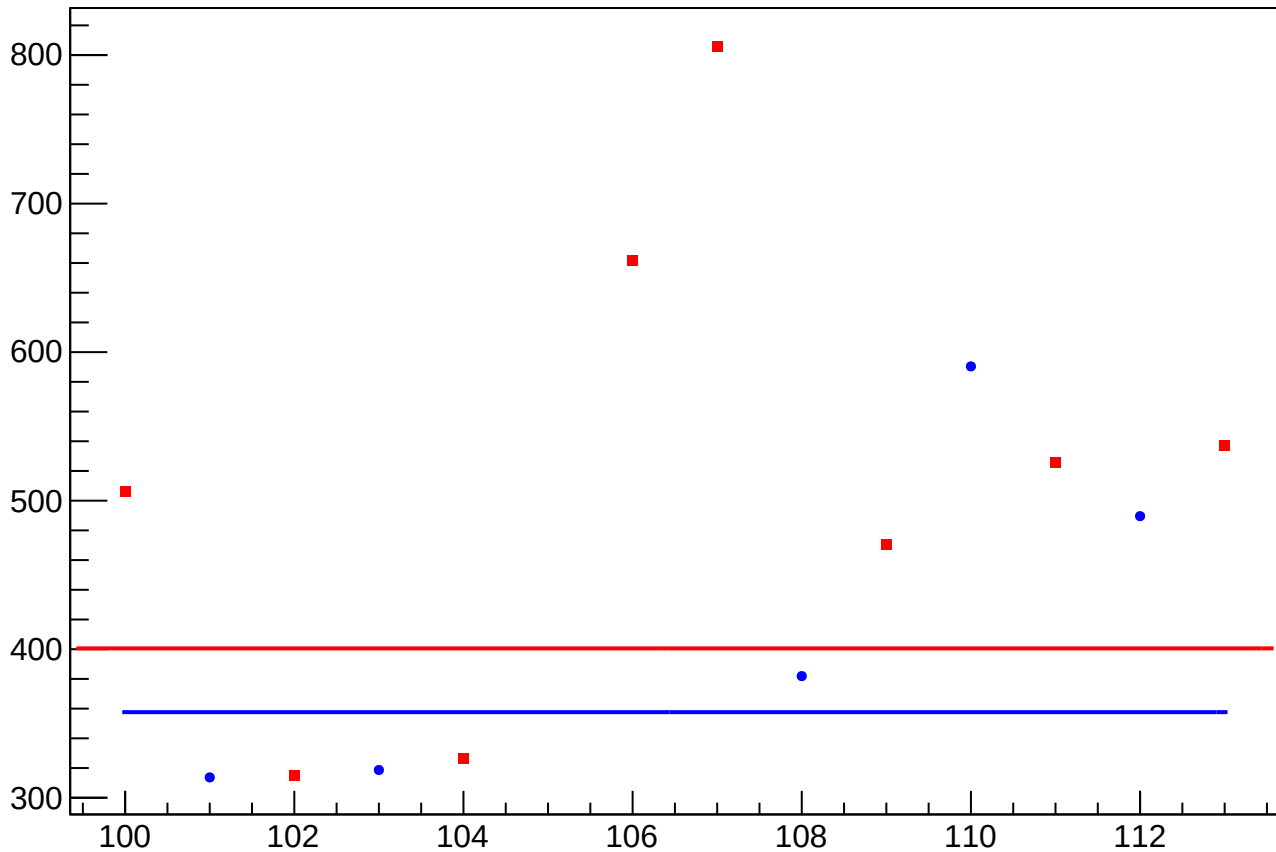
Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 131548.626 $\pm$ 0.236  $\chi^2$ /NDF: 385832078.3/7 All: 131127.651 $\pm$ 0.168  $\chi^2$ /NDF: 733379190

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l03WS\_rms vs Slug



Right In: 357.625 $\pm$ 0.170  $\chi^2$ /NDF: 216073.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 400.561 $\pm$ 0.167  $\chi^2$ /NDF: 488917.1/7

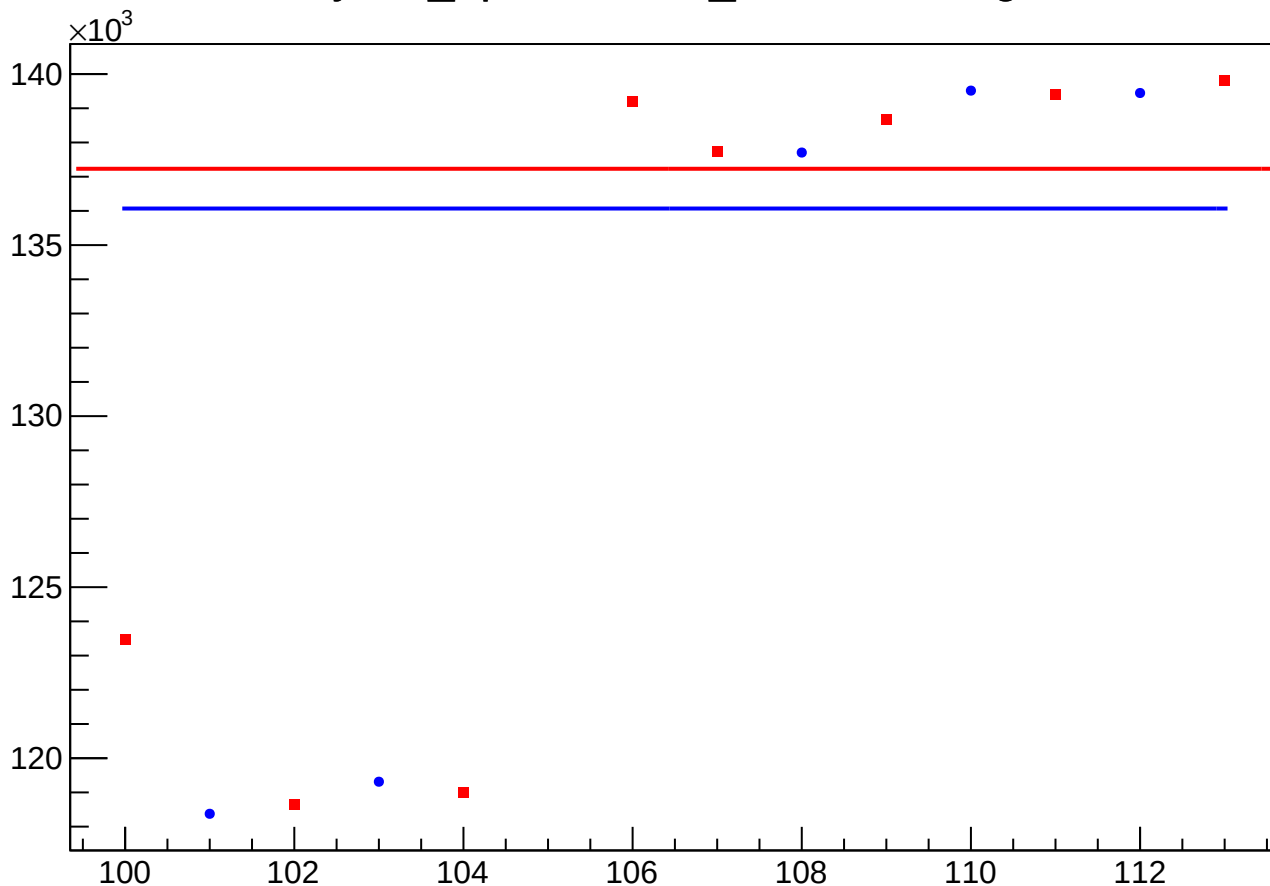
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 379.519 $\pm$ 0.119  $\chi^2$ /NDF: 737542.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l04WS\_mean vs Slug



Right In: 136069.358 $\pm$ 0.115  $\chi^2$ /NDF: 3976343018.5/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

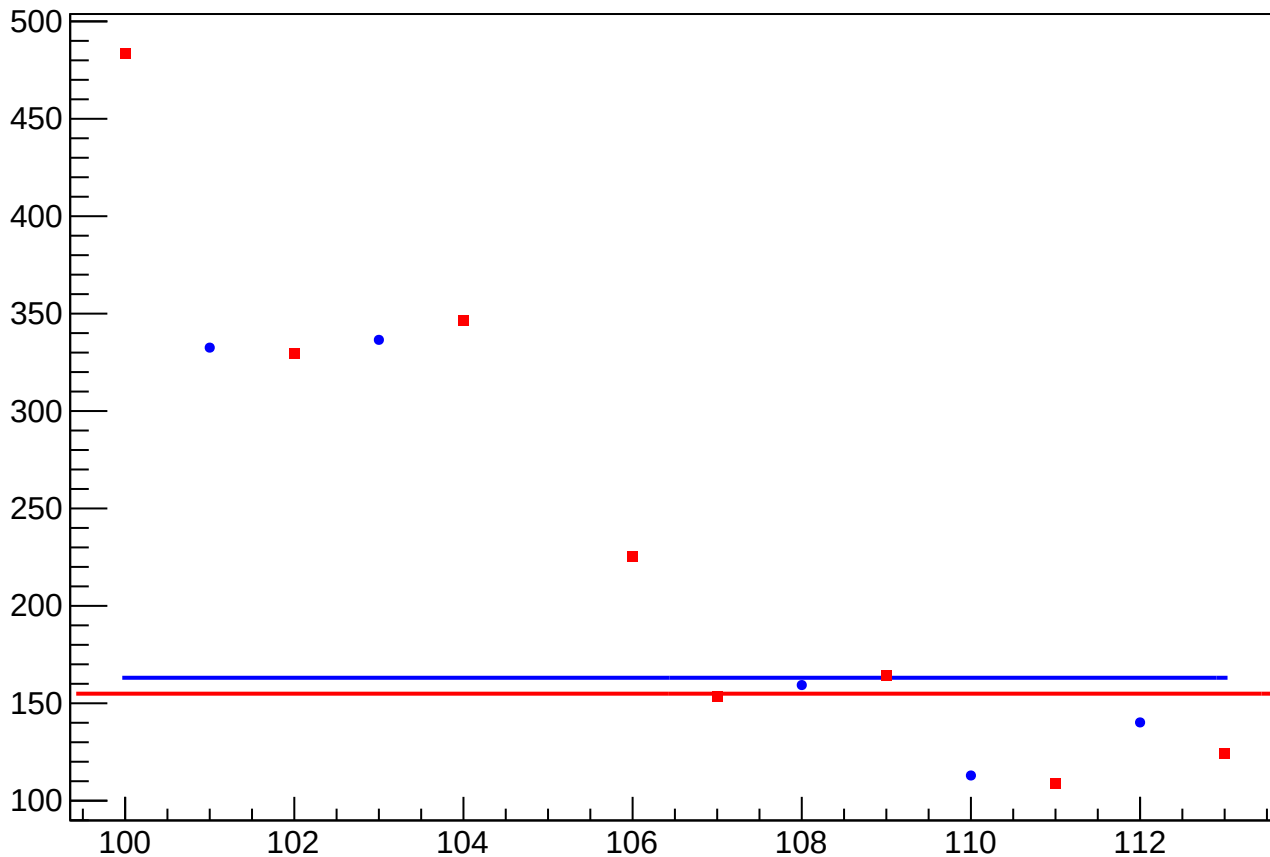
Right Out: 137231.480 $\pm$ 0.096  $\chi^2$ /NDF: 3974804621.8/7

All: 136754.034 $\pm$ 0.073  $\chi^2$ /NDF: 801173357

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l04WS\_rms vs Slug



Right In: 163.098+/-0.081  $\chi^2/\text{NDF}$ : 822137.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

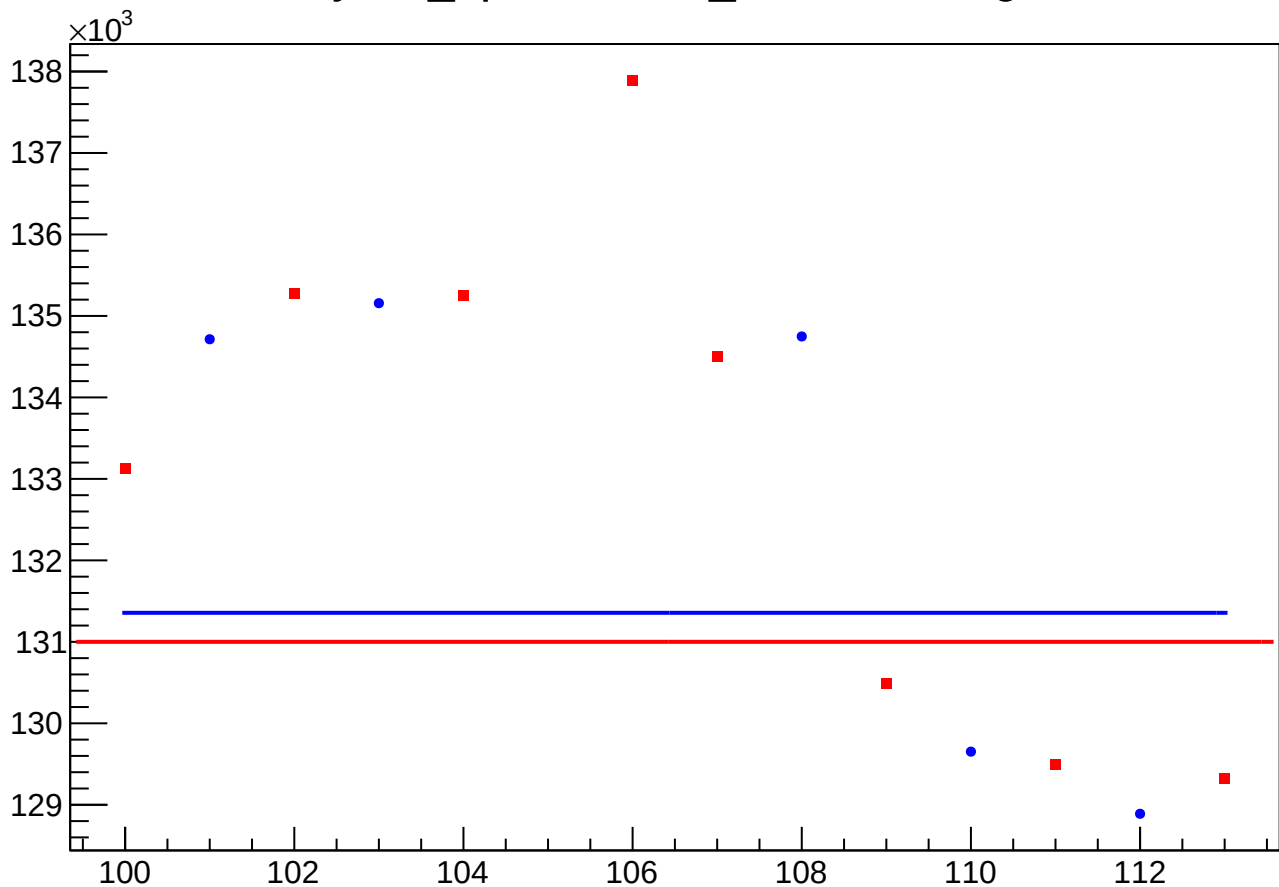
Right Out: 154.930+/-0.068  $\chi^2/\text{NDF}$ : 1012940.5/7

All: 158.285+/-0.052  $\chi^2/\text{NDF}$ : 1841064.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l05WS\_mean vs Slug



Right In: 131356.440 $\pm$ 0.127  $\chi^2$ /NDF: 444256069.4/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

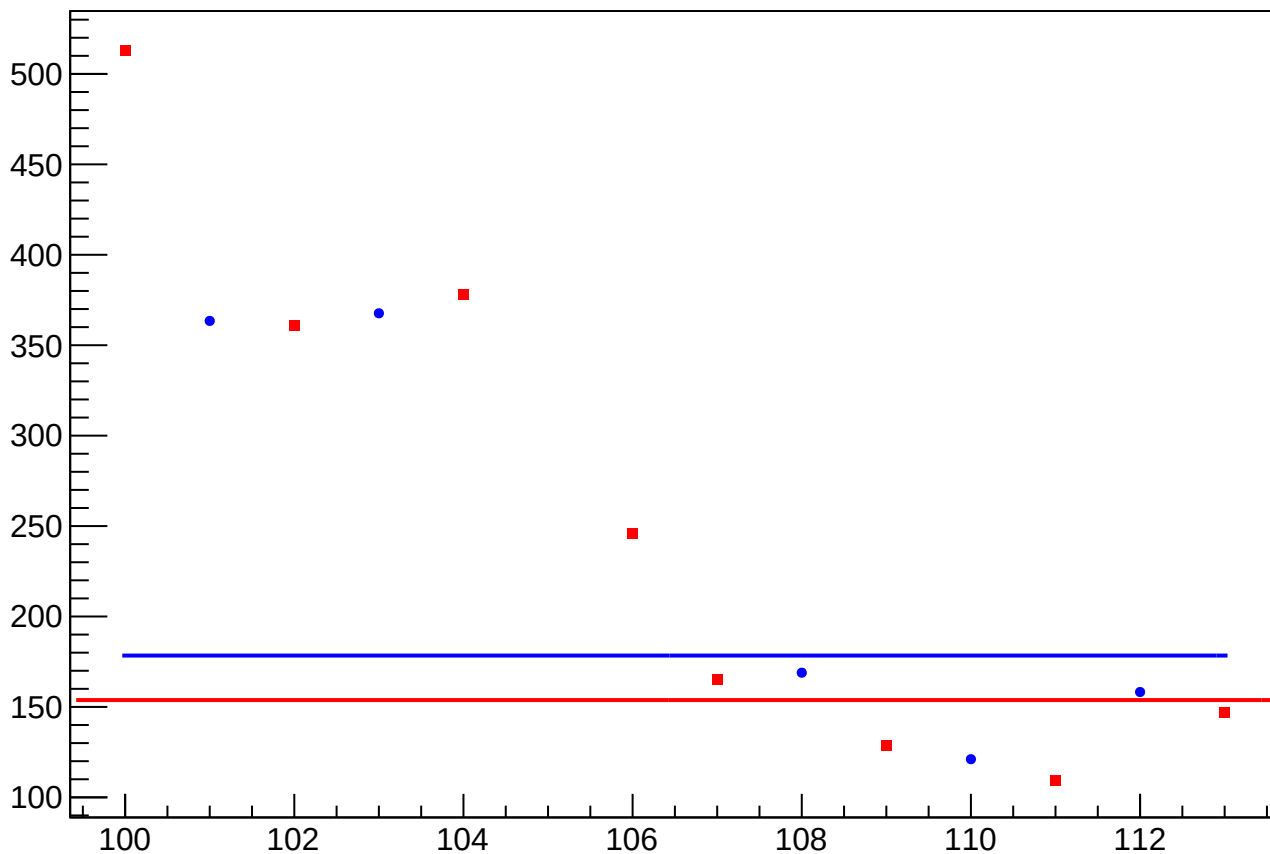
Right Out: 131000.219 $\pm$ 0.098  $\chi^2$ /NDF: 614711695.5/7

All: 131132.904 $\pm$ 0.077  $\chi^2$ /NDF: 106393575

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l05WS\_rms vs Slug



Right In: 178.404 $\pm$ 0.090  $\chi^2$ /NDF: 825033.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 153.792 $\pm$ 0.069  $\chi^2$ /NDF: 1120282.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

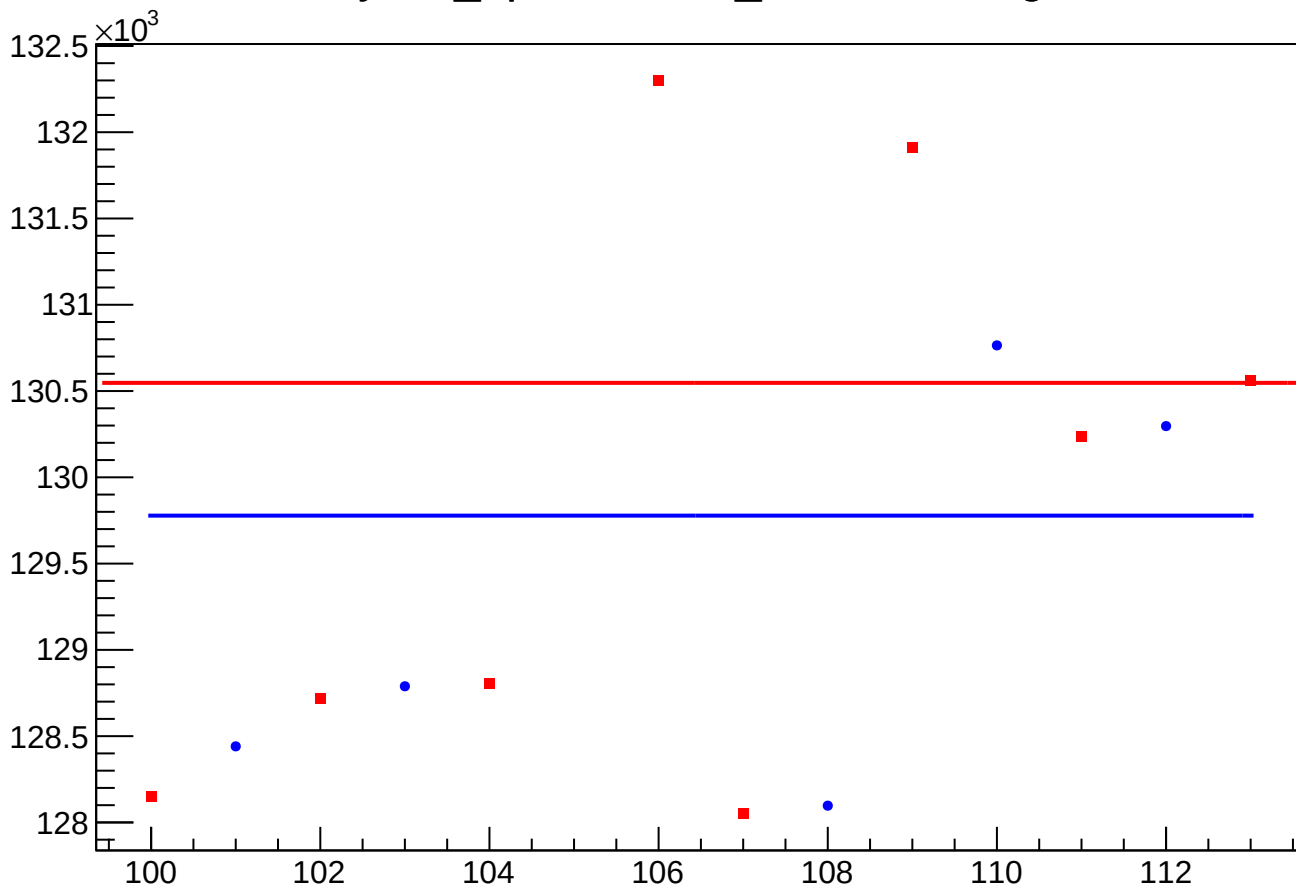
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 162.960 $\pm$ 0.055  $\chi^2$ /NDF: 1992746.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bpm0l06WS\_mean vs Slug



Right In: 129778.037 $\pm$ 0.111  $\chi^2$ /NDF: 99478299.5/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

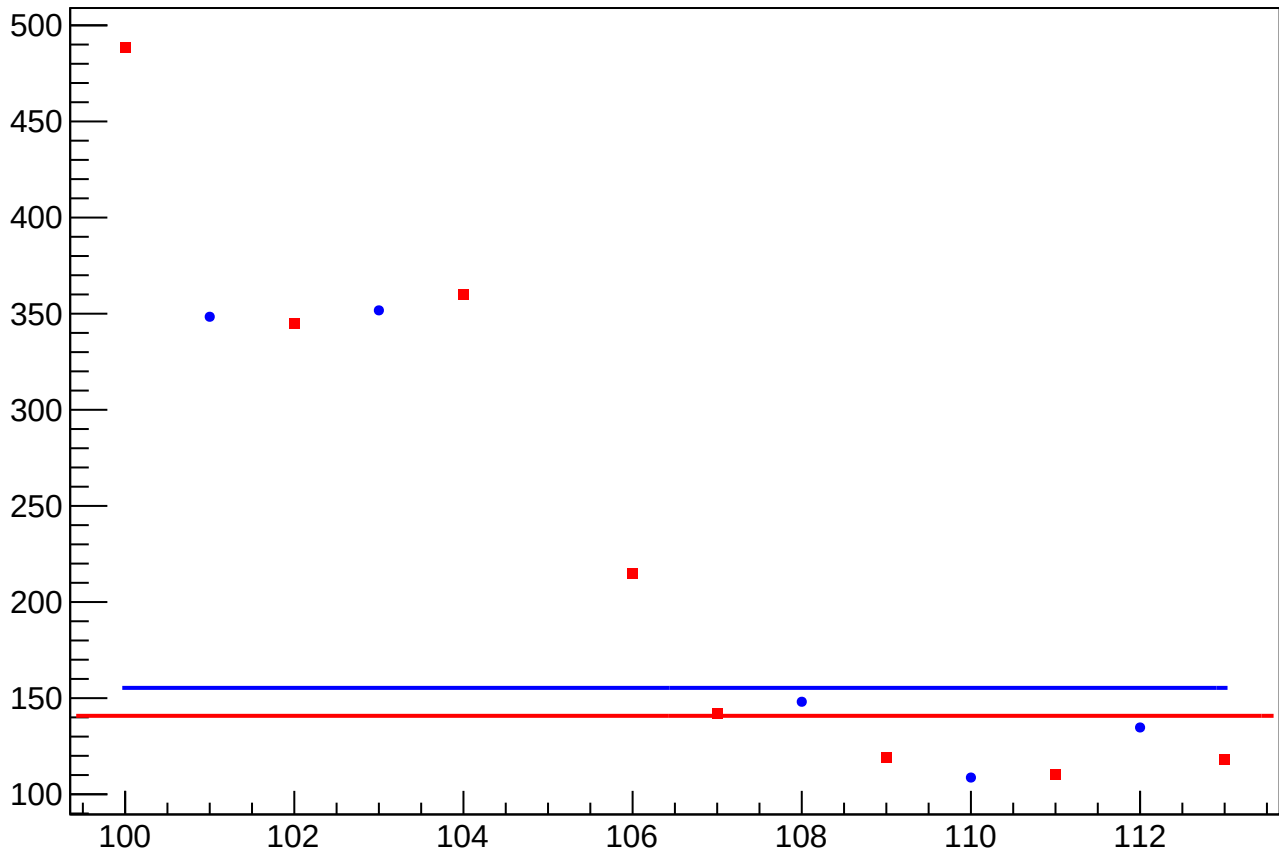
All: 130249.167 $\pm$ 0.069  $\chi^2$ /NDF: 321636740

Right Out: 130547.394 $\pm$ 0.088  $\chi^2$ /NDF: 192518116.8/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l06WS\_rms vs Slug



Right In: 155.348 $\pm$ 0.078  $\chi^2$ /NDF: 930325.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 140.806 $\pm$ 0.062  $\chi^2$ /NDF: 1107729.1/7

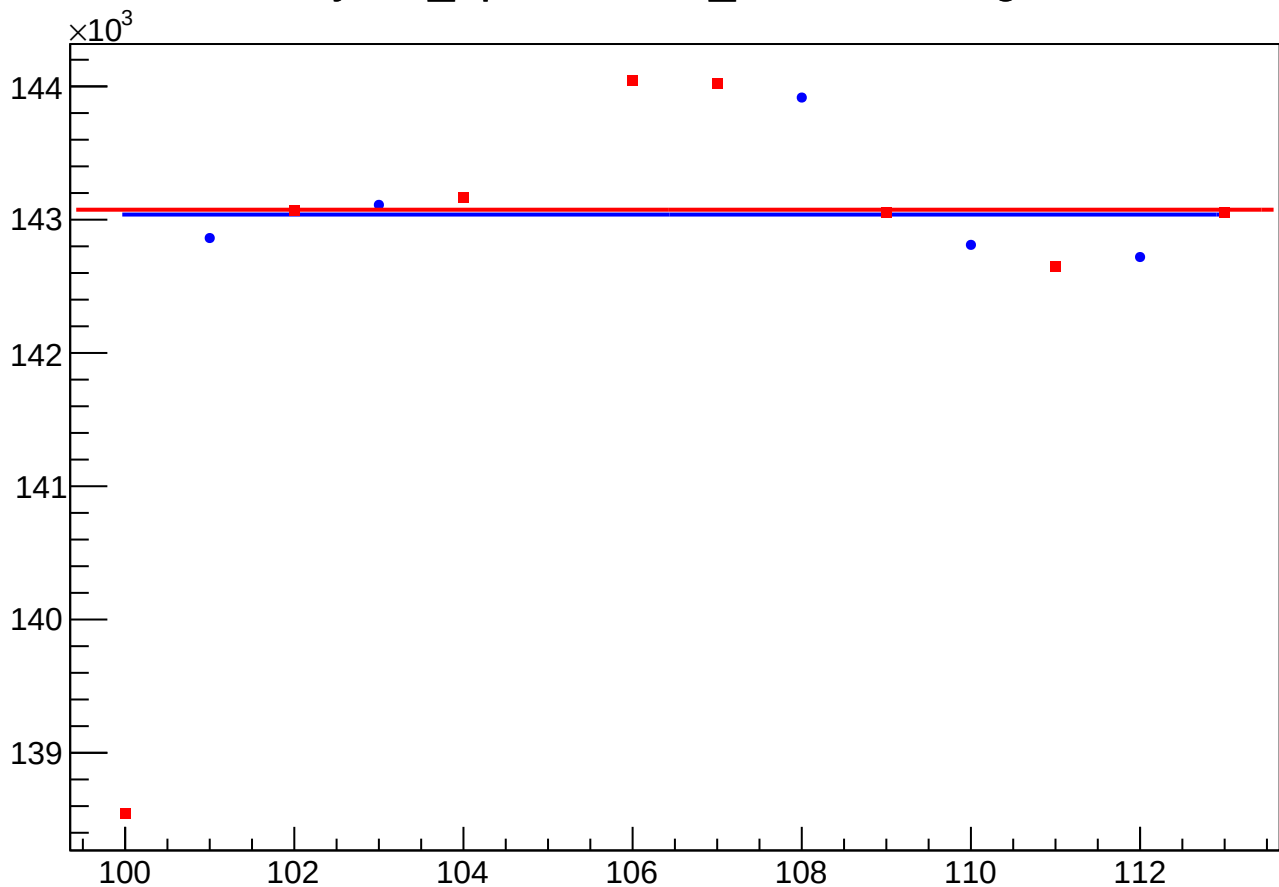
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 146.443 $\pm$ 0.049  $\chi^2$ /NDF: 2059231.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l07WS\_mean vs Slug



Right In: 143038.481 $\pm$ 0.120  $\chi^2$ /NDF: 15049415.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

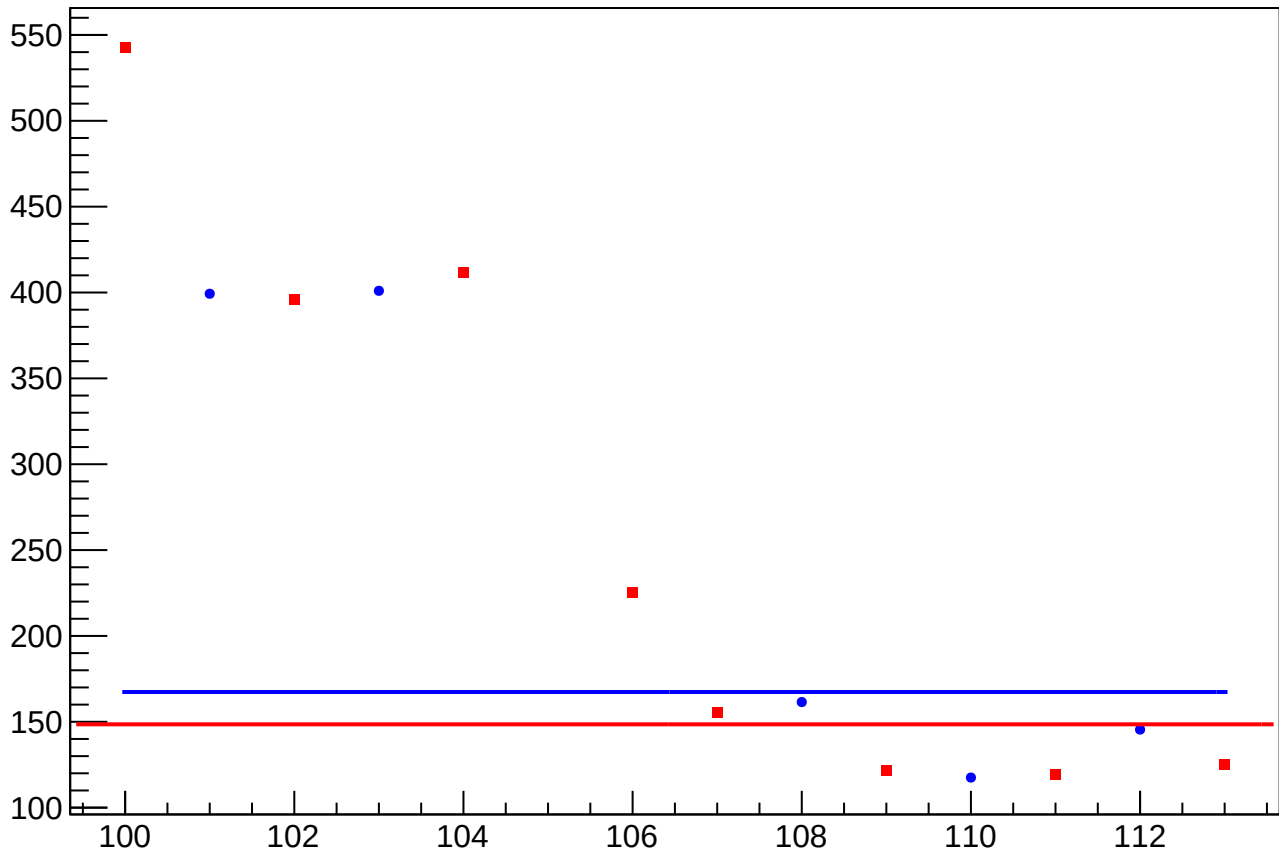
Right Out: 143074.825 $\pm$ 0.093  $\chi^2$ /NDF: 24743644.7/7

All: 143061.098 $\pm$ 0.074  $\chi^2$ /NDF: 39850219.

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l07WS\_rms vs Slug



Right In: 167.354+/-0.085  $\chi^2/\text{NDF}$ : 1002213.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 148.528+/-0.066  $\chi^2/\text{NDF}$ : 1202959.8/7

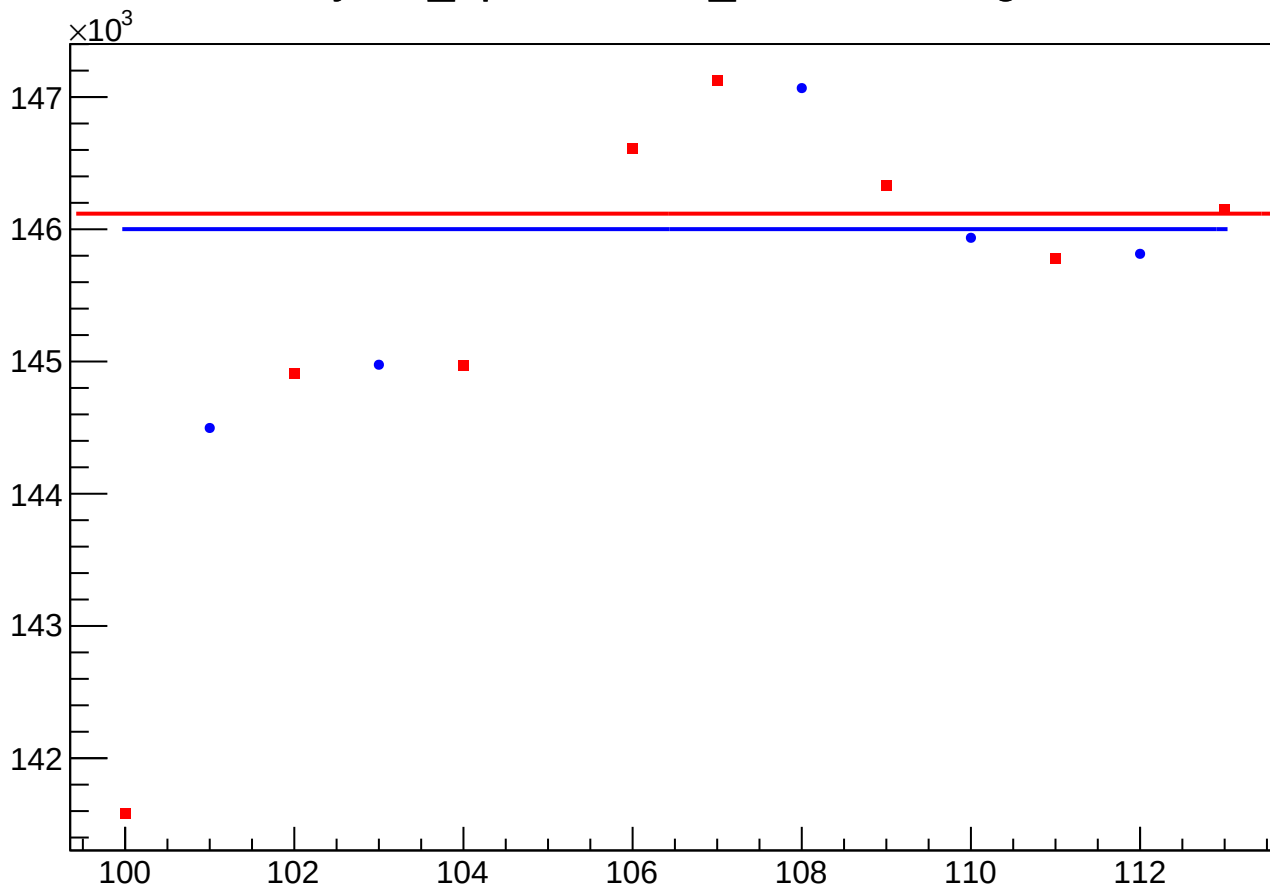
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 155.639+/-0.052  $\chi^2/\text{NDF}$ : 2235844.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08WS\_mean vs Slug



Right In: 146001.080 $\pm$ 0.124  $\chi^2$ /NDF: 30926965.1/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

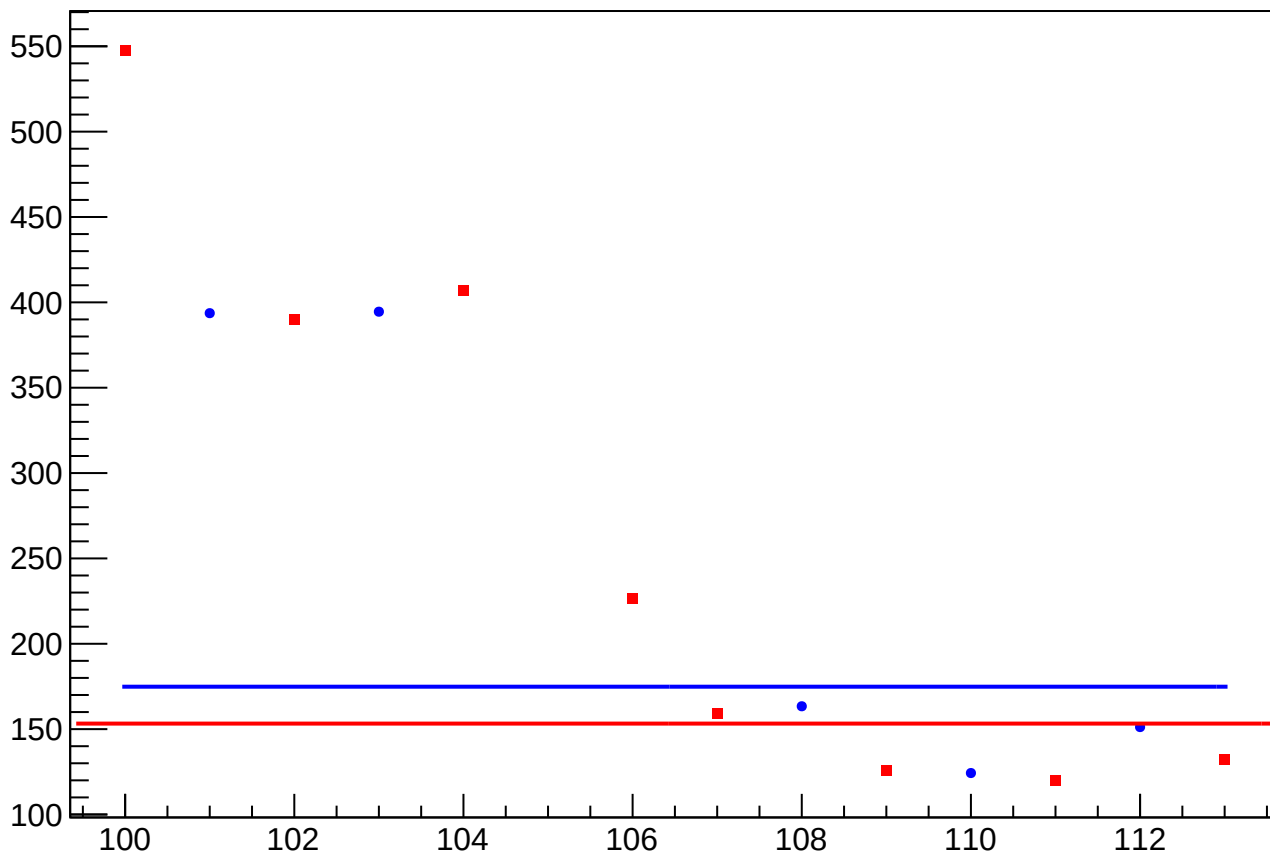
Right Out: 146118.163 $\pm$ 0.096  $\chi^2$ /NDF: 31134565.4/7

All: 146074.466 $\pm$ 0.076  $\chi^2$ /NDF: 62618662.0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l08WS\_rms vs Slug



Right In: 174.859+/-0.088  $\chi^2/\text{NDF}$ : 922279.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 153.246+/-0.068  $\chi^2/\text{NDF}$ : 1152678.2/7

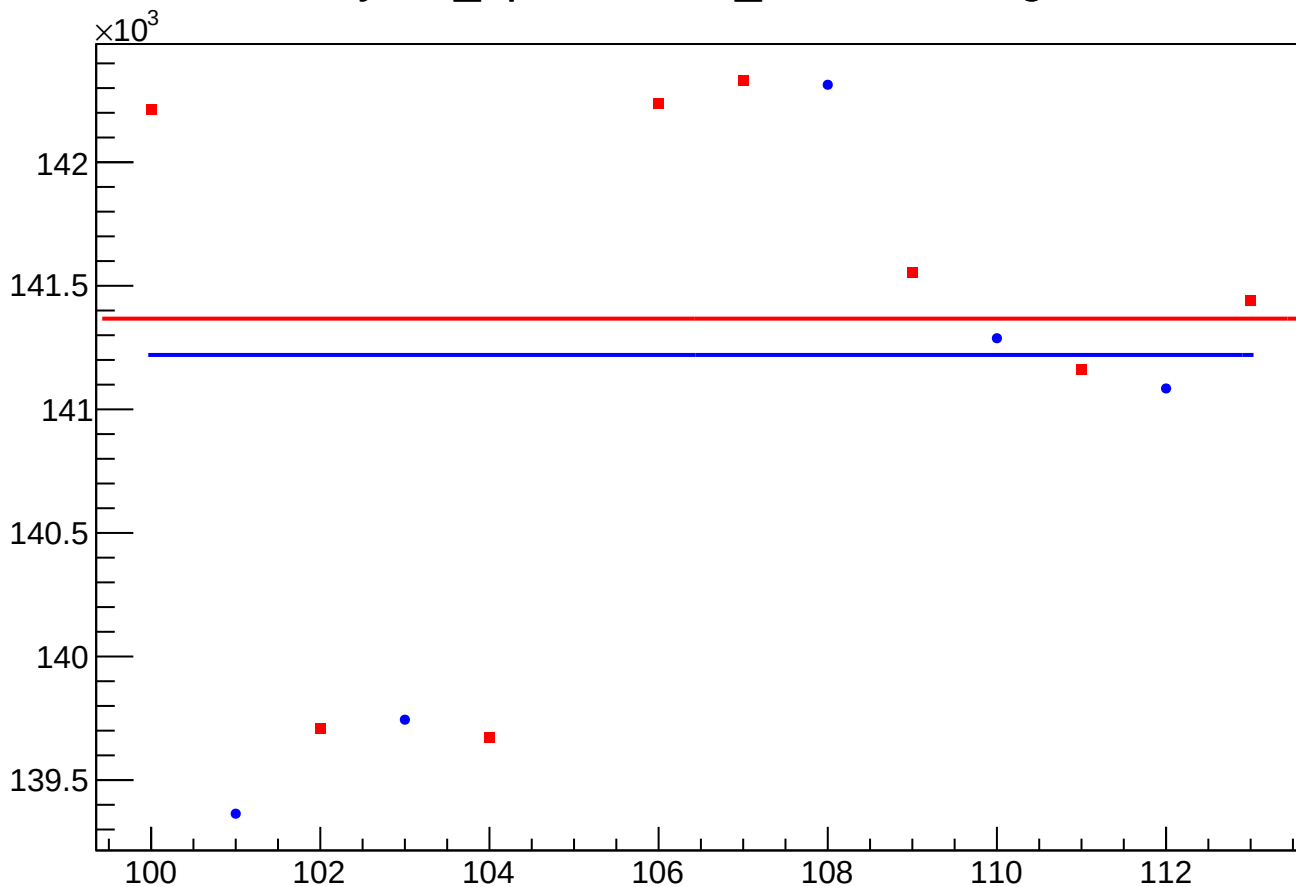
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 161.312+/-0.054  $\chi^2/\text{NDF}$ : 2112924.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l09WS\_mean vs Slug



Right In: 141220.211 $\pm$ 0.125  $\chi^2$ /NDF: 39619823.5/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

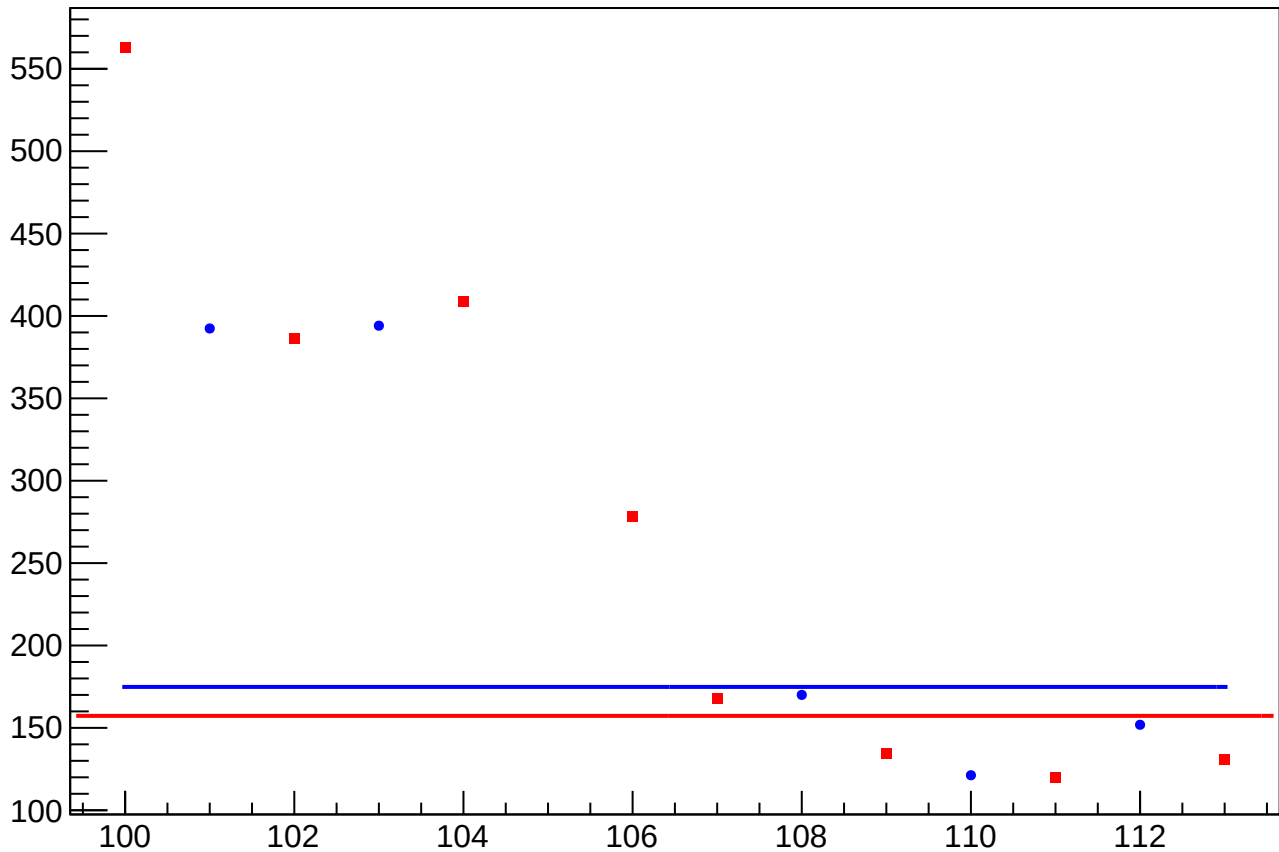
Right Out: 141367.141 $\pm$ 0.099  $\chi^2$ /NDF: 34015234.9/7

All: 141310.392 $\pm$ 0.077  $\chi^2$ /NDF: 74489799.

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l09WS\_rms vs Slug



Right In: 174.855+/-0.088  $\chi^2/\text{NDF}$ : 934527.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 157.298+/-0.070  $\chi^2/\text{NDF}$ : 1179117.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

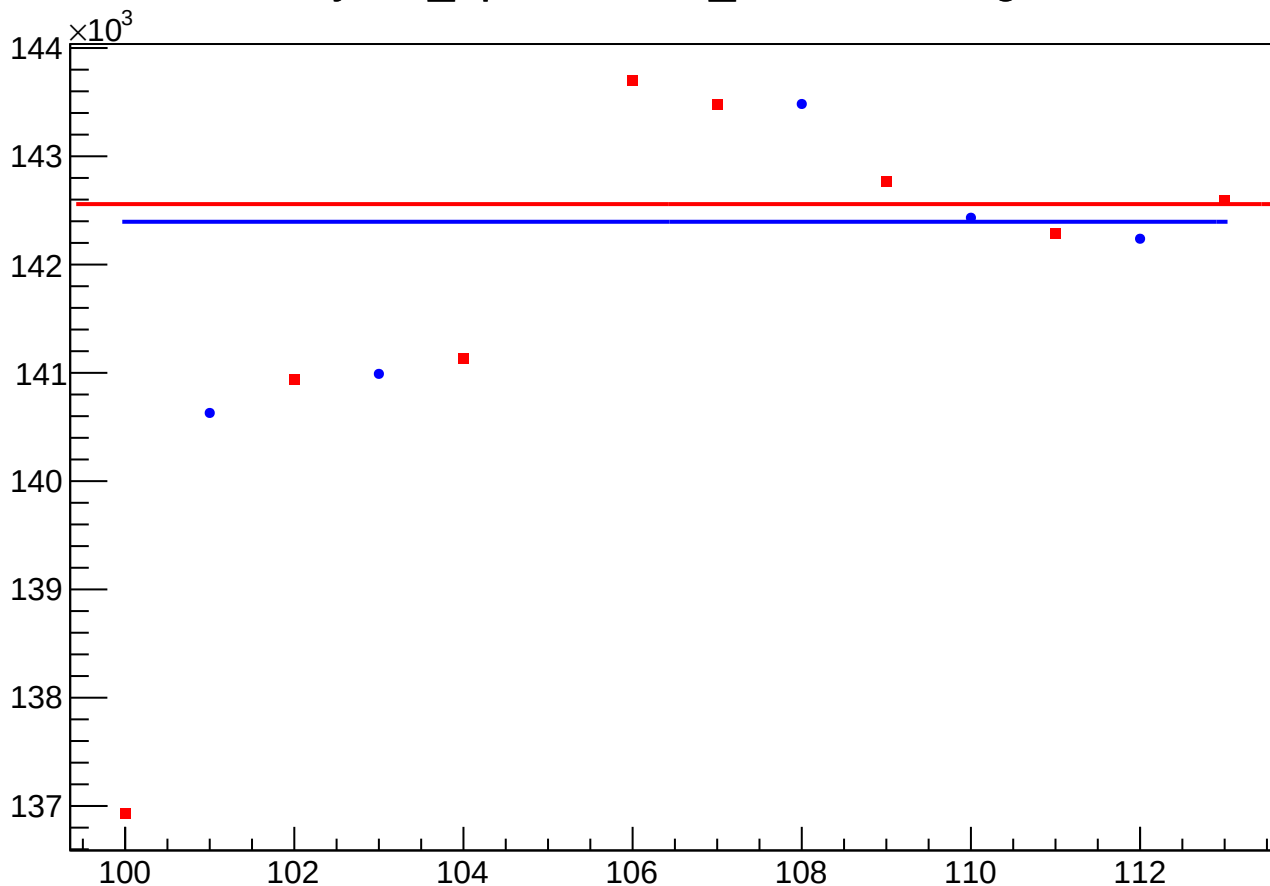
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 164.080+/-0.055  $\chi^2/\text{NDF}$ : 2138053.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l10WS\_mean vs Slug



Right In: 142395.295 $\pm$ 0.124  $\chi^2$ /NDF: 37610188.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

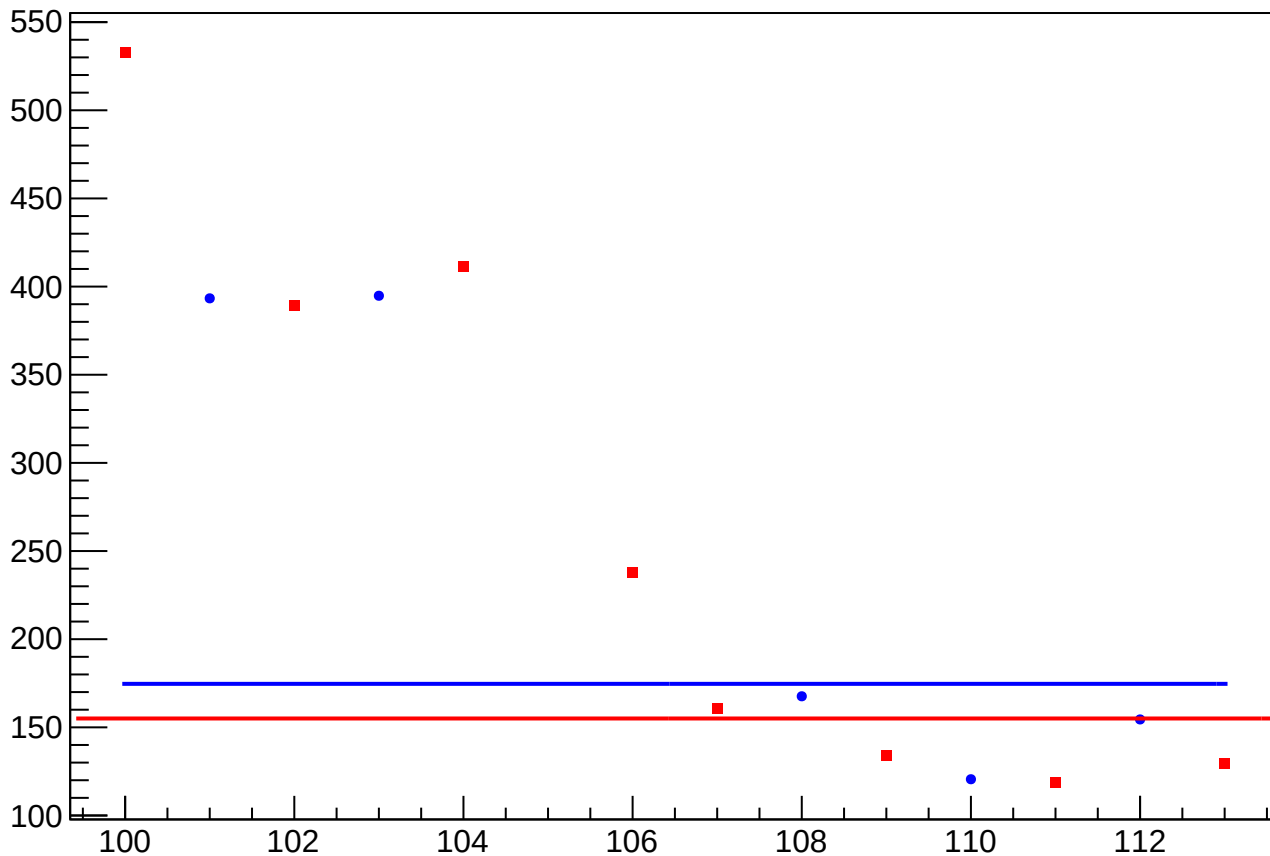
Right Out: 142558.469 $\pm$ 0.097  $\chi^2$ /NDF: 43204406.9/7

All: 142496.550 $\pm$ 0.077  $\chi^2$ /NDF: 81882551.0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l10WS\_rms vs Slug



Right In: 174.670 $\pm$ 0.088  $\chi^2$ /NDF: 939200.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 155.021 $\pm$ 0.069  $\chi^2$ /NDF: 1147572.3/7

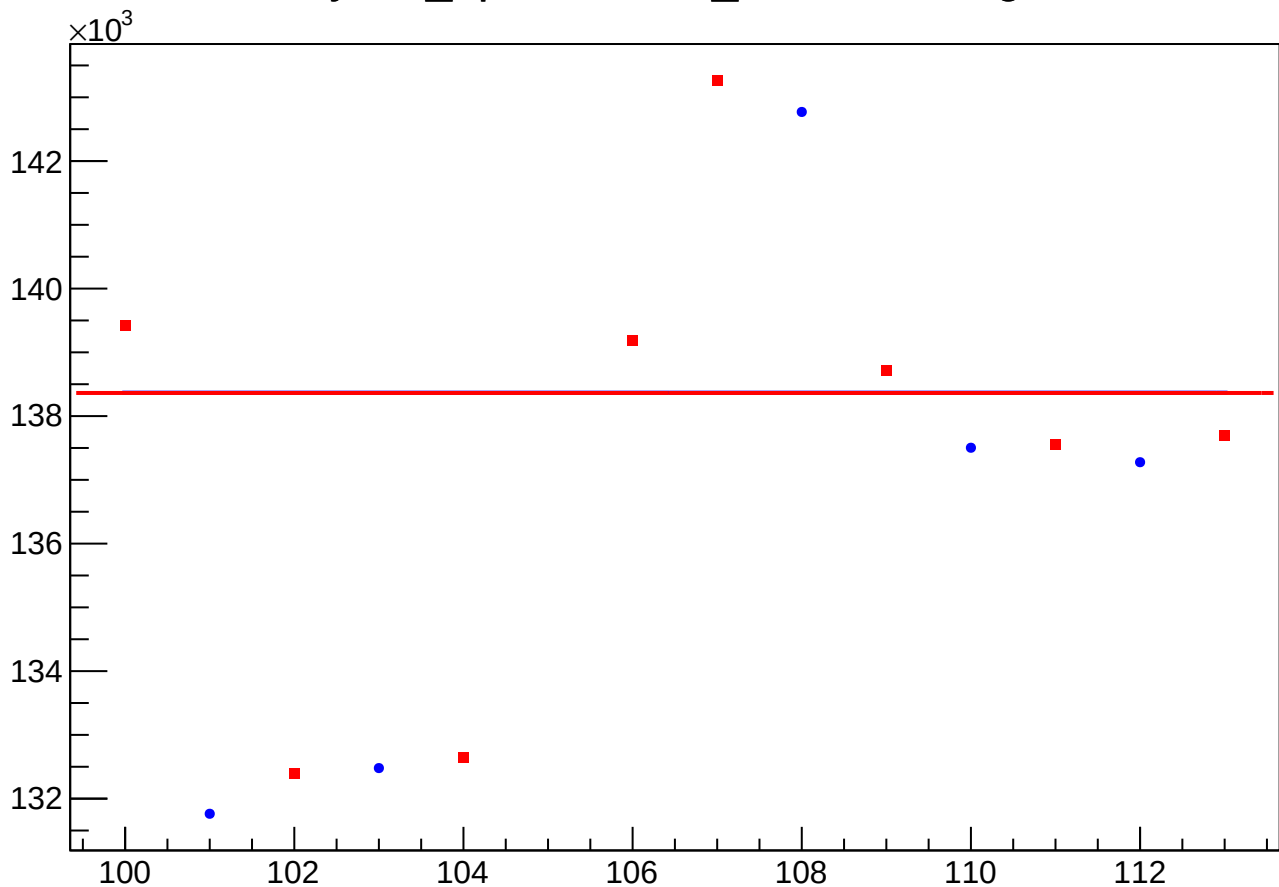
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 162.477 $\pm$ 0.054  $\chi^2$ /NDF: 2117745.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r03WS\_mean vs Slug



Right In: 138367.546 $\pm$ 0.206  $\chi^2$ /NDF: 423110477.6/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

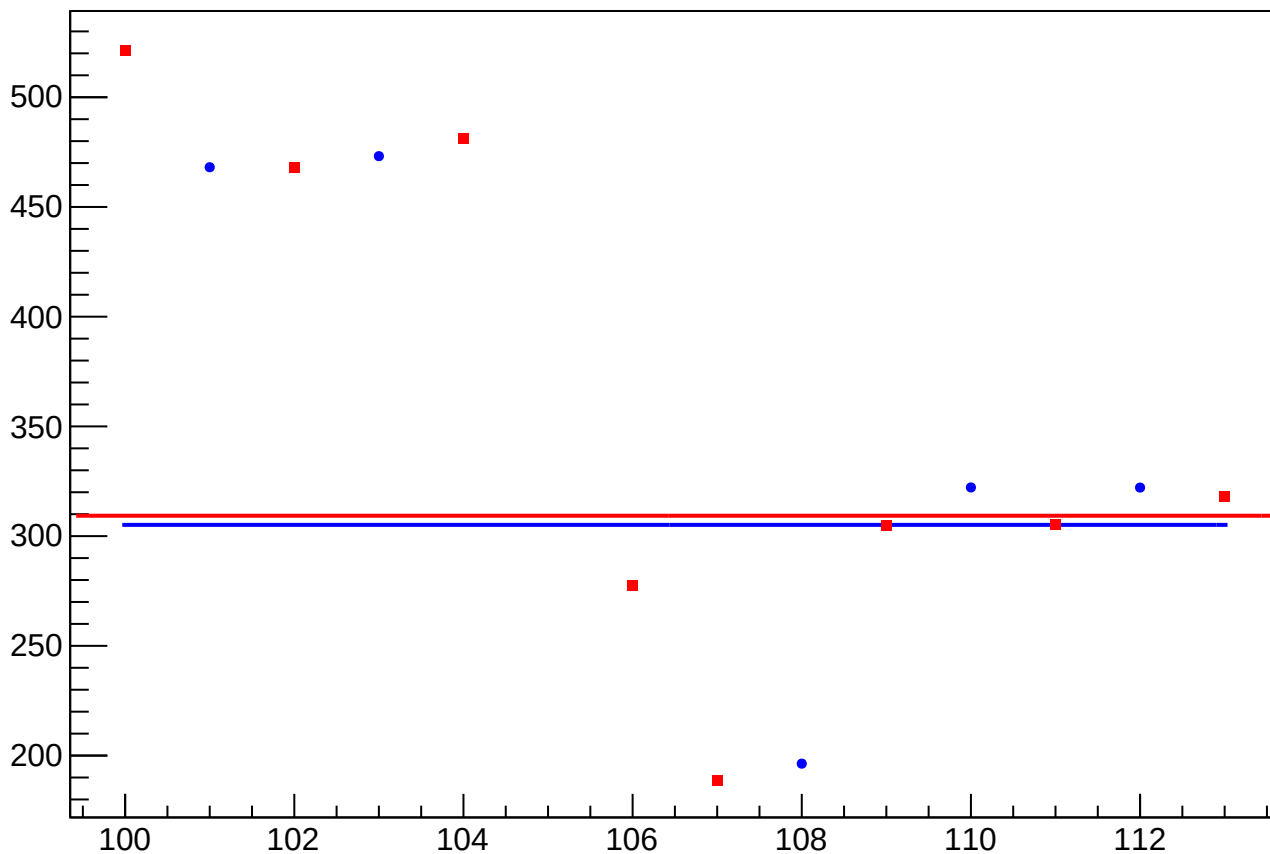
Right Out: 138362.791 $\pm$ 0.182  $\chi^2$ /NDF: 338625920.9/7

All: 138364.876 $\pm$ 0.136  $\chi^2$ /NDF: 761736698.0/8

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r03WS\_rms vs Slug



Right In: 305.129+/-0.146  $\chi^2/\text{NDF}$ : 549337.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 309.289+/-0.129  $\chi^2/\text{NDF}$ : 495065.5/7

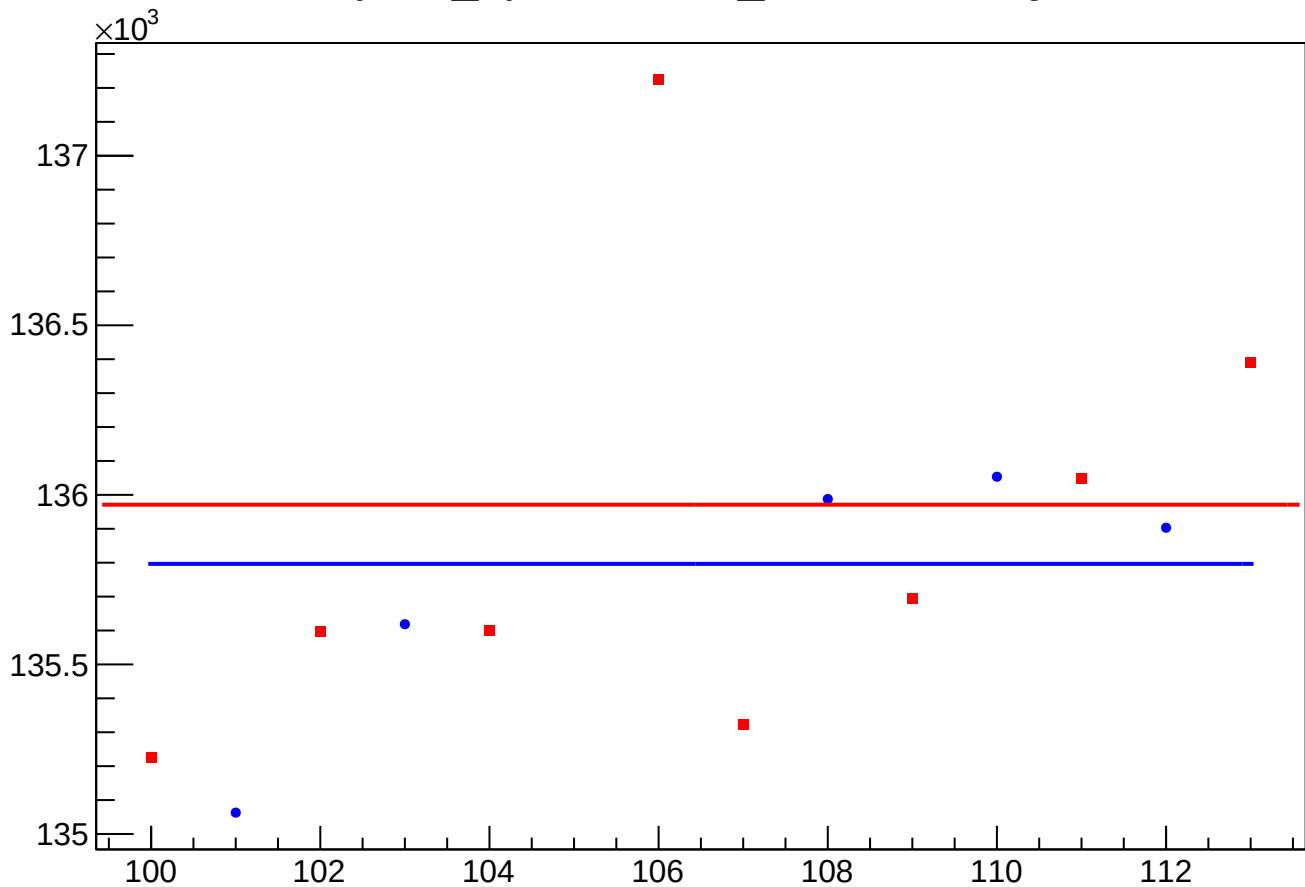
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 307.464+/-0.096  $\chi^2/\text{NDF}$ : 1044861.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05WS\_mean vs Slug



Right In: 135796.514 $\pm$ 0.174  $\chi^2$ /NDF: 3609093.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

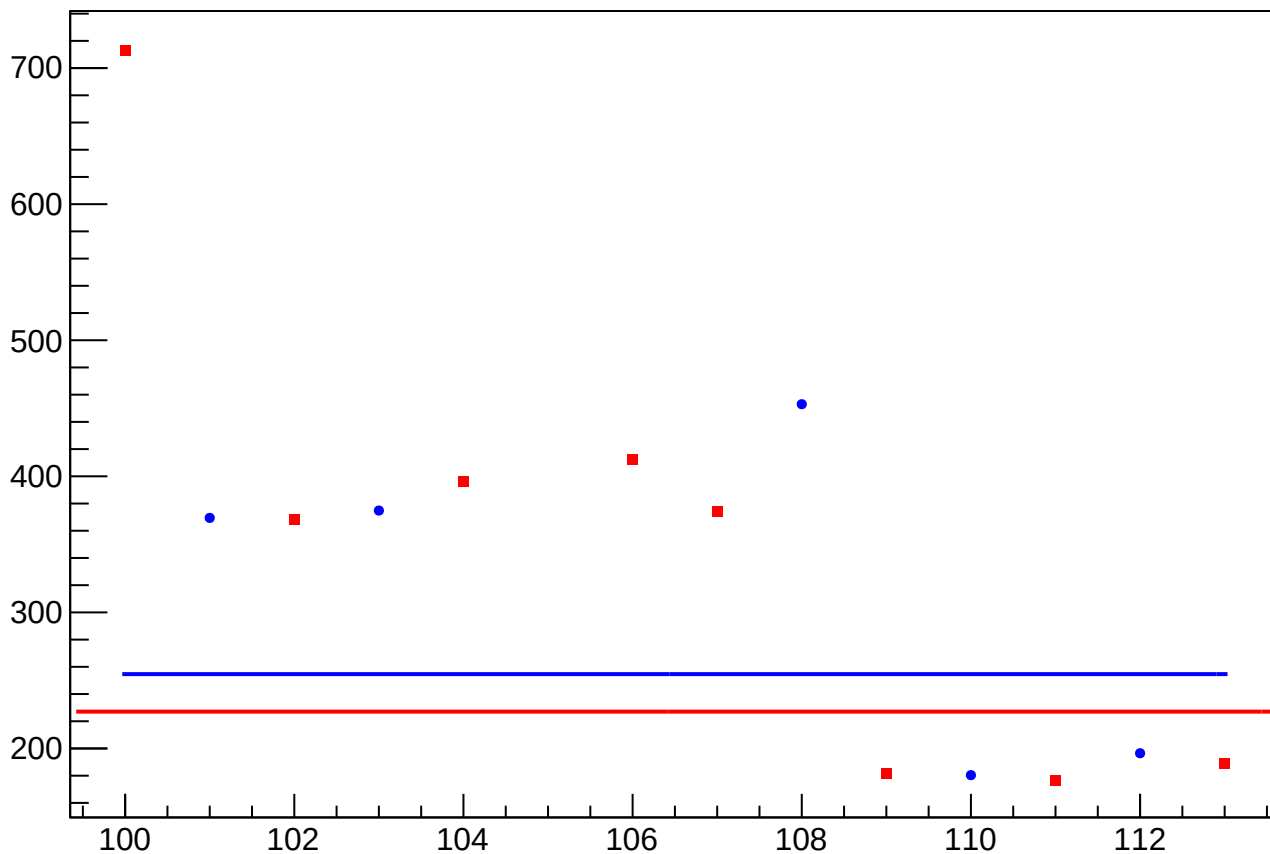
Right Out: 135971.030 $\pm$ 0.139  $\chi^2$ /NDF: 7784999.5/7

All: 135903.300 $\pm$ 0.108  $\chi^2$ /NDF: 12008804.

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r05WS\_rms vs Slug



Right In: 254.639+/-0.123  $\chi^2/\text{NDF}$ : 594511.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 227.082+/-0.098  $\chi^2/\text{NDF}$ : 785611.6/7

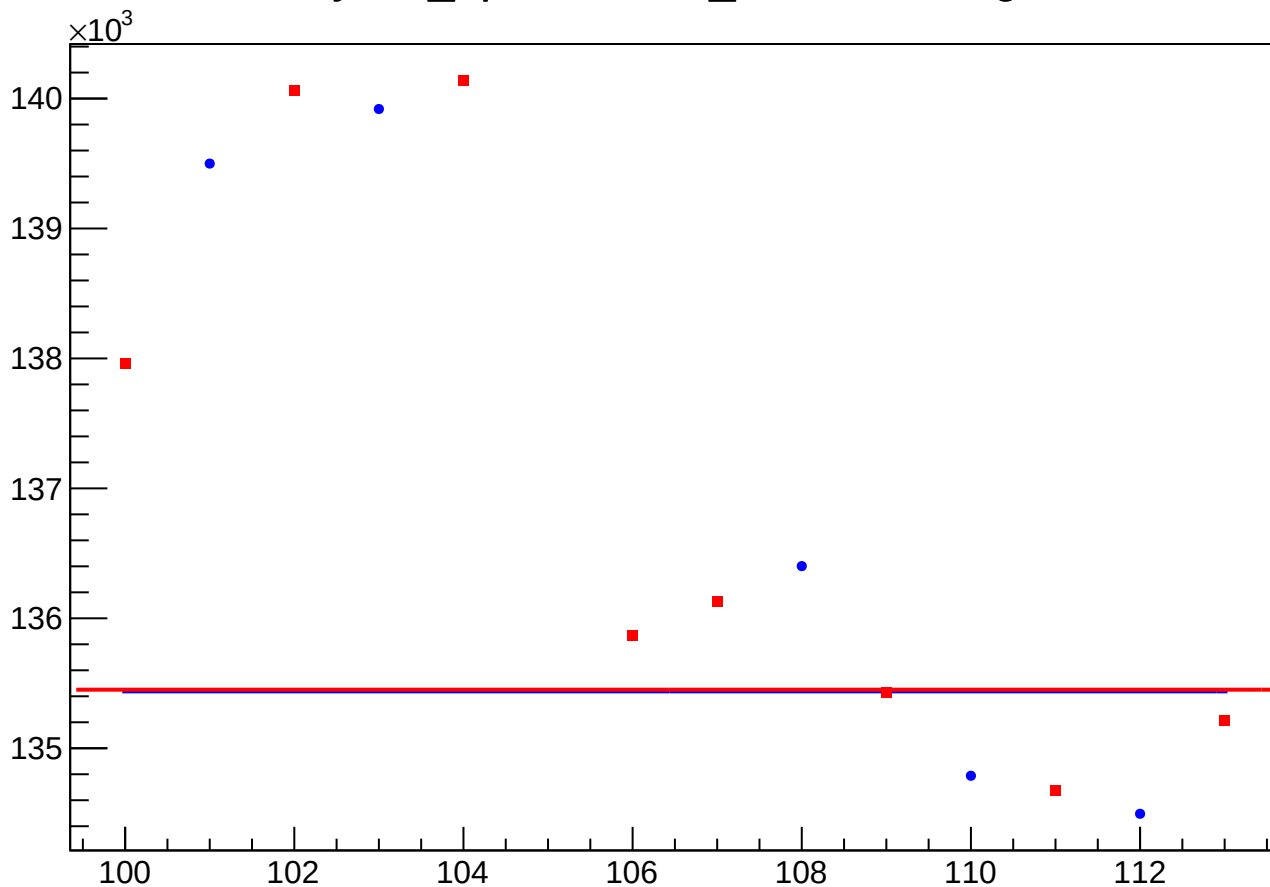
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 237.777+/-0.077  $\chi^2/\text{NDF}$ : 1410777.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02WS\_mean vs Slug



Right In: 135437.824 $\pm$ 0.093  $\chi^2$ /NDF: 237514938.2/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

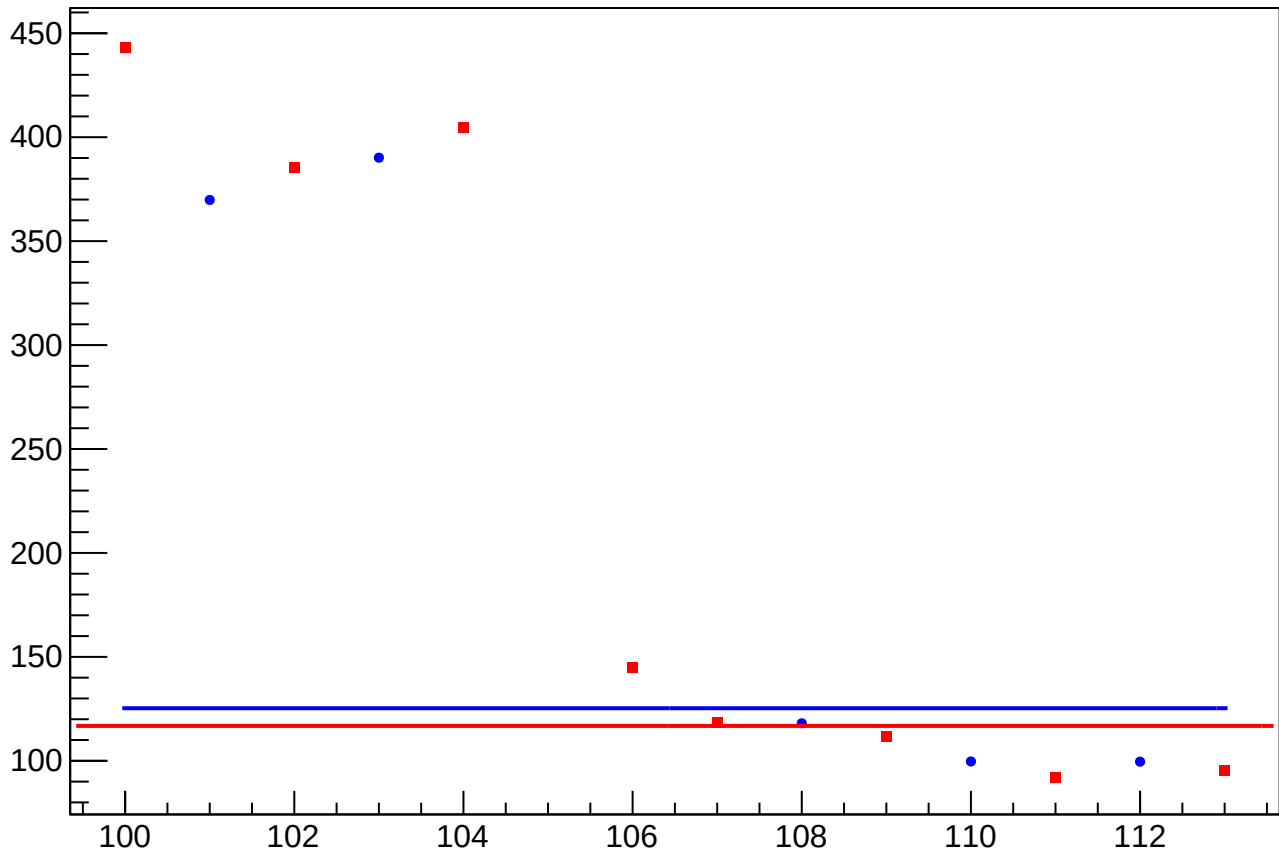
Right Out: 135450.679 $\pm$ 0.076  $\chi^2$ /NDF: 207125586.4/7

All: 135445.548 $\pm$ 0.059  $\chi^2$ /NDF: 444651950

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i02WS\_rms vs Slug



Right In: 125.305+/-0.066  $\chi^2/\text{NDF}$ : 1235600.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 116.787+/-0.054  $\chi^2/\text{NDF}$ : 1356532.1/7

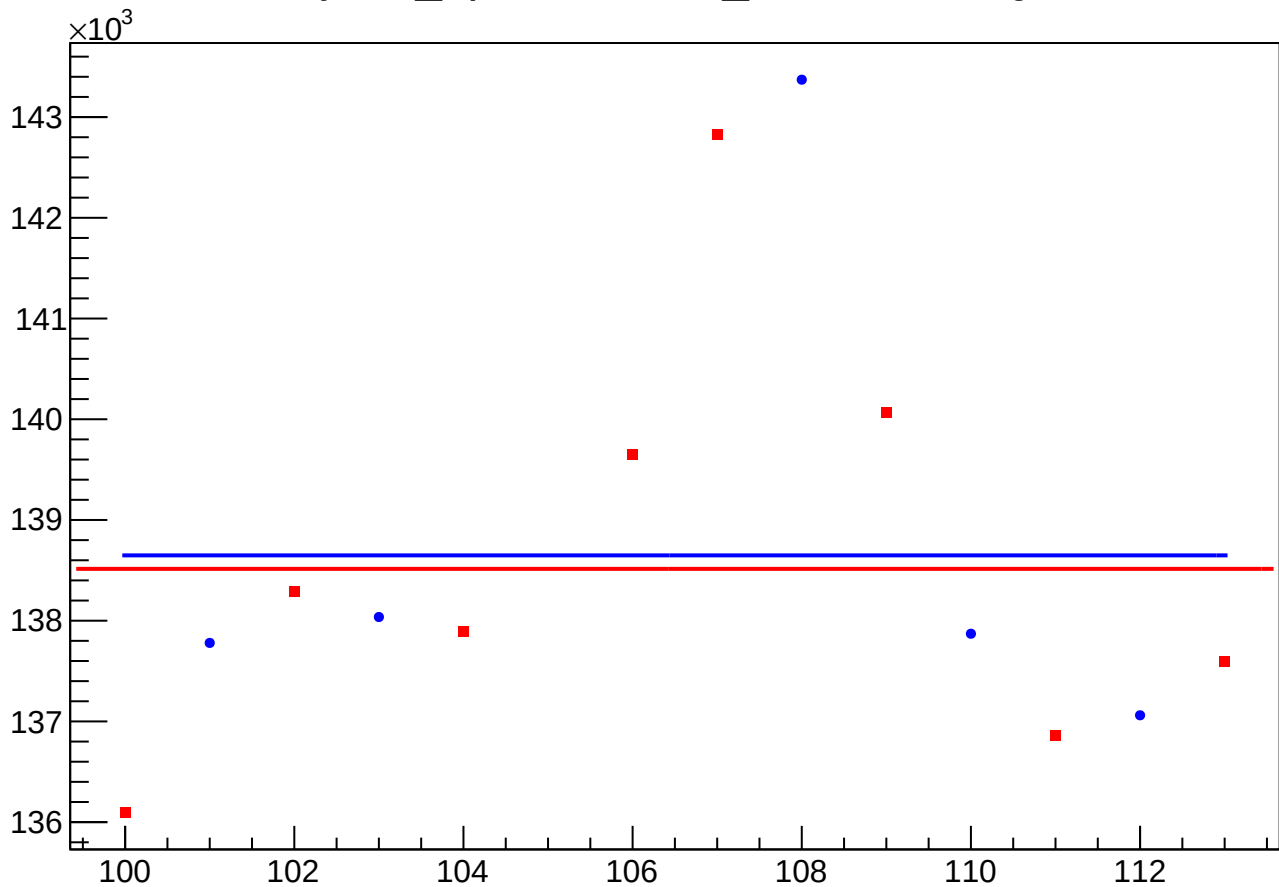
All: 120.187+/-0.042  $\chi^2/\text{NDF}$ : 2602164.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i02aWS\_mean vs Slug



Right In: 138648.590 $\pm$ 0.117  $\chi^2$ /NDF: 391977411.2/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

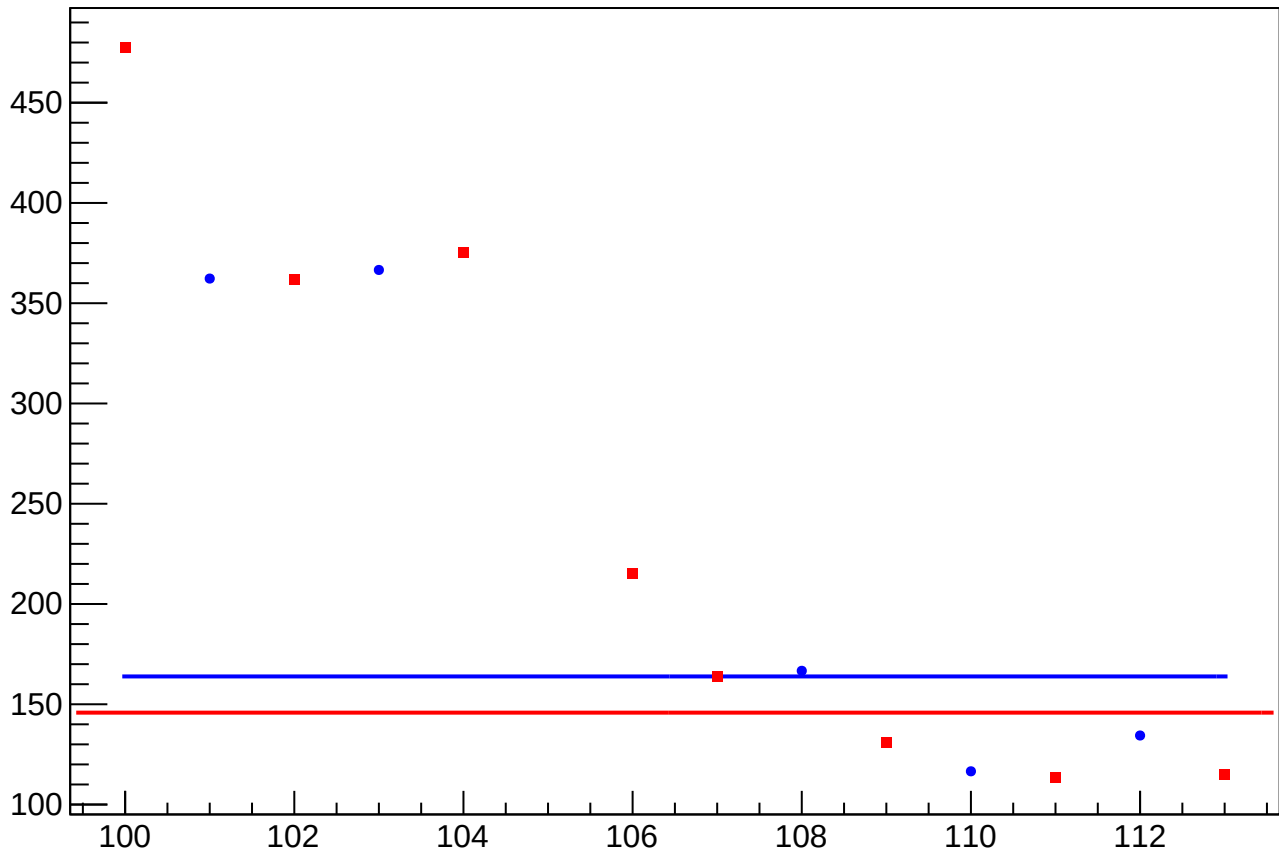
Right Out: 138514.766 $\pm$ 0.092  $\chi^2$ /NDF: 363210329.5/7

All: 138566.132 $\pm$ 0.072  $\chi^2$ /NDF: 75599884

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i02aWS\_rms vs Slug



Right In: 163.879+/-0.082  $\chi^2/\text{NDF}$ : 920652.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 145.824+/-0.065  $\chi^2/\text{NDF}$ : 1119275.2/7

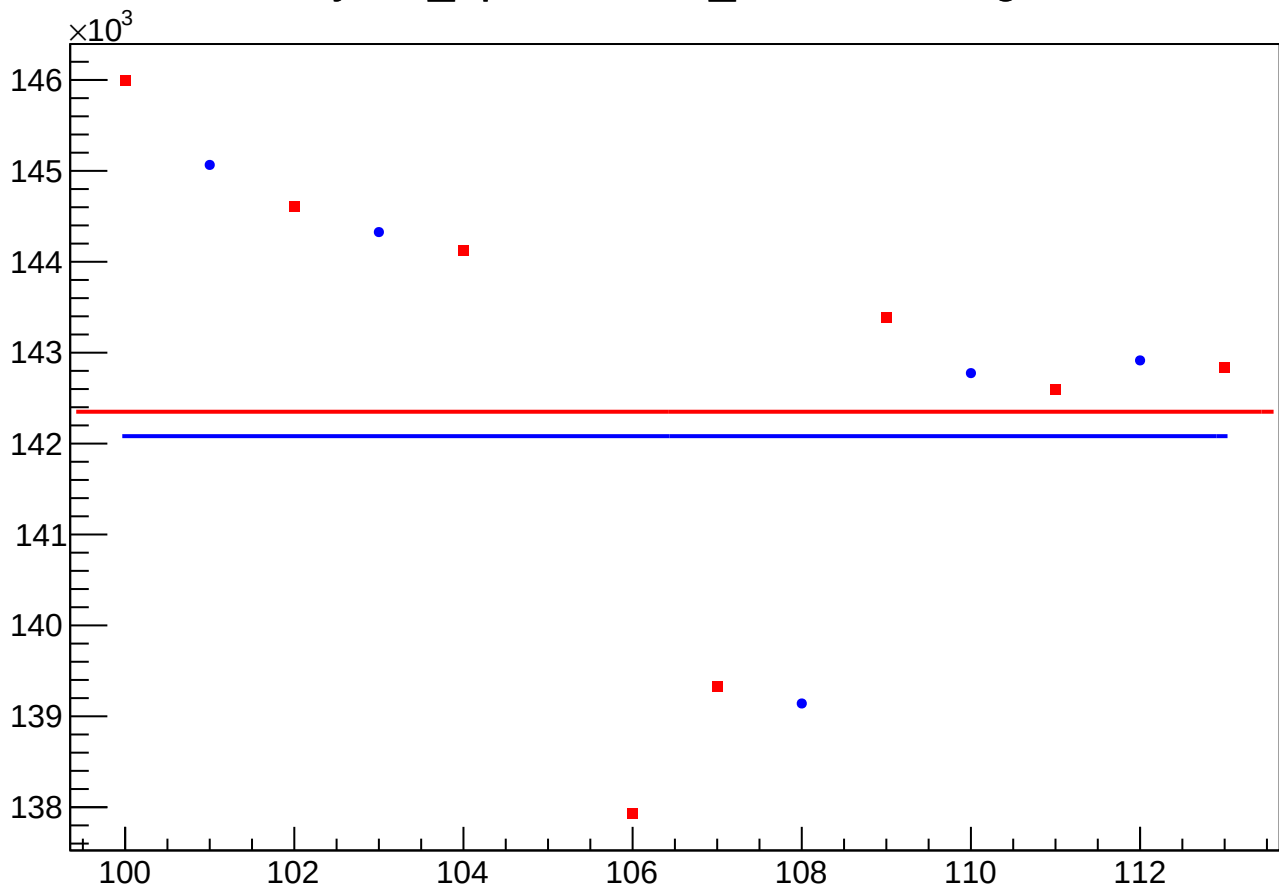
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 152.755+/-0.051  $\chi^2/\text{NDF}$ : 2069455.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05WS\_mean vs Slug



Right In: 142081.761 $\pm$ 0.125  $\chi^2$ /NDF: 244459954.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

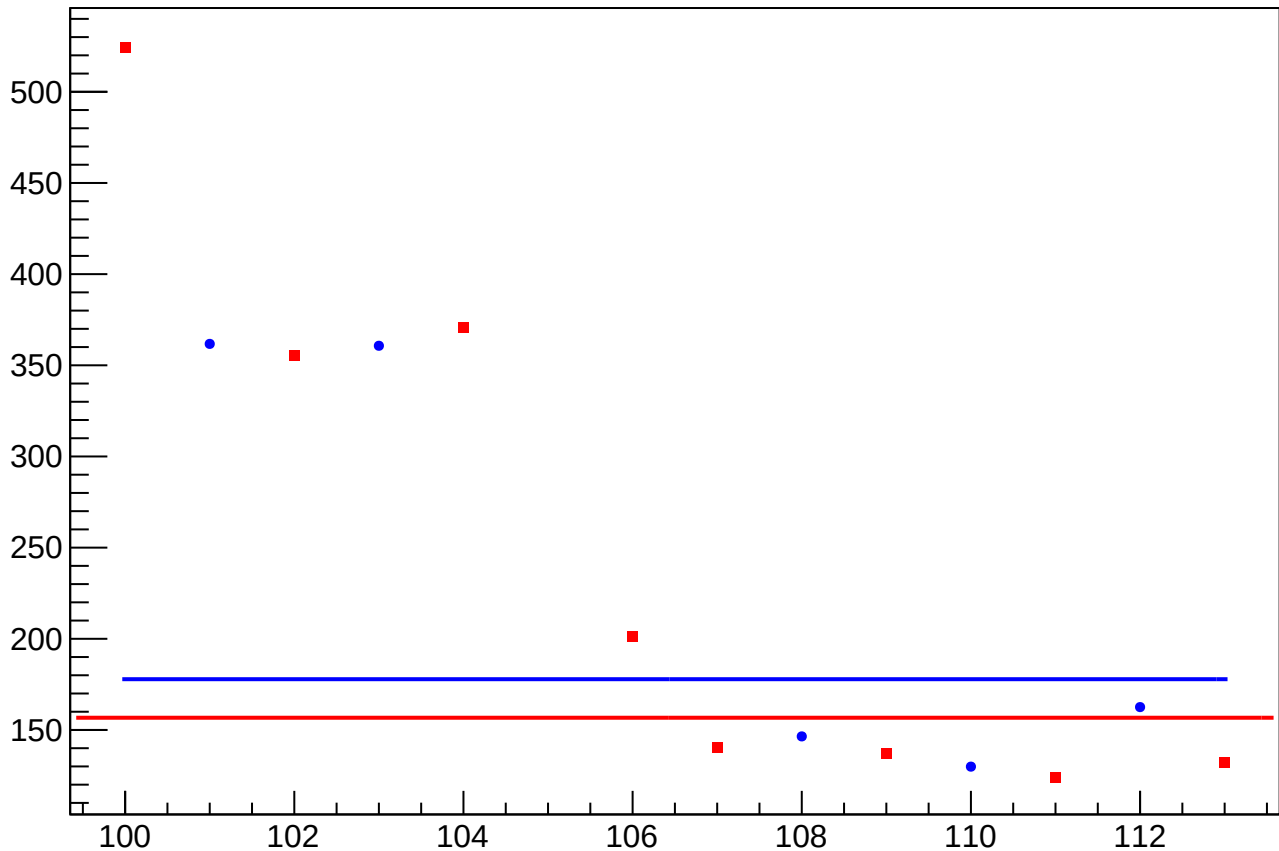
Right Out: 142350.446 $\pm$ 0.098  $\chi^2$ /NDF: 309505782.3/7

All: 142248.833 $\pm$ 0.077  $\chi^2$ /NDF: 55683653

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i05WS\_rms vs Slug



Right In: 177.845+/-0.088  $\chi^2/\text{NDF}$ : 784535.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 156.709+/-0.069  $\chi^2/\text{NDF}$ : 960270.1/7

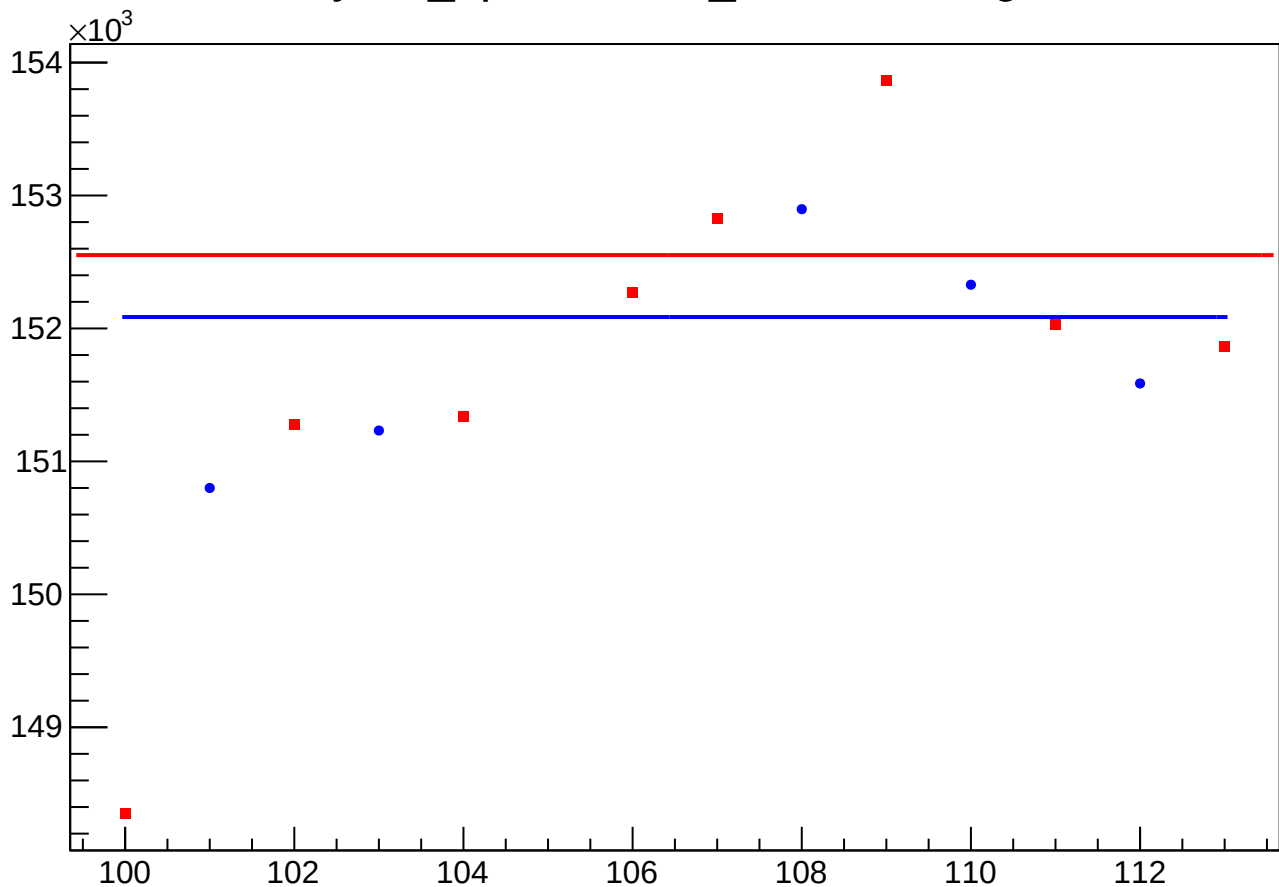
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 164.702+/-0.054  $\chi^2/\text{NDF}$ : 1780336.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i07WS\_mean vs Slug



Right In: 152085.826 $\pm$ 0.139  $\chi^2$ /NDF: 23859227.2/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

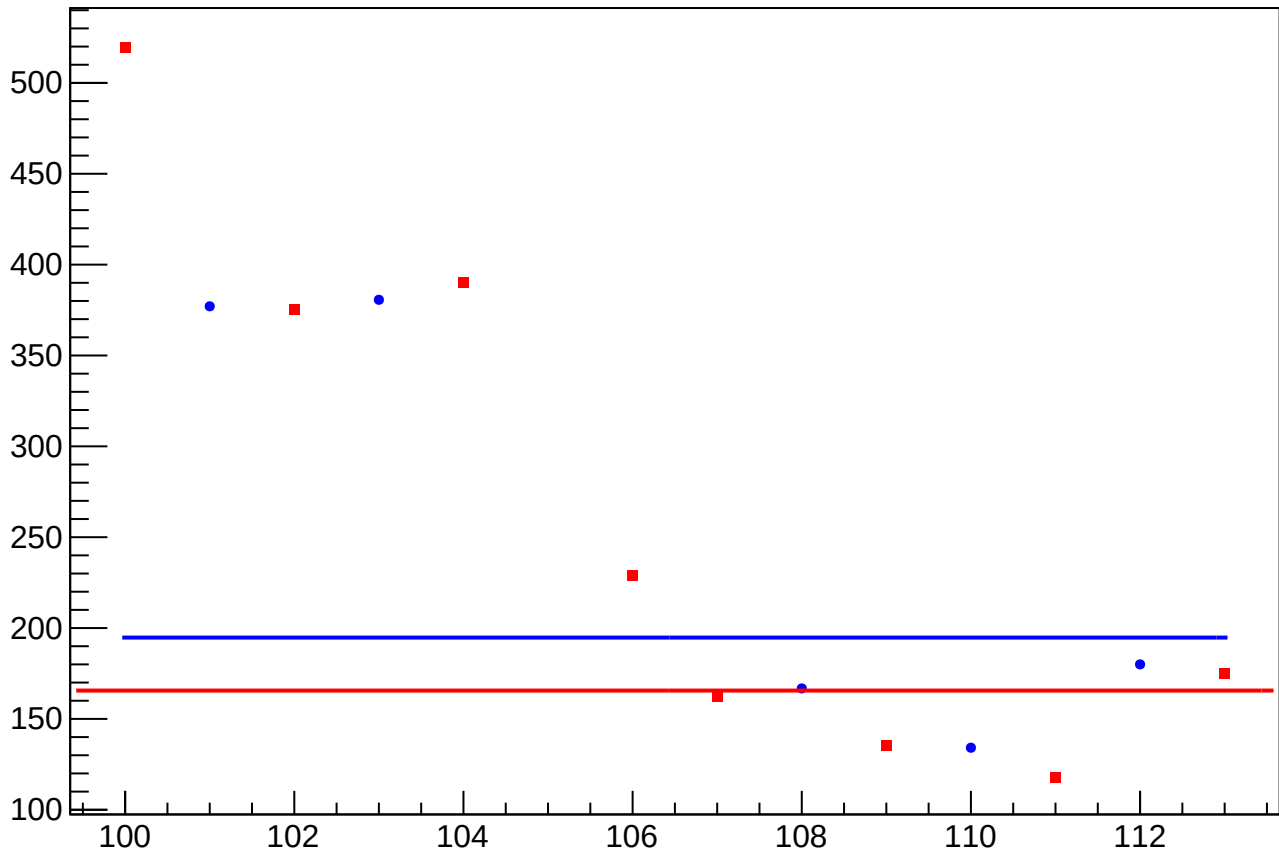
Right Out: 152551.732 $\pm$ 0.106  $\chi^2$ /NDF: 76119658.0/7

All: 152380.616 $\pm$ 0.084  $\chi^2$ /NDF: 107126063.0/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i07WS\_rms vs Slug



Right In: 194.763 $\pm$ 0.098  $\chi^2$ /NDF: 748943.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 165.604 $\pm$ 0.075  $\chi^2$ /NDF: 1041245.5/7

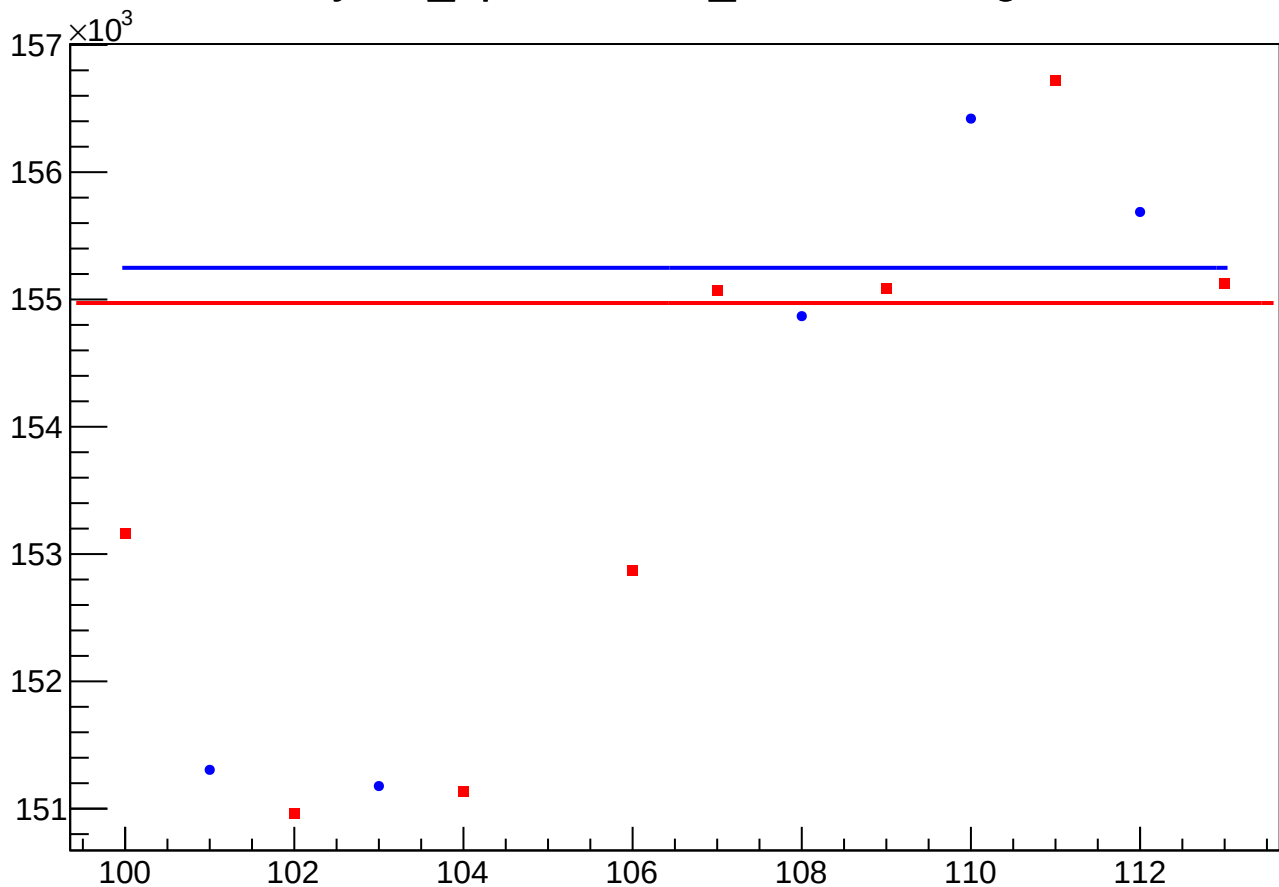
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 176.314 $\pm$ 0.059  $\chi^2$ /NDF: 1846181.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i02WS\_mean vs Slug



Right In: 155248.647 $\pm$ 0.114  $\chi^2$ /NDF: 168571473.3/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

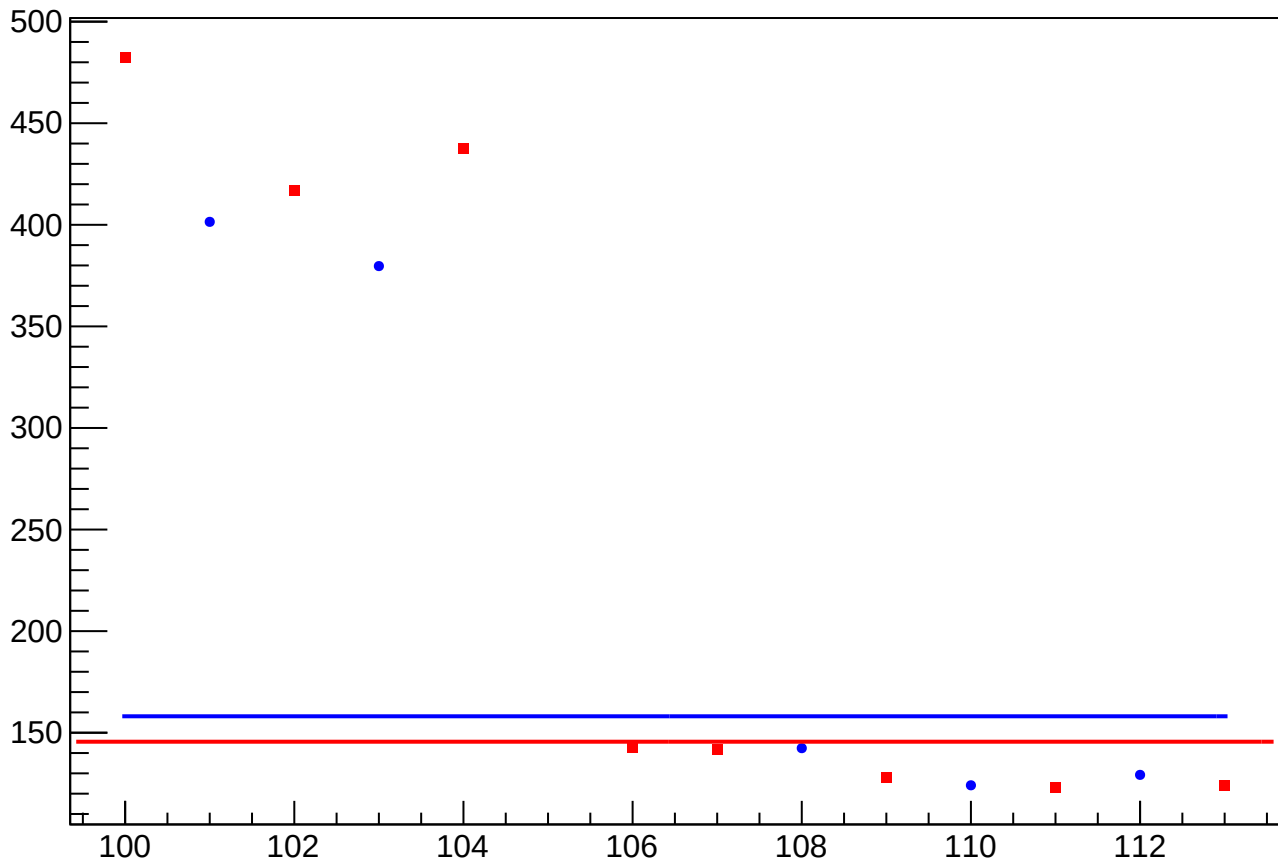
Right Out: 154972.177 $\pm$ 0.090  $\chi^2$ /NDF: 258295388.0/7

All: 155078.570 $\pm$ 0.071  $\chi^2$ /NDF: 430485445

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i02WS\_rms vs Slug



Right In: 158.089+/-0.081  $\chi^2/\text{NDF}$ : 975139.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 145.574+/-0.064  $\chi^2/\text{NDF}$ : 1156403.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

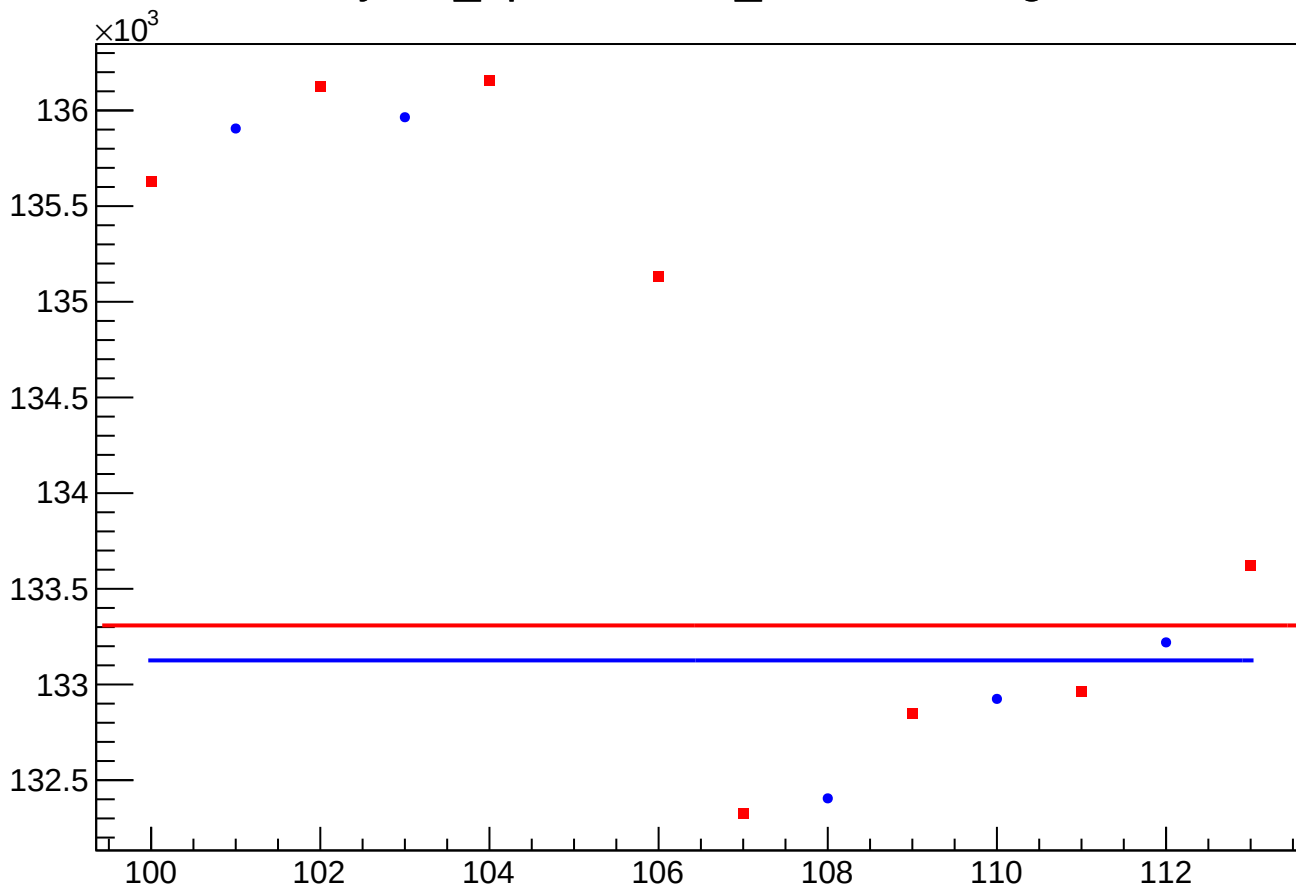
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 150.390+/-0.050  $\chi^2/\text{NDF}$ : 2146370.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm1i04WS\_mean vs Slug



Right In: 133125.851 $\pm$ 0.087  $\chi^2$ /NDF: 90628487.1/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

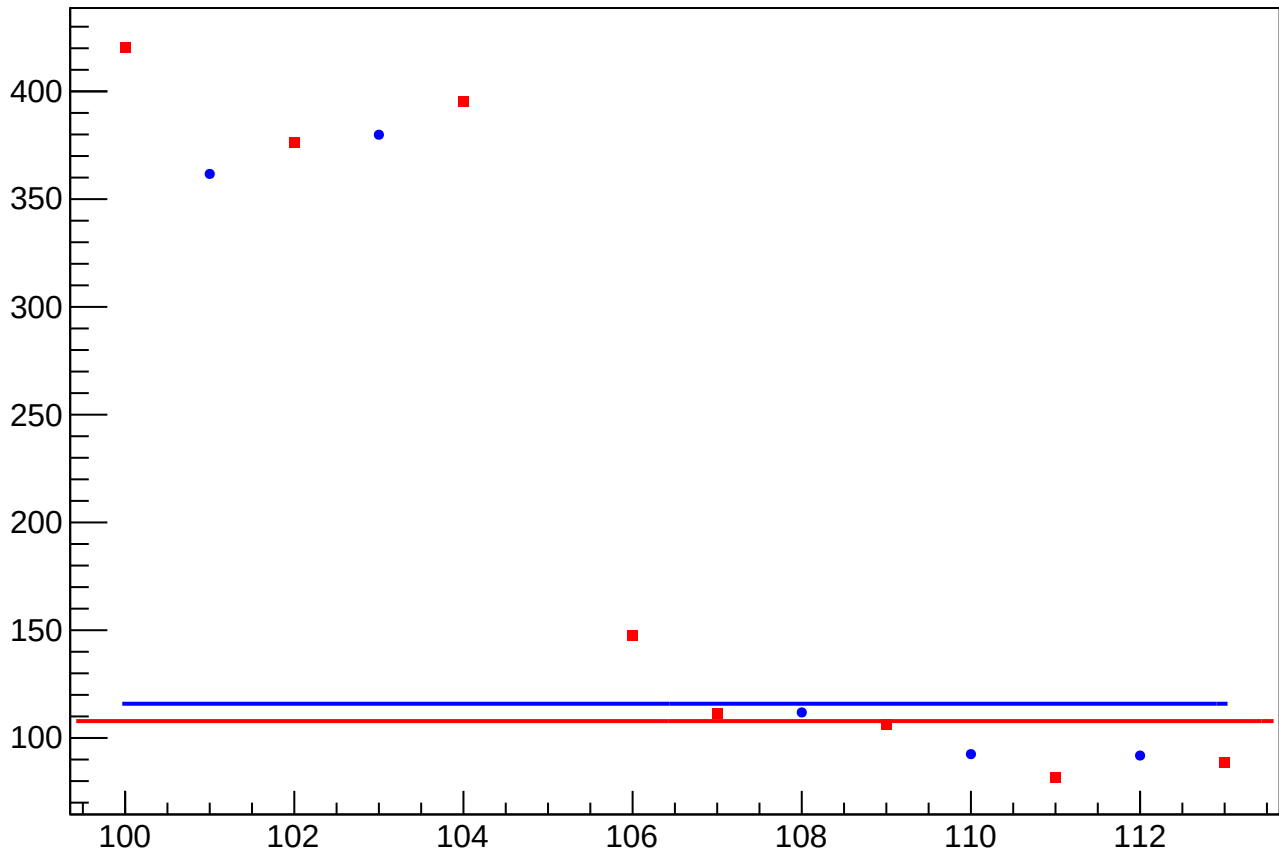
All: 133236.210 $\pm$ 0.055  $\chi^2$ /NDF: 236982957

Right Out: 133308.605 $\pm$ 0.070  $\chi^2$ /NDF: 143667845.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i04WS\_rms vs Slug



Right In: 115.889 $\pm$ 0.061  $\chi^2$ /NDF: 1295888.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 107.841 $\pm$ 0.050  $\chi^2$ /NDF: 1451981.4/7

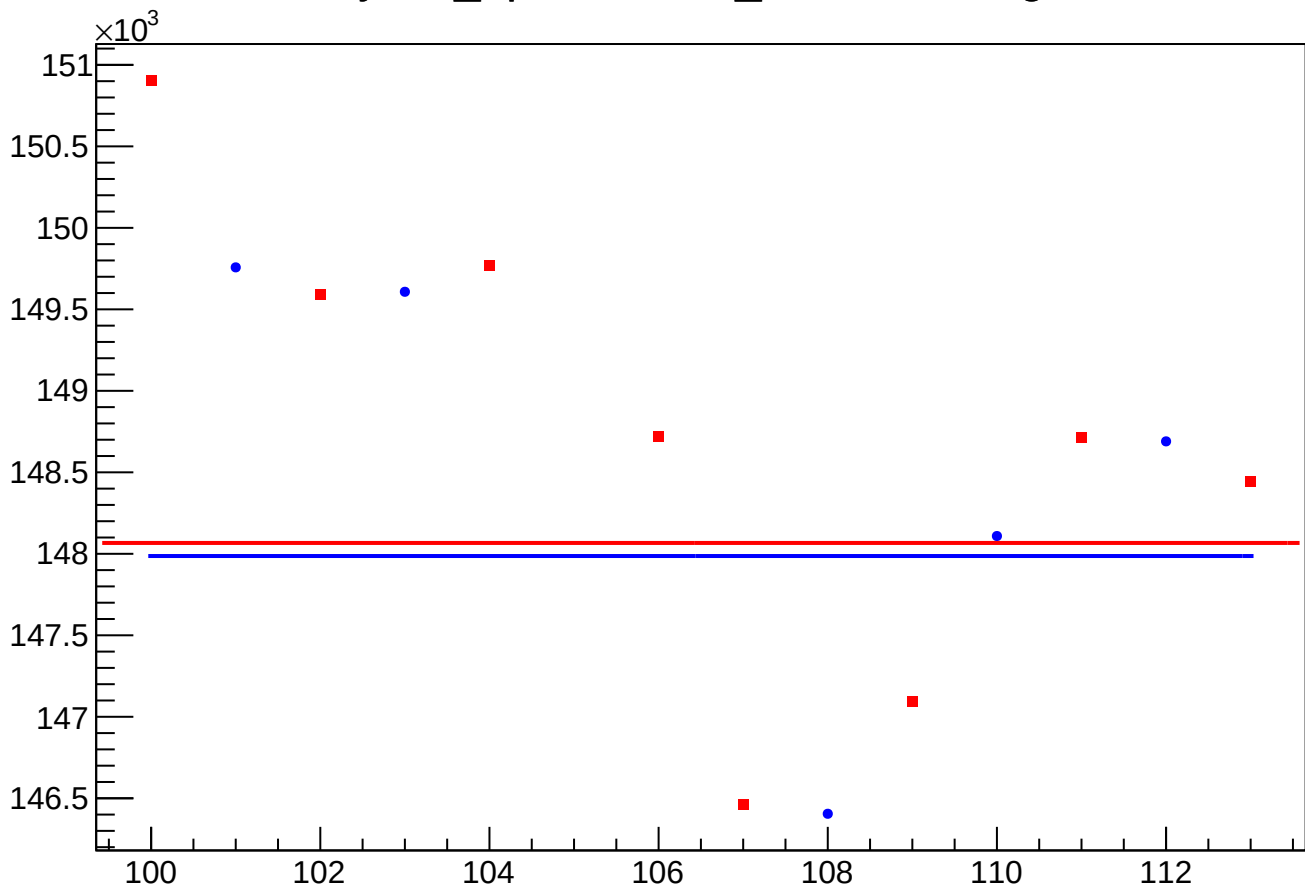
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 111.029 $\pm$ 0.039  $\chi^2$ /NDF: 2758290.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i06WS\_mean vs Slug



Right In: 147986.449 $\pm$ 0.105  $\chi^2$ /NDF: 100434495.7/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

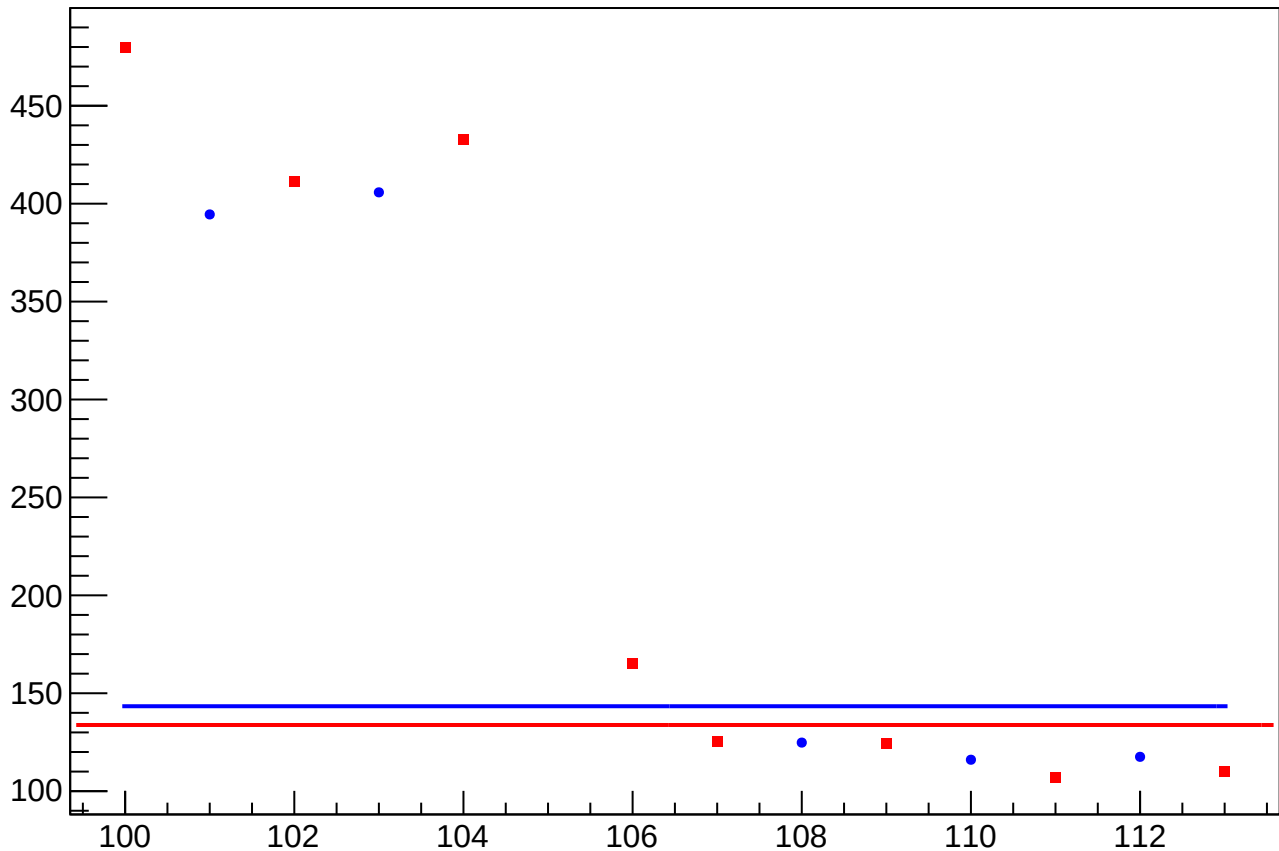
All: 148035.013 $\pm$ 0.066  $\chi^2$ /NDF: 215925829

Right Out: 148066.682 $\pm$ 0.085  $\chi^2$ /NDF: 115136344.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i06WS\_rms vs Slug



Right In: 143.371 $\pm$ 0.074  $\chi^2$ /NDF: 1131559.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 133.792 $\pm$ 0.060  $\chi^2$ /NDF: 1283927.1/7

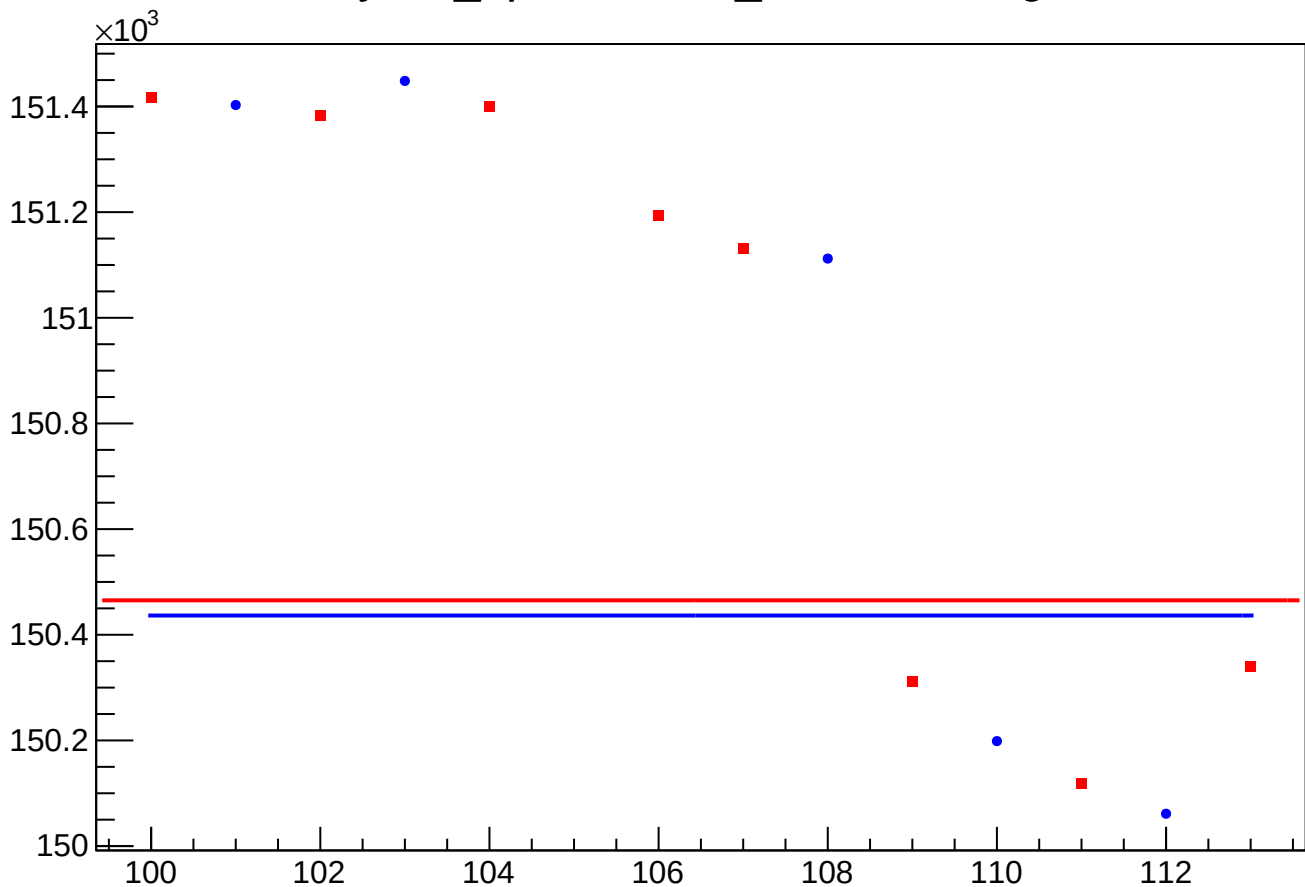
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 137.573 $\pm$ 0.047  $\chi^2$ /NDF: 2425605.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i01WS\_mean vs Slug



Right In: 150436.438 $\pm$ 0.094  $\chi^2$ /NDF: 28230664.5/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

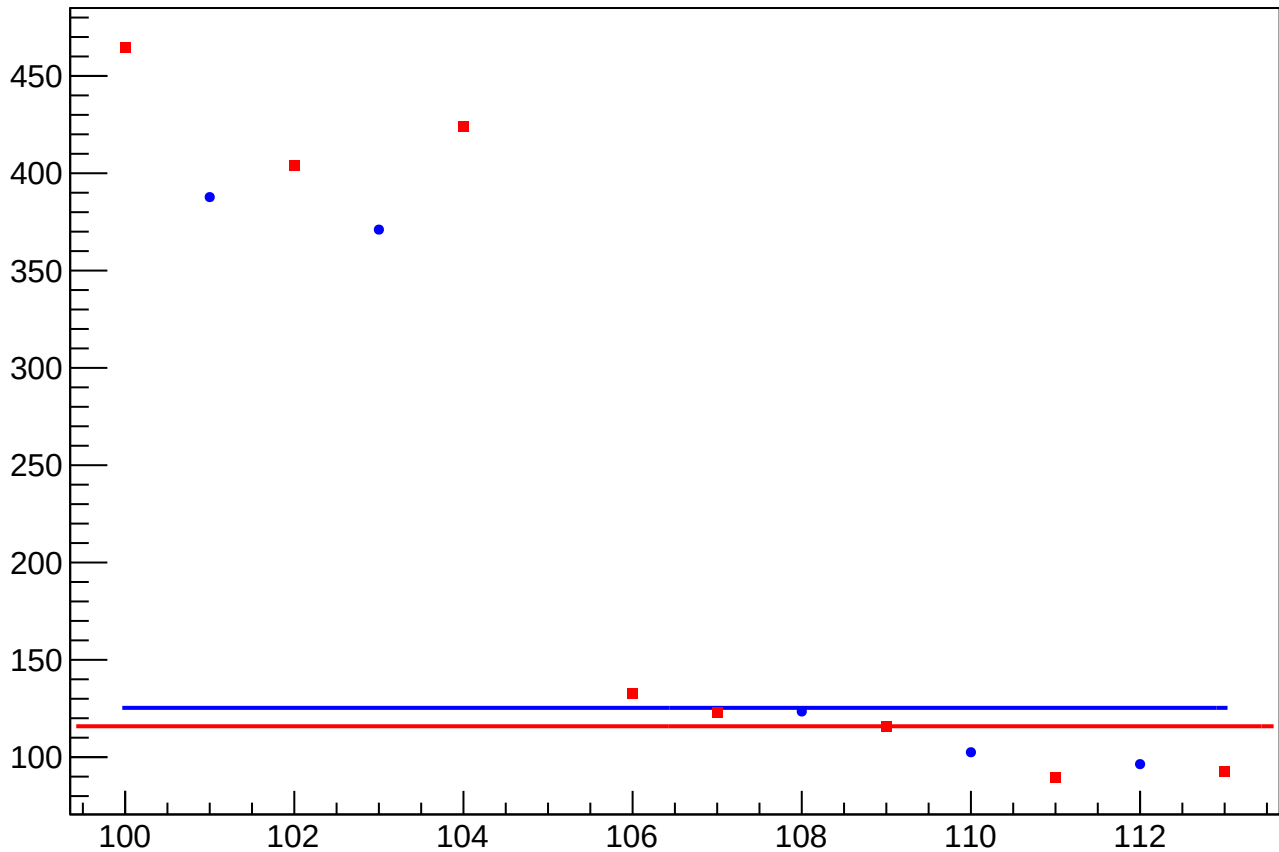
All: 150454.124 $\pm$ 0.058  $\chi^2$ /NDF: 59078539.

Right Out: 150465.191 $\pm$ 0.074  $\chi^2$ /NDF: 30789901.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i01WS\_rms vs Slug



Right In: 125.331+/-0.066  $\chi^2/\text{NDF}$ : 1212520.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 115.873+/-0.052  $\chi^2/\text{NDF}$ : 1426901.2/7

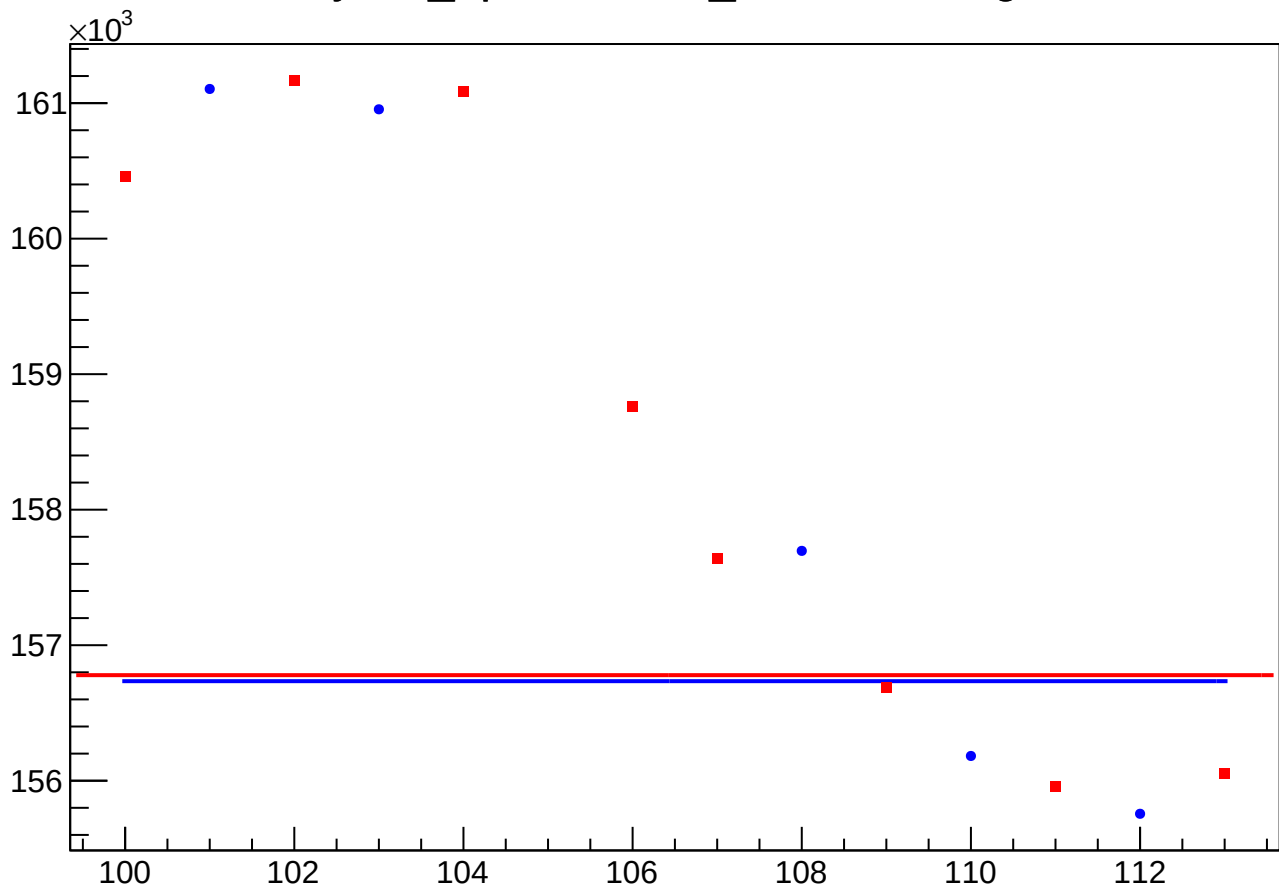
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 119.513+/-0.041  $\chi^2/\text{NDF}$ : 2651967.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02WS\_mean vs Slug



Right In: 156734.583 $\pm$ 0.100  $\chi^2$ /NDF: 208701187.3/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

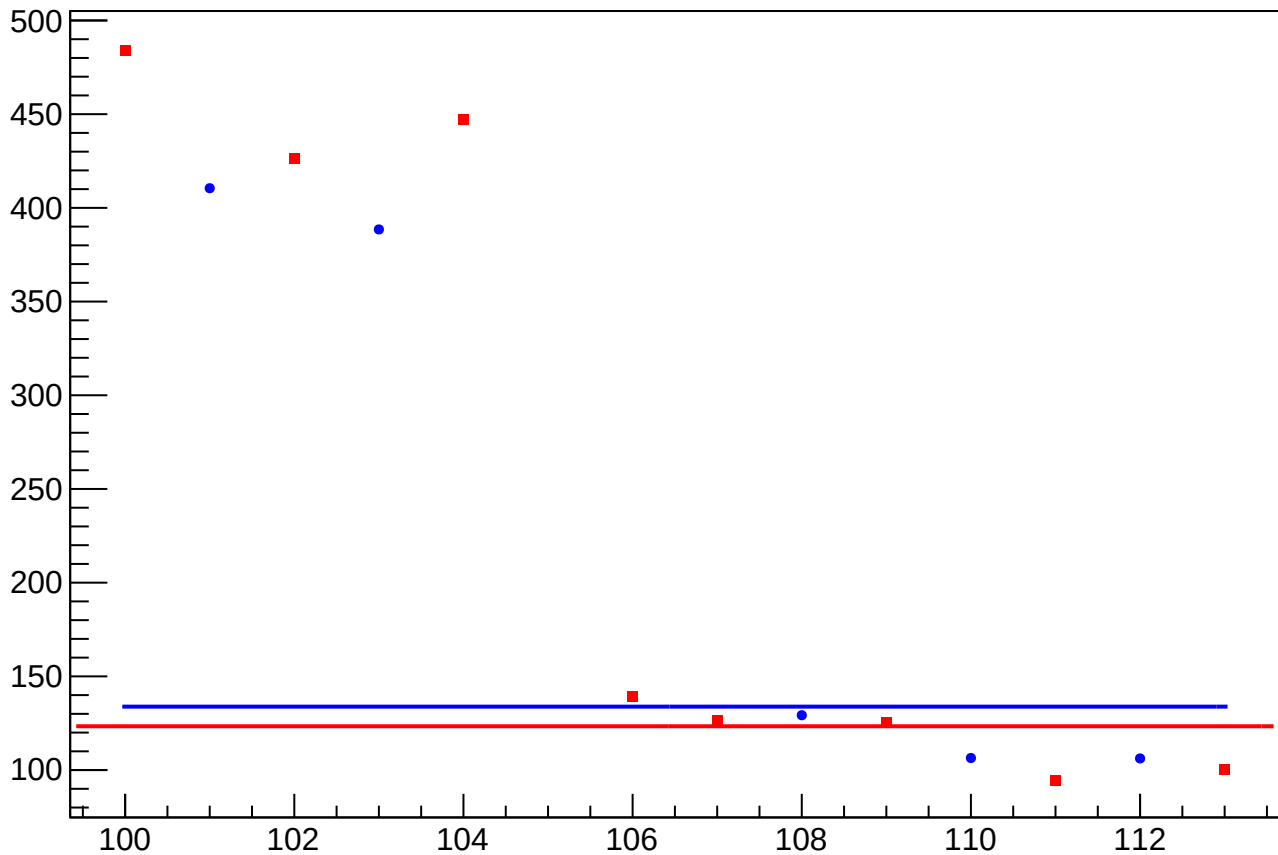
Right Out: 156778.945 $\pm$ 0.079  $\chi^2$ /NDF: 251218052.2/7

All: 156761.916 $\pm$ 0.062  $\chi^2$ /NDF: 460041235

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i02WS\_rms vs Slug



Right In: 133.850+/-0.070  $\chi^2/\text{NDF}$ : 1189828.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 123.377+/-0.056  $\chi^2/\text{NDF}$ : 1413556.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

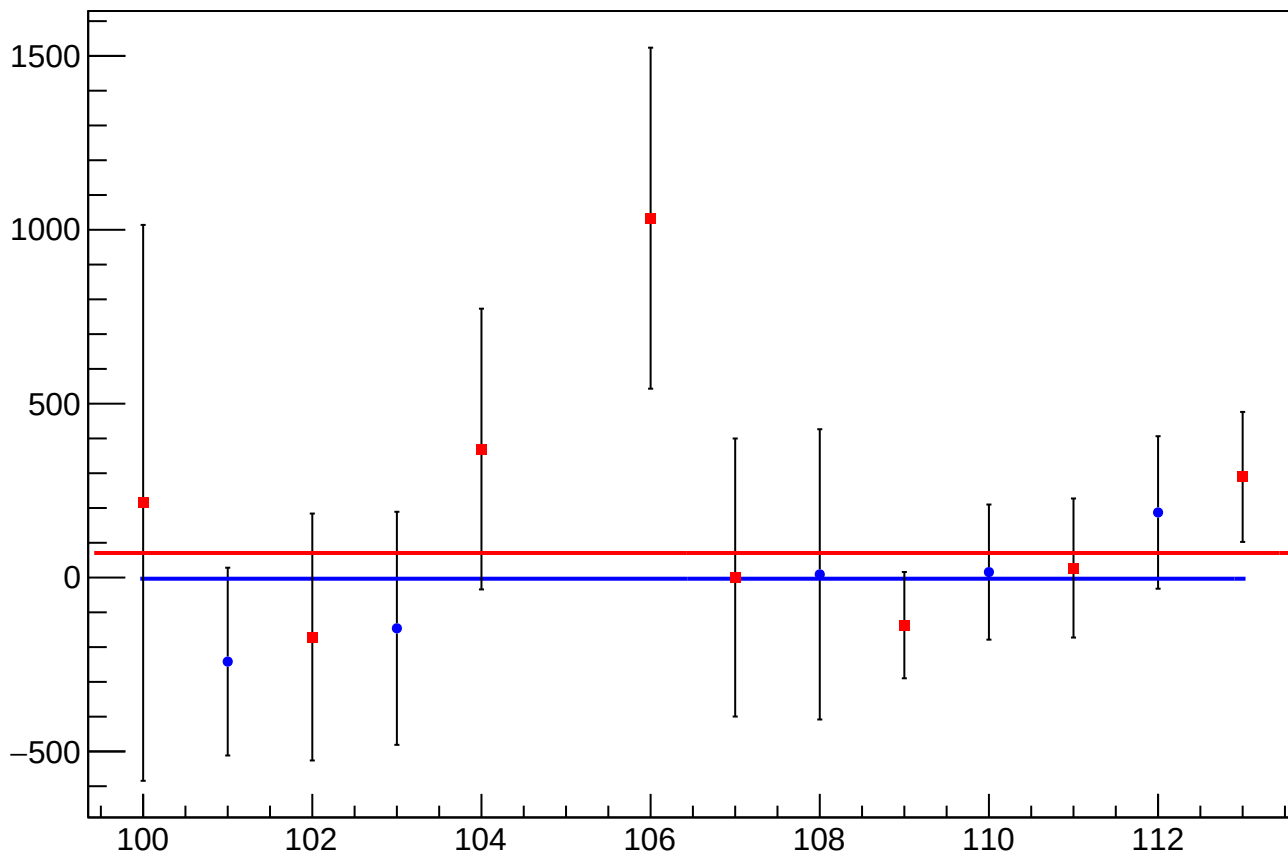
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 127.397+/-0.044  $\chi^2/\text{NDF}$ : 2616983.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bcm\_target\_mean vs Slug



Right In: -3.339+/-114.968  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 70.674+/-90.345  $\chi^2/\text{NDF}$ : 8.2/7

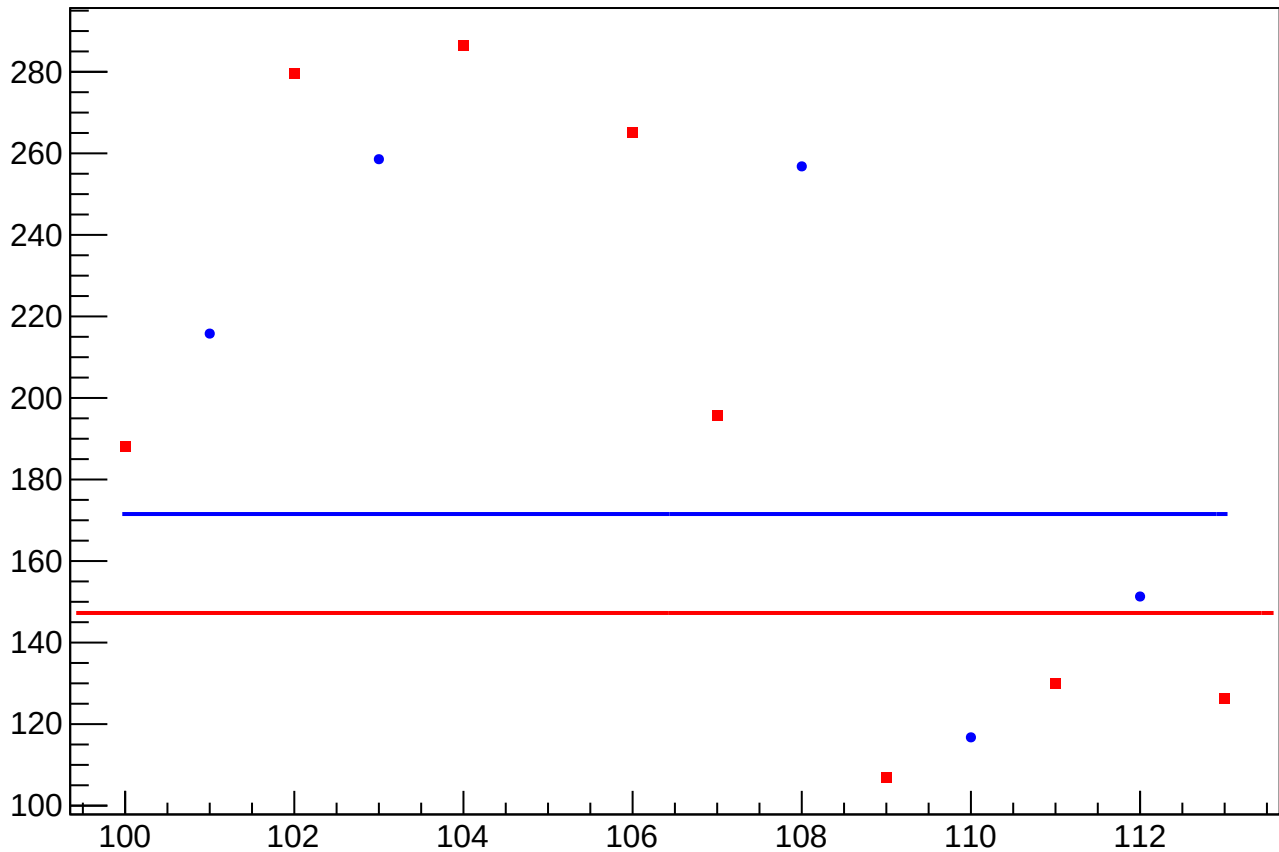
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 42.418+/-71.036  $\chi^2/\text{NDF}$ : 10.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_target\_rms vs Slug



Right In: 171.532 $\pm$ 0.081  $\chi^2$ /NDF: 448175.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 147.261 $\pm$ 0.064  $\chi^2$ /NDF: 845246.7/7

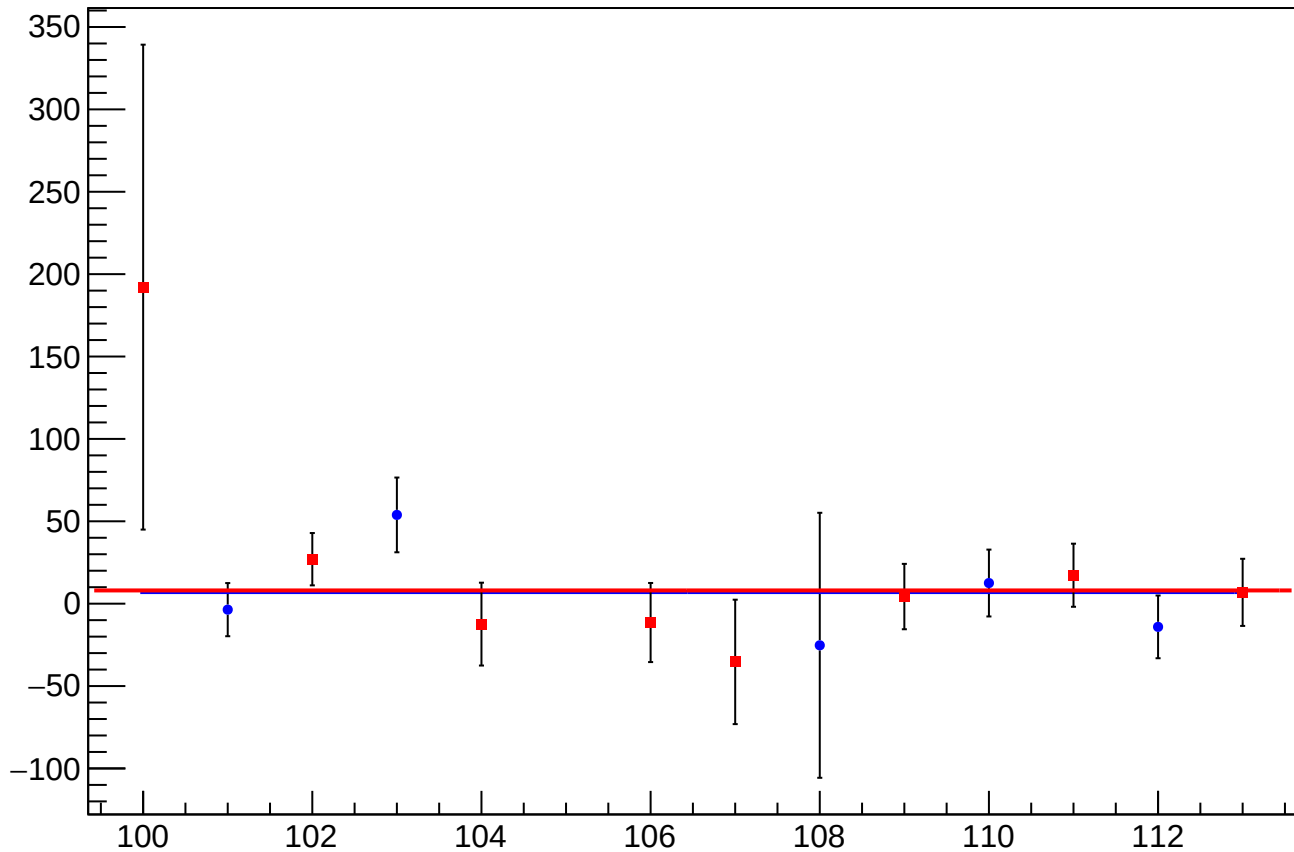
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.527 $\pm$ 0.050  $\chi^2$ /NDF: 1348528.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_diff\_mean vs Slug



Right In: 7.044+/-9.478  $\chi^2/\text{NDF}$ : 6.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.036+/-7.979  $\chi^2/\text{NDF}$ : 5.9/7

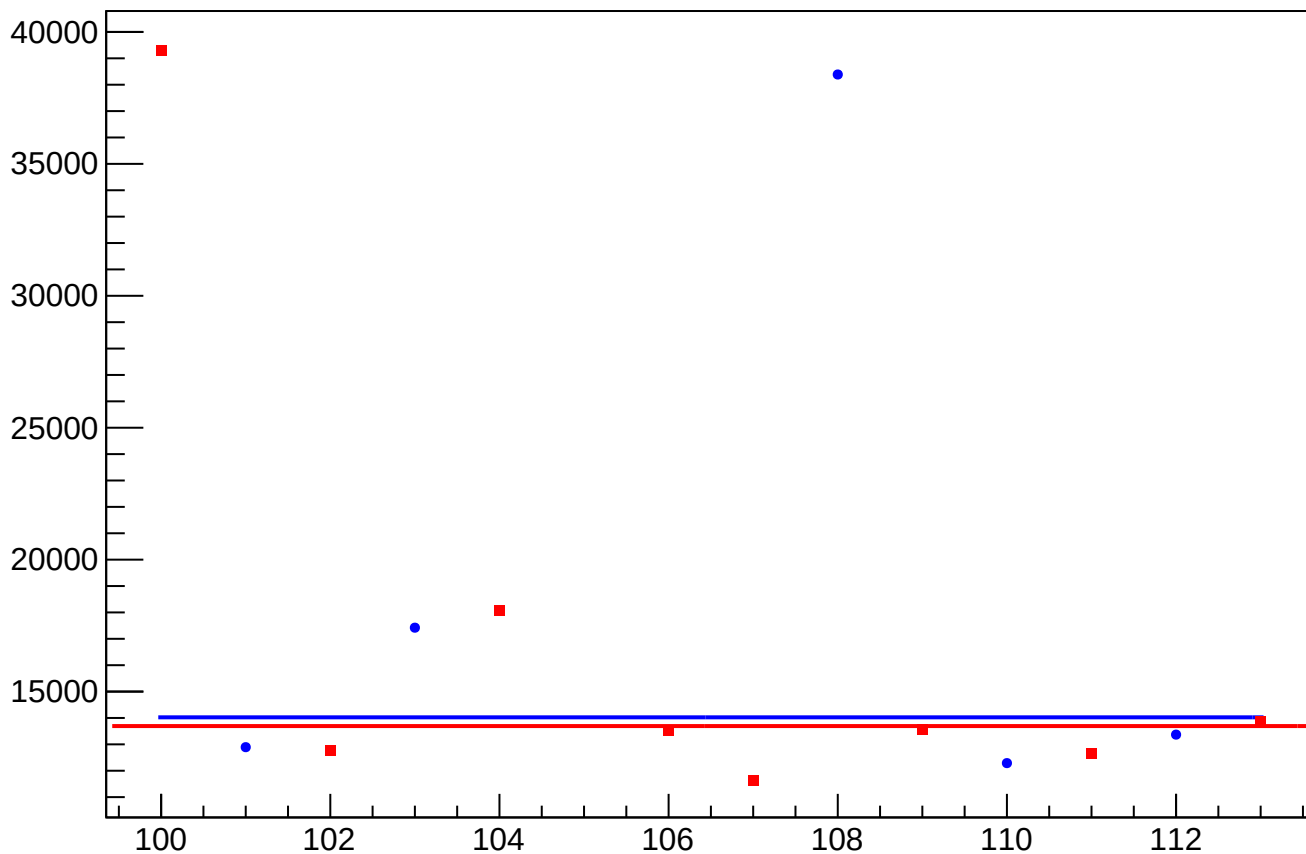
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.625+/-6.104  $\chi^2/\text{NDF}$ : 12.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_diff\_rms vs Slug



Right In: 14024.075+/-6.702  $\chi^2/\text{NDF}$ : 255253.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13692.997+/-5.642  $\chi^2/\text{NDF}$ : 139560.0/7

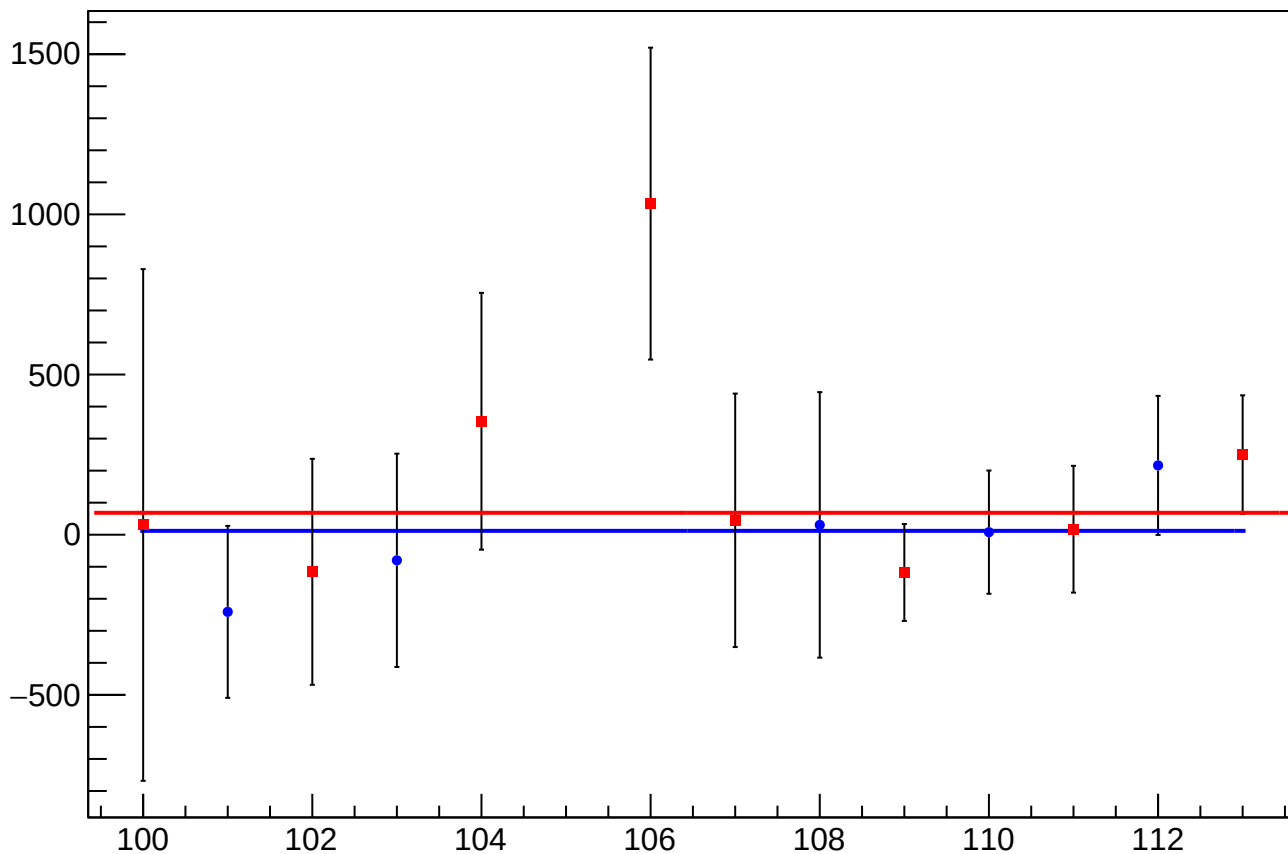
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13830.319+/-4.316  $\chi^2/\text{NDF}$ : 396241.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_ds\_mean vs Slug



Right In: 12.036+/-113.979  $\chi^2/\text{NDF}$ : 1.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 68.456+/-89.490  $\chi^2/\text{NDF}$ : 7.3/7

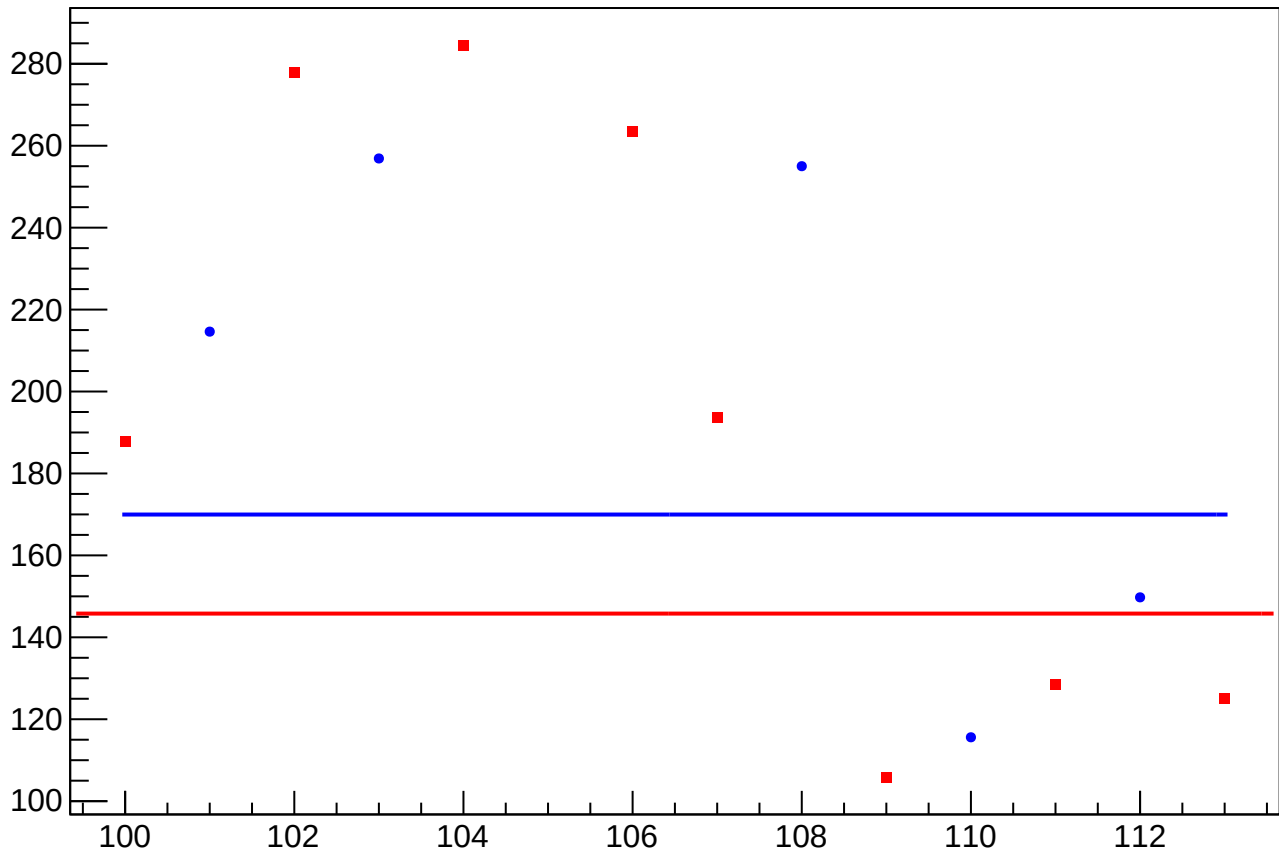
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.940+/-70.387  $\chi^2/\text{NDF}$ : 9.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_ds\_rms vs Slug



Right In: 169.970 $\pm$ 0.081  $\chi^2$ /NDF: 453014.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 145.791 $\pm$ 0.063  $\chi^2$ /NDF: 850627.2/7

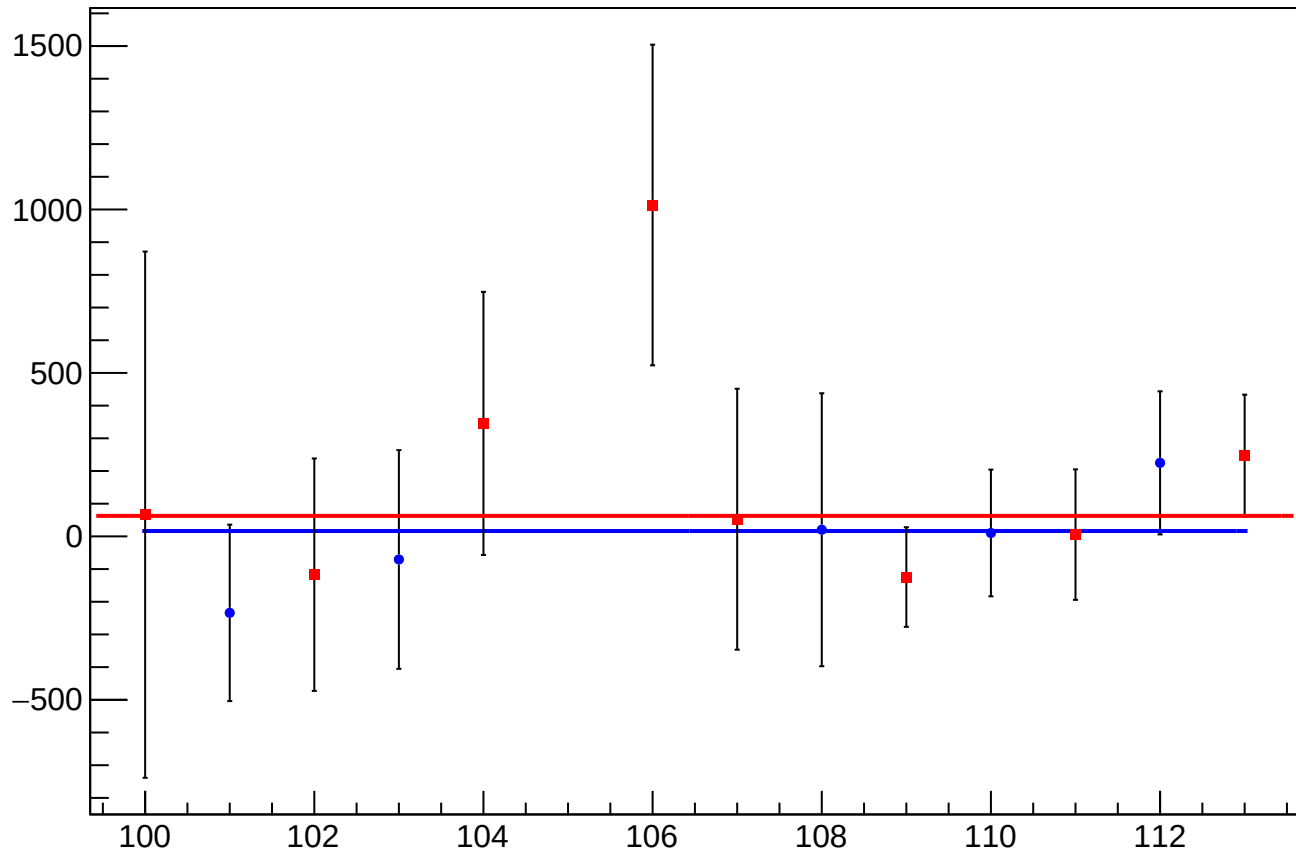
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 155.012 $\pm$ 0.050  $\chi^2$ /NDF: 1359325.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_ds3\_mean vs Slug



Right In: 16.426+/-114.798  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 62.748+/-90.196  $\chi^2/\text{NDF}$ : 7.1/7

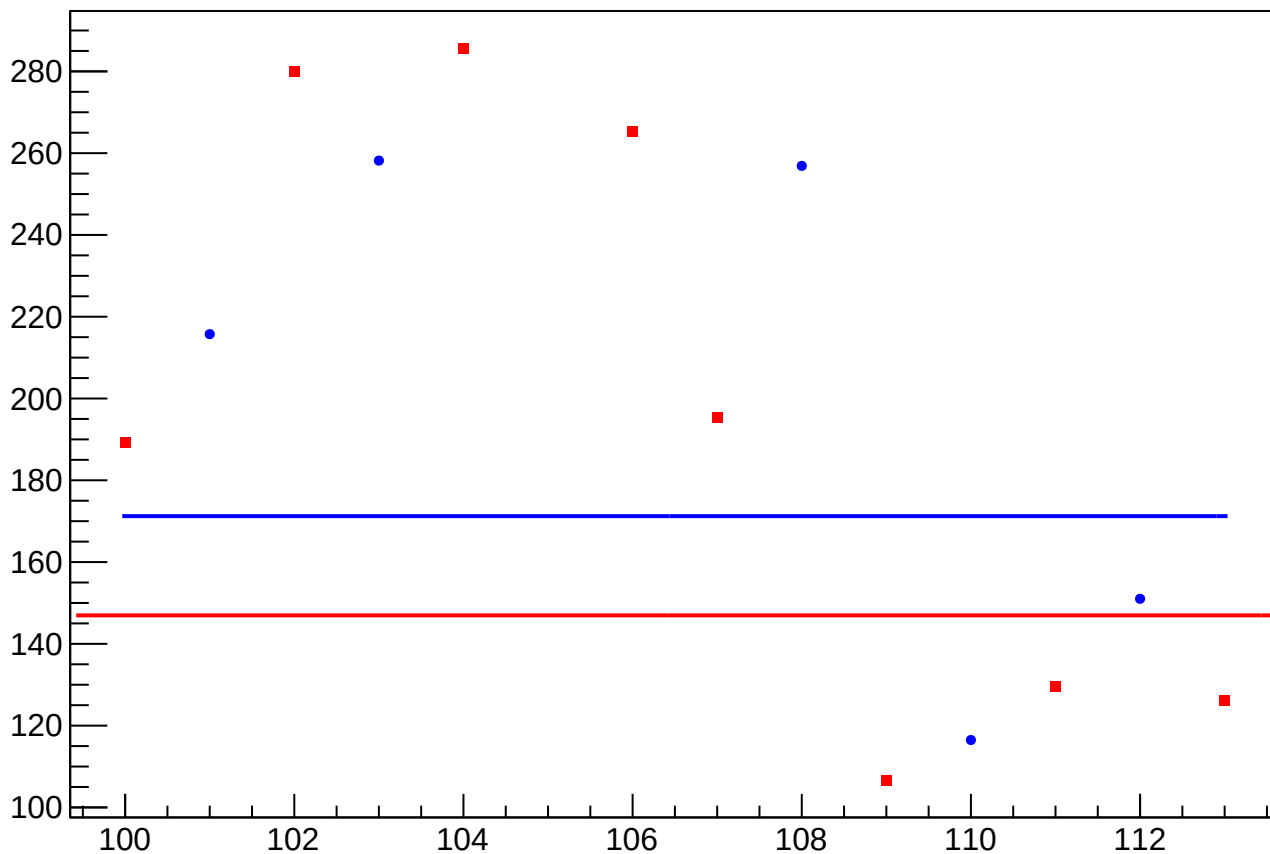
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 45.067+/-70.923  $\chi^2/\text{NDF}$ : 9.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_ds3\_rms vs Slug



Right In: 171.232 $\pm$ 0.081  $\chi^2$ /NDF: 450197.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 146.964 $\pm$ 0.064  $\chi^2$ /NDF: 848461.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

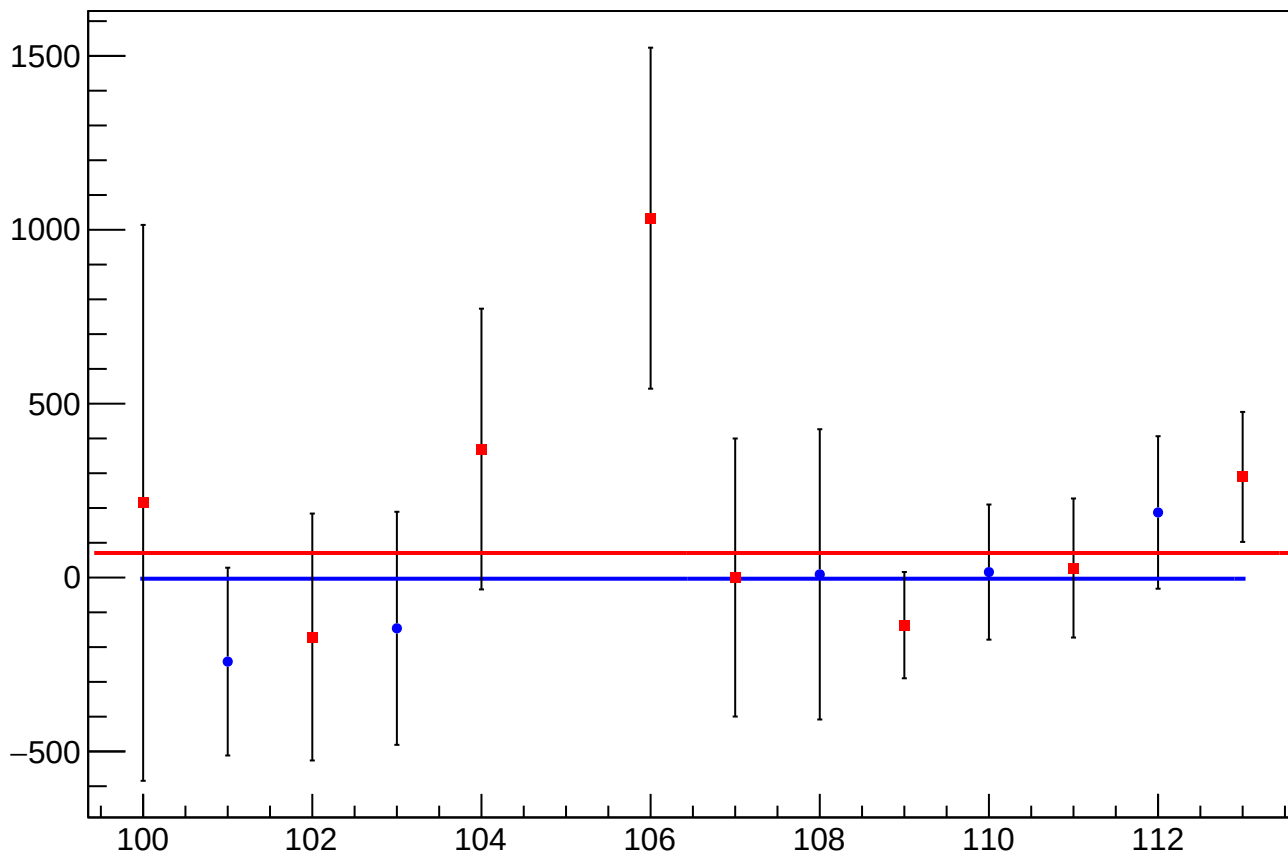
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.227 $\pm$ 0.050  $\chi^2$ /NDF: 1353924.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bcm\_an\_us\_mean vs Slug



Right In: -3.339+/-114.968  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 70.674+/-90.345  $\chi^2/\text{NDF}$ : 8.2/7

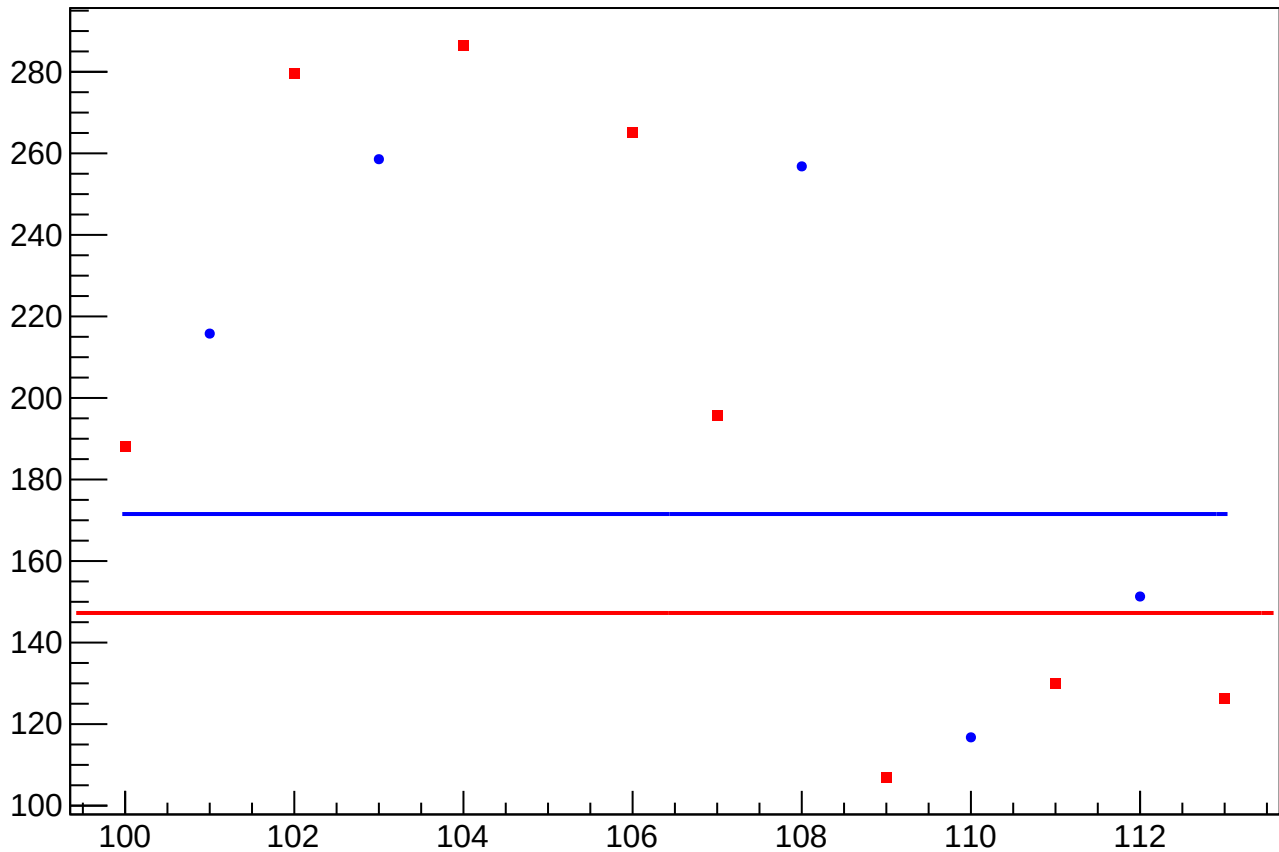
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 42.418+/-71.036  $\chi^2/\text{NDF}$ : 10.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_rms vs Slug



Right In: 171.532 $\pm$ 0.081  $\chi^2$ /NDF: 448175.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 147.261 $\pm$ 0.064  $\chi^2$ /NDF: 845246.7/7

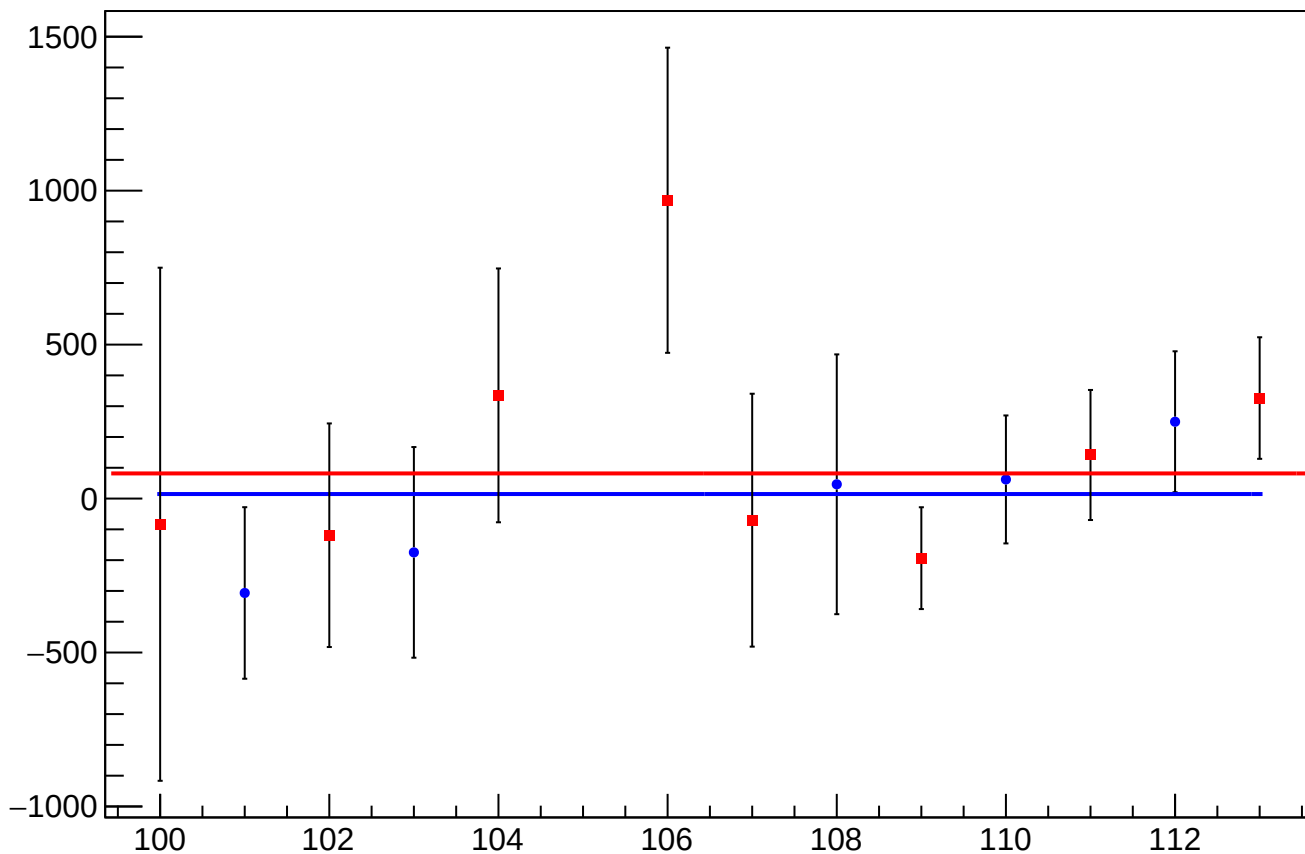
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.527 $\pm$ 0.050  $\chi^2$ /NDF: 1348528.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_mean vs Slug



Right In: 14.692+/-120.127  $\chi^2/\text{NDF}$ : 2.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 81.642+/-95.531  $\chi^2/\text{NDF}$ : 8.5/7

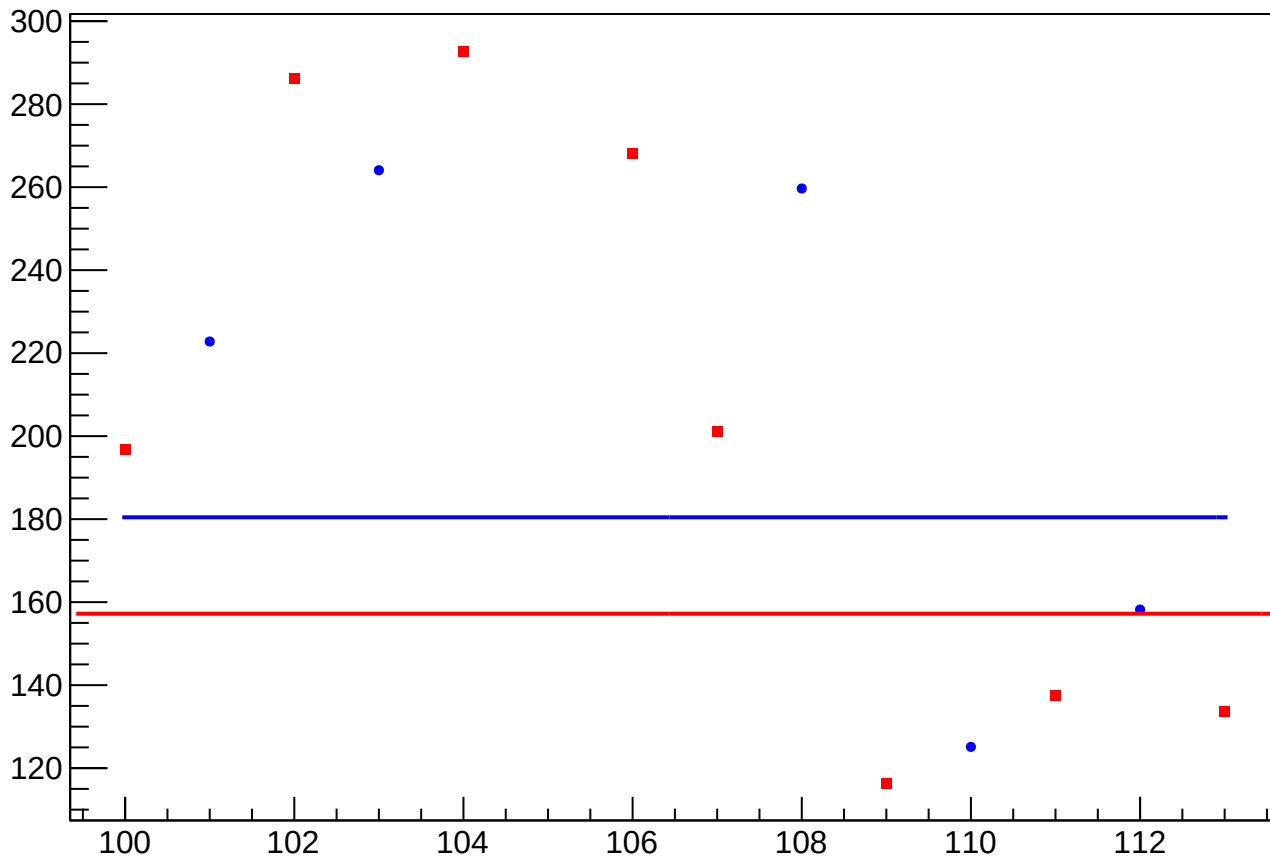
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 55.705+/-74.770  $\chi^2/\text{NDF}$ : 11.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_rms vs Slug



Right In: 180.447 $\pm$ 0.085  $\chi^2$ /NDF: 396921.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 157.211 $\pm$ 0.068  $\chi^2$ /NDF: 763810.0/7

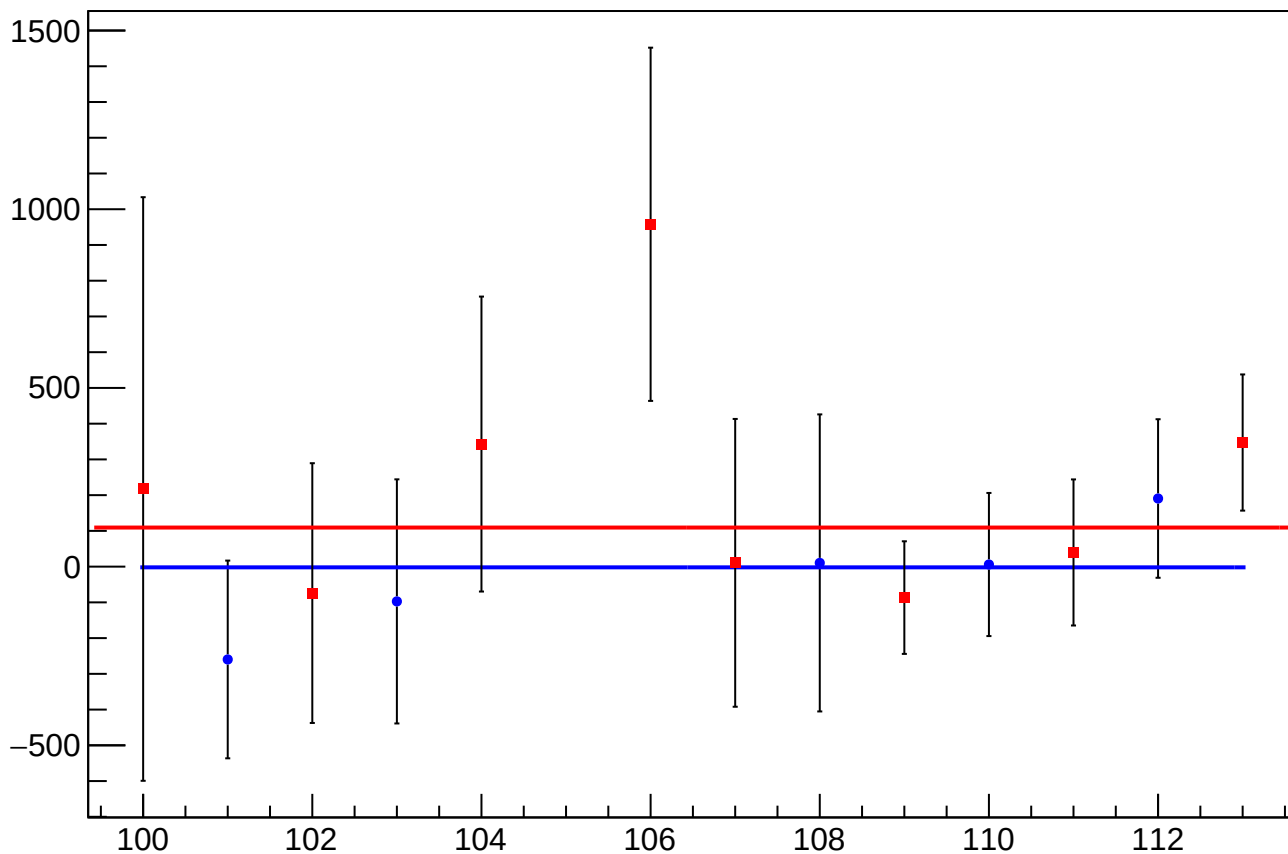
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 166.213 $\pm$ 0.053  $\chi^2$ /NDF: 1206569.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_ds\_mean vs Slug



Right In:  $-2.011 \pm 117.278$   $\chi^2/\text{NDF}$ : 1.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $109.334 \pm 92.453$   $\chi^2/\text{NDF}$ : 6.8/7

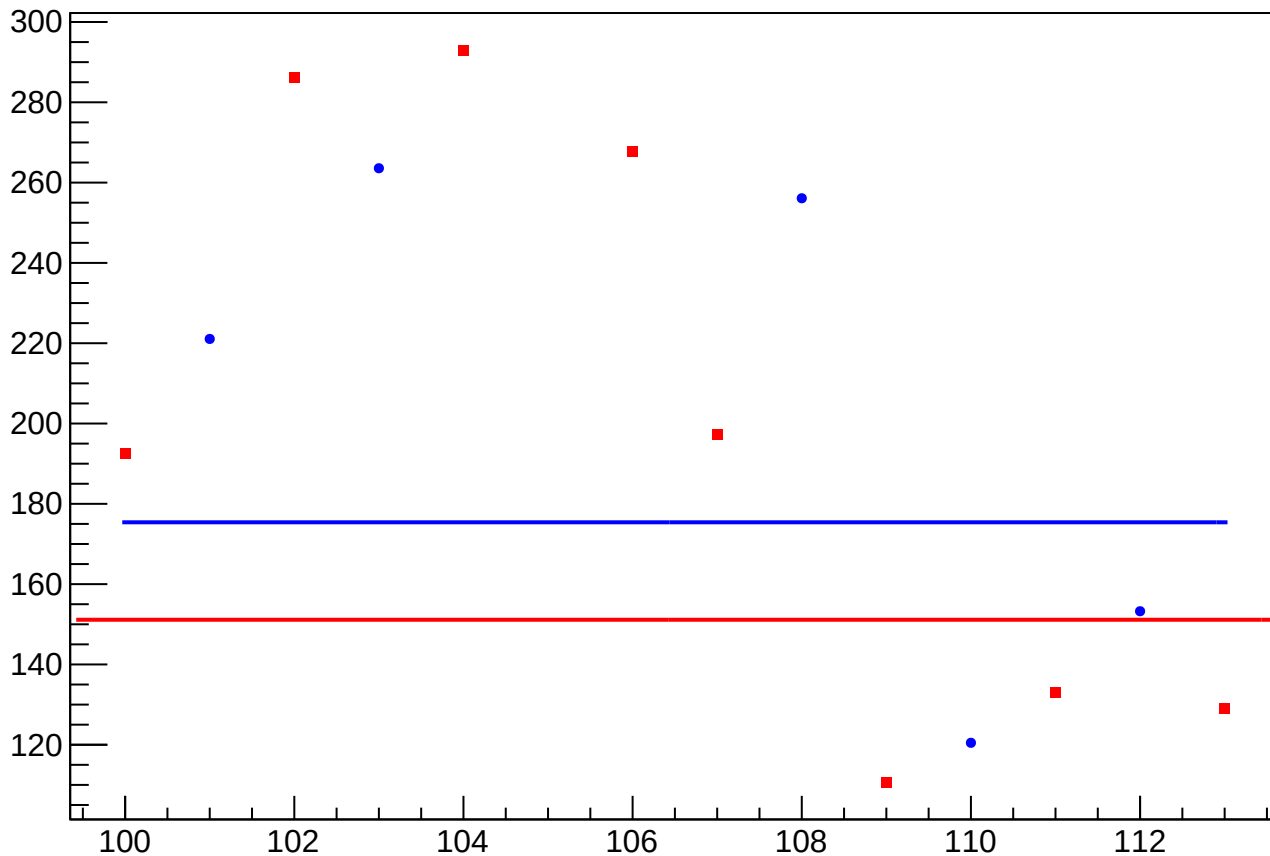
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $66.659 \pm 72.606$   $\chi^2/\text{NDF}$ : 9.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_rms vs Slug



Right In: 175.400 $\pm$ 0.083  $\chi^2$ /NDF: 433646.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 151.131 $\pm$ 0.065  $\chi^2$ /NDF: 830404.0/7

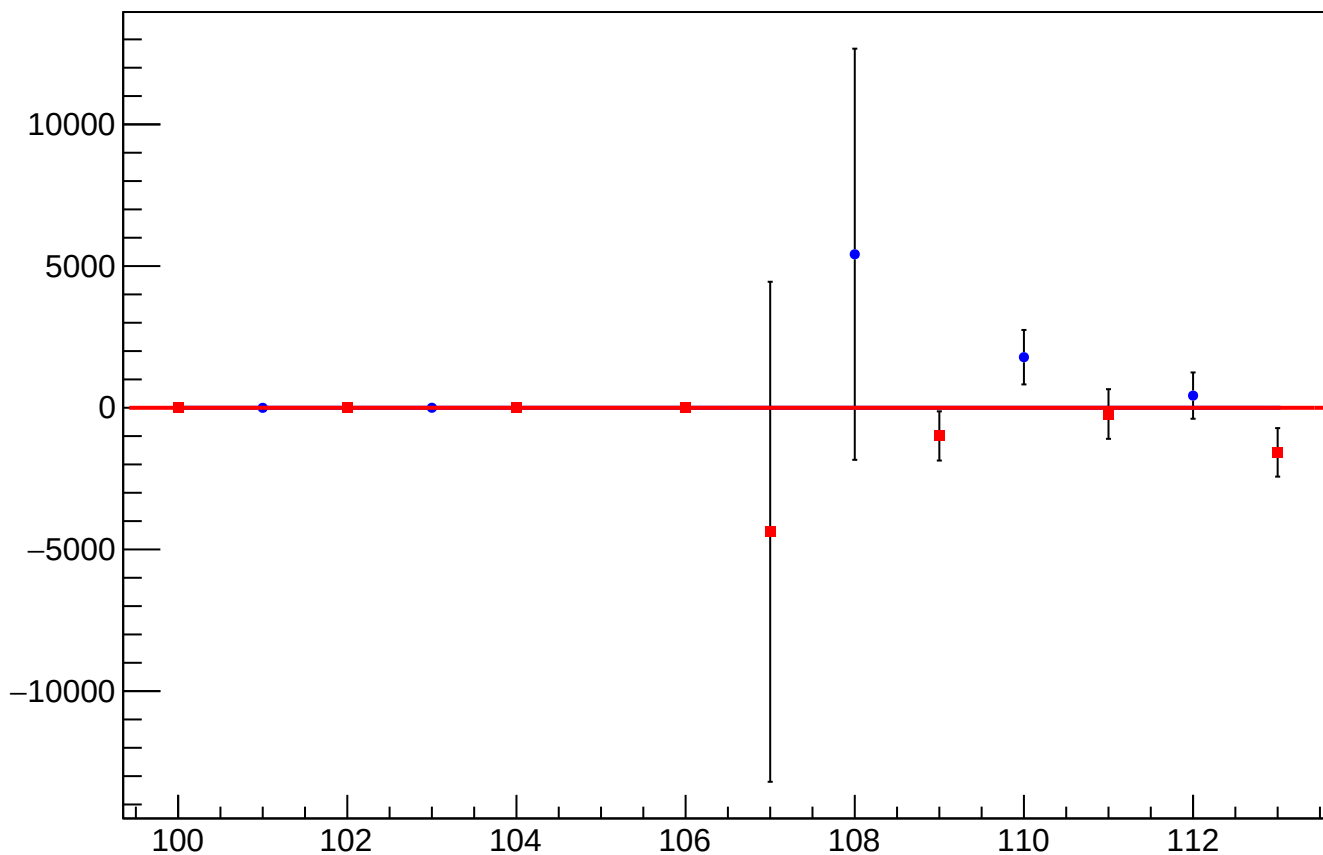
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 160.433 $\pm$ 0.051  $\chi^2$ /NDF: 1316872.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4bQ\_mean vs Slug



Right In: -1.206+/-2.171  $\chi^2/\text{NDF}$ : 4.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.378+/-2.022  $\chi^2/\text{NDF}$ : 10.2/7

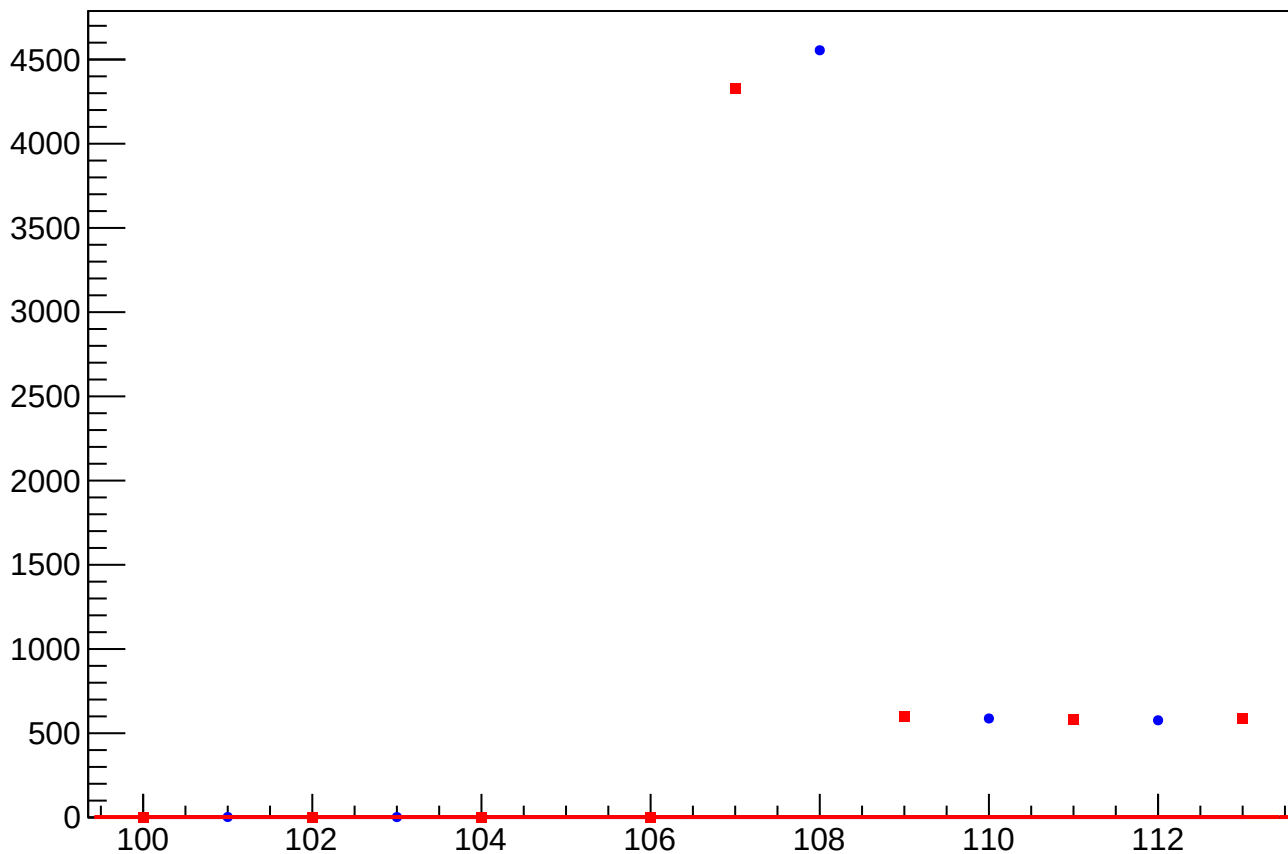
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.298+/-1.480  $\chi^2/\text{NDF}$ : 14.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_cav4bQ\_rms vs Slug



Right In: 2.437+/-0.002  $\chi^2/\text{NDF}$ : 2532849.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.432+/-0.001  $\chi^2/\text{NDF}$ : 3262014.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

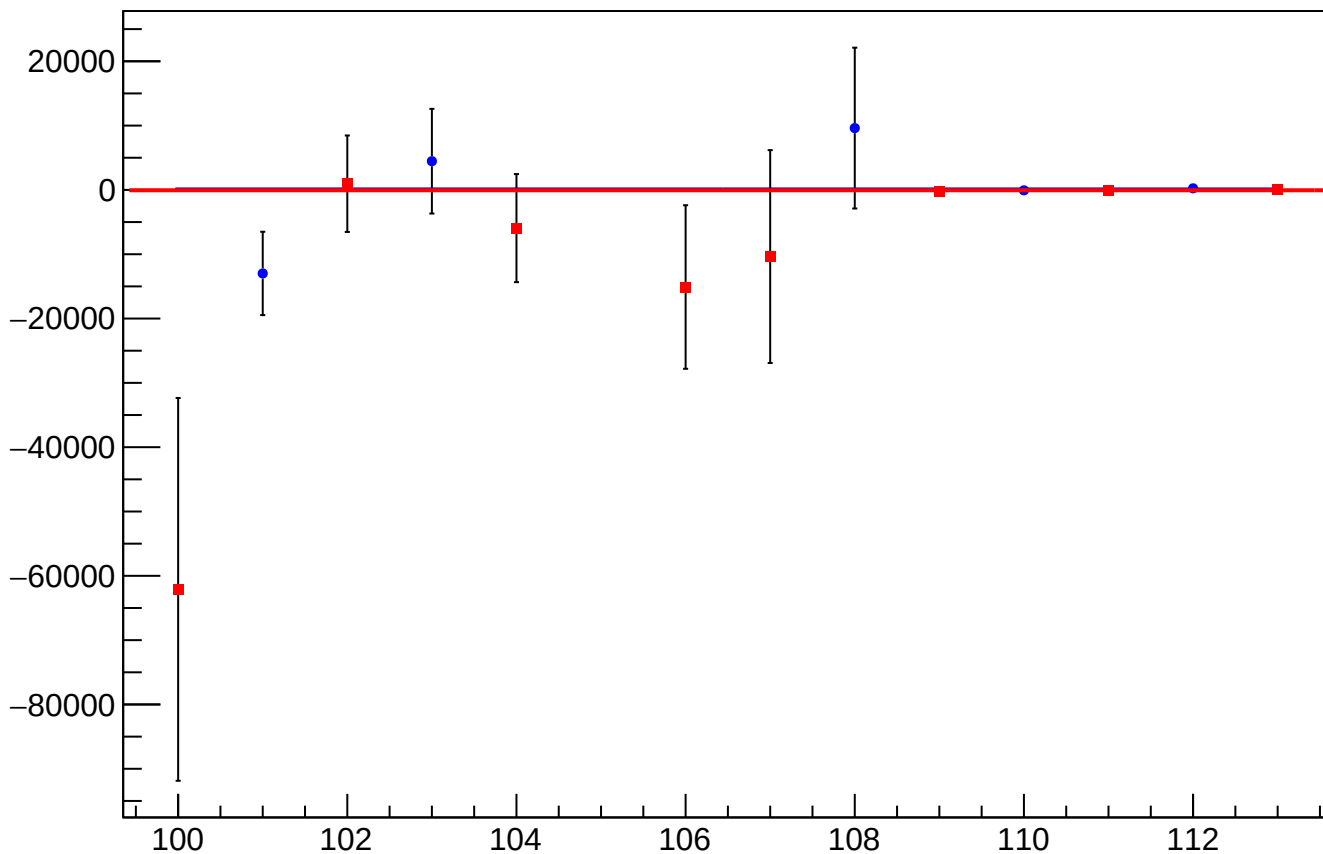
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.435+/-0.001  $\chi^2/\text{NDF}$ : 5794869.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_cav4cQ\_mean vs Slug



Right In: 72.472+/-151.932  $\chi^2/\text{NDF}$ : 6.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -54.994+/-120.277  $\chi^2/\text{NDF}$ : 7.3/7

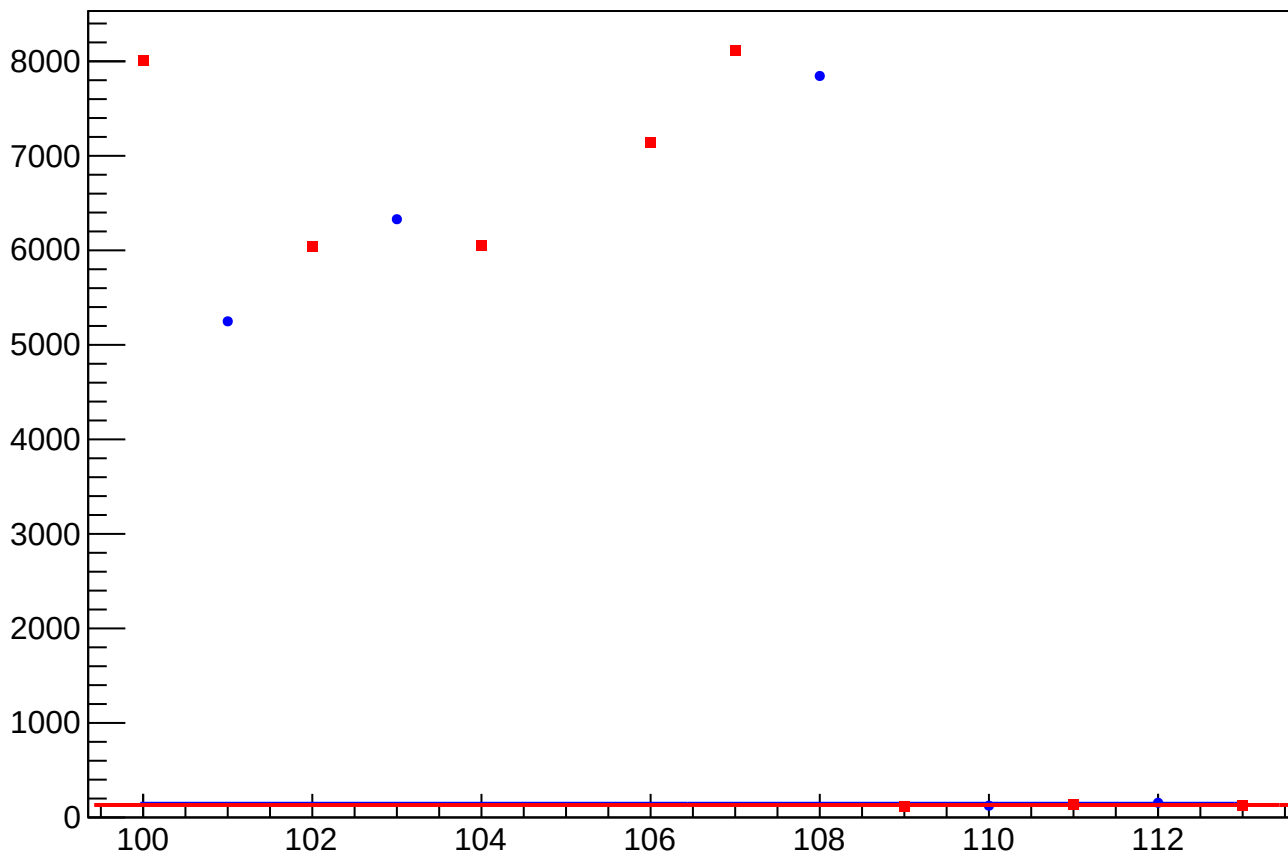
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.887+/-94.303  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_cav4cQ\_rms vs Slug



Right In: 144.723+/-0.107  $\chi^2/\text{NDF}$ : 3177931.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 131.993+/-0.085  $\chi^2/\text{NDF}$ : 3458104.7/7

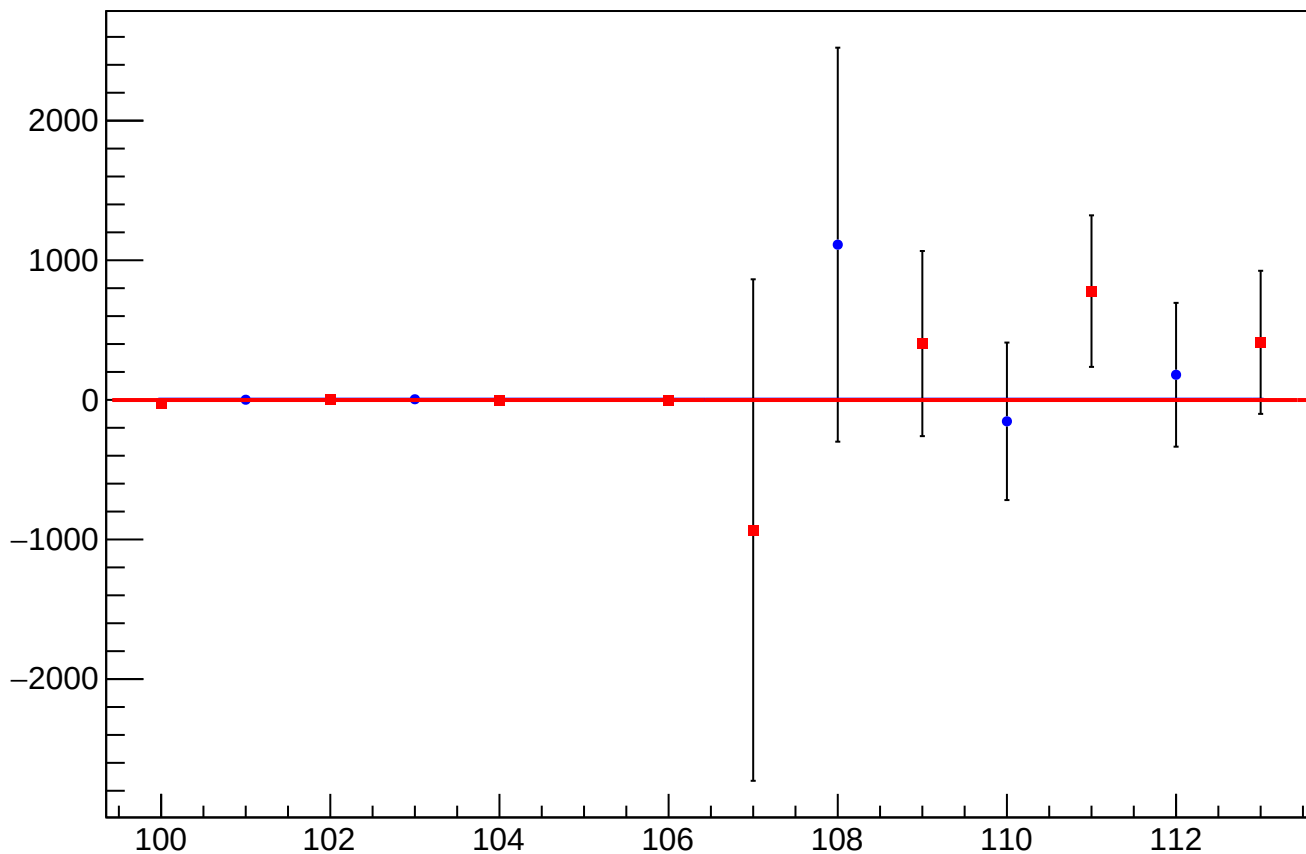
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 136.897+/-0.067  $\chi^2/\text{NDF}$ : 6644668.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_cav4dQ\_mean vs Slug



Right In: 1.446 $\pm$ 1.660  $\chi^2$ /NDF: 1.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.102 $\pm$ 1.528  $\chi^2$ /NDF: 5.9/7

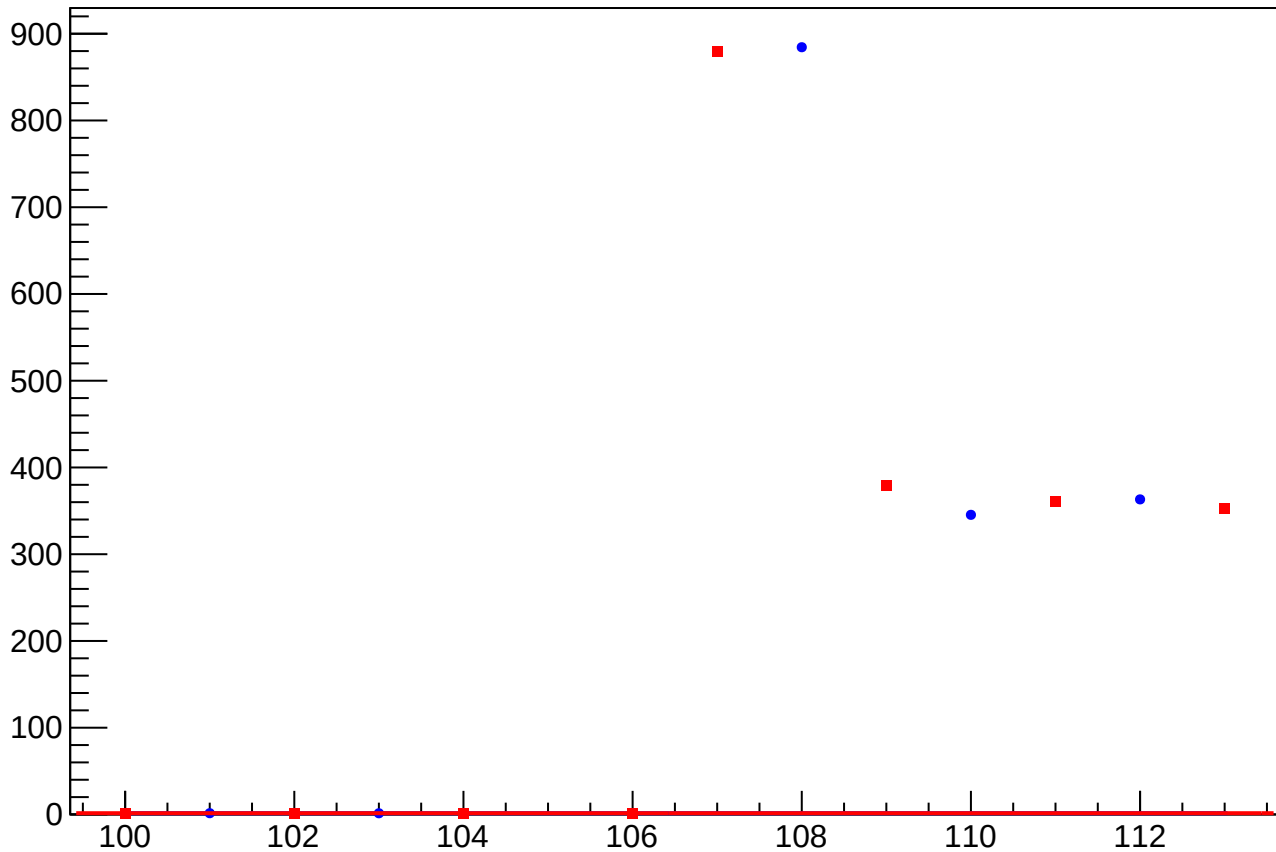
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.066 $\pm$ 1.124  $\chi^2$ /NDF: 8.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4dQ\_rms vs Slug



Right In: 1.437 $\pm$ 0.001  $\chi^2$ /NDF: 2513919.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.442 $\pm$ 0.001  $\chi^2$ /NDF: 2944149.1/7

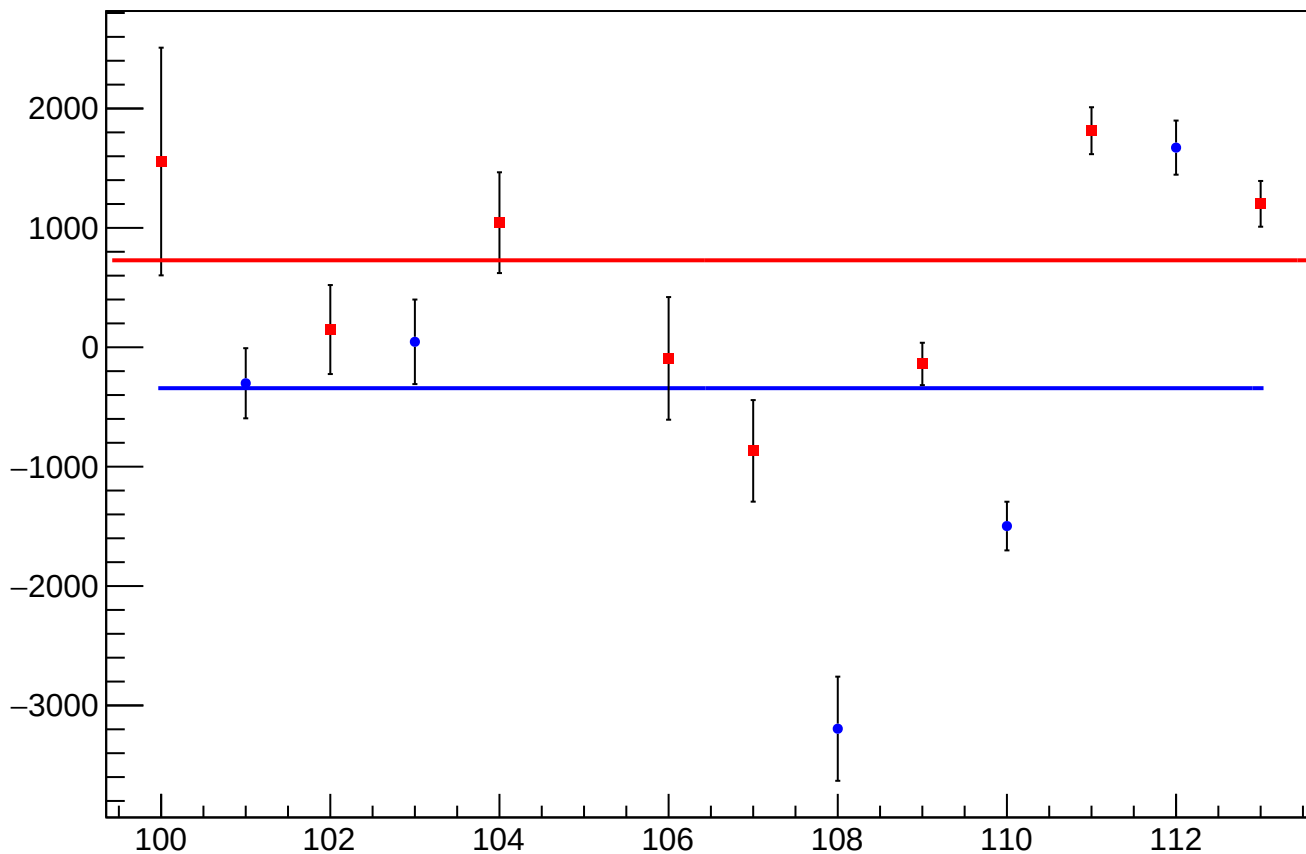
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.440 $\pm$ 0.001  $\chi^2$ /NDF: 5458076.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm0l02\_mean vs Slug



Right In: -342.619+/-120.941  $\chi^2$ /NDF: 155.1/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 728.522+/-96.185  $\chi^2$ /NDF: 80.9/7

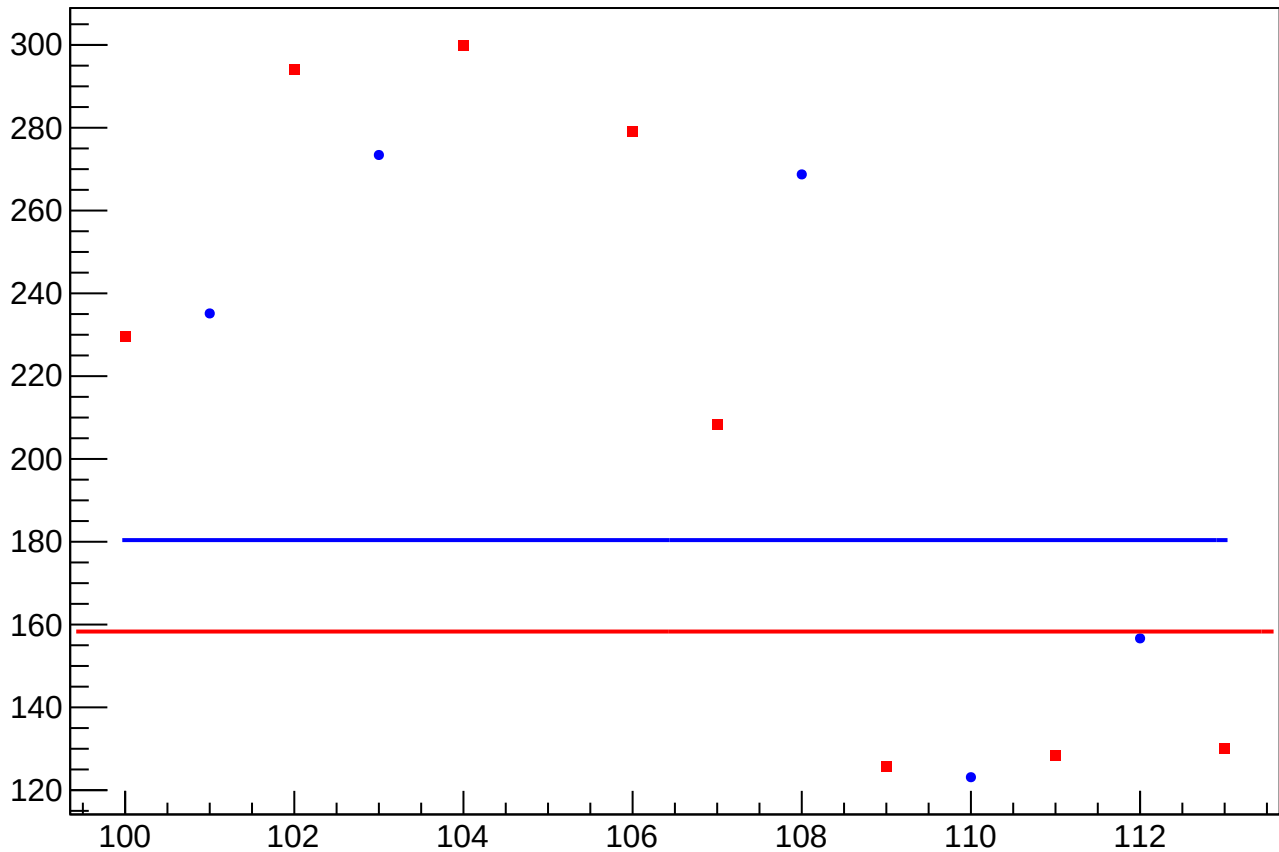
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 313.512+/-75.280  $\chi^2$ /NDF: 284.1/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm0l02\_rms vs Slug



Right In: 180.399 $\pm$ 0.086  $\chi^2$ /NDF: 469416.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 158.315 $\pm$ 0.068  $\chi^2$ /NDF: 797260.0/7

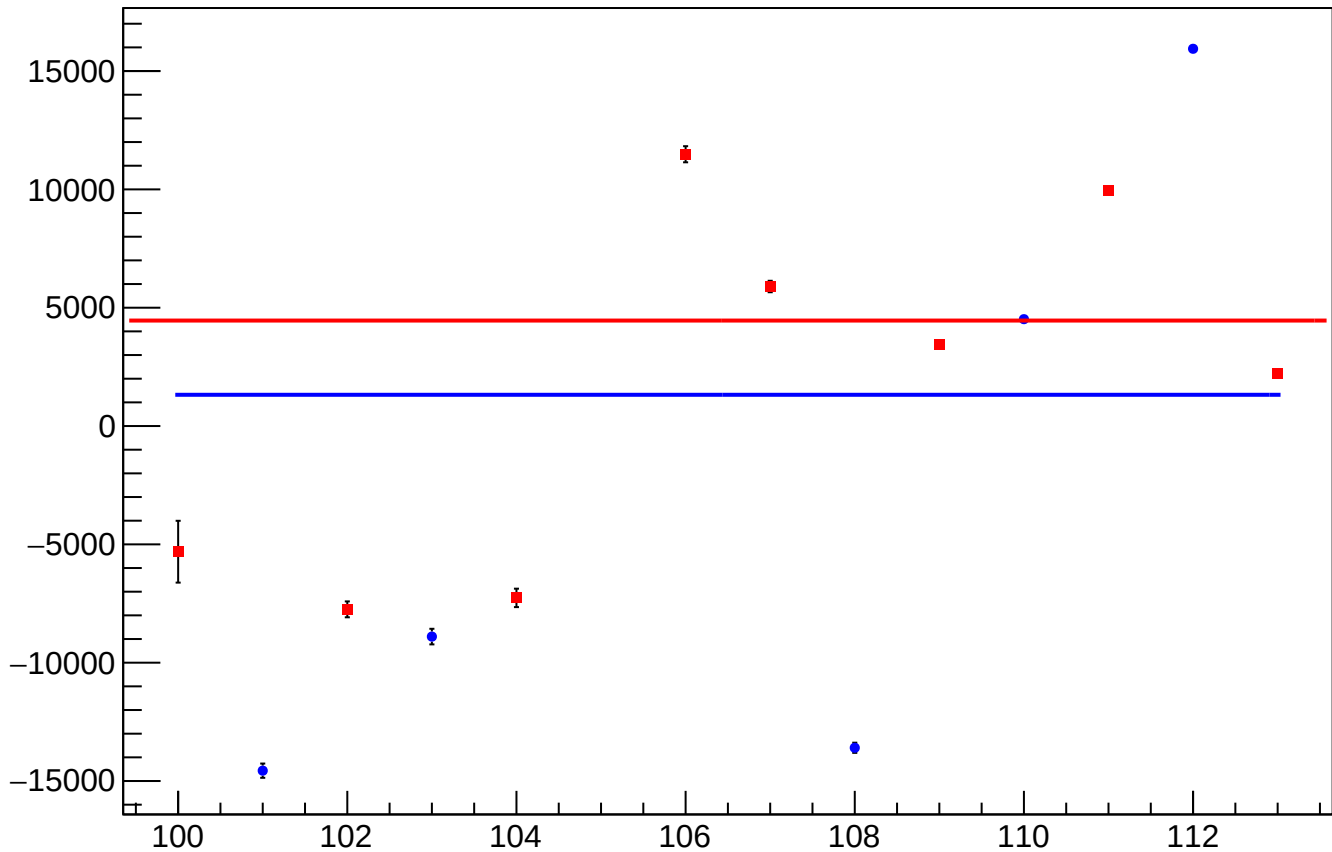
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 166.872 $\pm$ 0.053  $\chi^2$ /NDF: 1307523.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i02WS\_mean vs Slug



Right In: 1320.367+/-96.051  $\chi^2/\text{NDF}$ : 16001.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4457.061+/-79.464  $\chi^2/\text{NDF}$ : 4212.1/7

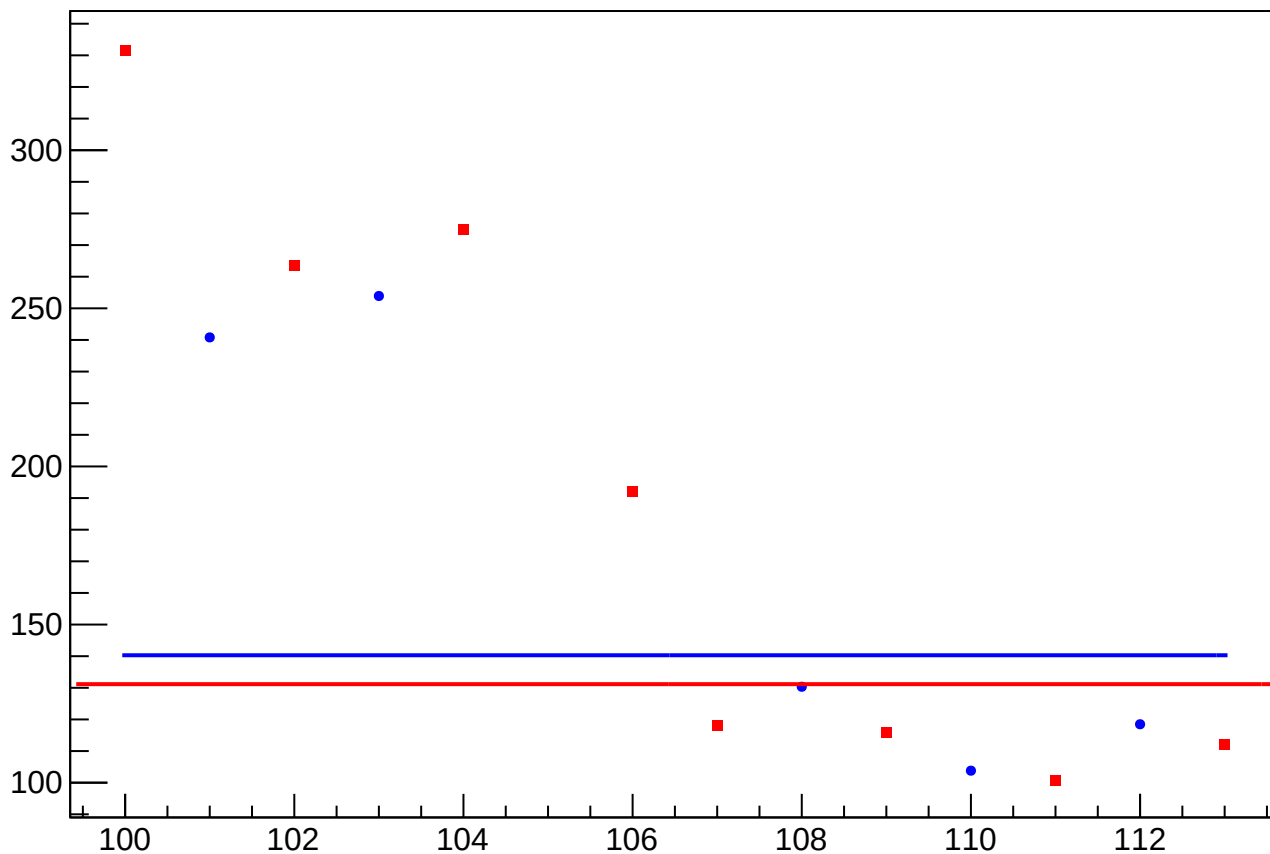
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3182.530+/-61.227  $\chi^2/\text{NDF}$ : 20846.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02WS\_rms vs Slug



Right In: 140.295+/-0.068  $\chi^2/\text{NDF}$ : 585277.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 131.153+/-0.056  $\chi^2/\text{NDF}$ : 820269.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

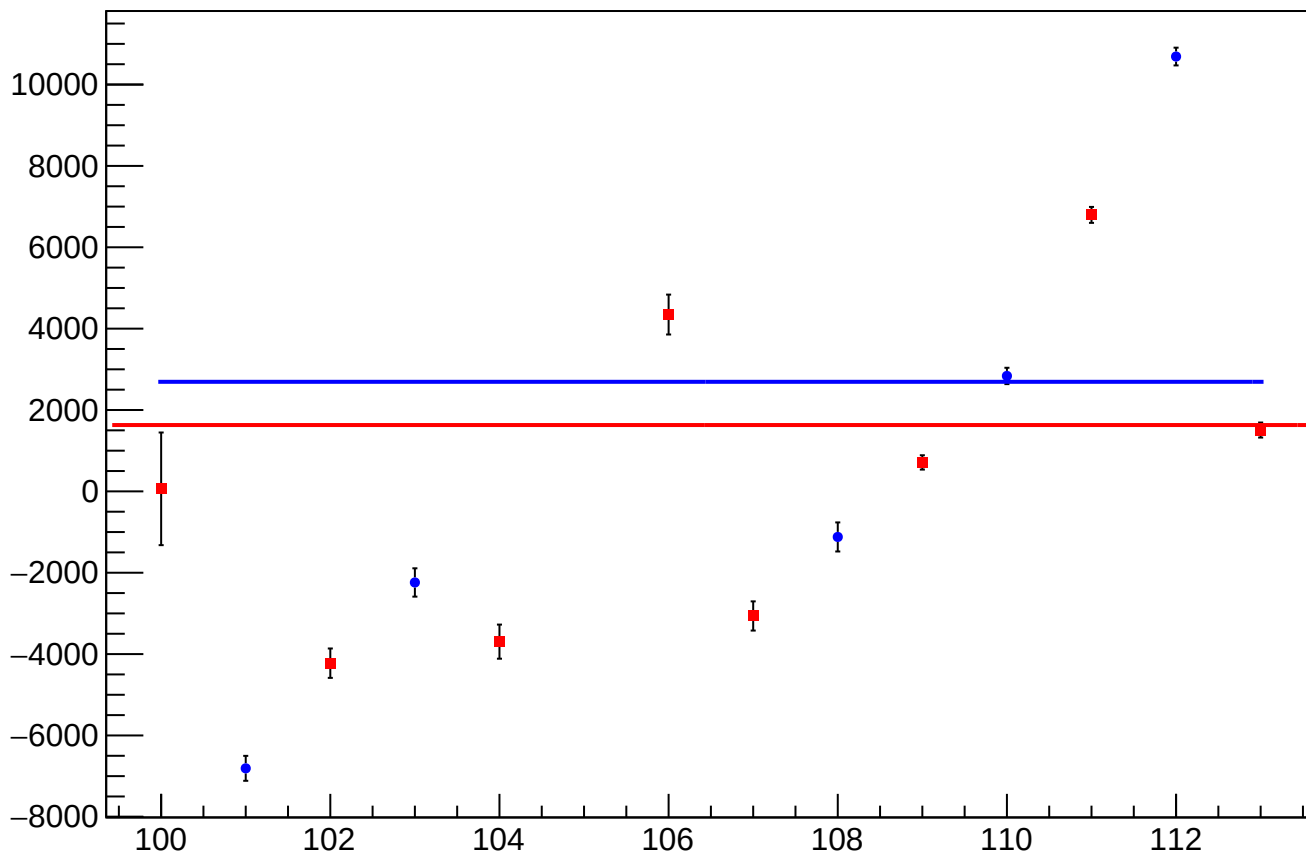
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 134.868+/-0.043  $\chi^2/\text{NDF}$ : 1416303.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0i02aWS\_mean vs Slug



Right In: 2693.147+/-117.394  $\chi^2/\text{NDF}$ : 2619.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1630.449+/-93.900  $\chi^2/\text{NDF}$ : 1349.0/7

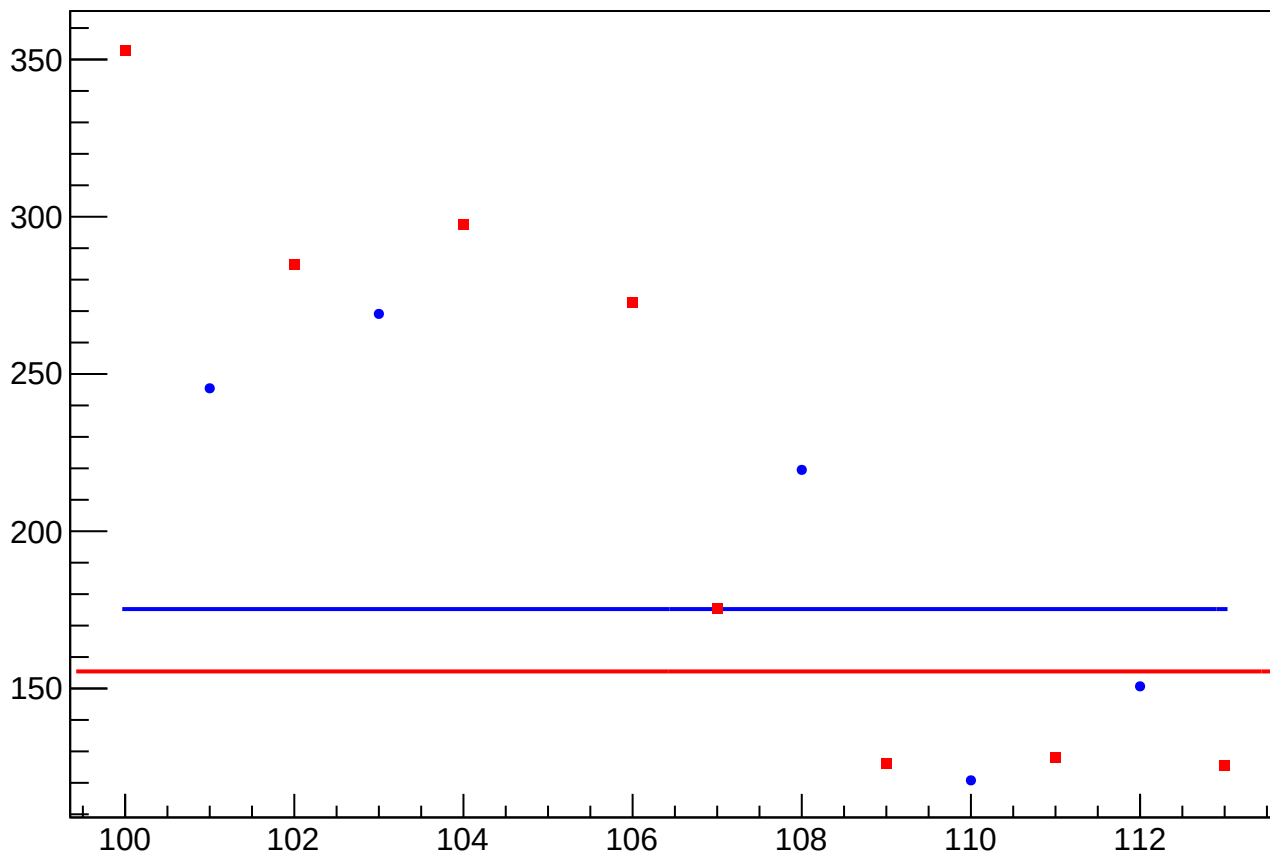
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2045.077+/-73.328  $\chi^2/\text{NDF}$ : 4018.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02aWS\_rms vs Slug



Right In: 175.249+/-0.083  $\chi^2/\text{NDF}$ : 453441.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 155.423+/-0.066  $\chi^2/\text{NDF}$ : 795751.2/7

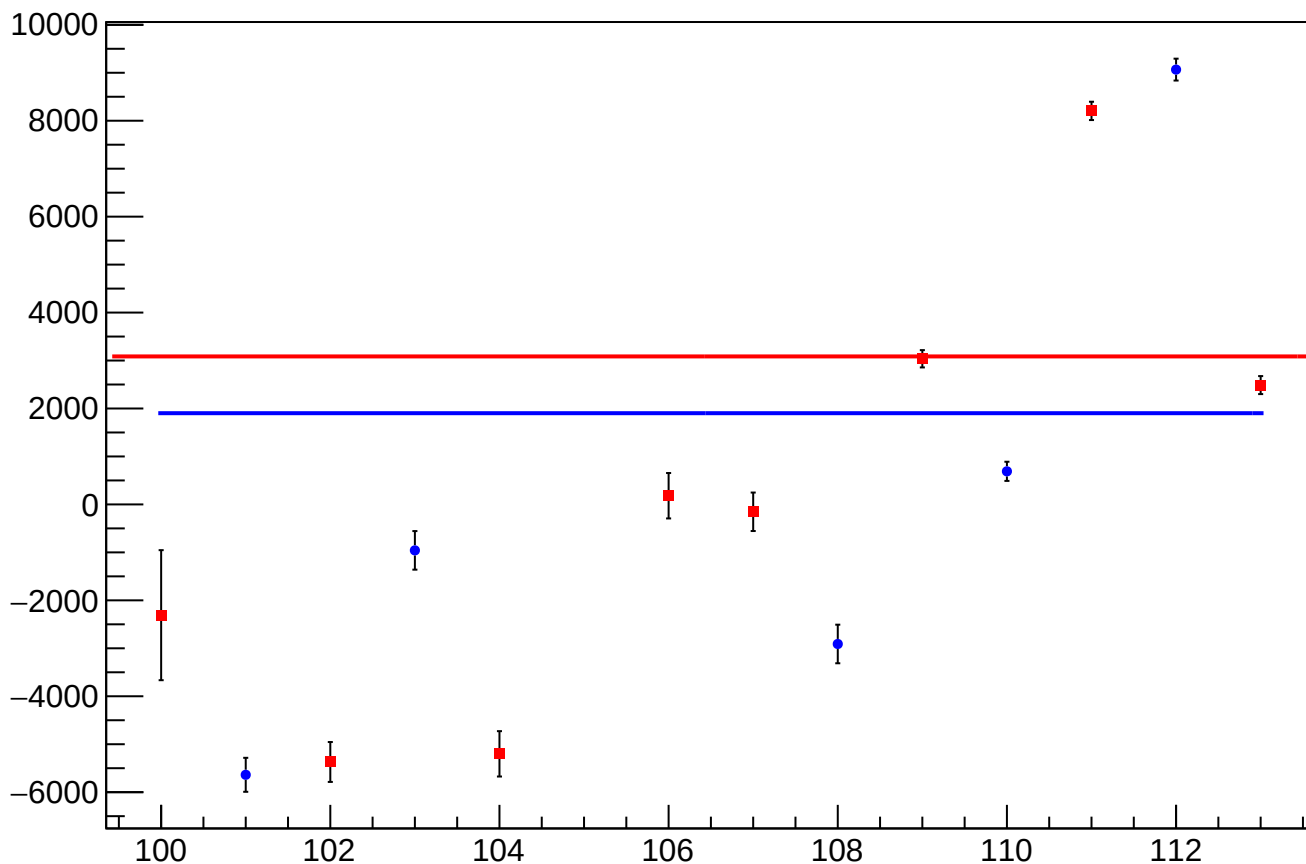
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 163.159+/-0.052  $\chi^2/\text{NDF}$ : 1283980.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i05WS\_mean vs Slug



Right In: 1902.037+/-124.388  $\chi^2/\text{NDF}$ : 1671.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3085.648+/-96.212  $\chi^2/\text{NDF}$ : 1567.9/7

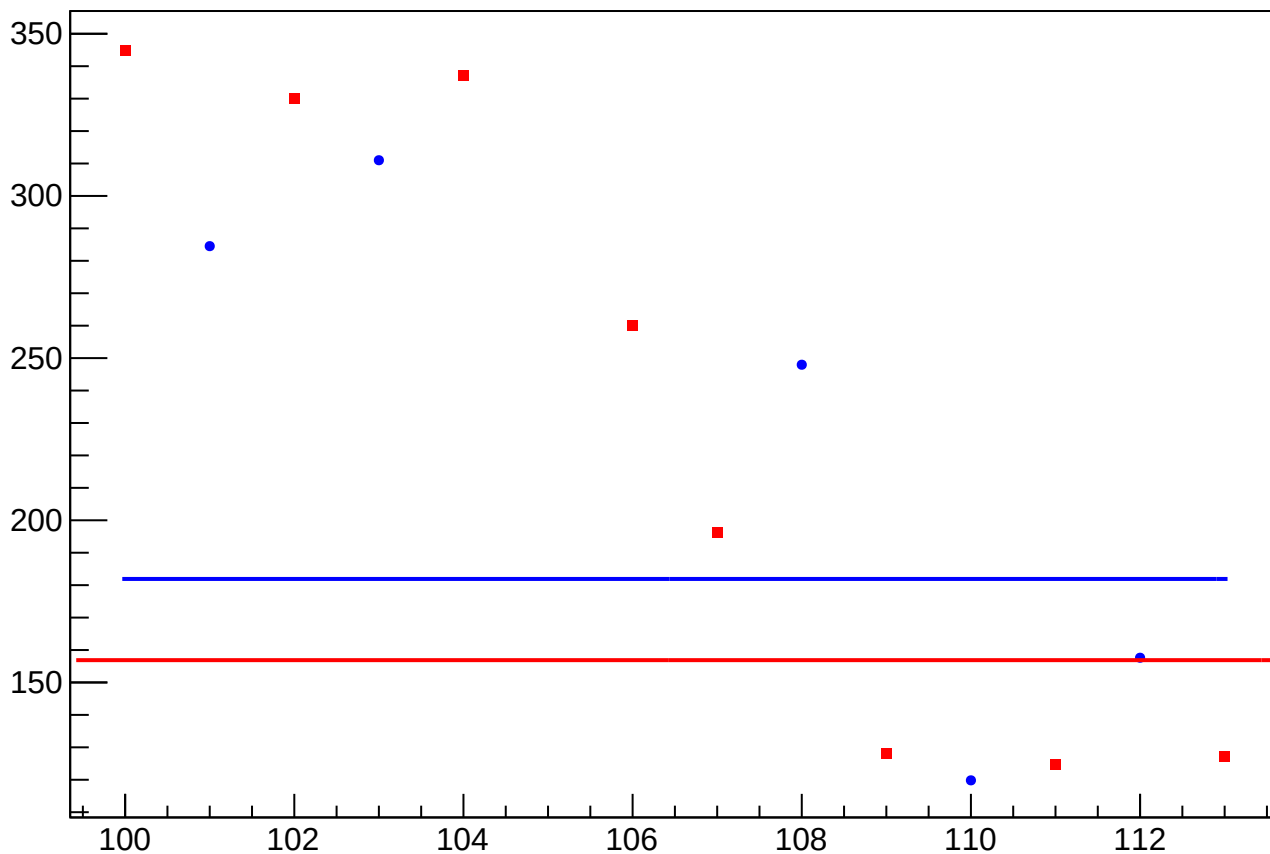
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2642.594+/-76.103  $\chi^2/\text{NDF}$ : 3295.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i05WS\_rms vs Slug



Right In: 181.914 $\pm$ 0.088  $\chi^2$ /NDF: 643638.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 156.877 $\pm$ 0.068  $\chi^2$ /NDF: 947473.8/7

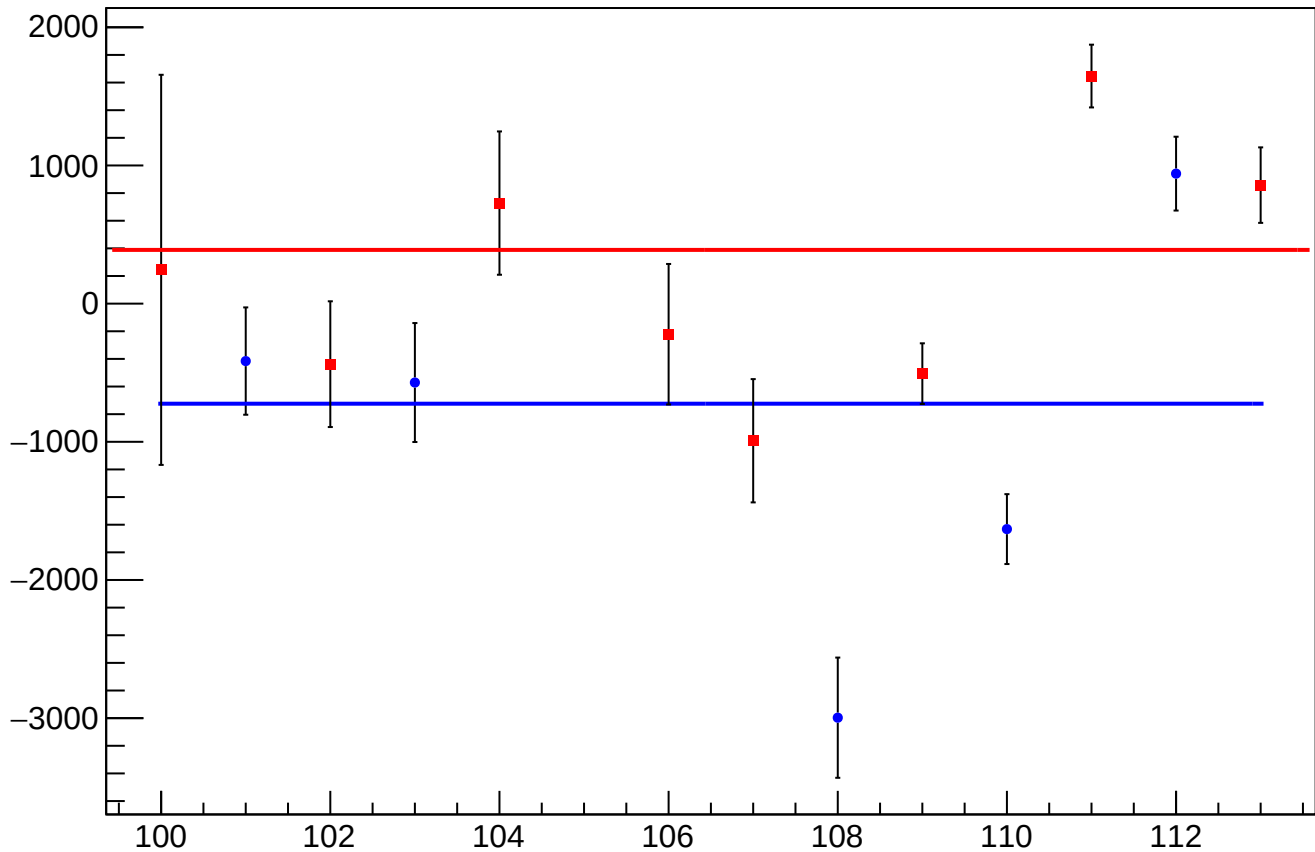
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 166.249 $\pm$ 0.054  $\chi^2$ /NDF: 1641808.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# 



Right In: -724.235+/-145.937  $\chi^2/\text{NDF}$ : 79.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 388.862+/-118.301  $\chi^2/\text{NDF}$ : 65.0/7

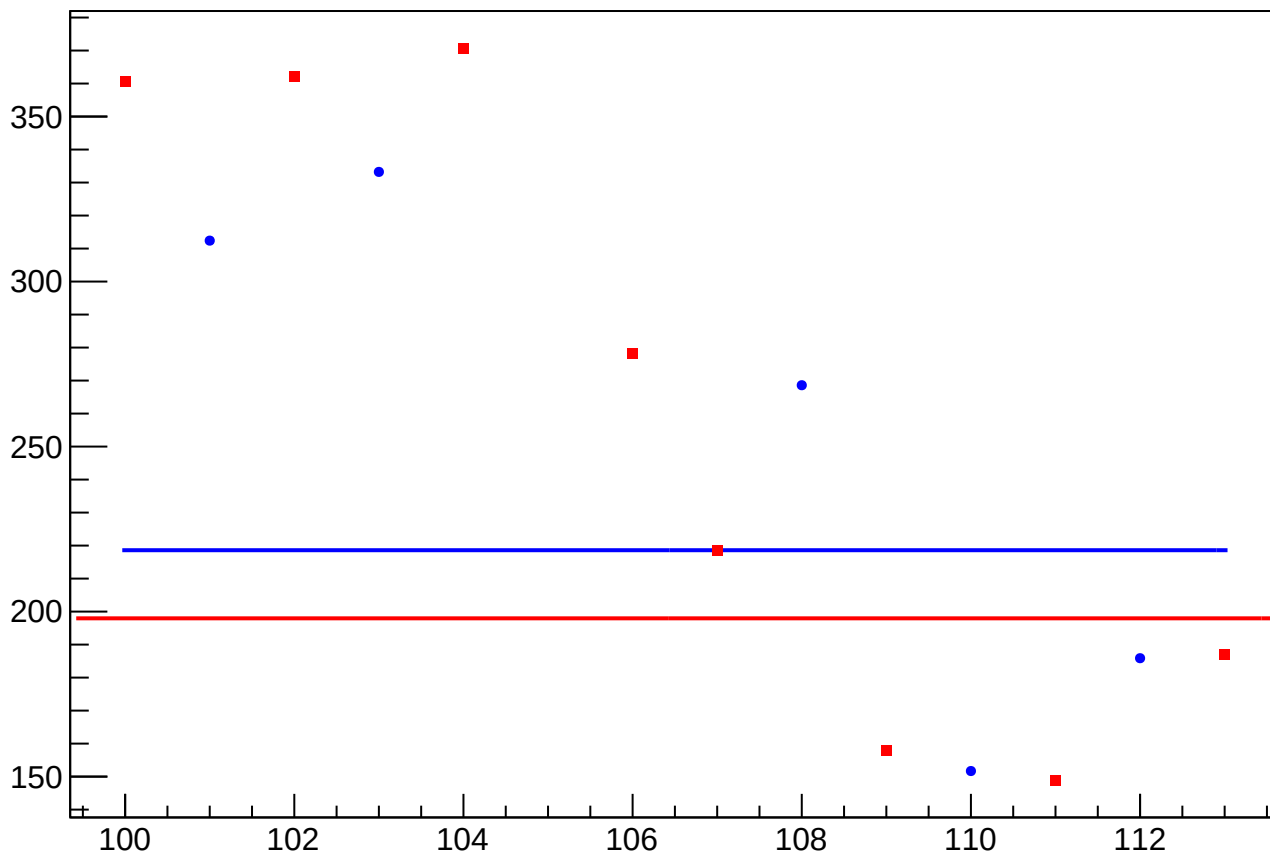
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -52.532+/-91.899  $\chi^2/\text{NDF}$ : 179.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i07WS\_rms vs Slug



Right In: 218.598 $\pm$ 0.103  $\chi^2$ /NDF: 454877.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 197.957 $\pm$ 0.084  $\chi^2$ /NDF: 724670.6/7

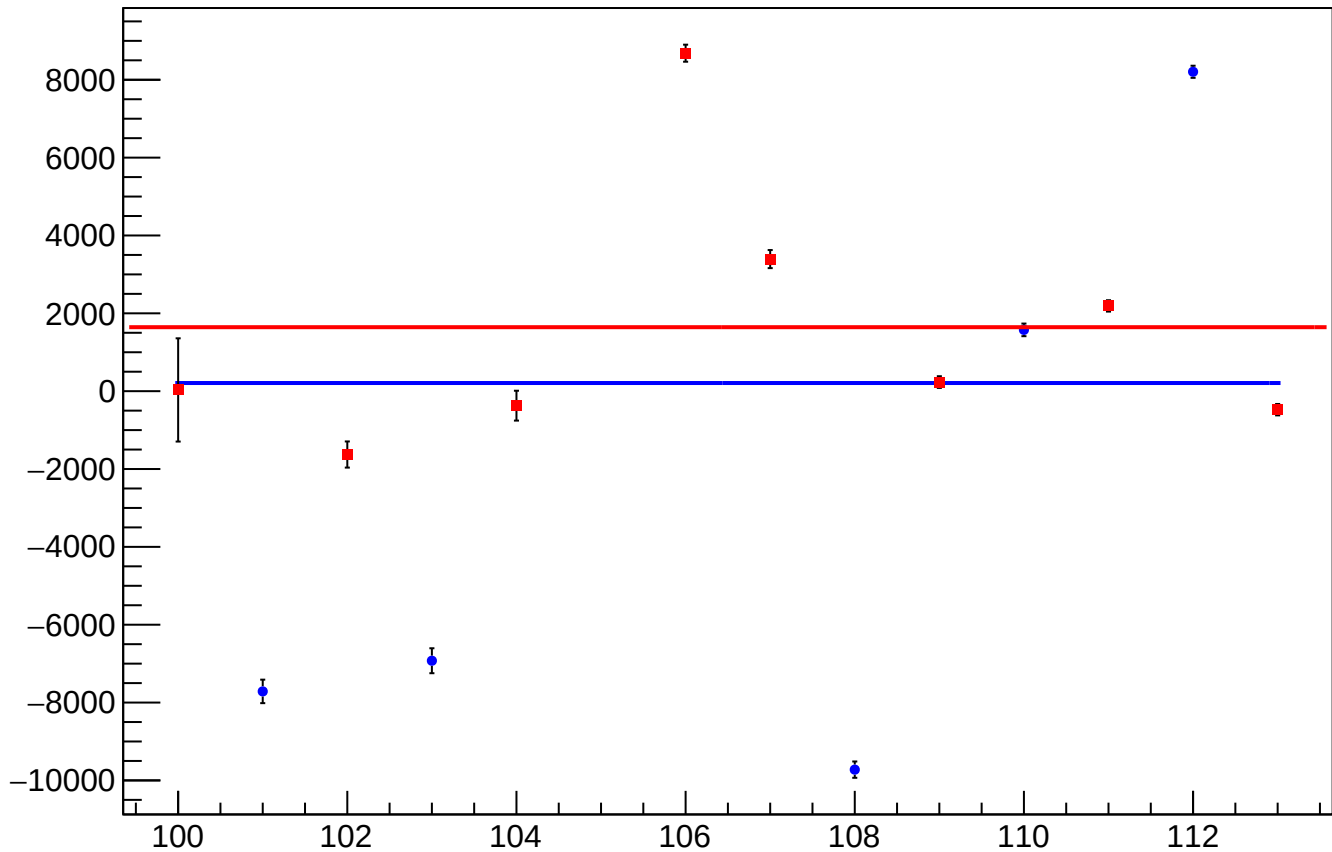
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 206.142 $\pm$ 0.065  $\chi^2$ /NDF: 1203693.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i02WS\_mean vs Slug



Right In: 209.495 $\pm$ 90.219  $\chi^2$ /NDF: 6143.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1643.804 $\pm$ 71.856  $\chi^2$ /NDF: 1526.8/7

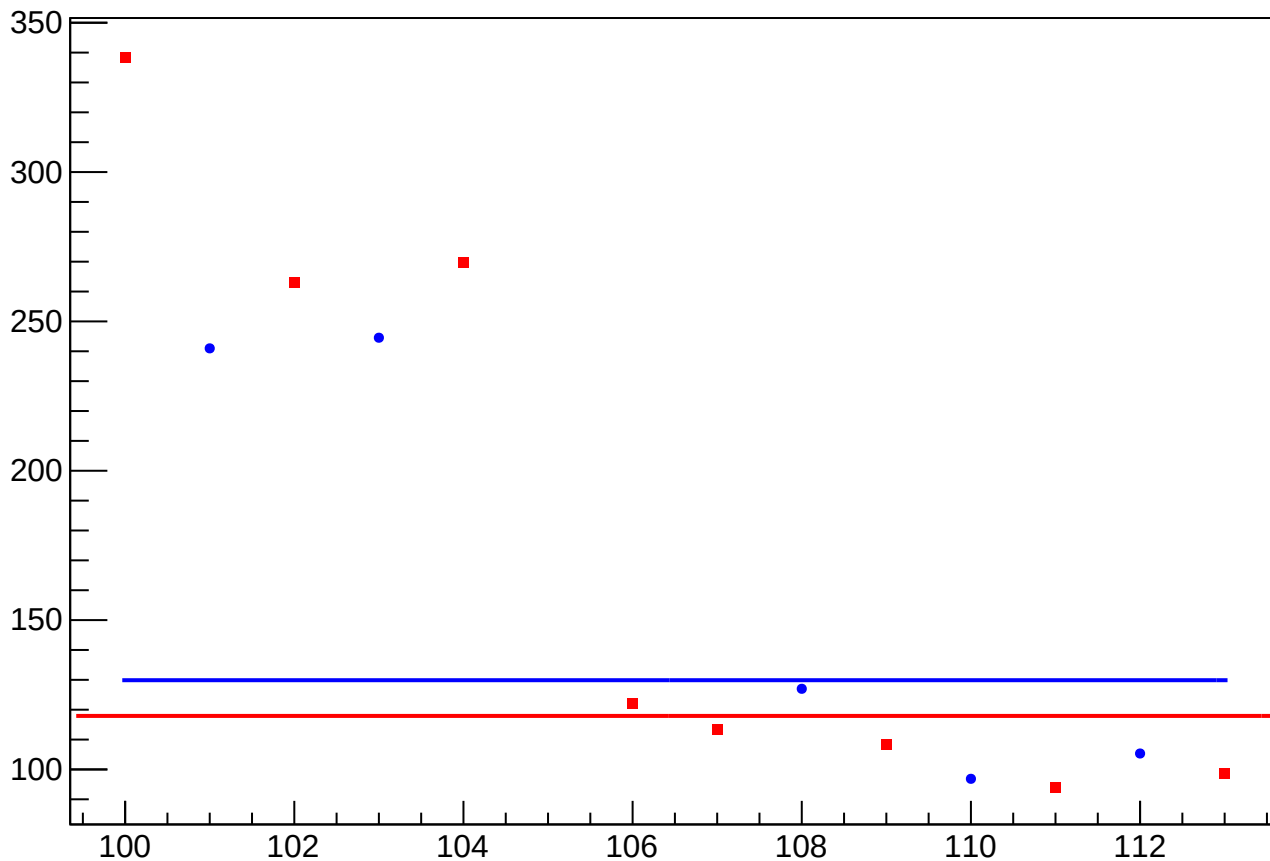
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1087.100 $\pm$ 56.207  $\chi^2$ /NDF: 7824.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i02WS\_rms vs Slug



Right In: 129.876 $\pm$ 0.064  $\chi^2$ /NDF: 660152.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 117.920 $\pm$ 0.051  $\chi^2$ /NDF: 841448.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

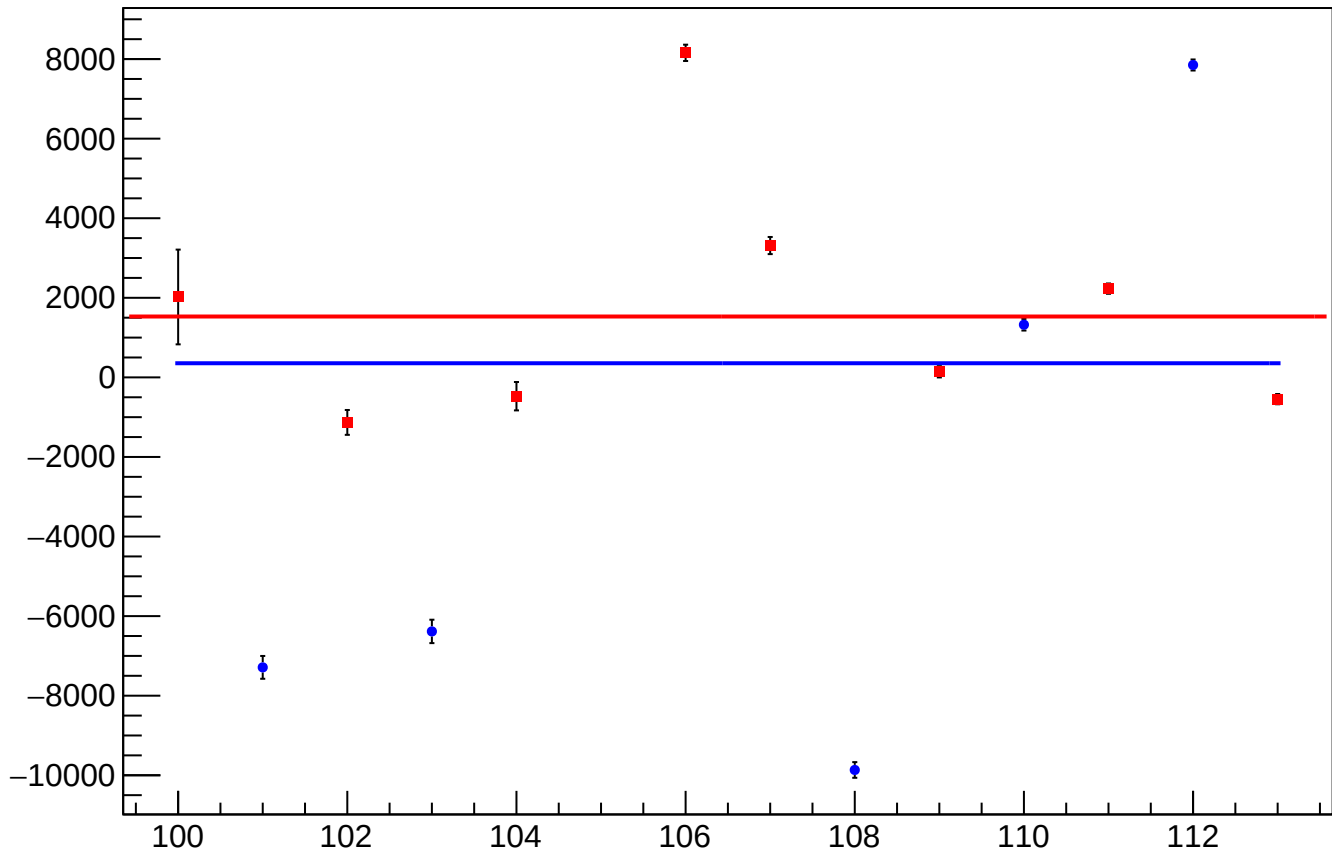
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 122.560 $\pm$ 0.040  $\chi^2$ /NDF: 1523093.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bpm2i01WS\_mean vs Slug



Right In: 355.237+/-82.191  $\chi^2/\text{NDF}$ : 6888.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1529.821+/-65.319  $\chi^2/\text{NDF}$ : 1601.9/7

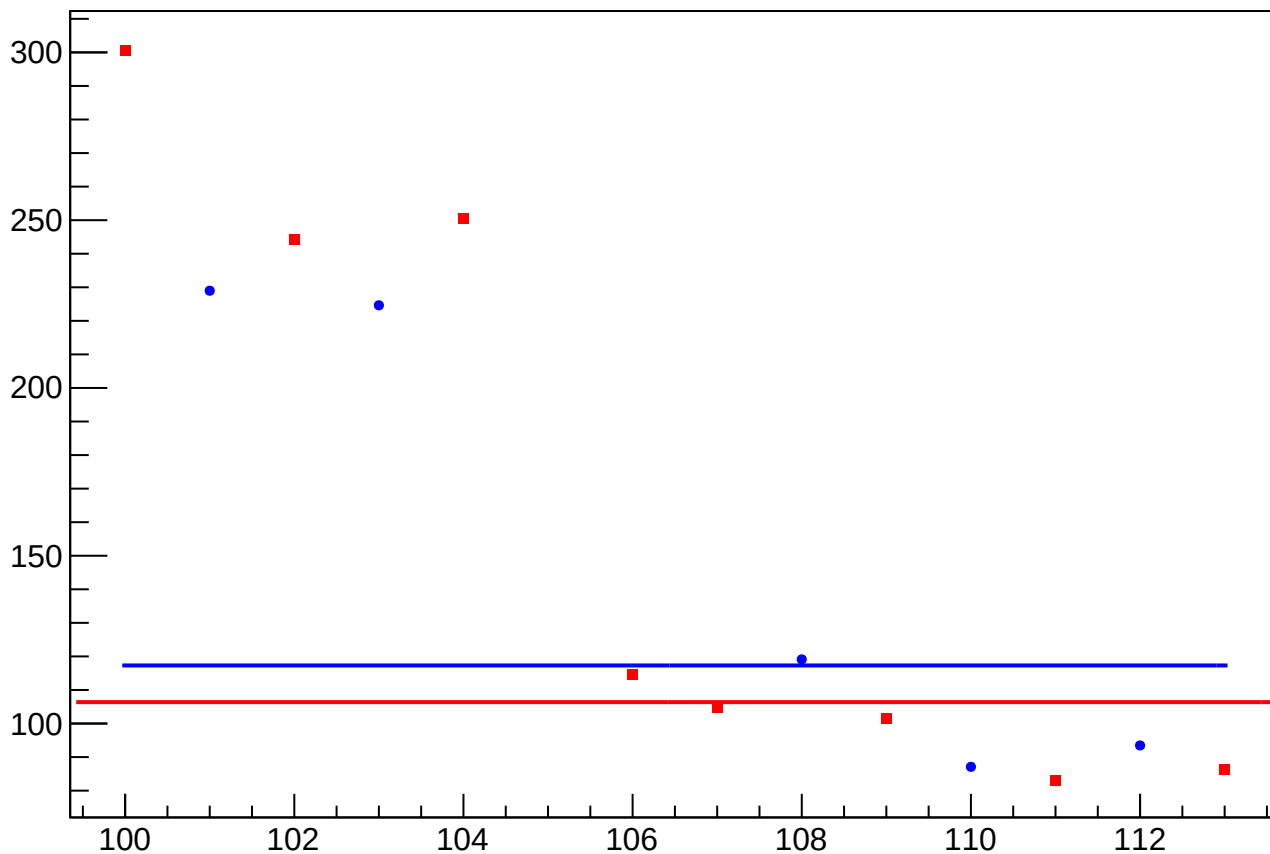
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1075.143+/-51.137  $\chi^2/\text{NDF}$ : 8615.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm2i01WS\_rms vs Slug



Right In: 117.305 $\pm$ 0.058  $\chi^2$ /NDF: 714131.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 106.376 $\pm$ 0.046  $\chi^2$ /NDF: 888418.1/7

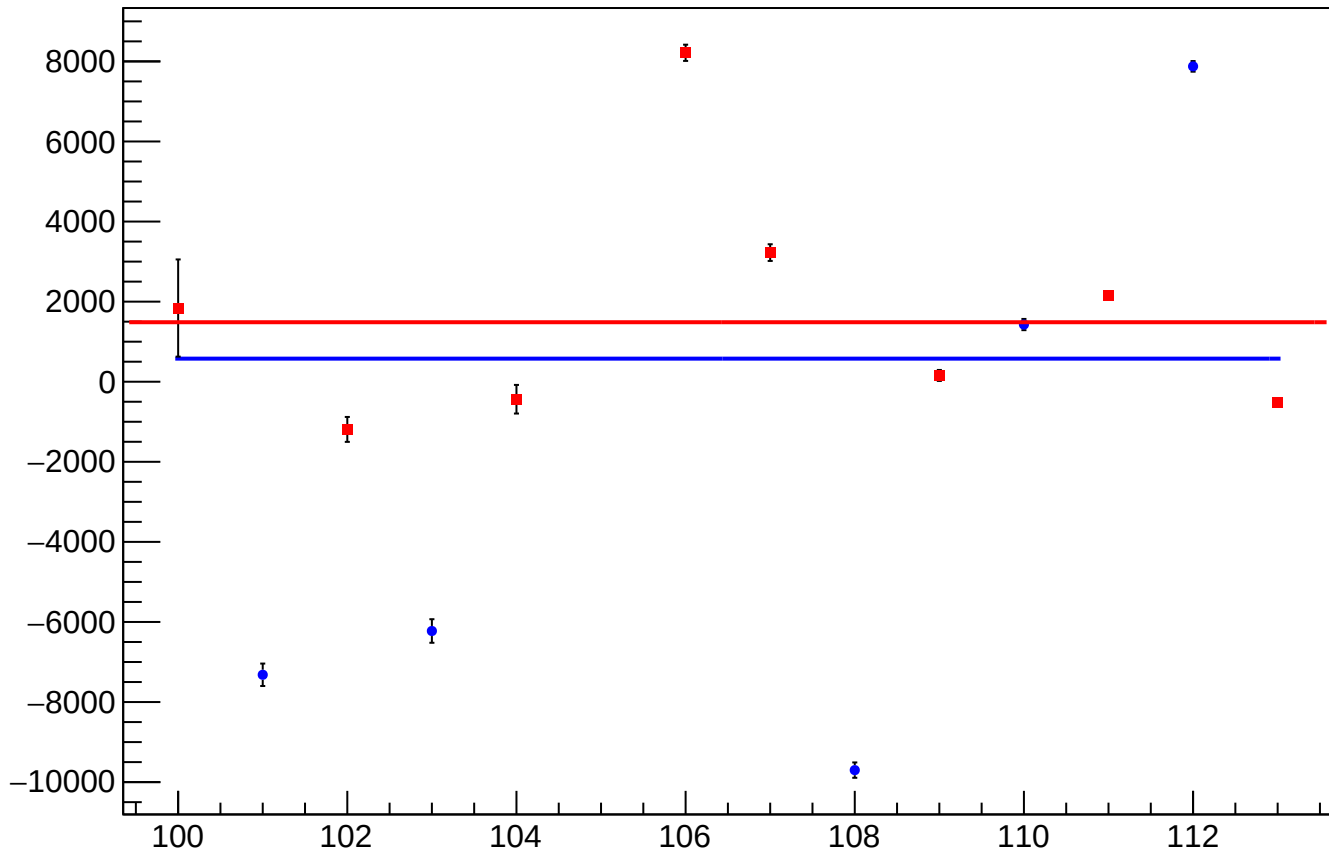
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.607 $\pm$ 0.036  $\chi^2$ /NDF: 1624225.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm2i02WS\_mean vs Slug



Right In: 576.520+/-79.241  $\chi^2/\text{NDF}$ : 7262.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1485.909+/-62.441  $\chi^2/\text{NDF}$ : 1672.6/7

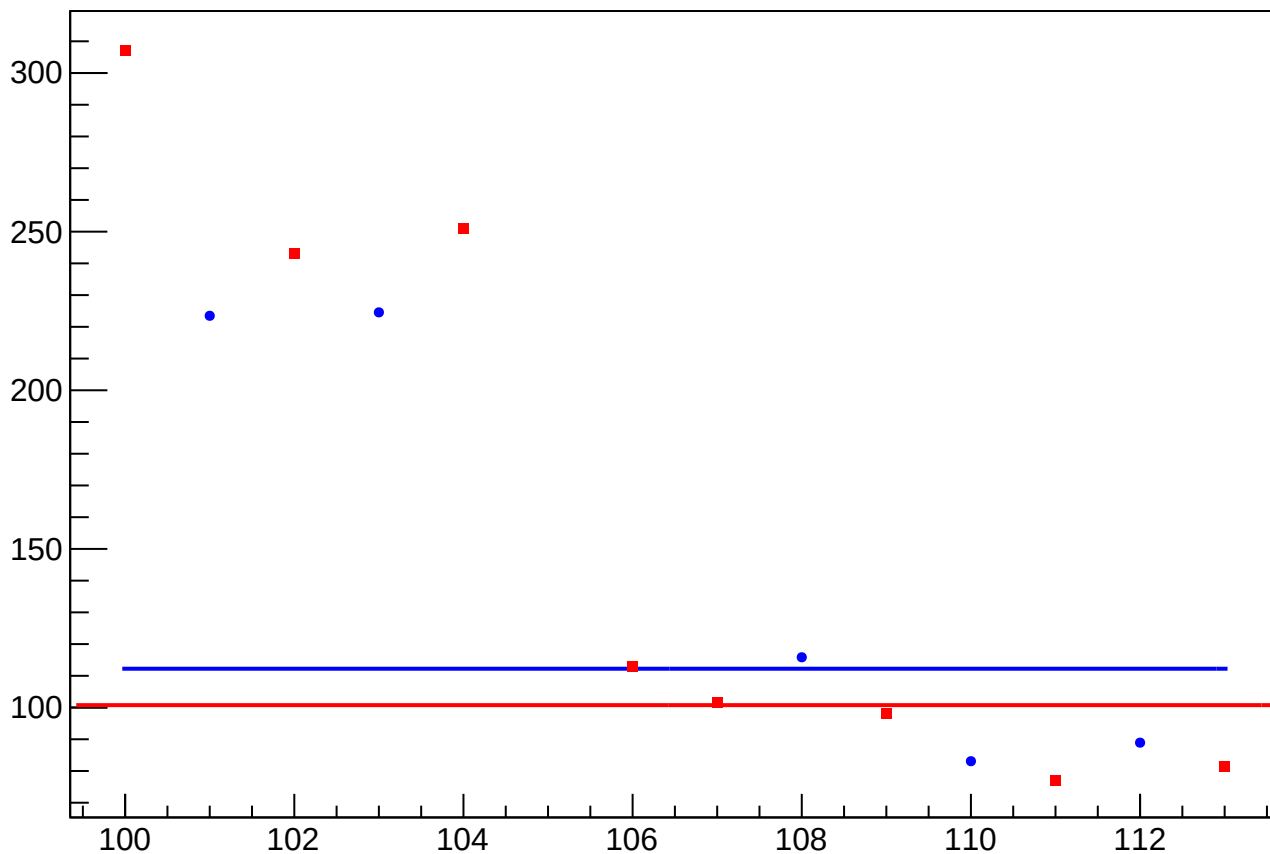
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1137.549+/-49.044  $\chi^2/\text{NDF}$ : 9016.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm2i02WS\_rms vs Slug



Right In: 112.237 $\pm$ 0.056  $\chi^2$ /NDF: 755382.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 100.758 $\pm$ 0.044  $\chi^2$ /NDF: 966955.6/7

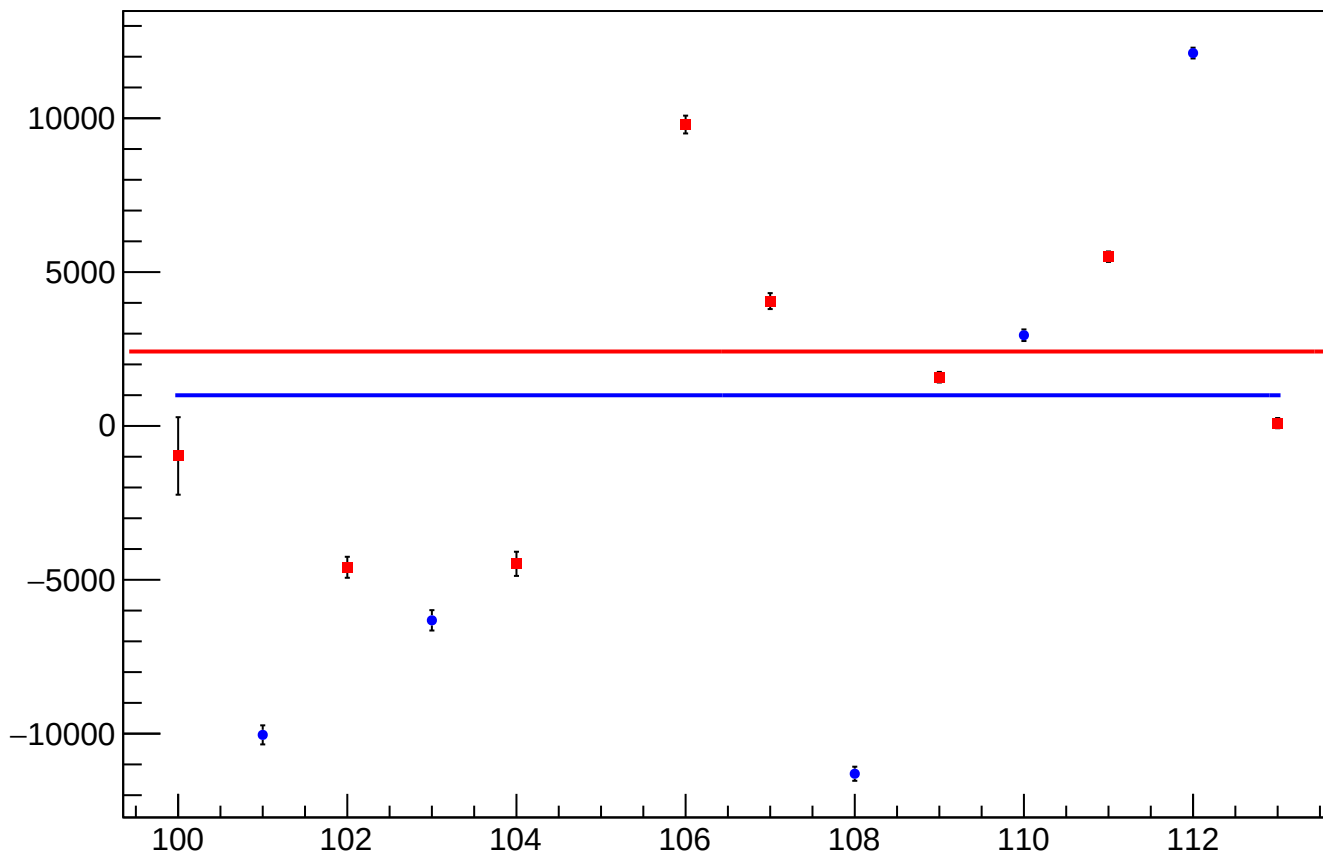
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 105.155 $\pm$ 0.035  $\chi^2$ /NDF: 1748230.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i01WS\_mean vs Slug



Right In: 997.009+/-100.385  $\chi^2/\text{NDF}$ : 8758.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2419.333+/-82.360  $\chi^2/\text{NDF}$ : 1978.9/7

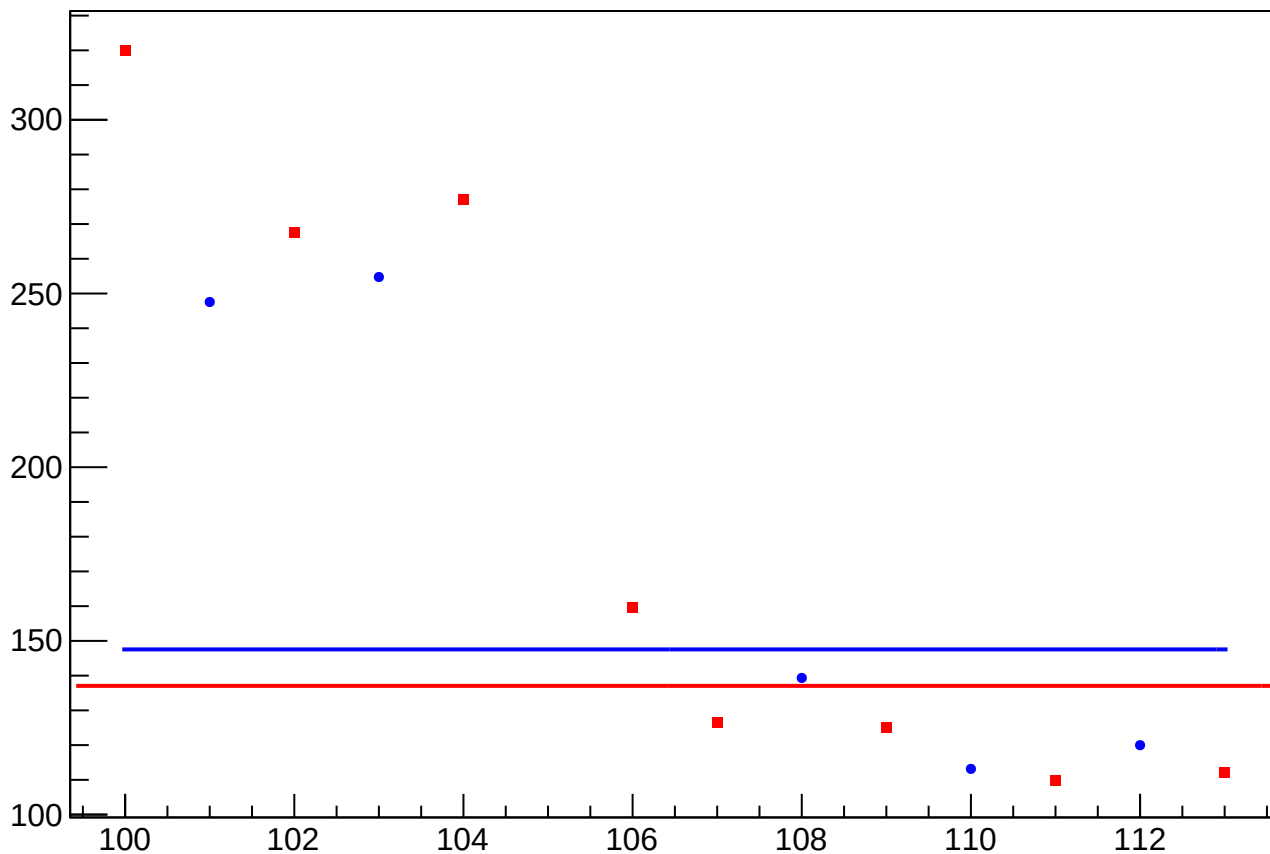
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1847.109+/-63.672  $\chi^2/\text{NDF}$ : 10857.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01WS\_rms vs Slug



Right In: 147.550 $\pm$ 0.071  $\chi^2$ /NDF: 536961.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 137.056 $\pm$ 0.058  $\chi^2$ /NDF: 709542.0/7

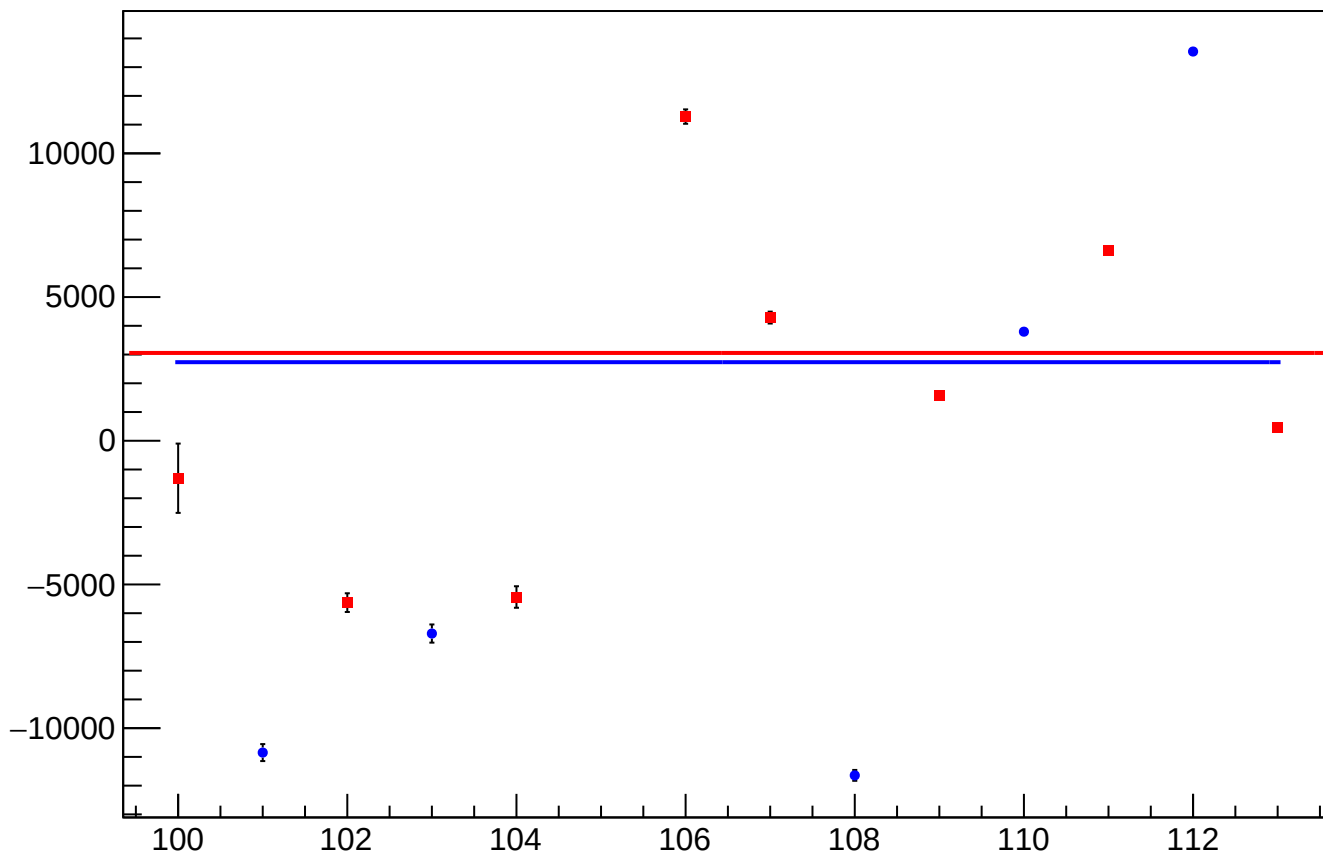
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 141.278 $\pm$ 0.045  $\chi^2$ /NDF: 1259568.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i01aWS\_mean vs Slug



Right In: 2734.263+/-80.252  $\chi^2/\text{NDF}$ : 15336.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 3055.432+/-64.237  $\chi^2/\text{NDF}$ : 3743.3/7

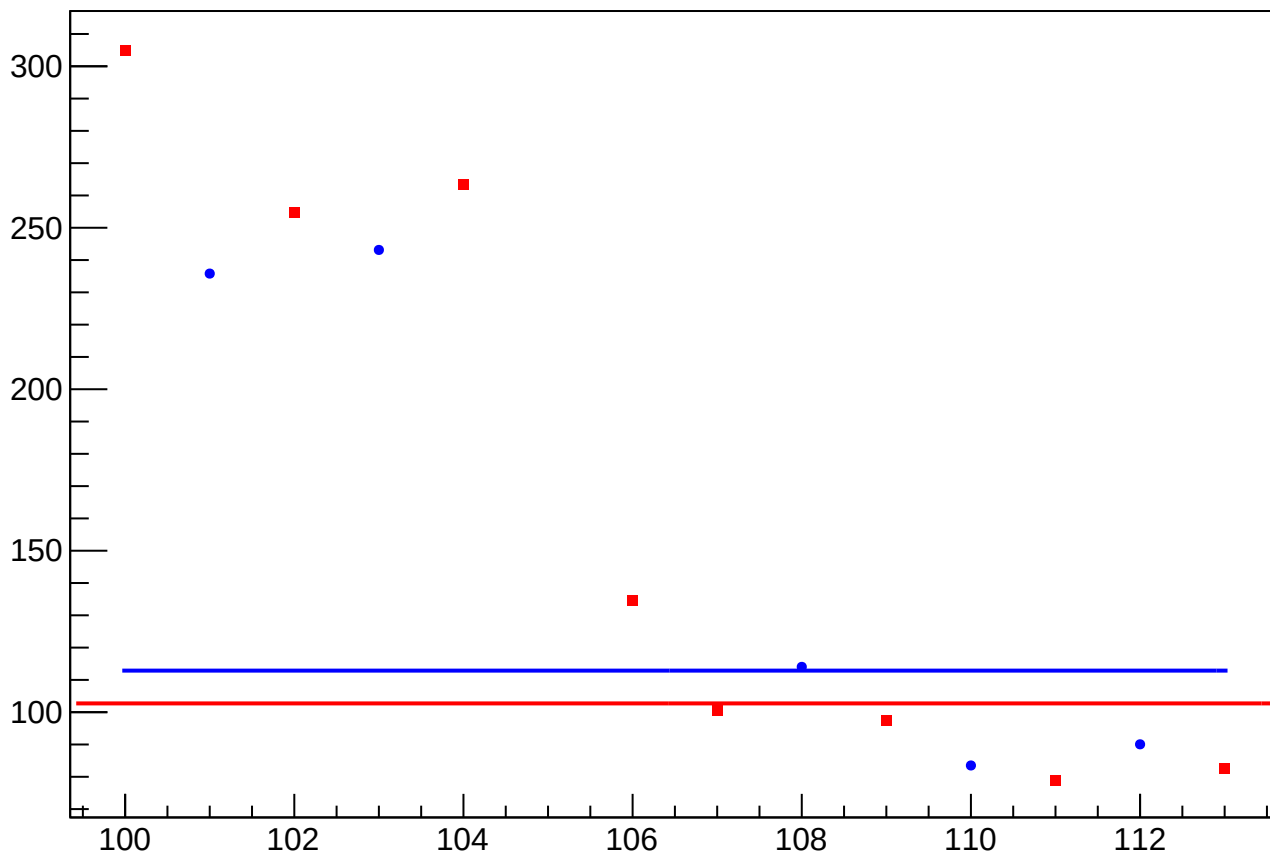
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2930.014+/-50.150  $\chi^2/\text{NDF}$ : 19089.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01aWS\_rms vs Slug



Right In: 112.876+/-0.057  $\chi^2/\text{NDF}$ : 830333.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 102.722+/-0.045  $\chi^2/\text{NDF}$ : 1024590.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

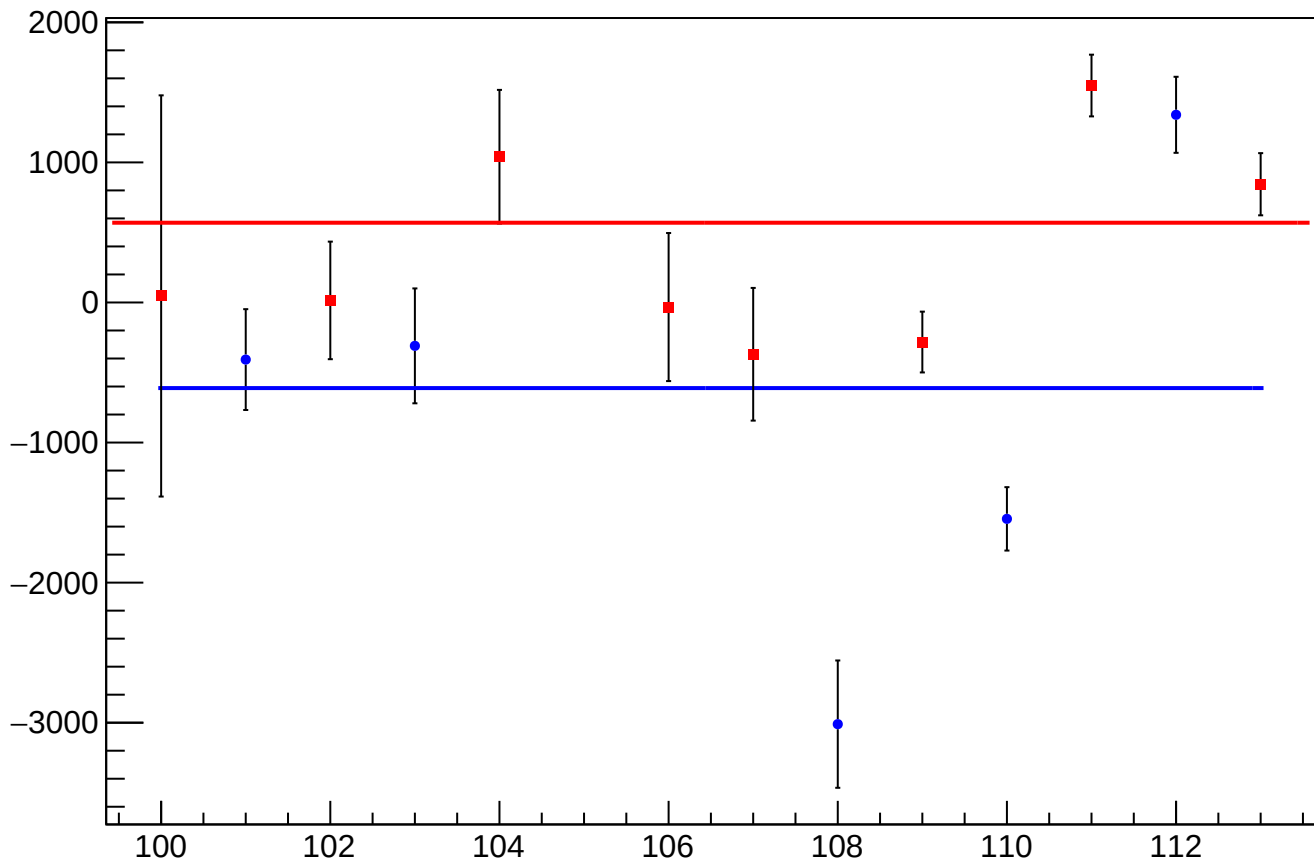
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 106.687+/-0.035  $\chi^2/\text{NDF}$ : 1874437.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0l01WS\_mean vs Slug



Right In:  $-611.122 \pm 139.209$   $\chi^2/\text{NDF}$ : 97.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $569.339 \pm 111.295$   $\chi^2/\text{NDF}$ : 44.8/7

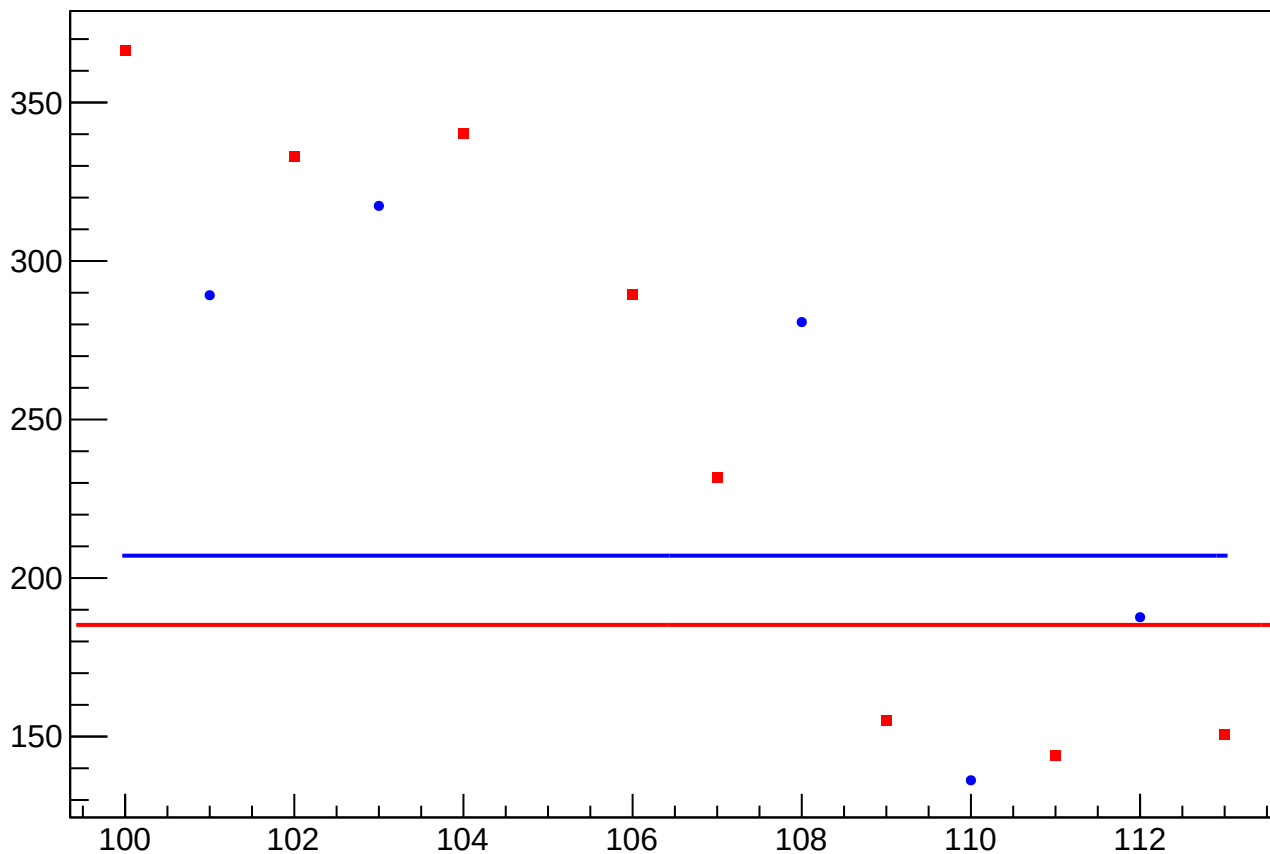
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $109.034 \pm 86.929$   $\chi^2/\text{NDF}$ : 186.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l01WS\_rms vs Slug



Right In: 207.064 $\pm$ 0.098  $\chi^2$ /NDF: 507714.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 185.224 $\pm$ 0.079  $\chi^2$ /NDF: 744730.6/7

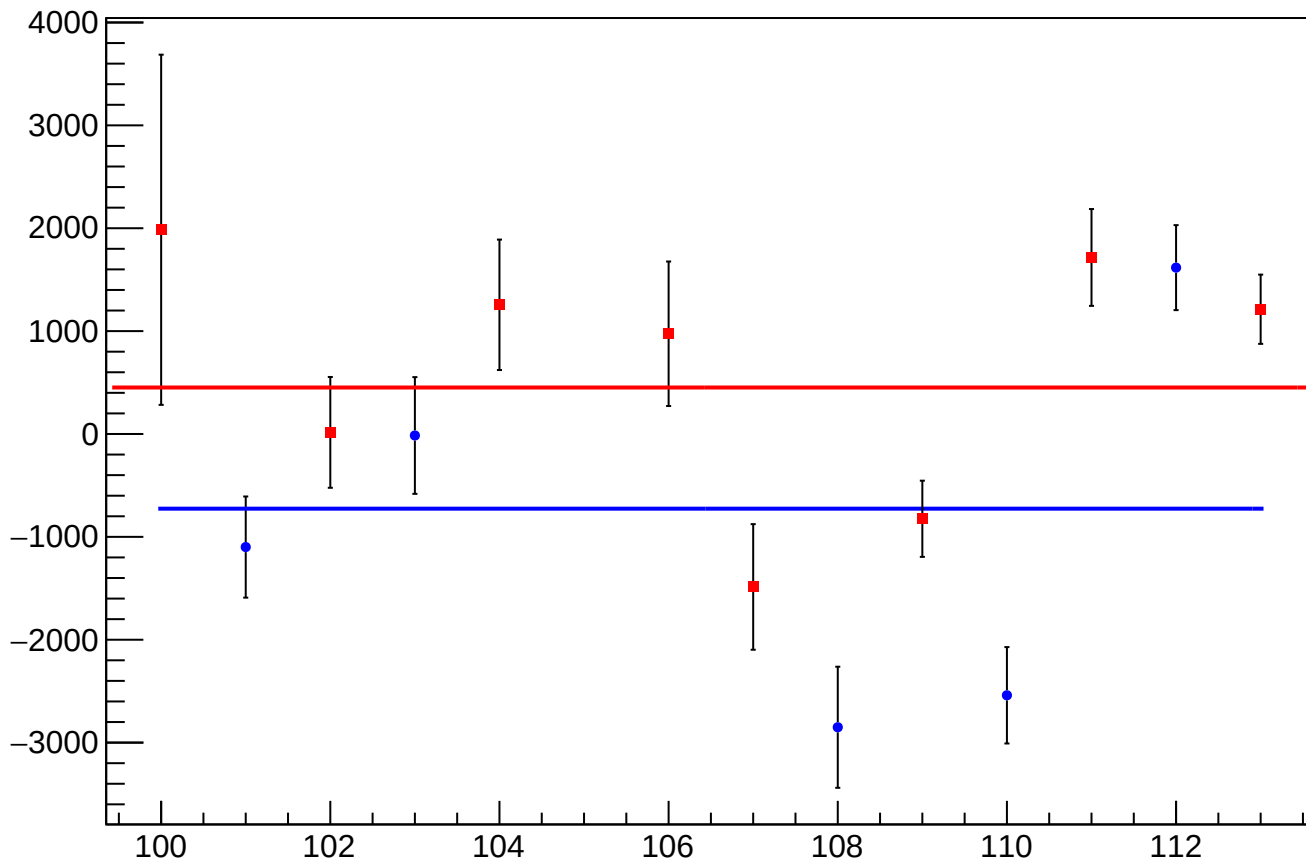
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 193.740 $\pm$ 0.061  $\chi^2$ /NDF: 1282477.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l02WS\_mean vs Slug



Right In:  $-725.989 \pm 220.601$   $\chi^2/\text{NDF}$ : 62.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $451.864 \pm 177.816$   $\chi^2/\text{NDF}$ : 37.9/7

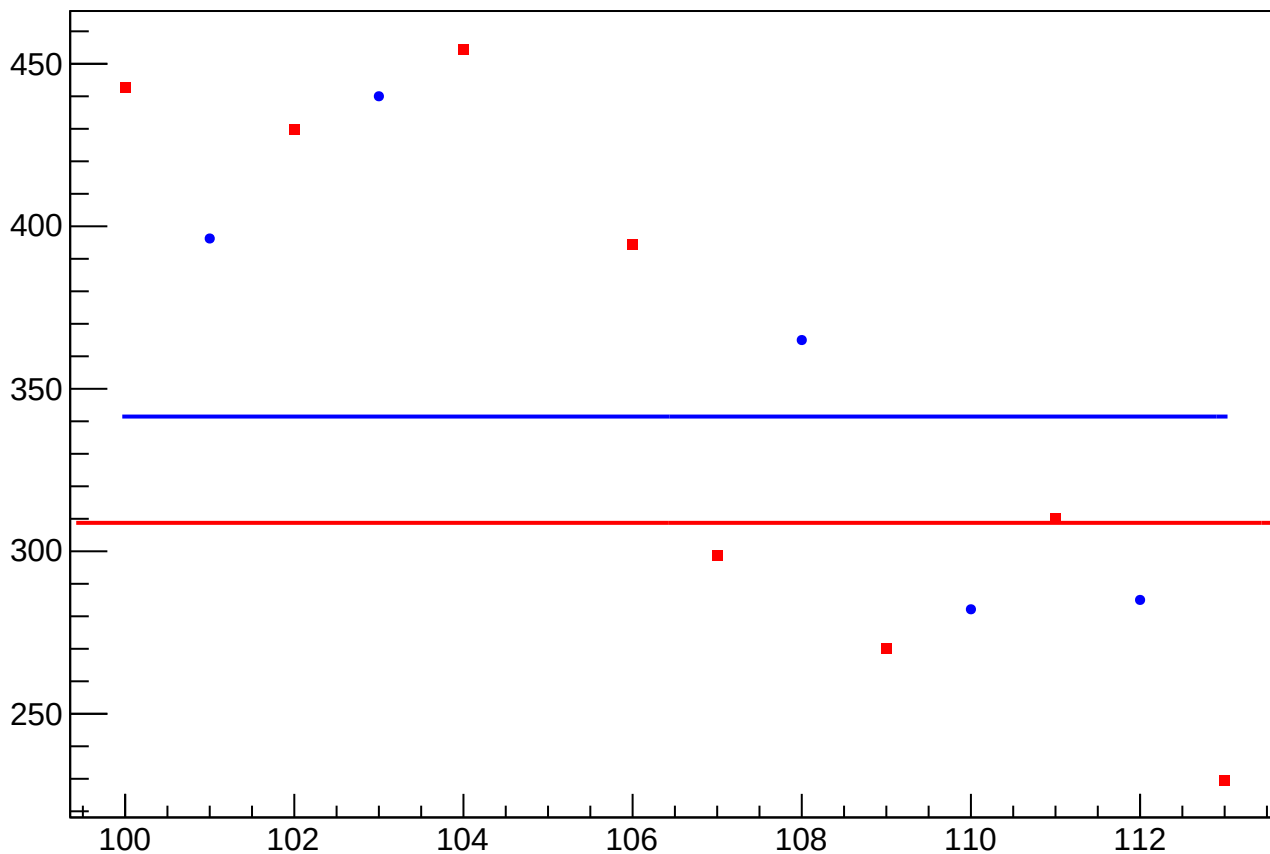
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-12.018 \pm 138.441$   $\chi^2/\text{NDF}$ : 117.5/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l02WS\_rms vs Slug



Right In: 341.462 $\pm$ 0.156  $\chi^2$ /NDF: 157755.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 308.755 $\pm$ 0.126  $\chi^2$ /NDF: 381737.5/7

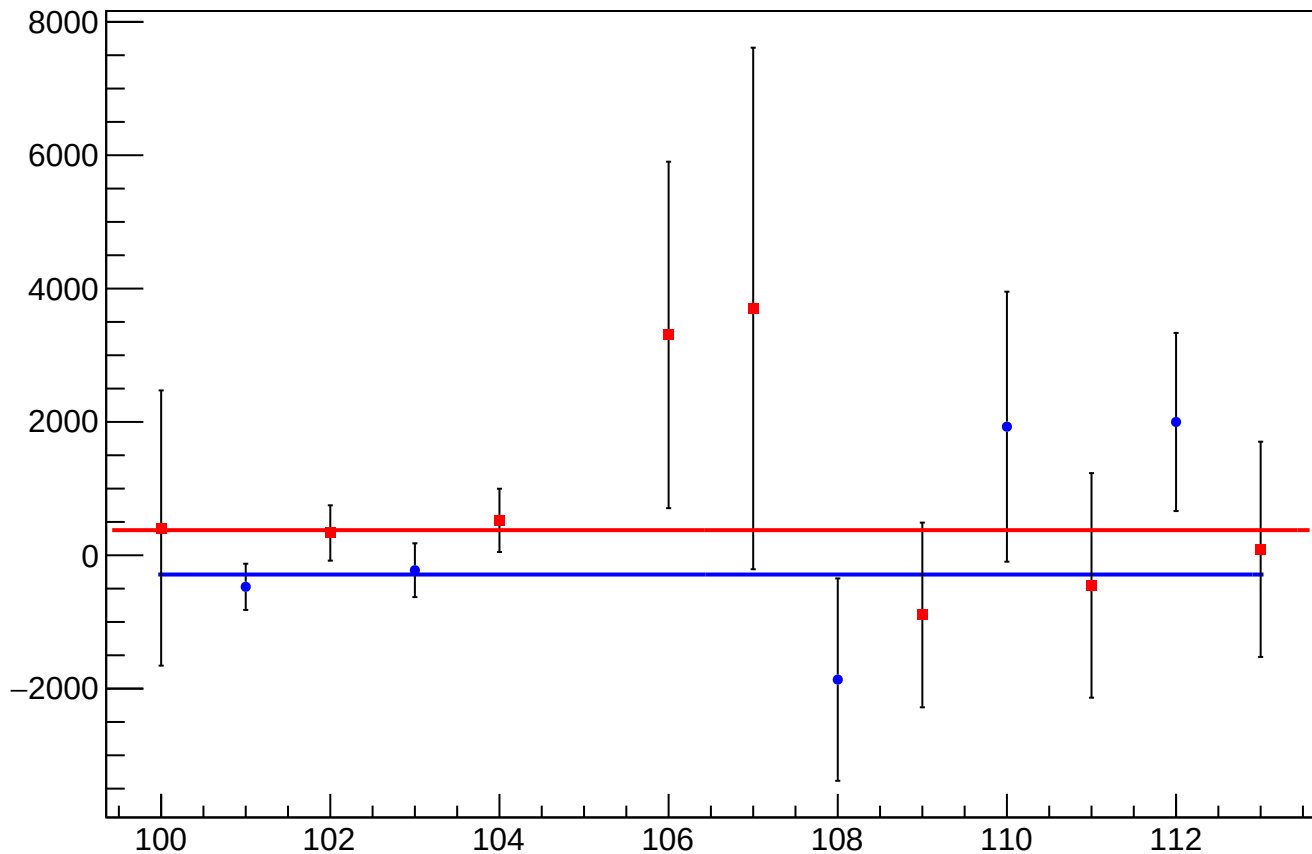
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 321.636 $\pm$ 0.098  $\chi^2$ /NDF: 566142.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l03WS\_mean vs Slug



Right In: -288.679+/-252.224  $\chi^2/\text{NDF}$ : 5.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 376.890+/-289.201  $\chi^2/\text{NDF}$ : 3.2/7

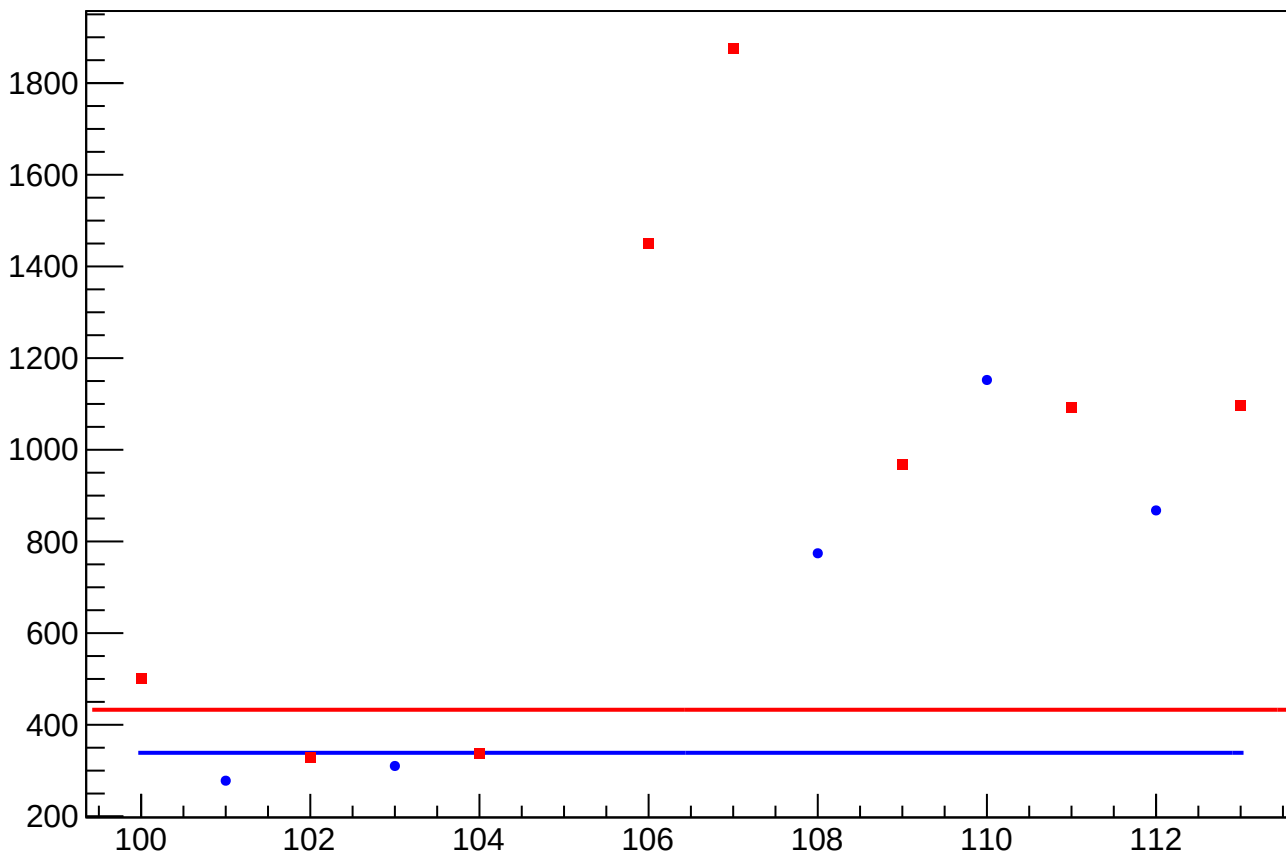
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.139+/-190.087  $\chi^2/\text{NDF}$ : 11.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l03WS\_rms vs Slug



Right In: 338.886+/-0.178  $\chi^2/\text{NDF}$ : 872618.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 432.807+/-0.204  $\chi^2/\text{NDF}$ : 1727385.6/7

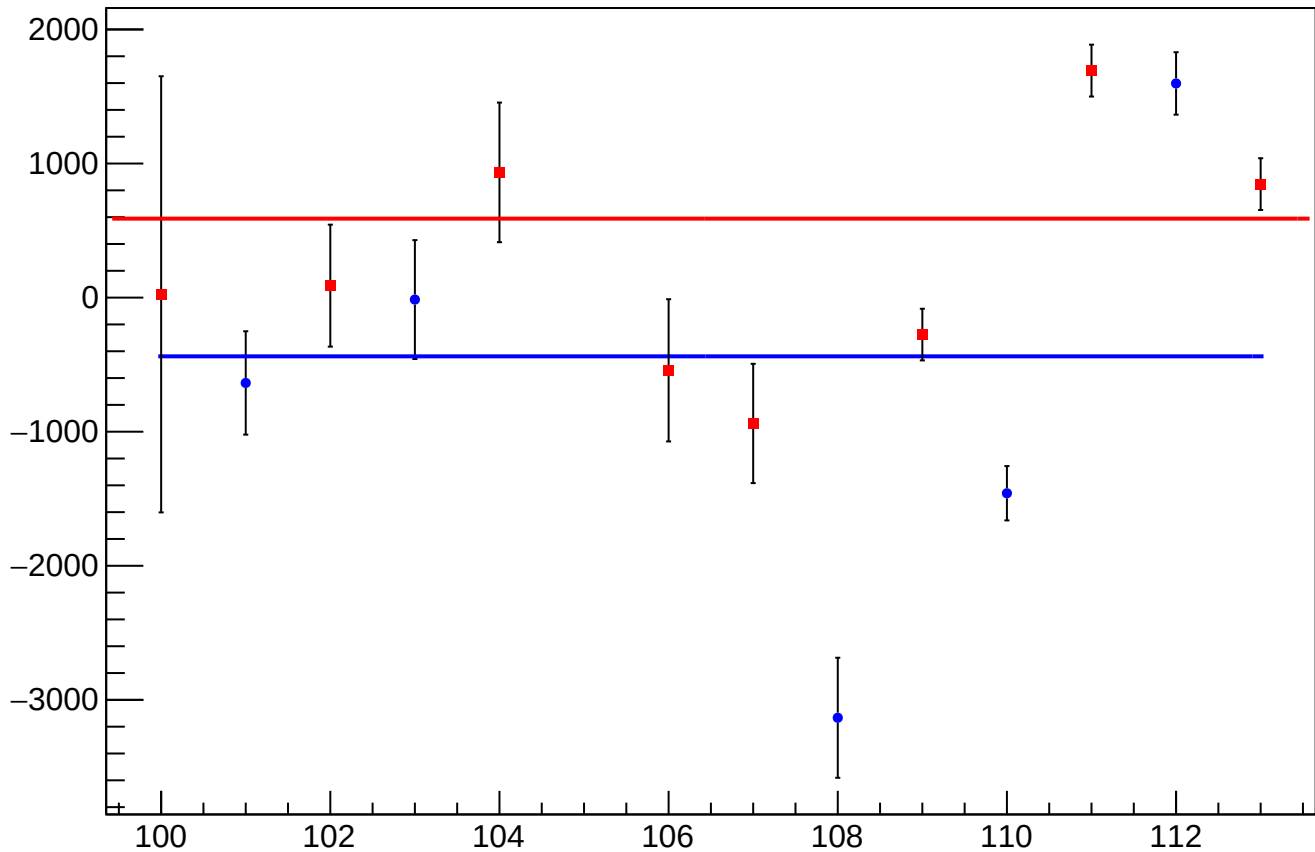
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 379.462+/-0.134  $\chi^2/\text{NDF}$ : 2719811.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l04WS\_mean vs Slug



Right In: -437.944 $\pm$ 129.537  $\chi^2$ /NDF: 139.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 589.007 $\pm$ 100.994  $\chi^2$ /NDF: 72.6/7

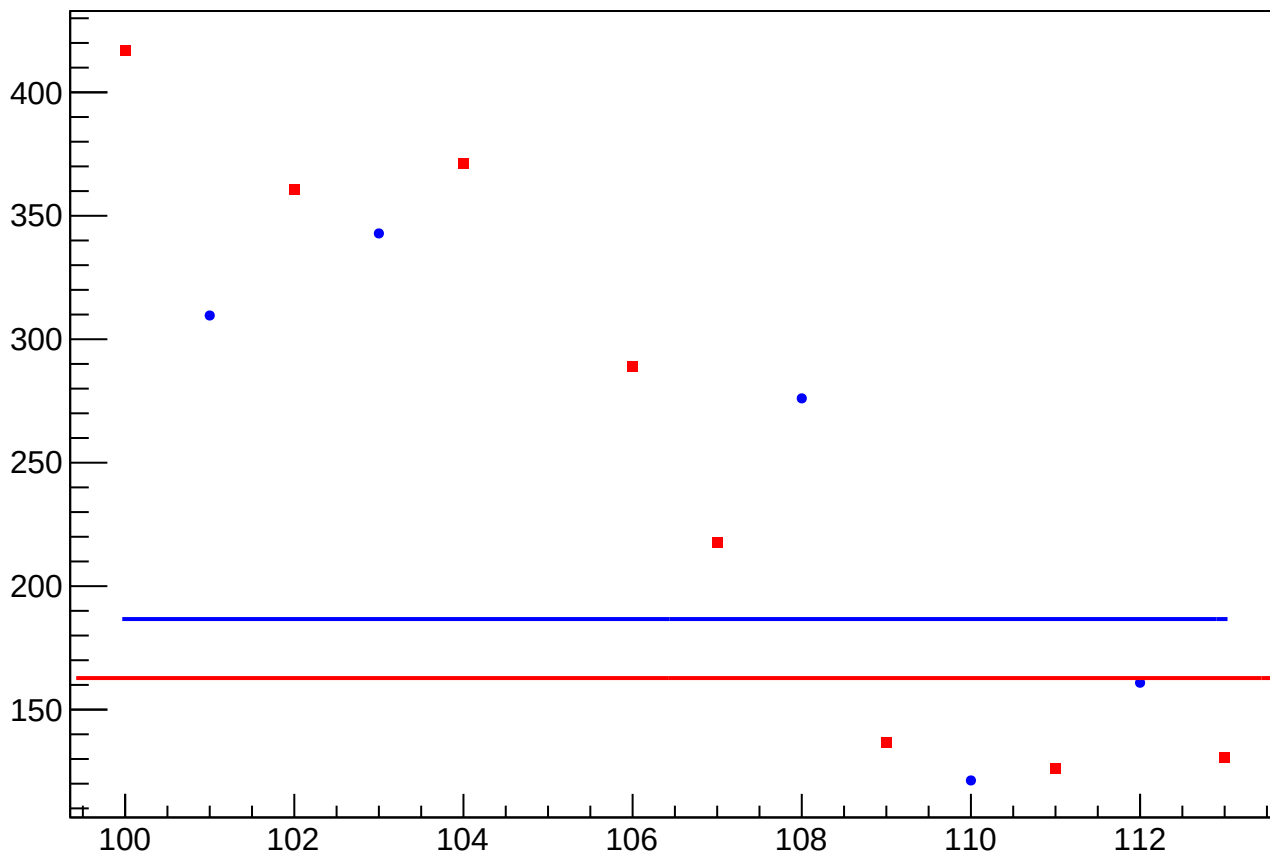
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 200.760 $\pm$ 79.648  $\chi^2$ /NDF: 250.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l04WS\_rms vs Slug



Right In: 186.675+/-0.092  $\chi^2/\text{NDF}$ : 763969.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 162.777+/-0.071  $\chi^2/\text{NDF}$ : 1056424.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

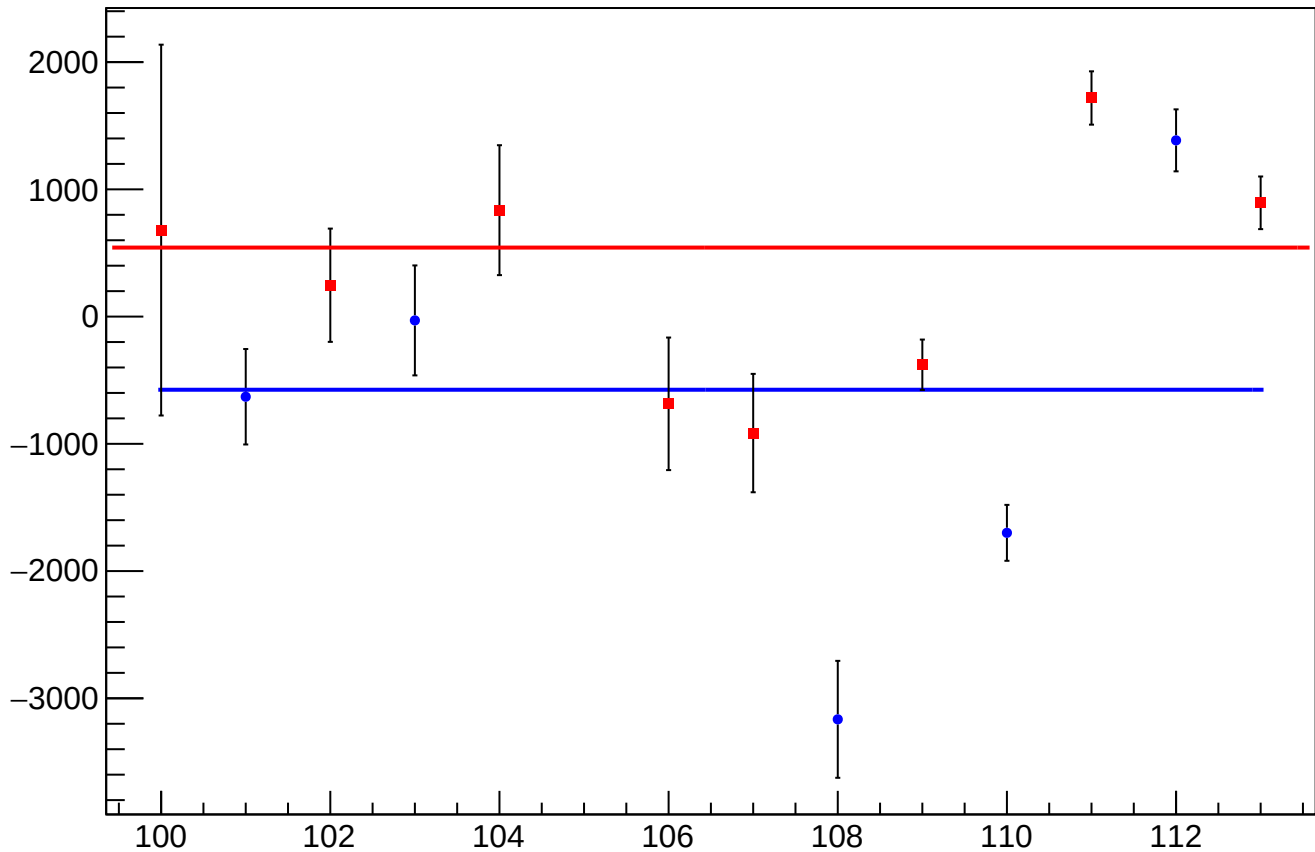
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 171.812+/-0.056  $\chi^2/\text{NDF}$ : 1862730.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0l05WS\_mean vs Slug



Right In:  $-574.916 \pm 135.134$   $\chi^2/\text{NDF}$ : 124.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $542.421 \pm 105.861$   $\chi^2/\text{NDF}$ : 72.1/7

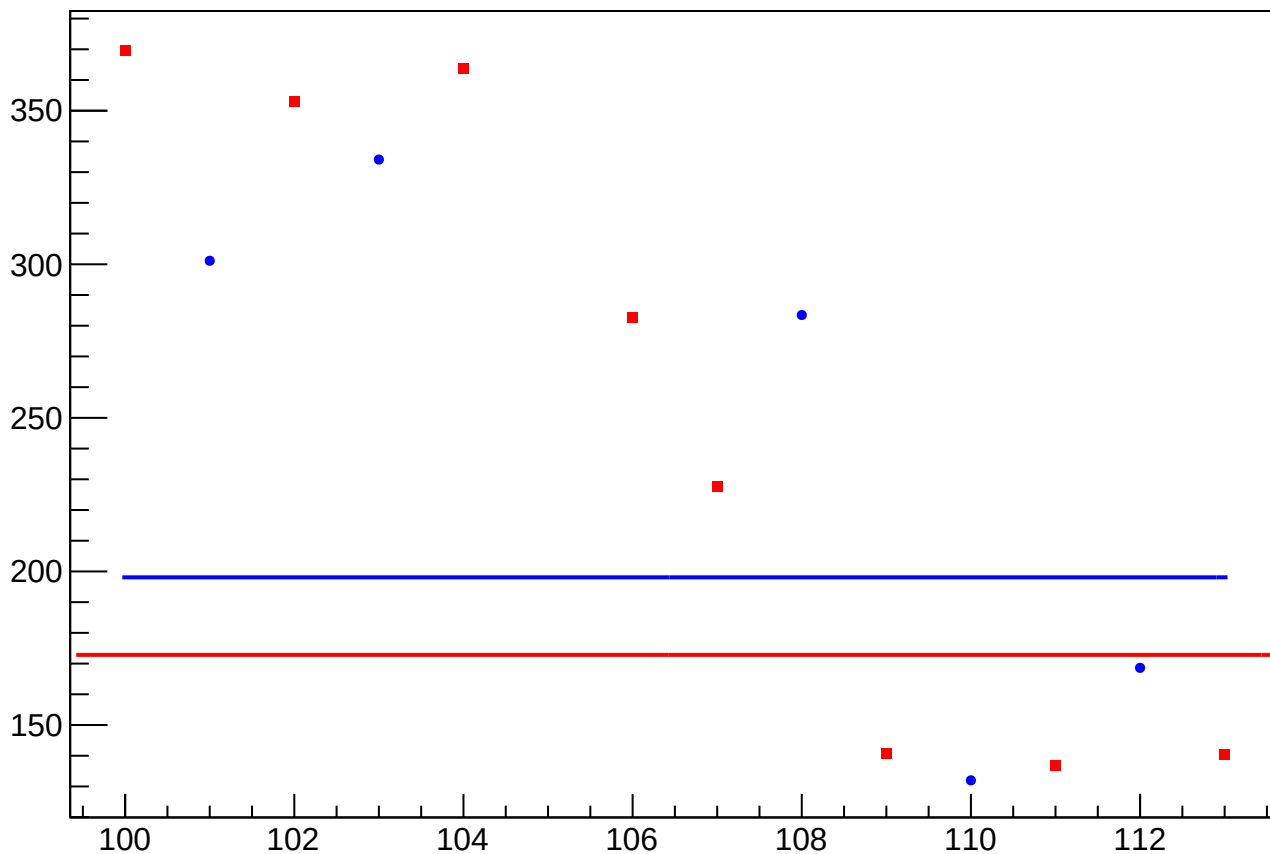
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $117.501 \pm 83.335$   $\chi^2/\text{NDF}$ : 238.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l05WS\_rms vs Slug



Right In: 198.082 $\pm$ 0.096  $\chi^2$ /NDF: 628399.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 172.836 $\pm$ 0.075  $\chi^2$ /NDF: 920765.8/7

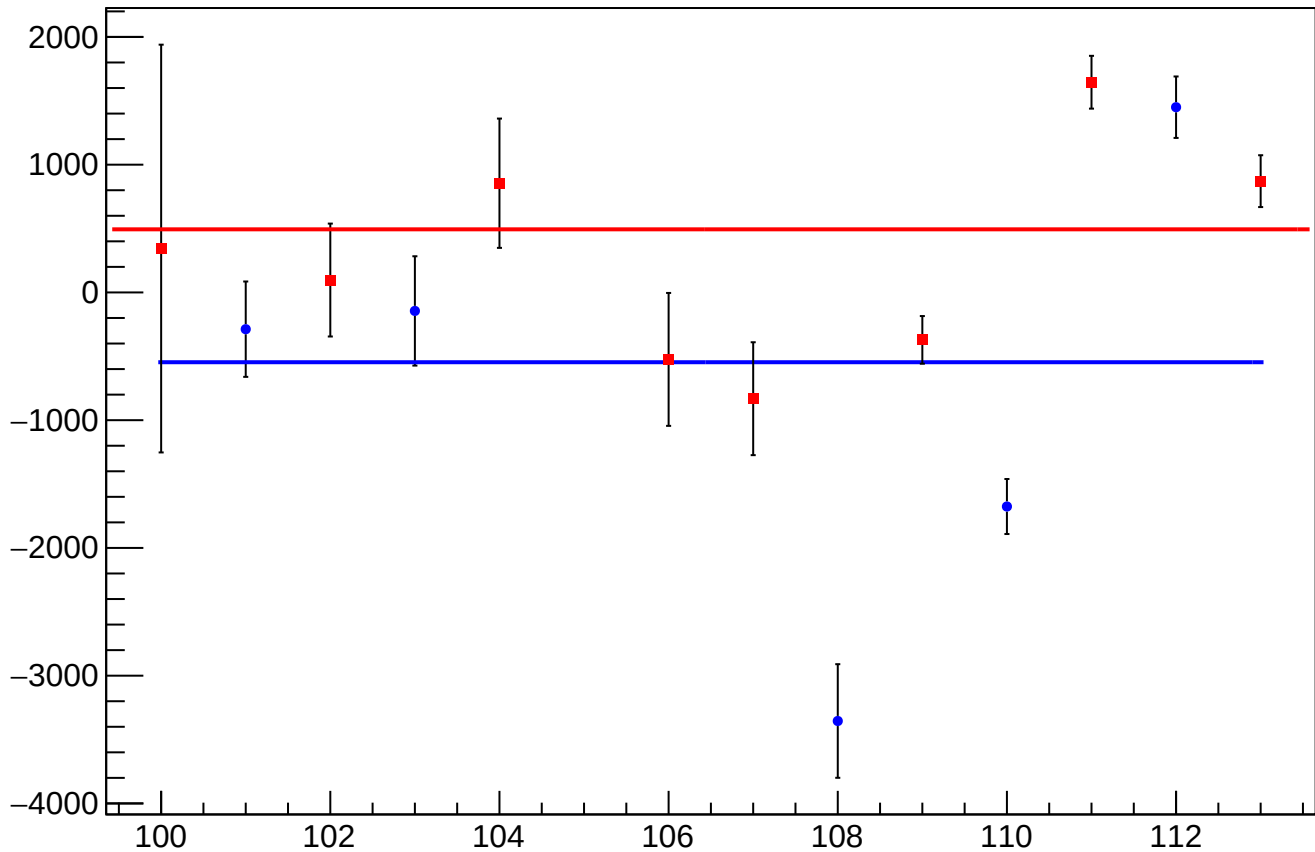
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 182.437 $\pm$ 0.059  $\chi^2$ /NDF: 1592421.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l06WS\_mean vs Slug



Right In:  $-546.328 \pm 132.981$   $\chi^2/\text{NDF}$ : 137.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $493.952 \pm 102.767$   $\chi^2/\text{NDF}$ : 70.2/7

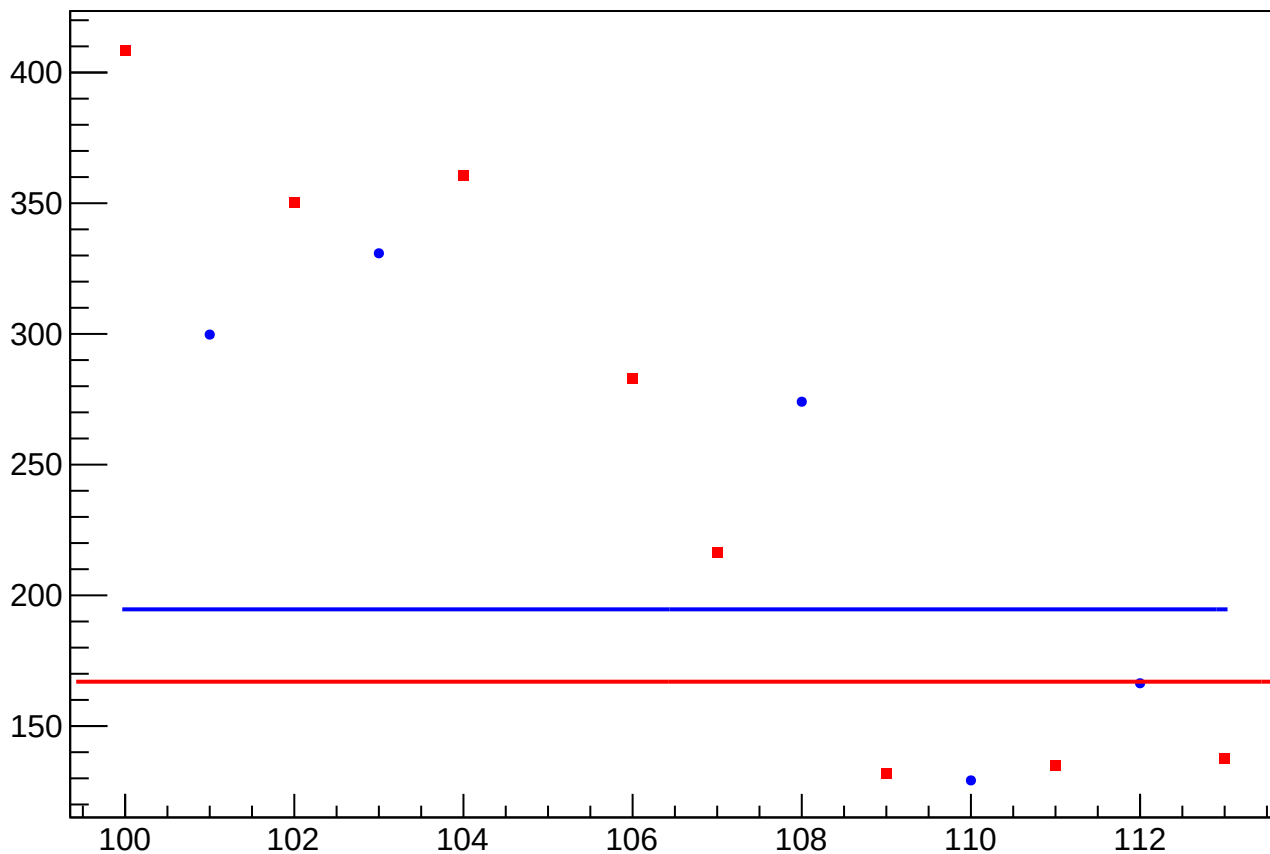
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $104.980 \pm 81.315$   $\chi^2/\text{NDF}$ : 246.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l06WS\_rms vs Slug



Right In: 194.646+/-0.094  $\chi^2/\text{NDF}$ : 637286.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 166.970+/-0.073  $\chi^2/\text{NDF}$ : 967321.5/7

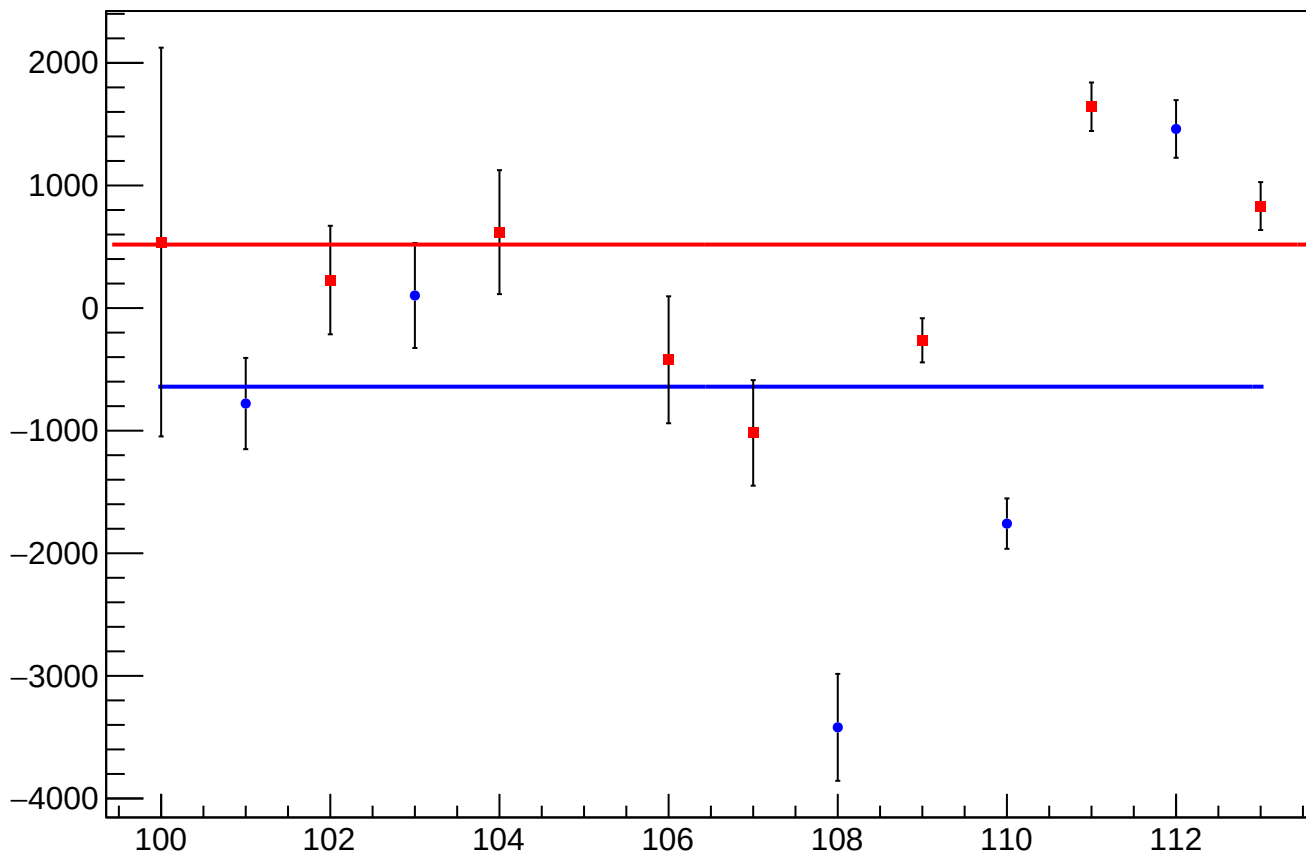
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 177.318+/-0.057  $\chi^2/\text{NDF}$ : 1658844.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l07WS\_mean vs Slug



Right In: -641.131 $\pm$ 129.435  $\chi^2$ /NDF: 153.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 518.041 $\pm$ 99.442  $\chi^2$ /NDF: 70.2/7

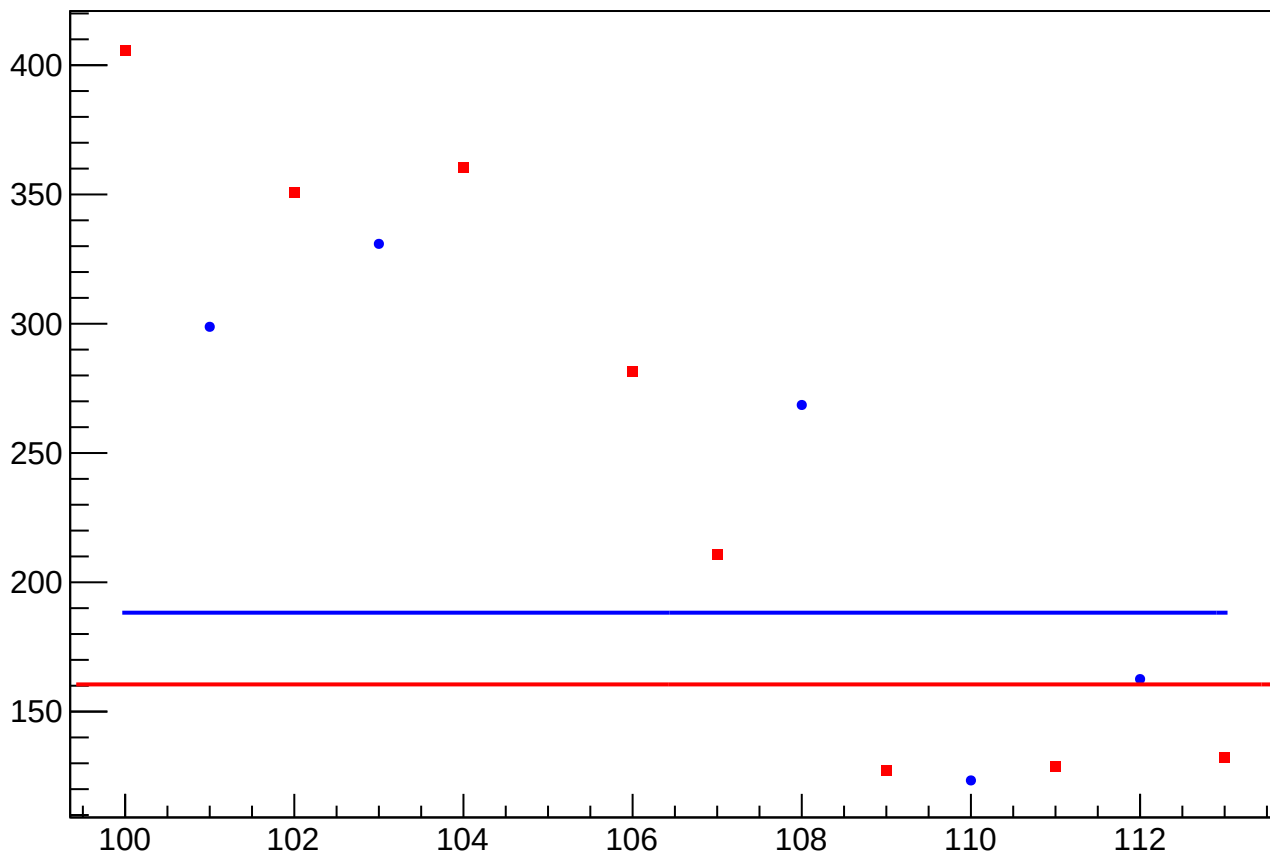
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 87.797 $\pm$ 78.856  $\chi^2$ /NDF: 273.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l07WS\_rms vs Slug



Right In: 188.249+/-0.092  $\chi^2/\text{NDF}$ : 689753.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 160.510+/-0.070  $\chi^2/\text{NDF}$ : 1027880.0/7

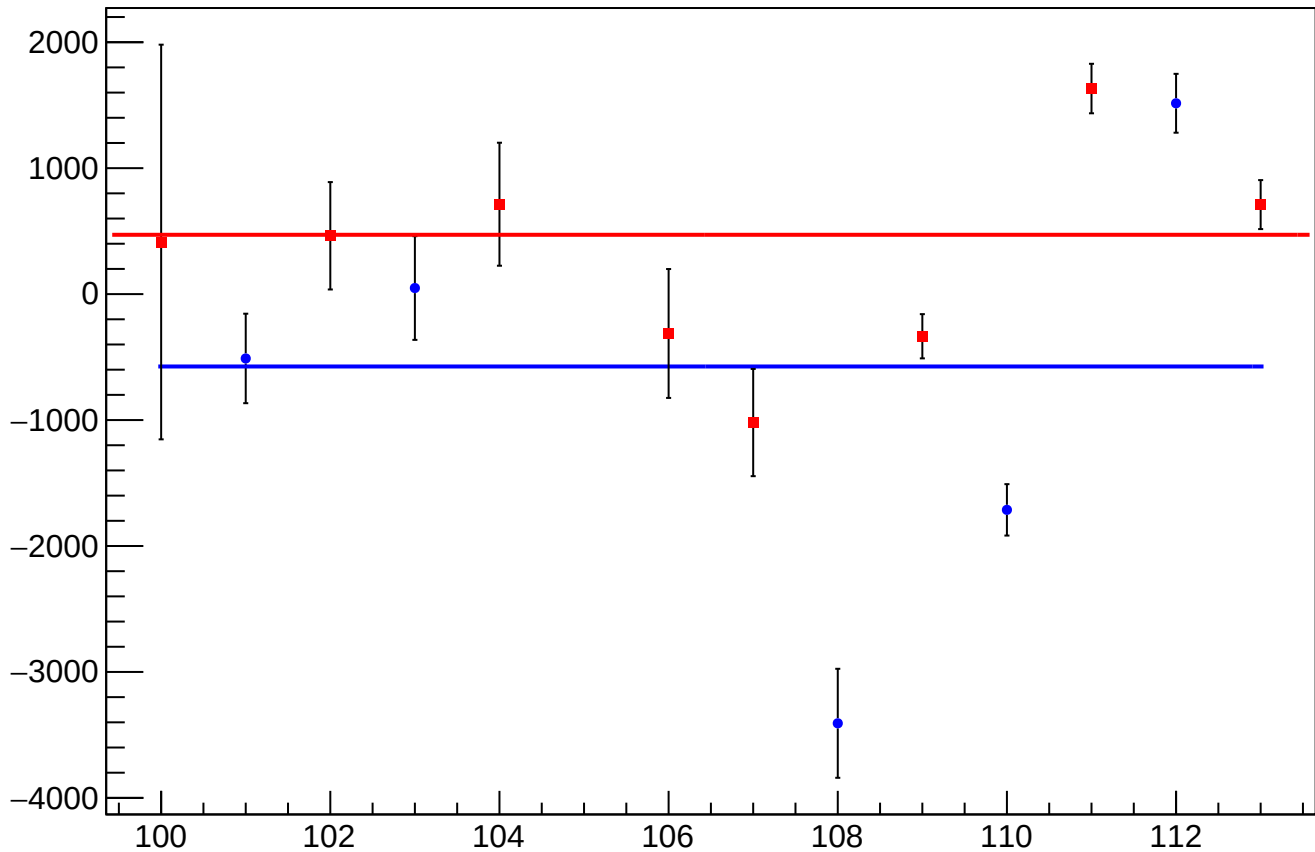
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 170.806+/-0.056  $\chi^2/\text{NDF}$ : 1775396.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l08WS\_mean vs Slug



Right In: -574.640+/-127.539  $\chi^2/\text{NDF}$ : 156.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 470.995+/-97.963  $\chi^2/\text{NDF}$ : 72.3/7

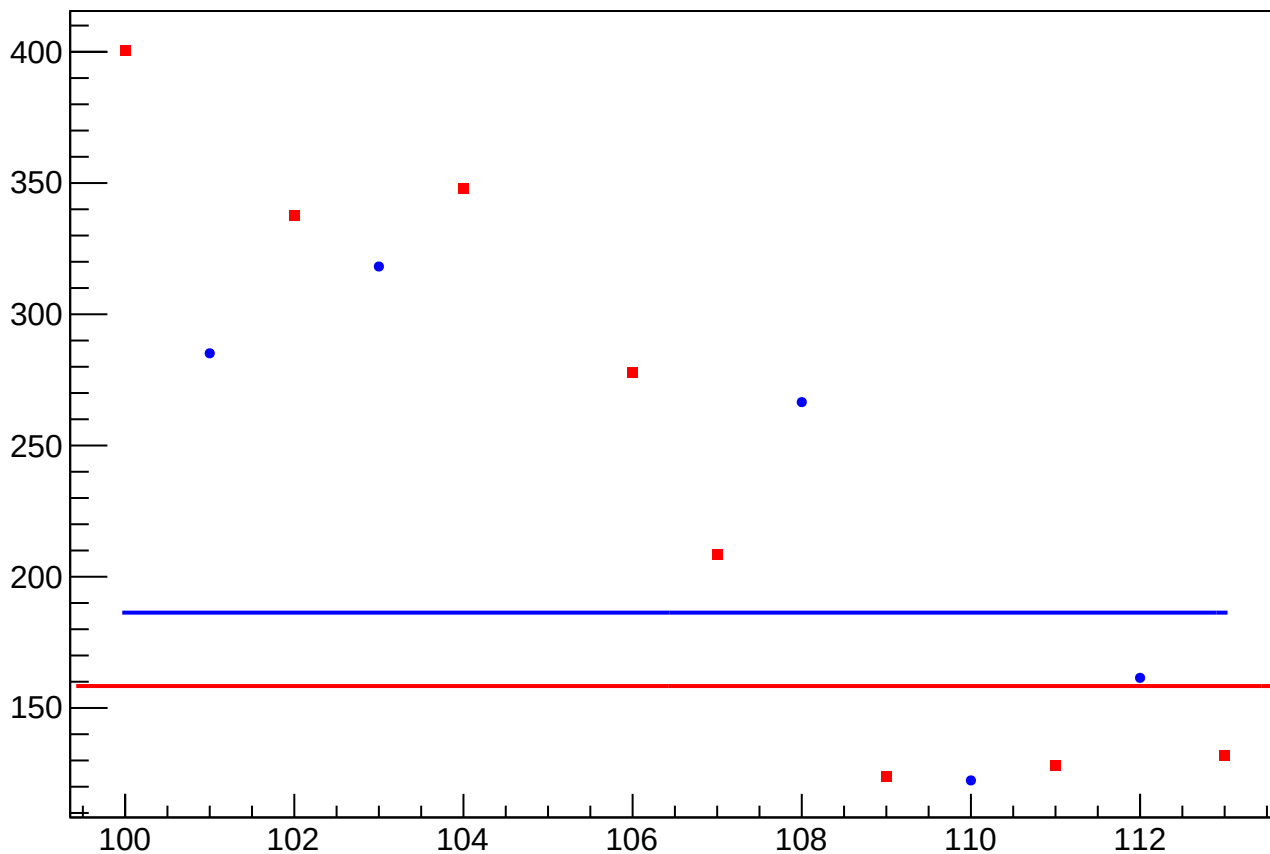
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 82.996+/-77.690  $\chi^2/\text{NDF}$ : 270.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l08WS\_rms vs Slug



Right In: 186.327+/-0.090  $\chi^2/\text{NDF}$ : 647437.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 158.359+/-0.069  $\chi^2/\text{NDF}$ : 1001730.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

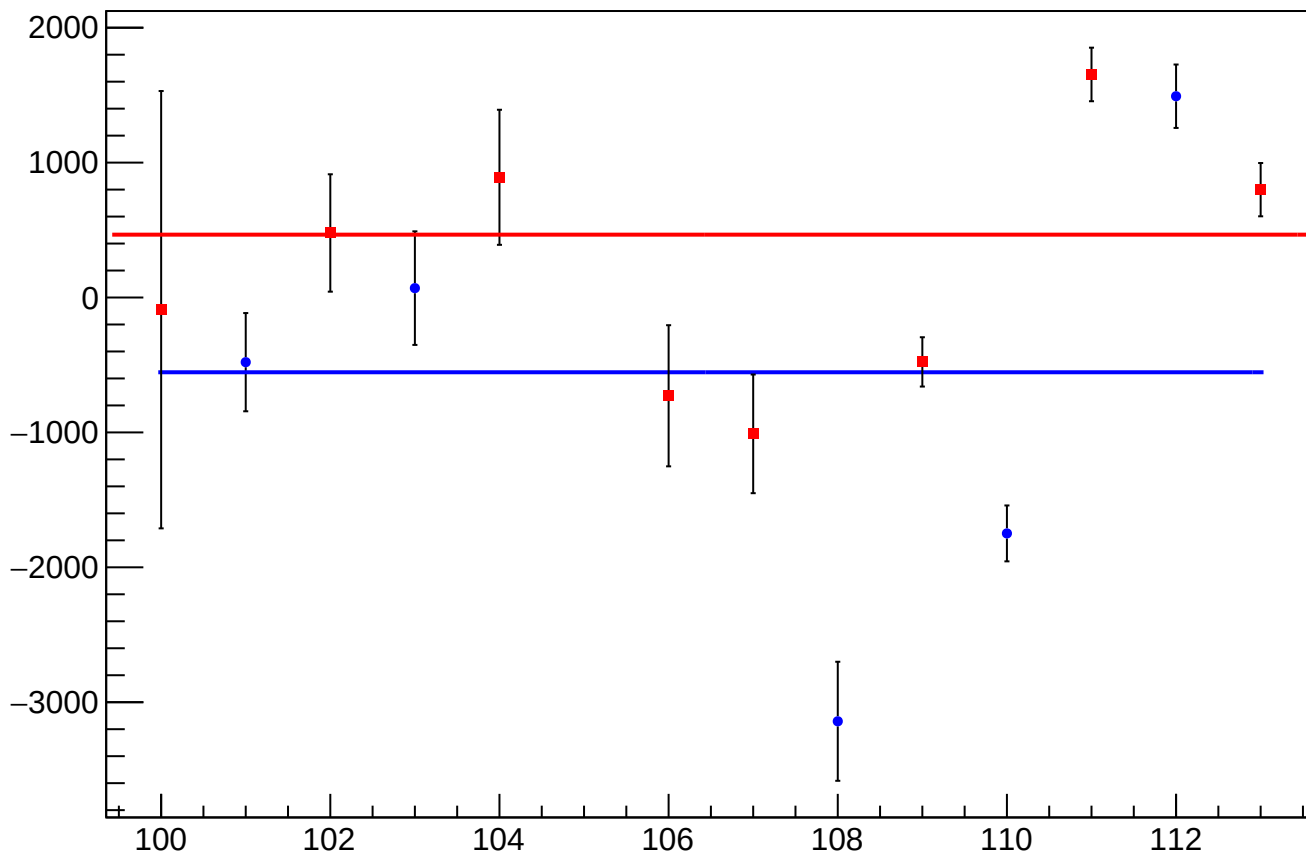
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 168.737+/-0.055  $\chi^2/\text{NDF}$ : 1709655.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0l09WS\_mean vs Slug



Right In: -554.152 $\pm$ 129.396  $\chi^2$ /NDF: 145.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 465.915 $\pm$ 100.296  $\chi^2$ /NDF: 82.6/7

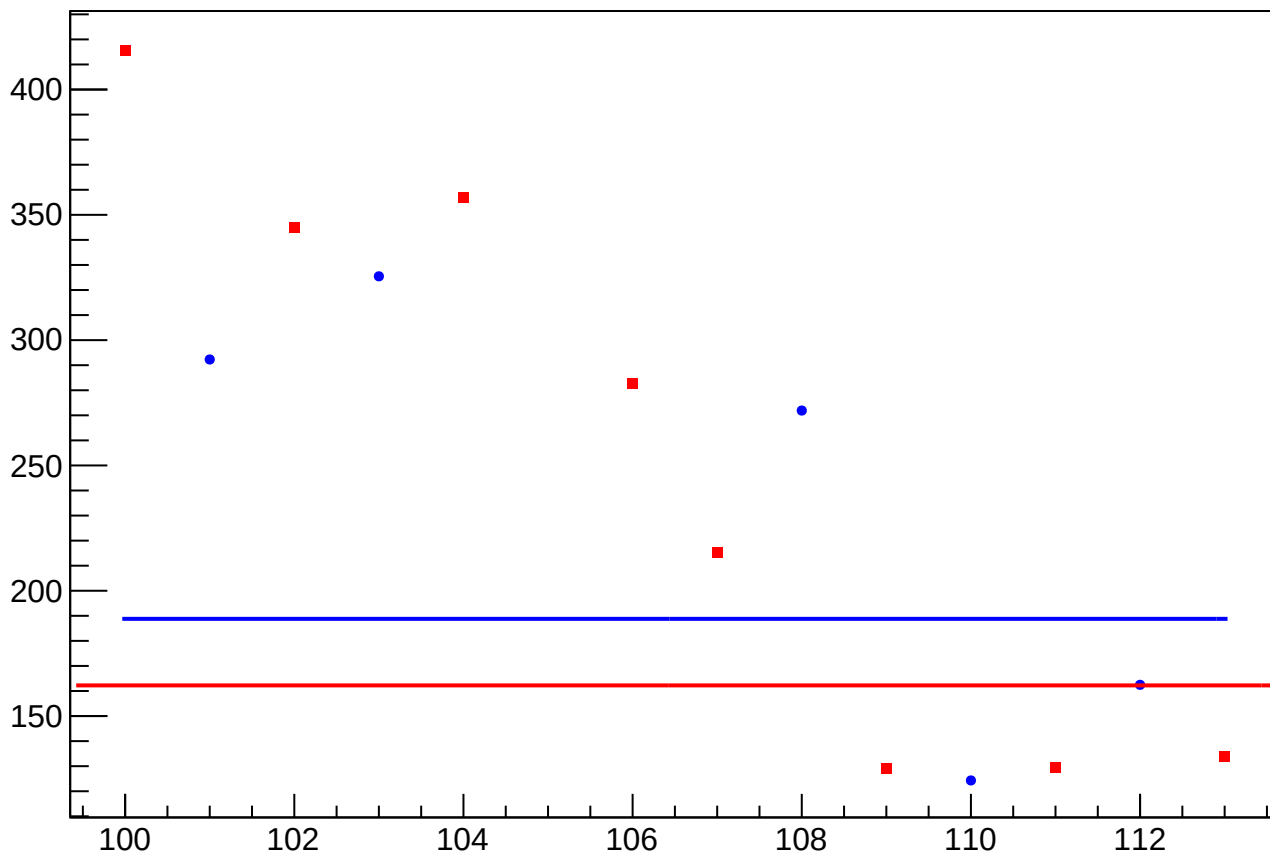
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 83.072 $\pm$ 79.272  $\chi^2$ /NDF: 267.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l09WS\_rms vs Slug



Right In: 188.791+/-0.091  $\chi^2/\text{NDF}$ : 662259.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 162.233+/-0.071  $\chi^2/\text{NDF}$ : 999014.8/7

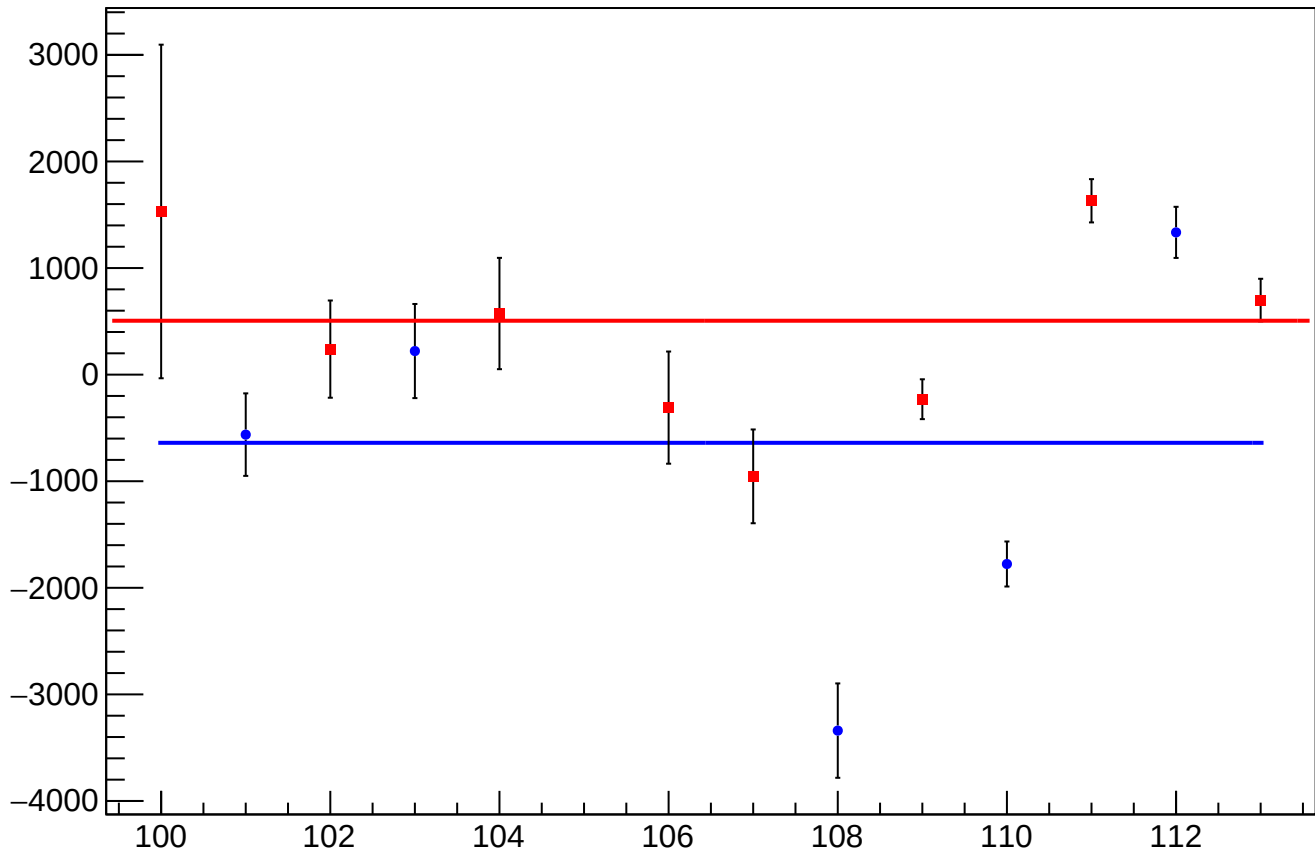
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 172.201+/-0.056  $\chi^2/\text{NDF}$ : 1713906.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l10WS\_mean vs Slug



Right In: -639.658 $\pm$ 132.791  $\chi^2$ /NDF: 137.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 505.689 $\pm$ 102.278  $\chi^2$ /NDF: 61.4/7

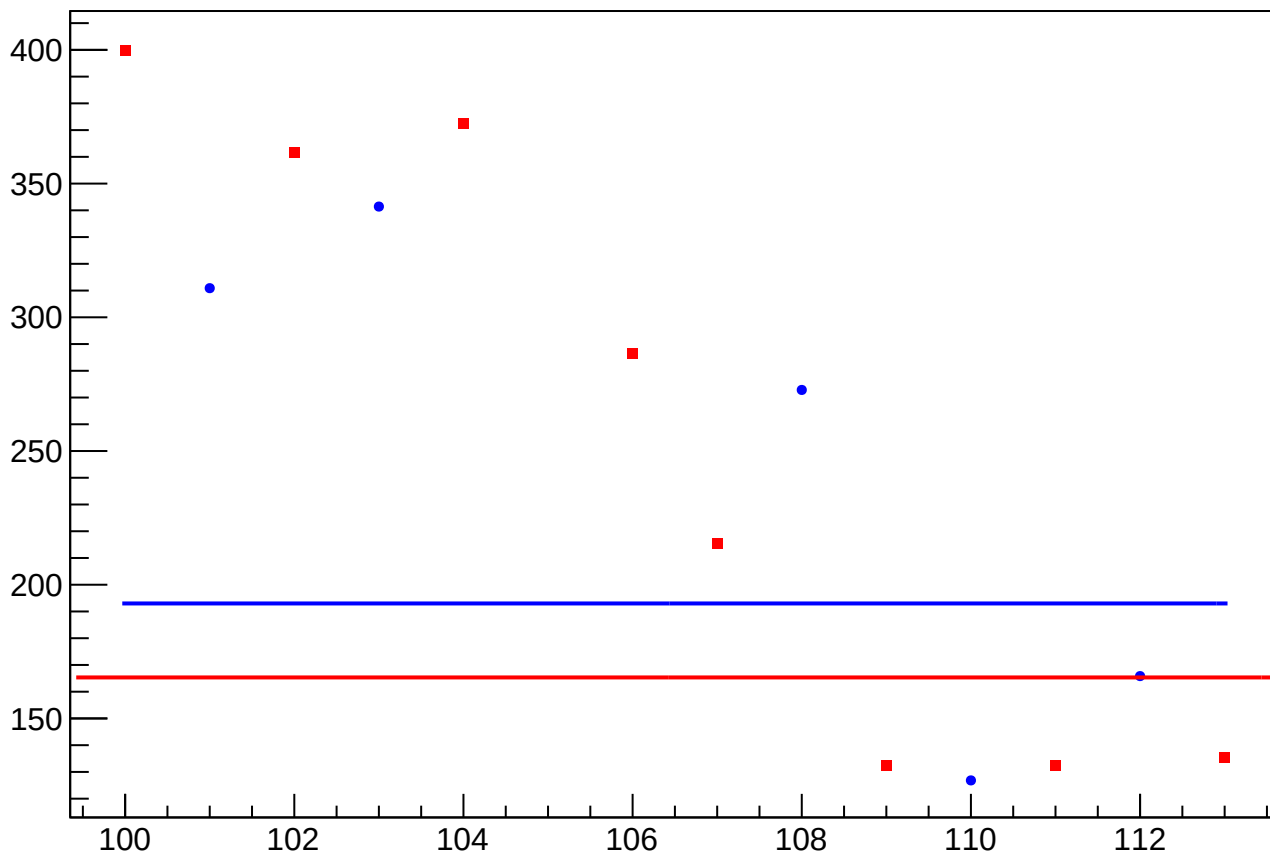
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 79.223 $\pm$ 81.030  $\chi^2$ /NDF: 245.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l10WS\_rms vs Slug



Right In: 192.997+/-0.094  $\chi^2/\text{NDF}$ : 698453.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 165.333+/-0.072  $\chi^2/\text{NDF}$ : 1021738.3/7

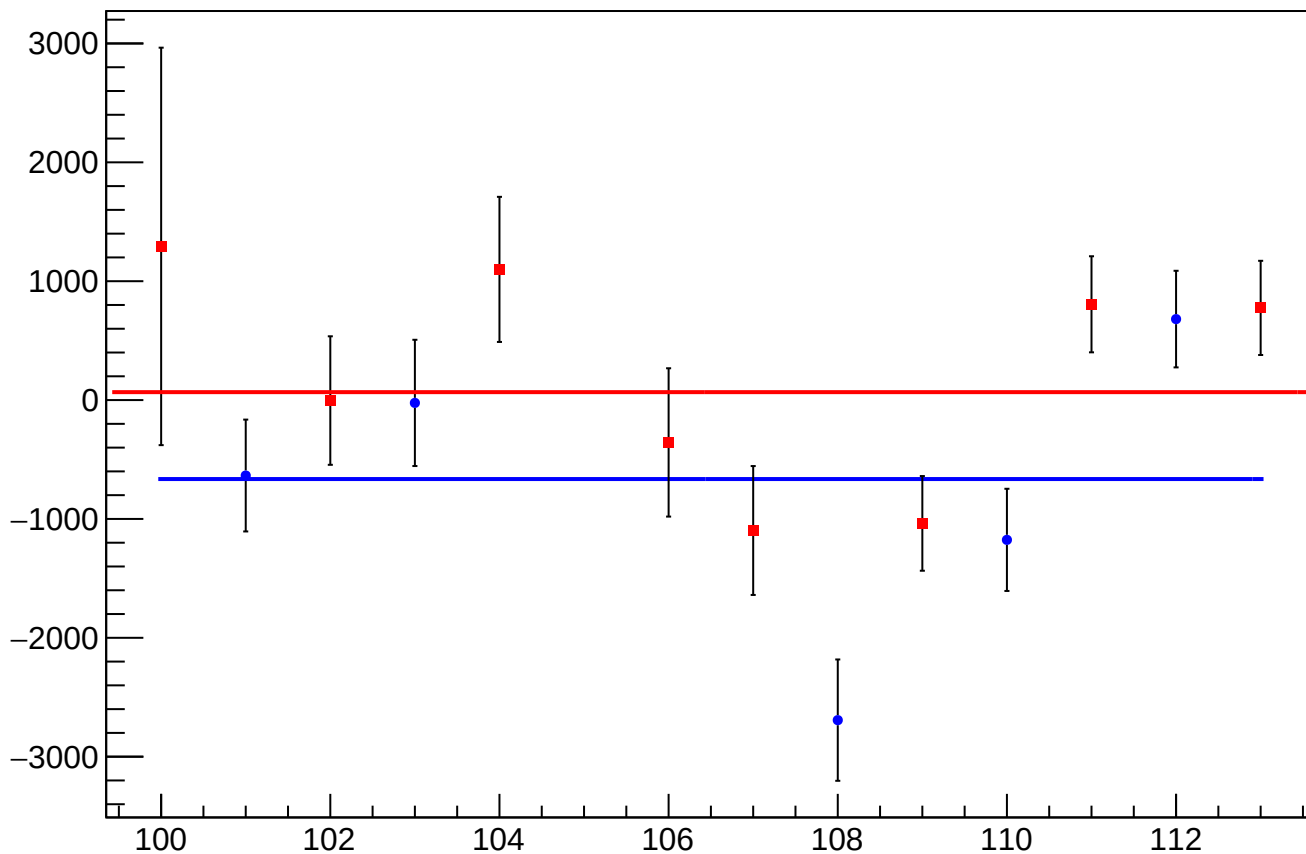
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 175.633+/-0.057  $\chi^2/\text{NDF}$ : 1774674.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0r03WS\_mean vs Slug



Right In: -664.400 $\pm$ 206.845  $\chi^2$ /NDF: 29.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 66.672 $\pm$ 178.932  $\chi^2$ /NDF: 22.7/7

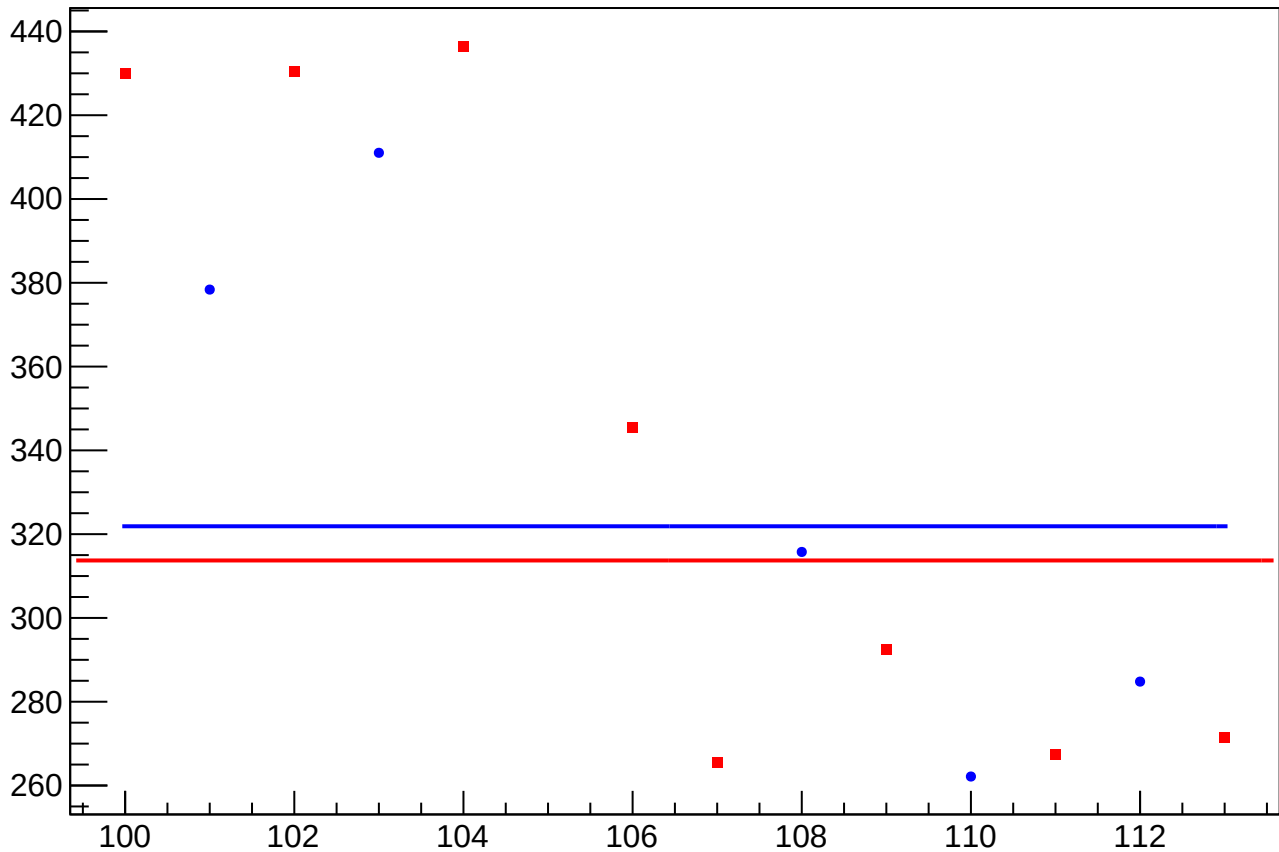
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -246.242 $\pm$ 135.325  $\chi^2$ /NDF: 59.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0r03WS\_rms vs Slug



Right In: 321.880 $\pm$ 0.146  $\chi^2$ /NDF: 140782.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 313.719 $\pm$ 0.127  $\chi^2$ /NDF: 259684.2/7

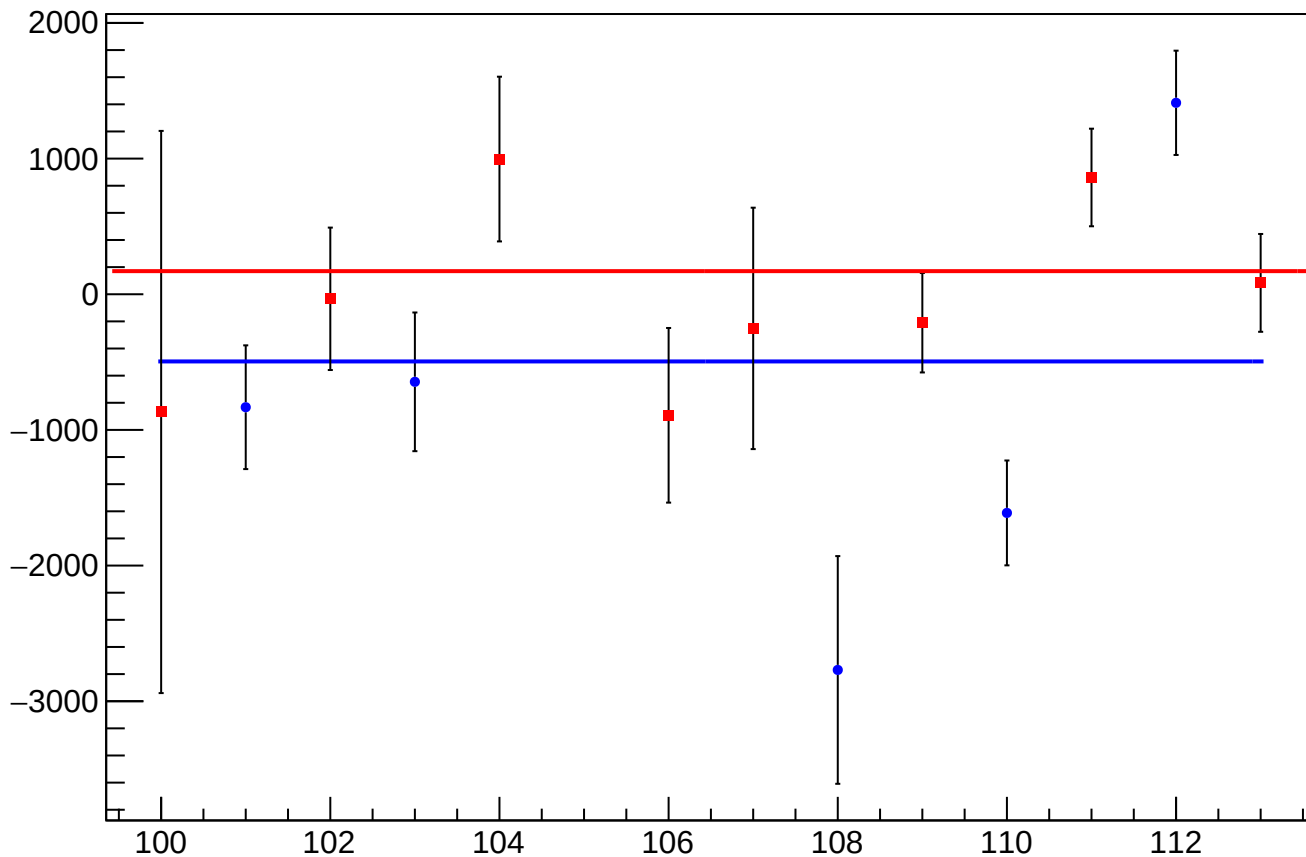
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 317.212 $\pm$ 0.096  $\chi^2$ /NDF: 402247.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0r05WS\_mean vs Slug



Right In: -495.230 $\pm$ 206.209  $\chi^2$ /NDF: 40.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 170.395 $\pm$ 173.770  $\chi^2$ /NDF: 10.0/7

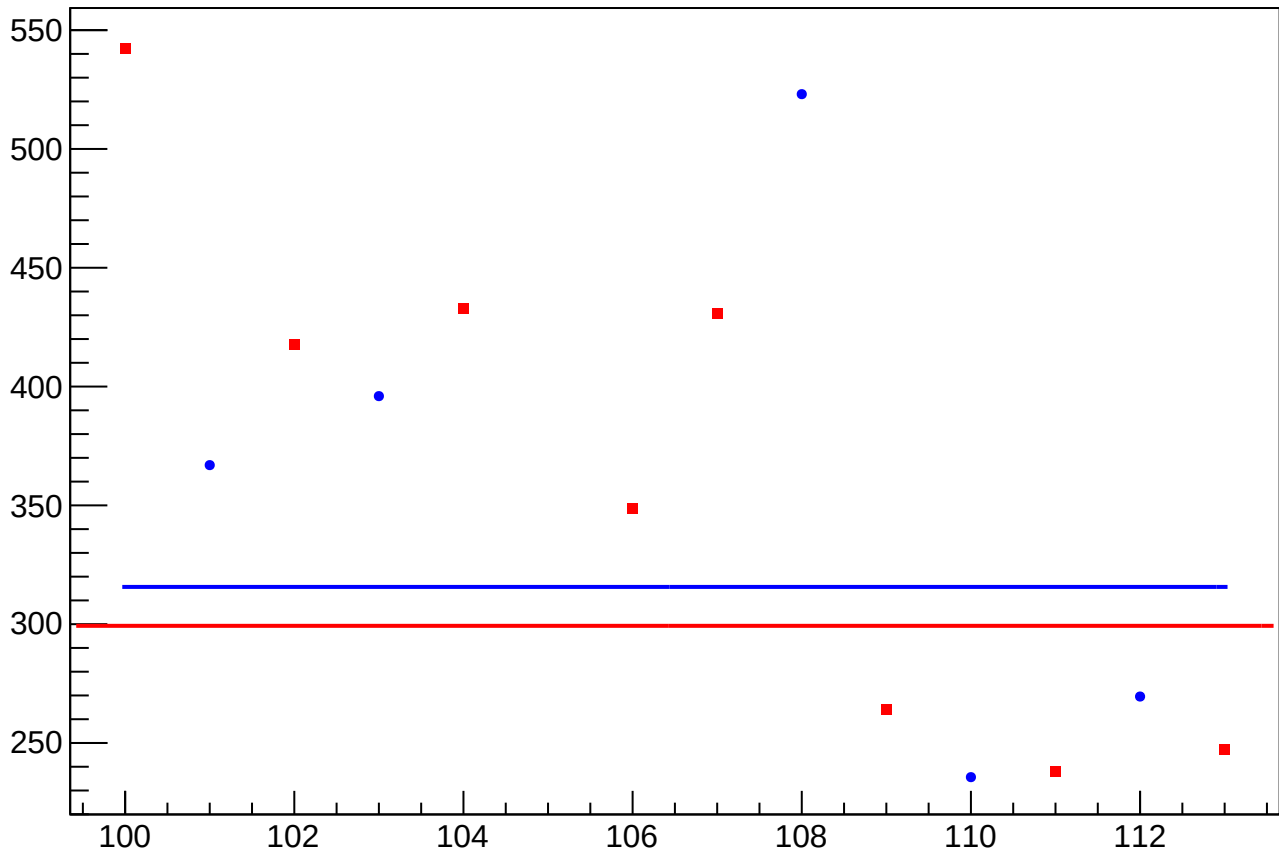
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -106.004 $\pm$ 132.880  $\chi^2$ /NDF: 57.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0r05WS\_rms vs Slug



Right In: 315.682 $\pm$ 0.146  $\chi^2$ /NDF: 311364.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 299.305 $\pm$ 0.123  $\chi^2$ /NDF: 400037.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

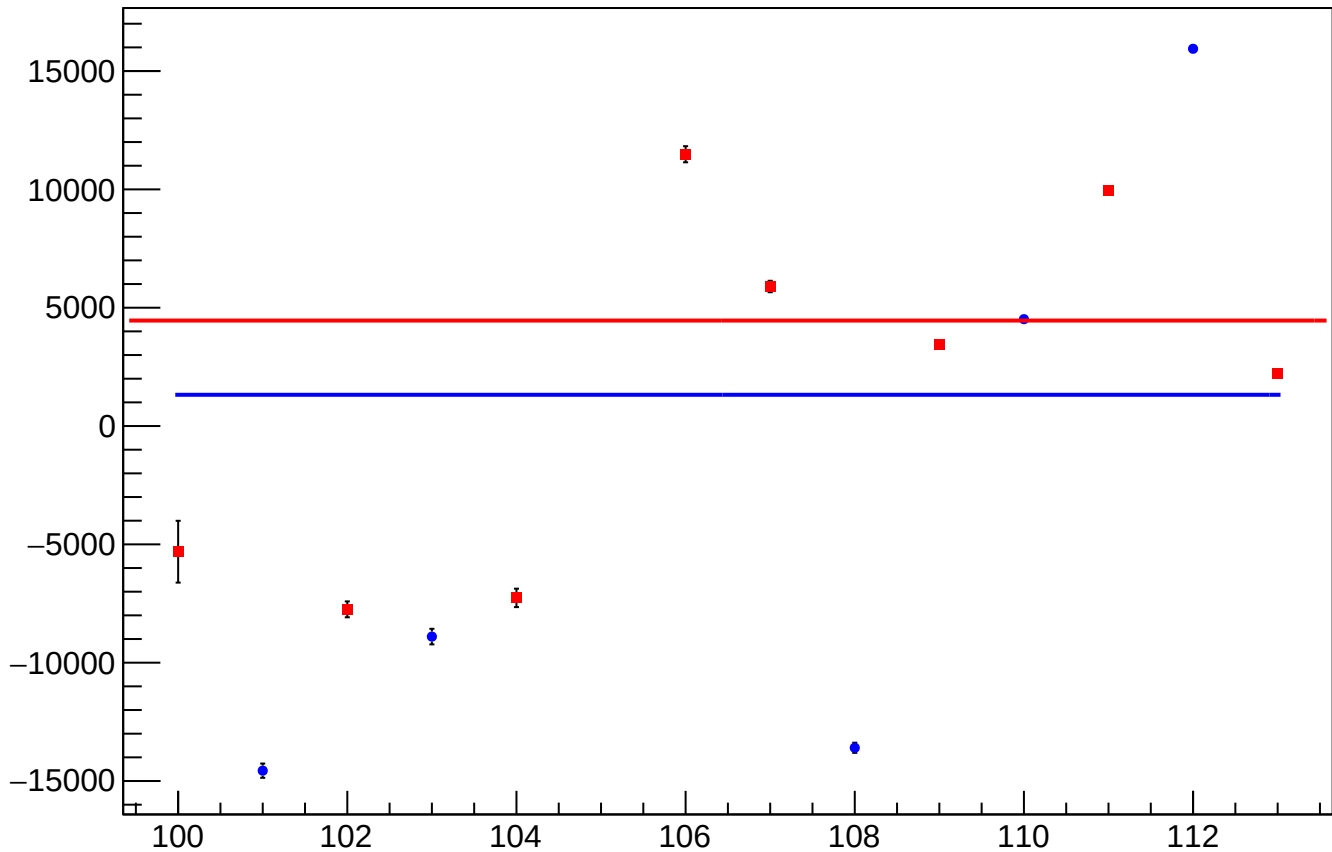
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 306.105 $\pm$ 0.094  $\chi^2$ /NDF: 718778.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bpm0i02WS\_mean vs Slug



Right In: 1320.367+/-96.051  $\chi^2/\text{NDF}$ : 16001.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4457.061+/-79.464  $\chi^2/\text{NDF}$ : 4212.1/7

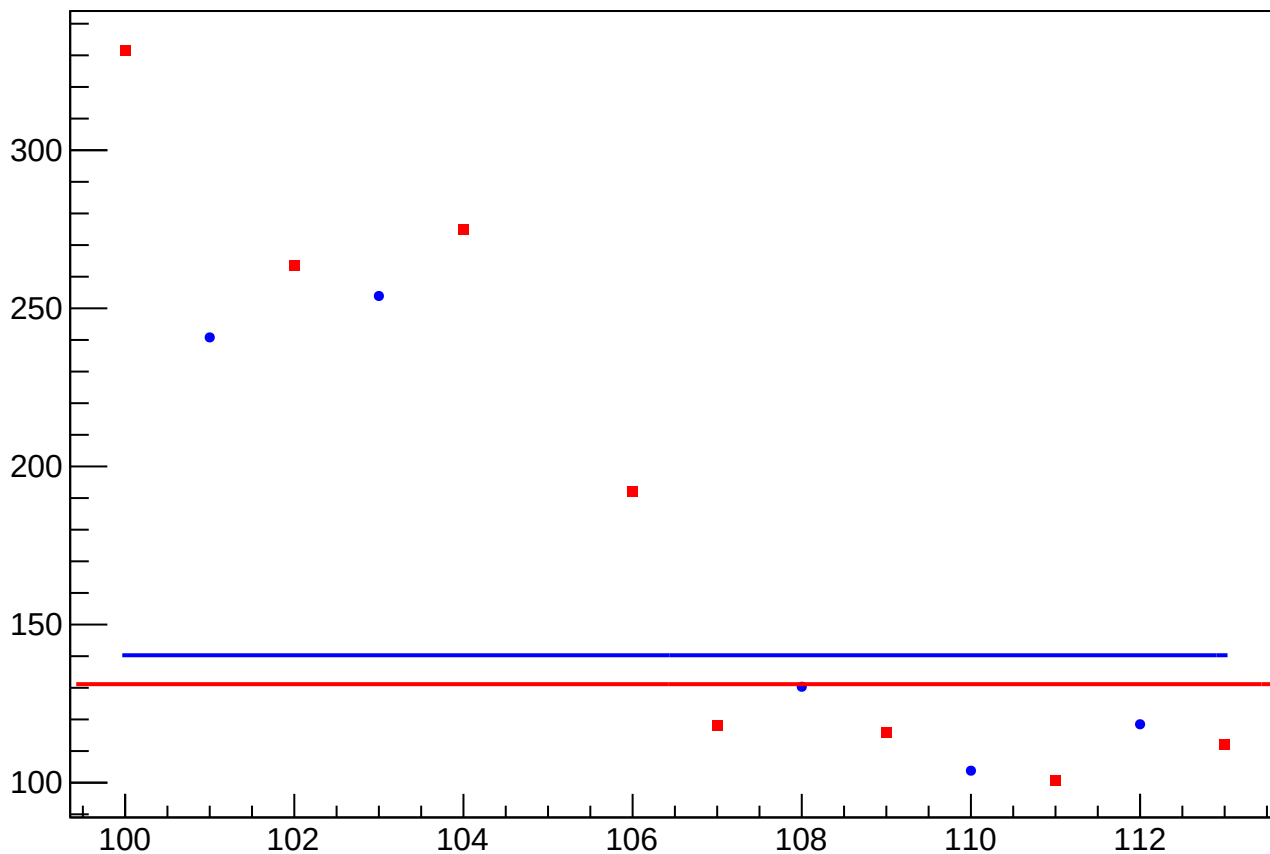
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3182.530+/-61.227  $\chi^2/\text{NDF}$ : 20846.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02WS\_rms vs Slug



Right In: 140.295+/-0.068  $\chi^2/\text{NDF}$ : 585277.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 131.153+/-0.056  $\chi^2/\text{NDF}$ : 820269.8/7

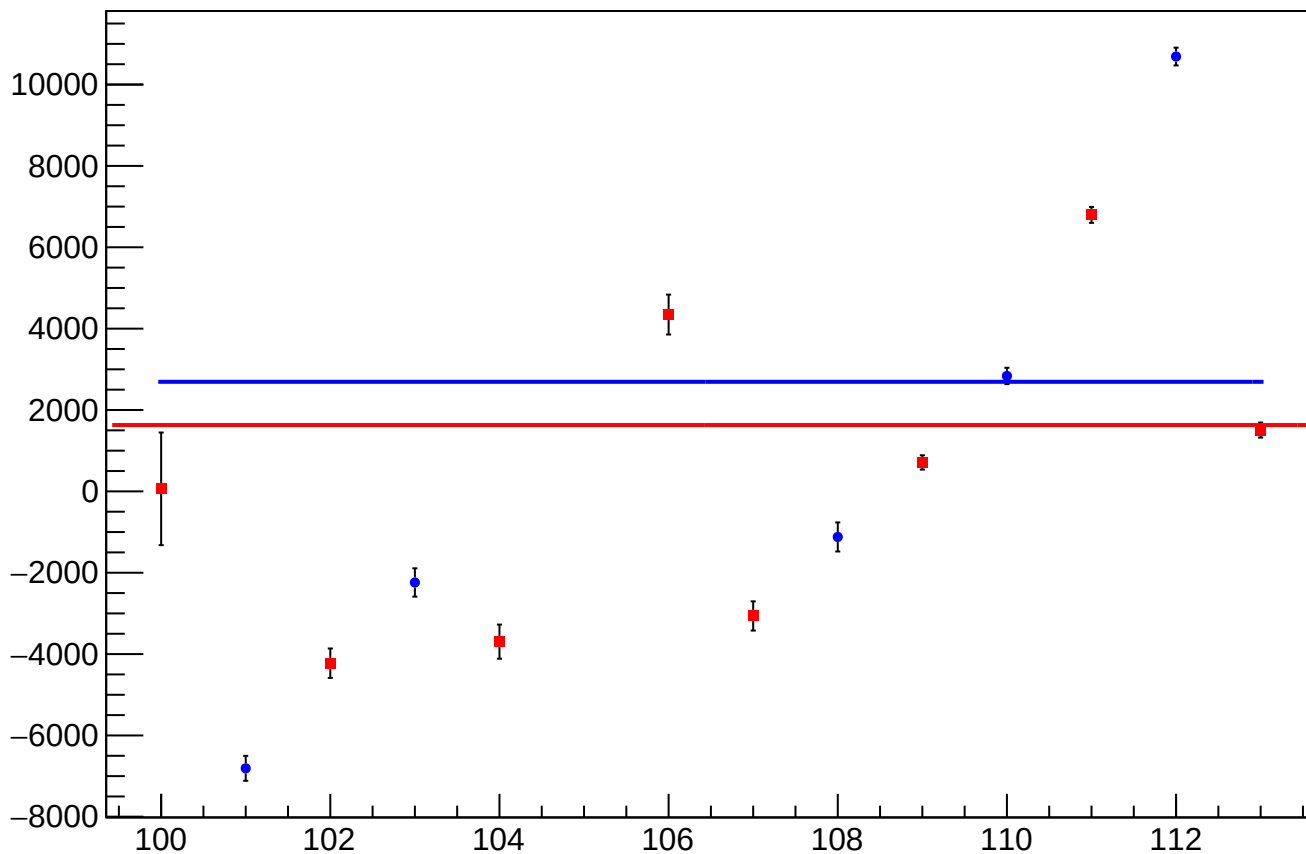
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 134.868+/-0.043  $\chi^2/\text{NDF}$ : 1416303.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02aWS\_mean vs Slug



Right In: 2693.147+/-117.394  $\chi^2/\text{NDF}$ : 2619.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1630.449+/-93.900  $\chi^2/\text{NDF}$ : 1349.0/7

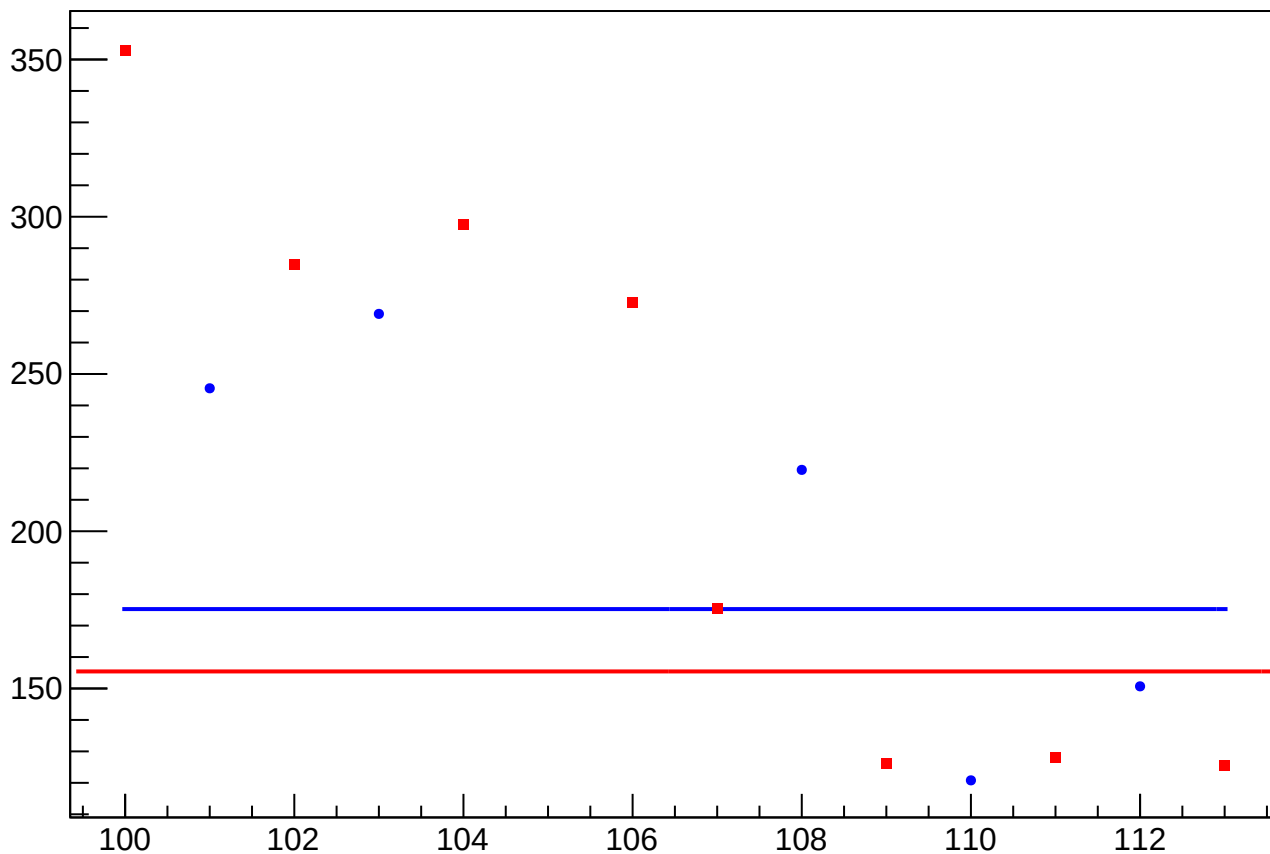
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2045.077+/-73.328  $\chi^2/\text{NDF}$ : 4018.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02aWS\_rms vs Slug



Right In: 175.249+/-0.083  $\chi^2/\text{NDF}$ : 453441.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 155.423+/-0.066  $\chi^2/\text{NDF}$ : 795751.2/7

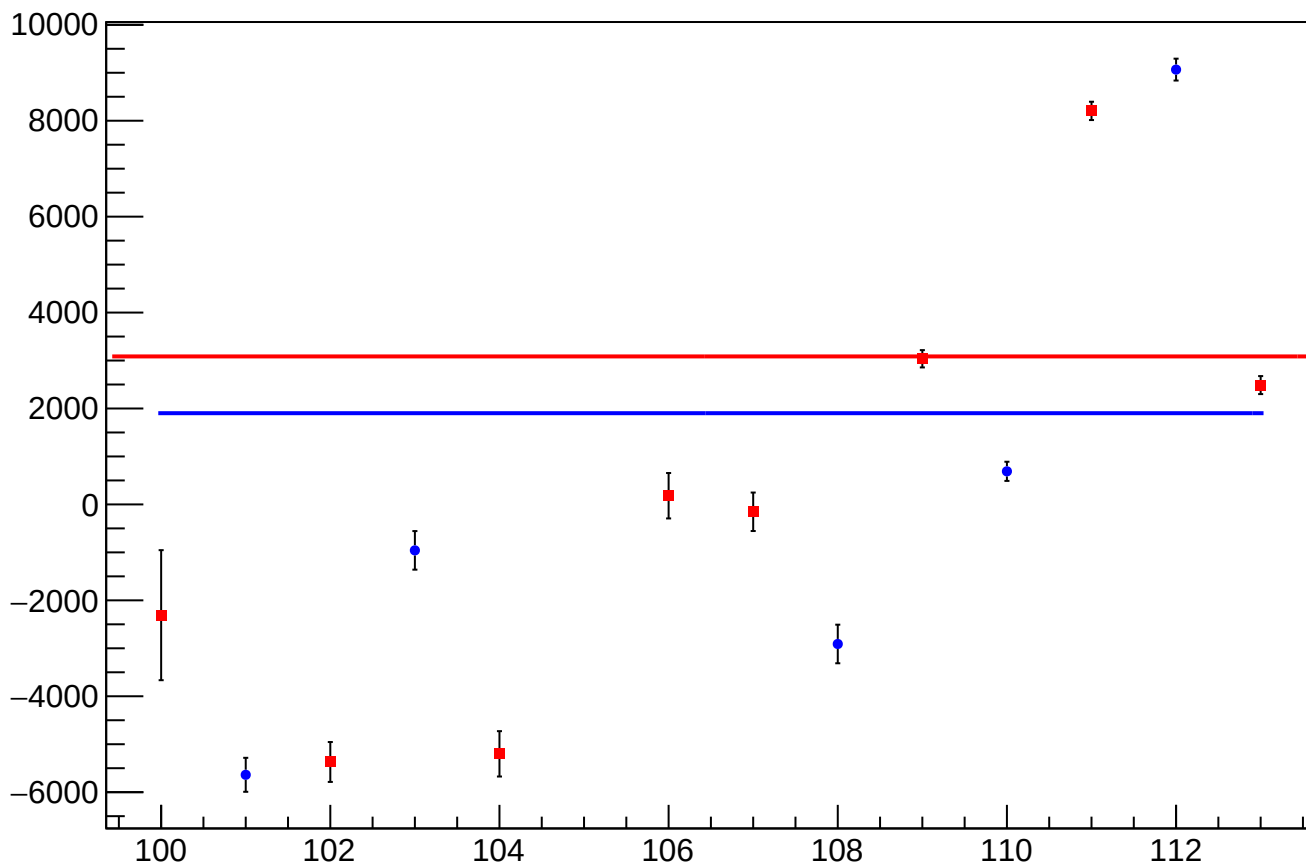
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 163.159+/-0.052  $\chi^2/\text{NDF}$ : 1283980.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i05WS\_mean vs Slug



Right In: 1902.037+/-124.388  $\chi^2/\text{NDF}$ : 1671.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3085.648+/-96.212  $\chi^2/\text{NDF}$ : 1567.9/7

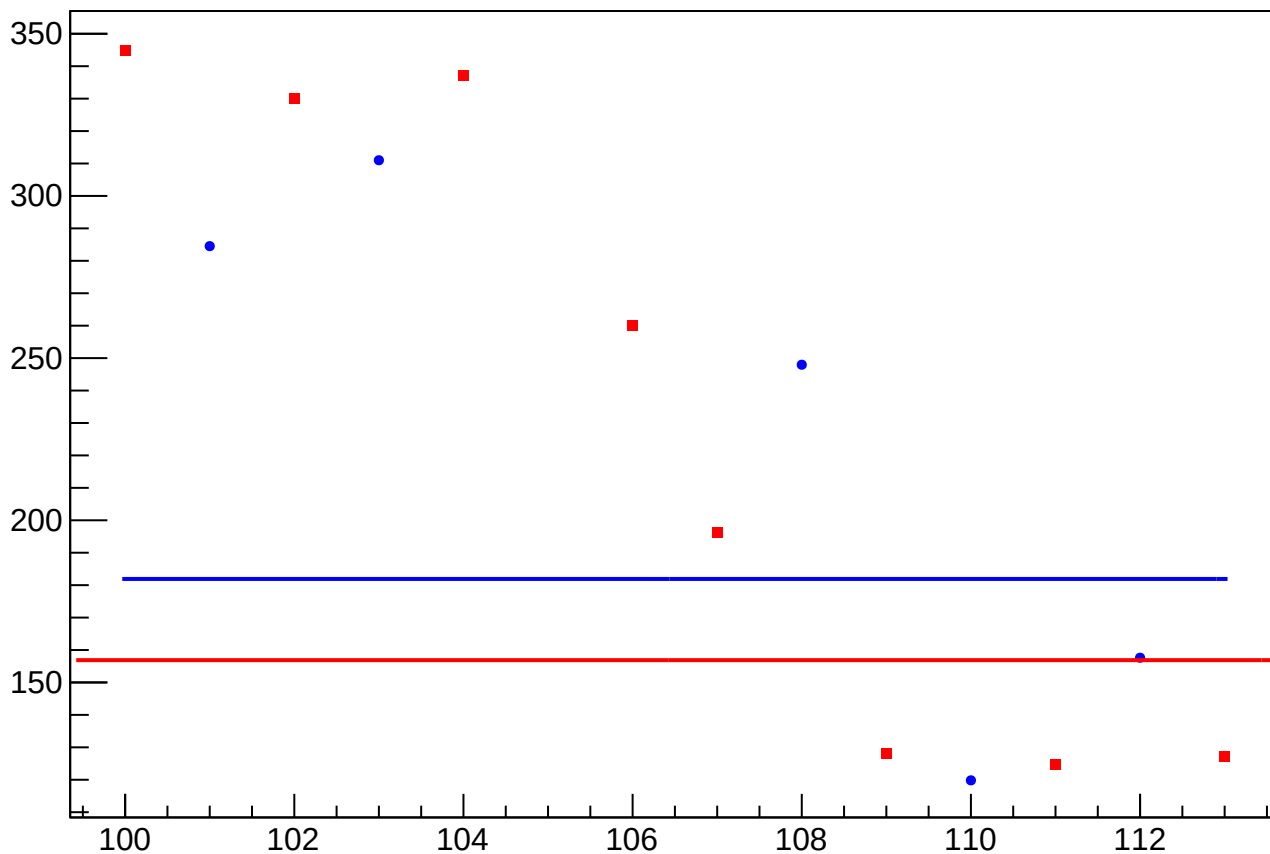
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2642.594+/-76.103  $\chi^2/\text{NDF}$ : 3295.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i05WS\_rms vs Slug



Right In: 181.914 $\pm$ 0.088  $\chi^2$ /NDF: 643638.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 156.877 $\pm$ 0.068  $\chi^2$ /NDF: 947473.8/7

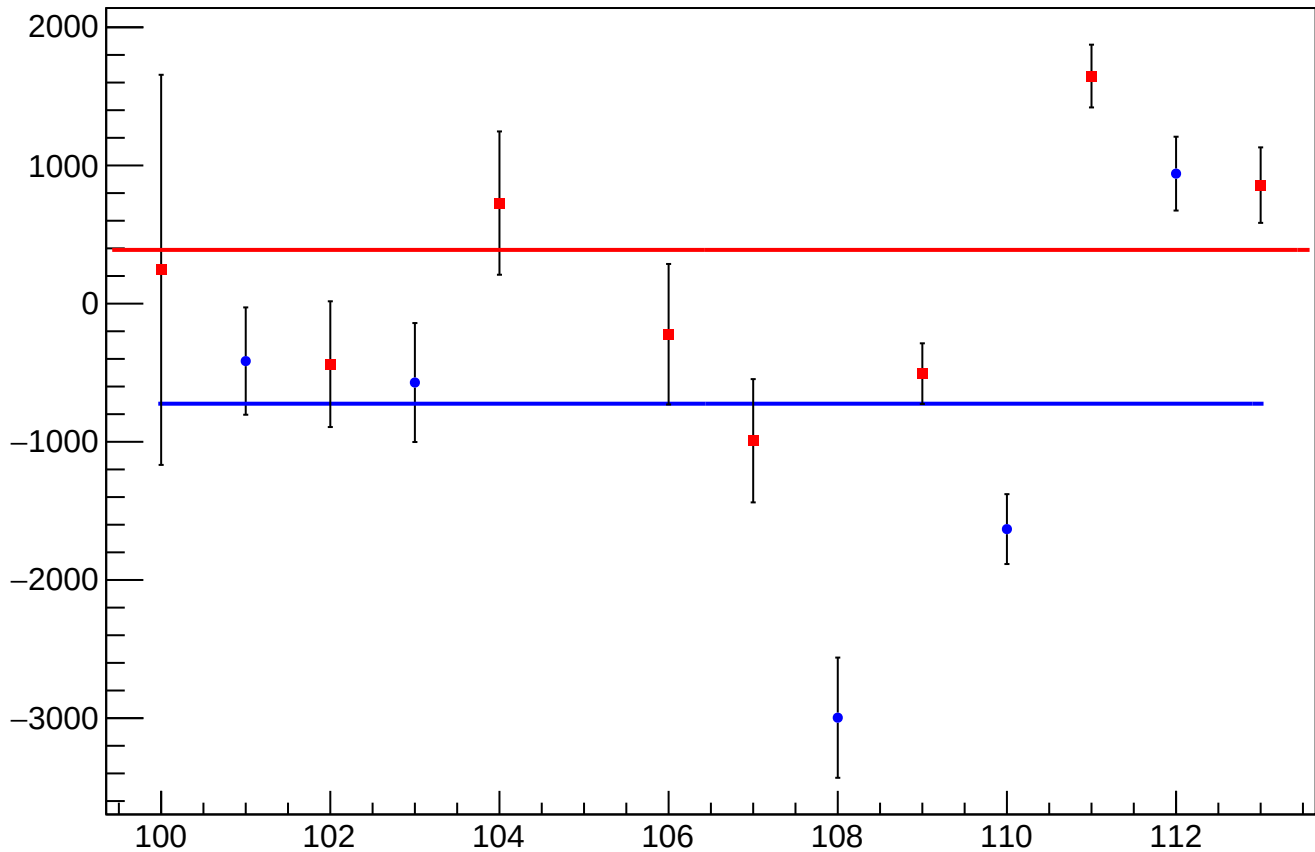
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 166.249 $\pm$ 0.054  $\chi^2$ /NDF: 1641808.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i07WS\_mean vs Slug



Right In: -724.235+/-145.937  $\chi^2/\text{NDF}$ : 79.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 388.862+/-118.301  $\chi^2/\text{NDF}$ : 65.0/7

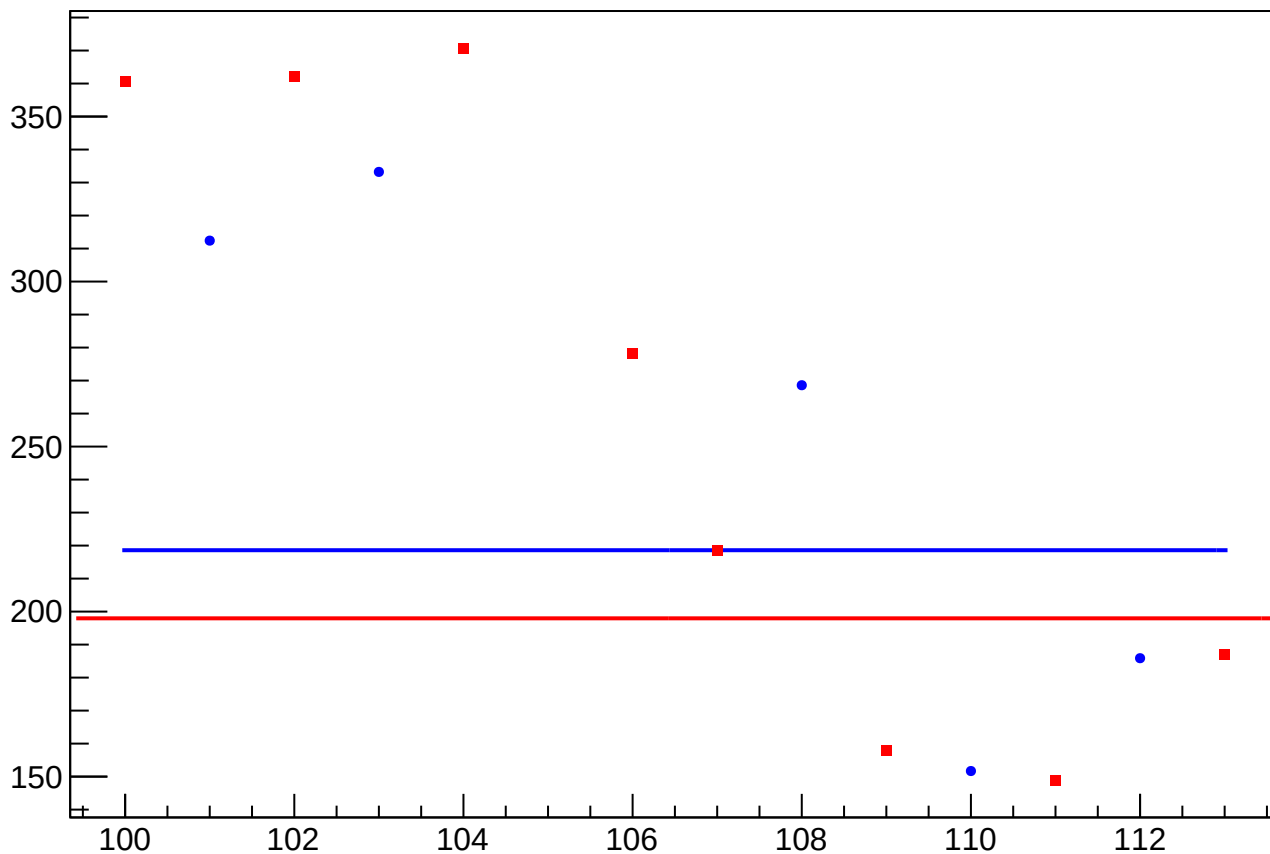
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -52.532+/-91.899  $\chi^2/\text{NDF}$ : 179.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i07WS\_rms vs Slug



Right In: 218.598 $\pm$ 0.103  $\chi^2$ /NDF: 454877.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 197.957 $\pm$ 0.084  $\chi^2$ /NDF: 724670.6/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

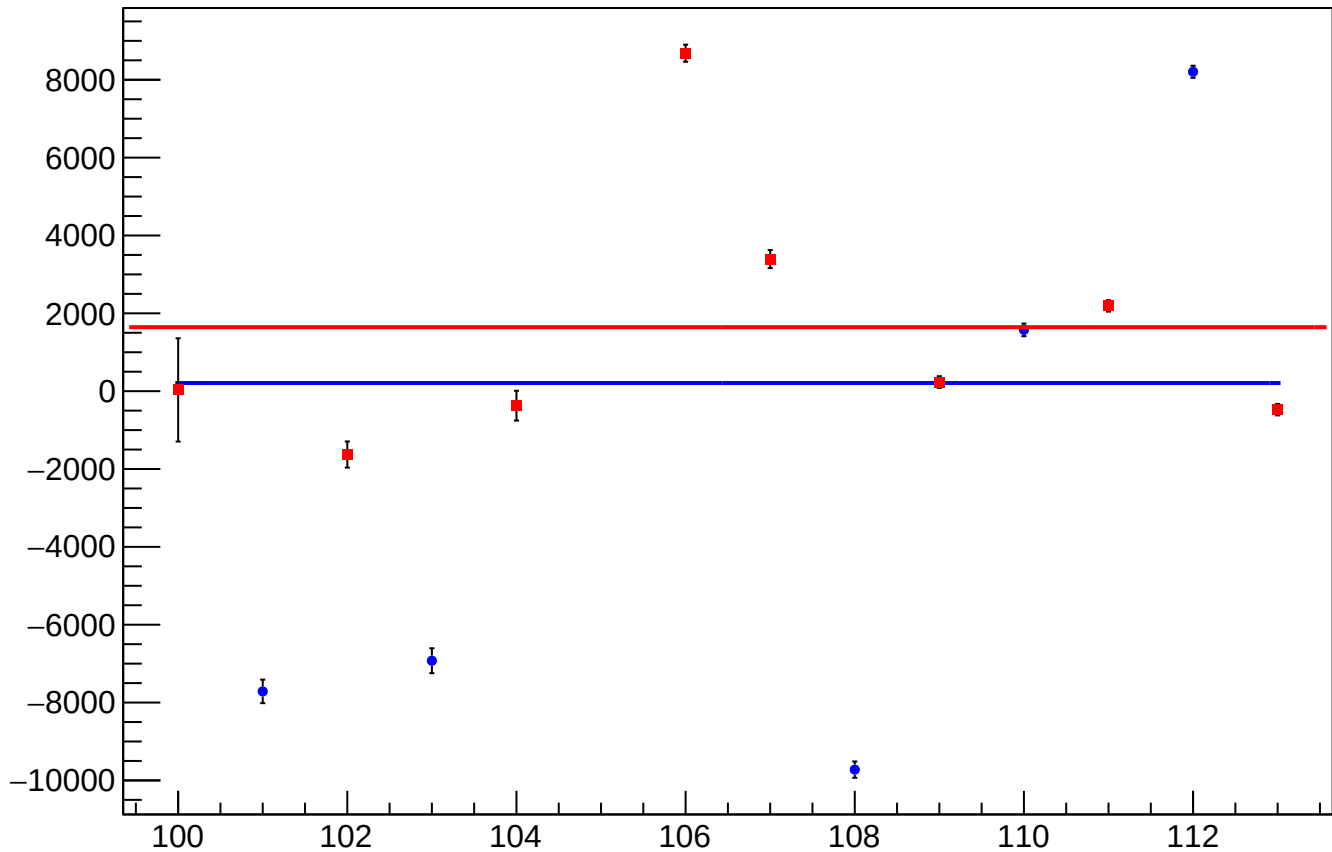
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 206.142 $\pm$ 0.065  $\chi^2$ /NDF: 1203693.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bpm1i02WS\_mean vs Slug



Right In: 209.495 $\pm$ 90.219  $\chi^2$ /NDF: 6143.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1643.804 $\pm$ 71.856  $\chi^2$ /NDF: 1526.8/7

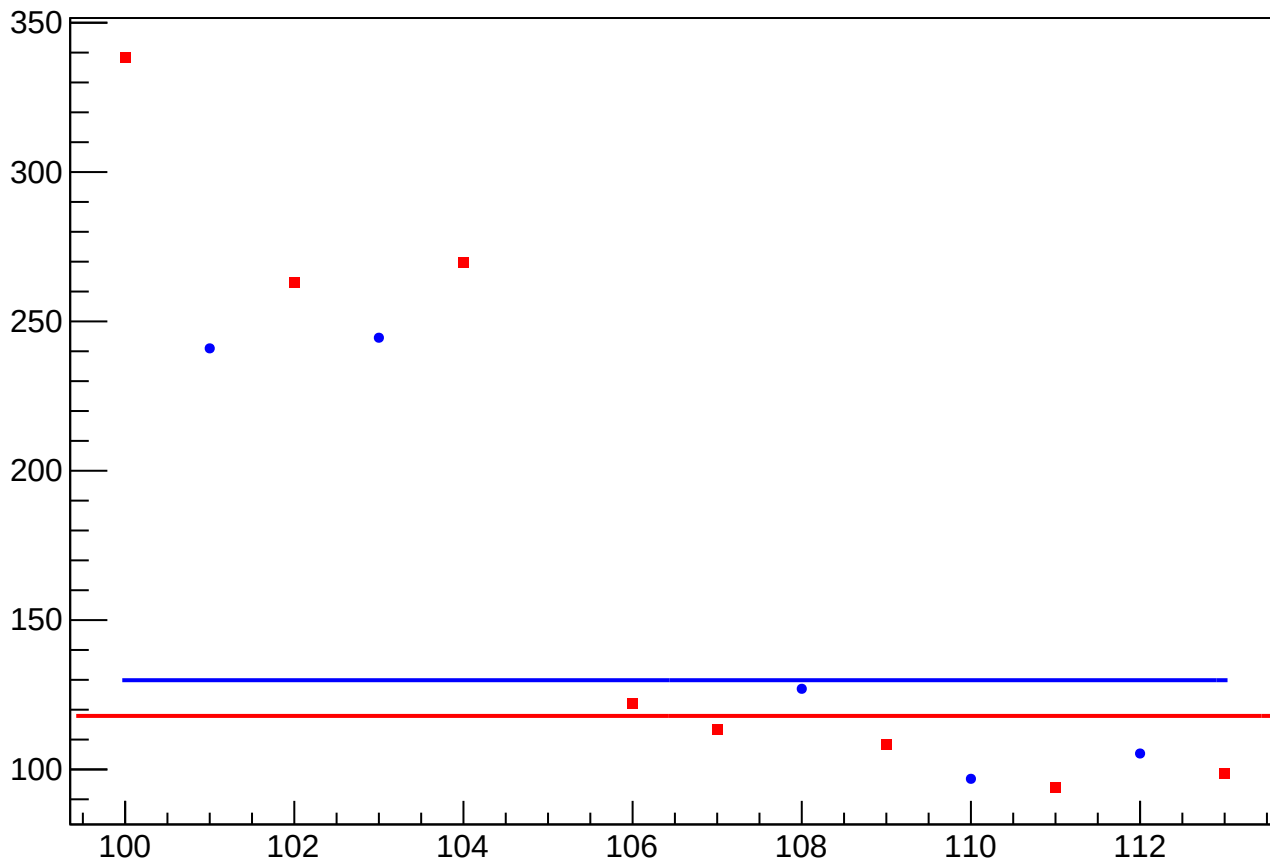
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1087.100 $\pm$ 56.207  $\chi^2$ /NDF: 7824.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i02WS\_rms vs Slug



Right In: 129.876 $\pm$ 0.064  $\chi^2$ /NDF: 660152.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 117.920 $\pm$ 0.051  $\chi^2$ /NDF: 841448.7/7

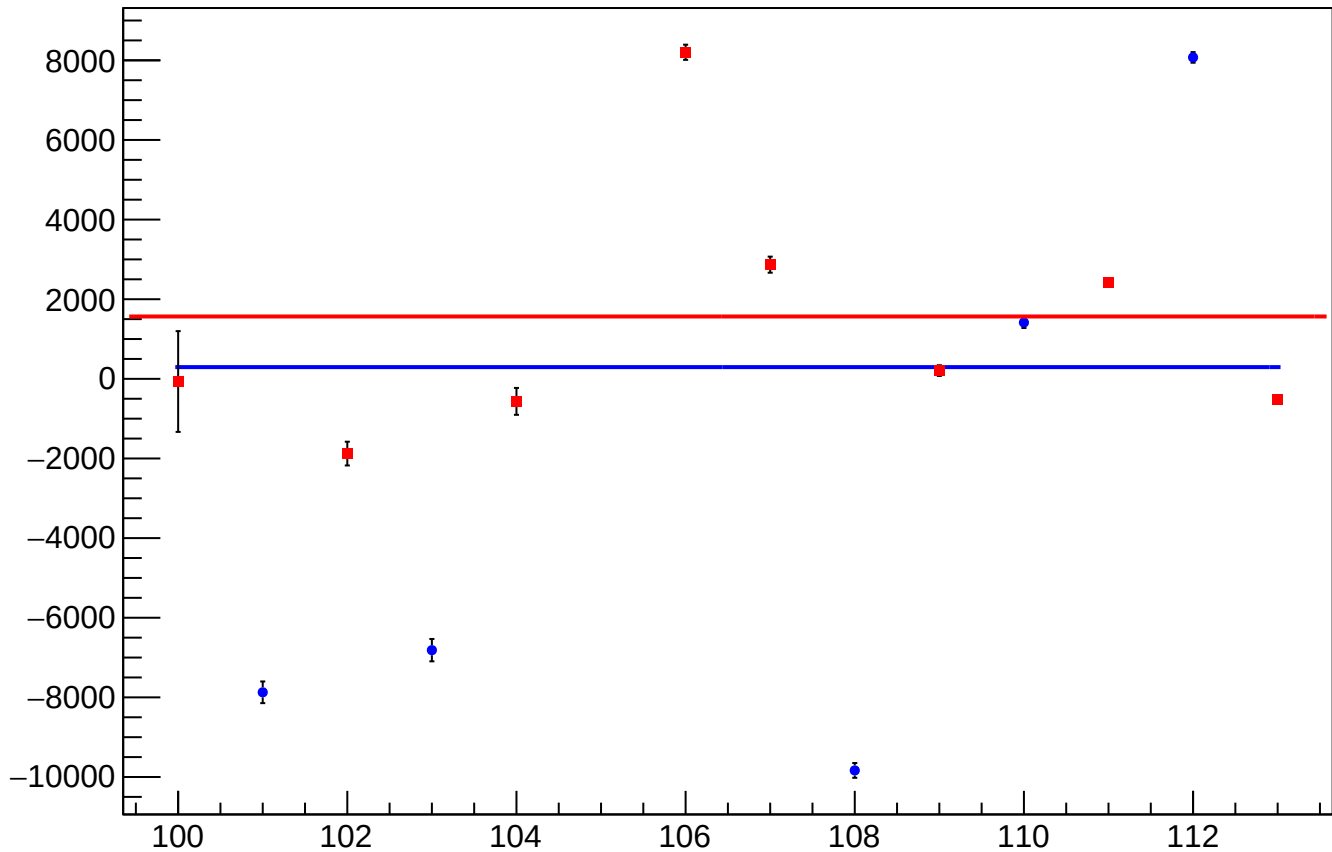
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 122.560 $\pm$ 0.040  $\chi^2$ /NDF: 1523093.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i04WS\_mean vs Slug



Right In: 294.814+/-78.152  $\chi^2/\text{NDF}$ : 7977.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1566.448+/-61.838  $\chi^2/\text{NDF}$ : 1868.8/7

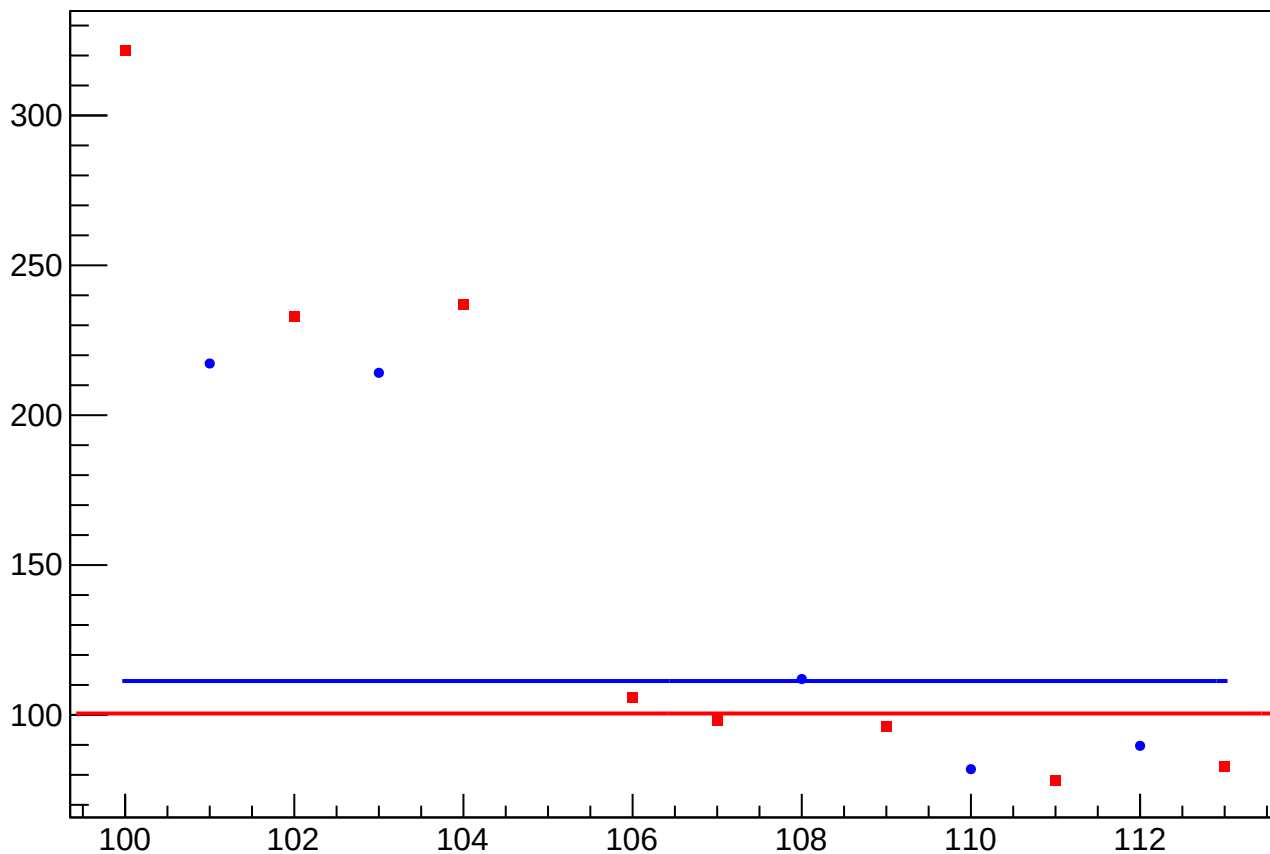
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1076.835+/-48.494  $\chi^2/\text{NDF}$ : 10009.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i04WS\_rms vs Slug



Right In: 111.310 $\pm$ 0.055  $\chi^2$ /NDF: 714310.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 100.479 $\pm$ 0.044  $\chi^2$ /NDF: 894028.6/7

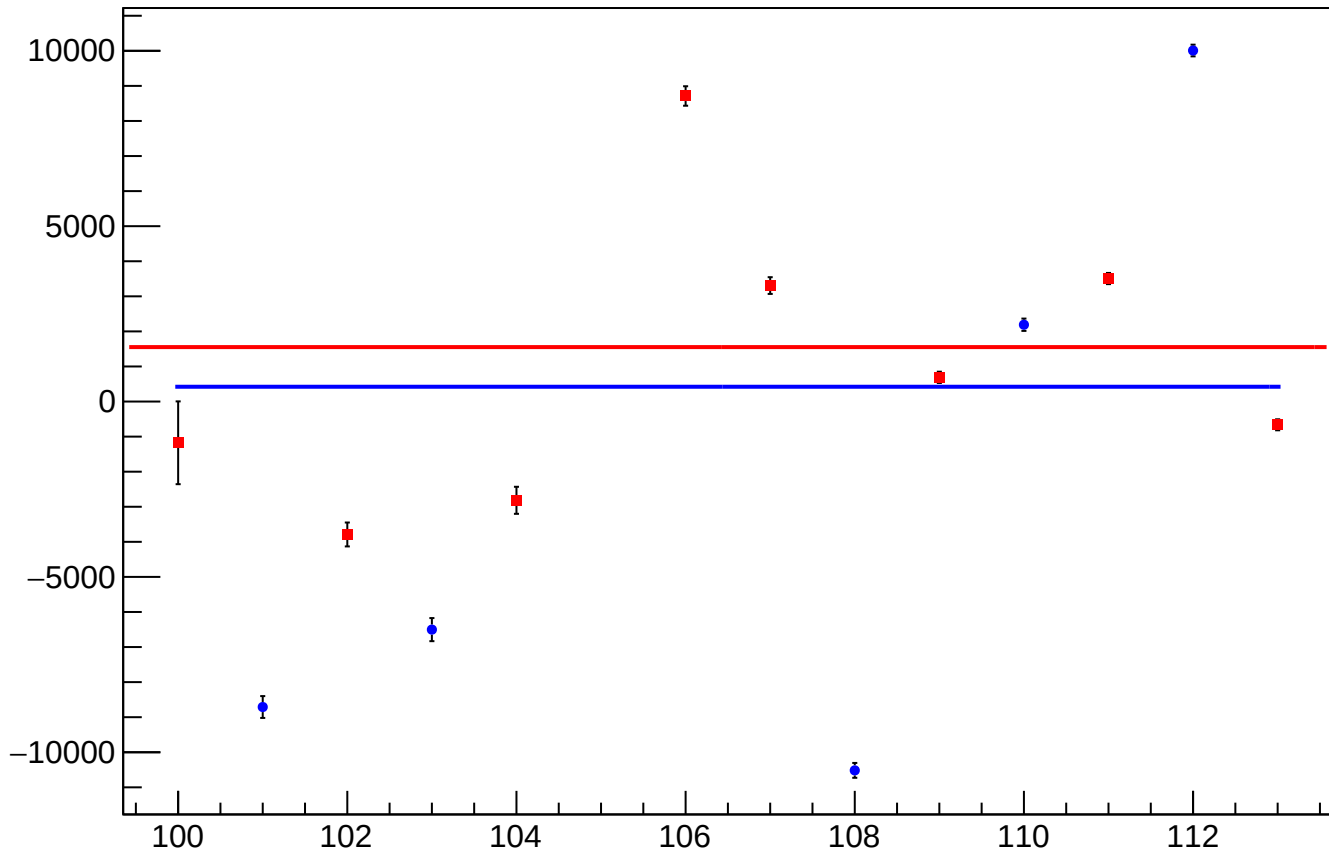
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 104.649 $\pm$ 0.034  $\chi^2$ /NDF: 1631959.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i06WS\_mean vs Slug



Right In: 421.958+/-95.245  $\chi^2/\text{NDF}$ : 7372.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1552.513+/-77.751  $\chi^2/\text{NDF}$ : 1477.4/7

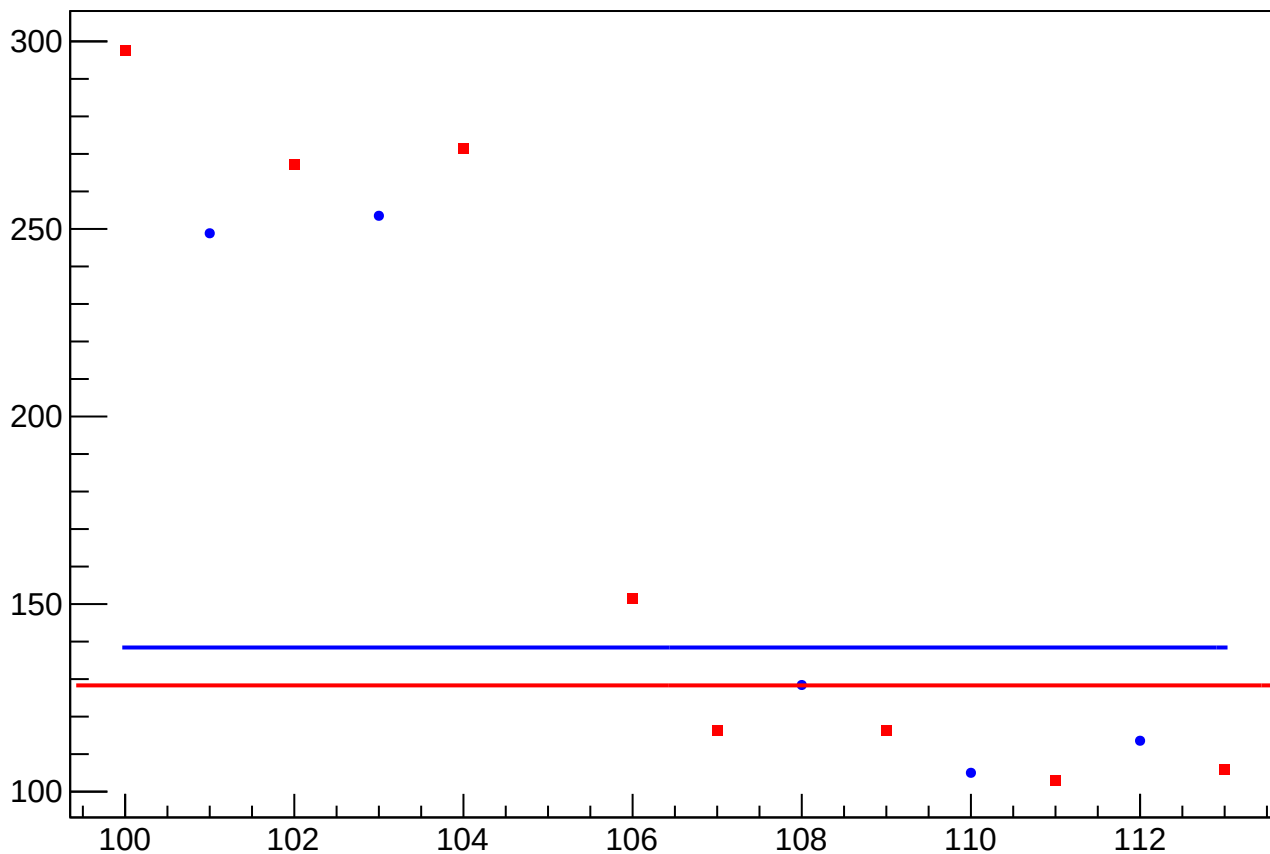
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1100.408+/-60.231  $\chi^2/\text{NDF}$ : 8934.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i06WS\_rms vs Slug



Right In: 138.426+/-0.067  $\chi^2/\text{NDF}$ : 617261.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 128.323+/-0.055  $\chi^2/\text{NDF}$ : 769609.1/7

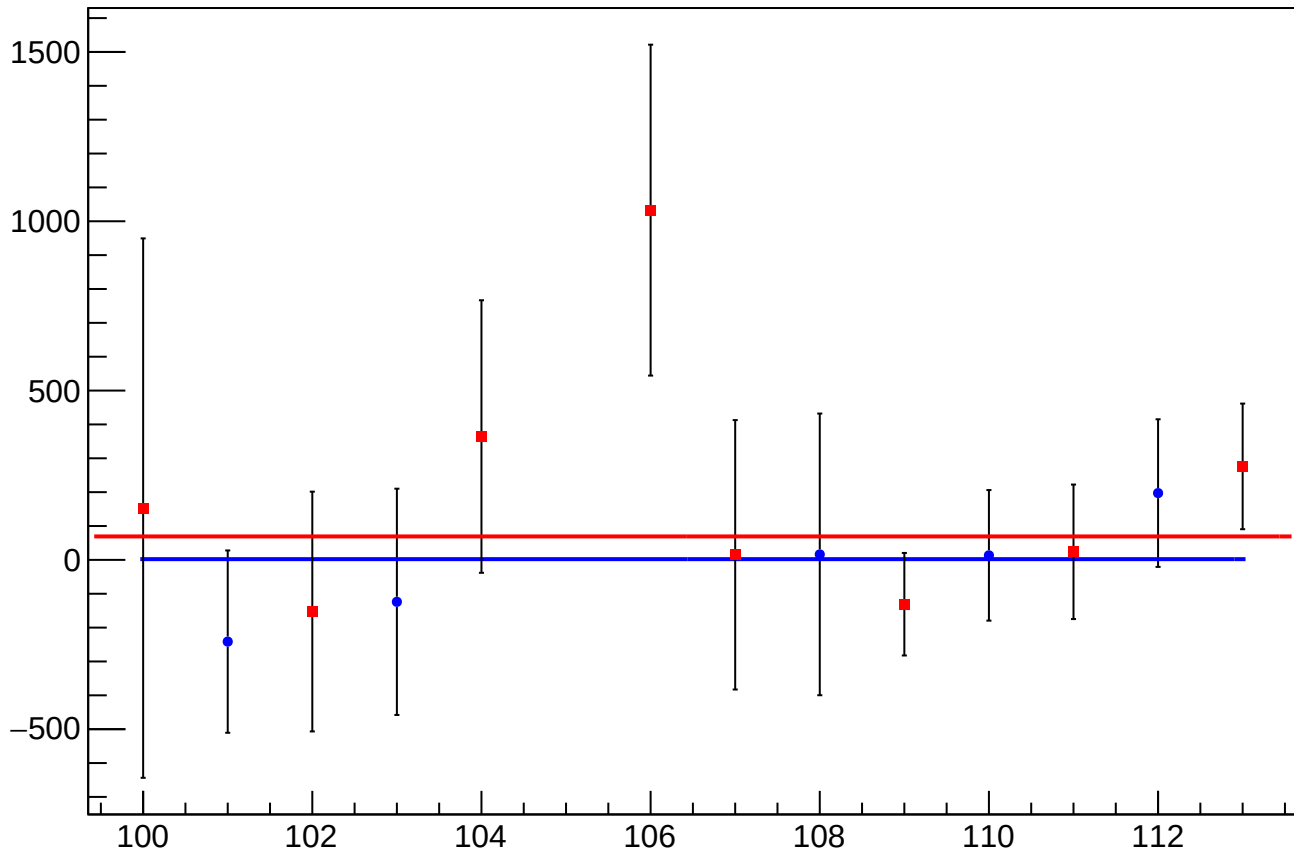
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 132.363+/-0.043  $\chi^2/\text{NDF}$ : 1400374.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_2an\_us\_an\_ds\_avg\_mean vs Slug



Right In: 2.154+/-114.349  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.289+/-89.708  $\chi^2/\text{NDF}$ : 7.9/7

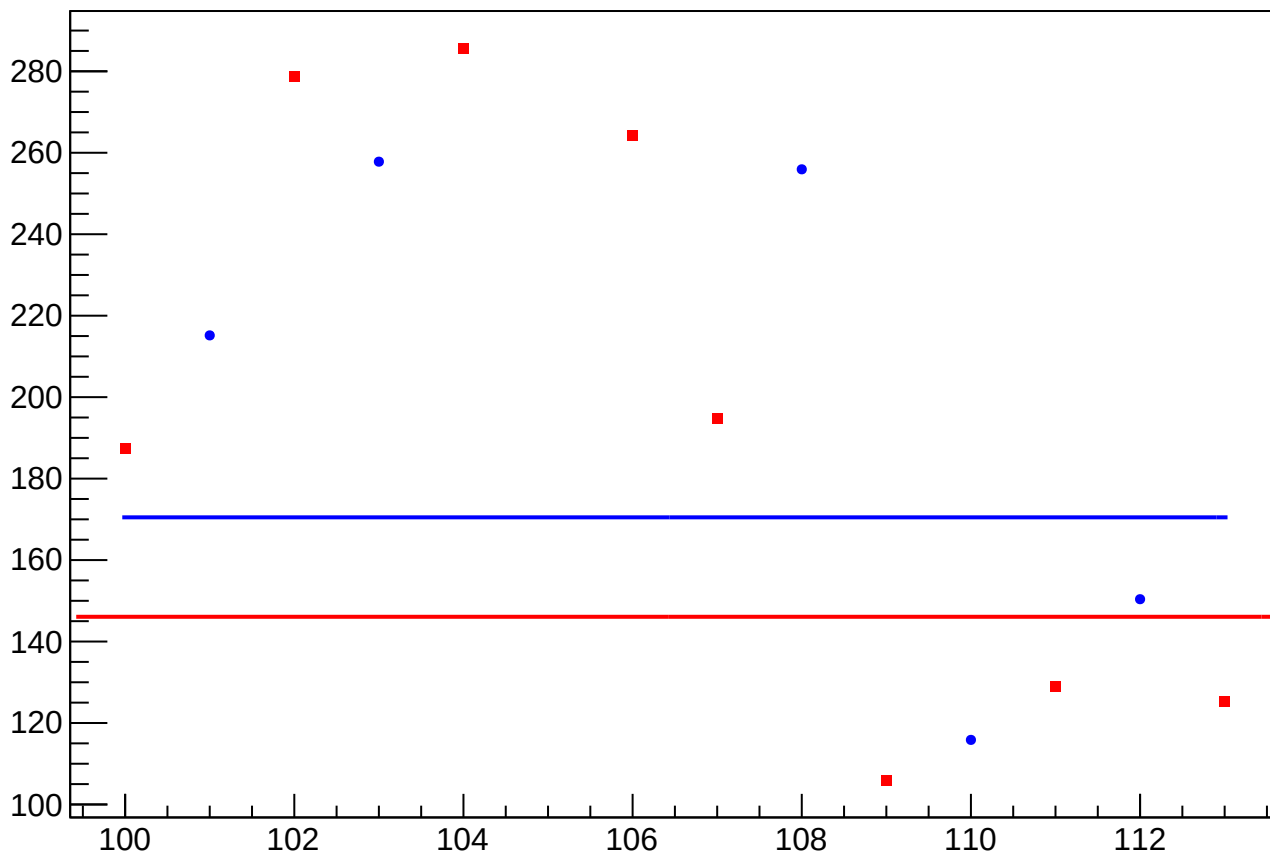
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.712+/-70.580  $\chi^2/\text{NDF}$ : 9.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_2an\_us\_an\_ds\_avg\_rms vs Slug



Right In: 170.493 $\pm$ 0.081  $\chi^2$ /NDF: 453658.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 146.078 $\pm$ 0.063  $\chi^2$ /NDF: 854021.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

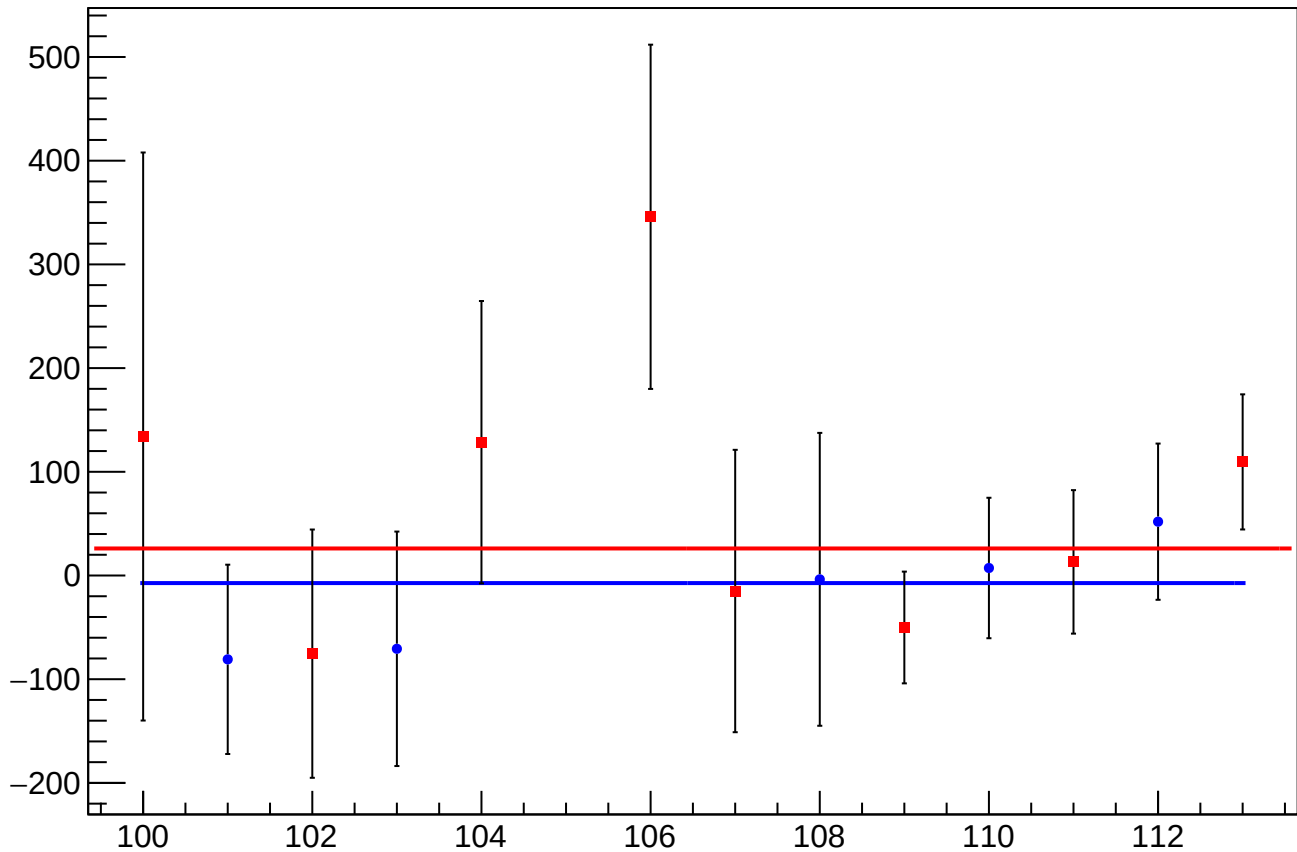
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 155.380 $\pm$ 0.050  $\chi^2$ /NDF: 1364117.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bcm\_2an\_us\_an\_ds\_dd\_mean vs Slug



Right In: -7.305+/-39.444  $\chi^2/\text{NDF}$ : 1.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26.068+/-31.369  $\chi^2/\text{NDF}$ : 8.9/7

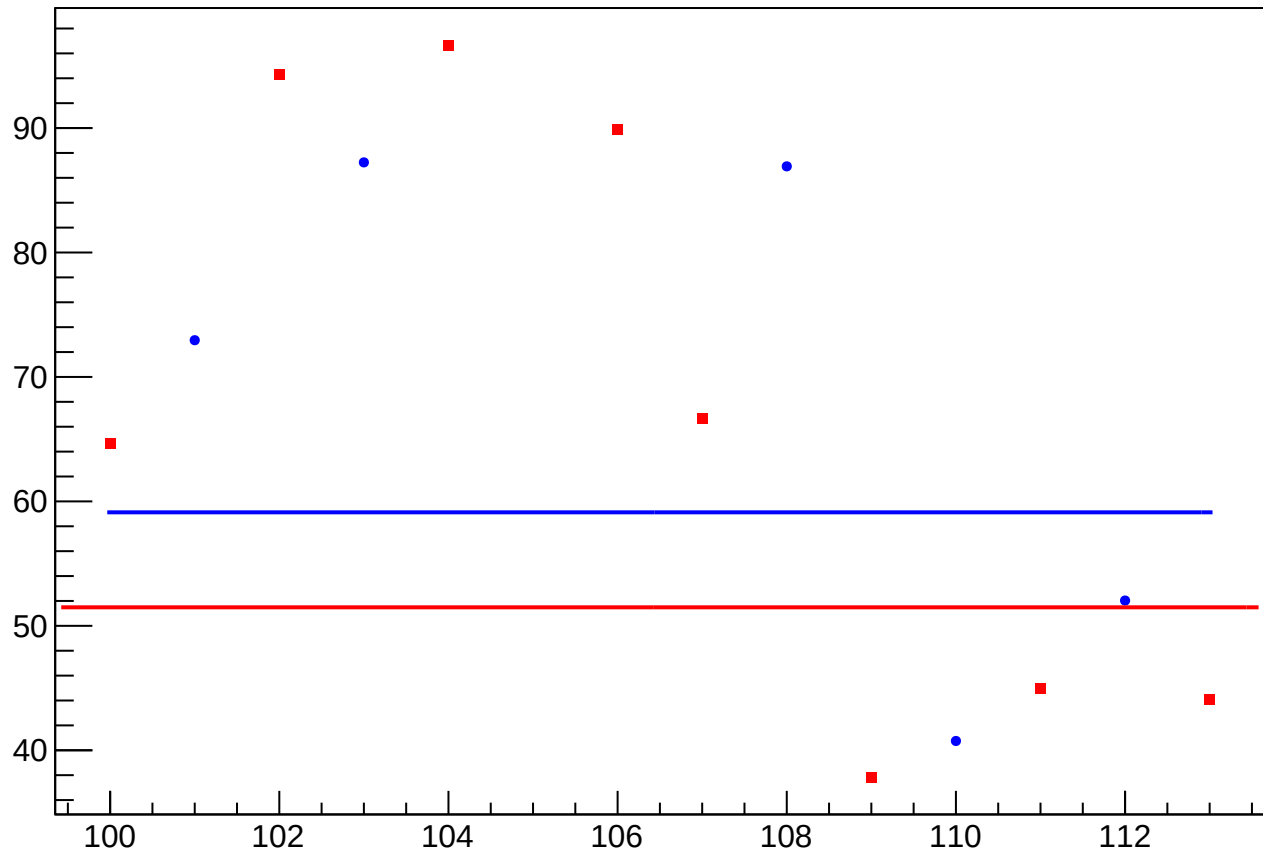
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.138+/-24.551  $\chi^2/\text{NDF}$ : 11.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_2an\_us\_an\_ds\_dd\_rms vs Slug



Right In: 59.121 $\pm$ 0.028  $\chi^2$ /NDF: 412114.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 51.488 $\pm$ 0.022  $\chi^2$ /NDF: 783792.9/7

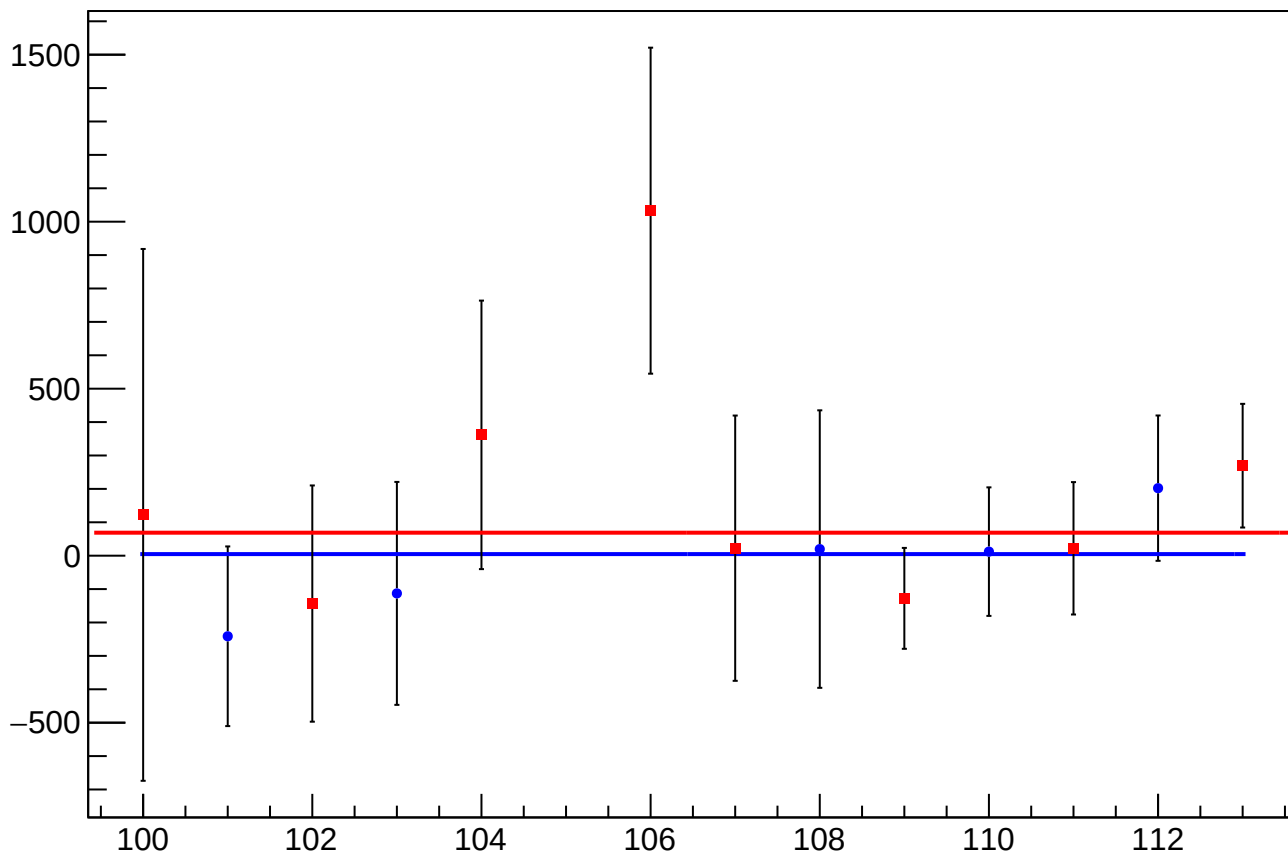
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 54.445 $\pm$ 0.017  $\chi^2$ /NDF: 1241782.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_us\_an\_ds\_avg\_mean vs Slug



Right In: 4.762+/-114.160  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 68.848+/-89.530  $\chi^2/\text{NDF}$ : 7.7/7

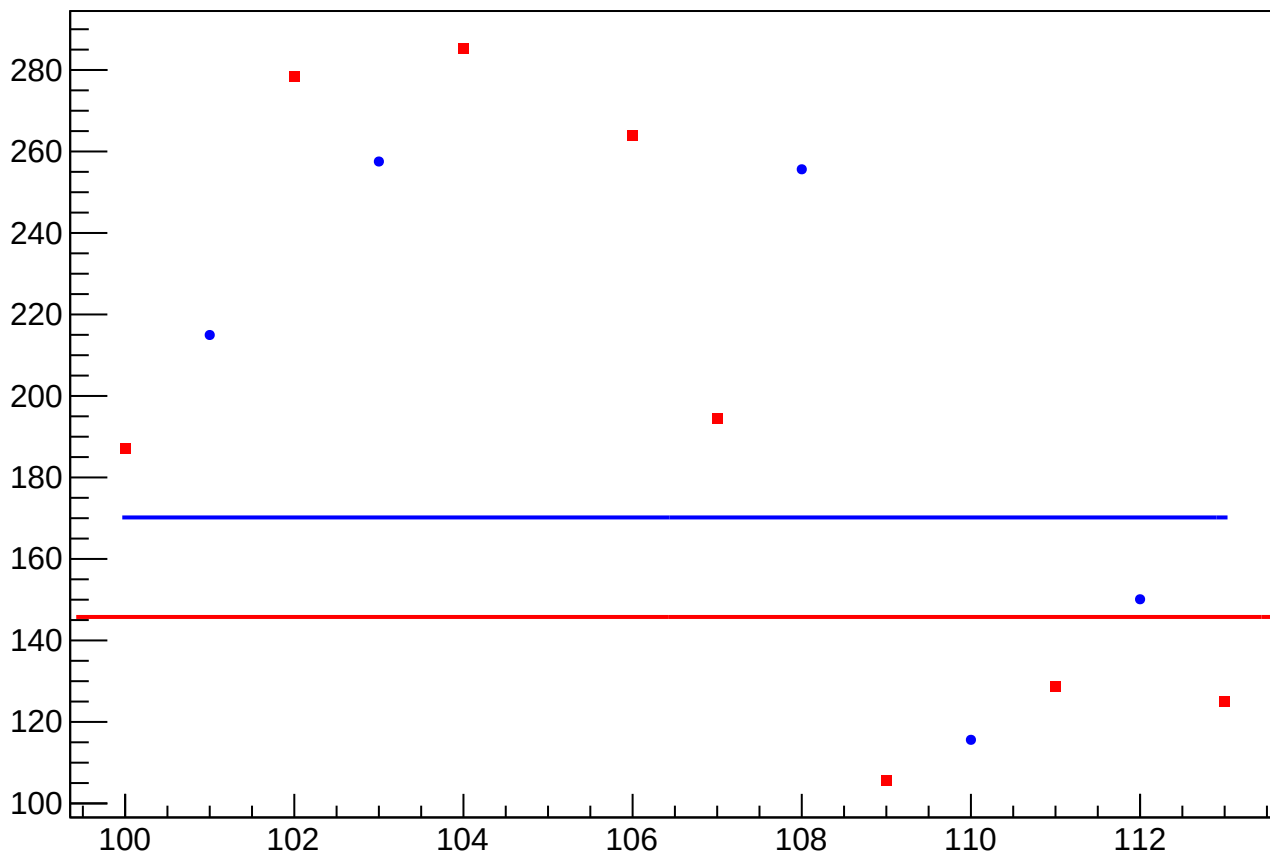
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 44.443+/-70.449  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_an\_ds\_avg\_rms vs Slug



Right In: 170.186+/-0.081  $\chi^2/\text{NDF}$ : 454971.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 145.761+/-0.063  $\chi^2/\text{NDF}$ : 855824.9/7

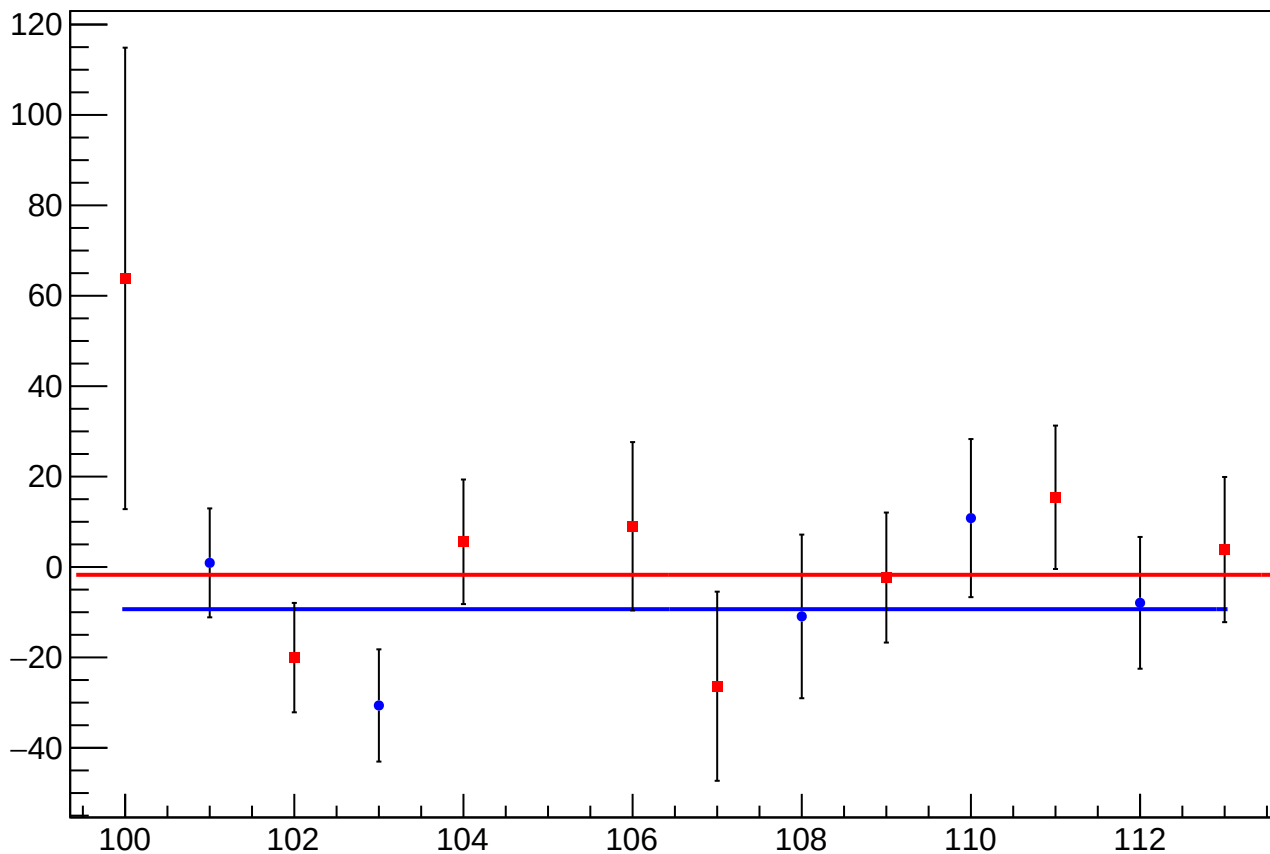
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 155.063+/-0.050  $\chi^2/\text{NDF}$ : 1367479.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_us\_an\_ds\_dd\_mean vs Slug



Right In: -9.328+/-6.401  $\chi^2/\text{NDF}$ : 5.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.724+/-5.741  $\chi^2/\text{NDF}$ : 7.2/7

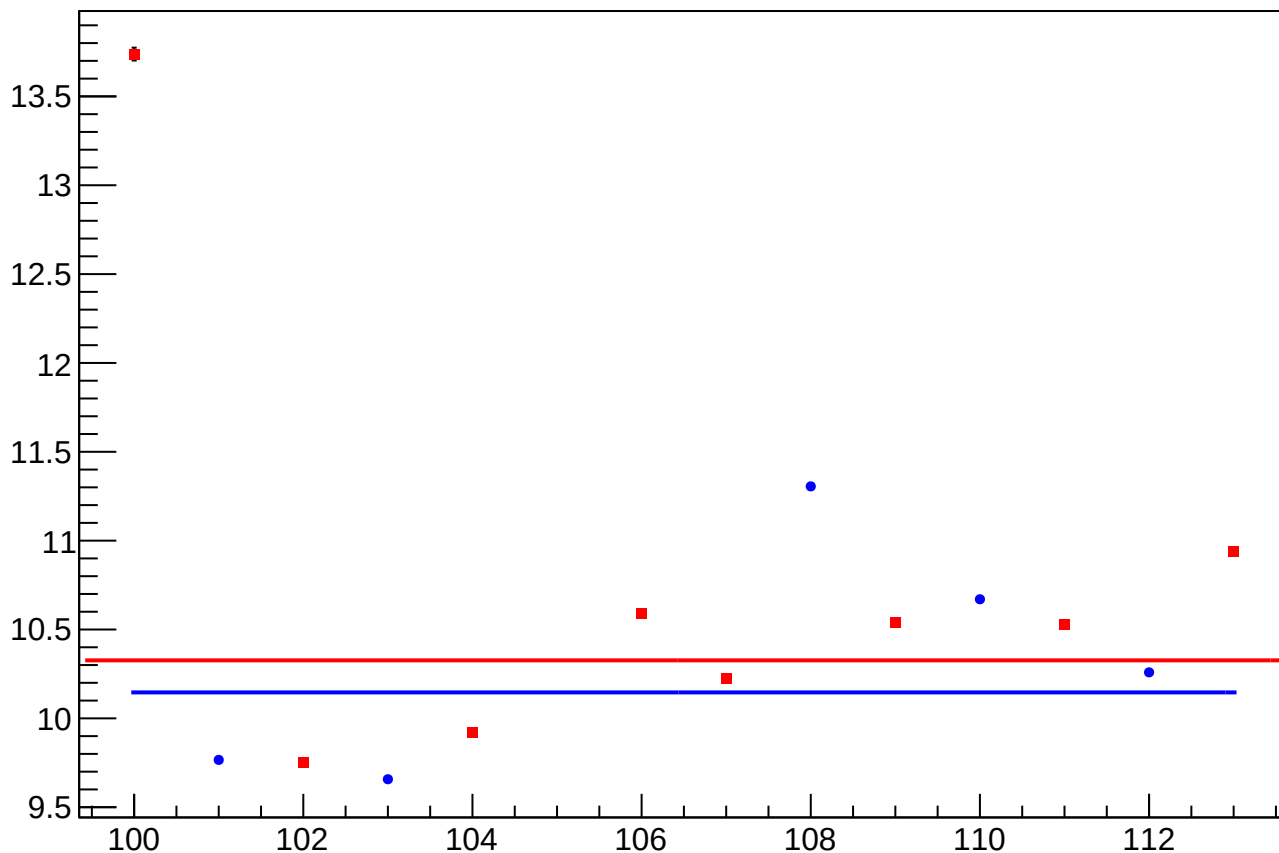
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.114+/-4.274  $\chi^2/\text{NDF}$ : 13.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_an\_ds\_dd\_rms vs Slug



Right In: 10.146 $\pm$ 0.005  $\chi^2$ /NDF: 15210.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.326 $\pm$ 0.004  $\chi^2$ /NDF: 19294.2/7

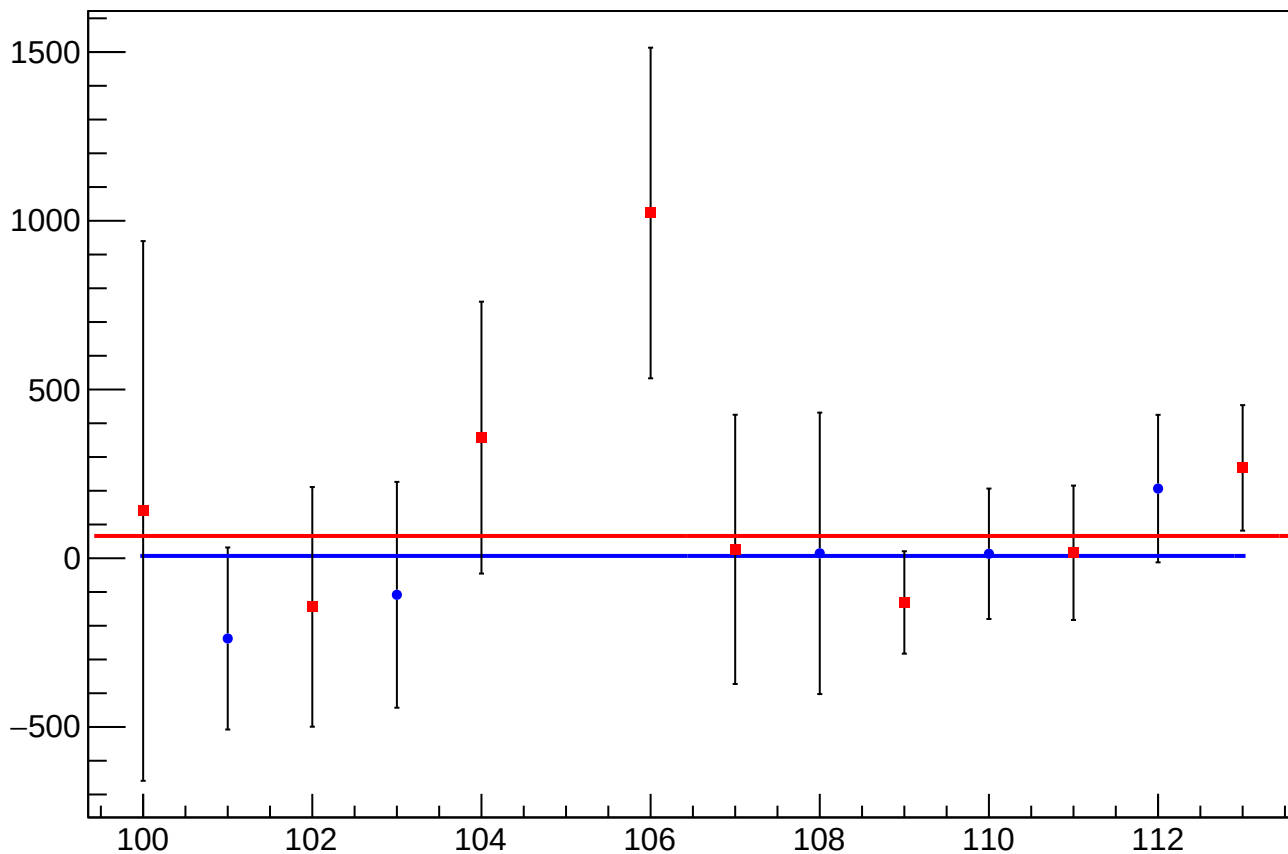
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.246 $\pm$ 0.003  $\chi^2$ /NDF: 35384.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_us\_an\_ds3\_avg\_mean vs Slug



Right In: 6.914+/-114.597  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 66.056+/-89.914  $\chi^2/\text{NDF}$ : 7.6/7

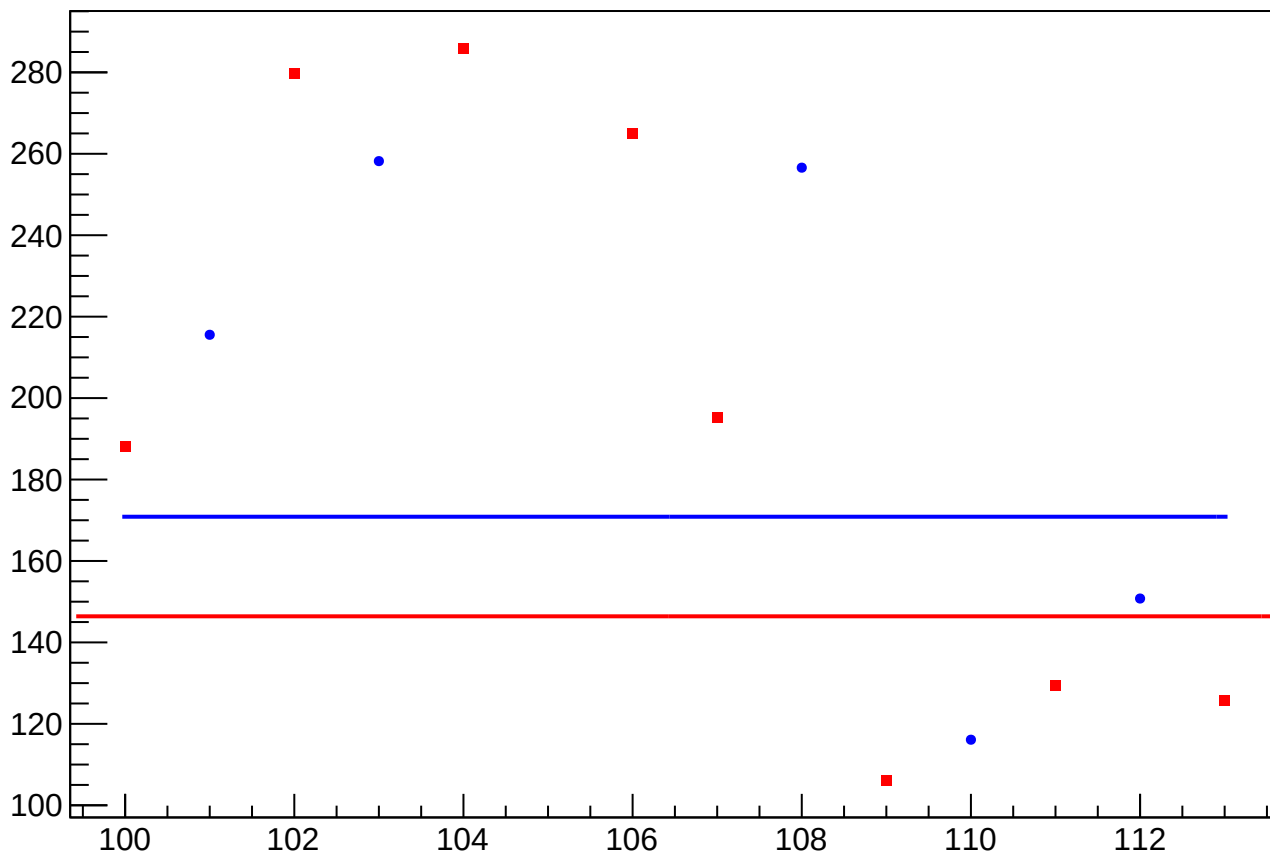
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.520+/-70.739  $\chi^2/\text{NDF}$ : 9.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_an\_ds3\_avg\_rms vs Slug



Right In: 170.866 $\pm$ 0.081  $\chi^2$ /NDF: 453191.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 146.407 $\pm$ 0.064  $\chi^2$ /NDF: 854143.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

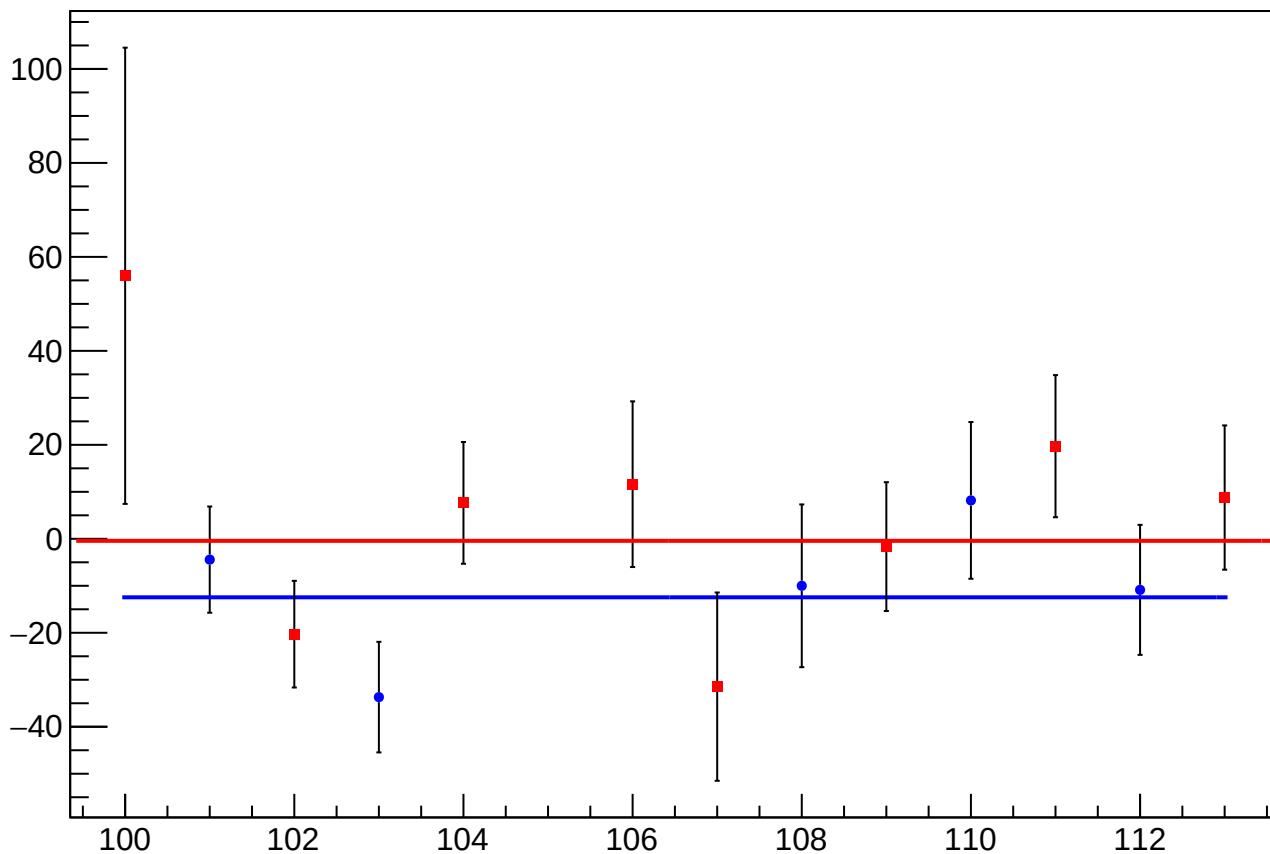
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 155.727 $\pm$ 0.050  $\chi^2$ /NDF: 1363726.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bcm\_an\_us\_an\_ds3\_dd\_mean vs Slug



Right In:  $-12.452 \pm 6.063$   $\chi^2/\text{NDF}$ : 5.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.431 \pm 5.440$   $\chi^2/\text{NDF}$ : 9.8/7

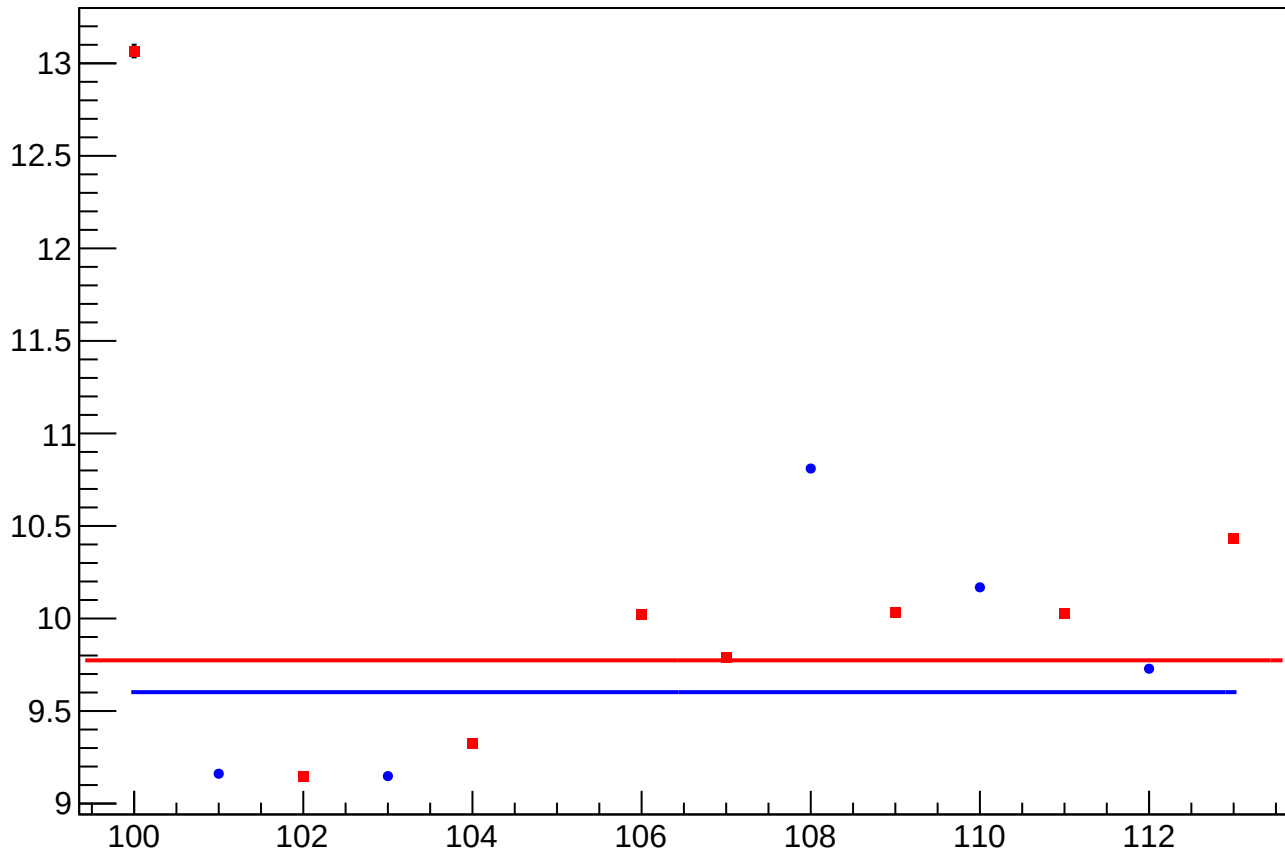
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.792 \pm 4.049$   $\chi^2/\text{NDF}$ : 17.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_an\_ds3\_dd\_rms vs Slug



Right In: 9.602 $\pm$ 0.004  $\chi^2$ /NDF: 18223.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 9.774 $\pm$ 0.004  $\chi^2$ /NDF: 23054.8/7

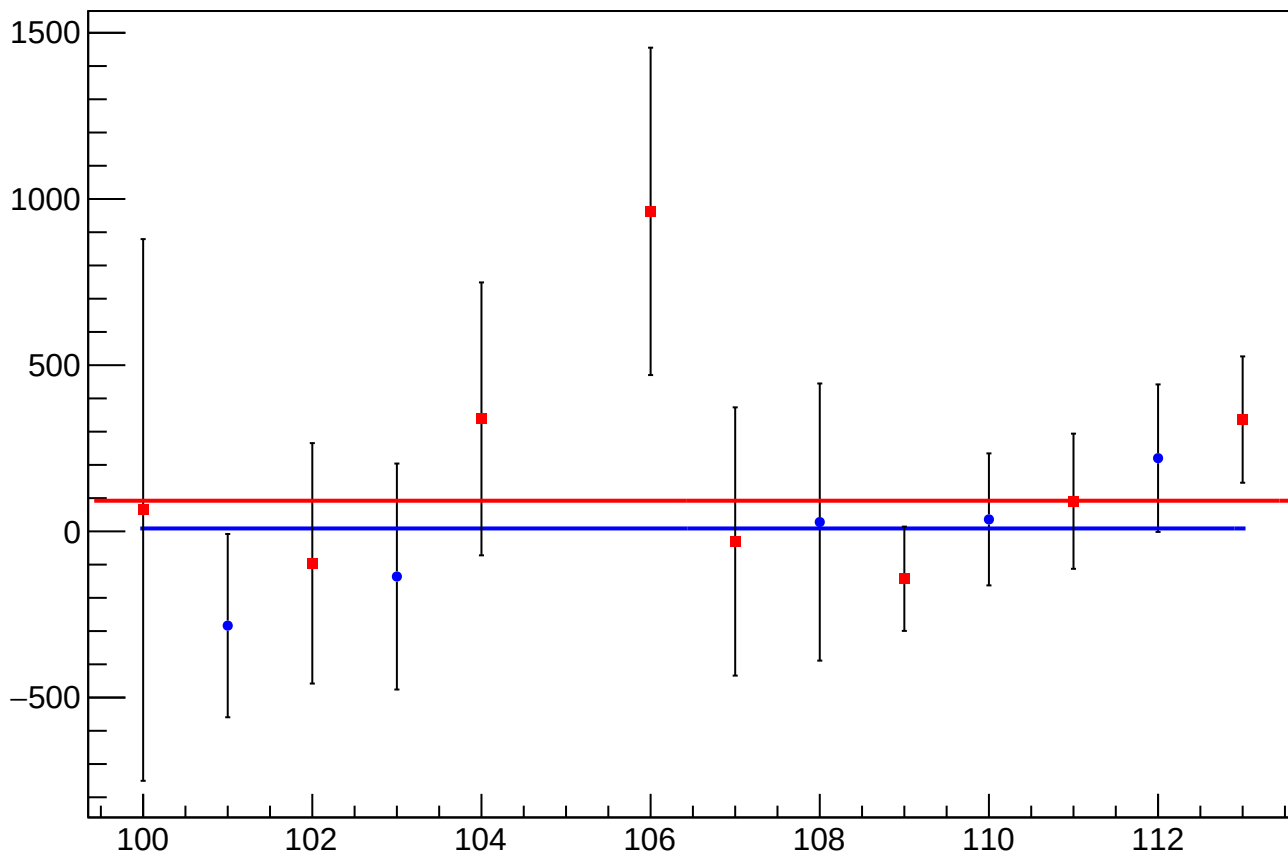
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.697 $\pm$ 0.003  $\chi^2$ /NDF: 42168.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_dg\_ds\_avg\_mean vs Slug



Right In: 8.767 $\pm$ 116.857  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 92.201 $\pm$ 92.111  $\chi^2$ /NDF: 7.7/7

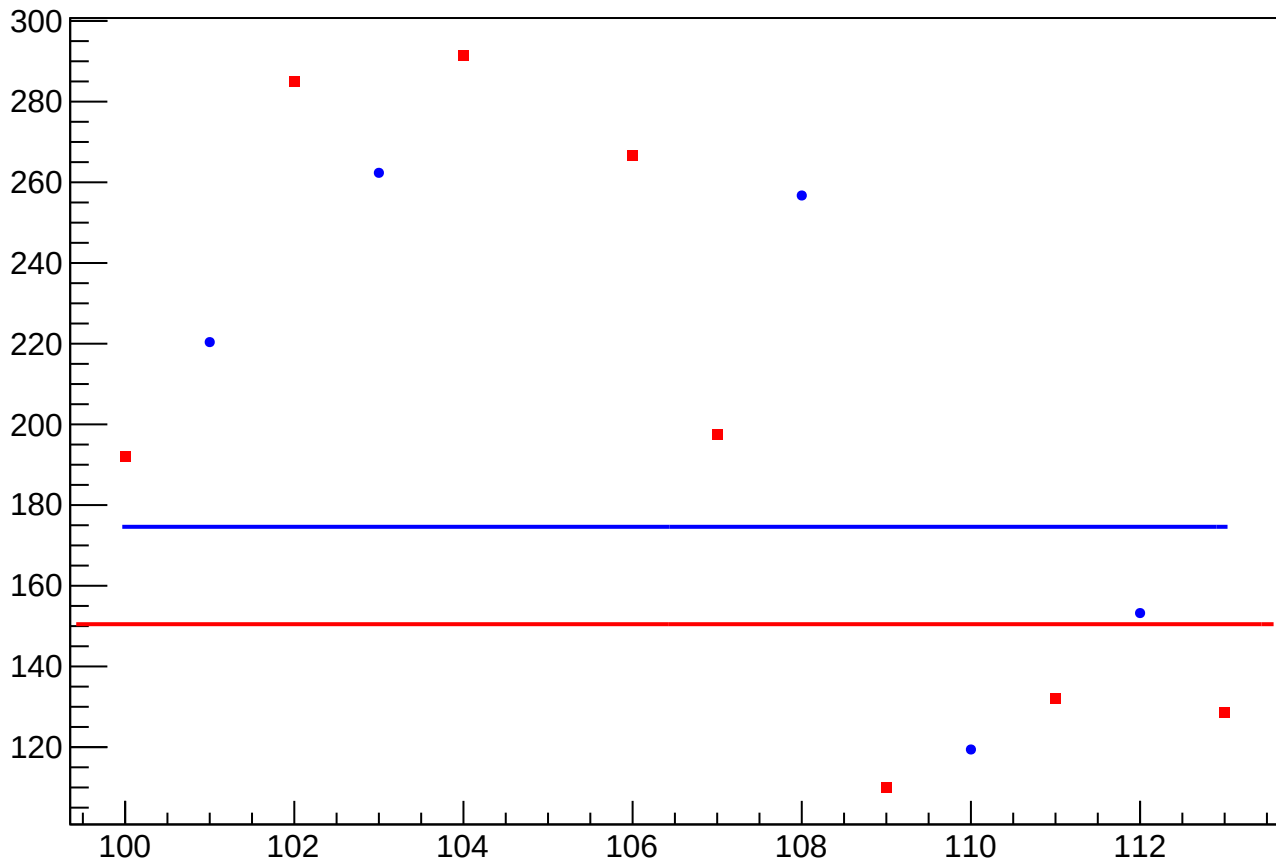
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 60.228 $\pm$ 72.340  $\chi^2$ /NDF: 10.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_dg\_ds\_avg\_rms vs Slug



Right In: 174.614 $\pm$ 0.083  $\chi^2$ /NDF: 439071.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 150.474 $\pm$ 0.065  $\chi^2$ /NDF: 831242.7/7

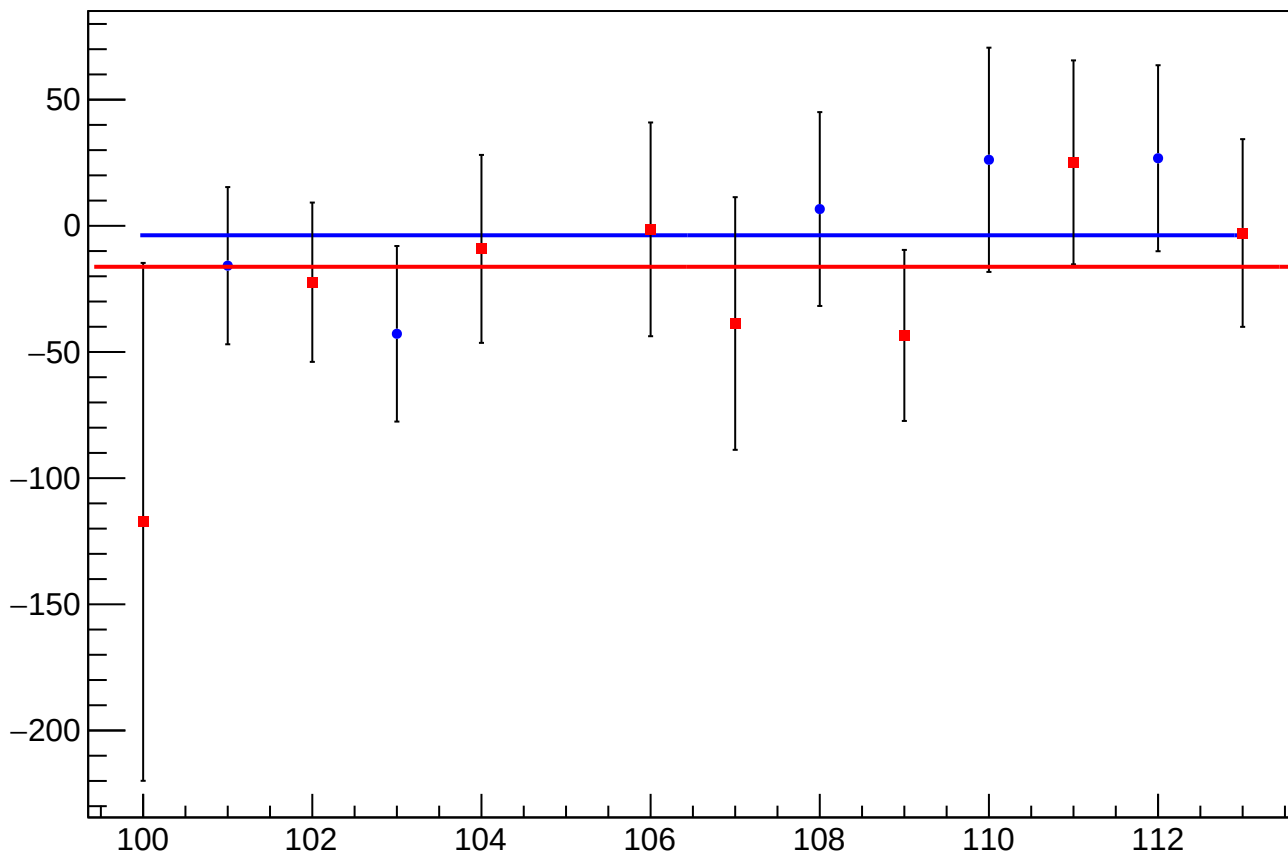
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 159.725 $\pm$ 0.051  $\chi^2$ /NDF: 1322954.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_dg\_ds\_dd\_mean vs Slug



Right In:  $-3.746 \pm 16.272$   $\chi^2/\text{NDF}$ : 2.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-16.231 \pm 14.168$   $\chi^2/\text{NDF}$ : 3.2/7

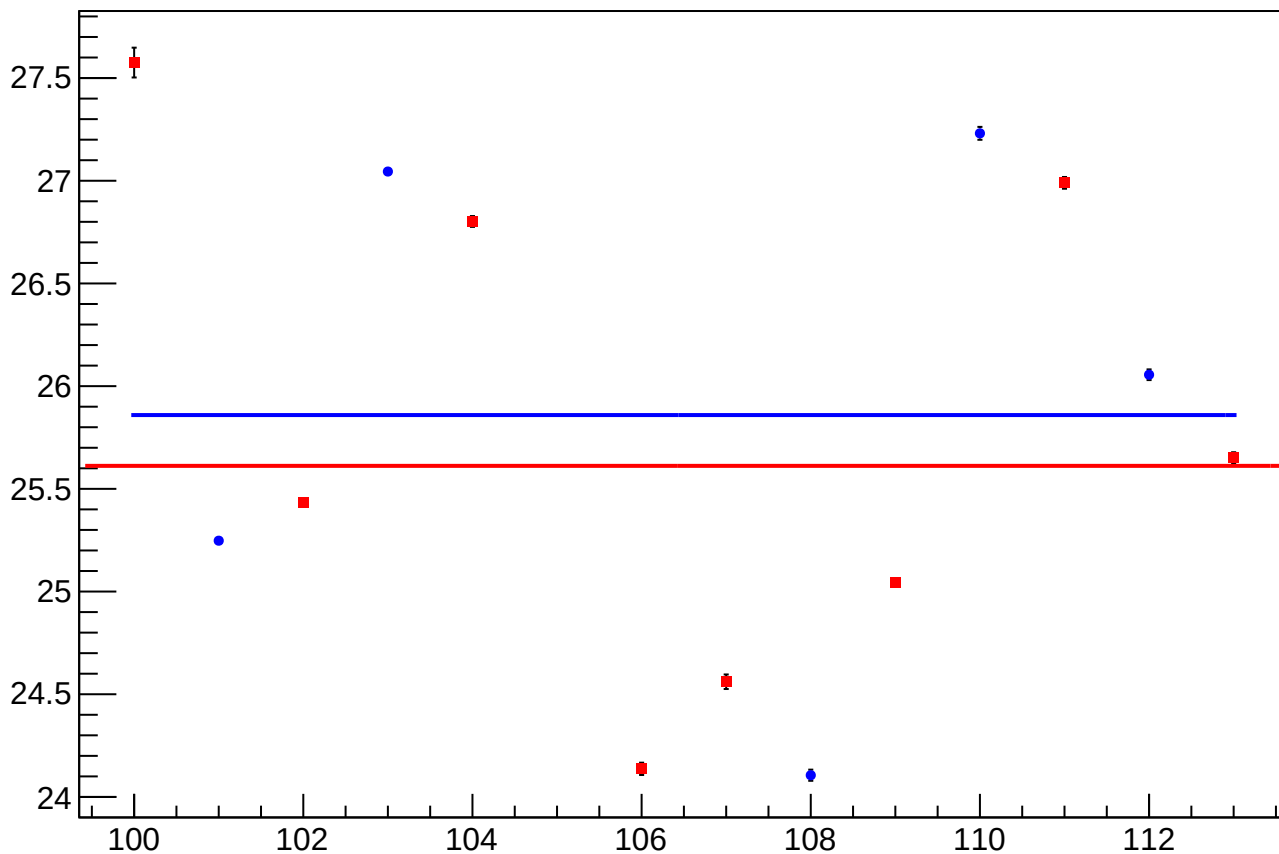
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-10.847 \pm 10.685$   $\chi^2/\text{NDF}$ : 6.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_dg\_ds\_dd\_rms vs Slug



Right In: 25.859 $\pm$ 0.012  $\chi^2$ /NDF: 9223.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 25.612 $\pm$ 0.010  $\chi^2$ /NDF: 9035.3/7

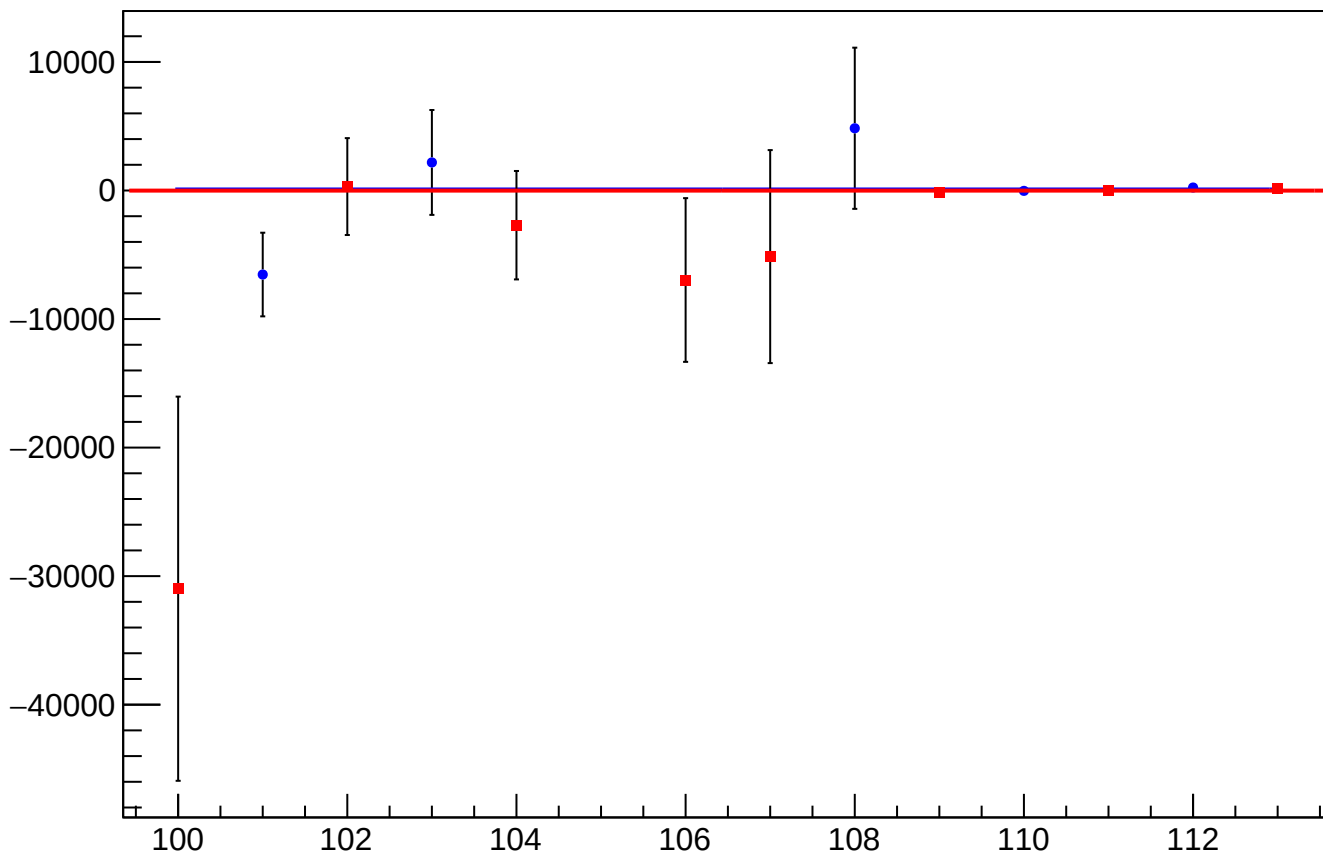
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.719 $\pm$ 0.008  $\chi^2$ /NDF: 18521.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_cav4cQ\_an\_ds\_avg\_mean vs Slug



Right In: 79.770+/-144.509  $\chi^2/\text{NDF}$ : 5.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7.868+/-113.551  $\chi^2/\text{NDF}$ : 7.6/7

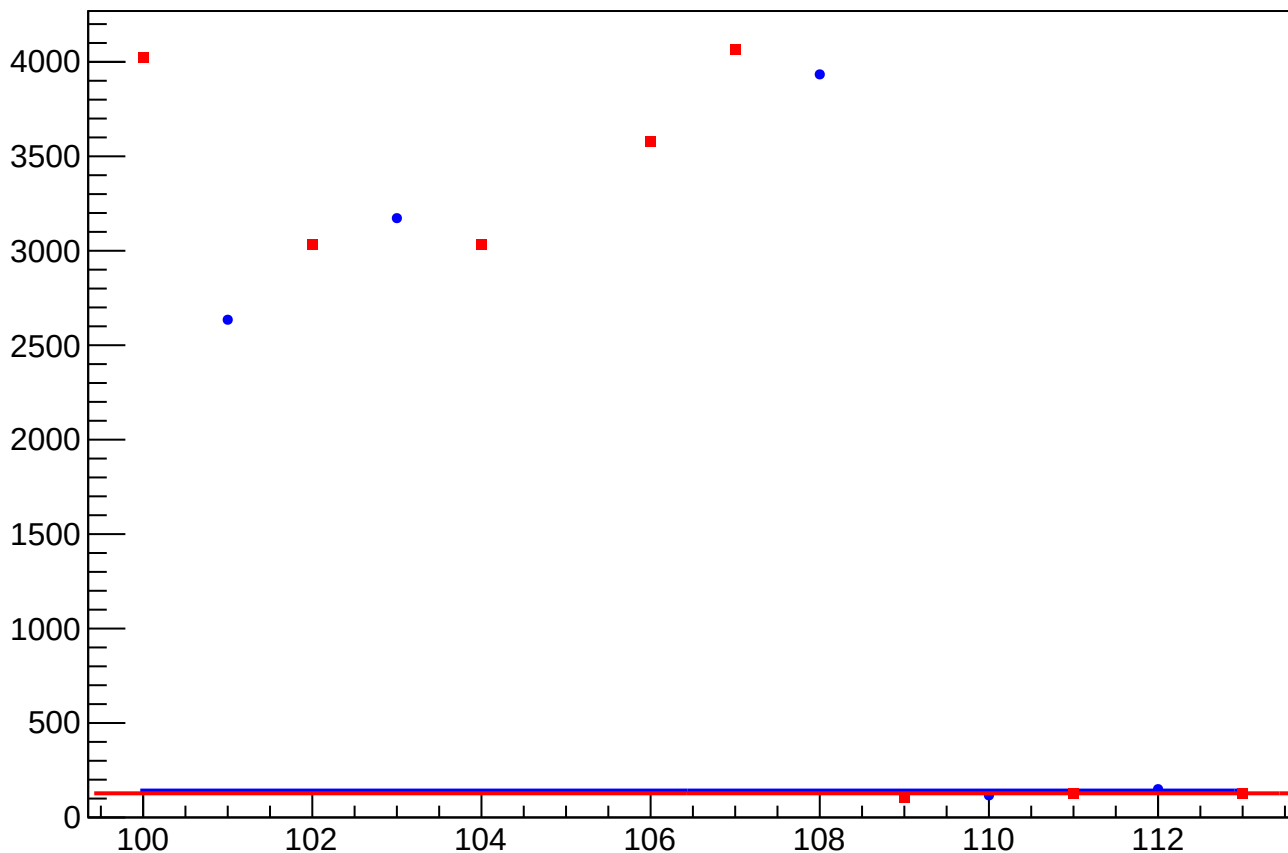
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.586+/-89.284  $\chi^2/\text{NDF}$ : 13.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_cav4cQ\_an\_ds\_avg\_rms vs Slug



Right In: 142.301 $\pm$ 0.102  $\chi^2$ /NDF: 3045820.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.765 $\pm$ 0.080  $\chi^2$ /NDF: 3335604.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

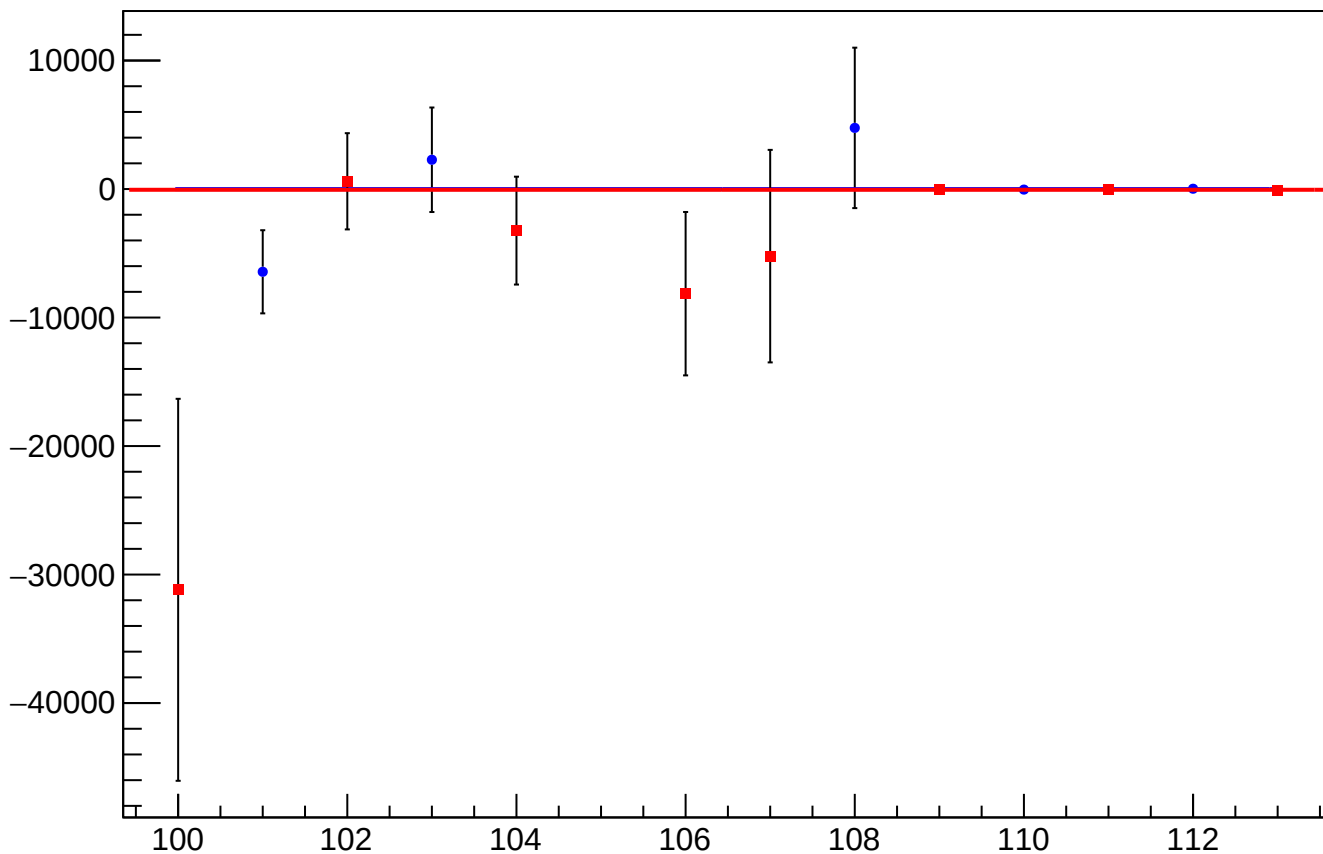
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 133.314 $\pm$ 0.063  $\chi^2$ /NDF: 6393937.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_bcm\_cav4cQ\_an\_ds\_dd\_mean vs Slug



Right In: -4.797 $\pm$ 28.659  $\chi^2$ /NDF: 6.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -57.599 $\pm$ 24.530  $\chi^2$ /NDF: 9.8/7

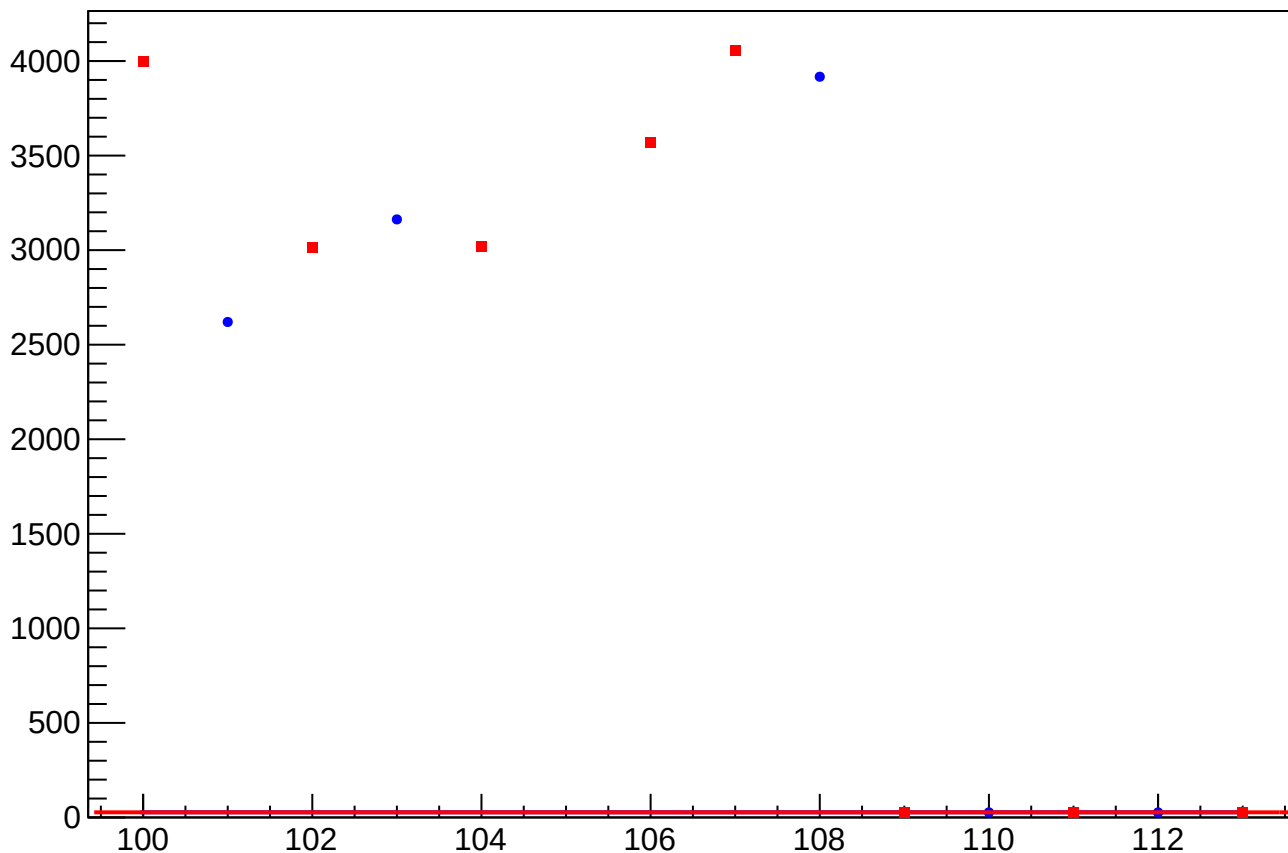
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -35.272 $\pm$ 18.636  $\chi^2$ /NDF: 18.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_cav4cQ\_an\_ds\_dd\_rms vs Slug



Right In: 27.255+/-0.020  $\chi^2/\text{NDF}$ : 3250623.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27.126+/-0.017  $\chi^2/\text{NDF}$ : 3531221.3/7

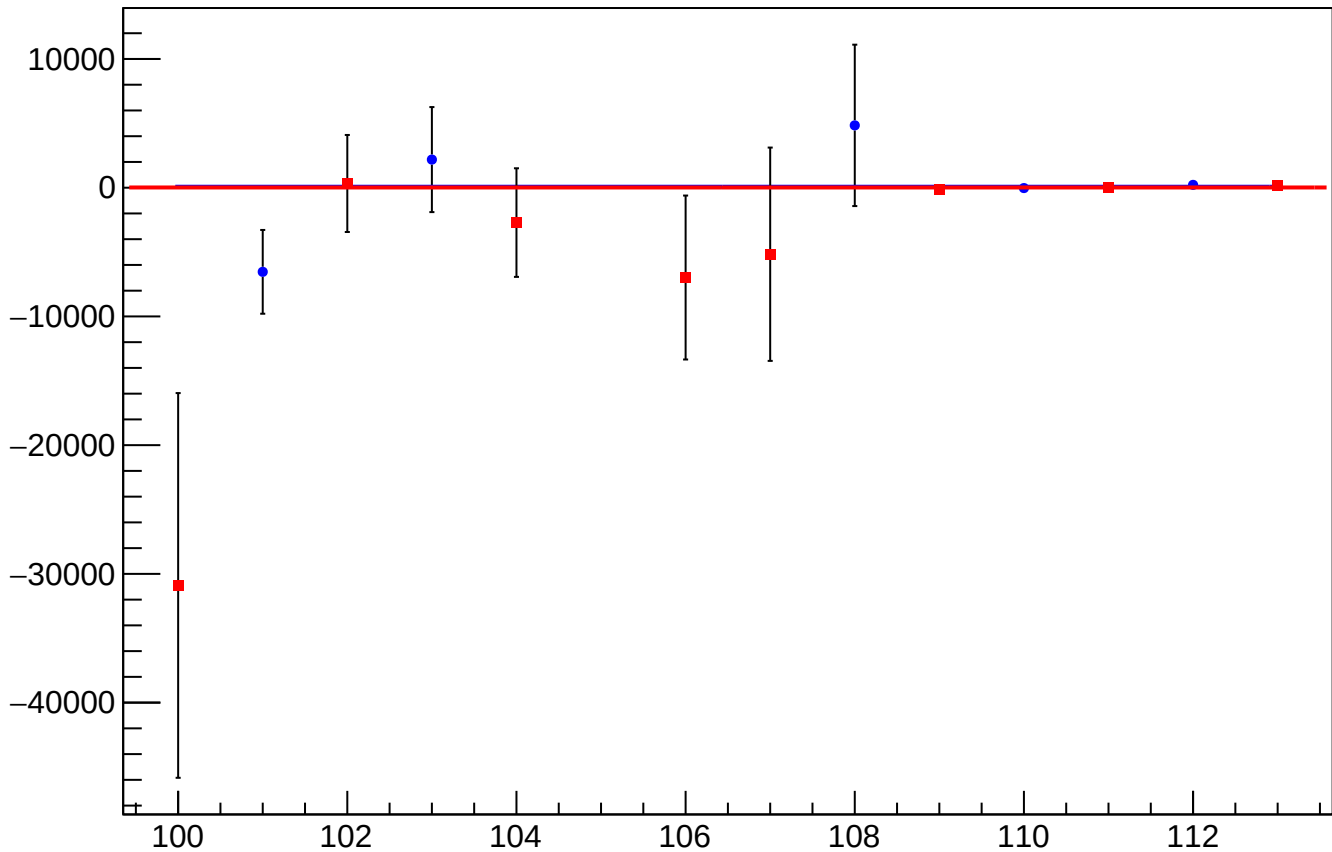
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.180+/-0.013  $\chi^2/\text{NDF}$ : 6781867.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_cav4cQ\_dg\_ds\_avg\_mean vs Slug



Right In: 74.662 $\pm$ 145.607  $\chi^2$ /NDF: 5.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.300 $\pm$ 114.535  $\chi^2$ /NDF: 8.0/7

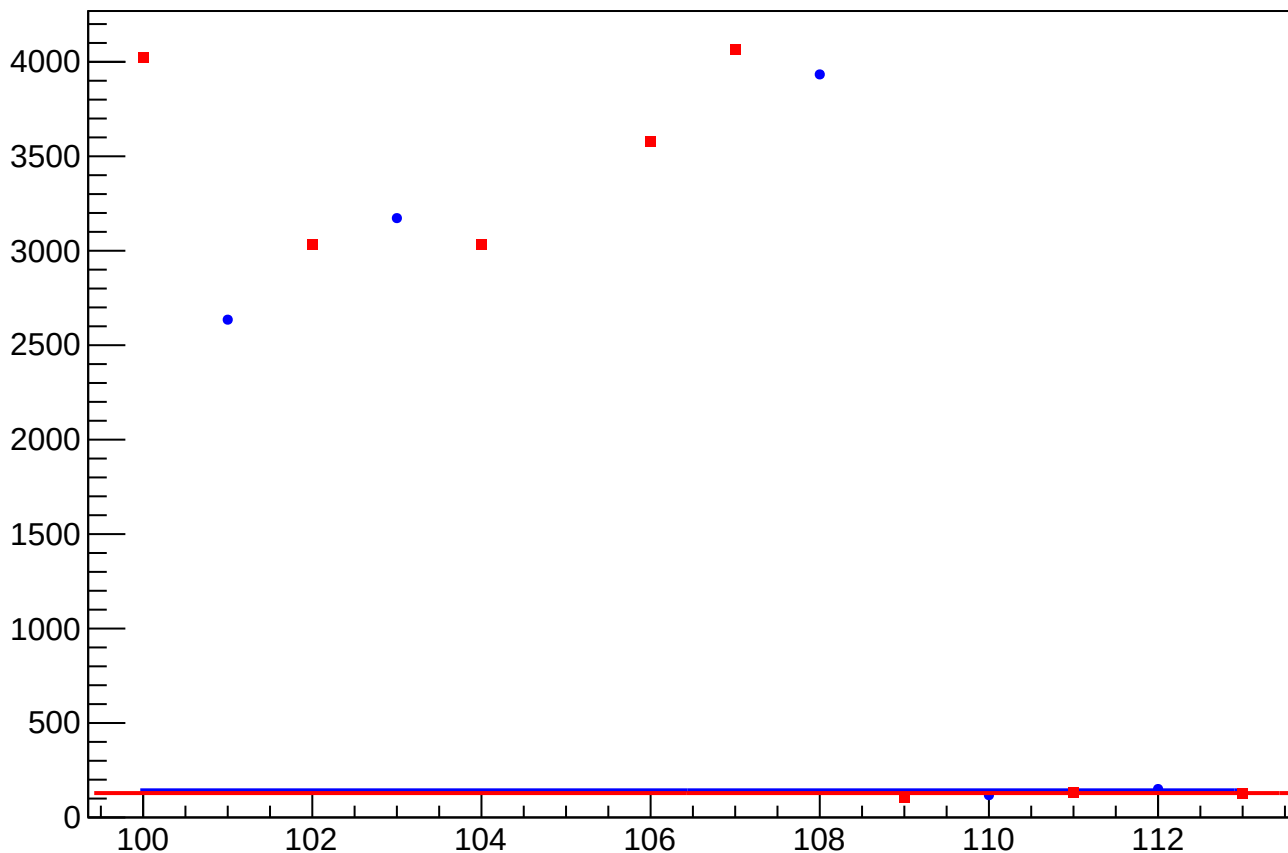
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 39.226 $\pm$ 90.022  $\chi^2$ /NDF: 13.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_dg\_ds\_avg\_rms vs Slug



Right In: 143.550 $\pm$ 0.103  $\chi^2$ /NDF: 3042252.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 129.032 $\pm$ 0.081  $\chi^2$ /NDF: 3332204.2/7

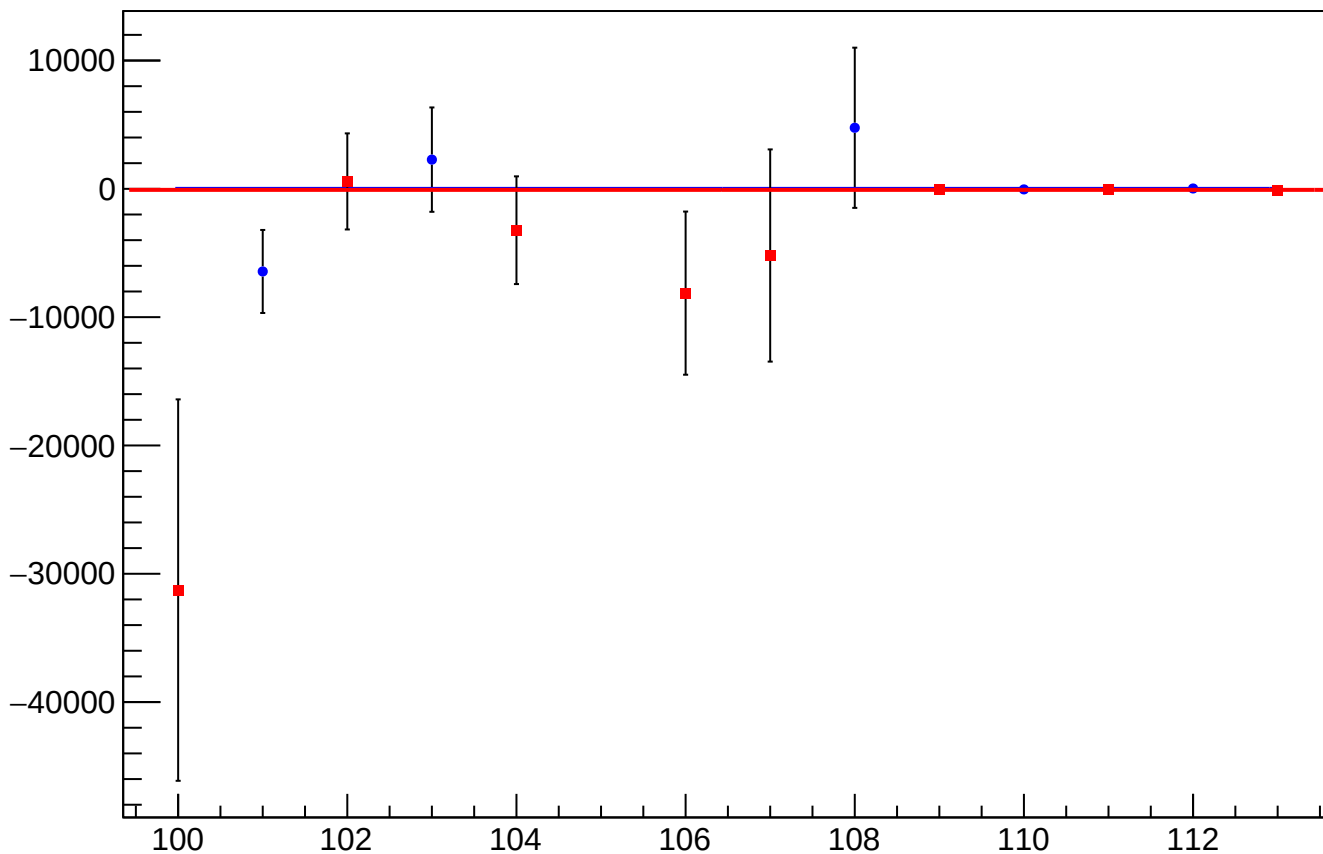
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 134.581 $\pm$ 0.064  $\chi^2$ /NDF: 6386740.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_cav4cQ\_dg\_ds\_dd\_mean vs Slug



Right In: -3.455+/-33.542  $\chi^2/\text{NDF}$ : 6.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -79.958+/-28.510  $\chi^2/\text{NDF}$ : 10.1/7

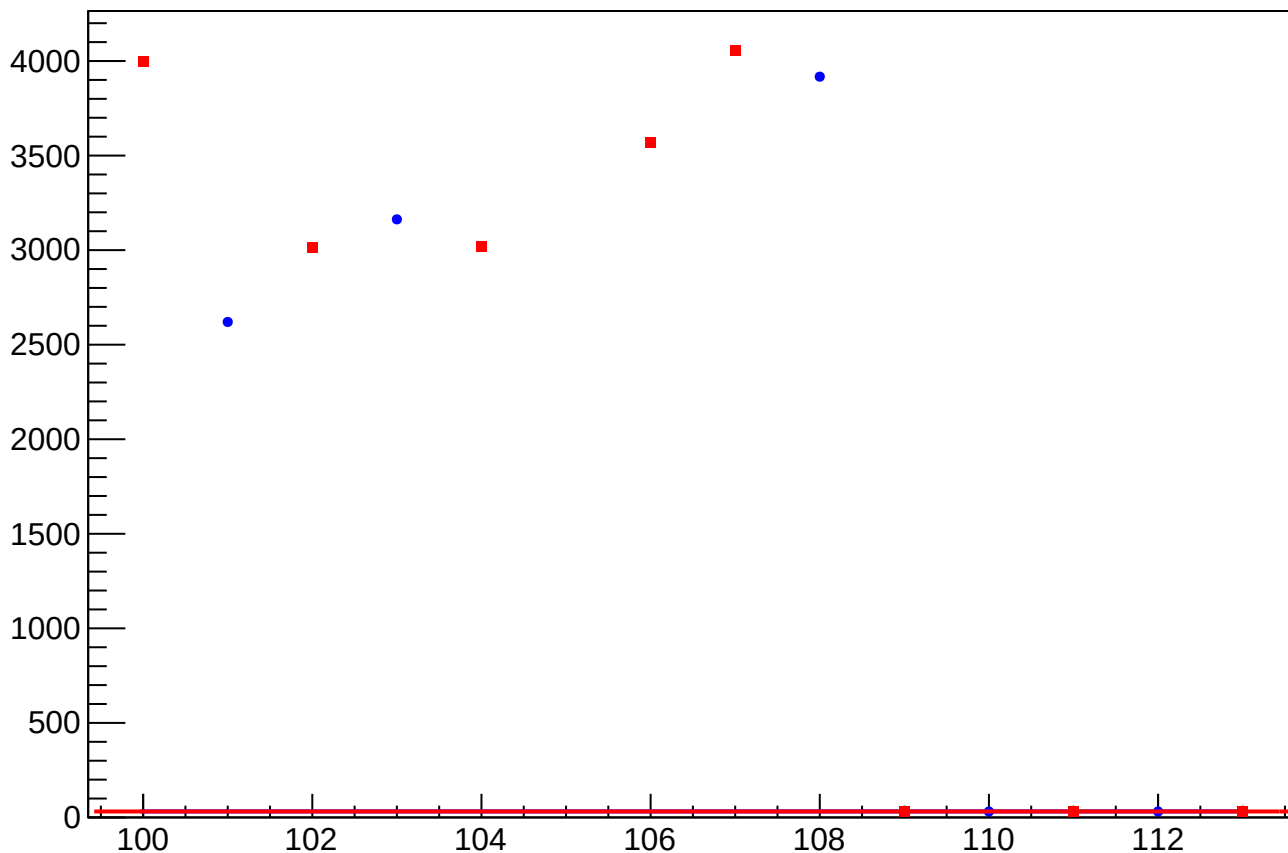
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -47.870+/-21.723  $\chi^2/\text{NDF}$ : 19.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_cav4cQ\_dg\_ds\_dd\_rms vs Slug



Right In: 32.003+/-0.024  $\chi^2/\text{NDF}$ : 3240601.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.606+/-0.020  $\chi^2/\text{NDF}$ : 3521659.2/7

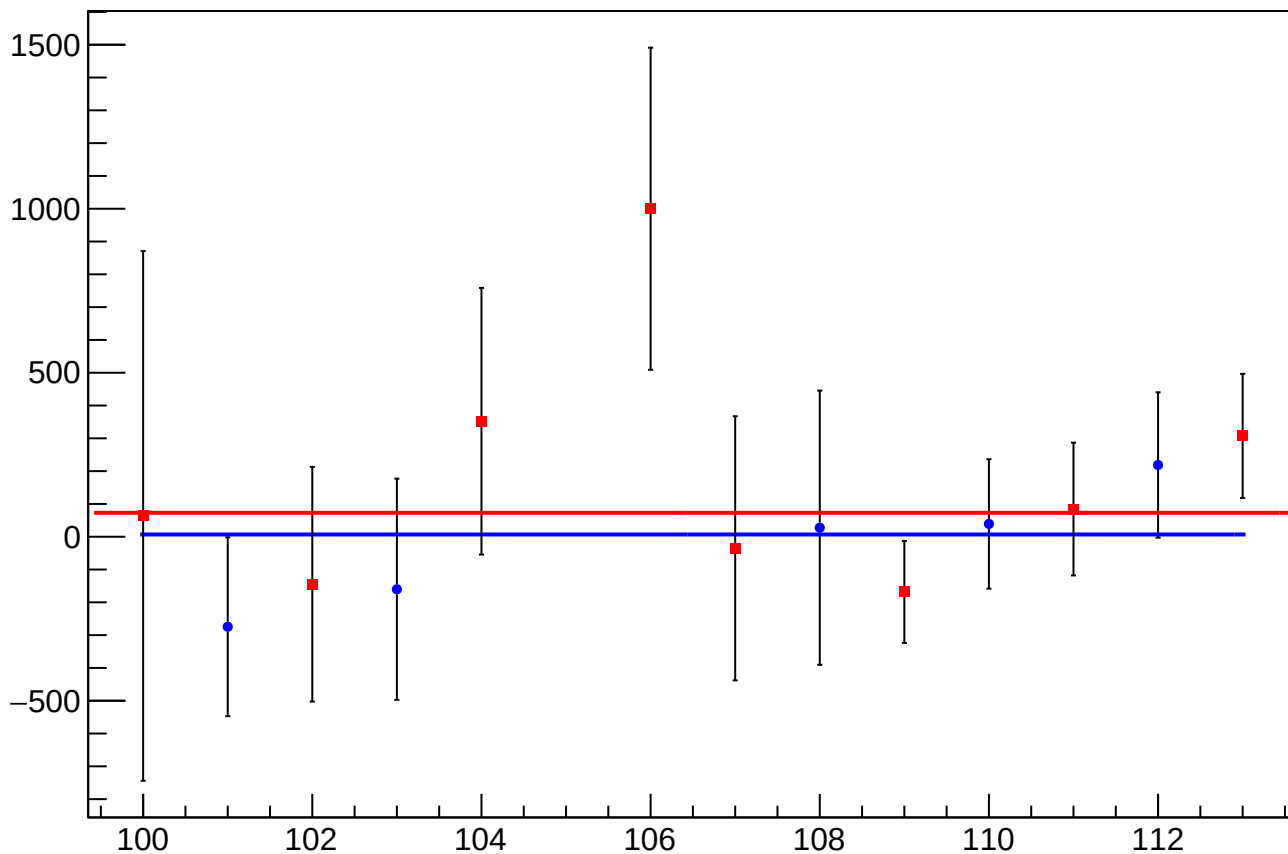
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.773+/-0.015  $\chi^2/\text{NDF}$ : 6762422.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_an\_us\_avg\_mean vs Slug



Right In: 6.920+/-116.225  $\chi^2/\text{NDF}$ : 2.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 72.973+/-91.519  $\chi^2/\text{NDF}$ : 8.4/7

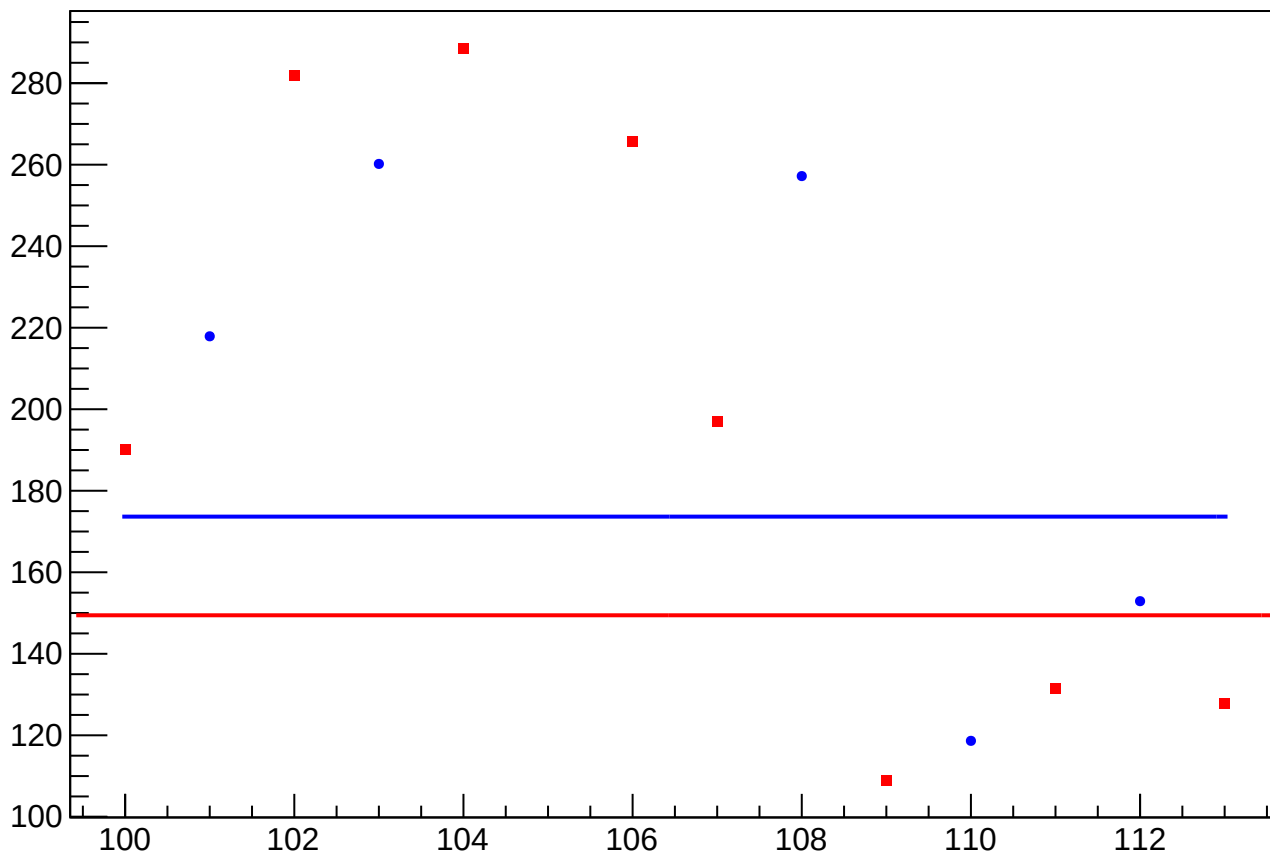
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.692+/-71.903  $\chi^2/\text{NDF}$ : 10.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_an\_us\_avg\_rms vs Slug



Right In: 173.654 $\pm$ 0.082  $\chi^2$ /NDF: 437263.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 149.447 $\pm$ 0.065  $\chi^2$ /NDF: 829649.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

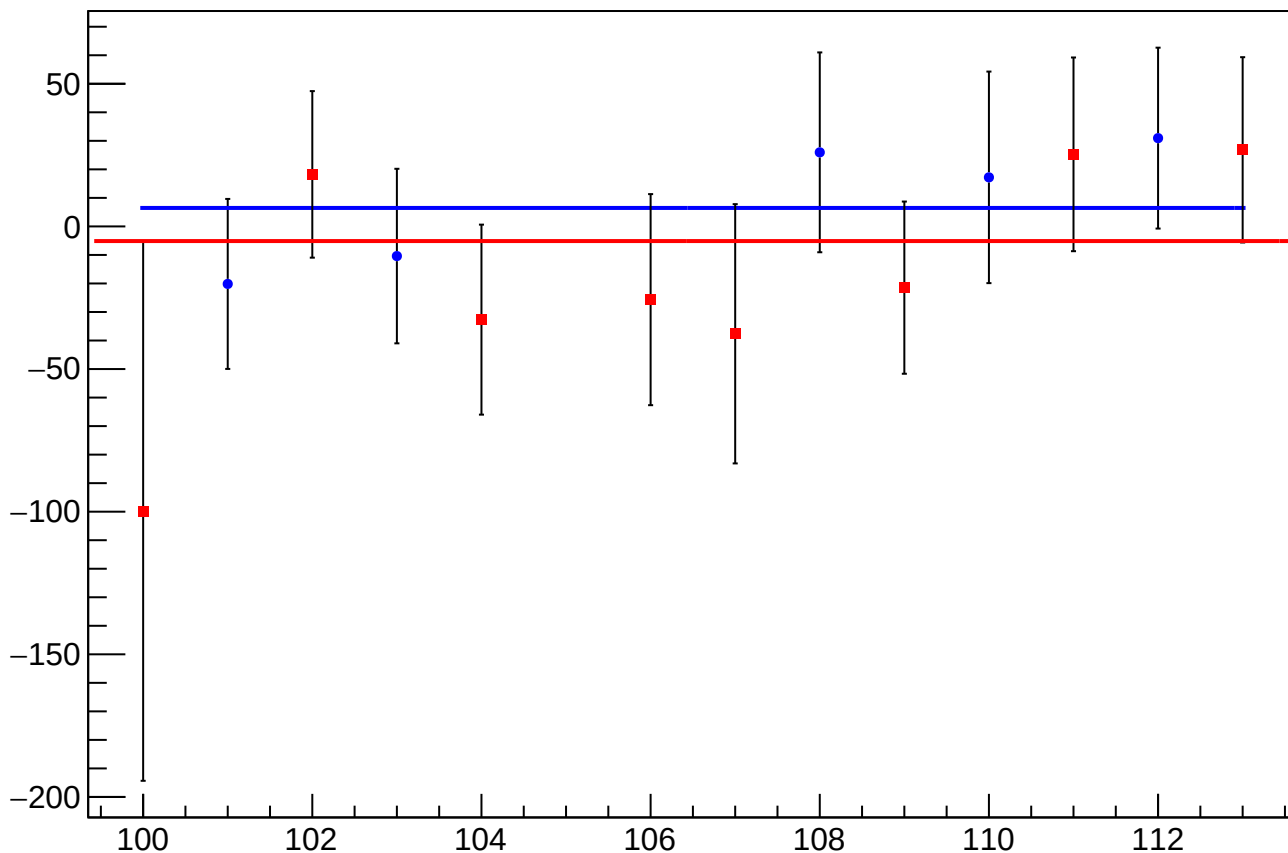
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 158.712 $\pm$ 0.051  $\chi^2$ /NDF: 1320465.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bcm\_dg\_us\_an\_us\_dd\_mean vs Slug



Right In:  $6.477 \pm 14.537$   $\chi^2/\text{NDF}$ : 2.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-5.134 \pm 12.584$   $\chi^2/\text{NDF}$ : 5.2/7

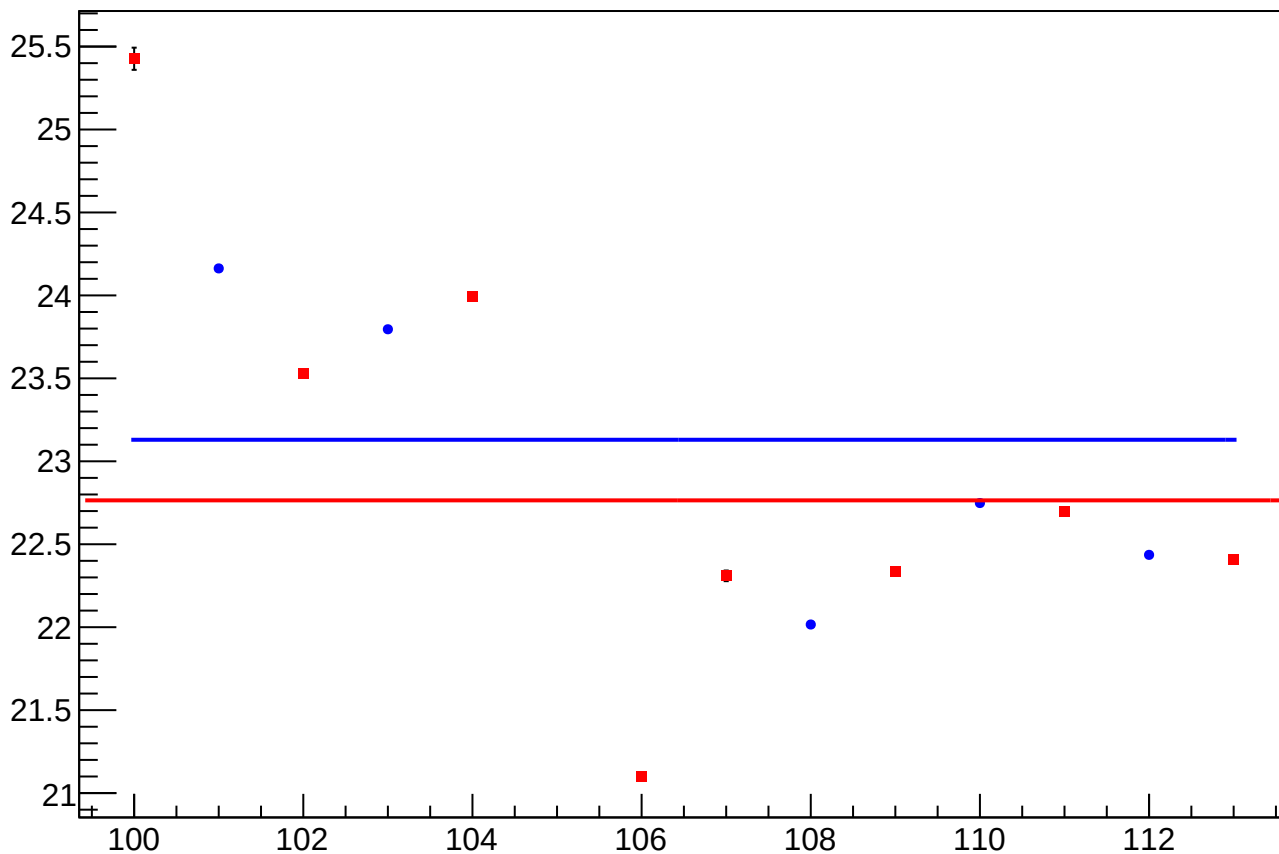
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.161 \pm 9.514$   $\chi^2/\text{NDF}$ : 7.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_an\_us\_dd\_rms vs Slug



Right In: 23.130 $\pm$ 0.010  $\chi^2$ /NDF: 6542.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.765 $\pm$ 0.009  $\chi^2$ /NDF: 10582.6/7

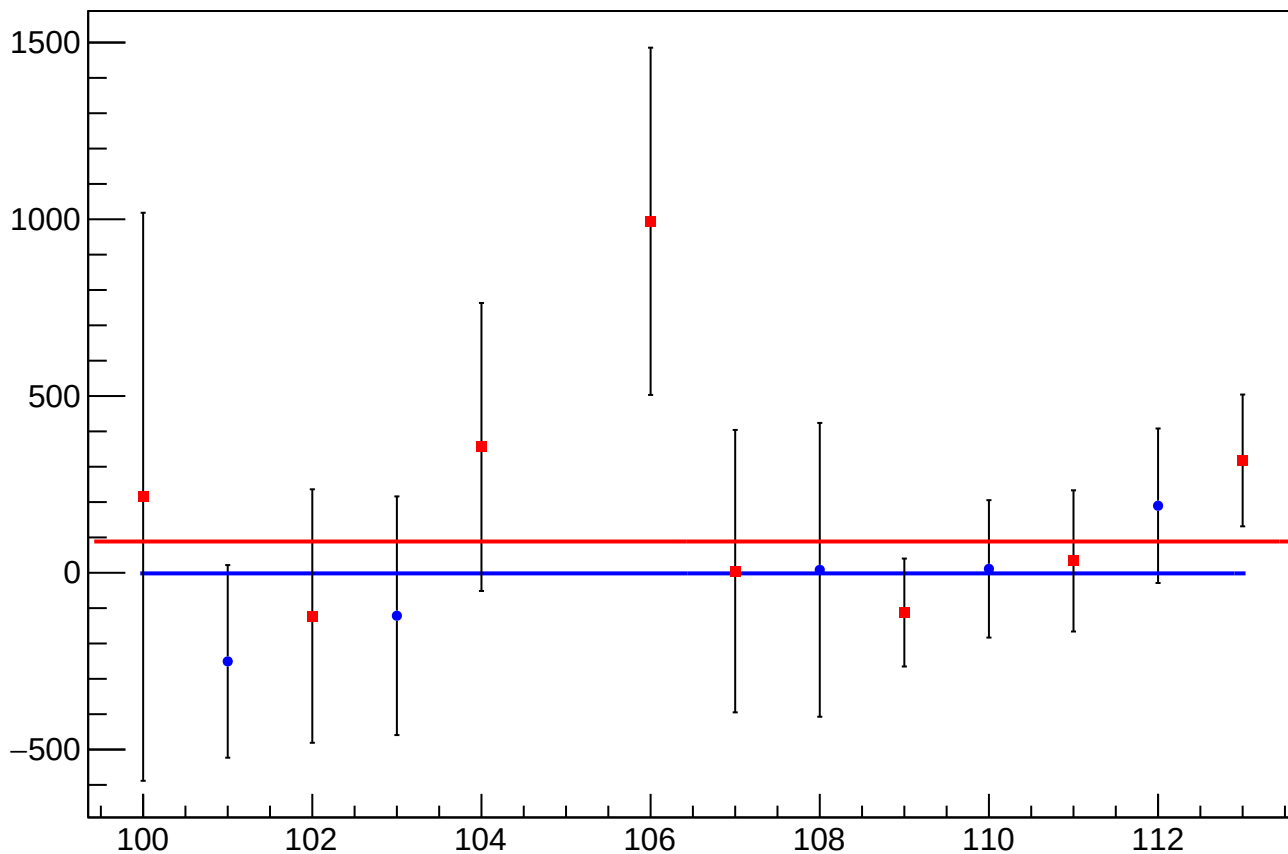
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 22.921 $\pm$ 0.007  $\chi^2$ /NDF: 17847.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_ds\_an\_us\_avg\_mean vs Slug



Right In: -1.708+/-115.124  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 88.493+/-90.338  $\chi^2/\text{NDF}$ : 7.6/7

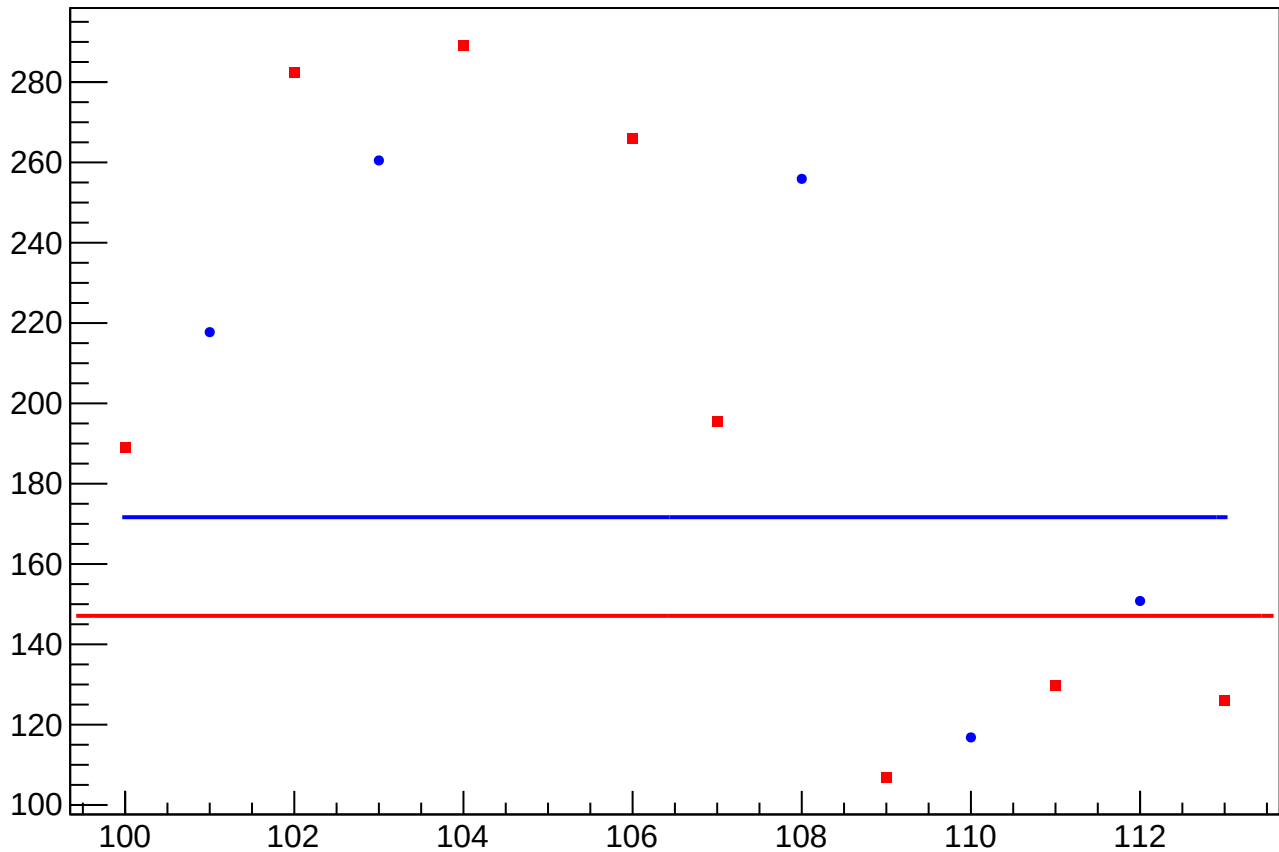
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.118+/-71.069  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_us\_avg\_rms vs Slug



Right In: 171.654 $\pm$ 0.081  $\chi^2$ /NDF: 455297.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 147.100 $\pm$ 0.064  $\chi^2$ /NDF: 858961.7/7

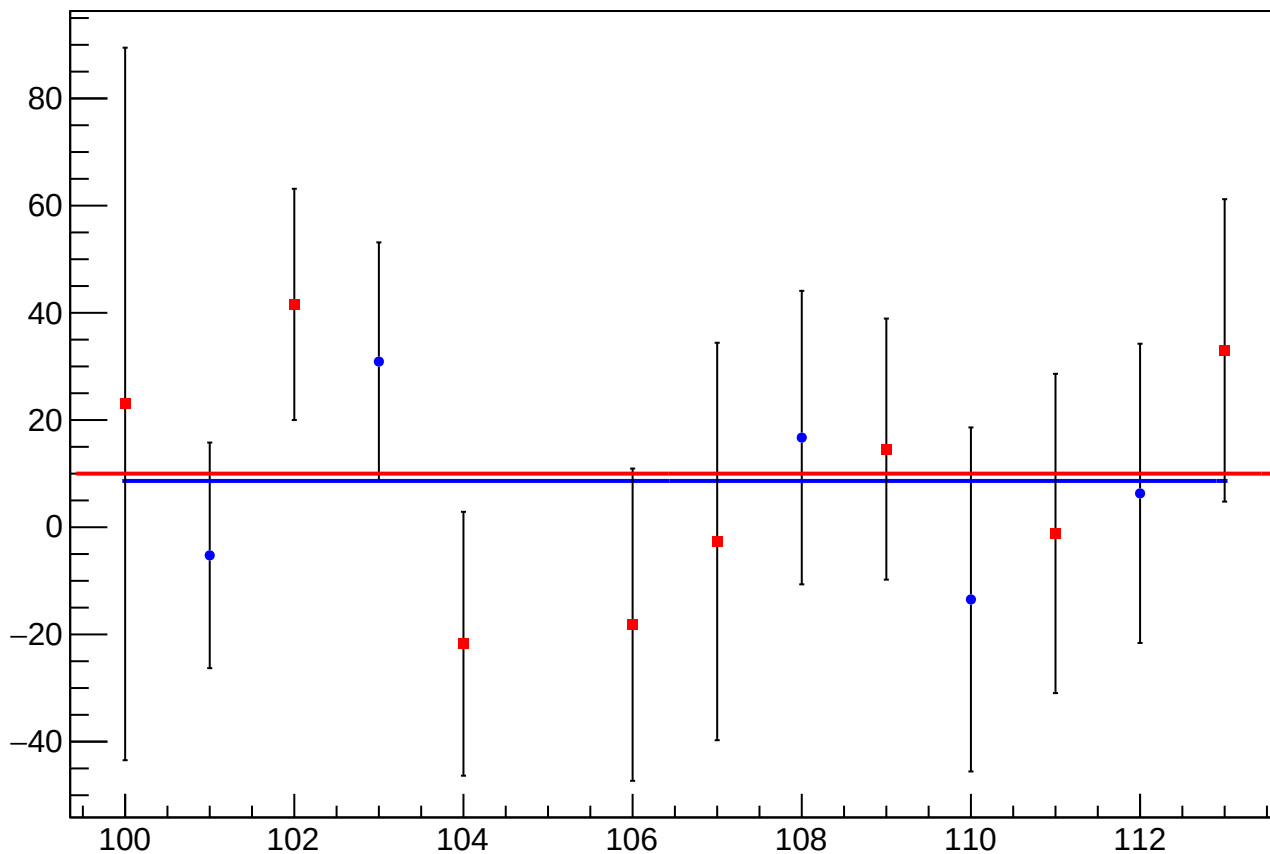
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.457 $\pm$ 0.050  $\chi^2$ /NDF: 1370568.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_ds\_an\_us\_dd\_mean vs Slug



Right In: 8.639 $\pm$ 11.274  $\chi^2$ /NDF: 2.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.002 $\pm$ 9.999  $\chi^2$ /NDF: 5.7/7

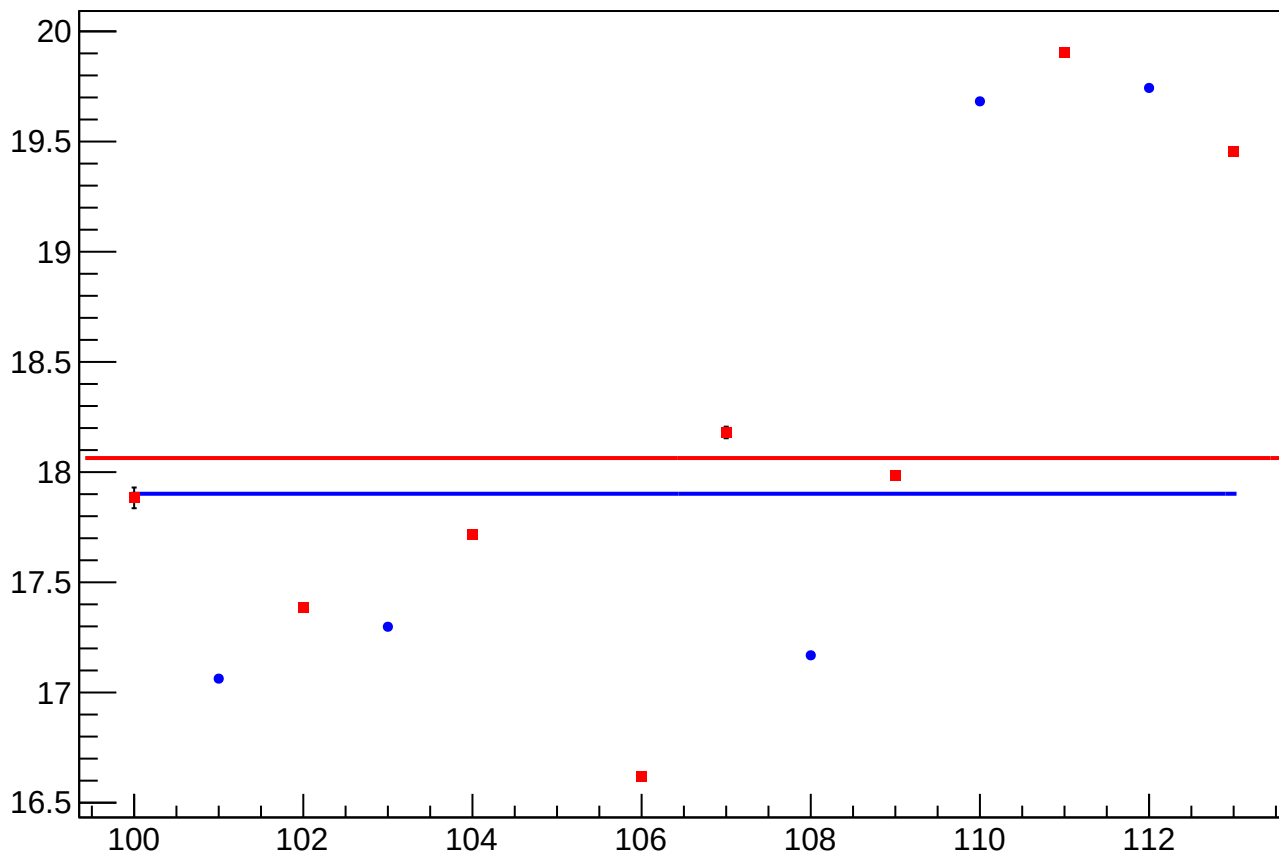
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.402 $\pm$ 7.481  $\chi^2$ /NDF: 7.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_ds\_an\_us\_dd\_rms vs Slug



Right In: 17.902 $\pm$ 0.008  $\chi^2$ /NDF: 20944.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18.064 $\pm$ 0.007  $\chi^2$ /NDF: 19861.9/7

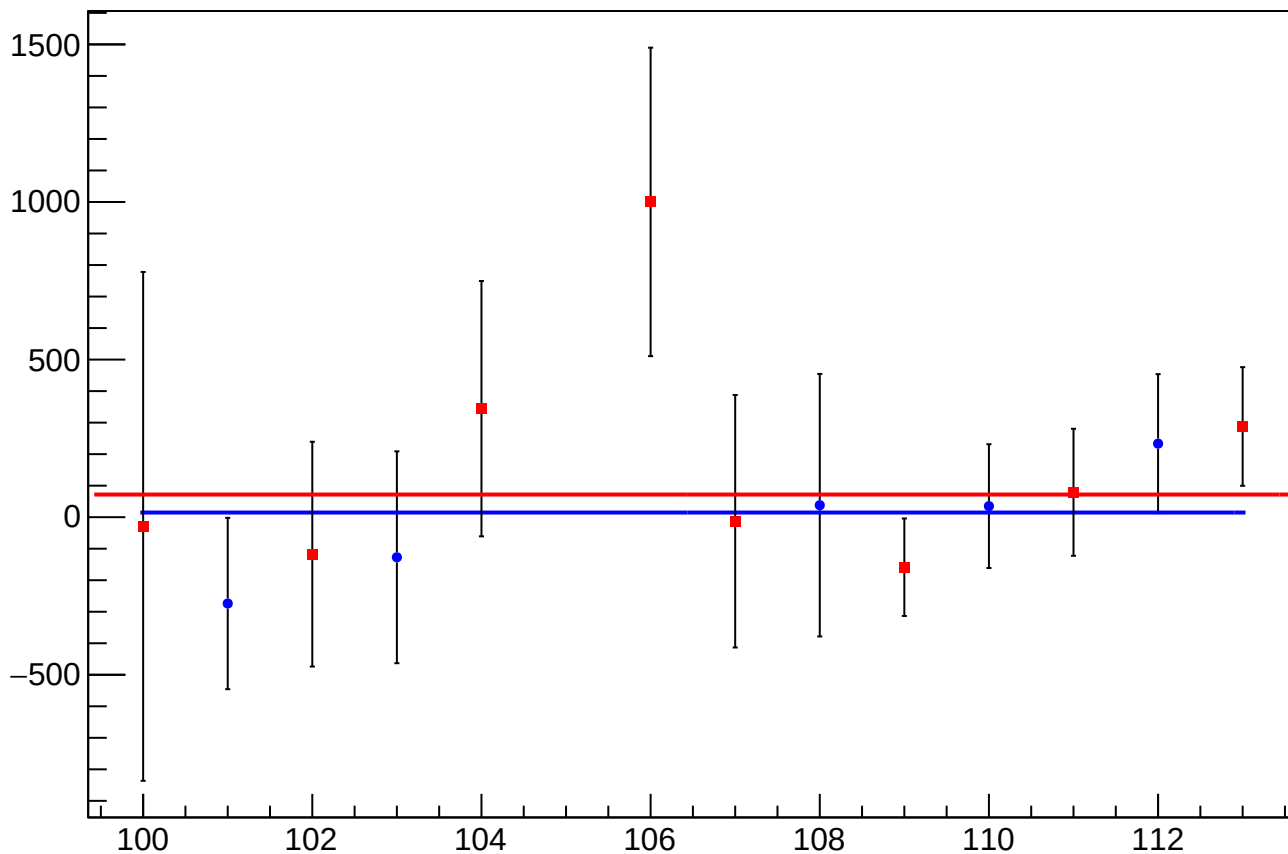
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.993 $\pm$ 0.005  $\chi^2$ /NDF: 41037.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_us\_an\_ds\_avg\_mean vs Slug



Right In: 14.727 $\pm$ 115.722  $\chi^2$ /NDF: 2.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 71.855 $\pm$ 91.072  $\chi^2$ /NDF: 7.9/7

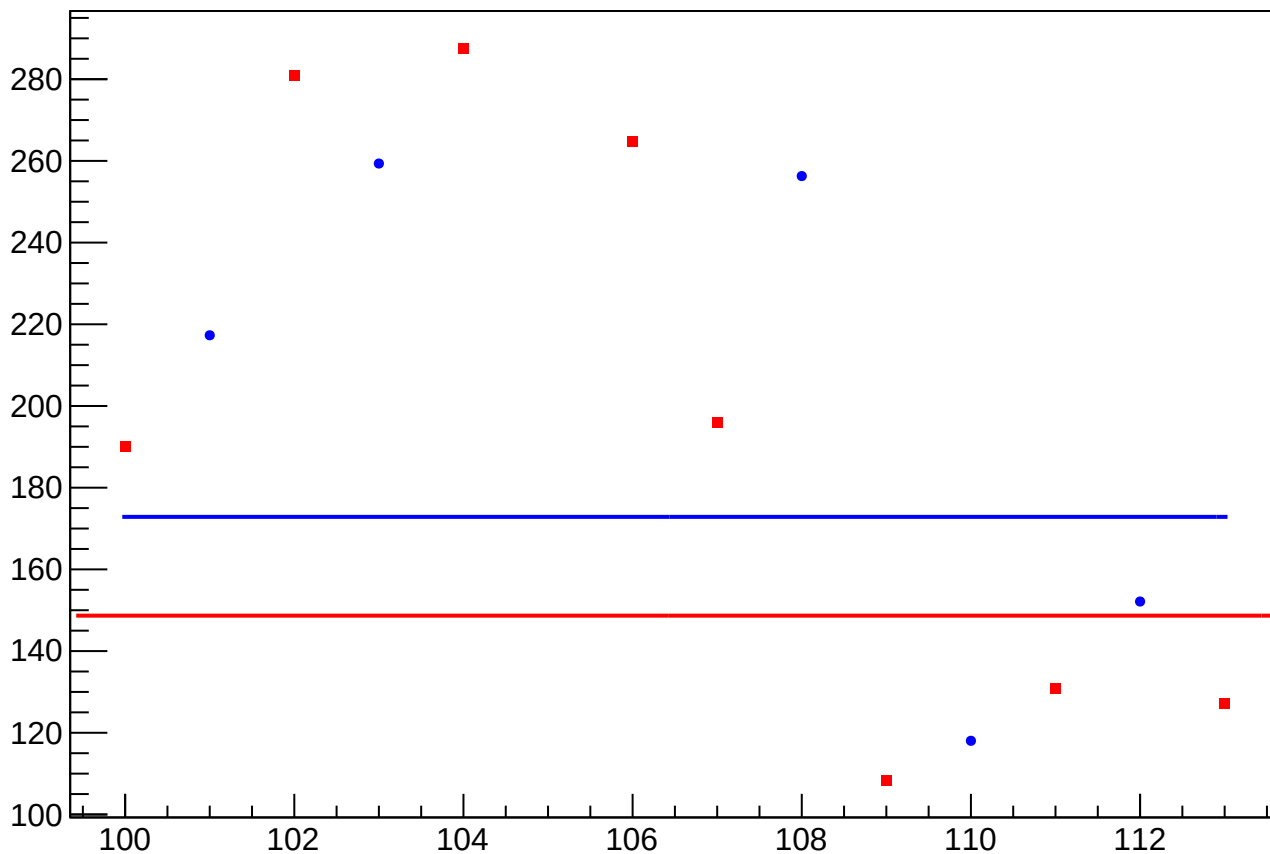
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 50.005 $\pm$ 71.567  $\chi^2$ /NDF: 10.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_an\_ds\_avg\_rms vs Slug



Right In: 172.857+/-0.082  $\chi^2/\text{NDF}$ : 439780.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 148.675+/-0.064  $\chi^2/\text{NDF}$ : 832666.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

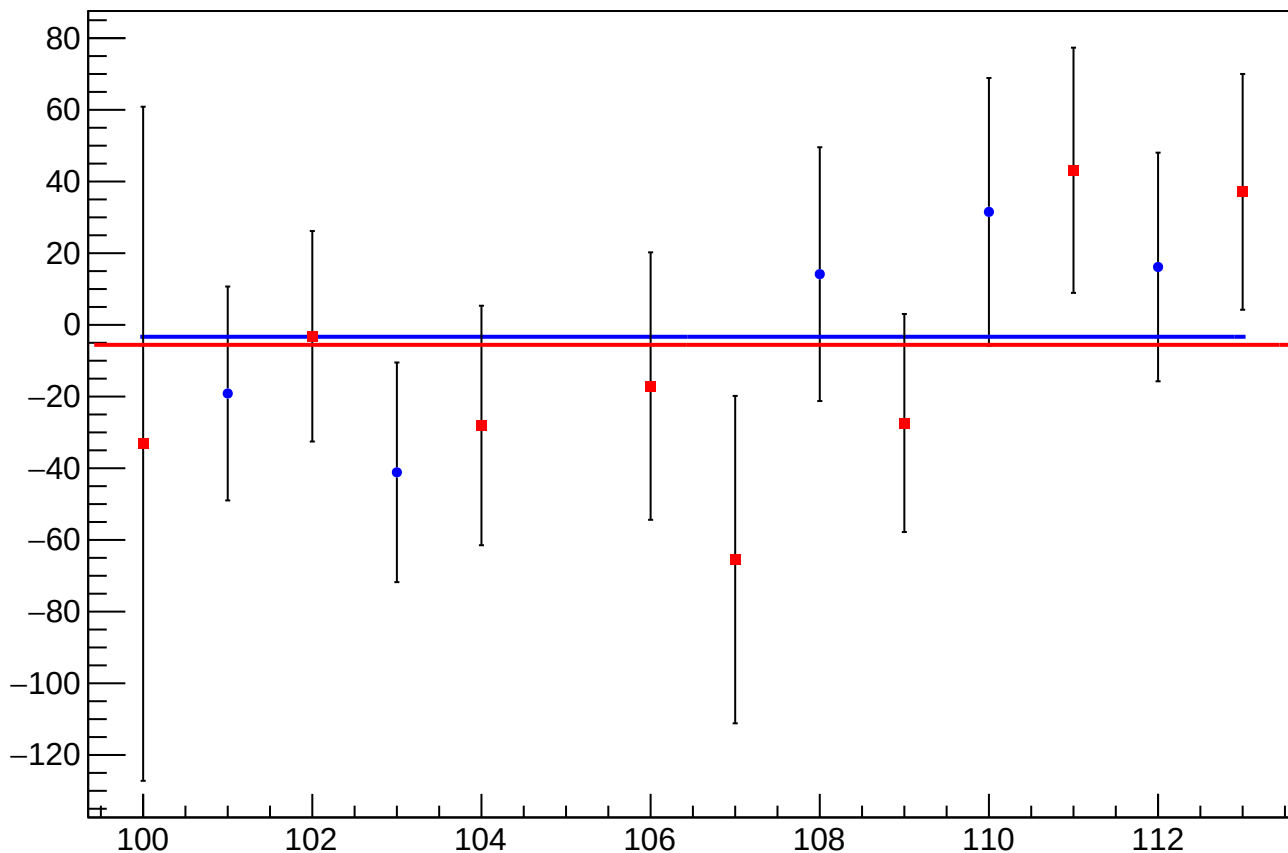
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 157.924+/-0.051  $\chi^2/\text{NDF}$ : 1326378.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bcm\_dg\_us\_an\_ds\_dd\_mean vs Slug



Right In: -3.318+/-14.609  $\chi^2/\text{NDF}$ : 3.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.568+/-12.674  $\chi^2/\text{NDF}$ : 6.6/7

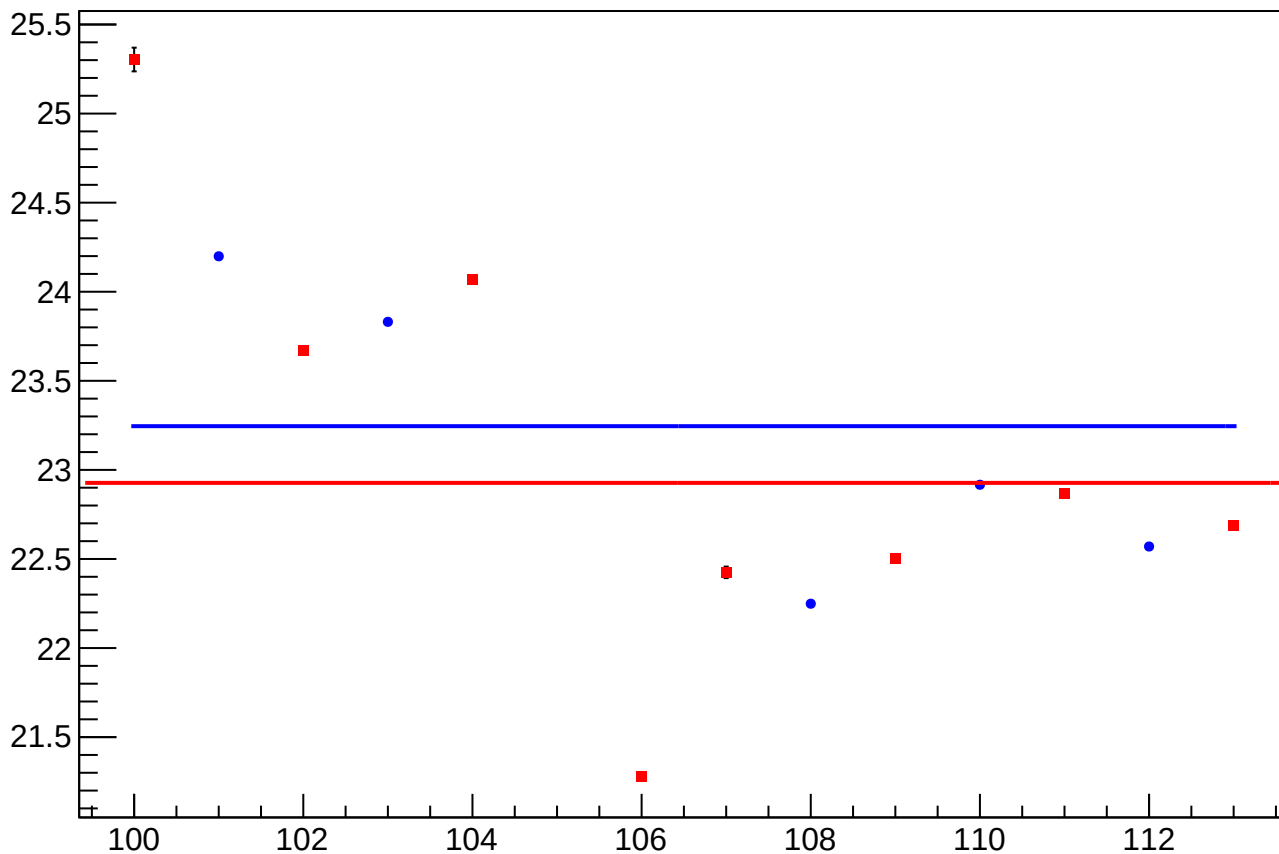
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.602+/-9.573  $\chi^2/\text{NDF}$ : 9.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_an\_ds\_dd\_rms vs Slug



Right In: 23.245+/-0.010  $\chi^2/\text{NDF}$ : 5409.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.927+/-0.009  $\chi^2/\text{NDF}$ : 9521.5/7

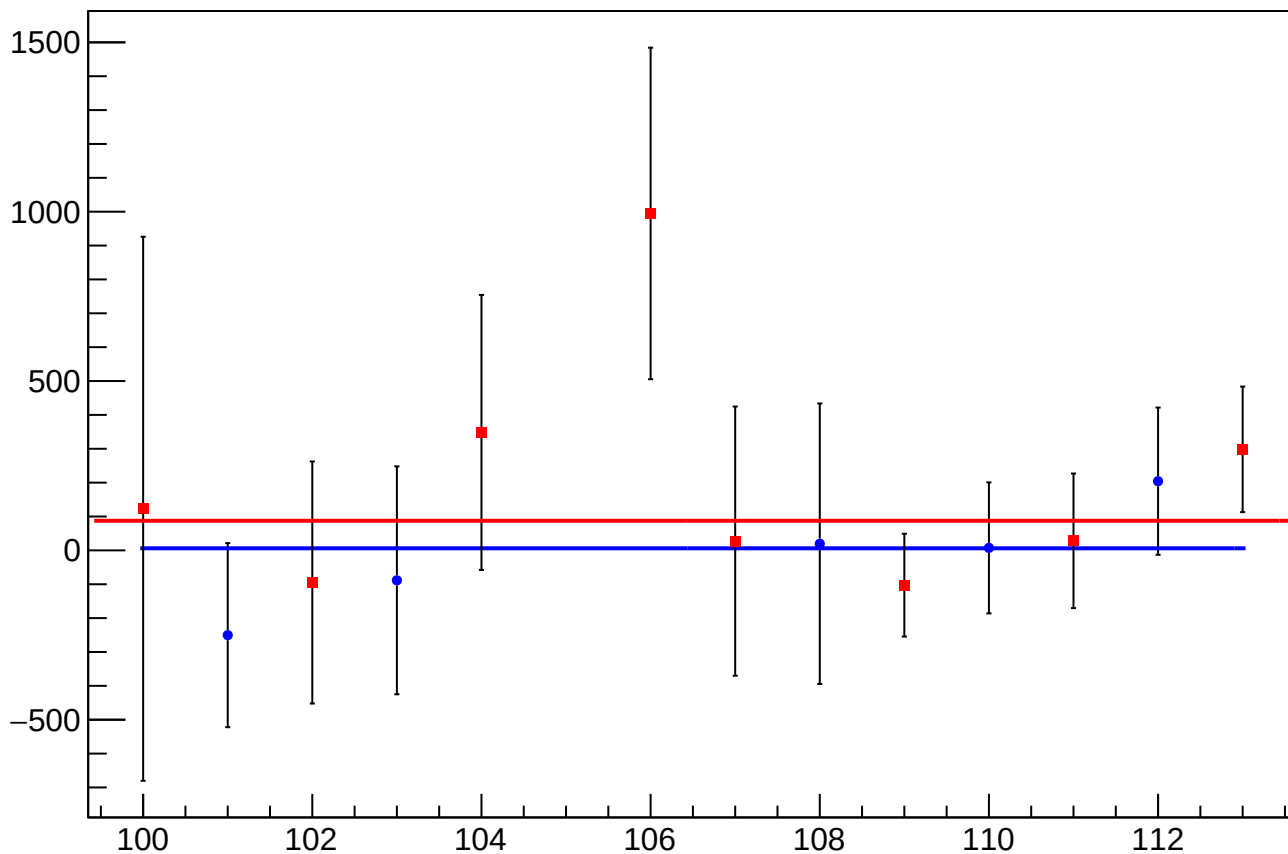
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.064+/-0.007  $\chi^2/\text{NDF}$ : 15472.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_ds\_avg\_mean vs Slug



Right In: 6.110+/-114.620  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 87.426+/-89.890  $\chi^2/\text{NDF}$ : 7.1/7

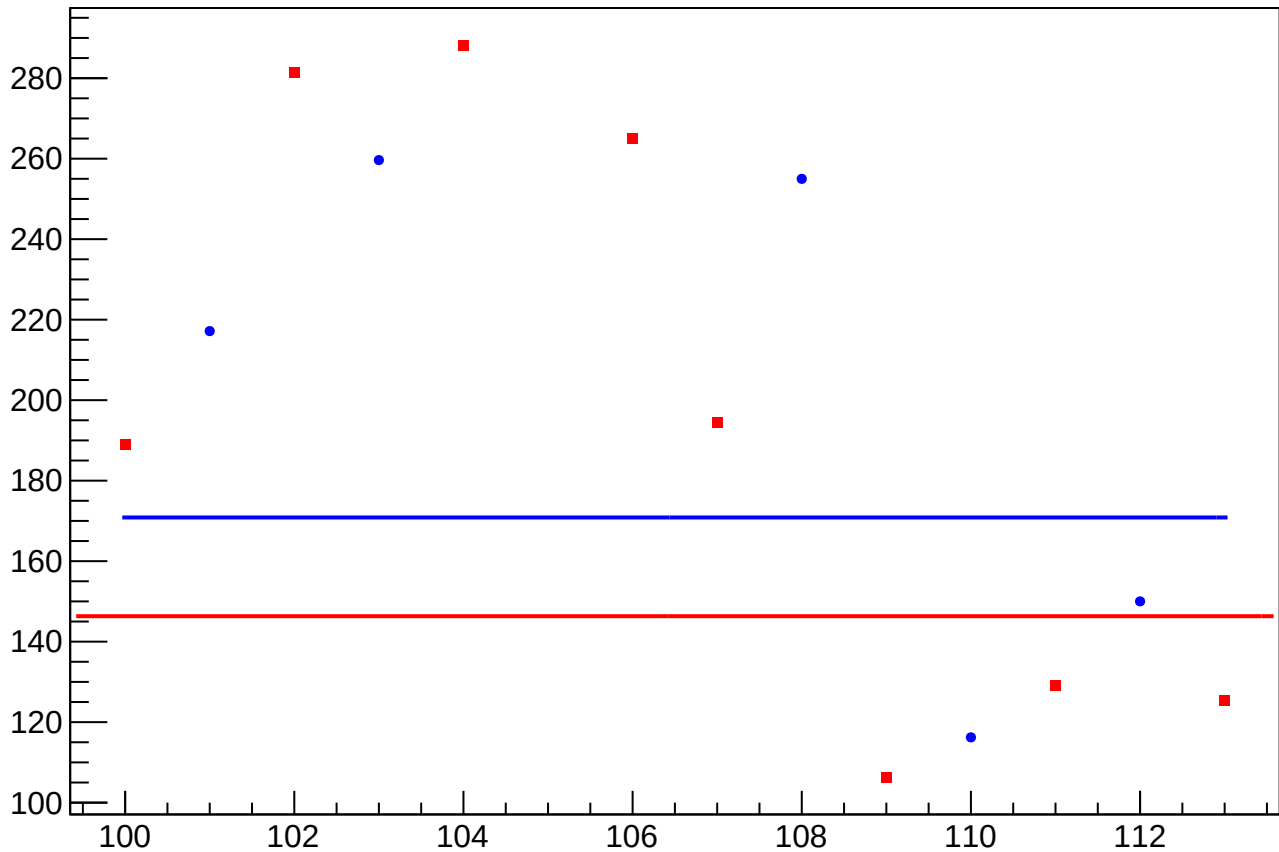
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.459+/-70.732  $\chi^2/\text{NDF}$ : 9.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_ds\_avg\_rms vs Slug



Right In: 170.854+/-0.081  $\chi^2/\text{NDF}$ : 457966.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 146.325+/-0.064  $\chi^2/\text{NDF}$ : 862166.6/7

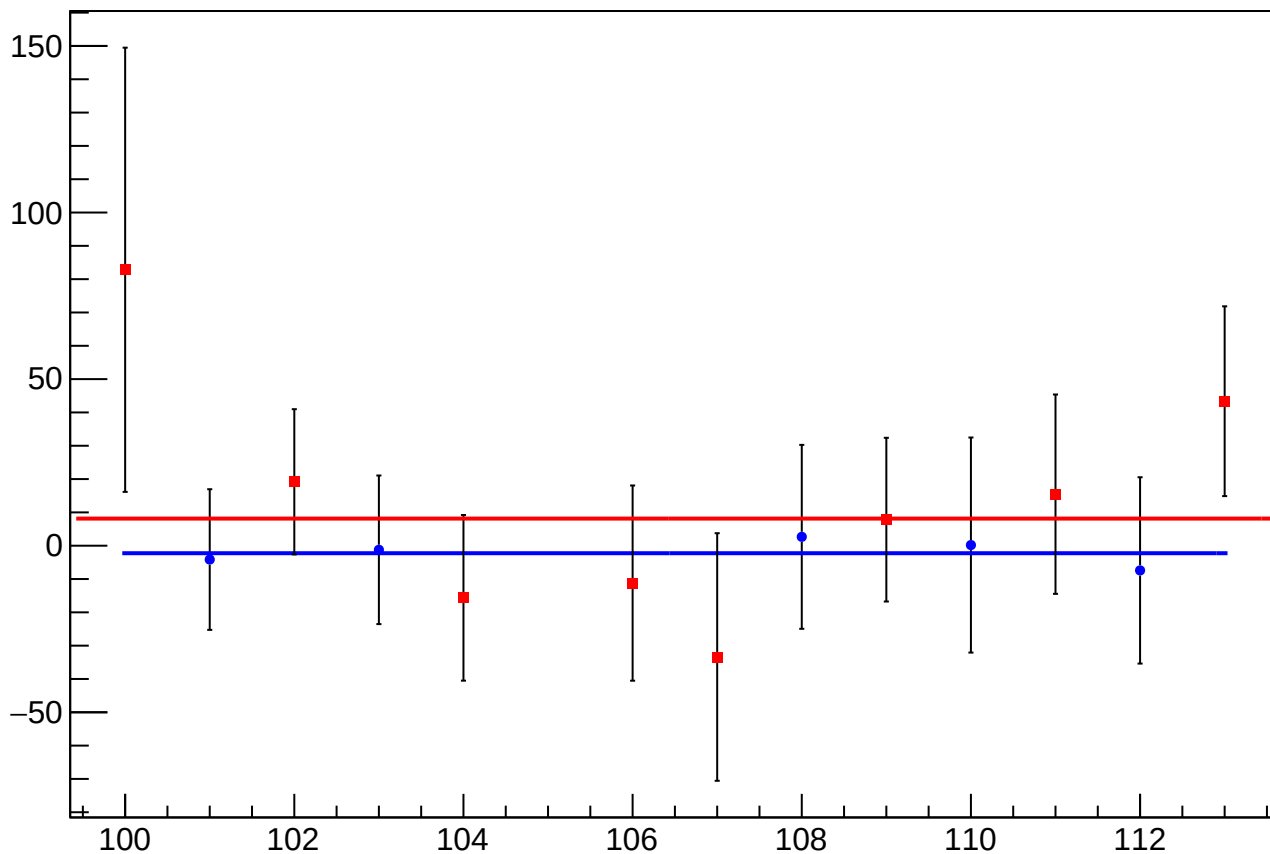
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 155.667+/-0.050  $\chi^2/\text{NDF}$ : 1376846.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_ds\_dd\_mean vs Slug



Right In: -2.255+/-11.318  $\chi^2/\text{NDF}$ : 0.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.139+/-10.079  $\chi^2/\text{NDF}$ : 5.7/7

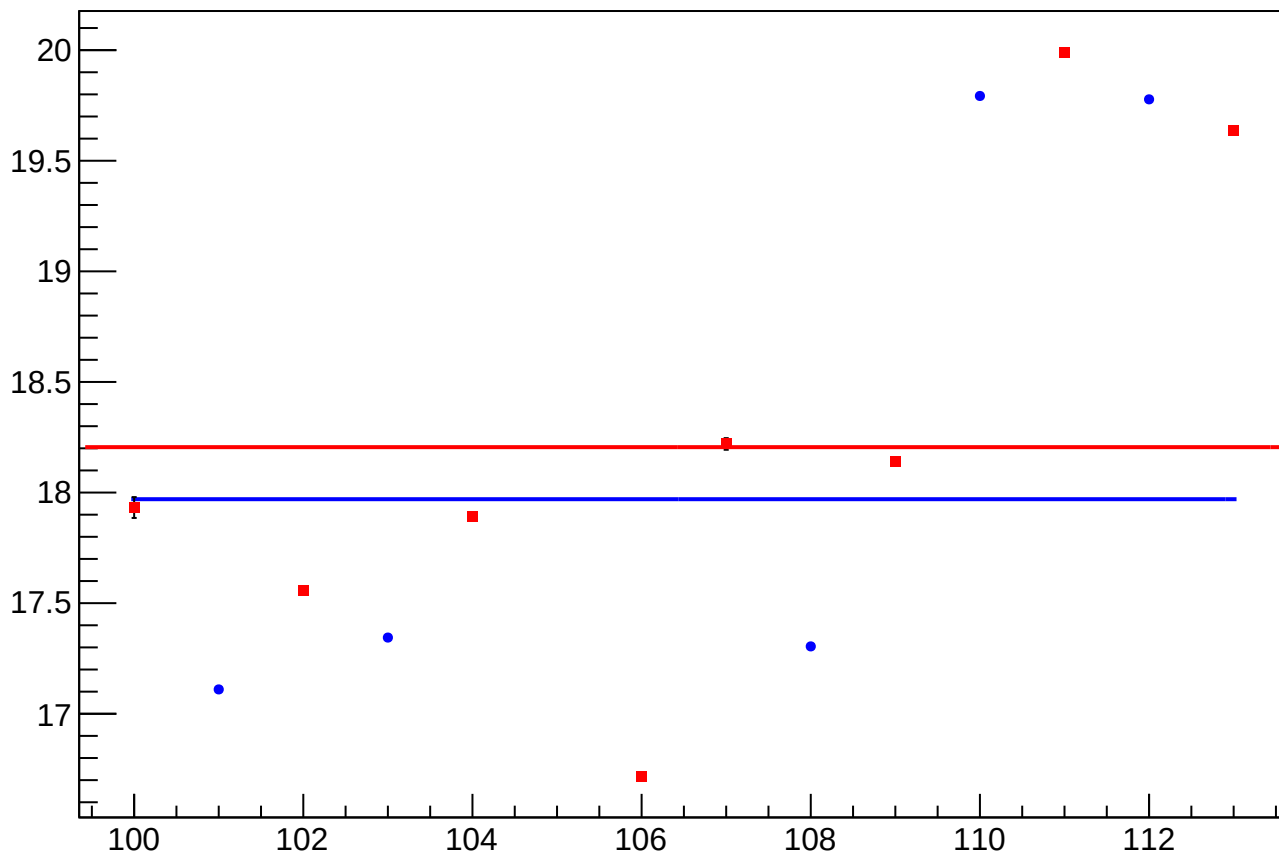
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.542+/-7.527  $\chi^2/\text{NDF}$ : 6.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_ds\_dd\_rms vs Slug



Right In: 17.970+/-0.008  $\chi^2/\text{NDF}$ : 20790.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.205+/-0.007  $\chi^2/\text{NDF}$ : 19470.3/7

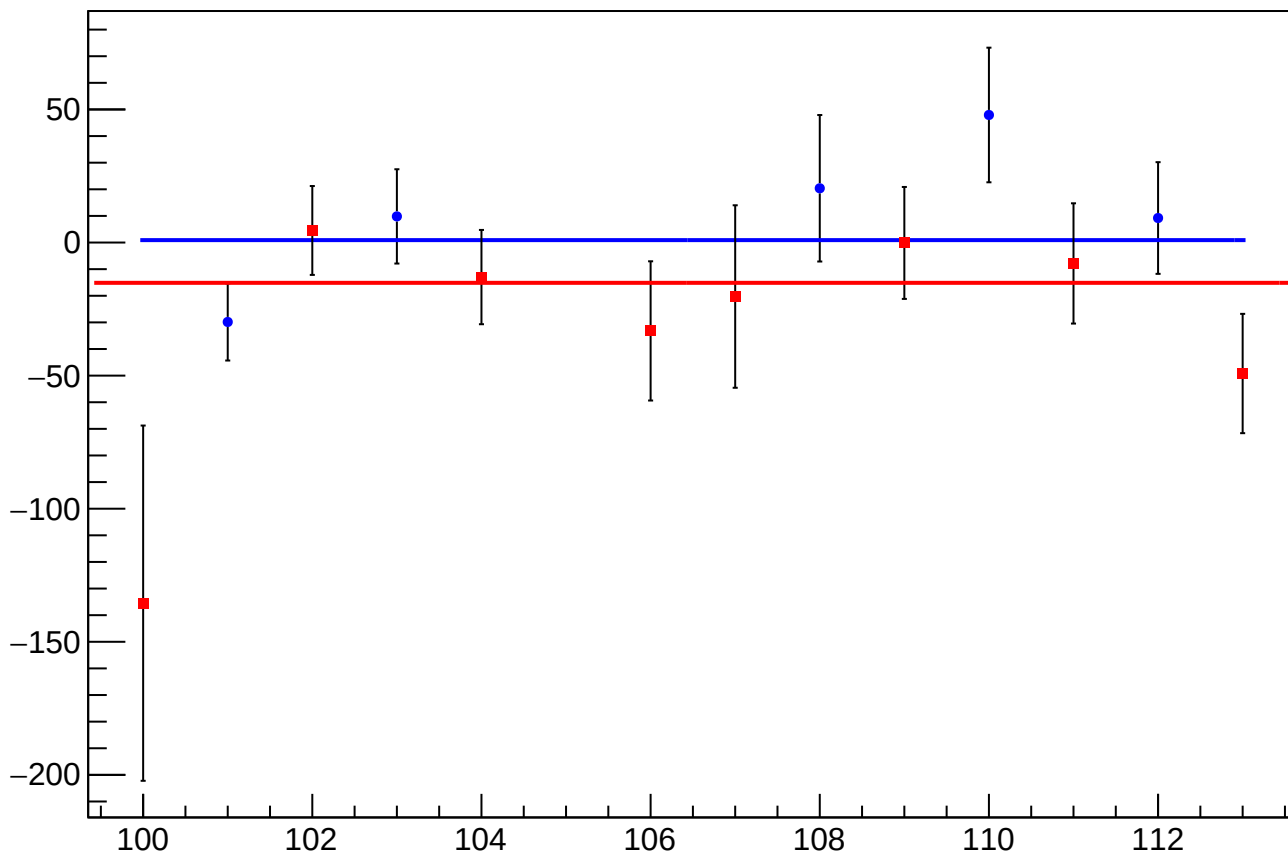
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.101+/-0.005  $\chi^2/\text{NDF}$ : 40742.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4acX\_avg\_mean vs Slug



Right In: 0.907 $\pm$ 8.734  $\chi^2/\text{NDF}$ : 8.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.138 $\pm$ 8.026  $\chi^2/\text{NDF}$ : 8.1/7

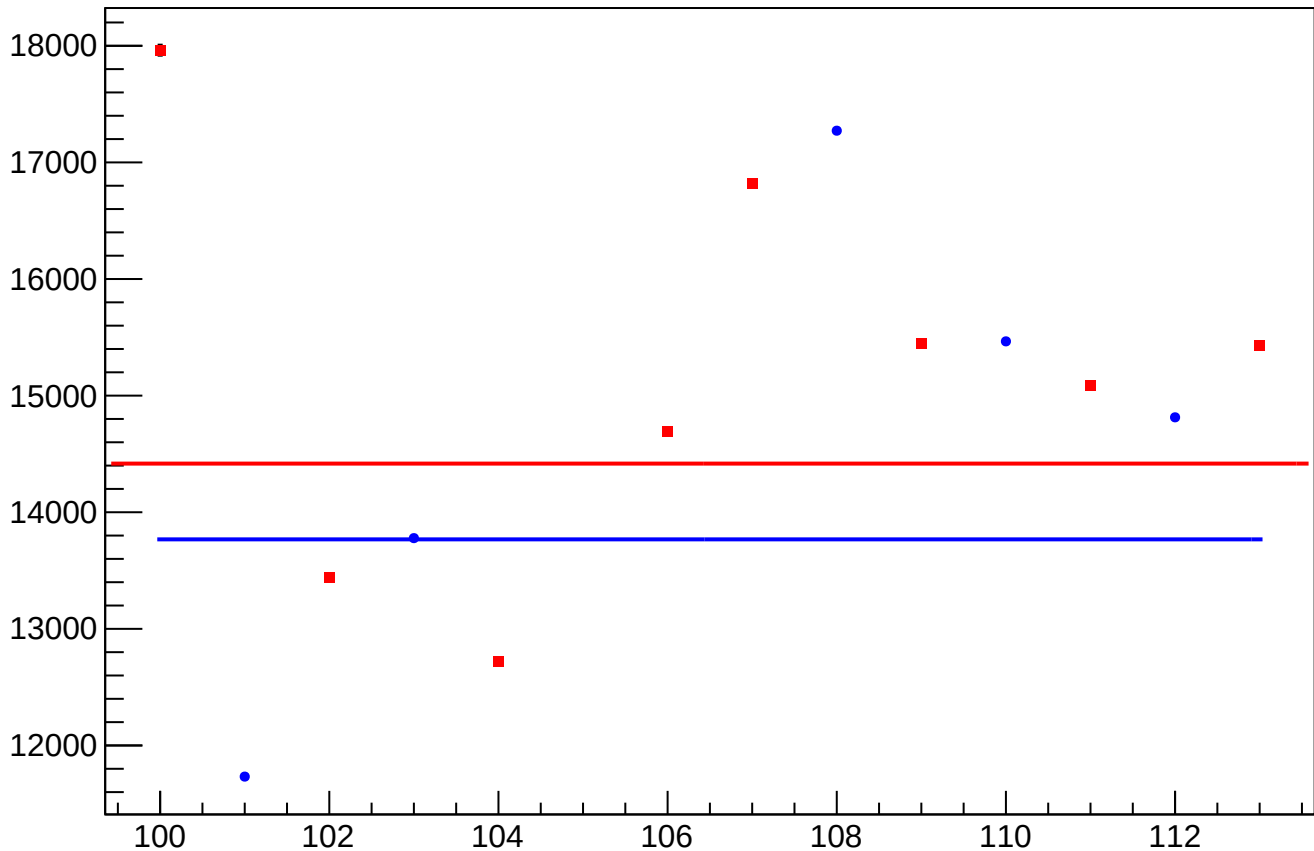
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.792 $\pm$ 5.910  $\chi^2/\text{NDF}$ : 18.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4acX\_avg\_rms vs Slug



Right In: 13767.419 $\pm$ 6.176  $\chi^2$ /NDF: 85878.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14417.153 $\pm$ 5.675  $\chi^2$ /NDF: 51456.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

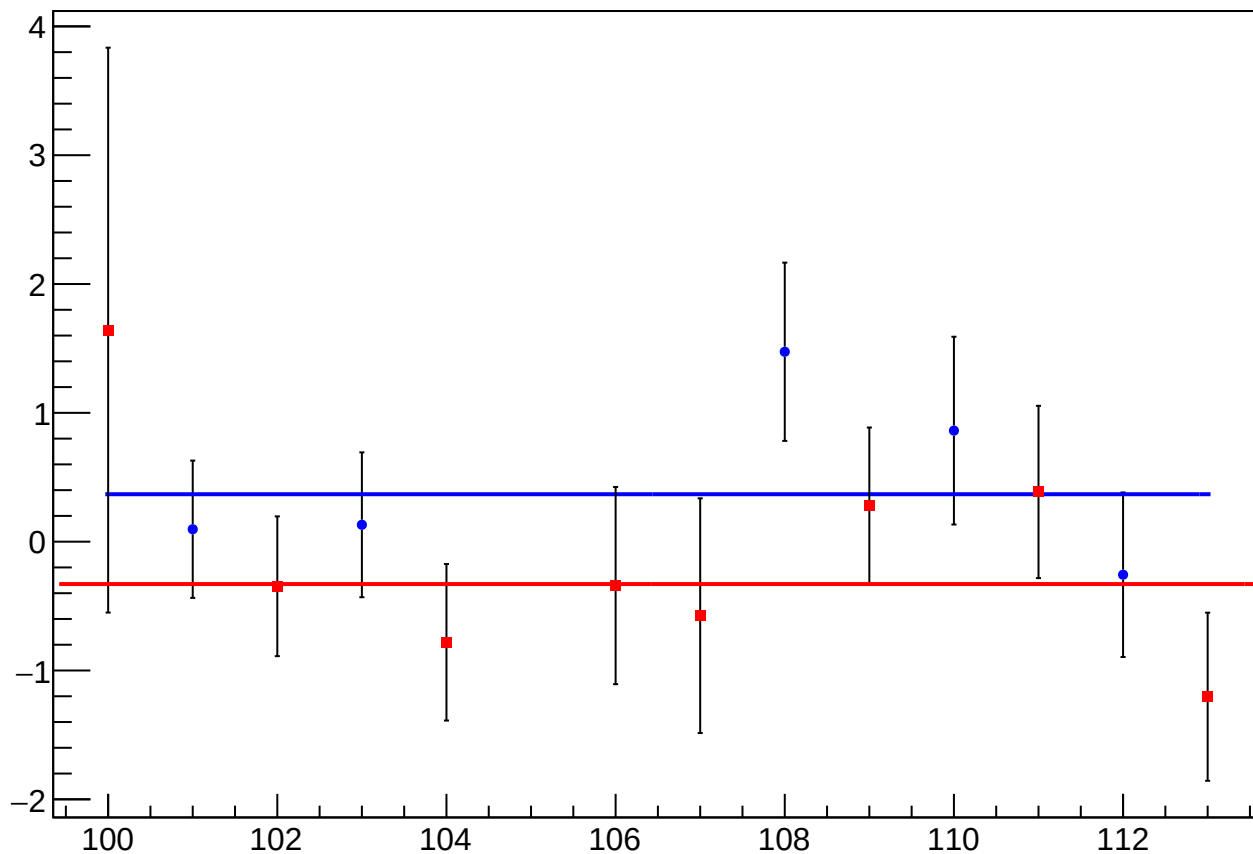
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 14119.680 $\pm$ 4.179  $\chi^2$ /NDF: 143335.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm\_4aX\_4acX\_dd\_mean vs Slug



Right In: 0.368 $\pm$ 0.276  $\chi^2$ /NDF: 4.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.329 $\pm$ 0.246  $\chi^2$ /NDF: 5.4/7

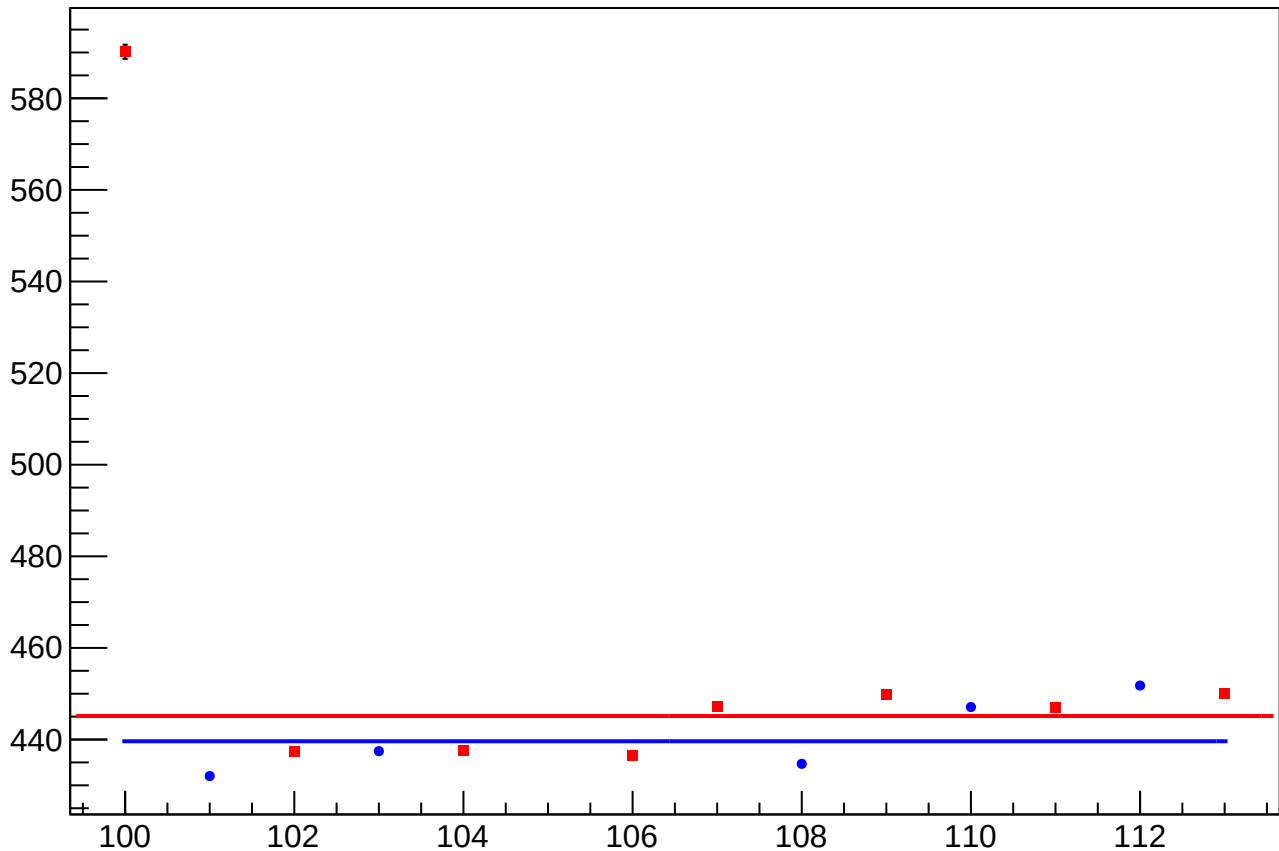
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.020 $\pm$ 0.184  $\chi^2$ /NDF: 13.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aX\_4acX\_dd\_rms vs Slug



Right In: 439.620 $\pm$ 0.195  $\chi^2$ /NDF: 1472.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 445.132 $\pm$ 0.174  $\chi^2$ /NDF: 9965.3/7

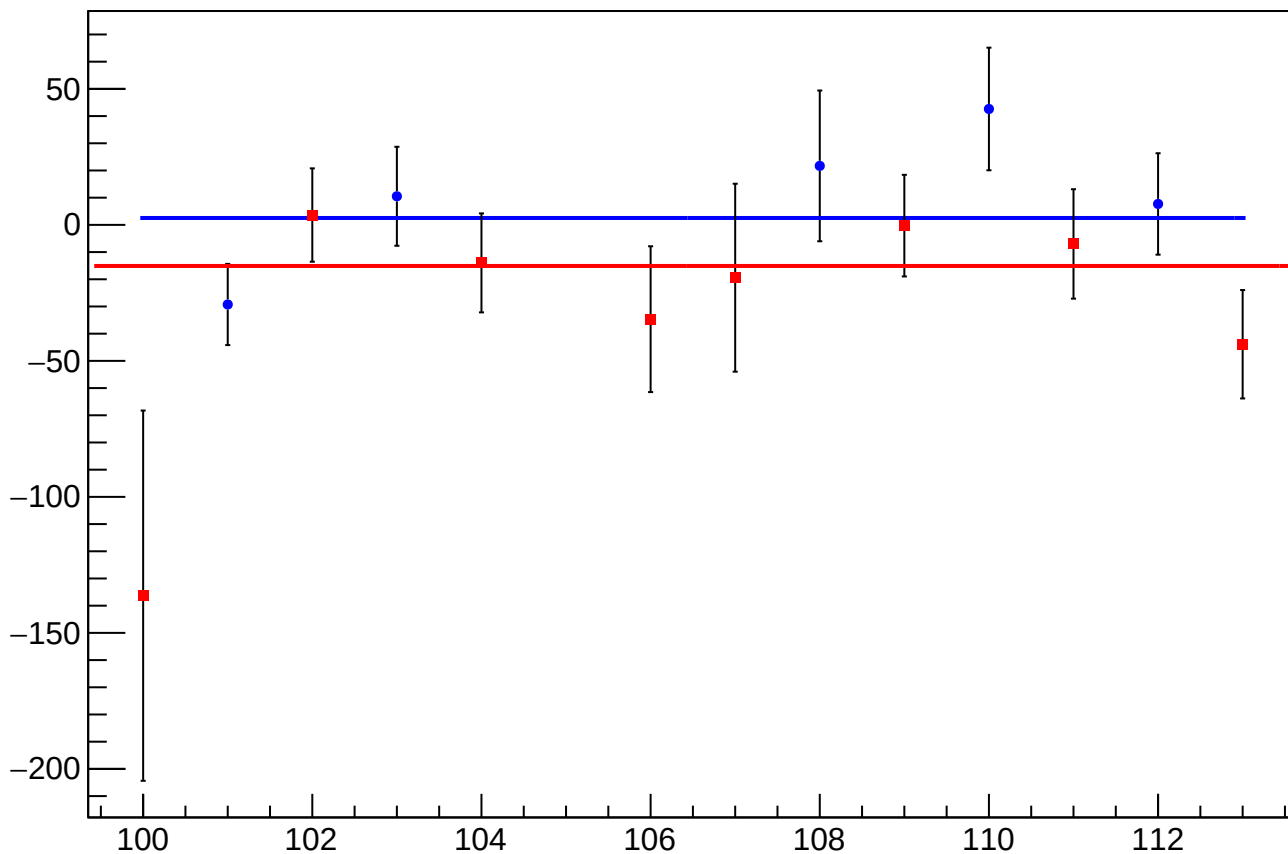
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 442.693 $\pm$ 0.130  $\chi^2$ /NDF: 11882.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

diff\_bpm\_4aX\_4eX\_avg\_mean vs Slug



Right In:  $2.539 \pm 8.557$   $\chi^2/\text{NDF}$ : 8.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-15.104 \pm 7.735$   $\chi^2/\text{NDF}$ : 7.8/7

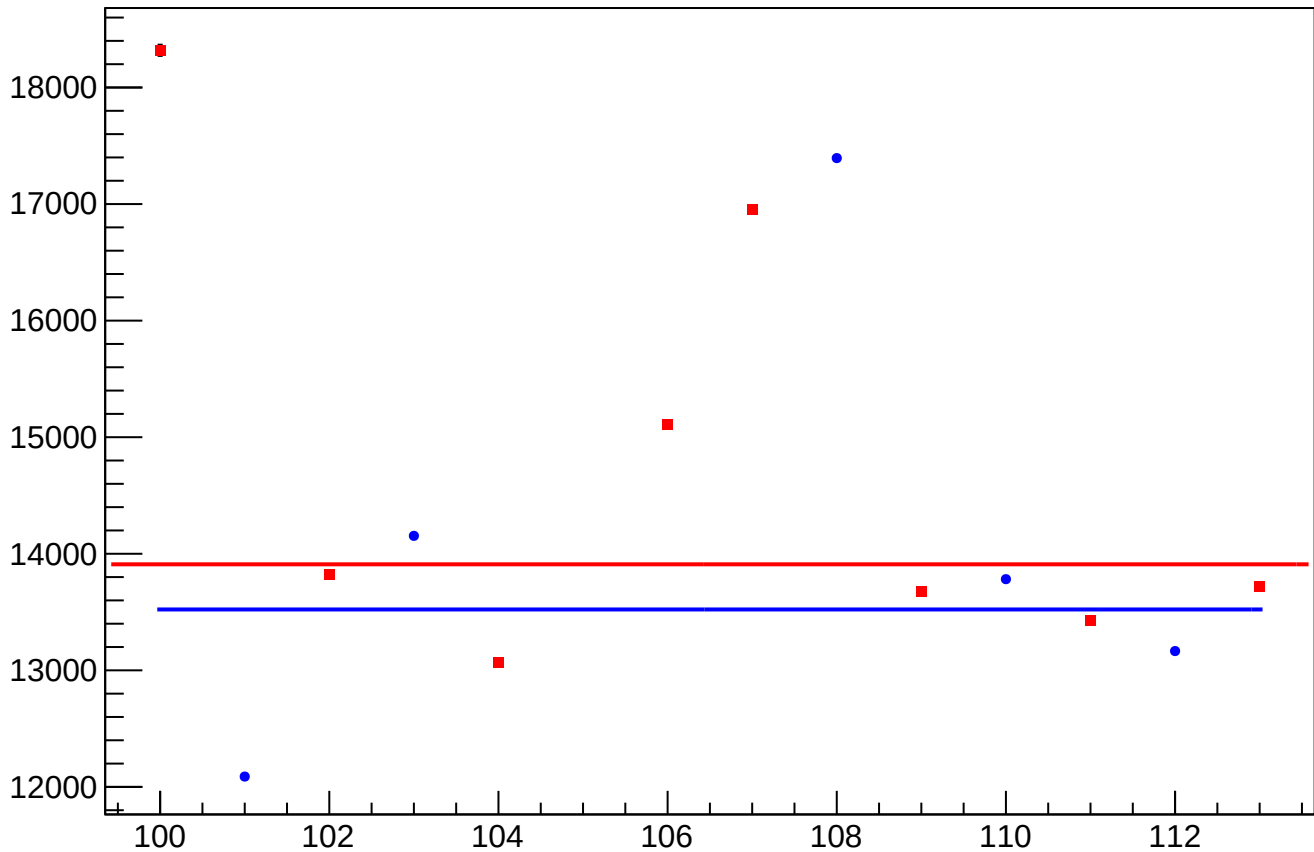
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-7.171 \pm 5.738$   $\chi^2/\text{NDF}$ : 18.6/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4eX\_avg\_rms vs Slug



Right In: 13522.252+/-6.051  $\chi^2/\text{NDF}$ : 60902.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13909.500+/-5.469  $\chi^2/\text{NDF}$ : 33819.8/7

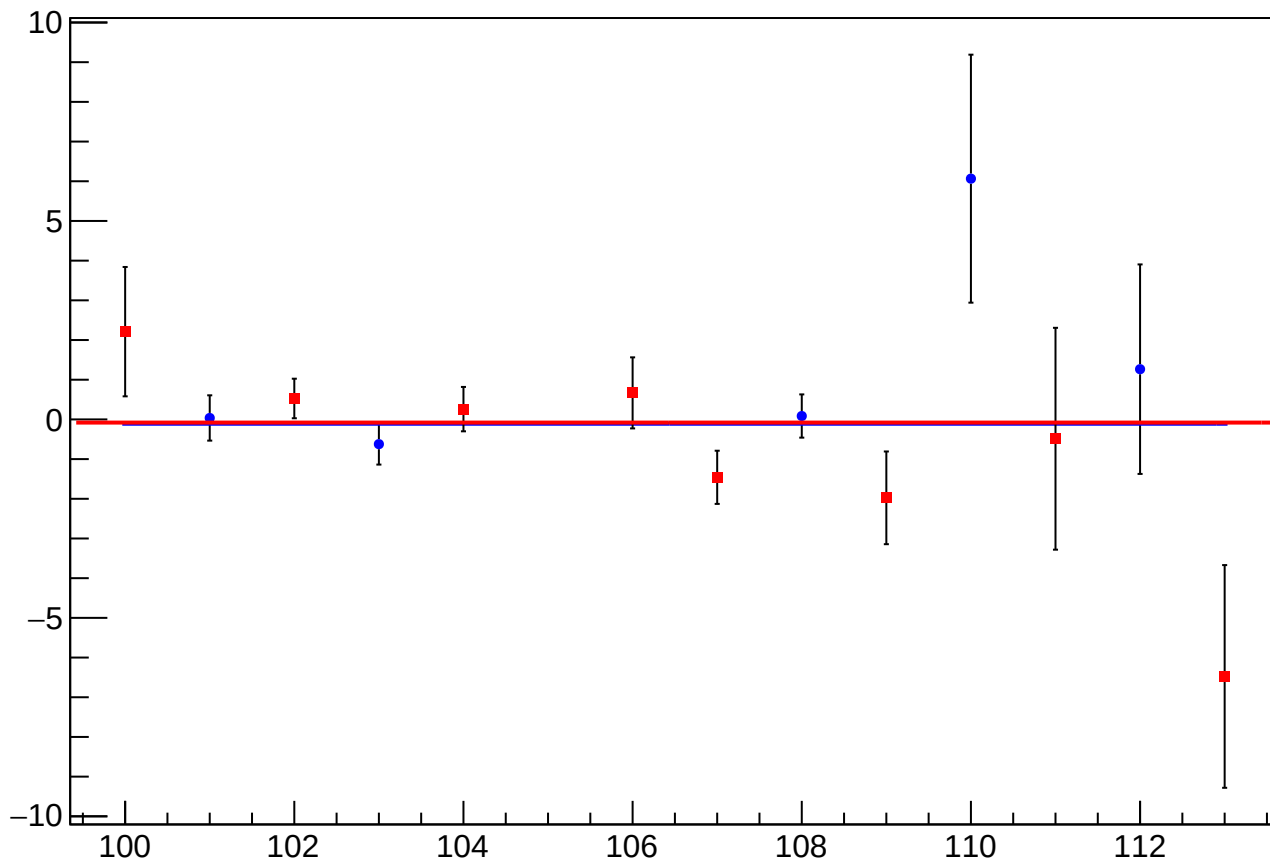
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13735.374+/-4.057  $\chi^2/\text{NDF}$ : 96976.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4eX\_dd\_mean vs Slug



Right In: -0.109 $\pm$ 0.309  $\chi^2$ /NDF: 5.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.080 $\pm$ 0.288  $\chi^2$ /NDF: 16.6/7

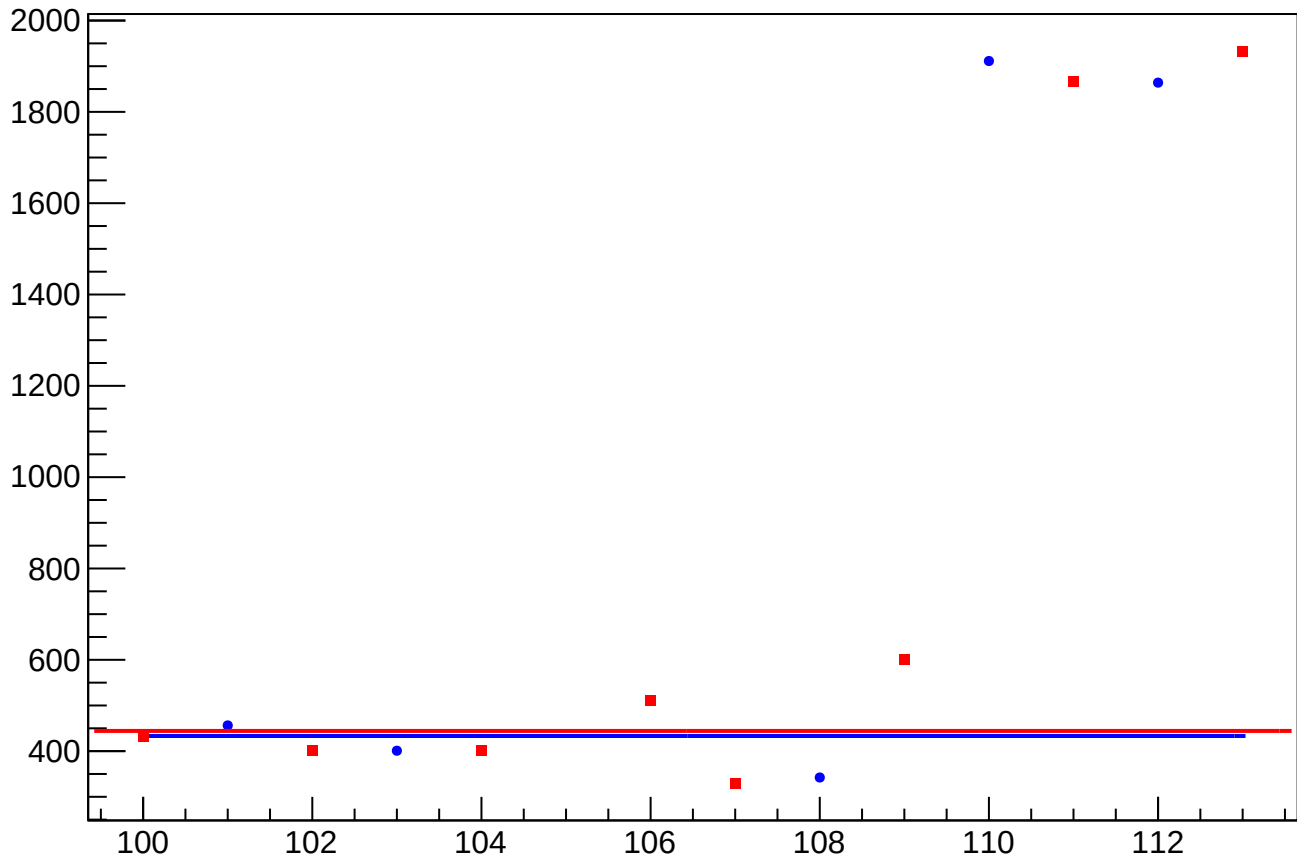
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.094 $\pm$ 0.211  $\chi^2$ /NDF: 22.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aX\_4eX\_dd\_rms vs Slug



Right In: 433.186+/-0.219  $\chi^2/\text{NDF}$ : 1102483.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 444.278+/-0.204  $\chi^2/\text{NDF}$ : 1213054.8/7

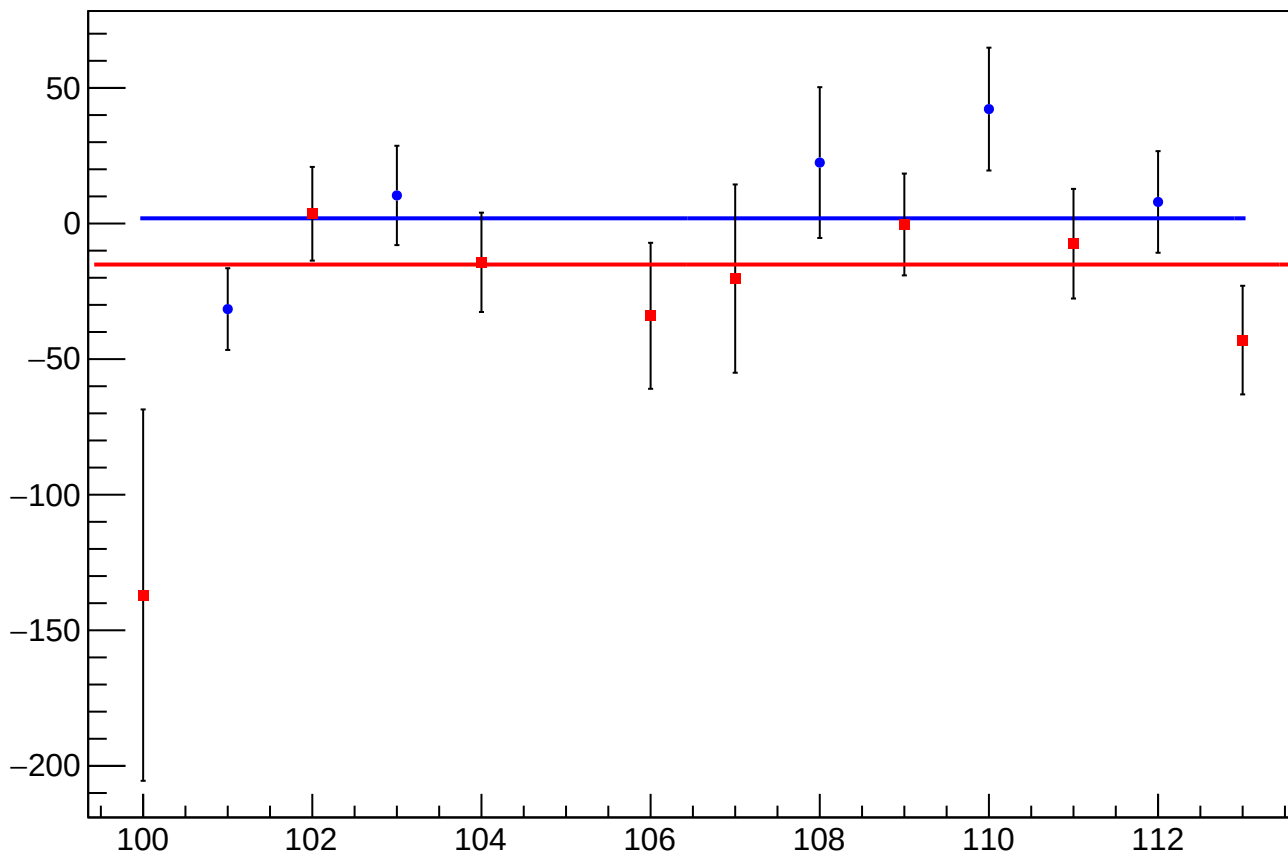
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 439.130+/-0.149  $\chi^2/\text{NDF}$ : 2316916.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4ecX\_avg\_mean vs Slug



Right In: 1.922 $\pm$ 8.614  $\chi^2$ /NDF: 9.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -15.121 $\pm$ 7.778  $\chi^2$ /NDF: 7.6/7

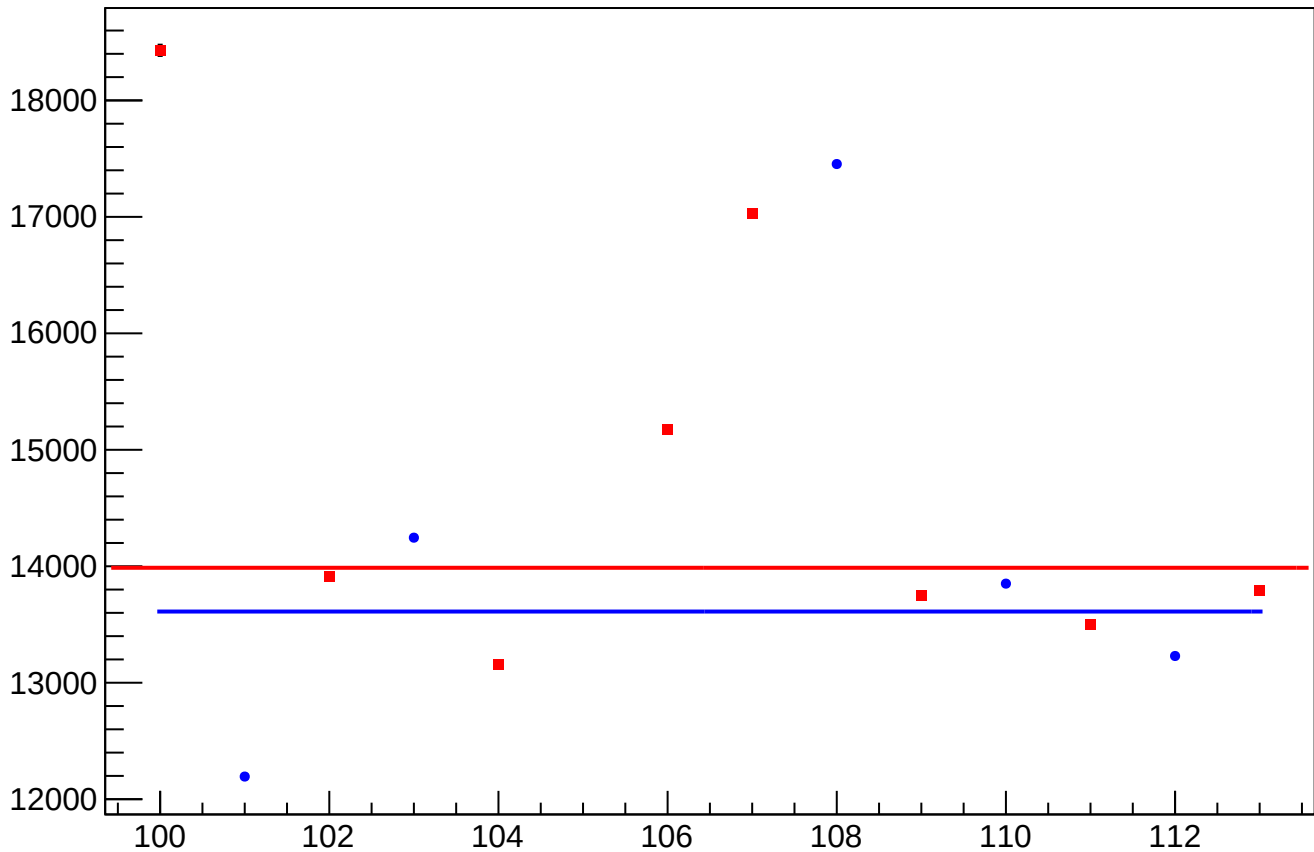
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -7.467 $\pm$ 5.773  $\chi^2$ /NDF: 18.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aX\_4ecX\_avg\_rms vs Slug



Right In: 13611.318 $\pm$ 6.091  $\chi^2$ /NDF: 59325.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13987.043 $\pm$ 5.500  $\chi^2$ /NDF: 33565.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

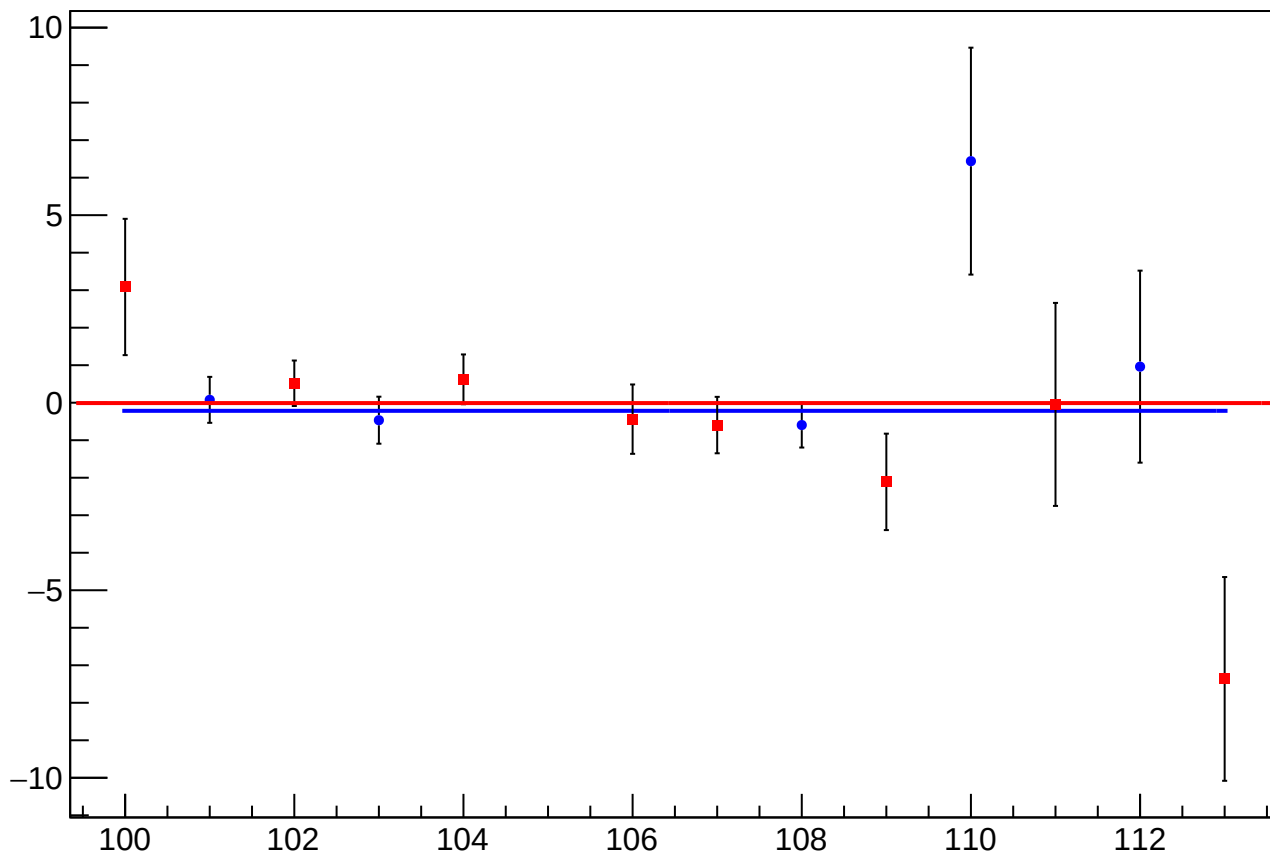
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 13818.299 $\pm$ 4.082  $\chi^2$ /NDF: 94987.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm\_4aX\_4ecX\_dd\_mean vs Slug



Right In:  $-0.217 \pm 0.348$   $\chi^2/\text{NDF}$ : 5.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.010 \pm 0.331$   $\chi^2/\text{NDF}$ : 15.4/7

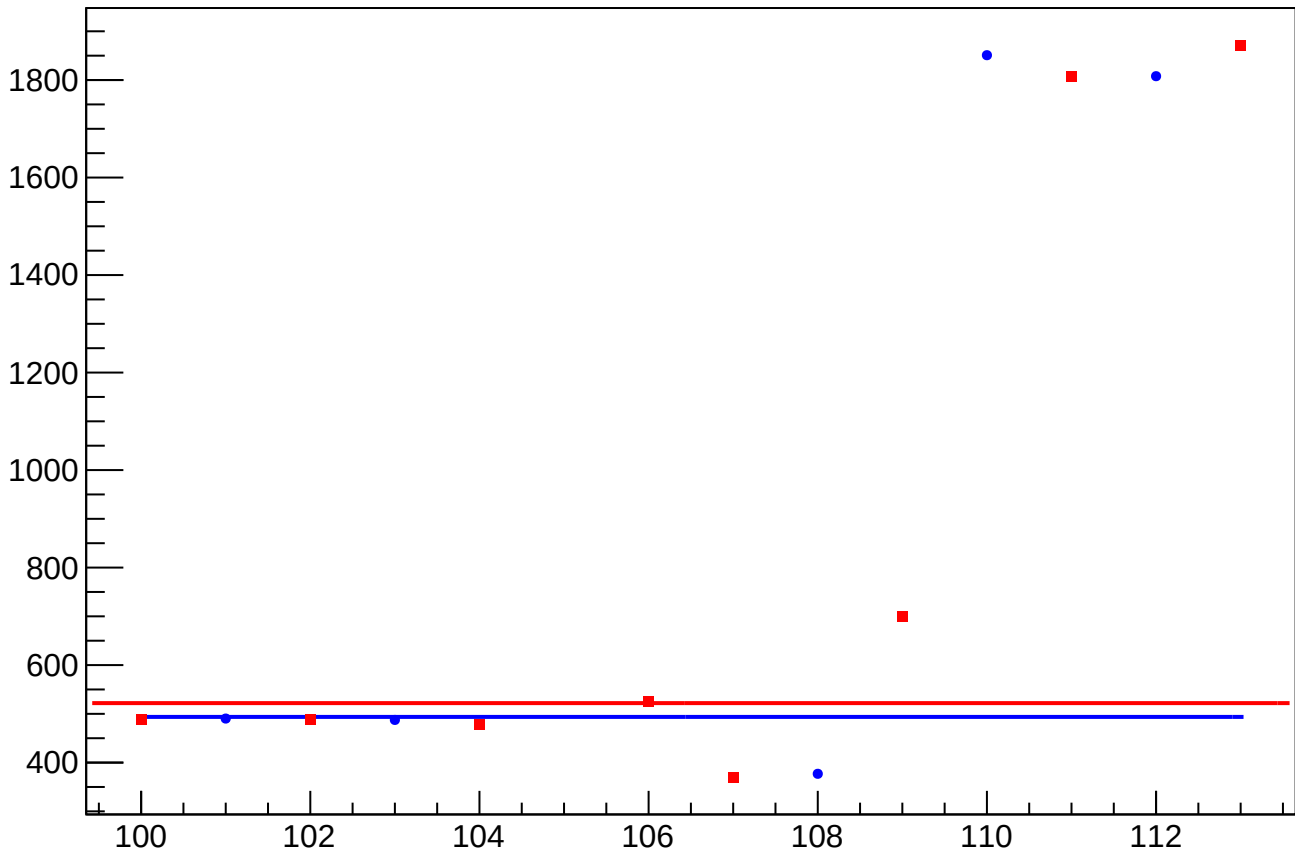
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.108 \pm 0.240$   $\chi^2/\text{NDF}$ : 21.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4ecX\_dd\_rms vs Slug



Right In: 493.711+/-0.246  $\chi^2/\text{NDF}$ : 1005768.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

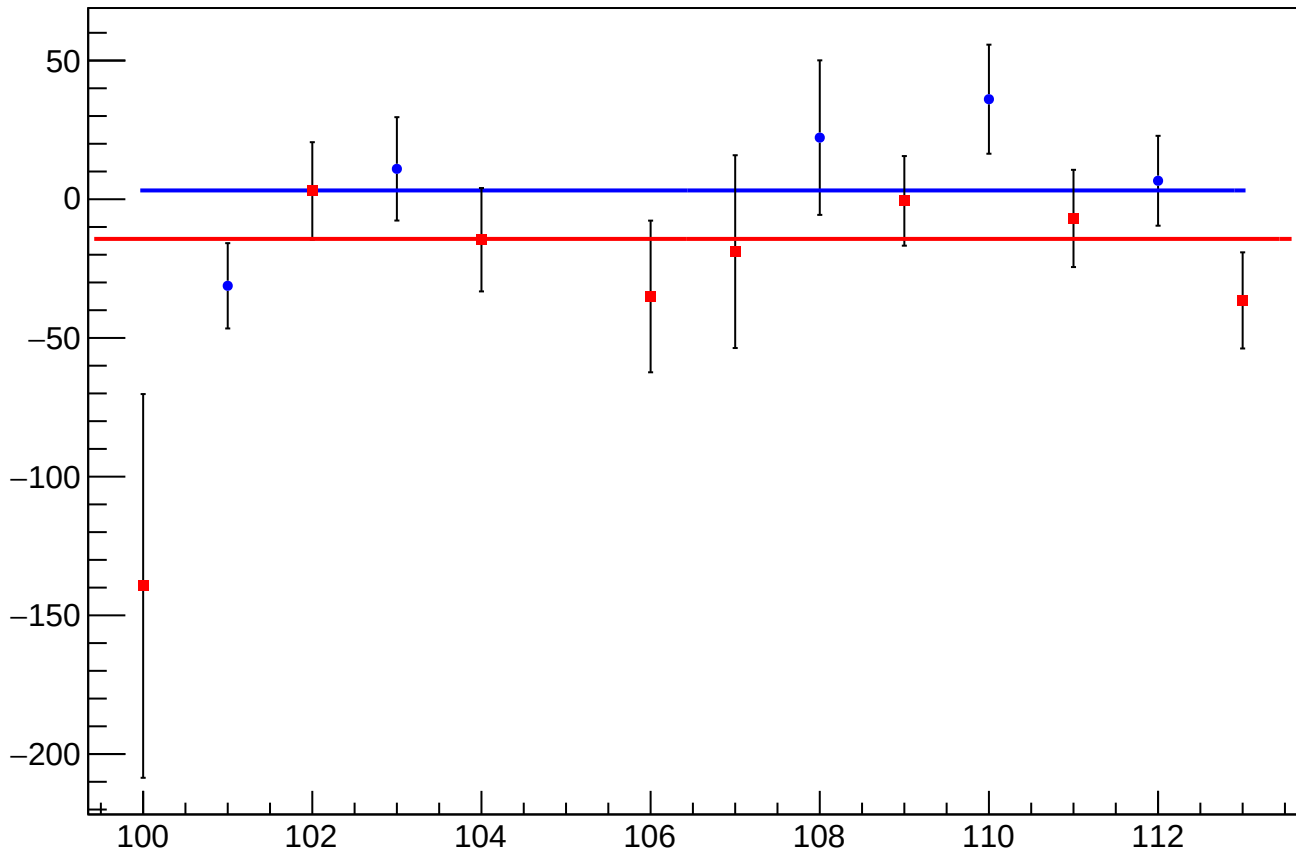
Right Out: 522.006+/-0.234  $\chi^2/\text{NDF}$ : 1080484.6/7

All: 508.558+/-0.170  $\chi^2/\text{NDF}$ : 2093184.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4eX\_4ecX\_avg\_mean vs Slug



Right In: 3.173+/-8.221  $\chi^2/\text{NDF}$ : 8.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14.296+/-7.273  $\chi^2/\text{NDF}$ : 7.4/7

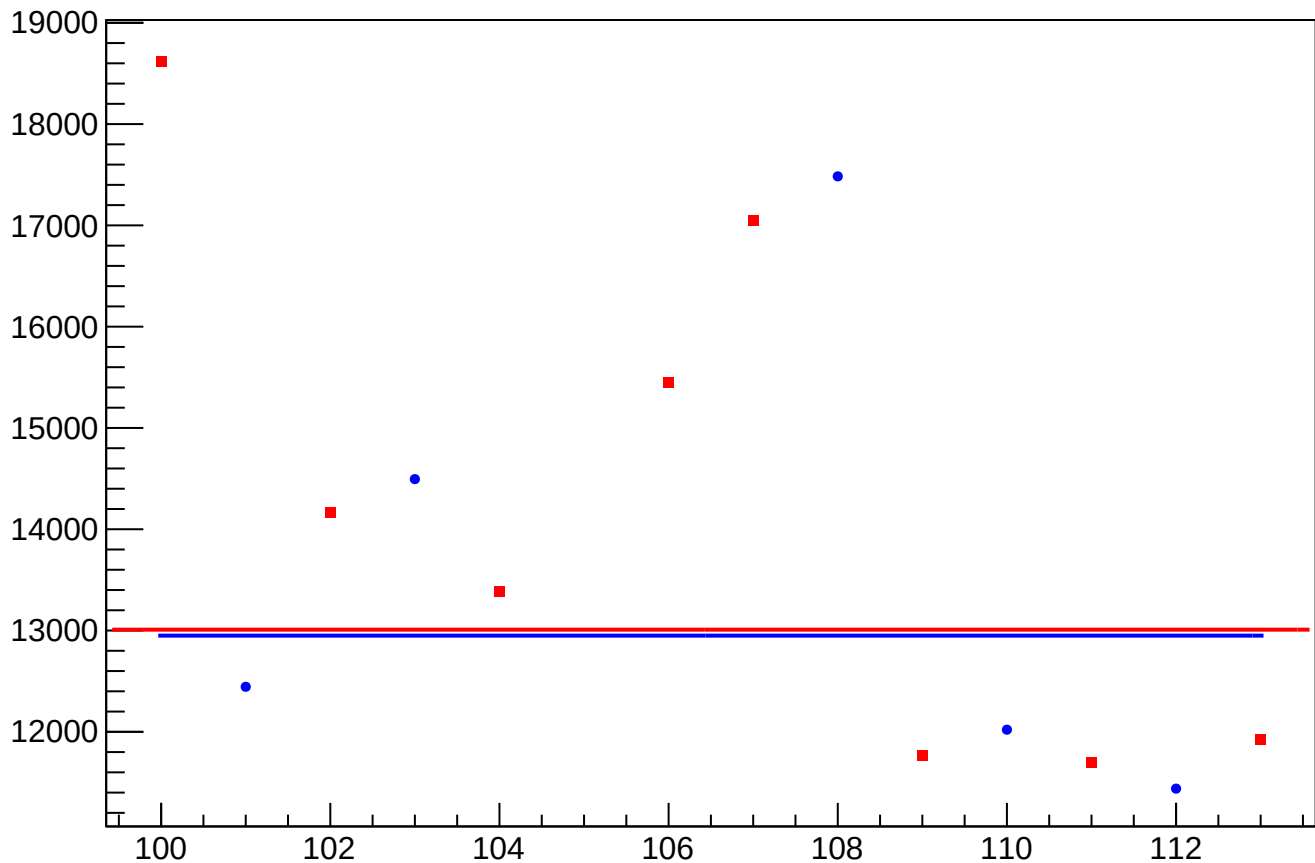
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.627+/-5.447  $\chi^2/\text{NDF}$ : 18.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

diff\_bpm\_4eX\_4ecX\_avg\_rms vs Slug



Right In: 12949.636+/-5.813  $\chi^2/\text{NDF}$ : 90762.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13008.593+/-5.142  $\chi^2/\text{NDF}$ : 96276.6/7

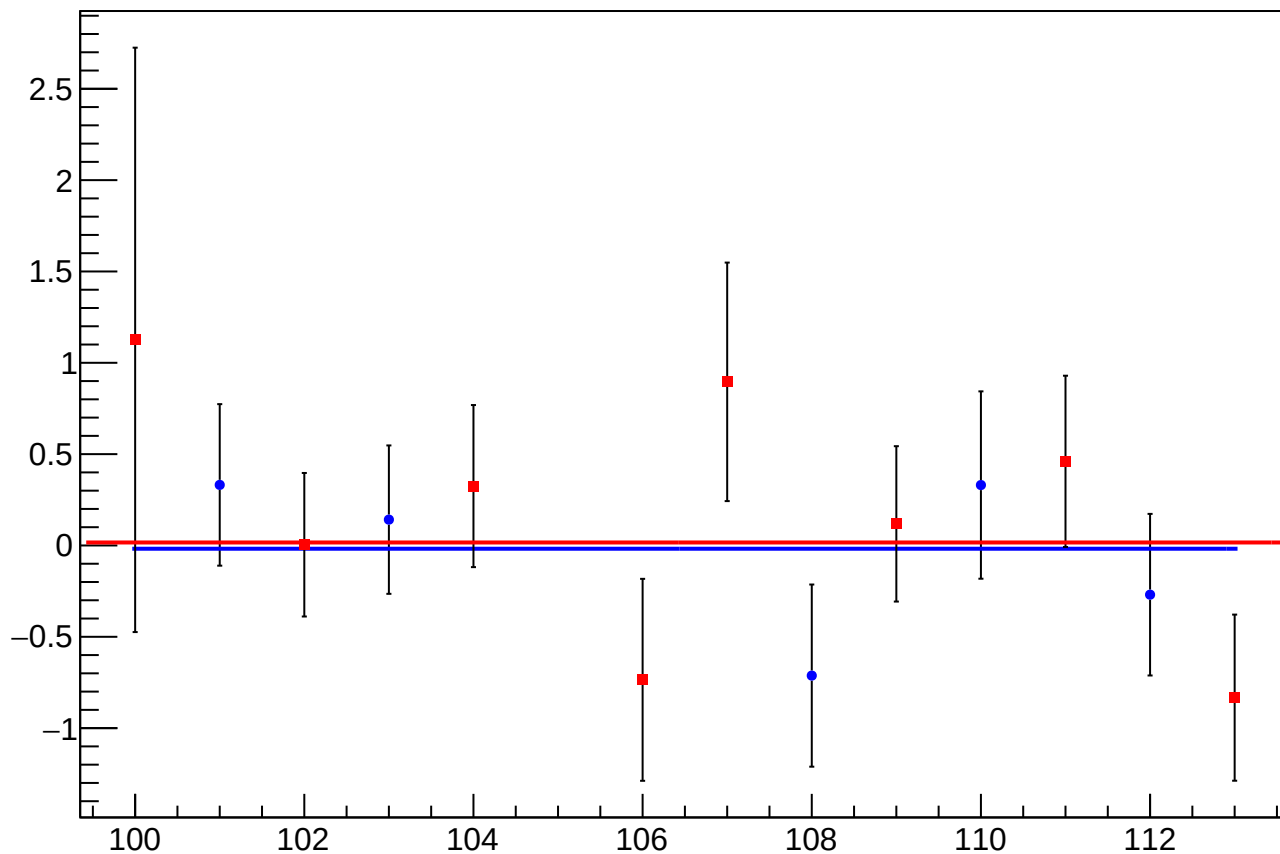
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12982.709+/-3.852  $\chi^2/\text{NDF}$ : 187096.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4eX\_4ecX\_dd\_mean vs Slug



Right In:  $-0.018 \pm 0.204$   $\chi^2/\text{NDF}$ : 3.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.016 \pm 0.175$   $\chi^2/\text{NDF}$ : 9.1/7

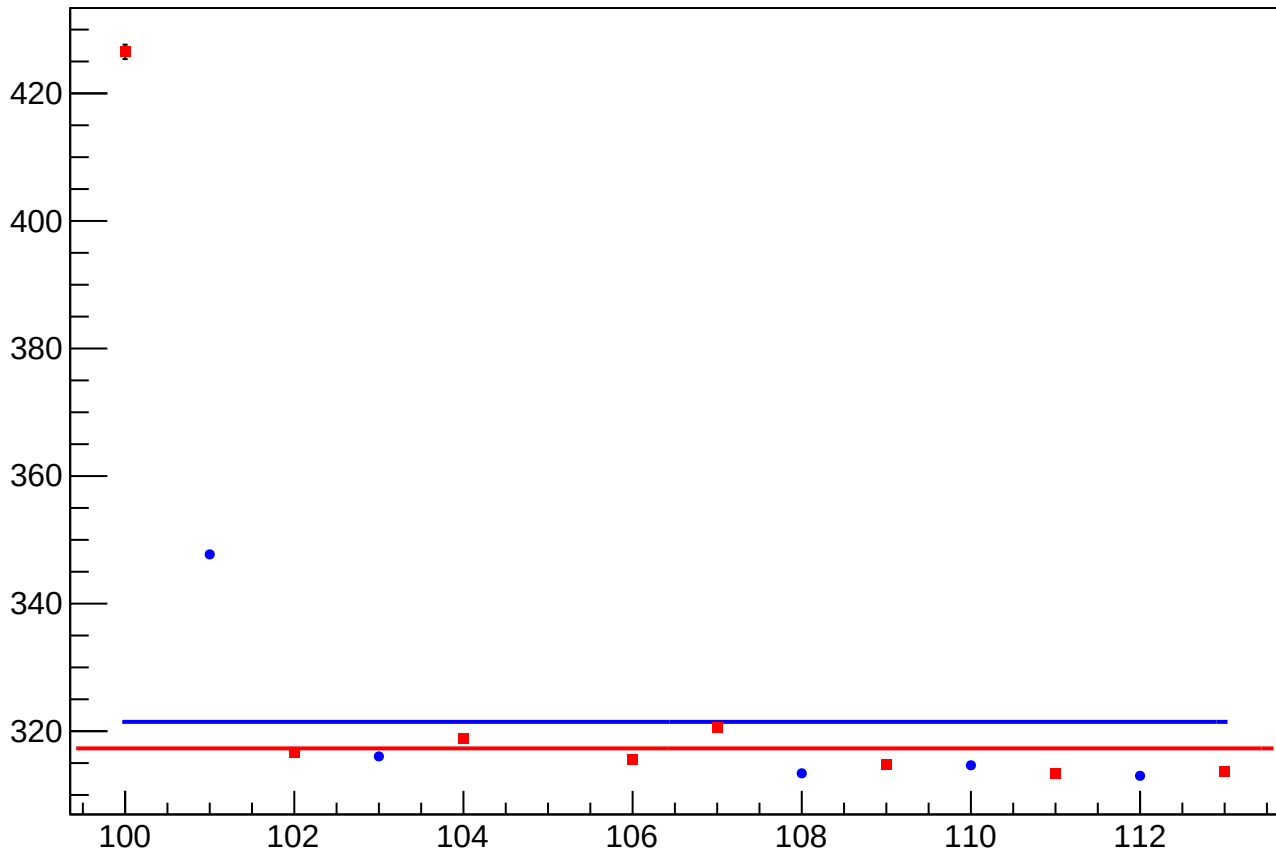
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.002 \pm 0.133$   $\chi^2/\text{NDF}$ : 12.6/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4eX\_4ecX\_dd\_rms vs Slug



Right In: 321.459 $\pm$ 0.144  $\chi^2$ /NDF: 9016.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 317.300 $\pm$ 0.124  $\chi^2$ /NDF: 9750.7/7

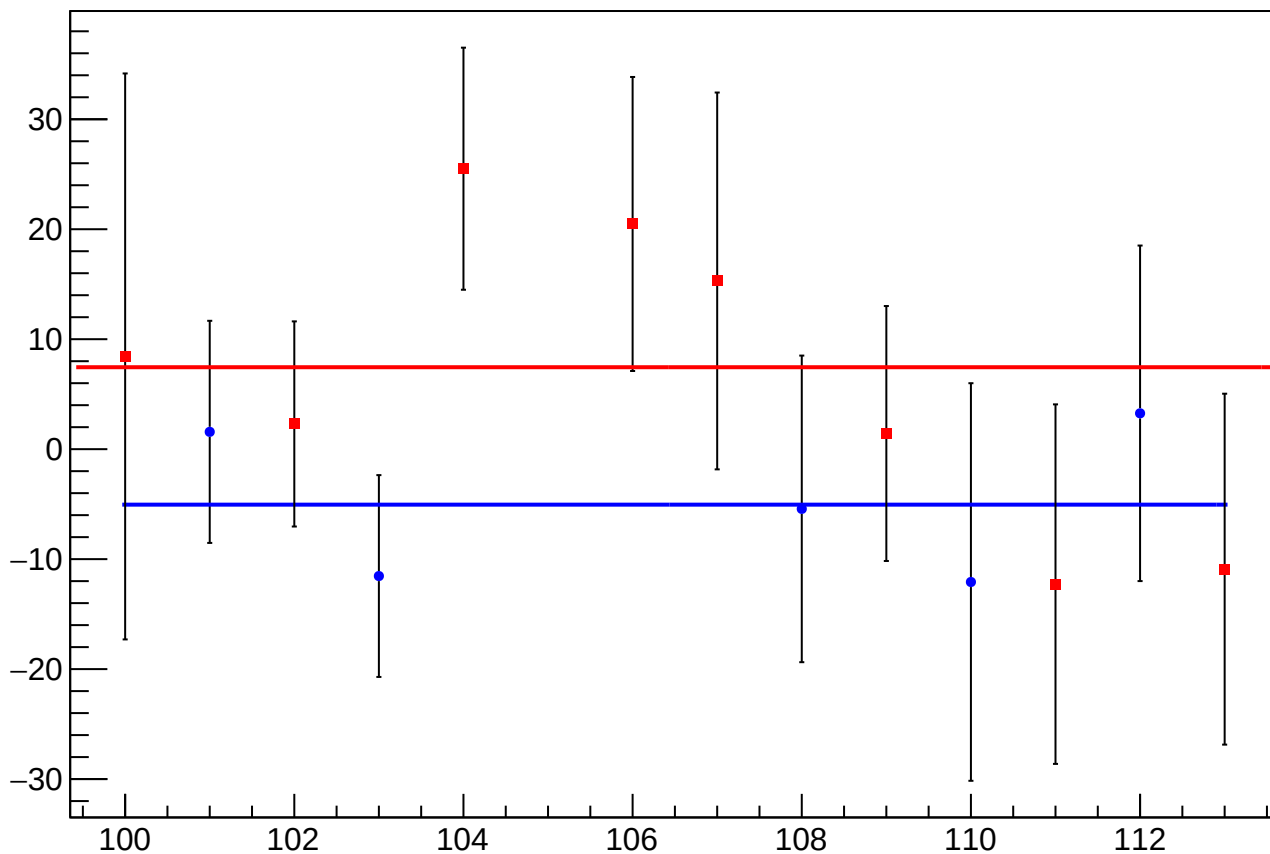
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 319.072 $\pm$ 0.094  $\chi^2$ /NDF: 19246.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4acY\_avg\_mean vs Slug



Right In: -5.046±/5.409  $\chi^2/\text{NDF}$ : 1.4/4

Left Out: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.452±/4.695  $\chi^2/\text{NDF}$ : 7.2/7

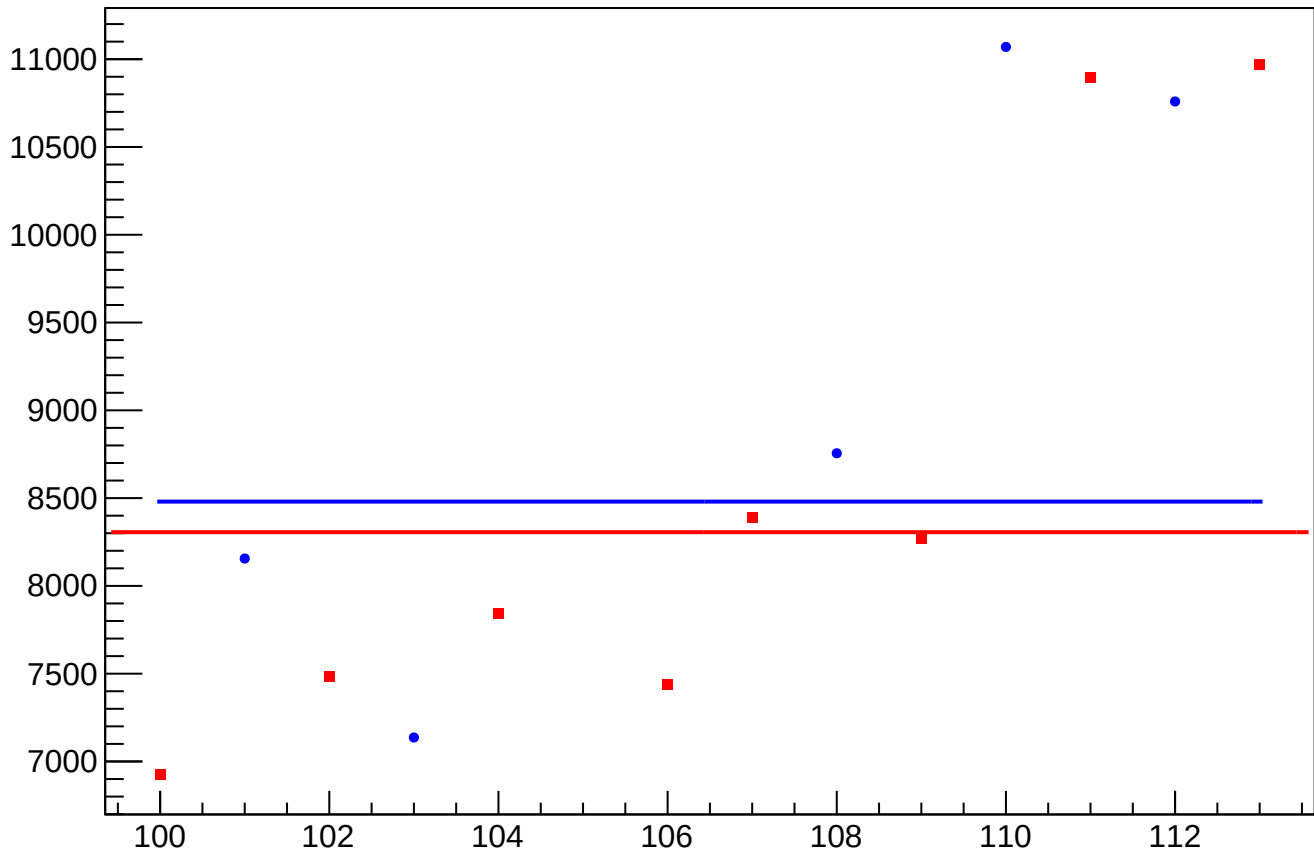
Left In: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.082±/3.545  $\chi^2/\text{NDF}$ : 11.6/12

- sign 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aY\_4acY\_avg\_rms vs Slug



Right In: 8480.100 $\pm$ 3.825  $\chi^2$ /NDF: 131400.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8305.922 $\pm$ 3.320  $\chi^2$ /NDF: 139094.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

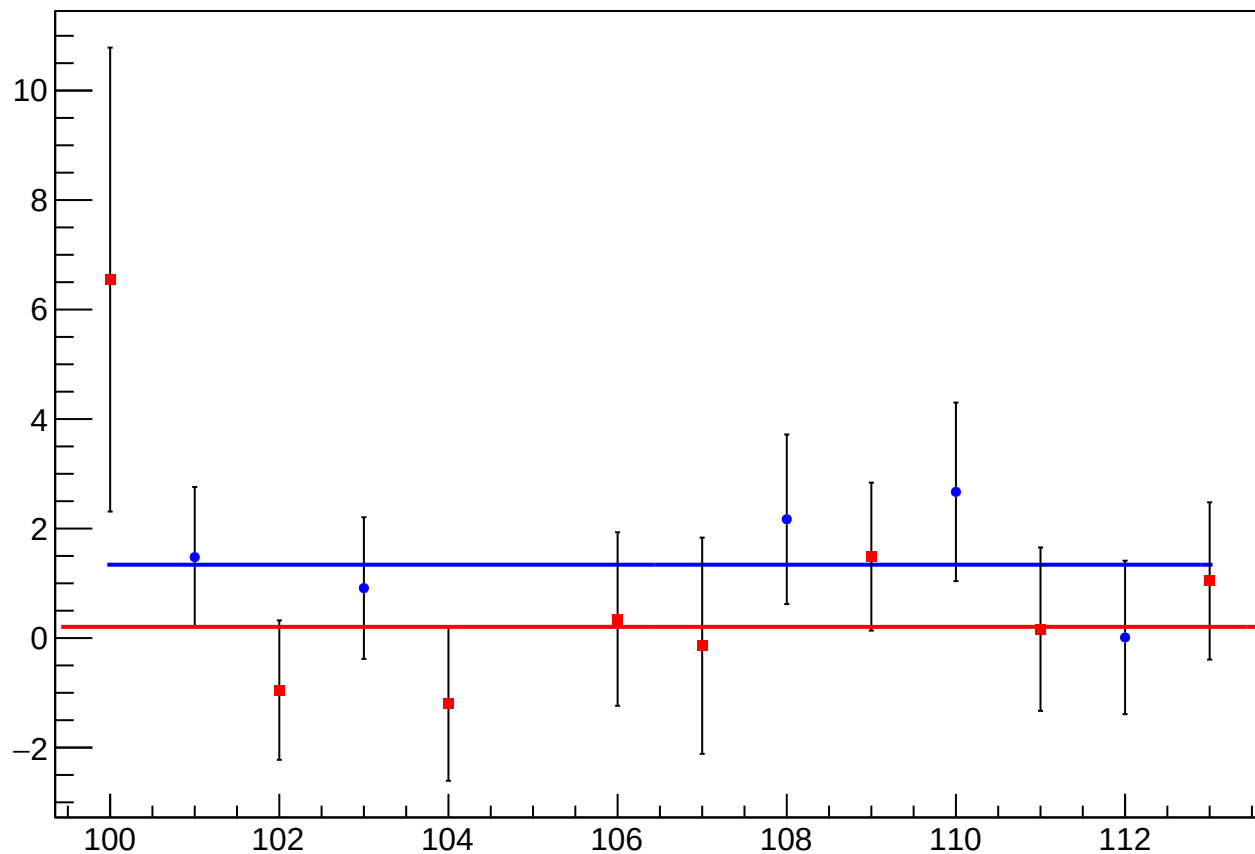
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8380.759 $\pm$ 2.507  $\chi^2$ /NDF: 271678.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm\_4aY\_4acY\_dd\_mean vs Slug



Right In: 1.340 $\pm$ 0.631  $\chi^2$ /NDF: 2.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.204 $\pm$ 0.550  $\chi^2$ /NDF: 5.3/7

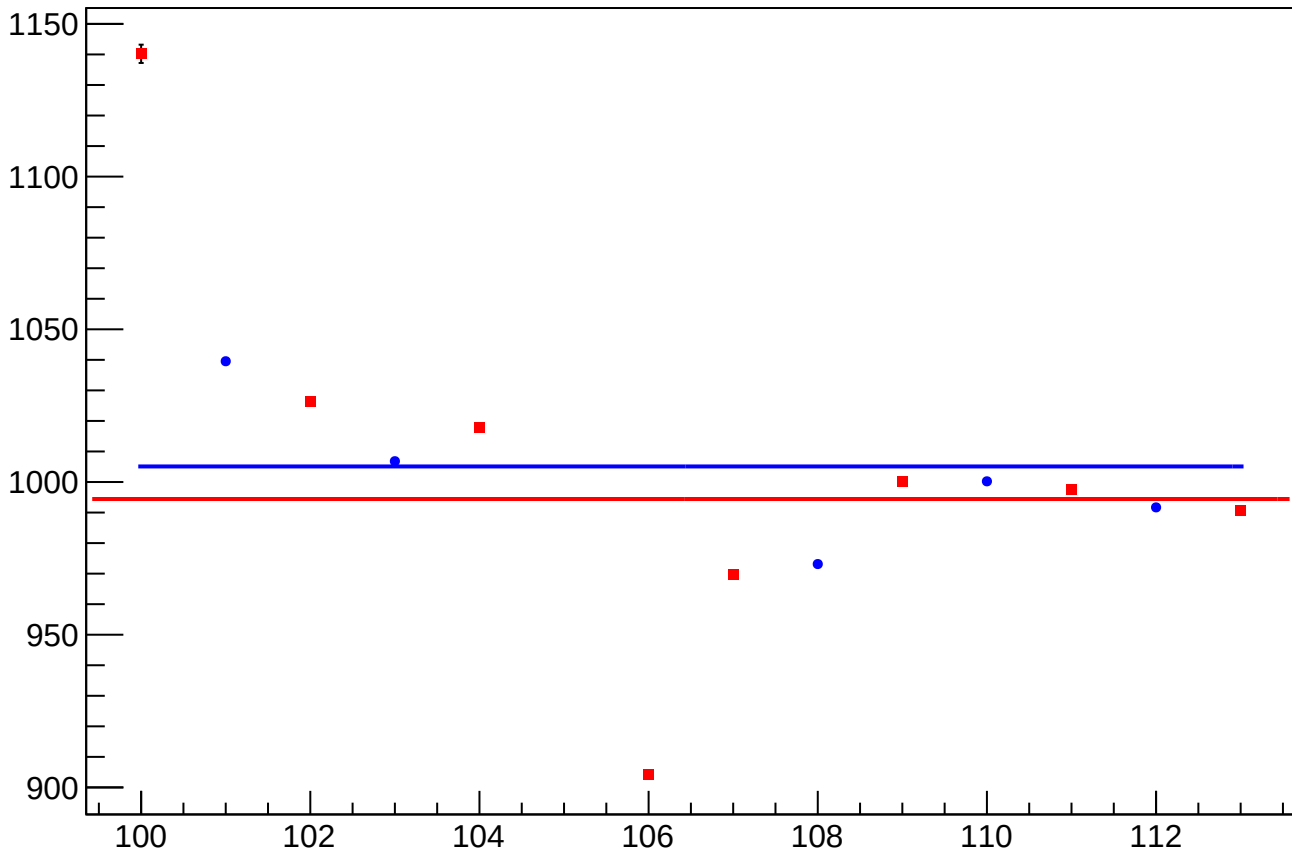
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.694 $\pm$ 0.415  $\chi^2$ /NDF: 9.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4acY\_dd\_rms vs Slug



Right In: 1005.096 $\pm$ 0.446  $\chi^2$ /NDF: 2500.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 994.437 $\pm$ 0.389  $\chi^2$ /NDF: 11019.1/7

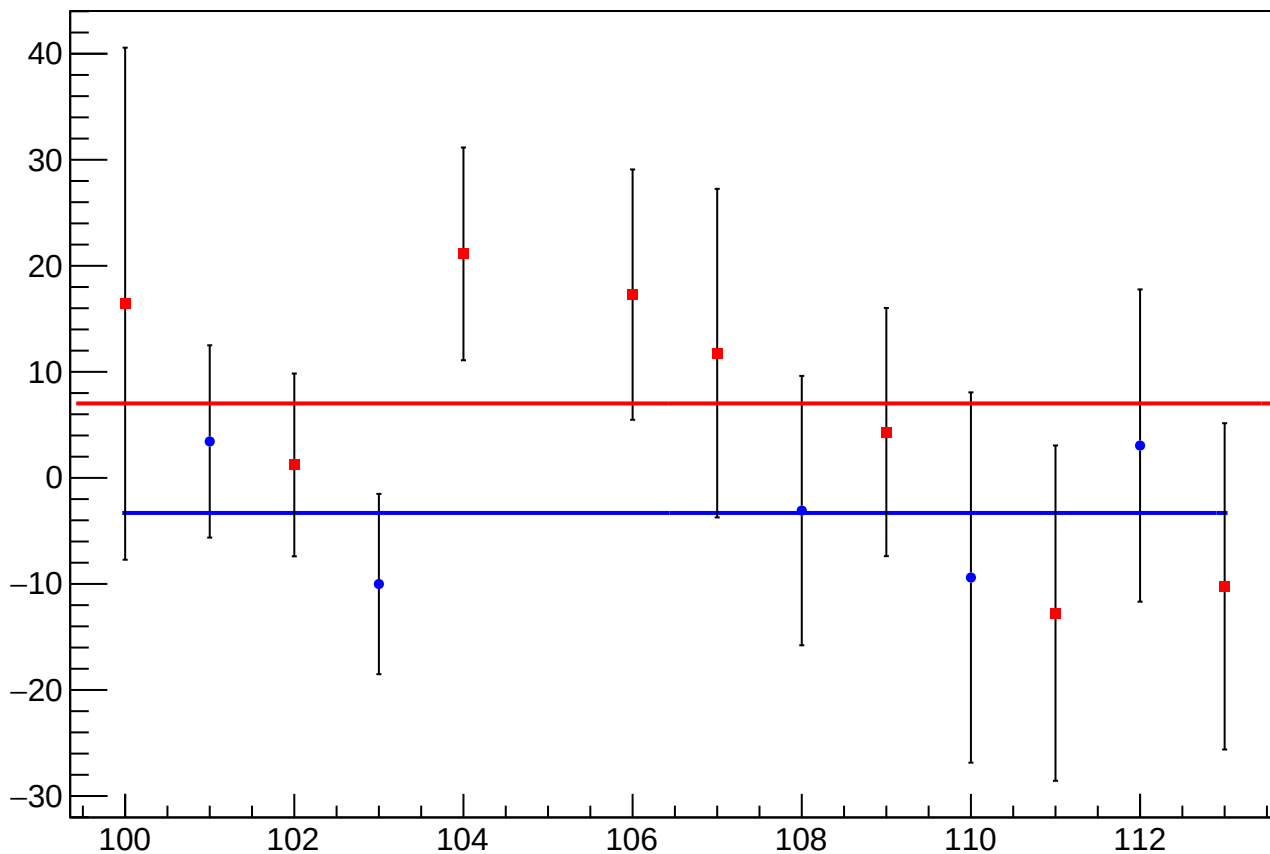
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 999.032 $\pm$ 0.293  $\chi^2$ /NDF: 13843.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4eY\_avg\_mean vs Slug



Right In: -3.306+/-4.995  $\chi^2/\text{NDF}$ : 1.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.021+/-4.386  $\chi^2/\text{NDF}$ : 6.3/7

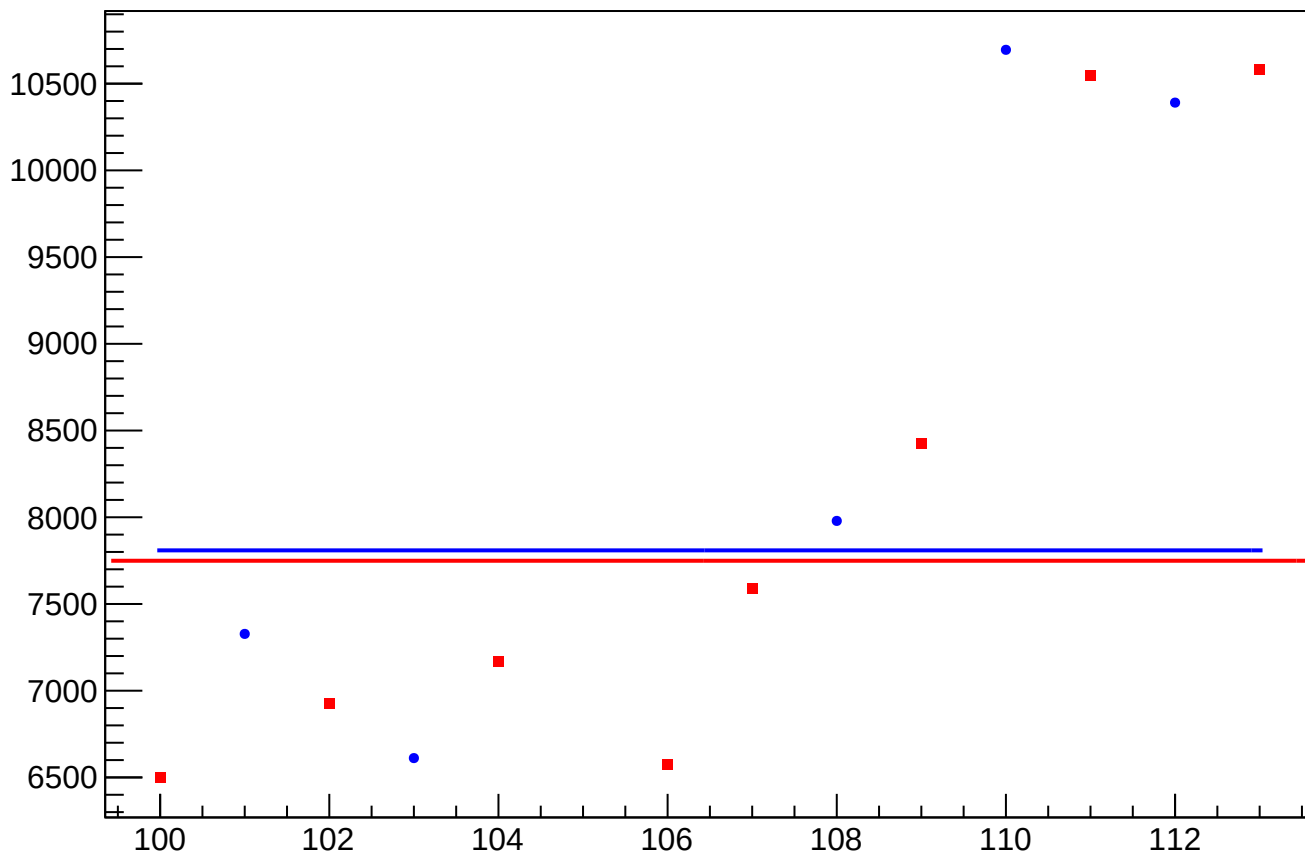
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.525+/-3.296  $\chi^2/\text{NDF}$ : 10.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aY\_4eY\_avg\_rms vs Slug



Right In: 7809.150+/-3.532  $\chi^2/\text{NDF}$ : 161786.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7749.273+/-3.101  $\chi^2/\text{NDF}$ : 187306.2/7

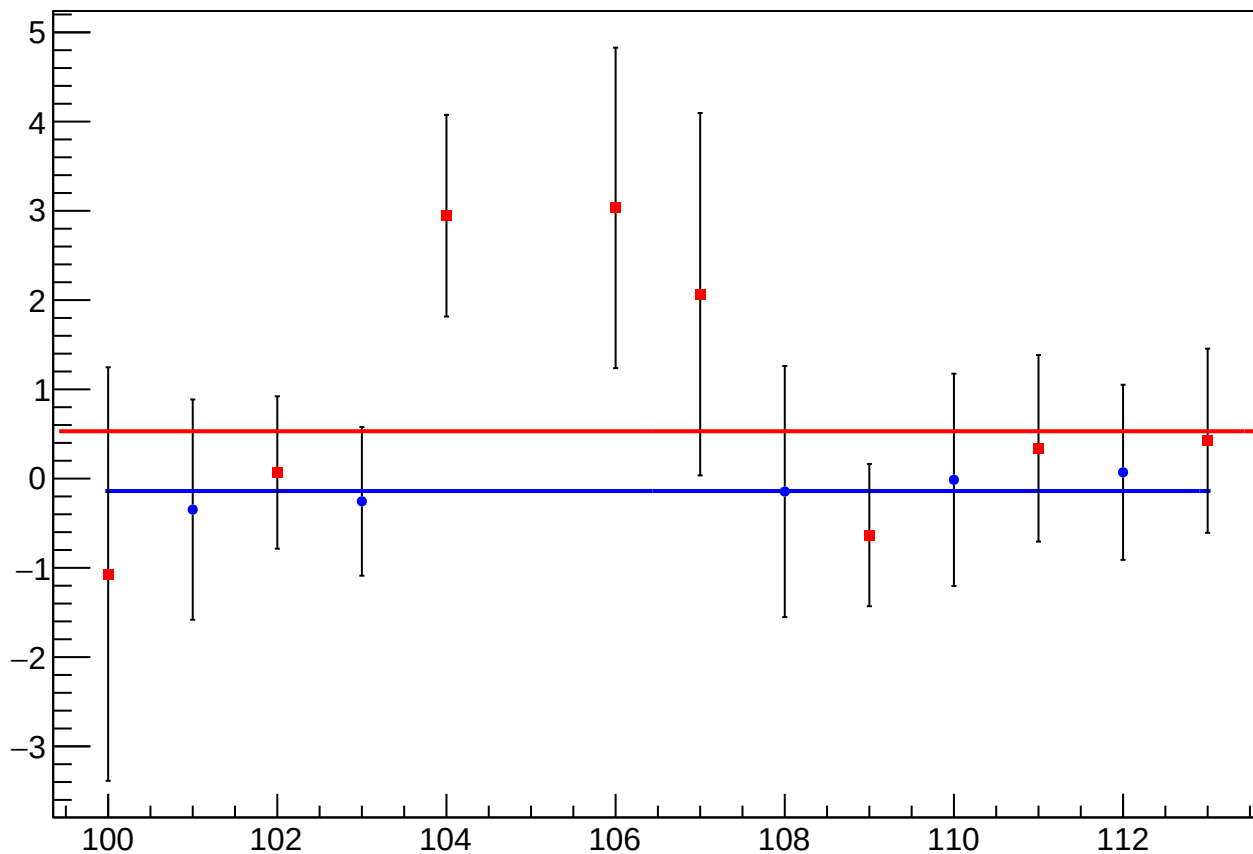
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7775.343+/-2.330  $\chi^2/\text{NDF}$ : 349254.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aY\_4eY\_dd\_mean vs Slug



Right In: -0.139+/-0.480  $\chi^2/\text{NDF}$ : 0.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.531+/-0.398  $\chi^2/\text{NDF}$ : 10.0/7

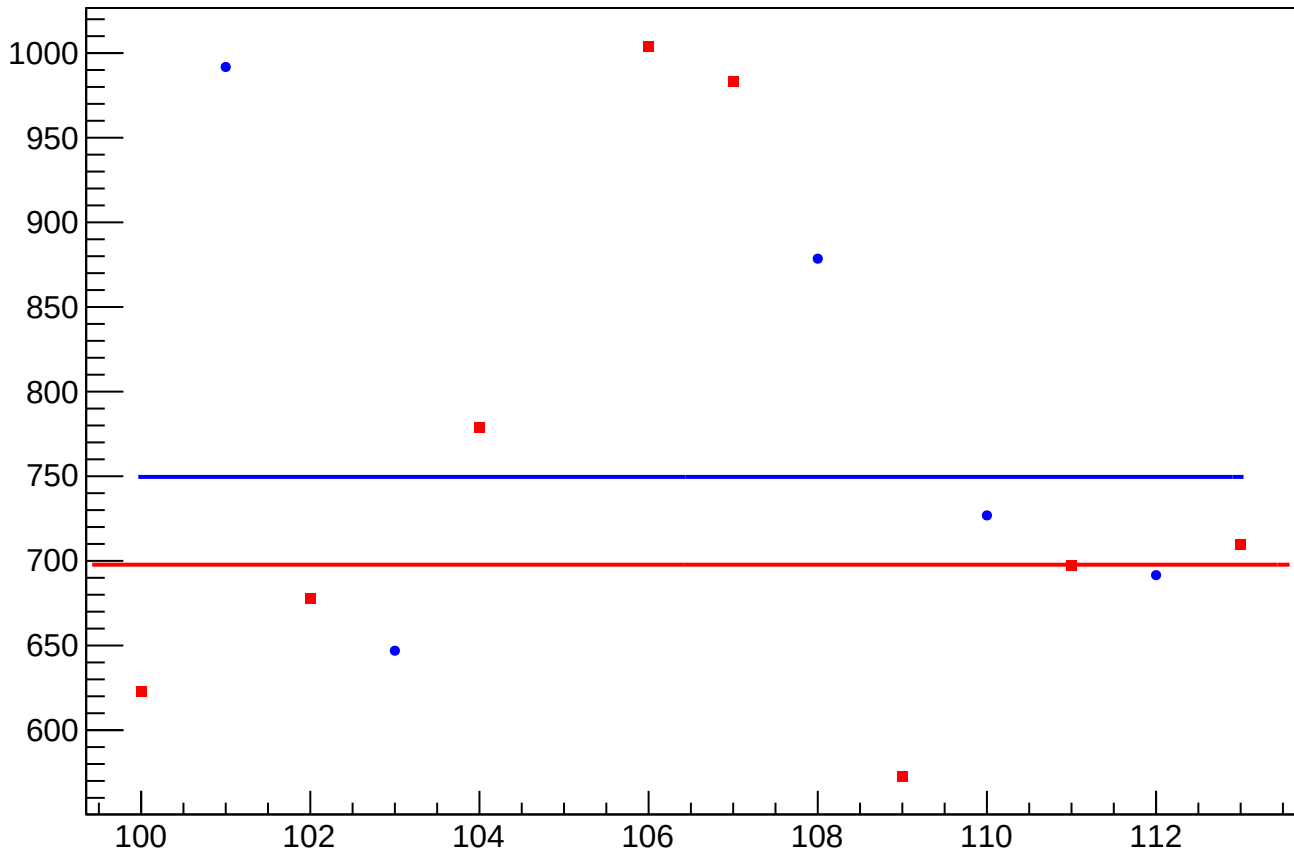
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.258+/-0.306  $\chi^2/\text{NDF}$ : 11.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aY\_4eY\_dd\_rms vs Slug



Right In: 749.618 $\pm$ 0.339  $\chi^2$ /NDF: 131930.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 697.756 $\pm$ 0.281  $\chi^2$ /NDF: 160940.8/7

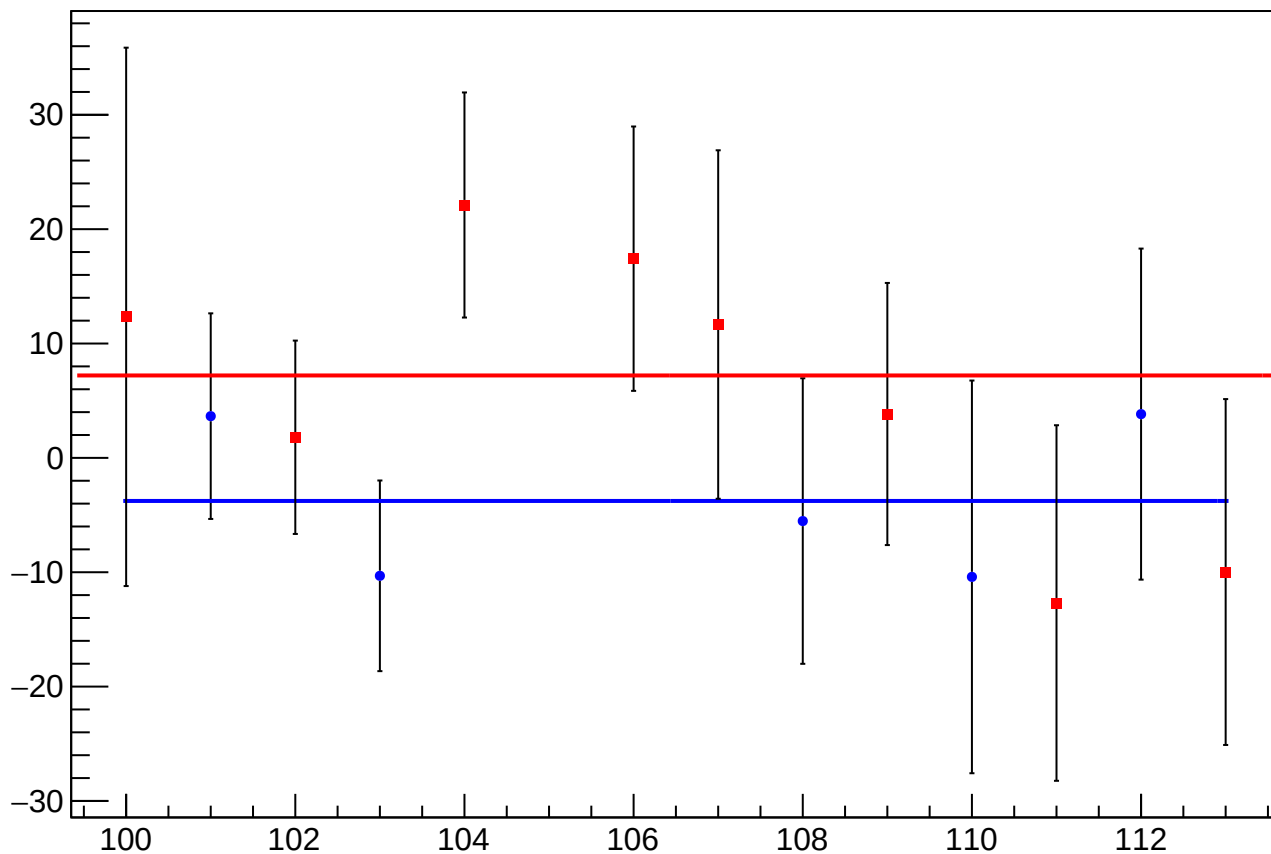
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 718.886 $\pm$ 0.216  $\chi^2$ /NDF: 306730.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4ecY\_avg\_mean vs Slug



Right In: -3.767+/-4.918  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.207+/-4.302  $\chi^2/\text{NDF}$ : 6.6/7

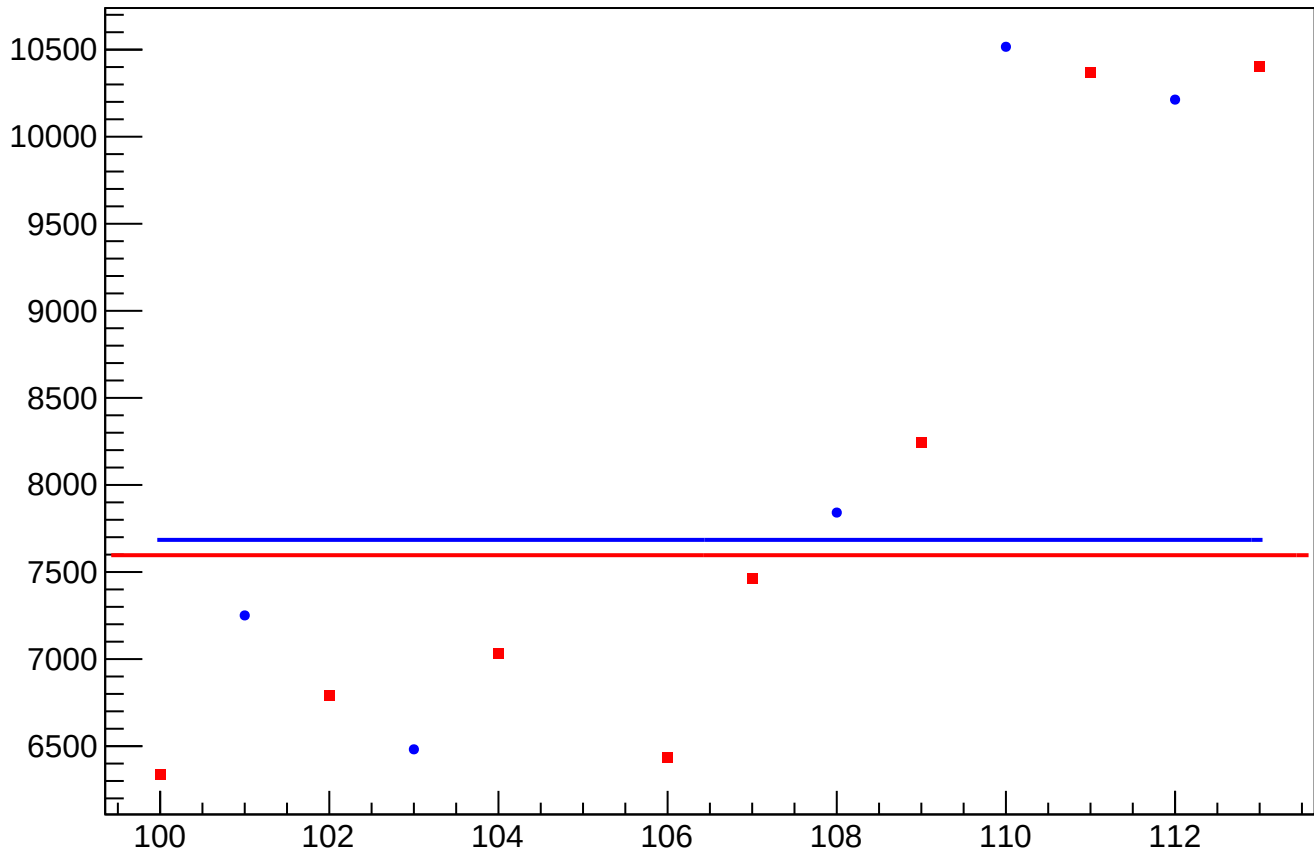
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.450+/-3.238  $\chi^2/\text{NDF}$ : 11.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aY\_4ecY\_avg\_rms vs Slug



Right In: 7684.614 $\pm$ 3.477  $\chi^2$ /NDF: 162043.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7596.610 $\pm$ 3.042  $\chi^2$ /NDF: 189580.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

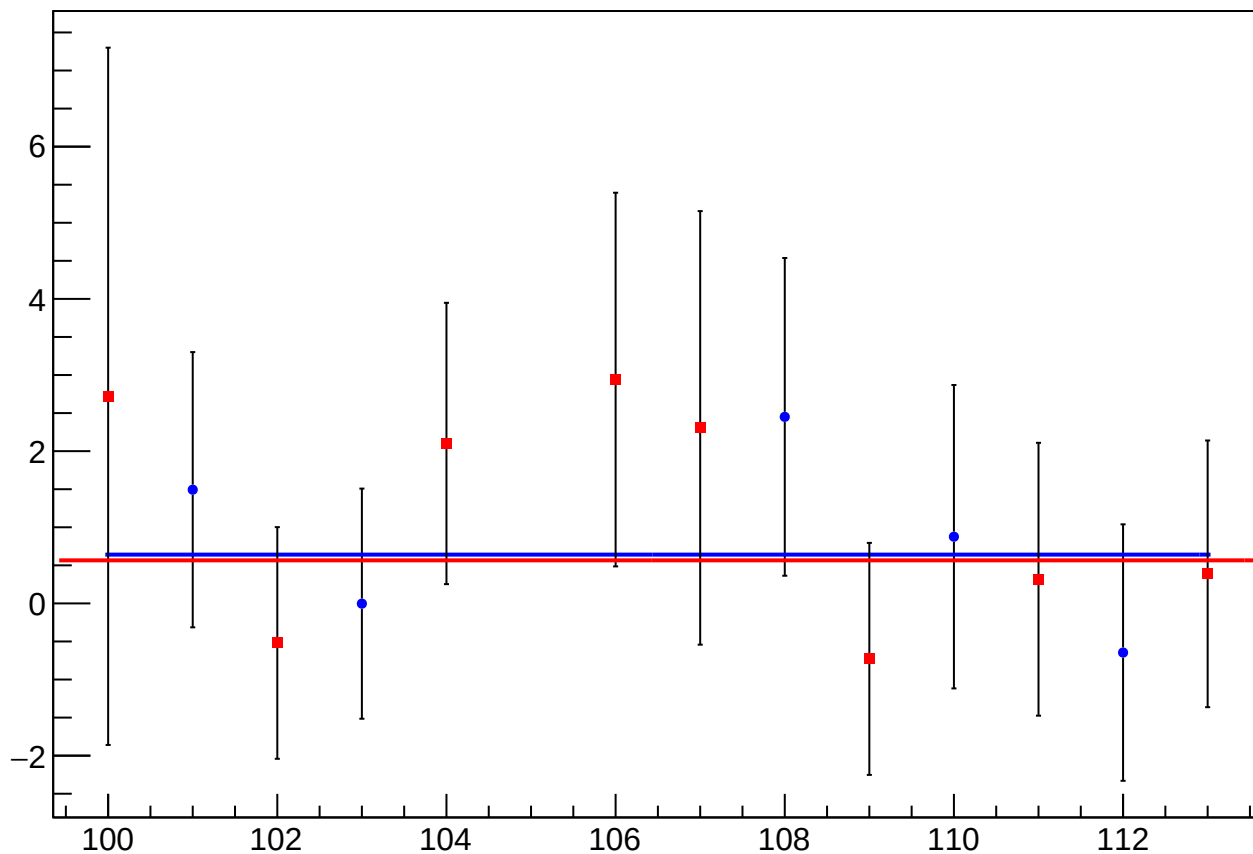
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7634.758 $\pm$ 2.290  $\chi^2$ /NDF: 351986.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm\_4aY\_4ecY\_dd\_mean vs Slug



Right In: 0.641 $\pm$ 0.796  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.566 $\pm$ 0.685  $\chi^2$ /NDF: 3.5/7

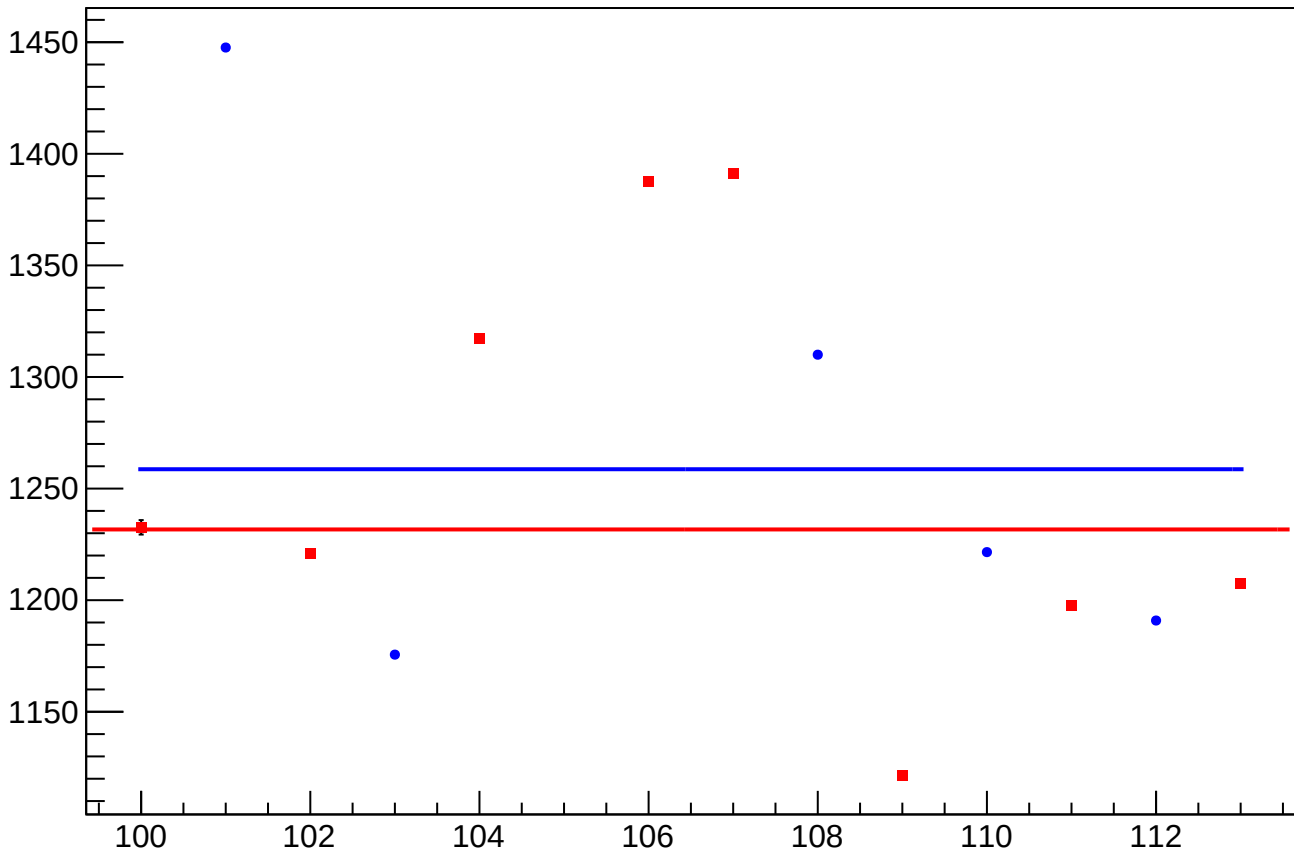
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.598 $\pm$ 0.519  $\chi^2$ /NDF: 5.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4ecY\_dd\_rms vs Slug



Right In: 1258.671 $\pm$ 0.563  $\chi^2$ /NDF: 33028.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1231.693 $\pm$ 0.485  $\chi^2$ /NDF: 30299.8/7

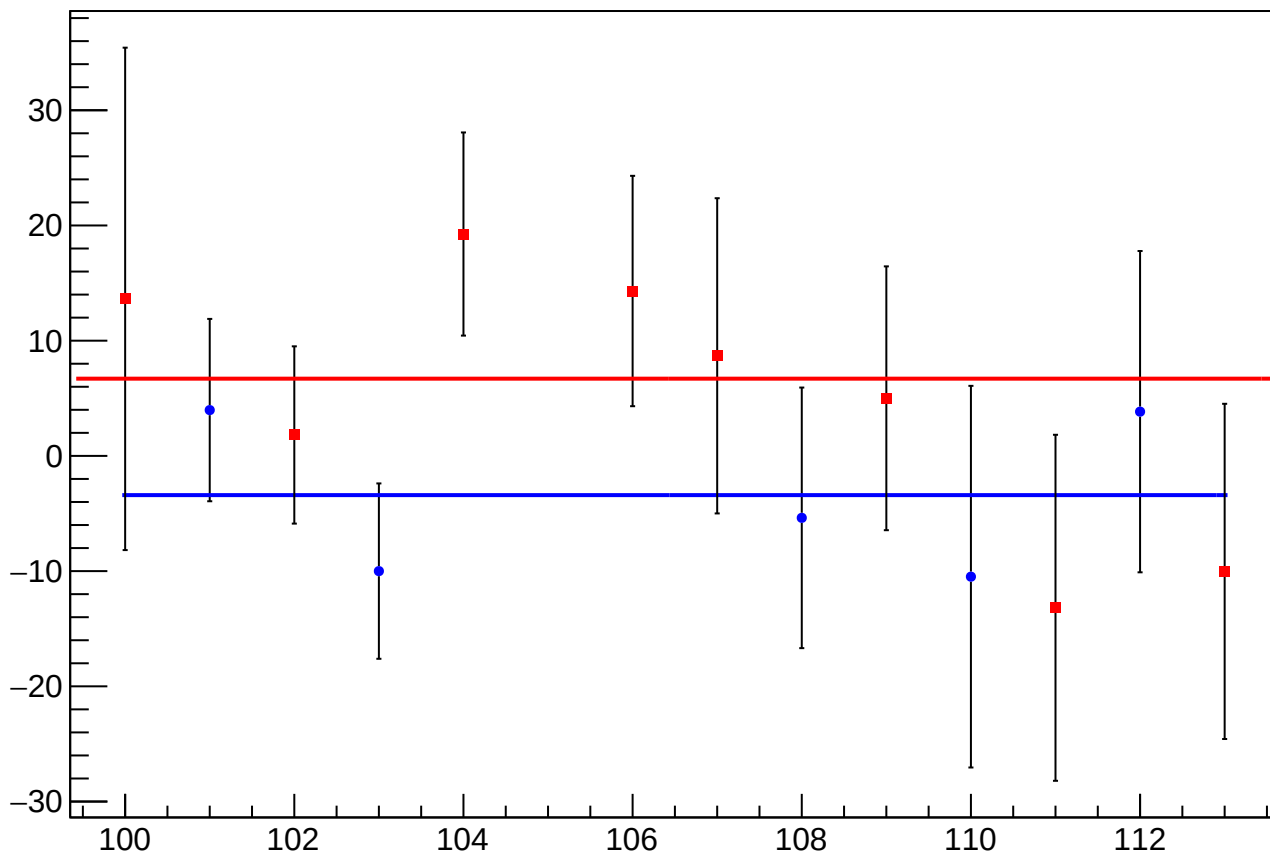
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1243.172 $\pm$ 0.367  $\chi^2$ /NDF: 64647.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4eY\_4ecY\_avg\_mean vs Slug



Right In: -3.404+/-4.479  $\chi^2/\text{NDF}$ : 2.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6.703+/-3.953  $\chi^2/\text{NDF}$ : 6.2/7

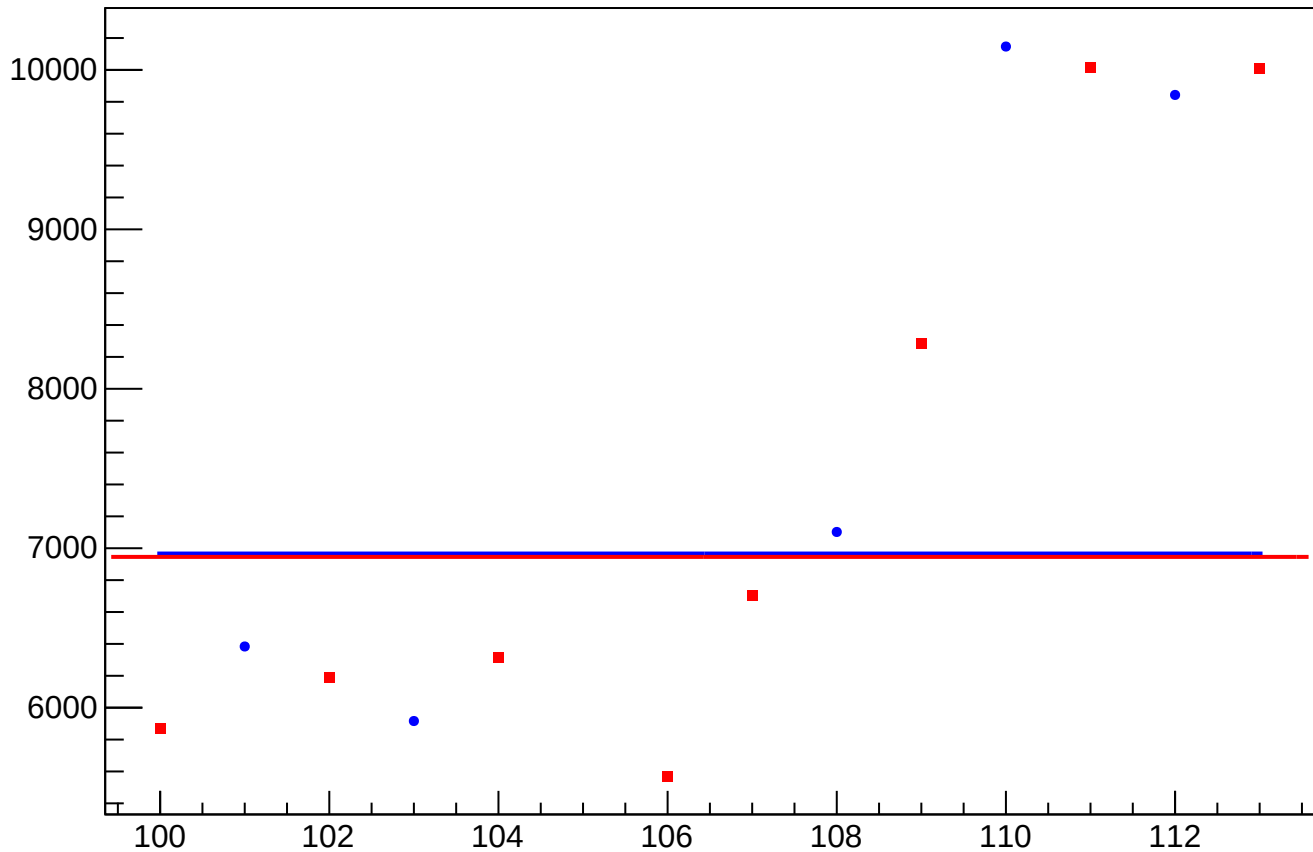
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.278+/-2.964  $\chi^2/\text{NDF}$ : 11.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4eY\_4ecY\_avg\_rms vs Slug



Right In: 6966.744+/-3.167  $\chi^2/\text{NDF}$ : 208072.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6945.699+/-2.795  $\chi^2/\text{NDF}$ : 273134.1/7

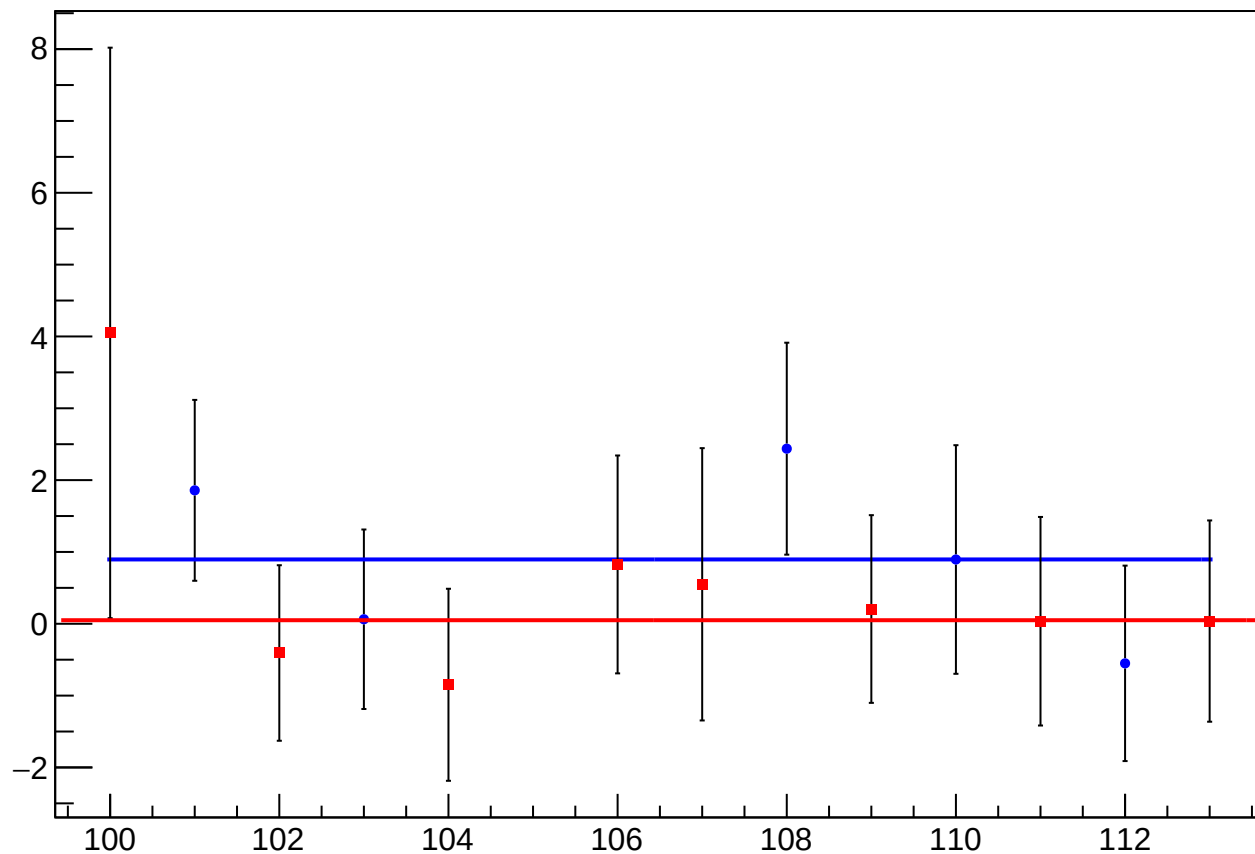
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6954.912+/-2.096  $\chi^2/\text{NDF}$ : 481231.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4eY\_4ecY\_dd\_mean vs Slug



Right In: 0.896+/-0.612  $\chi^2/\text{NDF}$ : 3.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.050+/-0.529  $\chi^2/\text{NDF}$ : 2.0/7

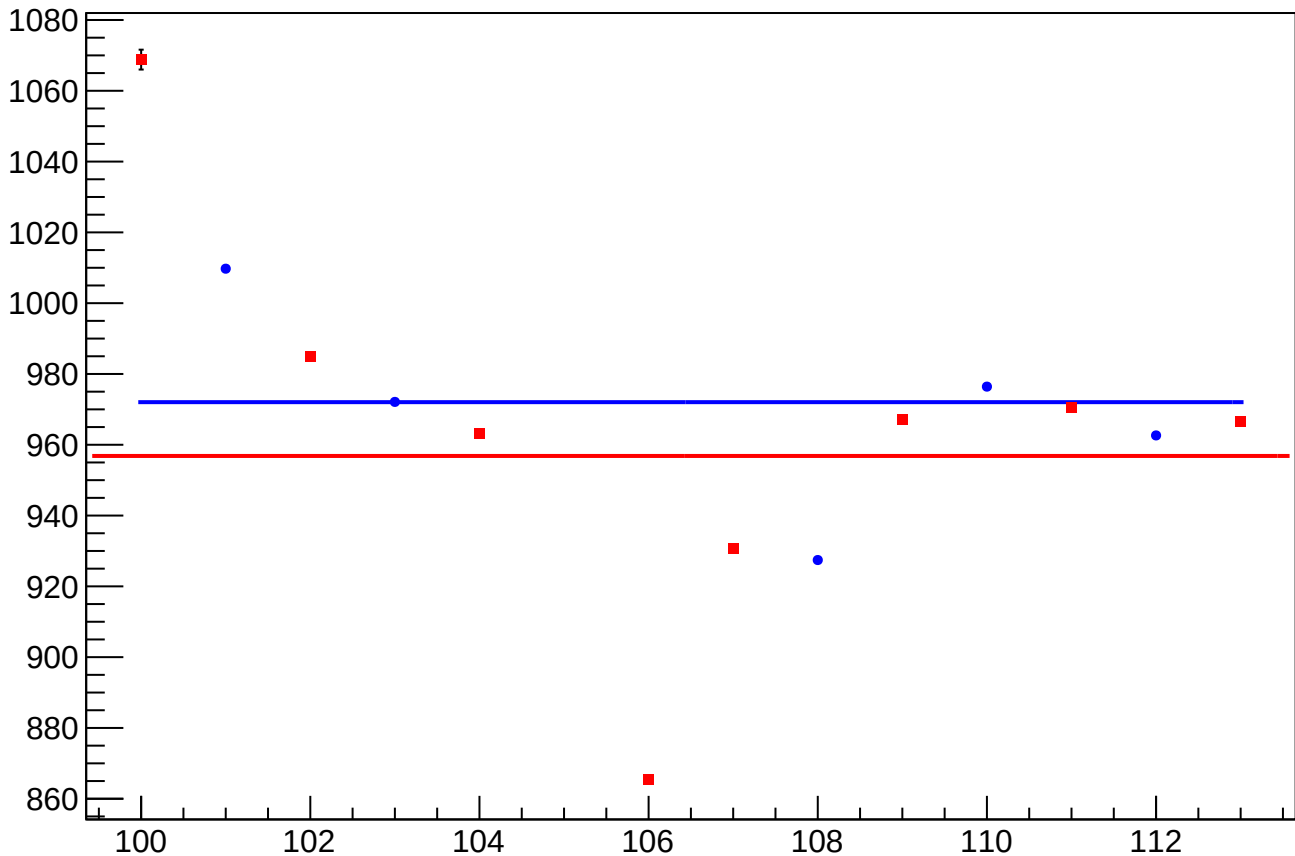
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.411+/-0.400  $\chi^2/\text{NDF}$ : 6.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4eY\_4ecY\_dd\_rms vs Slug



Right In: 972.037 $\pm$ 0.433  $\chi^2$ /NDF: 3732.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 956.840 $\pm$ 0.374  $\chi^2$ /NDF: 10717.0/7

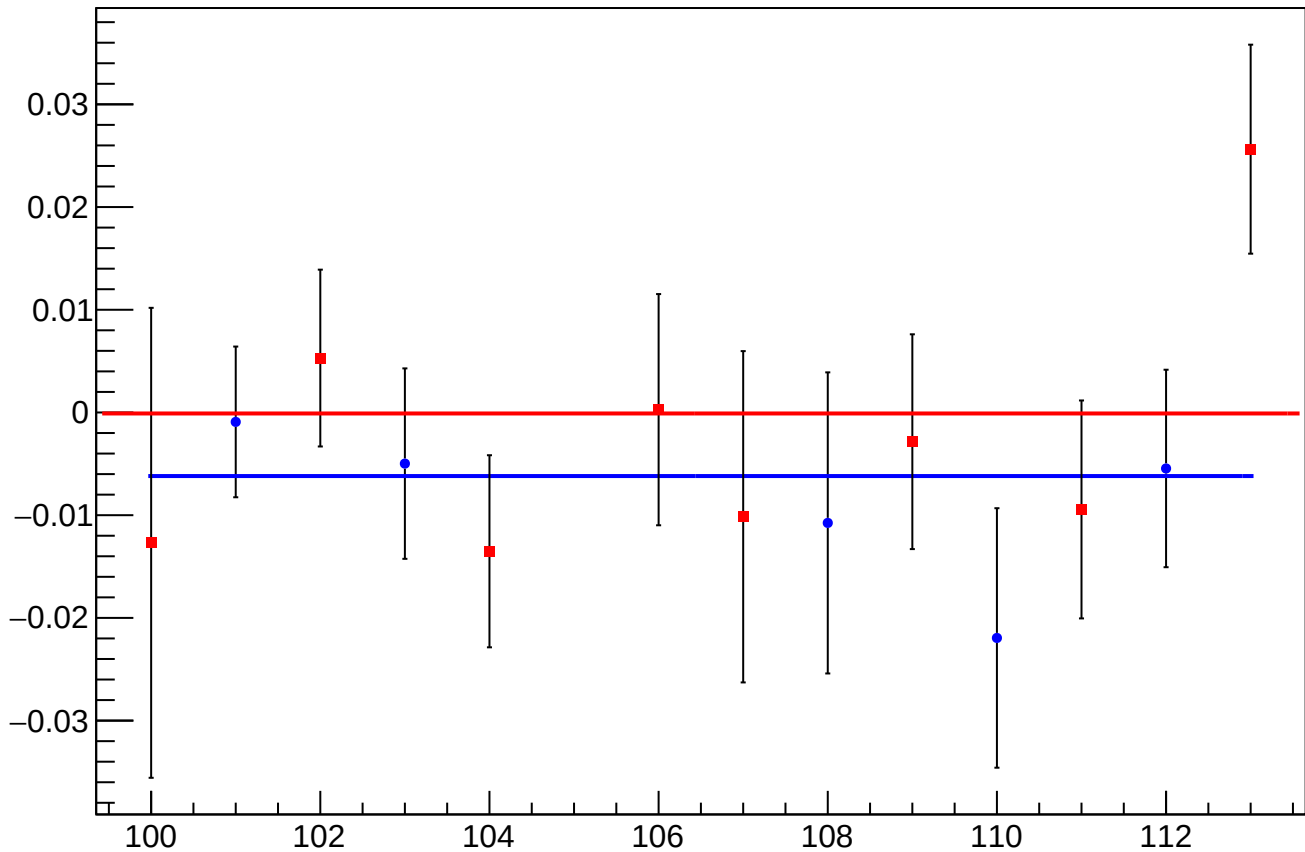
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 963.331 $\pm$ 0.283  $\chi^2$ /NDF: 15154.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_dispE\_bpm12X\_mean vs Slug



Right In: -0.006 $\pm$ 0.004  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.004  $\chi^2$ /NDF: 10.4/7

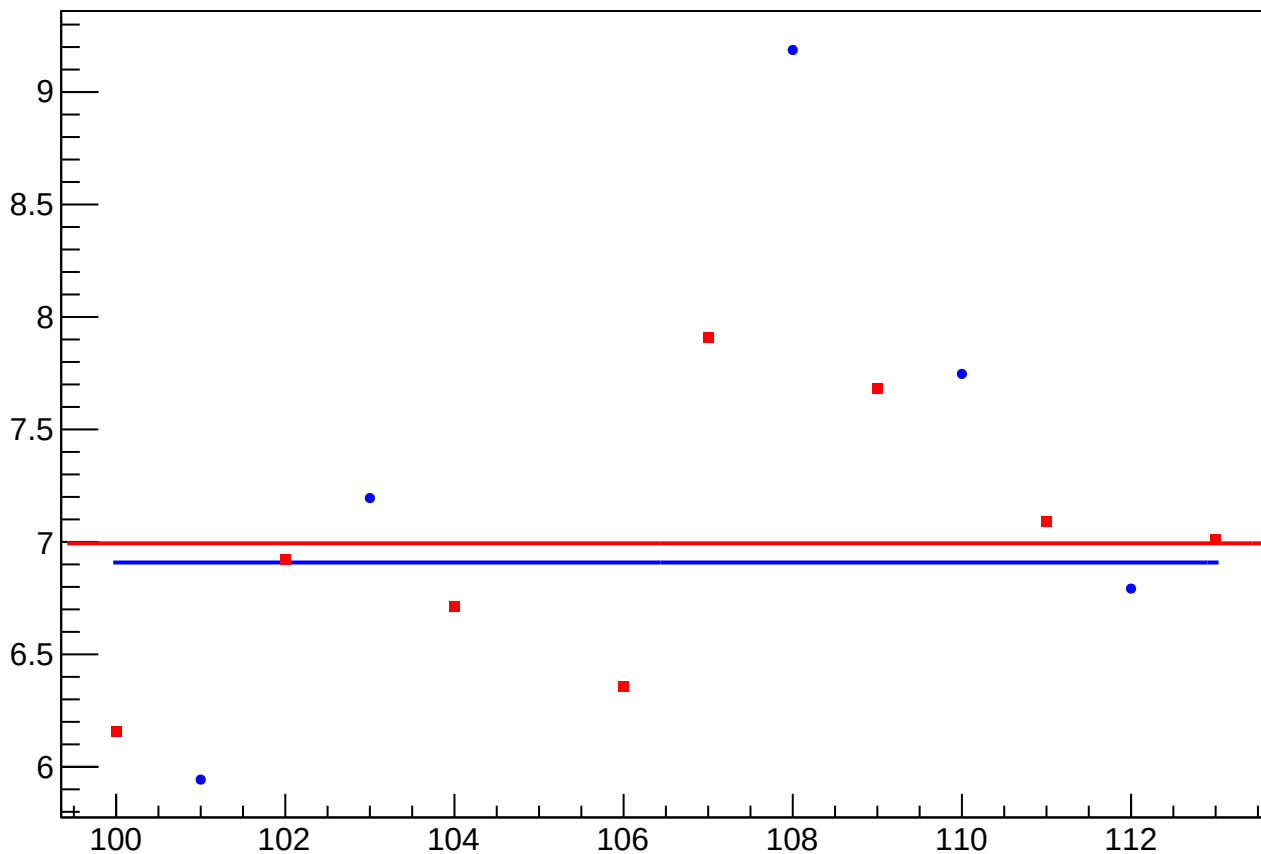
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.003  $\chi^2$ /NDF: 13.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_dispE\_bpm12X\_rms vs Slug



Right In: 6.908 $\pm$ 0.003  $\chi^2$ /NDF: 93966.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6.994 $\pm$ 0.003  $\chi^2$ /NDF: 26301.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

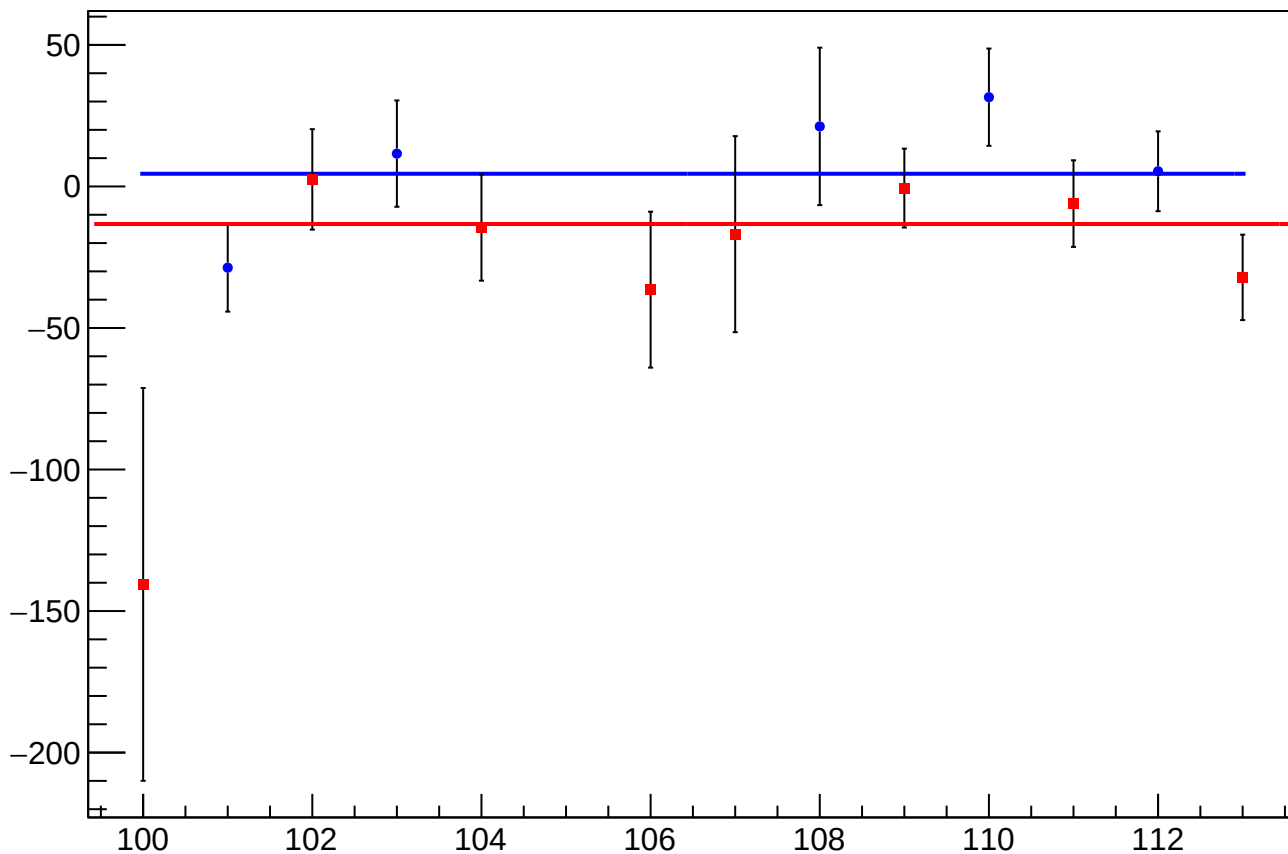
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.956 $\pm$ 0.002  $\chi^2$ /NDF: 120691.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_targ\_positionX\_mean vs Slug



Right In:  $4.487 \pm 7.740$   $\chi^2/\text{NDF}$ : 7.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-13.269 \pm 6.714$   $\chi^2/\text{NDF}$ : 7.5/7

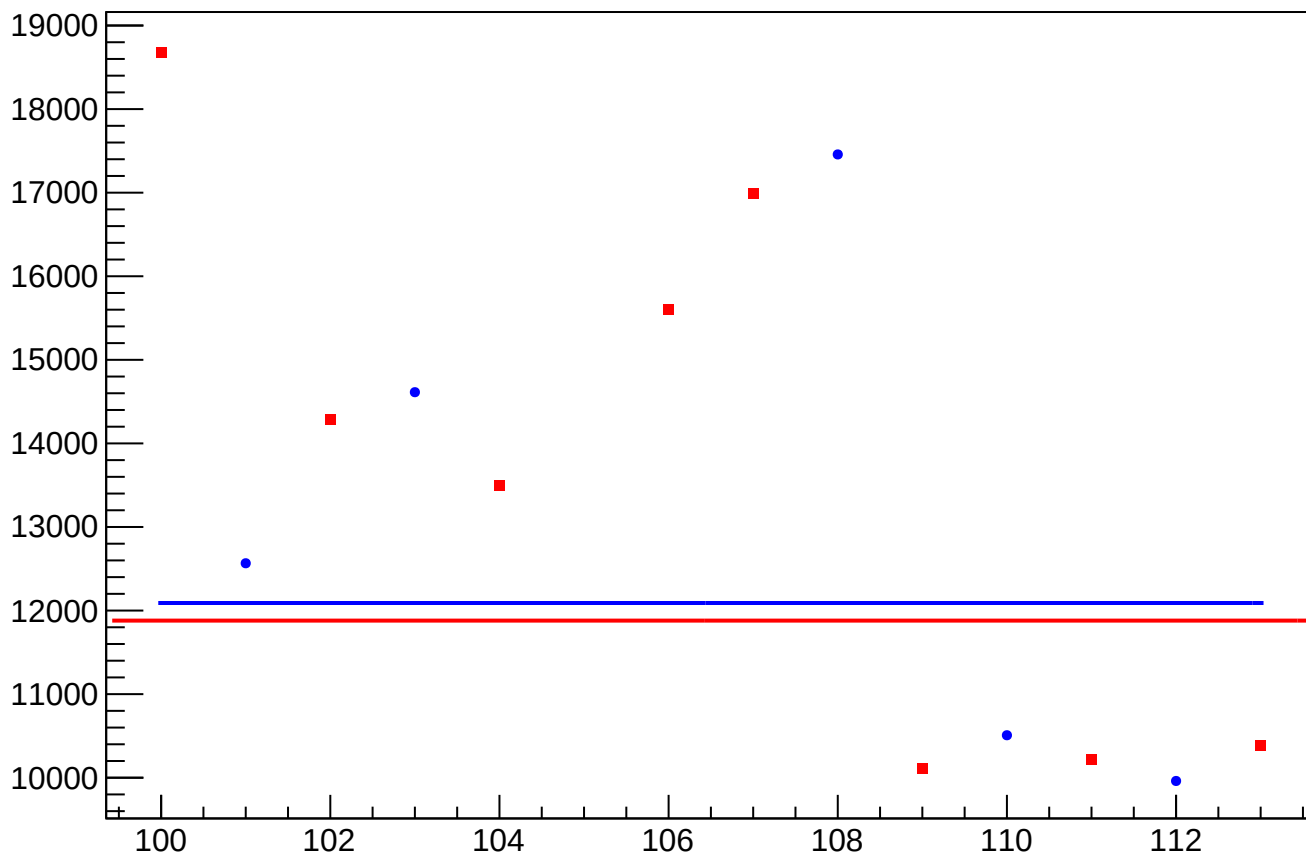
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.644 \pm 5.072$   $\chi^2/\text{NDF}$ : 18.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_positionX\_rms vs Slug



Right In: 12090.523+/-5.473  $\chi^2/\text{NDF}$ : 174955.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

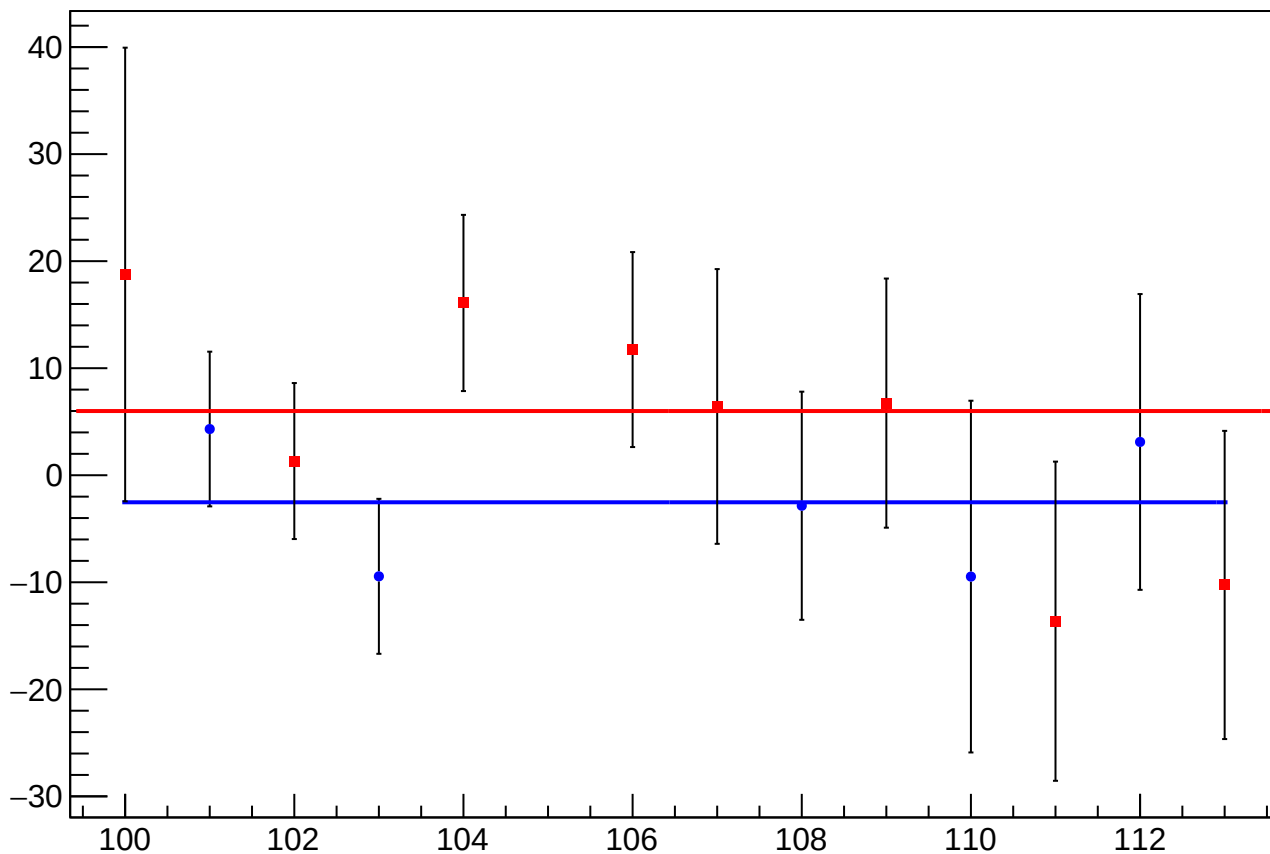
Right Out: 11879.841+/-4.748  $\chi^2/\text{NDF}$ : 226417.0/7

All: 11970.310+/-3.586  $\chi^2/\text{NDF}$ : 402217.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_positionY\_mean vs Slug



Right In:  $-2.527 \pm 4.227$   $\chi^2/\text{NDF}$ : 2.2/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $5.997 \pm 3.762$   $\chi^2/\text{NDF}$ : 5.7/7

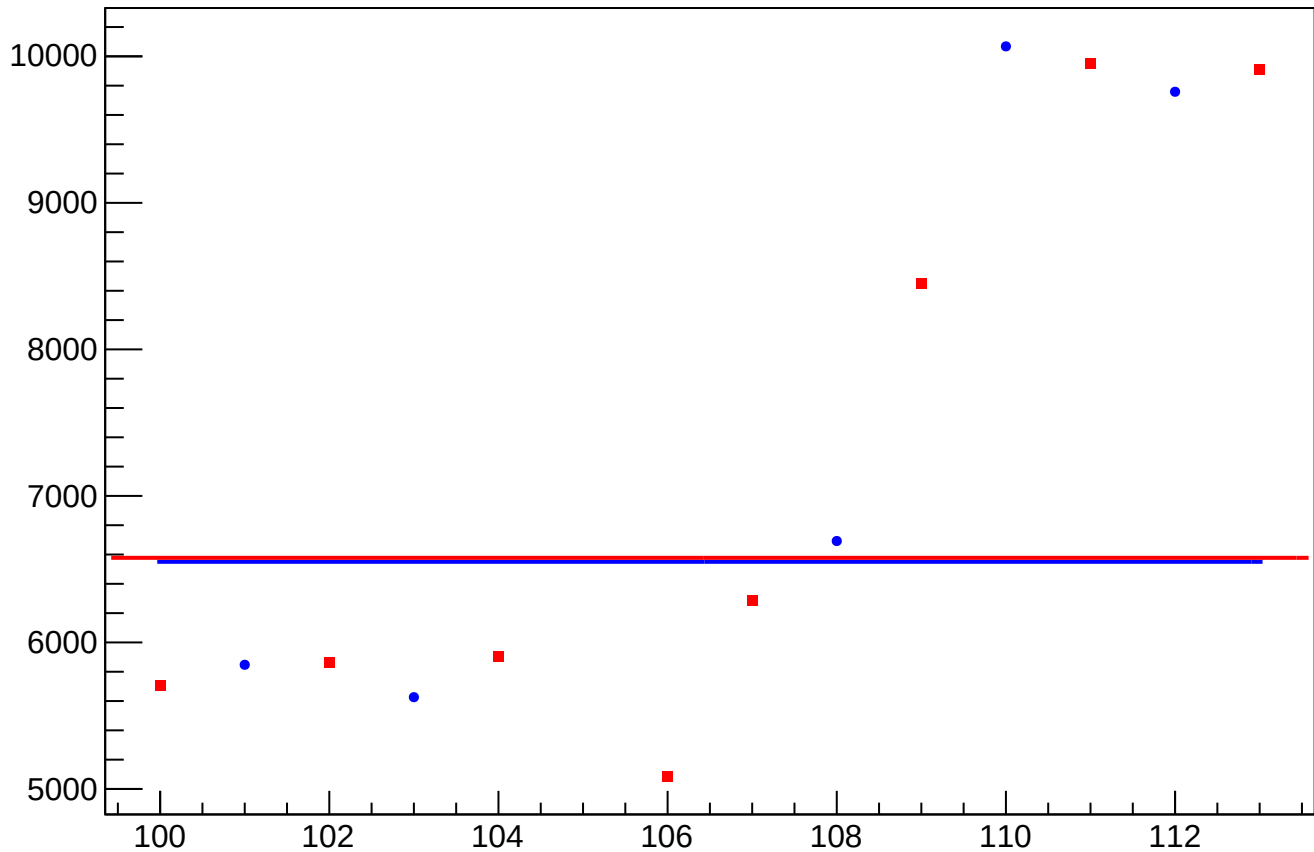
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $2.229 \pm 2.810$   $\chi^2/\text{NDF}$ : 10.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_positionY\_rms vs Slug



Right In: 6550.262+/-2.989  $\chi^2/\text{NDF}$ : 251335.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6577.440+/-2.660  $\chi^2/\text{NDF}$ : 351899.7/7

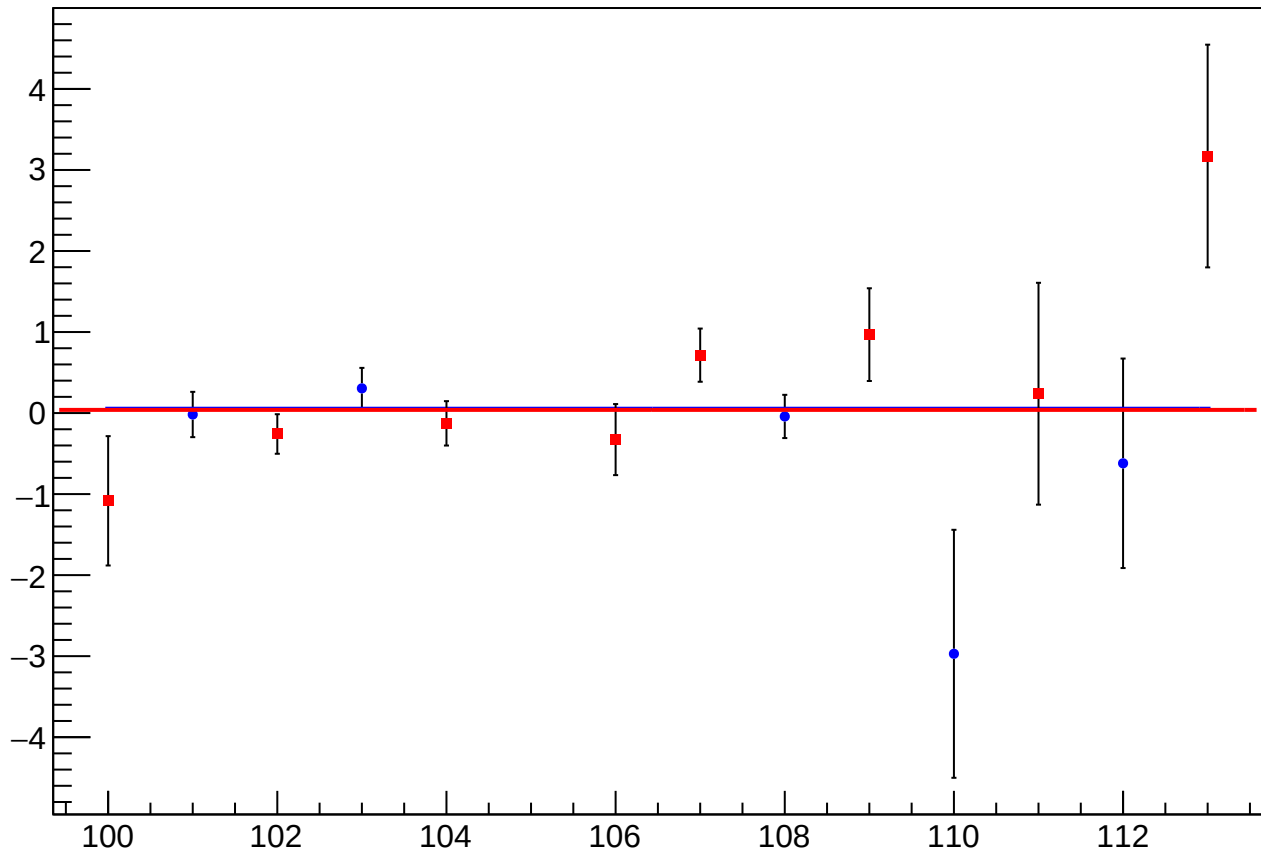
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6565.426+/-1.987  $\chi^2/\text{NDF}$ : 603281.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_thetaX\_mean vs Slug



Right In: 0.054 $\pm$ 0.152  $\chi^2$ /NDF: 5.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.039 $\pm$ 0.141  $\chi^2$ /NDF: 16.6/7

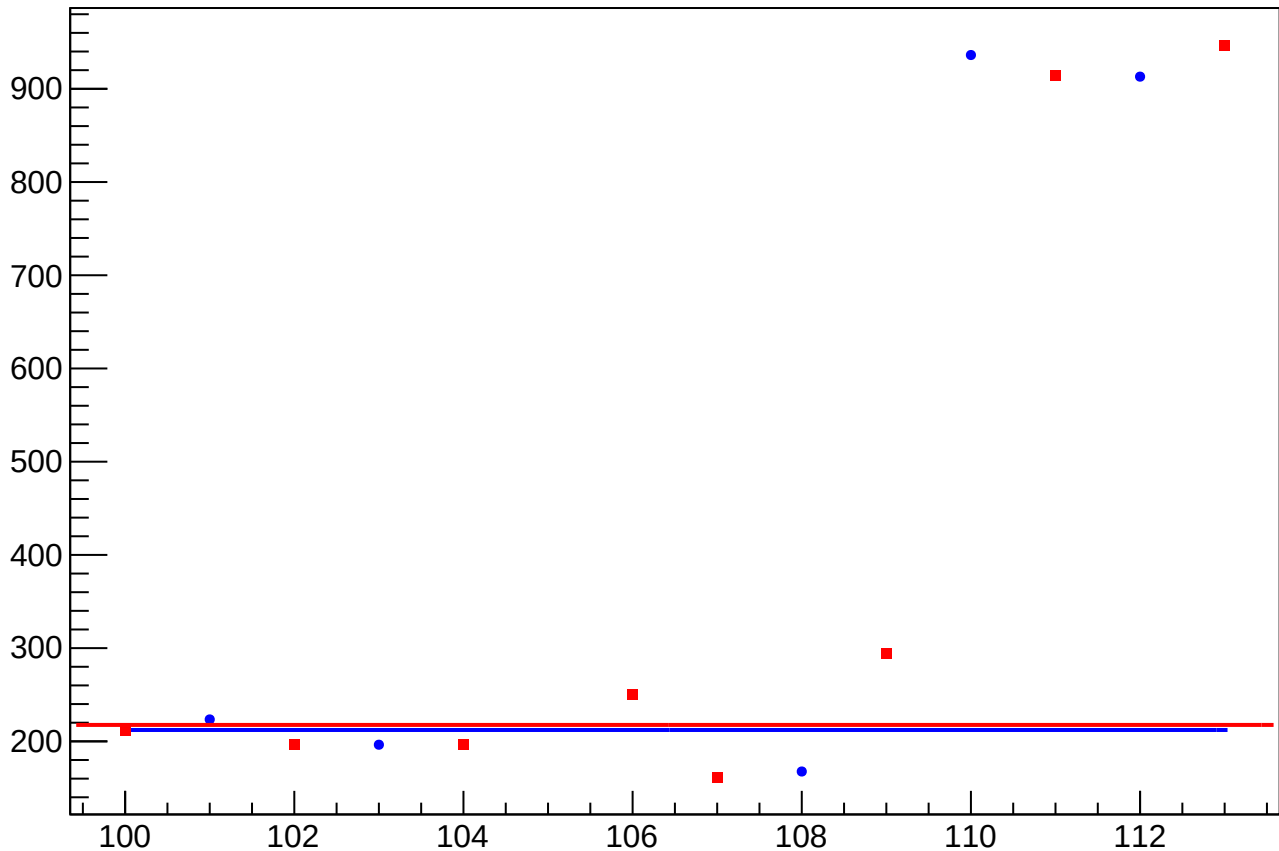
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.046 $\pm$ 0.103  $\chi^2$ /NDF: 22.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_targ\_thetaX\_rms vs Slug



Right In: 212.190 $\pm$ 0.107  $\chi^2$ /NDF: 1102483.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 217.623 $\pm$ 0.100  $\chi^2$ /NDF: 1213054.8/7

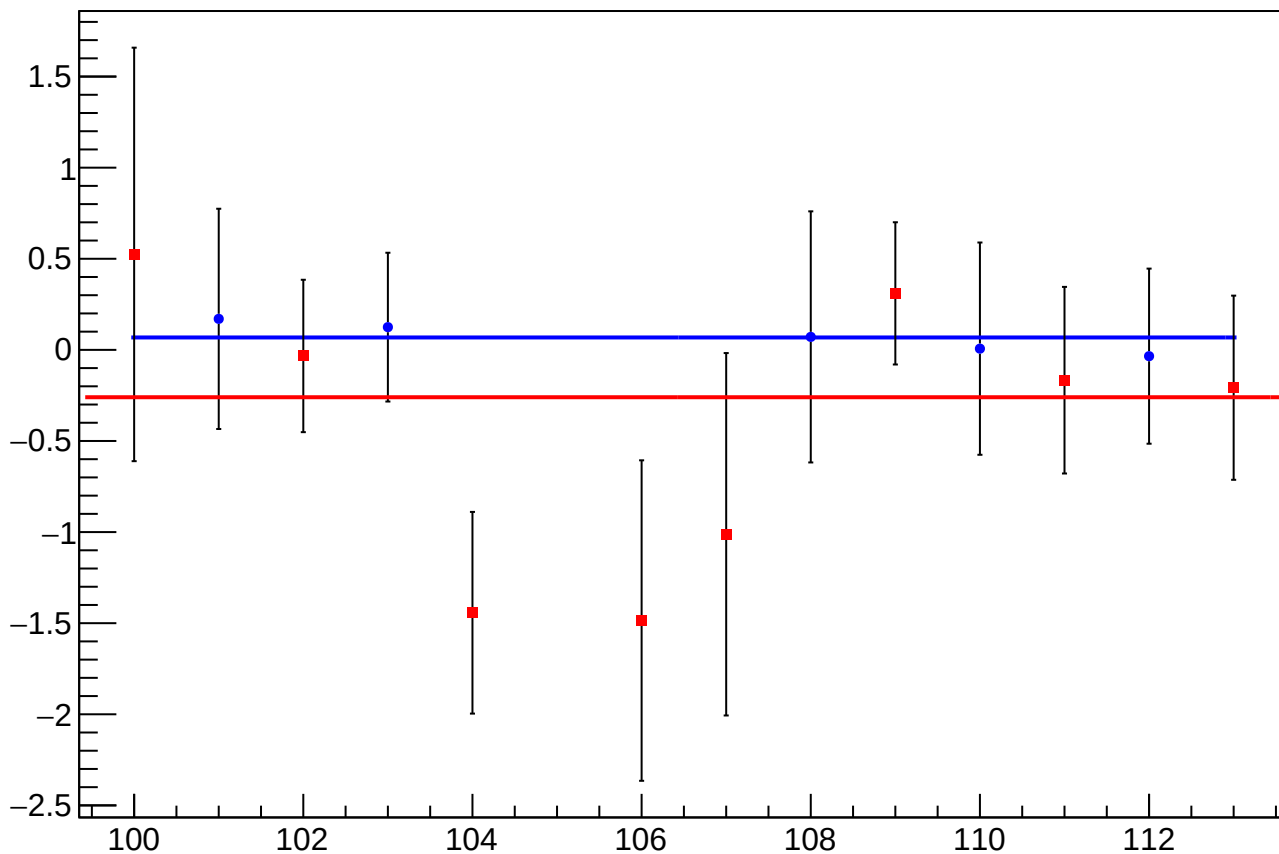
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 215.102 $\pm$ 0.073  $\chi^2$ /NDF: 2316916.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_targ\_thetaY\_mean vs Slug



Right In: 0.068 $\pm$ 0.235  $\chi^2$ /NDF: 0.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.260 $\pm$ 0.195  $\chi^2$ /NDF: 10.0/7

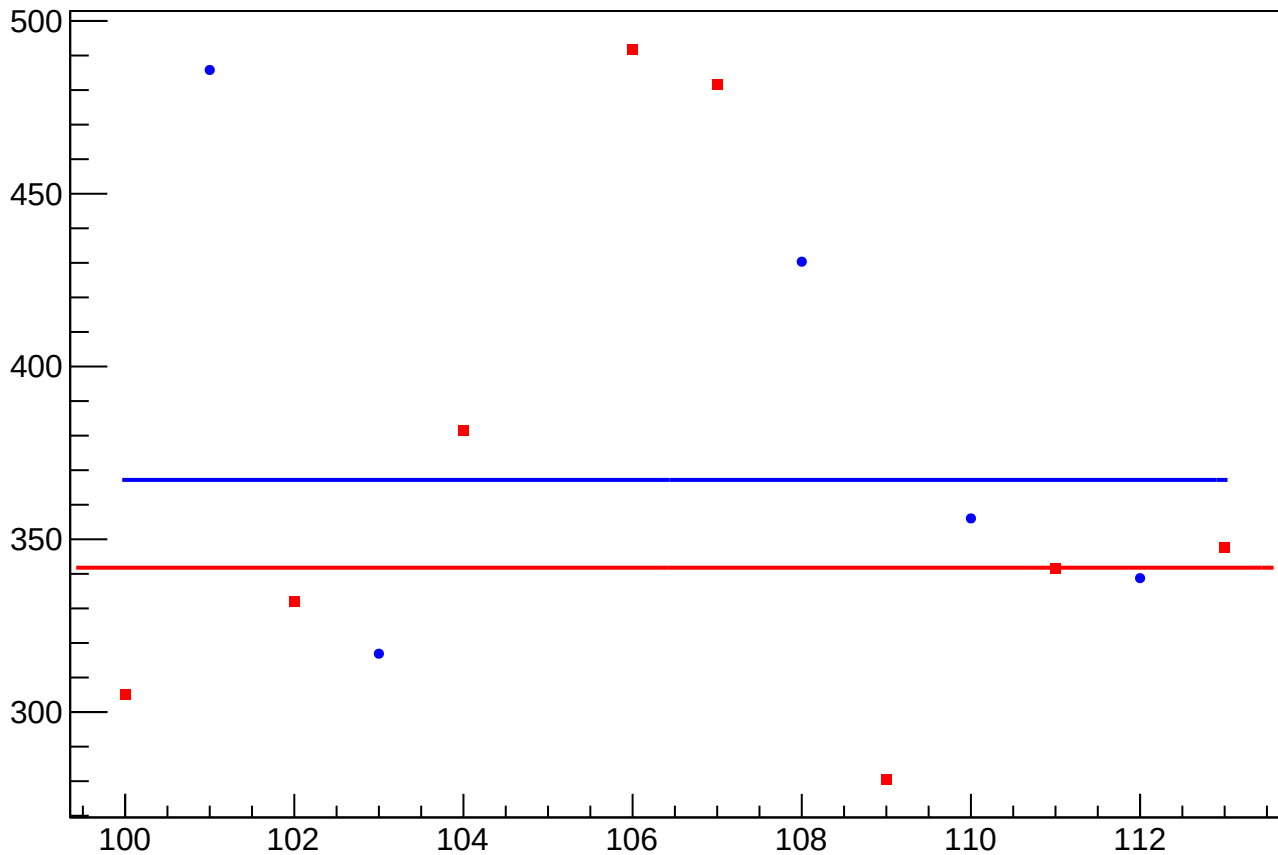
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.126 $\pm$ 0.150  $\chi^2$ /NDF: 11.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_targ\_thetaY\_rms vs Slug



Right In: 367.190 $\pm$ 0.166  $\chi^2$ /NDF: 131930.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 341.786 $\pm$ 0.138  $\chi^2$ /NDF: 160940.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

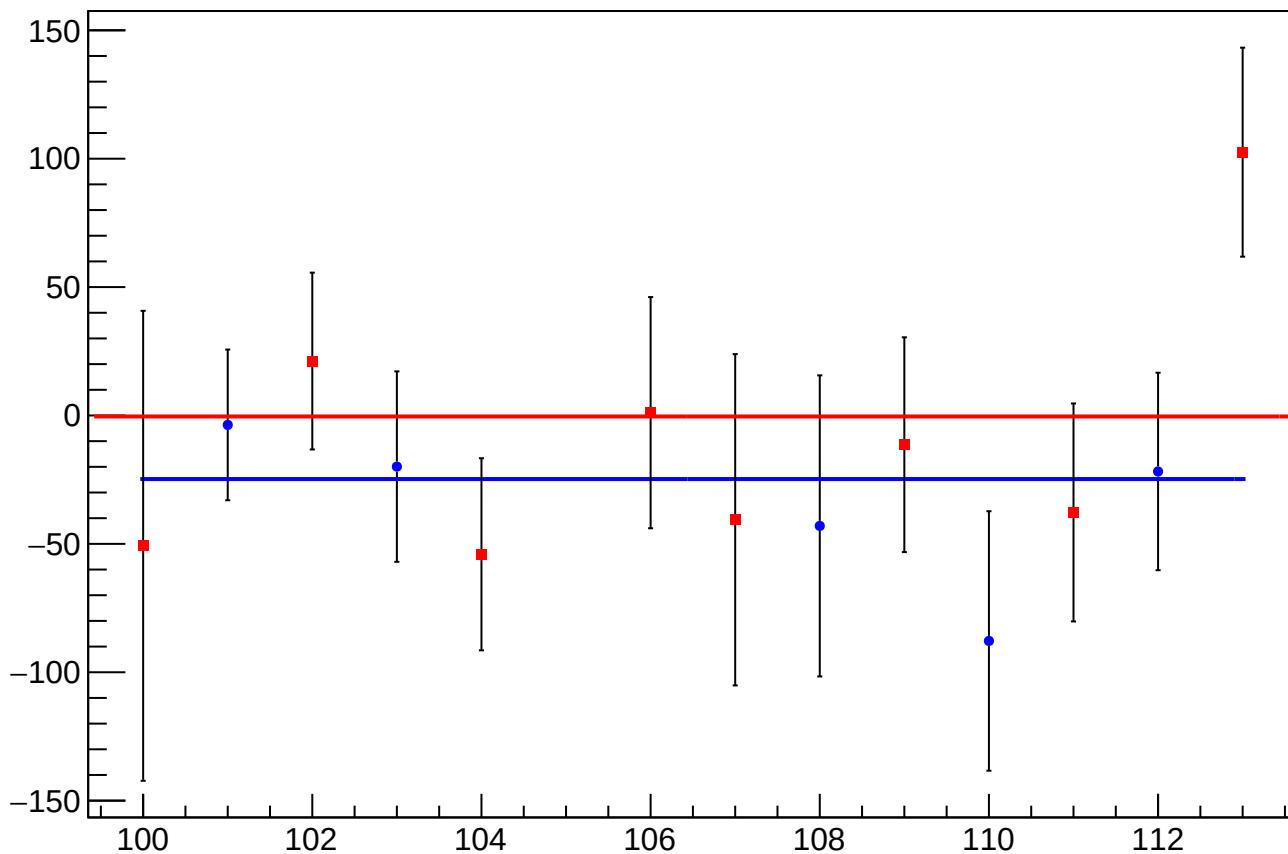
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 352.136 $\pm$ 0.106  $\chi^2$ /NDF: 306730.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpmE\_mean vs Slug



Right In:  $-24.759 \pm 17.548$   $\chi^2/\text{NDF}$ : 2.2/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.387 \pm 15.538$   $\chi^2/\text{NDF}$ : 10.4/7

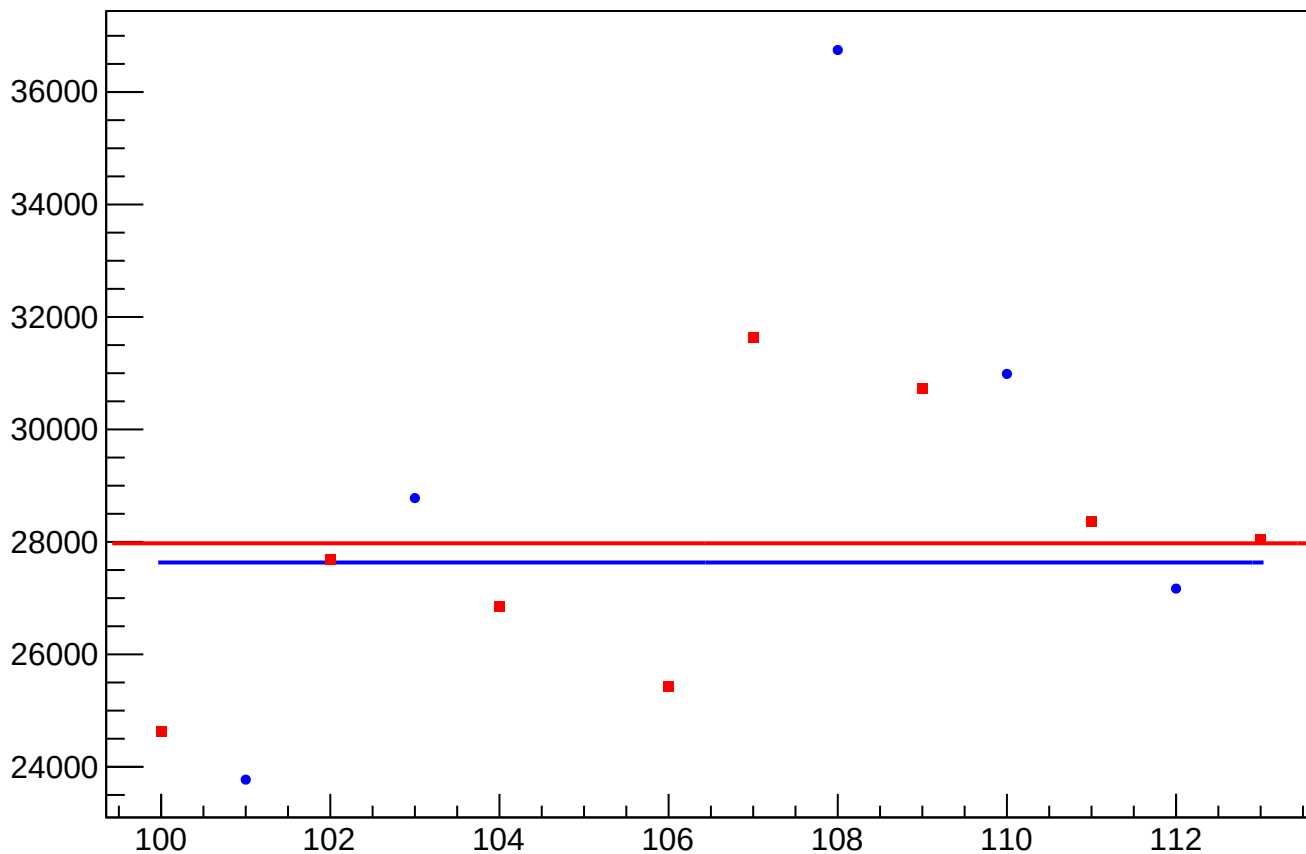
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-11.097 \pm 11.633$   $\chi^2/\text{NDF}$ : 13.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmE\_rms vs Slug



Right In: 27633.906+/-12.409  $\chi^2/\text{NDF}$ : 93966.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27975.041+/-10.987  $\chi^2/\text{NDF}$ : 26301.7/7

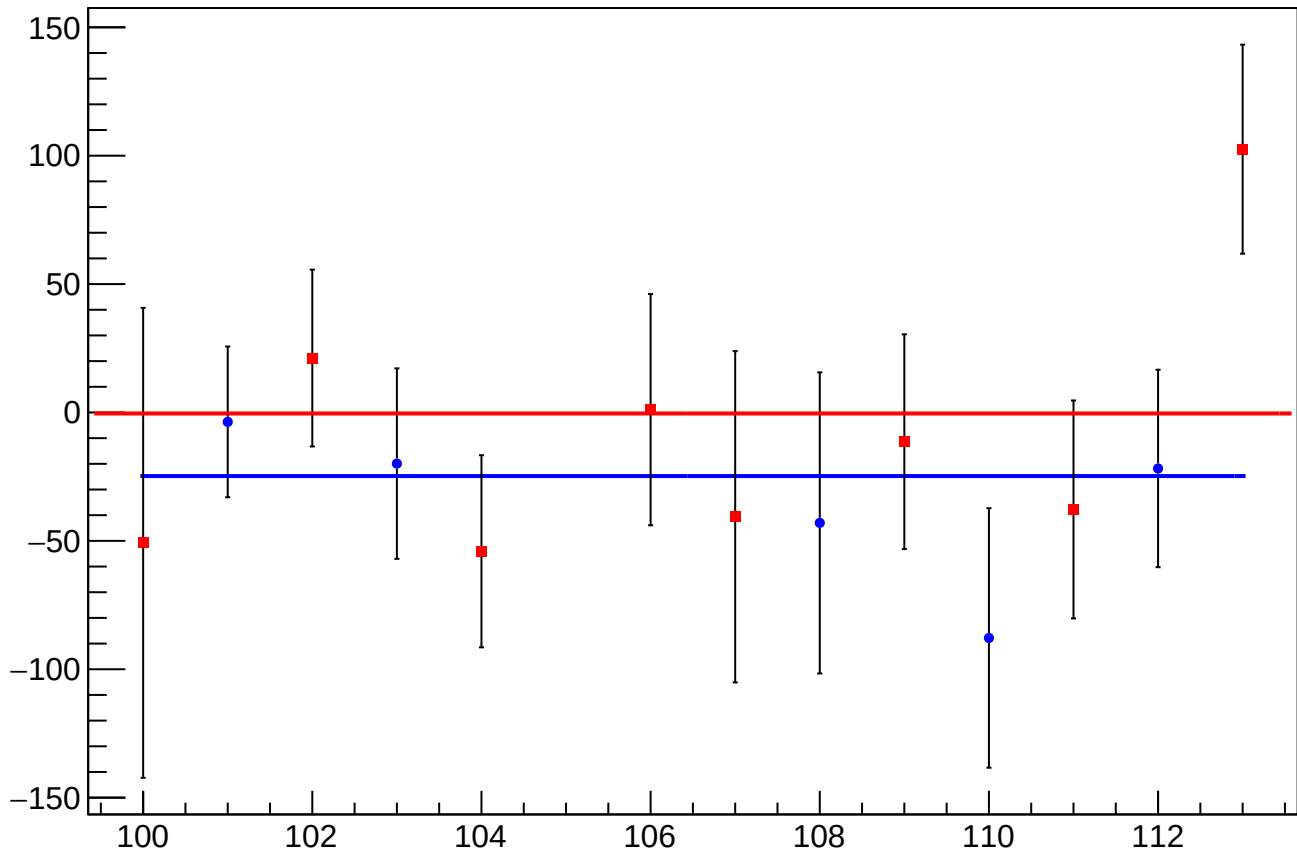
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27825.129+/-8.226  $\chi^2/\text{NDF}$ : 120691.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmEX\_mean vs Slug



Right In: -24.759+/-17.548  $\chi^2/\text{NDF}$ : 2.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.387+/-15.538  $\chi^2/\text{NDF}$ : 10.4/7

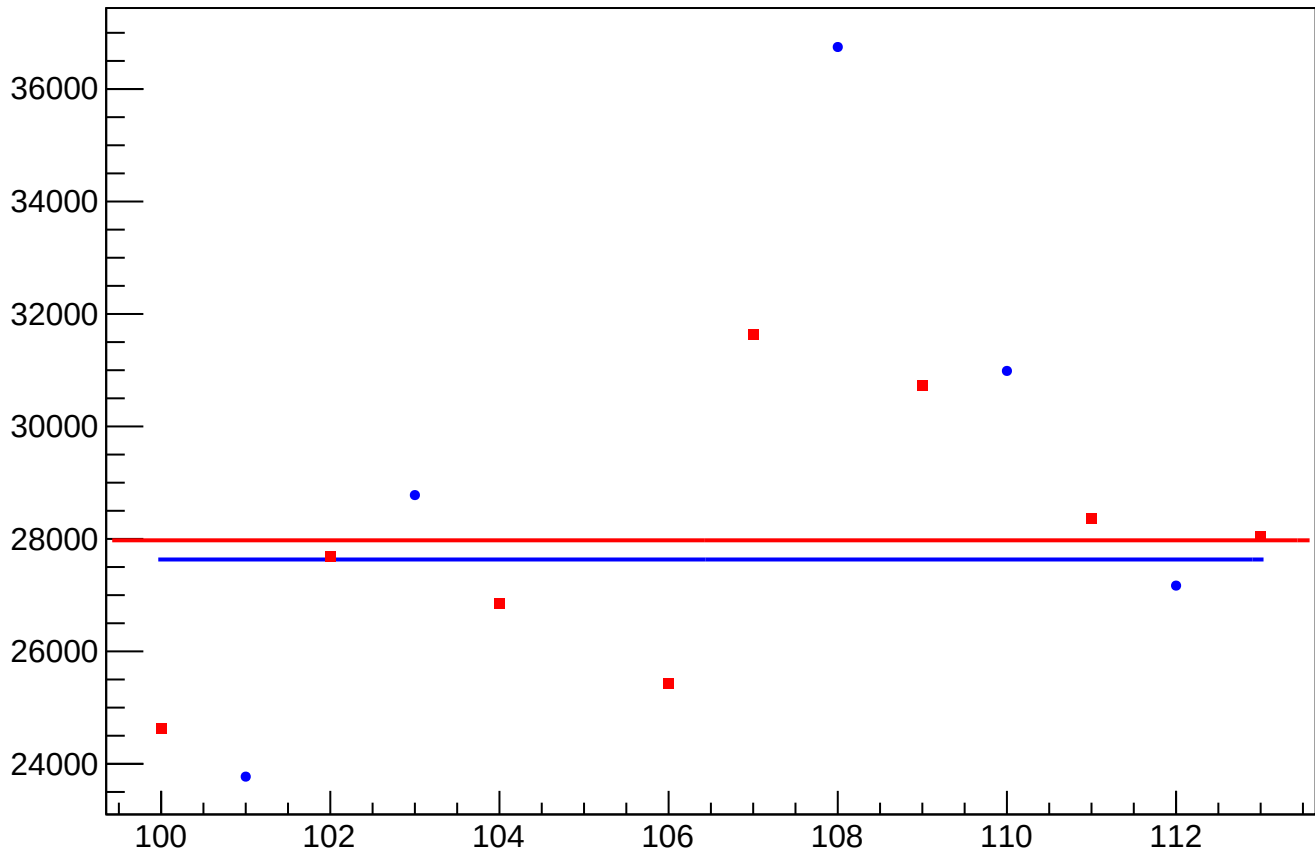
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -11.097+/-11.633  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmEX\_rms vs Slug



Right In: 27633.906 $\pm$ 12.409  $\chi^2$ /NDF: 93966.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27975.041 $\pm$ 10.987  $\chi^2$ /NDF: 26301.7/7

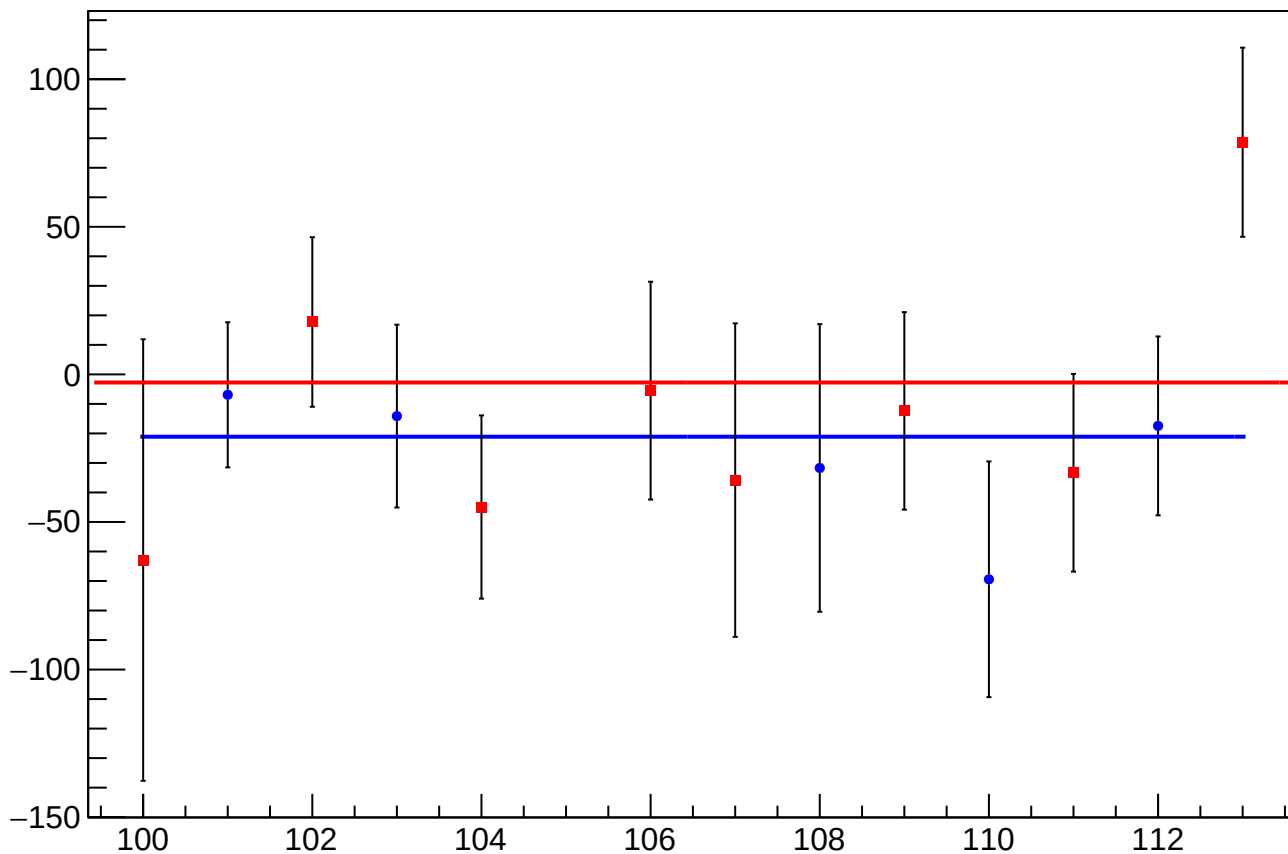
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27825.129 $\pm$ 8.226  $\chi^2$ /NDF: 120691.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpmE\_11X12X\_mean vs Slug



Right In: -21.116 $\pm$ 14.381  $\chi^2$ /NDF: 1.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.744 $\pm$ 12.620  $\chi^2$ /NDF: 10.8/7

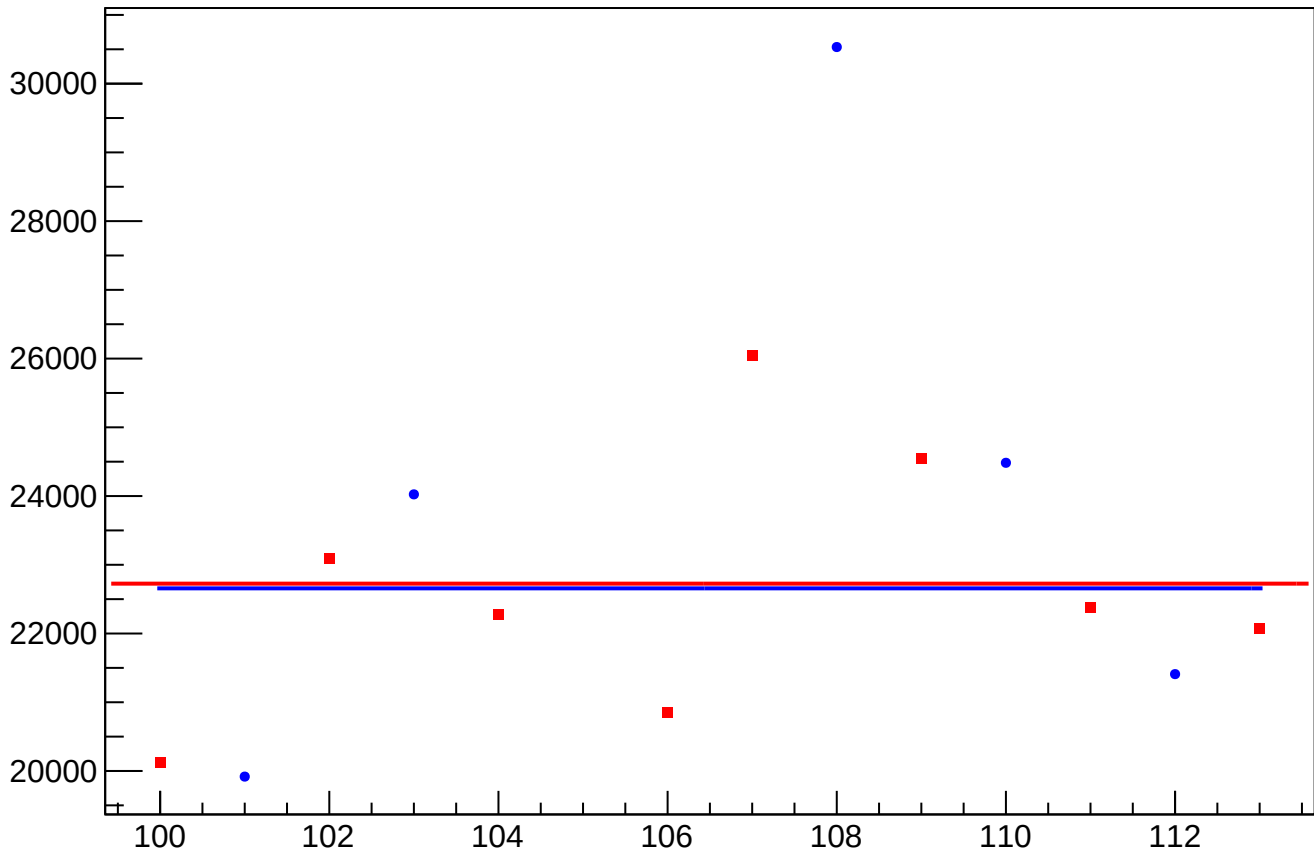
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -10.738 $\pm$ 9.486  $\chi^2$ /NDF: 13.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpmE\_11X12X\_rms vs Slug



Right In: 22657.088+/-10.169  $\chi^2/\text{NDF}$ : 88571.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22725.608+/-8.924  $\chi^2/\text{NDF}$ : 23111.0/7

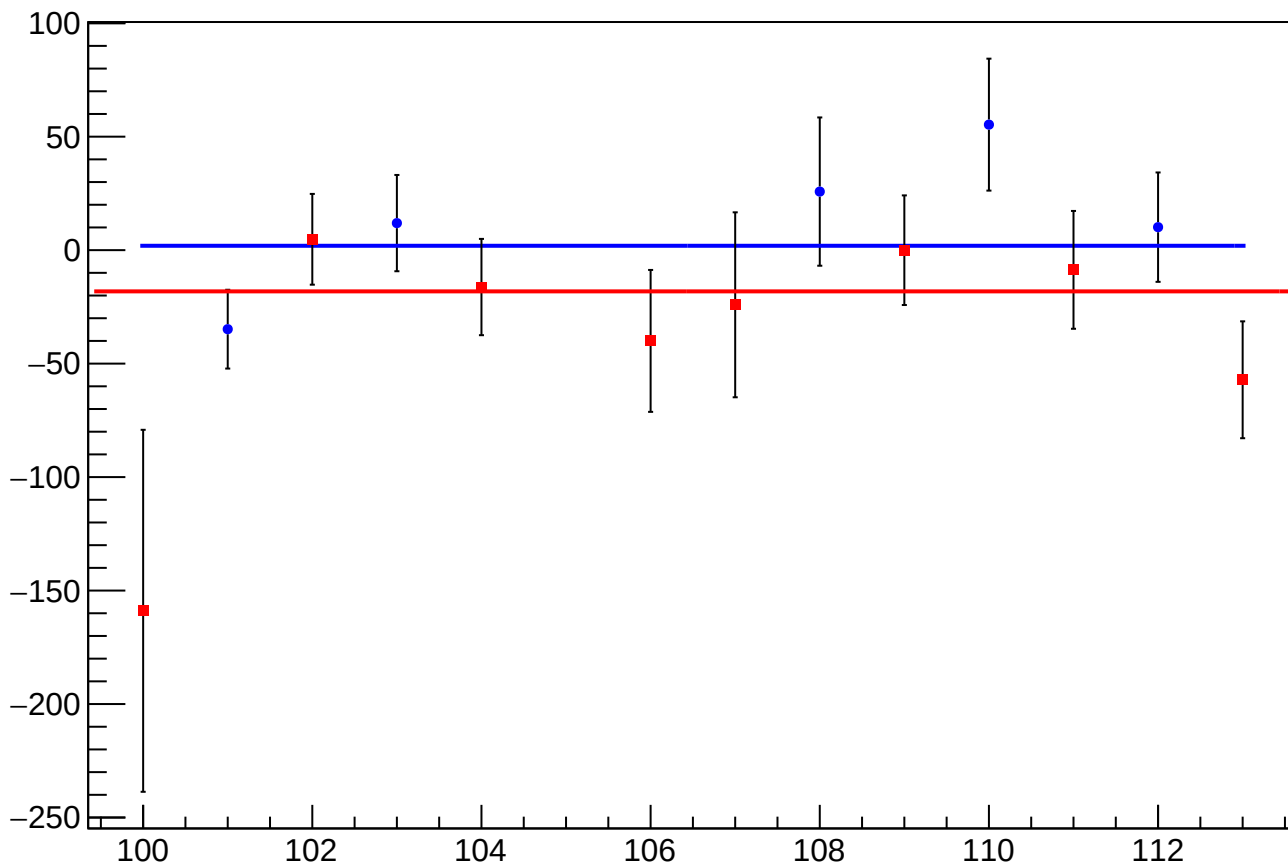
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22695.796+/-6.707  $\chi^2/\text{NDF}$ : 111707.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aesumX\_mean vs Slug



Right In:  $1.924 \pm 10.324$   $\chi^2/\text{NDF}$ : 8.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-18.167 \pm 9.444$   $\chi^2/\text{NDF}$ : 7.9/7

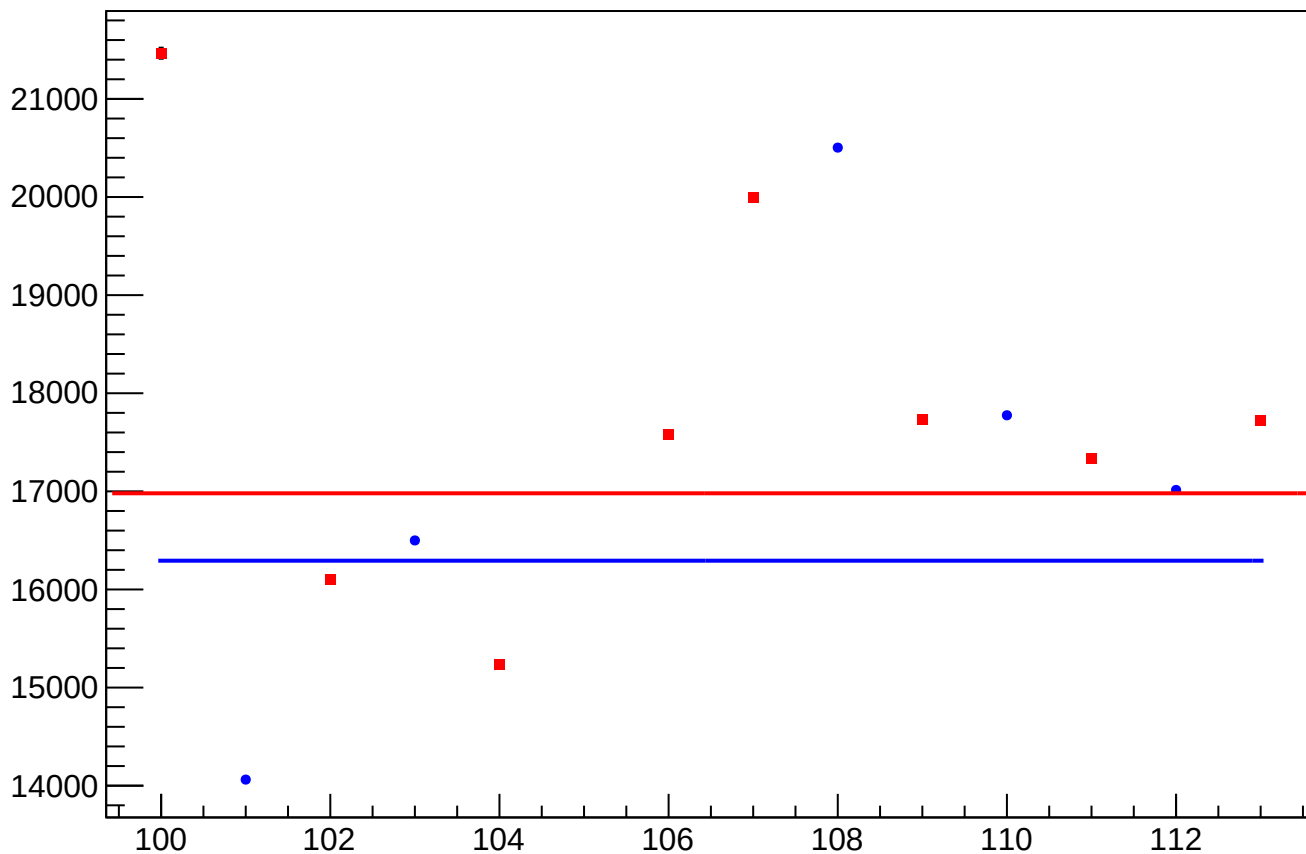
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-9.013 \pm 6.968$   $\chi^2/\text{NDF}$ : 18.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aesumX\_rms vs Slug



Right In: 16293.201+/-7.300  $\chi^2/\text{NDF}$ : 73432.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16980.191+/-6.678  $\chi^2/\text{NDF}$ : 39301.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

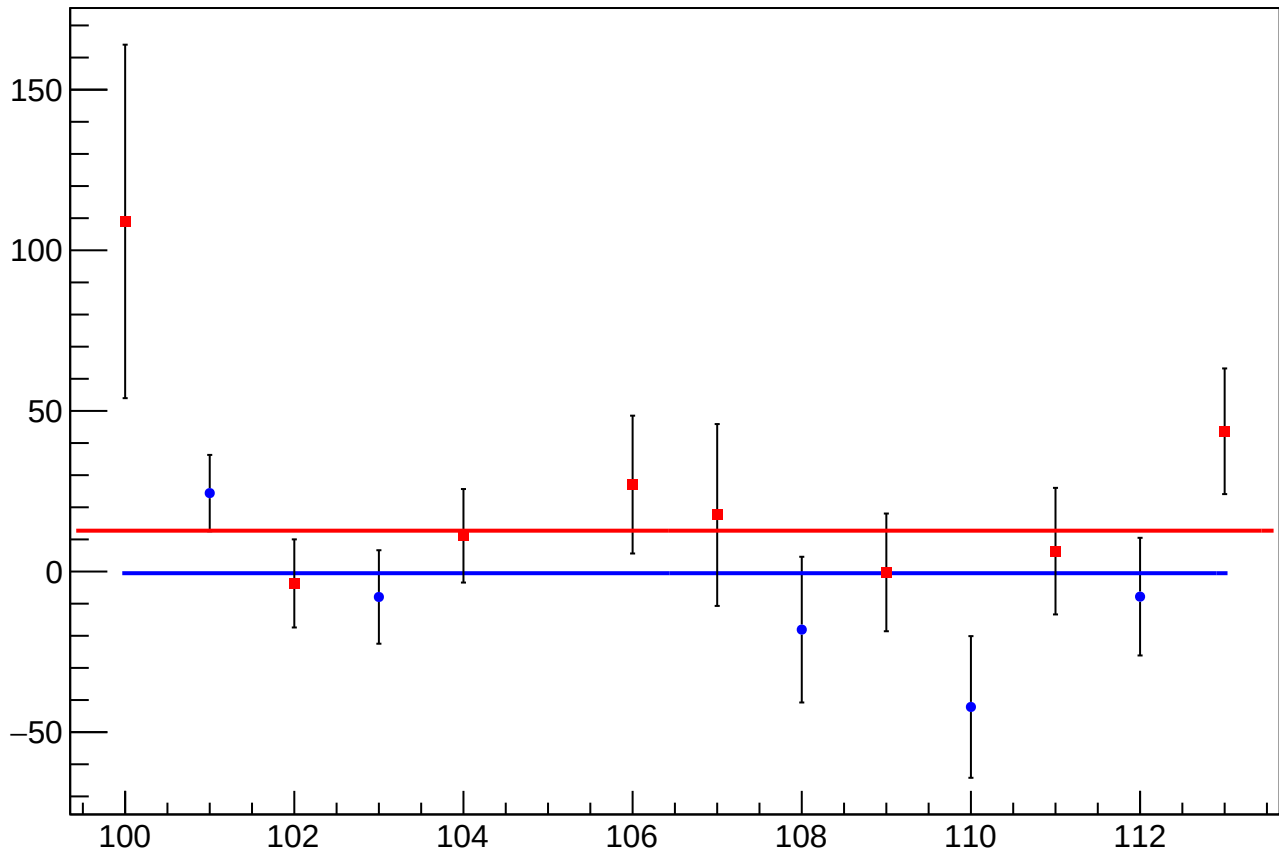
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16667.187+/-4.927  $\chi^2/\text{NDF}$ : 117555.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm4aediX\_mean vs Slug



Right In:  $-0.519 \pm 7.297$   $\chi^2/\text{NDF}$ : 9.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $12.721 \pm 6.749$   $\chi^2/\text{NDF}$ : 8.1/7

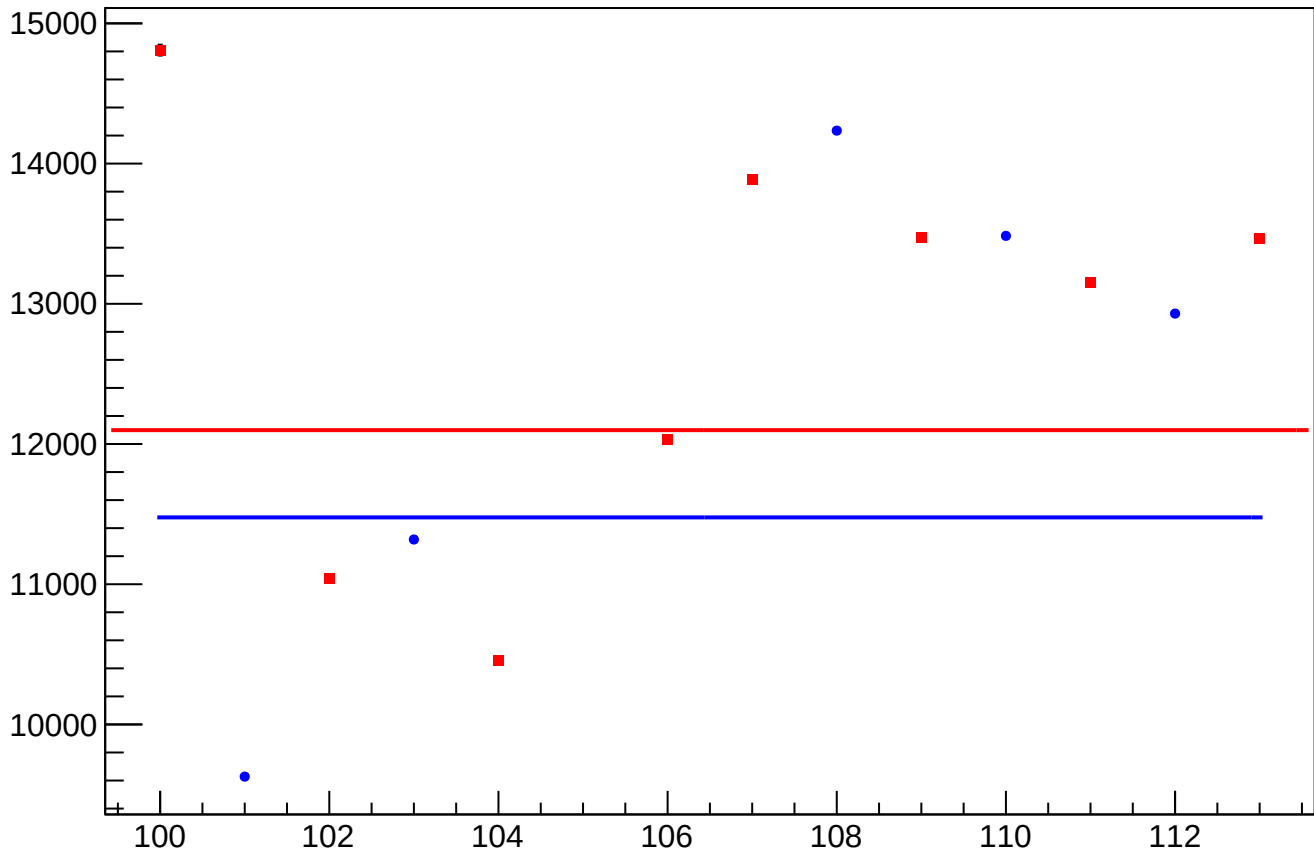
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $6.617 \pm 4.954$   $\chi^2/\text{NDF}$ : 18.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aediiffX\_rms vs Slug



Right In: 11476.644+/-5.159  $\chi^2/\text{NDF}$ : 107385.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12098.997+/-4.772  $\chi^2/\text{NDF}$ : 77024.3/7

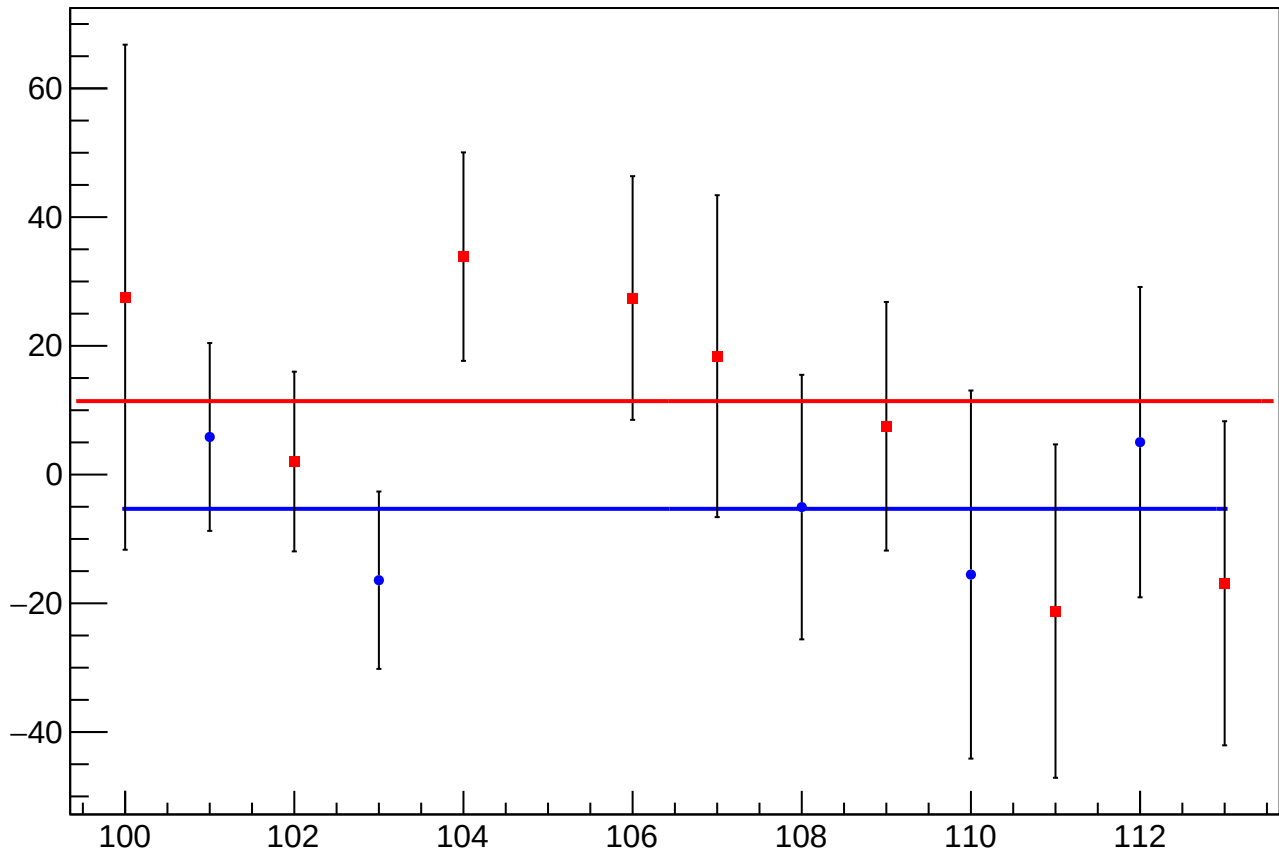
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11812.058+/-3.503  $\chi^2/\text{NDF}$ : 192251.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aesumY\_mean vs Slug



Right In: -5.320+/-8.090  $\chi^2$ /NDF: 1.5/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11.416+/-7.119  $\chi^2$ /NDF: 6.2/7

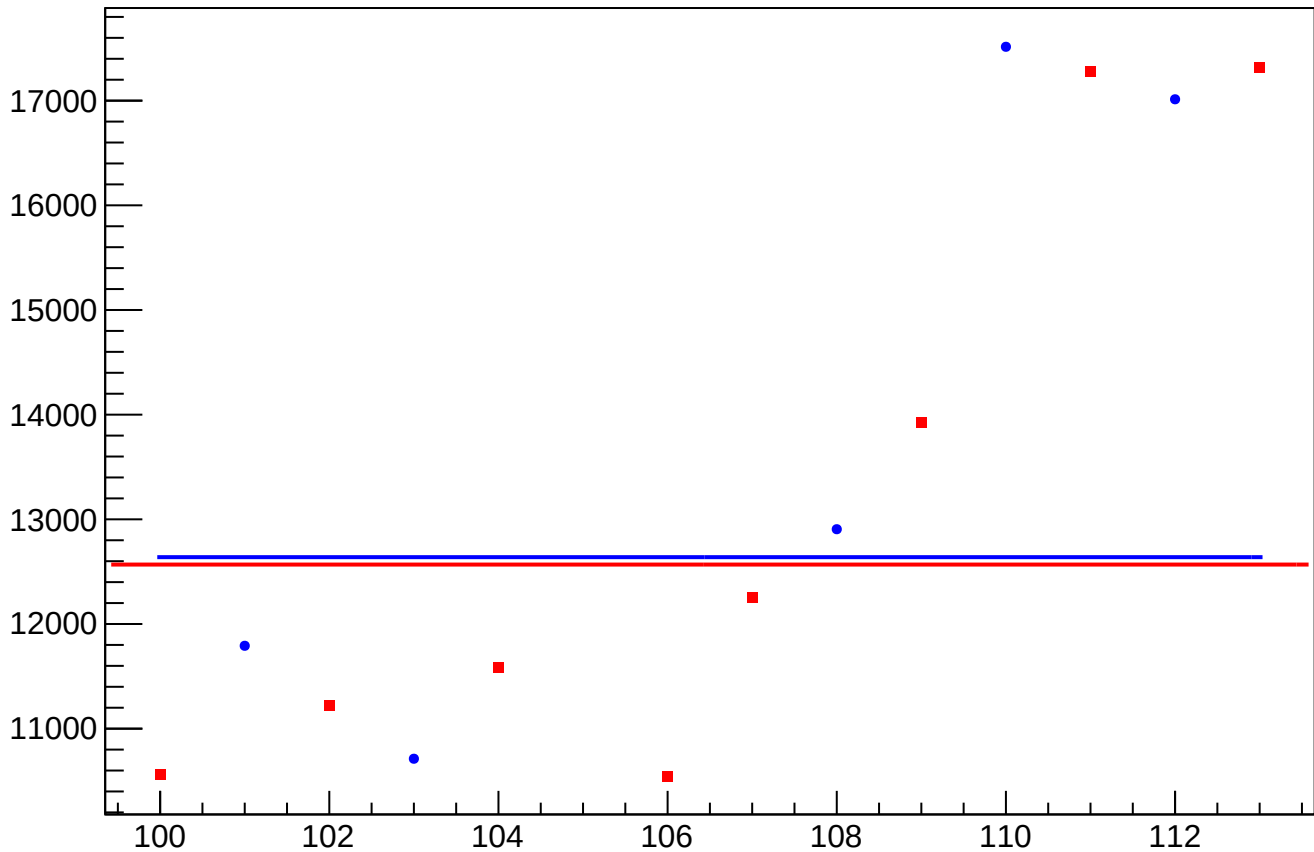
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 4.113+/-5.344  $\chi^2$ /NDF: 10.2/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm4aesumY\_rms vs Slug



Right In: 12638.538 $\pm$ 5.721  $\chi^2$ /NDF: 170169.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

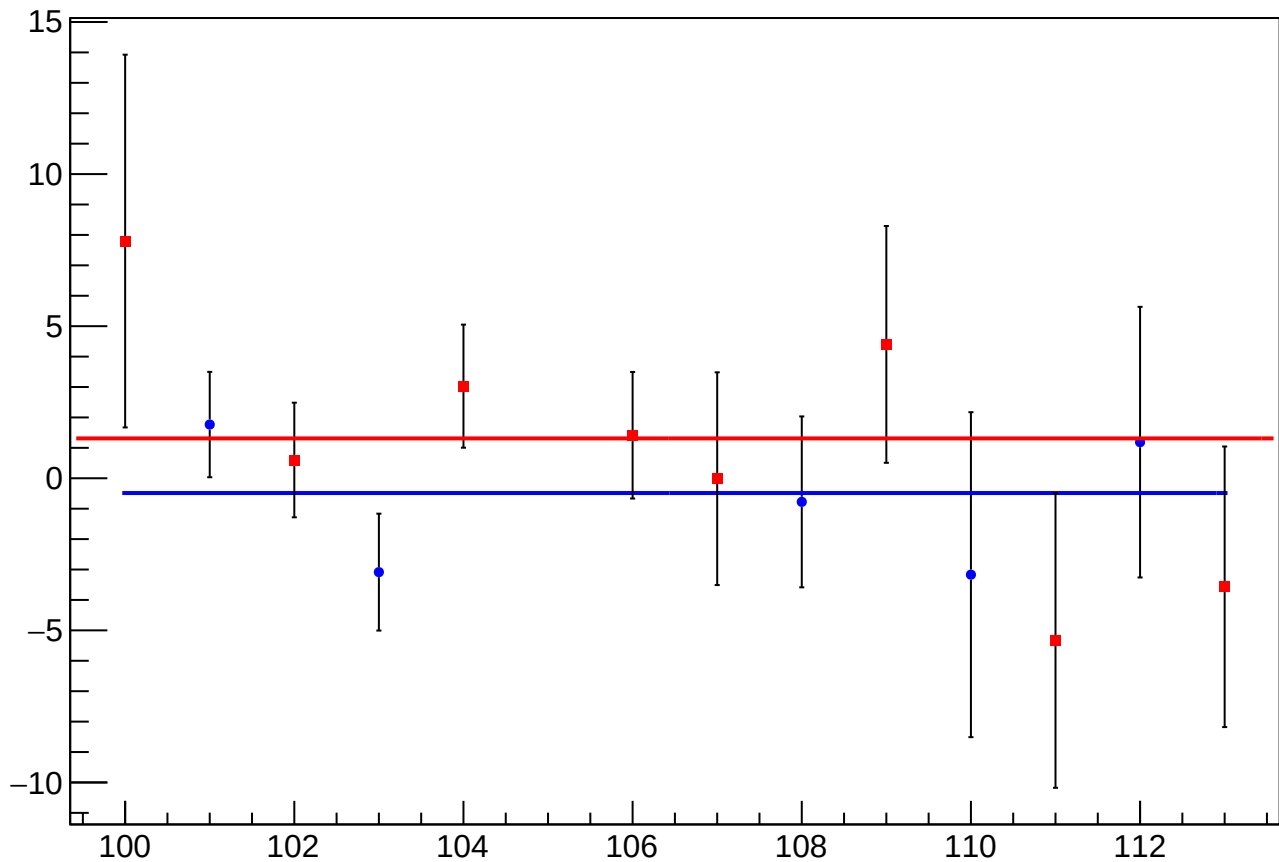
Right Out: 12567.806 $\pm$ 5.034  $\chi^2$ /NDF: 201742.7/7

All: 12598.673 $\pm$ 3.779  $\chi^2$ /NDF: 371998.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm4aediffY\_mean vs Slug



Right In:  $-0.485 \pm 1.107$   $\chi^2/\text{NDF}$ : 3.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1.311 \pm 0.990$   $\chi^2/\text{NDF}$ : 5.8/7

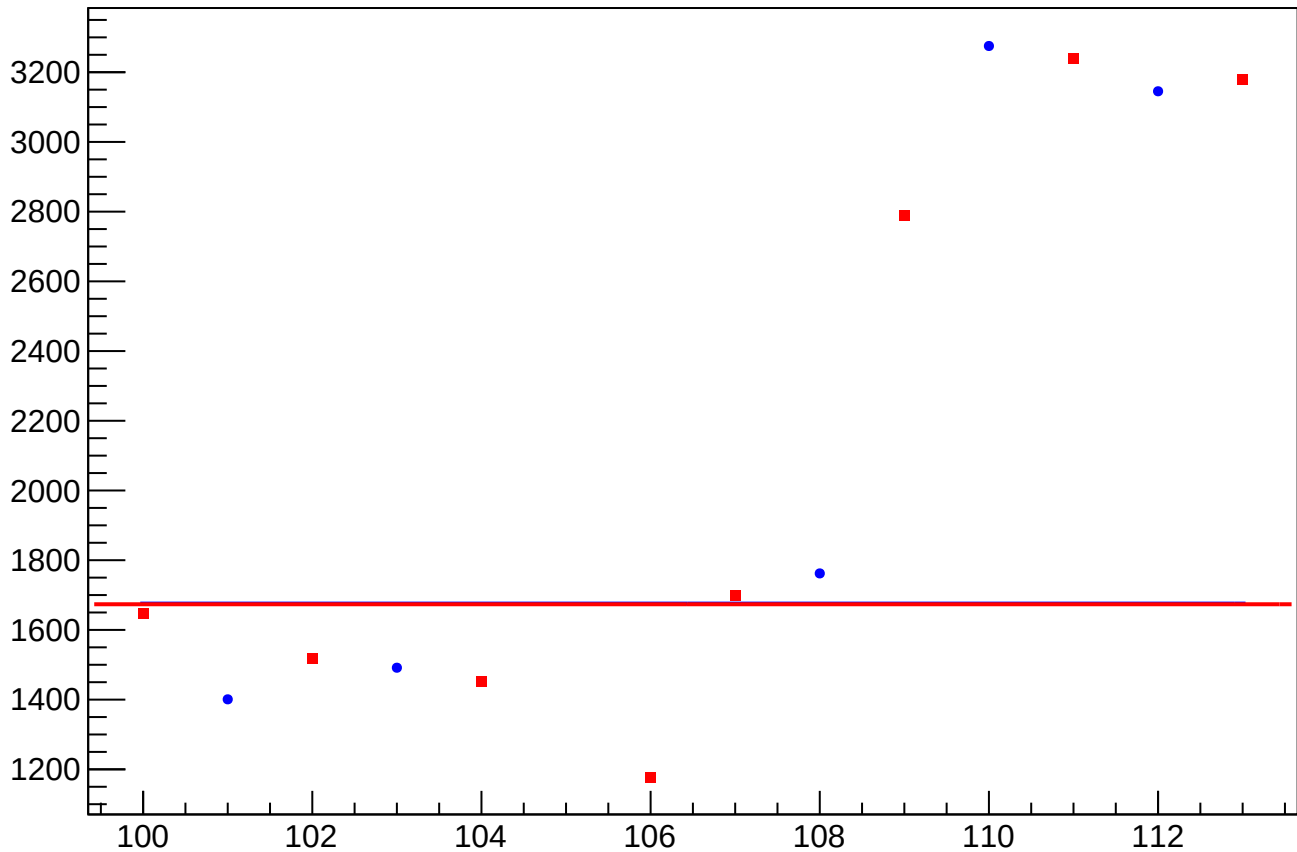
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.513 \pm 0.738$   $\chi^2/\text{NDF}$ : 11.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aediY\_rms vs Slug



Right In: 1675.435+/-0.783  $\chi^2/\text{NDF}$ : 468218.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1673.600+/-0.700  $\chi^2/\text{NDF}$ : 737569.3/7

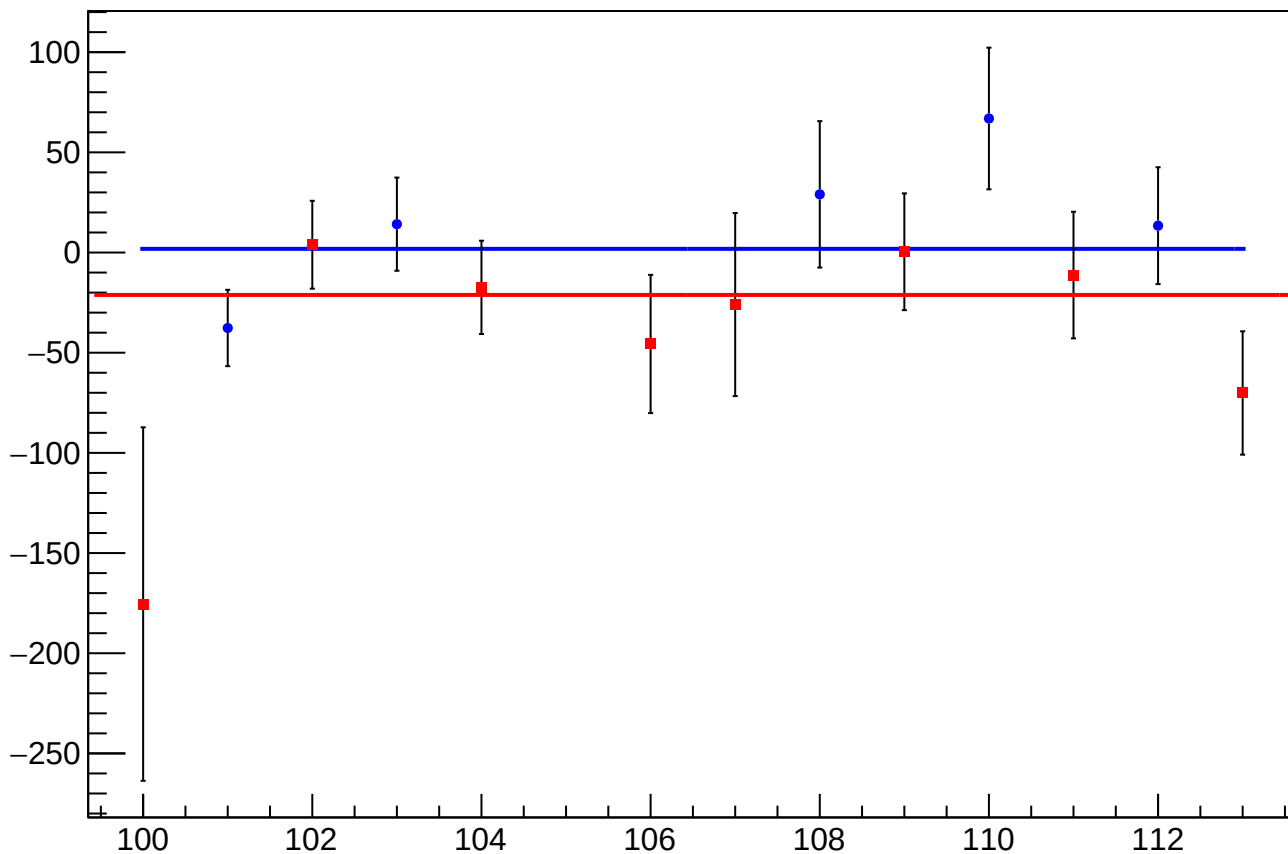
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1674.415+/-0.522  $\chi^2/\text{NDF}$ : 1205791.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmtargetsumX\_mean vs Slug



Right In: 1.837 $\pm$ 11.681  $\chi^2$ /NDF: 8.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -21.164 $\pm$ 10.780  $\chi^2$ /NDF: 8.1/7

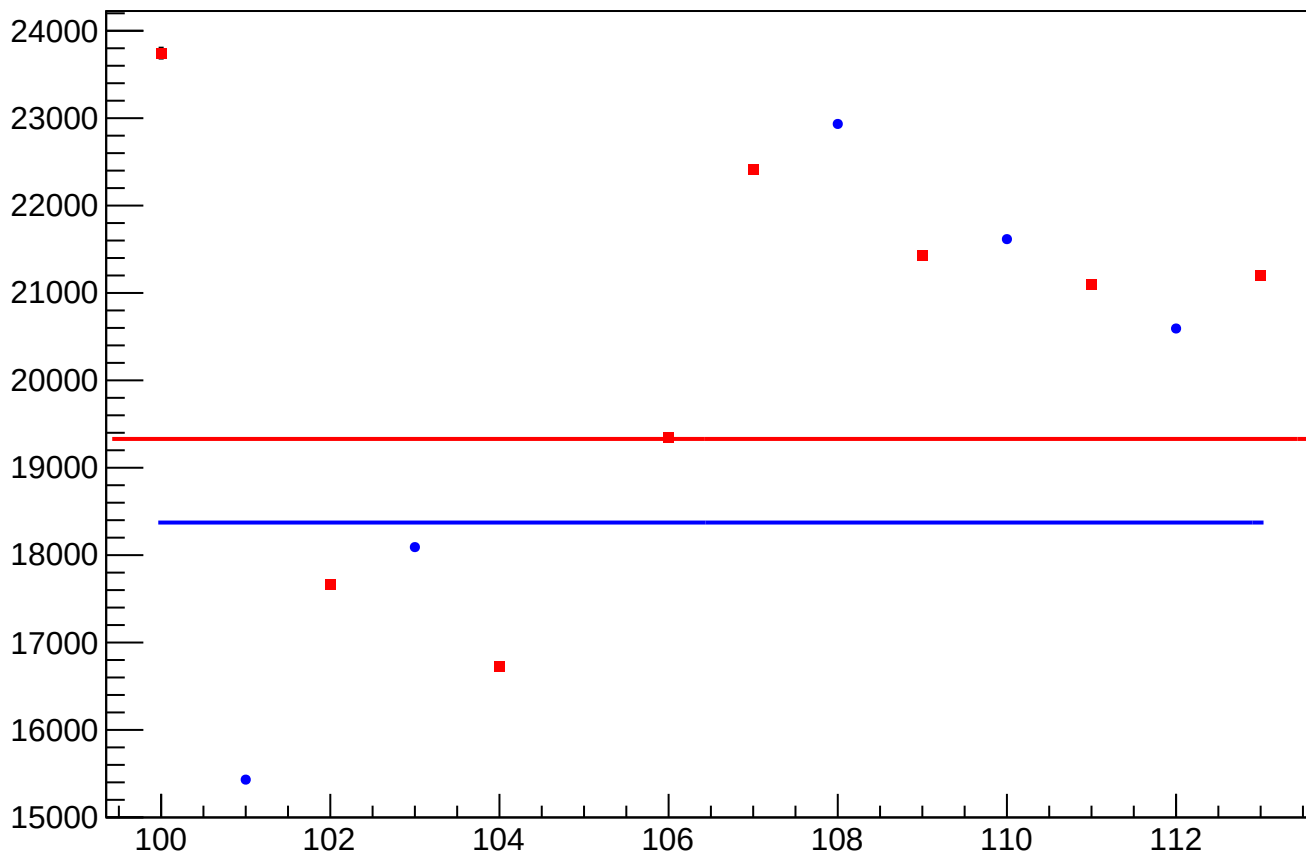
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -10.584 $\pm$ 7.922  $\chi^2$ /NDF: 18.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpmtargetsumX\_rms vs Slug



Right In: 18372.962 $\pm$ 8.260  $\chi^2$ /NDF: 107566.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 19329.632 $\pm$ 7.623  $\chi^2$ /NDF: 74770.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

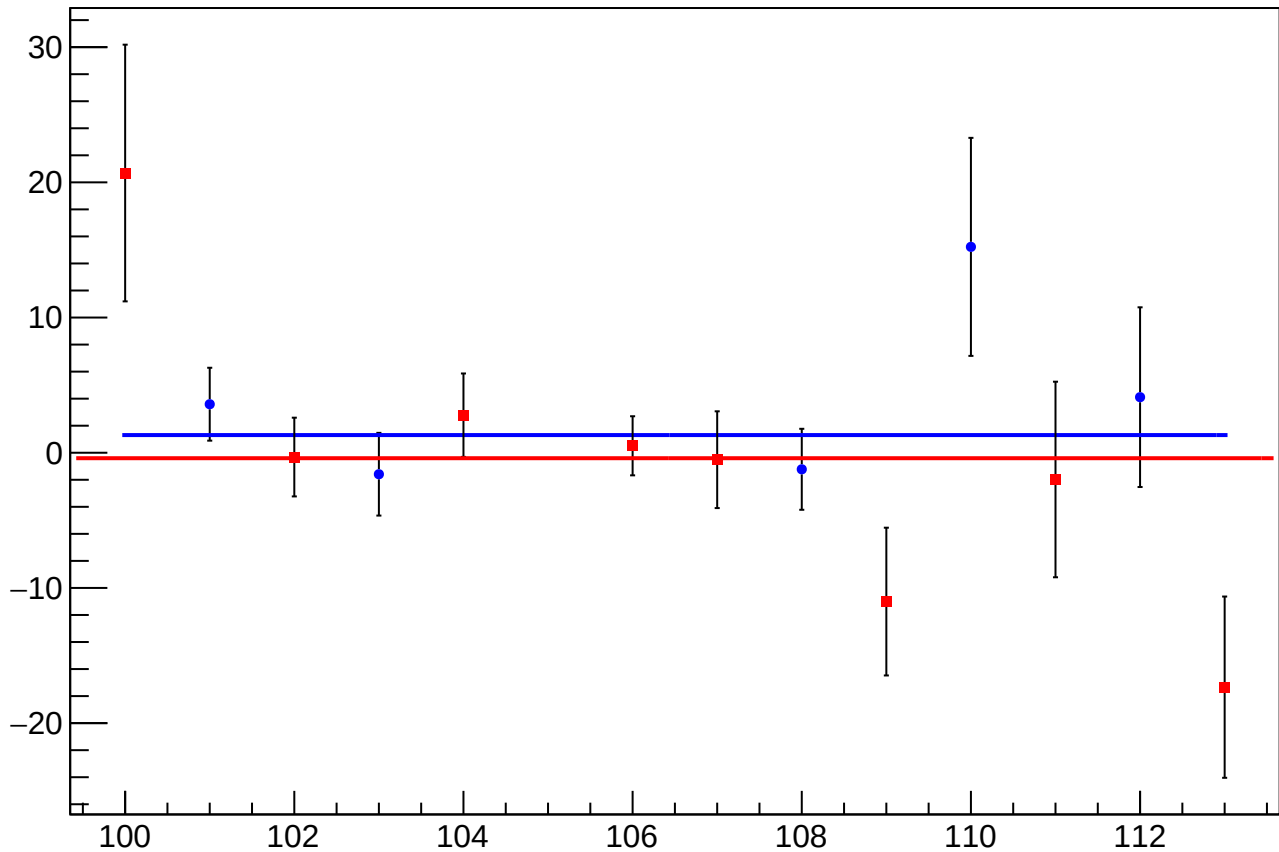
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18889.600 $\pm$ 5.602  $\chi^2$ /NDF: 189581.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpmtargetdiffX\_mean vs Slug



Right In: 1.307 $\pm$ 1.593  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.405 $\pm$ 1.295  $\chi^2$ /NDF: 16.4/7

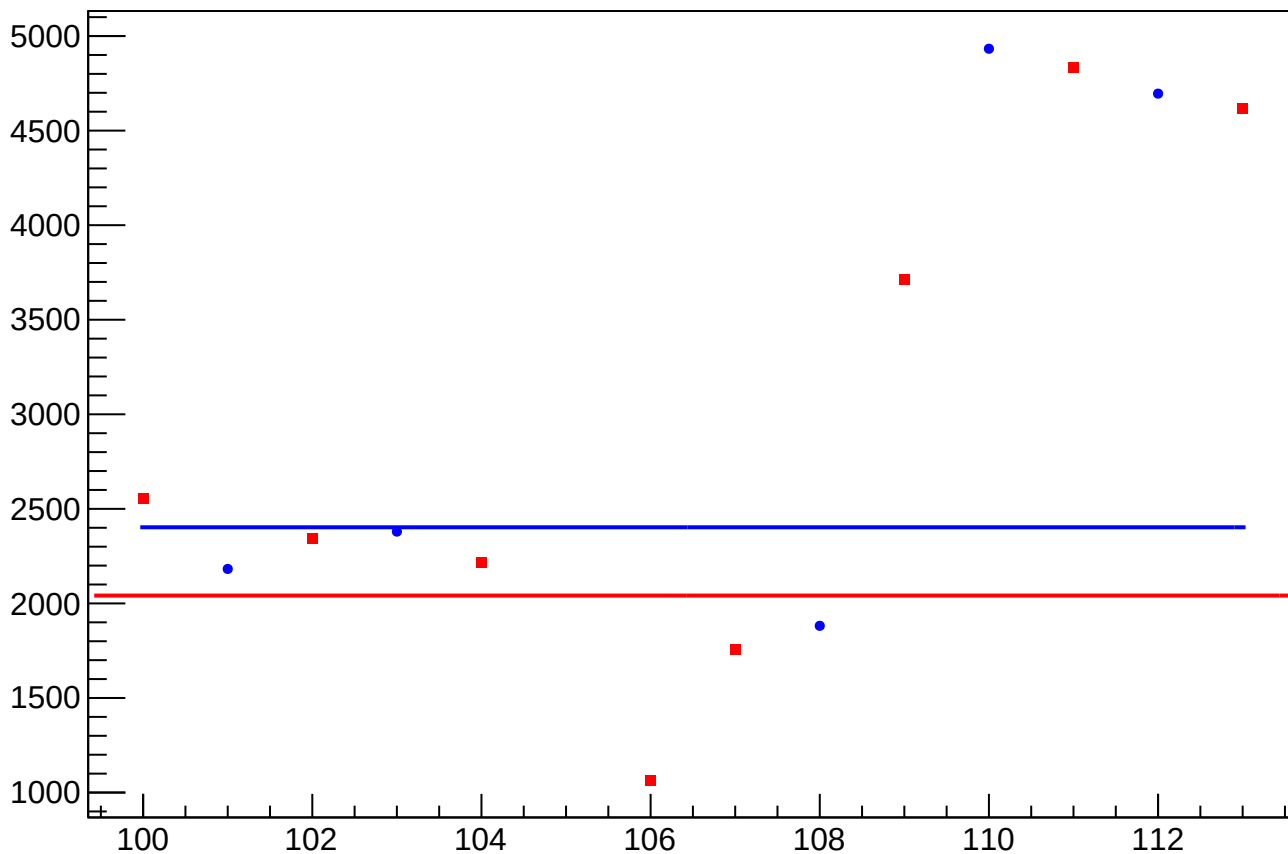
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.276 $\pm$ 1.005  $\chi^2$ /NDF: 22.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpmtargetdiffX\_rms vs Slug



Right In: 2402.557+/-1.127  $\chi^2/\text{NDF}$ : 508981.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

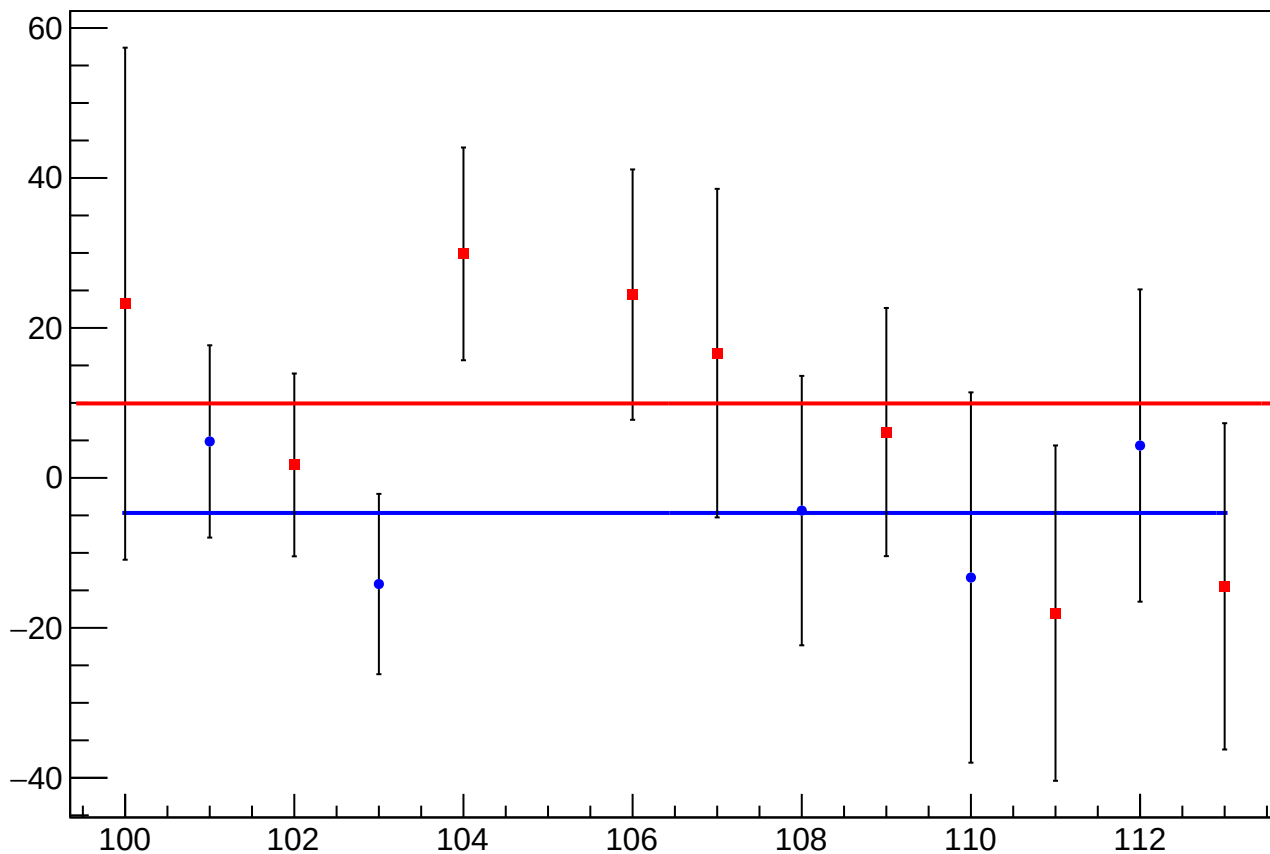
Right Out: 2041.472+/-0.916  $\chi^2/\text{NDF}$ : 1228157.1/7

All: 2185.118+/-0.711  $\chi^2/\text{NDF}$ : 1799004.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmtargetsumY\_mean vs Slug



Right In: -4.675+/-7.064  $\chi^2/\text{NDF}$ : 1.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9.930+/-6.203  $\chi^2/\text{NDF}$ : 6.3/7

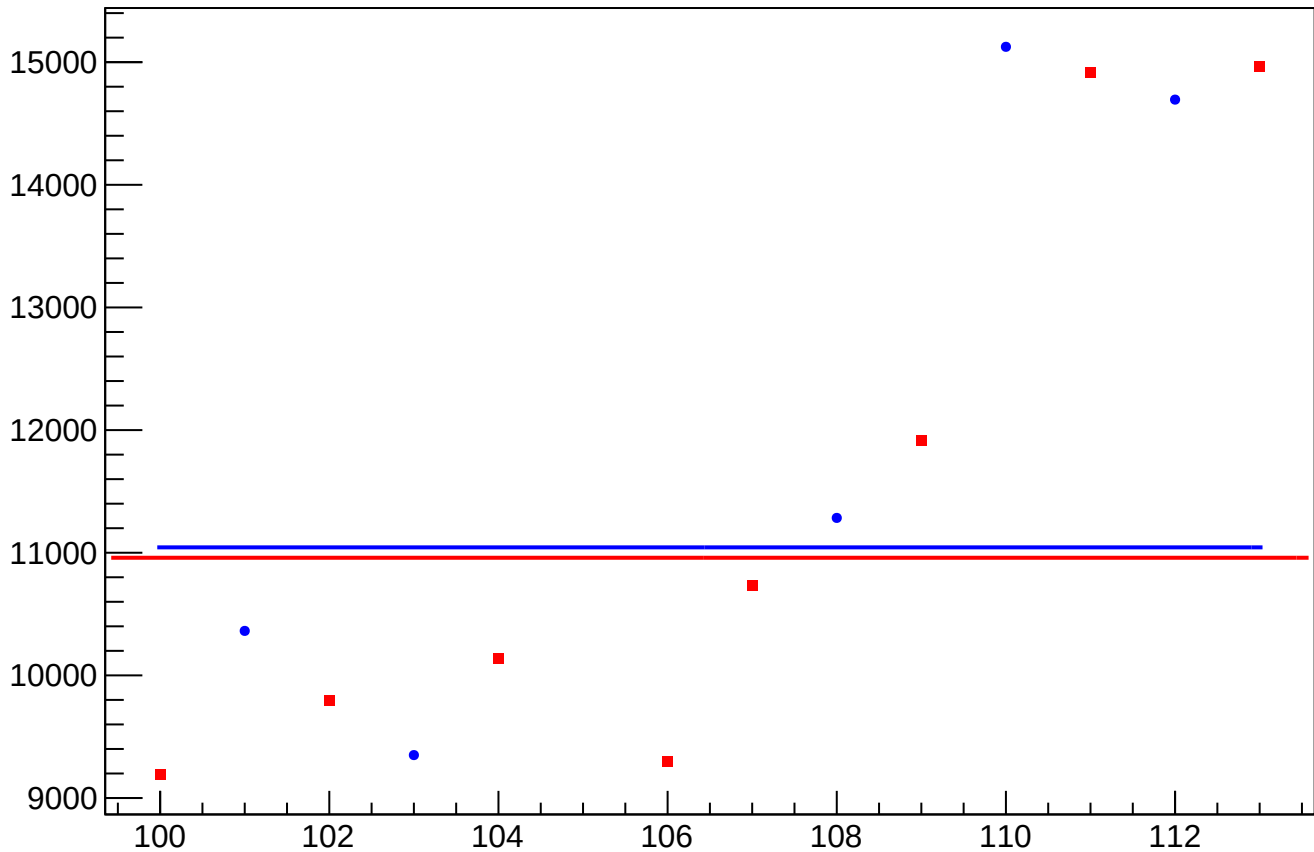
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.571+/-4.661  $\chi^2/\text{NDF}$ : 10.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmtargetsumY\_rms vs Slug



Right In: 11043.809 $\pm$ 4.995  $\chi^2$ /NDF: 161786.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

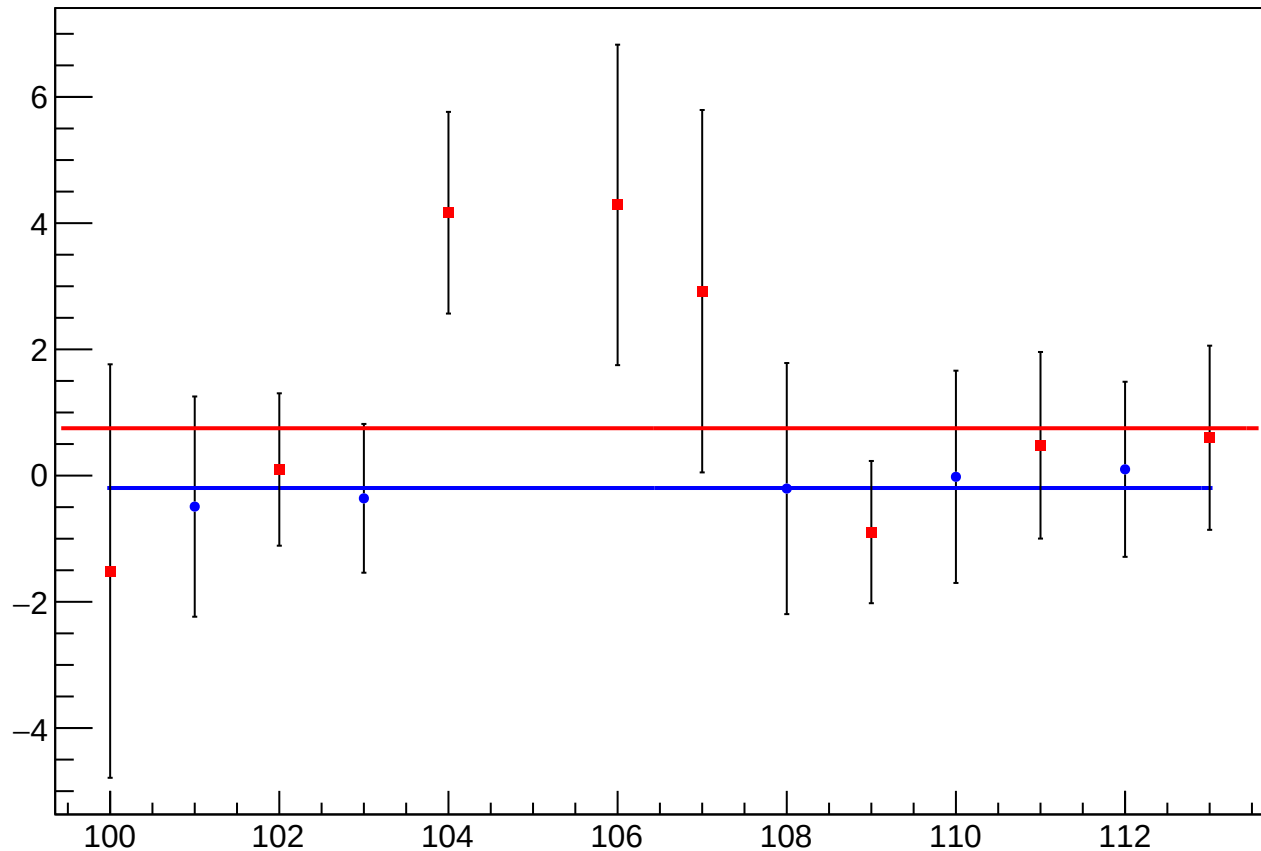
Right Out: 10959.130 $\pm$ 4.386  $\chi^2$ /NDF: 187306.2/7

All: 10995.998 $\pm$ 3.296  $\chi^2$ /NDF: 349254.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpmtargetdiffY\_mean vs Slug



Right In:  $-0.197 \pm 0.678$   $\chi^2/\text{NDF}$ : 0.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.750 \pm 0.562$   $\chi^2/\text{NDF}$ : 10.0/7

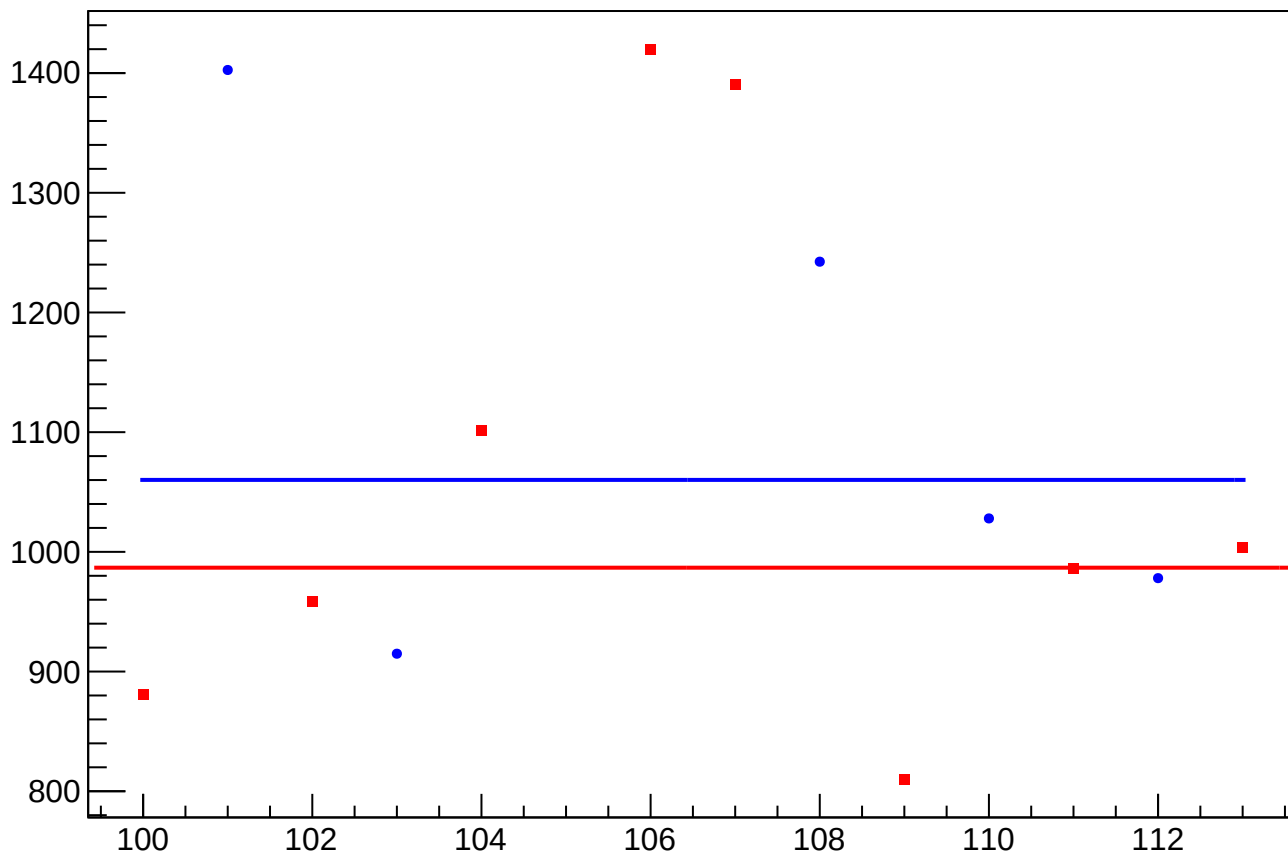
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.365 \pm 0.433$   $\chi^2/\text{NDF}$ : 11.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmtargetdiffY\_rms vs Slug



Right In: 1060.120+/-0.480  $\chi^2/\text{NDF}$ : 131930.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 986.776+/-0.398  $\chi^2/\text{NDF}$ : 160940.8/7

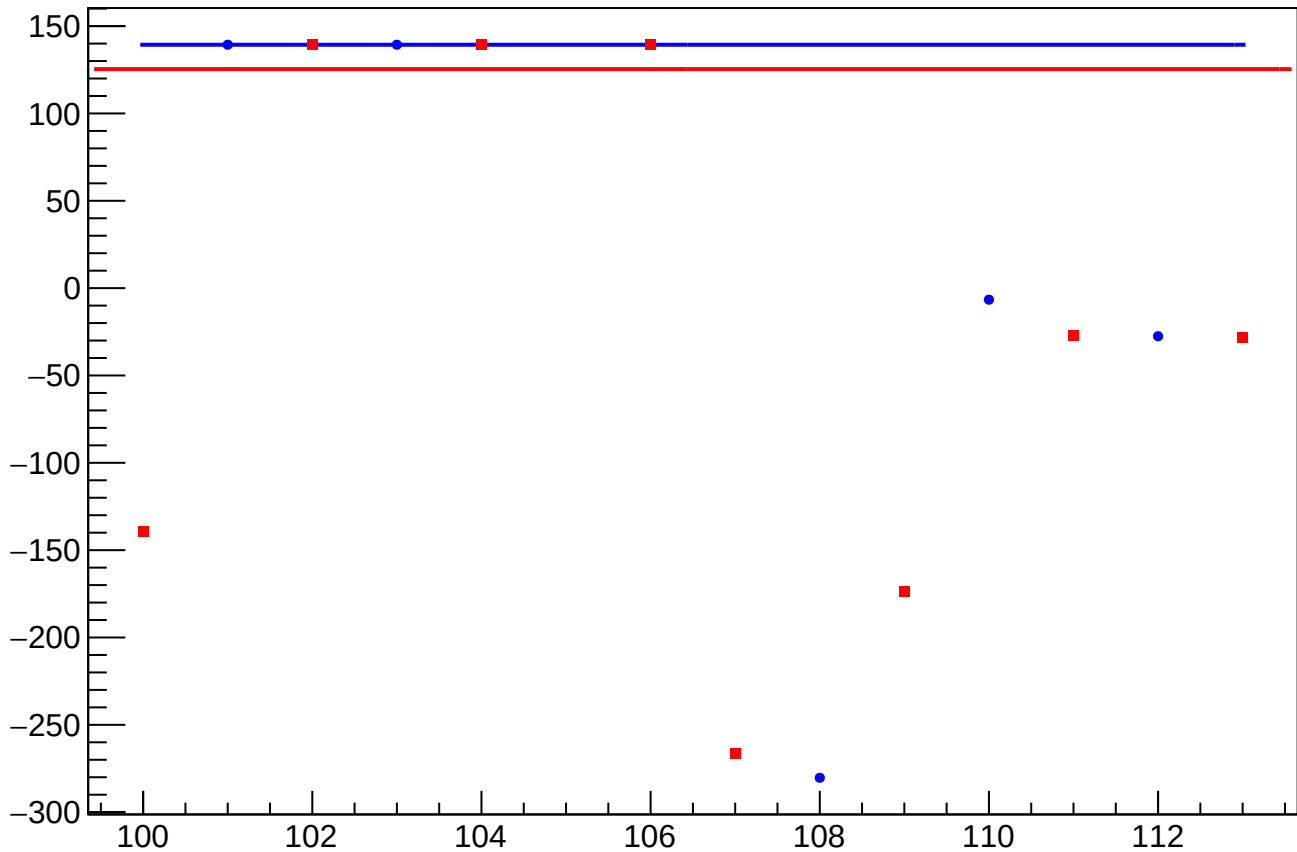
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1016.658+/-0.306  $\chi^2/\text{NDF}$ : 306730.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_cav4bX\_mean vs Slug



Right In: 139.338+/-0.000  $\chi^2/\text{NDF}$ : 12621208307.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

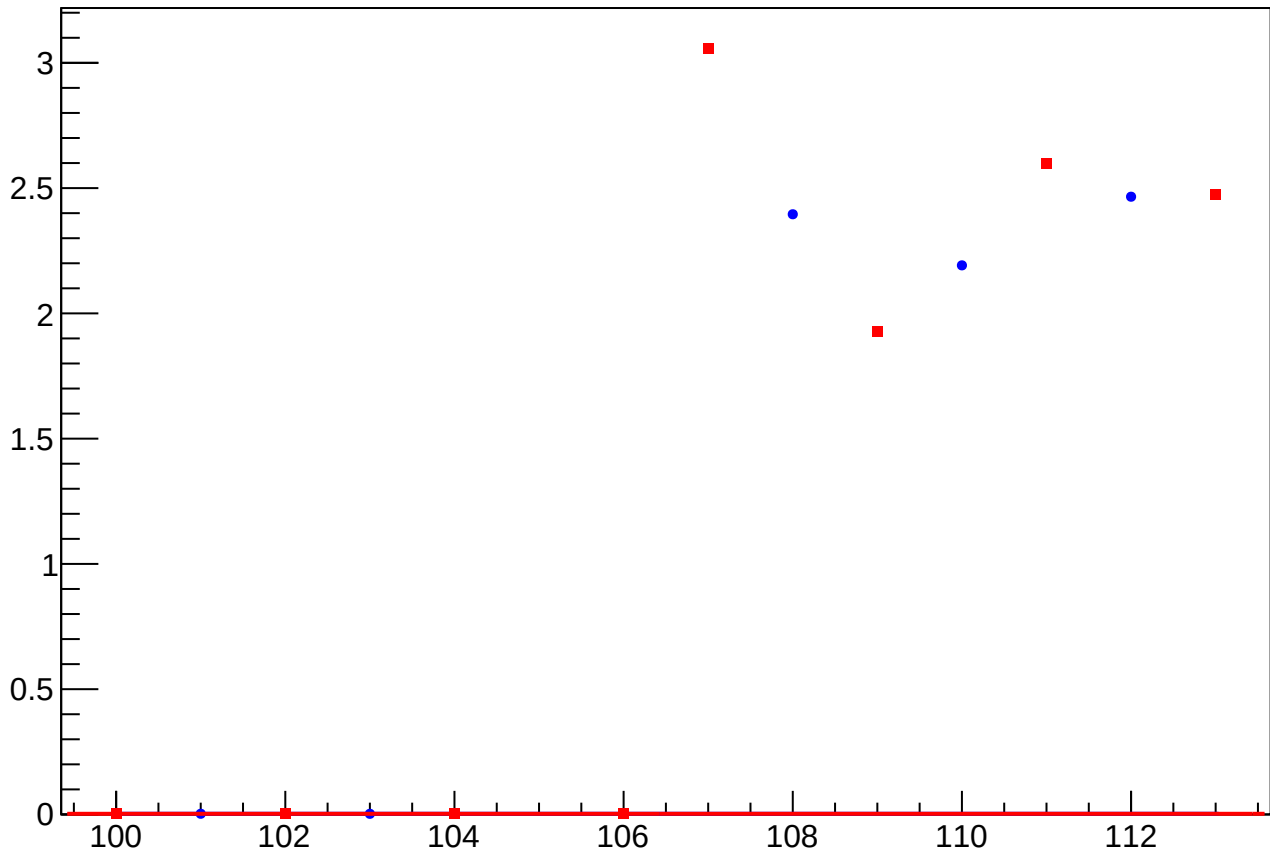
Right Out: 125.393+/-0.000  $\chi^2/\text{NDF}$ : 774144791778009.8/7

All: 131.819+/-0.000  $\chi^2/\text{NDF}$ : 792942807000.0/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4bX\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2084962.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2742681.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

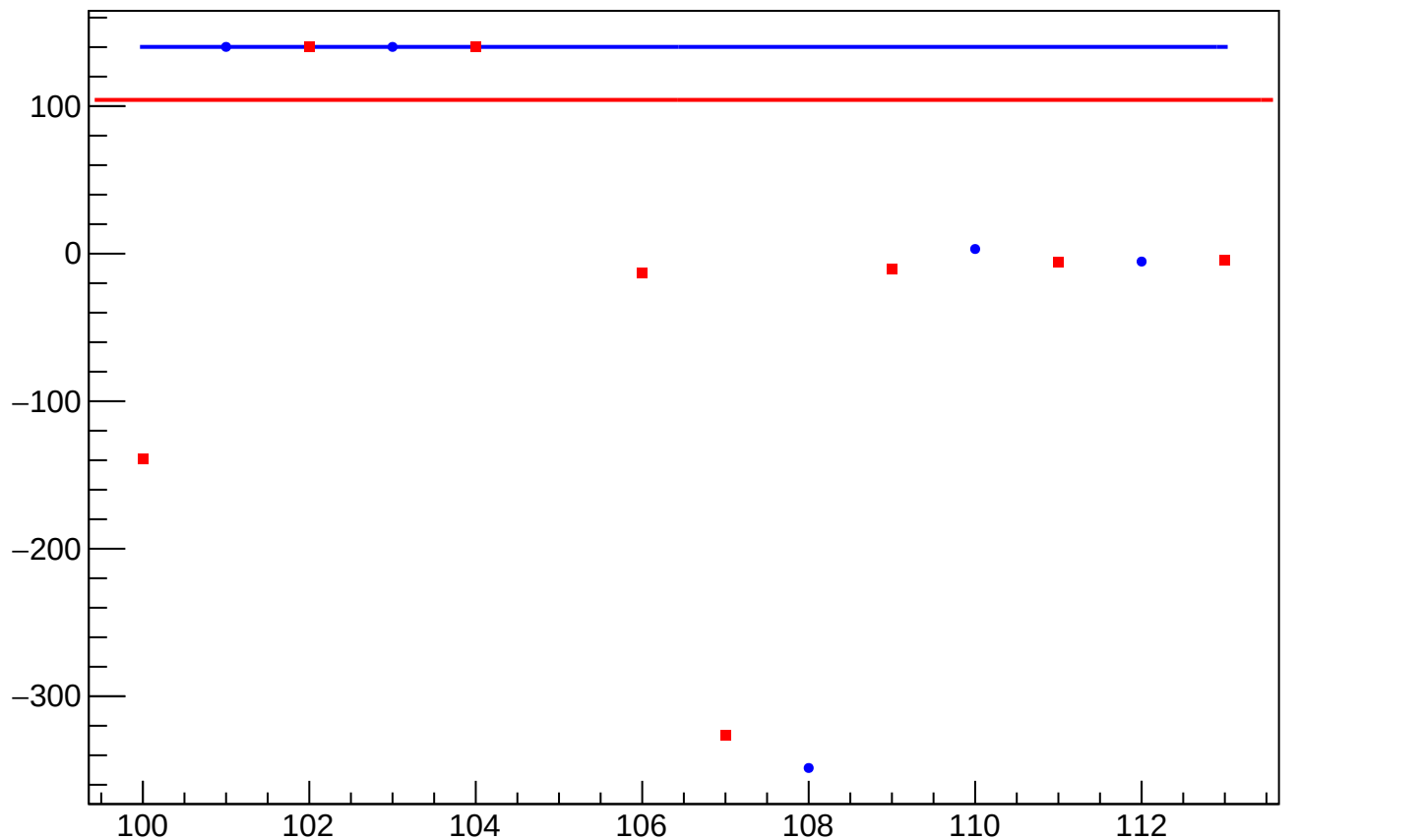
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 4827798.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_cav4bY\_mean vs Slug



Right In: 140.149 $\pm$ 0.000  $\chi^2$ /NDF: 7997244712.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

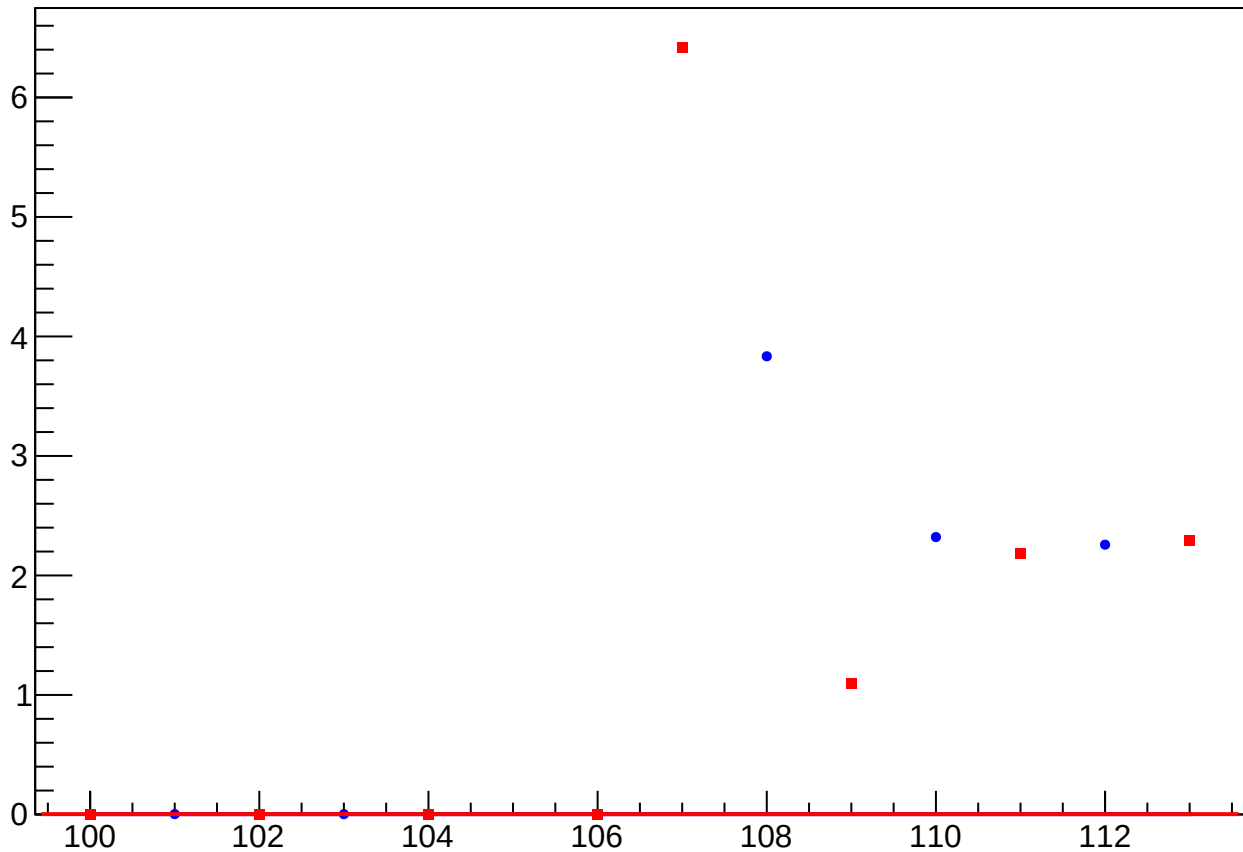
Right Out: 104.227 $\pm$ 0.000  $\chi^2$ /NDF: 1257299757687132.2/7

All: 120.835 $\pm$ 0.000  $\chi^2$ /NDF: 13806253438

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4bY\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2186477.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2621346.2/7

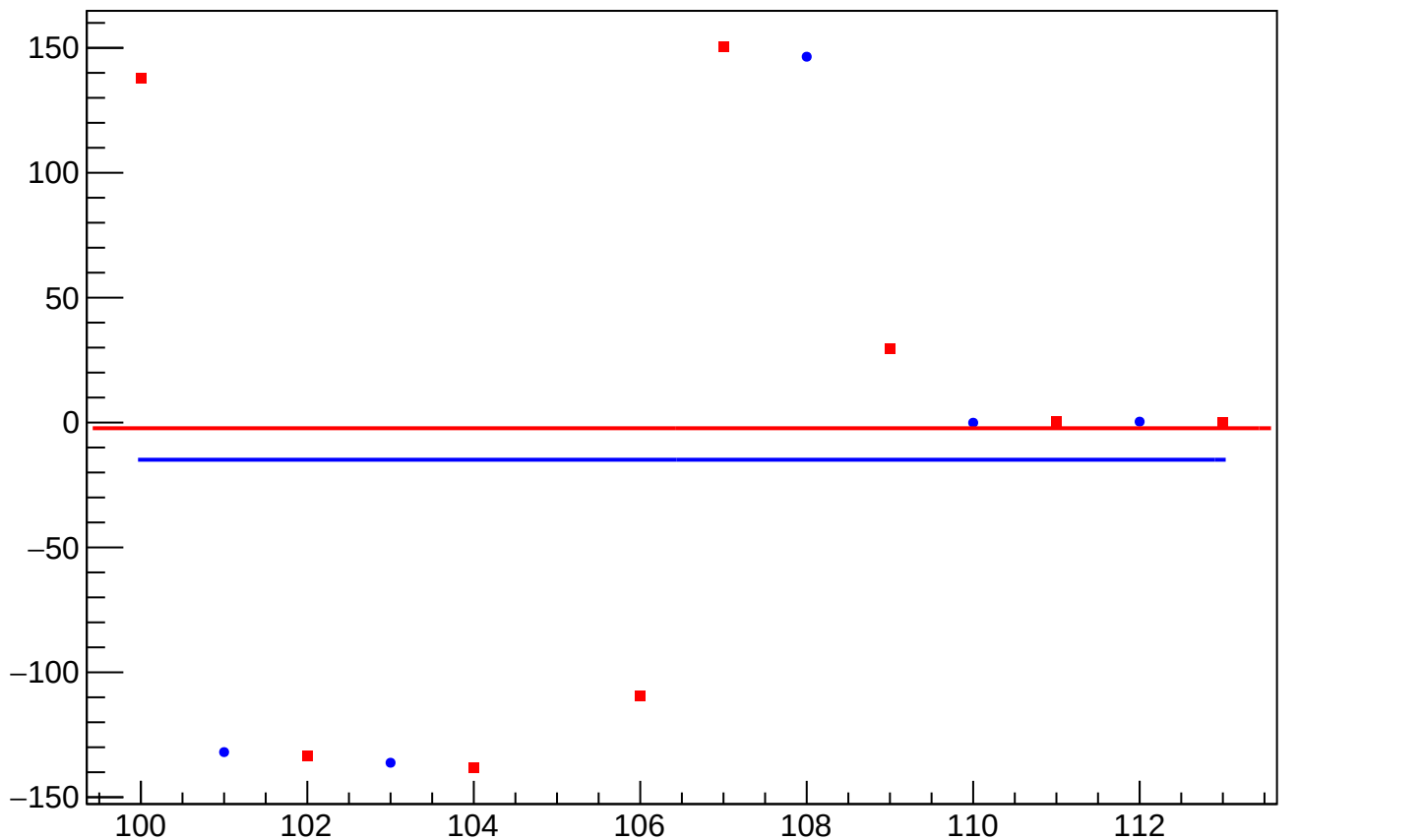
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 4807967.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cX\_mean vs Slug



Right In: -14.891+/-0.001  $\chi^2/\text{NDF}$ : 9328870255.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

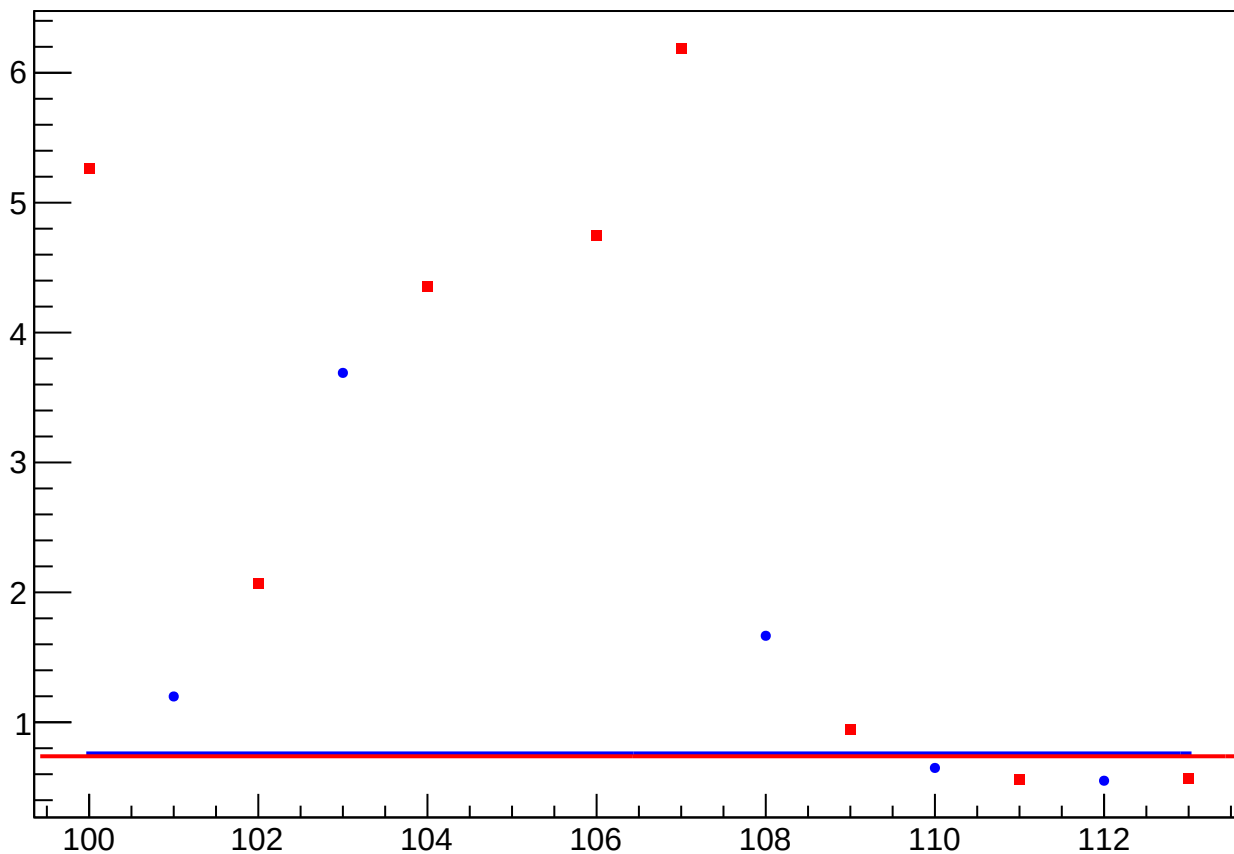
Right Out: -2.279+/-0.001  $\chi^2/\text{NDF}$ : 3584988705.1/7

All: -8.117+/-0.000  $\chi^2/\text{NDF}$ : 13145538679.7/11

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cX\_rms vs Slug



Right In: 0.760 $\pm$ 0.000  $\chi^2$ /NDF: 1097277.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.738 $\pm$ 0.000  $\chi^2$ /NDF: 2056541.6/7

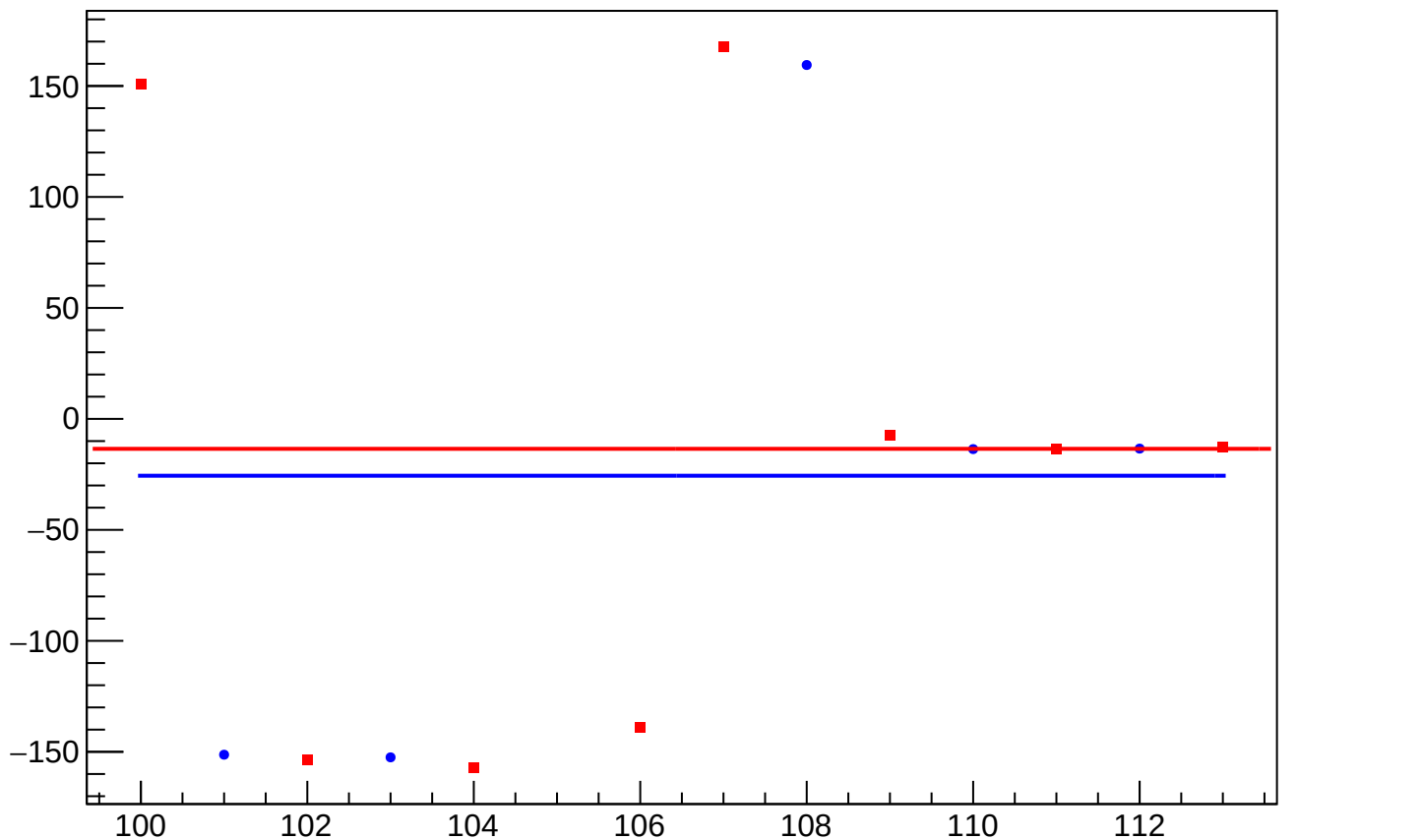
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.748 $\pm$ 0.000  $\chi^2$ /NDF: 3155218.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4cY\_mean vs Slug



Right In: -25.615 $\pm$ 0.001  $\chi^2$ /NDF: 3208907549.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

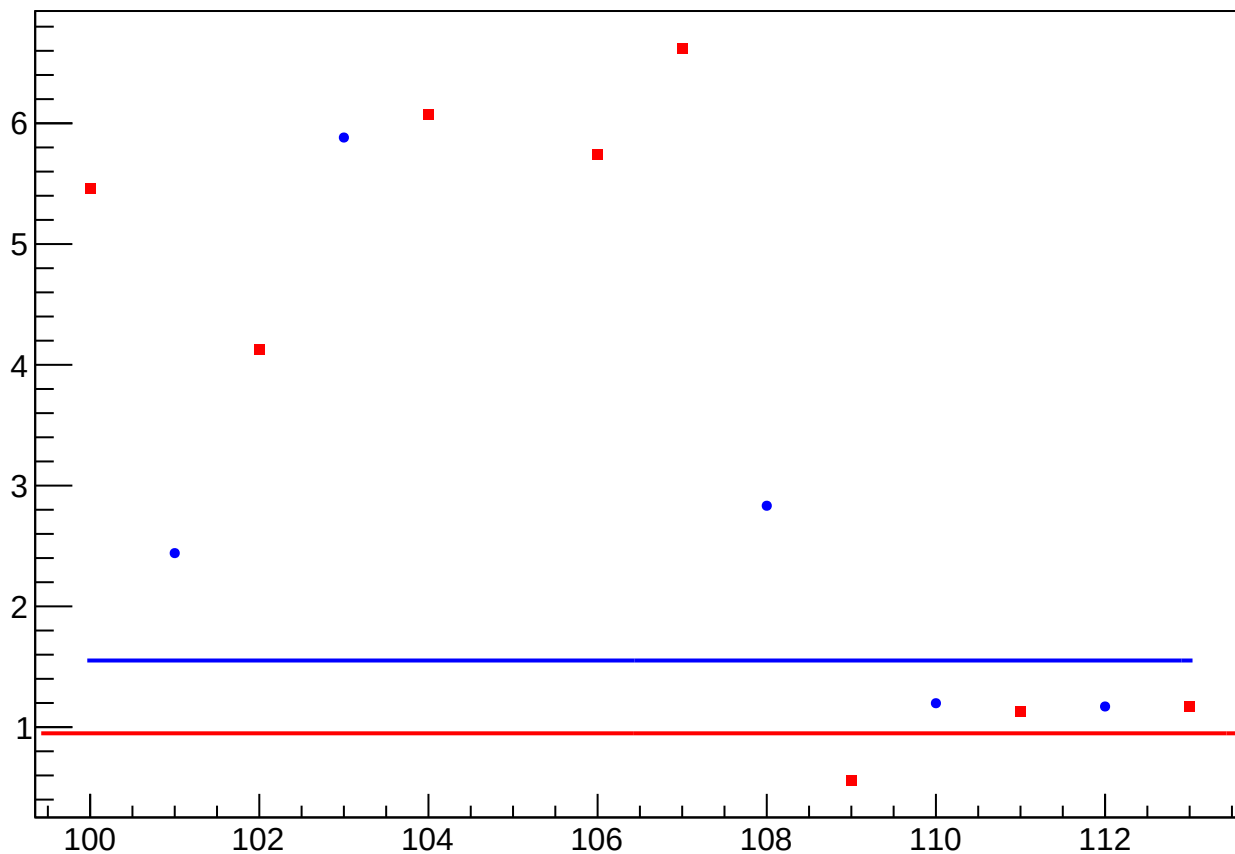
Right Out: -13.487 $\pm$ 0.001  $\chi^2$ /NDF: 1279392948.7/7

All: -17.147 $\pm$ 0.001  $\chi^2$ /NDF: 4561889066.4/14

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4cY\_rms vs Slug



Right In: 1.552 $\pm$ 0.001  $\chi^2$ /NDF: 1074915.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.949 $\pm$ 0.001  $\chi^2$ /NDF: 2394861.9/7

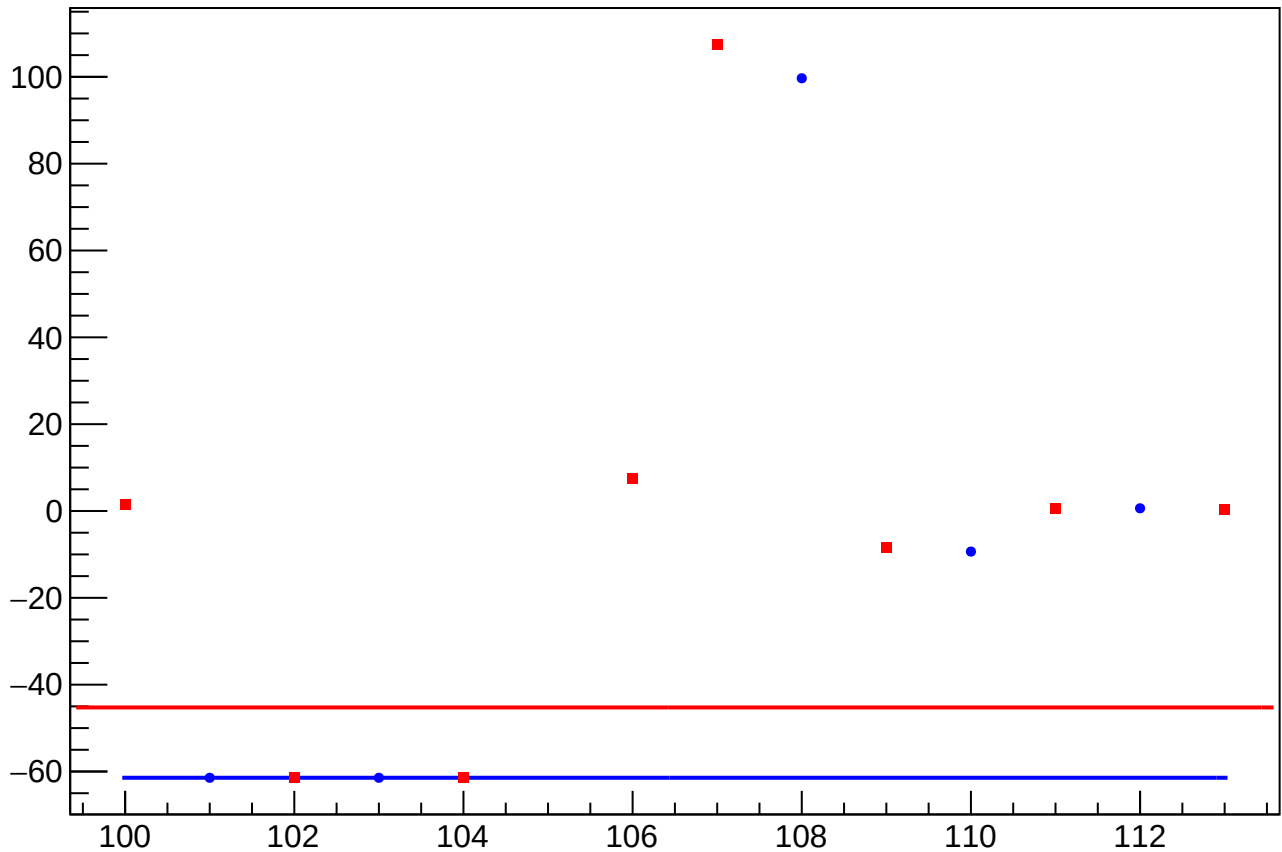
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.131 $\pm$ 0.000  $\chi^2$ /NDF: 3833480.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4dX\_mean vs Slug



Right In: -61.439+/-0.000  $\chi^2/\text{NDF}$ : 197290573963.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -45.247+/-0.000  $\chi^2/\text{NDF}$ : 357837903723910.9/7

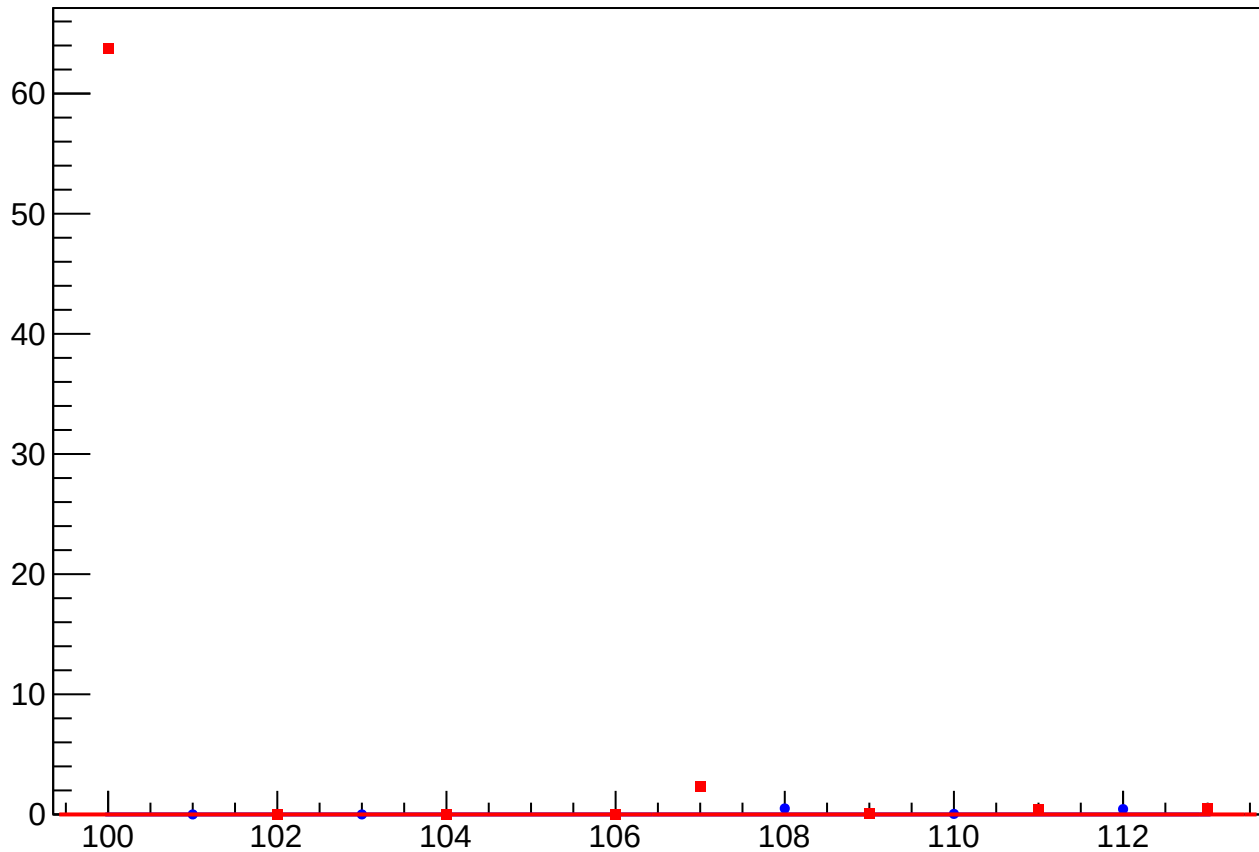
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -52.751+/-0.000  $\chi^2/\text{NDF}$ : 409021664871

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dX\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1726043.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2463114.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

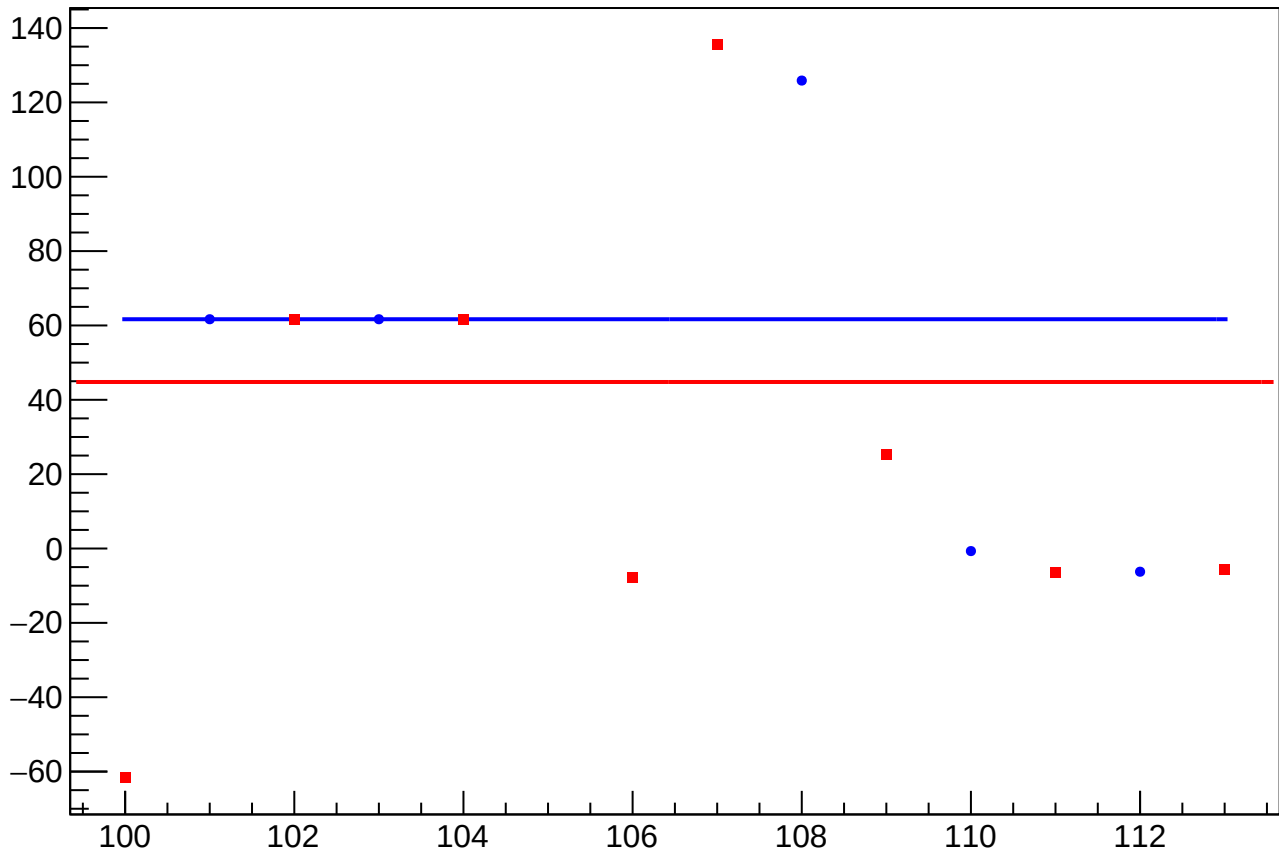
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4189163.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_cav4dY\_mean vs Slug



Right In: 61.673+/-0.000  $\chi^2/\text{NDF}$ : 4969789940.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 44.793+/-0.000  $\chi^2/\text{NDF}$ : 365871895024840.8/7

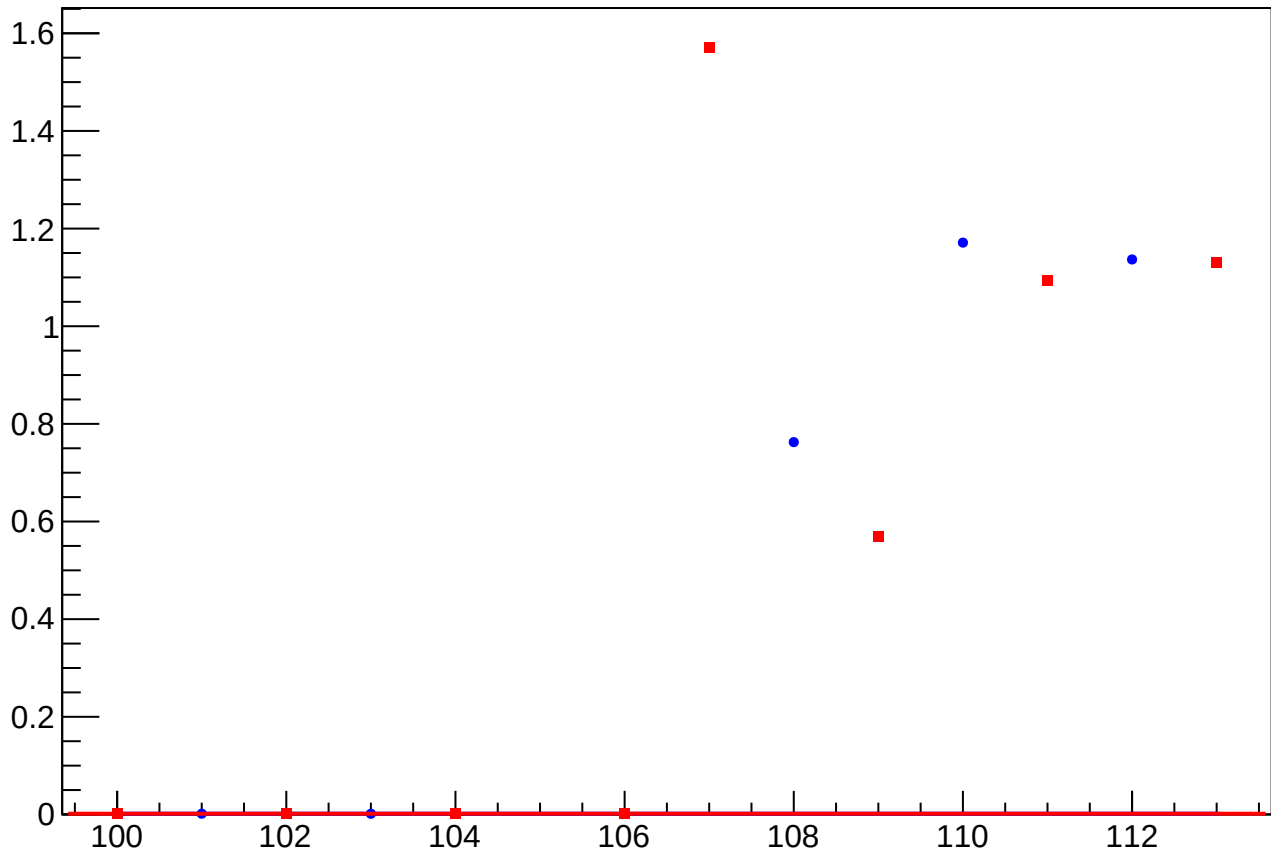
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52.698+/-0.000  $\chi^2/\text{NDF}$ : 4169990444178

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dY\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2244518.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2642549.6/7

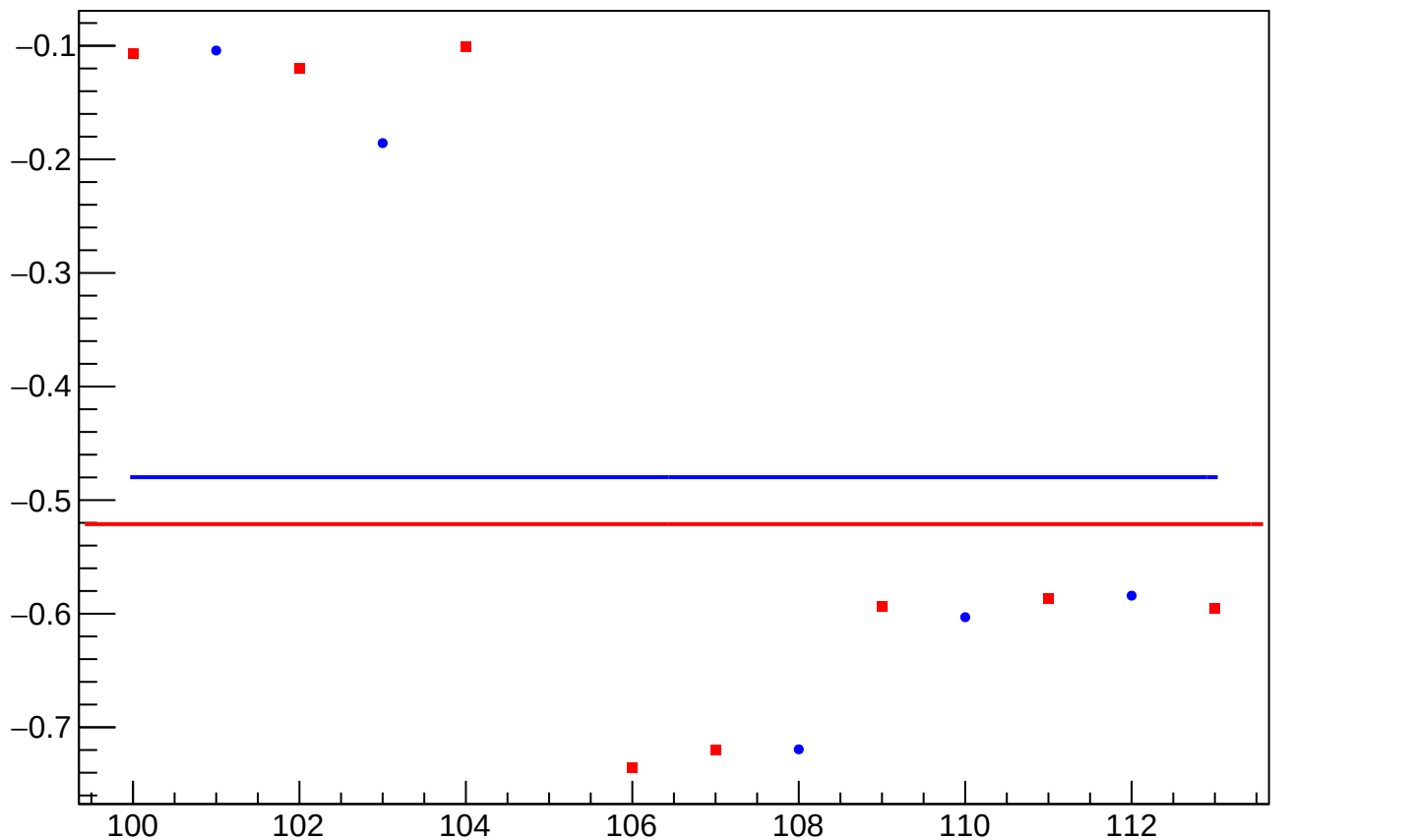
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4887320.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aX\_mean vs Slug



Right In: -0.480+/-0.000  $\chi^2/\text{NDF}$ : 103715805.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.521+/-0.000  $\chi^2/\text{NDF}$ : 94548251.2/7

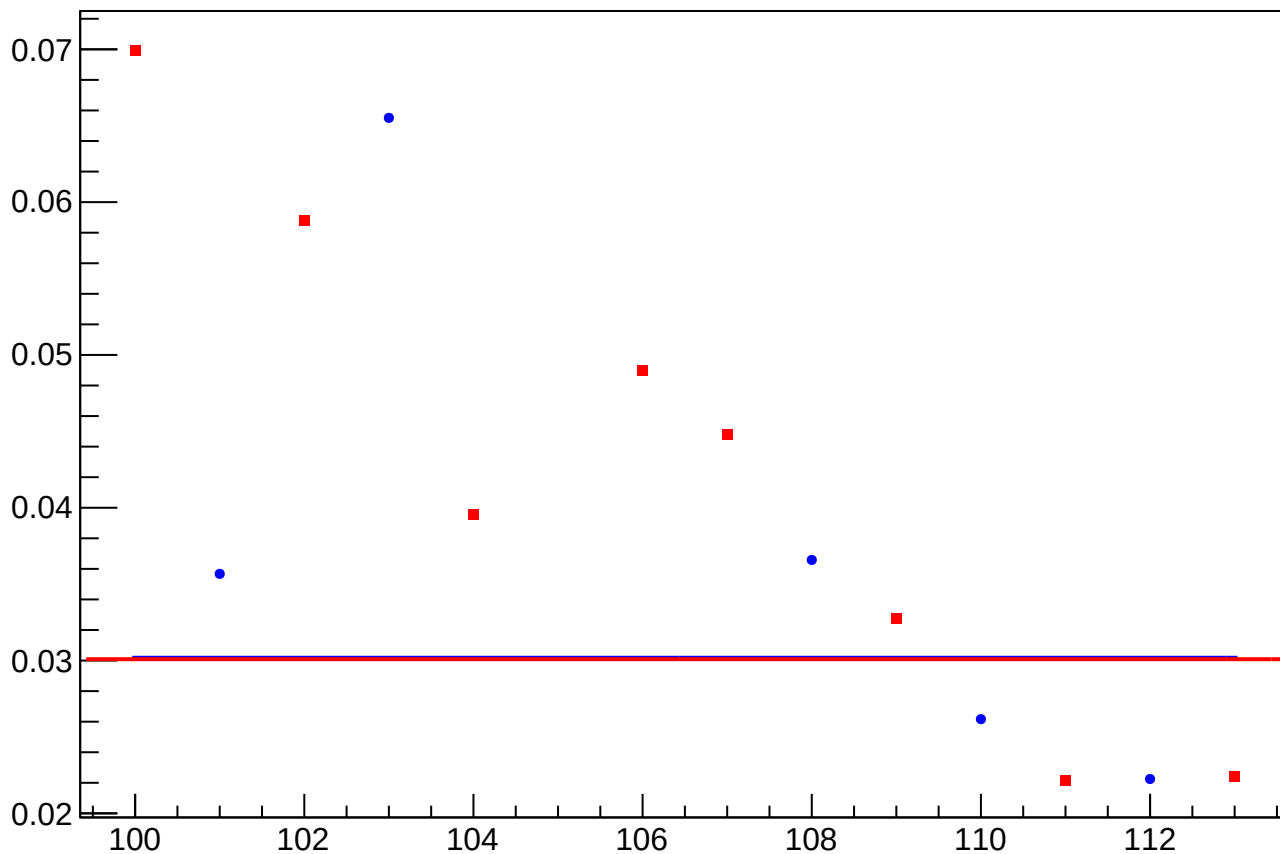
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.503+/-0.000  $\chi^2/\text{NDF}$ : 200290993.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aX\_rms vs Slug



Right In: 0.030+/-0.000  $\chi^2/\text{NDF}$ : 504211.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.030+/-0.000  $\chi^2/\text{NDF}$ : 677365.1/7

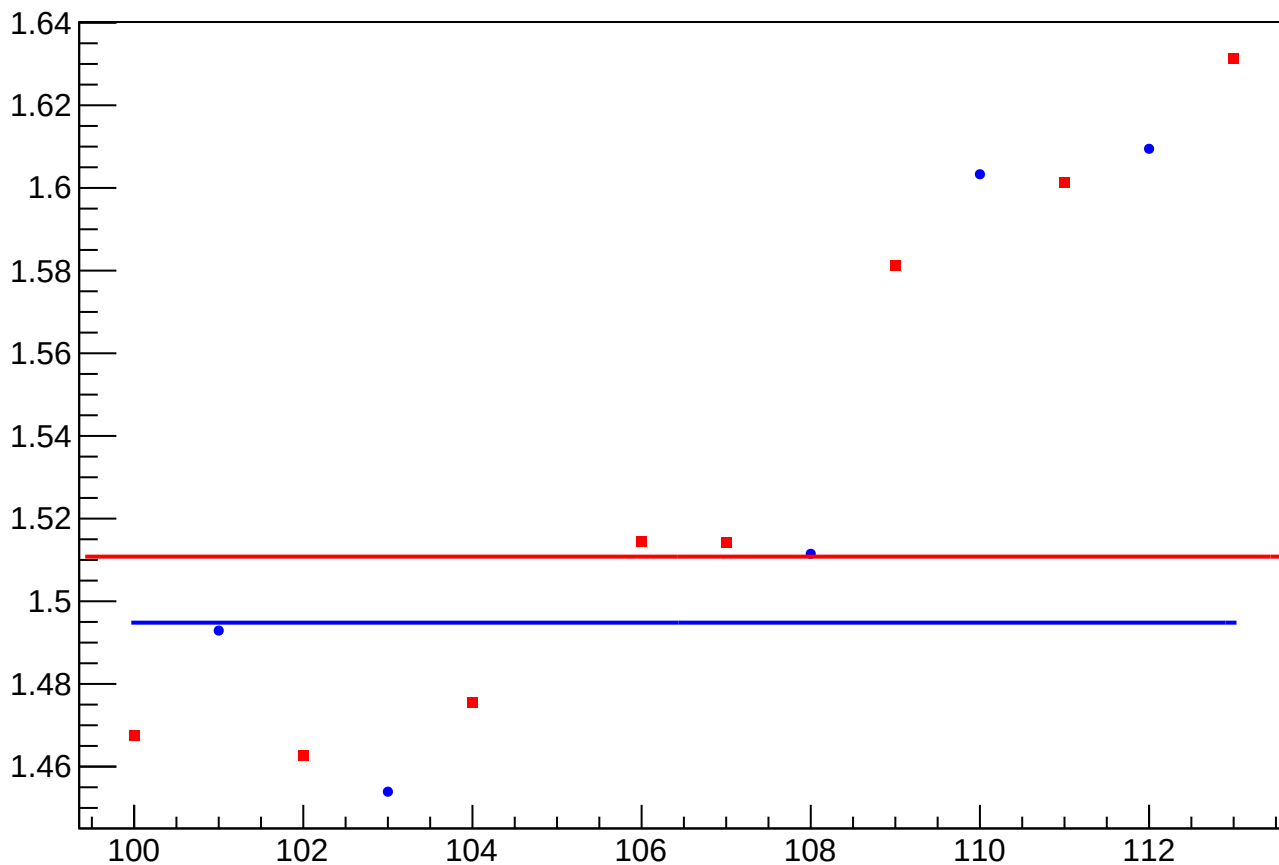
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.030+/-0.000  $\chi^2/\text{NDF}$ : 1181597.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aY\_mean vs Slug



Right In: 1.495+/-0.000  $\chi^2/\text{NDF}$ : 8346717.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.511+/-0.000  $\chi^2/\text{NDF}$ : 18106943.9/7

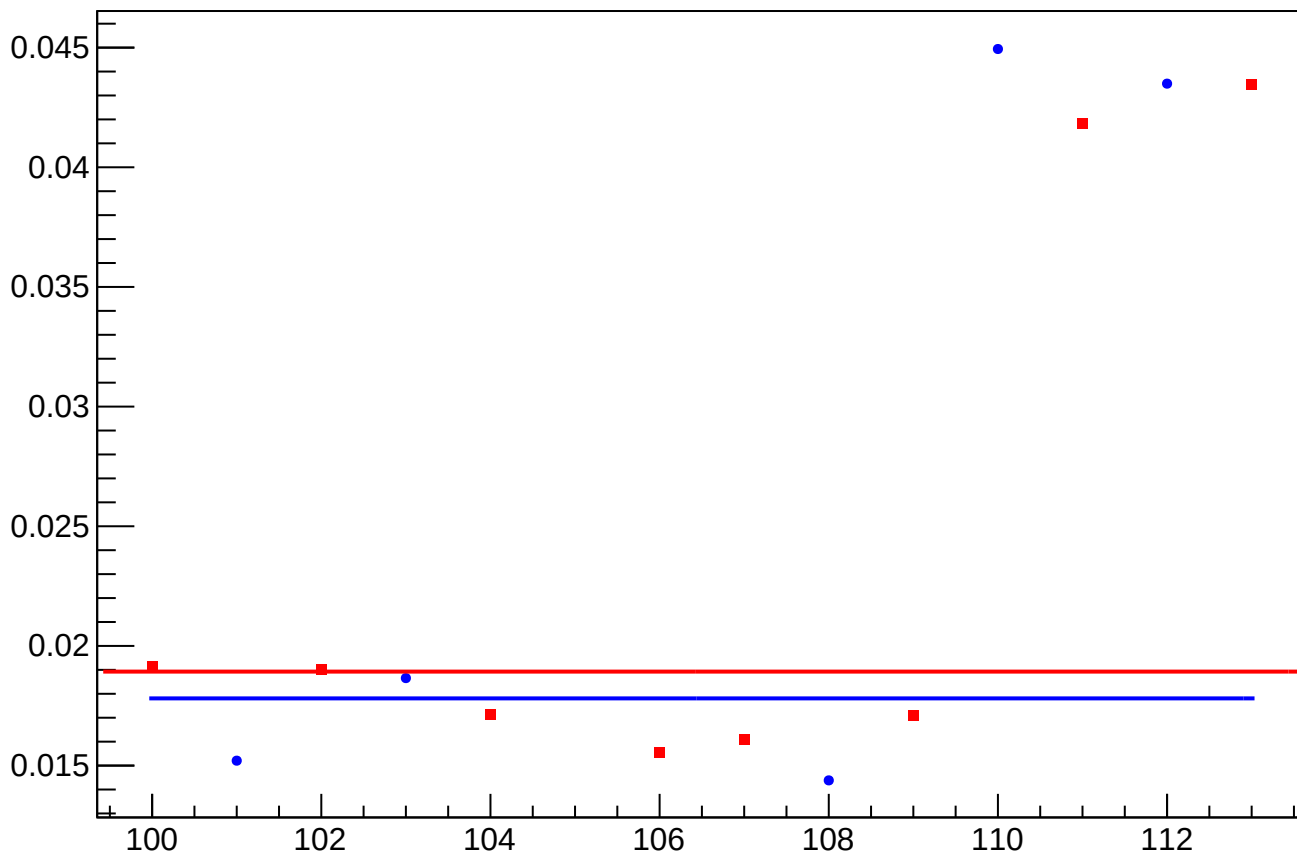
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.503+/-0.000  $\chi^2/\text{NDF}$ : 27306896.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aY\_rms vs Slug



Right In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 637961.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 592718.6/7

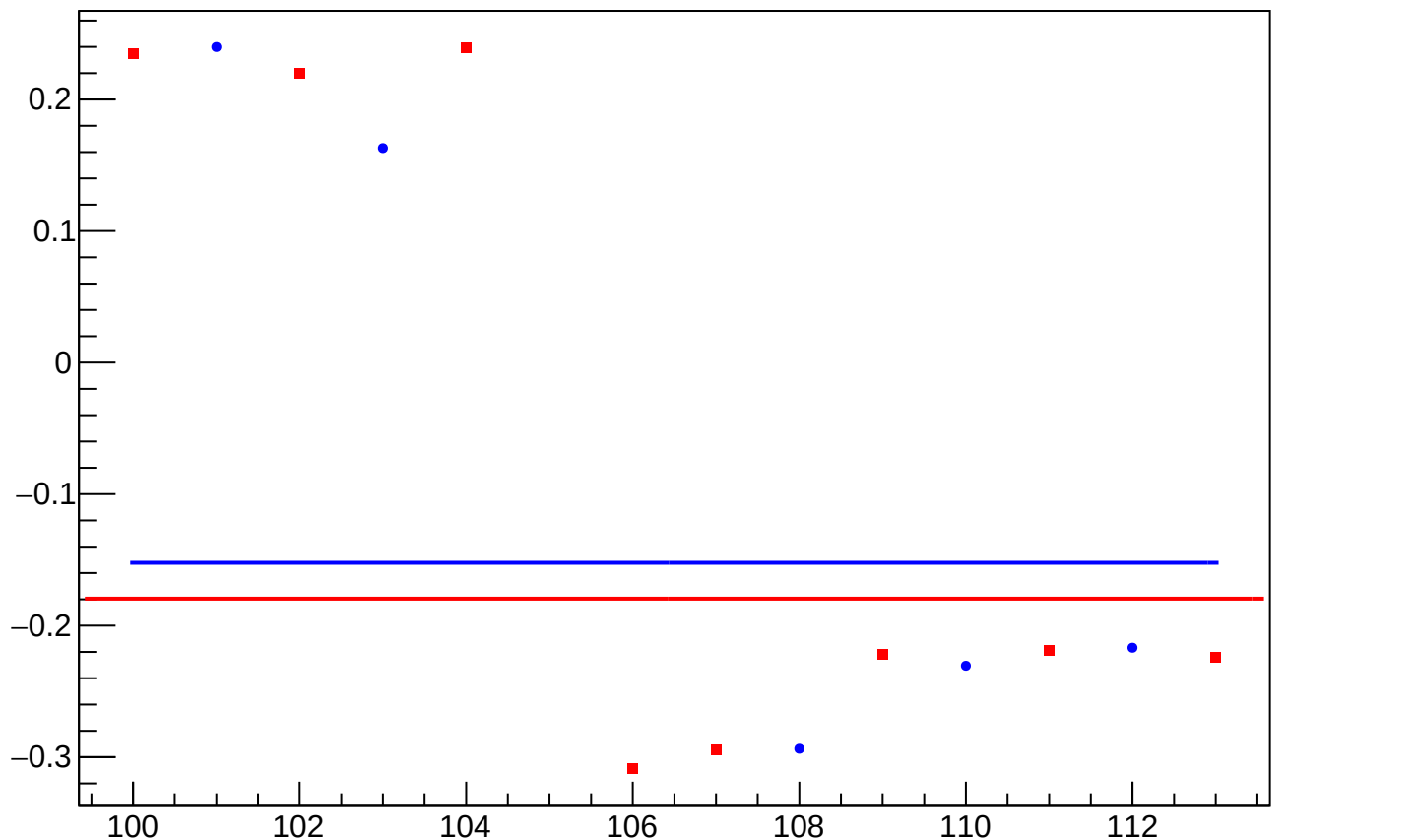
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 1239059.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eX\_mean vs Slug



Right In: -0.152+/-0.000  $\chi^2/\text{NDF}$ : 89359913.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.179+/-0.000  $\chi^2/\text{NDF}$ : 80580076.3/7

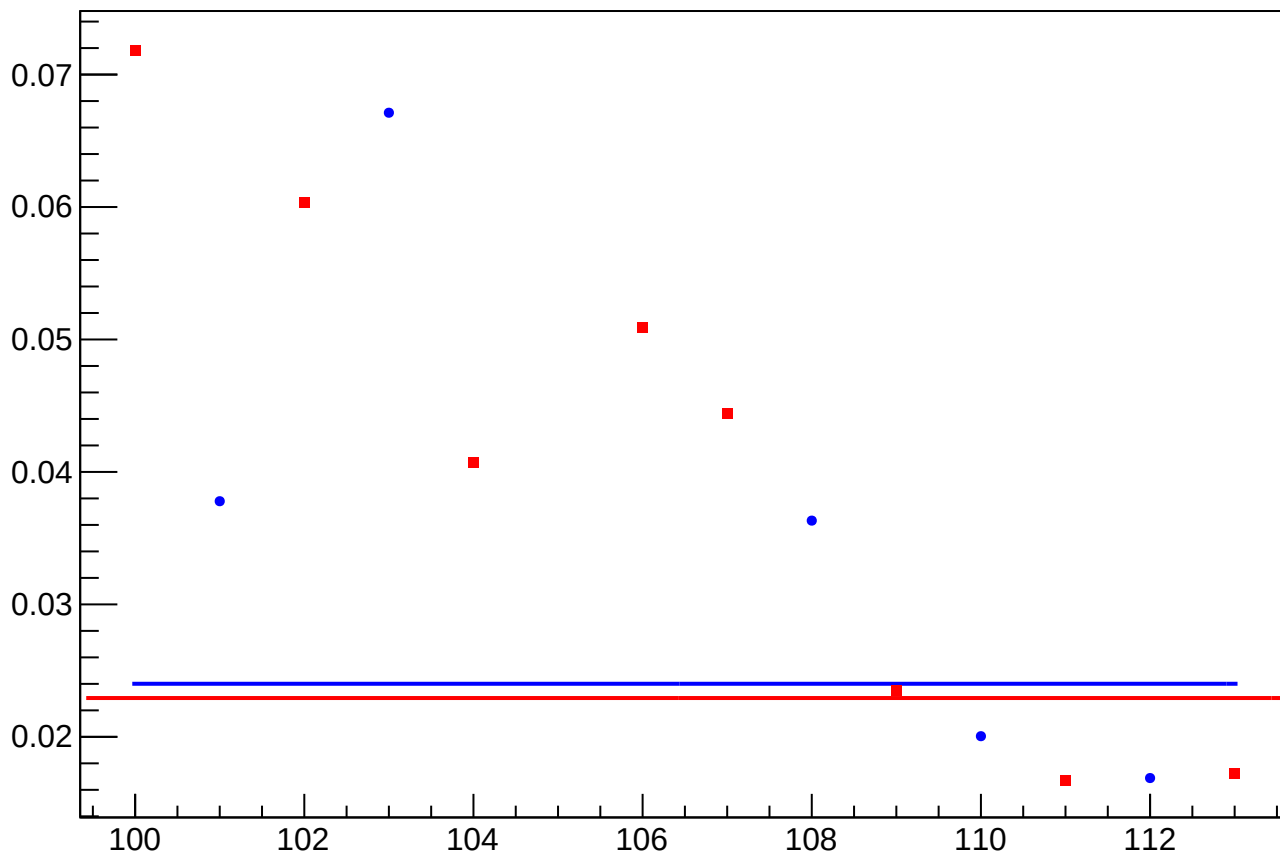
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.168+/-0.000  $\chi^2/\text{NDF}$ : 171259784.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eX\_rms vs Slug



Right In: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 876095.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 1095519.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

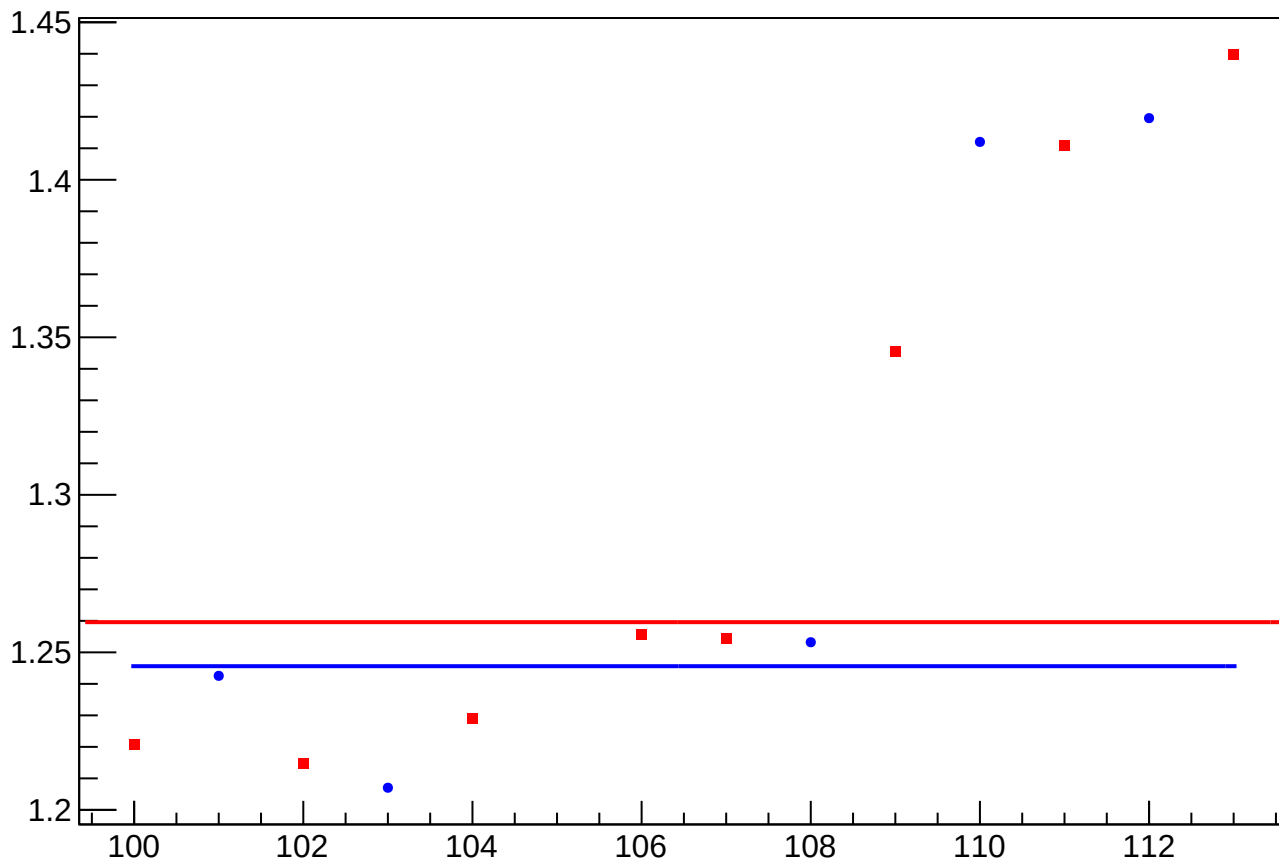
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 1975729.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm4eY\_mean vs Slug



Right In: 1.246+/-0.000  $\chi^2/\text{NDF}$ : 16437657.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.260+/-0.000  $\chi^2/\text{NDF}$ : 31670960.9/7

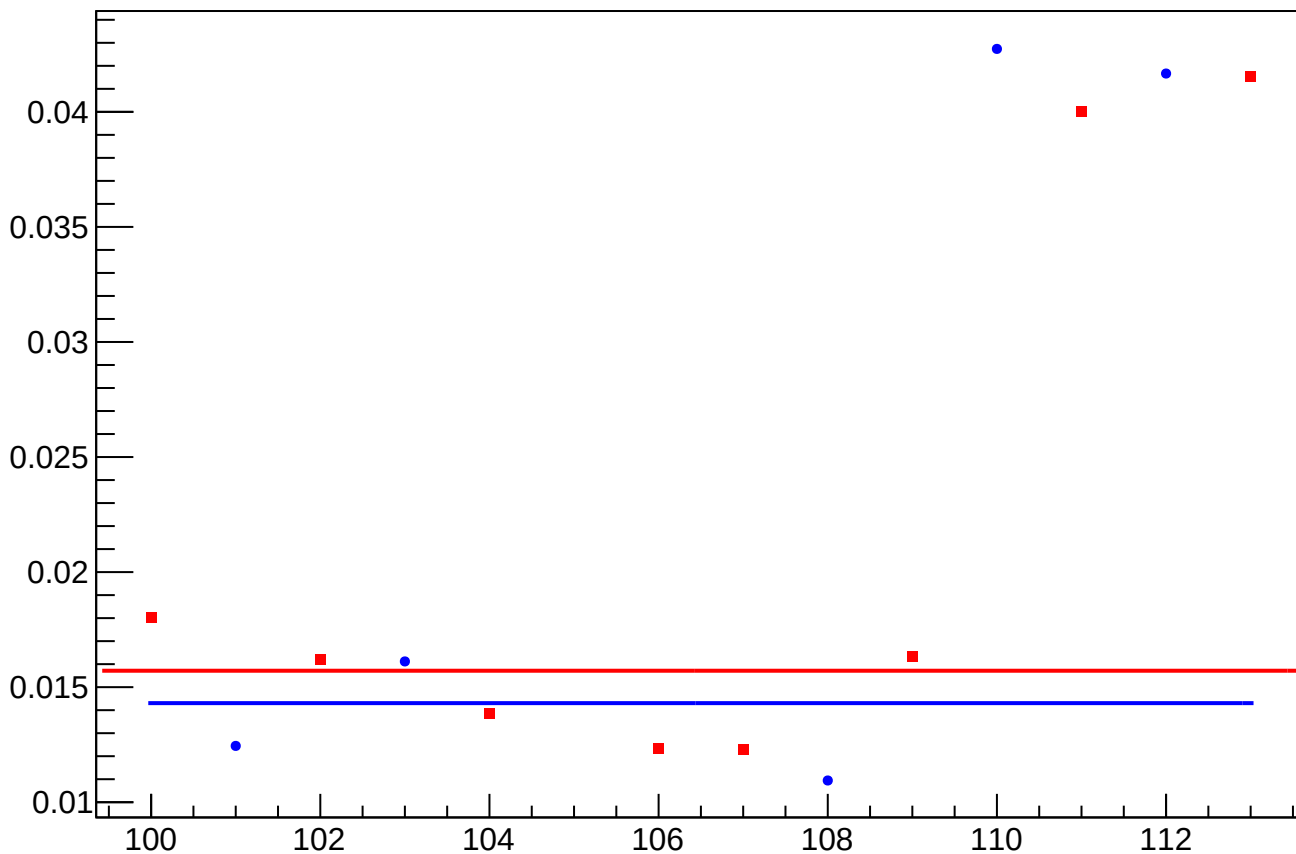
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.253+/-0.000  $\chi^2/\text{NDF}$ : 49047393.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eY\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 786878.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 743516.5/7

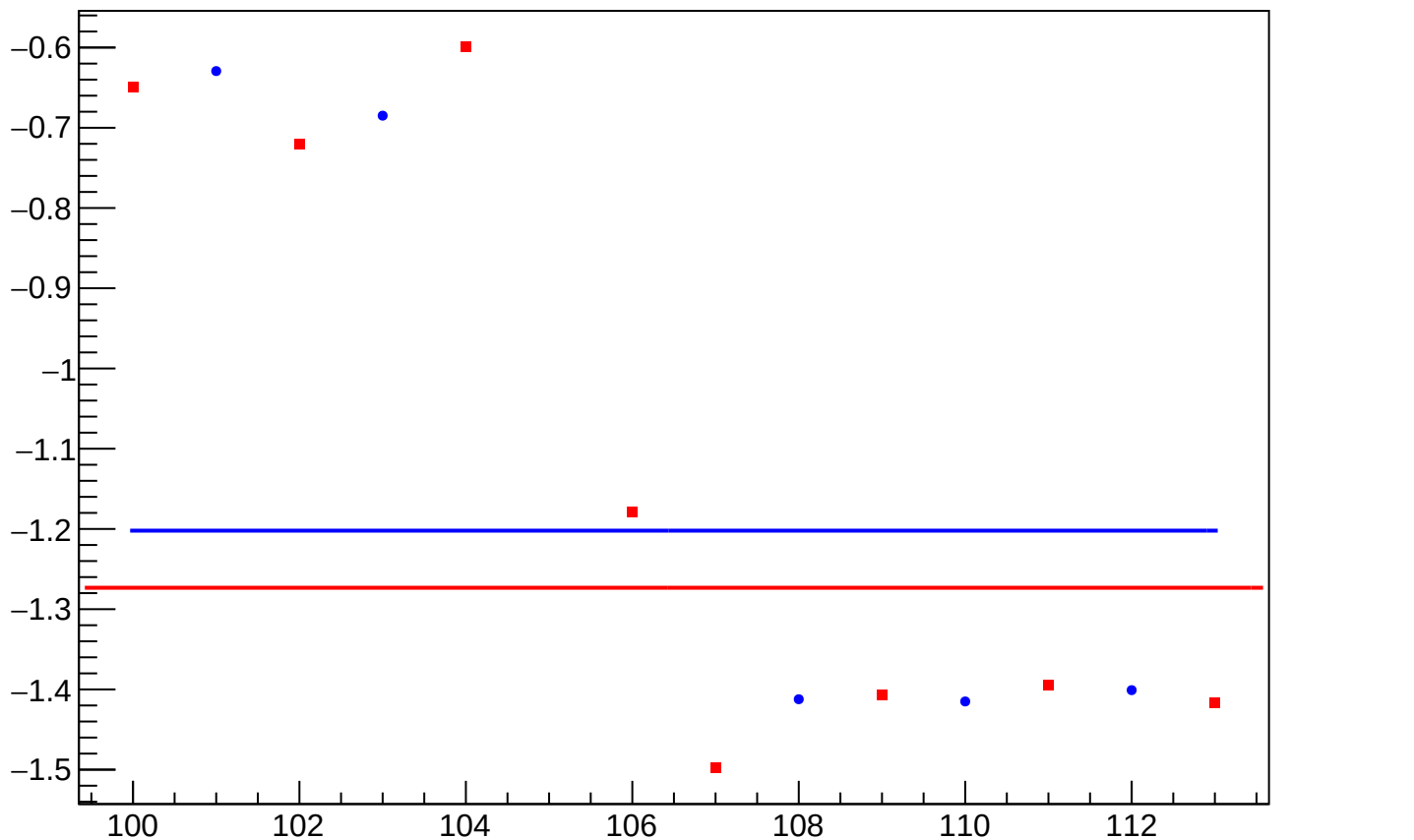
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1549457.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acX\_mean vs Slug



Right In: -1.202+/-0.000  $\chi^2/\text{NDF}$ : 252208552.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -1.273+/-0.000  $\chi^2/\text{NDF}$ : 226787945.4/7

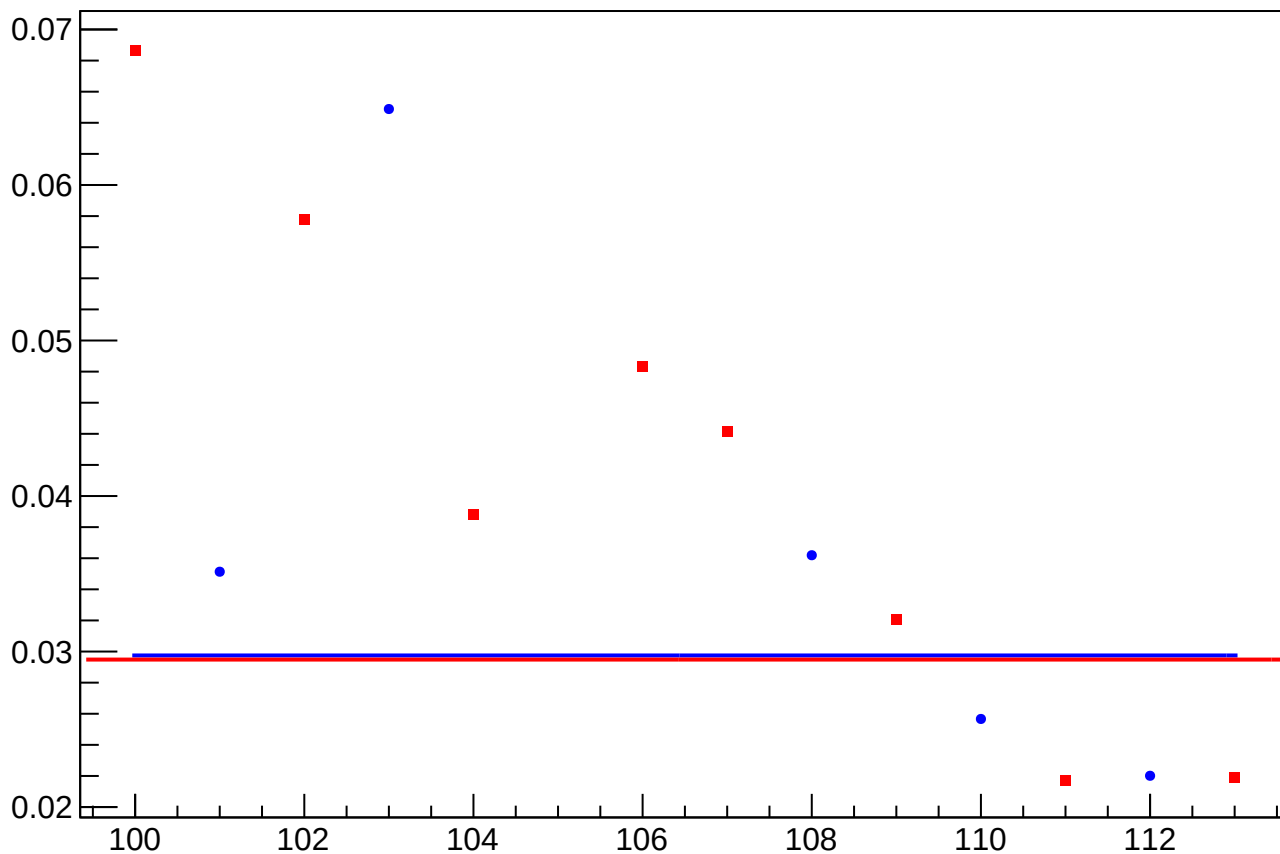
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.242+/-0.000  $\chi^2/\text{NDF}$ : 485191325.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acX\_rms vs Slug



Right In: 0.030+/-0.000  $\chi^2/\text{NDF}$ : 504297.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.029+/-0.000  $\chi^2/\text{NDF}$ : 682489.7/7

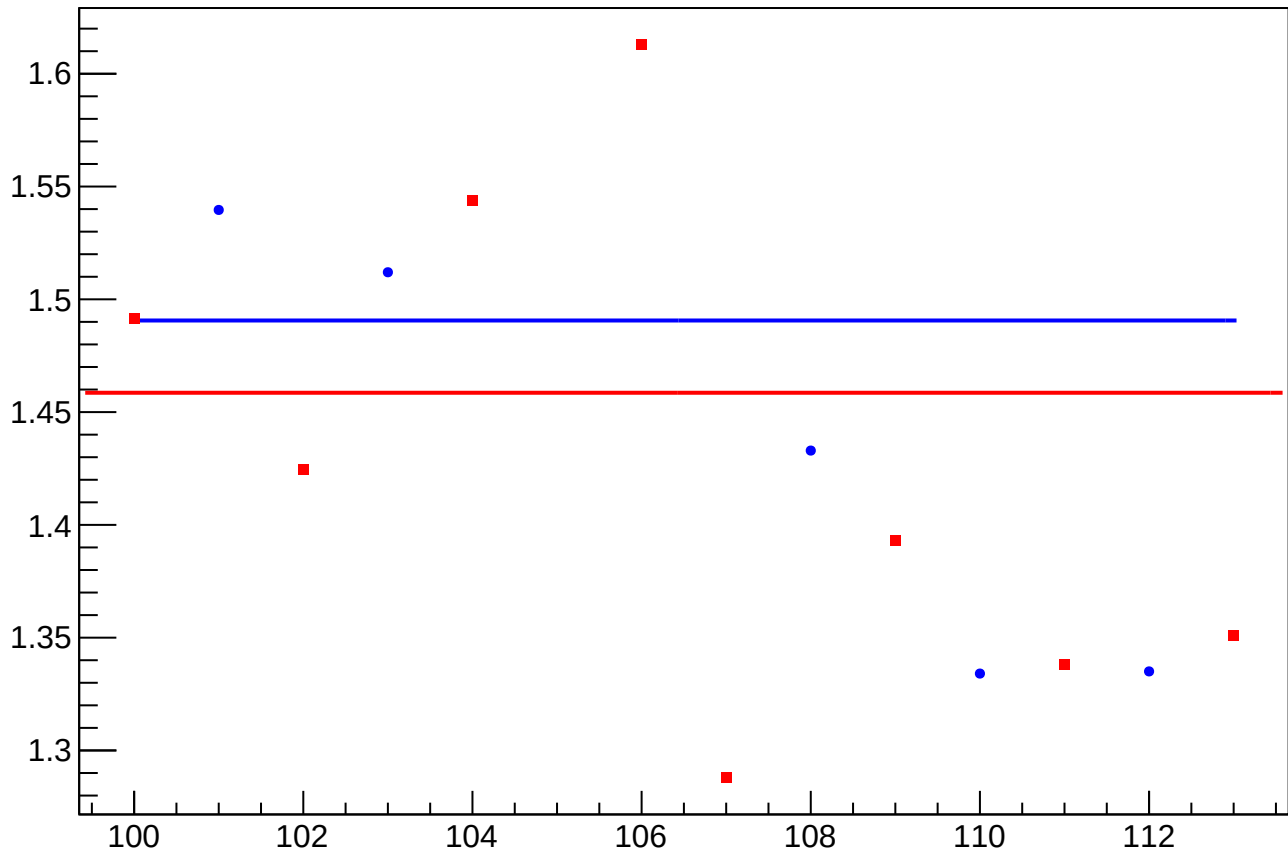
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.030+/-0.000  $\chi^2/\text{NDF}$ : 1186957.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acY\_mean vs Slug



Right In: 1.491+/-0.000  $\chi^2/\text{NDF}$ : 20822993.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.459+/-0.000  $\chi^2/\text{NDF}$ : 74044103.2/7

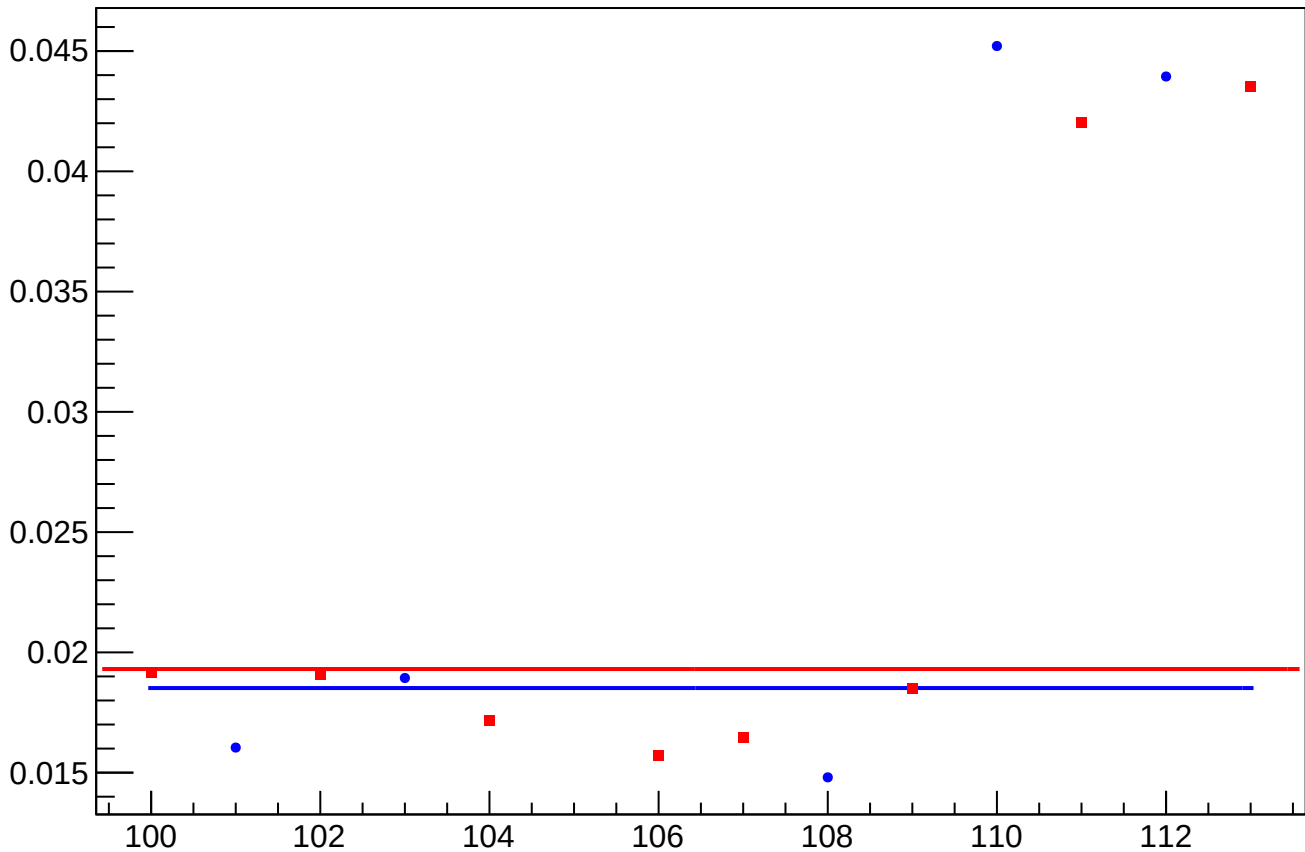
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.473+/-0.000  $\chi^2/\text{NDF}$ : 98090000.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acY\_rms vs Slug



Right In: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 608841.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 578380.5/7

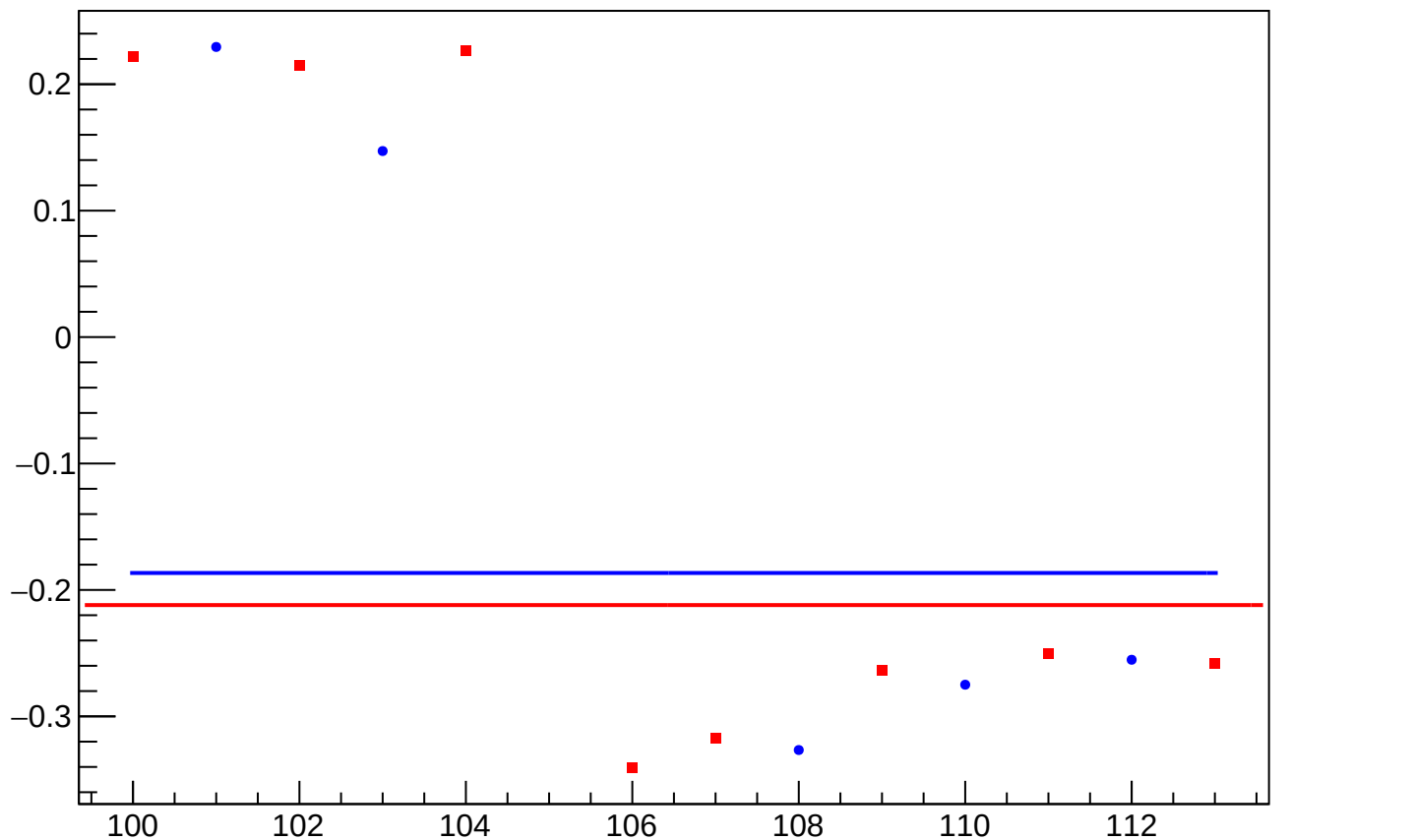
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 1191146.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4ecX\_mean vs Slug



Right In: -0.187+/-0.000  $\chi^2/\text{NDF}$ : 98501846.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.212+/-0.000  $\chi^2/\text{NDF}$ : 86363945.2/7

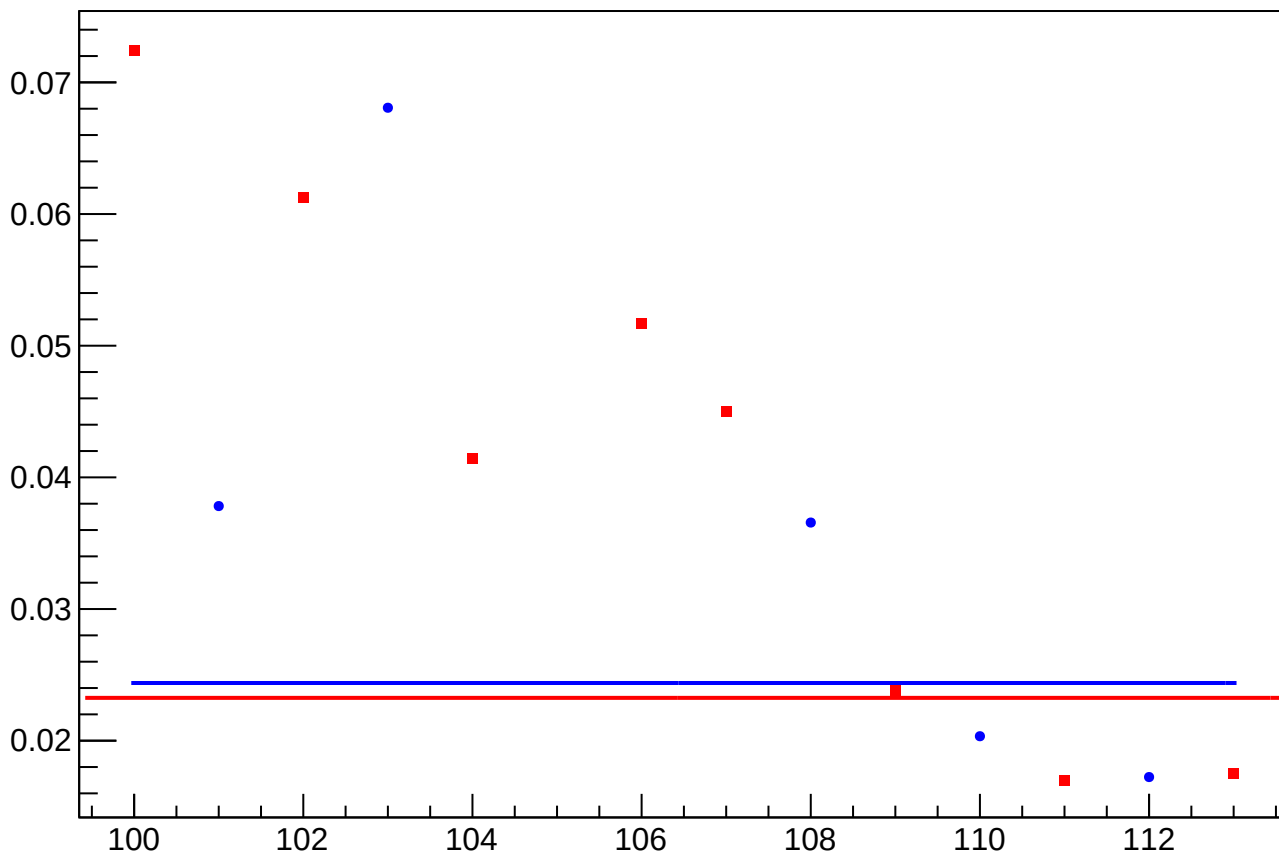
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.201+/-0.000  $\chi^2/\text{NDF}$ : 185977757.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4ecX\_rms vs Slug



Right In: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 858880.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 1098605.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

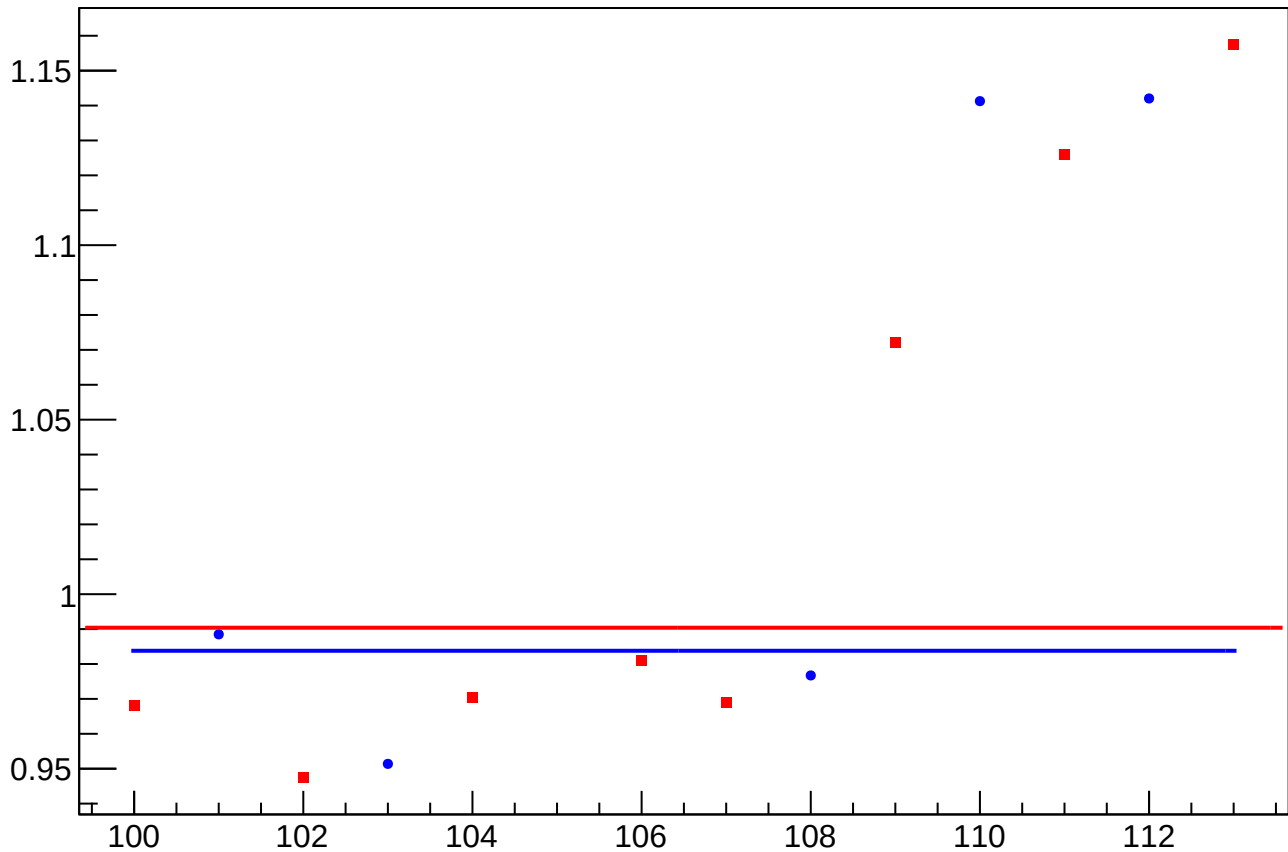
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 1961879.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm4ecY\_mean vs Slug



Right In: 0.984 $\pm$ 0.000  $\chi^2$ /NDF: 14007015.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.990 $\pm$ 0.000  $\chi^2$ /NDF: 27907515.9/7

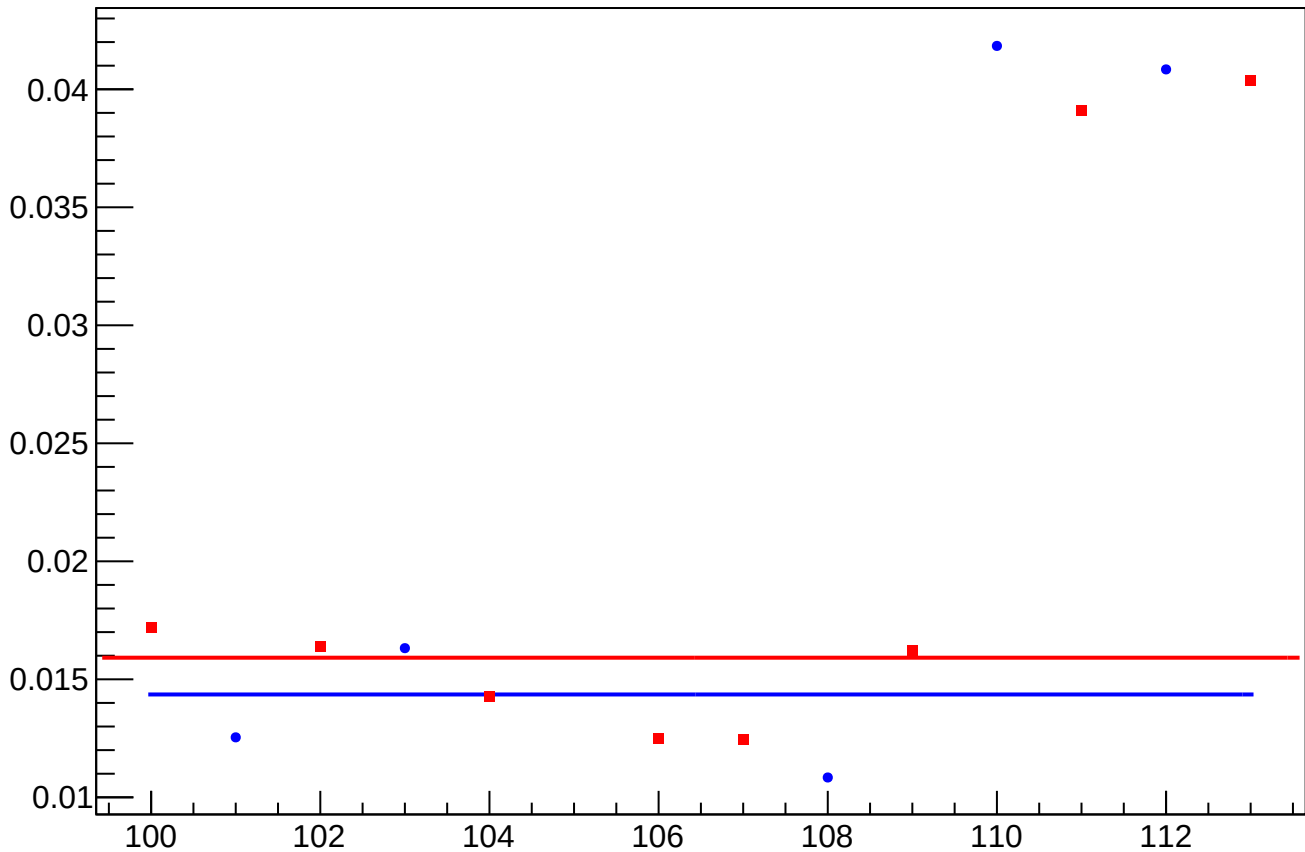
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.987 $\pm$ 0.000  $\chi^2$ /NDF: 42122034.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm4ecY\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 778392.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 706771.0/7

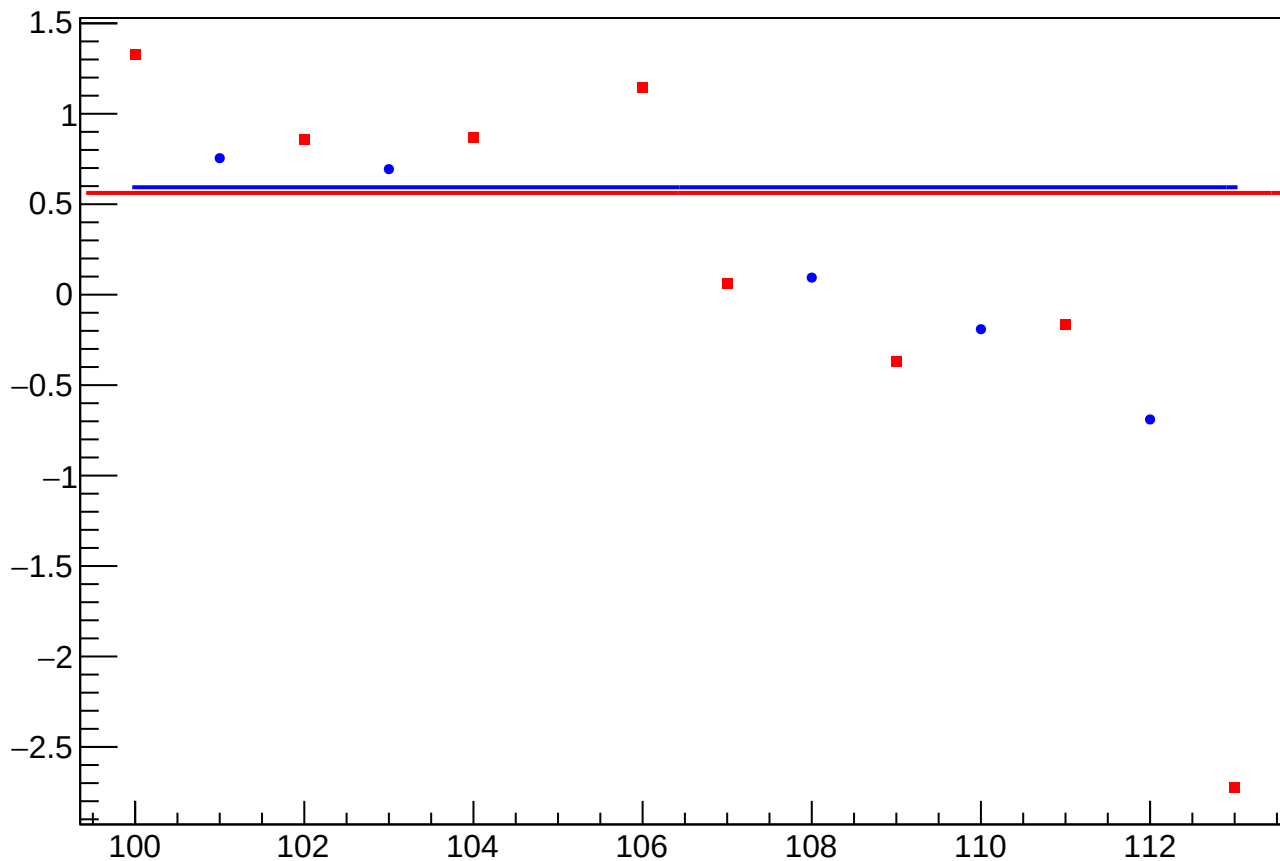
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1508261.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1X\_mean vs Slug



Right In: 0.594+/-0.000  $\chi^2/\text{NDF}$ : 126471173.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.562+/-0.000  $\chi^2/\text{NDF}$ : 799281016.9/7

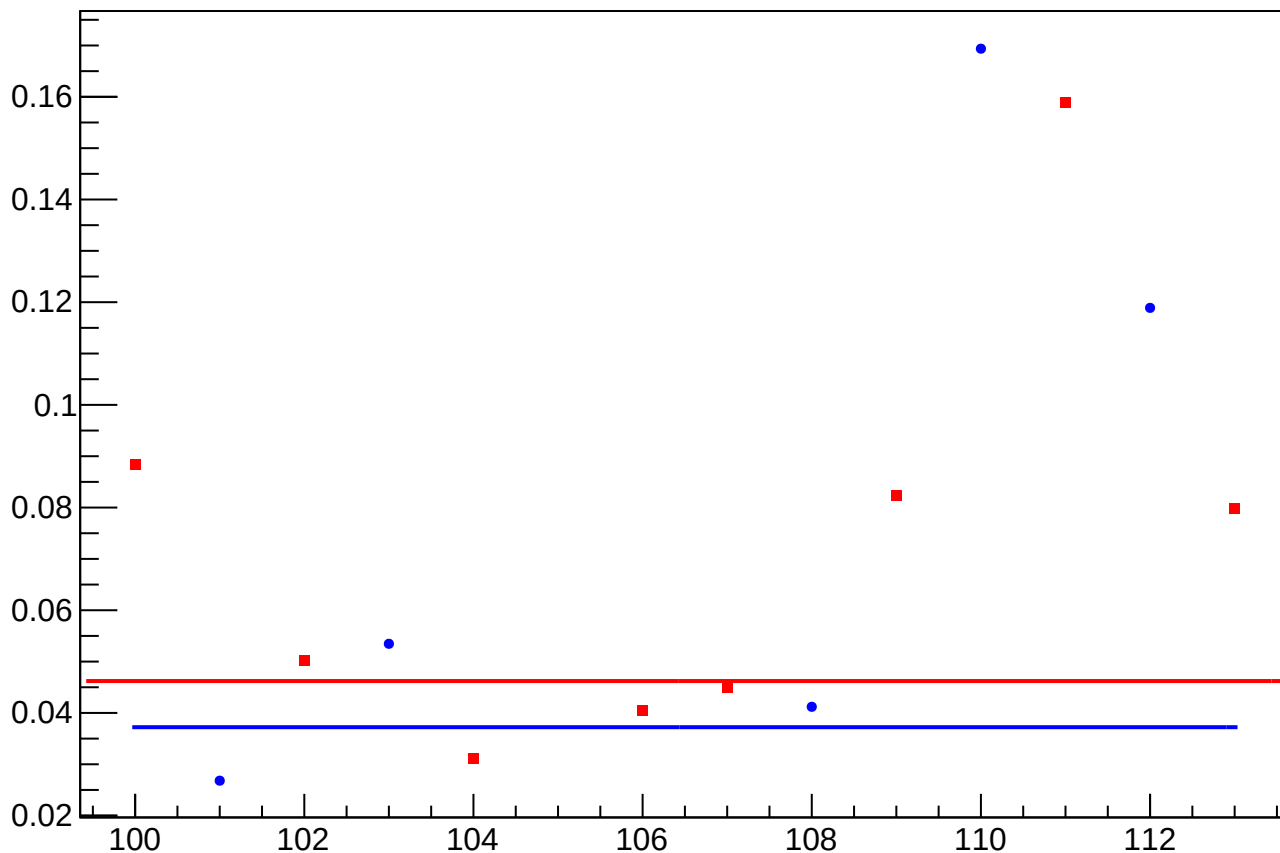
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.579+/-0.000  $\chi^2/\text{NDF}$ : 926283185.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1X\_rms vs Slug



Right In: 0.037+/-0.000  $\chi^2/\text{NDF}$ : 1114650.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.046+/-0.000  $\chi^2/\text{NDF}$ : 950228.8/7

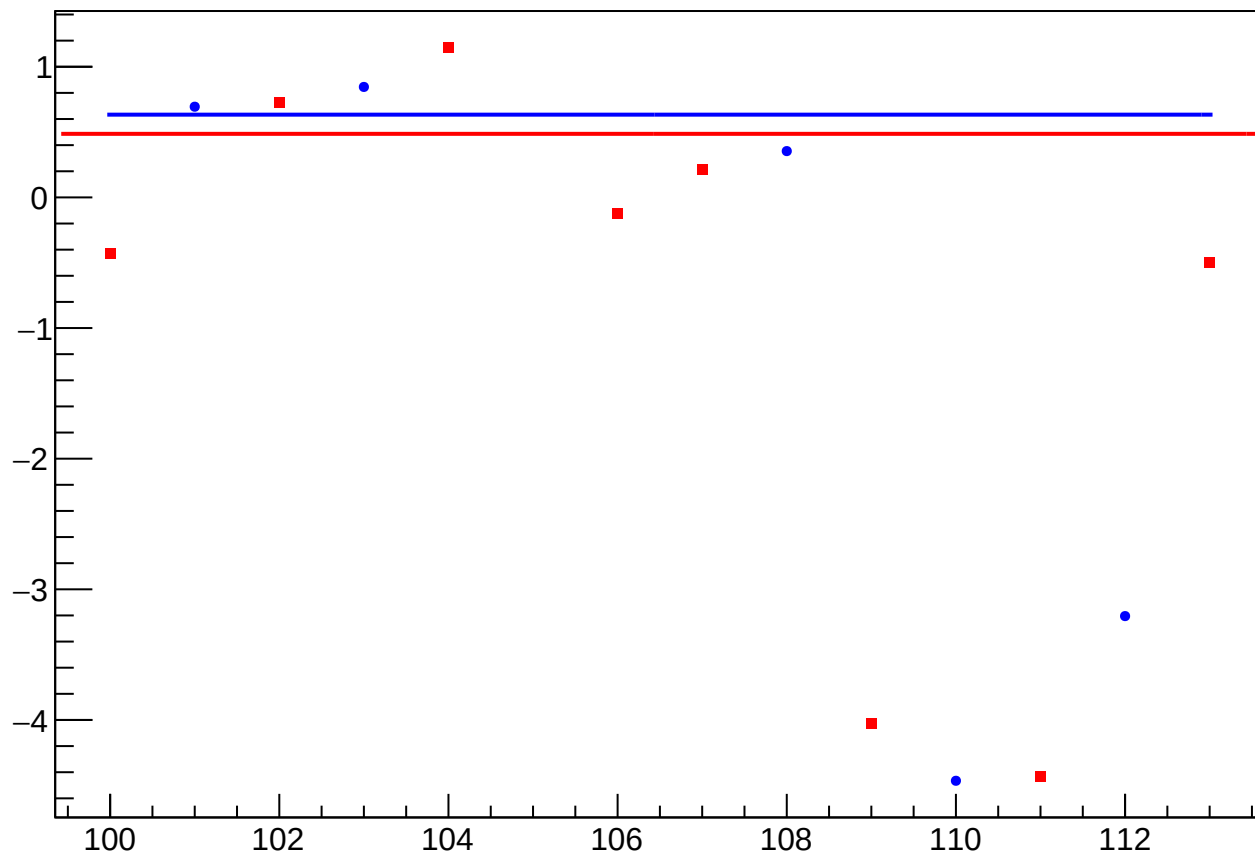
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.041+/-0.000  $\chi^2/\text{NDF}$ : 2152661.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1Y\_mean vs Slug



Right In: 0.633+/-0.000  $\chi^2/\text{NDF}$ : 1240395991.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.487+/-0.000  $\chi^2/\text{NDF}$ : 3644923339.2/7

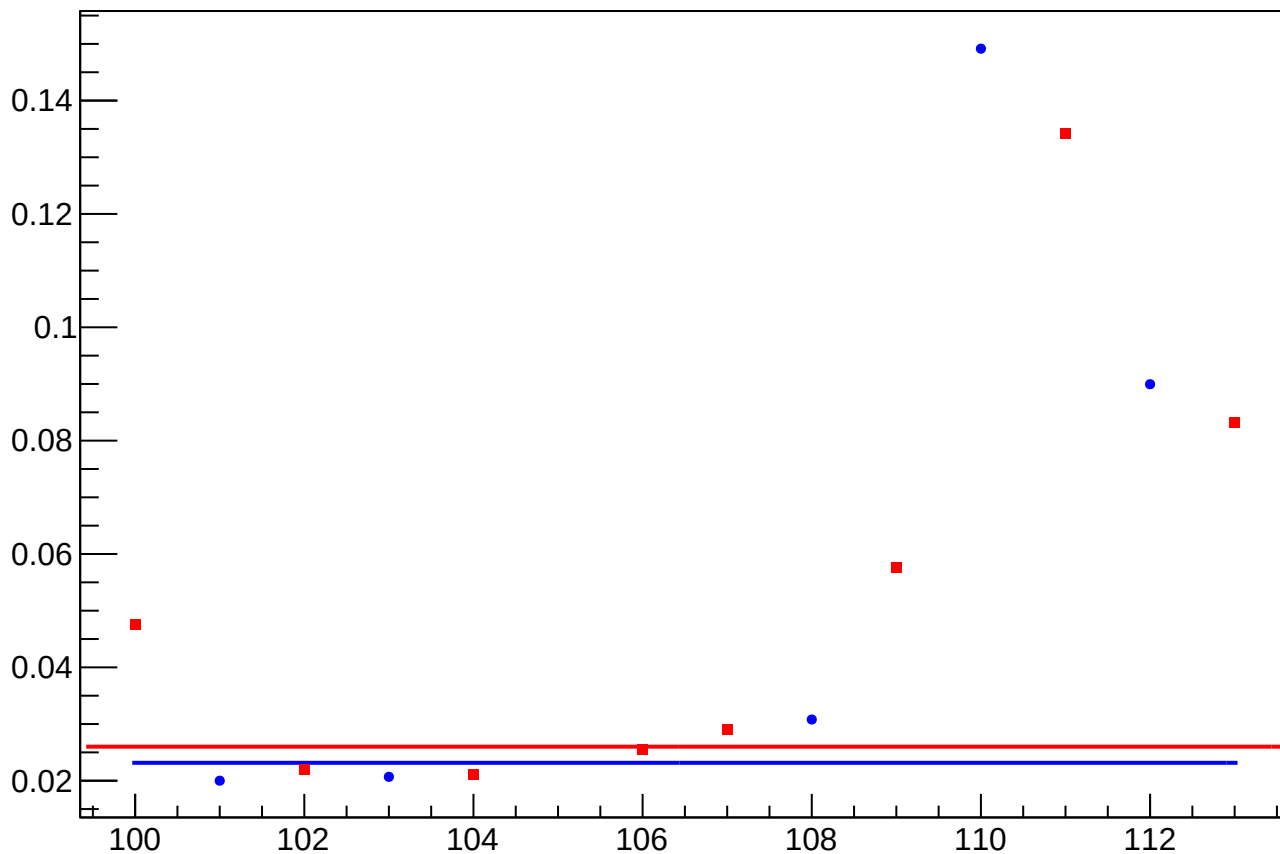
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.560+/-0.000  $\chi^2/\text{NDF}$ : 4918796722.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1Y\_rms vs Slug



Right In: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 1041226.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 1273435.6/7

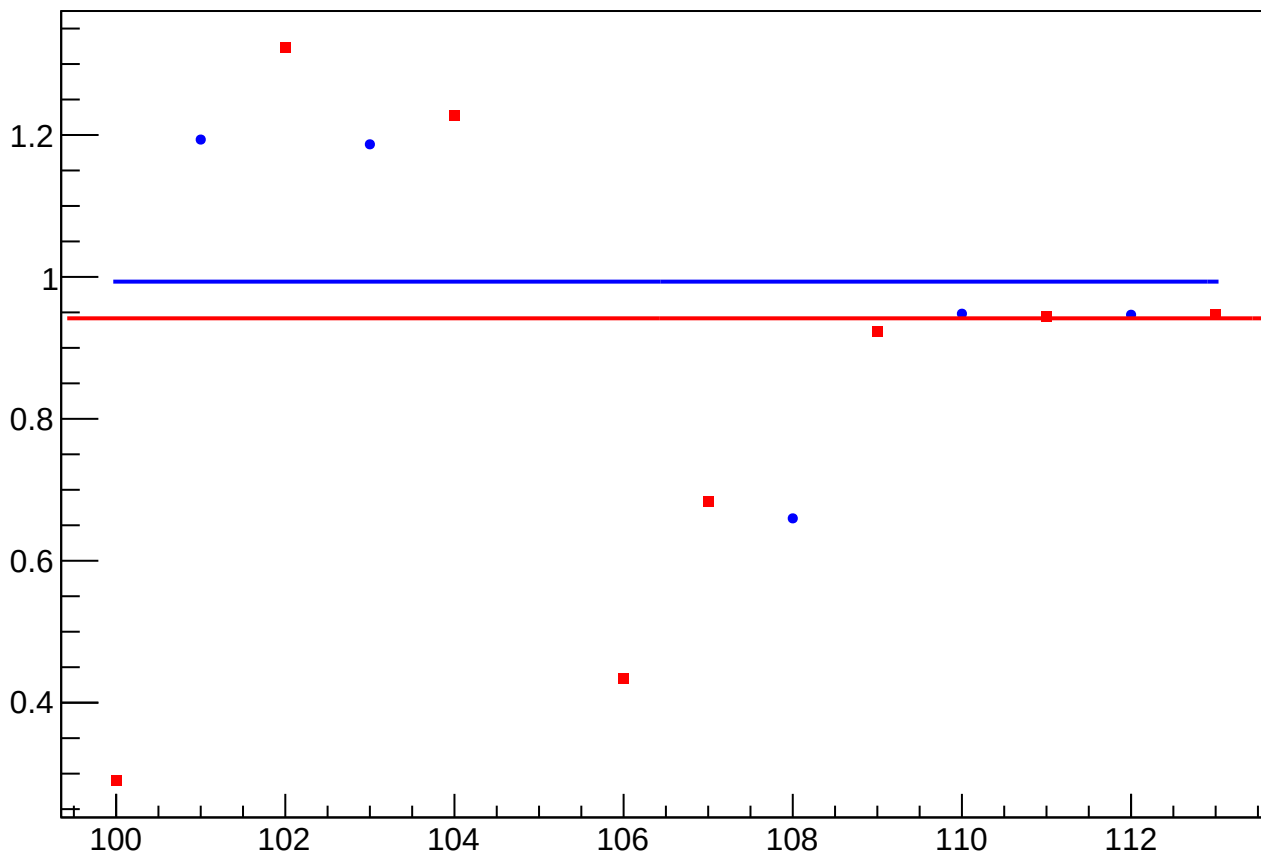
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.025+/-0.000  $\chi^2/\text{NDF}$ : 2339799.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm11X\_mean vs Slug



Right In: 0.993 $\pm$ 0.000  $\chi^2$ /NDF: 221853381.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.942 $\pm$ 0.000  $\chi^2$ /NDF: 440425028.0/7

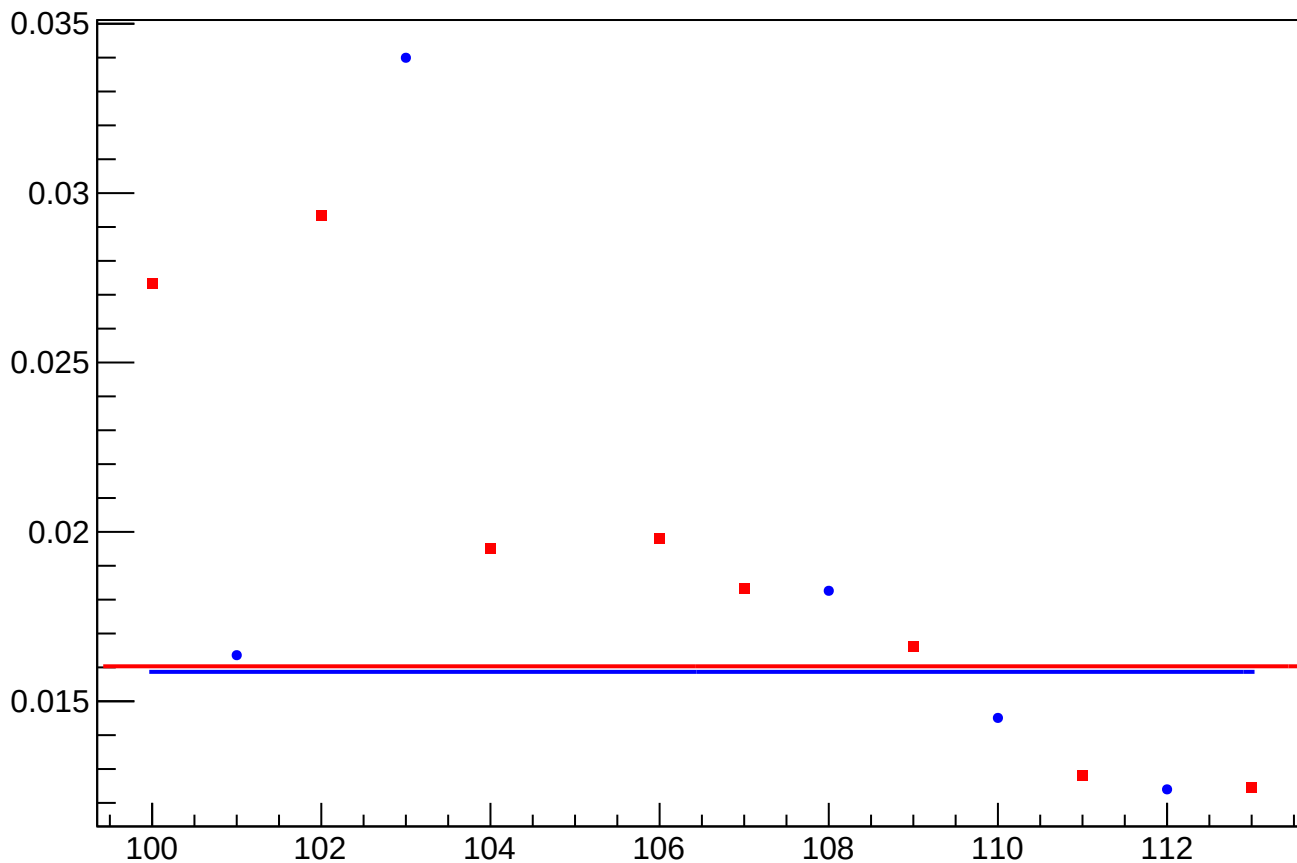
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.965 $\pm$ 0.000  $\chi^2$ /NDF: 674312753.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm11X\_rms vs Slug



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 409049.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 431893.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

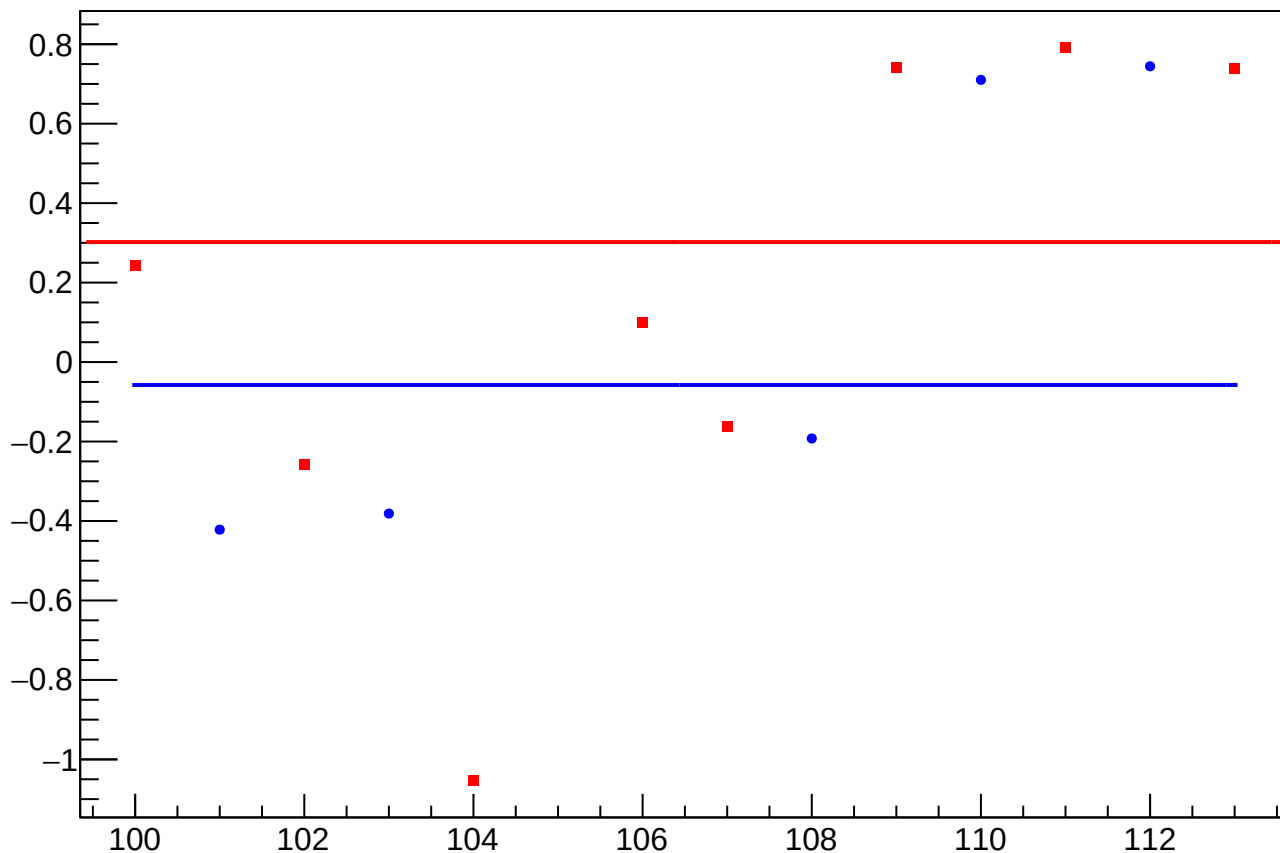
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 841185.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm11Y\_mean vs Slug



Right In: -0.058+/-0.000  $\chi^2/\text{NDF}$ : 1632714492.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.302+/-0.000  $\chi^2/\text{NDF}$ : 5910980814.4/7

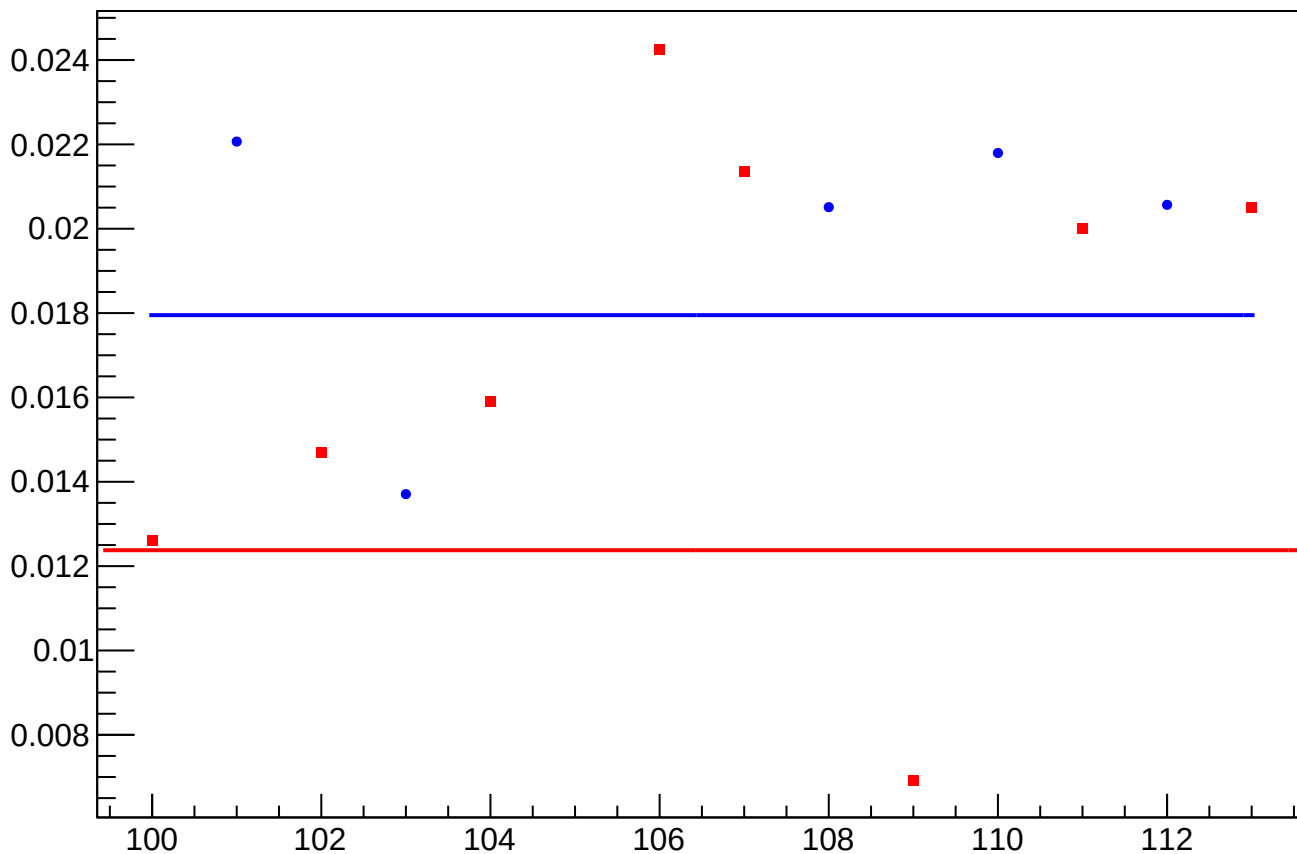
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.191+/-0.000  $\chi^2/\text{NDF}$ : 8136561829.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm11Y\_rms vs Slug



Right In: 0.018 $\pm$ 0.000  $\chi^2$ /NDF: 191269.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 950908.7/7

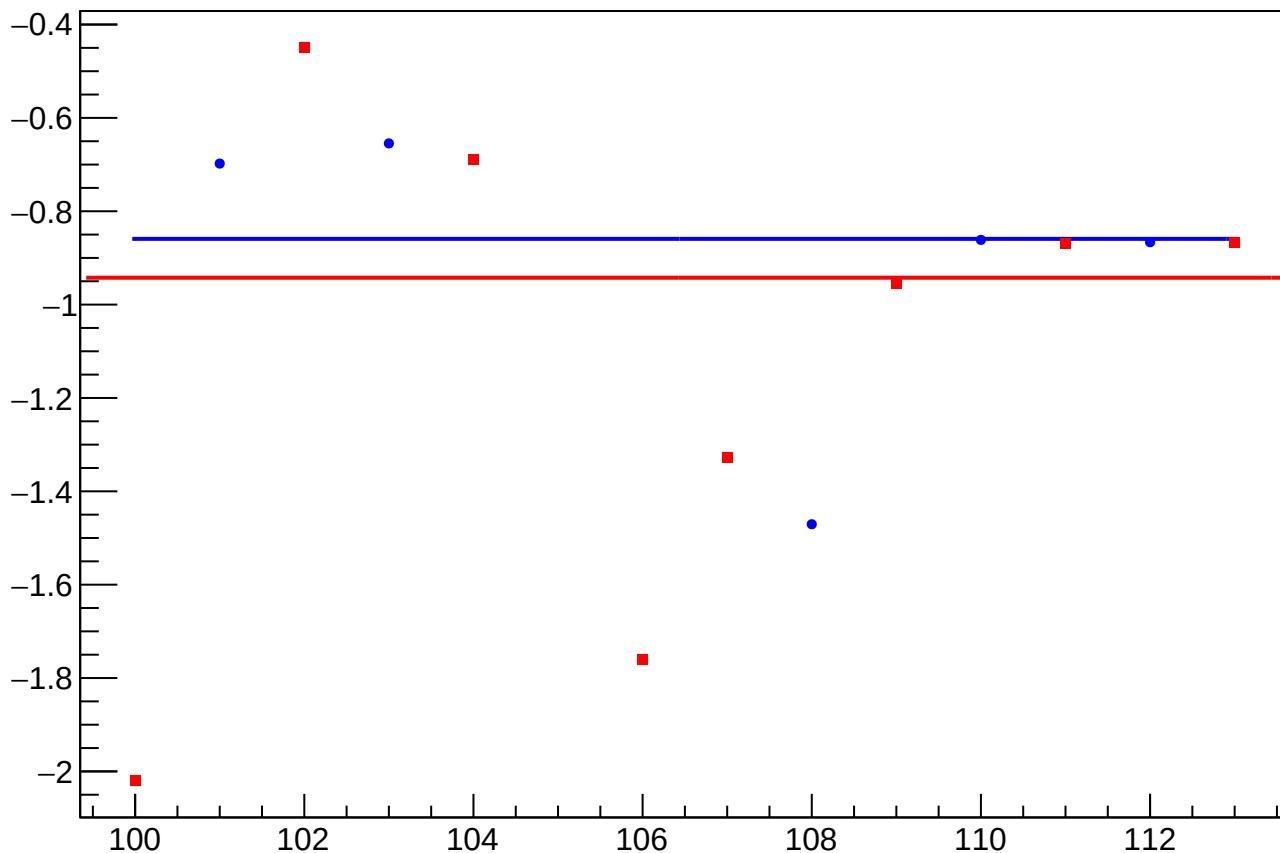
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 1426960.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm12X\_mean vs Slug



Right In: -0.859+/-0.000  $\chi^2/\text{NDF}$ : 89916599.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.942+/-0.000  $\chi^2/\text{NDF}$ : 223778595.3/7

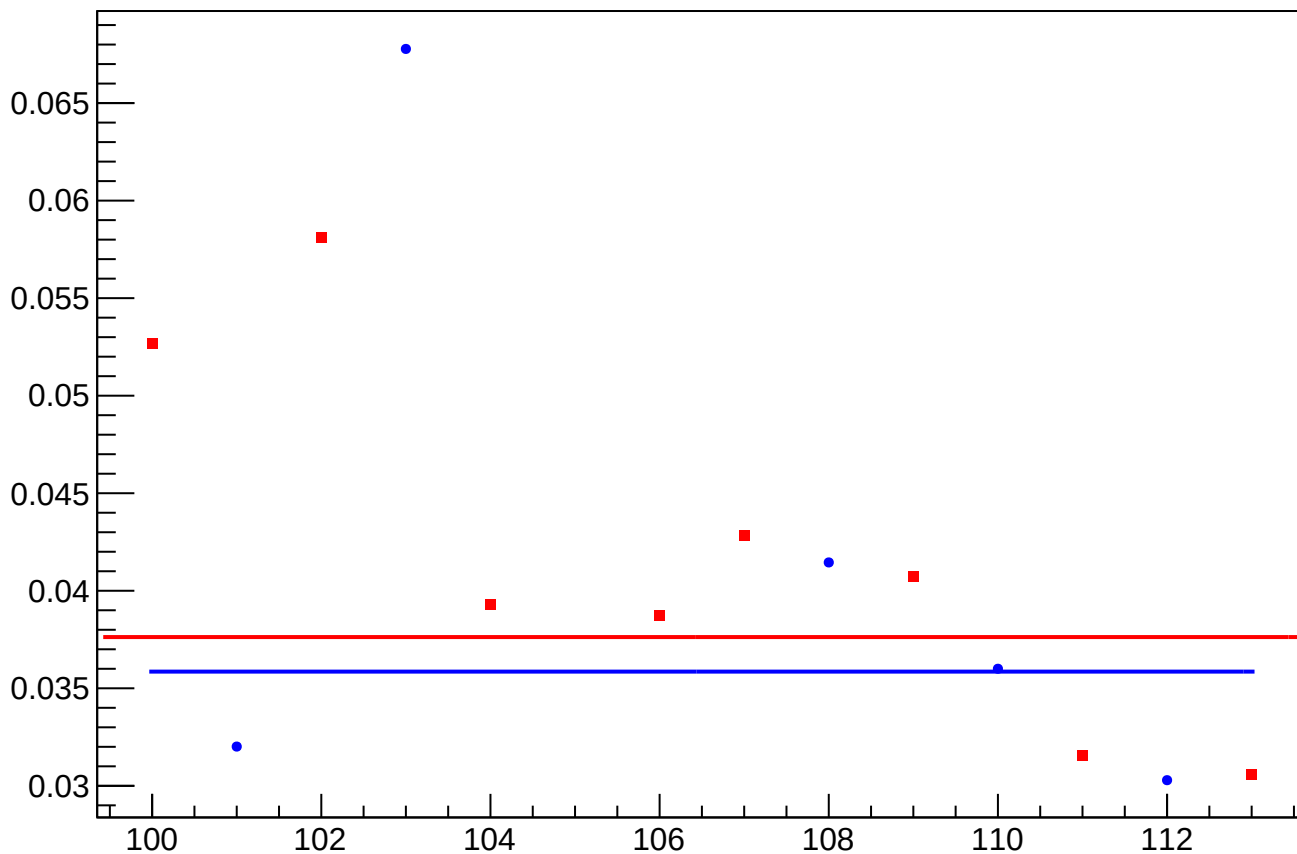
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.904+/-0.000  $\chi^2/\text{NDF}$ : 319725629.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12X\_rms vs Slug



Right In: 0.036+/-0.000  $\chi^2/\text{NDF}$ : 304894.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.038+/-0.000  $\chi^2/\text{NDF}$ : 236877.6/7

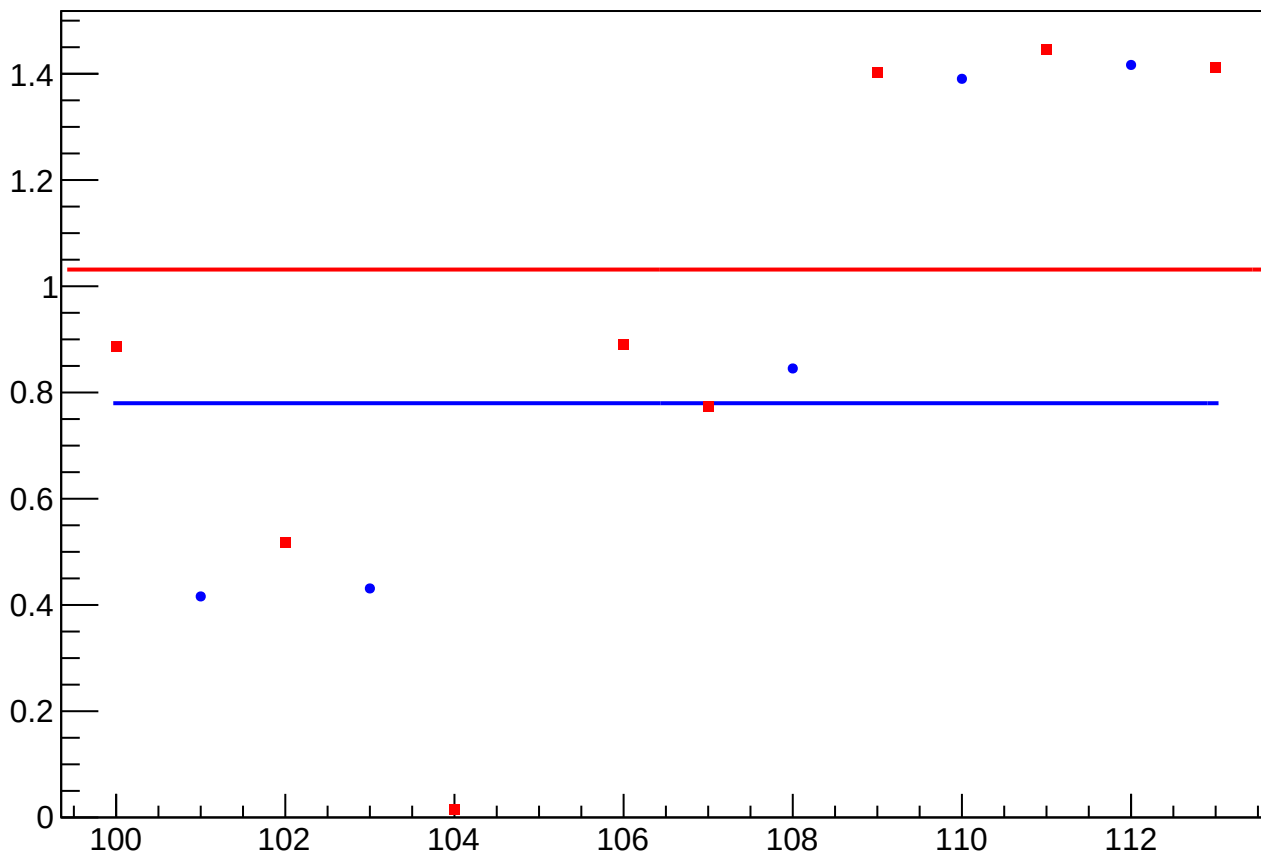
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.037+/-0.000  $\chi^2/\text{NDF}$ : 547229.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12Y\_mean vs Slug



Right In: 0.780+/-0.000  $\chi^2/\text{NDF}$ : 2638312377.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.031+/-0.000  $\chi^2/\text{NDF}$ : 6754413226.9/7

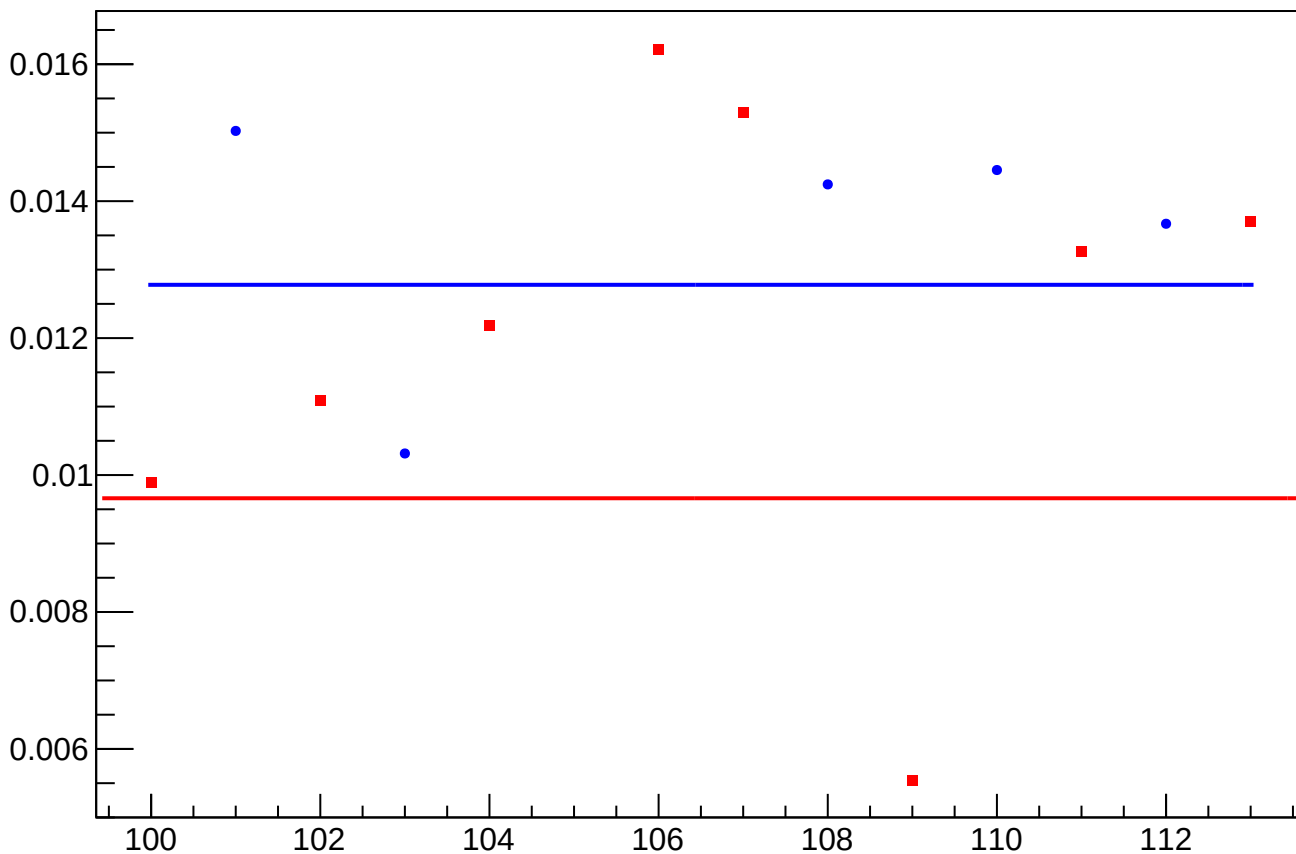
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.946+/-0.000  $\chi^2/\text{NDF}$ : 9947548364.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12Y\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 107646.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 700876.0/7

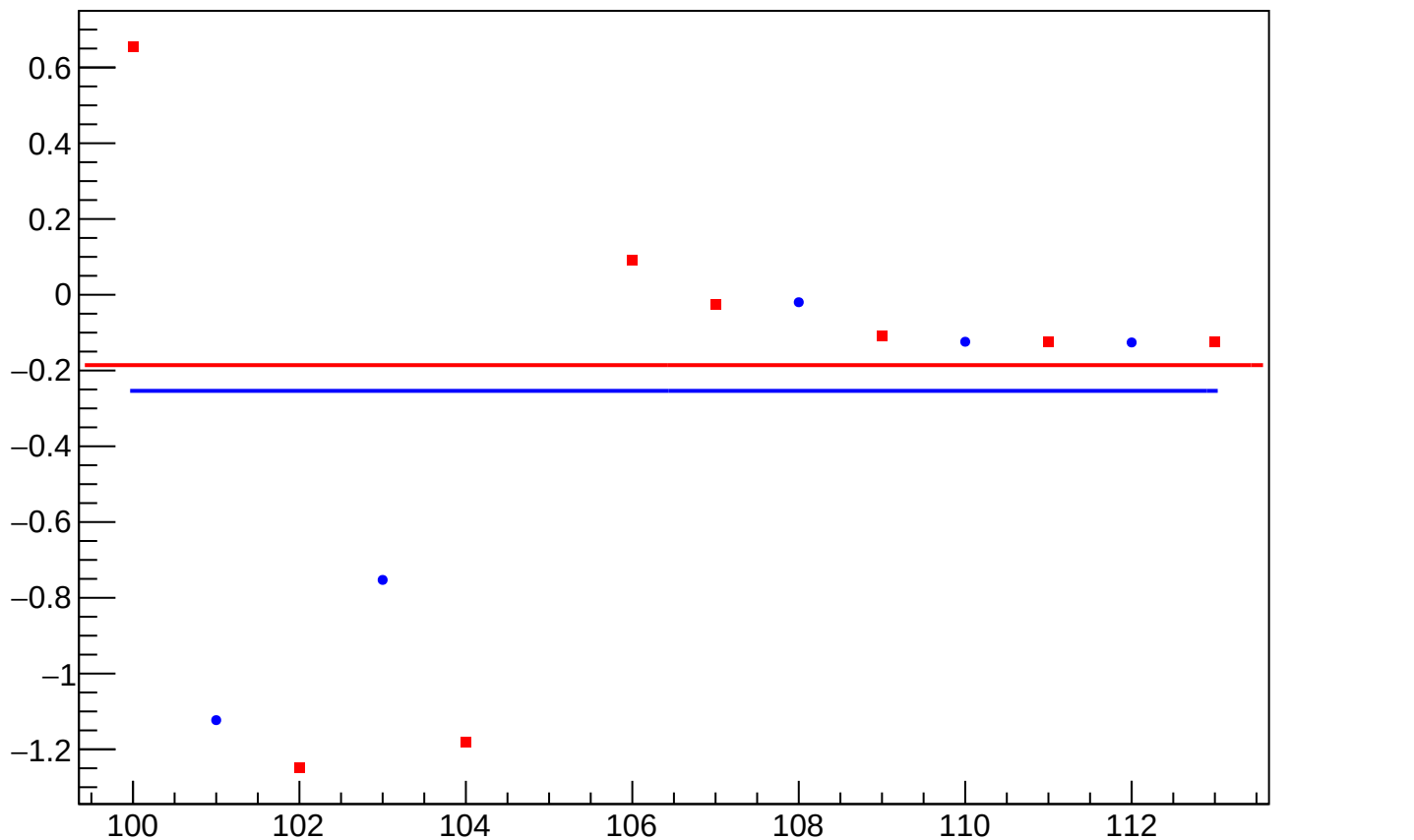
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 978826.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16X\_mean vs Slug



Right In: -0.254+/-0.000  $\chi^2/\text{NDF}$ : 527158167.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.186+/-0.000  $\chi^2/\text{NDF}$ : 496592163.3/7

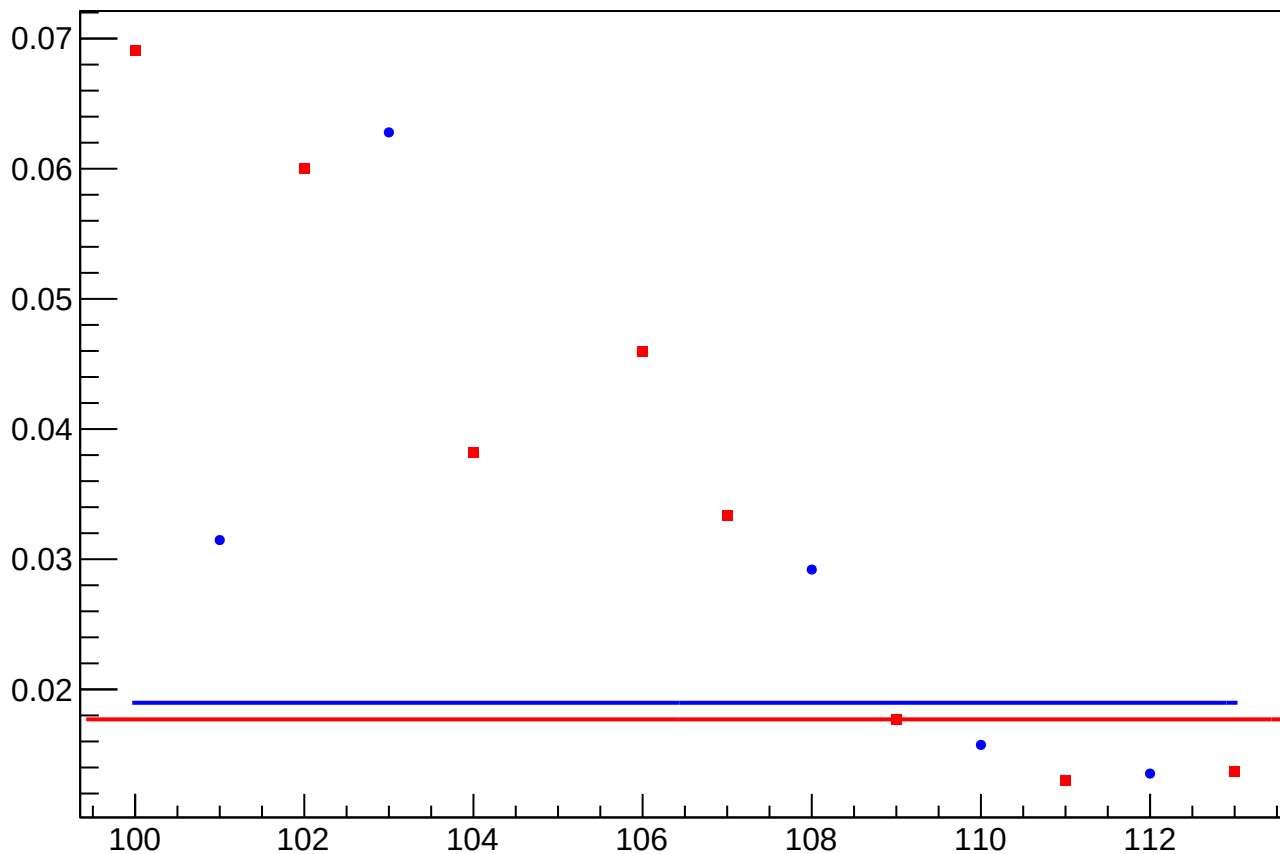
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.214+/-0.000  $\chi^2/\text{NDF}$ : 1036120167.3/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16X\_rms vs Slug



Right In: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 940301.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 1301392.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

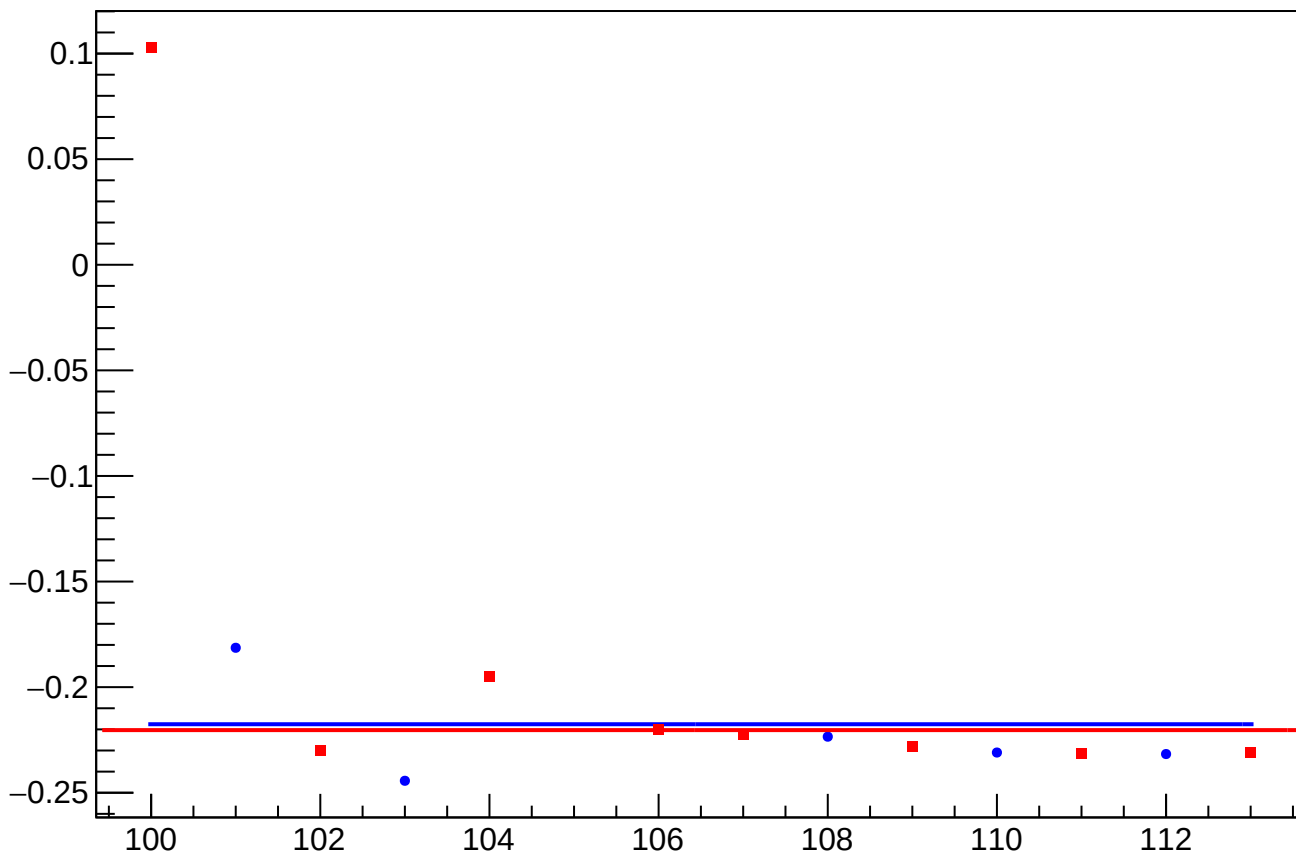
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 2250430.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm16Y\_mean vs Slug



Right In: -0.218+/-0.000  $\chi^2/\text{NDF}$ : 47501425.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.220+/-0.000  $\chi^2/\text{NDF}$ : 155640899.6/7

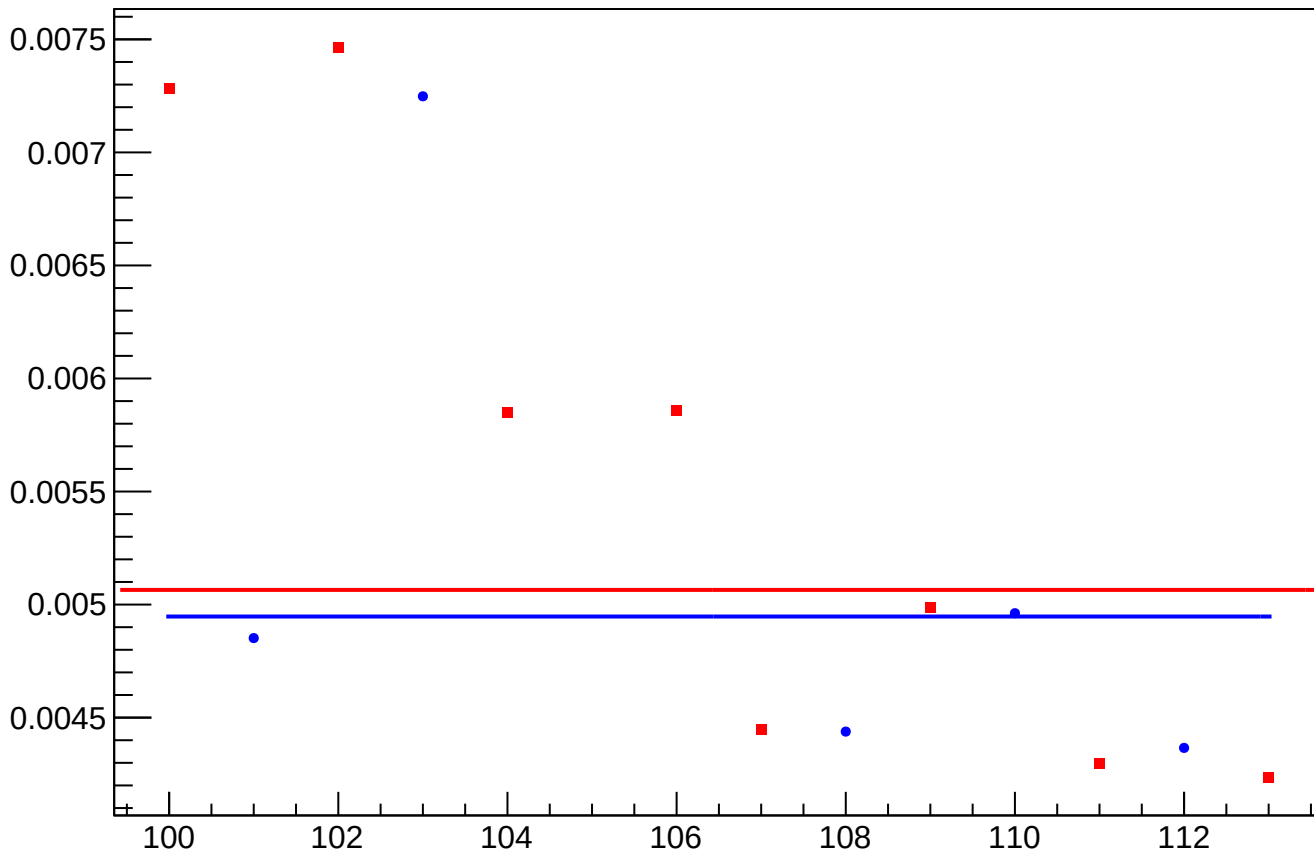
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.219+/-0.000  $\chi^2/\text{NDF}$ : 203523210.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 138399.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 231625.2/7

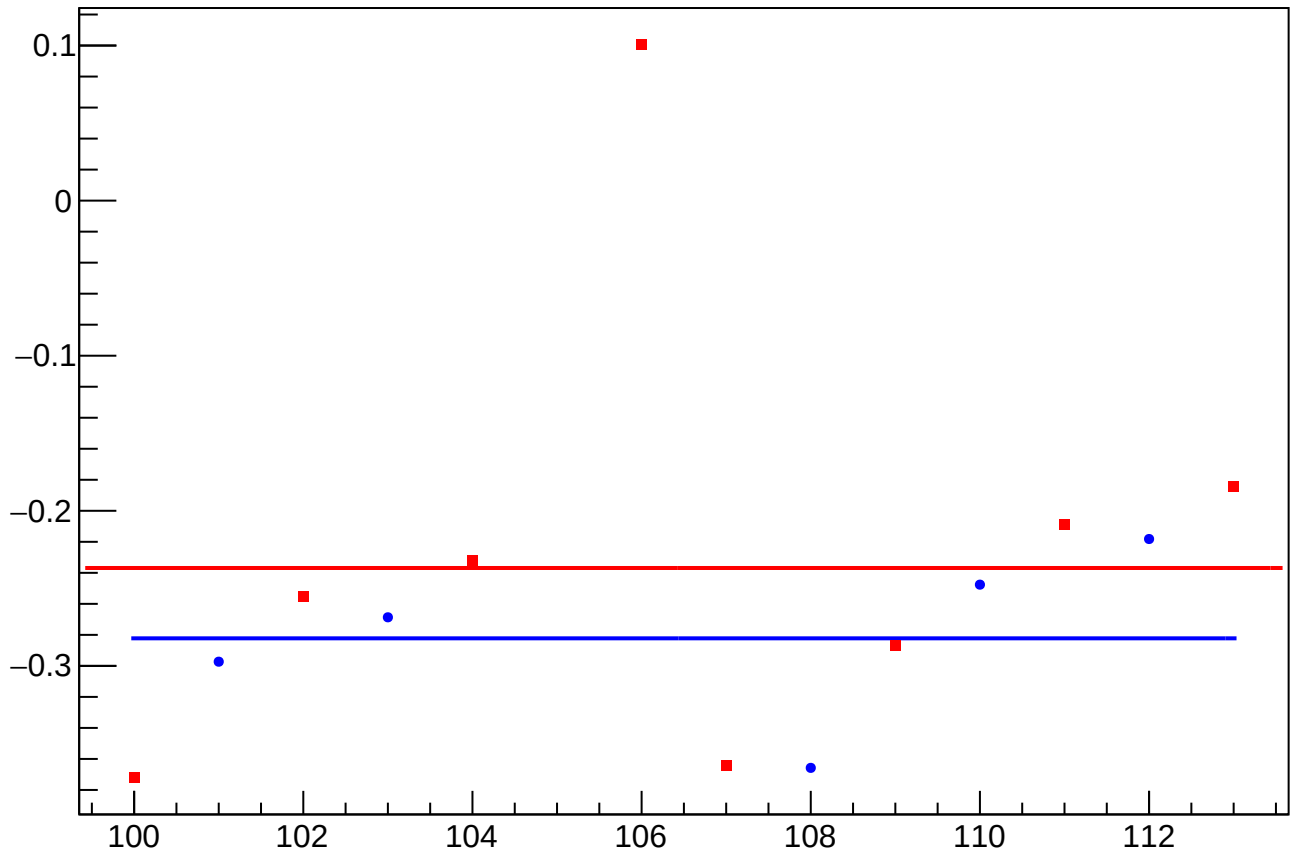
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 371387.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02X\_mean vs Slug



Right In: -0.282+/-0.000  $\chi^2/\text{NDF}$ : 132698675.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.237+/-0.000  $\chi^2/\text{NDF}$ : 557192129.0/7

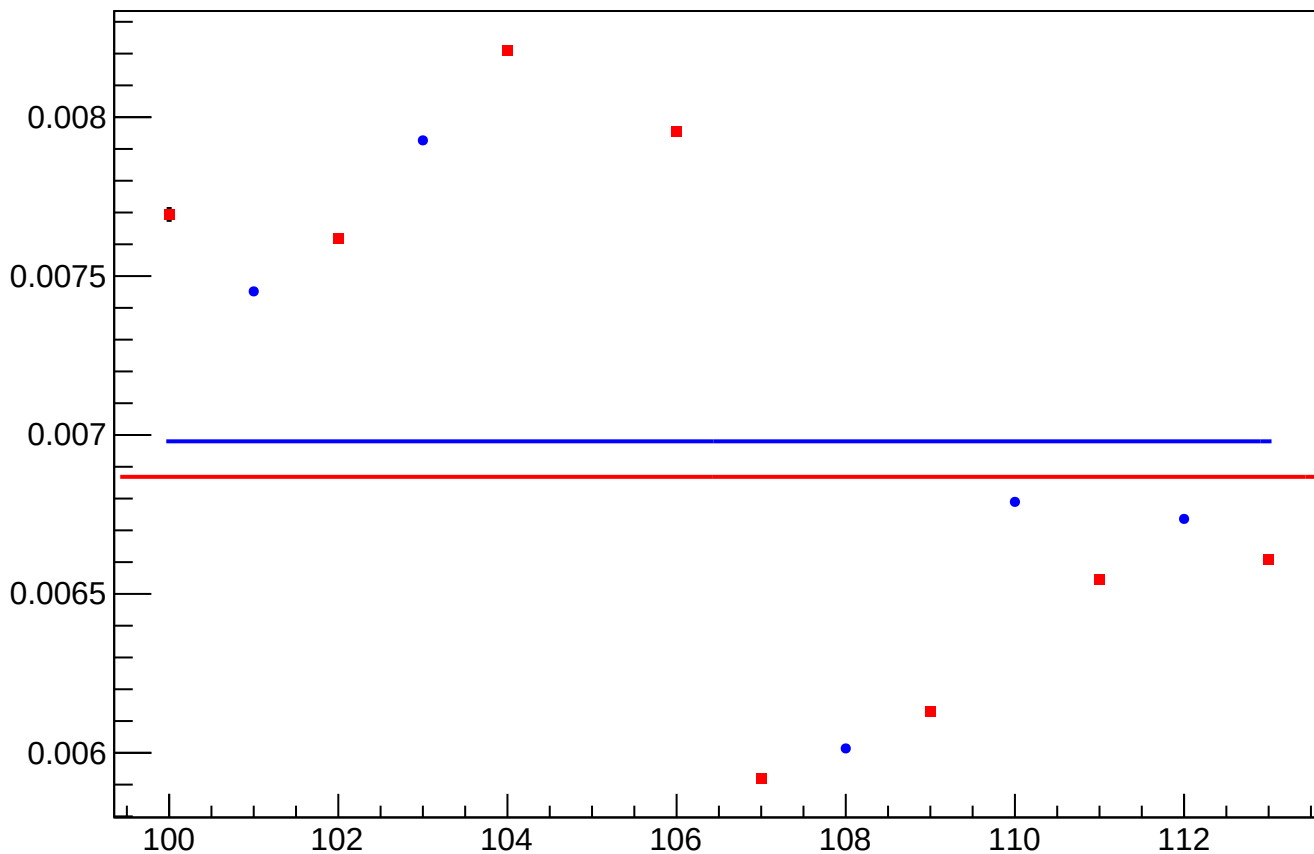
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.257+/-0.000  $\chi^2/\text{NDF}$ : 748157470.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 44208.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 79548.2/7

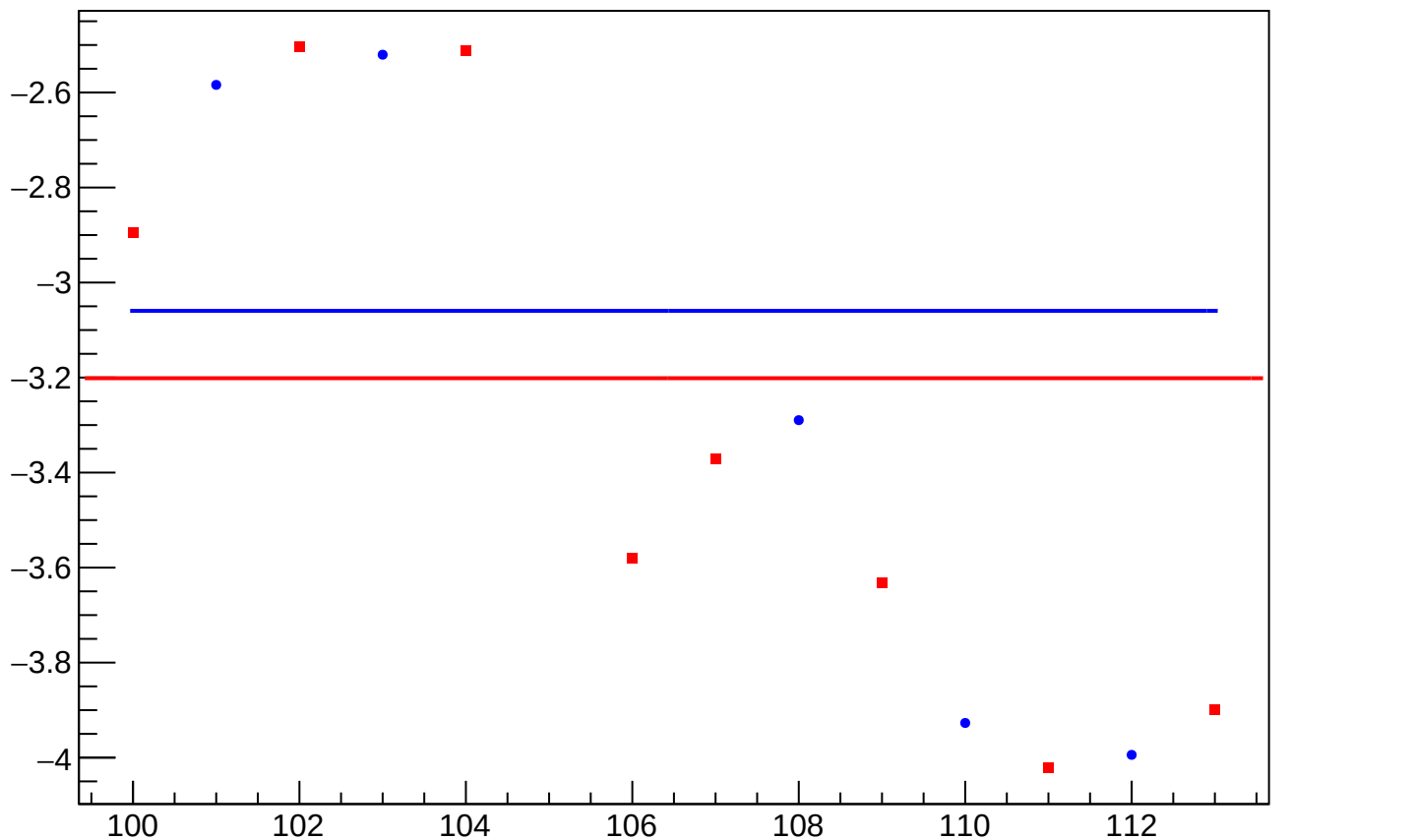
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 124463.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02Y\_mean vs Slug



Right In: -3.060+/-0.000  $\chi^2/\text{NDF}$ : 16559295461.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.201+/-0.000  $\chi^2/\text{NDF}$ : 20036557255.9/7

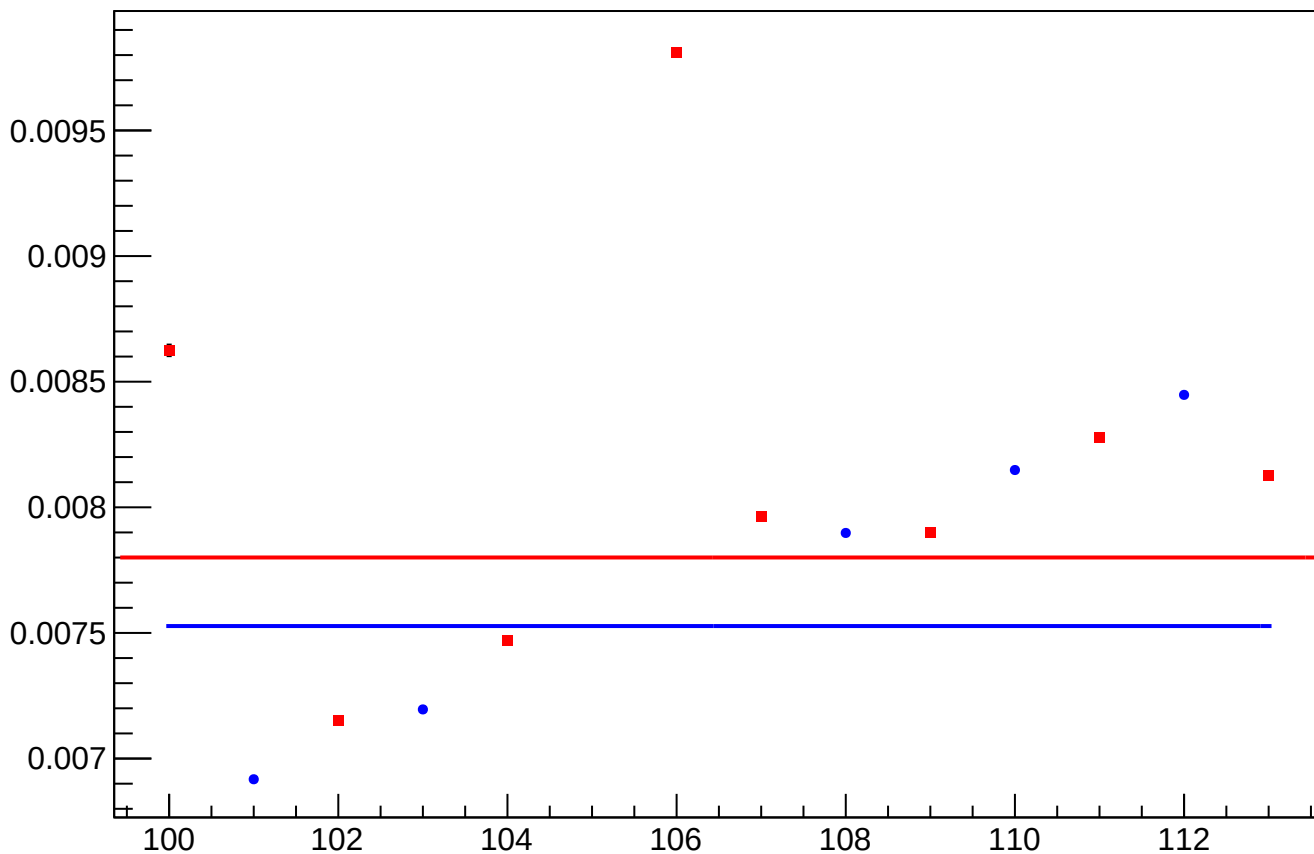
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.136+/-0.000  $\chi^2/\text{NDF}$ : 37058161462.8/14

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02Y\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 29660.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 31827.2/7

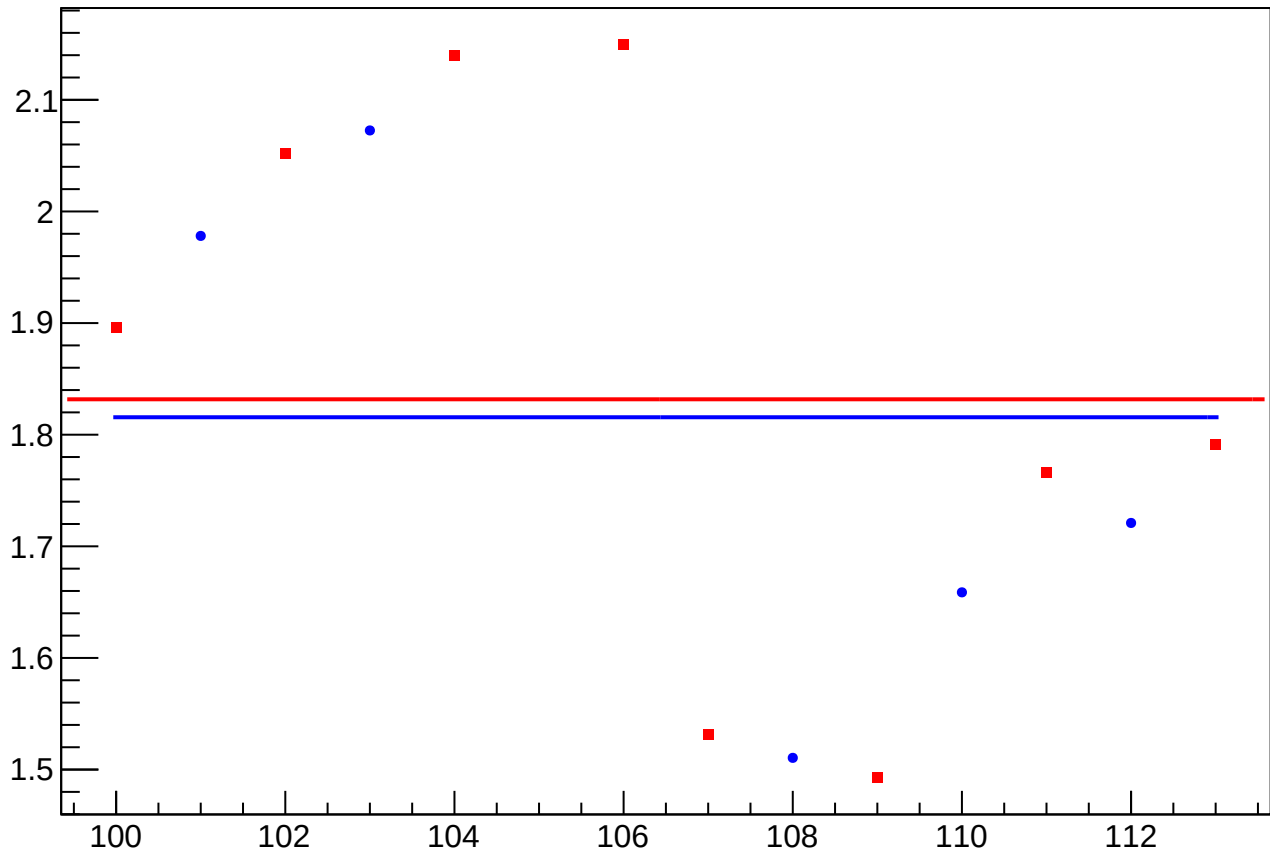
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 64910.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02aX\_mean vs Slug



Right In: 1.816 $\pm$ 0.000  $\chi^2$ /NDF: 673140402.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.832 $\pm$ 0.000  $\chi^2$ /NDF: 1142479048.4/7

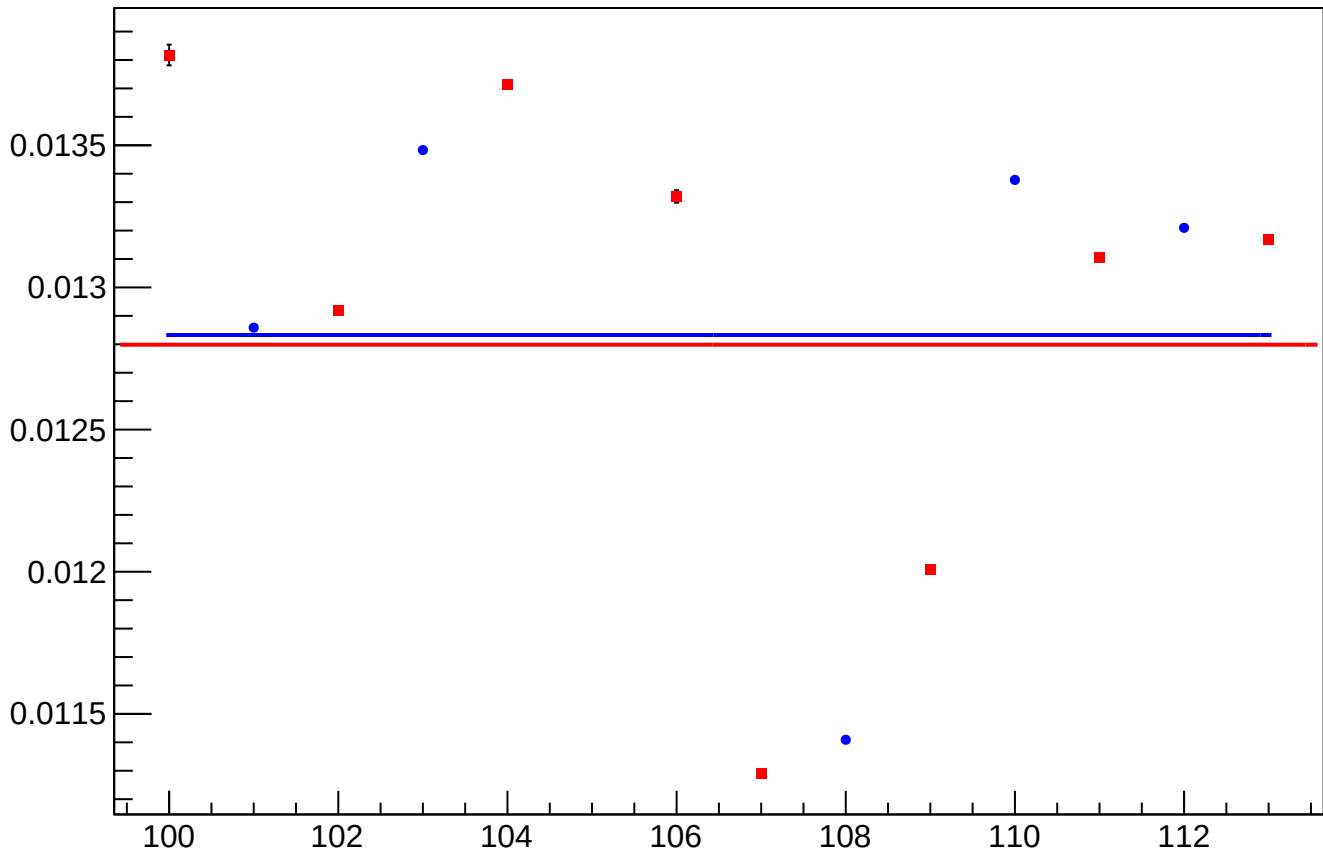
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.825 $\pm$ 0.000  $\chi^2$ /NDF: 1817757145.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i02aX\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 16938.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 20196.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

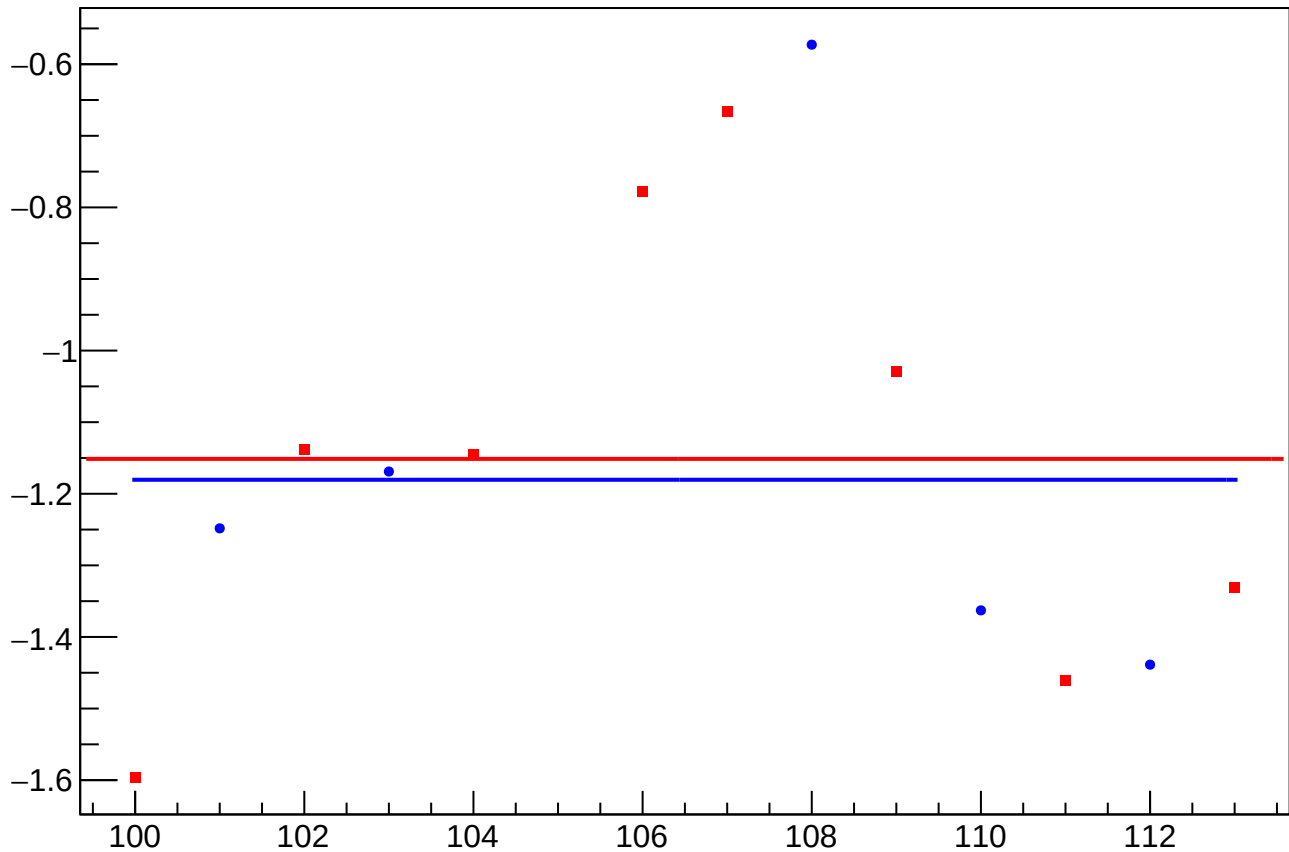
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 37154.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i02aY\_mean vs Slug



Right In: -1.180+/-0.000  $\chi^2/\text{NDF}$ : 2105557960.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.151+/-0.000  $\chi^2/\text{NDF}$ : 1610686769.9/7

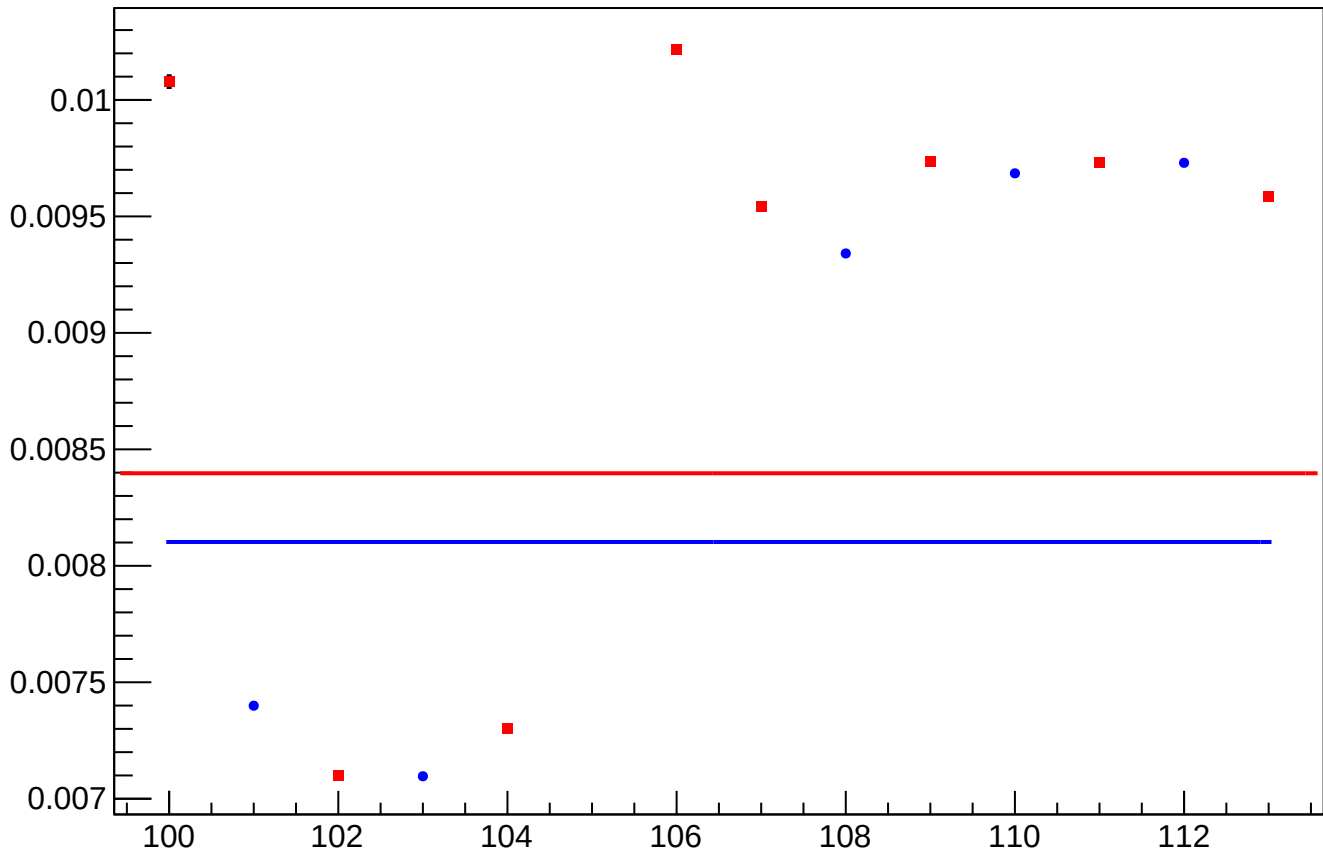
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.165+/-0.000  $\chi^2/\text{NDF}$ : 3732536497.4/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02aY\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 92954.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 133160.4/7

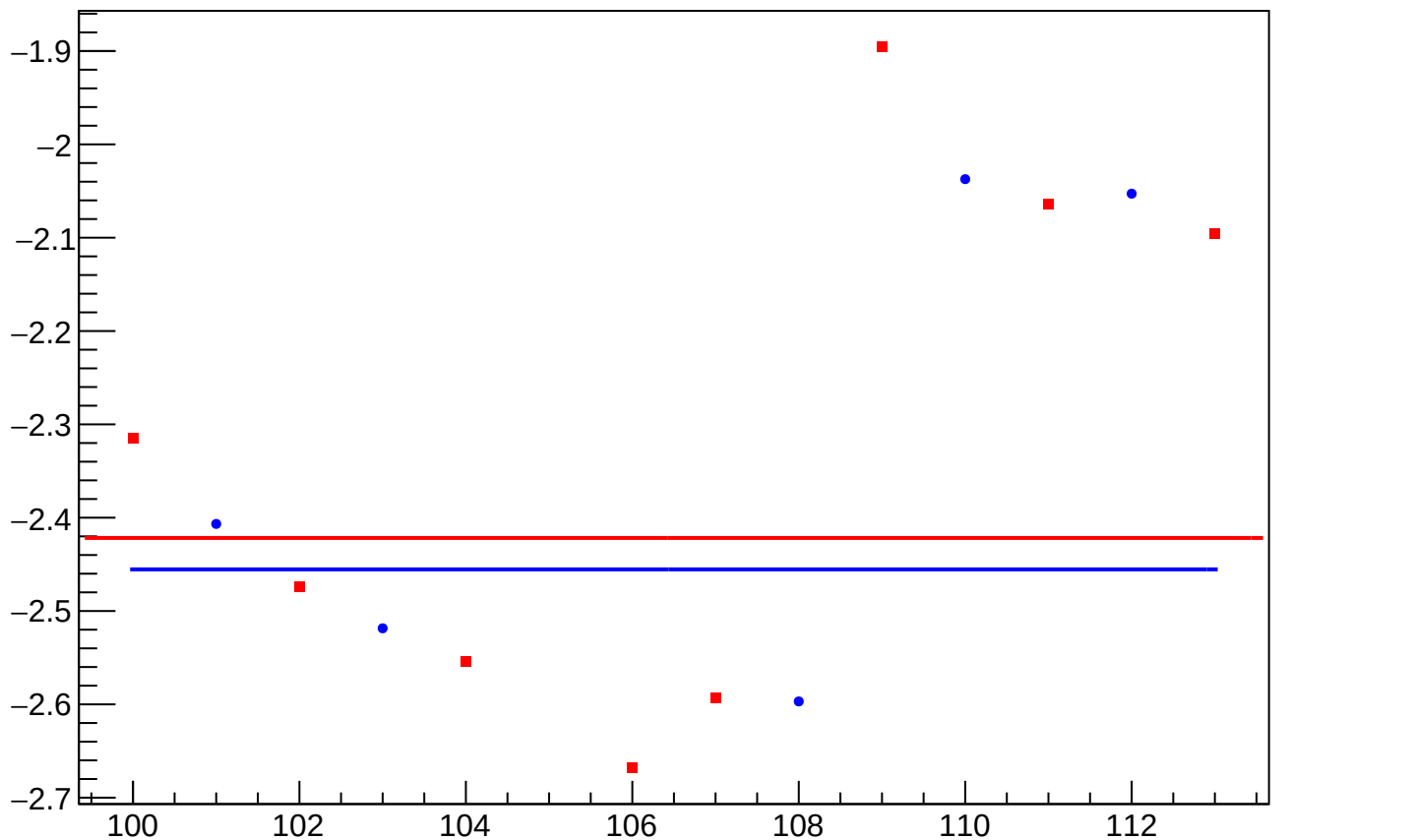
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 229450.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05X\_mean vs Slug



Right In: -2.455+/-0.000  $\chi^2/\text{NDF}$ : 794117381.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.422+/-0.000  $\chi^2/\text{NDF}$ : 2887454172.3/7

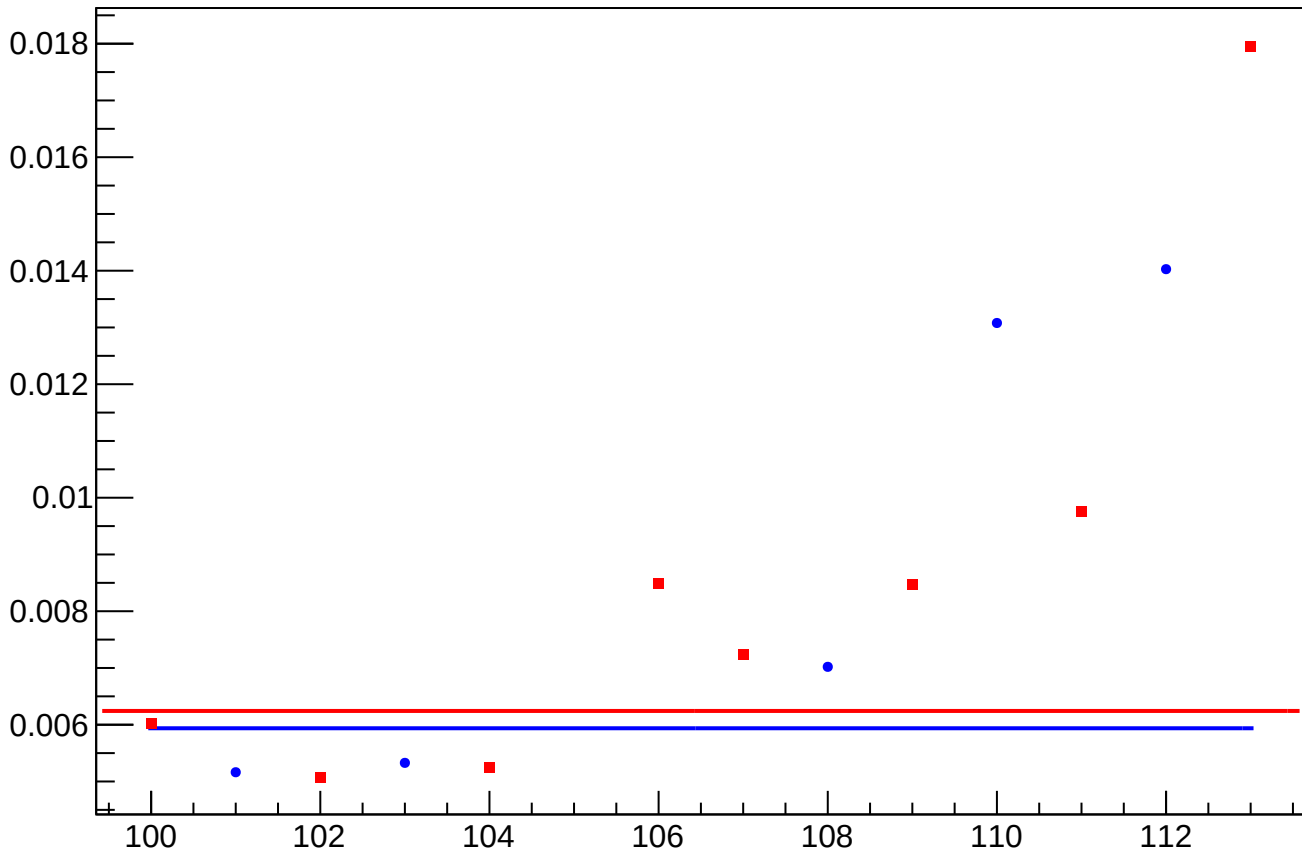
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.438+/-0.000  $\chi^2/\text{NDF}$ : 3714589986.7/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05X\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 409479.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 532437.8/7

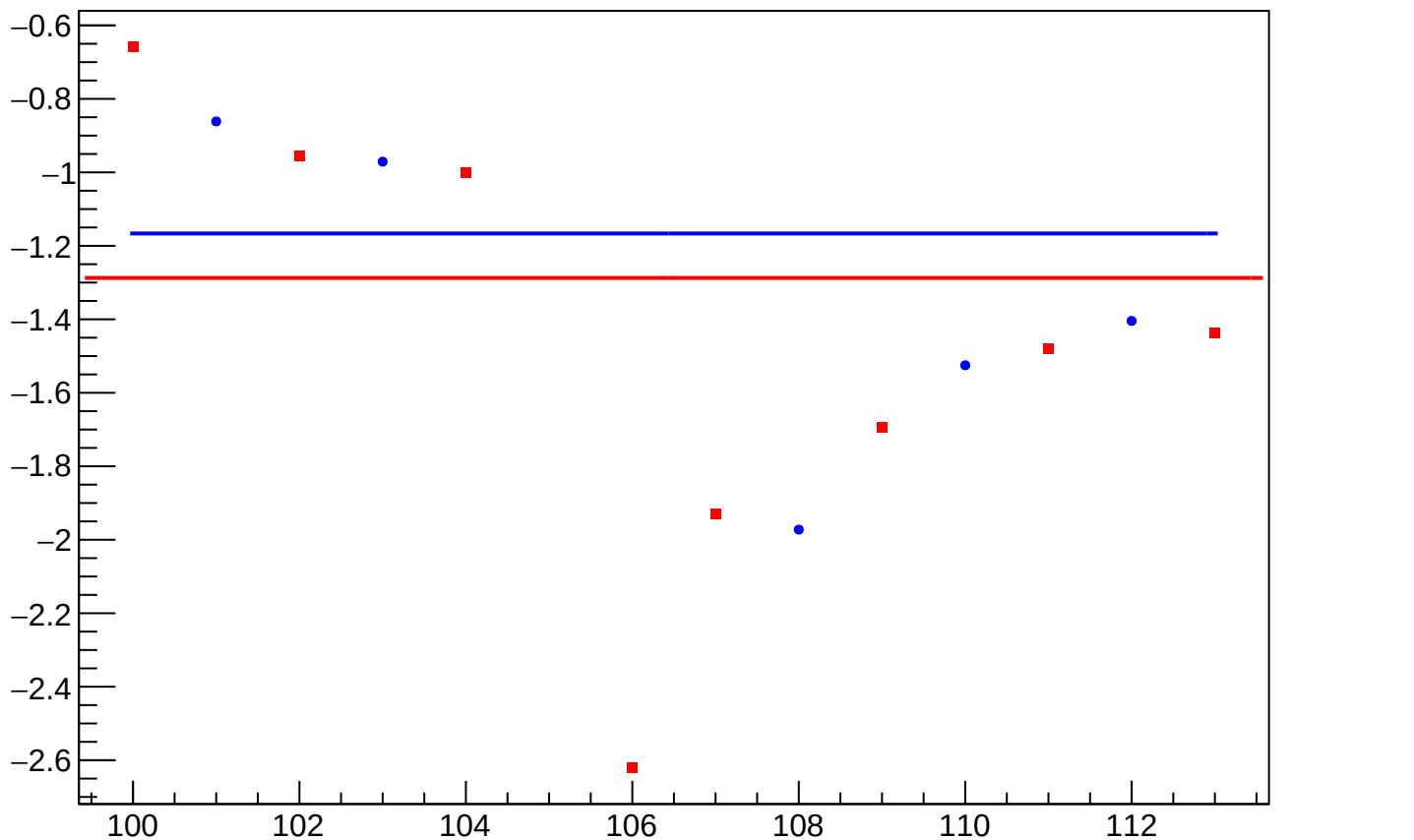
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 947344.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05Y\_mean vs Slug



Right In:  $-1.166 \pm 0.000$   $\chi^2/\text{NDF}: 10318479327.2/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-1.287 \pm 0.000$   $\chi^2/\text{NDF}: 16958389143.6/7$

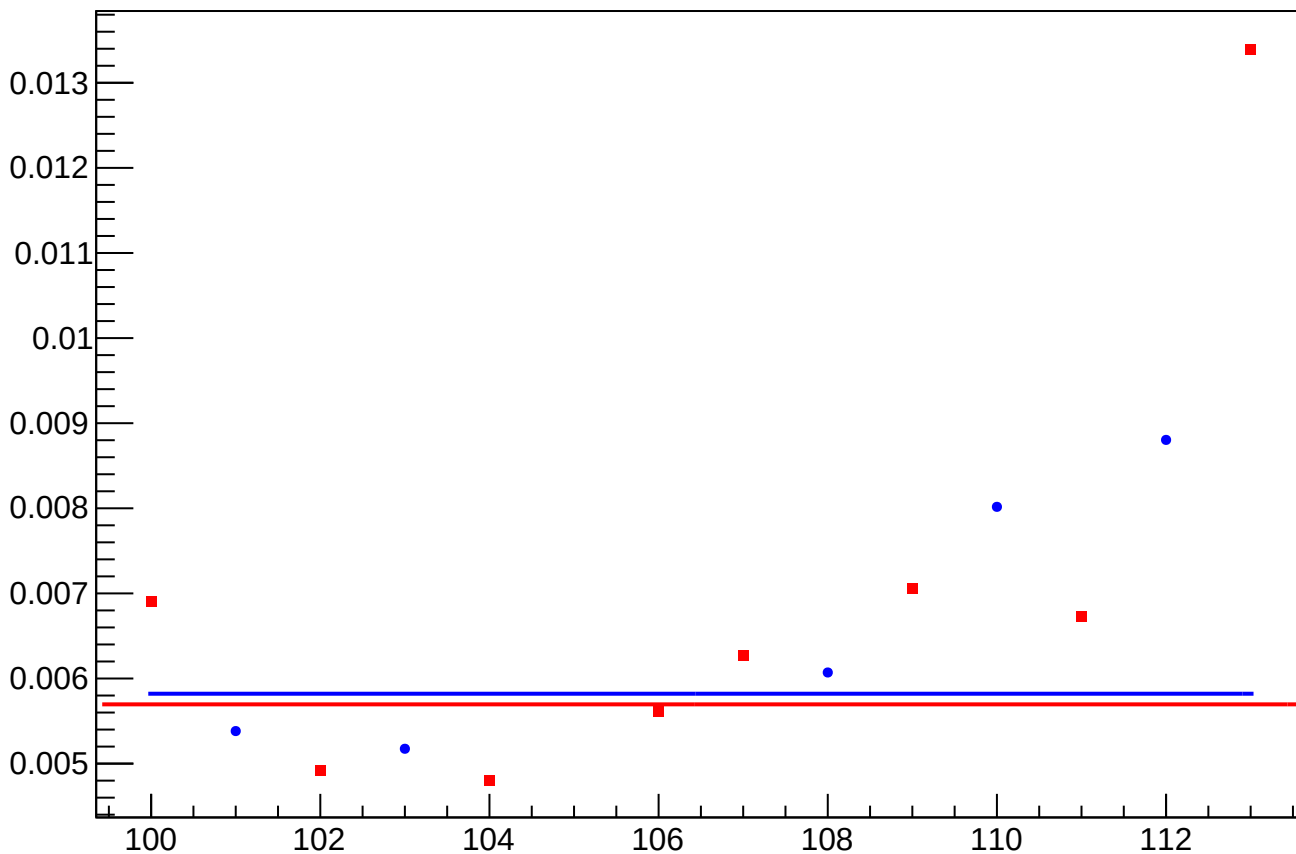
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-1.234 \pm 0.000$   $\chi^2/\text{NDF}: 27780320781.4/11$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# yield\_bpm0i05Y\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 137061.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 298260.9/7

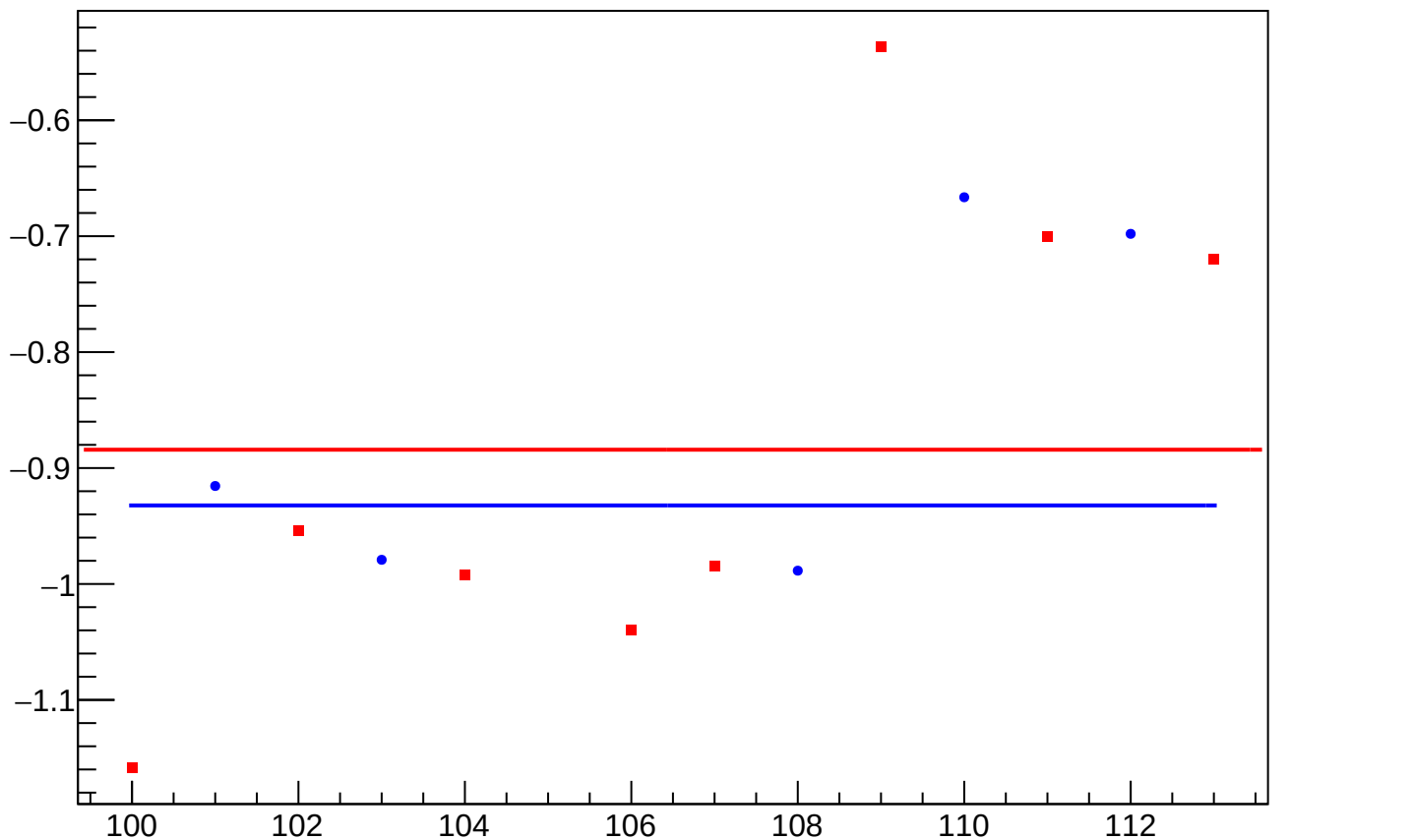
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 436394.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i07X\_mean vs Slug



Right In: -0.932+/-0.000  $\chi^2/\text{NDF}$ : 589319595.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.884+/-0.000  $\chi^2/\text{NDF}$ : 3239955807.4/7

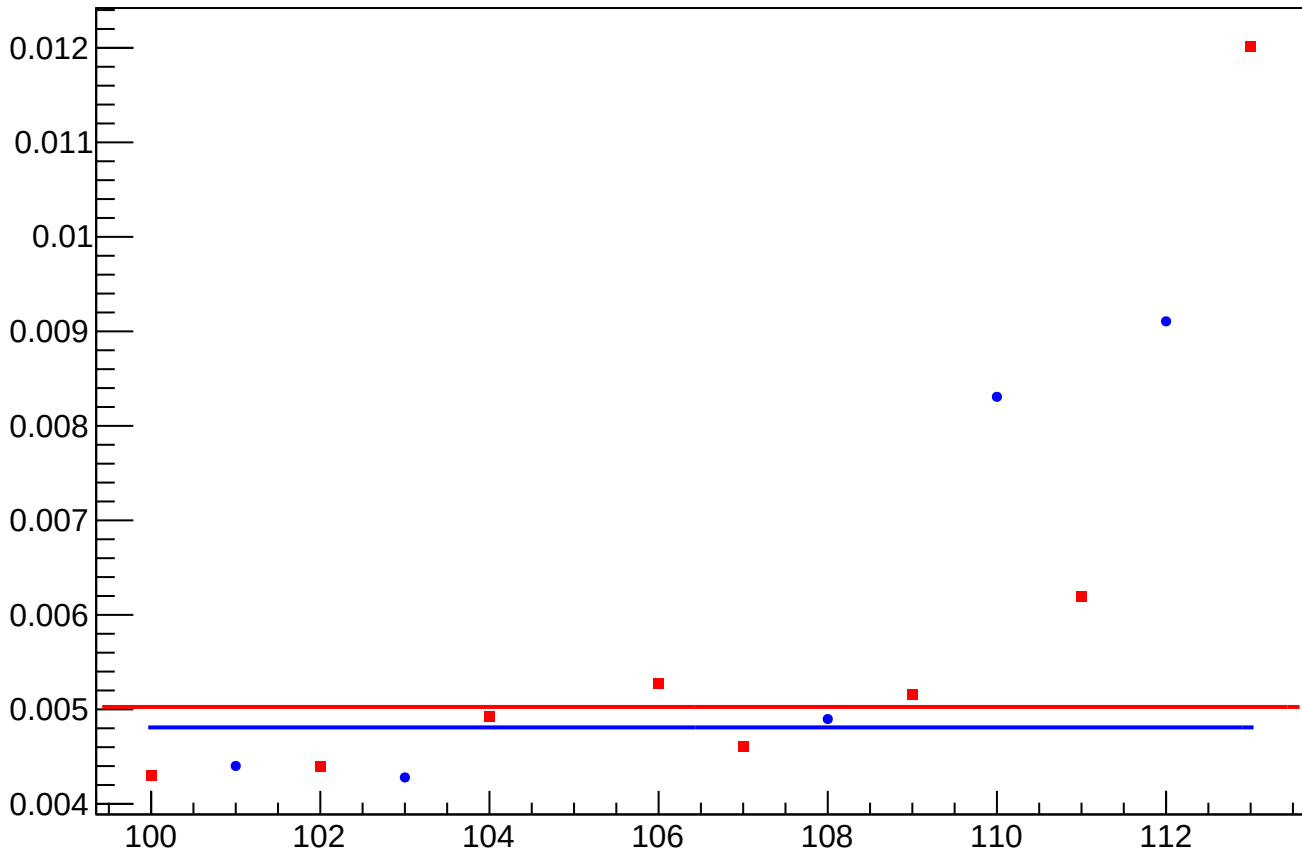
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.906+/-0.000  $\chi^2/\text{NDF}$ : 3938099699.9/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i07X\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 254258.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 264273.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

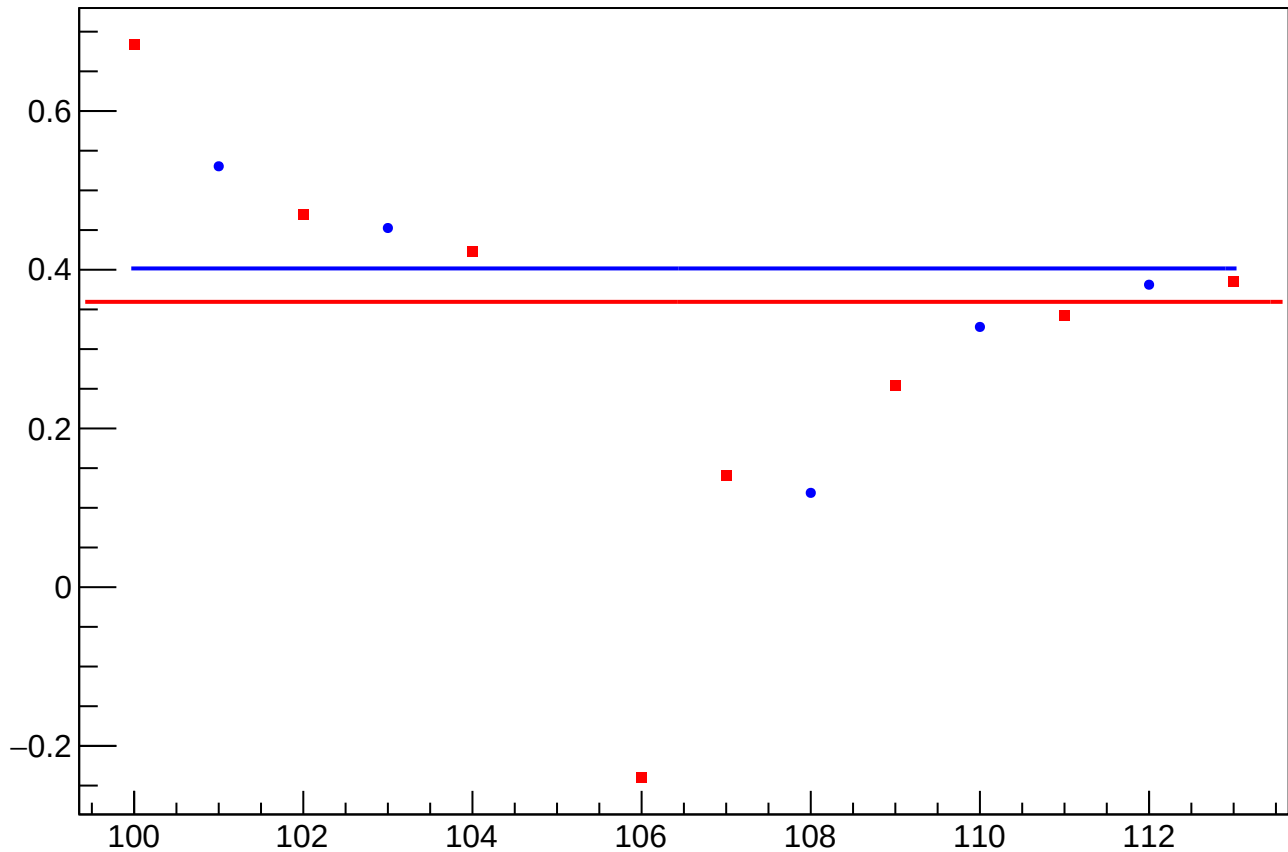
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 522945.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i07Y\_mean vs Slug



Right In: 0.402 $\pm$ 0.000  $\chi^2$ /NDF: 3049011193.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.360 $\pm$ 0.000  $\chi^2$ /NDF: 4683998557.8/7

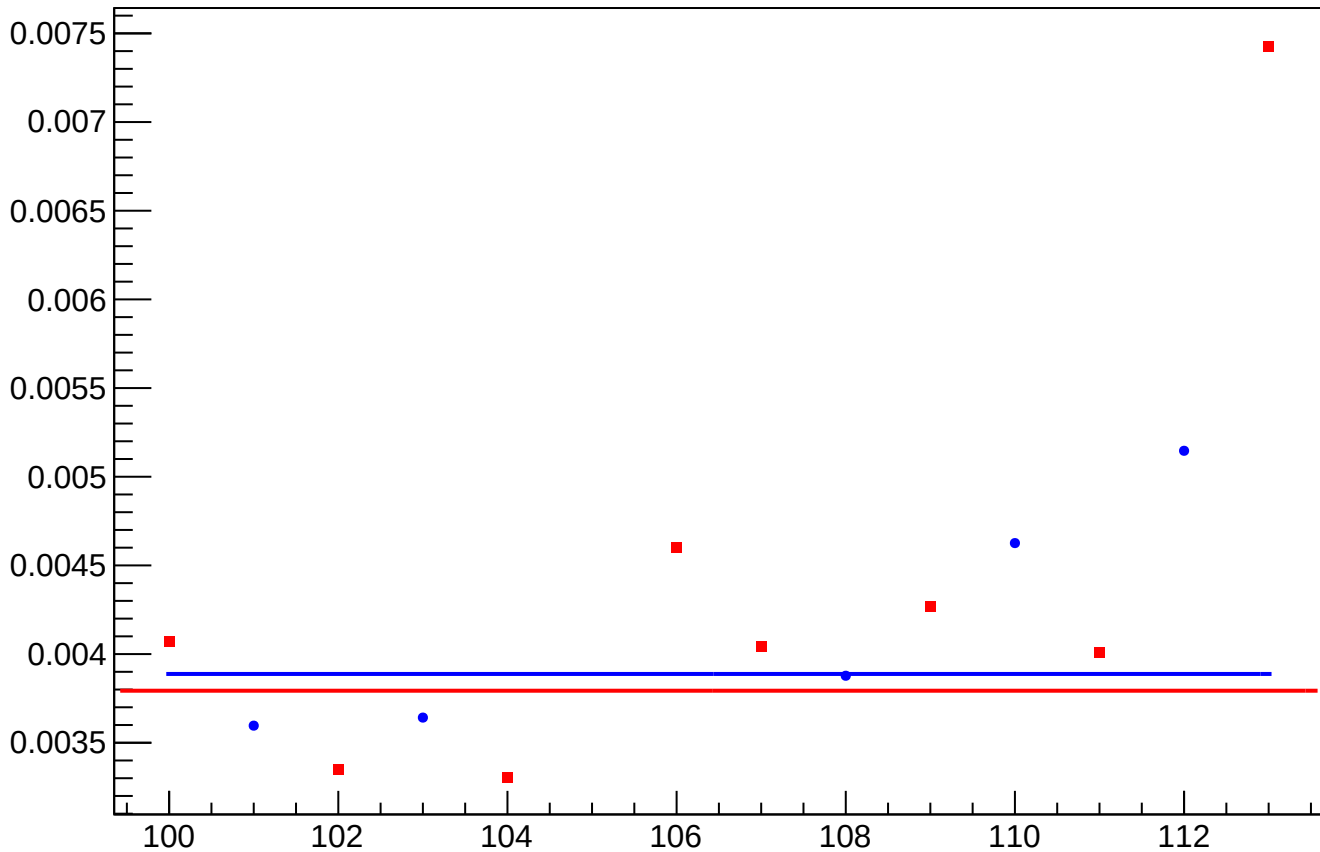
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.378 $\pm$ 0.000  $\chi^2$ /NDF: 7875049907.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i07Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 66695.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 200121.0/7

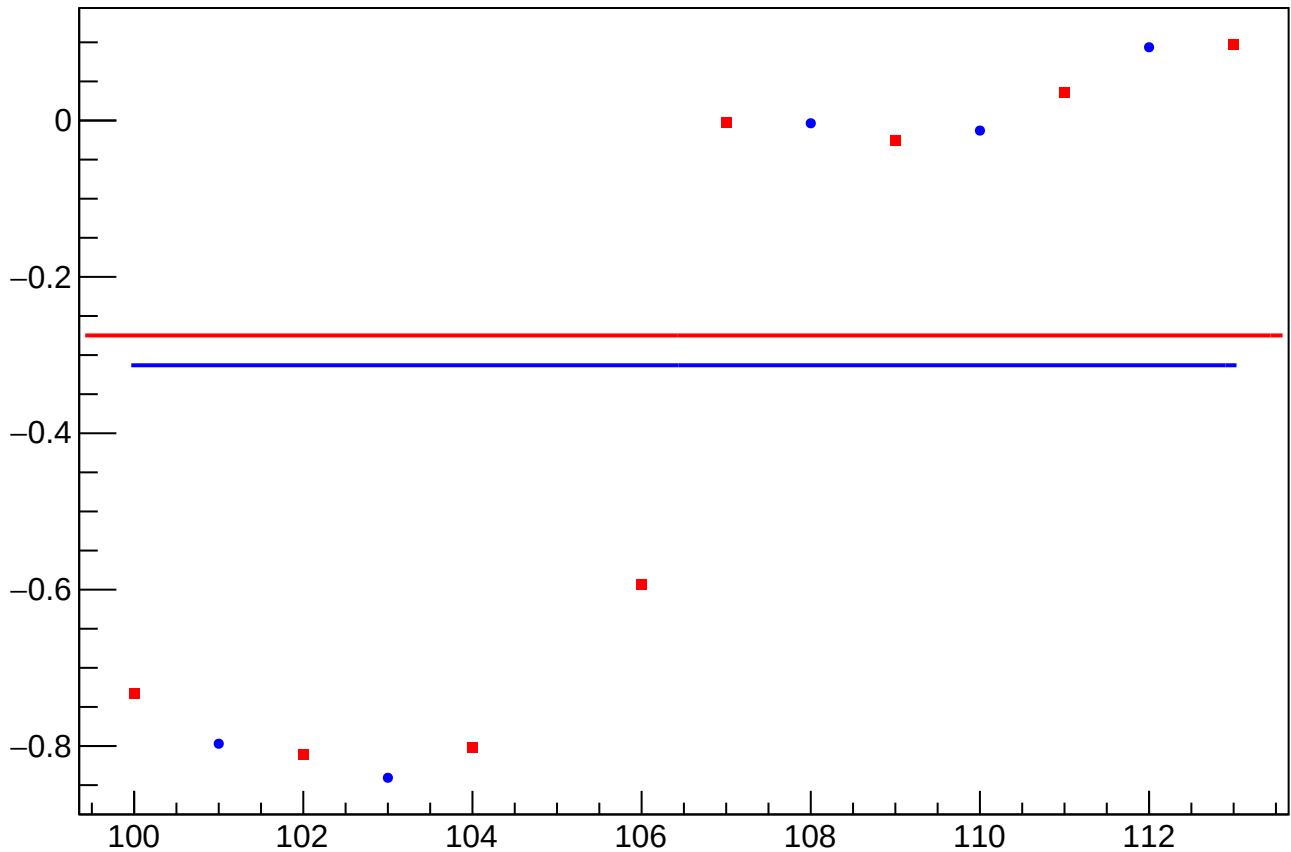
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 268248.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02X\_mean vs Slug



Right In: -0.313+/-0.000  $\chi^2/\text{NDF}$ : 3707747015.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.275+/-0.000  $\chi^2/\text{NDF}$ : 4433436930.7/7

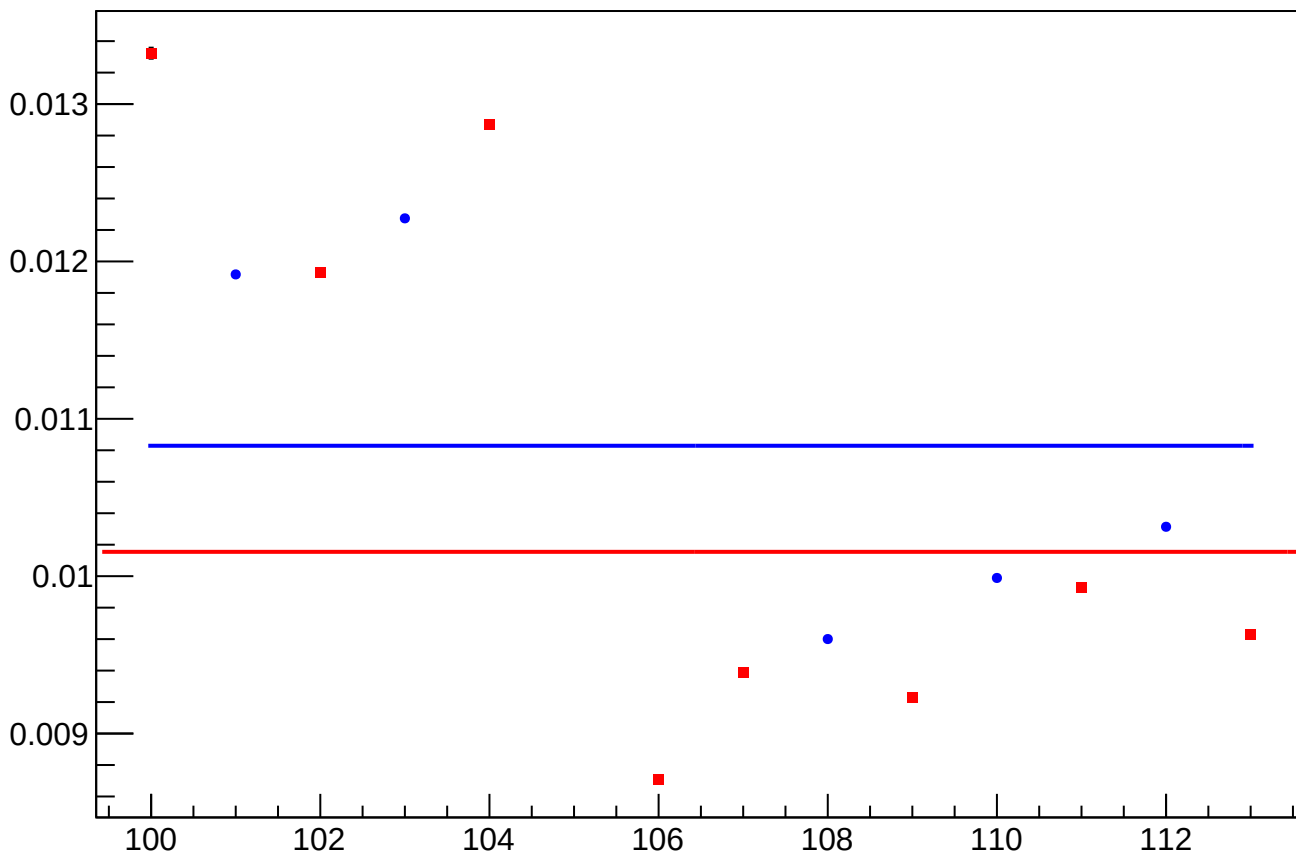
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.290+/-0.000  $\chi^2/\text{NDF}$ : 8159570826.8/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 48245.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 118006.4/7

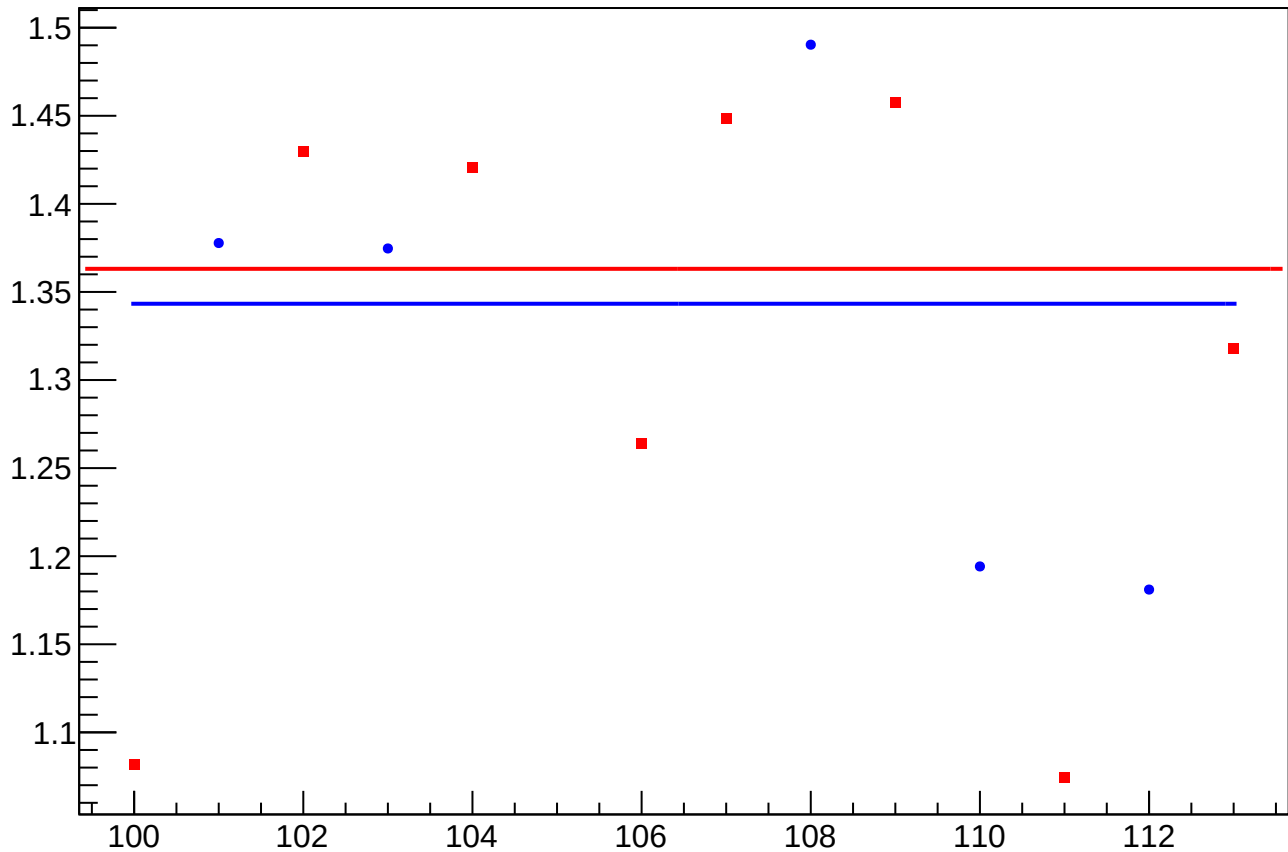
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 177727.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02Y\_mean vs Slug



Right In: 1.343+/-0.000  $\chi^2/\text{NDF}$ : 546185965.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.363+/-0.000  $\chi^2/\text{NDF}$ : 1019173190.9/7

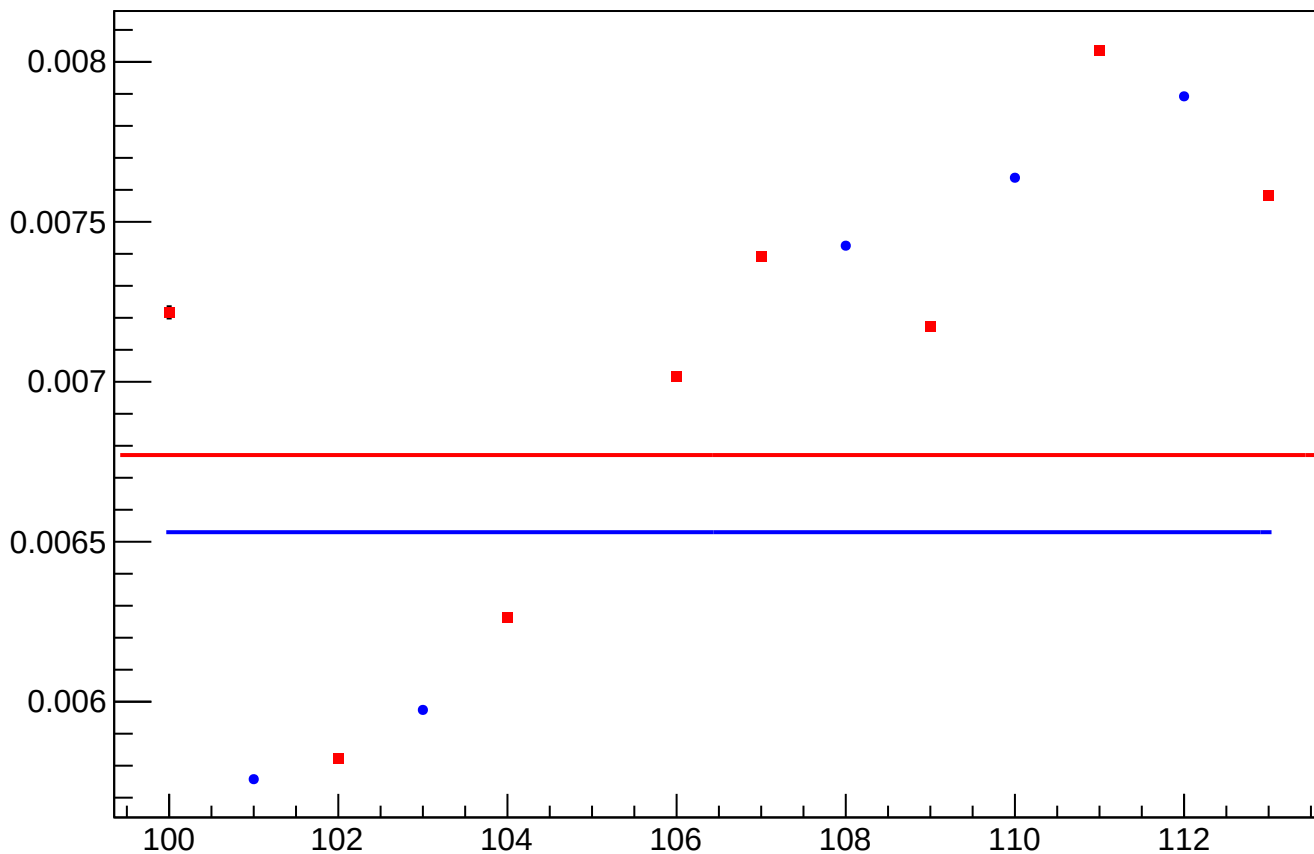
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.354+/-0.000  $\chi^2/\text{NDF}$ : 1577805106.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02Y\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 90312.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 81852.7/7

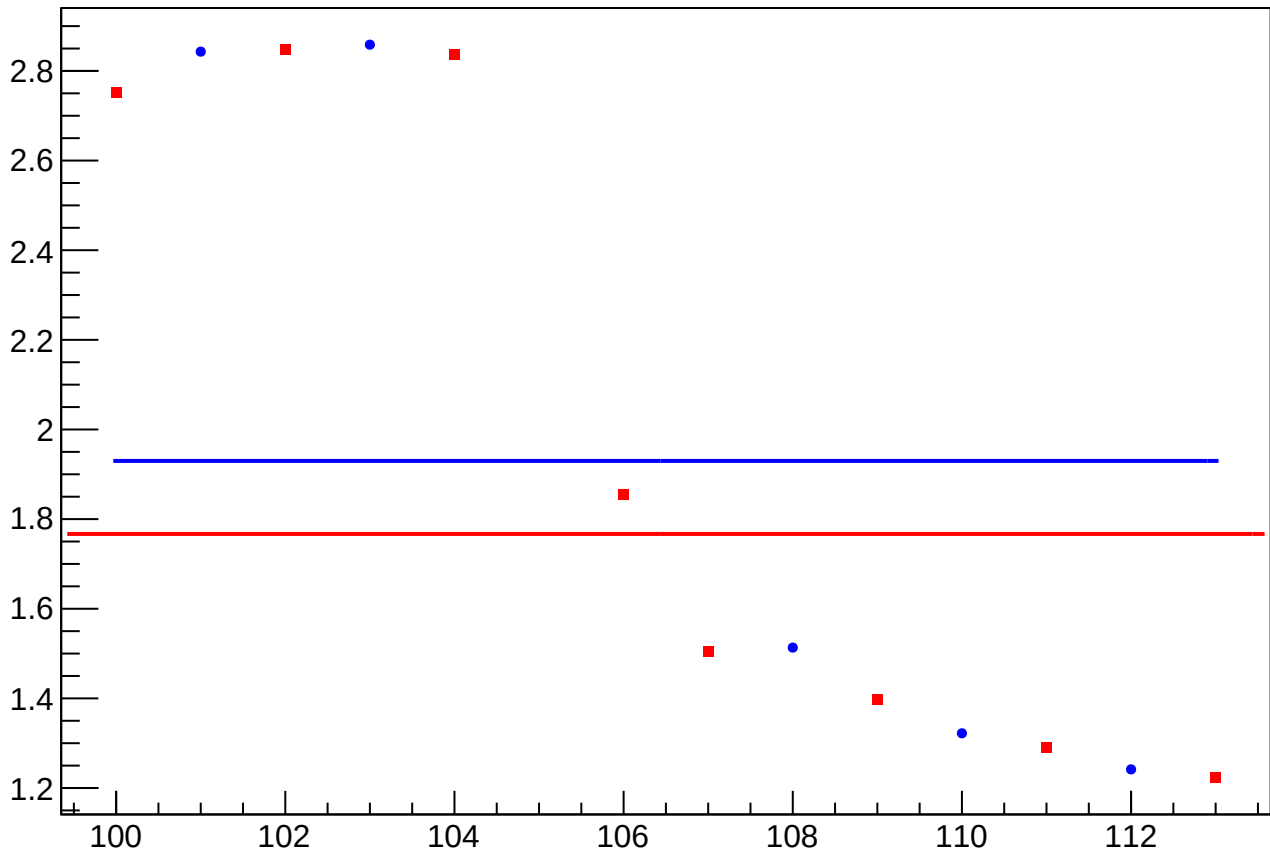
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 175846.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04X\_mean vs Slug



Right In: 1.930+/-0.000  $\chi^2/\text{NDF}$ : 26846837235.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.767+/-0.000  $\chi^2/\text{NDF}$ : 29306371897.8/7

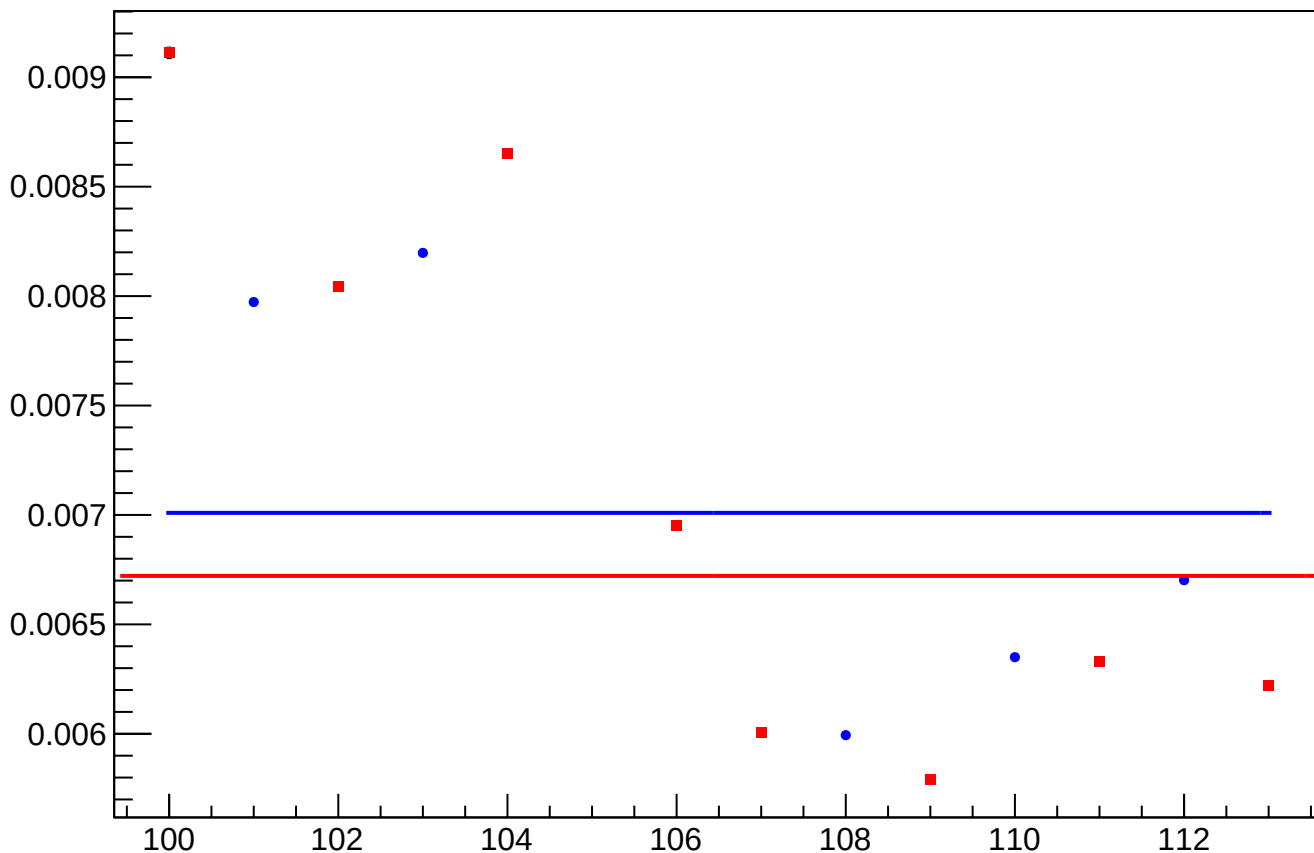
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.835+/-0.000  $\chi^2/\text{NDF}$ : 56932533691.1/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 77075.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 141292.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

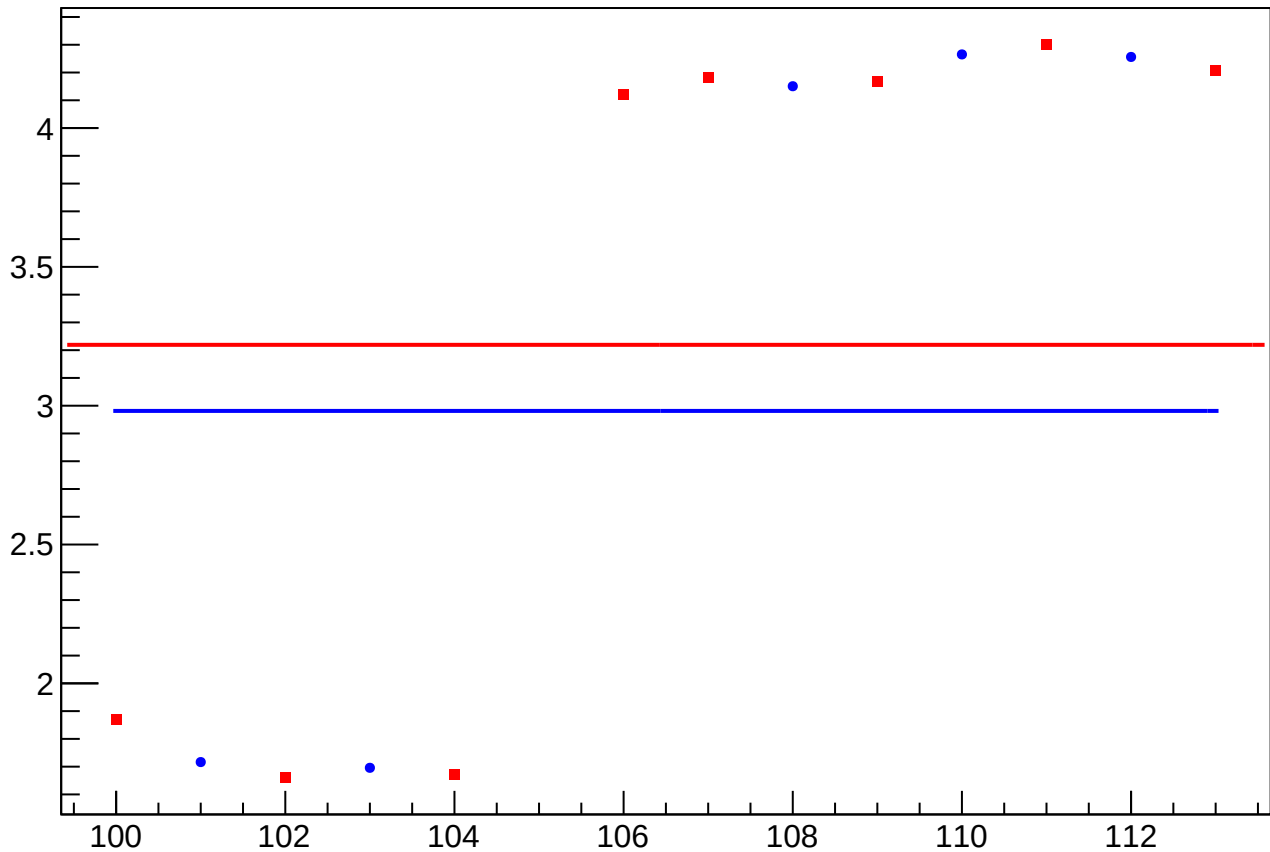
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 223239.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm1i04Y\_mean vs Slug



Right In: 2.981+/-0.000  $\chi^2/\text{NDF}$ : 144889664644.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.219+/-0.000  $\chi^2/\text{NDF}$ : 174653403669.9/7

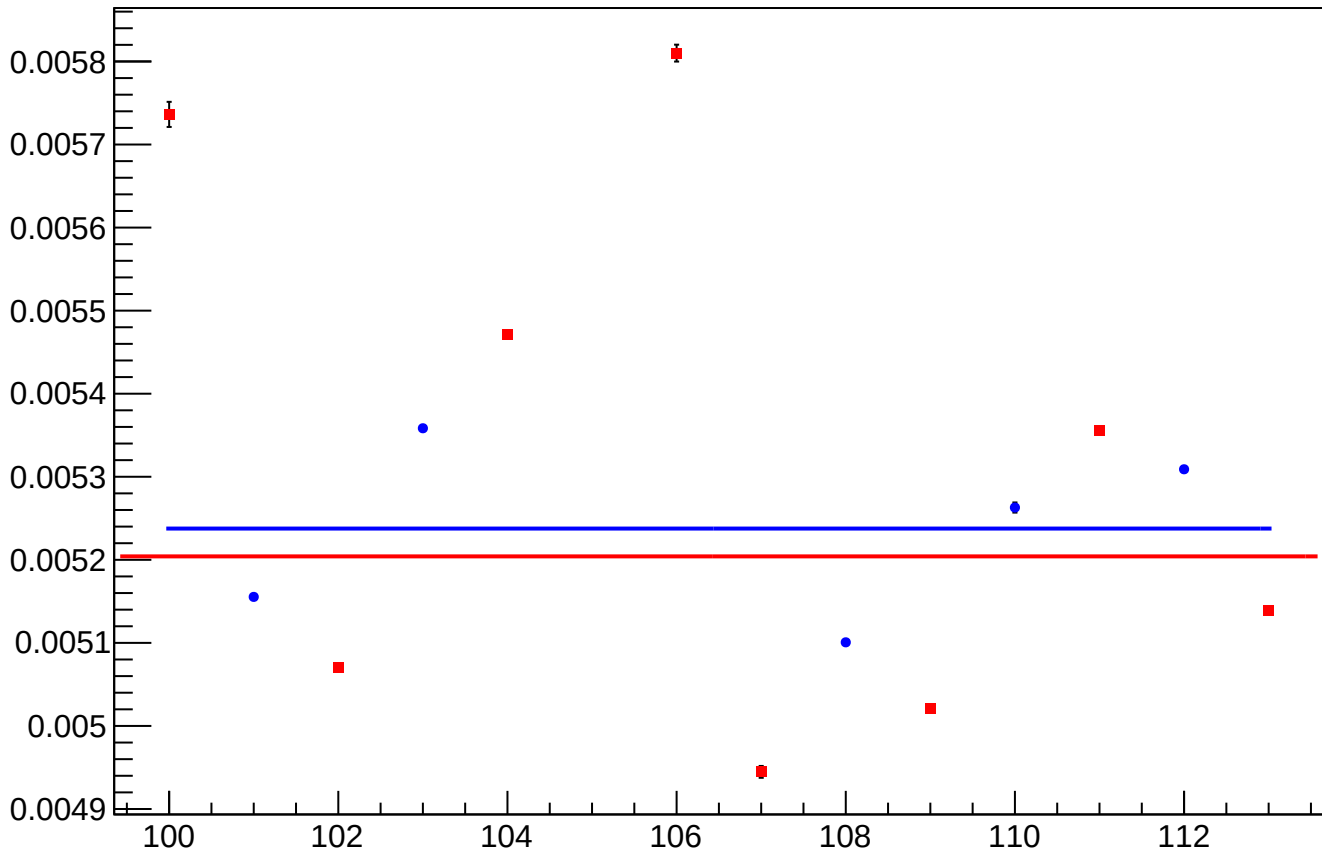
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.113+/-0.000  $\chi^2/\text{NDF}$ : 322420390906.5

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04Y\_rms vs Slug



Right In: 0.005 $\pm$ 0.000  $\chi^2$ /NDF: 1698.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.005 $\pm$ 0.000  $\chi^2$ /NDF: 11788.3/7

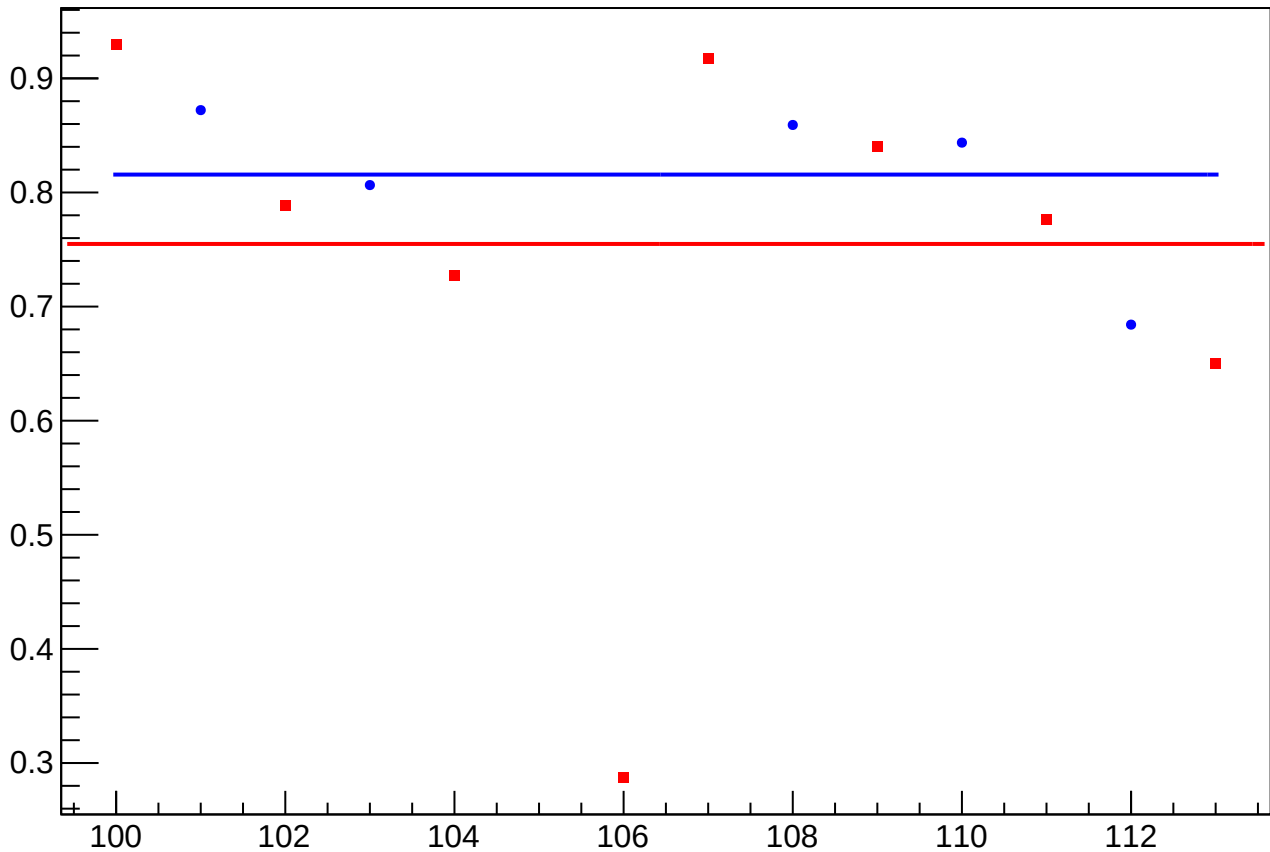
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.000  $\chi^2$ /NDF: 13600.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i06X\_mean vs Slug



Right In: 0.816+/-0.000  $\chi^2/\text{NDF}$ : 52667932.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.755+/-0.000  $\chi^2/\text{NDF}$ : 252642804.4/7

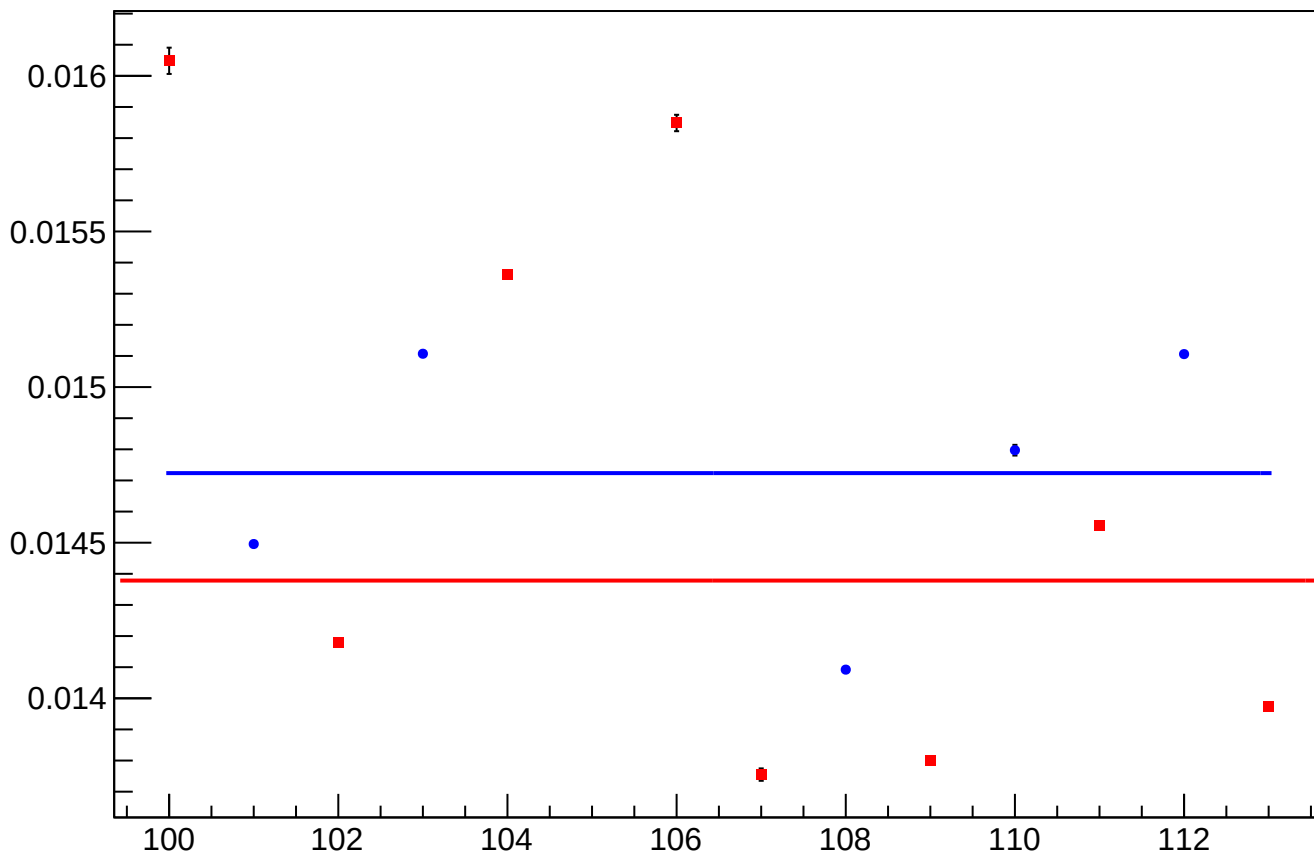
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.781+/-0.000  $\chi^2/\text{NDF}$ : 329440378.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06X\_rms vs Slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 3306.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 12950.9/7

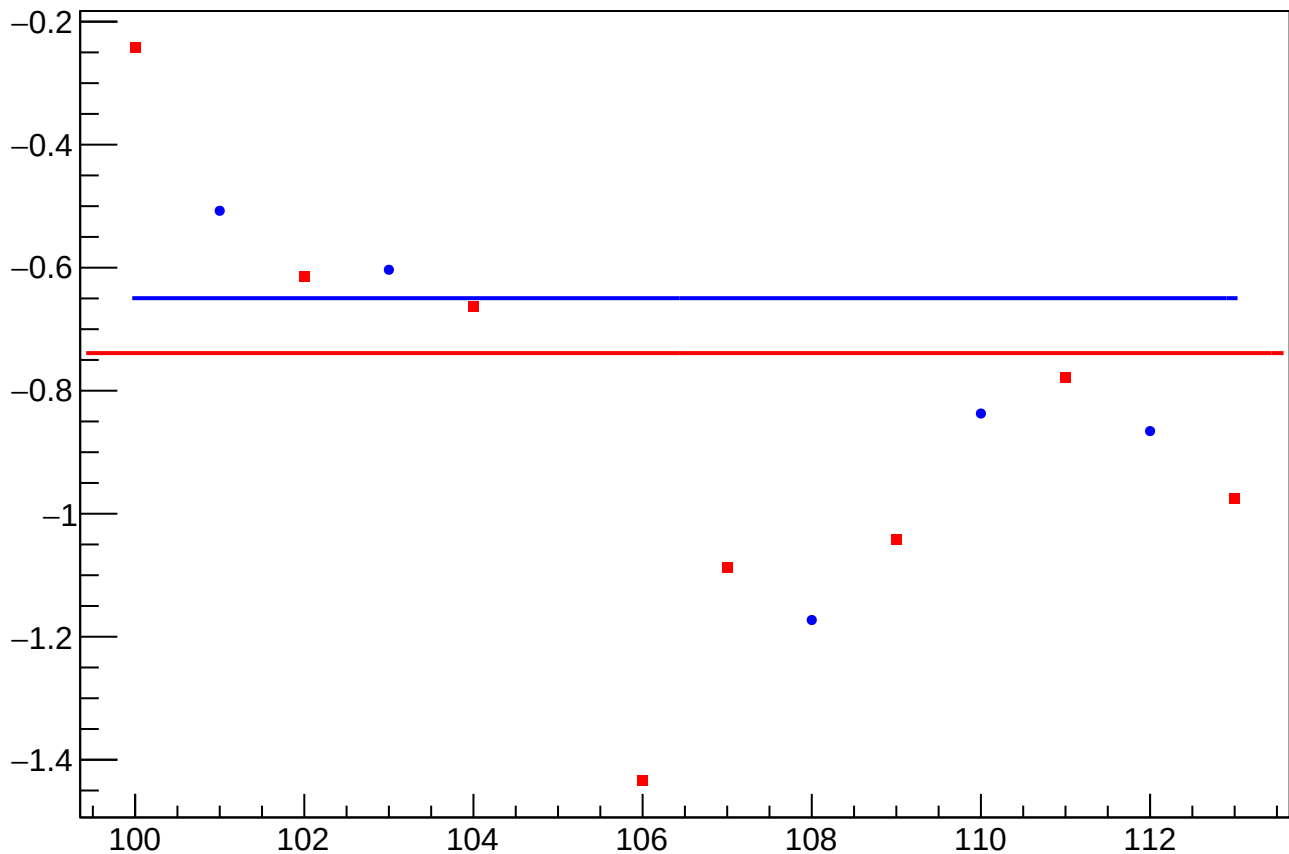
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 17814.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06Y\_mean vs Slug



Right In: -0.650+/-0.000  $\chi^2/\text{NDF}$ : 3892524299.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.739+/-0.000  $\chi^2/\text{NDF}$ : 5161525136.2/7

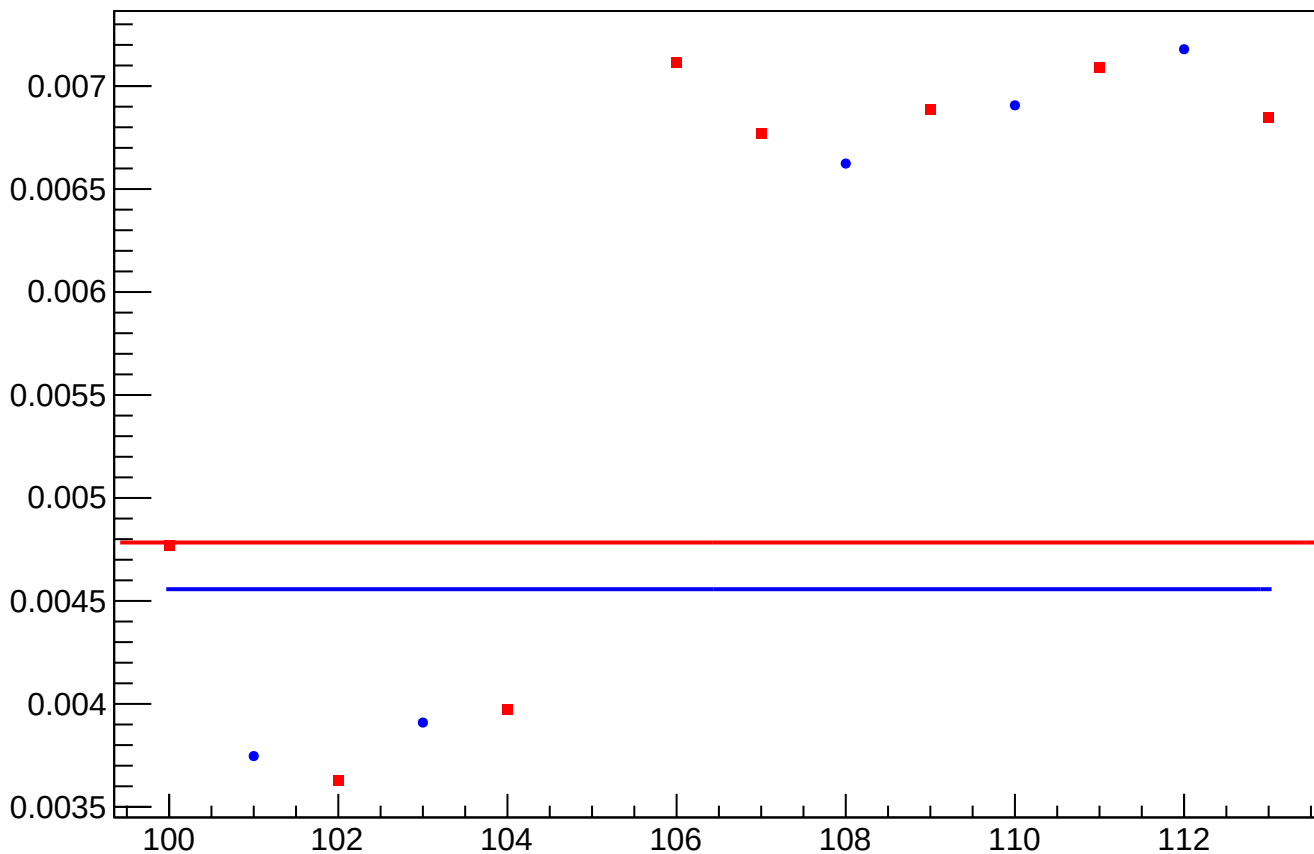
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.697+/-0.000  $\chi^2/\text{NDF}$ : 9490206505.1/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 359889.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 502750.6/7

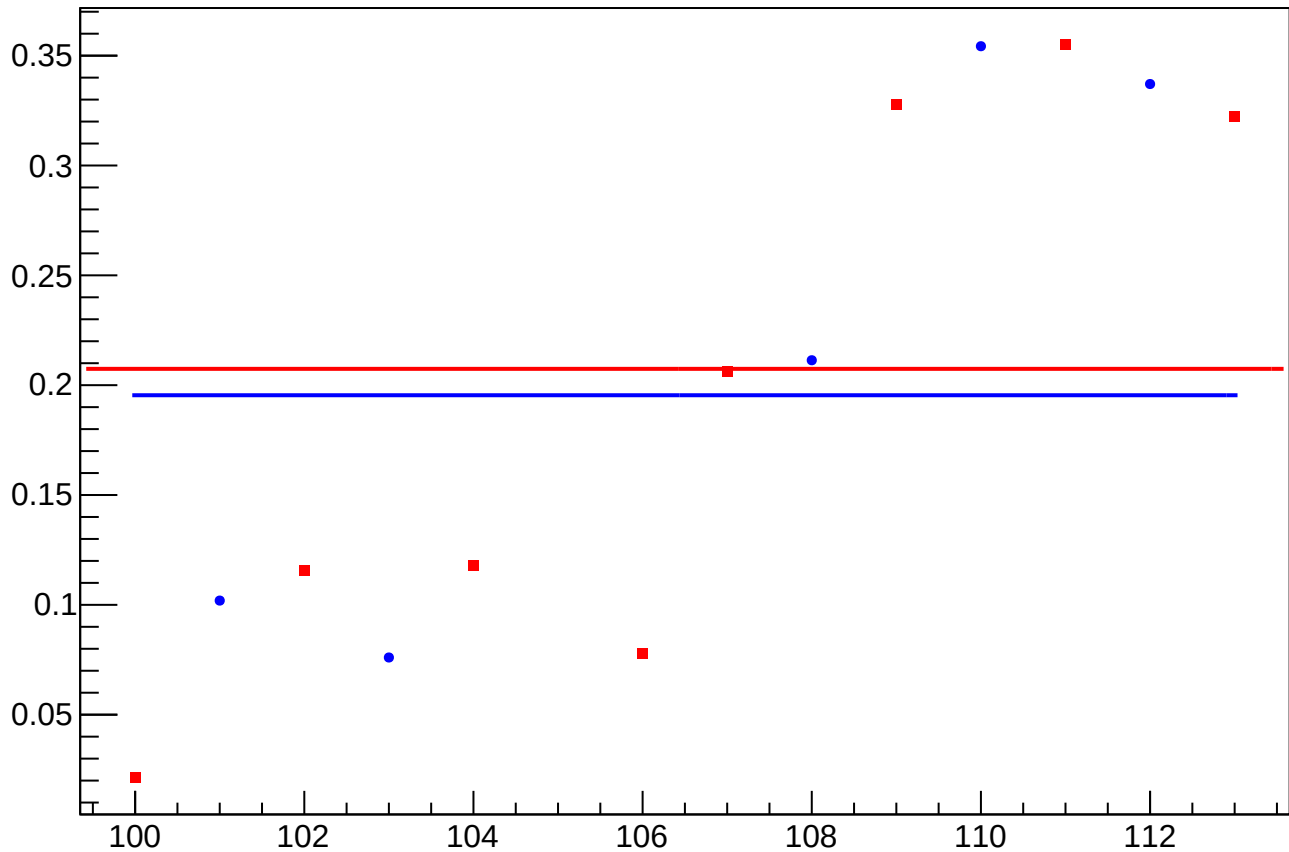
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 868262.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01X\_mean vs Slug



Right In: 0.195+/-0.000  $\chi^2/\text{NDF}$ : 13016484863.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.207+/-0.000  $\chi^2/\text{NDF}$ : 18873851026.1/7

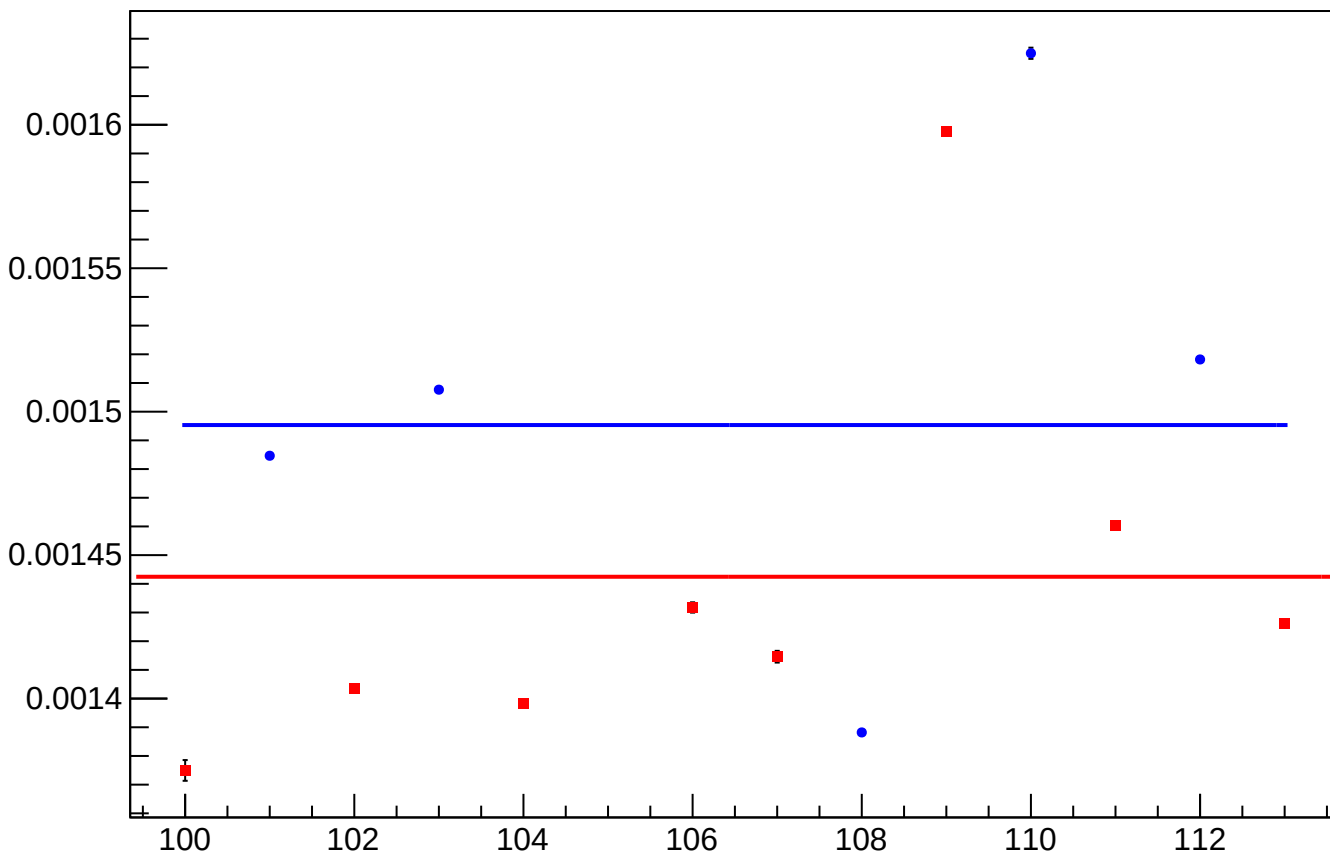
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.203+/-0.000  $\chi^2/\text{NDF}$ : 31978579378.6/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01X\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 9442.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 12444.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

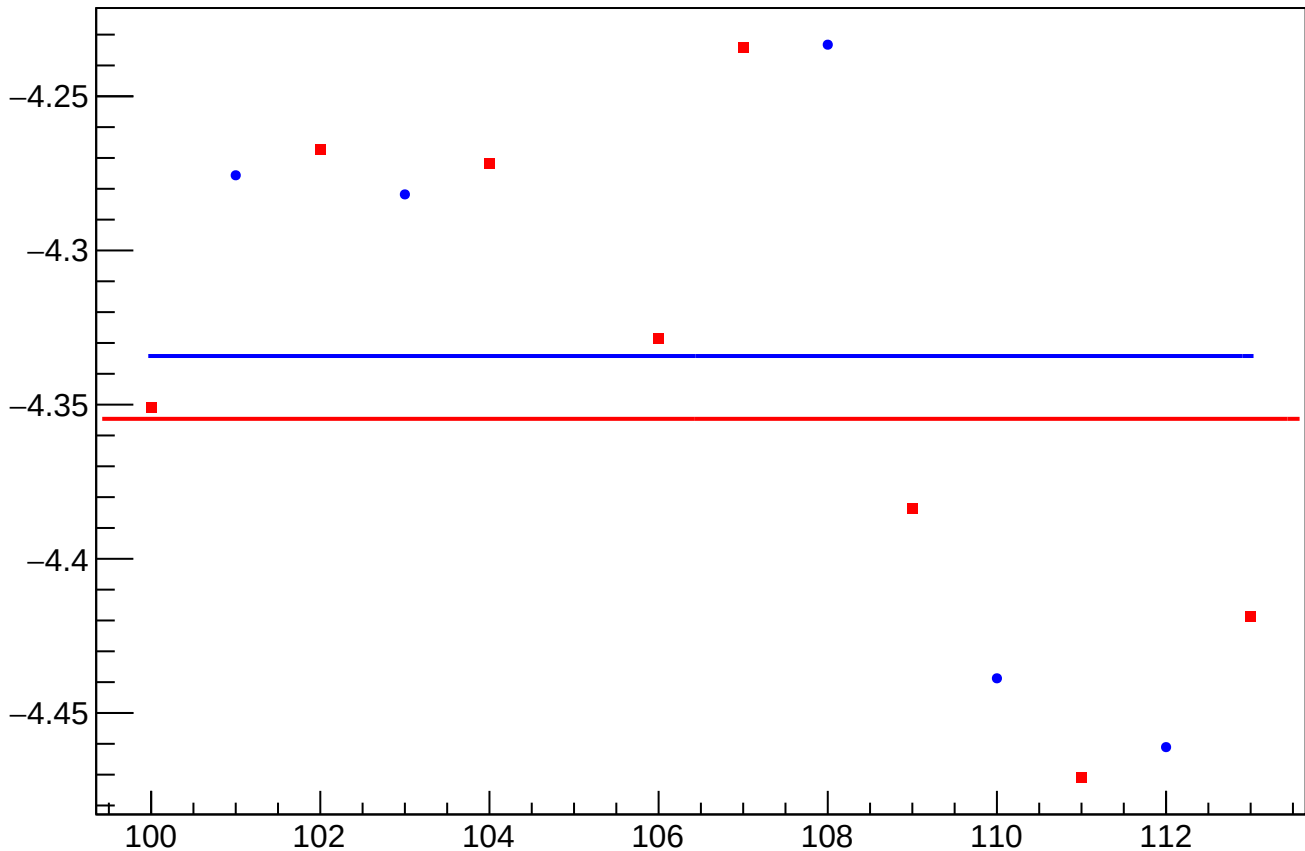
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 25305.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm2i01Y\_mean vs Slug



Right In: -4.334+/-0.000  $\chi^2/\text{NDF}$ : 7964915662.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.355+/-0.000  $\chi^2/\text{NDF}$ : 7662539858.2/7

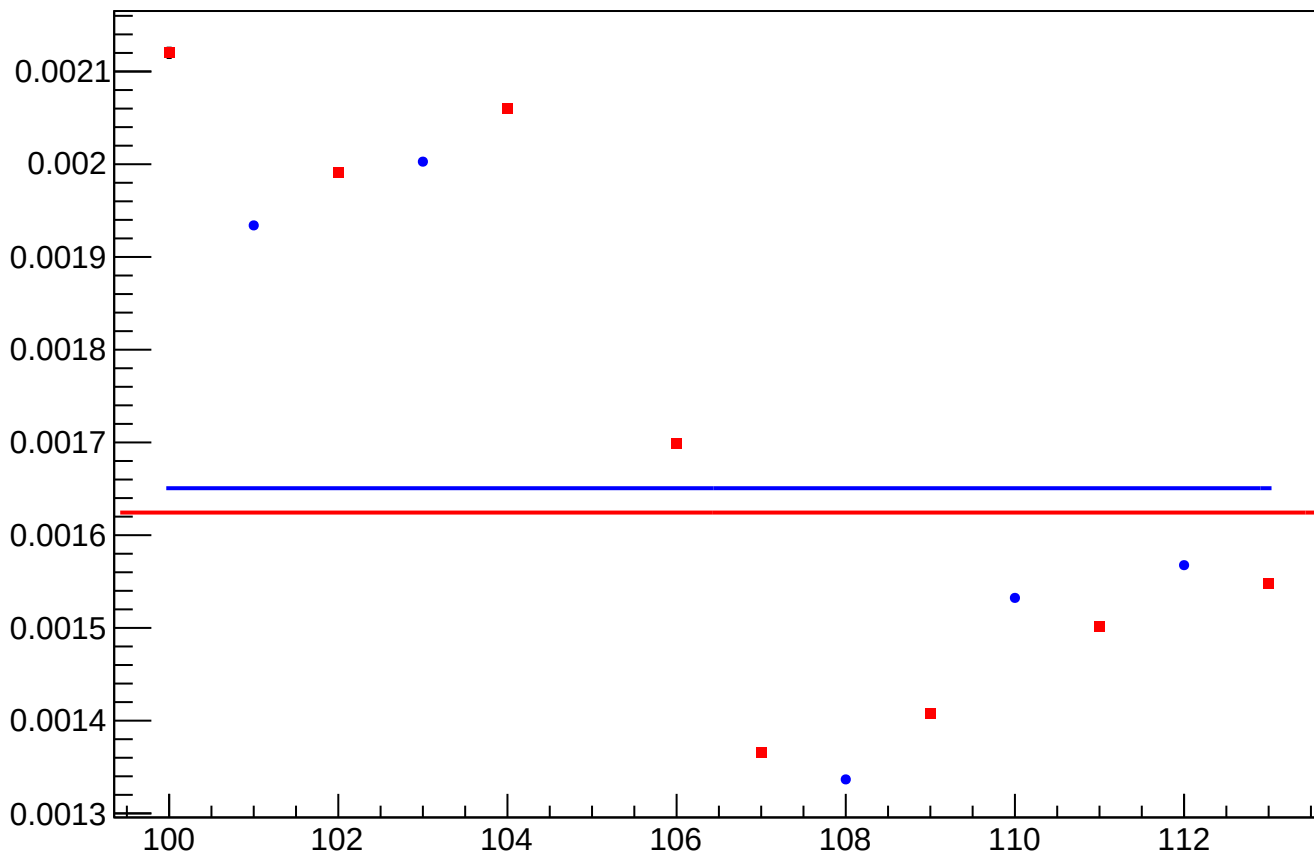
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.346+/-0.000  $\chi^2/\text{NDF}$ : 15837450898.2/11

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01Y\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 114988.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 149200.5/7

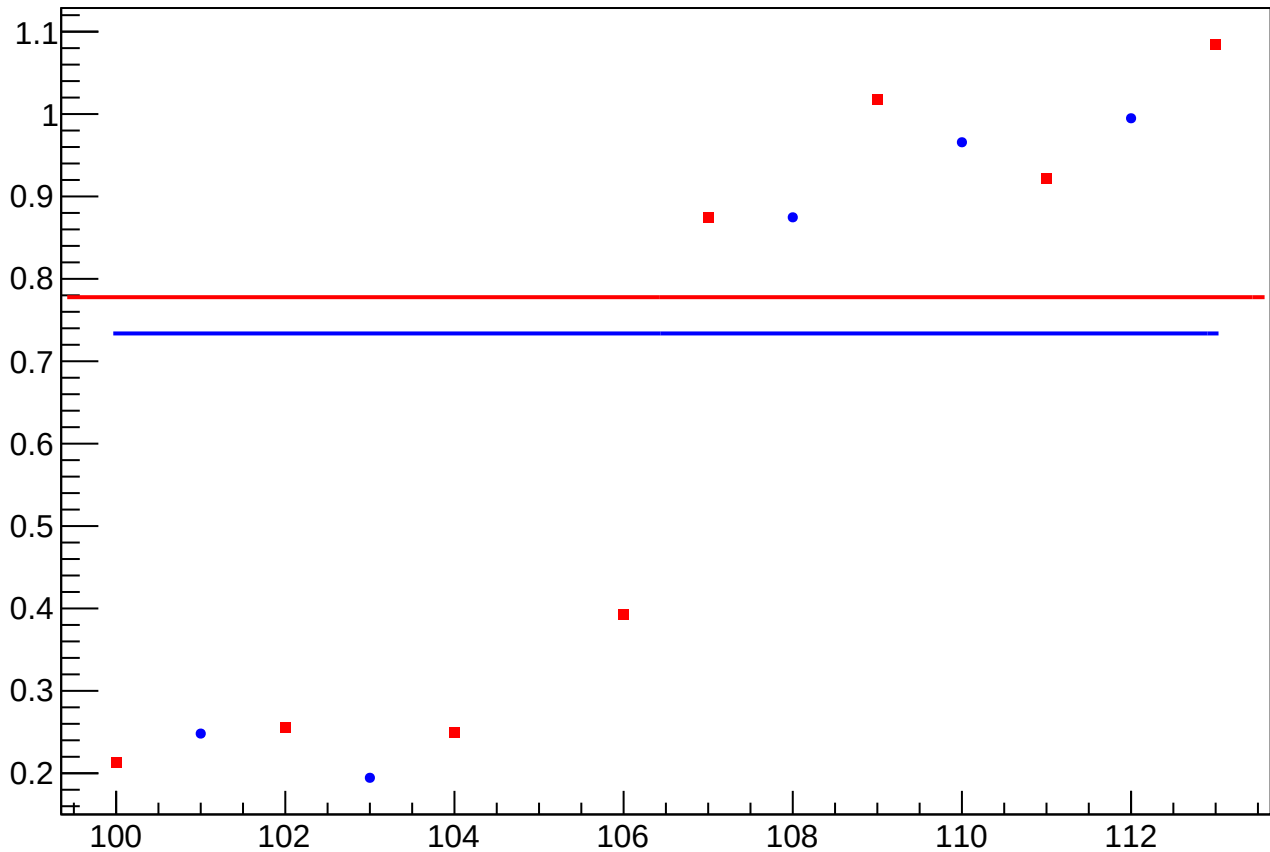
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 264887.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02X\_mean vs Slug



Right In: 0.734+/-0.000  $\chi^2/\text{NDF}$ : 6184218840.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.778+/-0.000  $\chi^2/\text{NDF}$ : 9266392151.8/7

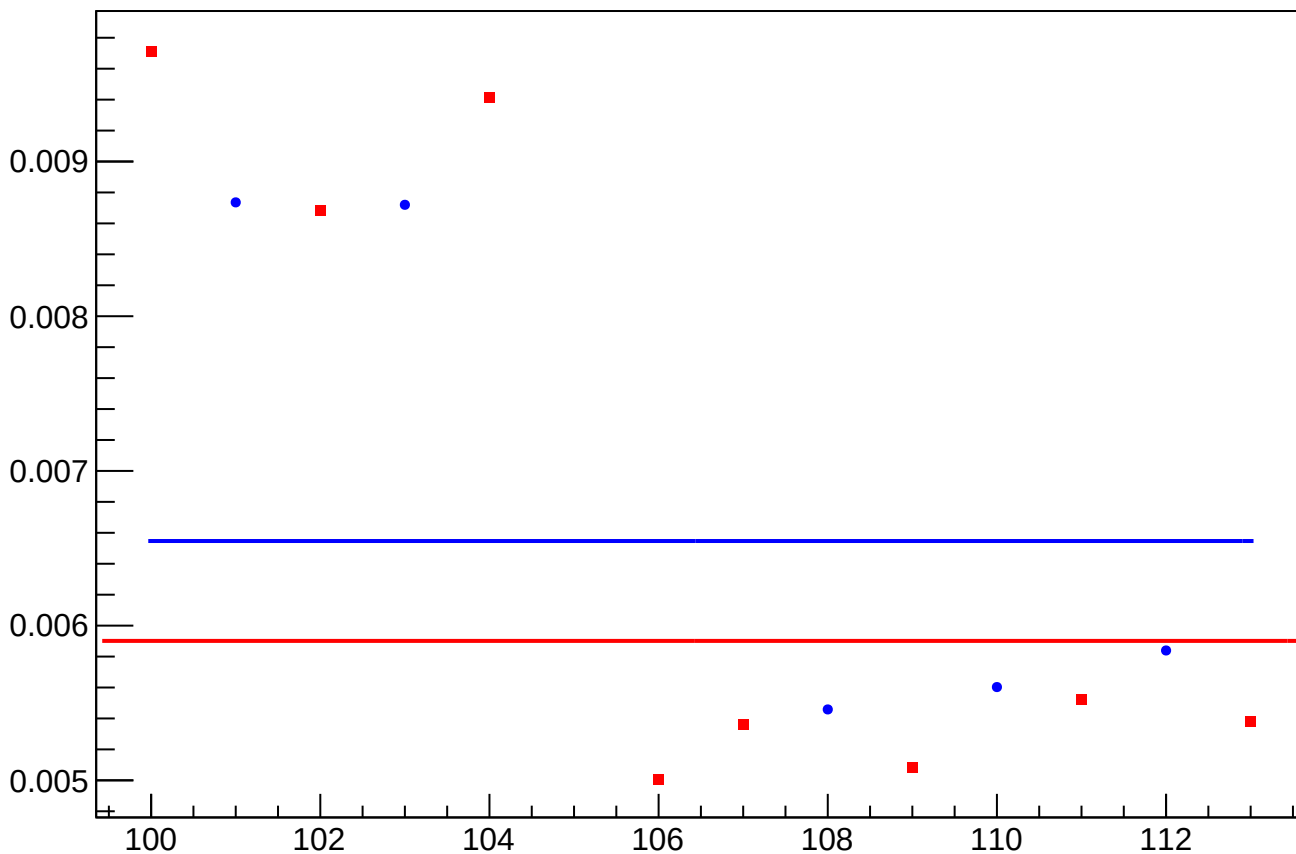
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.761+/-0.000  $\chi^2/\text{NDF}$ : 15516995016.8/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 223048.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 366565.4/7

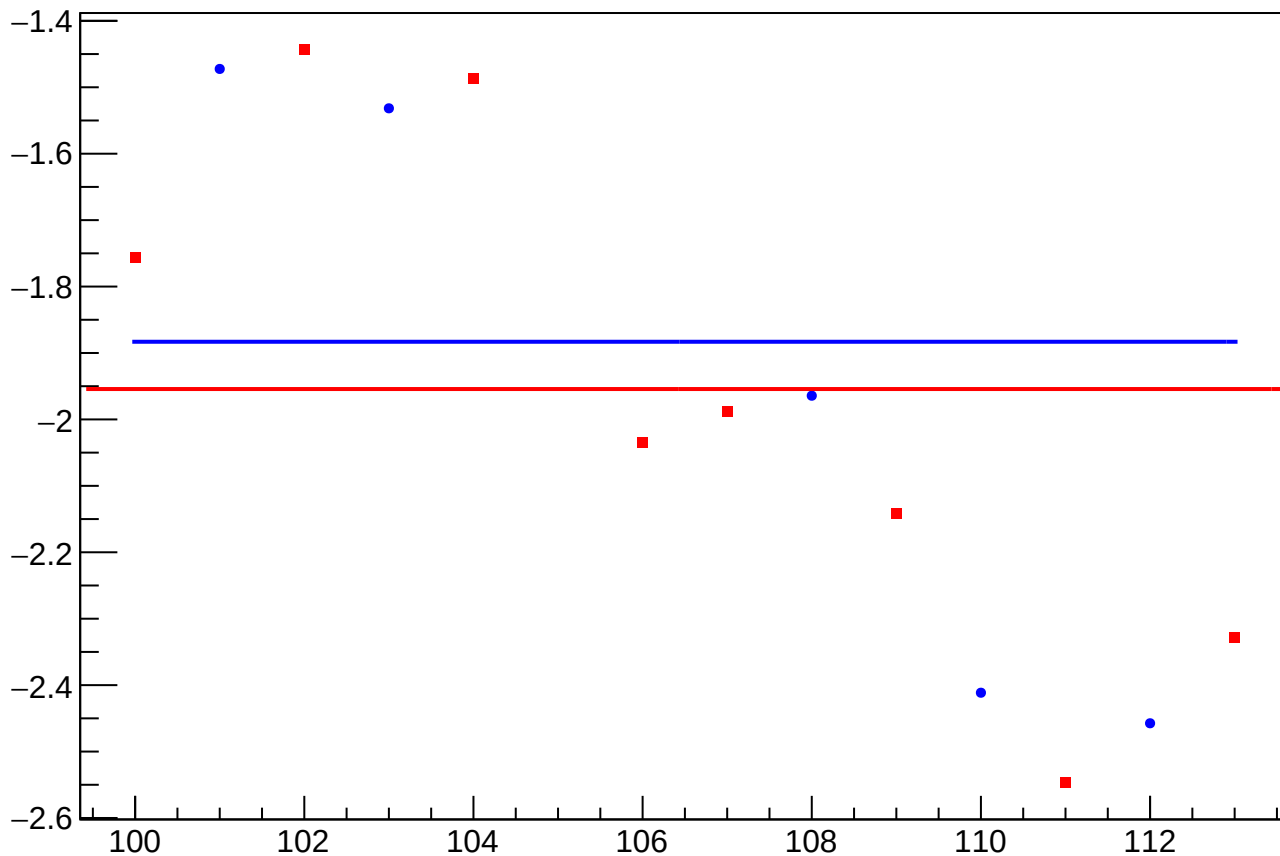
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 618186.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02Y\_mean vs Slug



Right In: -1.883+/-0.000  $\chi^2/\text{NDF}$ : 13851975659.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.954+/-0.000  $\chi^2/\text{NDF}$ : 15598566535.5/7

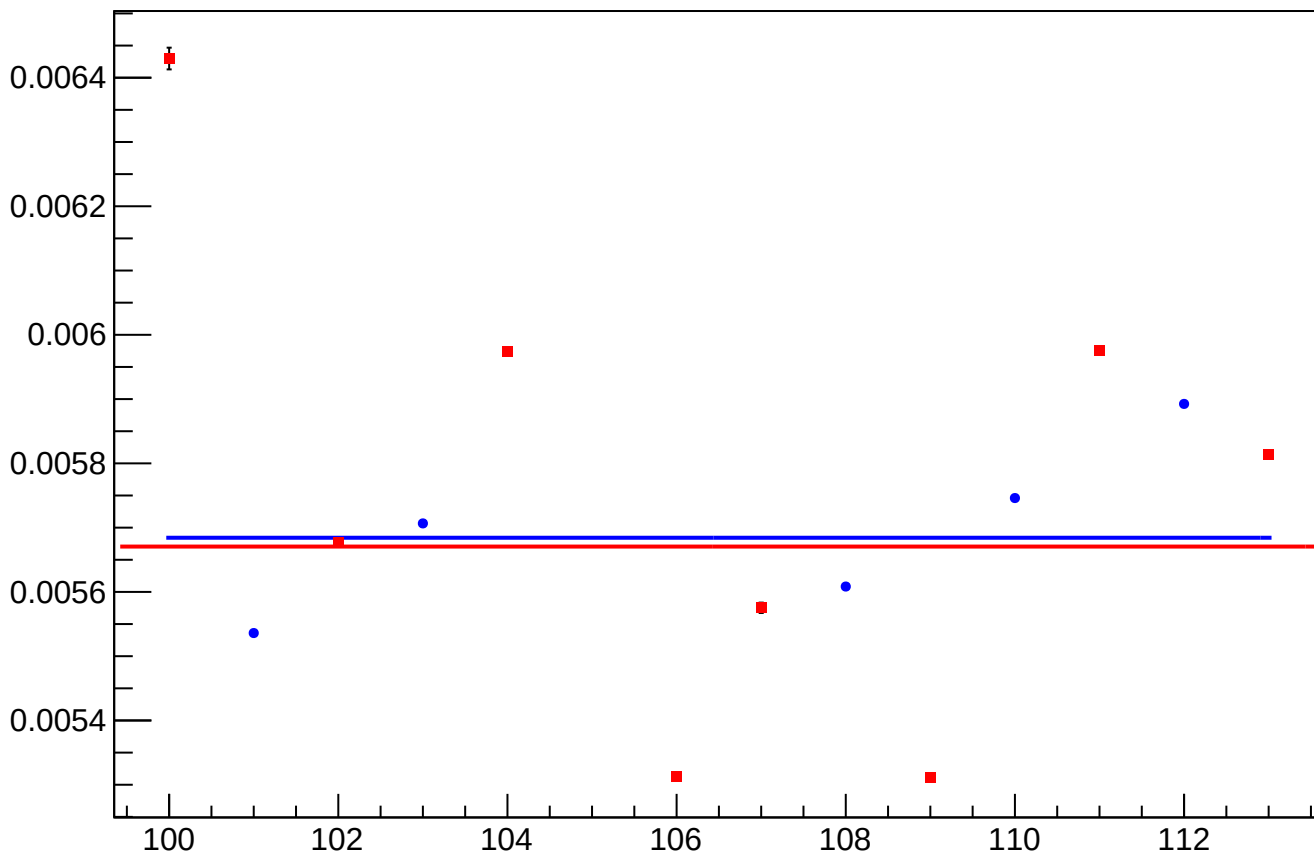
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.923+/-0.000  $\chi^2/\text{NDF}$ : 29673609588.4/8

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02Y\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2429.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 15576.0/7

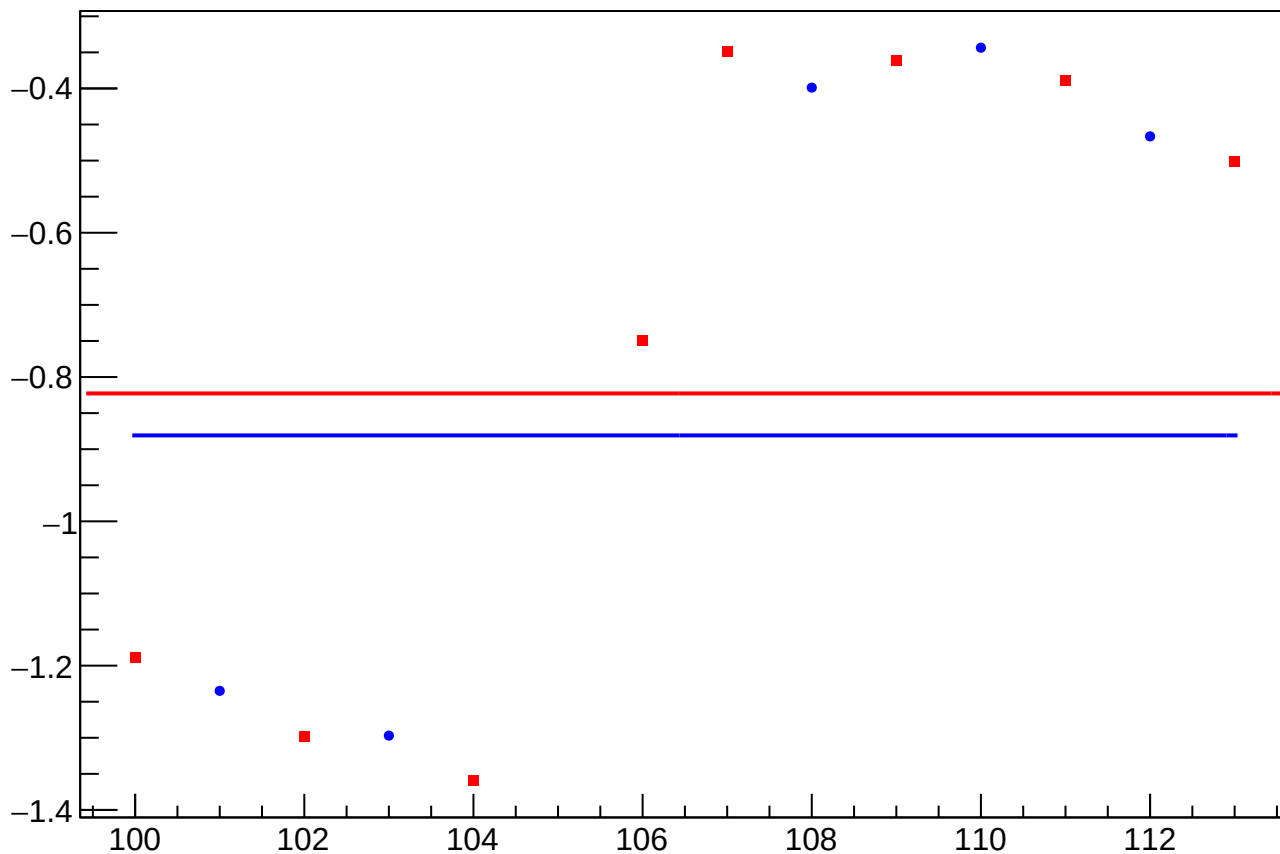
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 18021.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01X\_mean vs Slug



Right In: -0.881+/-0.000  $\chi^2/\text{NDF}$ : 3963806741.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

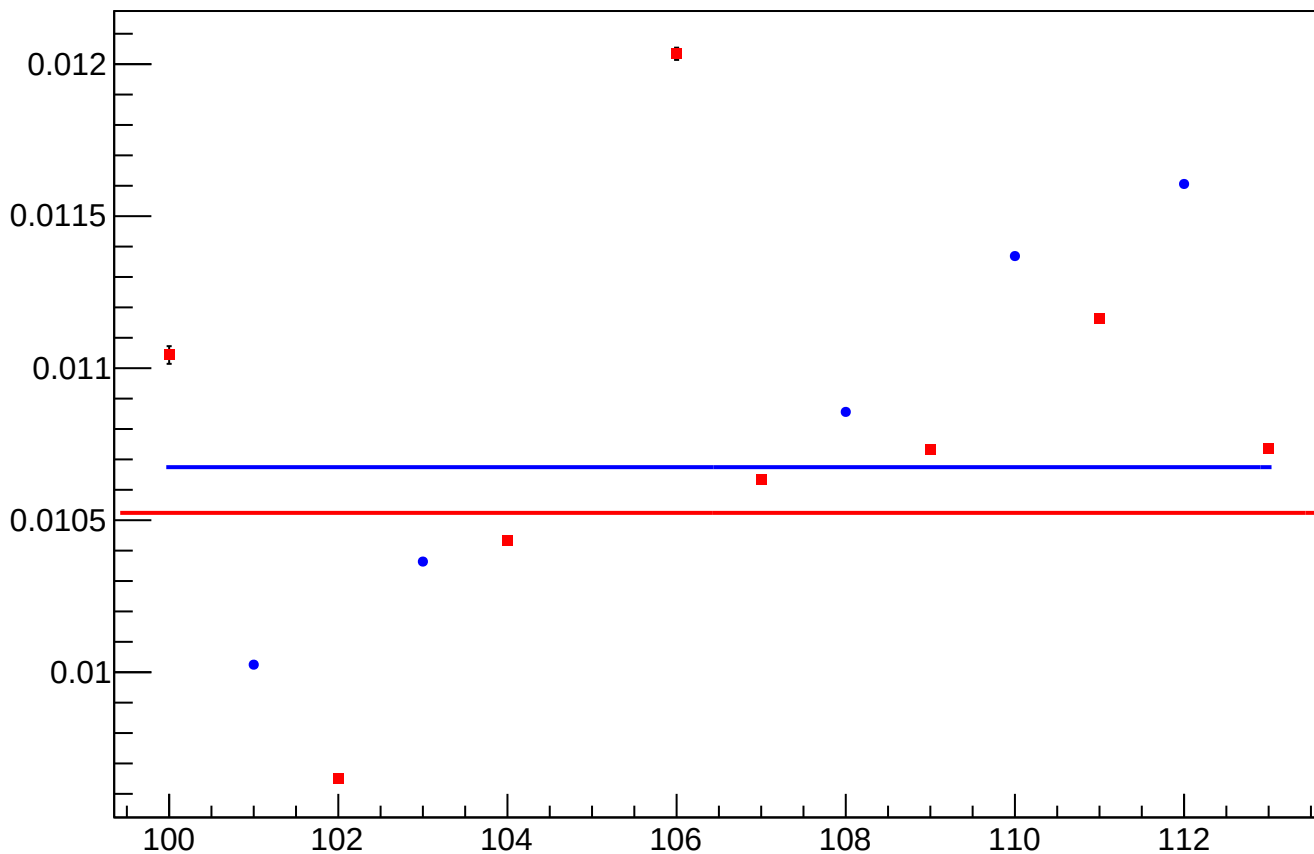
Right Out: -0.823+/-0.000  $\chi^2/\text{NDF}$ : 5575656274.1/7

All: -0.848+/-0.000  $\chi^2/\text{NDF}$ : 9580771356.4/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 15781.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 20364.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

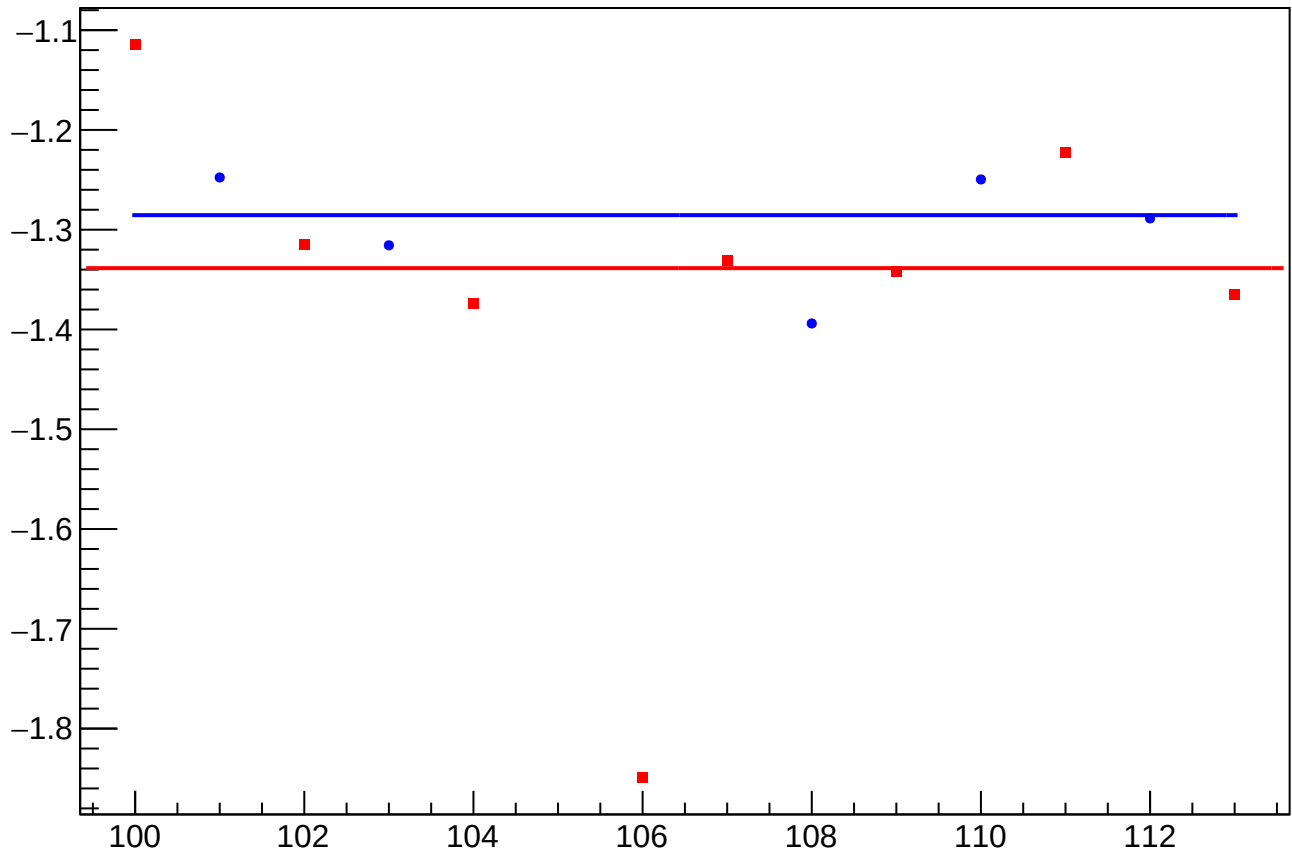
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 36697.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i01Y\_mean vs Slug



Right In: -1.285+/-0.000  $\chi^2/\text{NDF}$ : 948716397.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.339+/-0.000  $\chi^2/\text{NDF}$ : 5538913820.6/7

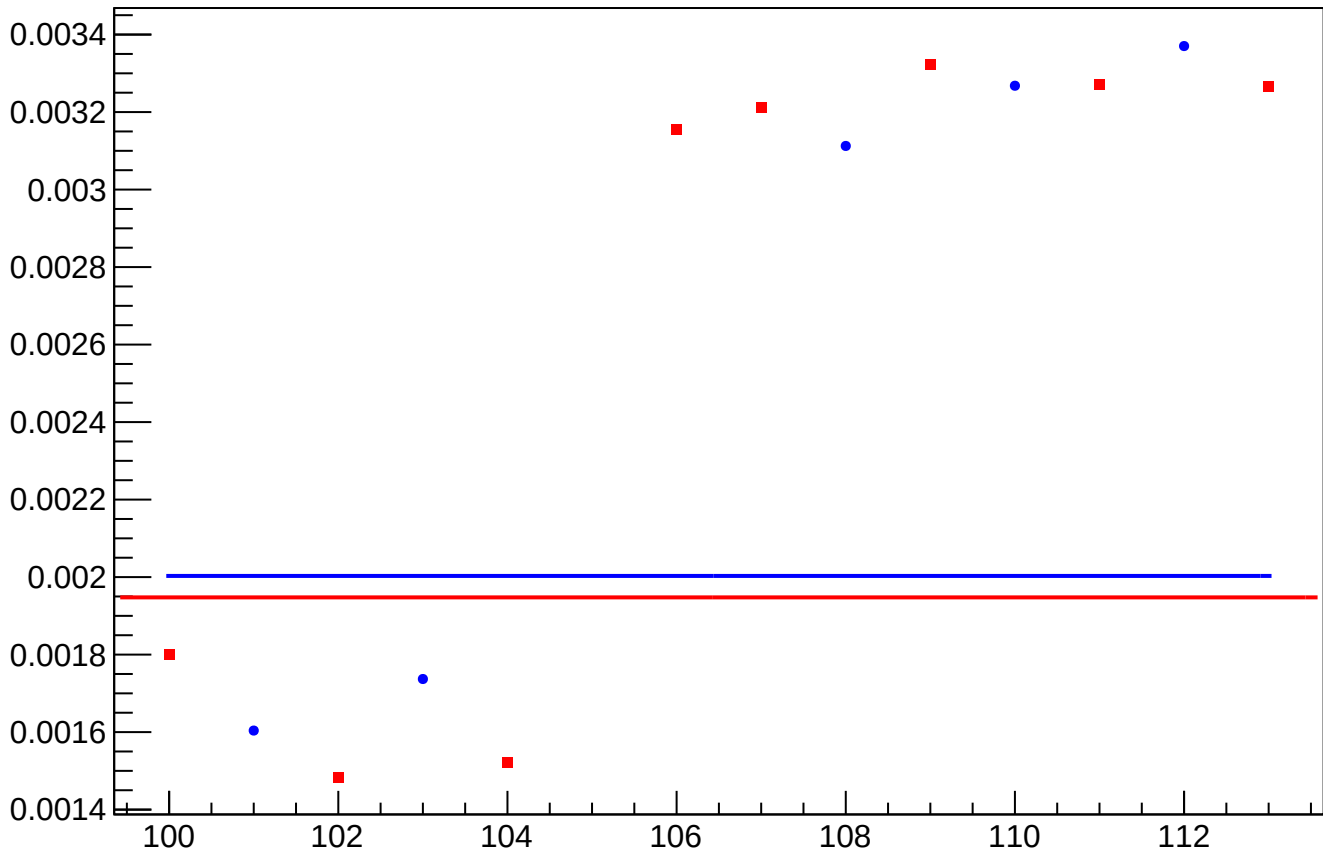
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.315+/-0.000  $\chi^2/\text{NDF}$ : 7281918959.6/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01Y\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 432103.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 744300.7/7

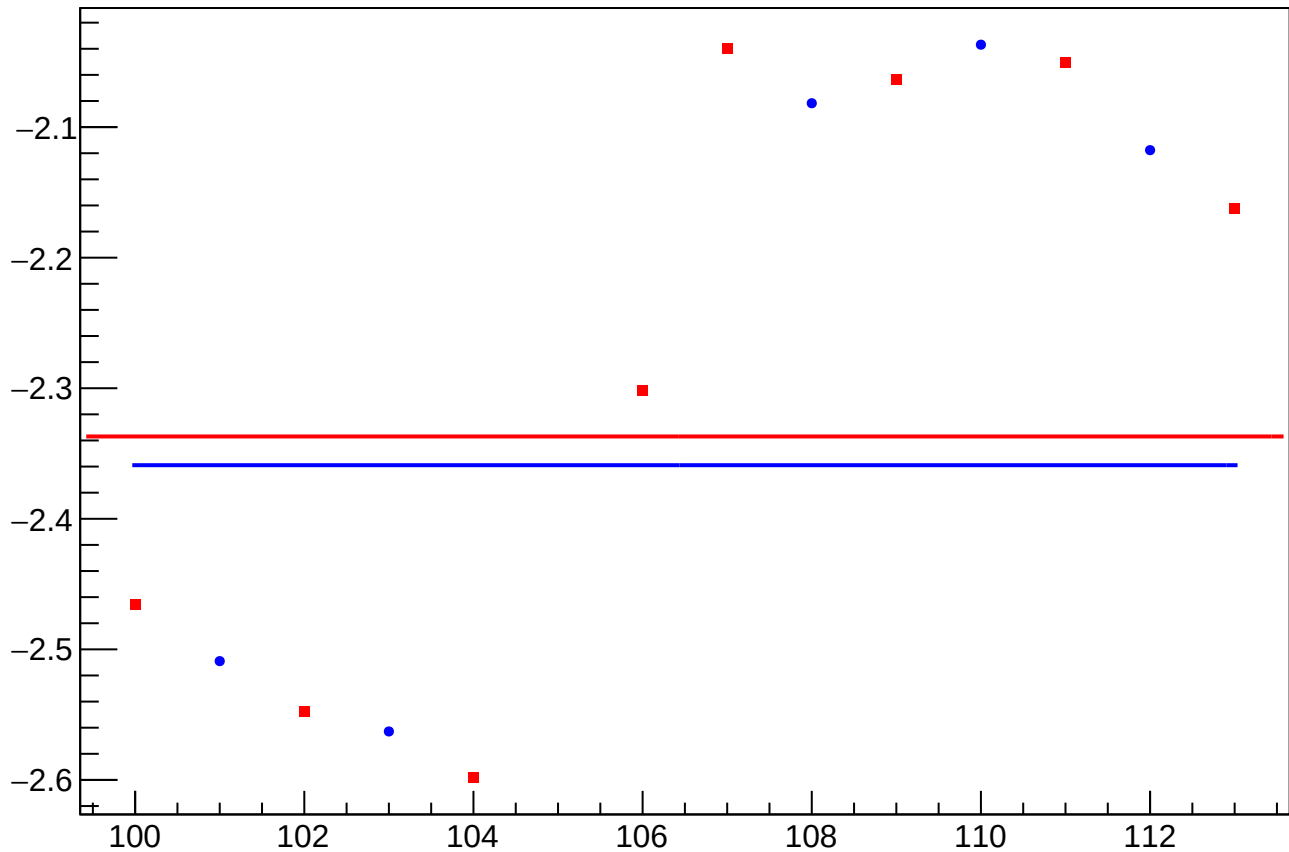
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1178131.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aX\_mean vs Slug



Right In: -2.359+/-0.000  $\chi^2/\text{NDF}$ : 3053847069.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.337+/-0.000  $\chi^2/\text{NDF}$ : 4428820224.1/7

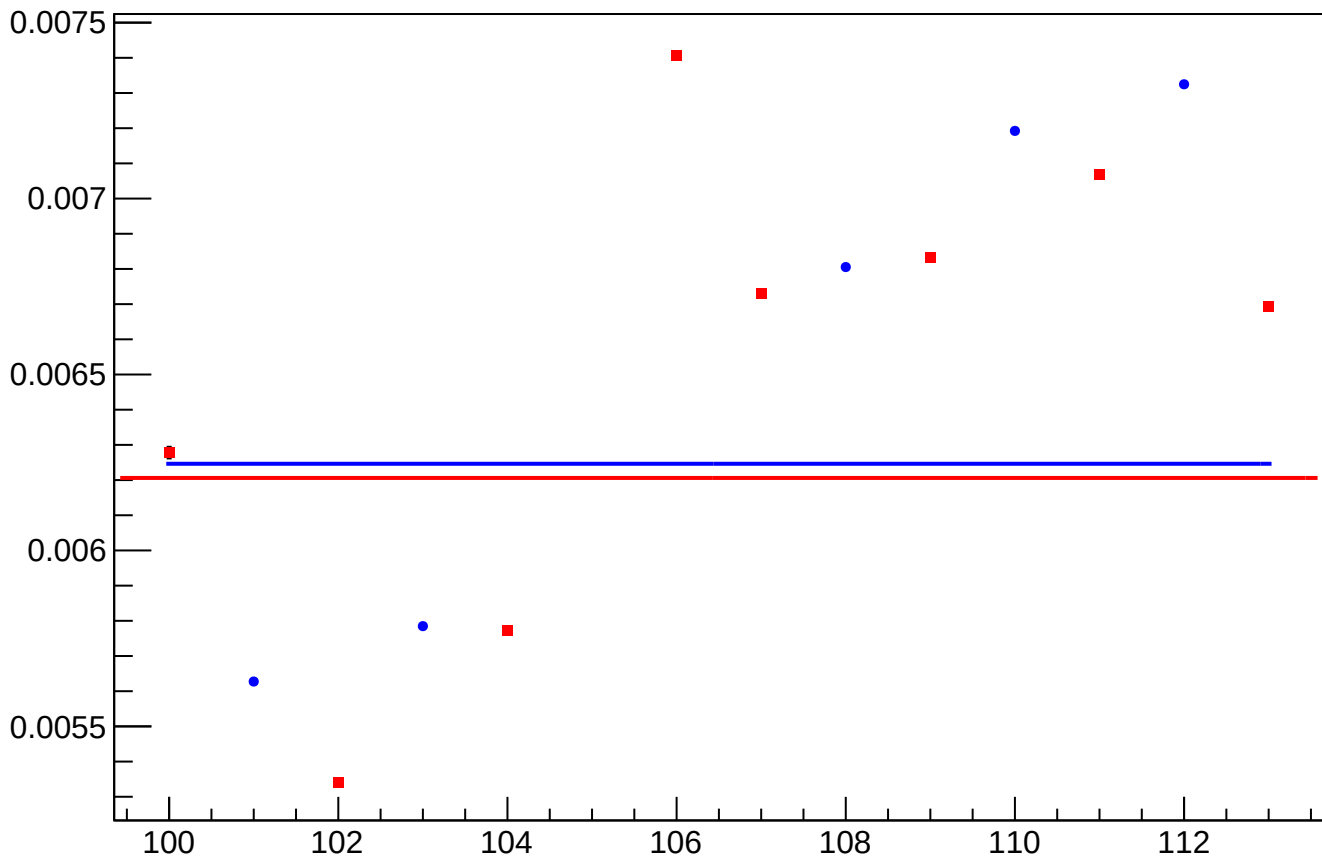
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.347+/-0.000  $\chi^2/\text{NDF}$ : 7499457218.0/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aX\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 61444.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 78514.1/7

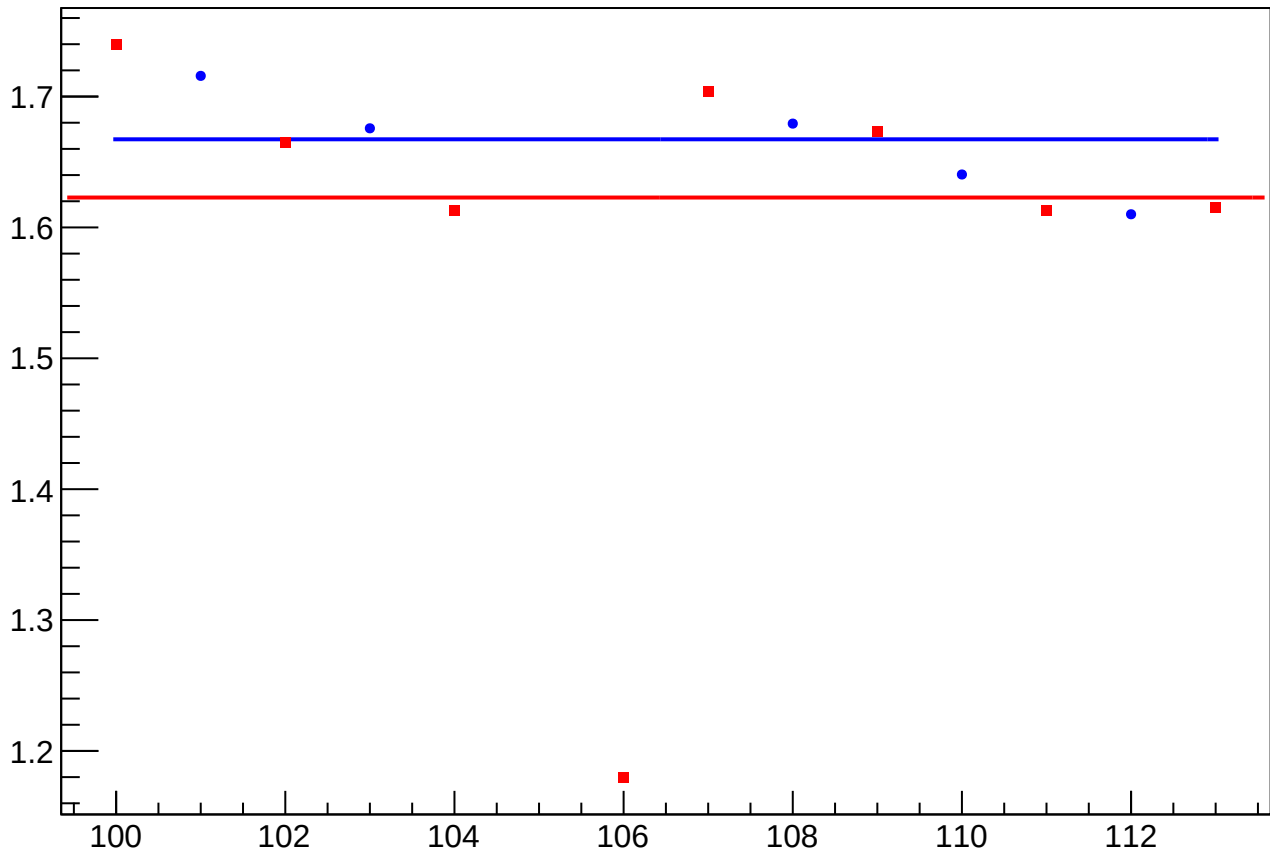
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 140070.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aY\_mean vs Slug



Right In: 1.667 $\pm$ 0.000  $\chi^2$ /NDF: 662395777.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.623 $\pm$ 0.000  $\chi^2$ /NDF: 7599813856.5/7

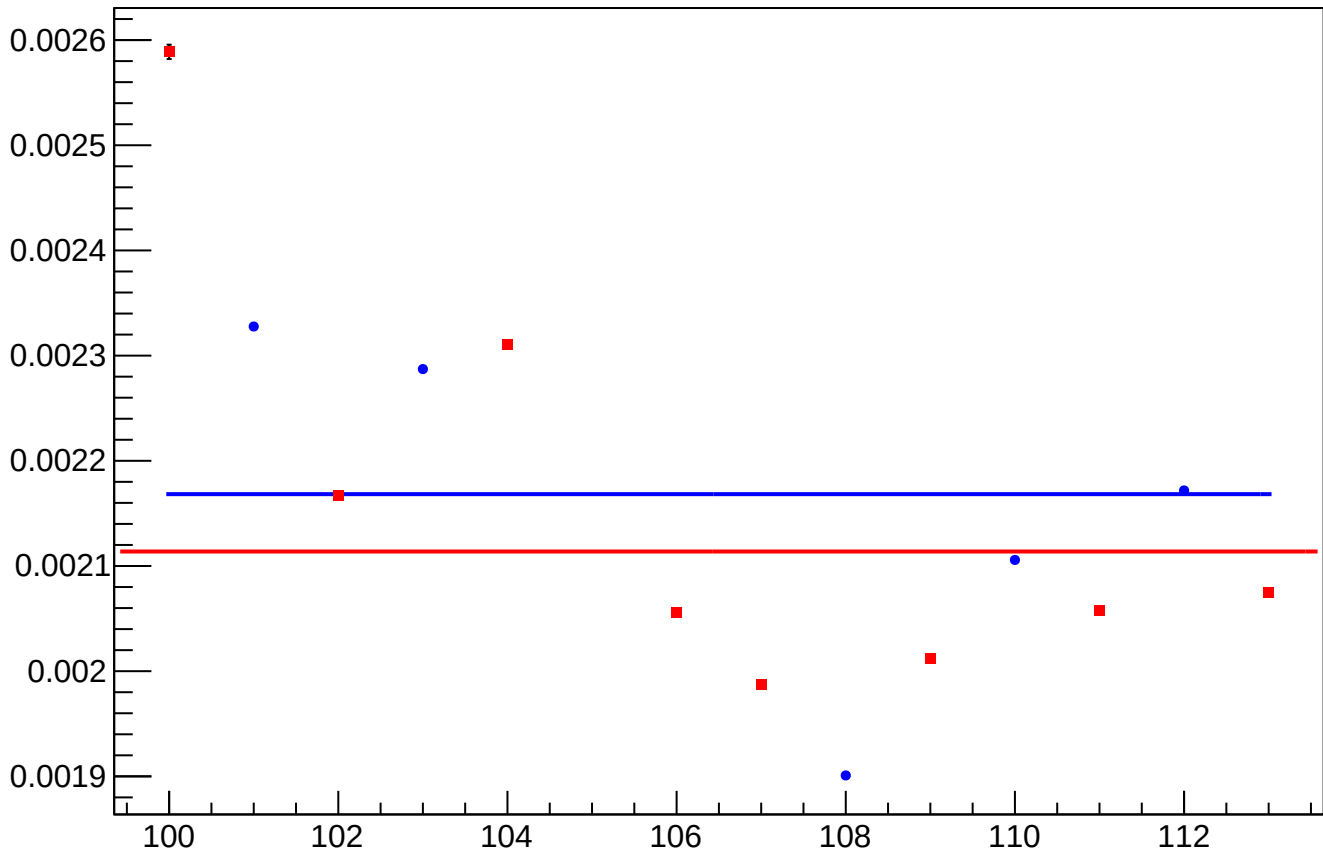
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.642 $\pm$ 0.000  $\chi^2$ /NDF: 8819430448.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i01aY\_rms vs Slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 23715.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 18189.9/7

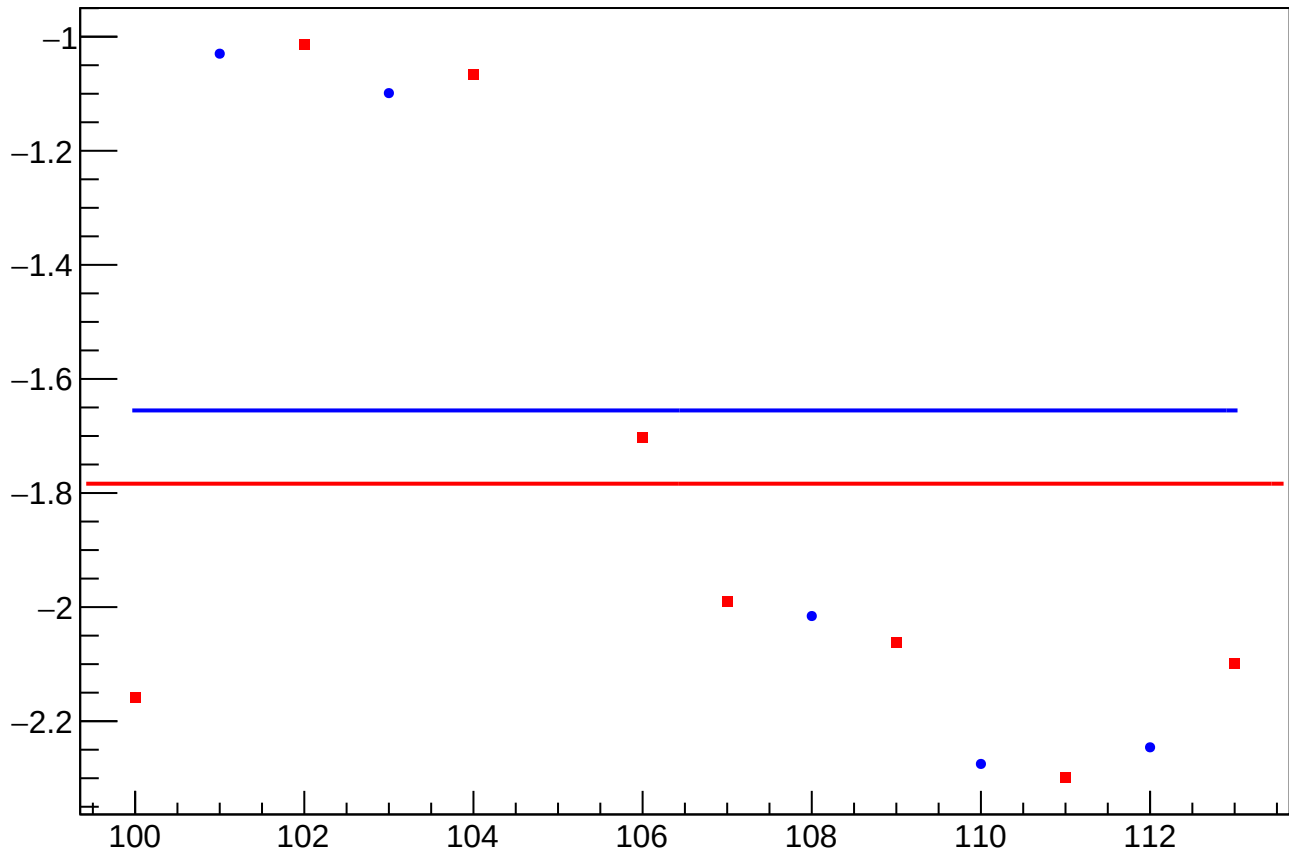
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 43579.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l01X\_mean vs Slug



Right In: -1.655+/-0.000  $\chi^2/\text{NDF}$ : 15689875337.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.784+/-0.000  $\chi^2/\text{NDF}$ : 18504835161.6/7

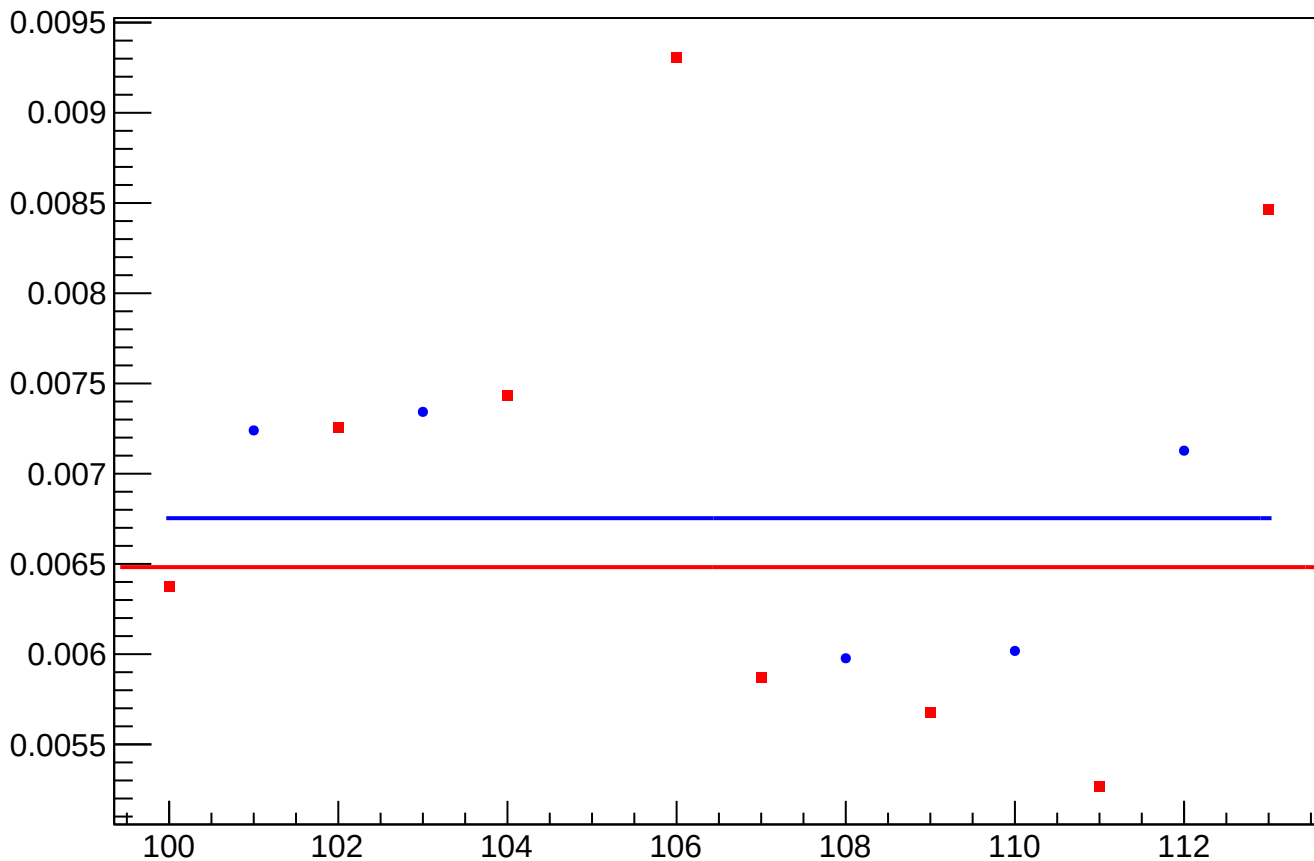
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.729+/-0.000  $\chi^2/\text{NDF}$ : 34677877306.2/11

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l01X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 38580.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 188305.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

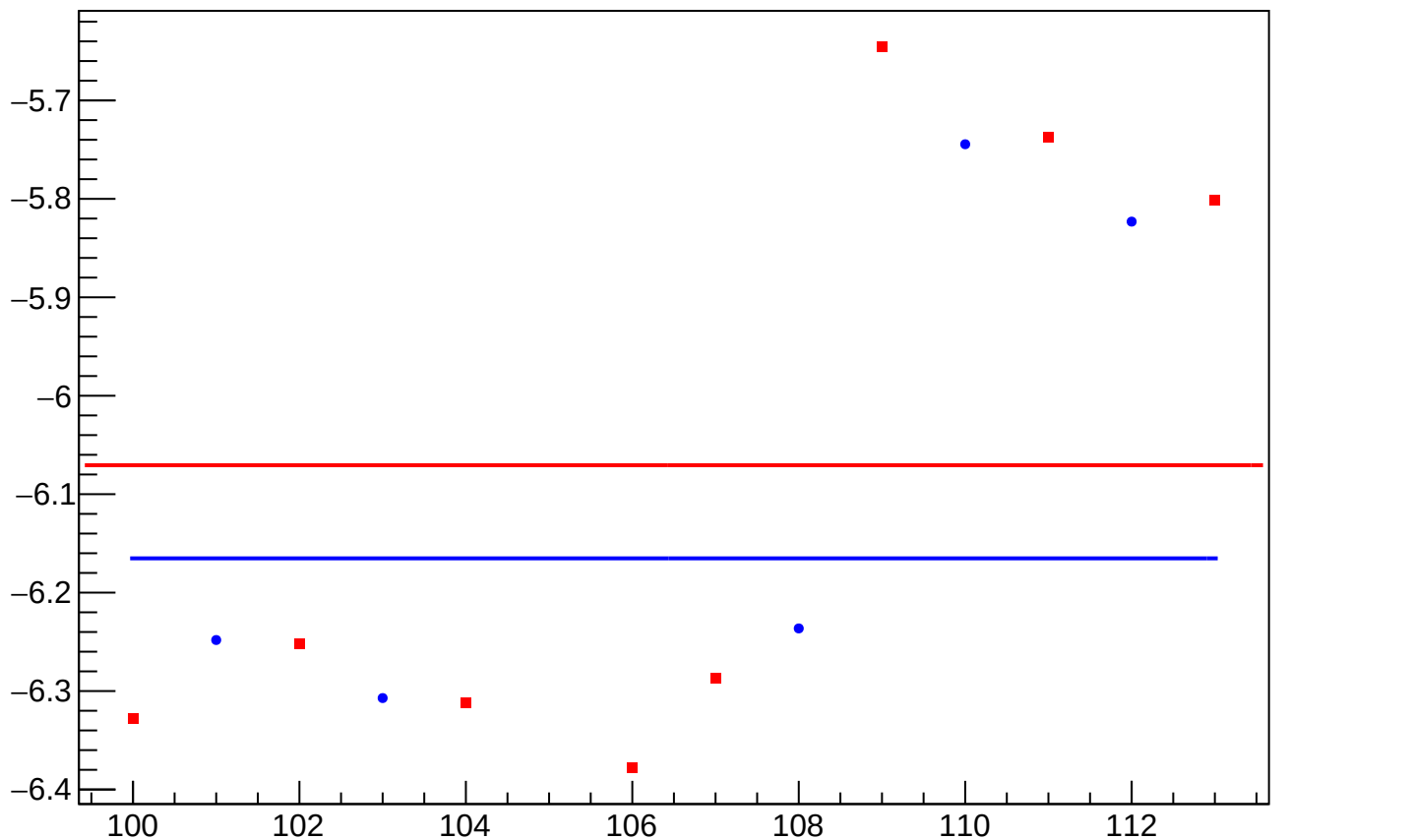
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 231196.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l01Y\_mean vs Slug



Right In: -6.165+/-0.000  $\chi^2/\text{NDF}$ : 2812995841.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.071+/-0.000  $\chi^2/\text{NDF}$ : 7614252527.5/7

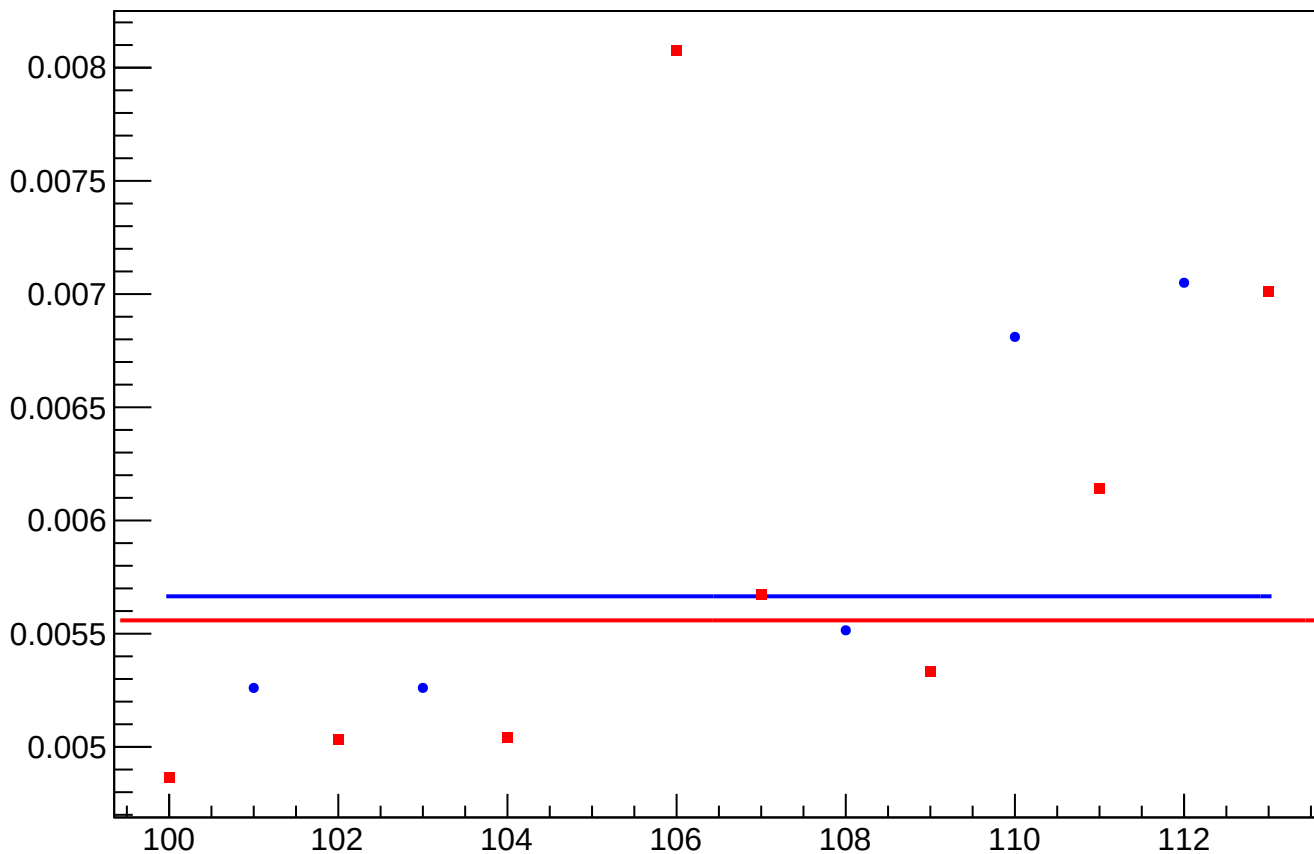
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.111+/-0.000  $\chi^2/\text{NDF}$ : 10789028320.5/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l01Y\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 65073.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 121911.7/7

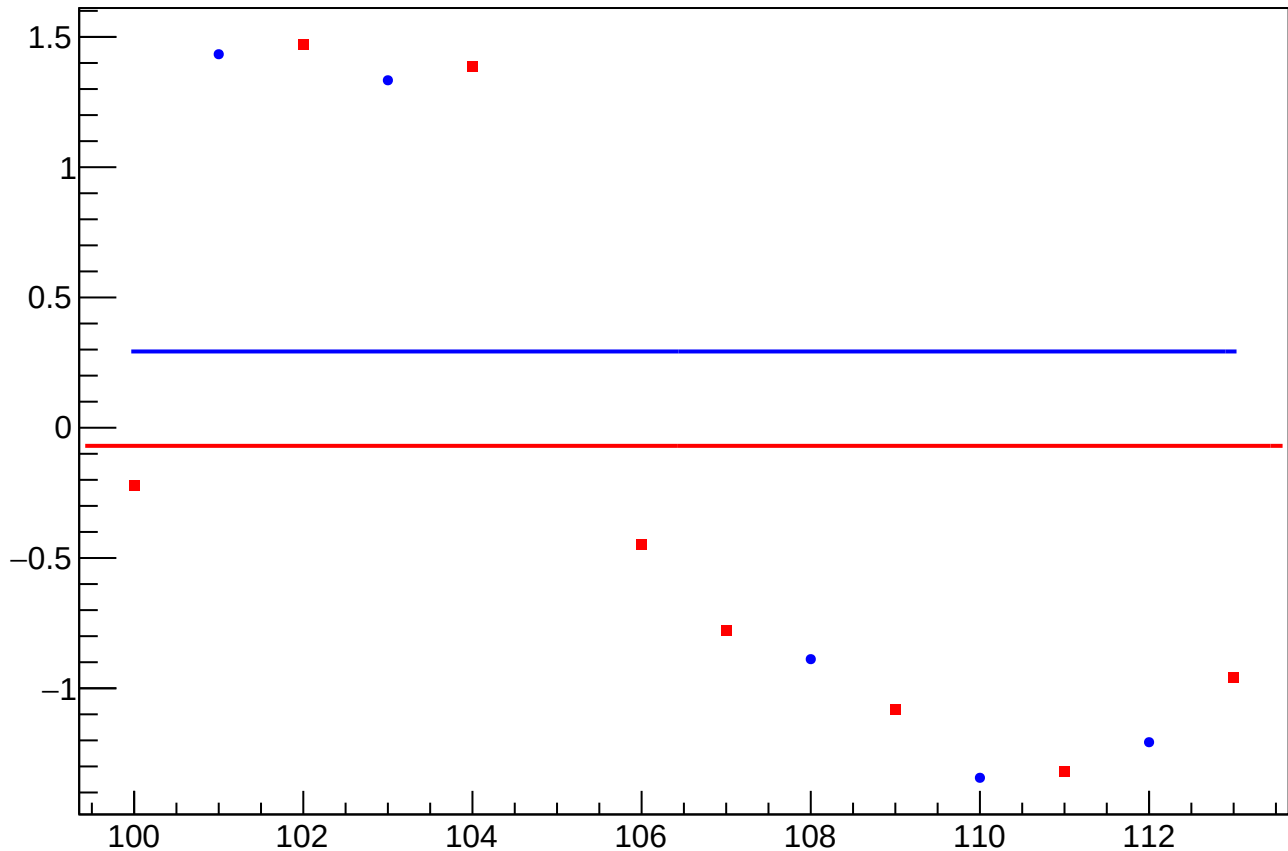
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 187897.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02X\_mean vs Slug



Right In: 0.293+/-0.000  $\chi^2/\text{NDF}$ : 15577006546.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

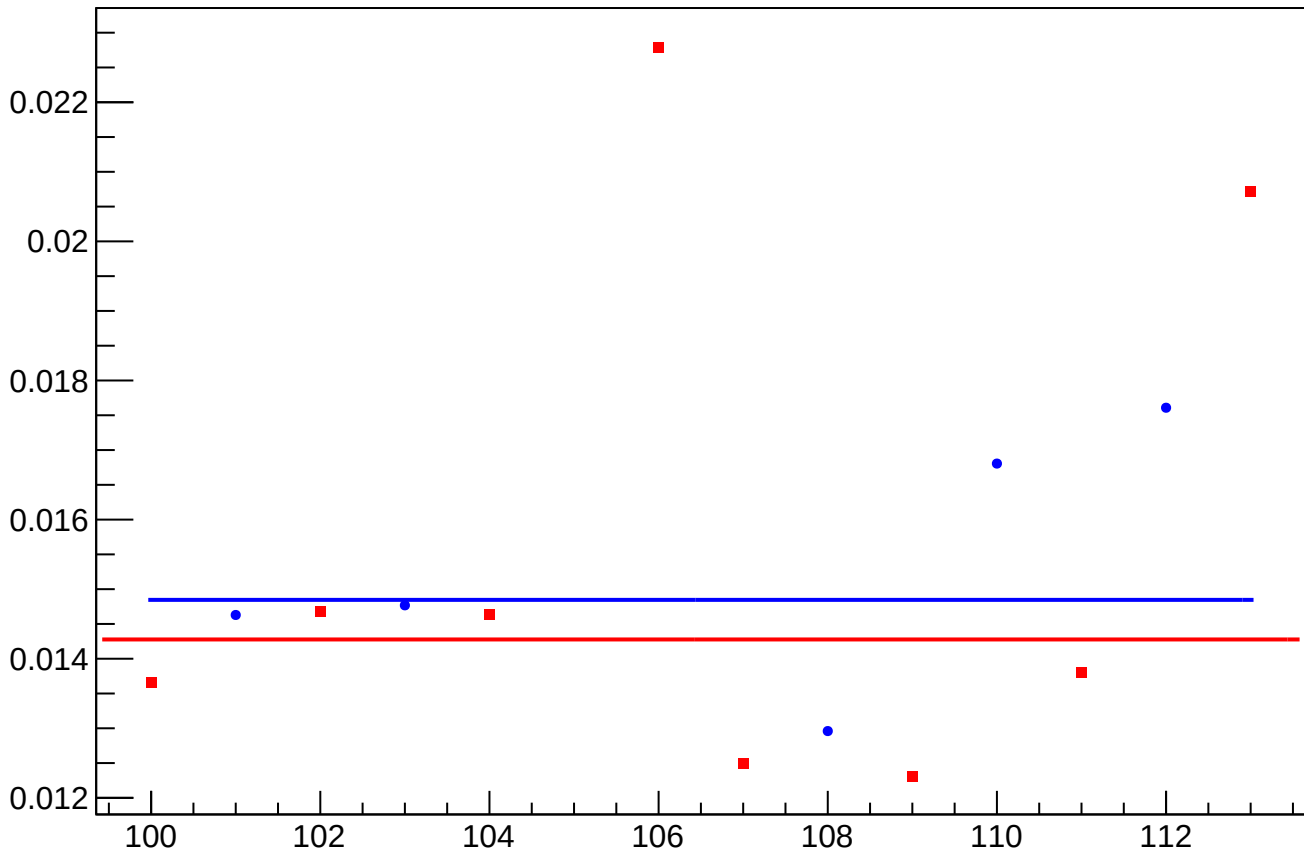
Right Out: -0.070+/-0.000  $\chi^2/\text{NDF}$ : 20508582629.4/7

All: 0.084+/-0.000  $\chi^2/\text{NDF}$ : 36863046599.4/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02X\_rms vs Slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 42454.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 160426.9/7

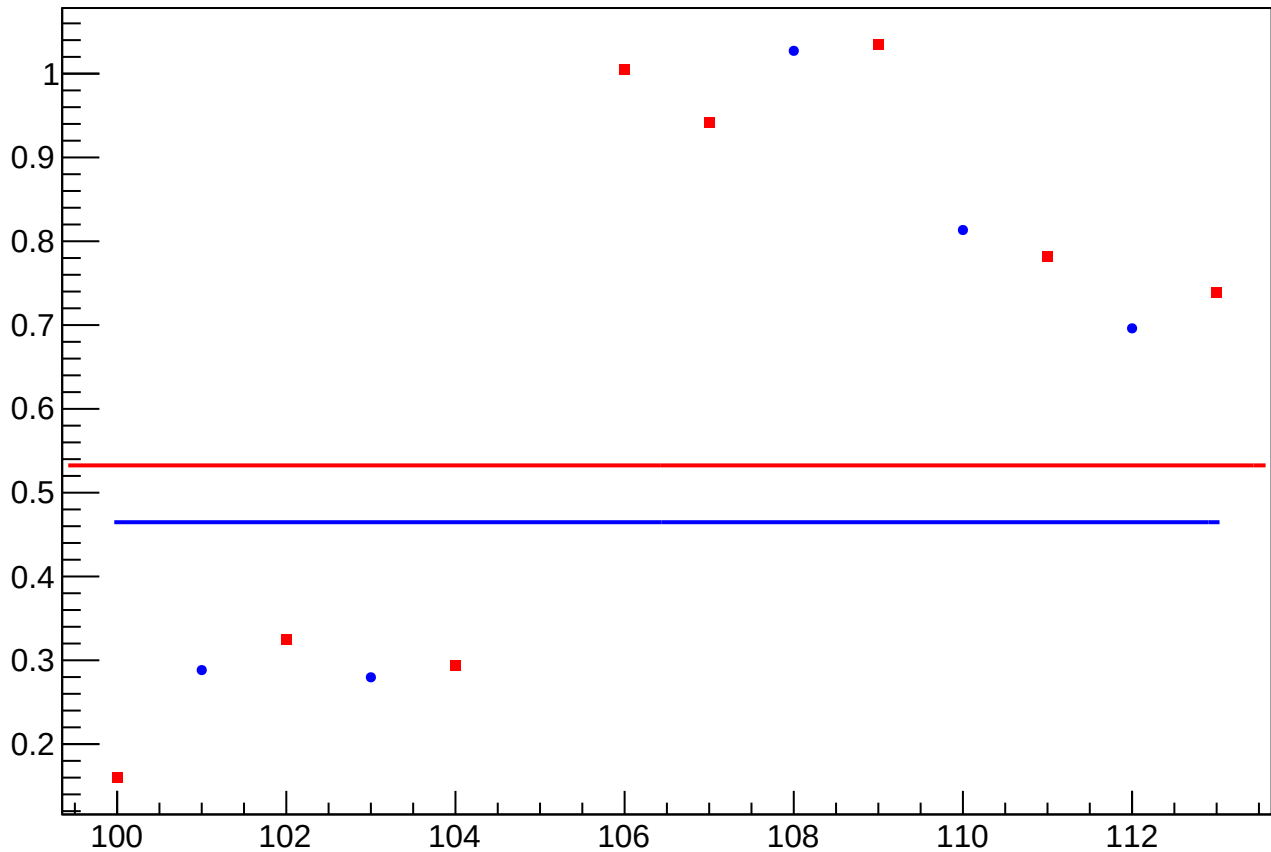
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 206720.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02Y\_mean vs Slug



Right In: 0.465 $\pm$ 0.000  $\chi^2$ /NDF: 3179083816.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.533 $\pm$ 0.000  $\chi^2$ /NDF: 4432589236.1/7

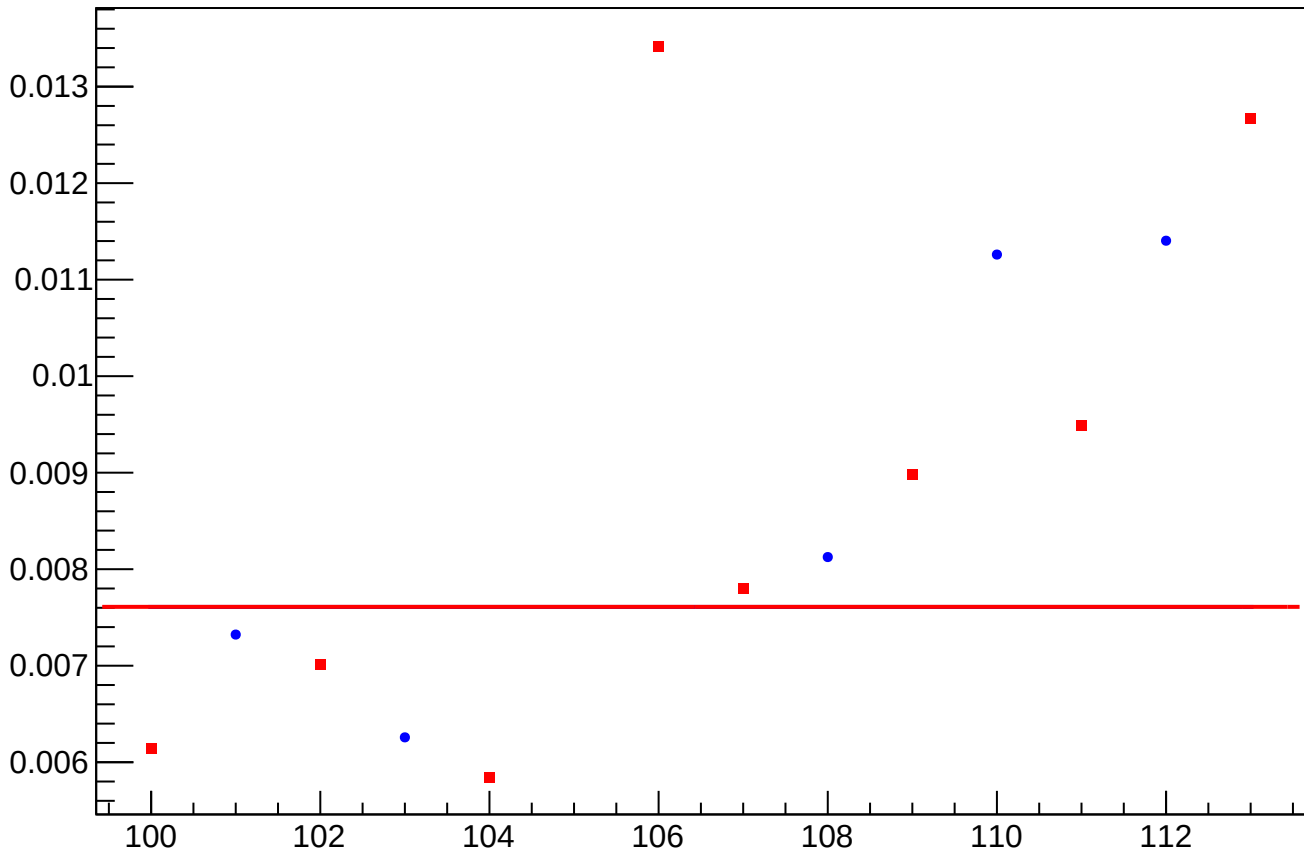
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.502 $\pm$ 0.000  $\chi^2$ /NDF: 7708041764.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l02Y\_rms vs Slug



Right In: 0.008 $\pm$ 0.000  $\chi^2$ /NDF: 210717.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.008 $\pm$ 0.000  $\chi^2$ /NDF: 351716.9/7

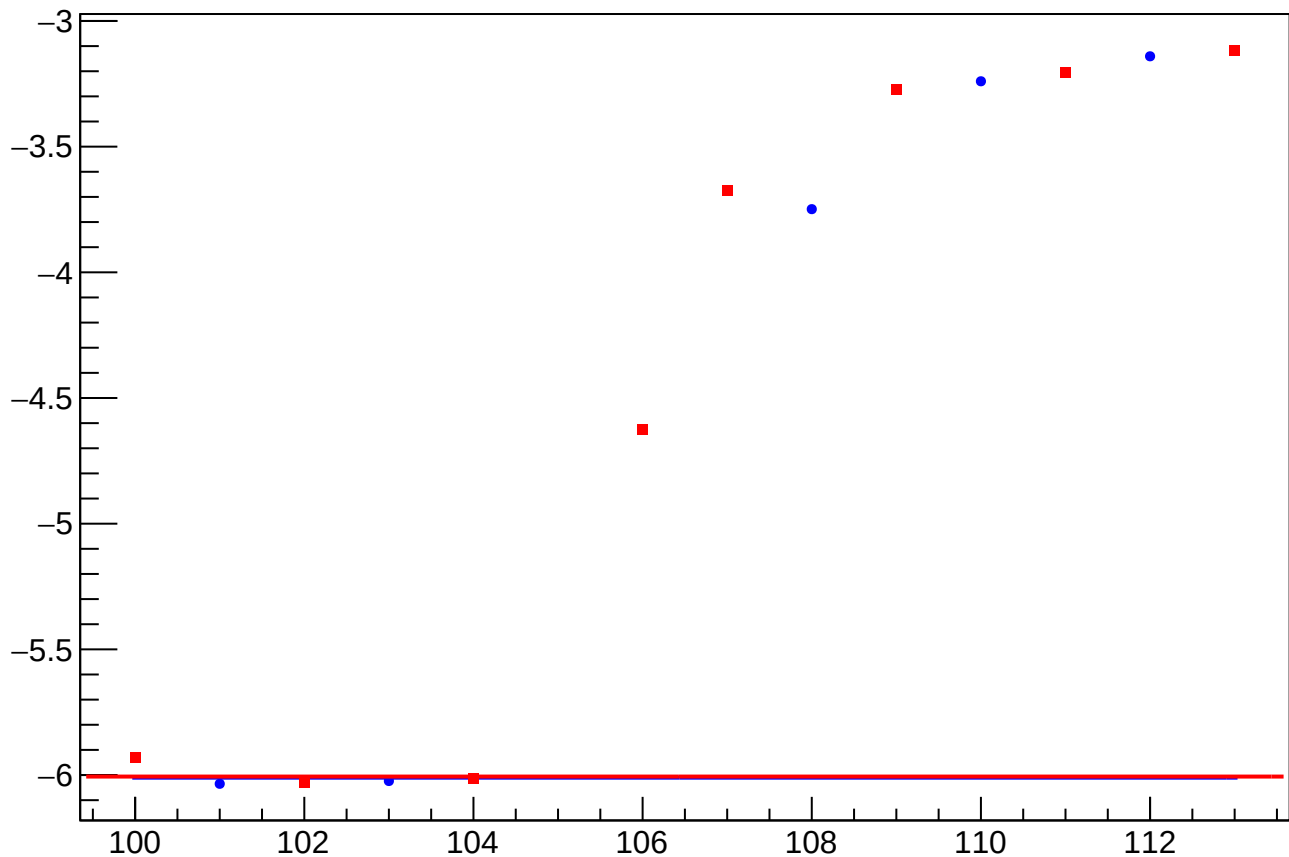
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.000  $\chi^2$ /NDF: 562434.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l03X\_mean vs Slug



Right In: -6.010+/-0.000  $\chi^2/\text{NDF}$ : 2244289307.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.006+/-0.000  $\chi^2/\text{NDF}$ : 1495628726.7/7

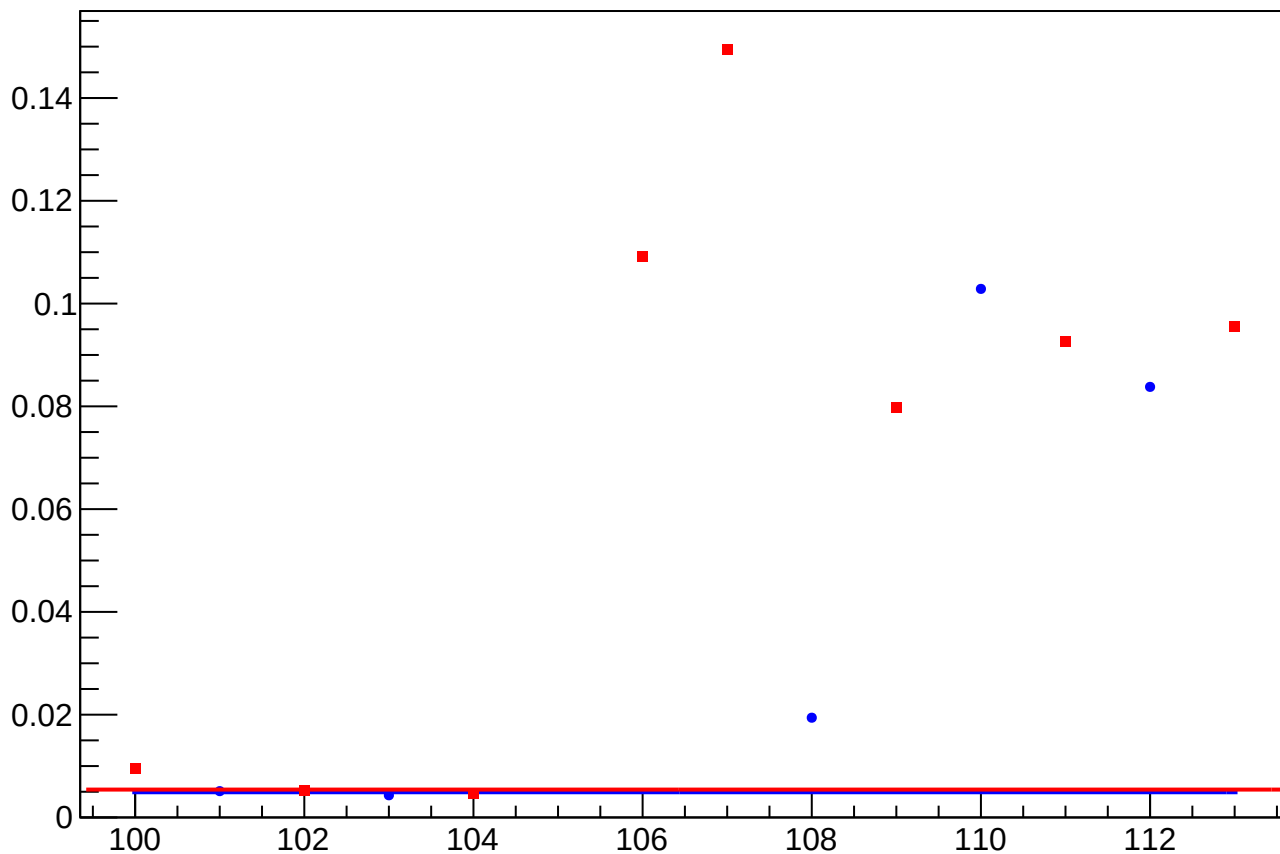
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.008+/-0.000  $\chi^2/\text{NDF}$ : 3740339221.2/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03X\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1570445.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 3397967.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

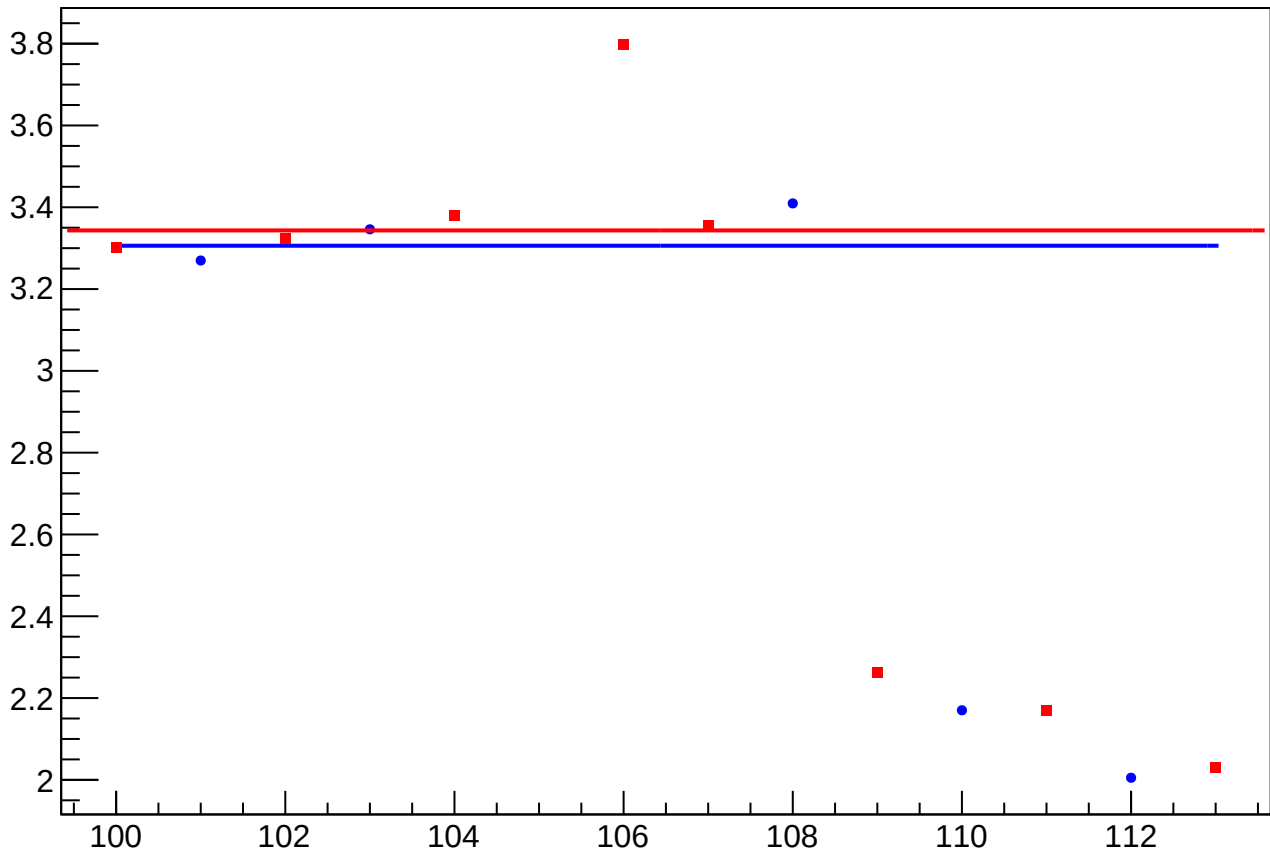
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 4980733.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l03Y\_mean vs Slug



Right In: 3.306 $\pm$ 0.000  $\chi^2$ /NDF: 190598509.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3.343 $\pm$ 0.000  $\chi^2$ /NDF: 260836385.0/7

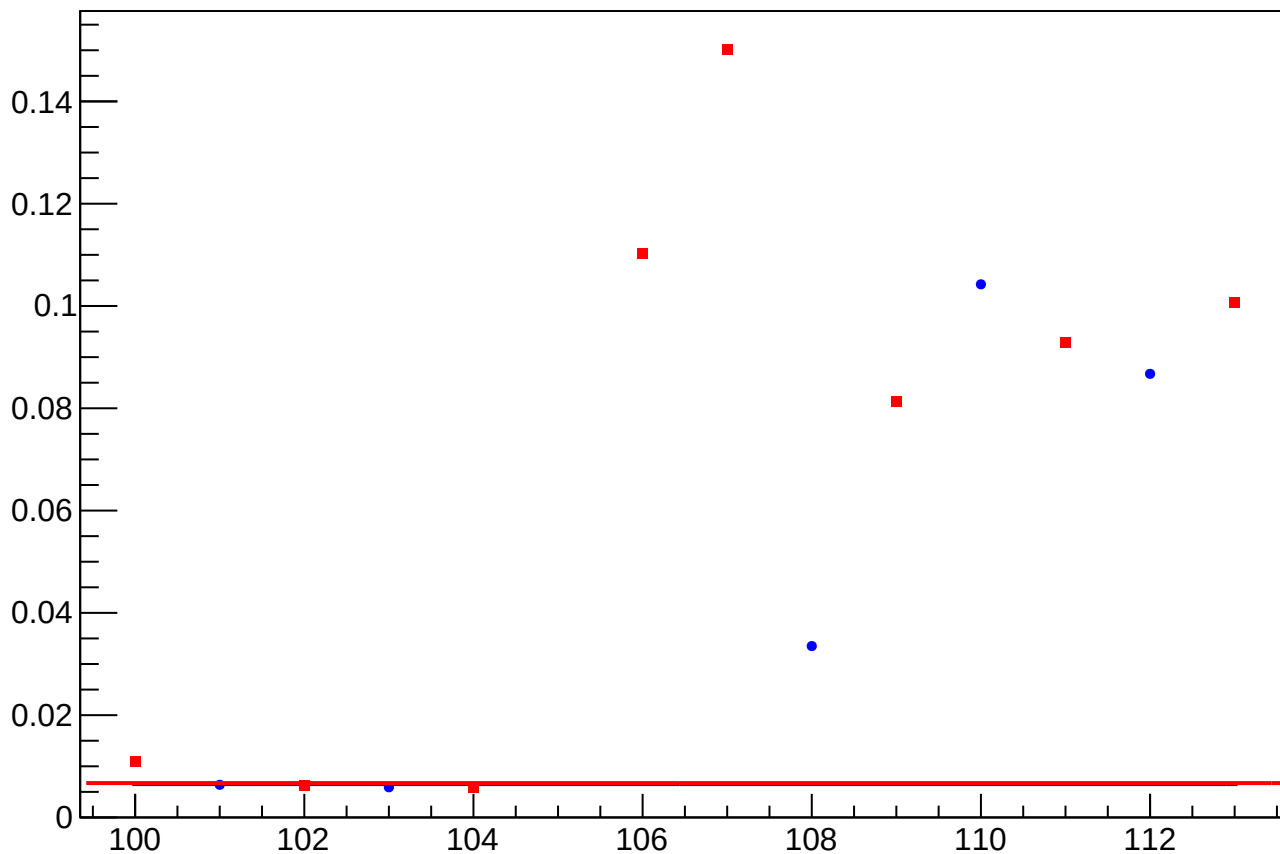
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.324 $\pm$ 0.000  $\chi^2$ /NDF: 472009241.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l03Y\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1606753.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 3298881.5/7

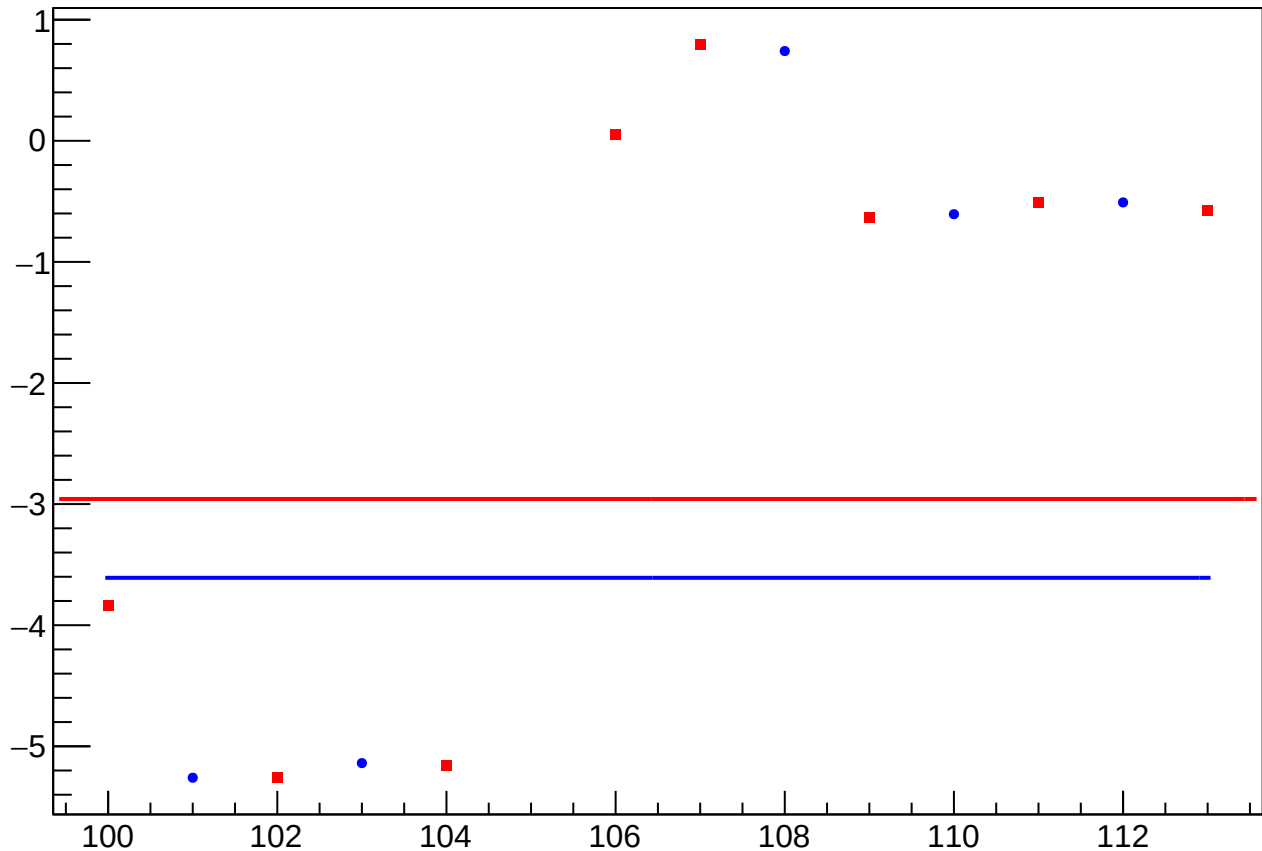
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 4906738.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04X\_mean vs Slug



Right In: -3.609+/-0.000  $\chi^2/\text{NDF}$ : 73566415239.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.958+/-0.000  $\chi^2/\text{NDF}$ : 93021293196.0/7

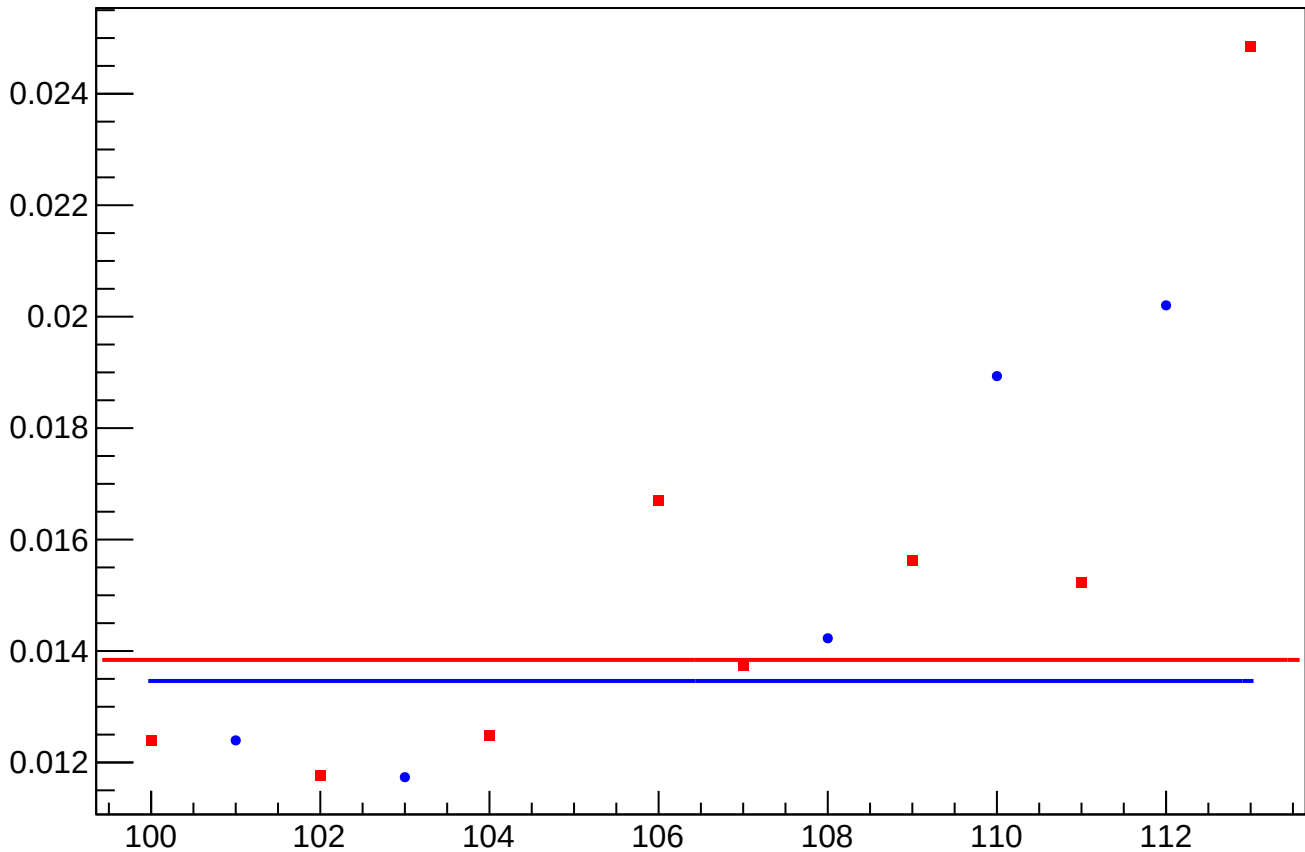
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.248+/-0.000  $\chi^2/\text{NDF}$ : 169432934075.8

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04X\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 167318.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 218543.1/7

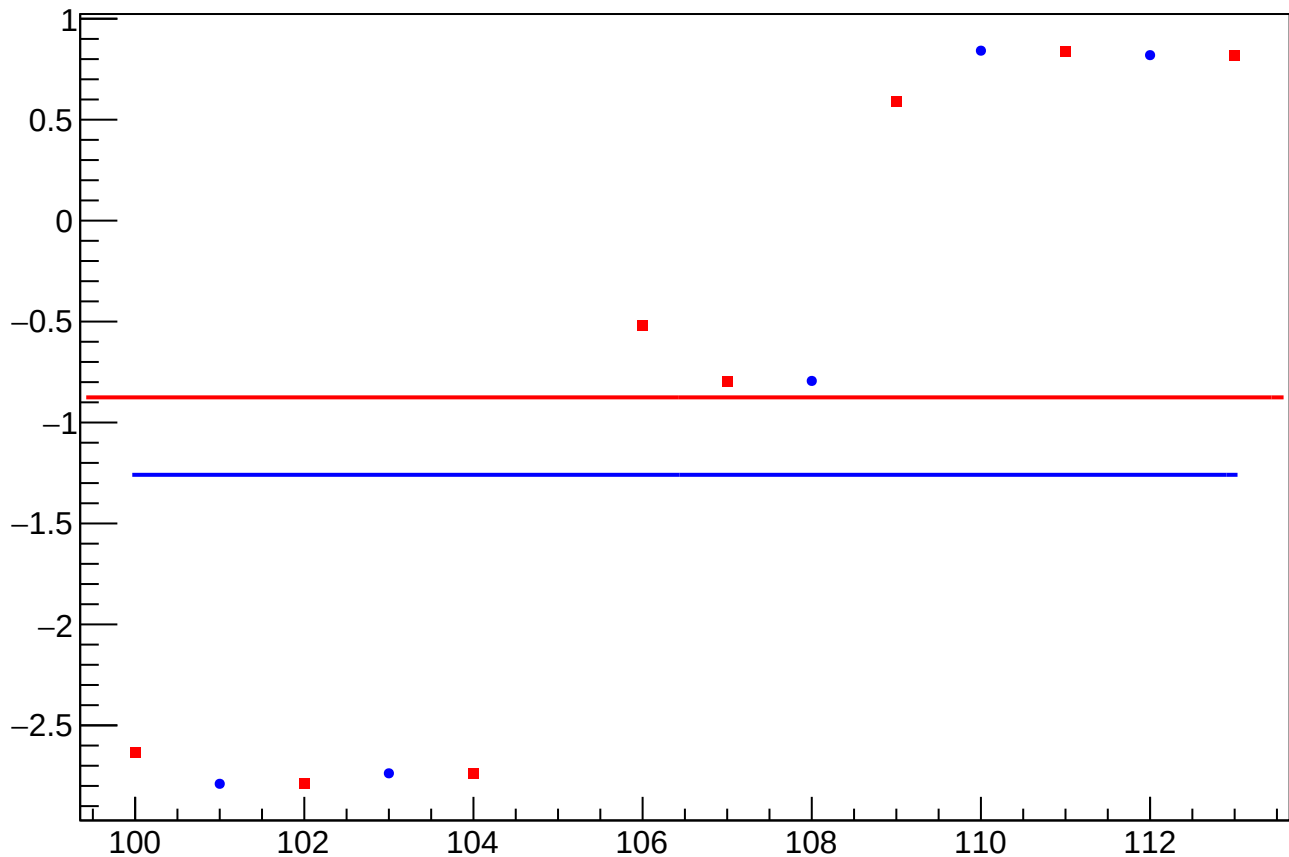
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 387779.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04Y\_mean vs Slug



Right In: -1.259+/-0.000  $\chi^2/\text{NDF}$ : 406627315621.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.875+/-0.000  $\chi^2/\text{NDF}$ : 582110080851.9/7

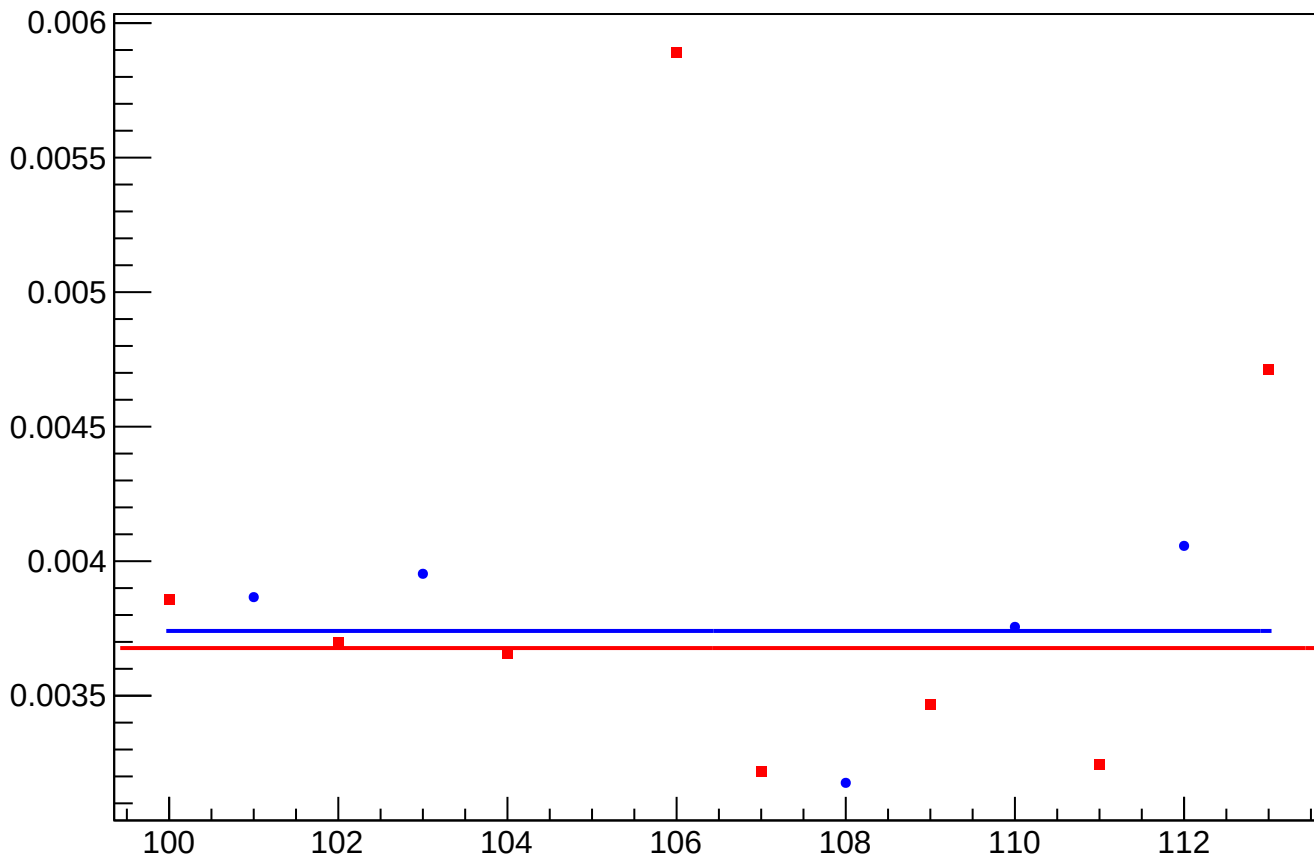
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.041+/-0.000  $\chi^2/\text{NDF}$ : 1002861962910

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04Y\_rms vs Slug



Right In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 34751.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 147121.1/7

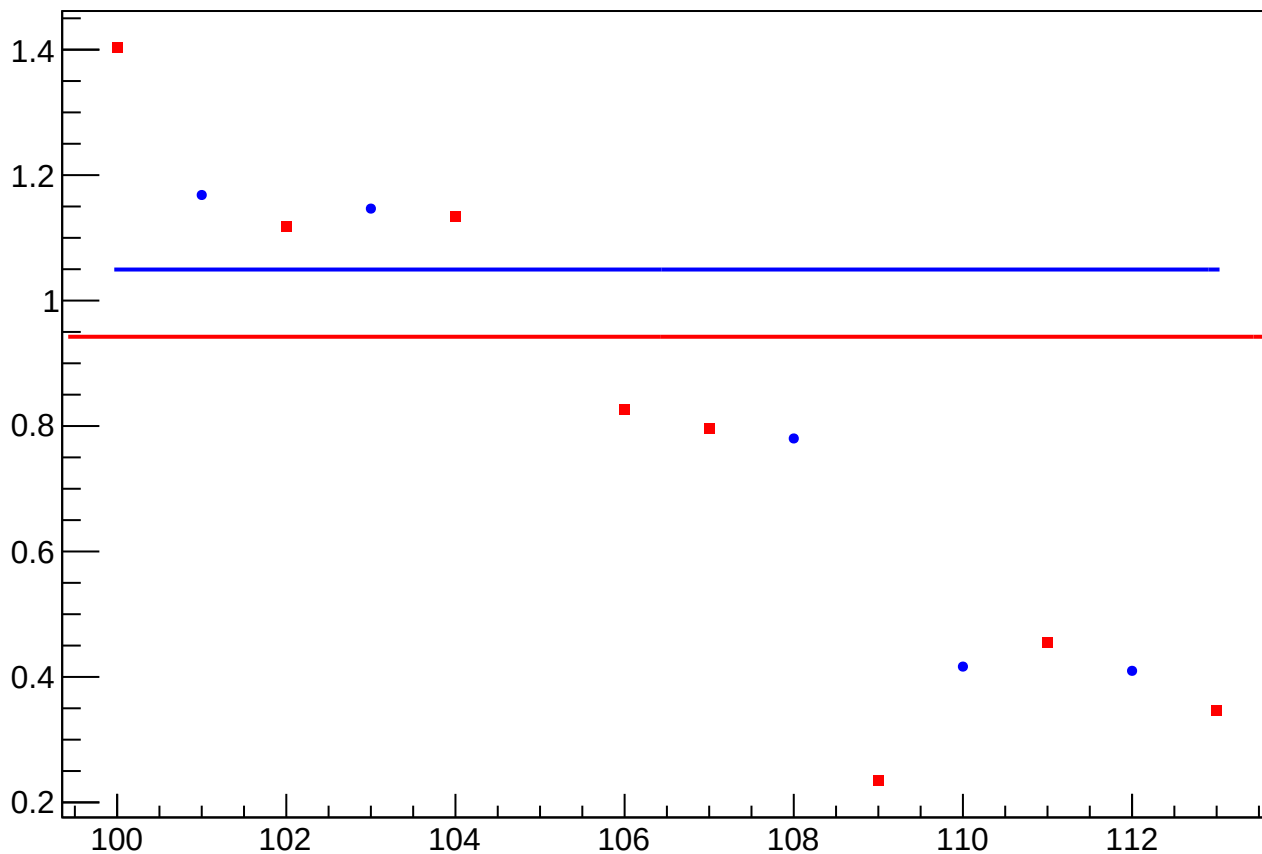
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 182650.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l05X\_mean vs Slug



Right In: 1.049 $\pm$ 0.000  $\chi^2$ /NDF: 4952007716.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.942 $\pm$ 0.000  $\chi^2$ /NDF: 10538190829.3/7

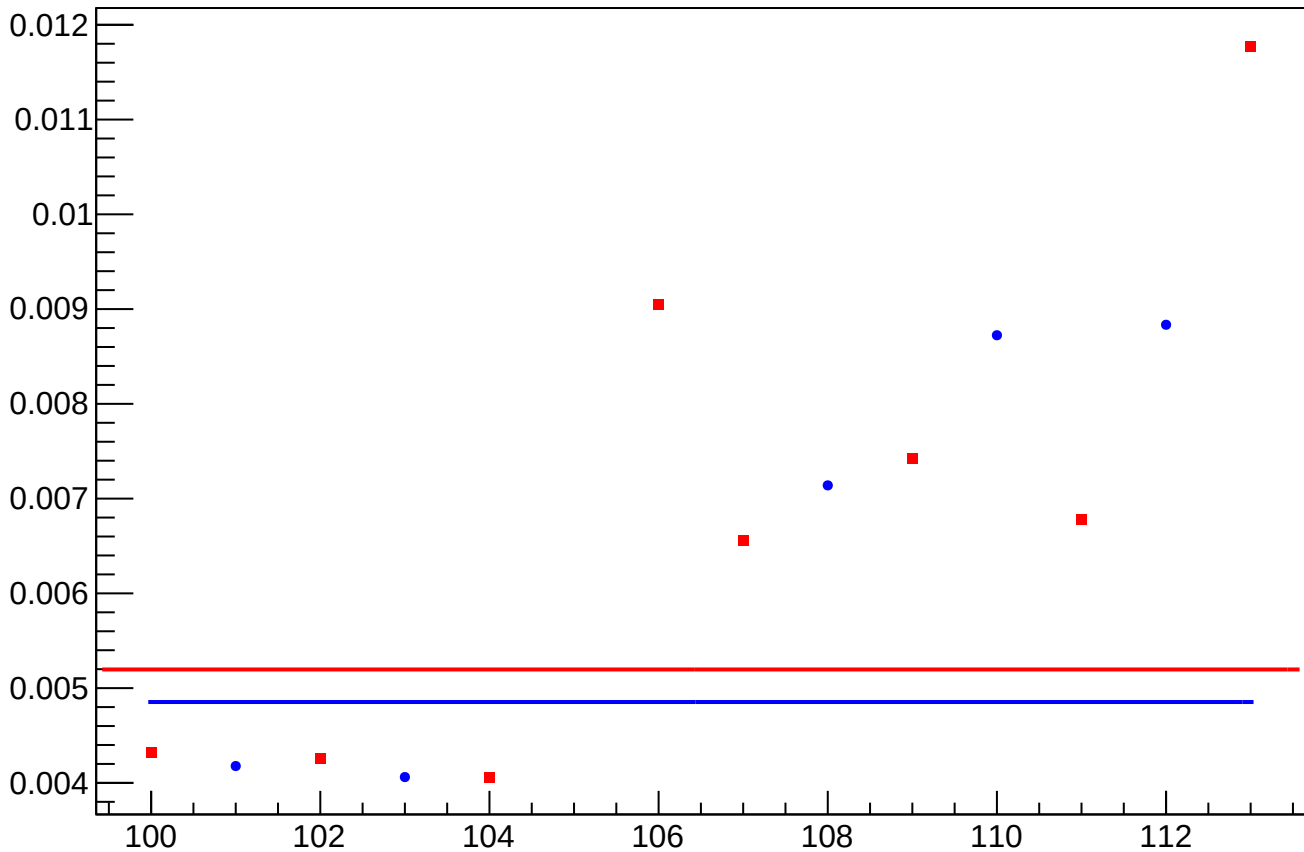
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.993 $\pm$ 0.000  $\chi^2$ /NDF: 16016817064.9/1

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l05X\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 427772.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 597761.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

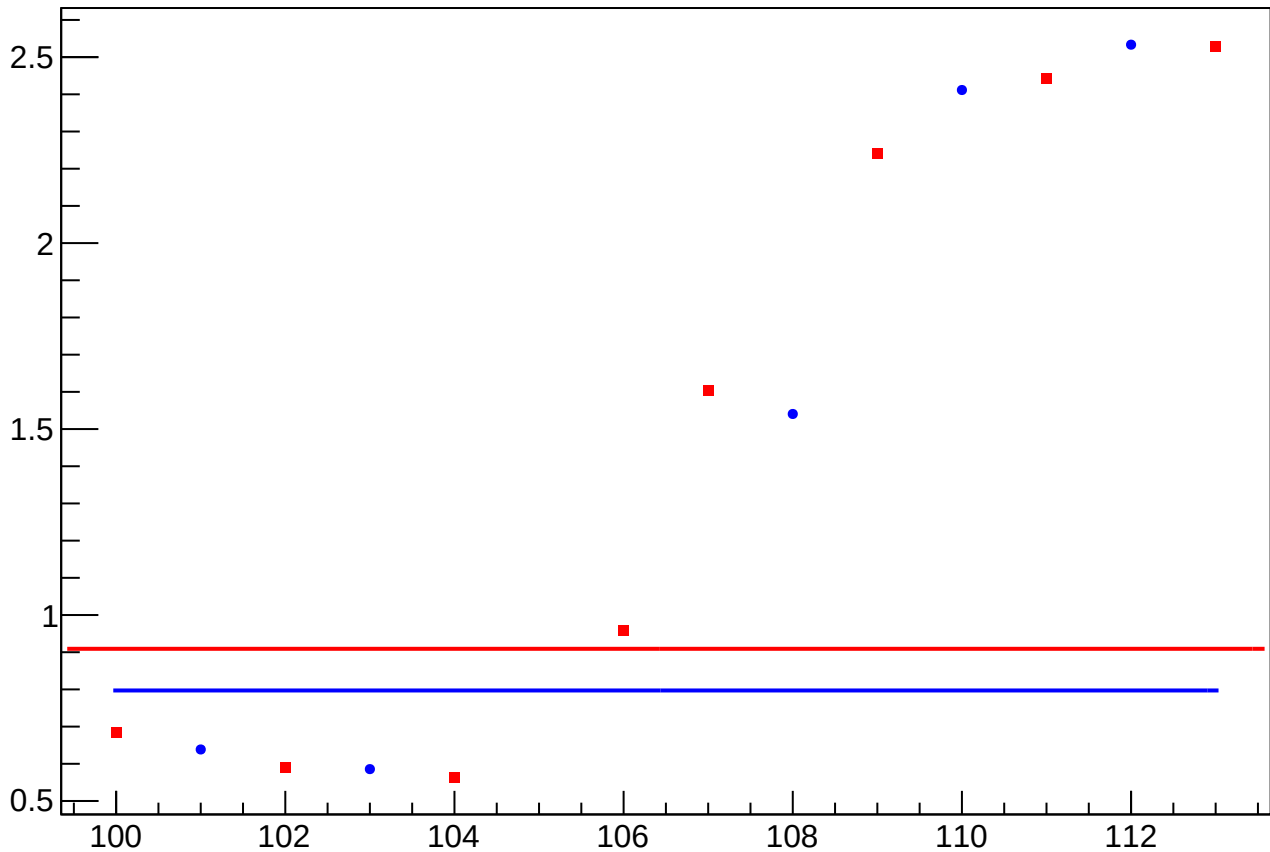
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1036352.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l05Y\_mean vs Slug



Right In: 0.797 $\pm$ 0.000  $\chi^2$ /NDF: 25826491998.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.909 $\pm$ 0.000  $\chi^2$ /NDF: 48566491332.0/7

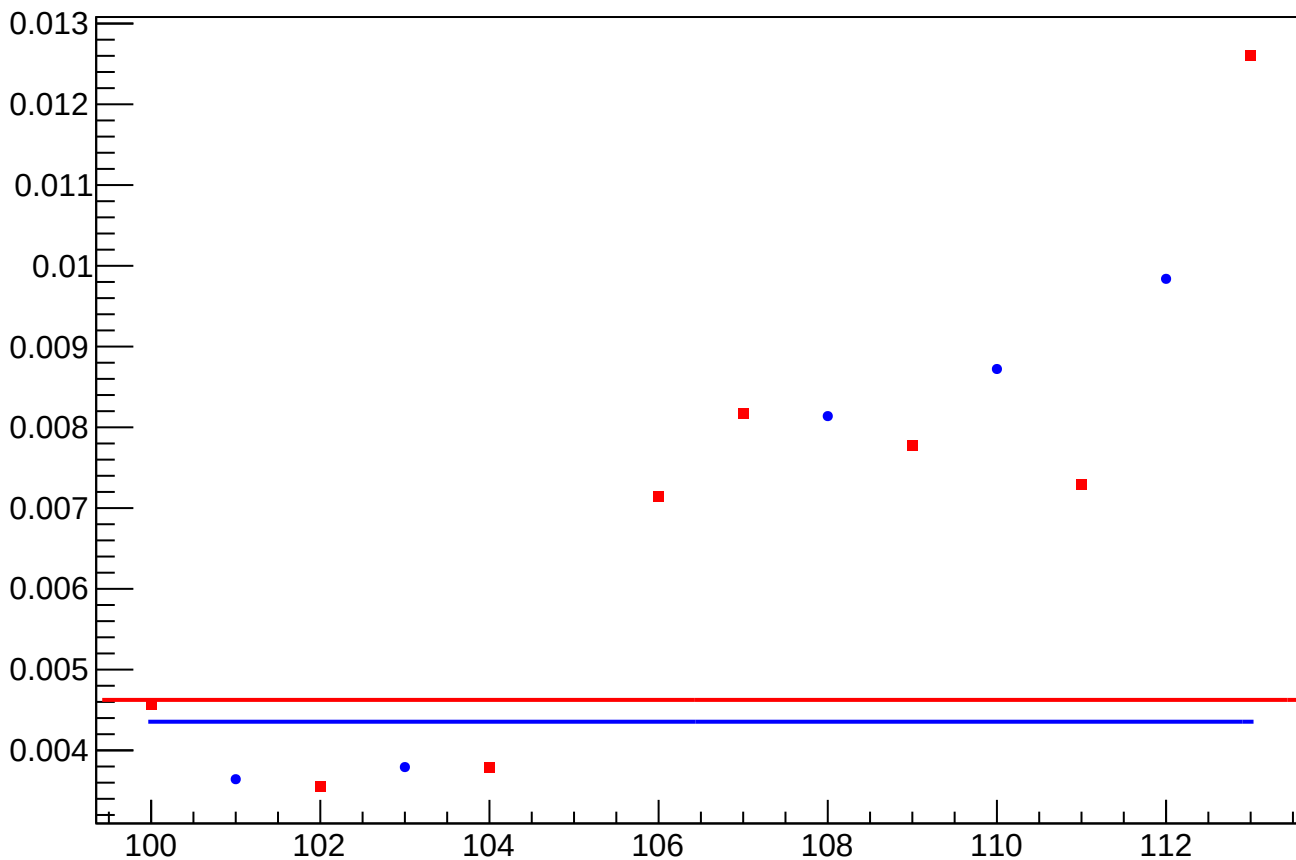
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.856 $\pm$ 0.000  $\chi^2$ /NDF: 75057568634.8/1

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l05Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 582063.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 789647.7/7

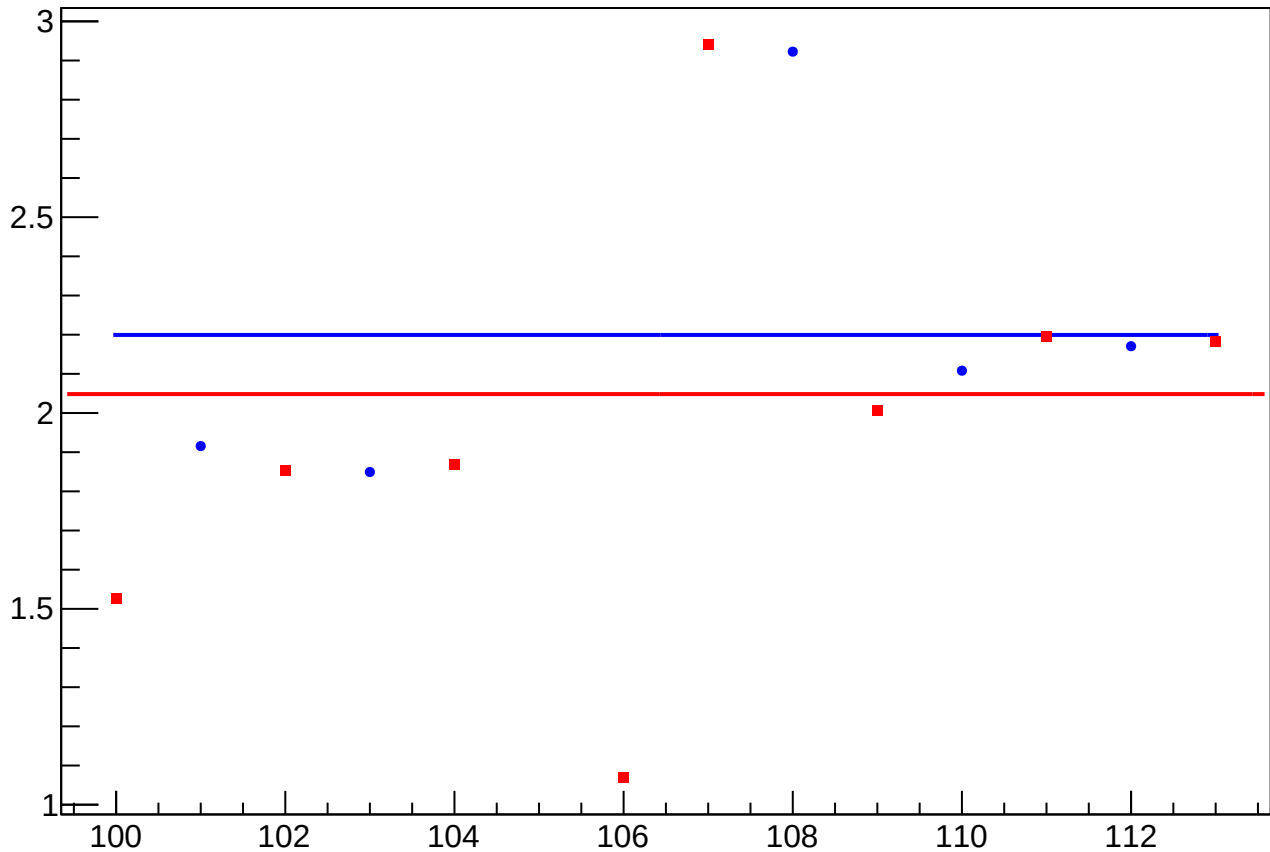
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 1379443.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06X\_mean vs Slug



Right In: 2.199+/-0.000  $\chi^2/\text{NDF}$ : 7561860195.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.048+/-0.000  $\chi^2/\text{NDF}$ : 11175274615.1/7

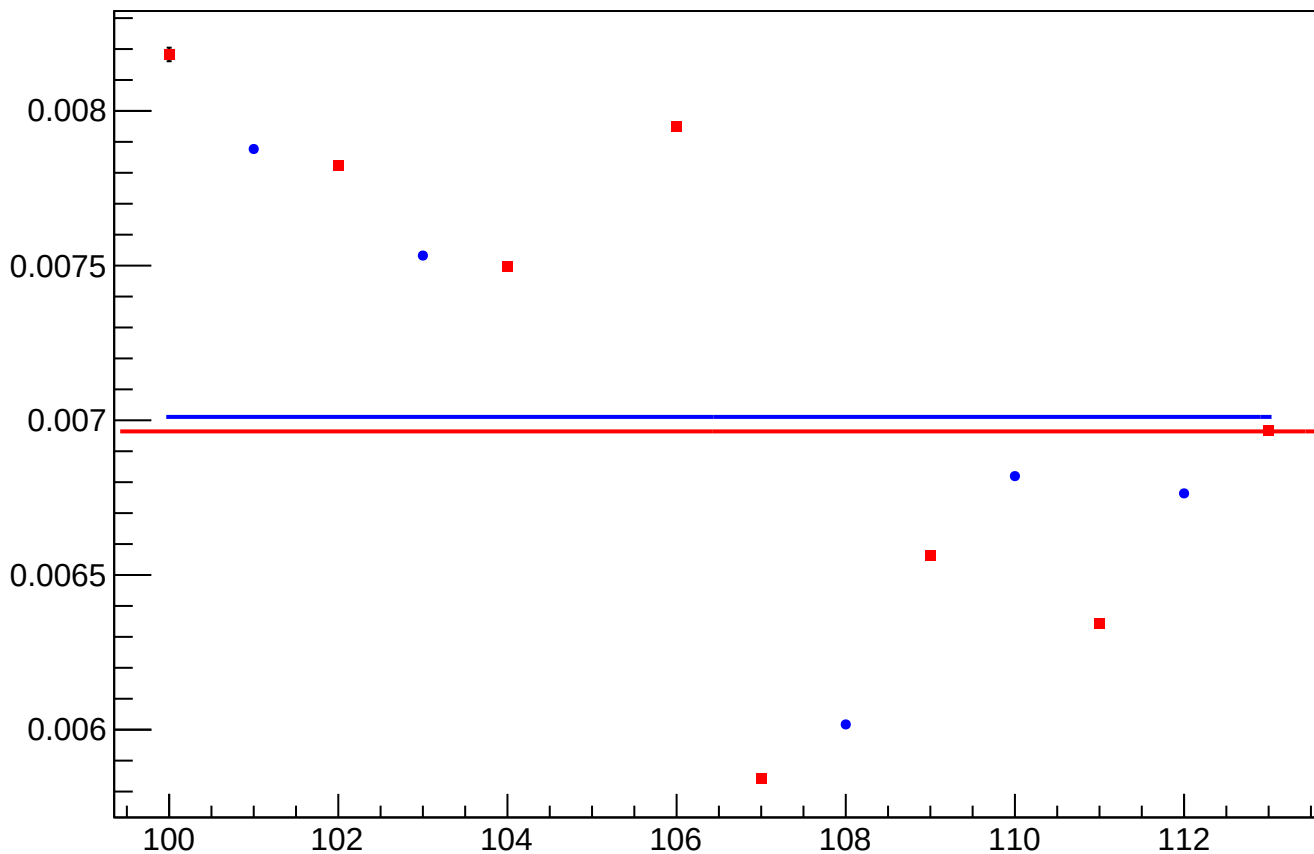
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.114+/-0.000  $\chi^2/\text{NDF}$ : 19361582325.0/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 42955.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 61675.0/7

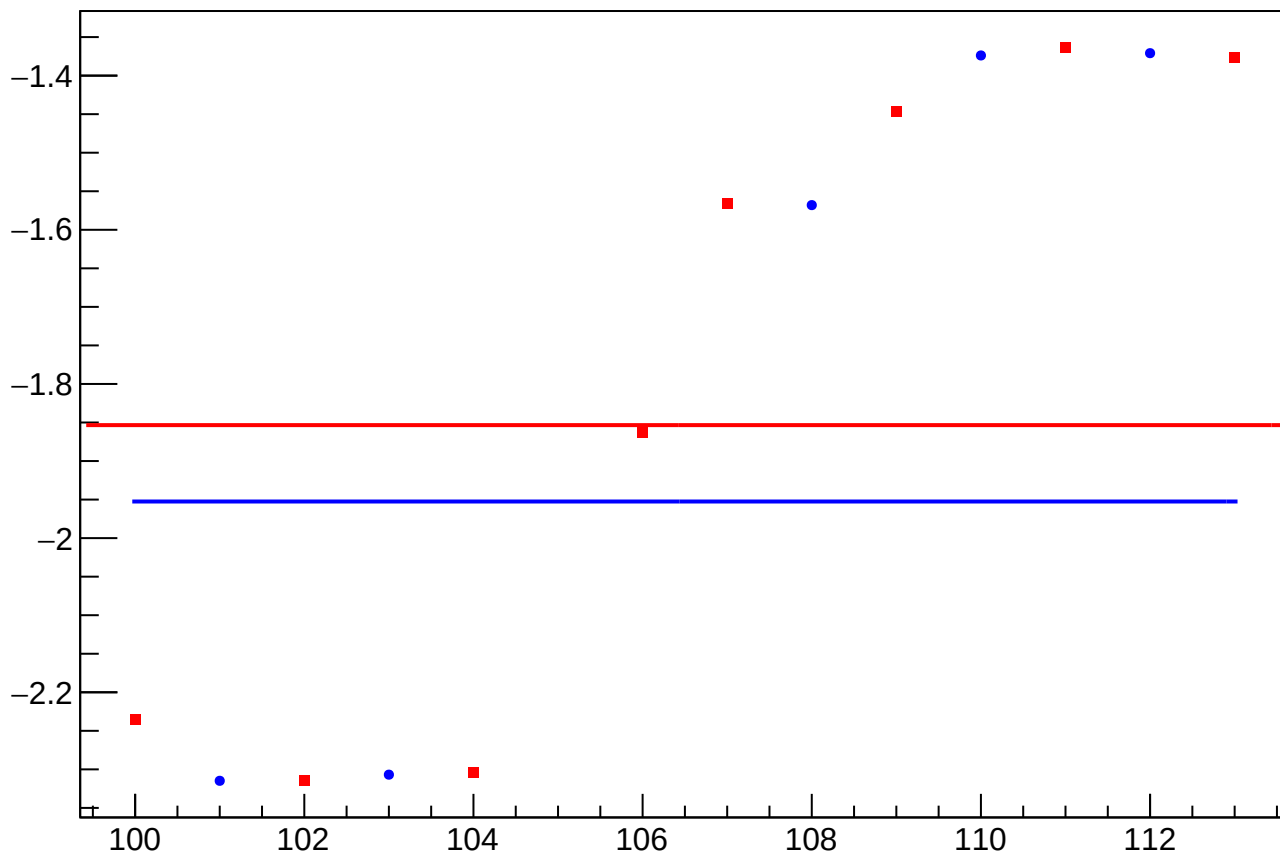
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 104750.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06Y\_mean vs Slug



Right In: -1.952+/-0.000  $\chi^2/\text{NDF}$ : 65576502475.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.853+/-0.000  $\chi^2/\text{NDF}$ : 82232983067.6/7

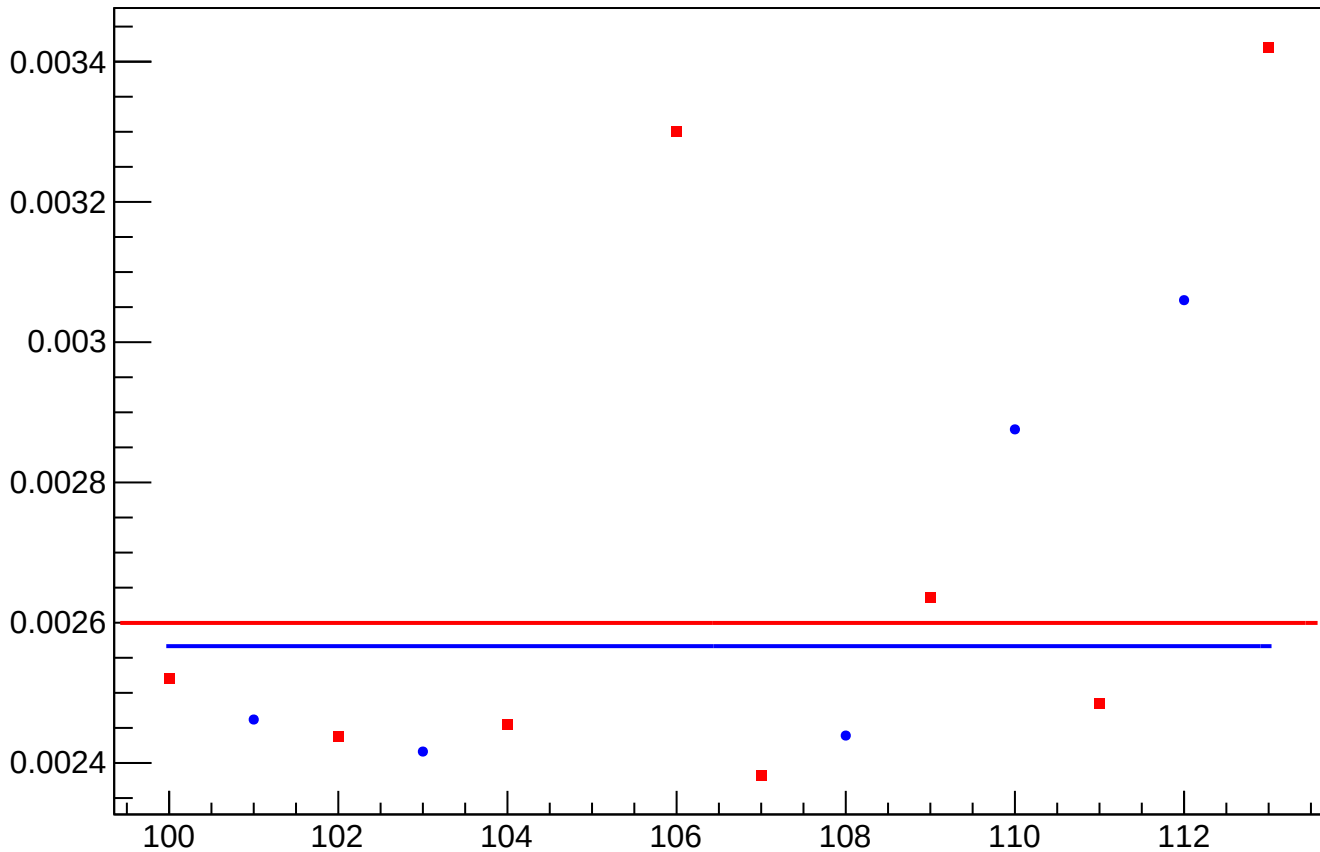
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.898+/-0.000  $\chi^2/\text{NDF}$ : 149777751992.5

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06Y\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 39172.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 85996.1/7

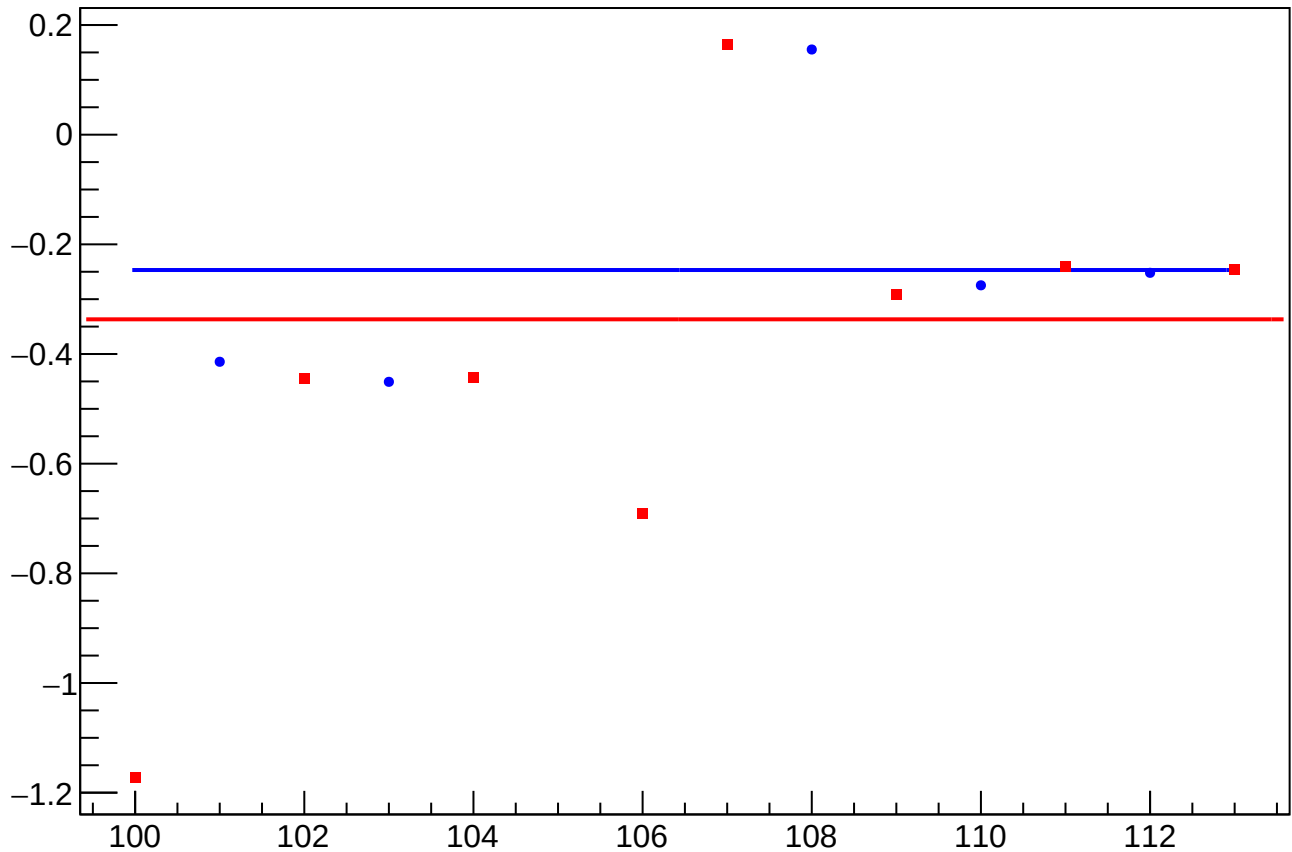
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 125607.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07X\_mean vs Slug



Right In: -0.247+/-0.000  $\chi^2/\text{NDF}$ : 852128067.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.337+/-0.000  $\chi^2/\text{NDF}$ : 1429923274.1/7

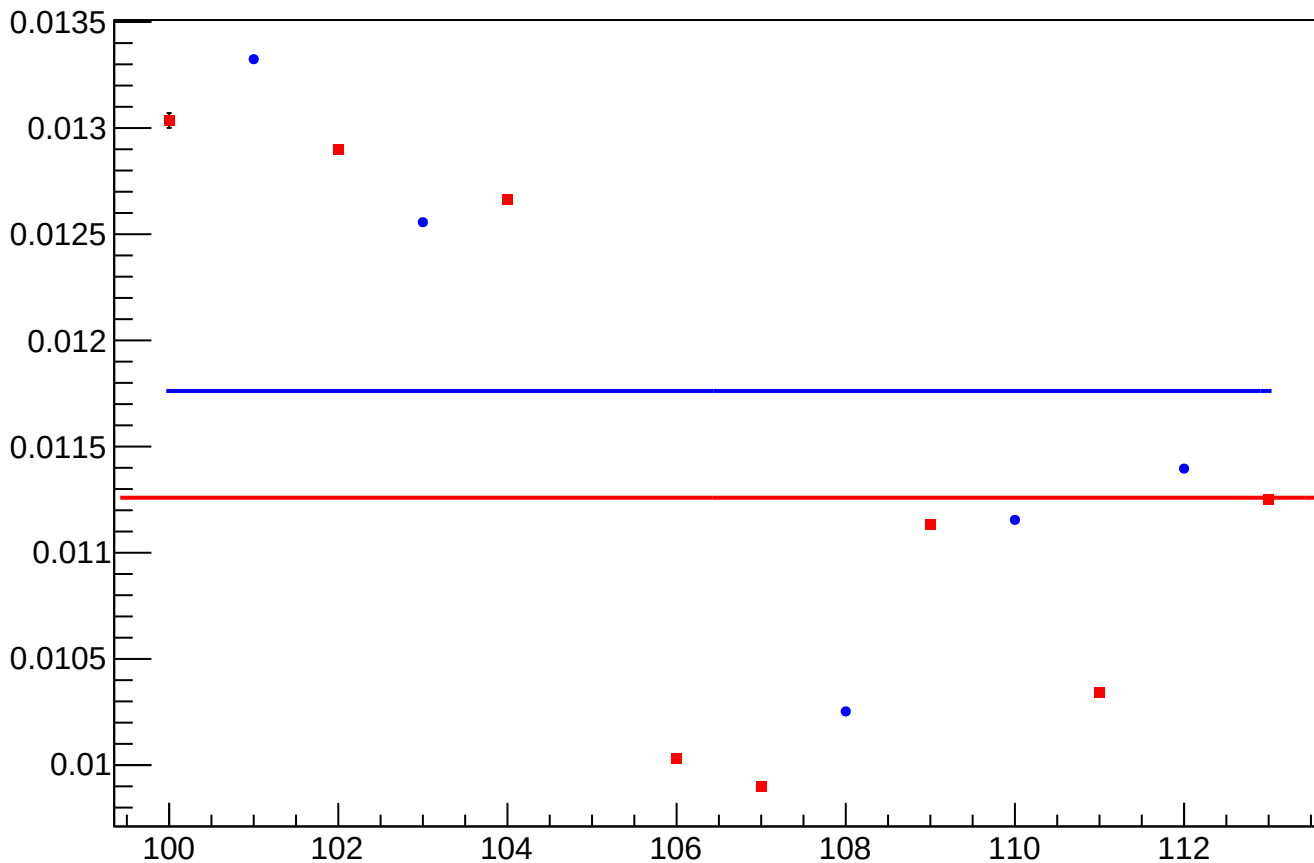
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.299+/-0.000  $\chi^2/\text{NDF}$ : 2365367386.0/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07X\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 42120.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 60668.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

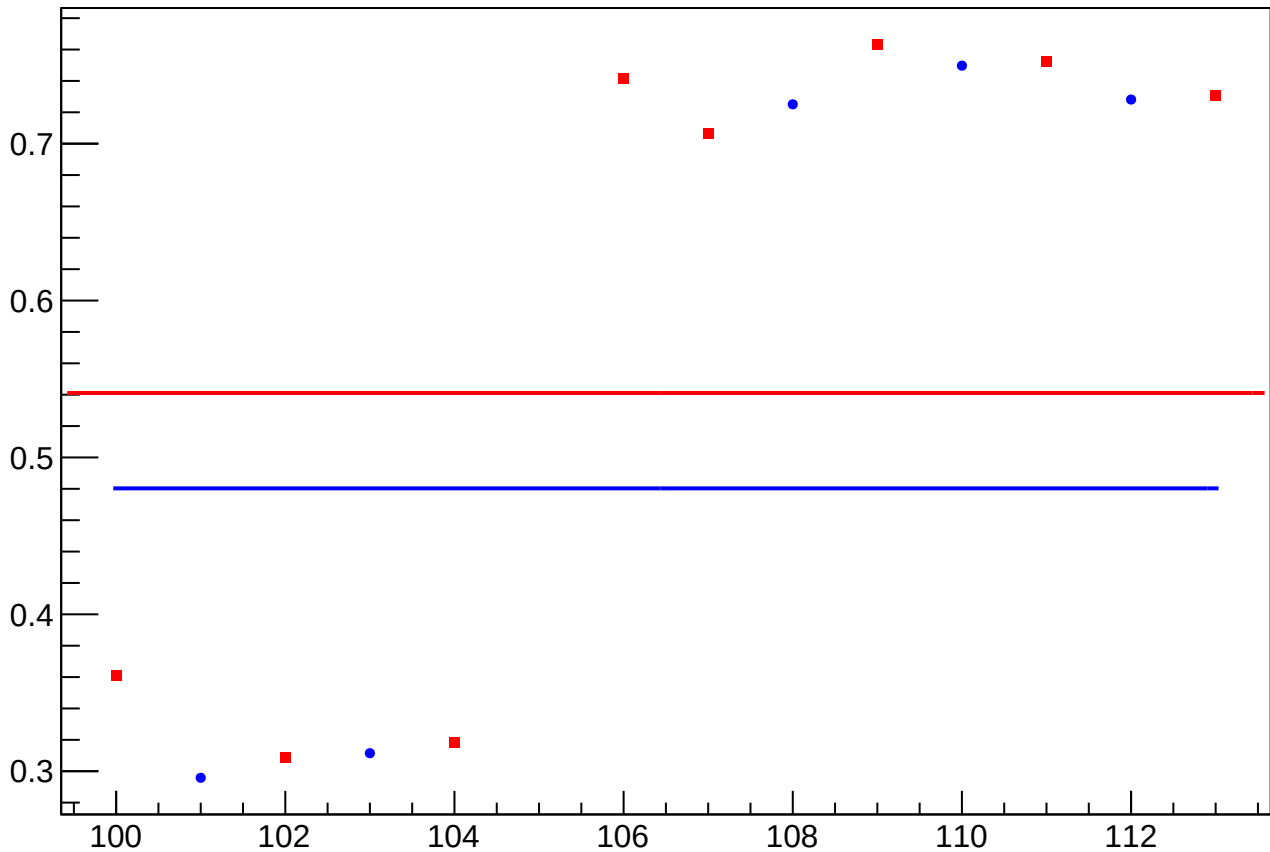
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 107996.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l07Y\_mean vs Slug



Right In: 0.480+/-0.000  $\chi^2/\text{NDF}$ : 16216365187.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.541+/-0.000  $\chi^2/\text{NDF}$ : 20182962992.9/7

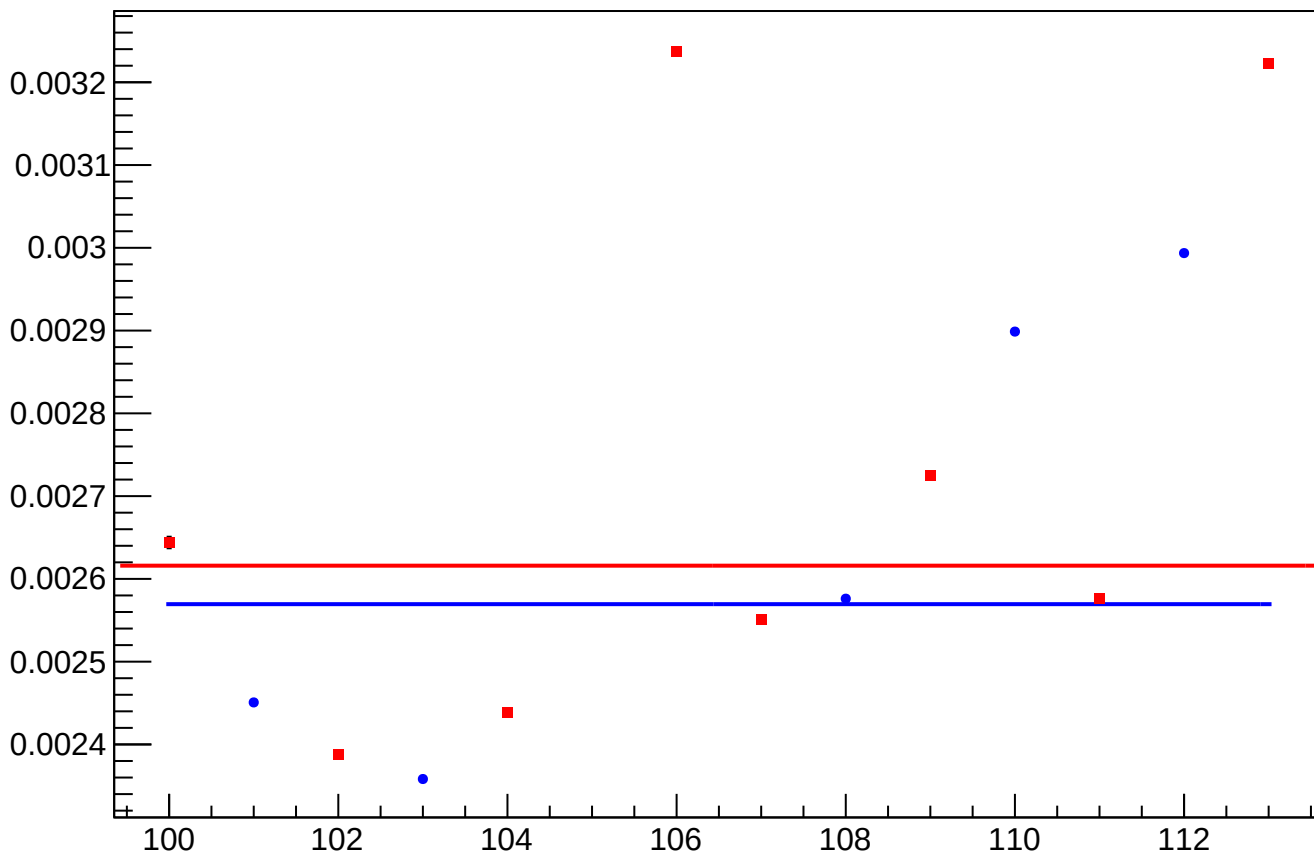
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.514+/-0.000  $\chi^2/\text{NDF}$ : 37133877885.5/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07Y\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 39552.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 65508.6/7

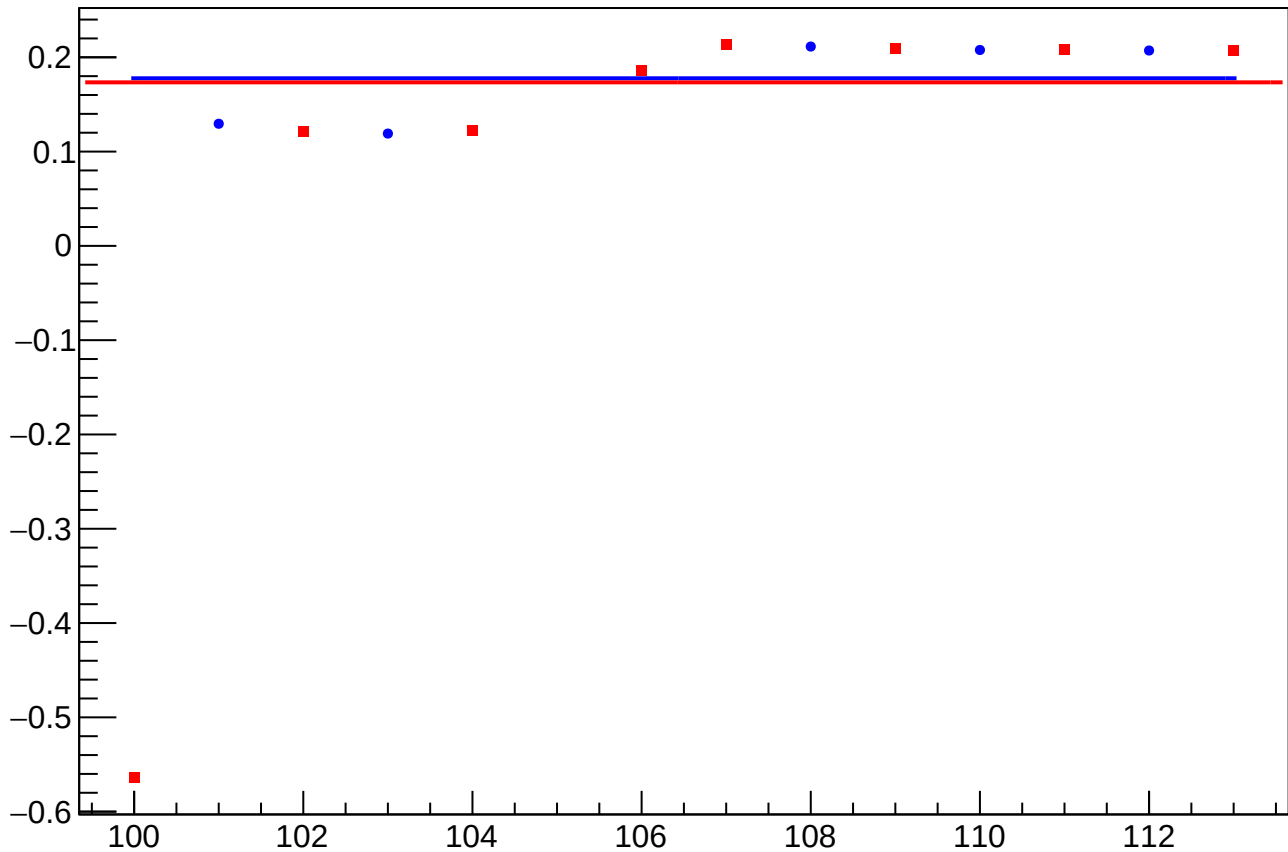
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 105920.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08X\_mean vs Slug



Right In: 0.178+/-0.000  $\chi^2/\text{NDF}$ : 38073096.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.173+/-0.000  $\chi^2/\text{NDF}$ : 322268648.8/7

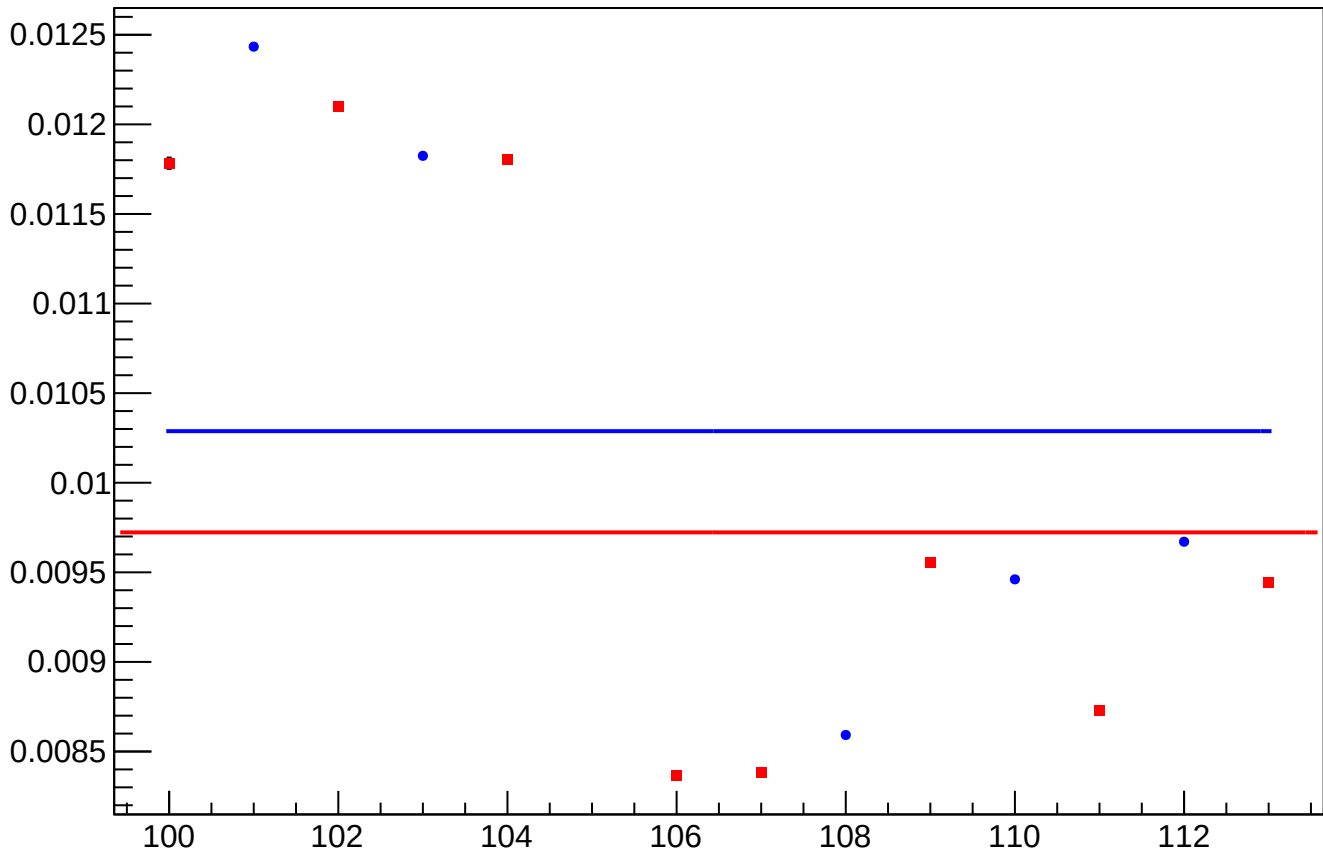
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.175+/-0.000  $\chi^2/\text{NDF}$ : 360591583.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08X\_rms vs Slug



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 97228.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 125005.7/7

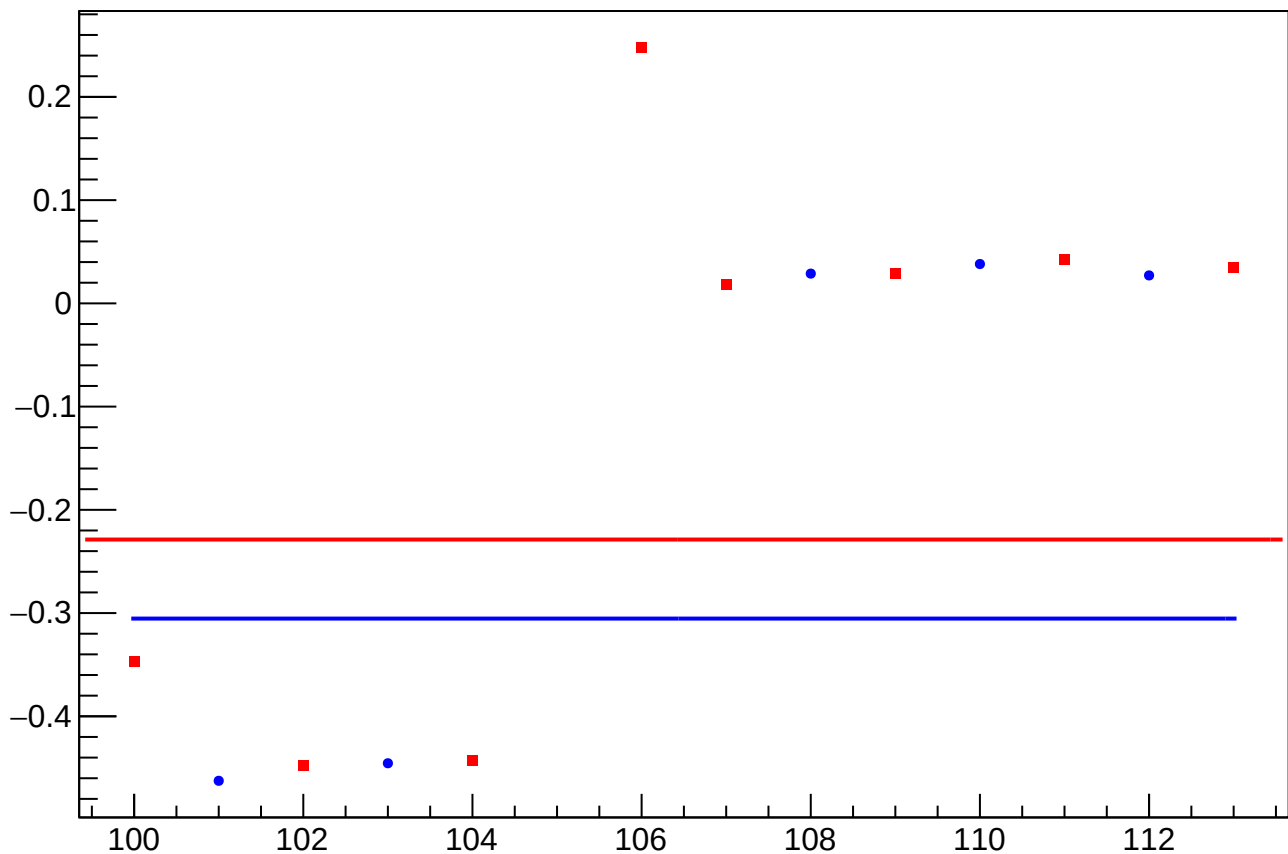
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 230803.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08Y\_mean vs Slug



Right In: -0.305+/-0.000  $\chi^2/\text{NDF}$ : 6908740868.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.229+/-0.000  $\chi^2/\text{NDF}$ : 10080882642.7/7

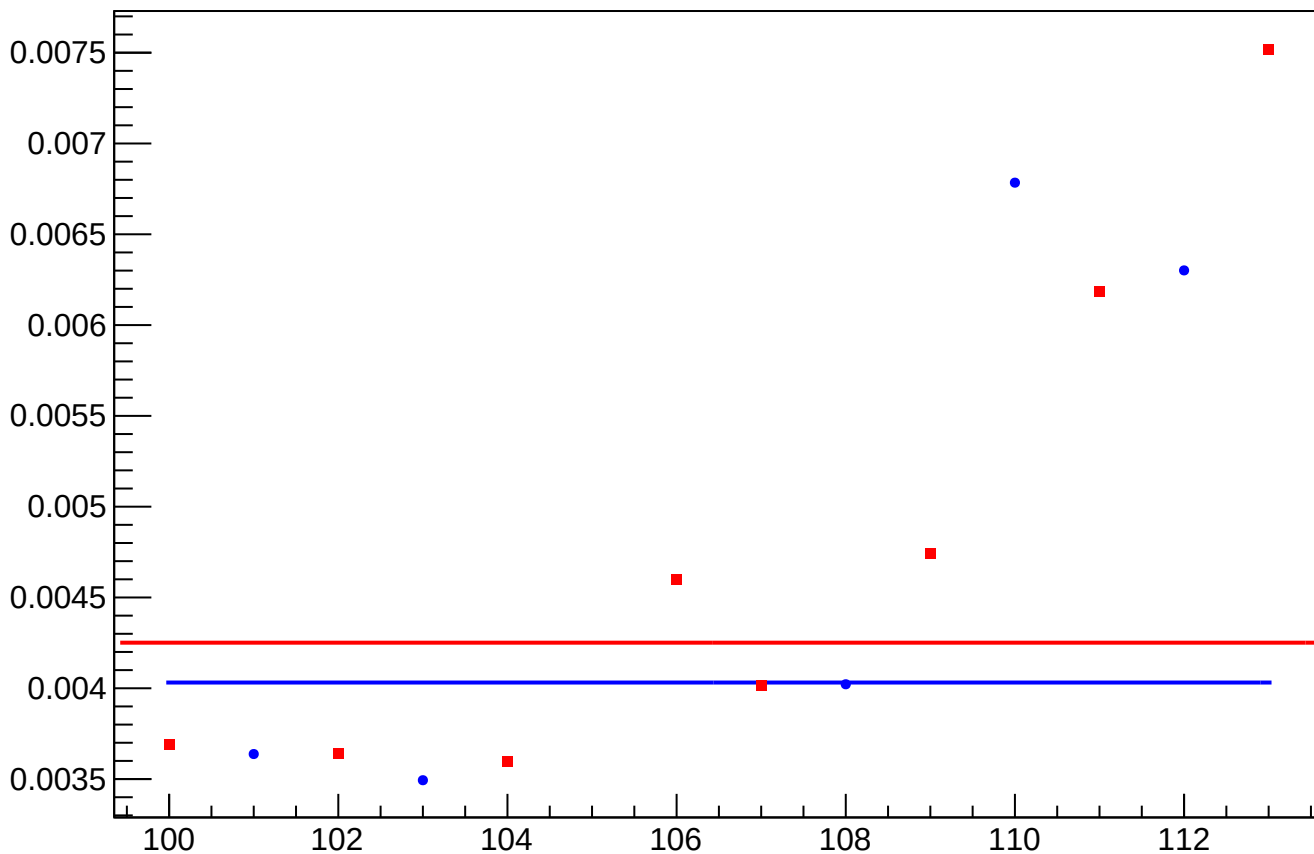
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.265+/-0.000  $\chi^2/\text{NDF}$ : 17420703647.5/14

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 265815.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 329820.0/7

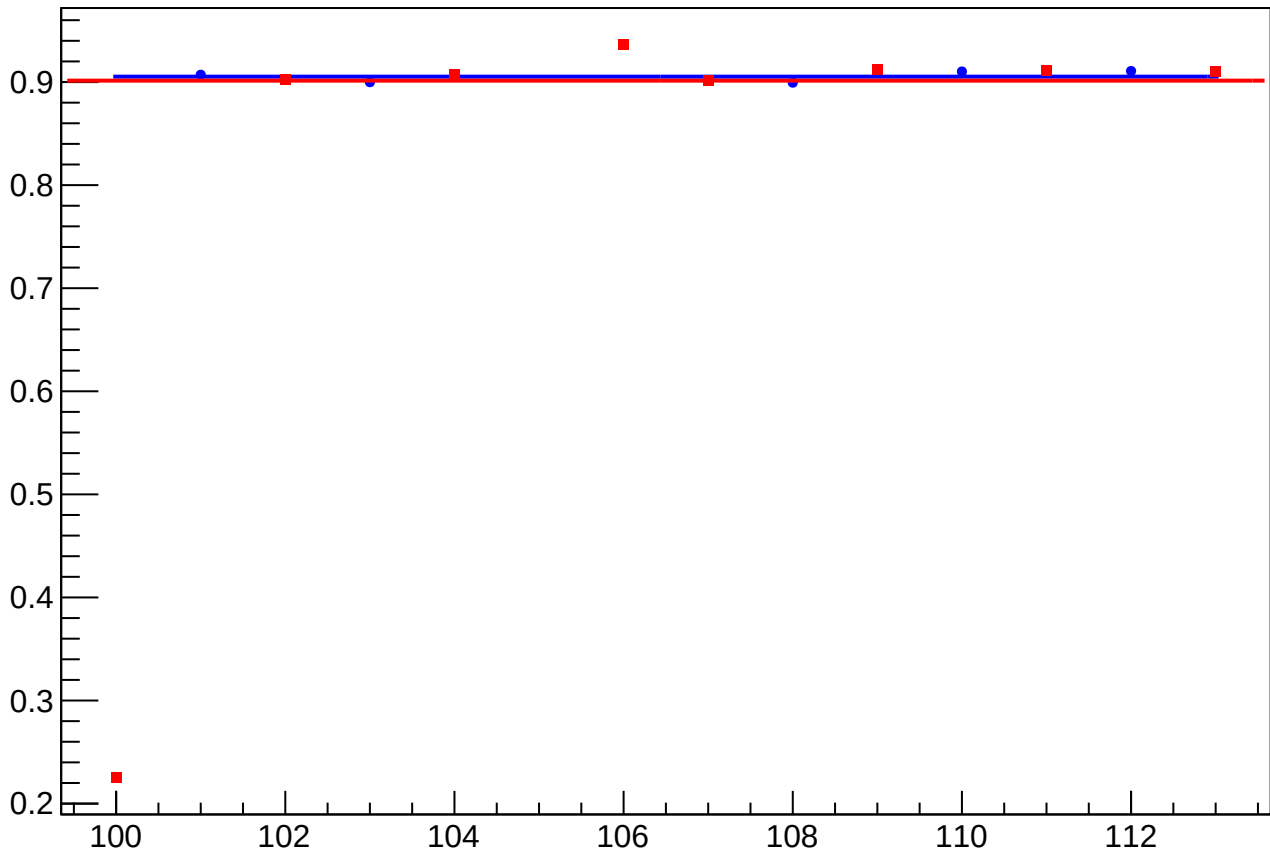
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 602720.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l09X\_mean vs Slug



Right In: 0.905 $\pm$ 0.000  $\chi^2$ /NDF: 454023.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.901 $\pm$ 0.000  $\chi^2$ /NDF: 216519306.2/7

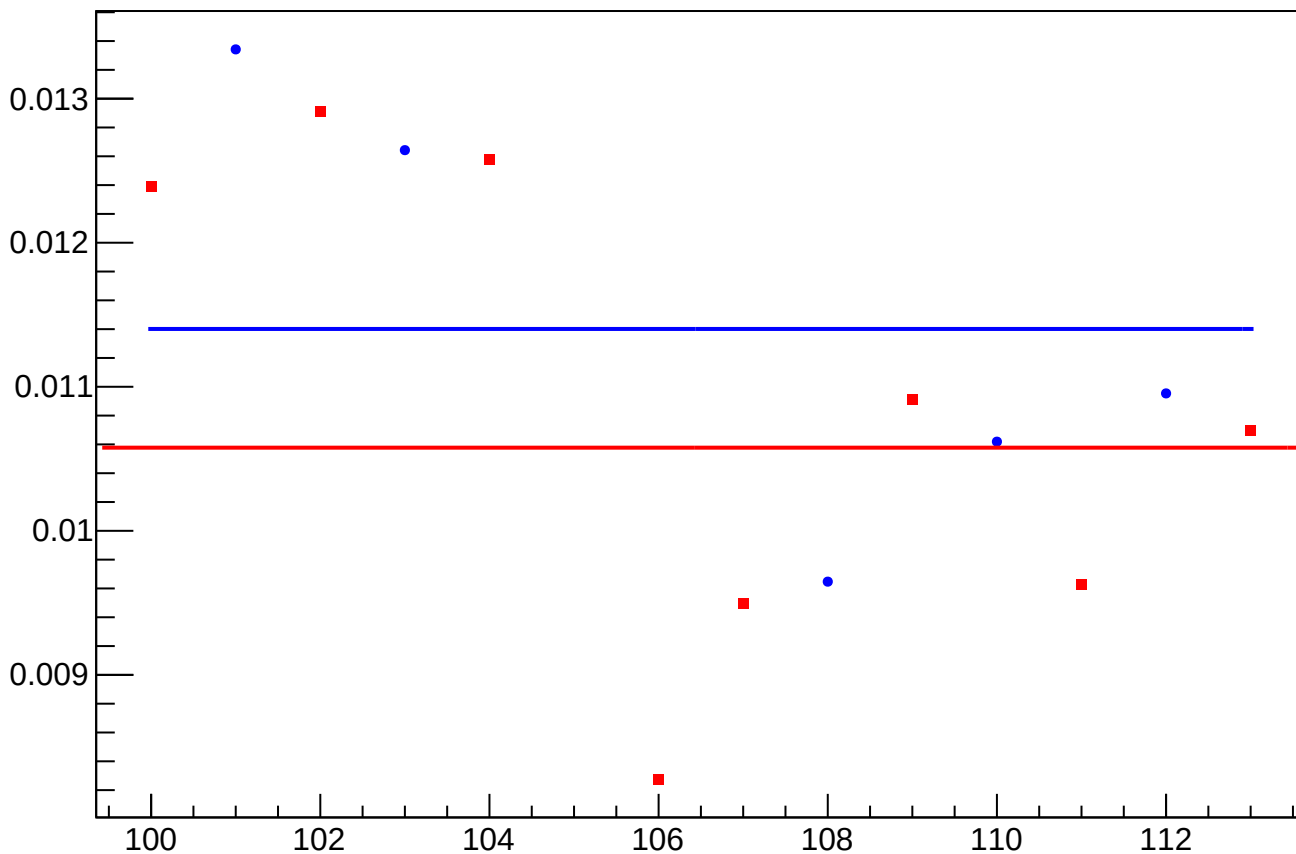
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.903 $\pm$ 0.000  $\chi^2$ /NDF: 217139289.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l09X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 68998.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 133379.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

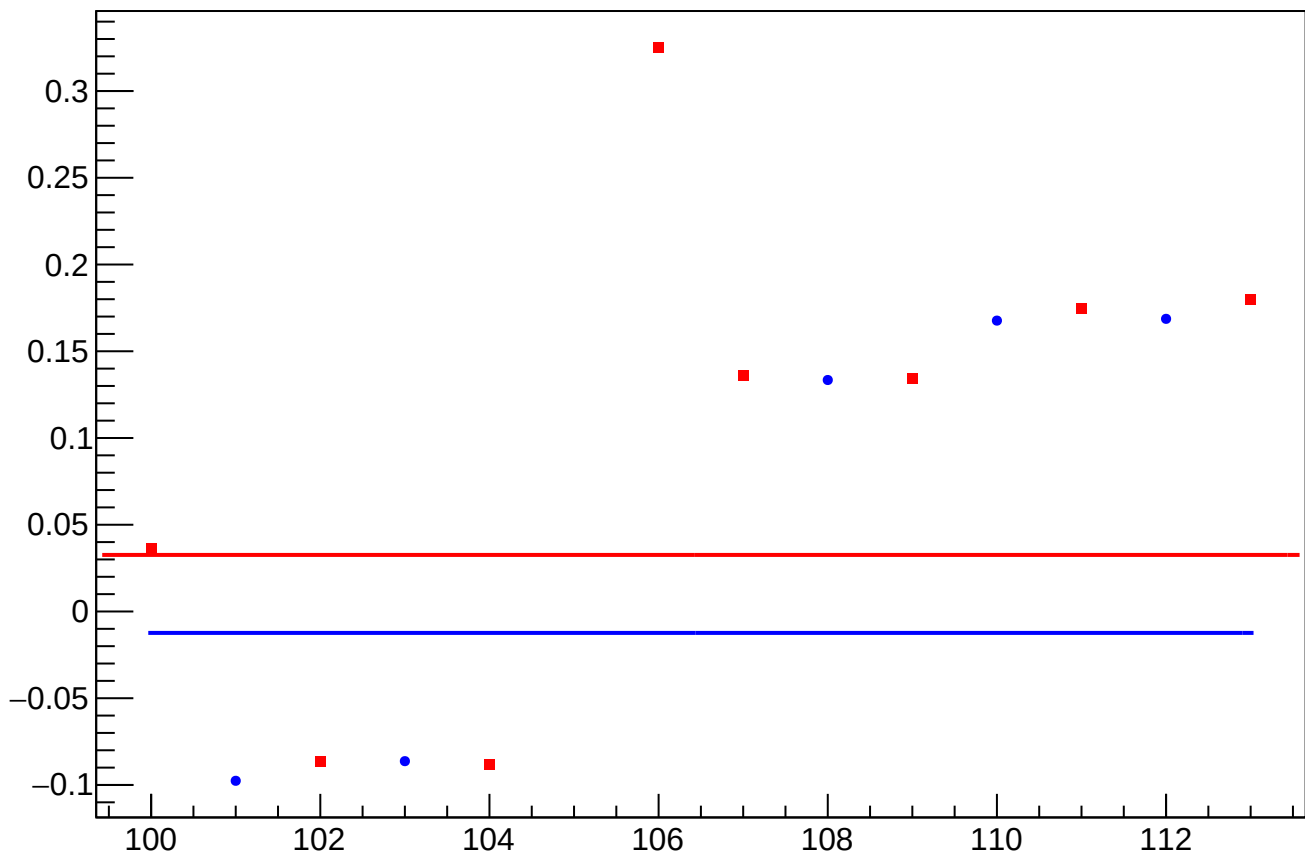
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 217434.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l09Y\_mean vs Slug



Right In: -0.012+/-0.000  $\chi^2/\text{NDF}$ : 1507076038.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.033+/-0.000  $\chi^2/\text{NDF}$ : 2473906185.5/7

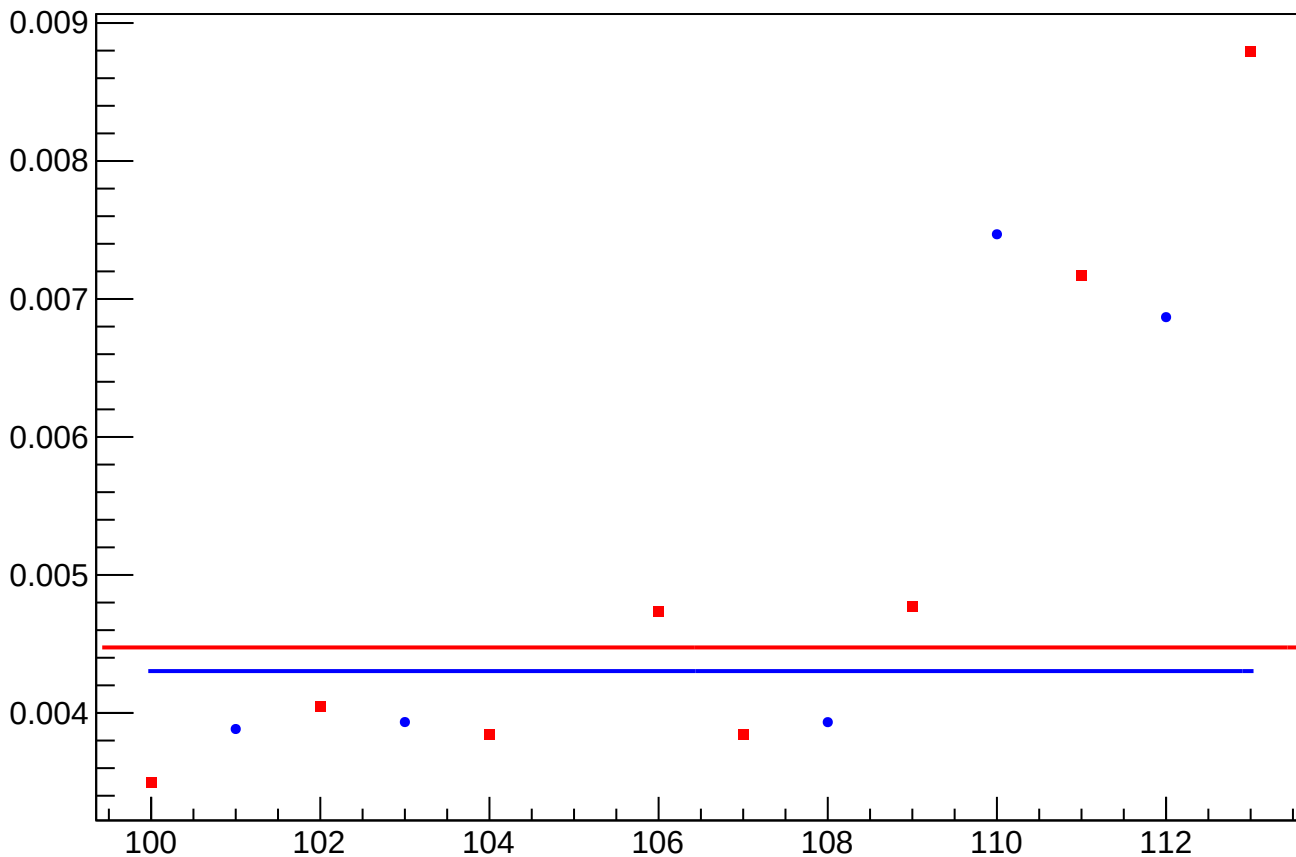
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 4108518133.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l09Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 259399.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 383644.1/7

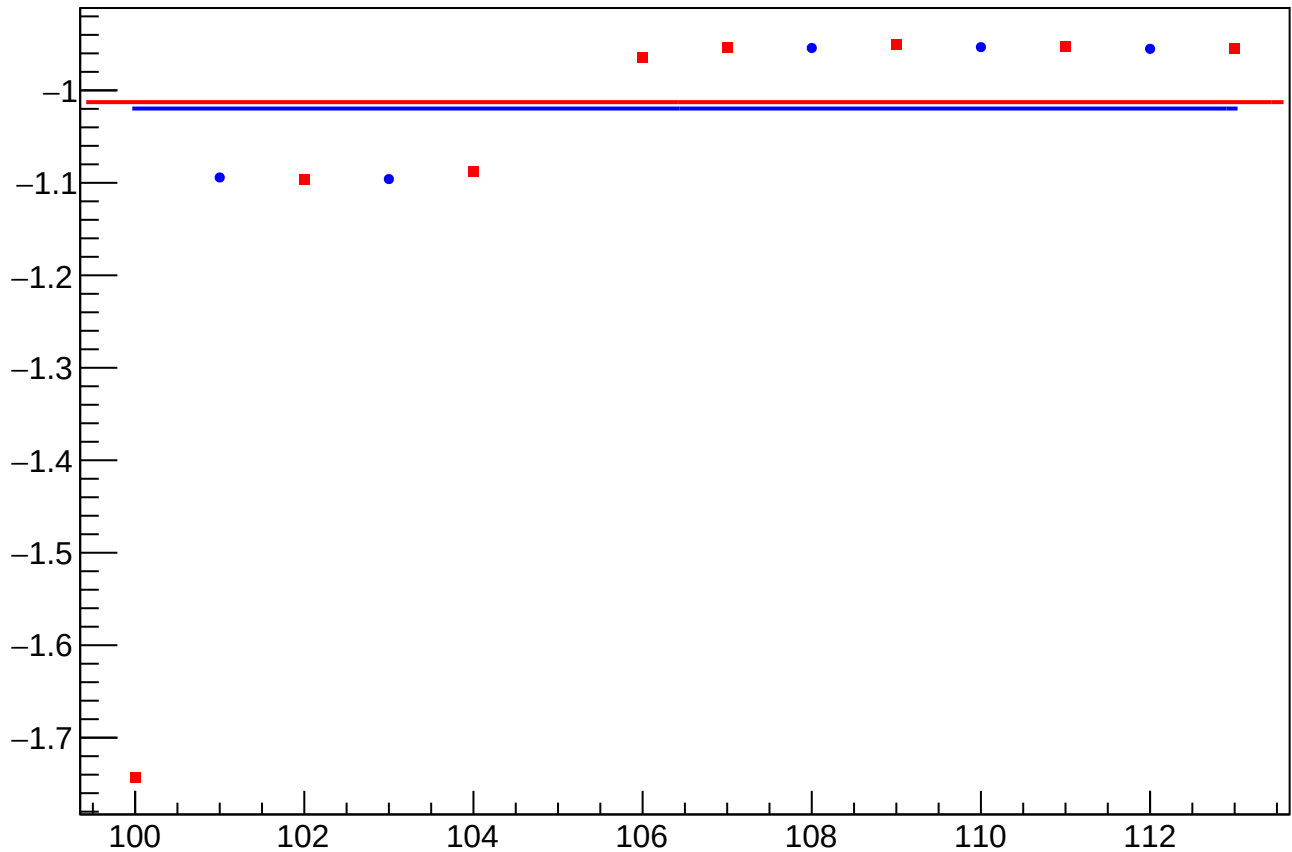
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 646749.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l10X\_mean vs Slug



Right In: -1.020+/-0.000  $\chi^2/\text{NDF}$ : 85546736.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.013+/-0.000  $\chi^2/\text{NDF}$ : 387877475.3/7

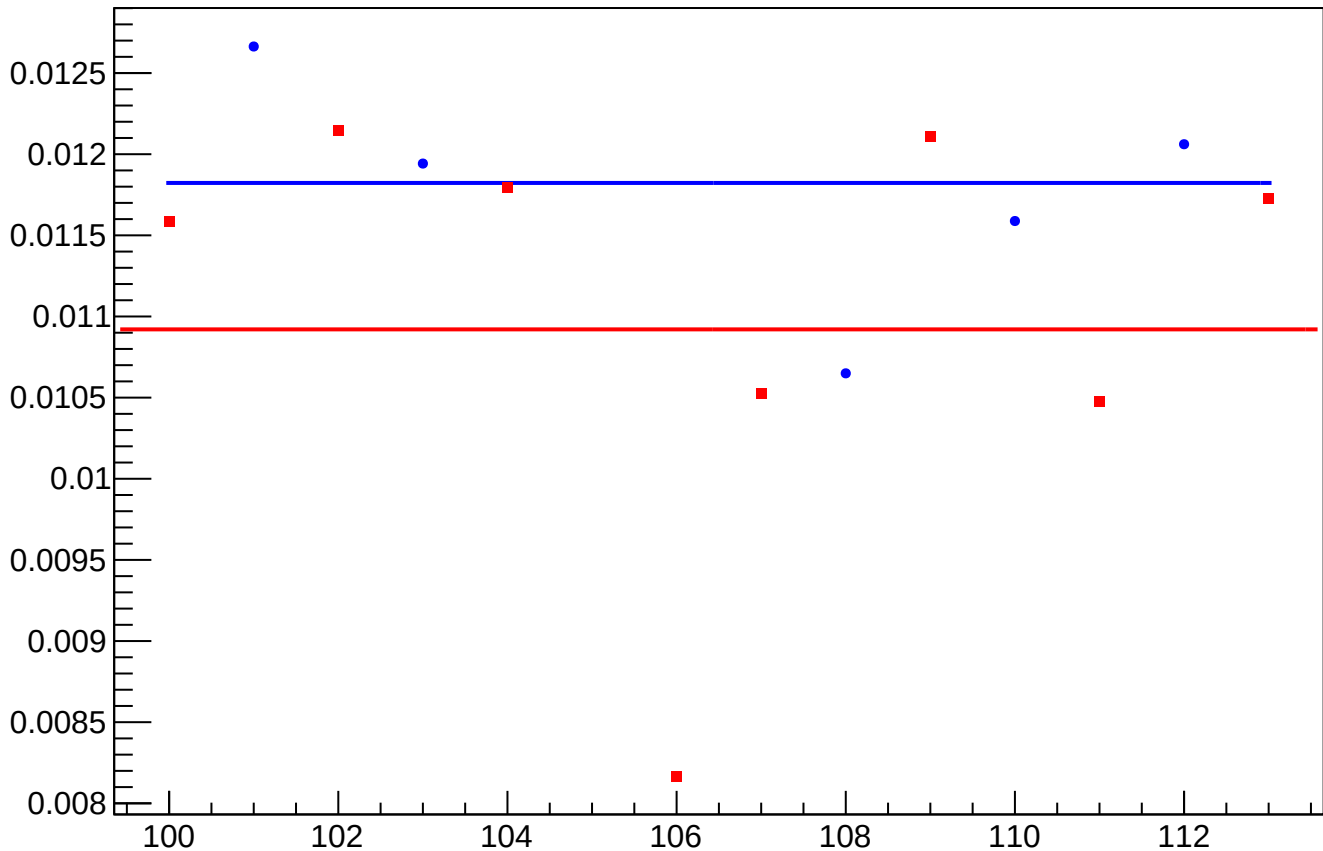
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.016+/-0.000  $\chi^2/\text{NDF}$ : 473923225.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l10X\_rms vs Slug



Right In: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 15608.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 106344.8/7

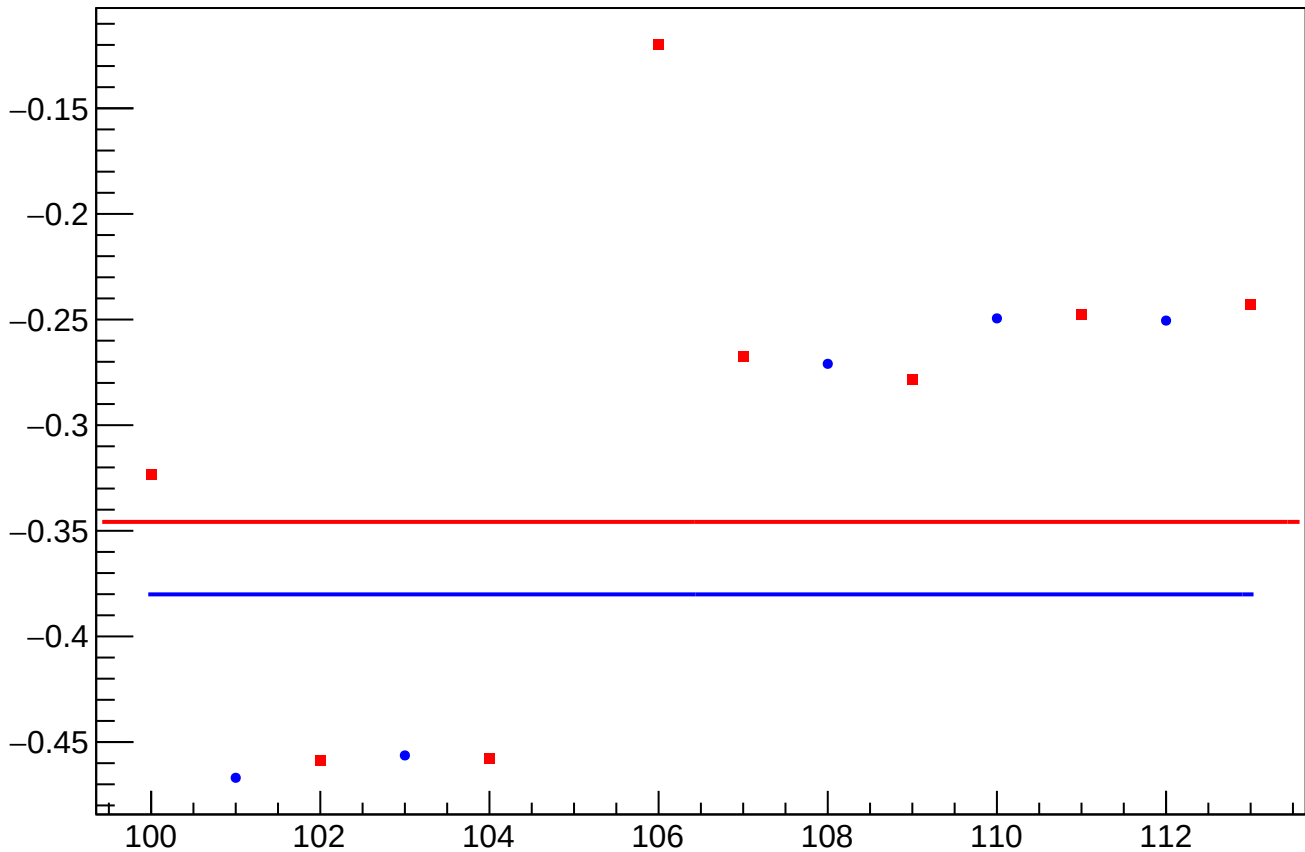
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 138902.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l10Y\_mean vs Slug



Right In: -0.380+/-0.000  $\chi^2/\text{NDF}$ : 1472860200.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.346+/-0.000  $\chi^2/\text{NDF}$ : 2040954047.6/7

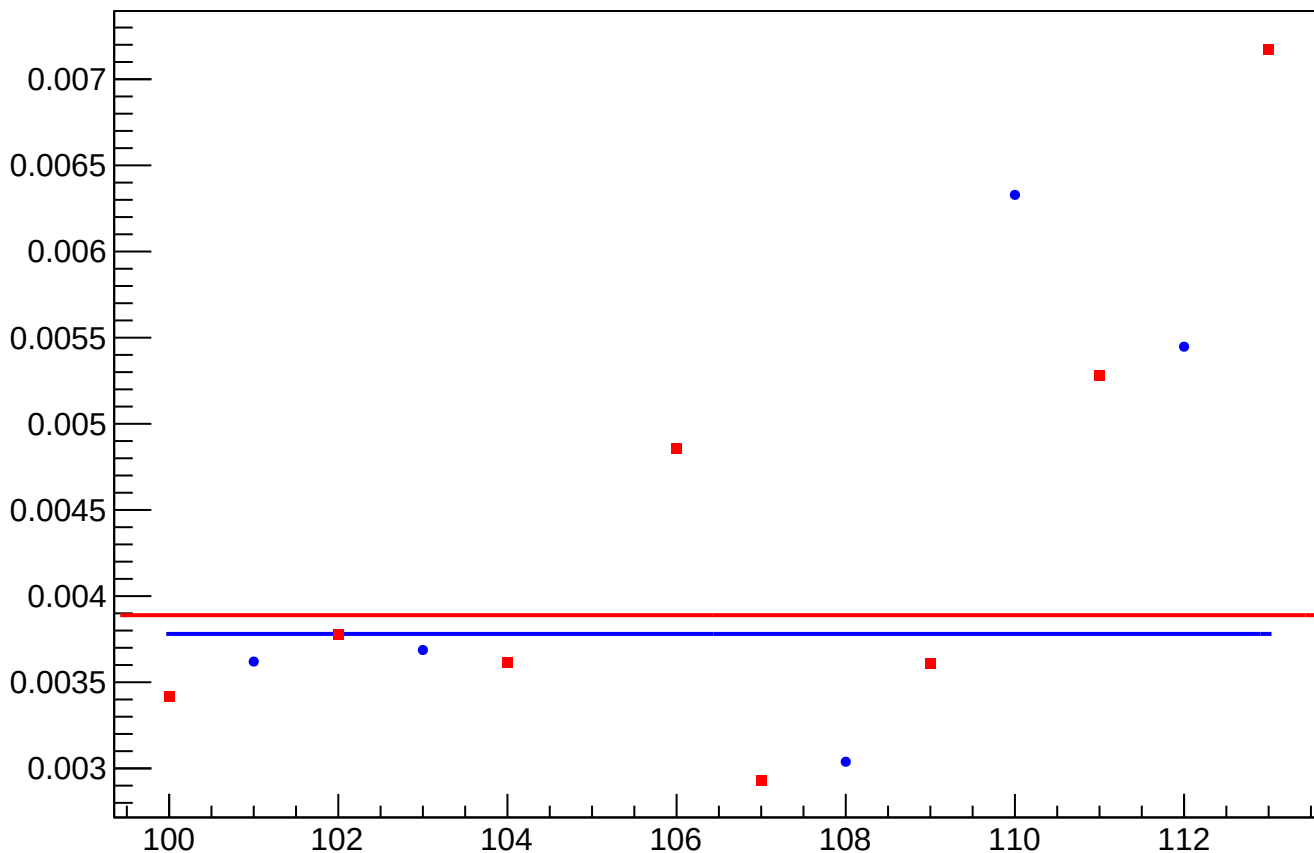
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.362+/-0.000  $\chi^2/\text{NDF}$ : 3611912666.0/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l10Y\_rms vs Slug



Right In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 227263.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 312945.5/7

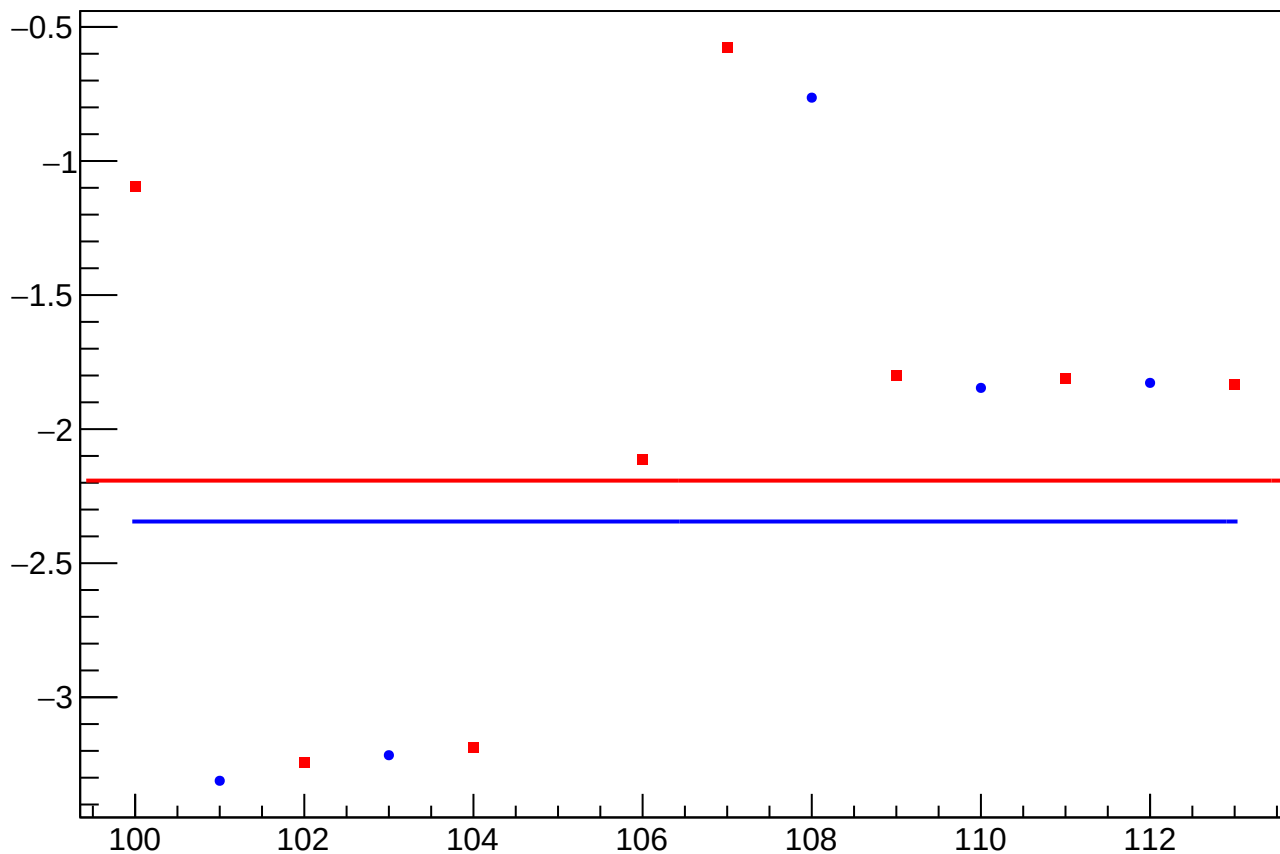
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 542178.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r03X\_mean vs Slug



Right In: -2.345+/-0.000  $\chi^2/\text{NDF}$ : 434601434.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.192+/-0.000  $\chi^2/\text{NDF}$ : 417359833.9/7

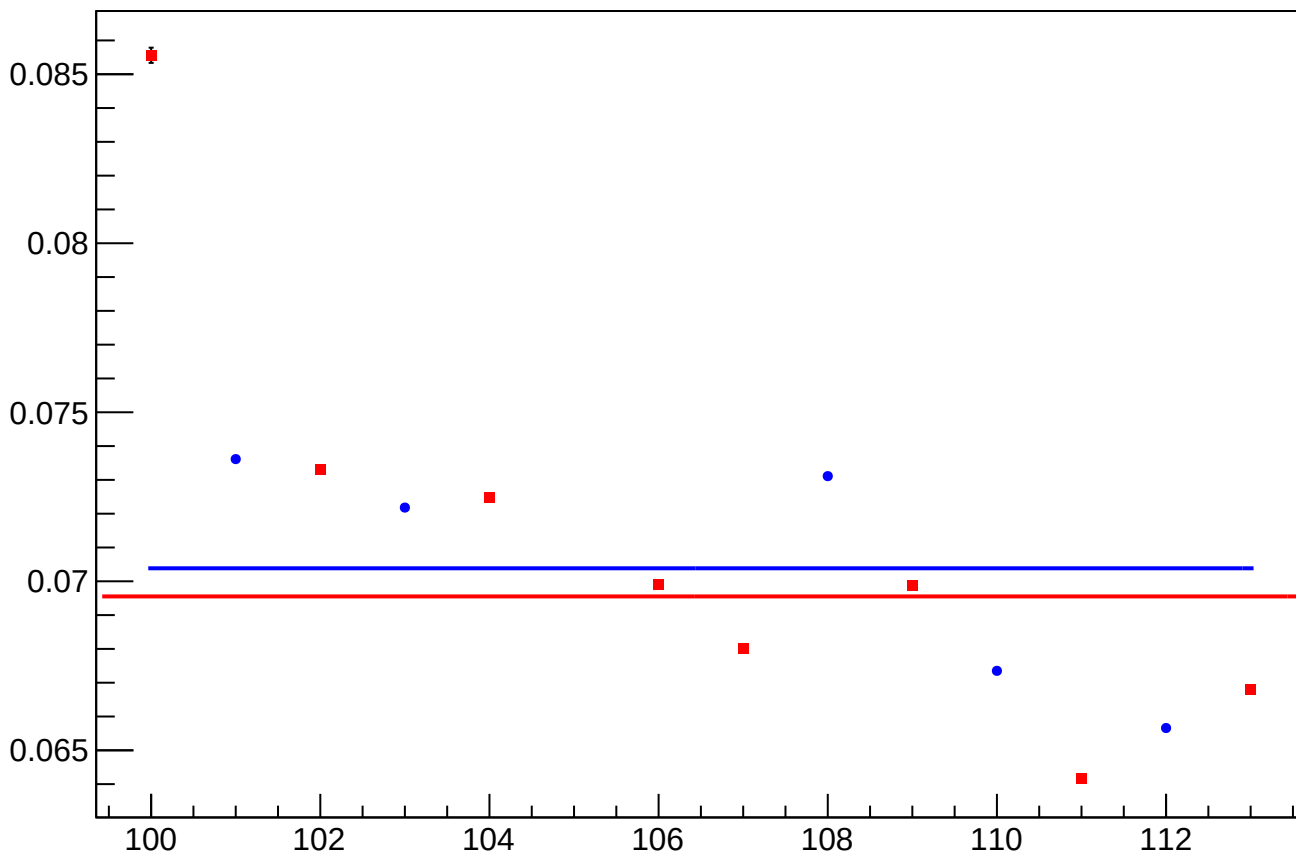
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.258+/-0.000  $\chi^2/\text{NDF}$ : 858649125.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r03X\_rms vs Slug



Right In: 0.070+/-0.000  $\chi^2/\text{NDF}$ : 11007.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.070+/-0.000  $\chi^2/\text{NDF}$ : 18221.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

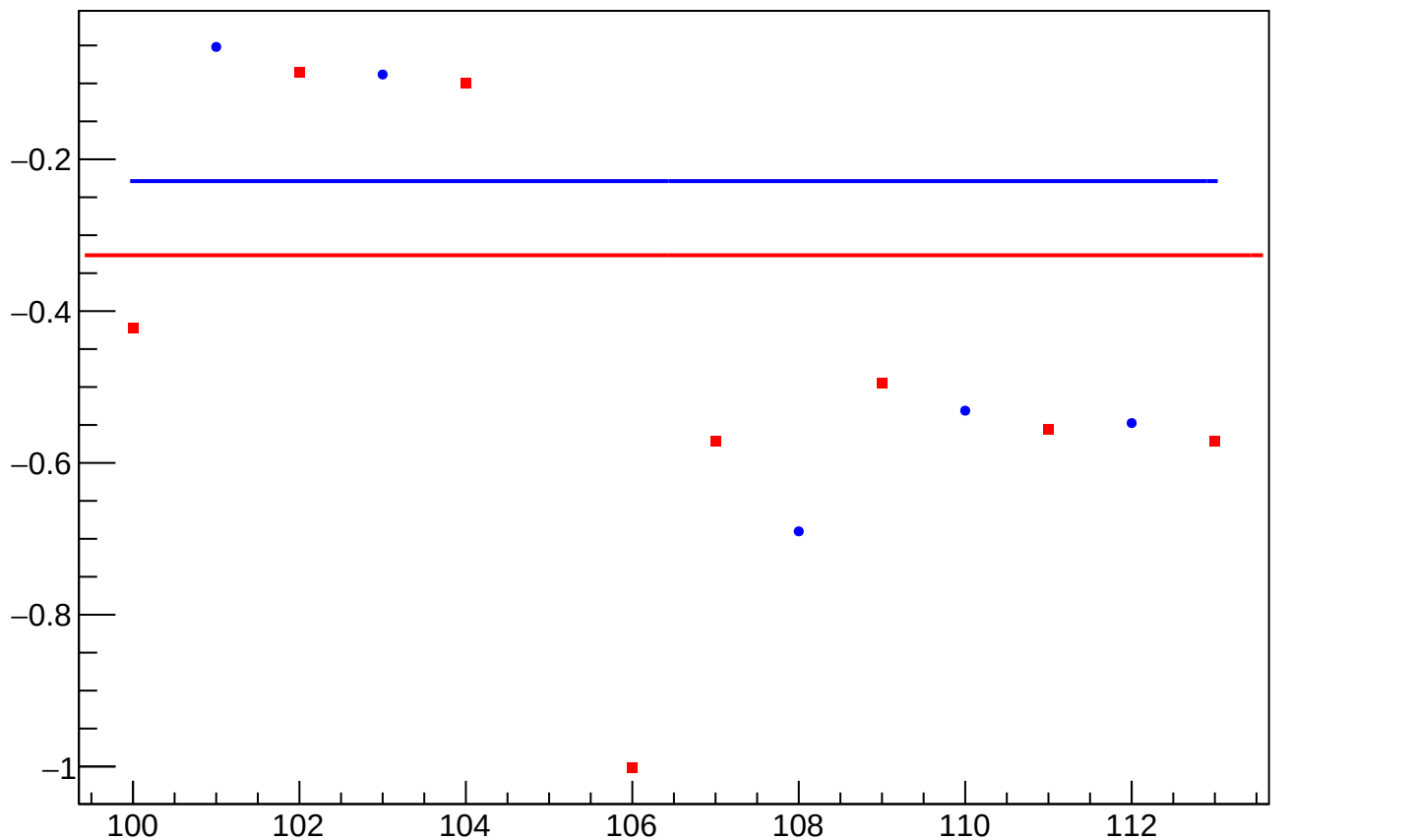
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.070+/-0.000  $\chi^2/\text{NDF}$ : 29626.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0r03Y\_mean vs Slug



Right In: -0.229+/-0.000  $\chi^2/\text{NDF}$ : 1310668647.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.326+/-0.000  $\chi^2/\text{NDF}$ : 2219980696.6/7

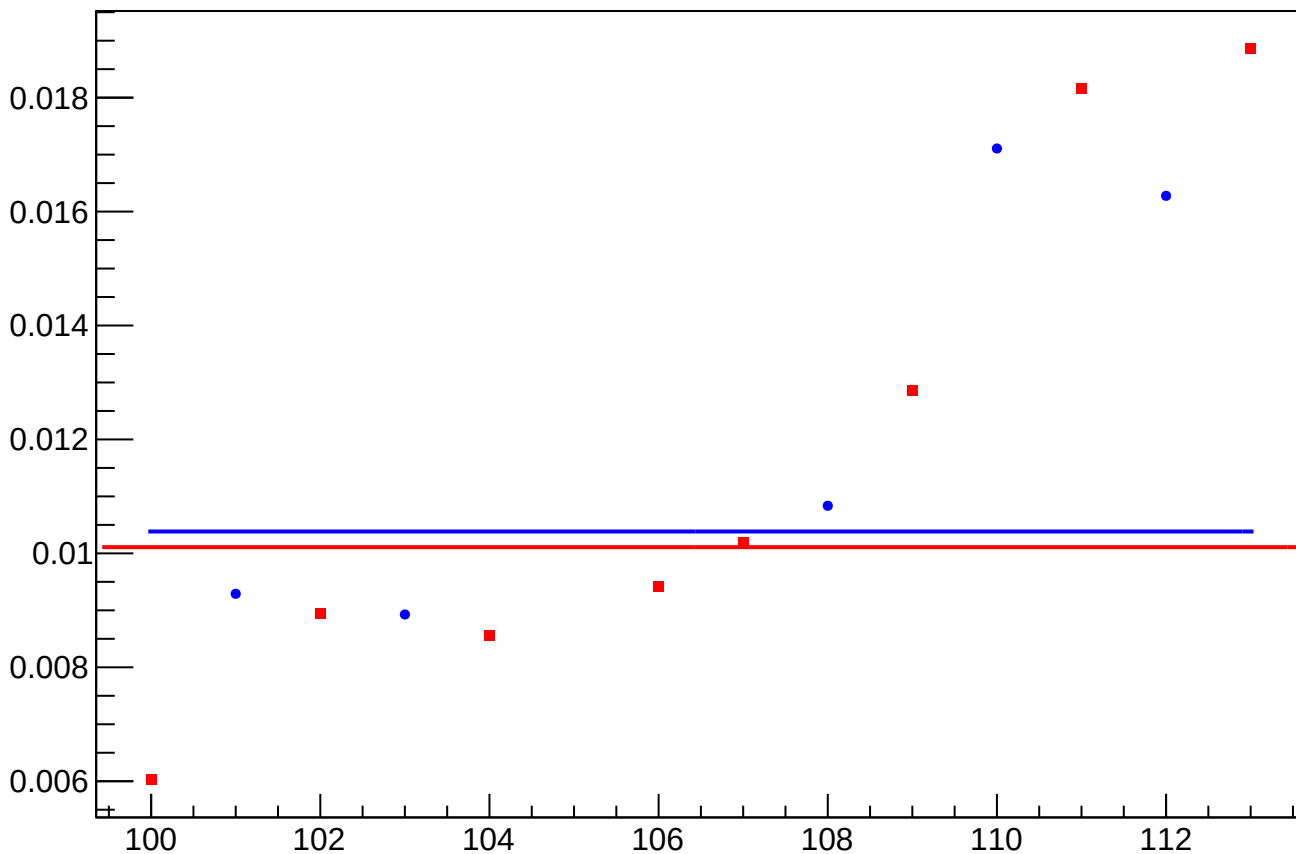
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.284+/-0.000  $\chi^2/\text{NDF}$ : 3641056947.4/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r03Y\_rms vs Slug



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 264149.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 515381.2/7

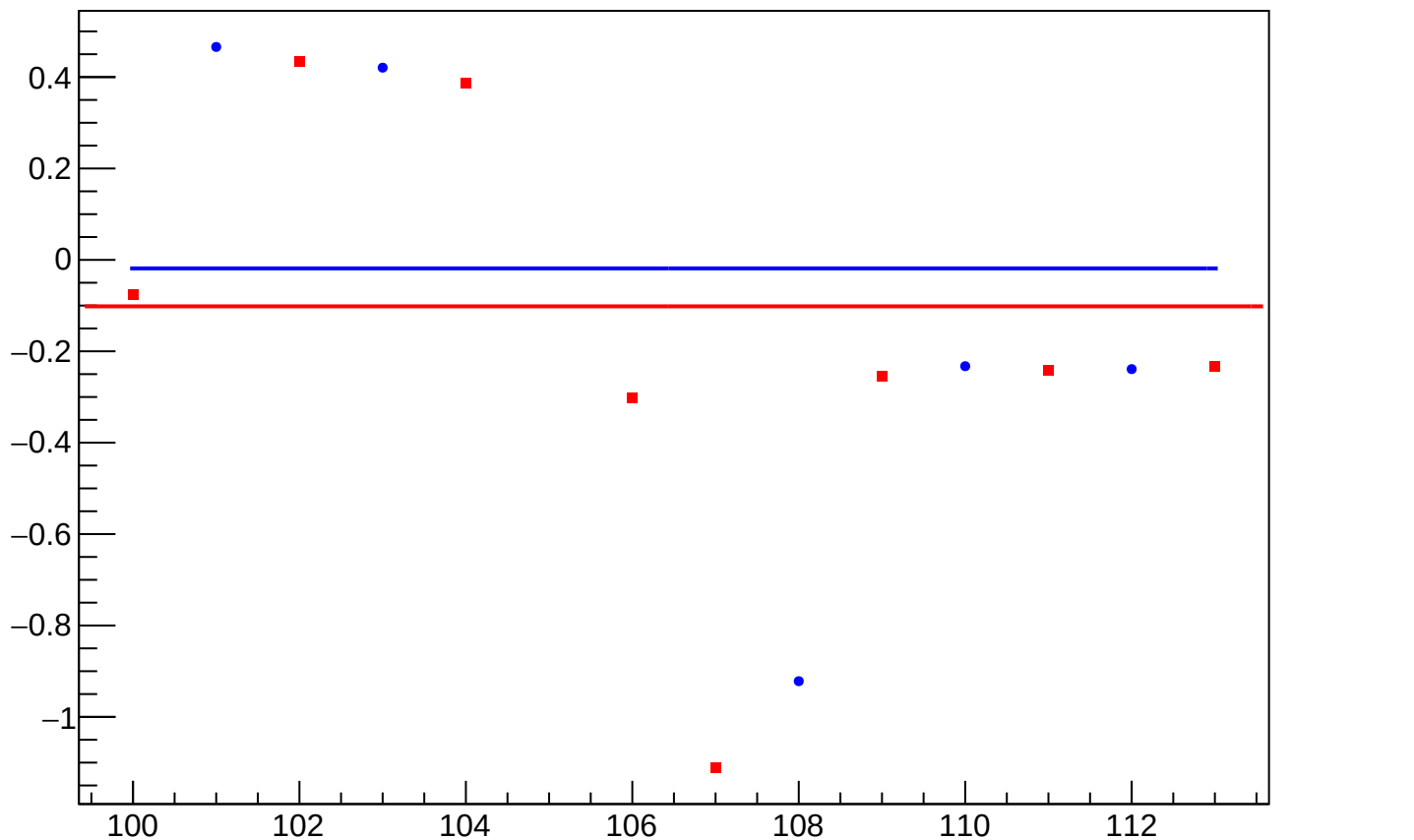
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 781280.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05X\_mean vs Slug



Right In: -0.019+/-0.000  $\chi^2/\text{NDF}$ : 80296477.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.102+/-0.000  $\chi^2/\text{NDF}$ : 78117898.6/7

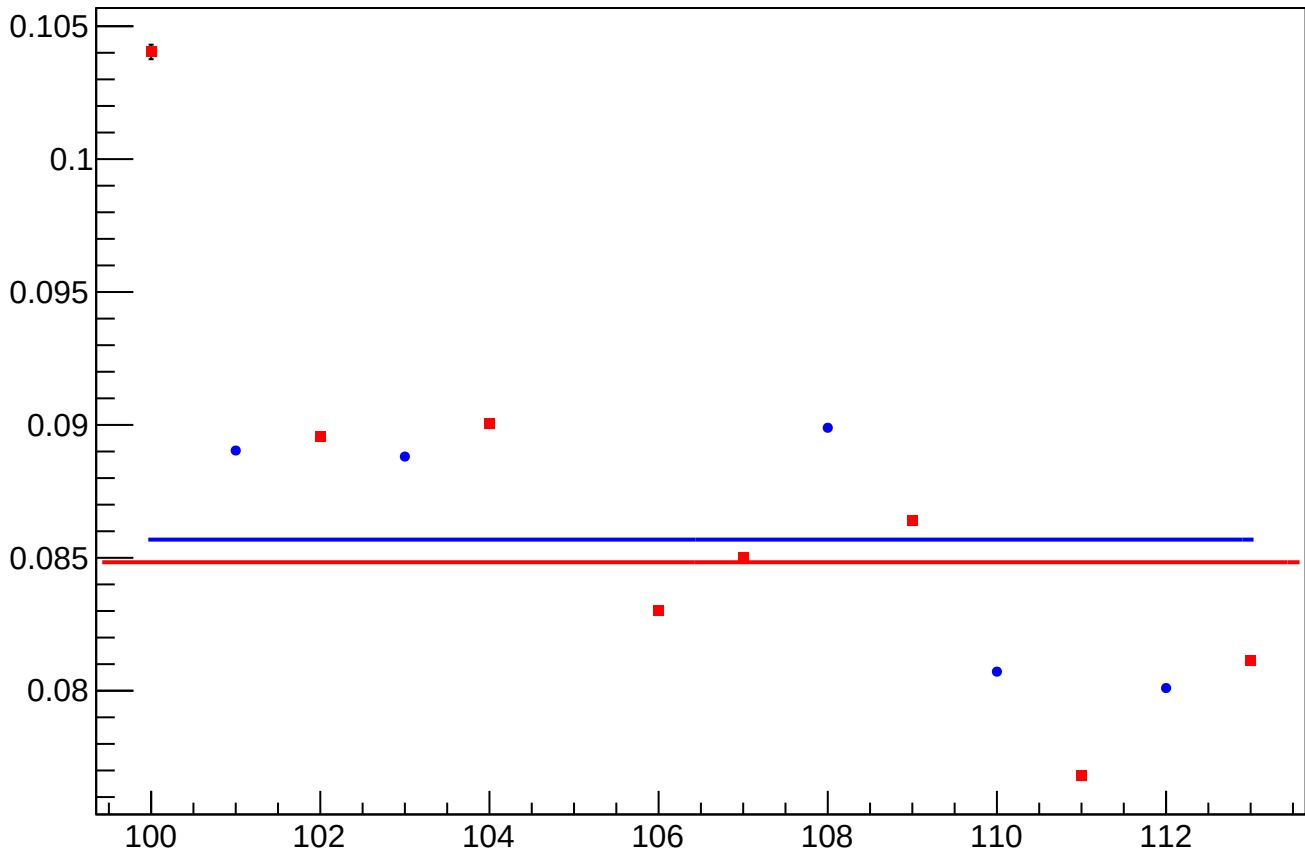
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.066+/-0.000  $\chi^2/\text{NDF}$ : 159757381.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05X\_rms vs Slug



Right In: 0.086+/-0.000  $\chi^2/\text{NDF}$ : 12761.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.085+/-0.000  $\chi^2/\text{NDF}$ : 24360.1/7

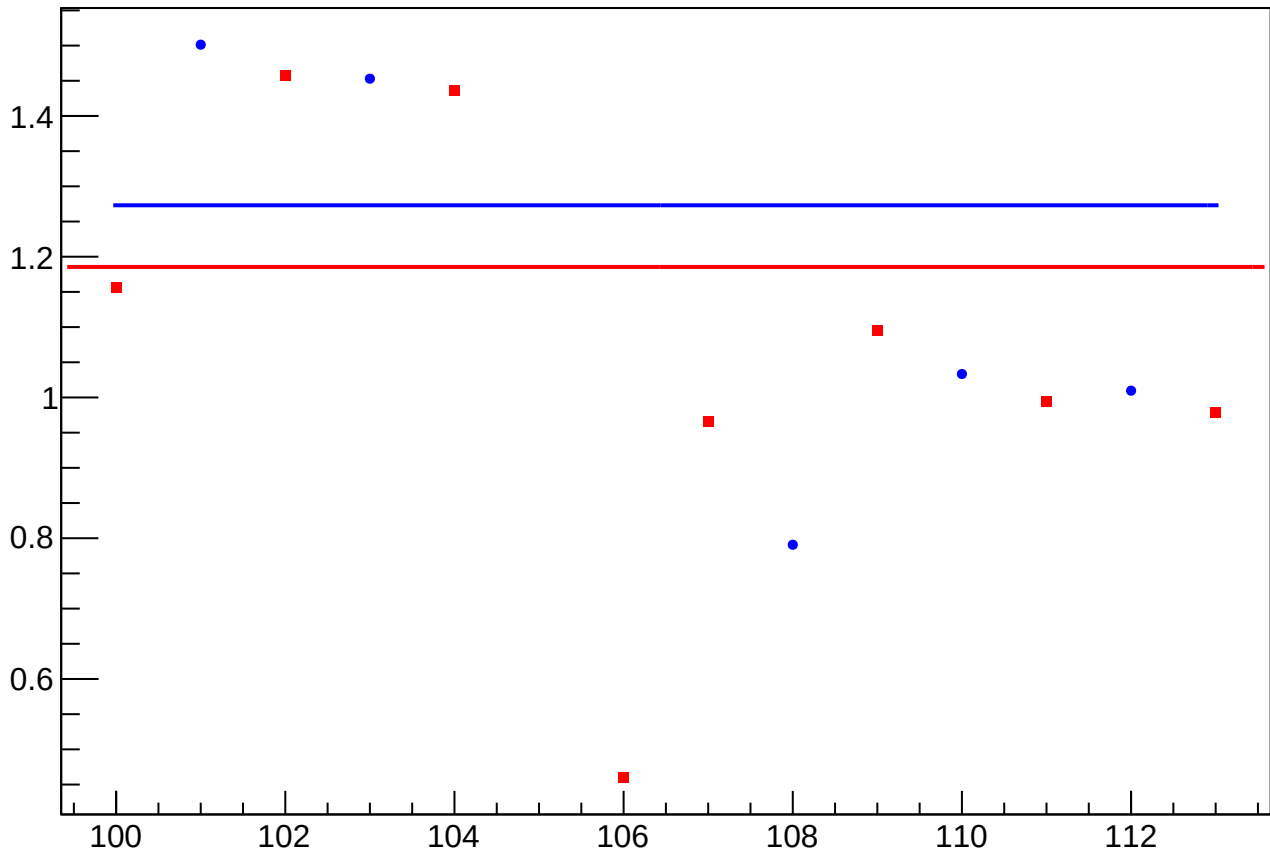
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.085+/-0.000  $\chi^2/\text{NDF}$ : 37403.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05Y\_mean vs Slug



Right In: 1.273 $\pm$ 0.000  $\chi^2$ /NDF: 883658820.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.185 $\pm$ 0.000  $\chi^2$ /NDF: 1290720206.3/7

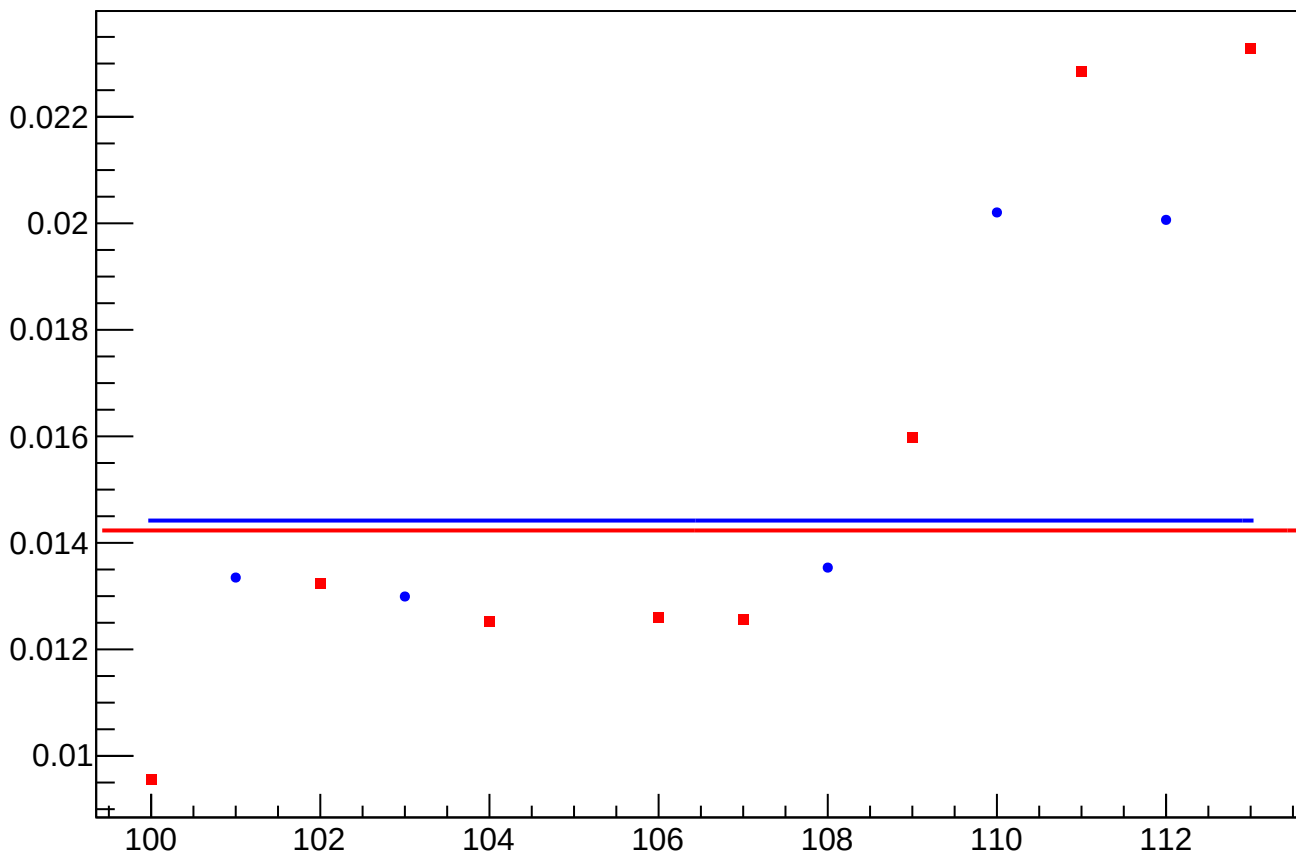
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.224 $\pm$ 0.000  $\chi^2$ /NDF: 2221128780.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r05Y\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 145489.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 331117.4/7

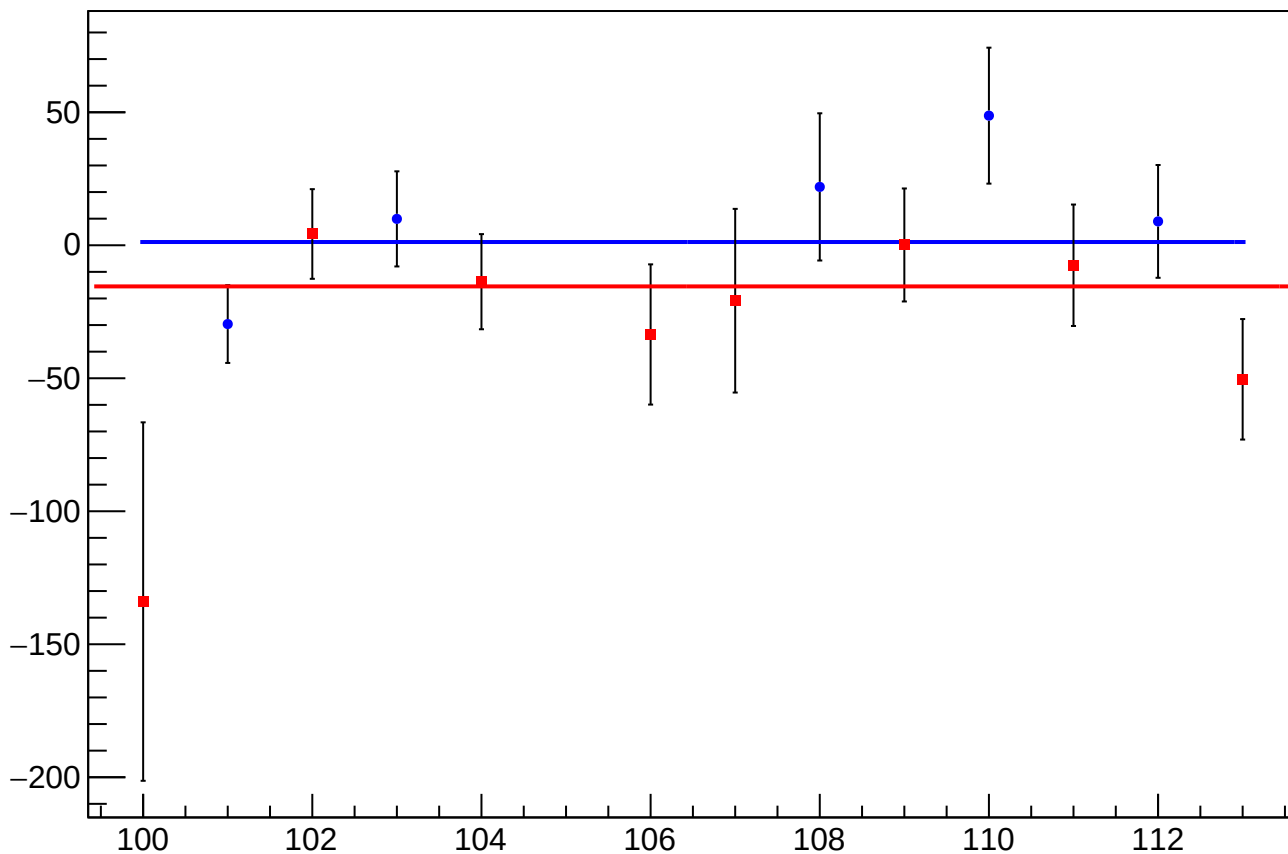
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 477028.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aX\_mean vs Slug



Right In:  $1.223 \pm 8.816$   $\chi^2/\text{NDF}: 8.8/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-15.466 \pm 8.104$   $\chi^2/\text{NDF}: 8.0/7$

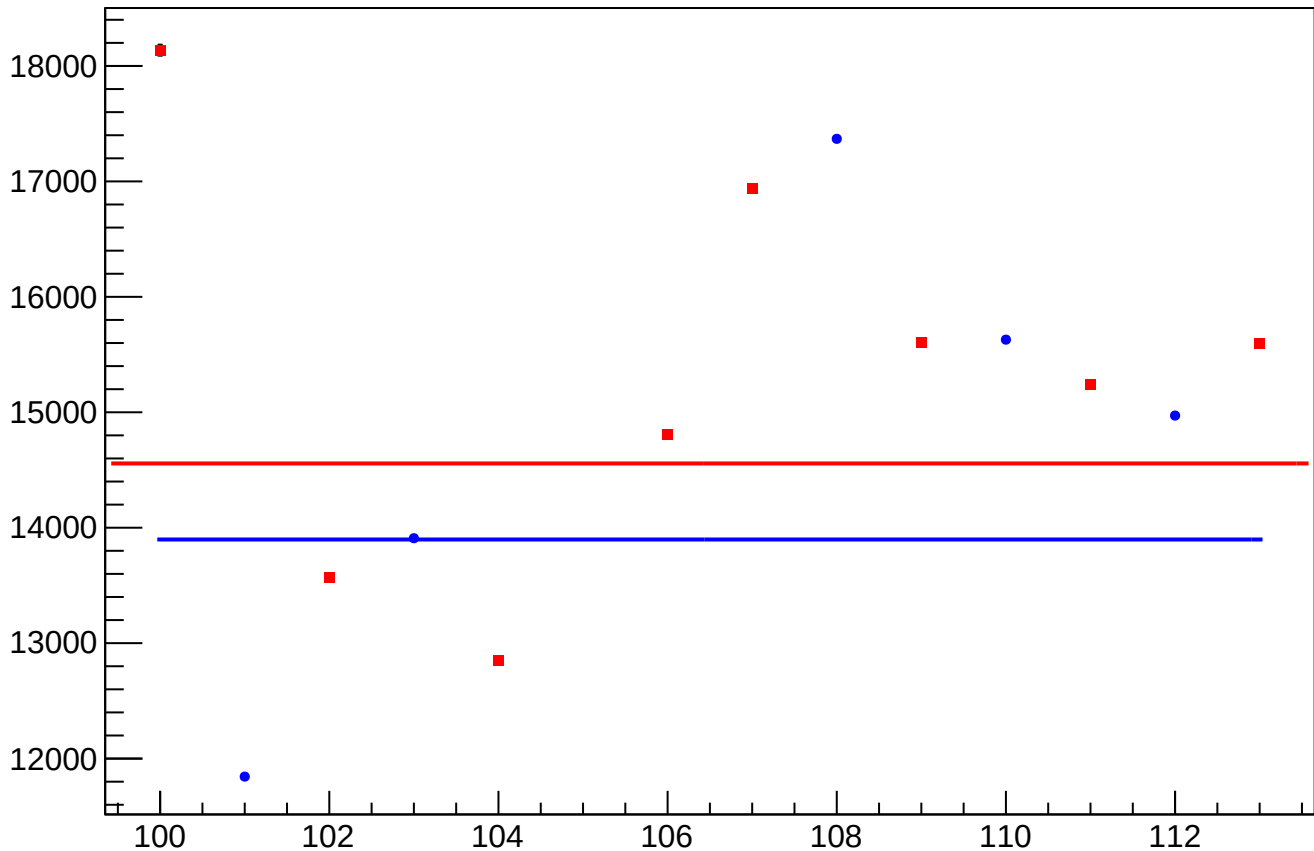
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-7.823 \pm 5.966$   $\chi^2/\text{NDF}: 18.8/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# diff\_bpm4aX\_rms vs Slug



Right In: 13897.989 $\pm$ 6.234  $\chi^2$ /NDF: 85226.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14556.788 $\pm$ 5.730  $\chi^2$ /NDF: 51368.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

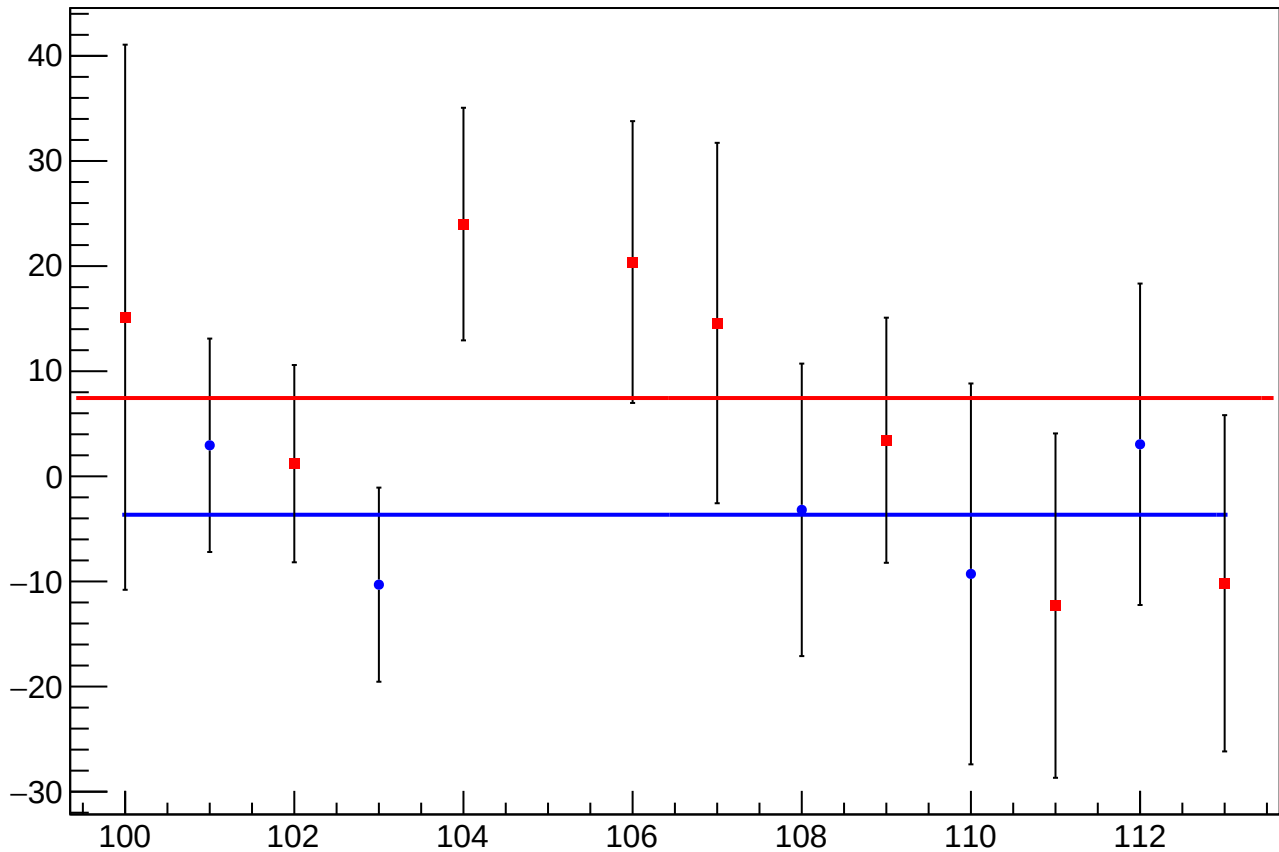
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 14255.085 $\pm$ 4.219  $\chi^2$ /NDF: 142647.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm4aY\_mean vs Slug



Right In: -3.654+/-5.429  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.449+/-4.716  $\chi^2/\text{NDF}$ : 6.7/7

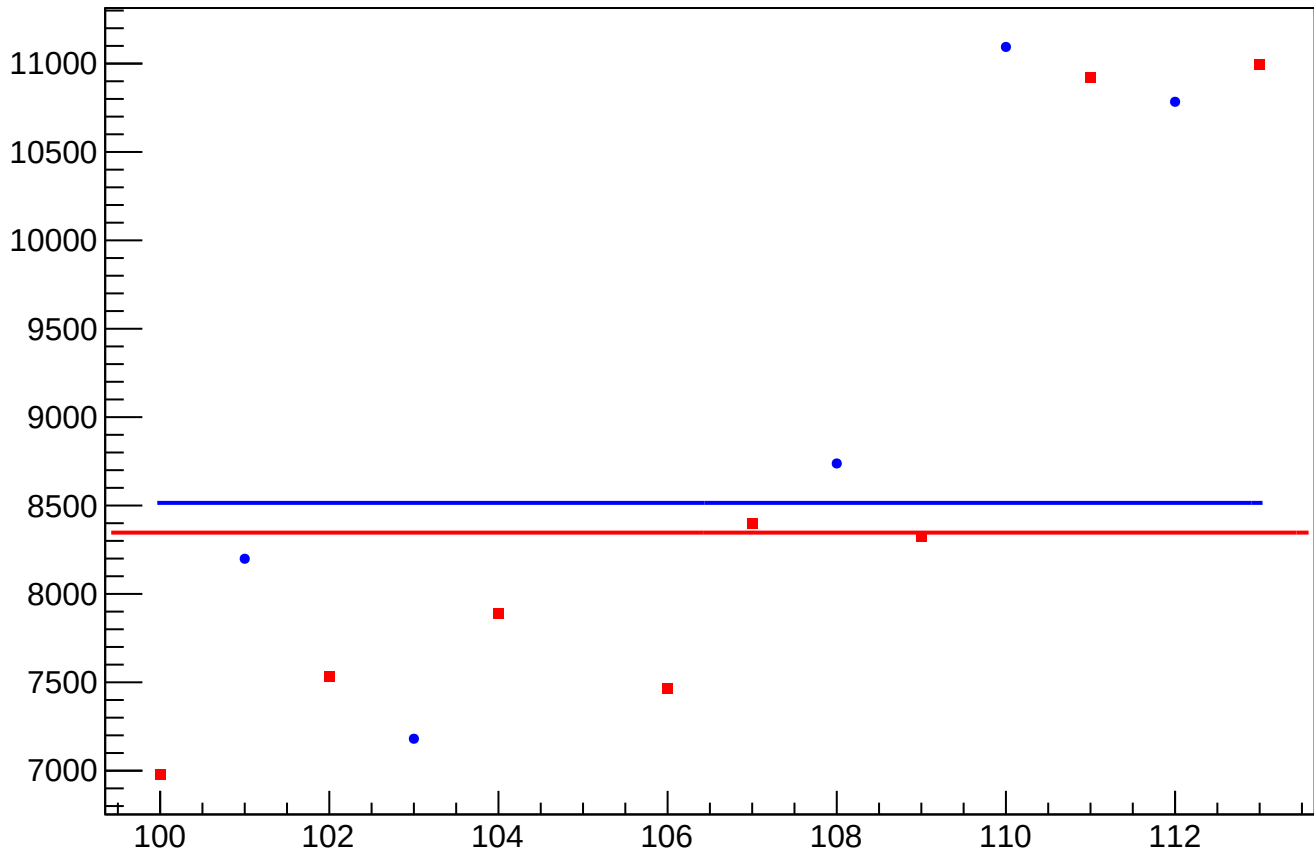
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.675+/-3.560  $\chi^2/\text{NDF}$ : 10.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aY\_rms vs Slug



Right In: 8515.043 $\pm$ 3.839  $\chi^2$ /NDF: 128783.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8346.829 $\pm$ 3.334  $\chi^2$ /NDF: 137012.3/7

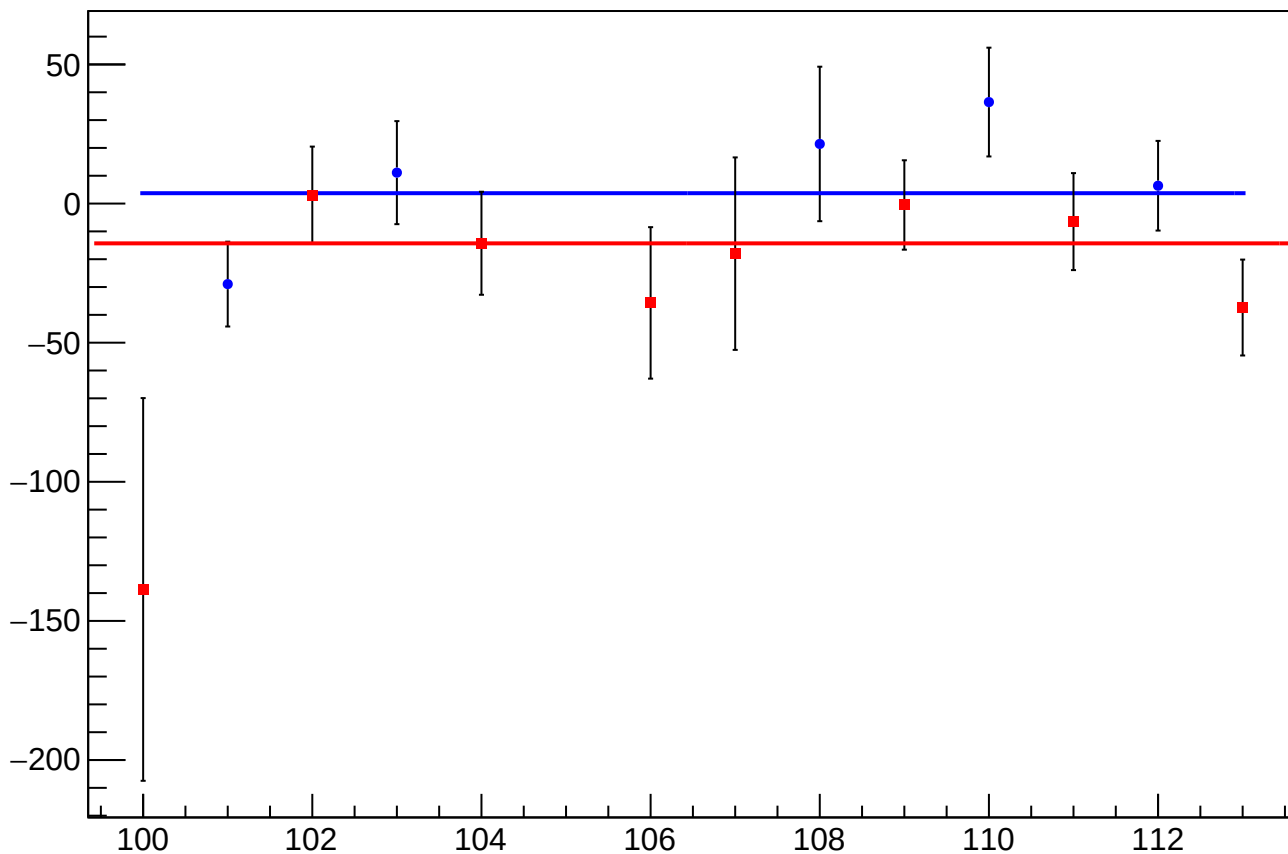
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8419.158 $\pm$ 2.517  $\chi^2$ /NDF: 266889.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm4eX\_mean vs Slug



Right In:  $3.728 \pm 8.170$   $\chi^2/\text{NDF}$ : 8.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-14.302 \pm 7.232$   $\chi^2/\text{NDF}$ : 7.6/7

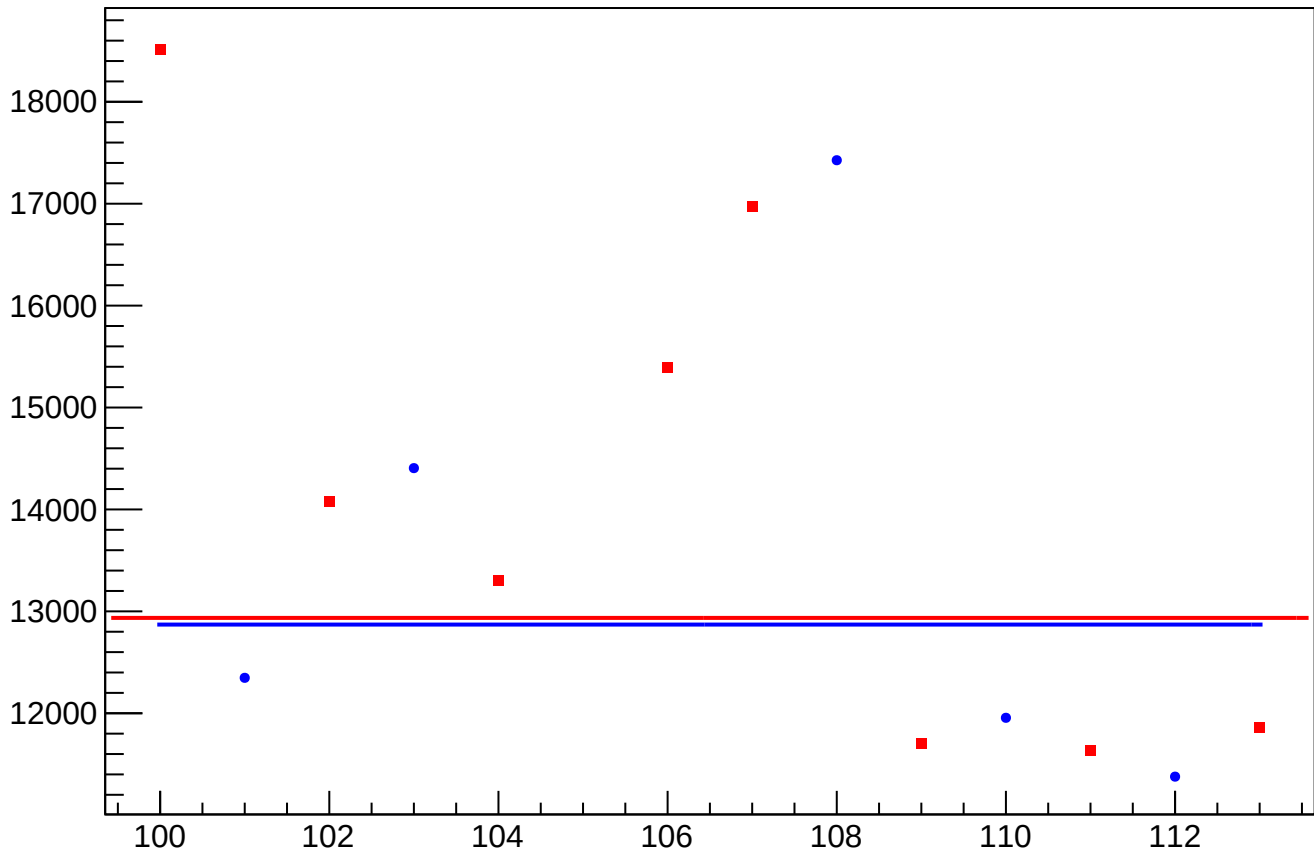
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-6.380 \pm 5.415$   $\chi^2/\text{NDF}$ : 18.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4eX\_rms vs Slug



Right In: 12870.268+/-5.777  $\chi^2/\text{NDF}$ : 91491.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12935.767+/-5.114  $\chi^2/\text{NDF}$ : 96429.6/7

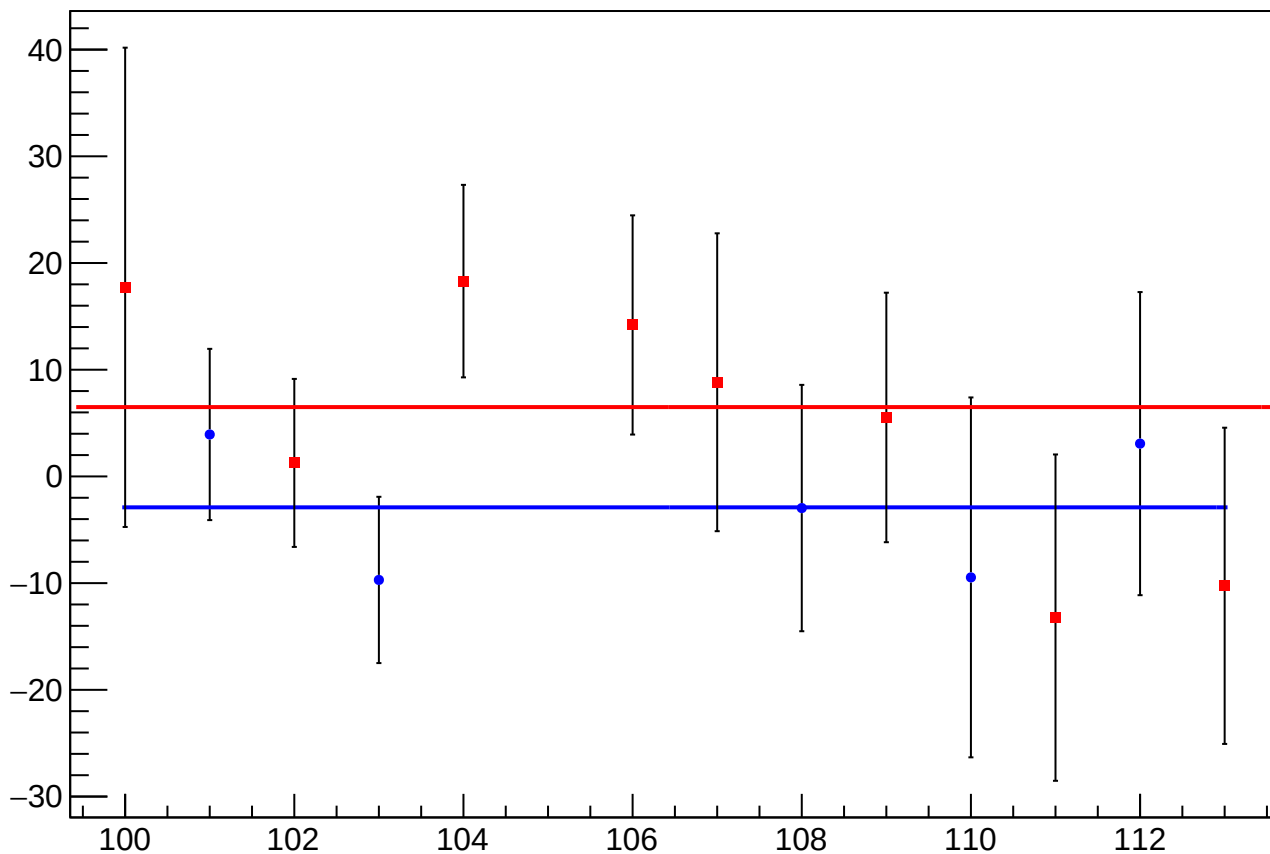
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12906.990+/-3.829  $\chi^2/\text{NDF}$ : 187993.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4eY\_mean vs Slug



Right In: -2.897+/-4.565  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6.498+/-4.043  $\chi^2/\text{NDF}$ : 5.9/7

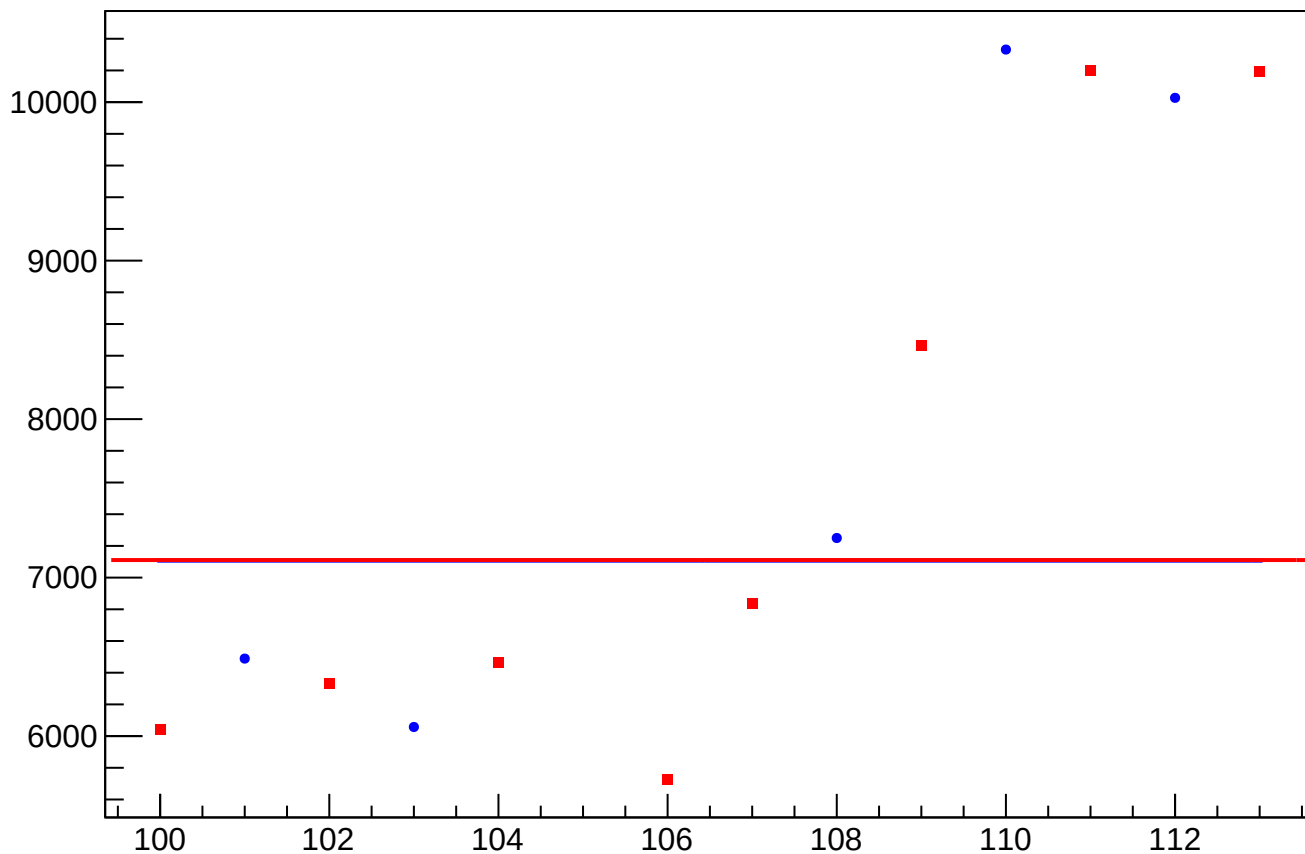
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.368+/-3.027  $\chi^2/\text{NDF}$ : 10.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4eY\_rms vs Slug



Right In: 7107.046 $\pm$ 3.228  $\chi^2$ /NDF: 206128.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7110.757 $\pm$ 2.859  $\chi^2$ /NDF: 266961.2/7

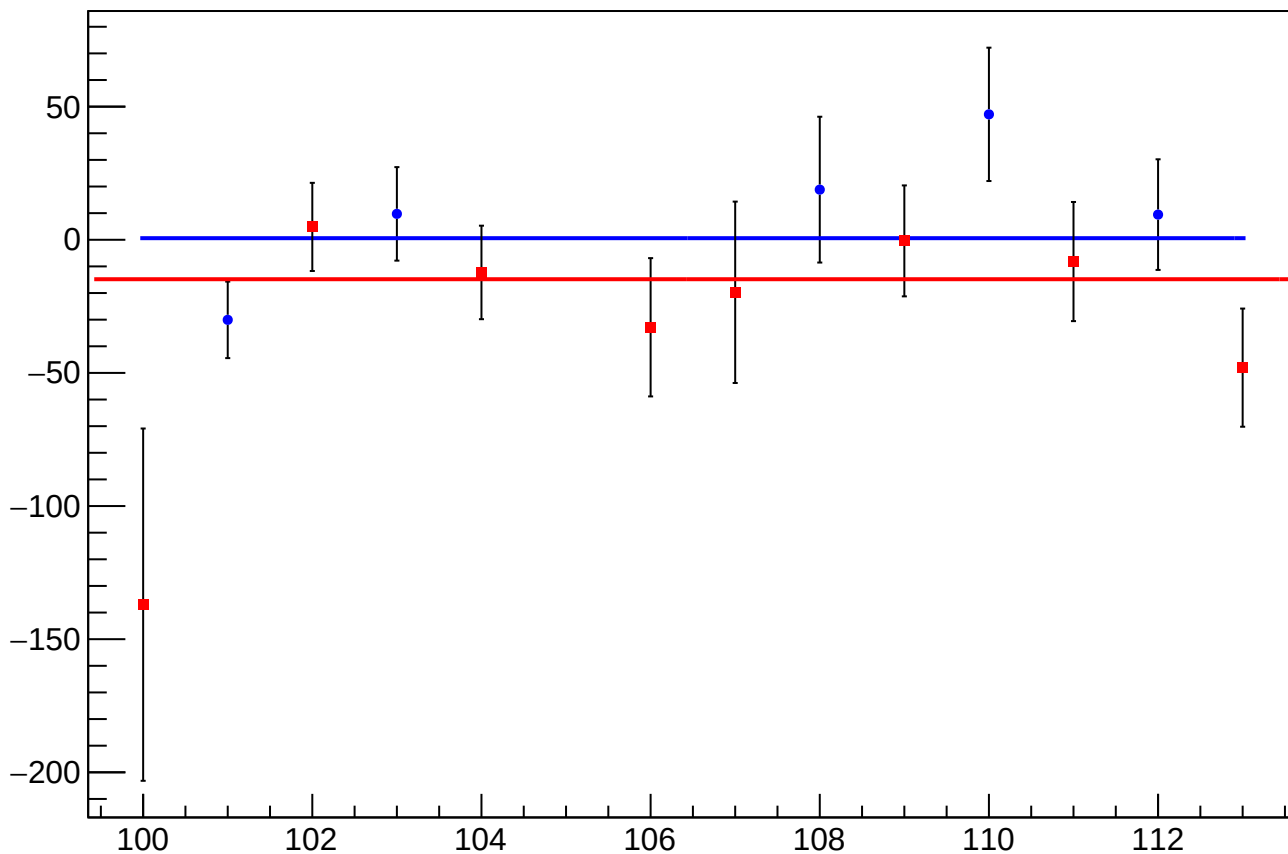
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7109.125 $\pm$ 2.140  $\chi^2$ /NDF: 473090.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm4acX\_mean vs Slug



Right In:  $0.601 \pm 8.660$   $\chi^2/\text{NDF}$ : 8.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-14.813 \pm 7.956$   $\chi^2/\text{NDF}$ : 8.2/7

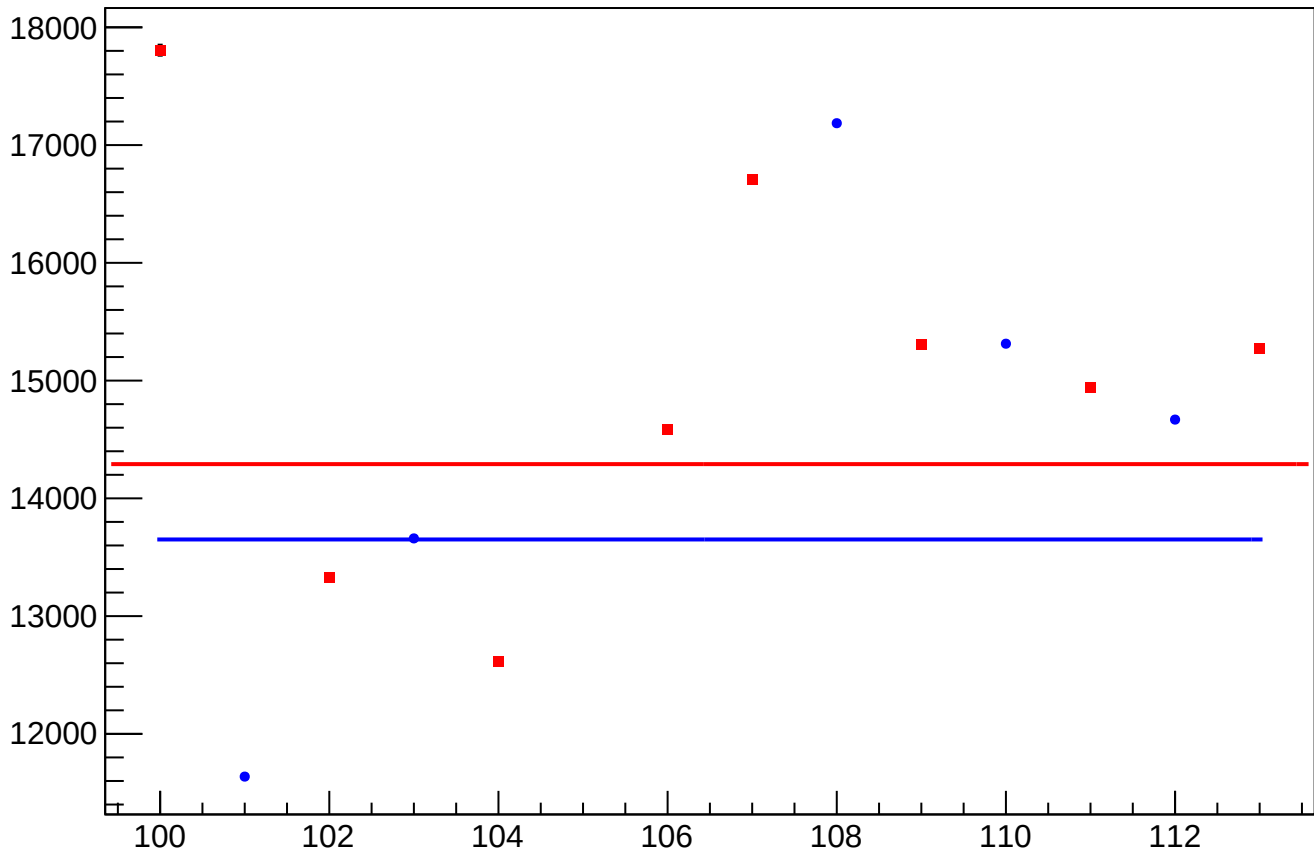
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-7.758 \pm 5.859$   $\chi^2/\text{NDF}$ : 18.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4acX\_rms vs Slug



Right In: 13650.889 $\pm$ 6.124  $\chi^2$ /NDF: 86236.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14290.756 $\pm$ 5.626  $\chi^2$ /NDF: 51405.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

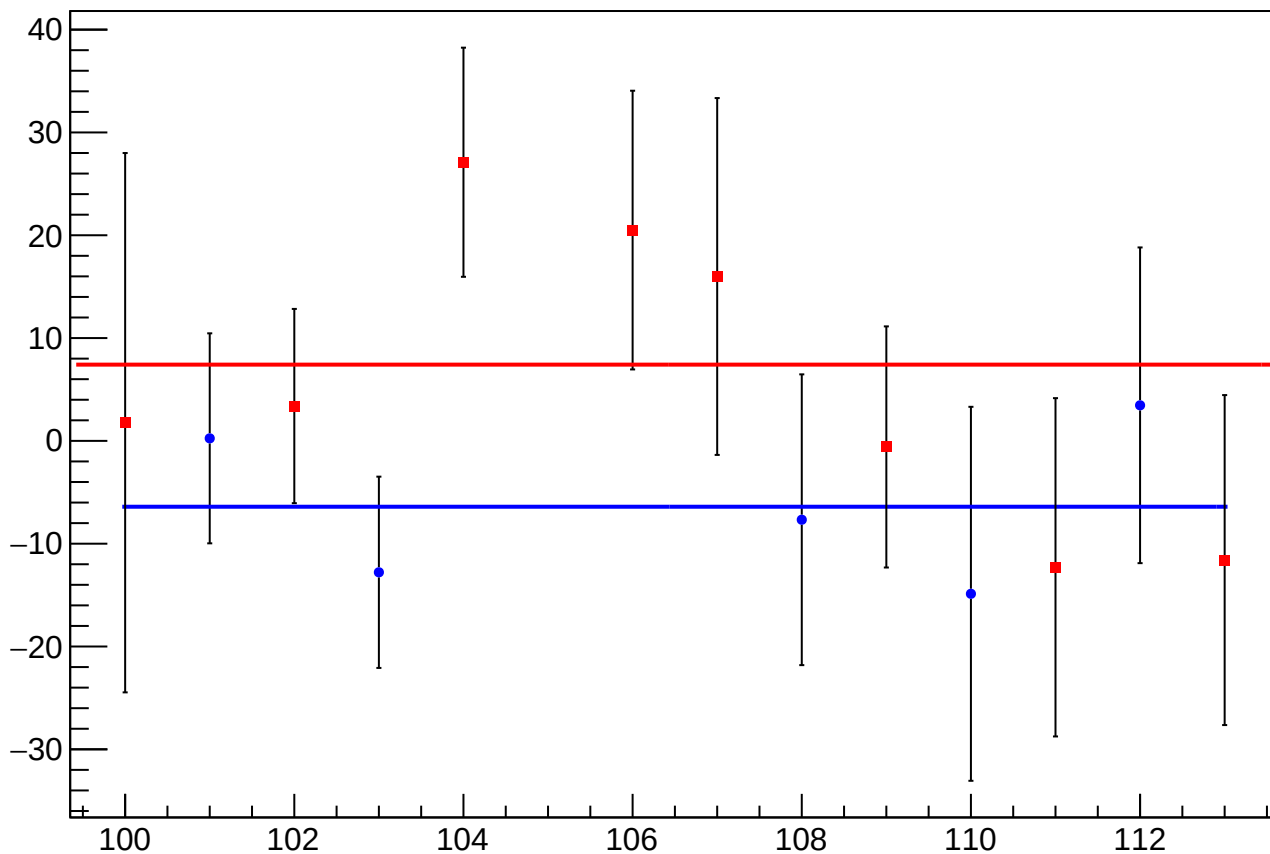
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 13997.907 $\pm$ 4.143  $\chi^2$ /NDF: 143563.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm4acY\_mean vs Slug



Right In: -6.405+/-5.471  $\chi^2/\text{NDF}$ : 1.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.417+/-4.750  $\chi^2/\text{NDF}$ : 7.8/7

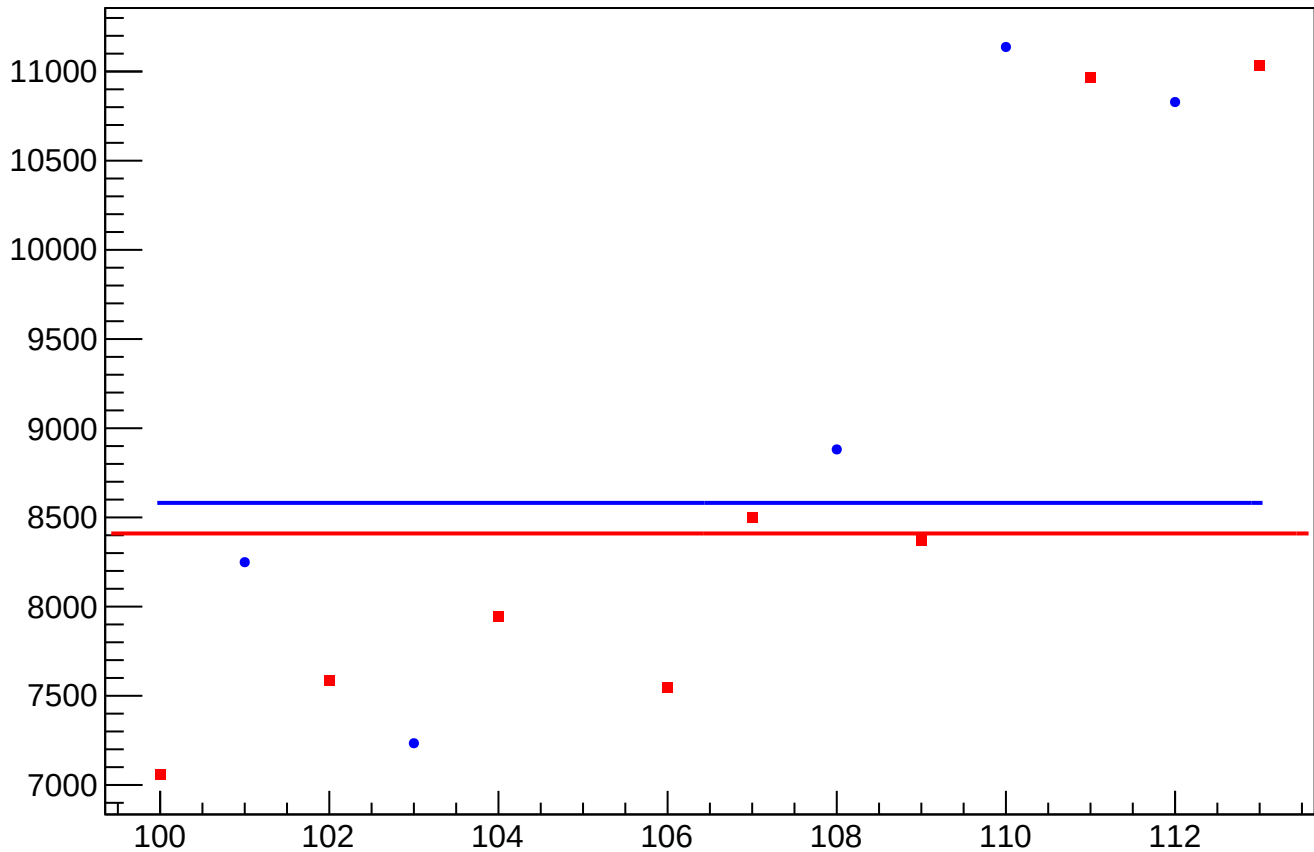
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.476+/-3.587  $\chi^2/\text{NDF}$ : 13.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4acY\_rms vs Slug



Right In: 8581.503+/-3.869  $\chi^2/\text{NDF}$ : 127327.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8410.055+/-3.359  $\chi^2/\text{NDF}$ : 133946.8/7

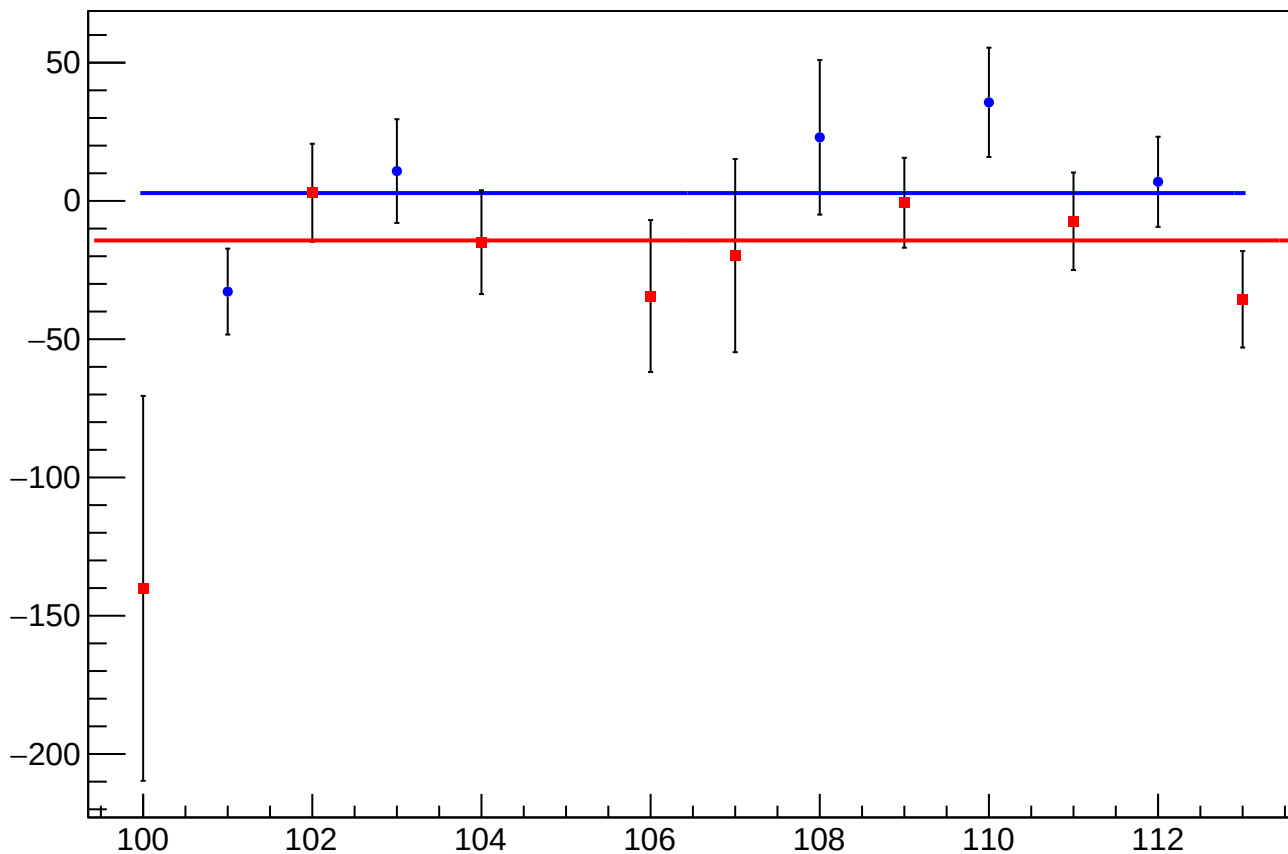
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8483.745+/-2.536  $\chi^2/\text{NDF}$ : 262394.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4ecX\_mean vs Slug



Right In:  $2.839 \pm 8.279$   $\chi^2/\text{NDF}$ : 8.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-14.290 \pm 7.317$   $\chi^2/\text{NDF}$ : 7.1/7

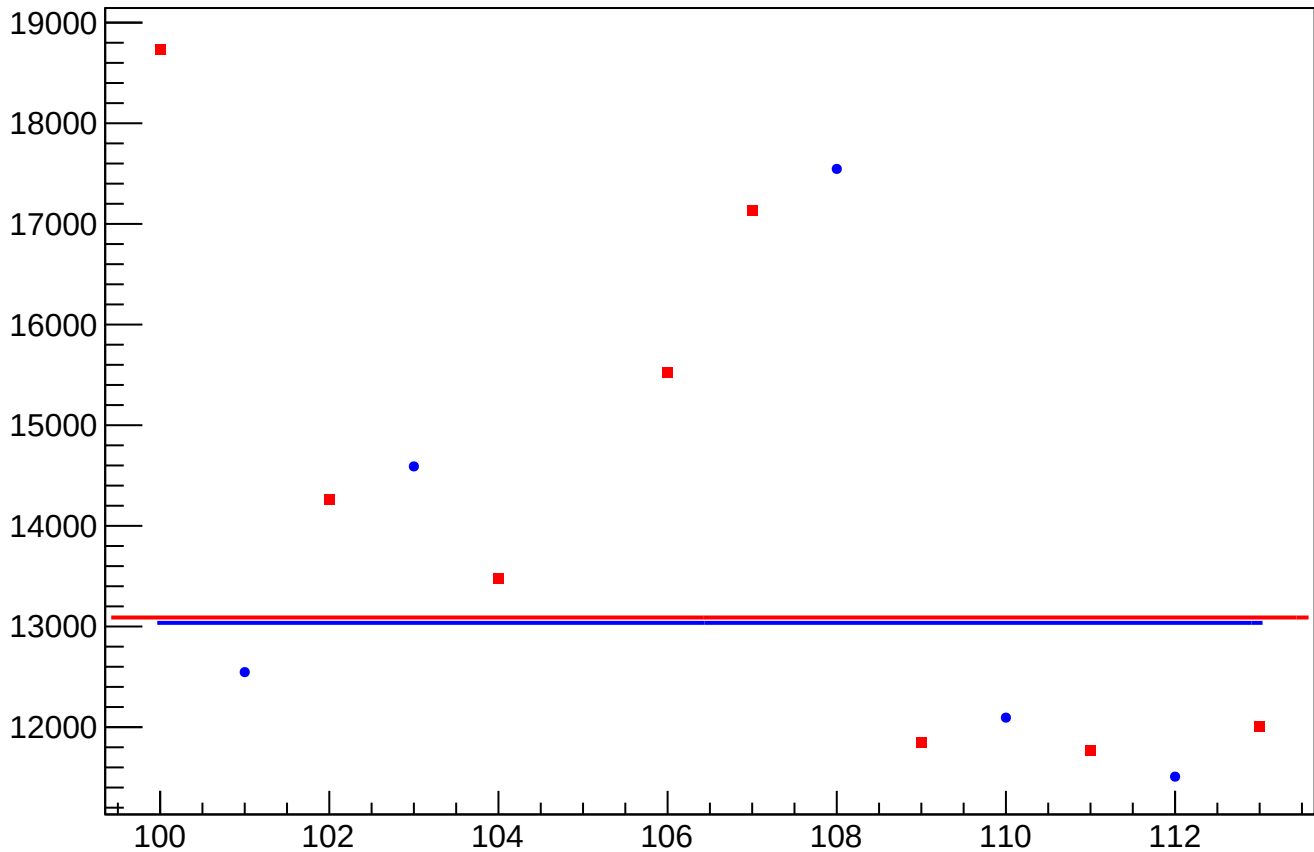
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-6.778 \pm 5.483$   $\chi^2/\text{NDF}$ : 18.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4ecX\_rms vs Slug



Right In: 13036.421+/-5.854  $\chi^2/\text{NDF}$ : 89897.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13089.458+/-5.174  $\chi^2/\text{NDF}$ : 95948.5/7

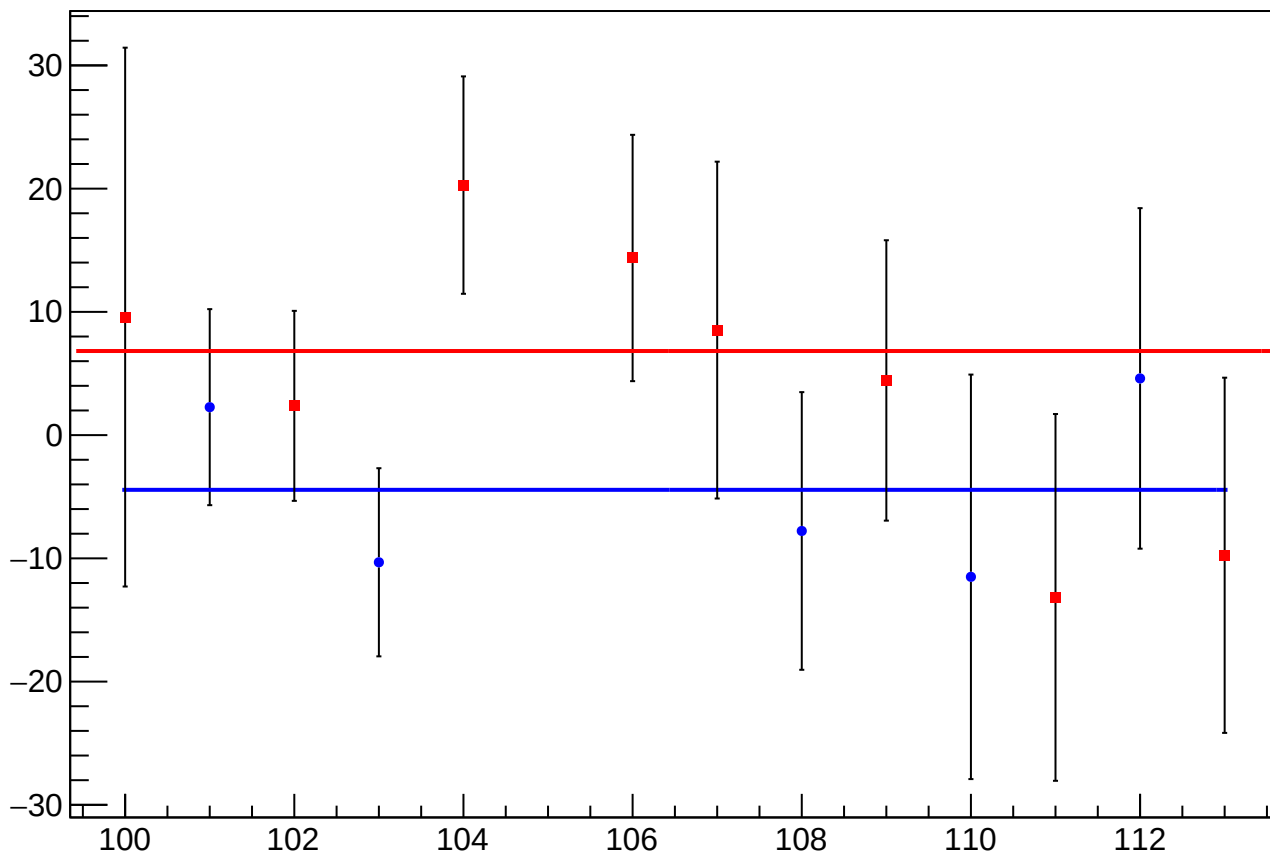
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13066.198+/-3.877  $\chi^2/\text{NDF}$ : 185892.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4ecY\_mean vs Slug



Right In: -4.439+/-4.481  $\chi^2/\text{NDF}$ : 2.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6.825+/-3.947  $\chi^2/\text{NDF}$ : 6.4/7

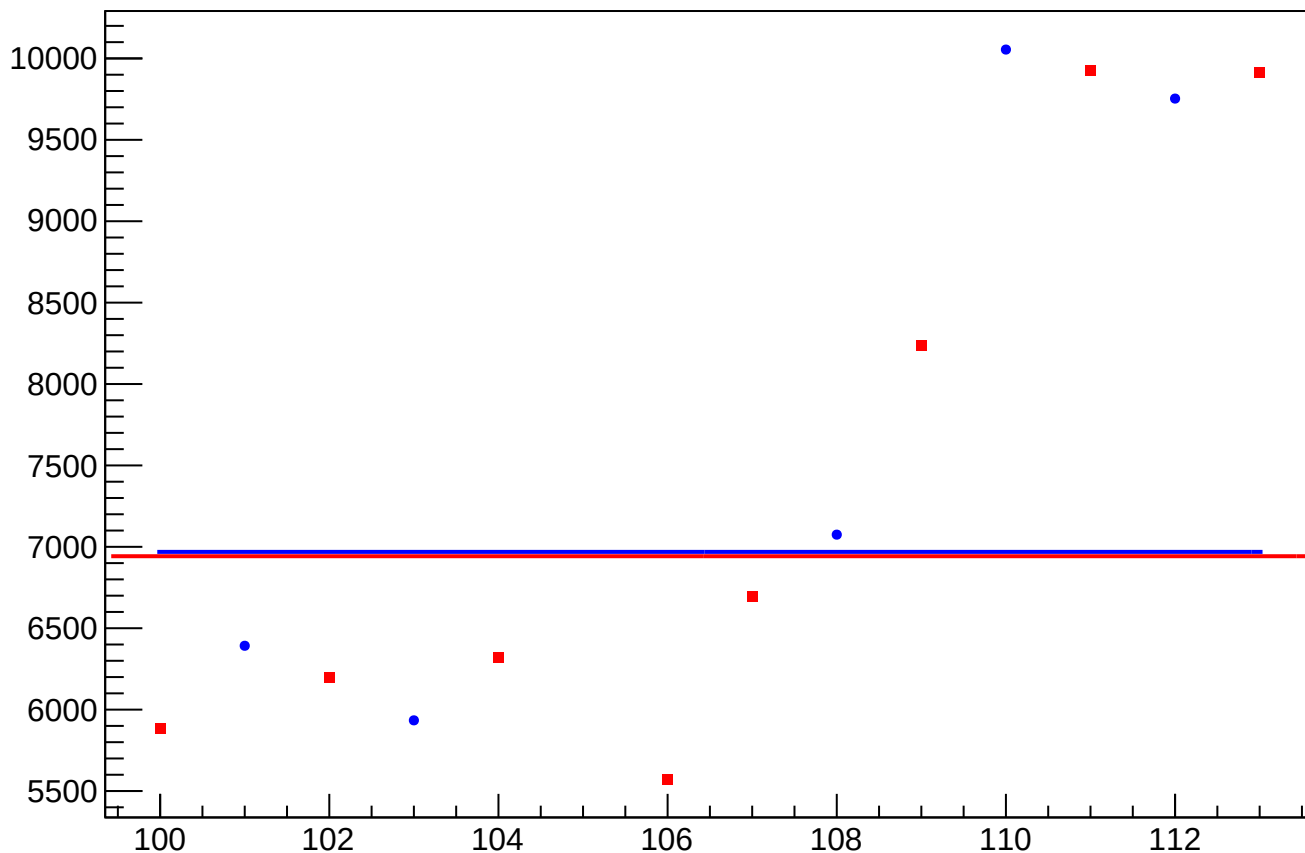
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.904+/-2.962  $\chi^2/\text{NDF}$ : 12.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4ecY\_rms vs Slug



Right In: 6968.968 $\pm$ 3.169  $\chi^2$ /NDF: 199376.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6942.308 $\pm$ 2.791  $\chi^2$ /NDF: 263160.6/7

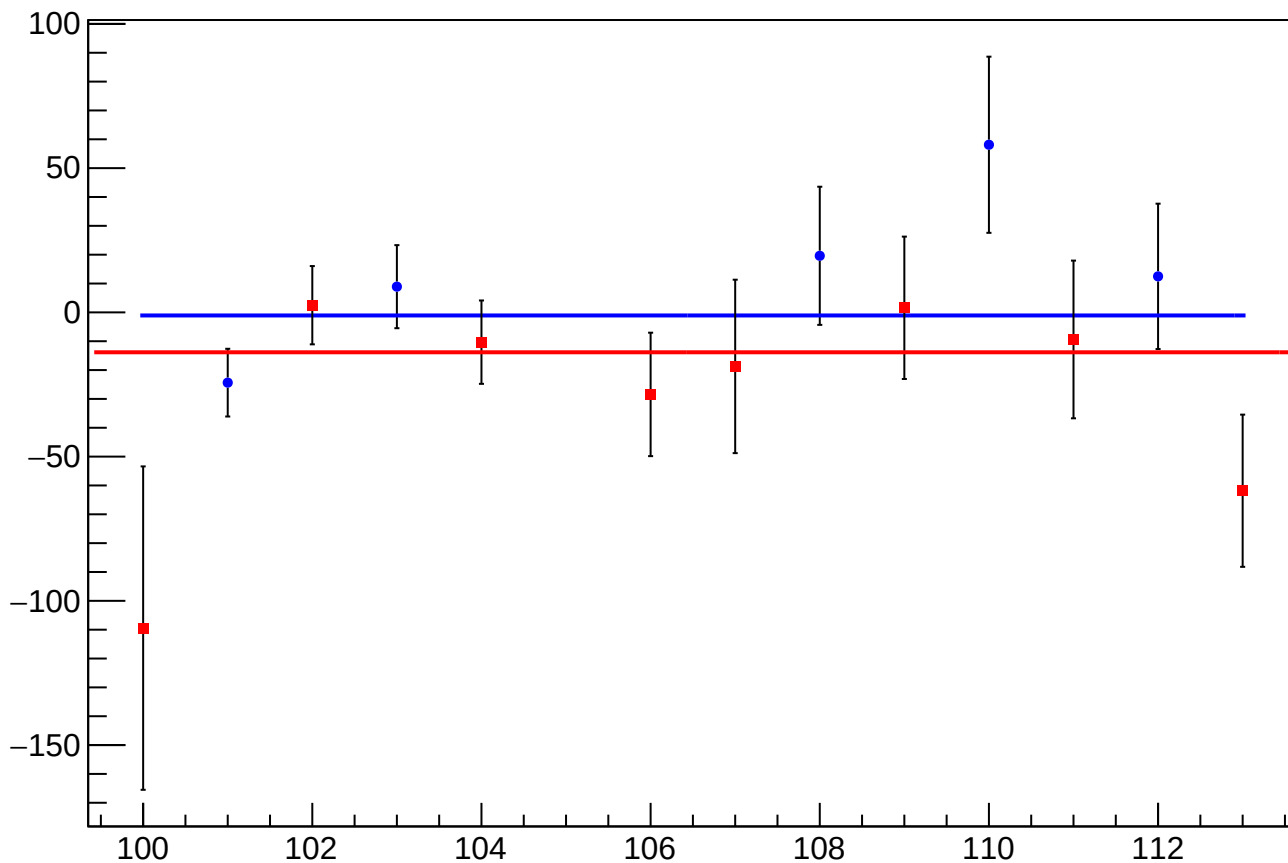
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6953.955 $\pm$ 2.094  $\chi^2$ /NDF: 462576.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1X\_mean vs Slug



Right In:  $-1.069 \pm 7.792$   $\chi^2/\text{NDF}$ : 9.2/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-13.834 \pm 7.403$   $\chi^2/\text{NDF}$ : 8.6/7

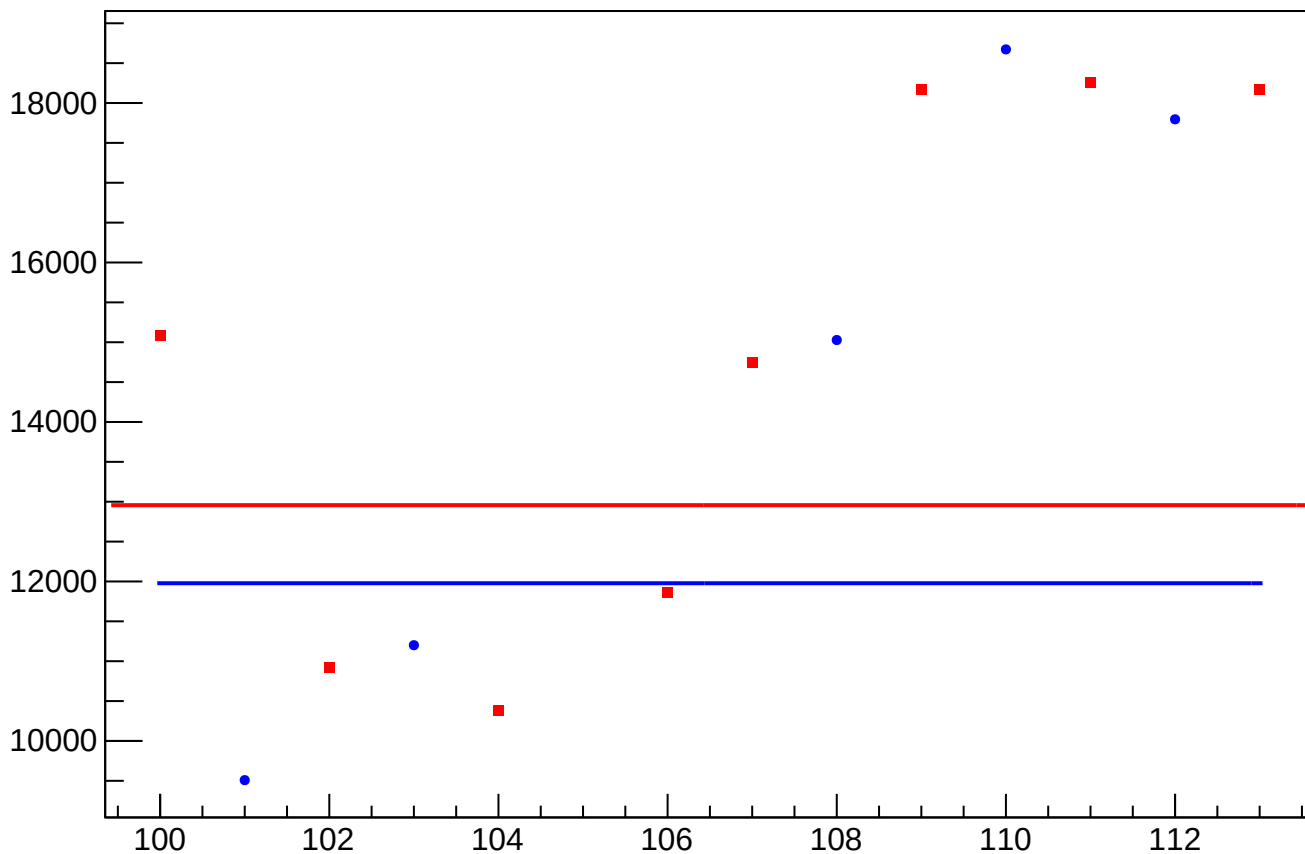
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-7.778 \pm 5.367$   $\chi^2/\text{NDF}$ : 19.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1X\_rms vs Slug



Right In: 11977.797+/-5.510  $\chi^2/\text{NDF}$ : 329544.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12956.749+/-5.235  $\chi^2/\text{NDF}$ : 365914.9/7

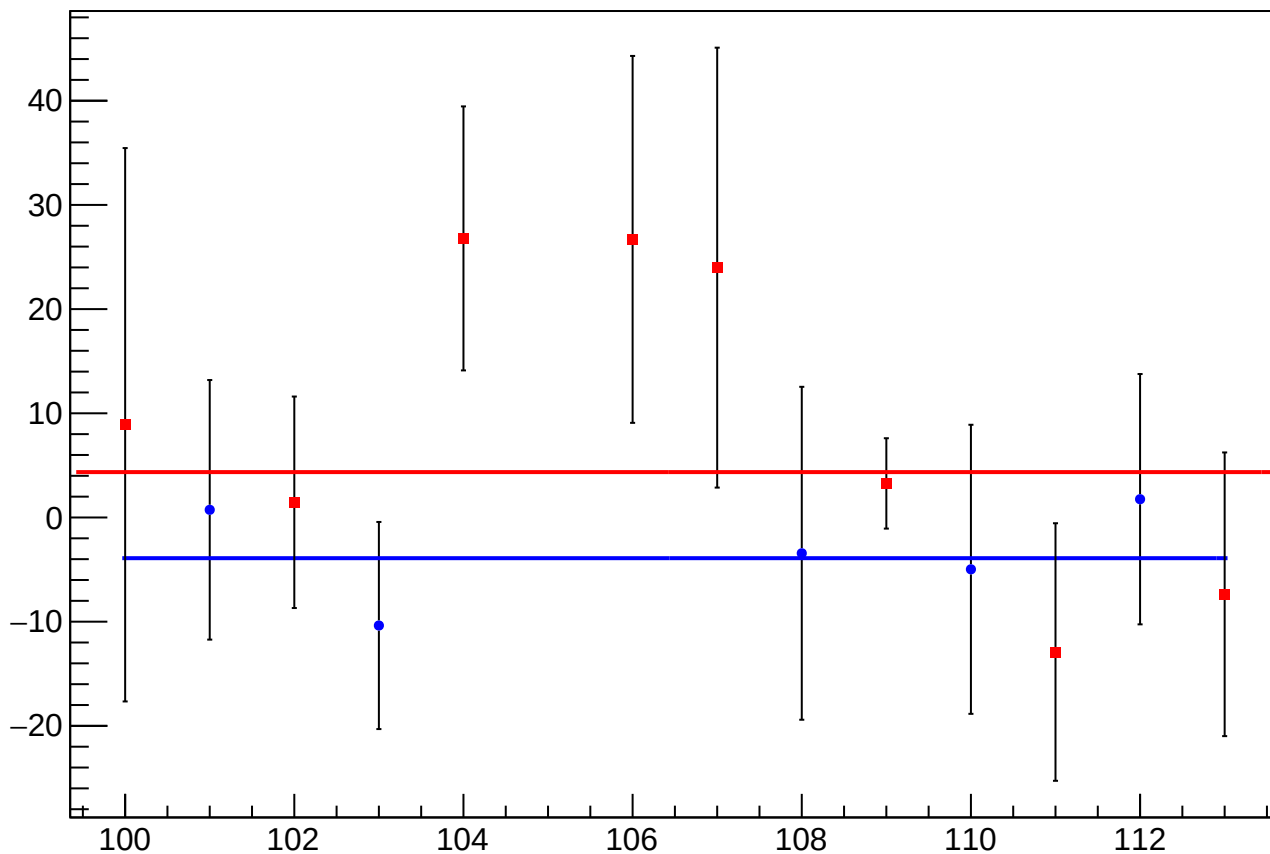
All: 12492.305+/-3.795  $\chi^2/\text{NDF}$ : 712052.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm1Y\_mean vs Slug



Right In: -3.905+/-5.538  $\chi^2/\text{NDF}$ : 0.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.356+/-3.372  $\chi^2/\text{NDF}$ : 8.5/7

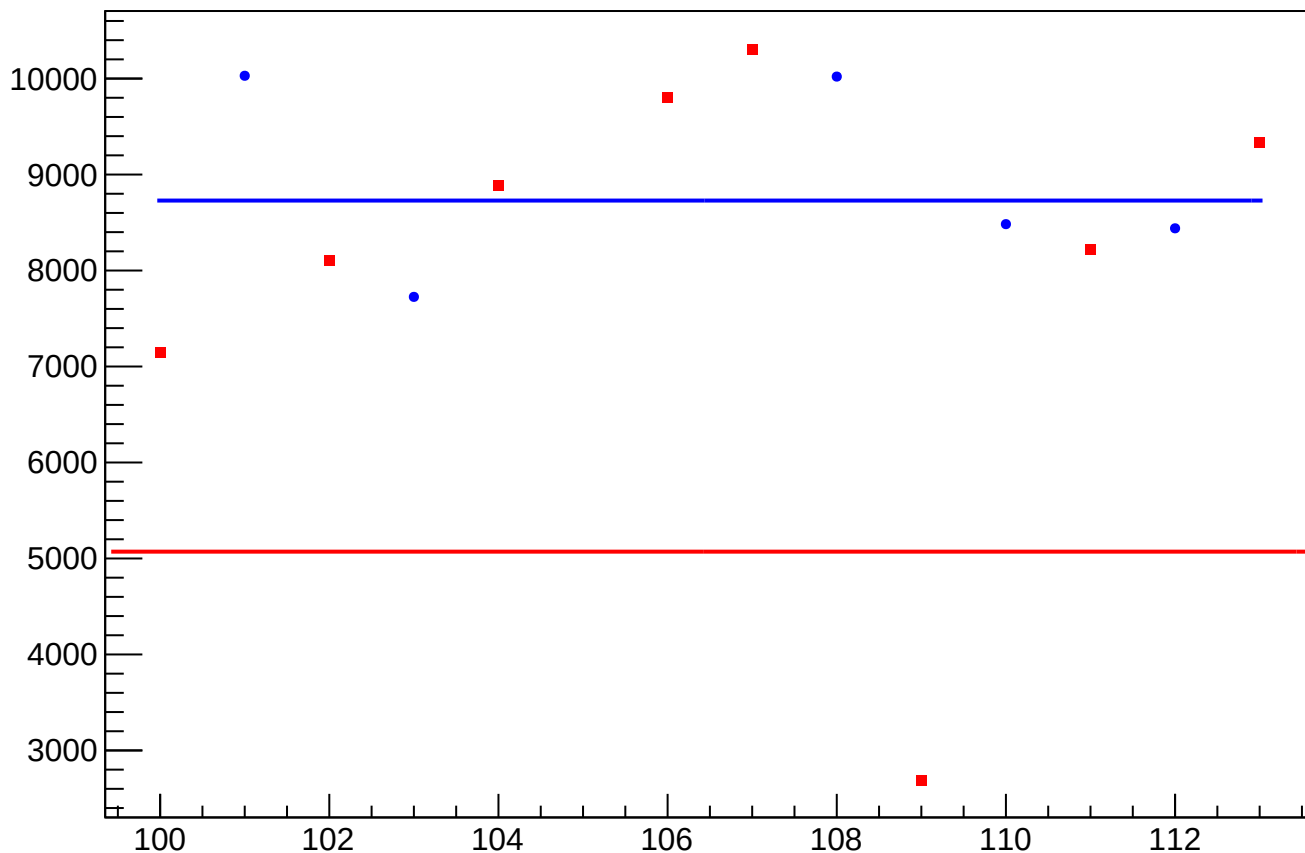
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.122+/-2.880  $\chi^2/\text{NDF}$ : 10.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1Y\_rms vs Slug



Right In: 8729.032 $\pm$ 3.916  $\chi^2$ /NDF: 57027.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5071.138 $\pm$ 2.384  $\chi^2$ /NDF: 1570378.8/7

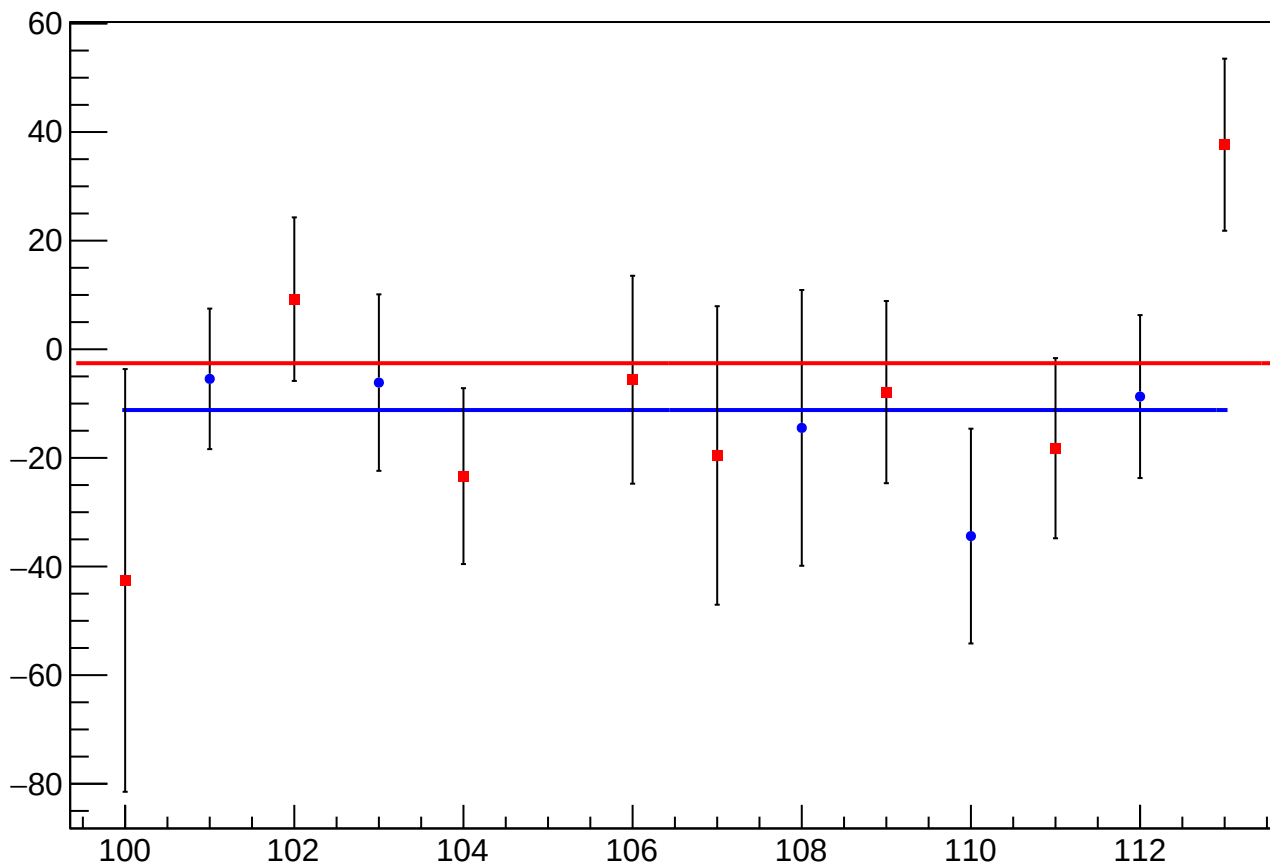
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6060.611 $\pm$ 2.037  $\chi^2$ /NDF: 2263995.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm11X\_mean vs Slug



Right In: -11.189 $\pm$ 7.389  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.564 $\pm$ 6.440  $\chi^2$ /NDF: 11.2/7

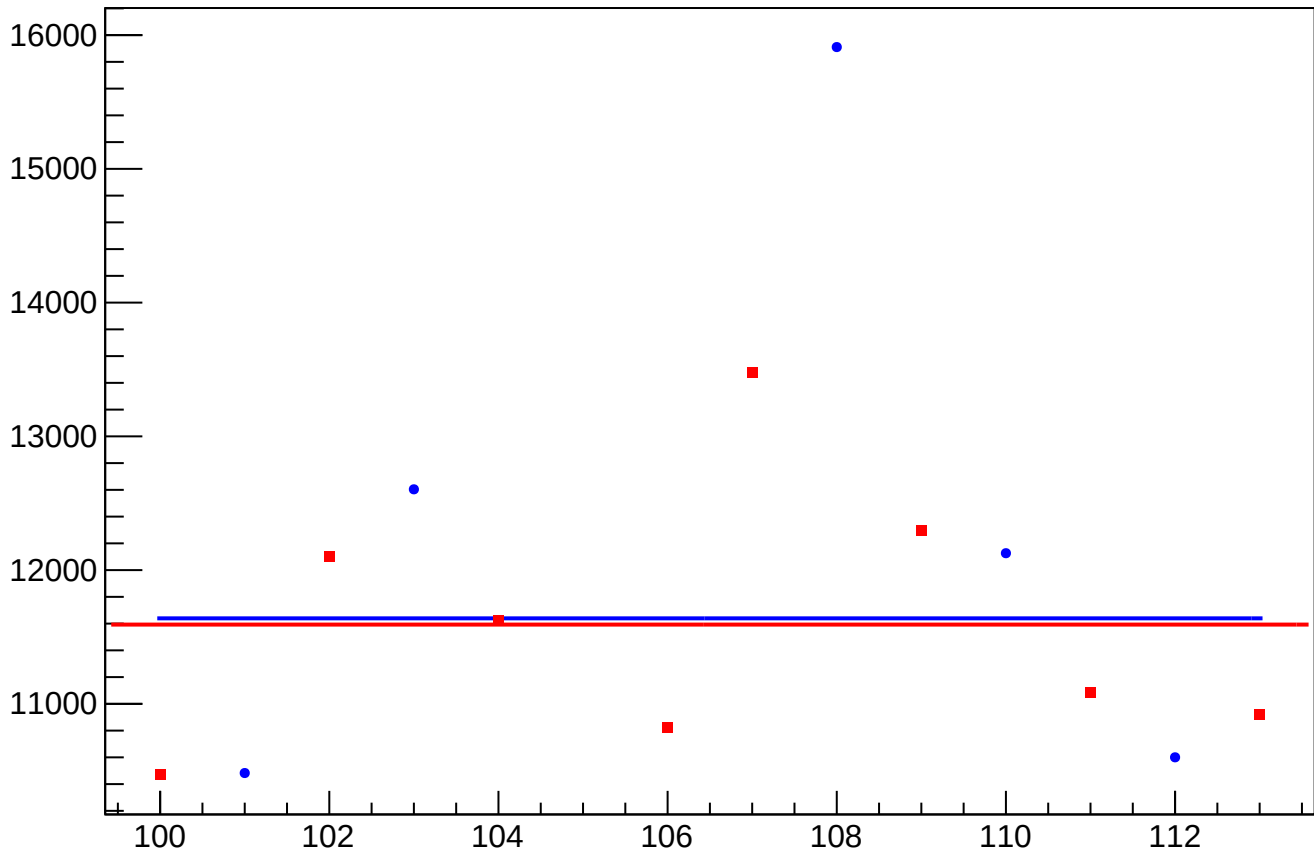
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.287 $\pm$ 4.855  $\chi^2$ /NDF: 13.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm11X\_rms vs Slug



Right In: 11639.301+/-5.225  $\chi^2/\text{NDF}$ : 90448.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11592.661+/-4.554  $\chi^2/\text{NDF}$ : 25585.1/7

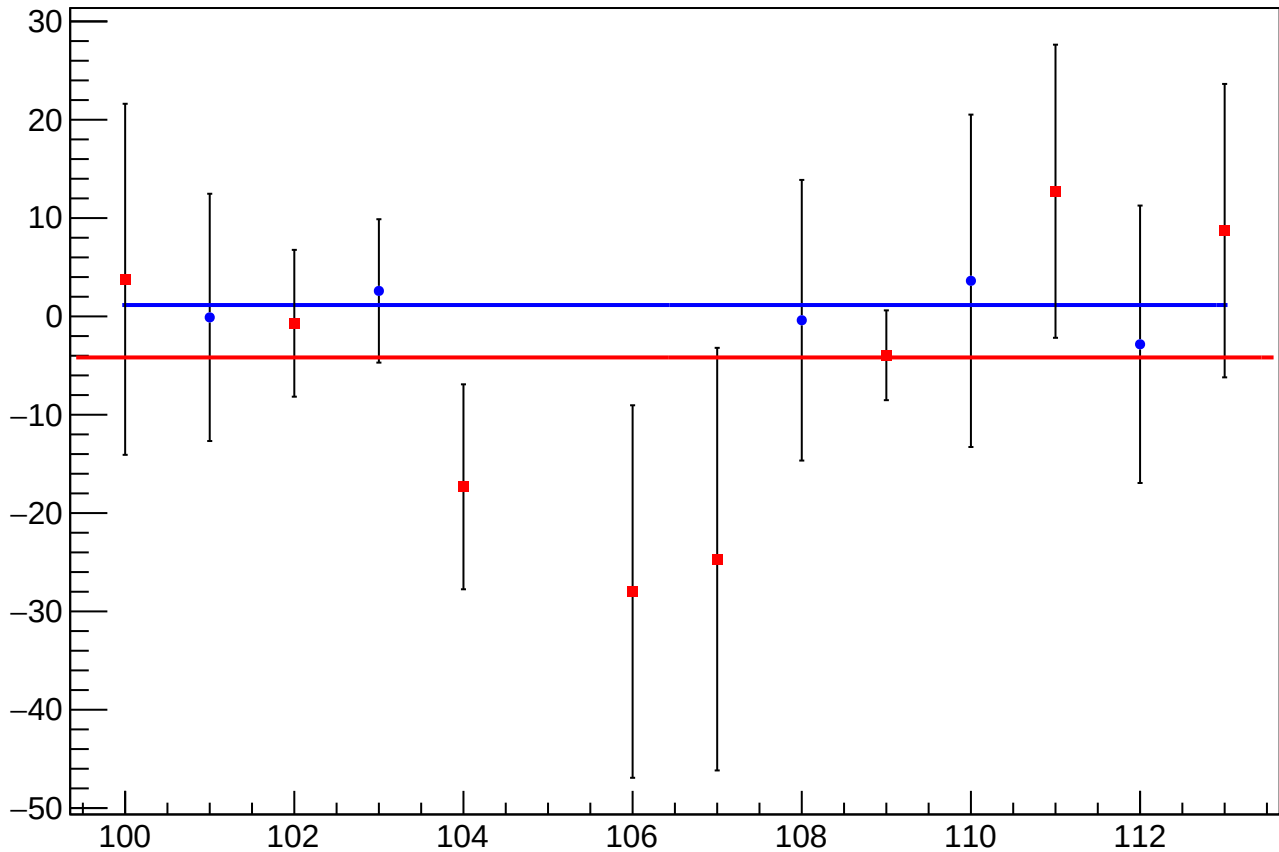
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11612.795+/-3.433  $\chi^2/\text{NDF}$ : 116079.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm11Y\_mean vs Slug



Right In: 1.157 $\pm$ 5.092  $\chi^2$ /NDF: 0.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4.173 $\pm$ 3.294  $\chi^2$ /NDF: 6.5/7

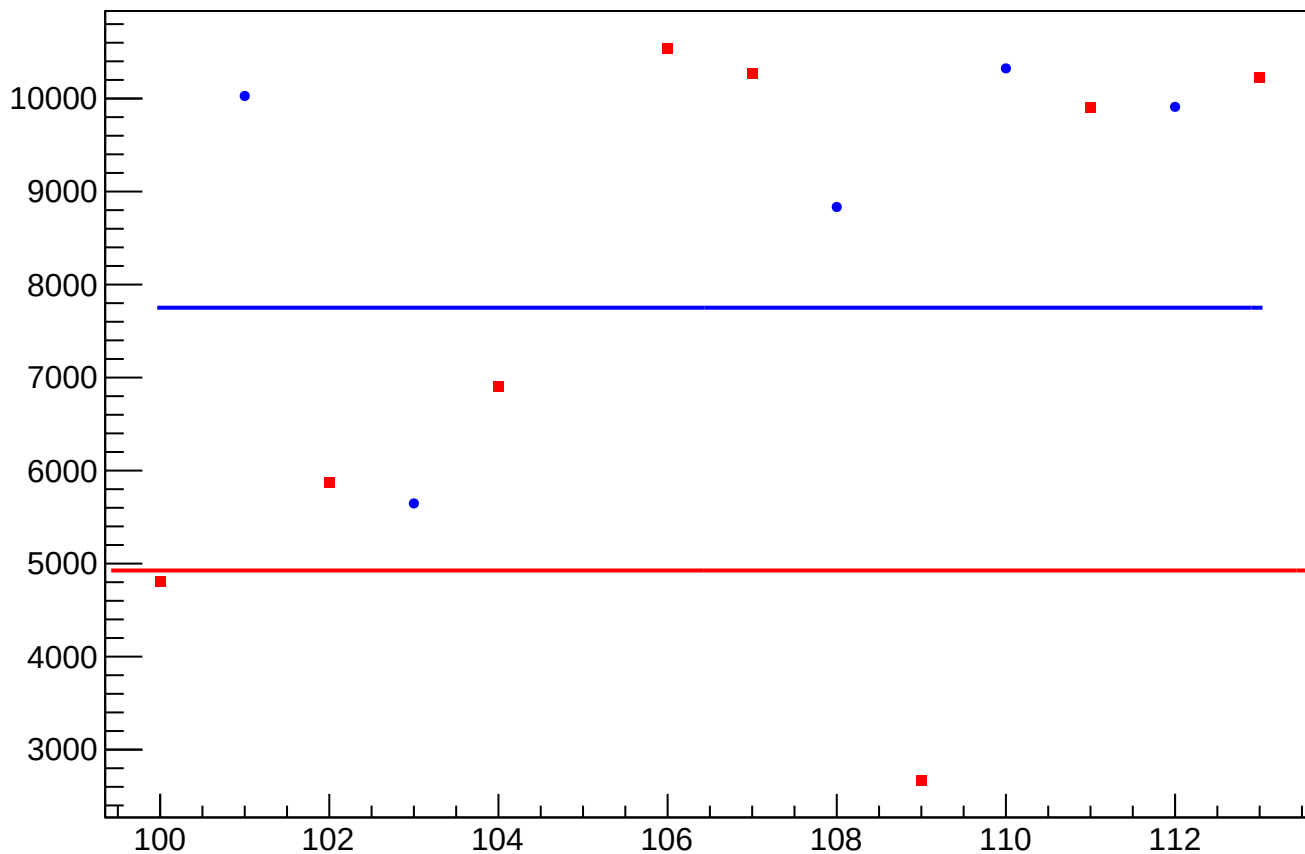
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2.601 $\pm$ 2.765  $\chi^2$ /NDF: 7.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm11Y\_rms vs Slug



Right In: 7751.298+/-3.600  $\chi^2/\text{NDF}$ : 336857.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4926.176+/-2.329  $\chi^2/\text{NDF}$ : 1368085.5/7

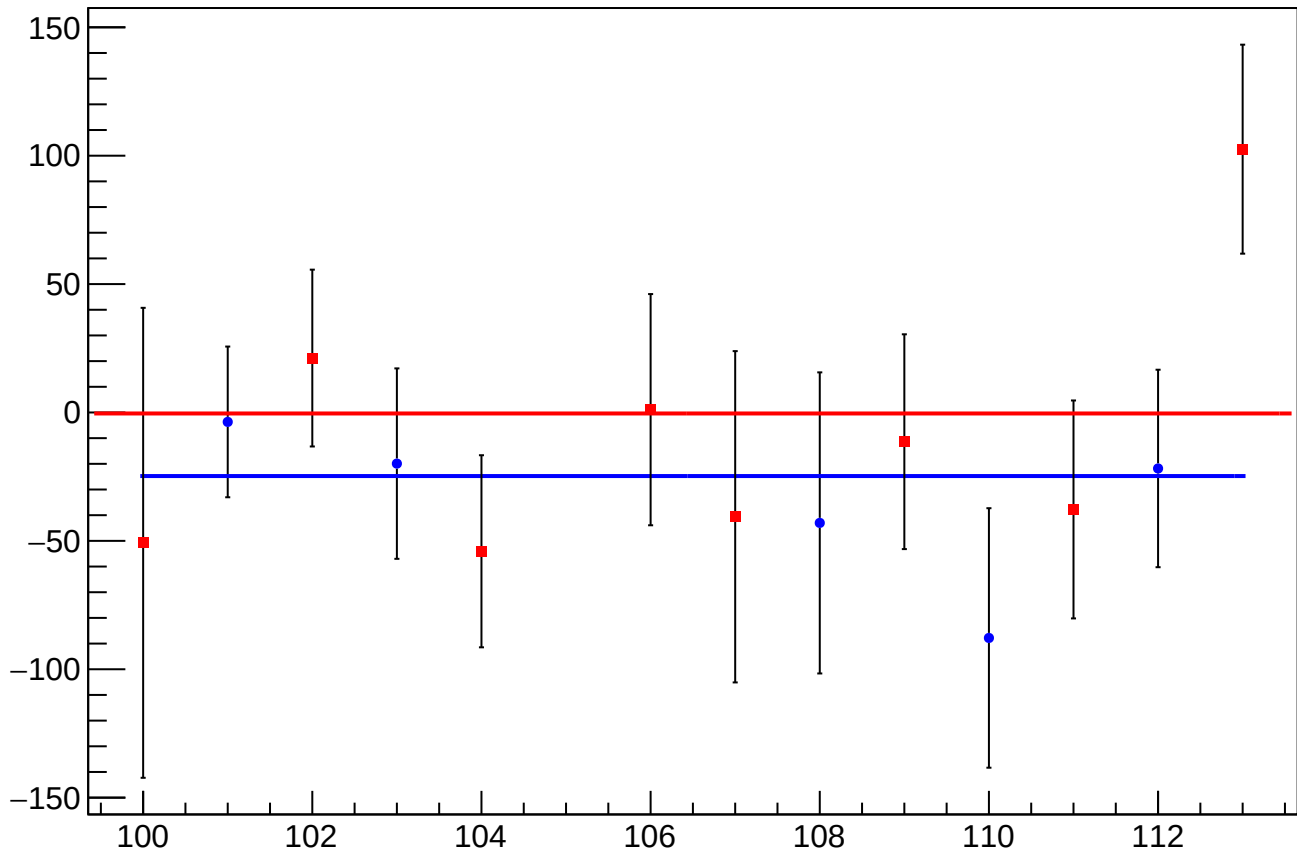
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5759.538+/-1.955  $\chi^2/\text{NDF}$ : 2139027.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm12X\_mean vs Slug



Right In:  $-24.759 \pm 17.548$   $\chi^2/\text{NDF}$ : 2.2/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.387 \pm 15.538$   $\chi^2/\text{NDF}$ : 10.4/7

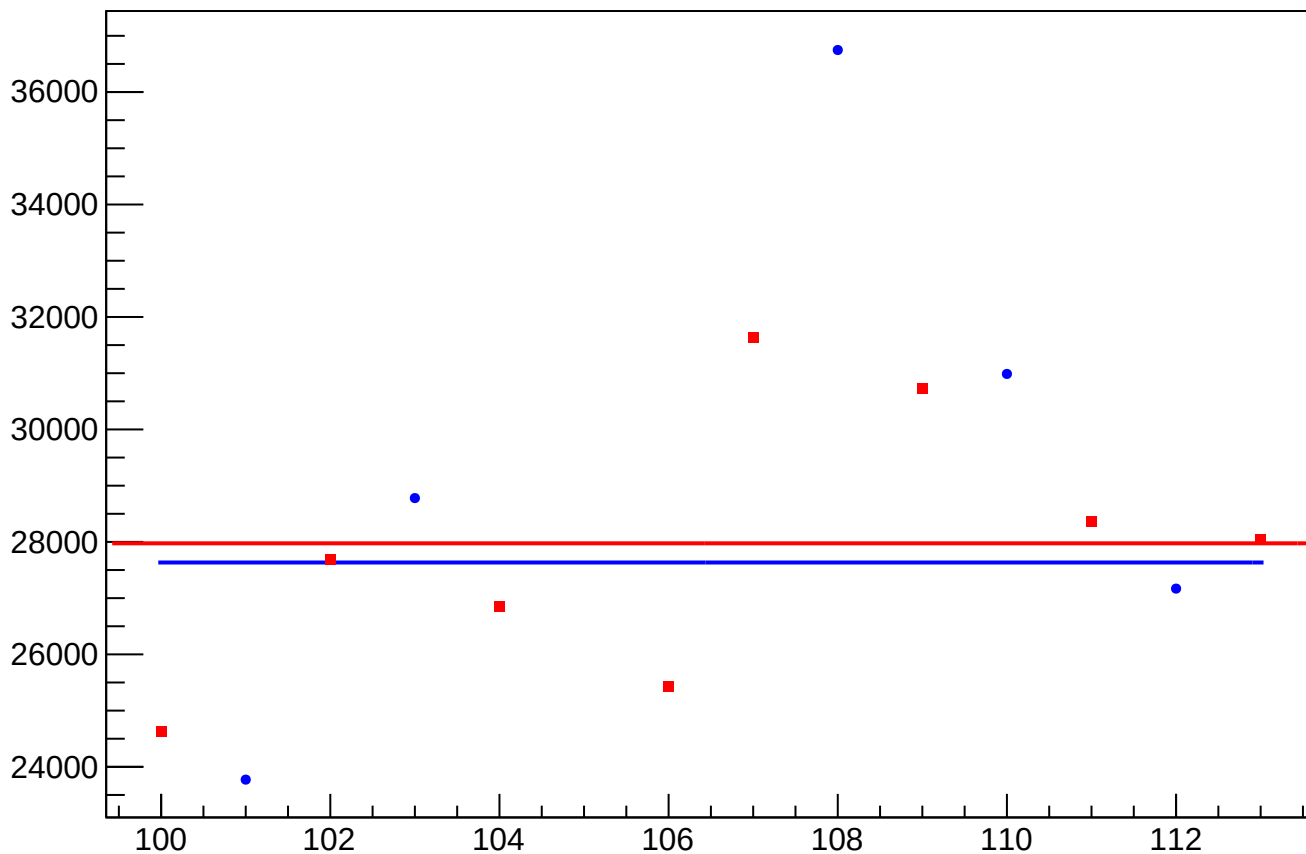
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-11.097 \pm 11.633$   $\chi^2/\text{NDF}$ : 13.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm12X\_rms vs Slug



Right In: 27633.906+/-12.409  $\chi^2/\text{NDF}$ : 93966.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27975.041+/-10.987  $\chi^2/\text{NDF}$ : 26301.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

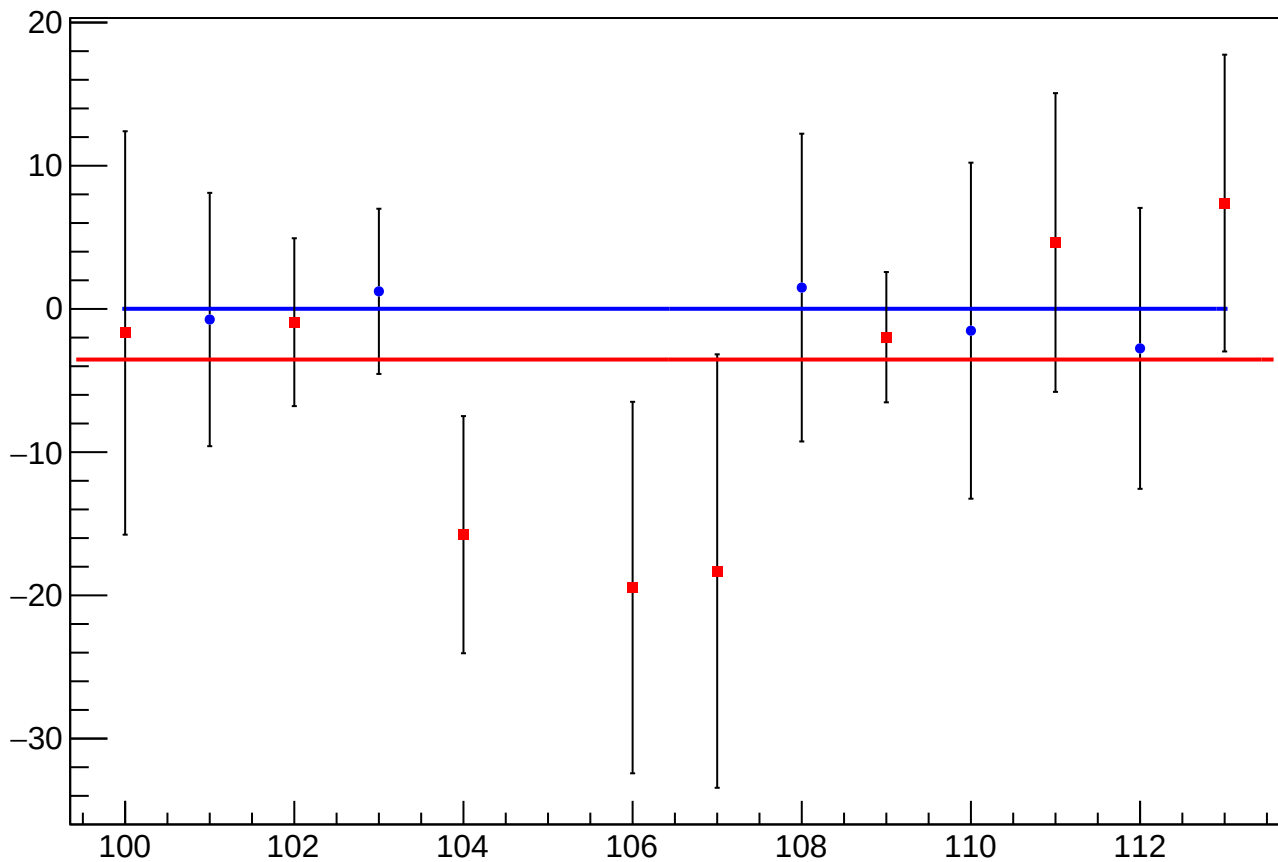
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27825.129+/-8.226  $\chi^2/\text{NDF}$ : 120691.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm12Y\_mean vs Slug



Right In: 0.011 $\pm$ 3.802  $\chi^2$ /NDF: 0.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.532 $\pm$ 2.819  $\chi^2$ /NDF: 6.7/7

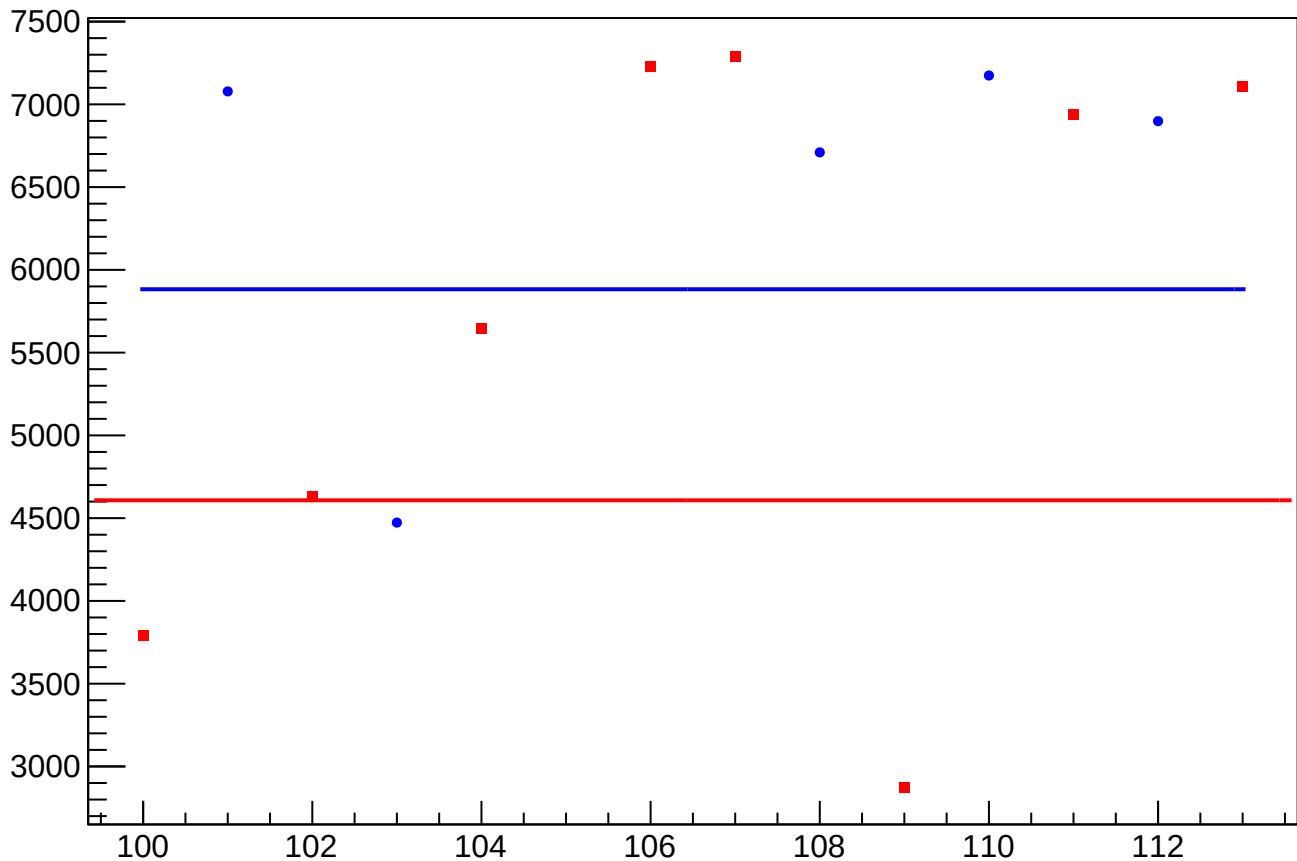
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2.275 $\pm$ 2.264  $\chi^2$ /NDF: 7.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm12Y\_rms vs Slug



Right In: 5882.937+/-2.689  $\chi^2/\text{NDF}$ : 213515.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4607.854+/-1.993  $\chi^2/\text{NDF}$ : 689444.8/7

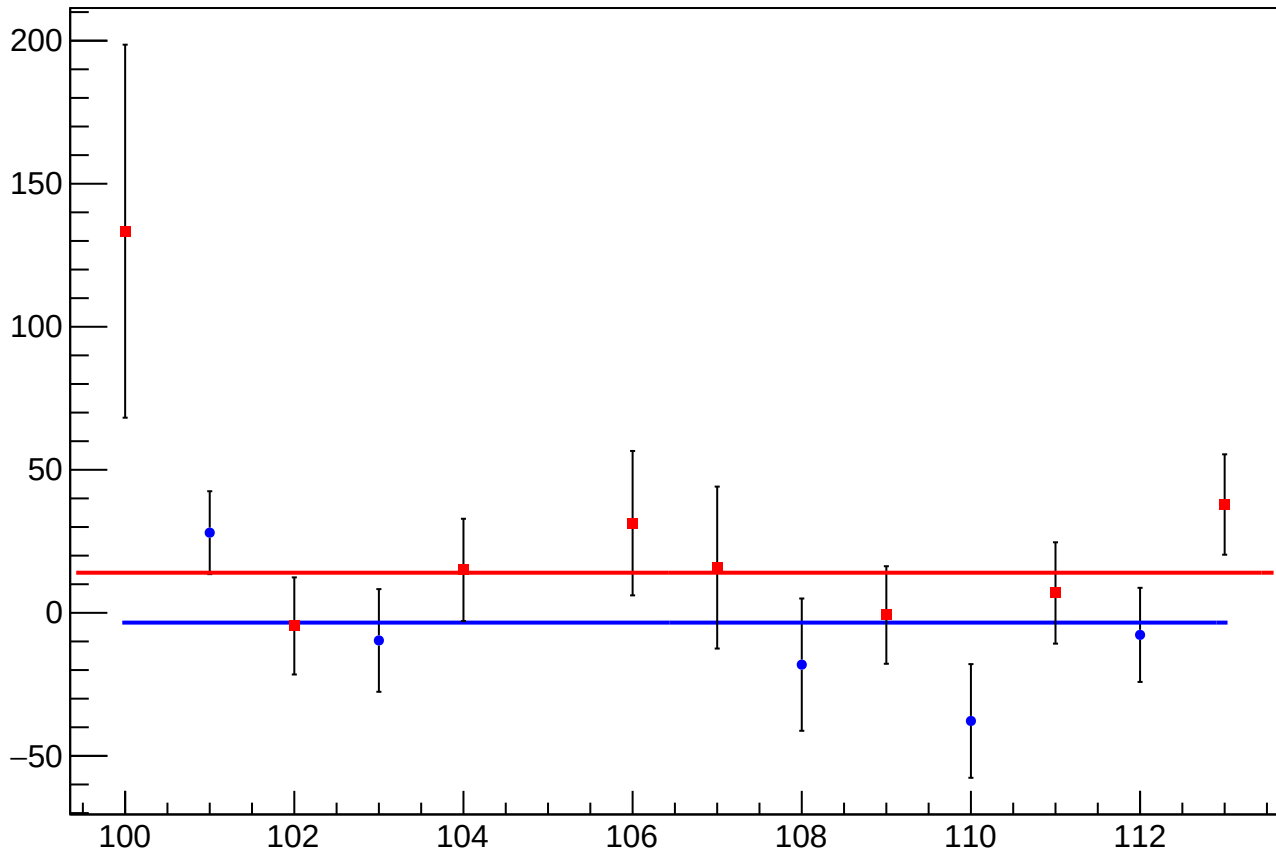
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5060.045+/-1.601  $\chi^2/\text{NDF}$ : 1048096.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm16X\_mean vs Slug



Right In:  $-3.414 \pm 7.913$   $\chi^2/\text{NDF}$ : 8.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $14.027 \pm 7.156$   $\chi^2/\text{NDF}$ : 7.8/7

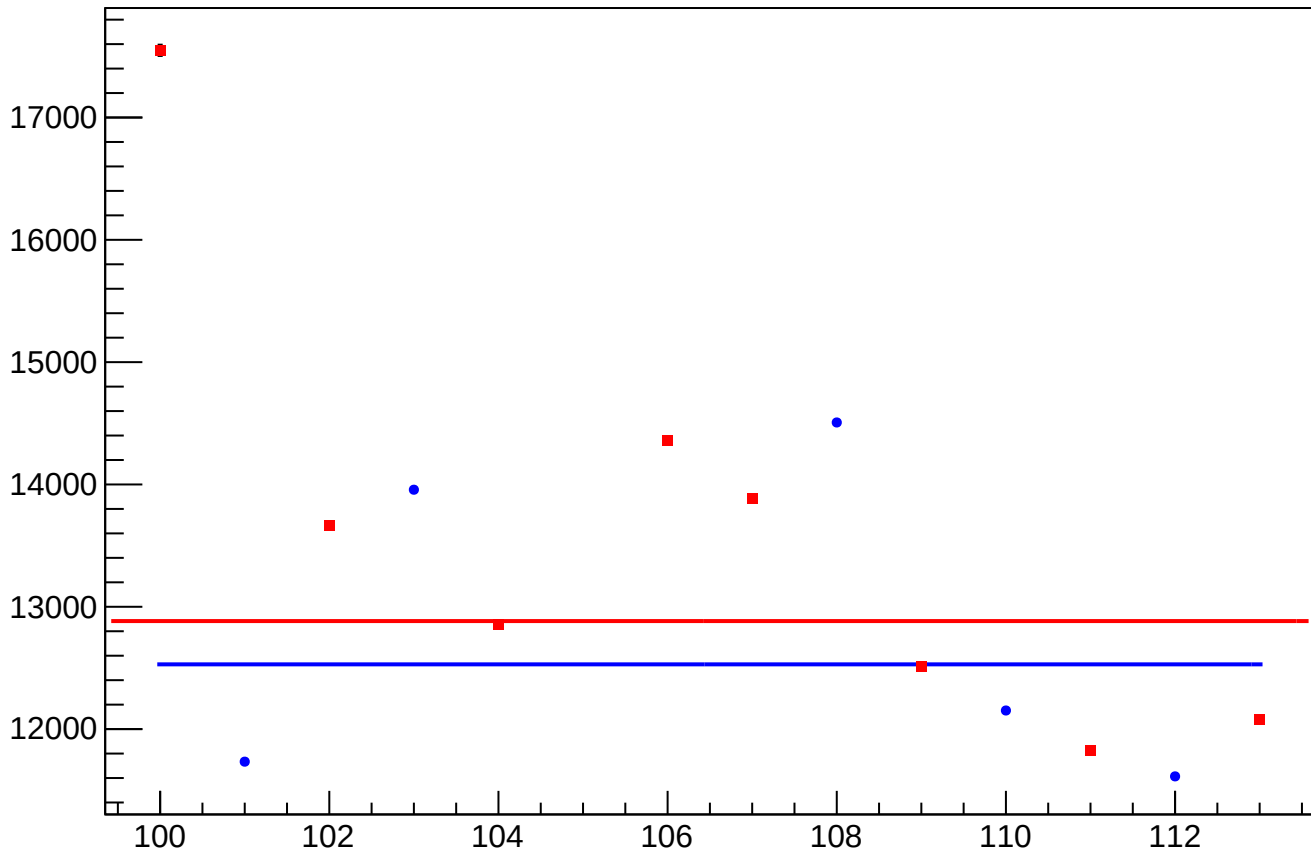
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $6.181 \pm 5.308$   $\chi^2/\text{NDF}$ : 18.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm16X\_rms vs Slug



Right In: 12529.315+/-5.596  $\chi^2/\text{NDF}$ : 40241.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12883.204+/-5.060  $\chi^2/\text{NDF}$ : 36102.7/7

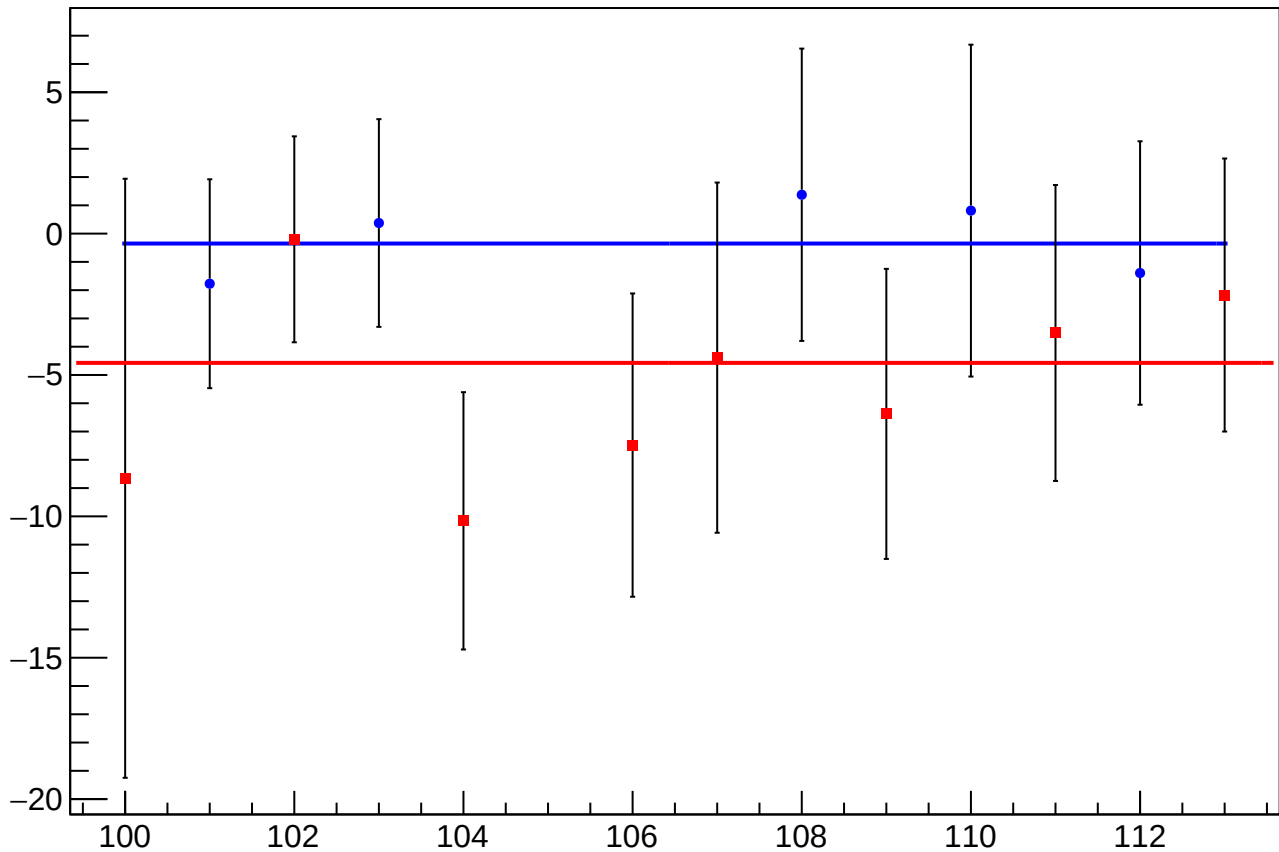
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12723.999+/-3.753  $\chi^2/\text{NDF}$ : 78544.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm16Y\_mean vs Slug



Right In:  $-0.351 \pm 1.961$   $\chi^2/\text{NDF}$ : 0.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.572 \pm 1.794$   $\chi^2/\text{NDF}$ : 3.8/7

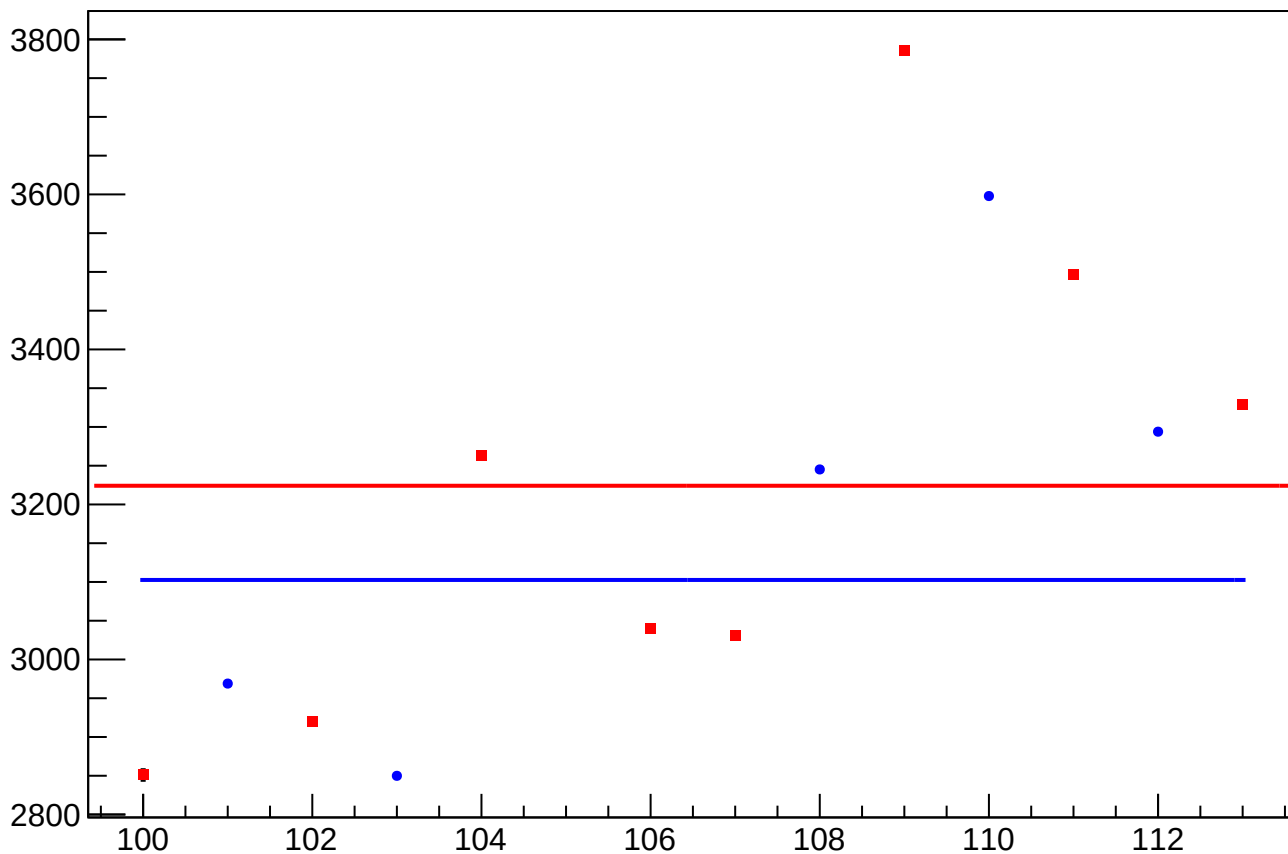
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.650 \pm 1.324$   $\chi^2/\text{NDF}$ : 6.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm16Y\_rms vs Slug



Right In: 3102.602 $\pm$ 1.387  $\chi^2$ /NDF: 31221.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3224.131 $\pm$ 1.268  $\chi^2$ /NDF: 51204.0/7

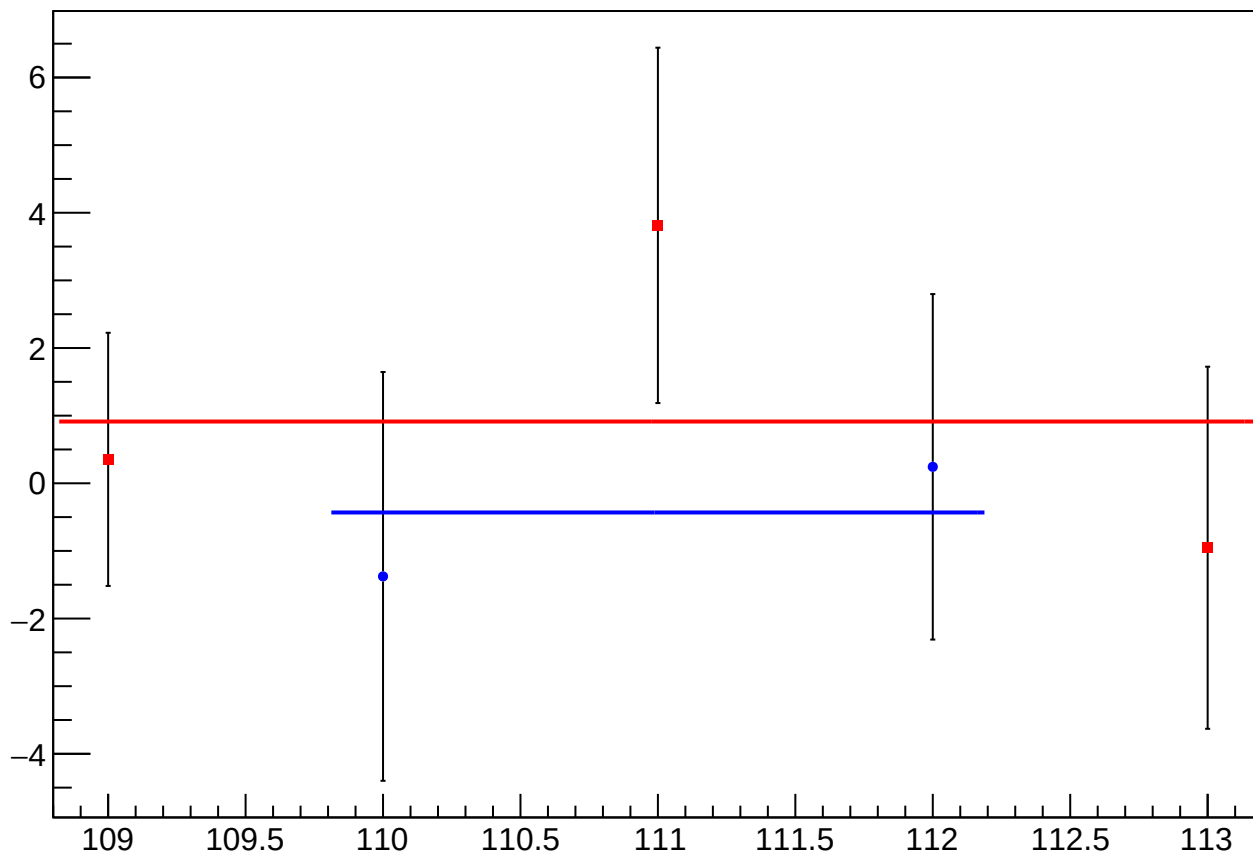
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3168.789 $\pm$ 0.936  $\chi^2$ /NDF: 86606.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1p02bX\_mean vs Slug



Right In: -0.432 $\pm$ 1.951  $\chi^2$ /NDF: 0.2/1

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.913 $\pm$ 1.325  $\chi^2$ /NDF: 1.8/2

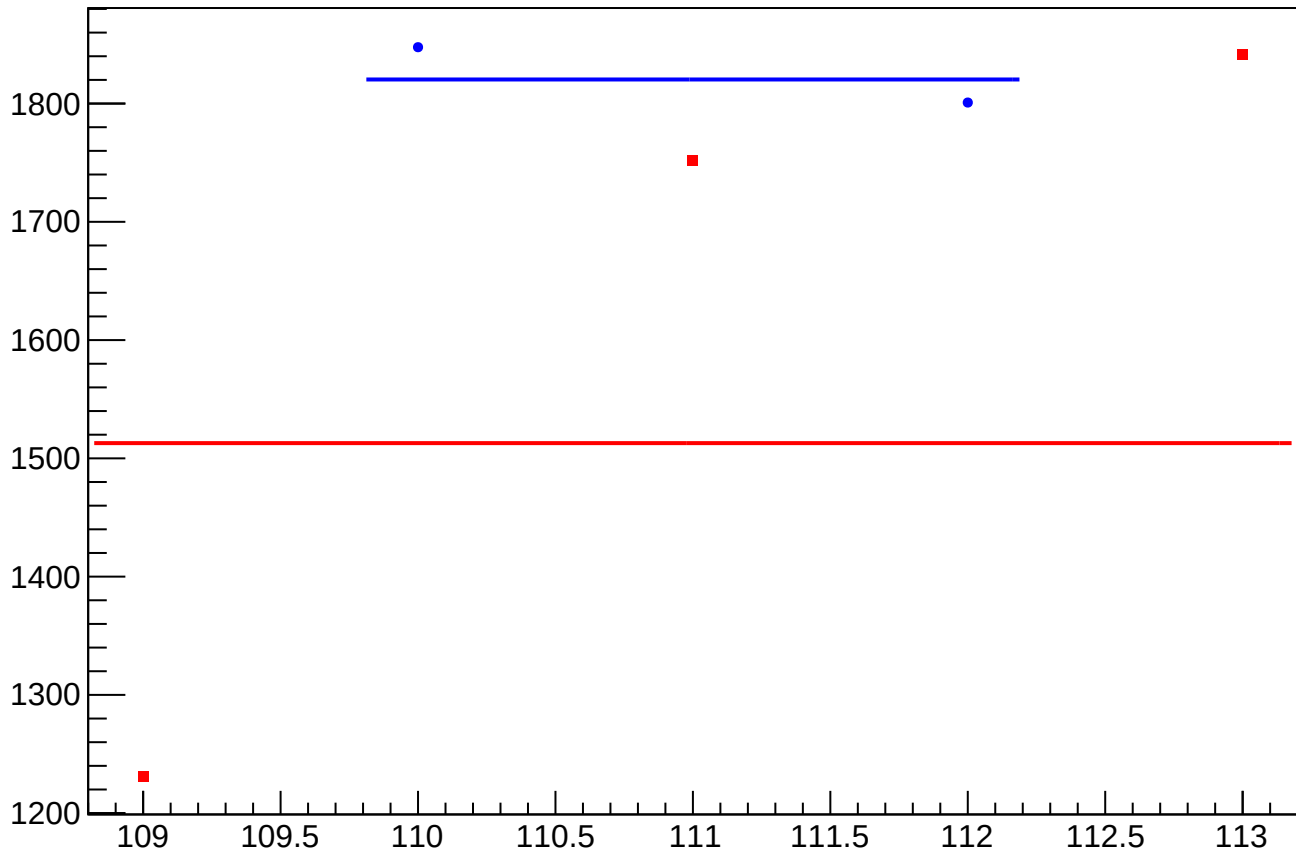
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.489 $\pm$ 1.096  $\chi^2$ /NDF: 2.3/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1p02bX\_rms vs Slug



Right In: 1820.356 $\pm$ 1.380  $\chi^2$ /NDF: 279.7/1

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1512.883 $\pm$ 0.937  $\chi^2$ /NDF: 91903.6/2

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

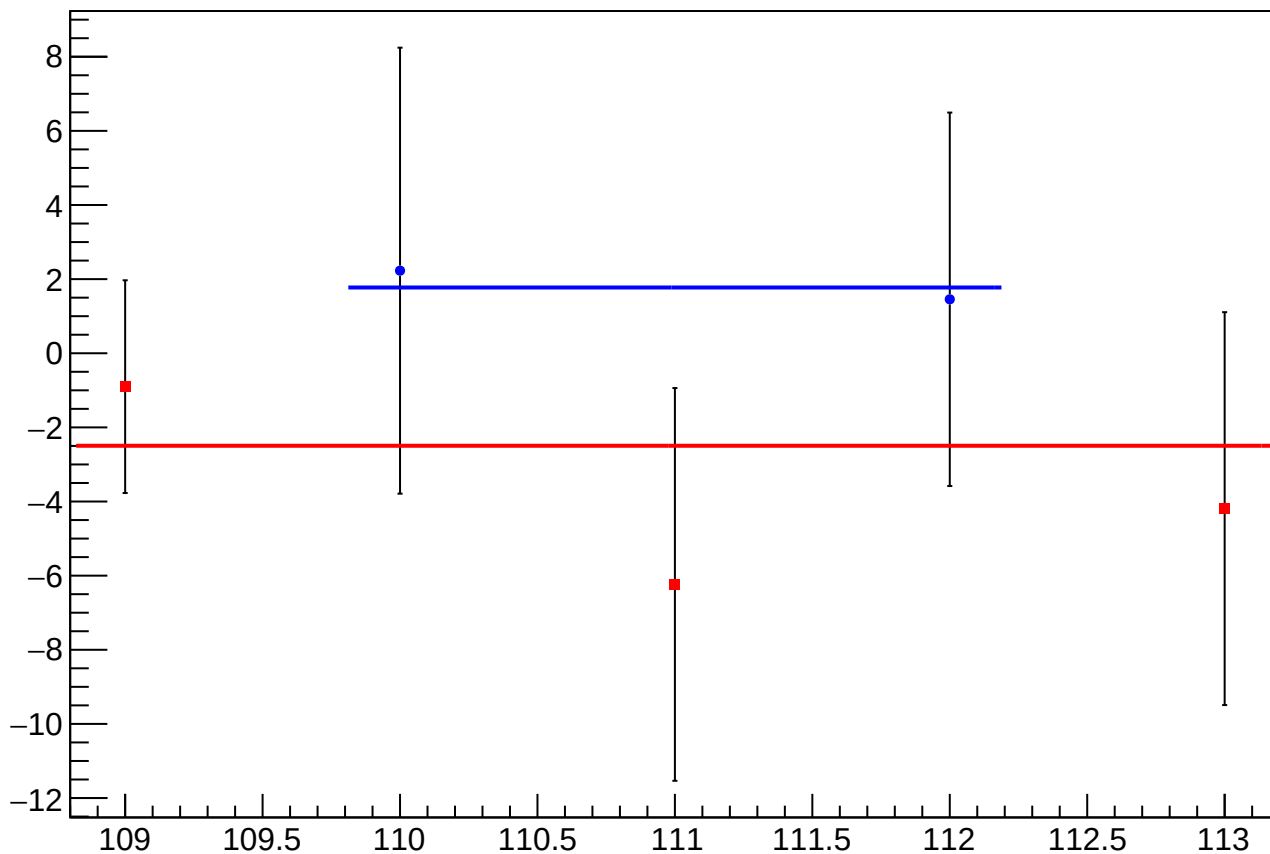
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1609.911 $\pm$ 0.775  $\chi^2$ /NDF: 126184.9/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm1p02bY\_mean vs Slug



Right In: 1.774 $\pm$ 3.863  $\chi^2$ /NDF: 0.0/1

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.496 $\pm$ 2.278  $\chi^2$ /NDF: 0.9/2

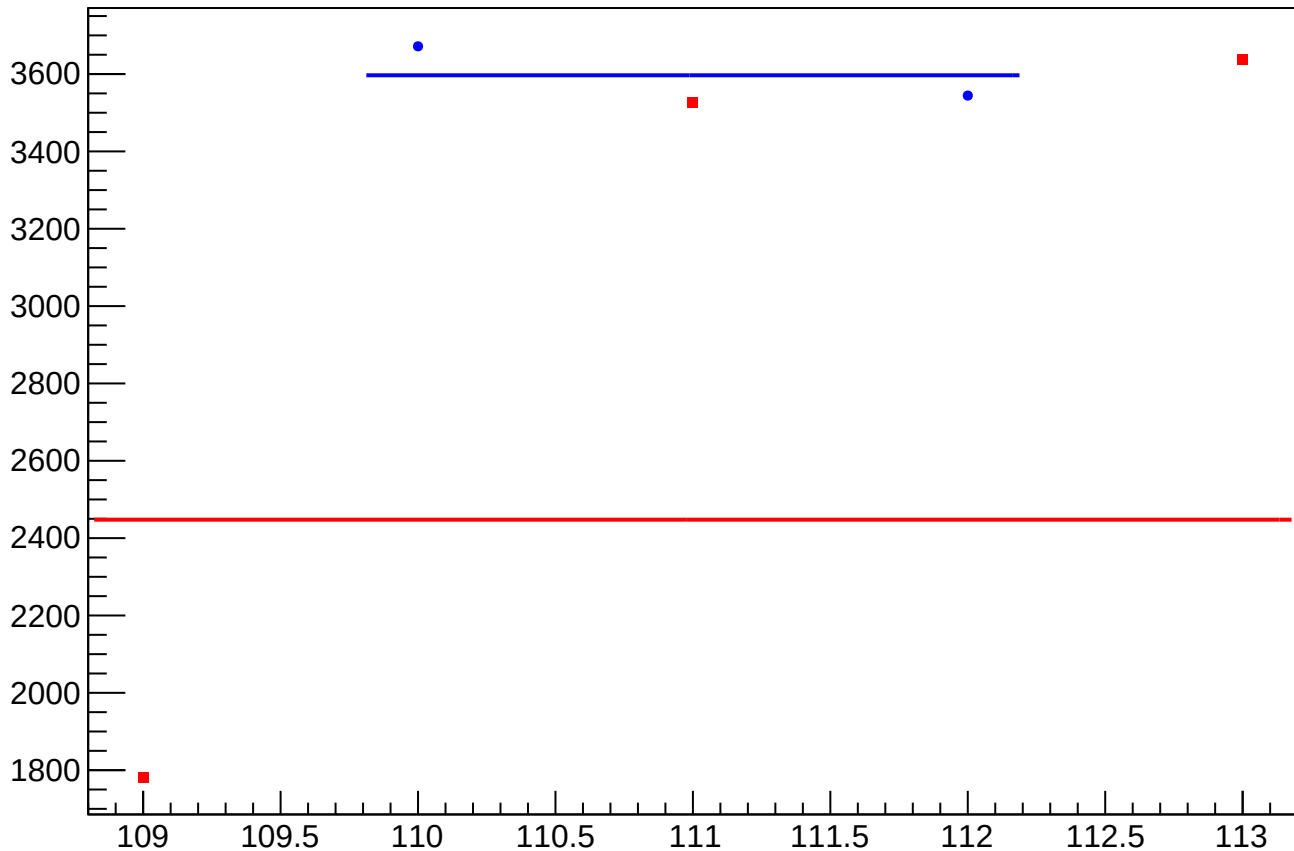
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.394 $\pm$ 1.962  $\chi^2$ /NDF: 1.8/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1p02bY\_rms vs Slug



Right In: 3596.882 $\pm$ 2.731  $\chi^2$ /NDF: 526.8/1

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2447.734 $\pm$ 1.611  $\chi^2$ /NDF: 291318.4/2

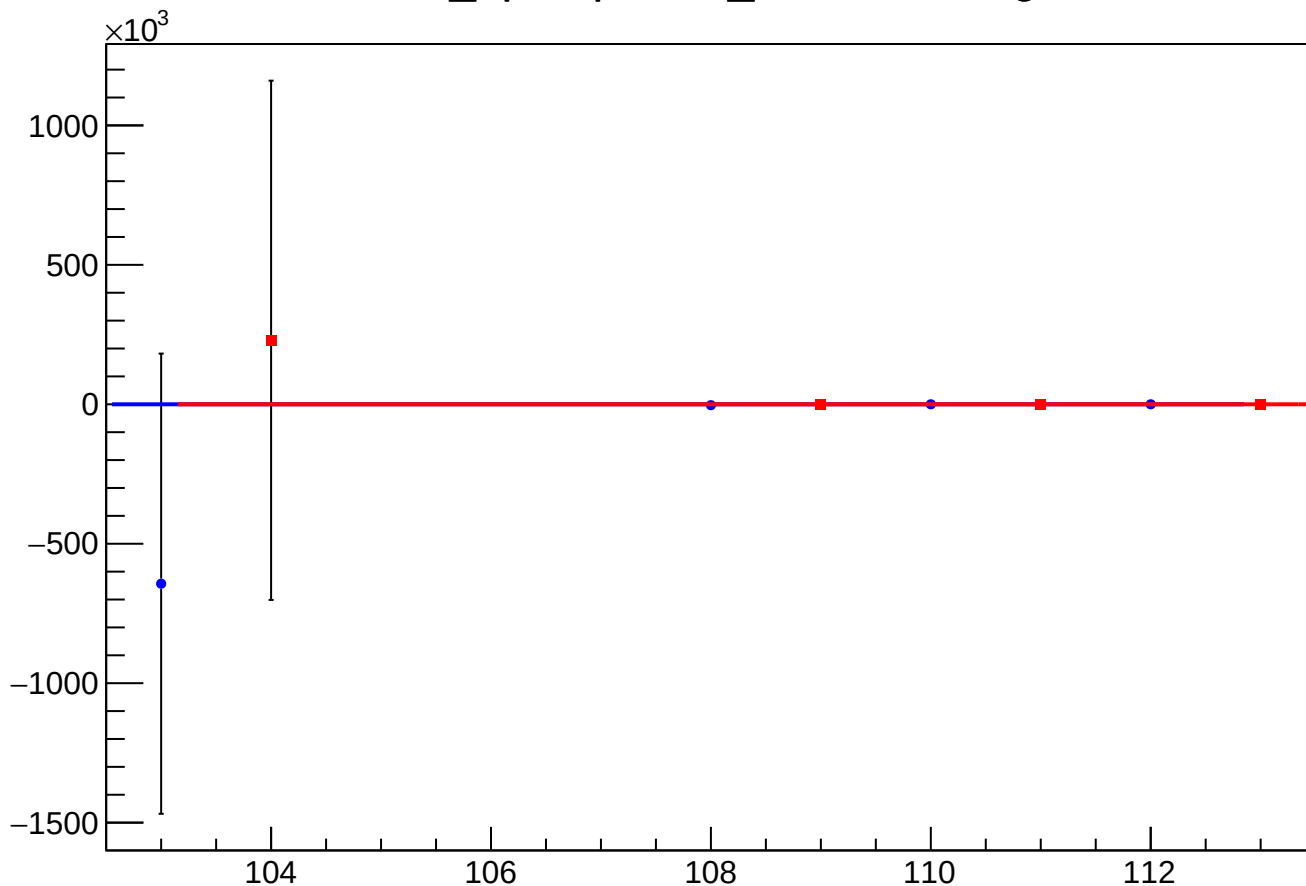
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2744.344 $\pm$ 1.388  $\chi^2$ /NDF: 423177.3/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1p03aX\_mean vs Slug



Right In: 5.538 $\pm$ 3.128  $\chi^2$ /NDF: 2.6/3

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3.781 $\pm$ 2.478  $\chi^2$ /NDF: 4.5/3

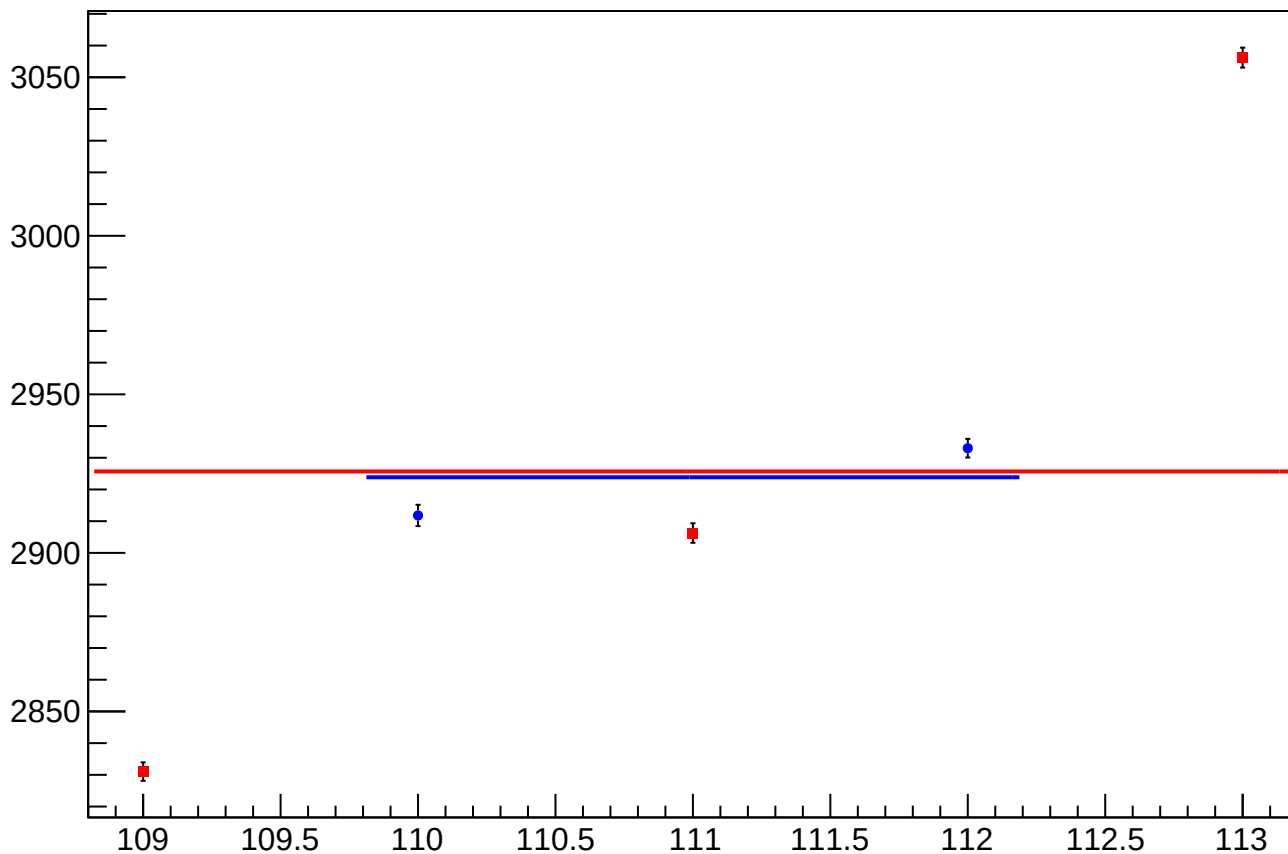
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.188 $\pm$ 1.942  $\chi^2$ /NDF: 12.5/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1p03aX\_rms vs Slug



Right In: 2923.849 $\pm$ 2.212  $\chi^2$ /NDF: 22.6/1

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2925.679 $\pm$ 1.752  $\chi^2$ /NDF: 2832.7/2

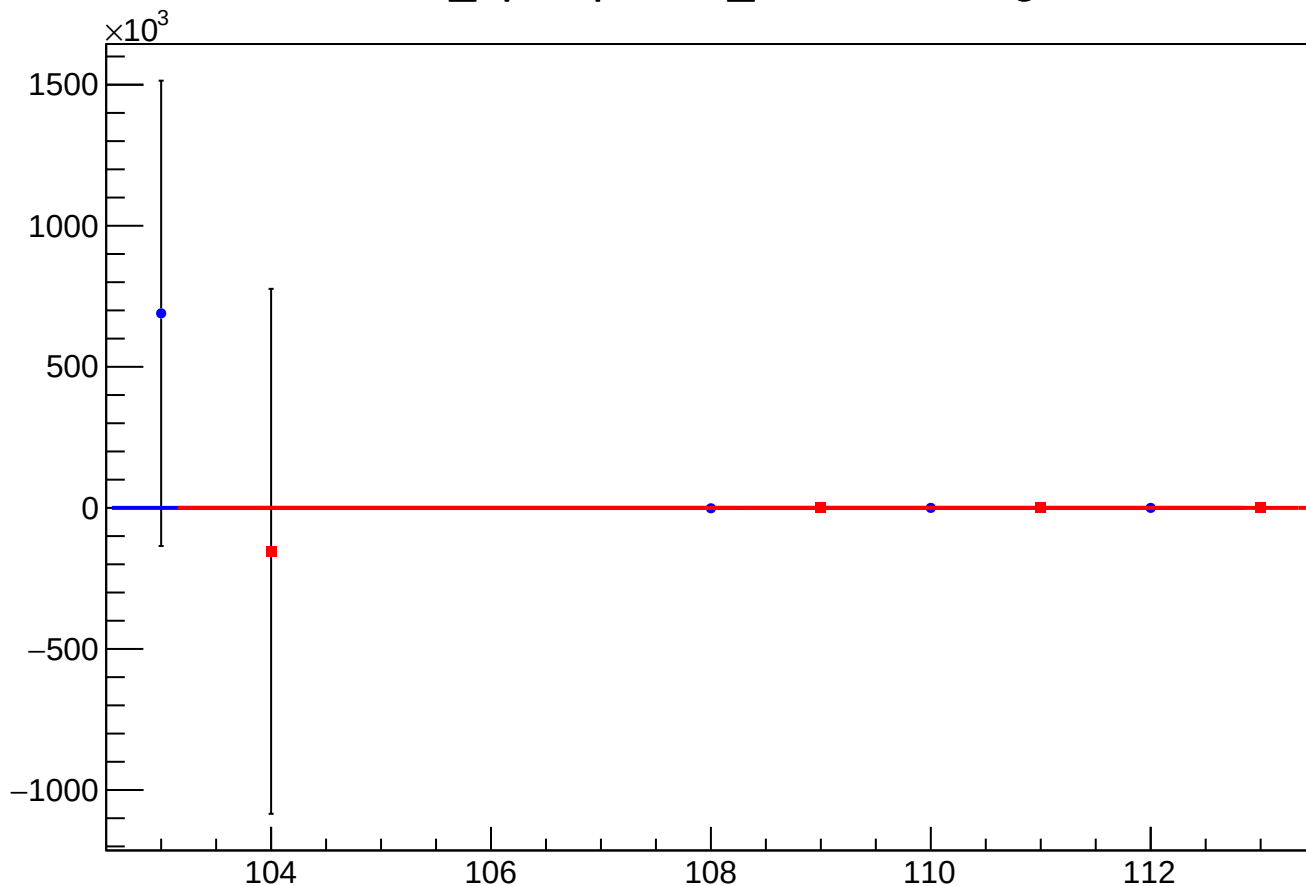
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2924.974 $\pm$ 1.373  $\chi^2$ /NDF: 2855.7/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1p03aY\_mean vs Slug



Right In: 0.067 $\pm$ 3.296  $\chi^2$ /NDF: 1.1/3

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.369 $\pm$ 1.934  $\chi^2$ /NDF: 1.1/3

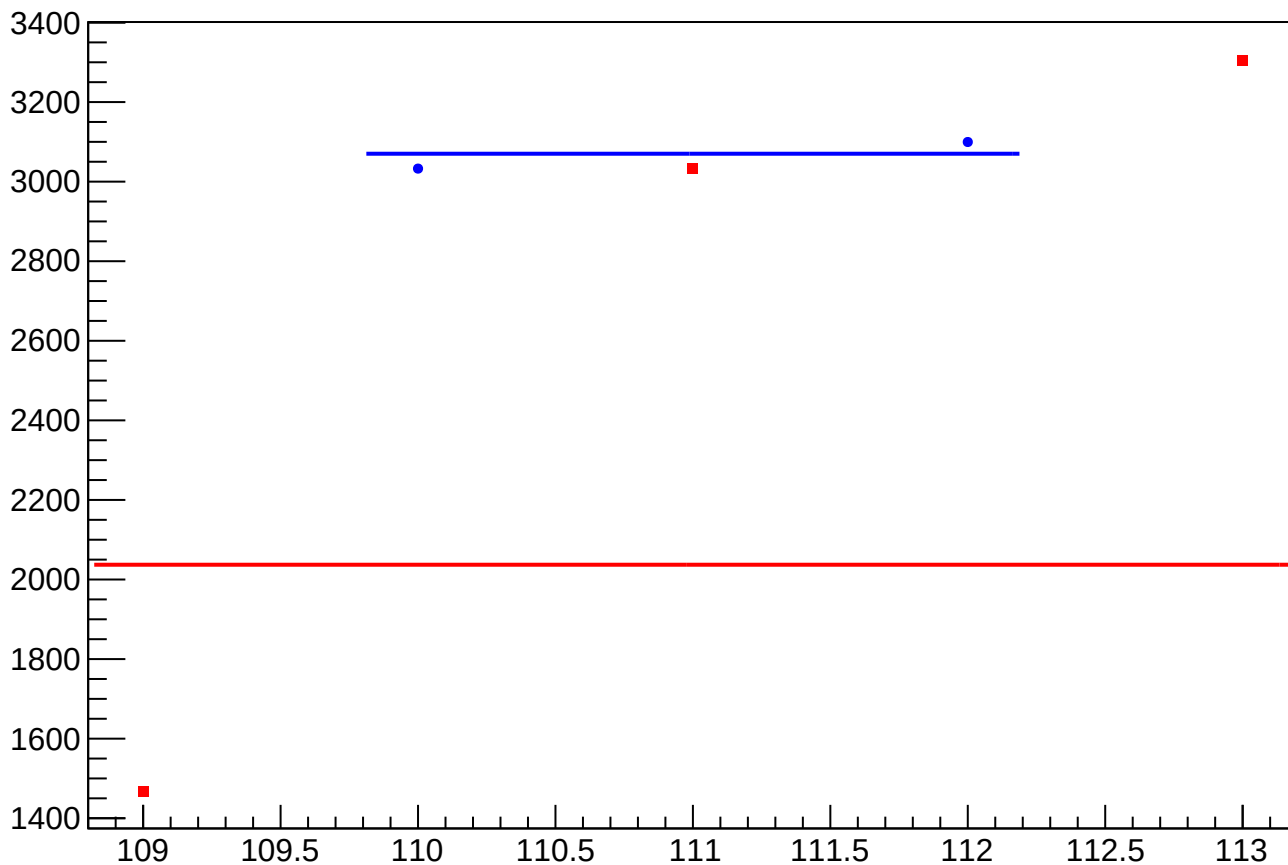
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.745 $\pm$ 1.668  $\chi^2$ /NDF: 2.6/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1p03aY\_rms vs Slug



Right In: 3070.154 $\pm$ 2.331  $\chi^2$ /NDF: 202.9/1

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2037.150 $\pm$ 1.368  $\chi^2$ /NDF: 345954.3/2

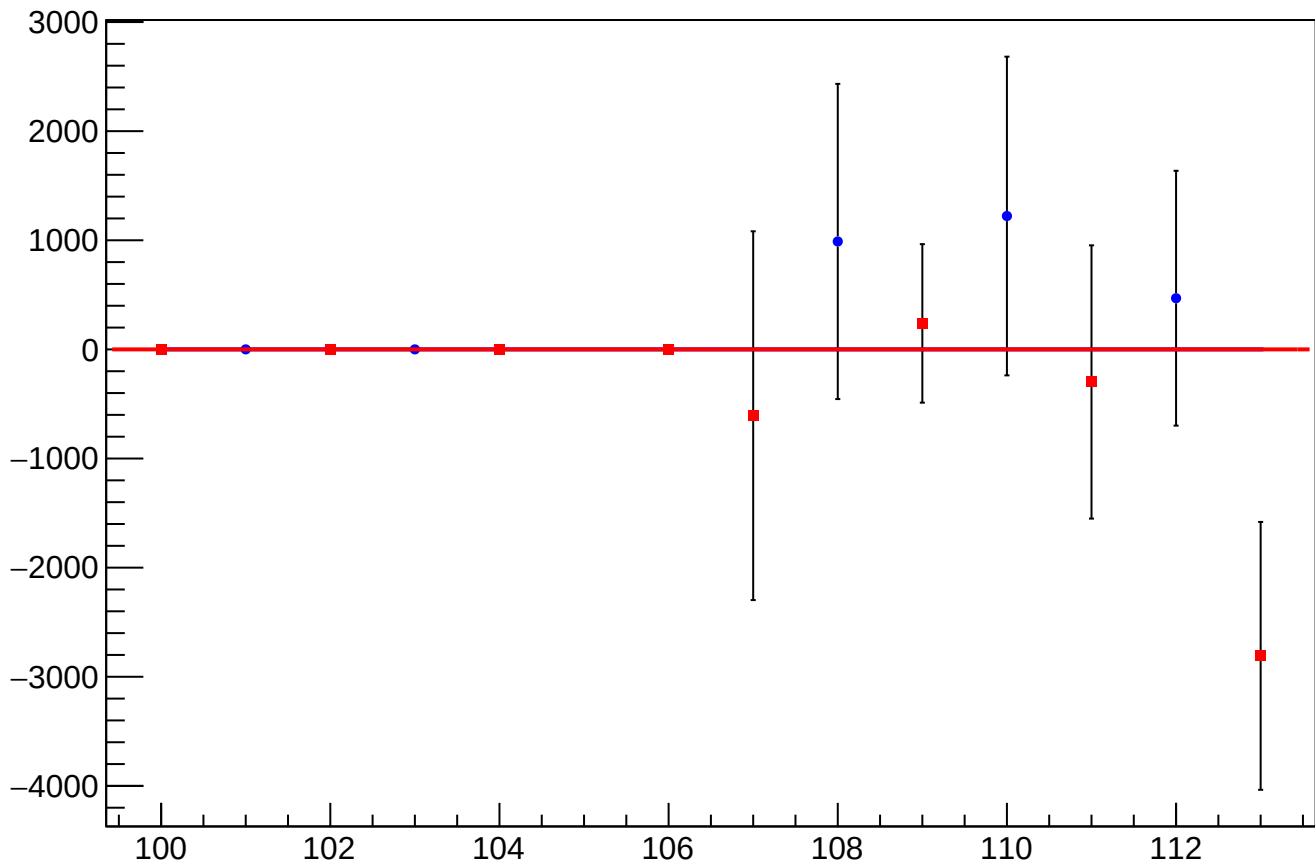
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2301.766 $\pm$ 1.180  $\chi^2$ /NDF: 492281.9/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_cav4bX\_mean vs Slug



Right In: 0.256+/-0.356  $\chi^2/\text{NDF}$ : 1.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.096+/-0.328  $\chi^2/\text{NDF}$ : 9.0/7

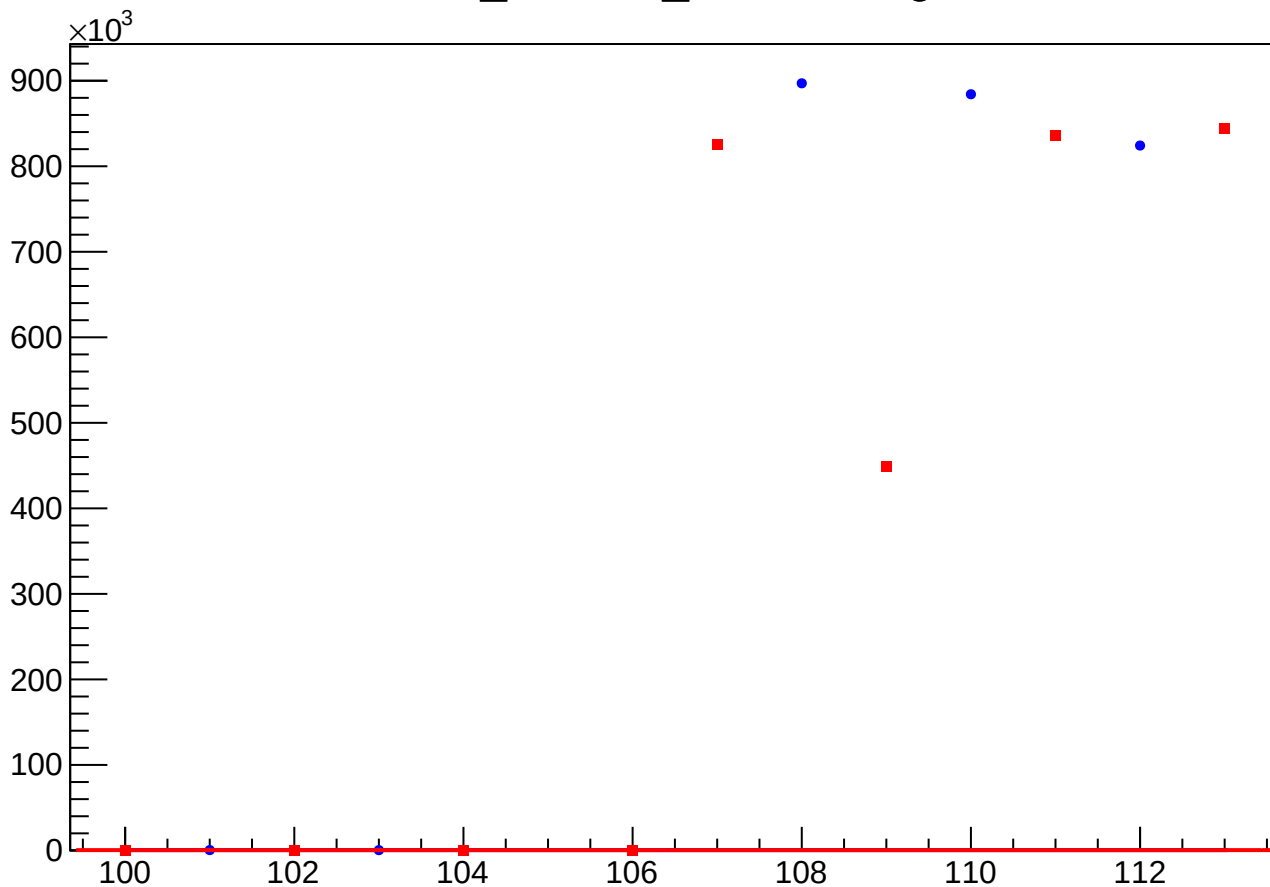
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.170+/-0.241  $\chi^2/\text{NDF}$ : 10.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4bX\_rms vs Slug



Right In: 398.354 $\pm$ 0.251  $\chi^2/\text{NDF}$ : 2428740.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 392.914 $\pm$ 0.232  $\chi^2/\text{NDF}$ : 3058608.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

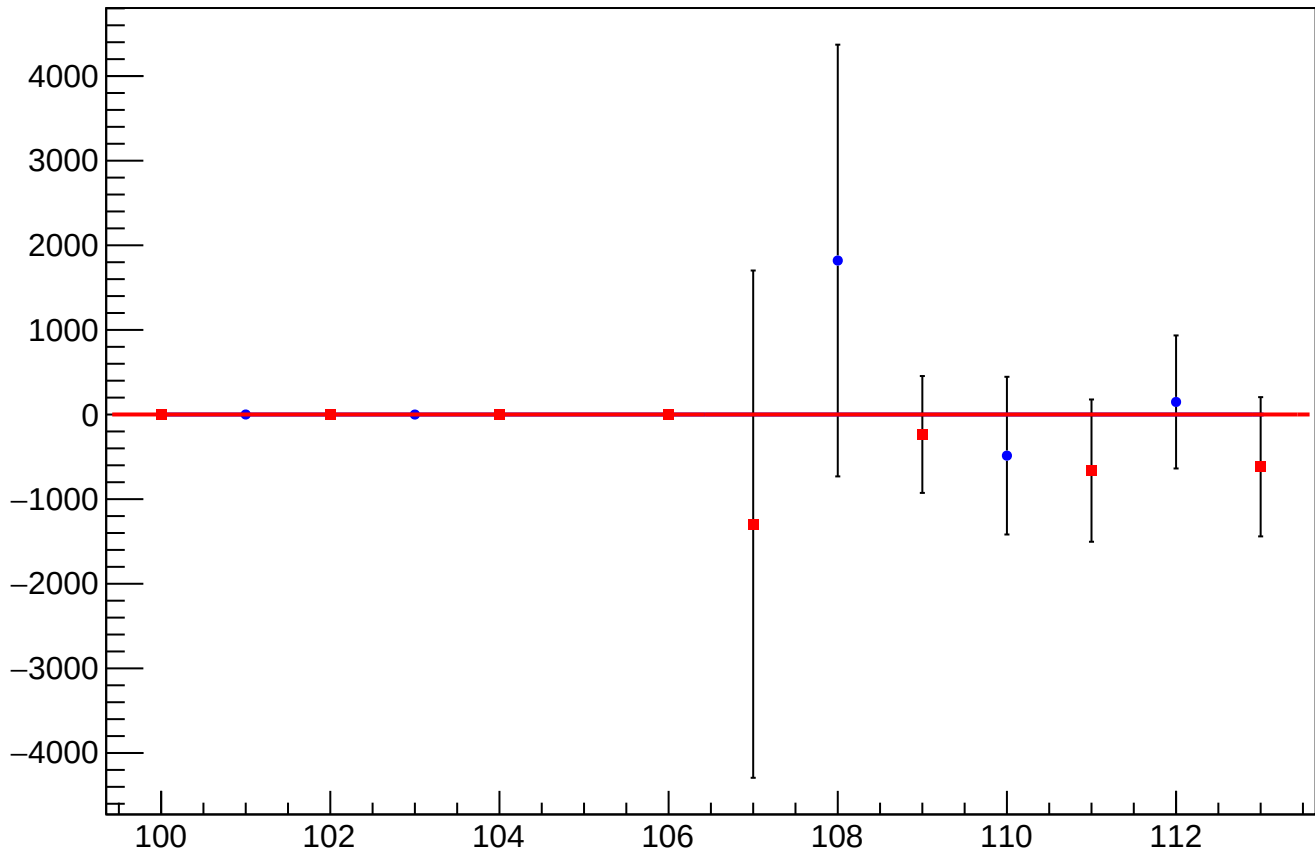
+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 395.412 $\pm$ 0.170  $\chi^2/\text{NDF}$ : 5487601.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_cav4bY\_mean vs Slug



Right In: -0.020 $\pm$ 0.347  $\chi^2$ /NDF: 1.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.598 $\pm$ 0.324  $\chi^2$ /NDF: 1.6/7

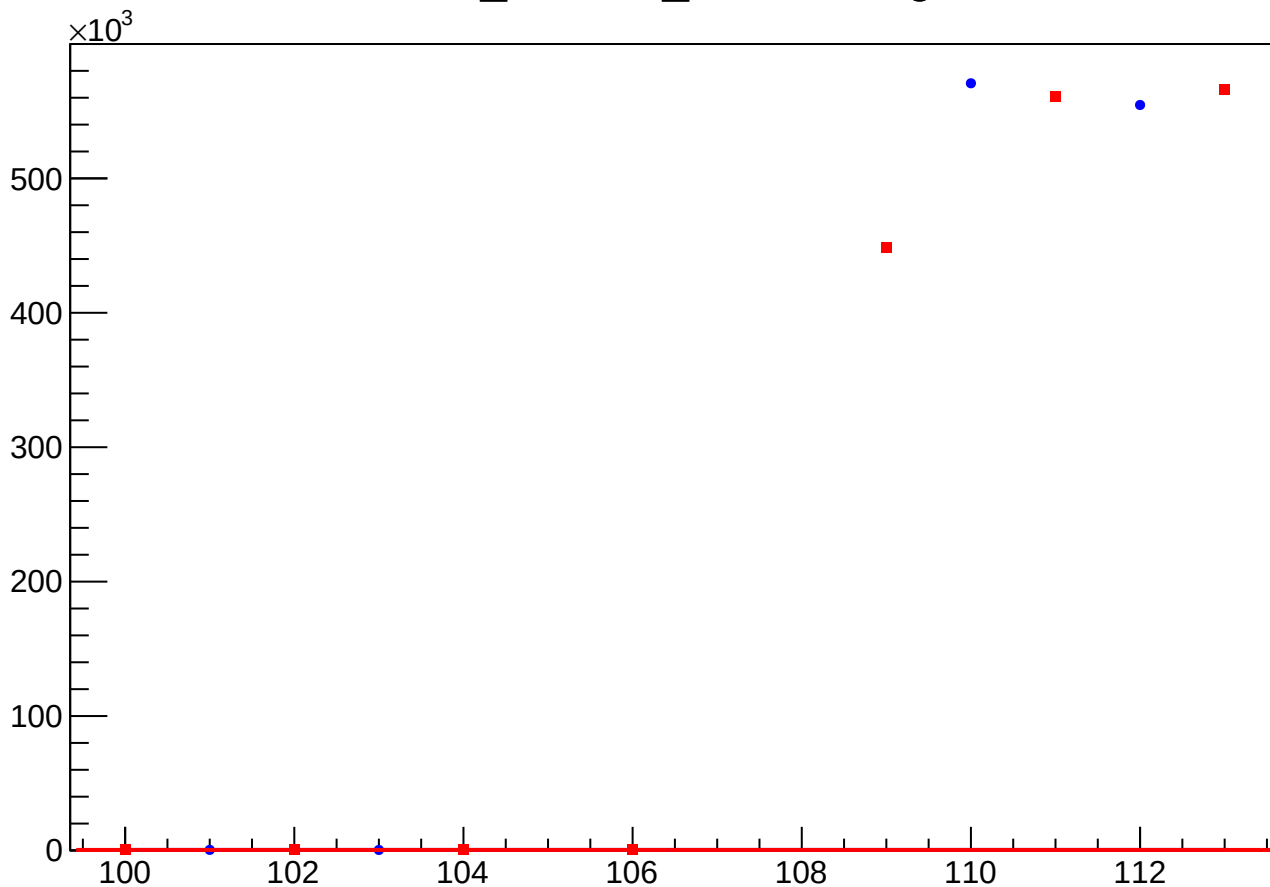
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.311 $\pm$ 0.237  $\chi^2$ /NDF: 4.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_cav4bY\_rms vs Slug



Right In:  $388.853 \pm 0.245$   $\chi^2/\text{NDF}$ : 1756027.3/3

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $386.844 \pm 0.229$   $\chi^2/\text{NDF}$ : 2674055.7/6

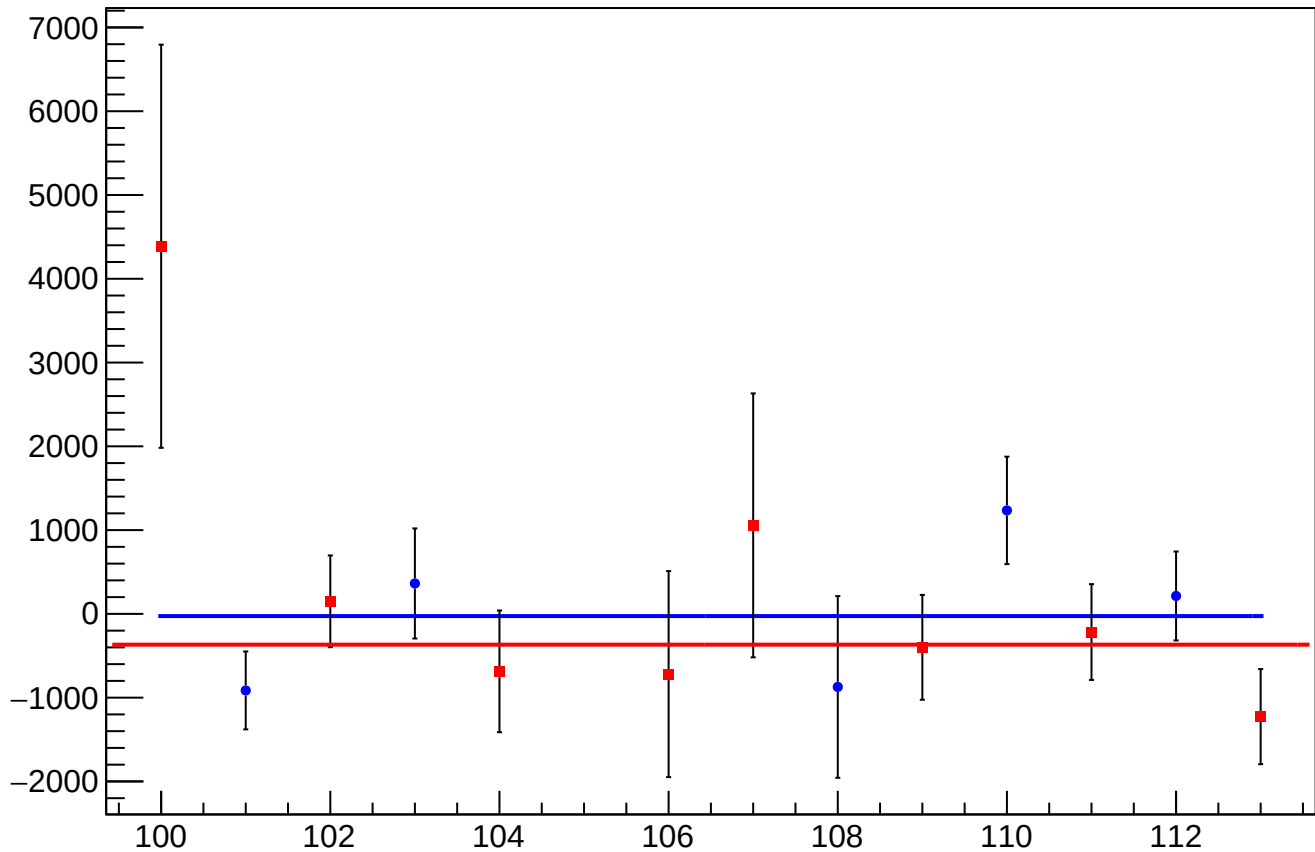
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $387.779 \pm 0.167$   $\chi^2/\text{NDF}$ : 4430118.8/10

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4cX\_mean vs Slug



Right In:  $-26.272 \pm 269.466$   $\chi^2/\text{NDF}$ : 8.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-367.459 \pm 256.663$   $\chi^2/\text{NDF}$ : 8.3/7

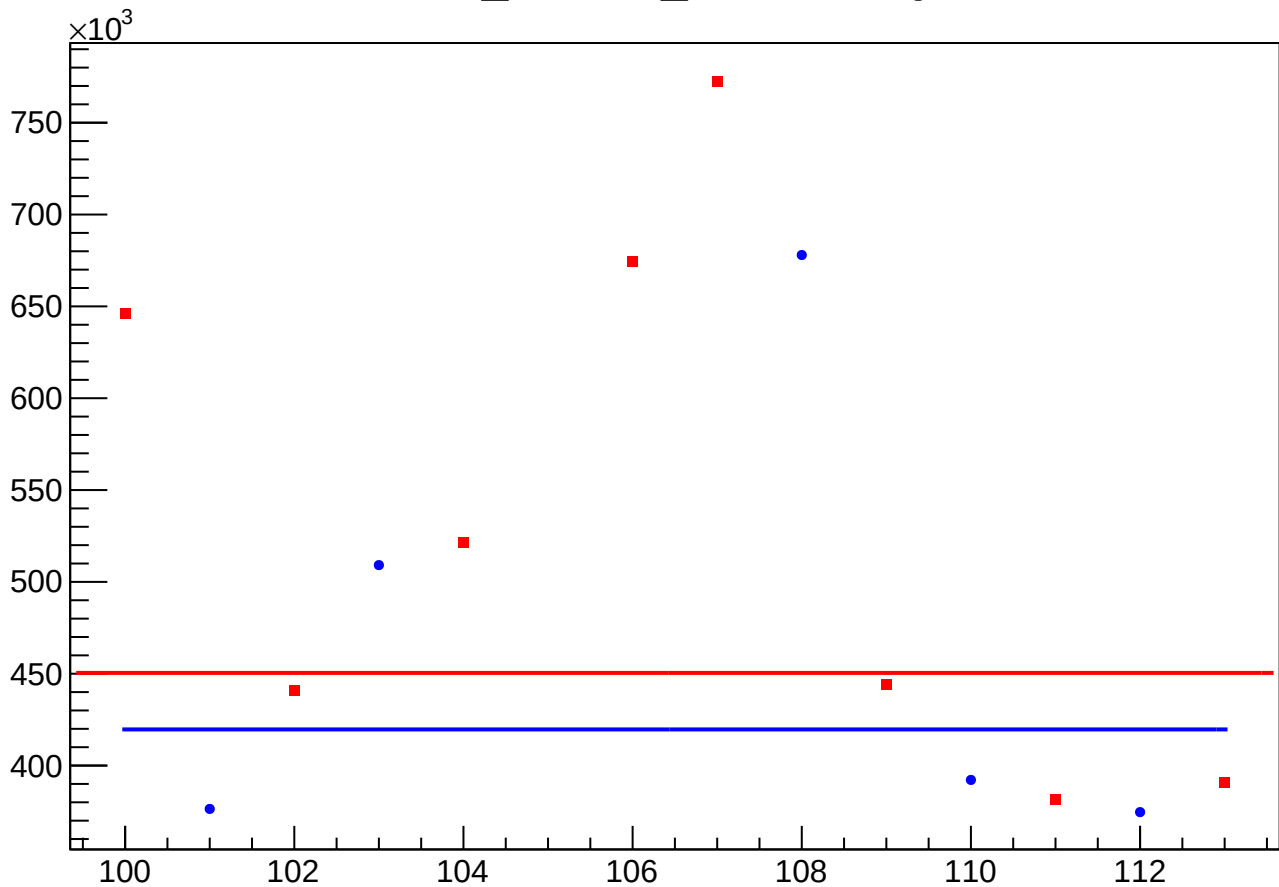
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-205.162 \pm 185.850$   $\chi^2/\text{NDF}$ : 17.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4cX\_rms vs Slug



Right In: 419675.726 $\pm$ 190.541  $\chi^2/\text{NDF}$ : 185878.4/4

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

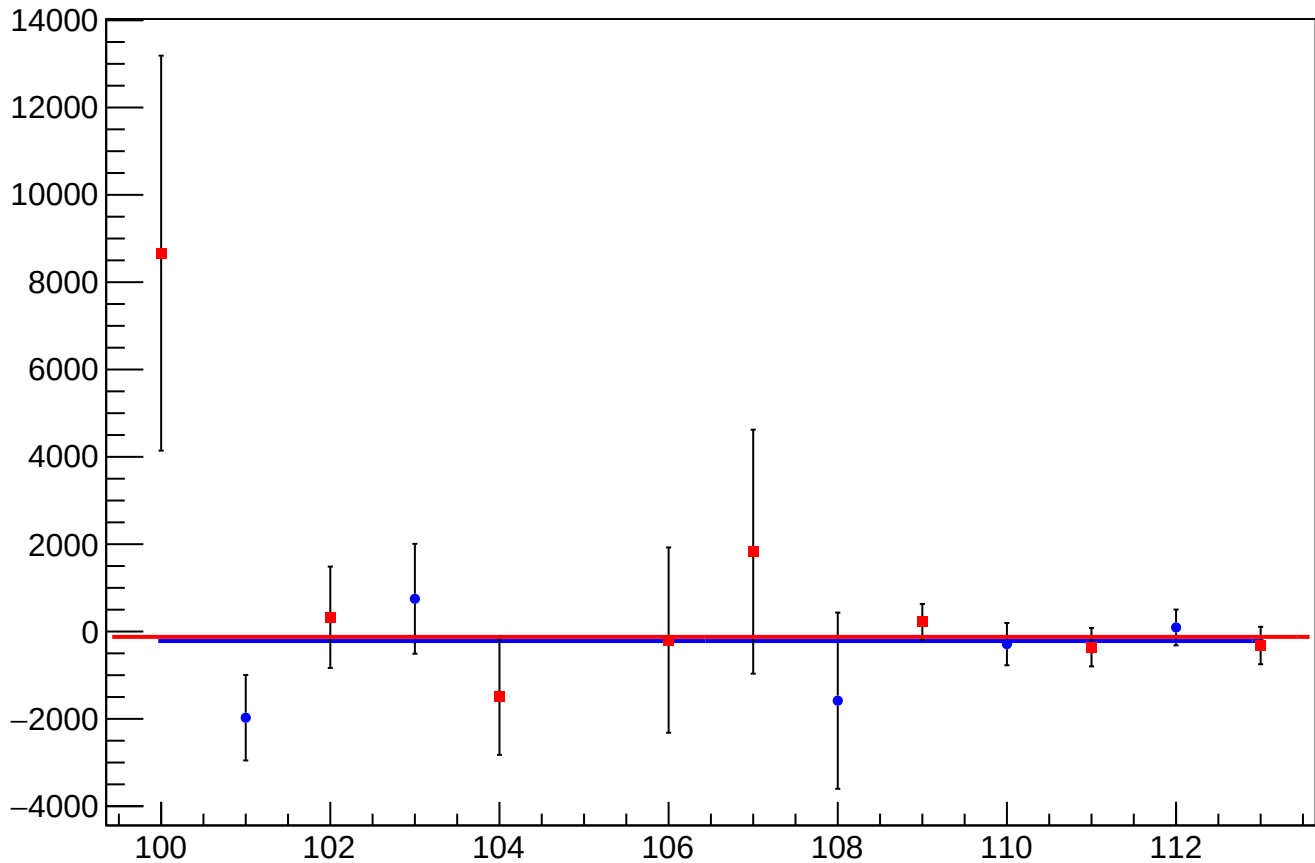
Right Out: 450448.937 $\pm$ 181.612  $\chi^2/\text{NDF}$ : 231989.6/7

All: 435800.217 $\pm$ 131.462  $\chi^2/\text{NDF}$ : 431535.

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4cY\_mean vs Slug



Right In: -218.159+/-287.068  $\chi^2/\text{NDF}$ : 4.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -122.506+/-233.590  $\chi^2/\text{NDF}$ : 6.7/7

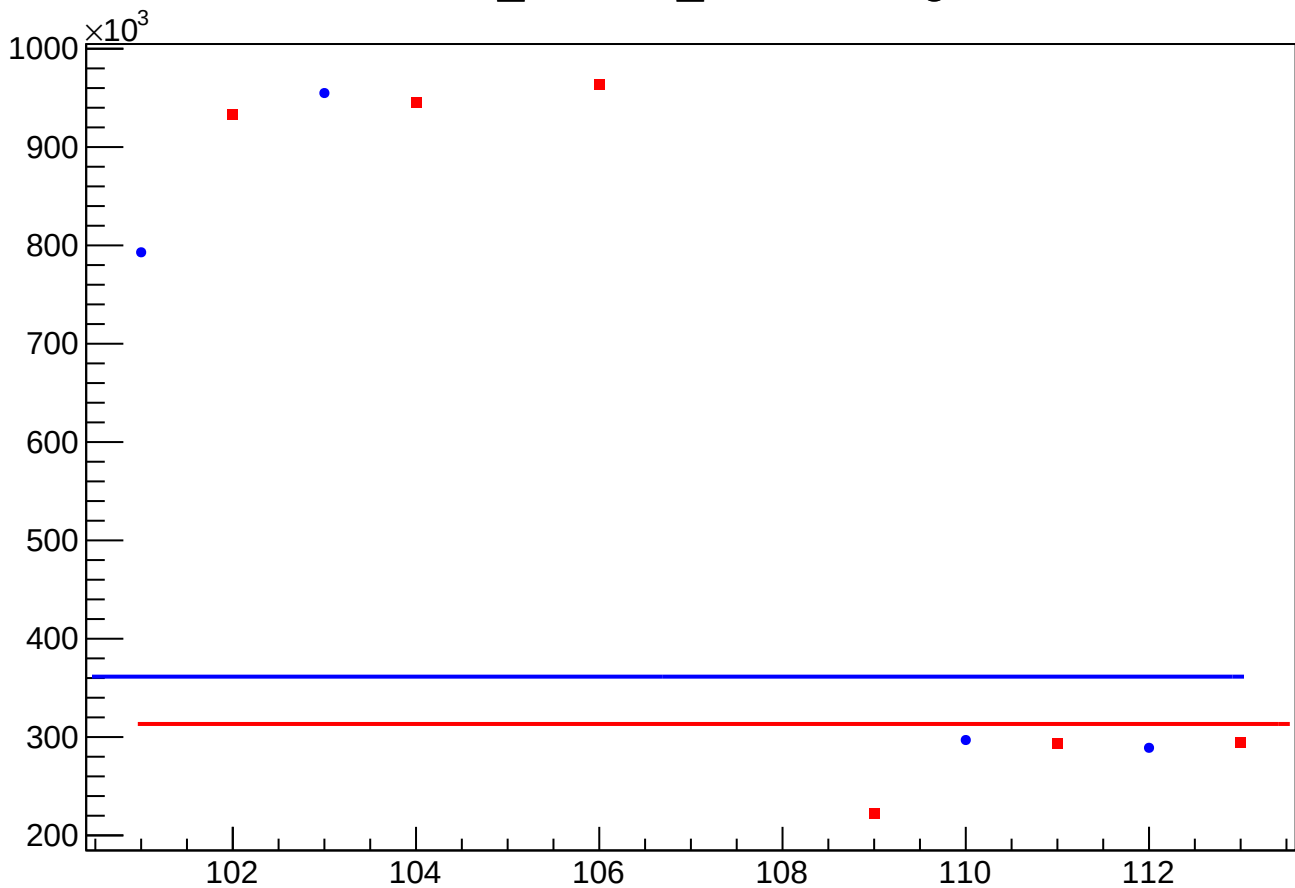
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -160.610+/-181.185  $\chi^2/\text{NDF}$ : 11.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4cY\_rms vs Slug



Right In: 361441.982 $\pm$ 206.828  $\chi^2$ /NDF: 789525.5/3

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

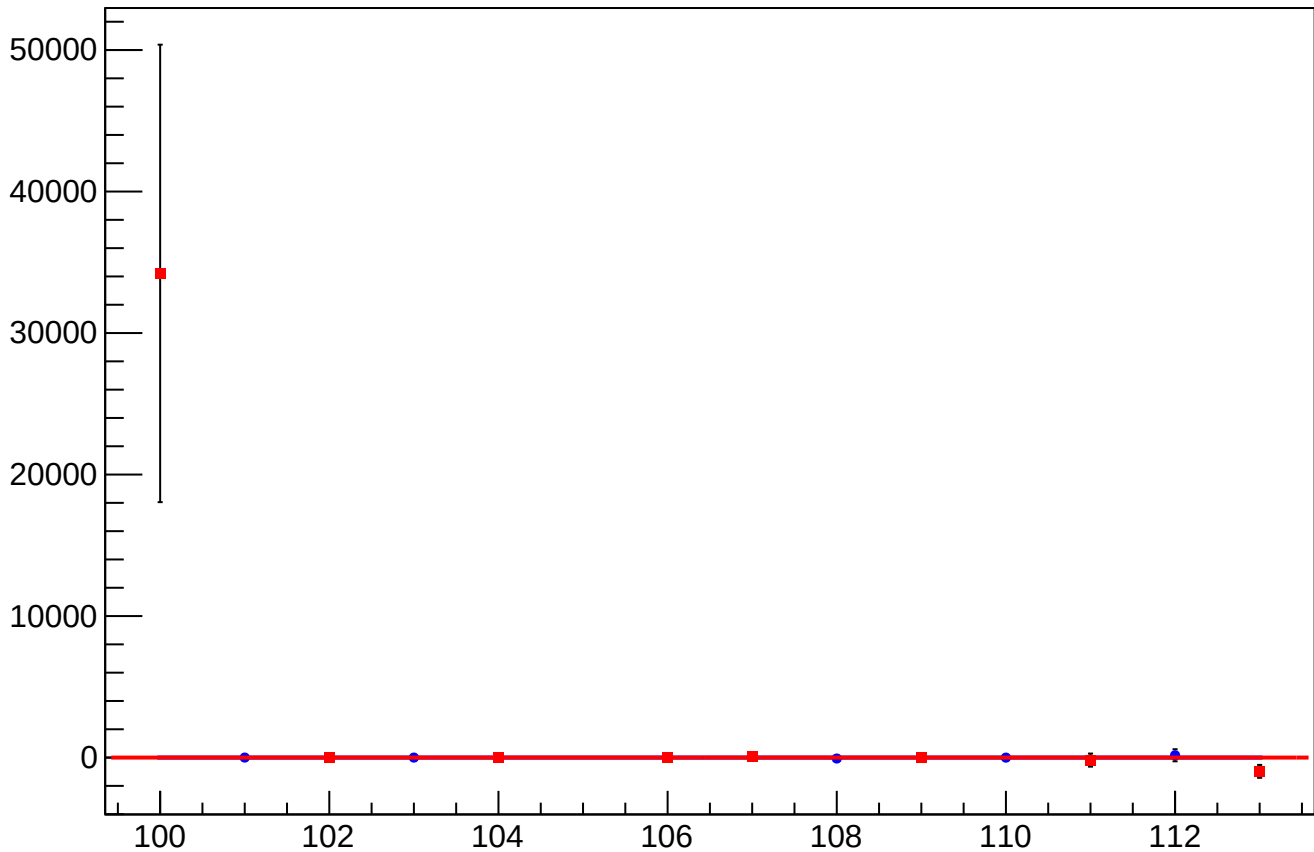
Right Out: 313310.657 $\pm$ 168.173  $\chi^2$ /NDF: 1030458.1/5

All: 332467.088 $\pm$ 130.483  $\chi^2$ /NDF: 1852584

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_cav4dX\_mean vs Slug



Right In:  $-0.035 \pm 0.172$   $\chi^2/\text{NDF}$ : 1.2/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.355 \pm 0.160$   $\chi^2/\text{NDF}$ : 9.9/7

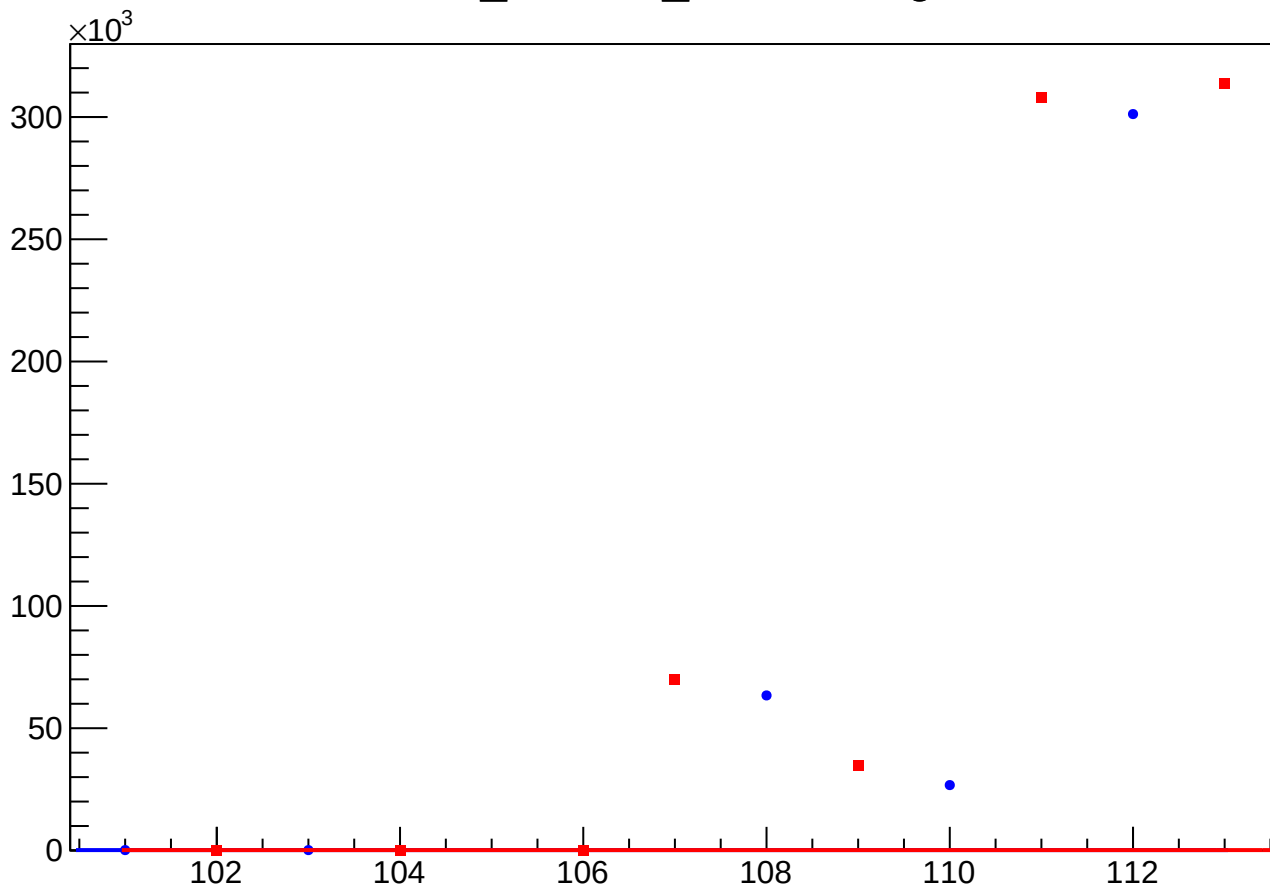
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.206 \pm 0.117$   $\chi^2/\text{NDF}$ : 13.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4dX\_rms vs Slug



Right In: 148.669 $\pm$ 0.122  $\chi^2/\text{NDF}$ : 2050416.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 149.067 $\pm$ 0.113  $\chi^2/\text{NDF}$ : 2920954.4/6

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

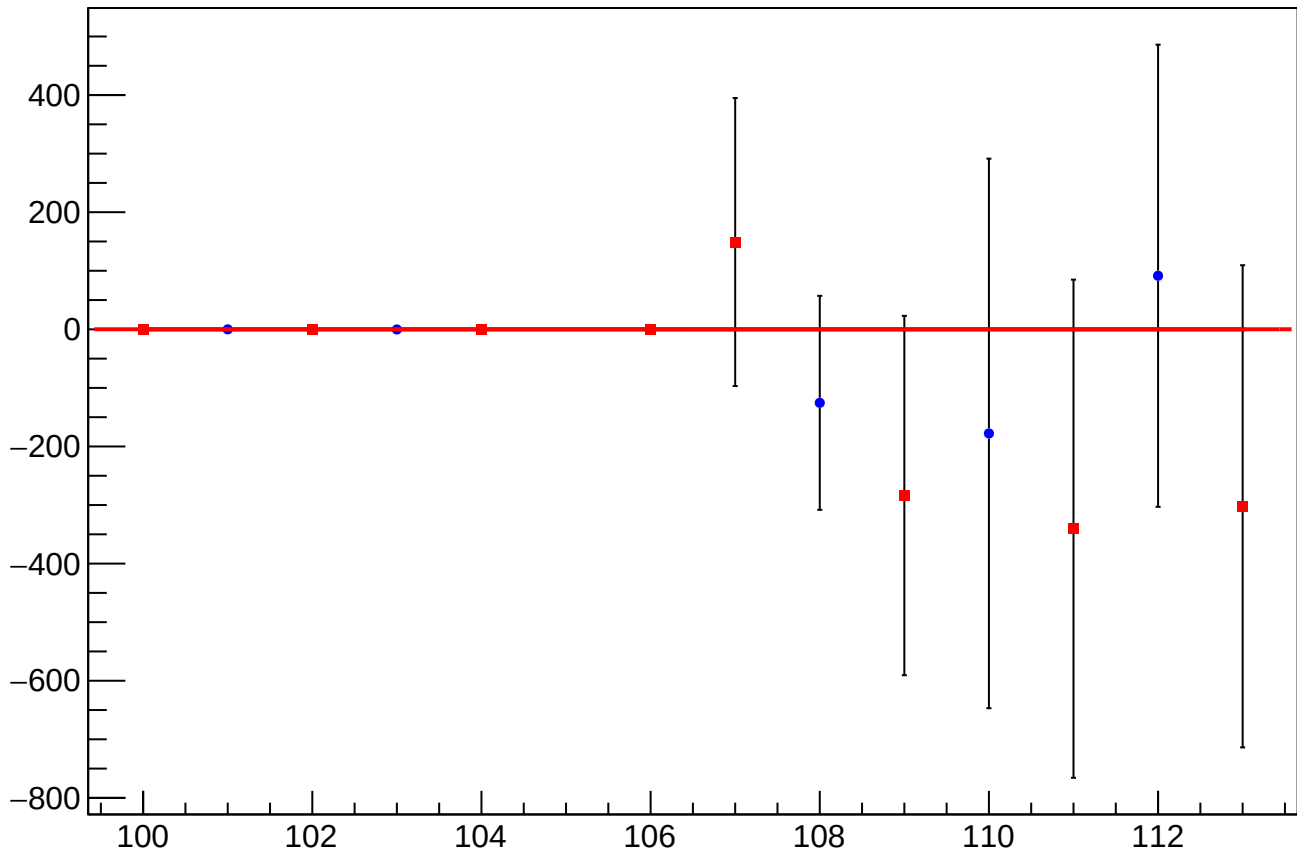
+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 148.883 $\pm$ 0.083  $\chi^2/\text{NDF}$ : 4971376.1/11

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_cav4dY\_mean vs Slug



Right In: -0.068+/-0.177  $\chi^2/\text{NDF}$ : 0.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.126+/-0.166  $\chi^2/\text{NDF}$ : 2.6/7

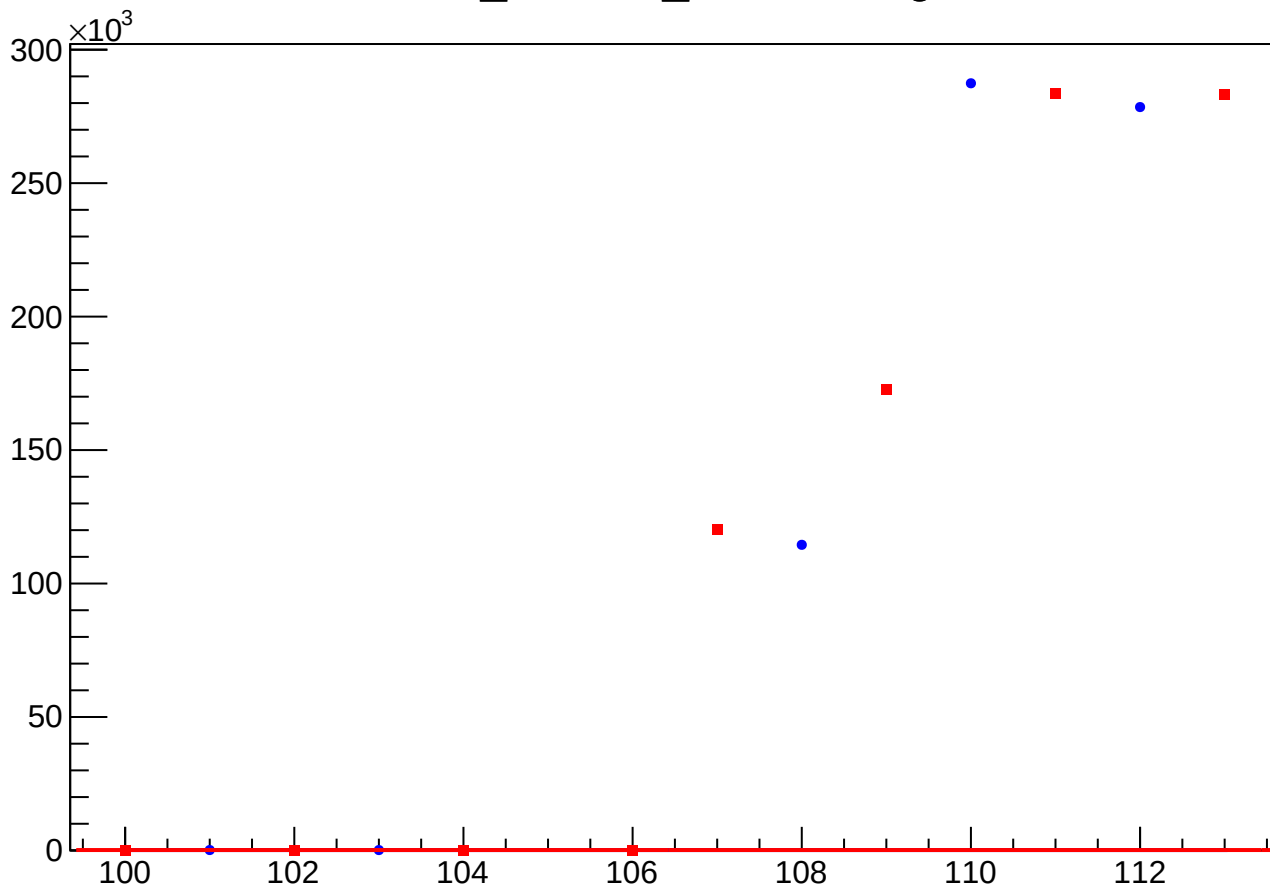
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.035+/-0.121  $\chi^2/\text{NDF}$ : 4.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4dY\_rms vs Slug



Right In: 152.719 $\pm$ 0.125  $\chi^2/\text{NDF}$ : 2529246.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

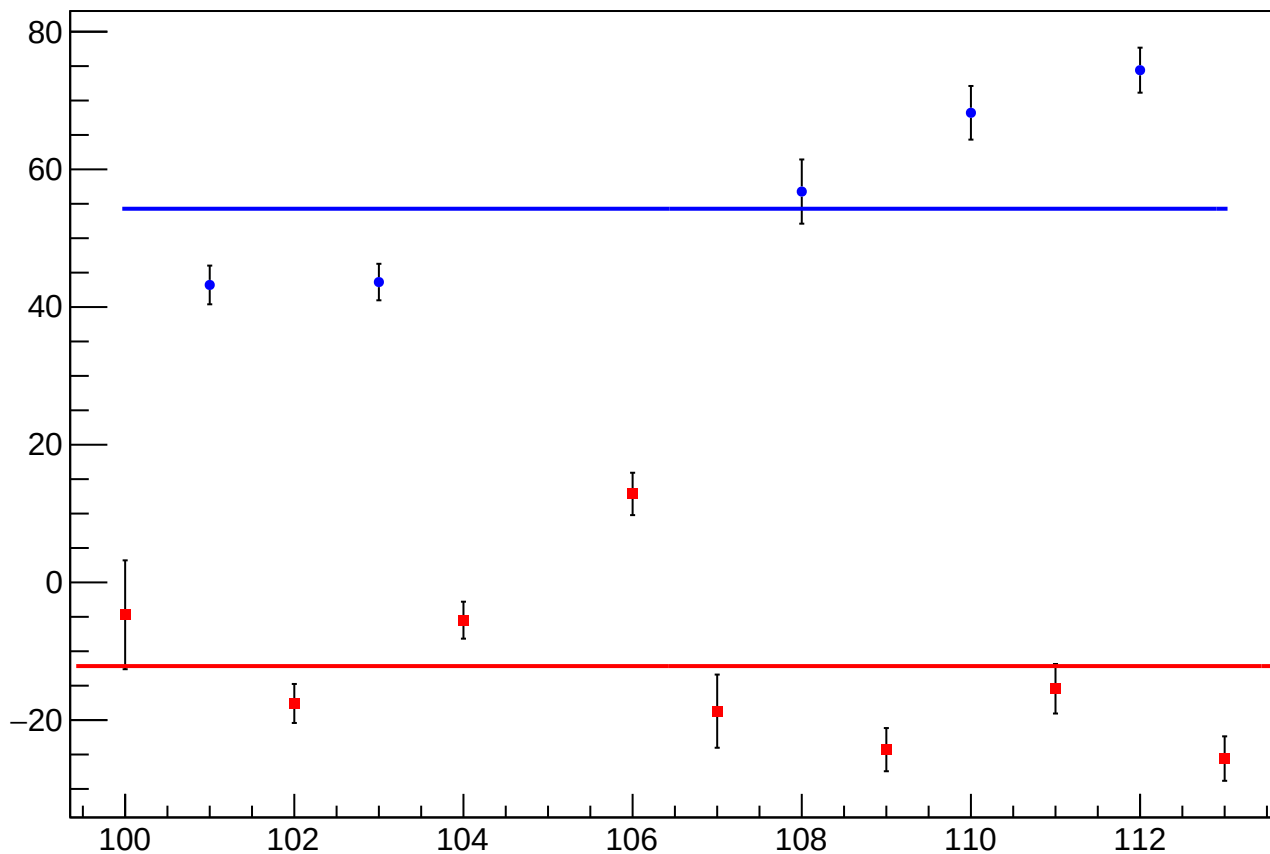
Right Out: 155.549 $\pm$ 0.118  $\chi^2/\text{NDF}$ : 2937158.8/7

All: 154.222 $\pm$ 0.086  $\chi^2/\text{NDF}$ : 5466676.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i01X\_mean vs Slug



Right In: 54.281 $\pm$ 1.452  $\chi^2$ /NDF: 82.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -12.154 $\pm$ 1.199  $\chi^2$ /NDF: 111.4/7

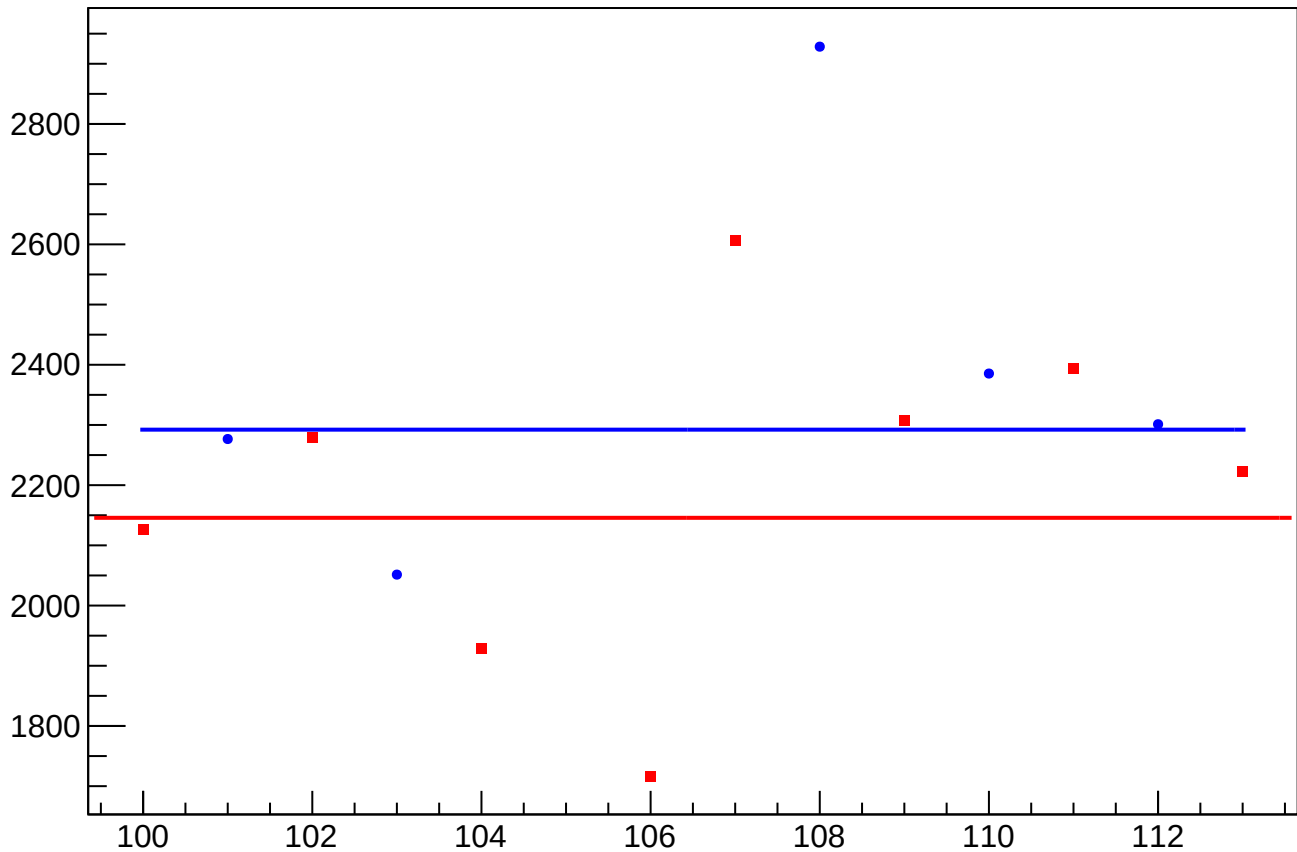
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 14.791 $\pm$ 0.925  $\chi^2$ /NDF: 1438.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i01X\_rms vs Slug



Right In: 2292.205+/-1.027  $\chi^2/\text{NDF}$ : 54940.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2145.753+/-0.848  $\chi^2/\text{NDF}$ : 87523.2/7

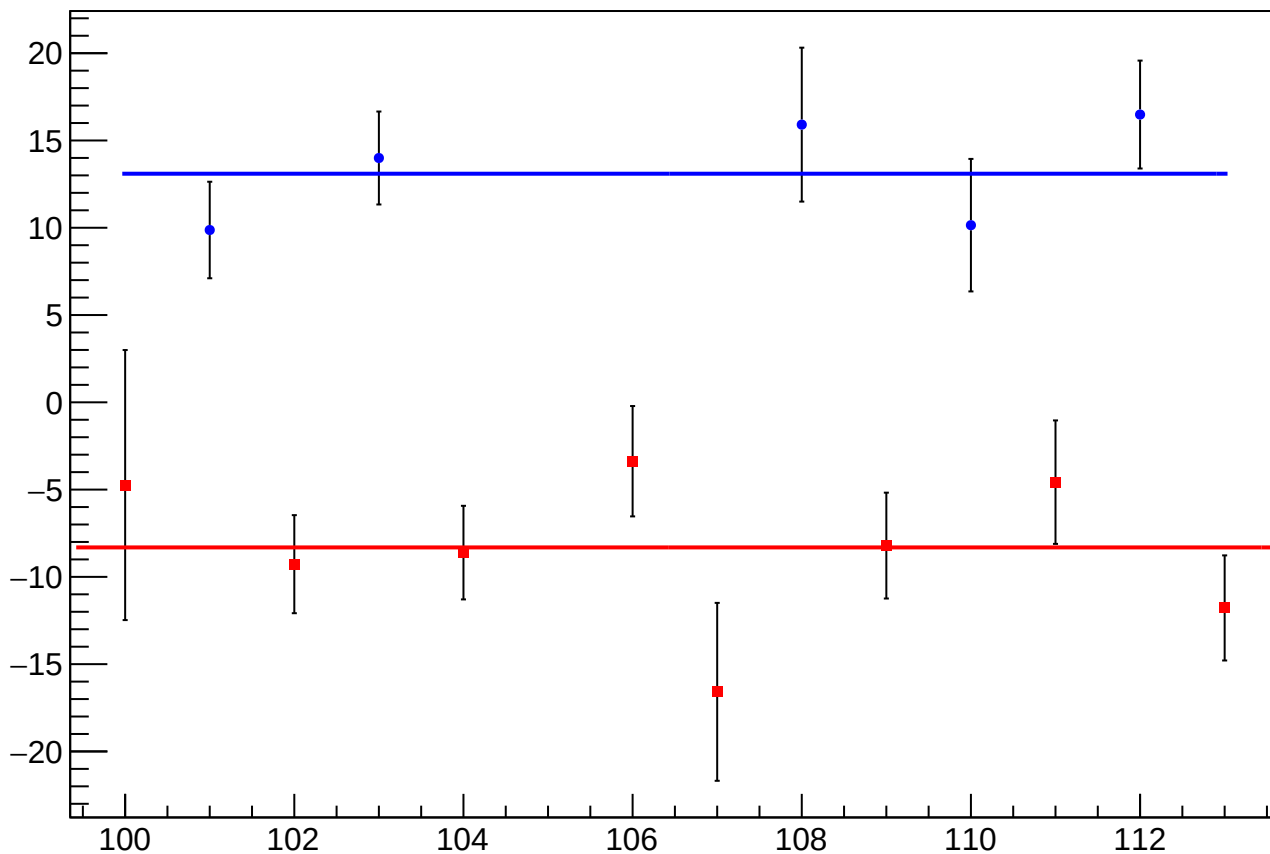
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2205.151+/-0.654  $\chi^2/\text{NDF}$ : 154556.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i01Y\_mean vs Slug



Right In: 13.096 $\pm$ 1.418  $\chi^2$ /NDF: 3.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.313 $\pm$ 1.178  $\chi^2$ /NDF: 7.9/7

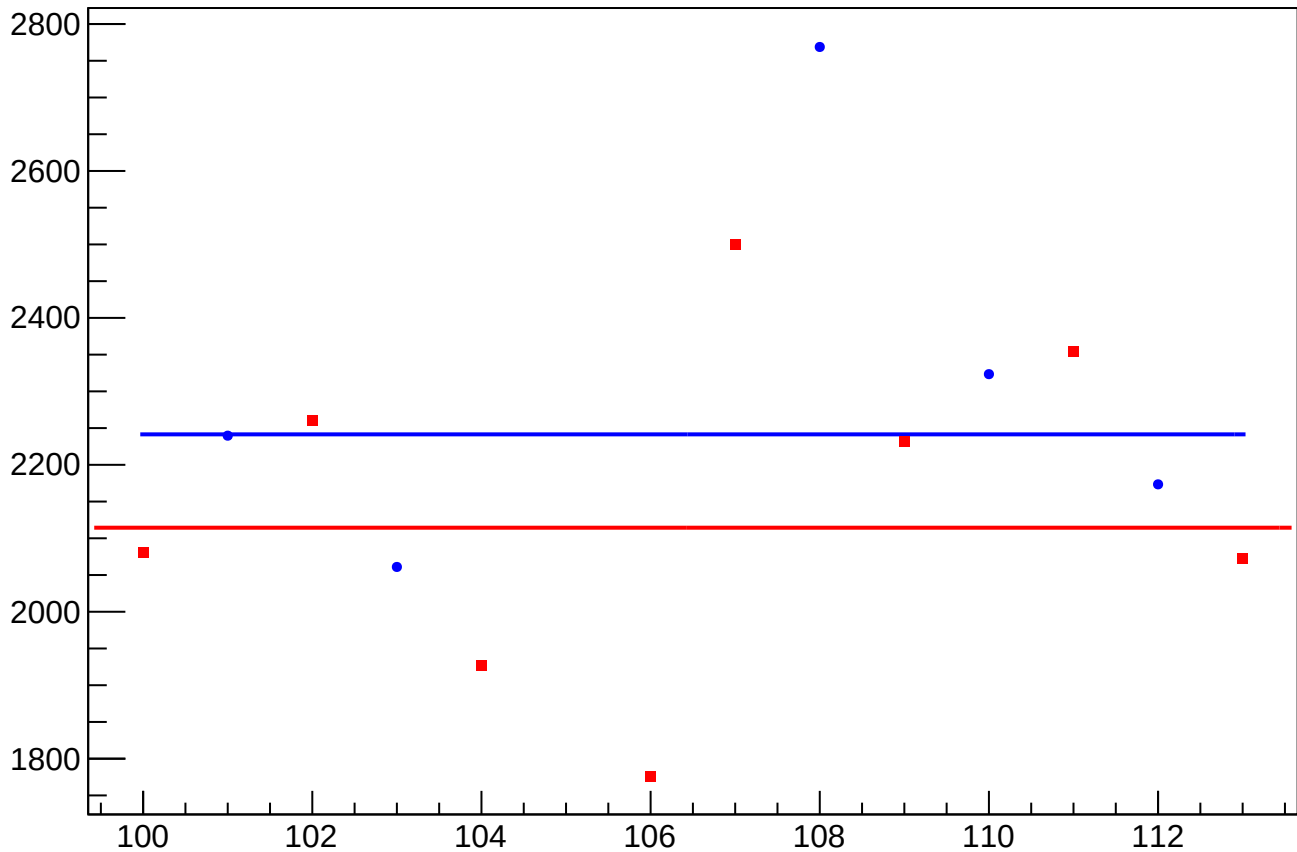
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.433 $\pm$ 0.906  $\chi^2$ /NDF: 146.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i01Y\_rms vs Slug



Right In: 2241.471+/-1.003  $\chi^2/\text{NDF}$ : 39701.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2114.414+/-0.833  $\chi^2/\text{NDF}$ : 62218.9/7

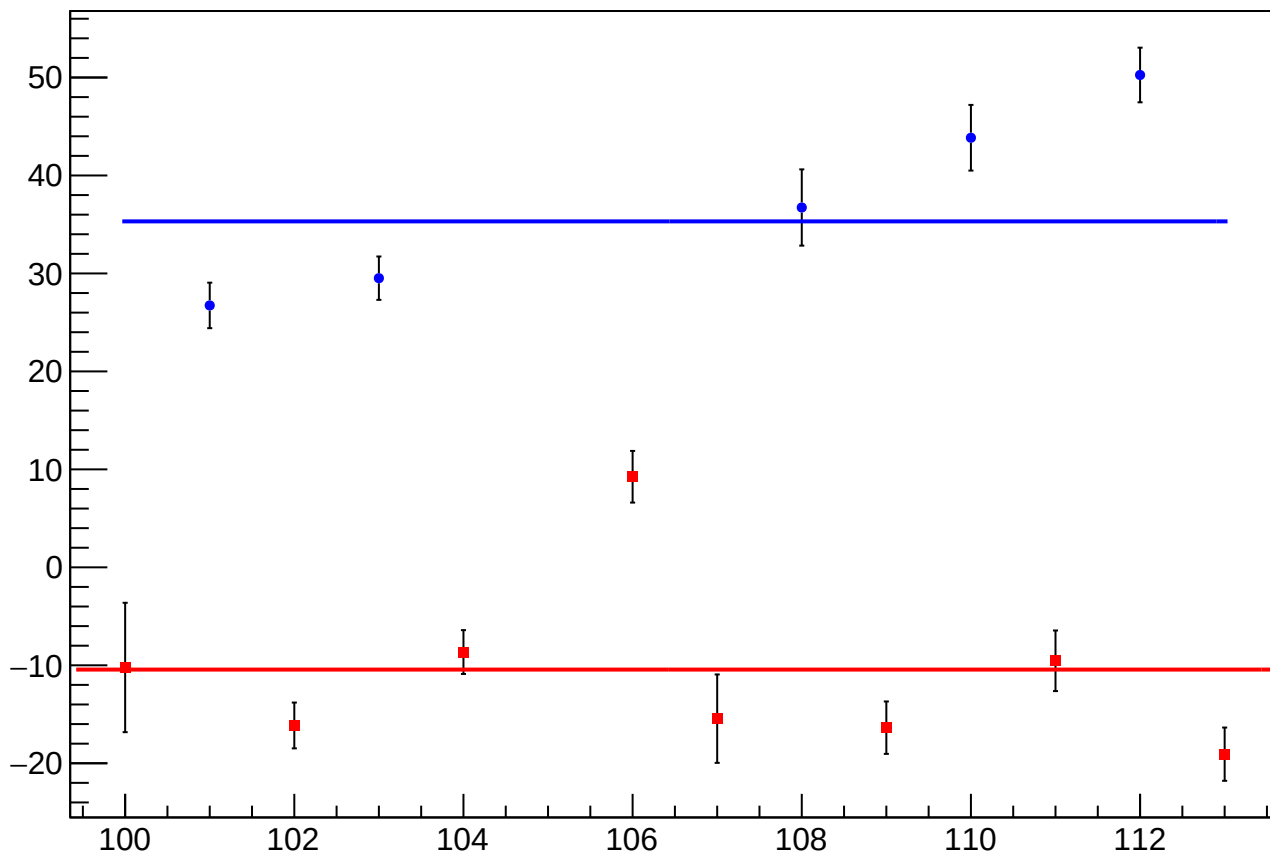
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2166.320+/-0.641  $\chi^2/\text{NDF}$ : 111420.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i01aX\_mean vs Slug



Right In: 35.314+/-1.219  $\chi^2/\text{NDF}$ : 55.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10.437+/-1.011  $\chi^2/\text{NDF}$ : 78.6/7

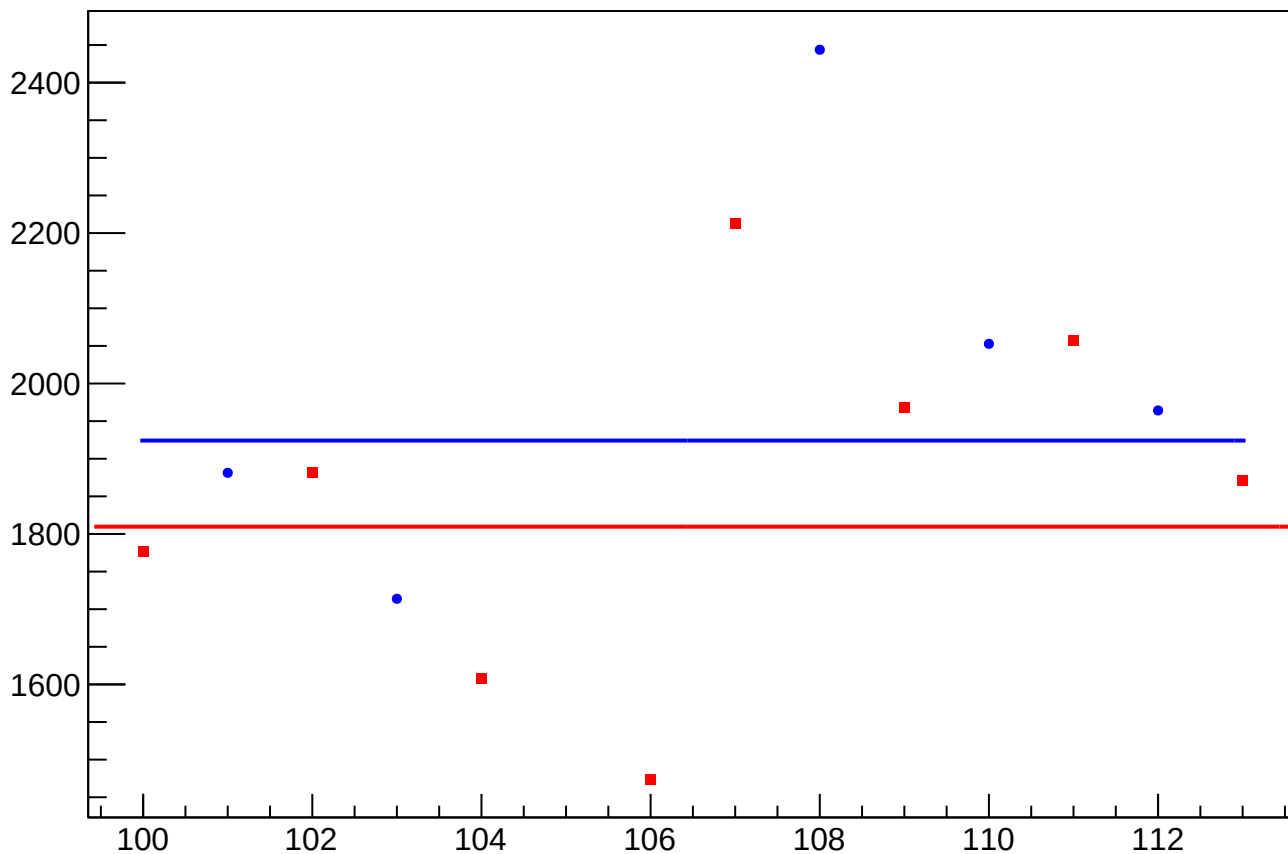
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8.215+/-0.778  $\chi^2/\text{NDF}$ : 969.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i01aX\_rms vs Slug



Right In: 1924.175+/-0.862  $\chi^2/\text{NDF}$ : 57747.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1809.719+/-0.715  $\chi^2/\text{NDF}$ : 87550.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

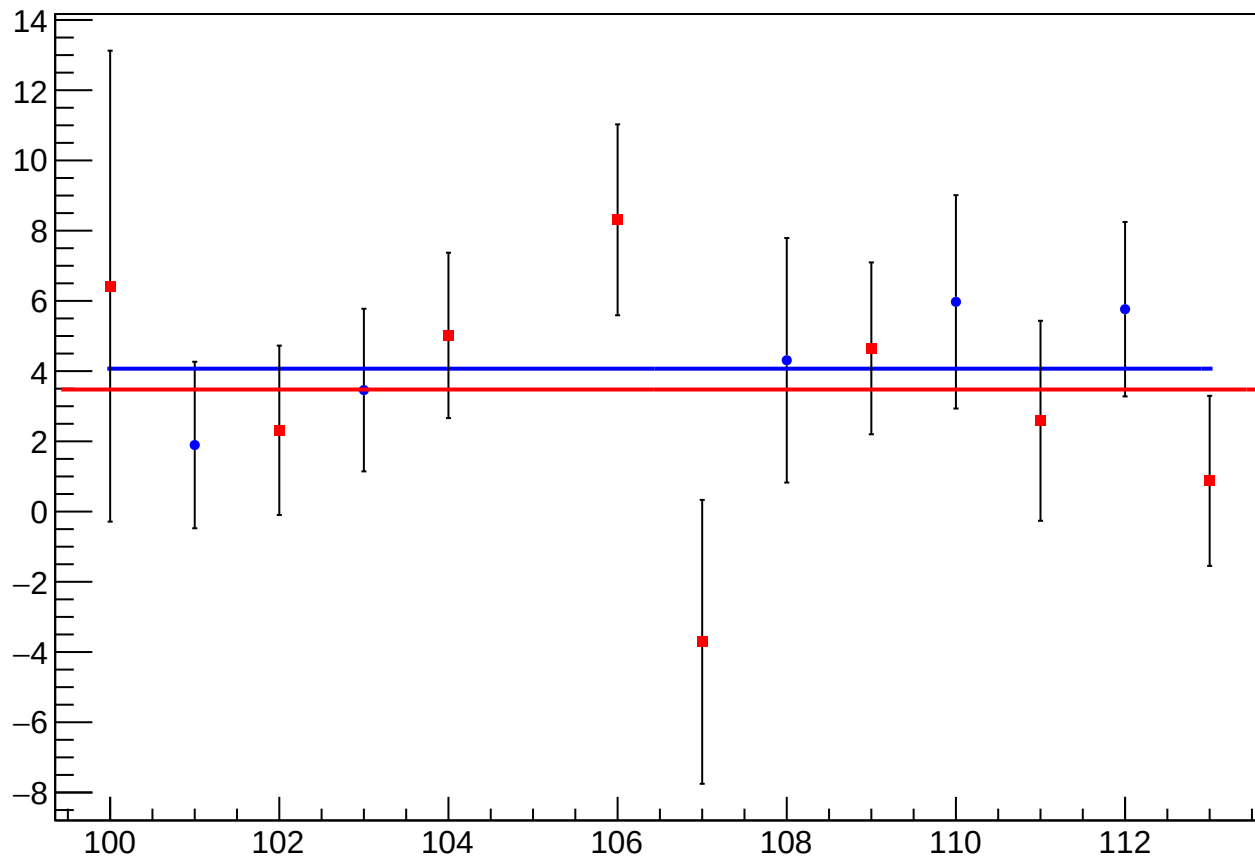
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1856.379+/-0.550  $\chi^2/\text{NDF}$ : 155744.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm0i01aY\_mean vs Slug



Right In: 4.070 $\pm$ 1.181  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.476 $\pm$ 0.985  $\chi^2$ /NDF: 8.7/7

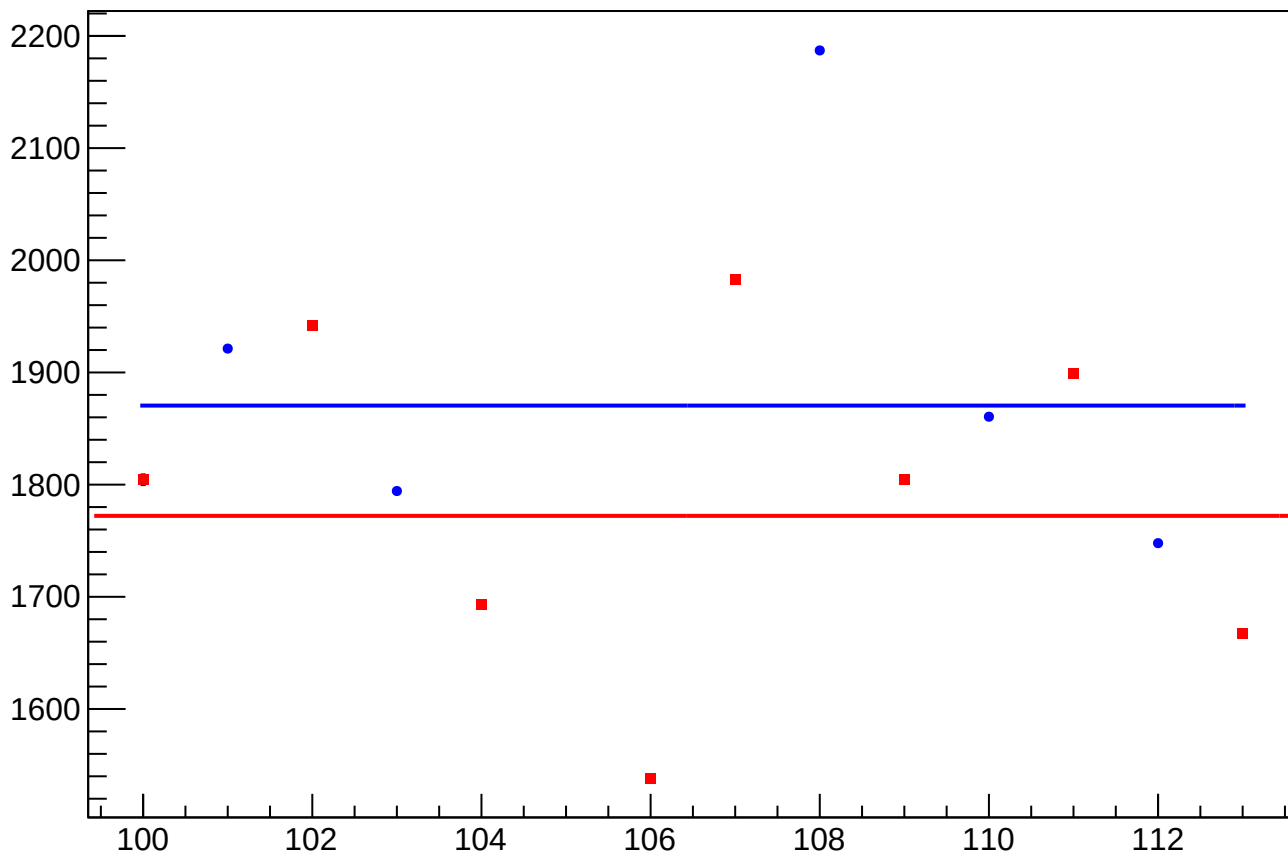
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.720 $\pm$ 0.756  $\chi^2$ /NDF: 10.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i01aY\_rms vs Slug



Right In: 1870.475+/-0.835  $\chi^2/\text{NDF}$ : 24513.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1772.177+/-0.696  $\chi^2/\text{NDF}$ : 40487.3/7

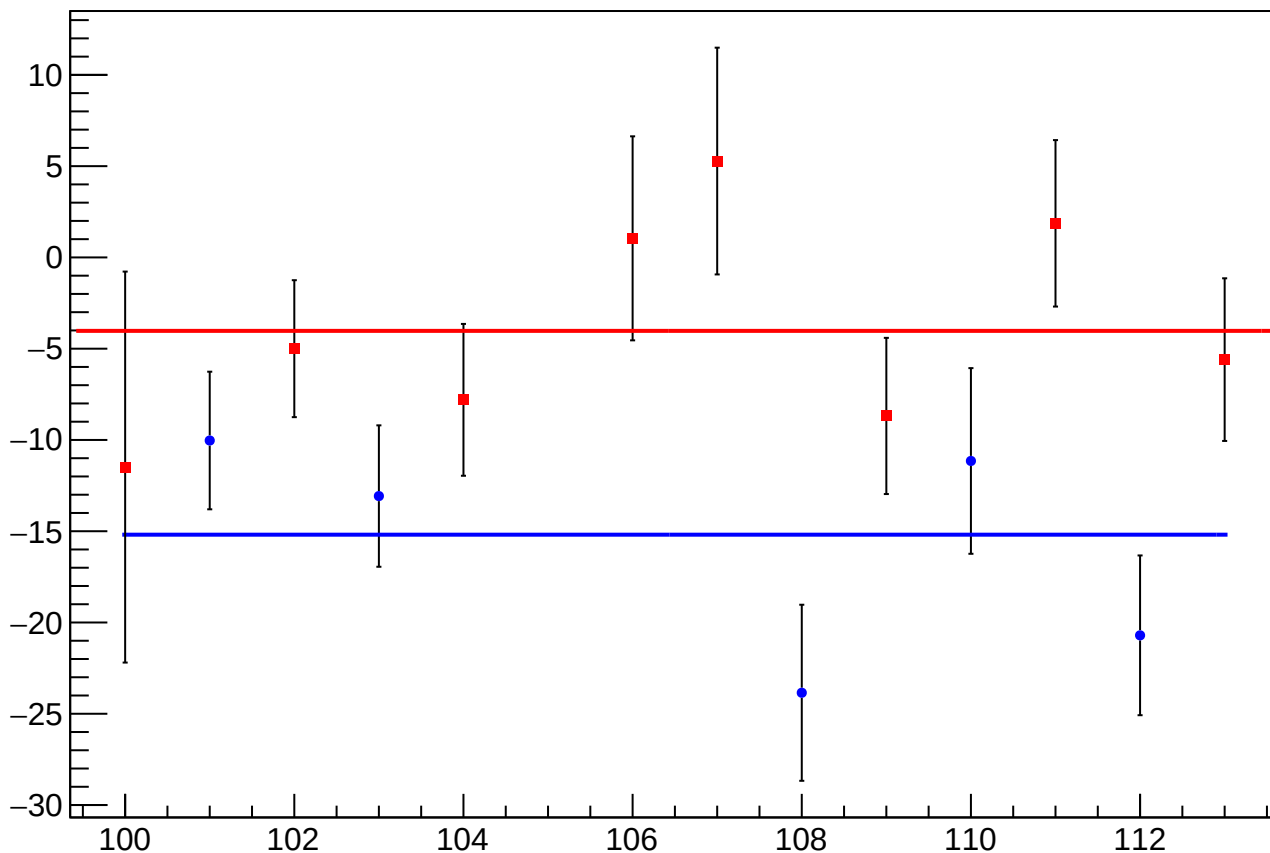
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1812.488+/-0.535  $\chi^2/\text{NDF}$ : 73177.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l01X\_mean vs Slug



Right In:  $-15.190 \pm 1.921$   $\chi^2/\text{NDF}: 7.6/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-4.024 \pm 1.694$   $\chi^2/\text{NDF}: 7.4/7$

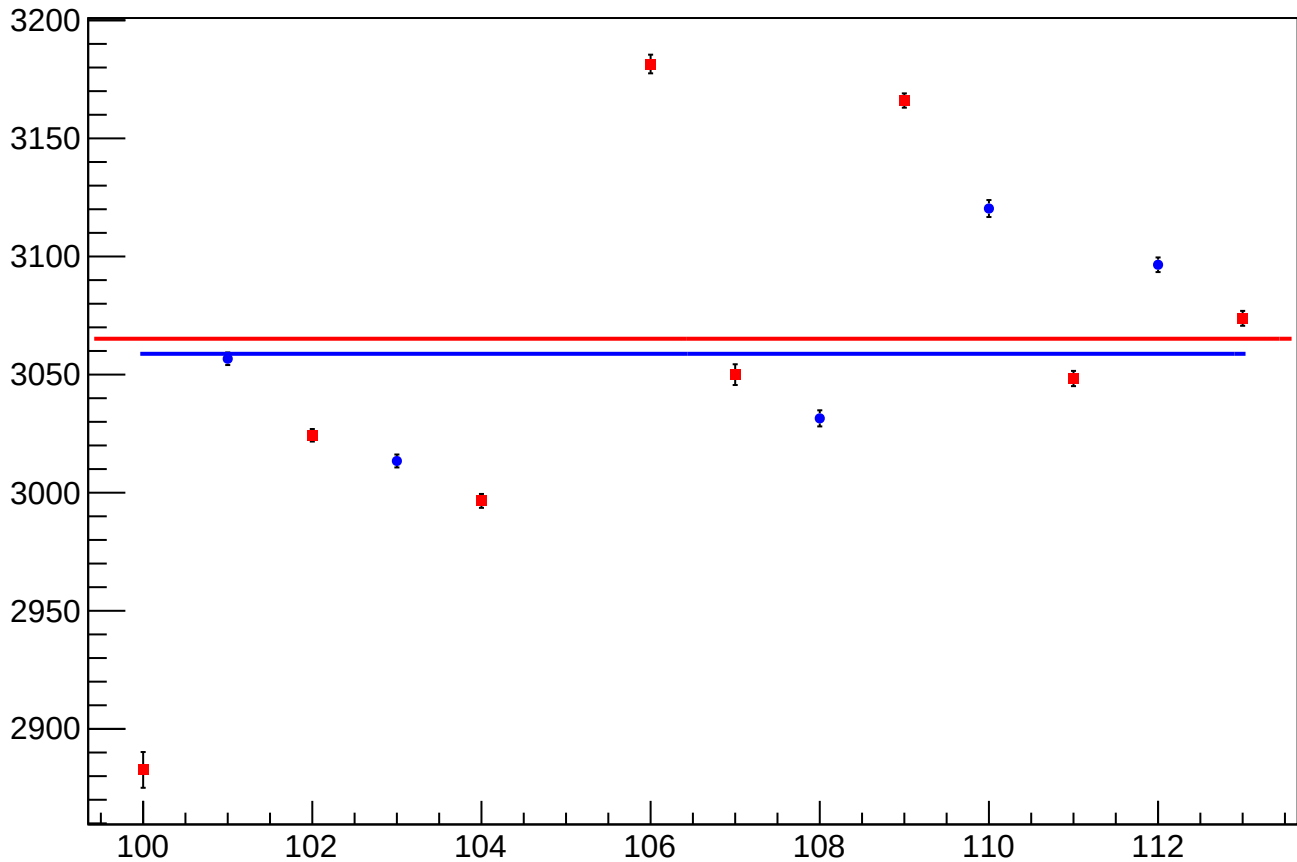
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-8.906 \pm 1.270$   $\chi^2/\text{NDF}: 34.0/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# diff\_bpm0l01X\_rms vs Slug



Right In: 3058.802 $\pm$ 1.359  $\chi^2$ /NDF: 780.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3065.181 $\pm$ 1.198  $\chi^2$ /NDF: 3387.6/7

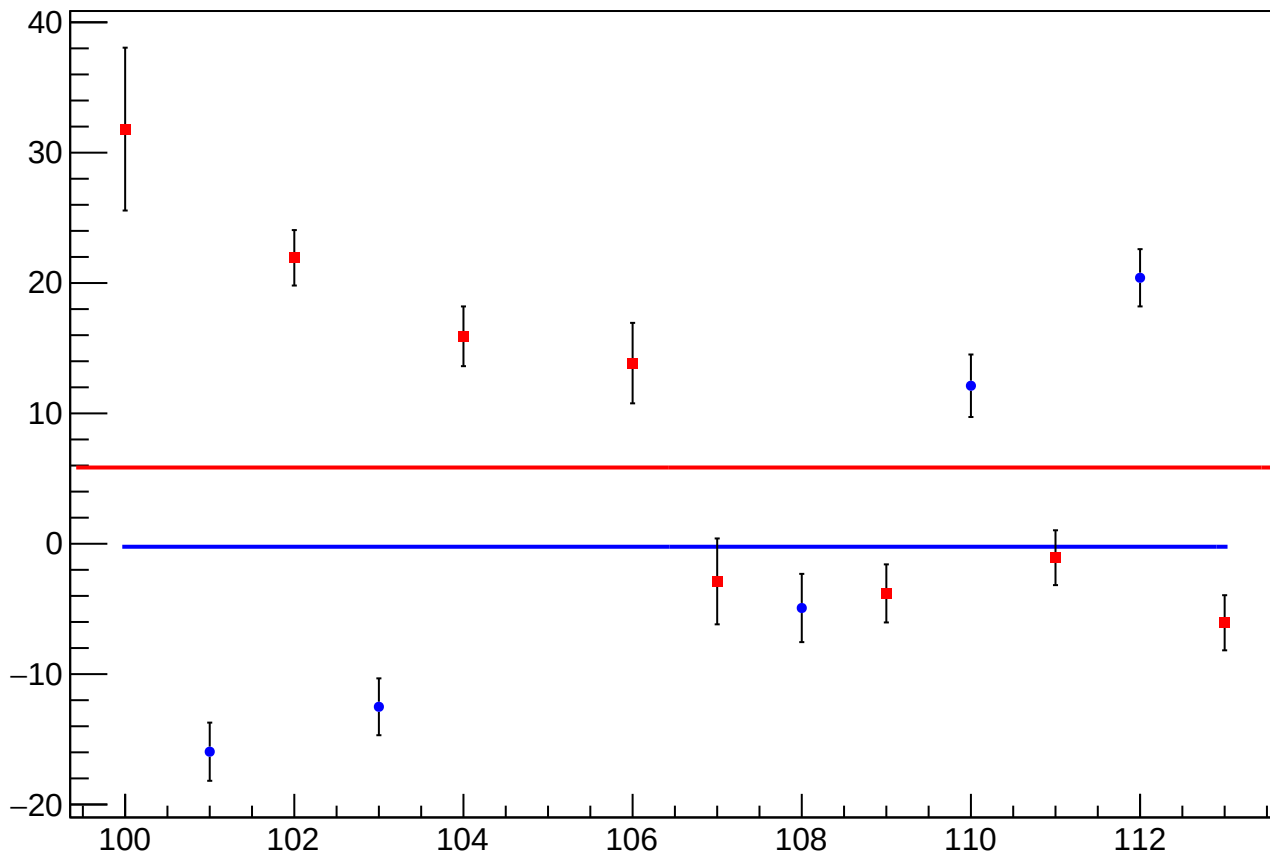
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3062.392 $\pm$ 0.898  $\chi^2$ /NDF: 4180.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l01Y\_mean vs Slug



Right In:  $-0.229 \pm 1.032$   $\chi^2/\text{NDF}$ : 199.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $5.849 \pm 0.882$   $\chi^2/\text{NDF}$ : 168.9/7

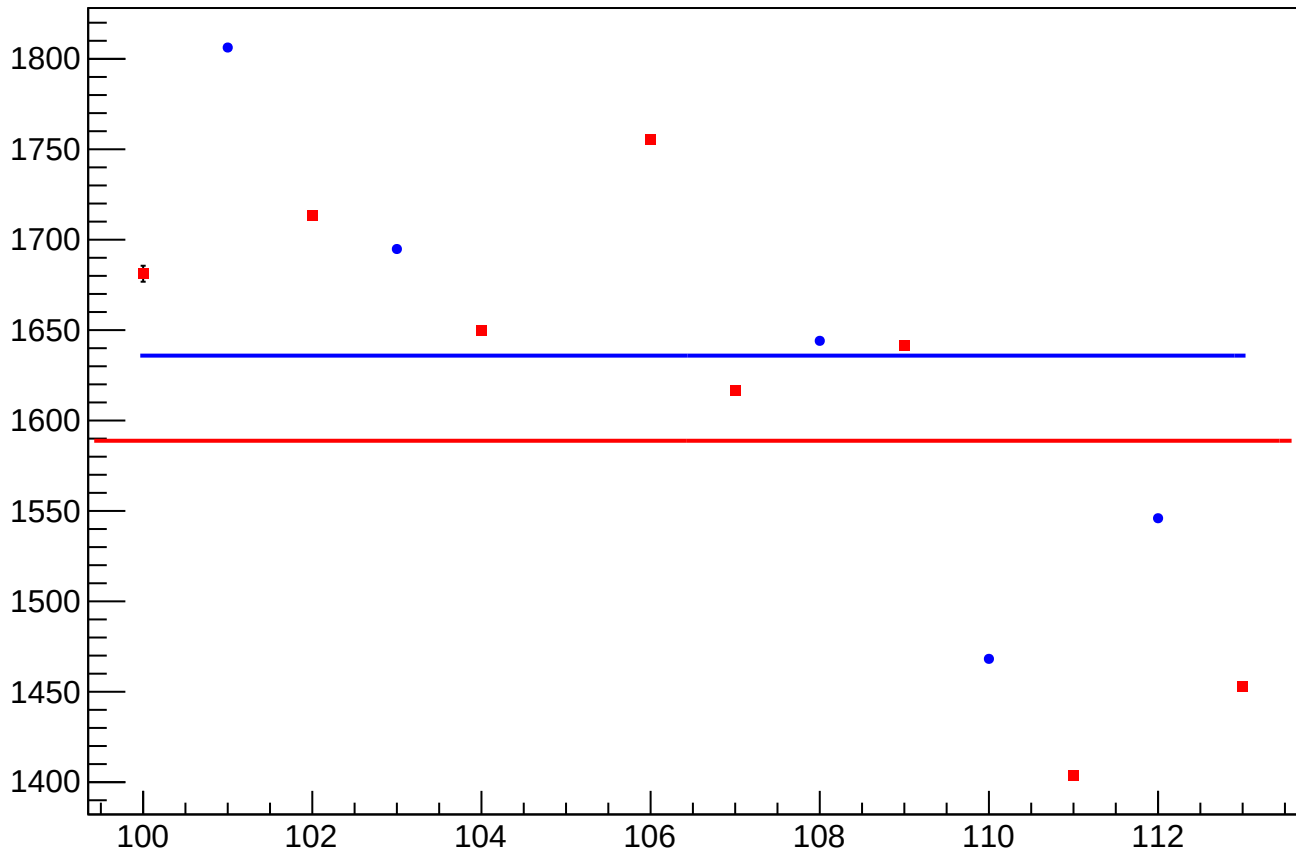
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $3.284 \pm 0.671$   $\chi^2/\text{NDF}$ : 388.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l01Y\_rms vs Slug



Right In: 1635.894+/-0.730  $\chi^2/\text{NDF}$ : 26279.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1588.812+/-0.624  $\chi^2/\text{NDF}$ : 39500.7/7

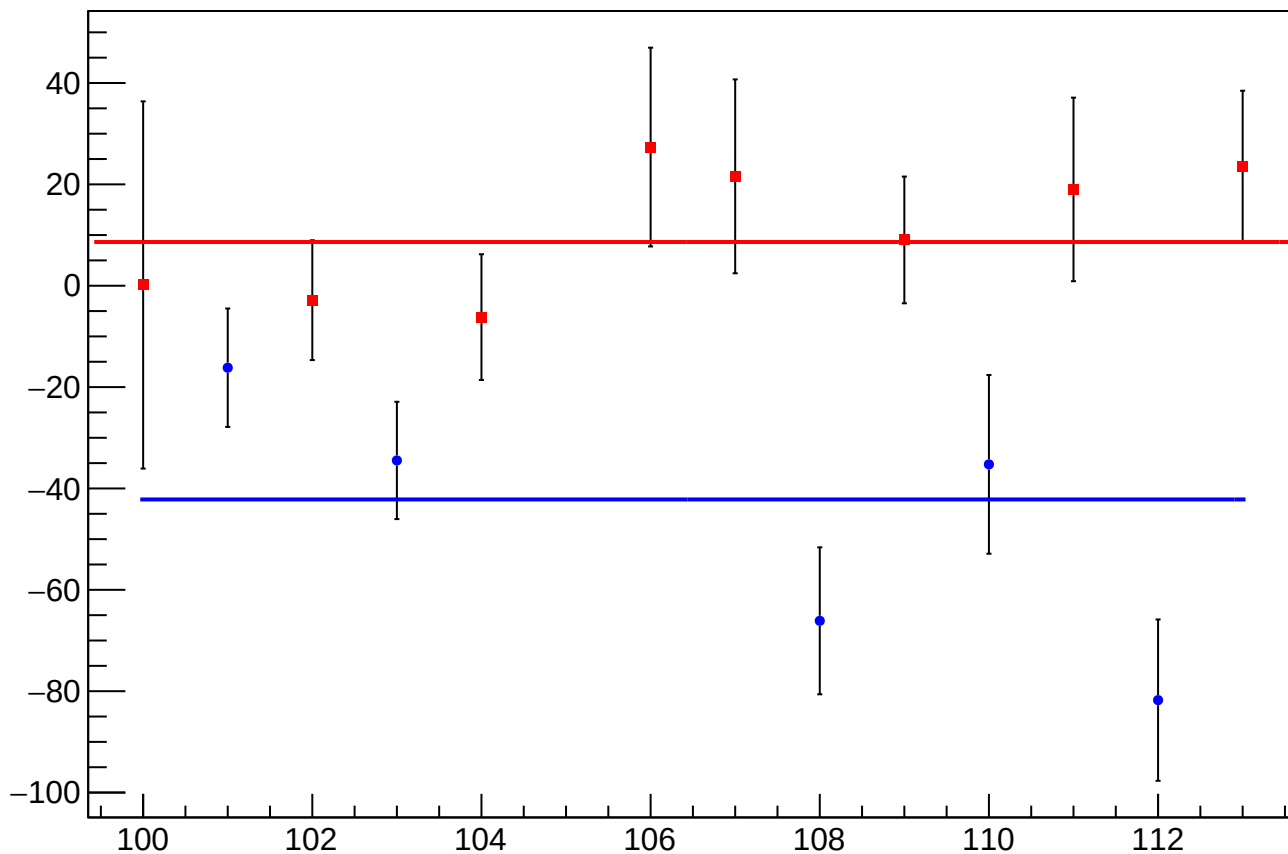
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1608.677+/-0.474  $\chi^2/\text{NDF}$ : 68184.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l02X\_mean vs Slug



Right In:  $-42.168 \pm 6.118$   $\chi^2/\text{NDF}$ : 14.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $8.629 \pm 5.449$   $\chi^2/\text{NDF}$ : 5.1/7

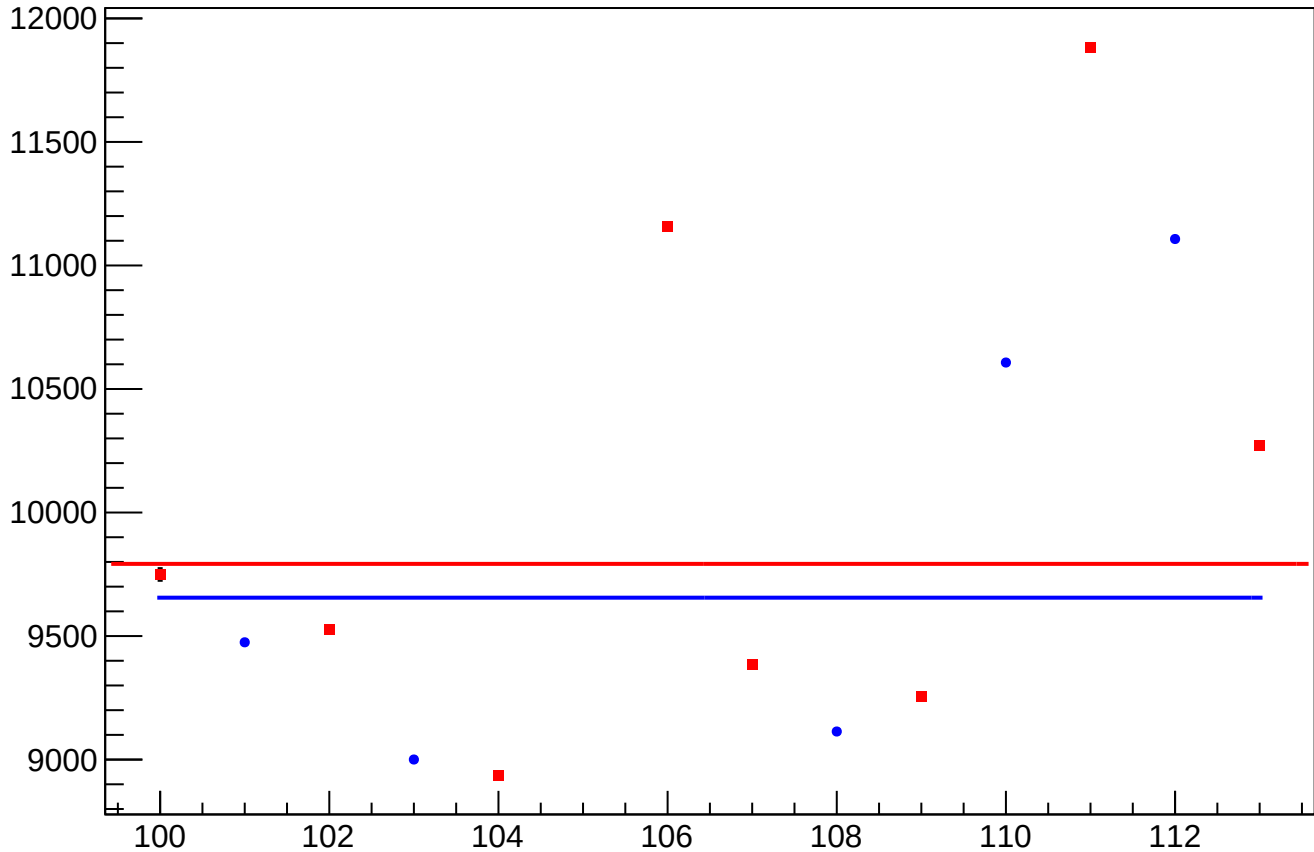
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-13.840 \pm 4.069$   $\chi^2/\text{NDF}$ : 58.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l02X\_rms vs Slug



Right In: 9655.354+/-4.326  $\chi^2/\text{NDF}$ : 32144.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9792.147+/-3.853  $\chi^2/\text{NDF}$ : 53540.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

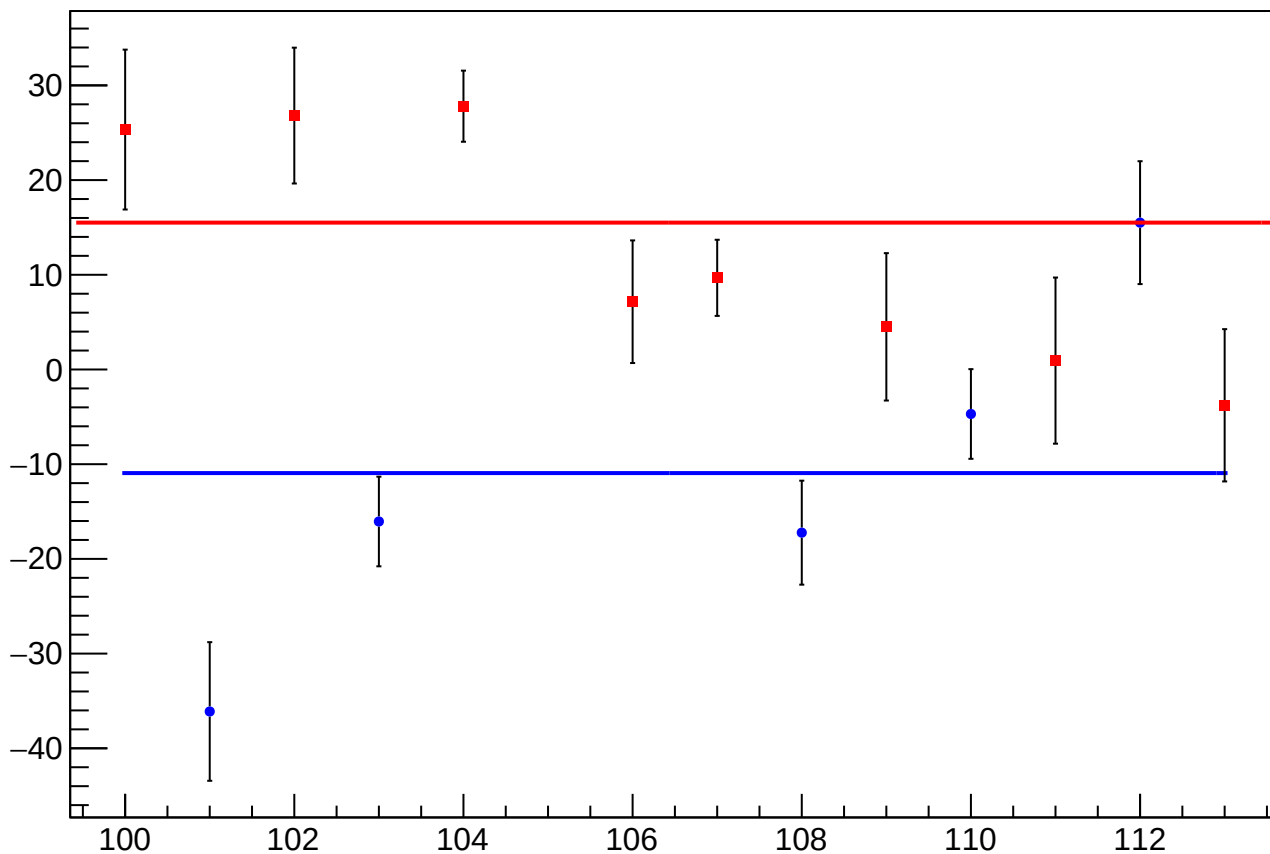
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9731.639+/-2.877  $\chi^2/\text{NDF}$ : 86242.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm0l02Y\_mean vs Slug



Right In:  $-10.939 \pm 2.463$   $\chi^2/\text{NDF}$ : 32.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $15.509 \pm 2.062$   $\chi^2/\text{NDF}$ : 28.8/7

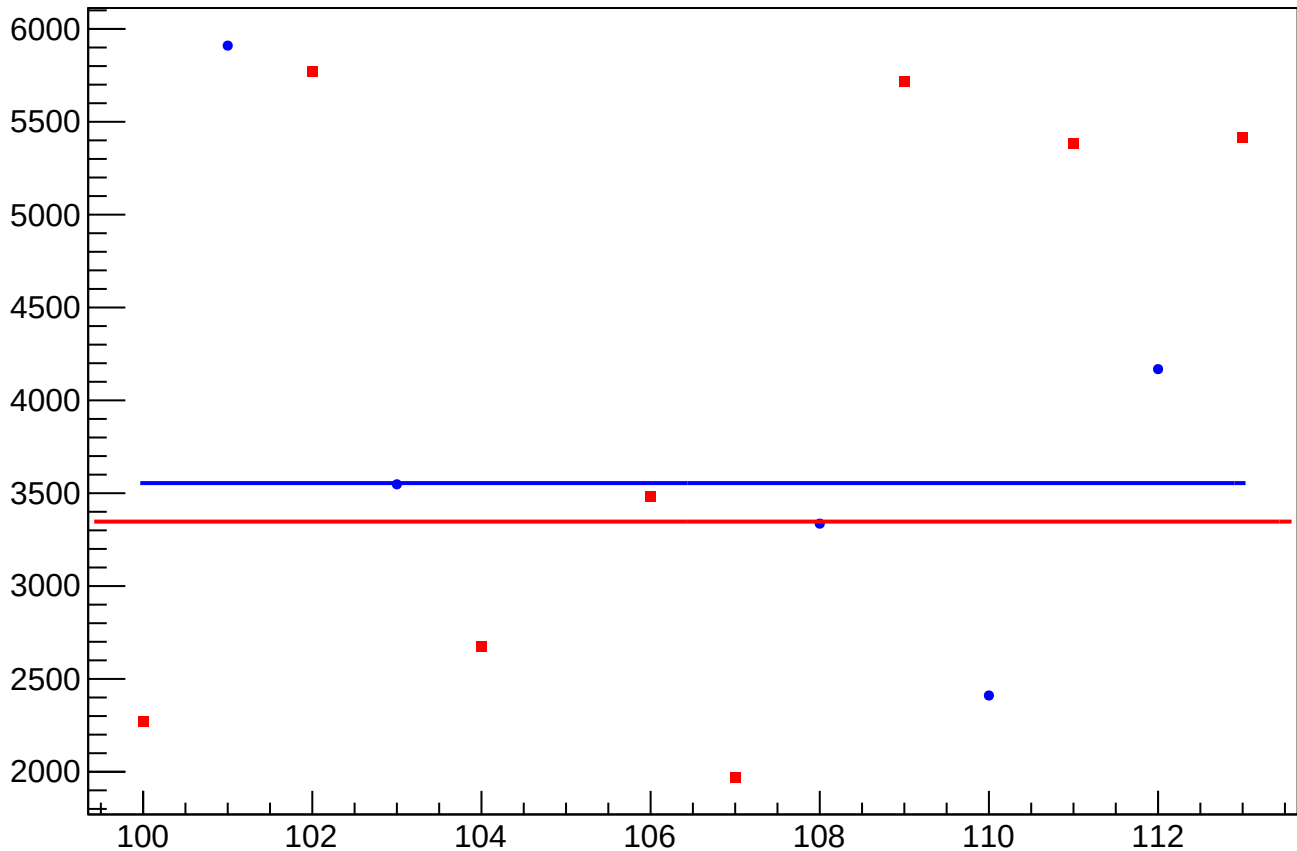
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $4.610 \pm 1.581$   $\chi^2/\text{NDF}$ : 129.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l02Y\_rms vs Slug



Right In: 3554.461+/-1.742  $\chi^2/\text{NDF}$ : 344905.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3347.148+/-1.458  $\chi^2/\text{NDF}$ : 985437.8/7

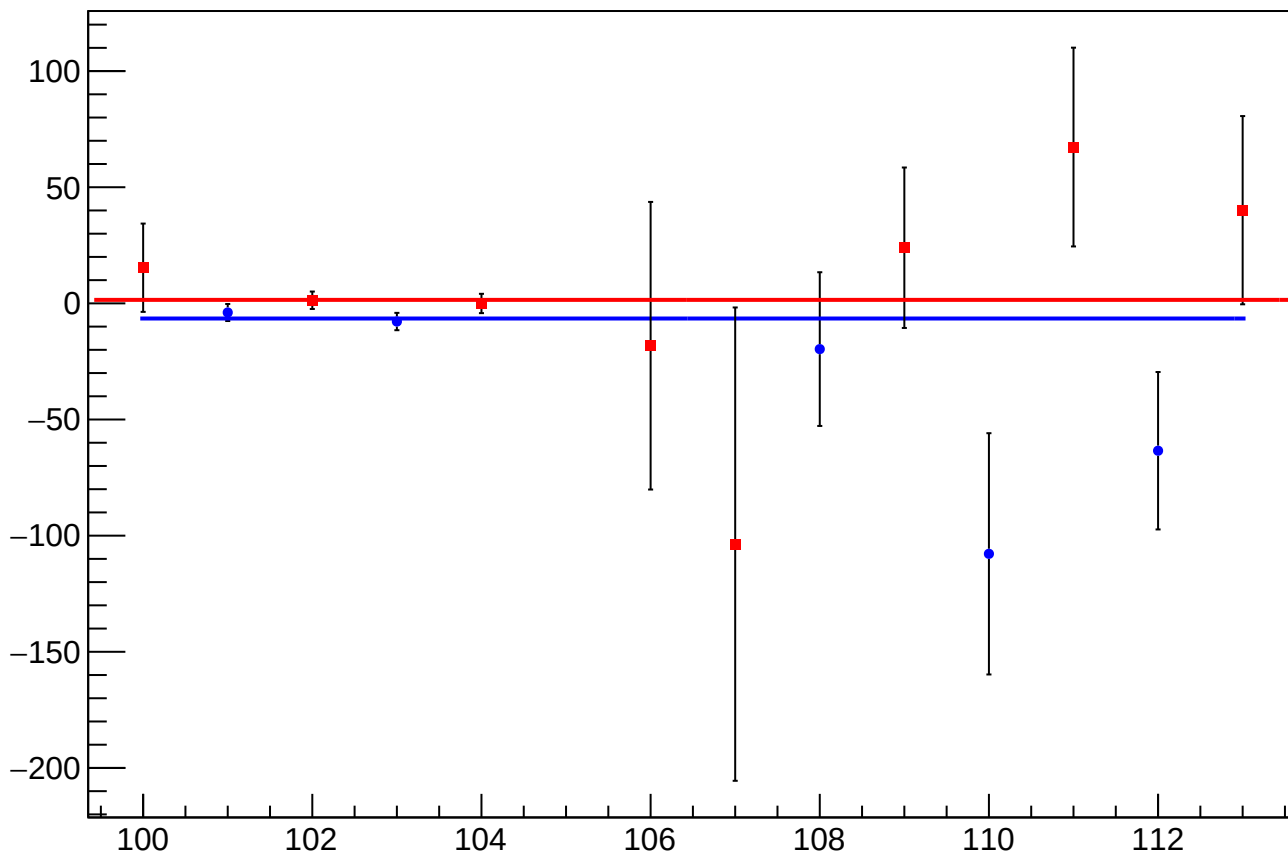
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3432.584+/-1.118  $\chi^2/\text{NDF}$ : 1338673.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l03X\_mean vs Slug



Right In: -6.519+/-2.596  $\chi^2$ /NDF: 7.4/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.504+/-2.732  $\chi^2$ /NDF: 5.5/7

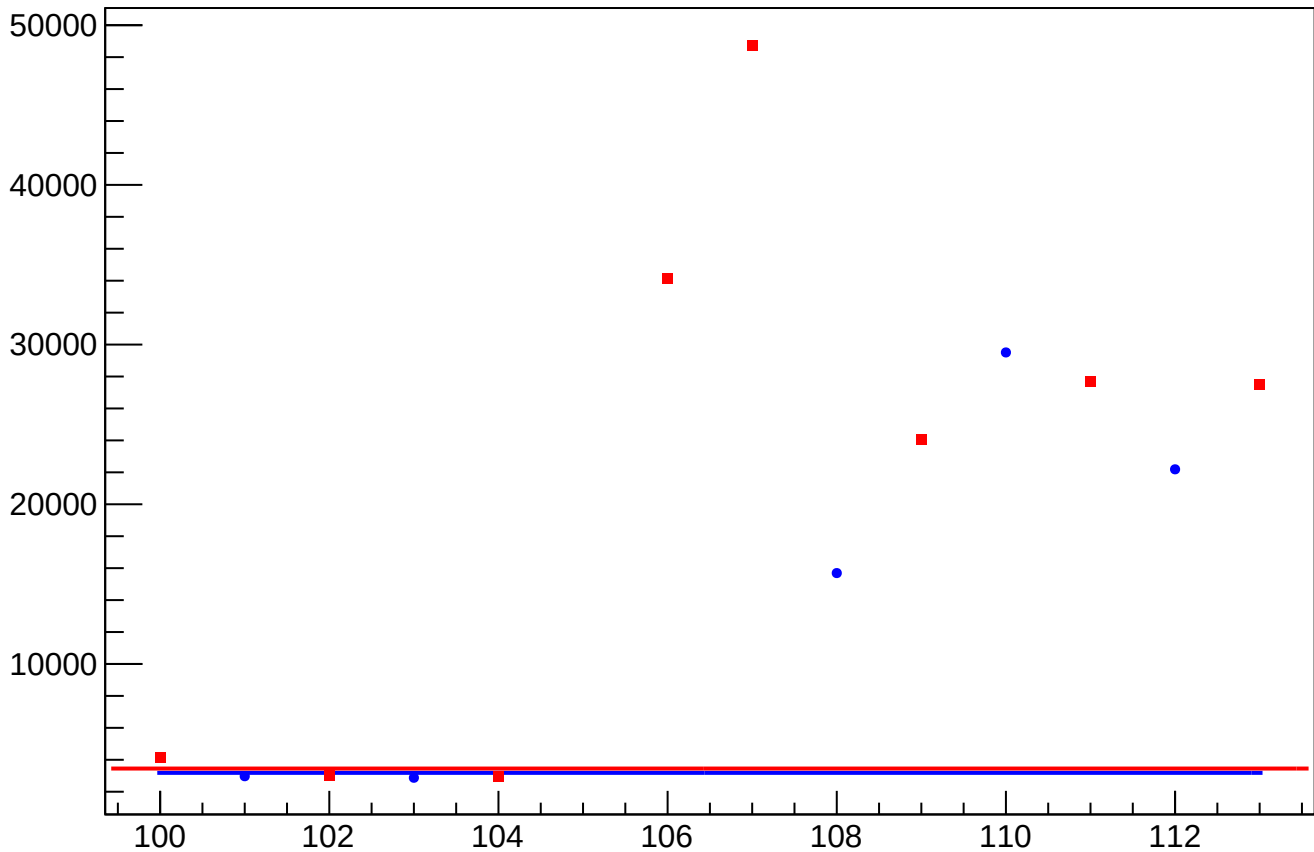
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -2.711+/-1.882  $\chi^2$ /NDF: 17.5/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l03X\_rms vs Slug



Right In: 3181.632+/-1.836  $\chi^2/\text{NDF}$ : 1449112.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

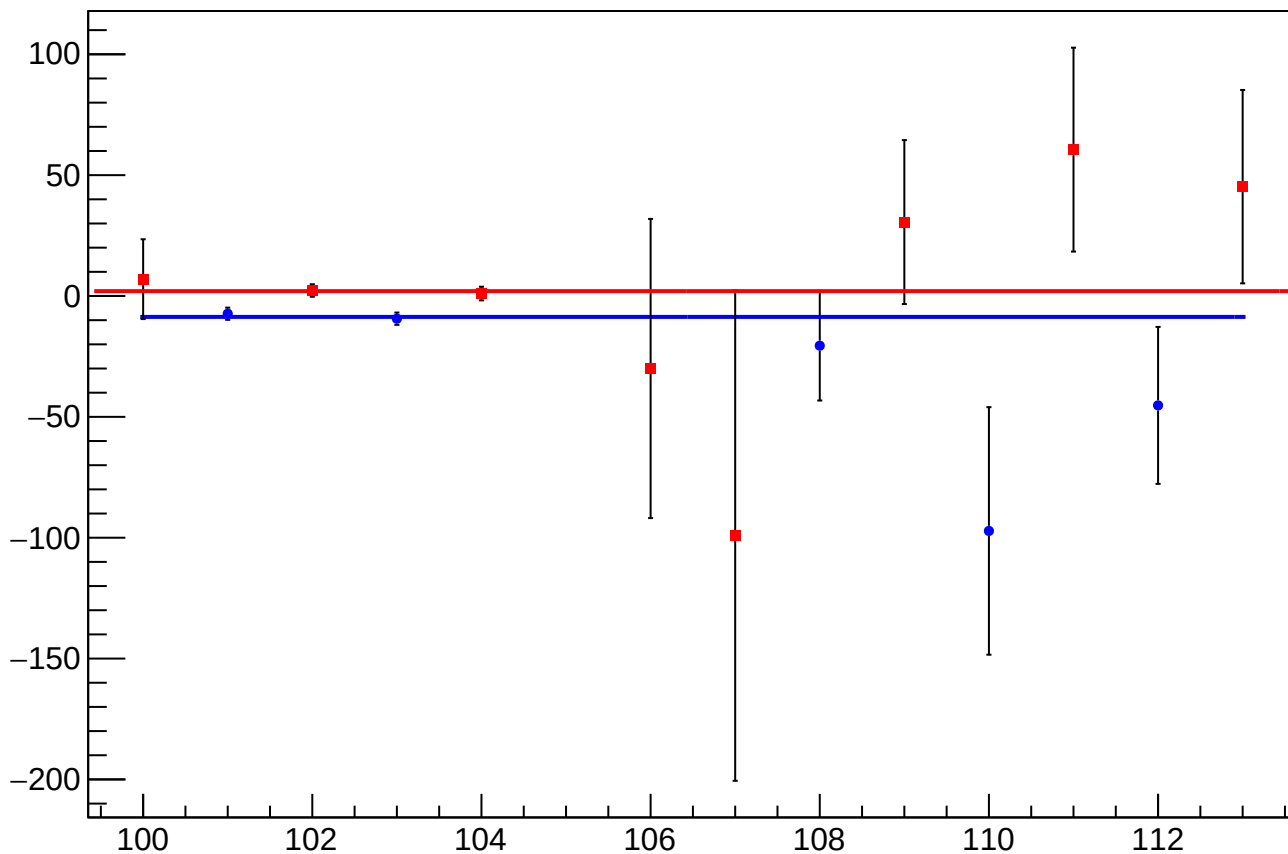
Right Out: 3451.539+/-1.932  $\chi^2/\text{NDF}$ : 3003104.8/7

All: 3309.724+/-1.331  $\chi^2/\text{NDF}$ : 4462474.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l03Y\_mean vs Slug



Right In: -8.647+/-1.780  $\chi^2/\text{NDF}$ : 4.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.017+/-1.882  $\chi^2/\text{NDF}$ : 5.3/7

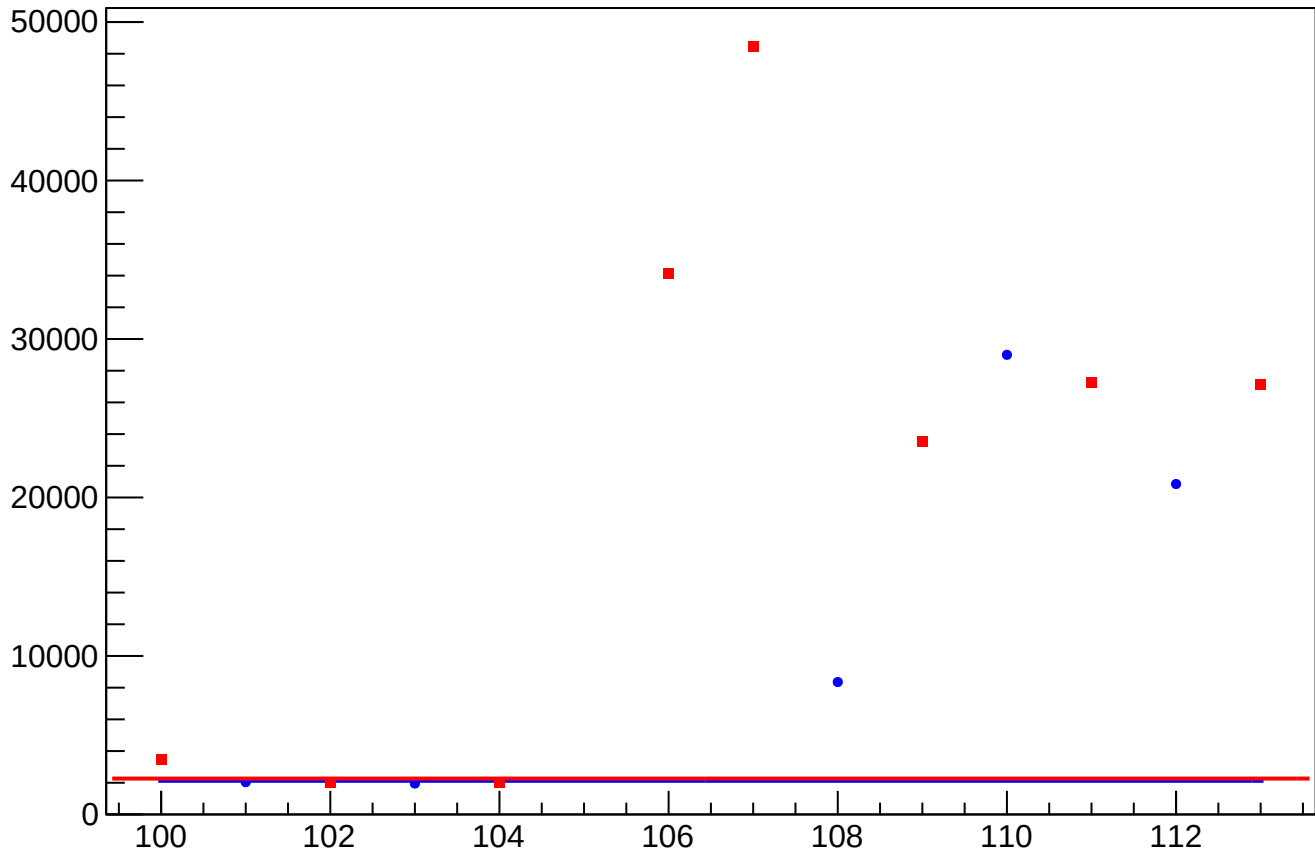
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.612+/-1.293  $\chi^2/\text{NDF}$ : 27.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l03Y\_rms vs Slug



Right In: 2123.492+/-1.259  $\chi^2/\text{NDF}$ : 1378598.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2264.518+/-1.331  $\chi^2/\text{NDF}$ : 3250399.4/7

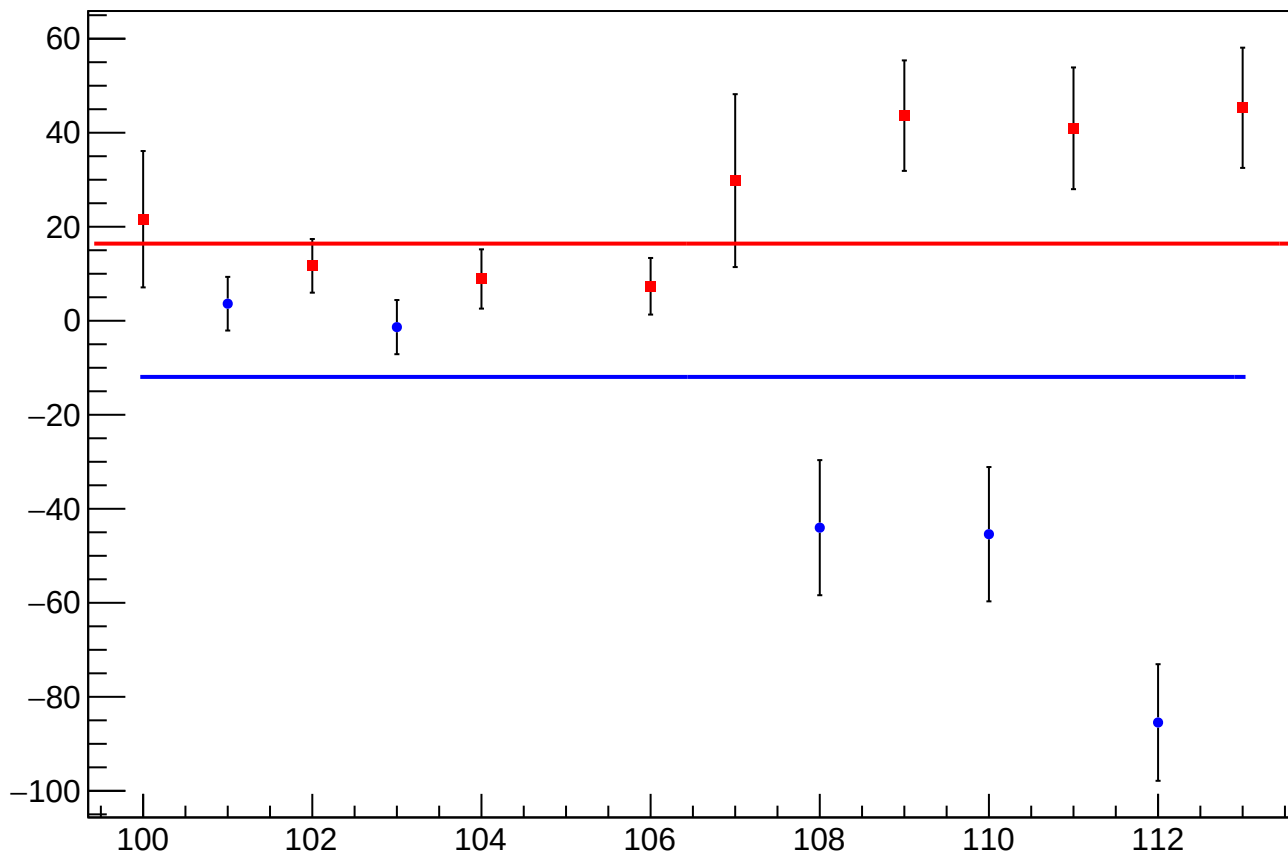
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2190.075+/-0.915  $\chi^2/\text{NDF}$ : 4634924.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l04X\_mean vs Slug



Right In: -11.946 $\pm$ 3.602  $\chi^2$ /NDF: 56.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.412 $\pm$ 3.009  $\chi^2$ /NDF: 19.1/7

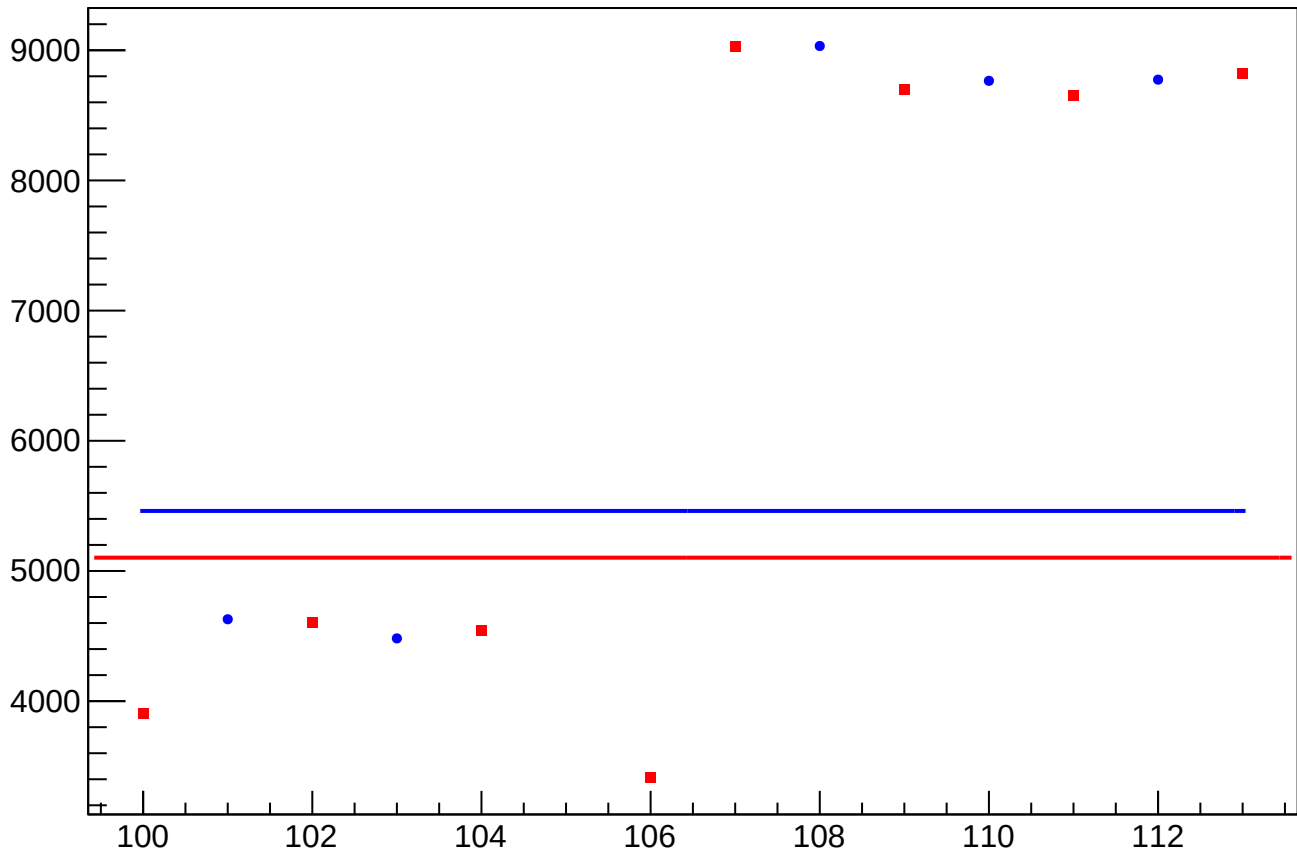
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.757 $\pm$ 2.309  $\chi^2$ /NDF: 112.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l04X\_rms vs Slug



Right In: 5461.043+/-2.547  $\chi^2/\text{NDF}$ : 473491.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5102.166+/-2.128  $\chi^2/\text{NDF}$ : 799997.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

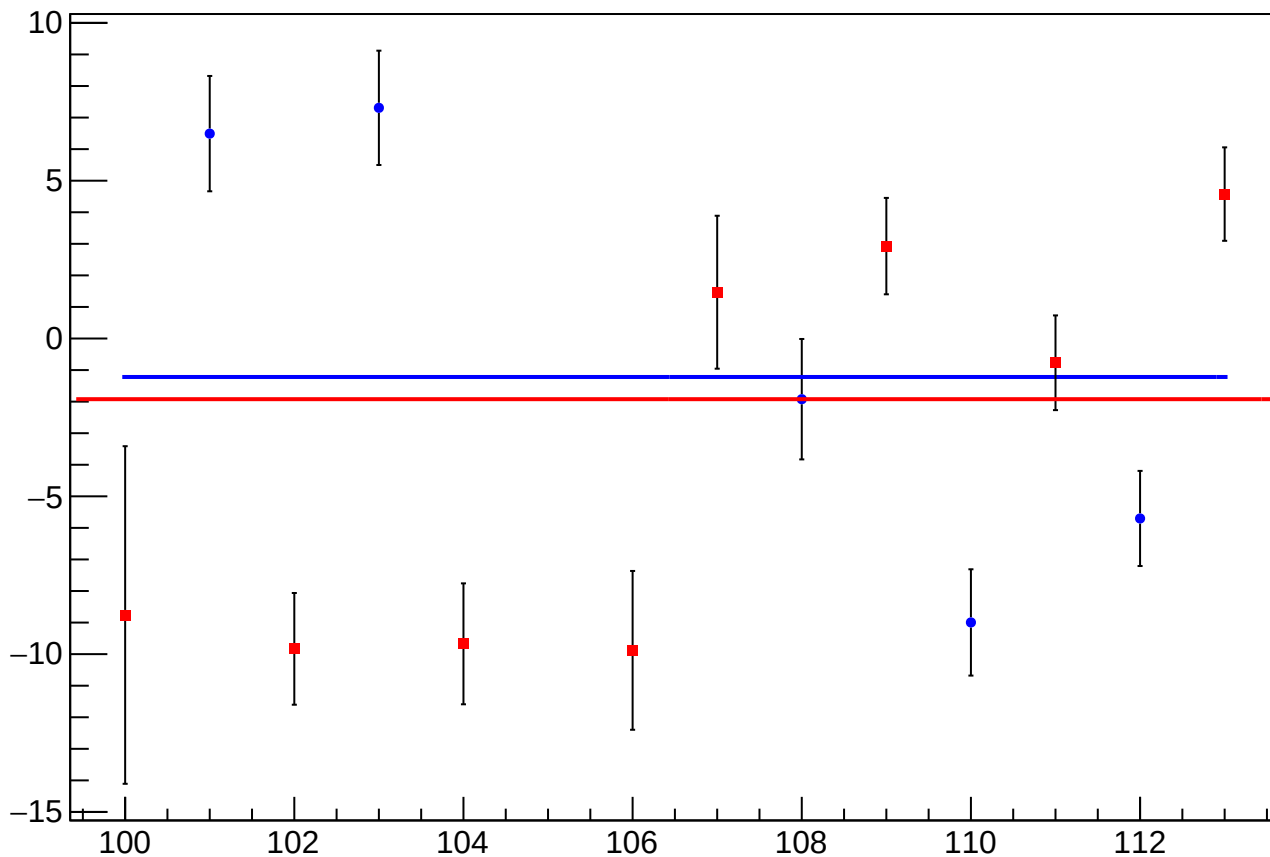
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5249.659+/-1.633  $\chi^2/\text{NDF}$ : 1285180.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm0l04Y\_mean vs Slug



Right In:  $-1.219 \pm 0.773$   $\chi^2/\text{NDF}: 70.3/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-1.922 \pm 0.662$   $\chi^2/\text{NDF}: 79.9/7$

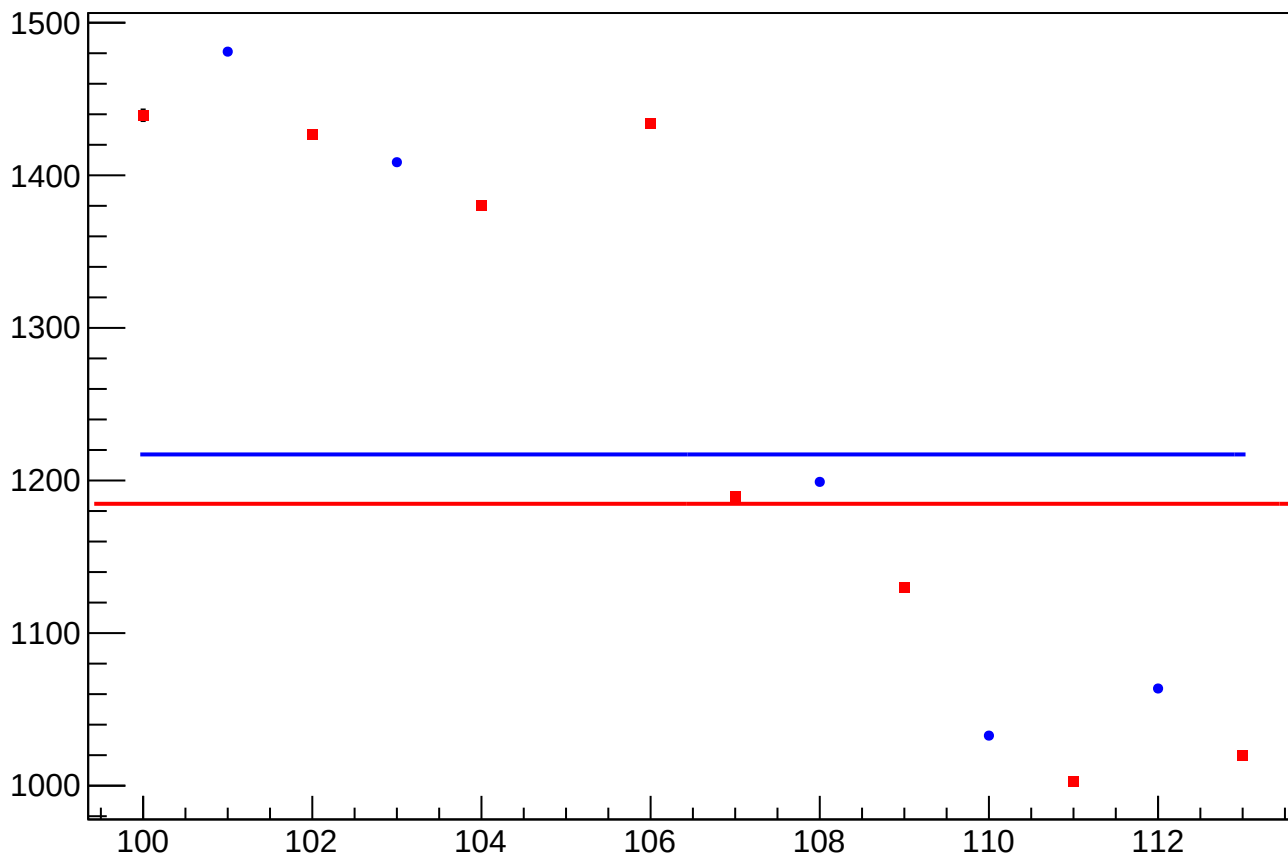
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-1.625 \pm 0.503$   $\chi^2/\text{NDF}: 150.6/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# diff\_bpm0l04Y\_rms vs Slug



Right In: 1217.083+/-0.547  $\chi^2/\text{NDF}$ : 108951.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1184.733+/-0.468  $\chi^2/\text{NDF}$ : 139030.5/7

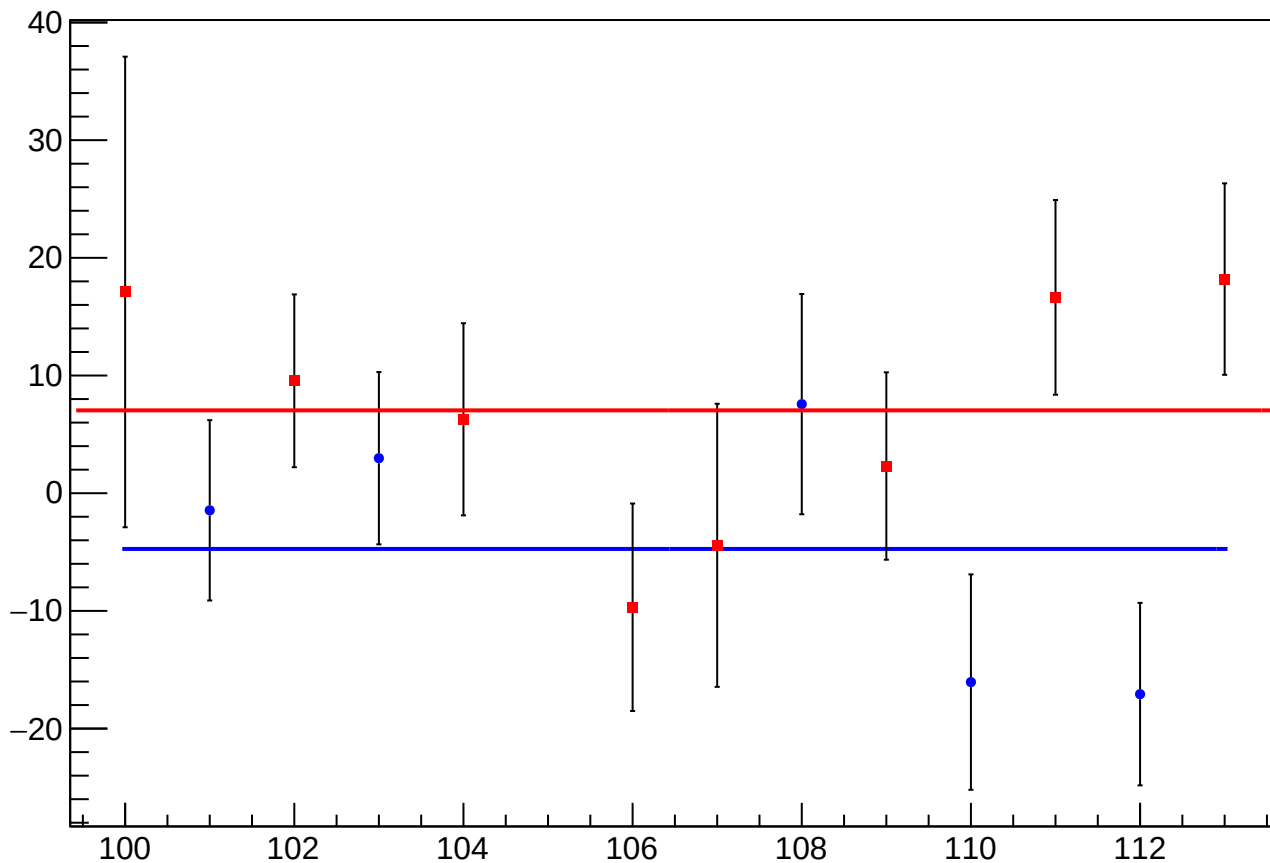
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1198.406+/-0.355  $\chi^2/\text{NDF}$ : 250002.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l05X\_mean vs Slug



Right In: -4.736 $\pm$ 3.635  $\chi^2$ /NDF: 7.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7.040 $\pm$ 3.141  $\chi^2$ /NDF: 8.5/7

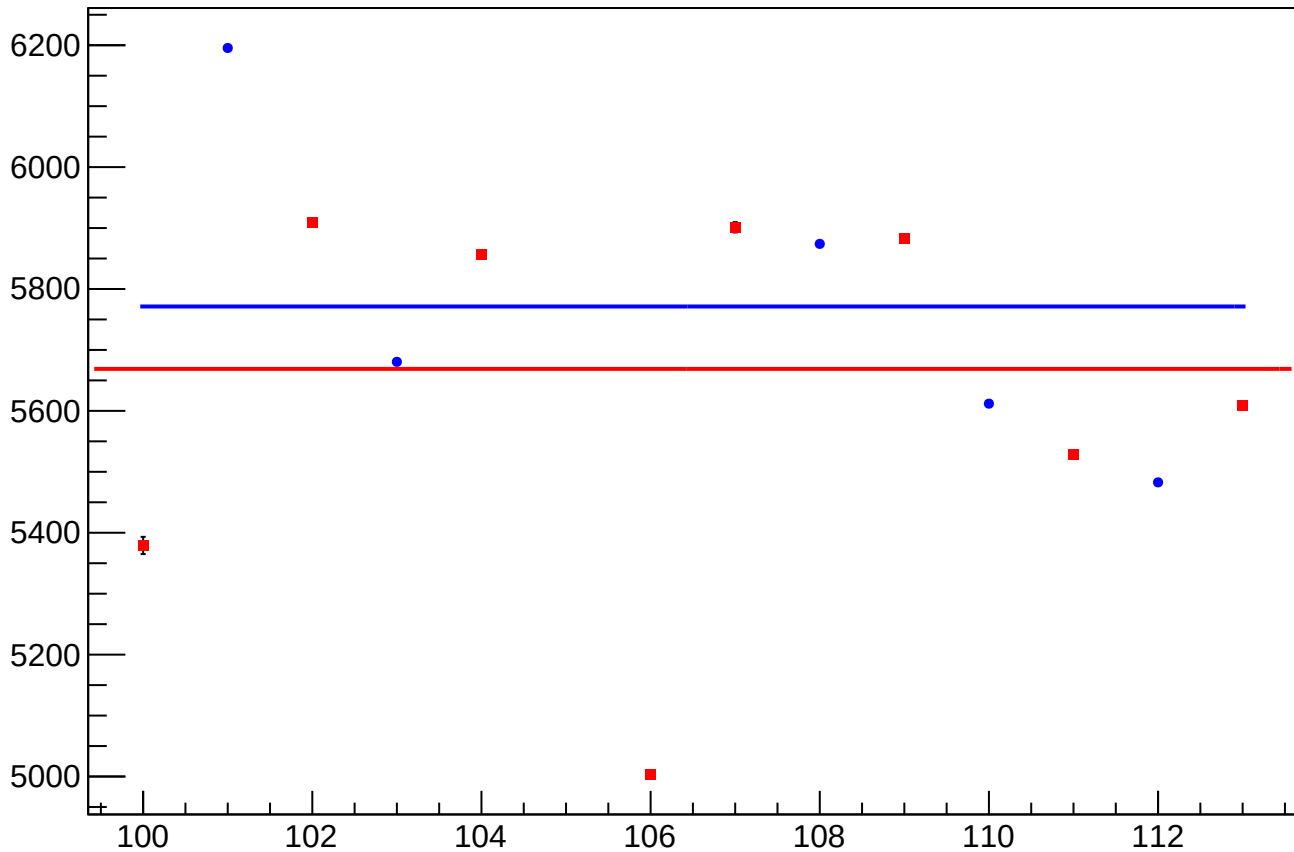
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.006 $\pm$ 2.377  $\chi^2$ /NDF: 21.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l05X\_rms vs Slug



Right In: 5771.286 $\pm$ 2.570  $\chi^2$ /NDF: 10056.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5668.917 $\pm$ 2.221  $\chi^2$ /NDF: 17880.3/7

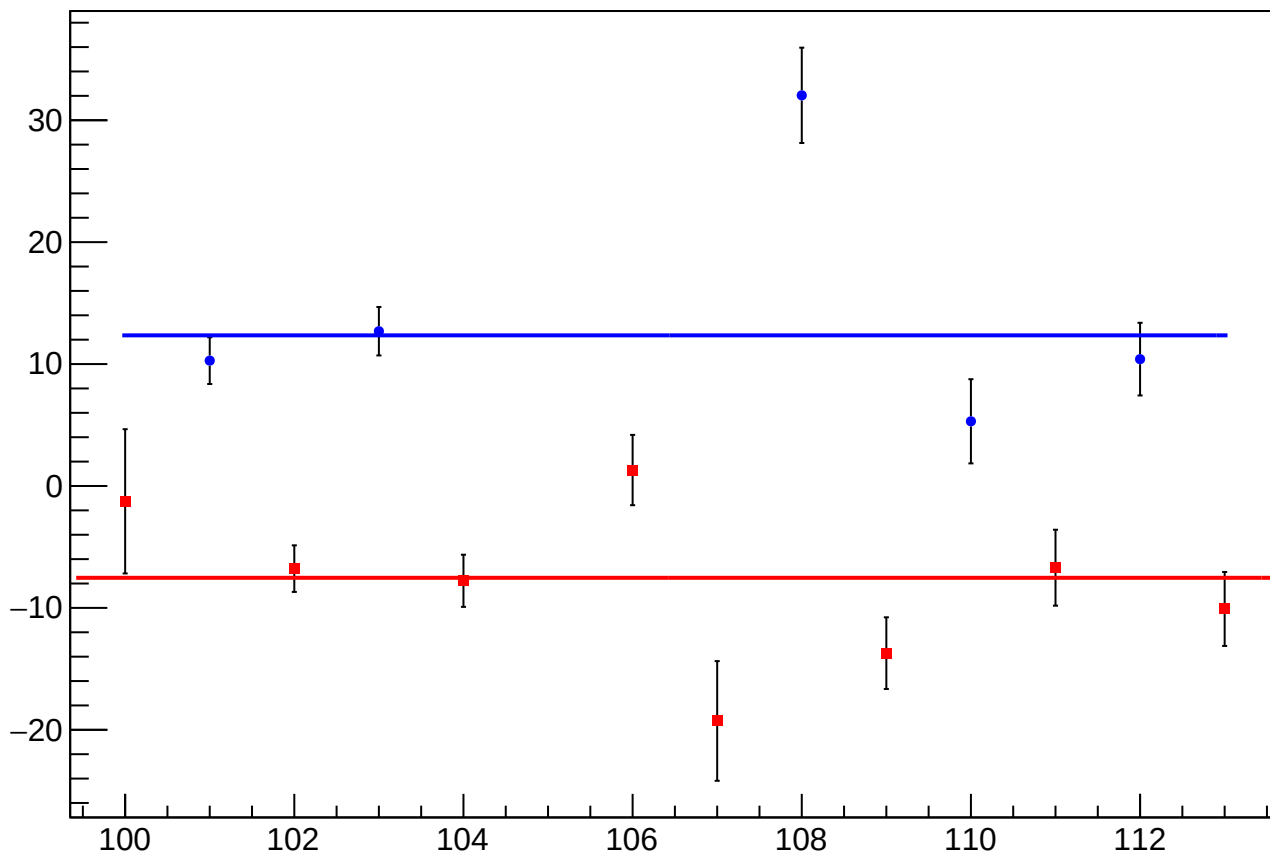
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5712.679 $\pm$ 1.681  $\chi^2$ /NDF: 28845.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l05Y\_mean vs Slug



Right In: 12.355+/-1.127  $\chi^2/\text{NDF}$ : 31.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7.531+/-0.995  $\chi^2/\text{NDF}$ : 21.6/7

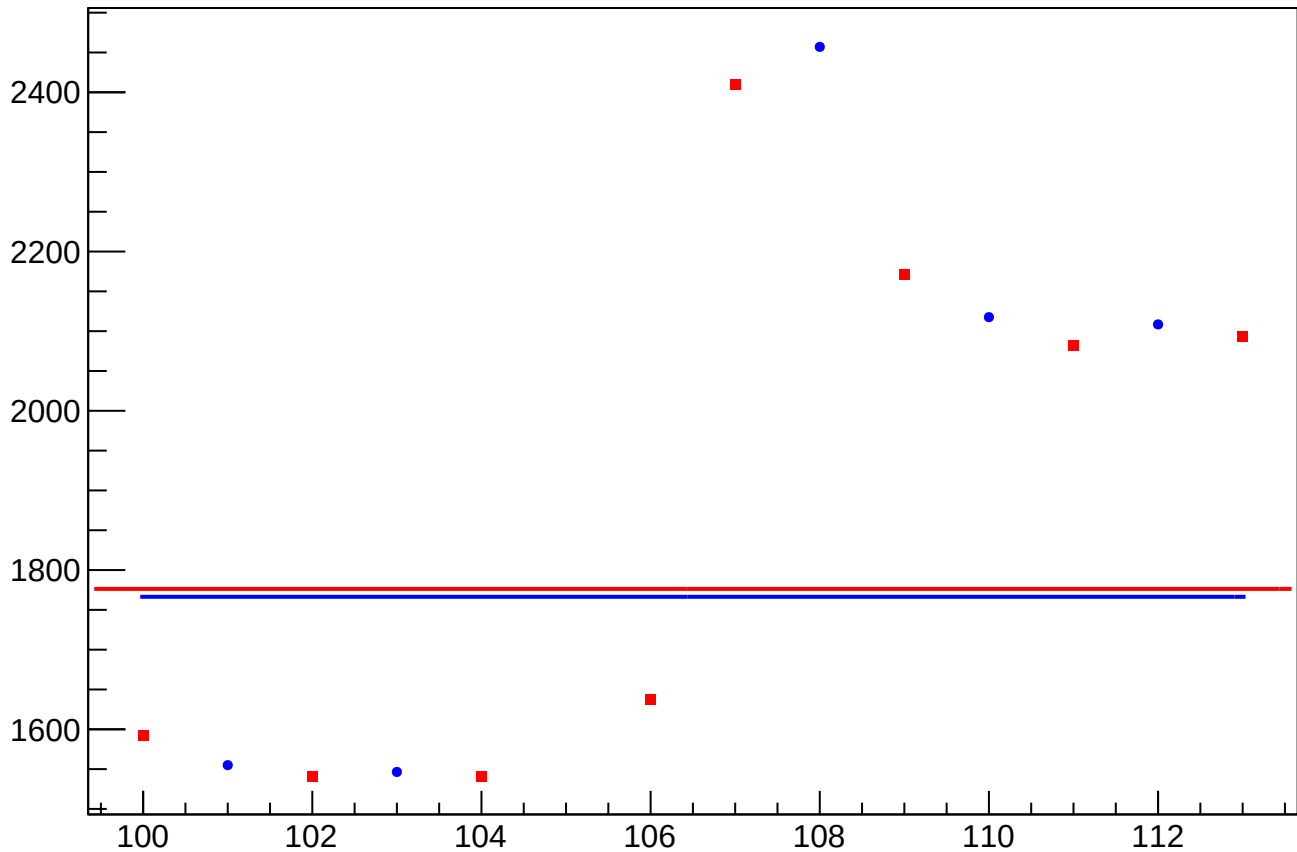
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.177+/-0.746  $\chi^2/\text{NDF}$ : 227.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l05Y\_rms vs Slug



Right In: 1766.408+/-0.797  $\chi^2/\text{NDF}$ : 158291.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1776.332+/-0.704  $\chi^2/\text{NDF}$ : 171833.3/7

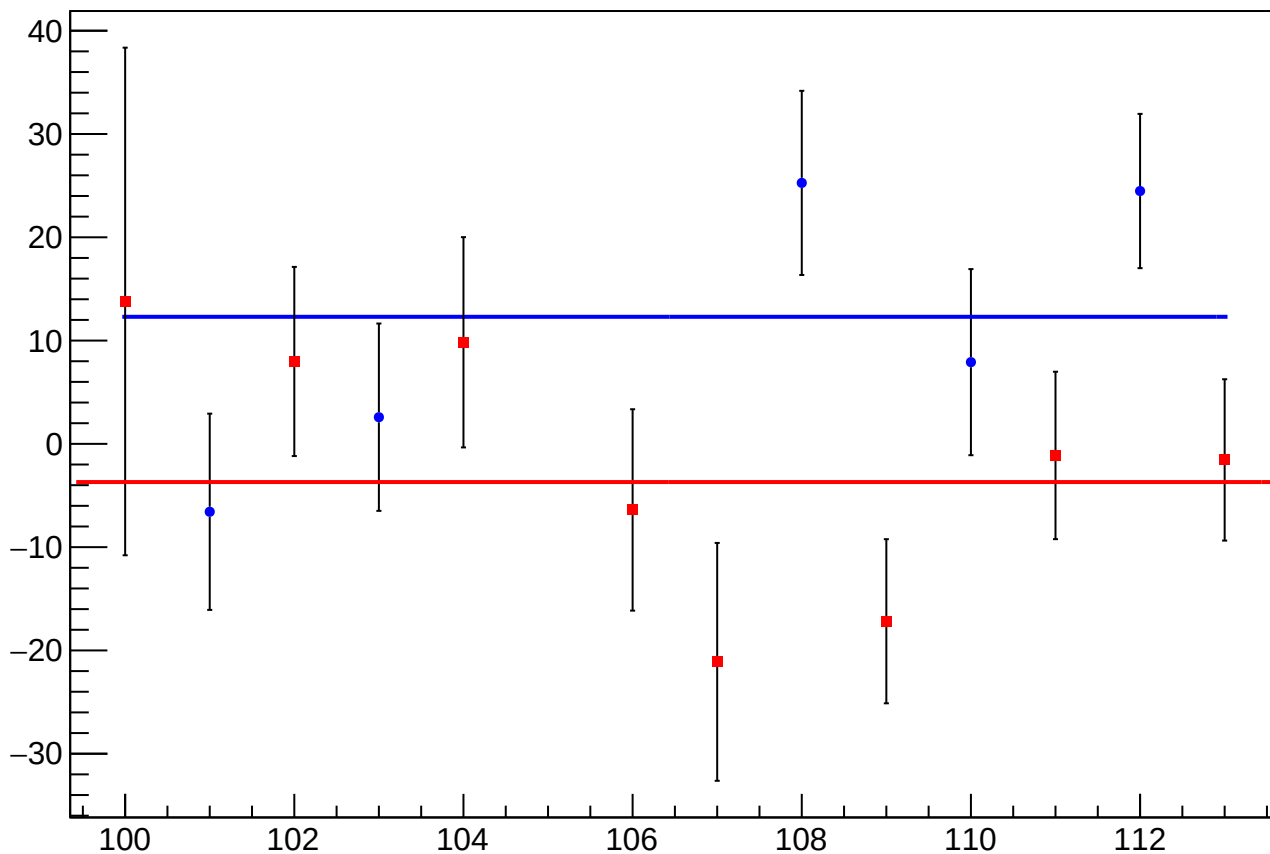
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1771.986+/-0.527  $\chi^2/\text{NDF}$ : 330211.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l06X\_mean vs Slug



Right In: 12.303+/-3.890  $\chi^2/\text{NDF}$ : 10.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.697+/-3.357  $\chi^2/\text{NDF}$ : 9.3/7

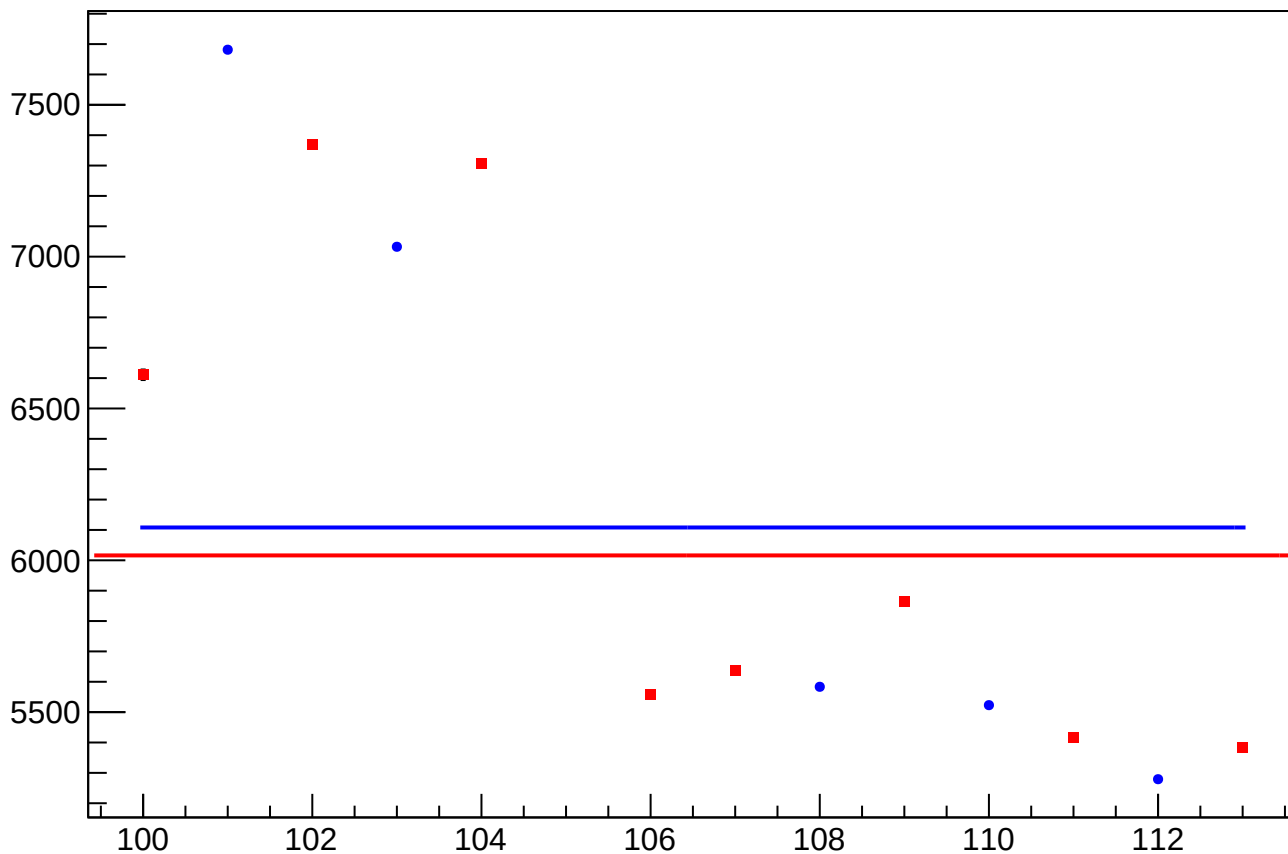
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.131+/-2.541  $\chi^2/\text{NDF}$ : 29.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l06X\_rms vs Slug



Right In: 6108.112+/-2.751  $\chi^2/\text{NDF}$ : 115641.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6016.107+/-2.374  $\chi^2/\text{NDF}$ : 108341.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

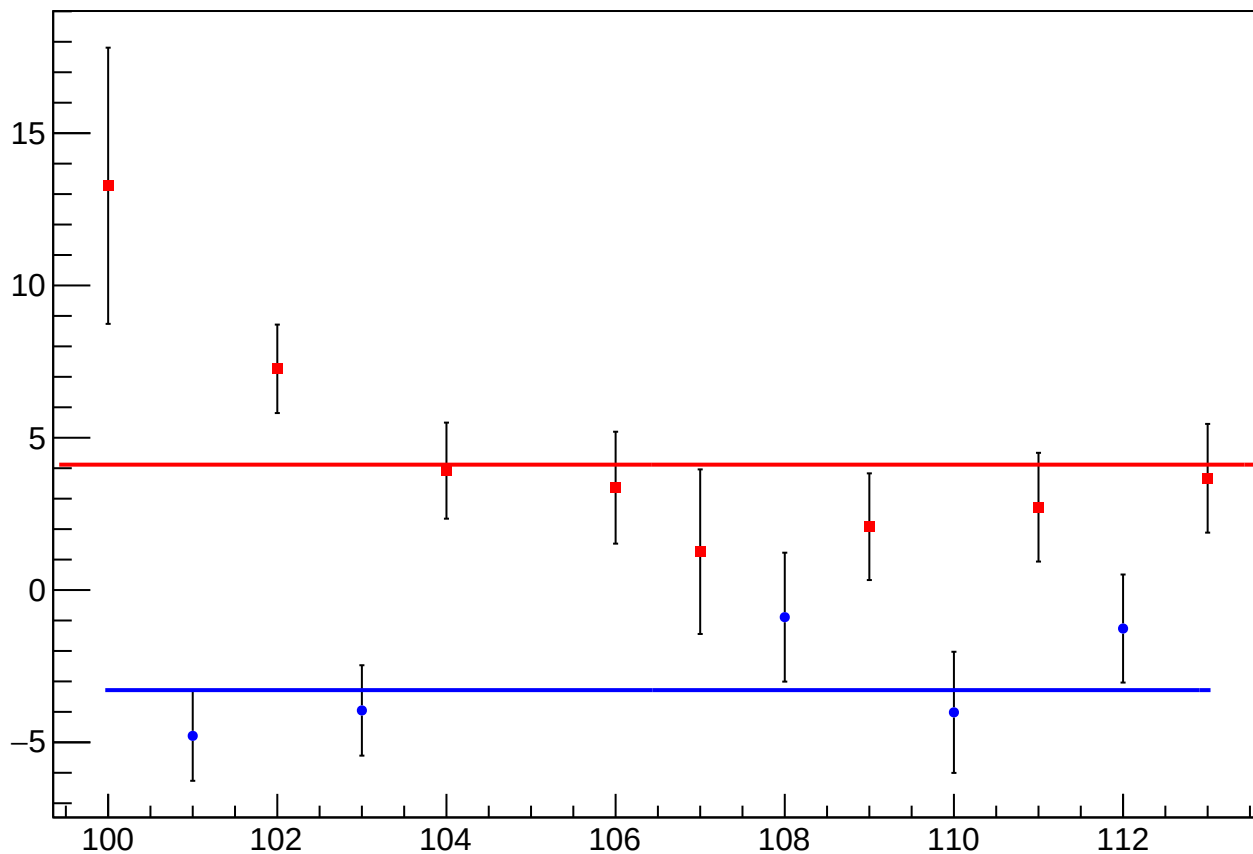
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6055.370+/-1.797  $\chi^2/\text{NDF}$ : 224624.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm0l06Y\_mean vs Slug



Right In:  $-3.286 \pm 0.765$   $\chi^2/\text{NDF}$ : 4.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $4.117 \pm 0.658$   $\chi^2/\text{NDF}$ : 12.1/7

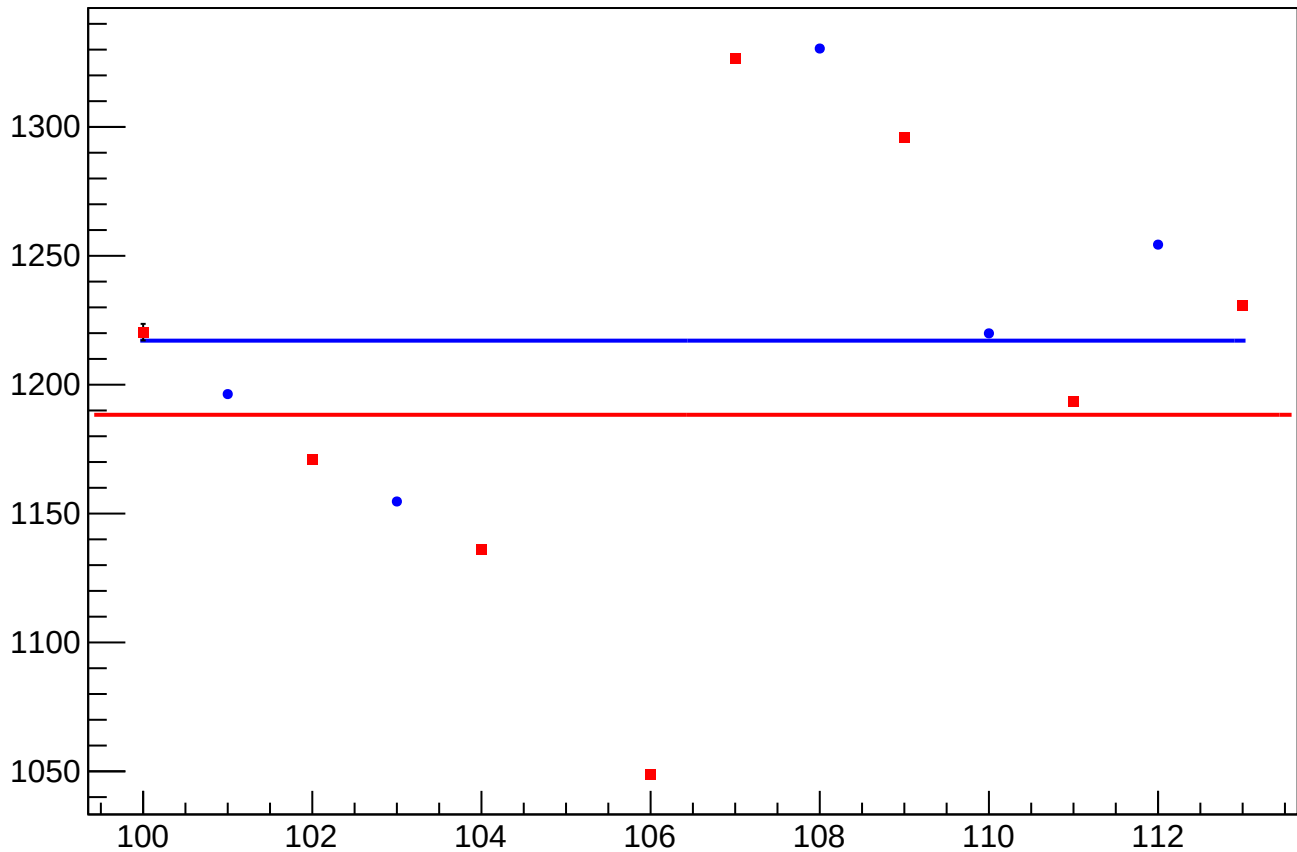
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.972 \pm 0.499$   $\chi^2/\text{NDF}$ : 69.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l06Y\_rms vs Slug



Right In: 1217.089 $\pm$ 0.541  $\chi^2$ /NDF: 10552.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1188.325 $\pm$ 0.465  $\chi^2$ /NDF: 28082.4/7

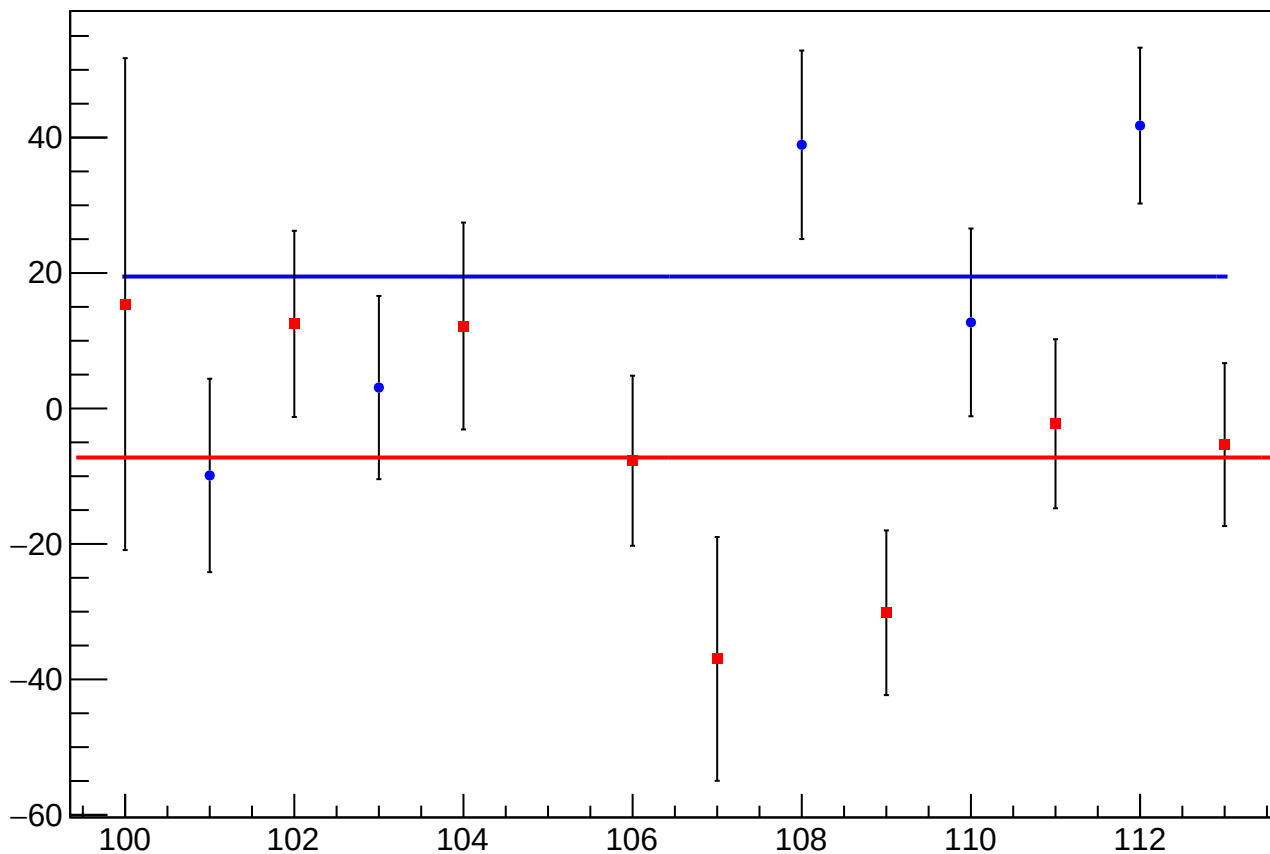
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1200.545 $\pm$ 0.353  $\chi^2$ /NDF: 40259.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l07X\_mean vs Slug



Right In: 19.480 $\pm$ 5.945  $\chi^2$ /NDF: 11.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -7.236 $\pm$ 5.008  $\chi^2$ /NDF: 10.5/7

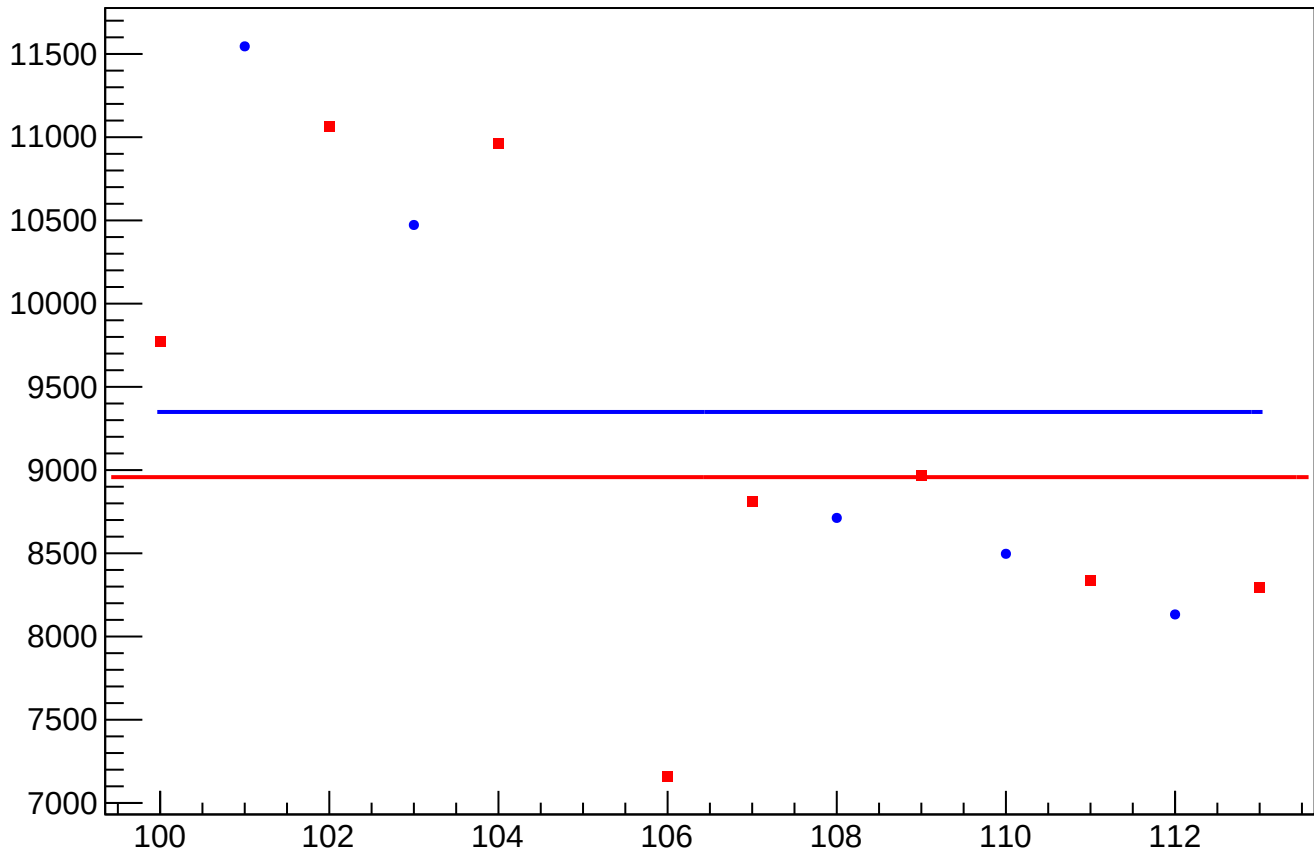
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.855 $\pm$ 3.830  $\chi^2$ /NDF: 34.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l07X\_rms vs Slug



Right In: 9349.190+/-4.203  $\chi^2/\text{NDF}$ : 95238.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8957.625+/-3.541  $\chi^2/\text{NDF}$ : 134446.6/7

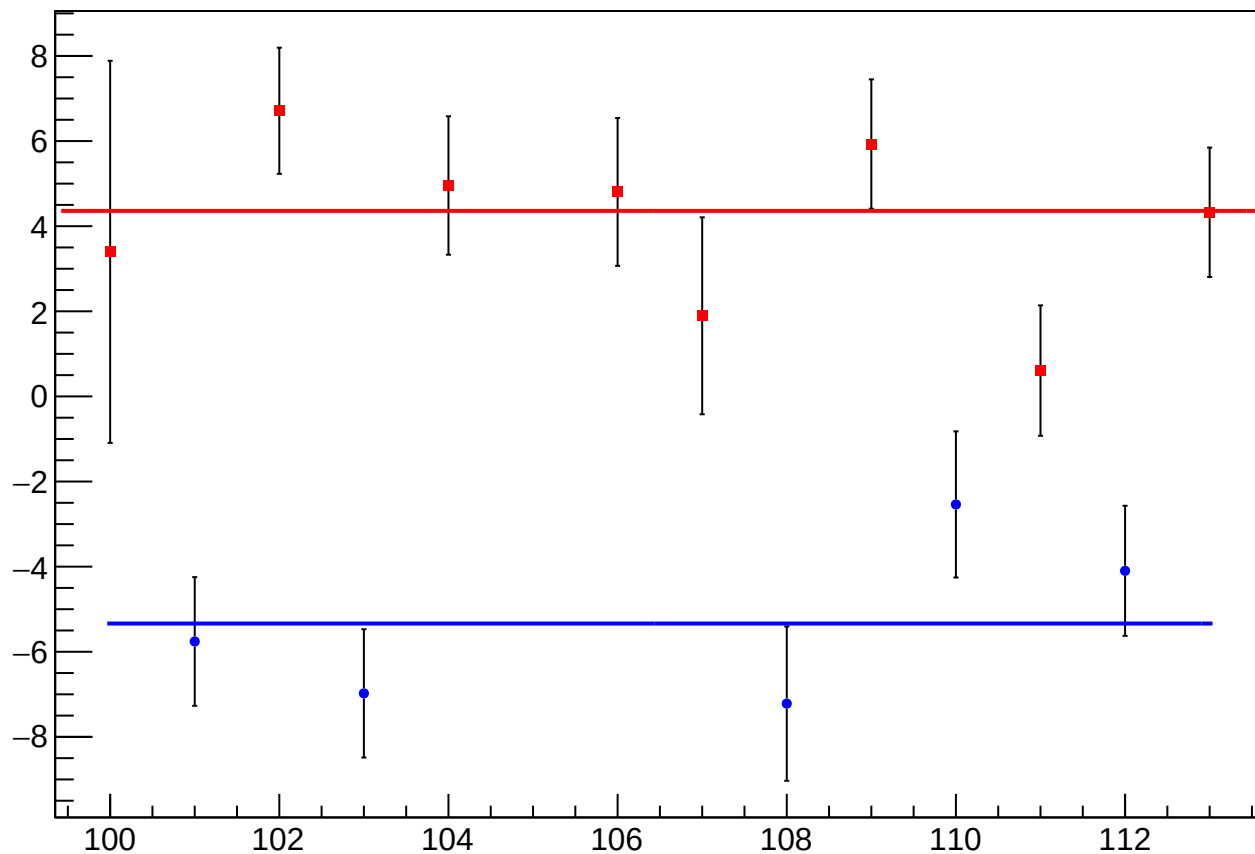
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9120.174+/-2.708  $\chi^2/\text{NDF}$ : 234760.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l07Y\_mean vs Slug



Right In: -5.336 $\pm$ 0.716  $\chi^2$ /NDF: 5.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.360 $\pm$ 0.609  $\chi^2$ /NDF: 11.0/7

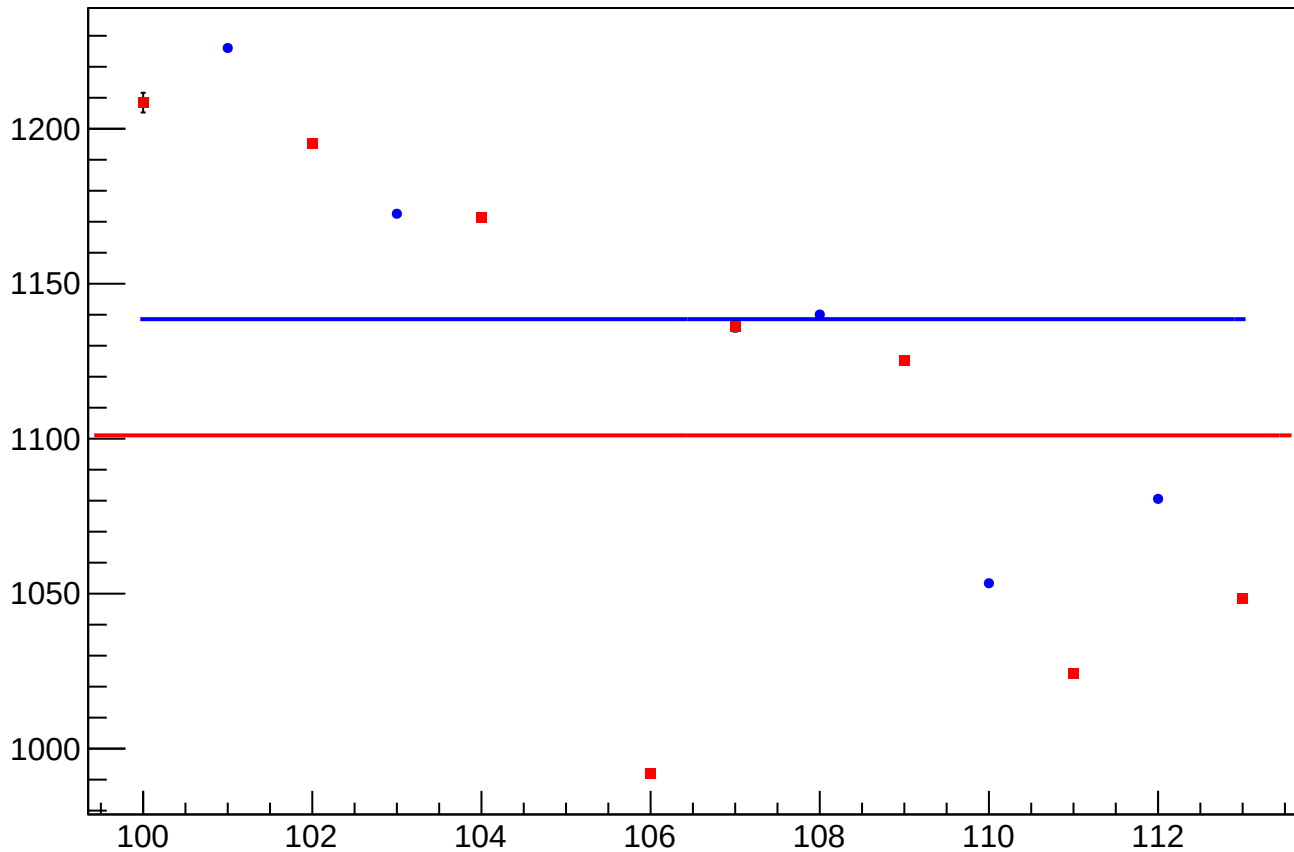
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.288 $\pm$ 0.464  $\chi^2$ /NDF: 122.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l07Y\_rms vs Slug



Right In: 1138.568 $\pm$ 0.507  $\chi^2$ /NDF: 15517.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1101.075 $\pm$ 0.431  $\chi^2$ /NDF: 29264.5/7

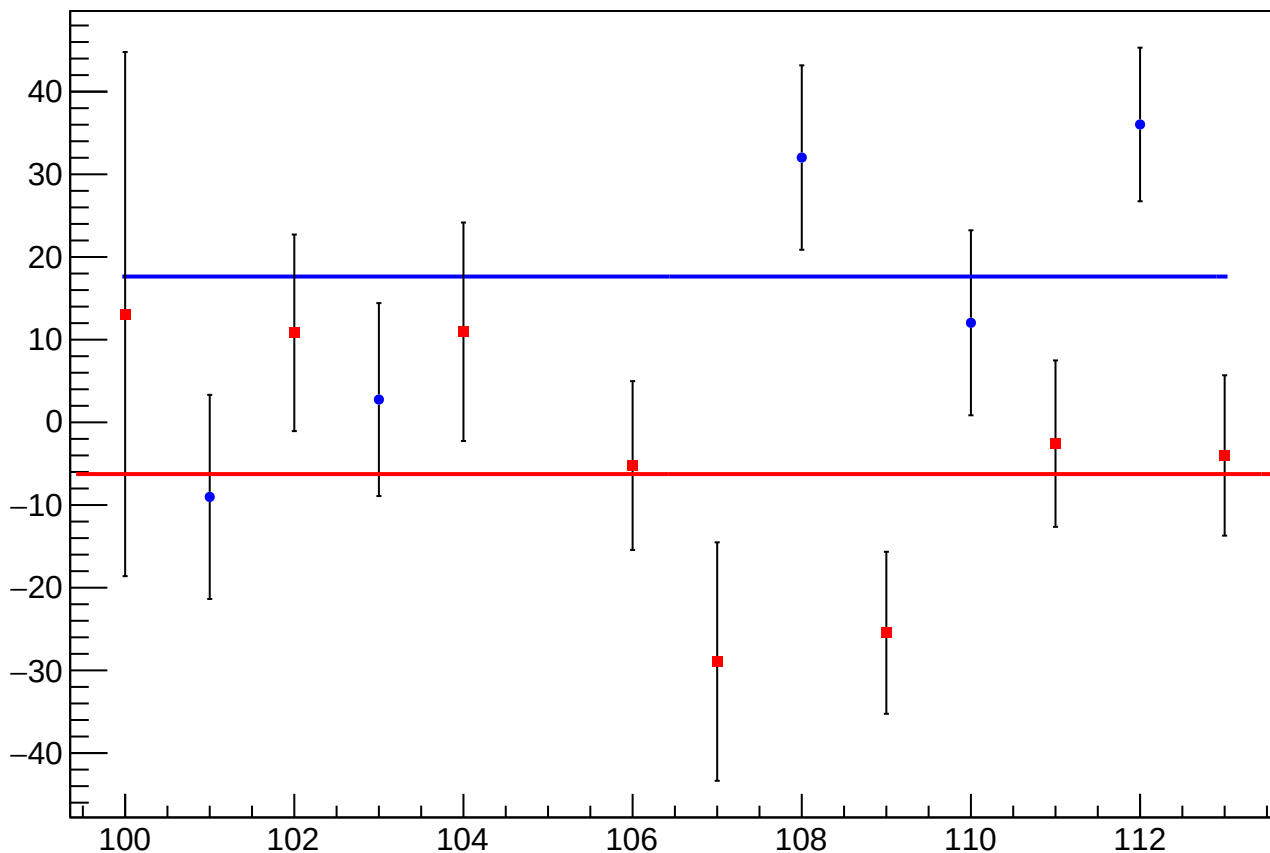
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1116.819 $\pm$ 0.328  $\chi^2$ /NDF: 47959.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l08X\_mean vs Slug



Right In: 17.636+/-4.907  $\chi^2/\text{NDF}$ : 12.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.257+/-4.113  $\chi^2/\text{NDF}$ : 10.6/7

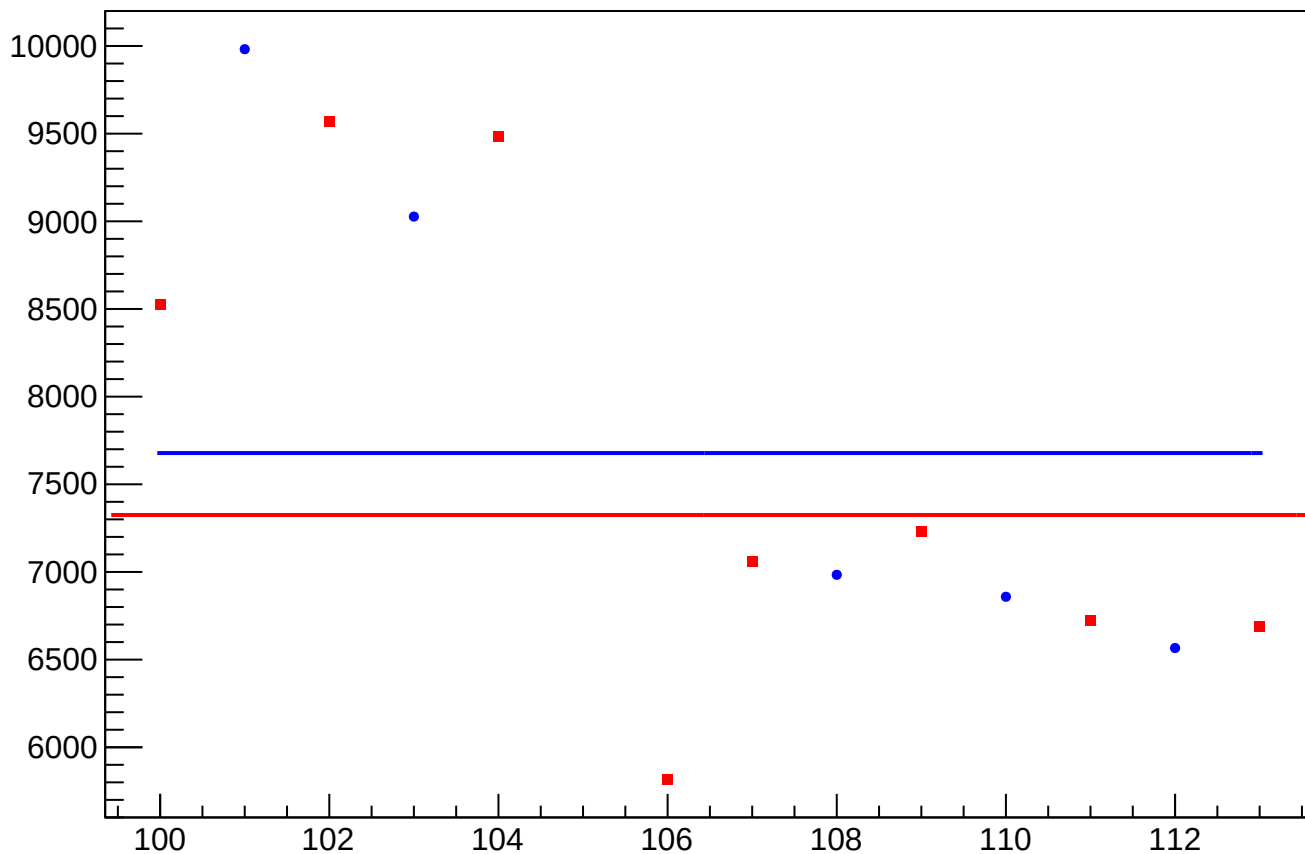
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.602+/-3.152  $\chi^2/\text{NDF}$ : 36.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l08X\_rms vs Slug



Right In: 7678.222+/-3.470  $\chi^2/\text{NDF}$ : 143530.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7324.971+/-2.908  $\chi^2/\text{NDF}$ : 187872.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

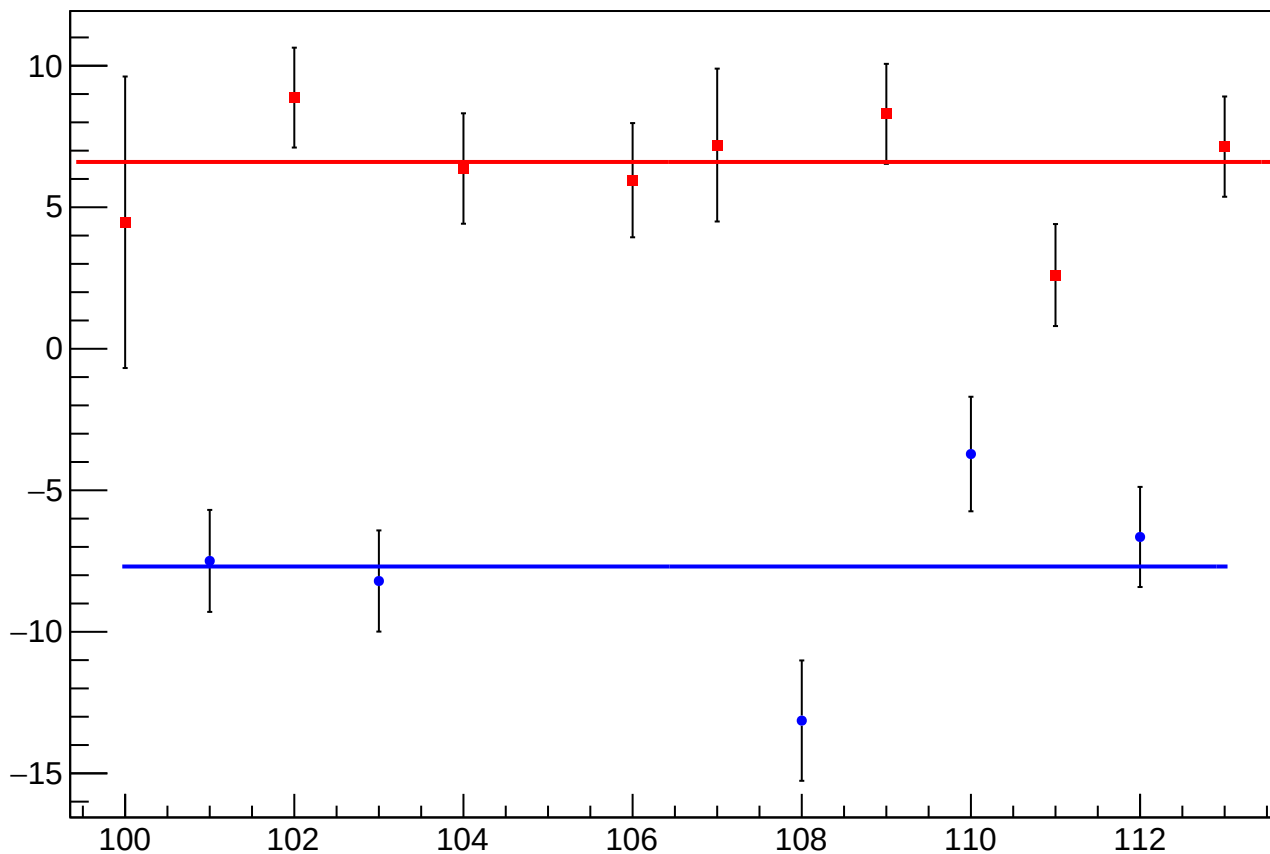
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7470.728+/-2.229  $\chi^2/\text{NDF}$ : 337490.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm0l08Y\_mean vs Slug



Right In: -7.692 $\pm$ 0.843  $\chi^2$ /NDF: 10.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6.600 $\pm$ 0.716  $\chi^2$ /NDF: 7.9/7

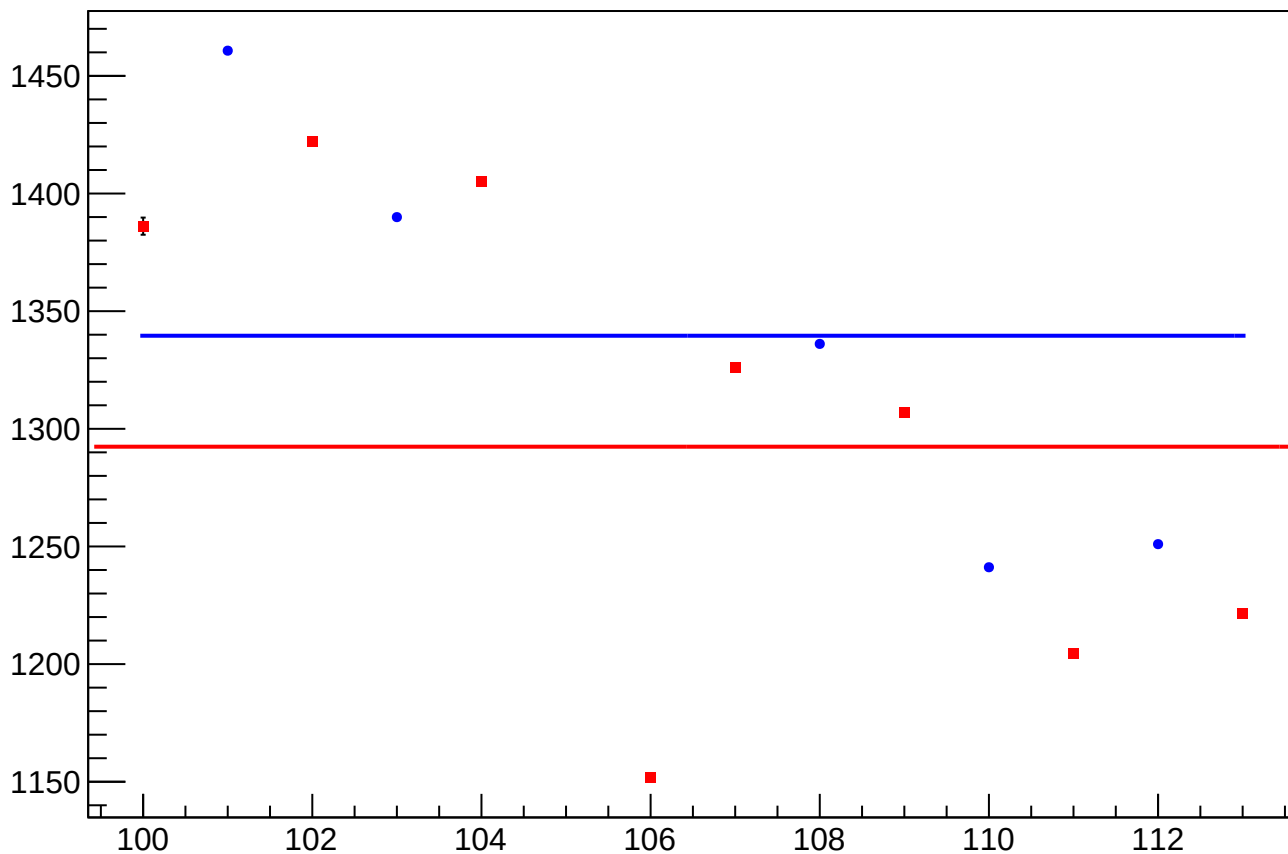
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.615 $\pm$ 0.546  $\chi^2$ /NDF: 185.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l08Y\_rms vs Slug



Right In: 1339.562 $\pm$ 0.596  $\chi^2$ /NDF: 20387.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1292.403 $\pm$ 0.506  $\chi^2$ /NDF: 36259.2/7

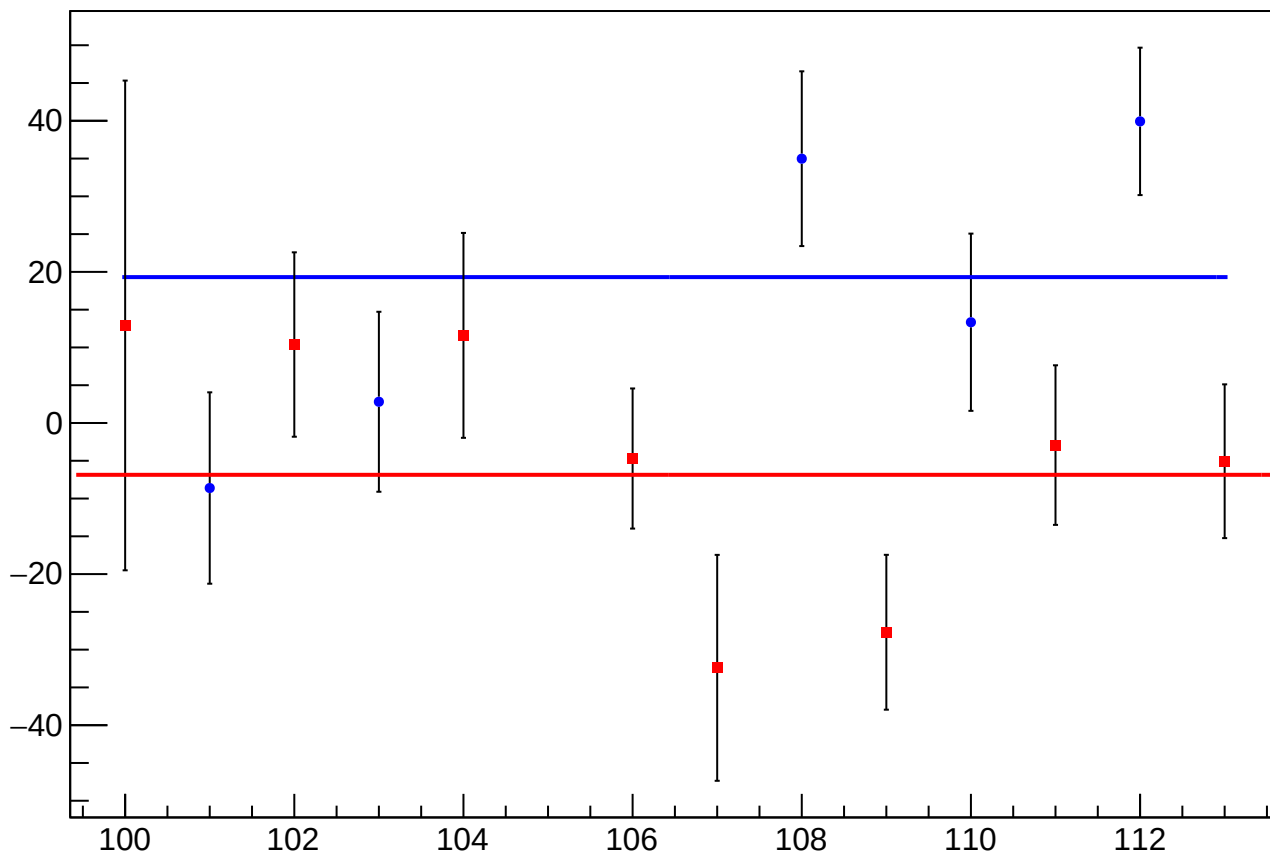
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1312.153 $\pm$ 0.386  $\chi^2$ /NDF: 60282.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l09X\_mean vs Slug



Right In: 19.309+/-5.094  $\chi^2/\text{NDF}$ : 13.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.860+/-4.176  $\chi^2/\text{NDF}$ : 11.5/7

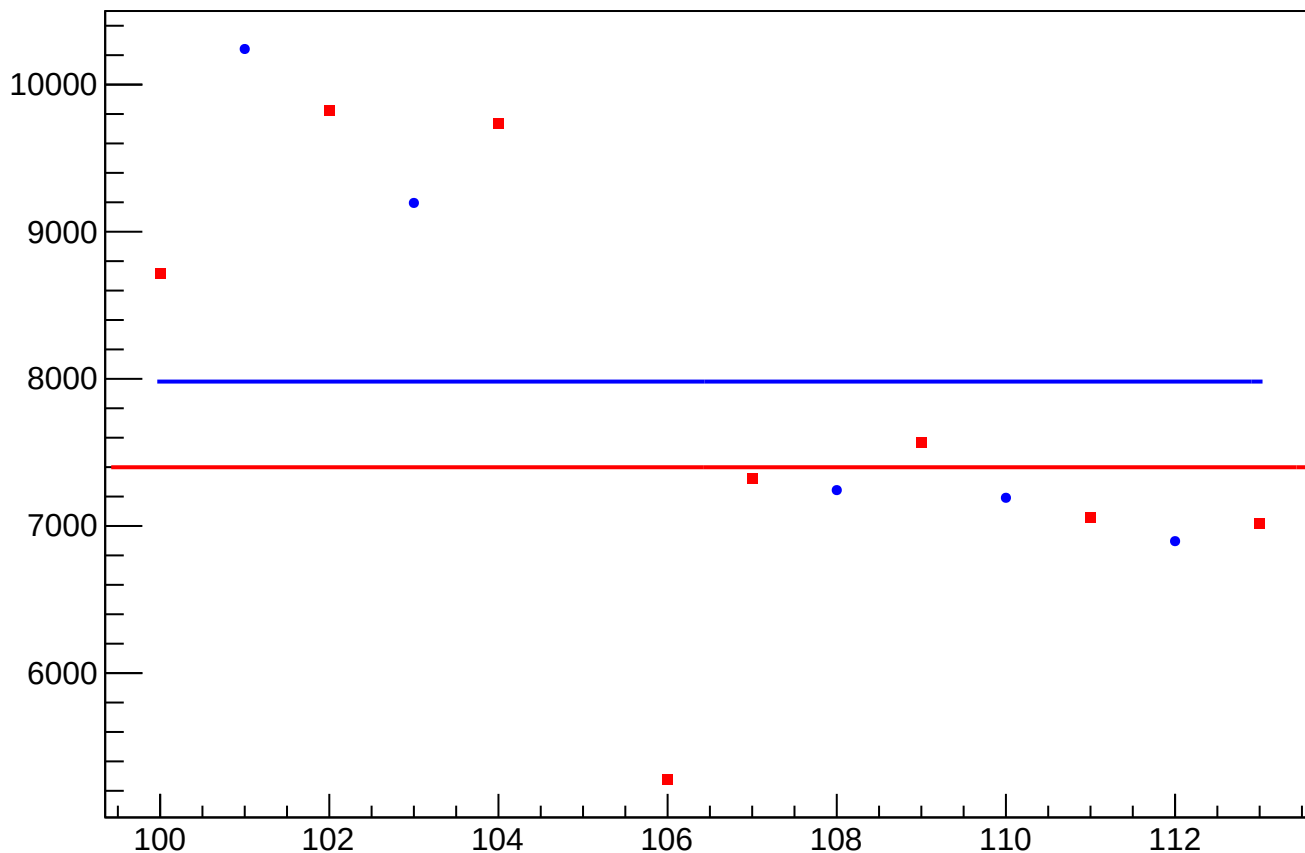
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.658+/-3.230  $\chi^2/\text{NDF}$ : 40.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l09X\_rms vs Slug



Right In: 7981.503+/-3.602  $\chi^2/\text{NDF}$ : 126413.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7399.173+/-2.953  $\chi^2/\text{NDF}$ : 251958.0/7

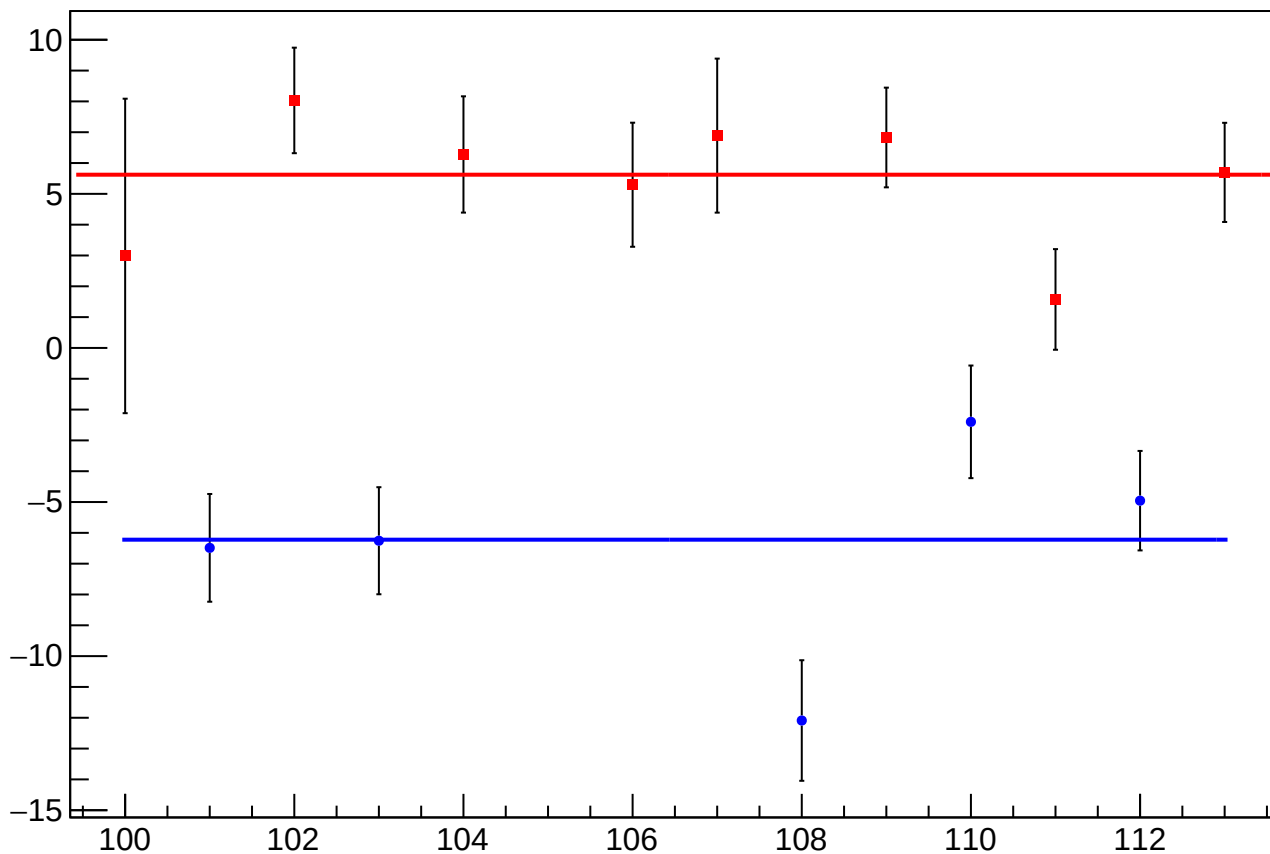
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7633.214+/-2.284  $\chi^2/\text{NDF}$ : 394001.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l09Y\_mean vs Slug



Right In:  $-6.222 \pm 0.790$   $\chi^2/\text{NDF}$ : 14.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $5.621 \pm 0.673$   $\chi^2/\text{NDF}$ : 9.4/7

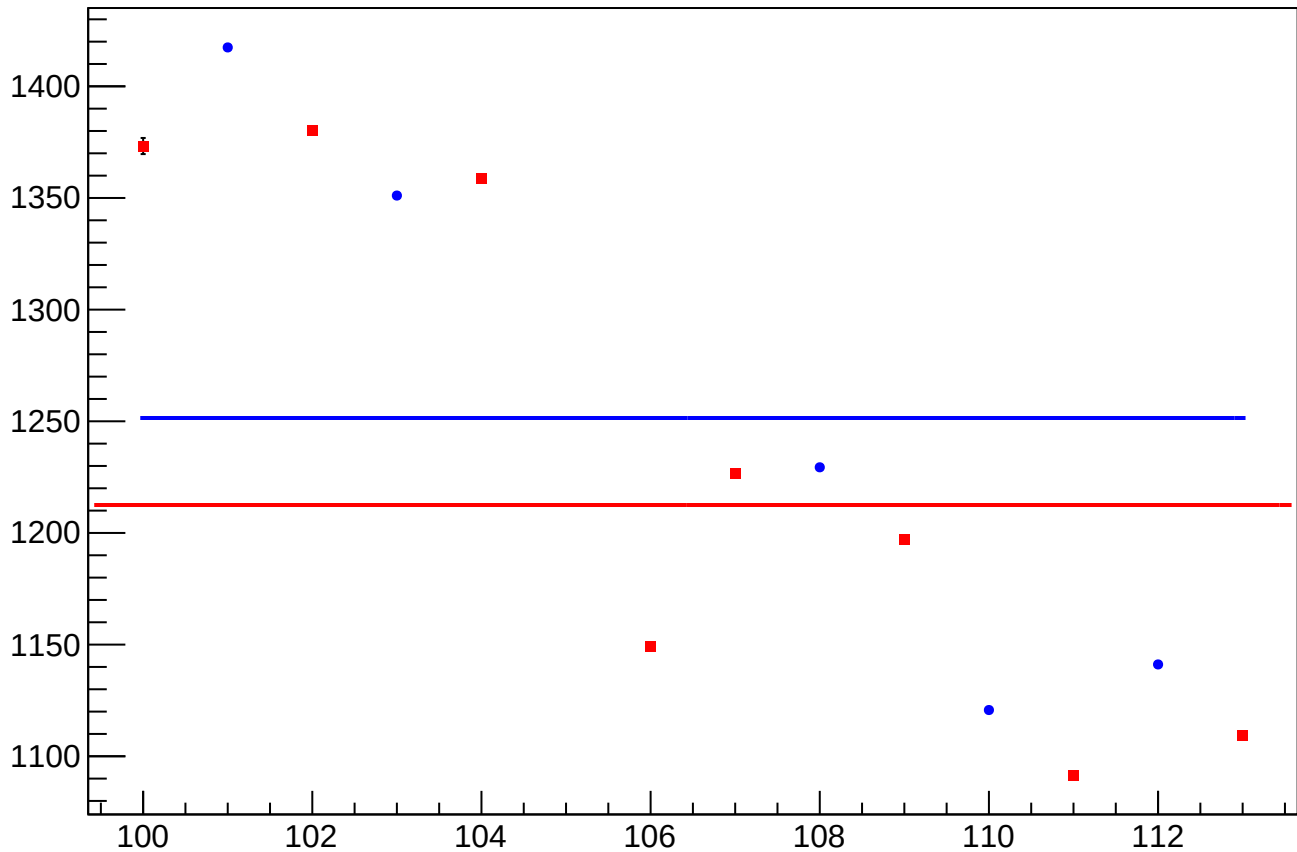
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.643 \pm 0.512$   $\chi^2/\text{NDF}$ : 153.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l09Y\_rms vs Slug



Right In: 1251.474 $\pm$ 0.558  $\chi^2$ /NDF: 44450.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1212.513 $\pm$ 0.476  $\chi^2$ /NDF: 54632.4/7

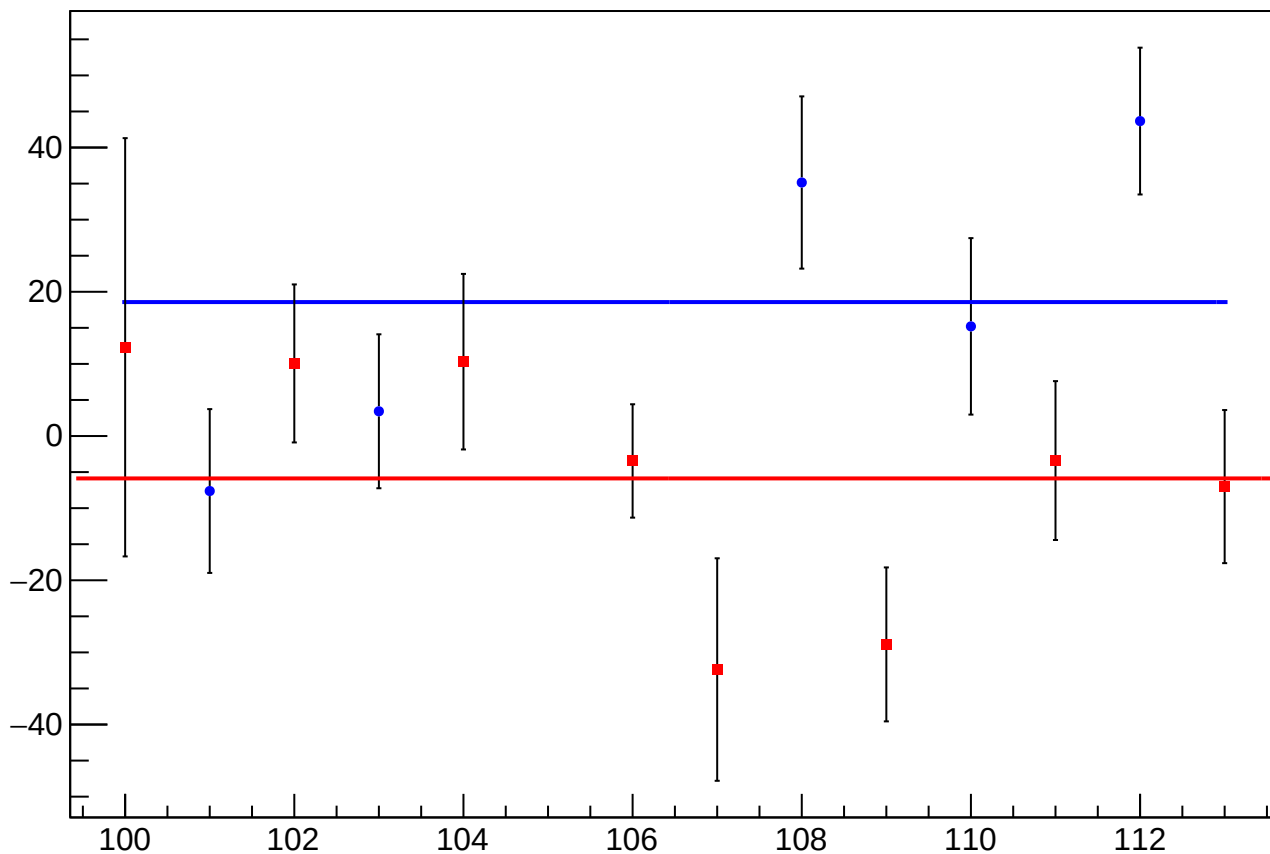
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1228.891 $\pm$ 0.362  $\chi^2$ /NDF: 101904.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l10X\_mean vs Slug



Right In: 18.574 $\pm$ 5.008  $\chi^2$ /NDF: 15.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -5.879 $\pm$ 3.998  $\chi^2$ /NDF: 12.0/7

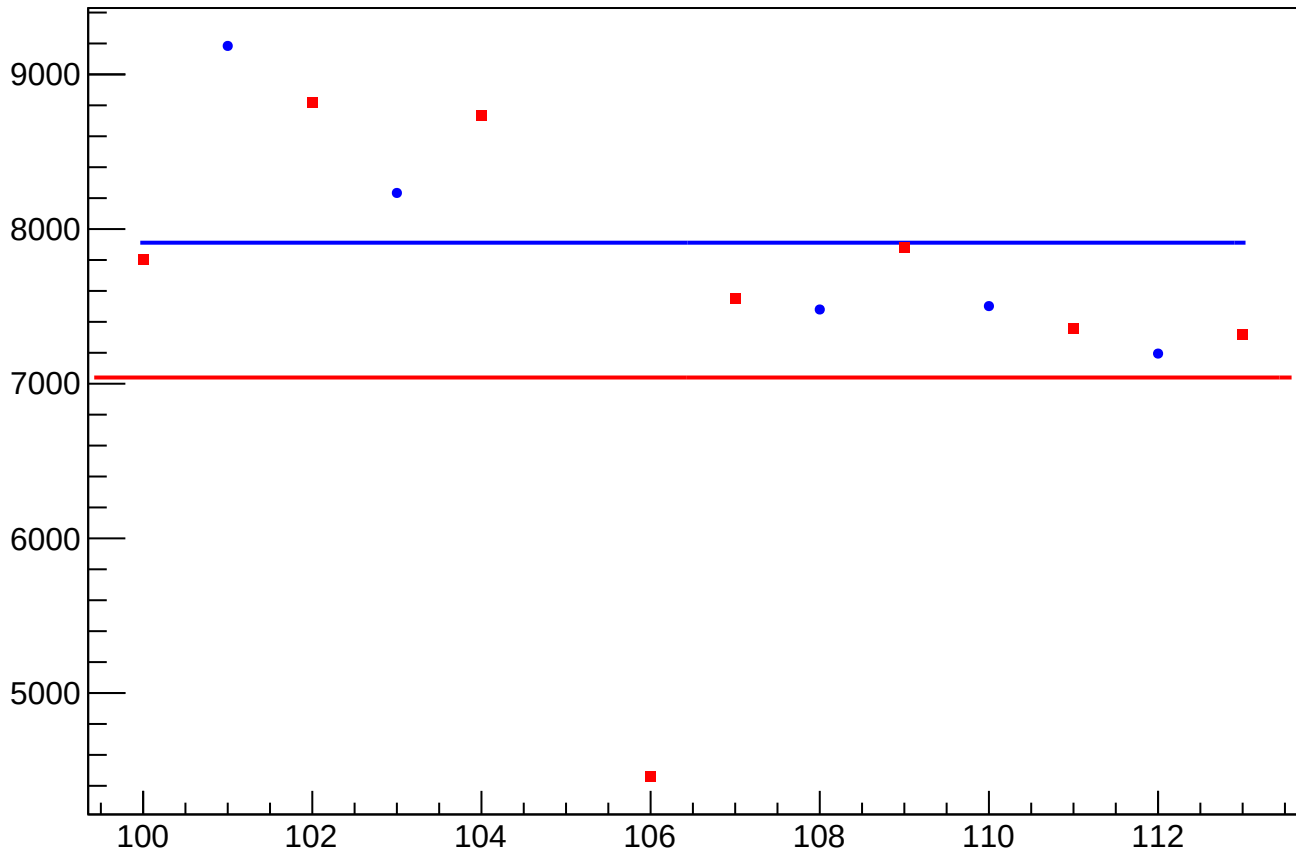
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.641 $\pm$ 3.124  $\chi^2$ /NDF: 42.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l10X\_rms vs Slug



Right In: 7911.872+/-3.541  $\chi^2/\text{NDF}$ : 41709.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7040.147+/-2.827  $\chi^2/\text{NDF}$ : 326492.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

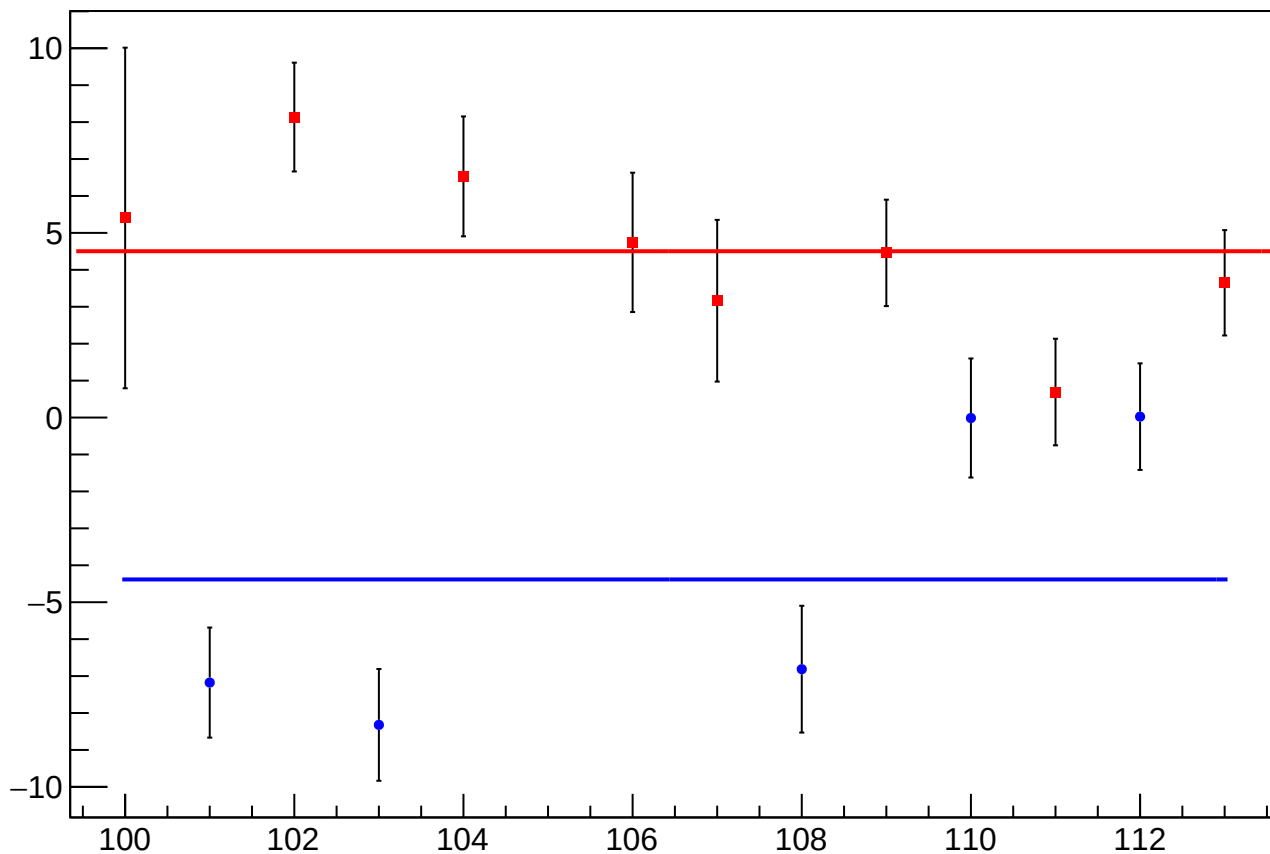
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7379.515+/-2.209  $\chi^2/\text{NDF}$ : 405217.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm0l10Y\_mean vs Slug



Right In: -4.384+/-0.692  $\chi^2/\text{NDF}$ : 29.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.503+/-0.594  $\chi^2/\text{NDF}$ : 15.4/7

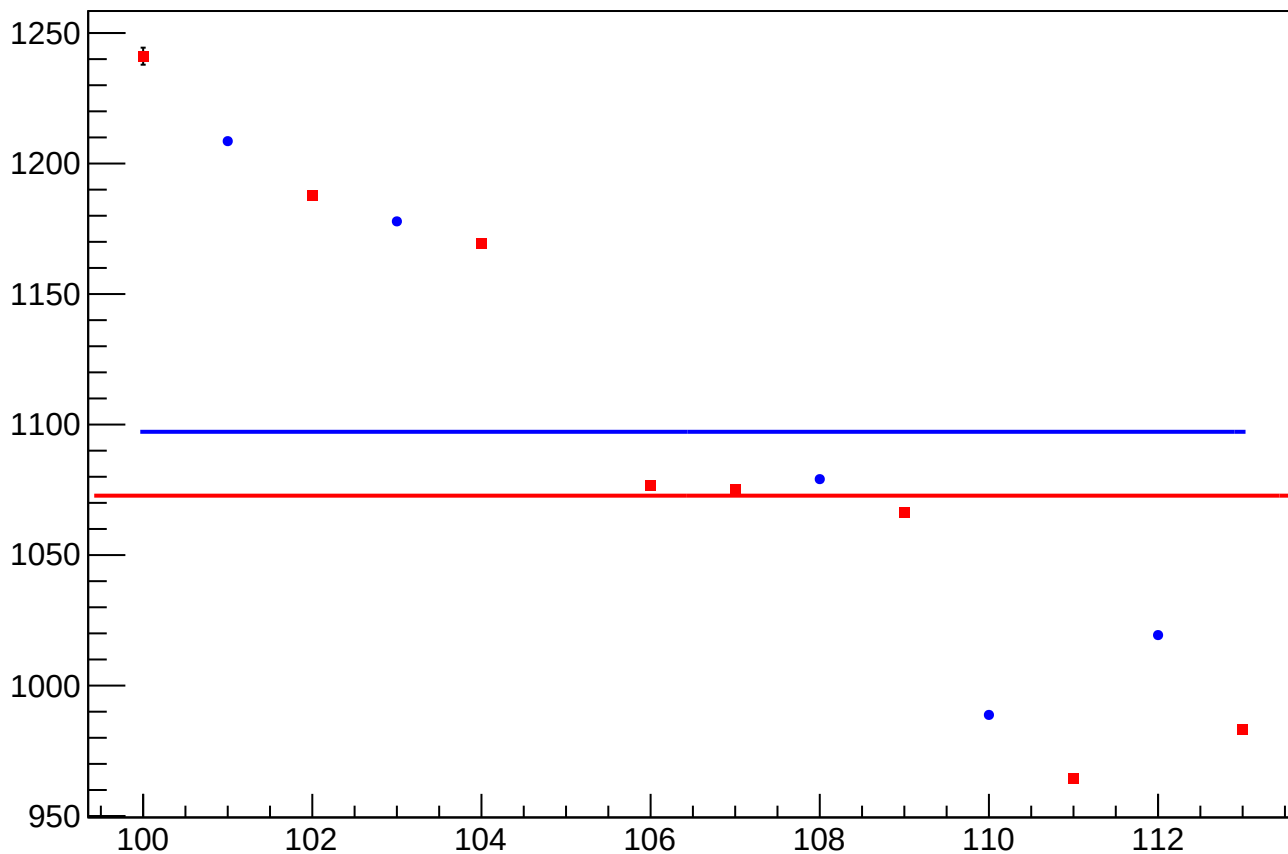
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.727+/-0.451  $\chi^2/\text{NDF}$ : 139.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l10Y\_rms vs Slug



Right In: 1097.228 $\pm$ 0.489  $\chi^2$ /NDF: 31940.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1072.761 $\pm$ 0.420  $\chi^2$ /NDF: 41092.6/7

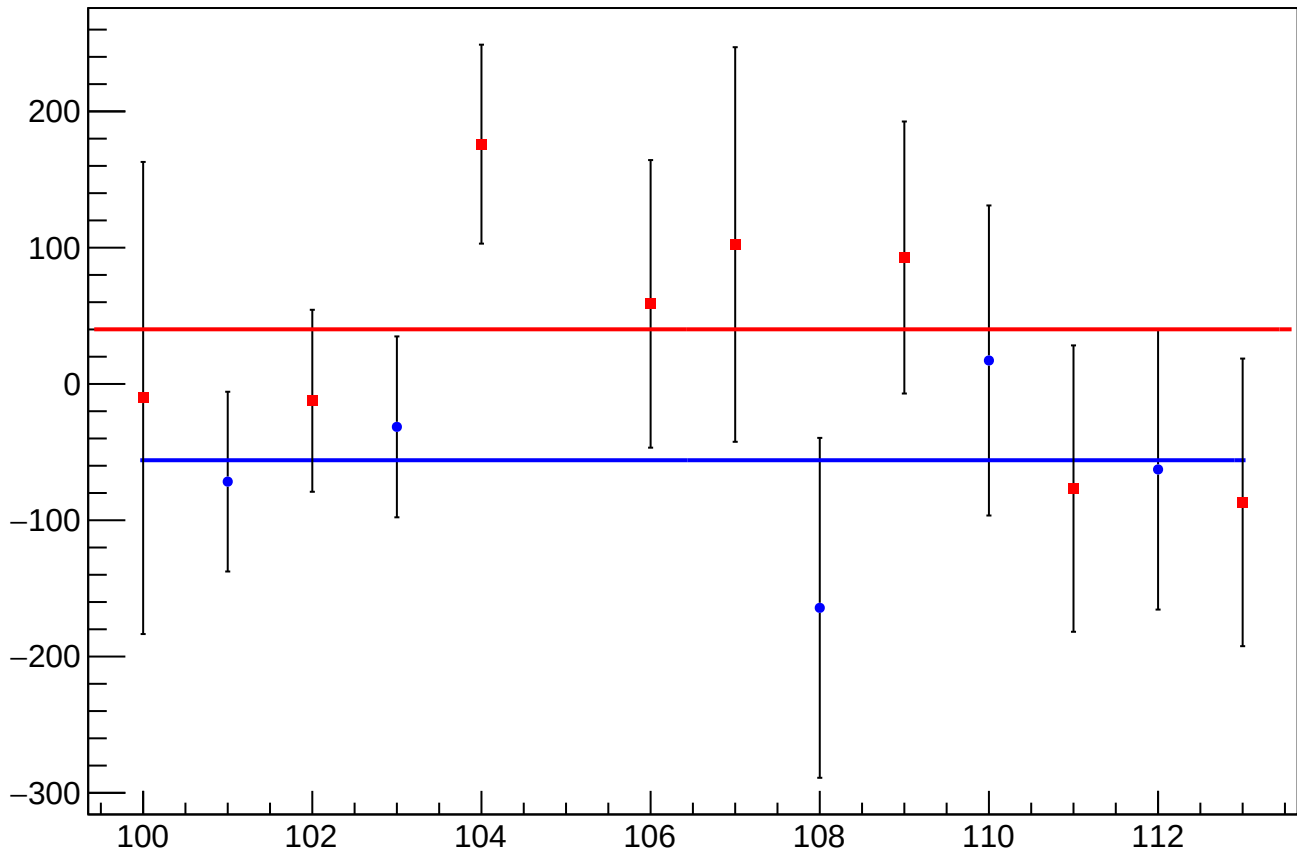
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1083.157 $\pm$ 0.319  $\chi^2$ /NDF: 74472.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0r03X\_mean vs Slug



Right In:  $-55.956 \pm 37.983$   $\chi^2/\text{NDF}$ : 1.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $40.096 \pm 34.025$   $\chi^2/\text{NDF}$ : 7.3/7

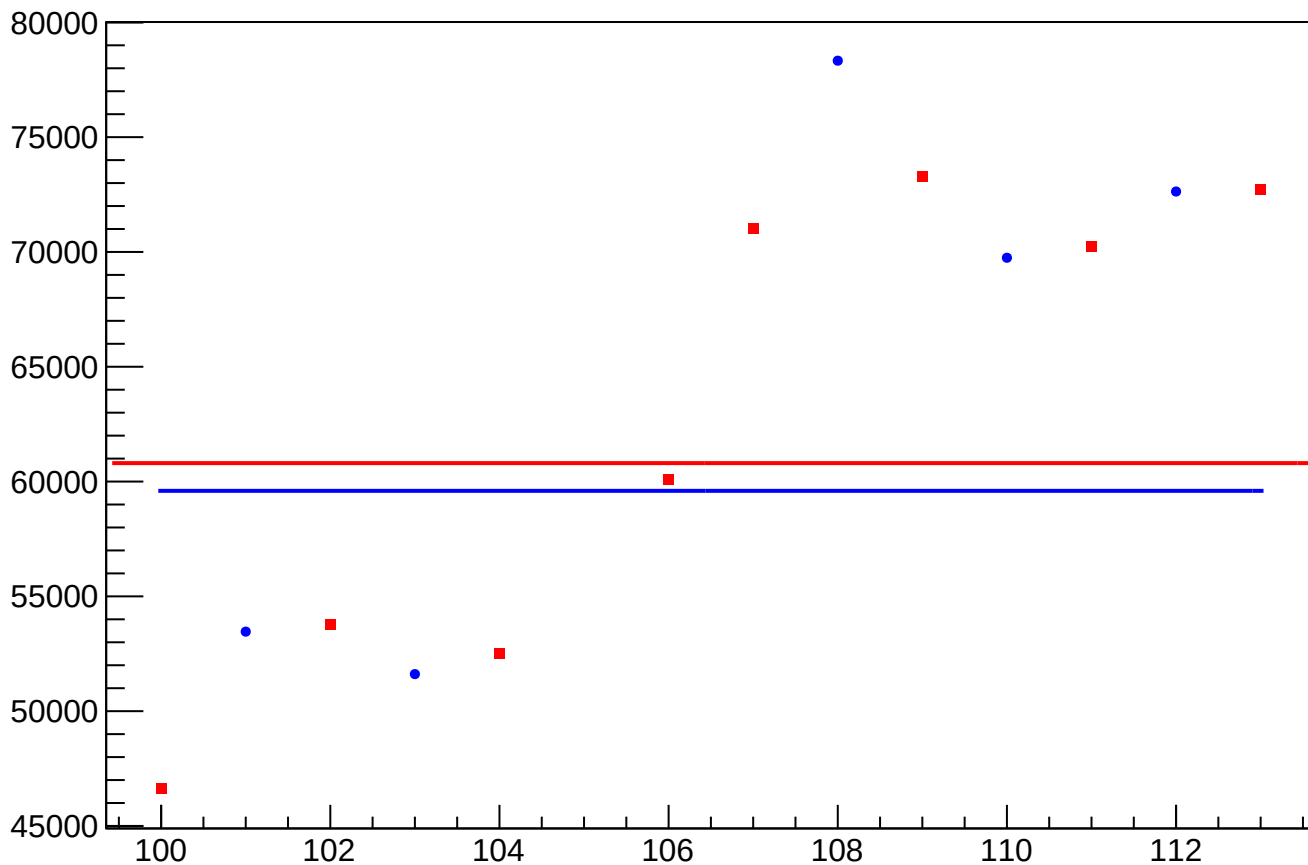
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.667 \pm 25.344$   $\chi^2/\text{NDF}$ : 12.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0r03X\_rms vs Slug



Right In: 59595.923+/-26.858  $\chi^2/\text{NDF}$ : 139436.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 60803.146+/-24.059  $\chi^2/\text{NDF}$ : 144412.2/7

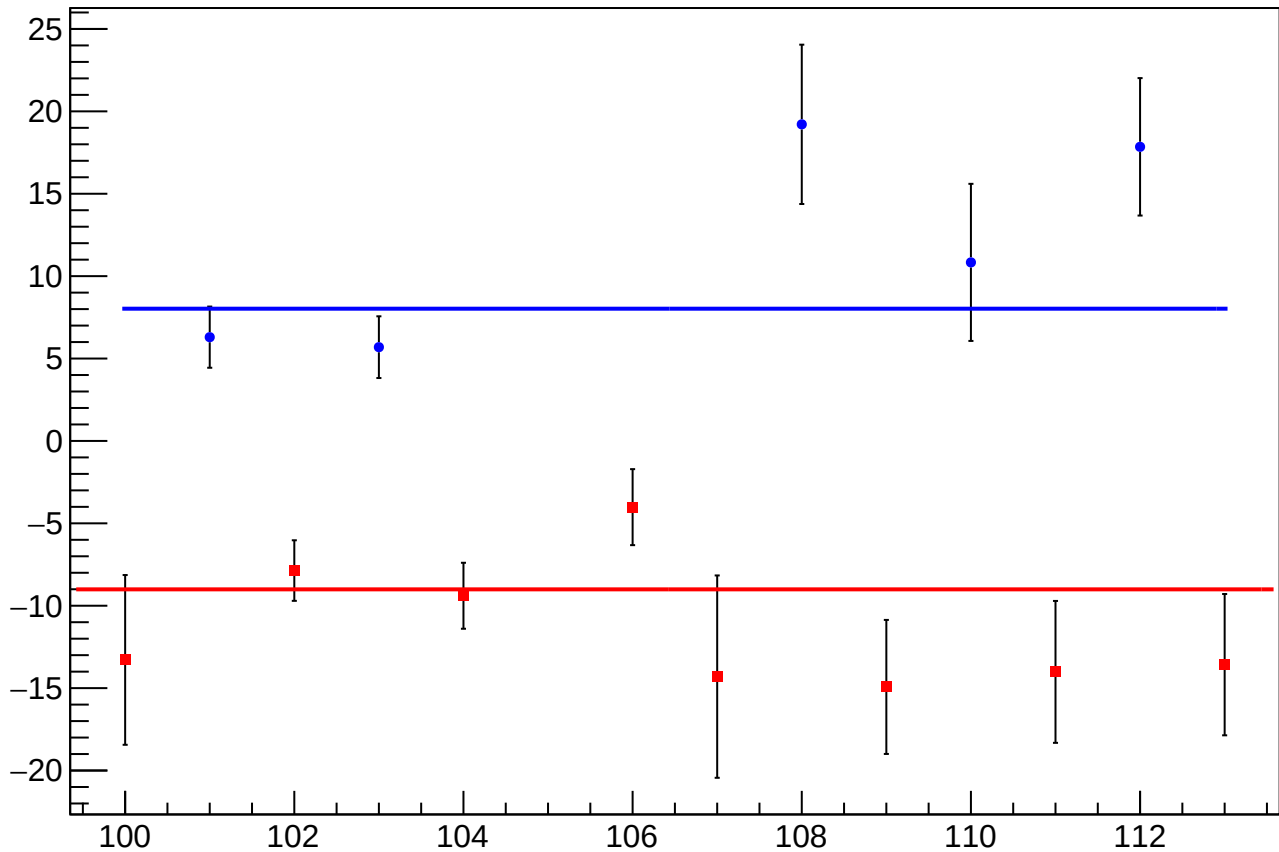
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 60265.681+/-17.921  $\chi^2/\text{NDF}$ : 284969.7/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0r03Y\_mean vs Slug



Right In:  $8.025 \pm 1.179$   $\chi^2/\text{NDF}: 13.7/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-9.006 \pm 1.017$   $\chi^2/\text{NDF}: 11.1/7$

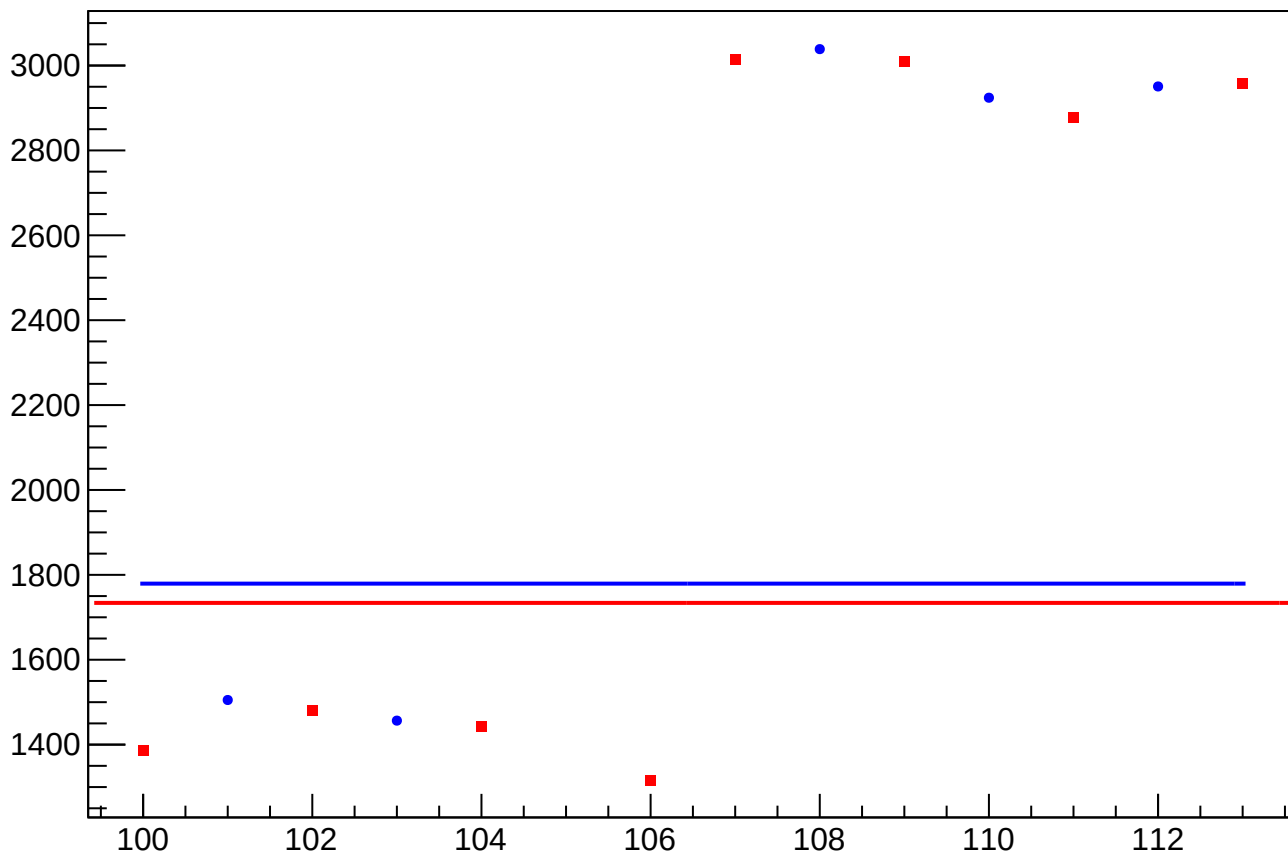
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-1.738 \pm 0.770$   $\chi^2/\text{NDF}: 144.5/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# diff\_bpm0r03Y\_rms vs Slug



Right In: 1779.310+/-0.834  $\chi^2/\text{NDF}$ : 511930.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1733.915+/-0.719  $\chi^2/\text{NDF}$ : 742867.7/7

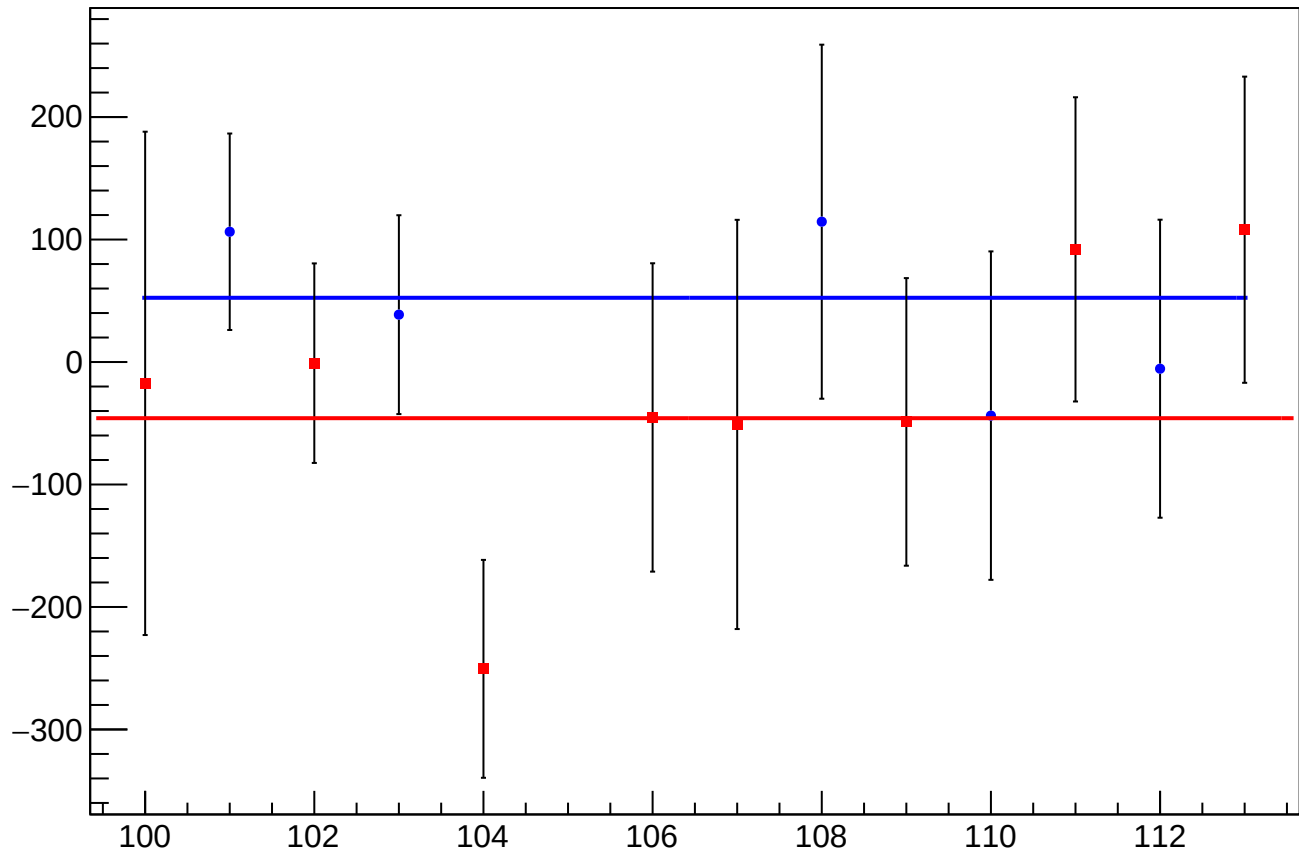
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1753.288+/-0.545  $\chi^2/\text{NDF}$ : 1256498.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0r05X\_mean vs Slug



Right In: 52.451 $\pm$ 45.727  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -45.856 $\pm$ 40.788  $\chi^2$ /NDF: 8.4/7

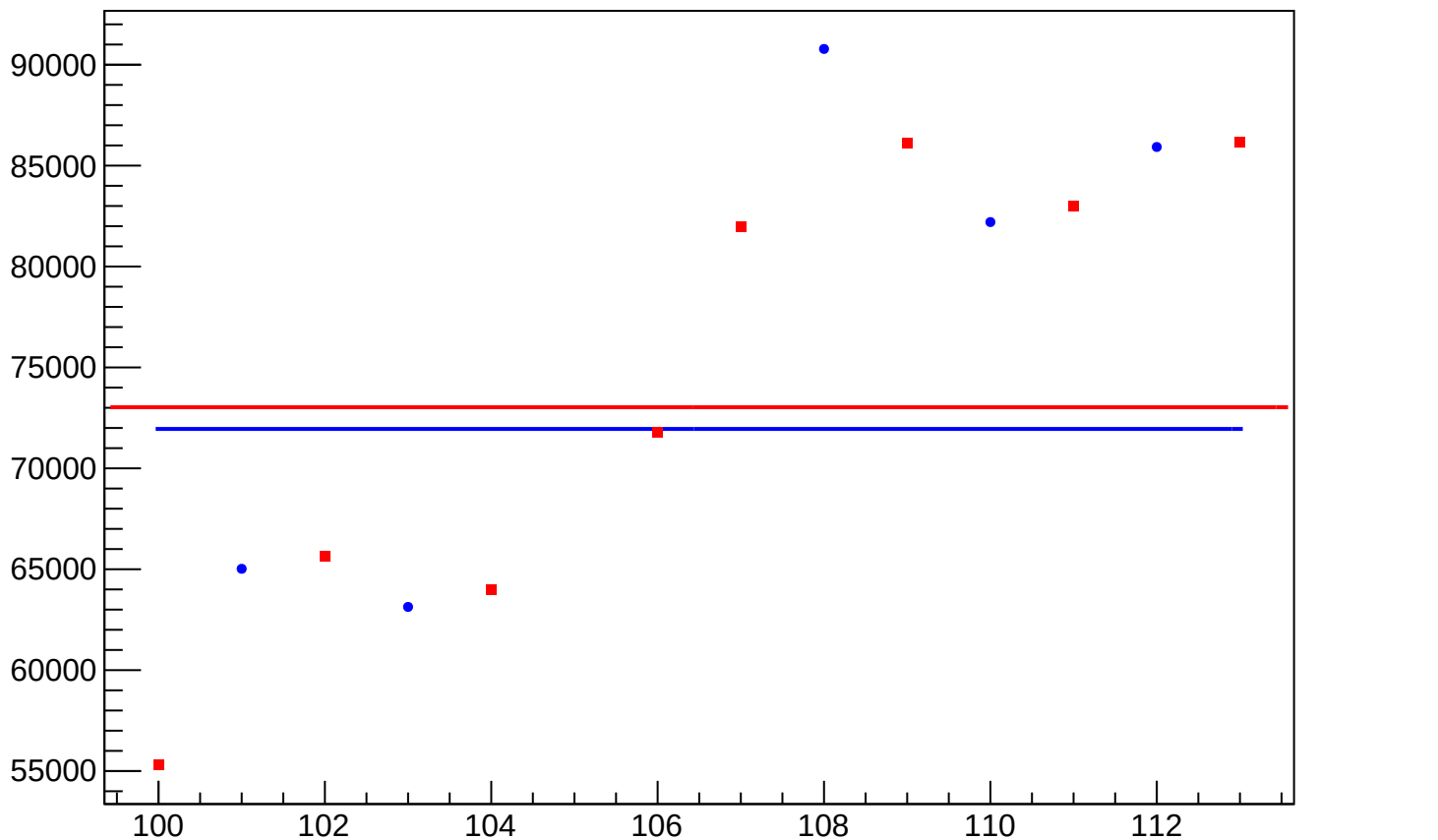
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2.296 $\pm$ 30.438  $\chi^2$ /NDF: 12.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0r05X\_rms vs Slug



Right In: 71951.779+/-32.334  $\chi^2/\text{NDF}$ : 110540.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73027.138+/-28.842  $\chi^2/\text{NDF}$ : 117819.4/7

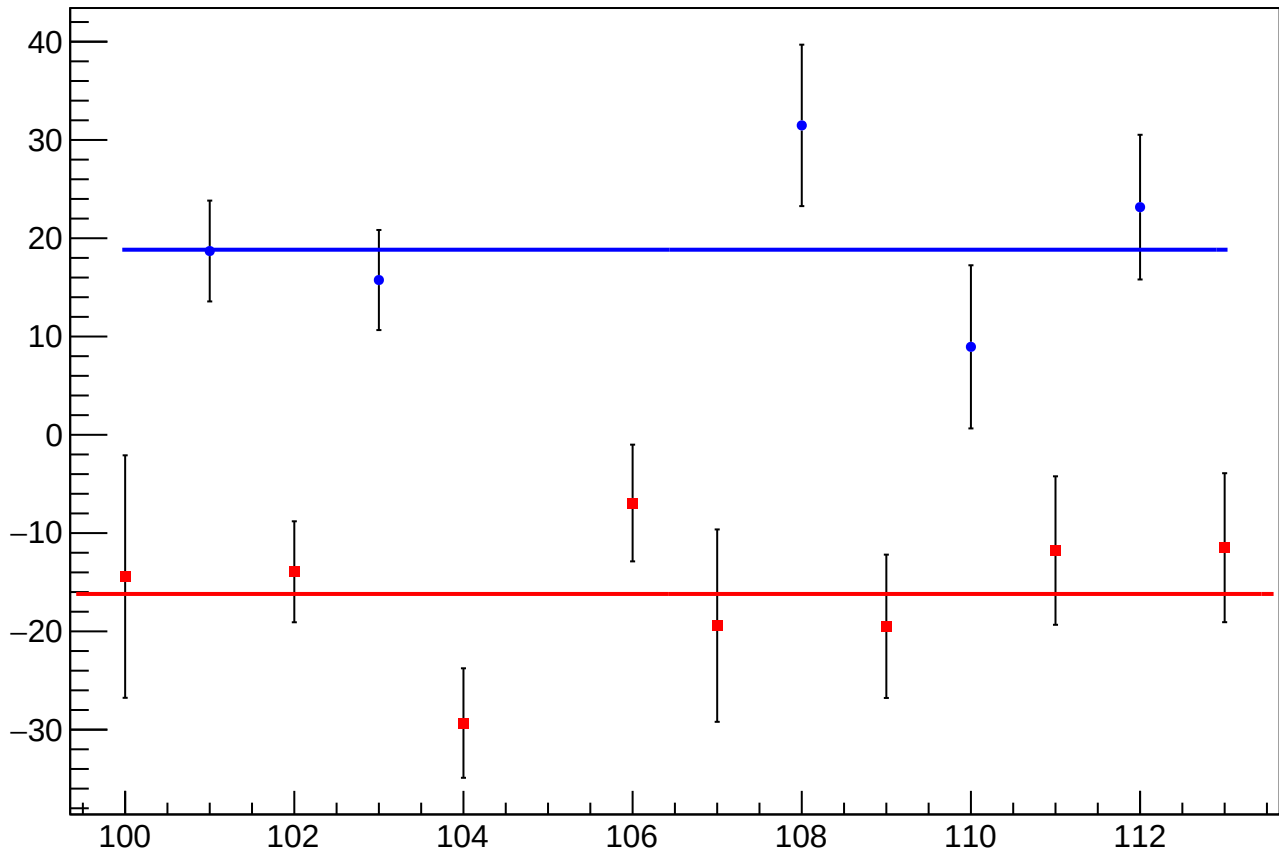
All: 72550.641+/-21.523  $\chi^2/\text{NDF}$ : 228976.2/13

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm0r05Y\_mean vs Slug



Right In: 18.833 $\pm$ 2.836  $\chi^2$ /NDF: 4.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -16.193 $\pm$ 2.431  $\chi^2$ /NDF: 9.2/7

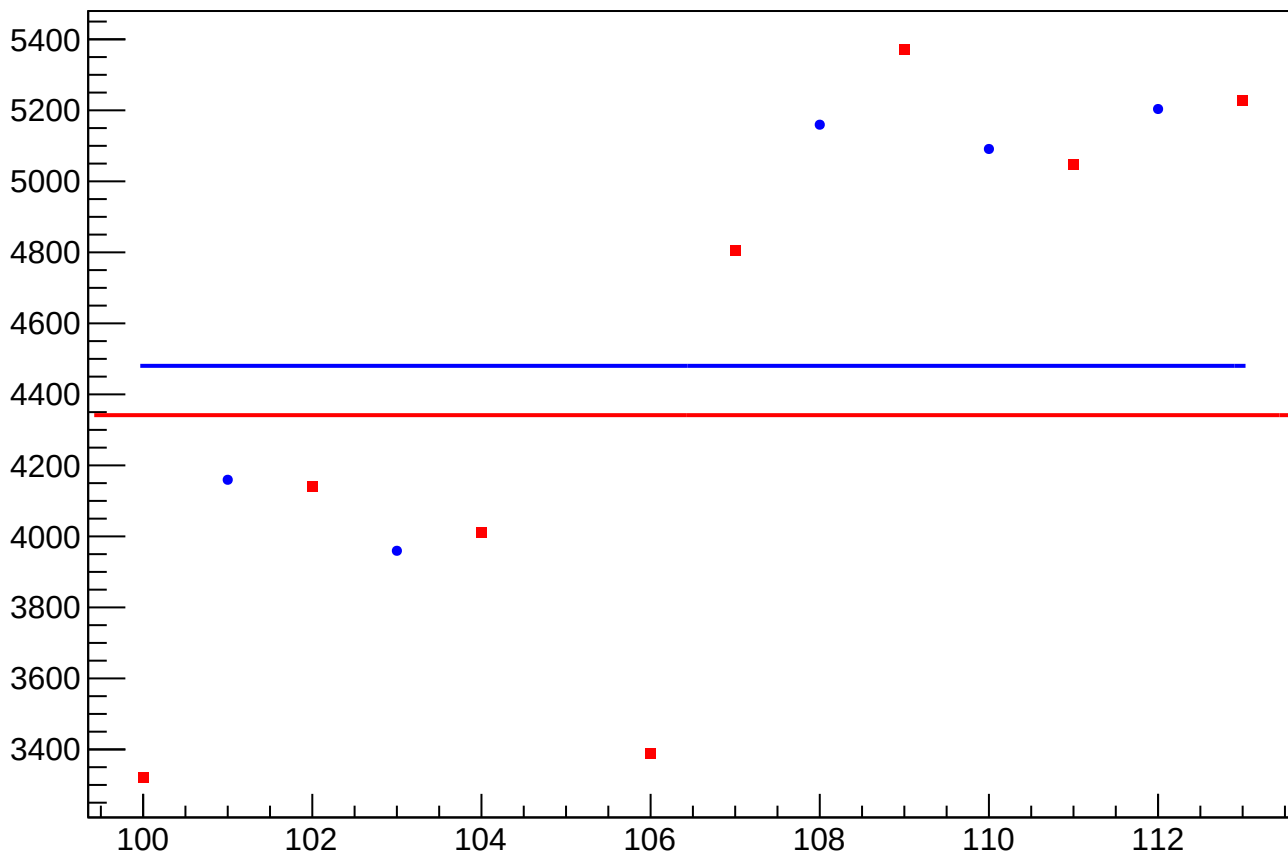
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.355 $\pm$ 1.846  $\chi^2$ /NDF: 101.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0r05Y\_rms vs Slug



Right In: 4480.366+/-2.005  $\chi^2/\text{NDF}$ : 72574.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4341.462+/-1.719  $\chi^2/\text{NDF}$ : 164405.5/7

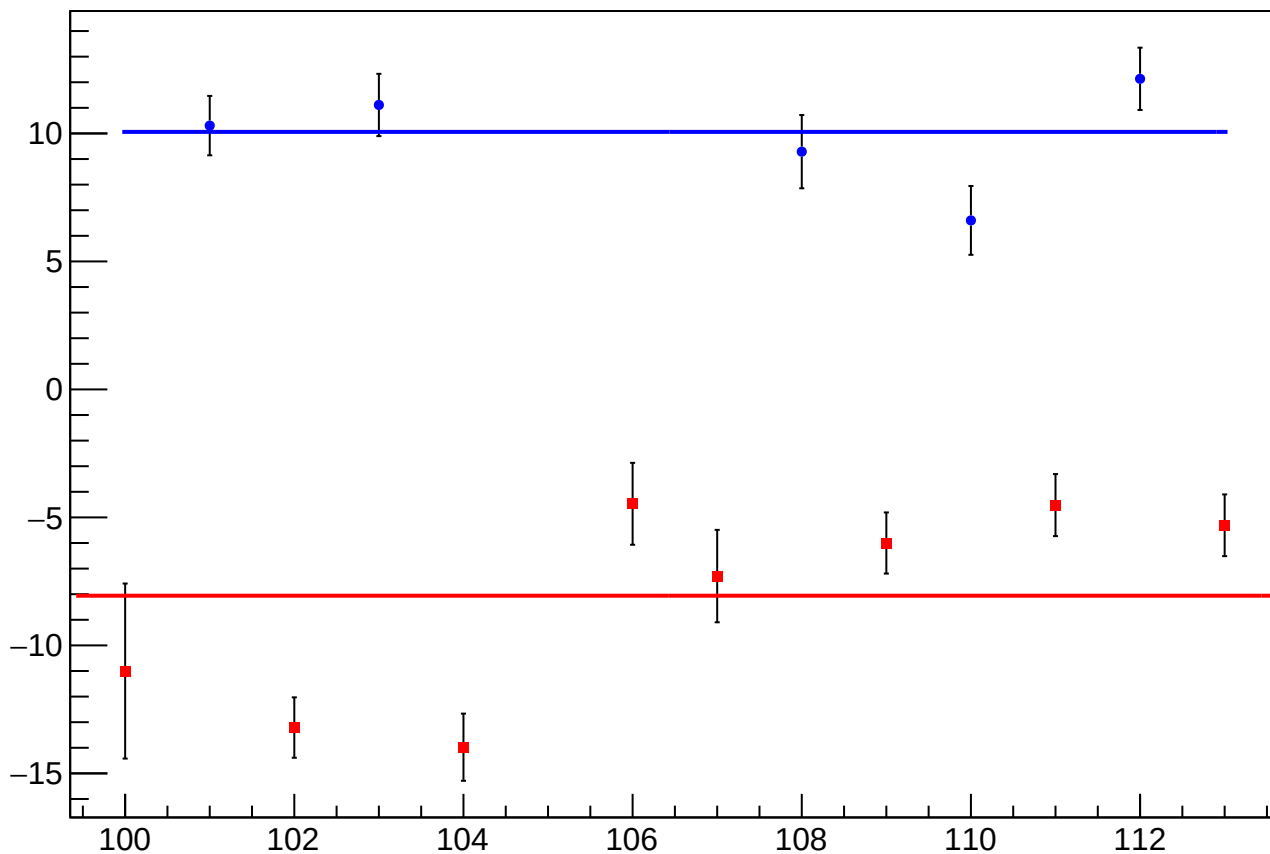
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4400.304+/-1.305  $\chi^2/\text{NDF}$ : 239745.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm2i01X\_mean vs Slug



Right In: 10.061 $\pm$ 0.565  $\chi^2$ /NDF: 10.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.059 $\pm$ 0.491  $\chi^2$ /NDF: 62.0/7

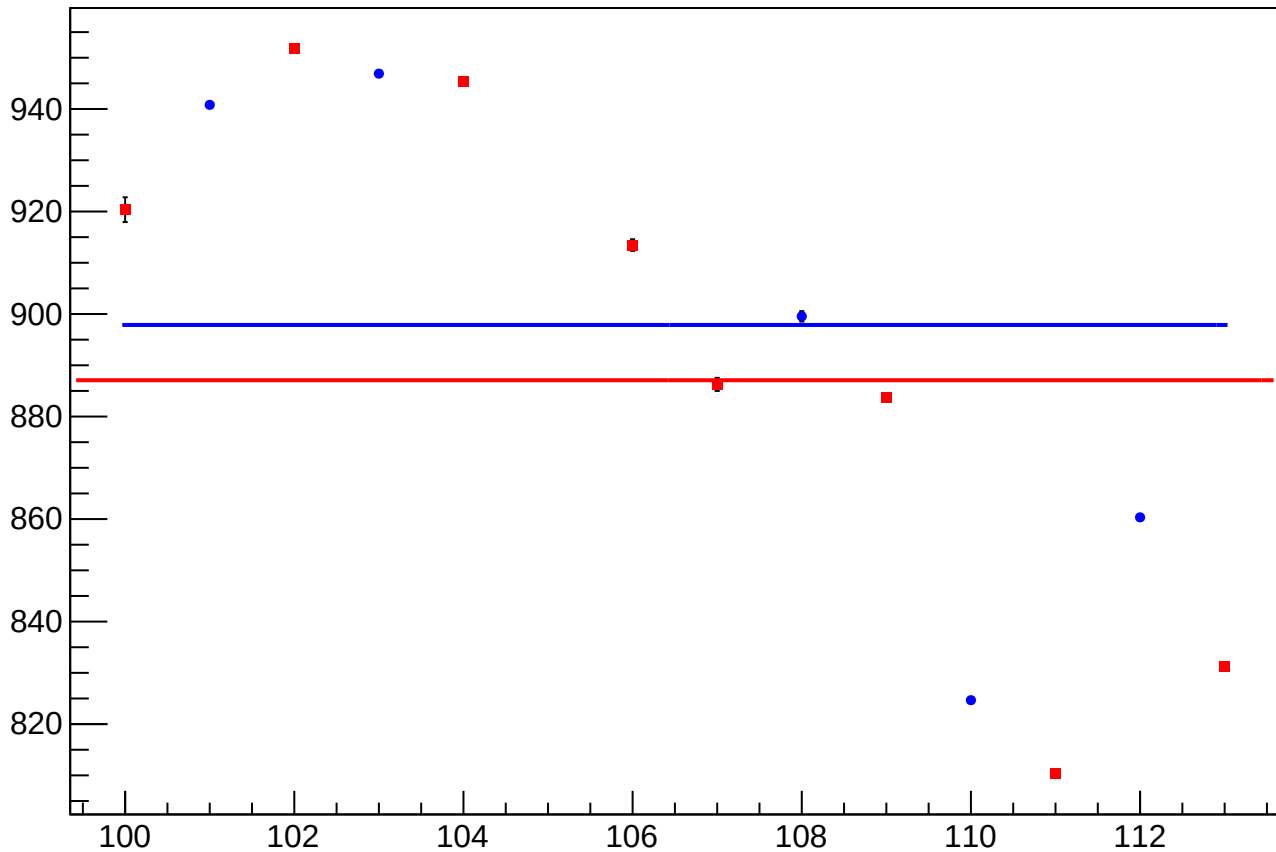
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.263 $\pm$ 0.370  $\chi^2$ /NDF: 659.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm2i01X\_rms vs Slug



Right In: 897.869 $\pm$ 0.399  $\chi^2$ /NDF: 13818.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 887.085 $\pm$ 0.347  $\chi^2$ /NDF: 22989.3/7

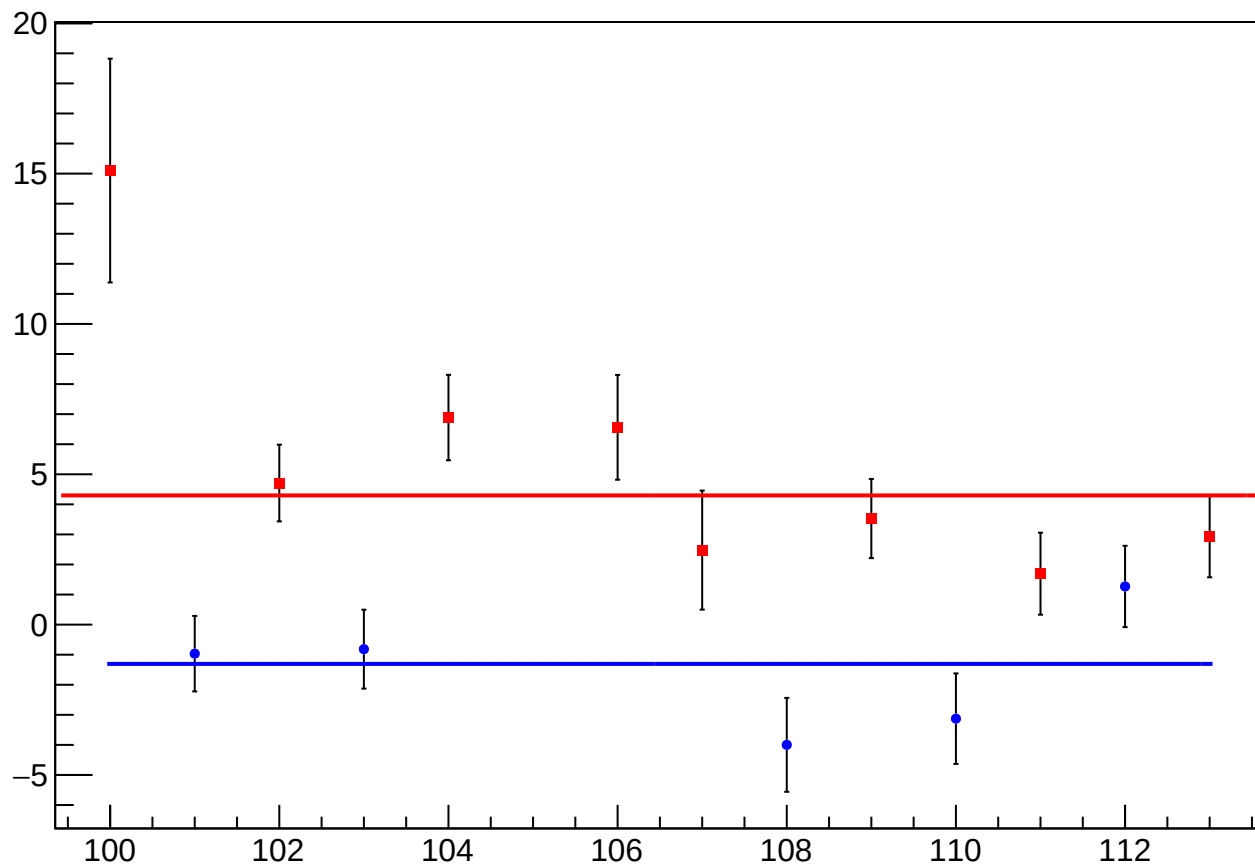
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 891.725 $\pm$ 0.262  $\chi^2$ /NDF: 37223.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm2i01Y\_mean vs Slug



Right In: -1.306 $\pm$ 0.619  $\chi^2$ /NDF: 8.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.297 $\pm$ 0.540  $\chi^2$ /NDF: 19.4/7

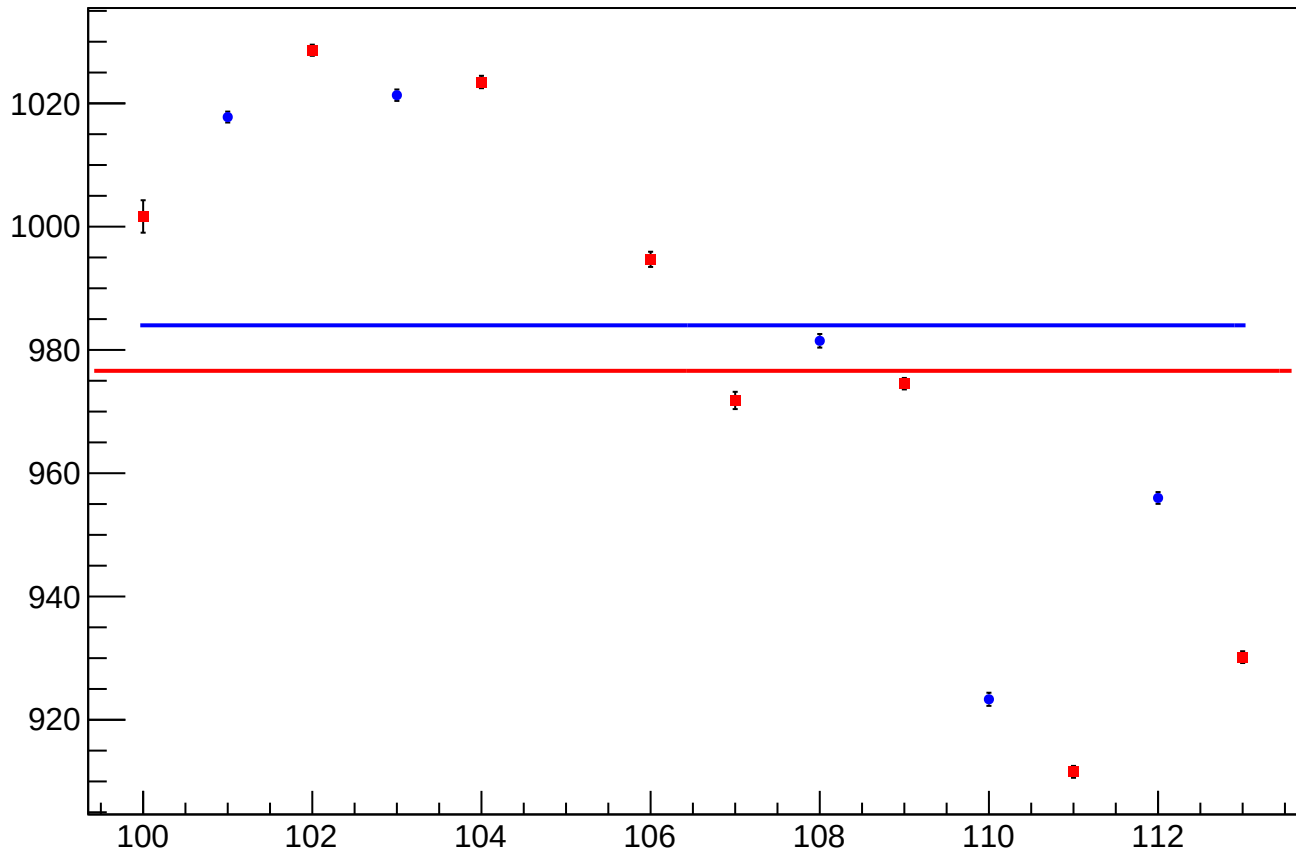
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.874 $\pm$ 0.407  $\chi^2$ /NDF: 74.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm2i01Y\_rms vs Slug



Right In: 983.992 $\pm$ 0.437  $\chi^2$ /NDF: 7178.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 976.611 $\pm$ 0.382  $\chi^2$ /NDF: 12742.3/7

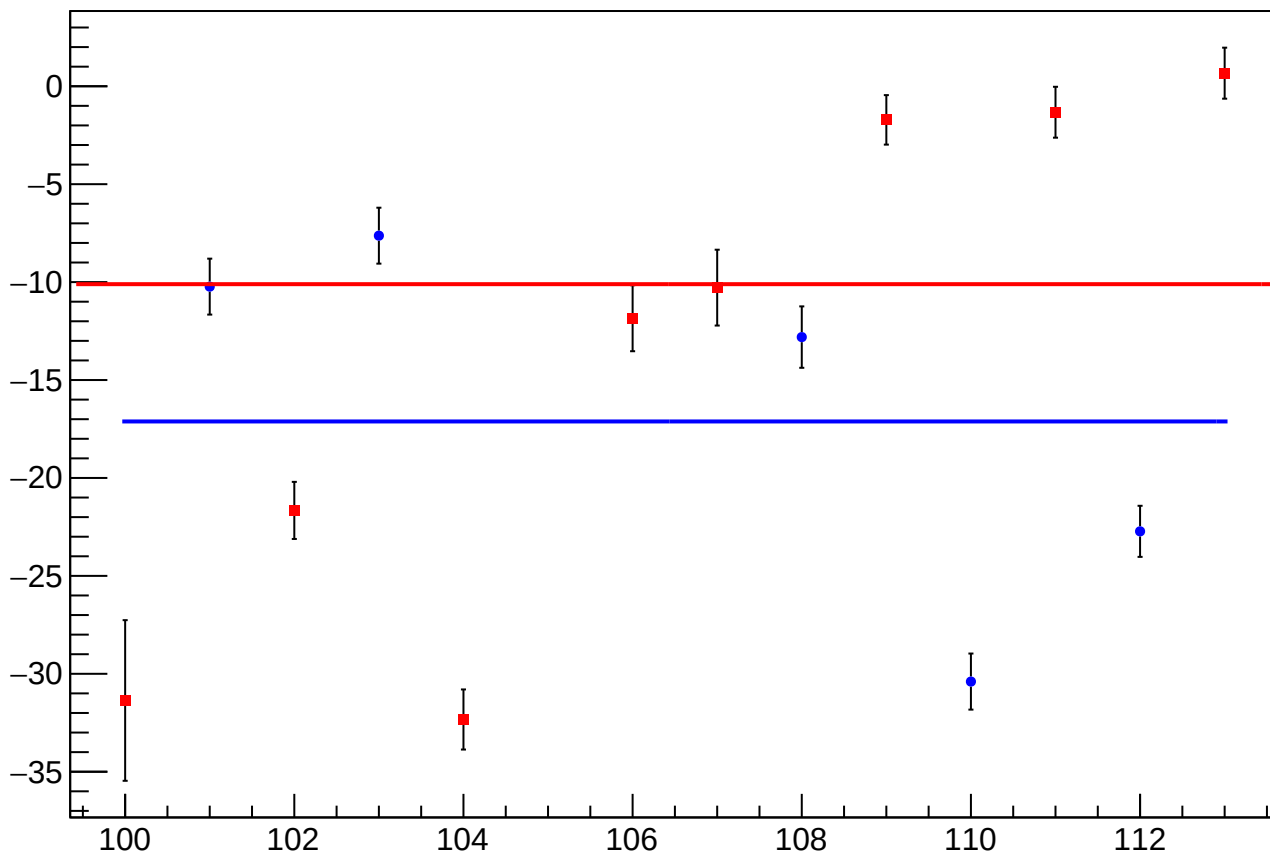
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 979.803 $\pm$ 0.288  $\chi^2$ /NDF: 20082.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm2i02X\_mean vs Slug



Right In:  $-17.115 \pm 0.637$   $\chi^2/\text{NDF}$ : 179.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-10.105 \pm 0.544$   $\chi^2/\text{NDF}$ : 458.8/7

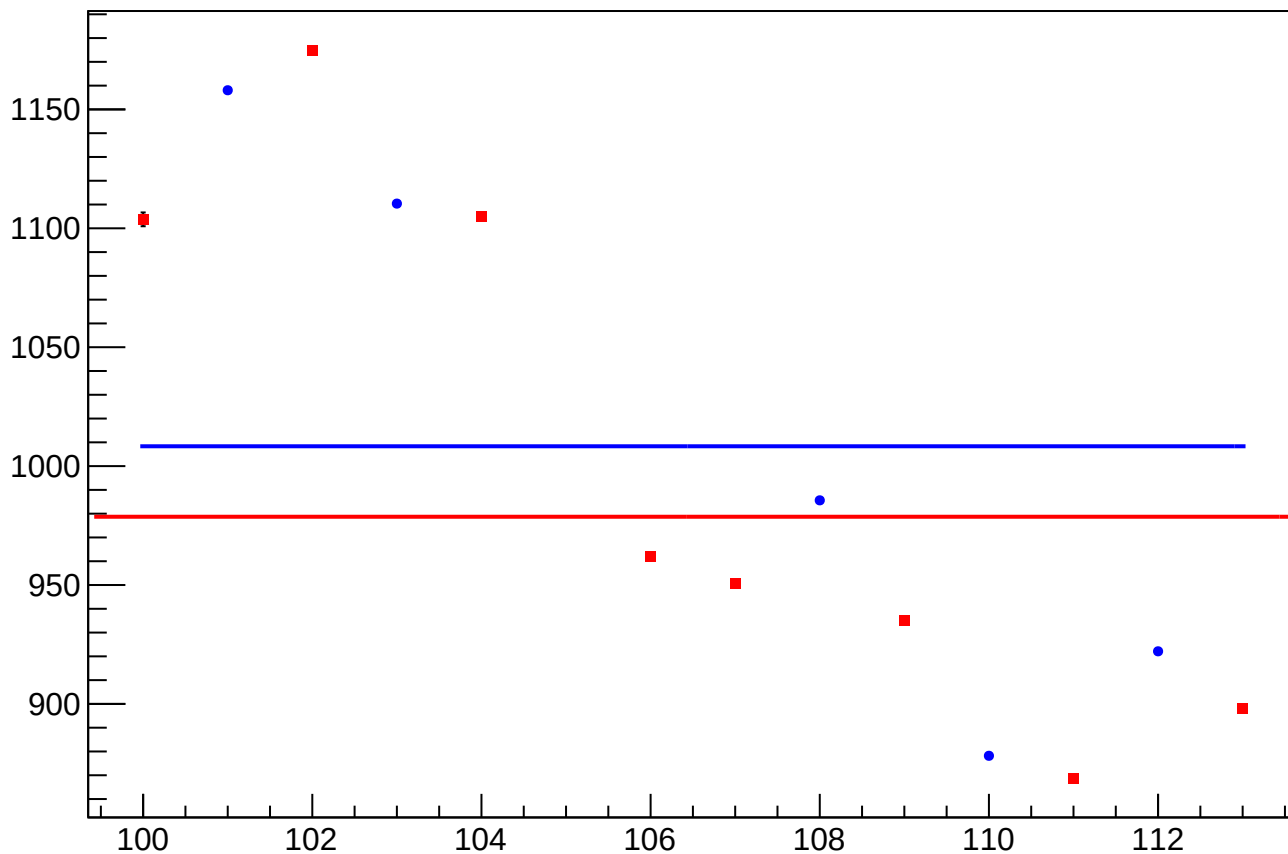
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-13.059 \pm 0.414$   $\chi^2/\text{NDF}$ : 708.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm2i02X\_rms vs Slug



Right In: 1008.343 $\pm$ 0.451  $\chi^2$ /NDF: 57889.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 978.709 $\pm$ 0.385  $\chi^2$ /NDF: 76710.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

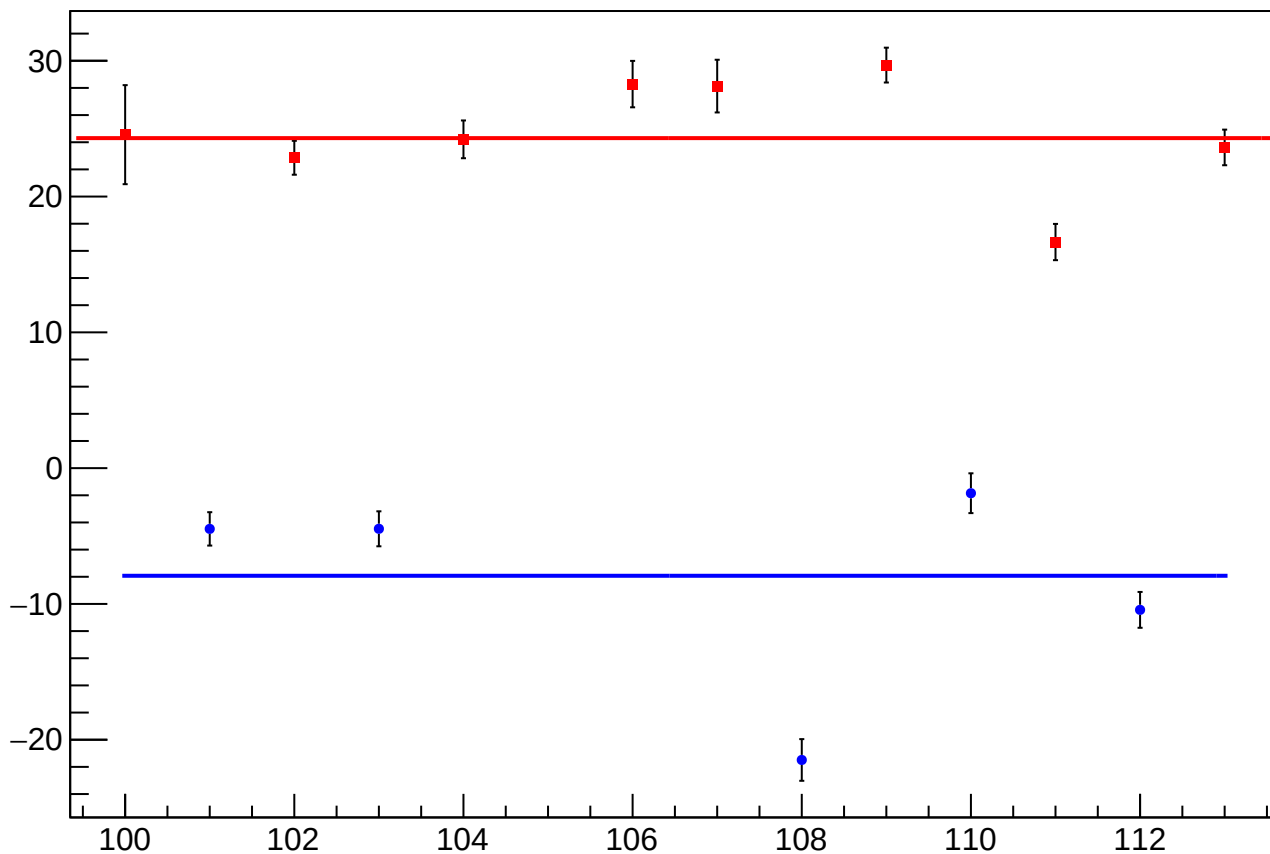
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 991.198 $\pm$ 0.292  $\chi^2$ /NDF: 137103.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm2i02Y\_mean vs Slug



Right In:  $-7.926 \pm 0.605$   $\chi^2/\text{NDF}$ : 114.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $24.303 \pm 0.528$   $\chi^2/\text{NDF}$ : 61.4/7

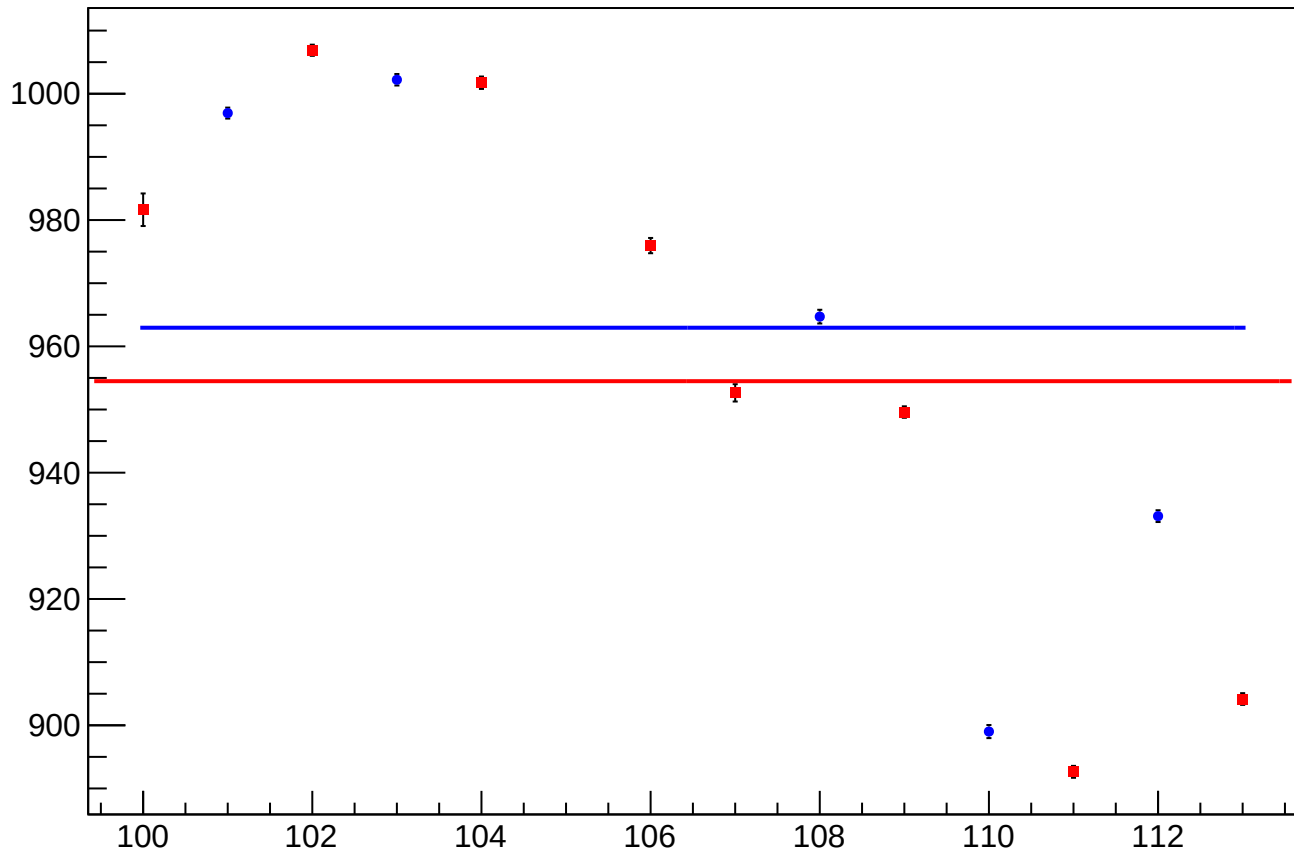
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $10.388 \pm 0.398$   $\chi^2/\text{NDF}$ : 1786.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm2i02Y\_rms vs Slug



Right In: 962.952 $\pm$ 0.428  $\chi^2$ /NDF: 8219.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 954.488 $\pm$ 0.373  $\chi^2$ /NDF: 13524.7/7

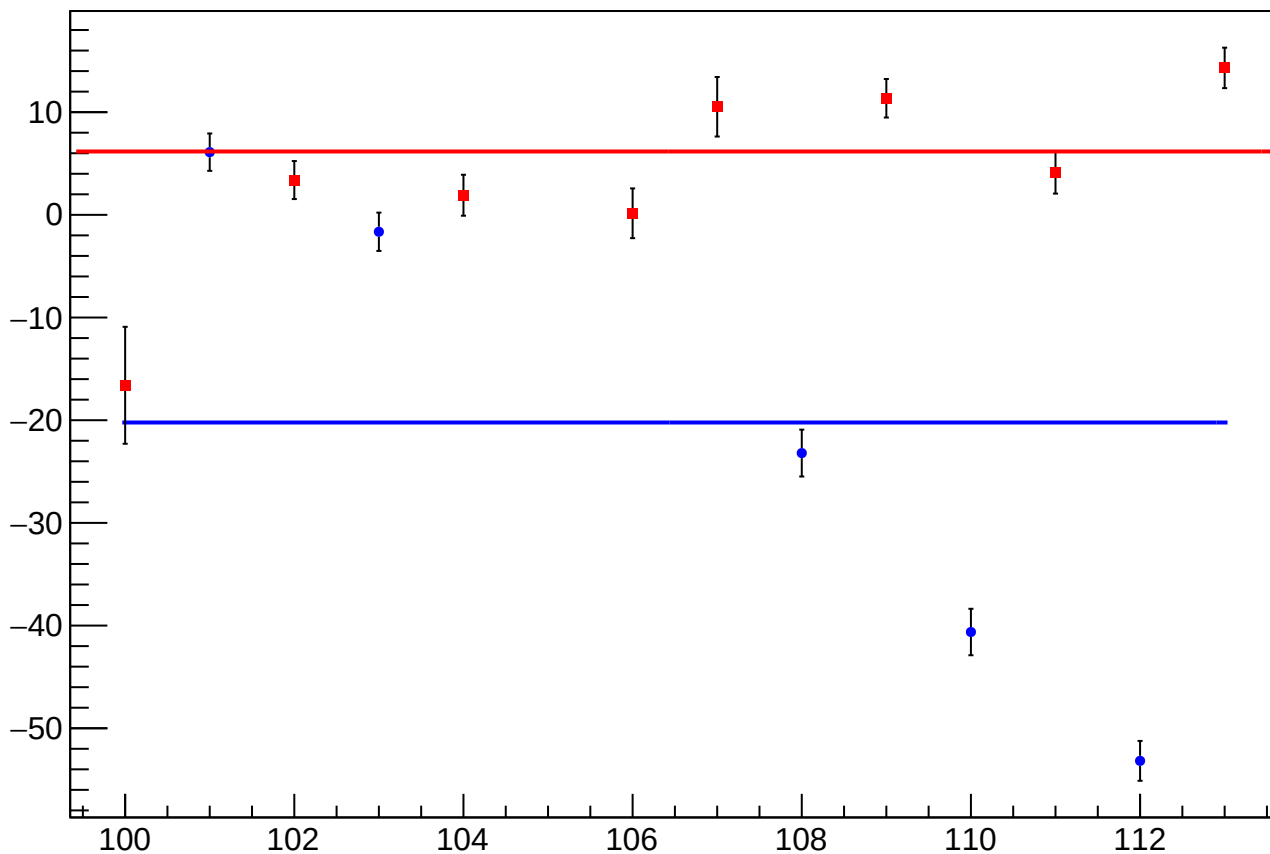
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 958.143 $\pm$ 0.281  $\chi^2$ /NDF: 21965.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i02X\_mean vs Slug



Right In:  $-20.223 \pm 0.897$   $\chi^2/\text{NDF}$ : 679.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $6.172 \pm 0.781$   $\chi^2/\text{NDF}$ : 56.9/7

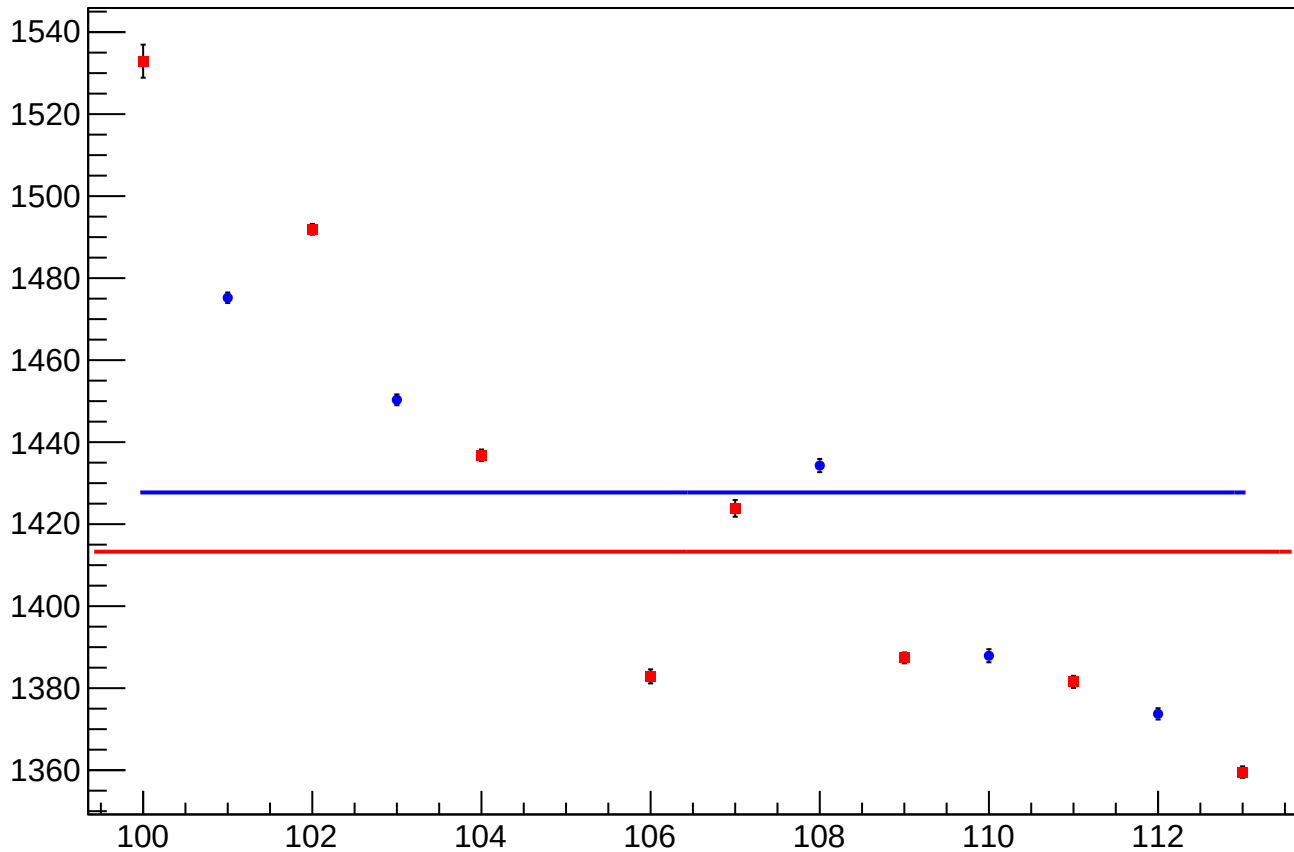
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.208 \pm 0.589$   $\chi^2/\text{NDF}$ : 1229.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i02X\_rms vs Slug



Right In: 1427.732 $\pm$ 0.634  $\chi^2$ /NDF: 3840.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1413.284 $\pm$ 0.552  $\chi^2$ /NDF: 7453.8/7

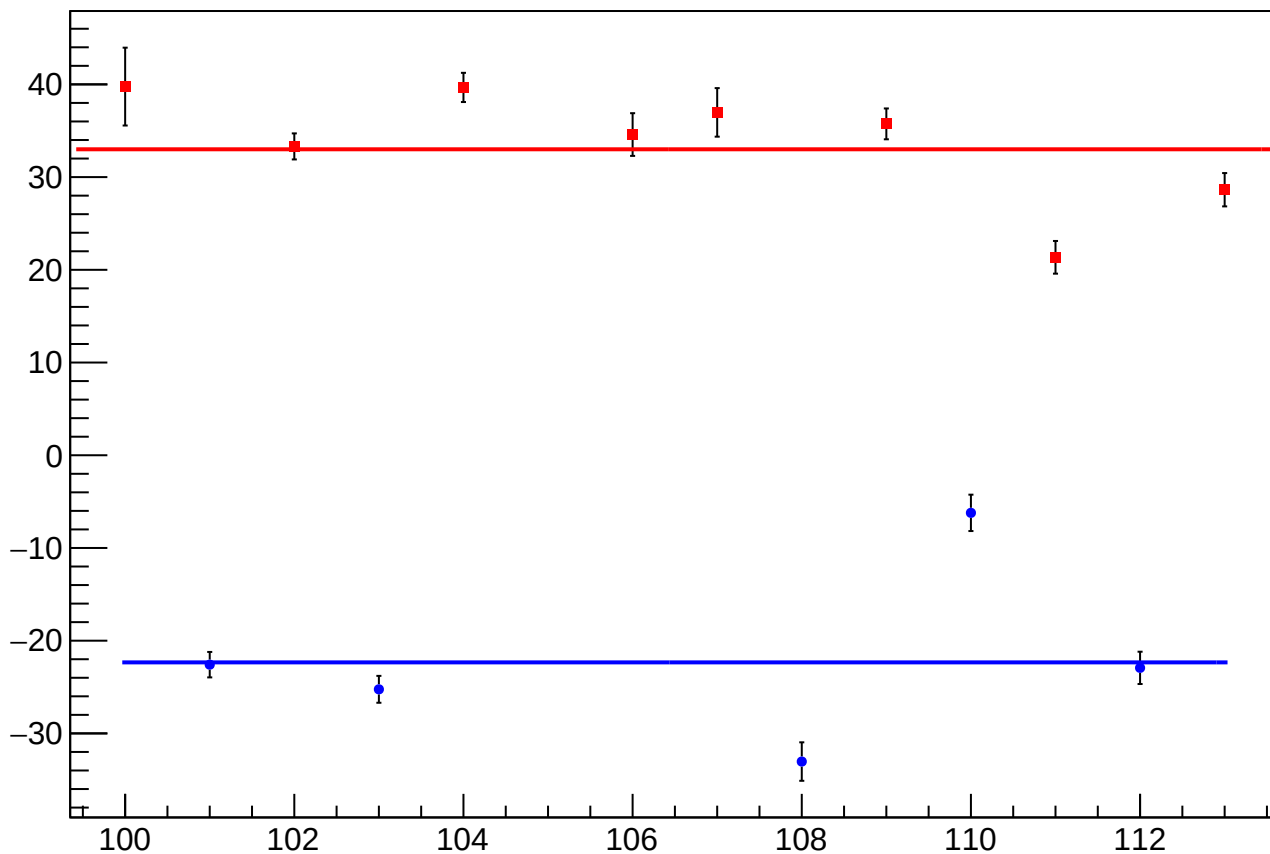
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1419.513 $\pm$ 0.417  $\chi^2$ /NDF: 11589.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

diff\_bpm0i02Y\_mean vs Slug



Right In:  $-22.340 \pm 0.740$   $\chi^2/\text{NDF}$ : 98.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $32.999 \pm 0.660$   $\chi^2/\text{NDF}$ : 75.7/7

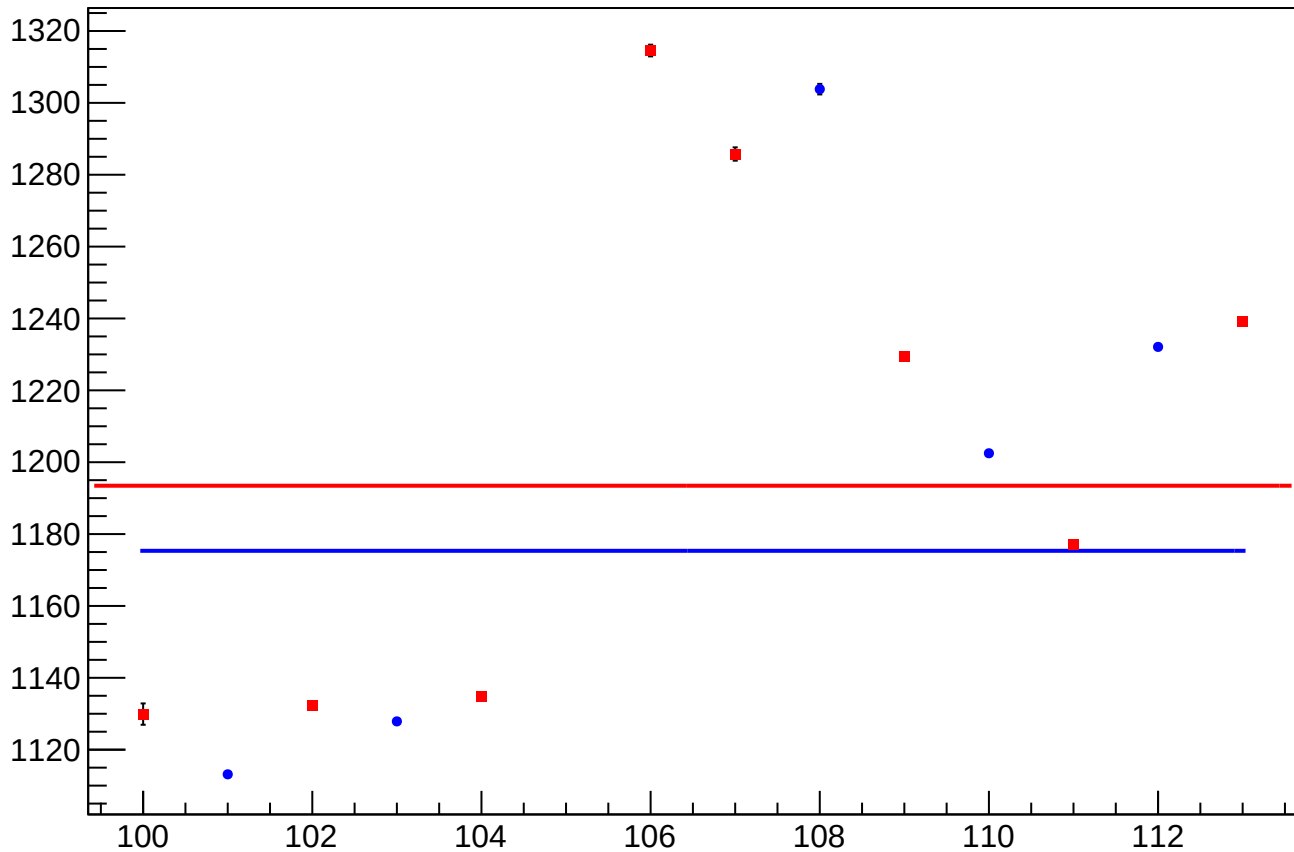
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $8.455 \pm 0.493$   $\chi^2/\text{NDF}$ : 3289.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i02Y\_rms vs Slug



Right In: 1175.344+/-0.523  $\chi^2/\text{NDF}$ : 16422.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1193.458+/-0.467  $\chi^2/\text{NDF}$ : 17442.5/7

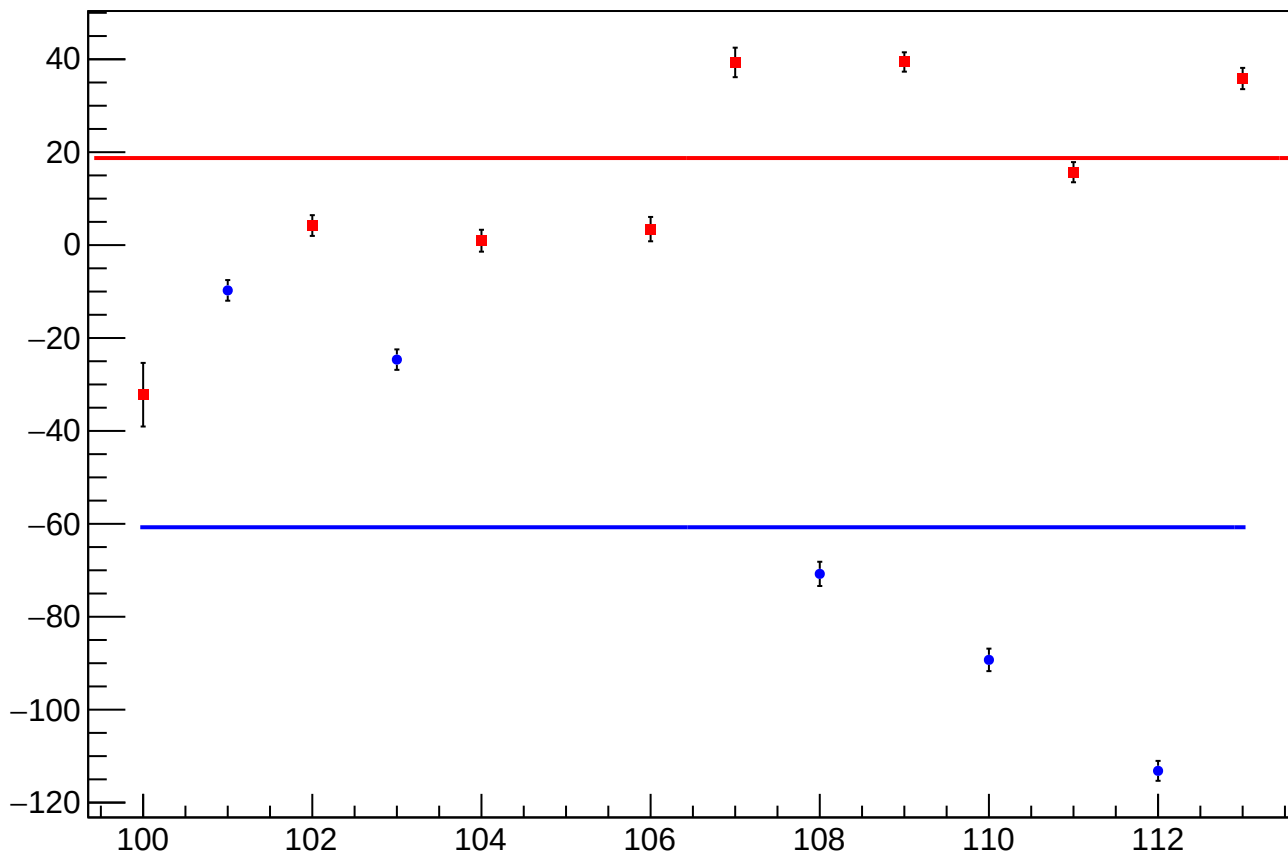
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1185.424+/-0.348  $\chi^2/\text{NDF}$ : 34532.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i02aX\_mean vs Slug



Right In: -60.734 $\pm$ 1.029  $\chi^2$ /NDF: 1547.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18.737 $\pm$ 0.884  $\chi^2$ /NDF: 387.5/7

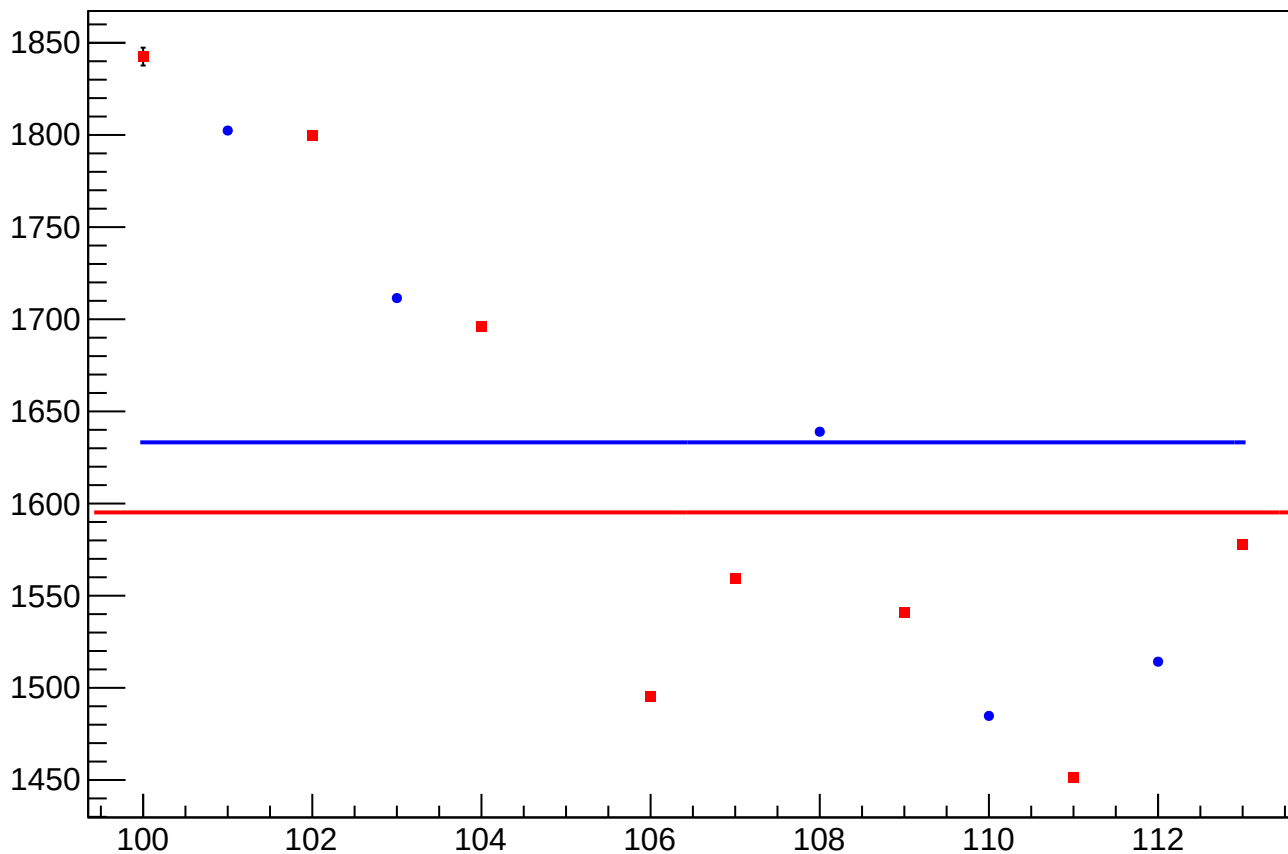
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.991 $\pm$ 0.670  $\chi^2$ /NDF: 5368.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i02aX\_rms vs Slug



Right In: 1633.206 $\pm$ 0.728  $\chi^2$ /NDF: 27821.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1595.186 $\pm$ 0.625  $\chi^2$ /NDF: 36561.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

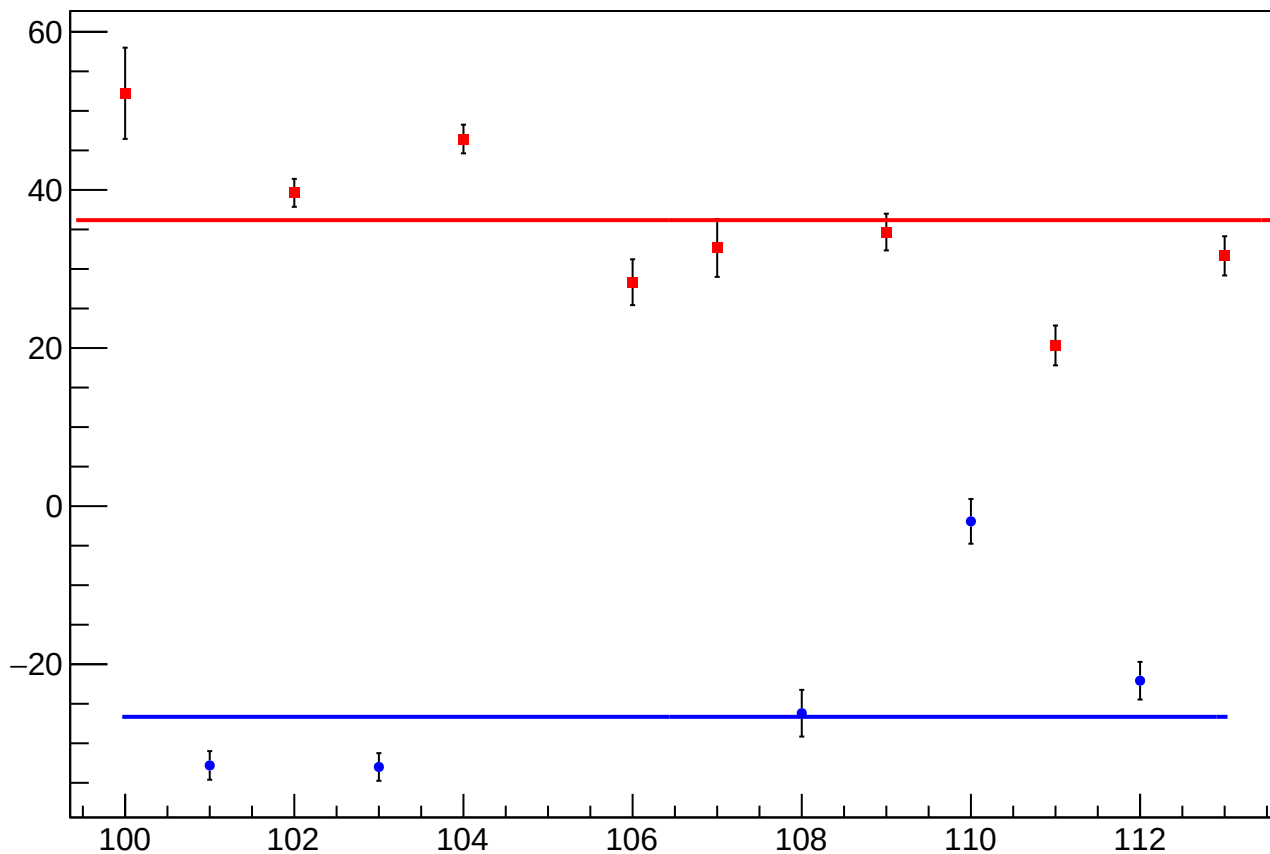
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1611.322 $\pm$ 0.474  $\chi^2$ /NDF: 65954.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm0i02aY\_mean vs Slug



Right In:  $-26.651 \pm 0.977$   $\chi^2/\text{NDF}$ : 104.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $36.177 \pm 0.860$   $\chi^2/\text{NDF}$ : 95.2/7

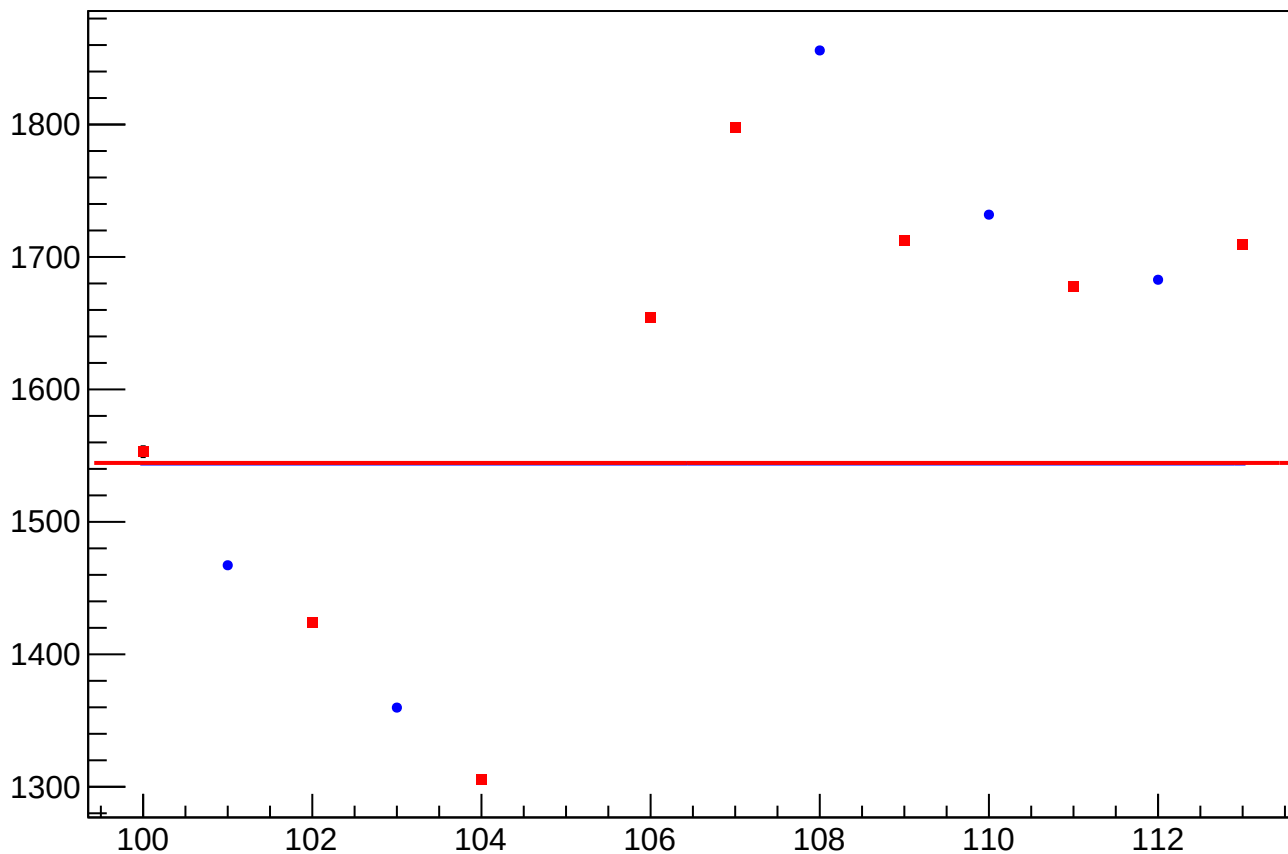
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $8.755 \pm 0.645$   $\chi^2/\text{NDF}$ : 2531.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i02aY\_rms vs Slug



Right In: 1544.071 $\pm$ 0.691  $\chi^2$ /NDF: 63698.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1544.506 $\pm$ 0.608  $\chi^2$ /NDF: 81198.5/7

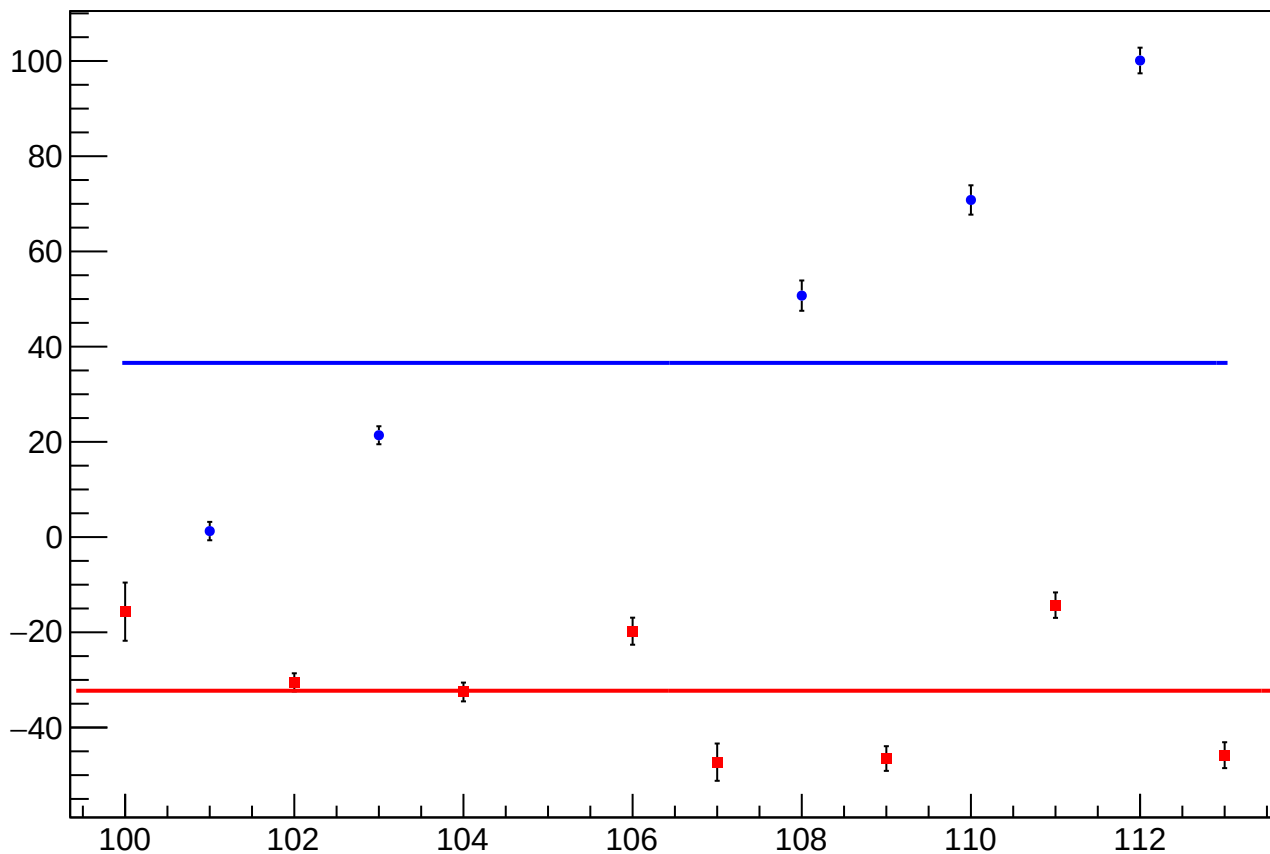
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1544.316 $\pm$ 0.456  $\chi^2$ /NDF: 144896.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i05X\_mean vs Slug



Right In: 36.590+/-1.060  $\chi^2/\text{NDF}$ : 1097.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32.273+/-0.923  $\chi^2/\text{NDF}$ : 142.6/7

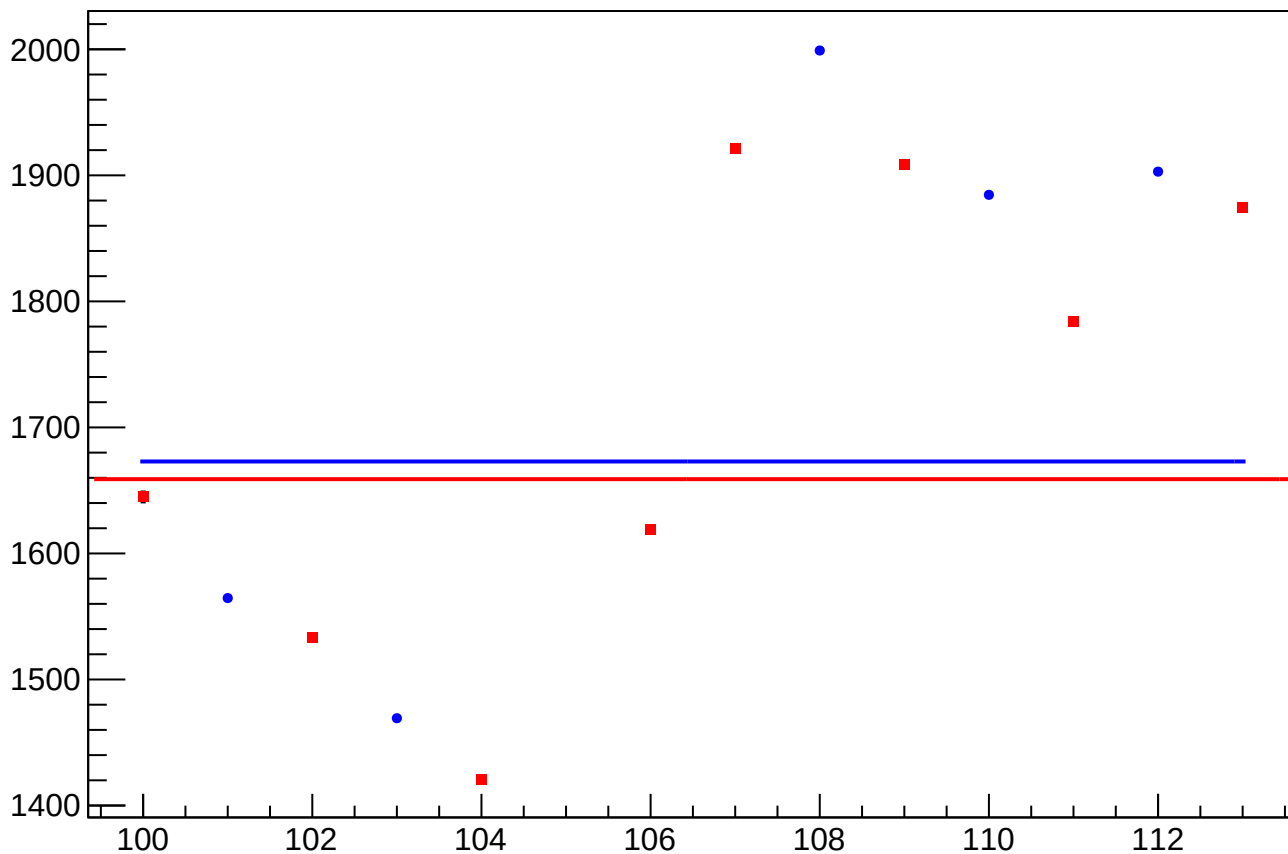
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.569+/-0.696  $\chi^2/\text{NDF}$ : 3640.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i05X\_rms vs Slug



Right In: 1672.974 $\pm$ 0.750  $\chi^2$ /NDF: 74522.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1658.943 $\pm$ 0.653  $\chi^2$ /NDF: 82809.5/7

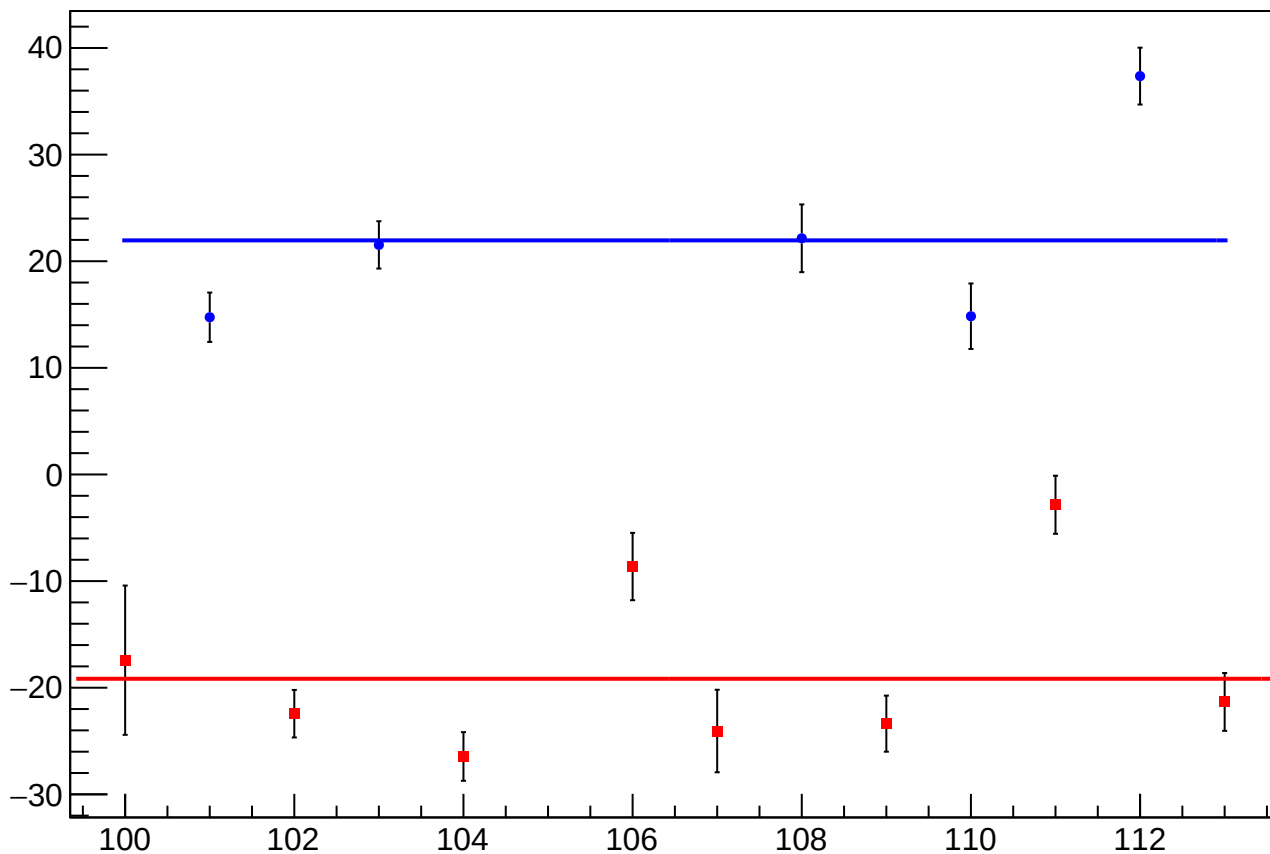
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1664.995 $\pm$ 0.492  $\chi^2$ /NDF: 157531.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i05Y\_mean vs Slug



Right In: 21.955+/-1.166  $\chi^2/\text{NDF}$ : 48.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -19.162+/-1.002  $\chi^2/\text{NDF}$ : 64.2/7

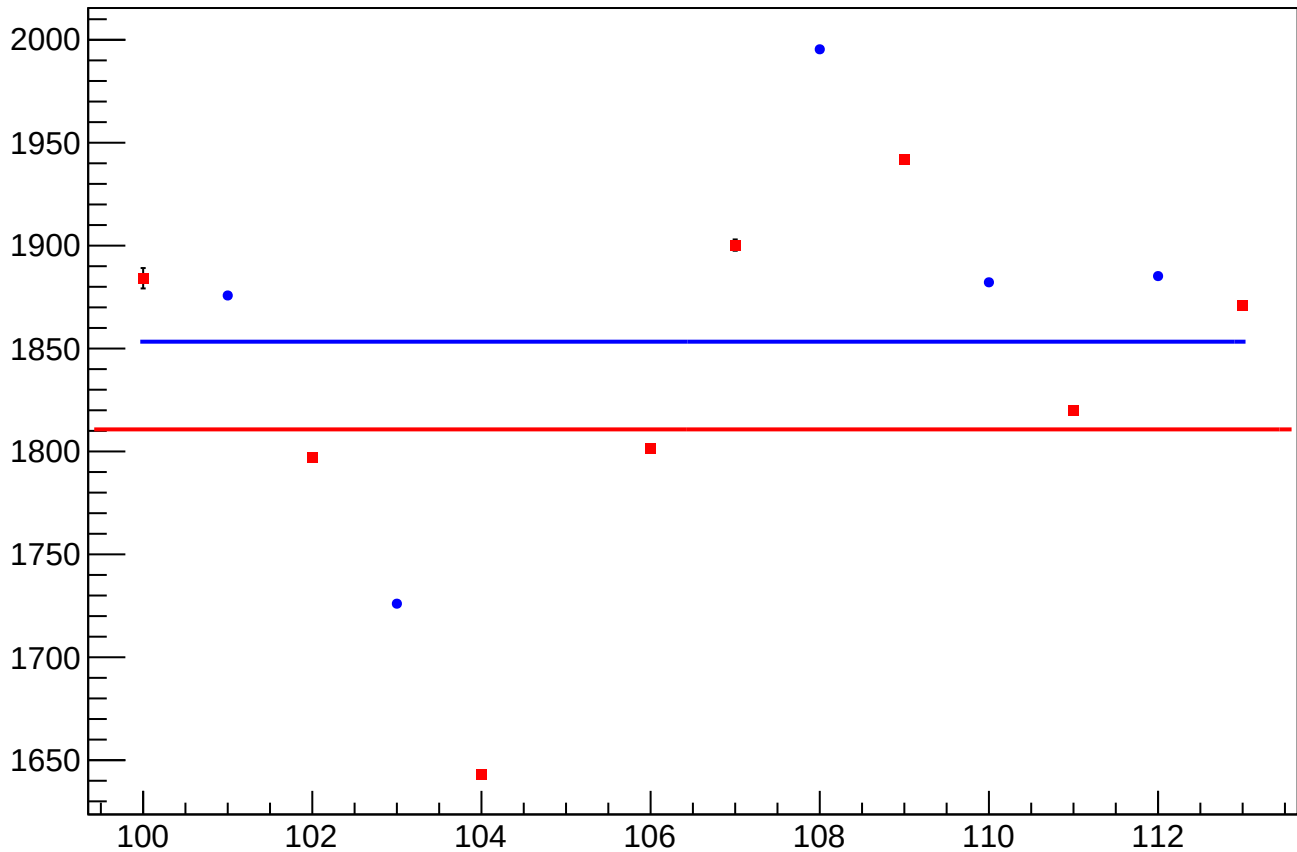
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.697+/-0.760  $\chi^2/\text{NDF}$ : 827.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i05Y\_rms vs Slug



Right In: 1853.332 $\pm$ 0.825  $\chi^2$ /NDF: 11227.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1810.715 $\pm$ 0.709  $\chi^2$ /NDF: 18171.6/7

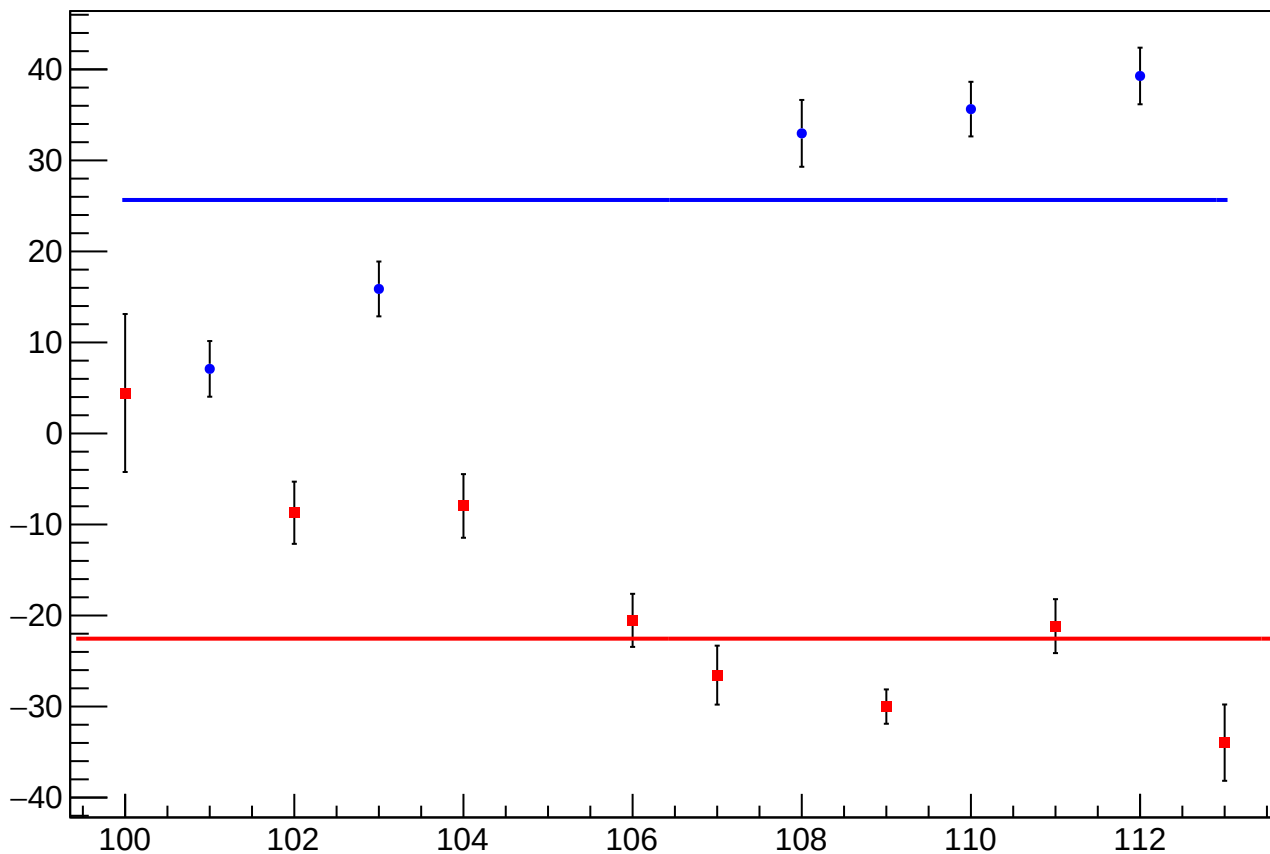
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1828.816 $\pm$ 0.537  $\chi^2$ /NDF: 30935.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i07X\_mean vs Slug



Right In: 25.653 $\pm$ 1.406  $\chi^2$ /NDF: 81.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -22.543 $\pm$ 1.087  $\chi^2$ /NDF: 68.8/7

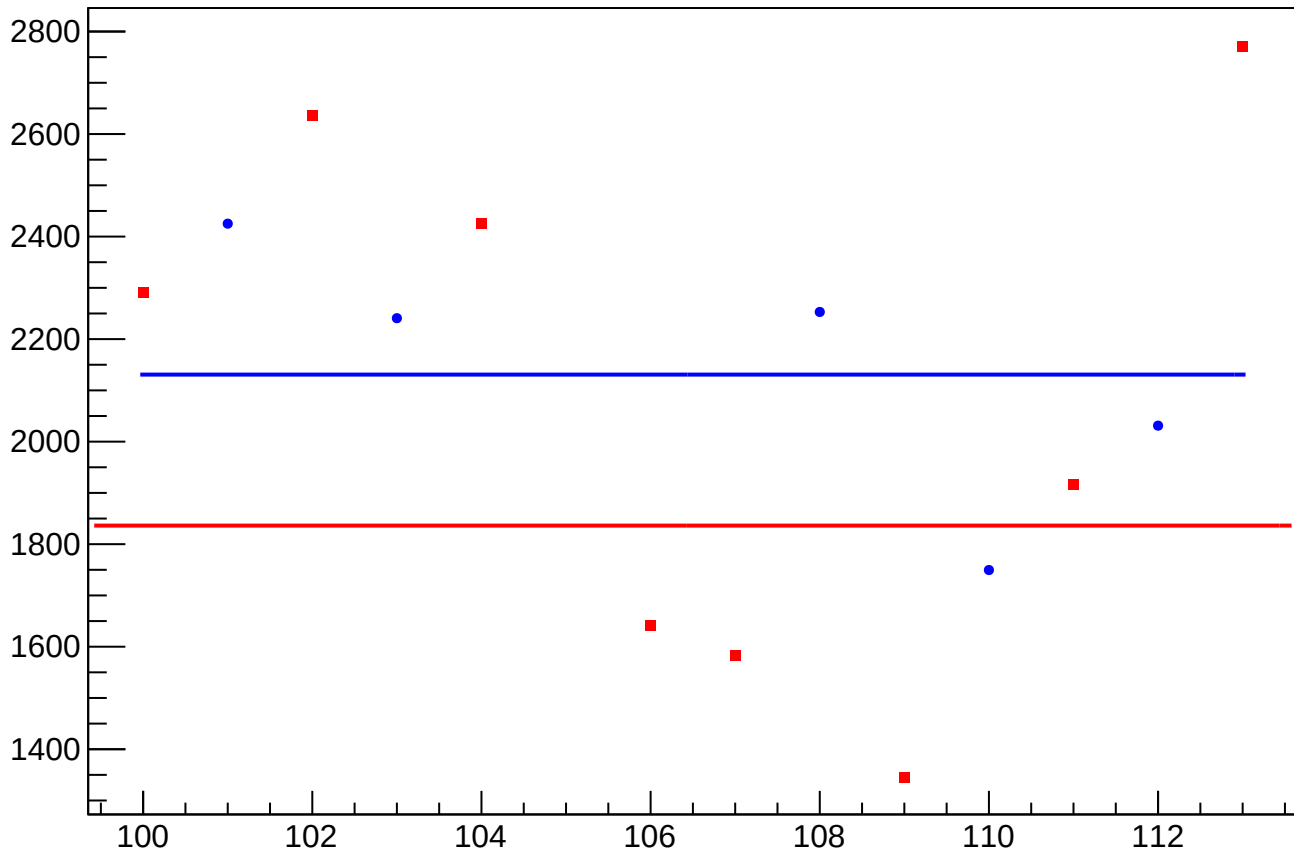
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -4.502 $\pm$ 0.860  $\chi^2$ /NDF: 885.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i07X\_rms vs Slug



Right In: 2130.793 $\pm$ 0.994  $\chi^2$ /NDF: 57769.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1836.263 $\pm$ 0.769  $\chi^2$ /NDF: 429100.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

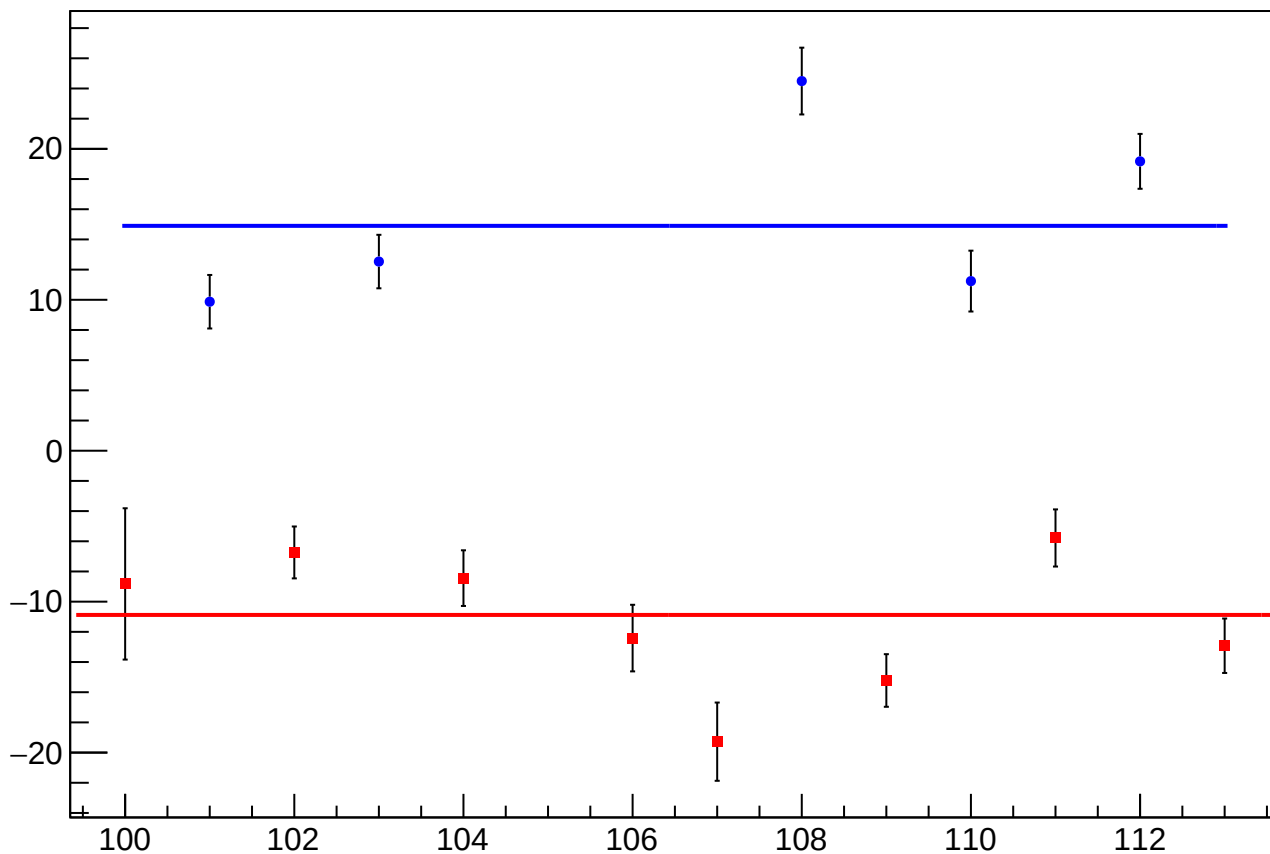
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1946.516 $\pm$ 0.608  $\chi^2$ /NDF: 541791.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm0i07Y\_mean vs Slug



Right In: 14.899+/-0.848  $\chi^2/\text{NDF}$ : 37.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10.880+/-0.718  $\chi^2/\text{NDF}$ : 33.4/7

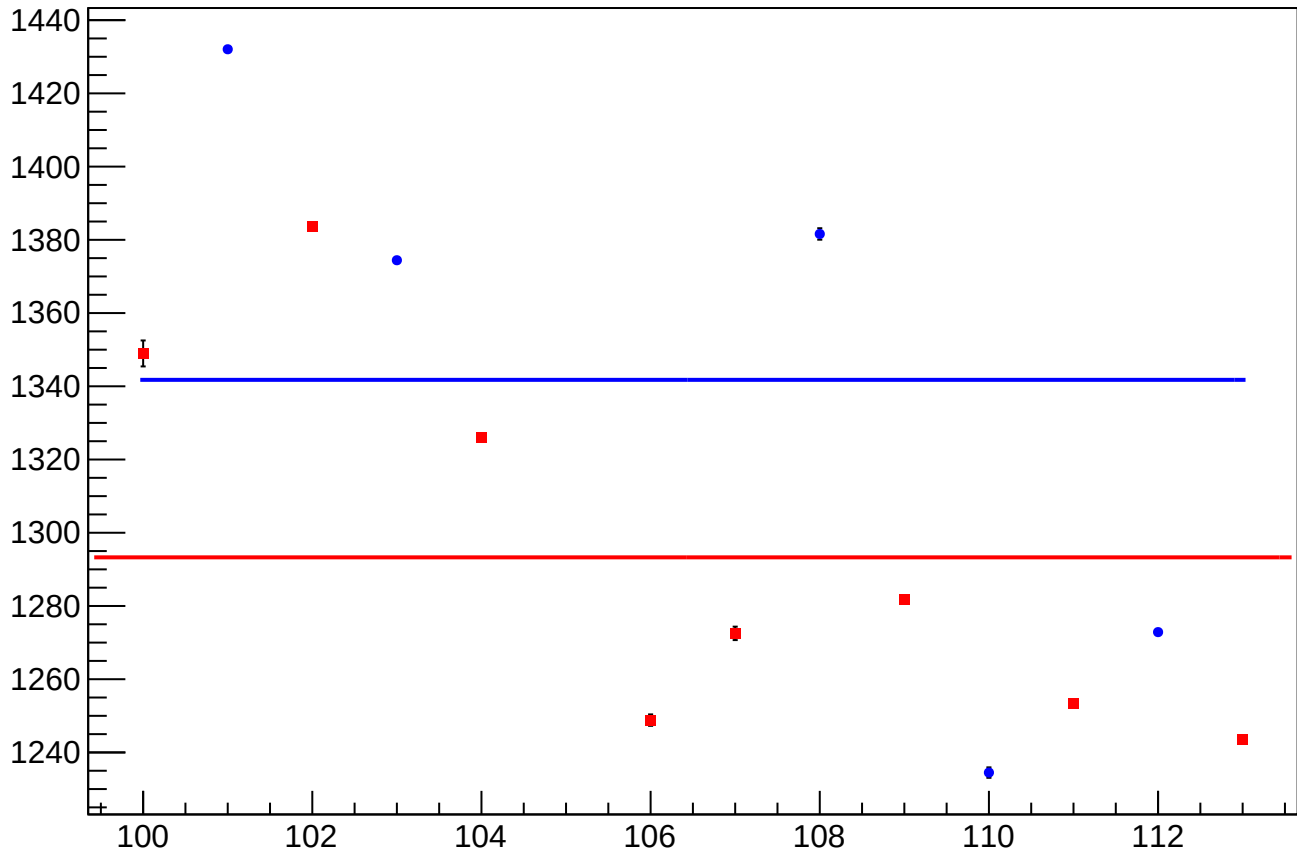
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.128+/-0.548  $\chi^2/\text{NDF}$ : 609.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i07Y\_rms vs Slug



Right In: 1341.761+/-0.600  $\chi^2/\text{NDF}$ : 15047.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1293.282+/-0.507  $\chi^2/\text{NDF}$ : 9833.3/7

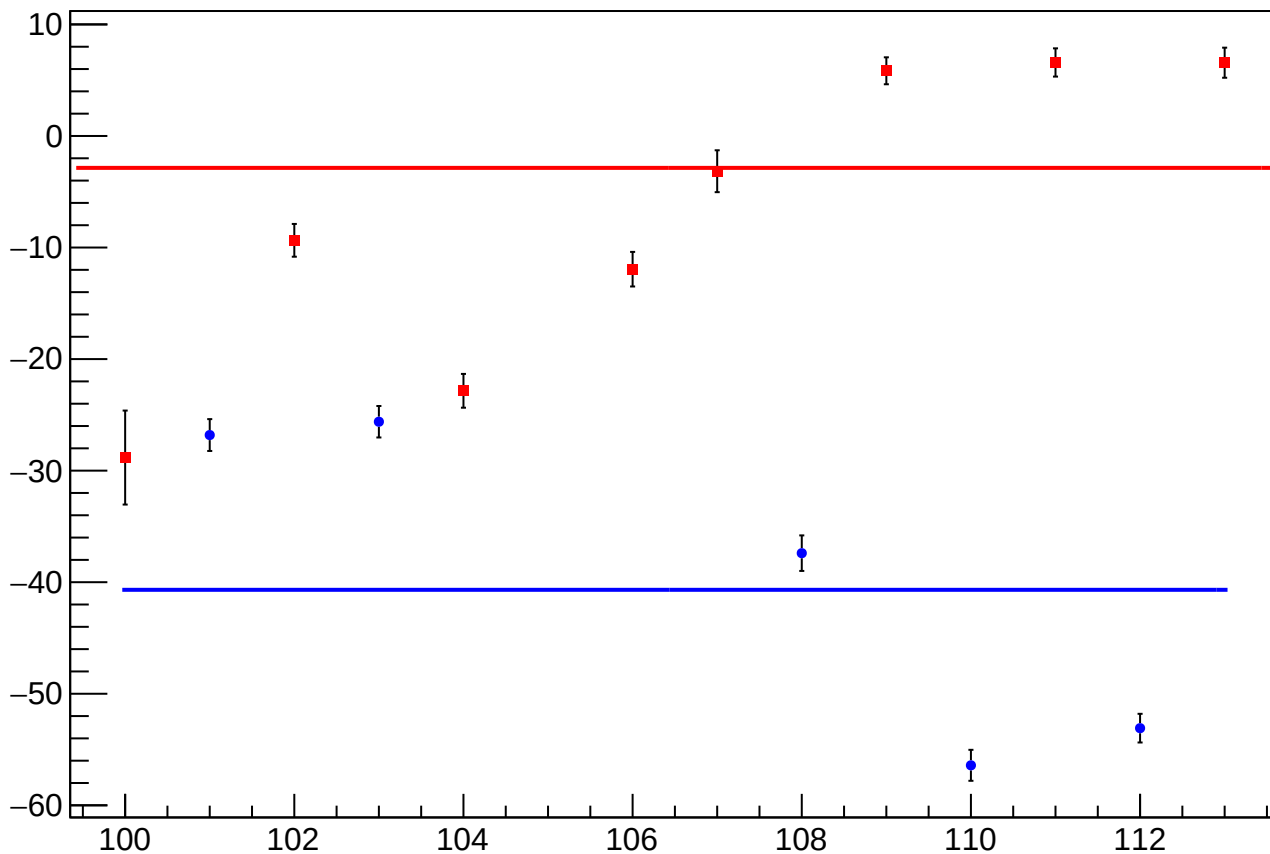
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1313.500+/-0.387  $\chi^2/\text{NDF}$ : 28688.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1i02X\_mean vs Slug



Right In:  $-40.683 \pm 0.631$   $\chi^2/\text{NDF}$ : 434.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.860 \pm 0.533$   $\chi^2/\text{NDF}$ : 422.5/7

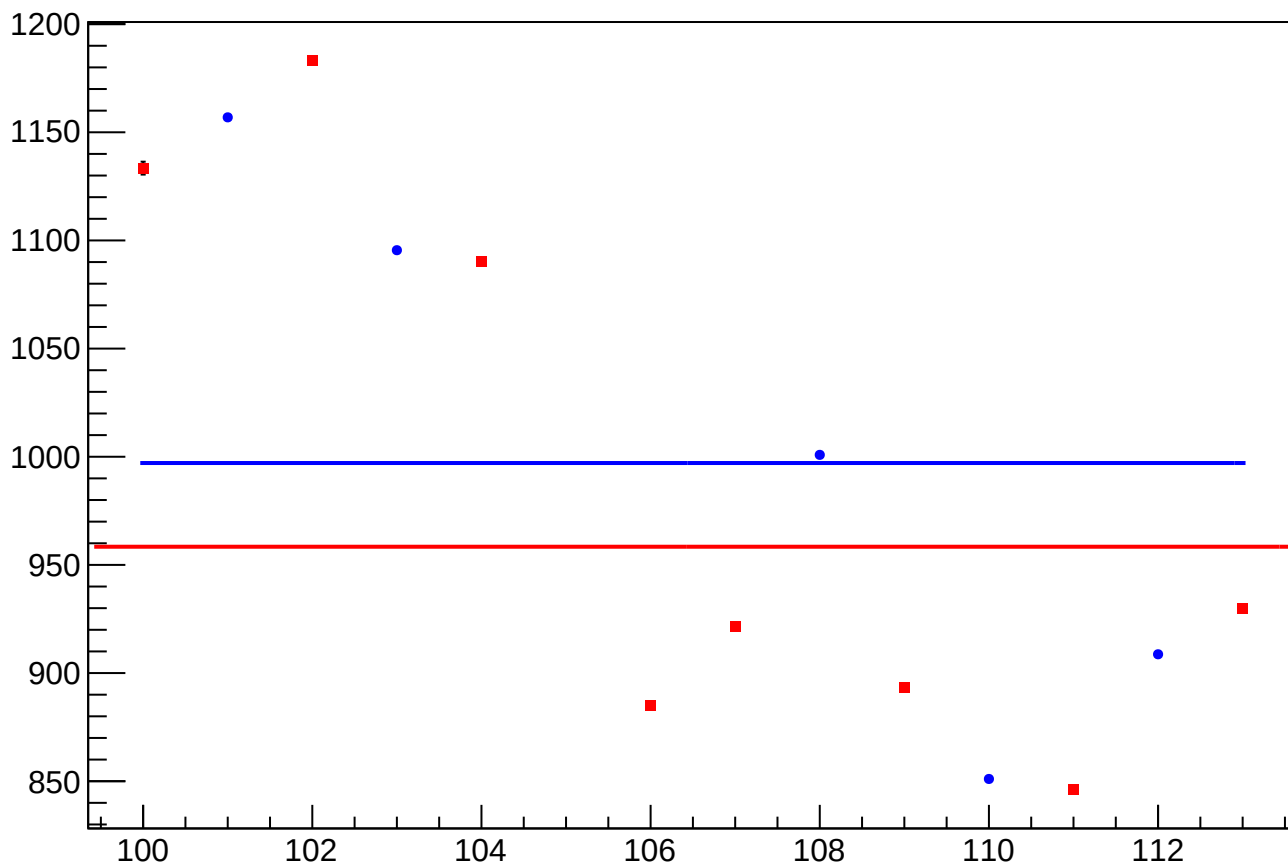
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-18.624 \pm 0.407$   $\chi^2/\text{NDF}$ : 2952.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1i02X\_rms vs Slug



Right In: 997.100 $\pm$ 0.446  $\chi^2$ /NDF: 66418.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 958.402 $\pm$ 0.377  $\chi^2$ /NDF: 93107.2/7

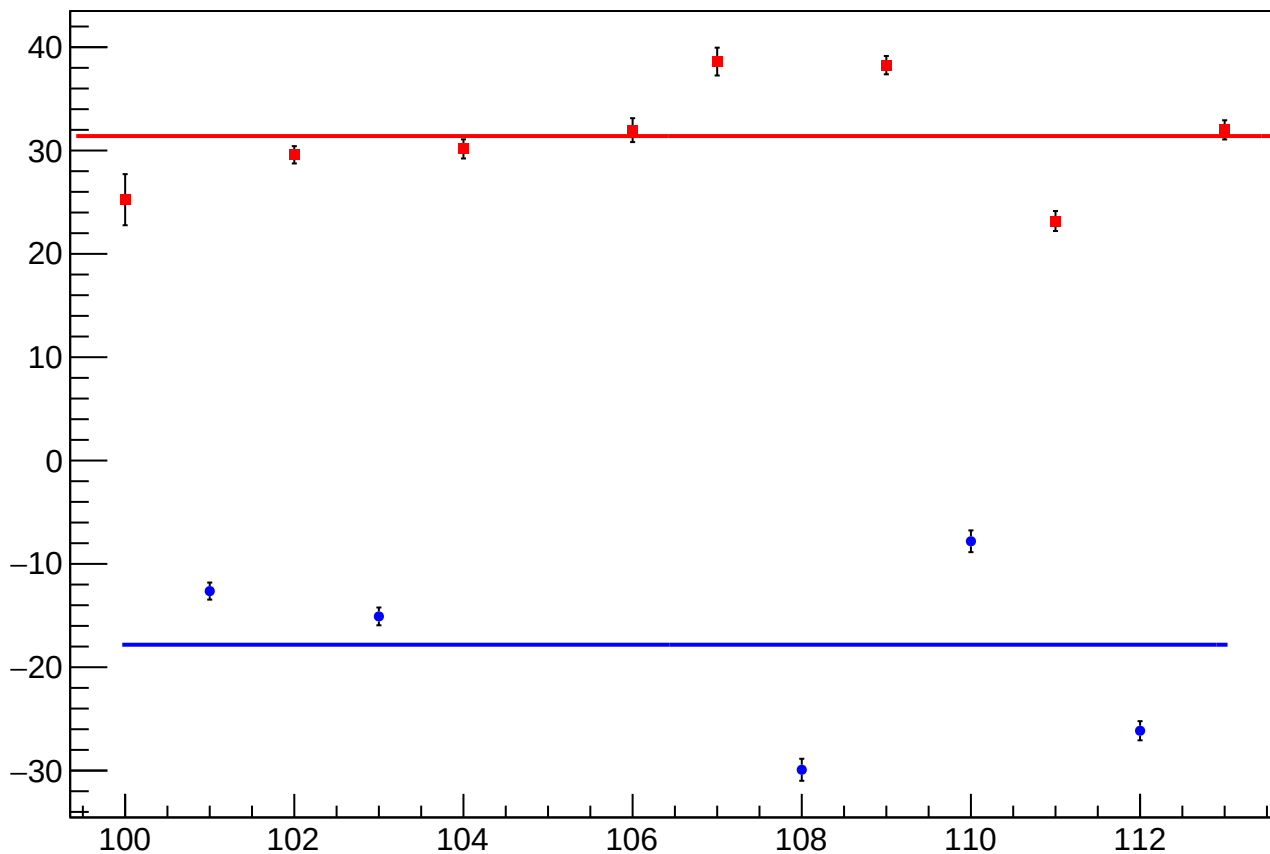
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 974.531 $\pm$ 0.288  $\chi^2$ /NDF: 163913.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i02Y\_mean vs Slug



Right In:  $-17.822 \pm 0.417$   $\chi^2/\text{NDF}$ : 349.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $31.400 \pm 0.364$   $\chi^2/\text{NDF}$ : 174.2/7

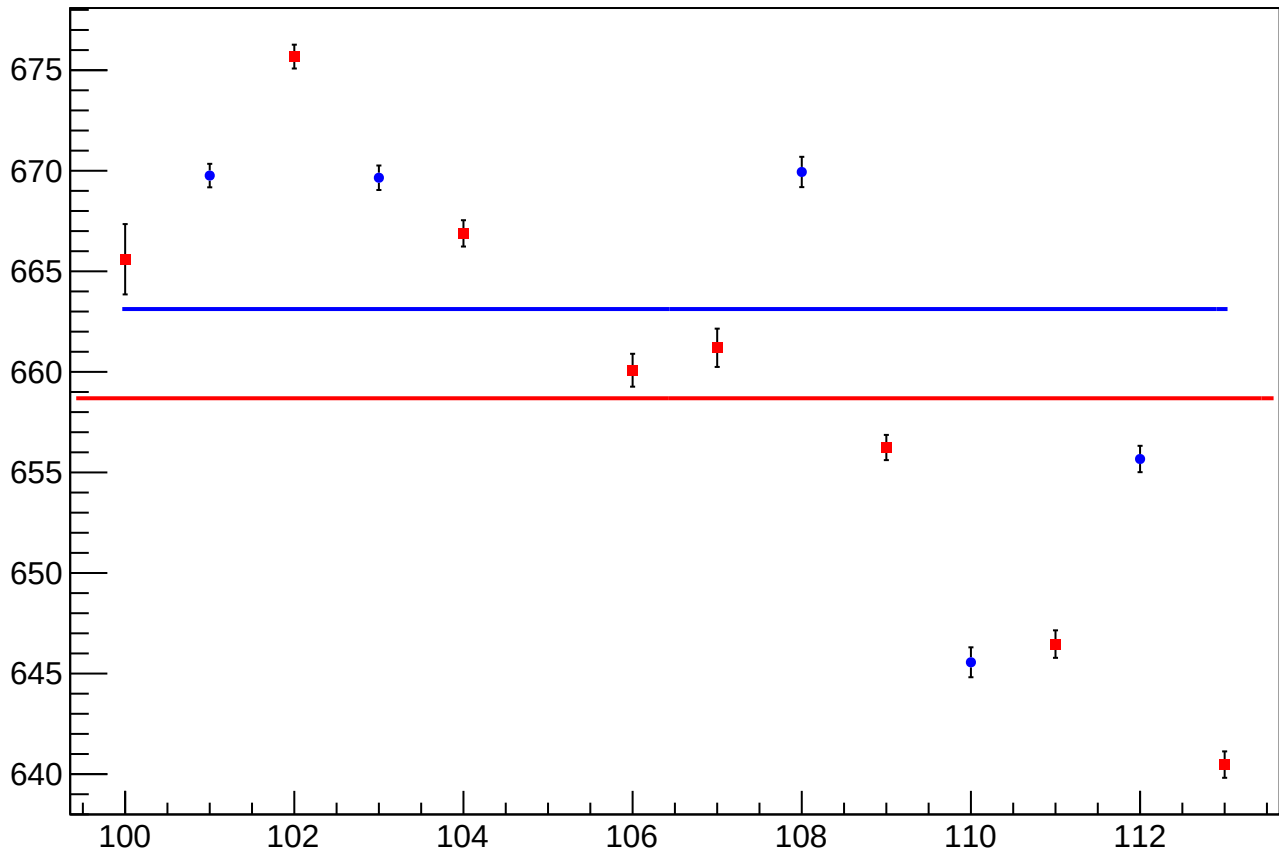
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $10.099 \pm 0.274$   $\chi^2/\text{NDF}$ : 8445.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1i02Y\_rms vs Slug



Right In: 663.124 $\pm$ 0.295  $\chi^2$ /NDF: 1012.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 658.688 $\pm$ 0.257  $\chi^2$ /NDF: 2108.5/7

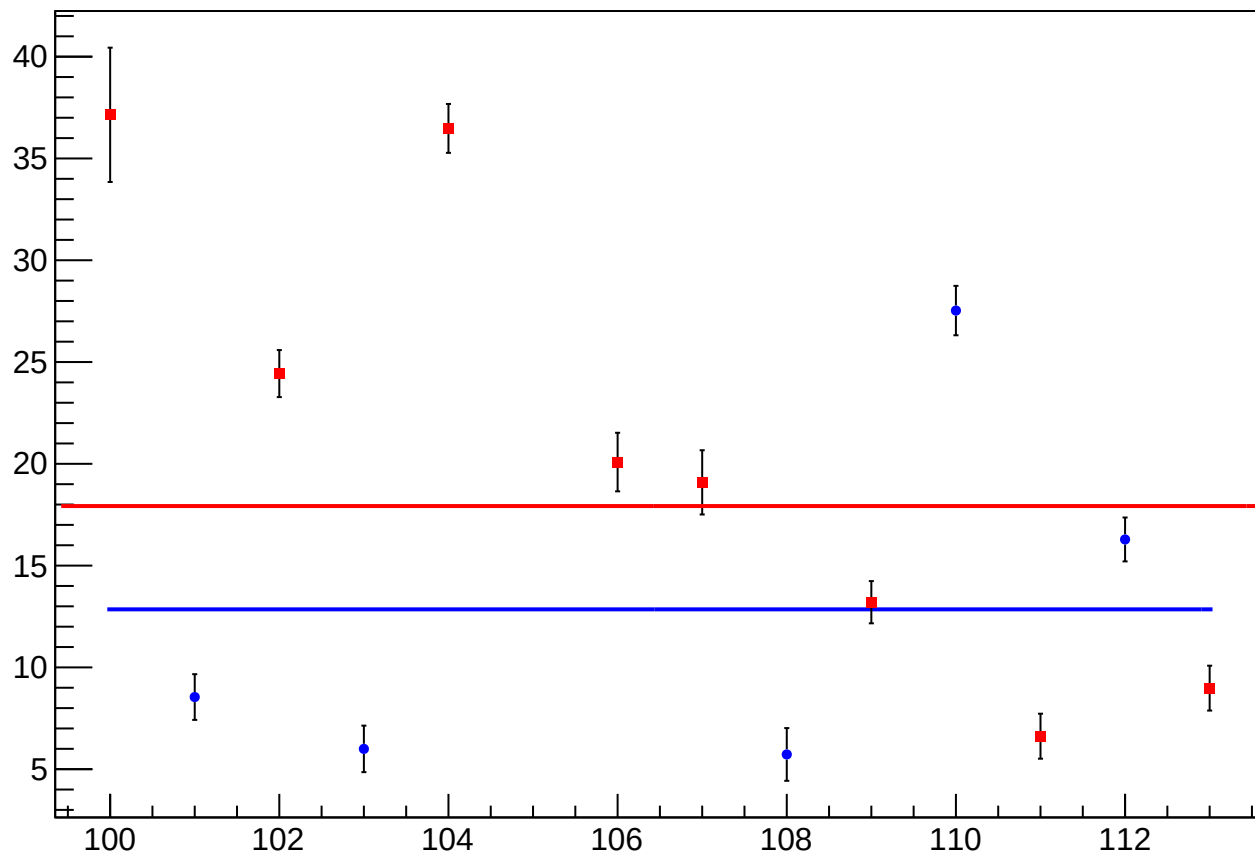
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 660.608 $\pm$ 0.194  $\chi^2$ /NDF: 3249.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

diff\_bpm1i04X\_mean vs Slug



Right In: 12.851 $\pm$ 0.520  $\chi^2$ /NDF: 237.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.925 $\pm$ 0.448  $\chi^2$ /NDF: 498.4/7

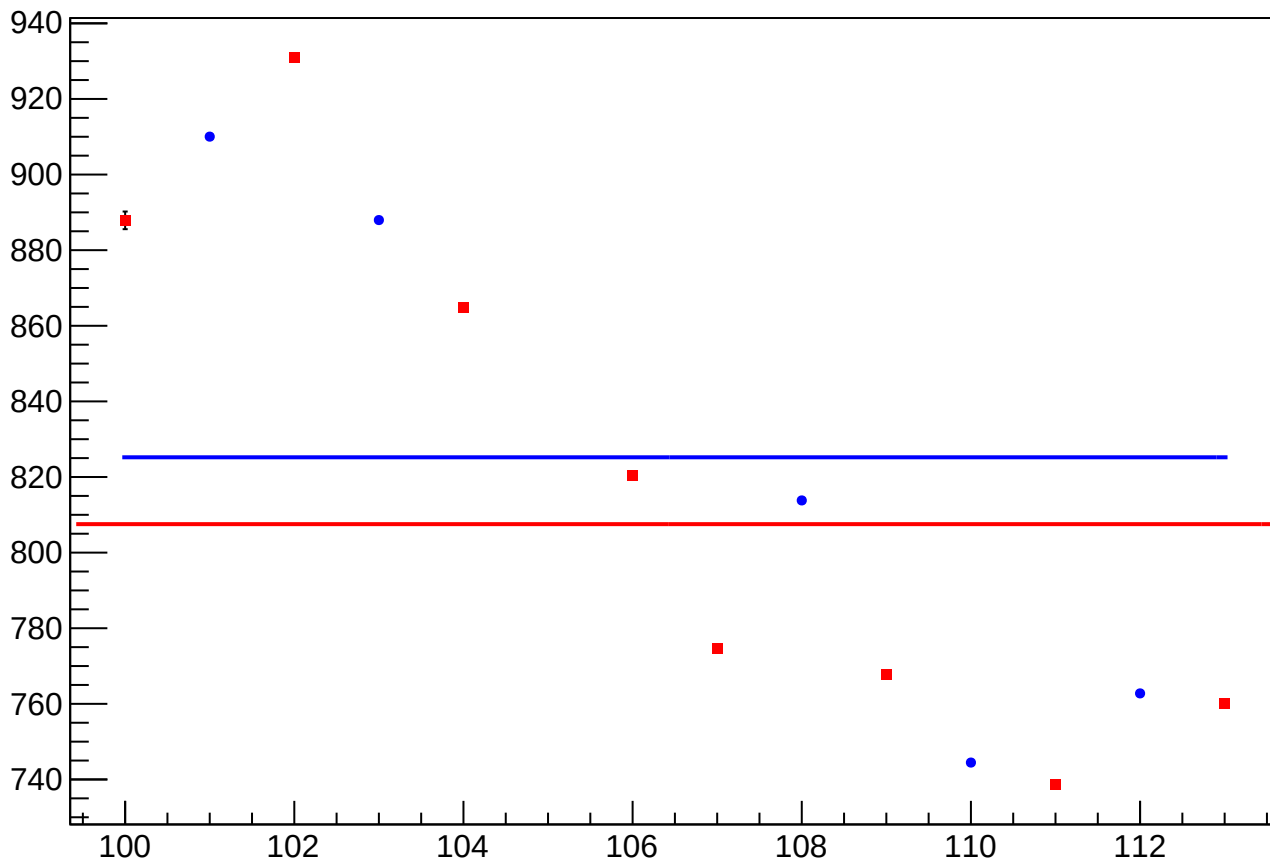
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 15.767 $\pm$ 0.339  $\chi^2$ /NDF: 790.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i04X\_rms vs Slug



Right In: 825.214 $\pm$ 0.368  $\chi^2$ /NDF: 33167.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 807.533 $\pm$ 0.317  $\chi^2$ /NDF: 43985.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

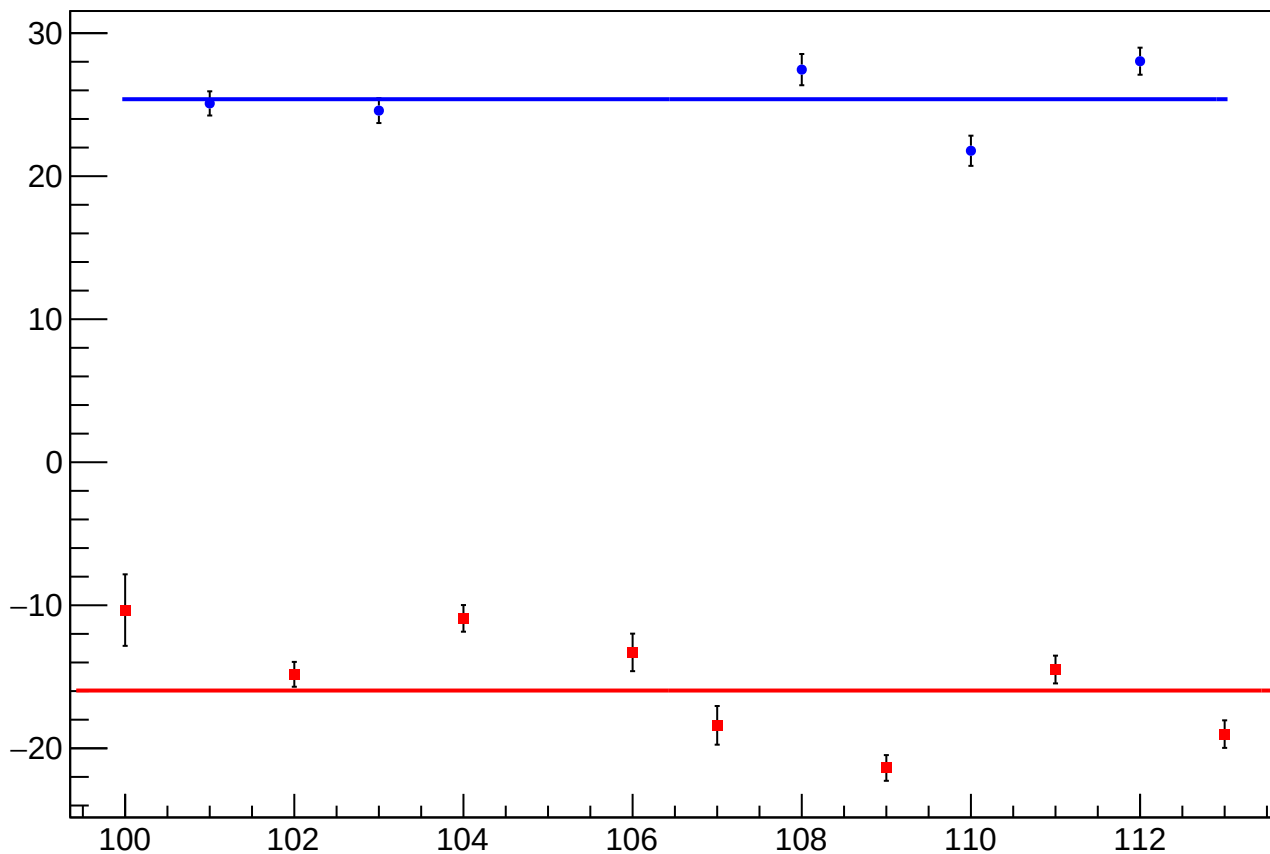
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 815.055 $\pm$ 0.240  $\chi^2$ /NDF: 78480.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm1i04Y\_mean vs Slug



Right In: 25.382 $\pm$ 0.423  $\chi^2$ /NDF: 24.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -15.961 $\pm$ 0.374  $\chi^2$ /NDF: 92.0/7

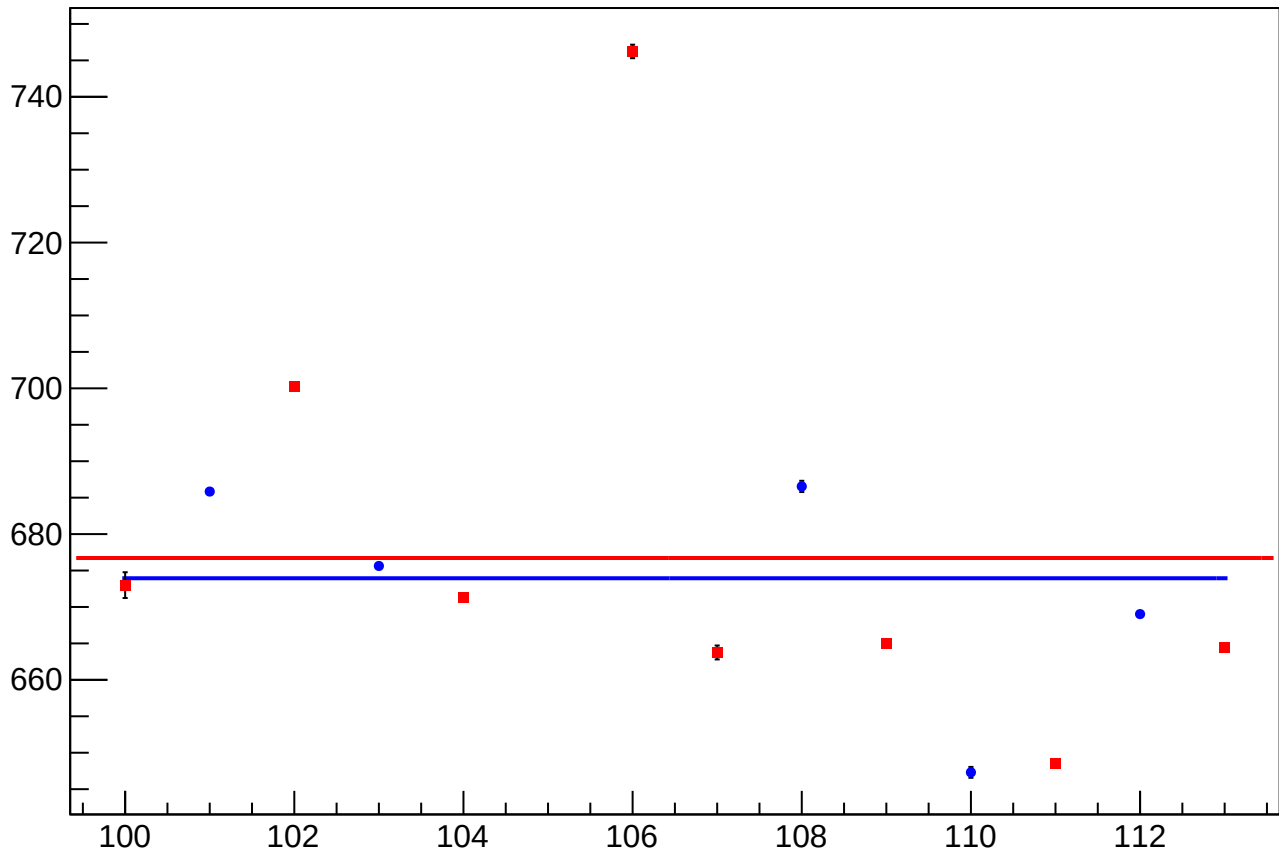
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.165 $\pm$ 0.280  $\chi^2$ /NDF: 5468.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i04Y\_rms vs Slug



Right In: 673.942 $\pm$ 0.299  $\chi^2$ /NDF: 1997.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 676.720 $\pm$ 0.265  $\chi^2$ /NDF: 9696.3/7

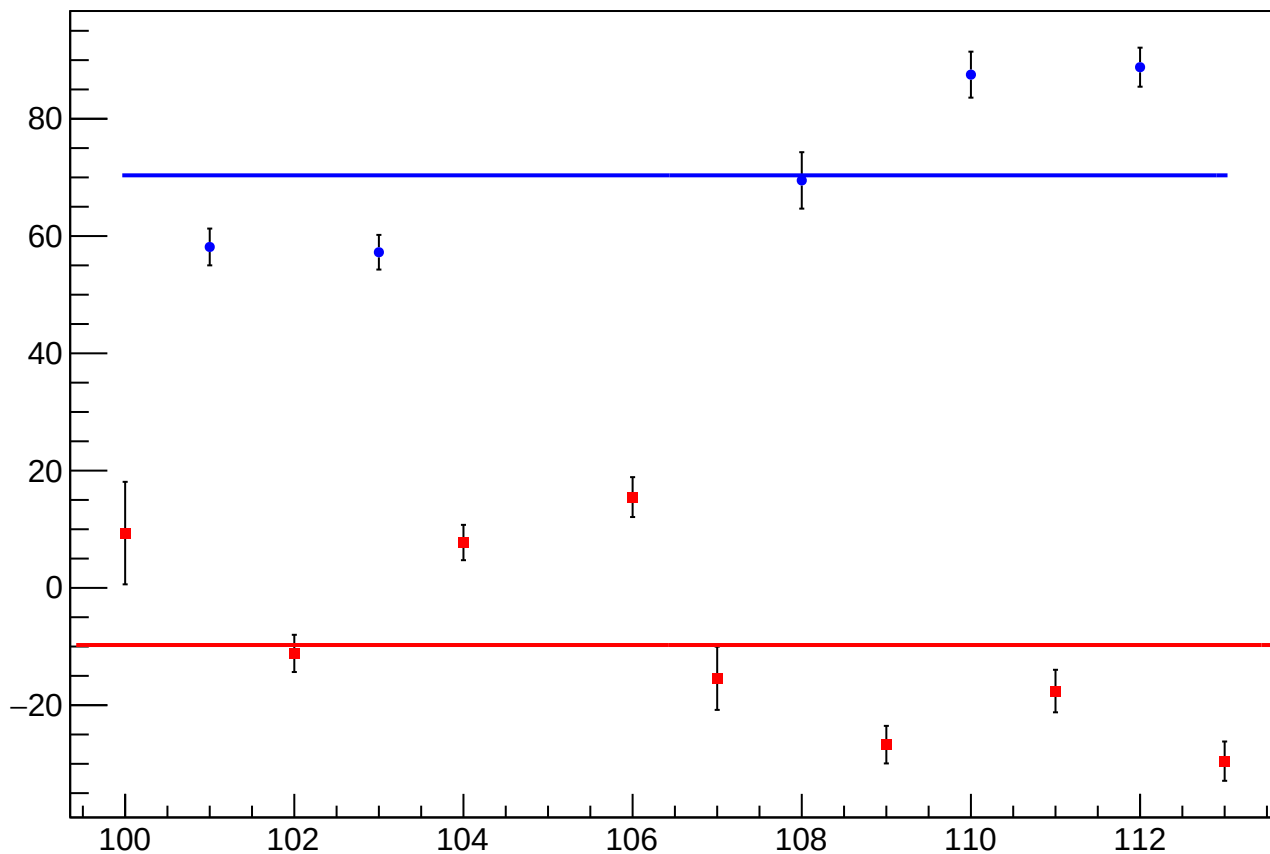
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 675.502 $\pm$ 0.198  $\chi^2$ /NDF: 11742.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i06X\_mean vs Slug



Right In: 70.354+/-1.553  $\chi^2$ /NDF: 84.8/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -9.740+/-1.285  $\chi^2$ /NDF: 162.5/7

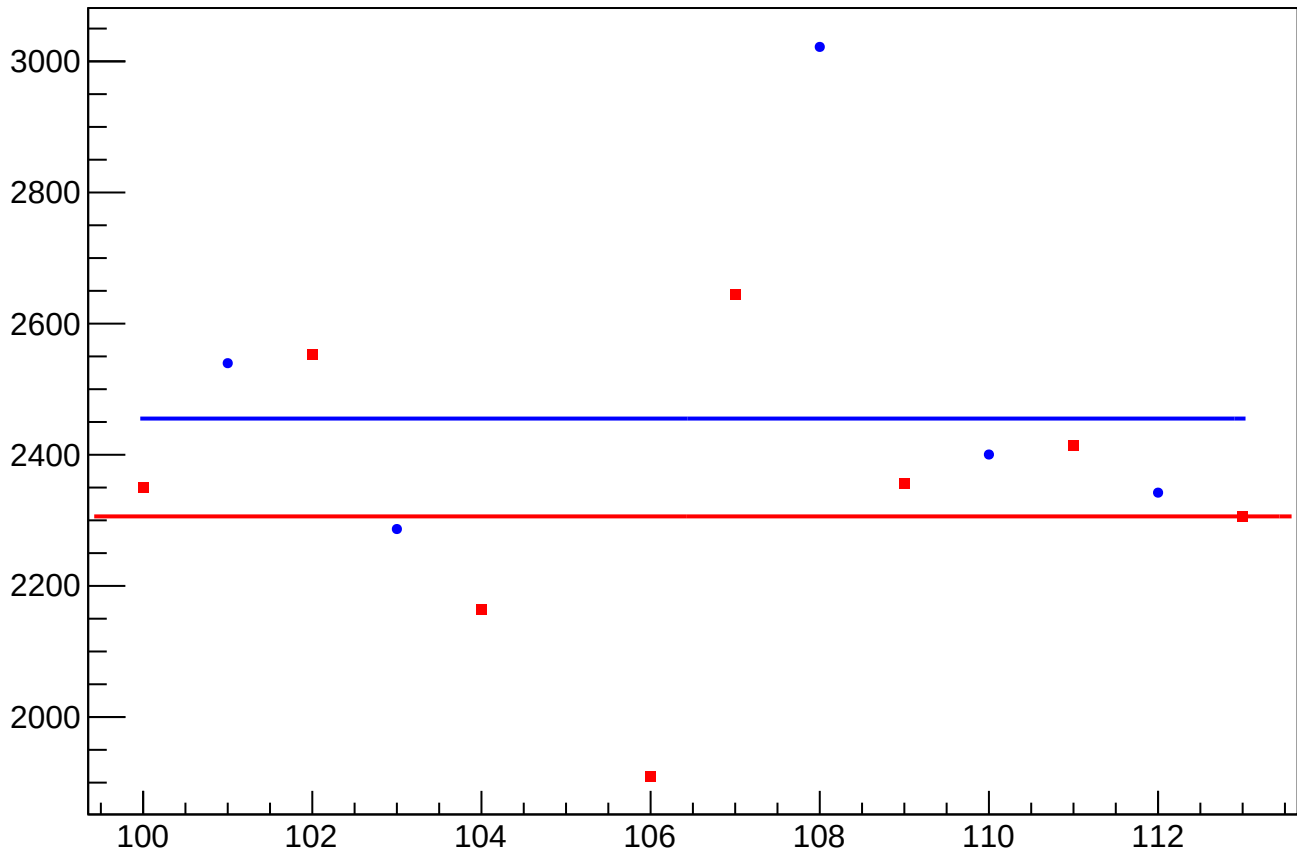
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 22.802+/-0.990  $\chi^2$ /NDF: 1826.7/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i06X\_rms vs Slug



Right In: 2455.227+/-1.098  $\chi^2/\text{NDF}$ : 38386.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2306.015+/-0.908  $\chi^2/\text{NDF}$ : 53974.5/7

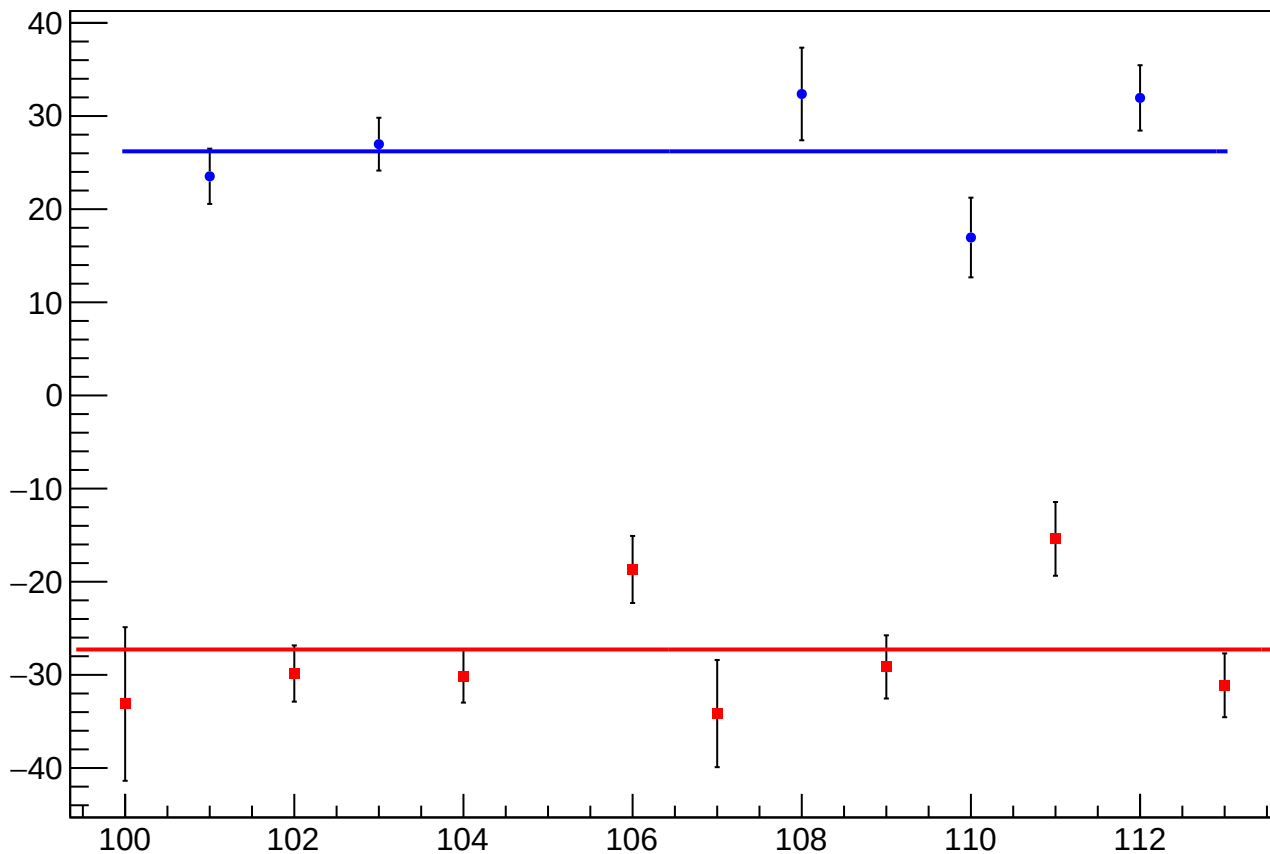
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2366.640+/-0.700  $\chi^2/\text{NDF}$ : 103324.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

diff\_bpm1i06Y\_mean vs Slug



Right In: 26.209 $\pm$ 1.554  $\chi^2$ /NDF: 9.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -27.275 $\pm$ 1.300  $\chi^2$ /NDF: 19.9/7

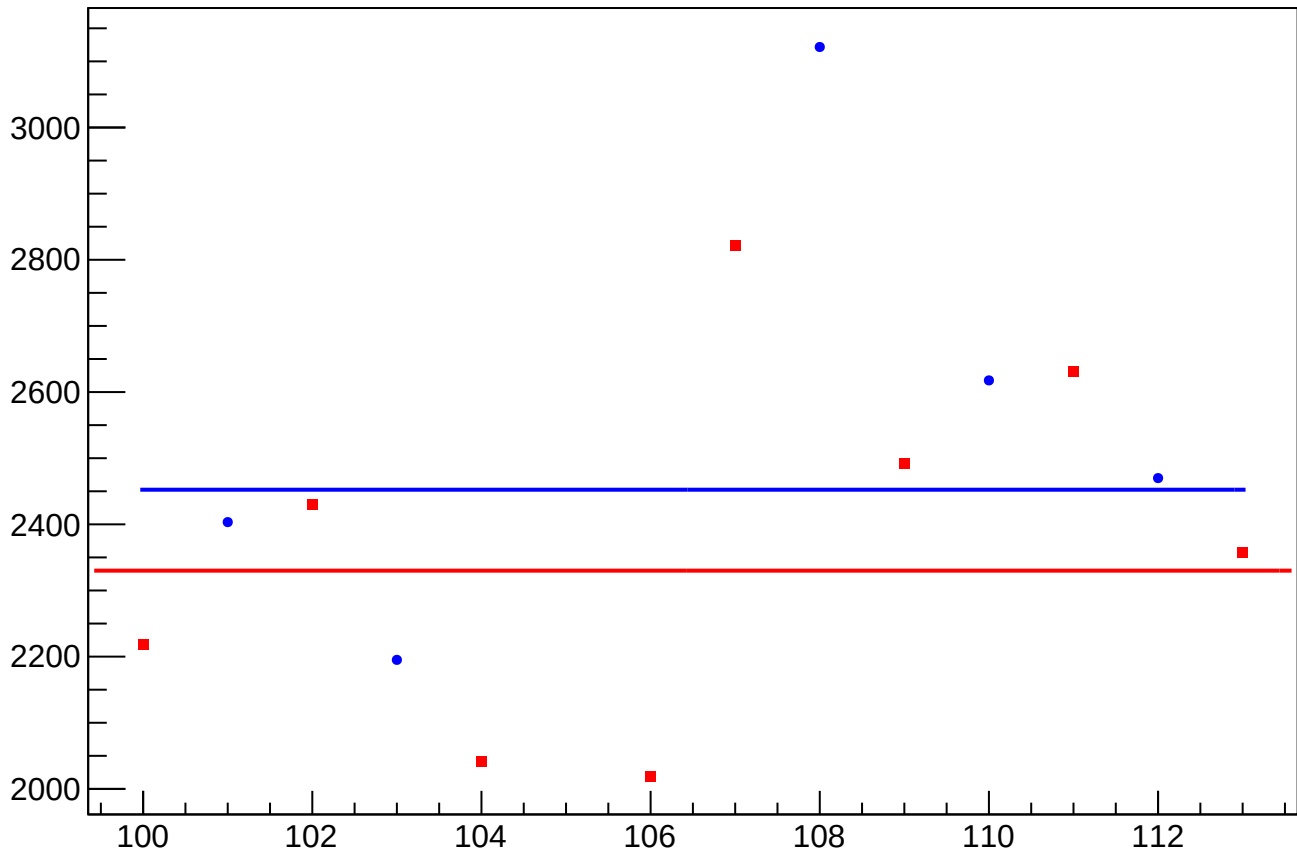
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -5.248 $\pm$ 0.997  $\chi^2$ /NDF: 726.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i06Y\_rms vs Slug



Right In: 2452.365+/-1.099  $\chi^2/\text{NDF}$ : 56286.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2329.995+/-0.919  $\chi^2/\text{NDF}$ : 69056.1/7

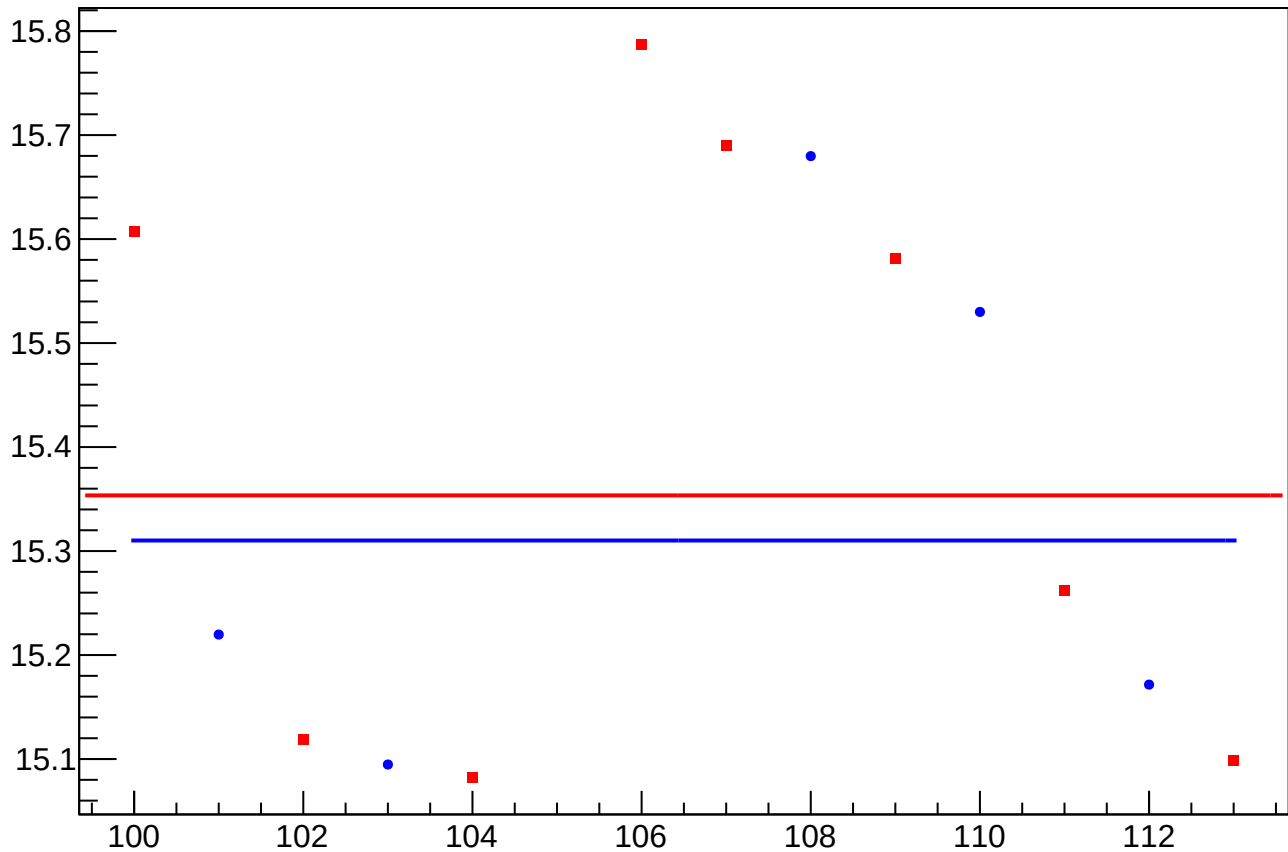
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2380.391+/-0.705  $\chi^2/\text{NDF}$ : 132637.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam1\_mean vs Slug



Right In: 15.310+/-0.000  $\chi^2/\text{NDF}$ : 195984407.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15.354+/-0.000  $\chi^2/\text{NDF}$ : 334467298.8/7

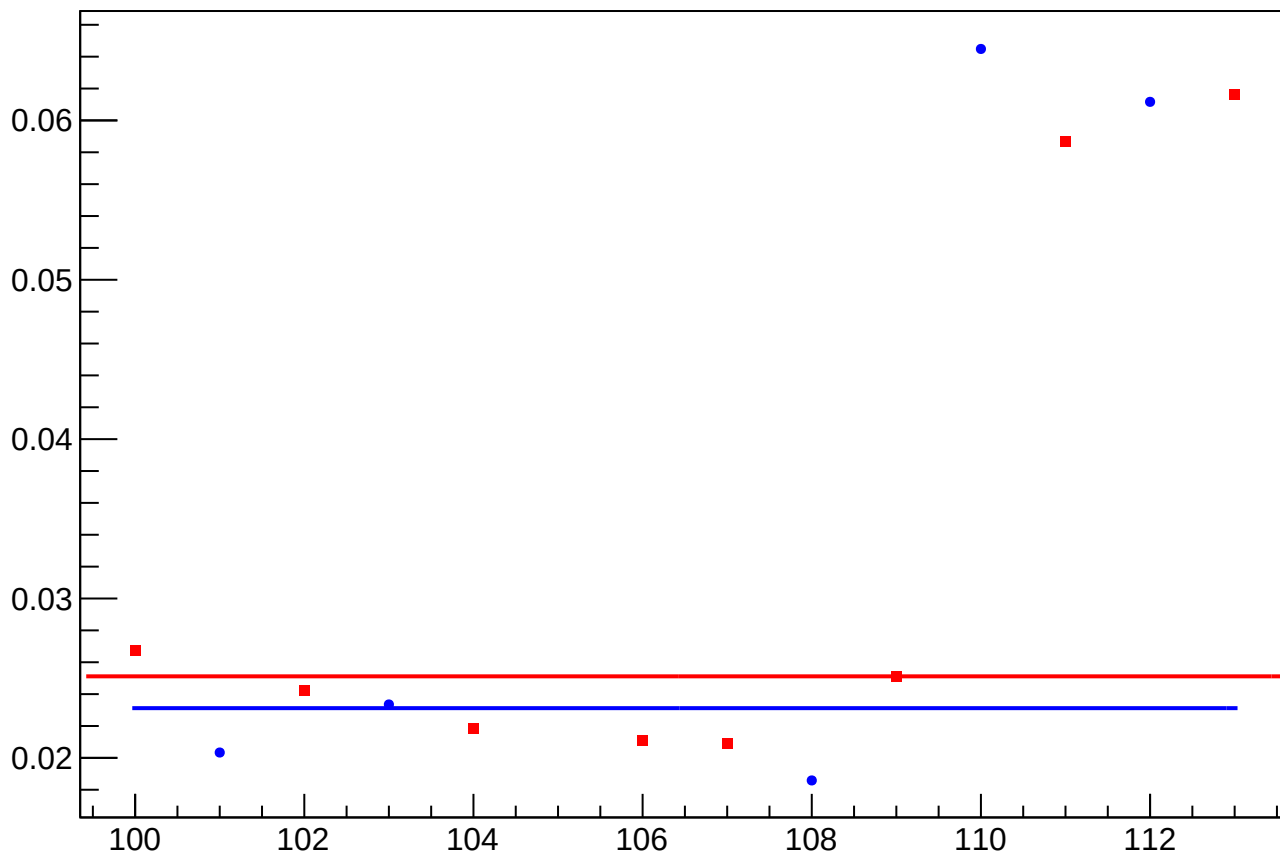
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15.333+/-0.000  $\chi^2/\text{NDF}$ : 534012467.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam1\_rms vs Slug



Right In: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 689690.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.025+/-0.000  $\chi^2/\text{NDF}$ : 643762.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

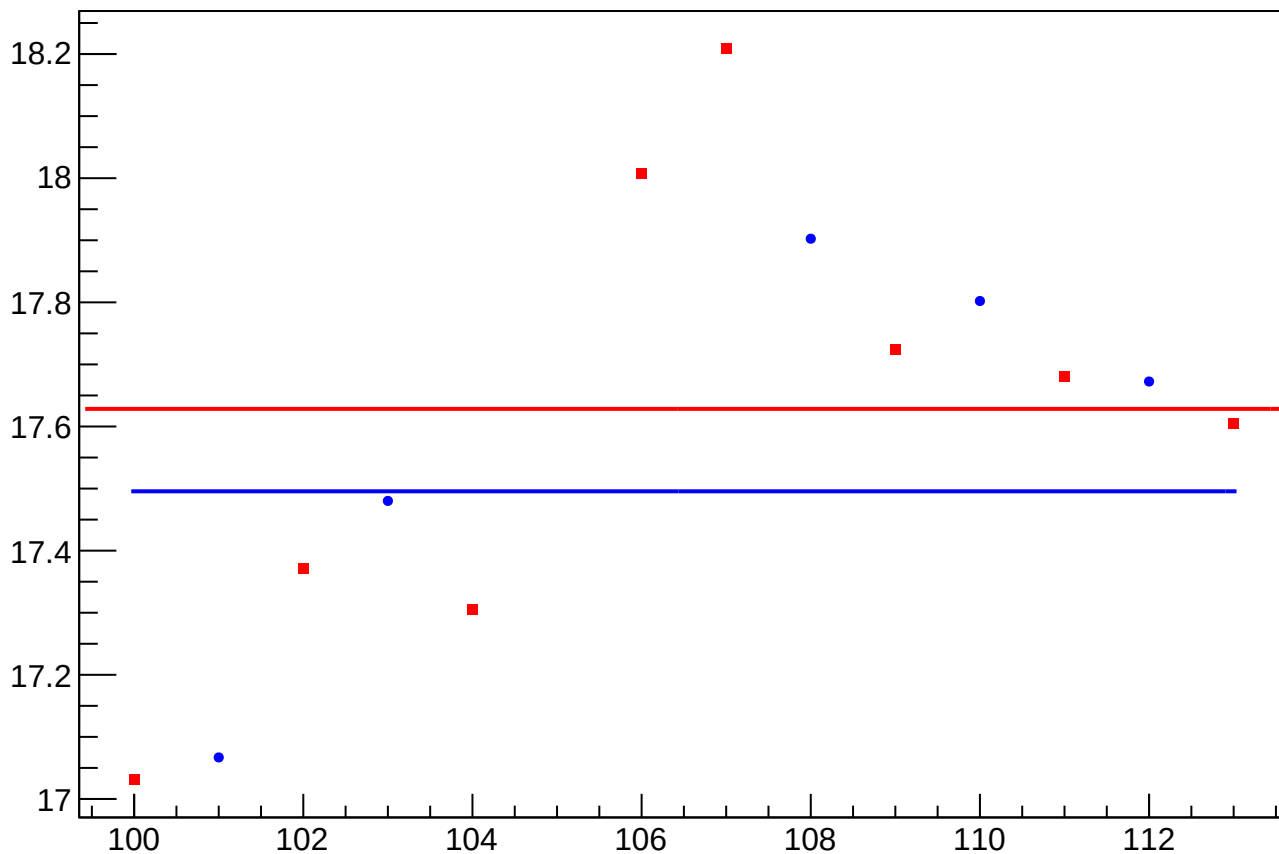
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 1348536.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_sam2\_mean vs Slug



Right In: 17.496+/-0.000  $\chi^2/\text{NDF}$ : 4386935.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.628+/-0.000  $\chi^2/\text{NDF}$ : 3131822.9/7

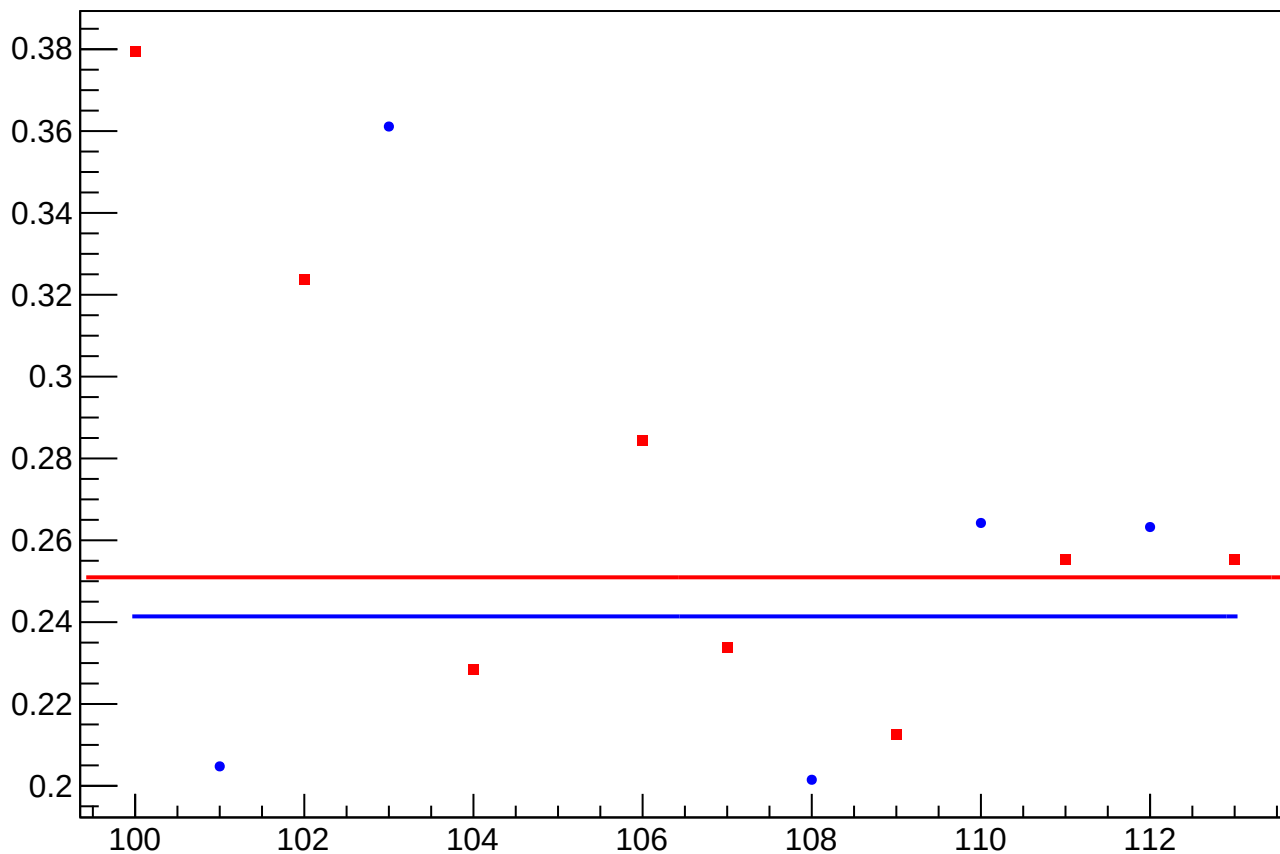
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.568+/-0.000  $\chi^2/\text{NDF}$ : 7874182.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam2\_rms vs Slug



Right In: 0.241+/-0.000  $\chi^2/\text{NDF}$ : 202453.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.251+/-0.000  $\chi^2/\text{NDF}$ : 123064.6/7

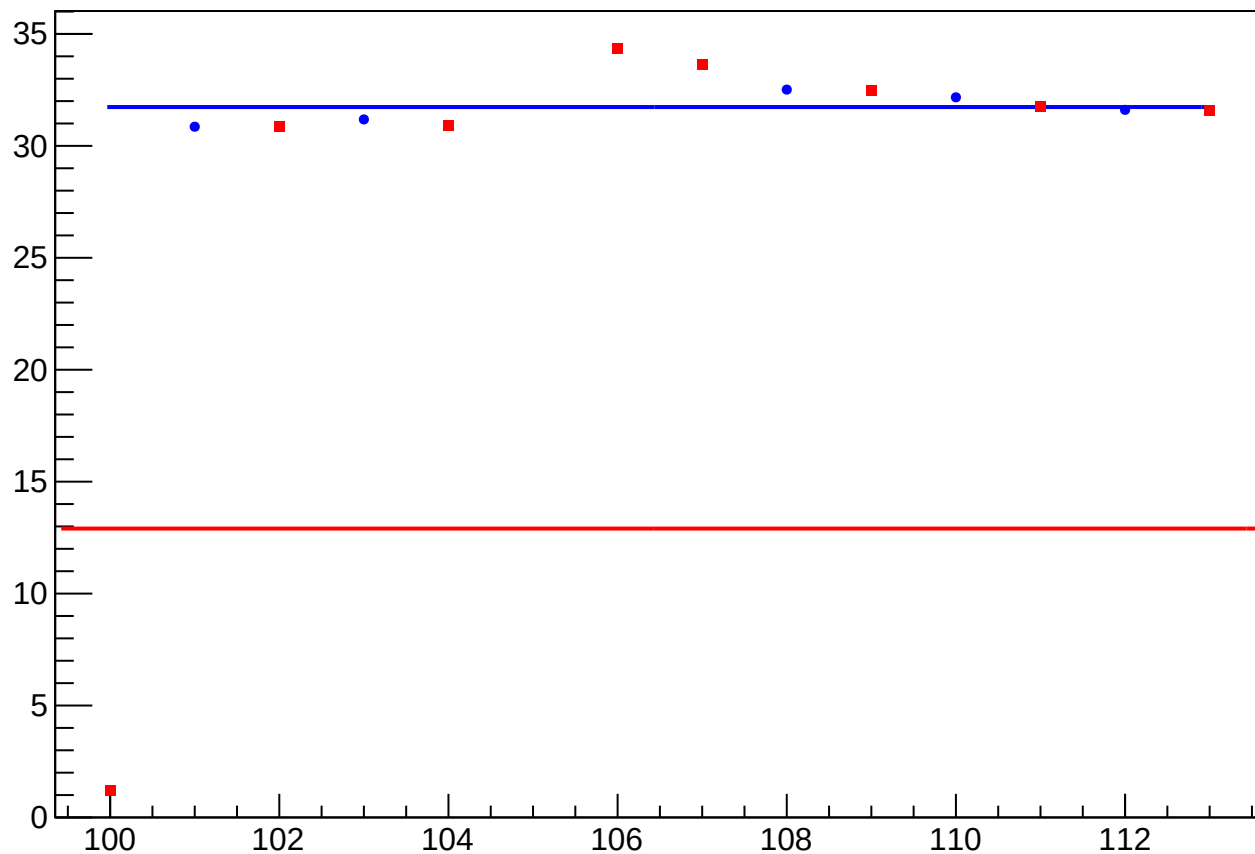
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.247+/-0.000  $\chi^2/\text{NDF}$ : 329193.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam3\_mean vs Slug



Right In: 31.735 $\pm$ 0.000  $\chi^2$ /NDF: 35400098.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

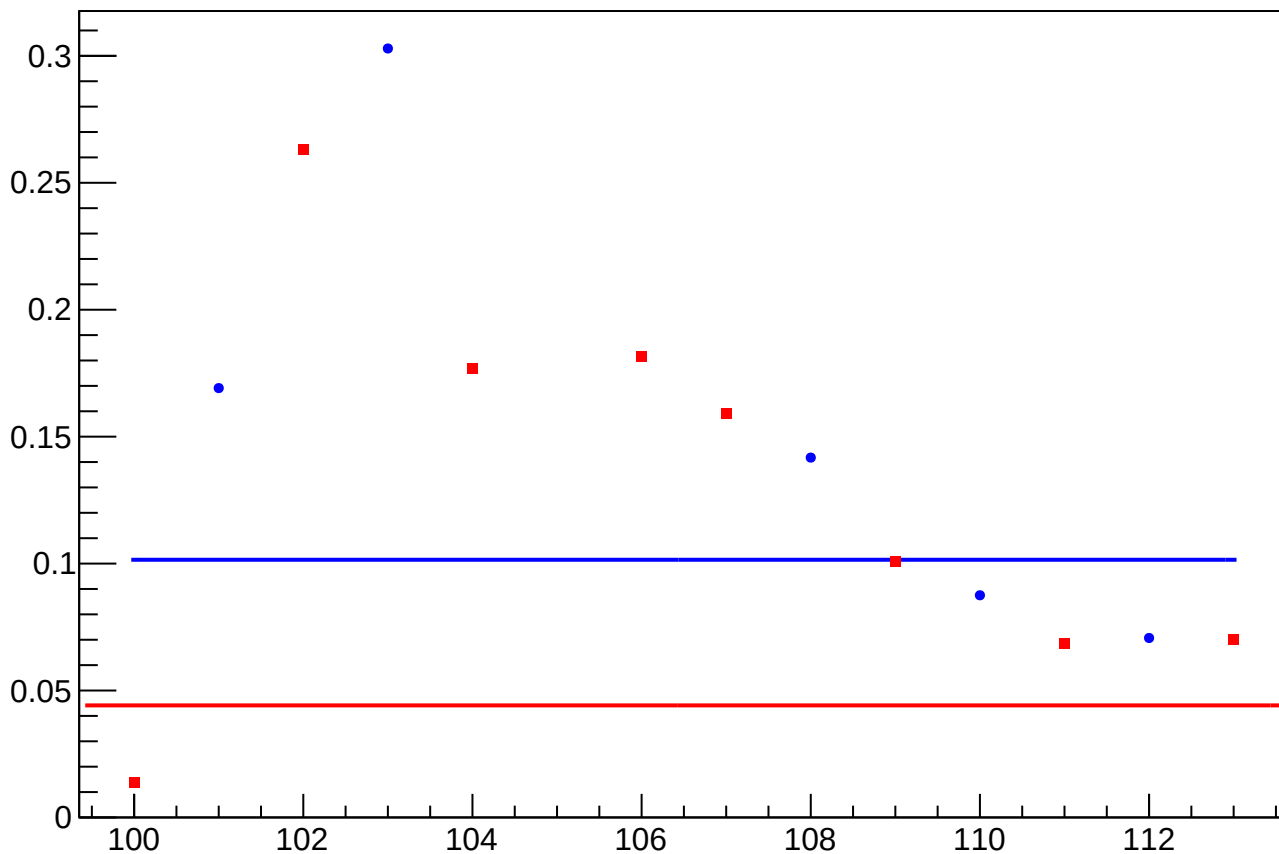
Right Out: 12.905 $\pm$ 0.000  $\chi^2$ /NDF: 140421437757.3/7

All: 16.854 $\pm$ 0.000  $\chi^2$ /NDF: 187400274826.

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

# yield\_sam3\_rms vs Slug



Right In: 0.102 $\pm$ 0.000  $\chi^2$ /NDF: 915388.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.044 $\pm$ 0.000  $\chi^2$ /NDF: 2917829.3/7

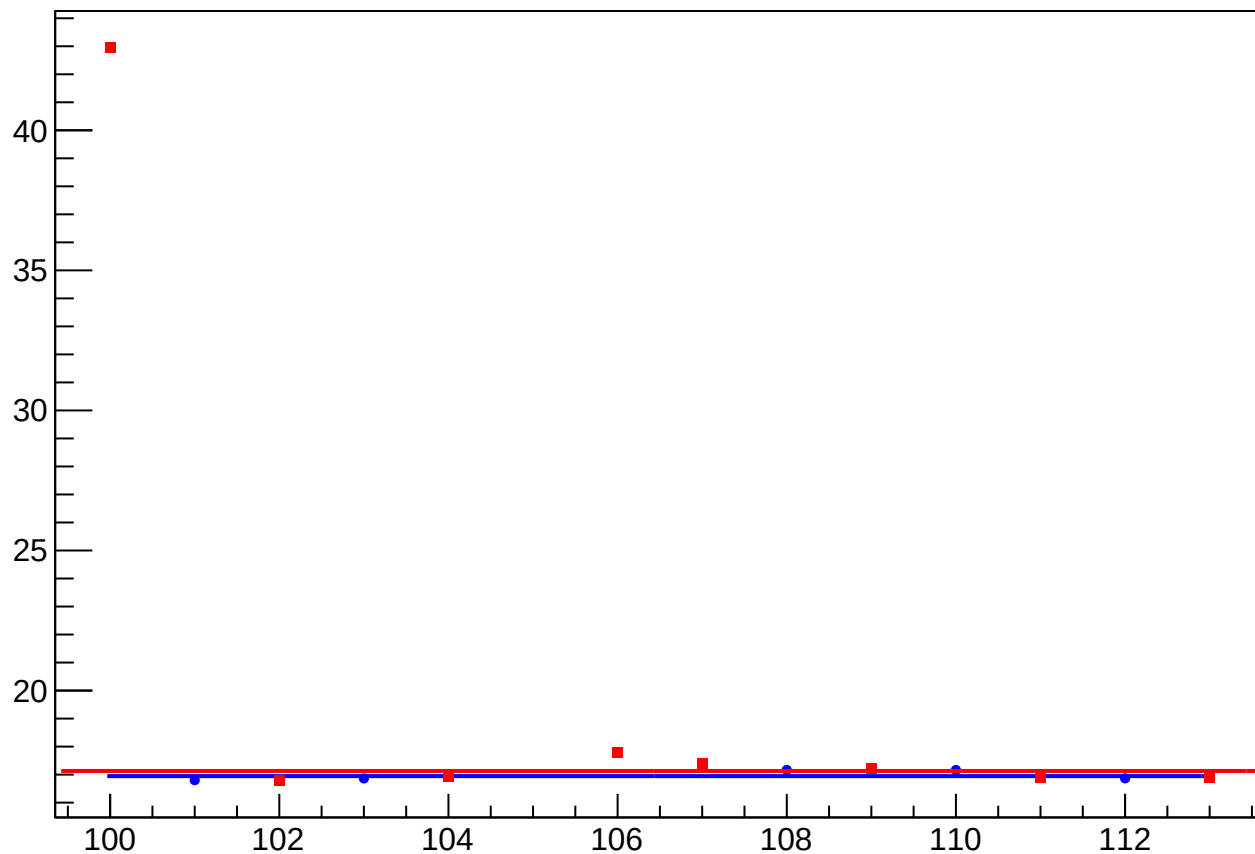
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.056 $\pm$ 0.000  $\chi^2$ /NDF: 4704677.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

yield\_sam4\_mean vs Slug



Right In: 16.946 $\pm$ 0.000  $\chi^2$ /NDF: 4257835.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.130 $\pm$ 0.000  $\chi^2$ /NDF: 259030839.8/7

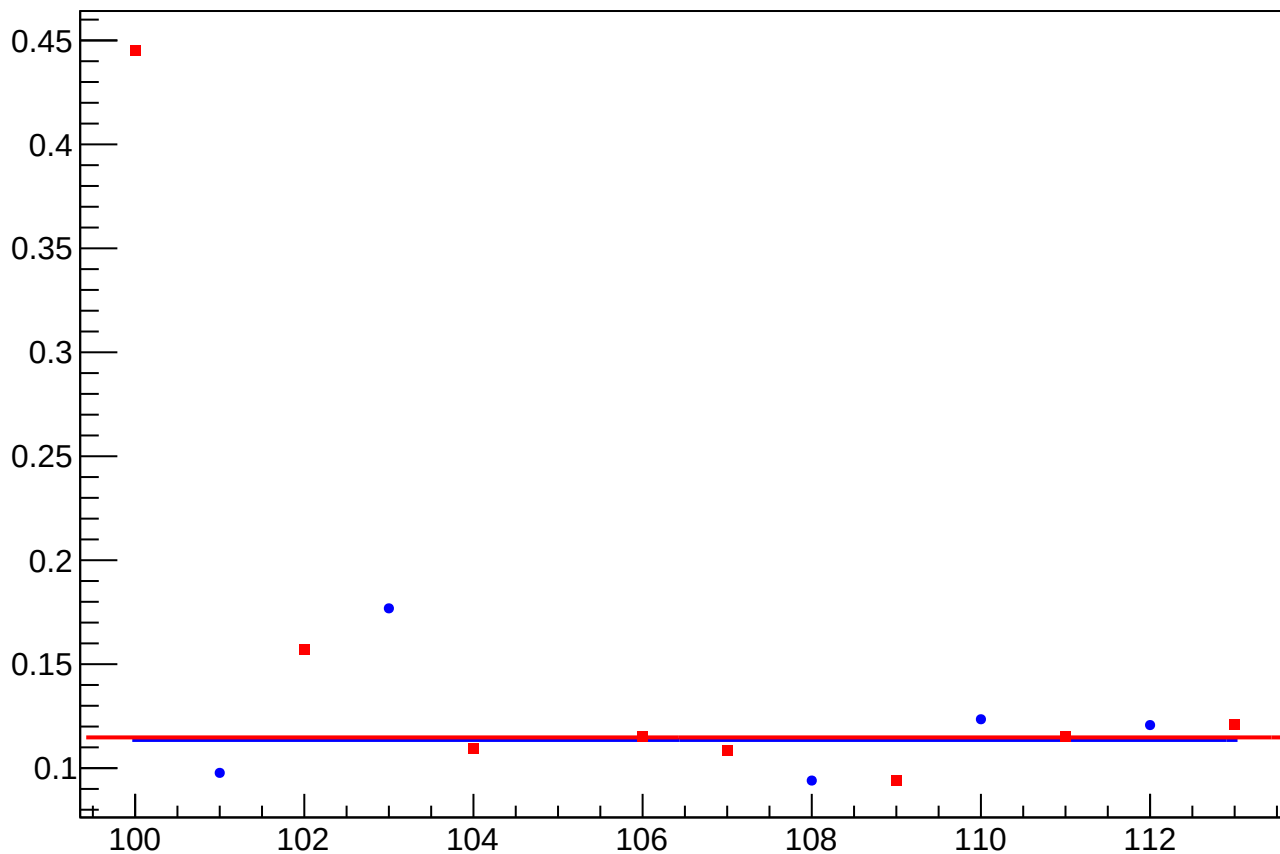
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.048 $\pm$ 0.000  $\chi^2$ /NDF: 266381997.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_sam4\_rms vs Slug



Right In: 0.114+/-0.000  $\chi^2/\text{NDF}$ : 214140.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.115+/-0.000  $\chi^2/\text{NDF}$ : 210190.4/7

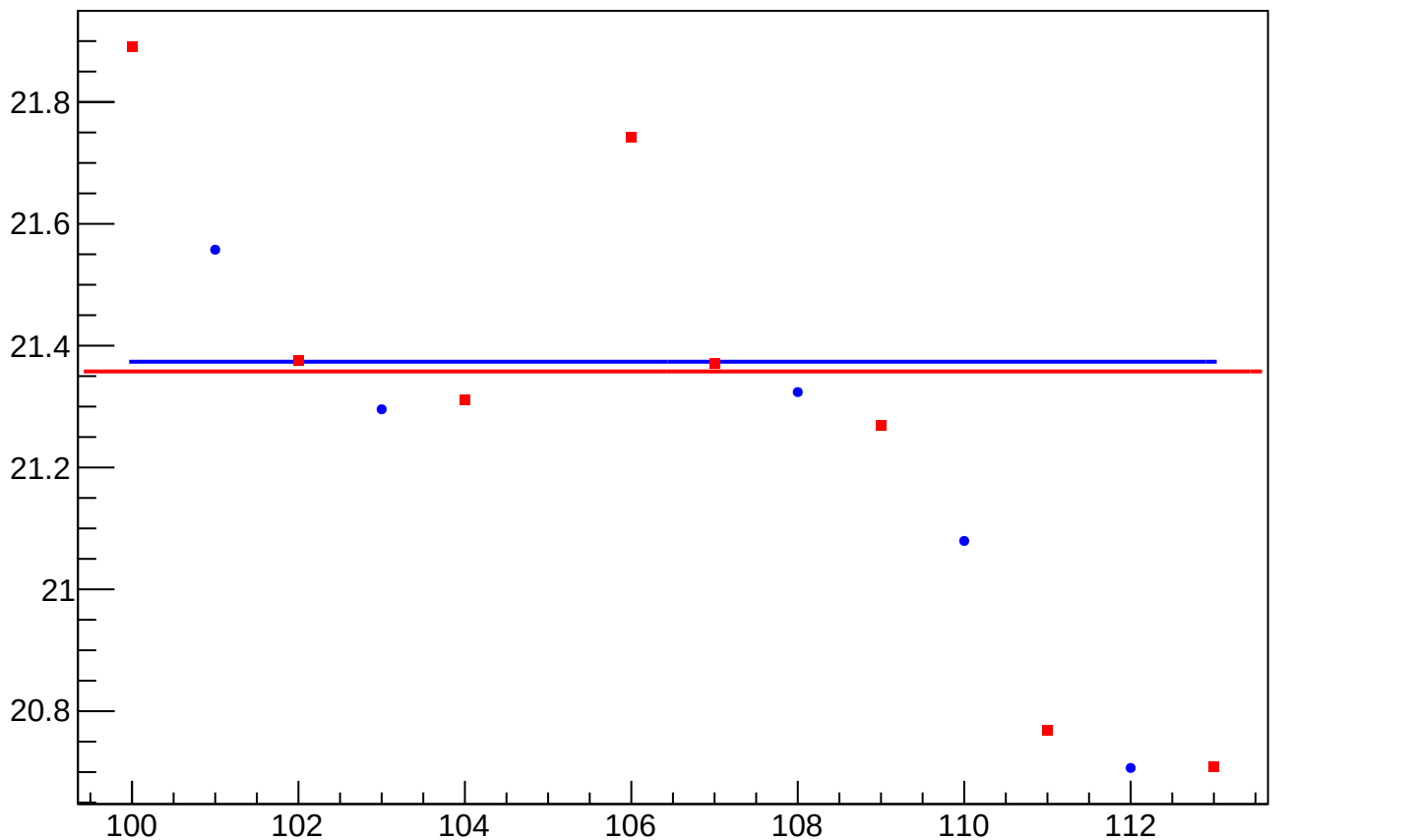
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.114+/-0.000  $\chi^2/\text{NDF}$ : 424601.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam5\_mean vs Slug



Right In: 21.374+/-0.000  $\chi^2/\text{NDF}$ : 105553073.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.358+/-0.000  $\chi^2/\text{NDF}$ : 184832928.4/7

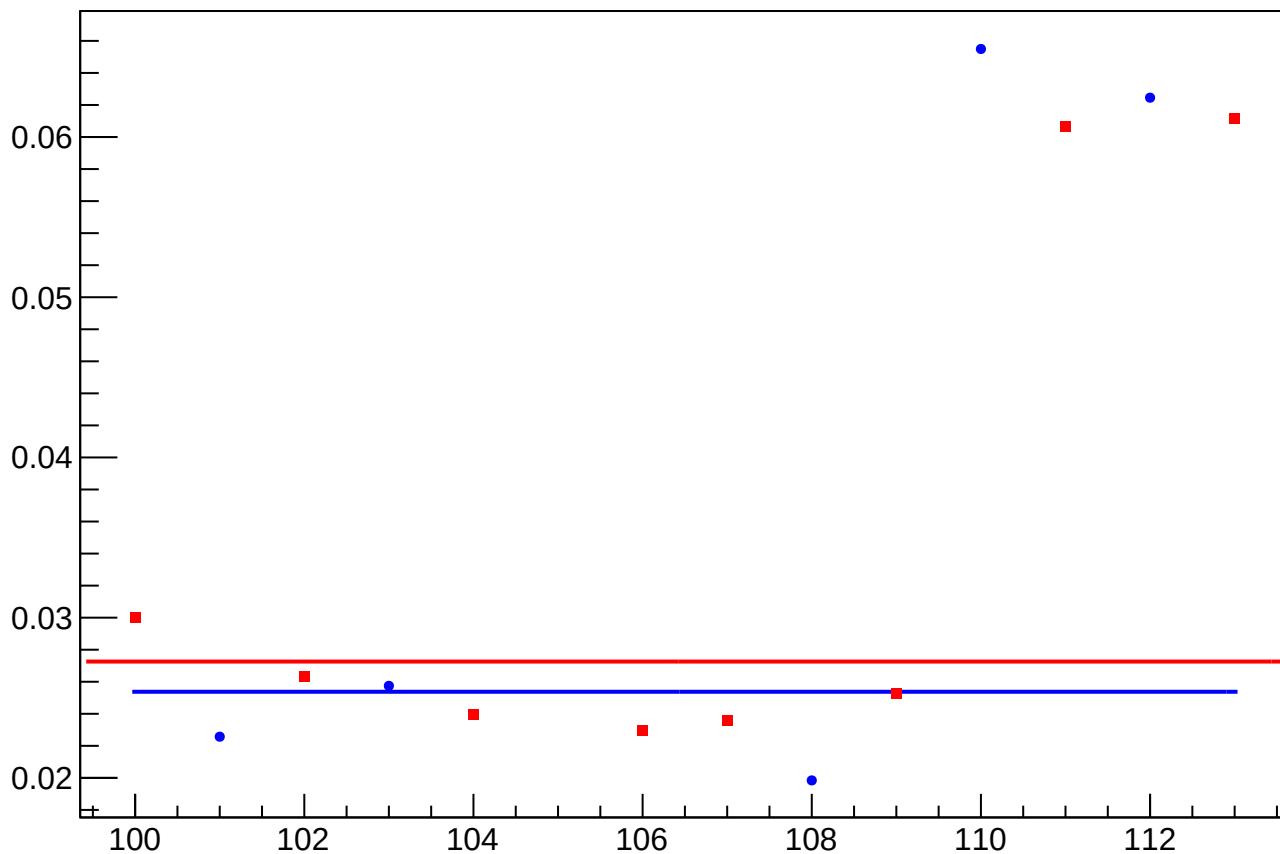
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.365+/-0.000  $\chi^2/\text{NDF}$ : 290794471.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam5\_rms vs Slug



Right In: 0.025+/-0.000  $\chi^2/\text{NDF}$ : 639500.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 577849.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

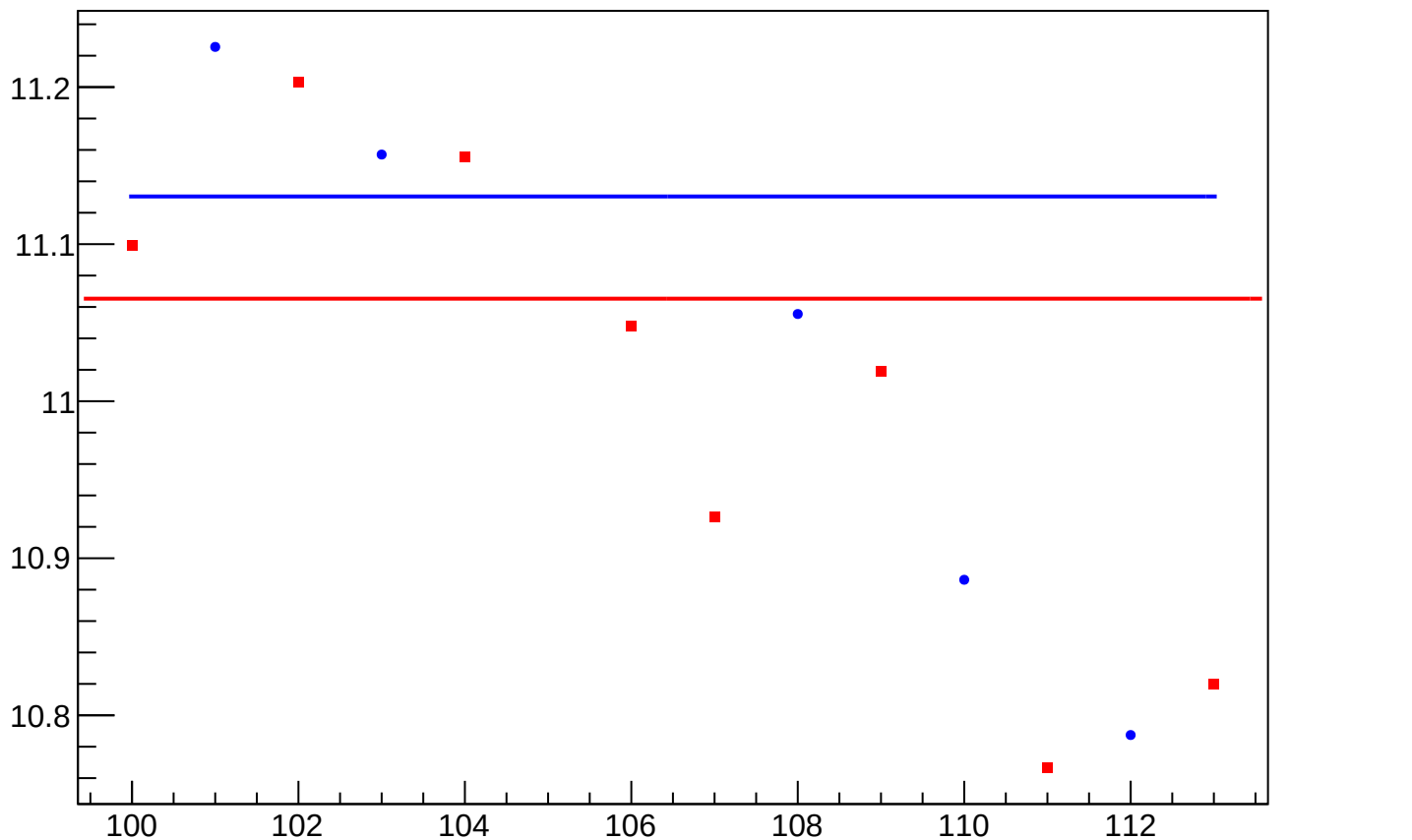
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 1228764.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_sam6\_mean vs Slug



Right In: 11.130 $\pm$ 0.000  $\chi^2$ /NDF: 250250569.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 11.065 $\pm$ 0.000  $\chi^2$ /NDF: 284646492.6/7

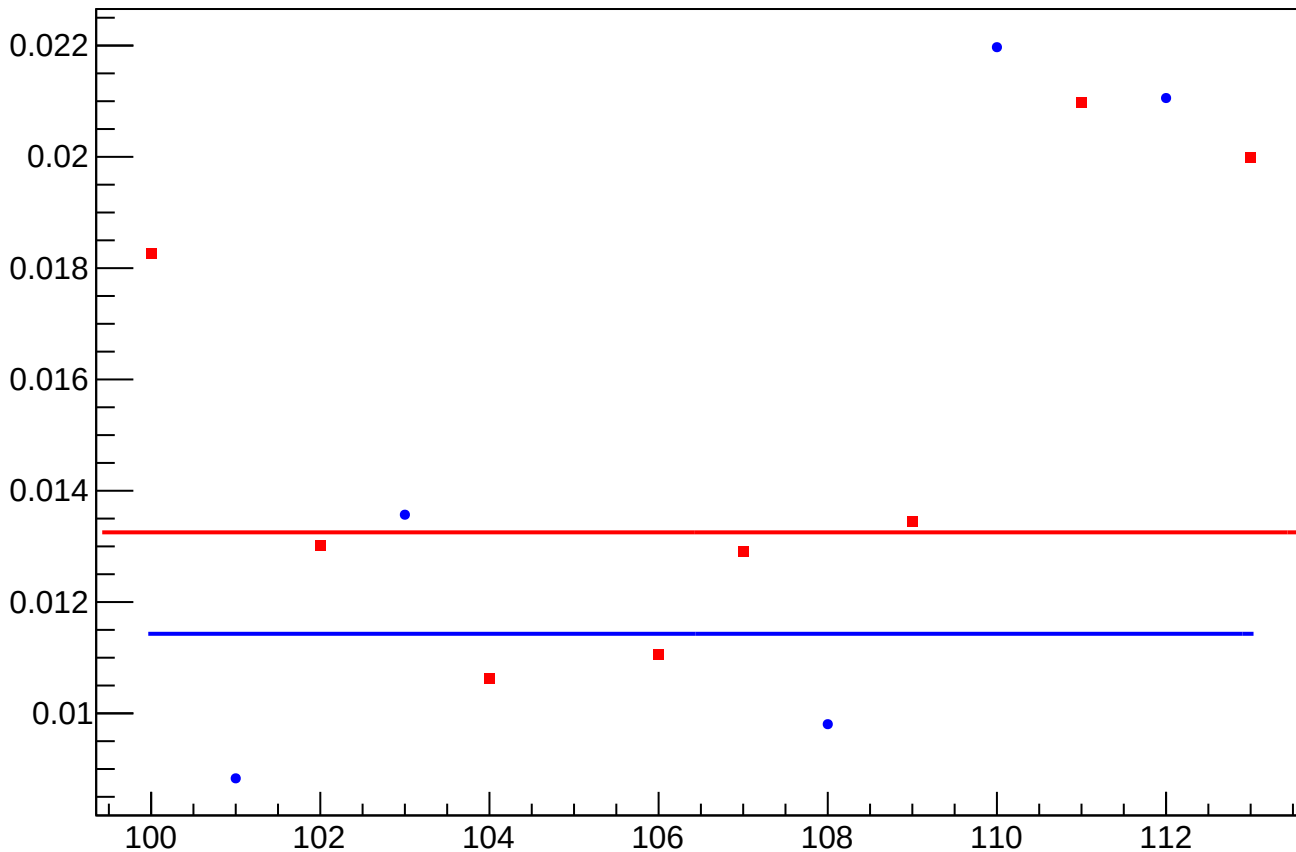
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.098 $\pm$ 0.000  $\chi^2$ /NDF: 567716015.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_sam6\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 489217.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 304376.7/7

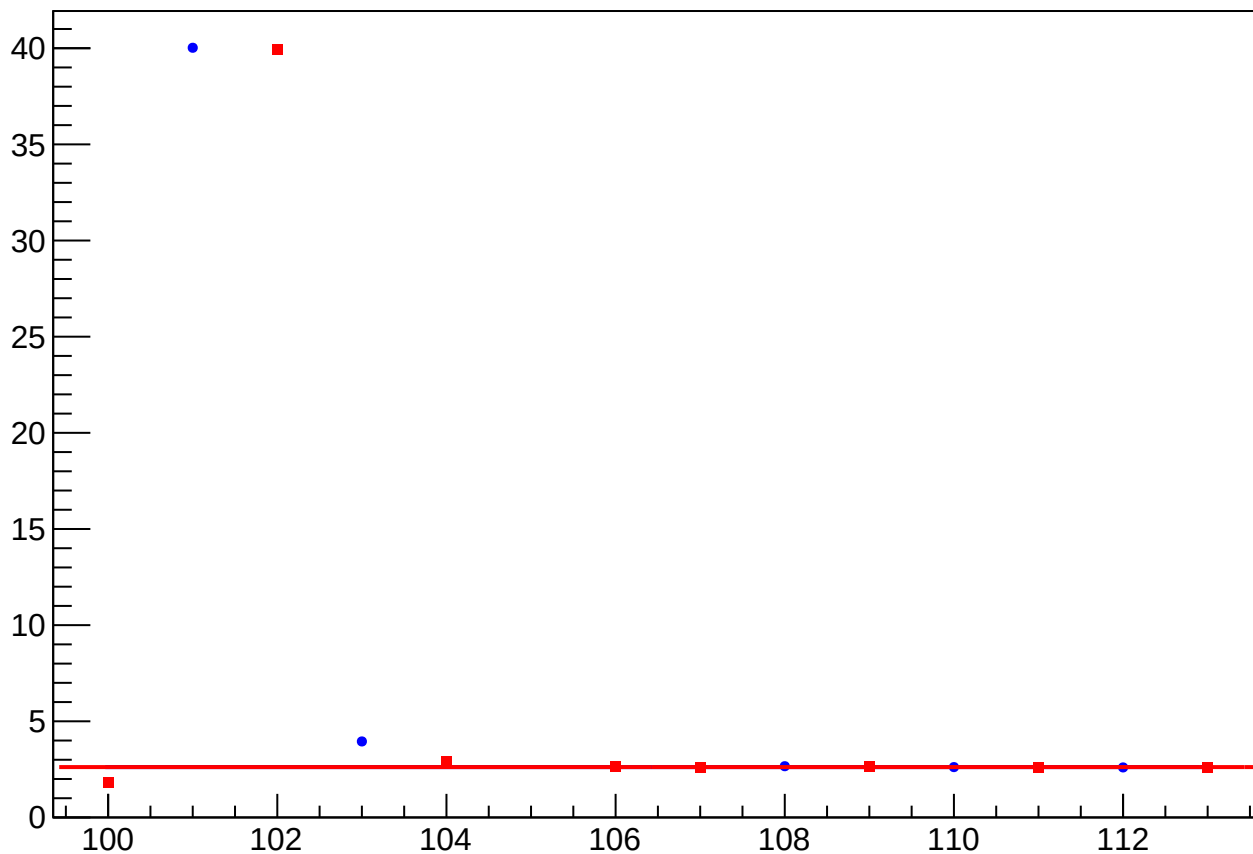
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 845089.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam7\_mean vs Slug



Right In: 2.618+/-0.000  $\chi^2/\text{NDF}$ : 62122518607.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.619+/-0.000  $\chi^2/\text{NDF}$ : 60558899702.0/7

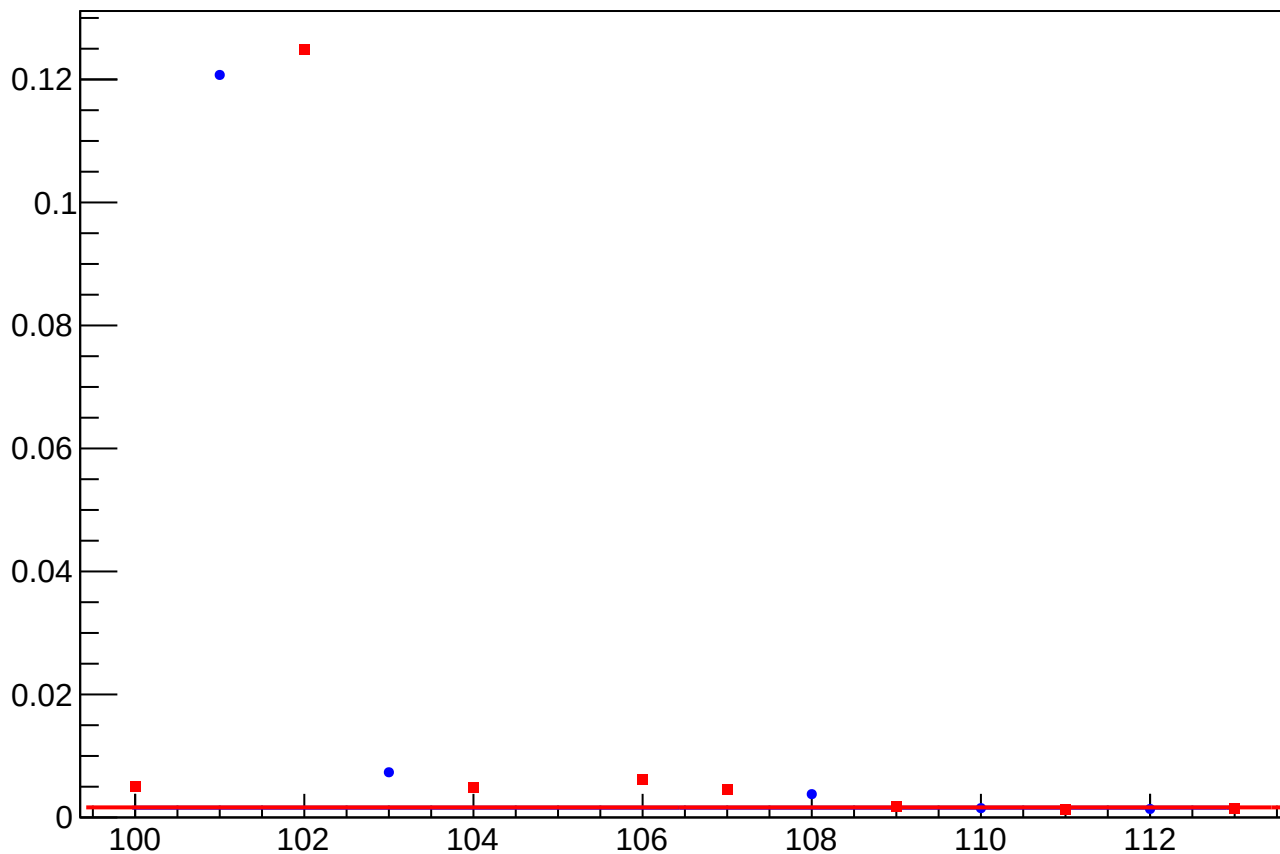
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.619+/-0.000  $\chi^2/\text{NDF}$ : 122681677408.7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam7\_rms vs Slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 1530737.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 2100580.2/7

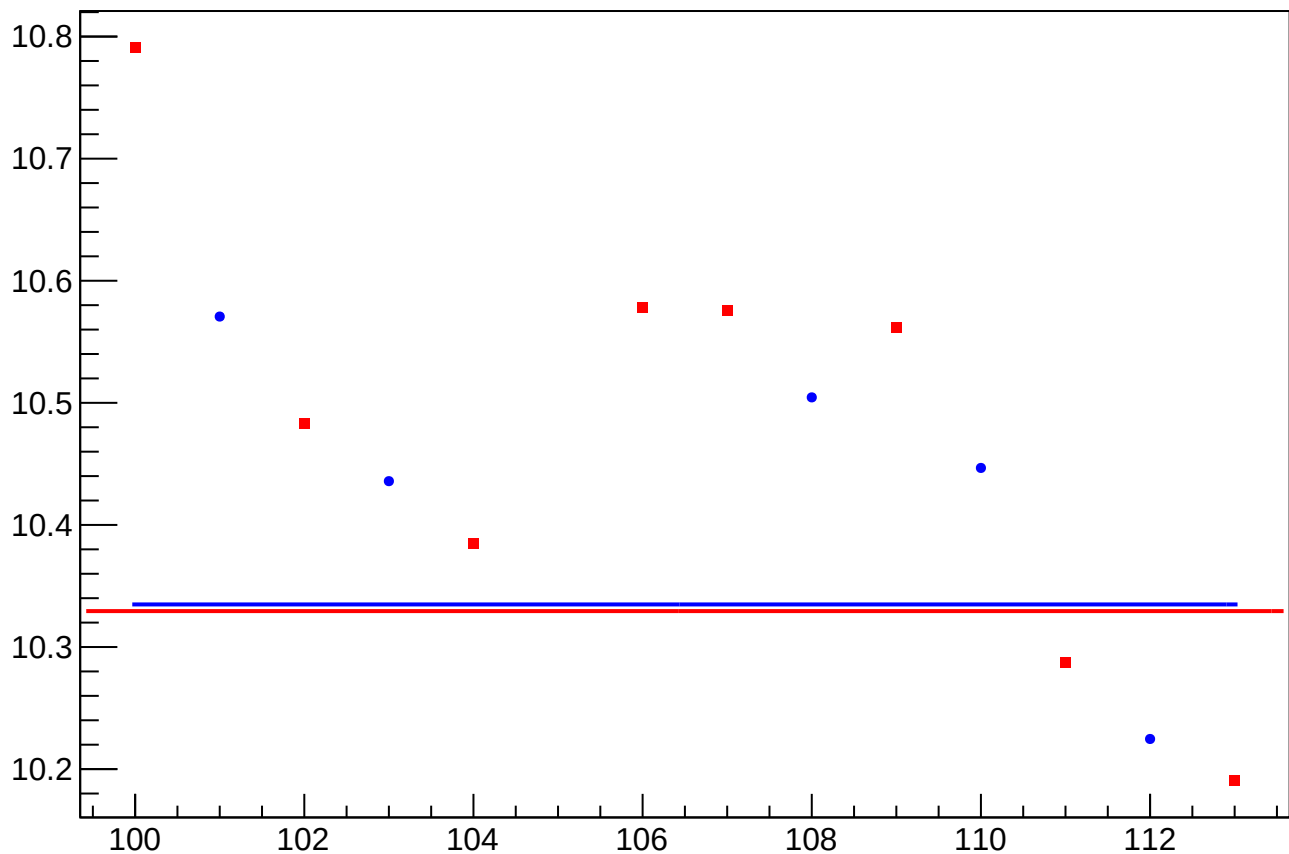
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 3632707.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_sam8\_mean vs Slug



Right In: 10.335+/-0.000  $\chi^2/\text{NDF}$ : 1291000095.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.329+/-0.000  $\chi^2/\text{NDF}$ : 2123406609.9/7

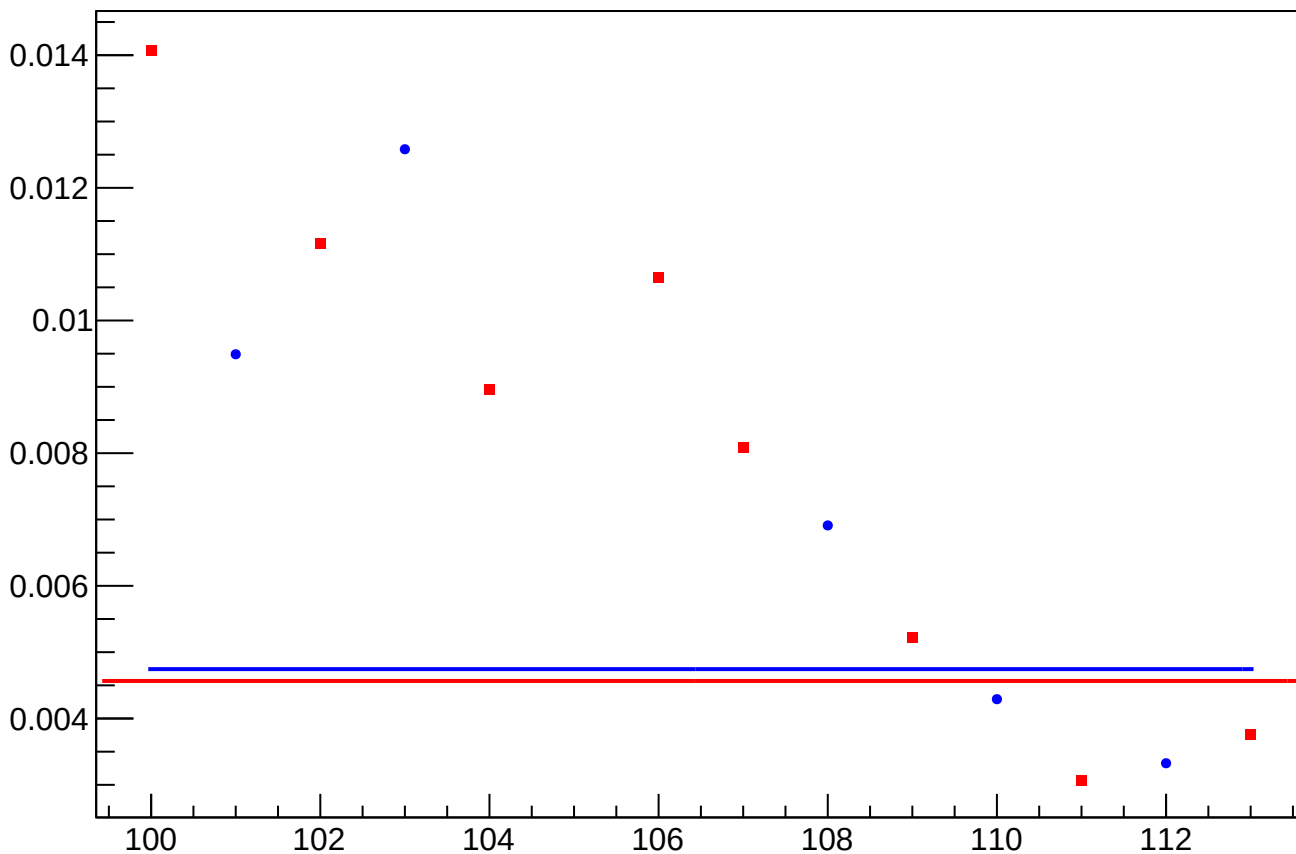
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.332+/-0.000  $\chi^2/\text{NDF}$ : 3415765371.7/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam8\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 953870.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1212478.1/7

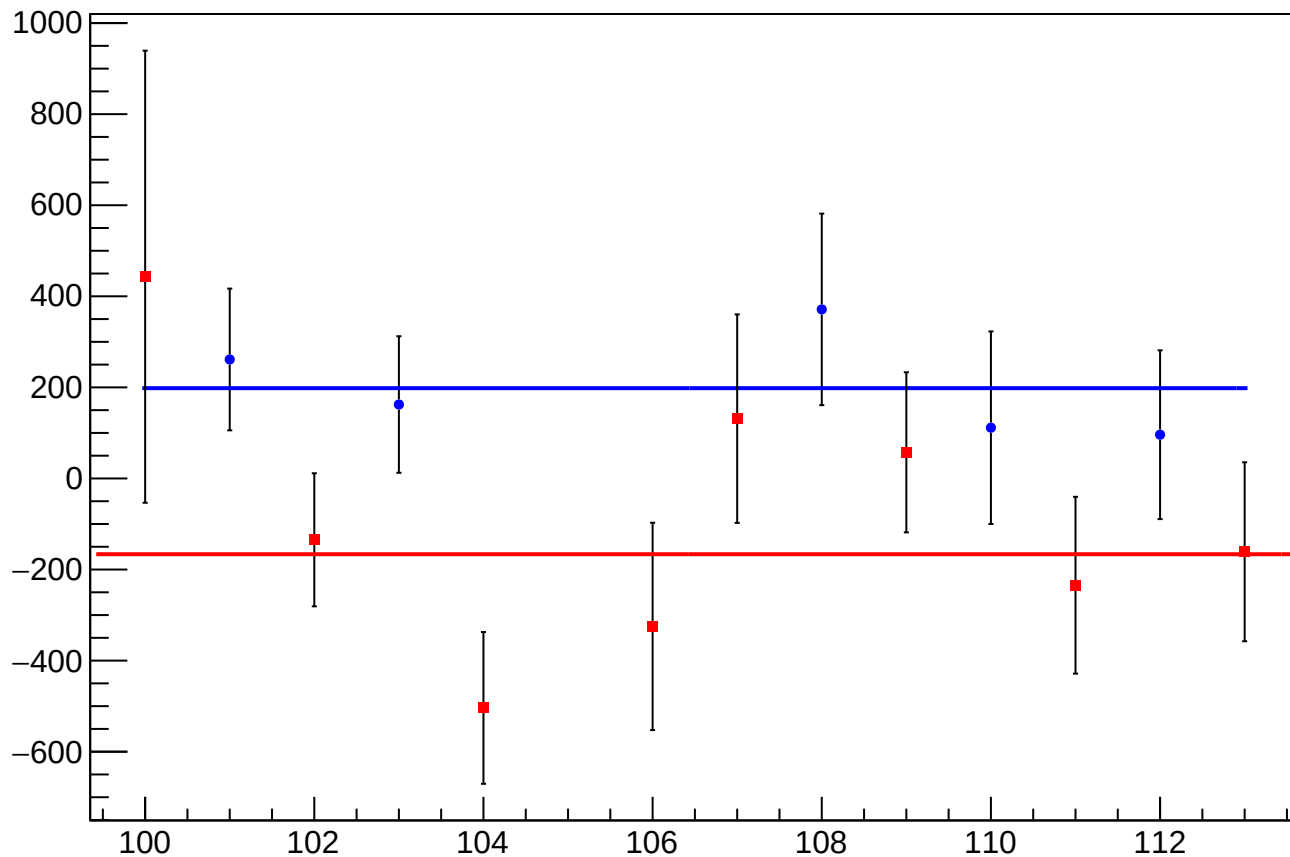
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2169248.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_mean vs Slug



Right In: 198.262 $\pm$ 79.091  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -166.373 $\pm$ 68.993  $\chi^2$ /NDF: 9.6/7

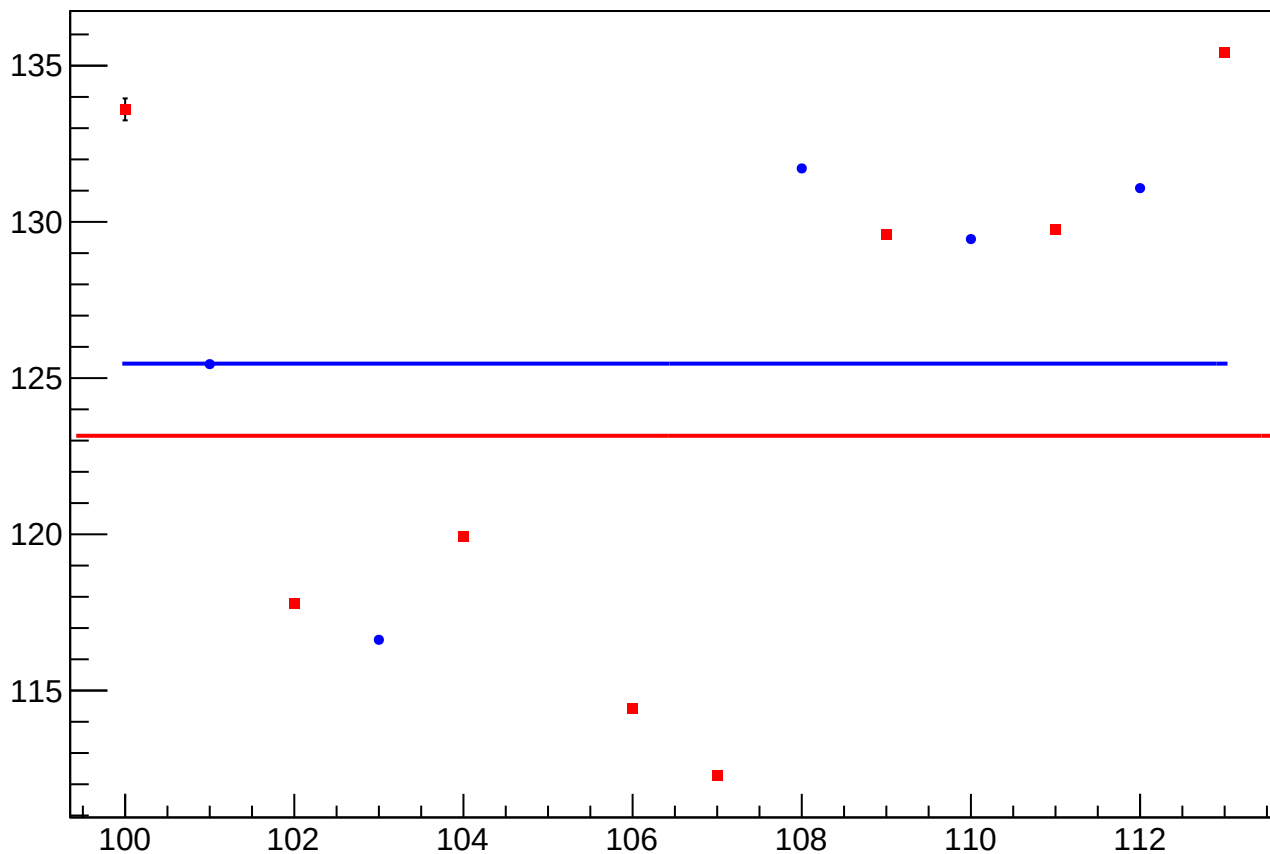
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -8.805 $\pm$ 51.992  $\chi^2$ /NDF: 23.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam1\_rms vs Slug



Right In: 125.464 $\pm$ 0.056  $\chi^2$ /NDF: 11266.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 123.155 $\pm$ 0.049  $\chi^2$ /NDF: 24615.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

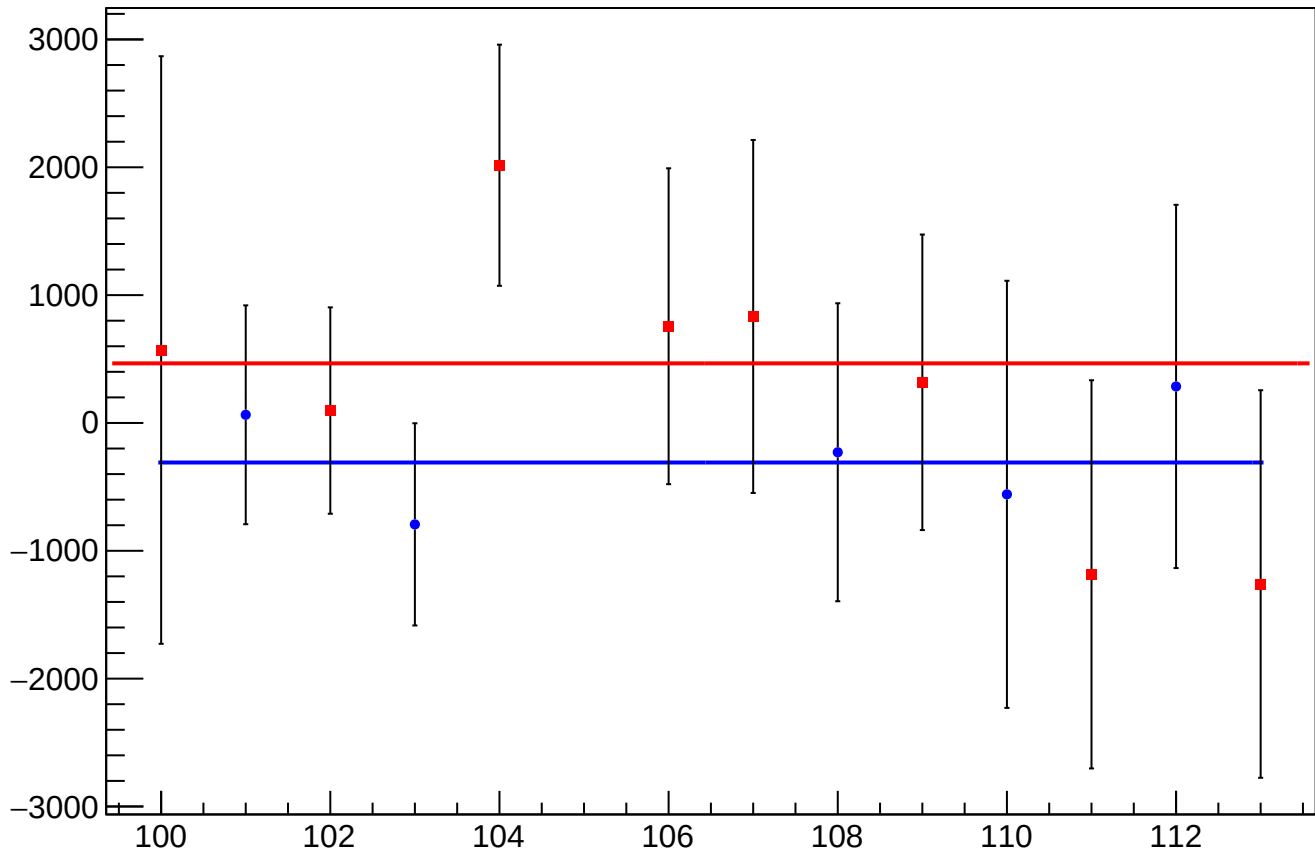
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 124.152 $\pm$ 0.037  $\chi^2$ /NDF: 36849.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam1\_reg\_correction\_mean vs Slug



Right In: -309.285+/-468.619  $\chi^2/\text{NDF}$ : 0.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 466.271+/-420.870  $\chi^2/\text{NDF}$ : 5.5/7

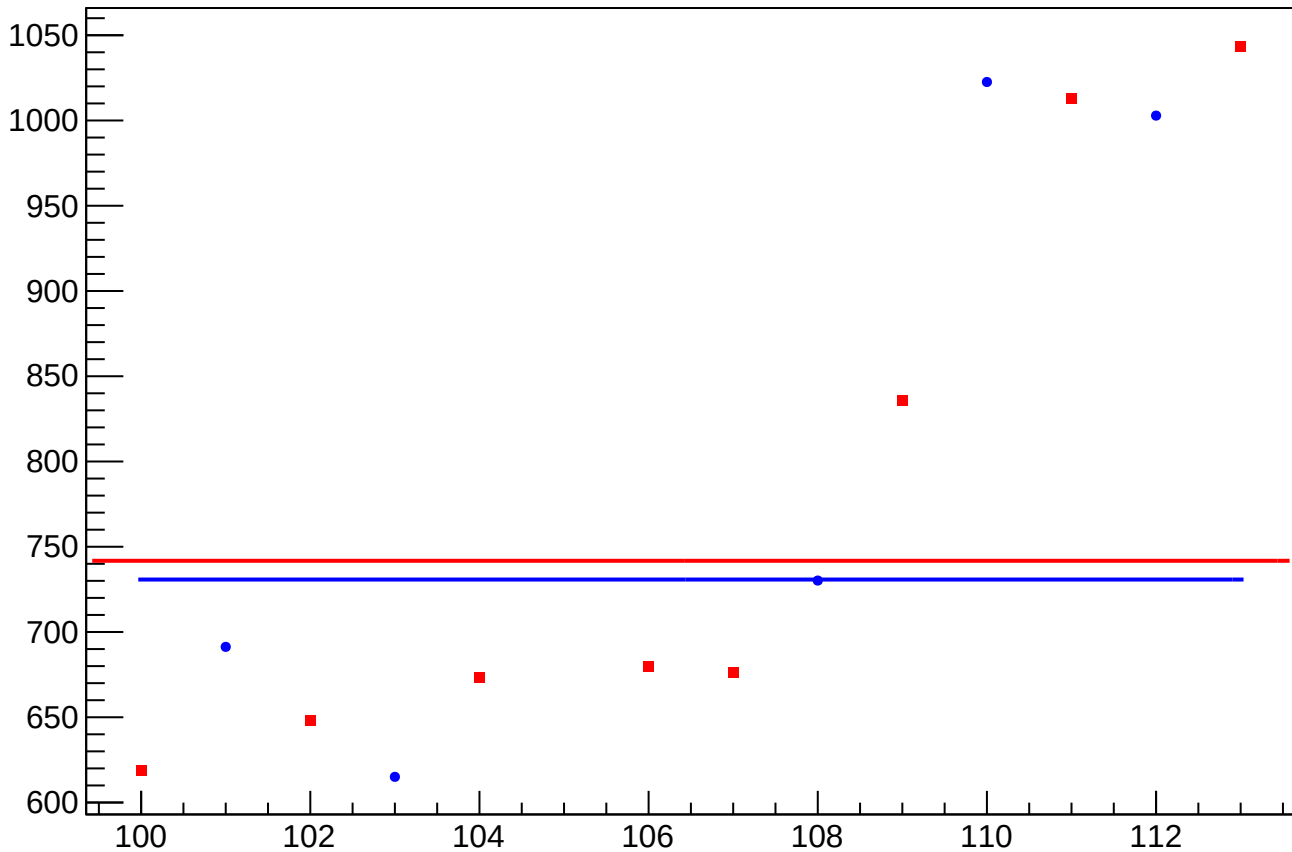
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 120.006+/-313.125  $\chi^2/\text{NDF}$ : 7.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_reg\_correction\_rms vs Slug



Right In: 730.770+/-0.331  $\chi^2/\text{NDF}$ : 181451.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 741.769+/-0.298  $\chi^2/\text{NDF}$ : 209198.8/7

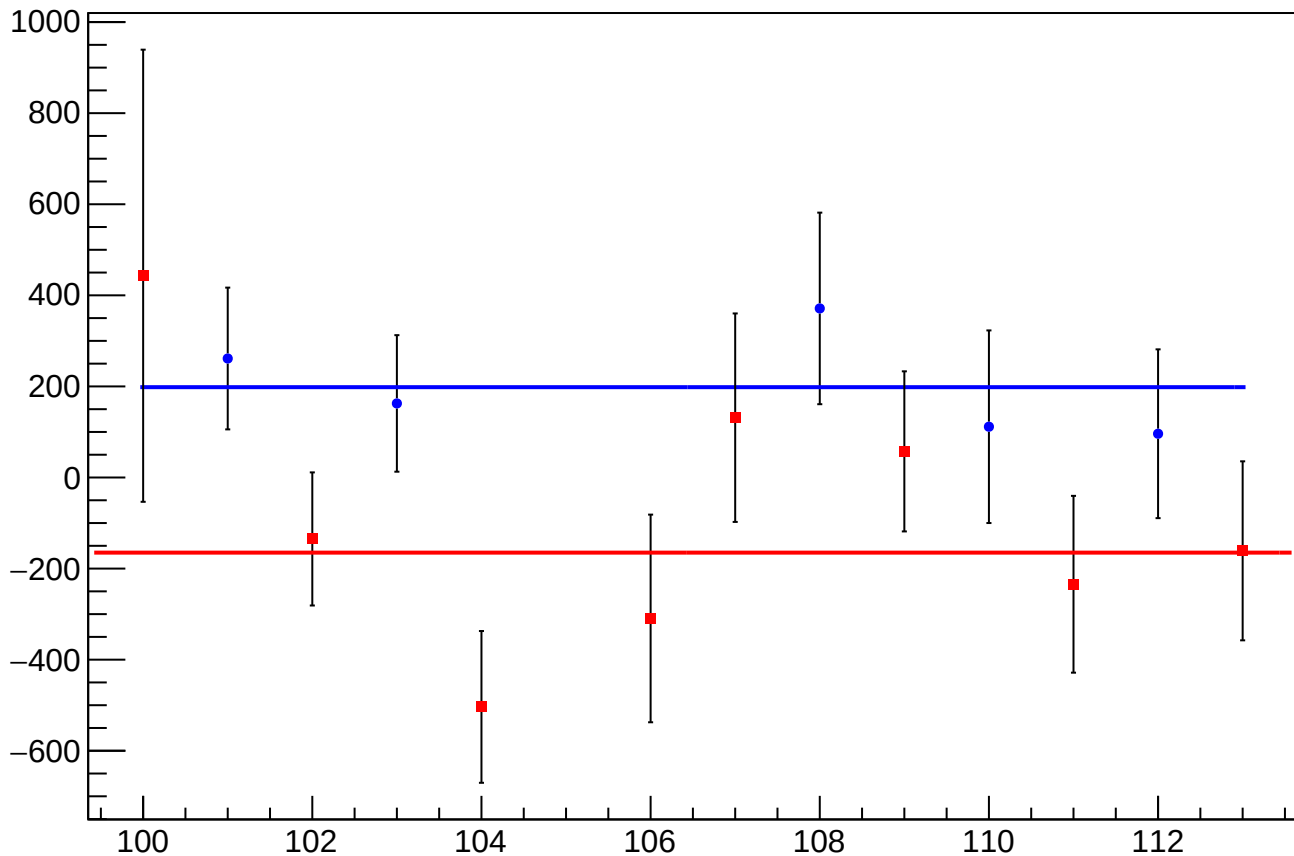
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 736.858+/-0.221  $\chi^2/\text{NDF}$ : 391260.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam1\_mean vs Slug



Right In: 198.340 $\pm$ 79.091  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -164.954 $\pm$ 69.003  $\chi^2$ /NDF: 9.5/7

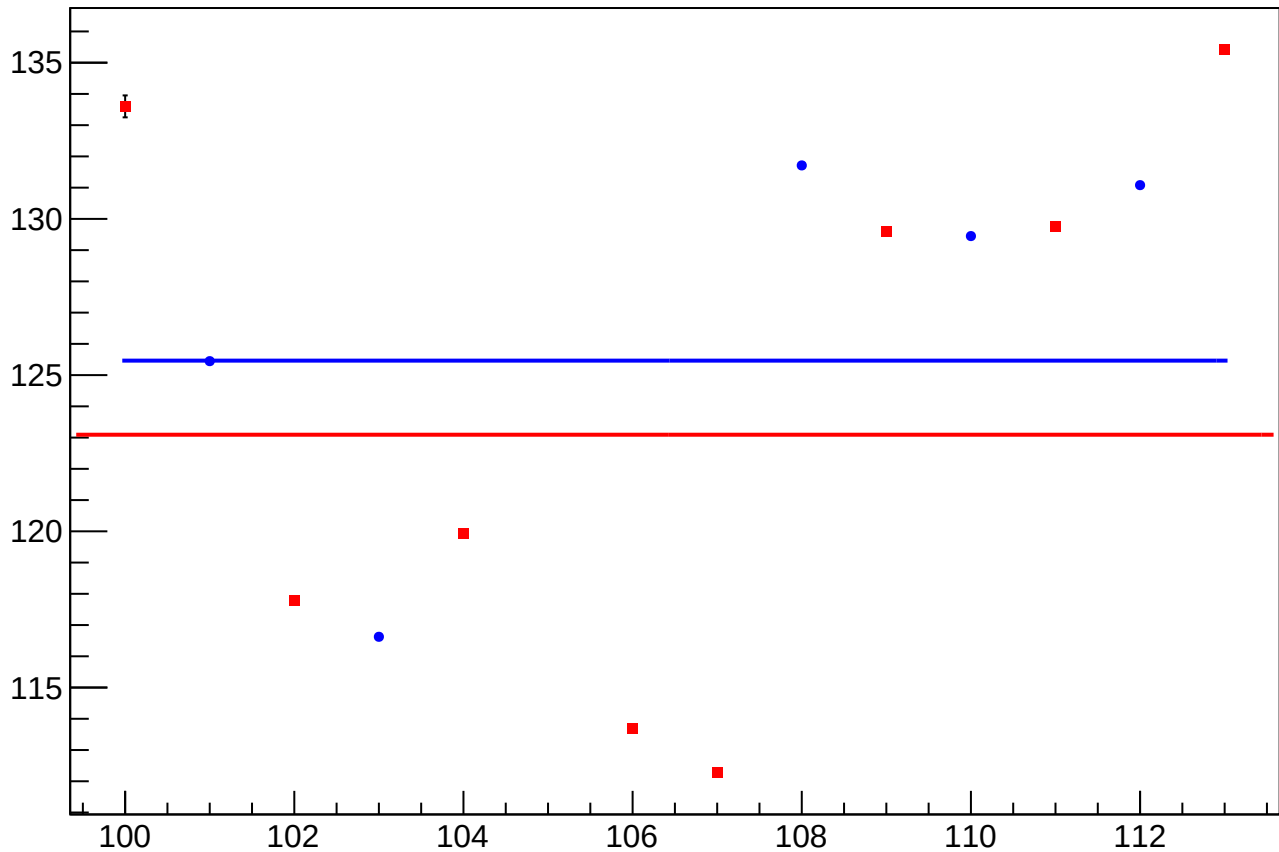
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -7.940 $\pm$ 51.996  $\chi^2$ /NDF: 22.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam1\_rms vs Slug



Right In: 125.464 $\pm$ 0.056  $\chi^2$ /NDF: 11266.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 123.092 $\pm$ 0.049  $\chi^2$ /NDF: 25108.9/7

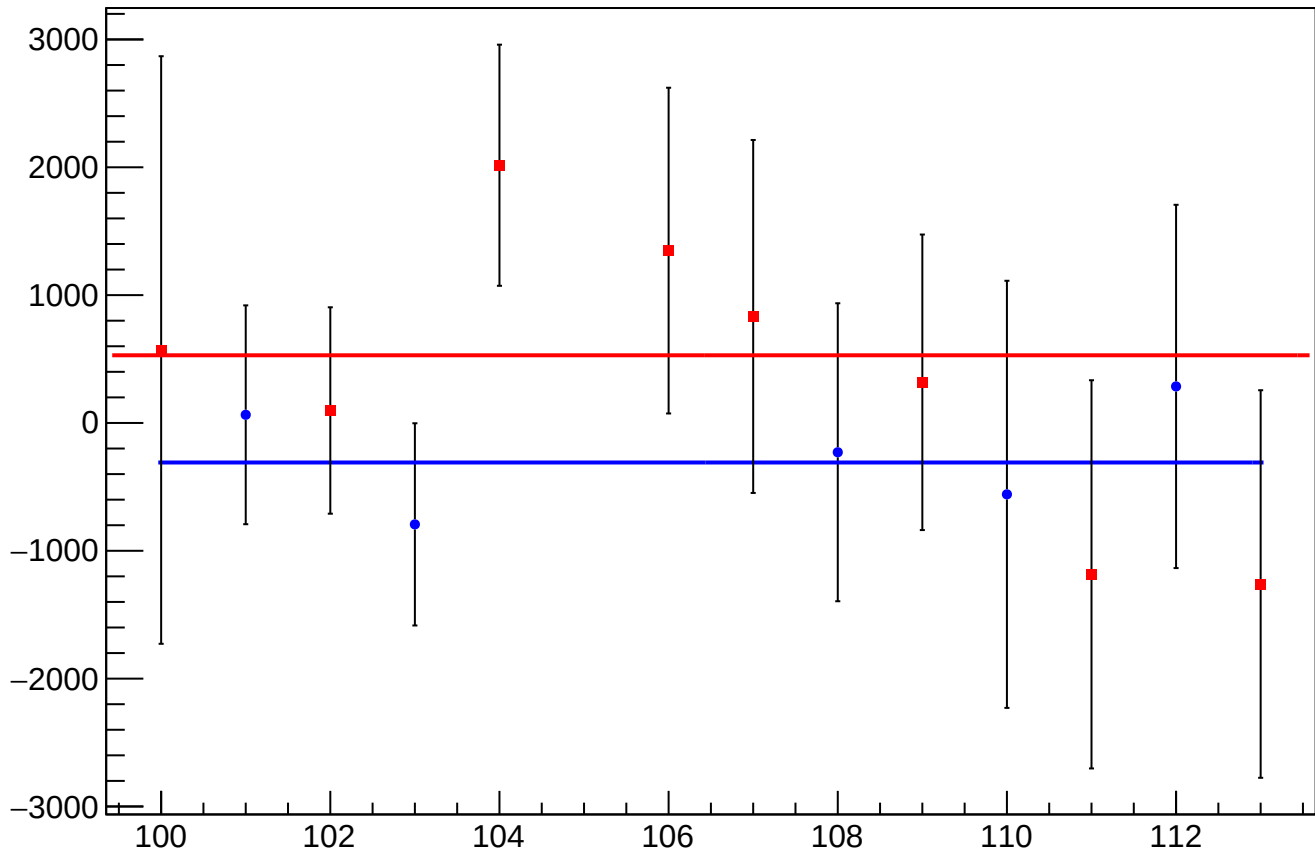
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 124.117 $\pm$ 0.037  $\chi^2$ /NDF: 37395.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_cor\_correction\_mean vs Slug



Right In: -309.262+/-468.618  $\chi^2/\text{NDF}$ : 0.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 529.417+/-422.346  $\chi^2/\text{NDF}$ : 5.9/7

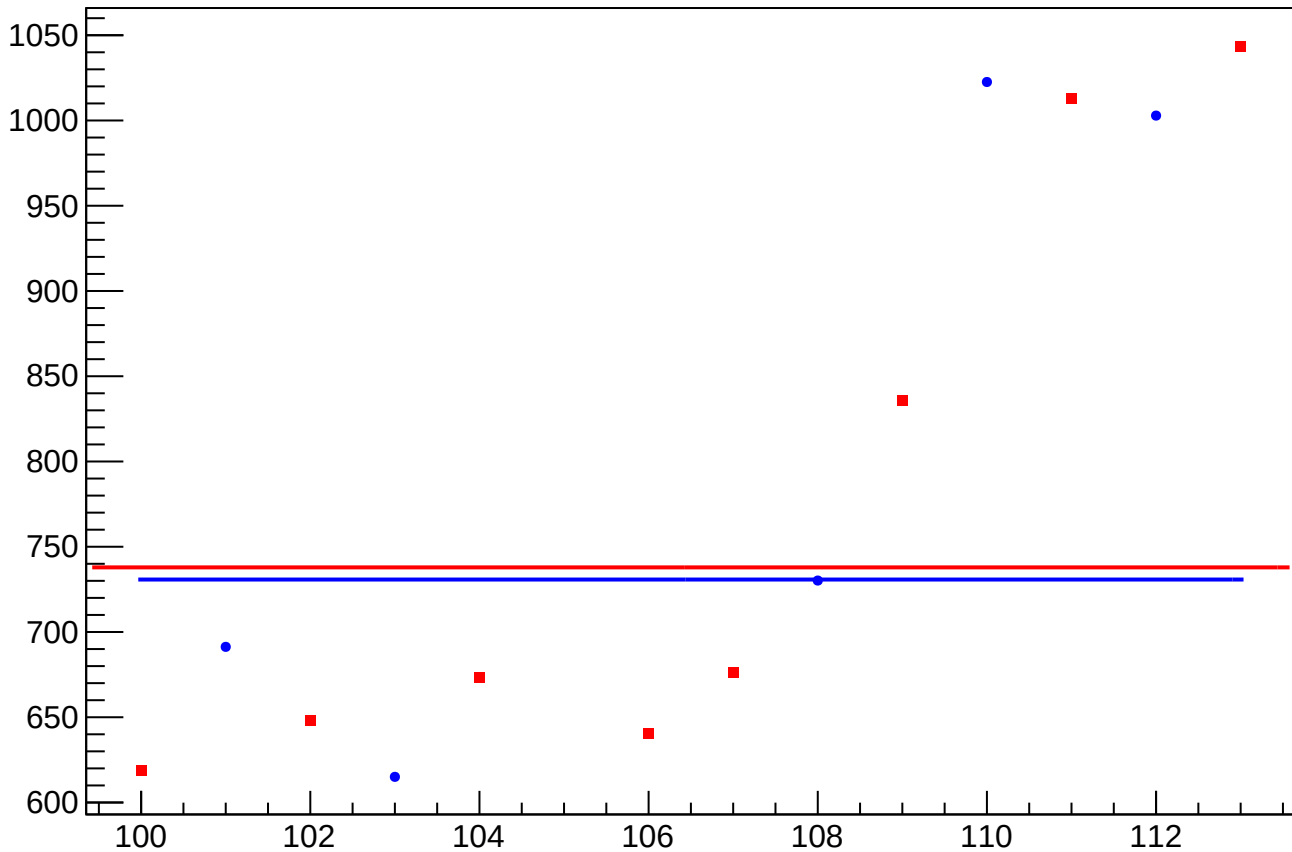
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 153.517+/-313.731  $\chi^2/\text{NDF}$ : 8.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_cor\_correction\_rms vs Slug



Right In: 730.768 $\pm$ 0.331  $\chi^2$ /NDF: 181456.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 737.895 $\pm$ 0.299  $\chi^2$ /NDF: 216632.4/7

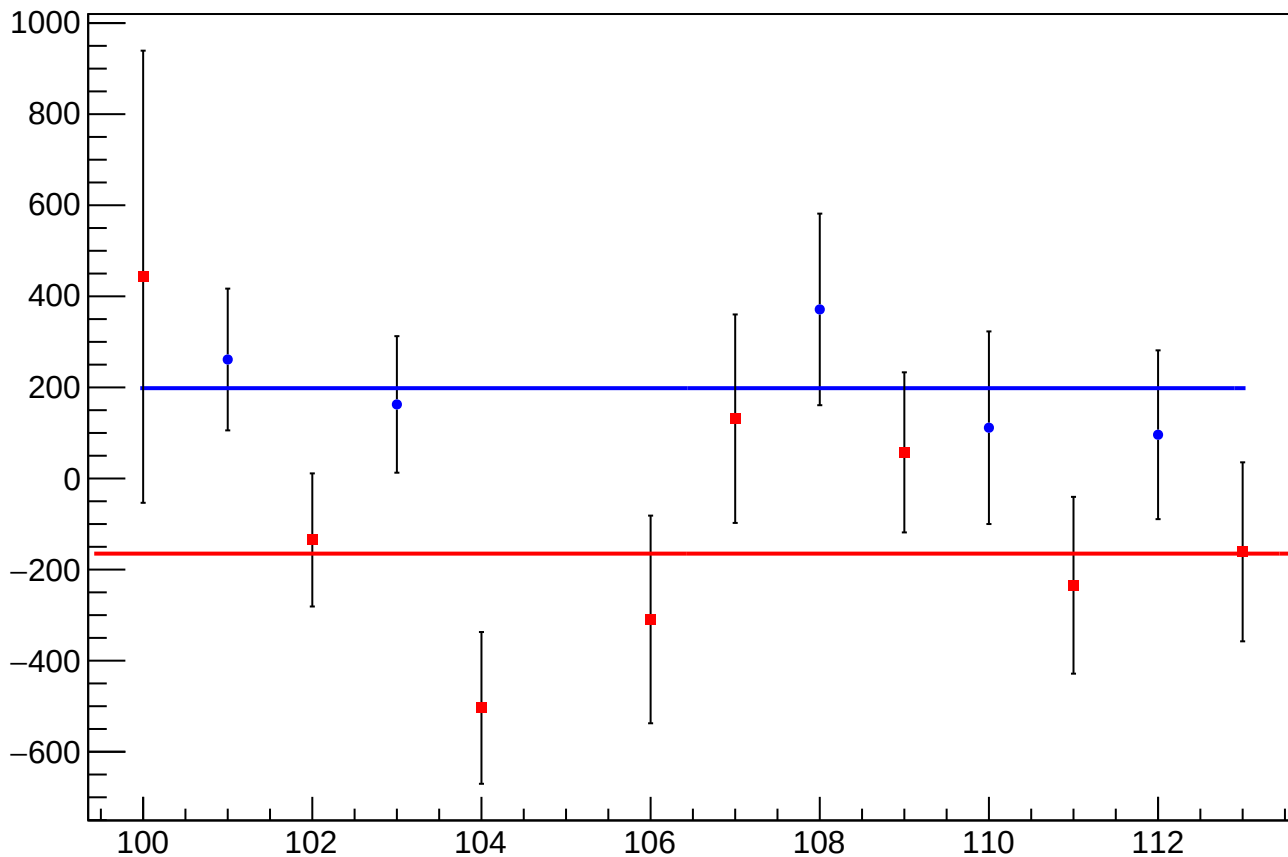
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 734.701 $\pm$ 0.222  $\chi^2$ /NDF: 398343.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam1\_mean vs Slug



Right In: 198.340 $\pm$ 79.091  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -164.954 $\pm$ -69.003  $\chi^2$ /NDF: 9.5/7

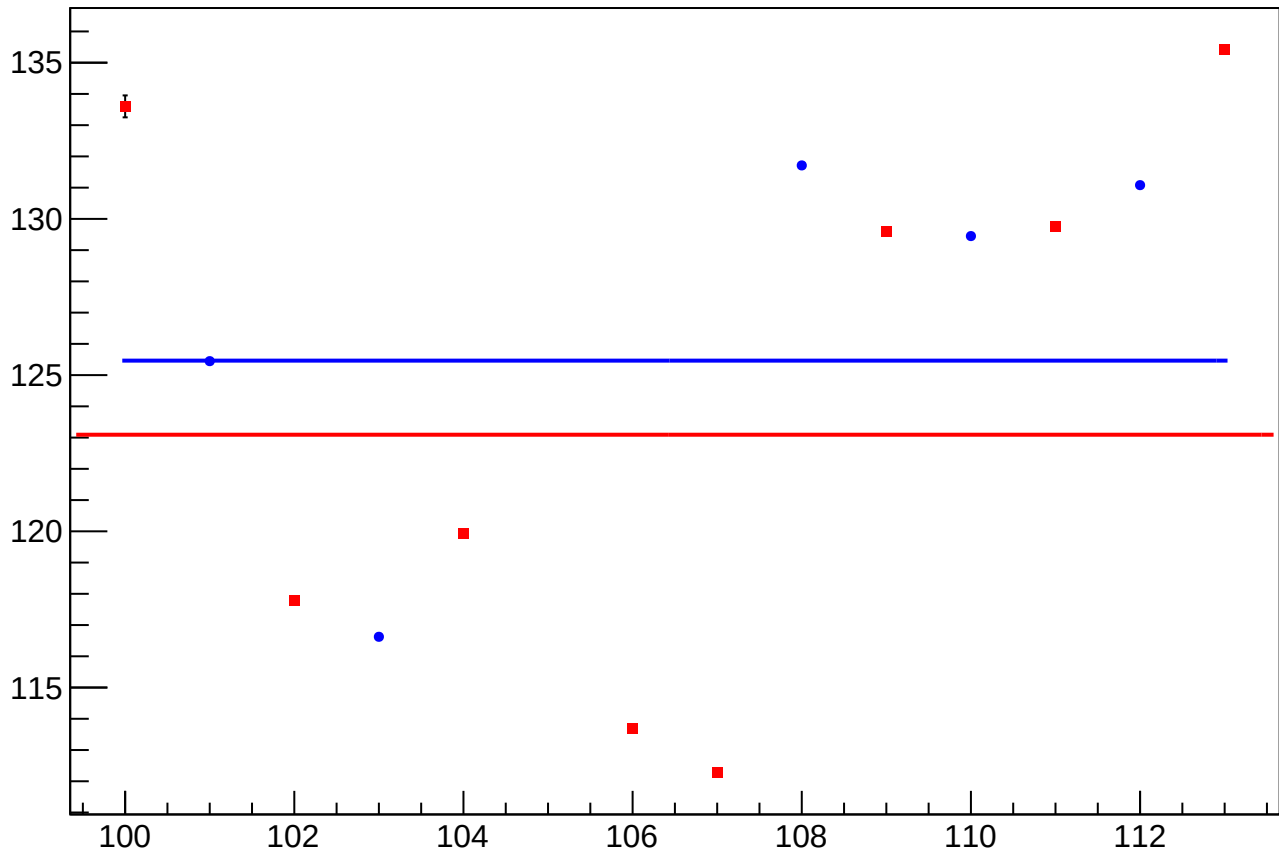
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -7.940 $\pm$ -51.996  $\chi^2$ /NDF: 22.8/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam1\_rms vs Slug



Right In: 125.464 $\pm$ 0.056  $\chi^2$ /NDF: 11266.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 123.092 $\pm$ 0.049  $\chi^2$ /NDF: 25108.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

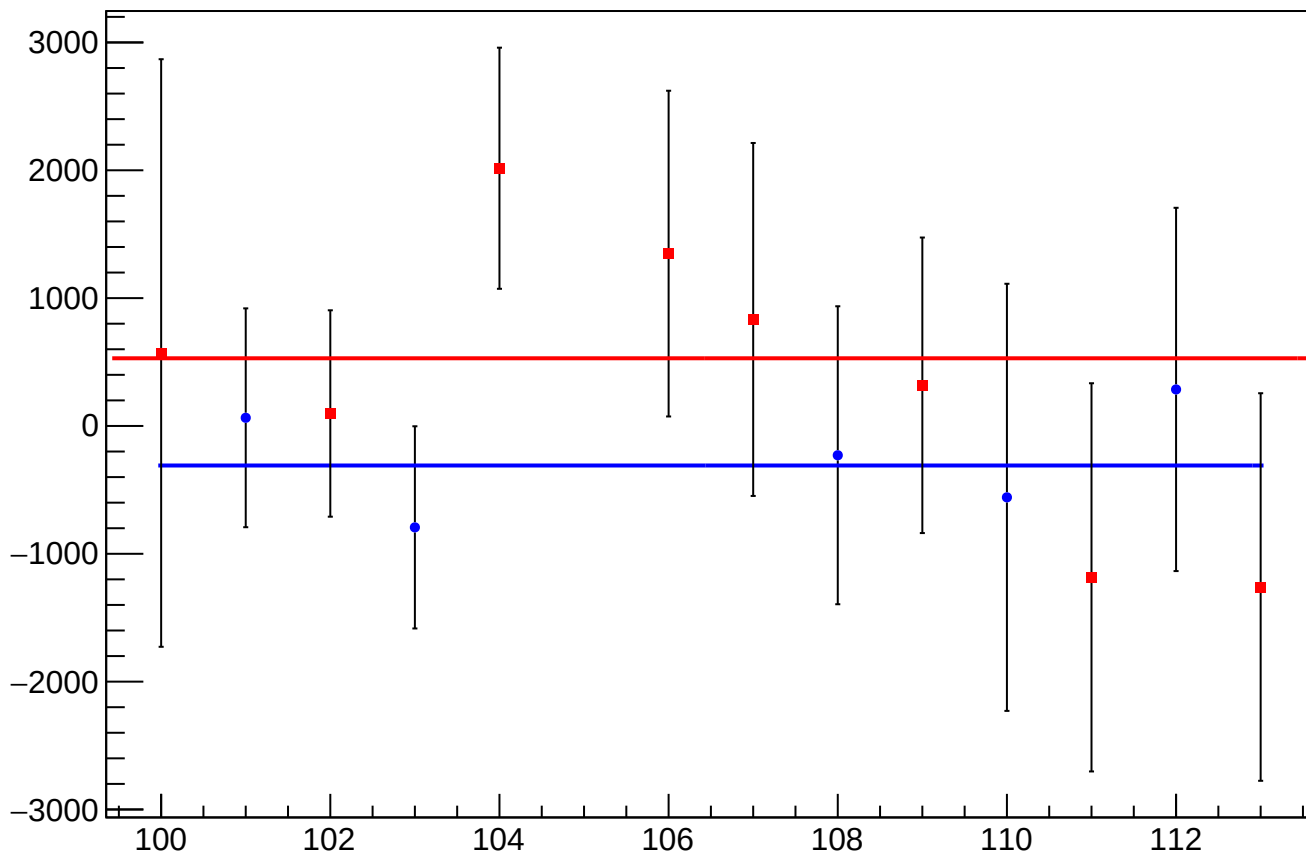
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 124.117 $\pm$ 0.037  $\chi^2$ /NDF: 37395.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam1\_eigen\_cor\_correction\_mean vs Slug



Right In: -309.262+/-468.618  $\chi^2/\text{NDF}$ : 0.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 529.417+/-422.346  $\chi^2/\text{NDF}$ : 5.9/7

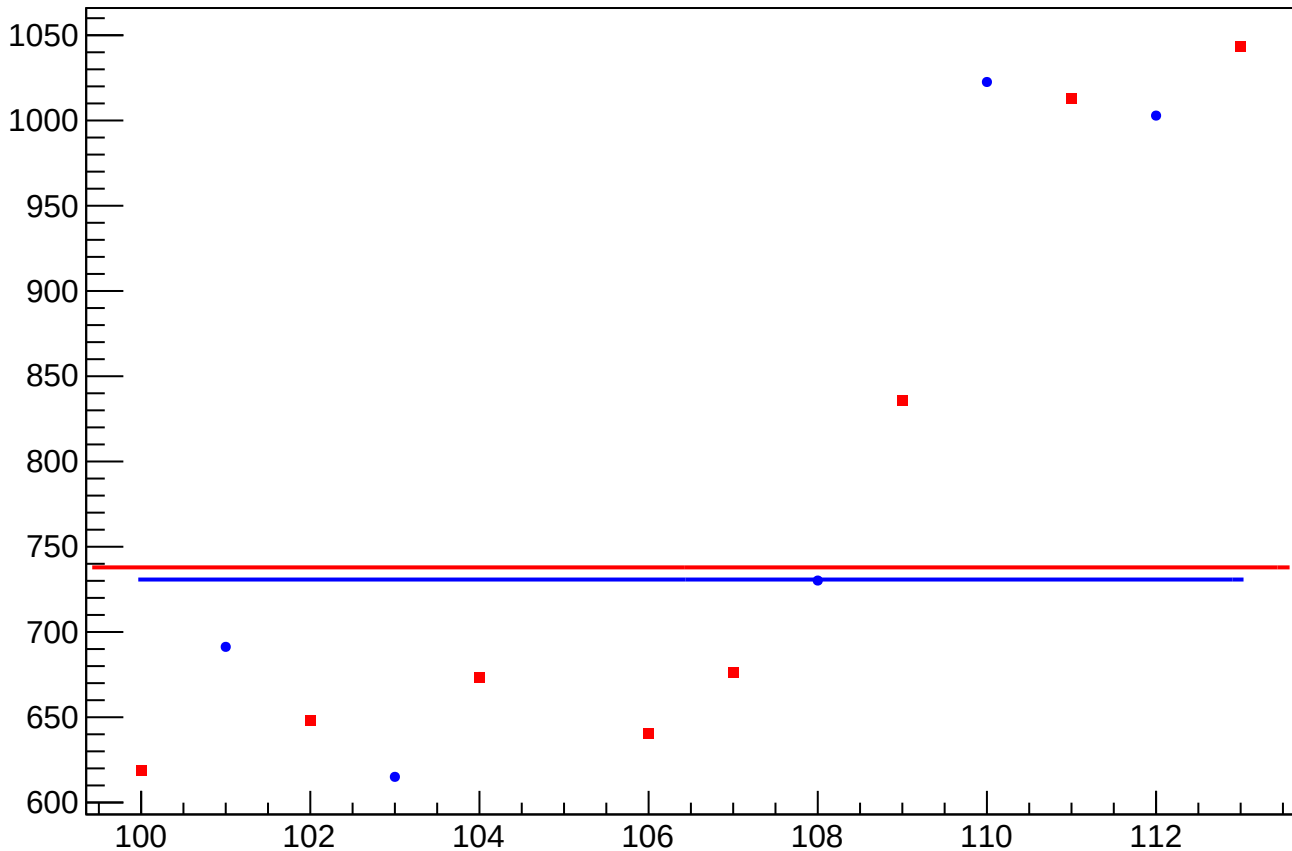
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 153.517+/-313.731  $\chi^2/\text{NDF}$ : 8.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_eigen\_cor\_correction\_rms vs Slug



Right In: 730.768+/-0.331  $\chi^2/\text{NDF}$ : 181456.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 737.895+/-0.299  $\chi^2/\text{NDF}$ : 216632.4/7

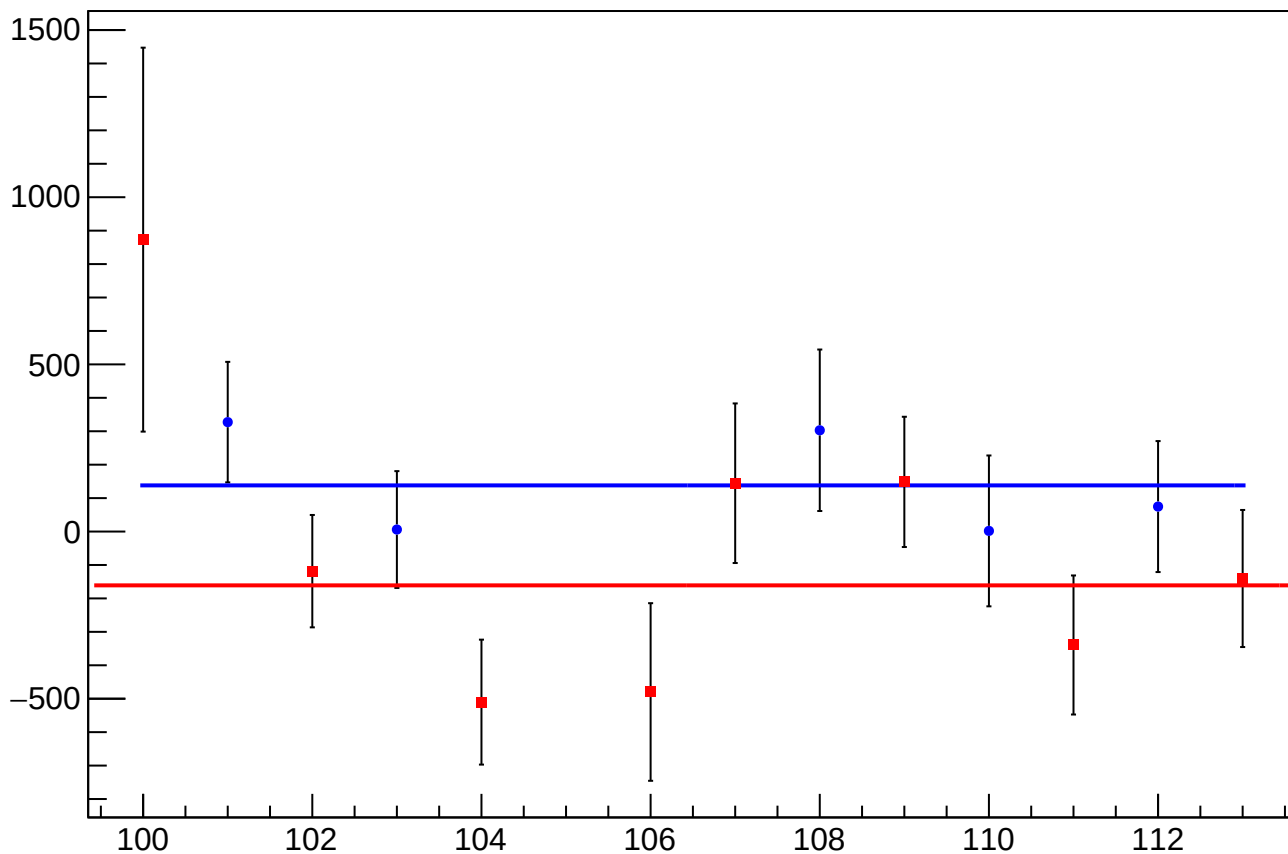
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 734.701+/-0.222  $\chi^2/\text{NDF}$ : 398343.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam1\_mean vs Slug



Right In: 138.061 $\pm$ 88.944  $\chi^2$ /NDF: 2.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -160.954 $\pm$ 76.235  $\chi^2$ /NDF: 13.1/7

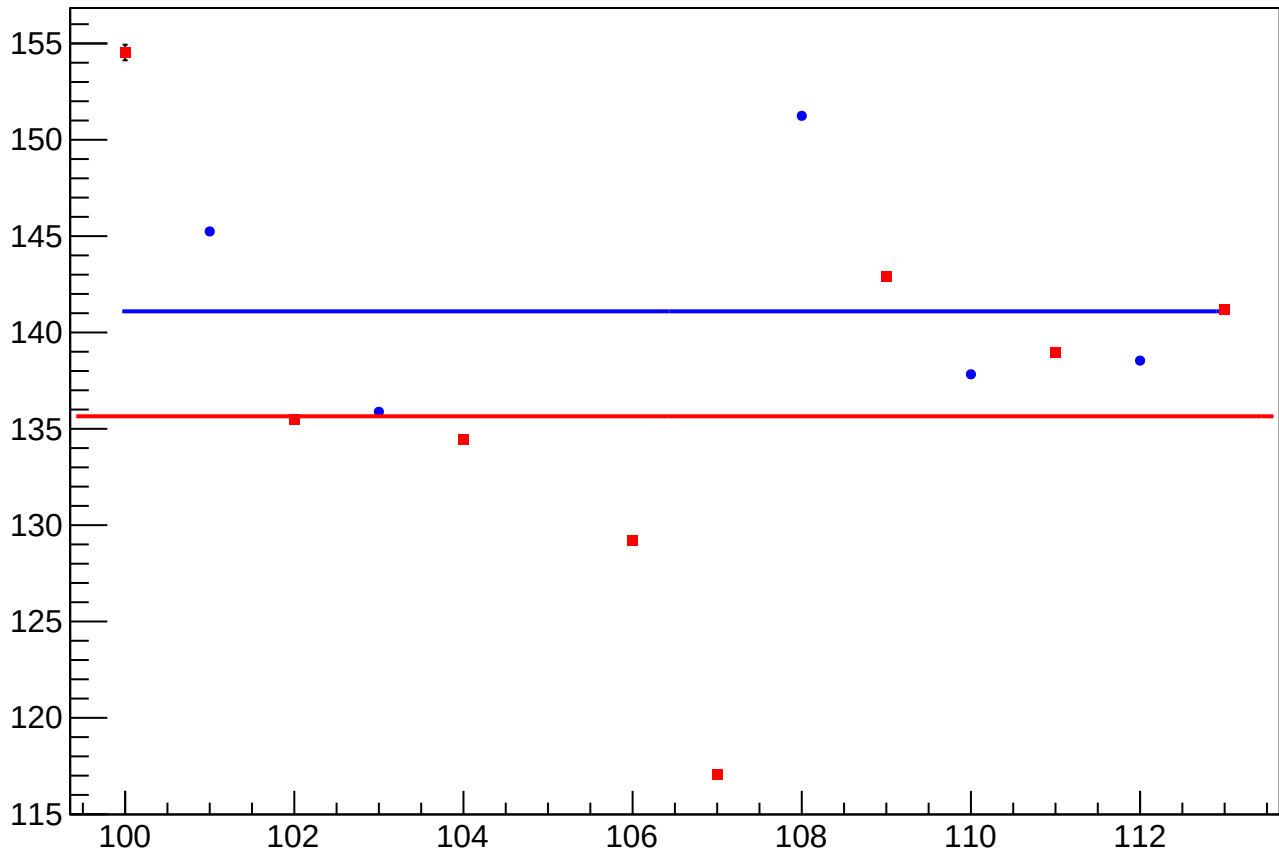
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -34.318 $\pm$ 57.883  $\chi^2$ /NDF: 22.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam1\_rms vs Slug



Right In: 141.097 $\pm$ 0.063  $\chi^2$ /NDF: 7130.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 135.649 $\pm$ 0.054  $\chi^2$ /NDF: 20292.5/7

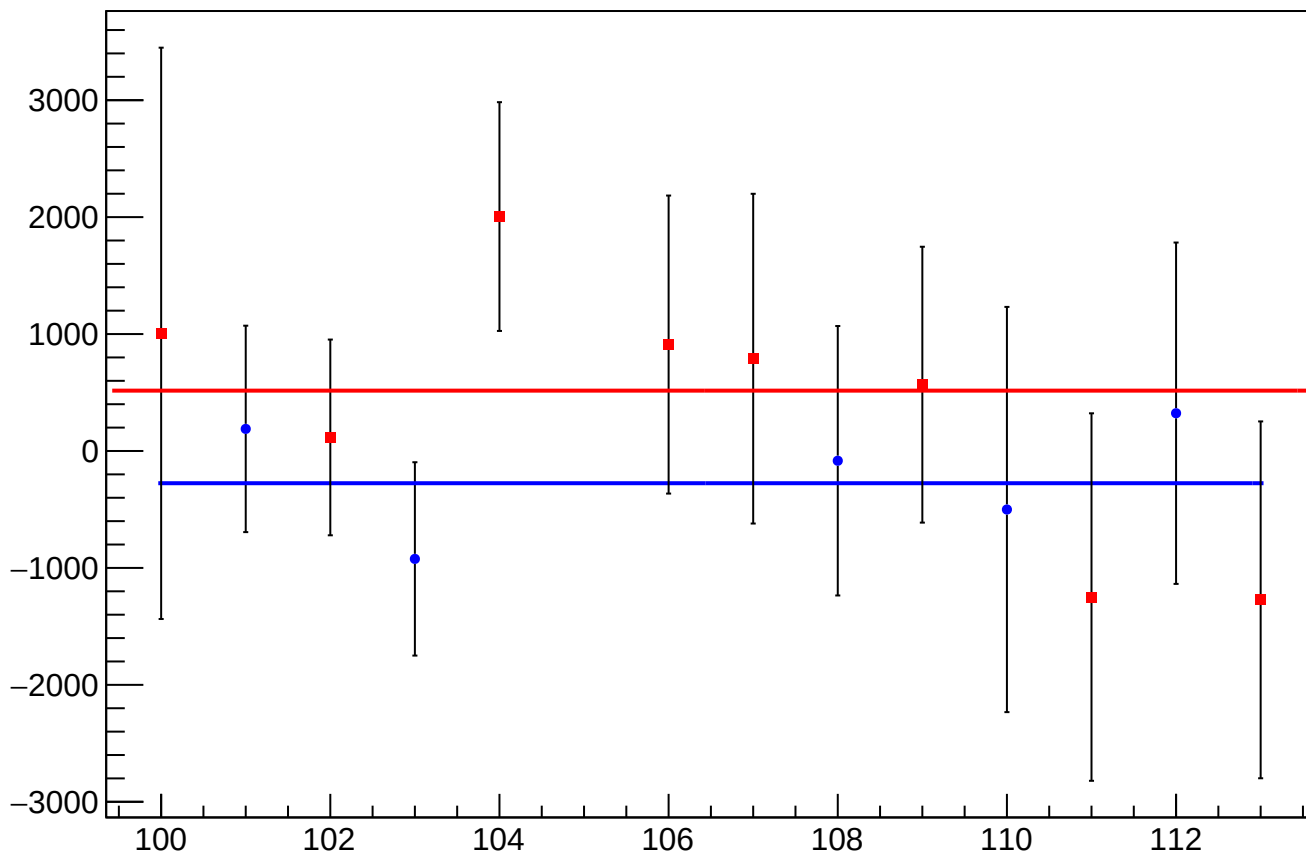
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 137.956 $\pm$ 0.041  $\chi^2$ /NDF: 31748.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_dit\_correction\_mean vs Slug



Right In: -275.618+/-482.118  $\chi^2/\text{NDF}$ : 1.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 516.164+/-433.873  $\chi^2/\text{NDF}$ : 5.4/7

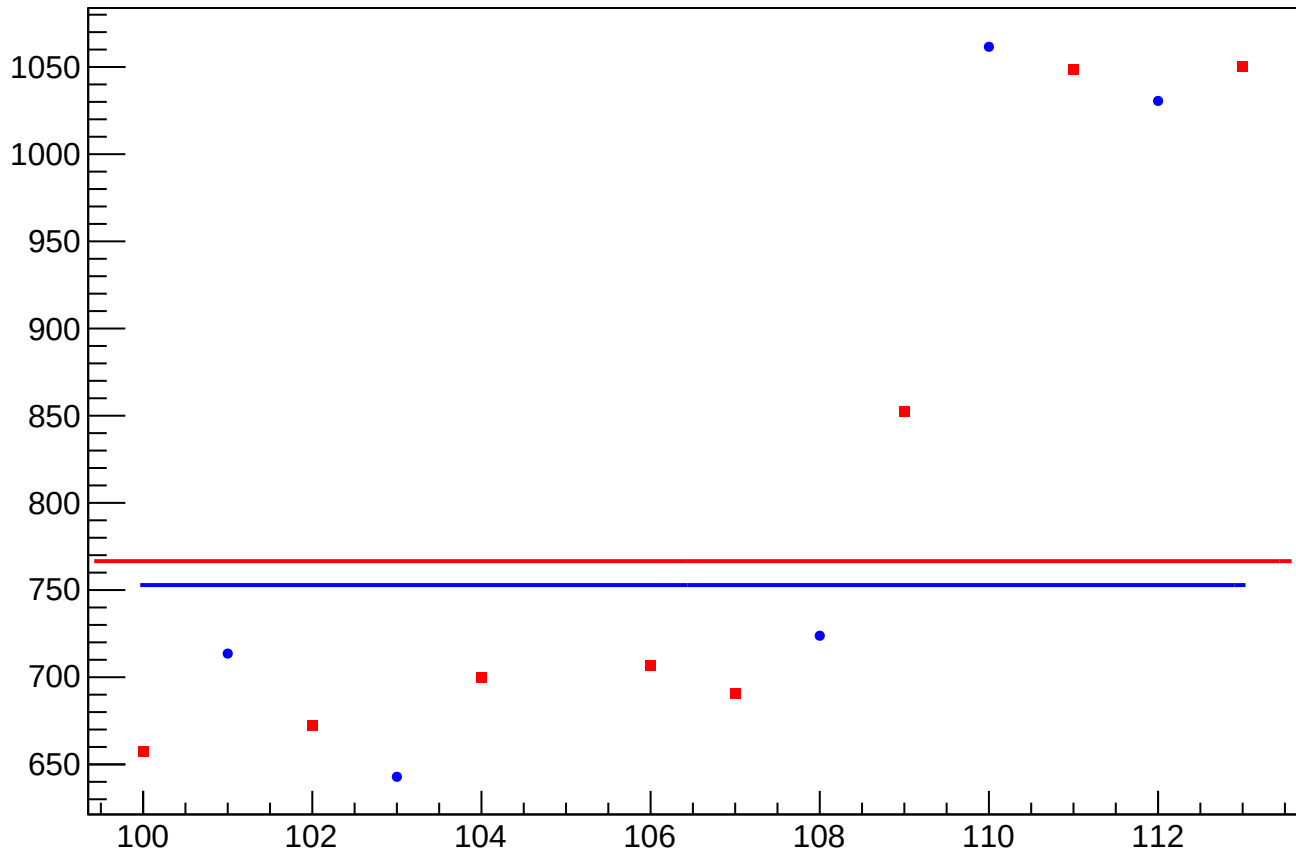
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 161.860+/-322.506  $\chi^2/\text{NDF}$ : 7.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_dit\_correction\_rms vs Slug



Right In: 752.854 $\pm$ 0.341  $\chi^2$ /NDF: 176496.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 766.572 $\pm$ 0.307  $\chi^2$ /NDF: 192974.4/7

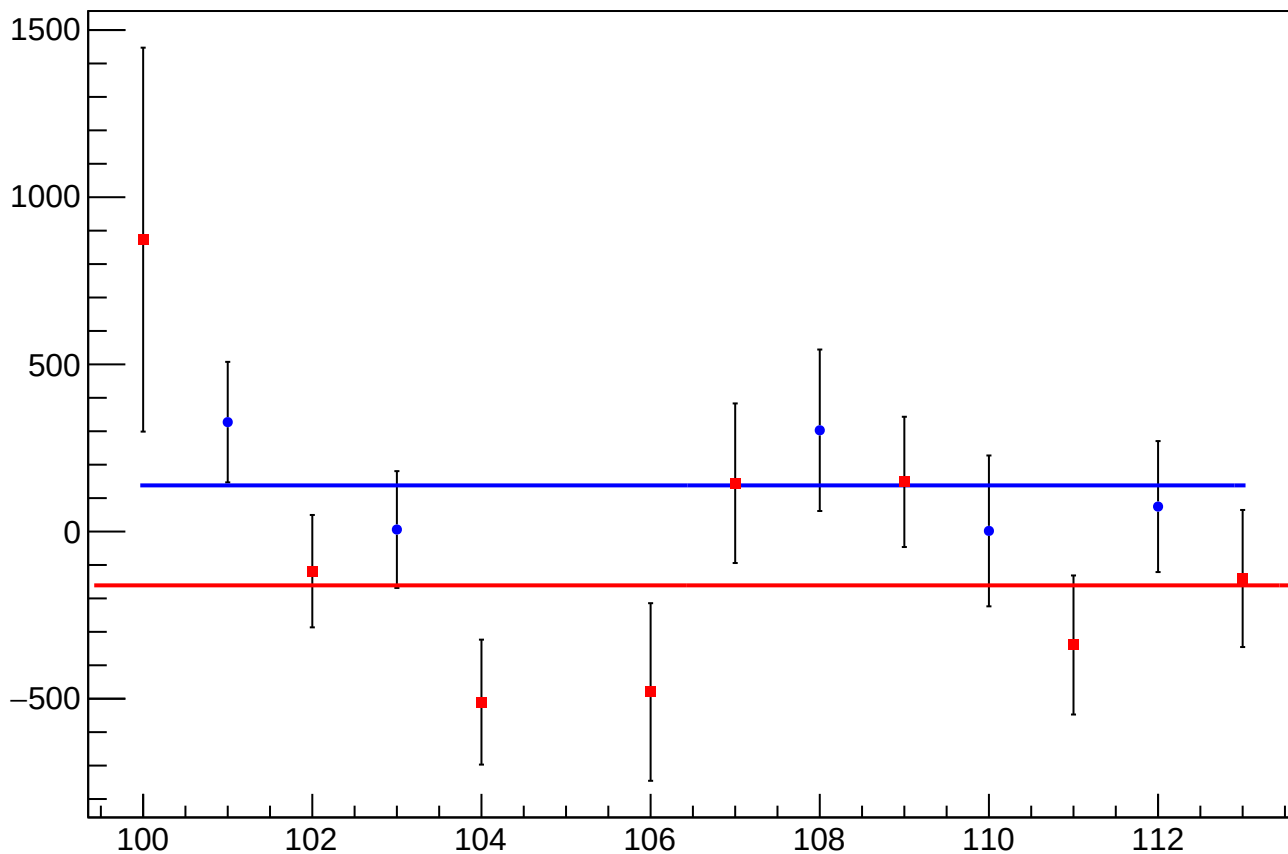
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 760.433 $\pm$ 0.228  $\chi^2$ /NDF: 370365.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam1\_mean vs Slug



Right In: 138.061 $\pm$ 88.944  $\chi^2$ /NDF: 2.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -160.953 $\pm$ 76.235  $\chi^2$ /NDF: 13.1/7

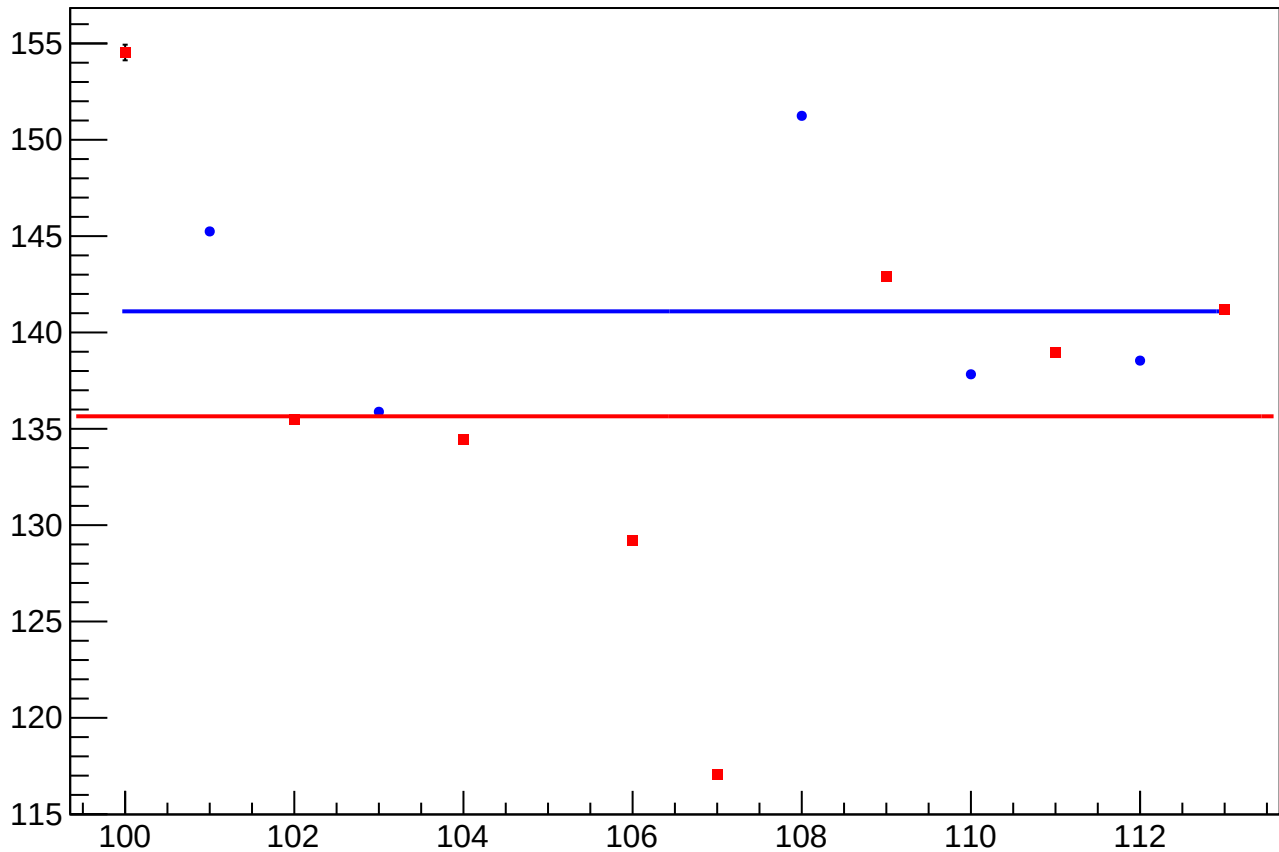
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -34.317 $\pm$ 57.883  $\chi^2$ /NDF: 22.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam1\_rms vs Slug



Right In: 141.096 $\pm$ 0.063  $\chi^2$ /NDF: 7130.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 135.649 $\pm$ 0.054  $\chi^2$ /NDF: 20292.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

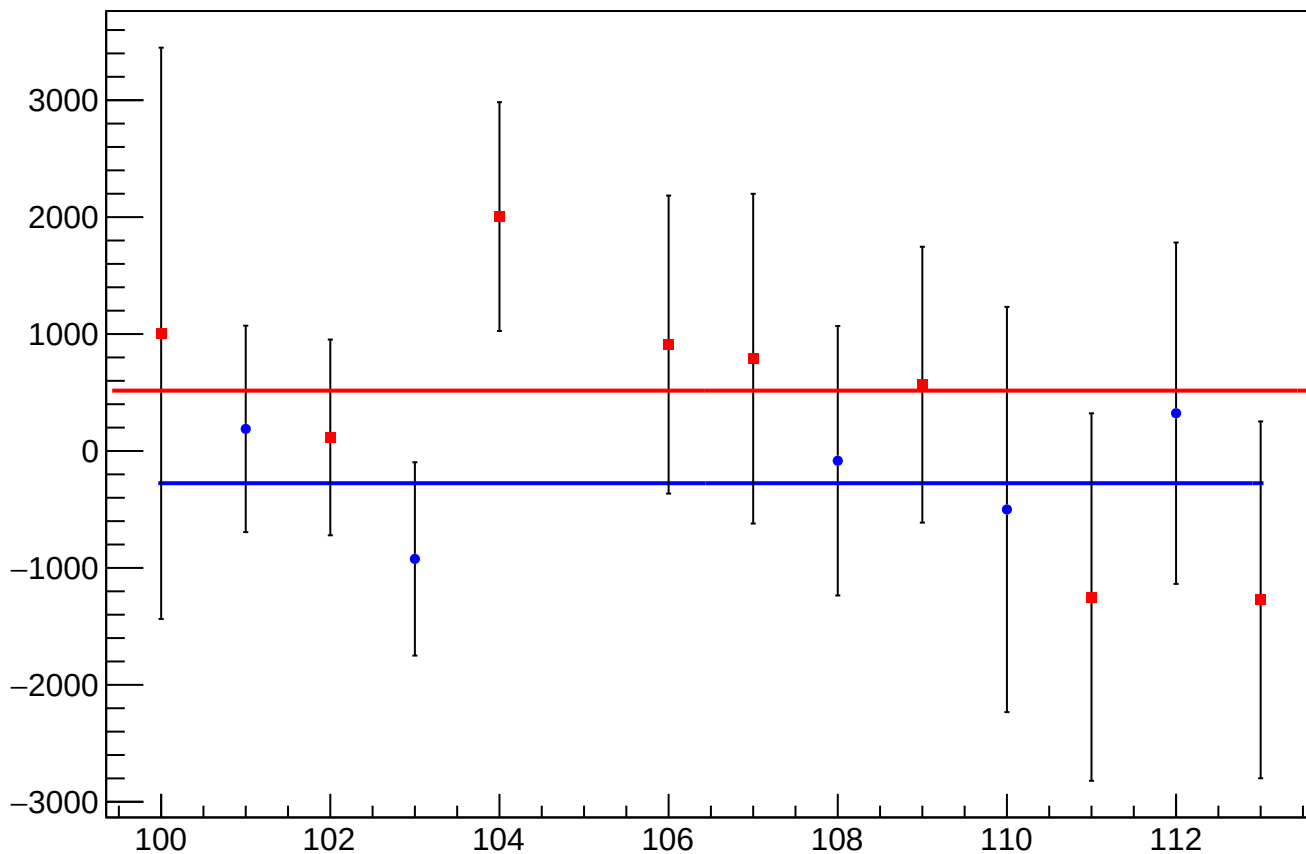
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 137.956 $\pm$ 0.041  $\chi^2$ /NDF: 31747.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam1\_eigen\_dit\_correction\_mean vs Slug



Right In: -275.618+/-482.117  $\chi^2/\text{NDF}$ : 1.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 516.164+/-433.873  $\chi^2/\text{NDF}$ : 5.4/7

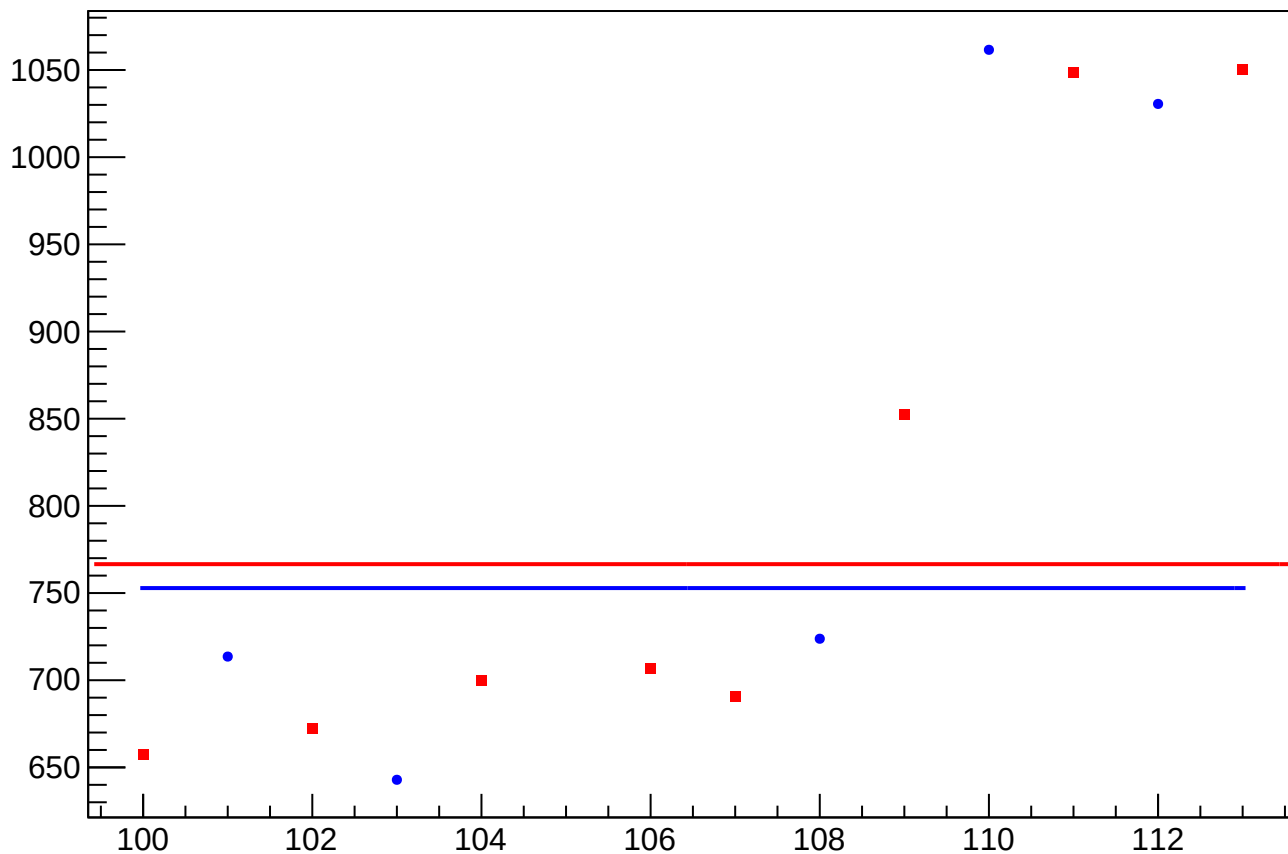
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 161.860+/-322.506  $\chi^2/\text{NDF}$ : 8.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_eigen\_dit\_correction\_rms vs Slug



Right In:  $752.853 \pm 0.341$   $\chi^2/\text{NDF}: 176496.5/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $766.571 \pm 0.307$   $\chi^2/\text{NDF}: 192974.0/7$

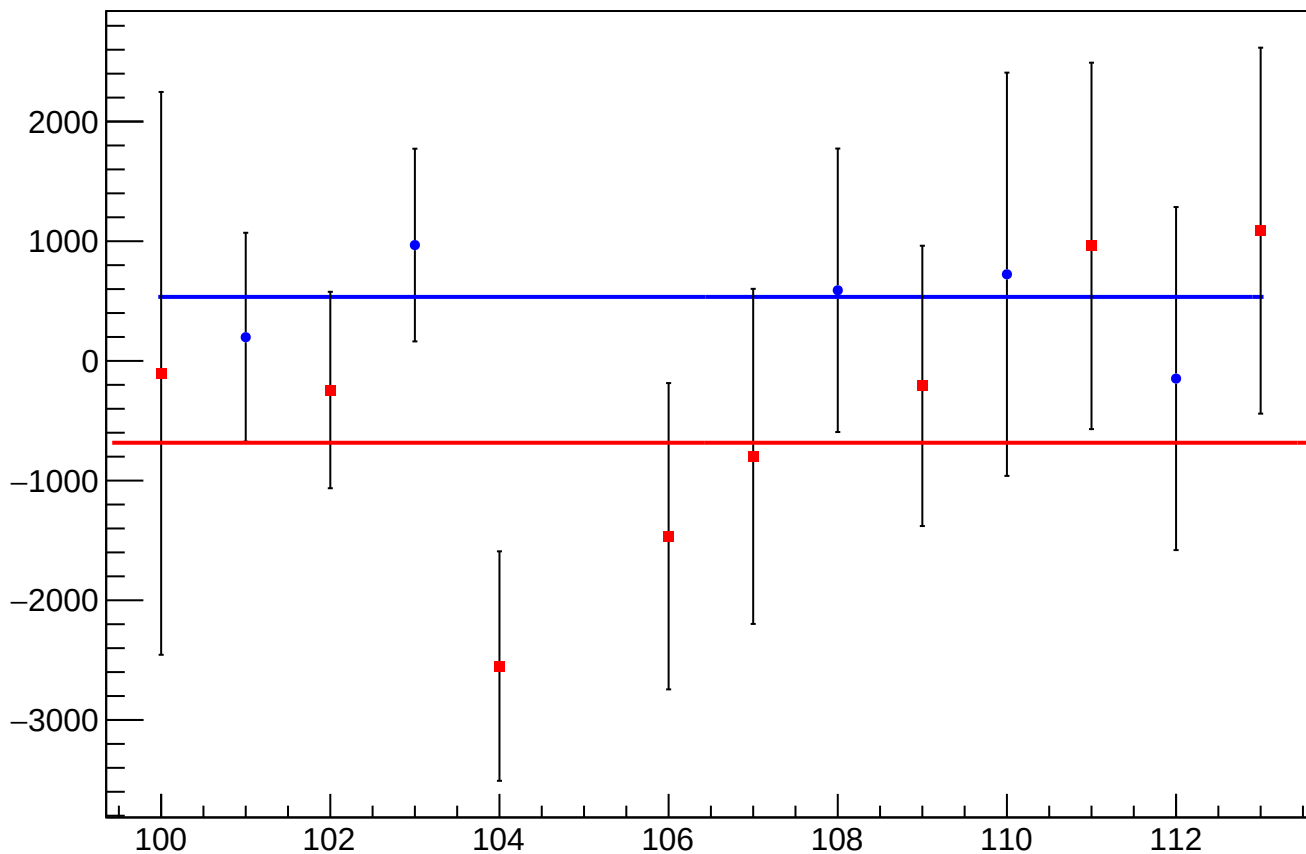
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $760.433 \pm 0.228$   $\chi^2/\text{NDF}: 370365.1/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# asym\_sam1\_mean vs Slug



Right In: 534.757 $\pm$ 476.254  $\chi^2$ /NDF: 0.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -683.814 $\pm$ 427.999  $\chi^2$ /NDF: 7.2/7

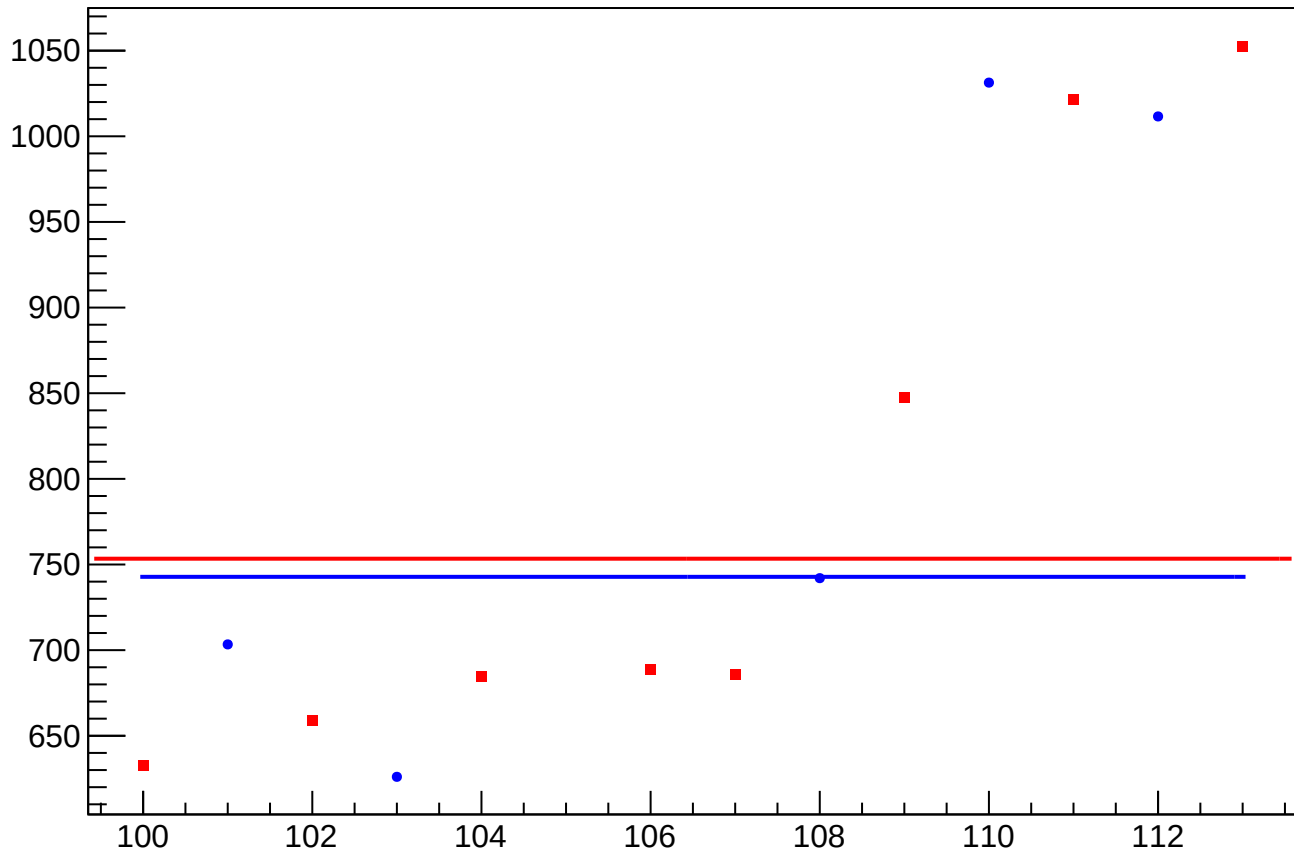
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -139.373 $\pm$ 318.338  $\chi^2$ /NDF: 11.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_rms vs Slug



Right In: 742.806 $\pm$ 0.337  $\chi^2$ /NDF: 175192.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 753.392 $\pm$ 0.303  $\chi^2$ /NDF: 202623.4/7

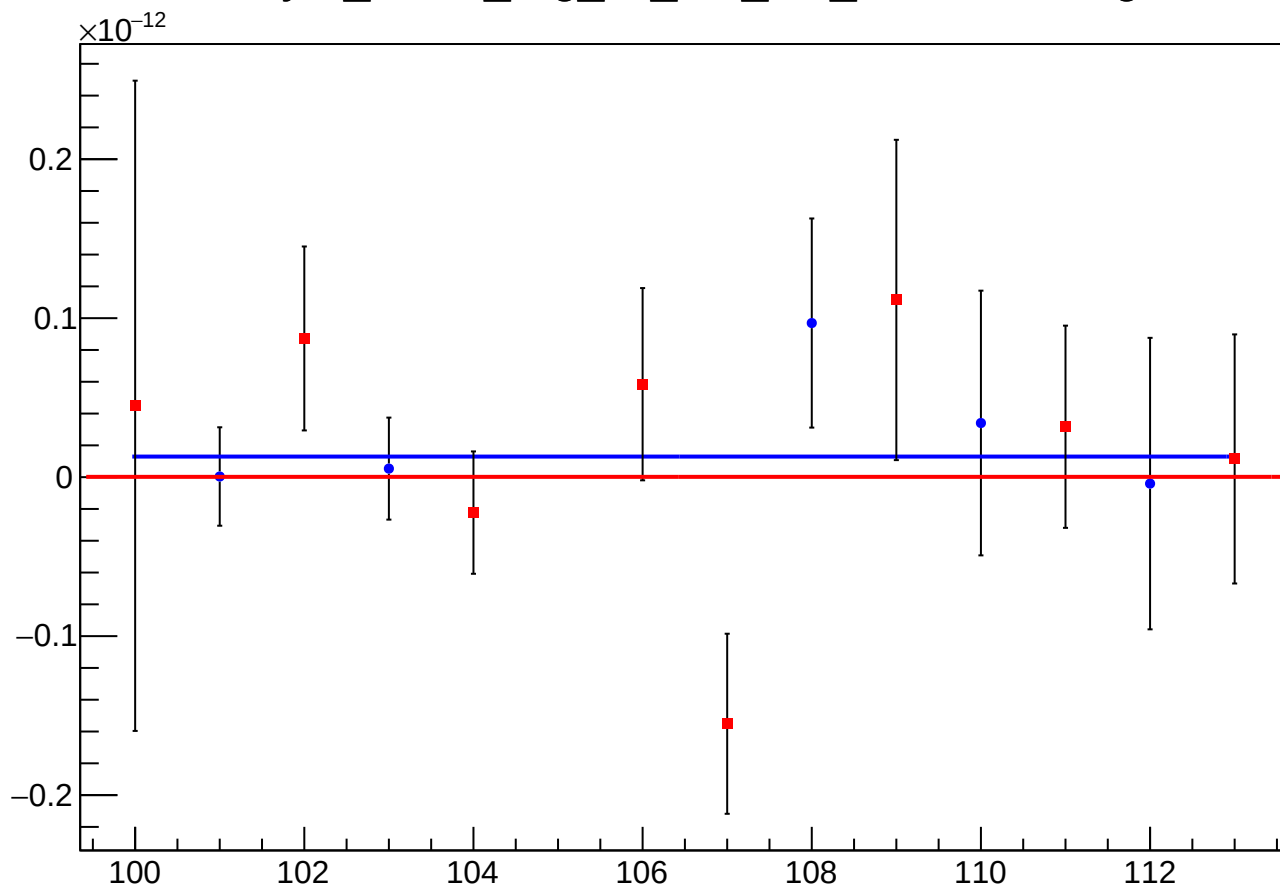
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 748.662 $\pm$ 0.225  $\chi^2$ /NDF: 378362.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.6/7

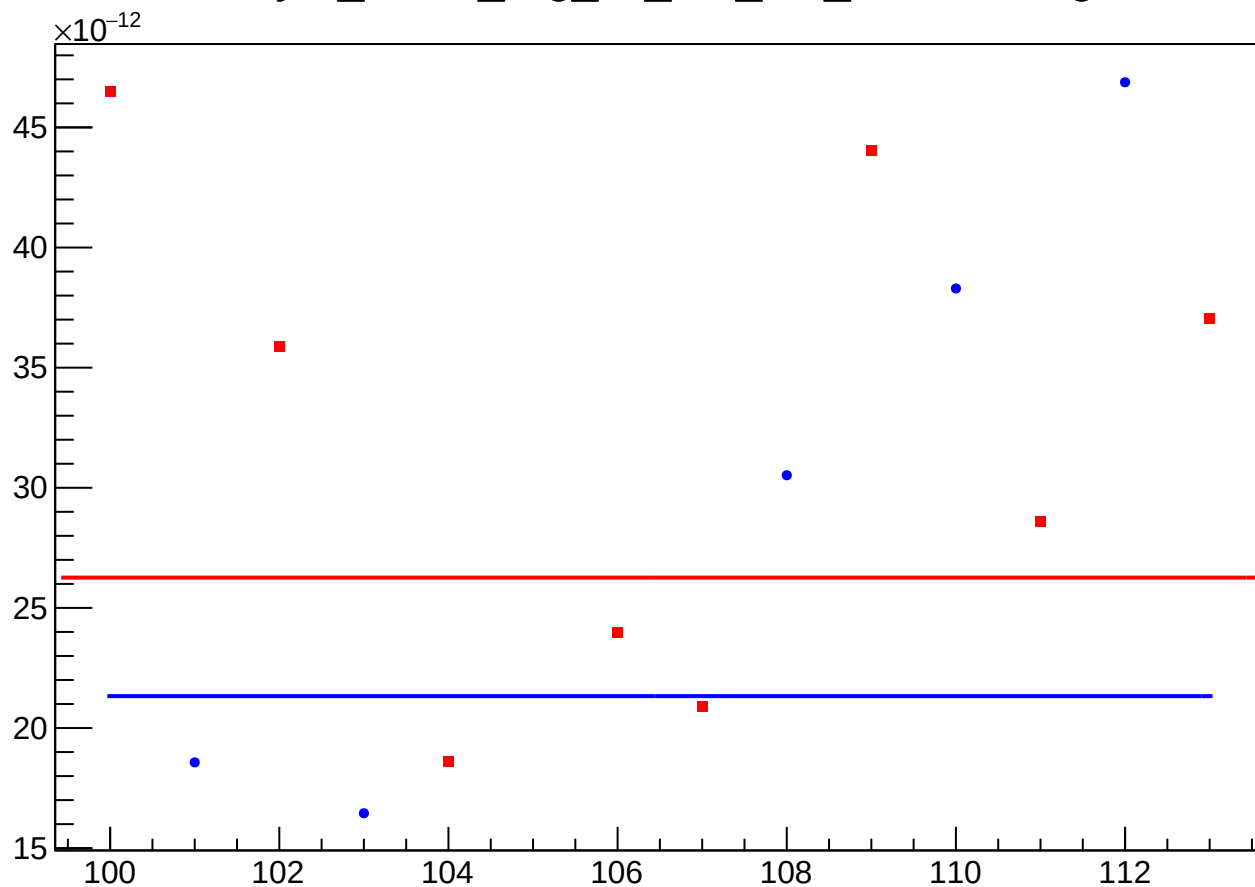
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 339583.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 277827.3/7

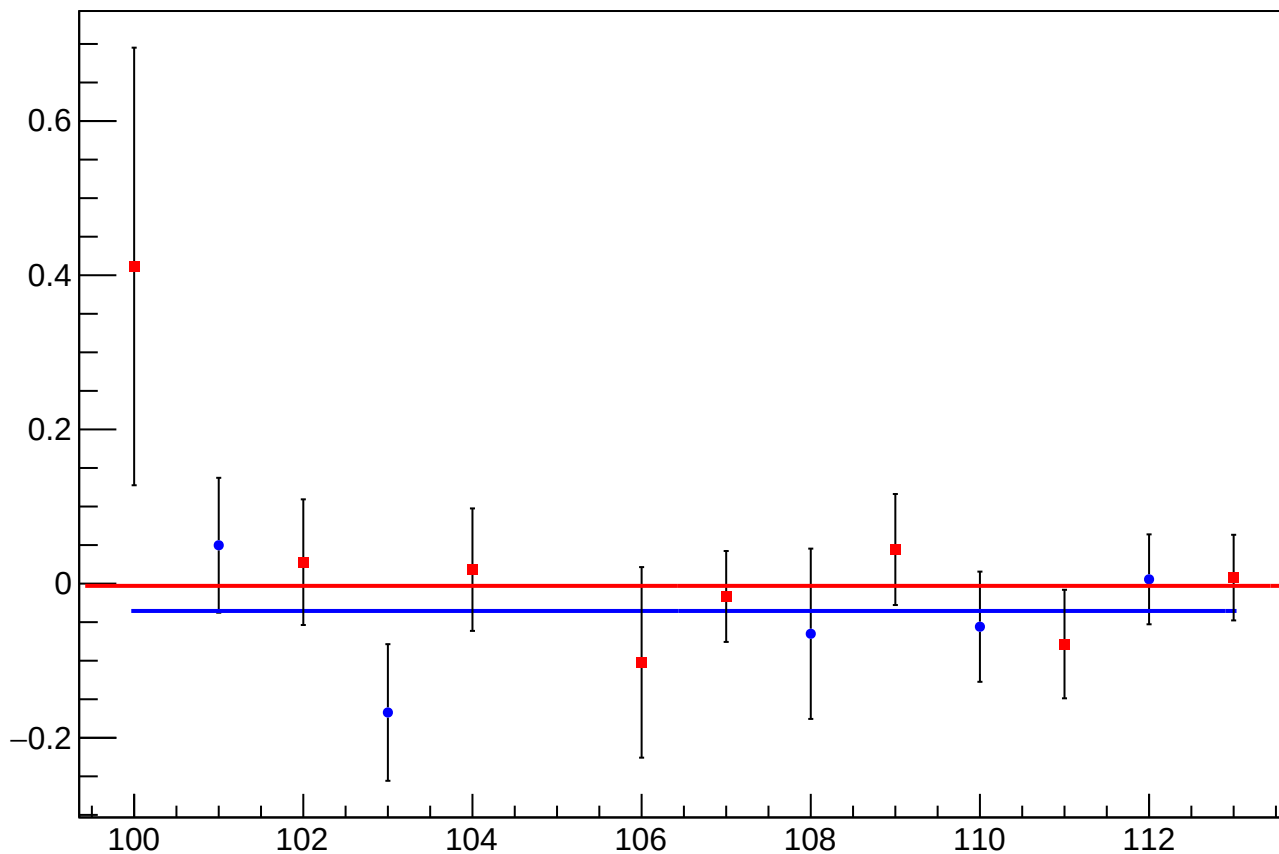
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 672931.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.035 \pm 0.035$   $\chi^2/\text{NDF}$ : 3.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.003 \pm 0.027$   $\chi^2/\text{NDF}$ : 4.7/7

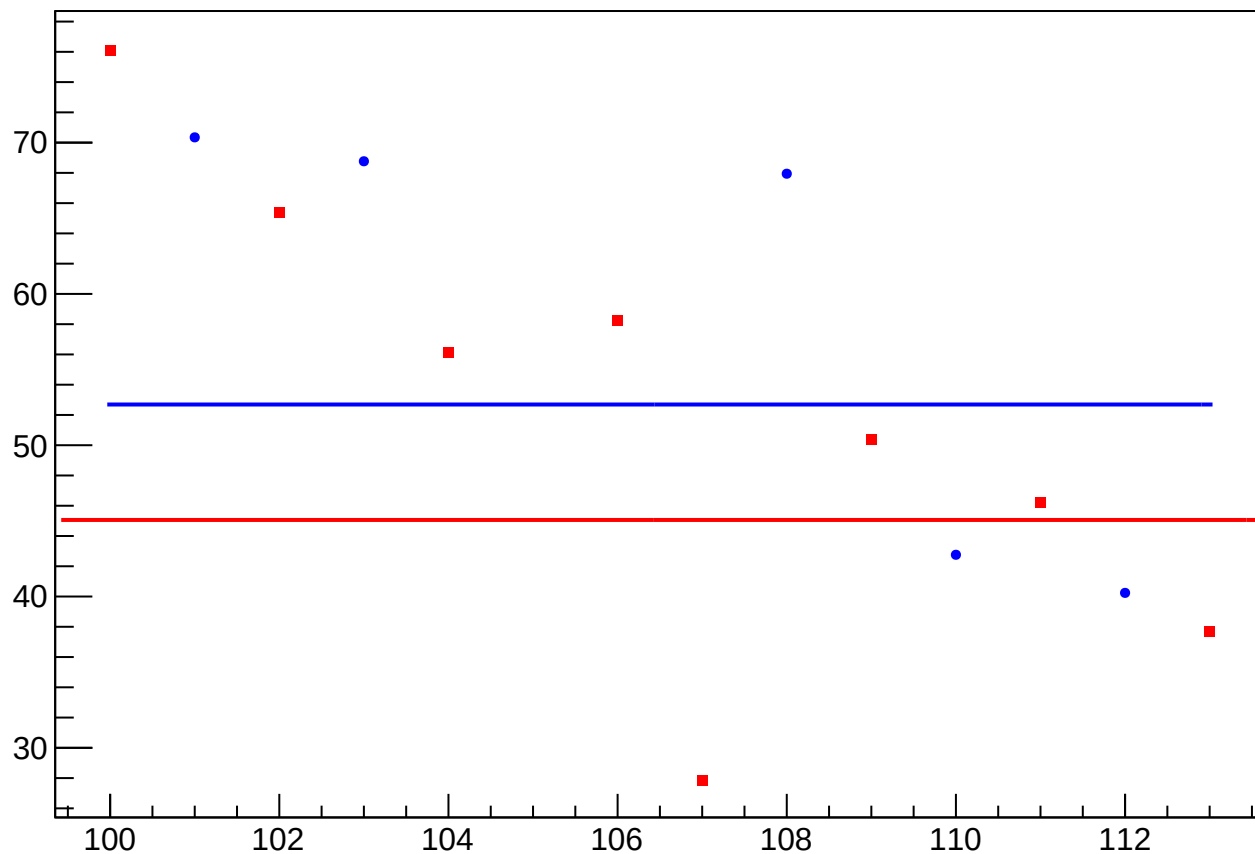
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.015 \pm 0.021$   $\chi^2/\text{NDF}$ : 9.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 52.691+/-0.025  $\chi^2/\text{NDF}$ : 315218.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 45.060+/-0.019  $\chi^2/\text{NDF}$ : 426327.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

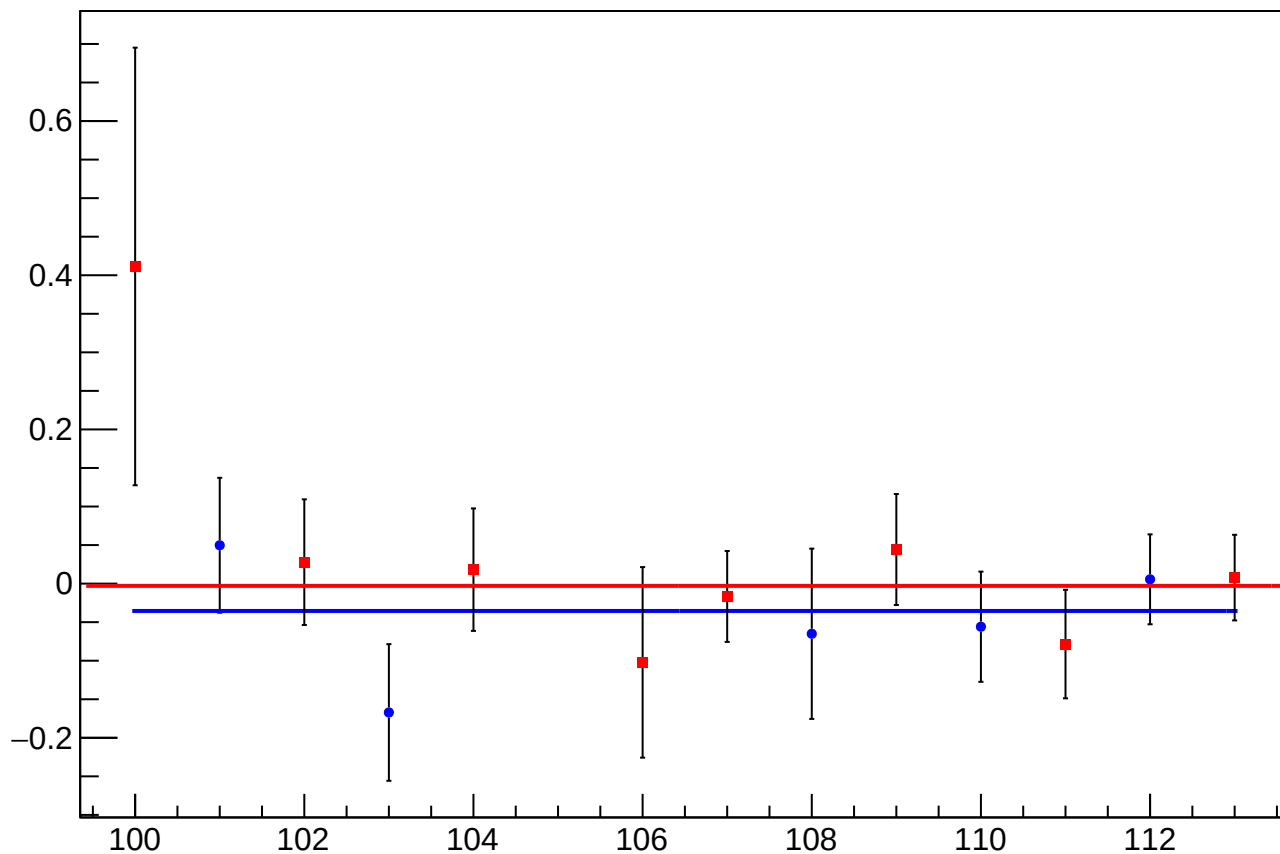
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.908+/-0.015  $\chi^2/\text{NDF}$ : 802113.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam1\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.035 $\pm$ 0.035  $\chi^2$ /NDF: 3.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.003 $\pm$ 0.027  $\chi^2$ /NDF: 4.7/7

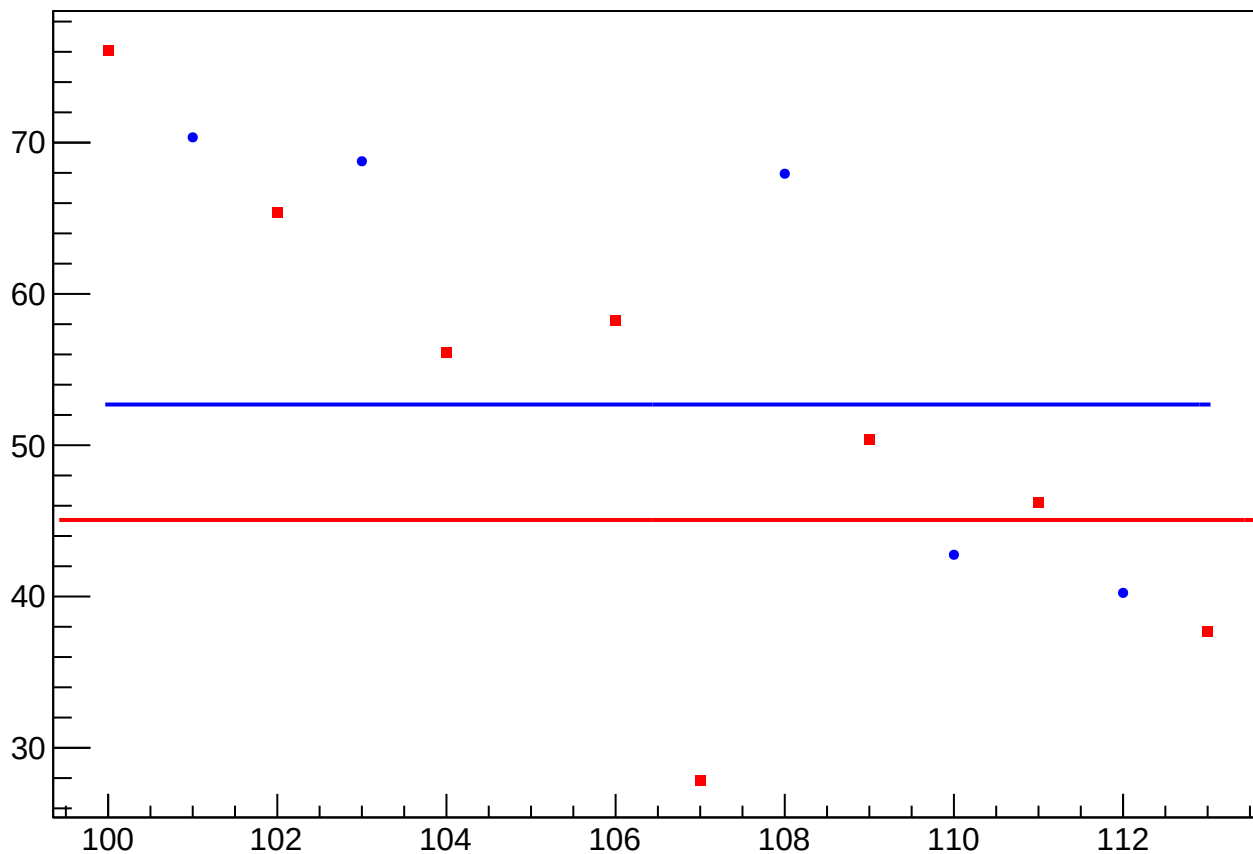
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.015 $\pm$ 0.021  $\chi^2$ /NDF: 9.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 52.691 $\pm$ 0.025  $\chi^2$ /NDF: 315218.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 45.060 $\pm$ 0.019  $\chi^2$ /NDF: 426327.4/7

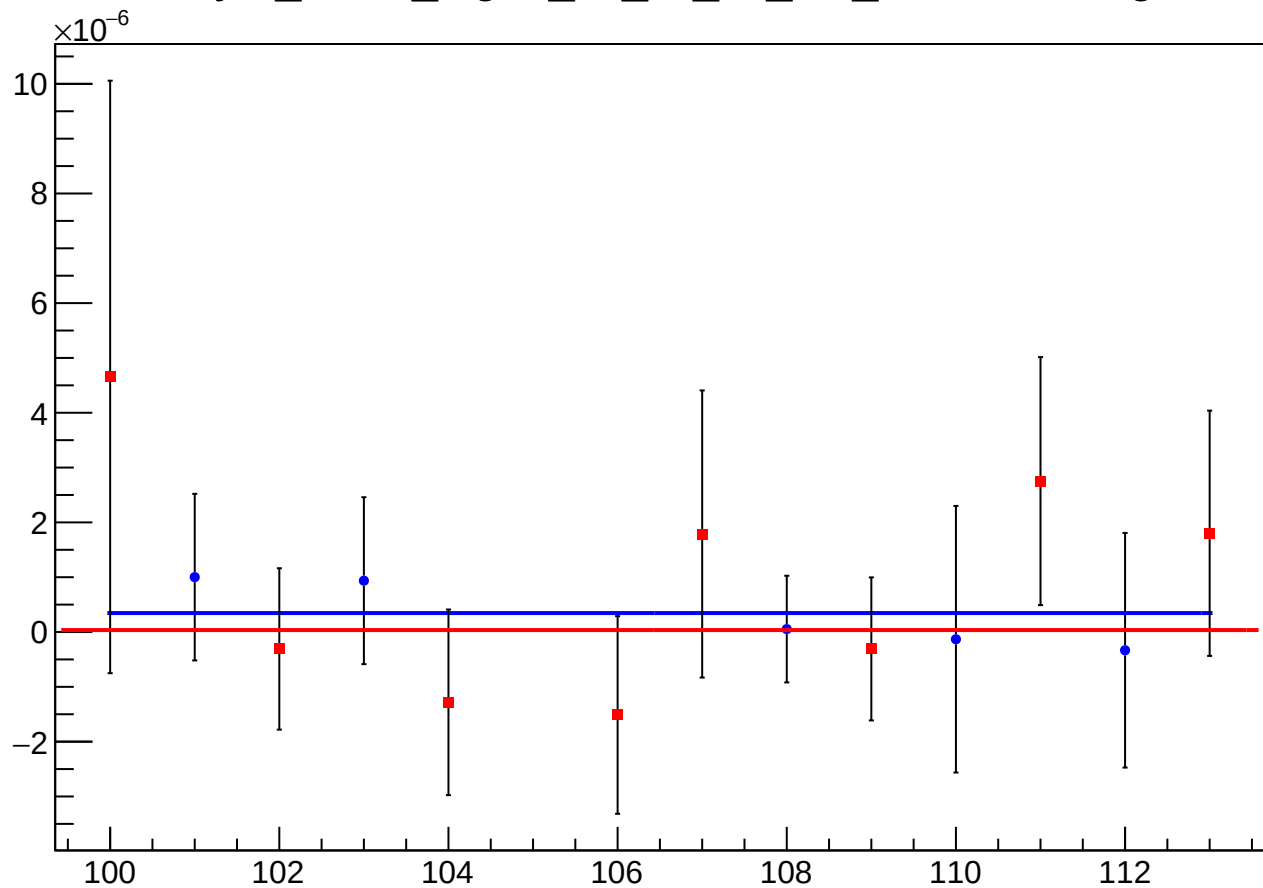
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.908 $\pm$ 0.015  $\chi^2$ /NDF: 802113.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam1\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4.7/7

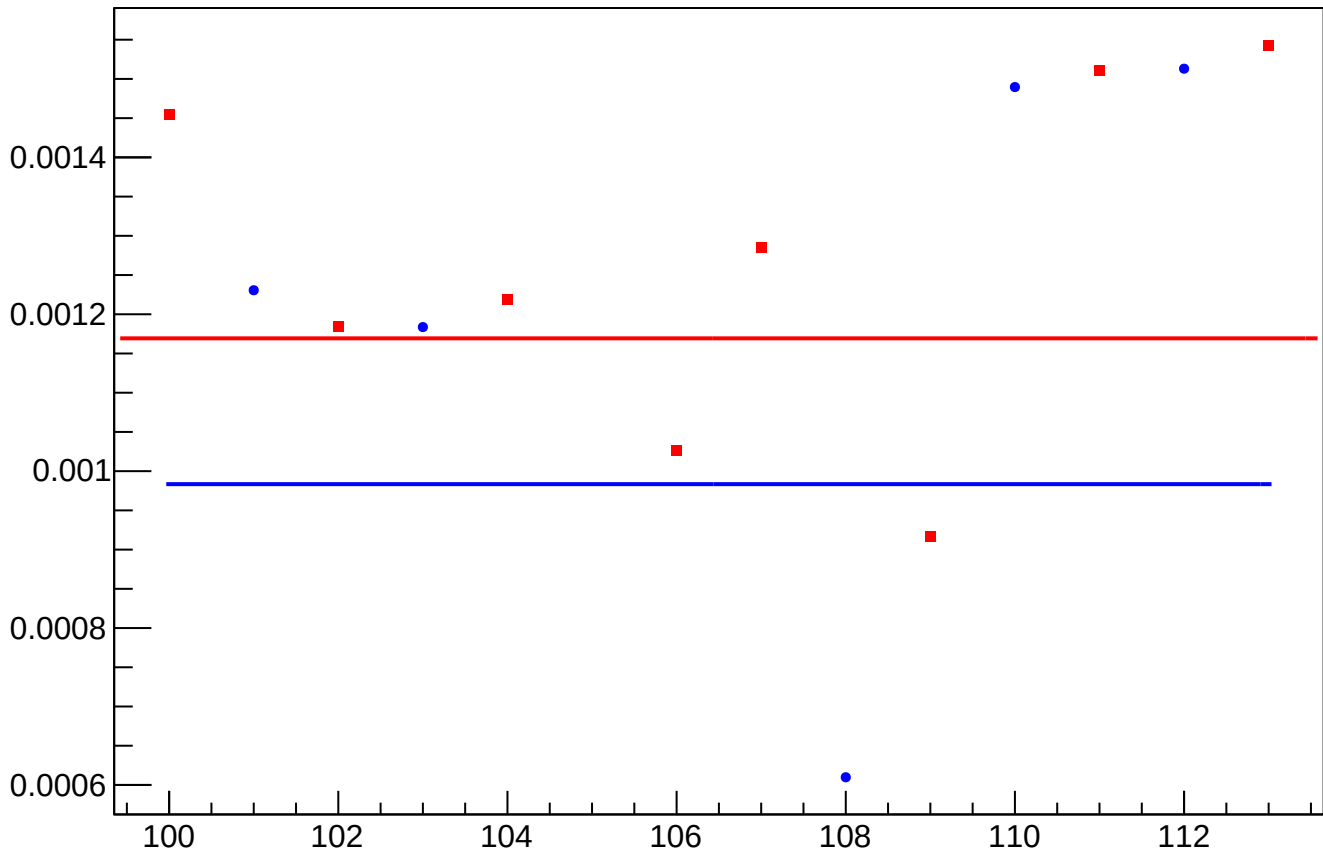
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 5.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 591535.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 200225.8/7

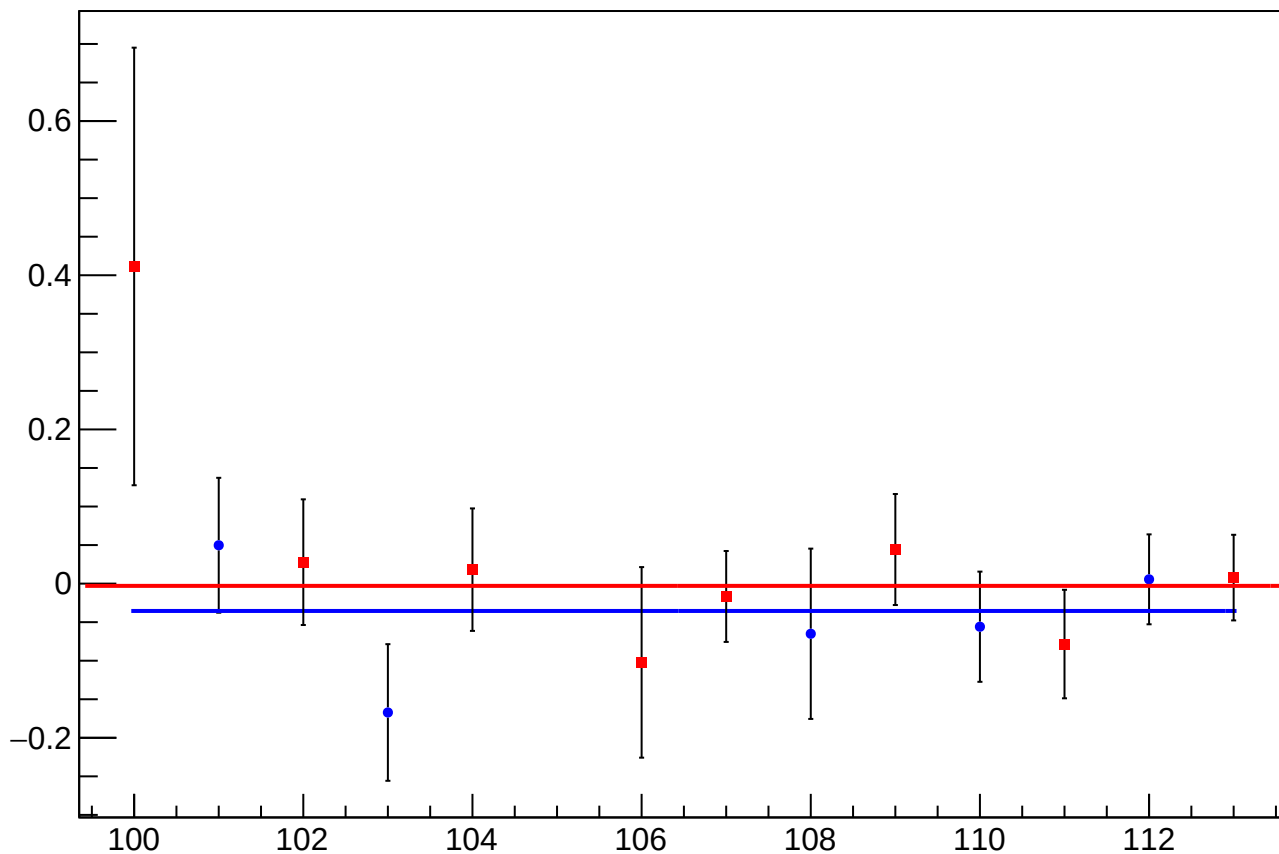
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 871013.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam1\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.035 \pm 0.035$   $\chi^2/\text{NDF}$ : 3.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.003 \pm 0.027$   $\chi^2/\text{NDF}$ : 4.7/7

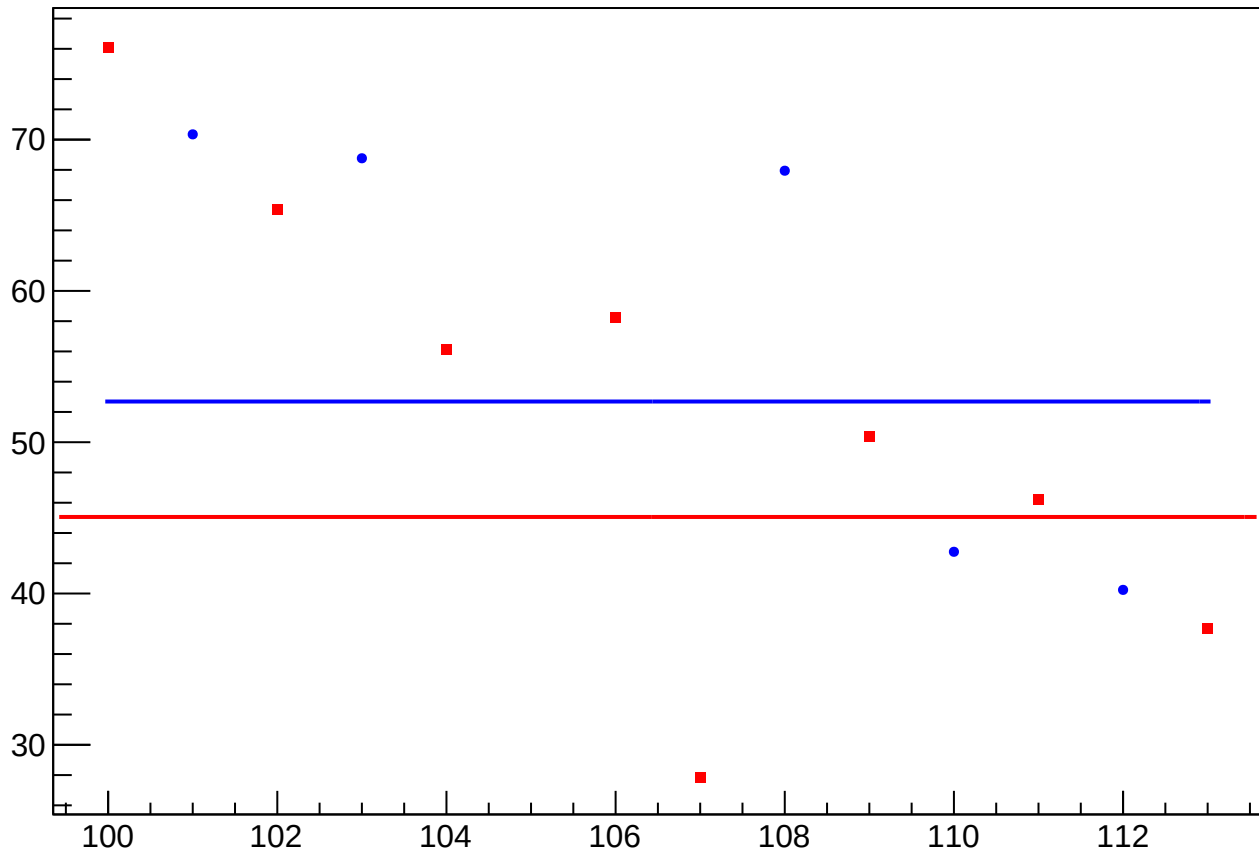
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.015 \pm 0.021$   $\chi^2/\text{NDF}$ : 9.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 52.690 $\pm$ 0.025  $\chi^2$ /NDF: 315228.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 45.060 $\pm$ 0.019  $\chi^2$ /NDF: 426328.5/7

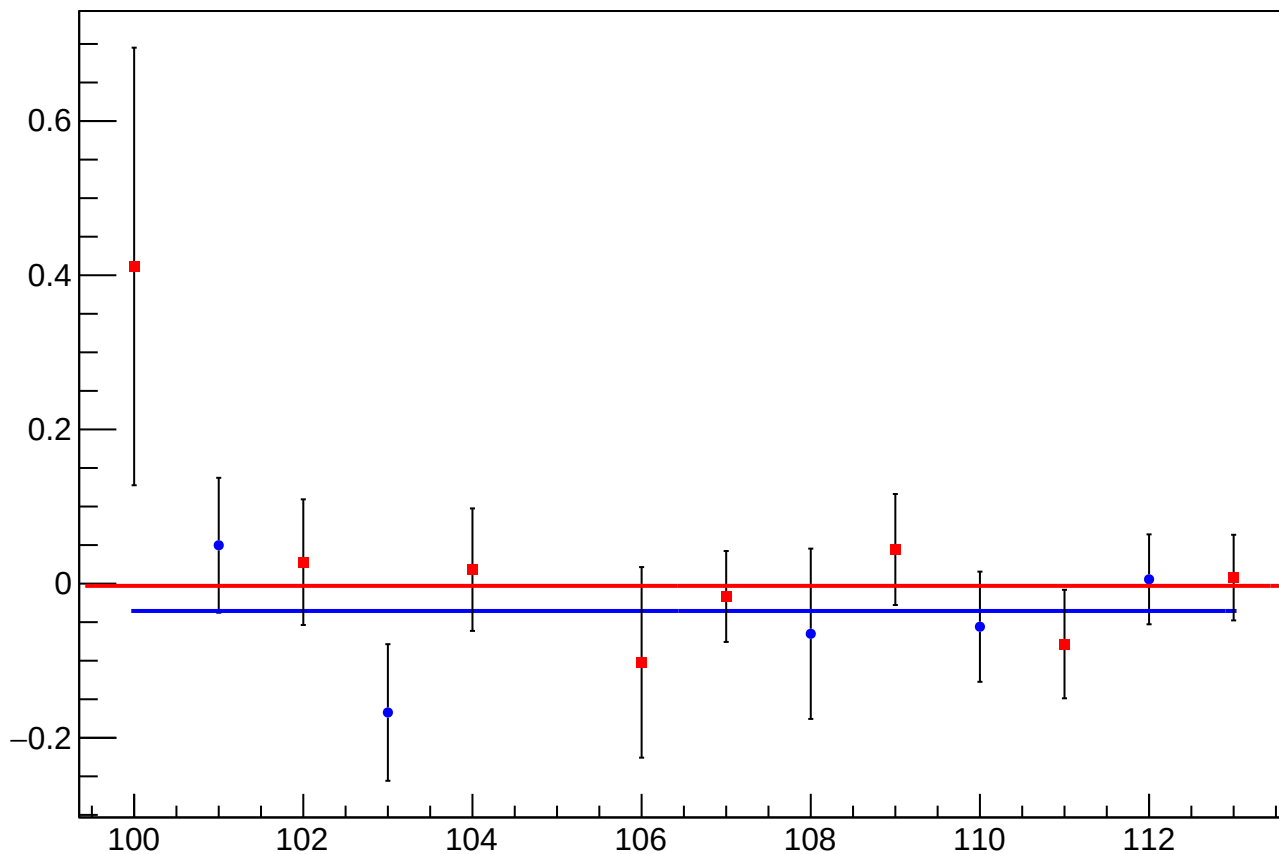
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.907 $\pm$ 0.015  $\chi^2$ /NDF: 802123.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam1\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.035 \pm 0.035$   $\chi^2/\text{NDF}$ : 3.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.003 \pm 0.027$   $\chi^2/\text{NDF}$ : 4.7/7

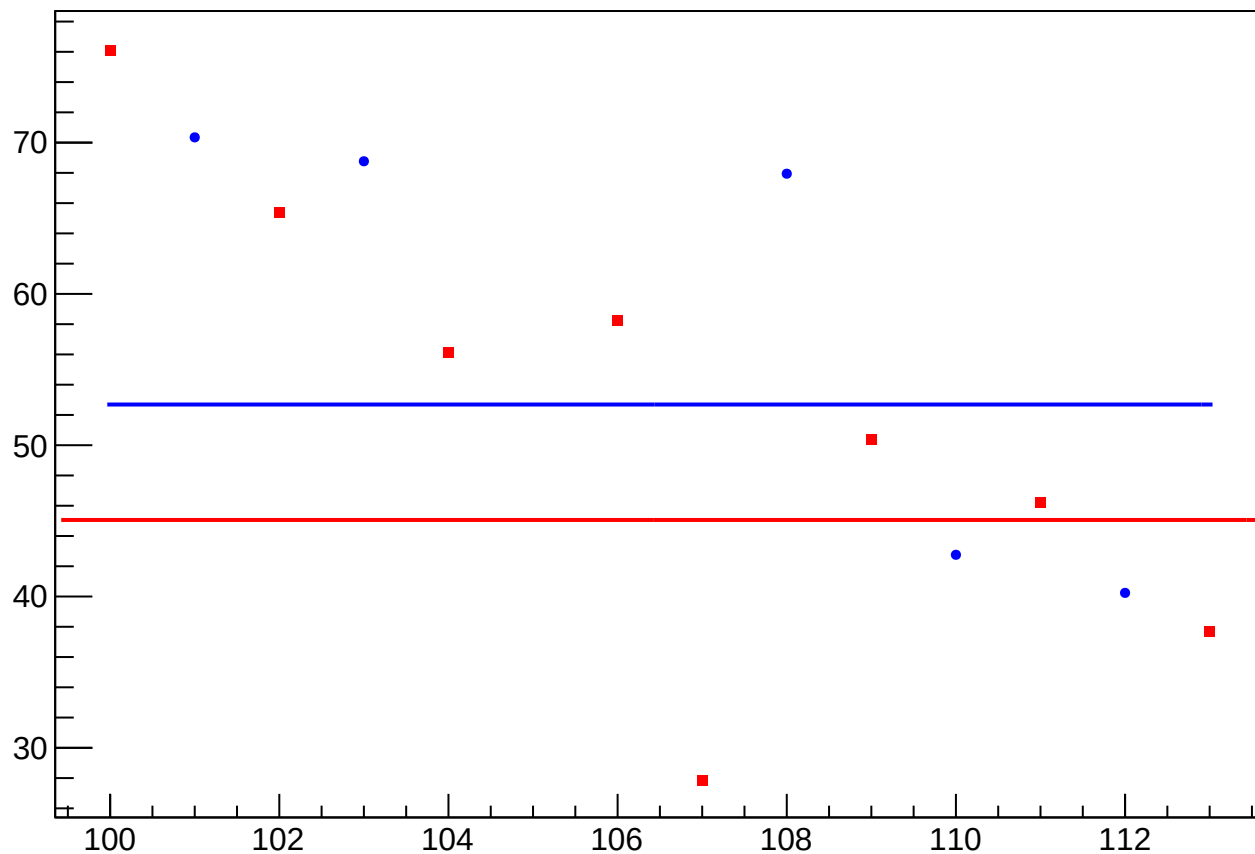
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.015 \pm 0.021$   $\chi^2/\text{NDF}$ : 9.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam1\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 52.690 $\pm$ 0.025  $\chi^2$ /NDF: 315228.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 45.060 $\pm$ 0.019  $\chi^2$ /NDF: 426328.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

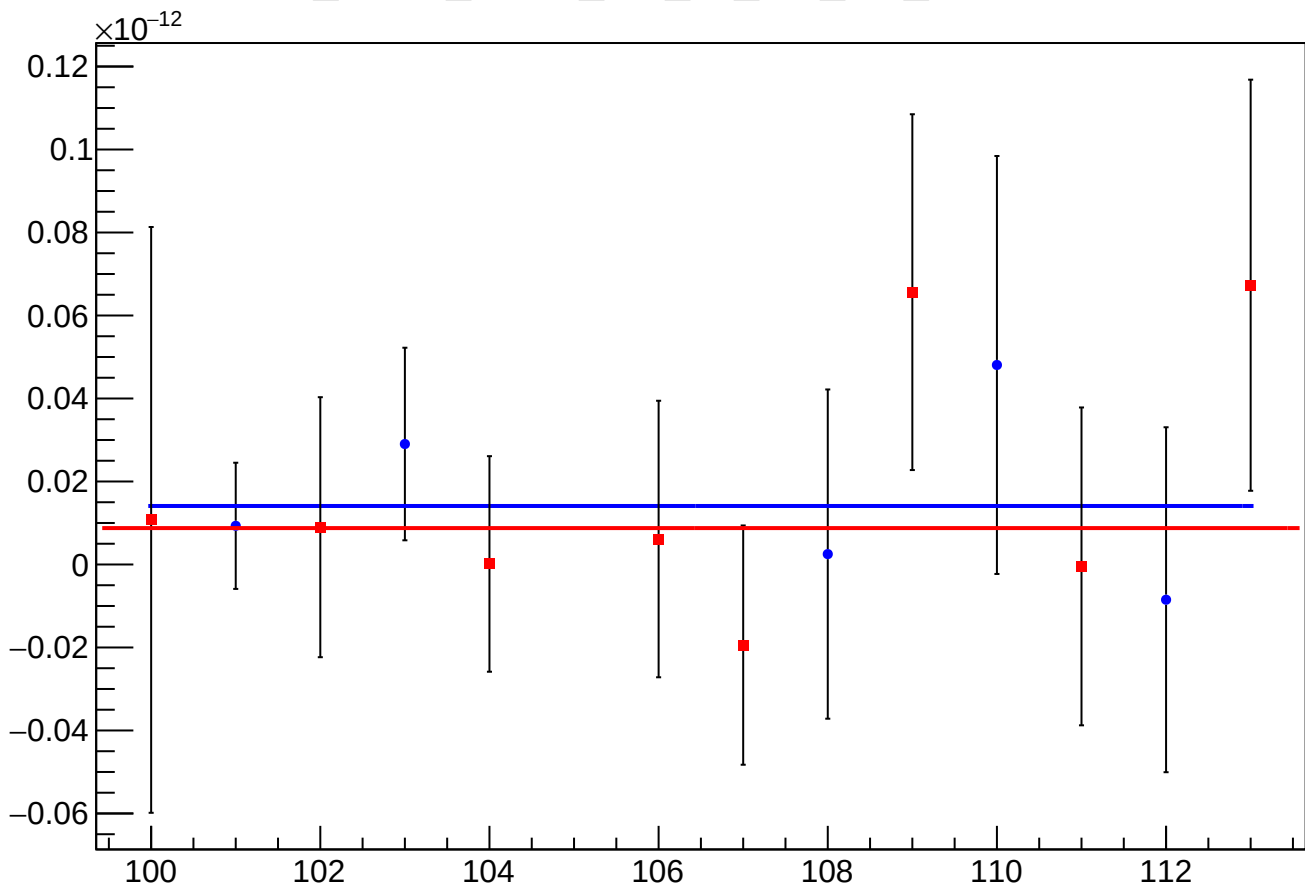
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.907 $\pm$ 0.015  $\chi^2$ /NDF: 802123.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam1\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.3/7

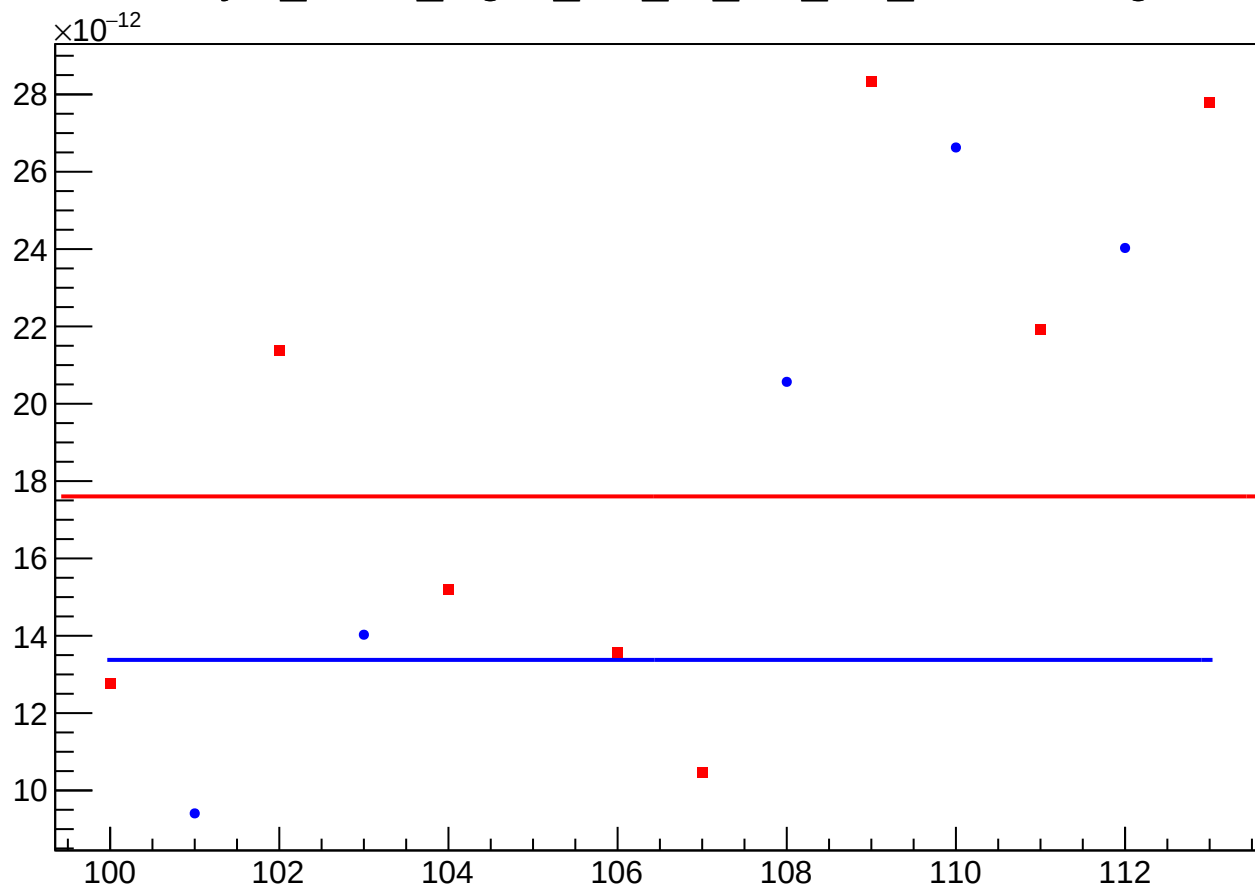
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 473477.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 442078.7/7

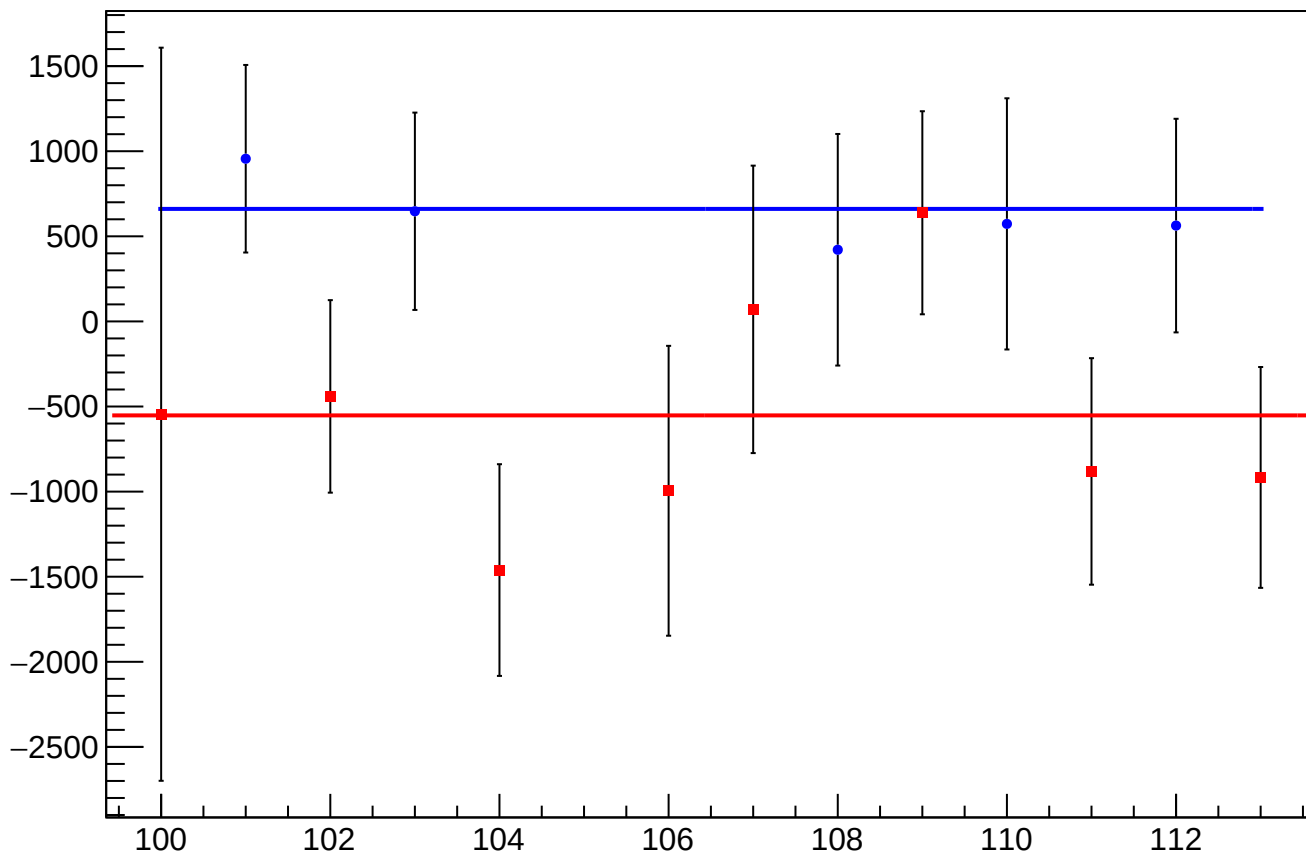
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1041605.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_mean vs Slug



Right In: 661.071+/-279.451  $\chi^2/\text{NDF}$ : 0.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -552.189+/-248.817  $\chi^2/\text{NDF}$ : 7.5/7

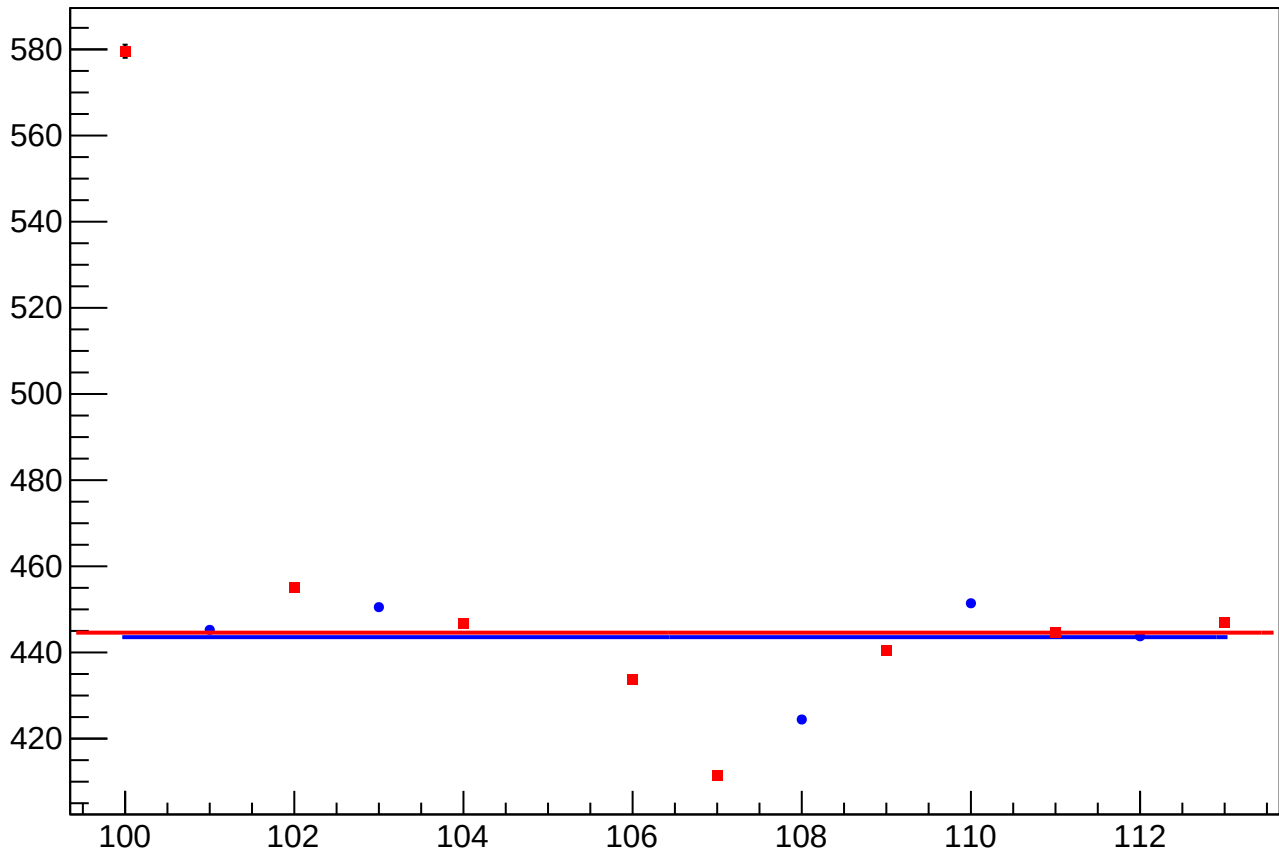
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -15.680+/-185.831  $\chi^2/\text{NDF}$ : 18.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_rms vs Slug



Right In: 443.552 $\pm$ 0.198  $\chi^2$ /NDF: 2113.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 444.599 $\pm$ 0.176  $\chi^2$ /NDF: 12069.7/7

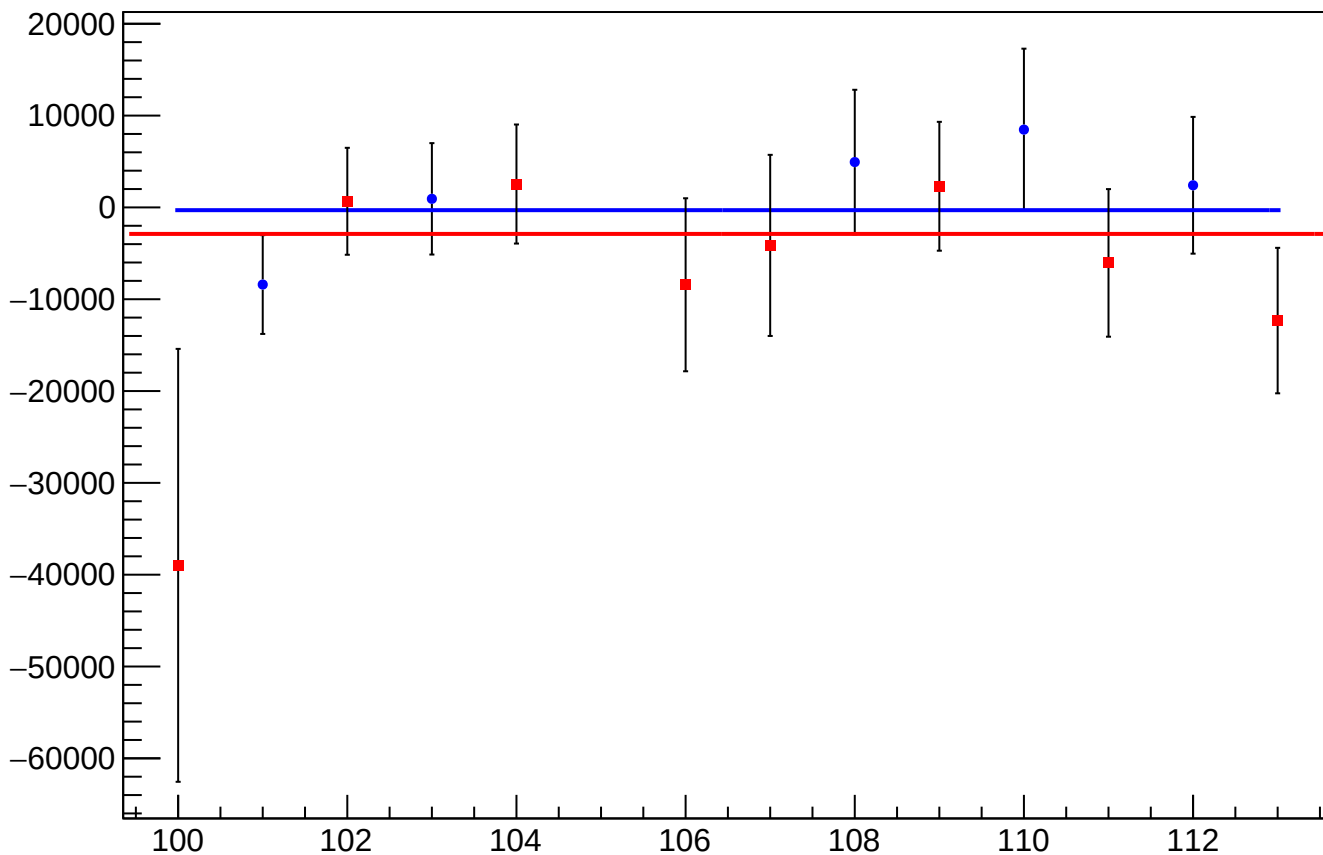
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 444.136 $\pm$ 0.131  $\chi^2$ /NDF: 14199.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_reg\_correction\_mean vs Slug



Right In: -300.355+/-3032.289  $\chi^2/\text{NDF}$ : 3.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2886.867+/-2791.257  $\chi^2/\text{NDF}$ : 5.9/7

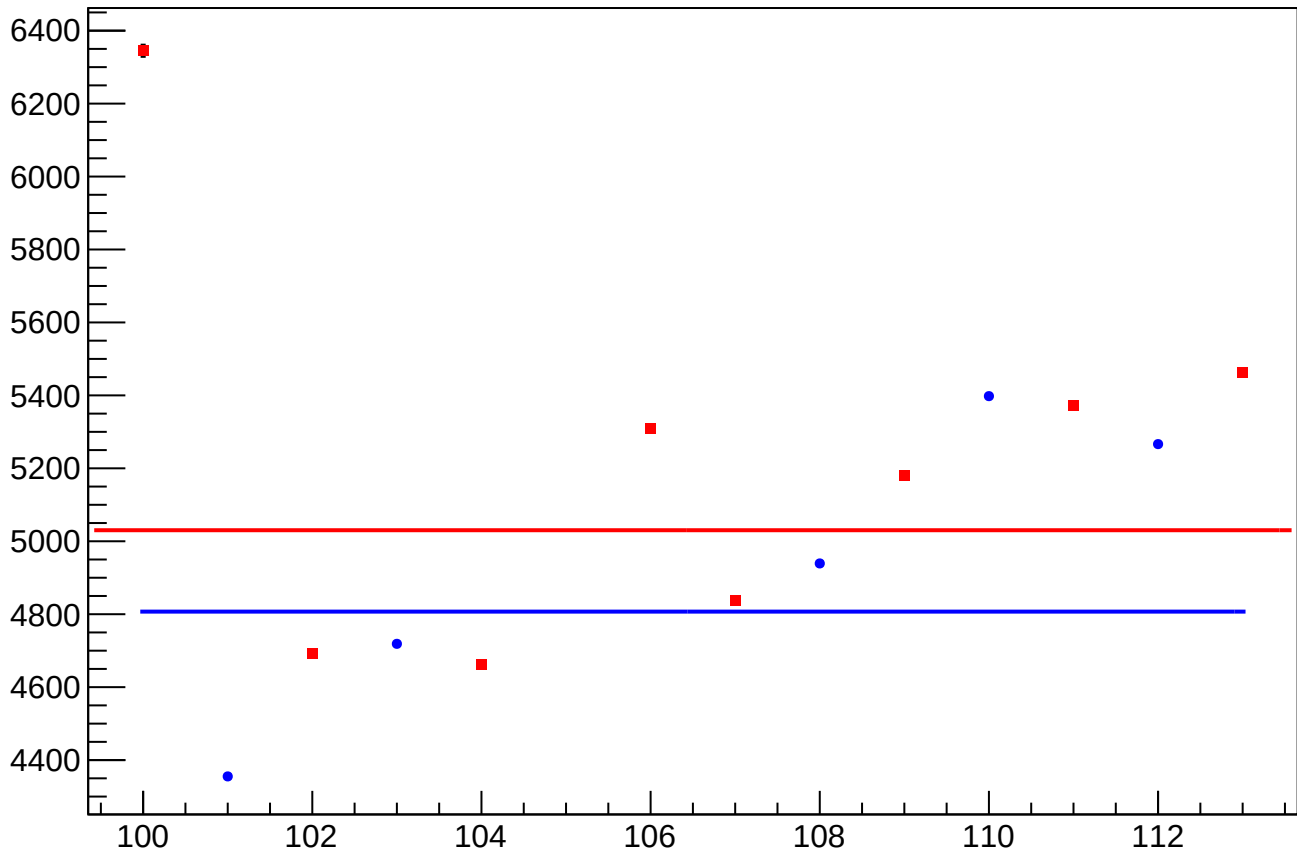
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1700.482+/-2053.649  $\chi^2/\text{NDF}$ : 10.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_reg\_correction\_rms vs Slug



Right In: 4807.126+/-2.144  $\chi^2/\text{NDF}$ : 31682.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5030.287+/-1.974  $\chi^2/\text{NDF}$ : 32416.4/7

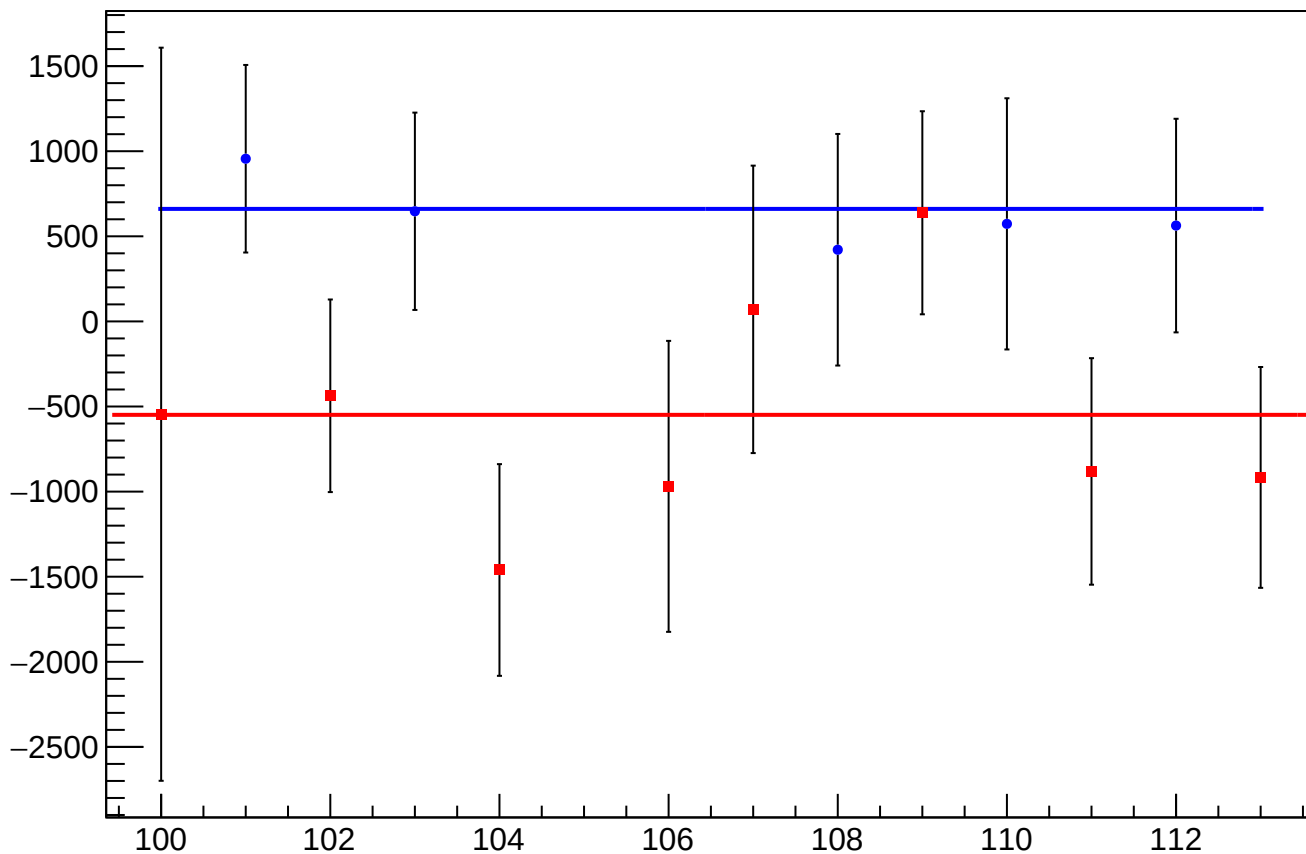
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4927.927+/-1.452  $\chi^2/\text{NDF}$ : 69962.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam2\_mean vs Slug



Right In: 661.062 $\pm$ 279.452  $\chi^2$ /NDF: 0.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -548.994 $\pm$ 248.917  $\chi^2$ /NDF: 7.5/7

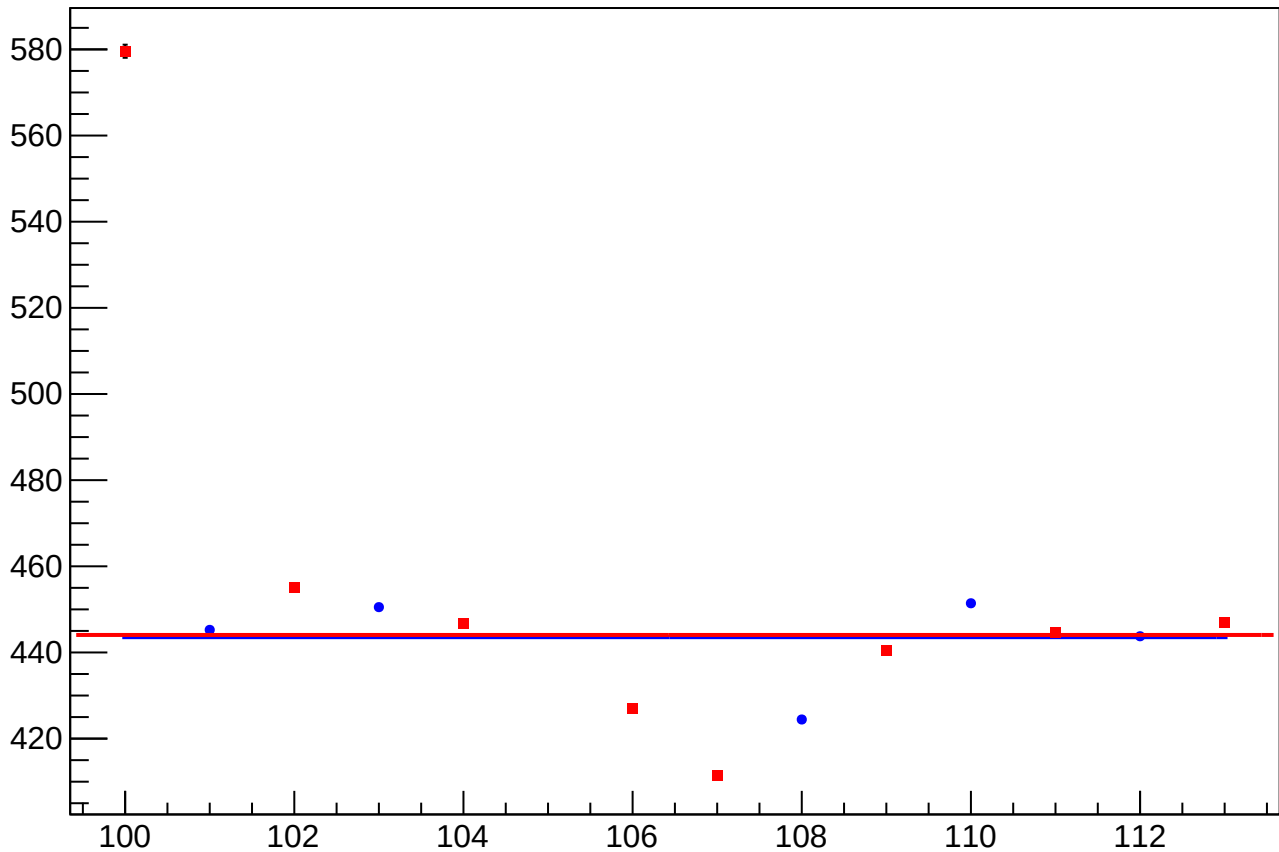
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -13.663 $\pm$ 185.872  $\chi^2$ /NDF: 18.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam2\_rms vs Slug



Right In: 443.553 $\pm$ 0.198  $\chi^2$ /NDF: 2113.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 444.064 $\pm$ 0.176  $\chi^2$ /NDF: 12612.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

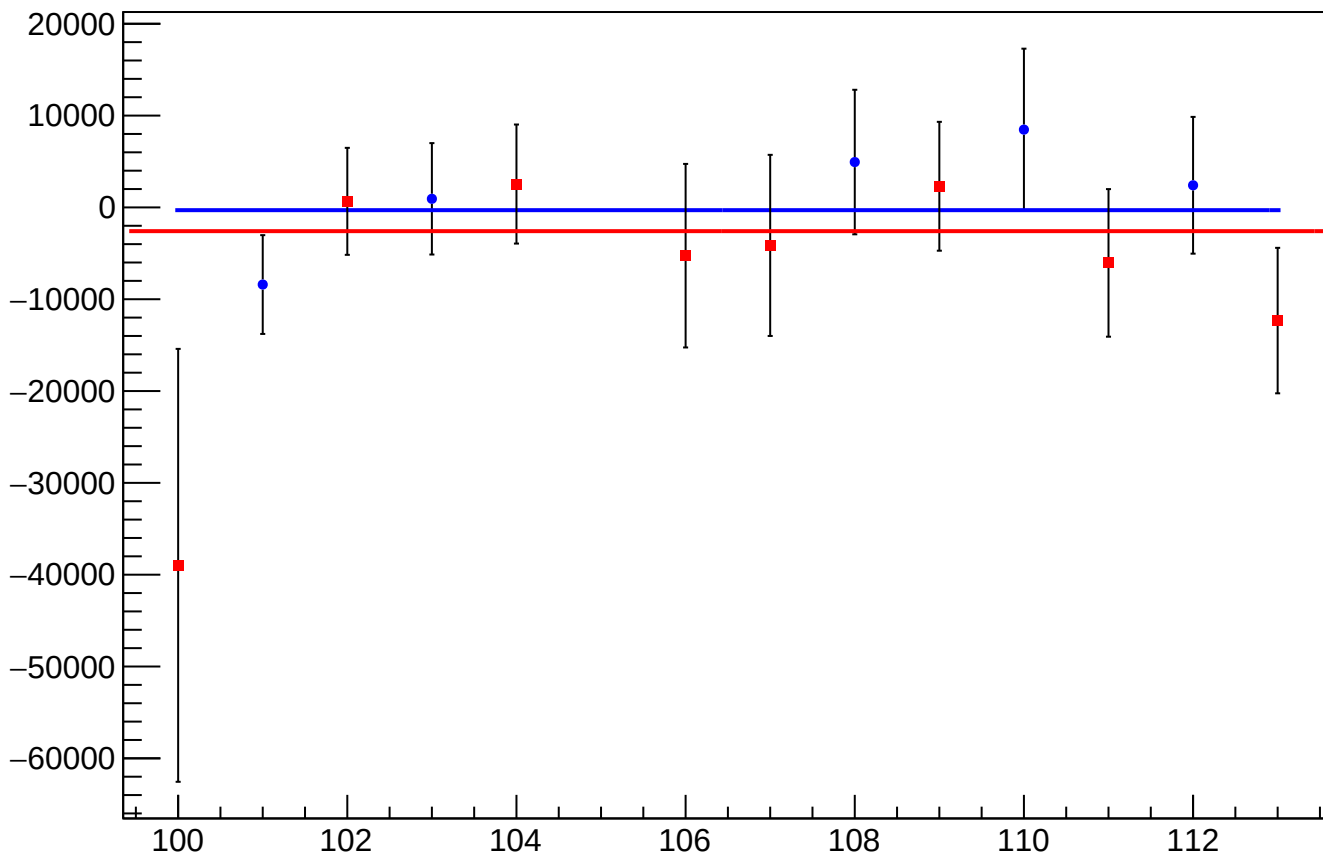
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 443.838 $\pm$ 0.131  $\chi^2$ /NDF: 14730.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam2\_cor\_correction\_mean vs Slug



Right In: -299.890+/-3032.319  $\chi^2/\text{NDF}$ : 3.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2585.166+/-2805.351  $\chi^2/\text{NDF}$ : 5.6/7

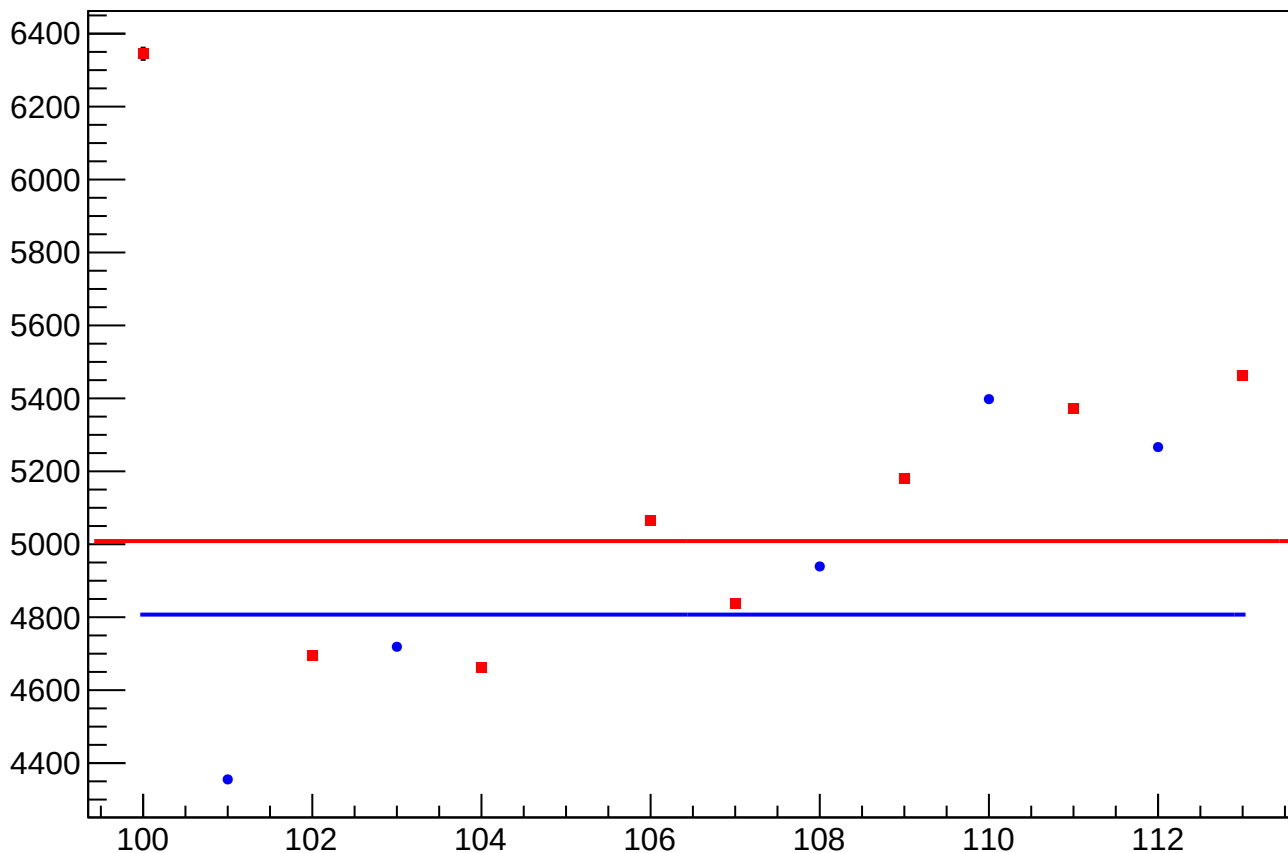
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1531.245+/-2059.252  $\chi^2/\text{NDF}$ : 9.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_cor\_correction\_rms vs Slug



Right In: 4807.173+/-2.144  $\chi^2/\text{NDF}$ : 31680.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5008.794+/-1.984  $\chi^2/\text{NDF}$ : 30453.5/7

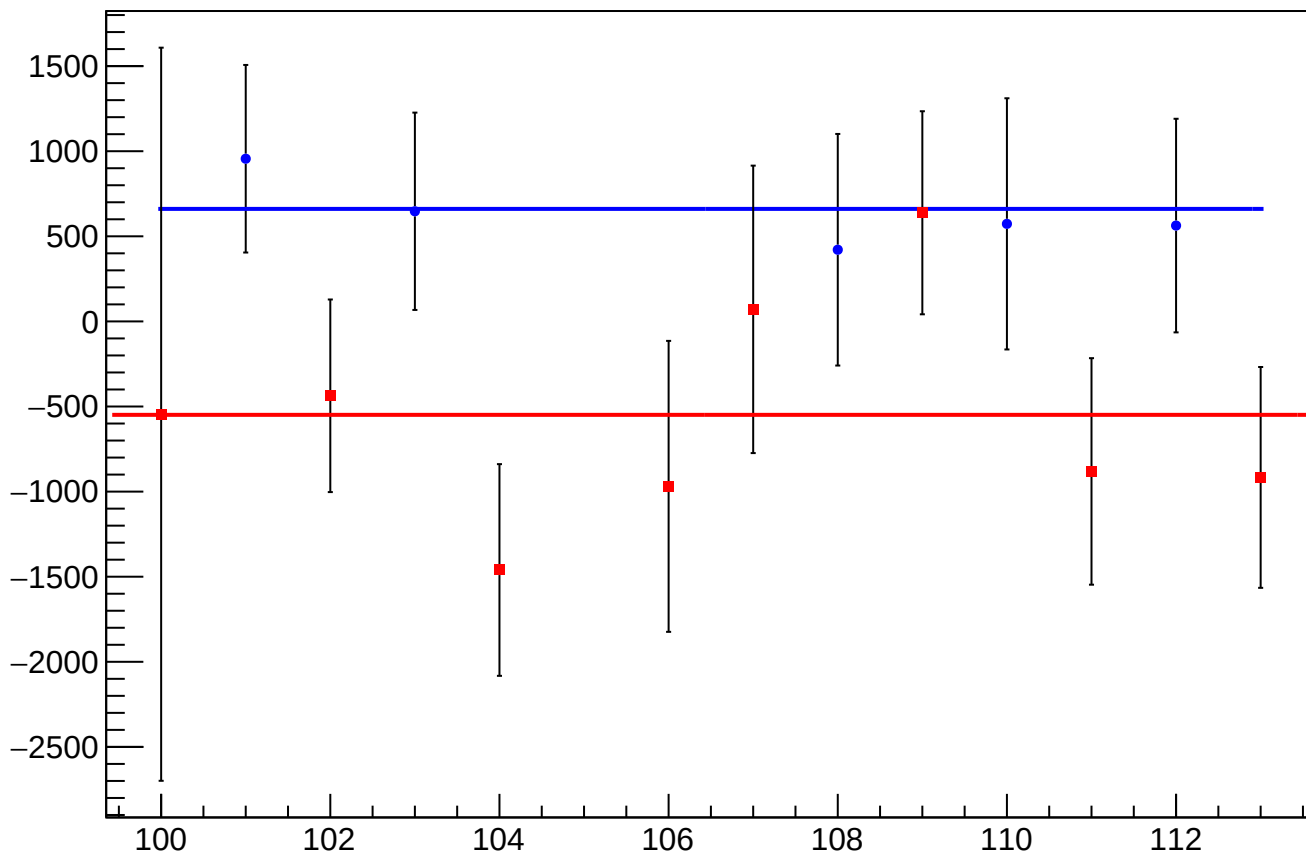
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4915.810+/-1.456  $\chi^2/\text{NDF}$ : 66897.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam2\_mean vs Slug



Right In: 661.062 $\pm$ 279.452  $\chi^2$ /NDF: 0.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -548.994 $\pm$ 248.917  $\chi^2$ /NDF: 7.5/7

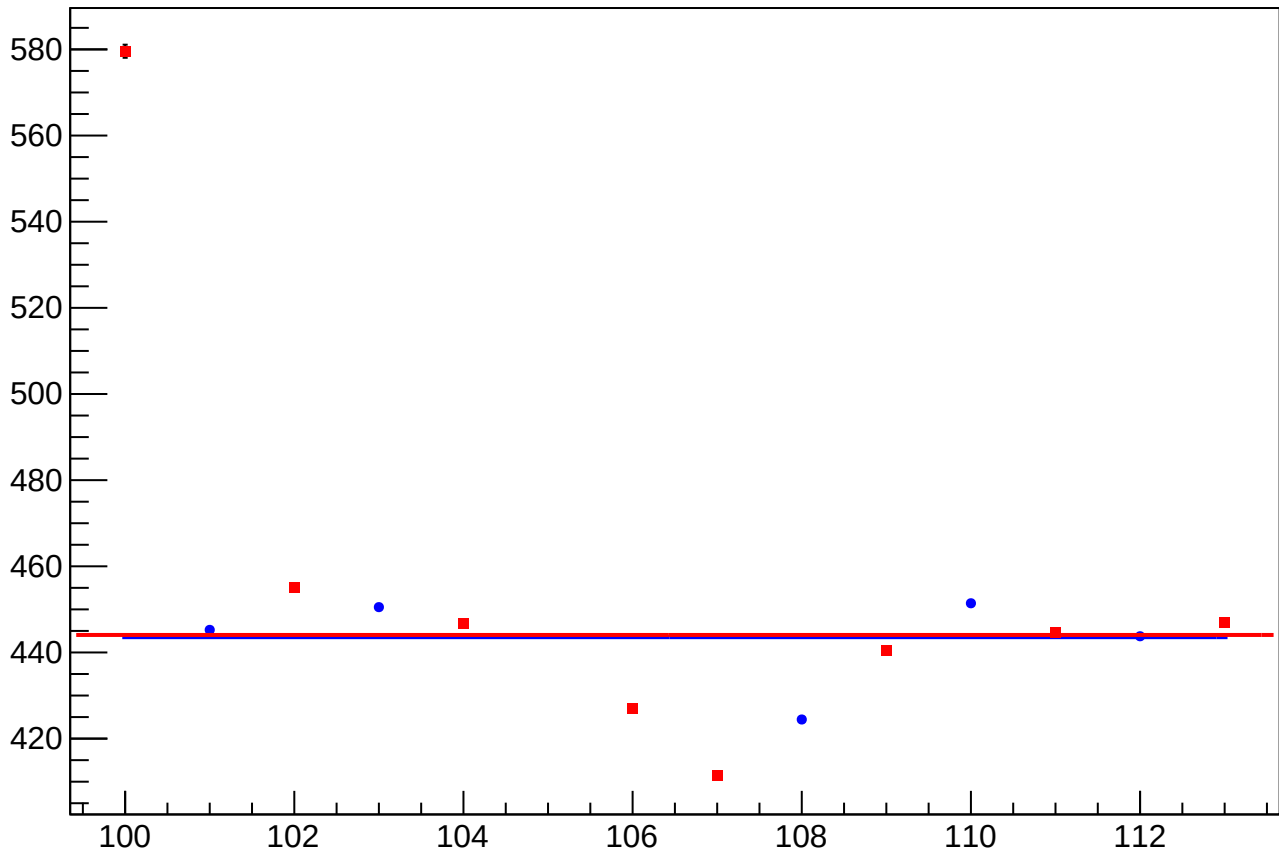
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -13.663 $\pm$ 185.872  $\chi^2$ /NDF: 18.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam2\_rms vs Slug



Right In: 443.553+/-0.198  $\chi^2/\text{NDF}$ : 2113.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 444.064+/-0.176  $\chi^2/\text{NDF}$ : 12612.9/7

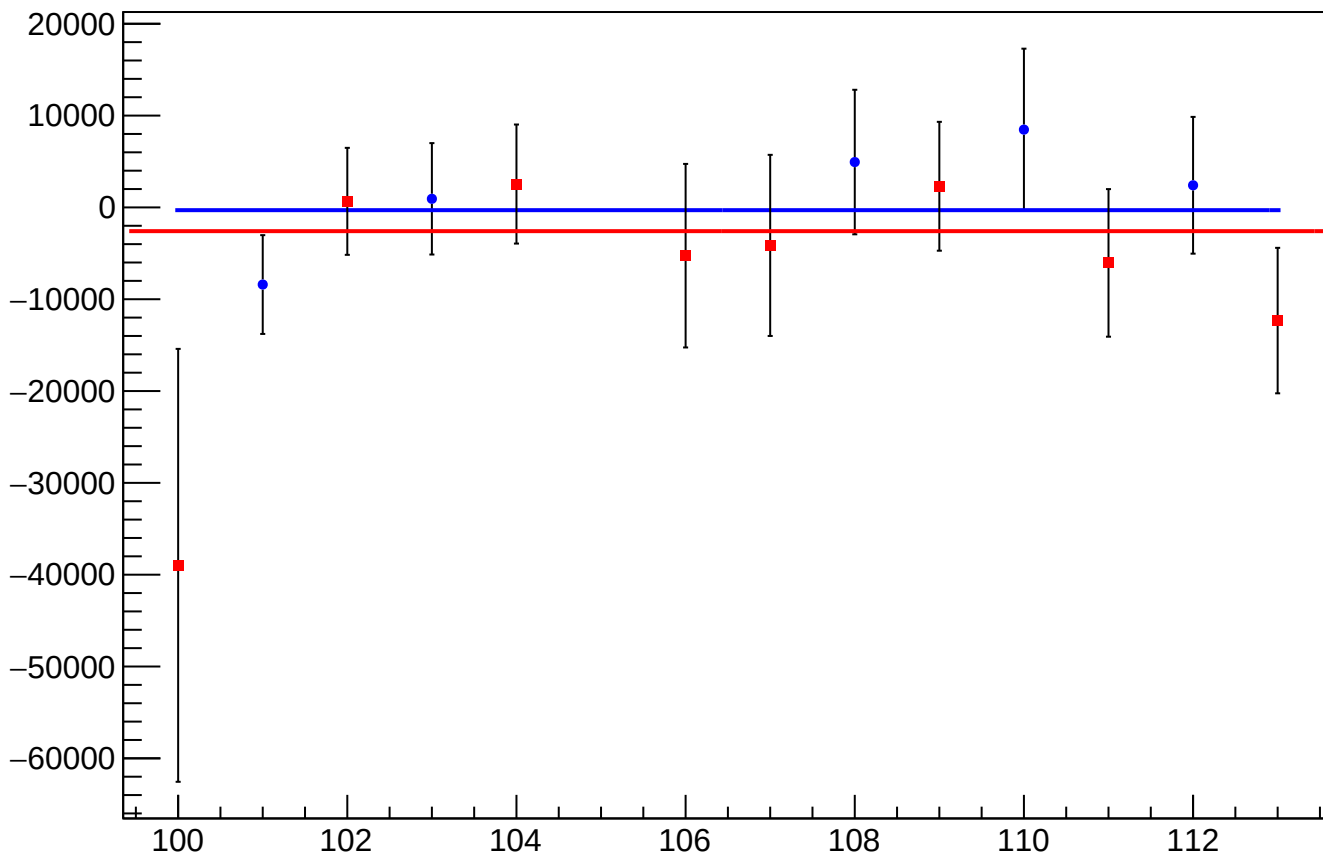
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 443.838+/-0.131  $\chi^2/\text{NDF}$ : 14730.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_cor\_correction\_mean vs Slug



Right In: -299.890+/-3032.319  $\chi^2/\text{NDF}$ : 3.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2585.166+/-2805.351  $\chi^2/\text{NDF}$ : 5.6/7

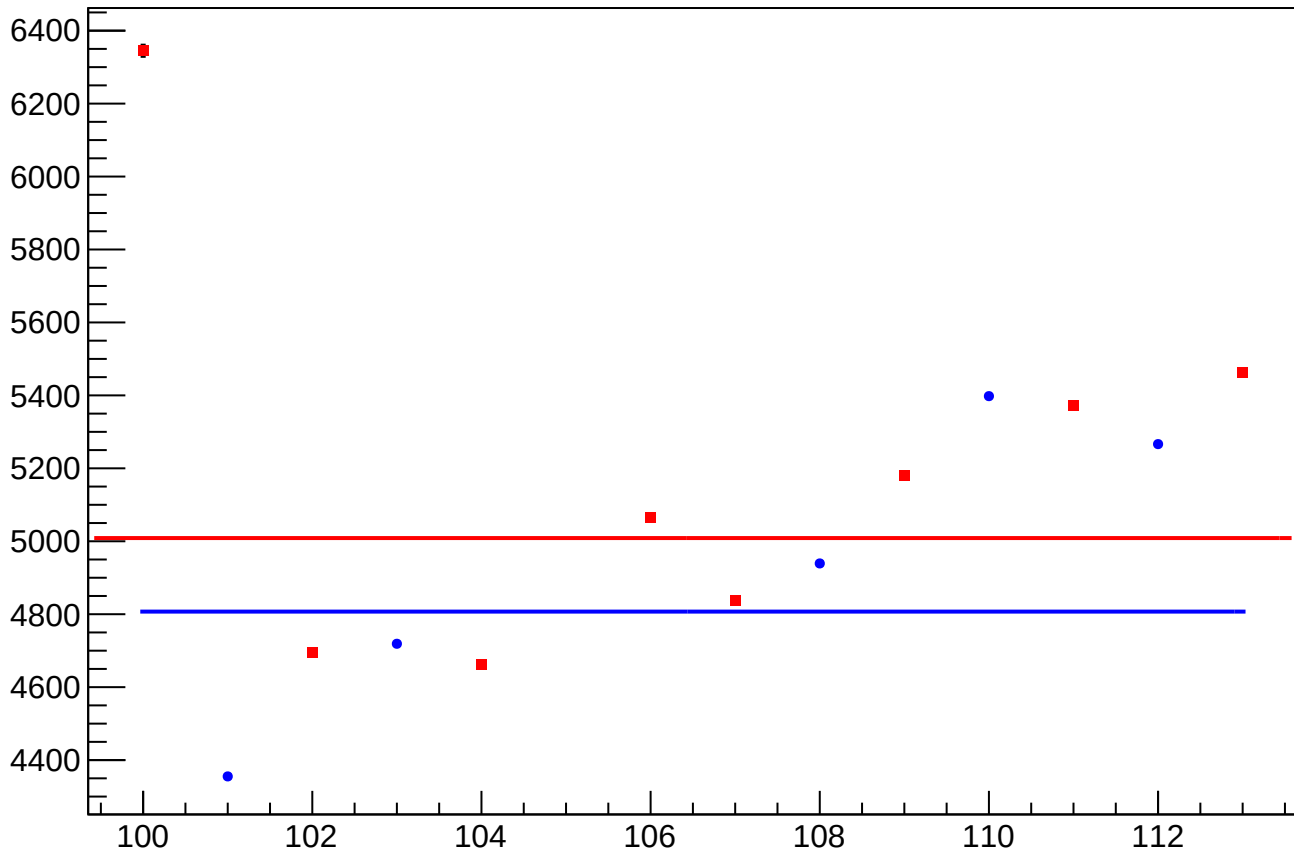
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1531.245+/-2059.252  $\chi^2/\text{NDF}$ : 9.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_cor\_correction\_rms vs Slug



Right In: 4807.173+/-2.144  $\chi^2/\text{NDF}$ : 31680.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5008.794+/-1.984  $\chi^2/\text{NDF}$ : 30453.5/7

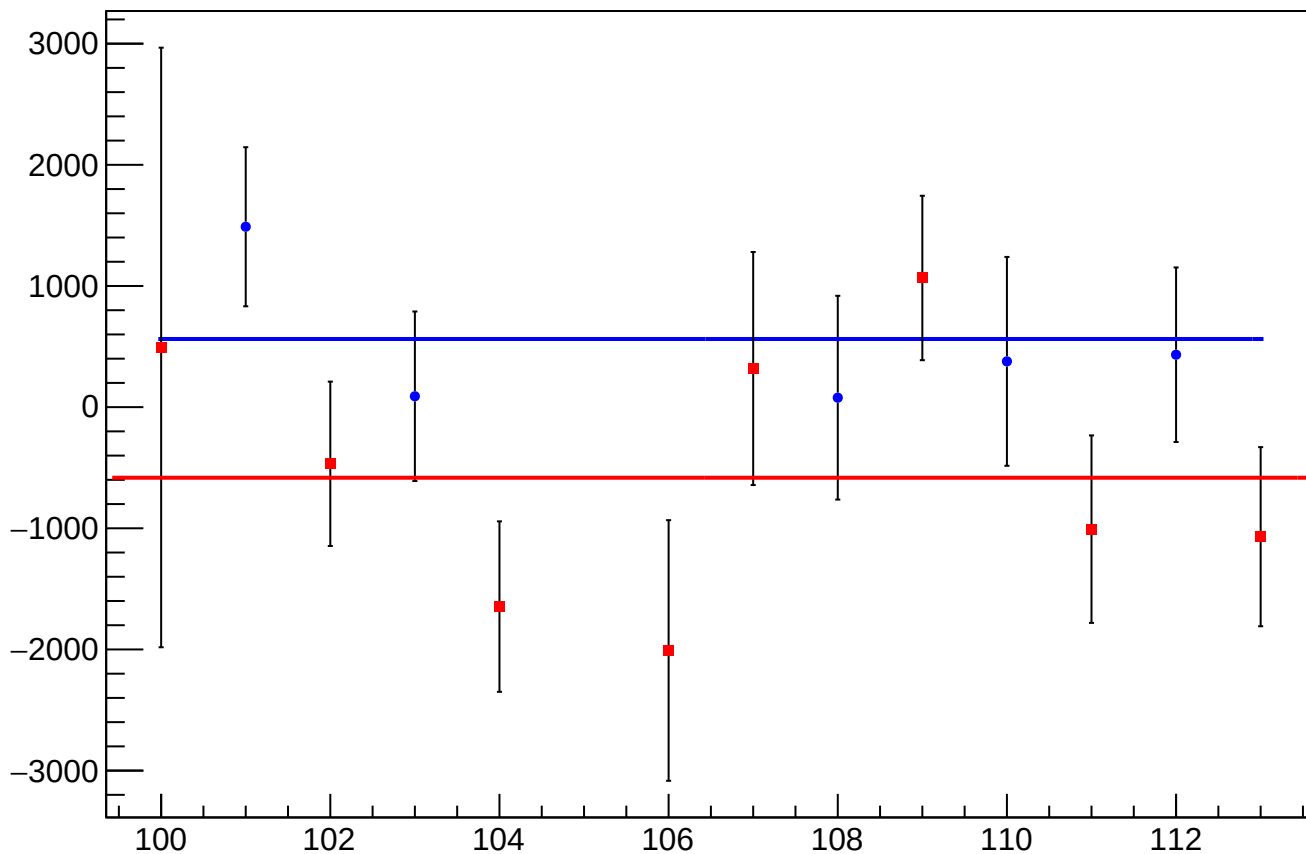
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4915.810+/-1.456  $\chi^2/\text{NDF}$ : 66897.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam2\_mean vs Slug



Right In: 562.397 $\pm$ 332.424  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -582.680 $\pm$ 288.989  $\chi^2$ /NDF: 11.8/7

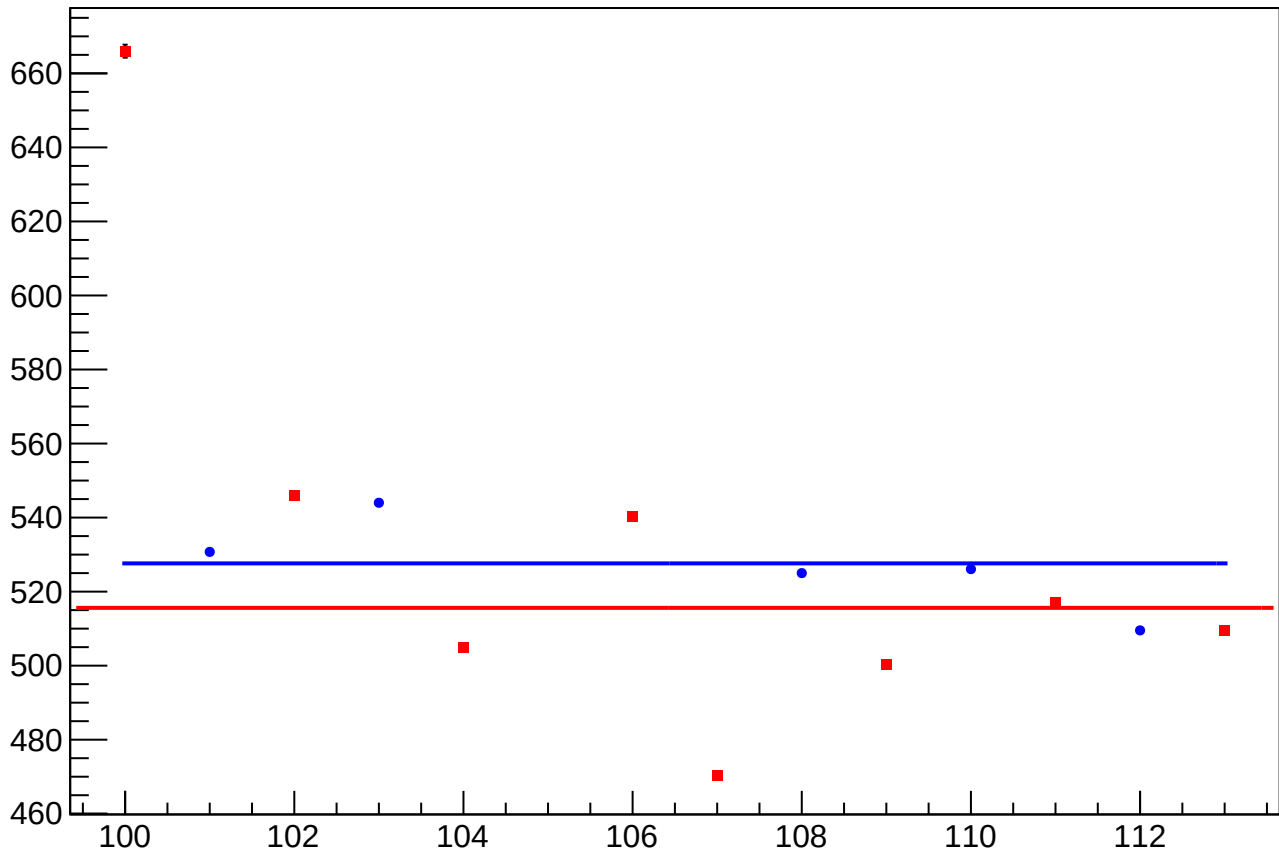
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -89.791 $\pm$ 218.097  $\chi^2$ /NDF: 21.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam2\_rms vs Slug



Right In: 527.627 $\pm$ 0.235  $\chi^2$ /NDF: 2429.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 515.618 $\pm$ 0.204  $\chi^2$ /NDF: 18503.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

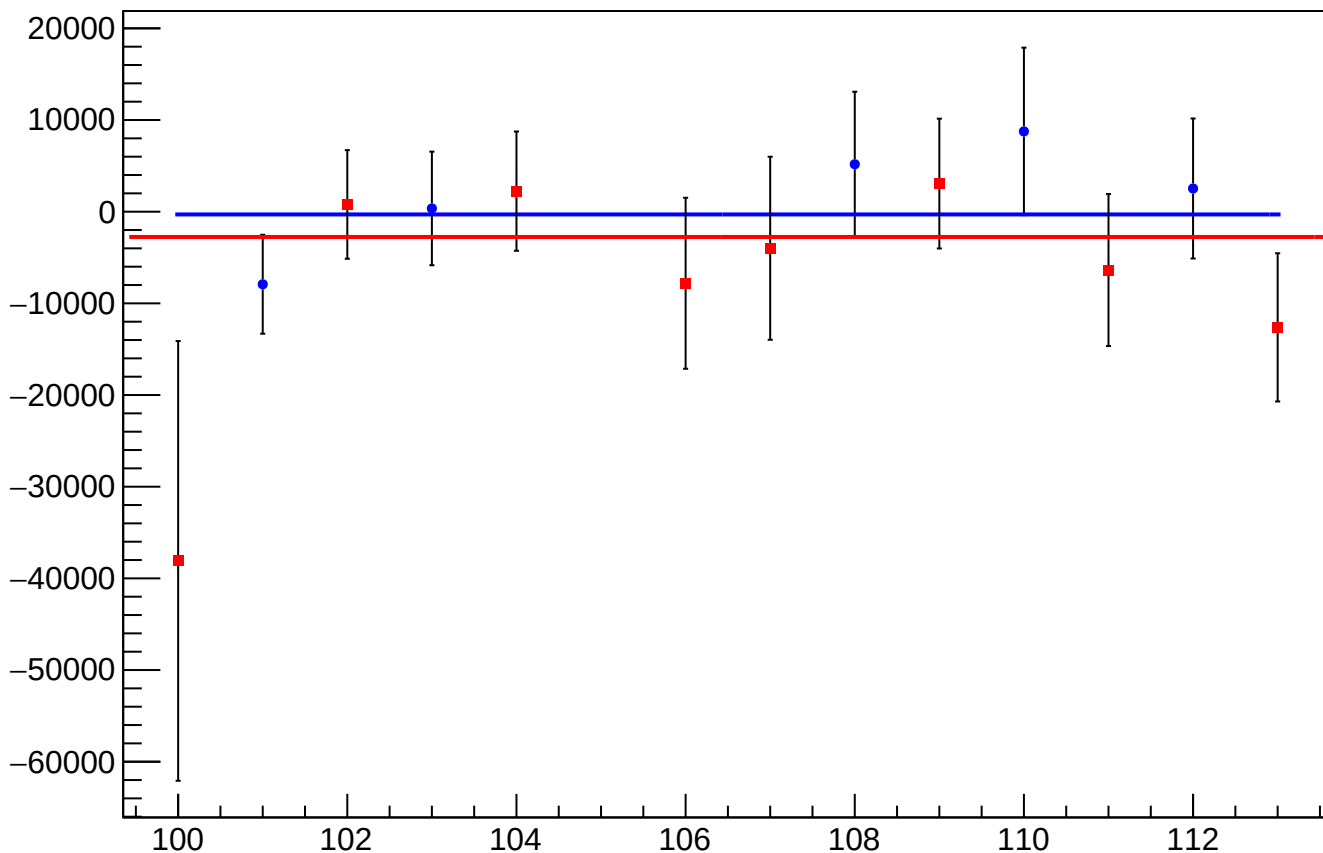
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 520.787 $\pm$ 0.154  $\chi^2$ /NDF: 22418.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam2\_dit\_correction\_mean vs Slug



Right In: -300.309+/-3078.655  $\chi^2/\text{NDF}$ : 3.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2757.438+/-2826.458  $\chi^2/\text{NDF}$ : 5.8/7

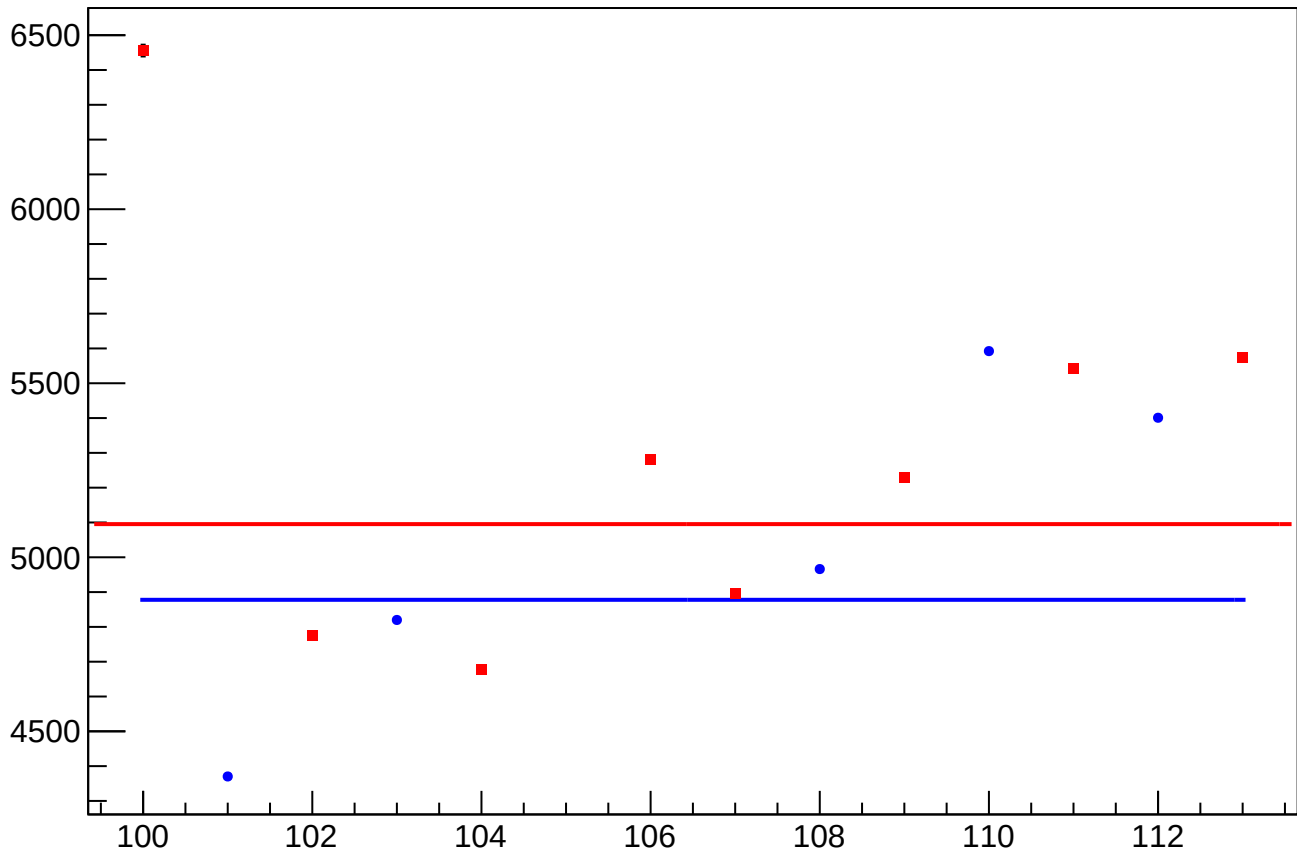
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1633.623+/-2082.067  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_dit\_correction\_rms vs Slug



Right In: 4877.824 $\pm$ 2.177  $\chi^2$ /NDF: 39737.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5095.302 $\pm$ 1.999  $\chi^2$ /NDF: 35580.9/7

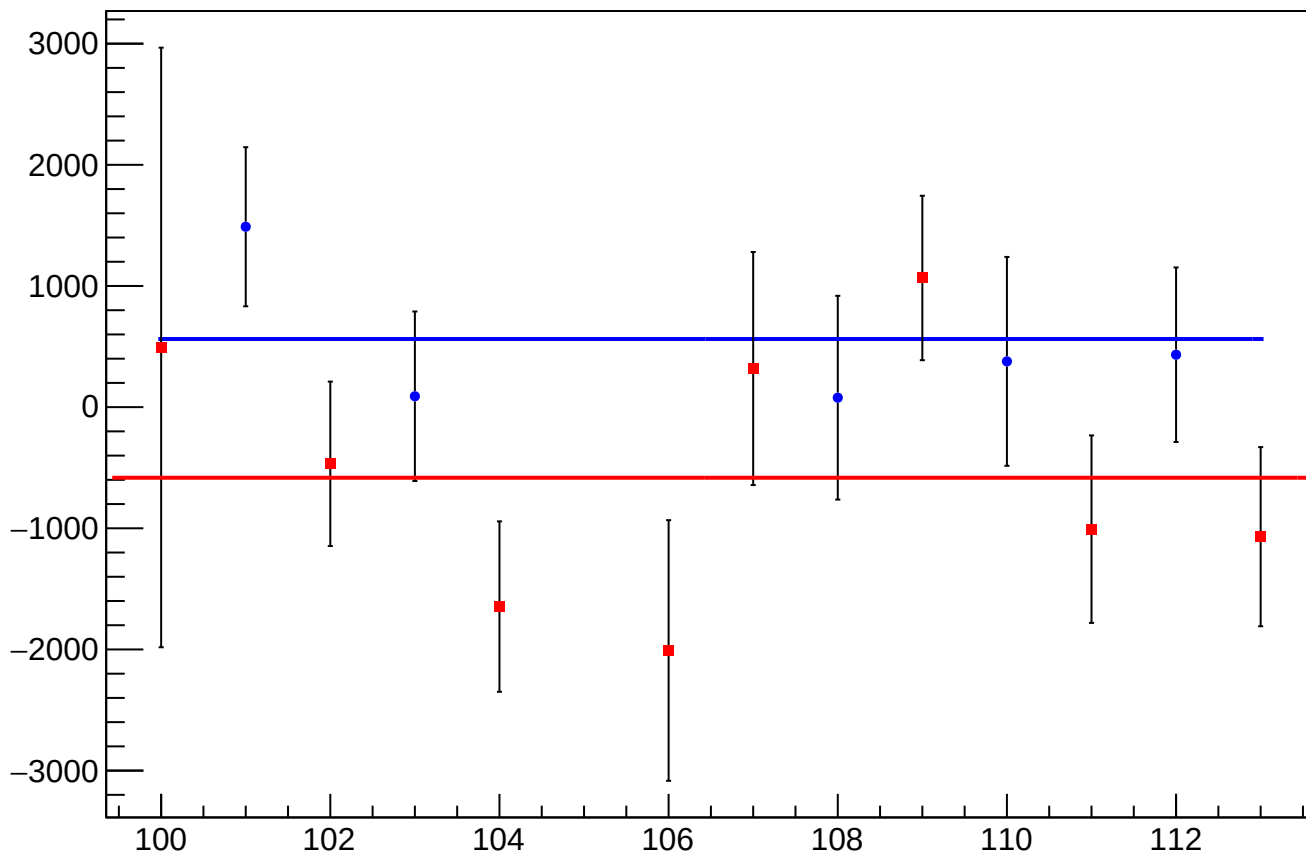
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4995.834 $\pm$ 1.472  $\chi^2$ /NDF: 80734.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam2\_mean vs Slug



Right In: 562.378 $\pm$ 332.422  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -582.668 $\pm$ 288.987  $\chi^2$ /NDF: 11.8/7

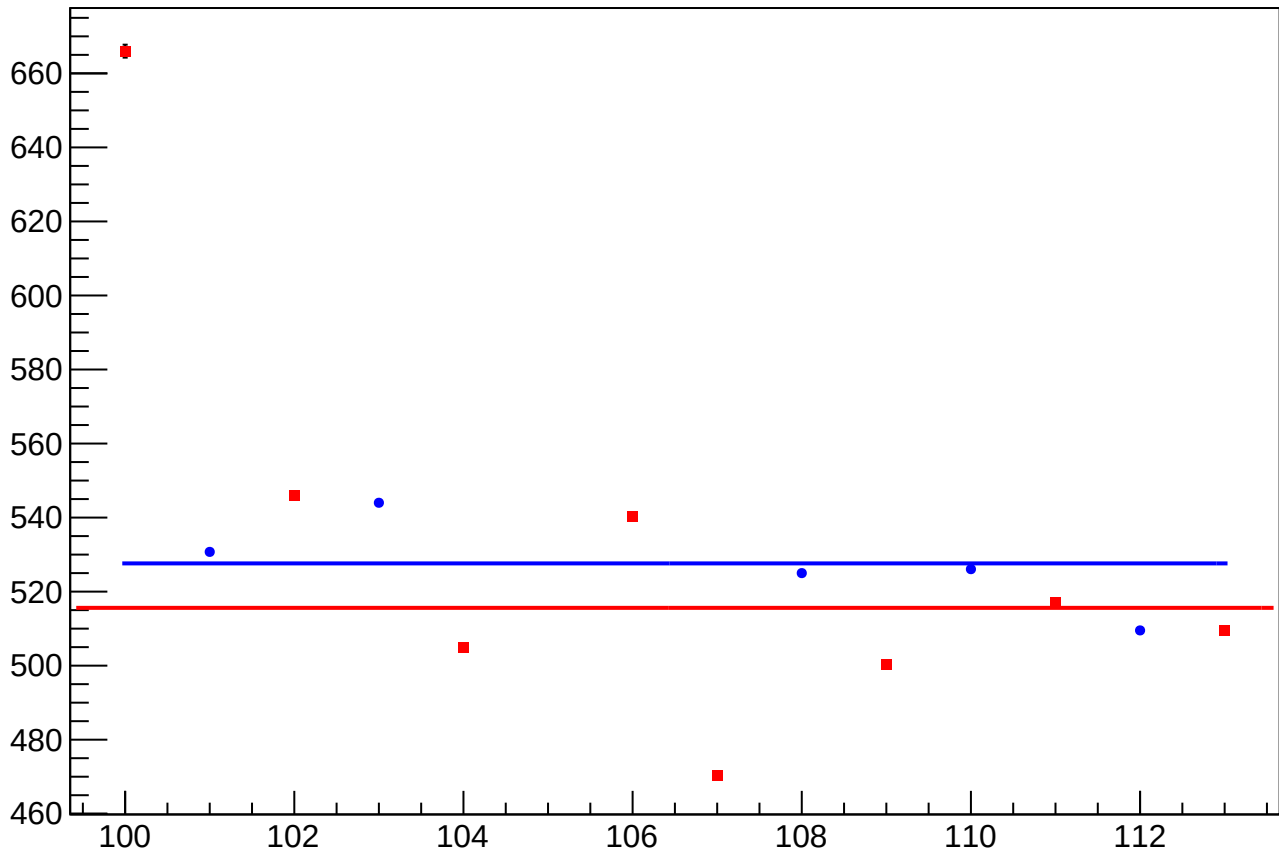
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -89.792 $\pm$ 218.096  $\chi^2$ /NDF: 21.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam2\_rms vs Slug



Right In: 527.623 $\pm$ 0.235  $\chi^2$ /NDF: 2429.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 515.615 $\pm$ 0.204  $\chi^2$ /NDF: 18503.0/7

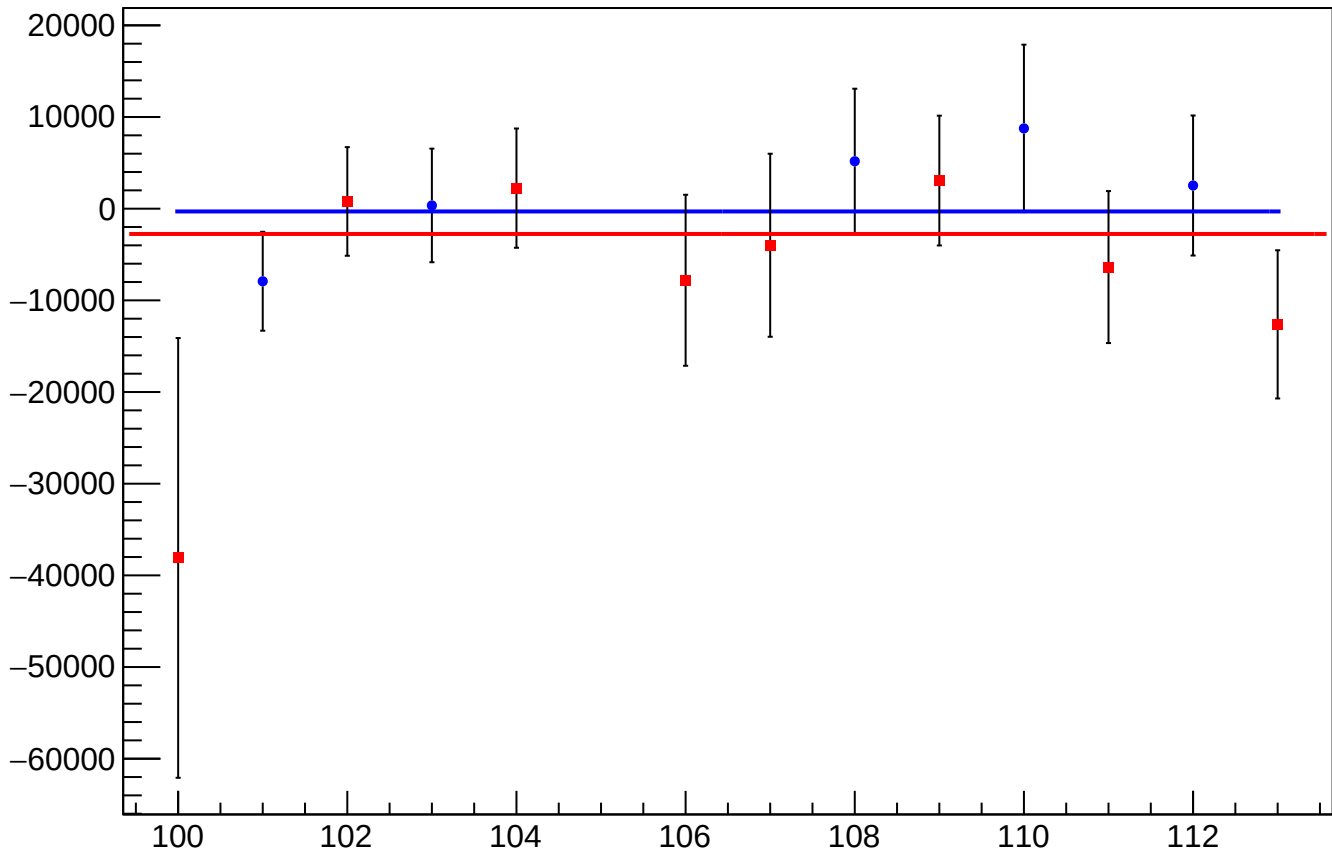
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 520.784 $\pm$ 0.154  $\chi^2$ /NDF: 22419.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_eigen\_dit\_correction\_mean vs Slug



Right In: -300.310+/-3078.646  $\chi^2/\text{NDF}$ : 3.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2757.430+/-2826.449  $\chi^2/\text{NDF}$ : 5.8/7

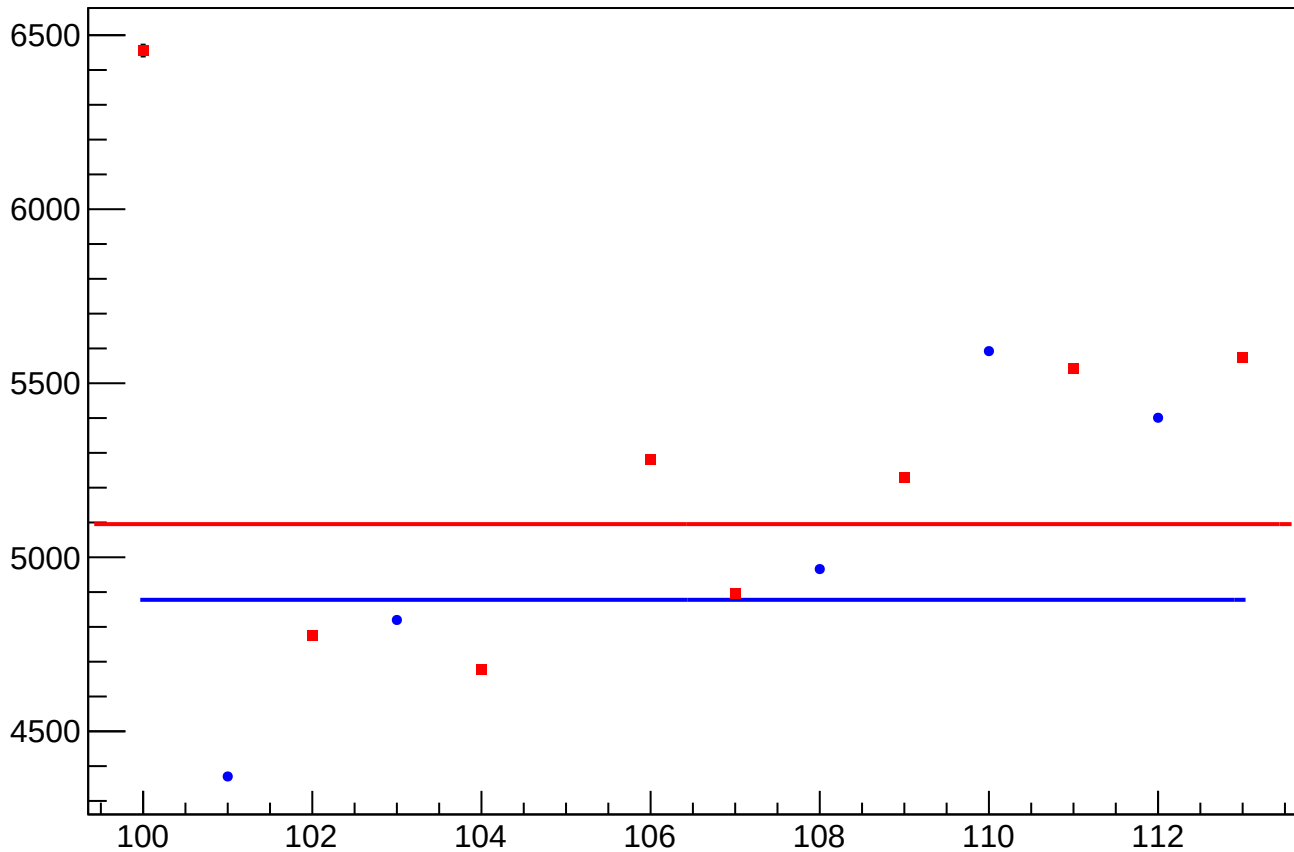
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1633.619+/-2082.060  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_dit\_correction\_rms vs Slug



Right In: 4877.811+/-2.177  $\chi^2/\text{NDF}$ : 39736.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5095.286+/-1.999  $\chi^2/\text{NDF}$ : 35580.5/7

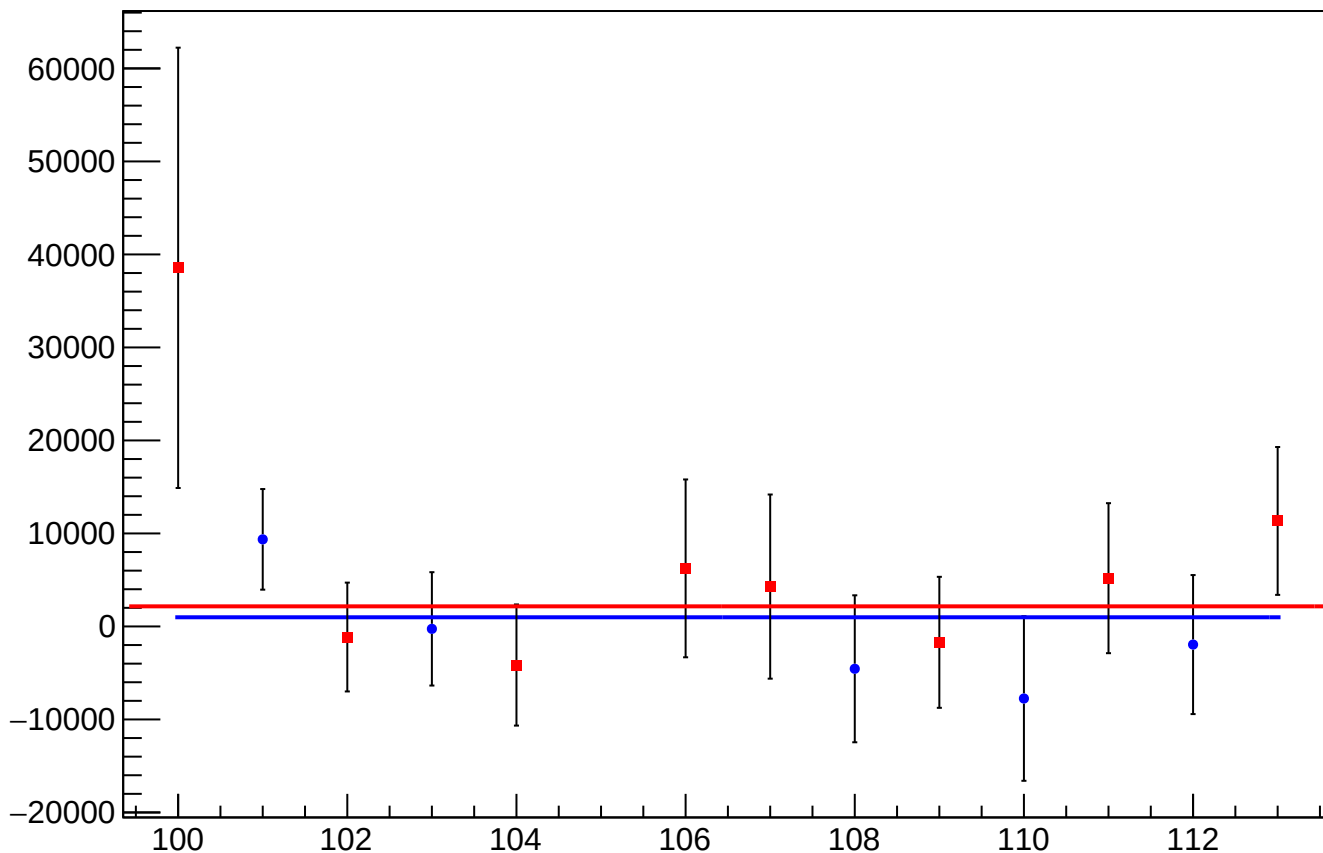
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4995.819+/-1.472  $\chi^2/\text{NDF}$ : 80732.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_mean vs Slug



Right In: 985.289+/-3045.999  $\chi^2/\text{NDF}$ : 4.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2161.027+/-2805.353  $\chi^2/\text{NDF}$ : 5.6/7

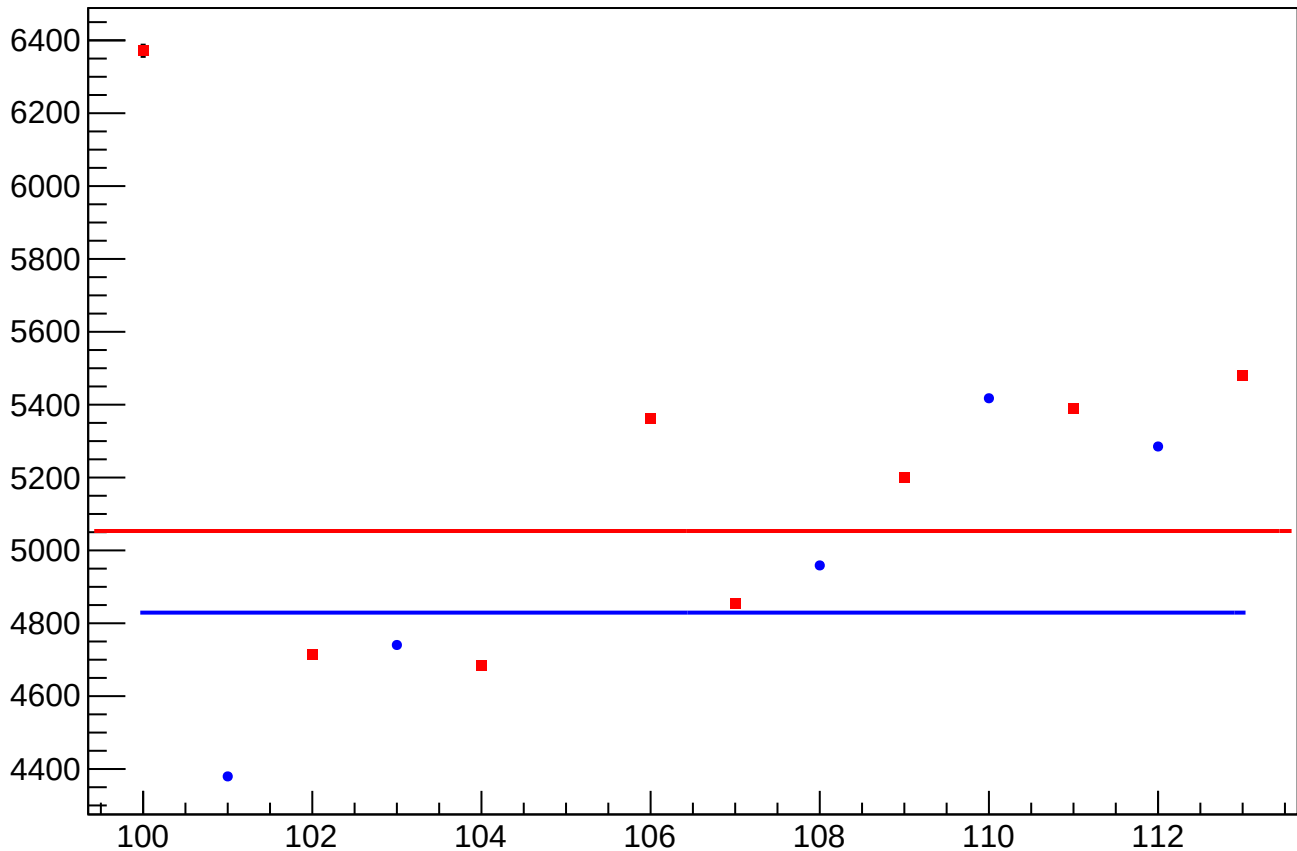
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1621.431+/-2063.522  $\chi^2/\text{NDF}$ : 9.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_rms vs Slug



Right In: 4829.228+/-2.154  $\chi^2/\text{NDF}$ : 31059.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5053.269+/-1.984  $\chi^2/\text{NDF}$ : 32359.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

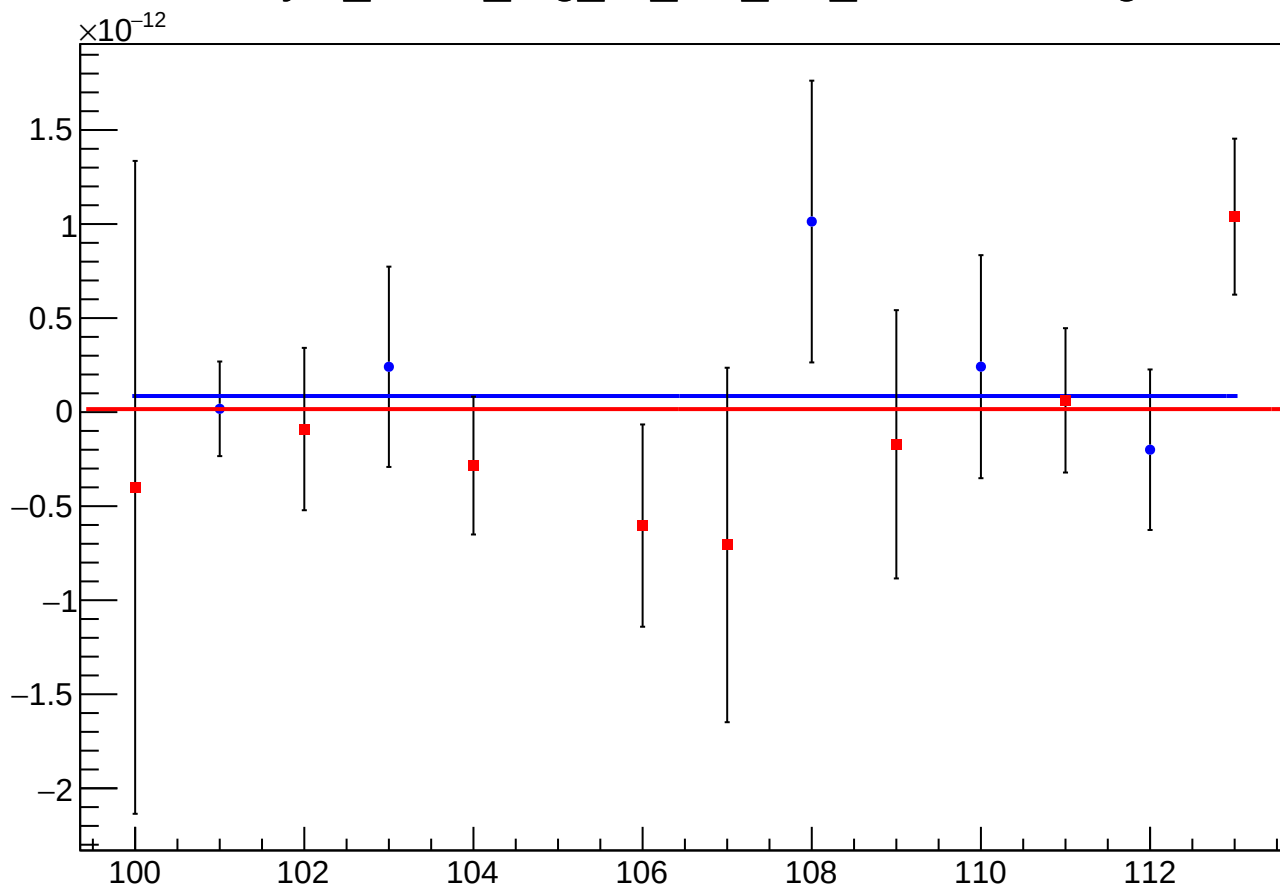
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4950.447+/-1.459  $\chi^2/\text{NDF}$ : 69273.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam2\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.9/7

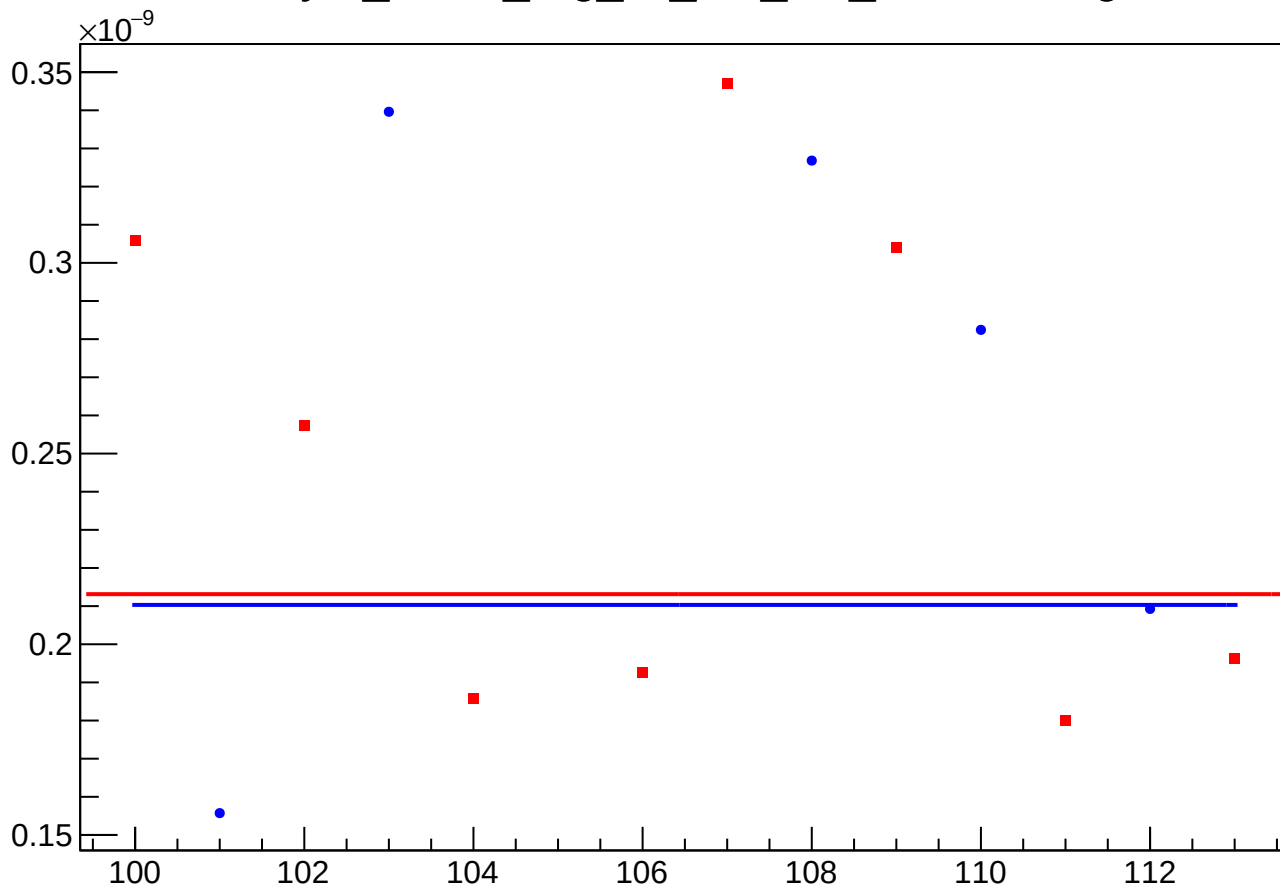
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 290135.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 131704.9/7

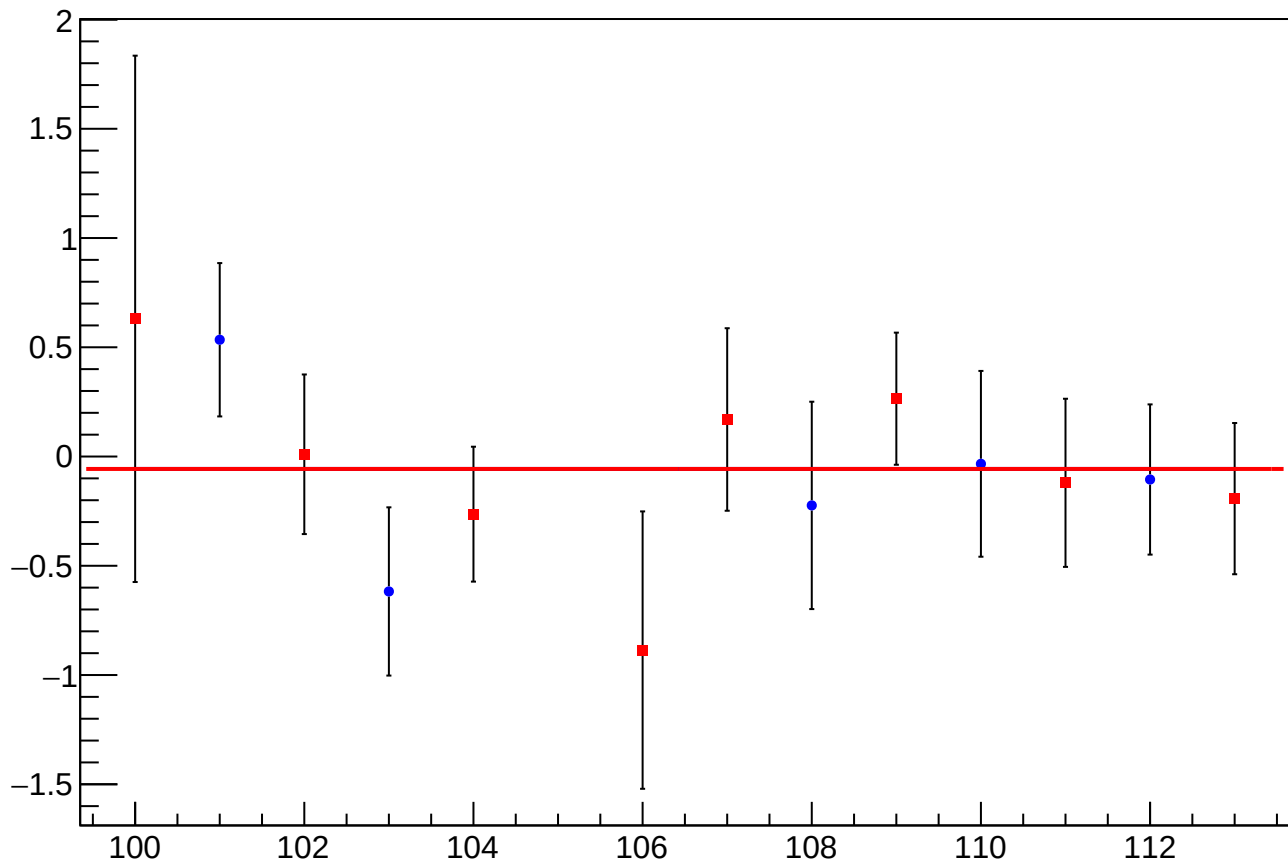
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 422085.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.057 \pm 0.173$   $\chi^2/\text{NDF}$ : 5.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.057 \pm 0.137$   $\chi^2/\text{NDF}$ : 4.1/7

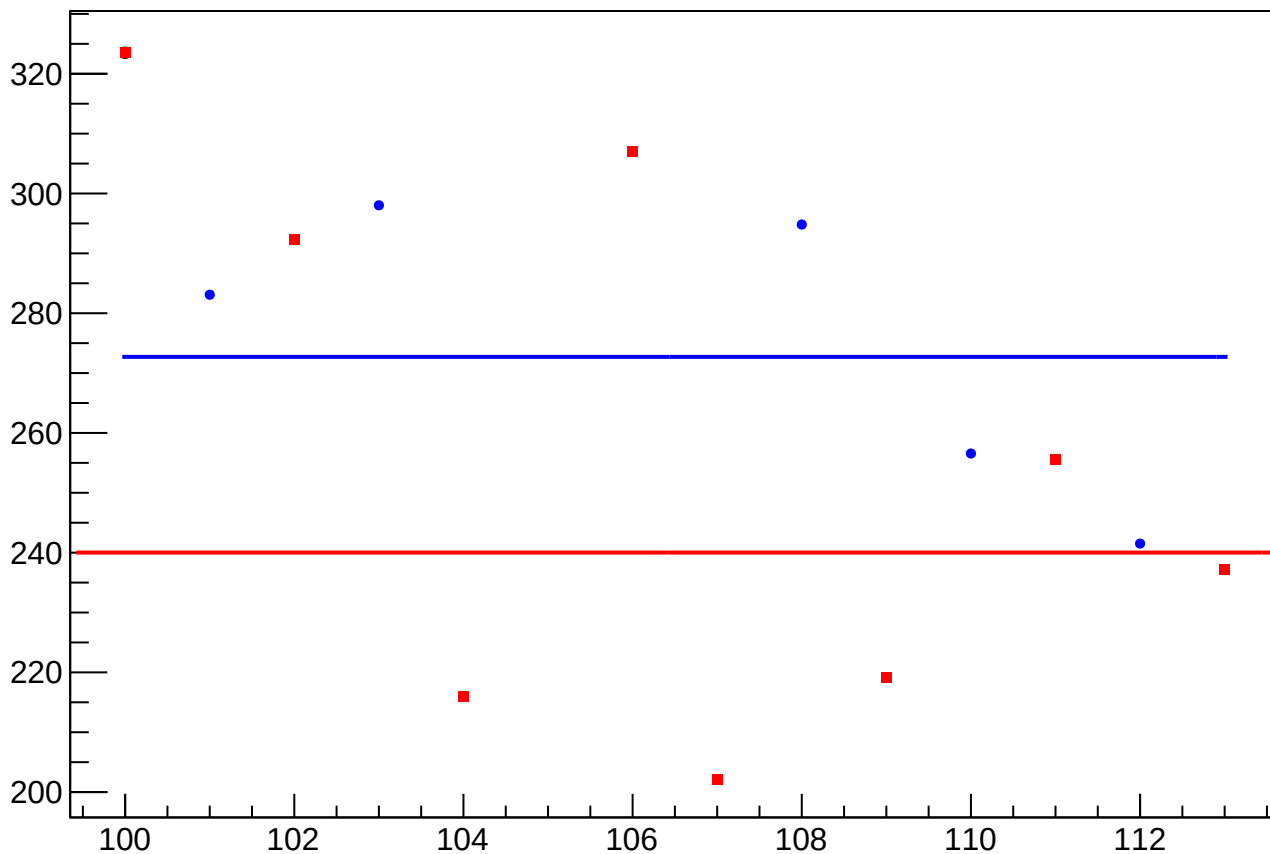
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.057 \pm 0.108$   $\chi^2/\text{NDF}$ : 9.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 272.708 $\pm$ 0.123  $\chi^2$ /NDF: 34097.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 240.019 $\pm$ 0.097  $\chi^2$ /NDF: 114267.6/7

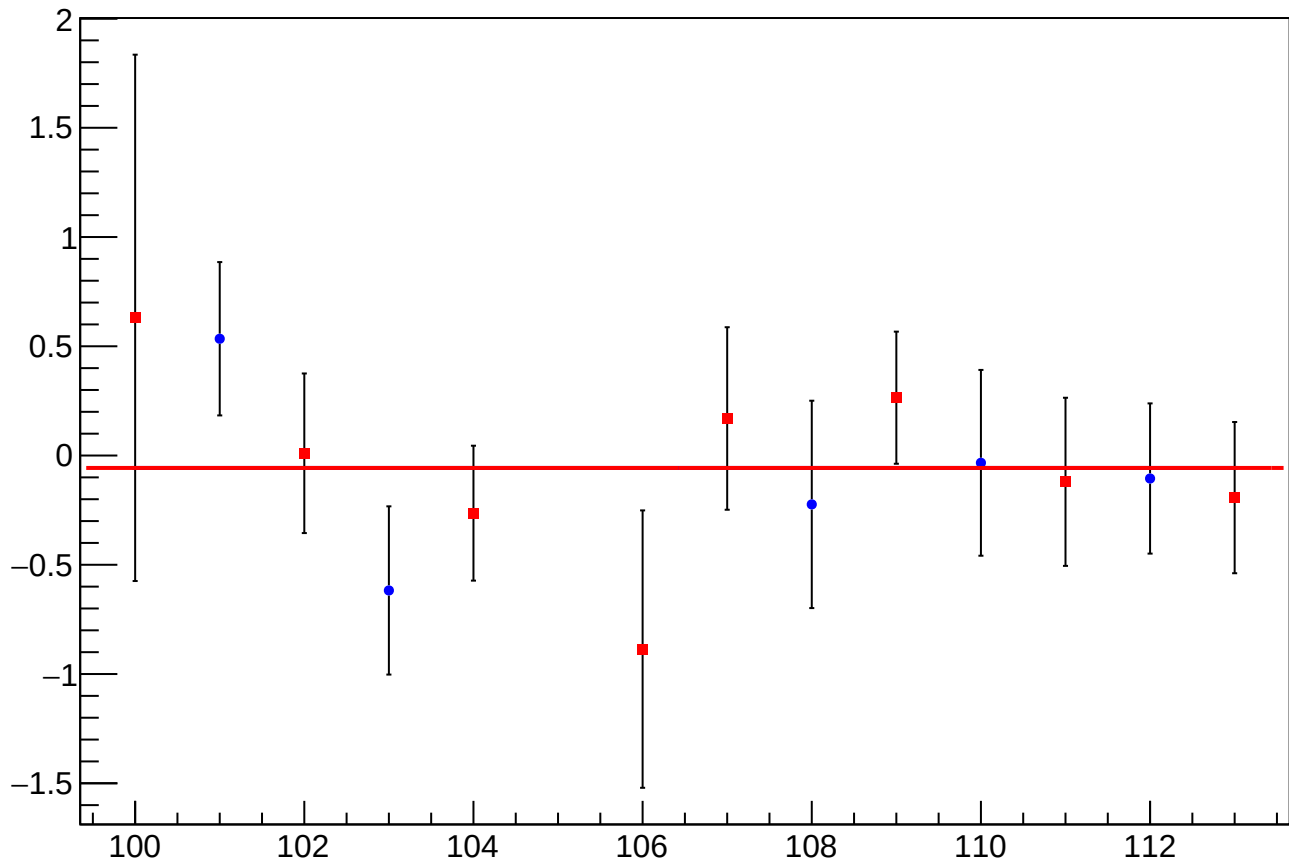
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 252.643 $\pm$ 0.076  $\chi^2$ /NDF: 192055.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam2\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.057 \pm 0.173$   $\chi^2/\text{NDF}: 5.1/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.057 \pm 0.137$   $\chi^2/\text{NDF}: 4.1/7$

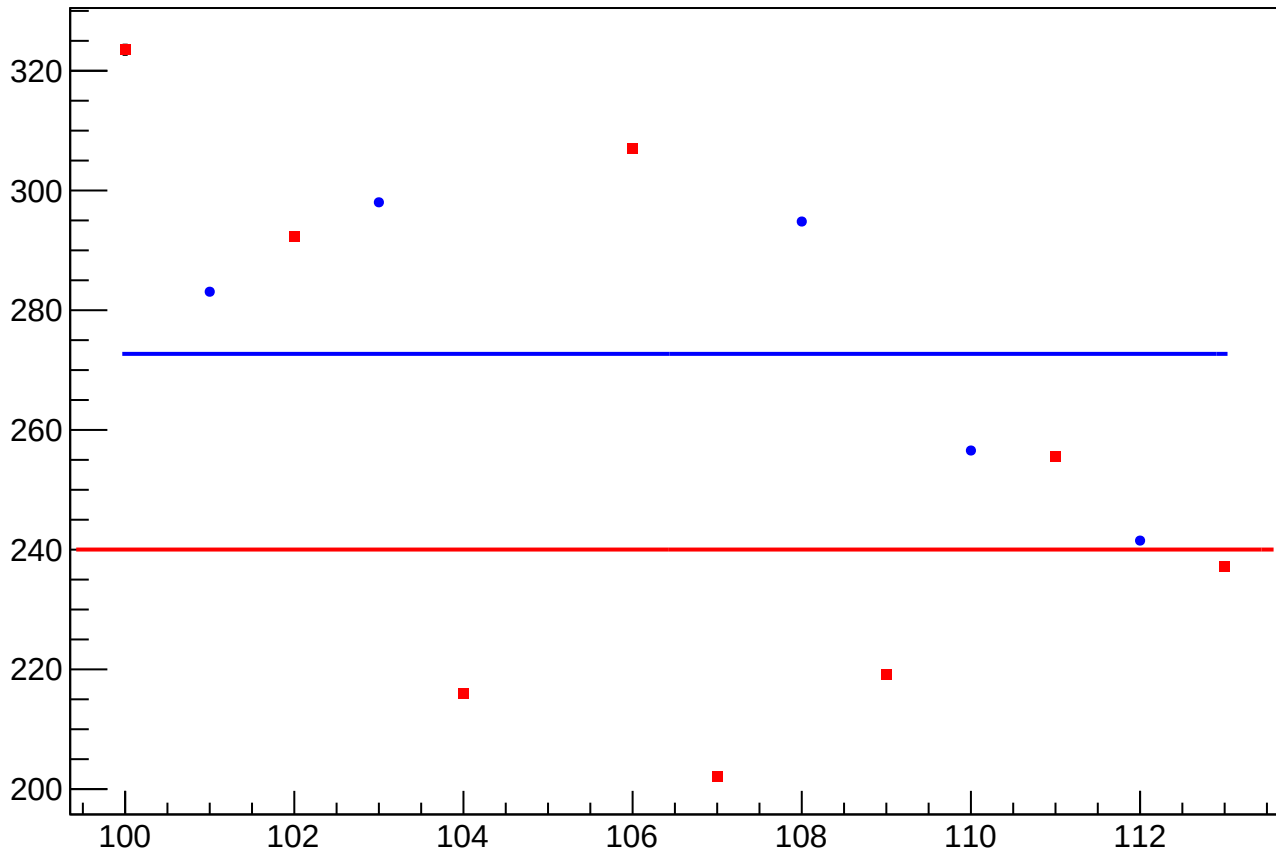
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.057 \pm 0.108$   $\chi^2/\text{NDF}: 9.2/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# asym\_sam2\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 272.708 $\pm$ 0.123  $\chi^2$ /NDF: 34097.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 240.019 $\pm$ 0.097  $\chi^2$ /NDF: 114267.6/7

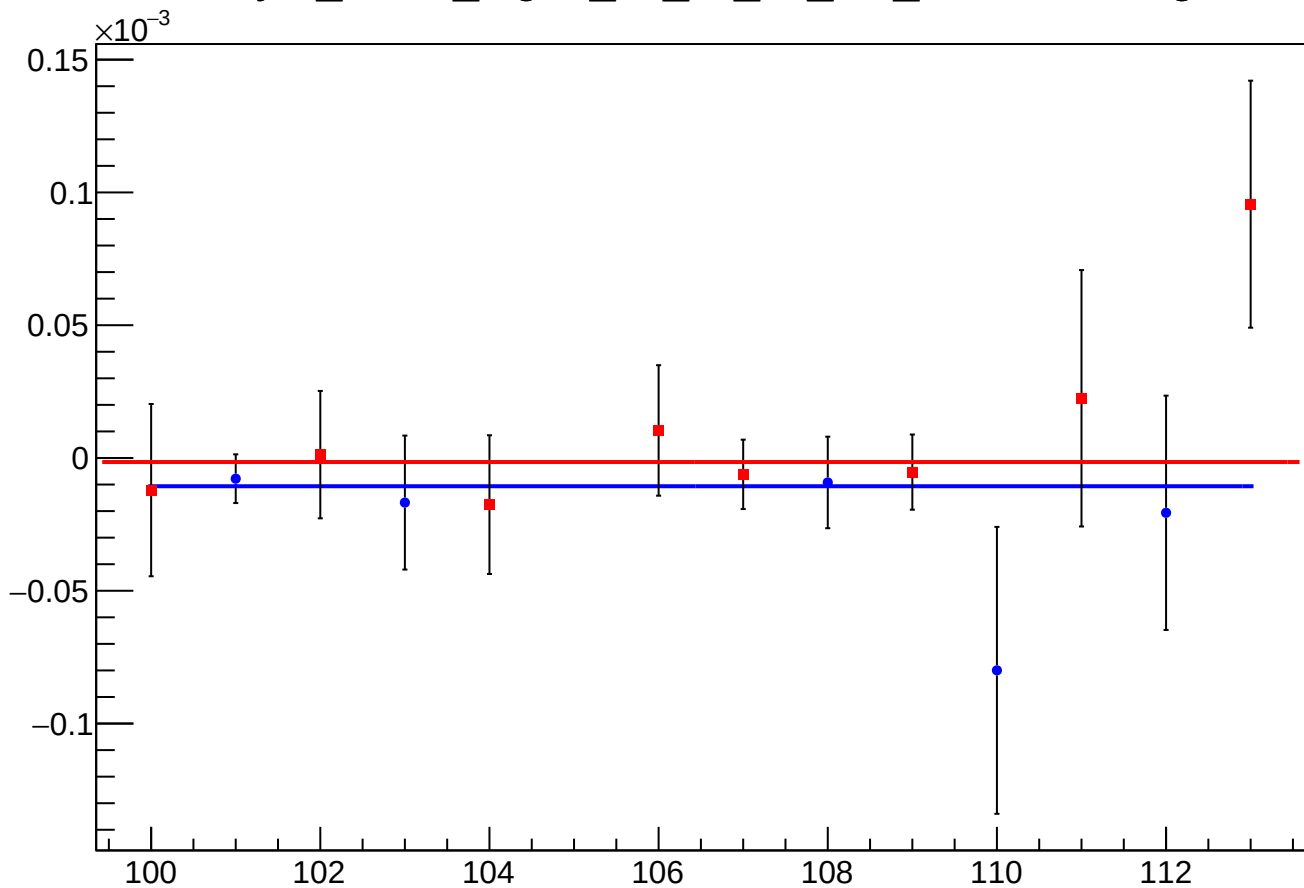
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 252.643 $\pm$ 0.076  $\chi^2$ /NDF: 192055.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam2\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.5/7

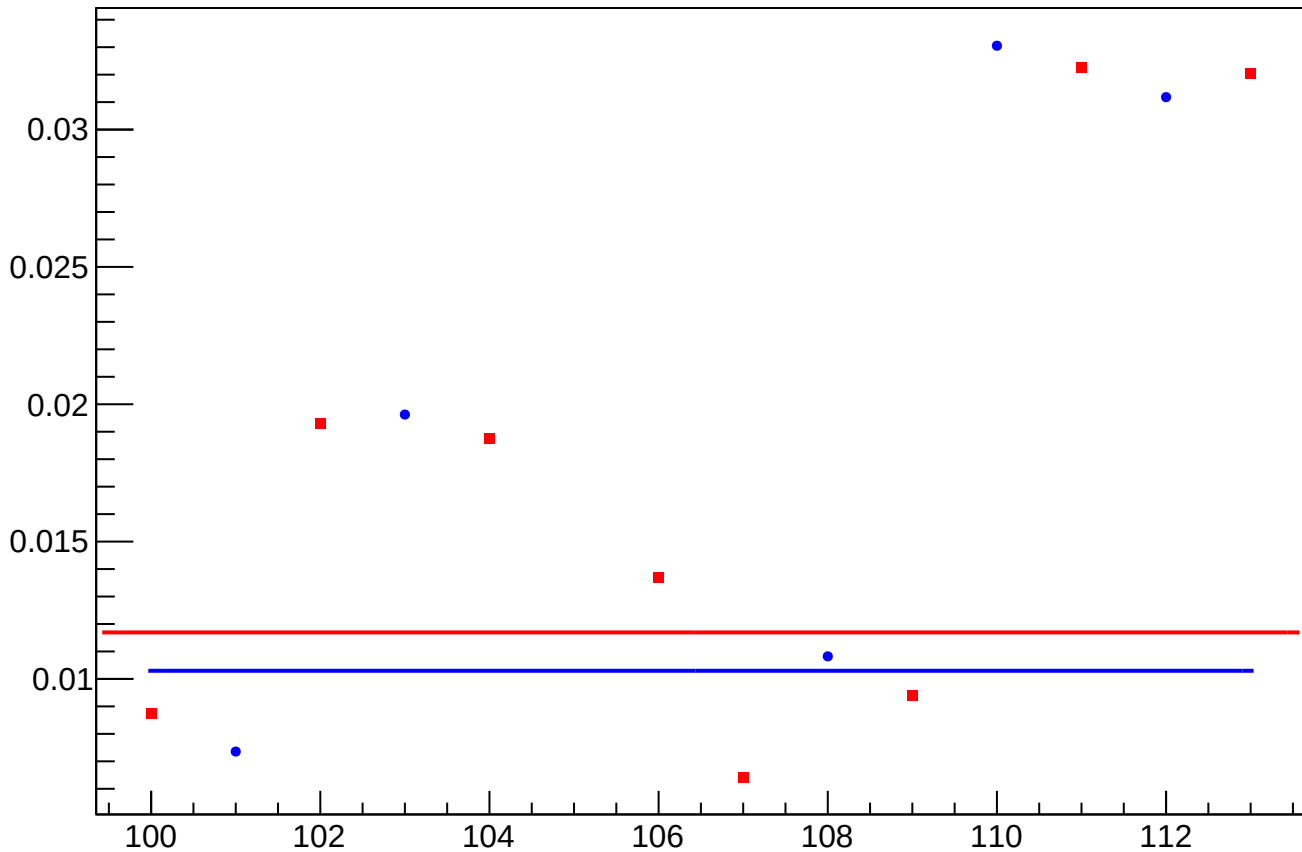
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 1284051.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 1503189.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

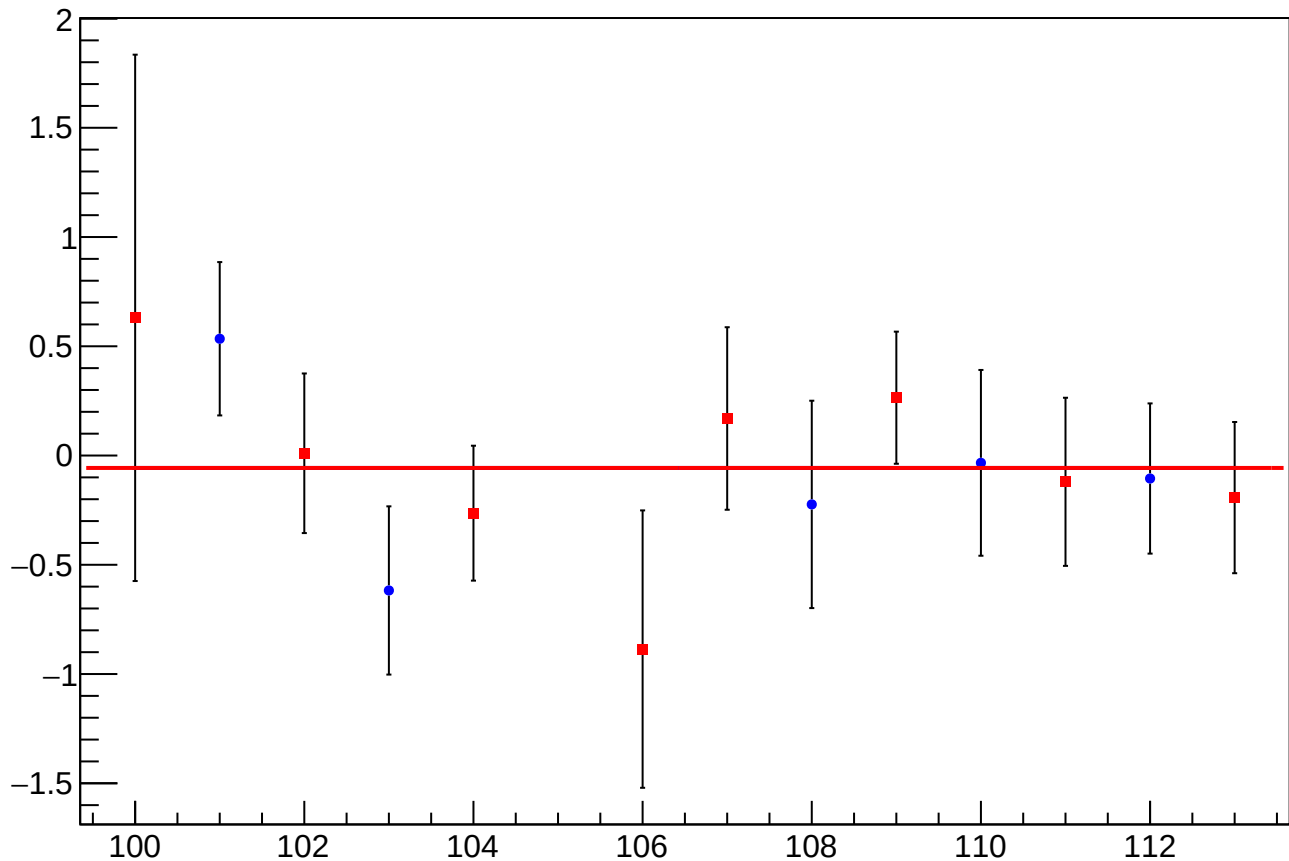
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 2821583.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam2\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.057 \pm 0.173$   $\chi^2/\text{NDF}$ : 5.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.057 \pm 0.137$   $\chi^2/\text{NDF}$ : 4.1/7

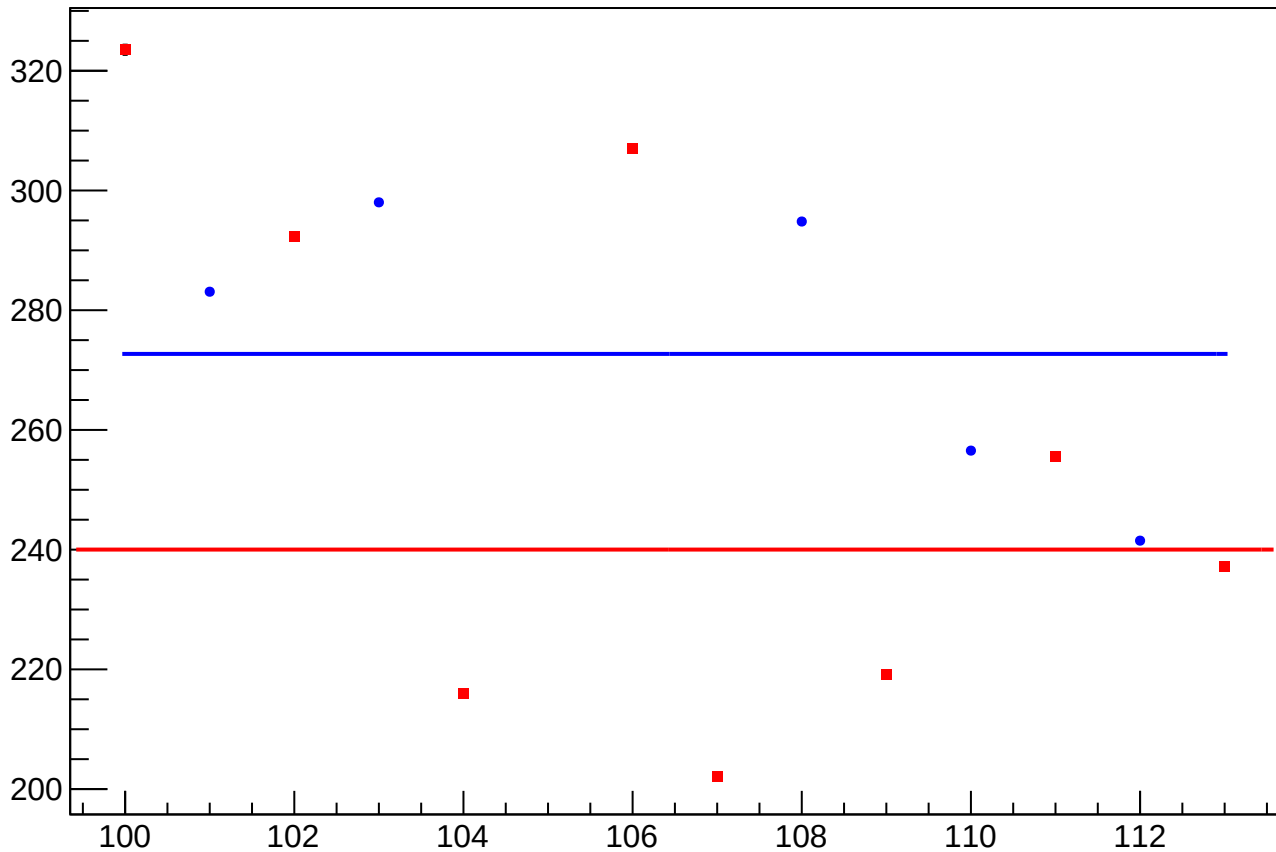
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.057 \pm 0.108$   $\chi^2/\text{NDF}$ : 9.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 272.700 $\pm$ 0.123  $\chi^2$ /NDF: 34115.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 240.013 $\pm$ 0.097  $\chi^2$ /NDF: 114263.3/7

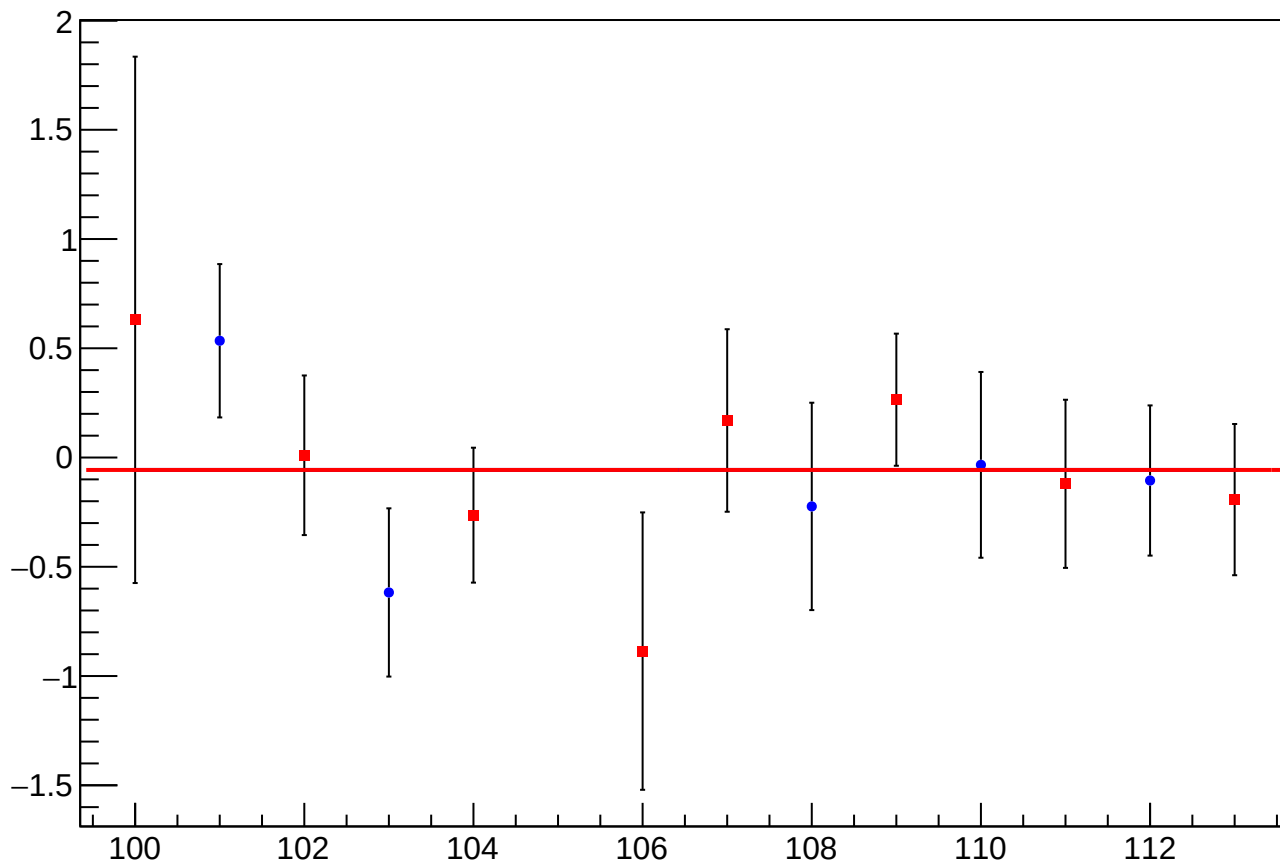
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 252.636 $\pm$ 0.076  $\chi^2$ /NDF: 192065.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam2\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.057 $\pm$ 0.173  $\chi^2$ /NDF: 5.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.057 $\pm$ 0.137  $\chi^2$ /NDF: 4.1/7

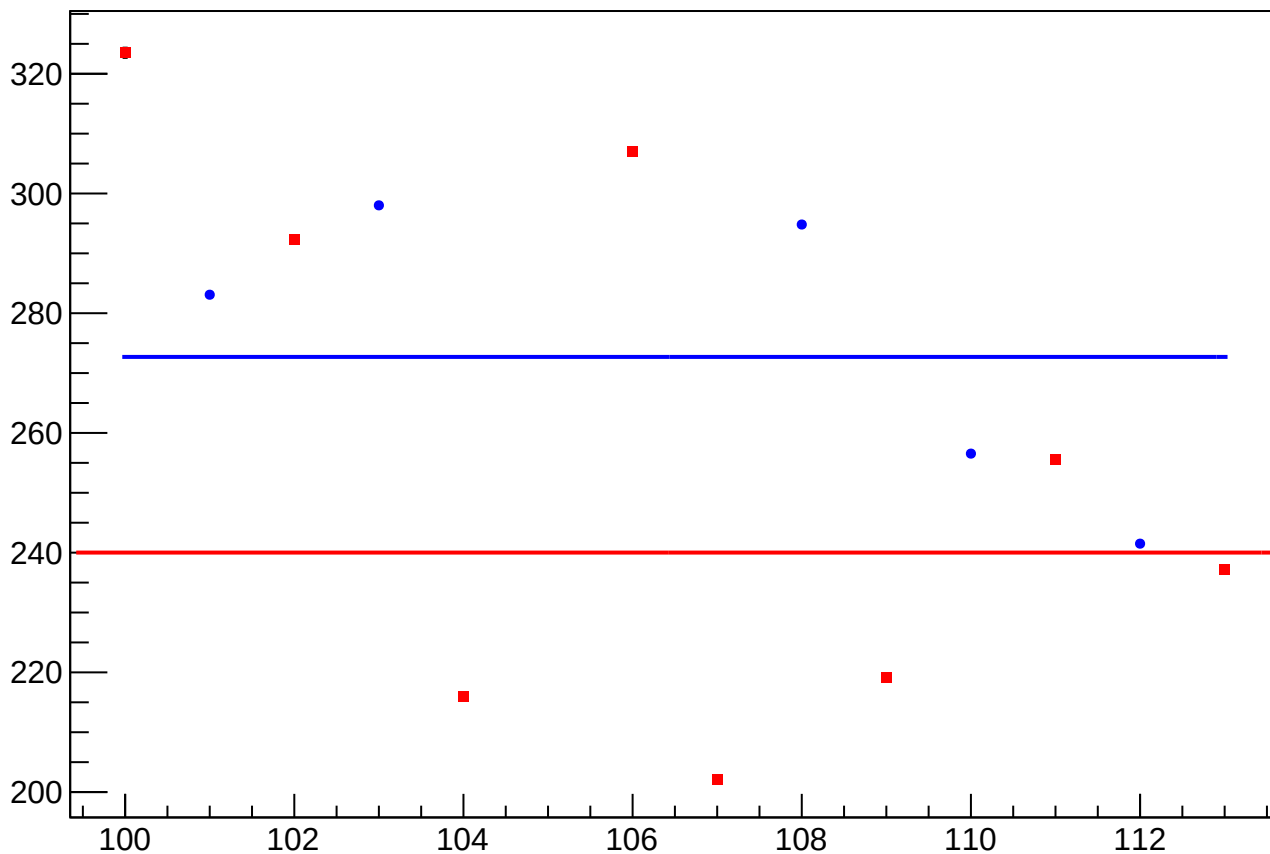
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.057 $\pm$ 0.108  $\chi^2$ /NDF: 9.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam2\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 272.700 $\pm$ 0.123  $\chi^2$ /NDF: 34115.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 240.013 $\pm$ 0.097  $\chi^2$ /NDF: 114263.3/7

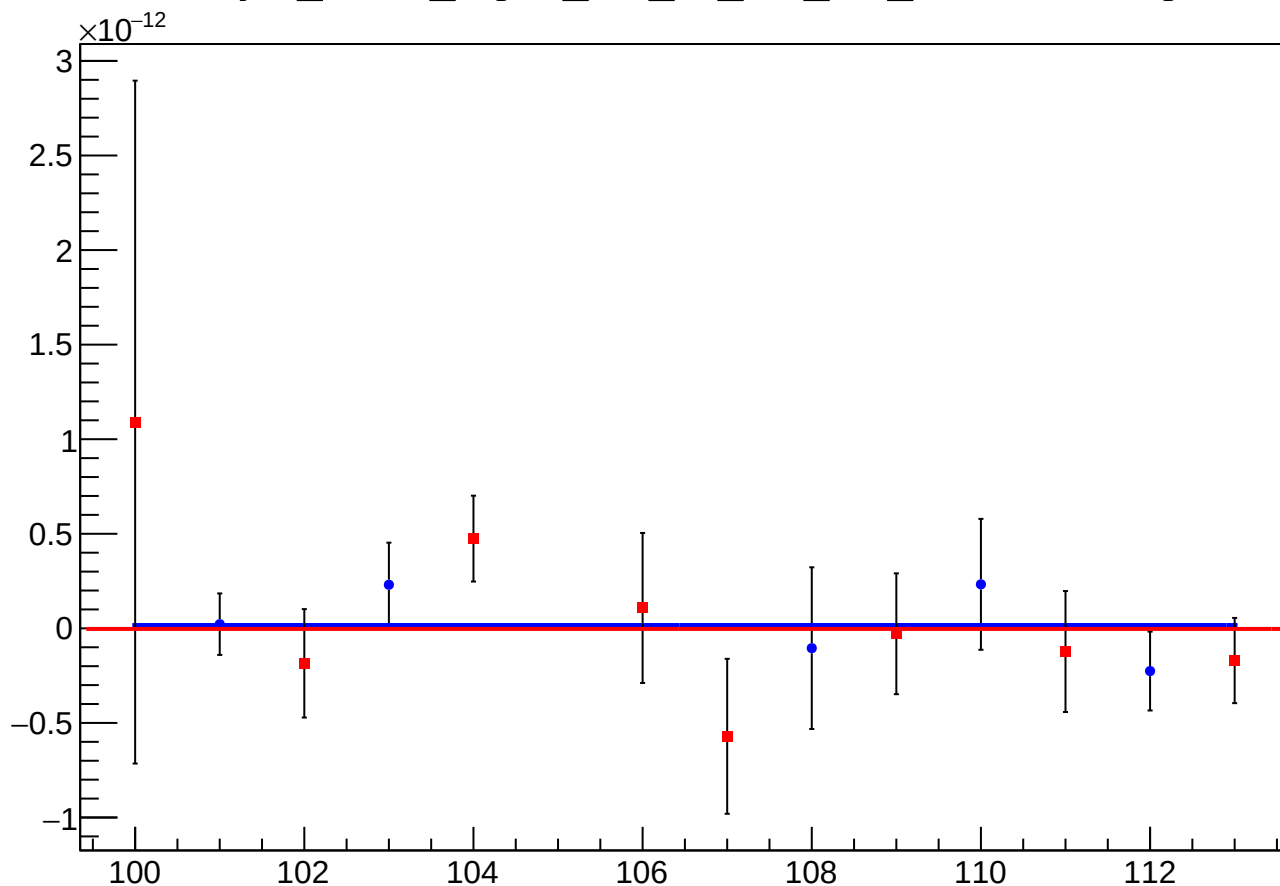
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 252.636 $\pm$ 0.076  $\chi^2$ /NDF: 192065.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.9/7

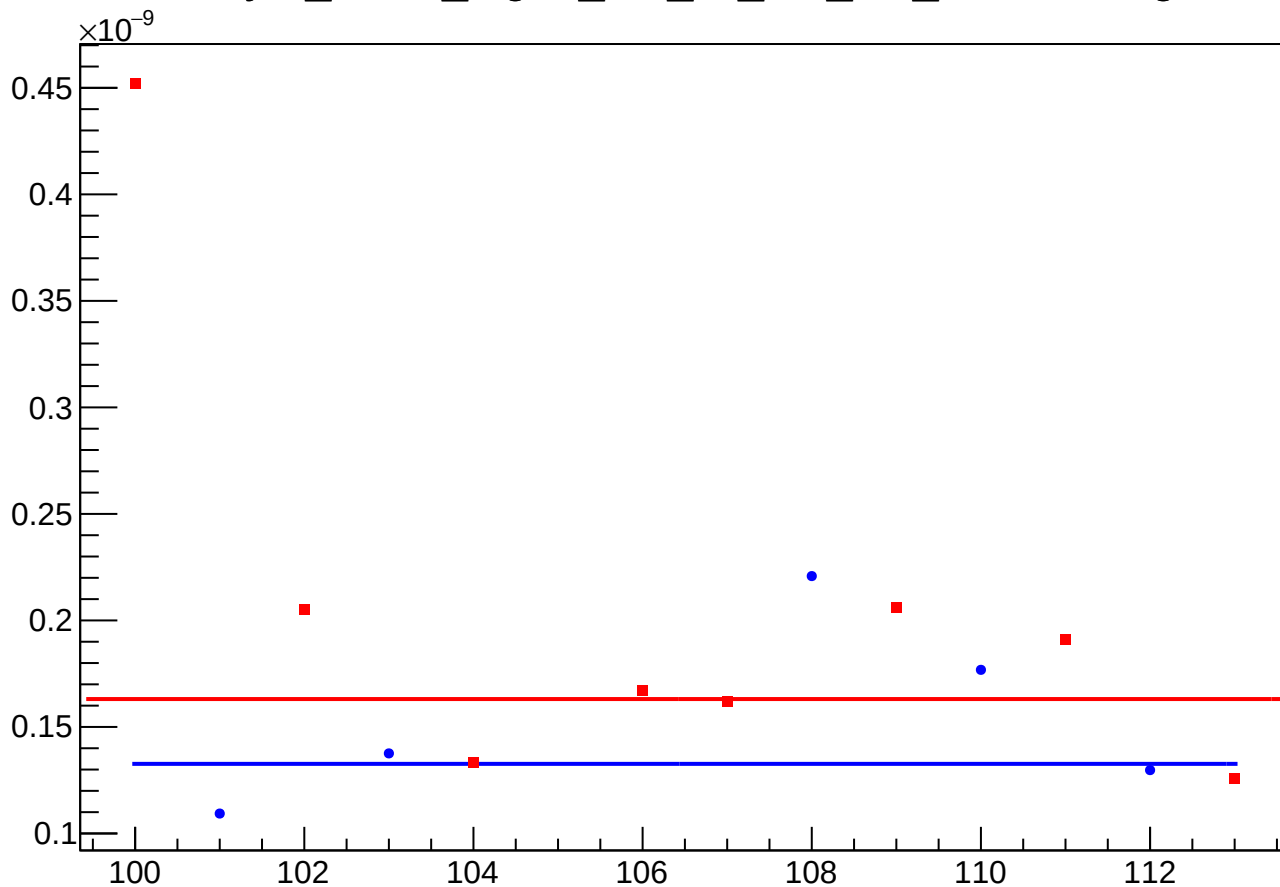
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 160146.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 235300.4/7

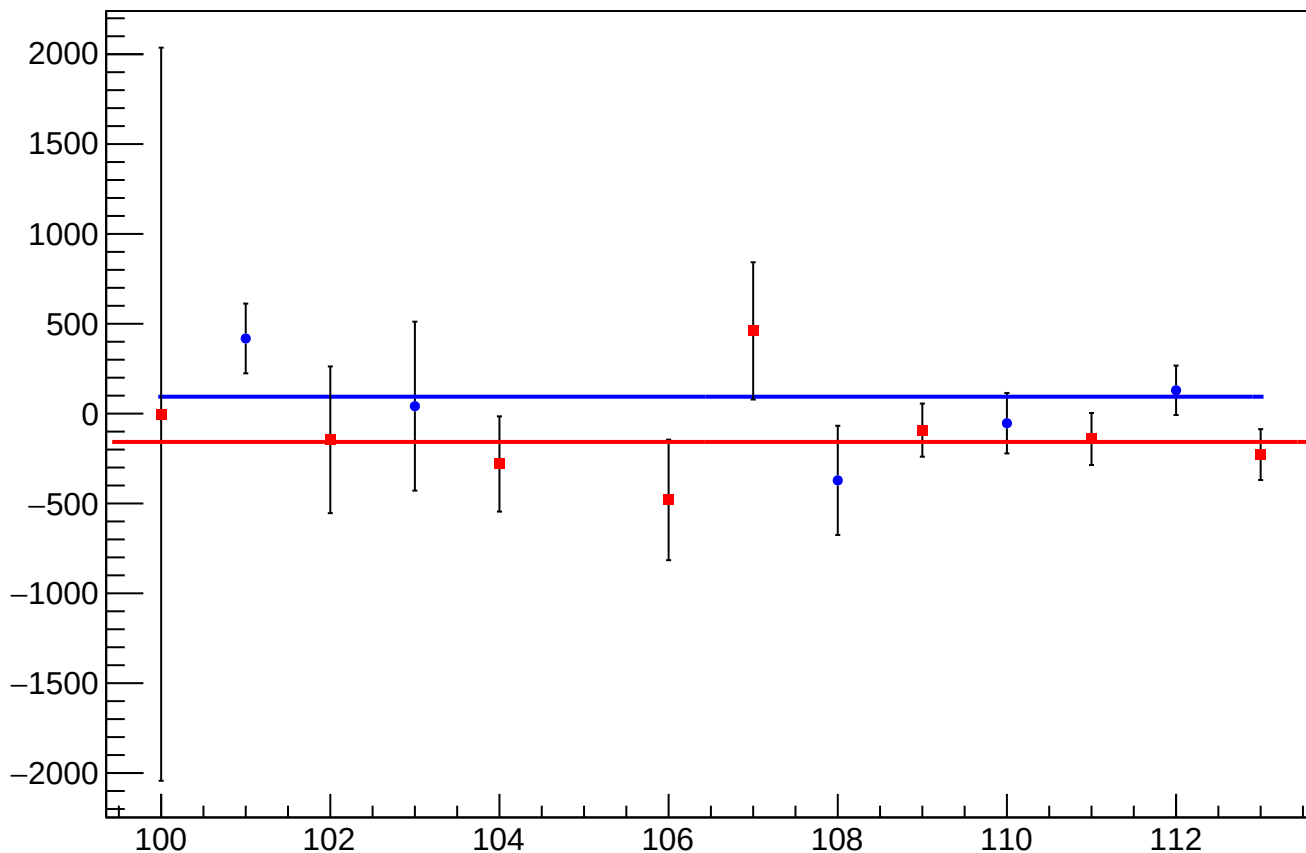
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 477658.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_mean vs Slug



Right In: 94.085+/-87.654  $\chi^2/\text{NDF}$ : 6.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -157.495+/-74.598  $\chi^2/\text{NDF}$ : 4.2/7

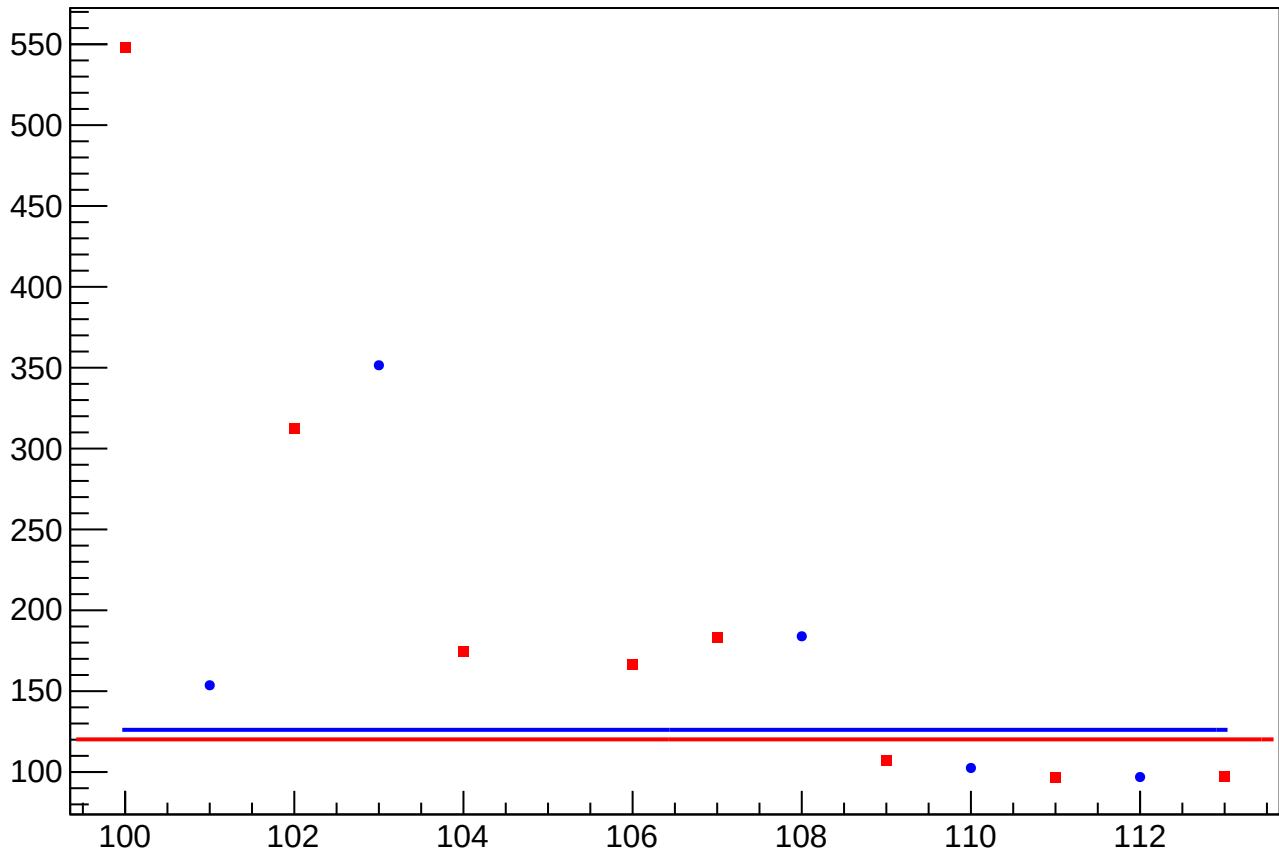
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -51.817+/-56.810  $\chi^2/\text{NDF}$ : 15.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_rms vs Slug



Right In: 126.100 $\pm$ 0.062  $\chi^2$ /NDF: 701978.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 120.191 $\pm$ 0.053  $\chi^2$ /NDF: 829027.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

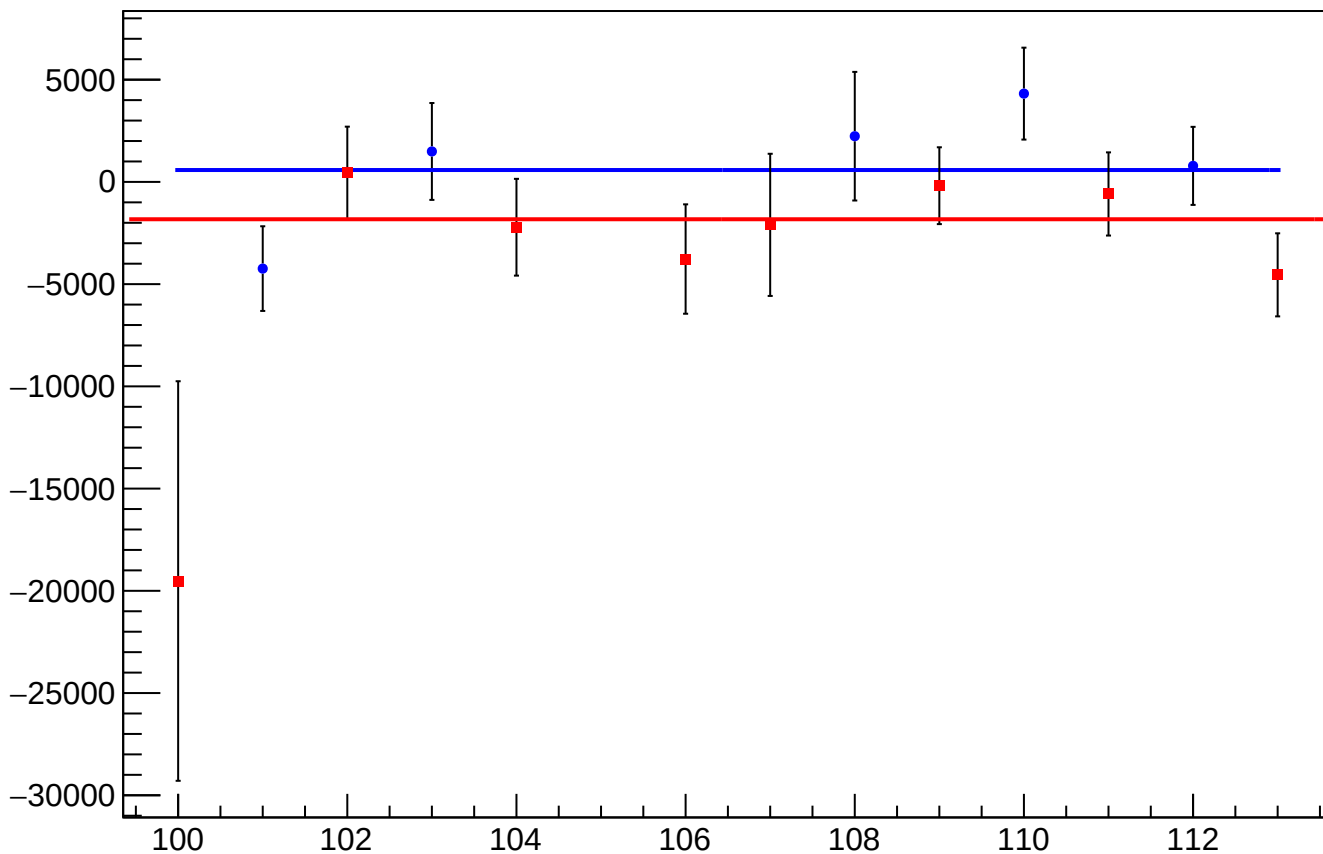
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 122.673 $\pm$ 0.040  $\chi^2$ /NDF: 1536276.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam3\_reg\_correction\_mean vs Slug



Right In: 581.250+/-1007.648  $\chi^2/\text{NDF}$ : 8.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1826.633+/-852.907  $\chi^2/\text{NDF}$ : 7.8/7

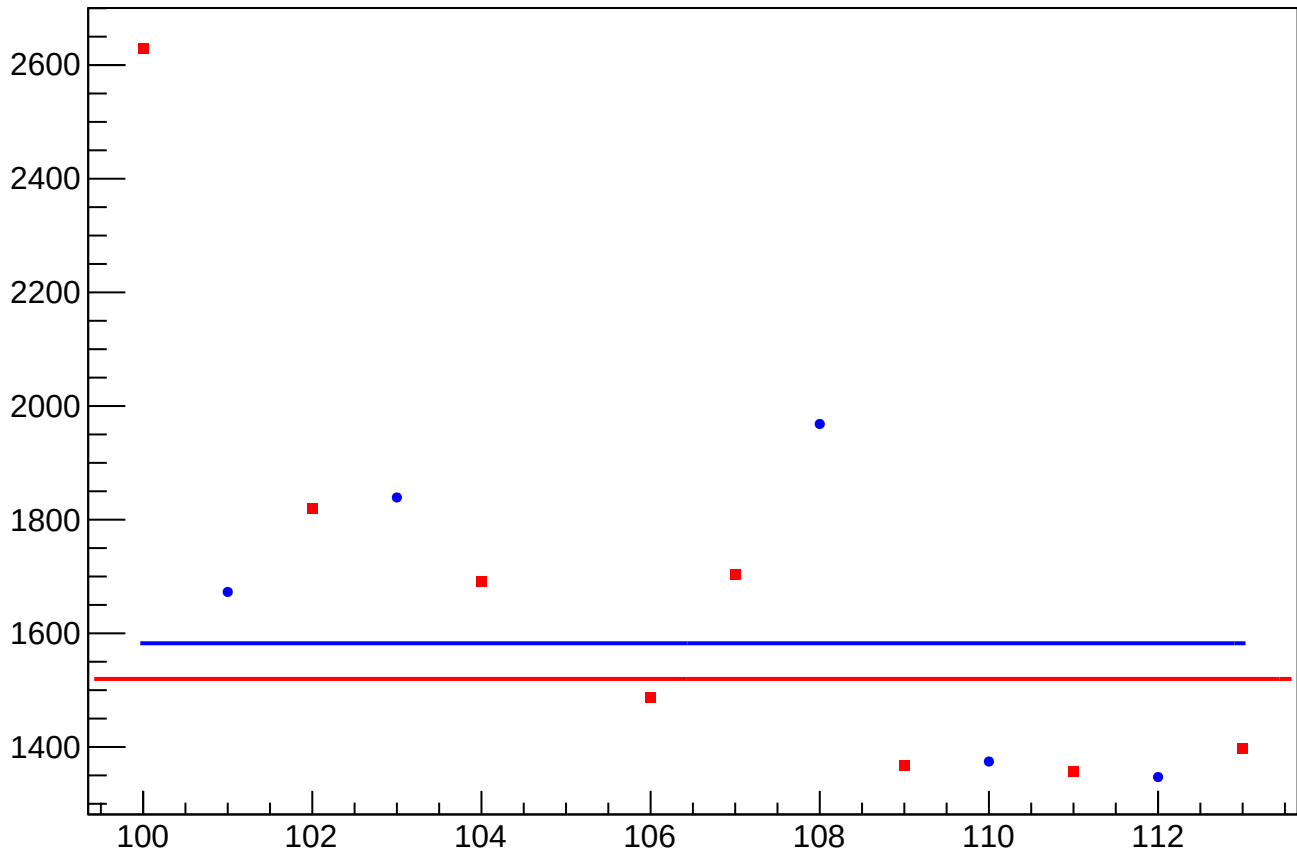
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -821.577+/-651.008  $\chi^2/\text{NDF}$ : 19.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_reg\_correction\_rms vs Slug



Right In: 1582.505 $\pm$ 0.713  $\chi^2$ /NDF: 104917.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1519.749 $\pm$ 0.603  $\chi^2$ /NDF: 110229.7/7

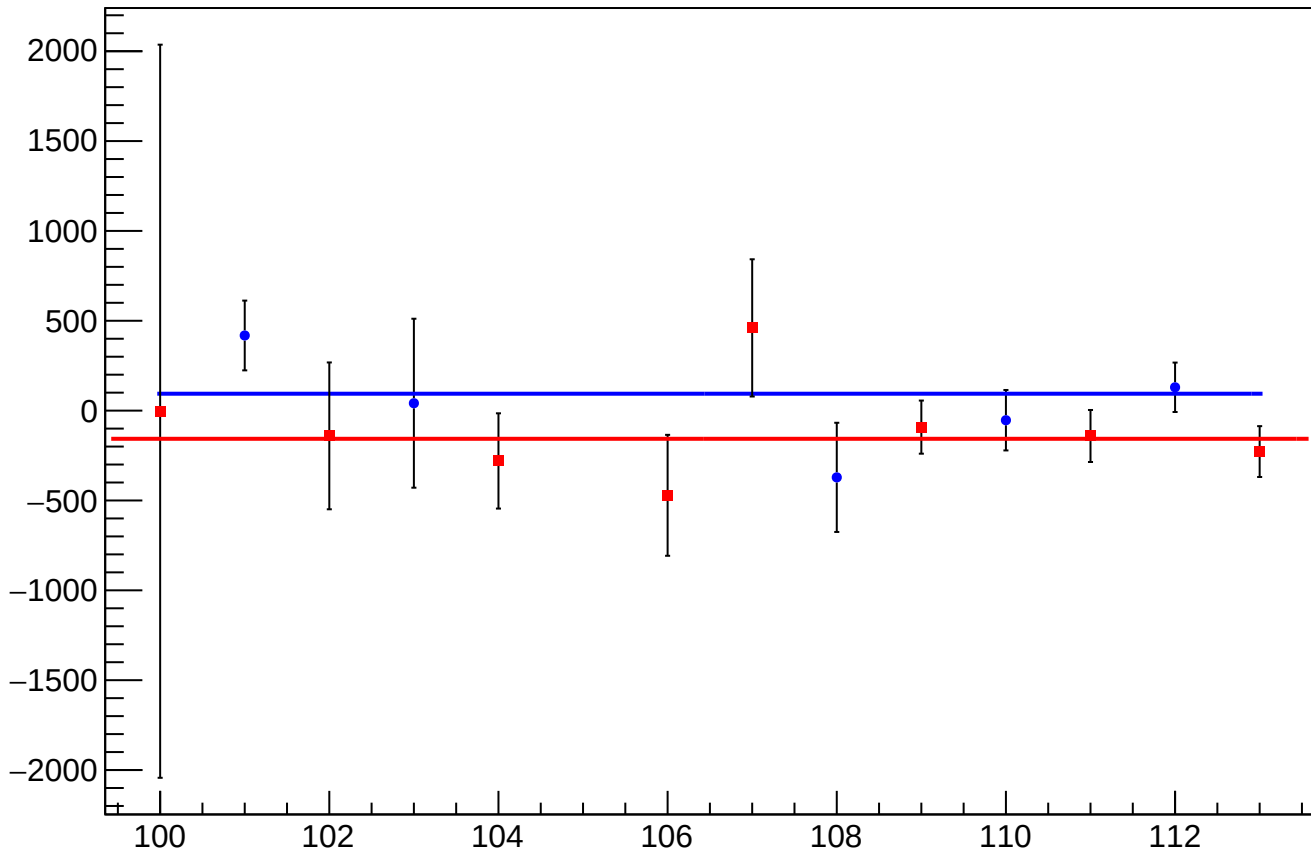
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1545.943 $\pm$ 0.460  $\chi^2$ /NDF: 219666.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam3\_mean vs Slug



Right In: 94.060 $\pm$ 87.654  $\chi^2$ /NDF: 6.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -156.764 $\pm$ 74.611  $\chi^2$ /NDF: 4.2/7

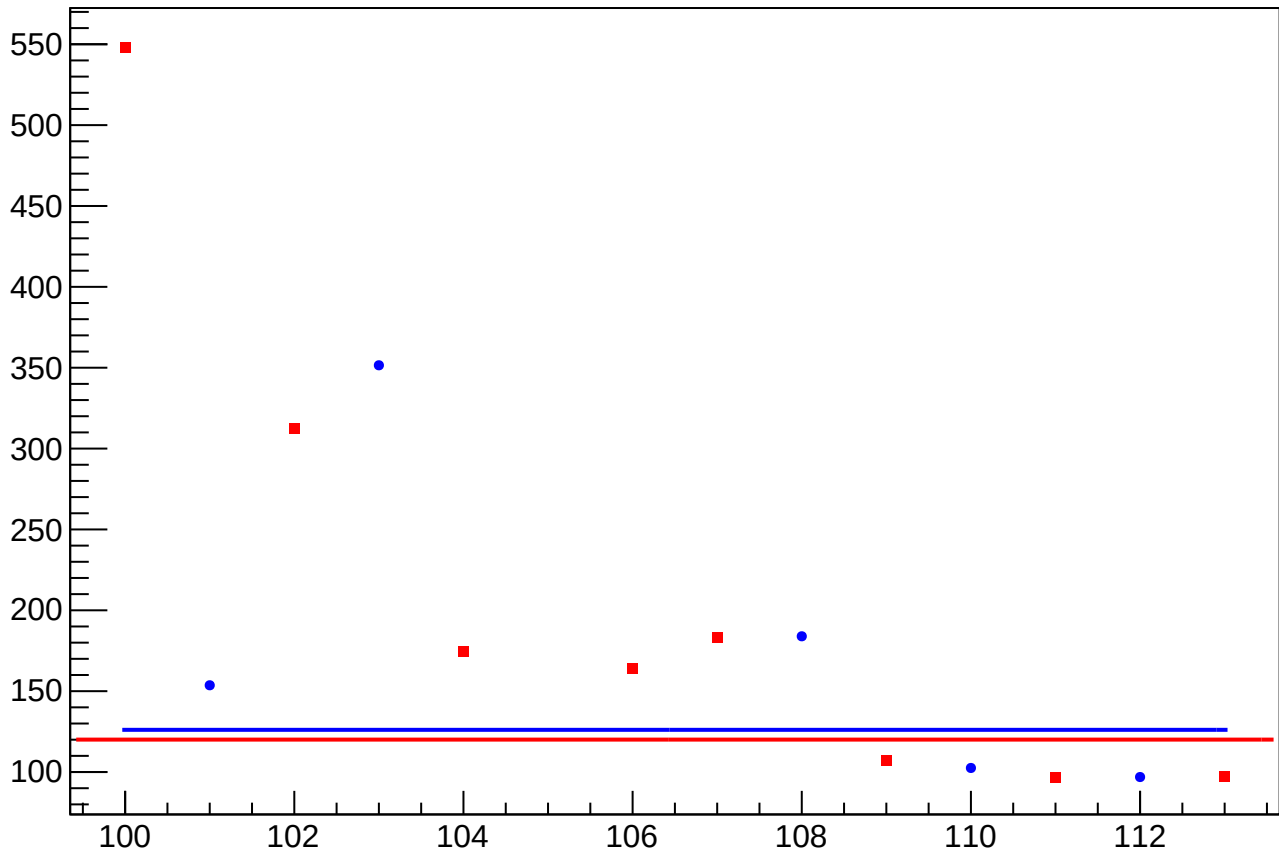
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -51.383 $\pm$ 56.815  $\chi^2$ /NDF: 14.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam3\_rms vs Slug



Right In: 126.100 $\pm$ 0.062  $\chi^2$ /NDF: 701980.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 120.054 $\pm$ 0.053  $\chi^2$ /NDF: 825038.5/7

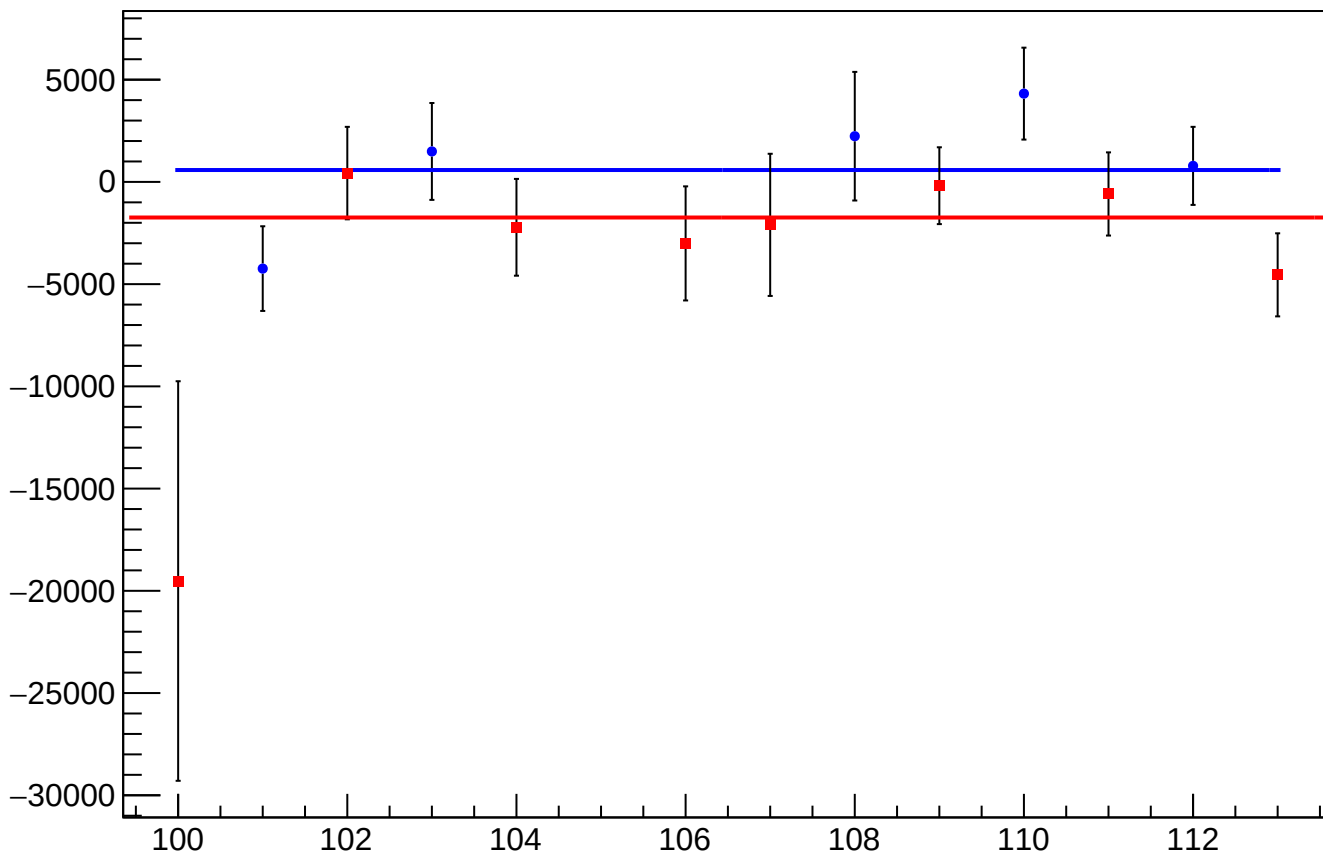
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 122.594 $\pm$ 0.040  $\chi^2$ /NDF: 1532536.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_cor\_correction\_mean vs Slug



Right In: 581.332 $\pm$ 1007.668  $\chi^2$ /NDF: 8.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1741.137 $\pm$ 856.542  $\chi^2$ /NDF: 7.4/7

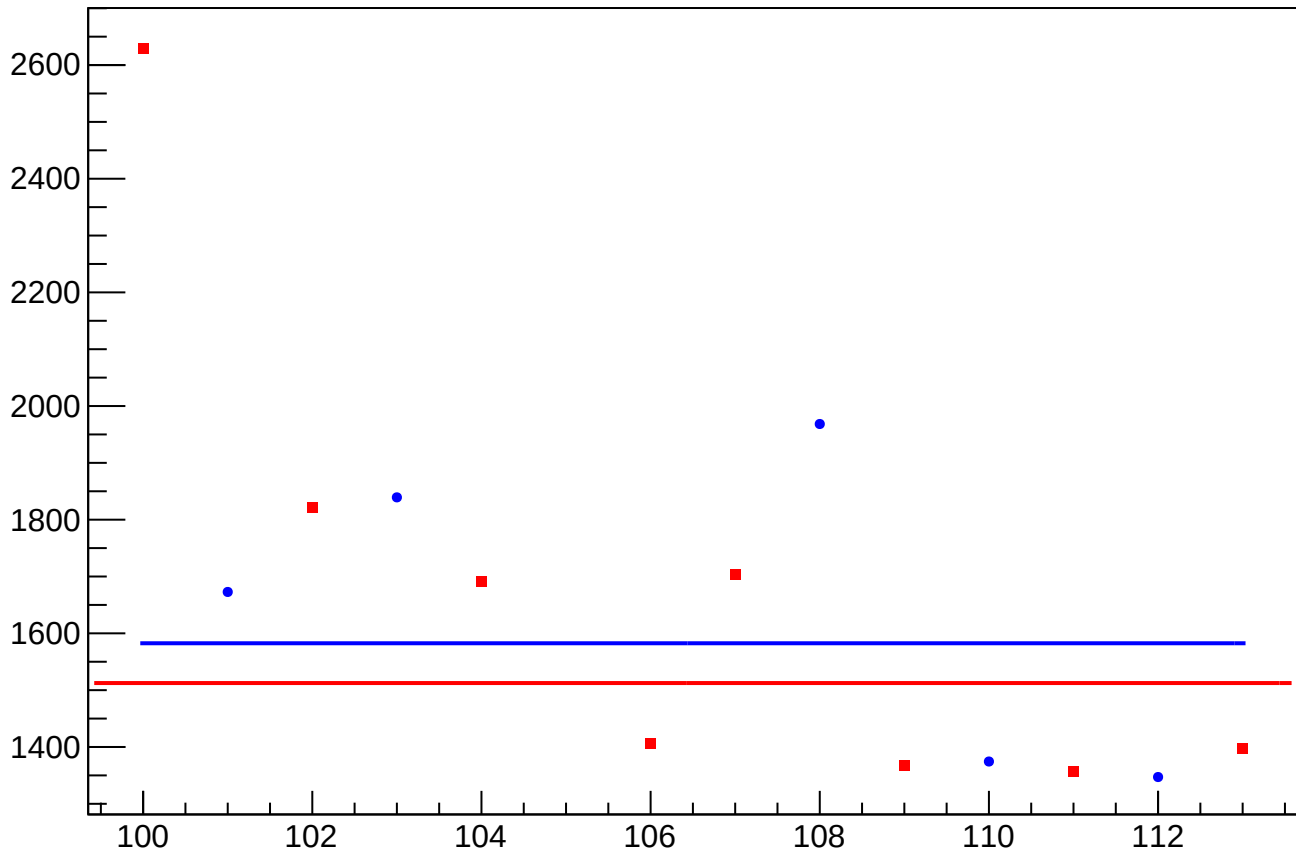
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -766.949 $\pm$ 652.625  $\chi^2$ /NDF: 19.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_cor\_correction\_rms vs Slug



Right In: 1582.530 $\pm$ 0.713  $\chi^2$ /NDF: 104948.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1512.519 $\pm$ 0.606  $\chi^2$ /NDF: 113391.5/7

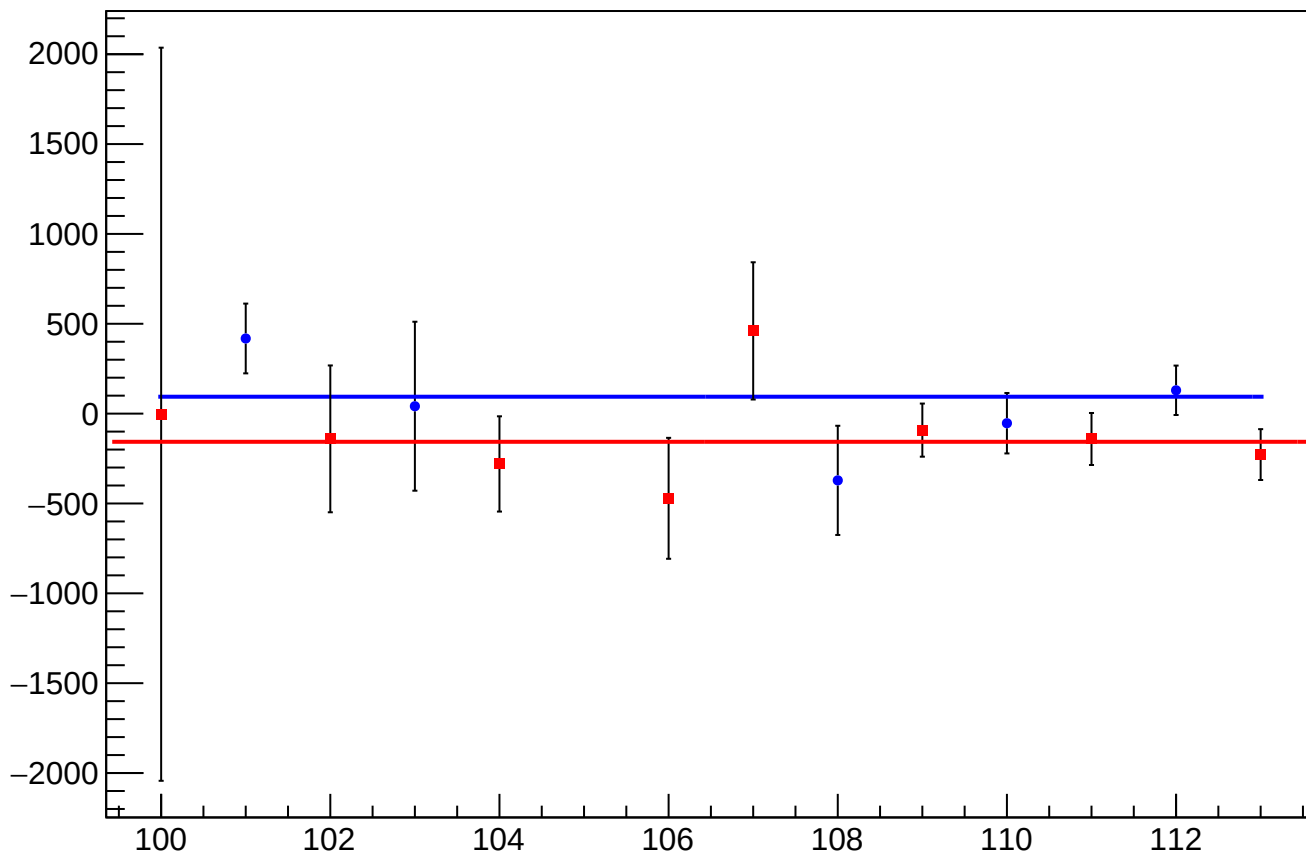
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1541.886 $\pm$ 0.461  $\chi^2$ /NDF: 223944.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam3\_mean vs Slug



Right In: 94.060 $\pm$ 87.654  $\chi^2$ /NDF: 6.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -156.764 $\pm$ 74.611  $\chi^2$ /NDF: 4.2/7

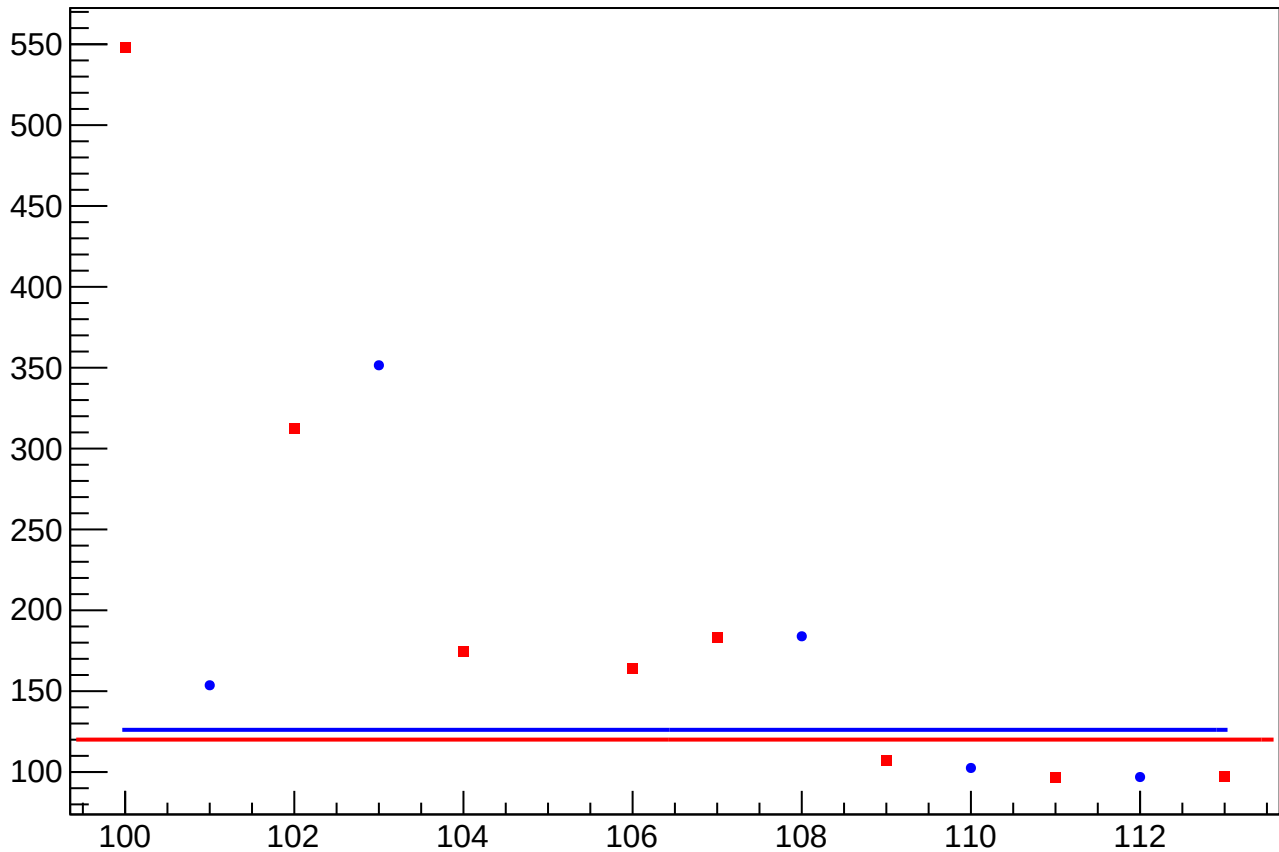
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -51.383 $\pm$ 56.815  $\chi^2$ /NDF: 14.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam3\_rms vs Slug



Right In: 126.100 $\pm$ 0.062  $\chi^2$ /NDF: 701980.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 120.054 $\pm$ 0.053  $\chi^2$ /NDF: 825038.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

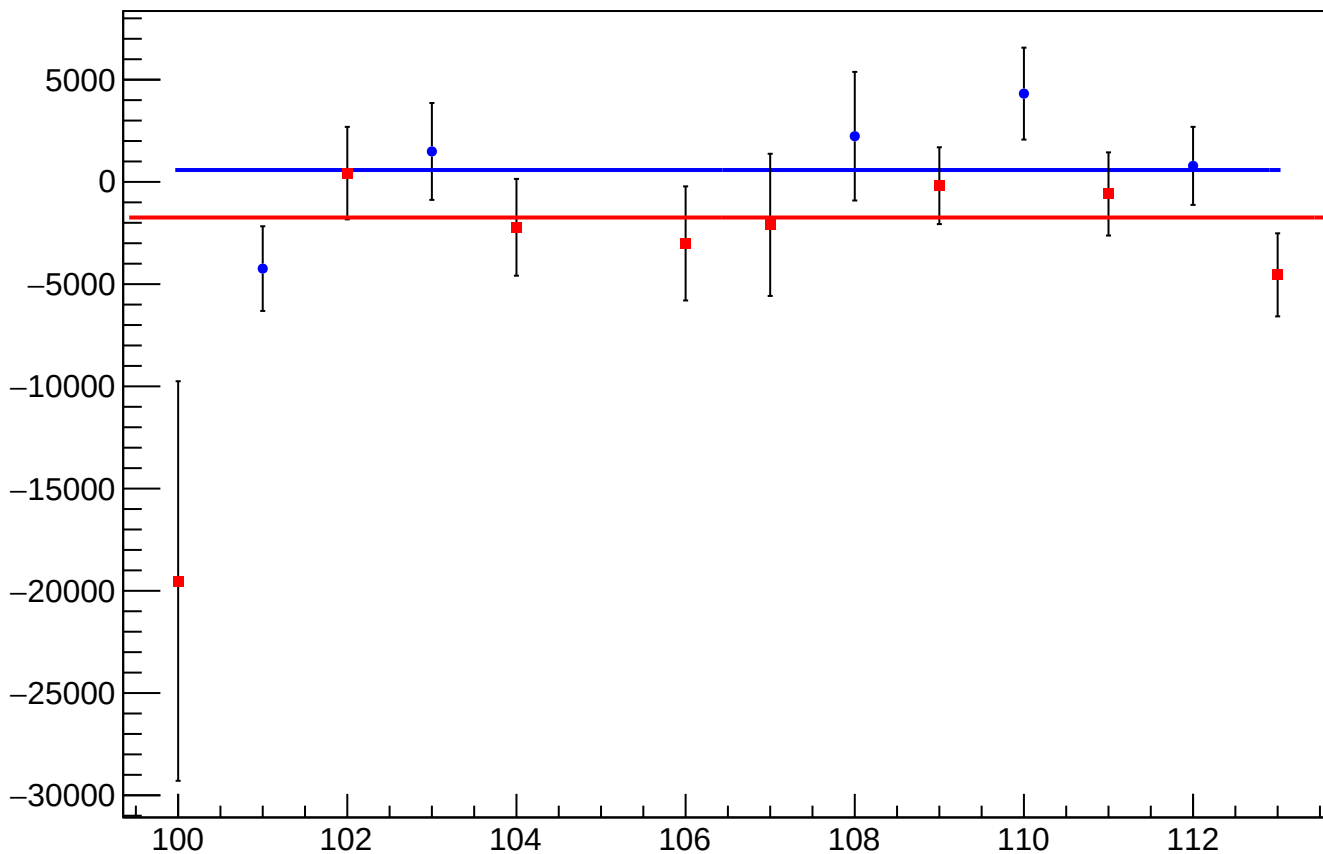
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 122.594 $\pm$ 0.040  $\chi^2$ /NDF: 1532536.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam3\_eigen\_cor\_correction\_mean vs Slug



Right In: 581.332 $\pm$ 1007.668  $\chi^2$ /NDF: 8.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1741.137 $\pm$ 856.542  $\chi^2$ /NDF: 7.4/7

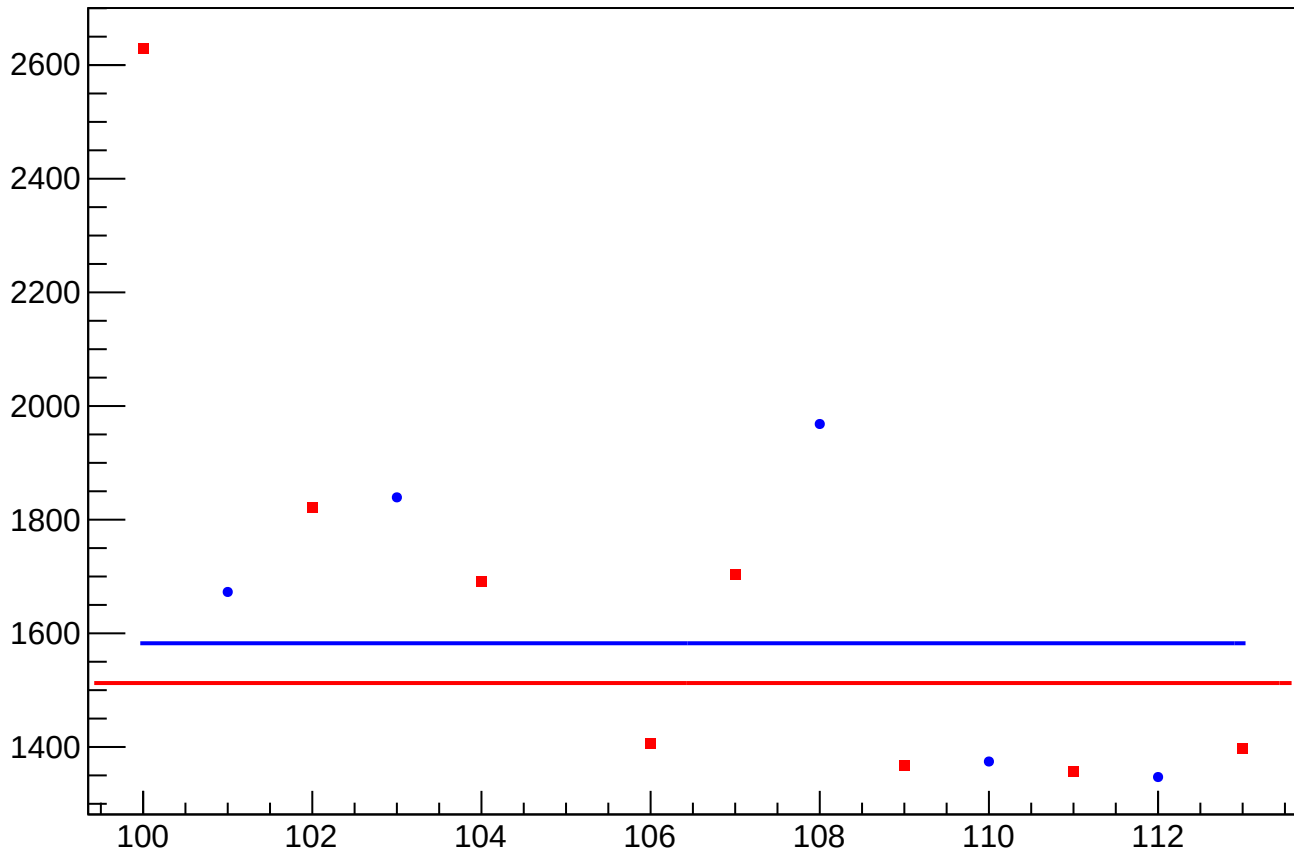
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -766.949 $\pm$ 652.625  $\chi^2$ /NDF: 19.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_eigen\_cor\_correction\_rms vs Slug



Right In: 1582.530+/-0.713  $\chi^2/\text{NDF}$ : 104948.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1512.519+/-0.606  $\chi^2/\text{NDF}$ : 113391.5/7

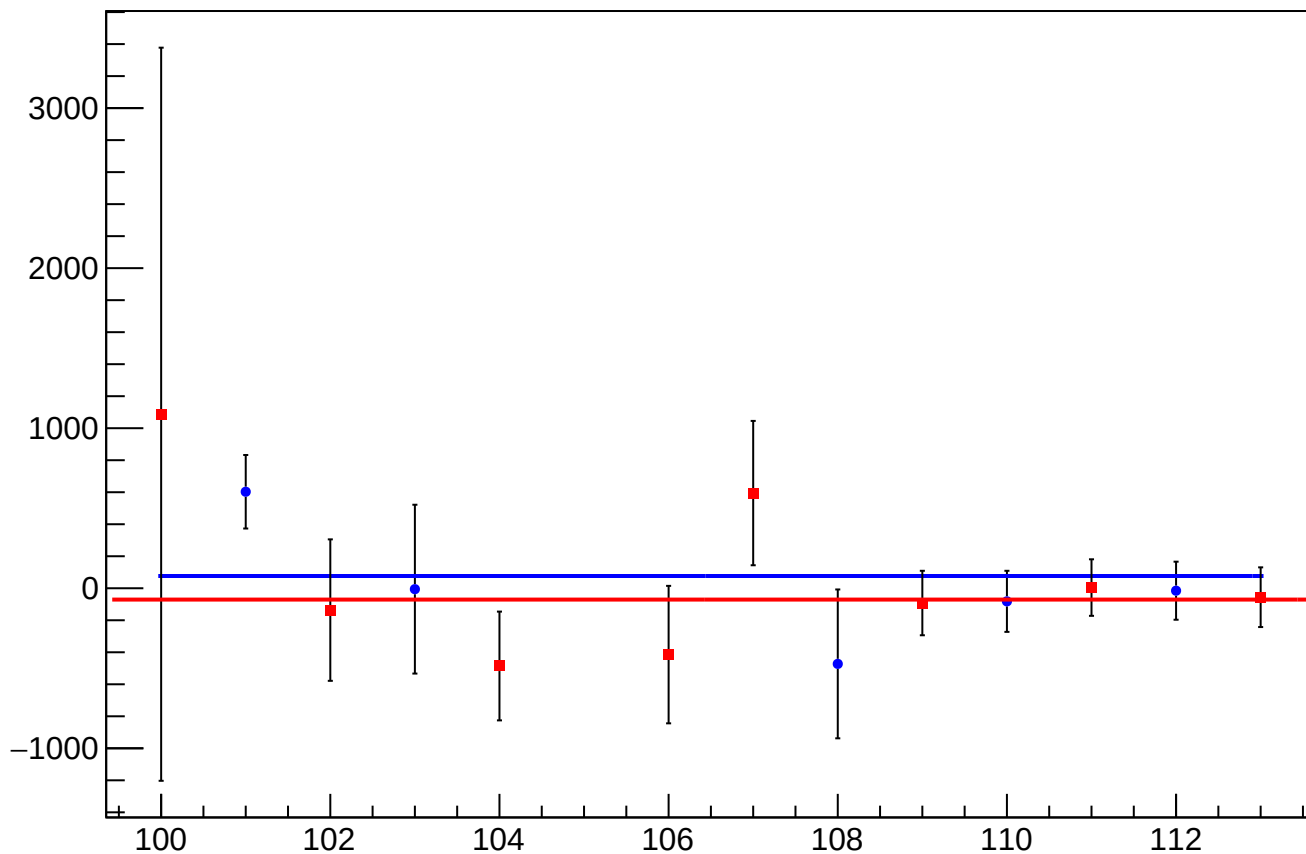
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1541.886+/-0.461  $\chi^2/\text{NDF}$ : 223944.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam3\_mean vs Slug



Right In: 76.535+/-108.433  $\chi^2/\text{NDF}$ : 7.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -70.769+/-95.451  $\chi^2/\text{NDF}$ : 4.8/7

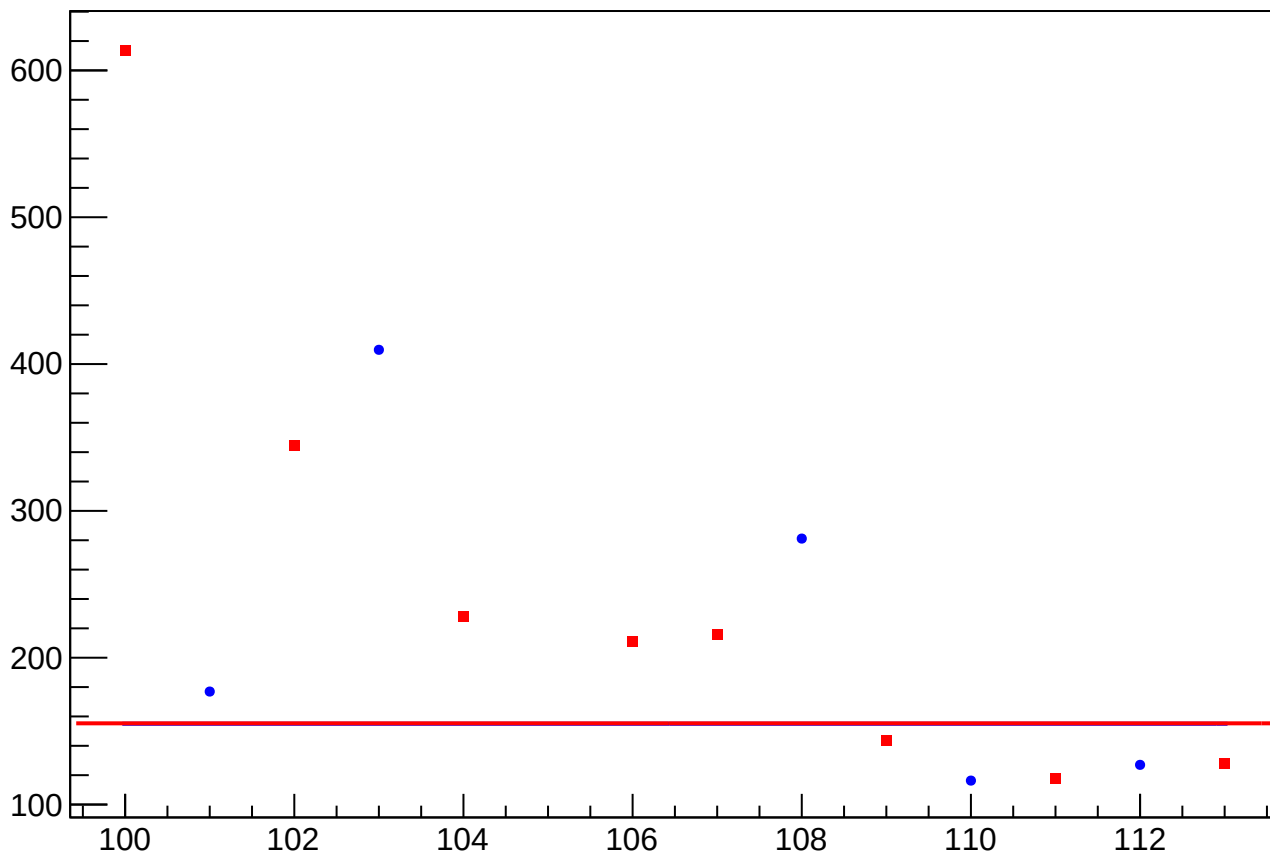
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.458+/-71.646  $\chi^2/\text{NDF}$ : 13.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam3\_rms vs Slug



Right In: 155.018 $\pm$ 0.077  $\chi^2$ /NDF: 761676.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 155.312 $\pm$ 0.067  $\chi^2$ /NDF: 750117.5/7

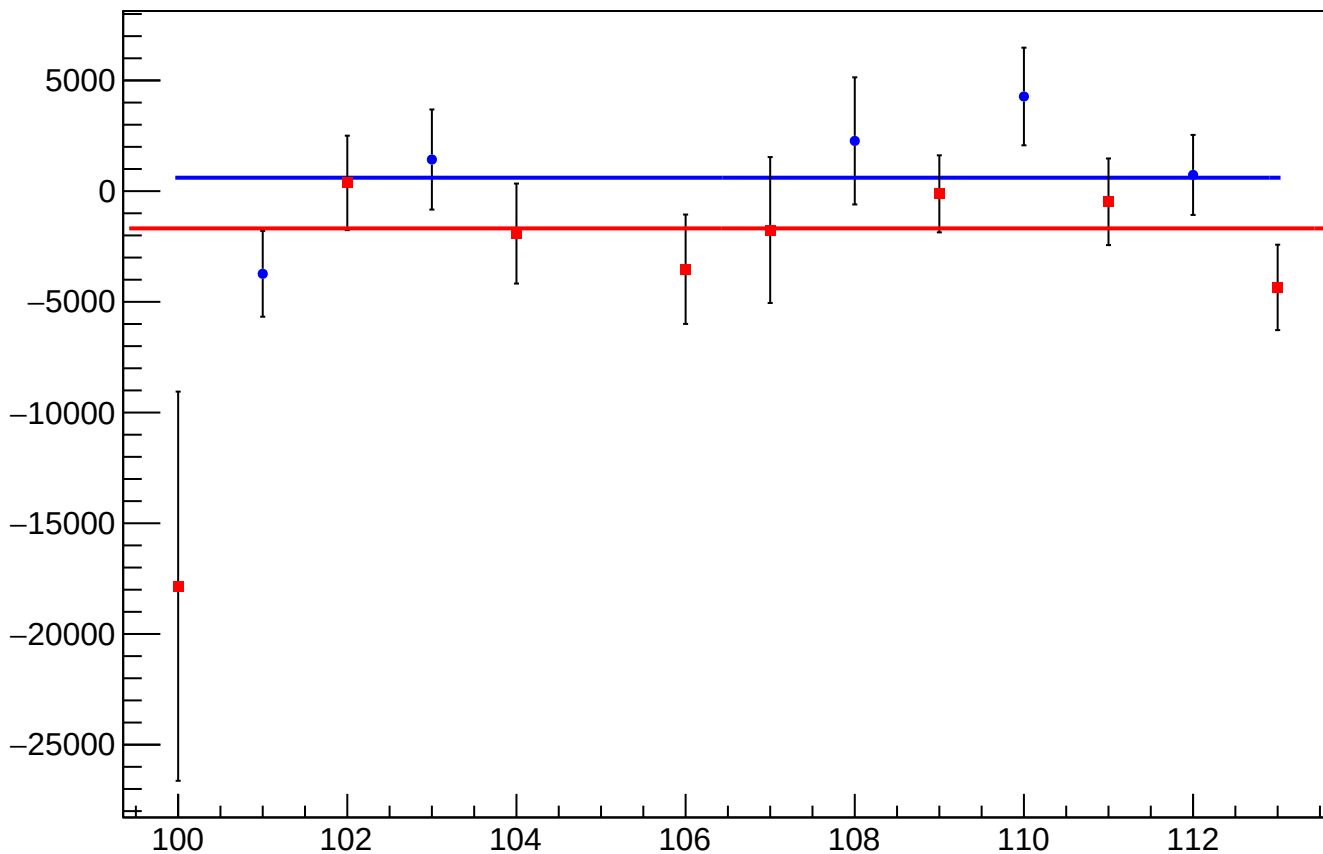
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 155.184 $\pm$ 0.051  $\chi^2$ /NDF: 1511801.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_dit\_correction\_mean vs Slug



Right In: 606.749+/-955.599  $\chi^2/\text{NDF}$ : 8.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1682.131+/-804.495  $\chi^2/\text{NDF}$ : 8.0/7

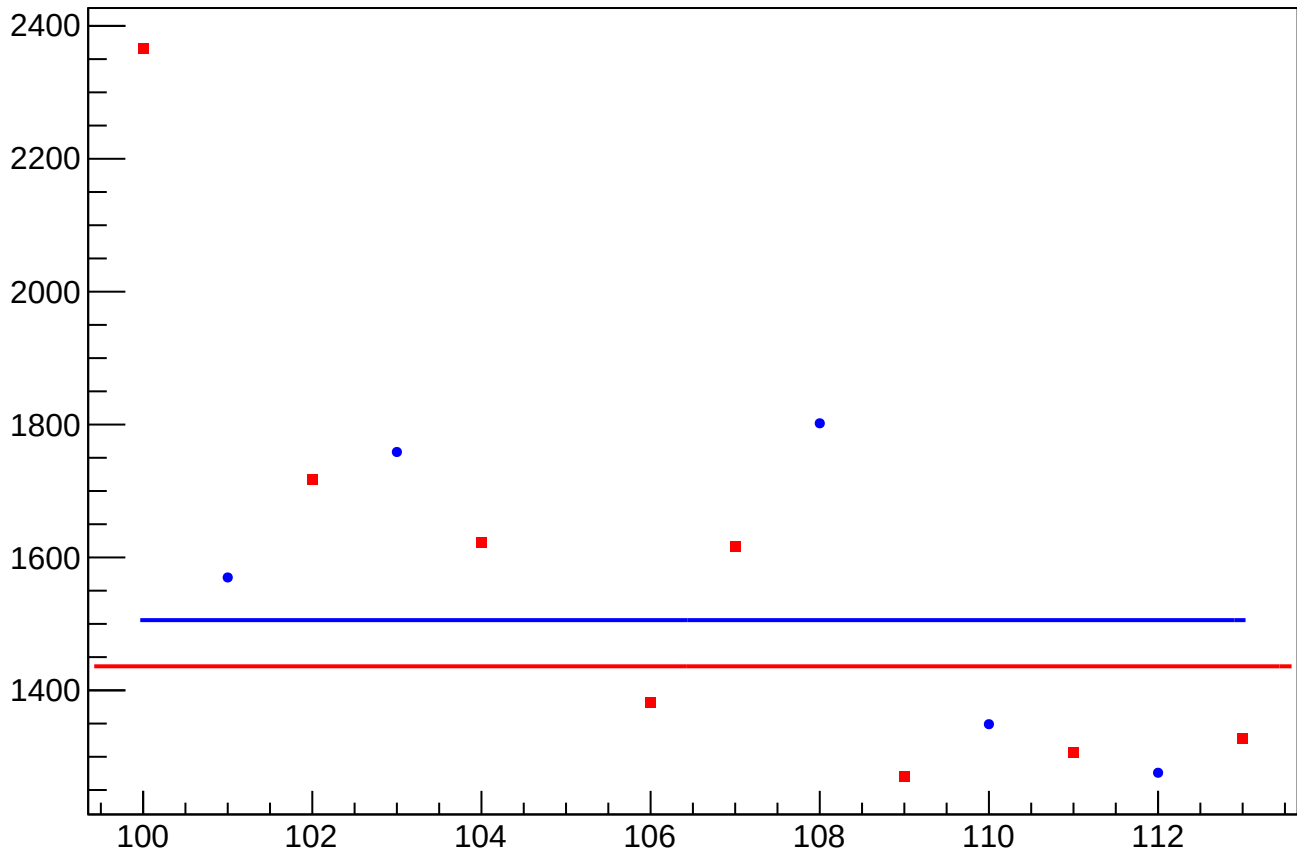
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -732.753+/-615.437  $\chi^2/\text{NDF}$ : 19.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_dit\_correction\_rms vs Slug



Right In: 1505.651 $\pm$ 0.676  $\chi^2$ /NDF: 90961.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1436.158 $\pm$ 0.569  $\chi^2$ /NDF: 111215.2/7

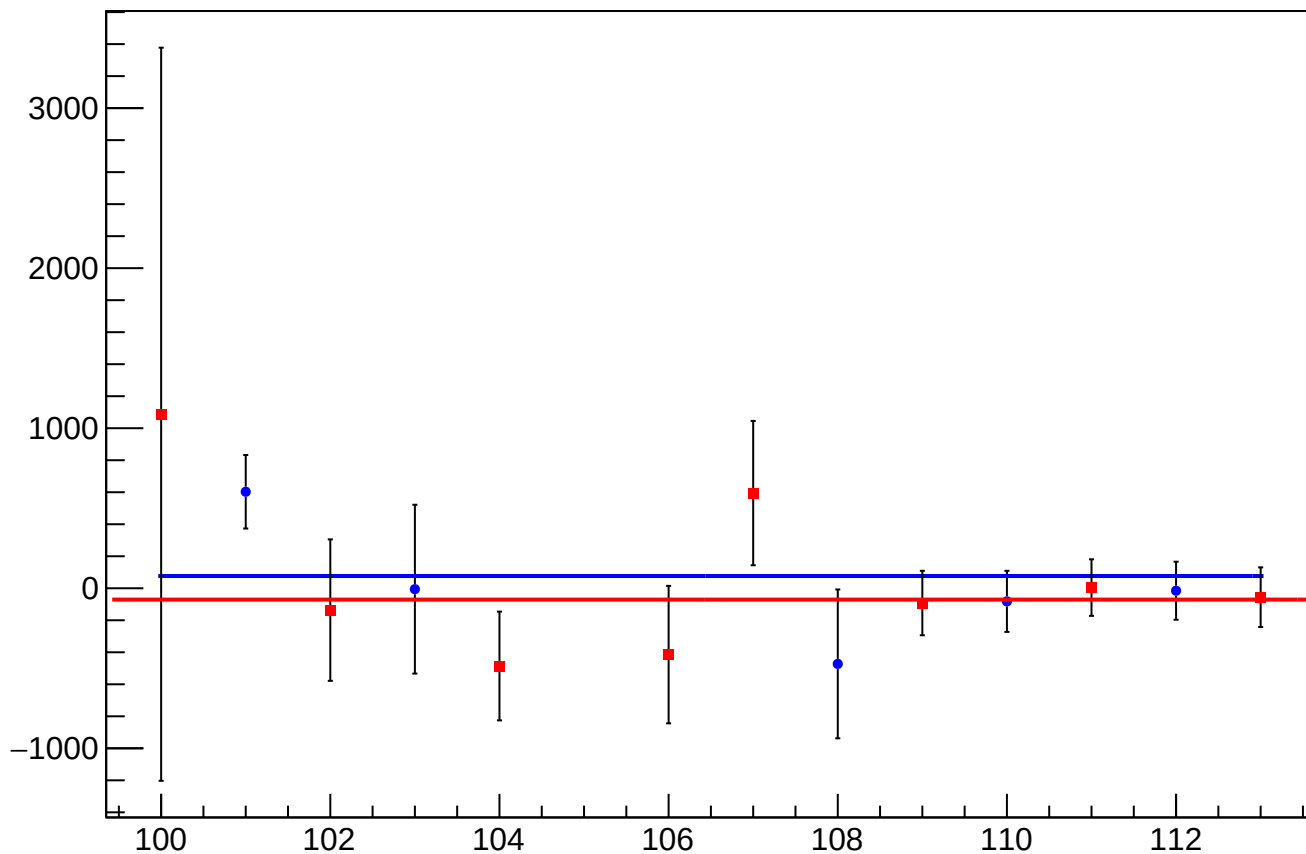
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1464.982 $\pm$ 0.435  $\chi^2$ /NDF: 208366.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam3\_mean vs Slug



Right In: 76.535+/-108.433  $\chi^2/\text{NDF}$ : 7.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -70.767+/-95.452  $\chi^2/\text{NDF}$ : 4.8/7

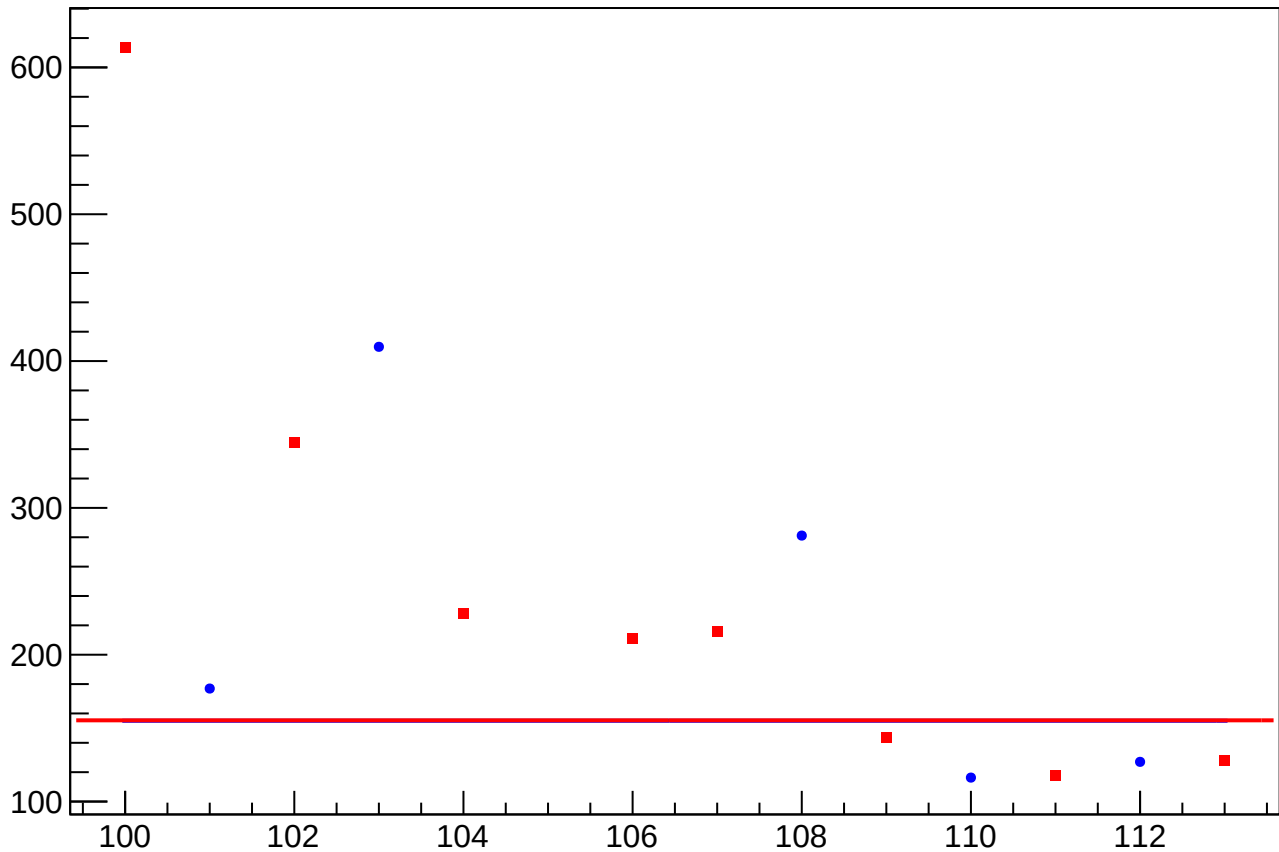
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.457+/-71.647  $\chi^2/\text{NDF}$ : 13.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam3\_rms vs Slug



Right In: 155.019 $\pm$ 0.077  $\chi^2$ /NDF: 761678.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 155.313 $\pm$ 0.067  $\chi^2$ /NDF: 750123.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

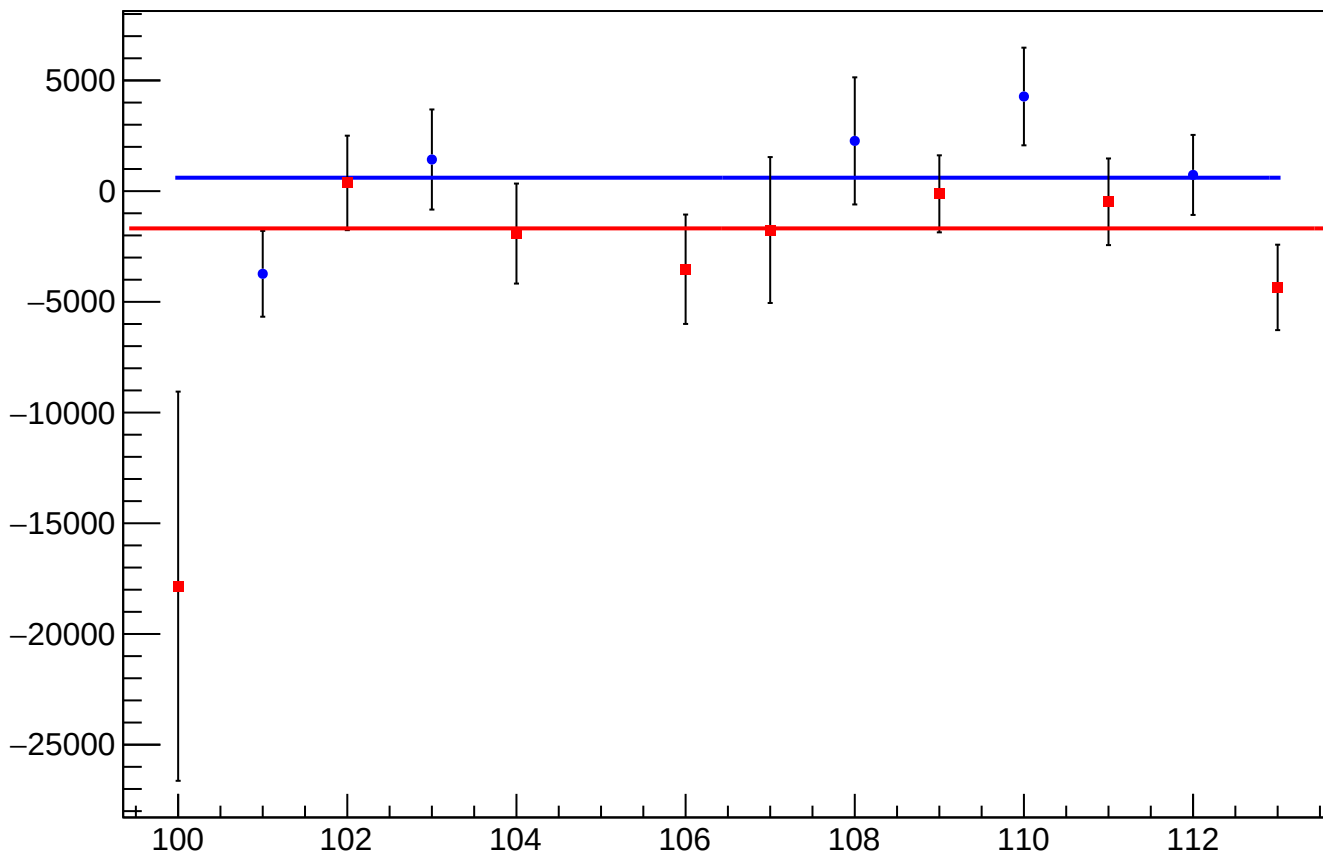
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 155.185 $\pm$ 0.051  $\chi^2$ /NDF: 1511810.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam3\_eigen\_dit\_correction\_mean vs Slug



Right In: 606.745+/-955.597  $\chi^2/\text{NDF}$ : 8.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1682.127+/-804.494  $\chi^2/\text{NDF}$ : 8.0/7

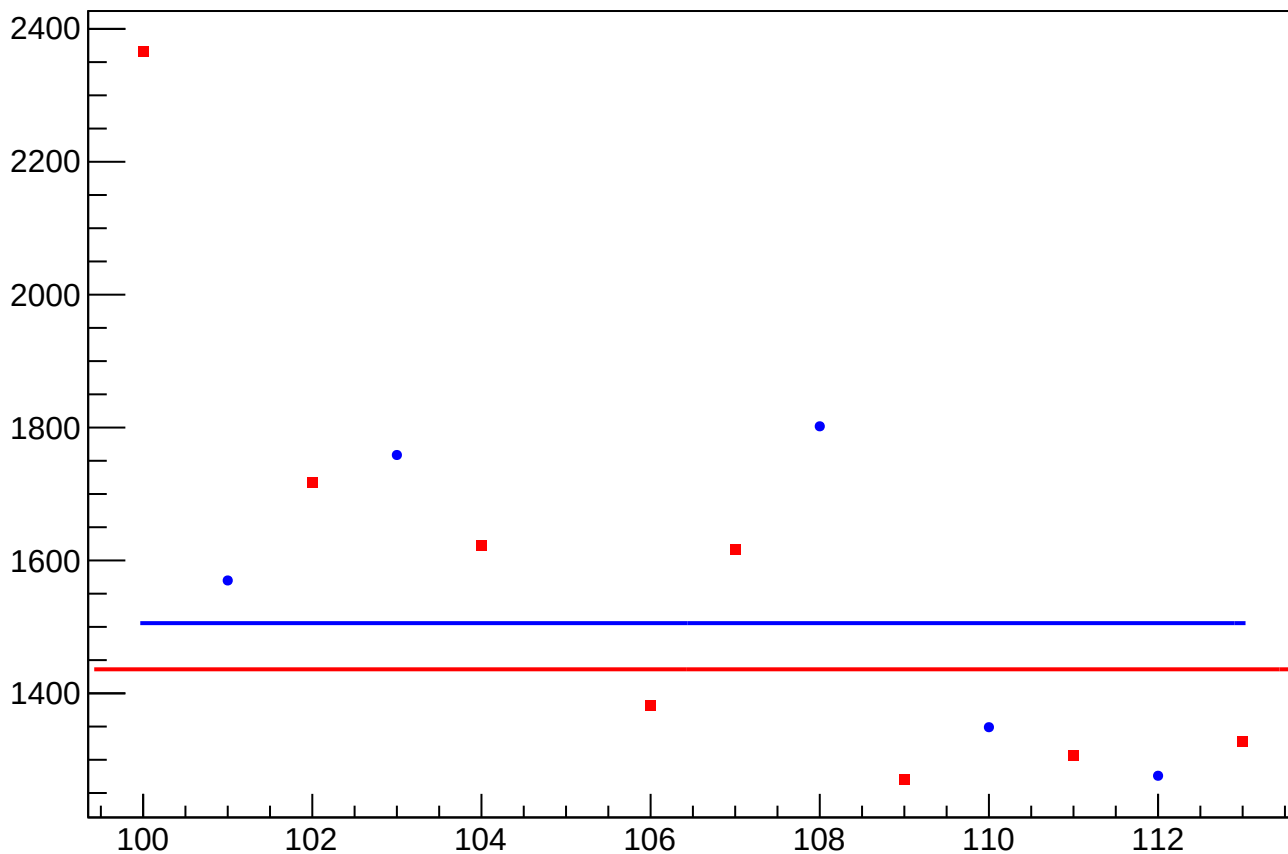
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -732.752+/-615.436  $\chi^2/\text{NDF}$ : 19.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_eigen\_dit\_correction\_rms vs Slug



Right In: 1505.648 $\pm$ 0.676  $\chi^2$ /NDF: 90959.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1436.155 $\pm$ 0.569  $\chi^2$ /NDF: 111213.2/7

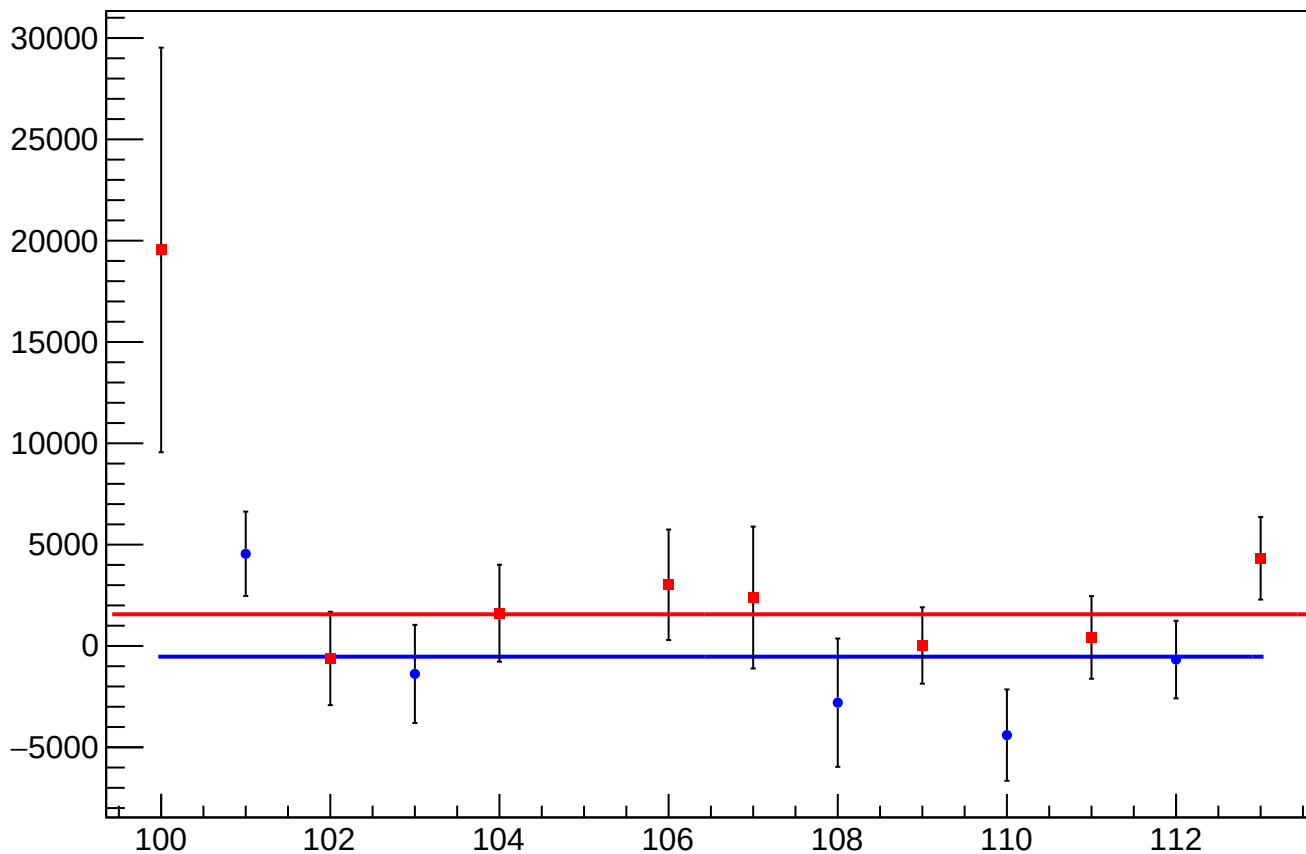
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1464.979 $\pm$ 0.435  $\chi^2$ /NDF: 208362.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_mean vs Slug



Right In: -529.112 $\pm$ 1014.836  $\chi^2$ /NDF: 9.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1563.187 $\pm$ 859.926  $\chi^2$ /NDF: 7.3/7

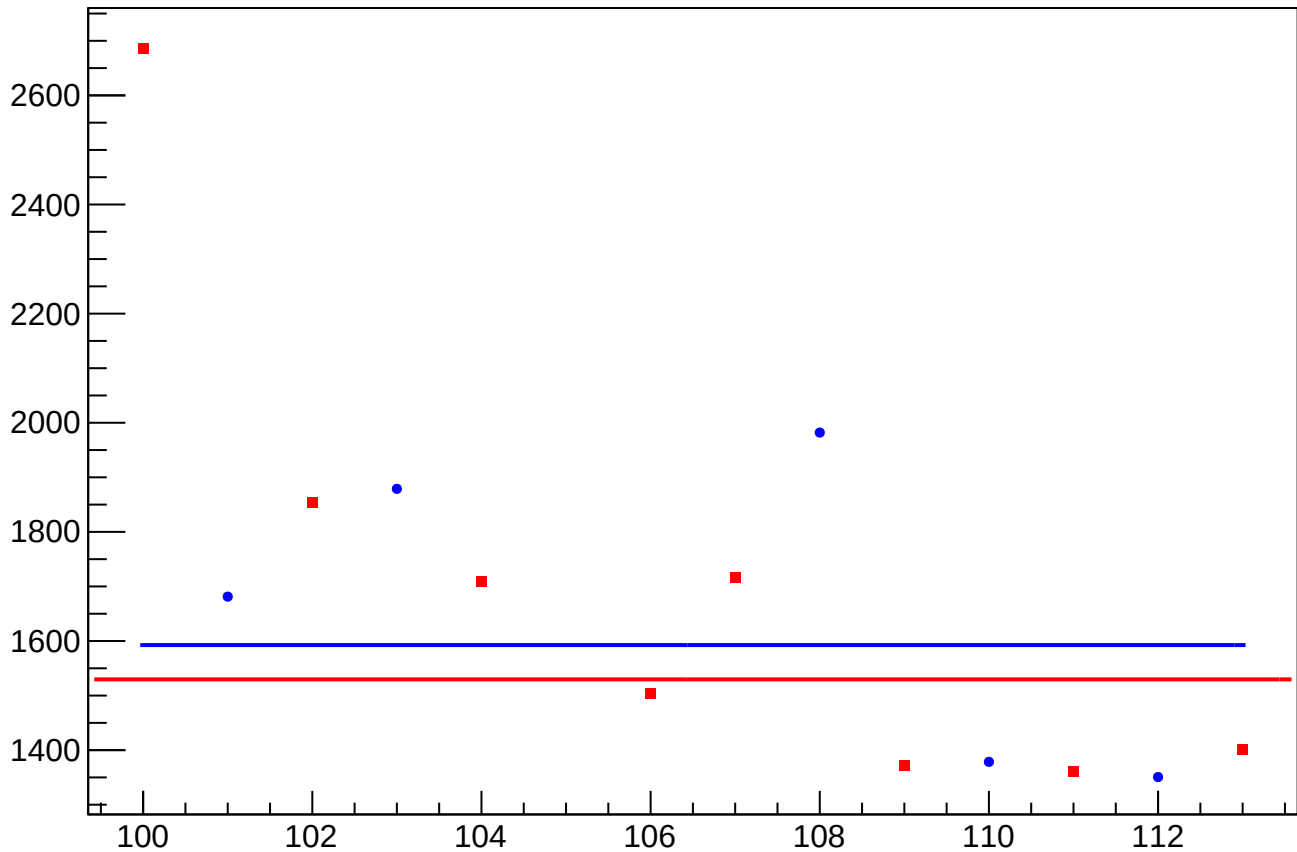
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 688.750 $\pm$ 656.067  $\chi^2$ /NDF: 19.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_rms vs Slug



Right In: 1592.574 $\pm$ 0.718  $\chi^2$ /NDF: 111842.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1529.693 $\pm$ 0.608  $\chi^2$ /NDF: 119113.2/7

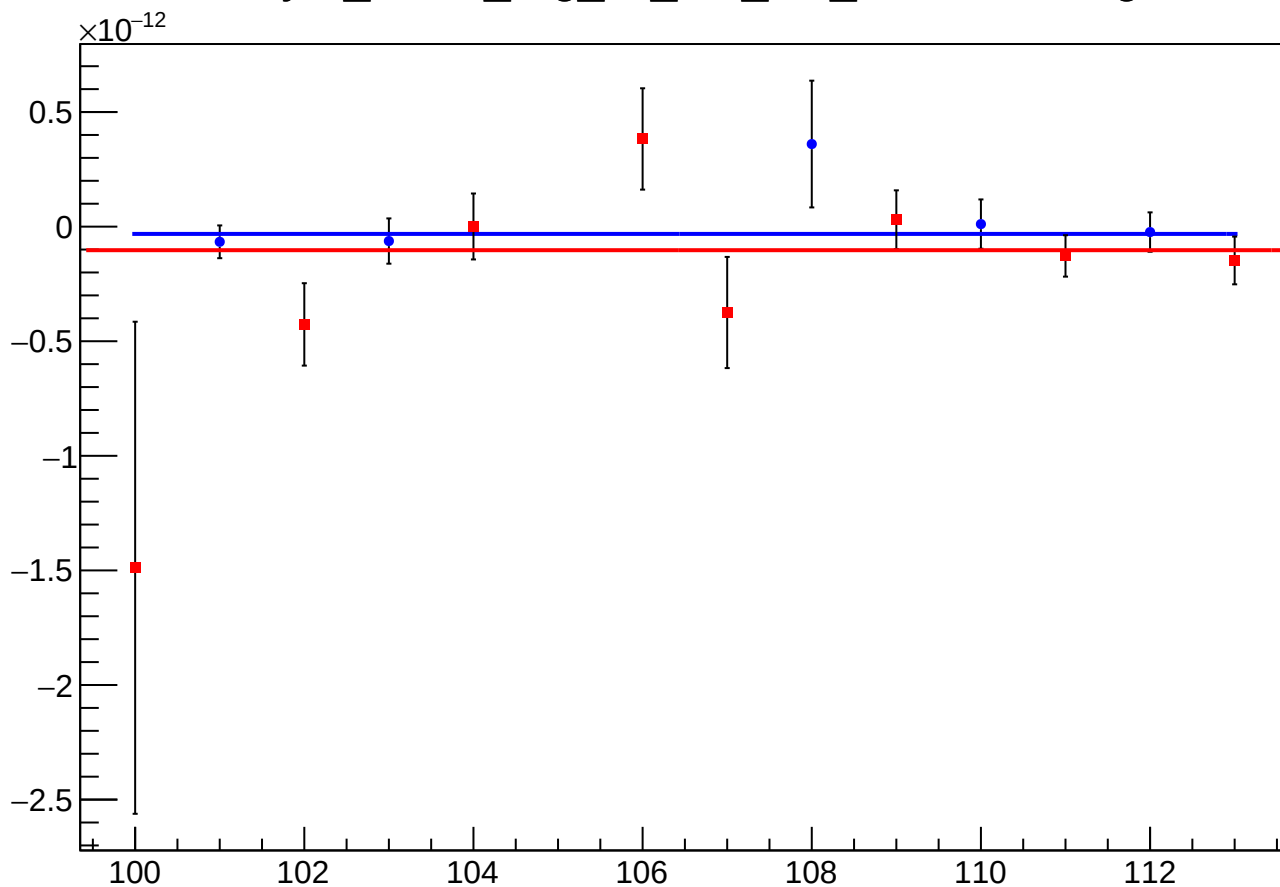
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1555.973 $\pm$ 0.464  $\chi^2$ /NDF: 235424.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 12.8/7

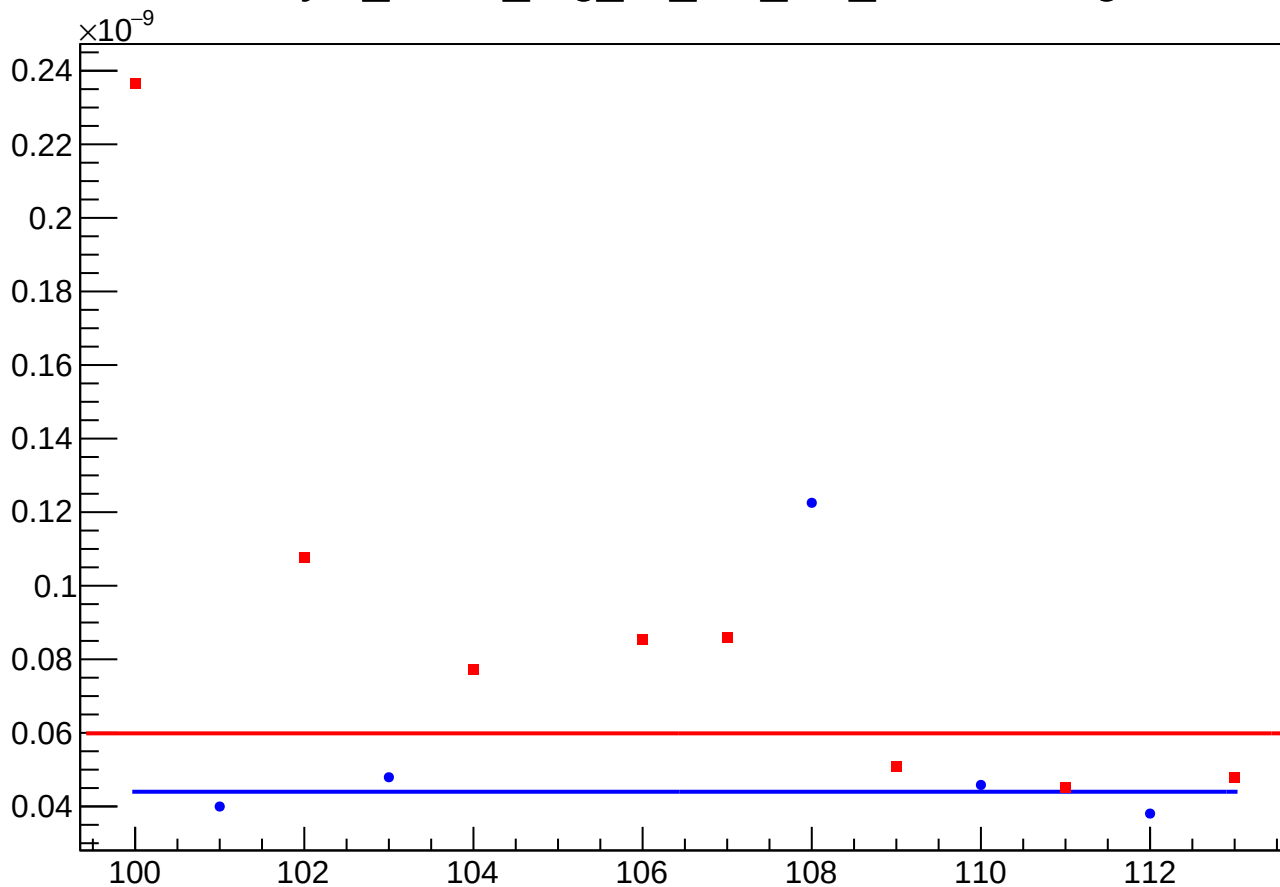
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 16.5/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 181000.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 363442.2/7

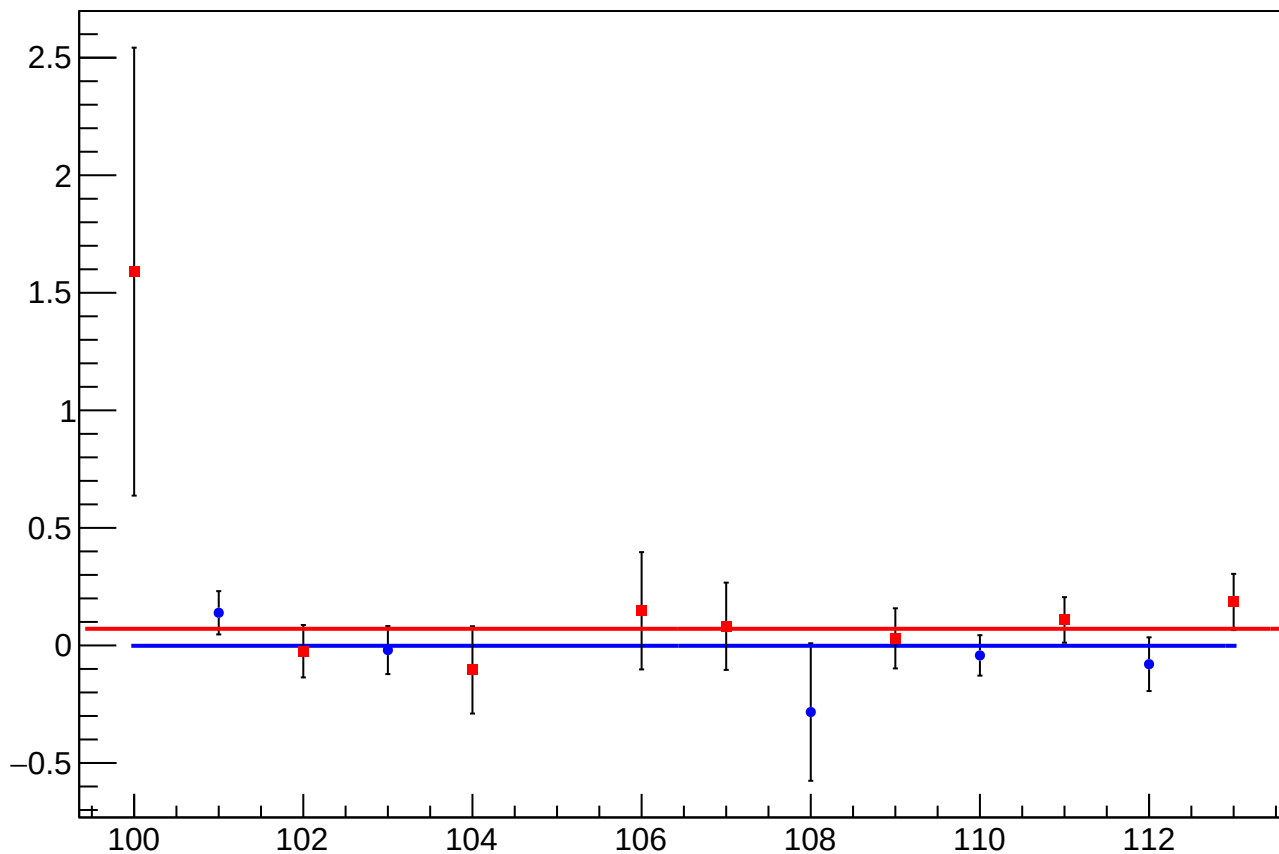
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 658517.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.048  $\chi^2$ /NDF: 4.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.071 $\pm$ 0.050  $\chi^2$ /NDF: 5.4/7

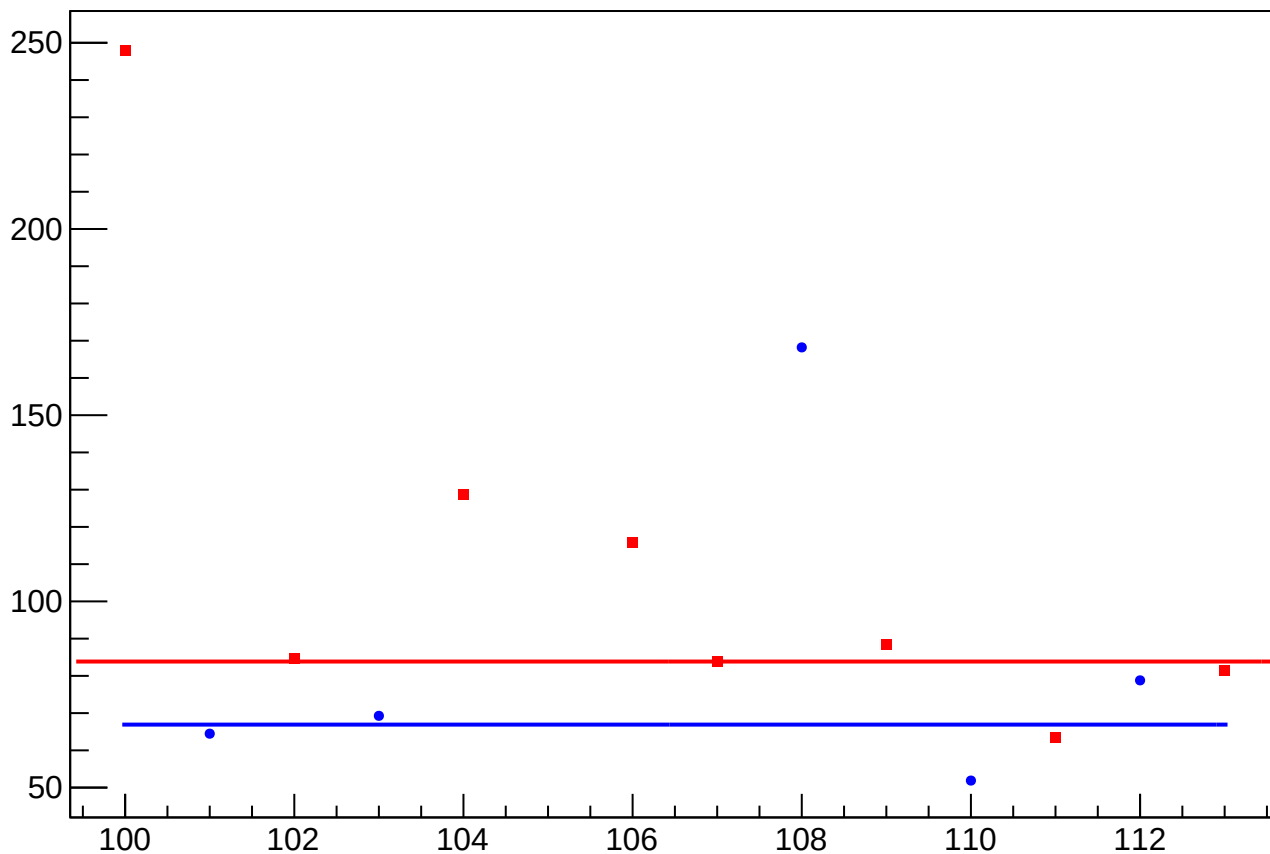
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.033 $\pm$ 0.035  $\chi^2$ /NDF: 10.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 66.913+/-0.034  $\chi^2/\text{NDF}$ : 325121.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 83.849+/-0.036  $\chi^2/\text{NDF}$ : 302154.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

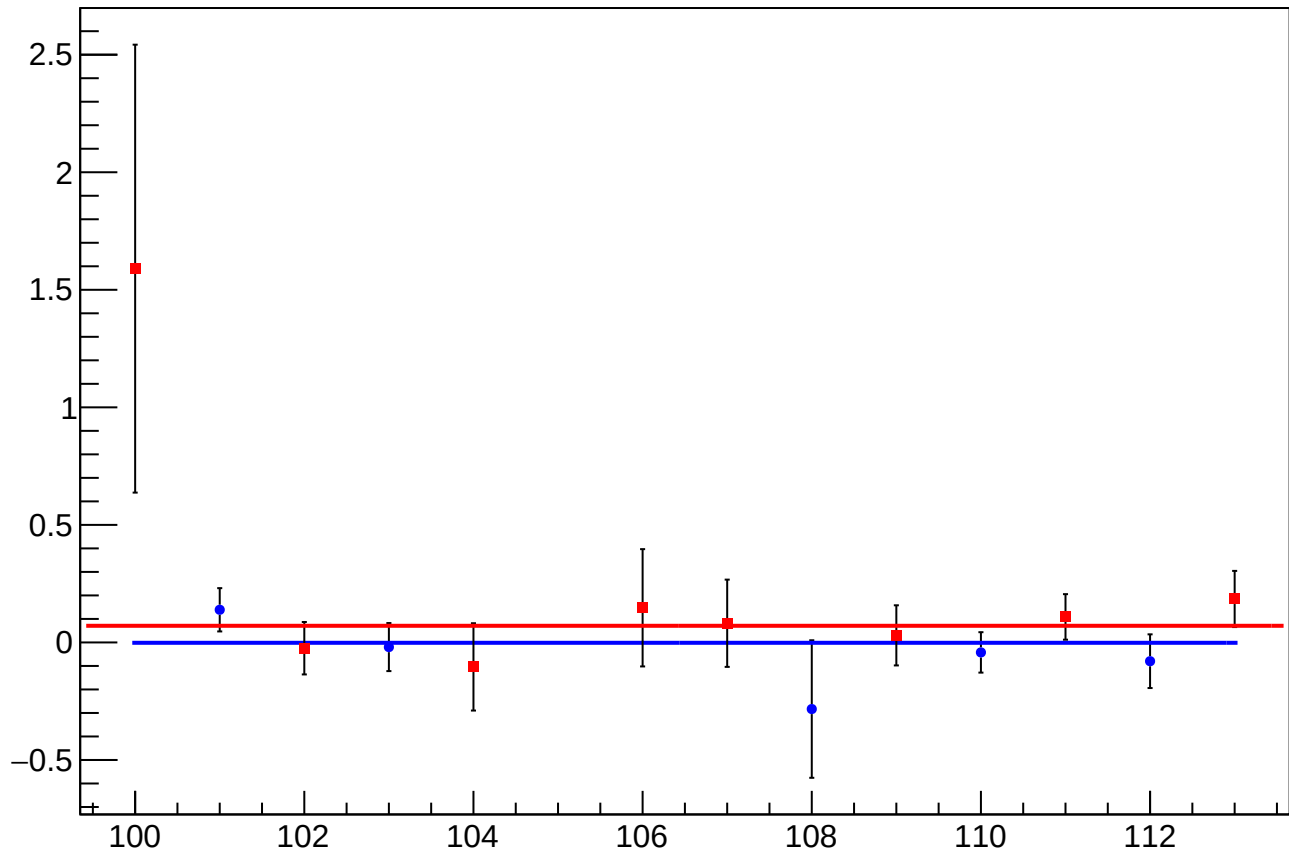
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.933+/-0.025  $\chi^2/\text{NDF}$ : 746104.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam3\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.002 \pm 0.048$   $\chi^2/\text{NDF}$ : 4.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.071 \pm 0.050$   $\chi^2/\text{NDF}$ : 5.4/7

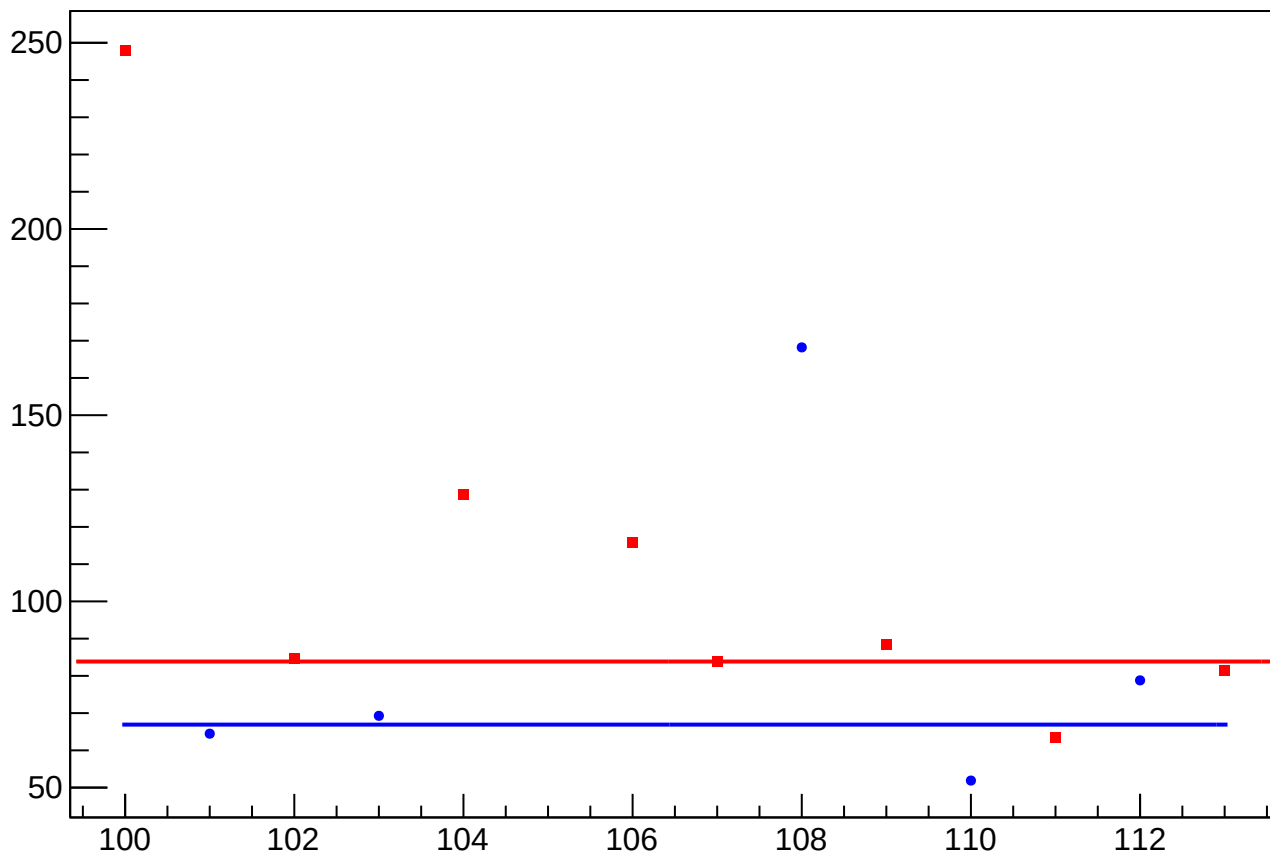
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.033 \pm 0.035$   $\chi^2/\text{NDF}$ : 10.5/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 66.913+/-0.034  $\chi^2/\text{NDF}$ : 325121.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 83.849+/-0.036  $\chi^2/\text{NDF}$ : 302154.0/7

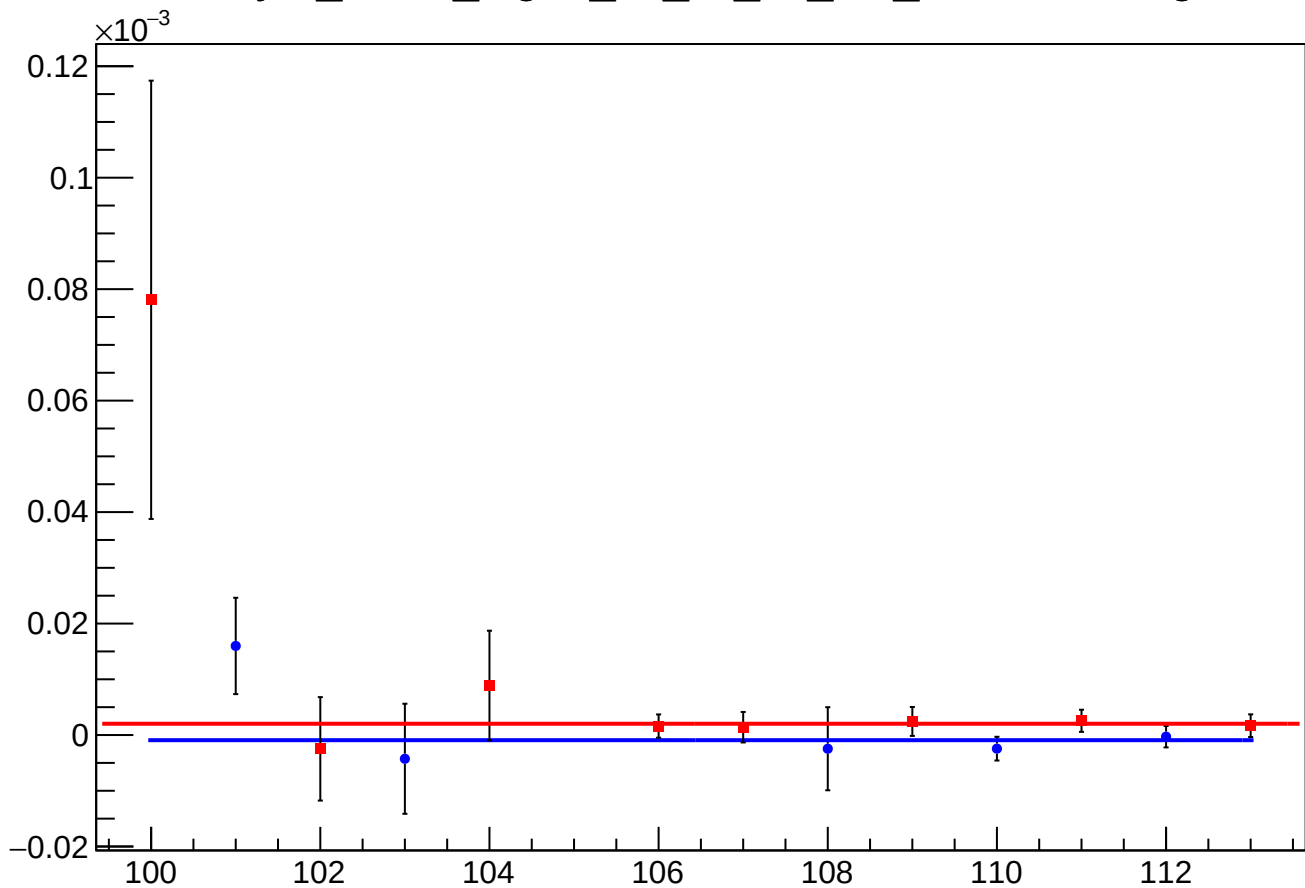
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.933+/-0.025  $\chi^2/\text{NDF}$ : 746104.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 4.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 4.7/7

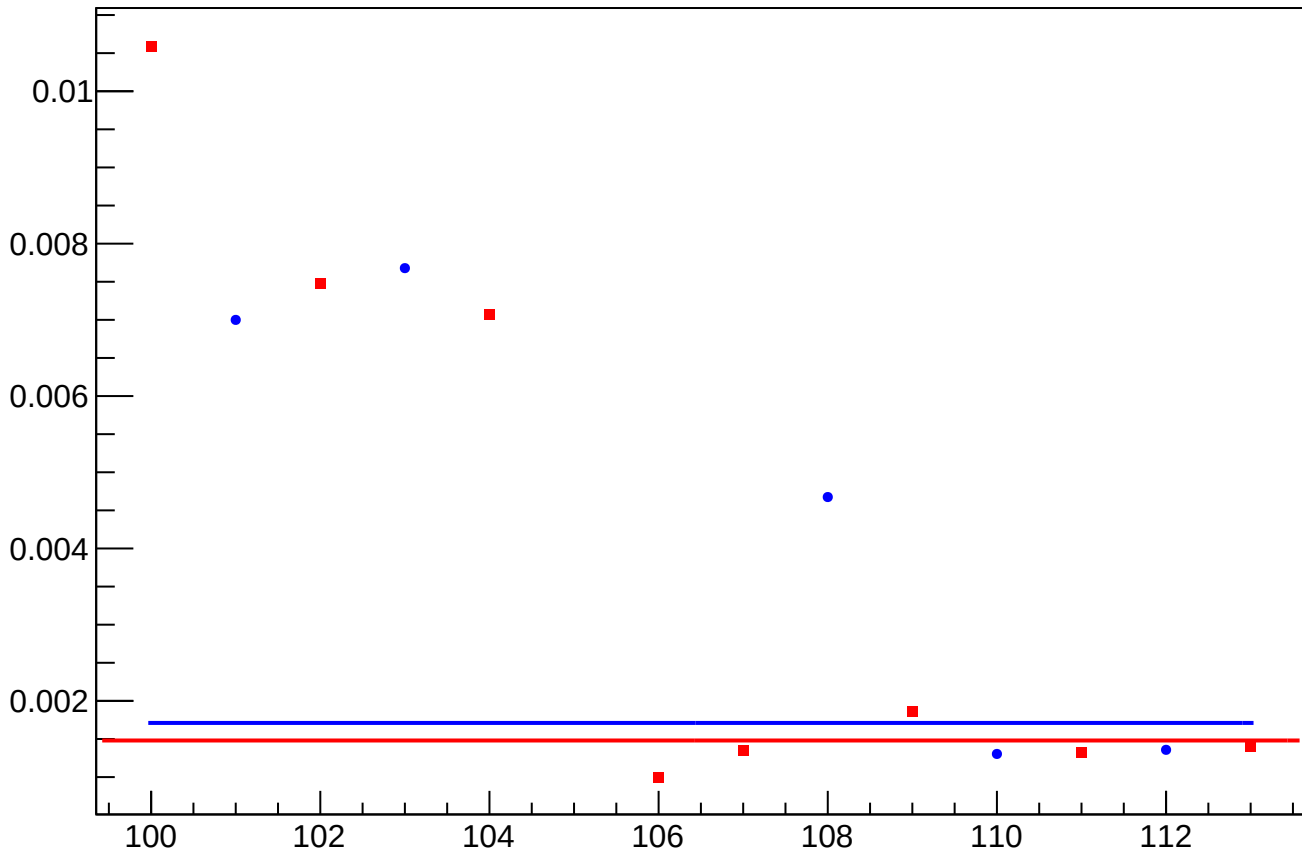
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 12.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1936768.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1757118.7/7

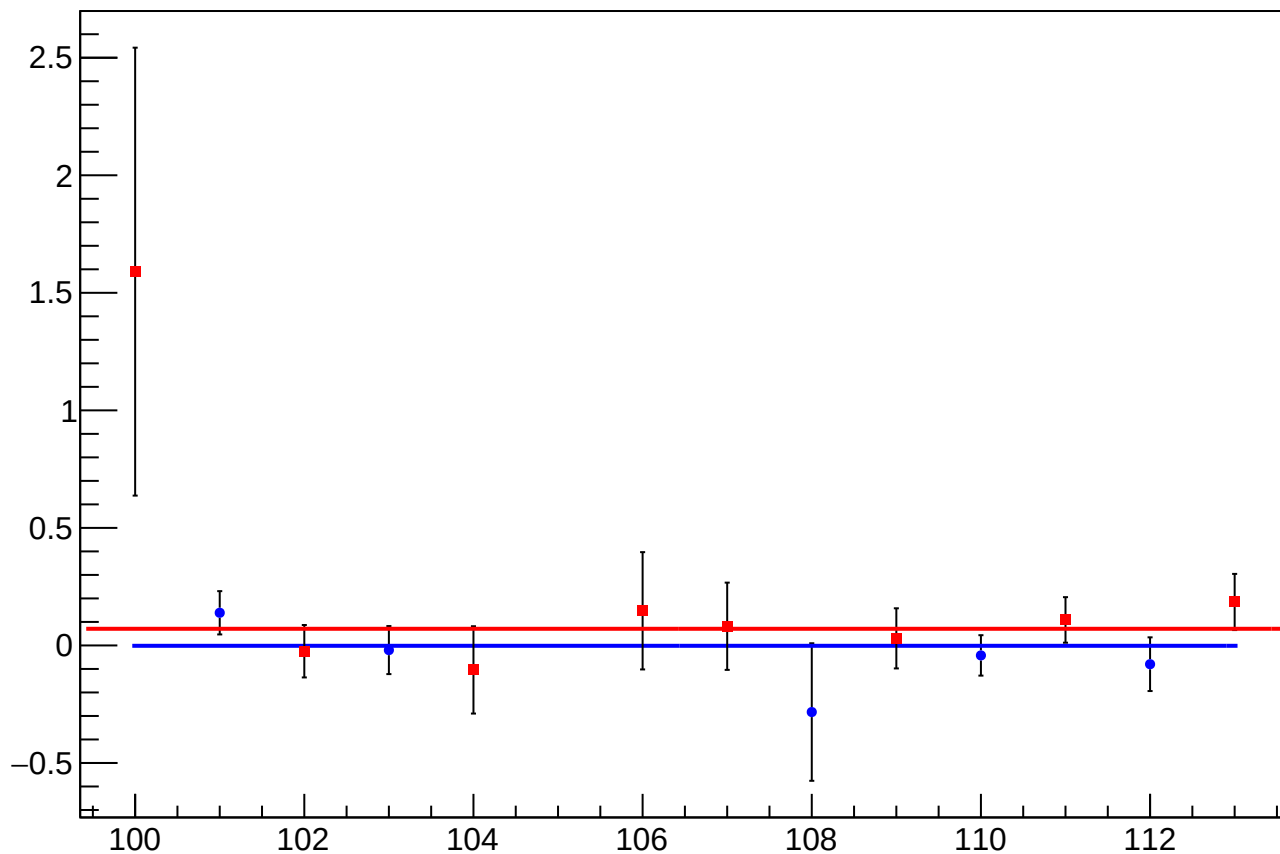
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3731209.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.002 \pm 0.048$   $\chi^2/\text{NDF}$ : 4.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.071 \pm 0.050$   $\chi^2/\text{NDF}$ : 5.4/7

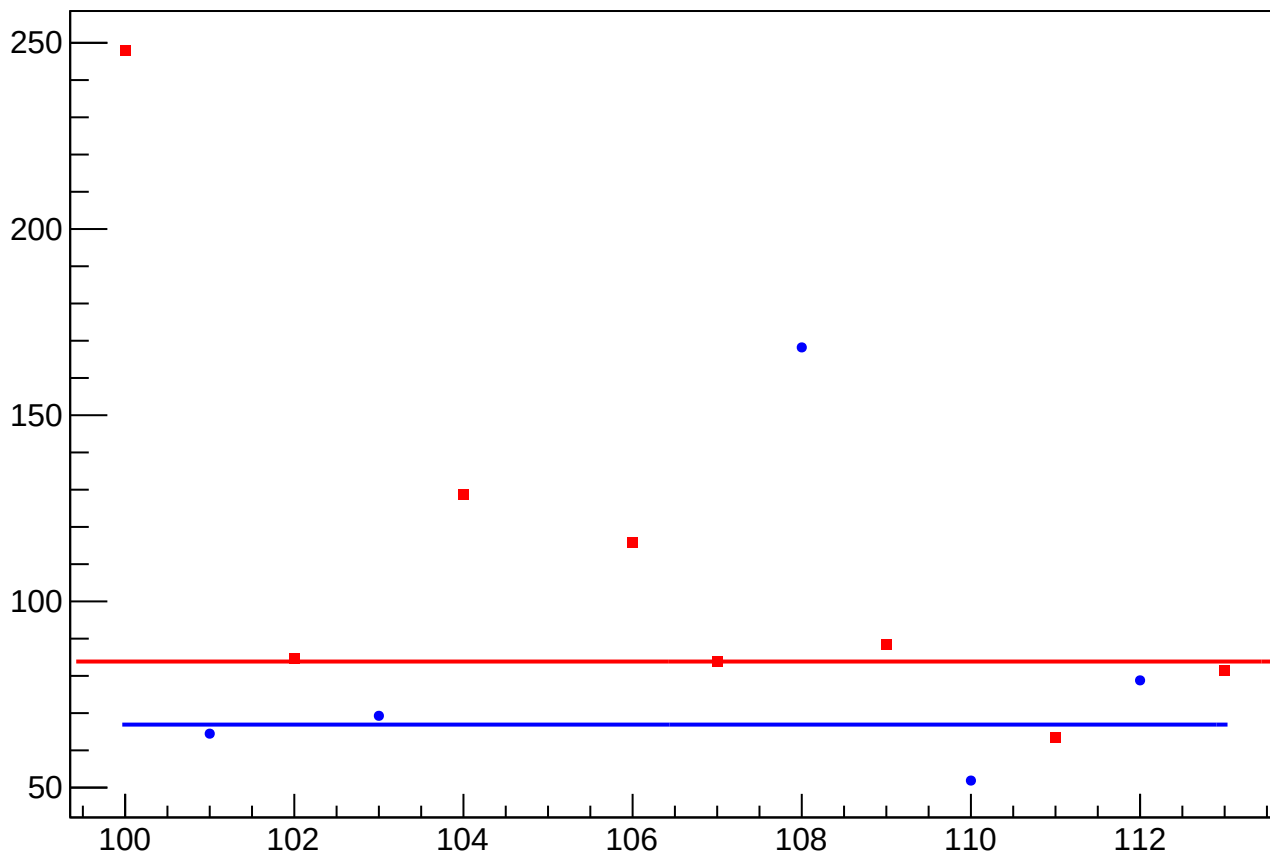
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.033 \pm 0.035$   $\chi^2/\text{NDF}$ : 10.5/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 66.917+/-0.034  $\chi^2/\text{NDF}$ : 325118.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 83.852+/-0.036  $\chi^2/\text{NDF}$ : 302173.3/7

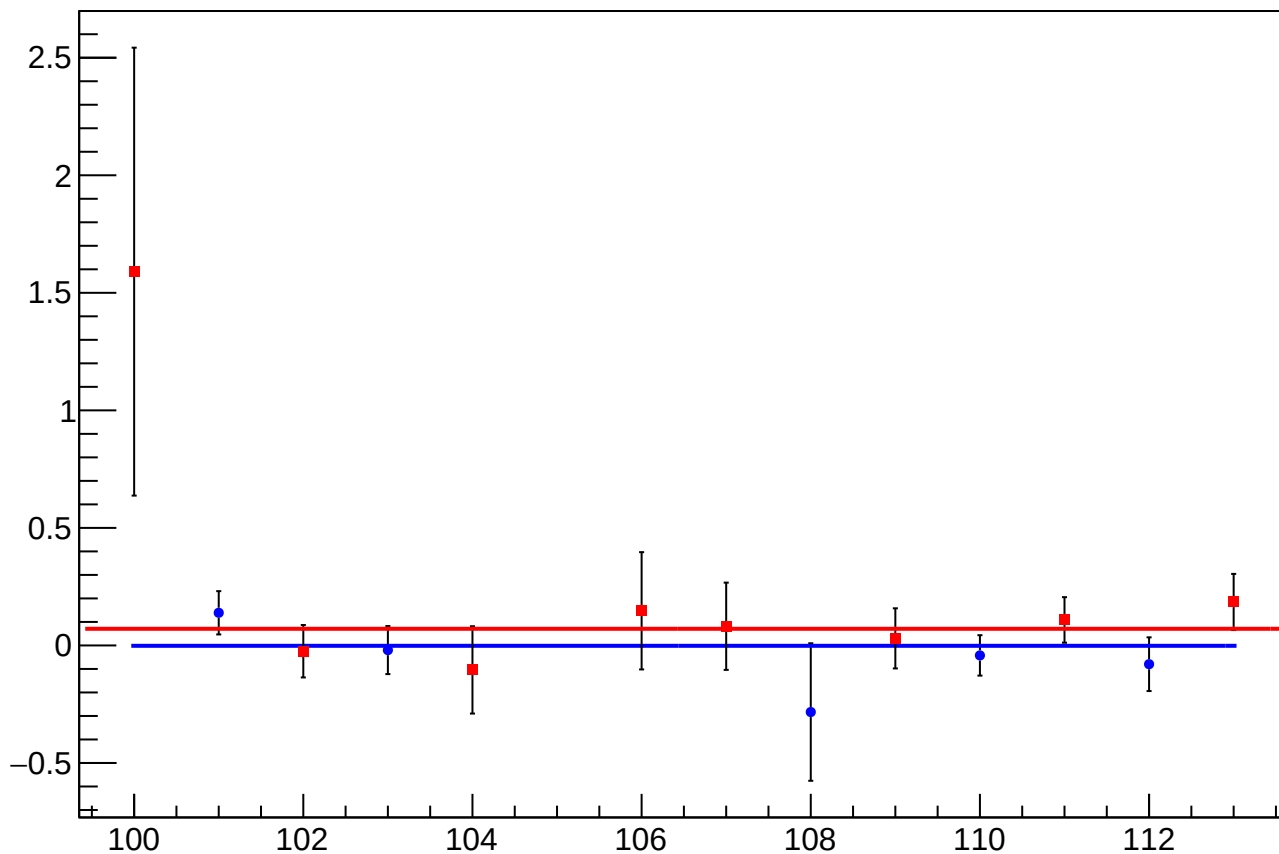
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.936+/-0.025  $\chi^2/\text{NDF}$ : 746101.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam3\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.048  $\chi^2$ /NDF: 4.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.071 $\pm$ 0.050  $\chi^2$ /NDF: 5.4/7

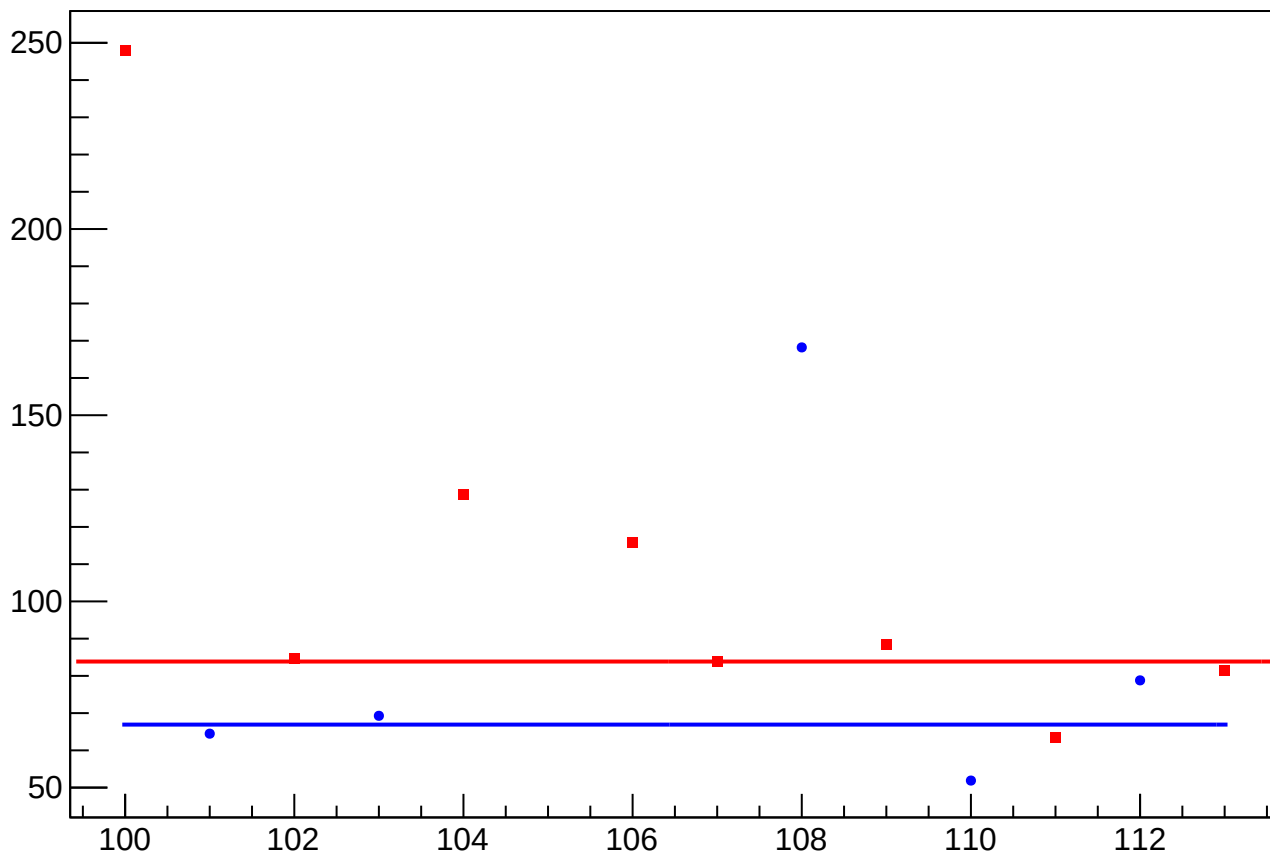
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.033 $\pm$ 0.035  $\chi^2$ /NDF: 10.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam3\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 66.917+/-0.034  $\chi^2/\text{NDF}$ : 325118.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 83.852+/-0.036  $\chi^2/\text{NDF}$ : 302173.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

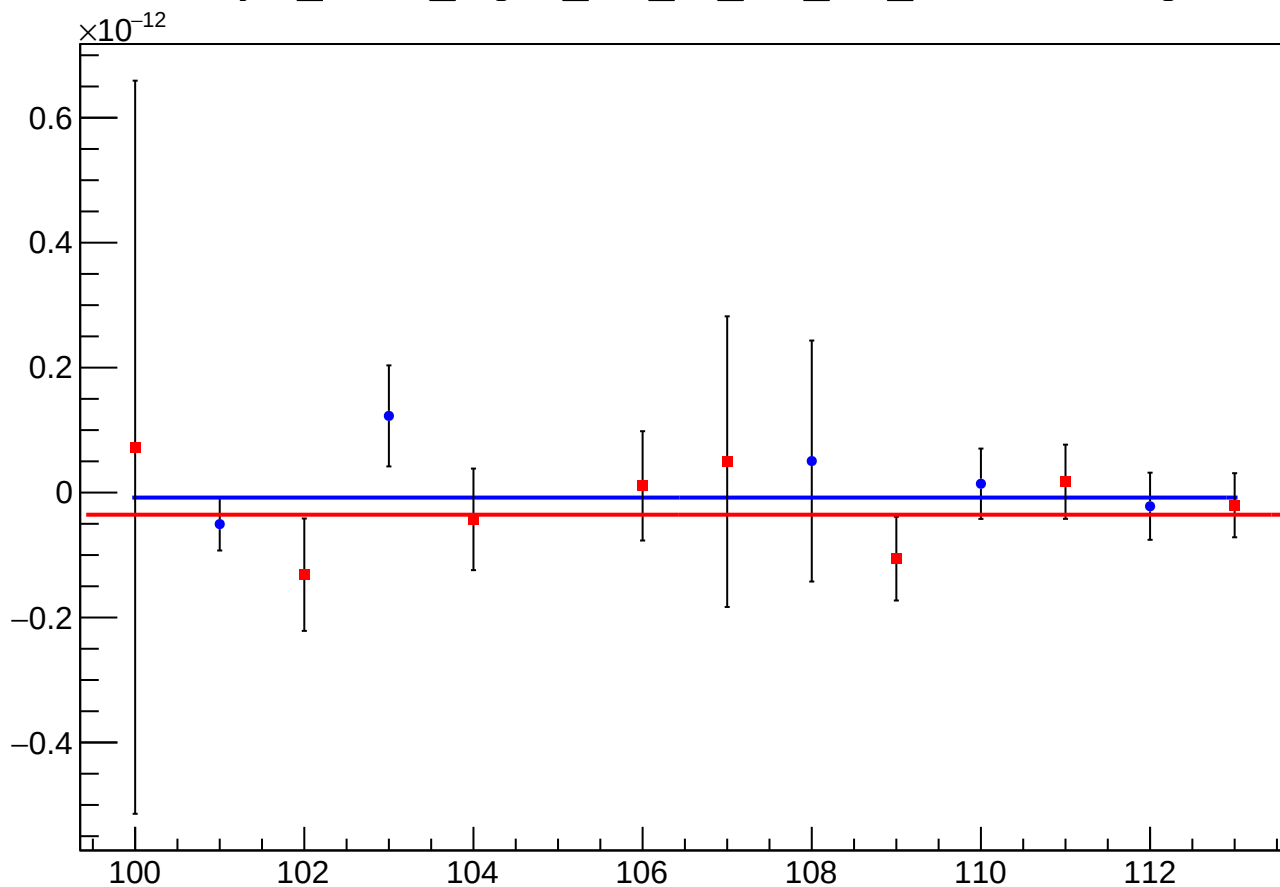
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.936+/-0.025  $\chi^2/\text{NDF}$ : 746101.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam3\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.6/7

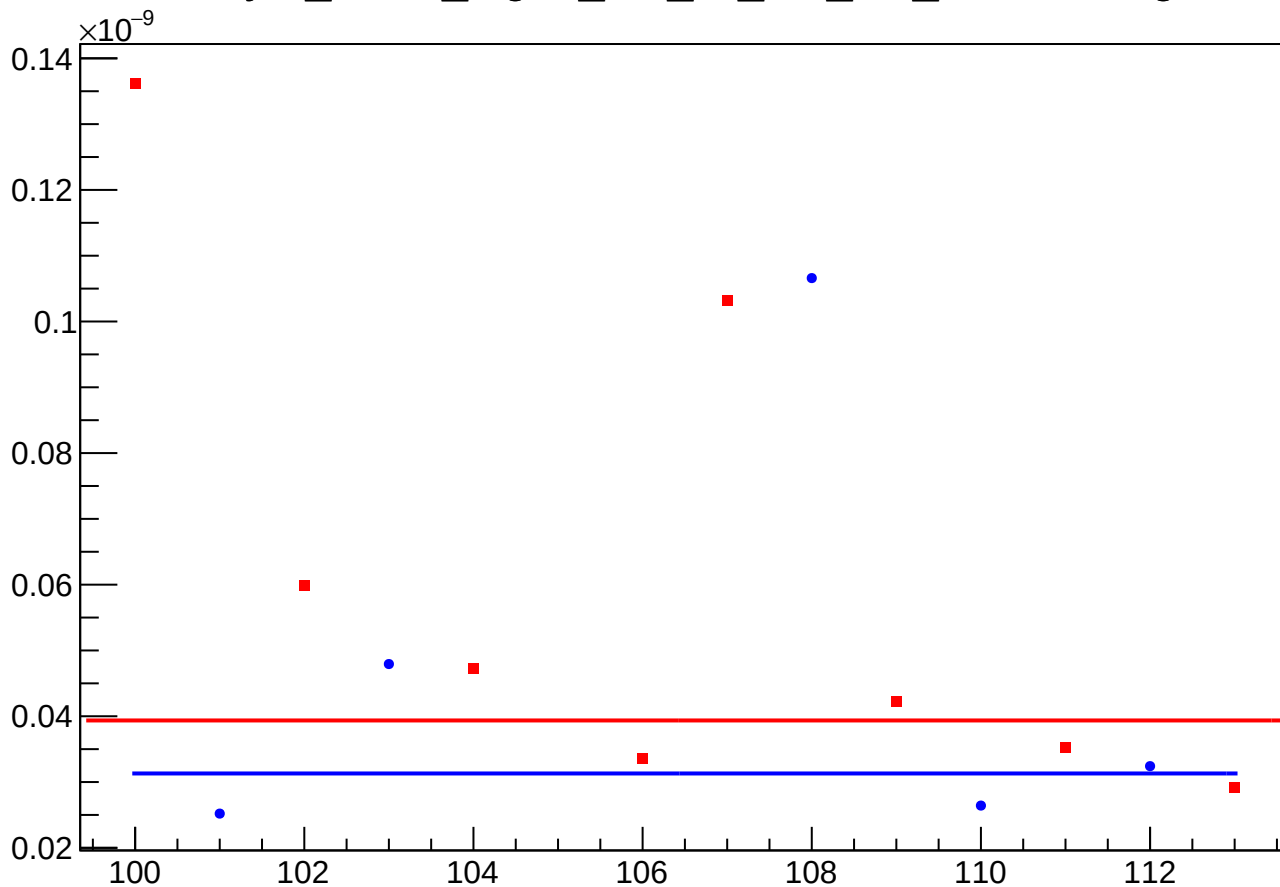
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 446952.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 429397.8/7

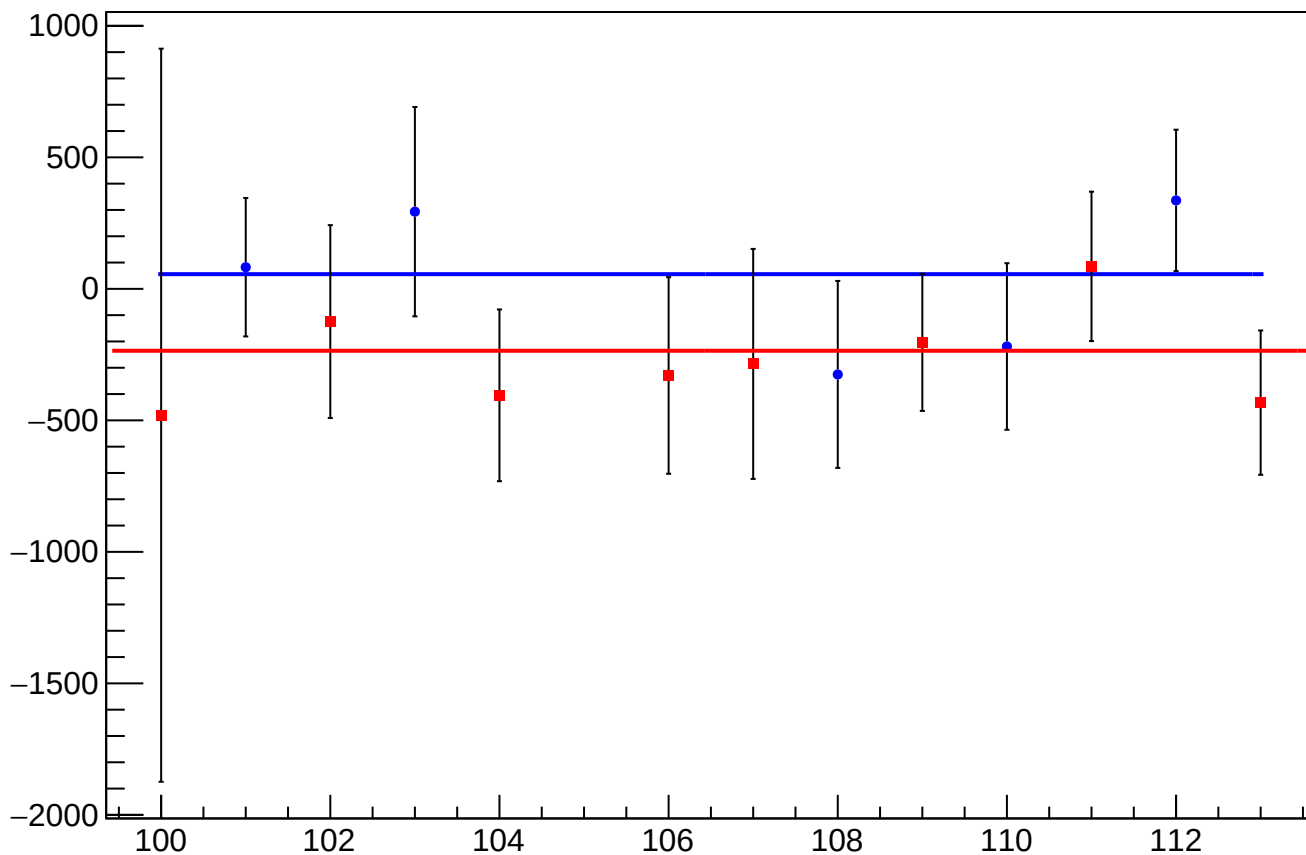
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 964374.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_mean vs Slug



Right In: 55.835 $\pm$ 138.057  $\chi^2$ /NDF: 3.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -235.324 $\pm$ 119.414  $\chi^2$ /NDF: 2.3/7

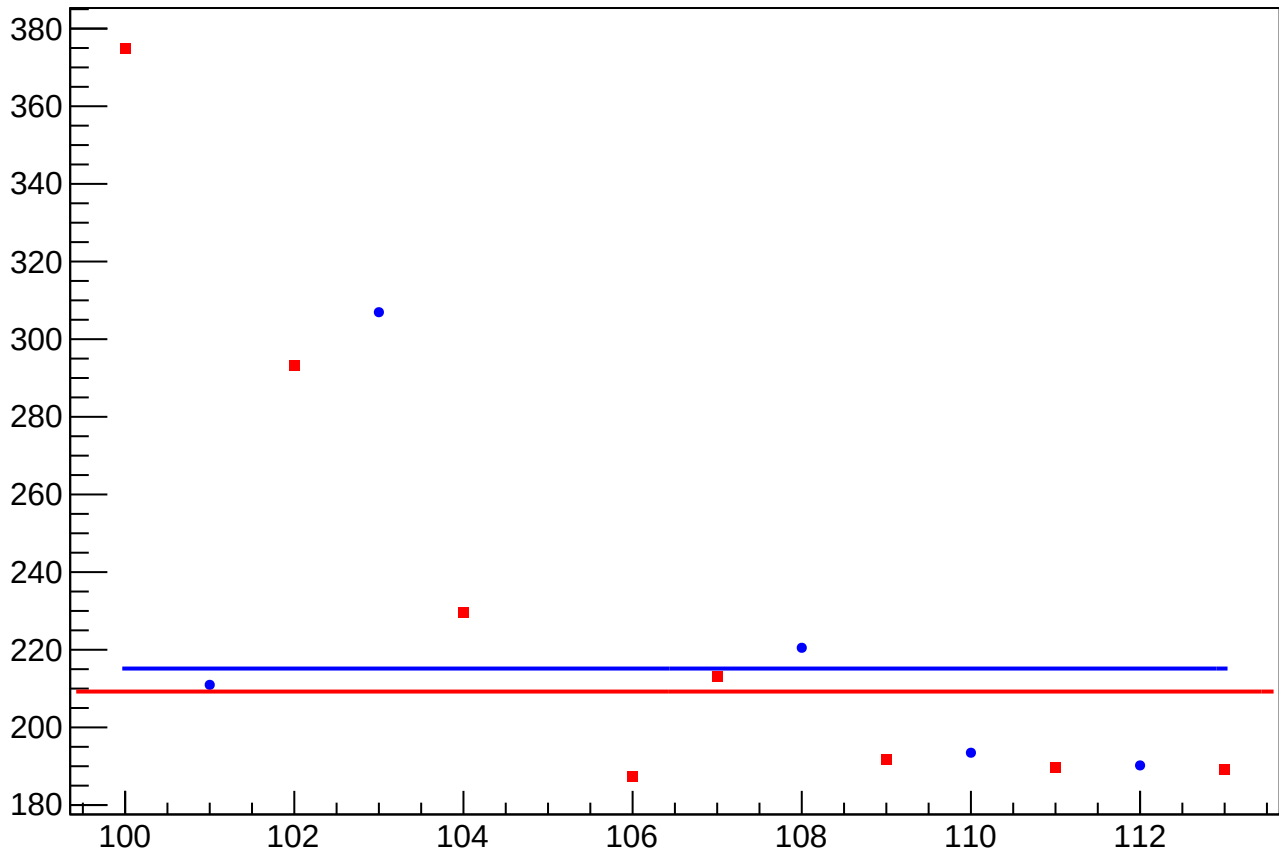
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -110.717 $\pm$ 90.316  $\chi^2$ /NDF: 8.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam4\_rms vs Slug



Right In: 215.162 $\pm$ 0.098  $\chi^2$ /NDF: 133947.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 209.235 $\pm$ 0.084  $\chi^2$ /NDF: 176941.4/7

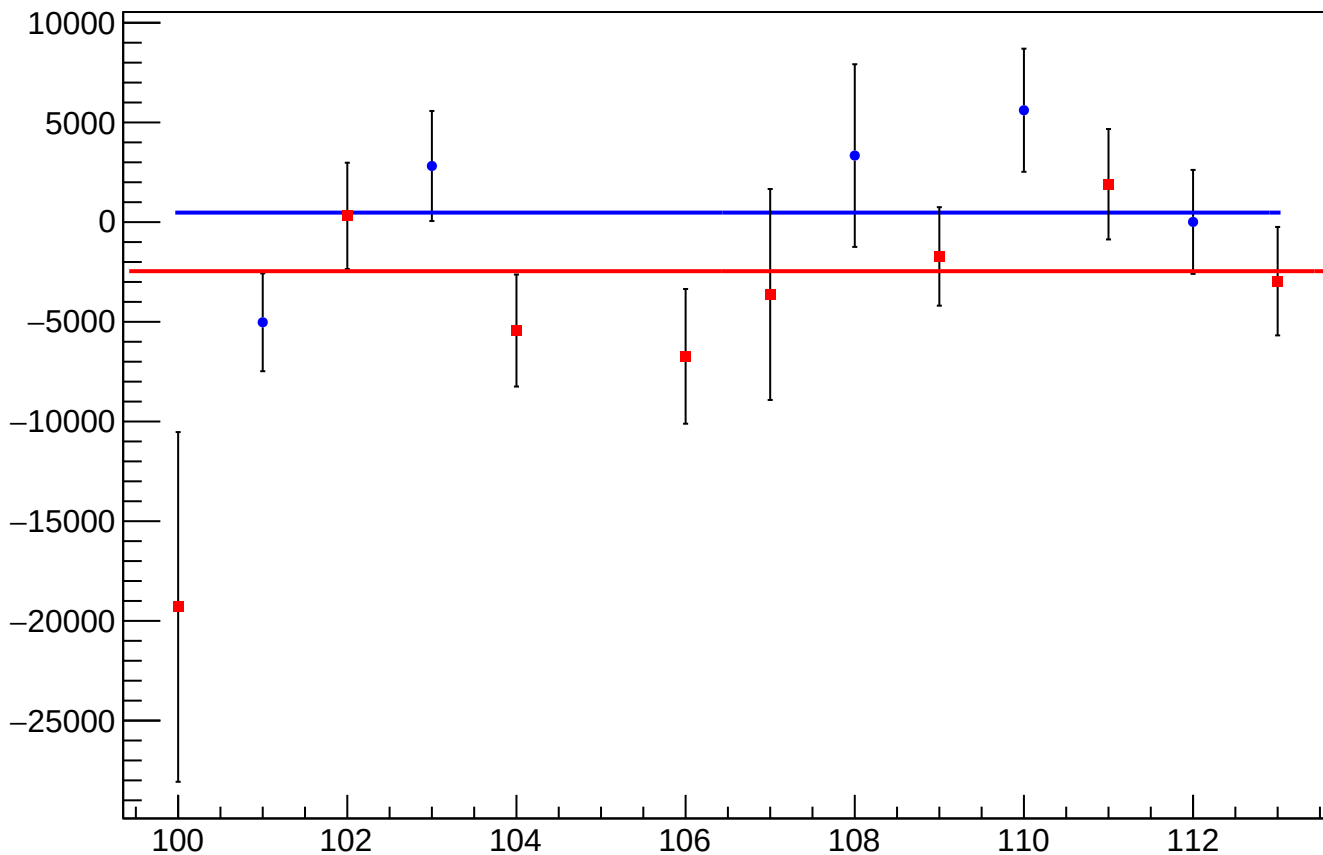
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 211.771 $\pm$ 0.064  $\chi^2$ /NDF: 312997.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_reg\_correction\_mean vs Slug



Right In: 478.280+/-1294.386  $\chi^2/\text{NDF}$ : 8.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2459.359+/-1095.581  $\chi^2/\text{NDF}$ : 10.1/7

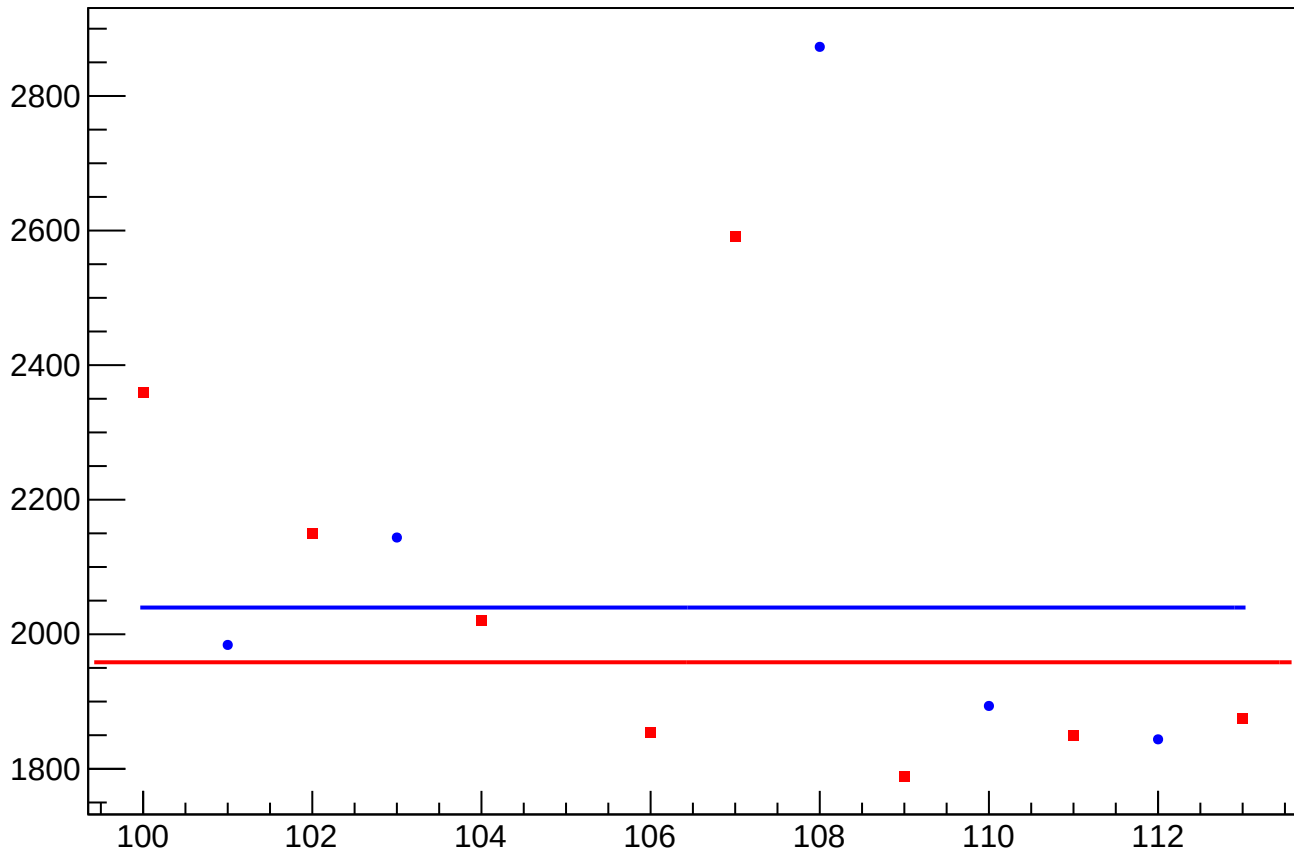
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1233.222+/-836.246  $\chi^2/\text{NDF}$ : 22.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_reg\_correction\_rms vs Slug



Right In: 2039.739 $\pm$ 0.915  $\chi^2$ /NDF: 85819.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1958.397 $\pm$ 0.775  $\chi^2$ /NDF: 60452.1/7

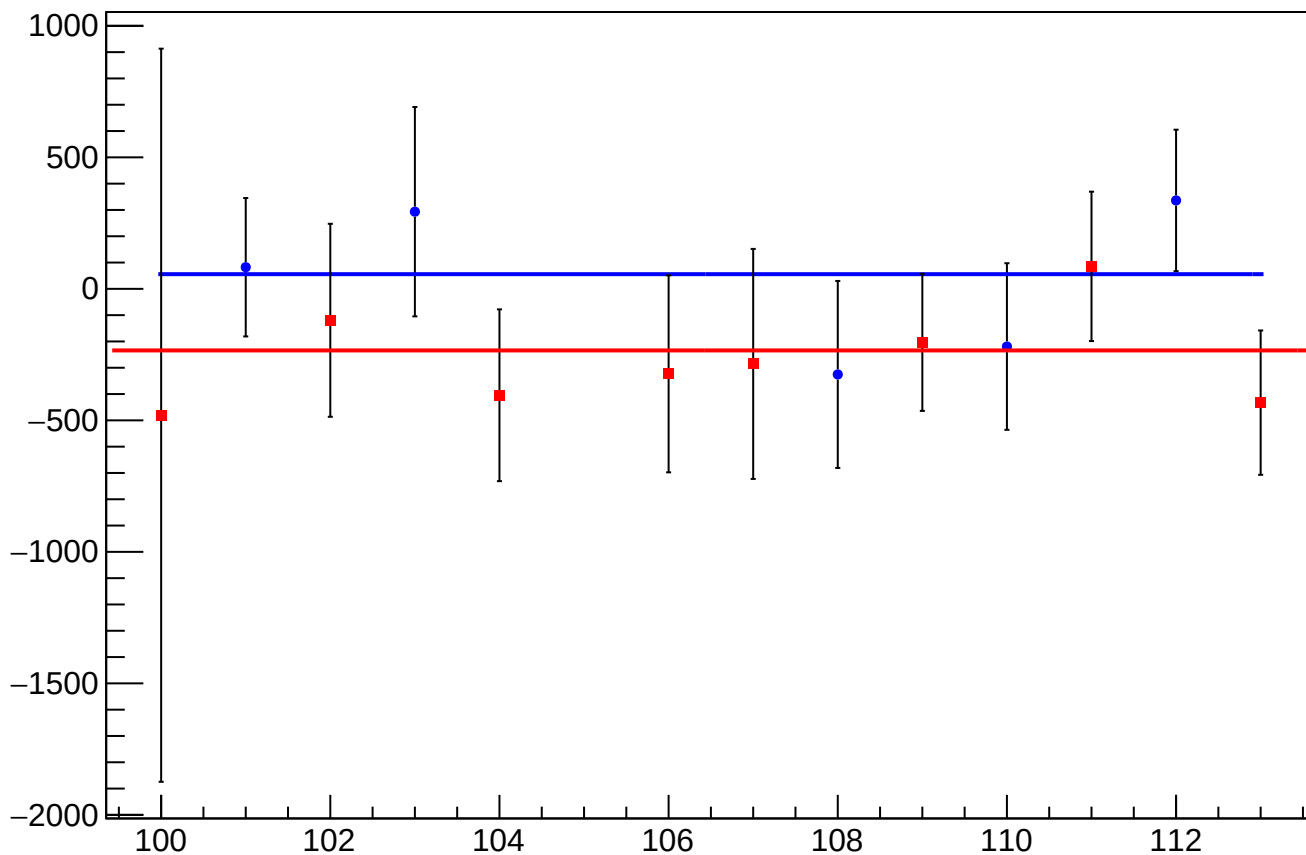
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1992.348 $\pm$ 0.591  $\chi^2$ /NDF: 150873.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam4\_mean vs Slug



Right In: 55.794 $\pm$ 138.057  $\chi^2$ /NDF: 3.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -234.125 $\pm$ 119.449  $\chi^2$ /NDF: 2.3/7

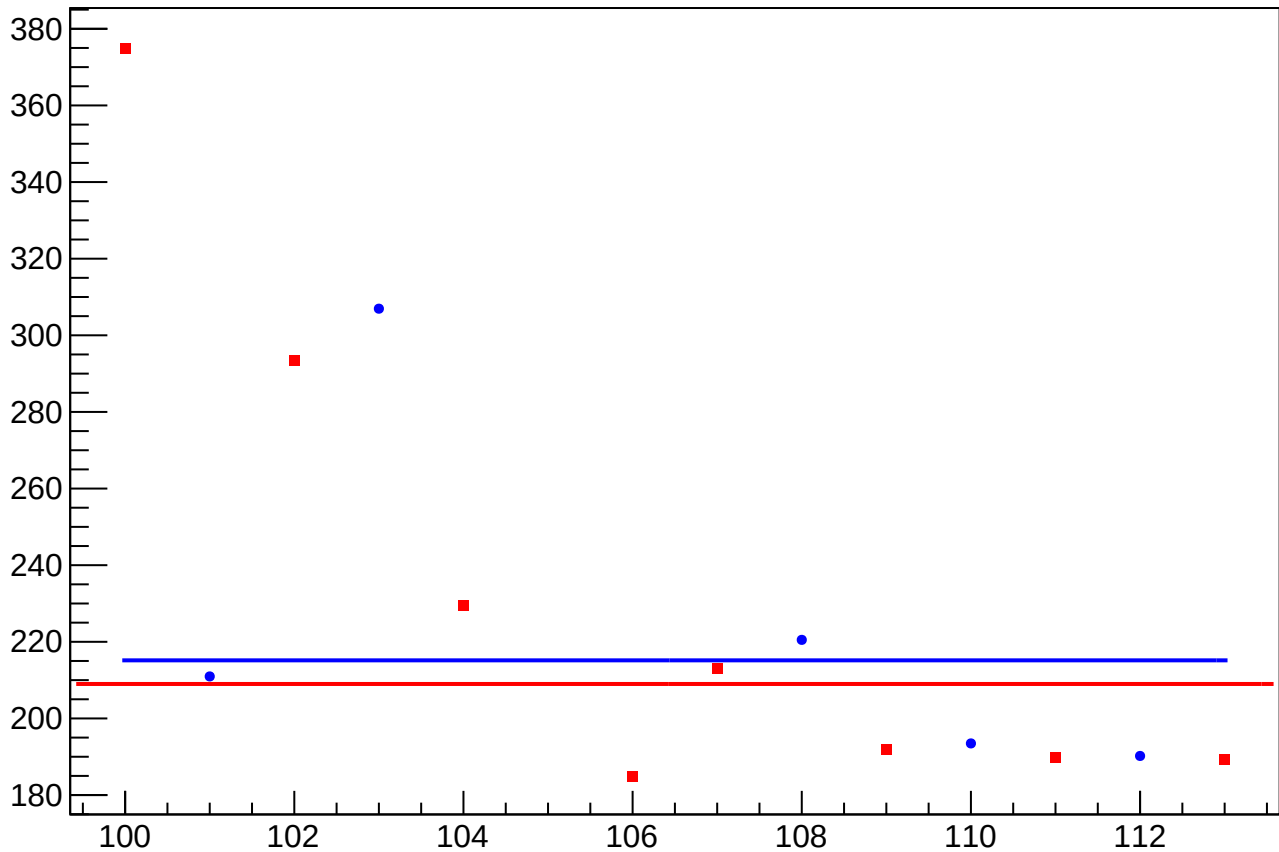
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -110.007 $\pm$ 90.331  $\chi^2$ /NDF: 8.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam4\_rms vs Slug



Right In: 215.162 $\pm$ 0.098  $\chi^2$ /NDF: 133950.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 208.995 $\pm$ 0.084  $\chi^2$ /NDF: 178793.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

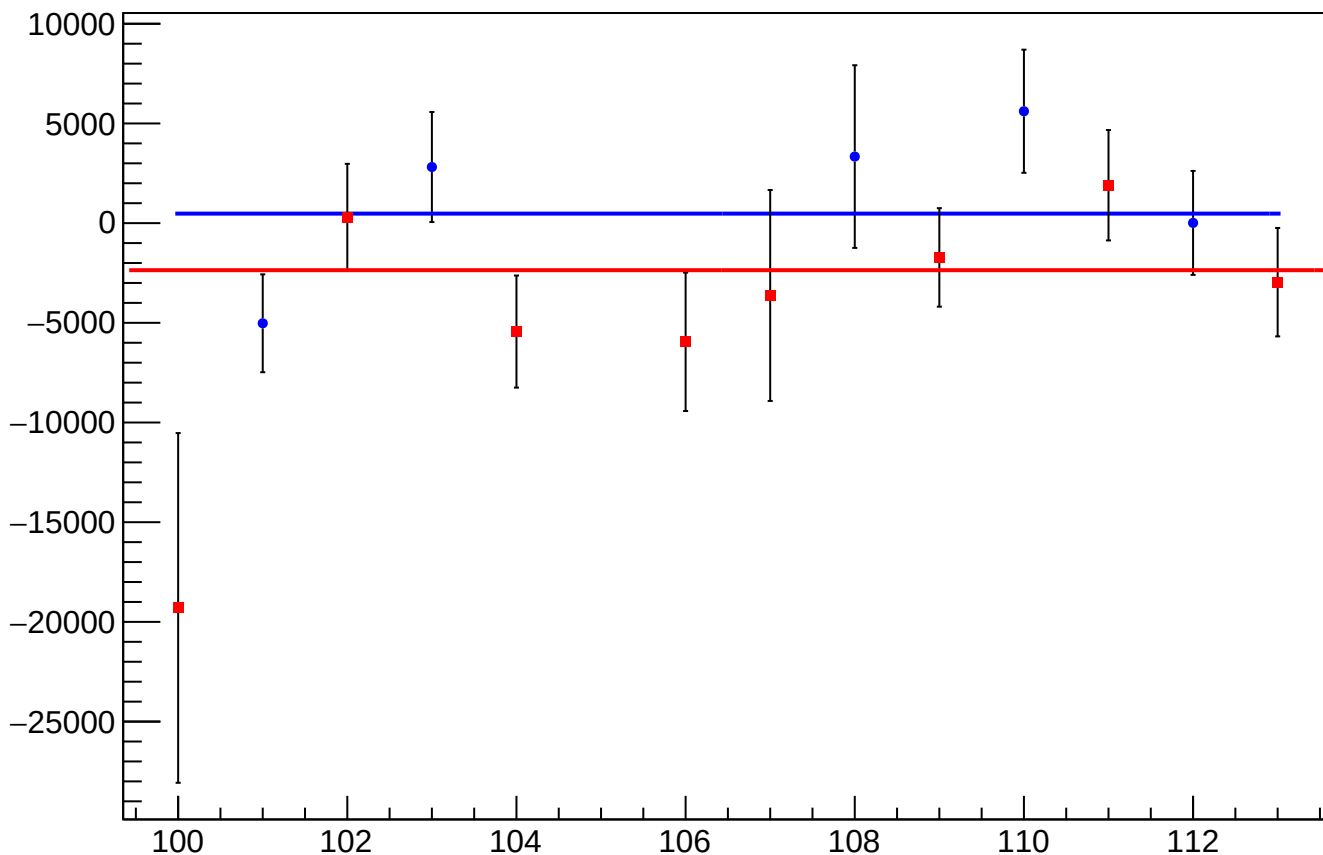
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 211.635 $\pm$ 0.064  $\chi^2$ /NDF: 315025.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam4\_cor\_correction\_mean vs Slug



Right In:  $477.972 \pm 1294.408$   $\chi^2/\text{NDF}$ : 8.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2359.682 \pm 1098.697$   $\chi^2/\text{NDF}$ : 9.5/7

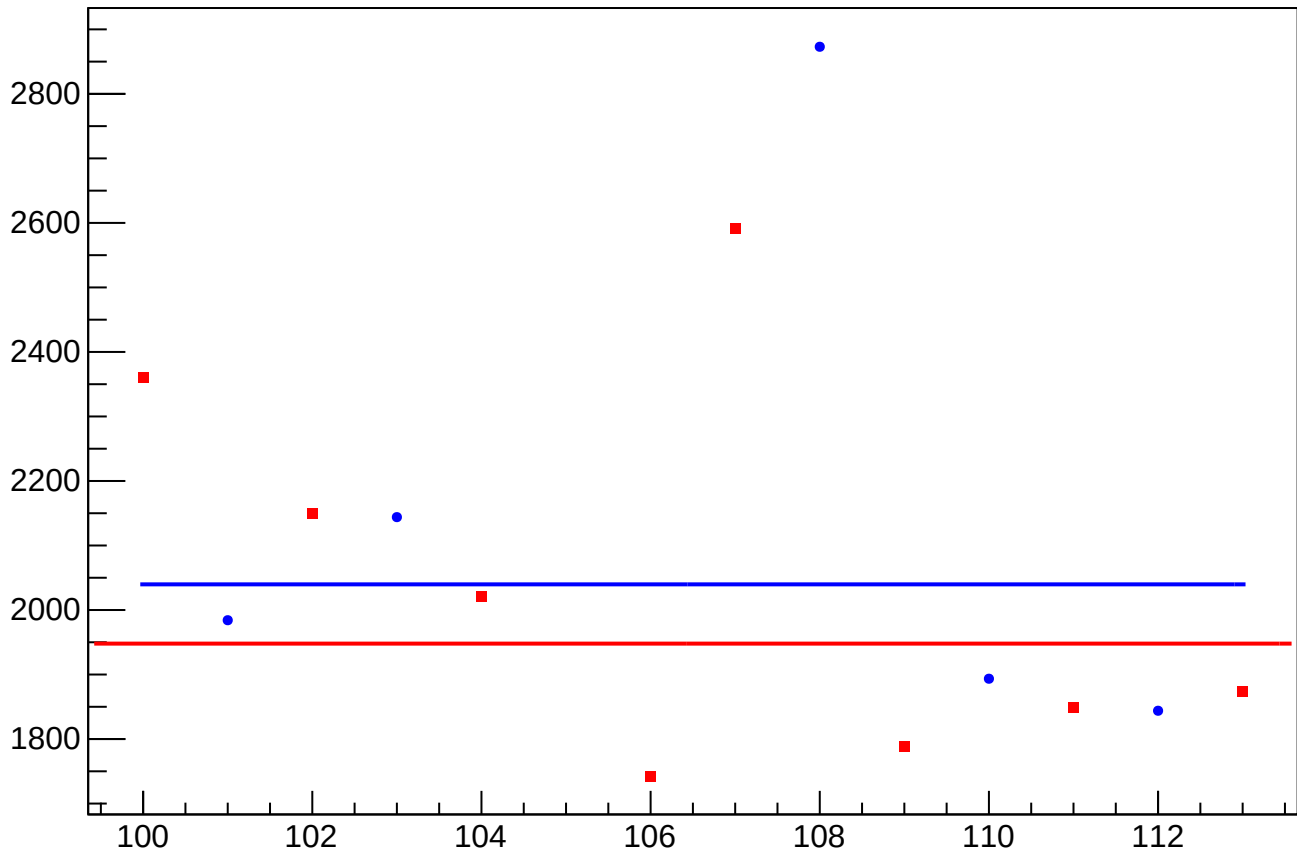
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1171.380 \pm 837.635$   $\chi^2/\text{NDF}$ : 21.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_cor\_correction\_rms vs Slug



Right In: 2039.772 $\pm$ 0.915  $\chi^2$ /NDF: 85827.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1947.916 $\pm$ 0.777  $\chi^2$ /NDF: 66200.6/7

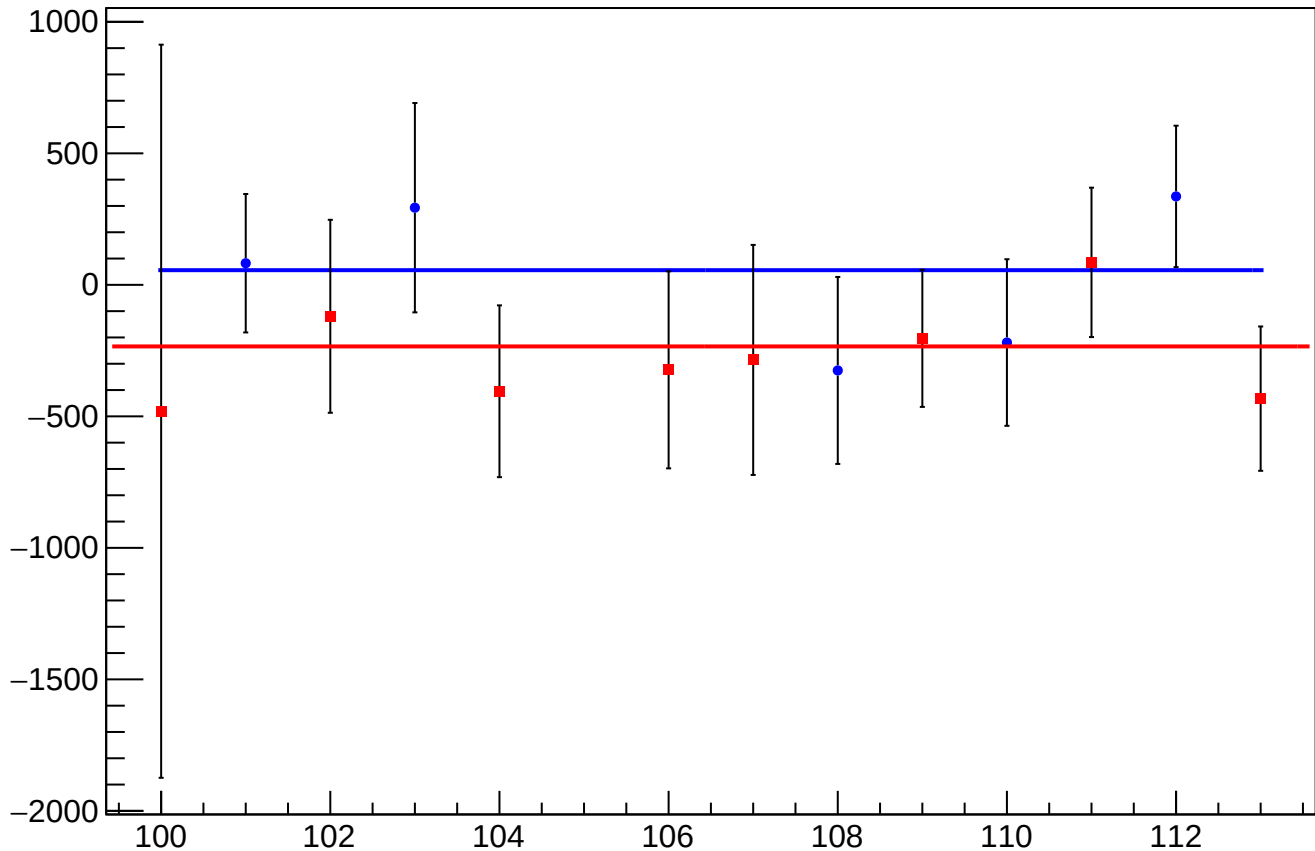
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1986.382 $\pm$ 0.592  $\chi^2$ /NDF: 157882.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam4\_mean vs Slug



Right In: 55.794 $\pm$ 138.057  $\chi^2$ /NDF: 3.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -234.125 $\pm$ 119.449  $\chi^2$ /NDF: 2.3/7

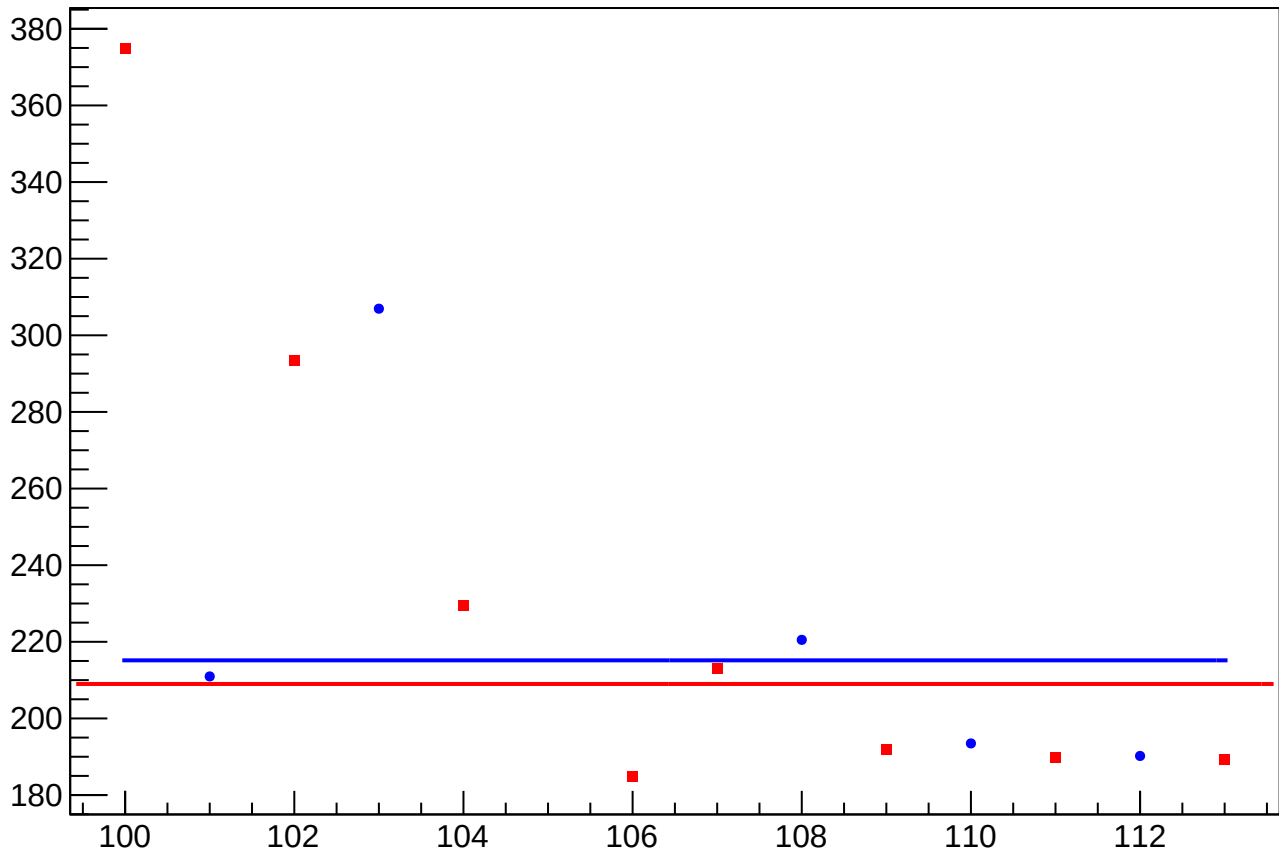
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -110.007 $\pm$ 90.331  $\chi^2$ /NDF: 8.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam4\_rms vs Slug



Right In: 215.162 $\pm$ 0.098  $\chi^2$ /NDF: 133950.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 208.995 $\pm$ 0.084  $\chi^2$ /NDF: 178793.0/7

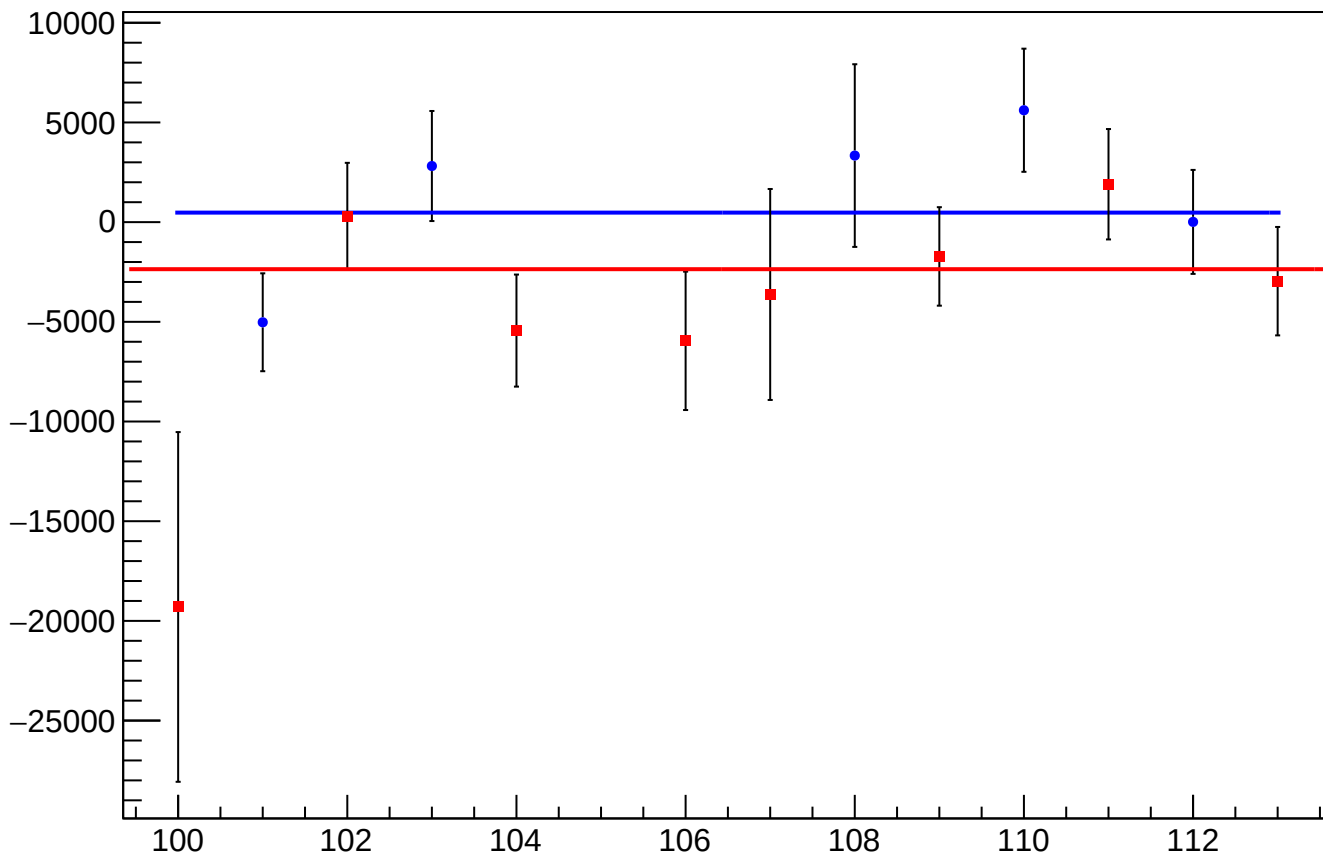
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 211.635 $\pm$ 0.064  $\chi^2$ /NDF: 315025.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_eigen\_cor\_correction\_mean vs Slug



Right In: 477.972 $\pm$ 1294.408  $\chi^2$ /NDF: 8.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2359.682 $\pm$ 1098.697  $\chi^2$ /NDF: 9.5/7

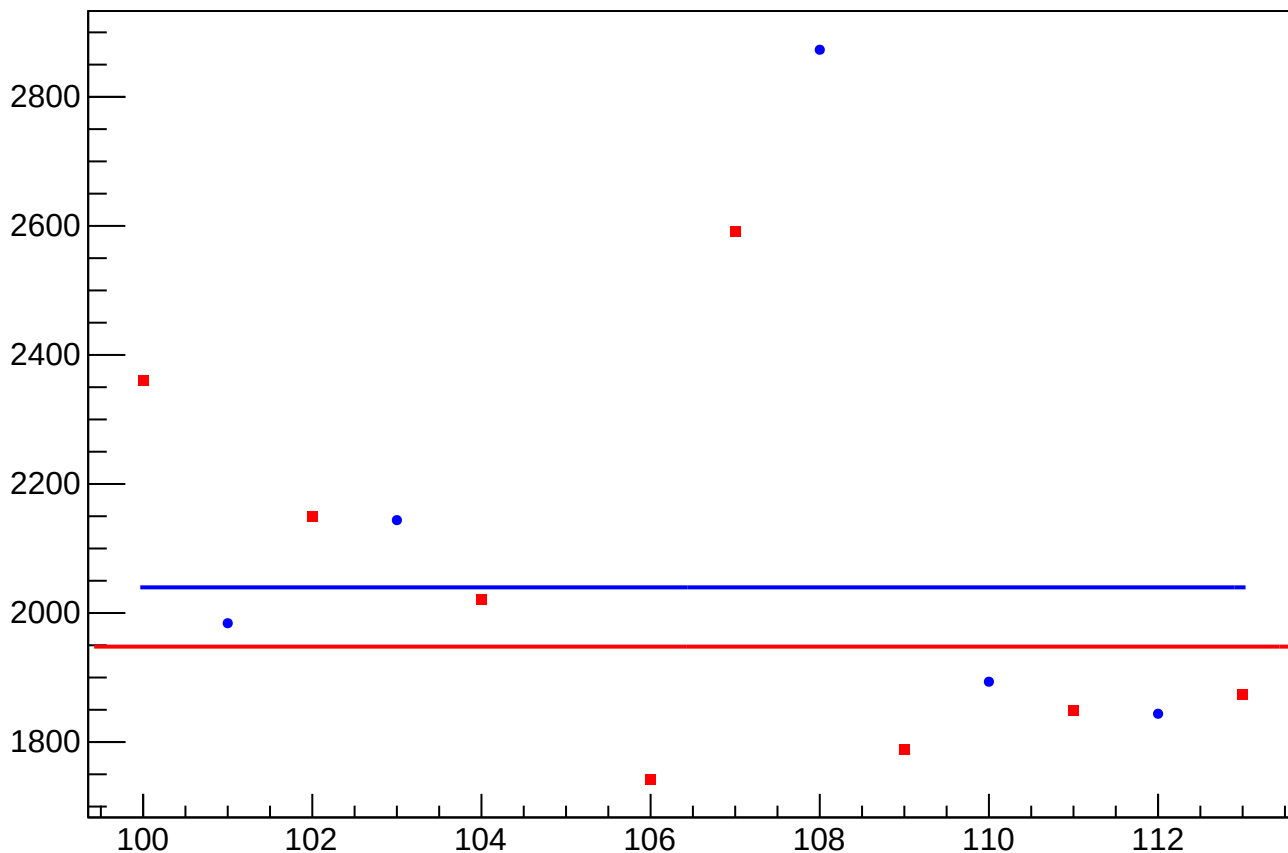
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1171.380 $\pm$ 837.635  $\chi^2$ /NDF: 21.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_eigen\_cor\_correction\_rms vs Slug



Right In: 2039.772 $\pm$ 0.915  $\chi^2$ /NDF: 85827.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1947.916 $\pm$ 0.777  $\chi^2$ /NDF: 66200.6/7

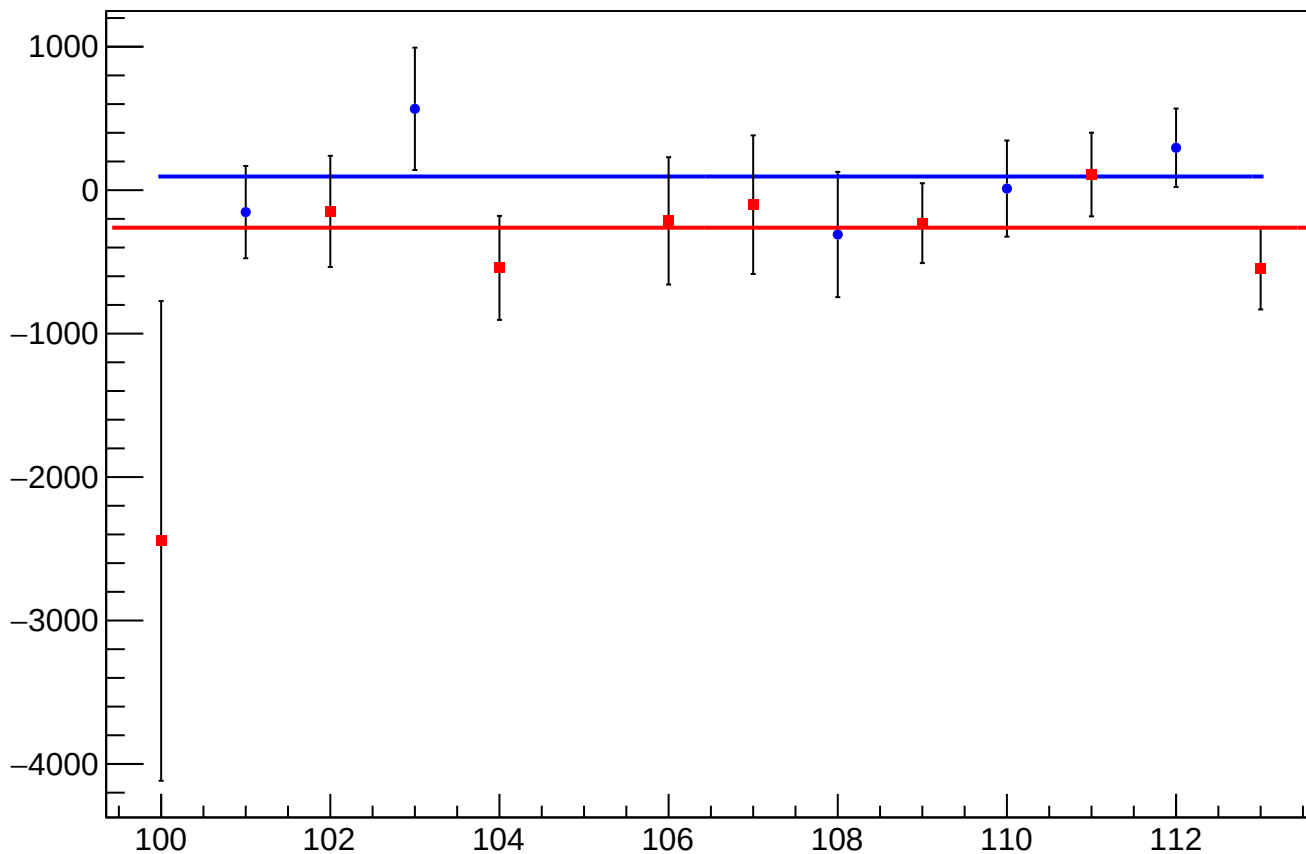
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1986.382 $\pm$ 0.592  $\chi^2$ /NDF: 157882.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam4\_mean vs Slug



Right In: 95.384+/-153.056  $\chi^2/\text{NDF}$ : 3.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -261.496+/-127.982  $\chi^2/\text{NDF}$ : 5.2/7

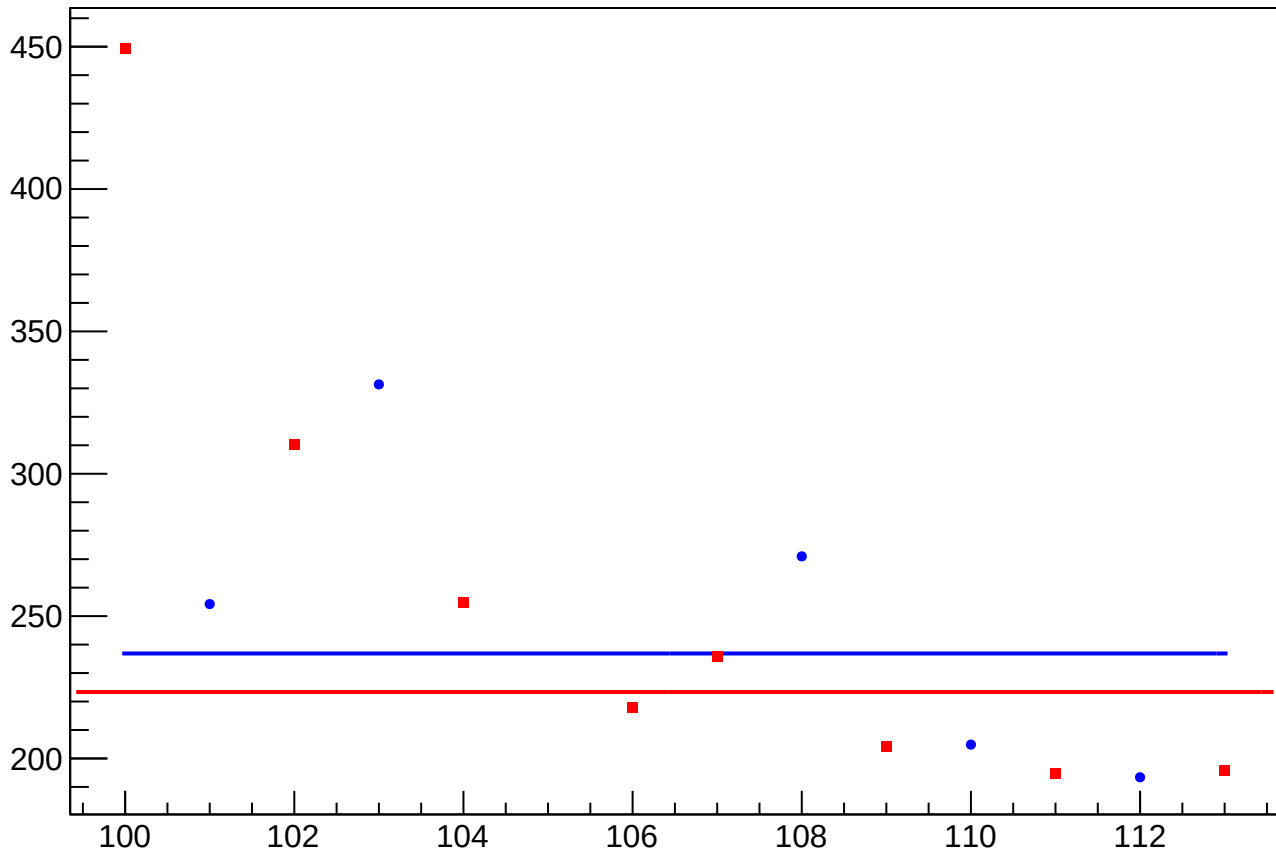
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -114.645+/-98.181  $\chi^2/\text{NDF}$ : 11.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam4\_rms vs Slug



Right In: 236.876 $\pm$ 0.108  $\chi^2$ /NDF: 185051.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 223.341 $\pm$ 0.090  $\chi^2$ /NDF: 201424.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

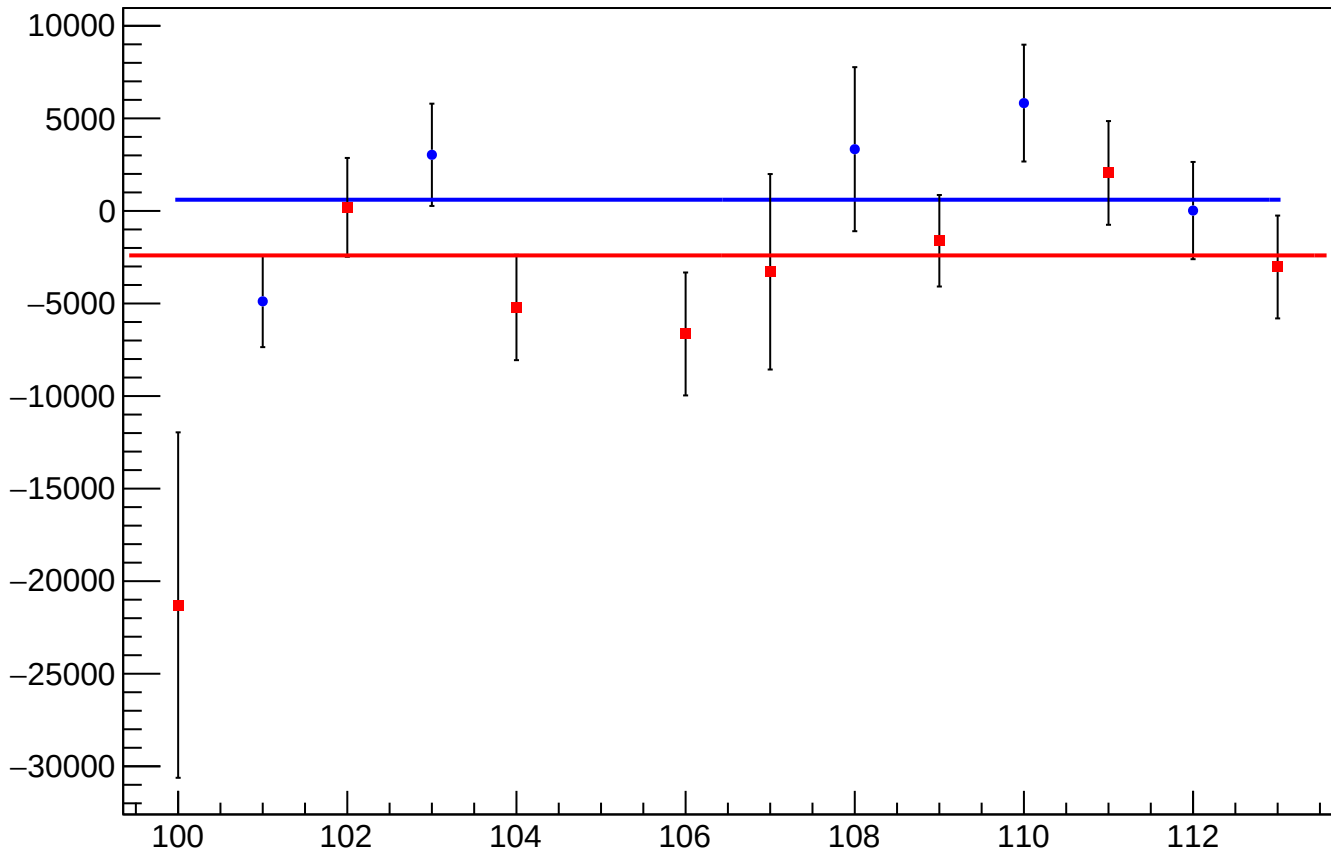
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 228.910 $\pm$ 0.069  $\chi^2$ /NDF: 395681.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam4\_dit\_correction\_mean vs Slug



Right In: 605.670+/-1301.165  $\chi^2/\text{NDF}$ : 8.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2402.644+/-1102.532  $\chi^2/\text{NDF}$ : 10.4/7

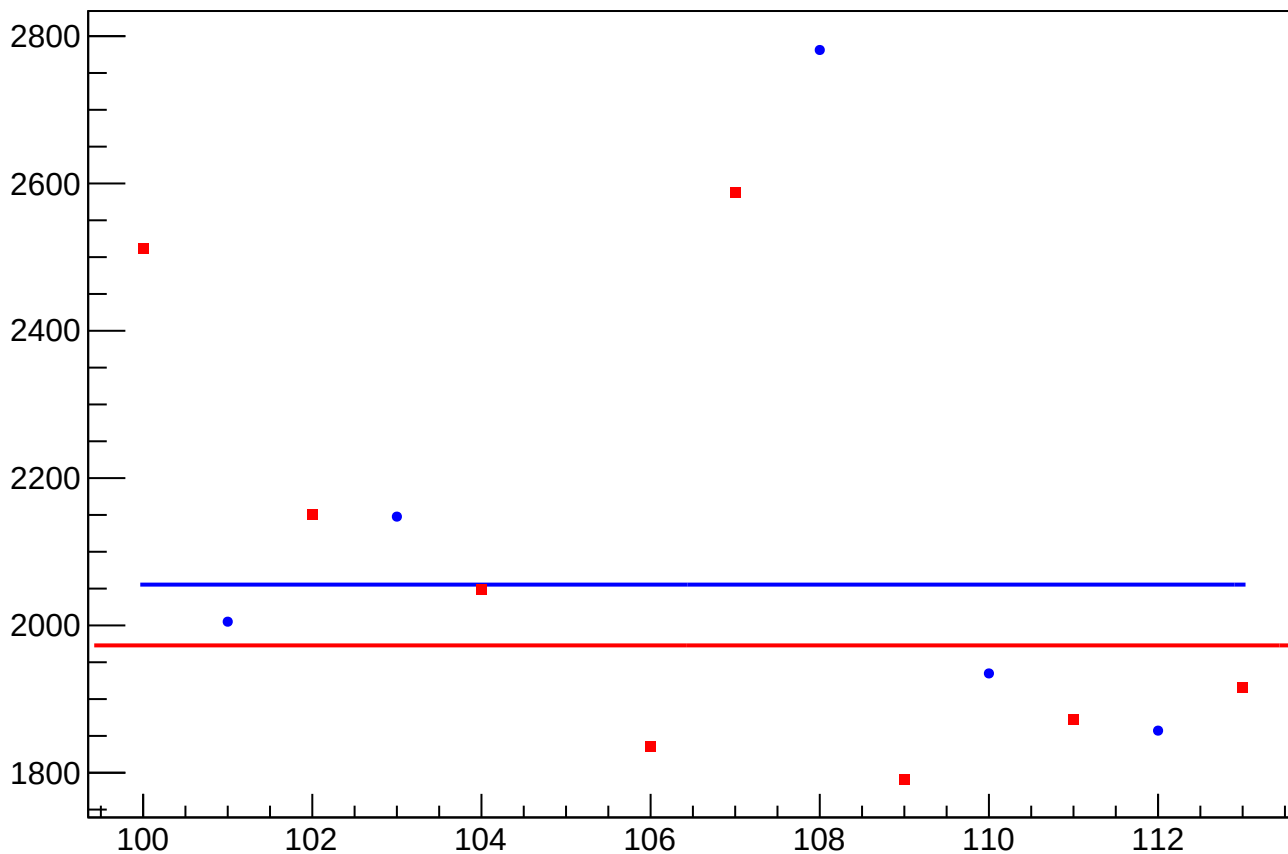
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1145.397+/-841.165  $\chi^2/\text{NDF}$ : 22.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_dit\_correction\_rms vs Slug



Right In: 2055.407 $\pm$ 0.920  $\chi^2$ /NDF: 71038.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1972.885 $\pm$ 0.780  $\chi^2$ /NDF: 61778.0/7

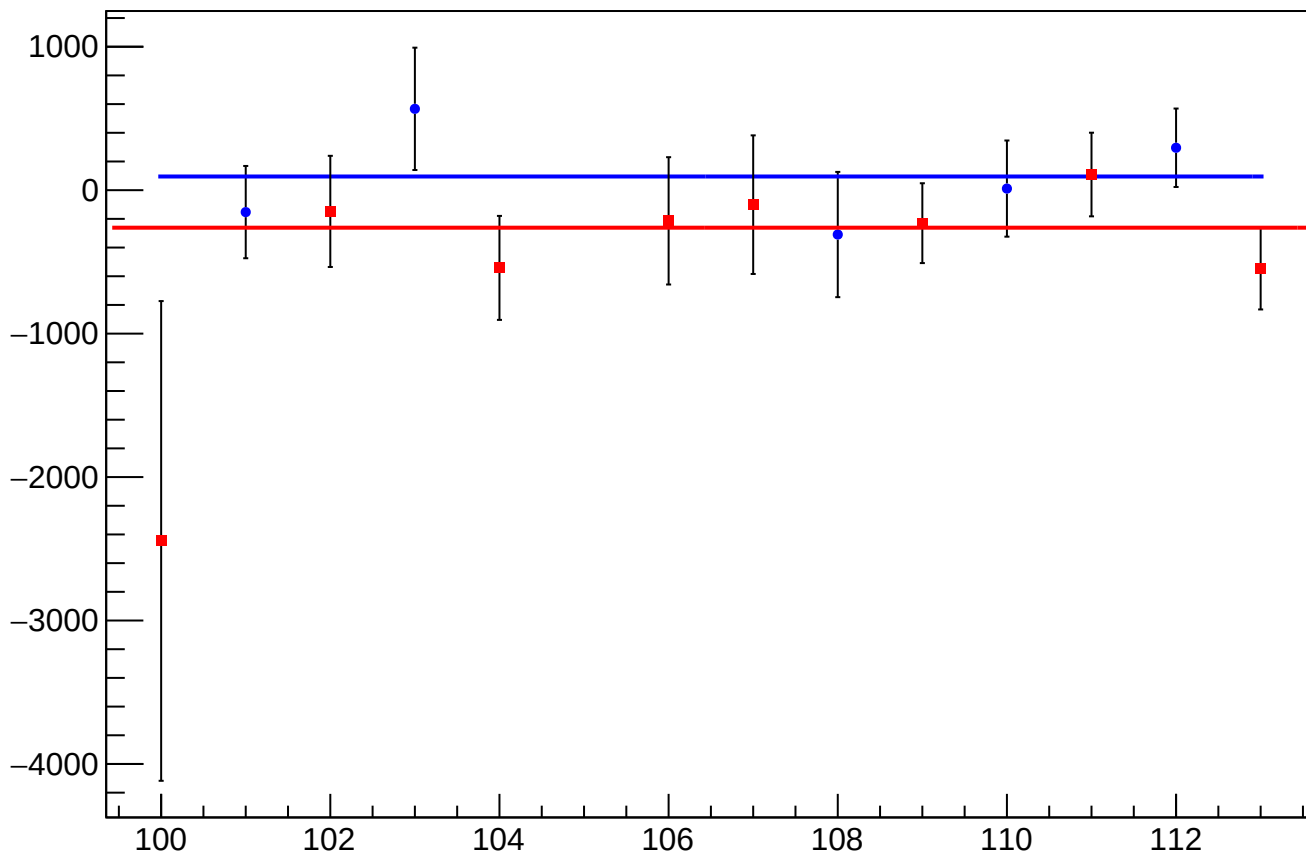
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2007.373 $\pm$ 0.595  $\chi^2$ /NDF: 137498.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam4\_mean vs Slug



Right In: 95.384+/-153.056  $\chi^2/\text{NDF}$ : 3.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -261.494+/-127.982  $\chi^2/\text{NDF}$ : 5.2/7

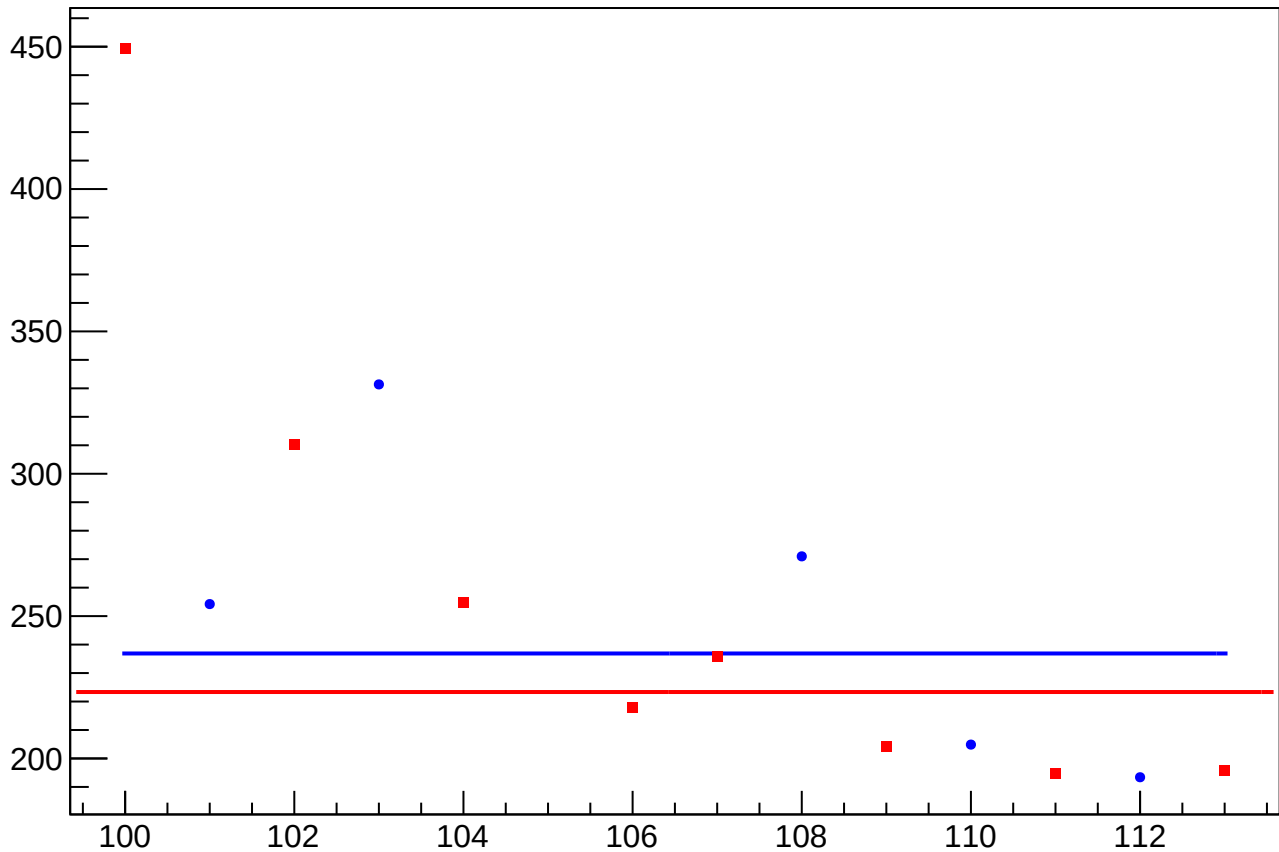
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -114.644+/-98.181  $\chi^2/\text{NDF}$ : 11.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam4\_rms vs Slug



Right In: 236.876+/-0.108  $\chi^2/\text{NDF}$ : 185055.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 223.340+/-0.090  $\chi^2/\text{NDF}$ : 201425.8/7

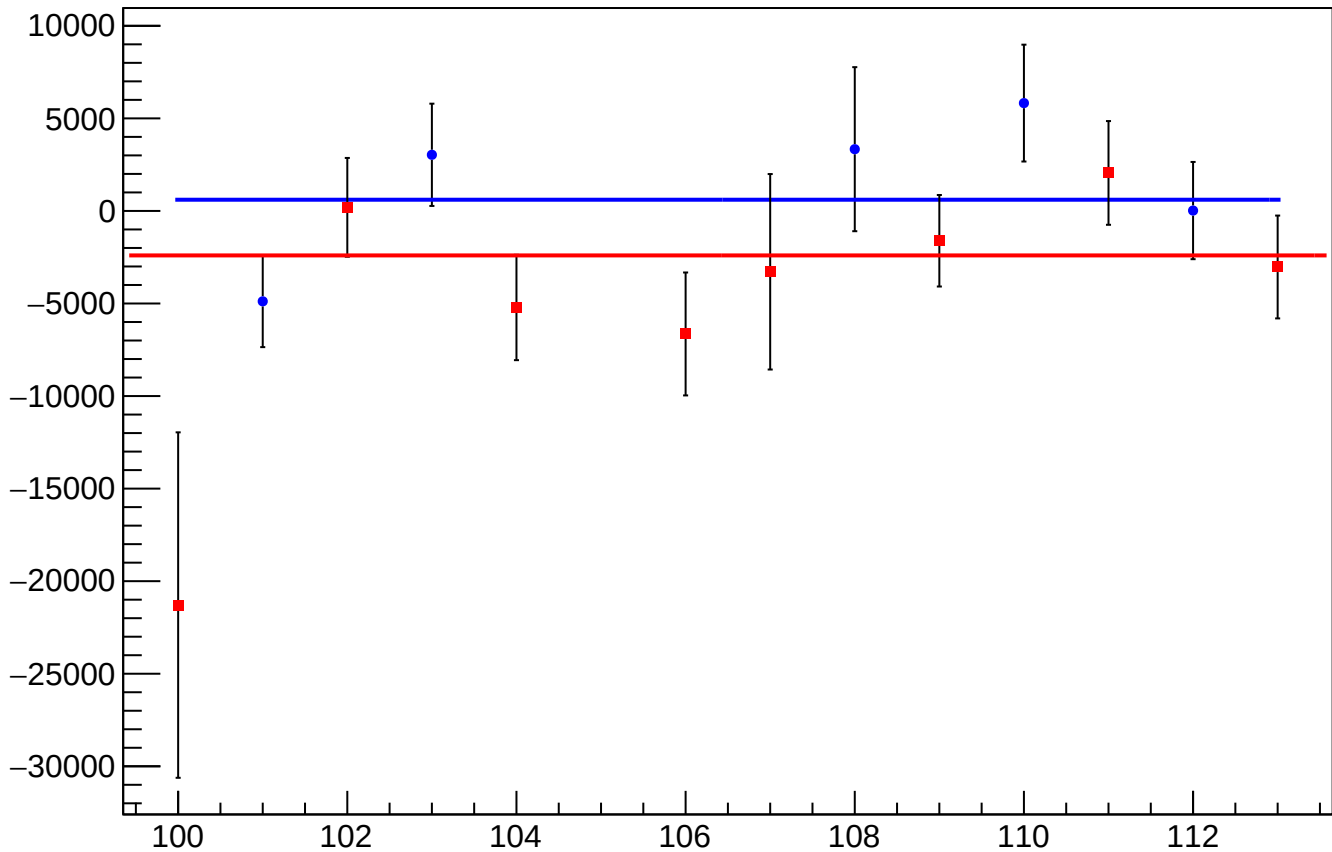
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 228.910+/-0.069  $\chi^2/\text{NDF}$ : 395686.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_eigen\_dit\_correction\_mean vs Slug



Right In: 605.671+/-1301.165  $\chi^2/\text{NDF}$ : 8.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2402.641+/-1102.532  $\chi^2/\text{NDF}$ : 10.4/7

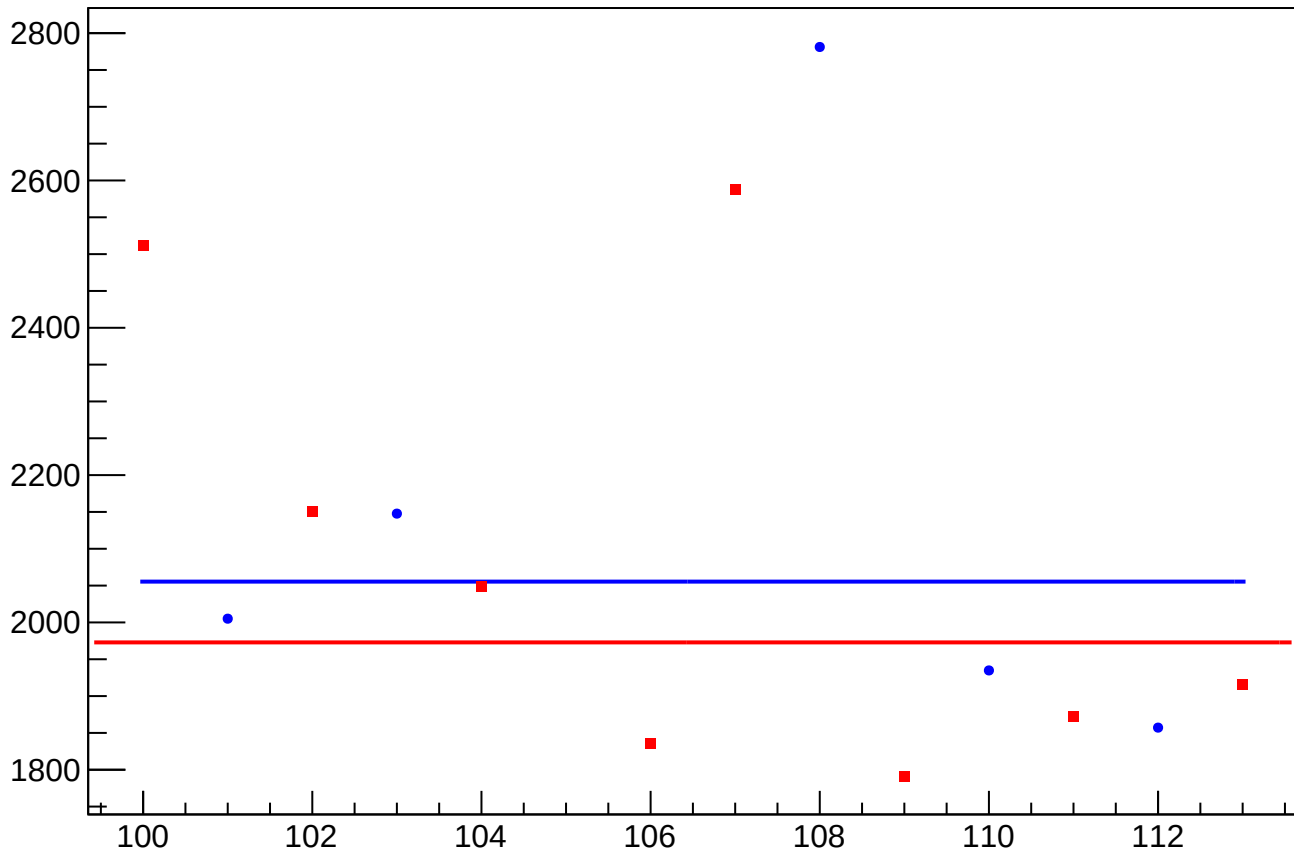
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1145.395+/-841.164  $\chi^2/\text{NDF}$ : 22.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_eigen\_dit\_correction\_rms vs Slug



Right In: 2055.406 $\pm$ 0.920  $\chi^2$ /NDF: 71038.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1972.883 $\pm$ 0.780  $\chi^2$ /NDF: 61778.9/7

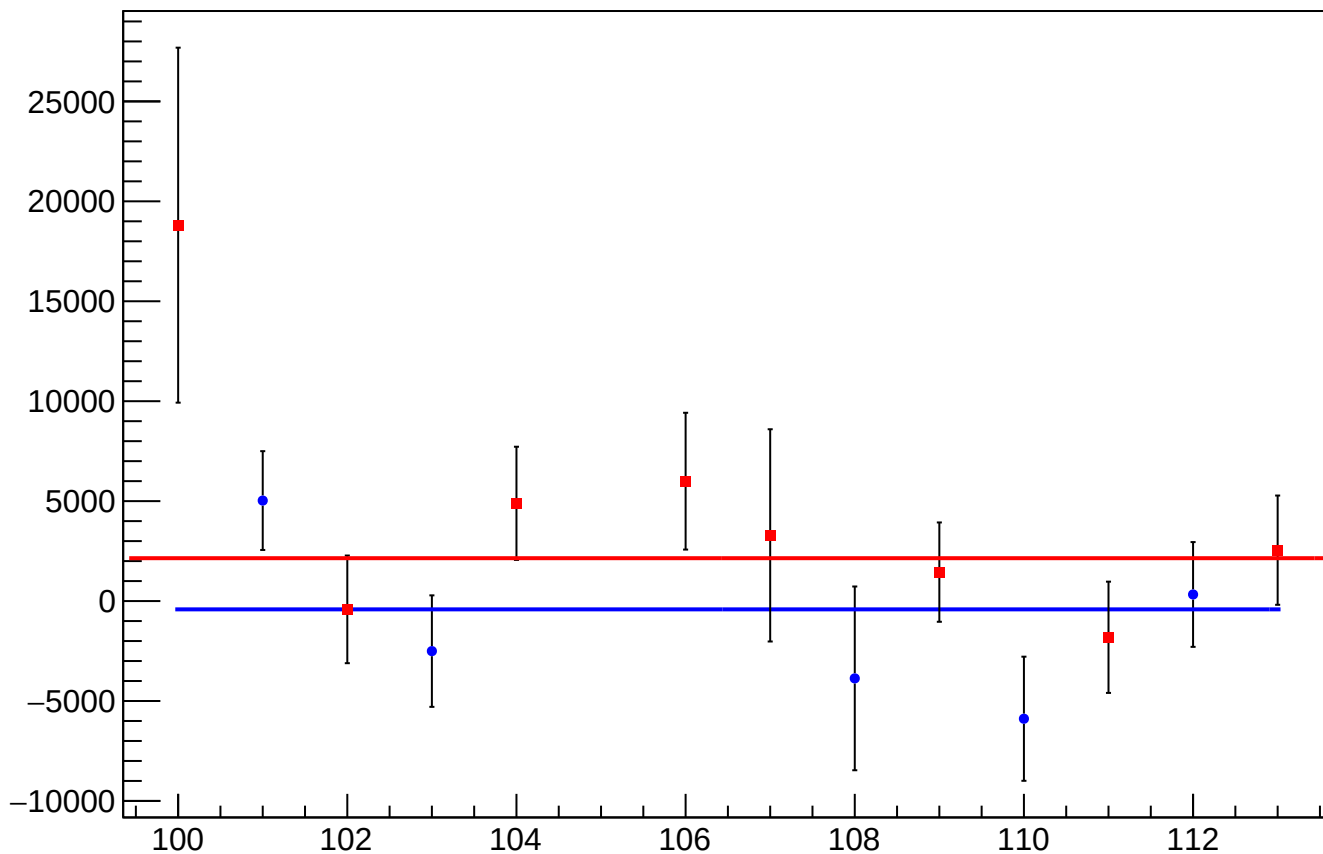
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2007.372 $\pm$ 0.595  $\chi^2$ /NDF: 137500.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_mean vs Slug



Right In: -415.296+/-1303.210  $\chi^2/\text{NDF}$ : 9.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2145.159+/-1103.670  $\chi^2/\text{NDF}$ : 8.8/7

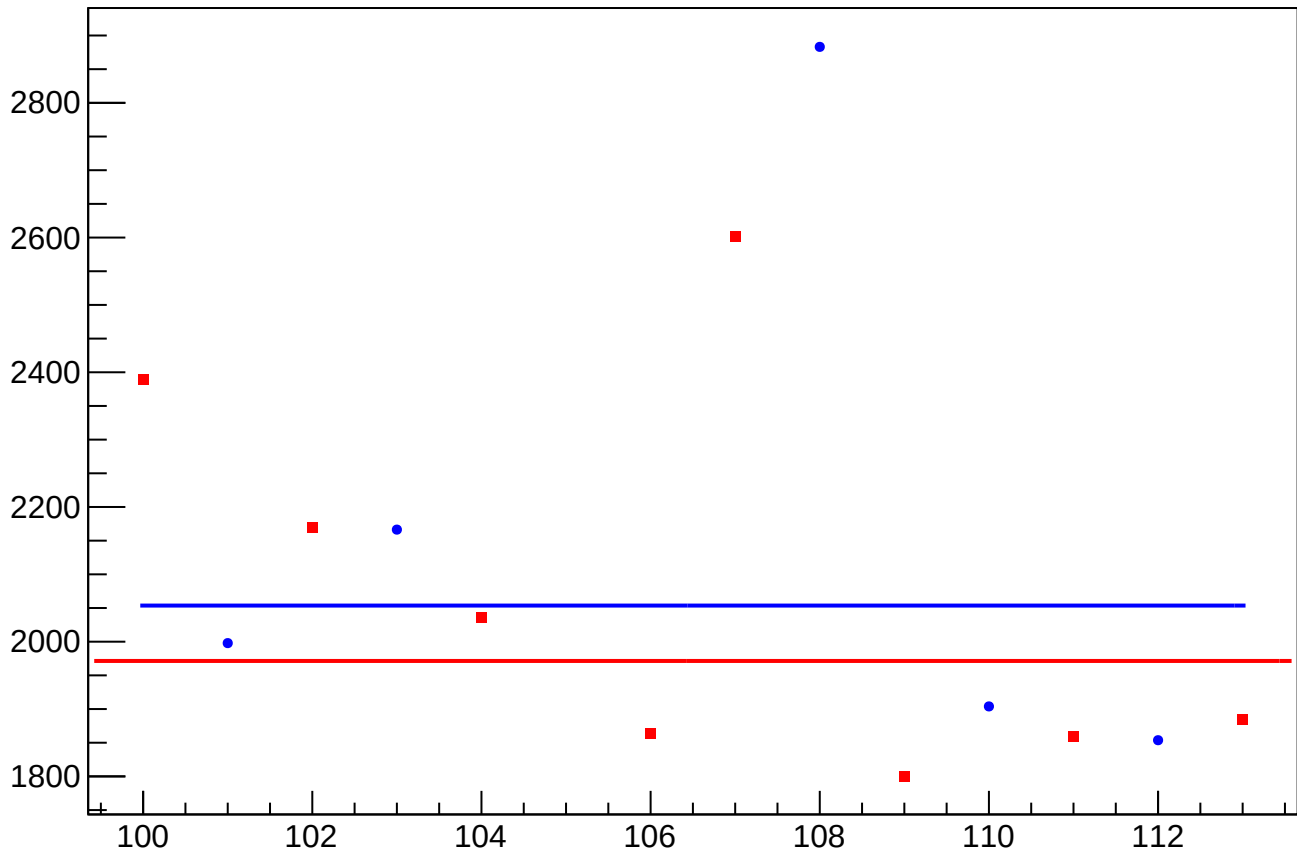
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1075.755+/-842.223  $\chi^2/\text{NDF}$ : 20.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_rms vs Slug



Right In: 2053.627+/-0.922  $\chi^2/\text{NDF}$ : 85691.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1971.401+/-0.780  $\chi^2/\text{NDF}$ : 61294.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

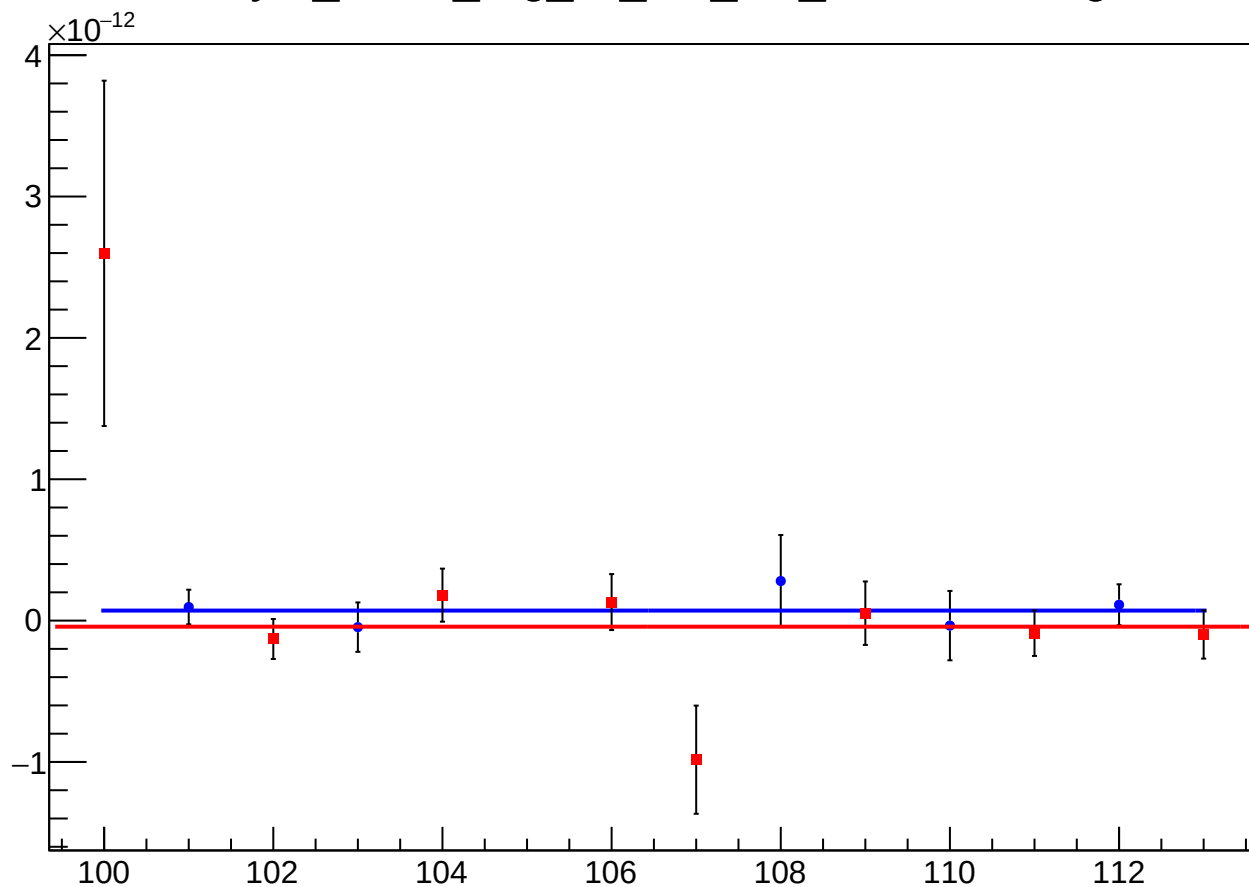
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2005.743+/-0.596  $\chi^2/\text{NDF}$ : 151622.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam4\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.7/7

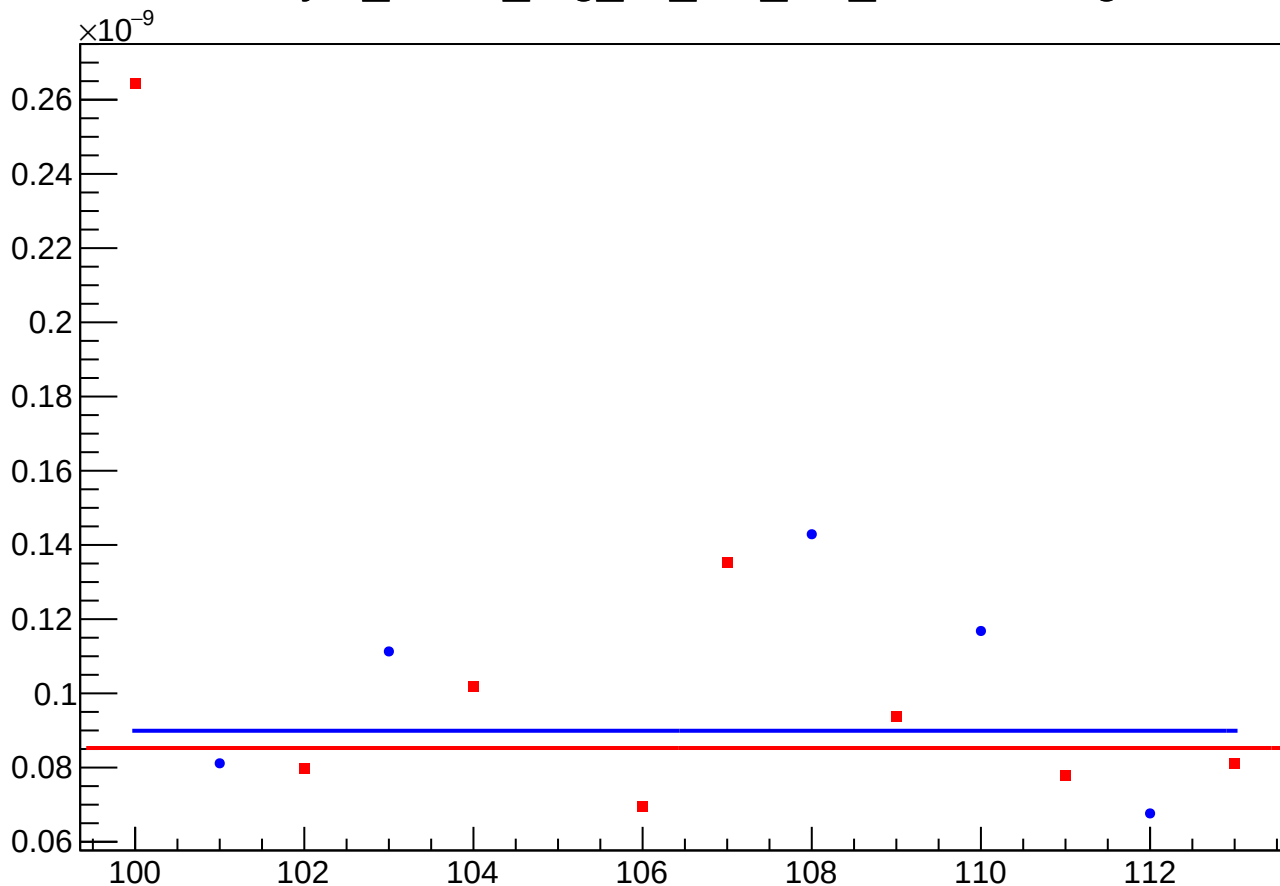
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 164514.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 116858.0/7

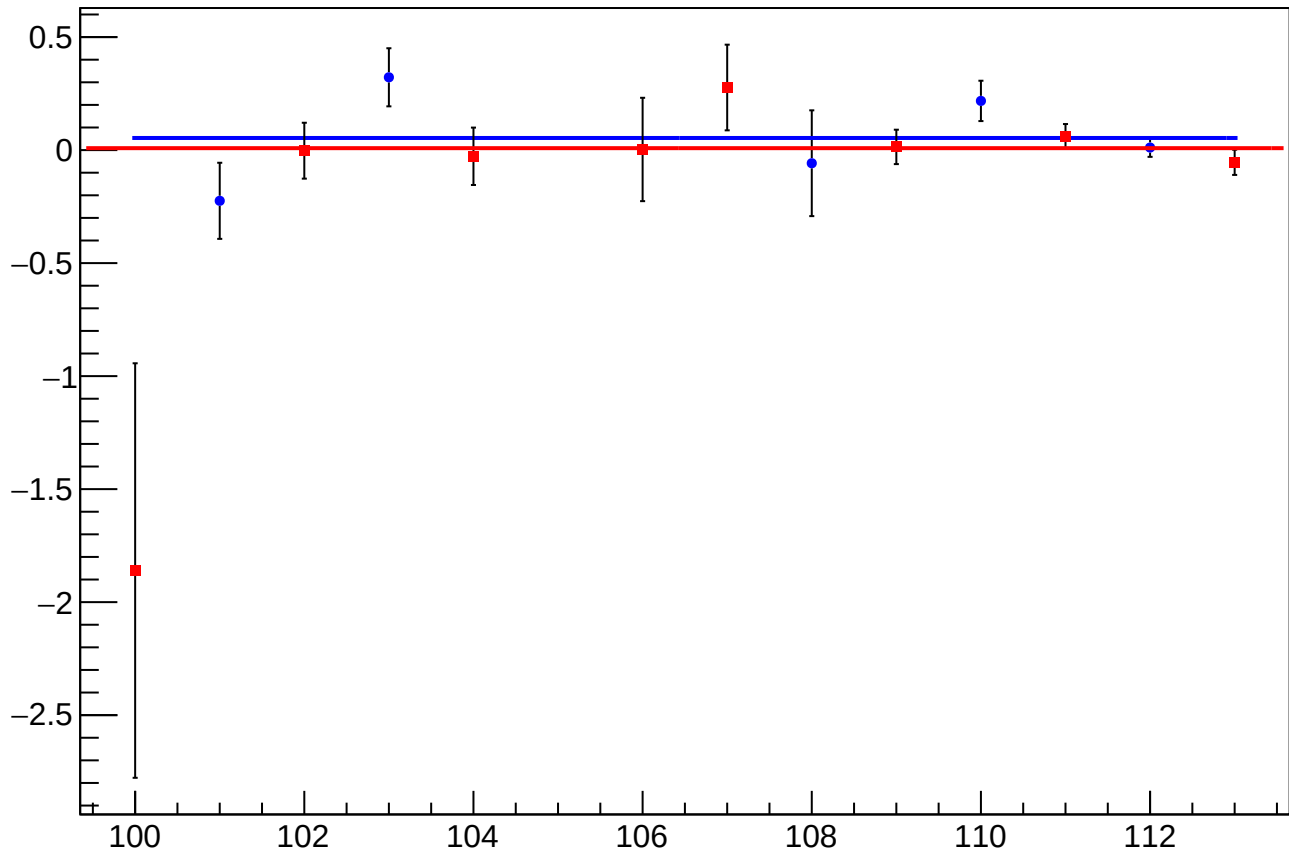
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 285419.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.035  $\chi^2$ /NDF: 11.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.009 $\pm$ 0.032  $\chi^2$ /NDF: 8.4/7

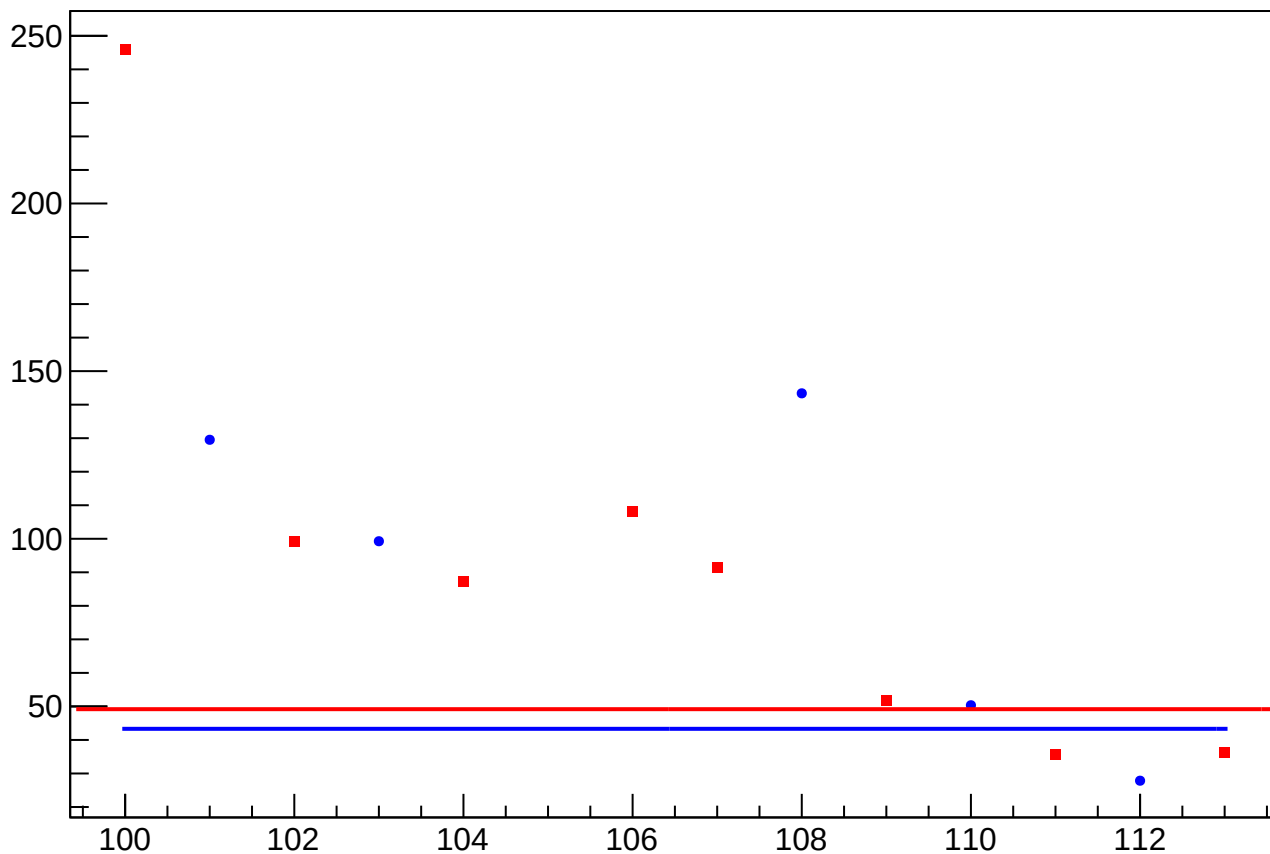
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.029 $\pm$ 0.023  $\chi^2$ /NDF: 21.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 43.321+/-0.025  $\chi^2/\text{NDF}$ : 1564148.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 49.181+/-0.022  $\chi^2/\text{NDF}$ : 1065535.2/7

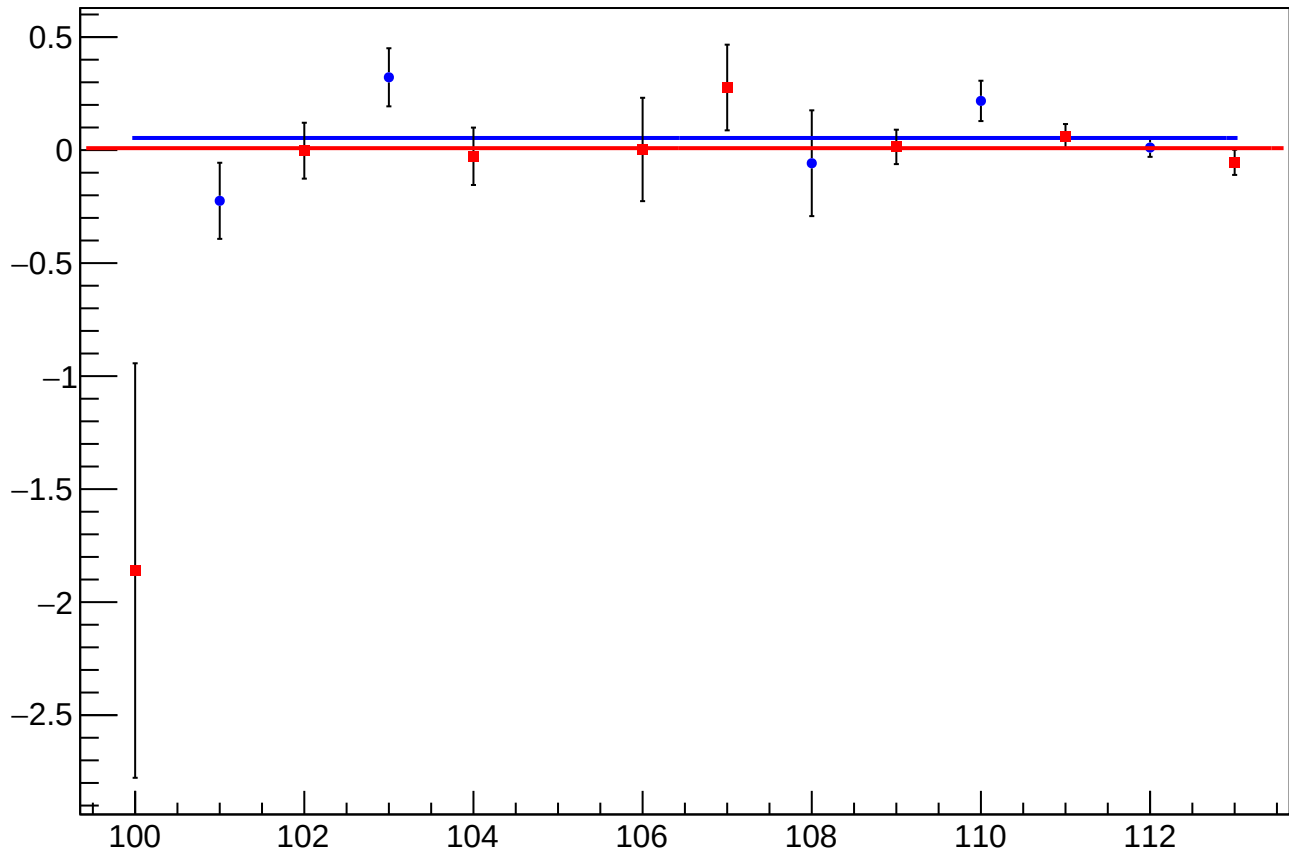
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.521+/-0.017  $\chi^2/\text{NDF}$ : 2660819.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.035  $\chi^2$ /NDF: 11.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.009 $\pm$ 0.032  $\chi^2$ /NDF: 8.4/7

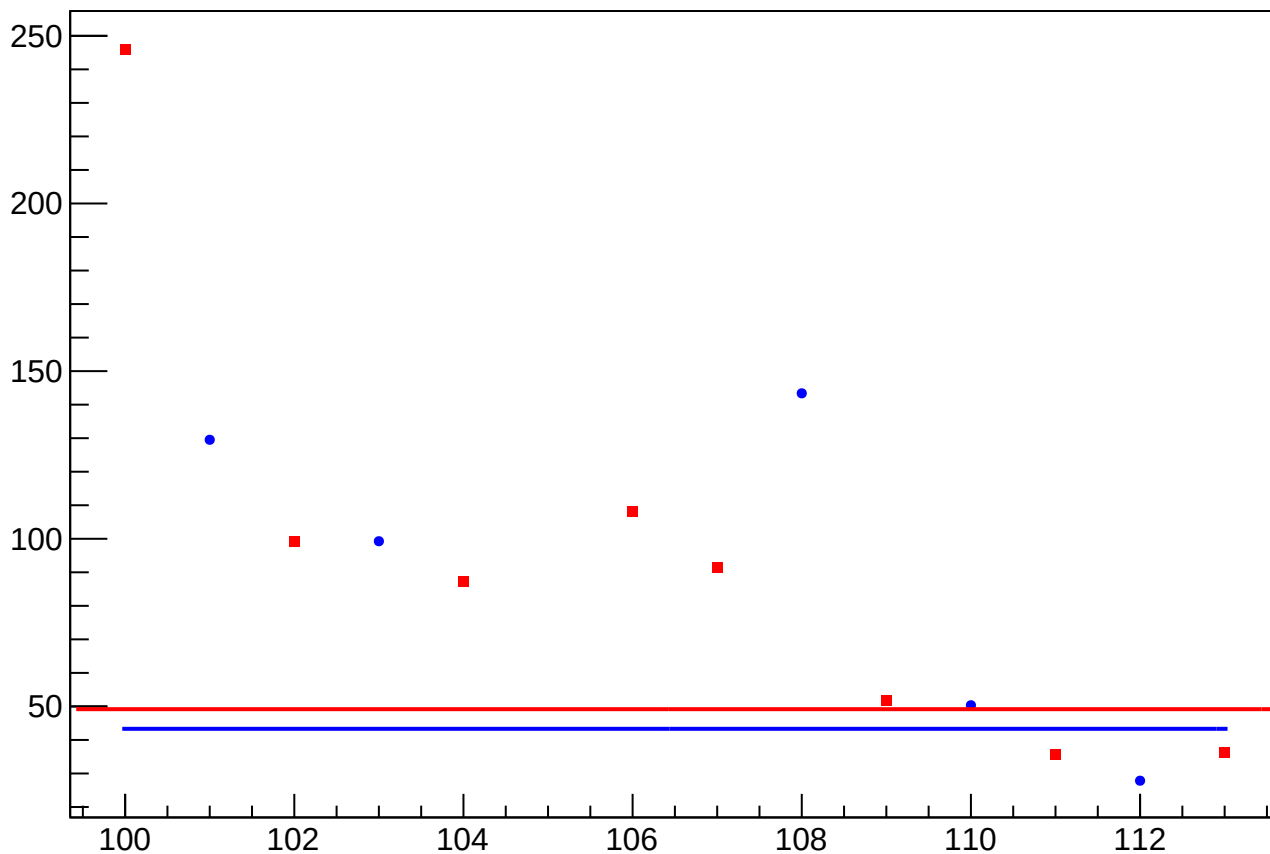
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.029 $\pm$ 0.023  $\chi^2$ /NDF: 21.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 43.321+/-0.025  $\chi^2/\text{NDF}$ : 1564148.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 49.181+/-0.022  $\chi^2/\text{NDF}$ : 1065535.2/7

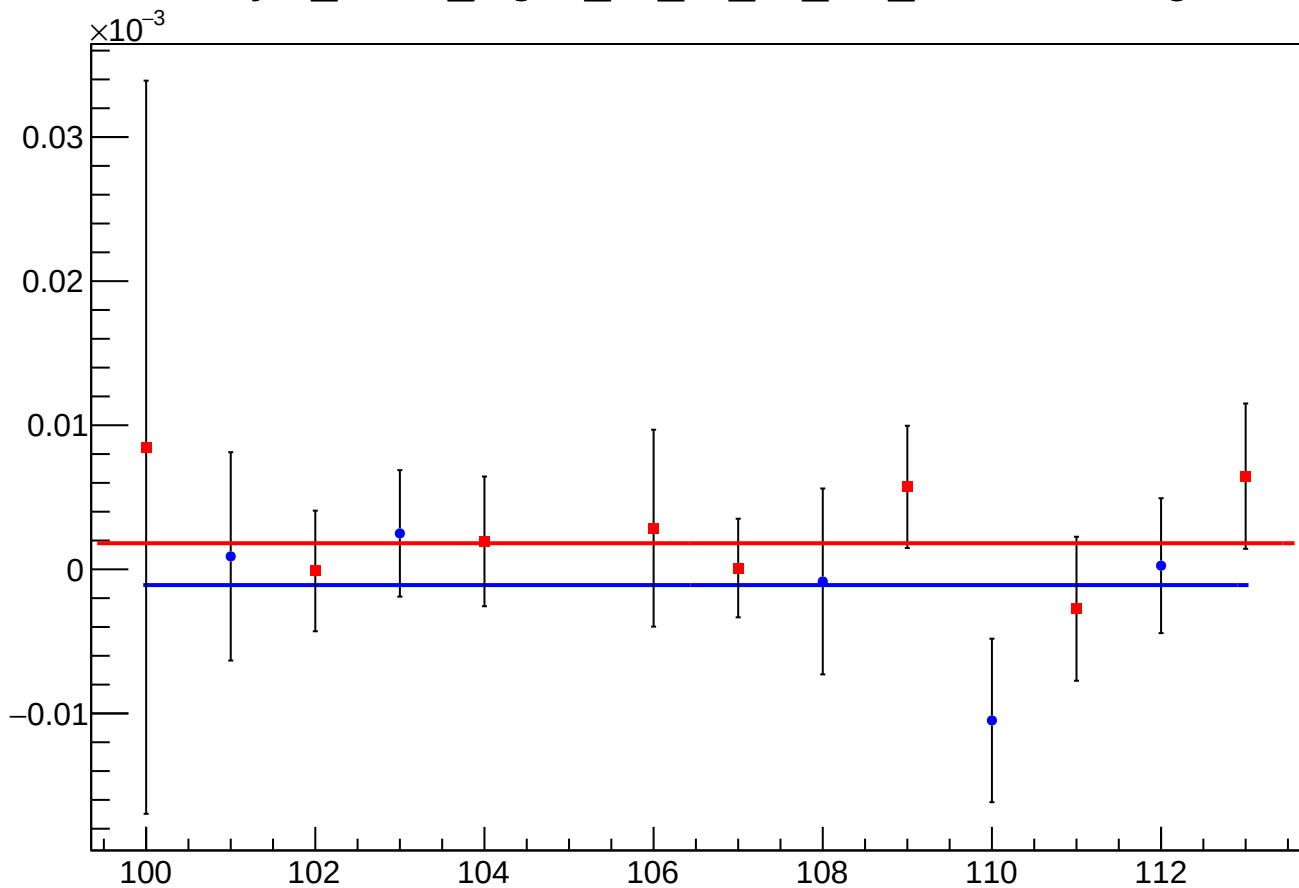
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.521+/-0.017  $\chi^2/\text{NDF}$ : 2660819.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.1/7

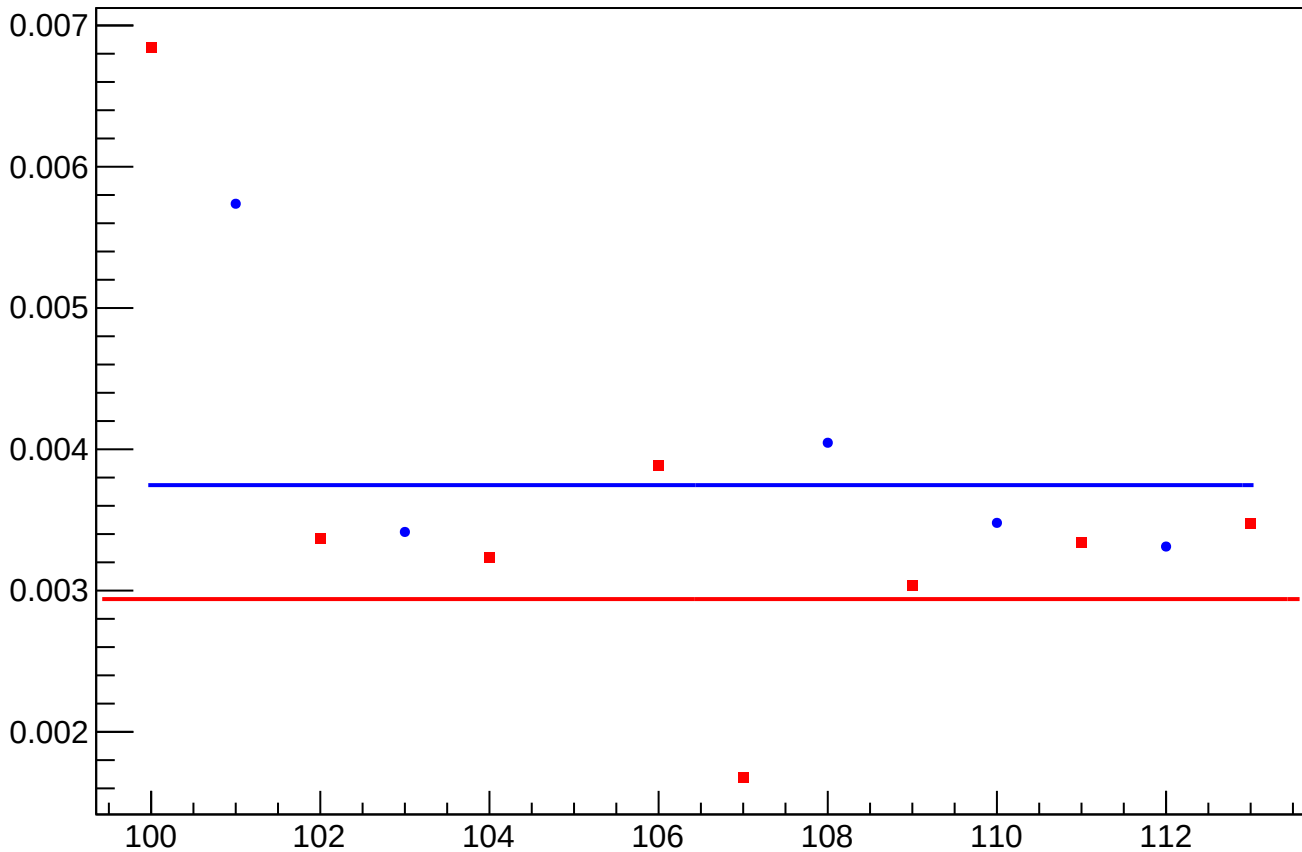
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 189172.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 423636.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

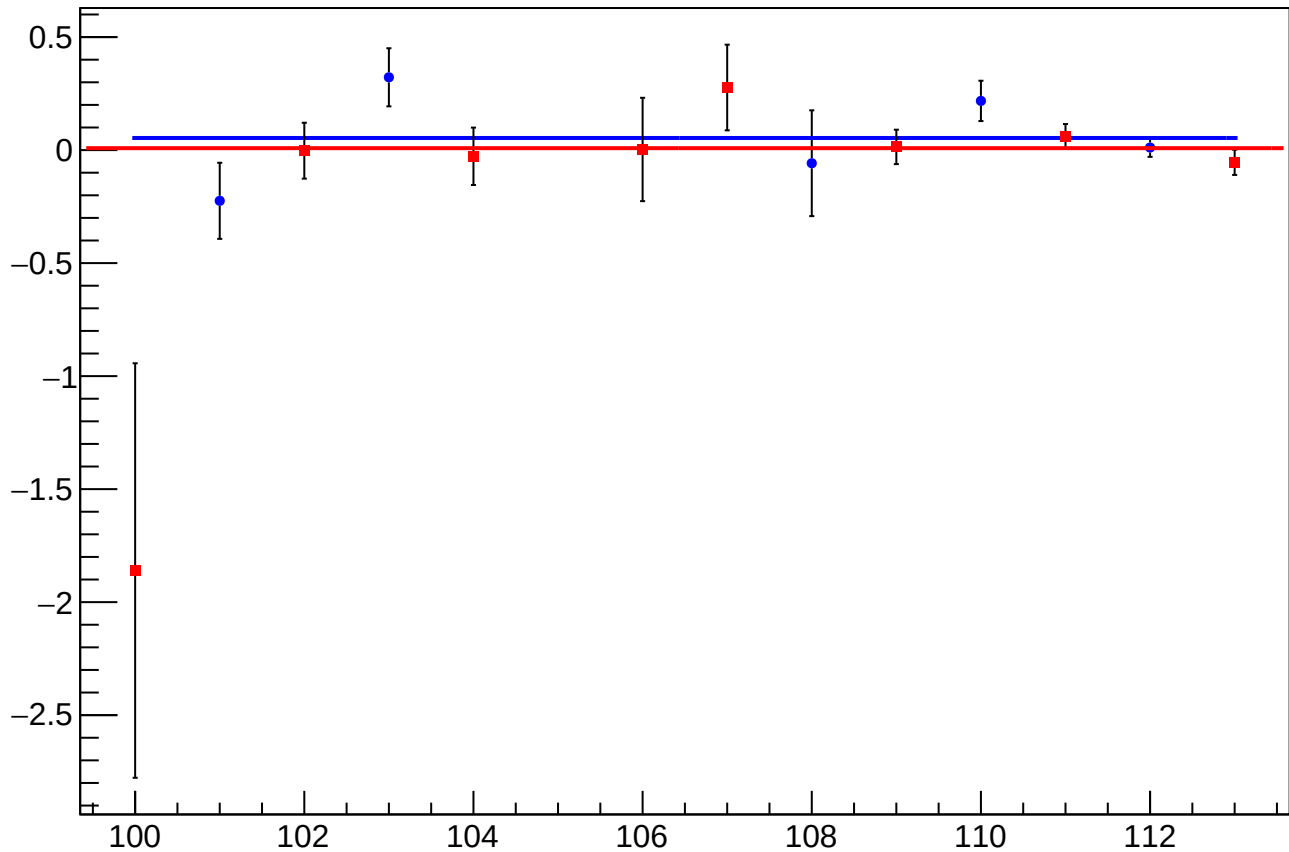
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 762665.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam4\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.035  $\chi^2$ /NDF: 11.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.009 $\pm$ 0.032  $\chi^2$ /NDF: 8.4/7

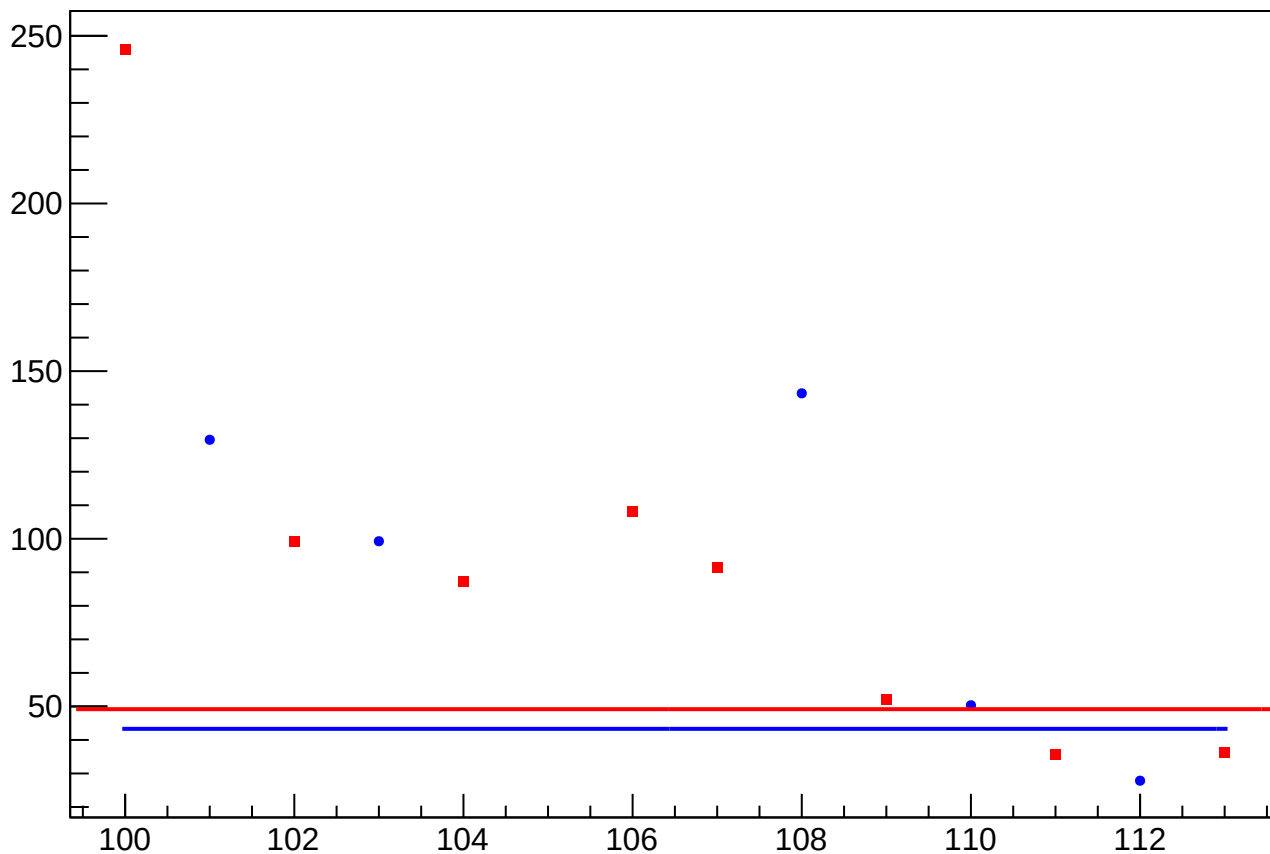
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.029 $\pm$ 0.023  $\chi^2$ /NDF: 21.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 43.319+/-0.025  $\chi^2/\text{NDF}$ : 1564224.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 49.179+/-0.022  $\chi^2/\text{NDF}$ : 1065630.1/7

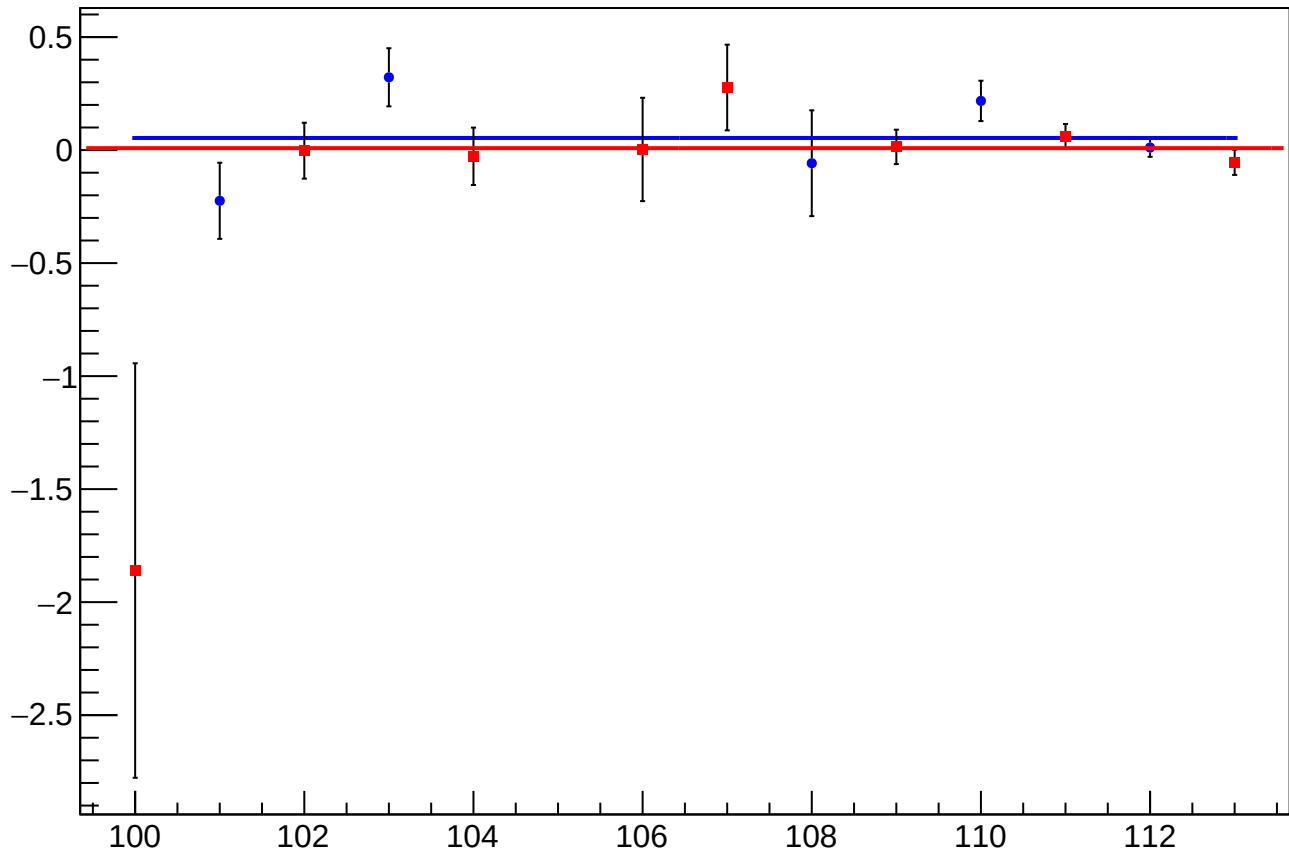
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.519+/-0.017  $\chi^2/\text{NDF}$ : 2660993.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam4\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.035  $\chi^2$ /NDF: 11.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.009 $\pm$ 0.032  $\chi^2$ /NDF: 8.4/7

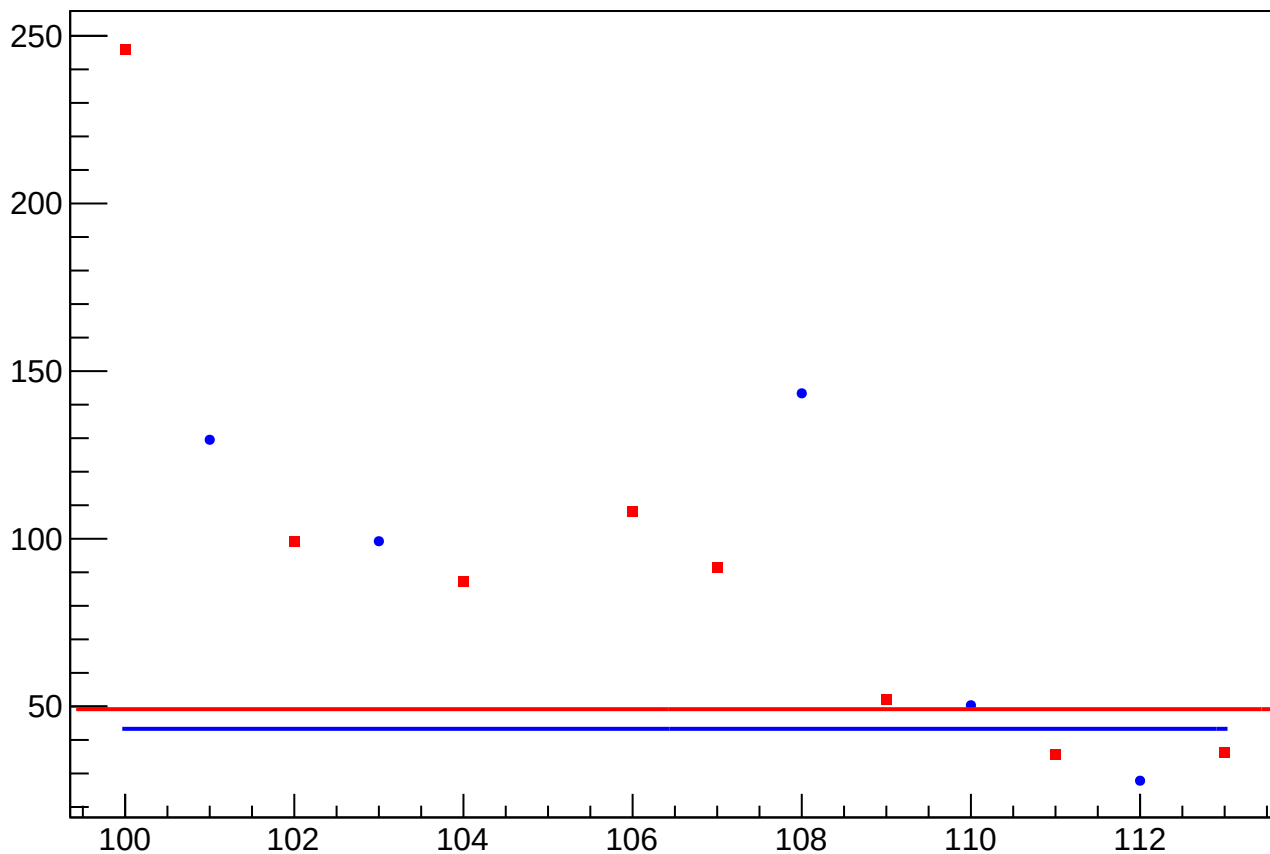
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.029 $\pm$ 0.023  $\chi^2$ /NDF: 21.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam4\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 43.319+/-0.025  $\chi^2/\text{NDF}$ : 1564224.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 49.179+/-0.022  $\chi^2/\text{NDF}$ : 1065630.1/7

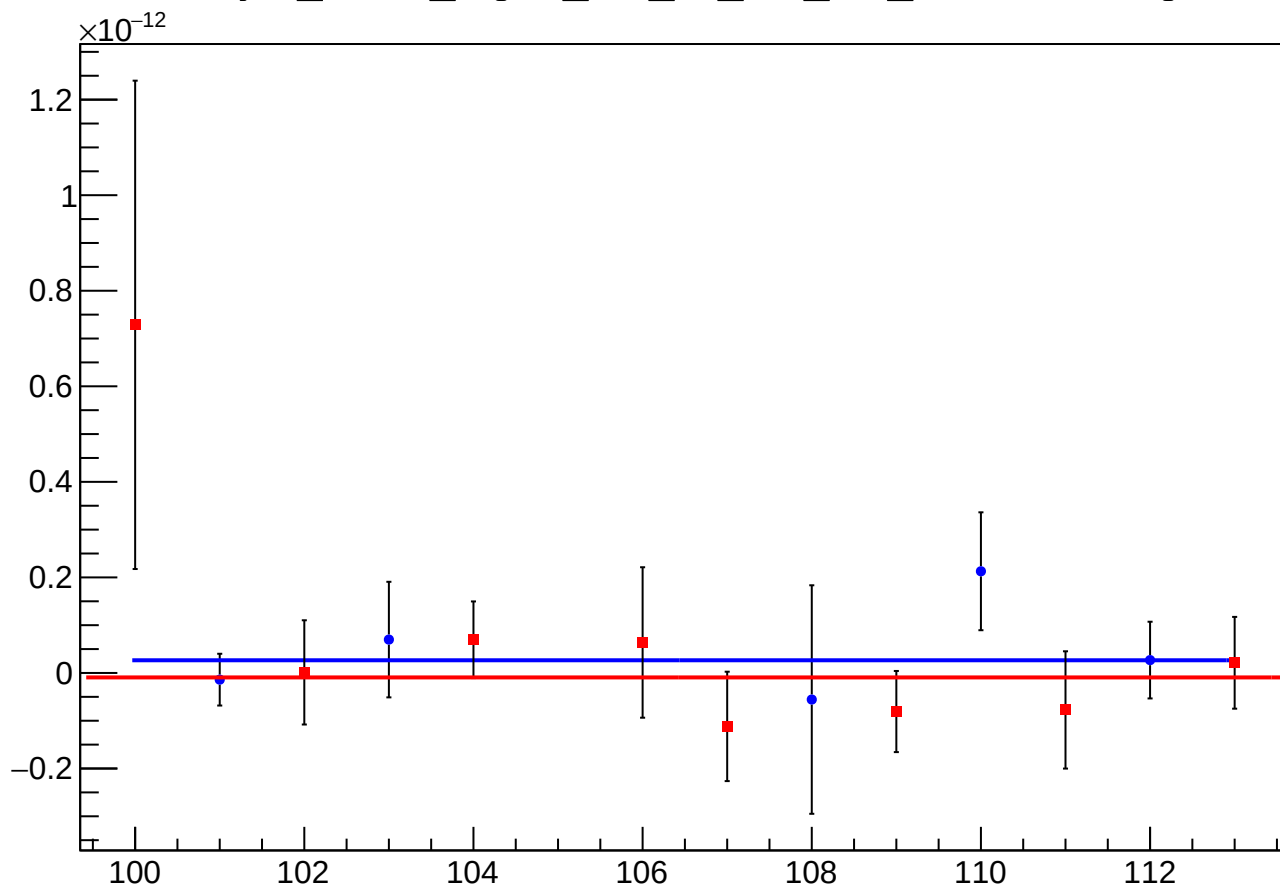
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.519+/-0.017  $\chi^2/\text{NDF}$ : 2660993.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.2/7

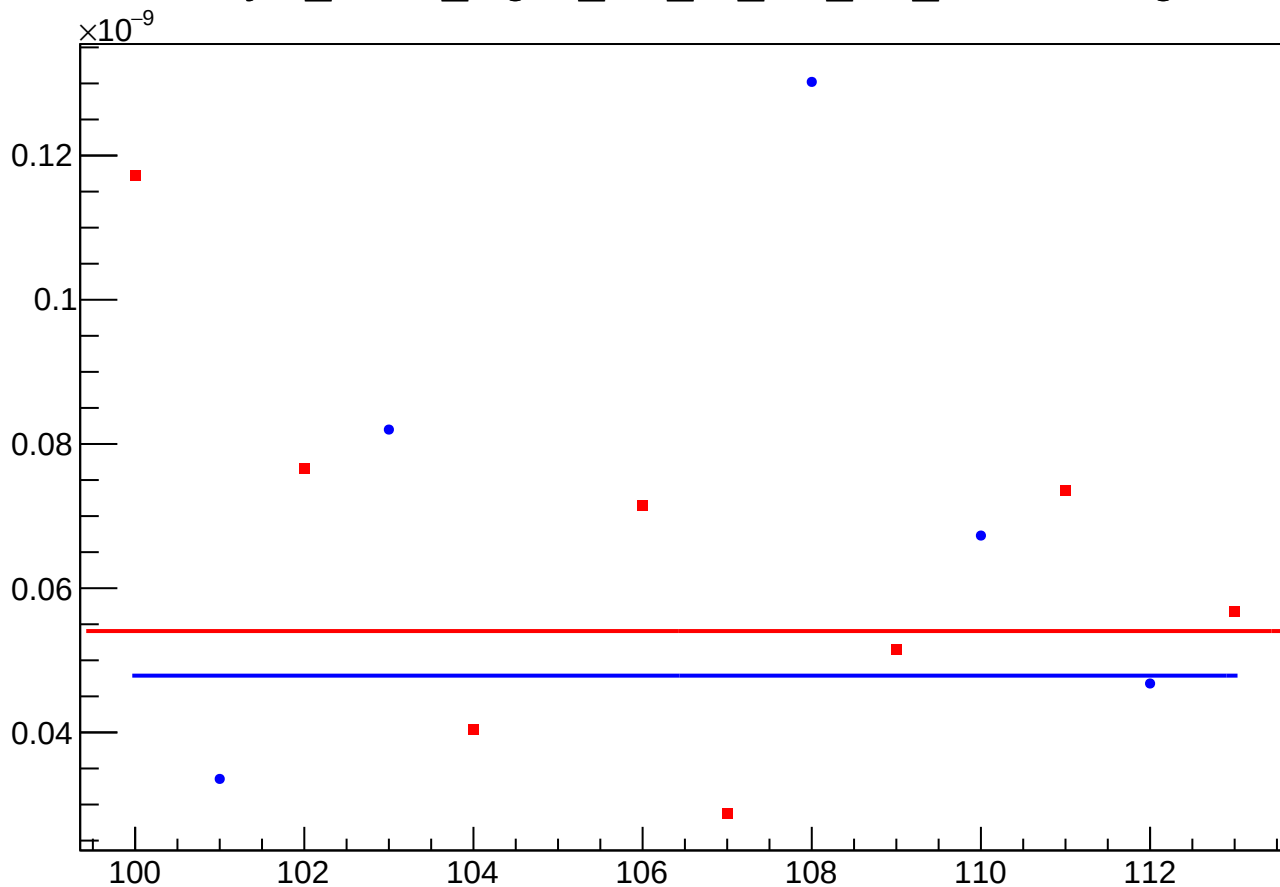
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 585948.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 349583.5/7

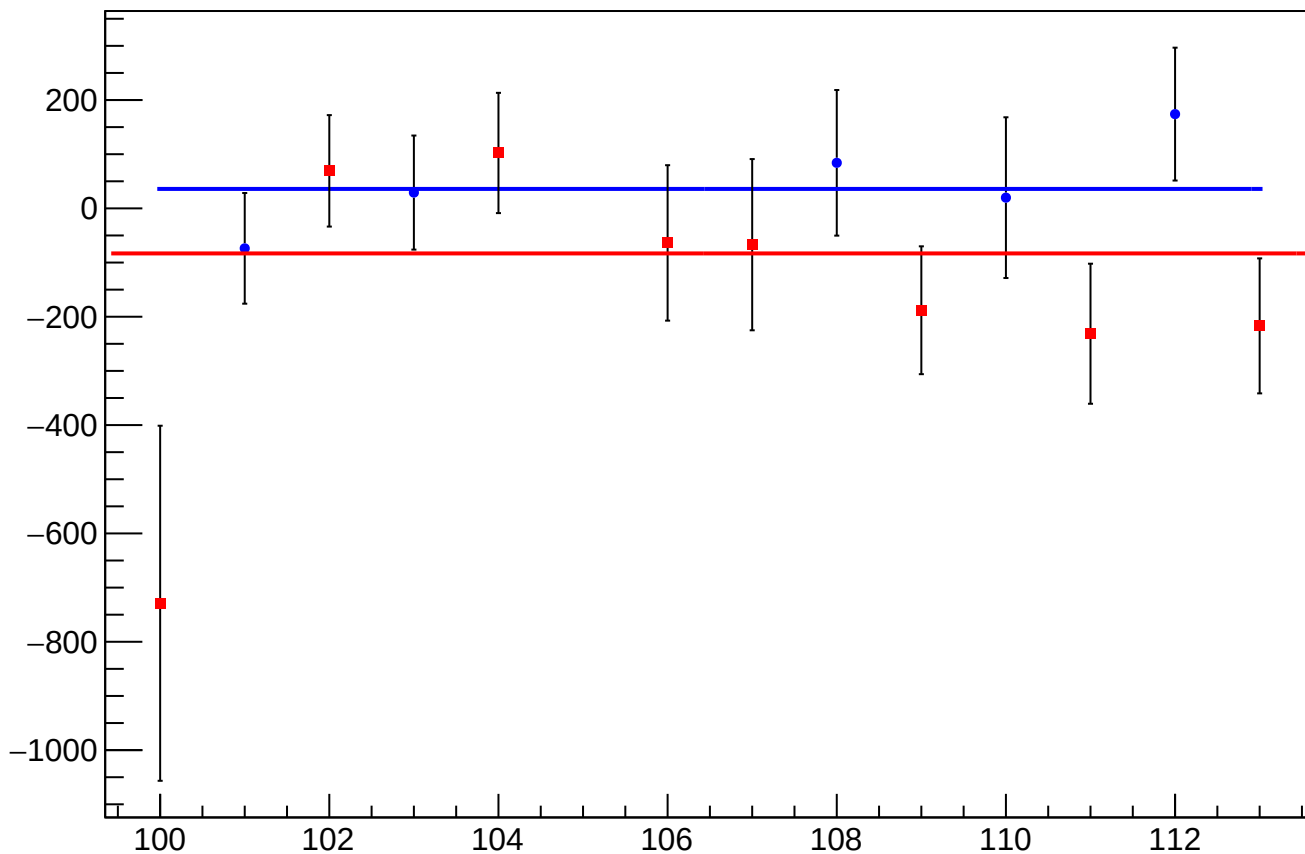
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 960773.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_mean vs Slug



Right In: 35.914+/-53.197  $\chi^2/\text{NDF}$ : 2.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -83.143+/-46.144  $\chi^2/\text{NDF}$ : 12.2/7

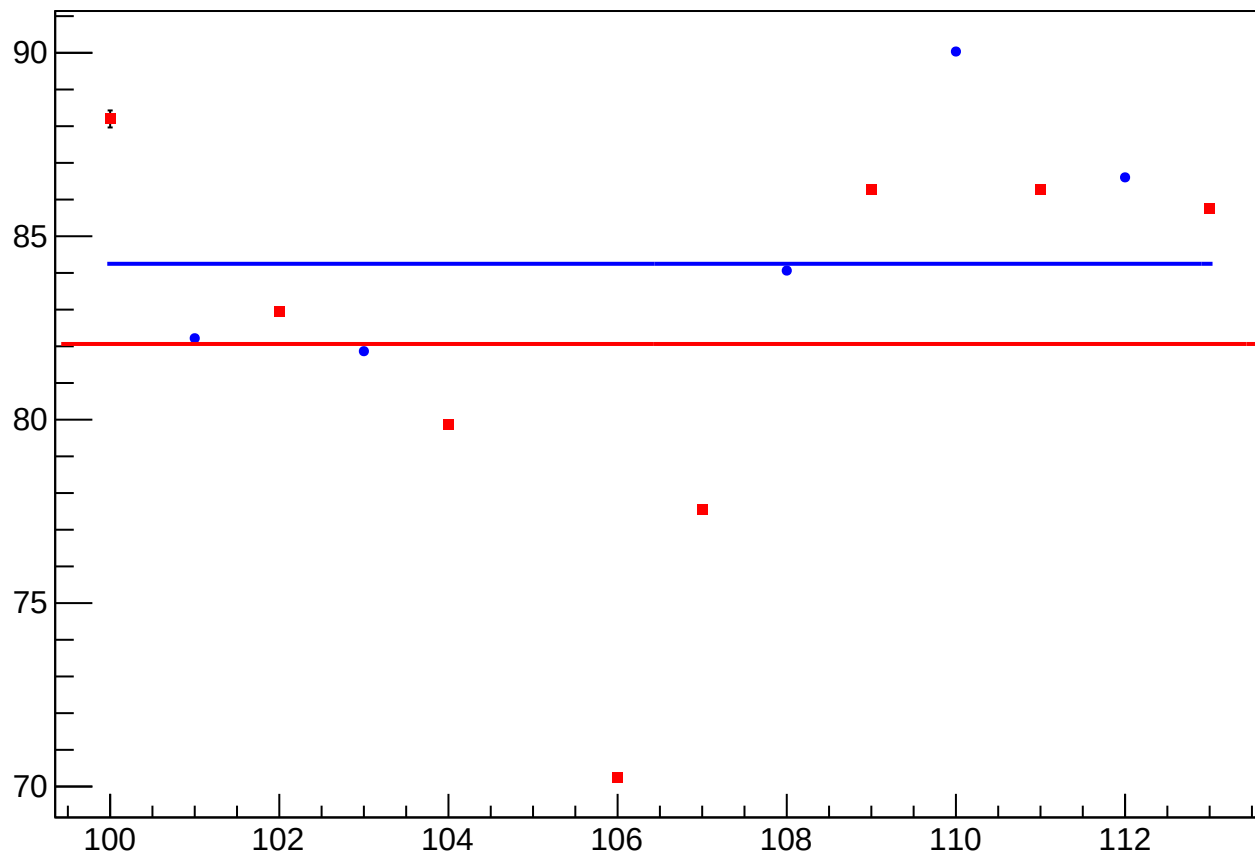
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.025+/-34.858  $\chi^2/\text{NDF}$ : 17.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_rms vs Slug



Right In: 84.249 $\pm$ 0.038  $\chi^2$ /NDF: 5598.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 82.063 $\pm$ 0.033  $\chi^2$ /NDF: 23218.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

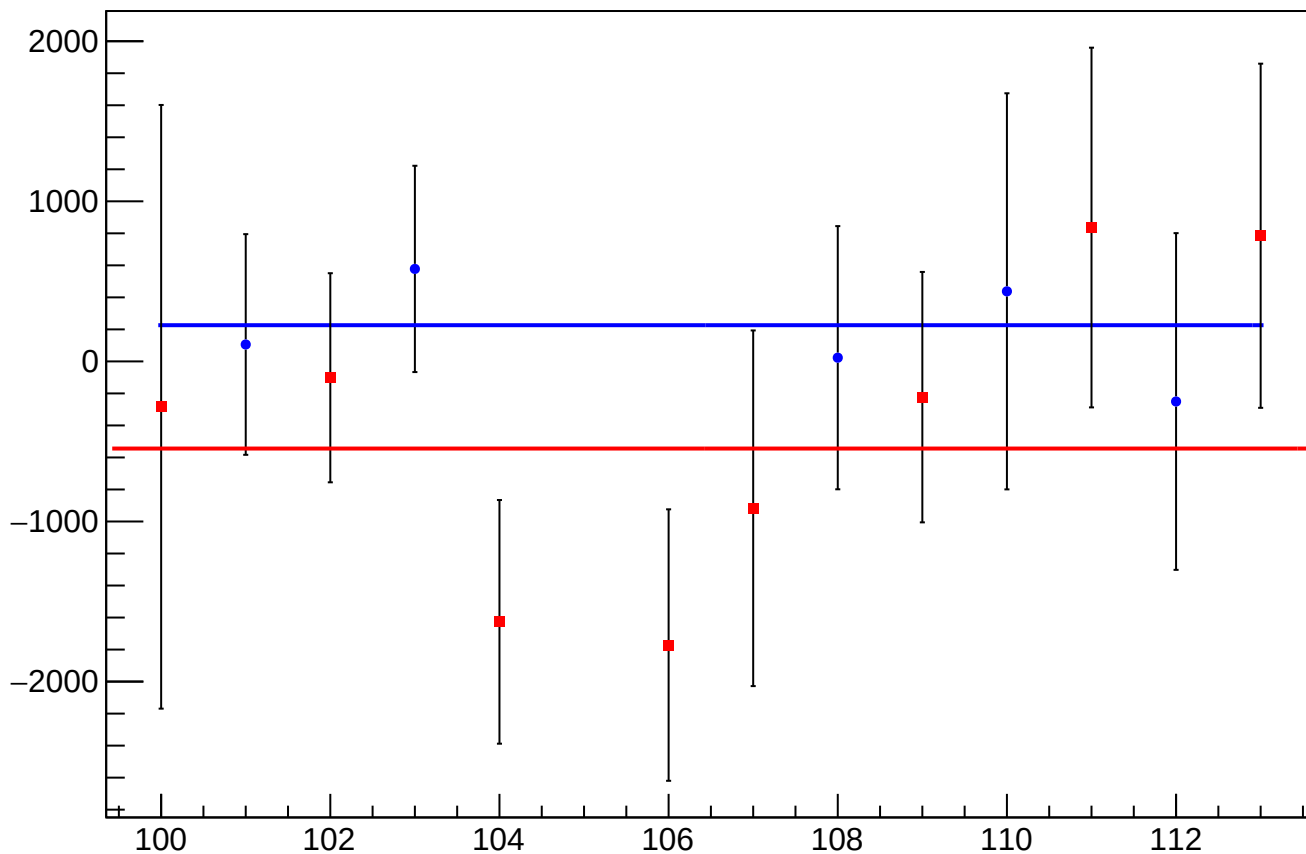
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 83.002 $\pm$ 0.025  $\chi^2$ /NDF: 30743.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam5\_reg\_correction\_mean vs Slug



Right In: 226.170+/-363.900  $\chi^2/\text{NDF}$ : 0.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -544.338+/-318.693  $\chi^2/\text{NDF}$ : 7.9/7

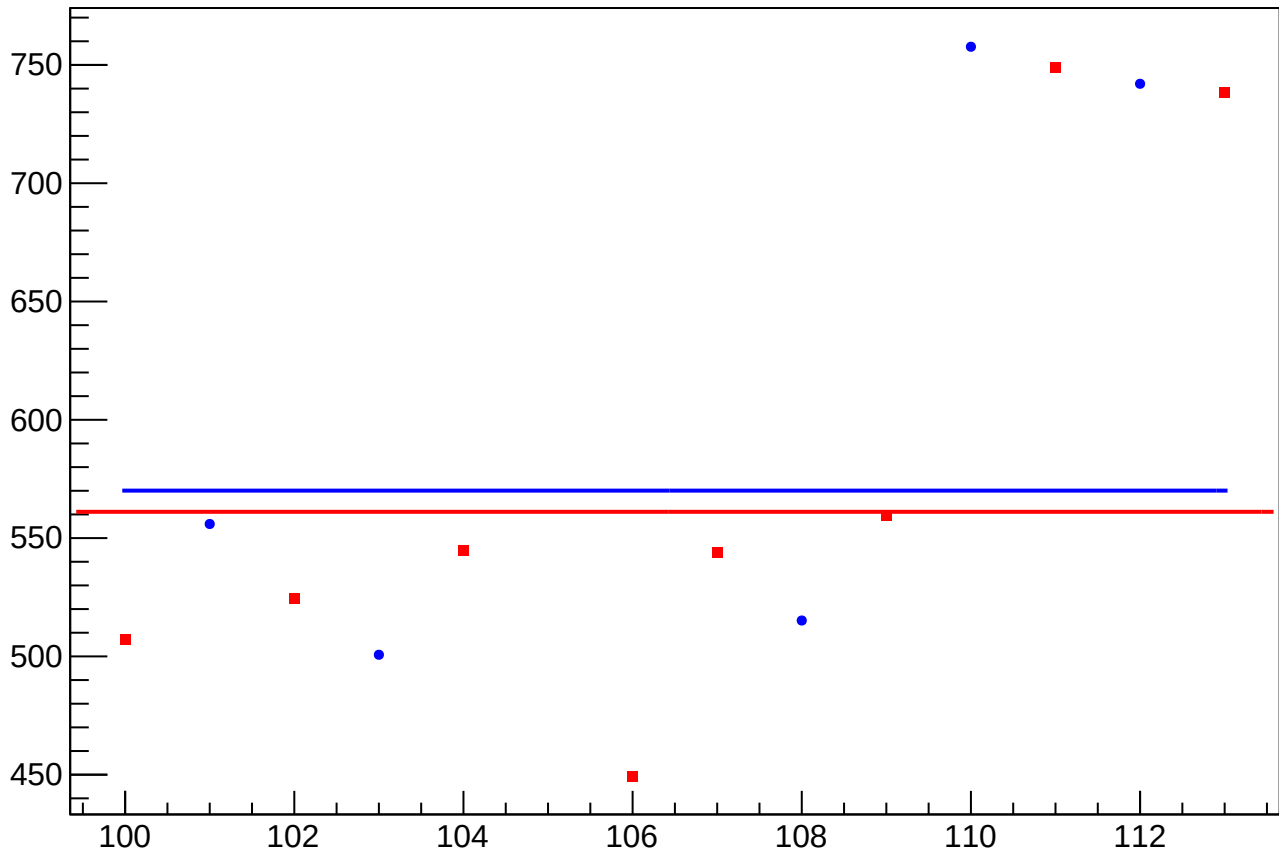
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -209.891+/-239.749  $\chi^2/\text{NDF}$ : 11.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_reg\_correction\_rms vs Slug



Right In: 570.071 $\pm$ 0.257  $\chi^2$ /NDF: 132424.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 561.117 $\pm$ 0.225  $\chi^2$ /NDF: 154358.7/7

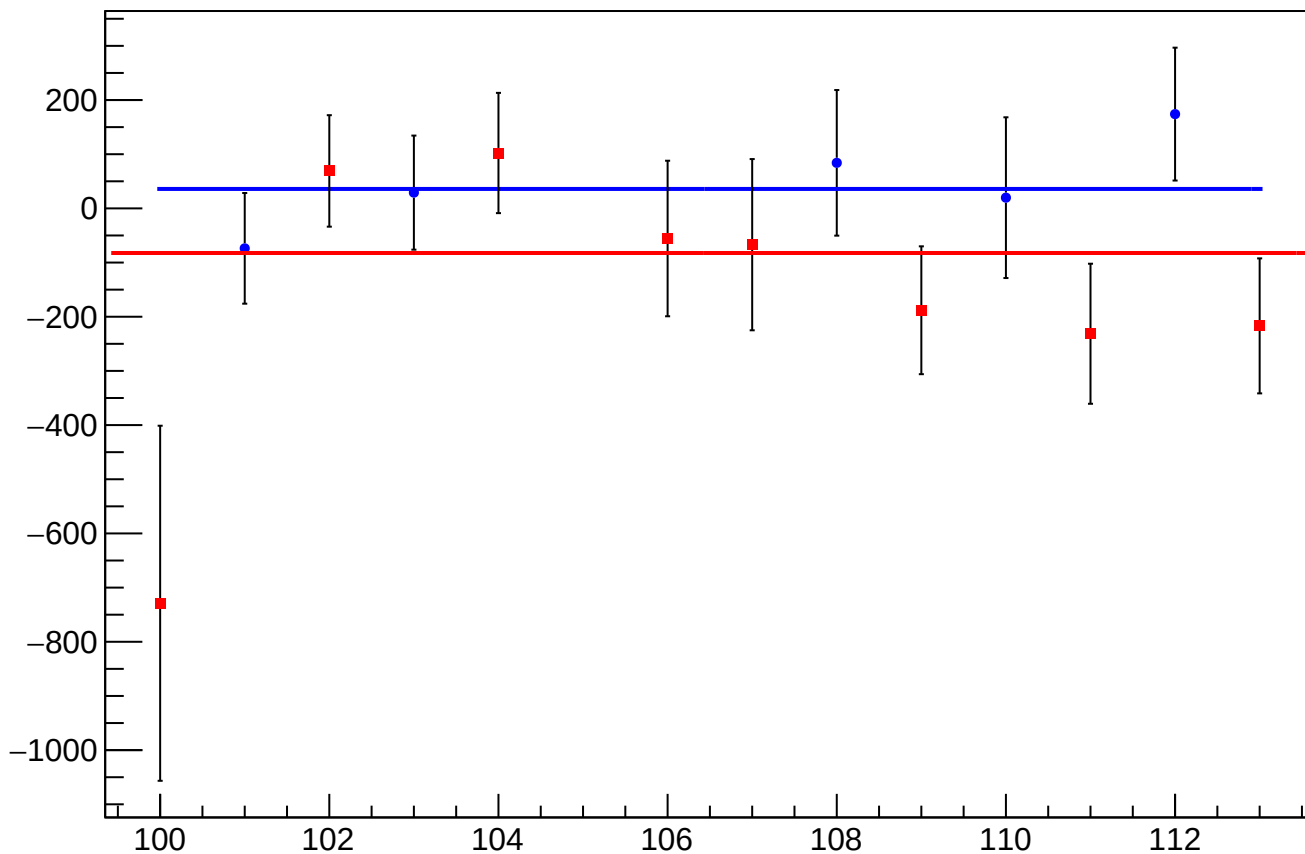
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 565.004 $\pm$ 0.170  $\chi^2$ /NDF: 287468.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam5\_mean vs Slug



Right In: 35.894 $\pm$ 53.197  $\chi^2$ /NDF: 2.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -82.350 $\pm$ 46.149  $\chi^2$ /NDF: 12.2/7

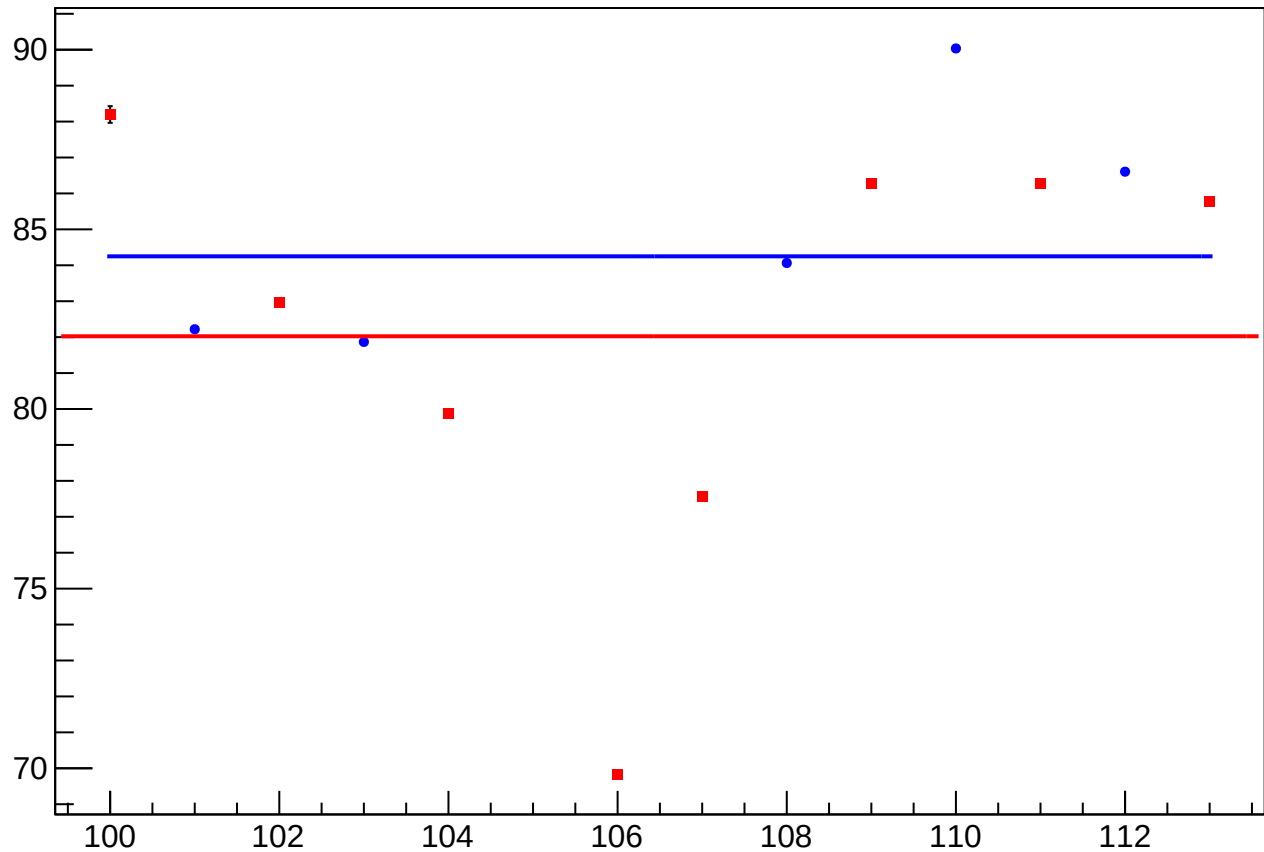
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -31.575 $\pm$ 34.860  $\chi^2$ /NDF: 17.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam5\_rms vs Slug



Right In: 84.249 $\pm$ 0.038  $\chi^2$ /NDF: 5598.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 82.024 $\pm$ 0.033  $\chi^2$ /NDF: 24185.4/7

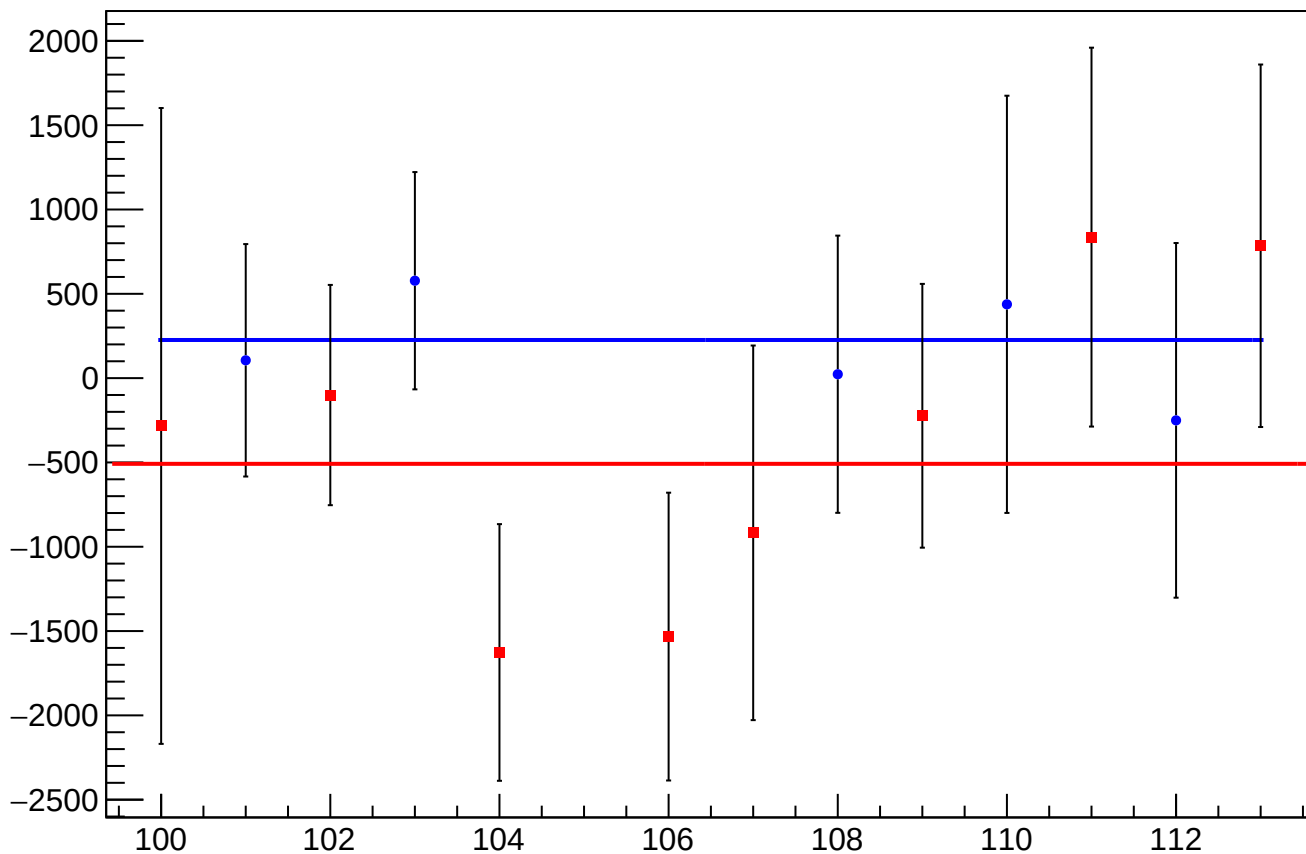
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 82.980 $\pm$ 0.025  $\chi^2$ /NDF: 31779.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_cor\_correction\_mean vs Slug



Right In: 226.167 $\pm$ 363.900  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -508.280 $\pm$ 318.987  $\chi^2$ /NDF: 7.2/7

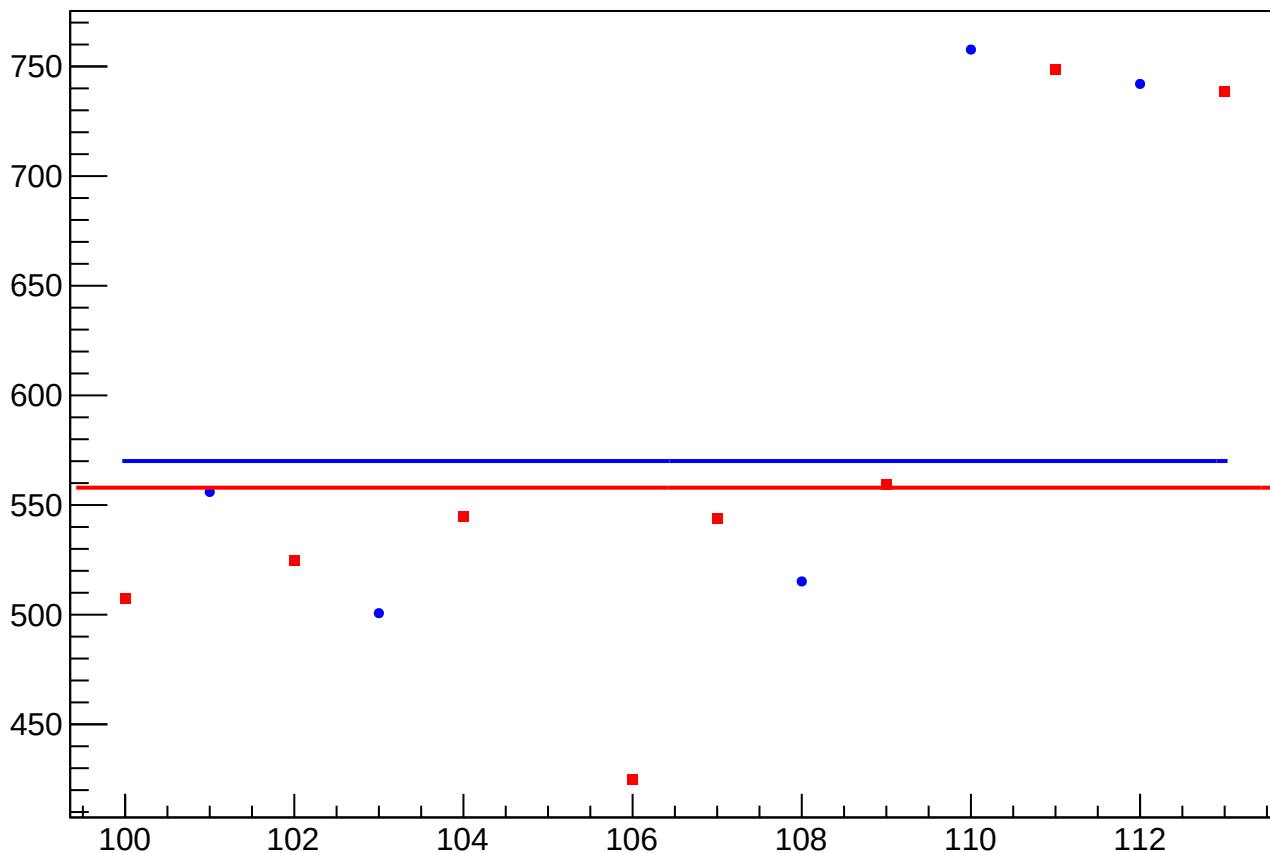
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -189.153 $\pm$ 239.874  $\chi^2$ /NDF: 10.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_cor\_correction\_rms vs Slug



Right In: 570.071 $\pm$ 0.257  $\chi^2$ /NDF: 132426.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 557.916 $\pm$ 0.226  $\chi^2$ /NDF: 170341.6/7

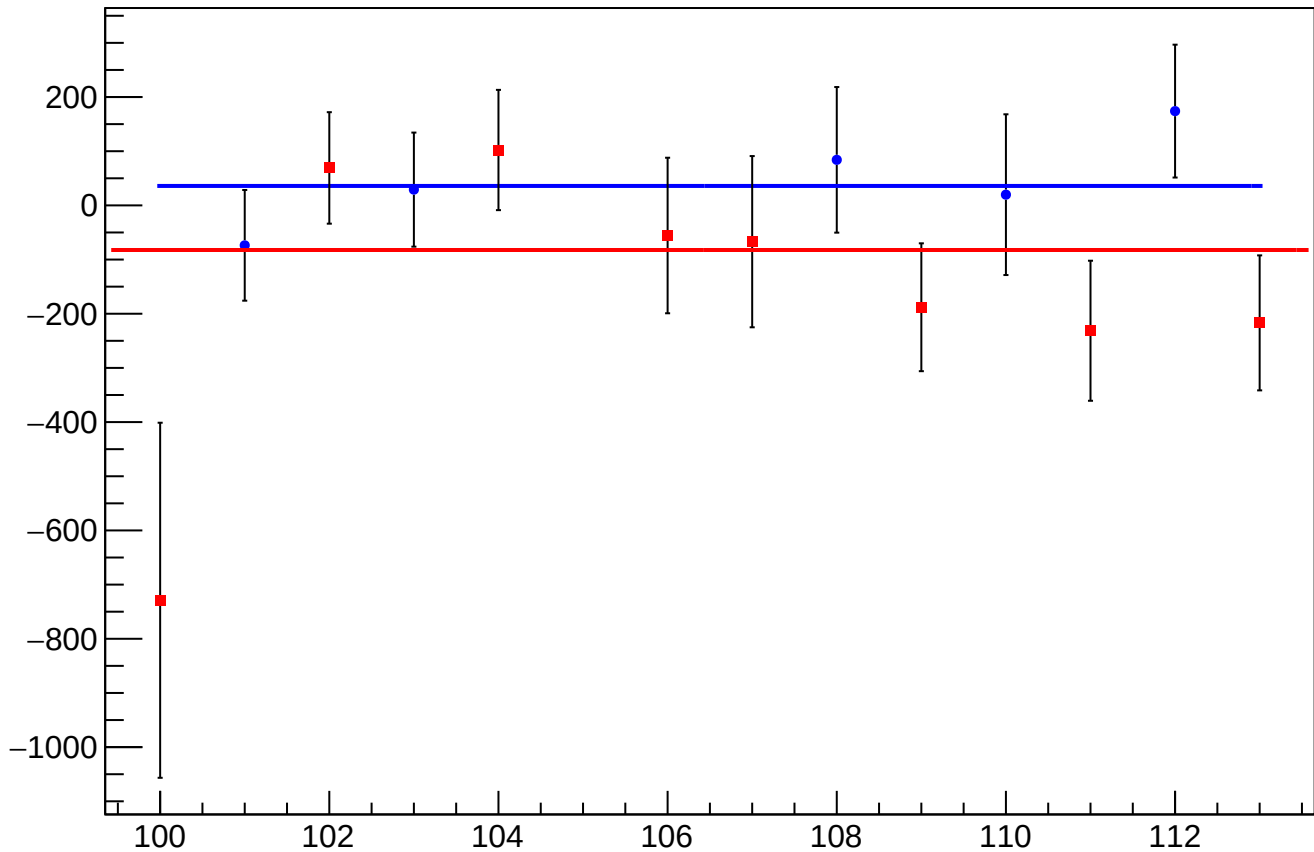
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 563.197 $\pm$ 0.170  $\chi^2$ /NDF: 304029.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam5\_mean vs Slug



Right In: 35.894+/-53.197  $\chi^2/\text{NDF}$ : 2.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -82.350+/-46.149  $\chi^2/\text{NDF}$ : 12.2/7

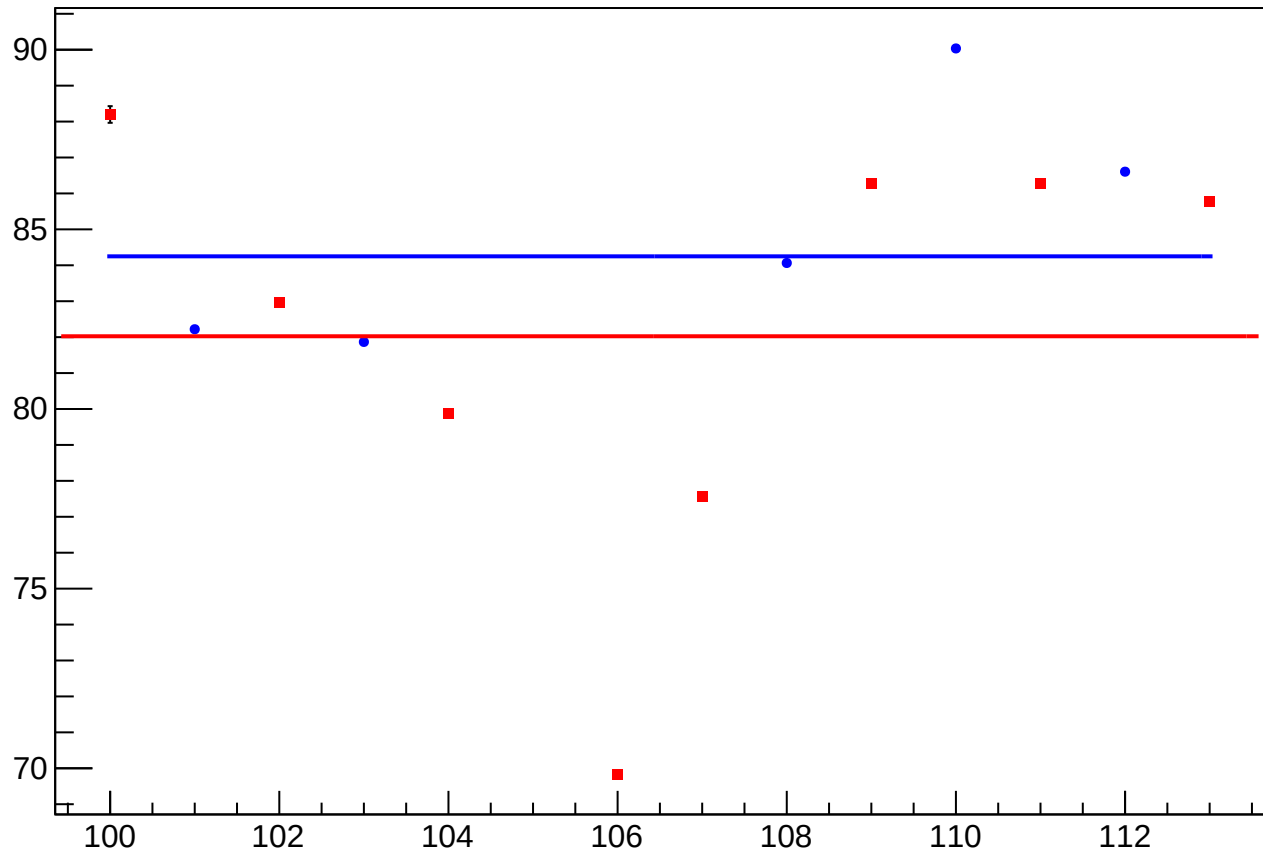
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -31.575+/-34.860  $\chi^2/\text{NDF}$ : 17.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam5\_rms vs Slug



Right In: 84.249 $\pm$ 0.038  $\chi^2$ /NDF: 5598.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 82.024 $\pm$ 0.033  $\chi^2$ /NDF: 24185.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

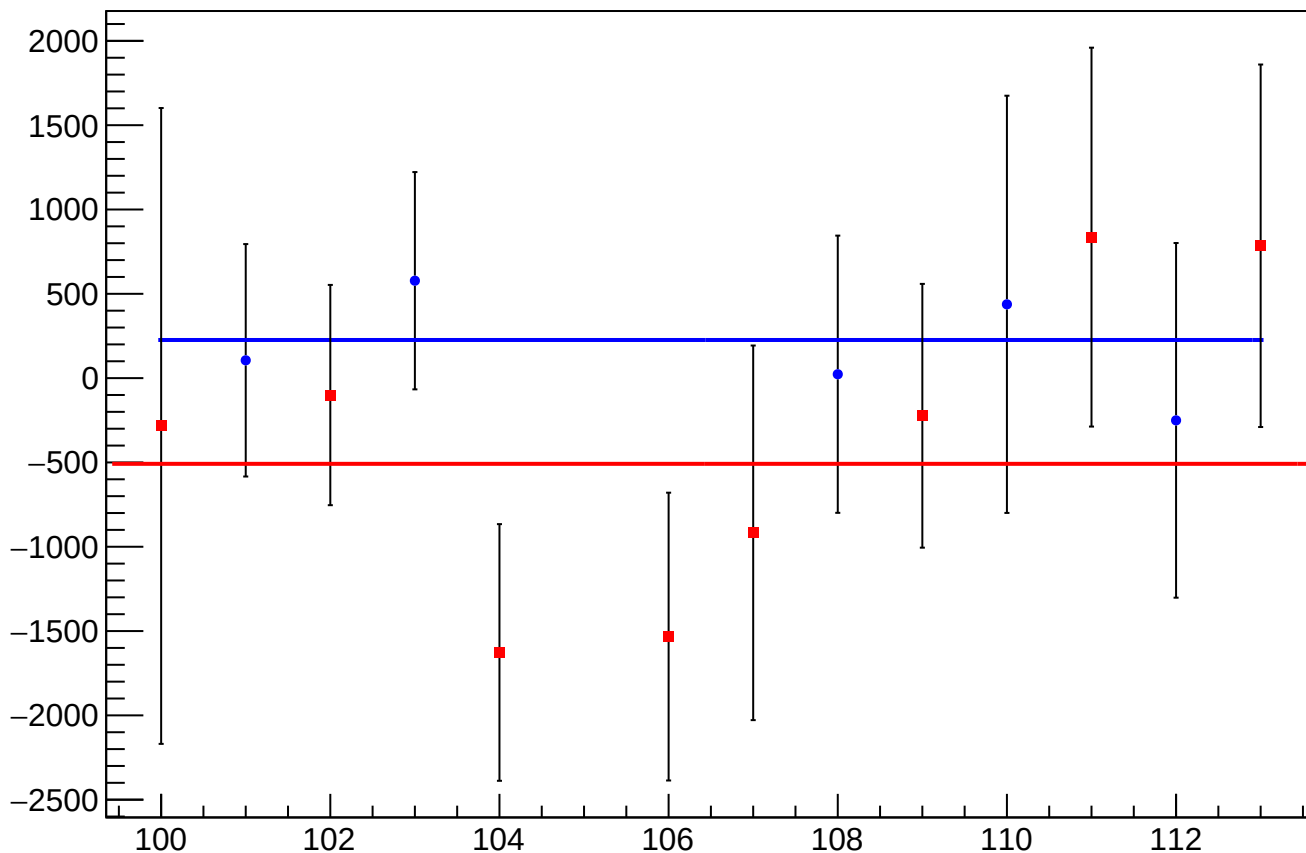
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 82.980 $\pm$ 0.025  $\chi^2$ /NDF: 31779.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam5\_eigen\_cor\_correction\_mean vs Slug



Right In: 226.167+/-363.900  $\chi^2/\text{NDF}$ : 0.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -508.280+/-318.987  $\chi^2/\text{NDF}$ : 7.2/7

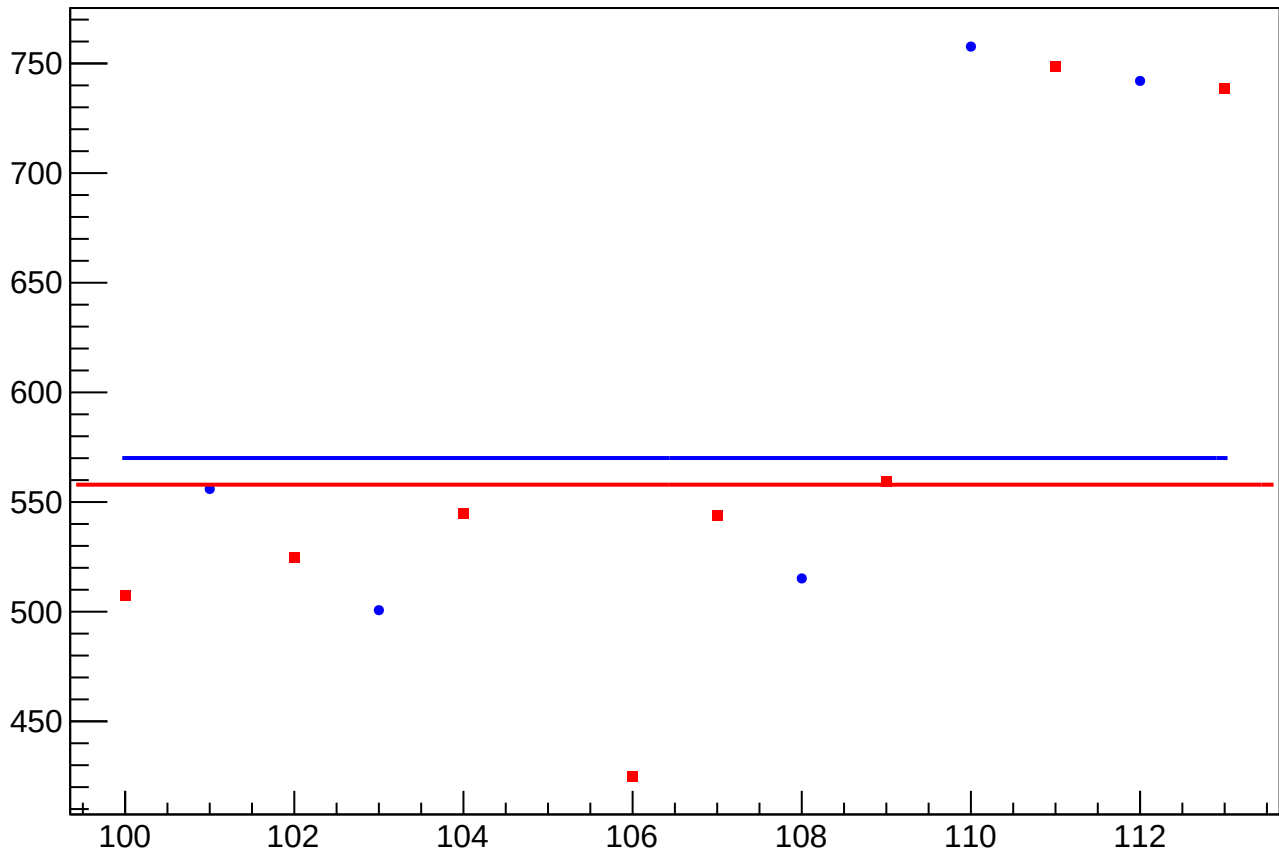
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -189.153+/-239.874  $\chi^2/\text{NDF}$ : 10.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_eigen\_cor\_correction\_rms vs Slug



Right In: 570.071 $\pm$ 0.257  $\chi^2$ /NDF: 132426.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 557.916 $\pm$ 0.226  $\chi^2$ /NDF: 170341.6/7

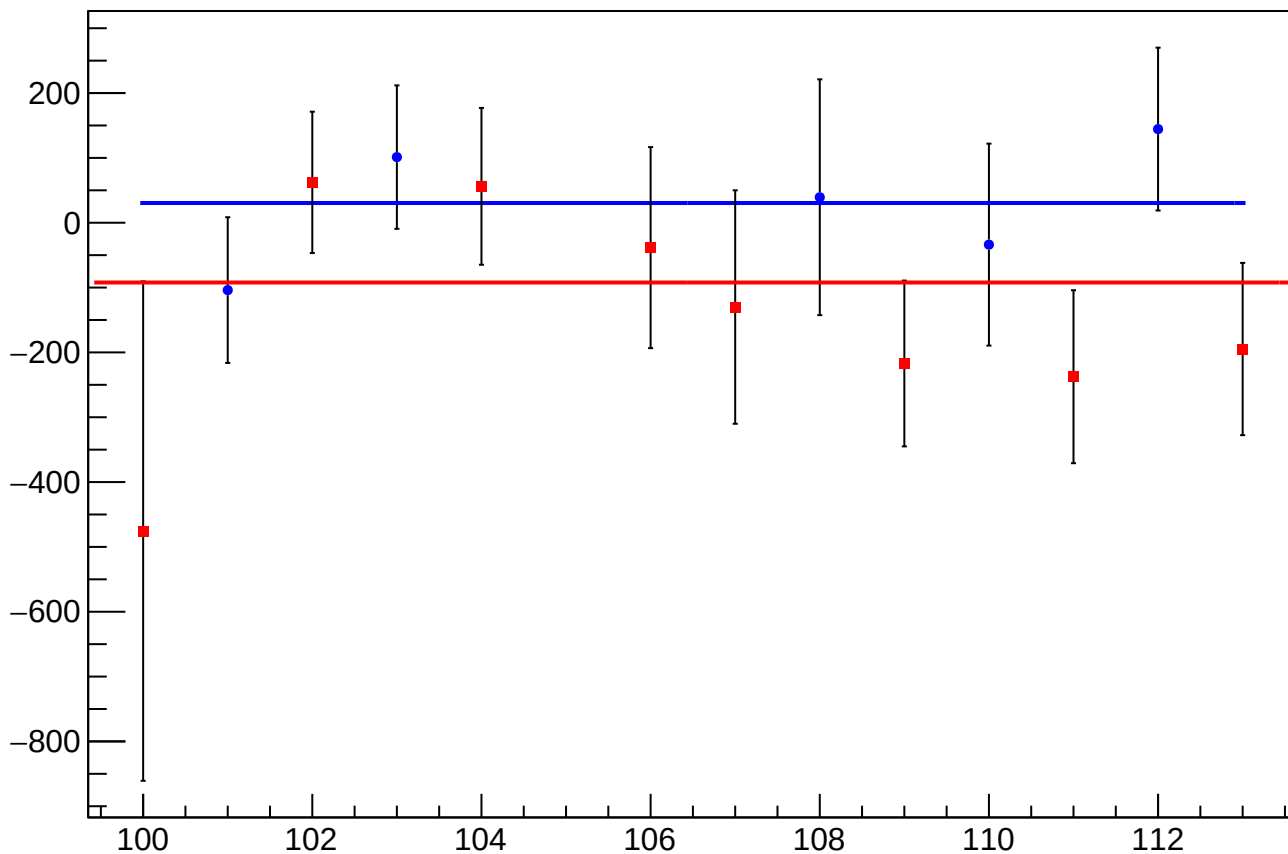
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 563.197 $\pm$ 0.170  $\chi^2$ /NDF: 304029.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam5\_mean vs Slug



Right In: 30.429+/-58.146  $\chi^2/\text{NDF}$ : 2.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -92.180+/-49.647  $\chi^2/\text{NDF}$ : 7.4/7

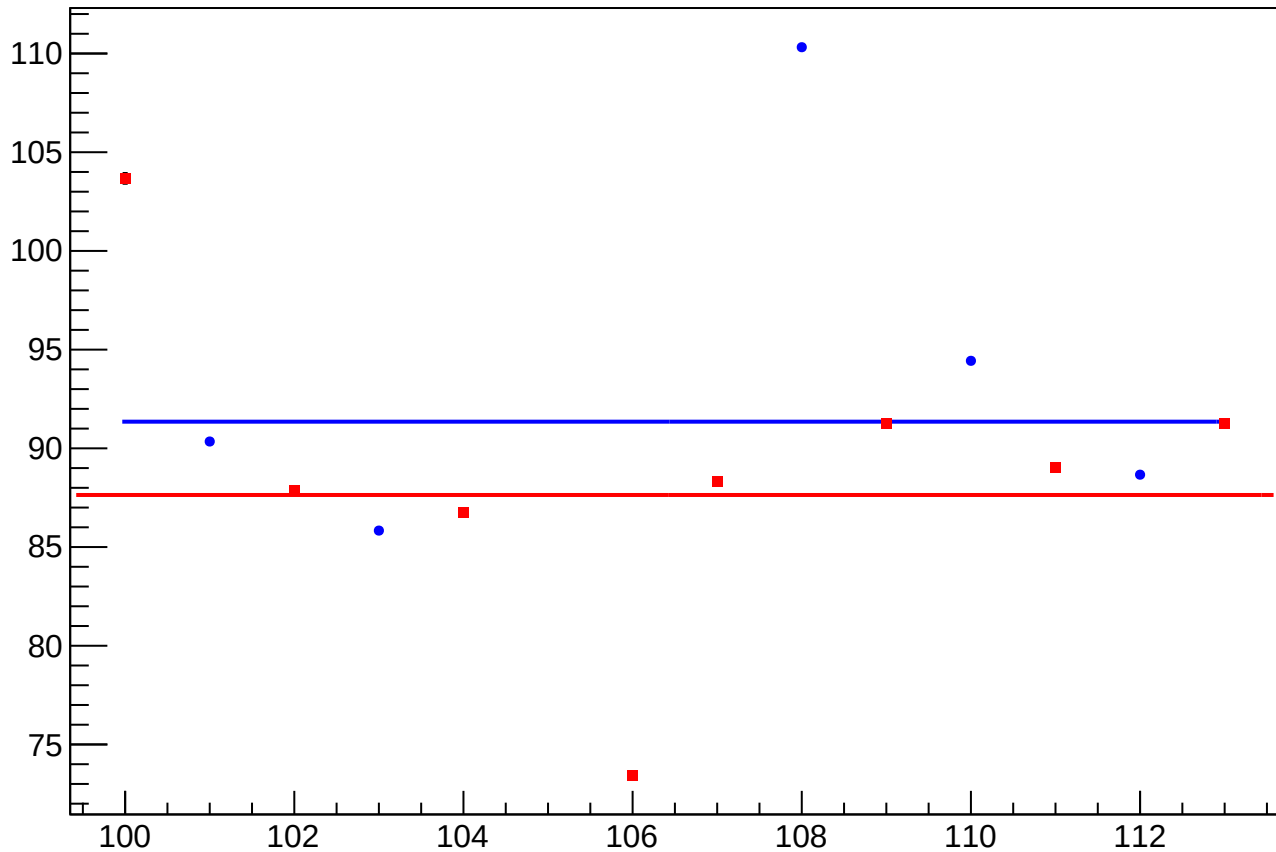
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -40.484+/-37.756  $\chi^2/\text{NDF}$ : 12.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam5\_rms vs Slug



Right In: 91.351 $\pm$ 0.041  $\chi^2$ /NDF: 28590.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 87.637 $\pm$ 0.035  $\chi^2$ /NDF: 23706.6/7

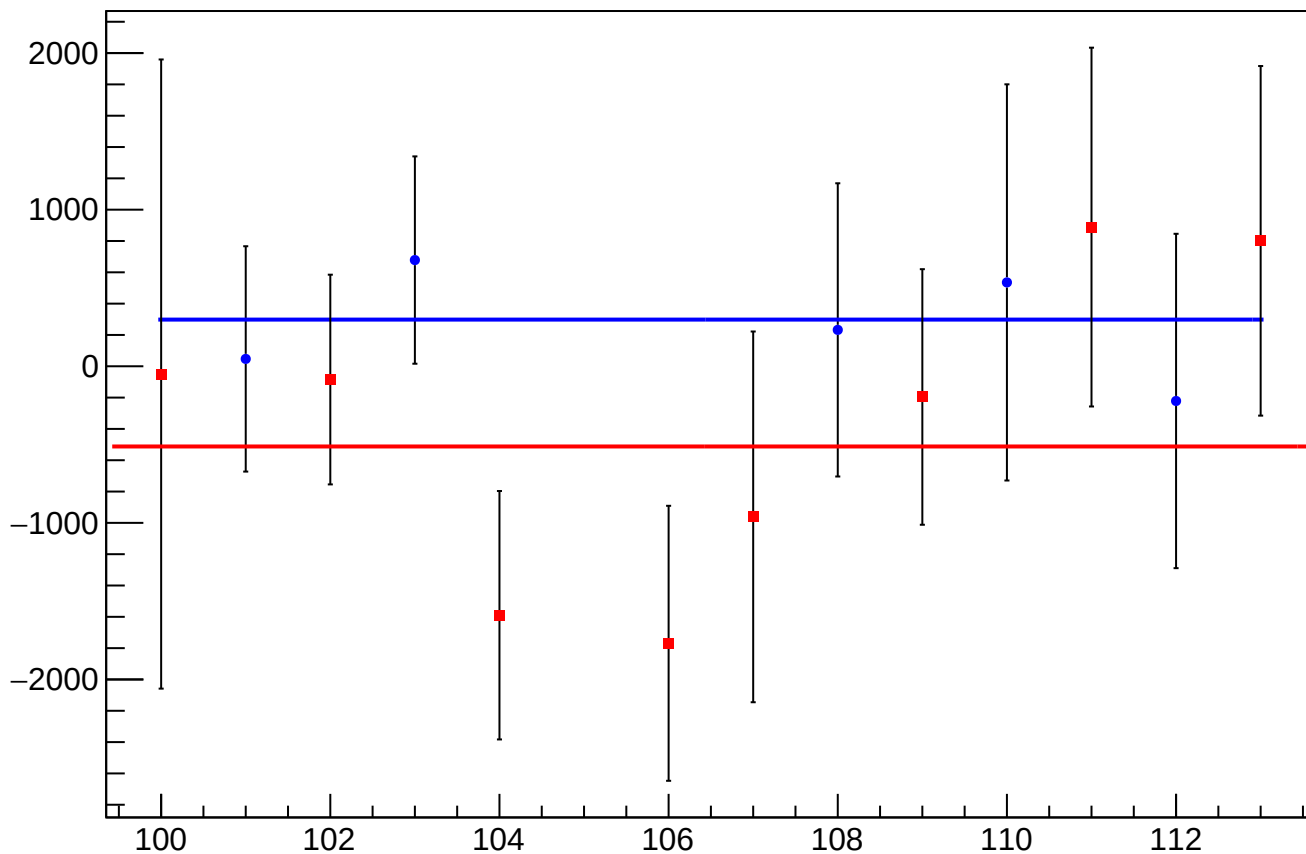
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.203 $\pm$ 0.027  $\chi^2$ /NDF: 57015.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_dit\_correction\_mean vs Slug



Right In: 298.076+/-381.888  $\chi^2/\text{NDF}$ : 0.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -512.169+/-330.694  $\chi^2/\text{NDF}$ : 7.5/7

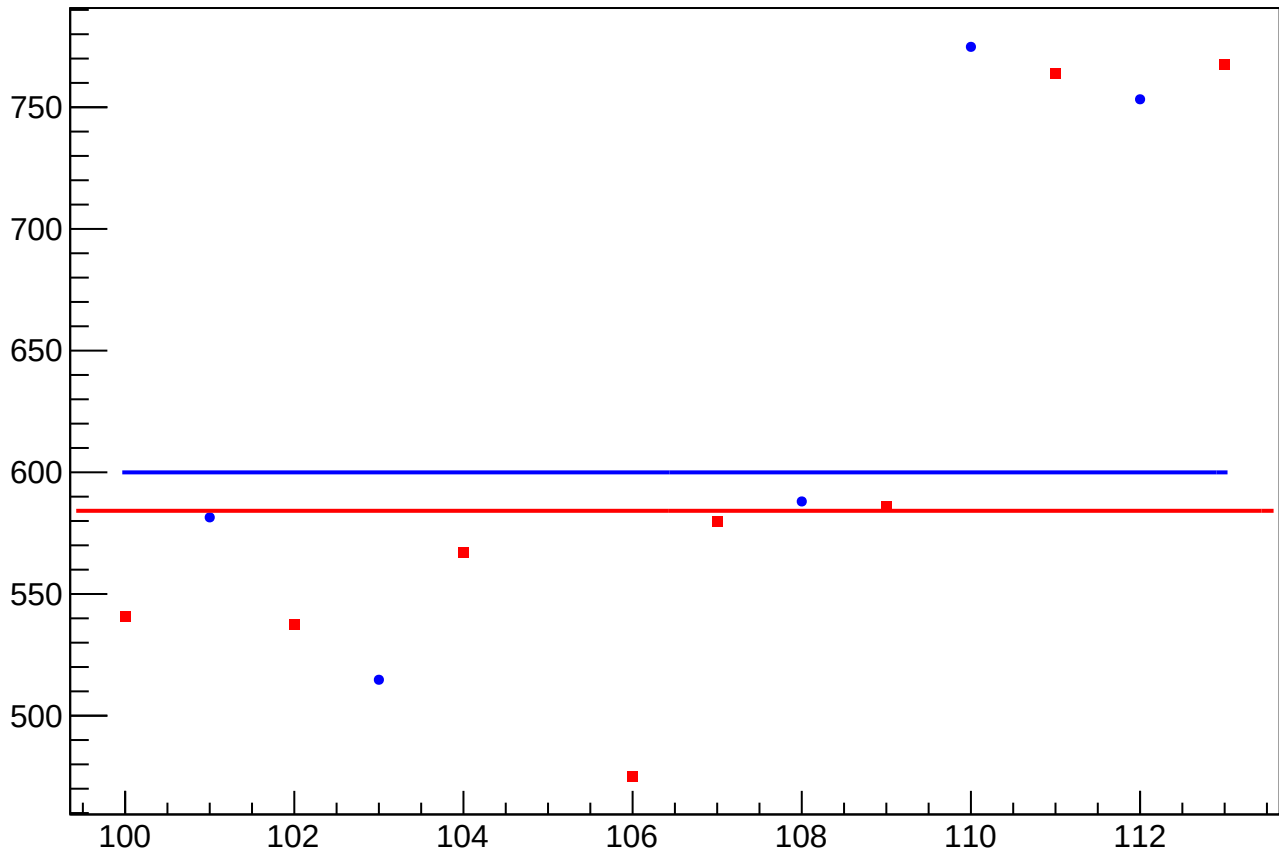
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -164.959+/-249.991  $\chi^2/\text{NDF}$ : 10.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_dit\_correction\_rms vs Slug



Right In: 599.973 $\pm$ 0.270  $\chi^2$ /NDF: 114231.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 584.185 $\pm$ 0.234  $\chi^2$ /NDF: 145836.3/7

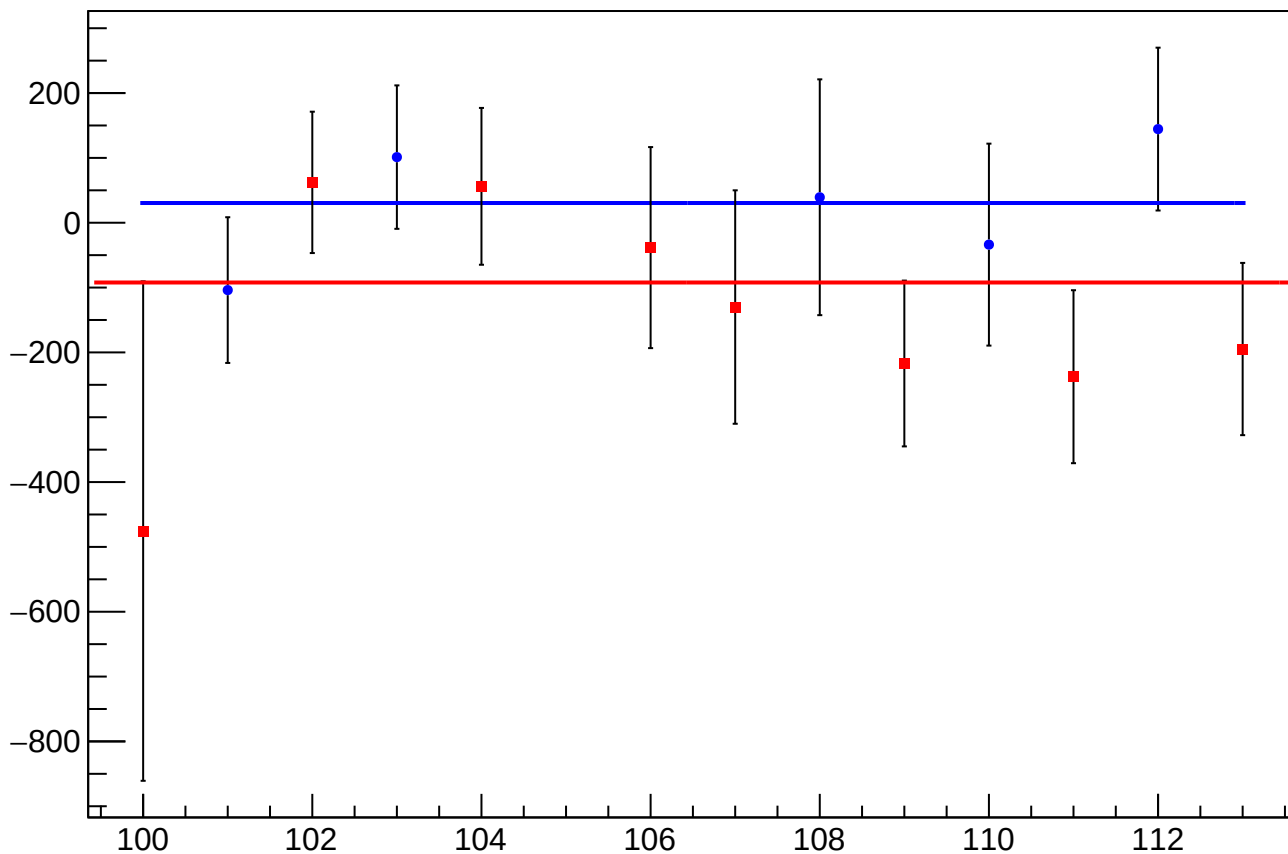
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 590.950 $\pm$ 0.177  $\chi^2$ /NDF: 262021.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam5\_mean vs Slug



Right In: 30.427+/-58.146  $\chi^2/\text{NDF}$ : 2.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -92.181+/-49.646  $\chi^2/\text{NDF}$ : 7.4/7

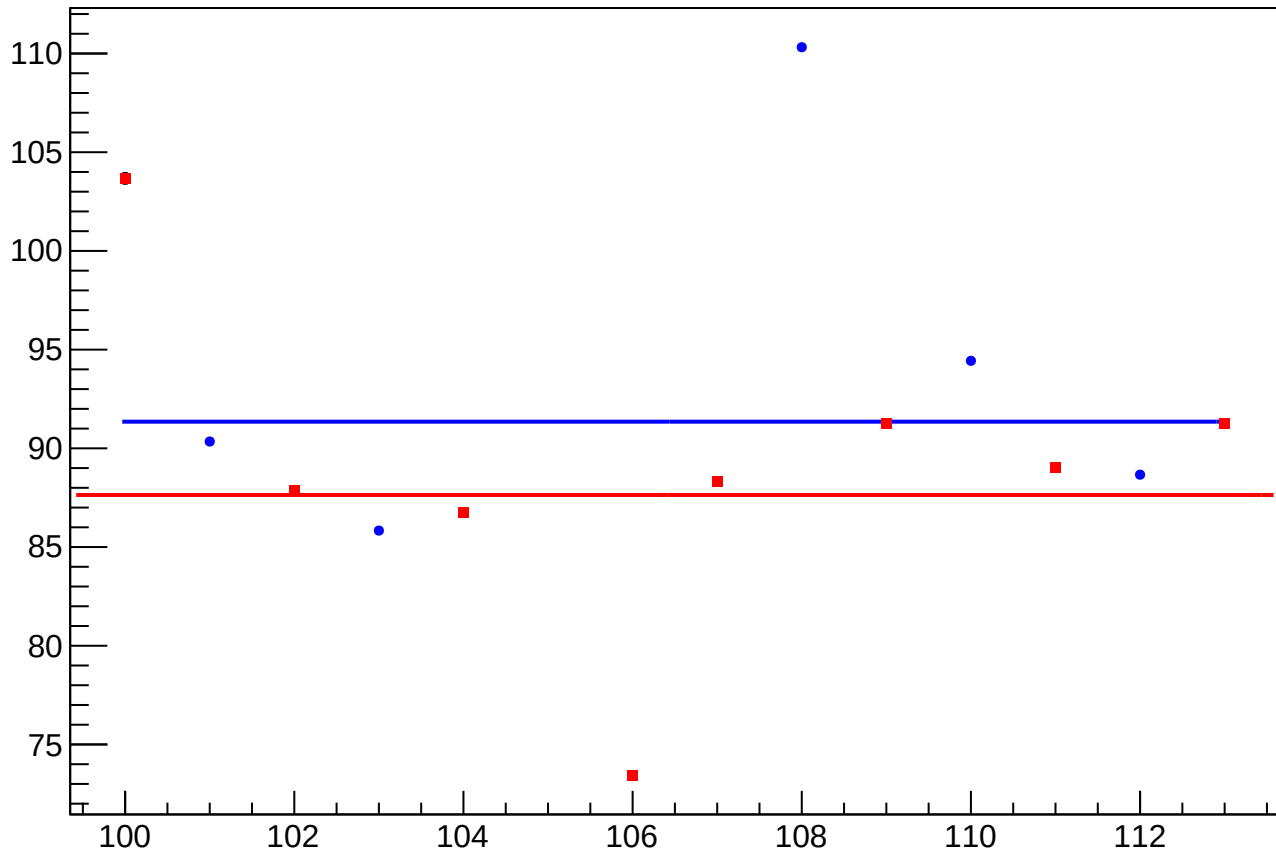
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -40.485+/-37.756  $\chi^2/\text{NDF}$ : 12.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam5\_rms vs Slug



Right In: 91.351 $\pm$ 0.041  $\chi^2$ /NDF: 28590.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 87.637 $\pm$ 0.035  $\chi^2$ /NDF: 23706.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

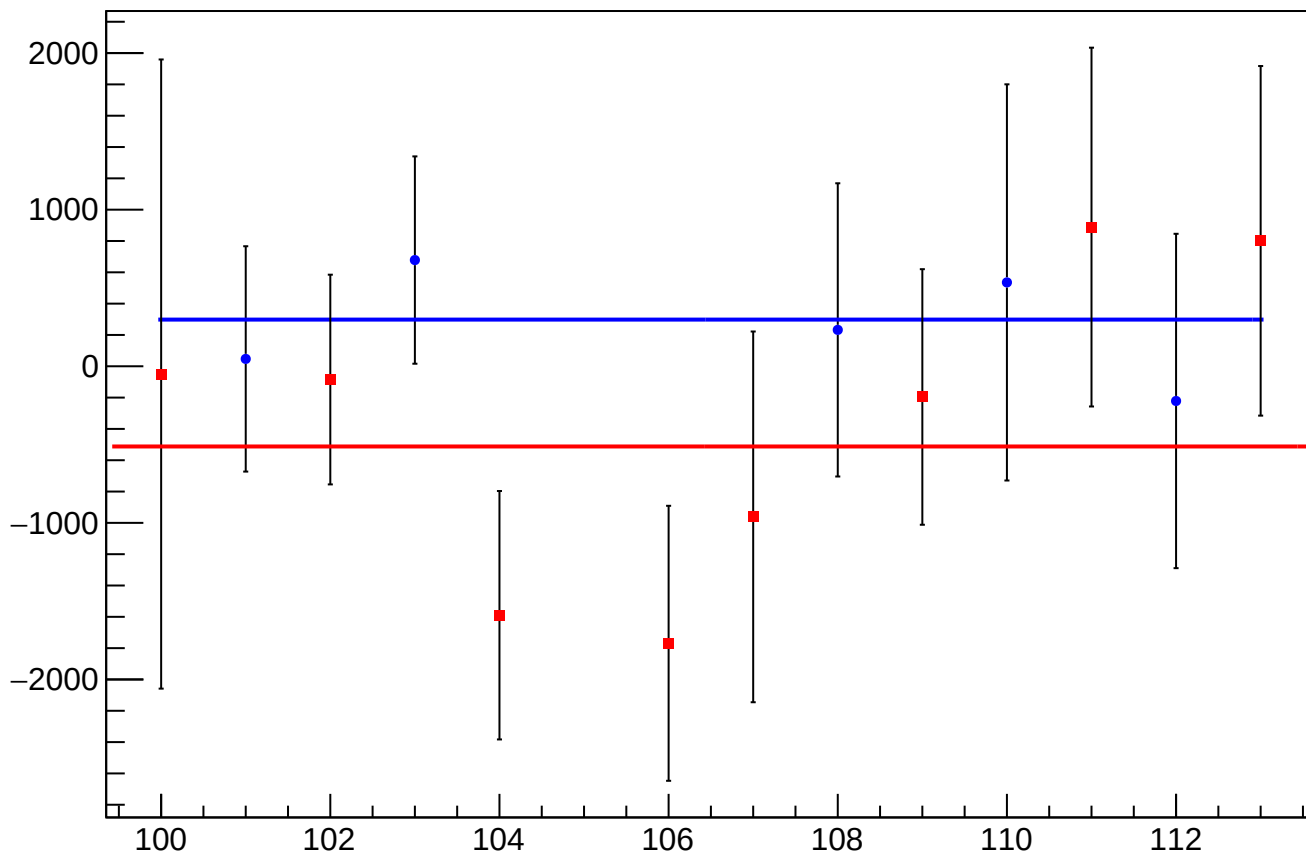
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.203 $\pm$ 0.027  $\chi^2$ /NDF: 57014.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam5\_eigen\_dit\_correction\_mean vs Slug



Right In: 298.074+/-381.888  $\chi^2/\text{NDF}$ : 0.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -512.169+/-330.693  $\chi^2/\text{NDF}$ : 7.5/7

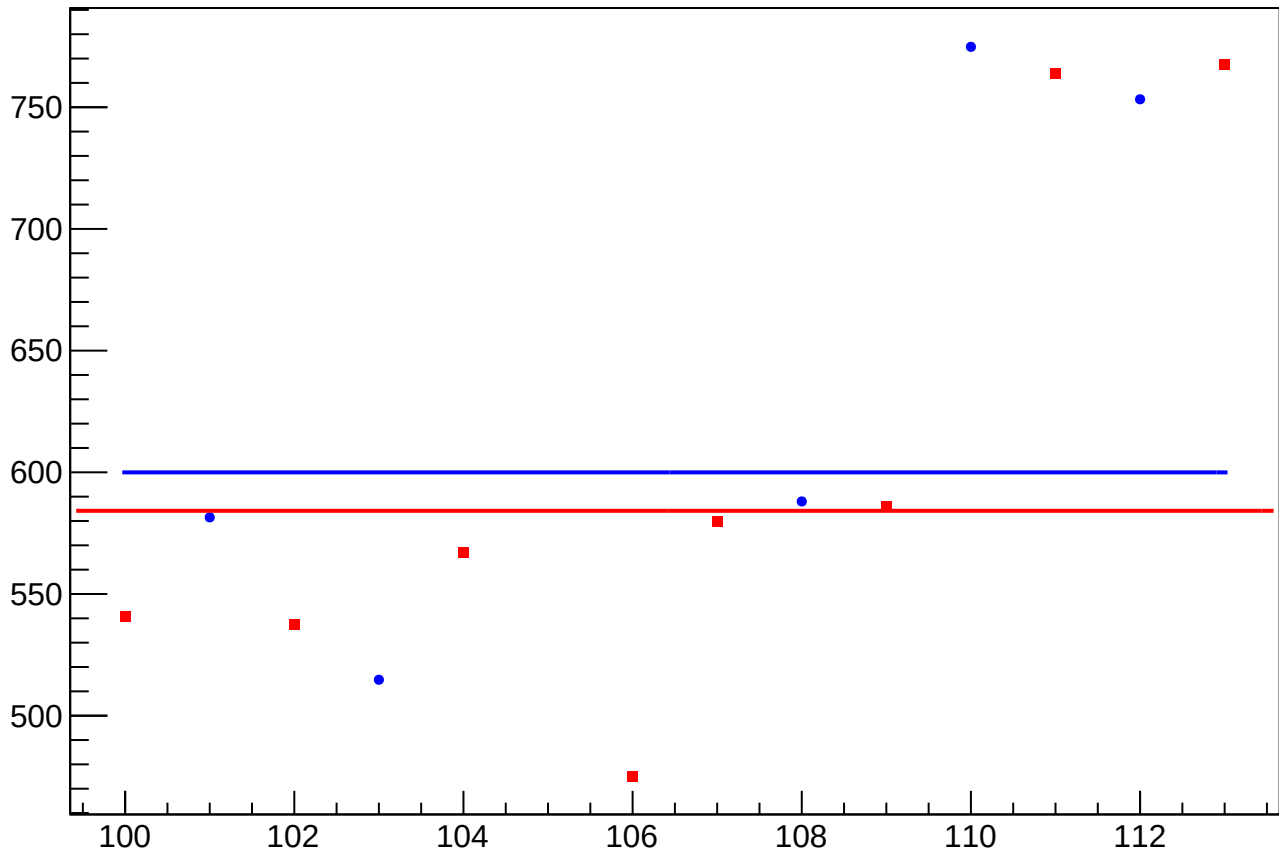
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -164.959+/-249.991  $\chi^2/\text{NDF}$ : 10.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_eigen\_dit\_correction\_rms vs Slug



Right In: 599.972 $\pm$ 0.270  $\chi^2$ /NDF: 114231.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 584.184 $\pm$ 0.234  $\chi^2$ /NDF: 145836.0/7

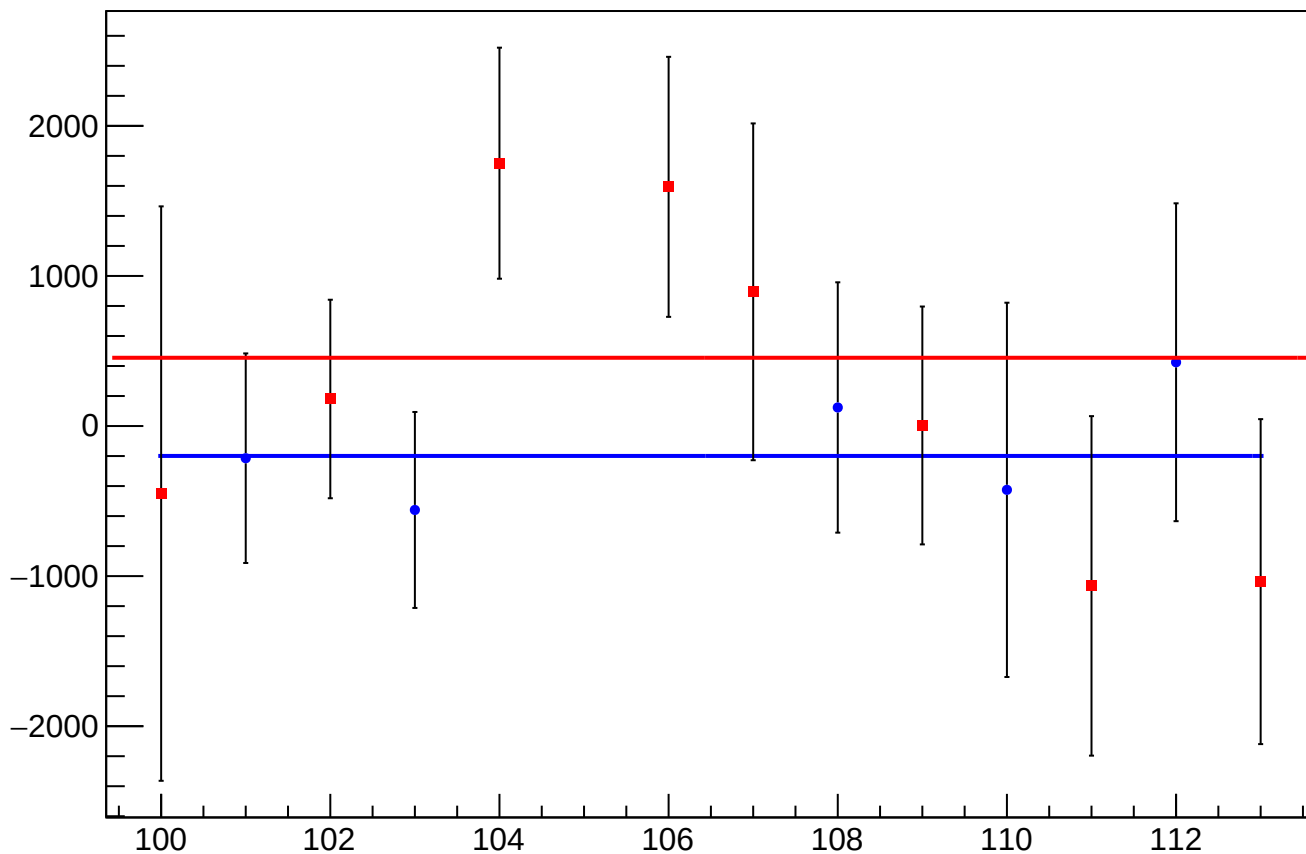
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 590.950 $\pm$ 0.177  $\chi^2$ /NDF: 262020.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_mean vs Slug



Right In: -199.245+/-368.360  $\chi^2/\text{NDF}$ : 0.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 454.896+/-322.744  $\chi^2/\text{NDF}$ : 9.1/7

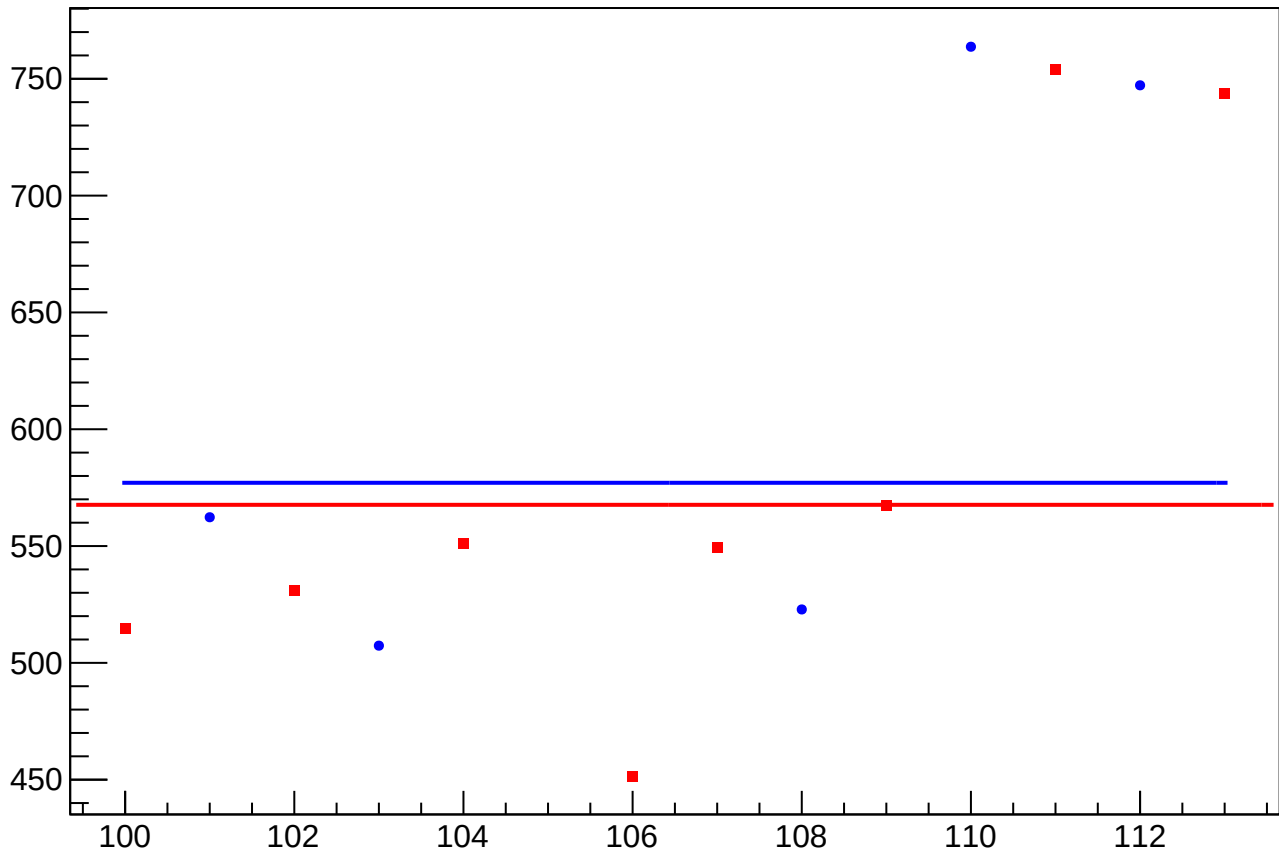
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 170.815+/-242.749  $\chi^2/\text{NDF}$ : 11.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_rms vs Slug



Right In: 577.082 $\pm$ 0.260  $\chi^2$ /NDF: 128579.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 567.649 $\pm$ 0.228  $\chi^2$ /NDF: 152250.6/7

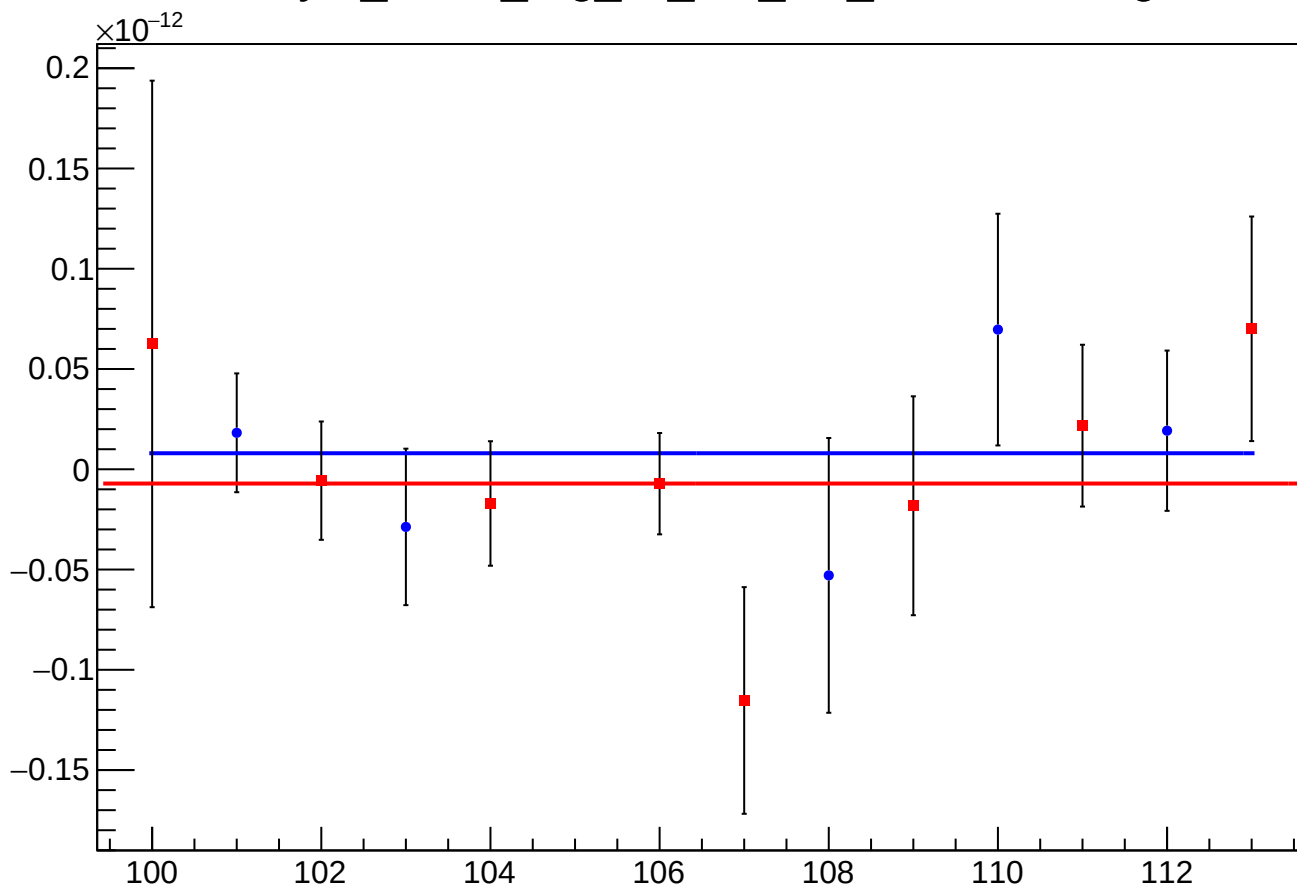
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 571.746 $\pm$ 0.172  $\chi^2$ /NDF: 281572.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.5/7

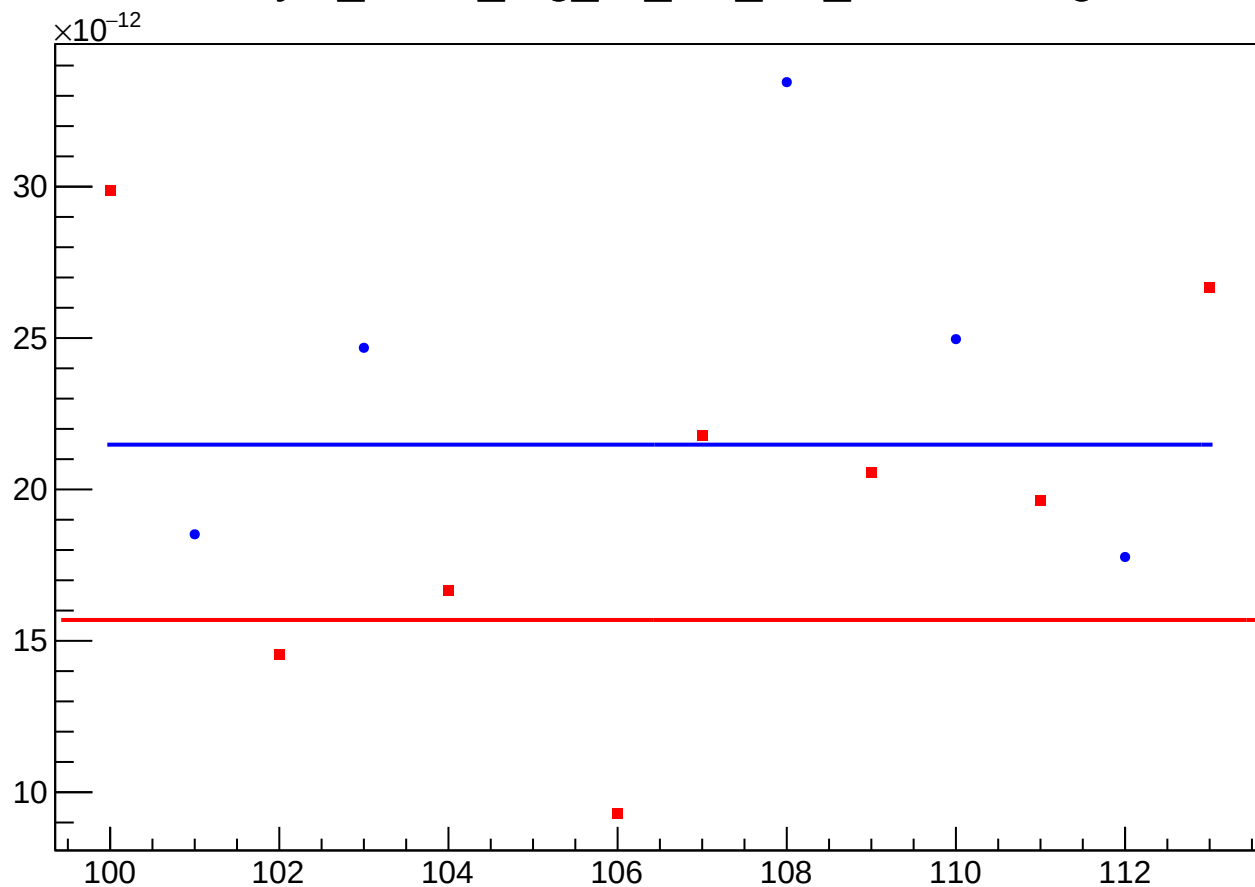
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 119006.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 291449.0/7

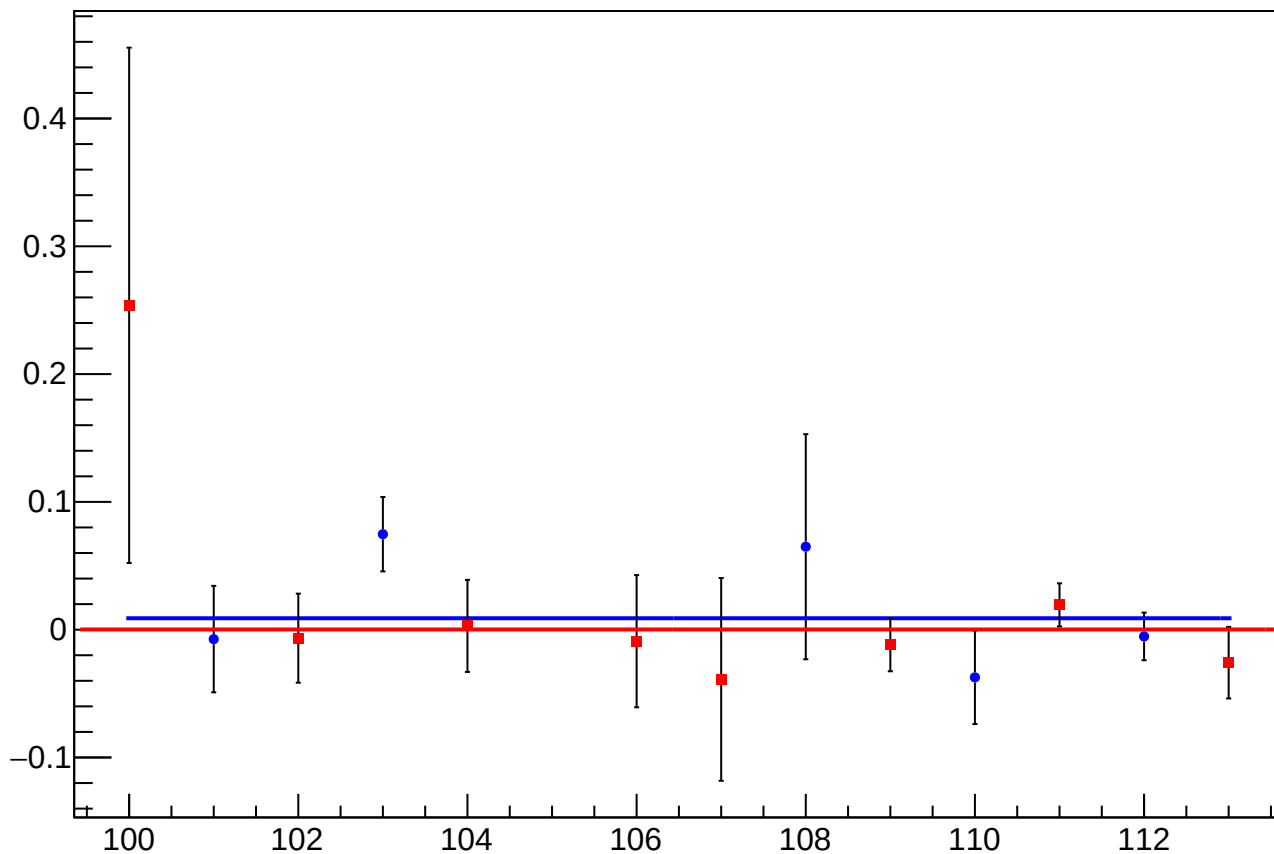
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 537891.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.013  $\chi^2$ /NDF: 7.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.010  $\chi^2$ /NDF: 4.4/7

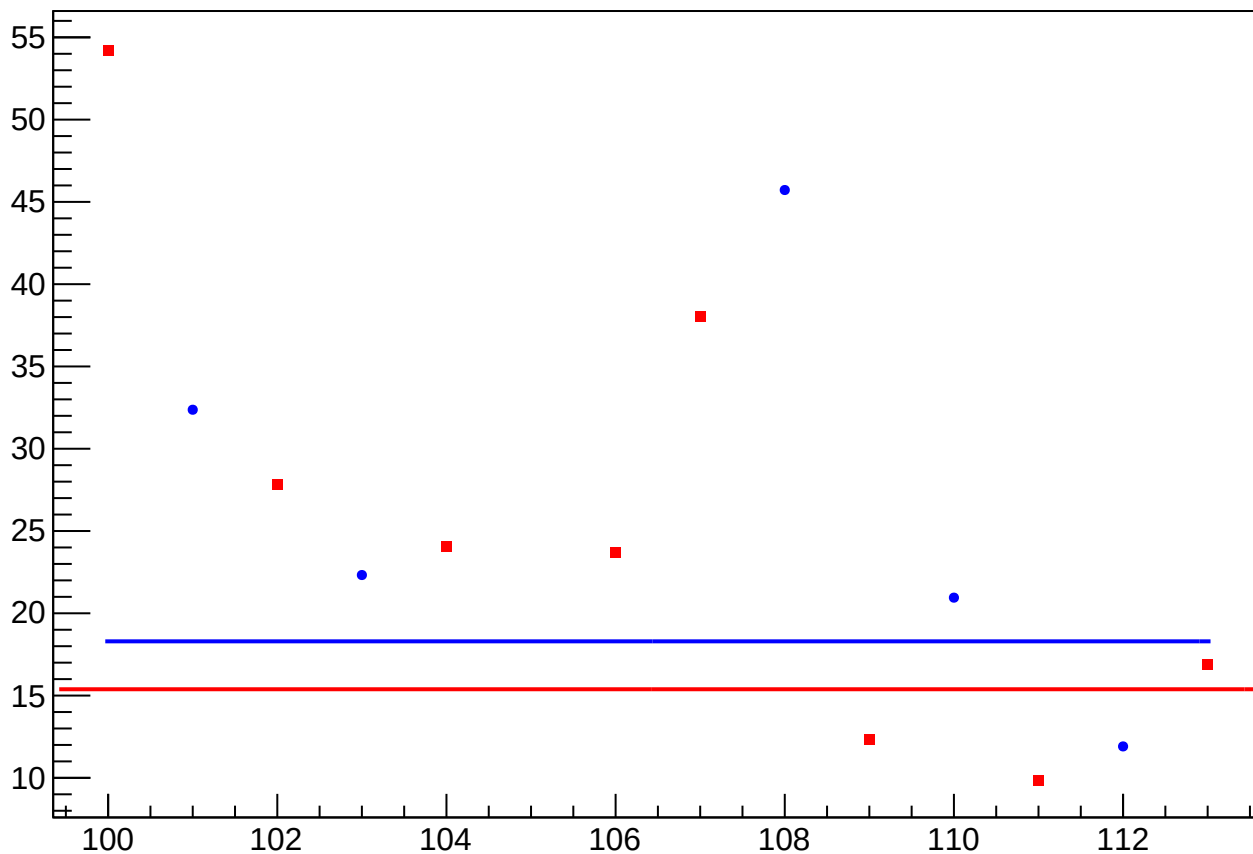
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.008  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 18.296+/-0.010  $\chi^2/\text{NDF}$ : 706056.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15.384+/-0.007  $\chi^2/\text{NDF}$ : 924953.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

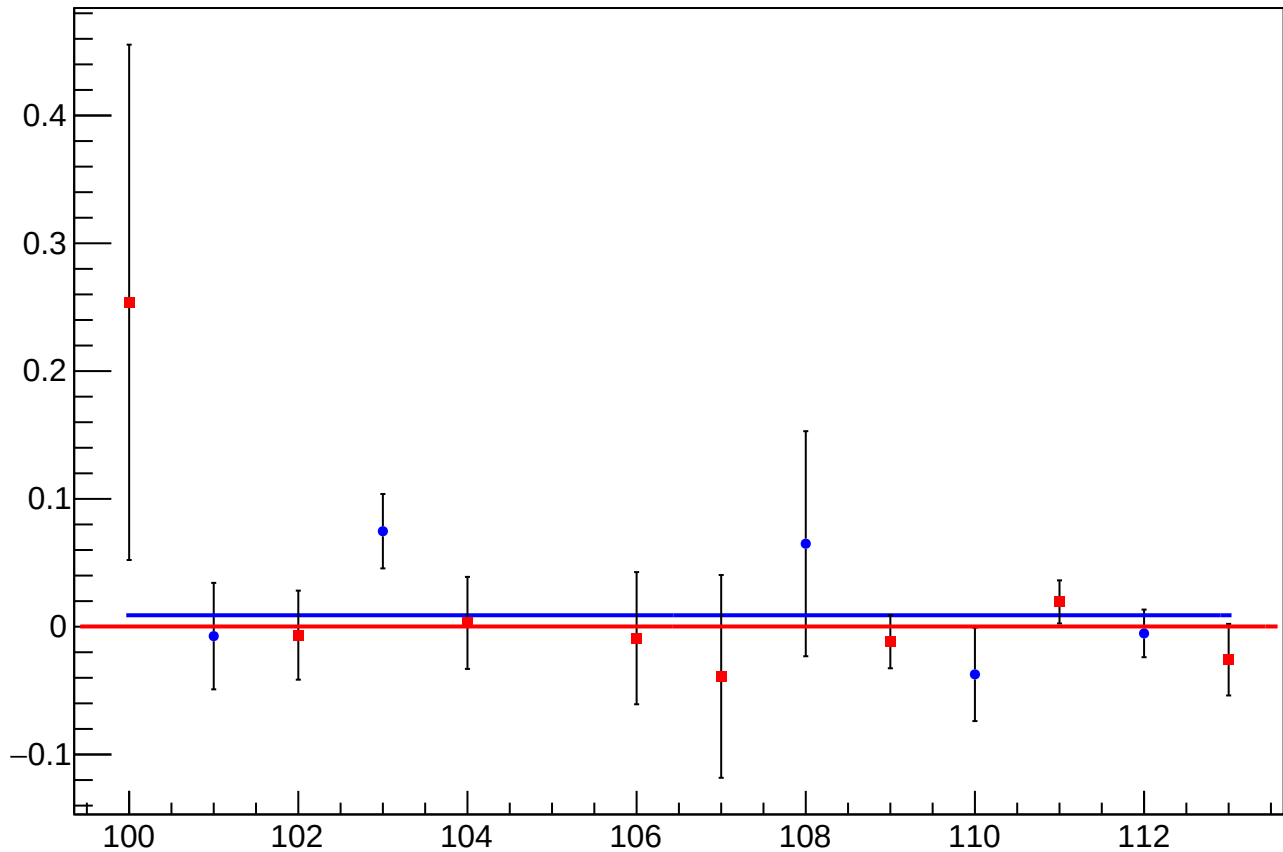
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.471+/-0.006  $\chi^2/\text{NDF}$ : 1689611.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam5\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.013  $\chi^2$ /NDF: 7.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.010  $\chi^2$ /NDF: 4.4/7

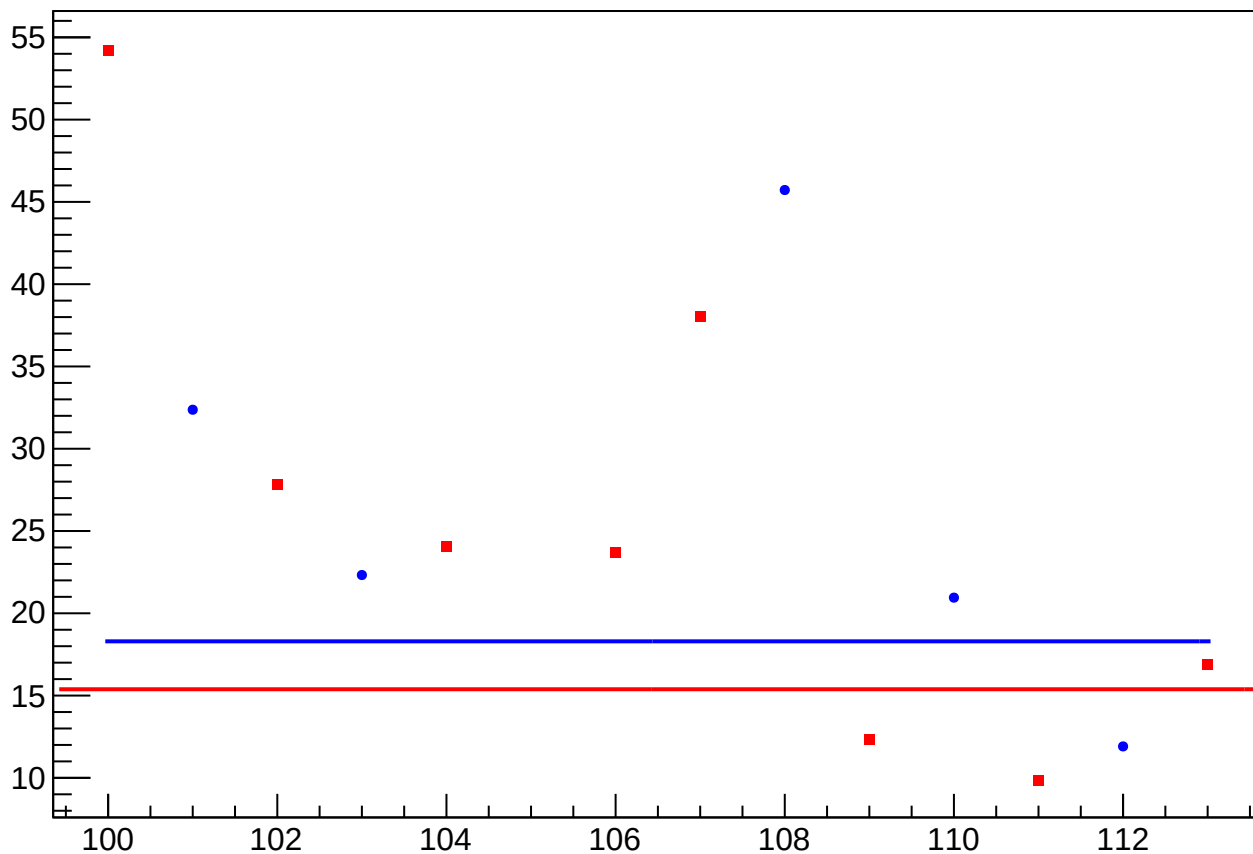
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.008  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 18.296+/-0.010  $\chi^2/\text{NDF}$ : 706056.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15.384+/-0.007  $\chi^2/\text{NDF}$ : 924953.4/7

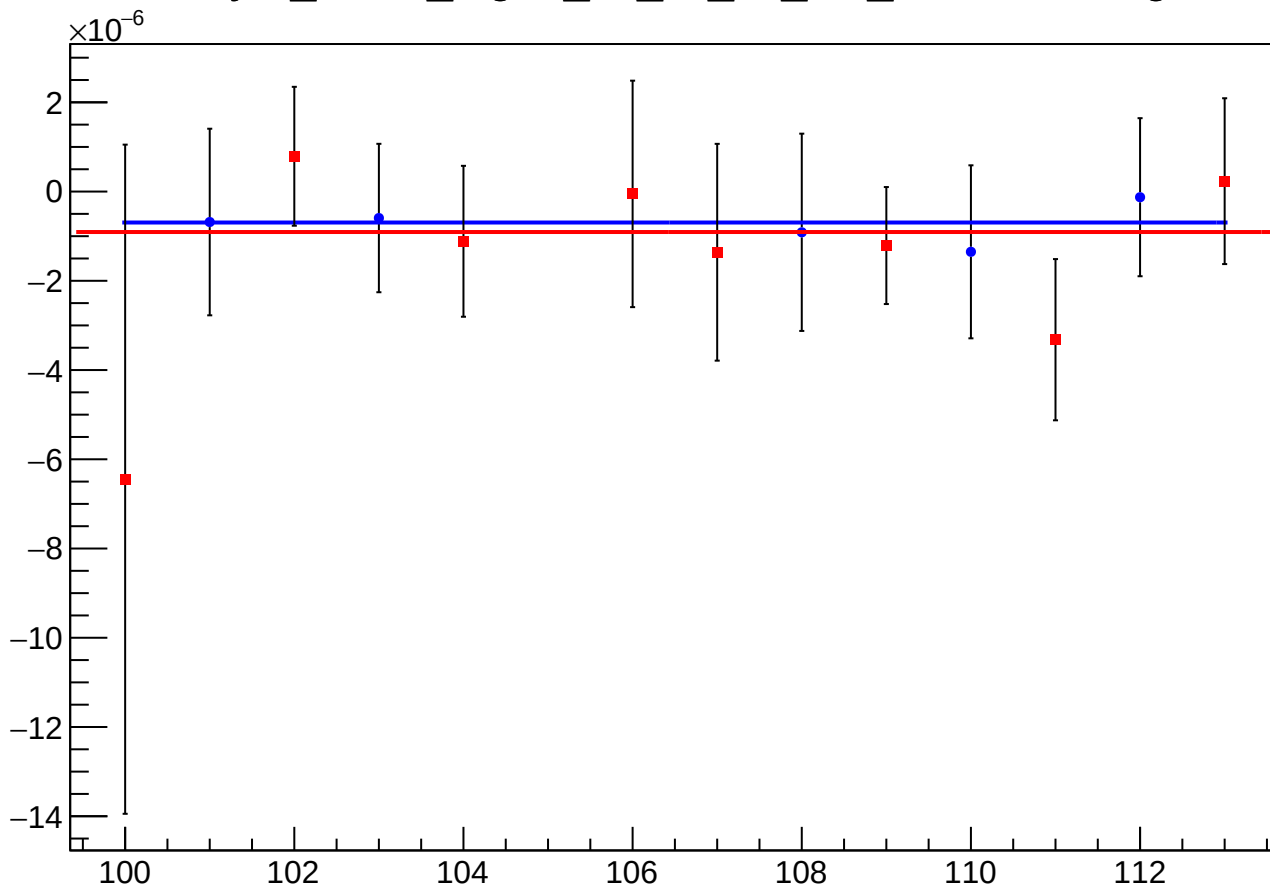
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.471+/-0.006  $\chi^2/\text{NDF}$ : 1689611.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 0.2/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 4.1/7

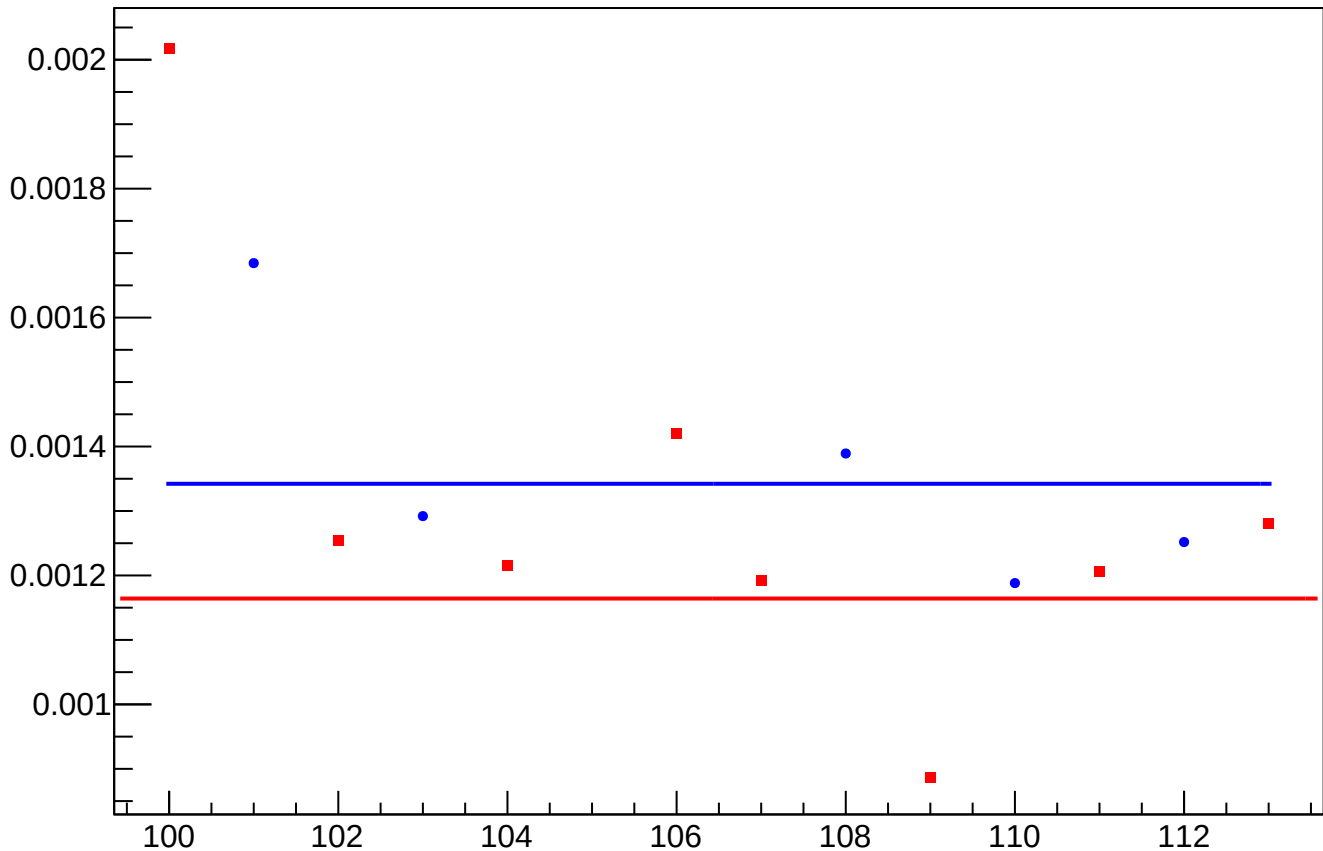
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 4.4/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 74138.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 153267.7/7

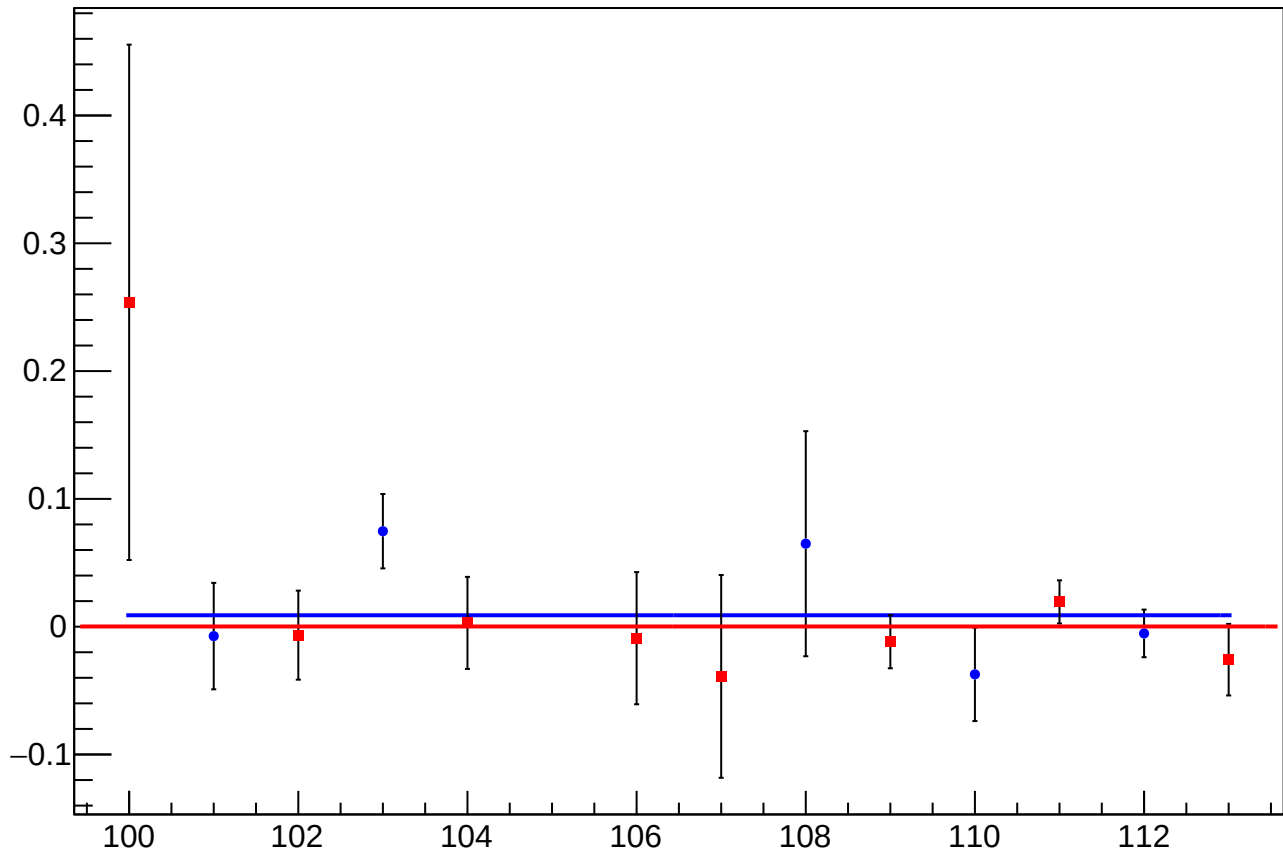
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 281900.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam5\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.013  $\chi^2$ /NDF: 7.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.010  $\chi^2$ /NDF: 4.4/7

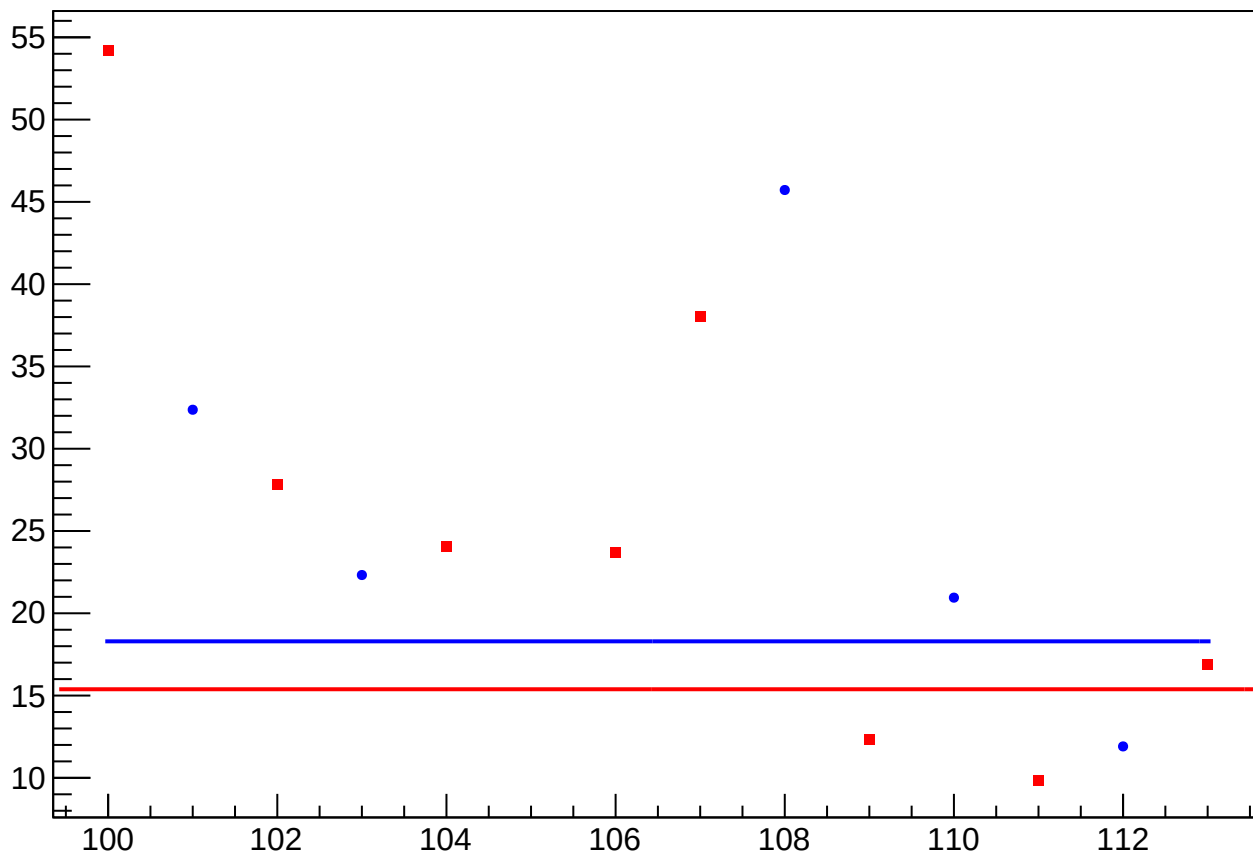
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.008  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 18.296+/-0.010  $\chi^2/\text{NDF}$ : 706044.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15.384+/-0.007  $\chi^2/\text{NDF}$ : 924983.7/7

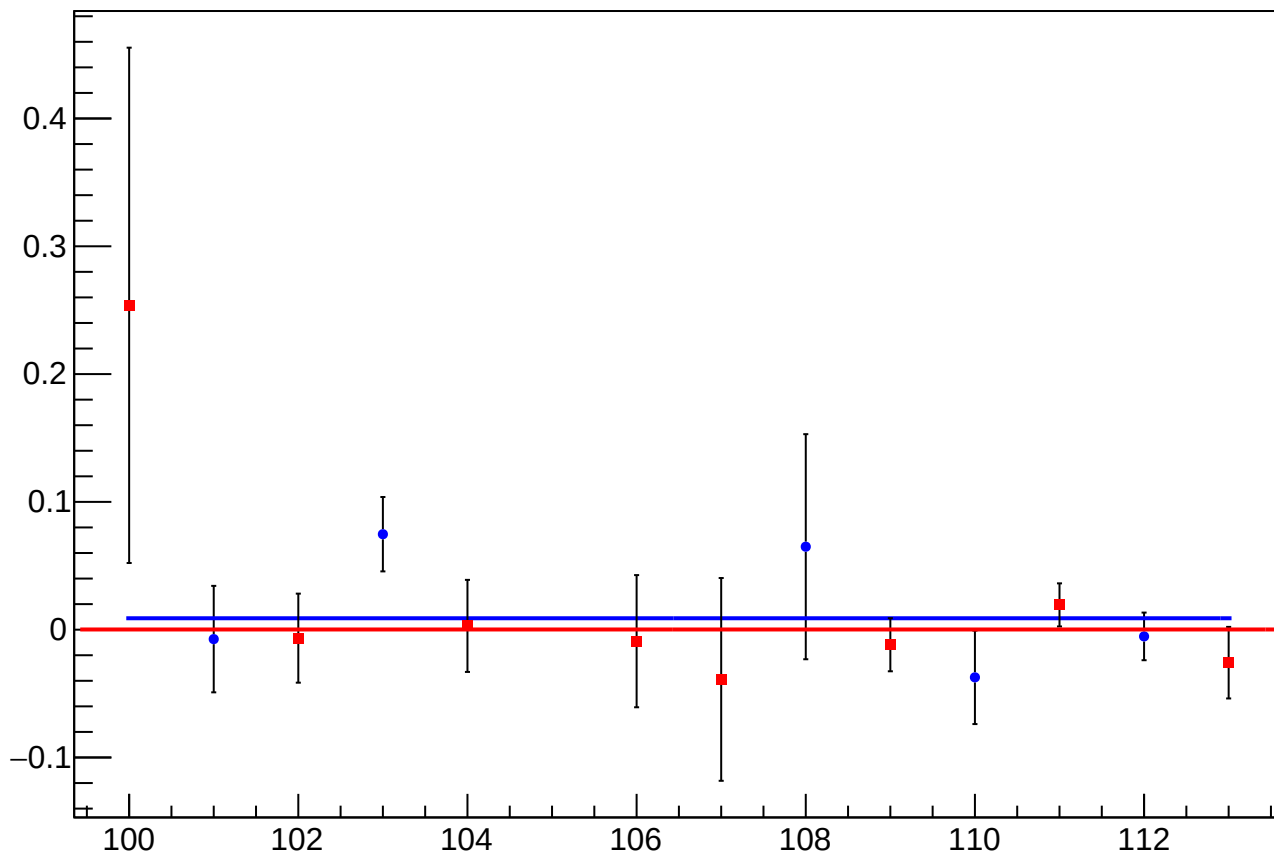
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.471+/-0.006  $\chi^2/\text{NDF}$ : 1689636.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam5\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.013  $\chi^2$ /NDF: 7.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.010  $\chi^2$ /NDF: 4.4/7

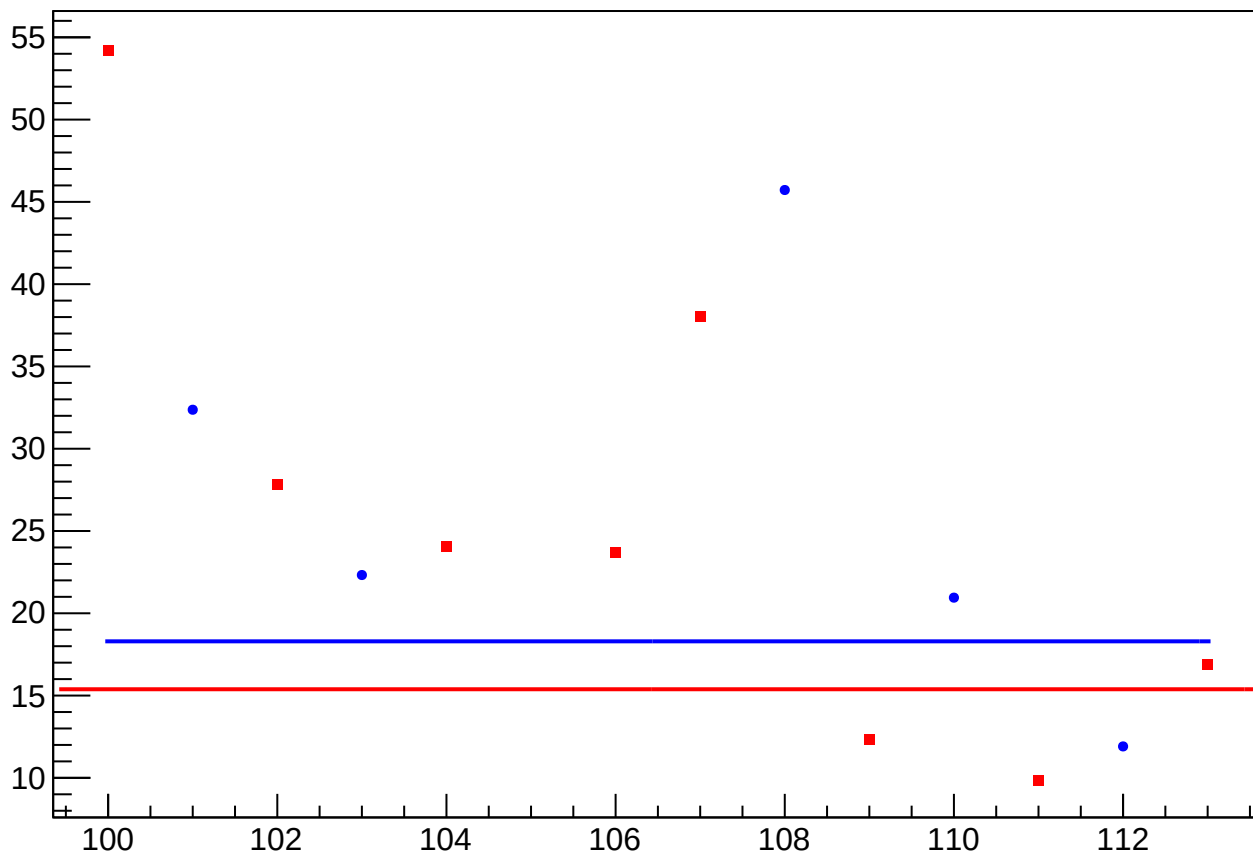
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.008  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam5\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 18.296+/-0.010  $\chi^2/\text{NDF}$ : 706044.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15.384+/-0.007  $\chi^2/\text{NDF}$ : 924983.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

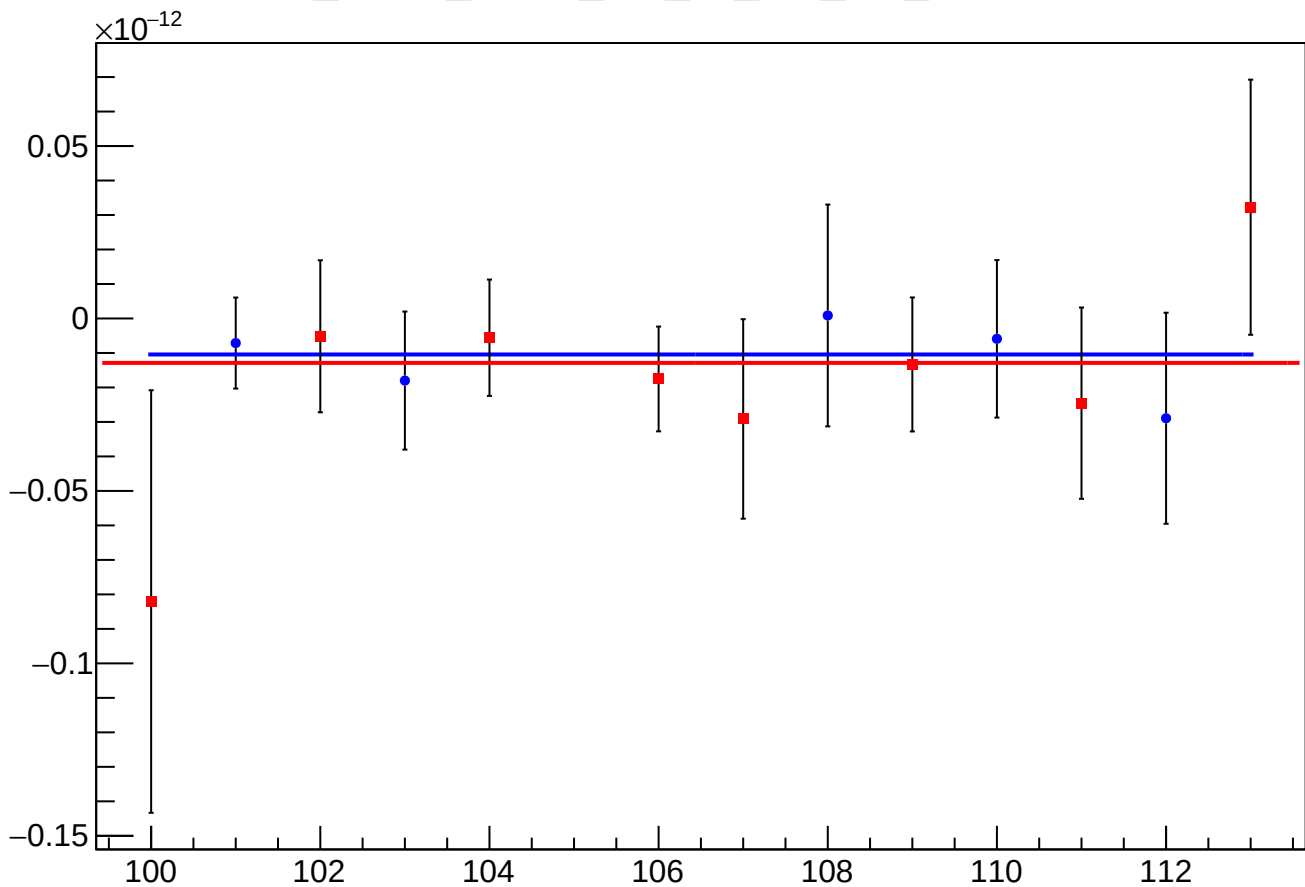
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.471+/-0.006  $\chi^2/\text{NDF}$ : 1689636.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam5\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 3.7/7

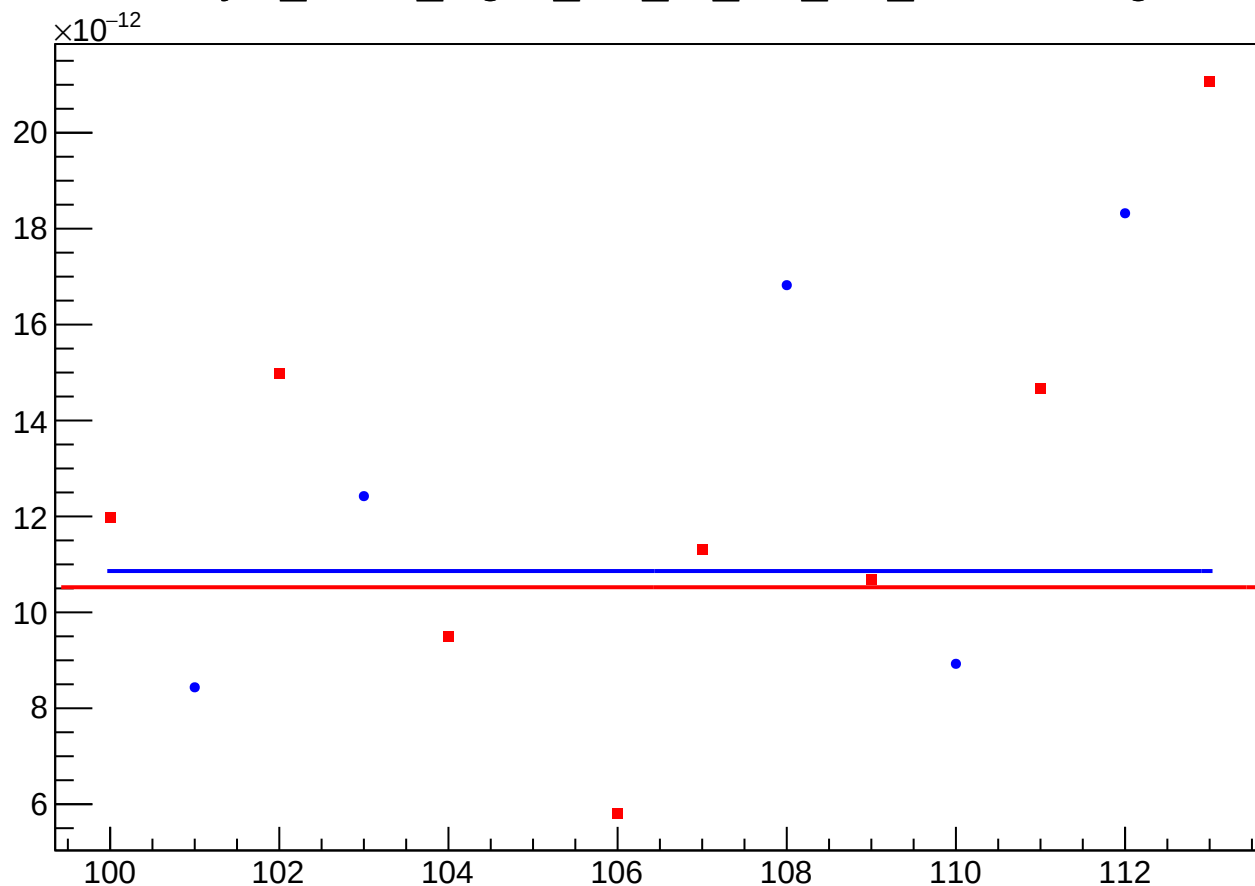
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 4.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 281629.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 490942.1/7

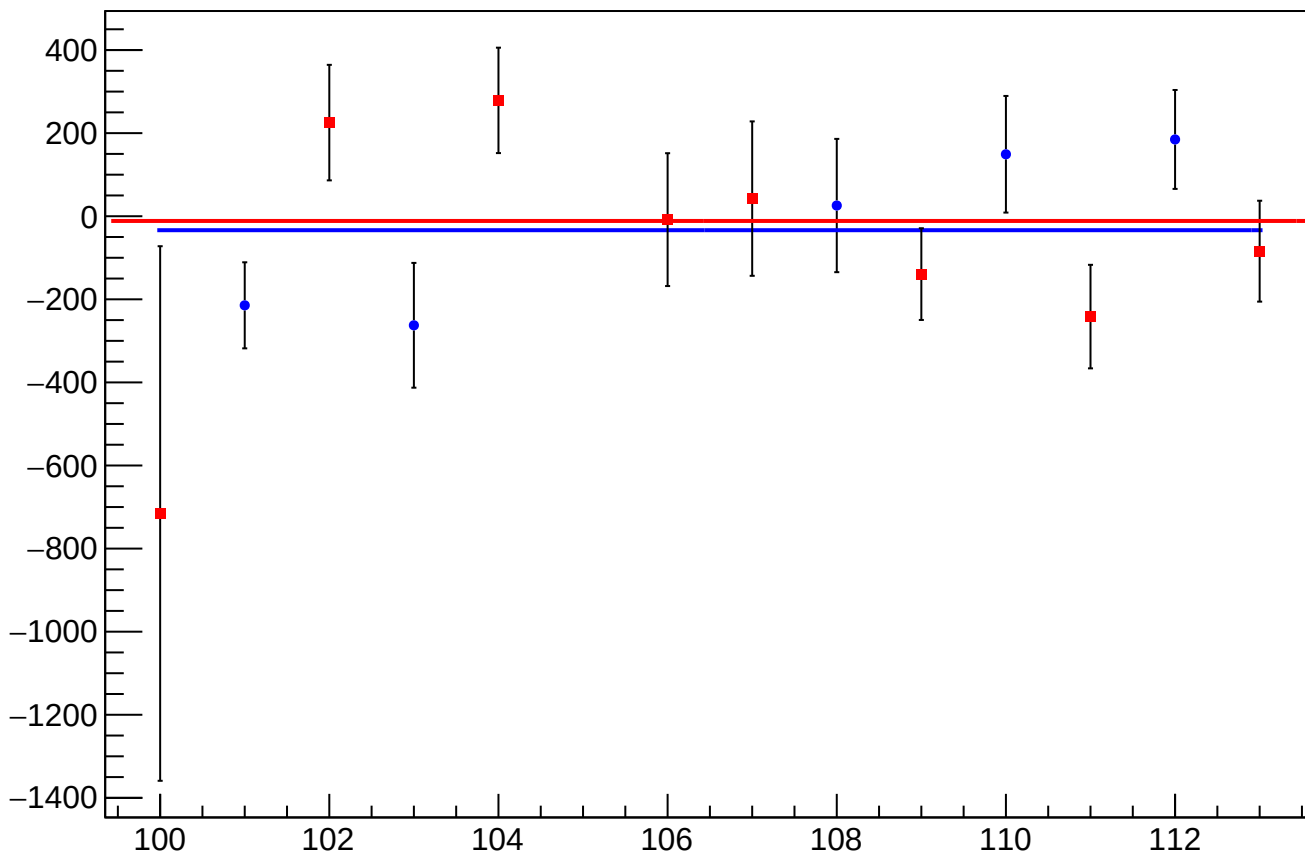
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 774153.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_mean vs Slug



Right In: -33.643+/-57.955  $\chi^2/\text{NDF}$ : 10.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11.383+/-50.086  $\chi^2/\text{NDF}$ : 14.5/7

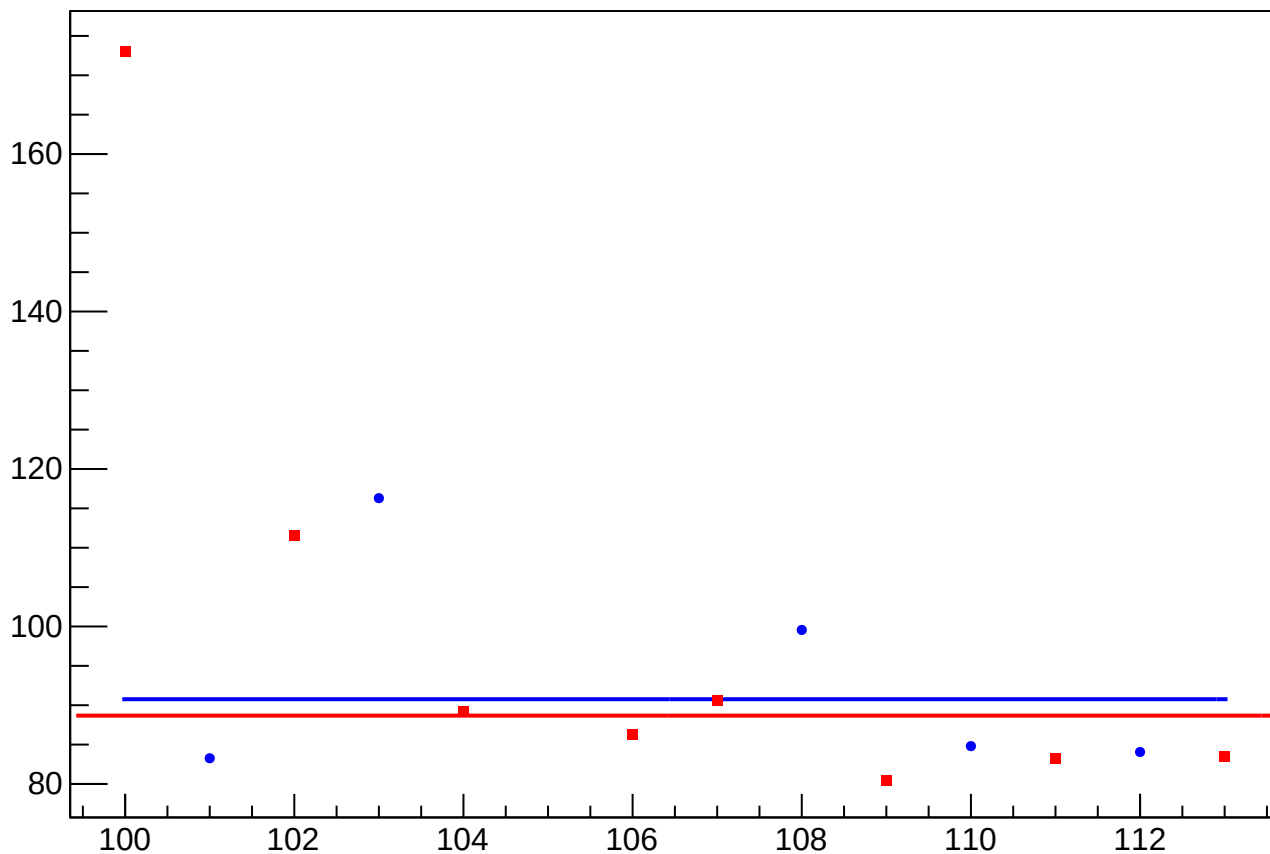
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -20.900+/-37.895  $\chi^2/\text{NDF}$ : 25.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_rms vs Slug



Right In: 90.761 $\pm$ 0.041  $\chi^2$ /NDF: 84255.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 88.679 $\pm$ 0.035  $\chi^2$ /NDF: 107547.0/7

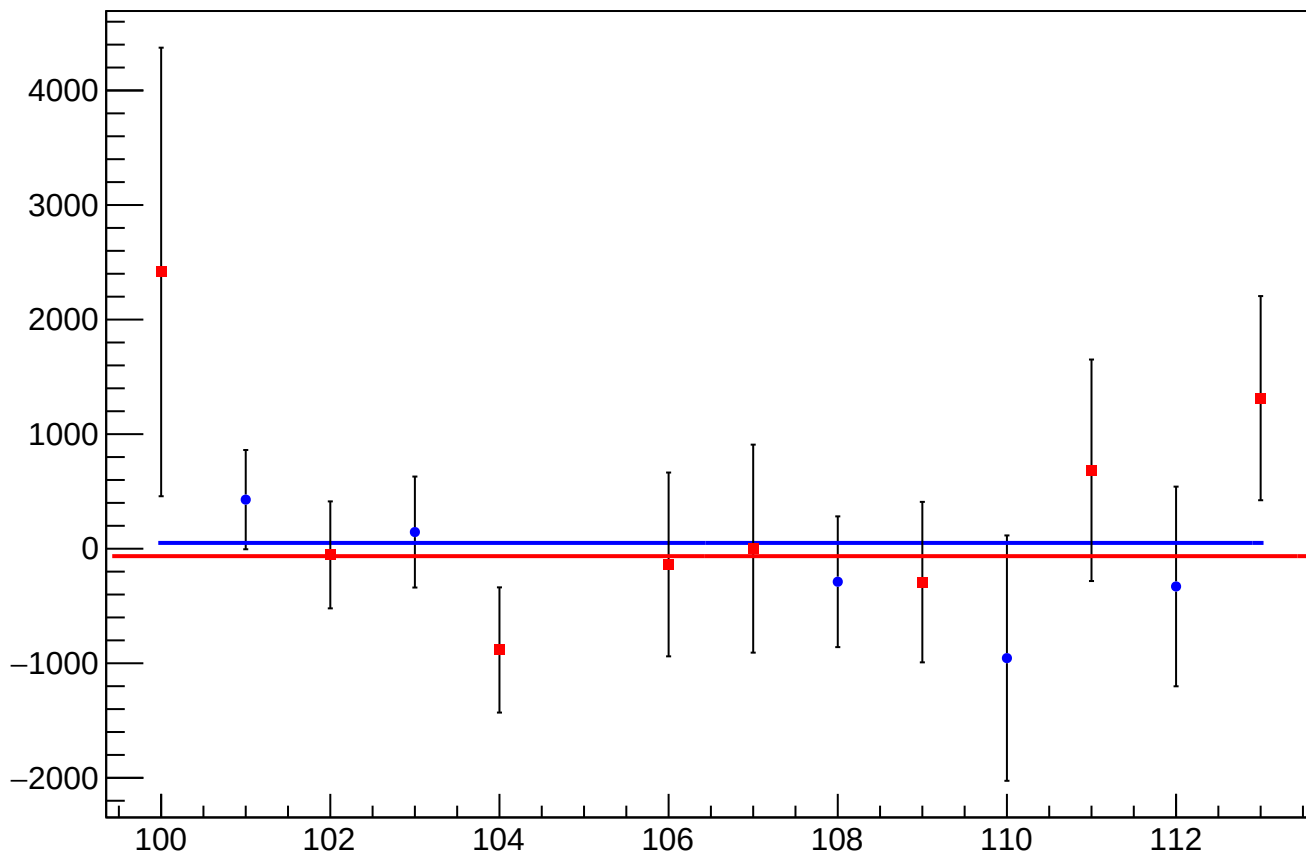
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.570 $\pm$ 0.027  $\chi^2$ /NDF: 193280.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_reg\_correction\_mean vs Slug



Right In: 50.593+/-259.475  $\chi^2/\text{NDF}$ : 2.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -64.928+/-255.387  $\chi^2/\text{NDF}$ : 7.0/7

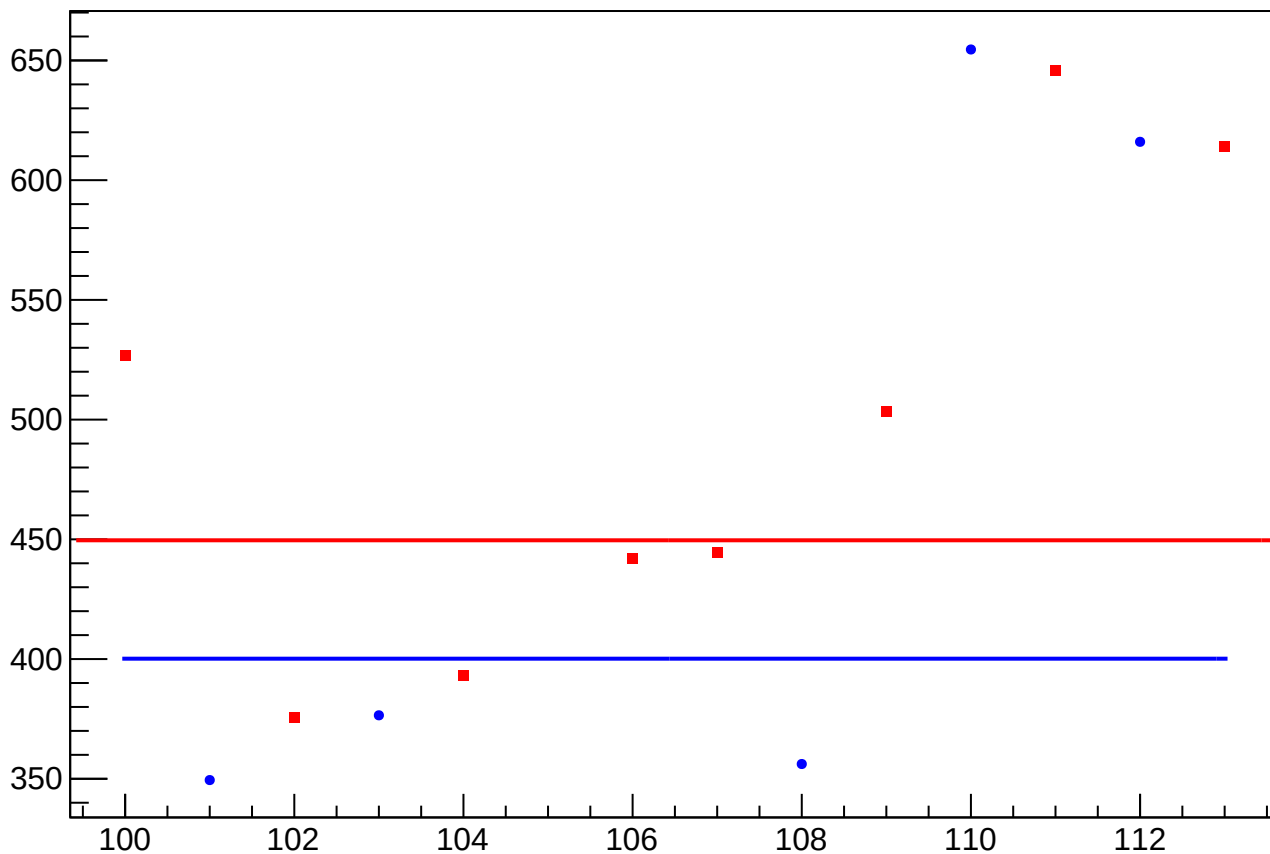
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.085+/-182.014  $\chi^2/\text{NDF}$ : 9.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_reg\_correction\_rms vs Slug



Right In: 400.160+/-0.183  $\chi^2/\text{NDF}$ : 279655.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 449.601+/-0.181  $\chi^2/\text{NDF}$ : 237369.6/7

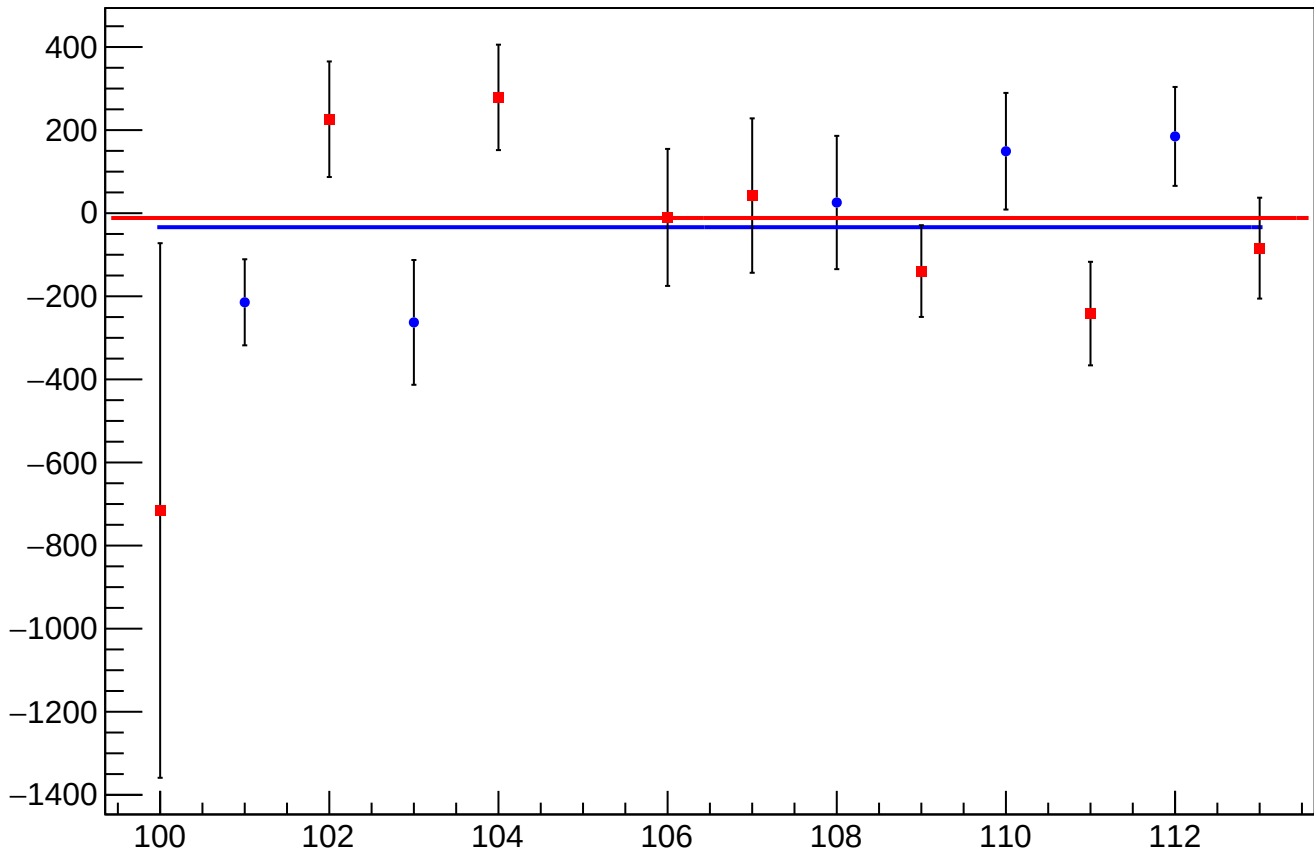
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 425.273+/-0.129  $\chi^2/\text{NDF}$ : 553907.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam6\_mean vs Slug



Right In: -33.687 $\pm$ 57.955  $\chi^2$ /NDF: 10.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -11.517 $\pm$ 50.237  $\chi^2$ /NDF: 14.5/7

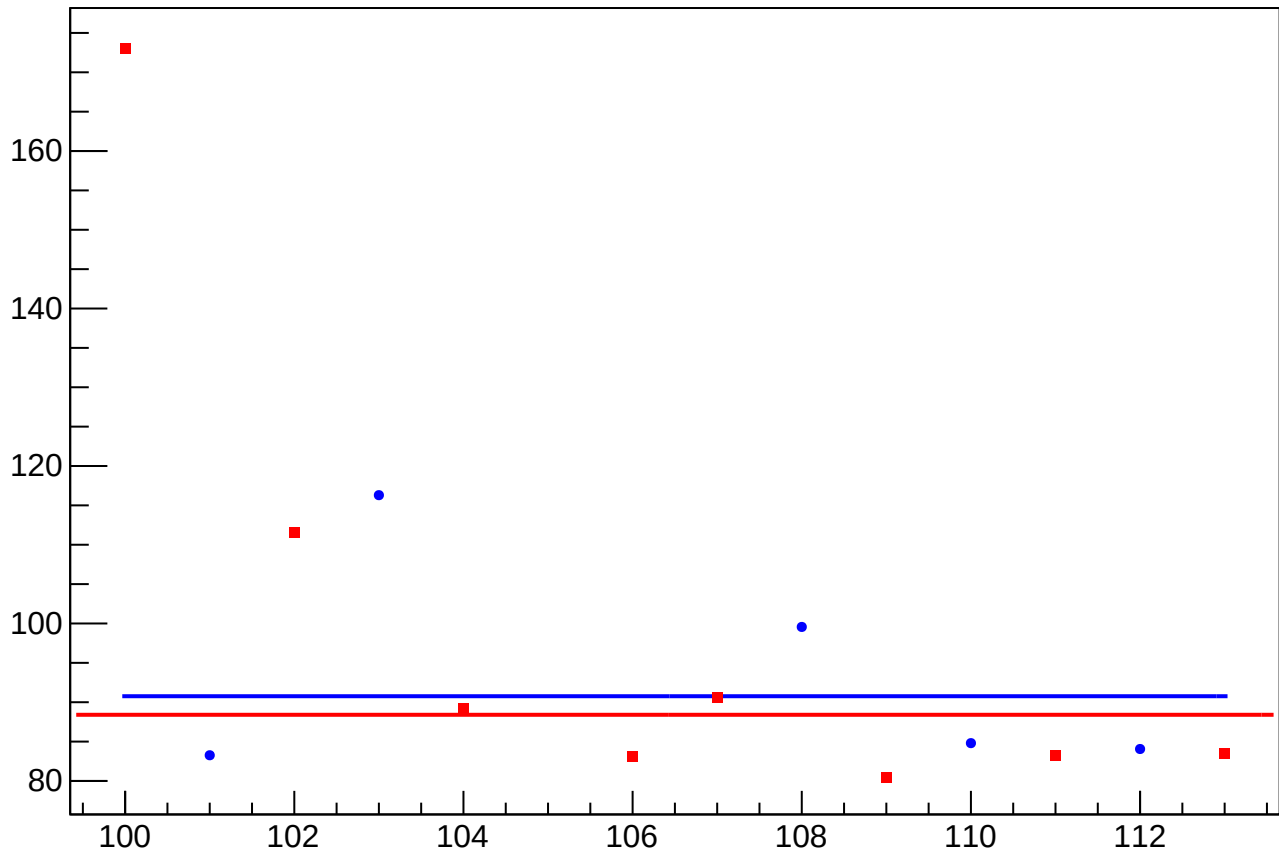
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -21.028 $\pm$ 37.960  $\chi^2$ /NDF: 25.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam6\_rms vs Slug



Right In: 90.762 $\pm$ 0.041  $\chi^2$ /NDF: 84258.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 88.403 $\pm$ 0.036  $\chi^2$ /NDF: 109458.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

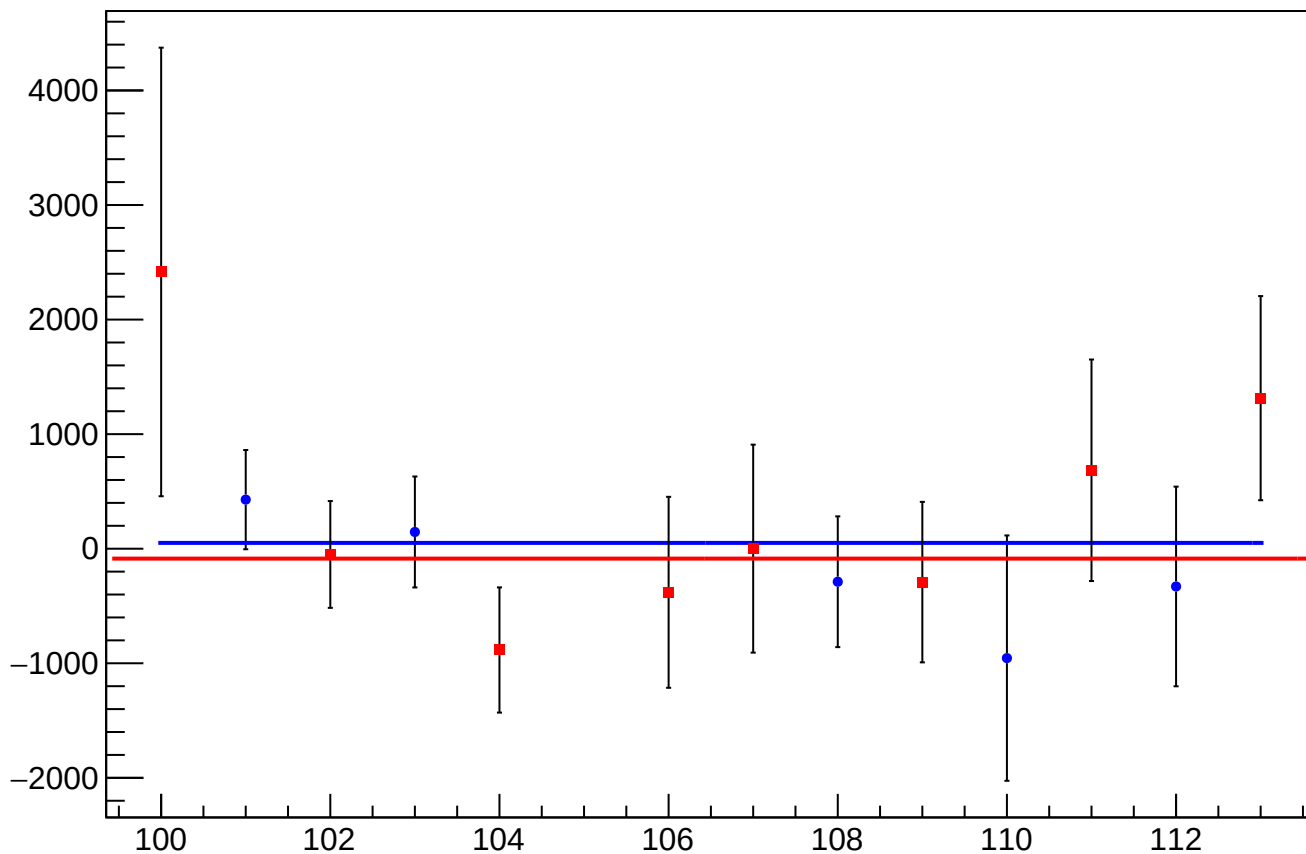
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.415 $\pm$ 0.027  $\chi^2$ /NDF: 195607.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam6\_cor\_correction\_mean vs Slug



Right In: 50.787 $\pm$ 259.465  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -86.339 $\pm$ 256.222  $\chi^2$ /NDF: 7.1/7

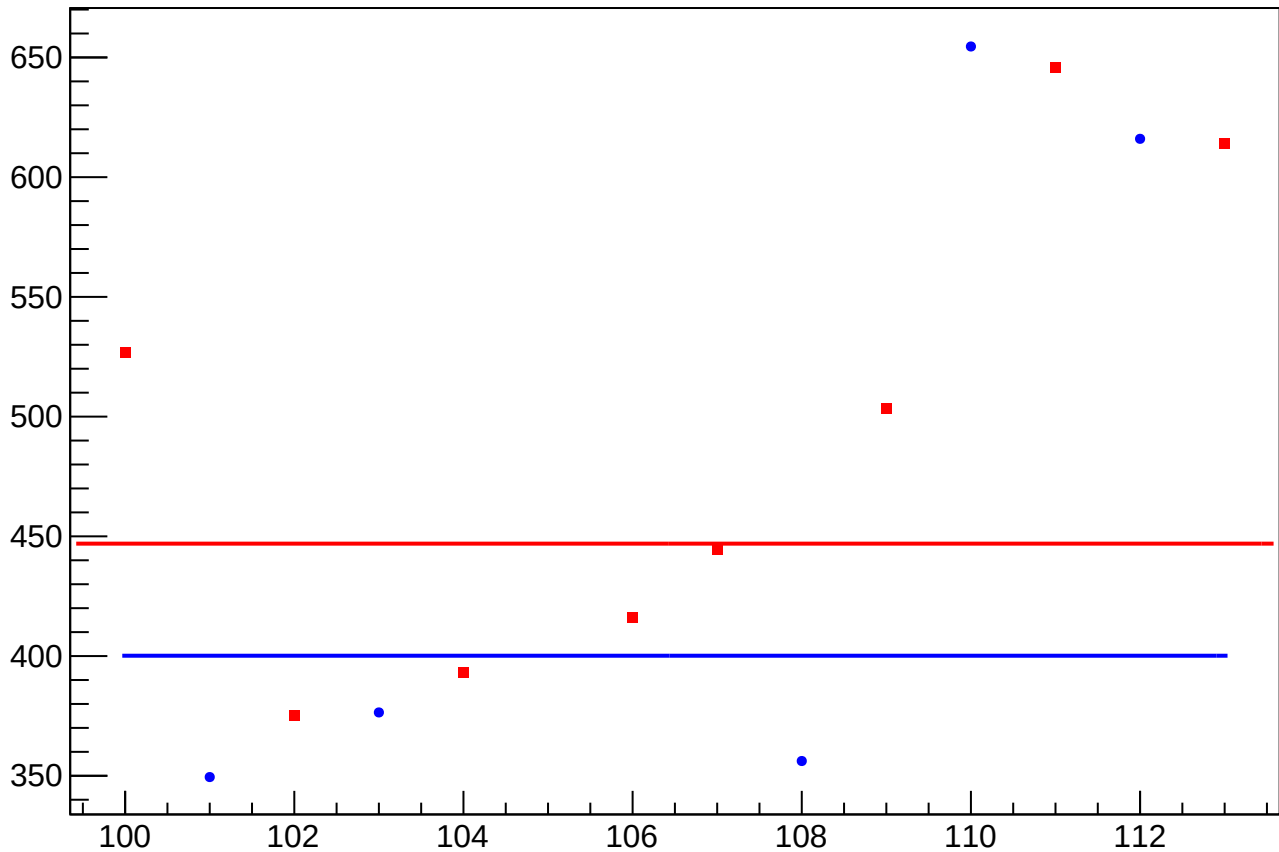
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -18.638 $\pm$ 182.312  $\chi^2$ /NDF: 9.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_cor\_correction\_rms vs Slug



Right In: 400.143 $\pm$ 0.183  $\chi^2$ /NDF: 279677.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 446.951 $\pm$ 0.181  $\chi^2$ /NDF: 241246.5/7

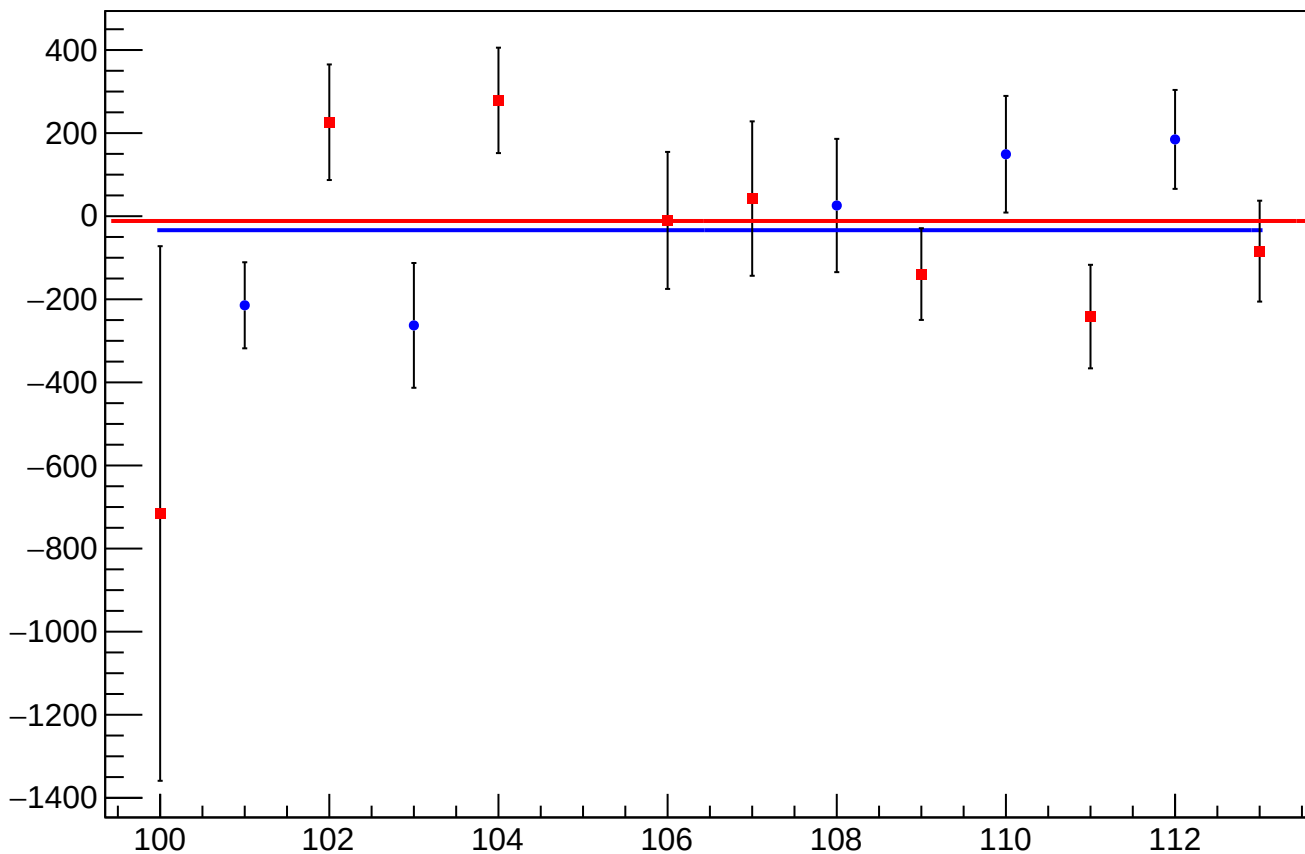
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 423.841 $\pm$ 0.129  $\chi^2$ /NDF: 553877.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam6\_mean vs Slug



Right In: -33.687 $\pm$ 57.955  $\chi^2$ /NDF: 10.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -11.517 $\pm$ 50.237  $\chi^2$ /NDF: 14.5/7

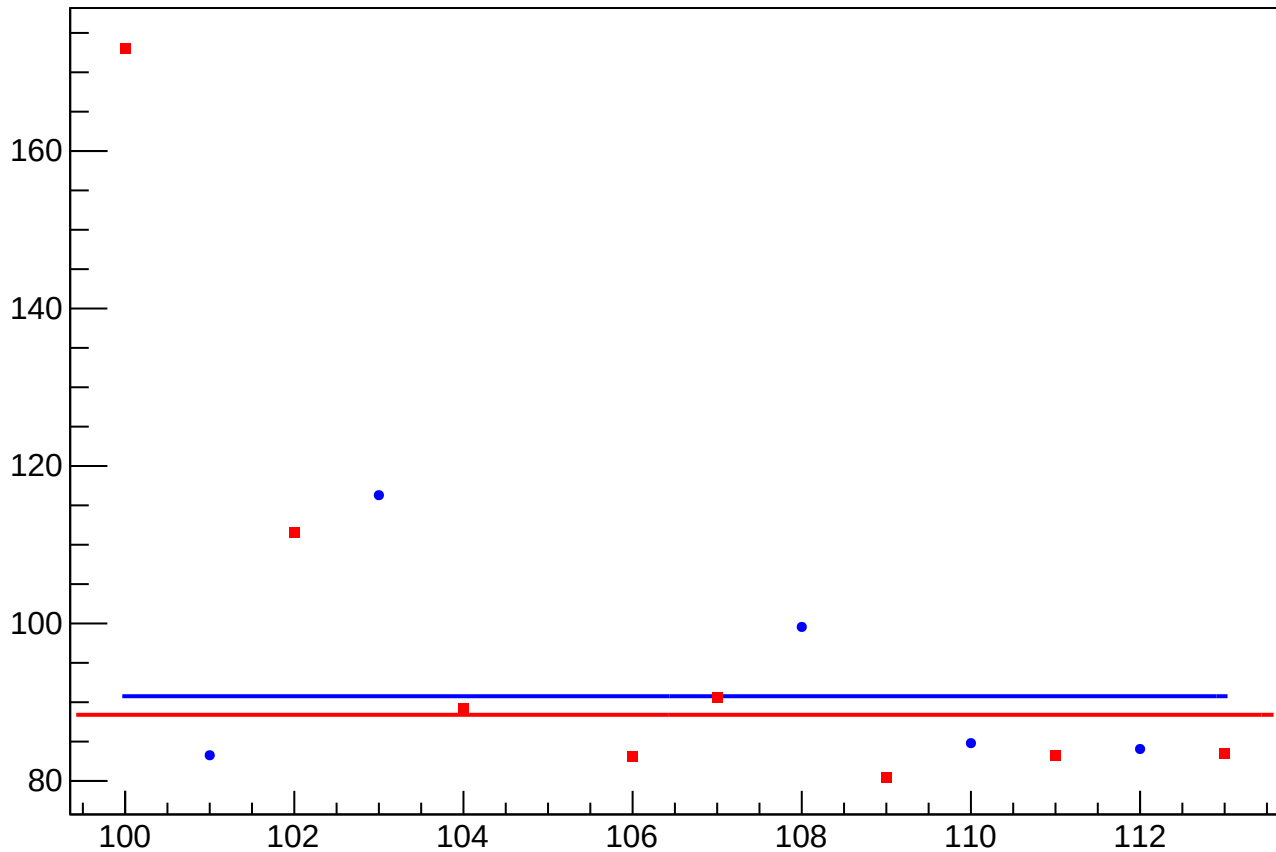
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -21.028 $\pm$ 37.960  $\chi^2$ /NDF: 25.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam6\_rms vs Slug



Right In: 90.762 $\pm$ 0.041  $\chi^2$ /NDF: 84258.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 88.403 $\pm$ 0.036  $\chi^2$ /NDF: 109458.4/7

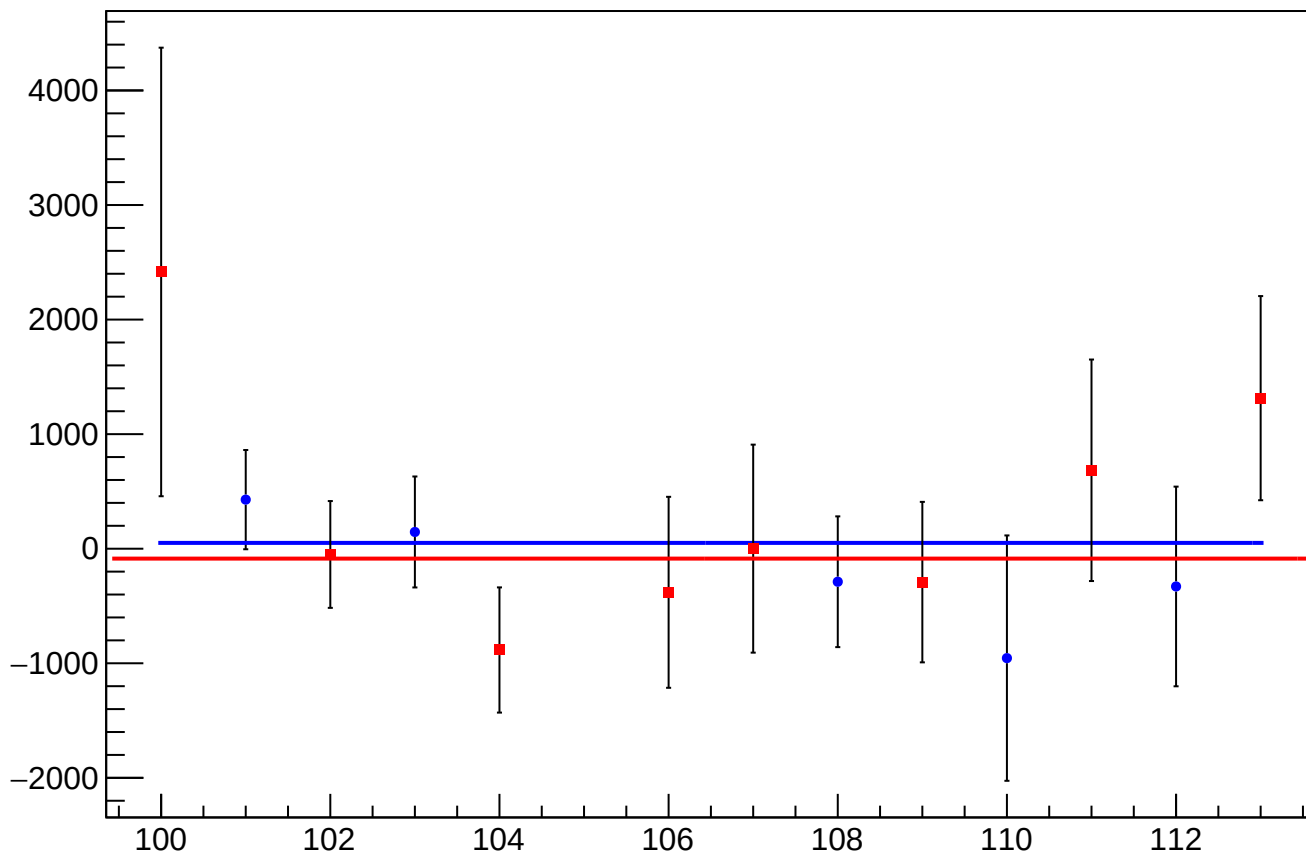
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.415 $\pm$ 0.027  $\chi^2$ /NDF: 195607.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam6\_eigen\_cor\_correction\_mean vs Slug



Right In: 50.787 $\pm$ 259.465  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -86.339 $\pm$ 256.222  $\chi^2$ /NDF: 7.1/7

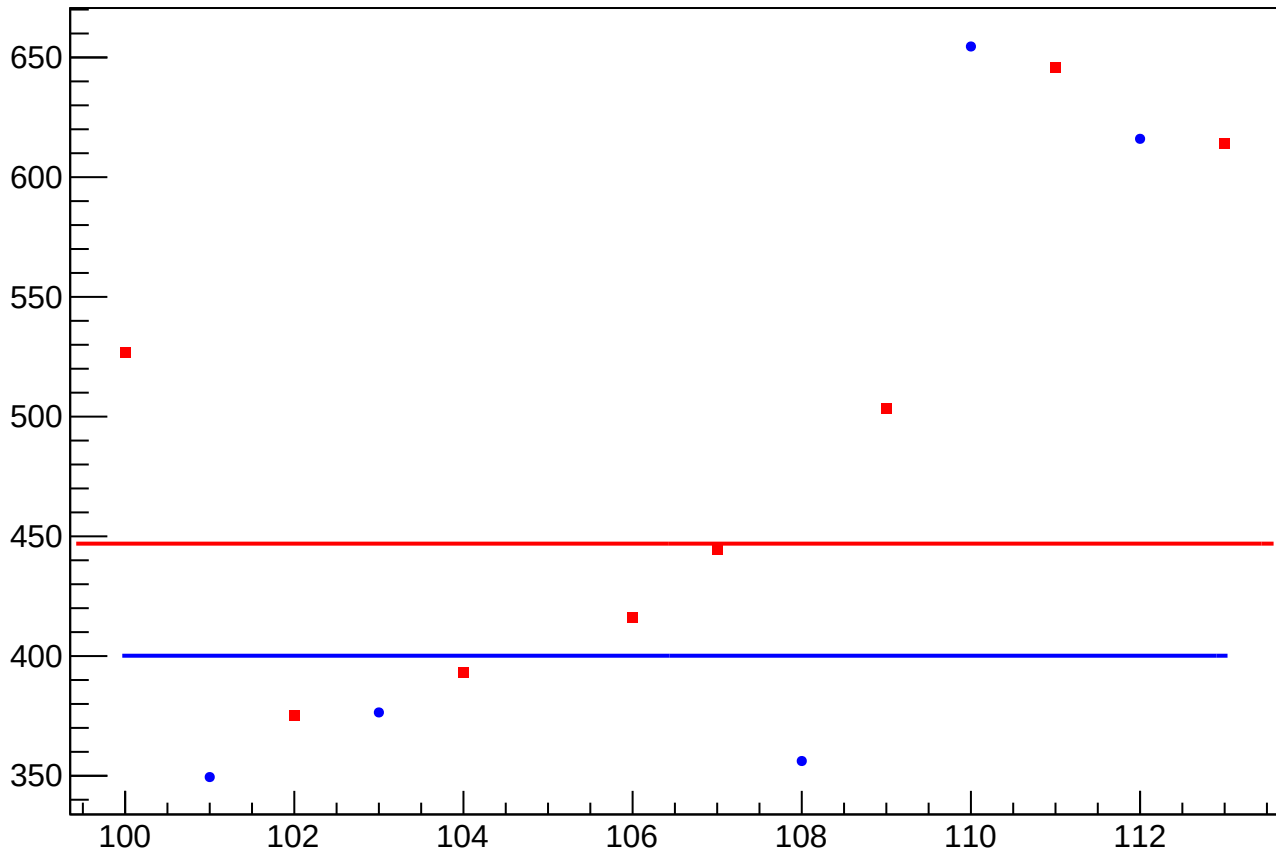
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -18.638 $\pm$ 182.312  $\chi^2$ /NDF: 9.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_eigen\_cor\_correction\_rms vs Slug



Right In: 400.143+/-0.183  $\chi^2/\text{NDF}$ : 279677.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 446.951+/-0.181  $\chi^2/\text{NDF}$ : 241246.5/7

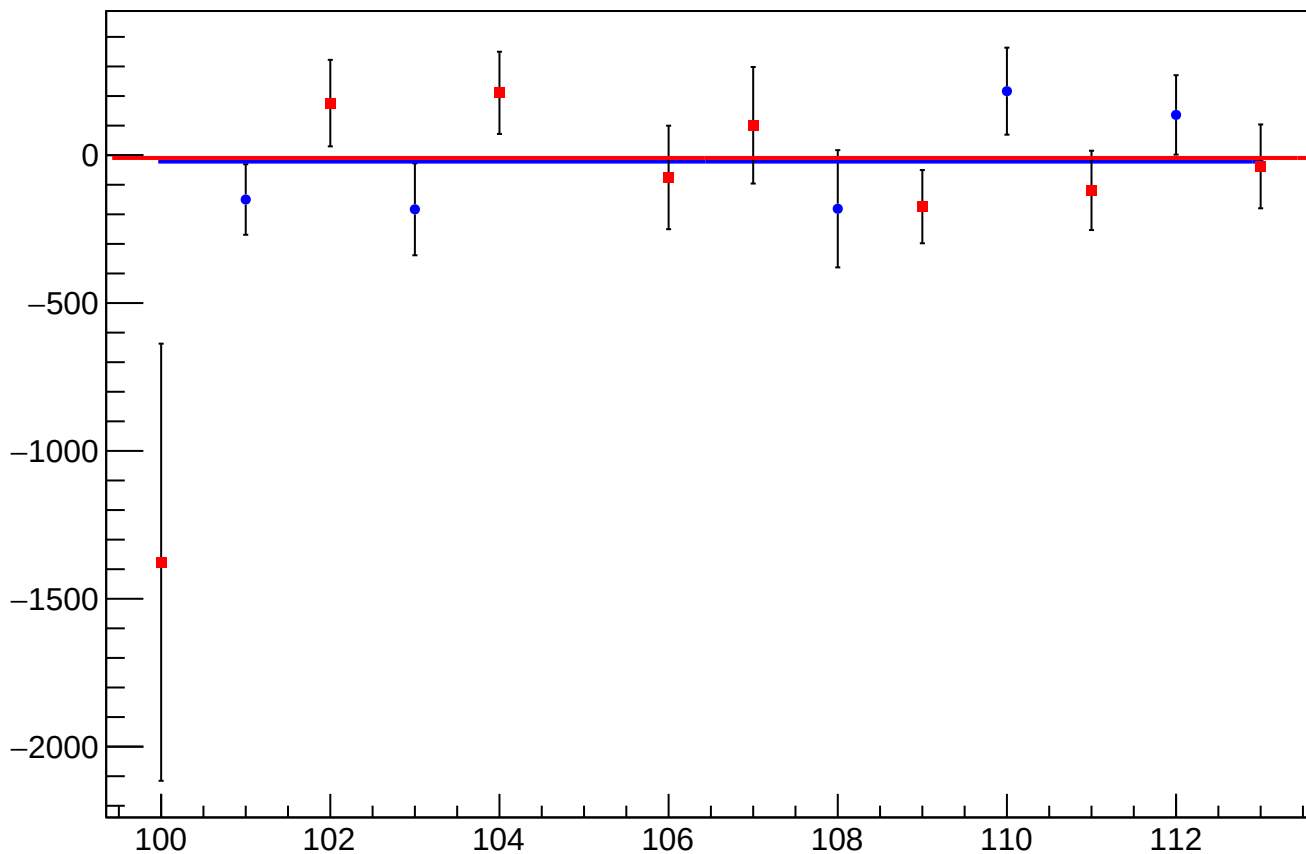
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 423.841+/-0.129  $\chi^2/\text{NDF}$ : 553877.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam6\_mean vs Slug



Right In: -21.638 $\pm$ 64.710  $\chi^2$ /NDF: 6.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -9.368 $\pm$ 55.109  $\chi^2$ /NDF: 10.5/7

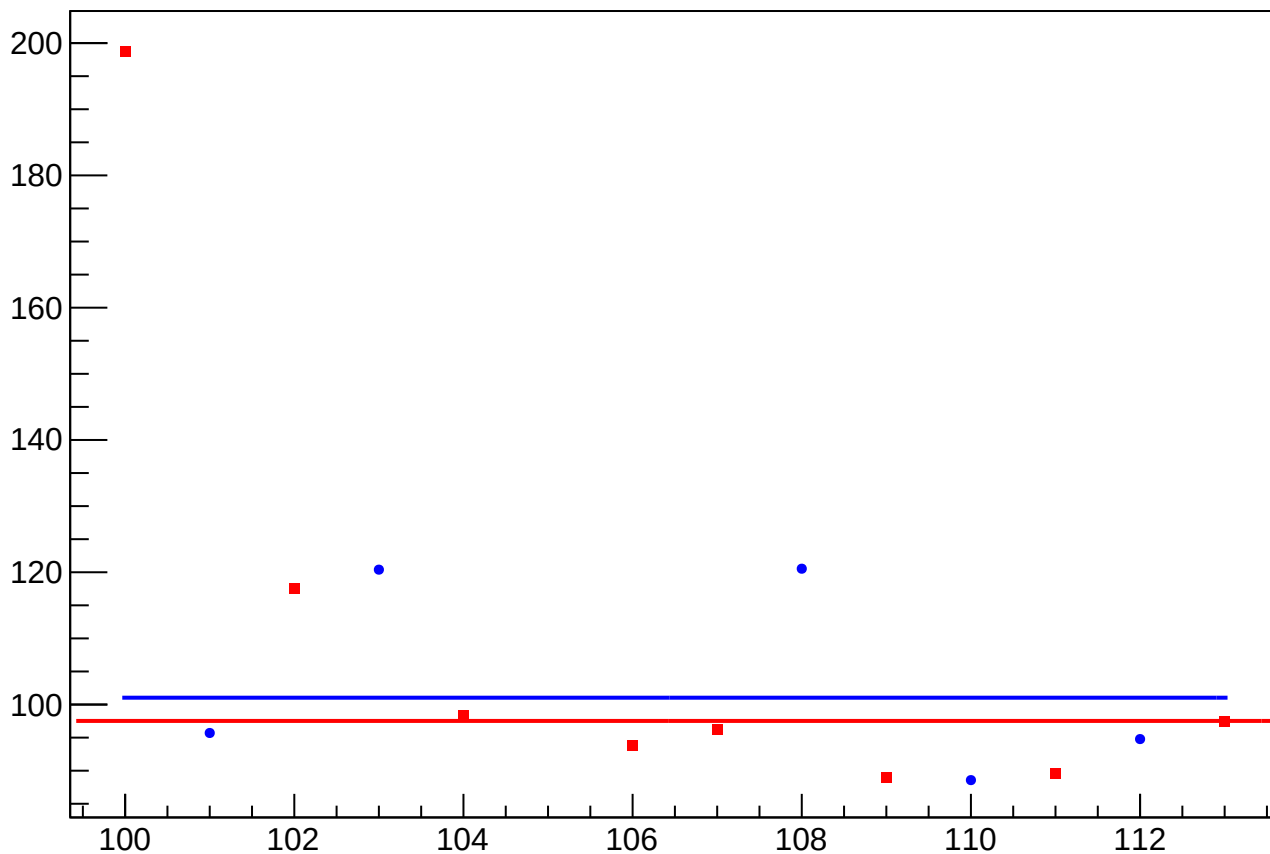
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.526 $\pm$ 41.956  $\chi^2$ /NDF: 17.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam6\_rms vs Slug



Right In: 101.036 $\pm$ 0.046  $\chi^2$ /NDF: 73069.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 97.523 $\pm$ 0.039  $\chi^2$ /NDF: 92622.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

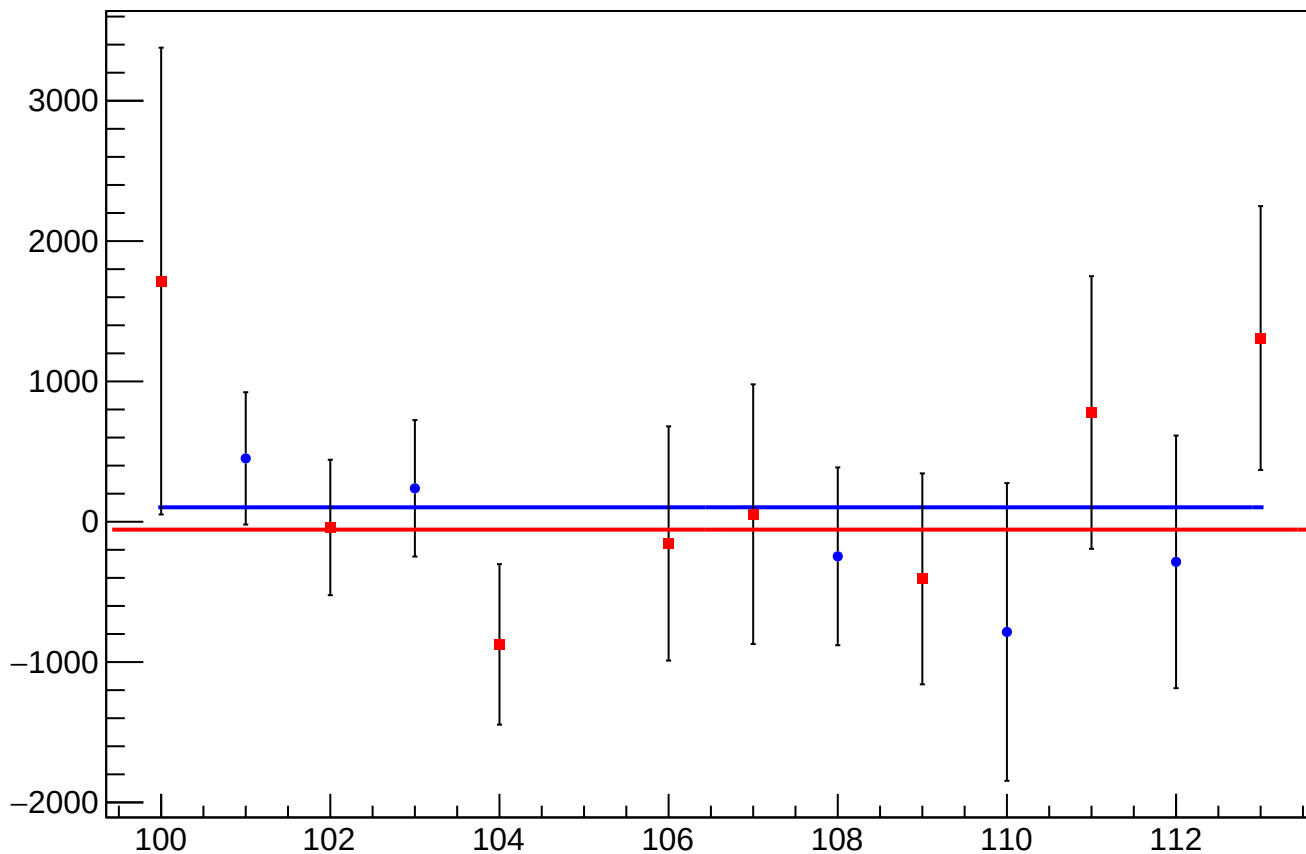
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 99.000 $\pm$ 0.030  $\chi^2$ /NDF: 169107.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam6\_dit\_correction\_mean vs Slug



Right In: 102.991 $\pm$ 273.743  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -56.122 $\pm$ 264.617  $\chi^2$ /NDF: 6.3/7

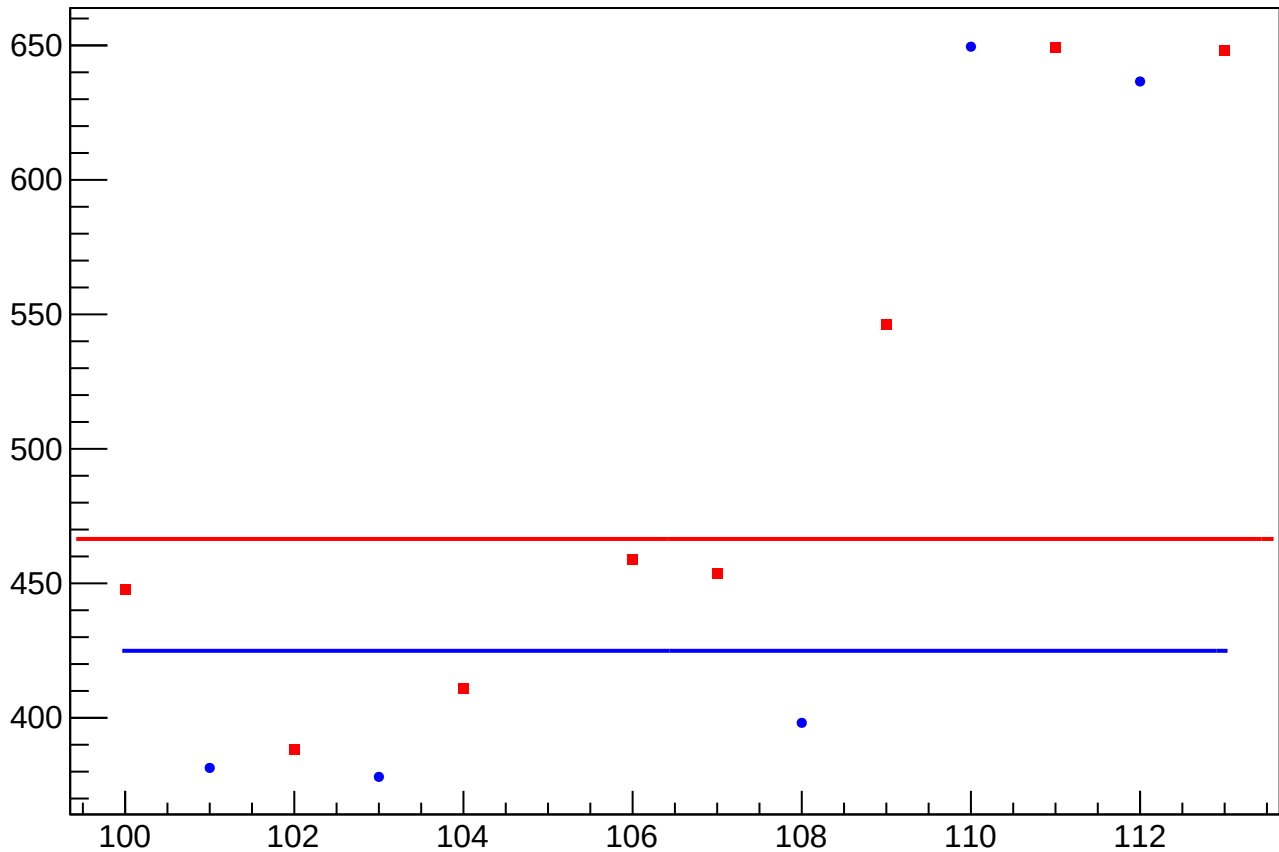
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 20.738 $\pm$ 190.257  $\chi^2$ /NDF: 8.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_dit\_correction\_rms vs Slug



Right In: 424.924+/-0.194  $\chi^2/\text{NDF}$ : 239515.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 466.507+/-0.187  $\chi^2/\text{NDF}$ : 240490.8/7

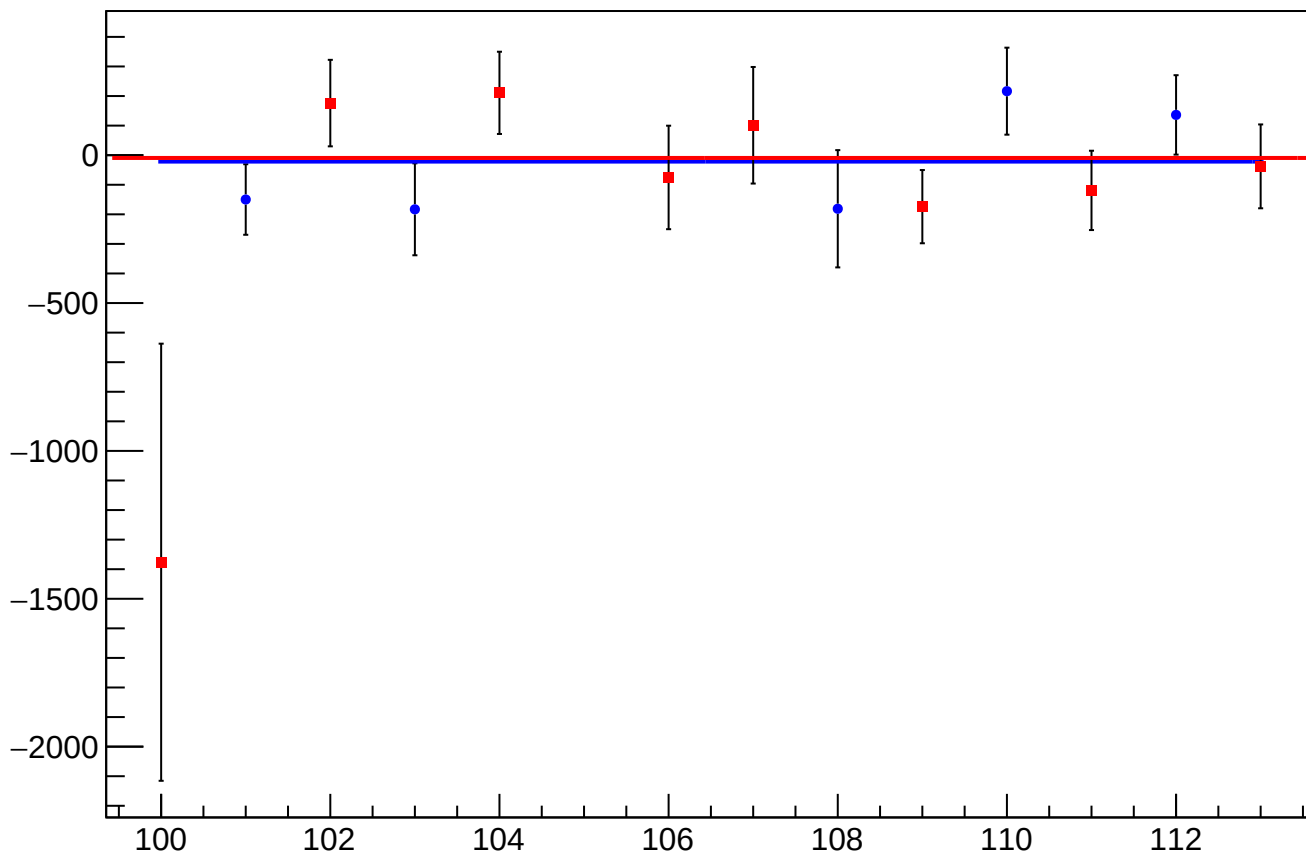
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 446.420+/-0.135  $\chi^2/\text{NDF}$ : 503862.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam6\_mean vs Slug



Right In:  $-21.640 \pm 64.710$   $\chi^2/\text{NDF}$ : 6.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-9.370 \pm 55.109$   $\chi^2/\text{NDF}$ : 10.5/7

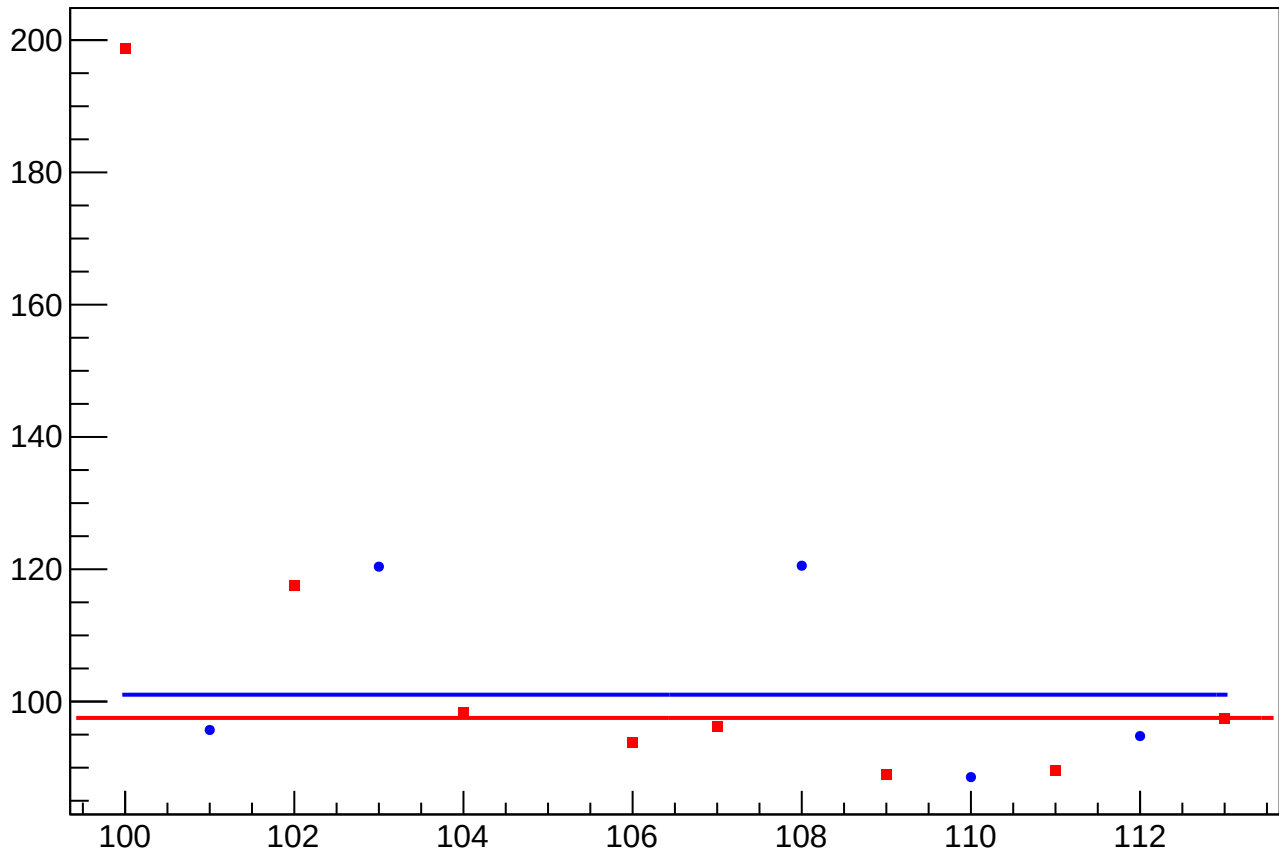
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-14.528 \pm 41.956$   $\chi^2/\text{NDF}$ : 17.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam6\_rms vs Slug



Right In: 101.036+/-0.046  $\chi^2/\text{NDF}$ : 73071.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 97.523+/-0.039  $\chi^2/\text{NDF}$ : 92623.5/7

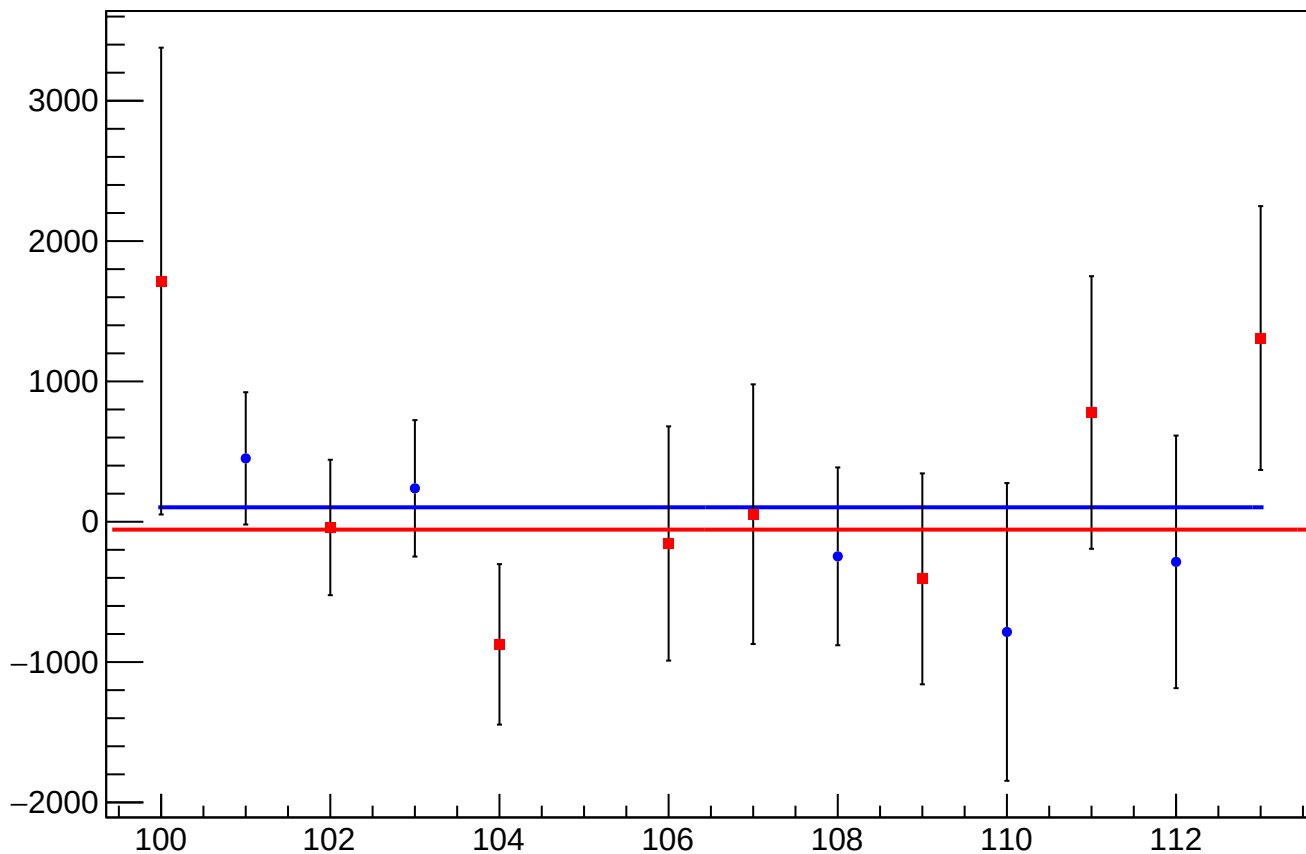
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 99.000+/-0.030  $\chi^2/\text{NDF}$ : 169111.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_eigen\_dit\_correction\_mean vs Slug



Right In: 102.991 $\pm$ 273.743  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -56.124 $\pm$ 264.616  $\chi^2$ /NDF: 6.3/7

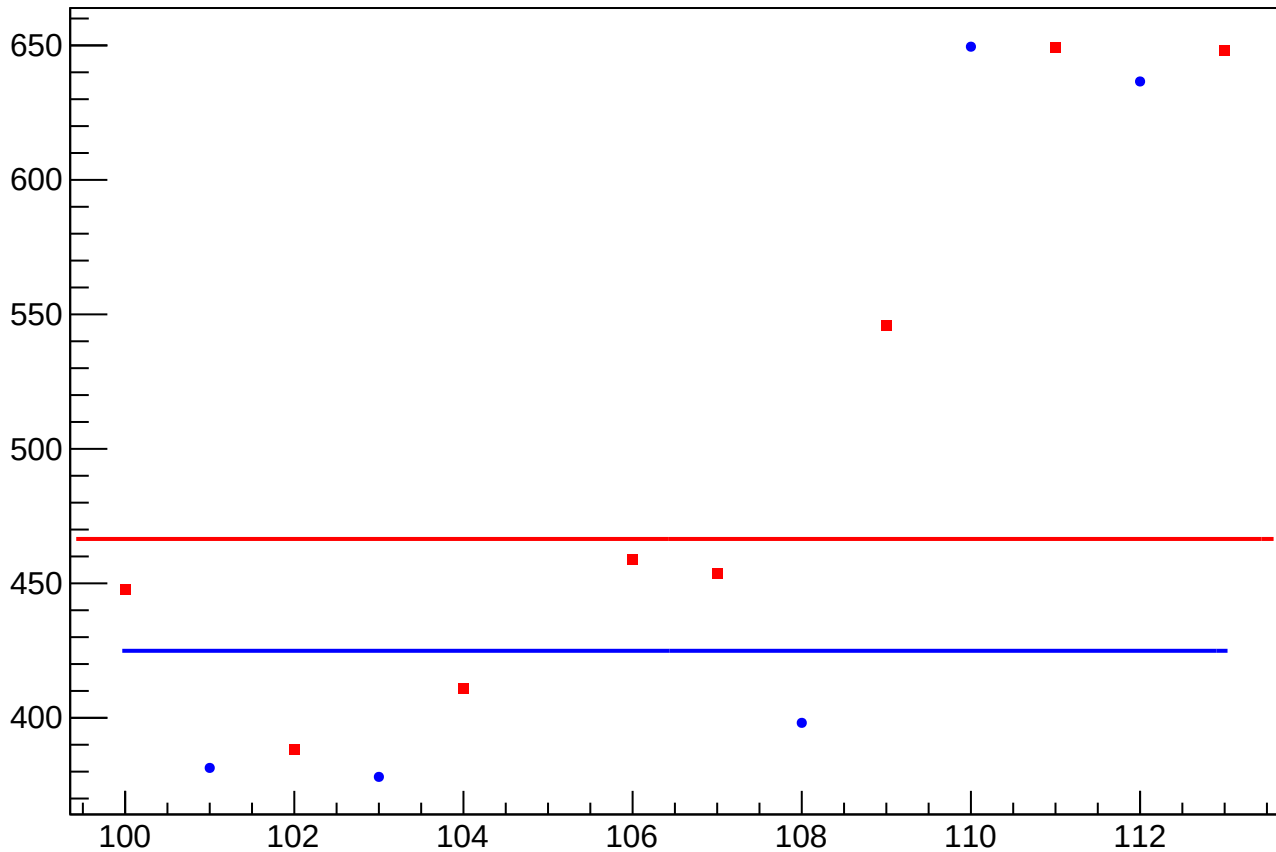
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 20.737 $\pm$ 190.257  $\chi^2$ /NDF: 8.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_eigen\_dit\_correction\_rms vs Slug



Right In: 424.923+/-0.194  $\chi^2/\text{NDF}$ : 239517.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 466.506+/-0.187  $\chi^2/\text{NDF}$ : 240491.2/7

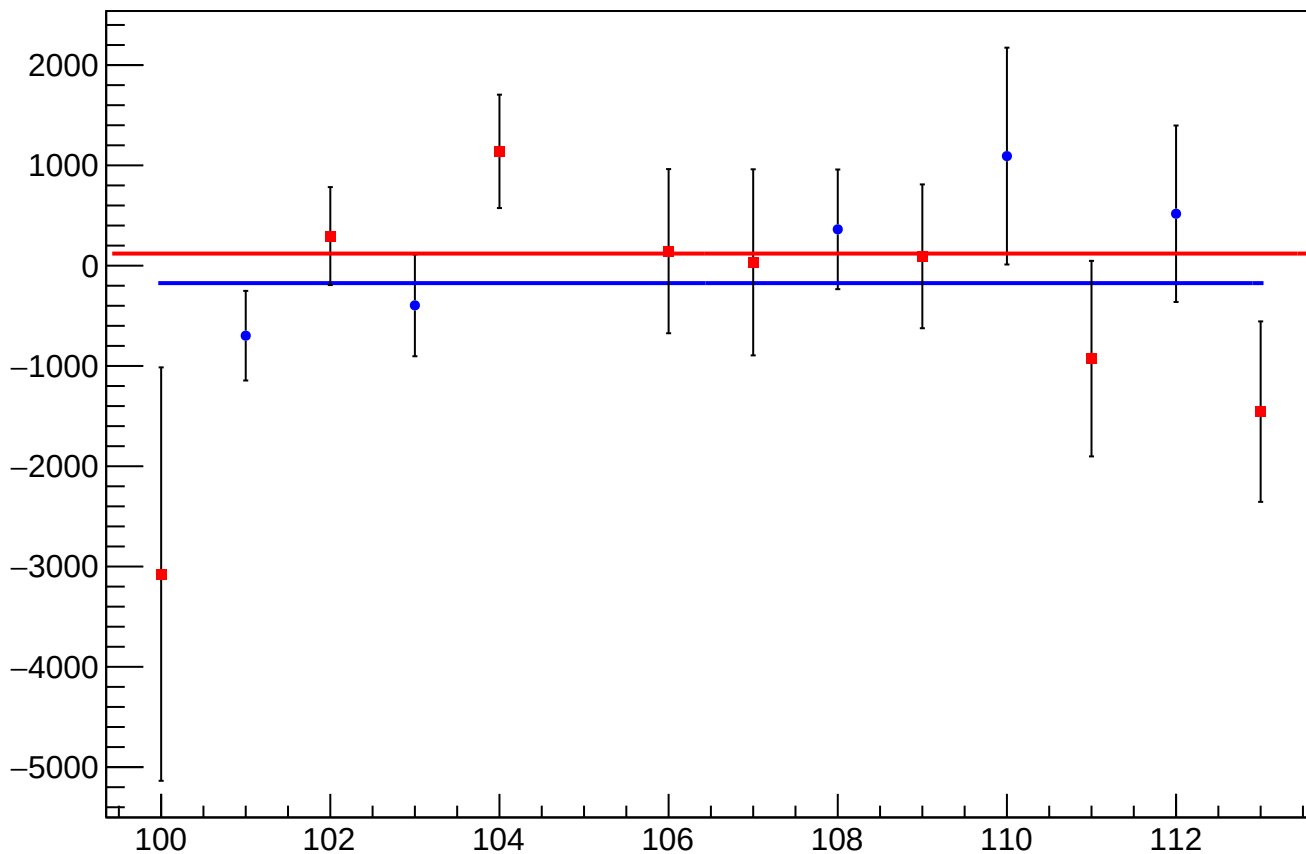
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 446.420+/-0.135  $\chi^2/\text{NDF}$ : 503865.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_mean vs Slug



Right In: -174.024 $\pm$ 268.733  $\chi^2$ /NDF: 4.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 120.574 $\pm$ 263.117  $\chi^2$ /NDF: 10.0/7

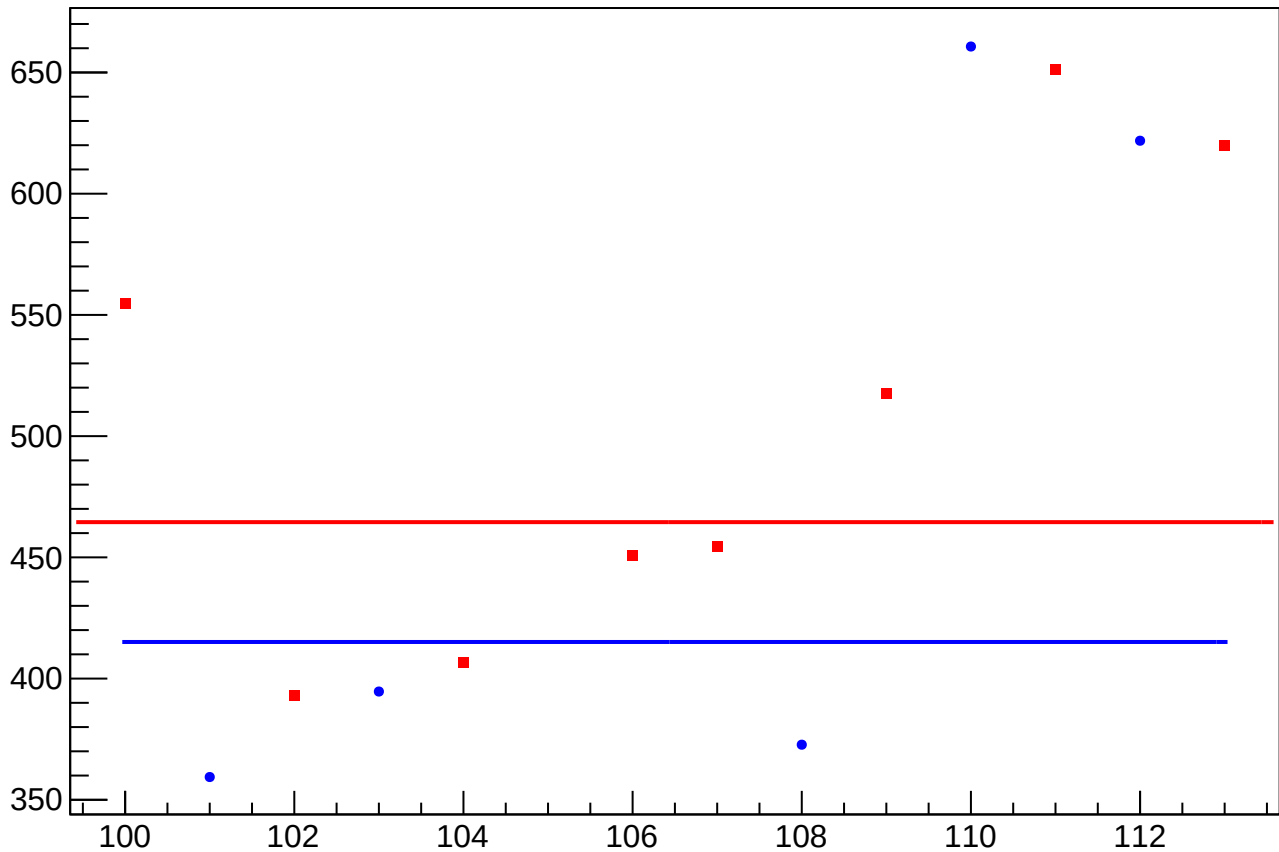
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -23.614 $\pm$ 188.006  $\chi^2$ /NDF: 15.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_rms vs Slug



Right In: 415.097 $\pm$ 0.190  $\chi^2$ /NDF: 258147.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 464.528 $\pm$ 0.186  $\chi^2$ /NDF: 212568.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

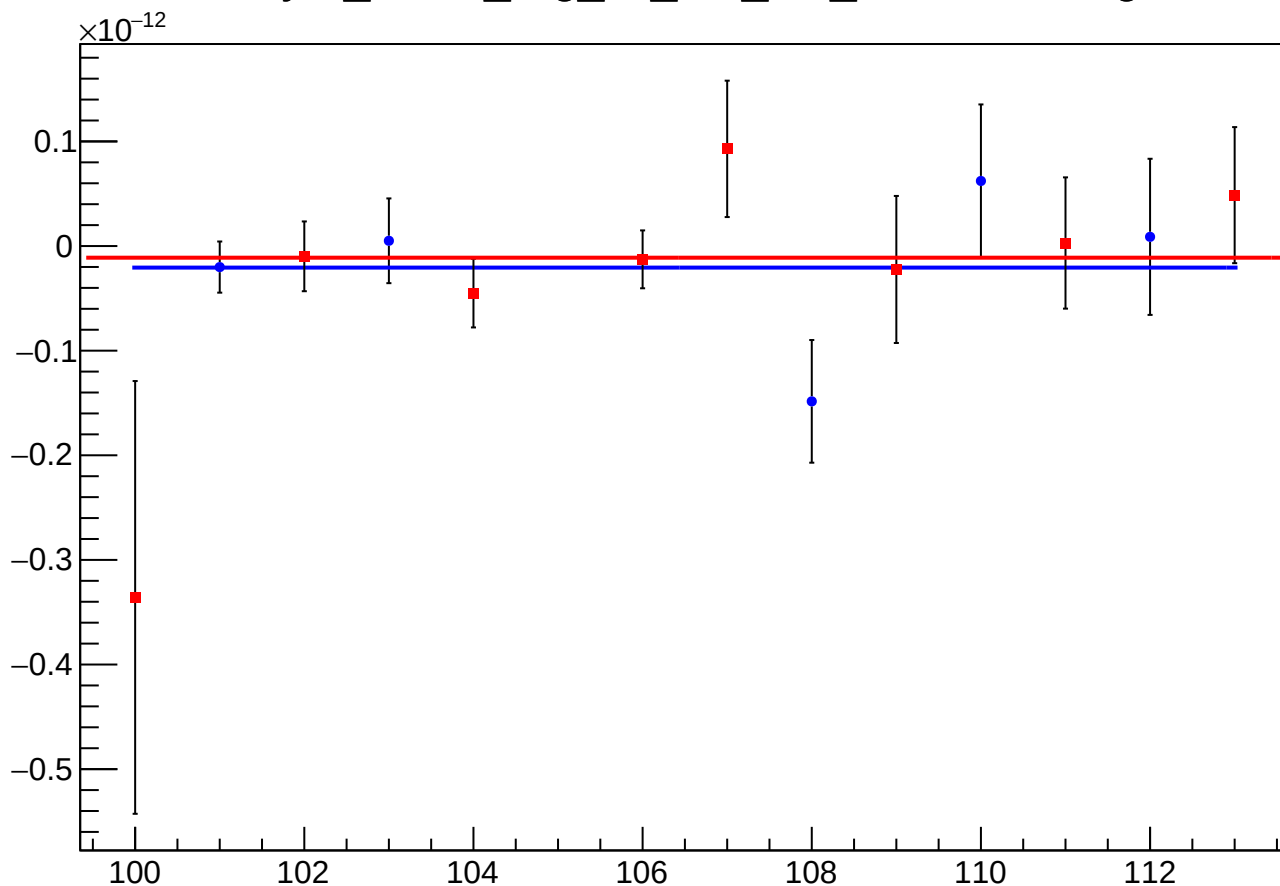
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 440.334 $\pm$ 0.133  $\chi^2$ /NDF: 505265.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam6\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.0/7

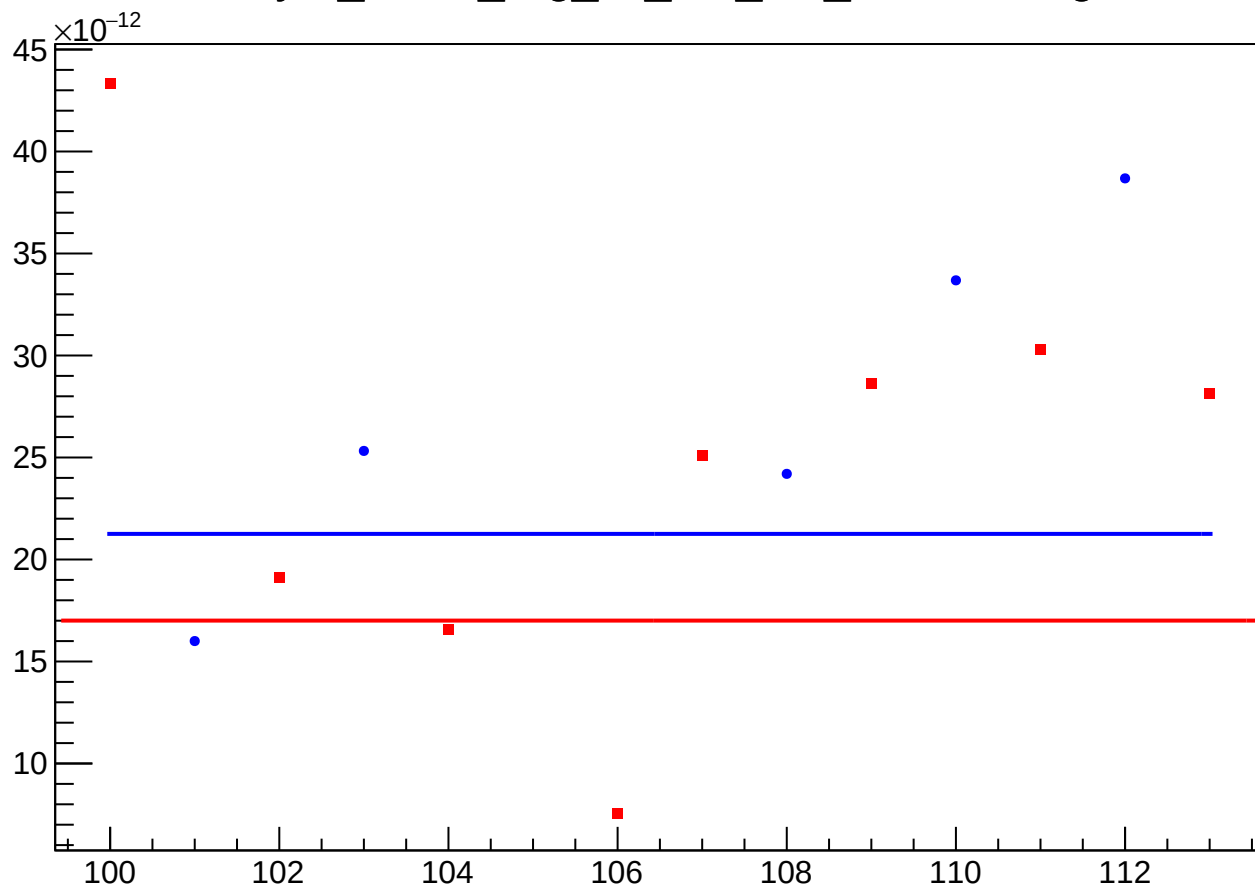
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 284430.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 507542.7/7

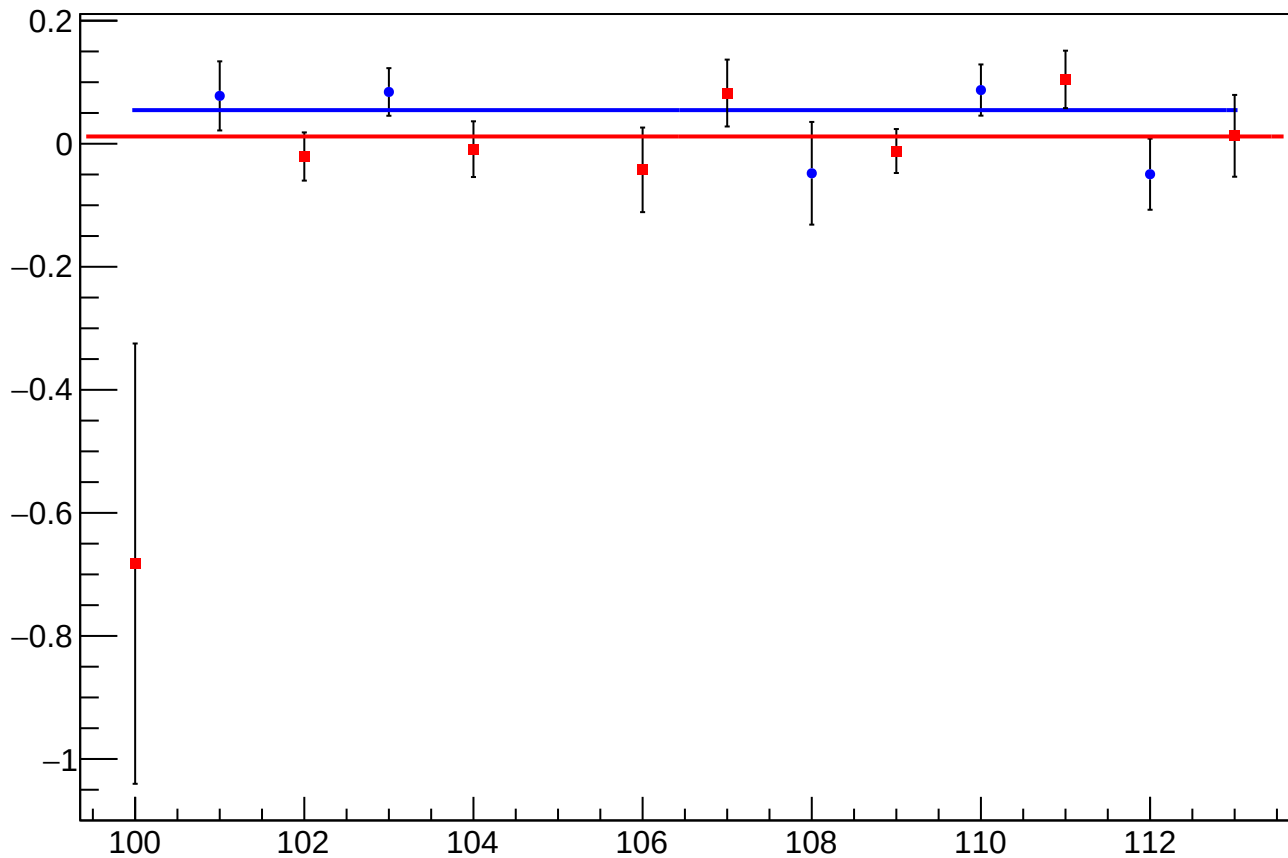
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 853743.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.055 $\pm$ 0.022  $\chi^2$ /NDF: 6.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.012 $\pm$ 0.018  $\chi^2$ /NDF: 11.4/7

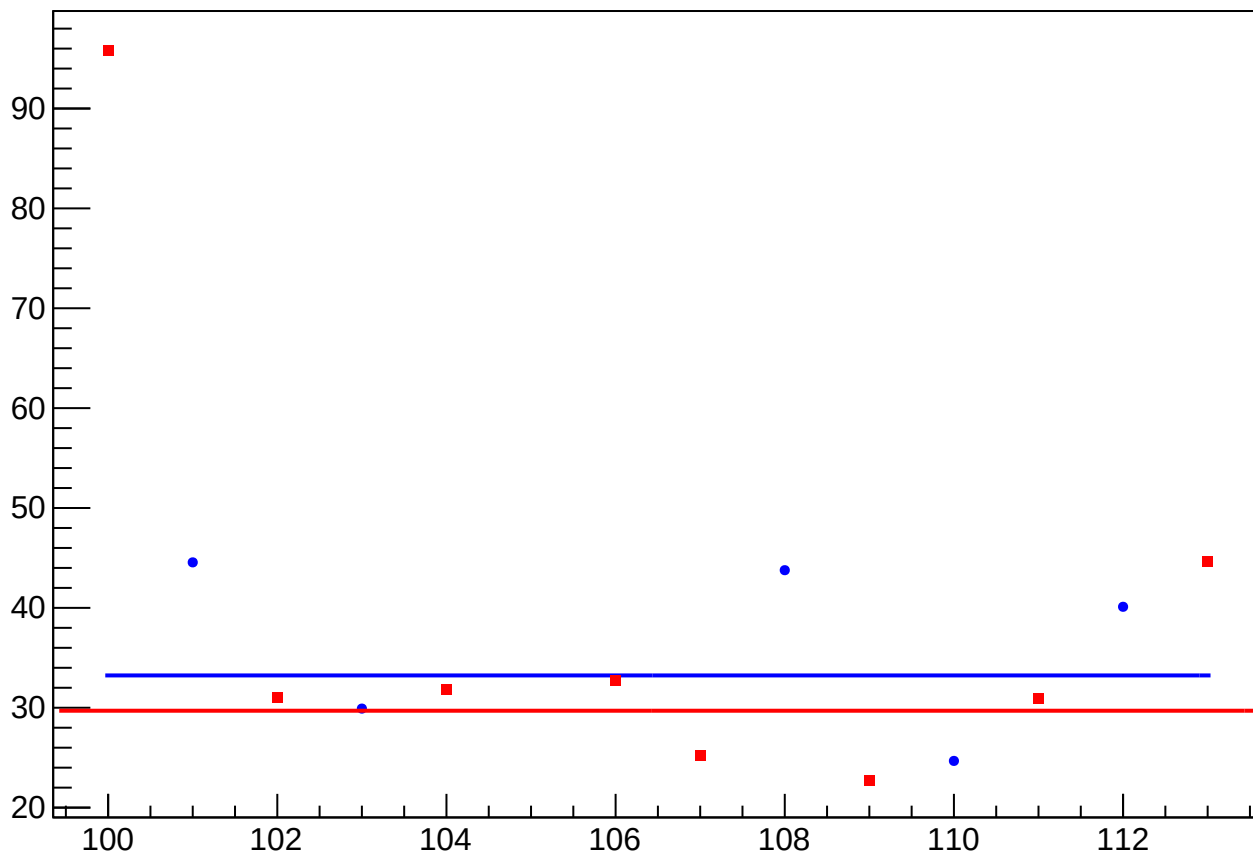
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.028 $\pm$ 0.014  $\chi^2$ /NDF: 19.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 33.235+/-0.016  $\chi^2/\text{NDF}$ : 240804.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.701+/-0.013  $\chi^2/\text{NDF}$ : 271132.1/7

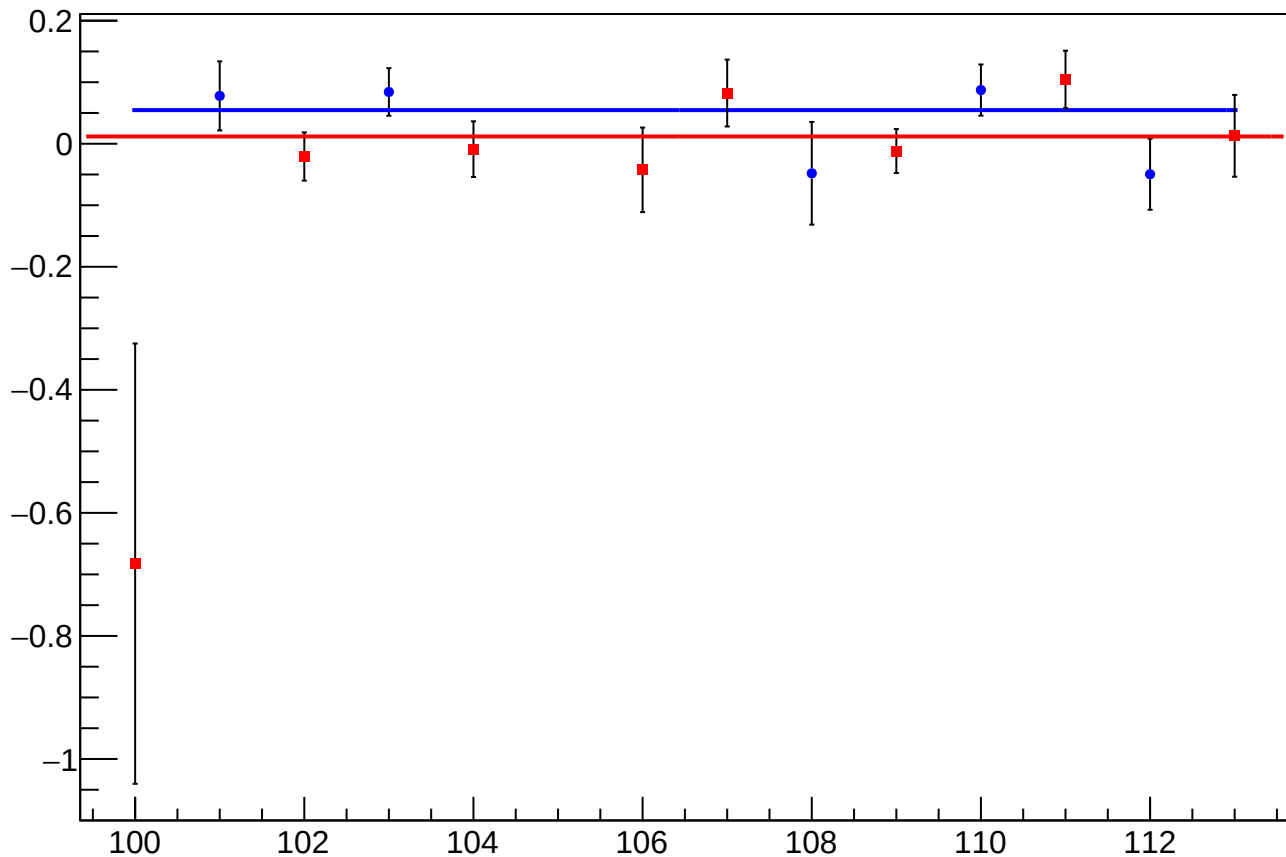
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.072+/-0.010  $\chi^2/\text{NDF}$ : 542608.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam6\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.055 $\pm$ 0.022  $\chi^2$ /NDF: 6.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.012 $\pm$ 0.018  $\chi^2$ /NDF: 11.4/7

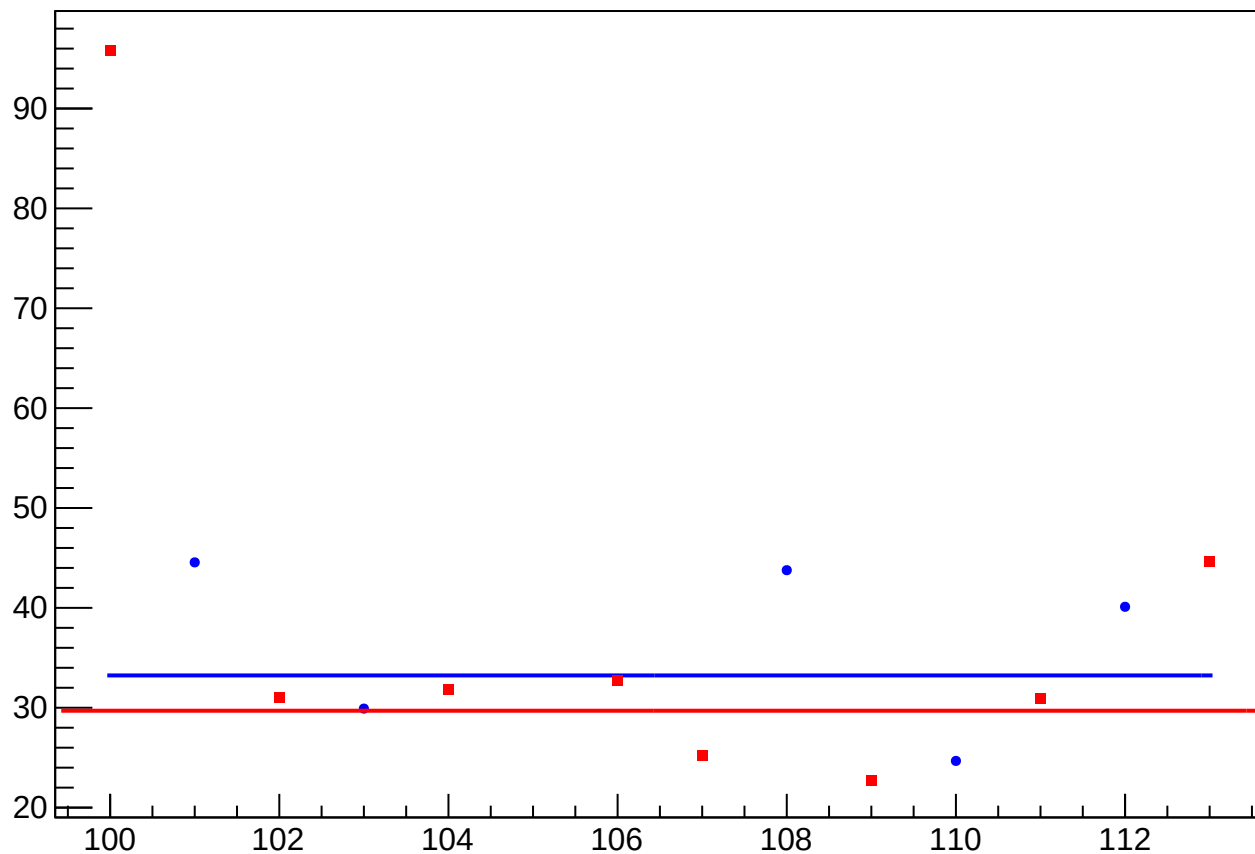
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.028 $\pm$ 0.014  $\chi^2$ /NDF: 19.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 33.235+/-0.016  $\chi^2/\text{NDF}$ : 240804.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.701+/-0.013  $\chi^2/\text{NDF}$ : 271132.1/7

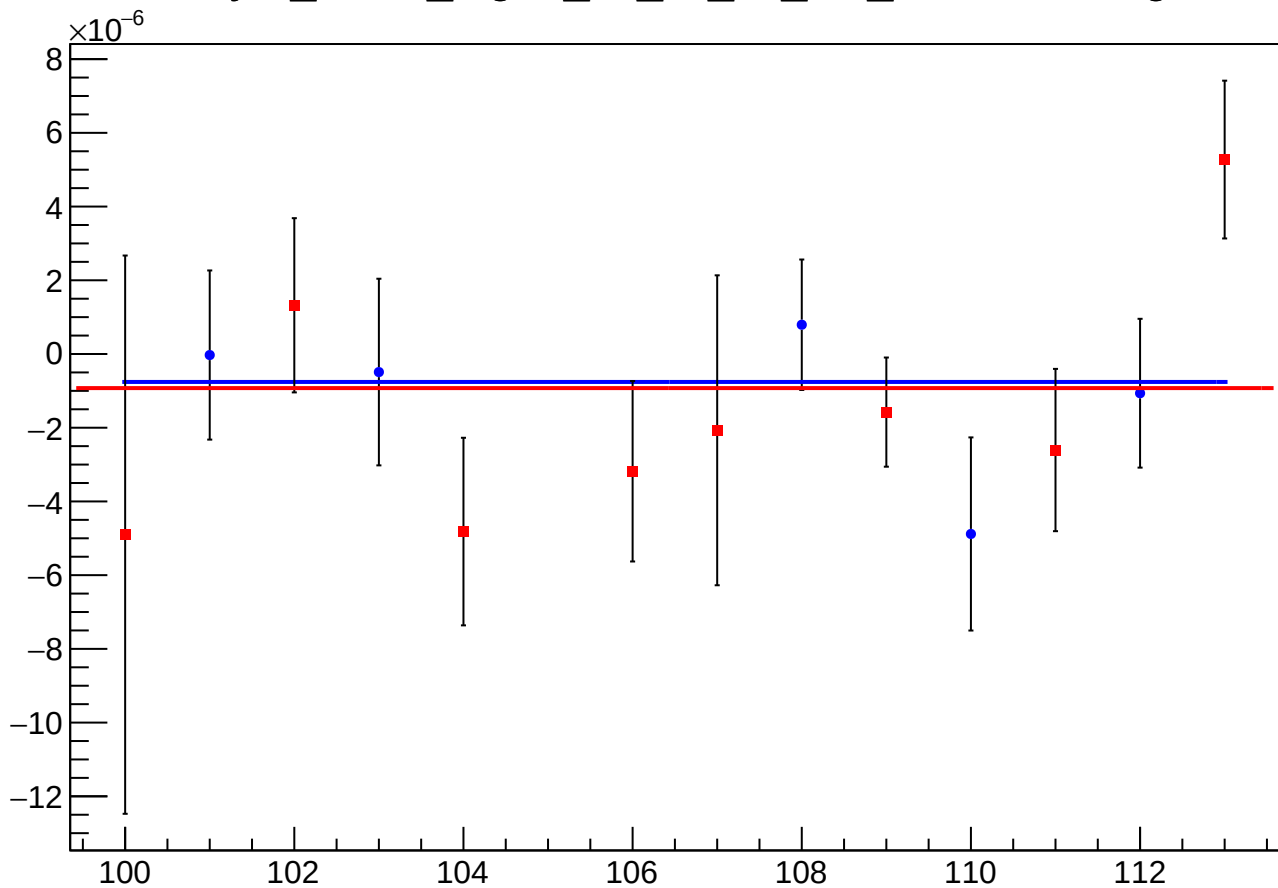
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.072+/-0.010  $\chi^2/\text{NDF}$ : 542608.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam6\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.6/7

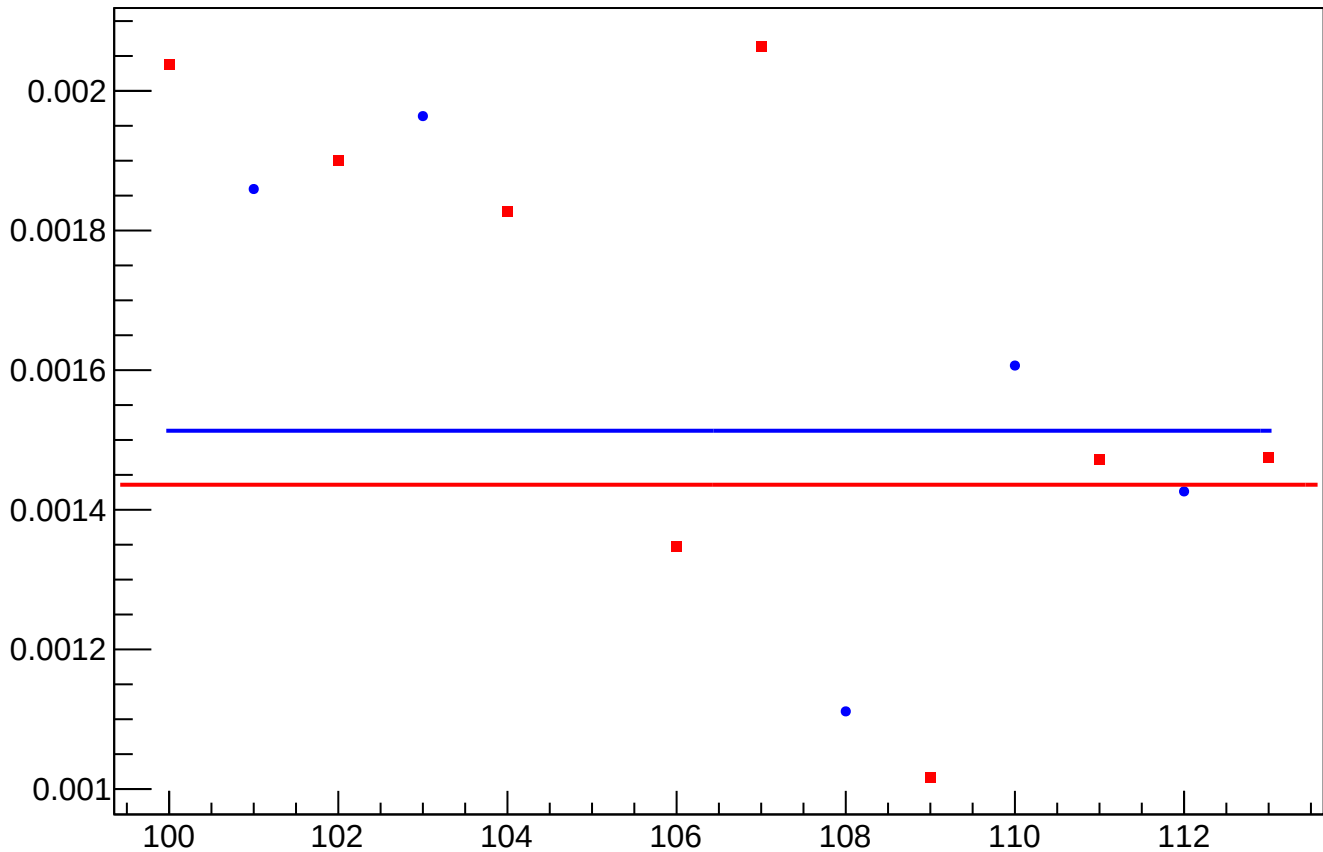
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 218330.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 345600.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

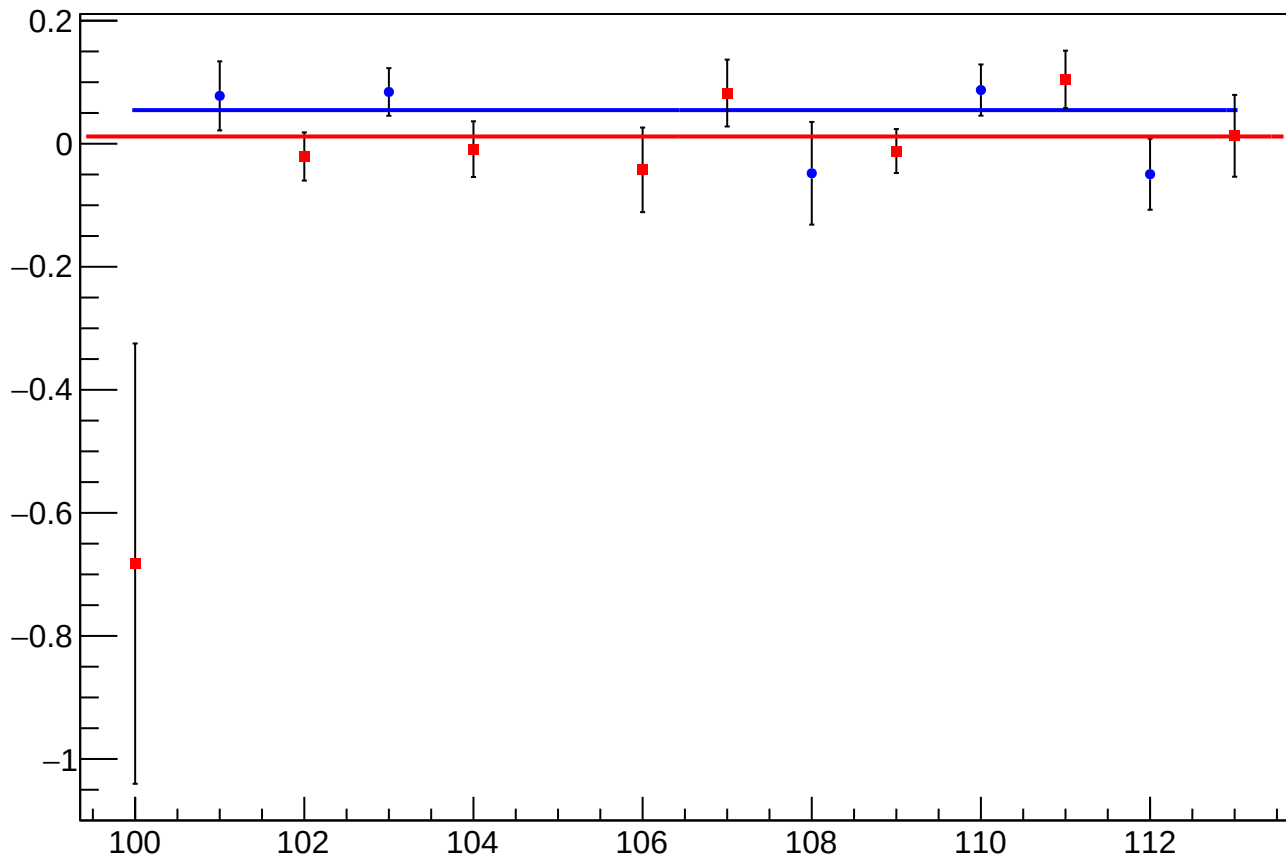
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 571252.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam6\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.055 $\pm$ 0.022  $\chi^2$ /NDF: 6.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.012 $\pm$ 0.018  $\chi^2$ /NDF: 11.4/7

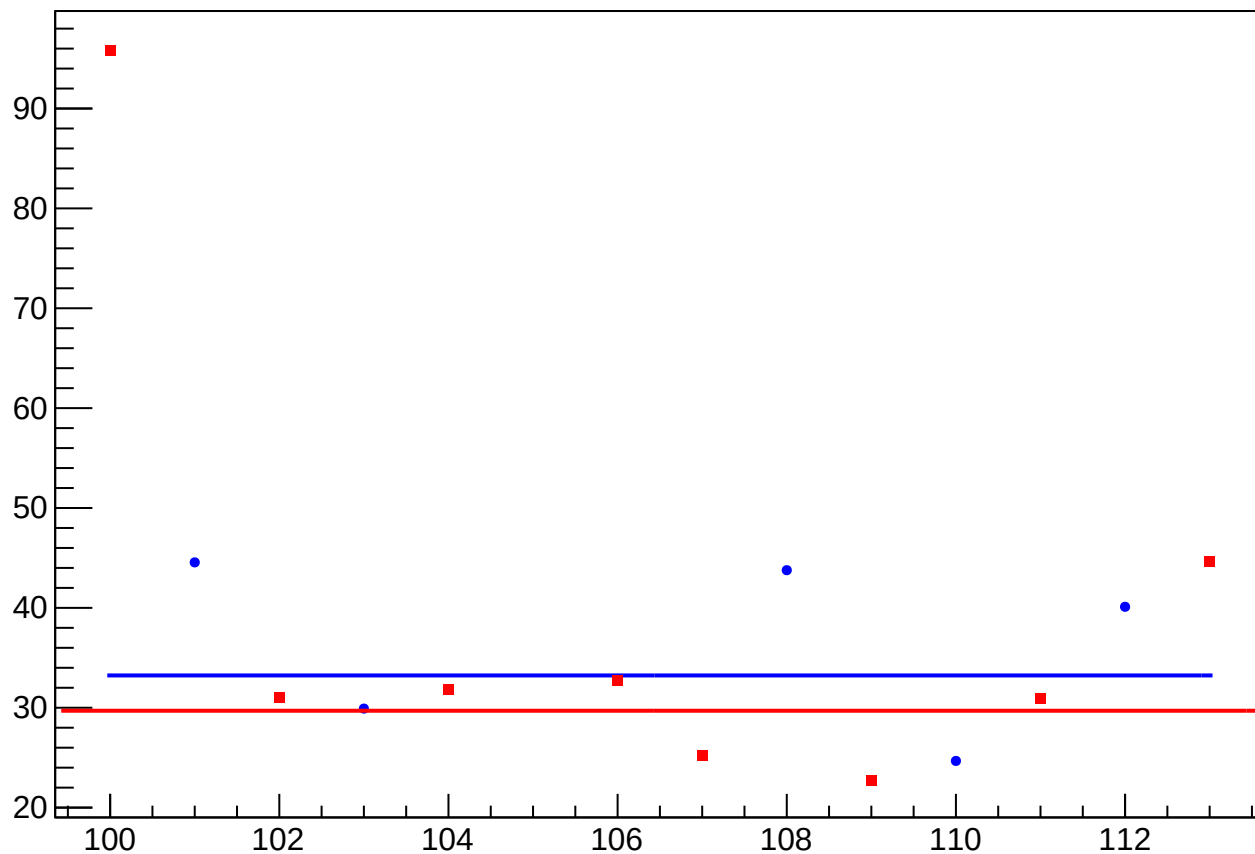
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.028 $\pm$ 0.014  $\chi^2$ /NDF: 19.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 33.235 $\pm$ 0.016  $\chi^2$ /NDF: 240803.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 29.701 $\pm$ 0.013  $\chi^2$ /NDF: 271134.5/7

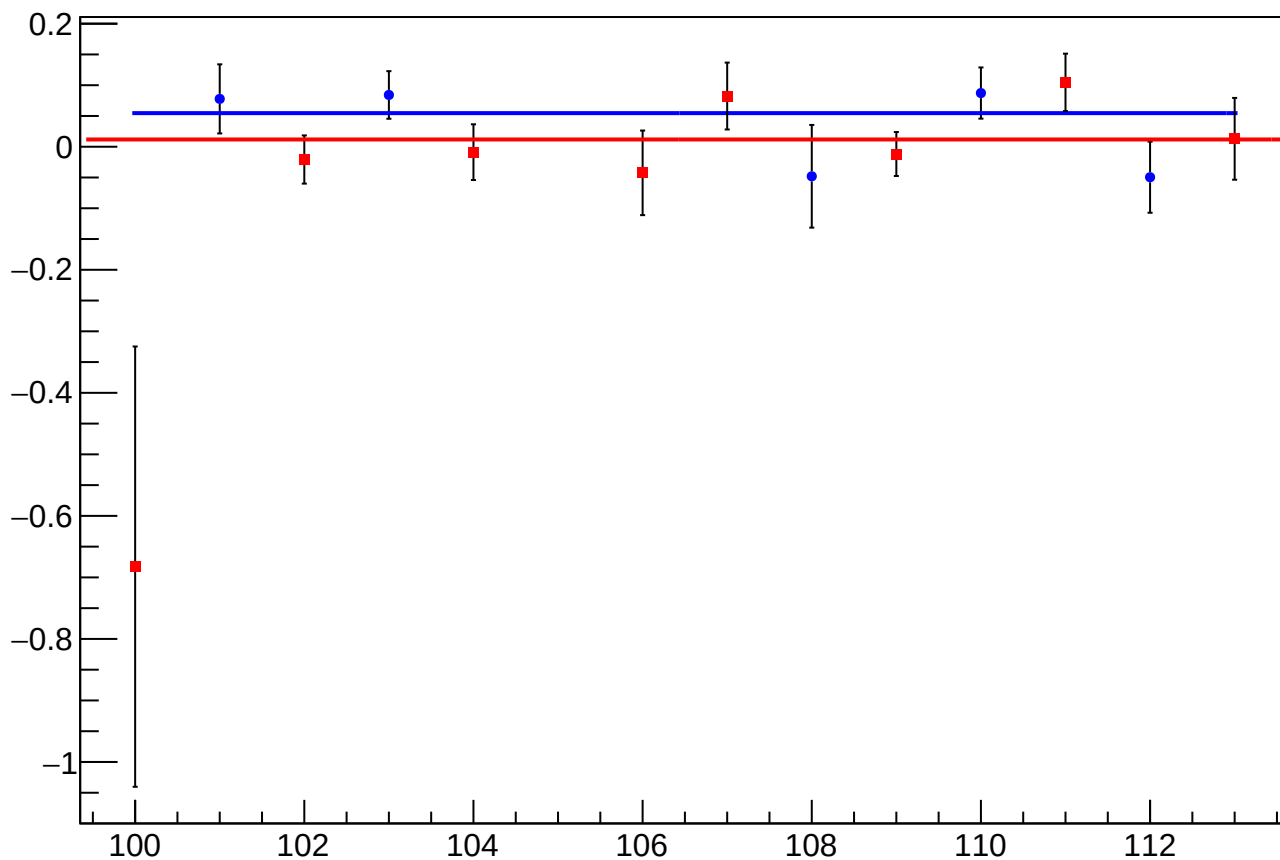
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.071 $\pm$ 0.010  $\chi^2$ /NDF: 542606.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam6\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.055 $\pm$ 0.022  $\chi^2$ /NDF: 6.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.012 $\pm$ 0.018  $\chi^2$ /NDF: 11.4/7

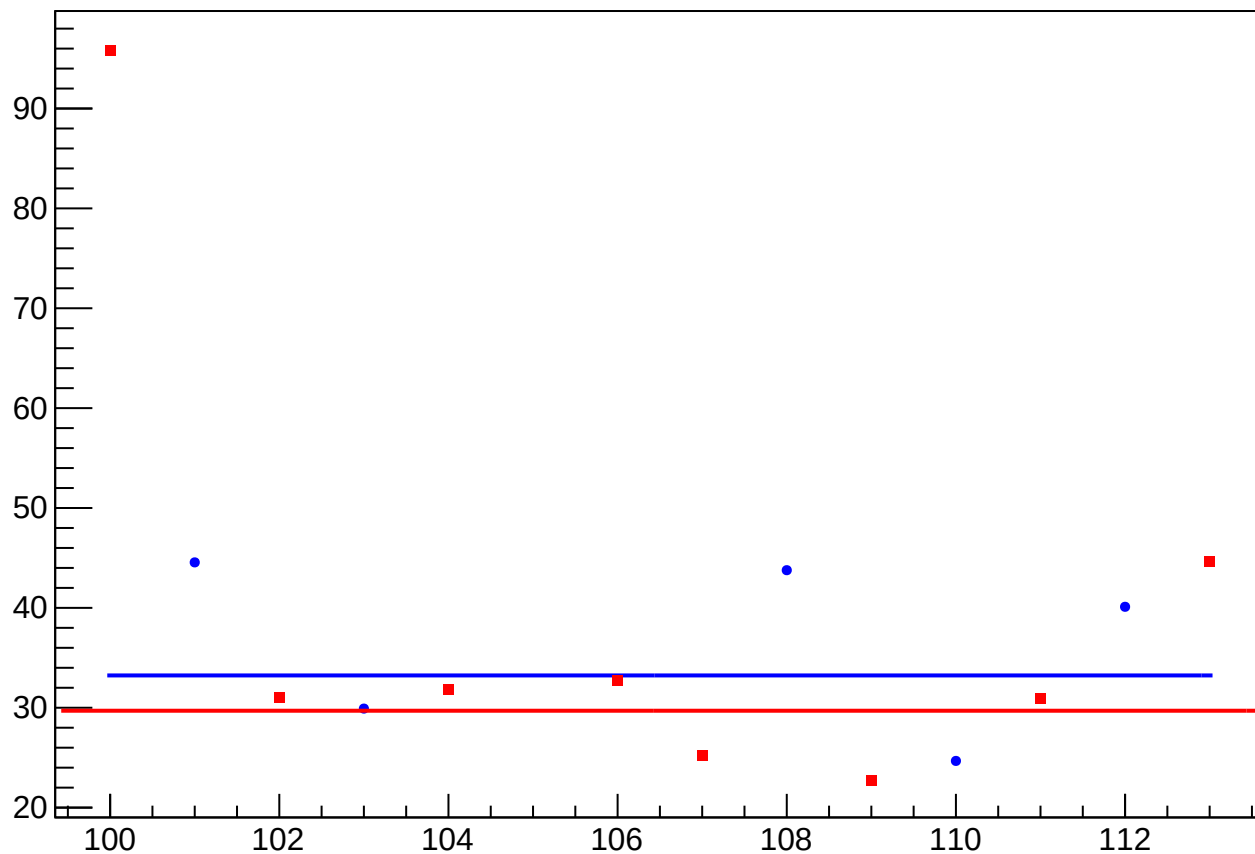
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.028 $\pm$ 0.014  $\chi^2$ /NDF: 19.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam6\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 33.235+/-0.016  $\chi^2/\text{NDF}$ : 240803.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.701+/-0.013  $\chi^2/\text{NDF}$ : 271134.5/7

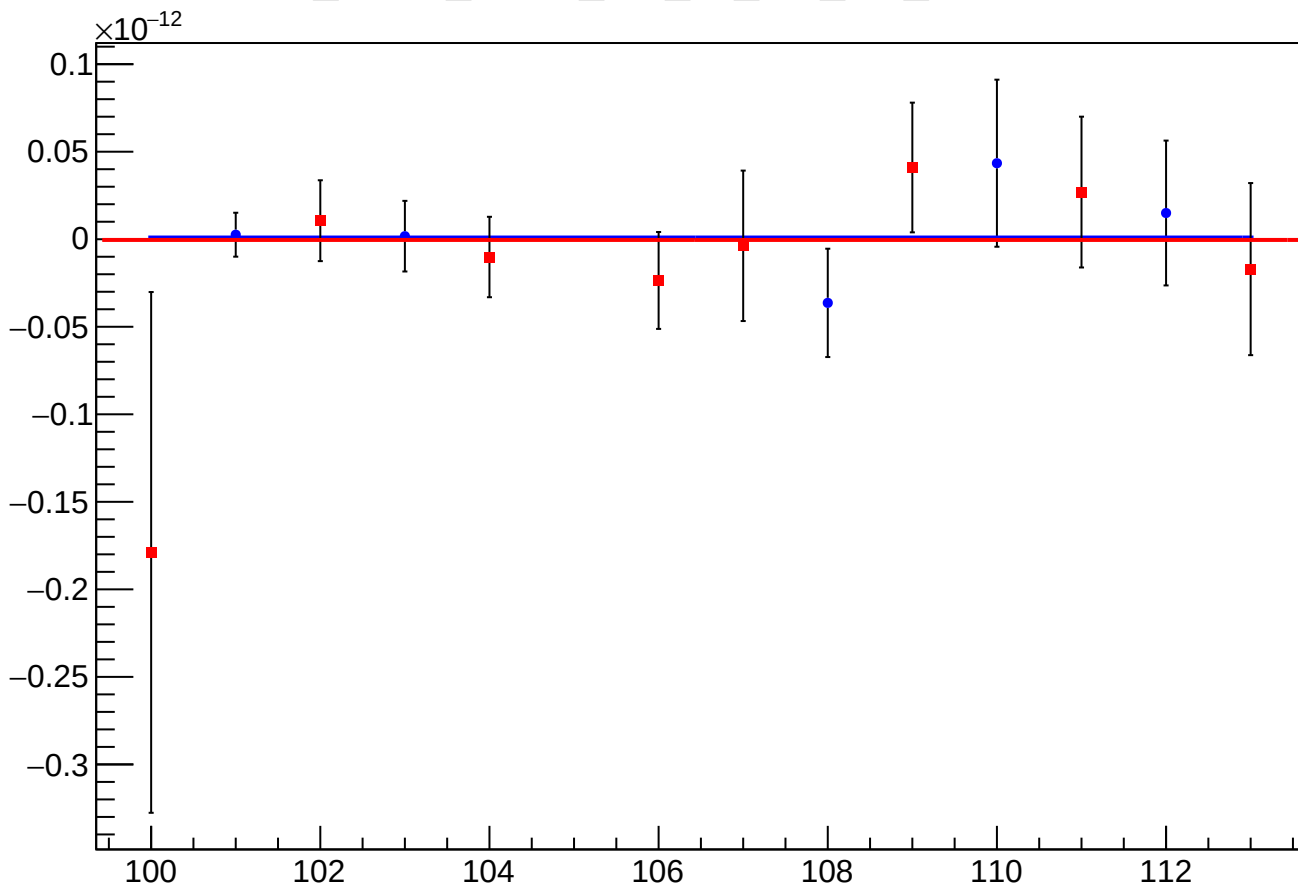
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.071+/-0.010  $\chi^2/\text{NDF}$ : 542606.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.3/7

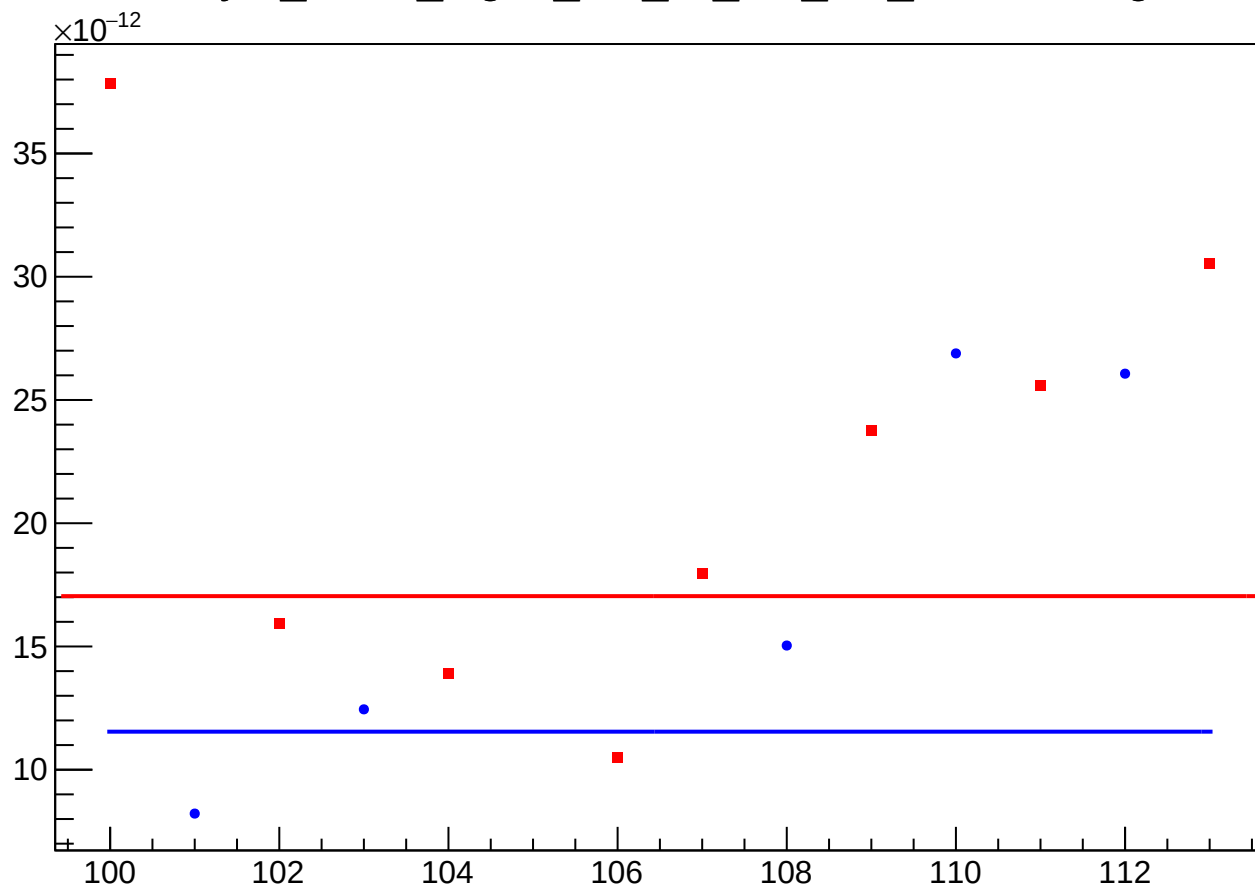
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 623169.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 489136.9/7

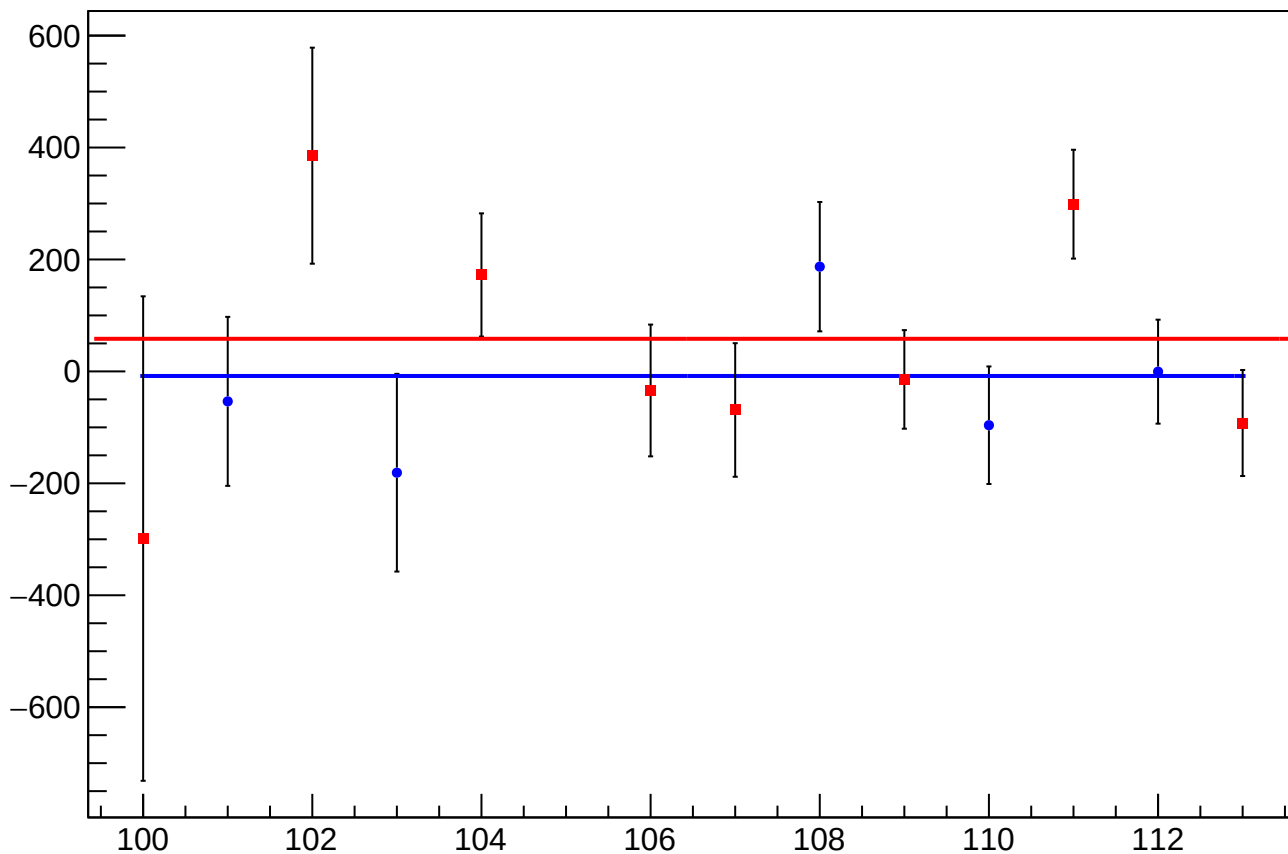
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1377394.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_mean vs Slug



Right In:  $-8.172 \pm 52.896$   $\chi^2/\text{NDF}$ : 4.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $58.250 \pm 40.718$   $\chi^2/\text{NDF}$ : 15.7/7

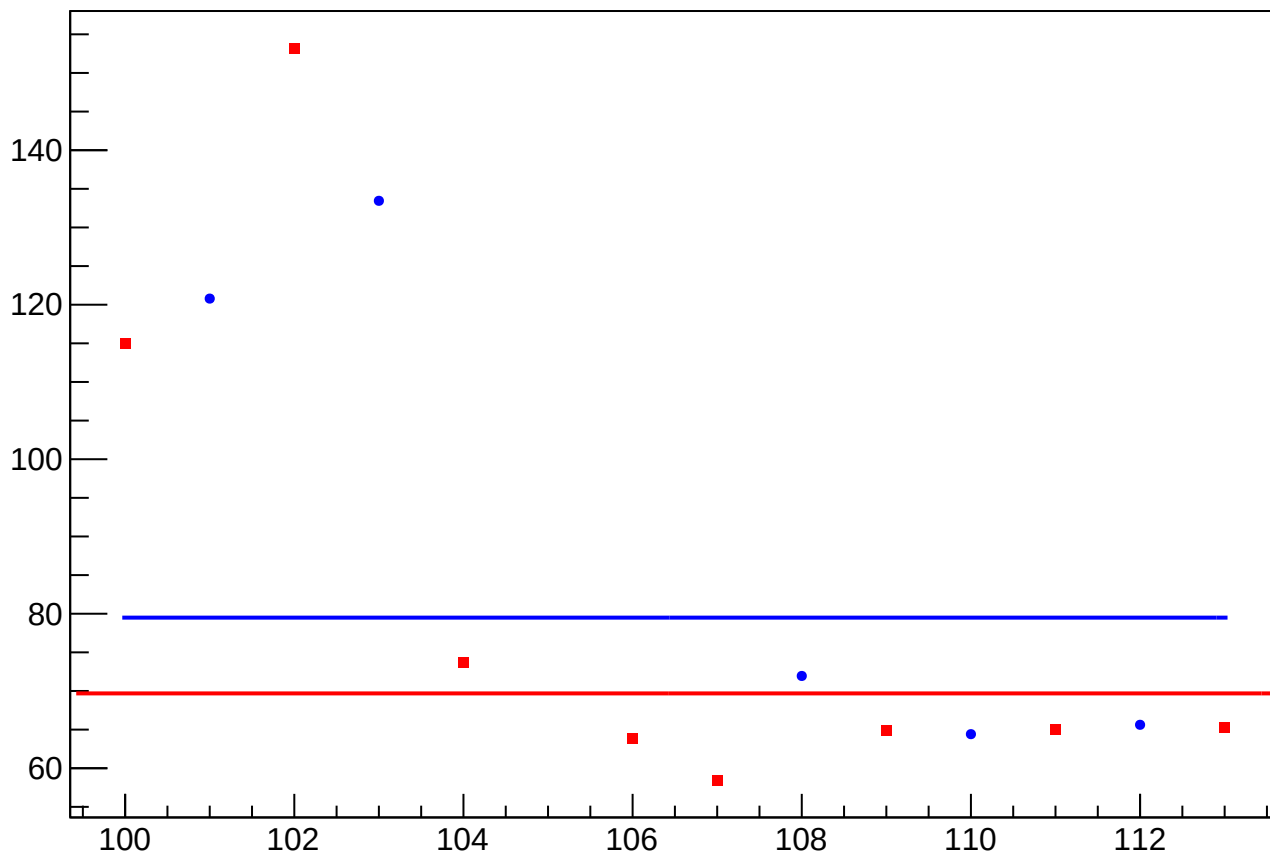
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $33.536 \pm 32.265$   $\chi^2/\text{NDF}$ : 21.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_rms vs Slug



Right In: 79.495+/-0.037  $\chi^2/\text{NDF}$ : 430660.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.686+/-0.029  $\chi^2/\text{NDF}$ : 435785.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

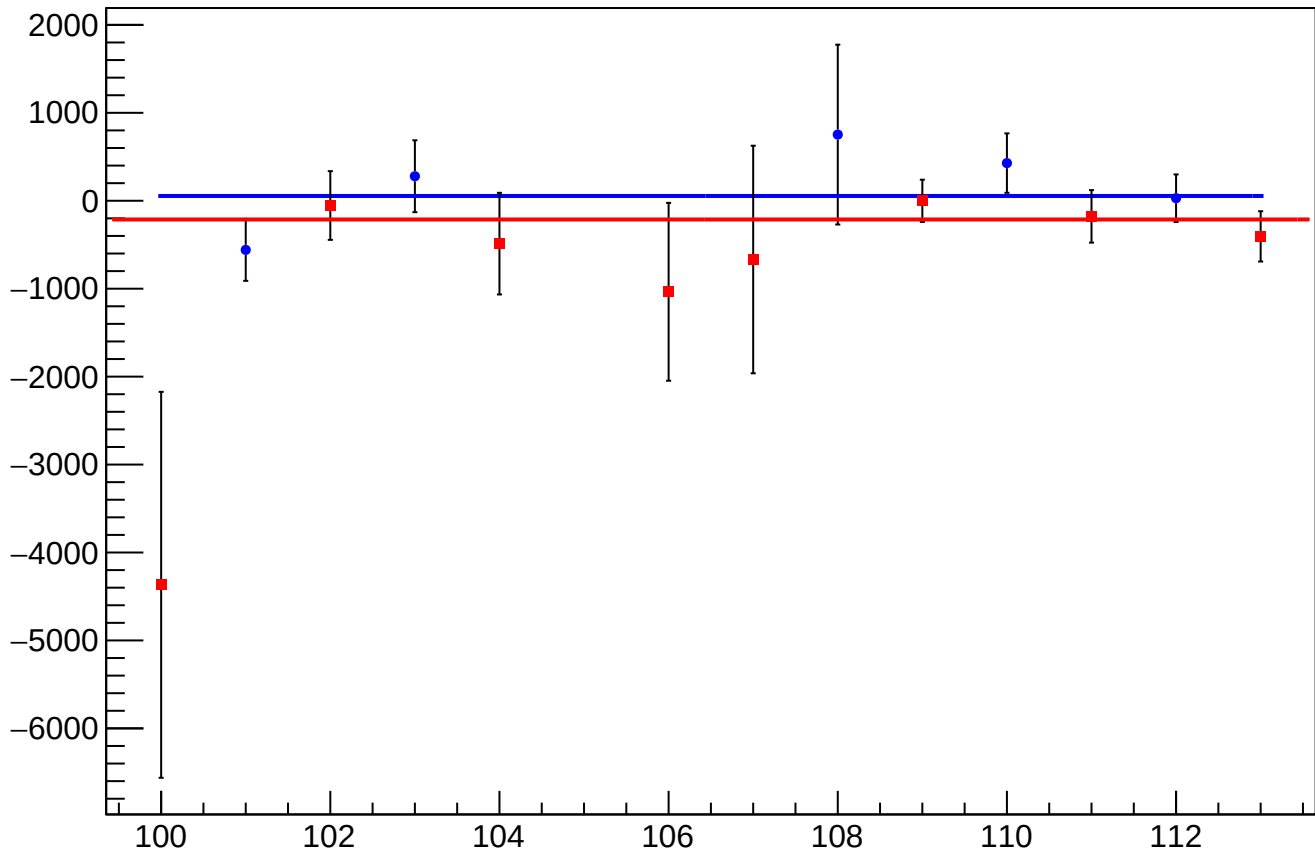
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 73.336+/-0.023  $\chi^2/\text{NDF}$ : 909628.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam7\_reg\_correction\_mean vs Slug



Right In: 54.410+/-163.386  $\chi^2/\text{NDF}$ : 5.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -212.653+/-138.499  $\chi^2/\text{NDF}$ : 6.0/7

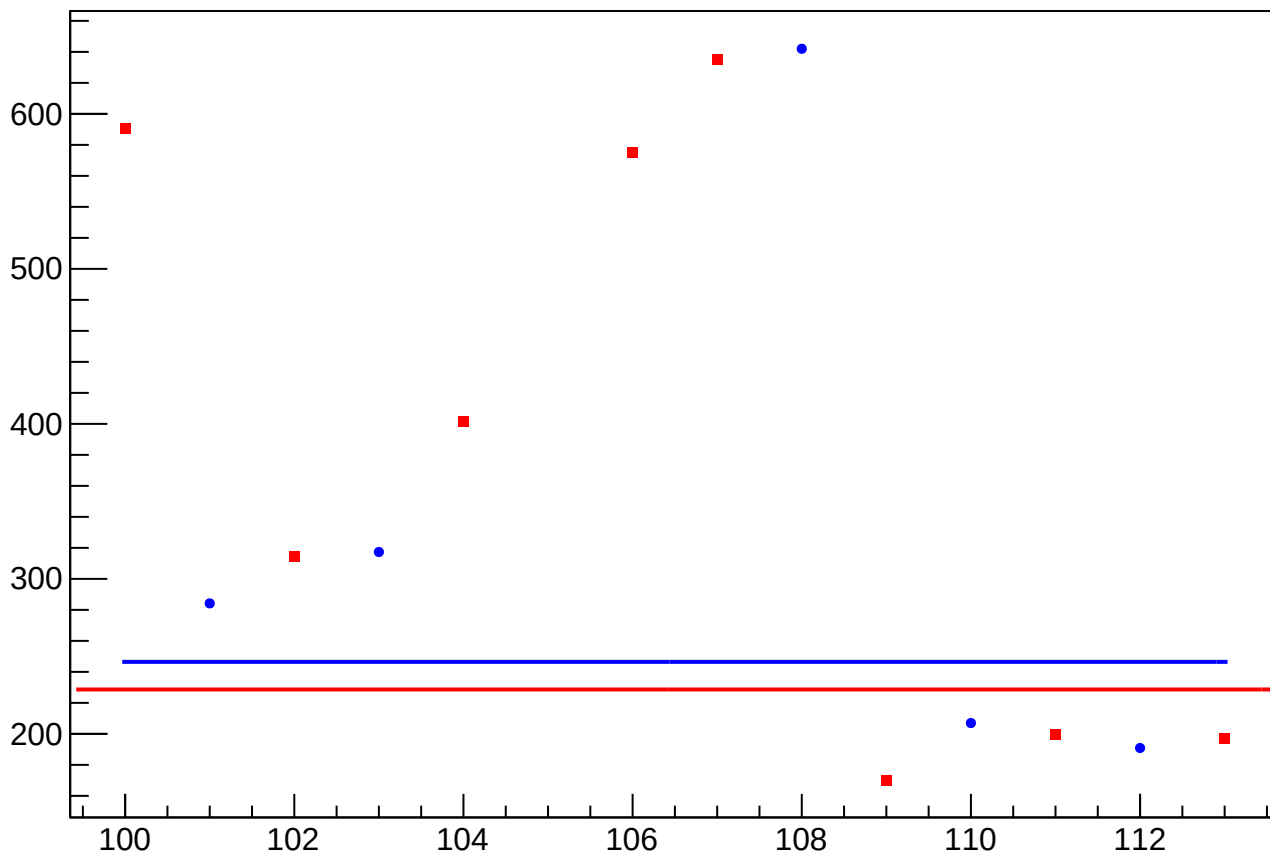
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -100.989+/-105.648  $\chi^2/\text{NDF}$ : 12.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_reg\_correction\_rms vs Slug



Right In: 246.455+/-0.116  $\chi^2/\text{NDF}$ : 494244.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 228.637+/-0.098  $\chi^2/\text{NDF}$ : 924671.2/7

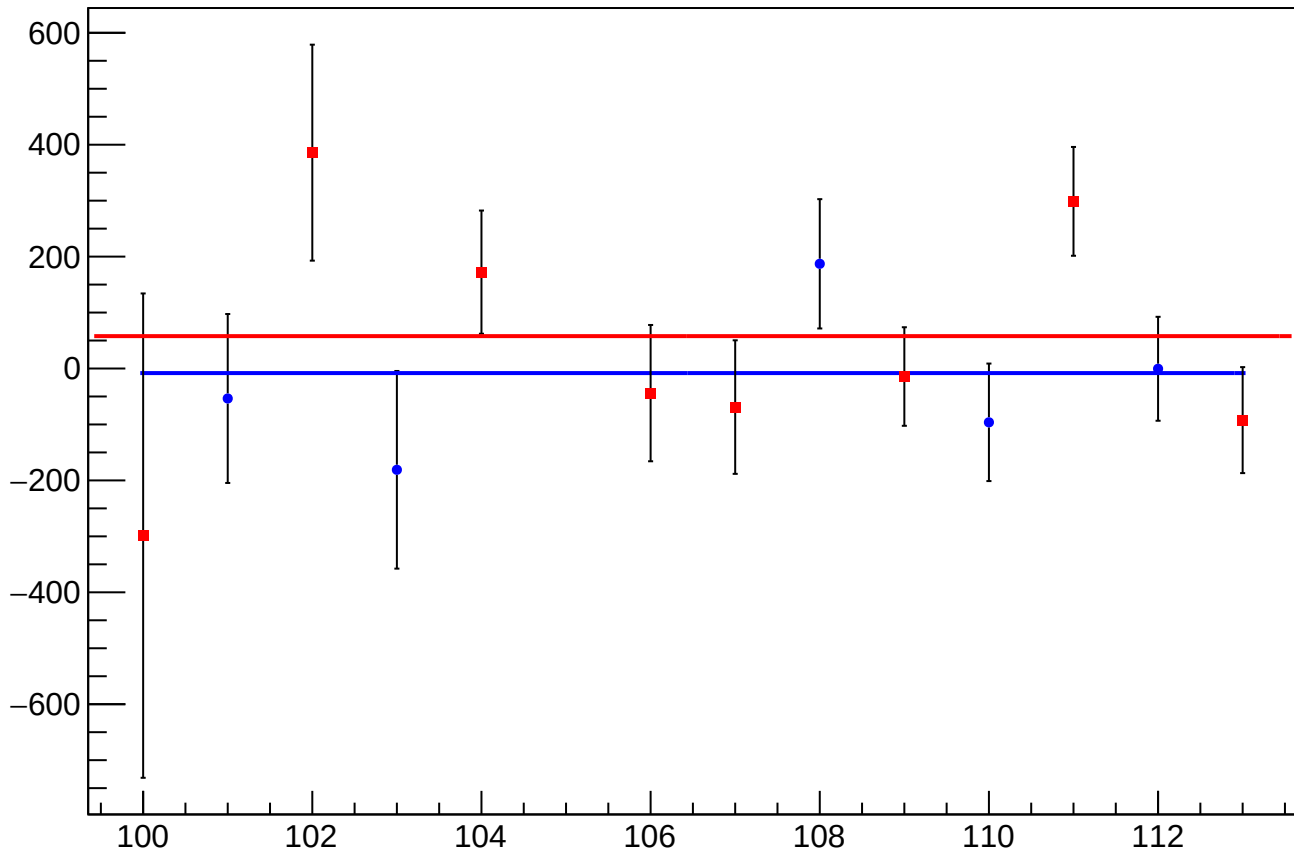
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 236.087+/-0.075  $\chi^2/\text{NDF}$ : 1432755.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam7\_mean vs Slug



Right In: -8.173+/-52.896  $\chi^2/\text{NDF}$ : 4.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 57.875+/-40.879  $\chi^2/\text{NDF}$ : 15.8/7

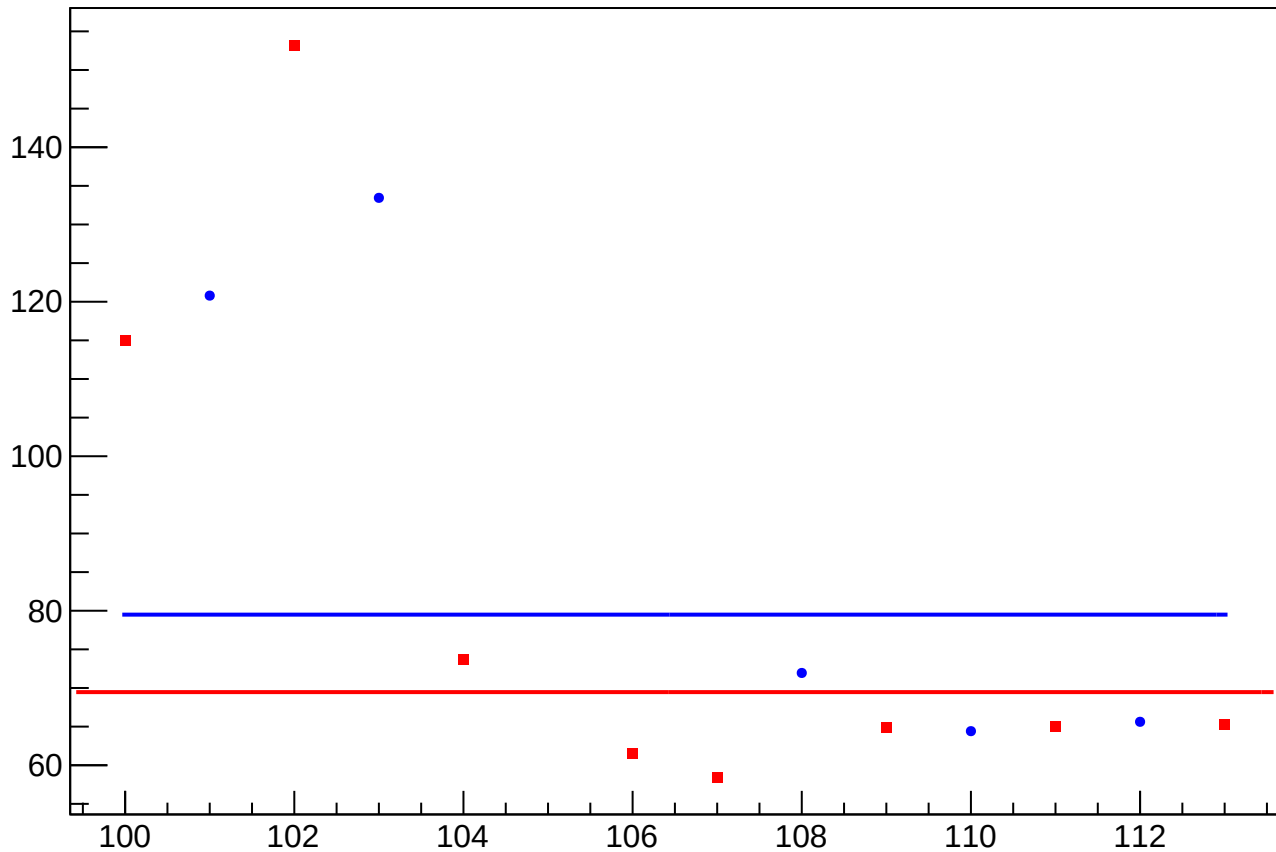
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.178+/-32.345  $\chi^2/\text{NDF}$ : 21.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam7\_rms vs Slug



Right In: 79.495 $\pm$ 0.037  $\chi^2$ /NDF: 430660.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 69.466 $\pm$ 0.029  $\chi^2$ /NDF: 439861.5/7

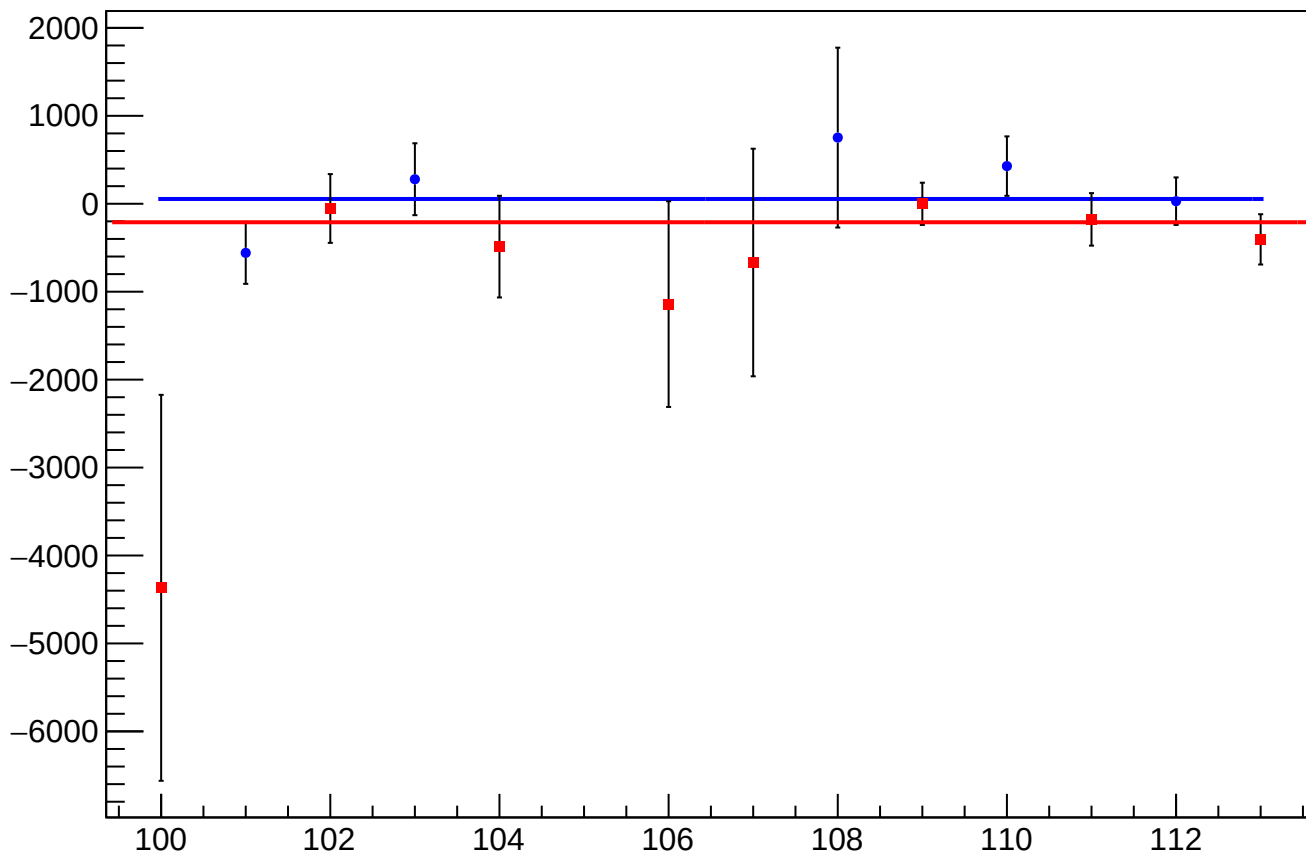
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 73.216 $\pm$ 0.023  $\chi^2$ /NDF: 915533.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_cor\_correction\_mean vs Slug



Right In: 54.418+/-163.388  $\chi^2/\text{NDF}$ : 5.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -210.242+/-138.835  $\chi^2/\text{NDF}$ : 6.0/7

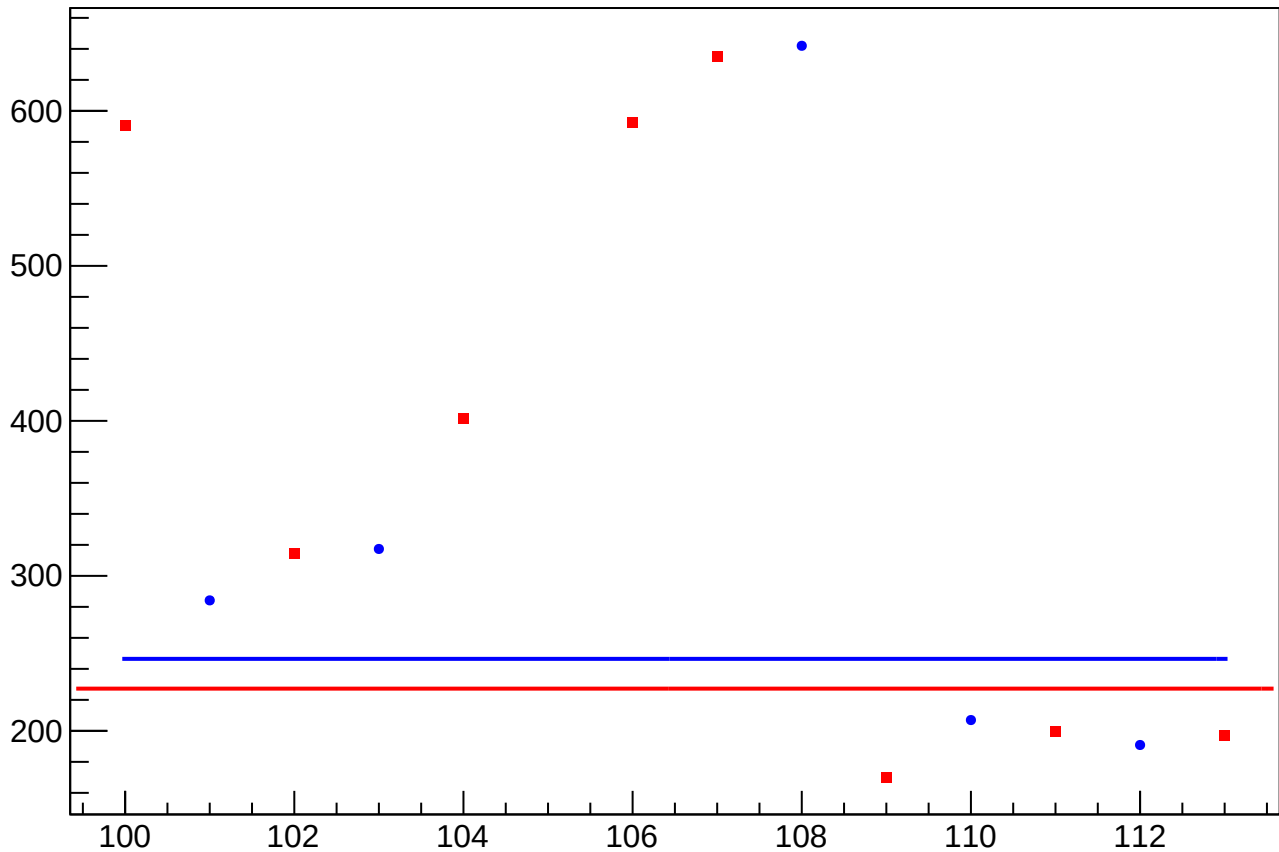
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -99.272+/-105.798  $\chi^2/\text{NDF}$ : 12.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_cor\_correction\_rms vs Slug



Right In: 246.457 $\pm$ 0.116  $\chi^2$ /NDF: 494271.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 227.251 $\pm$ 0.098  $\chi^2$ /NDF: 884098.8/7

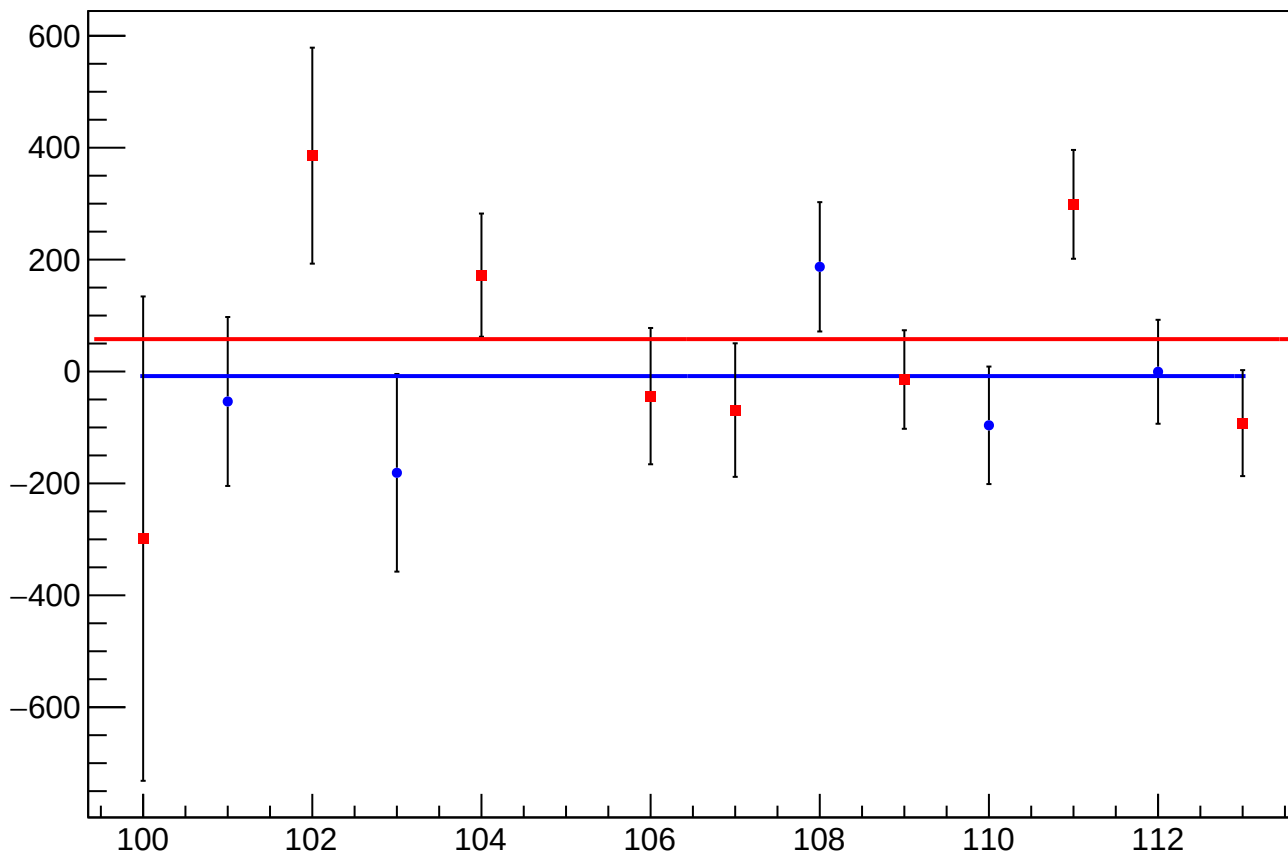
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 235.304 $\pm$ 0.075  $\chi^2$ /NDF: 1394417.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam7\_mean vs Slug



Right In:  $-8.173 \pm 52.896$   $\chi^2/\text{NDF}$ : 4.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $57.875 \pm 40.879$   $\chi^2/\text{NDF}$ : 15.8/7

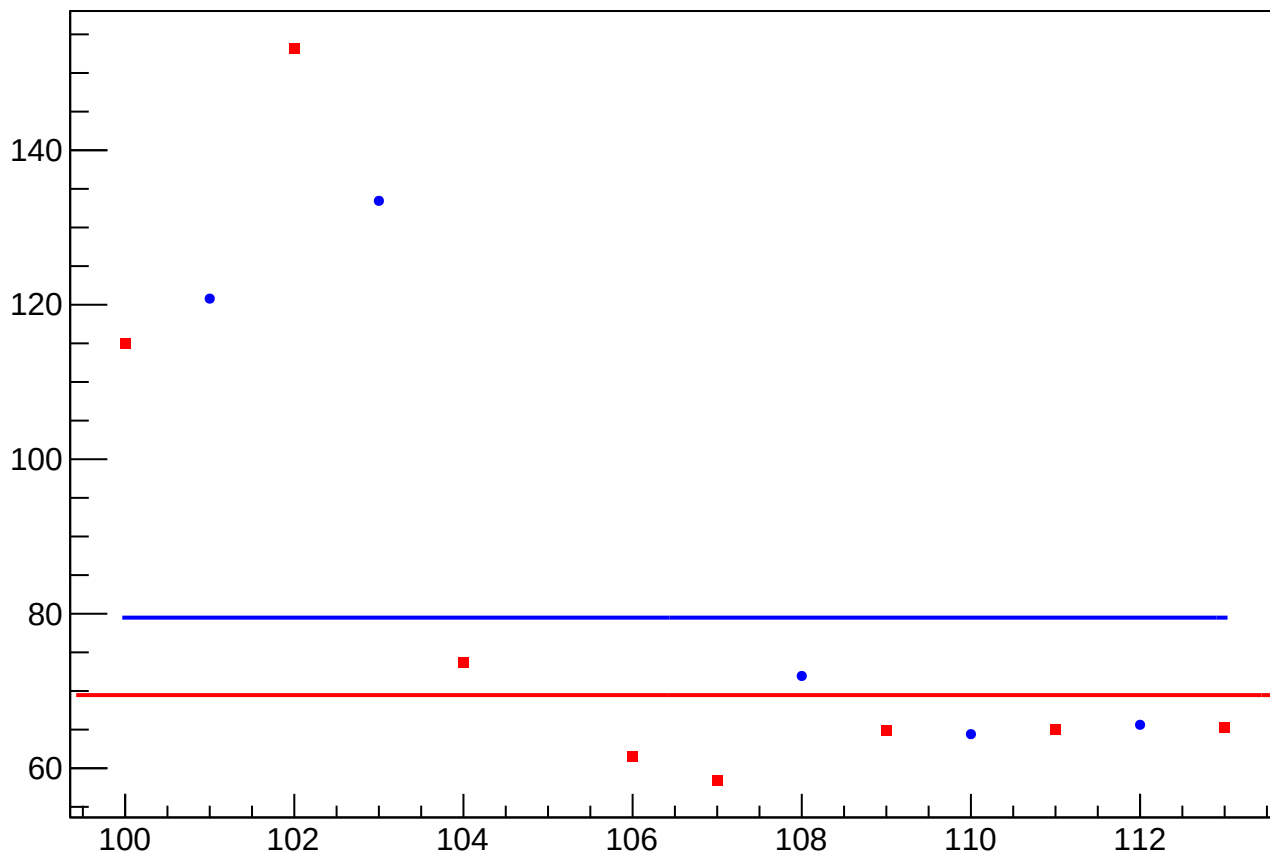
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $33.178 \pm 32.345$   $\chi^2/\text{NDF}$ : 21.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam7\_rms vs Slug



Right In: 79.495+/-0.037  $\chi^2/\text{NDF}$ : 430660.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.466+/-0.029  $\chi^2/\text{NDF}$ : 439861.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

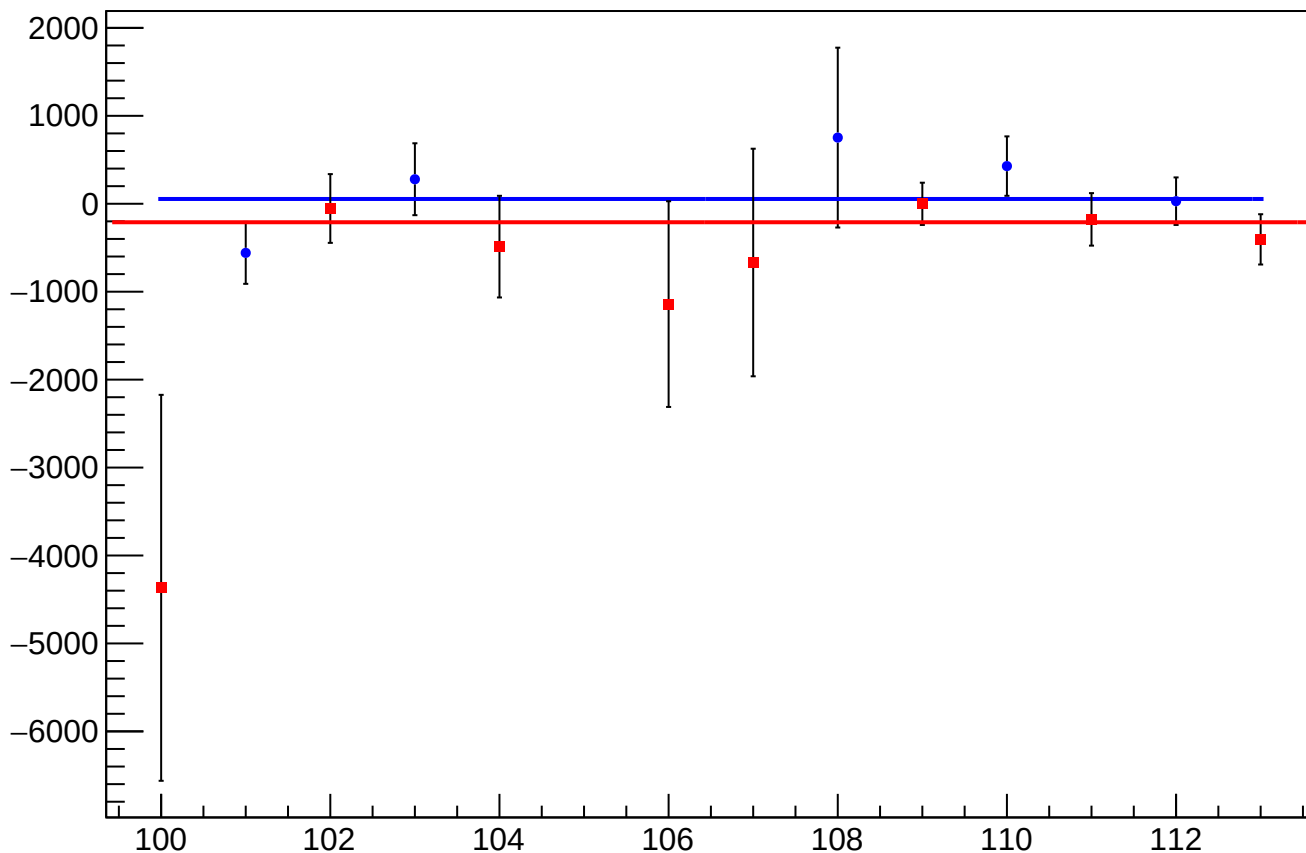
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 73.216+/-0.023  $\chi^2/\text{NDF}$ : 915533.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam7\_eigen\_cor\_correction\_mean vs Slug



Right In: 54.418+/-163.388  $\chi^2/\text{NDF}$ : 5.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -210.242+/-138.835  $\chi^2/\text{NDF}$ : 6.0/7

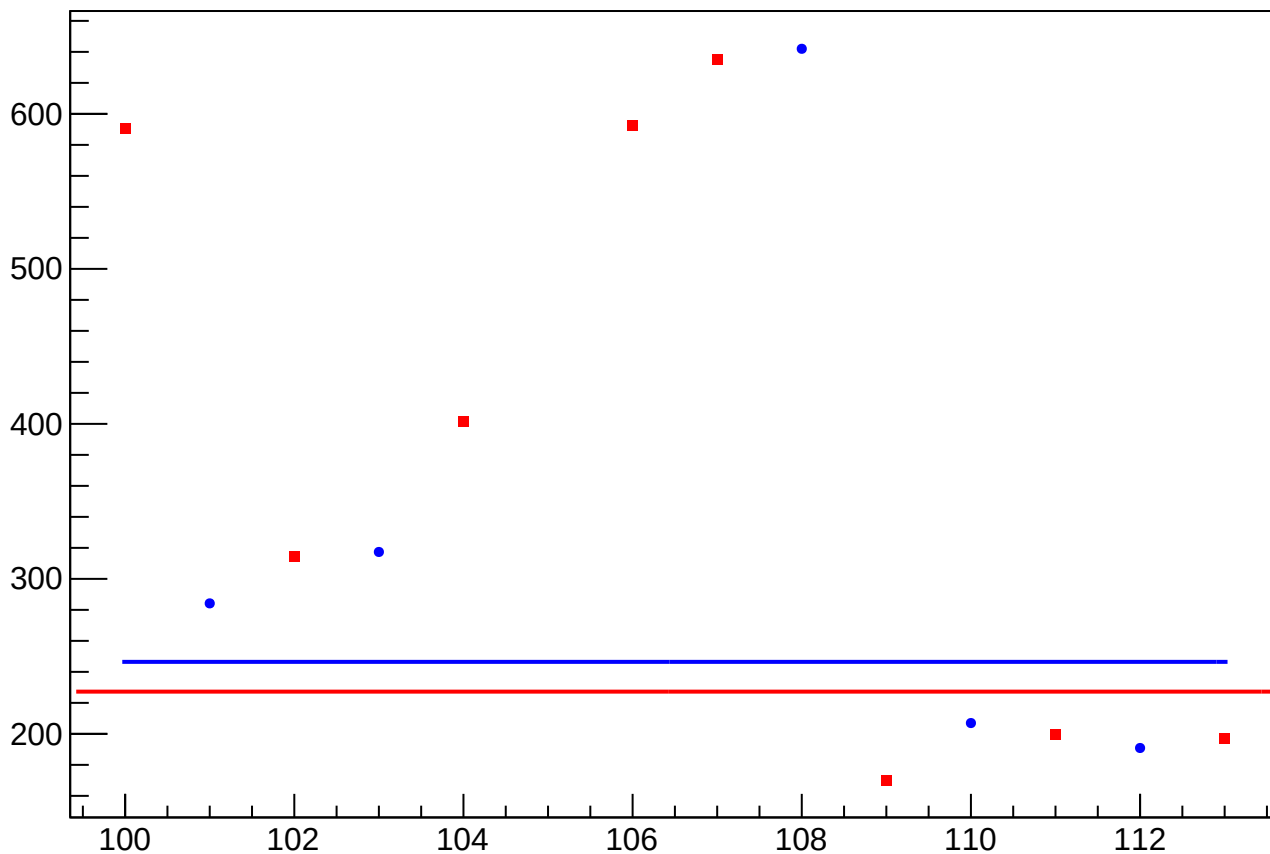
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -99.272+/-105.798  $\chi^2/\text{NDF}$ : 12.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_eigen\_cor\_correction\_rms vs Slug



Right In: 246.457+/-0.116  $\chi^2/\text{NDF}$ : 494271.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 227.251+/-0.098  $\chi^2/\text{NDF}$ : 884098.8/7

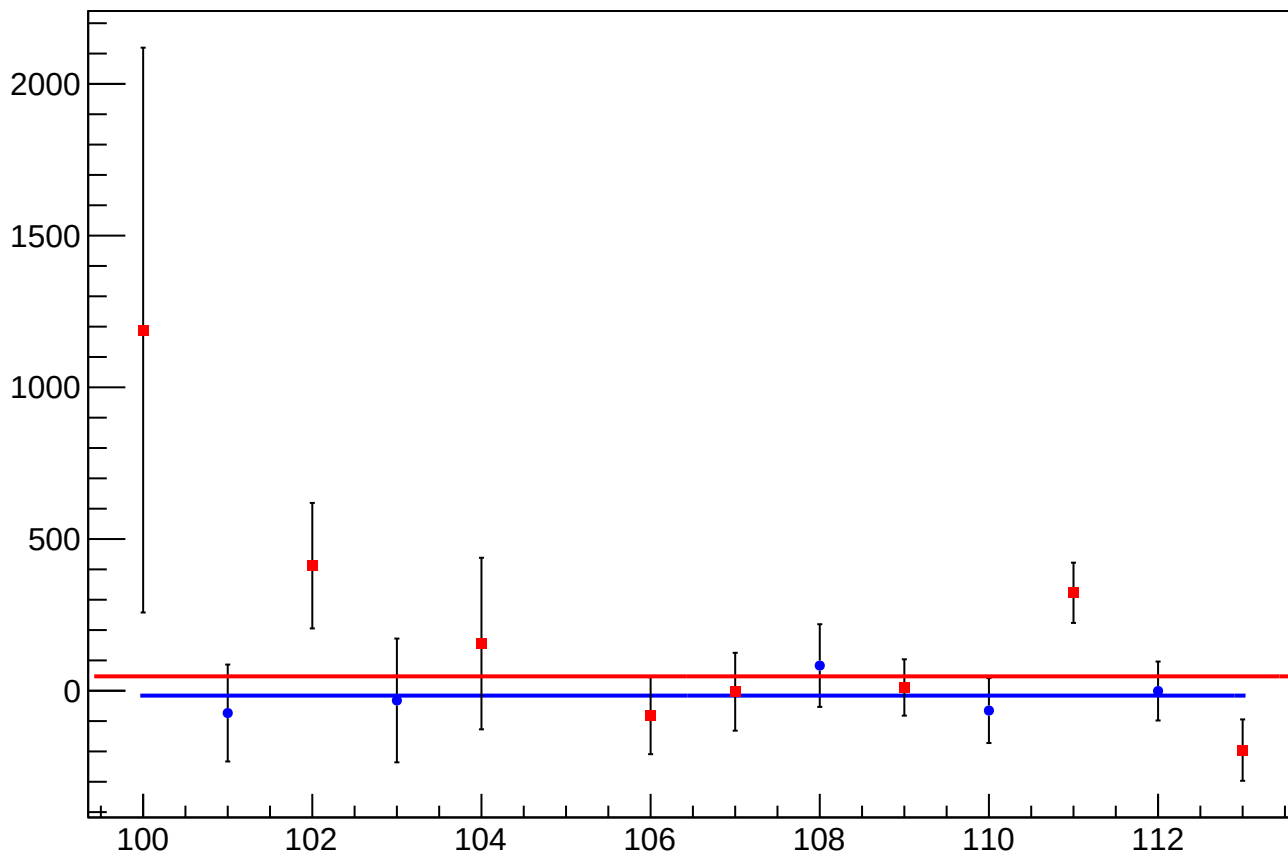
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 235.304+/-0.075  $\chi^2/\text{NDF}$ : 1394417.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam7\_mean vs Slug



Right In:  $-16.035 \pm 56.750$   $\chi^2/\text{NDF}$ : 0.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $47.488 \pm 45.881$   $\chi^2/\text{NDF}$ : 19.6/7

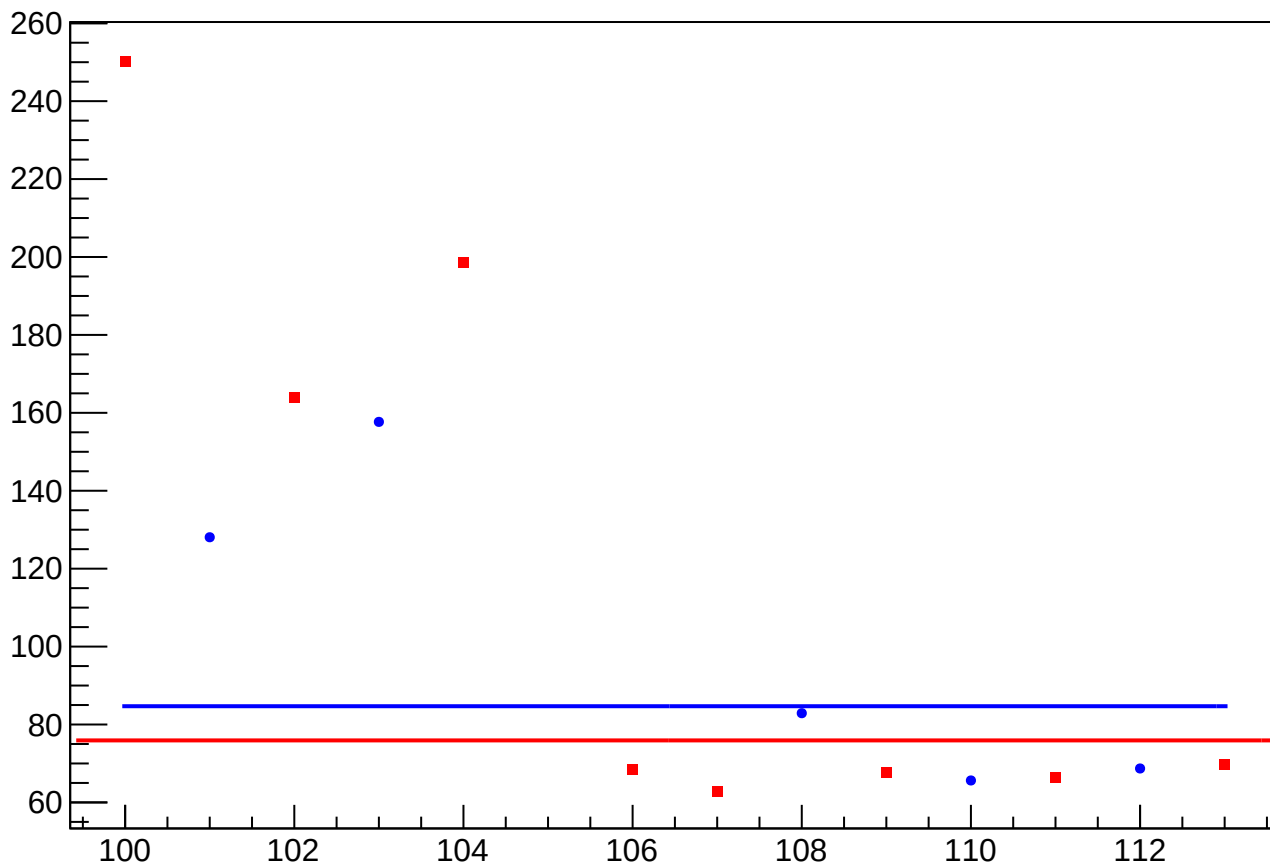
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $22.379 \pm 35.679$   $\chi^2/\text{NDF}$ : 21.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam7\_rms vs Slug



Right In: 84.694+/-0.040  $\chi^2/\text{NDF}$ : 521595.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 75.919+/-0.032  $\chi^2/\text{NDF}$ : 878679.9/7

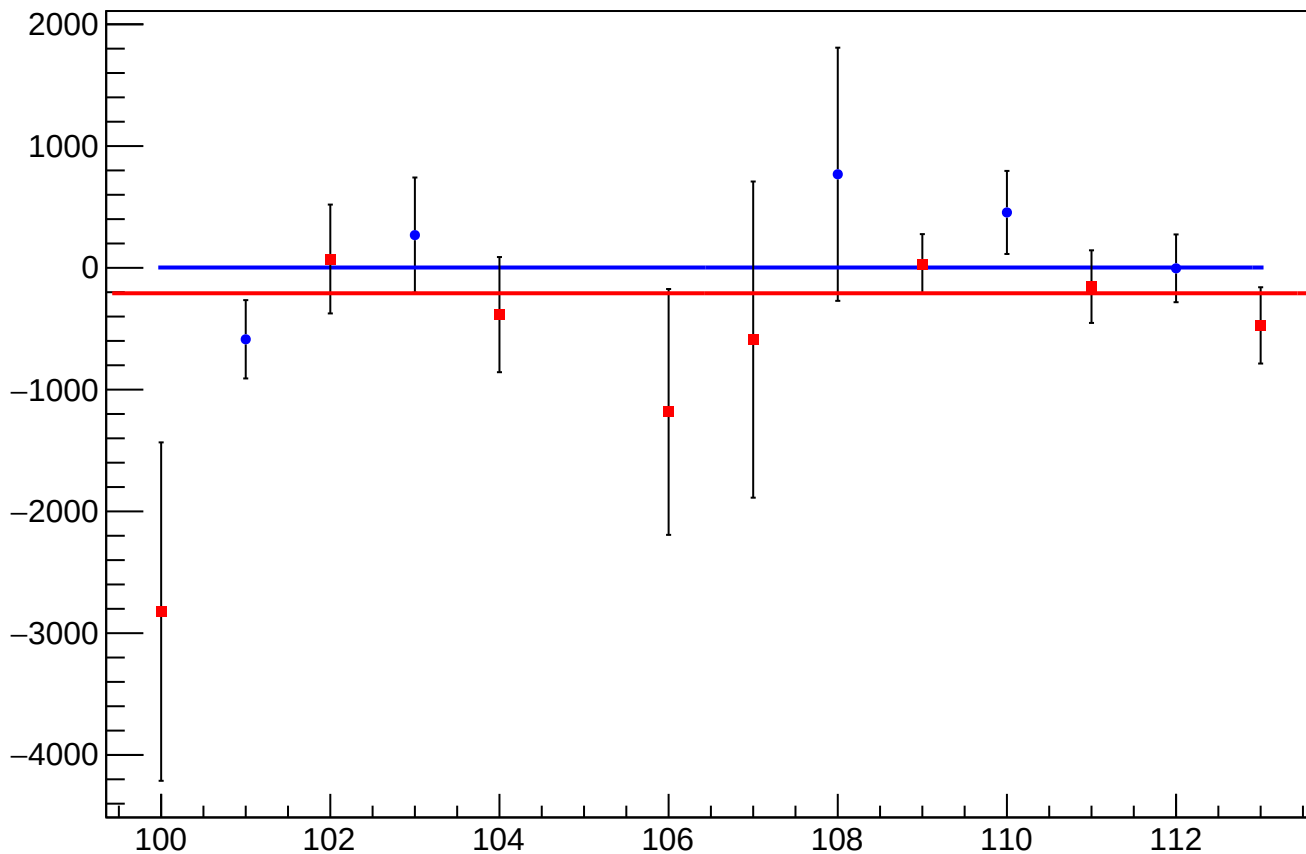
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 79.387+/-0.025  $\chi^2/\text{NDF}$ : 1429191.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_dit\_correction\_mean vs Slug



Right In: 2.814 $\pm$ 165.356  $\chi^2$ /NDF: 6.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -208.717 $\pm$ 141.972  $\chi^2$ /NDF: 6.8/7

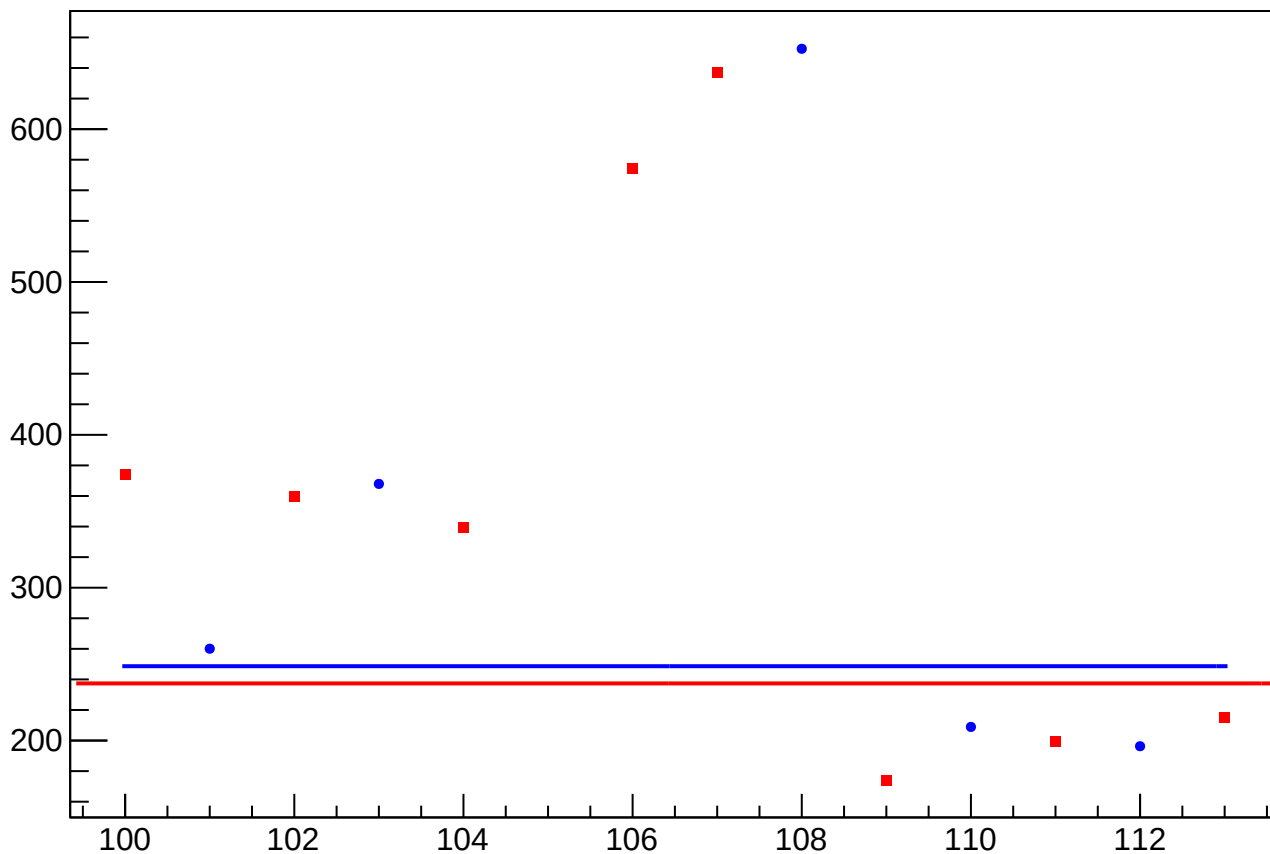
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -118.954 $\pm$ 107.716  $\chi^2$ /NDF: 13.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_dit\_correction\_rms vs Slug



Right In: 248.644 $\pm$ 0.117  $\chi^2$ /NDF: 529618.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 237.391 $\pm$ 0.100  $\chi^2$ /NDF: 852654.4/7

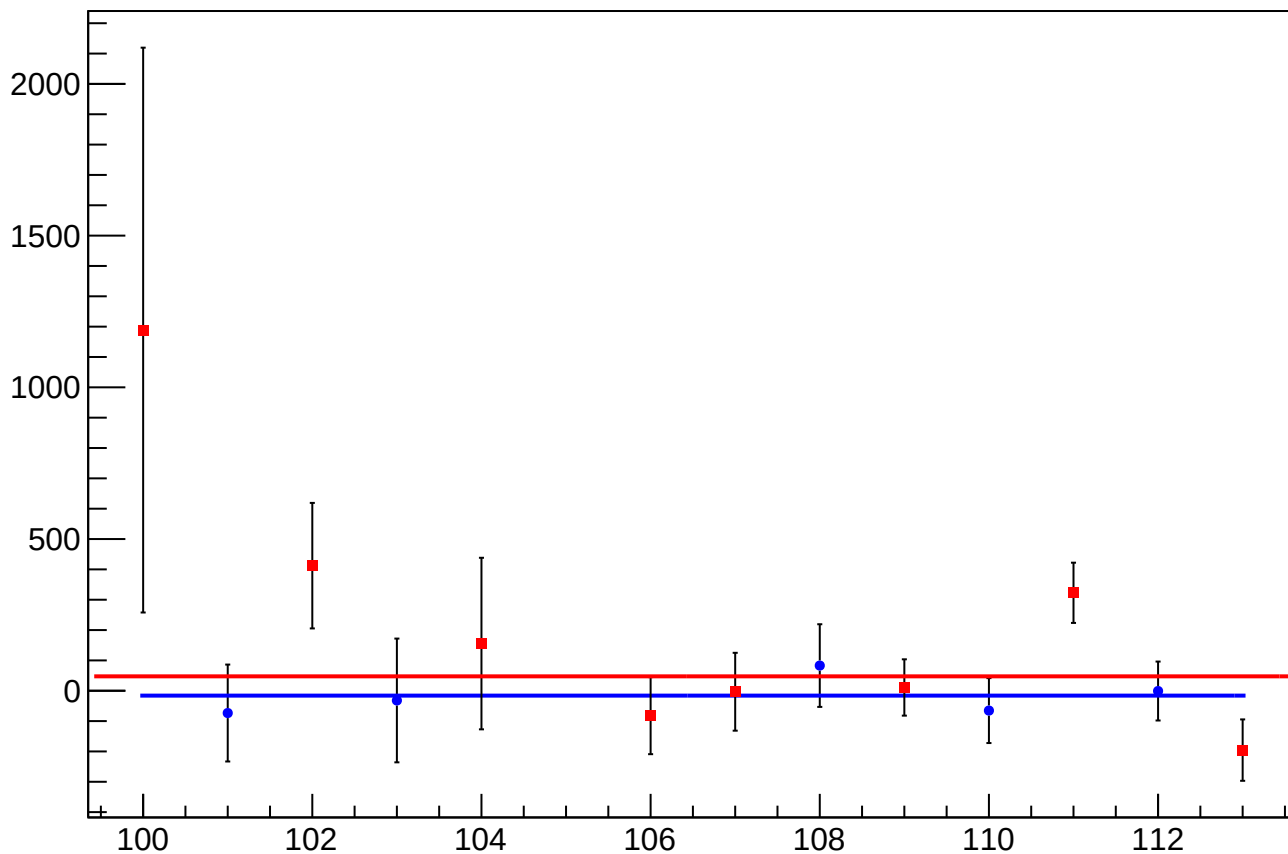
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 242.166 $\pm$ 0.076  $\chi^2$ /NDF: 1387605.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam7\_mean vs Slug



Right In: -16.038 $\pm$ 56.750  $\chi^2$ /NDF: 0.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 47.489 $\pm$ 45.881  $\chi^2$ /NDF: 19.6/7

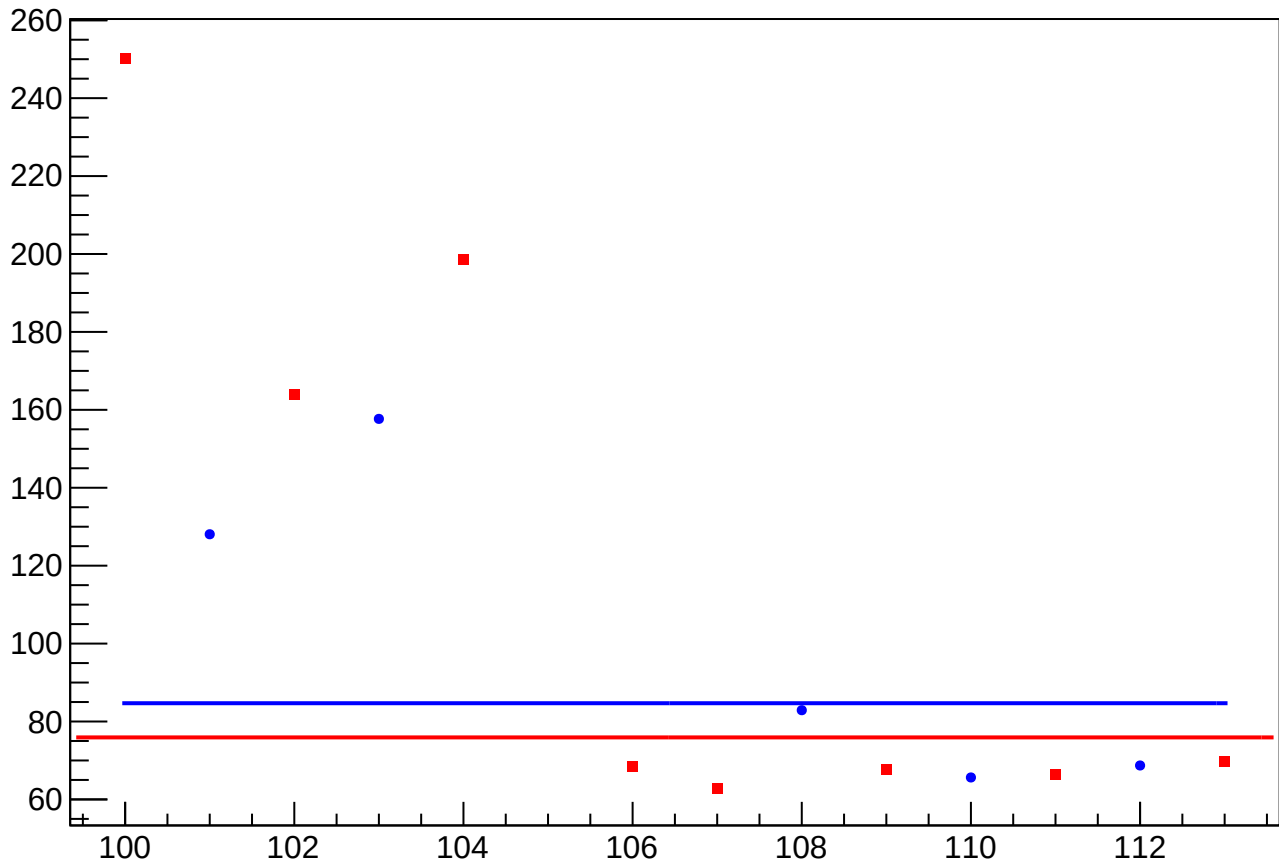
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 22.379 $\pm$ 35.679  $\chi^2$ /NDF: 21.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam7\_rms vs Slug



Right In: 84.694 $\pm$ 0.040  $\chi^2$ /NDF: 521597.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 75.919 $\pm$ 0.032  $\chi^2$ /NDF: 878680.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

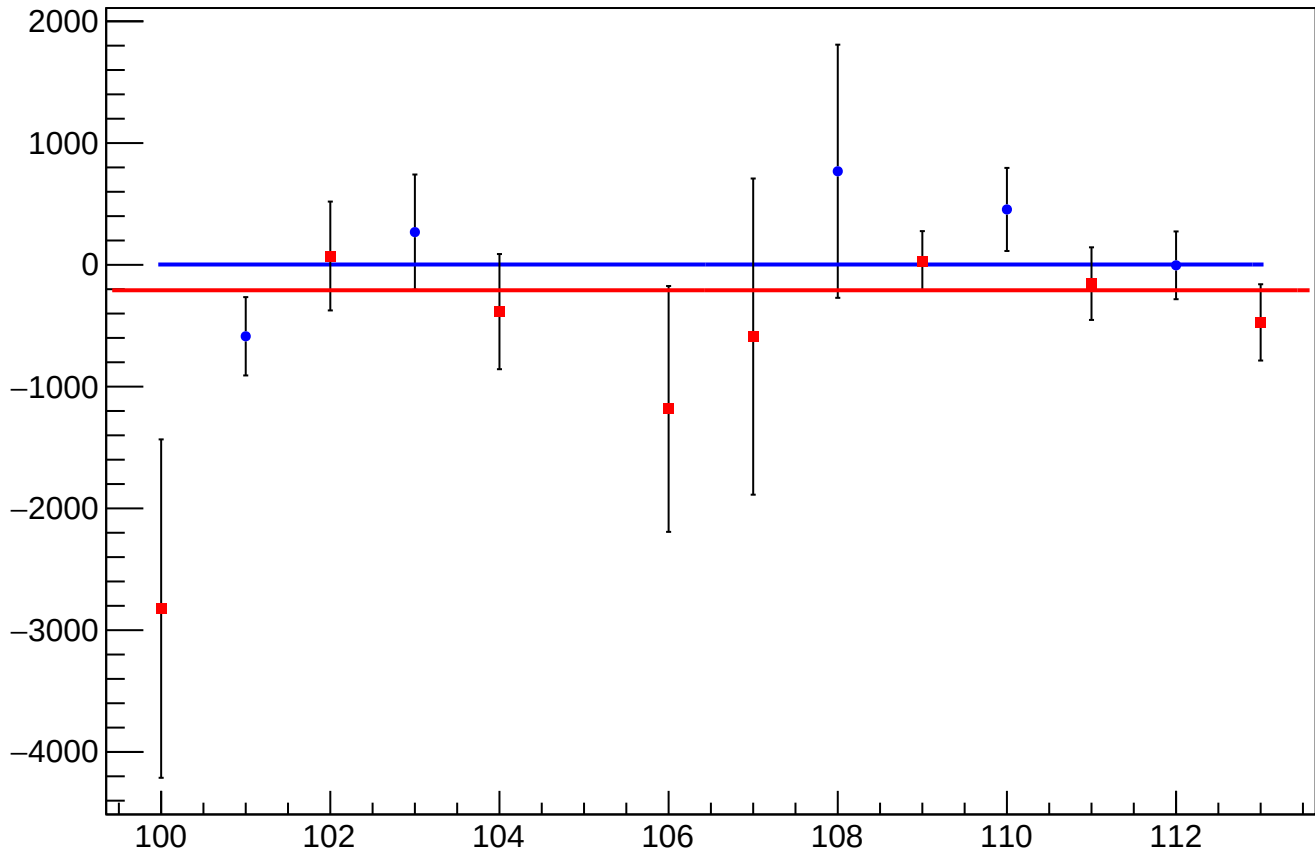
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 79.387 $\pm$ 0.025  $\chi^2$ /NDF: 1429194.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam7\_eigen\_dit\_correction\_mean vs Slug



Right In: 2.814+/-165.355  $\chi^2/\text{NDF}$ : 6.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -208.716+/-141.971  $\chi^2/\text{NDF}$ : 6.8/7

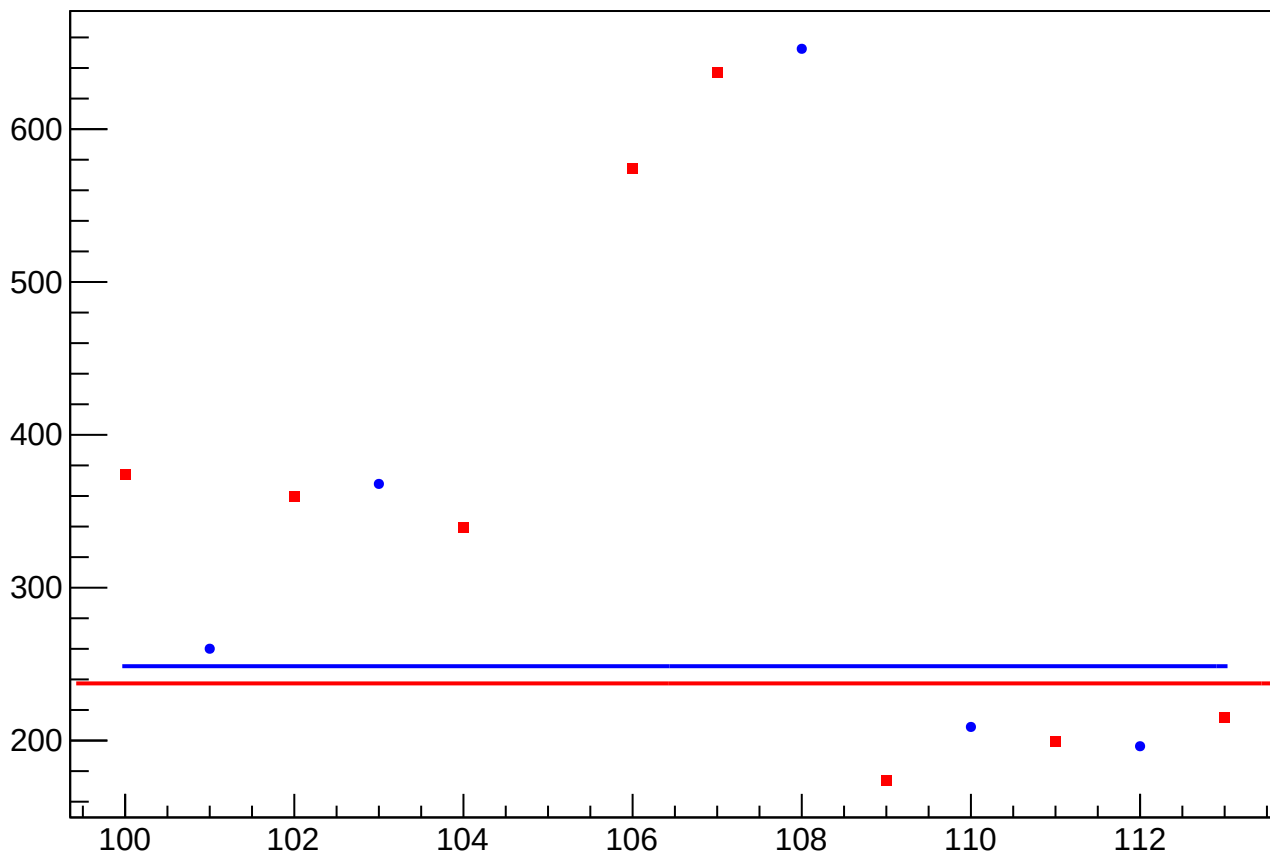
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -118.954+/-107.716  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_eigen\_dit\_correction\_rms vs Slug



Right In: 248.642 $\pm$ 0.117  $\chi^2$ /NDF: 529630.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 237.389 $\pm$ 0.100  $\chi^2$ /NDF: 852658.7/7

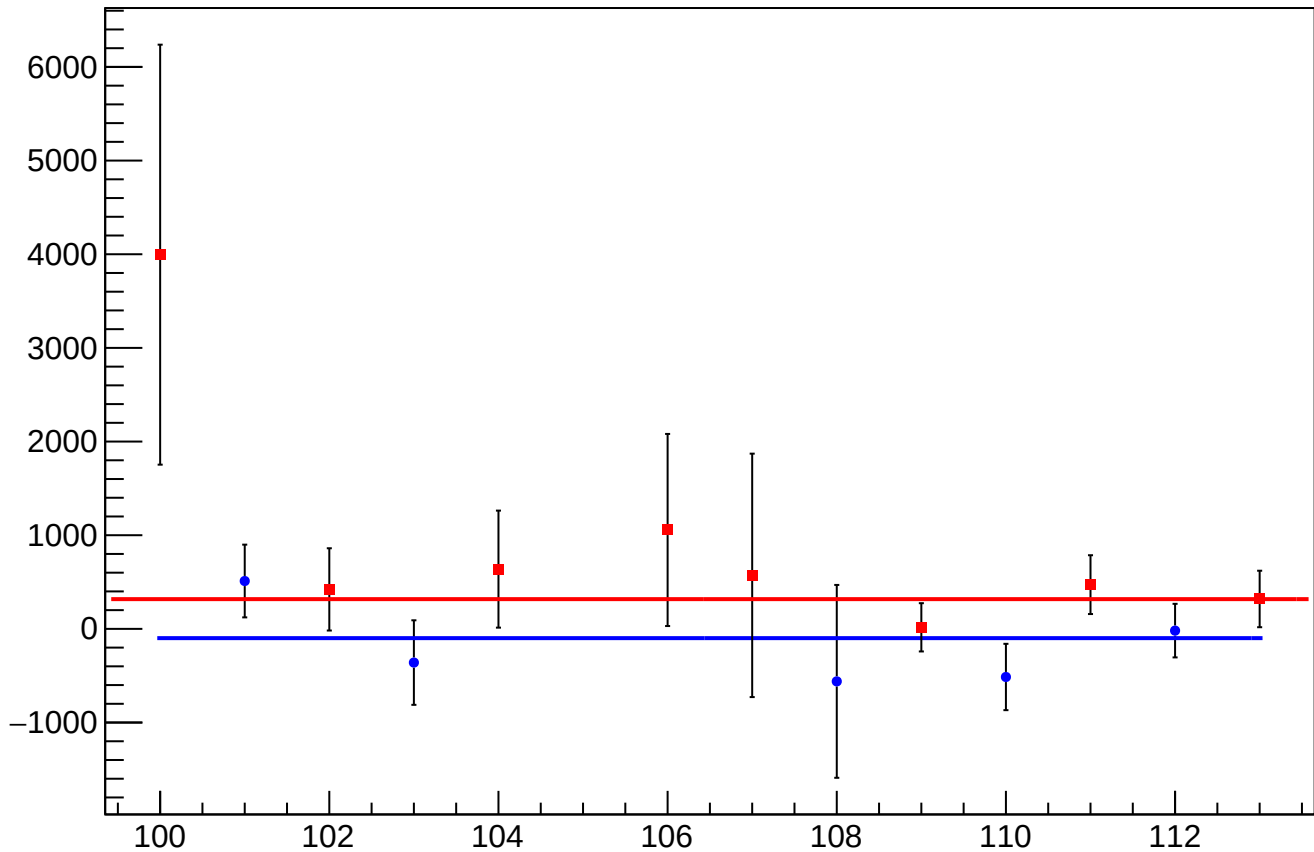
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 242.164 $\pm$ 0.076  $\chi^2$ /NDF: 1387620.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_mean vs Slug



Right In:  $-98.921 \pm 174.918$   $\chi^2/\text{NDF}$ : 4.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $317.540 \pm 147.956$   $\chi^2/\text{NDF}$ : 5.2/7

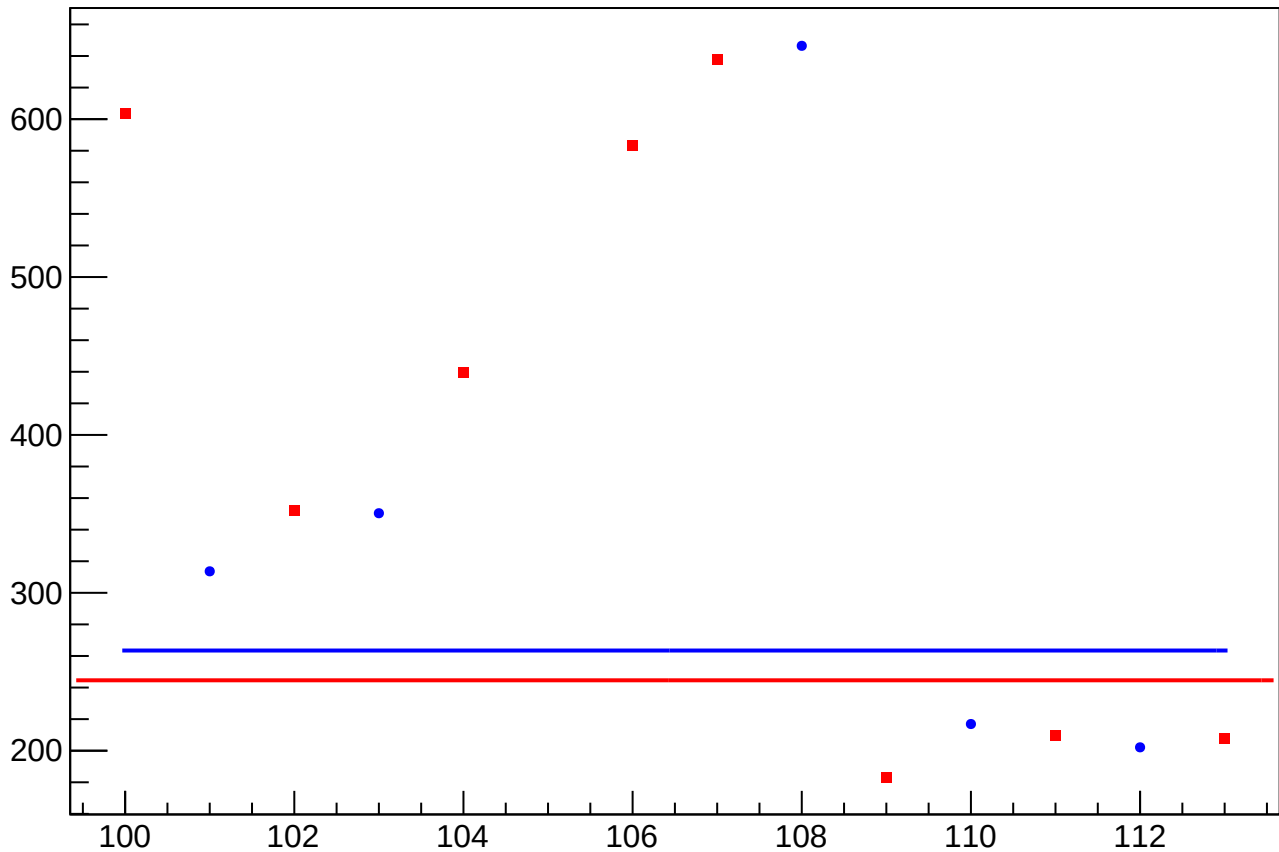
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $143.847 \pm 112.964$   $\chi^2/\text{NDF}$ : 12.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_rms vs Slug



Right In: 263.457 $\pm$ 0.124  $\chi^2$ /NDF: 510809.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 244.594 $\pm$ 0.105  $\chi^2$ /NDF: 935718.4/7

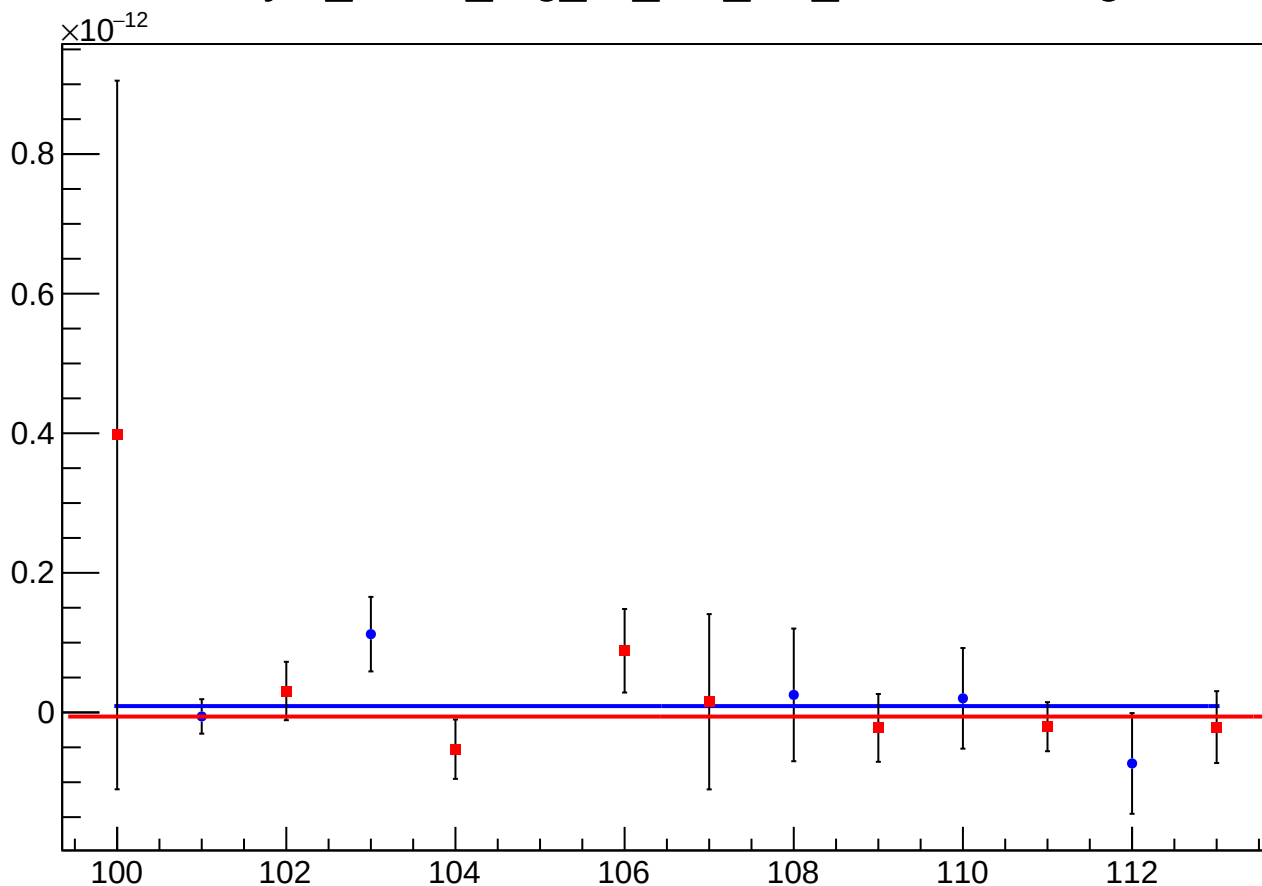
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 252.461 $\pm$ 0.080  $\chi^2$ /NDF: 1460085.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.5/7

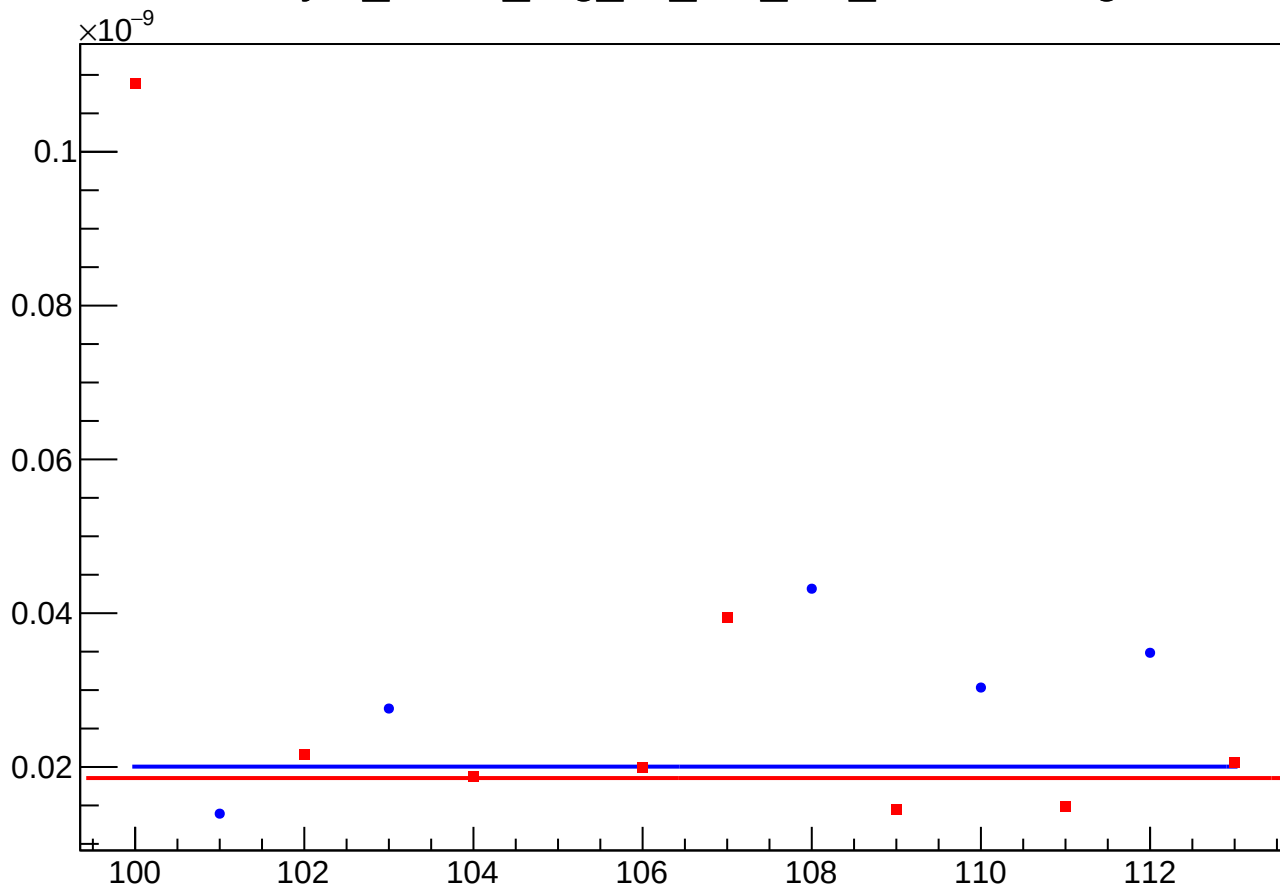
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 406174.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 169853.1/7

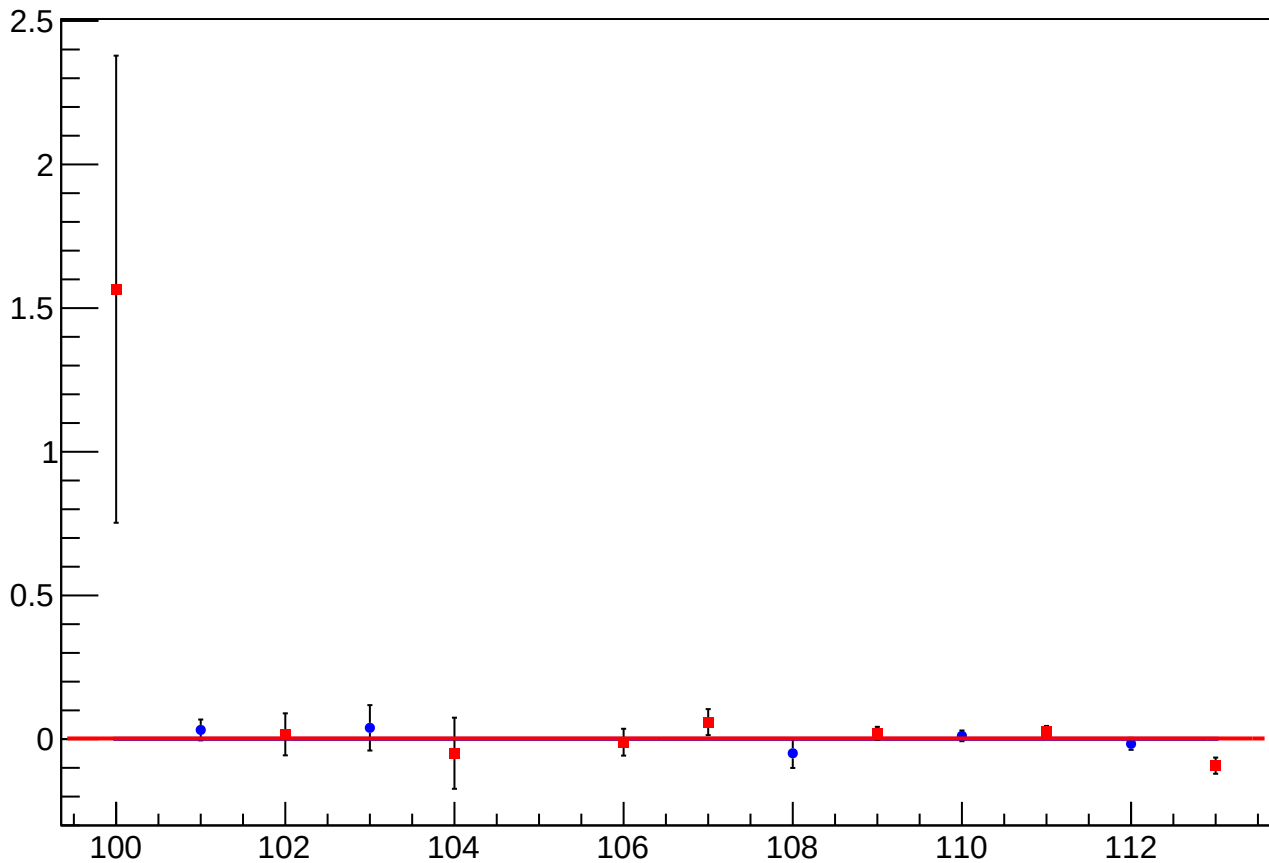
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 582110.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.001 $\pm$ 0.012  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.002 $\pm$ 0.012  $\chi^2$ /NDF: 19.0/7

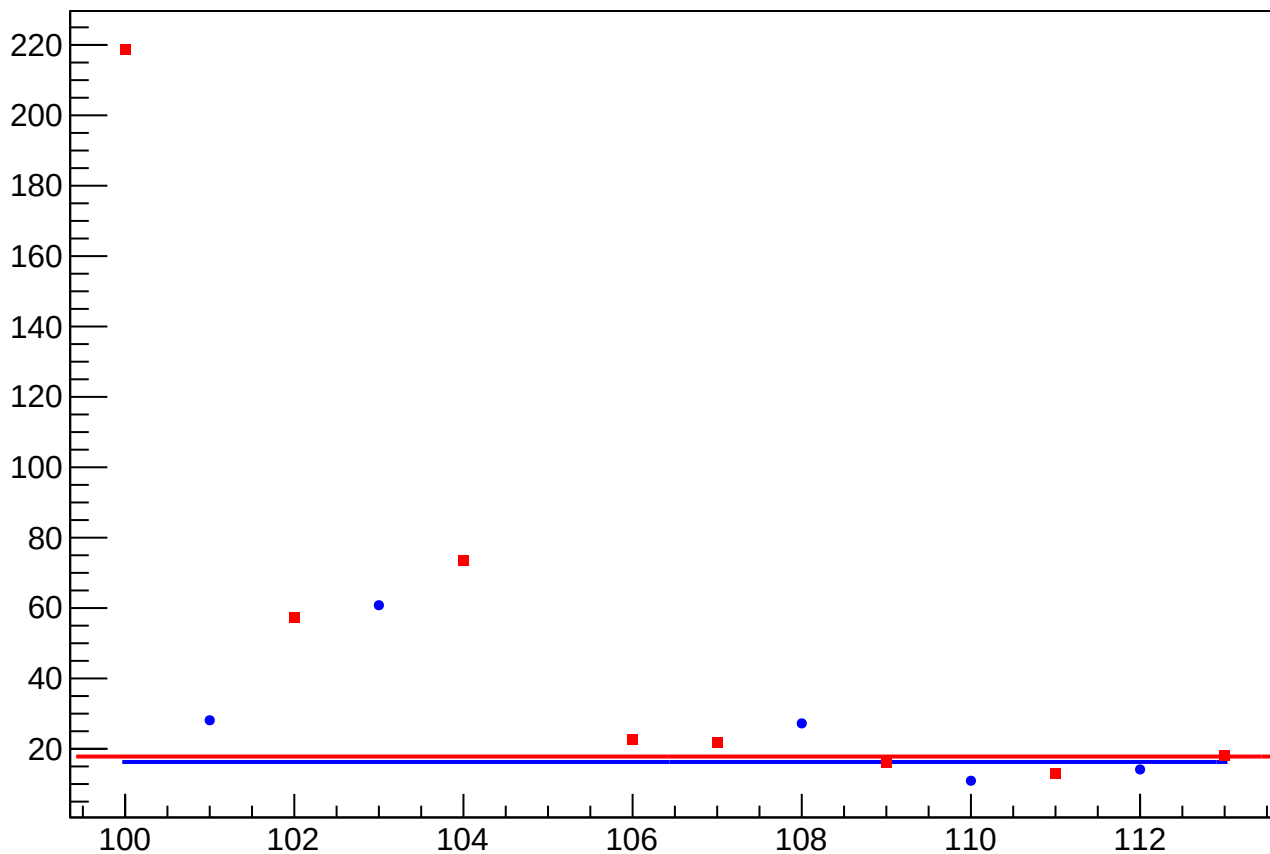
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.009  $\chi^2$ /NDF: 21.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 16.268+/-0.009  $\chi^2/\text{NDF}$ : 1126409.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.812+/-0.008  $\chi^2/\text{NDF}$ : 1282289.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

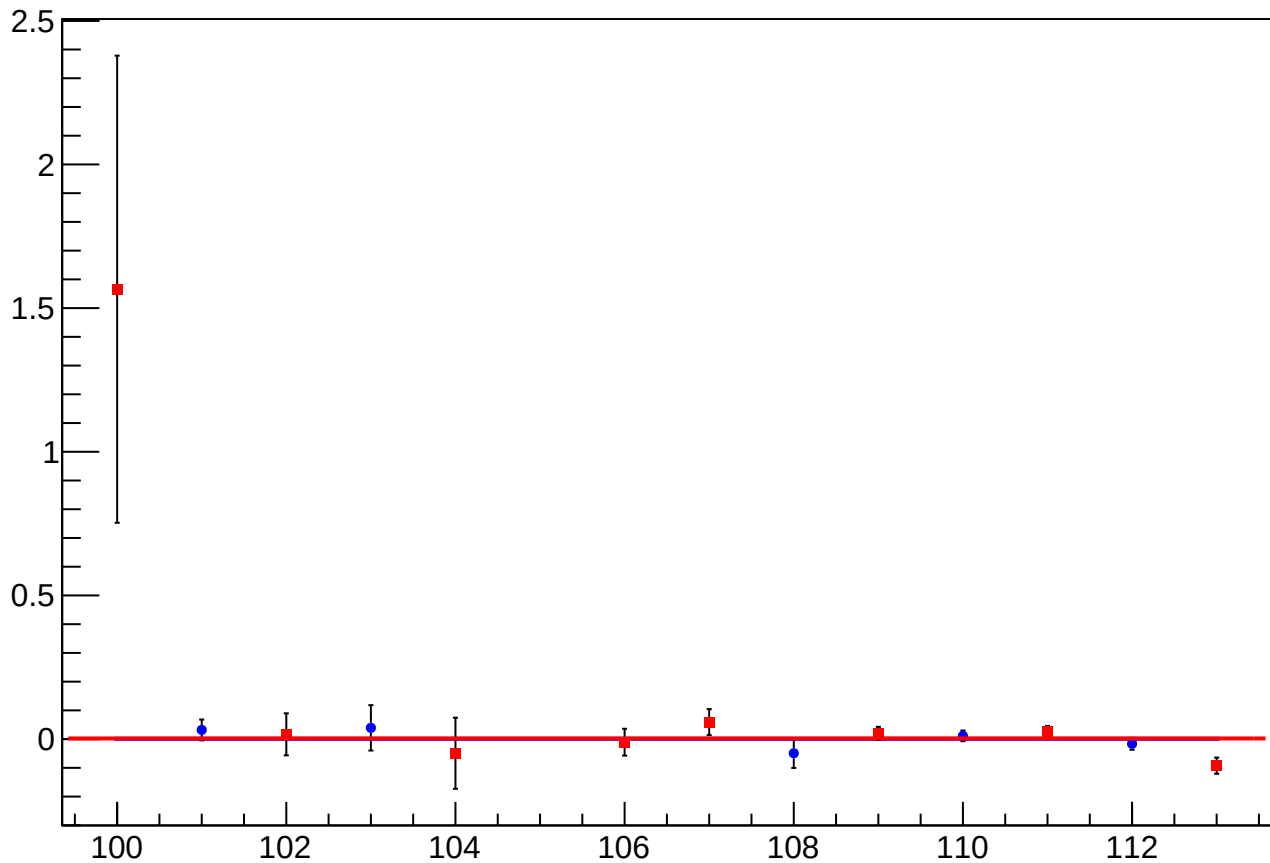
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.068+/-0.006  $\chi^2/\text{NDF}$ : 2424743.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam7\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.001 $\pm$ 0.012  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.002 $\pm$ 0.012  $\chi^2$ /NDF: 19.0/7

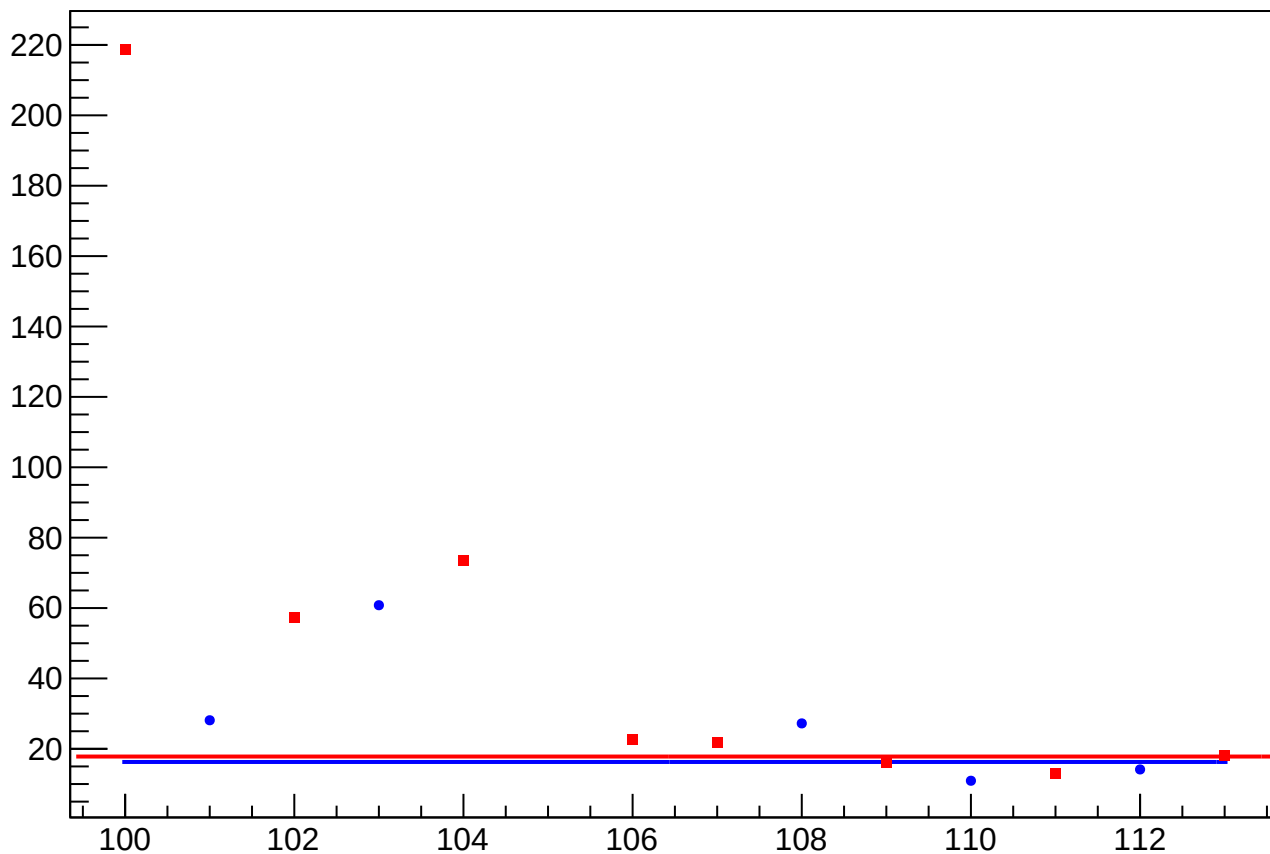
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.009  $\chi^2$ /NDF: 21.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 16.268+/-0.009  $\chi^2/\text{NDF}$ : 1126409.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.812+/-0.008  $\chi^2/\text{NDF}$ : 1282289.2/7

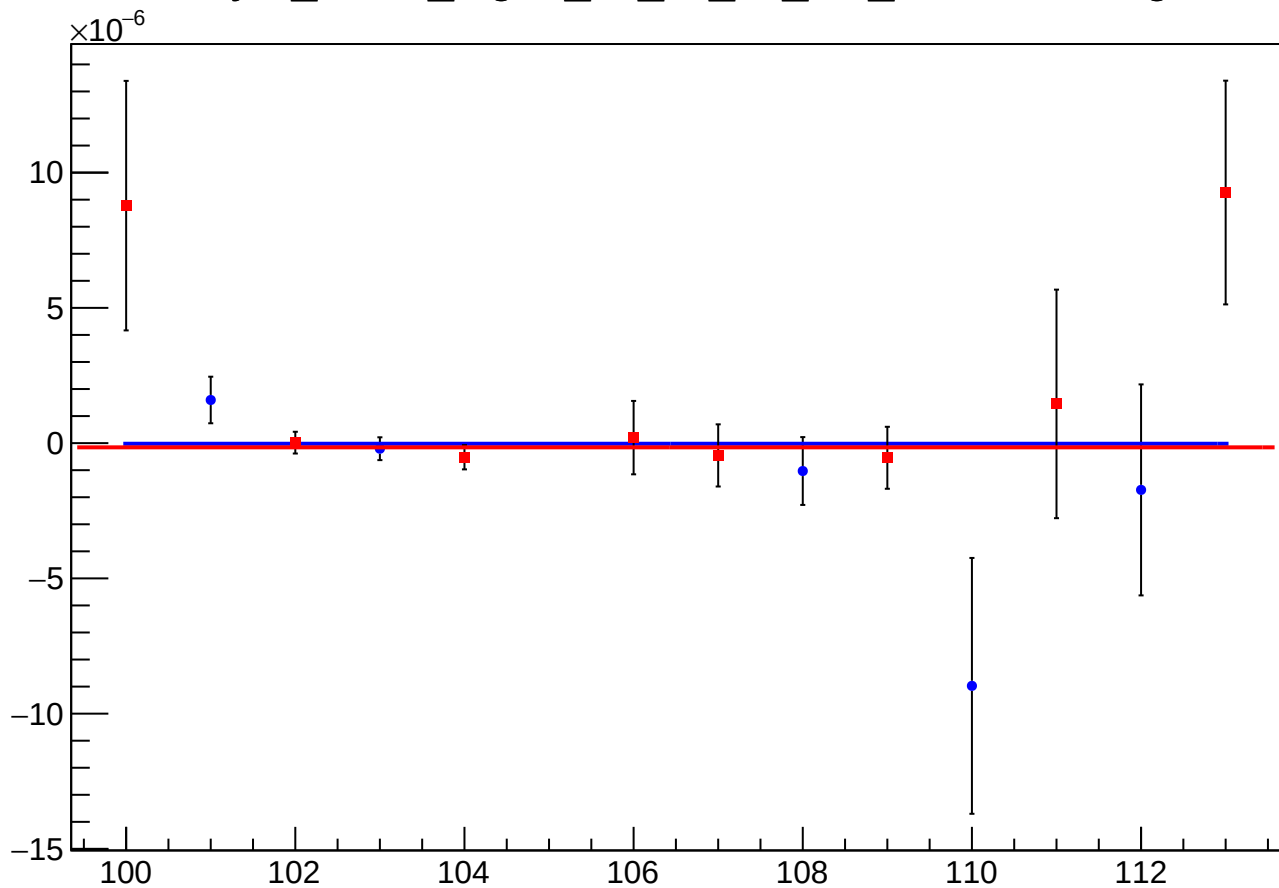
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.068+/-0.006  $\chi^2/\text{NDF}$ : 2424743.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.2/7

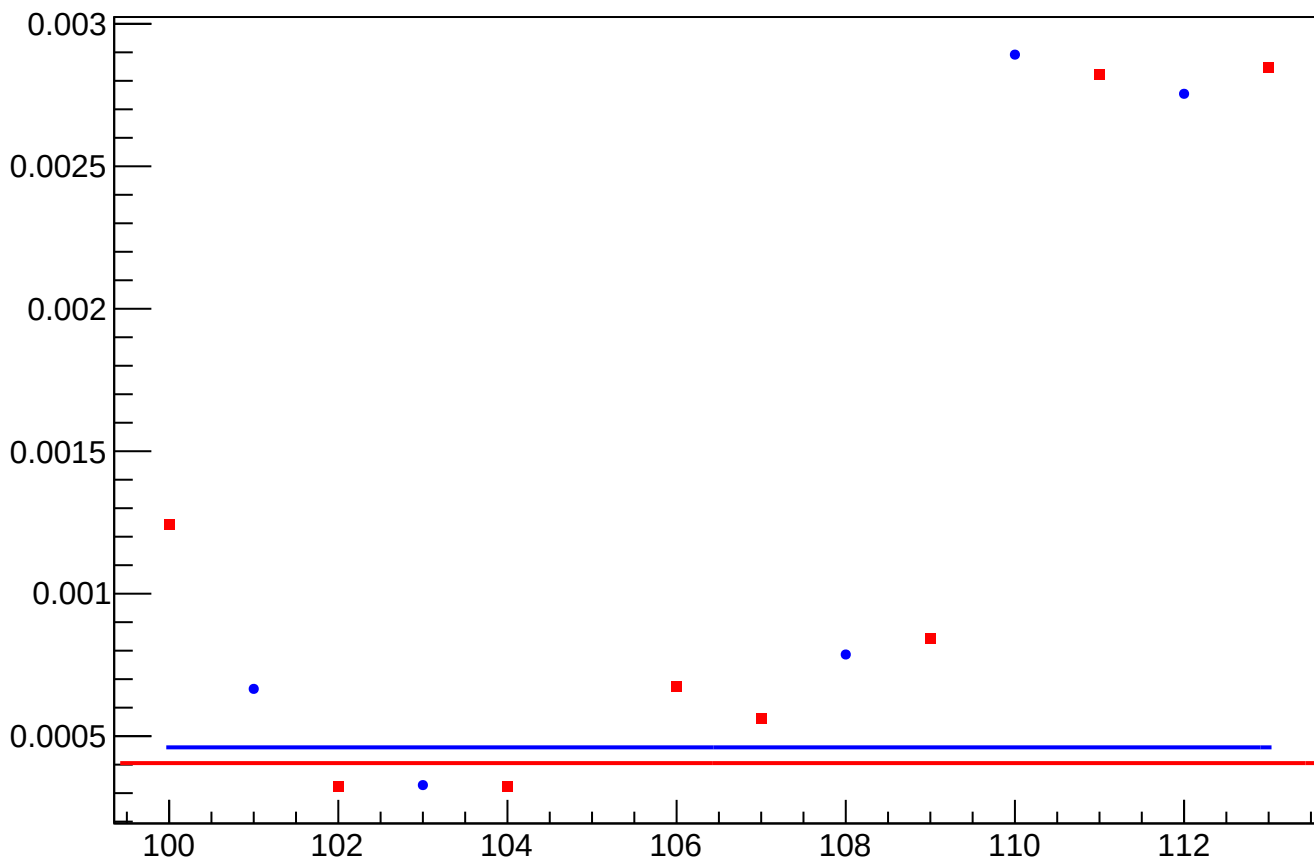
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1666425.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1977855.9/7

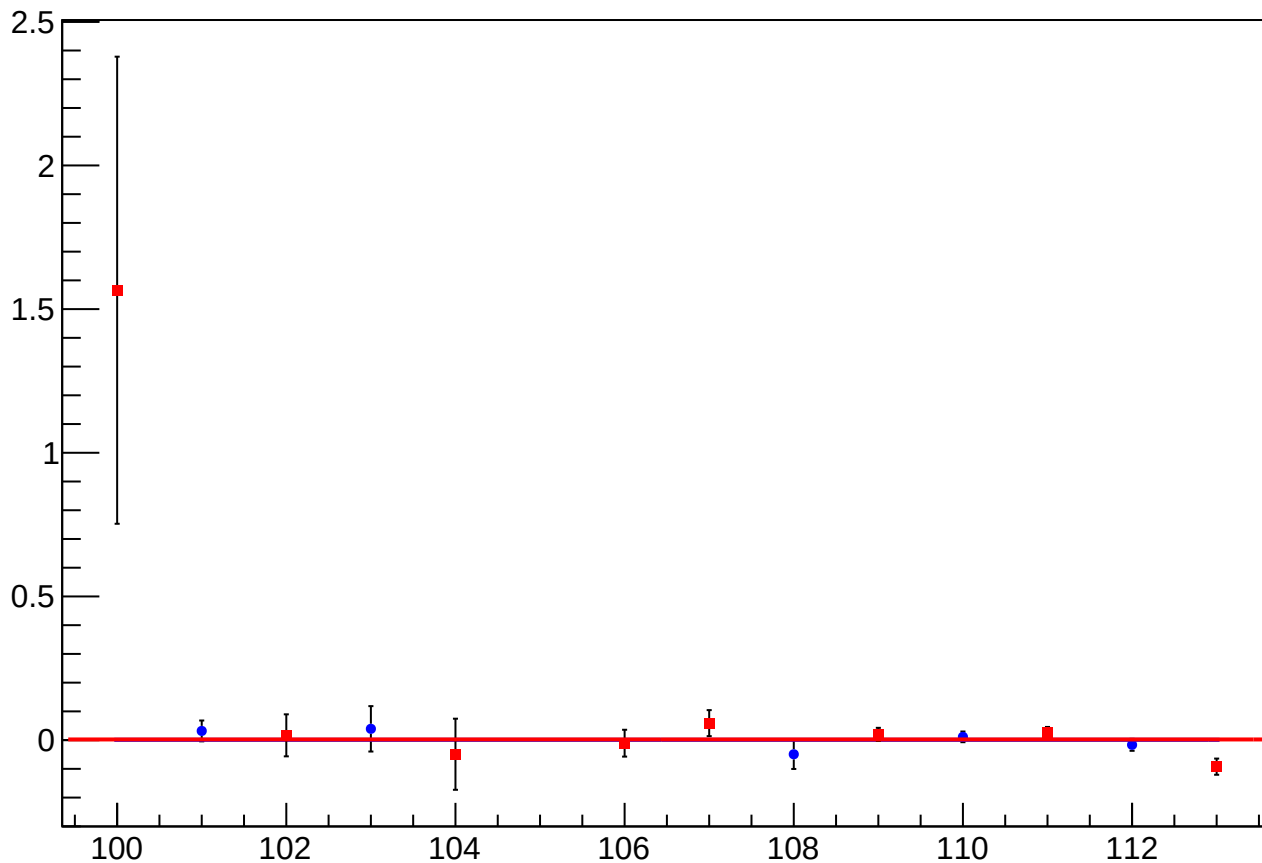
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3674174.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.001 $\pm$ 0.012  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.002 $\pm$ 0.012  $\chi^2$ /NDF: 19.0/7

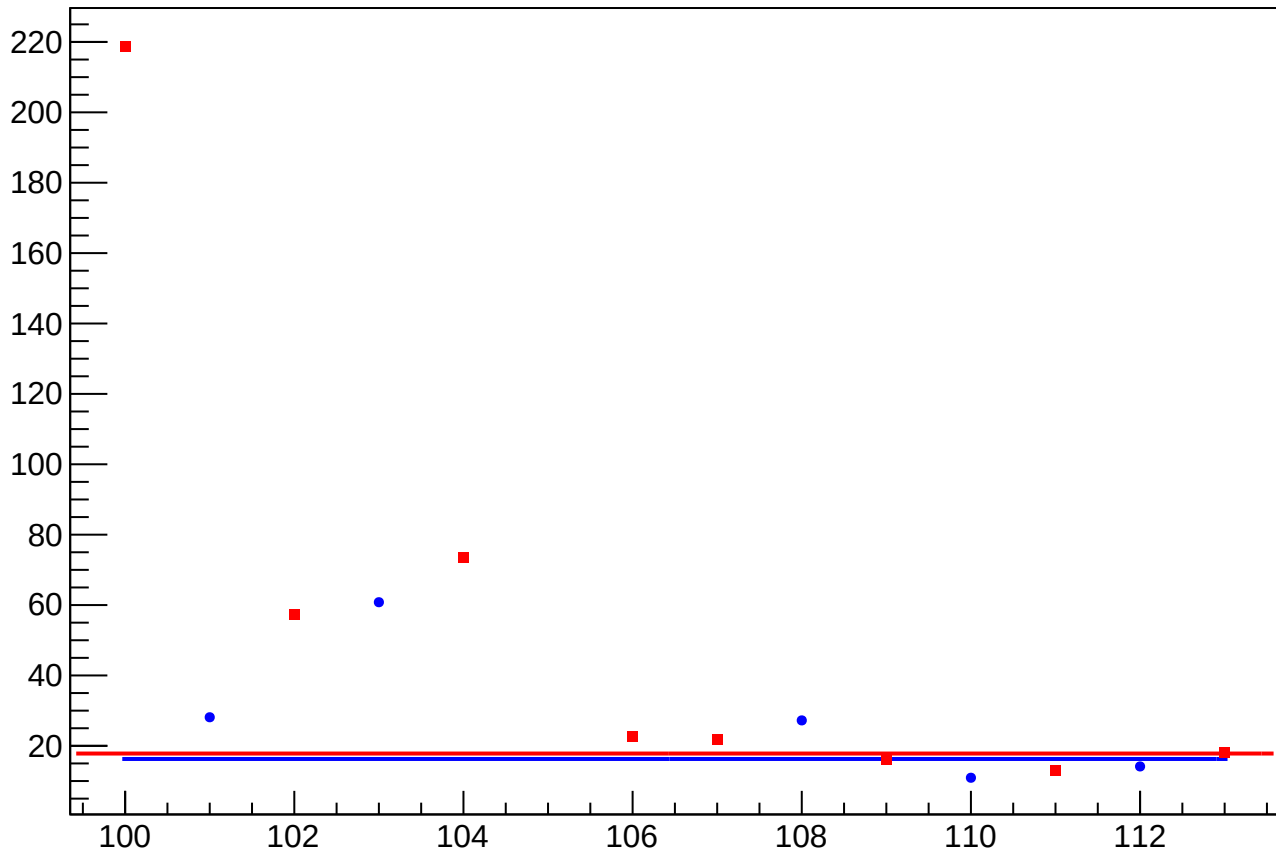
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.009  $\chi^2$ /NDF: 21.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 16.269+/-0.009  $\chi^2/\text{NDF}$ : 1126355.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.813+/-0.008  $\chi^2/\text{NDF}$ : 1282246.2/7

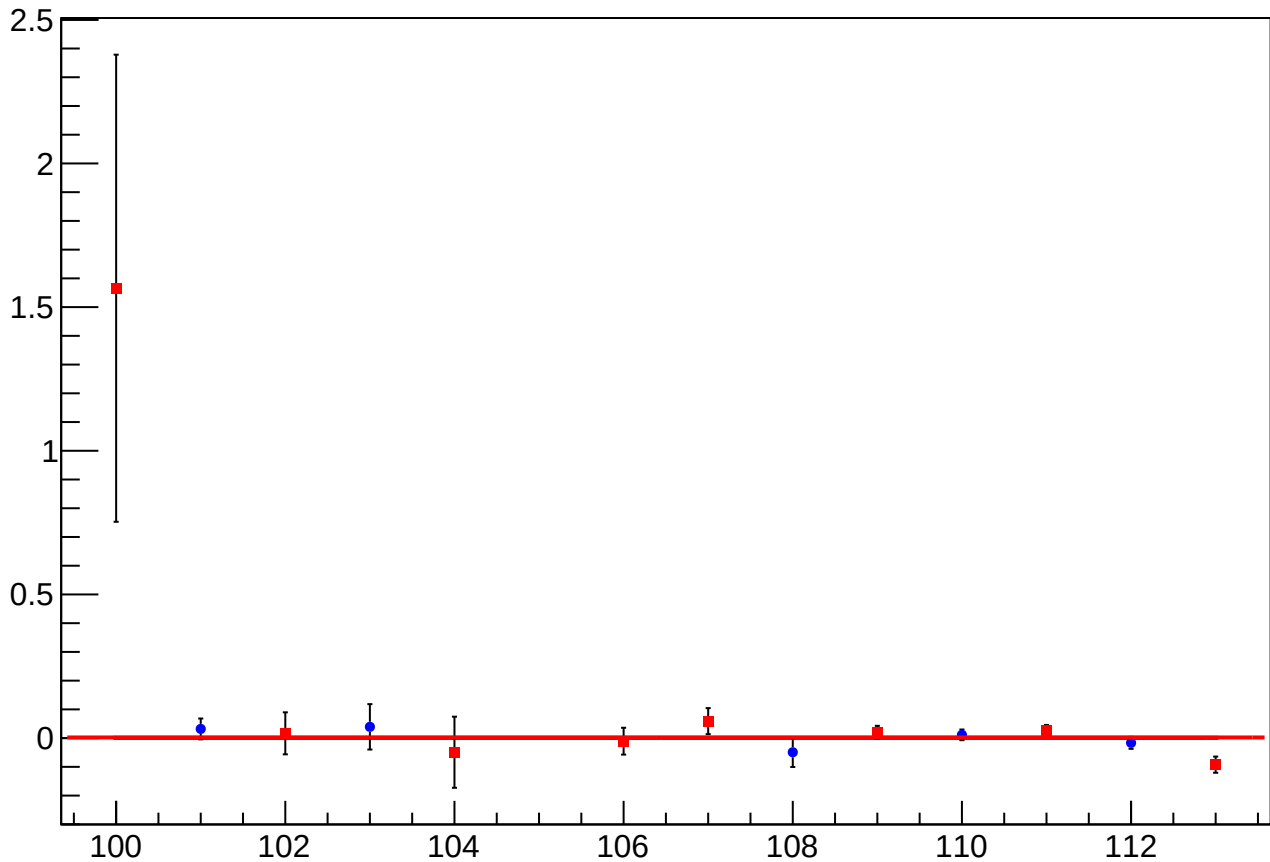
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.068+/-0.006  $\chi^2/\text{NDF}$ : 2424634.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam7\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.001+/-0.012  $\chi^2/\text{NDF}$ : 2.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.012  $\chi^2/\text{NDF}$ : 19.0/7

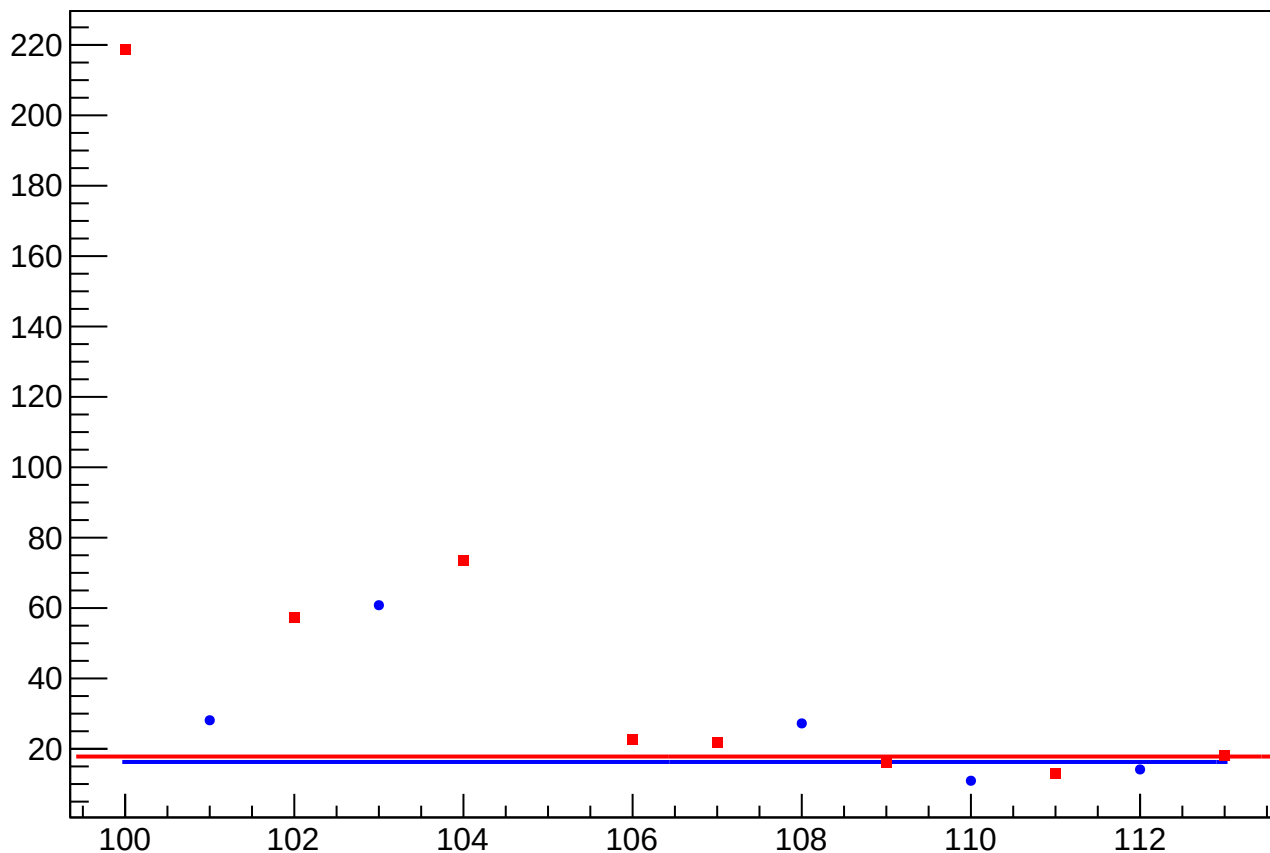
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.009  $\chi^2/\text{NDF}$ : 21.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam7\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 16.269+/-0.009  $\chi^2/\text{NDF}$ : 1126355.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.813+/-0.008  $\chi^2/\text{NDF}$ : 1282246.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

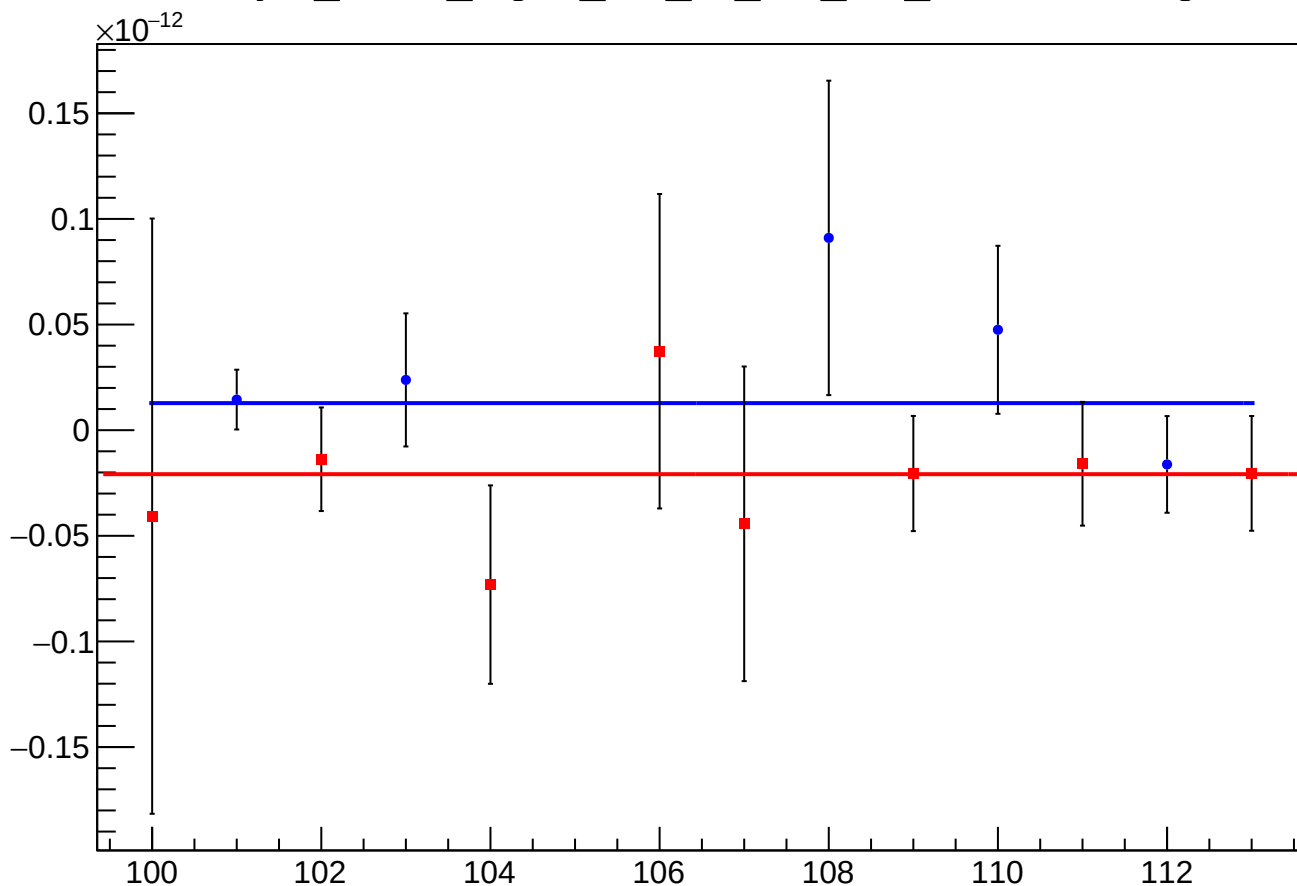
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.068+/-0.006  $\chi^2/\text{NDF}$ : 2424634.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam7\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.1/7

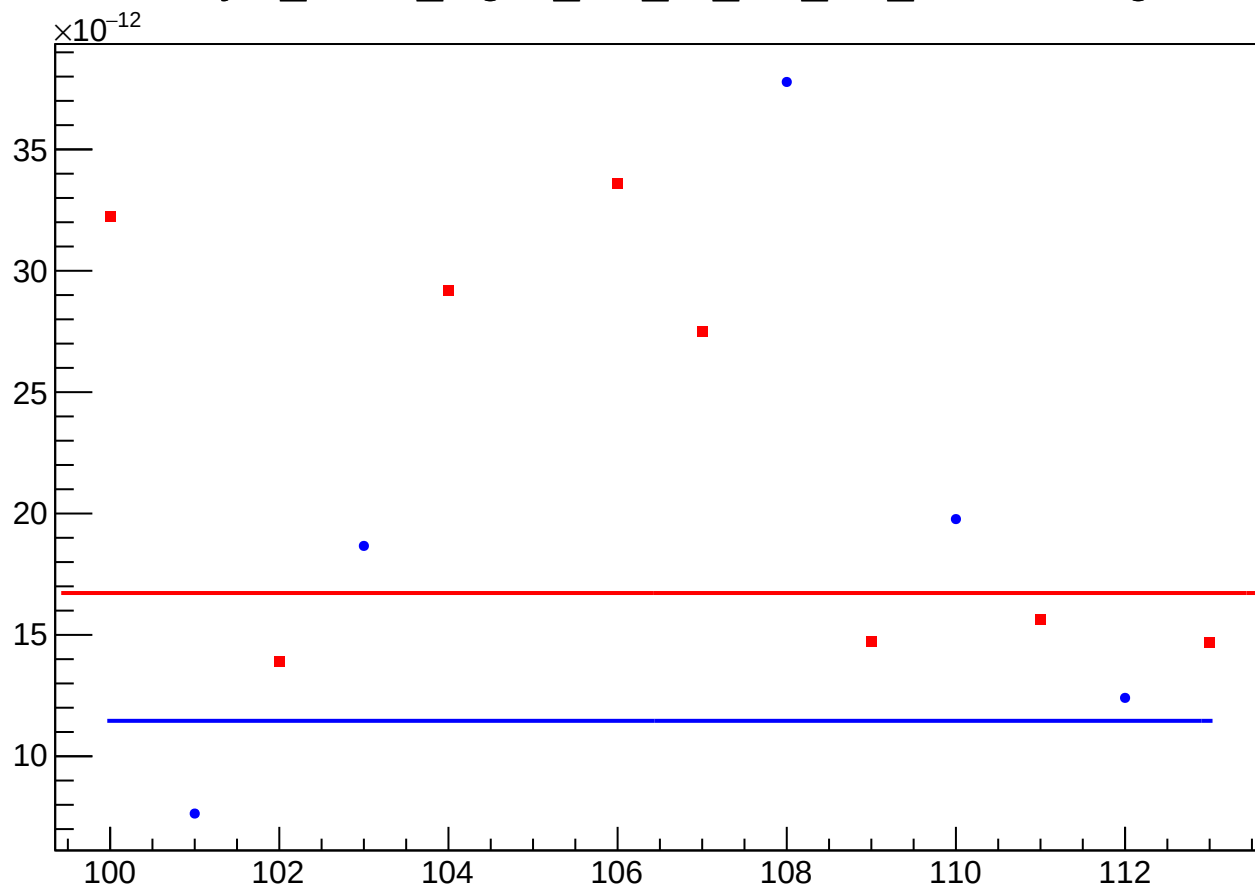
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 591342.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 361381.0/7

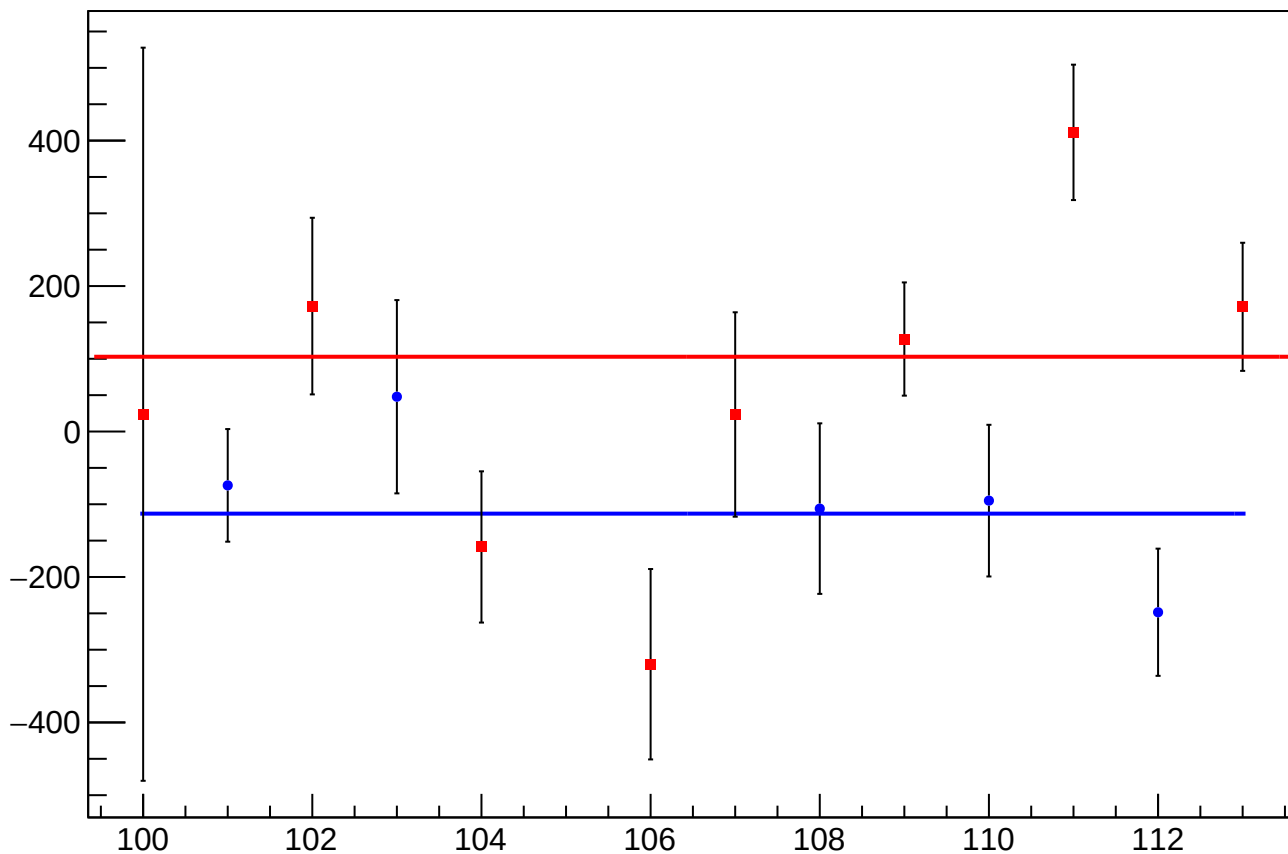
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1157358.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_mean vs Slug



Right In: -112.897 $\pm$ 43.897  $\chi^2$ /NDF: 4.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 102.817 $\pm$ 38.273  $\chi^2$ /NDF: 29.1/7

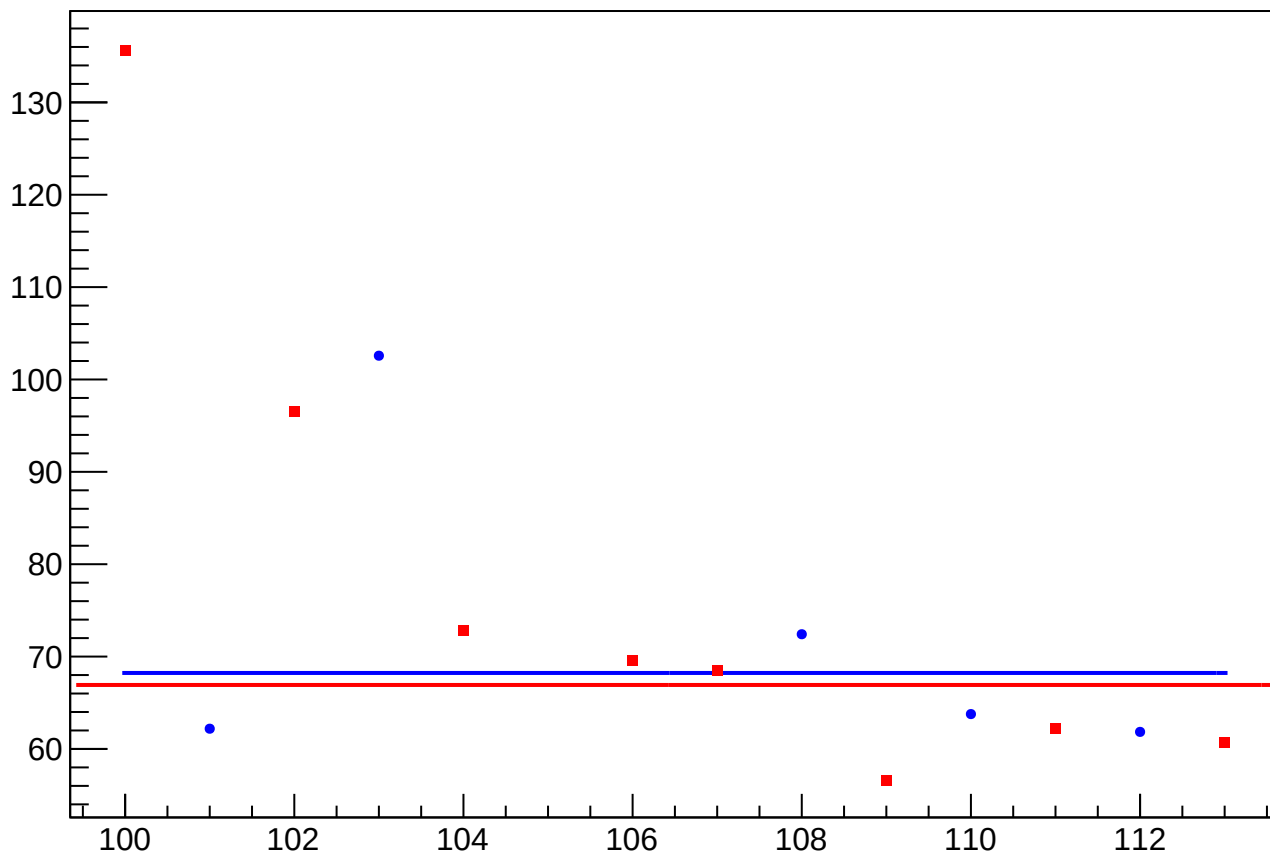
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.656 $\pm$ 28.848  $\chi^2$ /NDF: 47.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam8\_rms vs Slug



Right In: 68.227+/-0.031  $\chi^2/\text{NDF}$ : 162642.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 66.927+/-0.027  $\chi^2/\text{NDF}$ : 213974.4/7

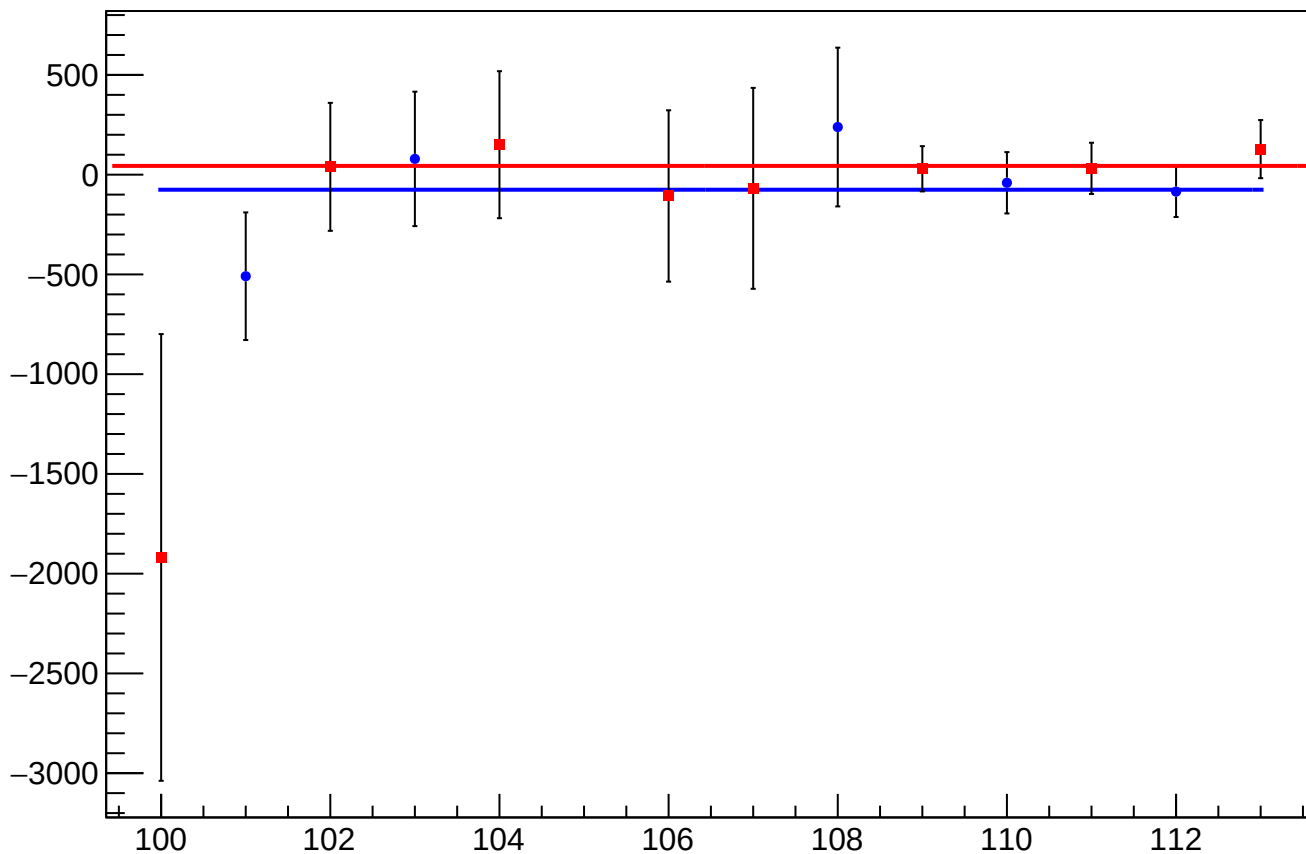
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.488+/-0.020  $\chi^2/\text{NDF}$ : 377613.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_reg\_correction\_mean vs Slug



Right In:  $-75.476 \pm 88.066$   $\chi^2/\text{NDF}$ : 2.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $43.965 \pm 68.542$   $\chi^2/\text{NDF}$ : 3.7/7

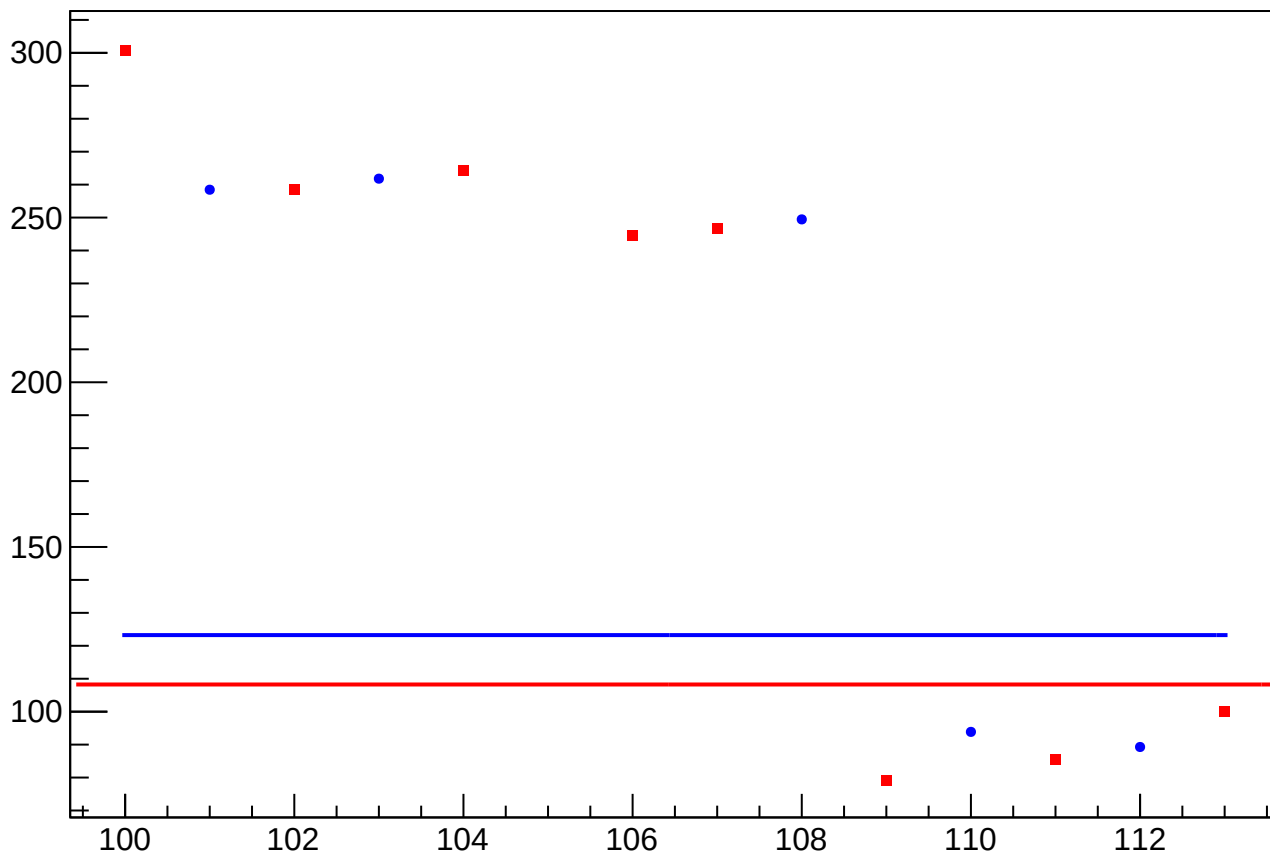
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.093 \pm 54.090$   $\chi^2/\text{NDF}$ : 7.6/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_reg\_correction\_rms vs Slug



Right In: 123.248+/-0.062  $\chi^2/\text{NDF}$ : 1112457.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 108.251+/-0.048  $\chi^2/\text{NDF}$ : 1411010.1/7

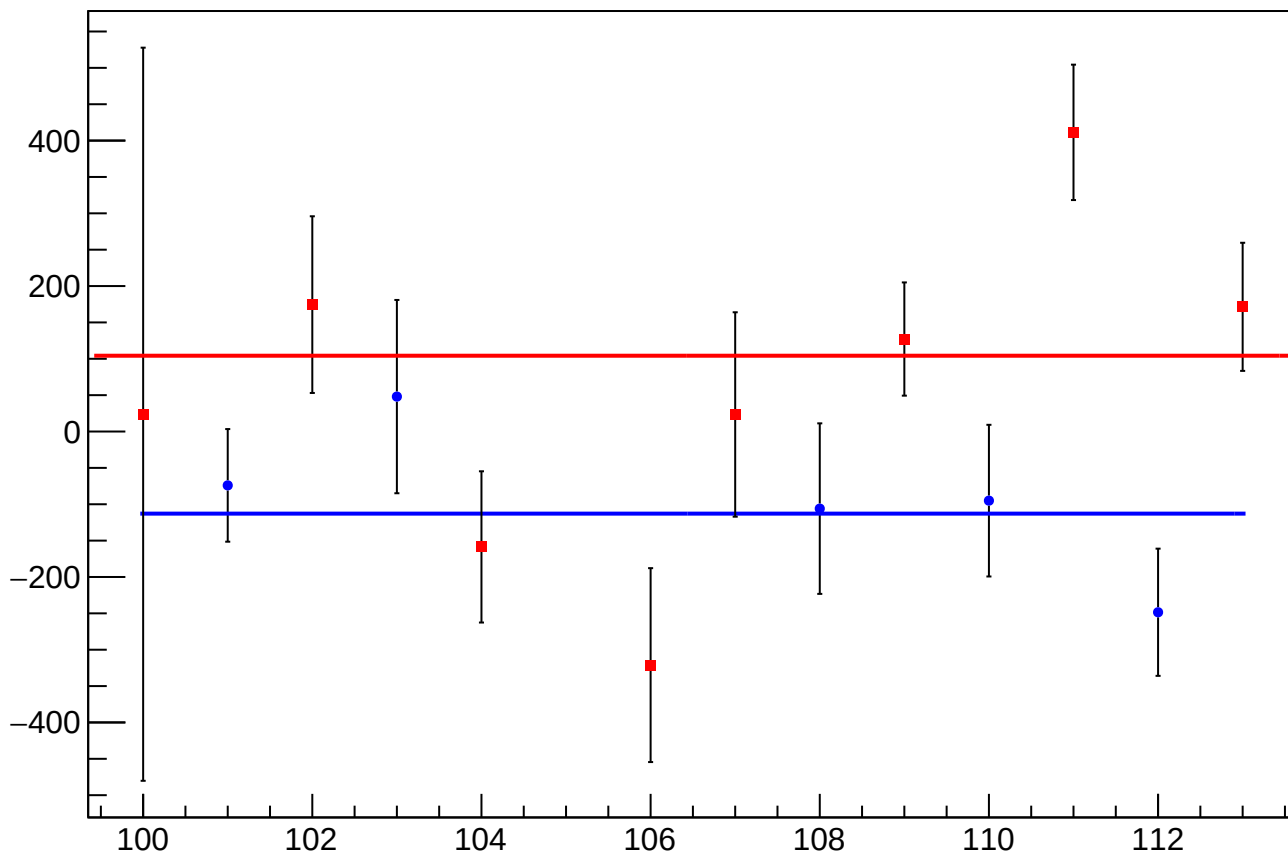
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 113.909+/-0.038  $\chi^2/\text{NDF}$ : 2559583.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam8\_mean vs Slug



Right In: -112.890 $\pm$ 43.897  $\chi^2$ /NDF: 4.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 104.219 $\pm$ 38.334  $\chi^2$ /NDF: 28.8/7

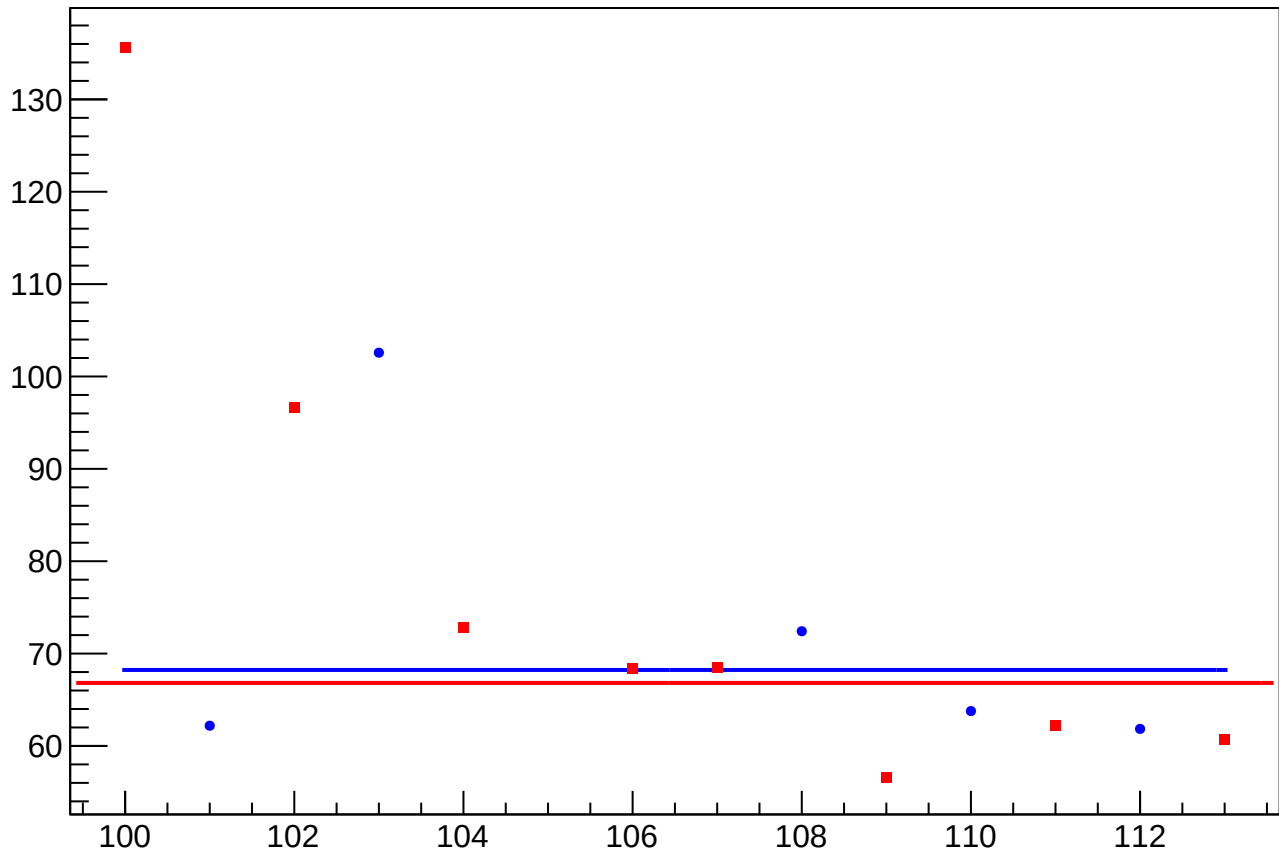
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.287 $\pm$ 28.874  $\chi^2$ /NDF: 46.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam8\_rms vs Slug



Right In: 68.227 $\pm$ 0.031  $\chi^2$ /NDF: 162644.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 66.823 $\pm$ 0.027  $\chi^2$ /NDF: 213566.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

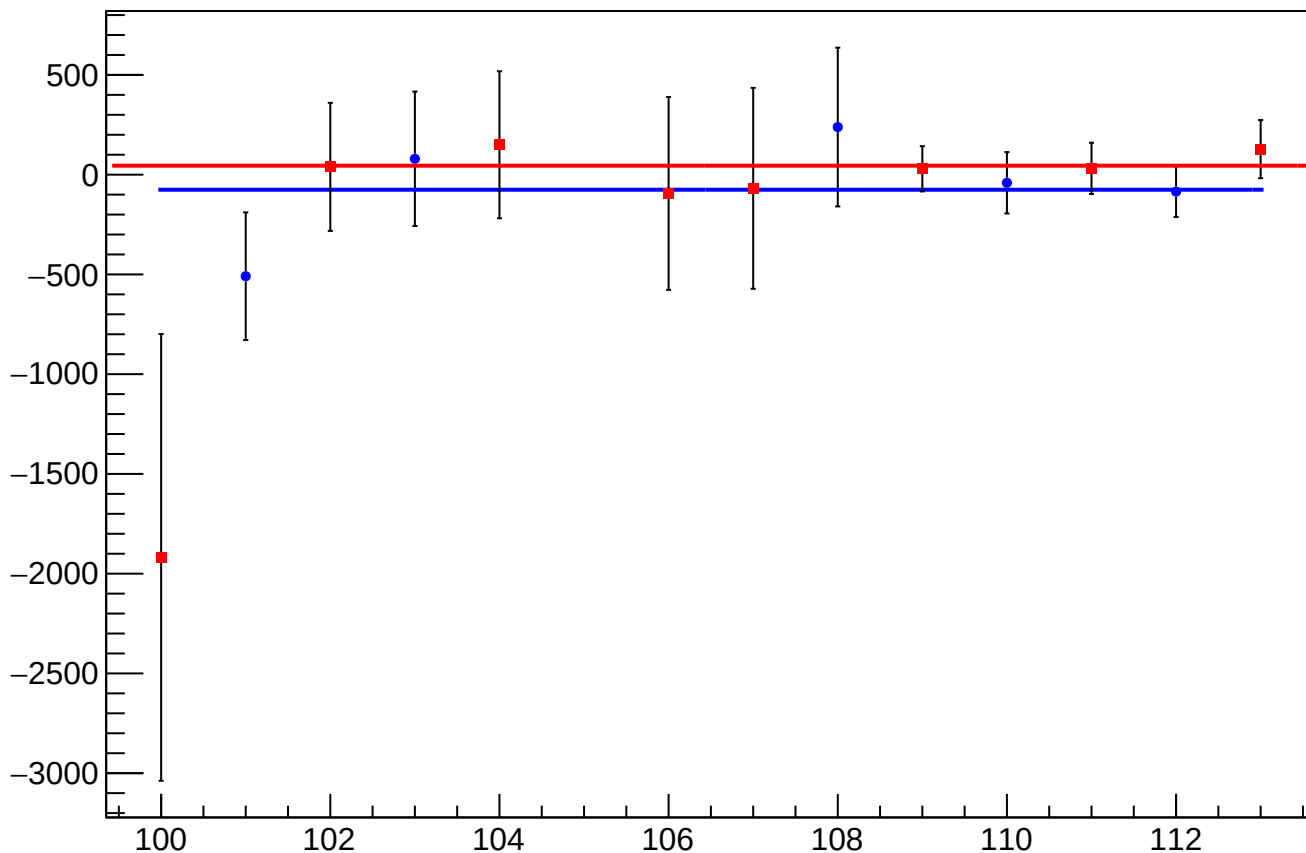
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 67.430 $\pm$ 0.020  $\chi^2$ /NDF: 377370.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam8\_cor\_correction\_mean vs Slug



Right In:  $-75.448 \pm 88.067$   $\chi^2/\text{NDF}$ : 2.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $45.011 \pm 68.730$   $\chi^2/\text{NDF}$ : 3.6/7

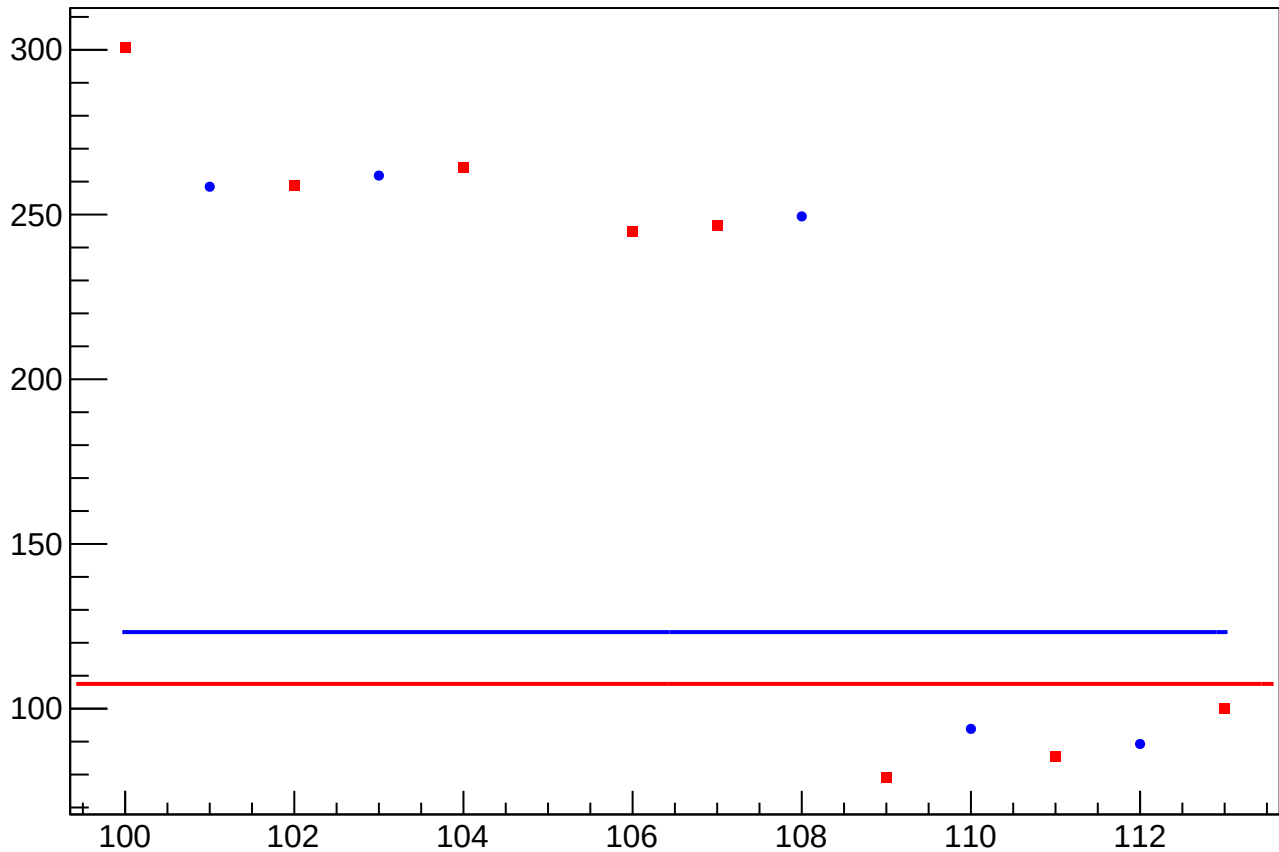
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.586 \pm 54.182$   $\chi^2/\text{NDF}$ : 7.5/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_cor\_correction\_rms vs Slug



Right In: 123.248+/-0.062  $\chi^2/\text{NDF}$ : 1112510.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 107.517+/-0.049  $\chi^2/\text{NDF}$ : 1369558.4/7

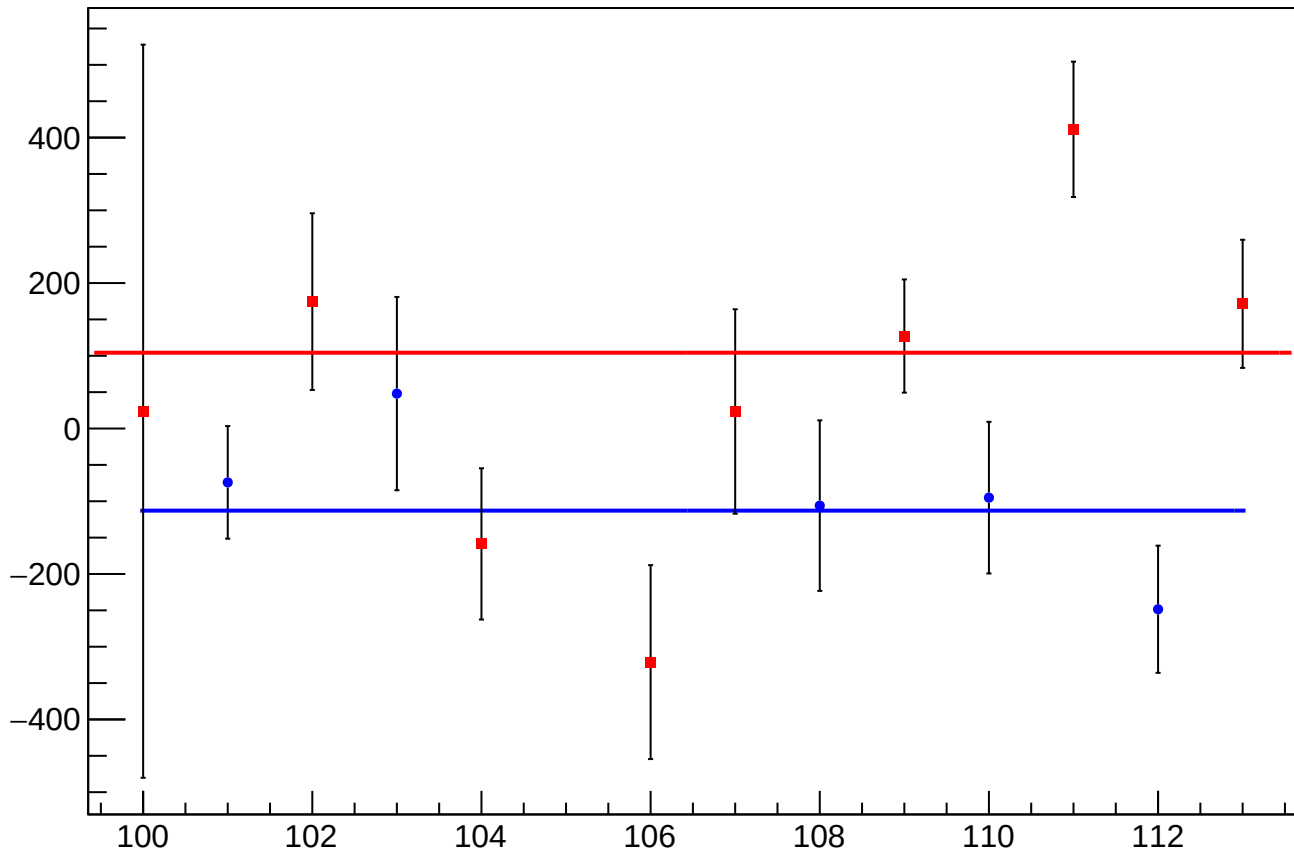
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 113.472+/-0.038  $\chi^2/\text{NDF}$ : 2521724.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam8\_mean vs Slug



Right In: -112.890+/-43.897  $\chi^2/\text{NDF}$ : 4.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 104.219+/-38.334  $\chi^2/\text{NDF}$ : 28.8/7

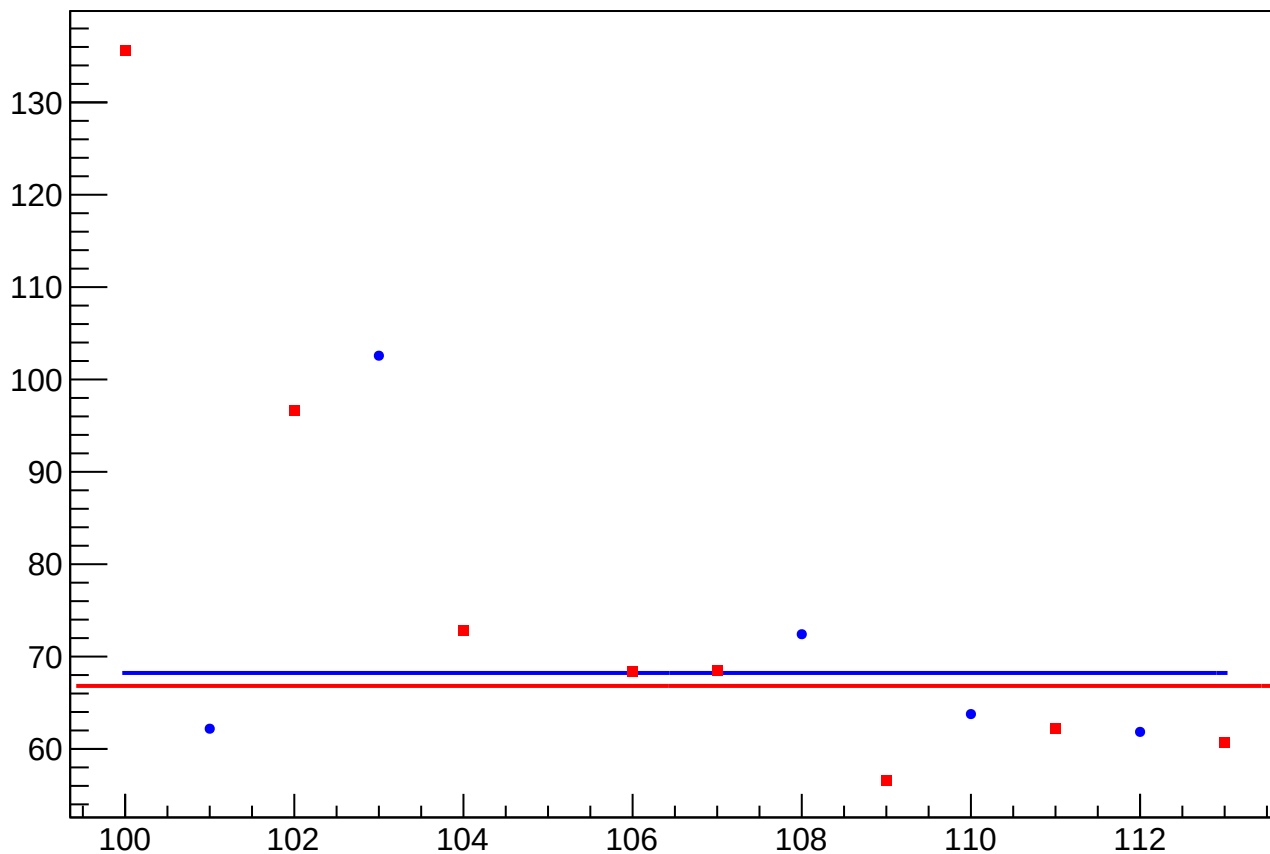
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.287+/-28.874  $\chi^2/\text{NDF}$ : 46.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam8\_rms vs Slug



Right In: 68.227 $\pm$ 0.031  $\chi^2$ /NDF: 162644.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 66.823 $\pm$ 0.027  $\chi^2$ /NDF: 213566.1/7

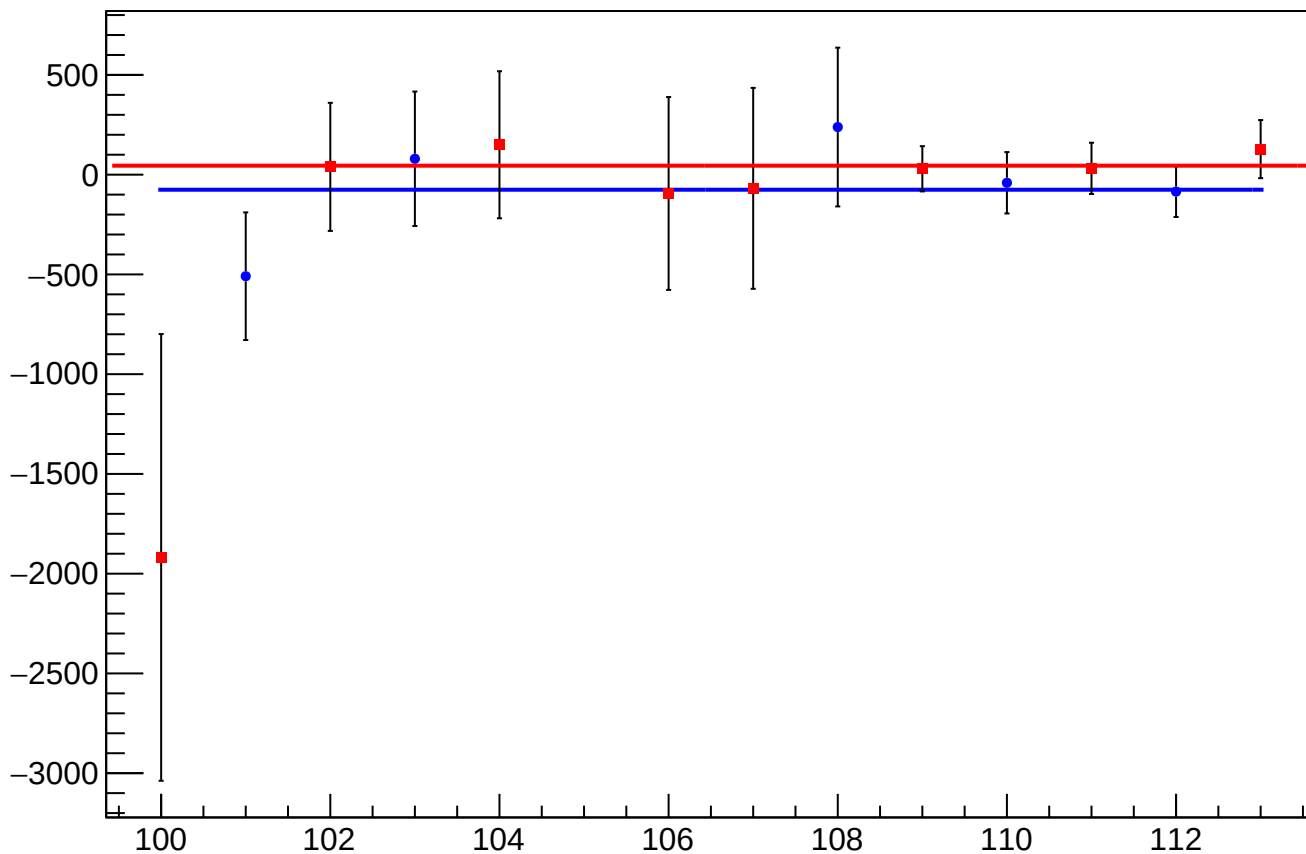
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 67.430 $\pm$ 0.020  $\chi^2$ /NDF: 377370.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_eigen\_cor\_correction\_mean vs Slug



Right In: -75.448 $\pm$ 88.067  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 45.011 $\pm$ 68.730  $\chi^2$ /NDF: 3.6/7

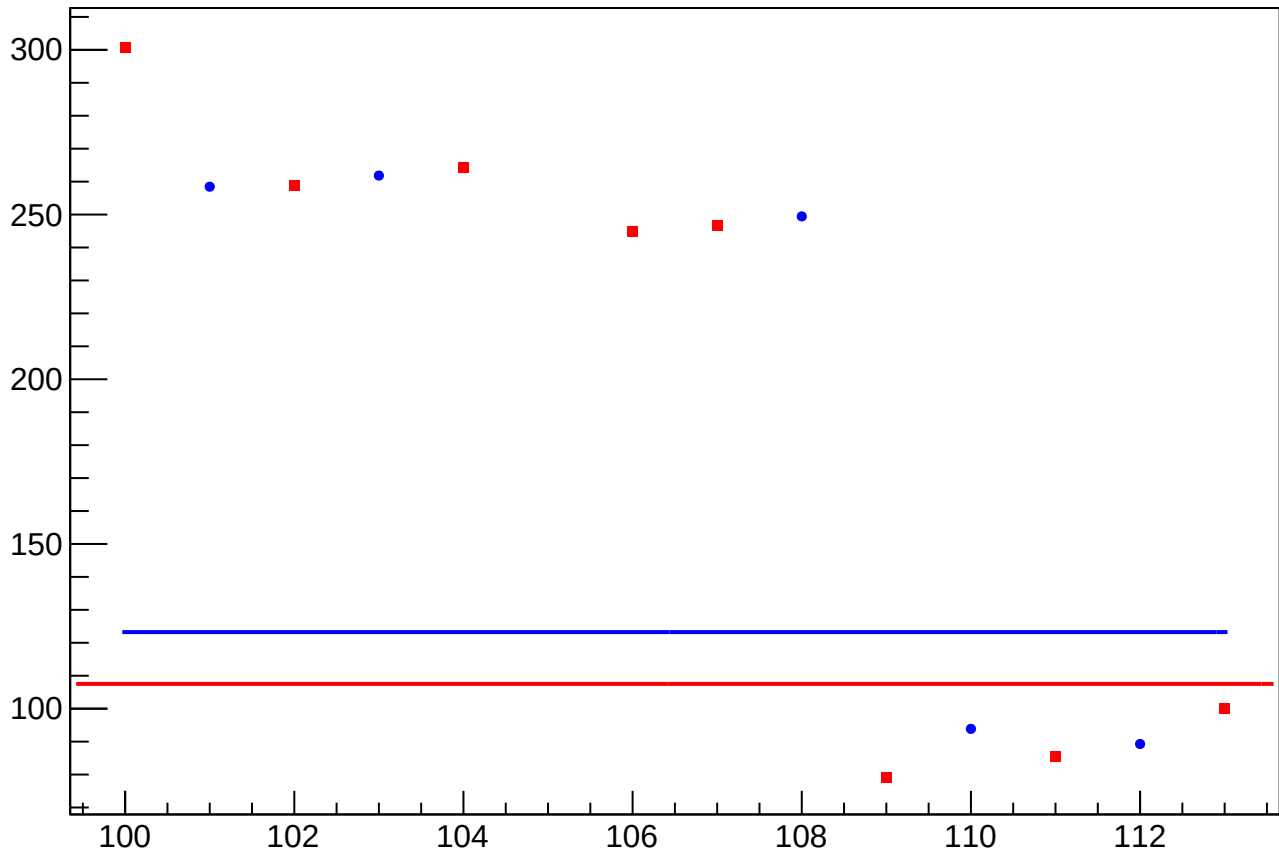
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.586 $\pm$ 54.182  $\chi^2$ /NDF: 7.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_eigen\_cor\_correction\_rms vs Slug



Right In: 123.248+/-0.062  $\chi^2/\text{NDF}$ : 1112510.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 107.517+/-0.049  $\chi^2/\text{NDF}$ : 1369558.4/7

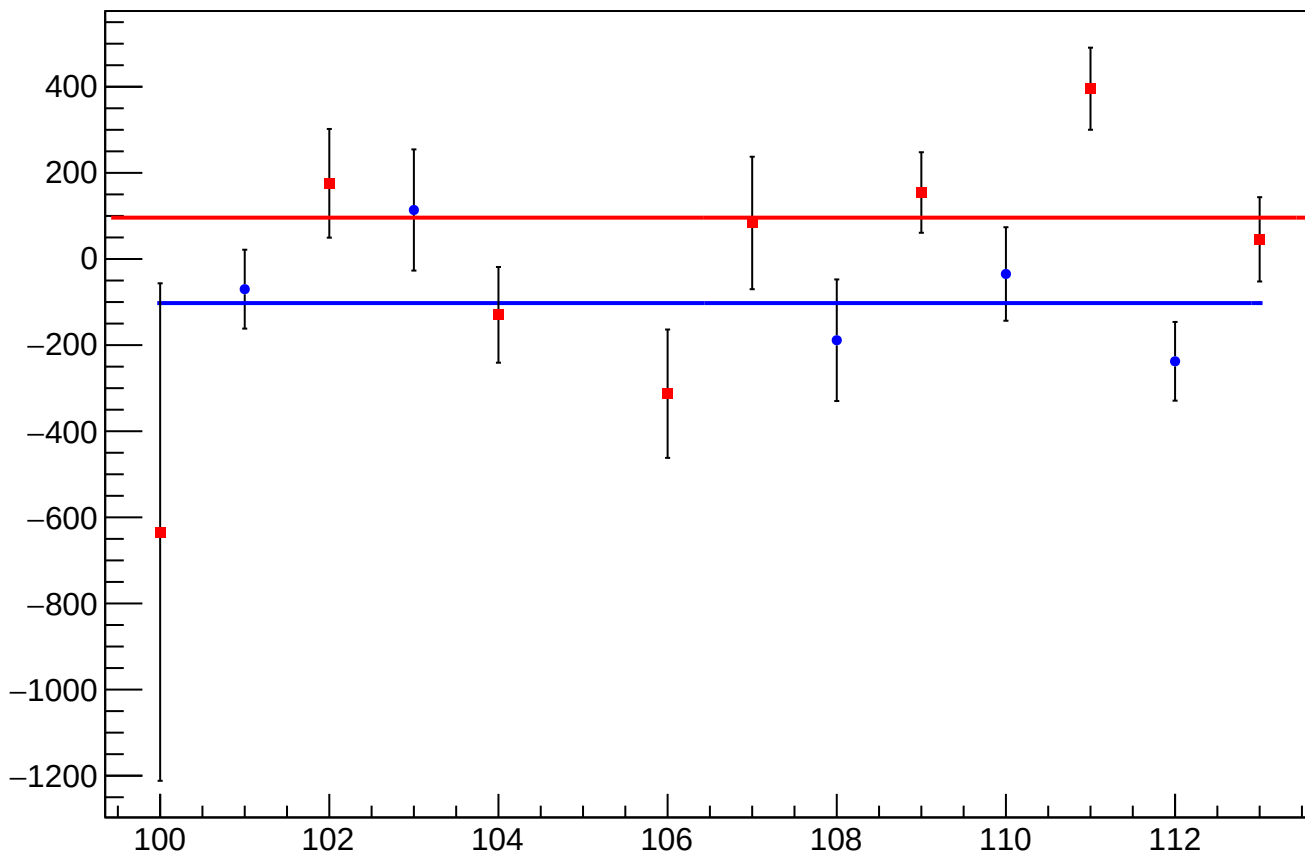
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 113.472+/-0.038  $\chi^2/\text{NDF}$ : 2521724.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam8\_mean vs Slug



Right In: -102.398+/-48.551  $\chi^2/\text{NDF}$ : 5.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 96.010+/-42.157  $\chi^2/\text{NDF}$ : 24.2/7

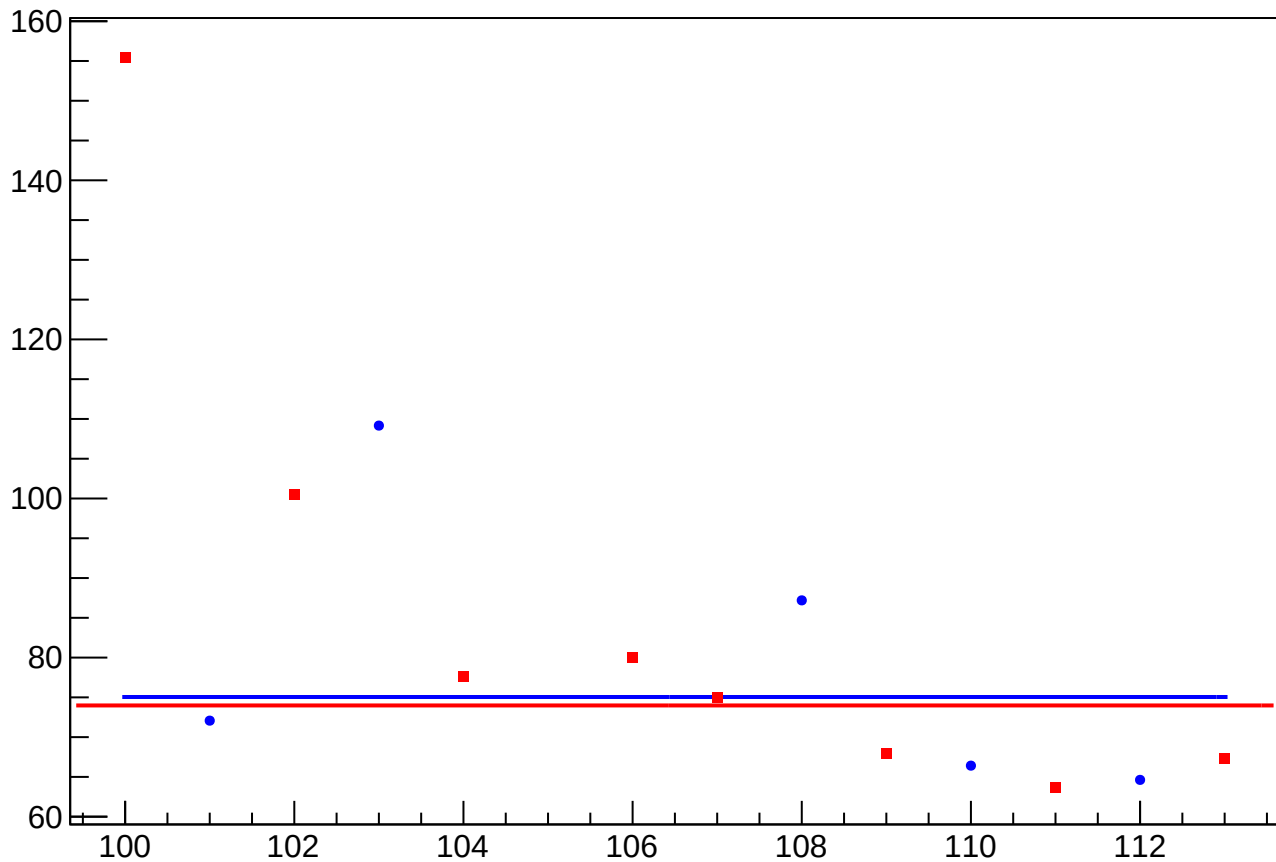
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.723+/-31.832  $\chi^2/\text{NDF}$ : 39.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam8\_rms vs Slug



Right In: 75.046 $\pm$ 0.034  $\chi^2$ /NDF: 173106.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 73.984 $\pm$ 0.030  $\chi^2$ /NDF: 174050.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

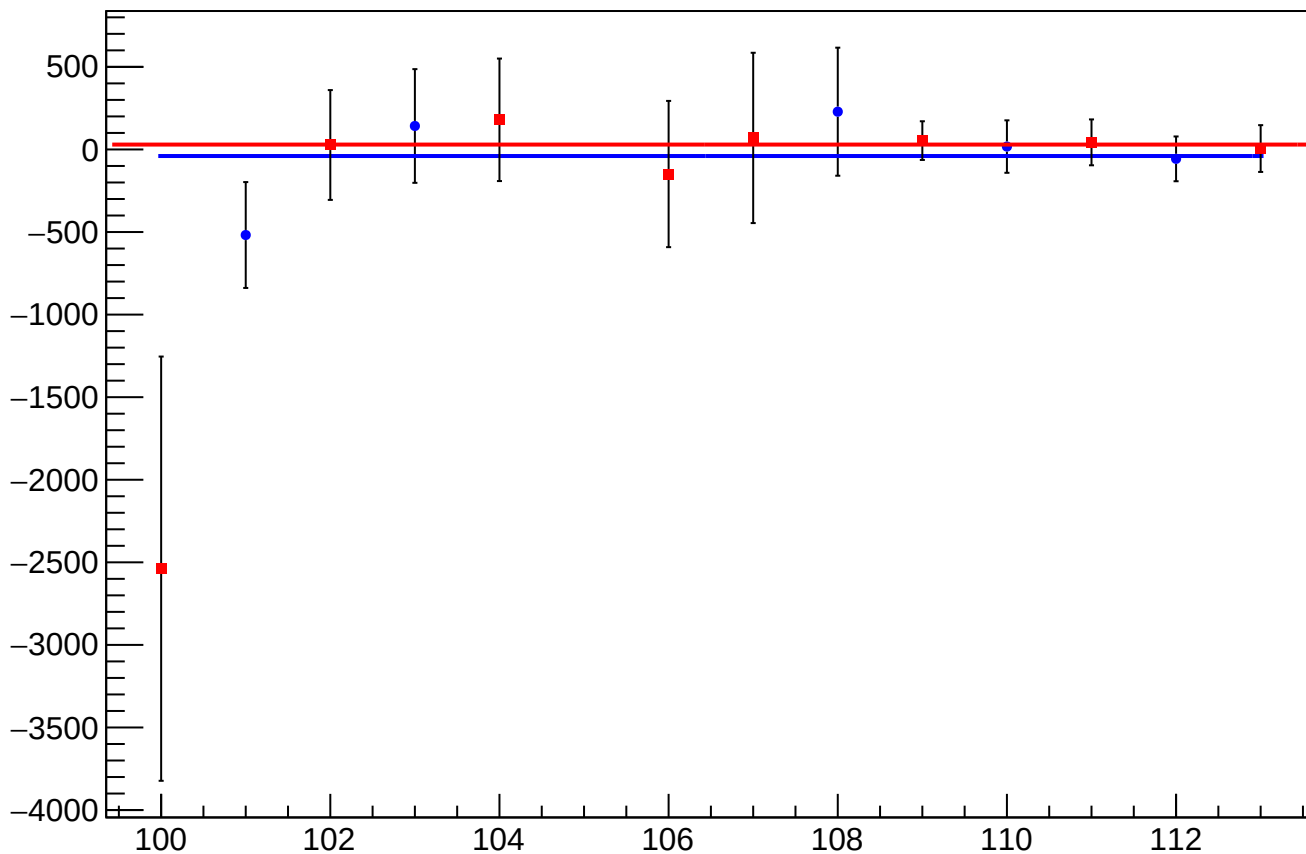
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 74.440 $\pm$ 0.023  $\chi^2$ /NDF: 347703.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam8\_dit\_correction\_mean vs Slug



Right In:  $-39.762 \pm 91.721$   $\chi^2/\text{NDF}$ : 3.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $29.539 \pm 70.652$   $\chi^2/\text{NDF}$ : 4.4/7

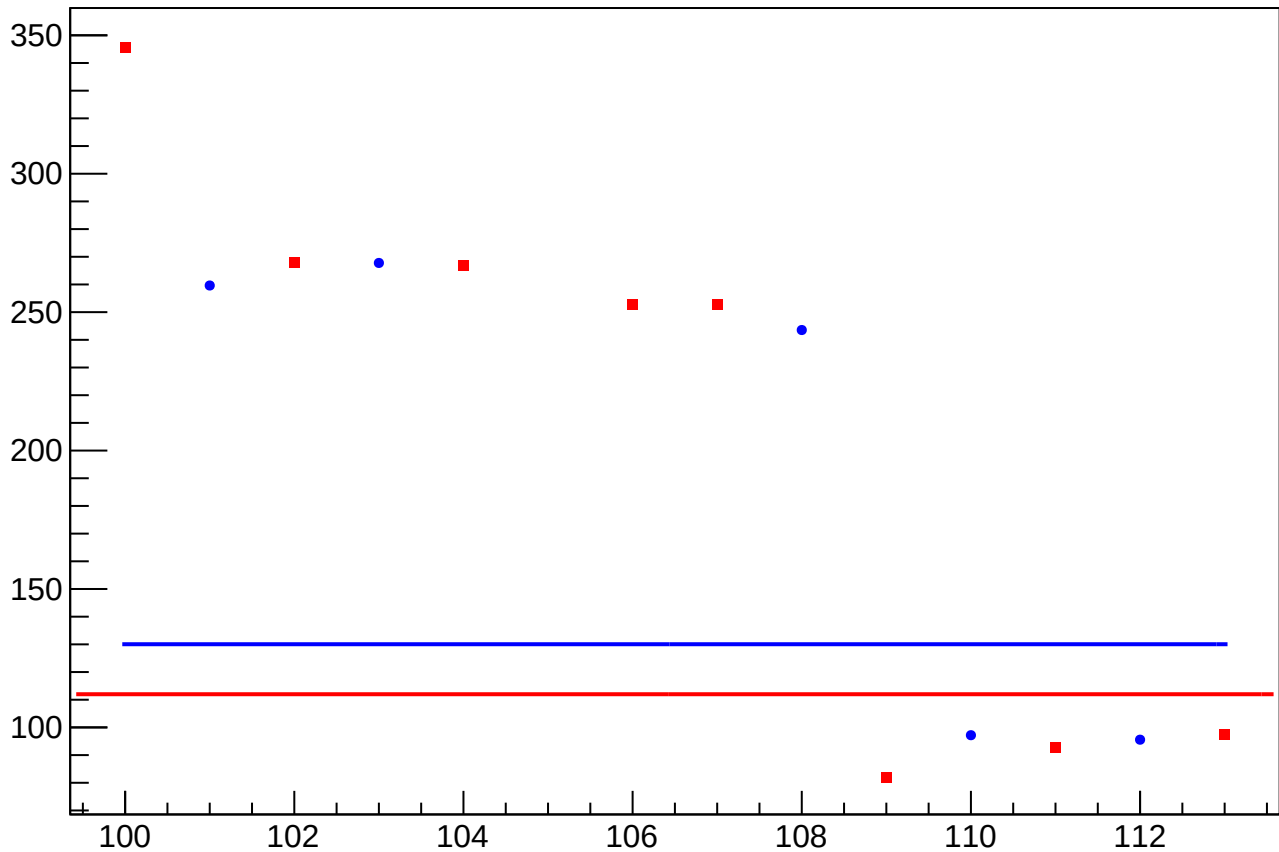
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $3.732 \pm 55.972$   $\chi^2/\text{NDF}$ : 7.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_dit\_correction\_rms vs Slug



Right In: 130.047 $\pm$ 0.065  $\chi^2$ /NDF: 1033353.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 111.987 $\pm$ 0.050  $\chi^2$ /NDF: 1398503.3/7

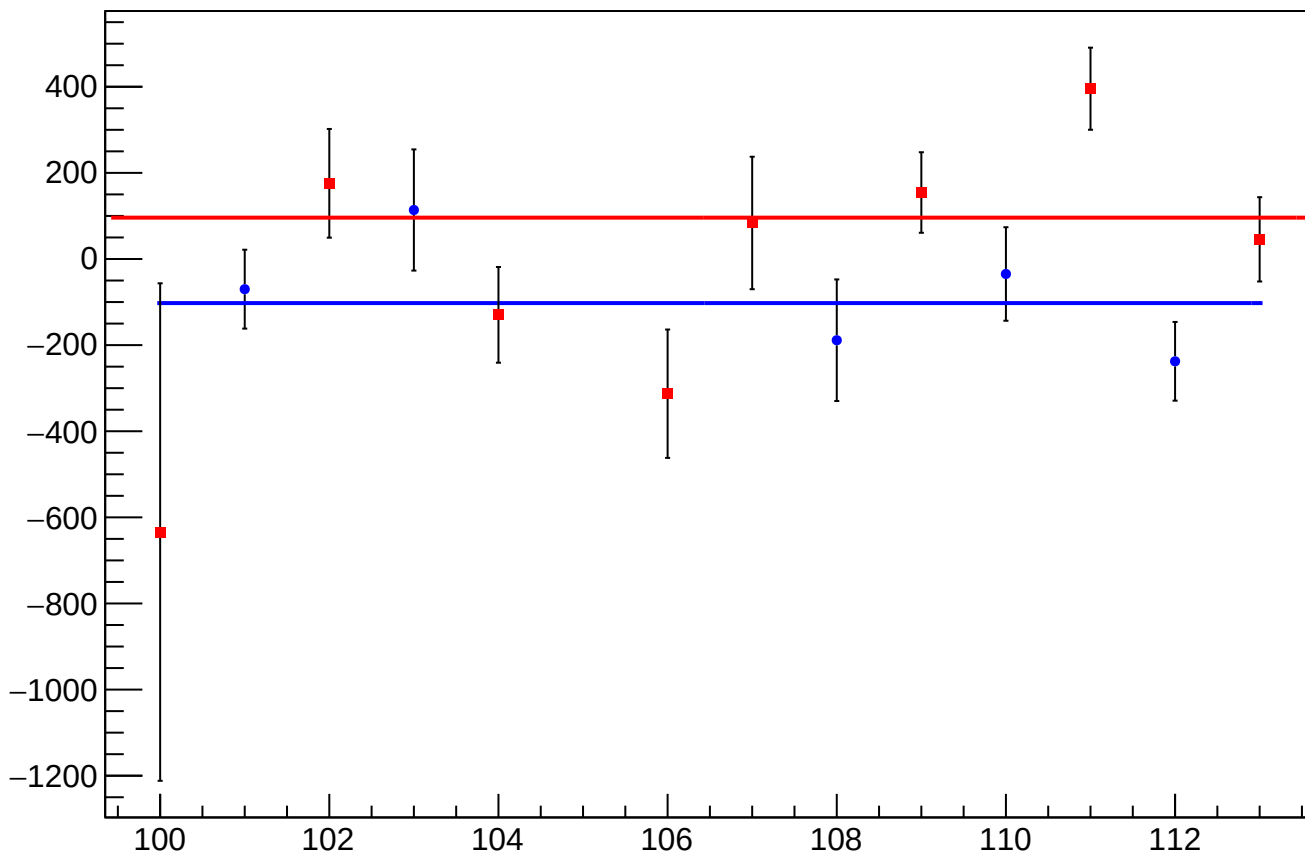
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 118.712 $\pm$ 0.040  $\chi^2$ /NDF: 2480520.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam8\_mean vs Slug



Right In: -102.396+/-48.551  $\chi^2/\text{NDF}$ : 5.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 96.012+/-42.157  $\chi^2/\text{NDF}$ : 24.2/7

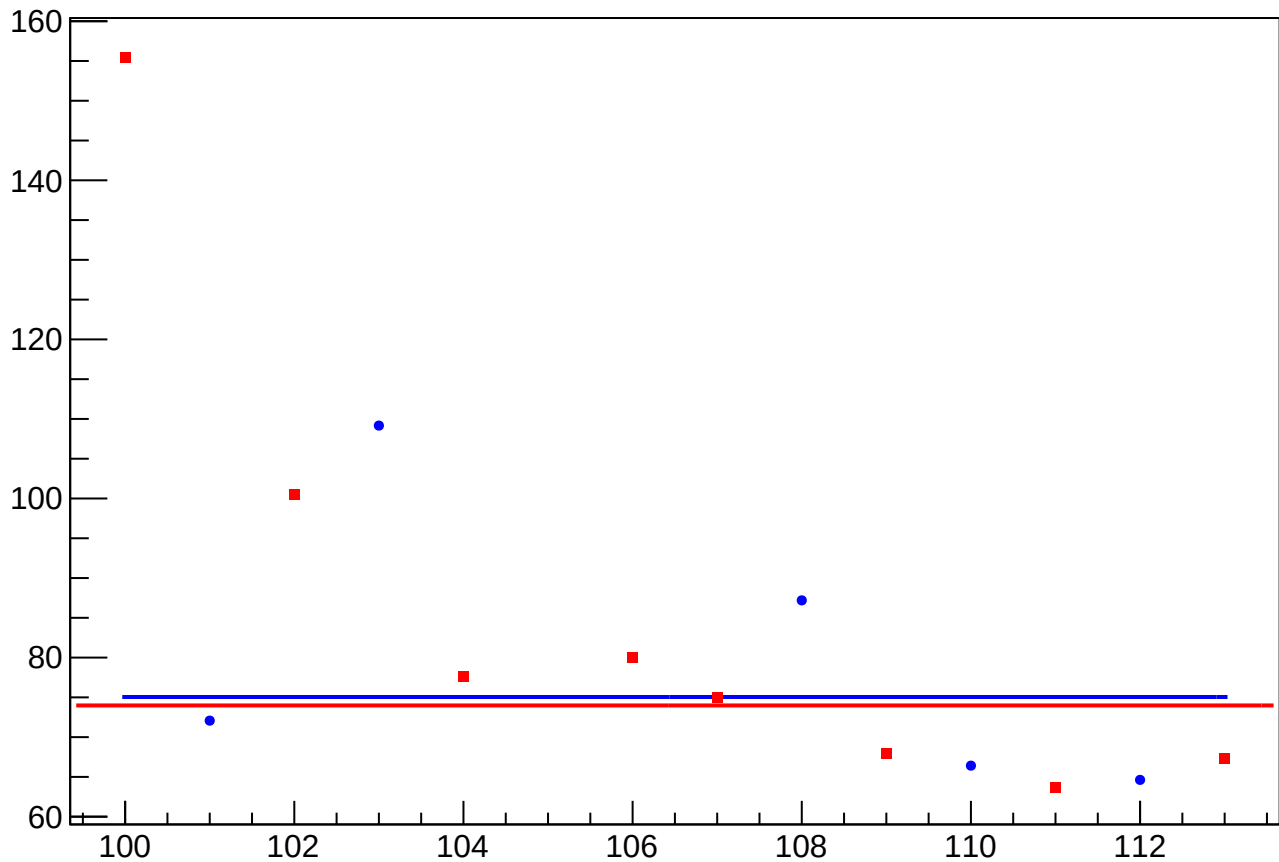
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.725+/-31.832  $\chi^2/\text{NDF}$ : 39.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam8\_rms vs Slug



Right In: 75.046 $\pm$ 0.034  $\chi^2$ /NDF: 173107.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 73.984 $\pm$ 0.030  $\chi^2$ /NDF: 174052.7/7

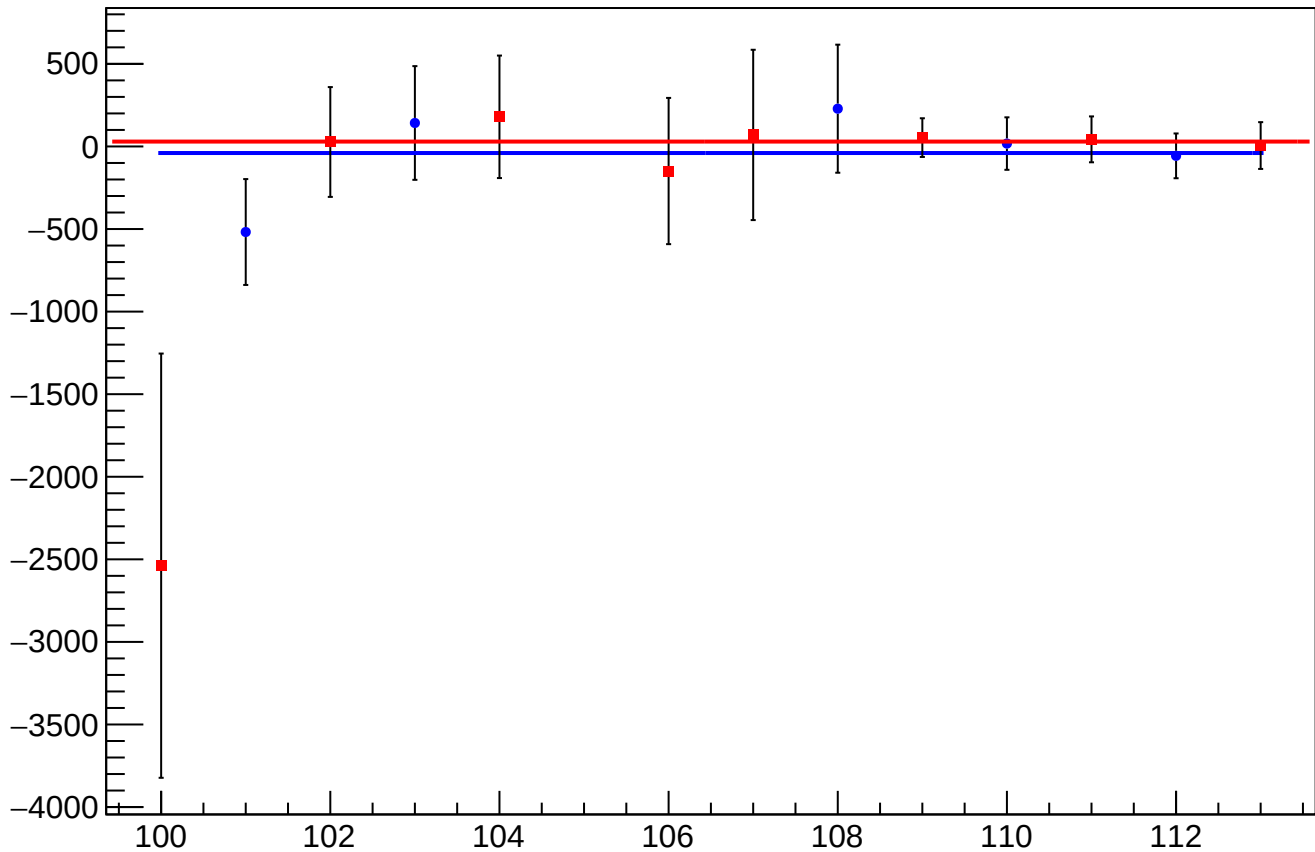
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 74.440 $\pm$ 0.023  $\chi^2$ /NDF: 347706.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_eigen\_dit\_correction\_mean vs Slug



Right In:  $-39.762 \pm 91.720$   $\chi^2/\text{NDF}$ : 3.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $29.541 \pm 70.652$   $\chi^2/\text{NDF}$ : 4.4/7

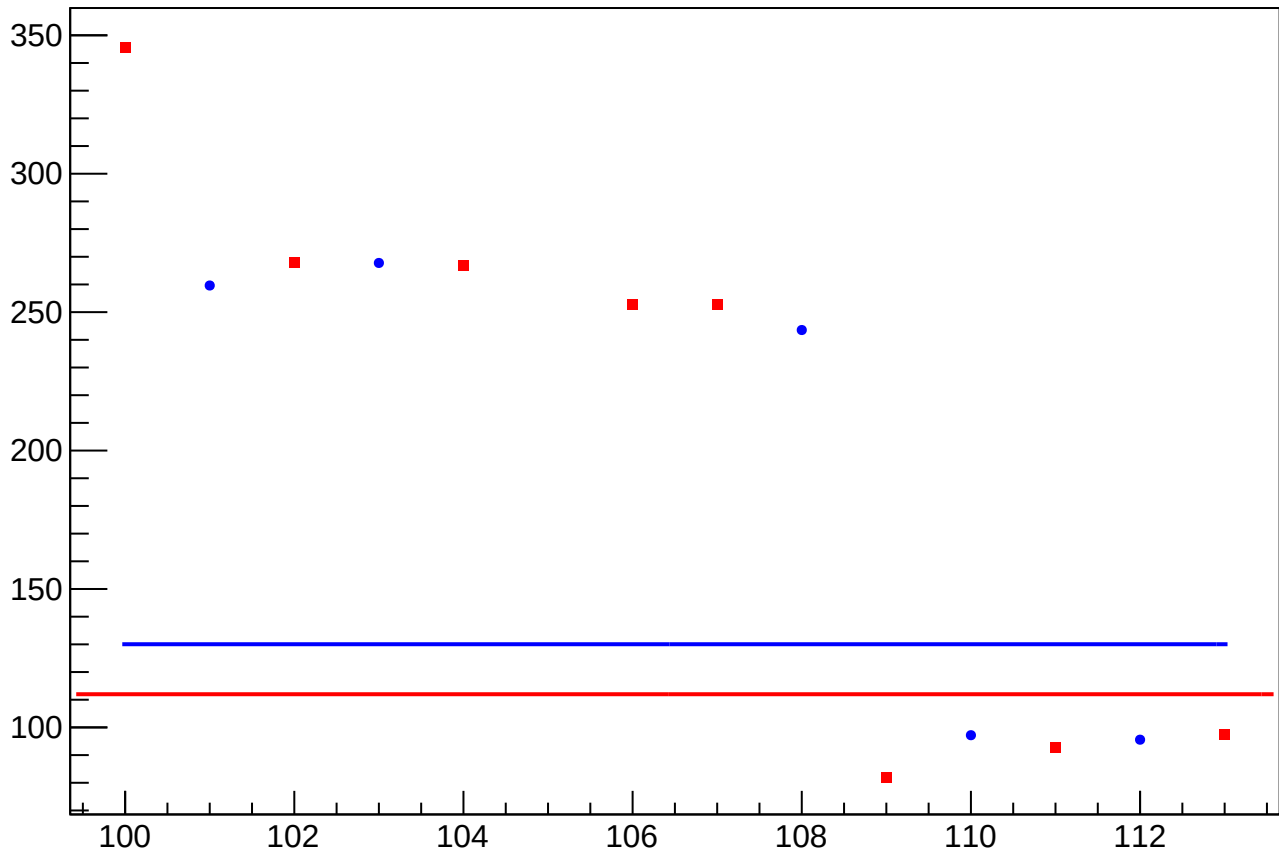
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $3.733 \pm 55.971$   $\chi^2/\text{NDF}$ : 7.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_eigen\_dit\_correction\_rms vs Slug



Right In: 130.046 $\pm$ 0.065  $\chi^2$ /NDF: 1033354.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 111.987 $\pm$ 0.050  $\chi^2$ /NDF: 1398489.4/7

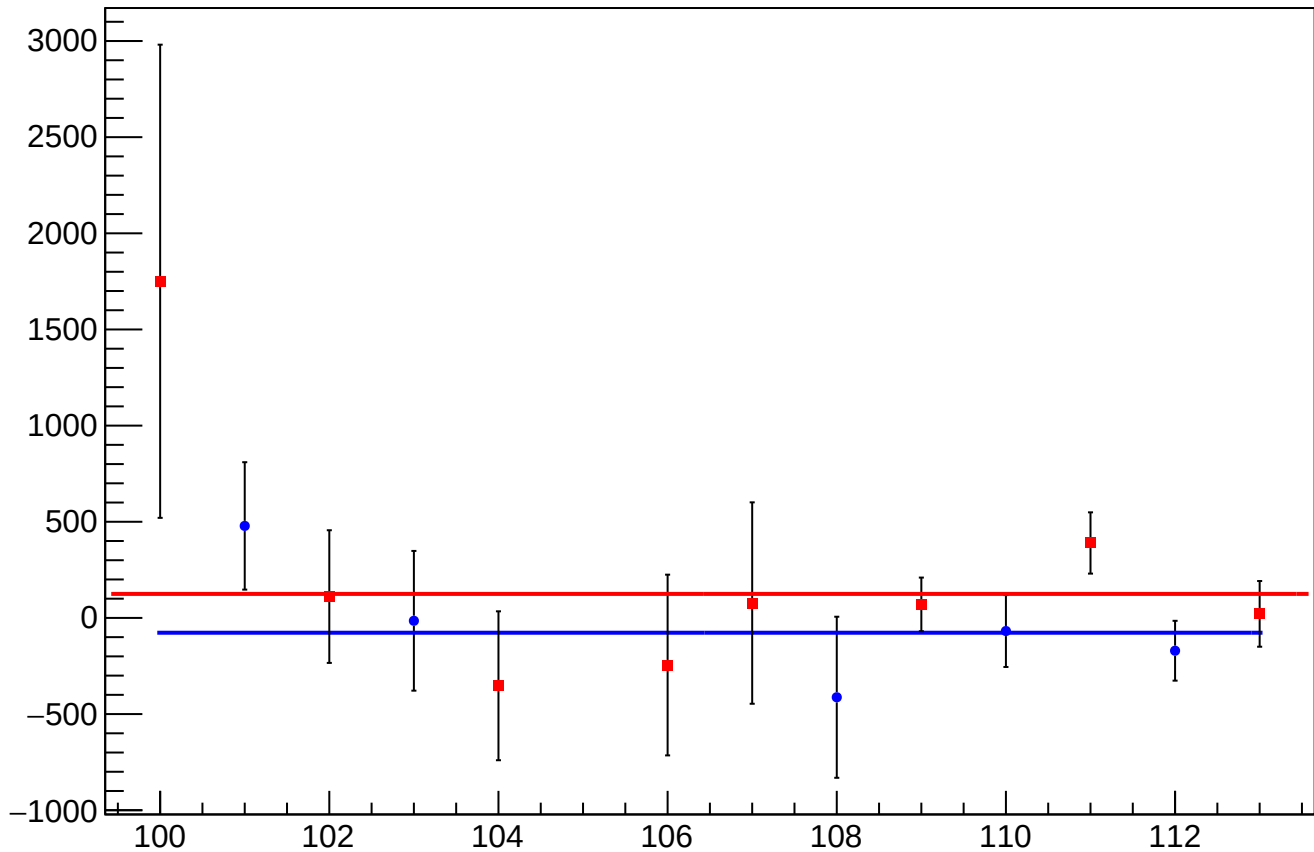
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 118.712 $\pm$ 0.040  $\chi^2$ /NDF: 2480503.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_mean vs Slug



Right In:  $-76.984 \pm 104.086$   $\chi^2/\text{NDF}$ : 3.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $124.859 \pm 81.926$   $\chi^2/\text{NDF}$ : 7.2/7

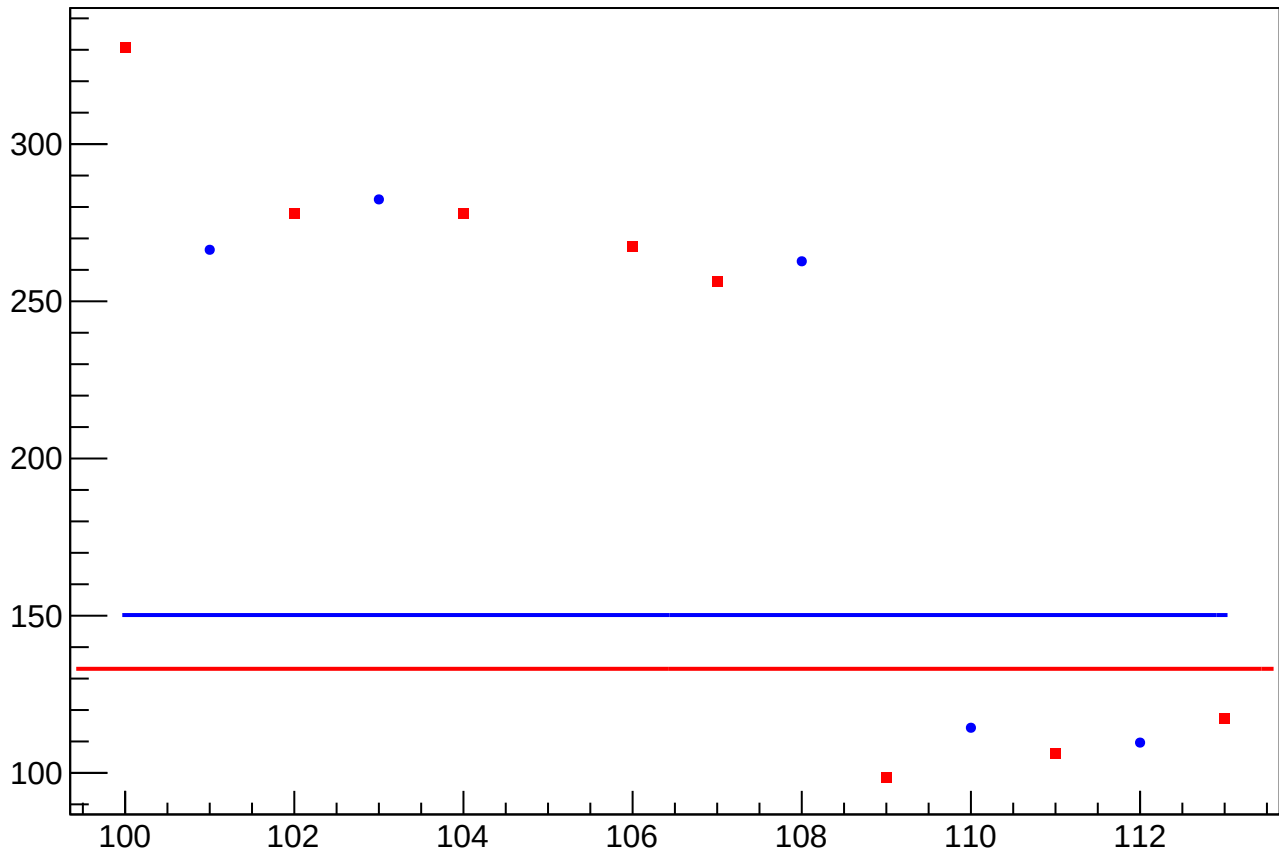
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $47.646 \pm 64.377$   $\chi^2/\text{NDF}$ : 13.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_rms vs Slug



Right In: 150.211+/-0.074  $\chi^2/\text{NDF}$ : 864656.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 133.109+/-0.058  $\chi^2/\text{NDF}$ : 1155126.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

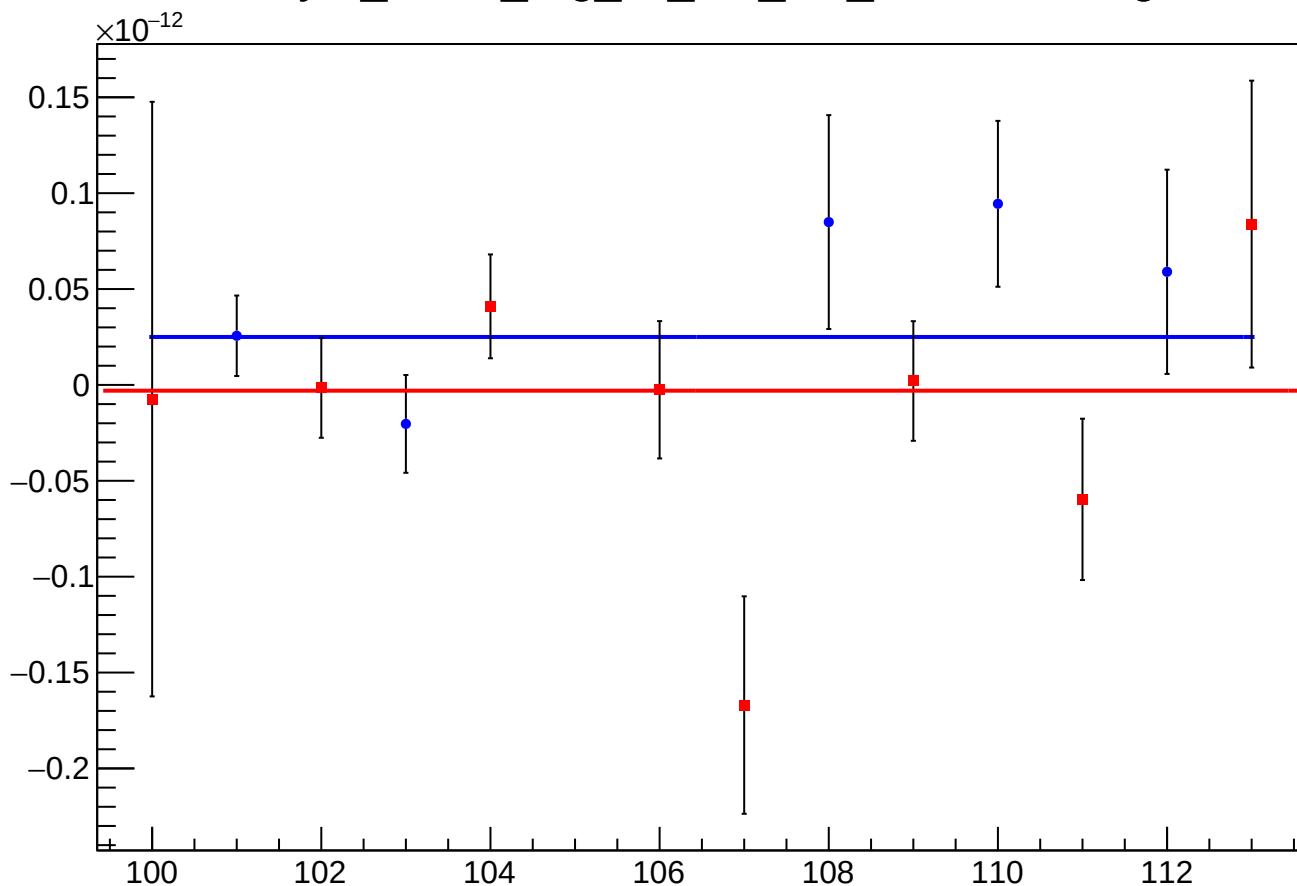
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 139.651+/-0.046  $\chi^2/\text{NDF}$ : 2053122.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam8\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.2/7

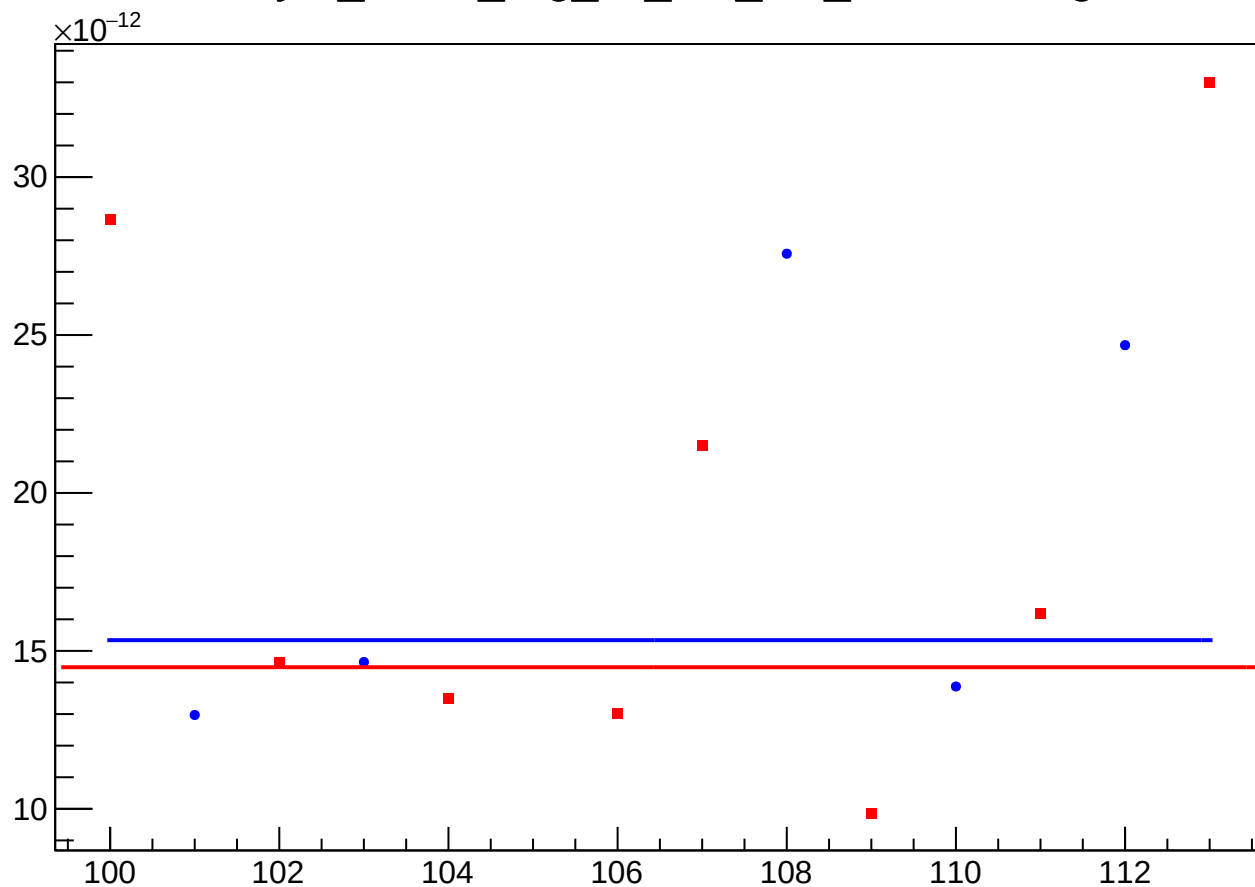
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 23.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 187035.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 223087.8/7

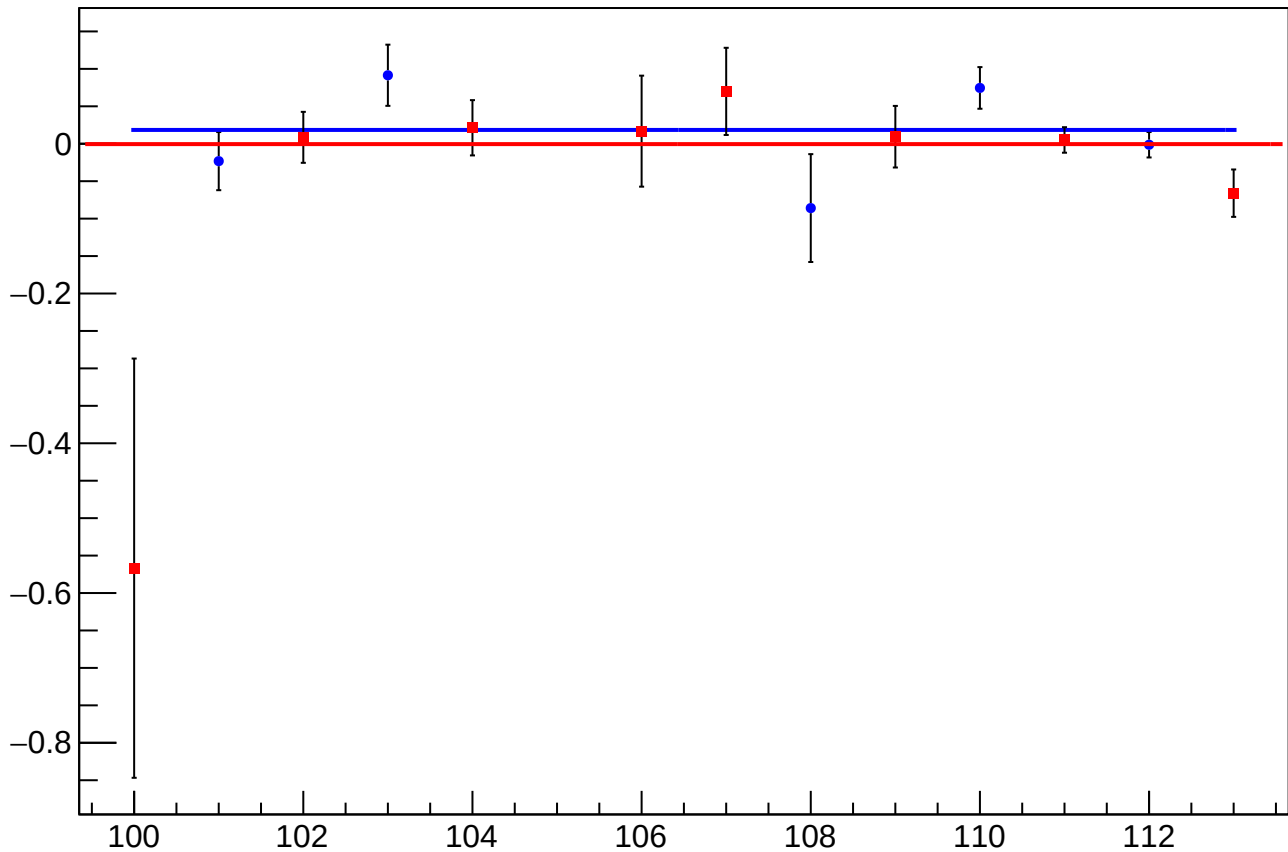
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 414048.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.018 $\pm$ 0.013  $\chi^2$ /NDF: 11.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.012  $\chi^2$ /NDF: 10.5/7

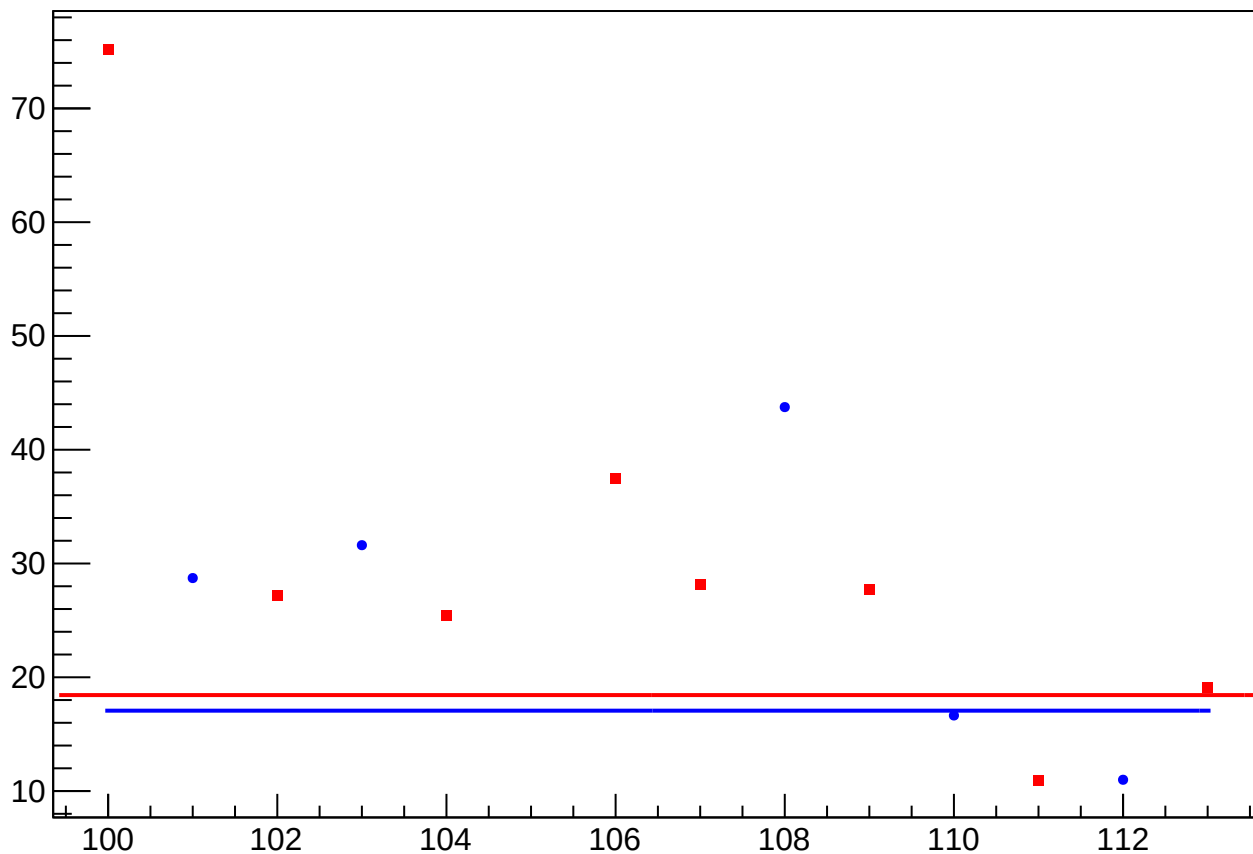
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.009  $\chi^2$ /NDF: 23.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 17.066+/-0.009  $\chi^2/\text{NDF}$ : 964319.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.436+/-0.008  $\chi^2/\text{NDF}$ : 966256.0/7

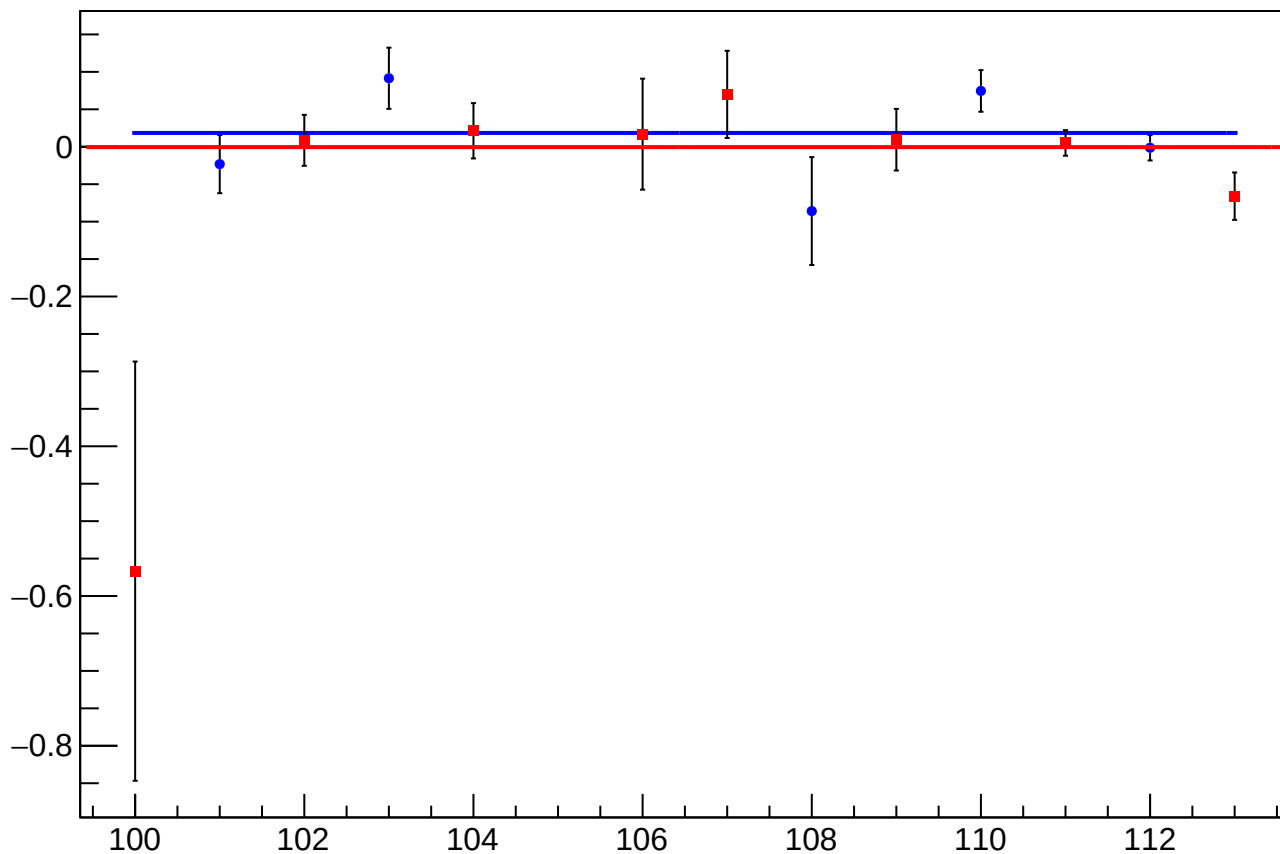
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.797+/-0.006  $\chi^2/\text{NDF}$ : 1943032.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam8\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.018 $\pm$ 0.013  $\chi^2$ /NDF: 11.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.012  $\chi^2$ /NDF: 10.5/7

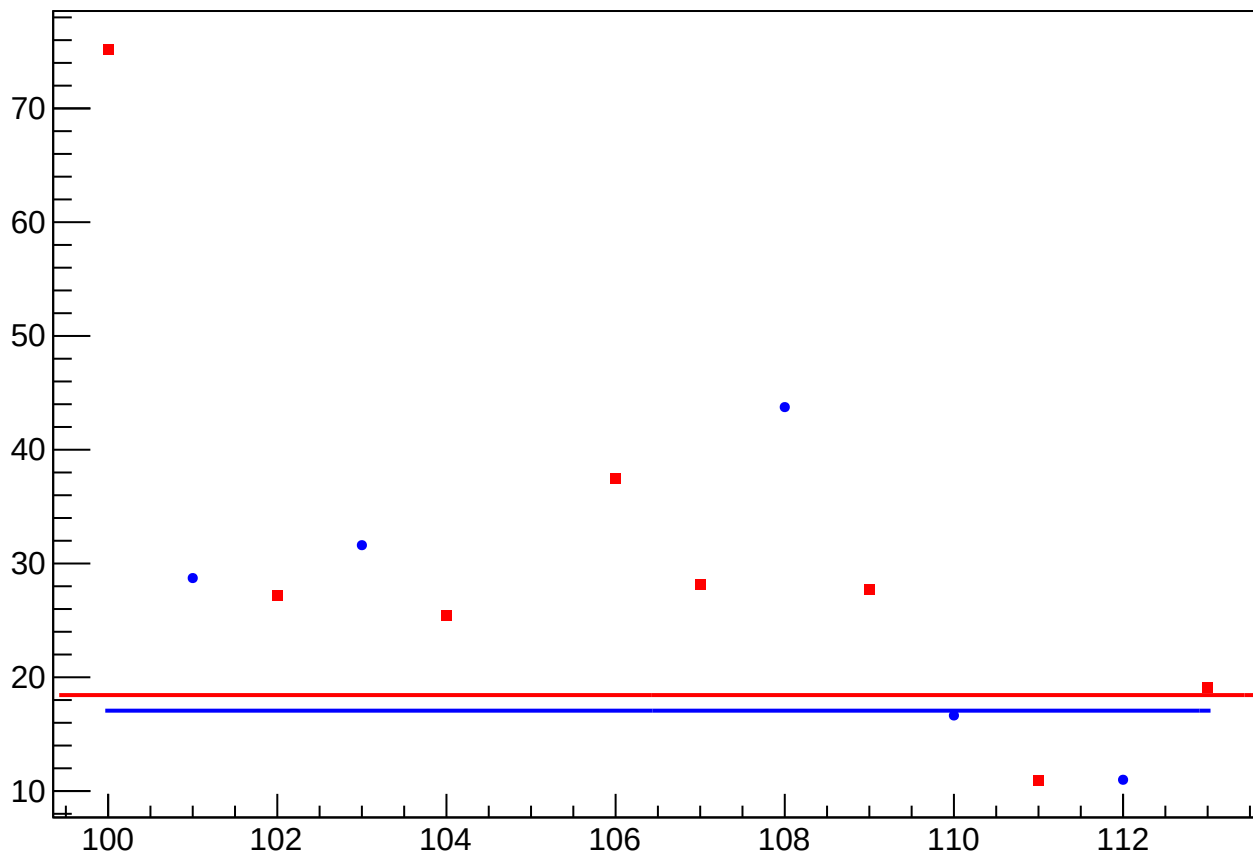
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.009  $\chi^2$ /NDF: 23.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 17.066+/-0.009  $\chi^2/\text{NDF}$ : 964319.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.436+/-0.008  $\chi^2/\text{NDF}$ : 966256.0/7

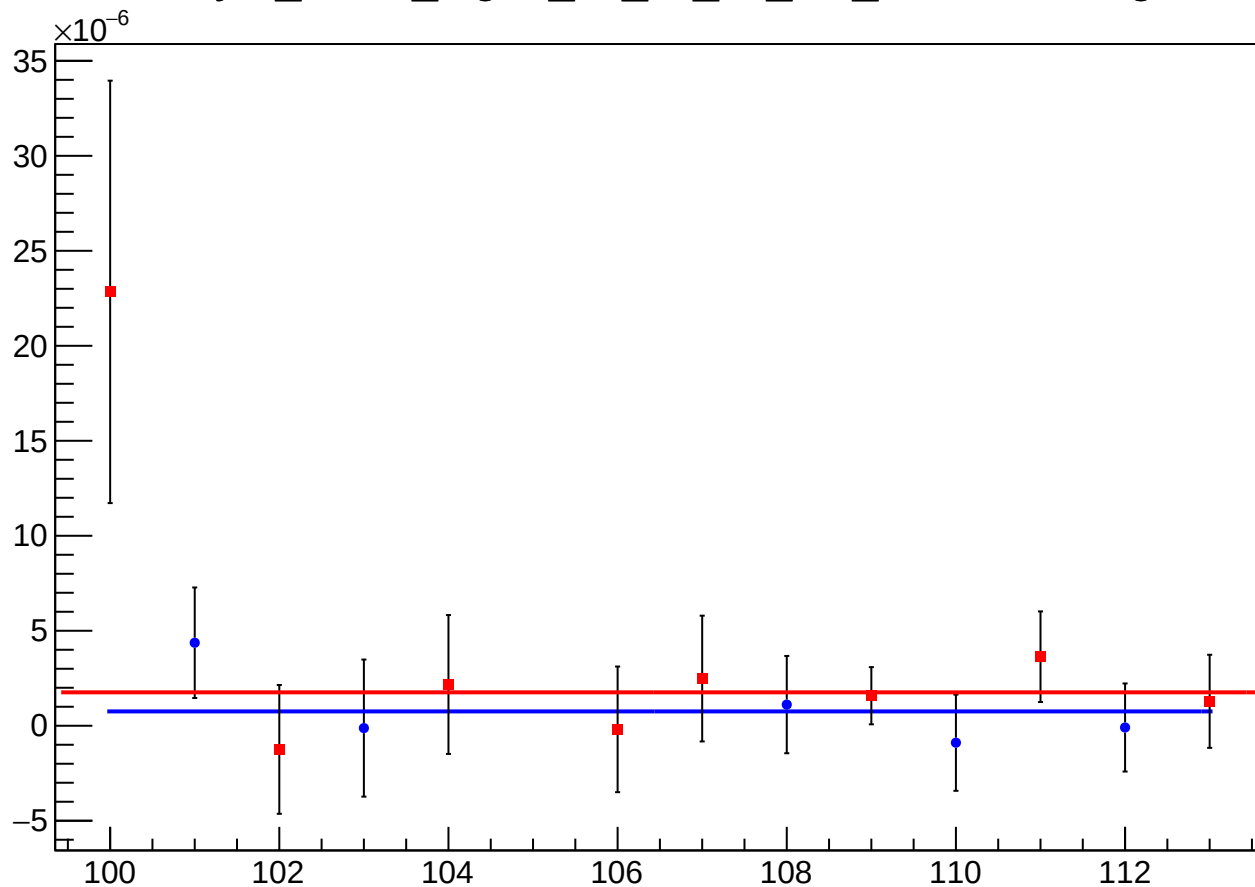
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.797+/-0.006  $\chi^2/\text{NDF}$ : 1943032.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.5/7

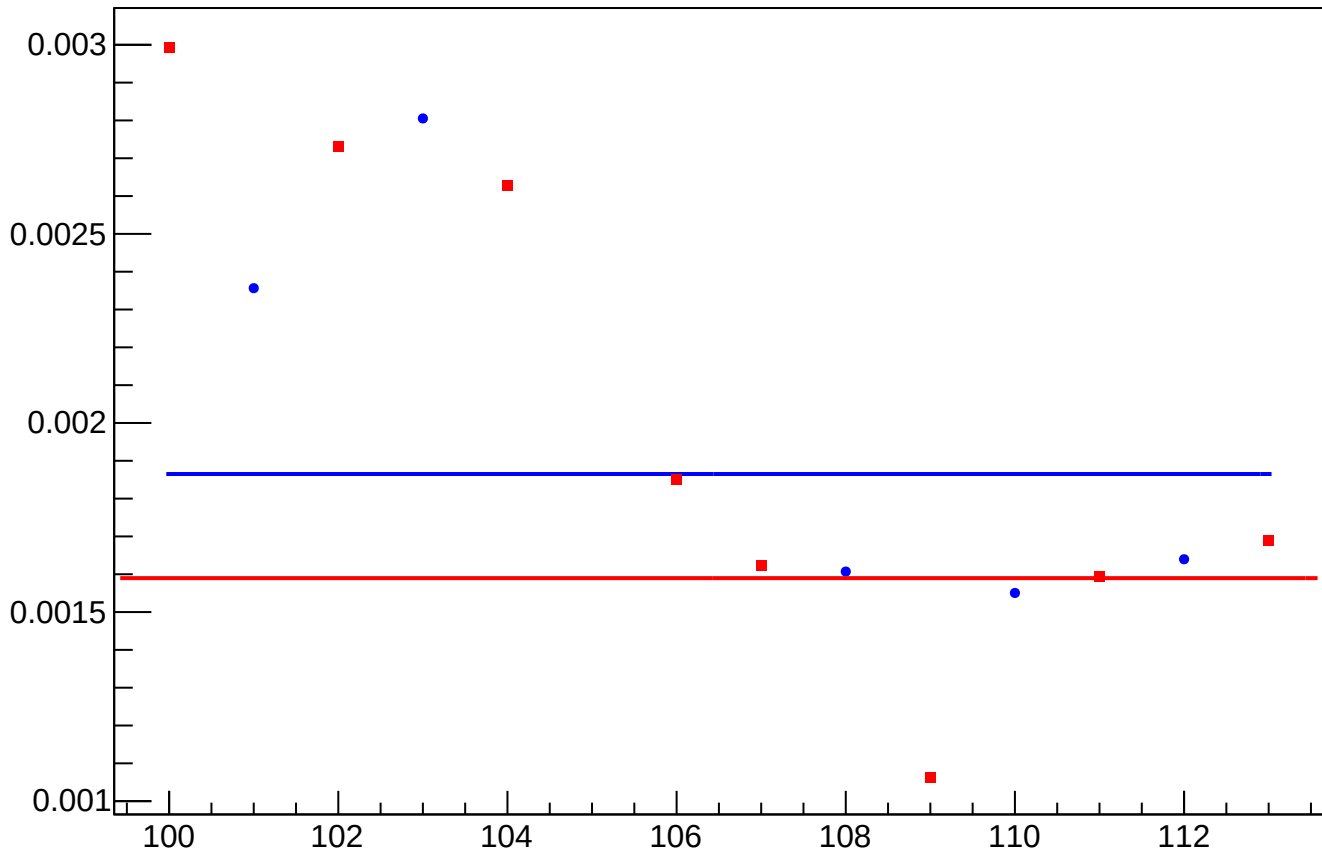
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 262959.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 680738.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

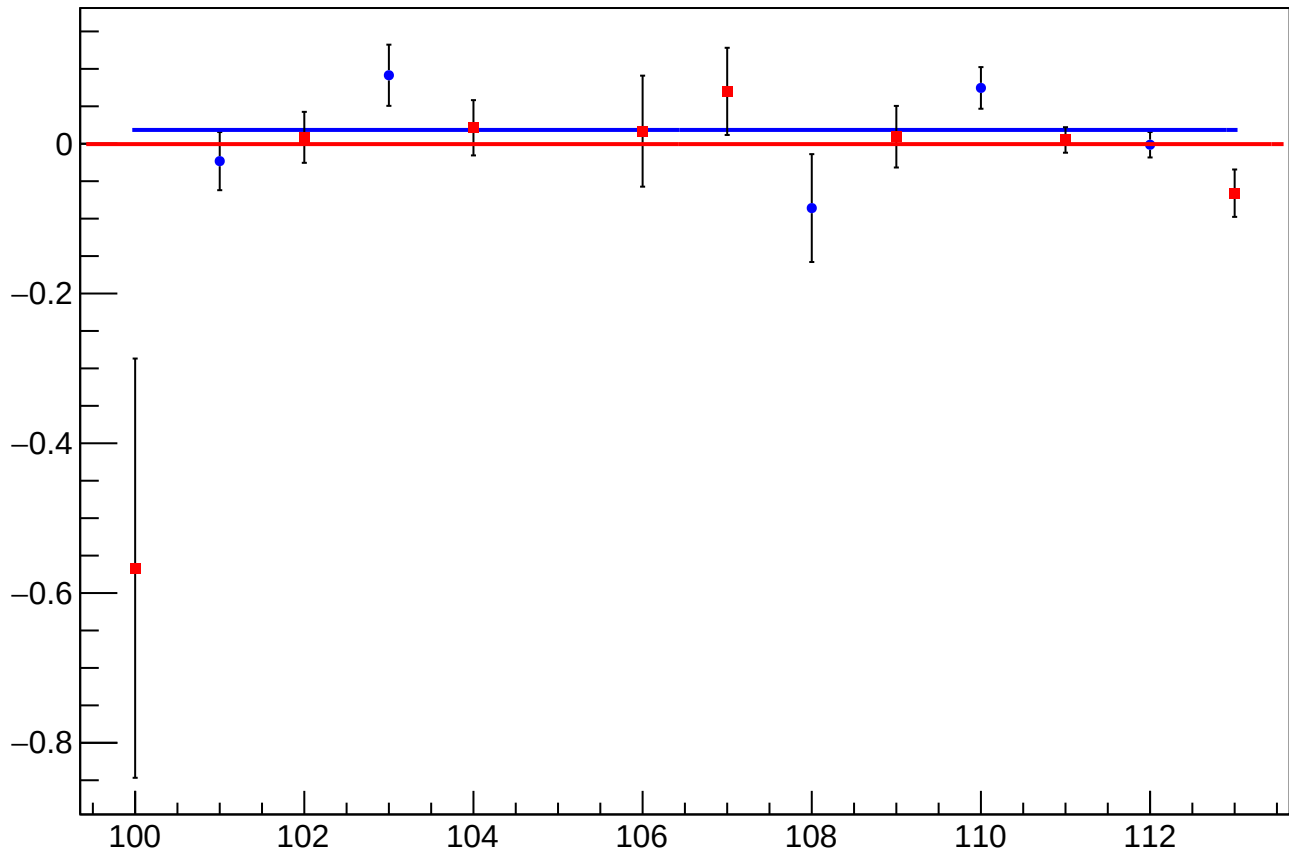
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1008754.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam8\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.018 $\pm$ 0.013  $\chi^2$ /NDF: 11.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.012  $\chi^2$ /NDF: 10.5/7

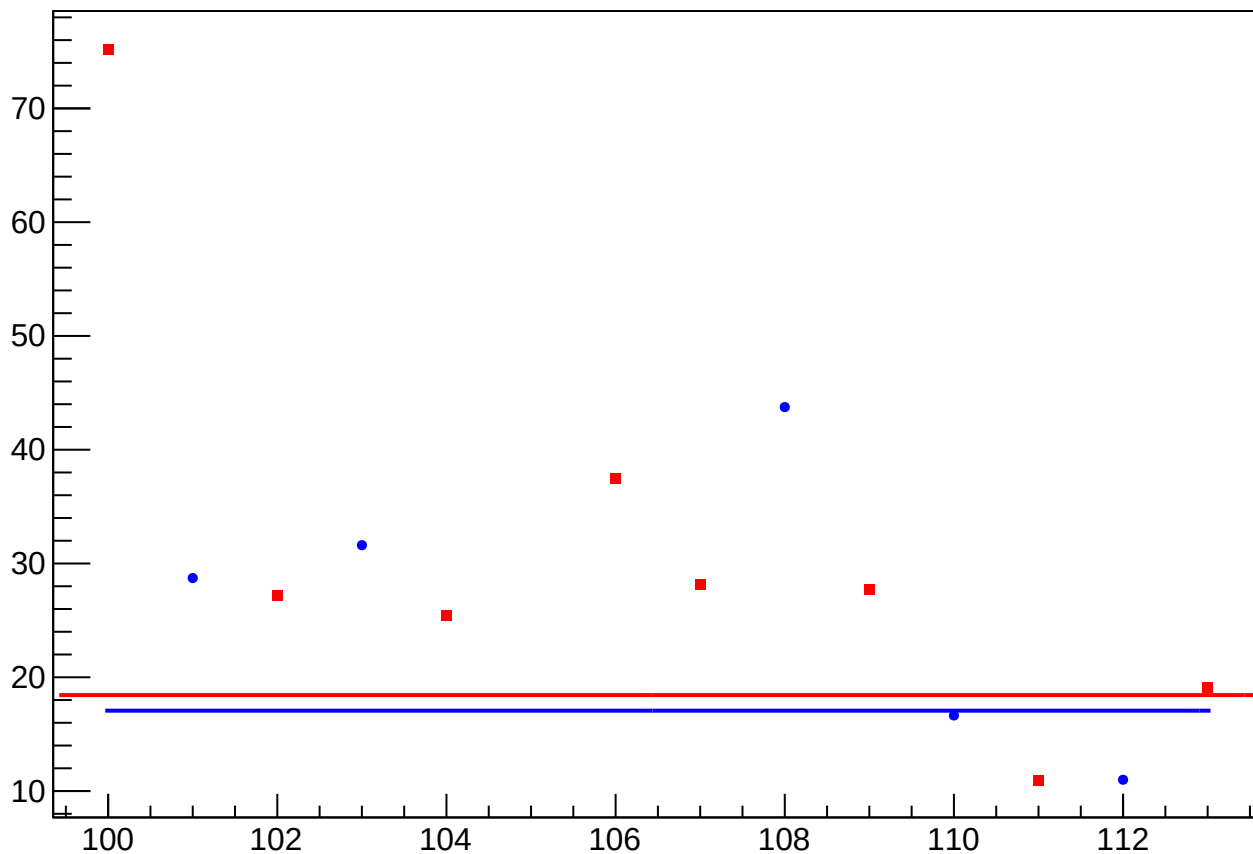
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.009  $\chi^2$ /NDF: 23.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 17.065+/-0.009  $\chi^2/\text{NDF}$ : 964408.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.435+/-0.008  $\chi^2/\text{NDF}$ : 966369.3/7

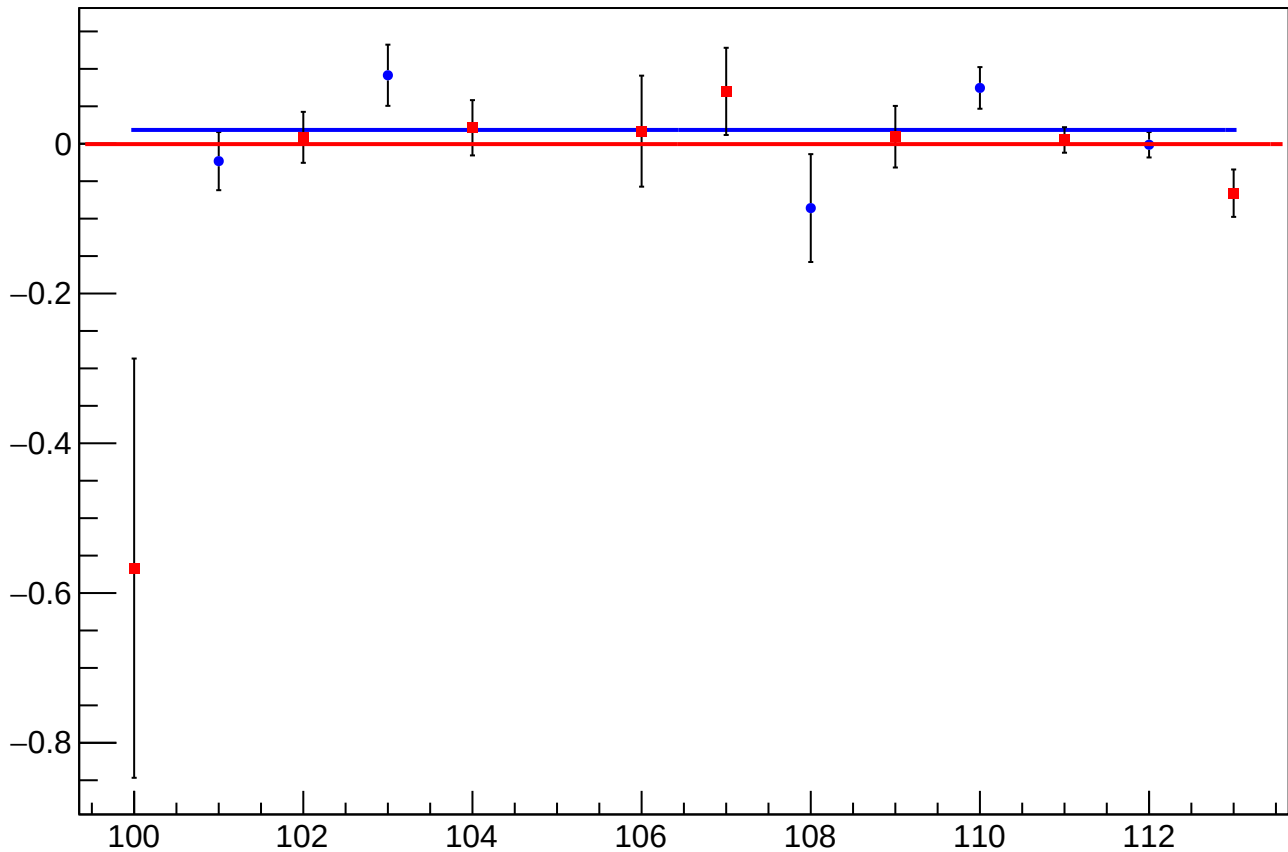
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.796+/-0.006  $\chi^2/\text{NDF}$ : 1943237.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam8\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.018 $\pm$ 0.013  $\chi^2$ /NDF: 11.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.012  $\chi^2$ /NDF: 10.5/7

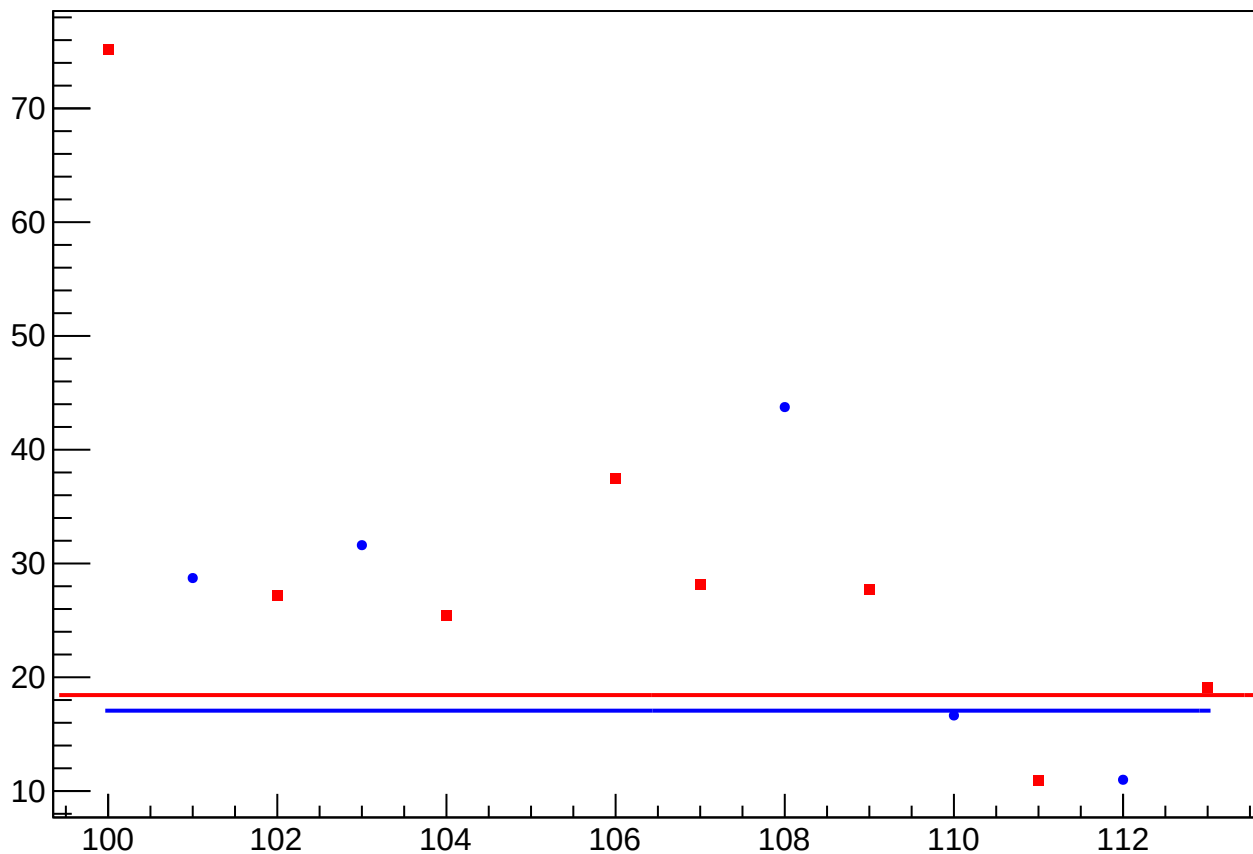
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.009  $\chi^2$ /NDF: 23.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam8\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 17.065+/-0.009  $\chi^2/\text{NDF}$ : 964408.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.435+/-0.008  $\chi^2/\text{NDF}$ : 966369.3/7

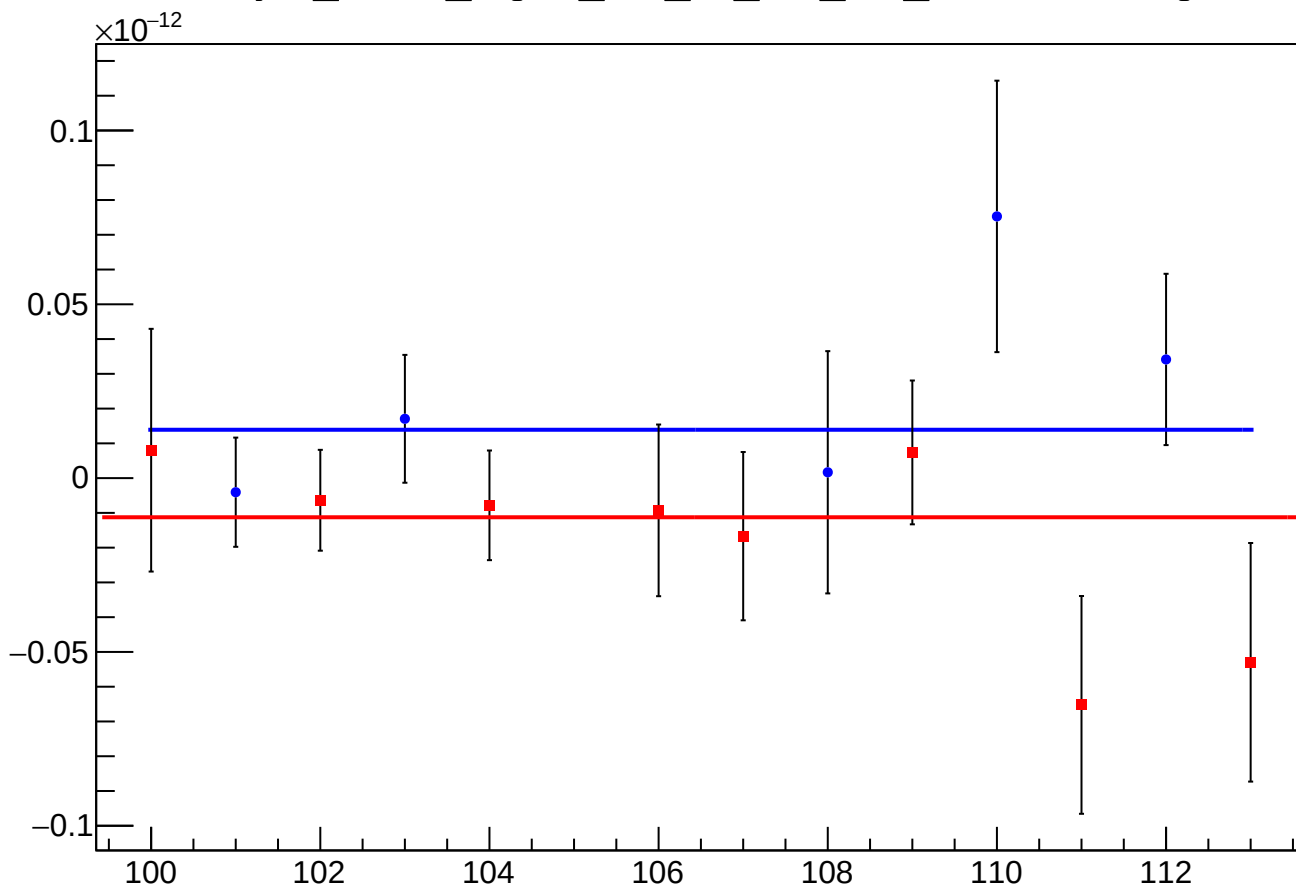
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.796+/-0.006  $\chi^2/\text{NDF}$ : 1943237.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam8\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.8/7

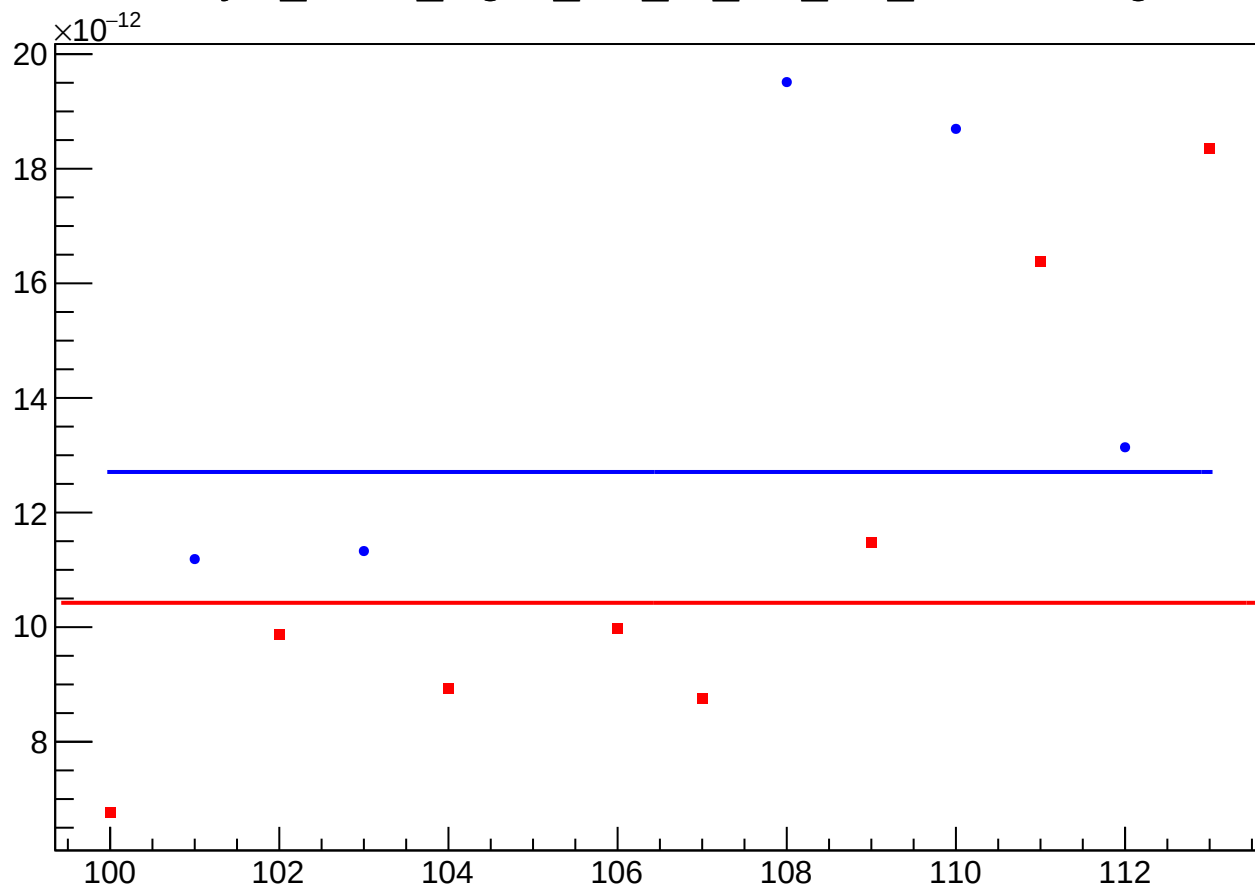
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 153910.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 237477.9/7

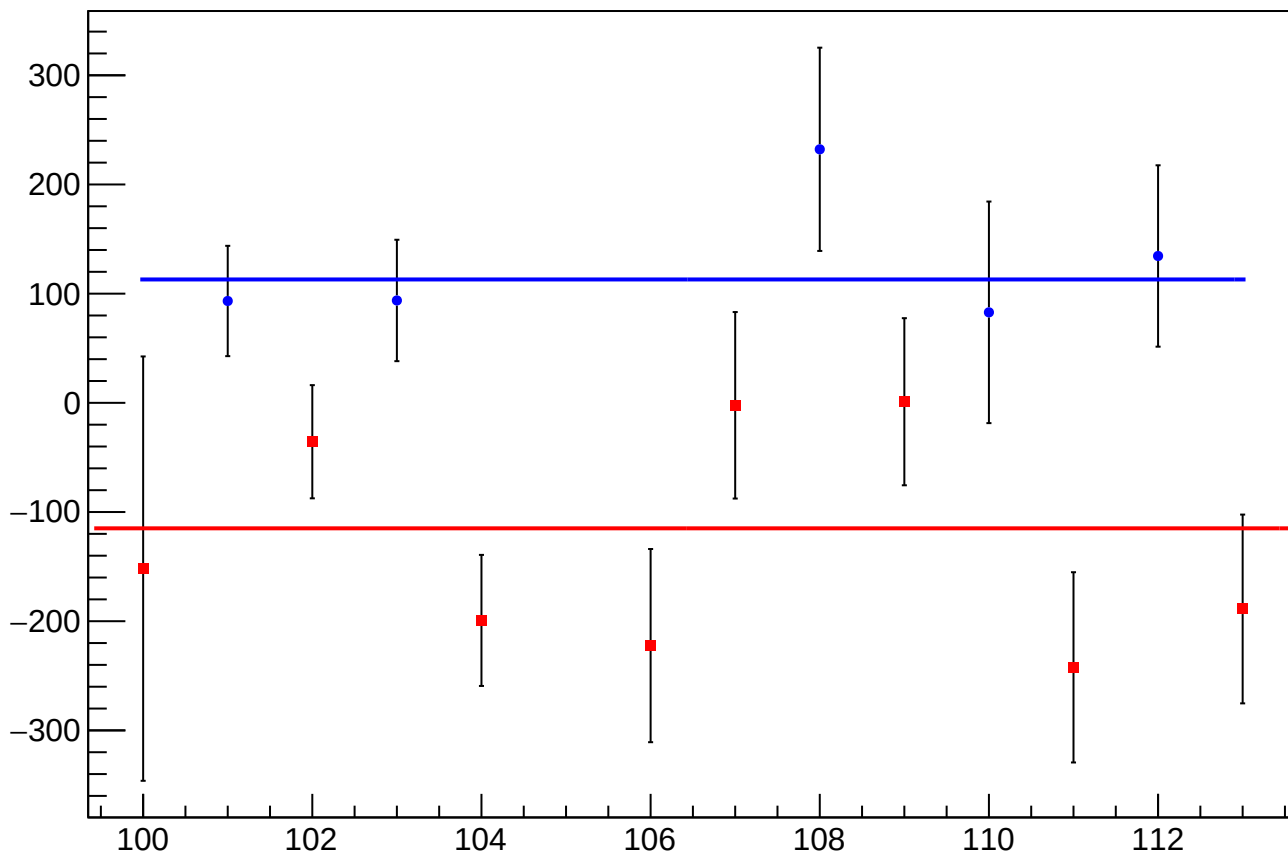
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 457814.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 113.005 $\pm$ 30.530  $\chi^2$ /NDF: 2.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -114.936 $\pm$ 26.945  $\chi^2$ /NDF: 12.7/7

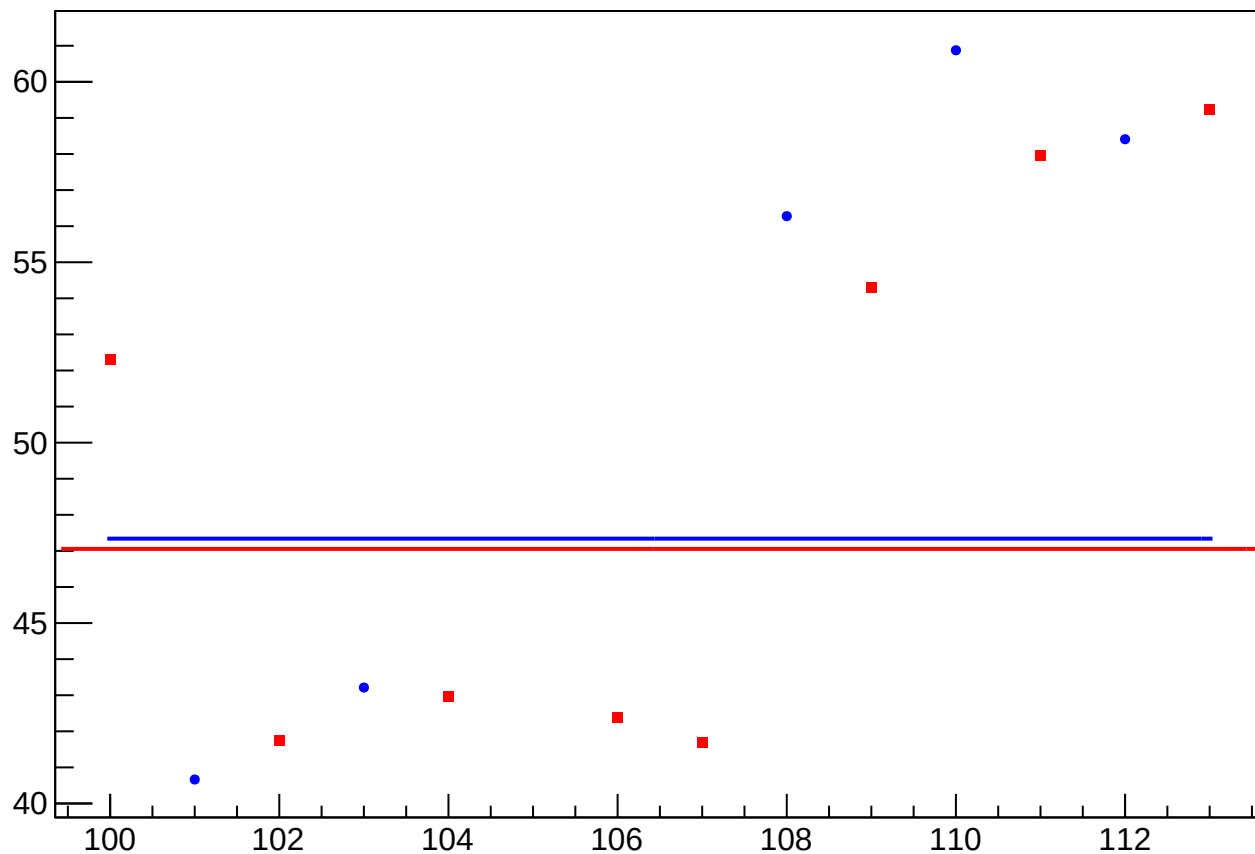
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -15.130 $\pm$ 20.202  $\chi^2$ /NDF: 46.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 47.340 $\pm$ 0.022  $\chi^2$ /NDF: 135486.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 47.056 $\pm$ 0.019  $\chi^2$ /NDF: 134066.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

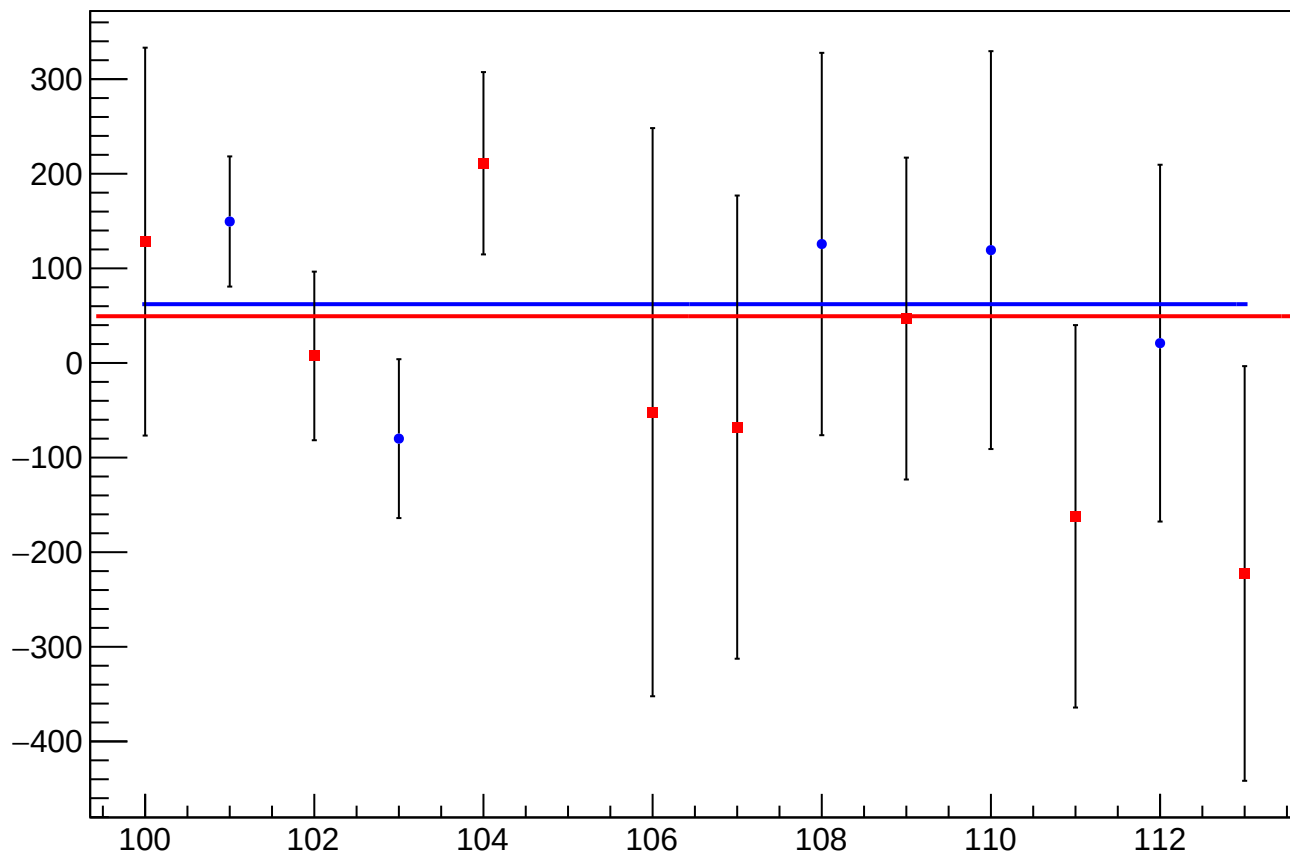
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.180 $\pm$ 0.014  $\chi^2$ /NDF: 269650.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_15\_avg\_reg\_correction\_mean vs Slug



Right In: 62.135+/-48.317  $\chi^2/\text{NDF}$ : 4.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 49.408+/-52.334  $\chi^2/\text{NDF}$ : 6.2/7

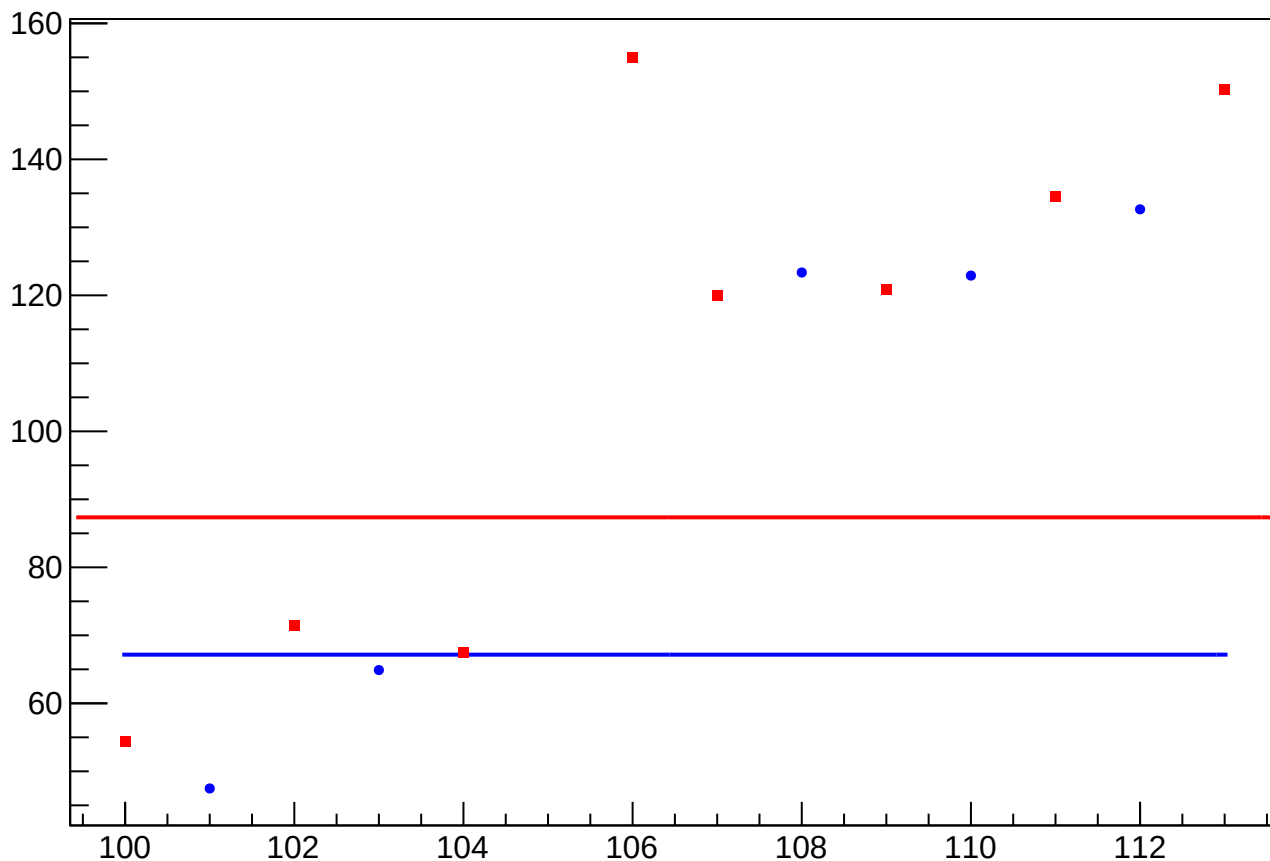
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.278+/-35.501  $\chi^2/\text{NDF}$ : 10.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_reg\_correction\_rms vs Slug



Right In: 67.160+/-0.034  $\chi^2/\text{NDF}$ : 701638.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 87.351+/-0.037  $\chi^2/\text{NDF}$ : 688623.9/7

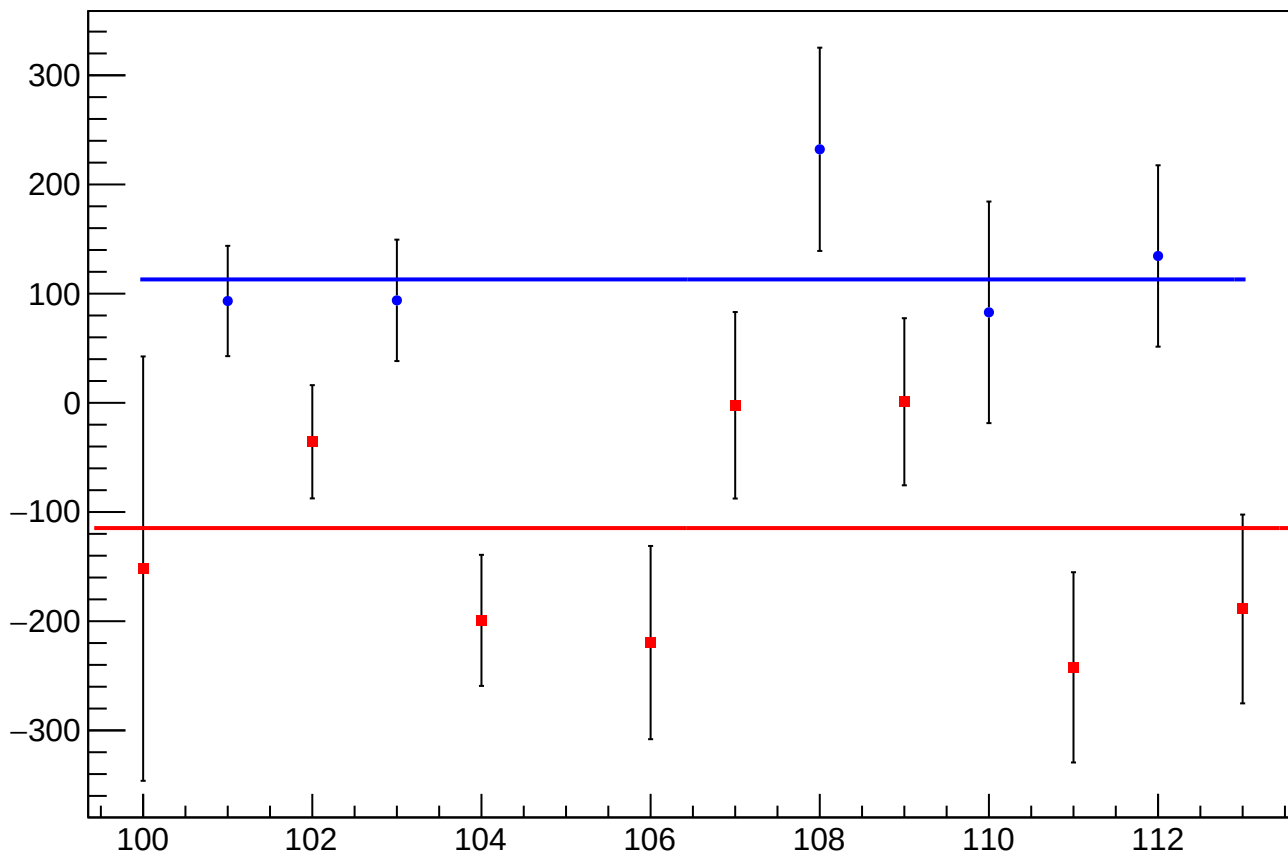
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 76.451+/-0.025  $\chi^2/\text{NDF}$ : 1550972.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 113.033 $\pm$ 30.530  $\chi^2$ /NDF: 2.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -114.694 $\pm$ 26.949  $\chi^2$ /NDF: 12.6/7

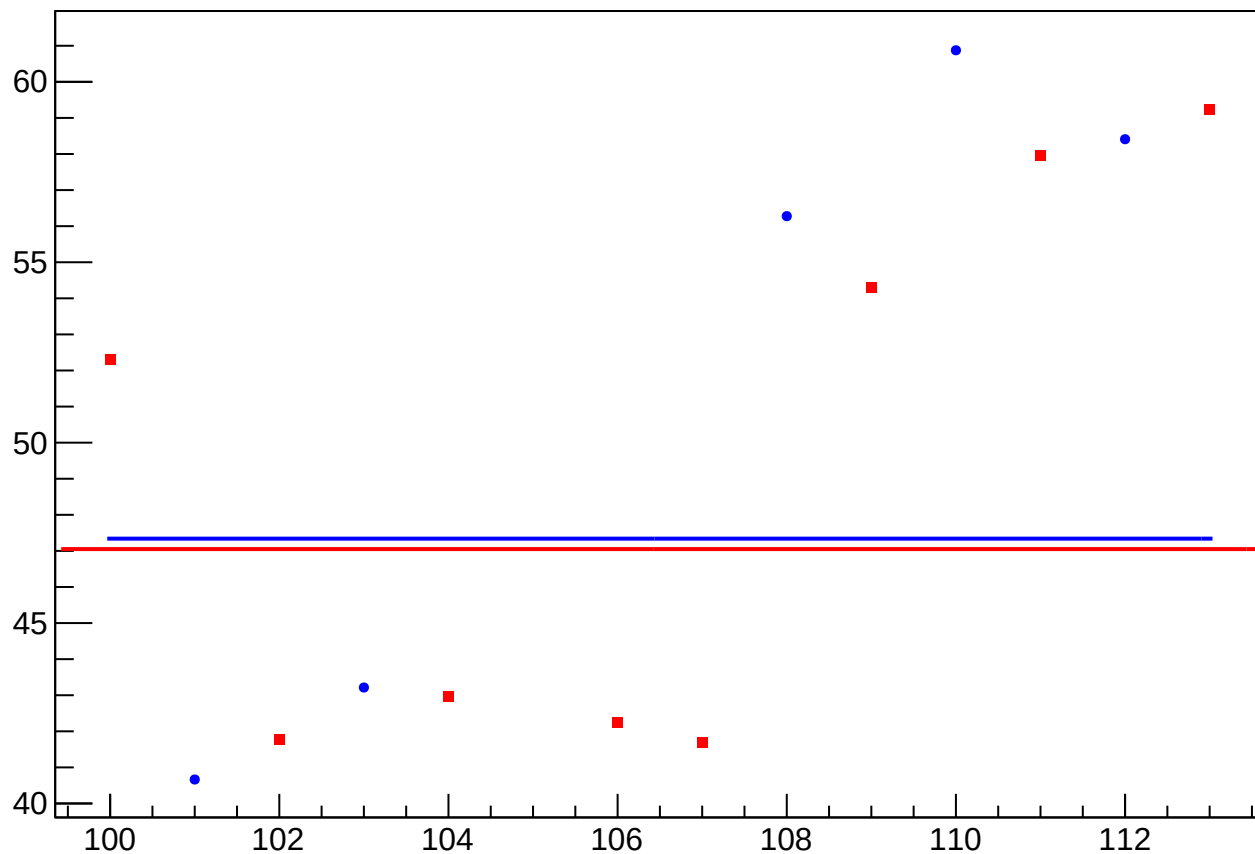
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.967 $\pm$ 20.204  $\chi^2$ /NDF: 46.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 47.340 $\pm$ 0.022  $\chi^2$ /NDF: 135486.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 47.050 $\pm$ 0.019  $\chi^2$ /NDF: 134216.8/7

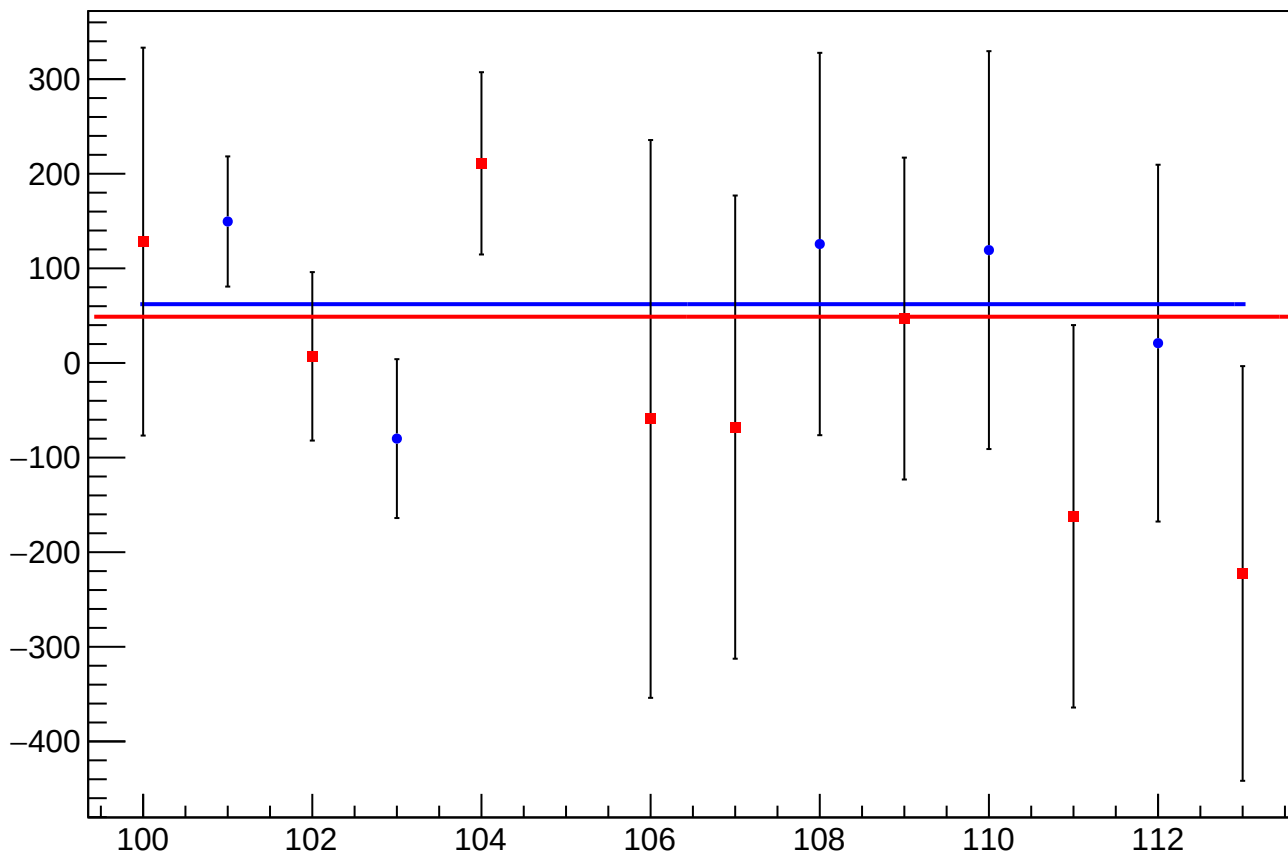
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.177 $\pm$ 0.014  $\chi^2$ /NDF: 269804.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_cor\_correction\_mean vs Slug



Right In: 62.138+/-48.316  $\chi^2/\text{NDF}$ : 4.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.887+/-52.286  $\chi^2/\text{NDF}$ : 6.2/7

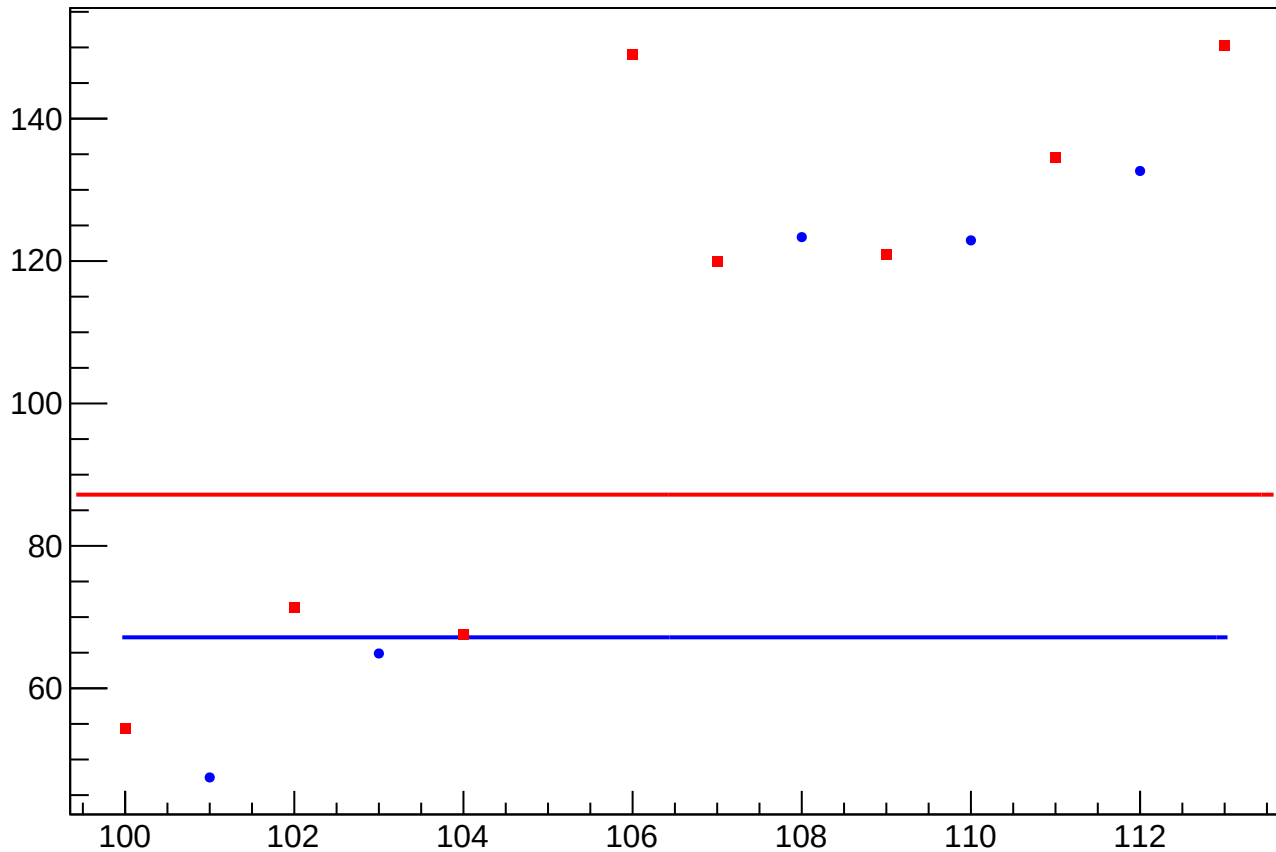
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.035+/-35.485  $\chi^2/\text{NDF}$ : 10.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_cor\_correction\_rms vs Slug



Right In: 67.158+/-0.034  $\chi^2/\text{NDF}$ : 701641.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 87.196+/-0.037  $\chi^2/\text{NDF}$ : 675299.3/7

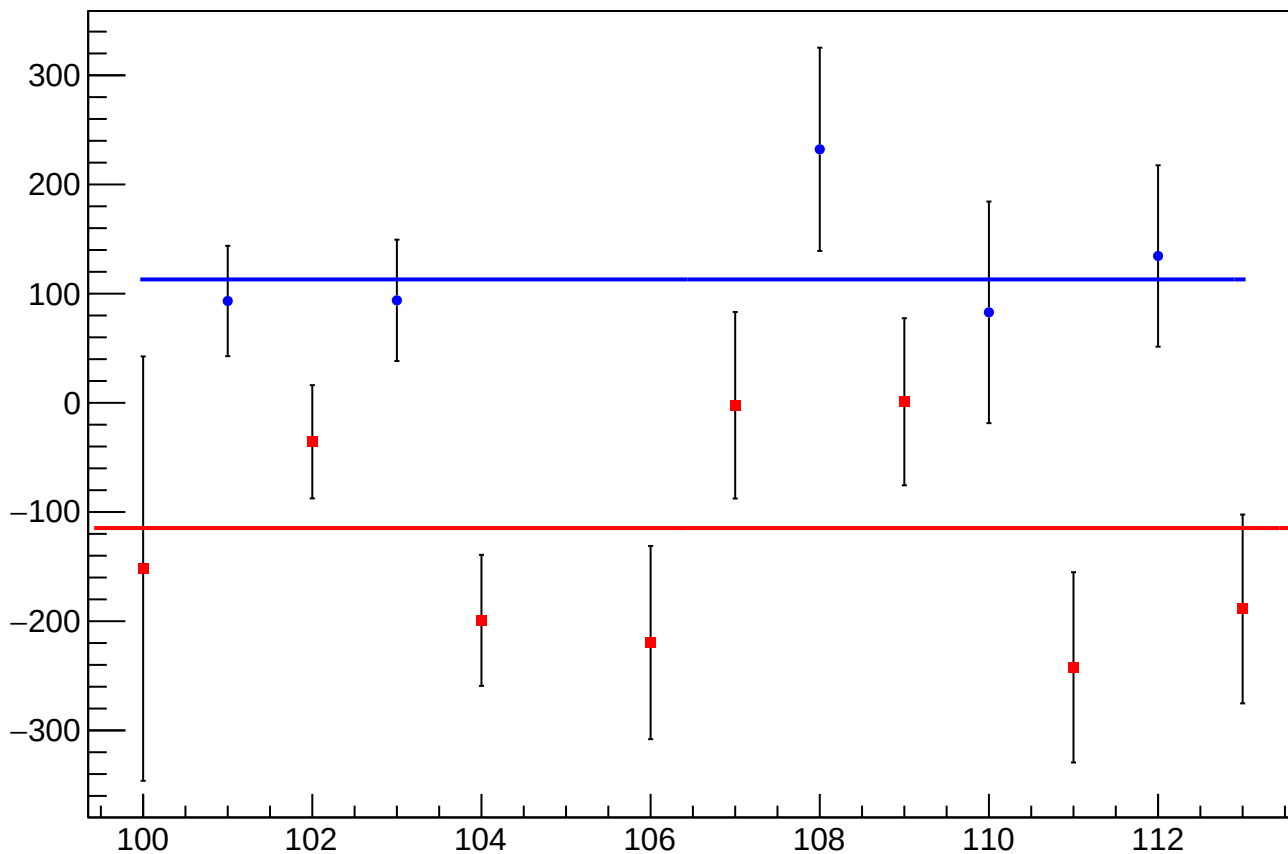
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 76.388+/-0.025  $\chi^2/\text{NDF}$ : 1535386.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 113.033 $\pm$ 30.530  $\chi^2$ /NDF: 2.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -114.694 $\pm$ 26.949  $\chi^2$ /NDF: 12.6/7

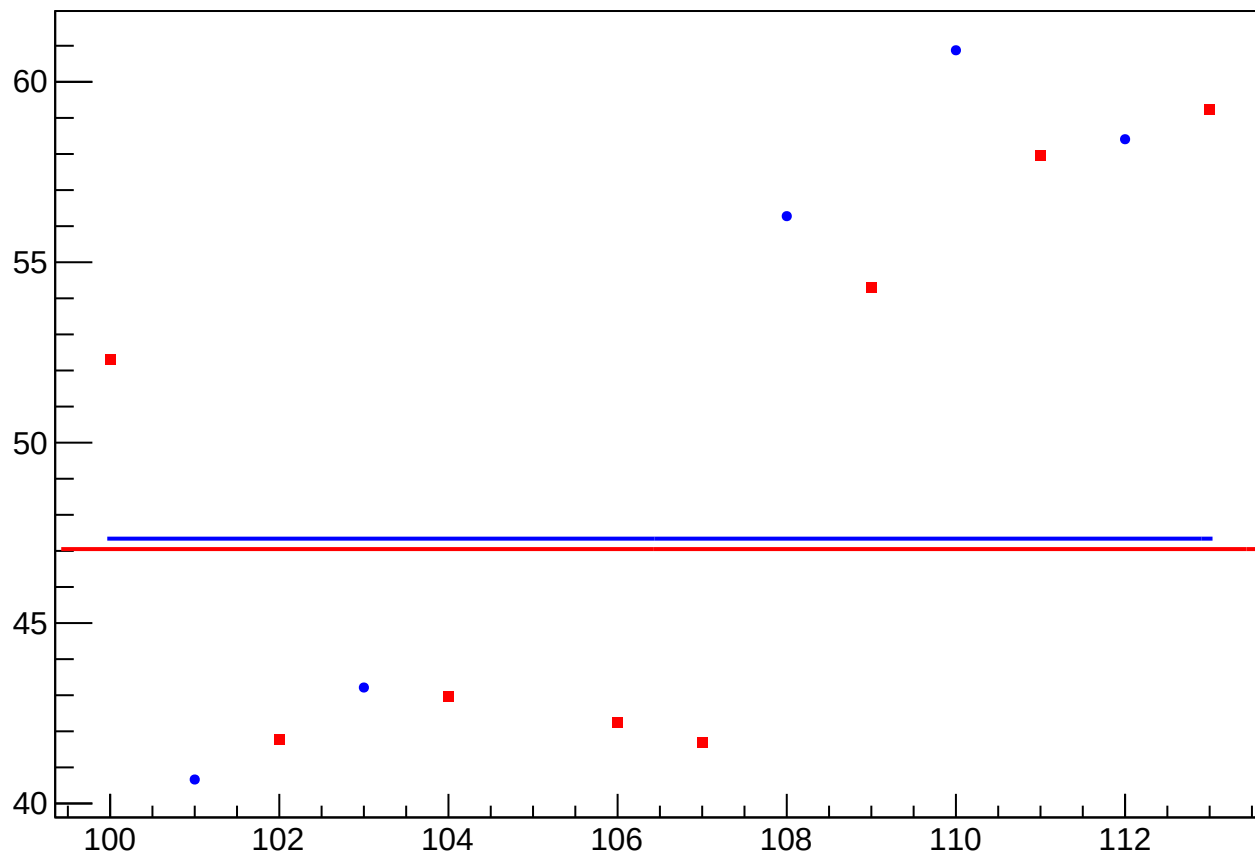
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.967 $\pm$ 20.204  $\chi^2$ /NDF: 46.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 47.340 $\pm$ 0.022  $\chi^2$ /NDF: 135486.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 47.050 $\pm$ 0.019  $\chi^2$ /NDF: 134216.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

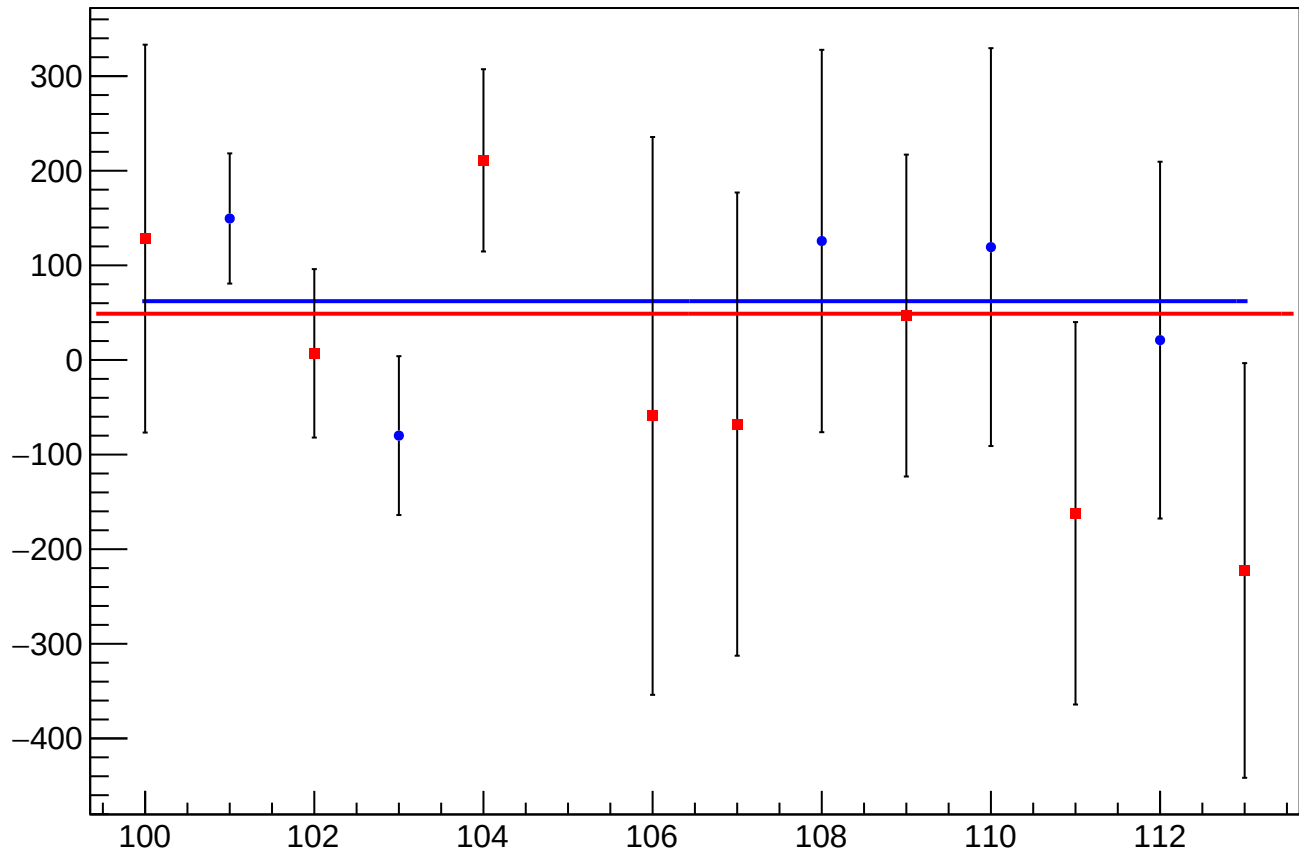
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.177 $\pm$ 0.014  $\chi^2$ /NDF: 269804.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 62.138+/-48.316  $\chi^2/\text{NDF}$ : 4.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.887+/-52.286  $\chi^2/\text{NDF}$ : 6.2/7

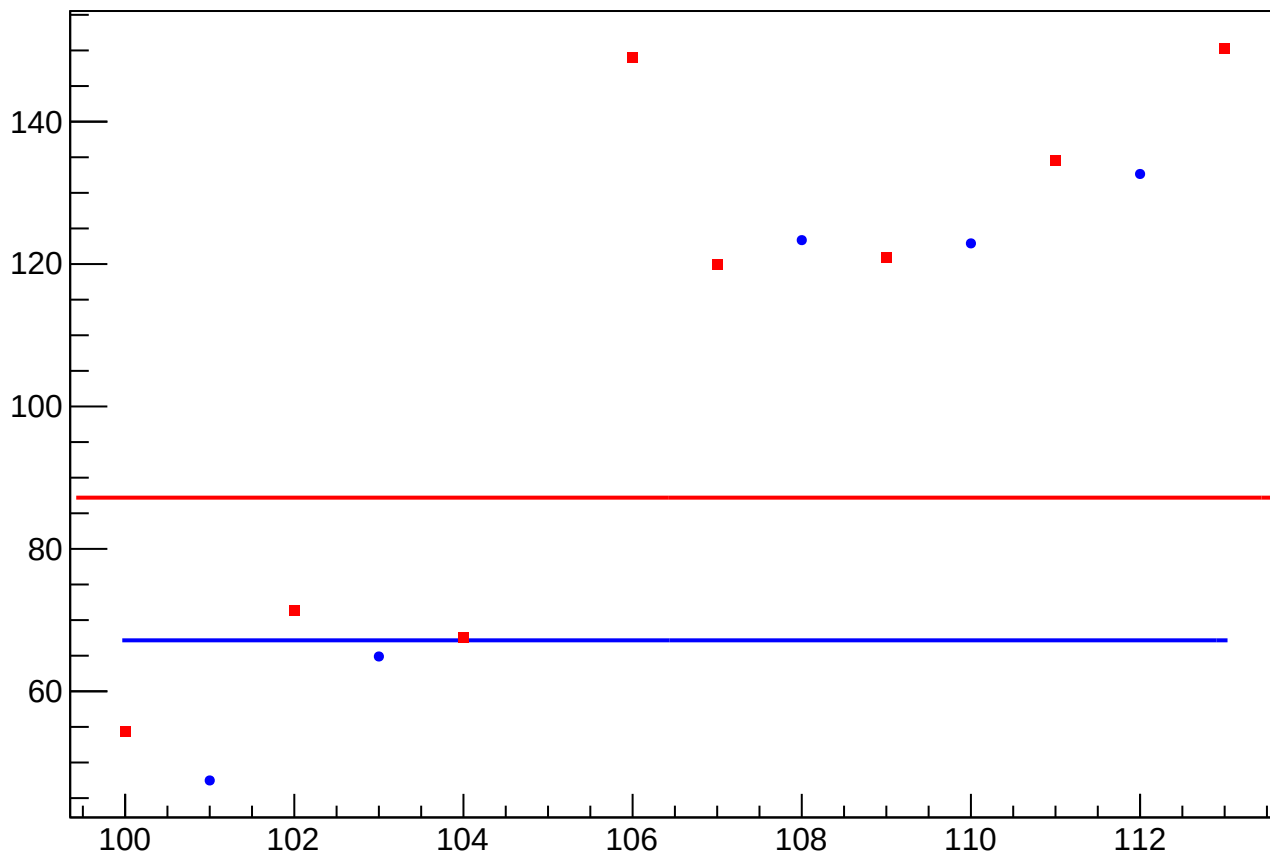
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.035+/-35.485  $\chi^2/\text{NDF}$ : 10.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 67.158+/-0.034  $\chi^2/\text{NDF}$ : 701641.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 87.196+/-0.037  $\chi^2/\text{NDF}$ : 675299.3/7

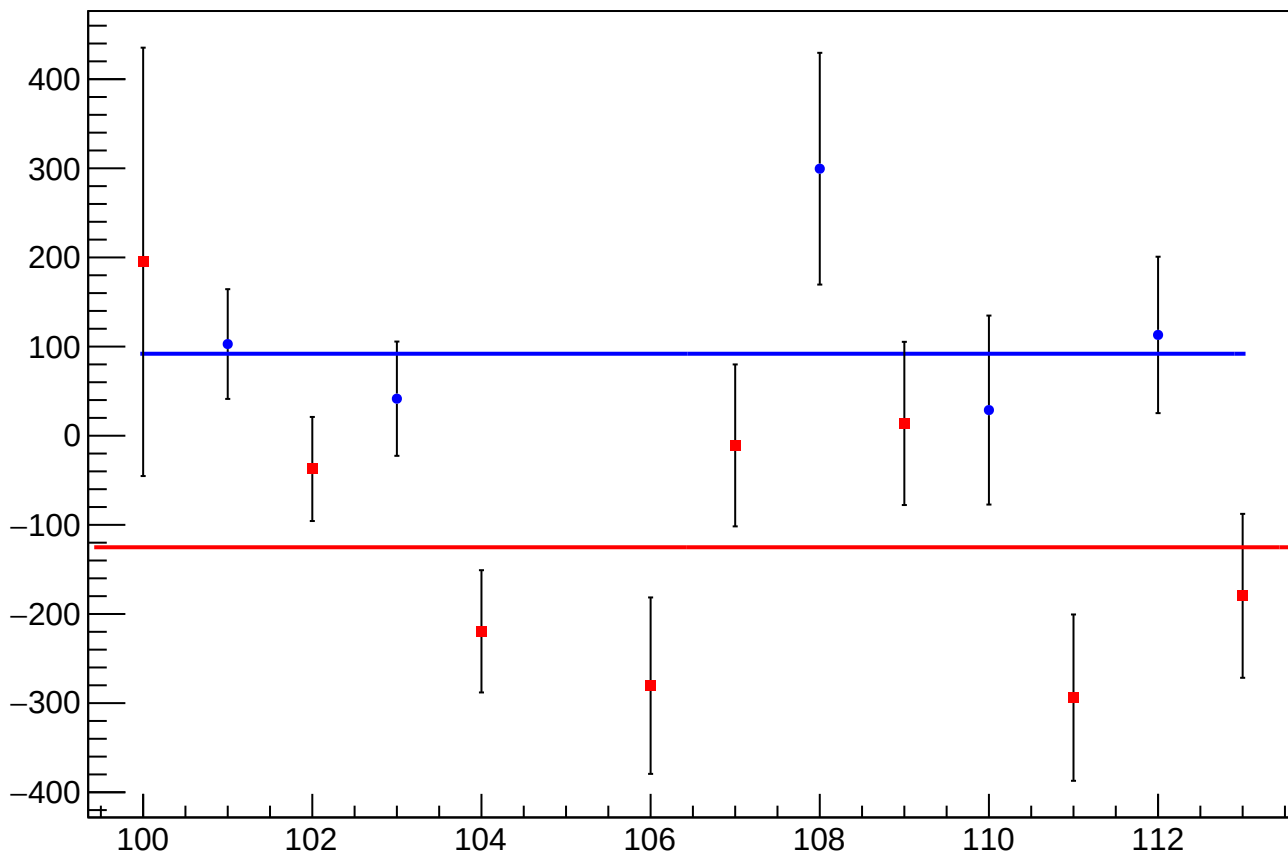
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 76.388+/-0.025  $\chi^2/\text{NDF}$ : 1535386.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 91.967 $\pm$ 35.685  $\chi^2$ /NDF: 3.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -125.138 $\pm$ 30.164  $\chi^2$ /NDF: 15.9/7

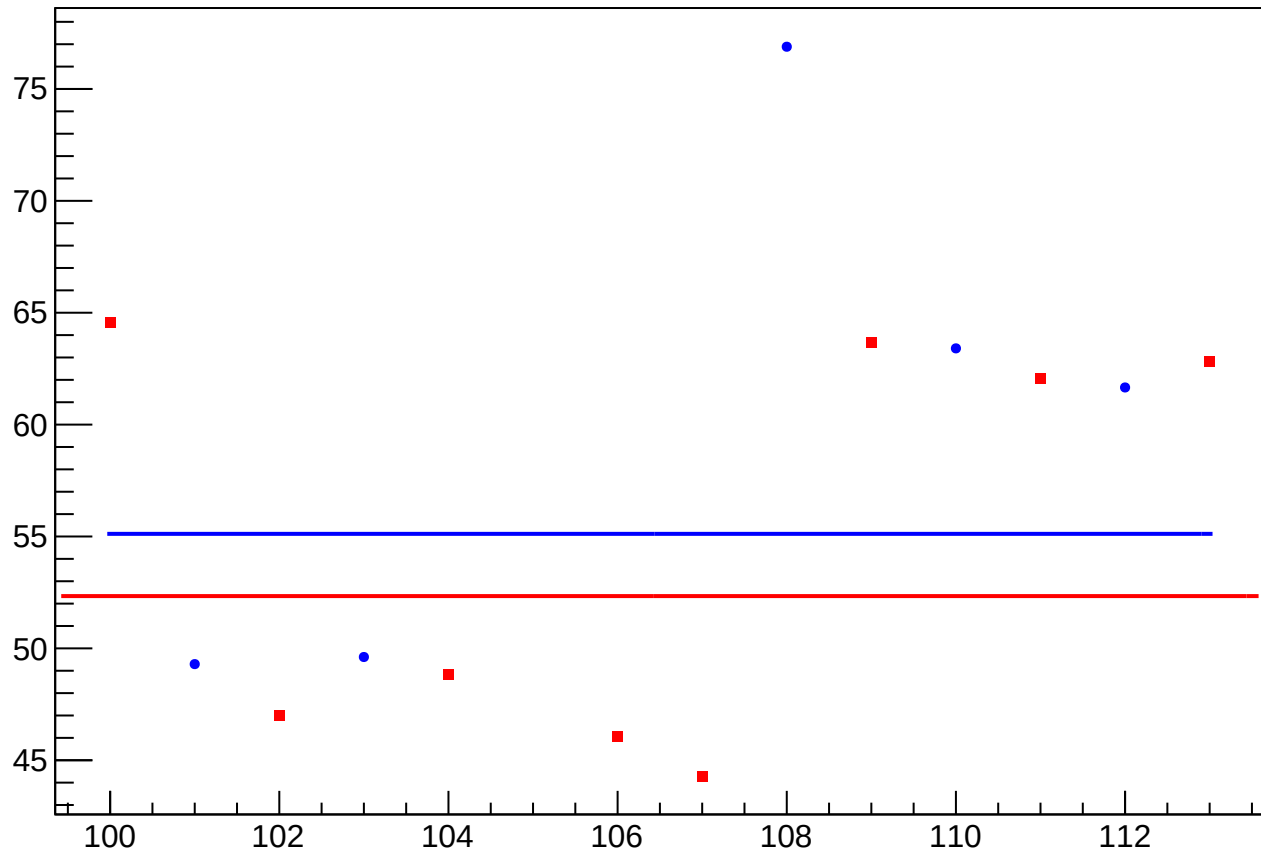
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -34.661 $\pm$ 23.037  $\chi^2$ /NDF: 41.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 55.118+/-0.025  $\chi^2/\text{NDF}$ : 112062.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.336+/-0.021  $\chi^2/\text{NDF}$ : 129173.7/7

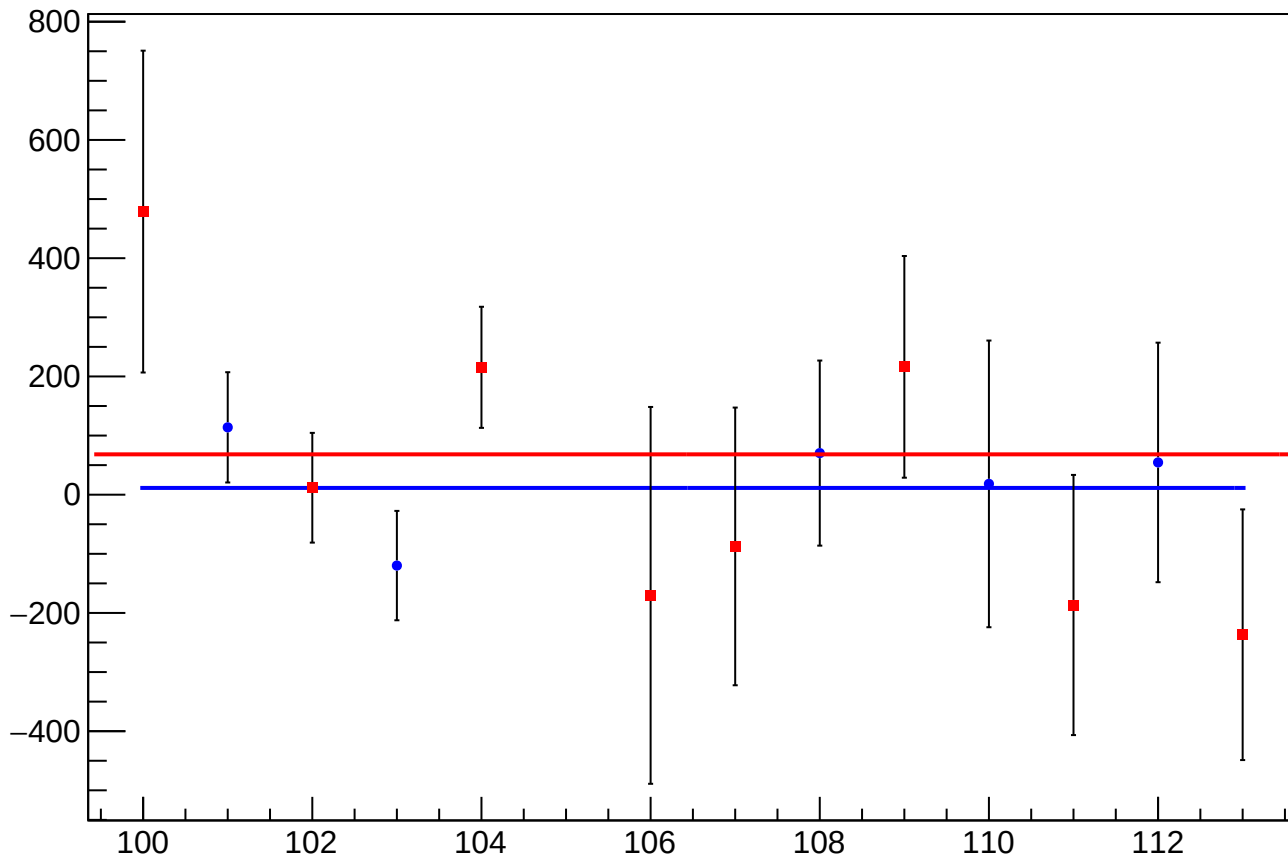
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.496+/-0.016  $\chi^2/\text{NDF}$ : 248323.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_dit\_correction\_mean vs Slug



Right In: 11.446+/-56.426  $\chi^2/\text{NDF}$ : 3.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 68.249+/-55.529  $\chi^2/\text{NDF}$ : 9.7/7

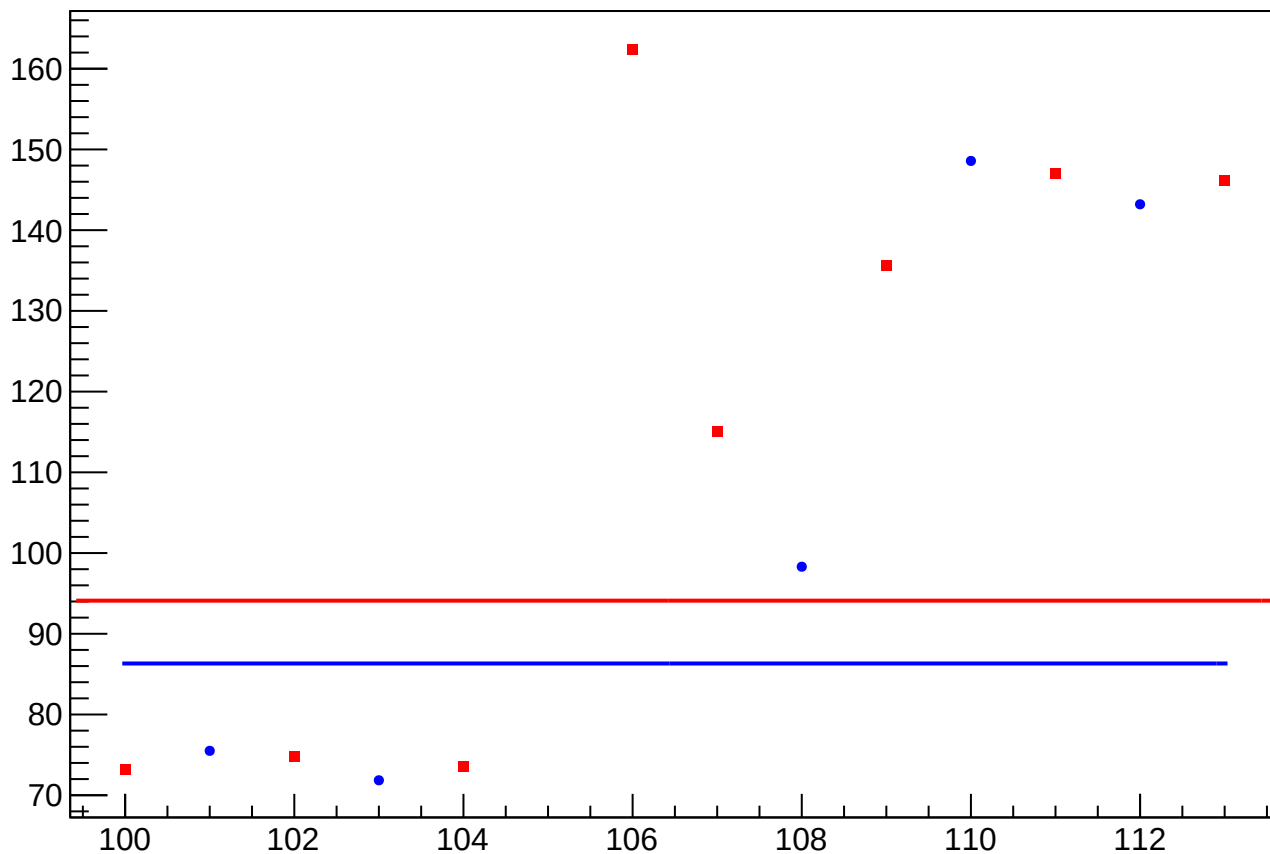
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.302+/-39.578  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_dit\_correction\_rms vs Slug



Right In: 86.319+/-0.040  $\chi^2/\text{NDF}$ : 377215.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.104+/-0.039  $\chi^2/\text{NDF}$ : 620898.0/7

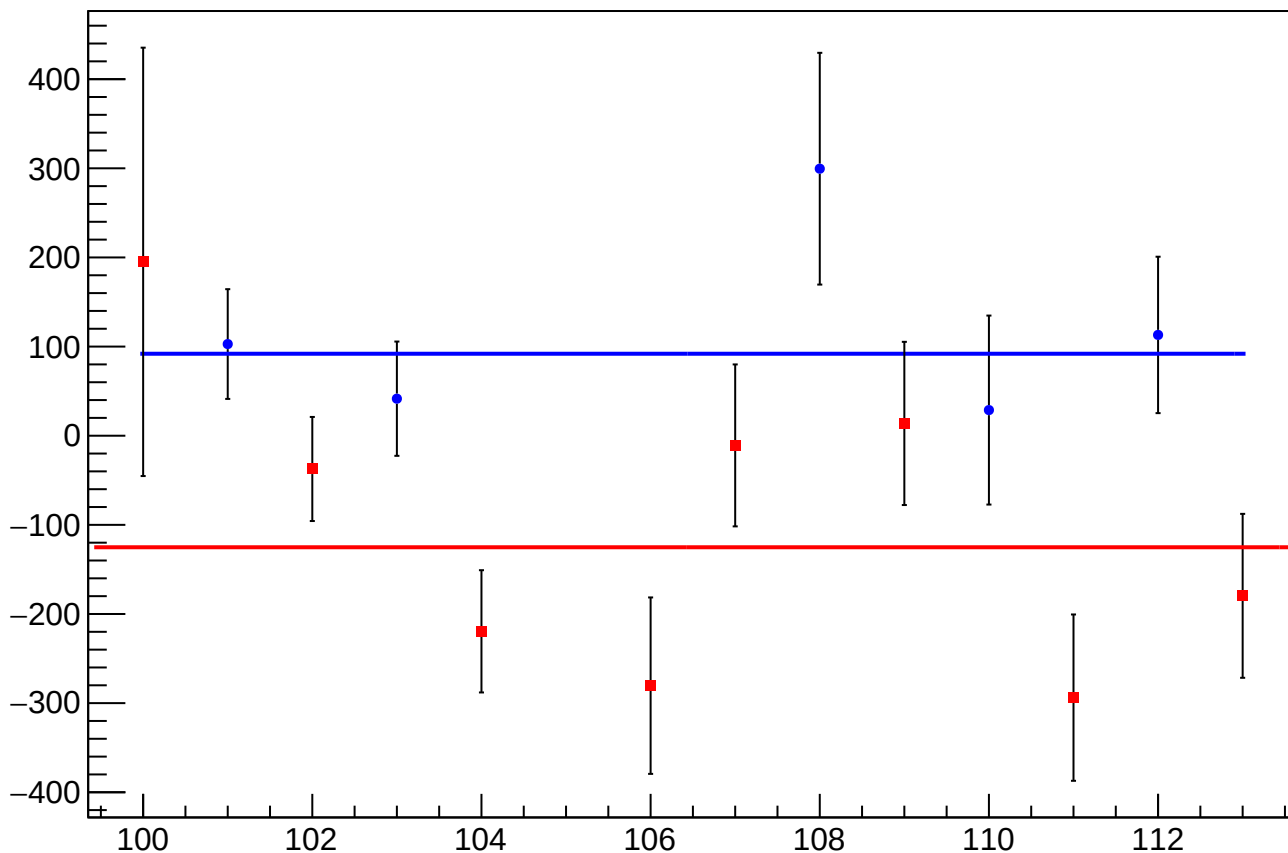
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 90.274+/-0.028  $\chi^2/\text{NDF}$ : 1017455.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 91.966 $\pm$ 35.685  $\chi^2$ /NDF: 3.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -125.138 $\pm$ 30.164  $\chi^2$ /NDF: 15.9/7

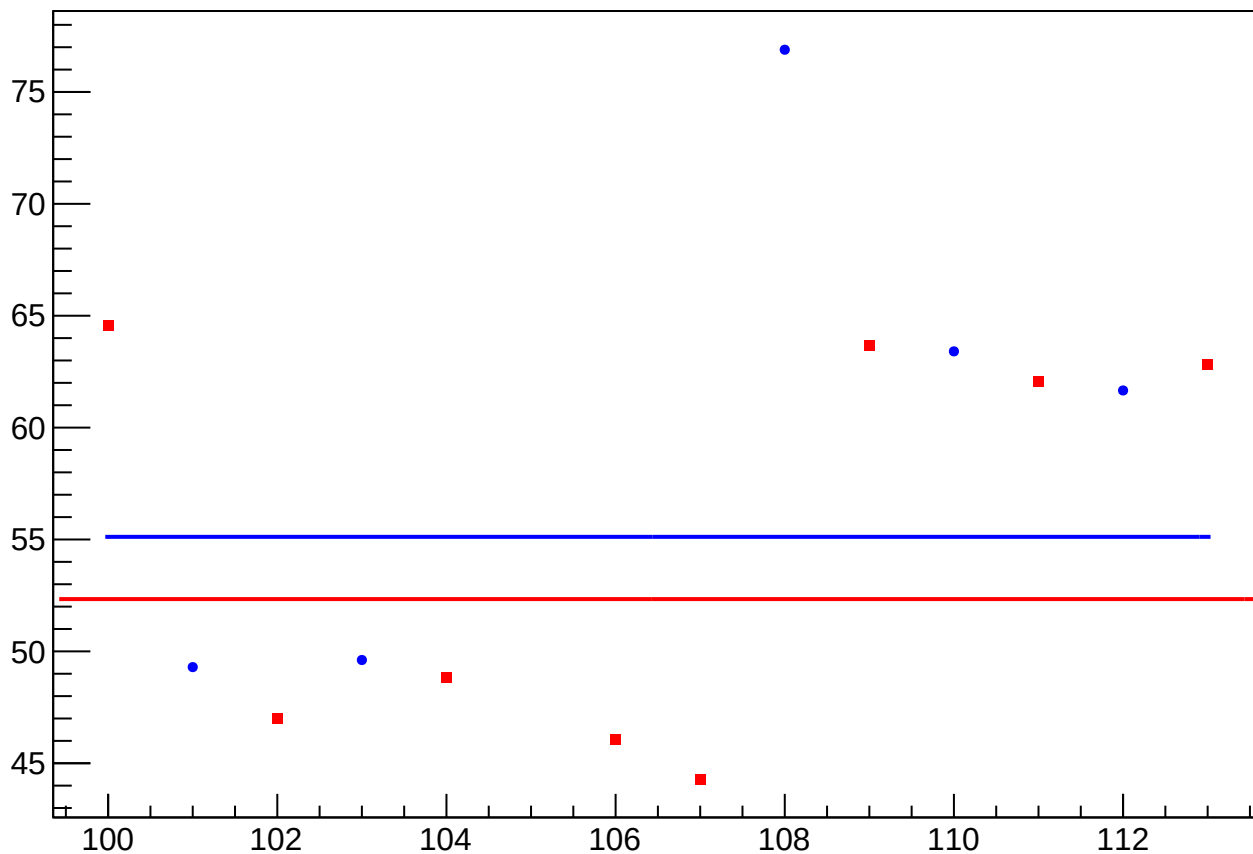
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -34.661 $\pm$ 23.037  $\chi^2$ /NDF: 41.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 55.118+/-0.025  $\chi^2/\text{NDF}$ : 112062.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.336+/-0.021  $\chi^2/\text{NDF}$ : 129173.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

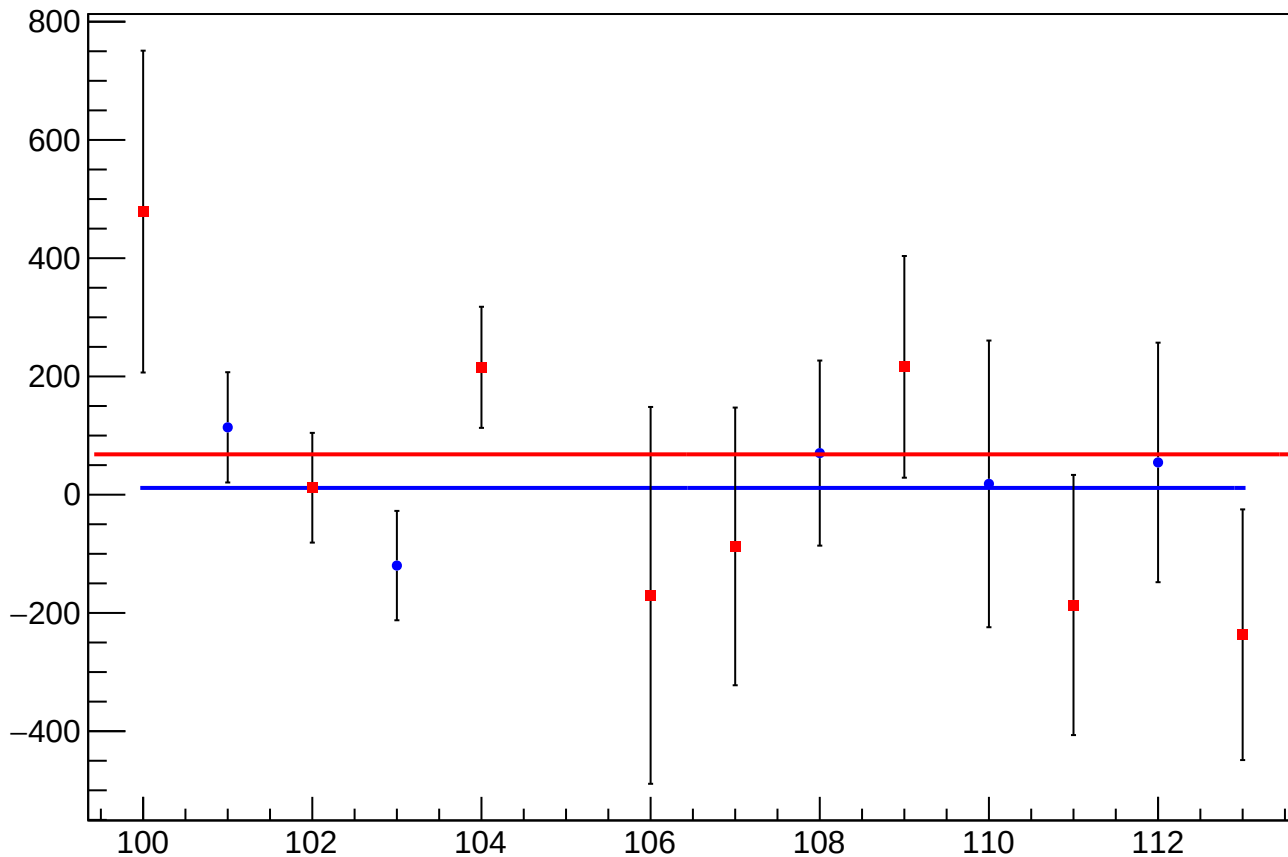
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.496+/-0.016  $\chi^2/\text{NDF}$ : 248323.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 11.445 $\pm$ 56.425  $\chi^2/\text{NDF}$ : 3.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 68.249 $\pm$ 55.529  $\chi^2/\text{NDF}$ : 9.7/7

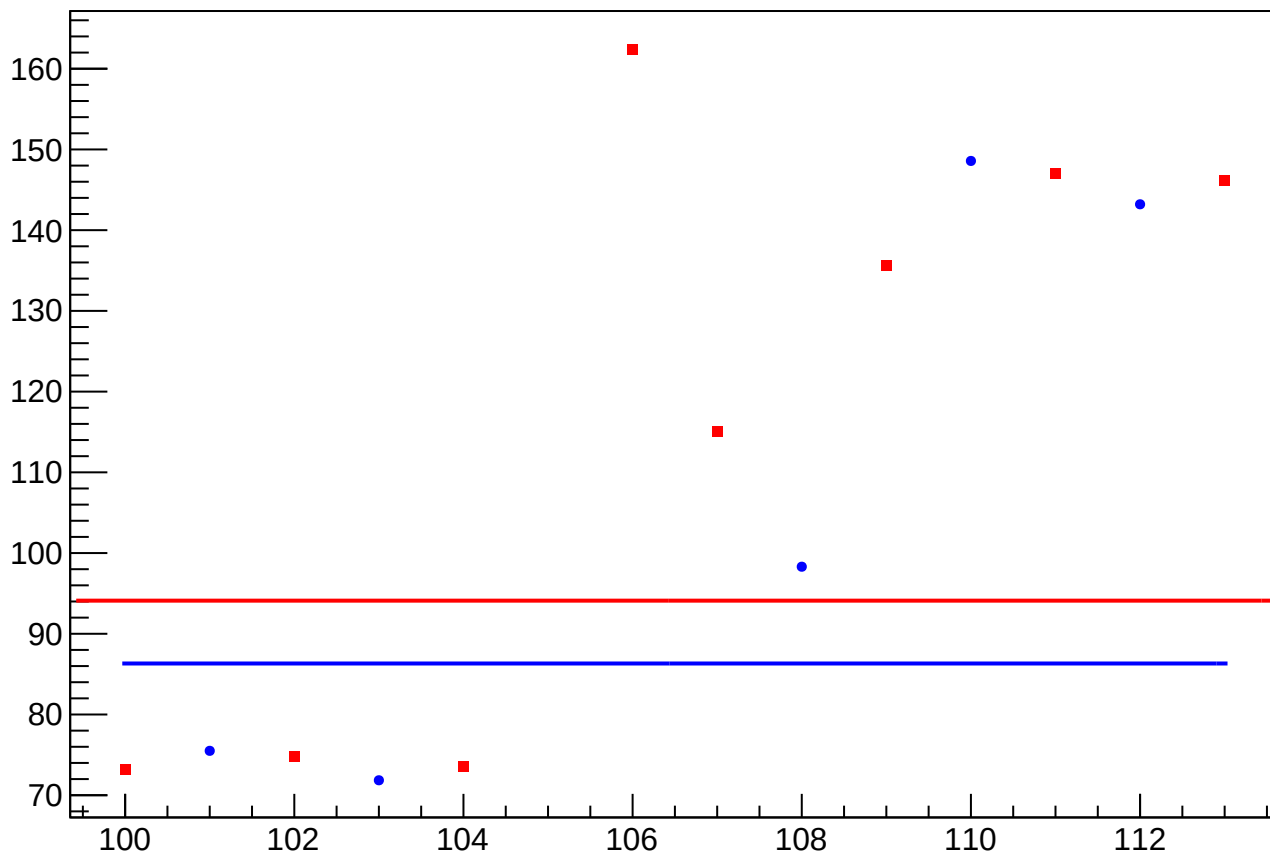
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.302 $\pm$ 39.578  $\chi^2/\text{NDF}$ : 13.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 86.319+/-0.040  $\chi^2/\text{NDF}$ : 377216.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.104+/-0.039  $\chi^2/\text{NDF}$ : 620903.8/7

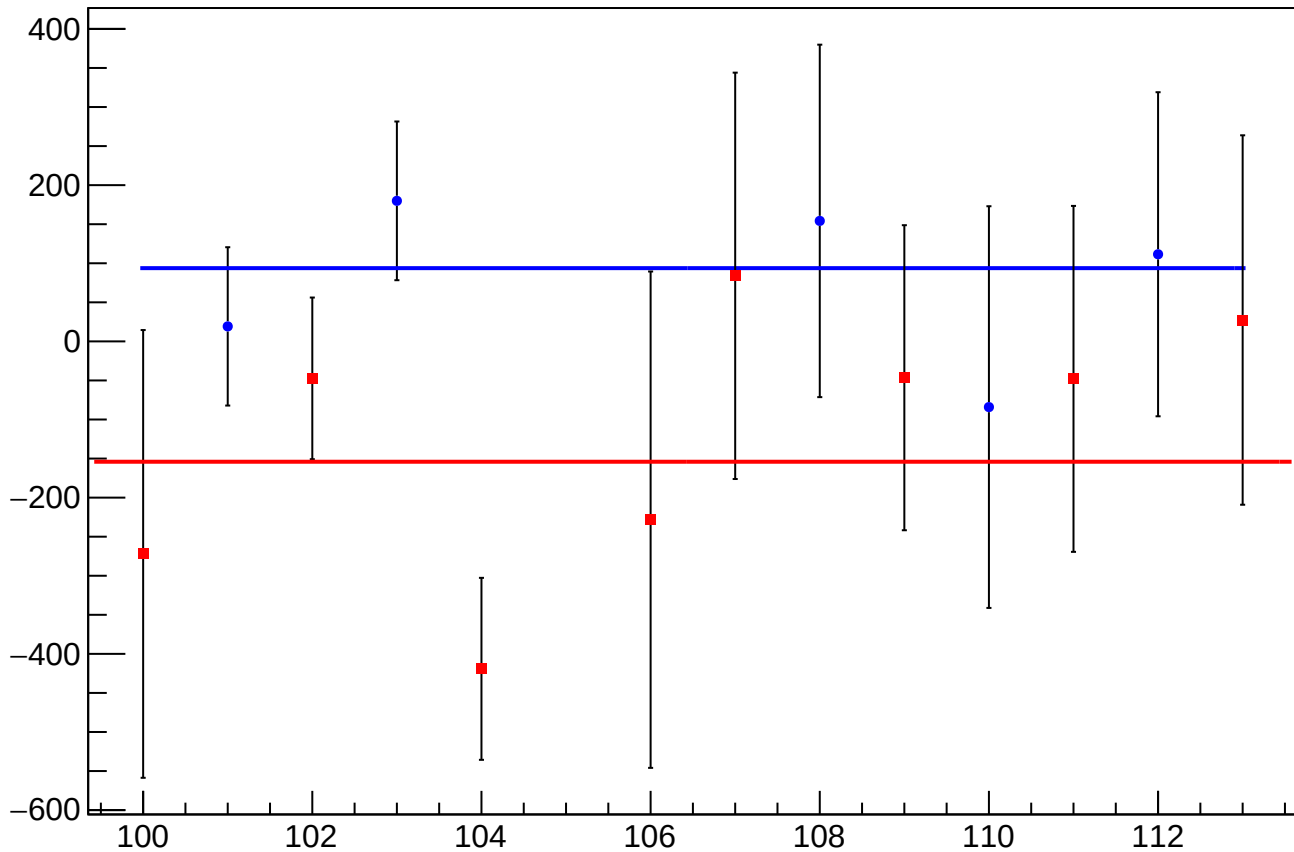
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 90.274+/-0.028  $\chi^2/\text{NDF}$ : 1017462.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_mean vs Slug



Right In: 93.756+/-62.957  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -154.054+/-61.029  $\chi^2/\text{NDF}$ : 8.4/7

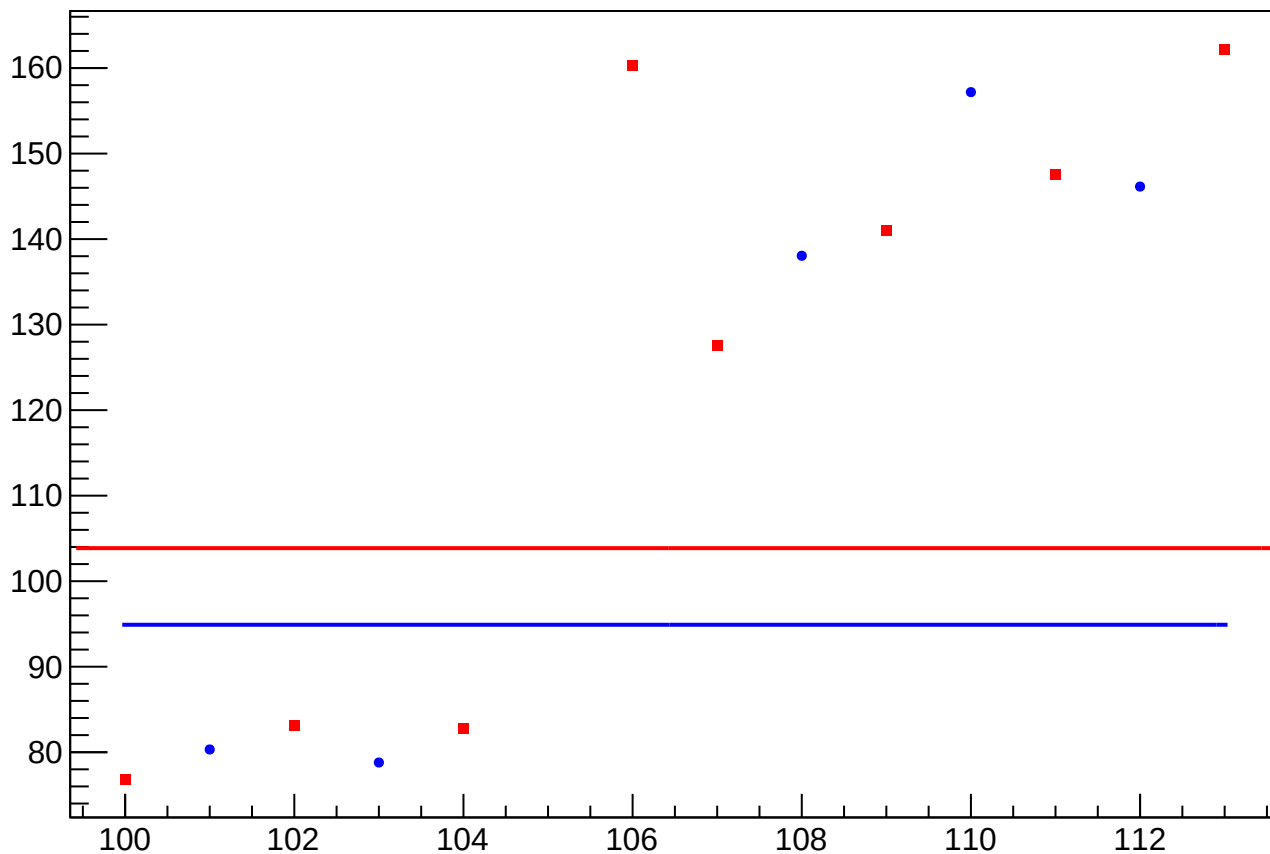
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -34.002+/-43.820  $\chi^2/\text{NDF}$ : 18.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_rms vs Slug



Right In: 94.905+/-0.045  $\chi^2/\text{NDF}$ : 404278.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 103.863+/-0.043  $\chi^2/\text{NDF}$ : 515182.2/7

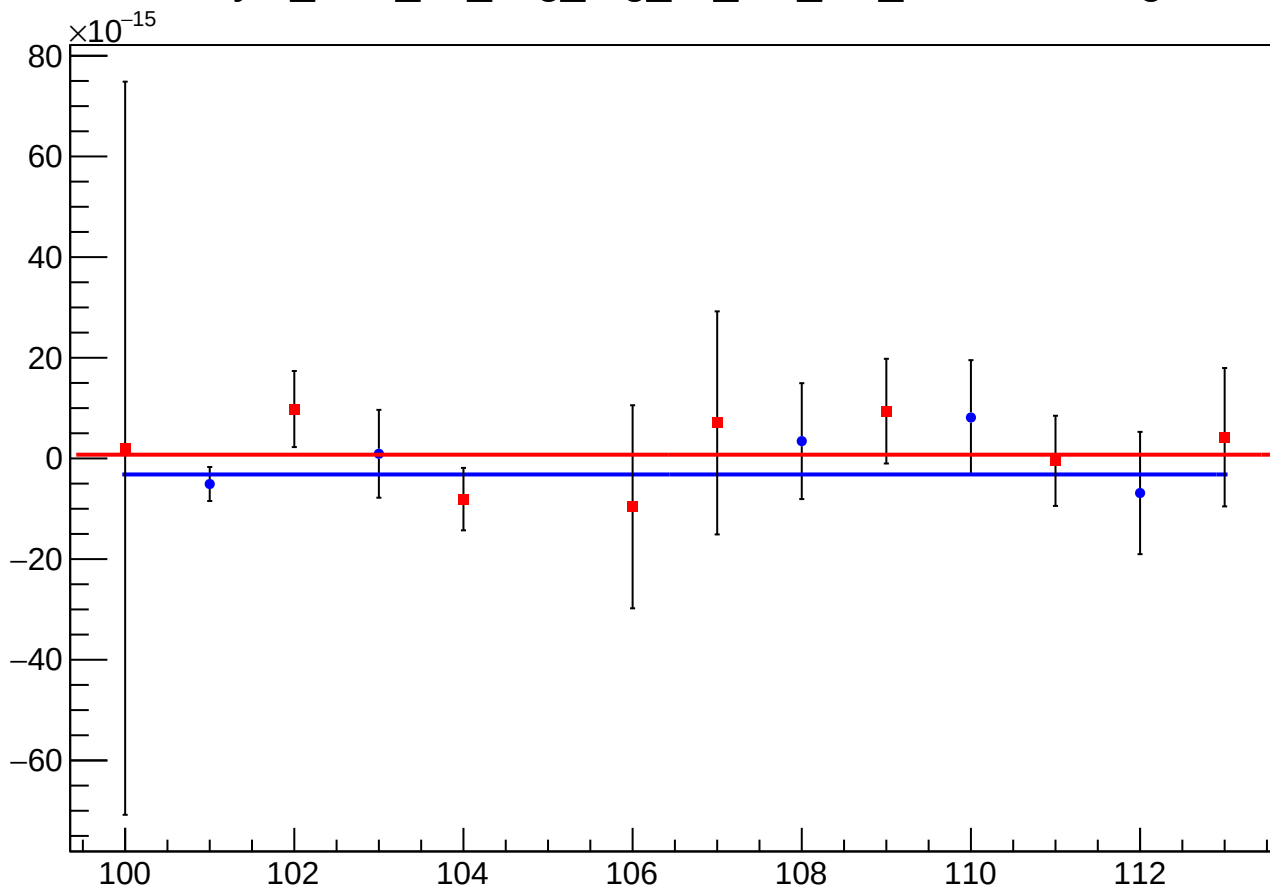
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 99.523+/-0.031  $\chi^2/\text{NDF}$ : 940336.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.6/7

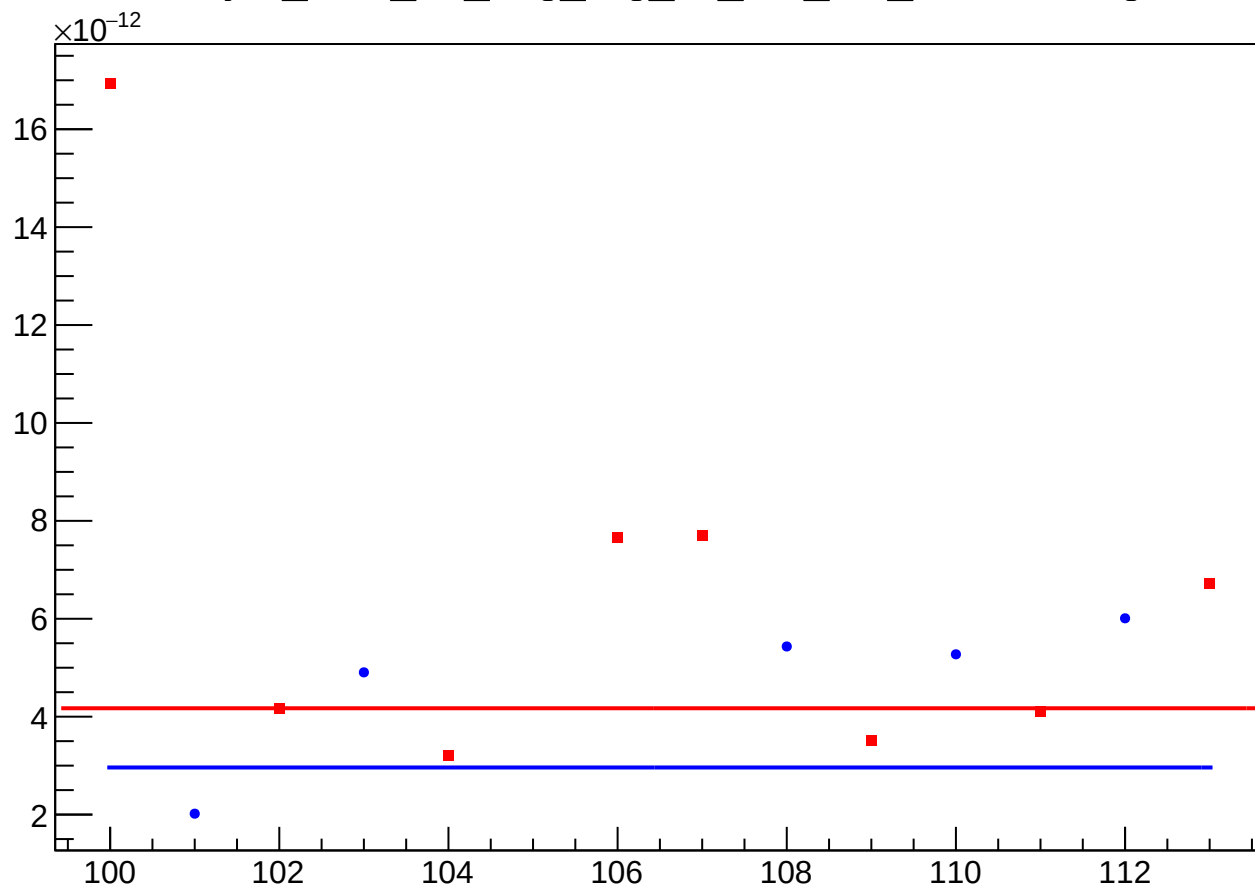
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 555485.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 296205.6/7

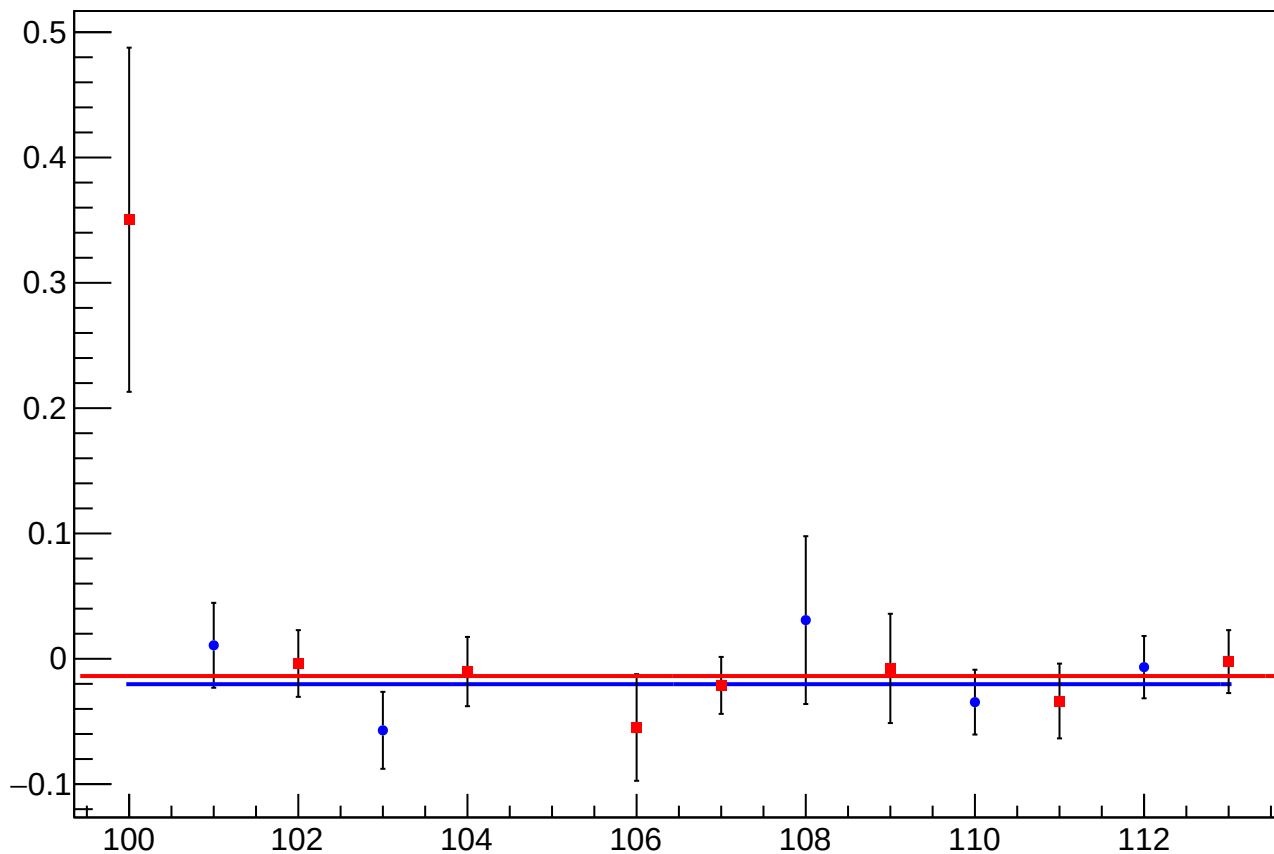
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 988109.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.020 $\pm$ 0.014  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.014 $\pm$ 0.011  $\chi^2$ /NDF: 8.9/7

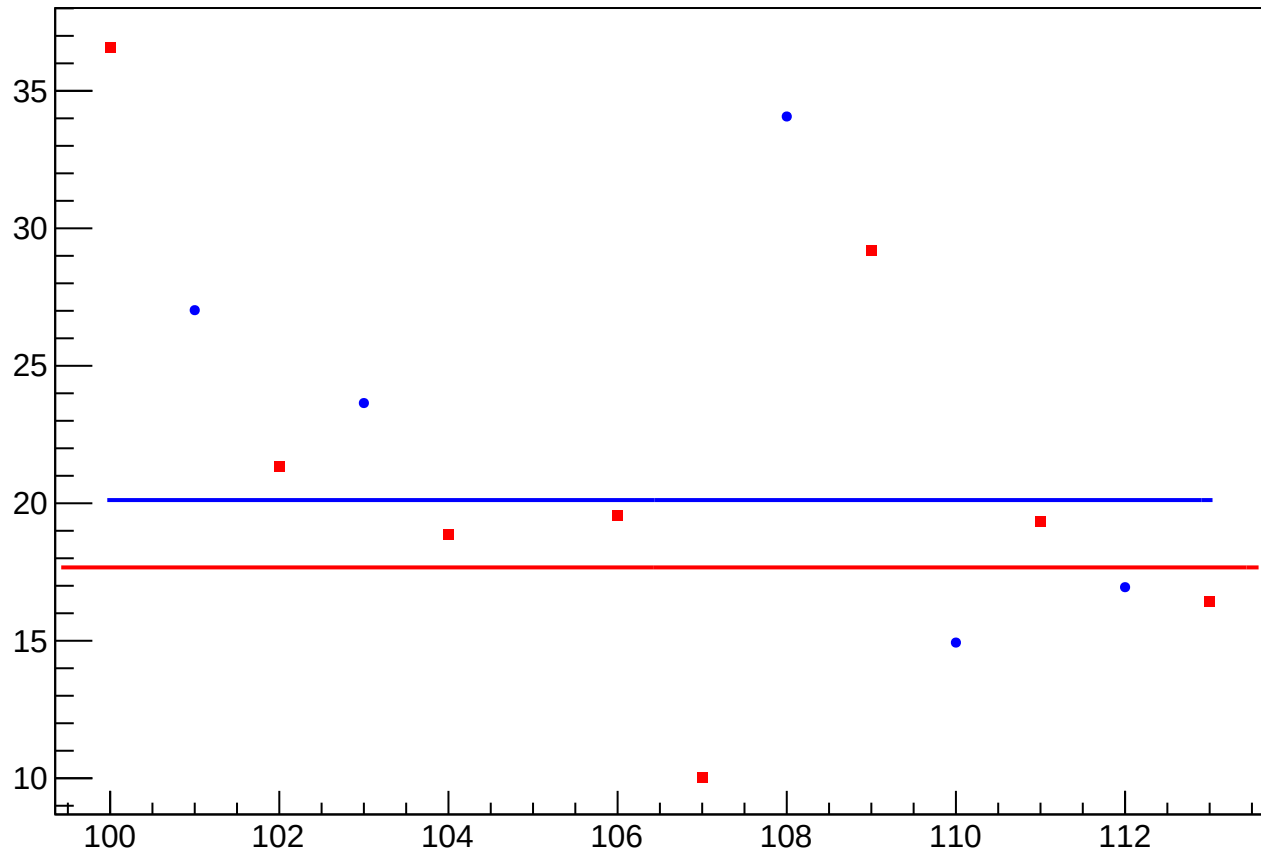
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.016 $\pm$ 0.009  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 20.117+/-0.010  $\chi^2/\text{NDF}$ : 309098.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.668+/-0.008  $\chi^2/\text{NDF}$ : 459988.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

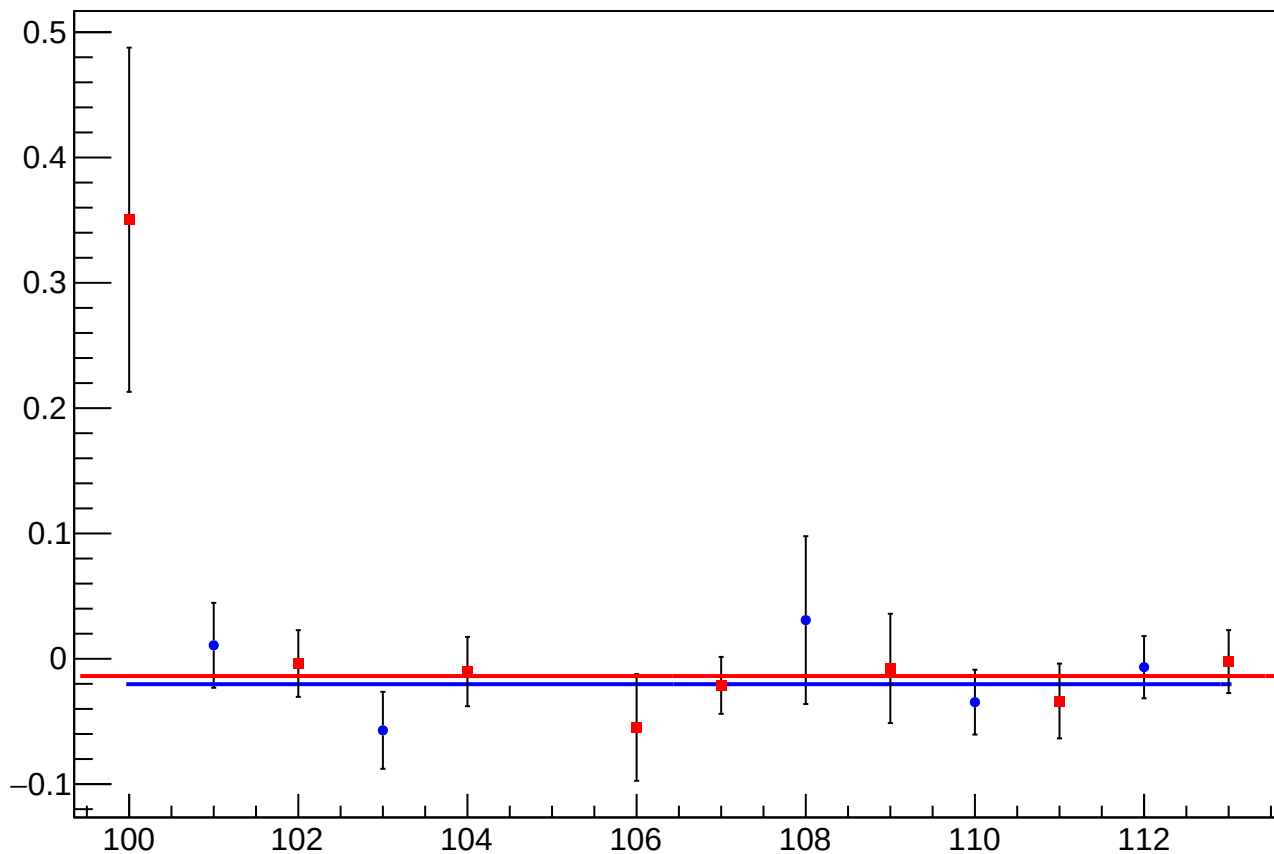
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.605+/-0.006  $\chi^2/\text{NDF}$ : 808086.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.020 $\pm$ 0.014  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.014 $\pm$ 0.011  $\chi^2$ /NDF: 8.9/7

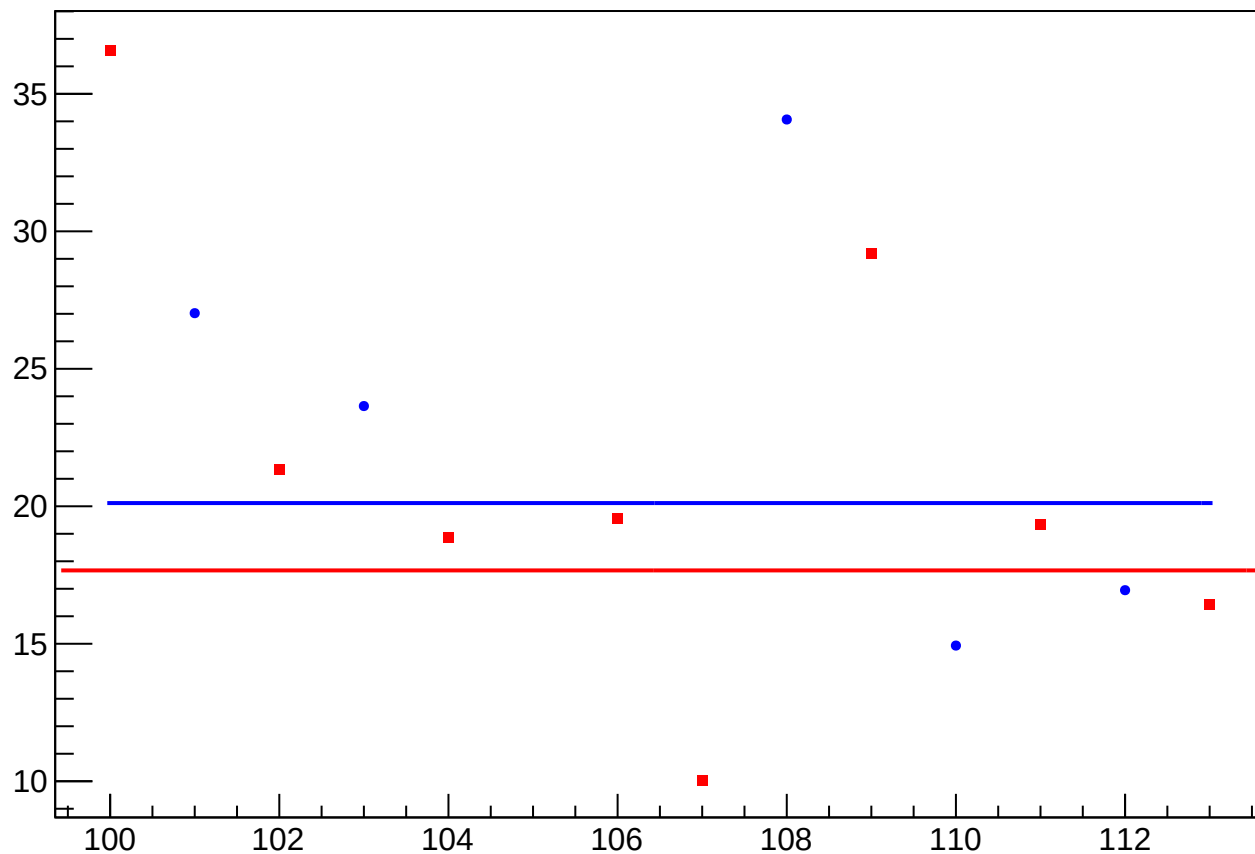
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.016 $\pm$ 0.009  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 20.117 $\pm$ 0.010  $\chi^2$ /NDF: 309098.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.668 $\pm$ 0.008  $\chi^2$ /NDF: 459988.5/7

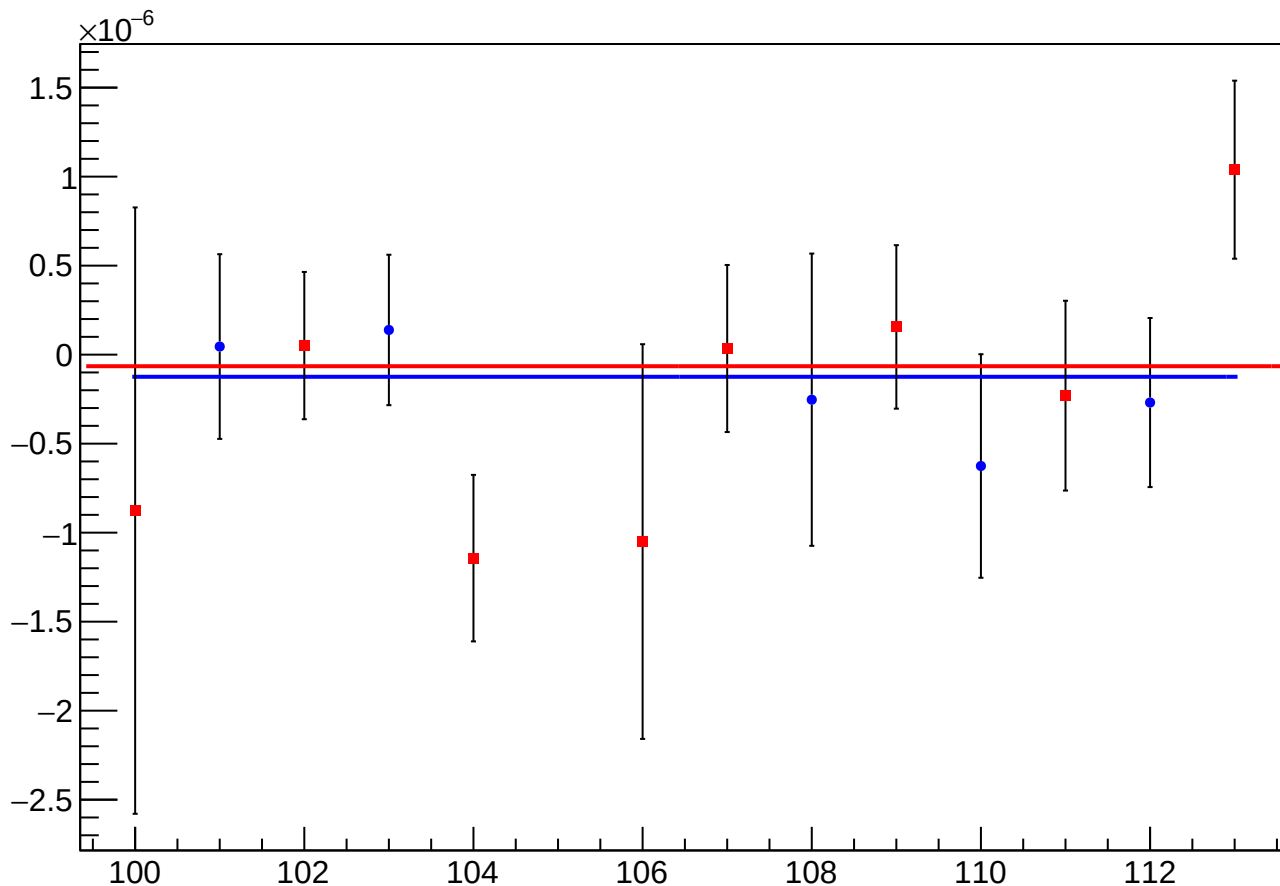
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.605 $\pm$ 0.006  $\chi^2$ /NDF: 808086.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.7/7

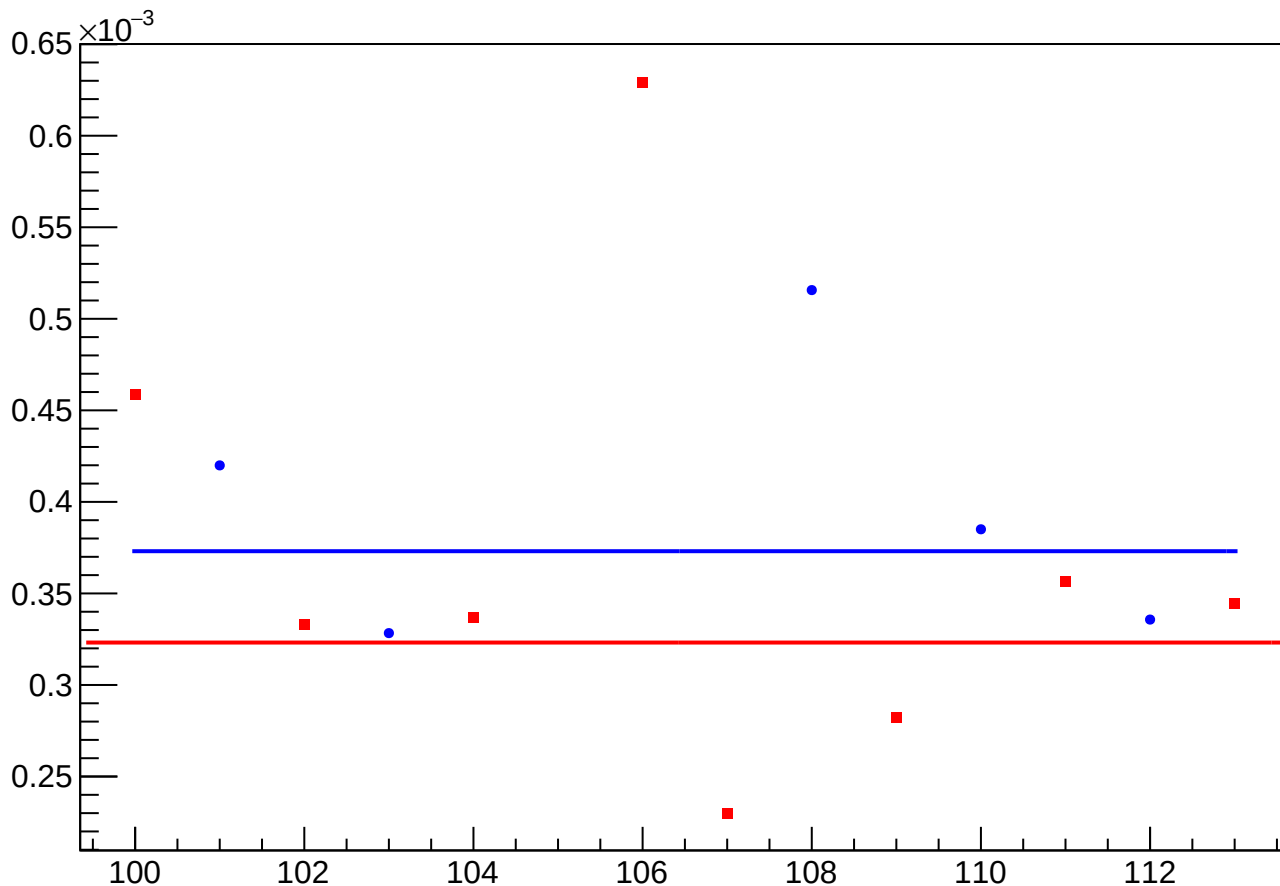
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 112201.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 274112.8/7

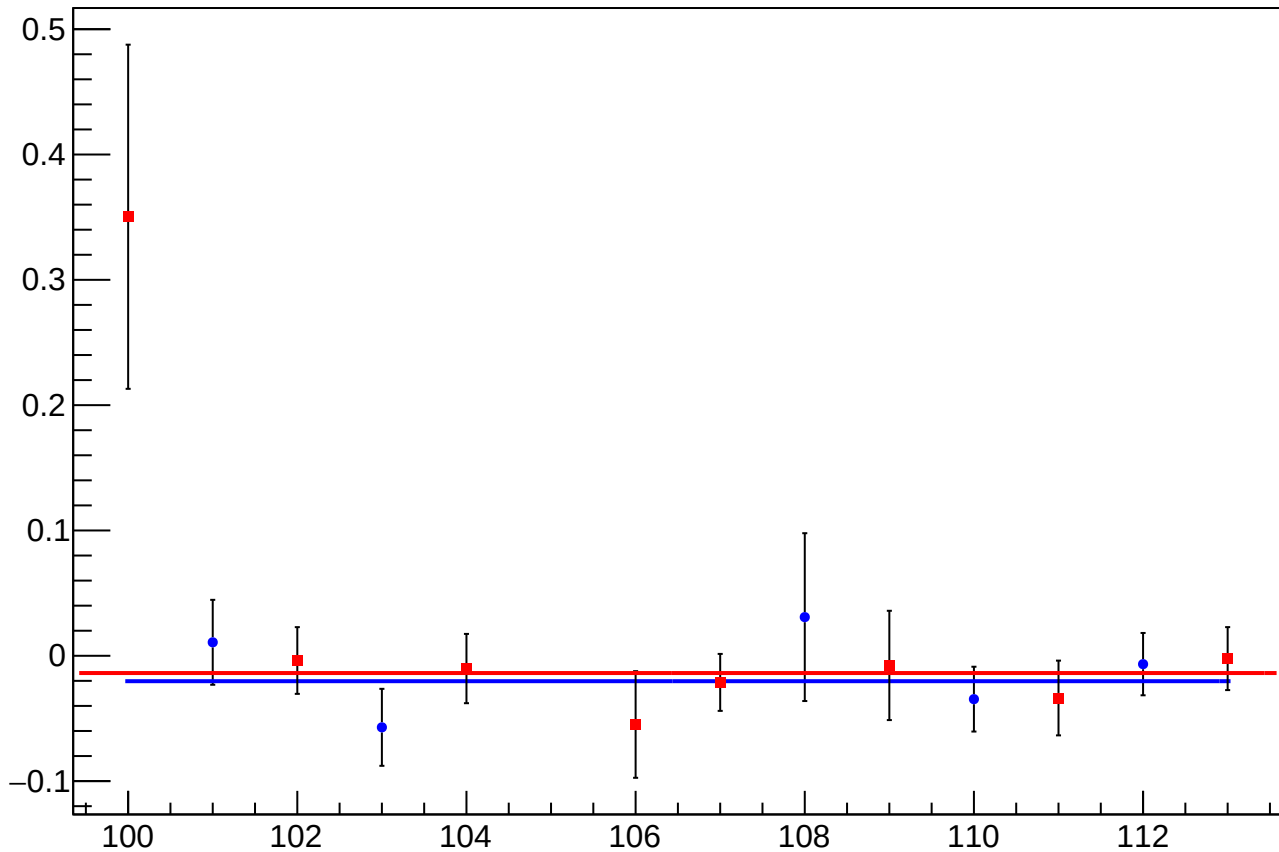
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 440712.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.020 $\pm$ 0.014  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.014 $\pm$ 0.011  $\chi^2$ /NDF: 8.9/7

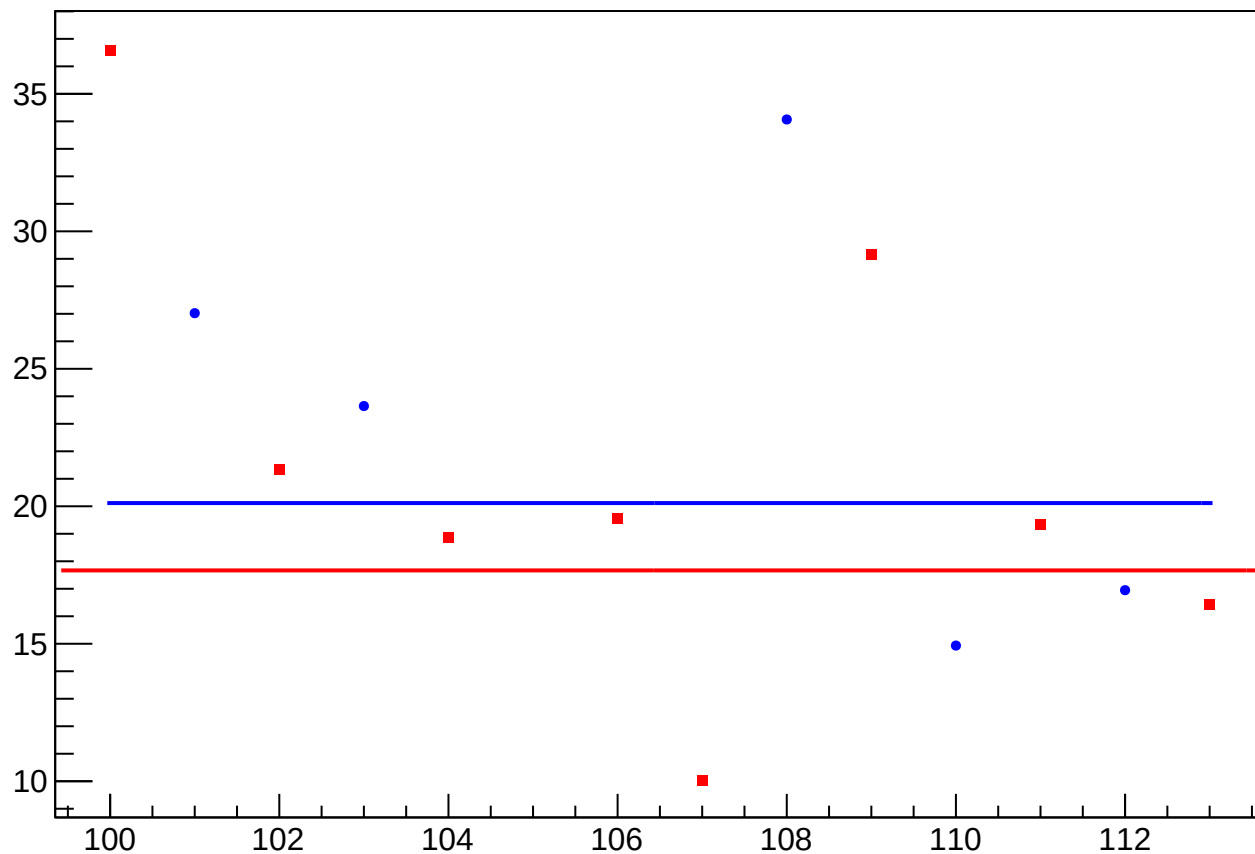
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.016 $\pm$ 0.009  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 20.117 $\pm$ 0.010  $\chi^2$ /NDF: 309102.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.668 $\pm$ 0.008  $\chi^2$ /NDF: 459997.9/7

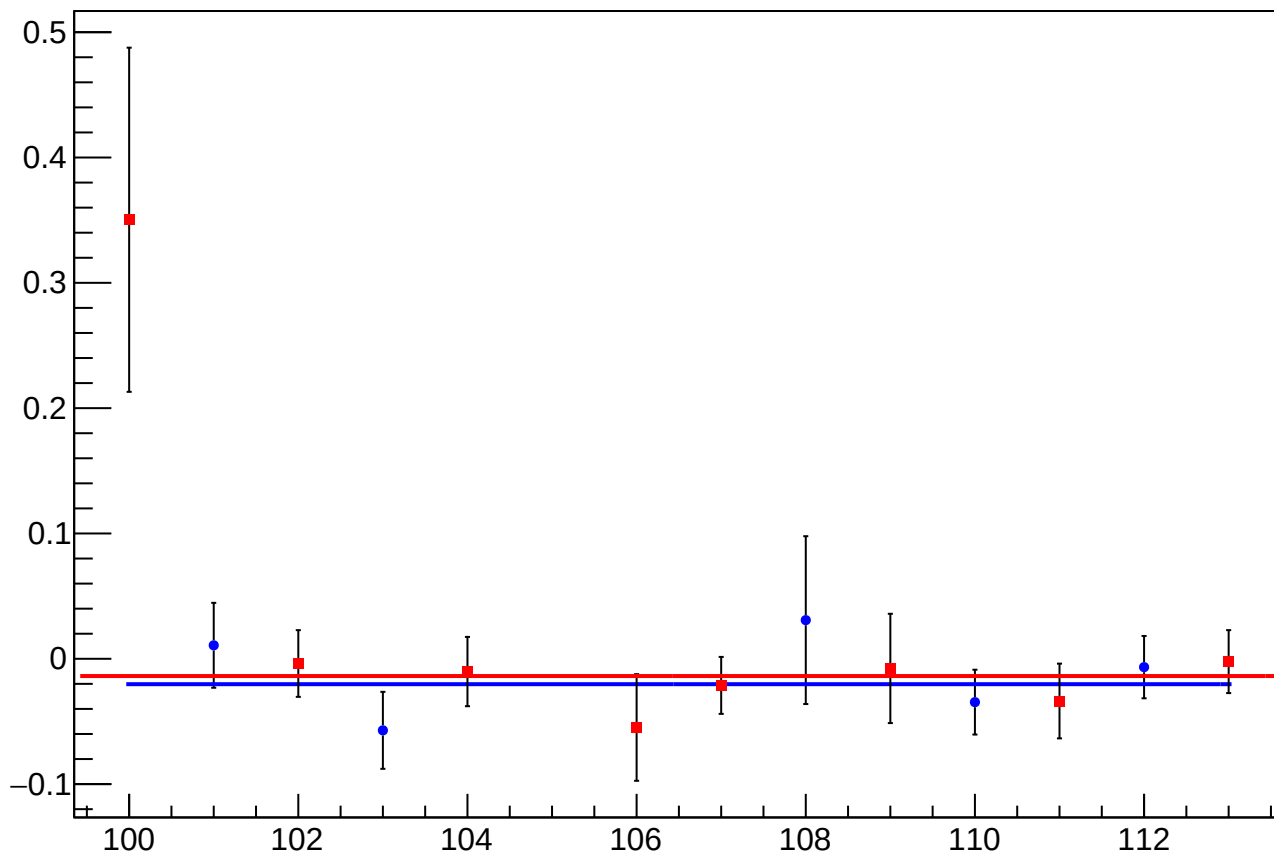
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.605 $\pm$ 0.006  $\chi^2$ /NDF: 808102.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.020+/-0.014  $\chi^2/\text{NDF}$ : 3.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.014+/-0.011  $\chi^2/\text{NDF}$ : 8.9/7

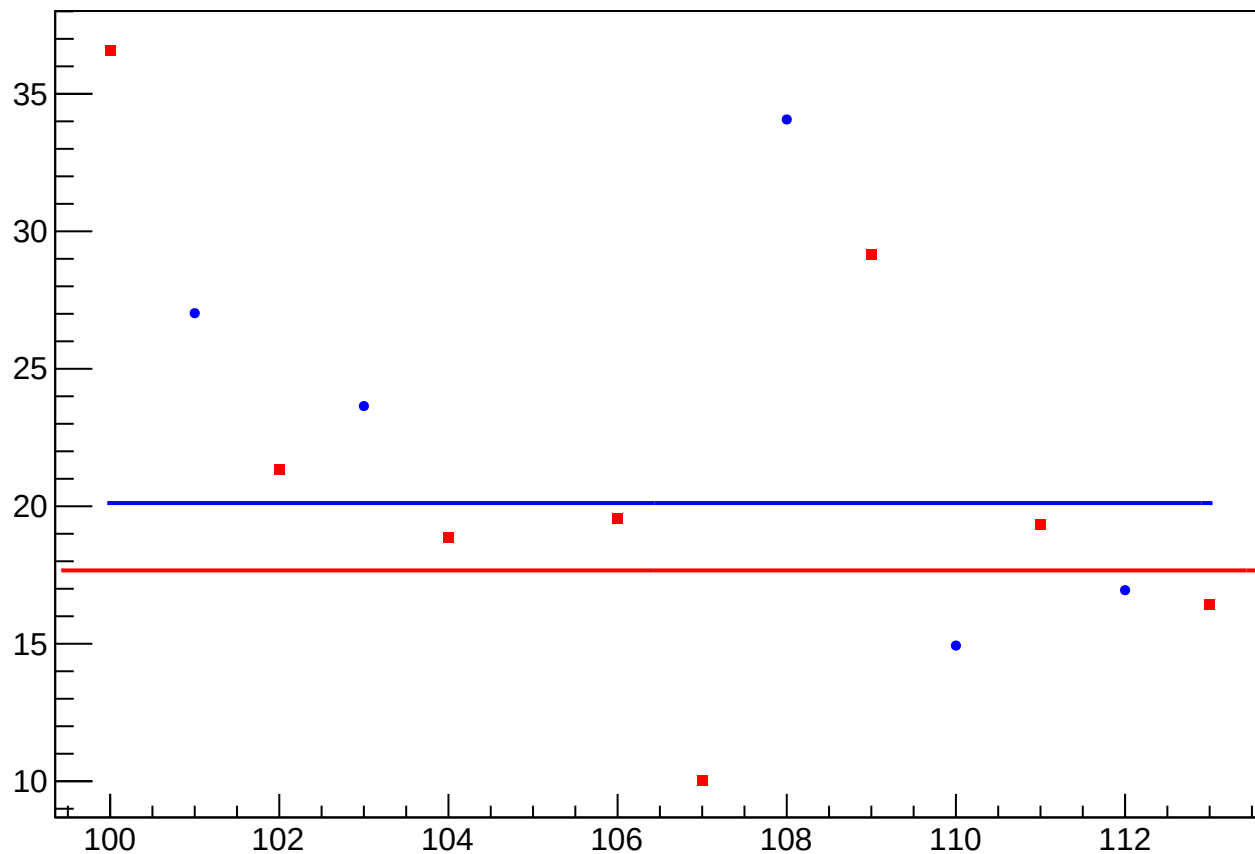
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.016+/-0.009  $\chi^2/\text{NDF}$ : 12.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 20.117 $\pm$ 0.010  $\chi^2$ /NDF: 309102.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.668 $\pm$ 0.008  $\chi^2$ /NDF: 459997.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

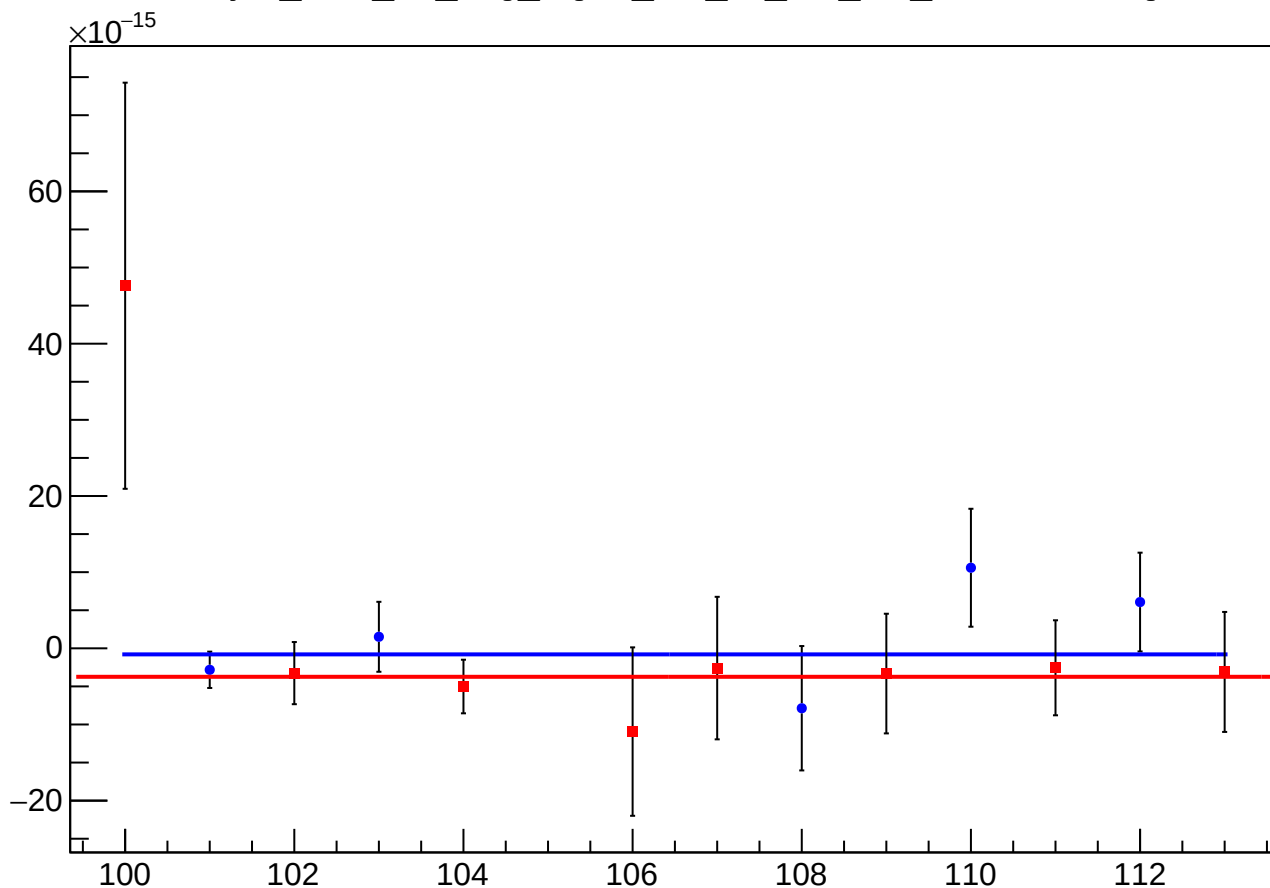
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.605 $\pm$ 0.006  $\chi^2$ /NDF: 808102.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 5.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 4.3/7

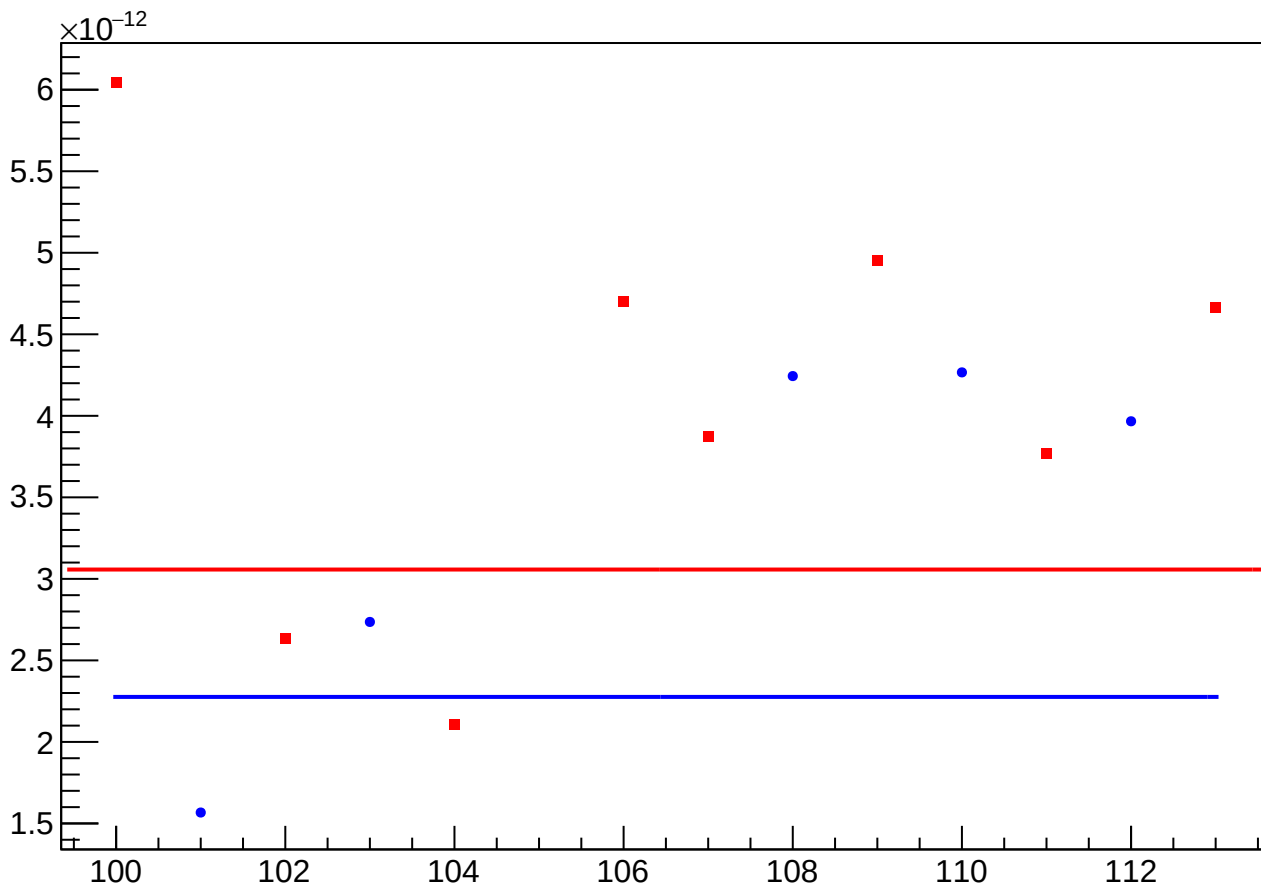
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 10.4/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 581132.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 476211.3/7

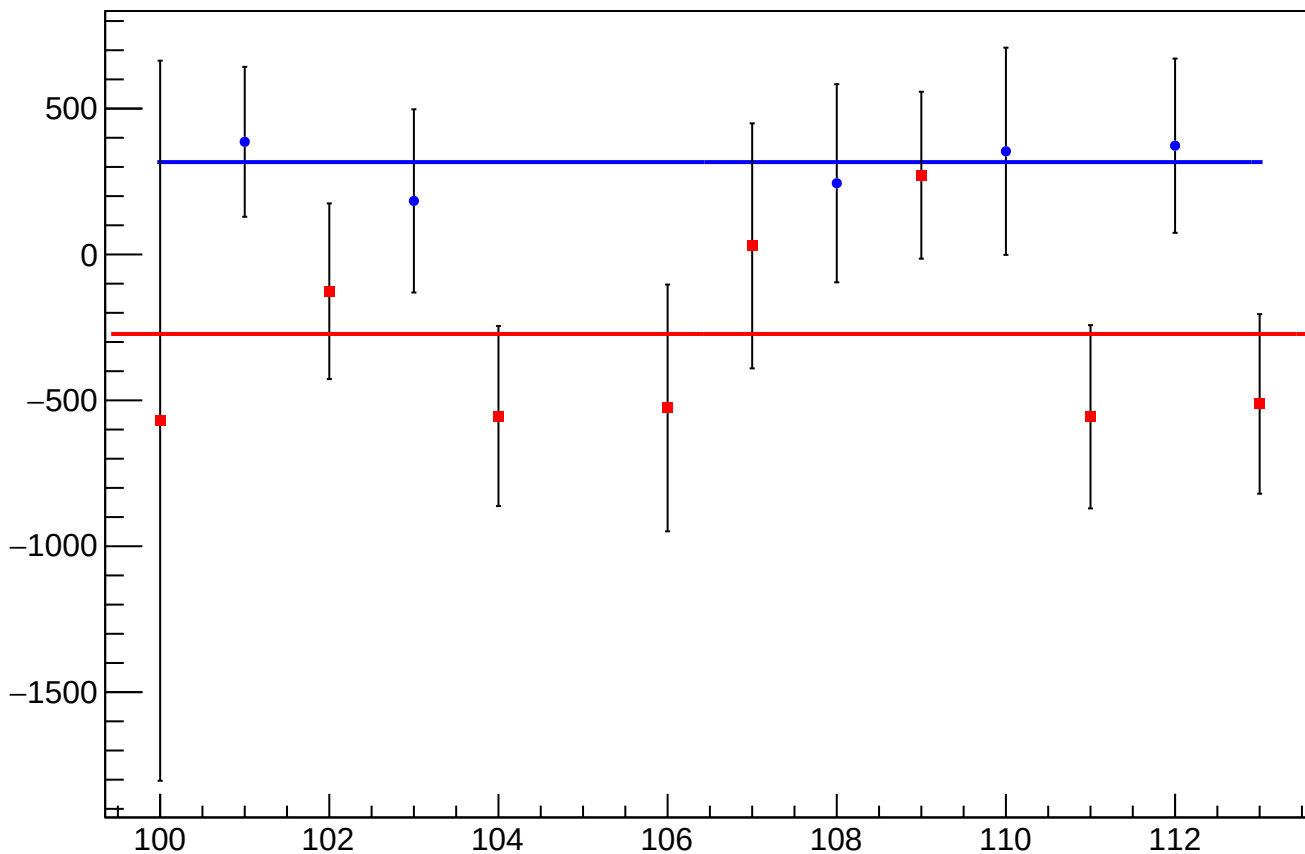
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1207356.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 316.593 $\pm$ 137.225  $\chi^2$ /NDF: 0.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -272.450 $\pm$ 122.740  $\chi^2$ /NDF: 7.0/7

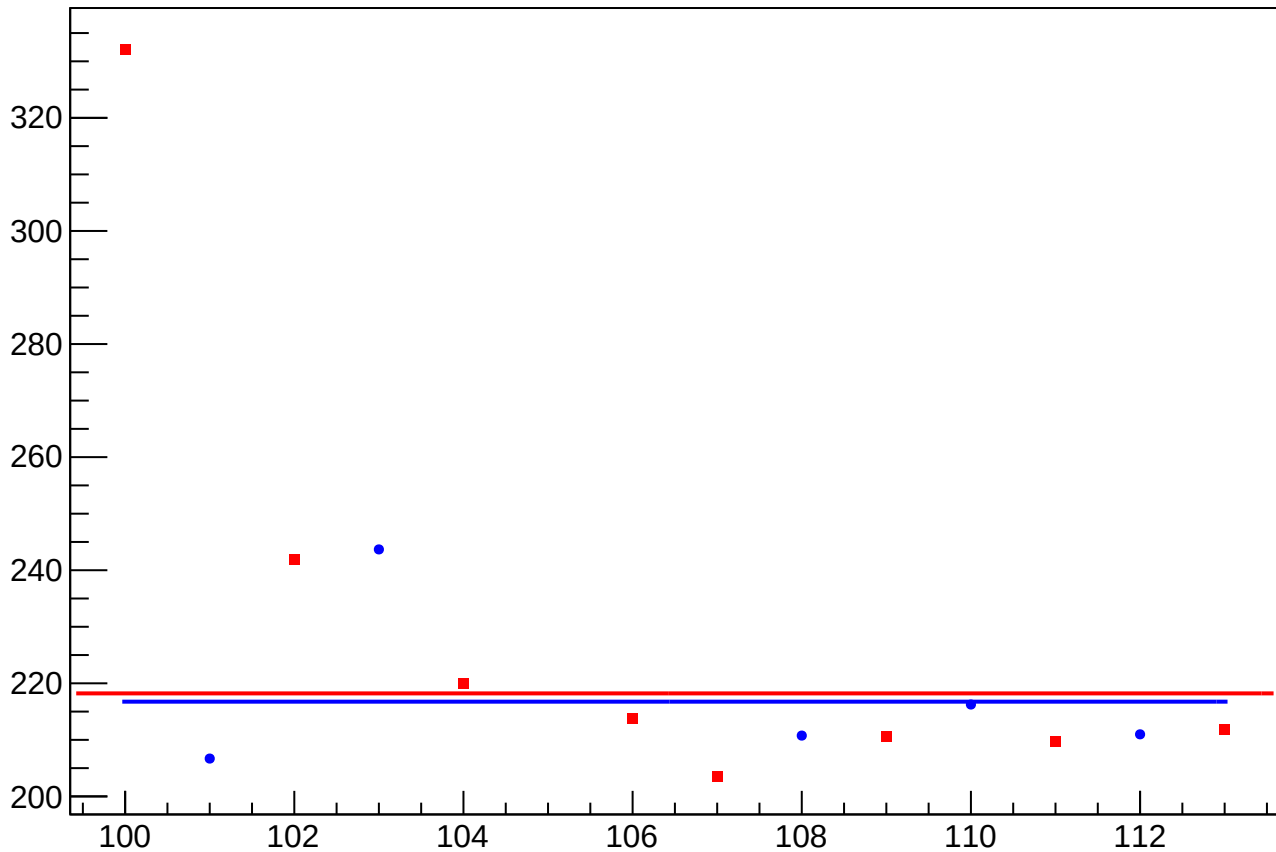
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -10.647 $\pm$ 91.484  $\chi^2$ /NDF: 17.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 216.755 $\pm$ 0.097  $\chi^2$ /NDF: 19153.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 218.219 $\pm$ 0.087  $\chi^2$ /NDF: 35776.3/7

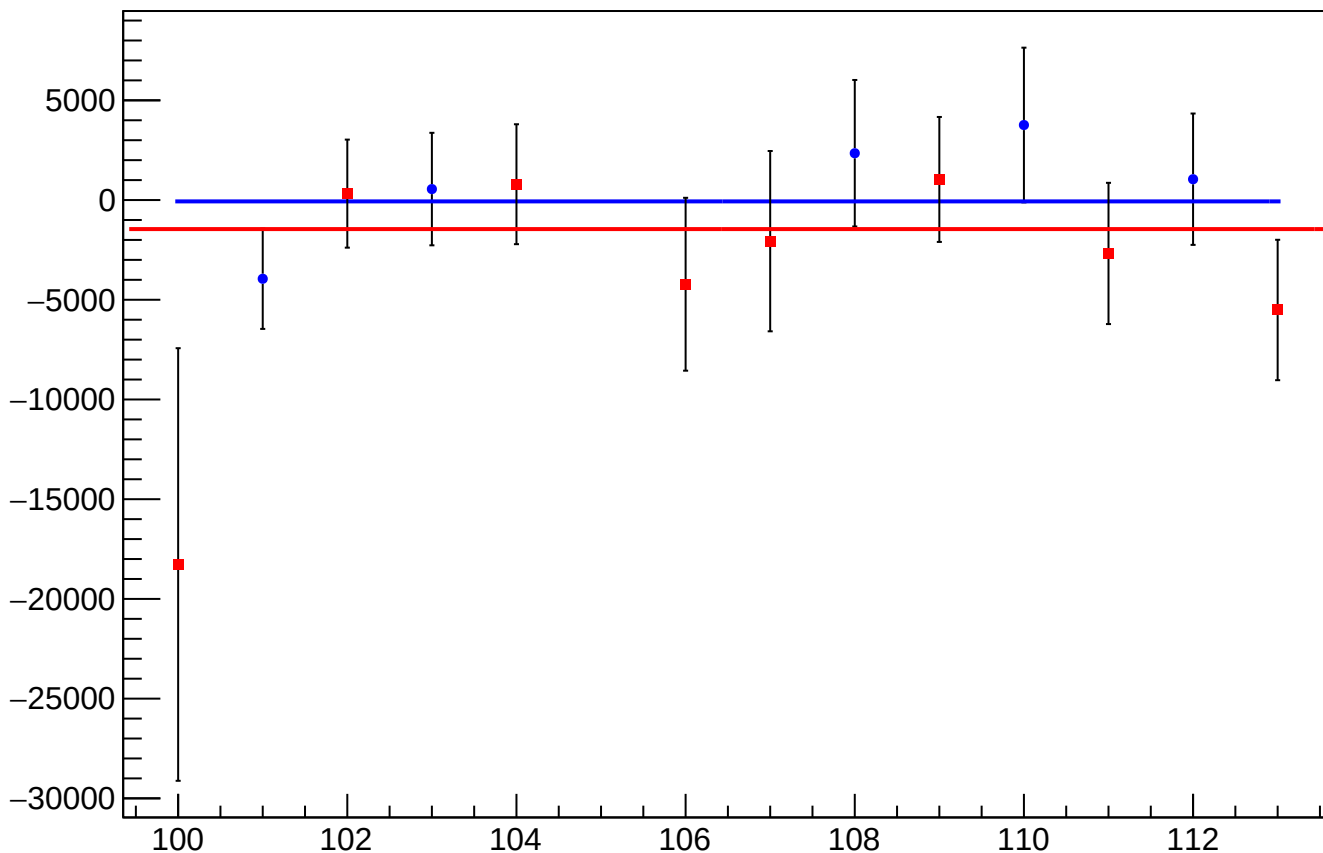
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 217.568 $\pm$ 0.065  $\chi^2$ /NDF: 55056.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_avg\_reg\_correction\_mean vs Slug



Right In: -67.523+/-1391.053  $\chi^2$ /NDF: 4.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1456.040+/-1270.129  $\chi^2$ /NDF: 5.9/7

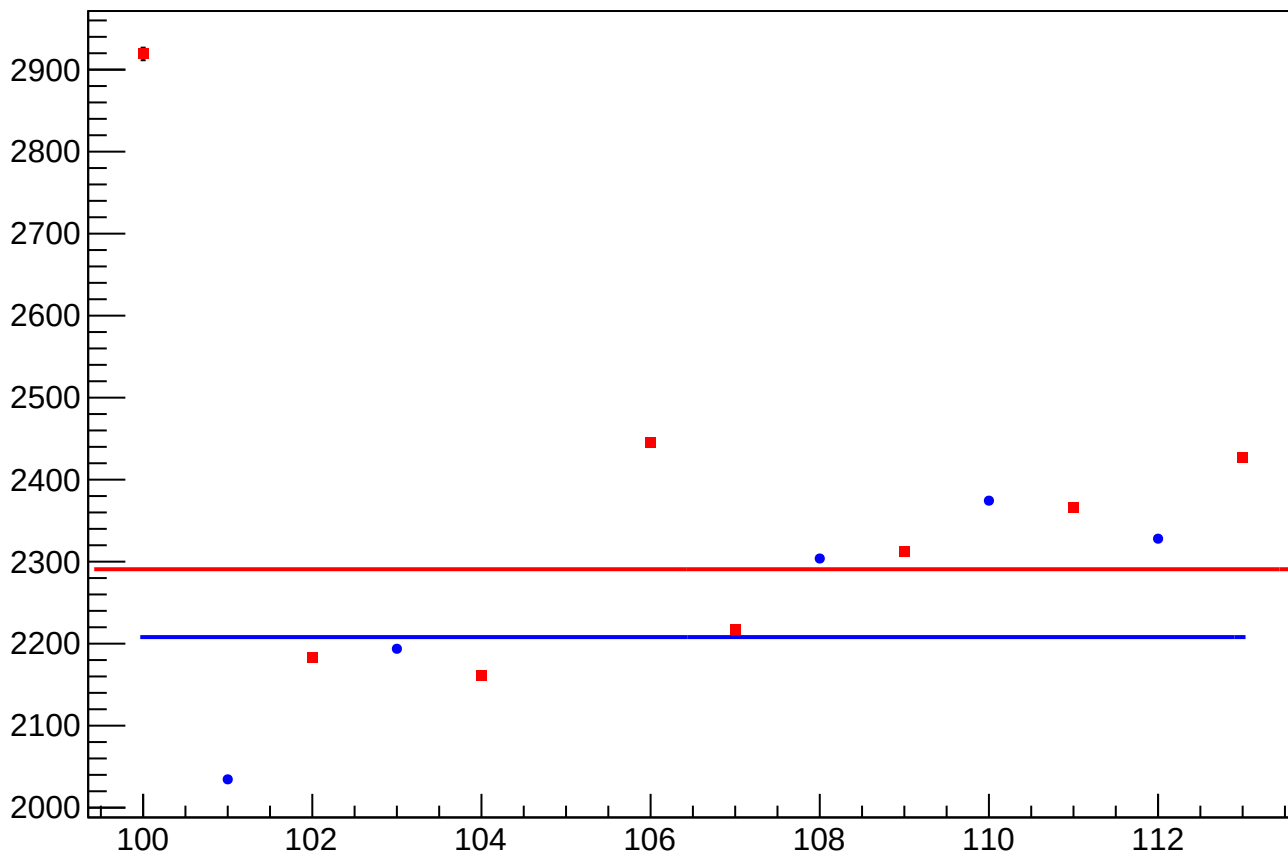
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -824.746+/-937.959  $\chi^2$ /NDF: 10.4/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_avg\_reg\_correction\_rms vs Slug



Right In: 2207.995 $\pm$ 0.984  $\chi^2$ /NDF: 17271.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2290.761 $\pm$ 0.898  $\chi^2$ /NDF: 20637.1/7

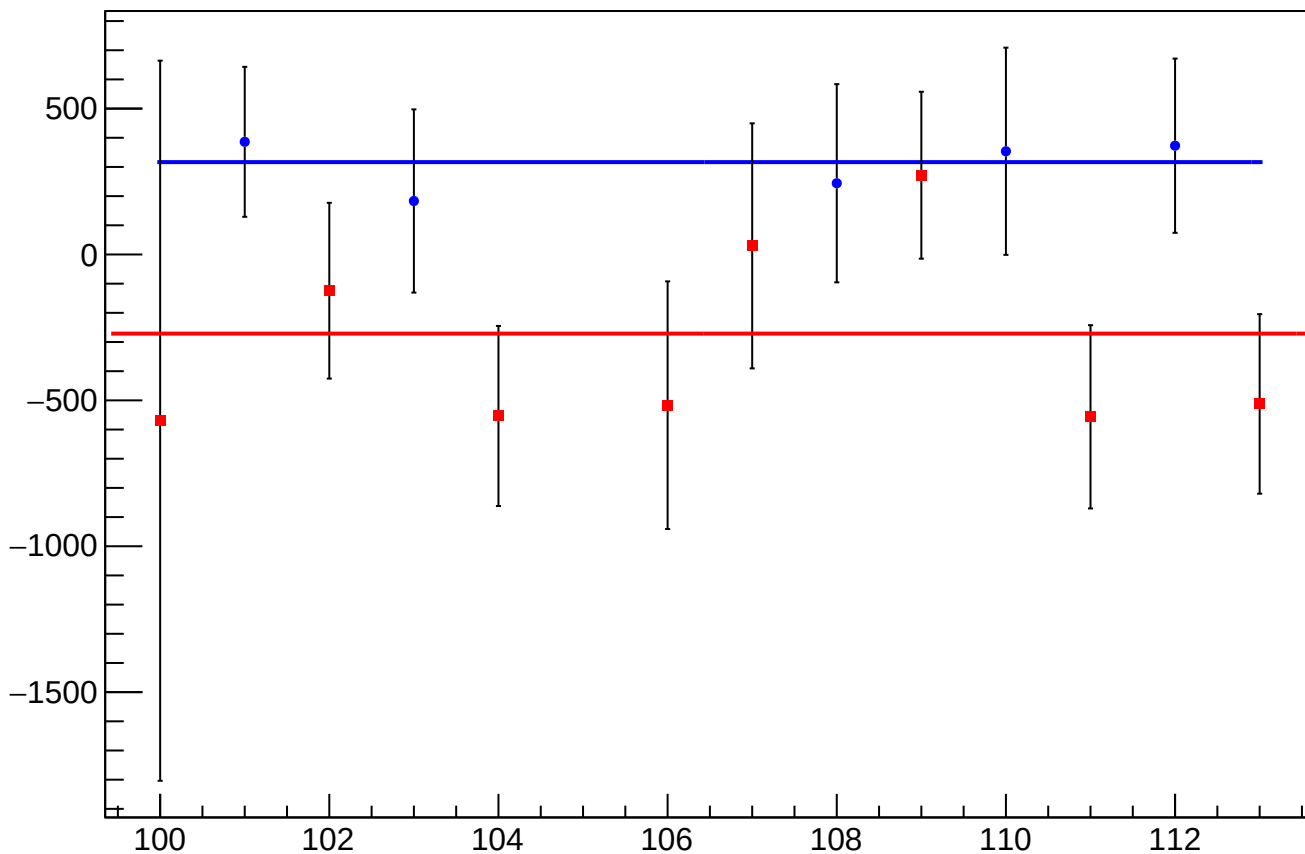
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2253.131 $\pm$ 0.663  $\chi^2$ /NDF: 41769.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 316.562 $\pm$ 137.225  $\chi^2$ /NDF: 0.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -271.209 $\pm$ 122.787  $\chi^2$ /NDF: 7.0/7

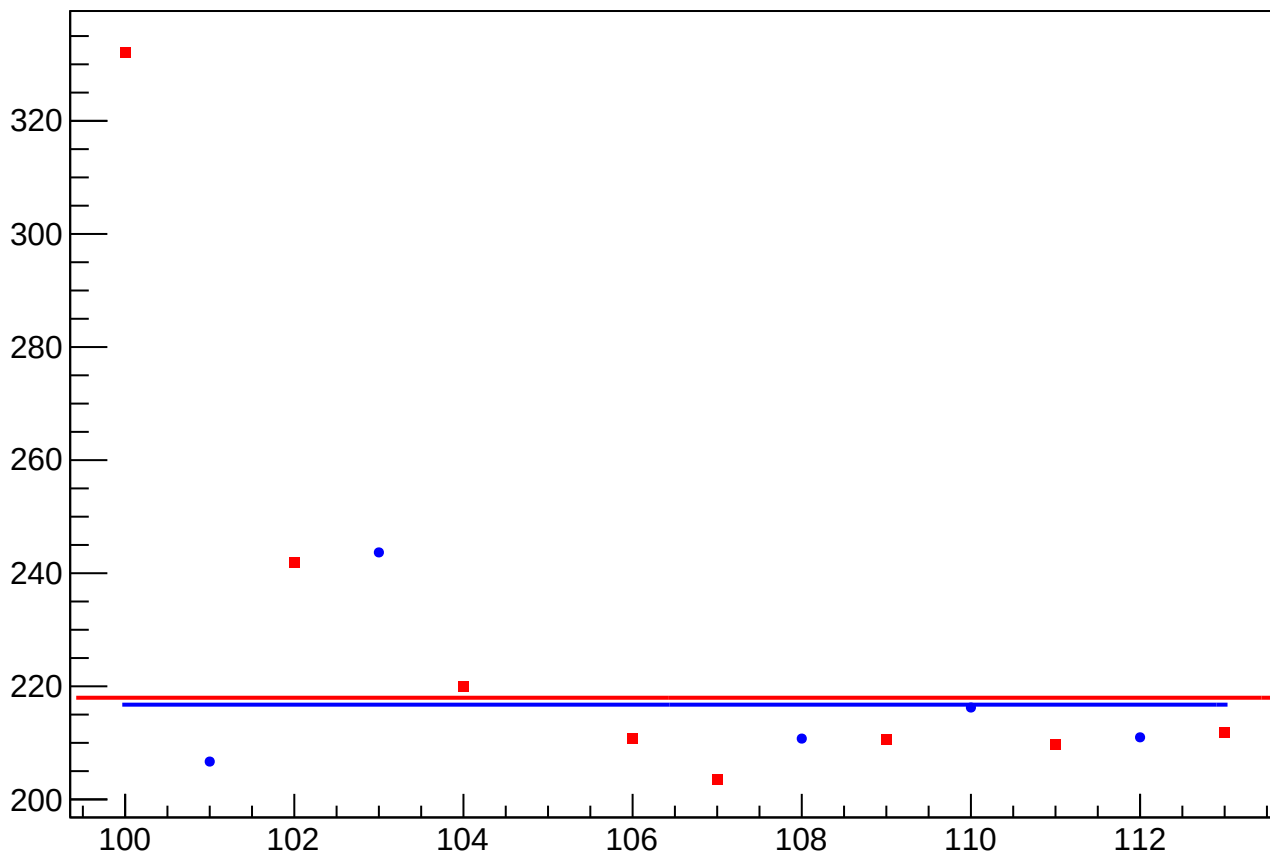
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9.860 $\pm$ 91.504  $\chi^2$ /NDF: 17.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 216.755 $\pm$ 0.097  $\chi^2$ /NDF: 19154.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 217.980 $\pm$ 0.087  $\chi^2$ /NDF: 36302.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

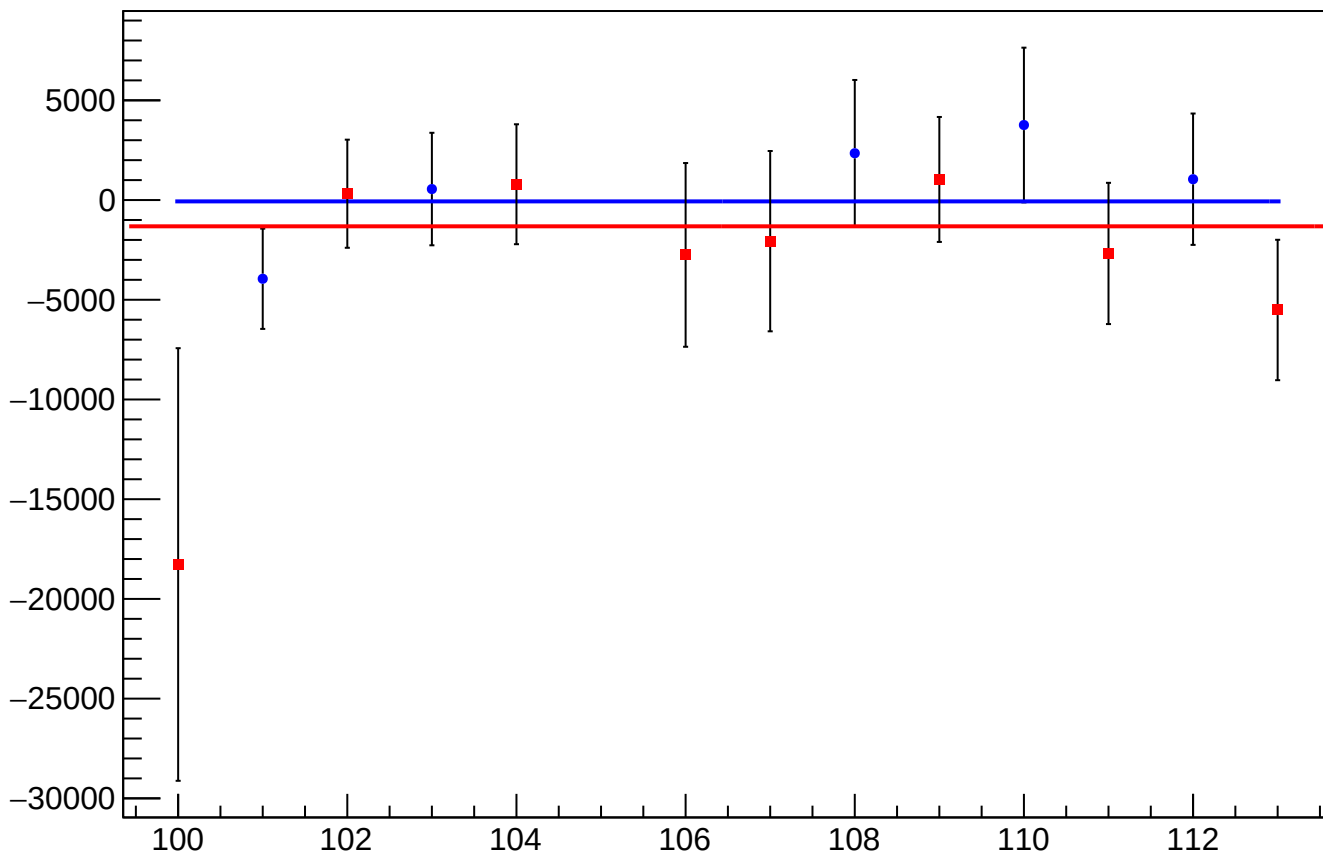
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 217.435 $\pm$ 0.065  $\chi^2$ /NDF: 55545.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_26\_avg\_cor\_correction\_mean vs Slug



Right In: -67.255+/-1391.072  $\chi^2$ /NDF: 4.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1317.270+/-1276.623  $\chi^2$ /NDF: 5.6/7

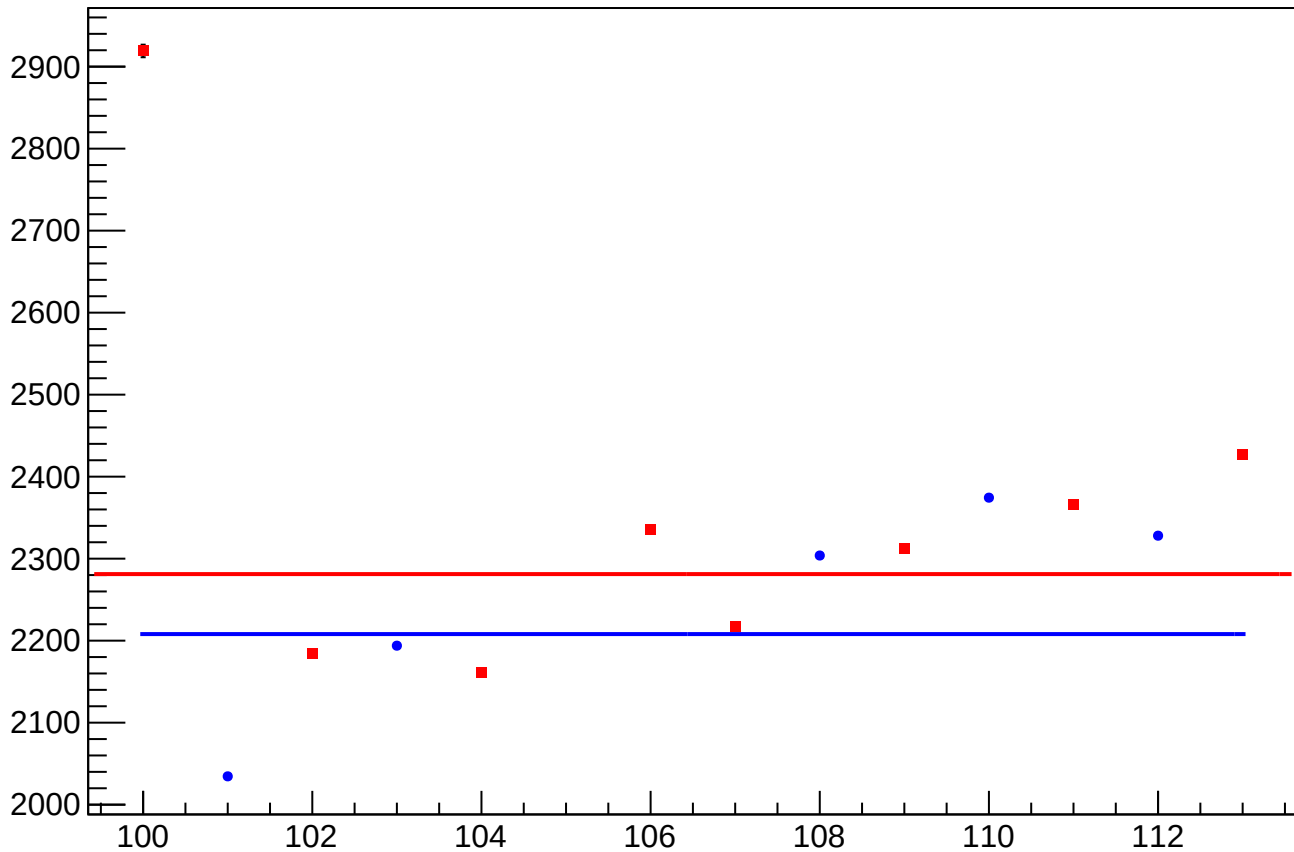
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -745.792+/-940.571  $\chi^2$ /NDF: 9.9/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_avg\_cor\_correction\_rms vs Slug



Right In: 2208.023+/-0.984  $\chi^2/\text{NDF}$ : 17270.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2281.180+/-0.903  $\chi^2/\text{NDF}$ : 18094.1/7

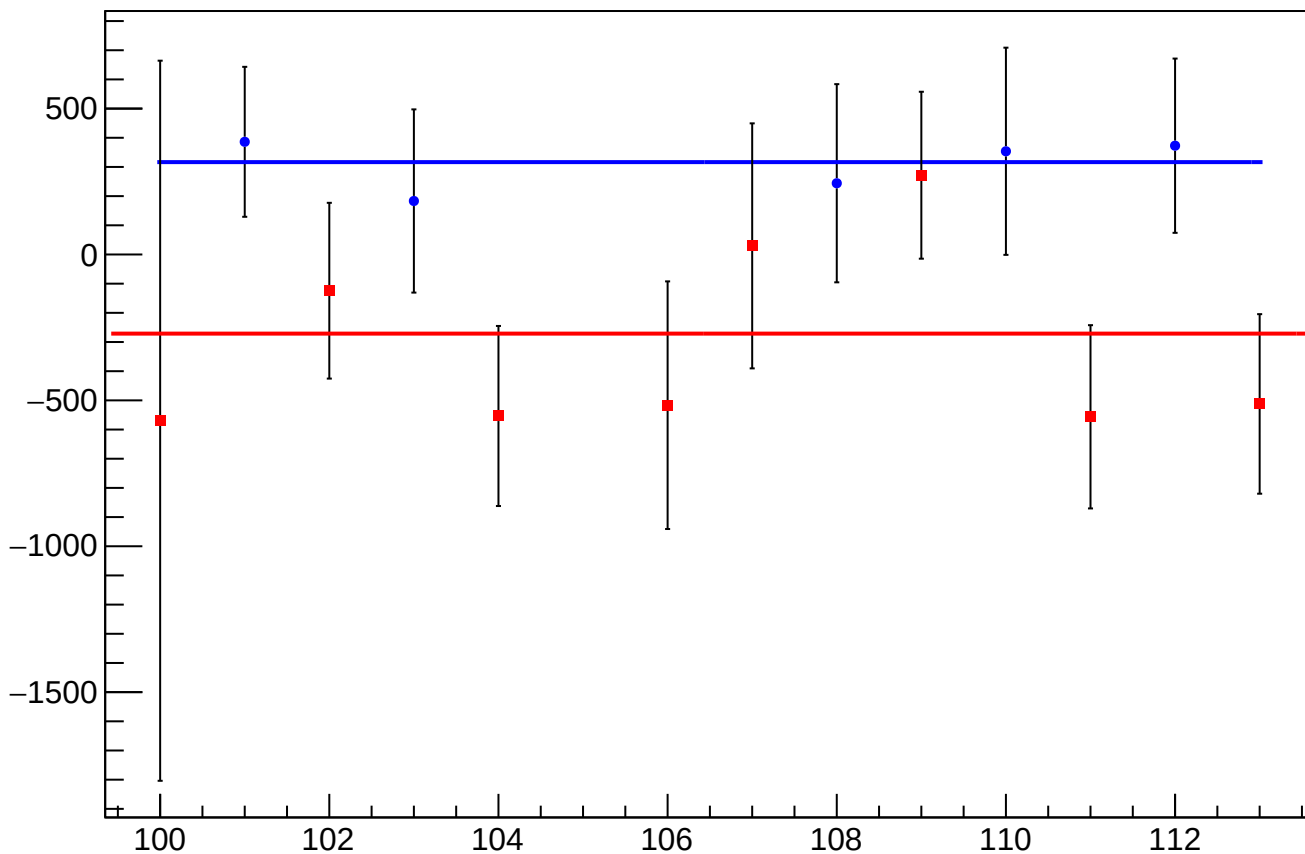
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2247.735+/-0.665  $\chi^2/\text{NDF}$ : 38367.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 316.562 $\pm$ 137.225  $\chi^2$ /NDF: 0.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -271.209 $\pm$ 122.787  $\chi^2$ /NDF: 7.0/7

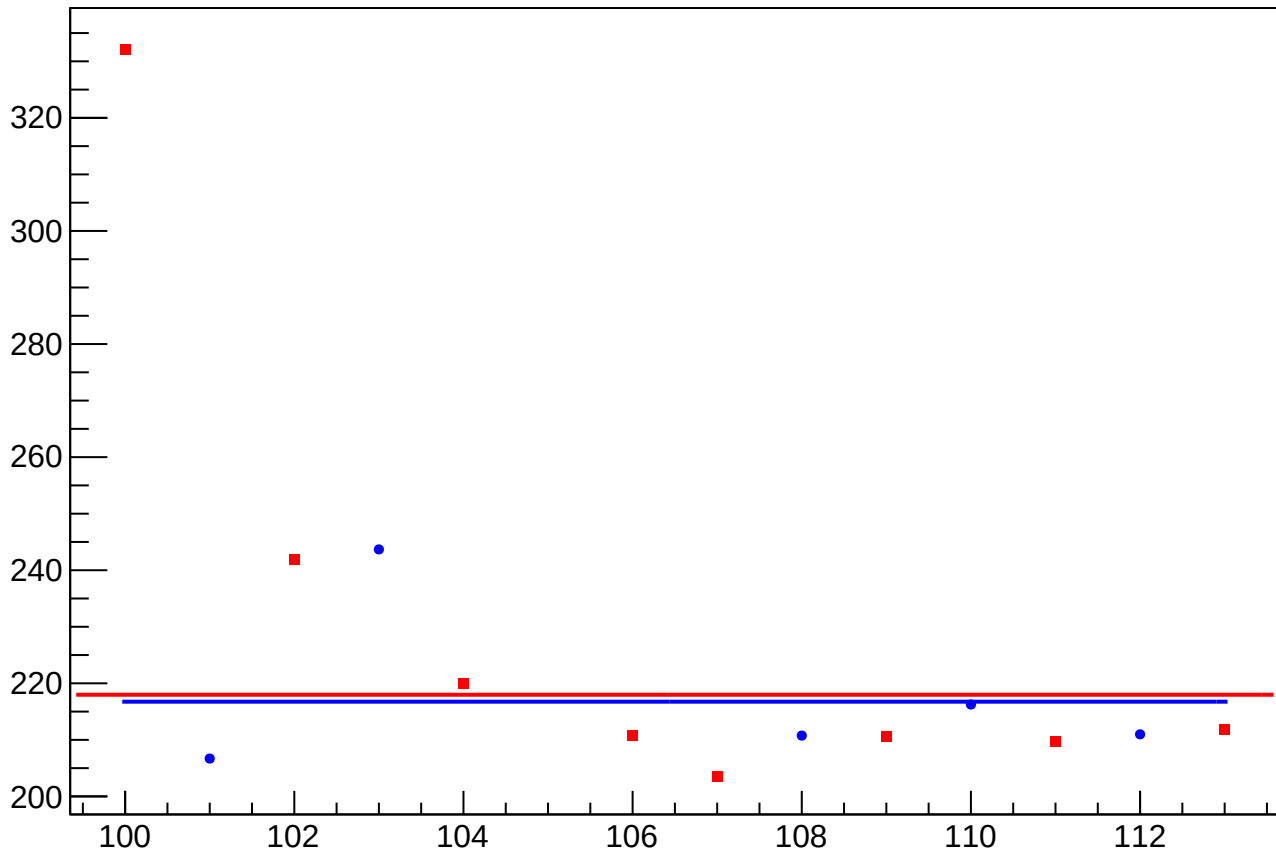
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9.860 $\pm$ 91.504  $\chi^2$ /NDF: 17.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 216.755 $\pm$ 0.097  $\chi^2$ /NDF: 19154.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 217.980 $\pm$ 0.087  $\chi^2$ /NDF: 36302.1/7

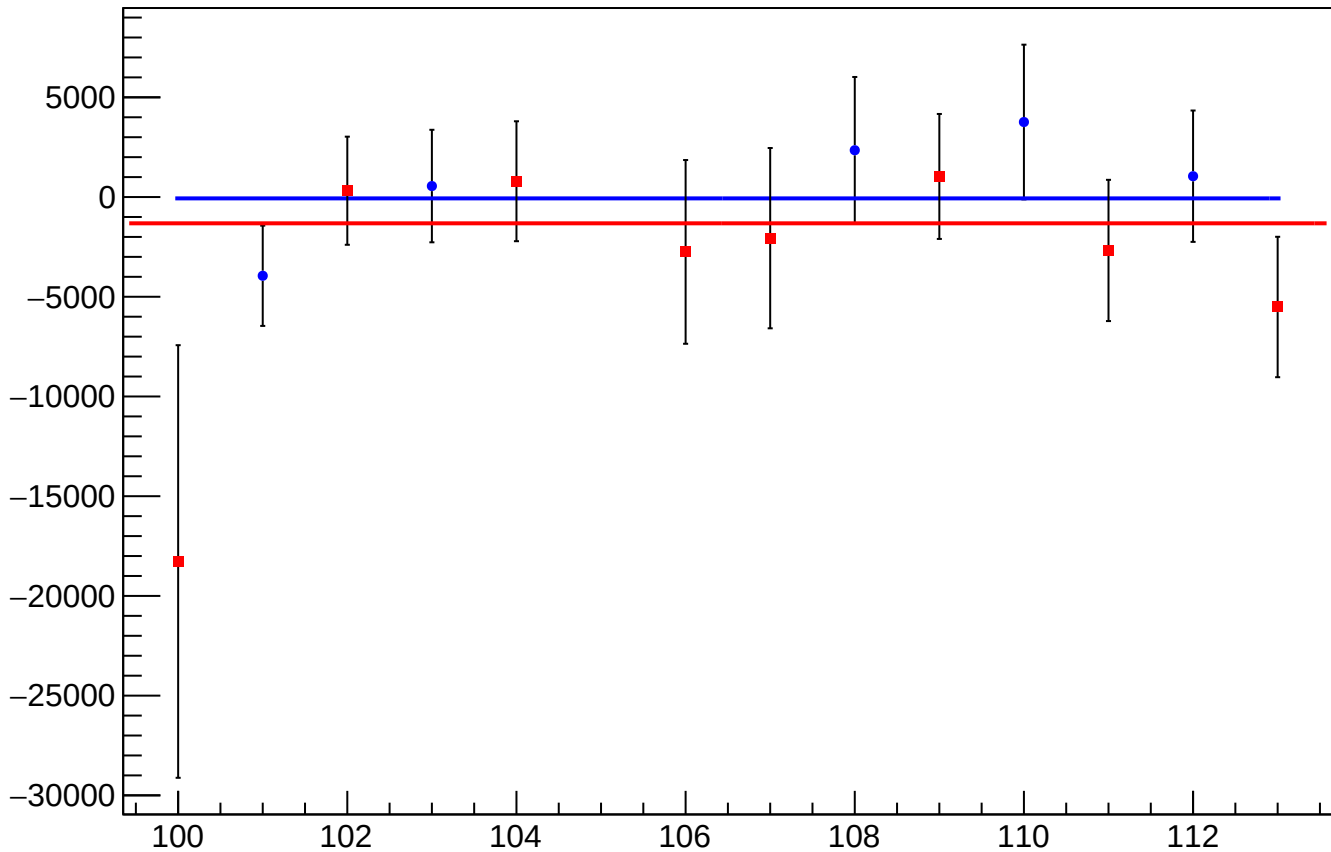
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 217.435 $\pm$ 0.065  $\chi^2$ /NDF: 55545.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -67.255+/-1391.072  $\chi^2/\text{NDF}$ : 4.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1317.270+/-1276.623  $\chi^2/\text{NDF}$ : 5.6/7

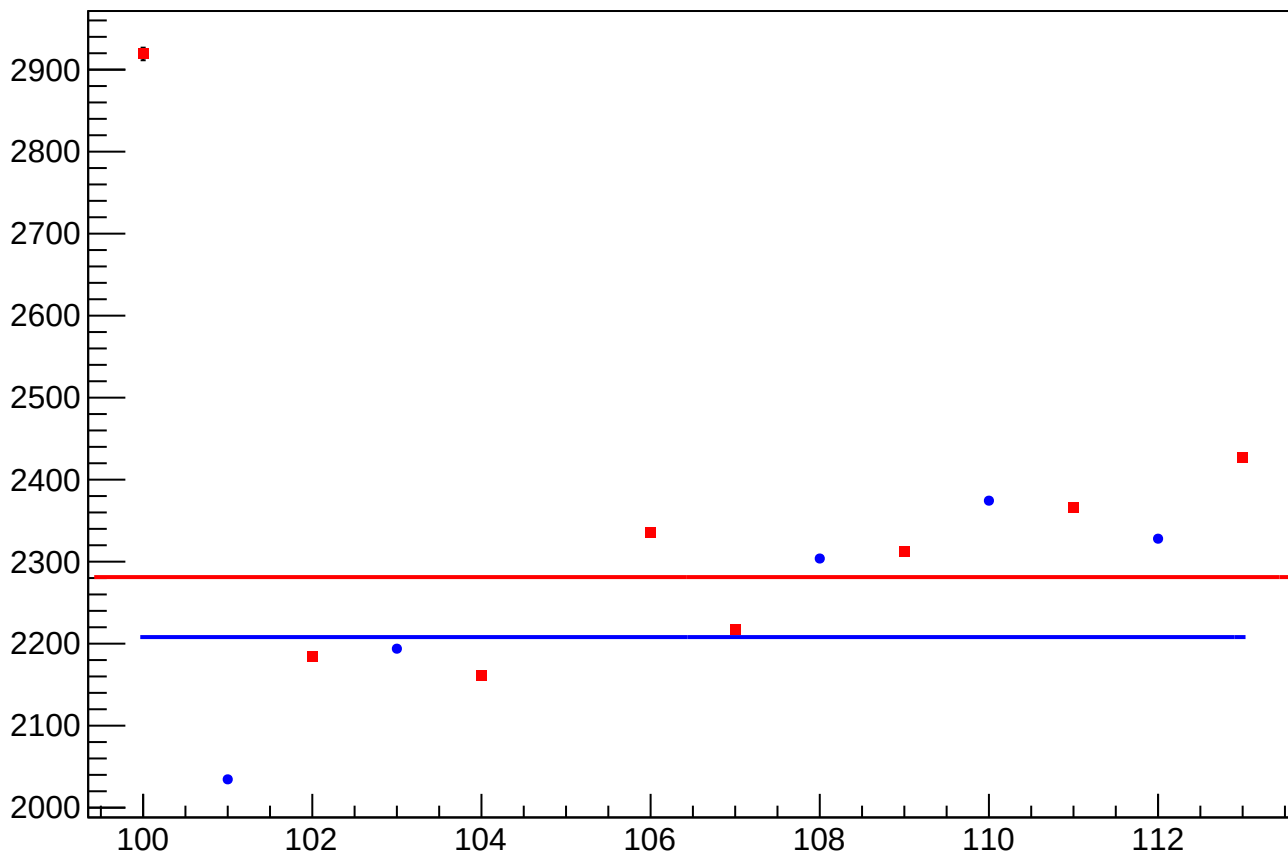
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -745.792+/-940.571  $\chi^2/\text{NDF}$ : 9.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 2208.023+/-0.984  $\chi^2/\text{NDF}$ : 17270.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2281.180+/-0.903  $\chi^2/\text{NDF}$ : 18094.1/7

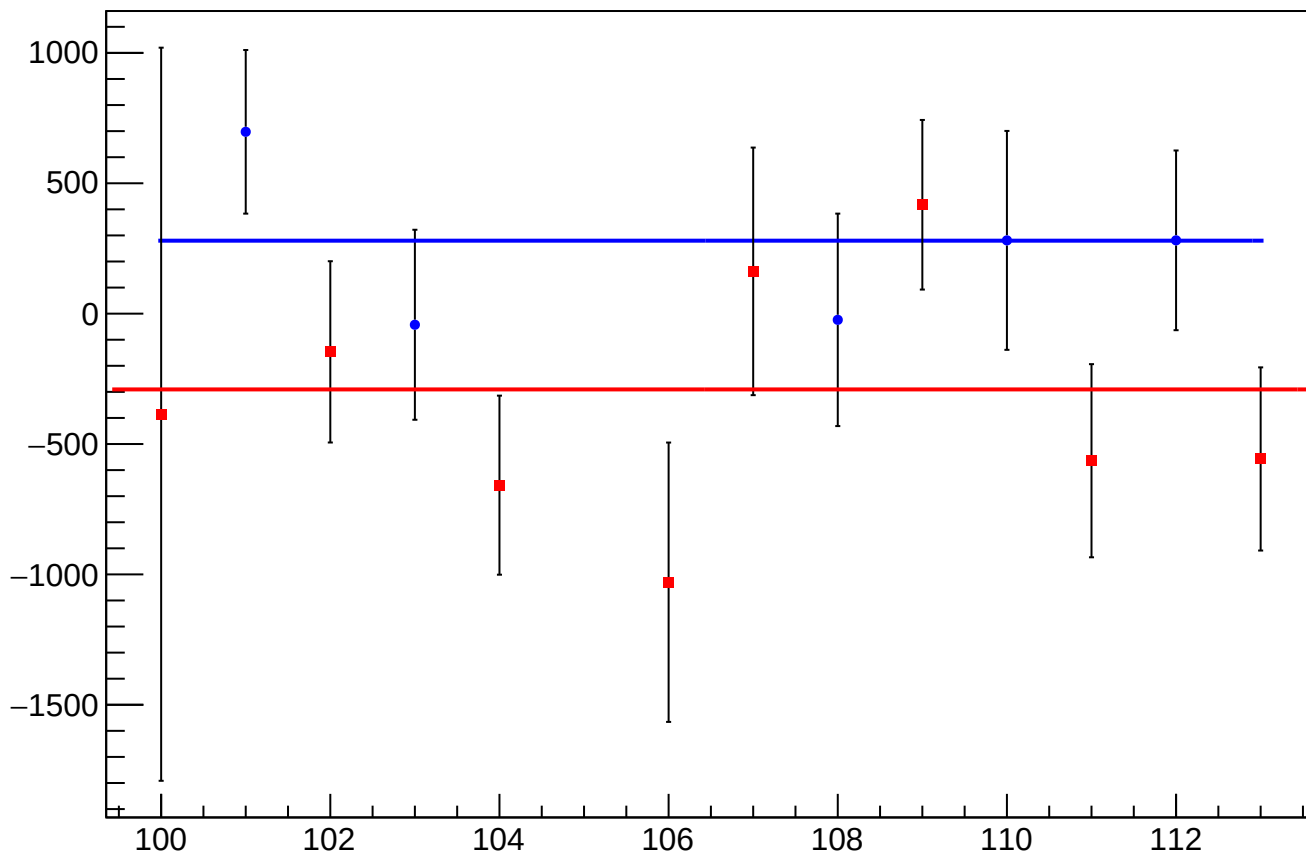
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2247.735+/-0.665  $\chi^2/\text{NDF}$ : 38367.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 279.850 $\pm$ 162.622  $\chi^2$ /NDF: 3.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -290.581 $\pm$ 141.374  $\chi^2$ /NDF: 10.0/7

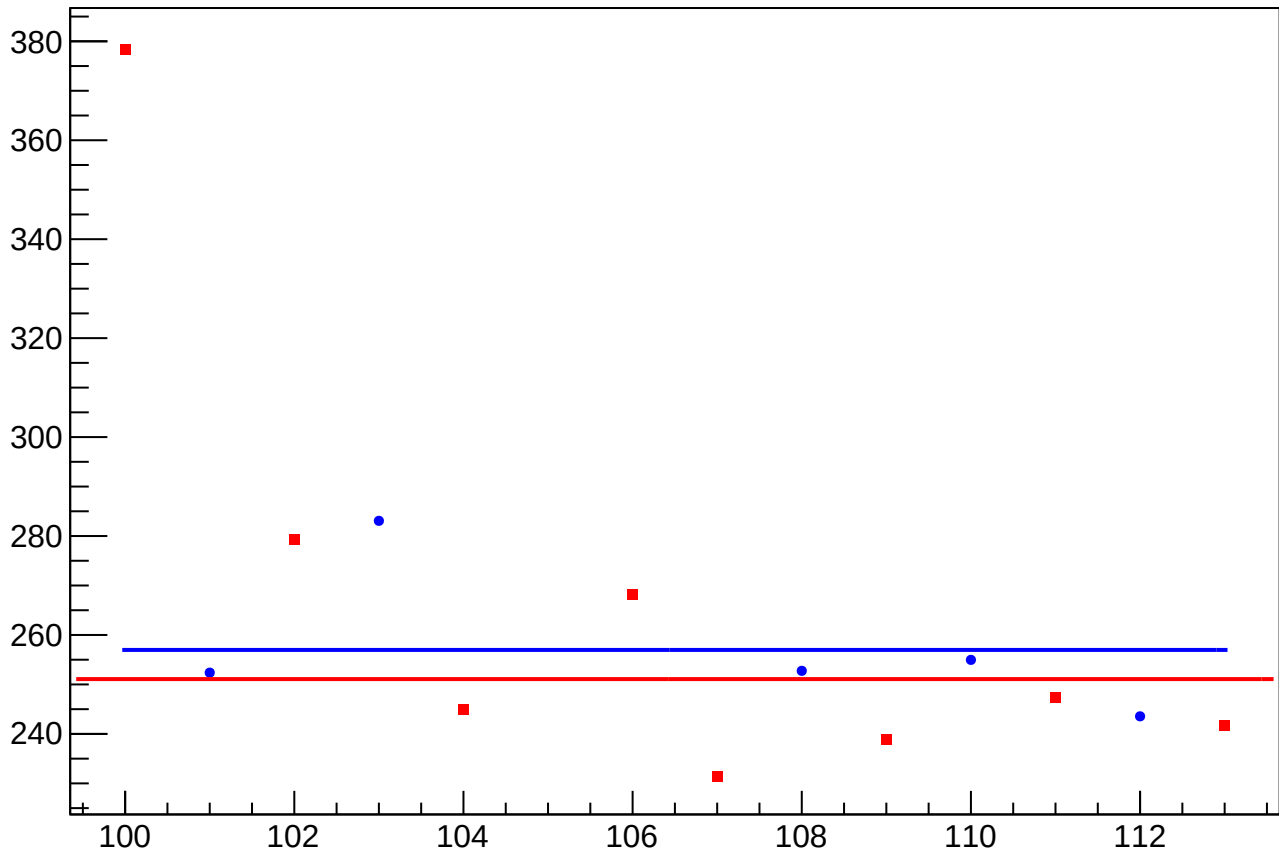
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -45.043 $\pm$ 106.693  $\chi^2$ /NDF: 20.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 256.977 $\pm$ 0.115  $\chi^2$ /NDF: 13980.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 251.082 $\pm$ 0.100  $\chi^2$ /NDF: 40082.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

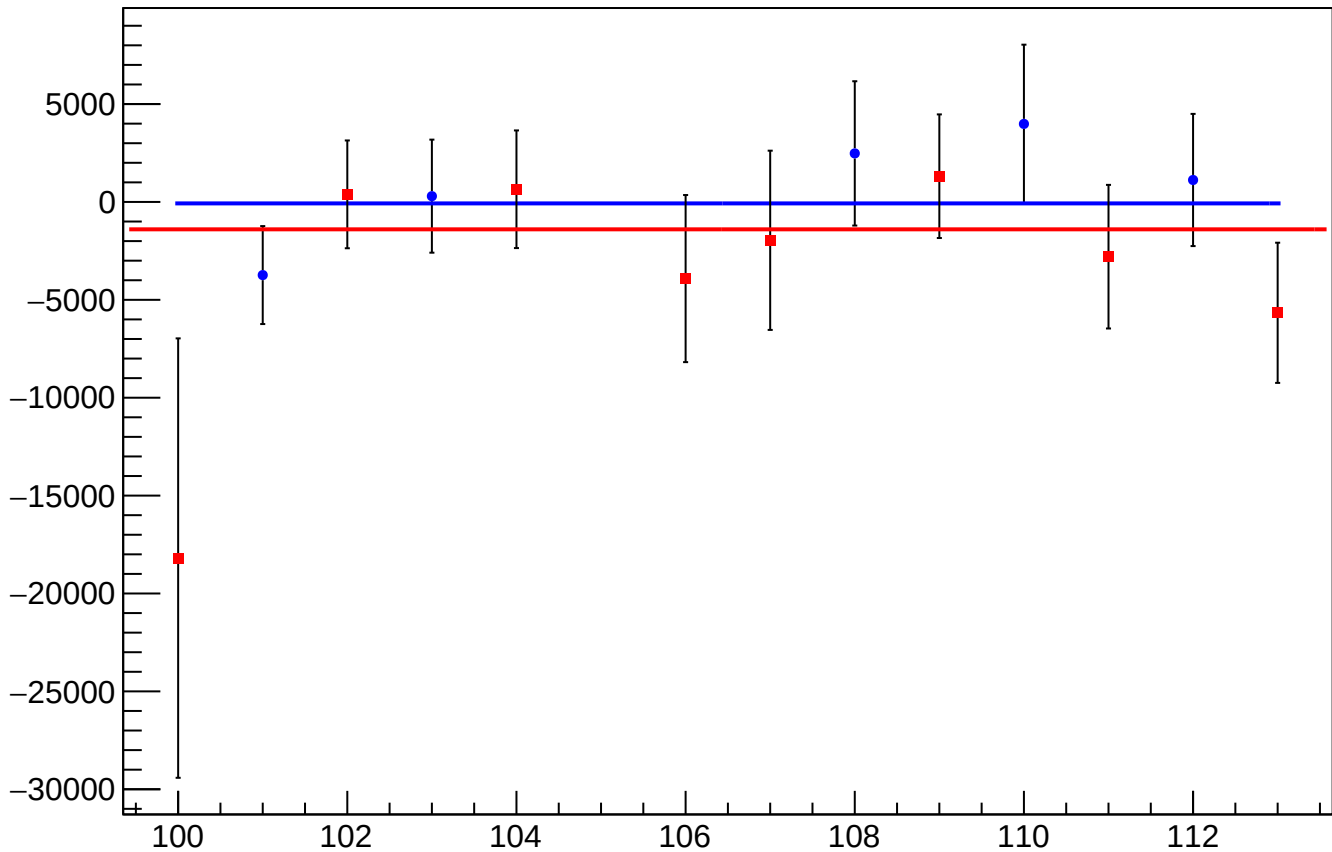
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 253.620 $\pm$ 0.075  $\chi^2$ /NDF: 55560.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_26\_avg\_dit\_correction\_mean vs Slug



Right In: -74.212+/-1411.235  $\chi^2/\text{NDF}$ : 3.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1398.894+/-1284.708  $\chi^2/\text{NDF}$ : 5.8/7

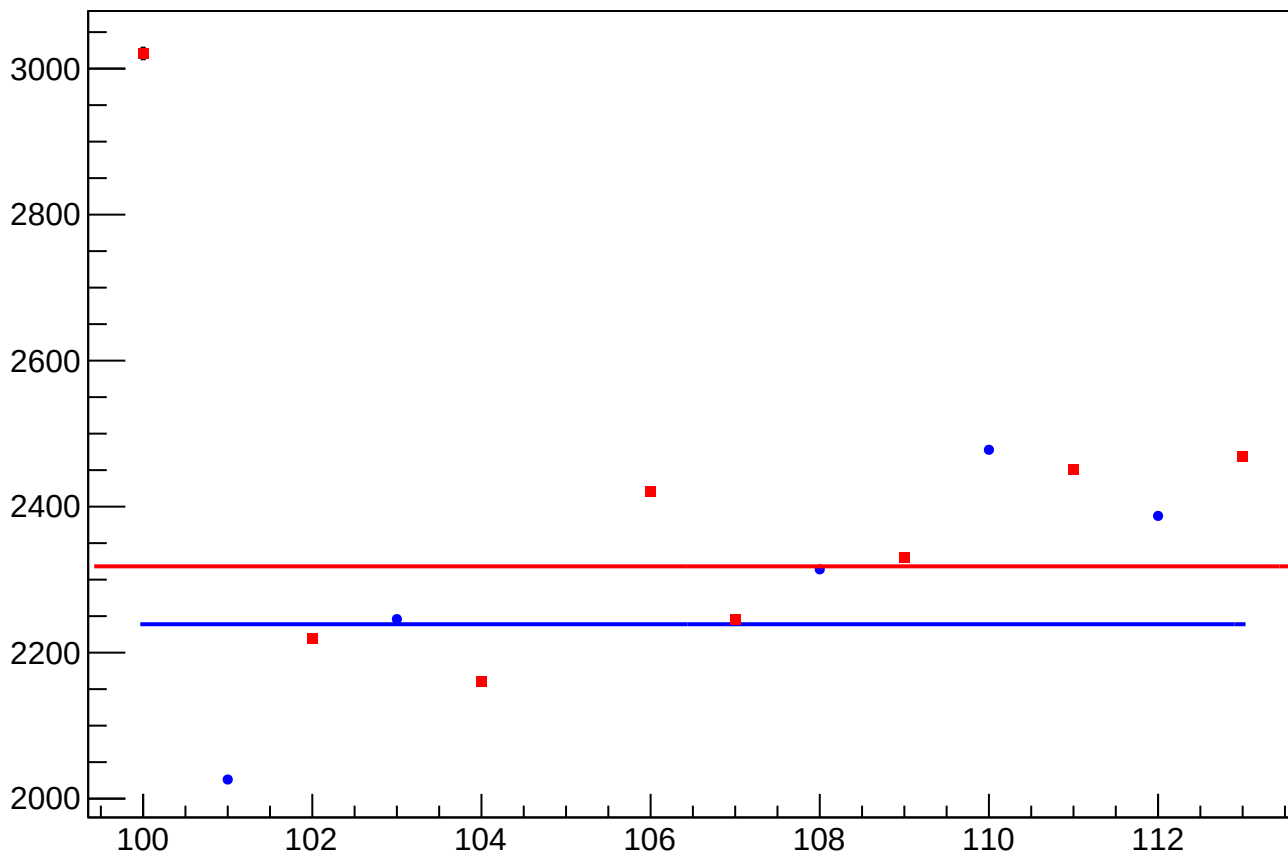
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -798.587+/-950.015  $\chi^2/\text{NDF}$ : 10.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_dit\_correction\_rms vs Slug



Right In: 2238.899+/-0.998  $\chi^2/\text{NDF}$ : 26133.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2318.200+/-0.908  $\chi^2/\text{NDF}$ : 23834.6/7

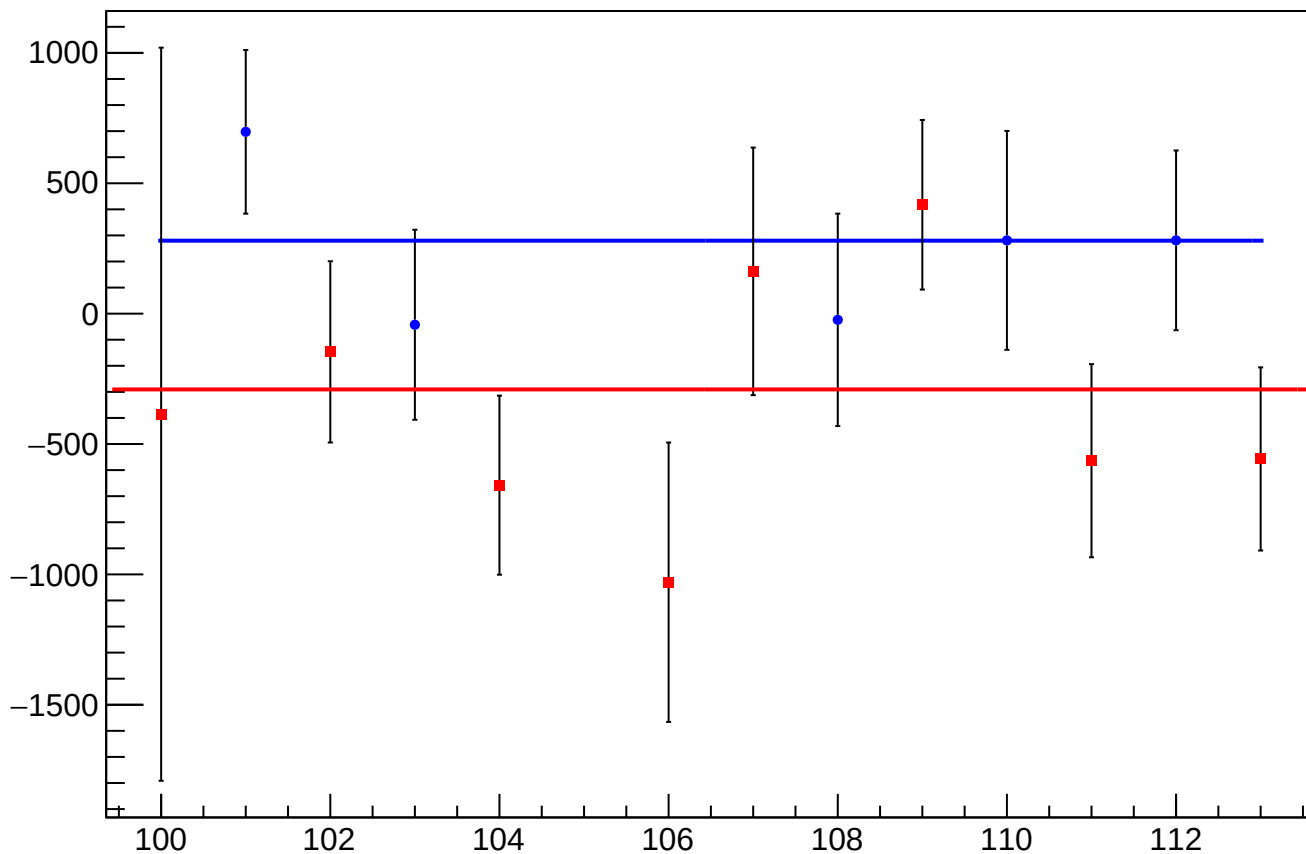
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2282.263+/-0.672  $\chi^2/\text{NDF}$ : 53421.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 279.841 $\pm$ 162.621  $\chi^2/\text{NDF}$ : 3.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -290.577 $\pm$ 141.373  $\chi^2/\text{NDF}$ : 10.0/7

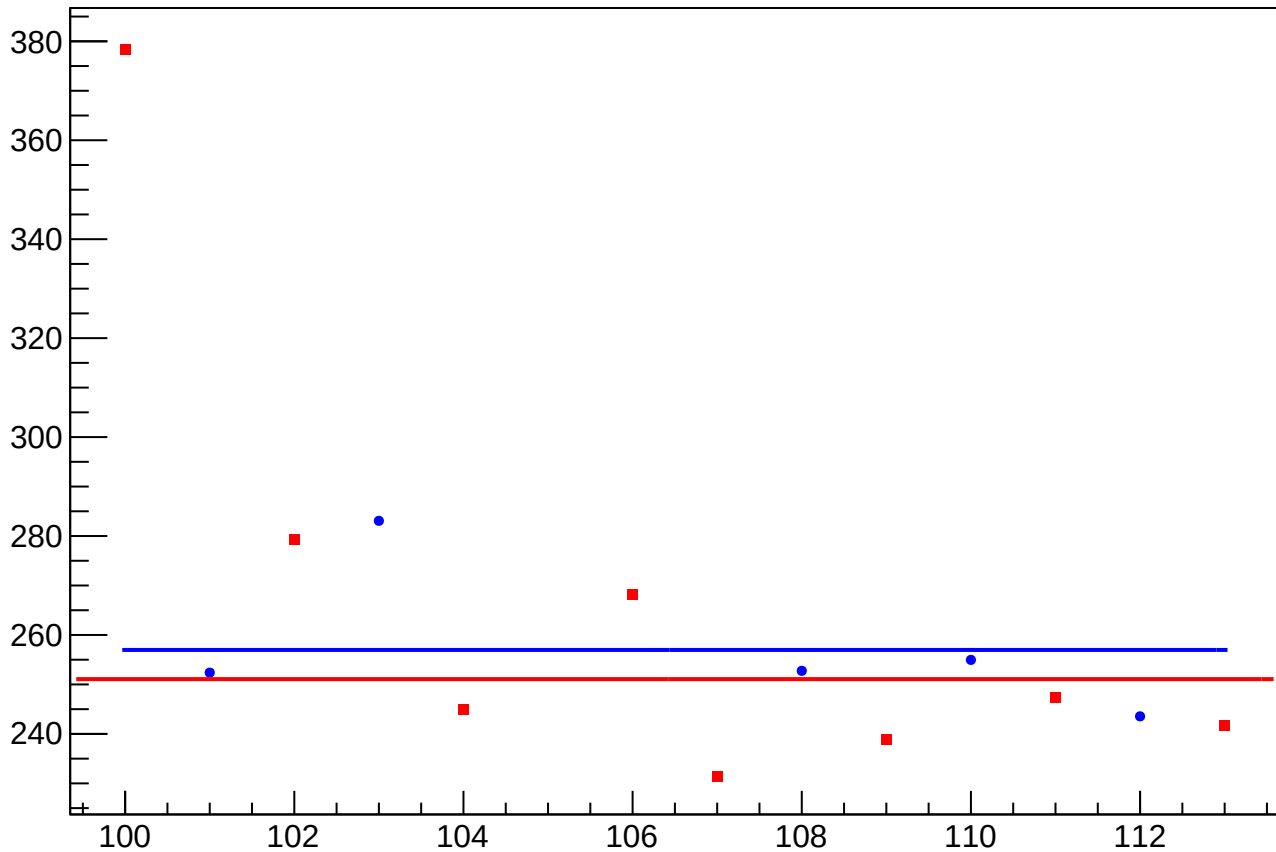
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -45.044 $\pm$ 106.693  $\chi^2/\text{NDF}$ : 20.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 256.975 $\pm$ 0.115  $\chi^2$ /NDF: 13981.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 251.080 $\pm$ 0.100  $\chi^2$ /NDF: 40082.8/7

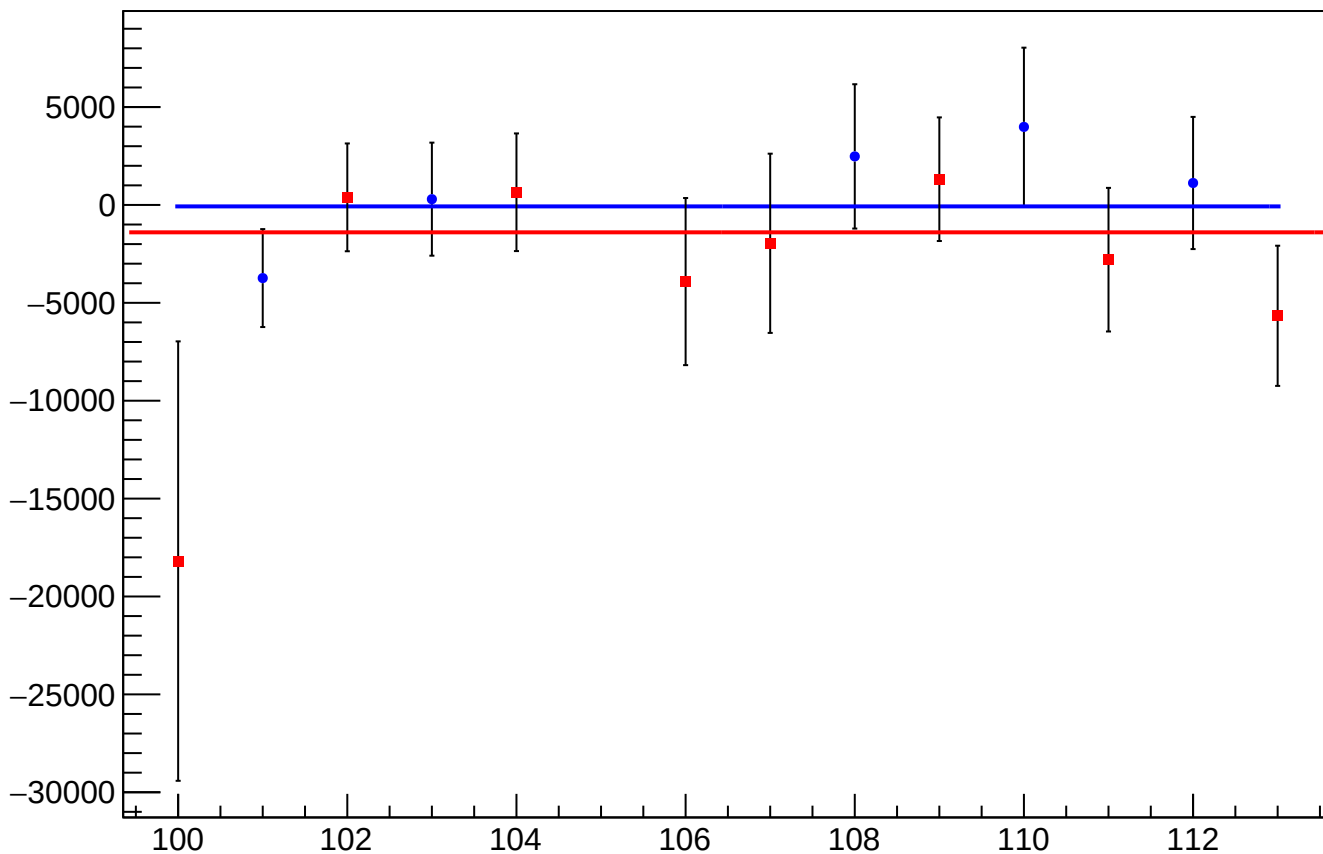
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 253.618 $\pm$ 0.075  $\chi^2$ /NDF: 55561.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -74.212 $\pm$ 1411.230  $\chi^2$ /NDF: 3.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1398.891 $\pm$ 1284.704  $\chi^2$ /NDF: 5.8/7

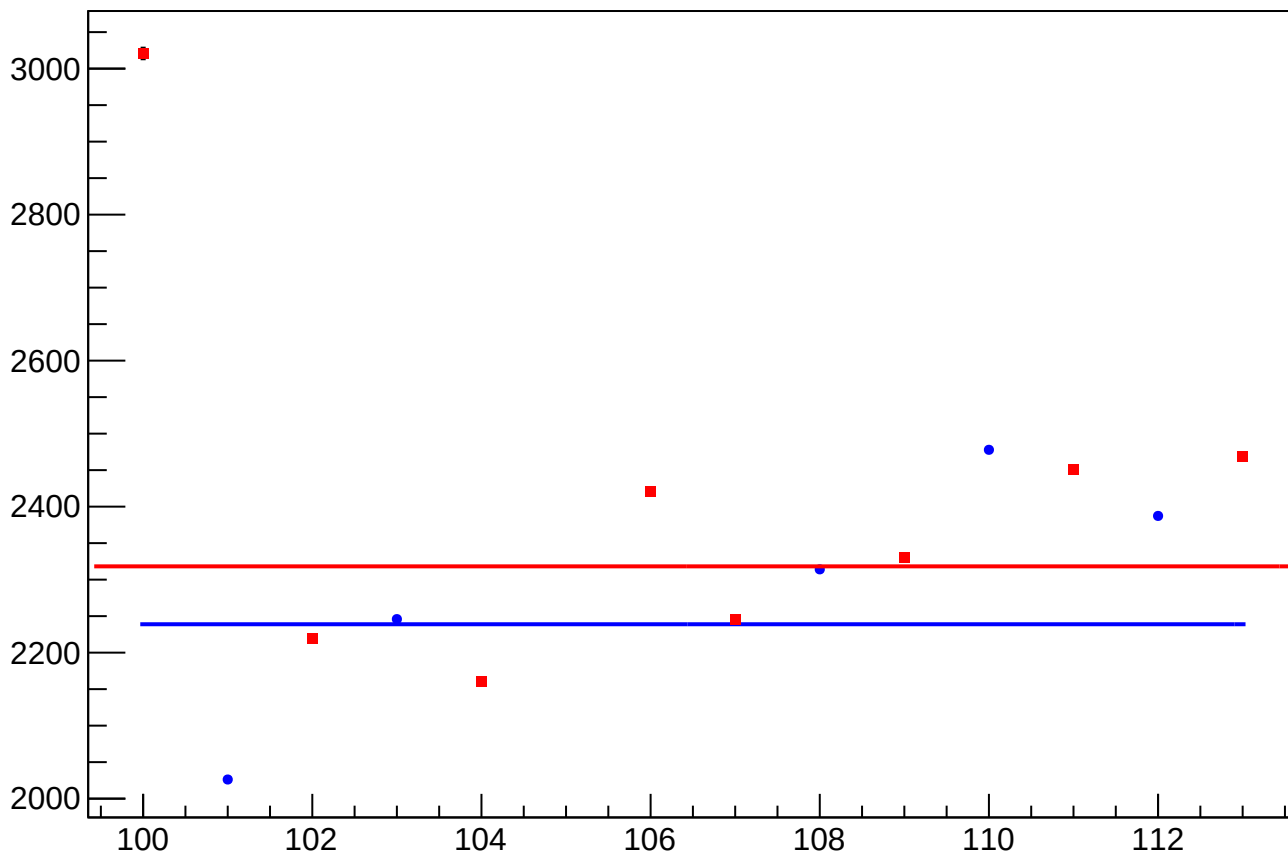
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -798.585 $\pm$ 950.011  $\chi^2$ /NDF: 10.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 2238.892+/-0.998  $\chi^2/\text{NDF}$ : 26132.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2318.192+/-0.908  $\chi^2/\text{NDF}$ : 23834.2/7

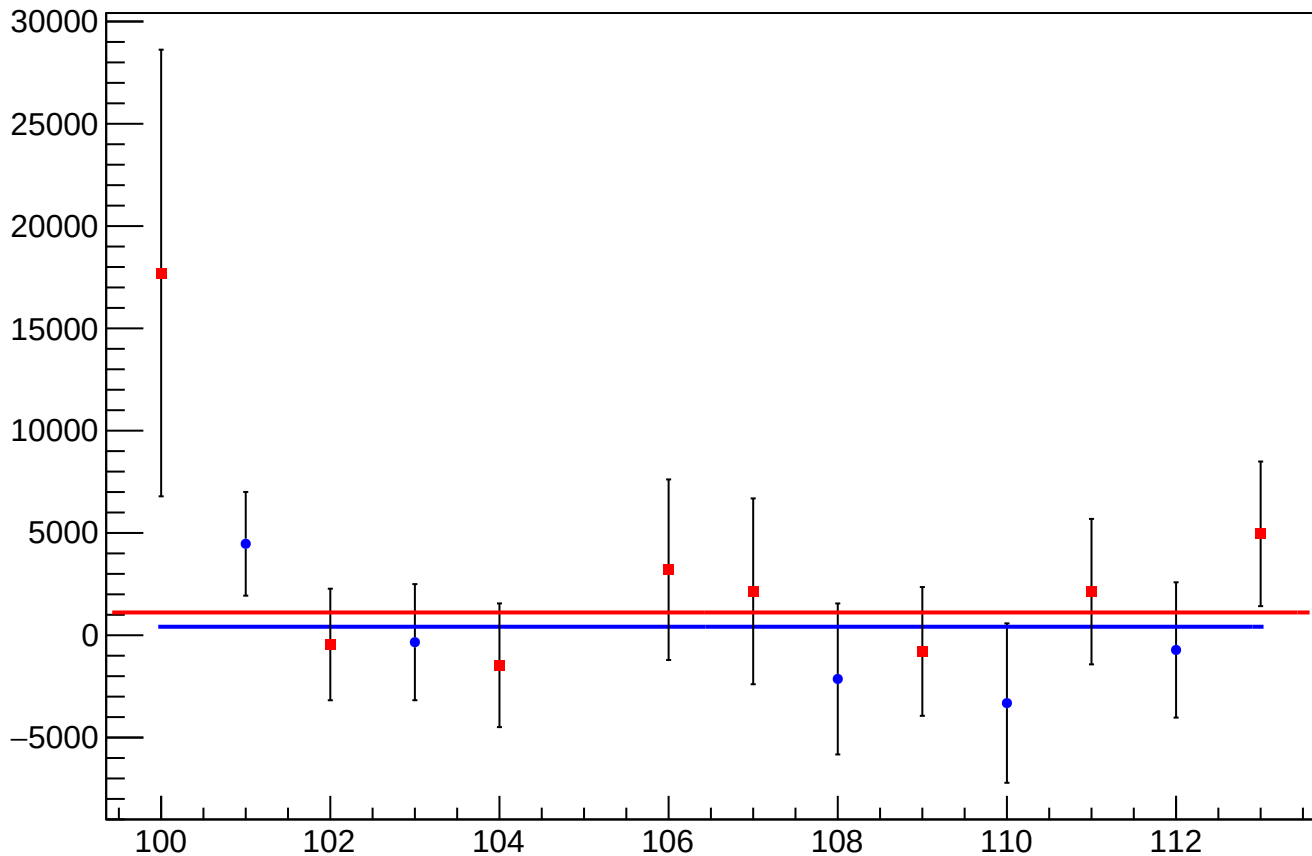
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2282.256+/-0.672  $\chi^2/\text{NDF}$ : 53419.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_mean vs Slug



Right In: 416.119+/-1399.575  $\chi^2/\text{NDF}$ : 4.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1113.338+/-1277.880  $\chi^2/\text{NDF}$ : 5.3/7

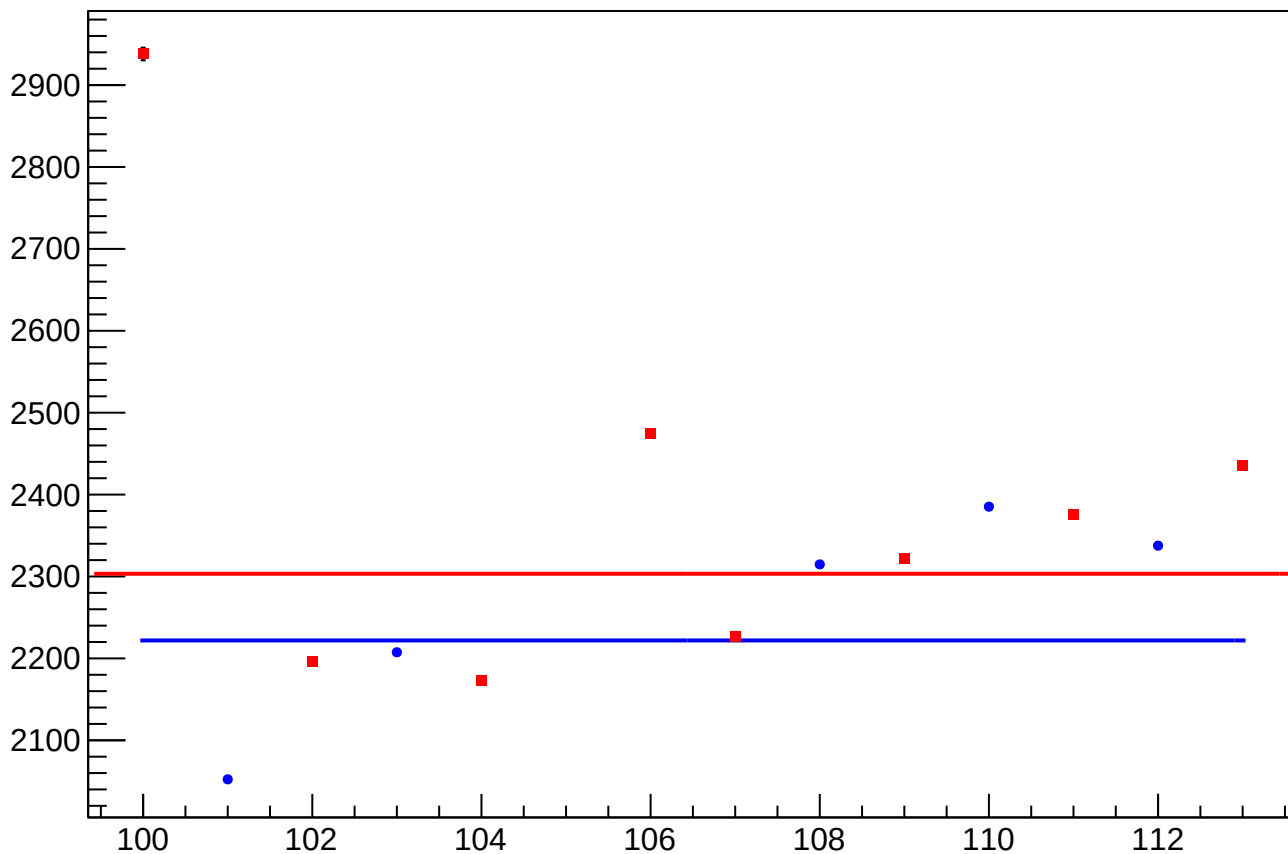
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 796.353+/-943.693  $\chi^2/\text{NDF}$ : 9.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_rms vs Slug



Right In: 2221.905 $\pm$ 0.990  $\chi^2$ /NDF: 16232.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2303.333 $\pm$ 0.904  $\chi^2$ /NDF: 20811.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

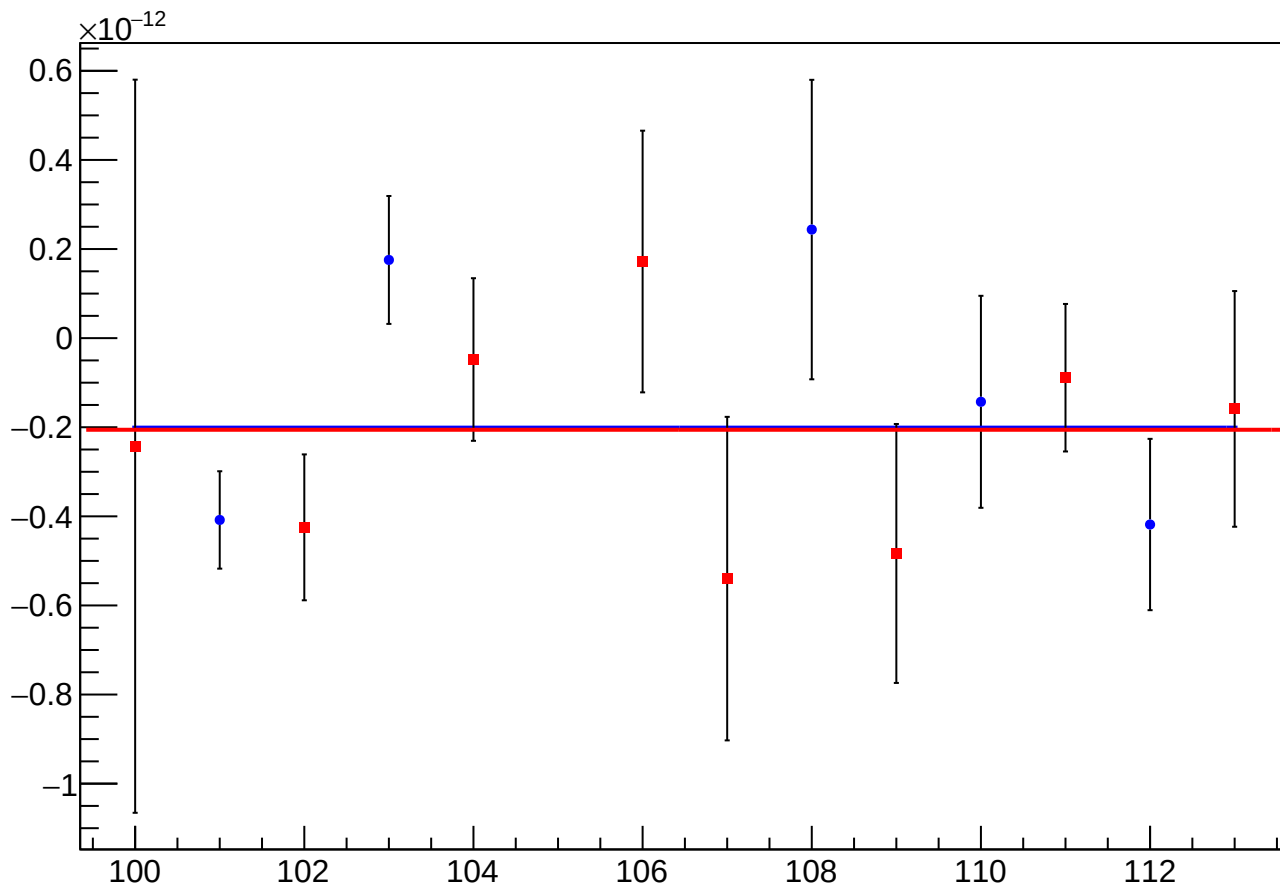
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2266.313 $\pm$ 0.667  $\chi^2$ /NDF: 40736.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_26\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 13.6/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 6.5/7

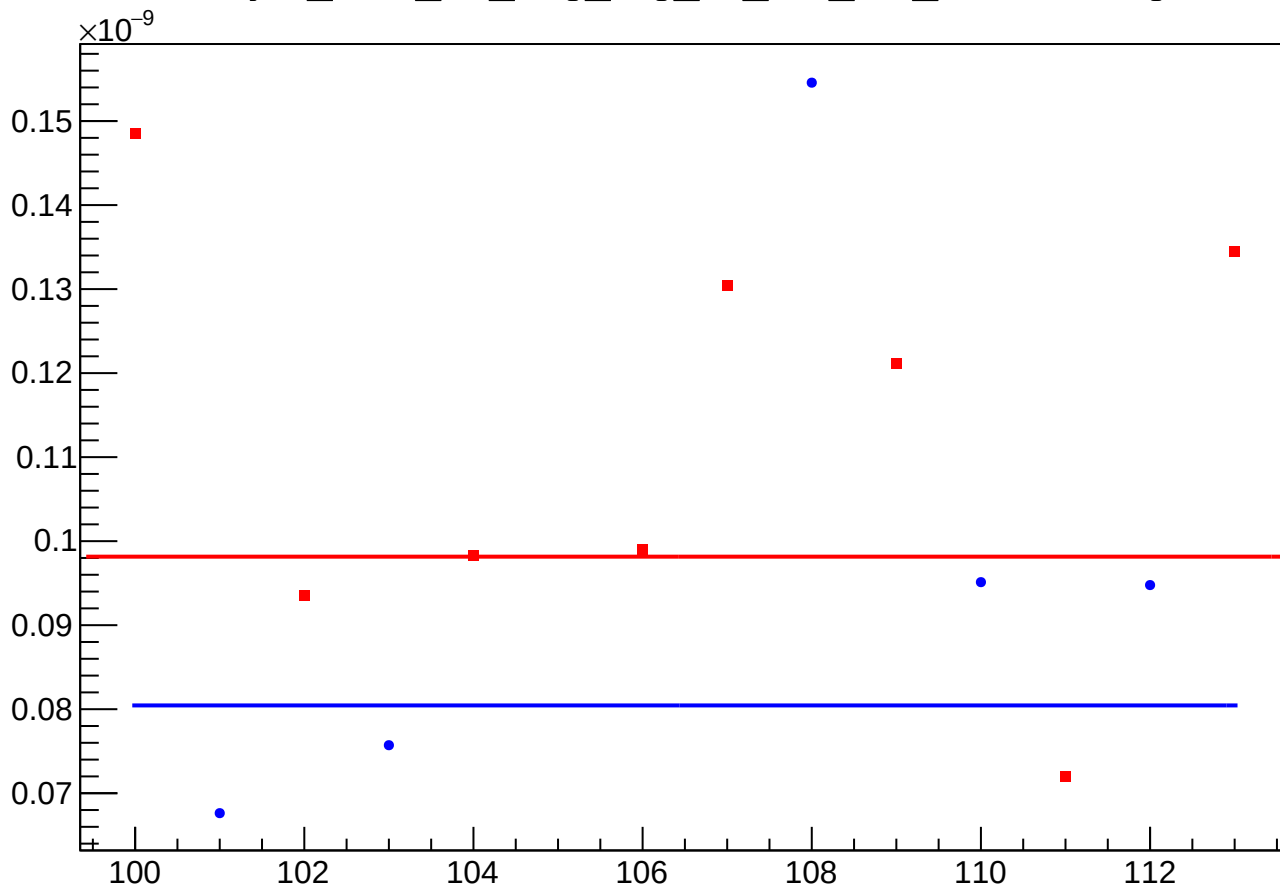
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 20.0/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 145659.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 124782.2/7

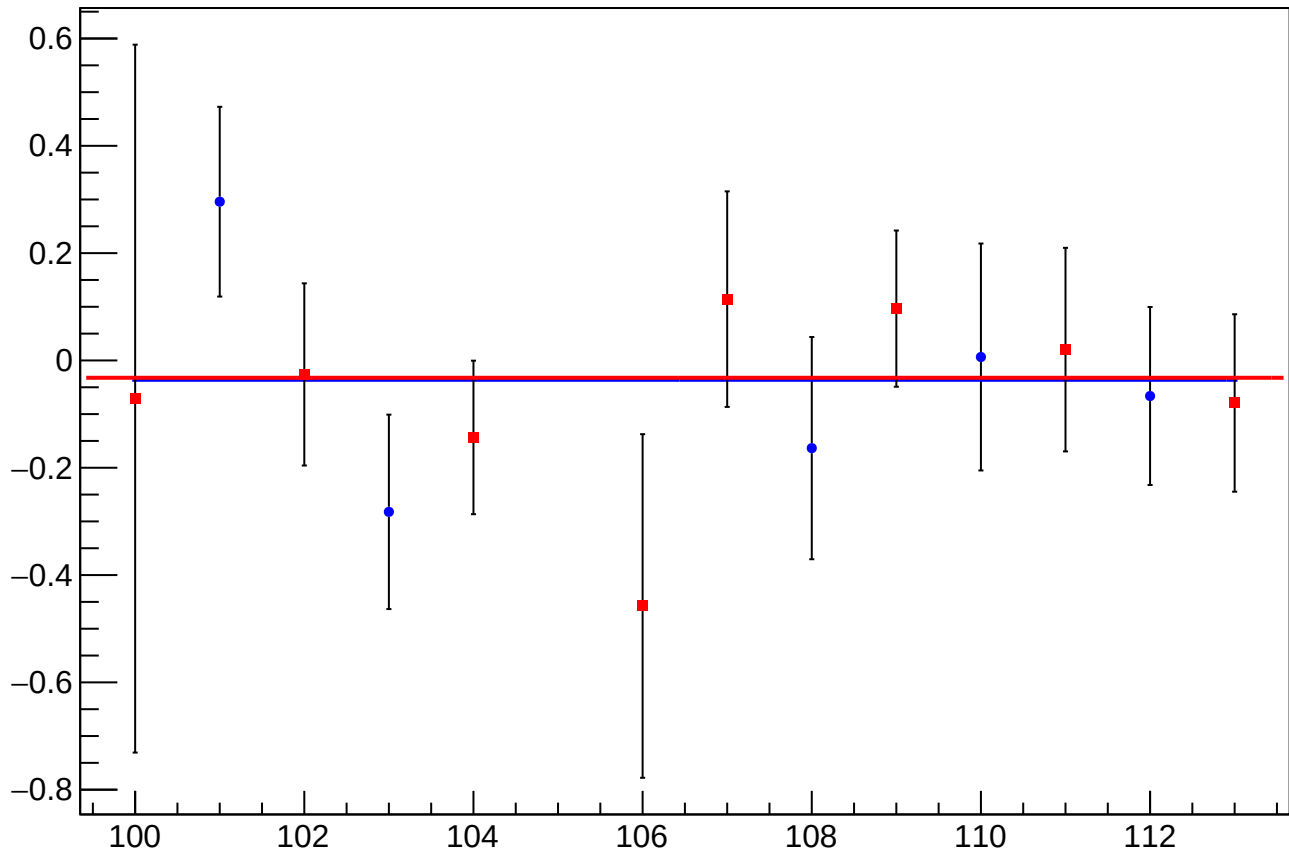
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 322588.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.036 \pm 0.083$   $\chi^2/\text{NDF}$ : 5.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.032 \pm 0.066$   $\chi^2/\text{NDF}$ : 3.8/7

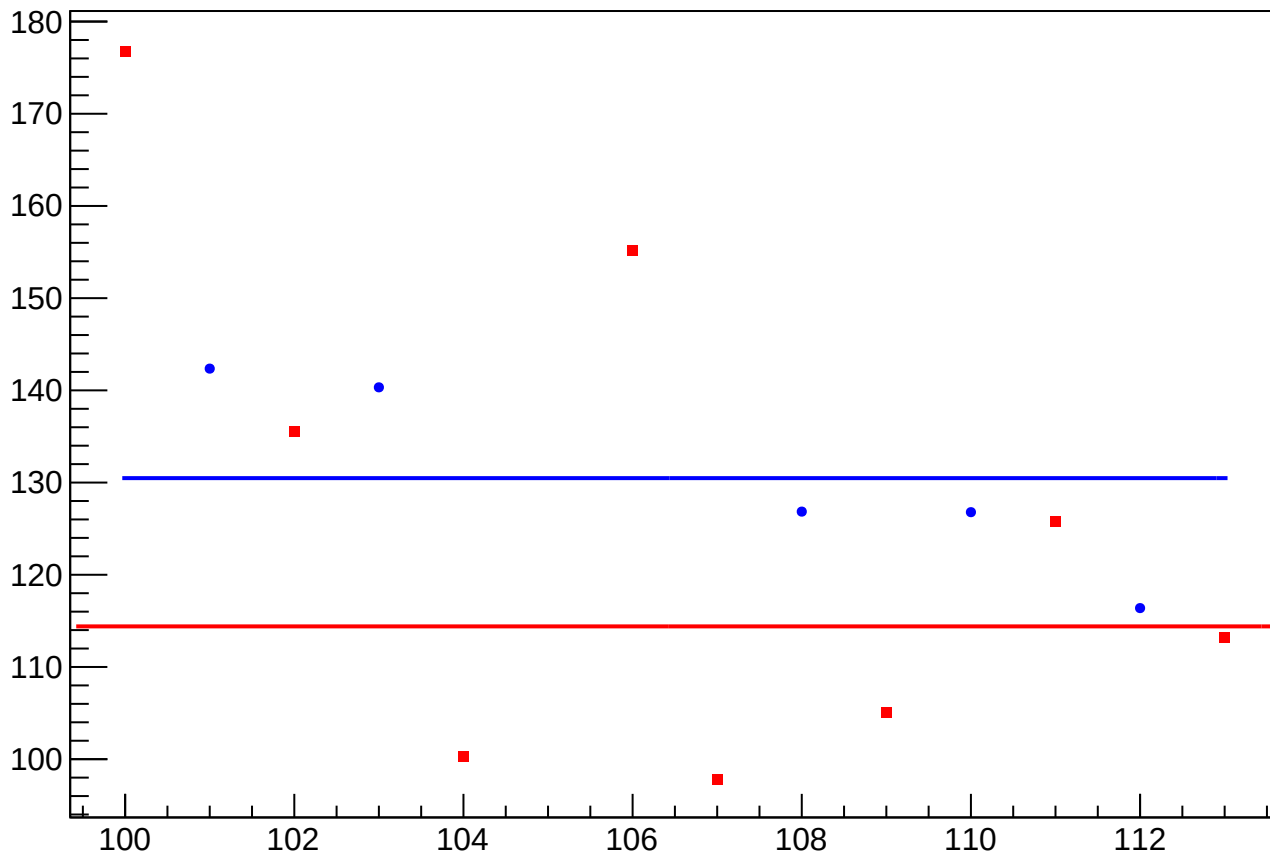
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.034 \pm 0.052$   $\chi^2/\text{NDF}$ : 9.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 130.482 $\pm$ 0.059  $\chi^2$ /NDF: 30599.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 114.402 $\pm$ 0.046  $\chi^2$ /NDF: 130039.1/7

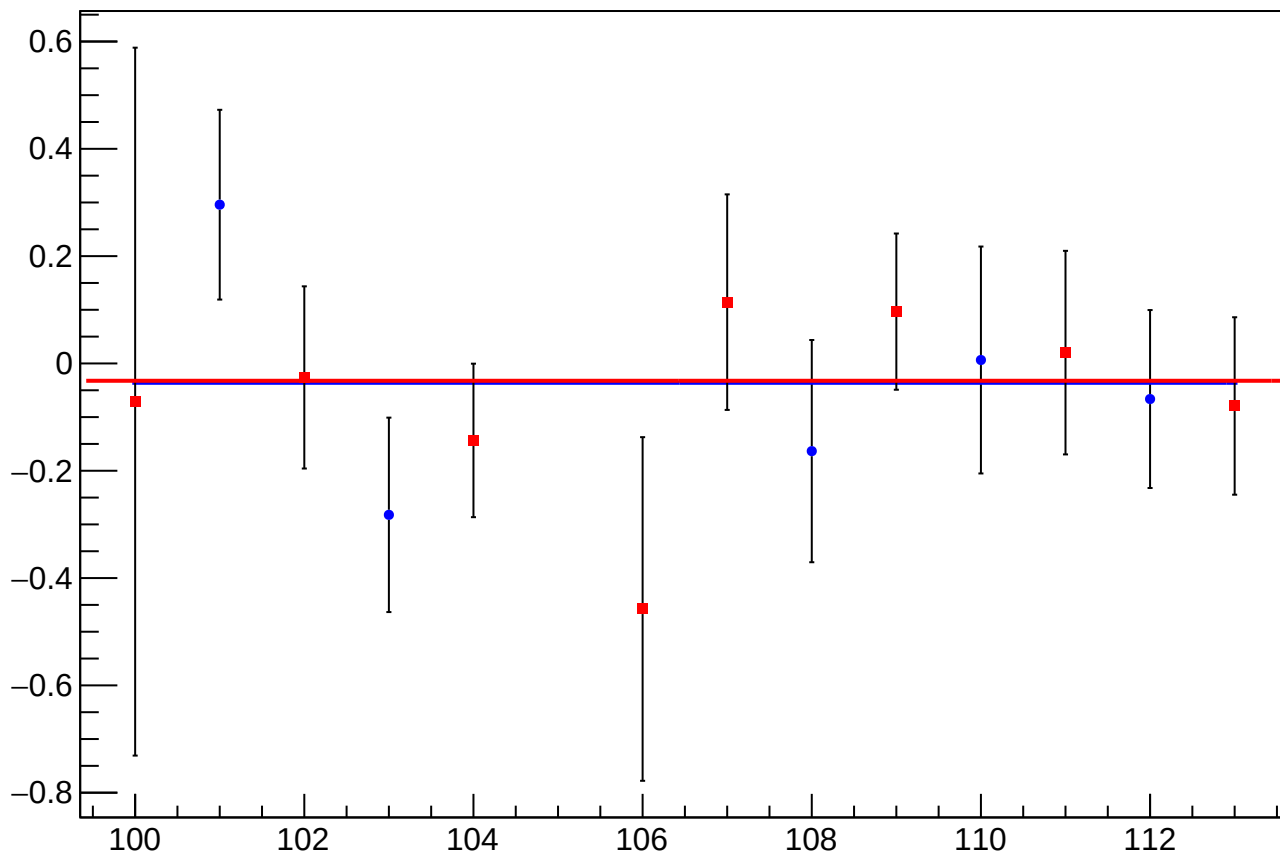
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.574 $\pm$ 0.036  $\chi^2$ /NDF: 206676.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.036 $\pm$ 0.083  $\chi^2$ /NDF: 5.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.032 $\pm$ 0.066  $\chi^2$ /NDF: 3.8/7

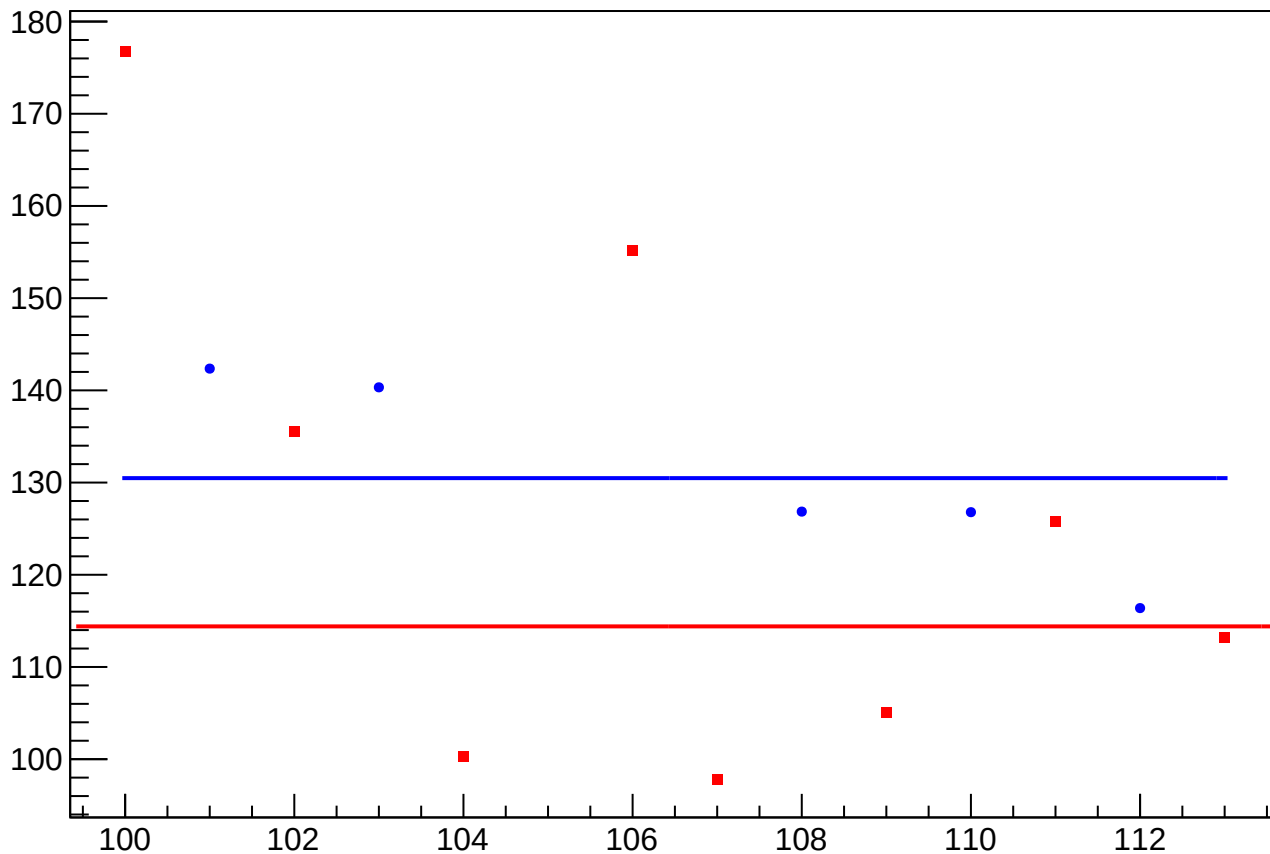
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.034 $\pm$ 0.052  $\chi^2$ /NDF: 9.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 130.482 $\pm$ 0.059  $\chi^2$ /NDF: 30599.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 114.402 $\pm$ 0.046  $\chi^2$ /NDF: 130039.1/7

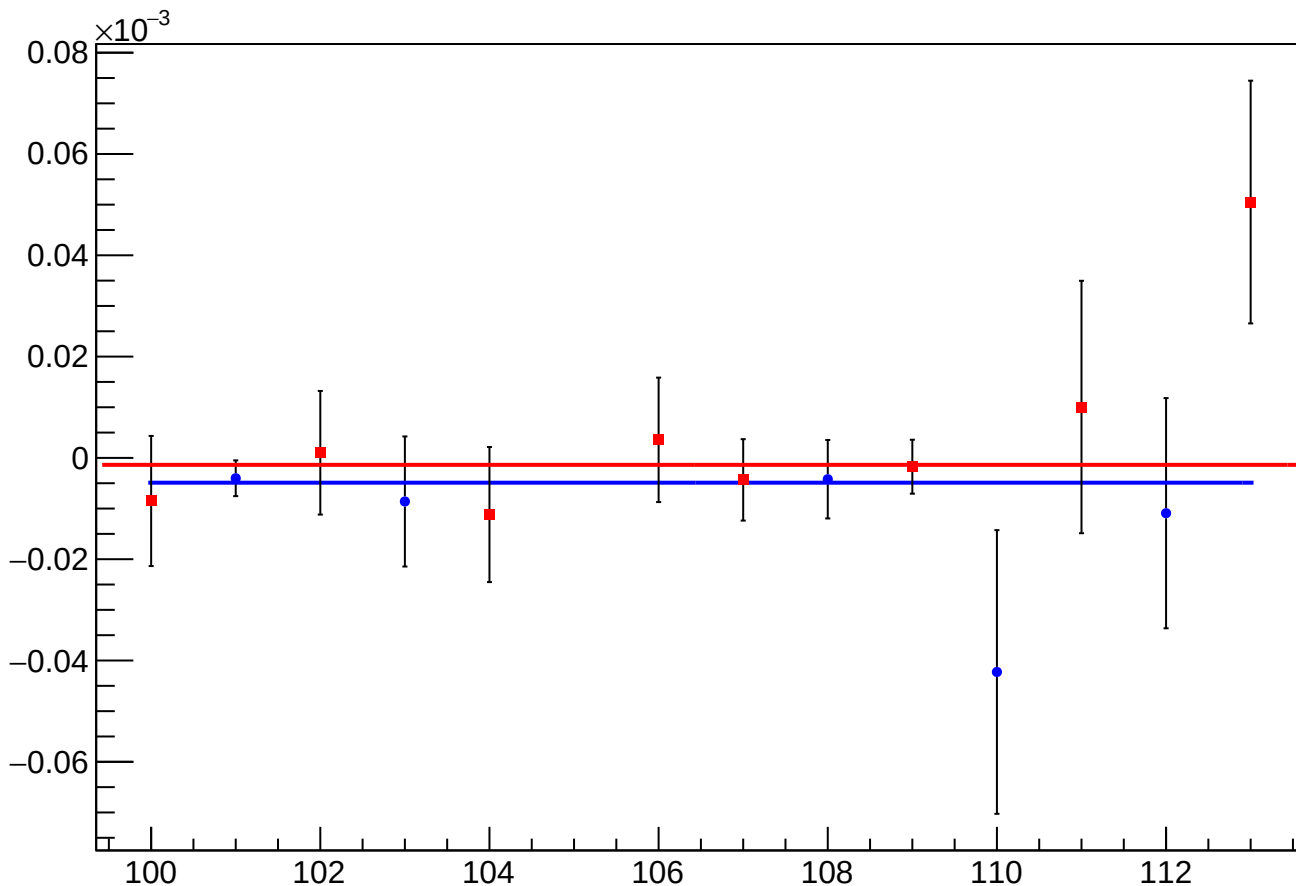
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.574 $\pm$ 0.036  $\chi^2$ /NDF: 206676.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.1/7

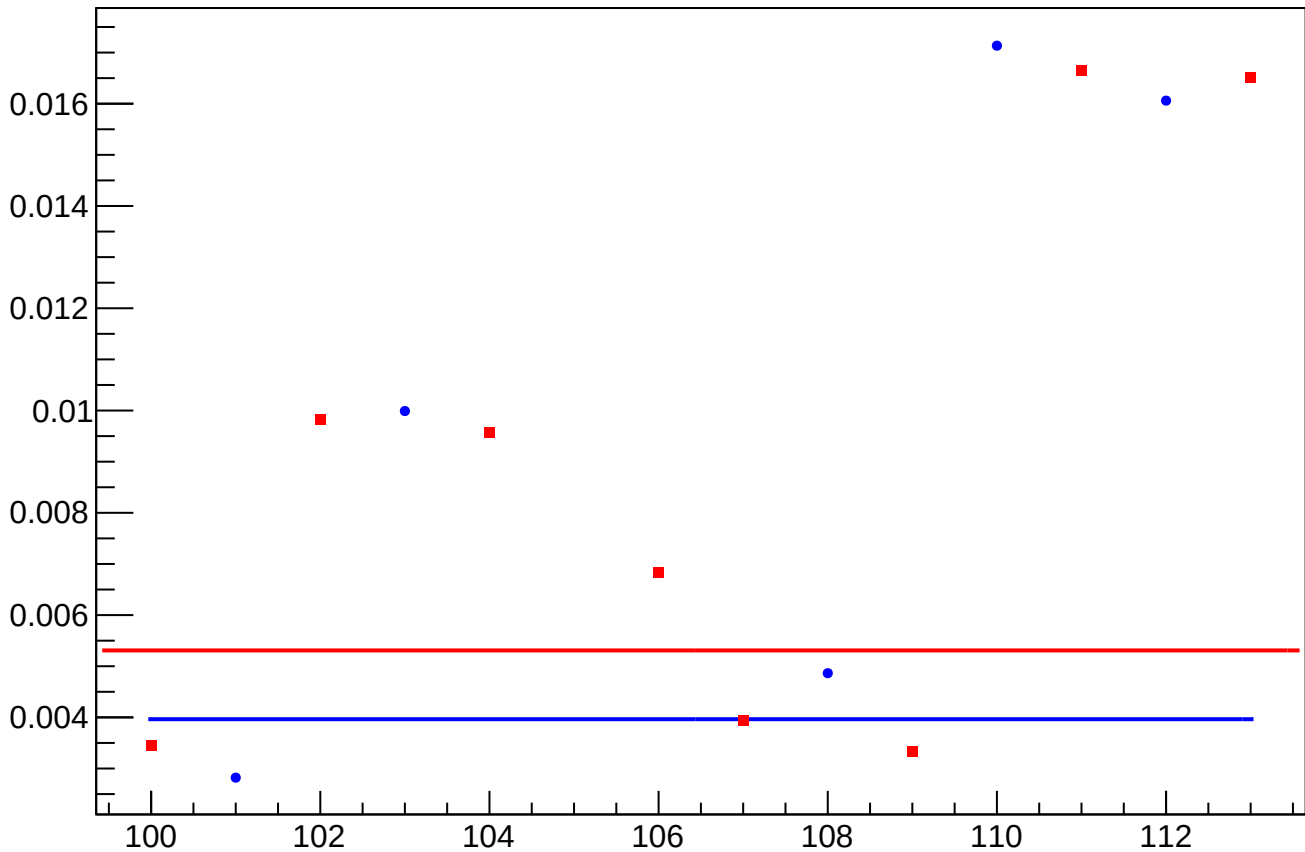
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 1686317.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.005 $\pm$ 0.000  $\chi^2$ /NDF: 1735650.6/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

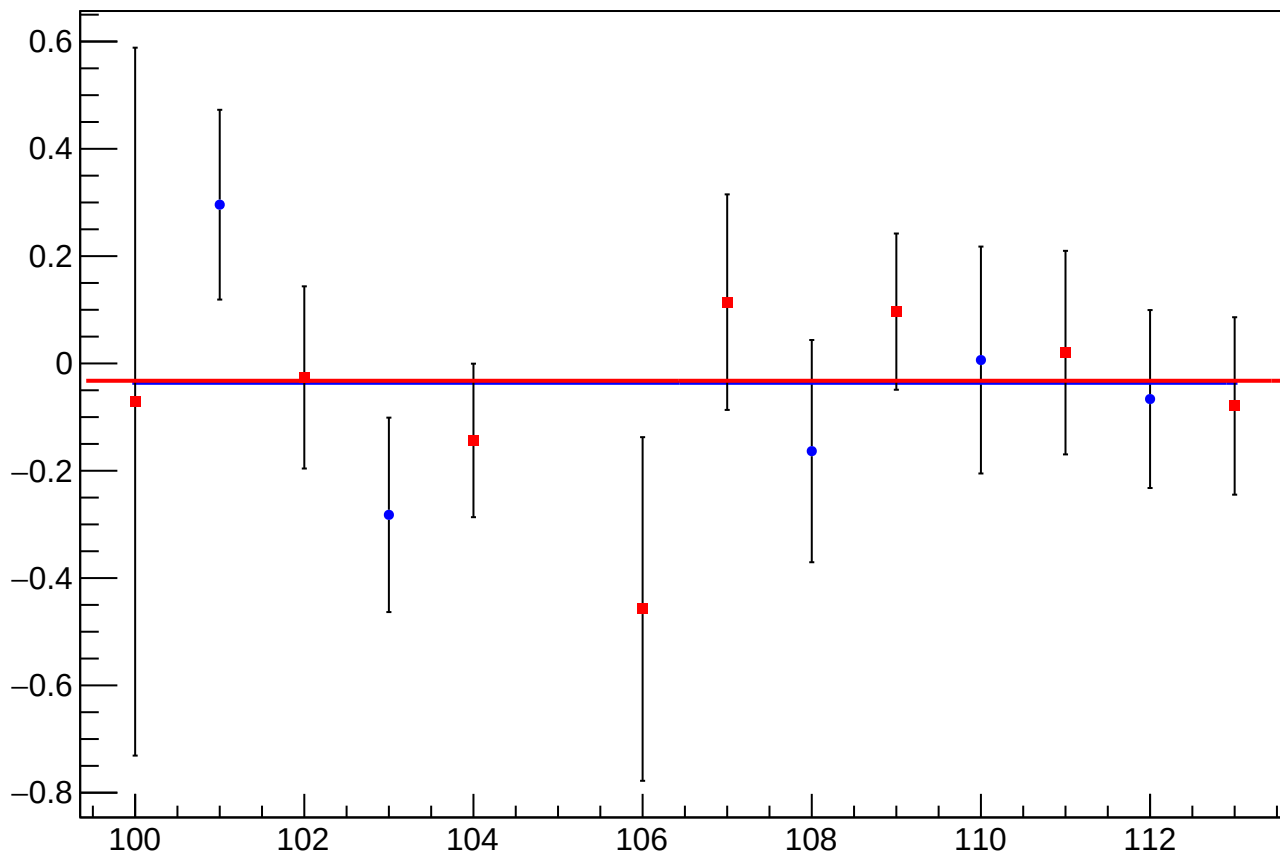
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.000  $\chi^2$ /NDF: 3585946.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_26\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.036 $\pm$ 0.083  $\chi^2$ /NDF: 5.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.032 $\pm$ 0.066  $\chi^2$ /NDF: 3.8/7

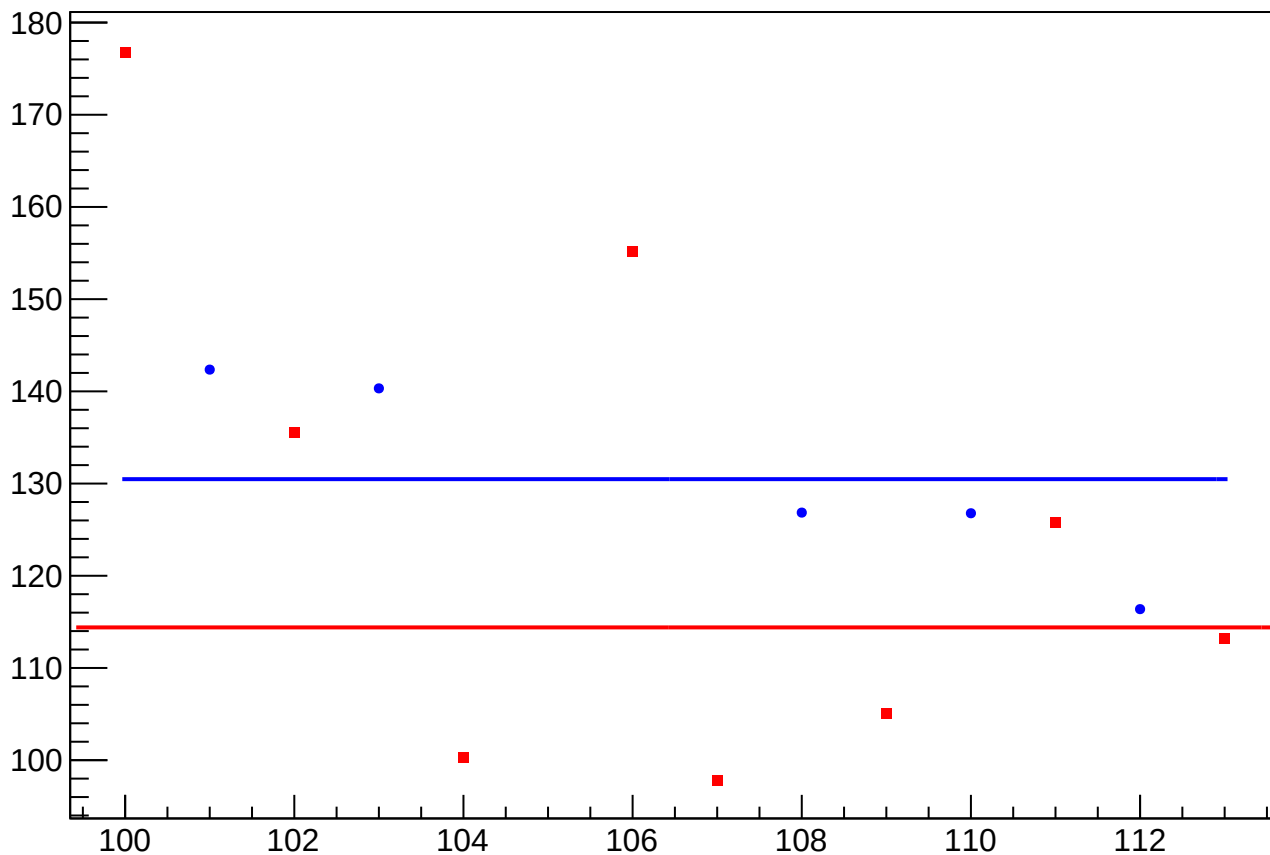
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.034 $\pm$ 0.052  $\chi^2$ /NDF: 9.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 130.478+/-0.059  $\chi^2/\text{NDF}$ : 30611.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 114.399+/-0.046  $\chi^2/\text{NDF}$ : 130029.0/7

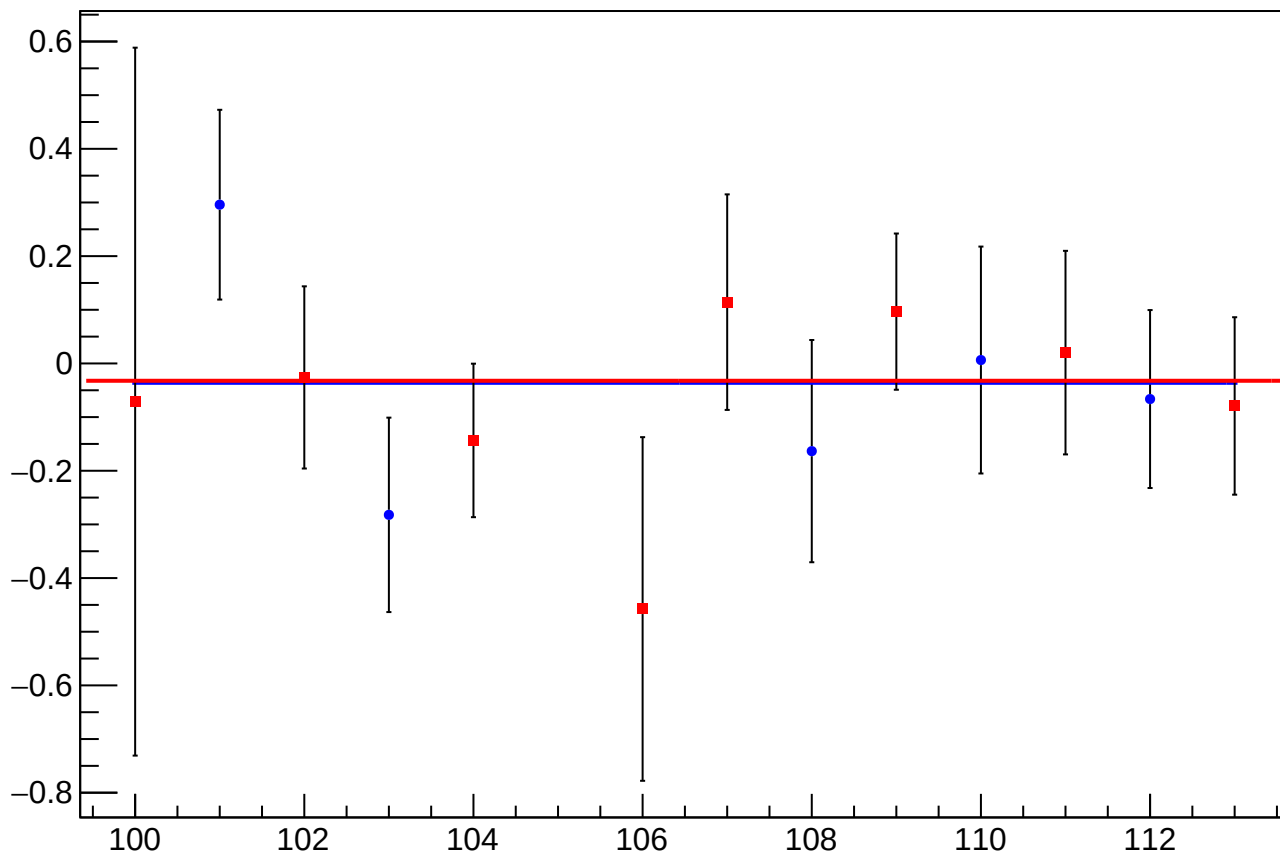
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 120.571+/-0.036  $\chi^2/\text{NDF}$ : 206673.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.036 $\pm$ 0.083  $\chi^2$ /NDF: 5.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.032 $\pm$ 0.066  $\chi^2$ /NDF: 3.8/7

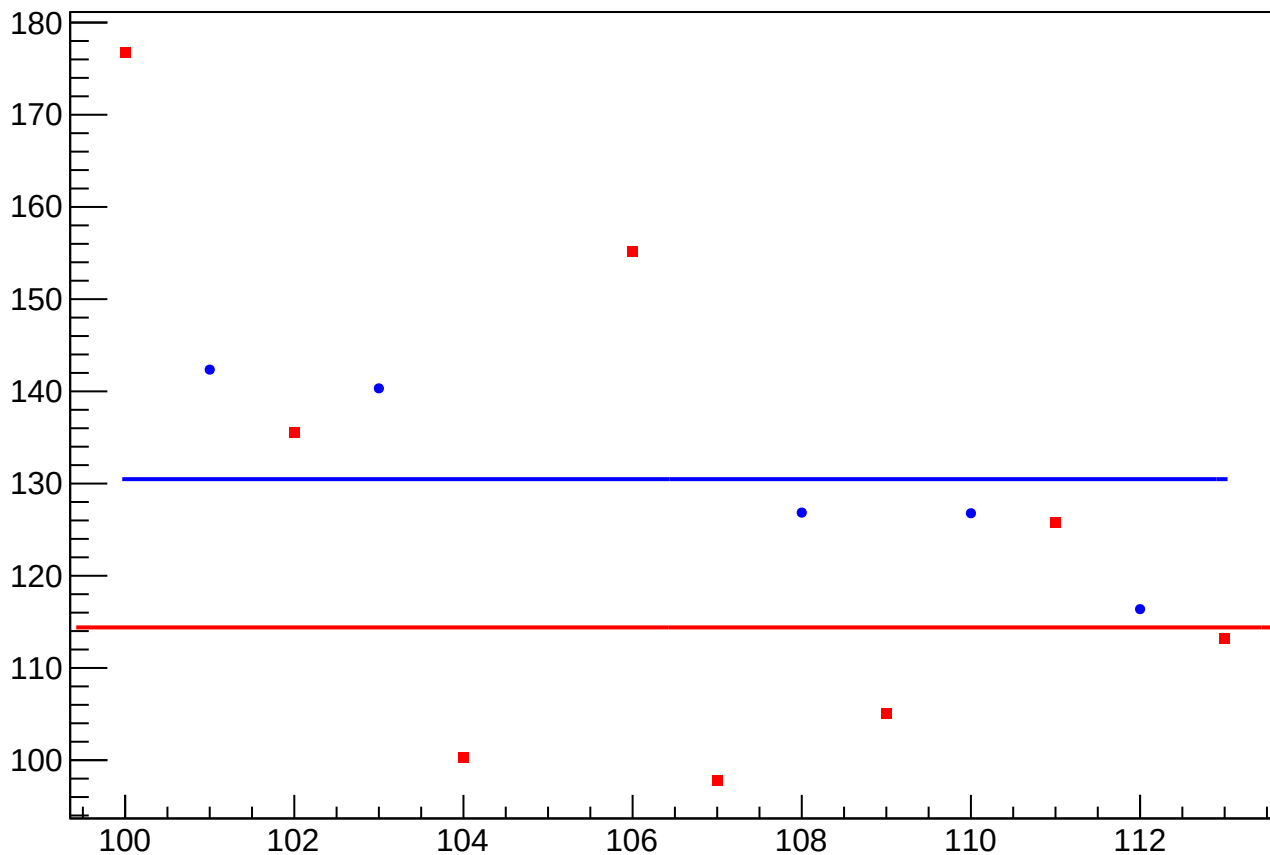
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.034 $\pm$ 0.052  $\chi^2$ /NDF: 9.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 130.478+/-0.059  $\chi^2/\text{NDF}$ : 30611.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 114.399+/-0.046  $\chi^2/\text{NDF}$ : 130029.0/7

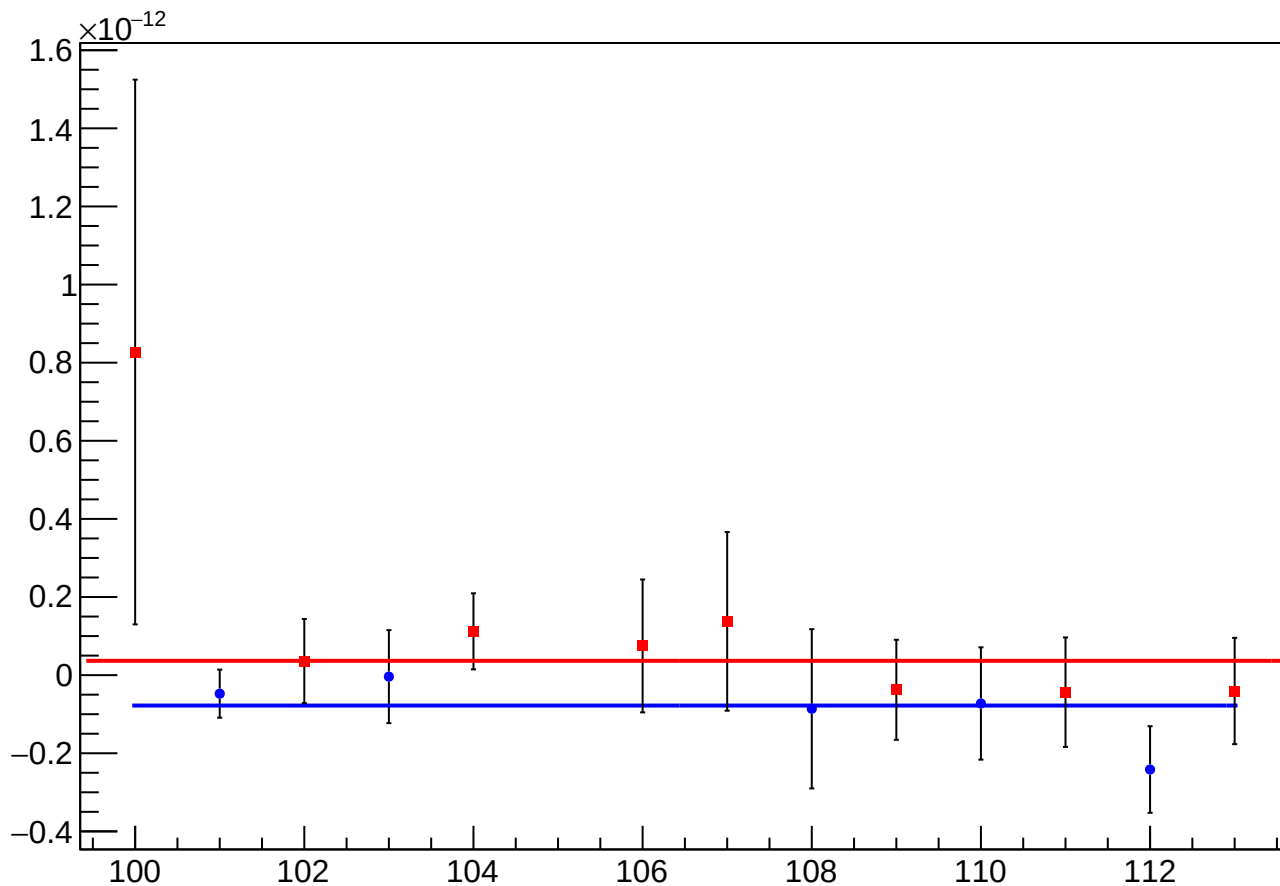
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 120.571+/-0.036  $\chi^2/\text{NDF}$ : 206673.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.1/7

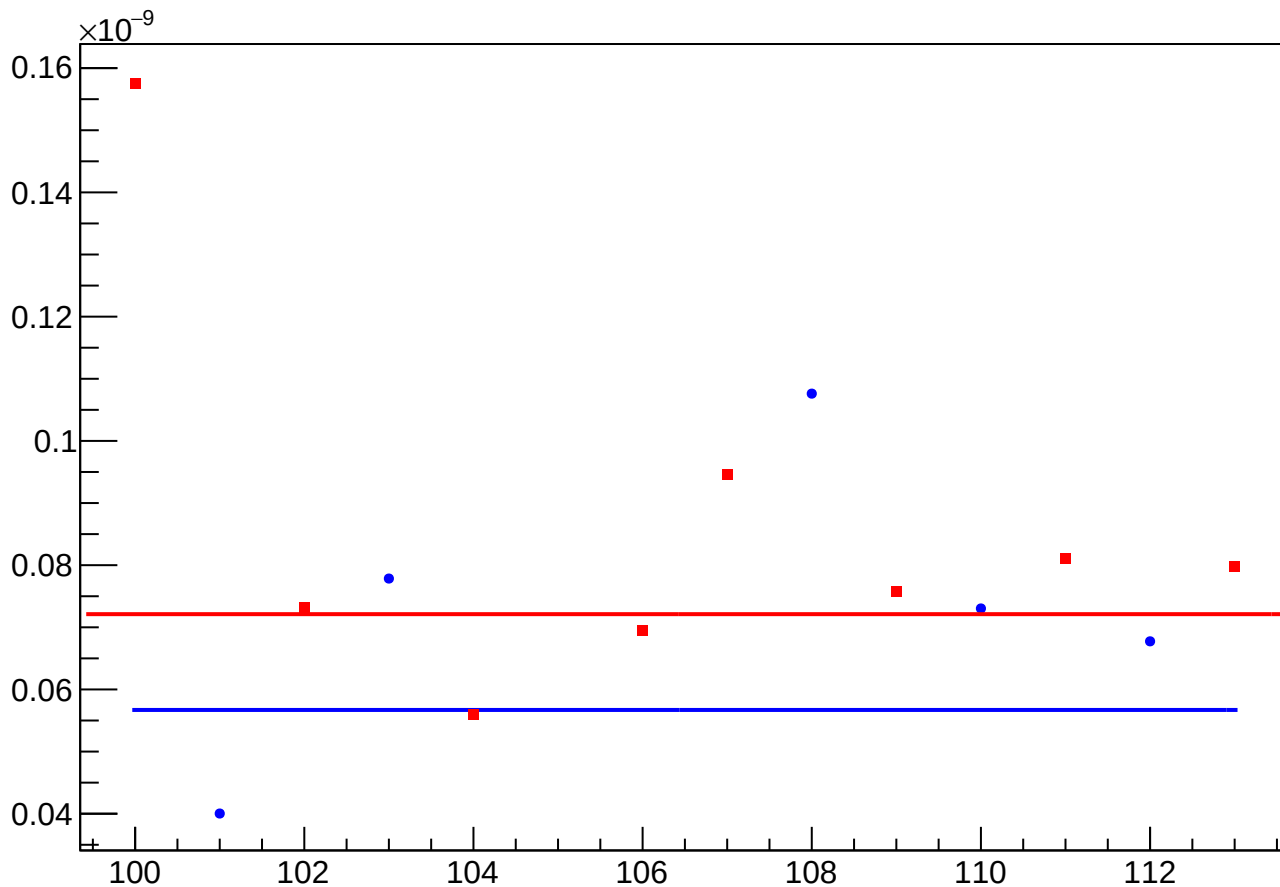
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 380461.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 121261.9/7

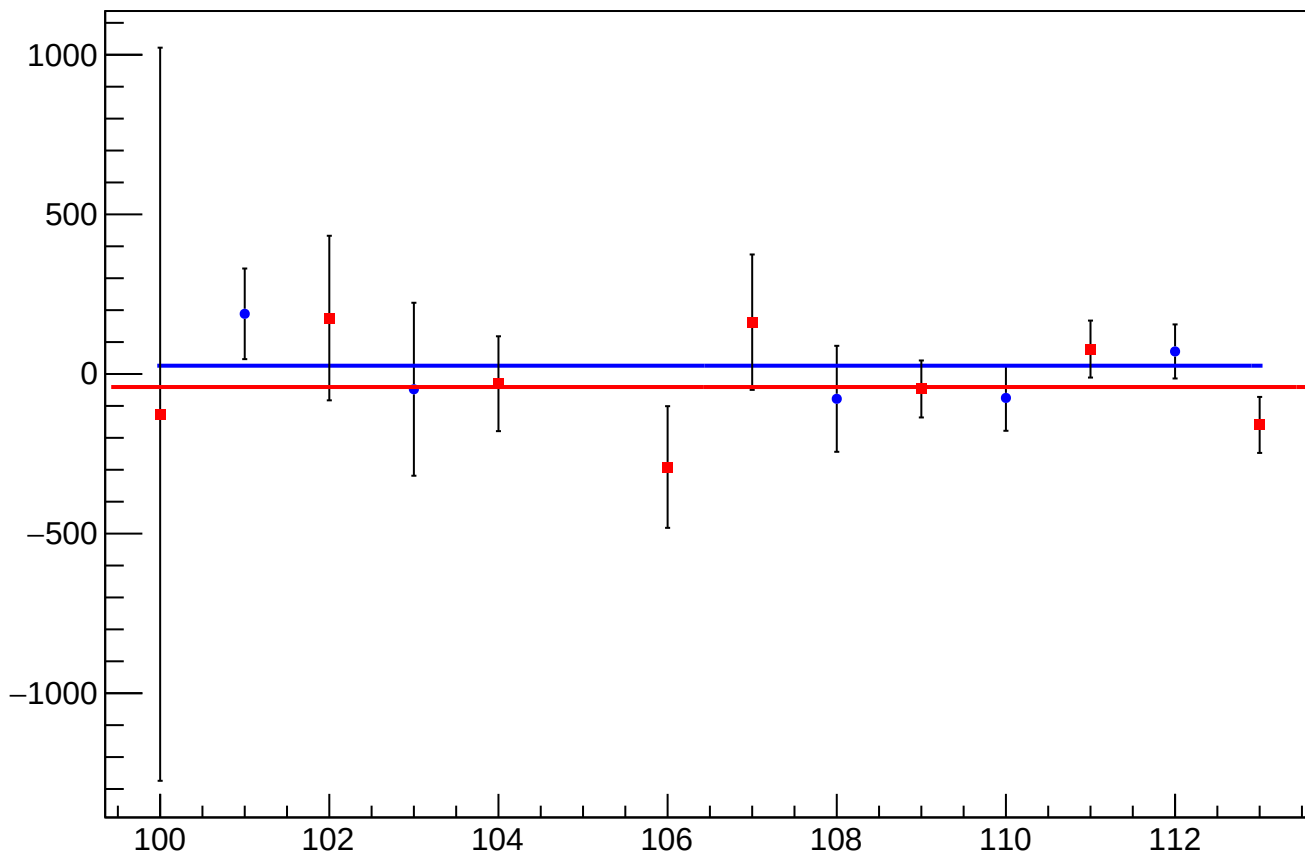
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 608193.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_avg\_mean vs Slug



Right In: 25.972 $\pm$ 54.769  $\chi^2$ /NDF: 3.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -40.793 $\pm$ 45.087  $\chi^2$ /NDF: 7.0/7

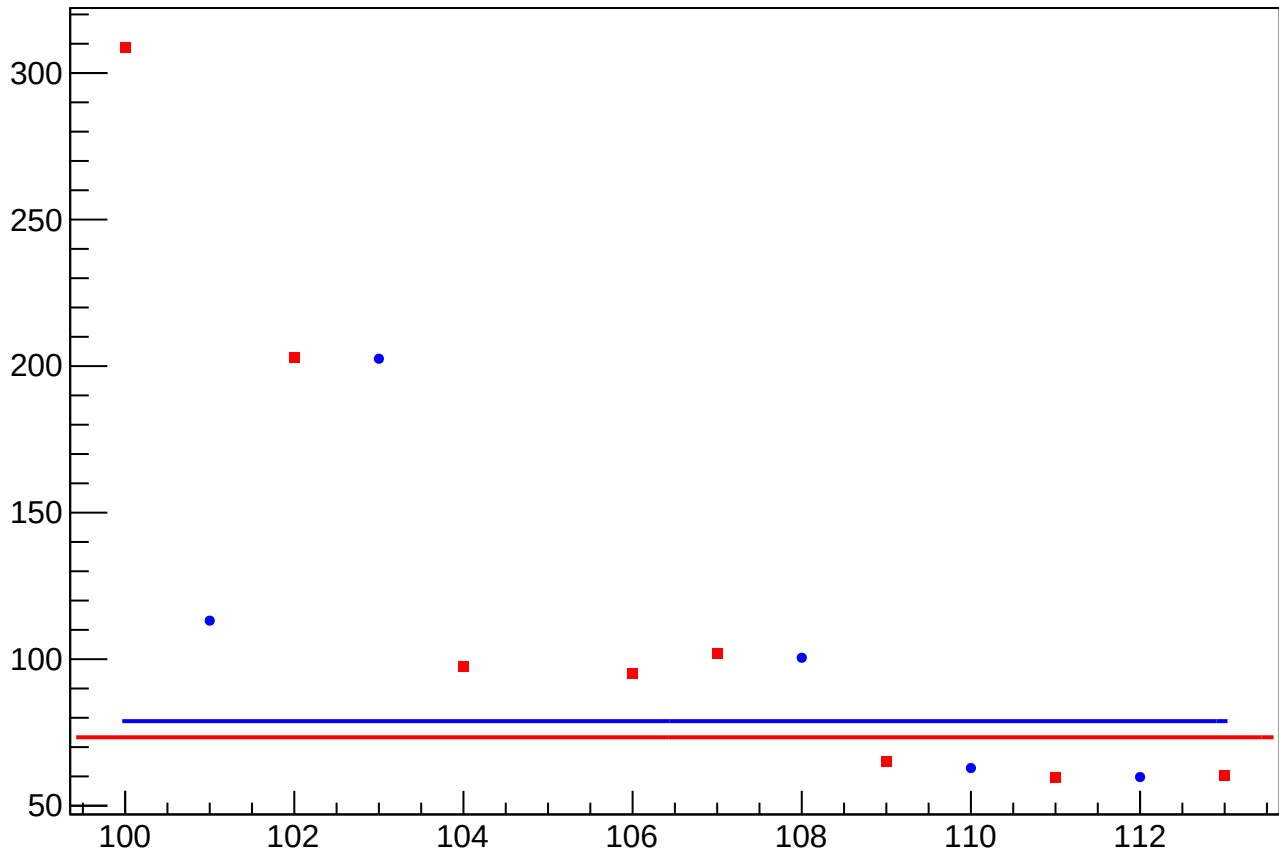
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -13.824 $\pm$ 34.809  $\chi^2$ /NDF: 10.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 78.860+/-0.039  $\chi^2/\text{NDF}$ : 717135.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73.348+/-0.032  $\chi^2/\text{NDF}$ : 811215.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

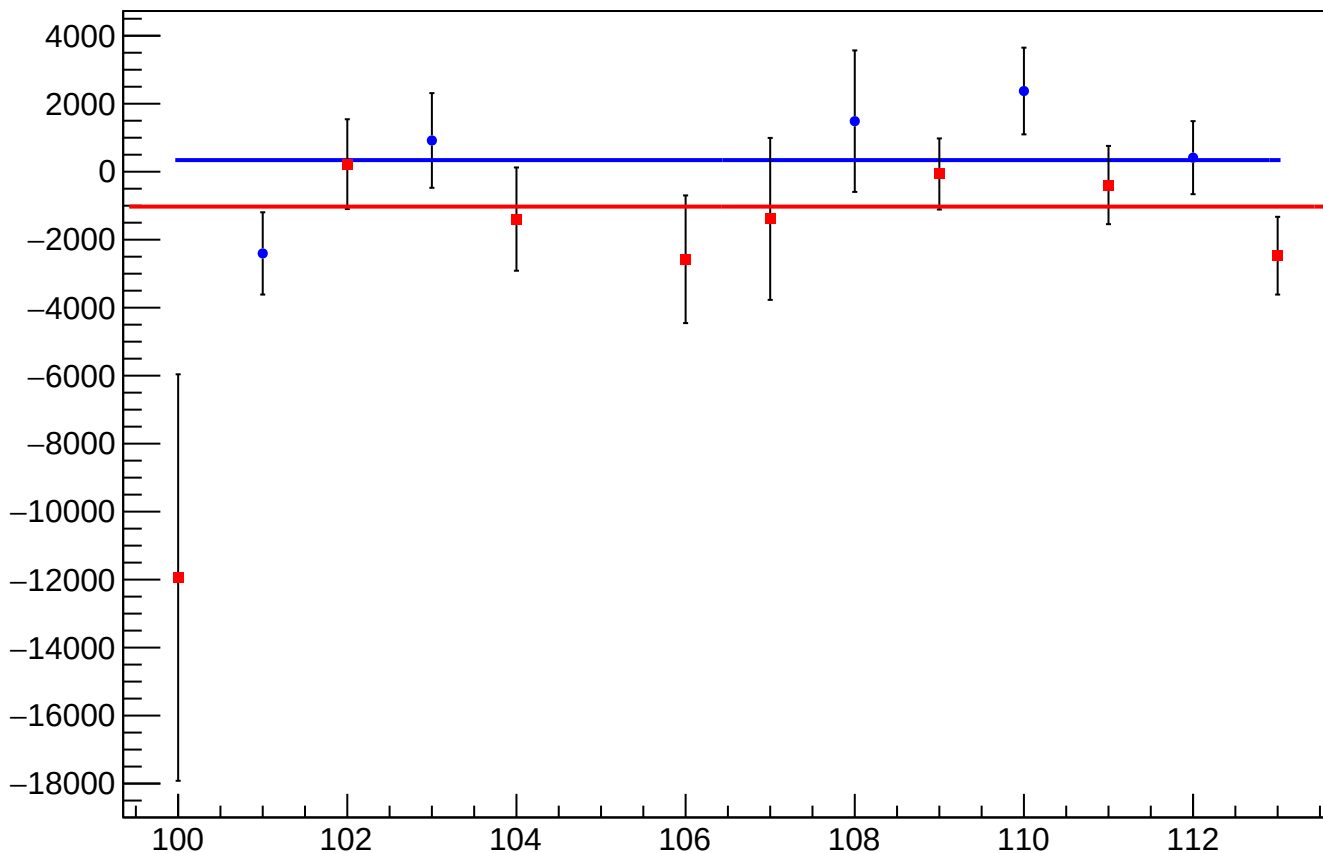
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.575+/-0.025  $\chi^2/\text{NDF}$ : 1540426.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_37\_avg\_reg\_correction\_mean vs Slug



Right In: 341.069+/-586.185  $\chi^2/\text{NDF}$ : 8.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1026.762+/-504.589  $\chi^2/\text{NDF}$ : 7.7/7

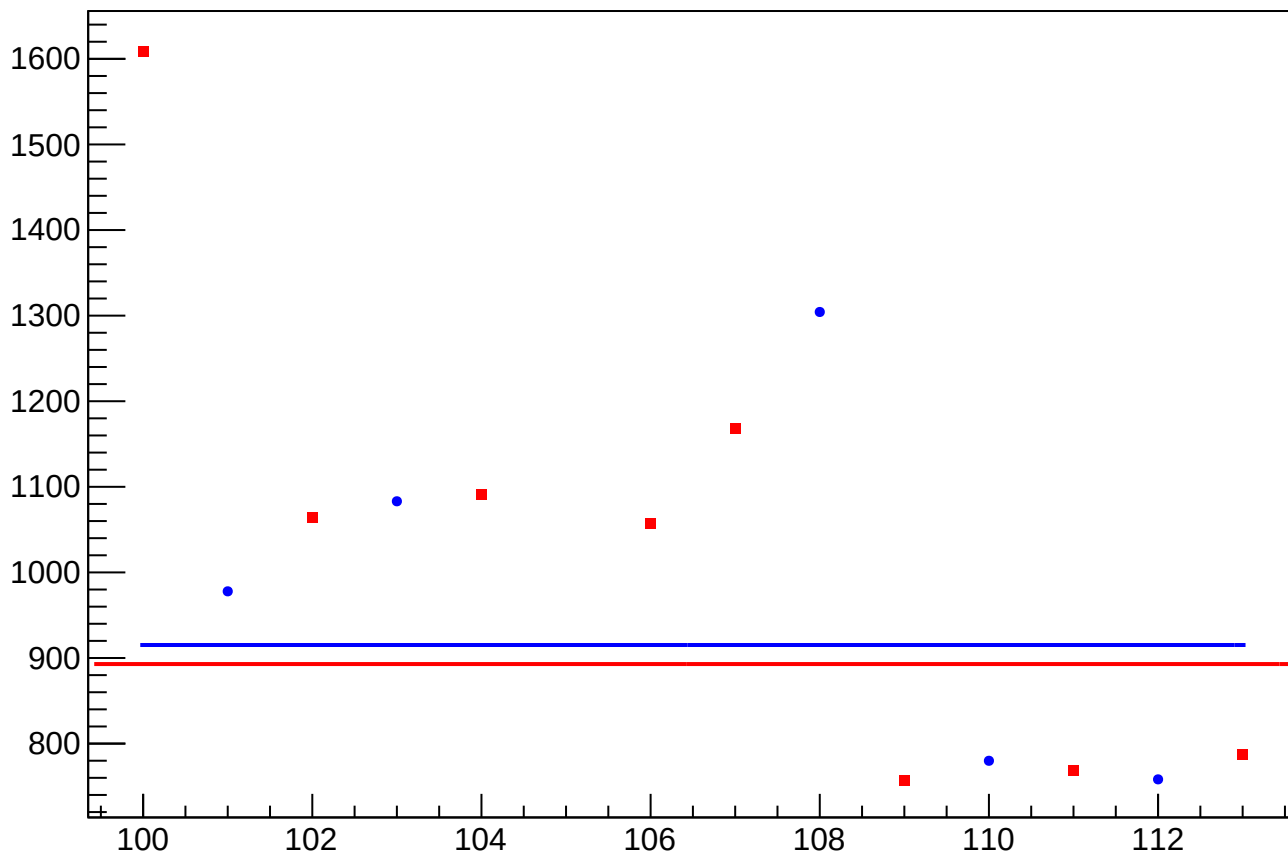
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -444.599+/-382.420  $\chi^2/\text{NDF}$ : 19.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_reg\_correction\_rms vs Slug



Right In: 915.198+/-0.414  $\chi^2/\text{NDF}$ : 169524.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 892.933+/-0.357  $\chi^2/\text{NDF}$ : 212465.6/7

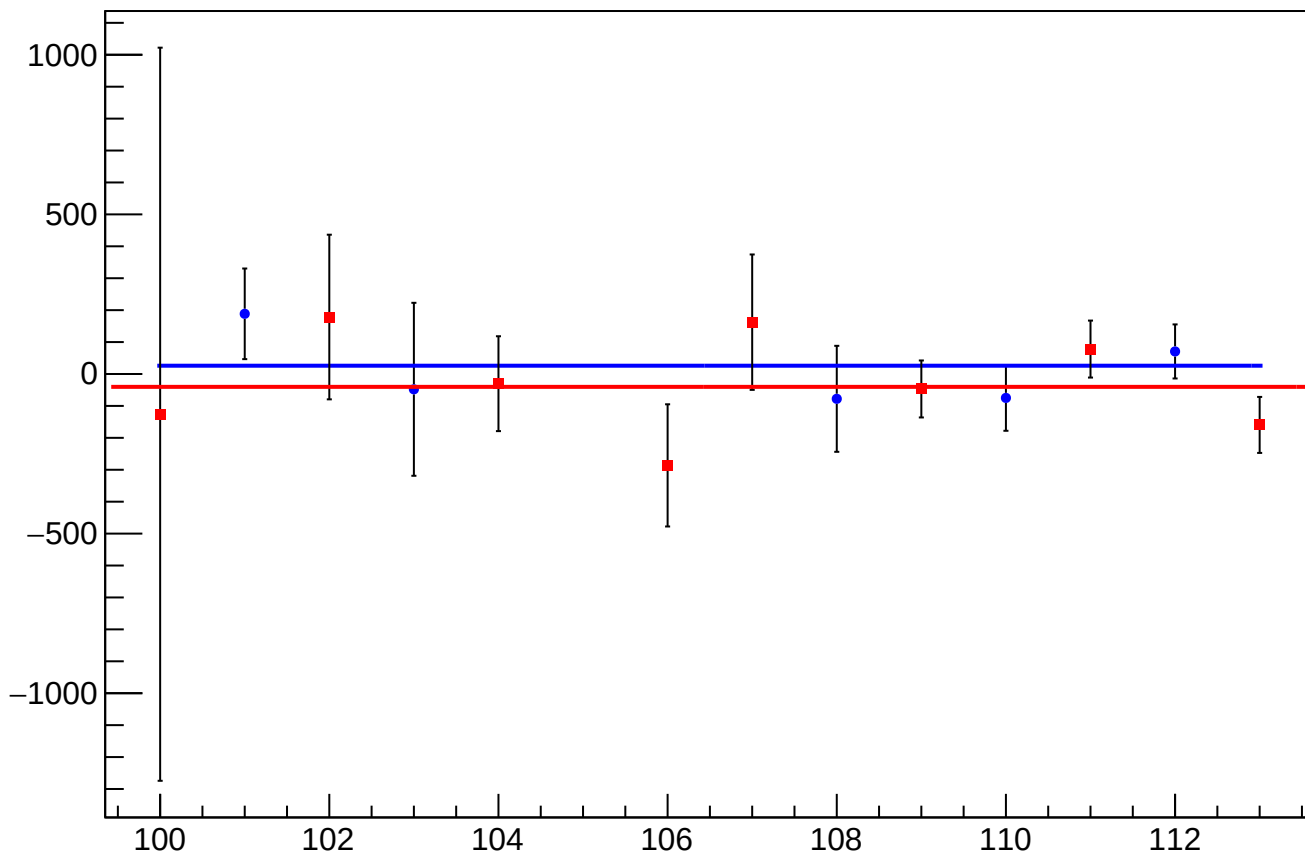
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 902.409+/-0.270  $\chi^2/\text{NDF}$ : 383647.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_37\_avg\_mean vs Slug



Right In: 25.958+/-54.769  $\chi^2/\text{NDF}$ : 3.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -40.291+/-45.098  $\chi^2/\text{NDF}$ : 6.9/7

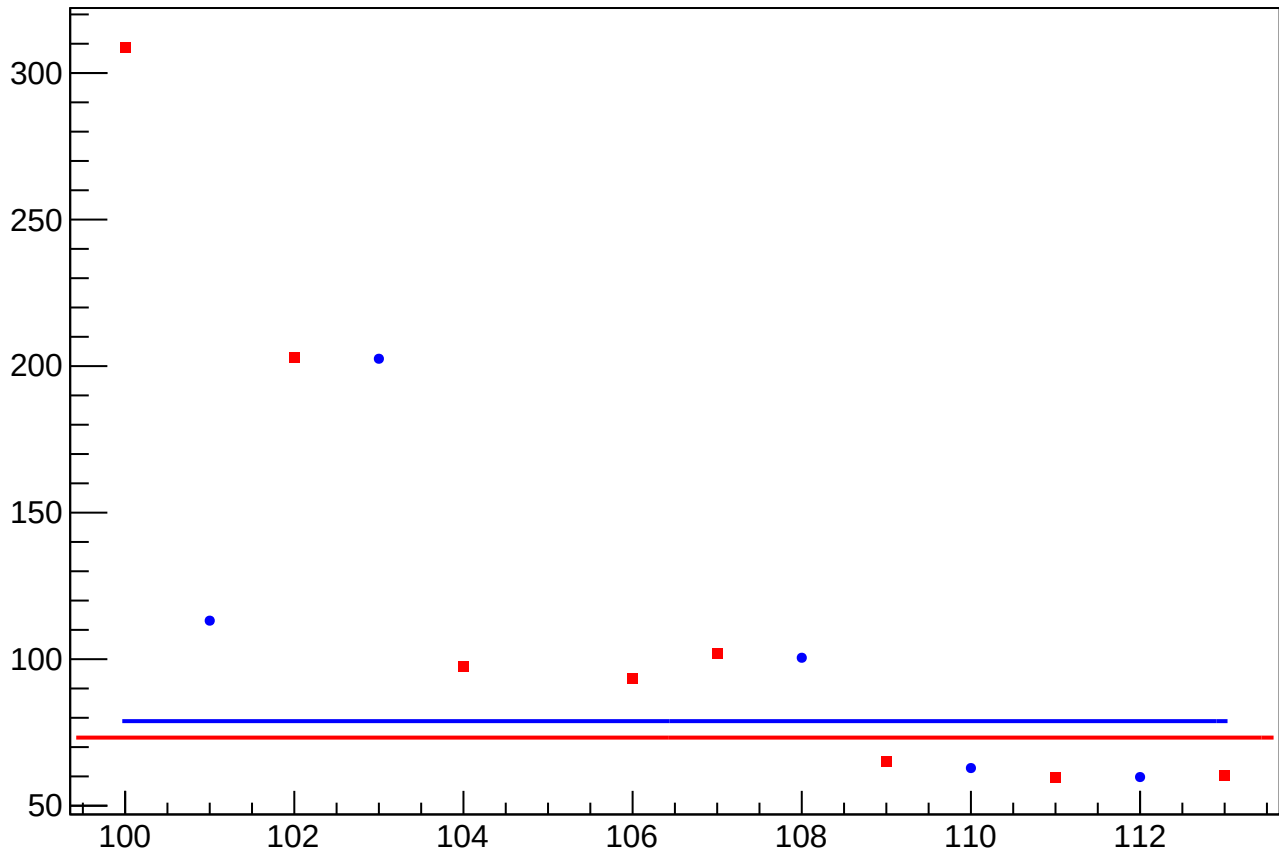
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.522+/-34.814  $\chi^2/\text{NDF}$ : 10.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 78.860 $\pm$ 0.039  $\chi^2$ /NDF: 717137.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 73.243 $\pm$ 0.032  $\chi^2$ /NDF: 807327.5/7

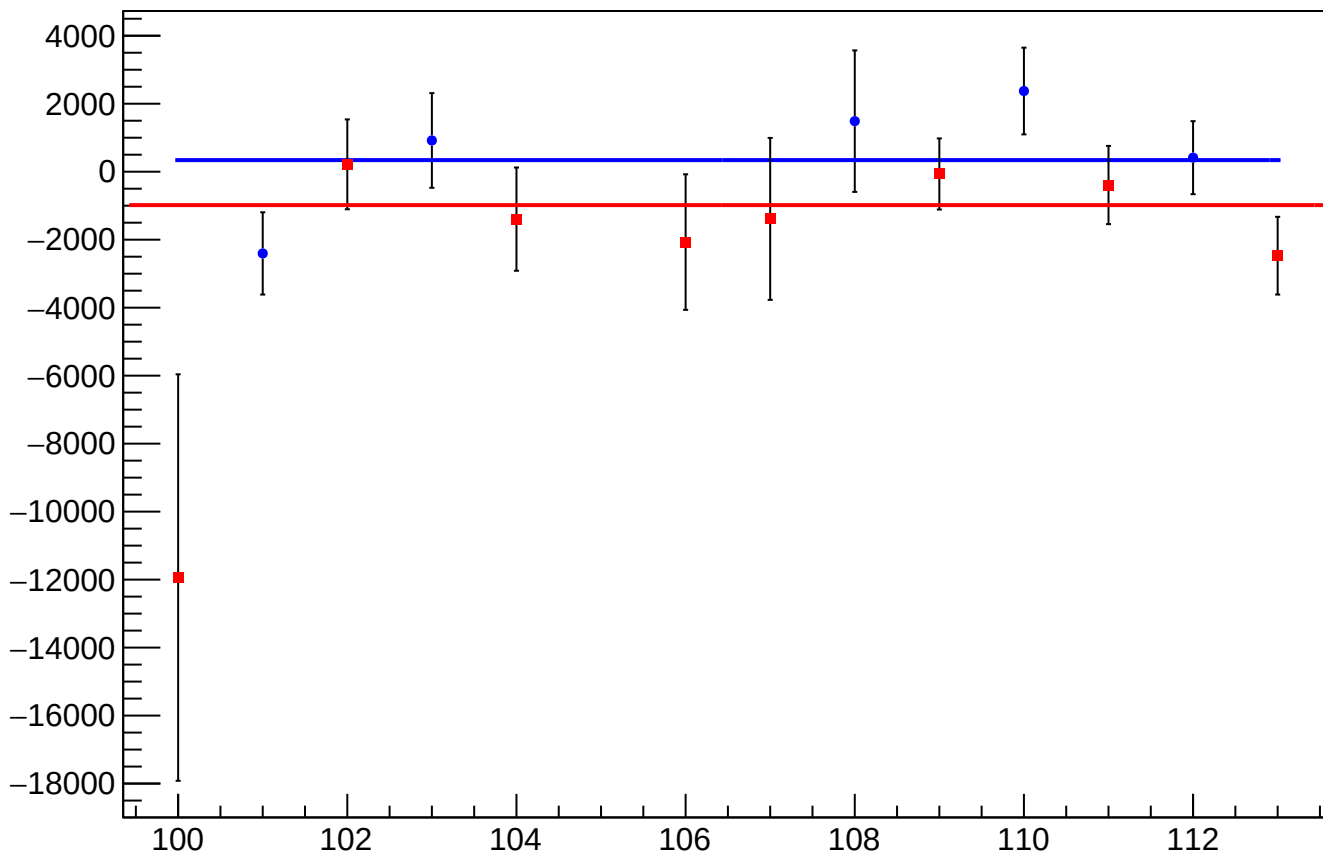
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 75.513 $\pm$ 0.025  $\chi^2$ /NDF: 1537004.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_cor\_correction\_mean vs Slug



Right In: 341.122+/-586.196  $\chi^2/\text{NDF}$ : 8.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -982.682+/-506.721  $\chi^2/\text{NDF}$ : 7.3/7

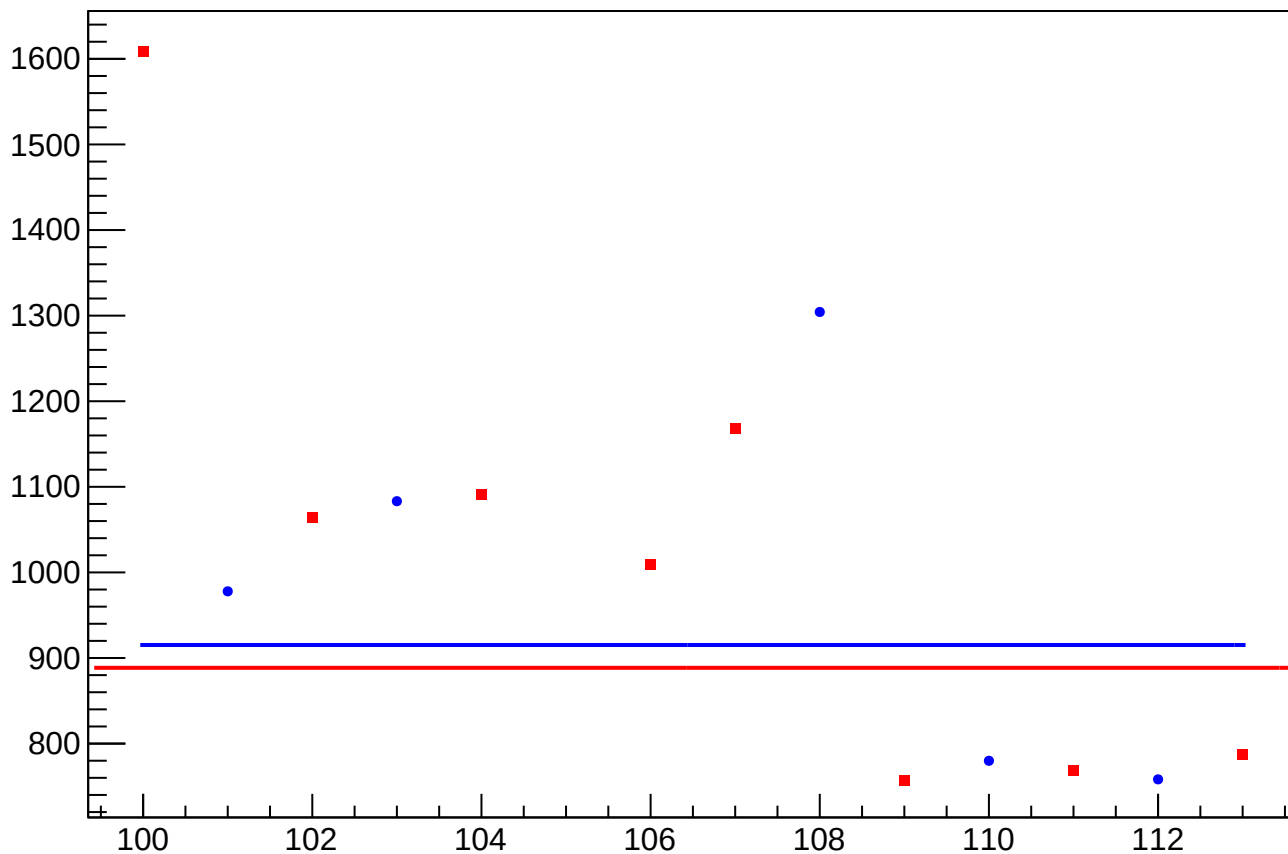
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -416.539+/-383.349  $\chi^2/\text{NDF}$ : 18.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_cor\_correction\_rms vs Slug



Right In: 915.211+/-0.415  $\chi^2/\text{NDF}$ : 169556.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 888.544+/-0.358  $\chi^2/\text{NDF}$ : 204034.9/7

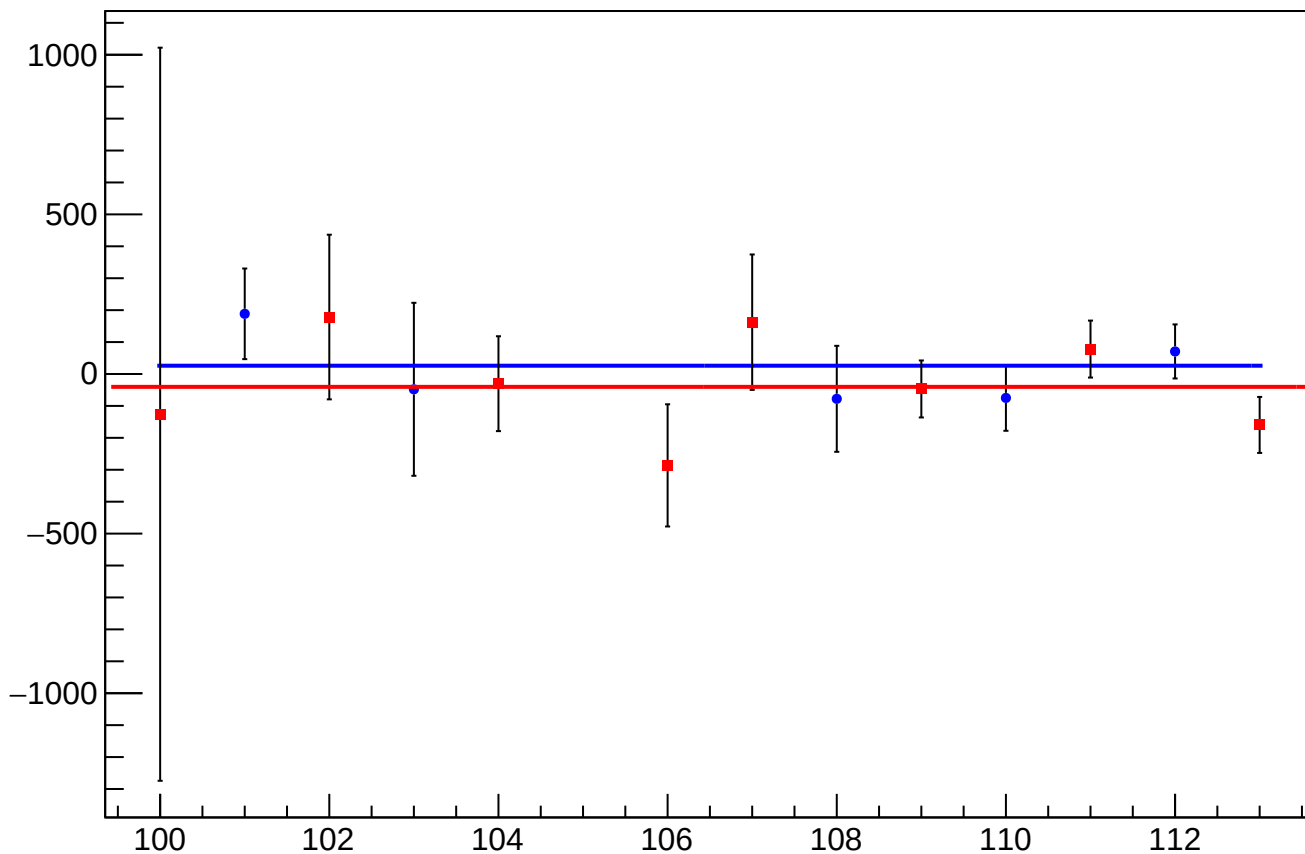
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 899.948+/-0.271  $\chi^2/\text{NDF}$ : 375960.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_avg\_mean vs Slug



Right In: 25.958 $\pm$ 54.769  $\chi^2$ /NDF: 3.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -40.291 $\pm$ 45.098  $\chi^2$ /NDF: 6.9/7

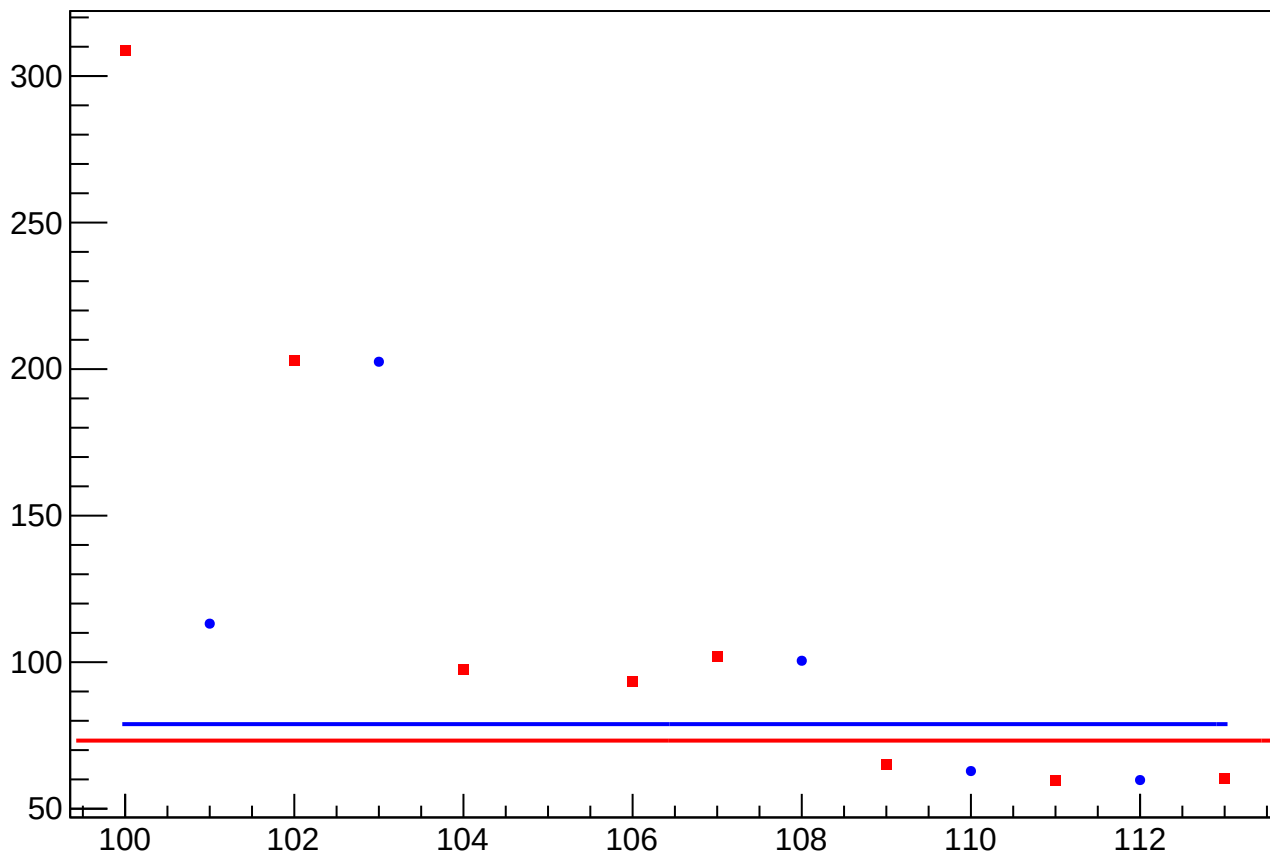
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -13.522 $\pm$ 34.814  $\chi^2$ /NDF: 10.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 78.860 $\pm$ 0.039  $\chi^2$ /NDF: 717137.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 73.243 $\pm$ 0.032  $\chi^2$ /NDF: 807327.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

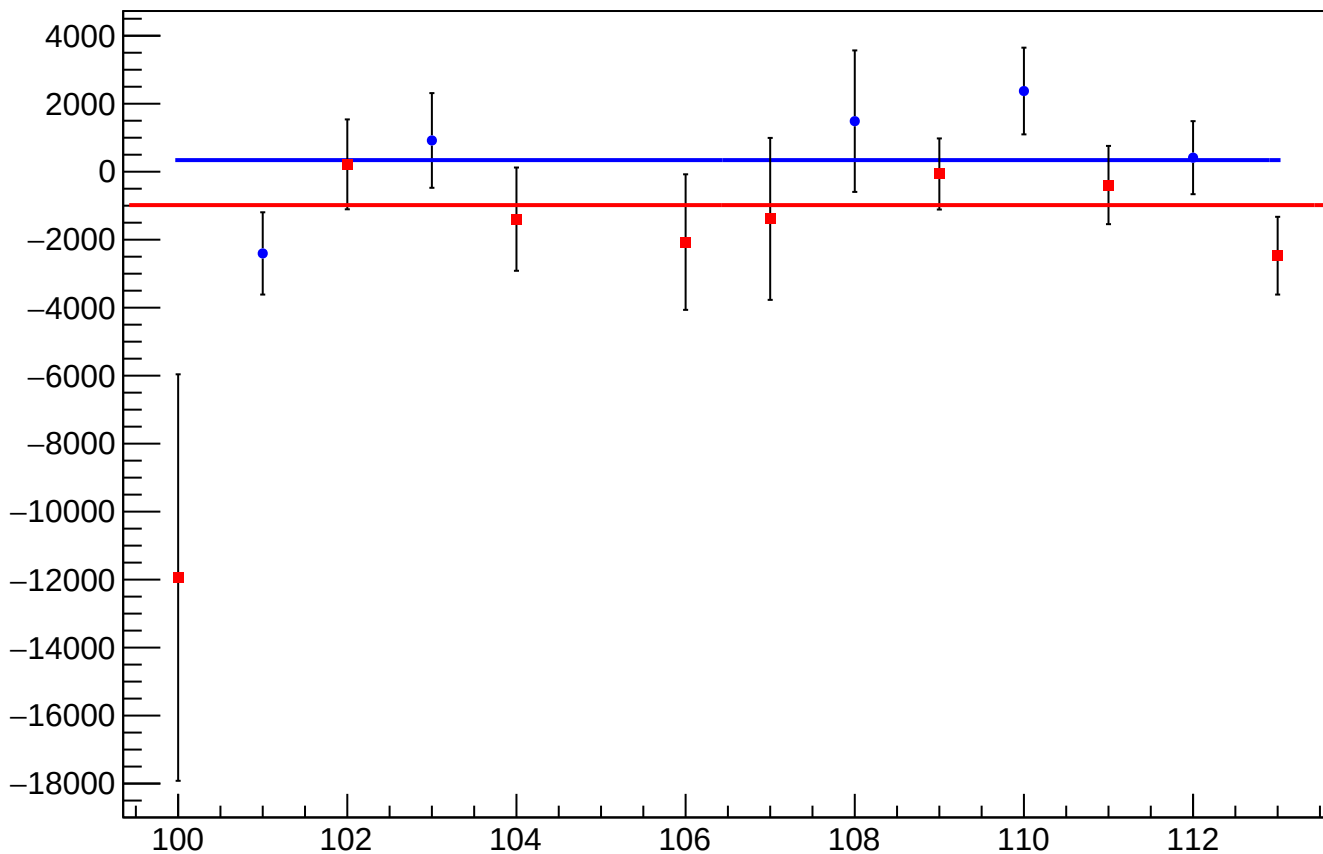
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 75.513 $\pm$ 0.025  $\chi^2$ /NDF: 1537004.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 341.122+/-586.196  $\chi^2/\text{NDF}$ : 8.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -982.682+/-506.721  $\chi^2/\text{NDF}$ : 7.3/7

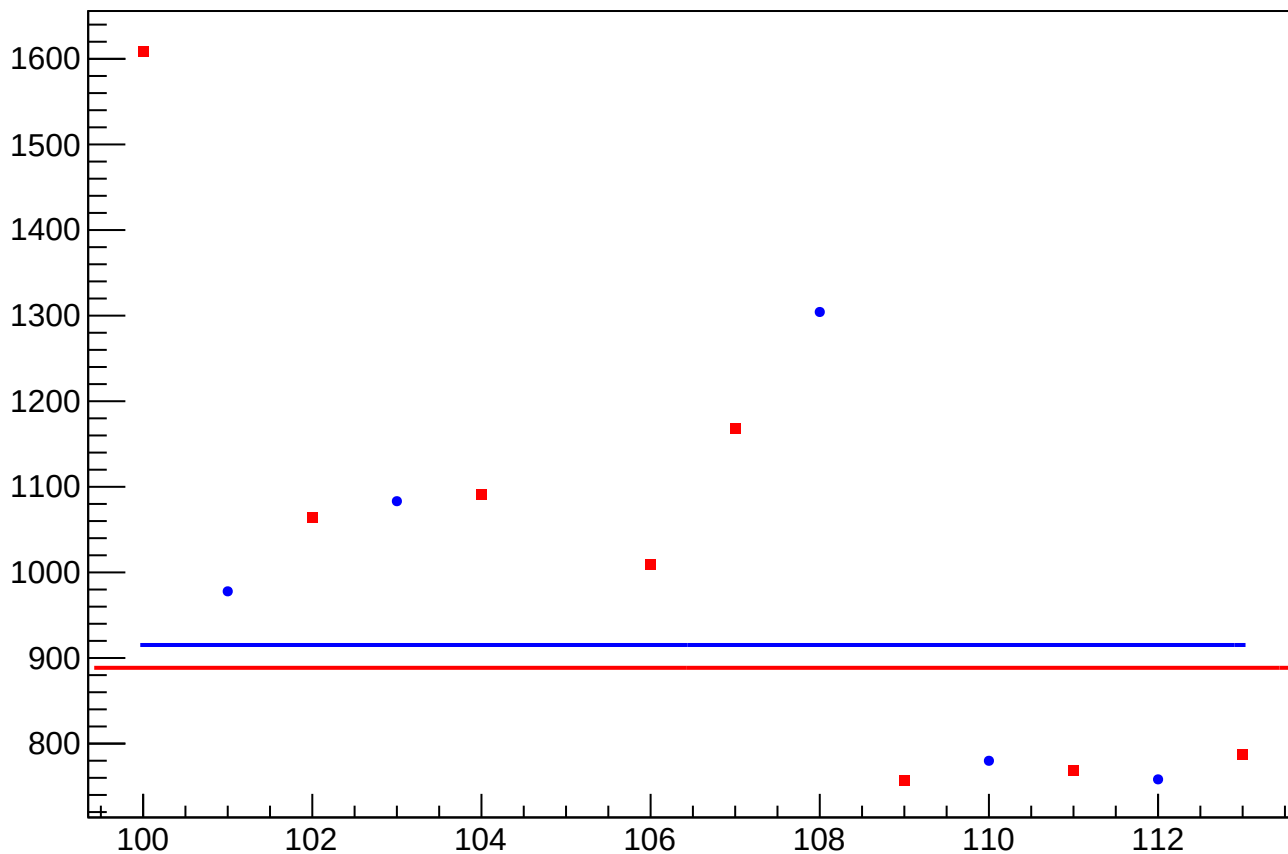
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -416.539+/-383.349  $\chi^2/\text{NDF}$ : 18.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 915.211+/-0.415  $\chi^2/\text{NDF}$ : 169556.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 888.544+/-0.358  $\chi^2/\text{NDF}$ : 204034.9/7

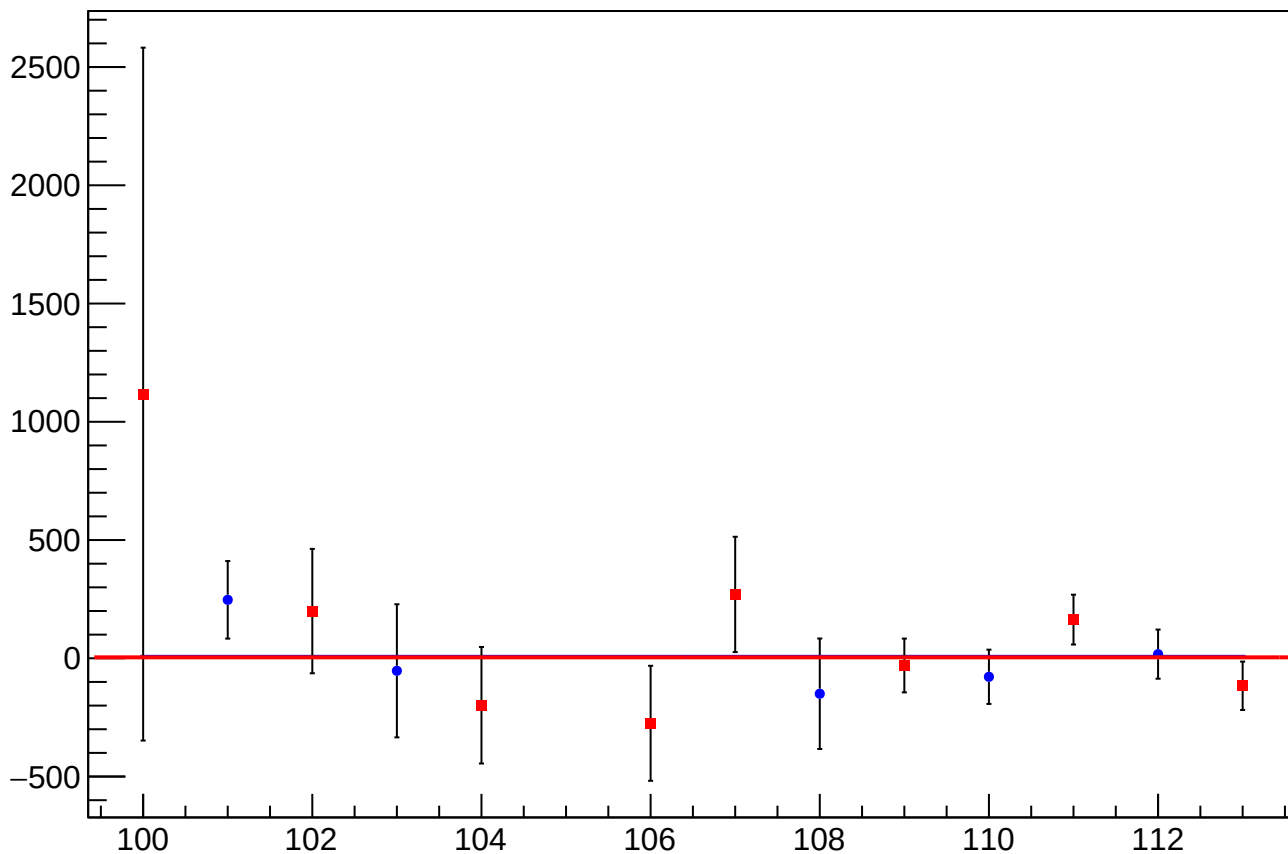
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 899.948+/-0.271  $\chi^2/\text{NDF}$ : 375960.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_avg\_mean vs Slug



Right In: 6.118+/-64.993  $\chi^2/\text{NDF}$ : 3.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.981+/-55.213  $\chi^2/\text{NDF}$ : 8.1/7

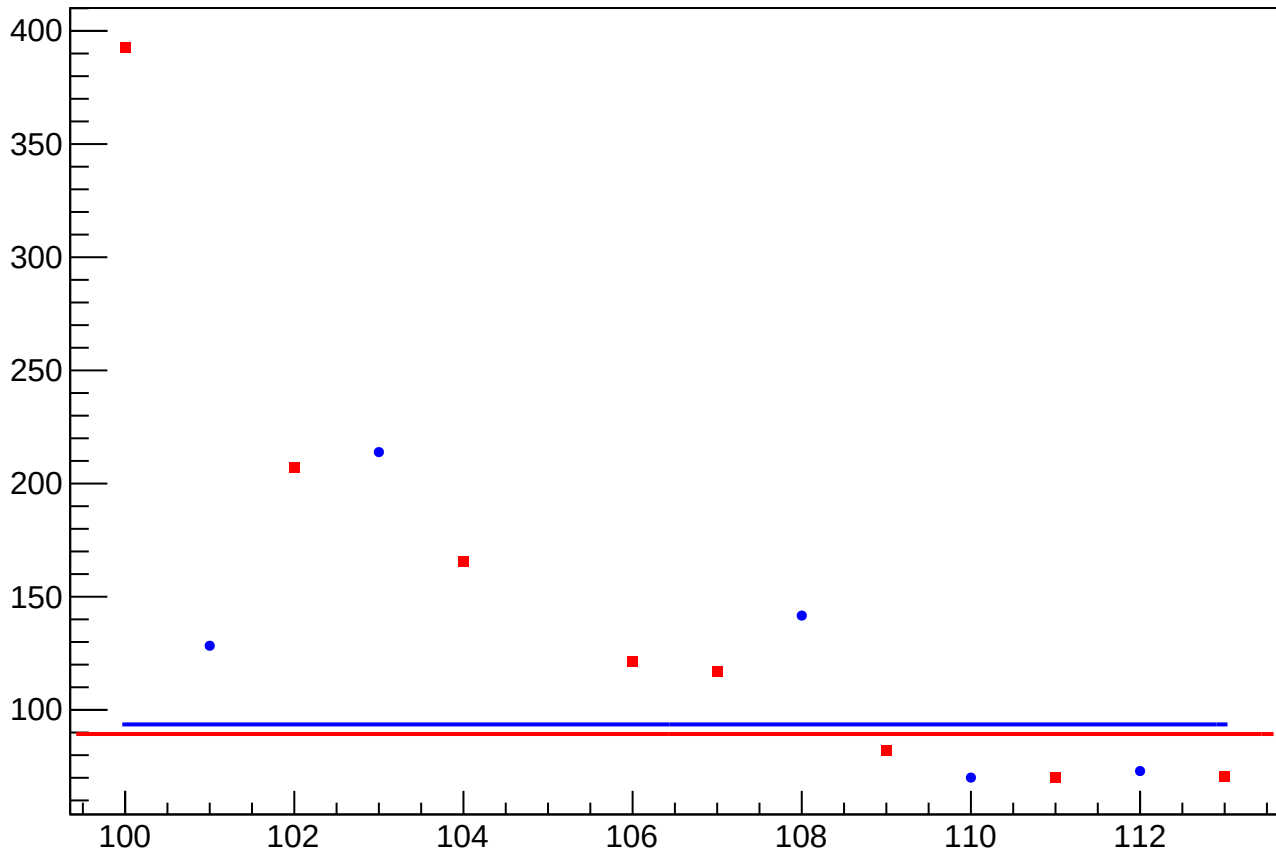
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.877+/-42.079  $\chi^2/\text{NDF}$ : 11.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 93.583 $\pm$ 0.046  $\chi^2$ /NDF: 702768.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 89.344 $\pm$ 0.039  $\chi^2$ /NDF: 881839.7/7

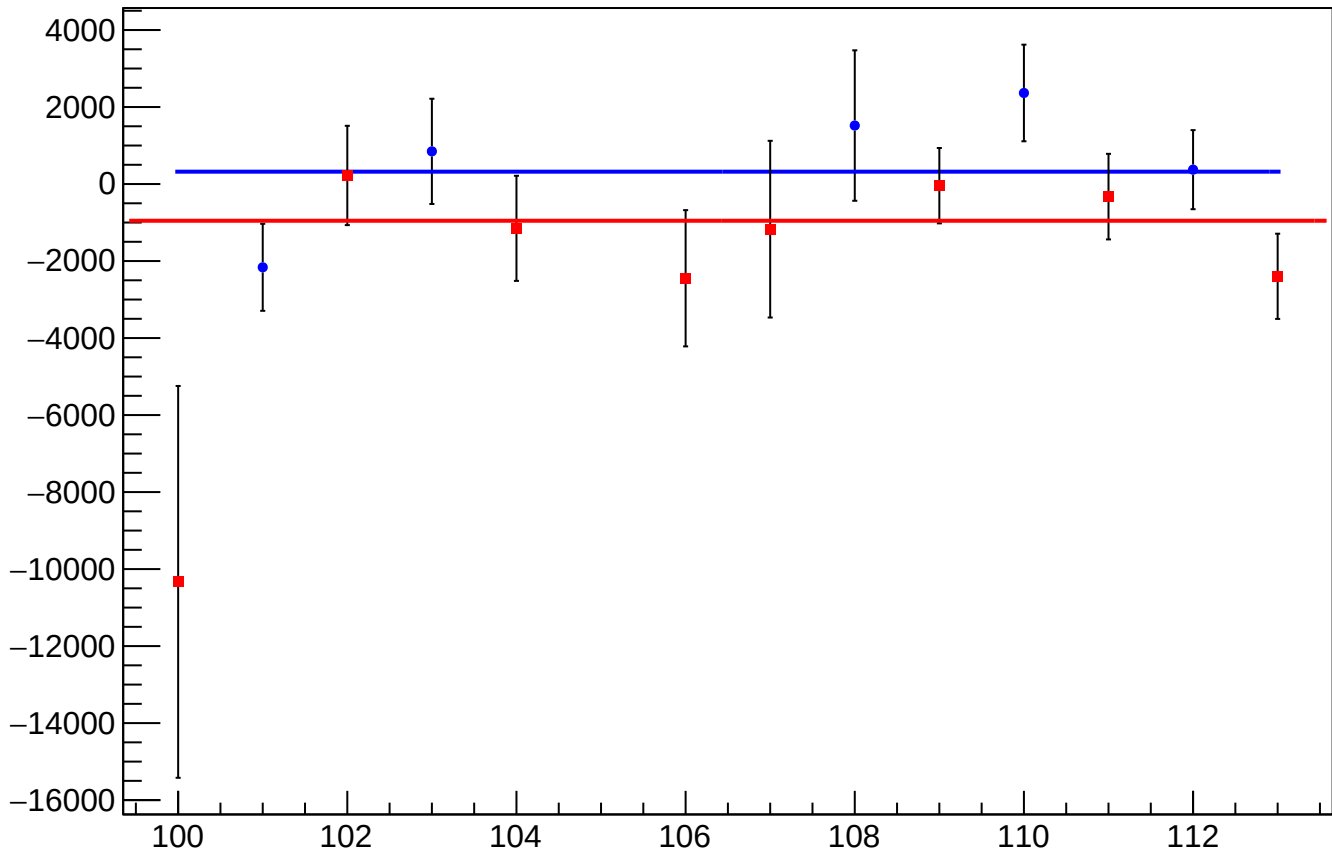
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 91.121 $\pm$ 0.030  $\chi^2$ /NDF: 1589550.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_avg\_dit\_correction\_mean vs Slug



Right In: 321.164+/-562.159  $\chi^2$ /NDF: 8.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -953.449+/-479.114  $\chi^2$ /NDF: 7.9/7

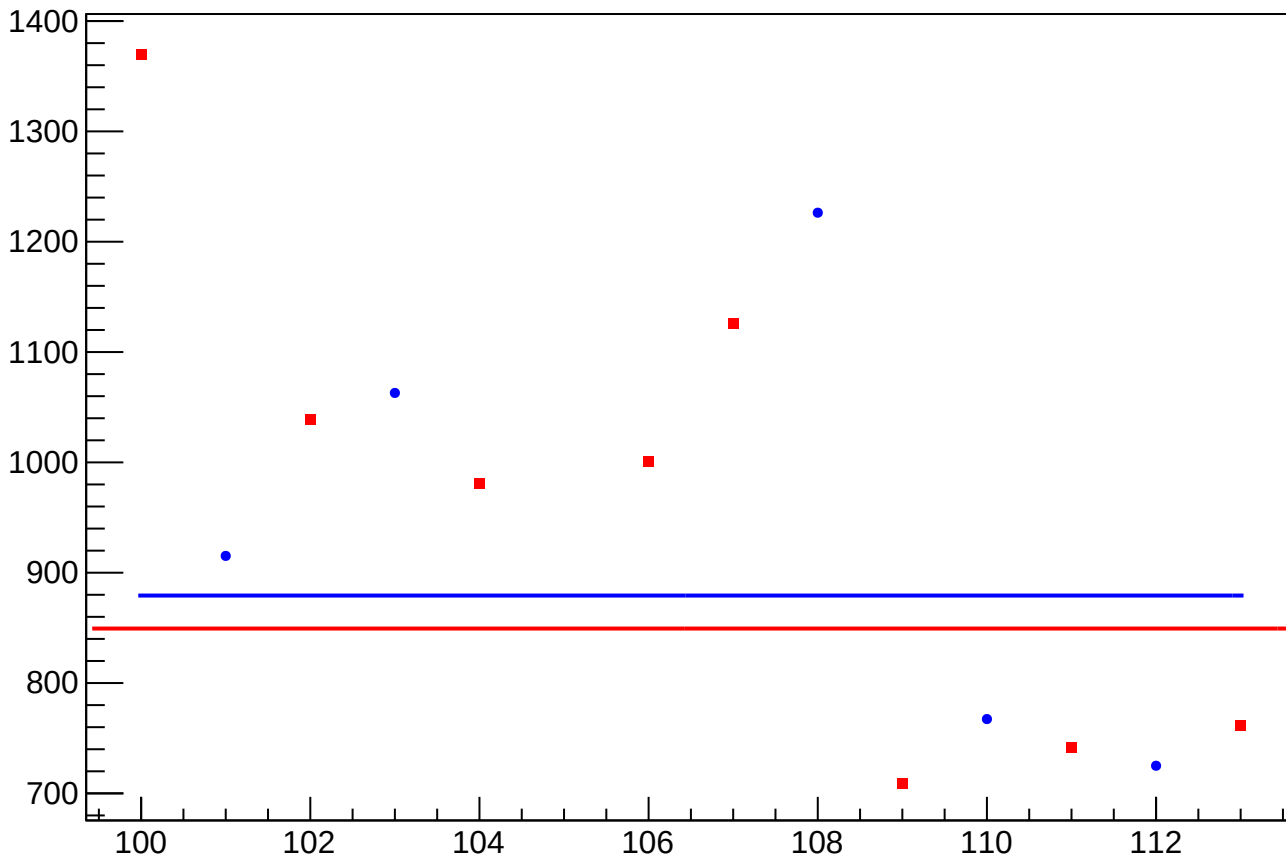
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -417.155+/-364.646  $\chi^2$ /NDF: 18.8/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_avg\_dit\_correction\_rms vs Slug



Right In: 879.302 $\pm$ 0.398  $\chi^2$ /NDF: 162298.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 849.395 $\pm$ 0.339  $\chi^2$ /NDF: 198188.4/7

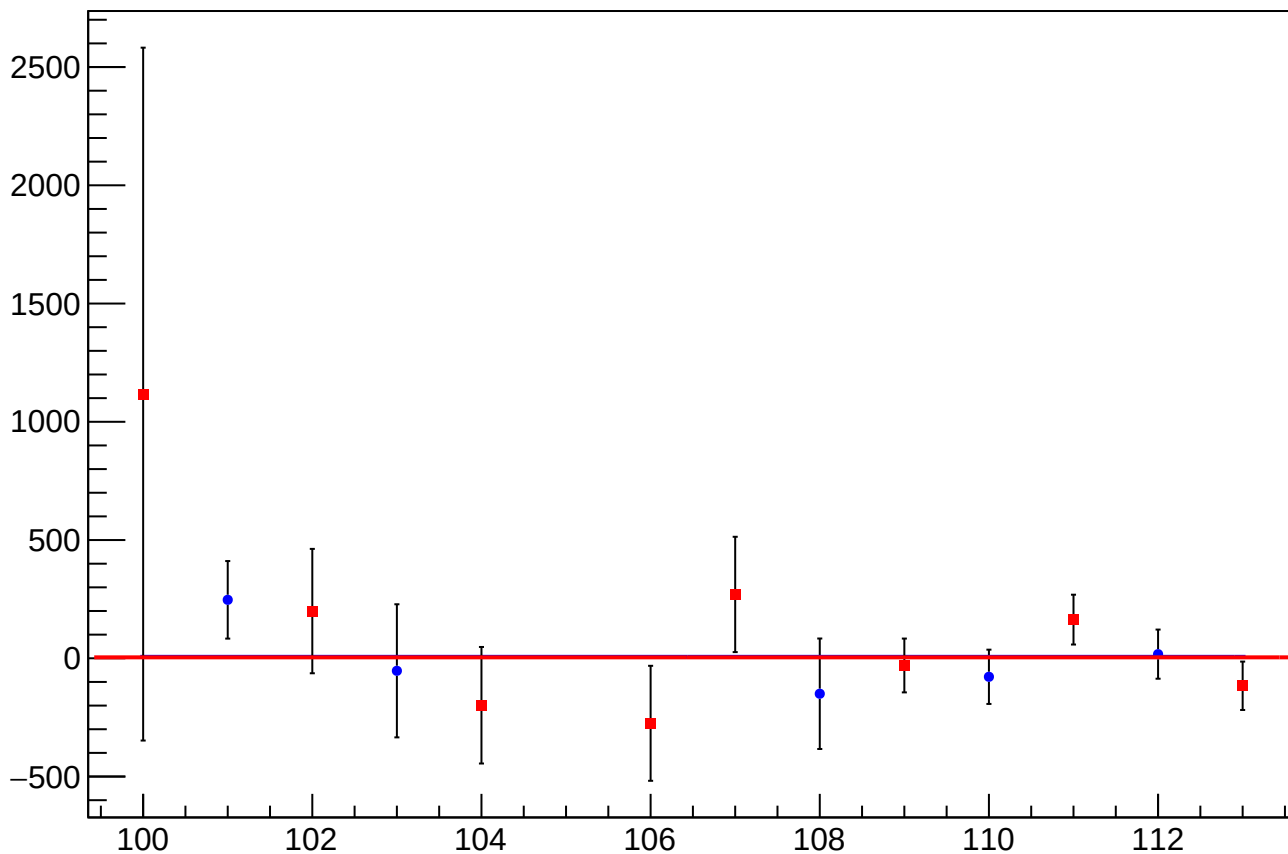
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 861.978 $\pm$ 0.258  $\chi^2$ /NDF: 363765.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_37\_avg\_mean vs Slug



Right In: 6.117 $\pm$ 64.994  $\chi^2$ /NDF: 3.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.984 $\pm$ 55.213  $\chi^2$ /NDF: 8.1/7

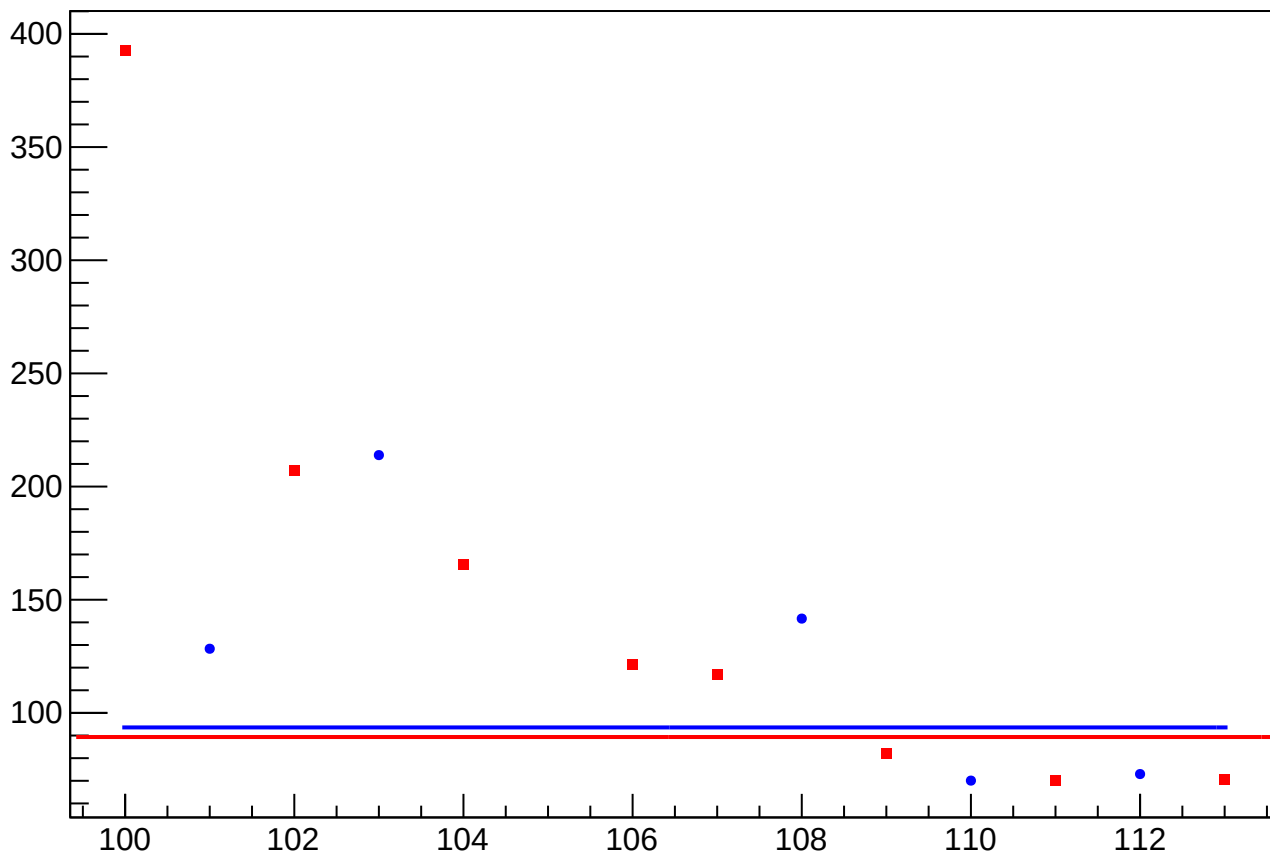
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.878 $\pm$ 42.079  $\chi^2$ /NDF: 11.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 93.584 $\pm$ 0.046  $\chi^2$ /NDF: 702760.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 89.344 $\pm$ 0.039  $\chi^2$ /NDF: 881834.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

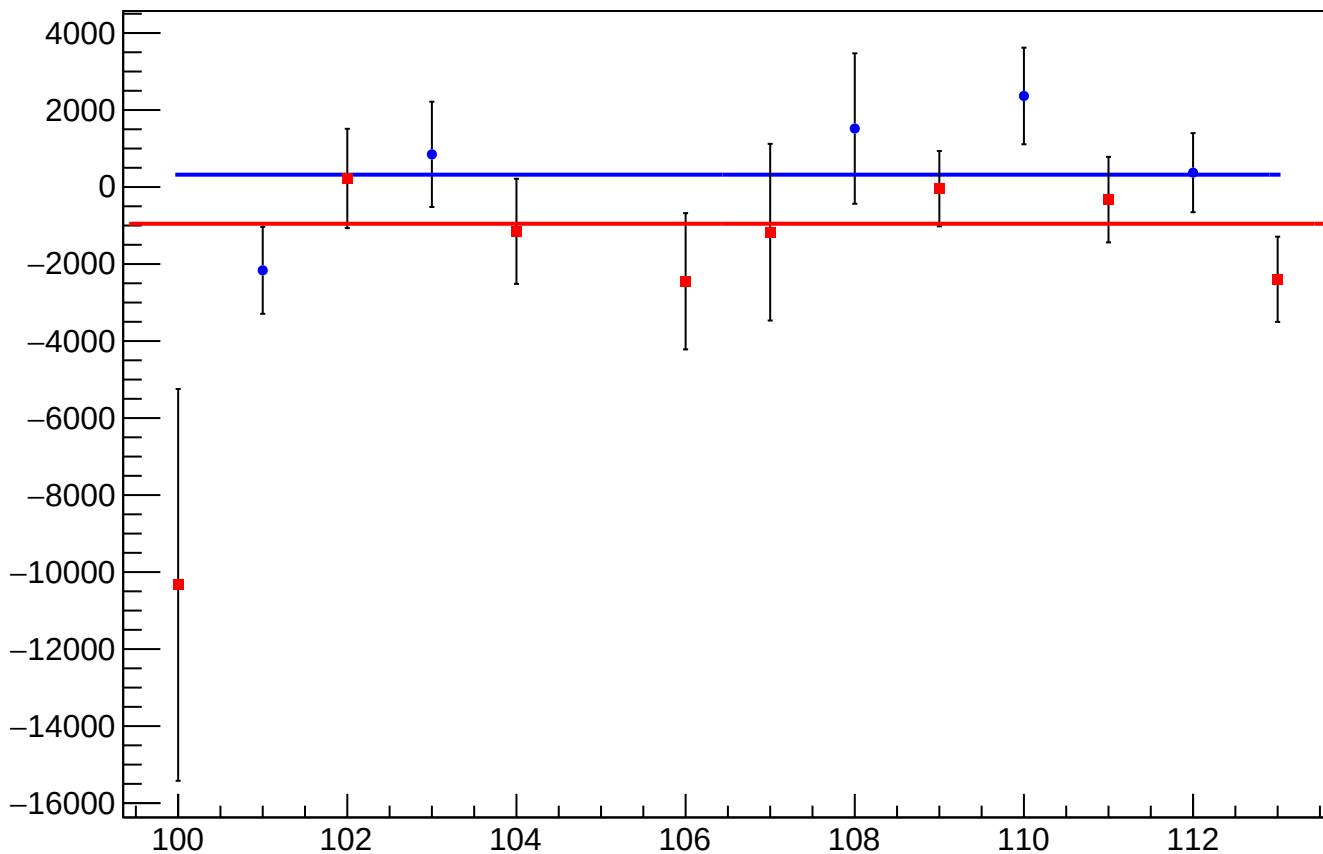
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 91.121 $\pm$ 0.030  $\chi^2$ /NDF: 1589537.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 321.162 $\pm$ 562.157  $\chi^2$ /NDF: 8.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -953.447 $\pm$ 479.113  $\chi^2$ /NDF: 7.9/7

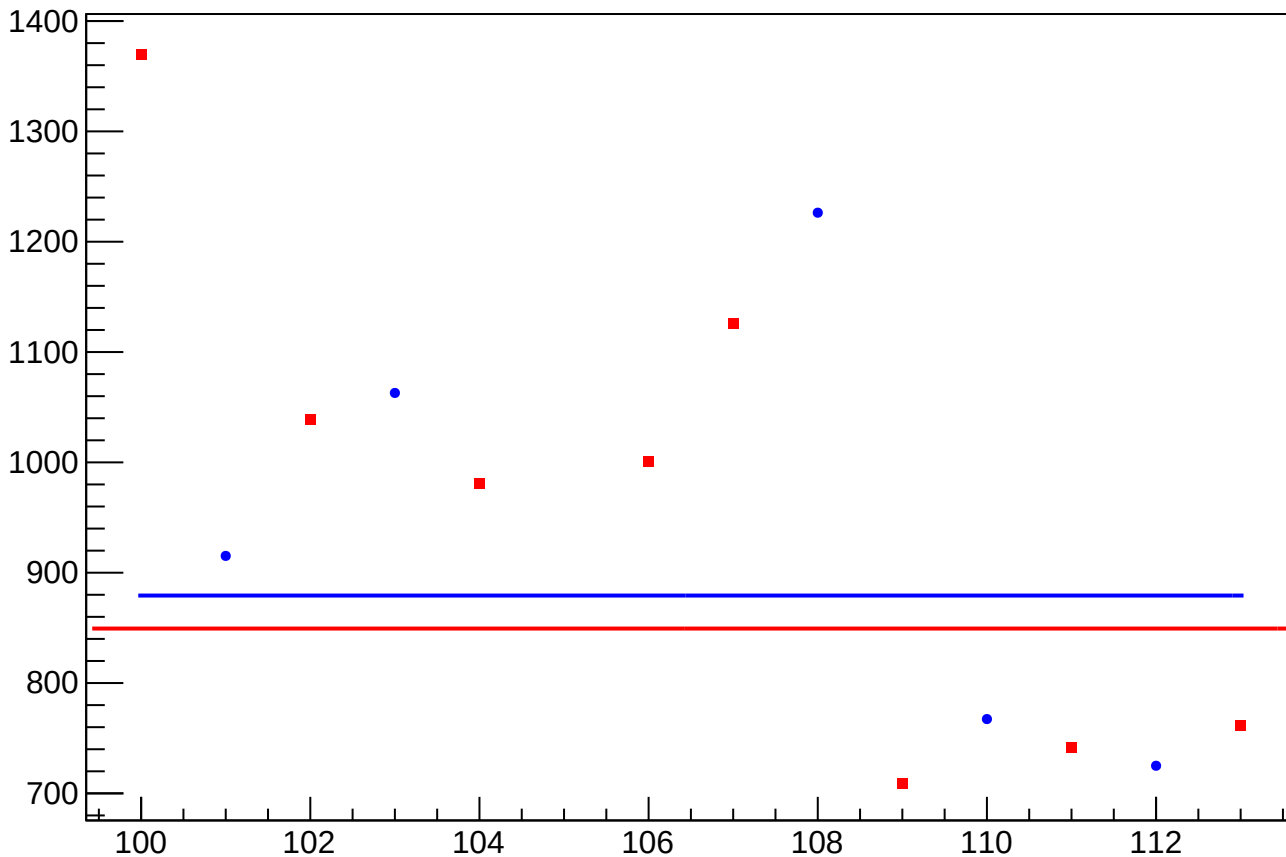
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -417.154 $\pm$ 364.645  $\chi^2$ /NDF: 18.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 879.299 $\pm$ 0.398  $\chi^2$ /NDF: 162298.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 849.393 $\pm$ 0.339  $\chi^2$ /NDF: 198187.4/7

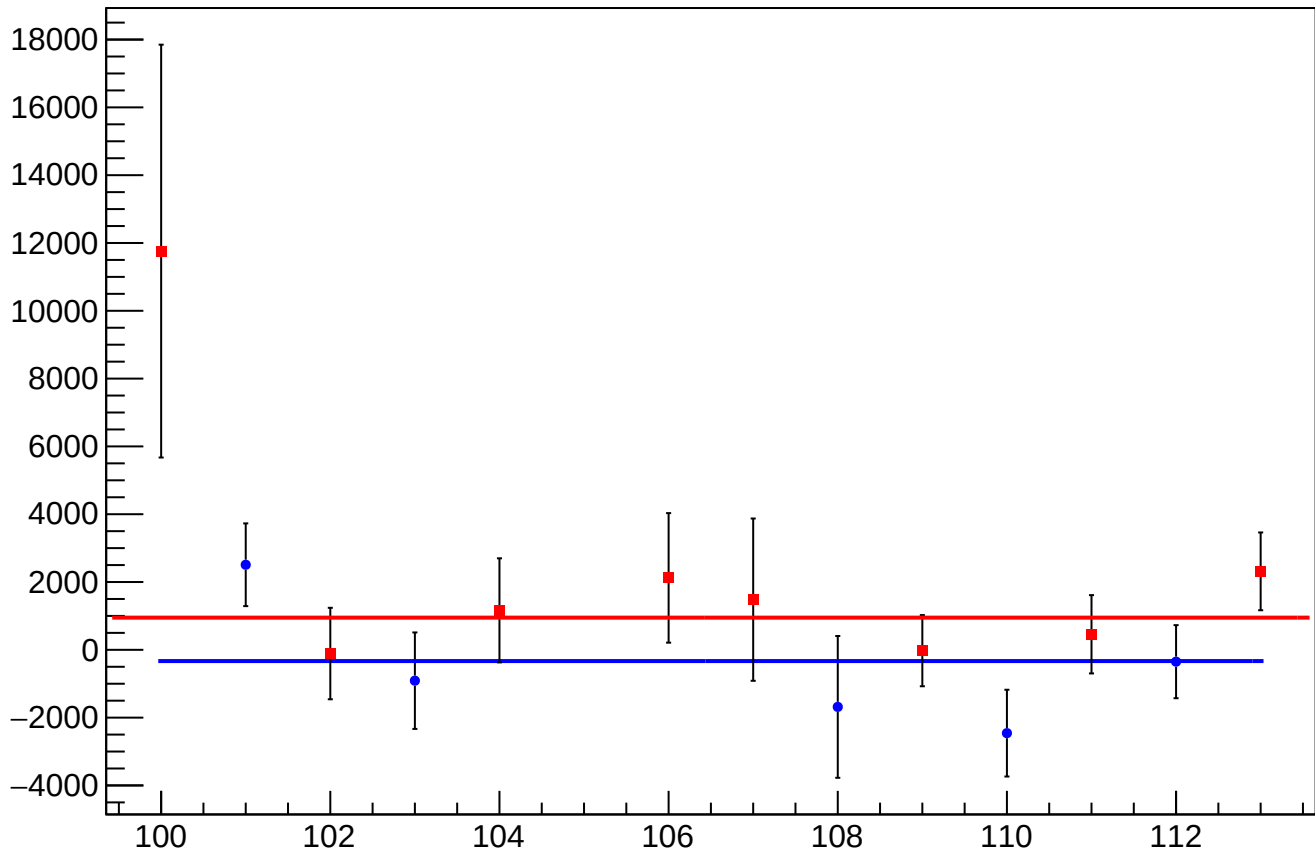
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 861.976 $\pm$ 0.258  $\chi^2$ /NDF: 363764.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_avg\_mean vs Slug



Right In: -331.579+/-590.669  $\chi^2/\text{NDF}$ : 8.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 949.474+/-508.528  $\chi^2/\text{NDF}$ : 6.7/7

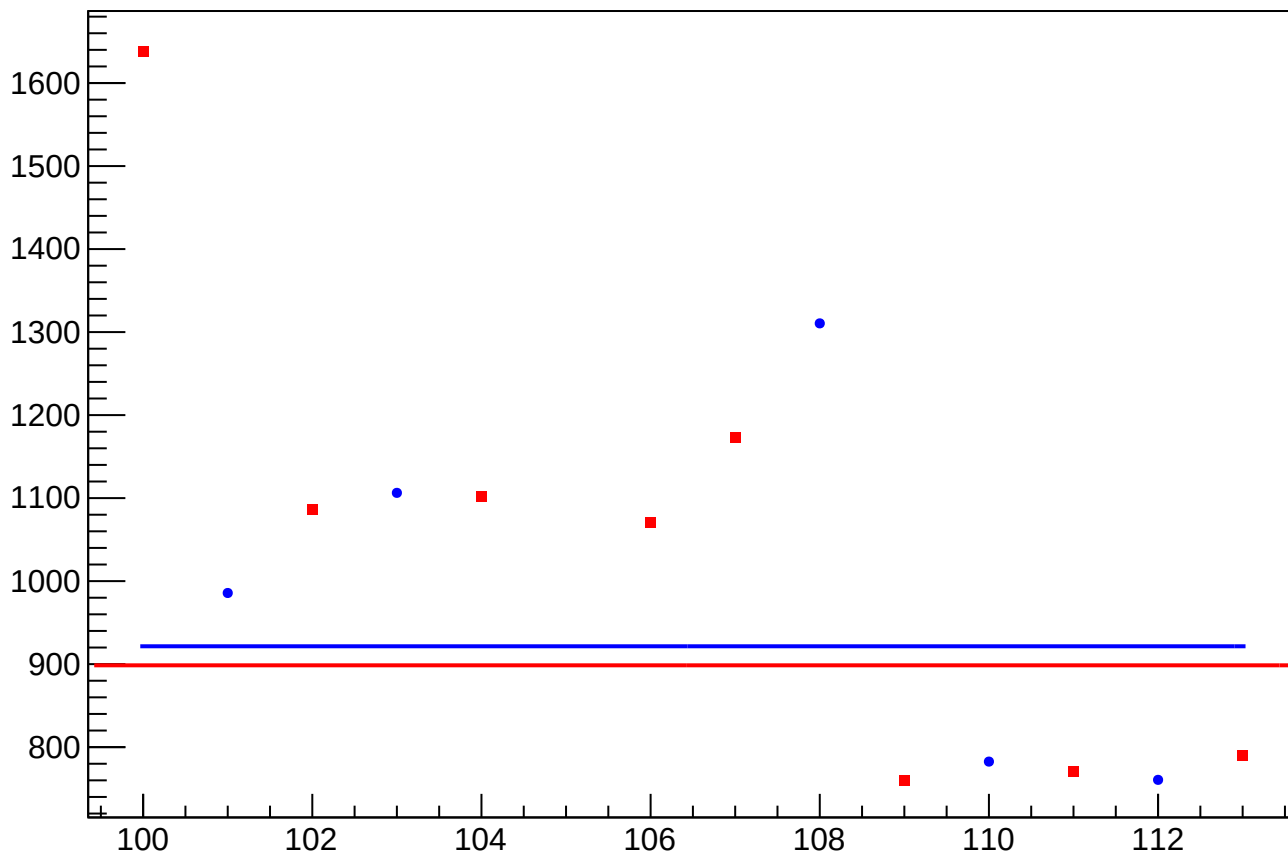
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 404.146+/-385.380  $\chi^2/\text{NDF}$ : 18.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_rms vs Slug



Right In: 921.511+/-0.418  $\chi^2/\text{NDF}$ : 176650.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 898.570+/-0.360  $\chi^2/\text{NDF}$ : 223355.8/7

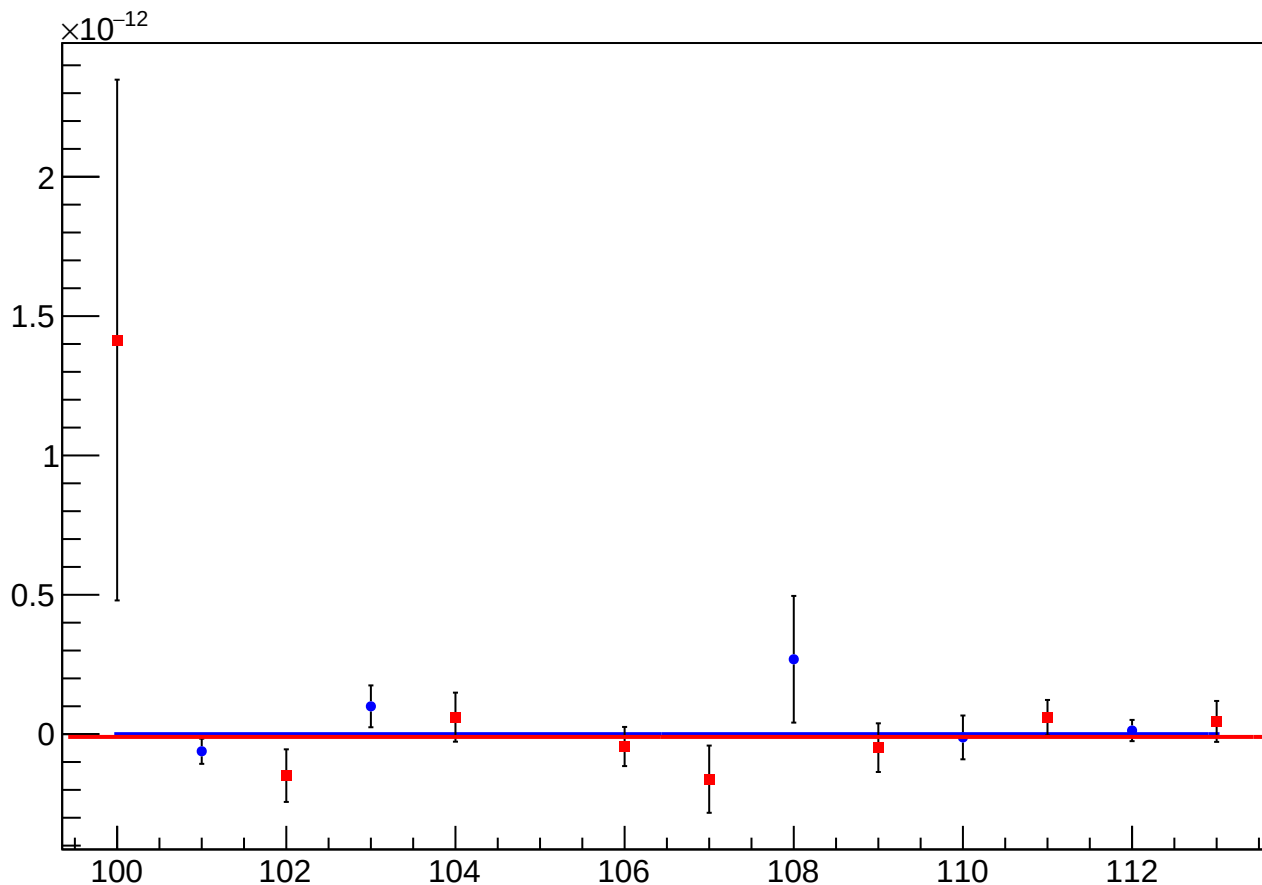
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 908.336+/-0.273  $\chi^2/\text{NDF}$ : 401738.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 5.1/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 8.9/7

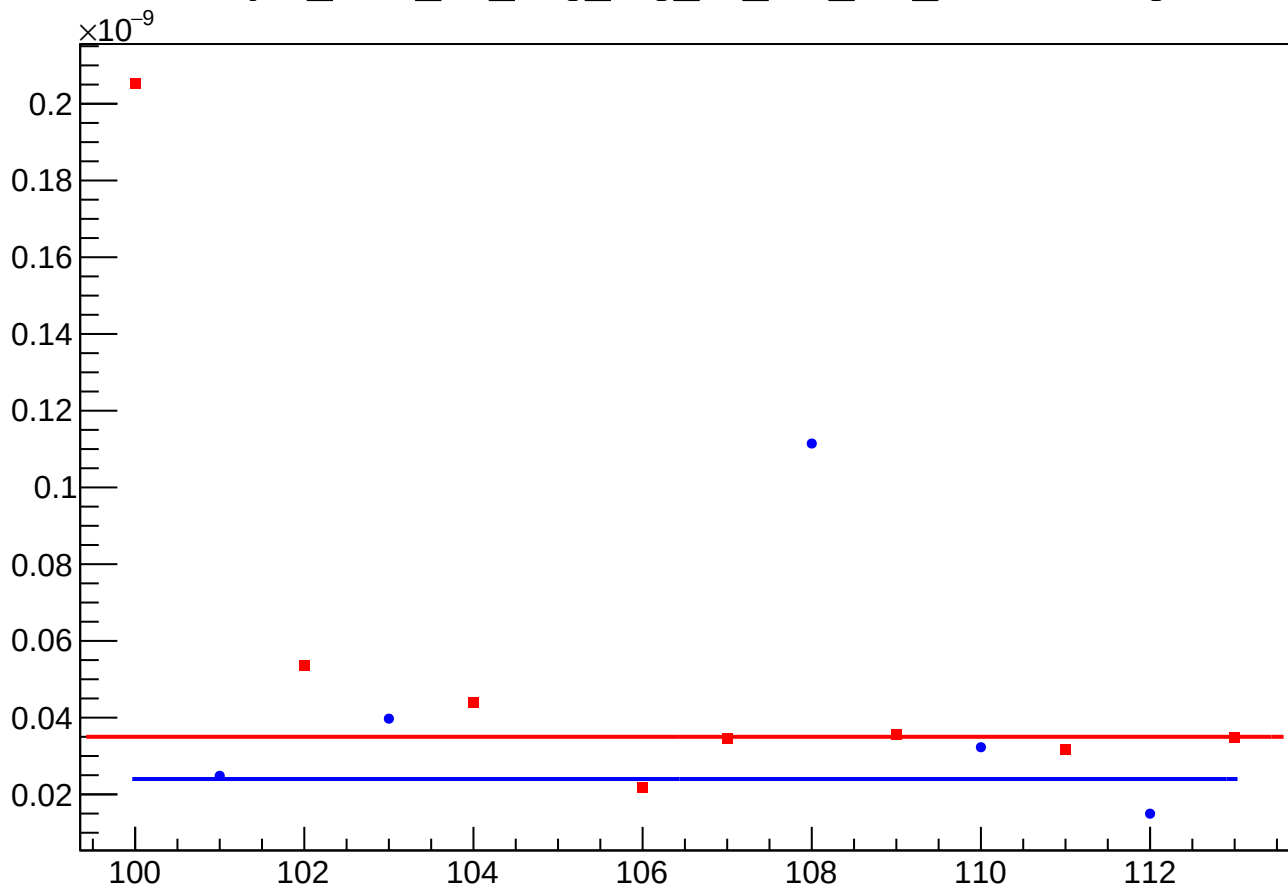
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 14.1/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 519328.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 241033.4/7

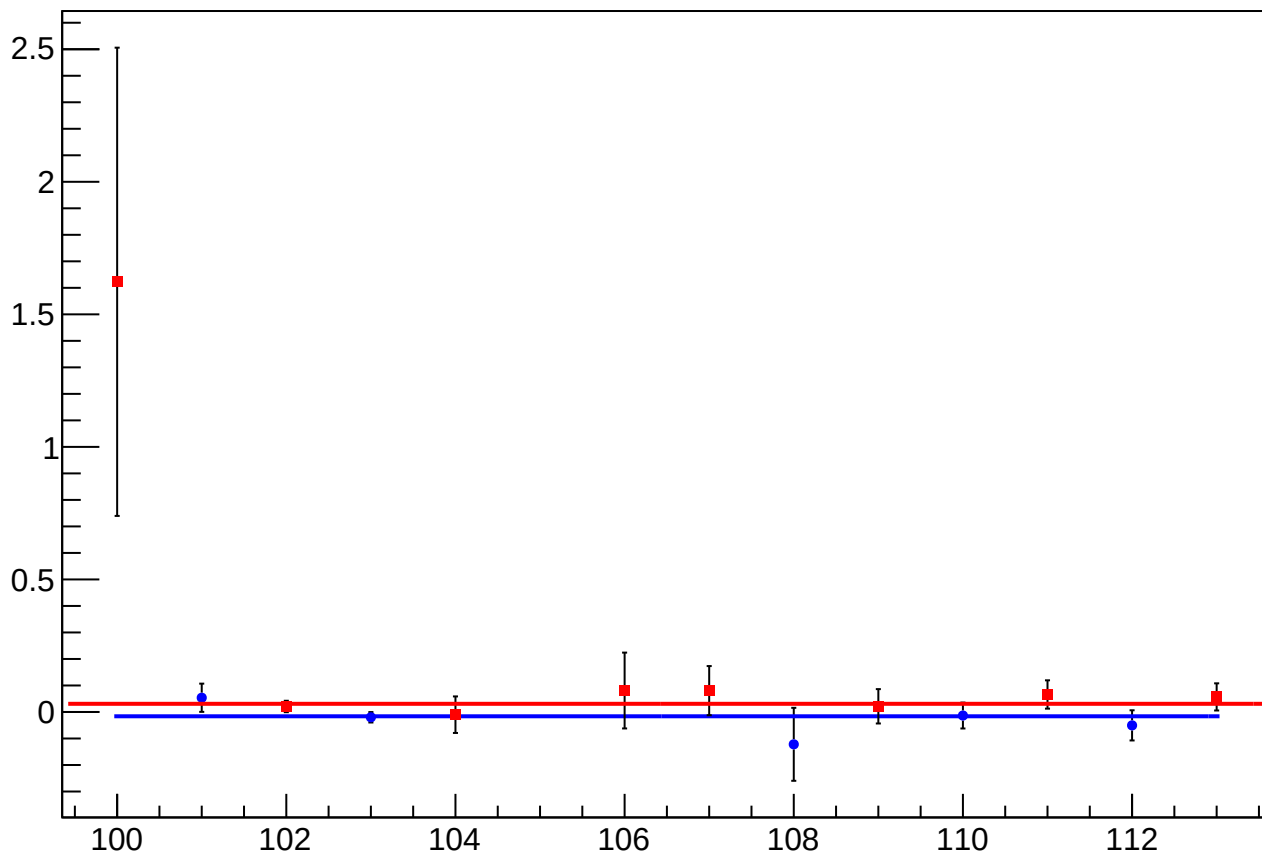
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 913530.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.016 \pm 0.016$   $\chi^2/\text{NDF}$ : 2.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.031 \pm 0.017$   $\chi^2/\text{NDF}$ : 4.9/7

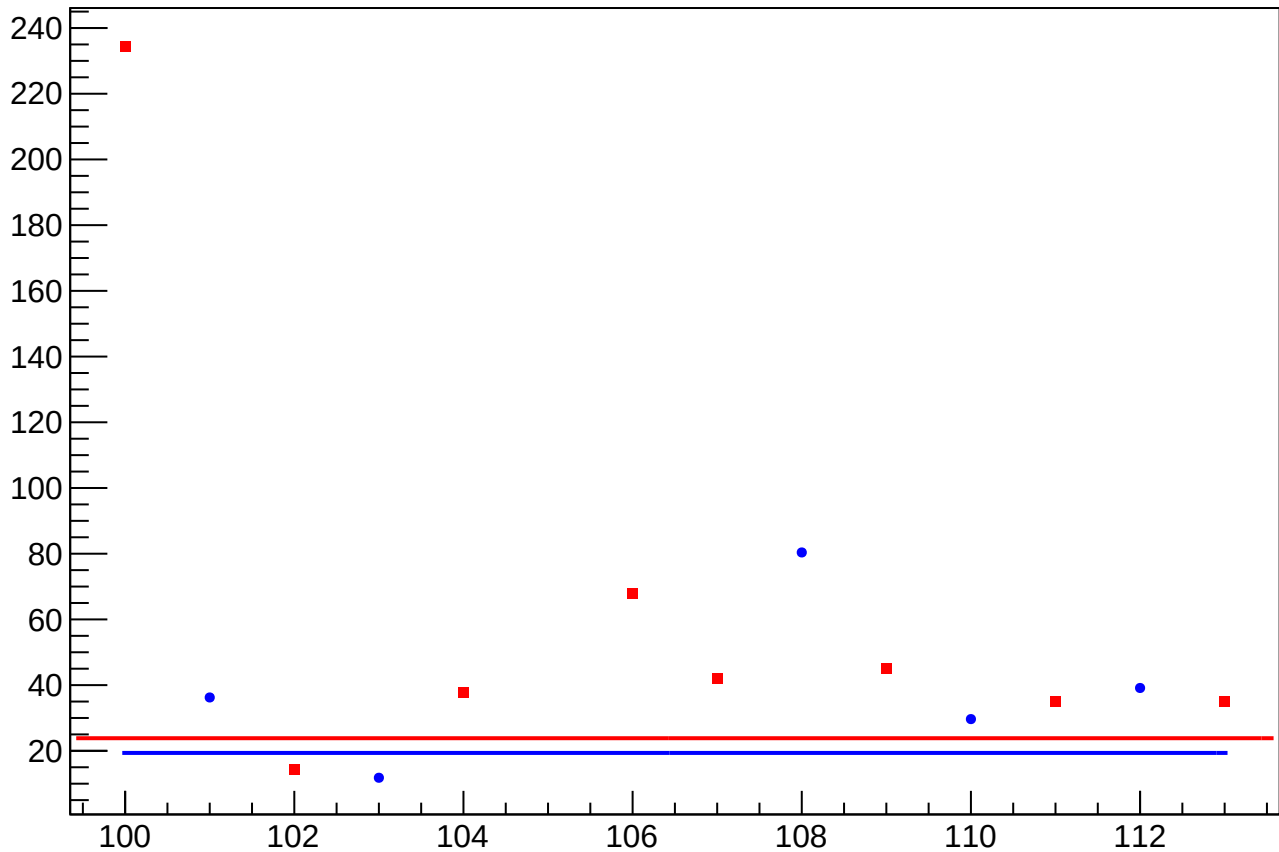
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.007 \pm 0.012$   $\chi^2/\text{NDF}$ : 11.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 19.363+/-0.012  $\chi^2/\text{NDF}$ : 1220606.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23.839+/-0.012  $\chi^2/\text{NDF}$ : 1254466.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

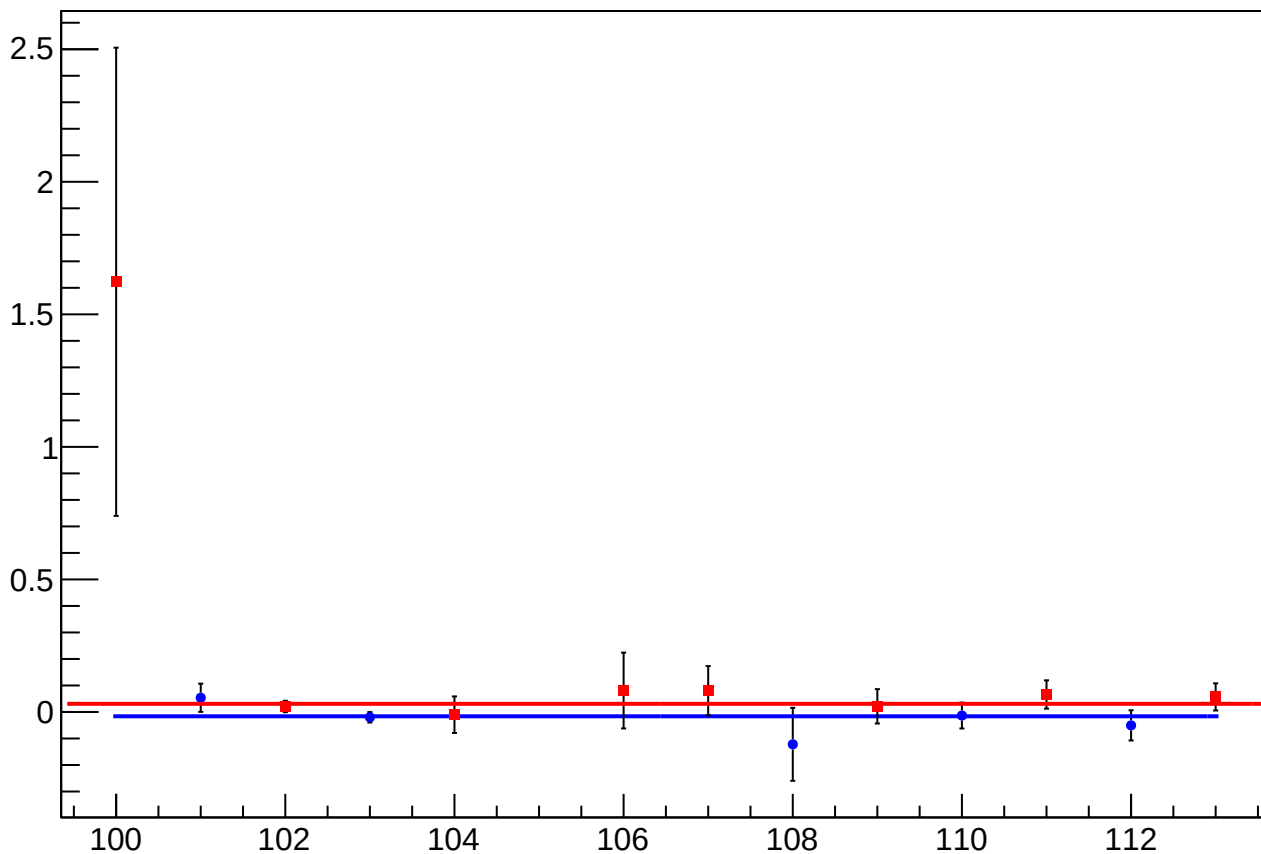
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.532+/-0.008  $\chi^2/\text{NDF}$ : 2547426.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.016 \pm 0.016$   $\chi^2/\text{NDF}$ : 2.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.031 \pm 0.017$   $\chi^2/\text{NDF}$ : 4.9/7

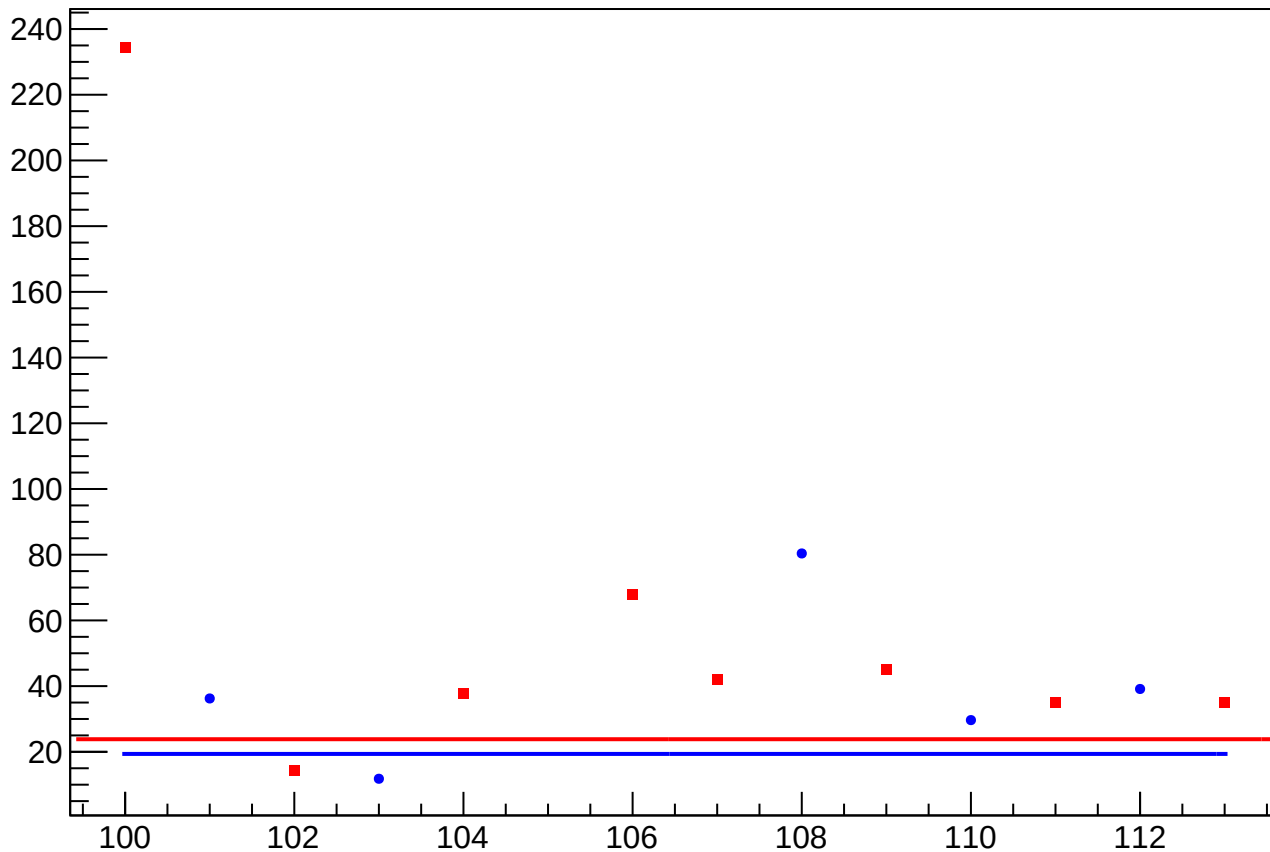
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.007 \pm 0.012$   $\chi^2/\text{NDF}$ : 11.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 19.363 $\pm$ 0.012  $\chi^2$ /NDF: 1220606.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 23.839 $\pm$ 0.012  $\chi^2$ /NDF: 1254466.2/7

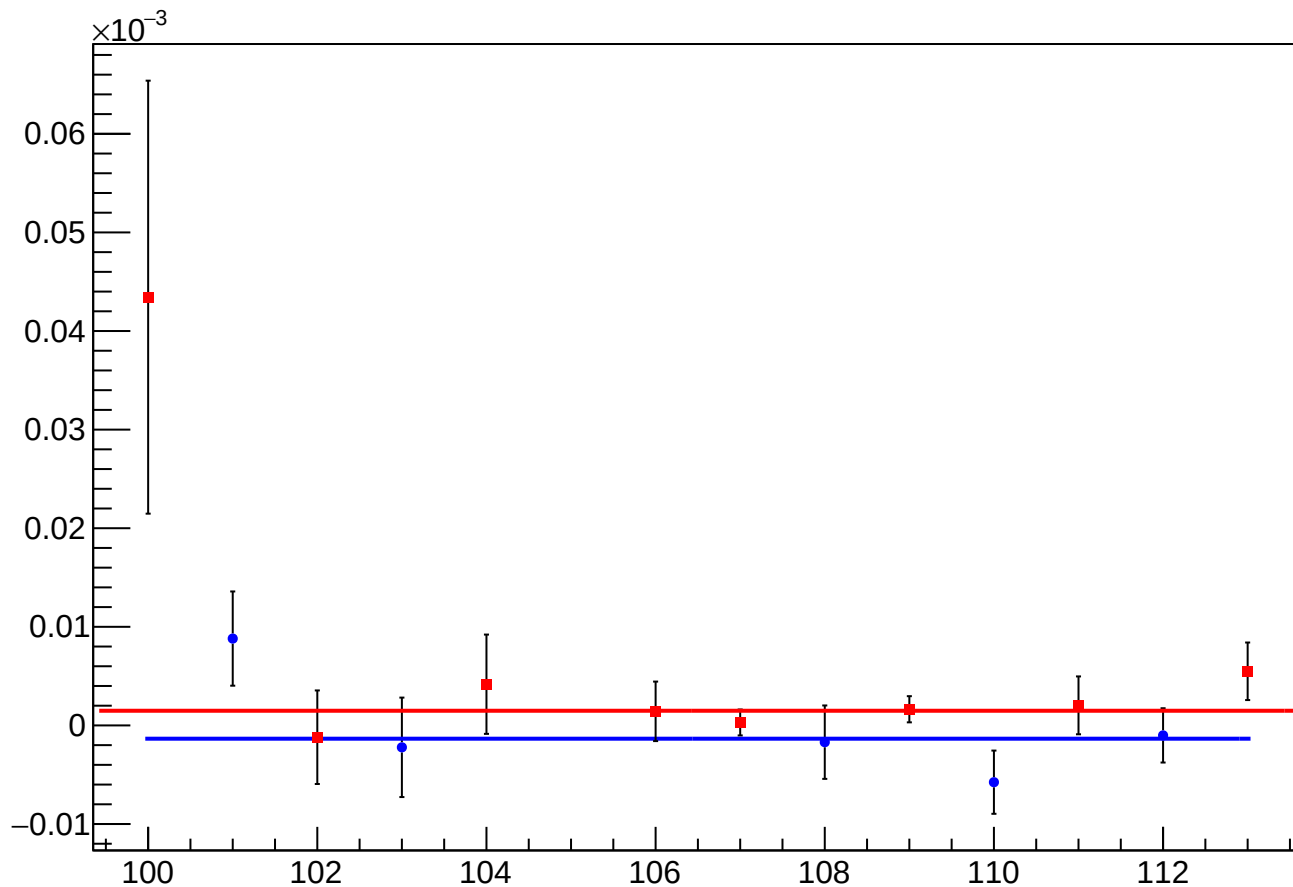
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.532 $\pm$ 0.008  $\chi^2$ /NDF: 2547426.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.0/7

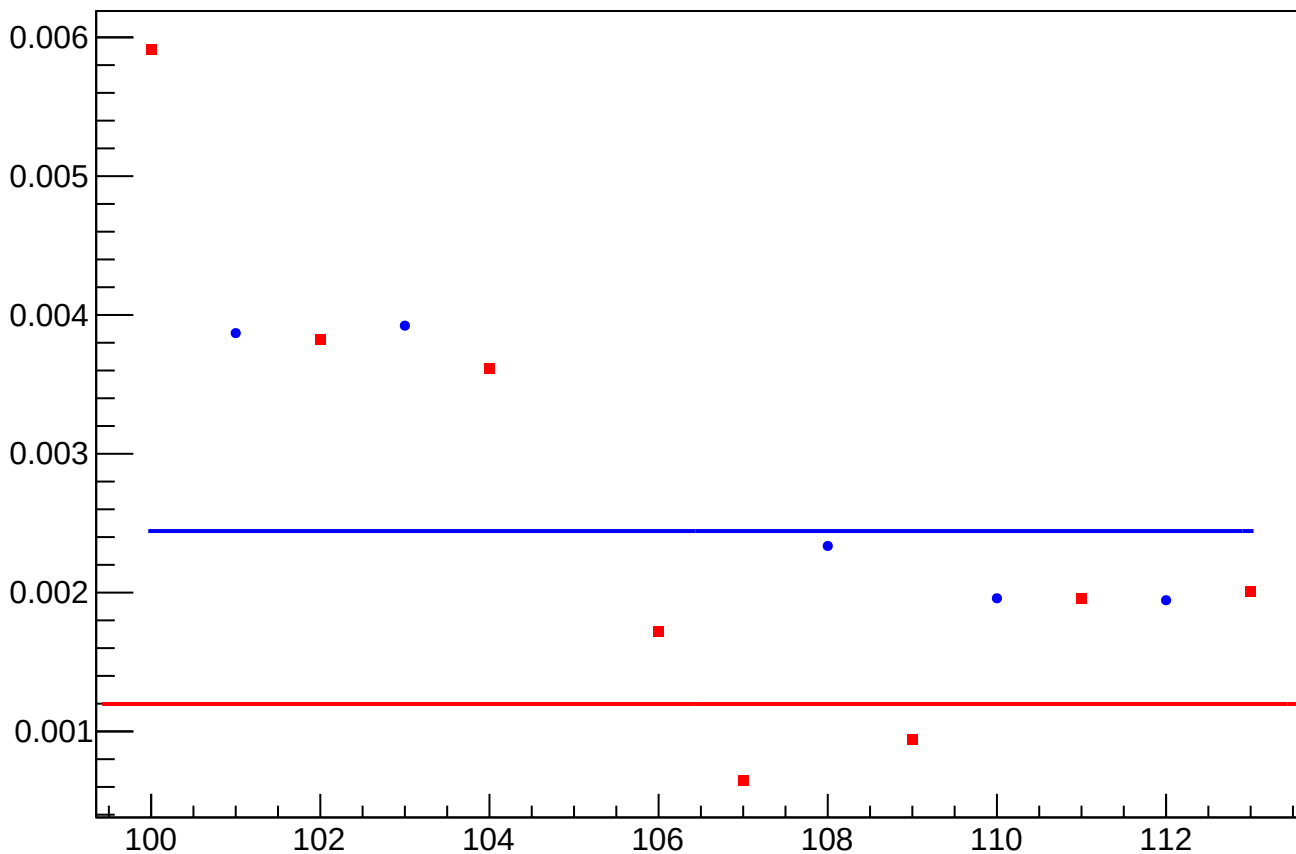
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 463042.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 1940638.8/7

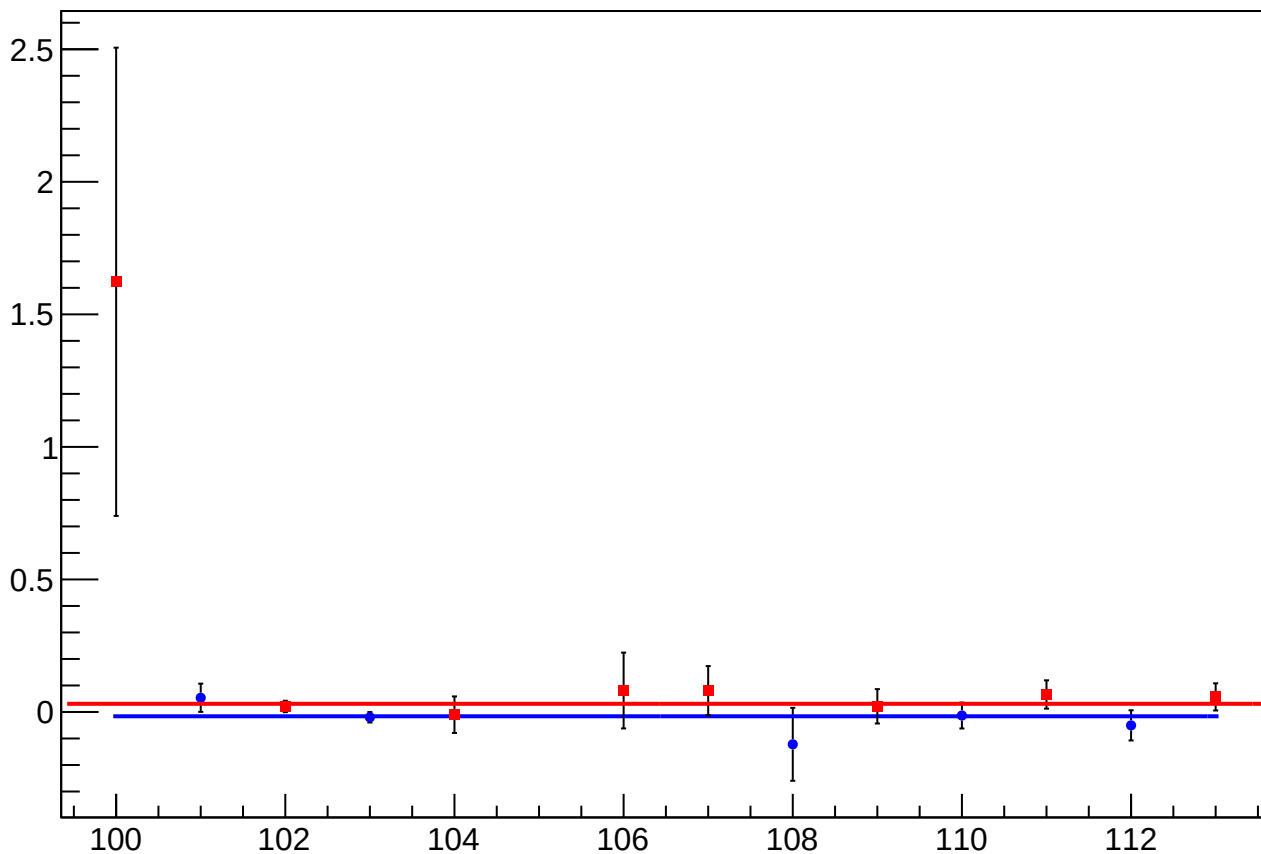
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 3363022.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.016 $\pm$ 0.016  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.031 $\pm$ 0.017  $\chi^2$ /NDF: 4.9/7

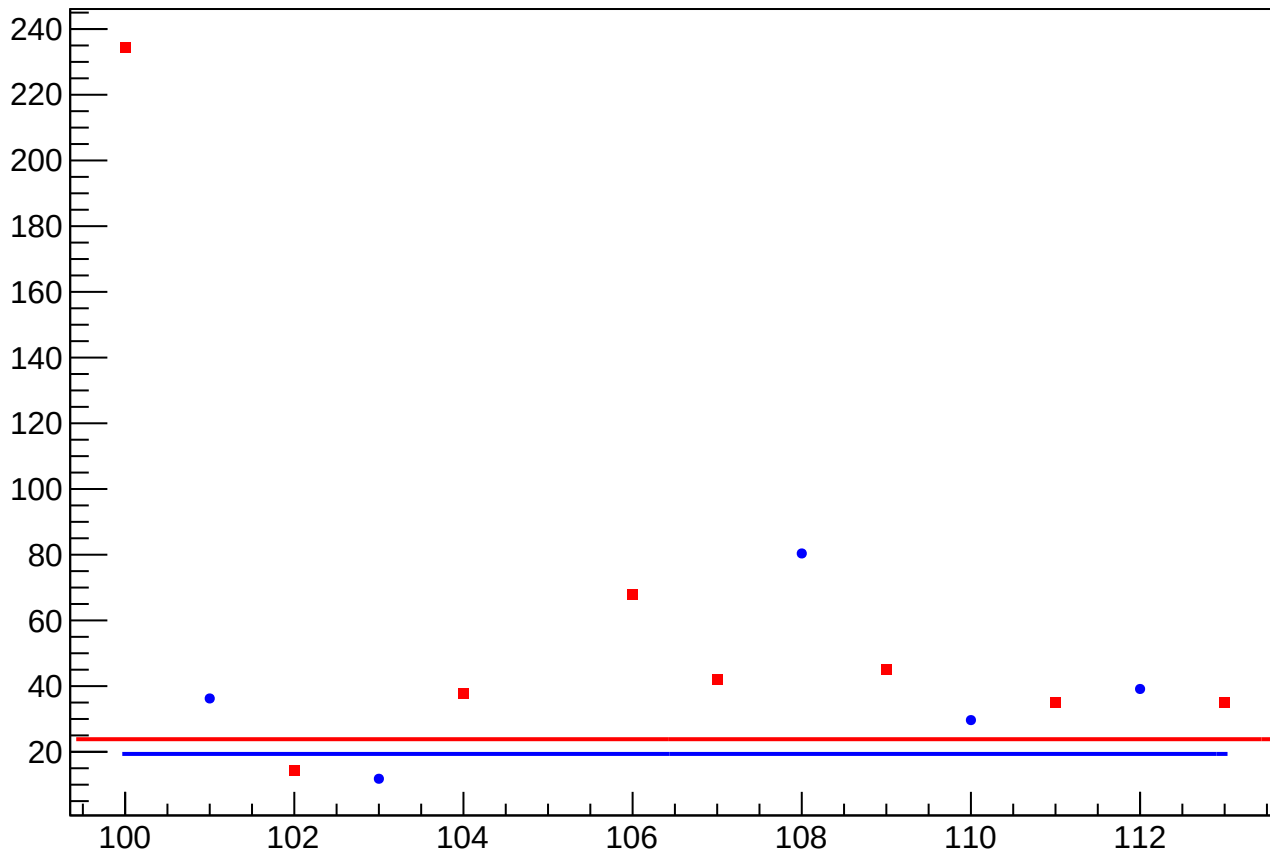
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.007 $\pm$ 0.012  $\chi^2$ /NDF: 11.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 19.362 $\pm$ 0.012  $\chi^2$ /NDF: 1220777.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 23.843 $\pm$ 0.012  $\chi^2$ /NDF: 1254168.1/7

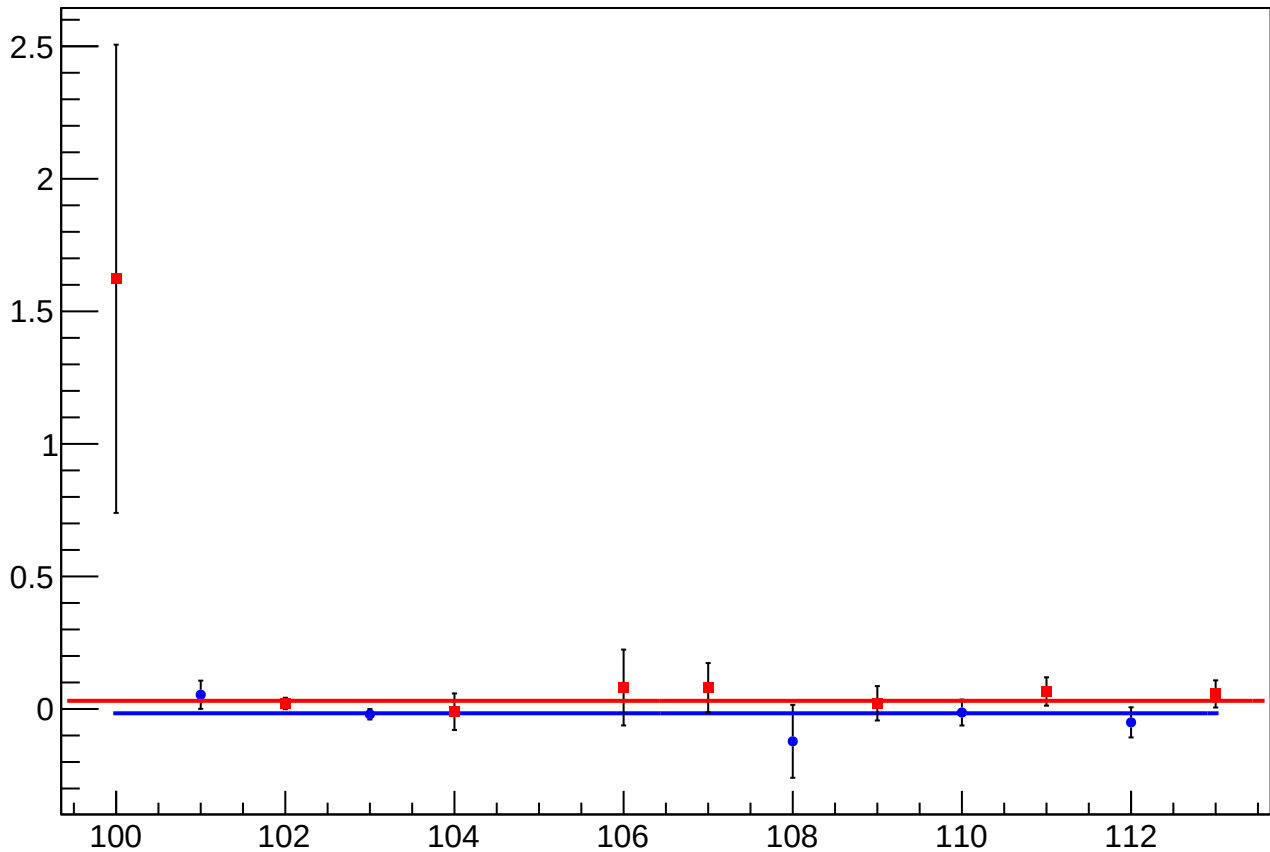
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.533 $\pm$ 0.008  $\chi^2$ /NDF: 2547450.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.016 \pm 0.016$   $\chi^2/\text{NDF}$ : 2.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.031 \pm 0.017$   $\chi^2/\text{NDF}$ : 4.9/7

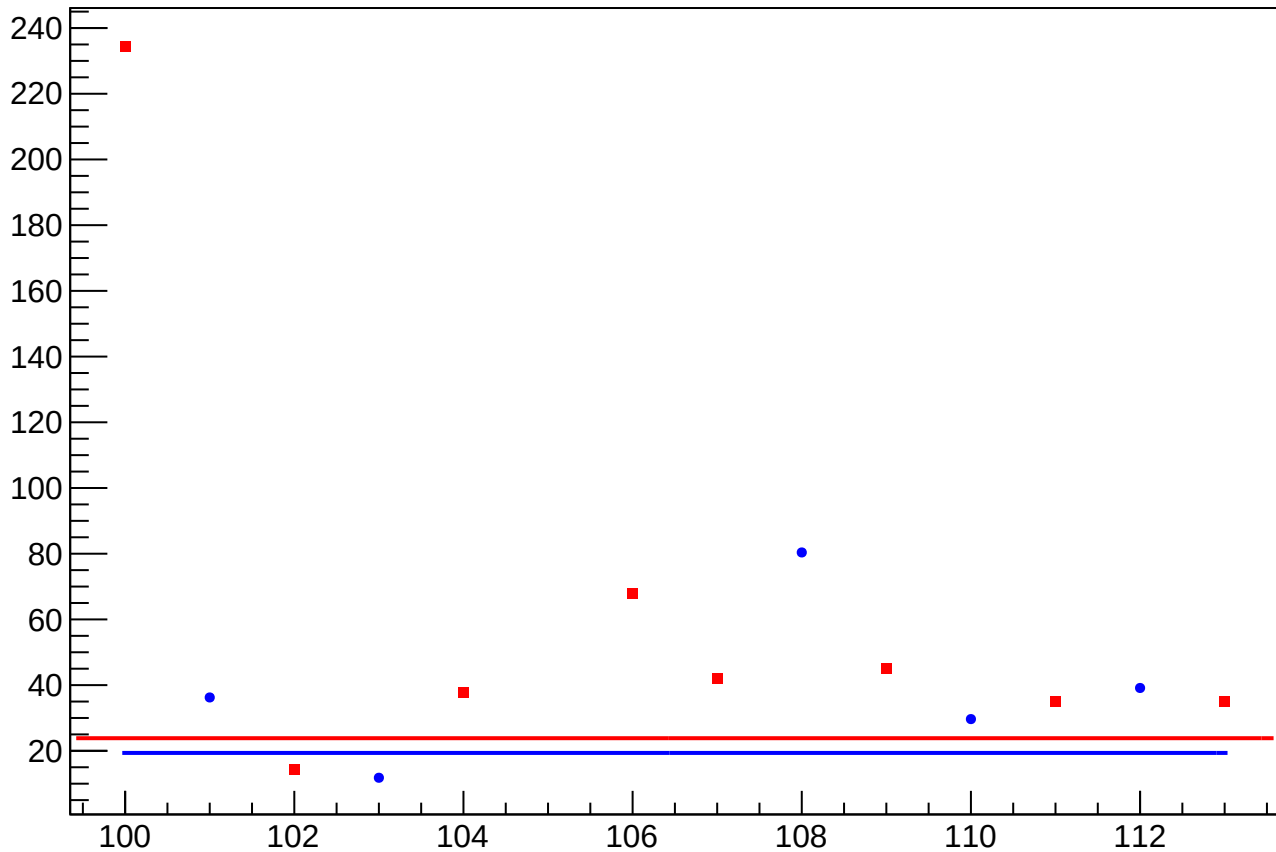
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.007 \pm 0.012$   $\chi^2/\text{NDF}$ : 11.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 19.362 $\pm$ 0.012  $\chi^2$ /NDF: 1220777.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 23.843 $\pm$ 0.012  $\chi^2$ /NDF: 1254168.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

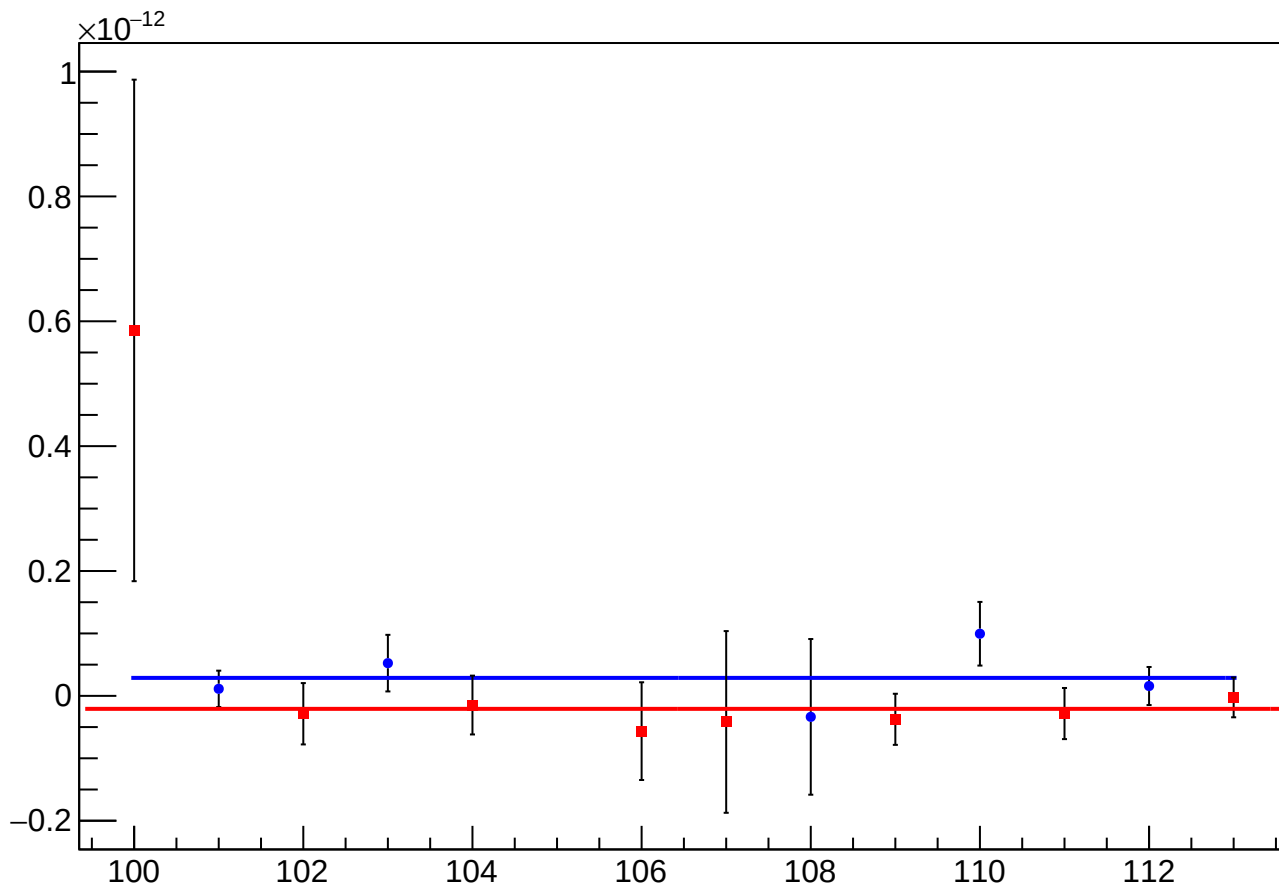
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.533 $\pm$ 0.008  $\chi^2$ /NDF: 2547450.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.1/7

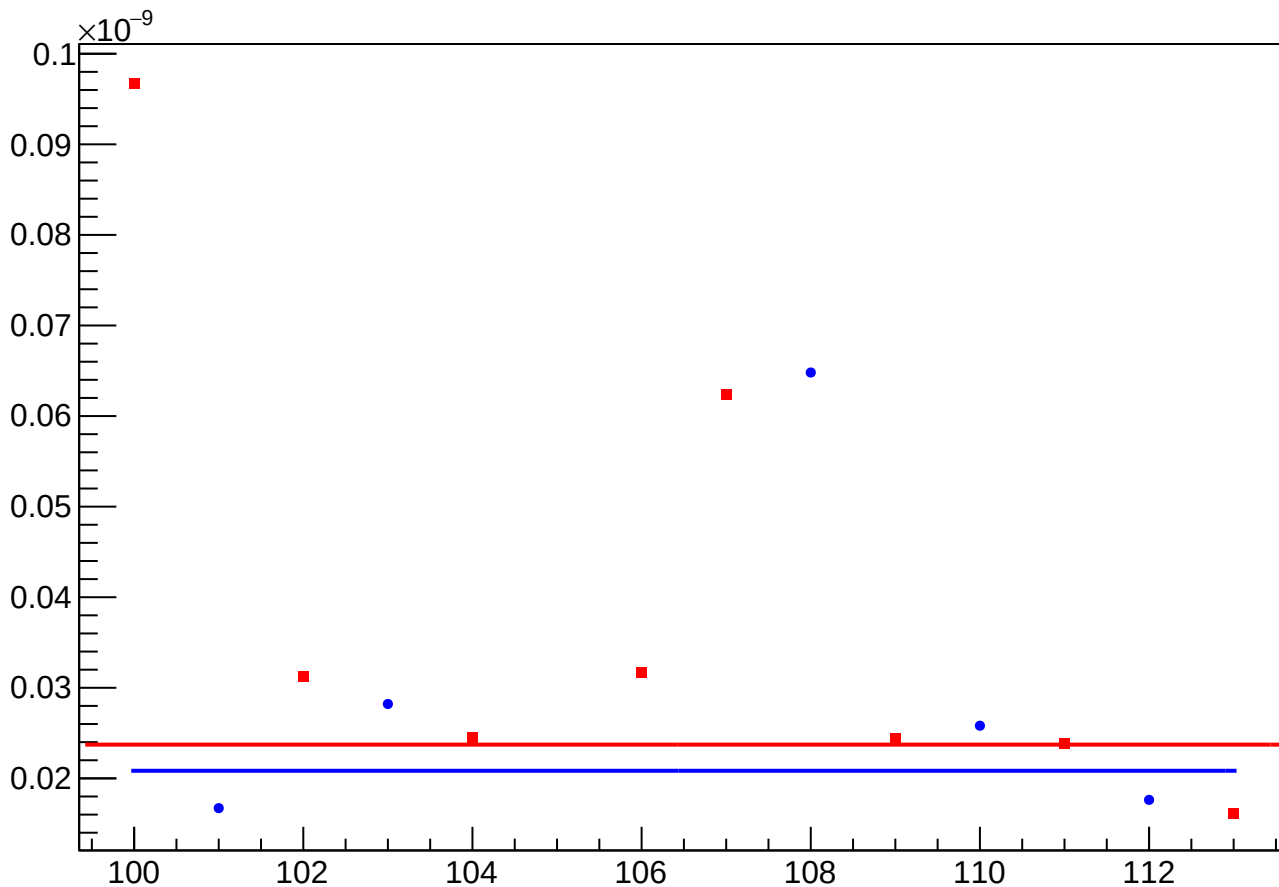
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 383099.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 389467.0/7

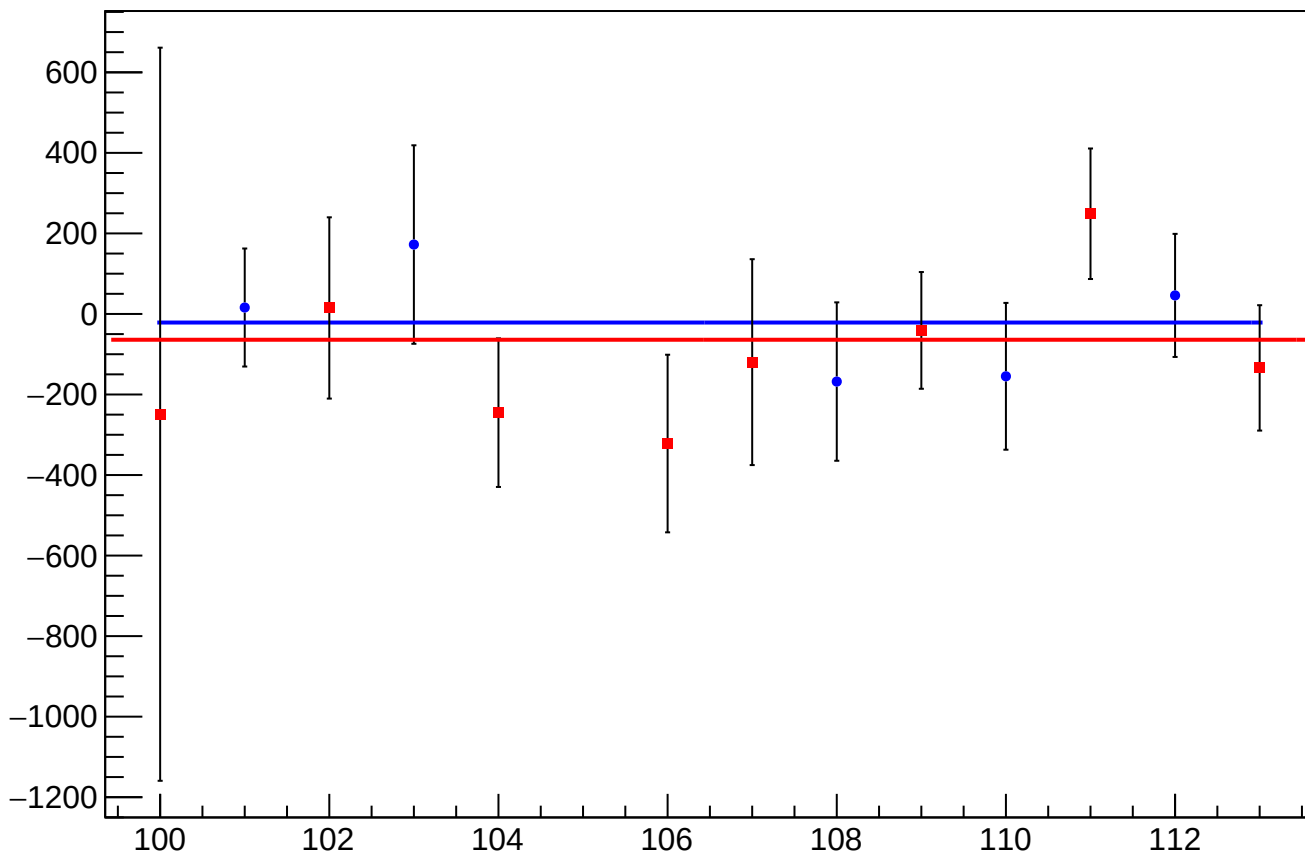
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 799427.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_avg\_mean vs Slug



Right In: -21.304 $\pm$ 78.616  $\chi^2$ /NDF: 2.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -64.056 $\pm$ 68.502  $\chi^2$ /NDF: 6.5/7

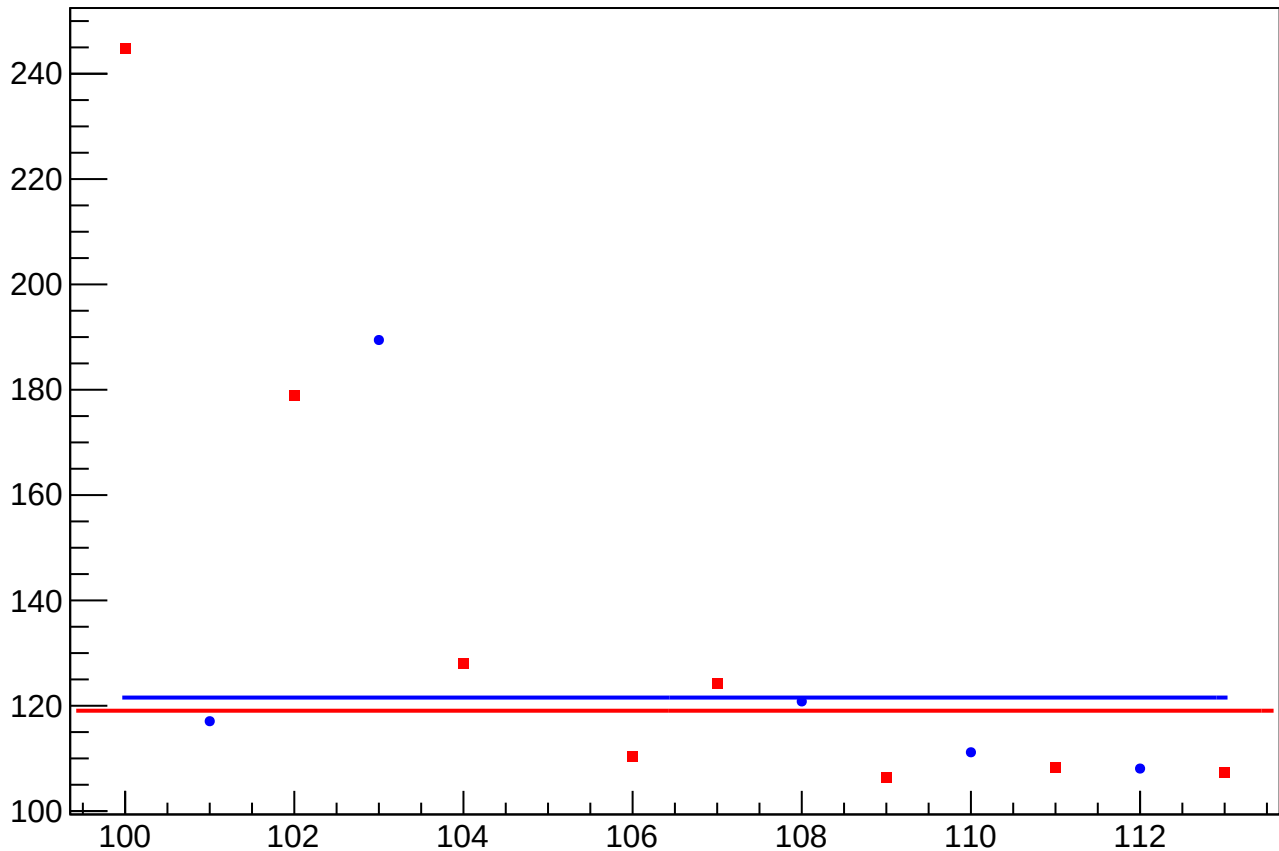
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -45.605 $\pm$ 51.646  $\chi^2$ /NDF: 8.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 121.556+/-0.056  $\chi^2/\text{NDF}$ : 175731.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 119.058+/-0.048  $\chi^2/\text{NDF}$ : 223910.1/7

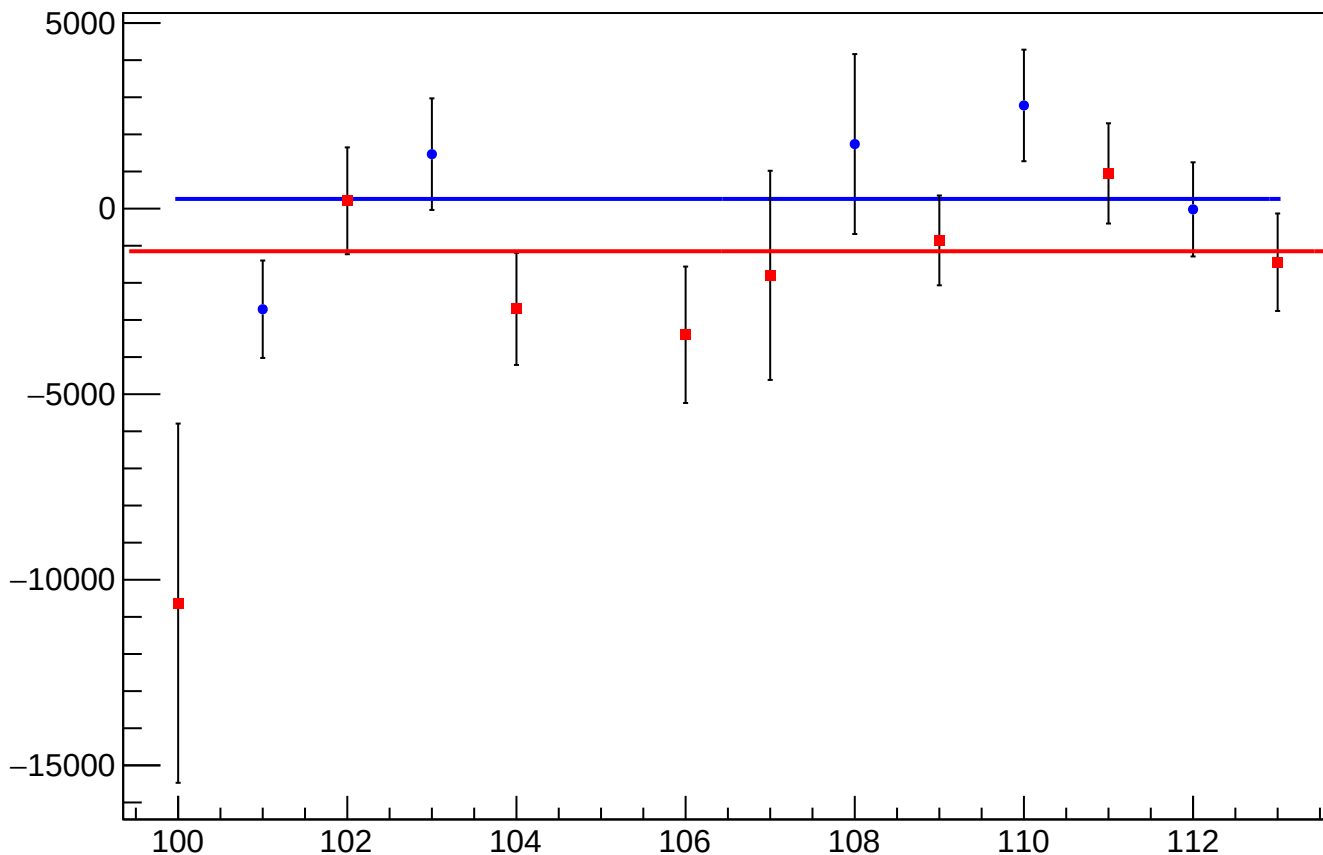
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 120.136+/-0.037  $\chi^2/\text{NDF}$ : 400788.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_avg\_reg\_correction\_mean vs Slug



Right In: 261.156+/-665.576  $\chi^2/\text{NDF}$ : 9.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1148.723+/-559.230  $\chi^2/\text{NDF}$ : 9.9/7

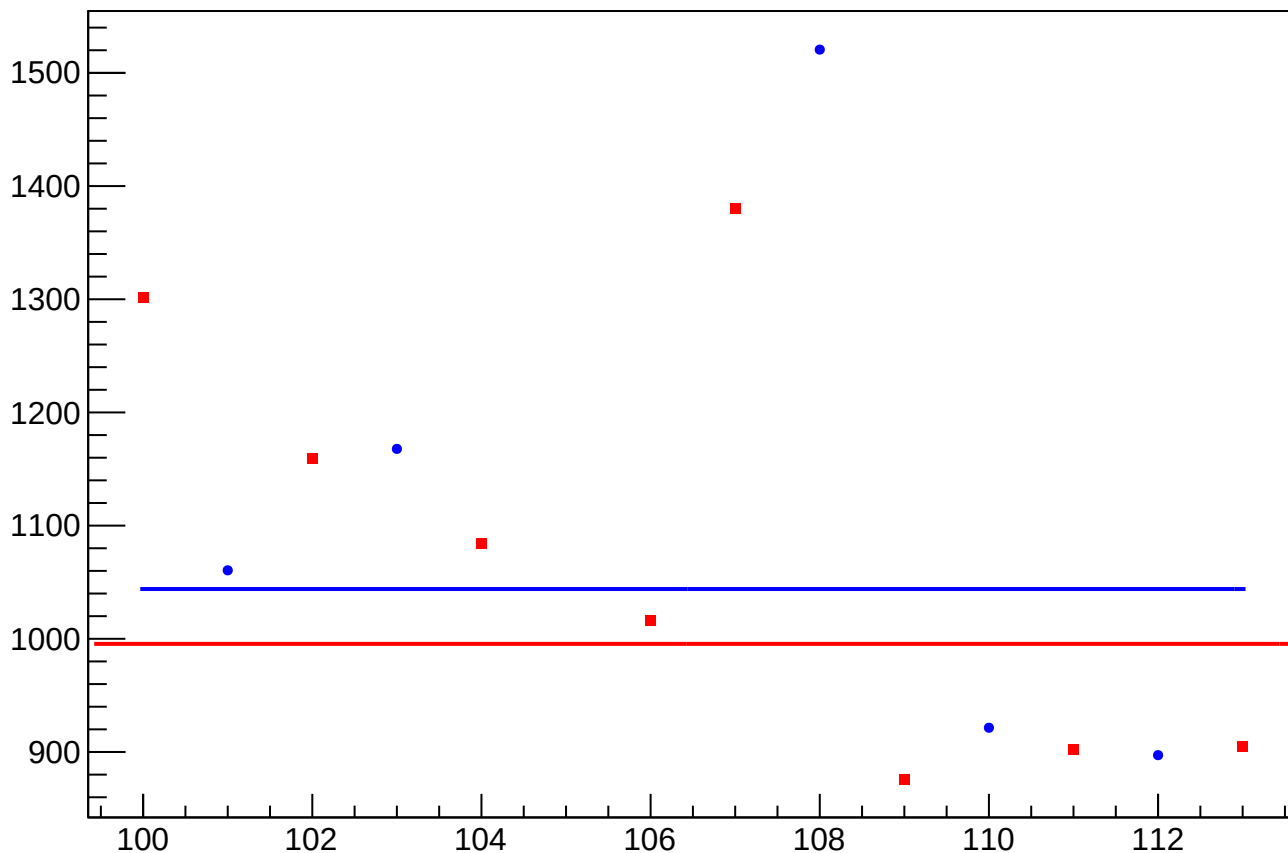
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -565.283+/-428.159  $\chi^2/\text{NDF}$ : 21.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_avg\_reg\_correction\_rms vs Slug



Right In: 1043.976+/-0.471  $\chi^2/\text{NDF}$ : 131278.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 995.526+/-0.395  $\chi^2/\text{NDF}$ : 117203.6/7

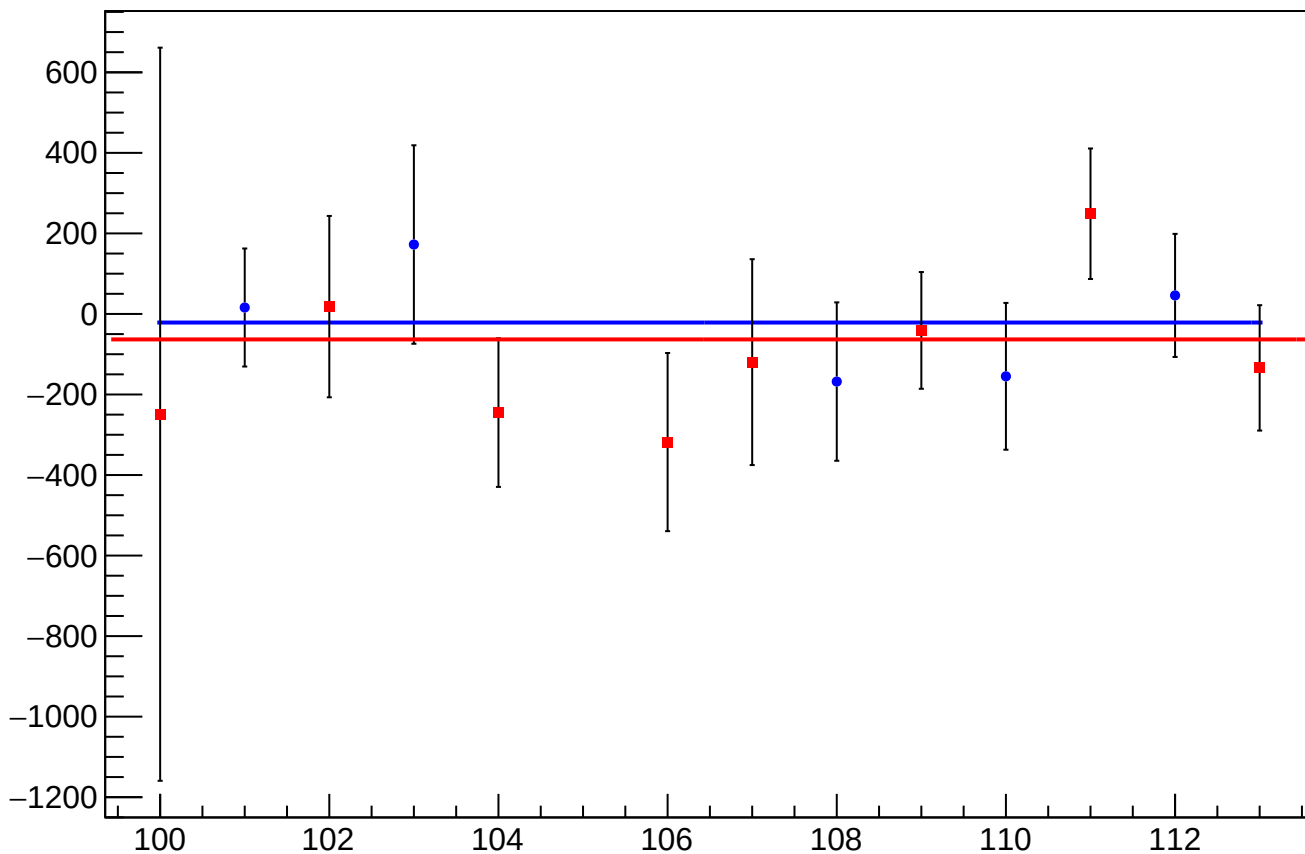
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1015.576+/-0.303  $\chi^2/\text{NDF}$ : 254694.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_48\_avg\_mean vs Slug



Right In:  $-21.321 \pm 78.616$   $\chi^2/\text{NDF}$ : 2.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-63.245 \pm 68.526$   $\chi^2/\text{NDF}$ : 6.5/7

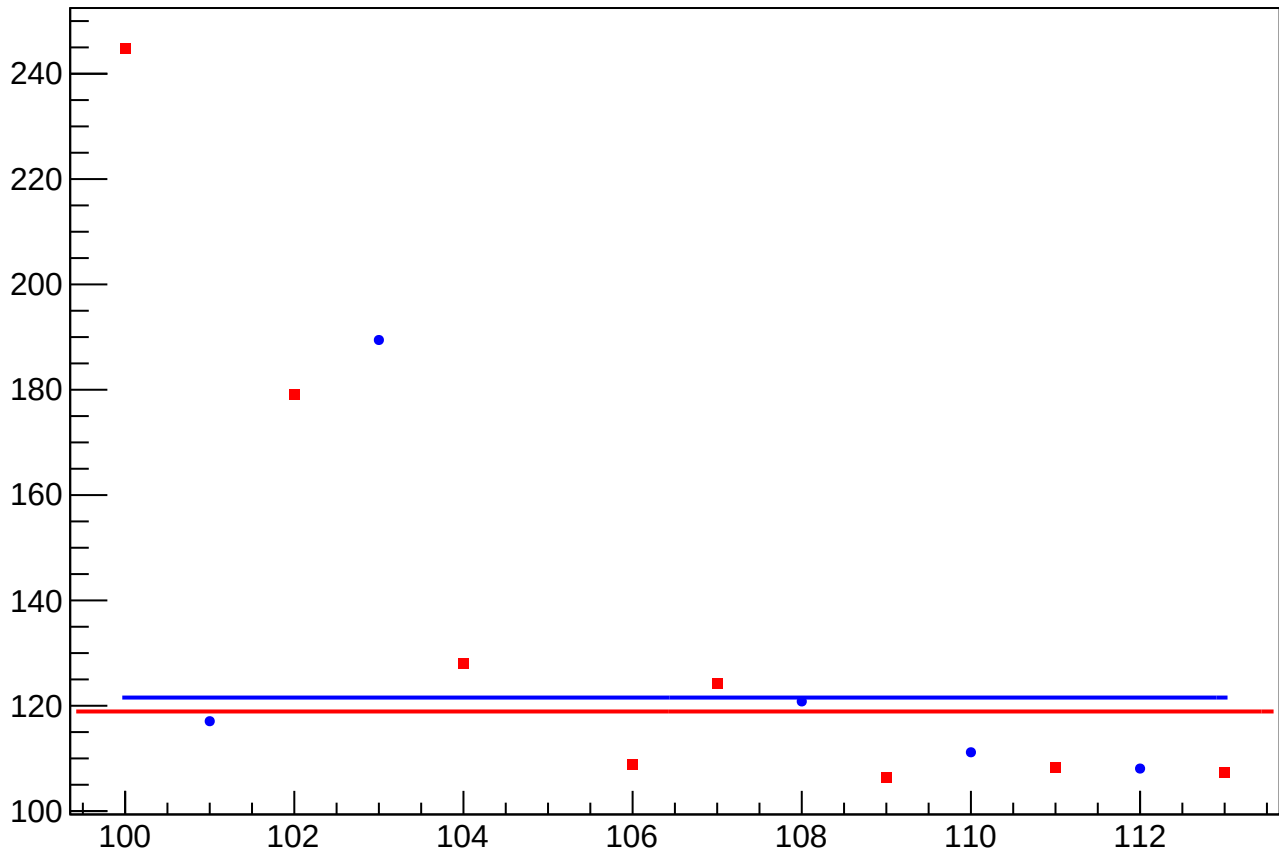
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-45.144 \pm 51.657$   $\chi^2/\text{NDF}$ : 8.6/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 121.556 $\pm$ 0.056  $\chi^2$ /NDF: 175734.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 118.912 $\pm$ 0.048  $\chi^2$ /NDF: 225359.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

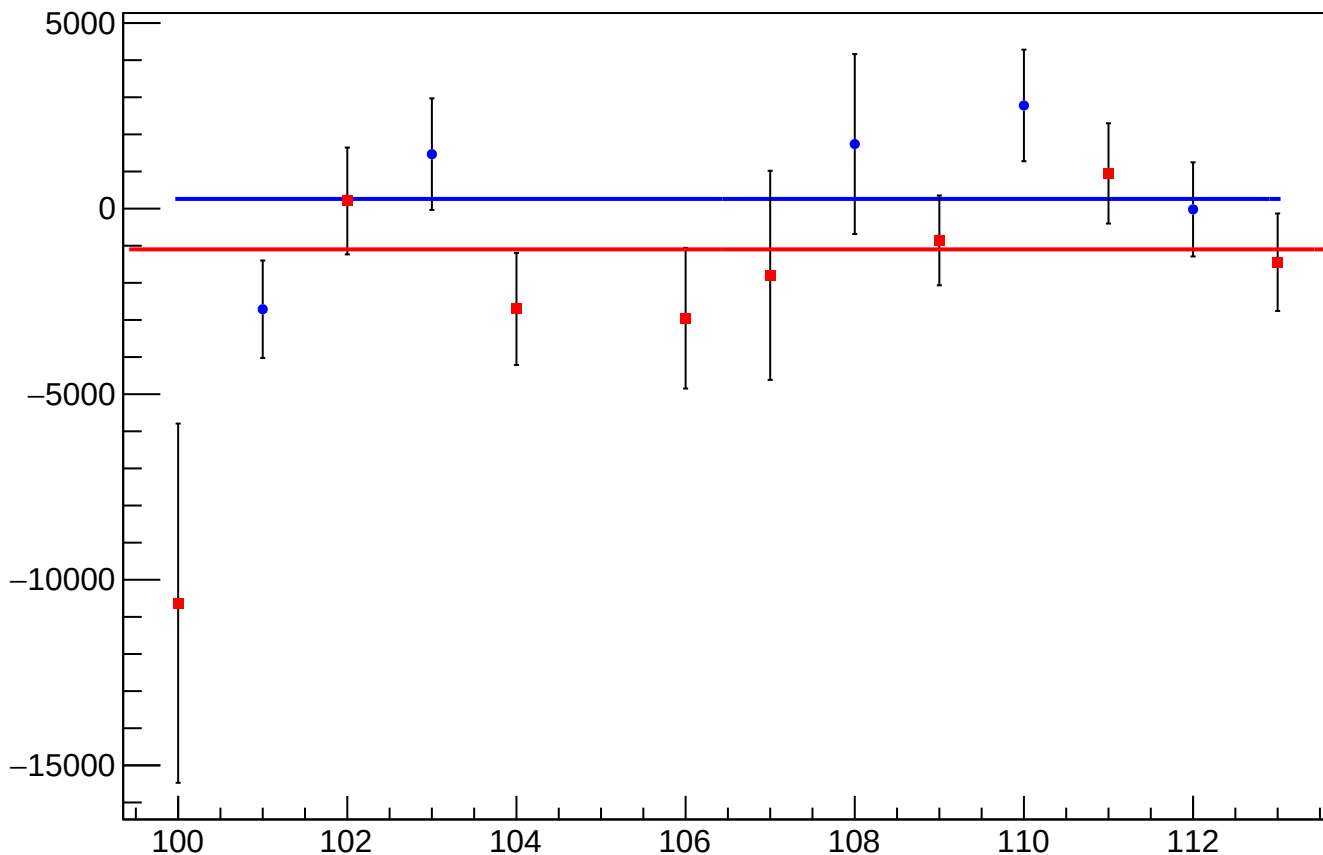
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.054 $\pm$ 0.037  $\chi^2$ /NDF: 402379.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_48\_avg\_cor\_correction\_mean vs Slug



Right In: 261.043+/-665.587  $\chi^2/\text{NDF}$ : 9.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1098.453+/-560.804  $\chi^2/\text{NDF}$ : 9.3/7

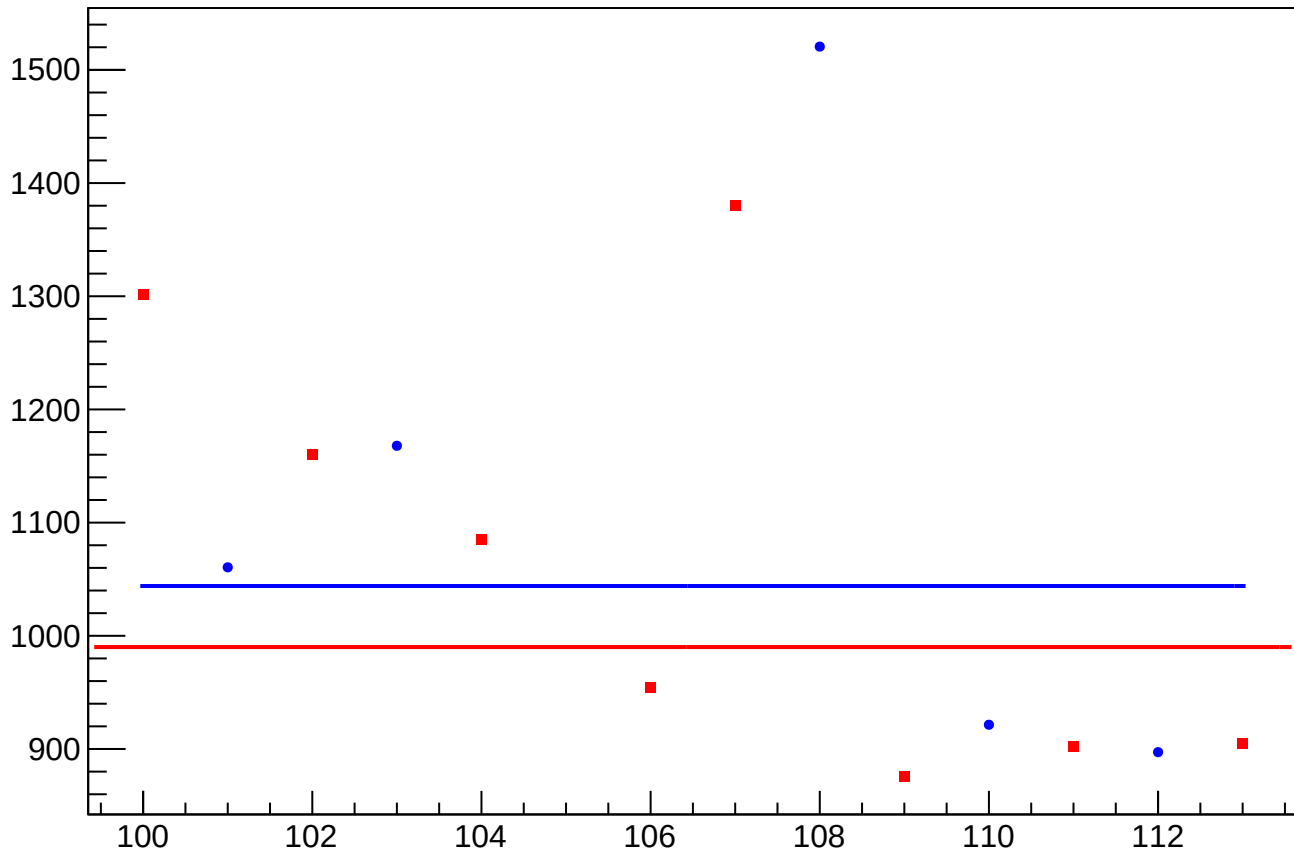
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -534.020+/-428.867  $\chi^2/\text{NDF}$ : 20.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_avg\_cor\_correction\_rms vs Slug



Right In: 1043.992 $\pm$ 0.471  $\chi^2$ /NDF: 131298.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 990.059 $\pm$ 0.397  $\chi^2$ /NDF: 117890.7/7

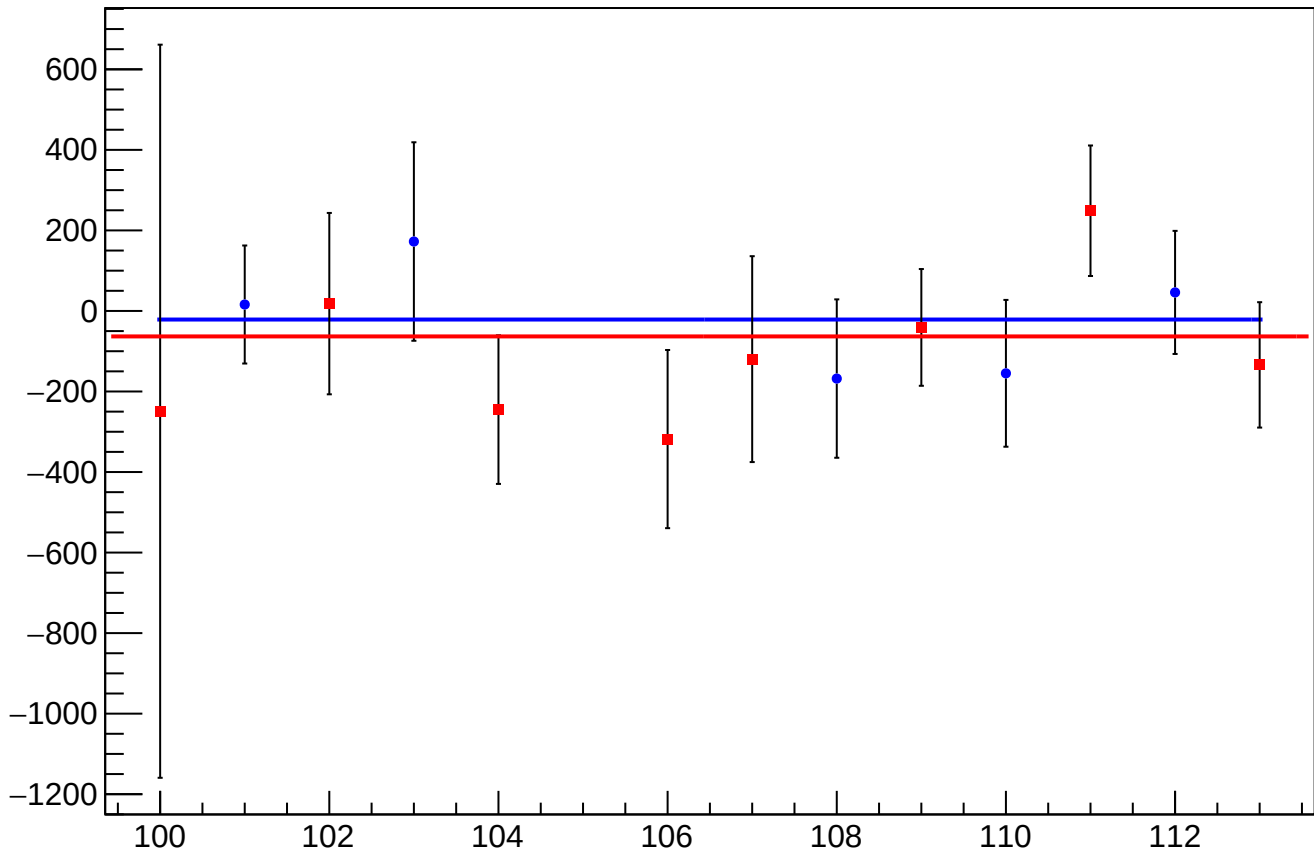
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1012.451 $\pm$ 0.303  $\chi^2$ /NDF: 256869.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_48\_avg\_mean vs Slug



Right In: -21.321 $\pm$ 78.616  $\chi^2$ /NDF: 2.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -63.245 $\pm$ 68.526  $\chi^2$ /NDF: 6.5/7

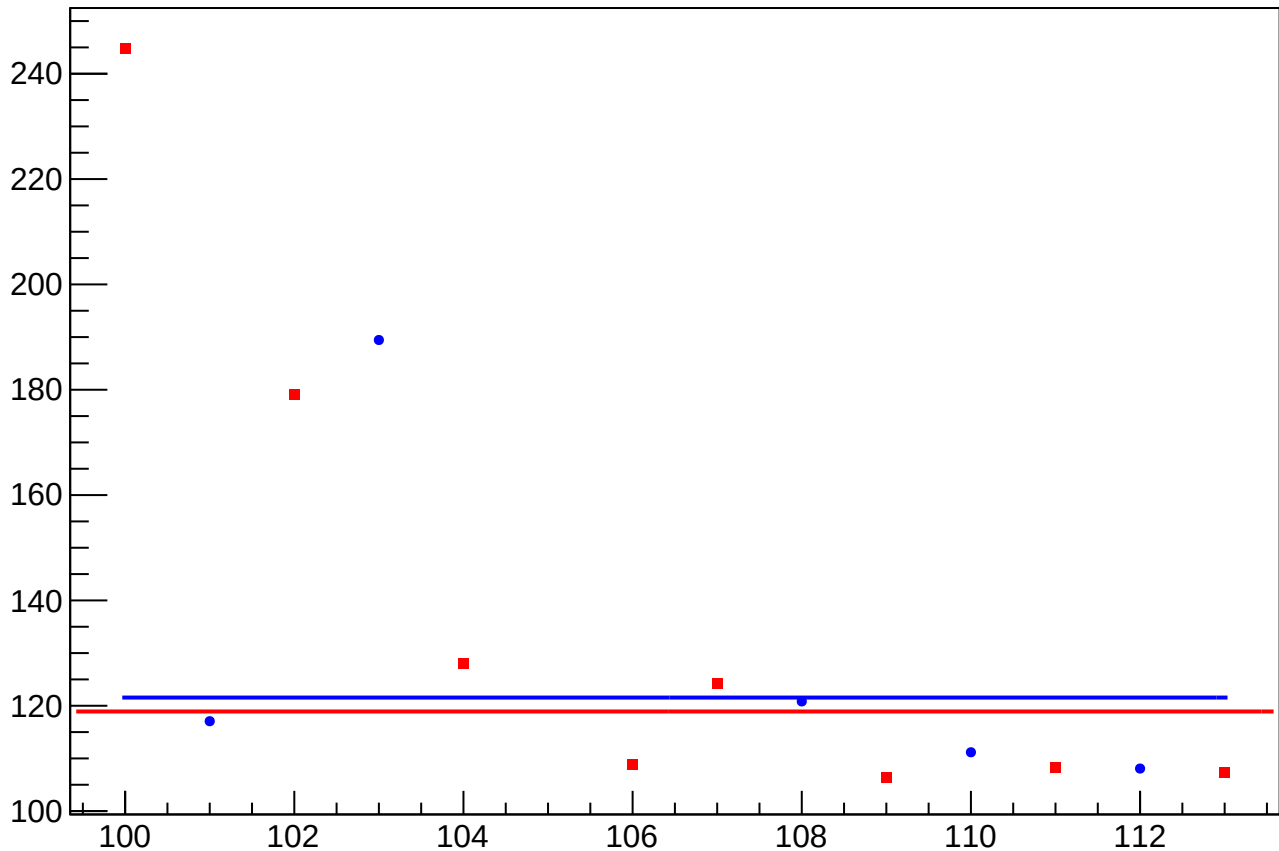
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -45.144 $\pm$ 51.657  $\chi^2$ /NDF: 8.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 121.556+/-0.056  $\chi^2/\text{NDF}$ : 175734.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 118.912+/-0.048  $\chi^2/\text{NDF}$ : 225359.2/7

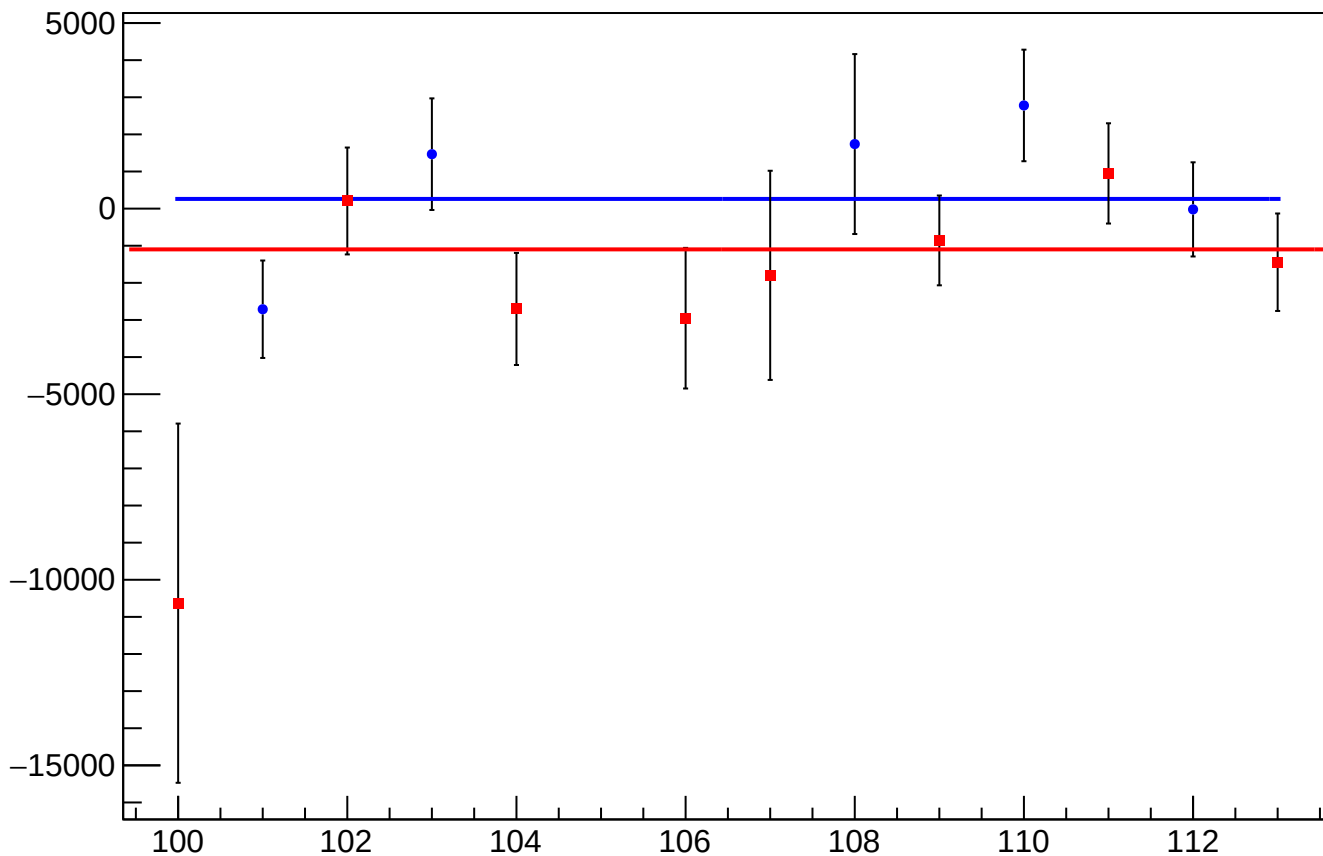
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 120.054+/-0.037  $\chi^2/\text{NDF}$ : 402379.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 261.043+/-665.587  $\chi^2/\text{NDF}$ : 9.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1098.453+/-560.804  $\chi^2/\text{NDF}$ : 9.3/7

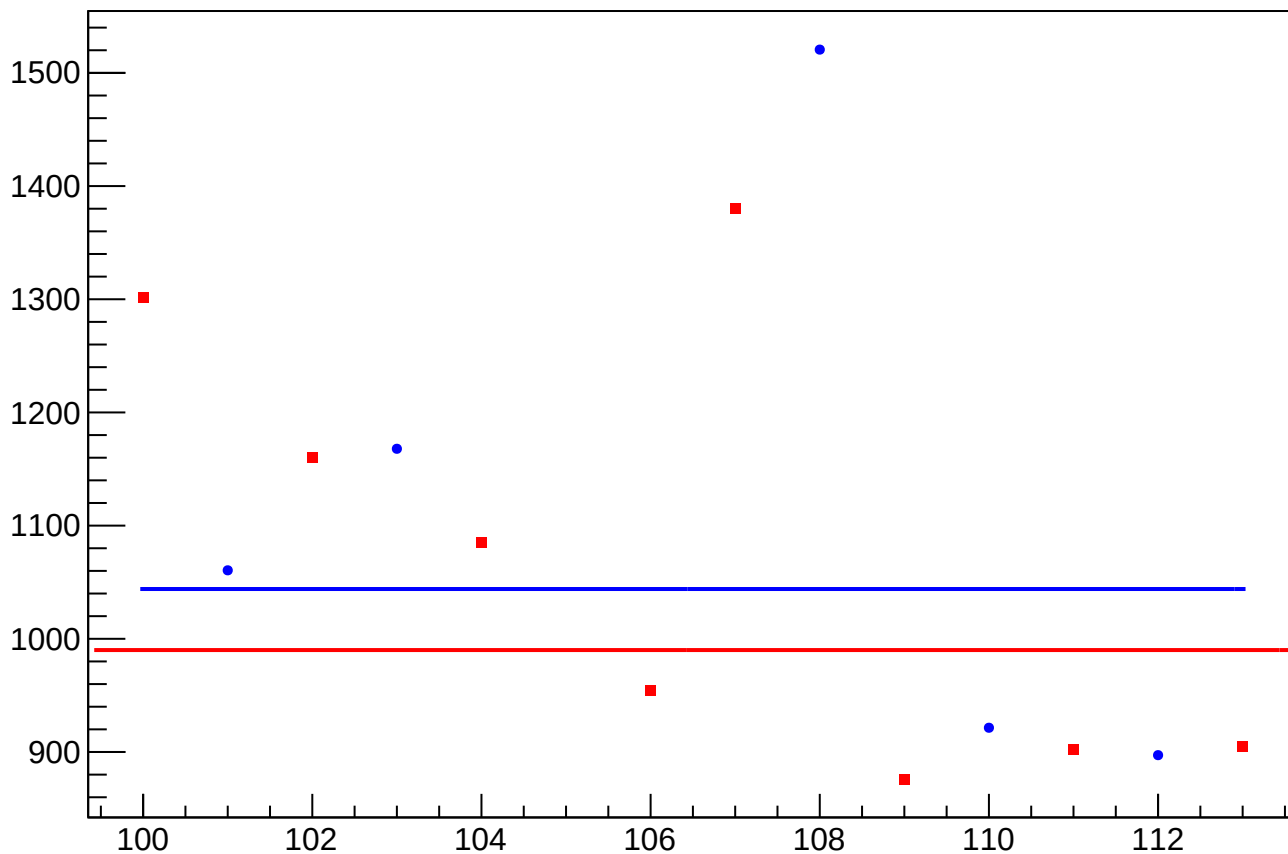
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -534.020+/-428.867  $\chi^2/\text{NDF}$ : 20.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1043.992 $\pm$ 0.471  $\chi^2$ /NDF: 131298.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 990.059 $\pm$ 0.397  $\chi^2$ /NDF: 117890.7/7

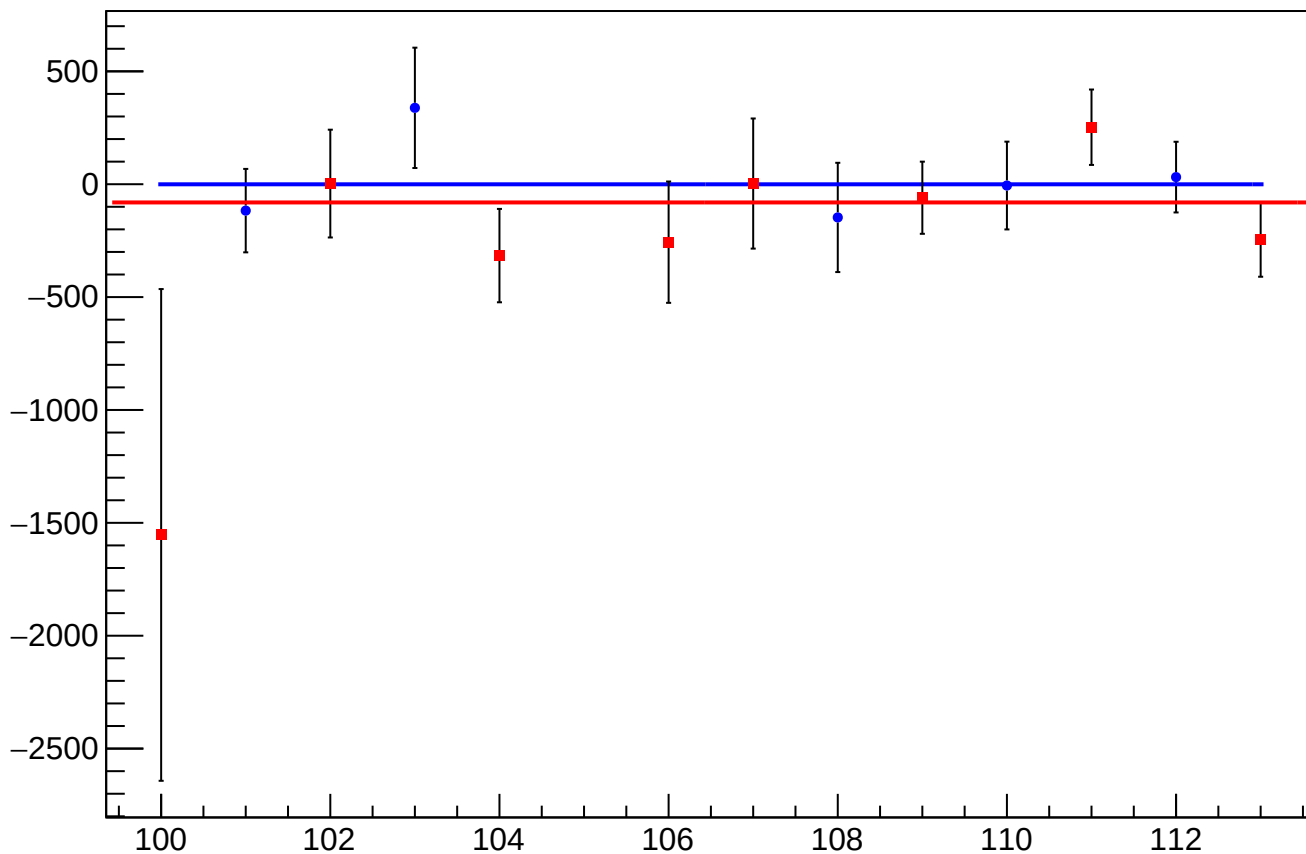
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1012.451 $\pm$ 0.303  $\chi^2$ /NDF: 256869.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_48\_avg\_mean vs Slug



Right In:  $-0.375 \pm 88.492$   $\chi^2/\text{NDF}$ : 2.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-80.743 \pm 74.642$   $\chi^2/\text{NDF}$ : 8.8/7

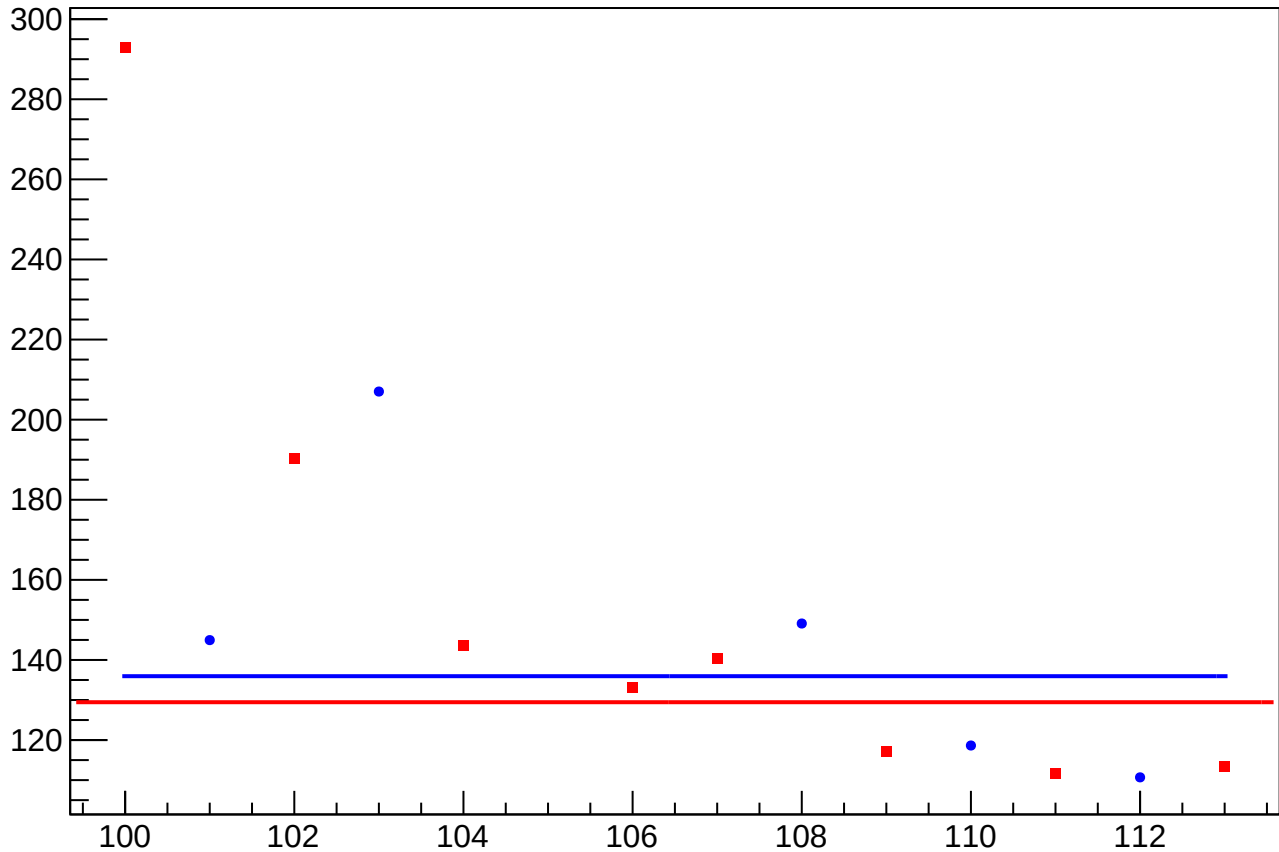
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-47.333 \pm 57.056$   $\chi^2/\text{NDF}$ : 11.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 135.949 $\pm$ 0.063  $\chi^2$ /NDF: 220799.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 129.451 $\pm$ 0.053  $\chi^2$ /NDF: 241285.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

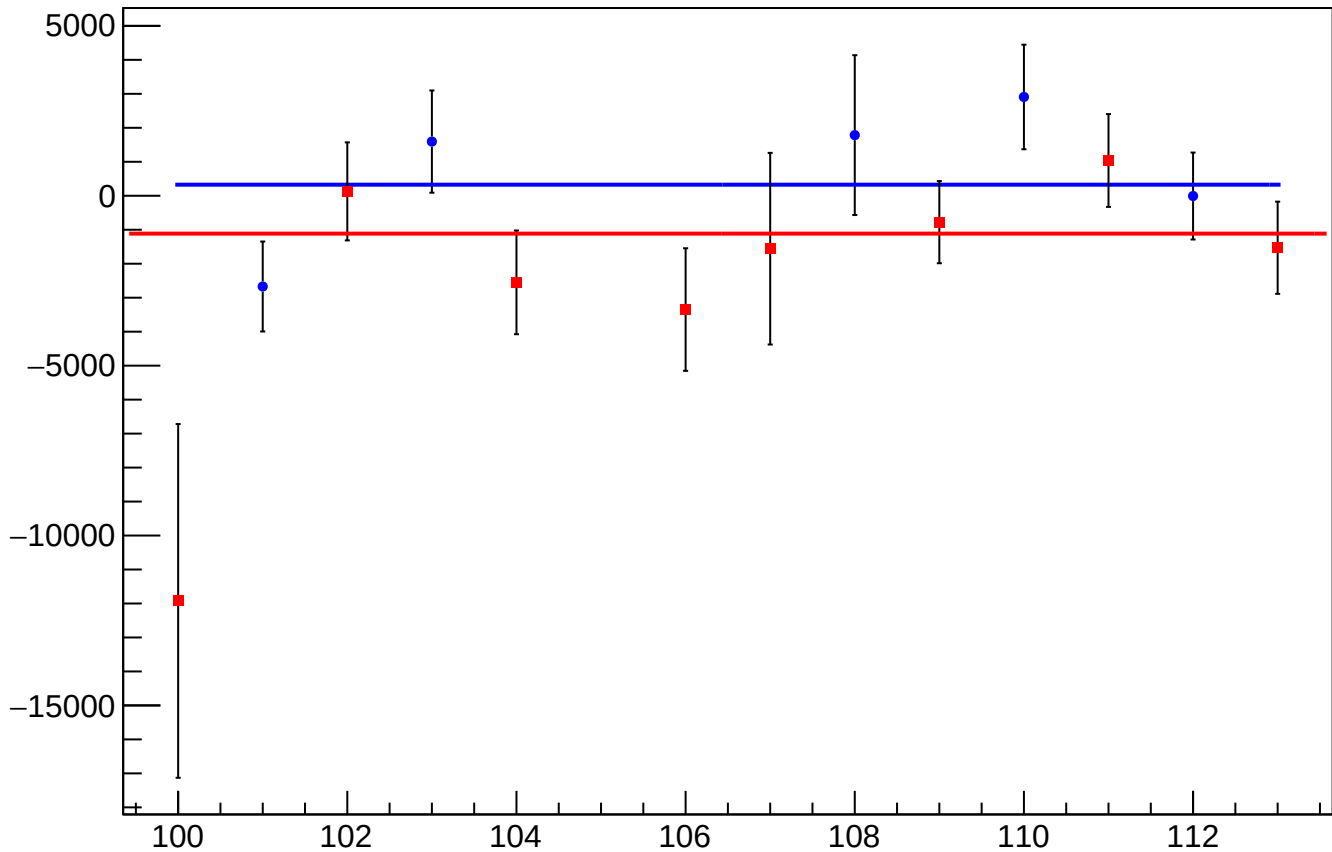
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 132.152 $\pm$ 0.040  $\chi^2$ /NDF: 468385.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_48\_avg\_dit\_correction\_mean vs Slug



Right In: 325.910 $\pm$ 670.173  $\chi^2$ /NDF: 9.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1114.303 $\pm$ 564.018  $\chi^2$ /NDF: 10.2/7

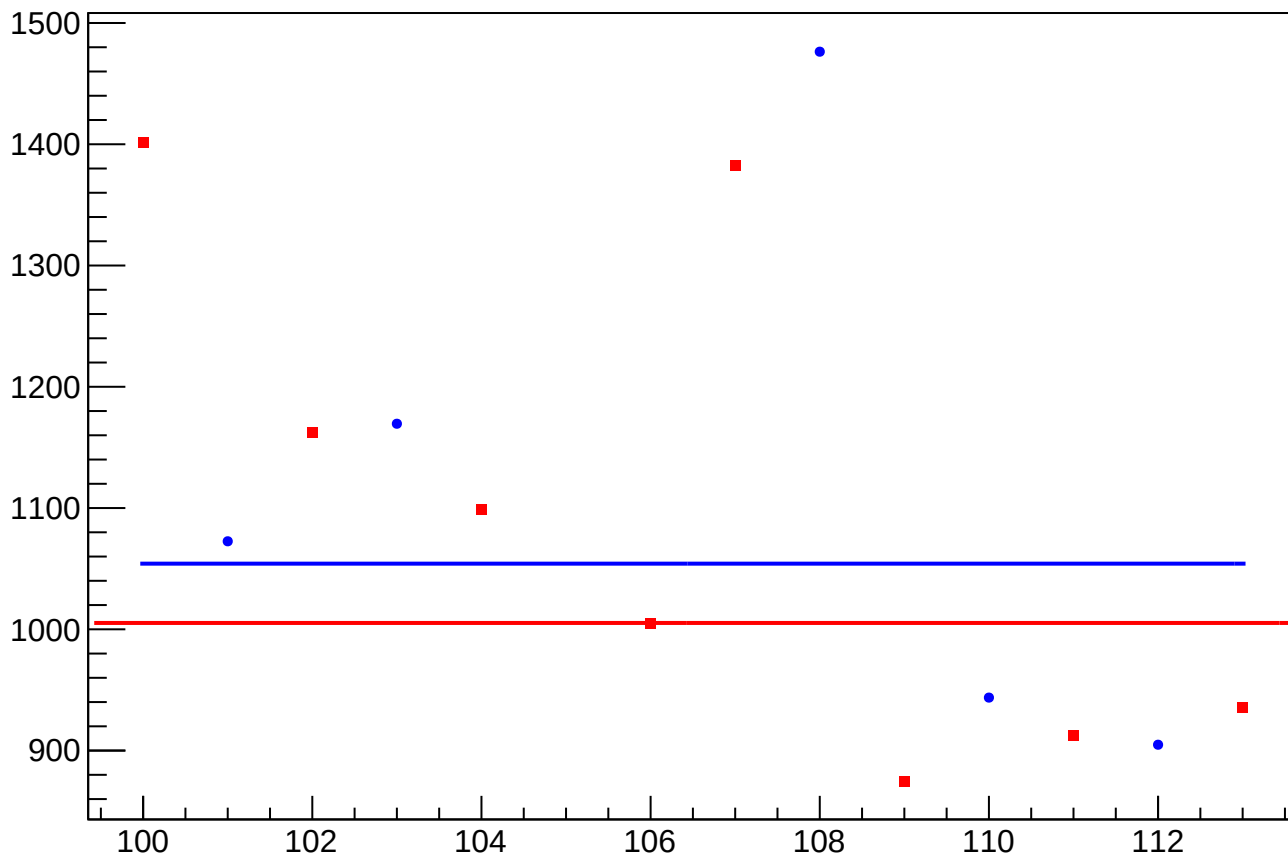
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -517.163 $\pm$ 431.531  $\chi^2$ /NDF: 22.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_avg\_dit\_correction\_rms vs Slug



Right In: 1054.142 $\pm$ 0.474  $\chi^2$ /NDF: 114138.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1005.238 $\pm$ 0.399  $\chi^2$ /NDF: 116516.7/7

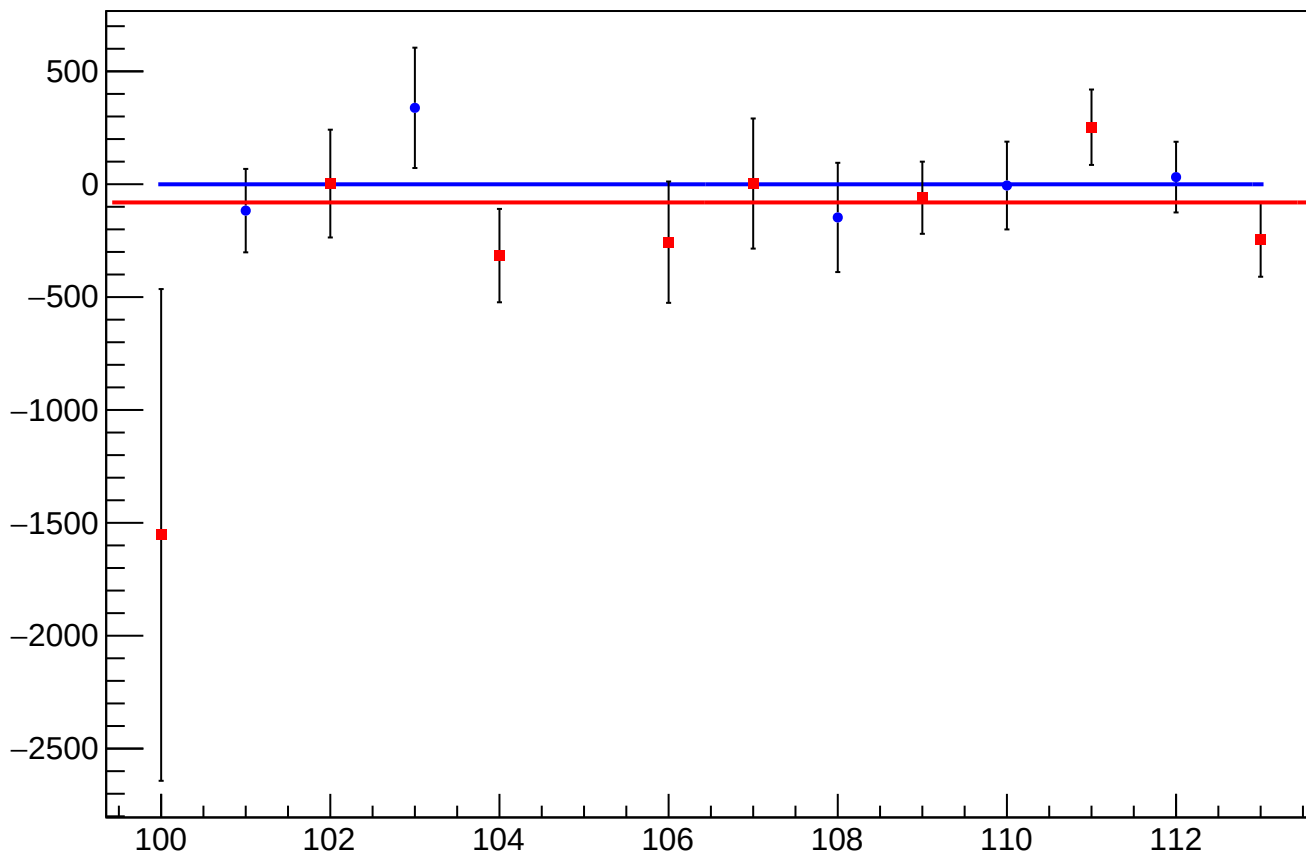
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1025.514 $\pm$ 0.305  $\chi^2$ /NDF: 236889.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_48\_avg\_mean vs Slug



Right In: -0.374+/-88.492  $\chi^2/\text{NDF}$ : 2.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -80.741+/-74.642  $\chi^2/\text{NDF}$ : 8.8/7

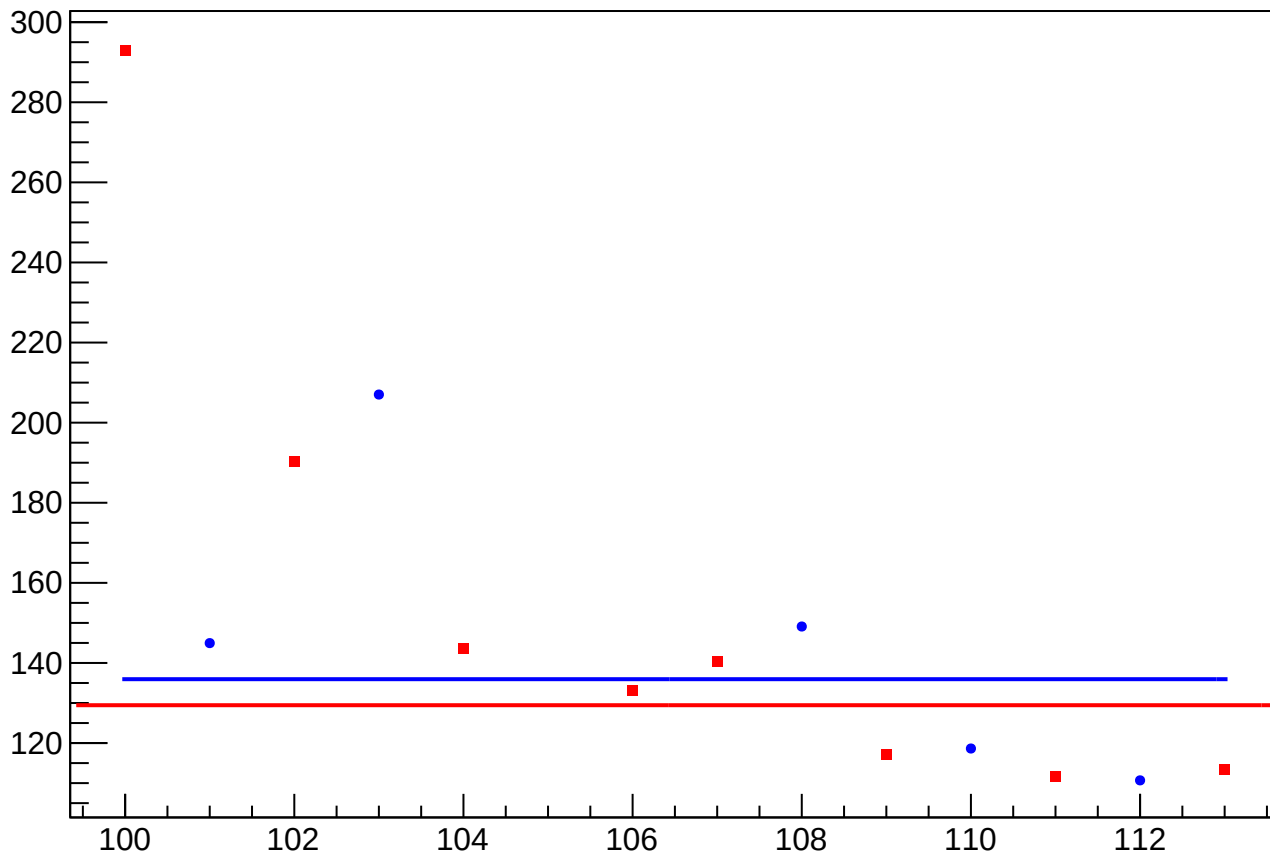
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -47.332+/-57.056  $\chi^2/\text{NDF}$ : 11.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 135.949+/-0.063  $\chi^2/\text{NDF}$ : 220802.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 129.451+/-0.053  $\chi^2/\text{NDF}$ : 241287.1/7

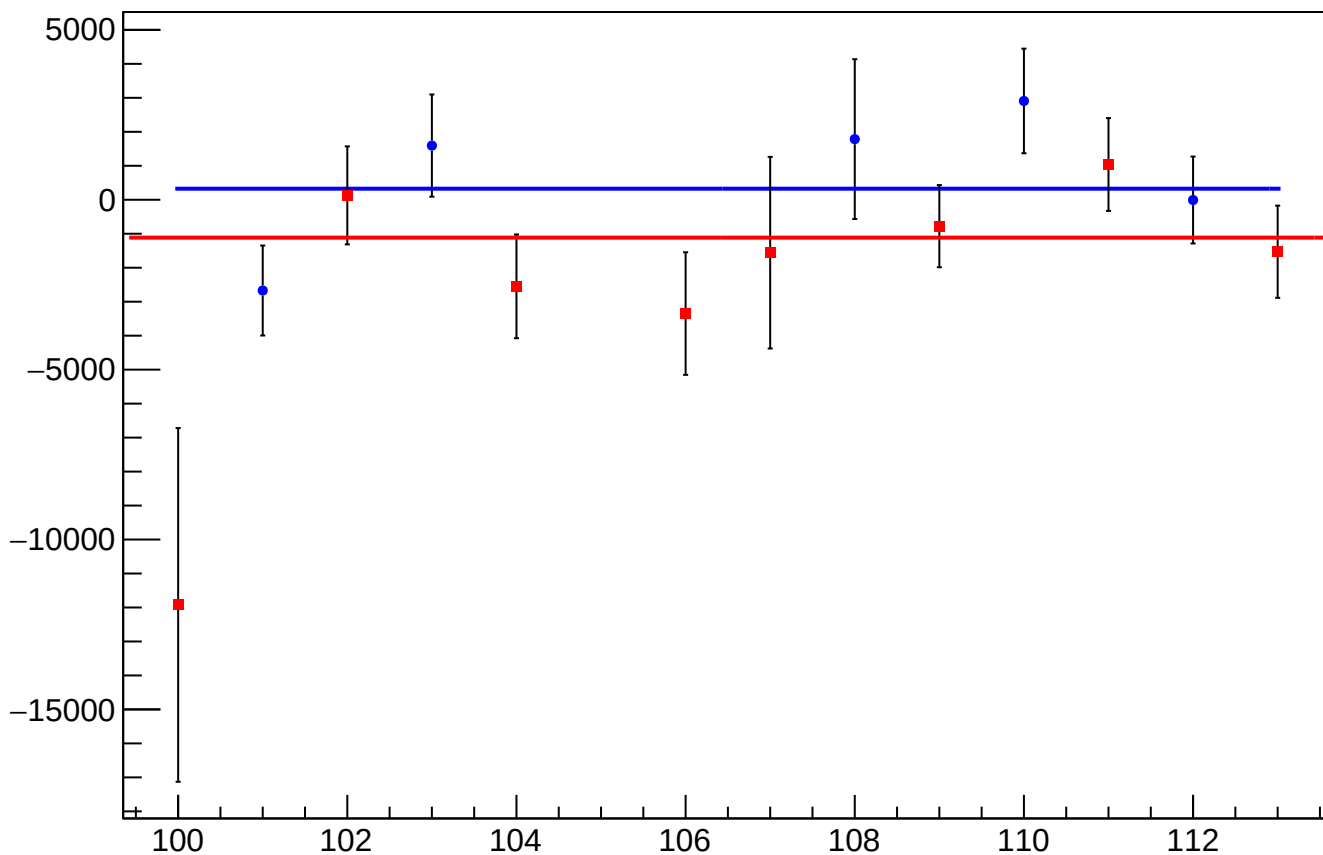
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 132.152+/-0.040  $\chi^2/\text{NDF}$ : 468391.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 325.910 $\pm$ 670.173  $\chi^2$ /NDF: 9.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1114.301 $\pm$ 564.018  $\chi^2$ /NDF: 10.2/7

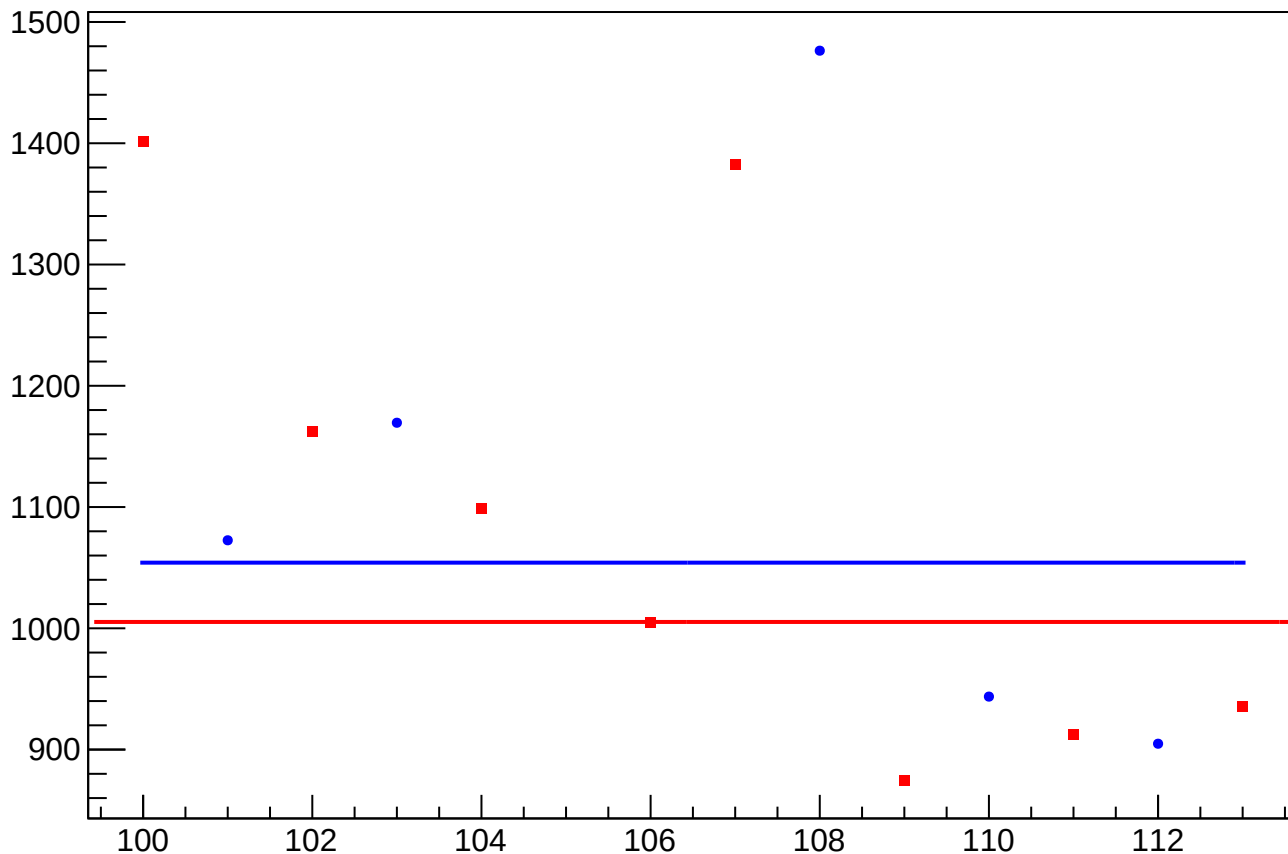
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -517.161 $\pm$ 431.531  $\chi^2$ /NDF: 22.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1054.141 $\pm$ 0.474  $\chi^2$ /NDF: 114139.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1005.236 $\pm$ 0.399  $\chi^2$ /NDF: 116517.7/7

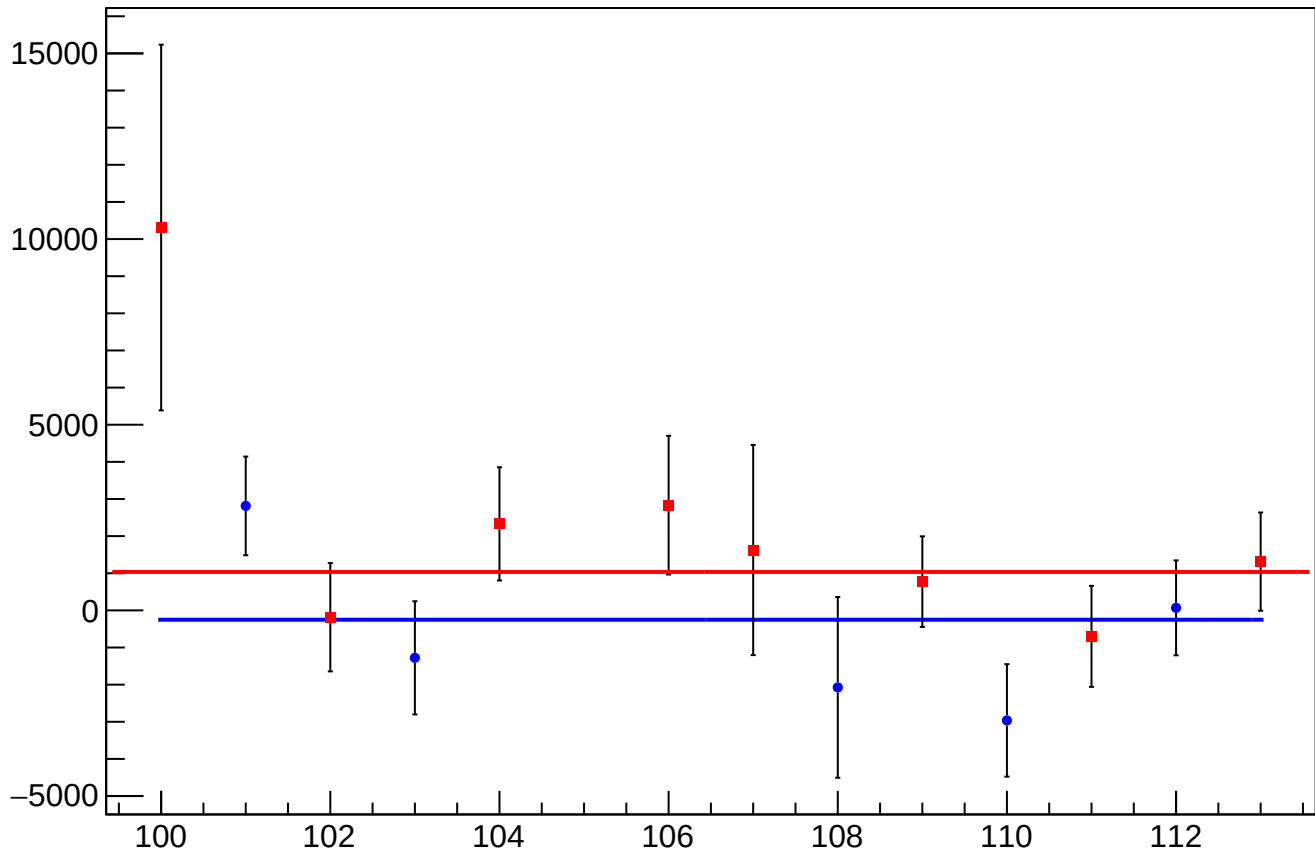
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1025.513 $\pm$ 0.305  $\chi^2$ /NDF: 236891.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_avg\_mean vs Slug



Right In: -251.640+/-672.056  $\chi^2$ /NDF: 9.6/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1035.880+/-564.451  $\chi^2$ /NDF: 7.7/7

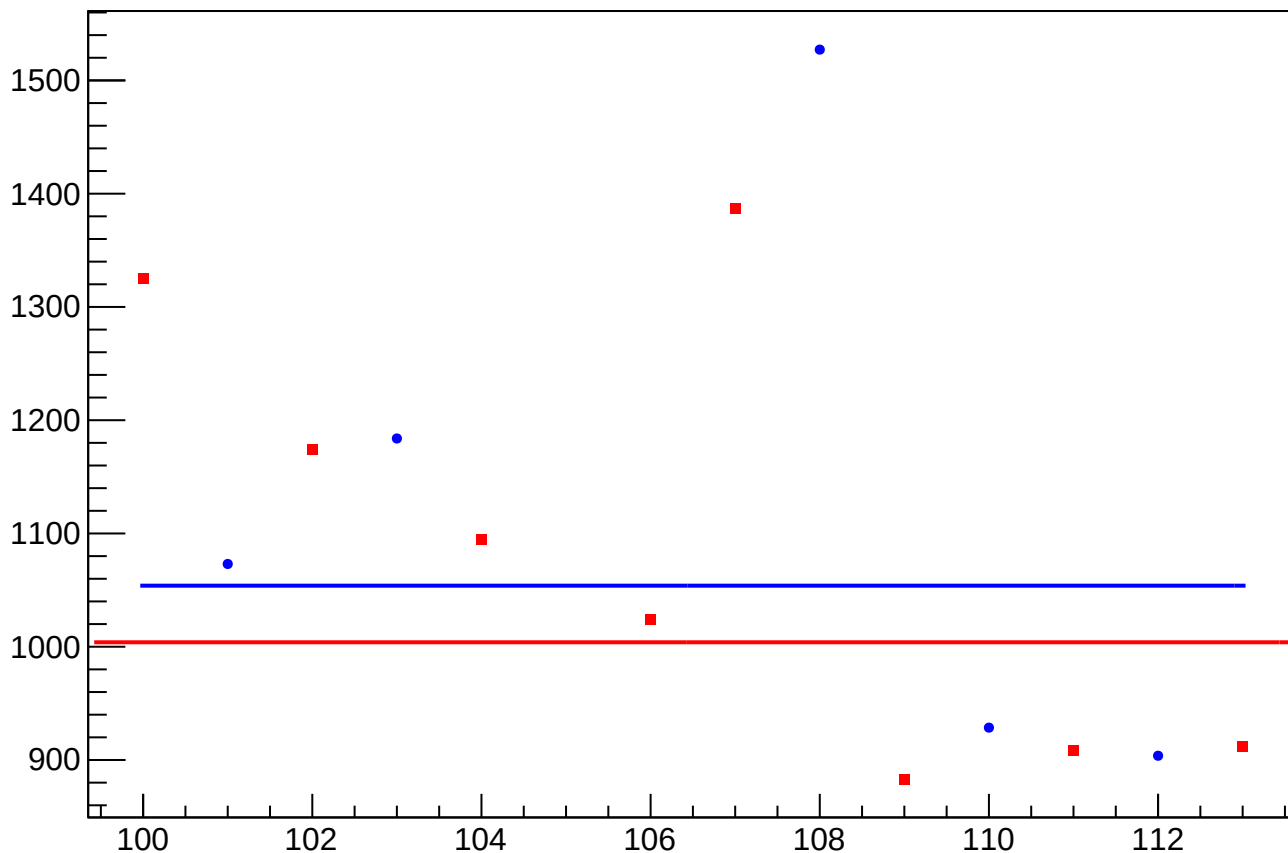
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 503.322+/-432.227  $\chi^2$ /NDF: 19.4/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_avg\_rms vs Slug



Right In: 1053.909 $\pm$ 0.475  $\chi^2$ /NDF: 131875.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1003.924 $\pm$ 0.399  $\chi^2$ /NDF: 118978.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

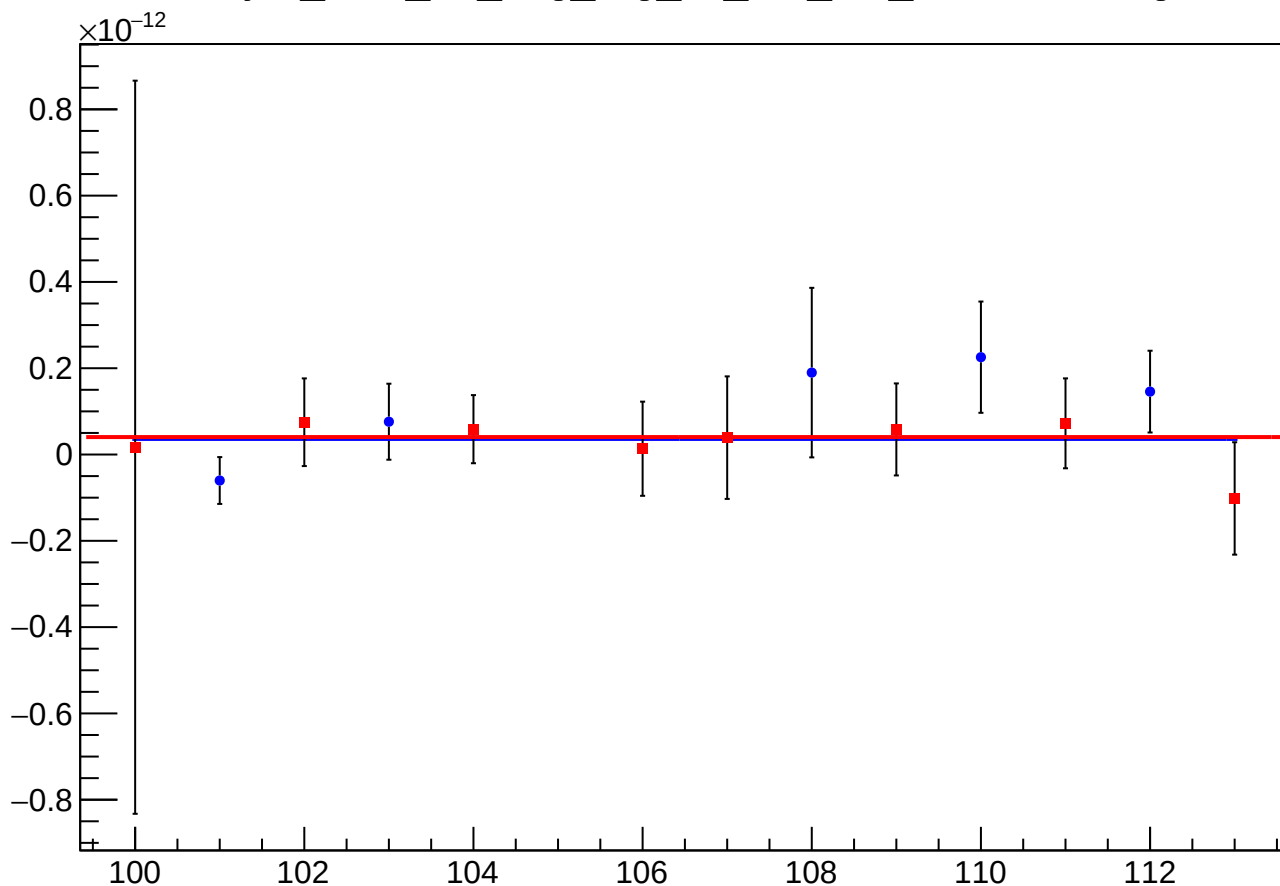
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1024.600 $\pm$ 0.306  $\chi^2$ /NDF: 257341.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_48\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.5/7

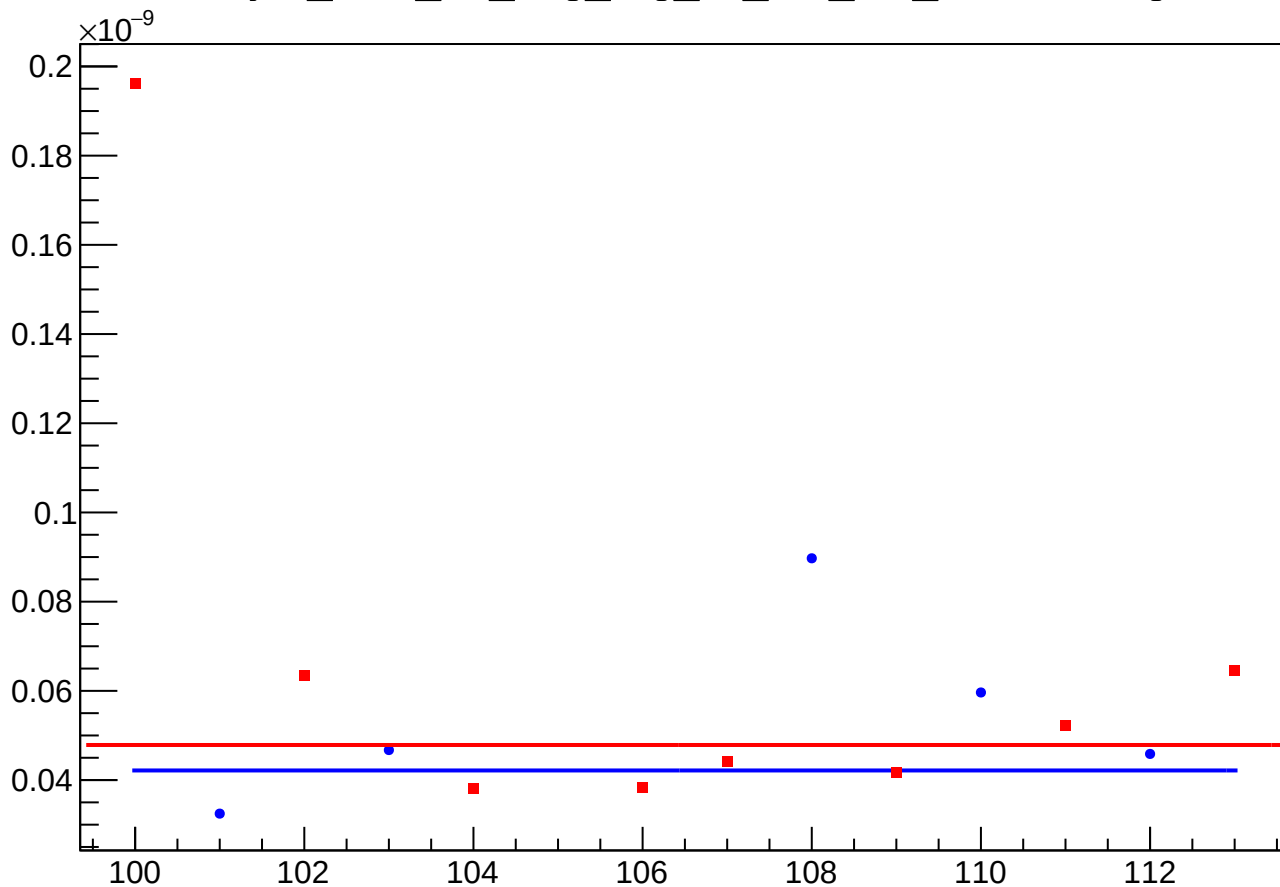
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 226118.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 199048.6/7

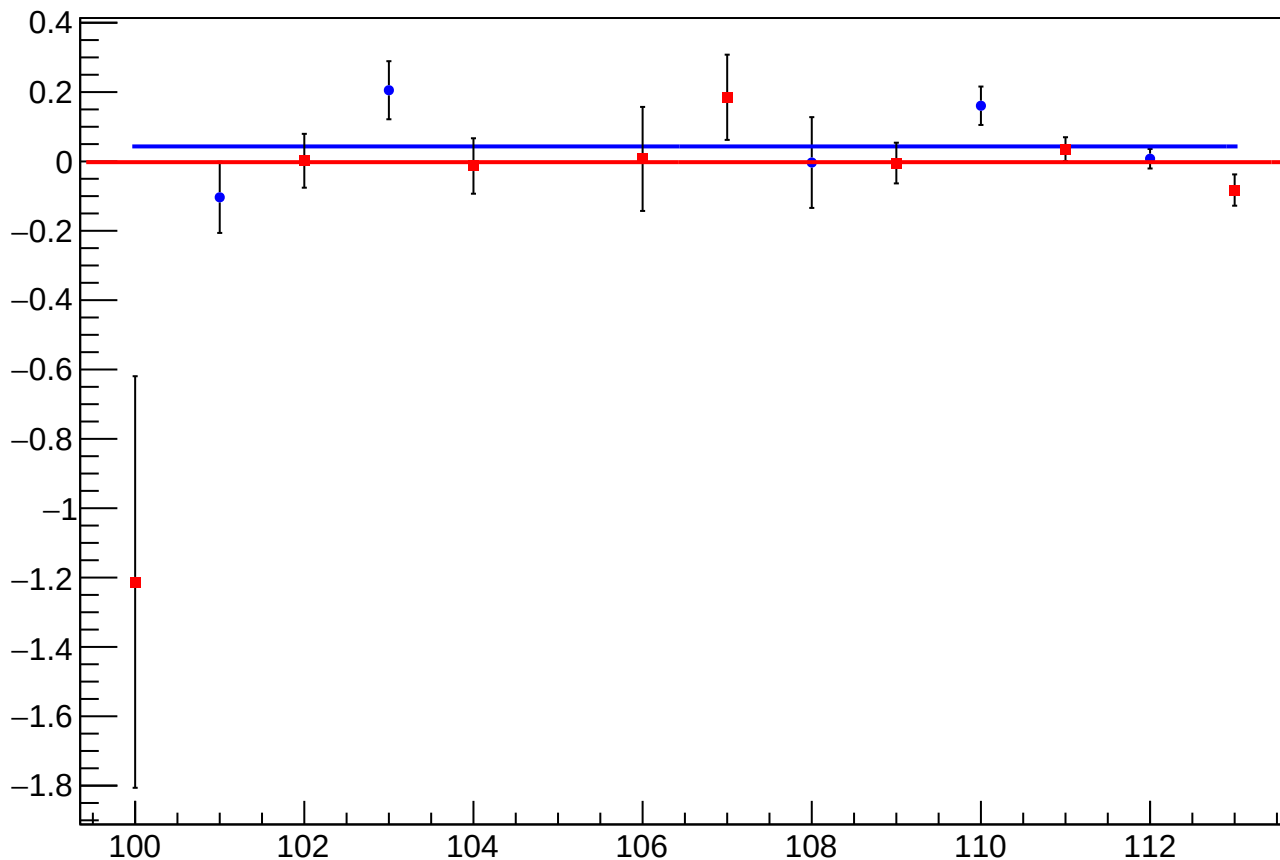
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 446309.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.043 $\pm$ 0.023  $\chi^2$ /NDF: 12.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.002 $\pm$ 0.022  $\chi^2$ /NDF: 10.9/7

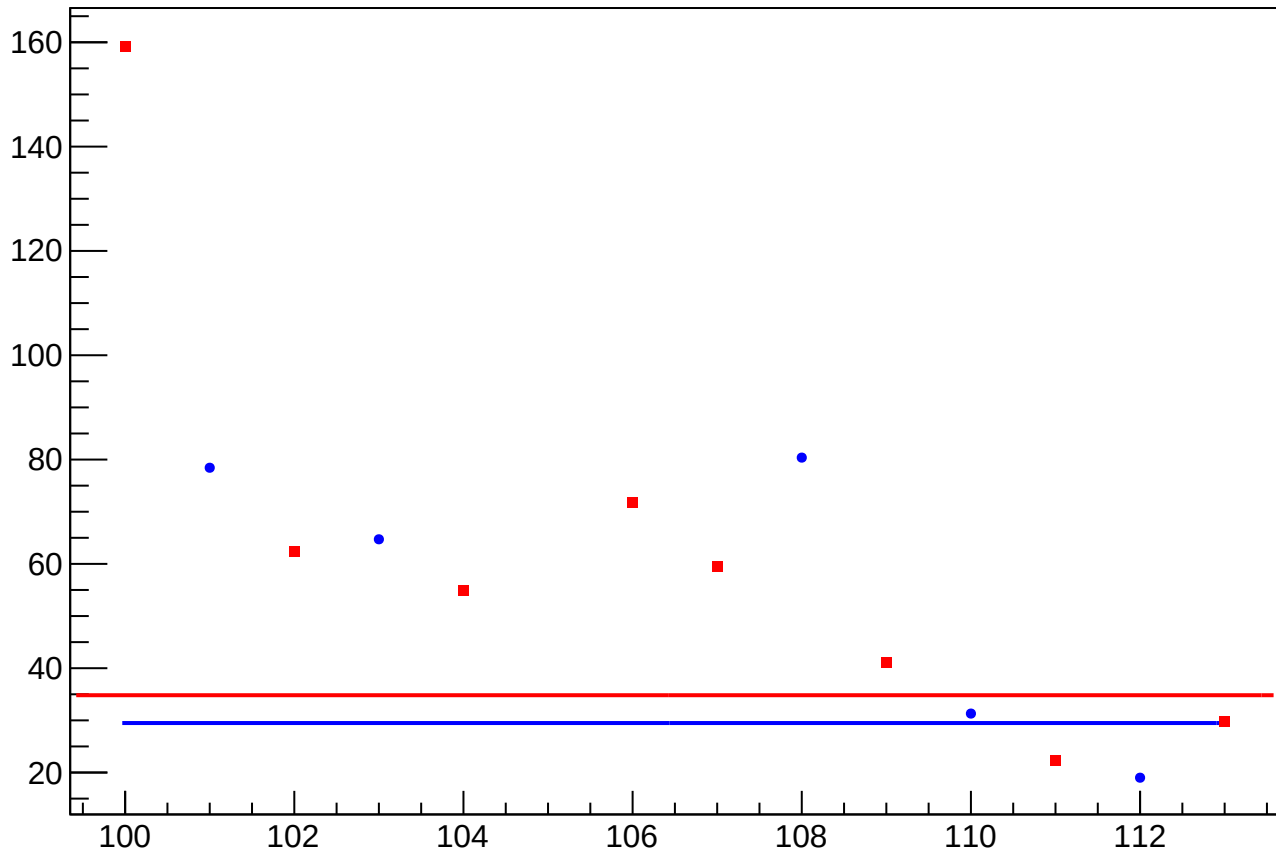
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.020 $\pm$ 0.016  $\chi^2$ /NDF: 24.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 29.488+/-0.016  $\chi^2/\text{NDF}$ : 1389446.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 34.821+/-0.016  $\chi^2/\text{NDF}$ : 983414.6/7

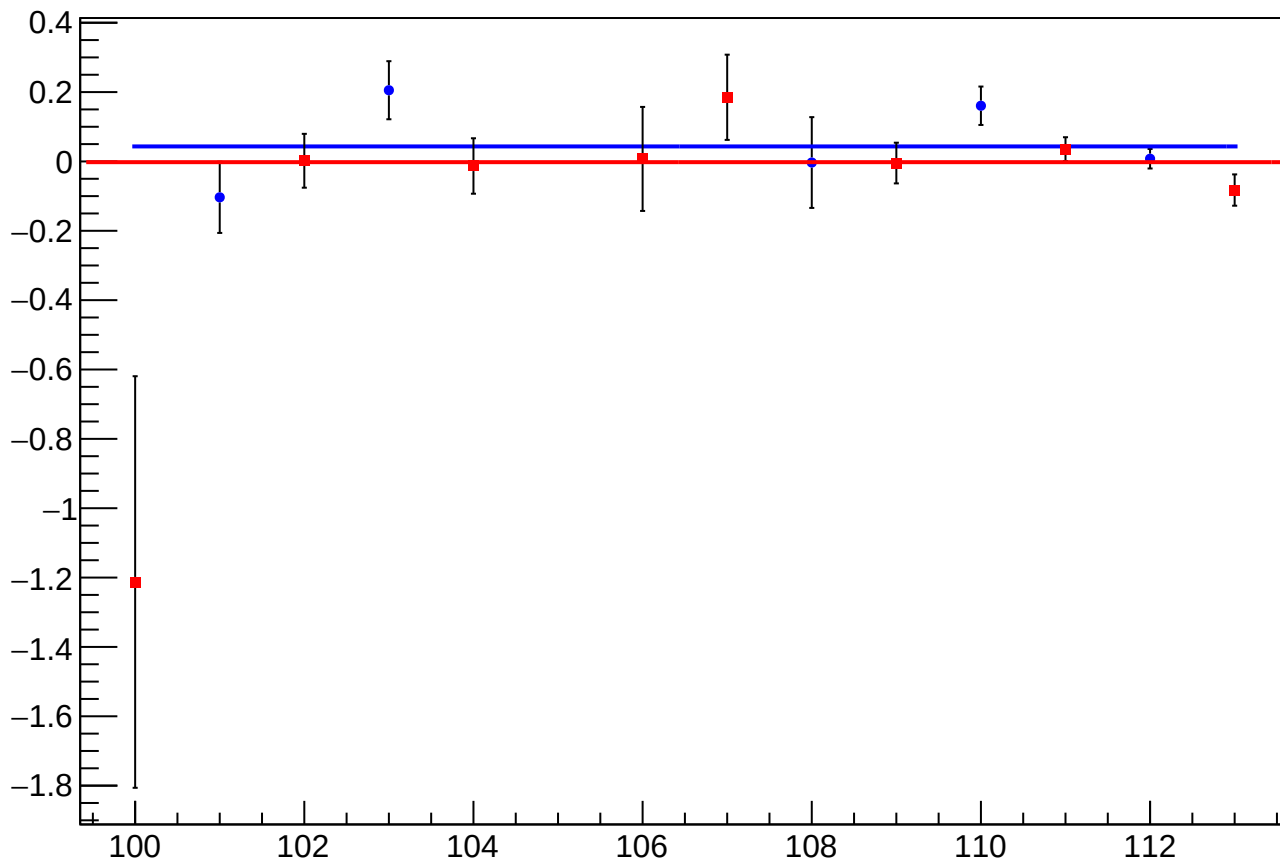
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.278+/-0.011  $\chi^2/\text{NDF}$ : 2428906.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.043 $\pm$ 0.023  $\chi^2$ /NDF: 12.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.002 $\pm$ 0.022  $\chi^2$ /NDF: 10.9/7

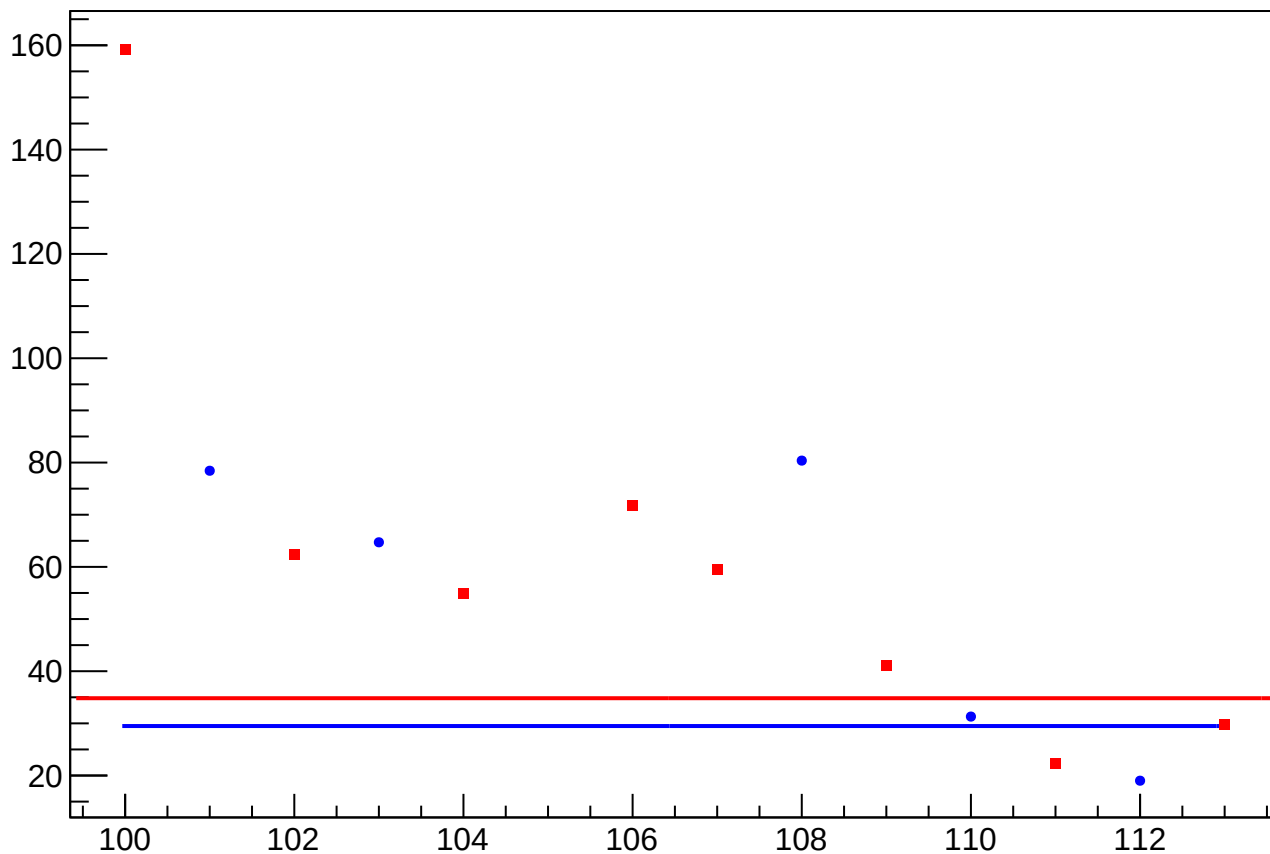
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.020 $\pm$ 0.016  $\chi^2$ /NDF: 24.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 29.488+/-0.016  $\chi^2/\text{NDF}$ : 1389446.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 34.821+/-0.016  $\chi^2/\text{NDF}$ : 983414.6/7

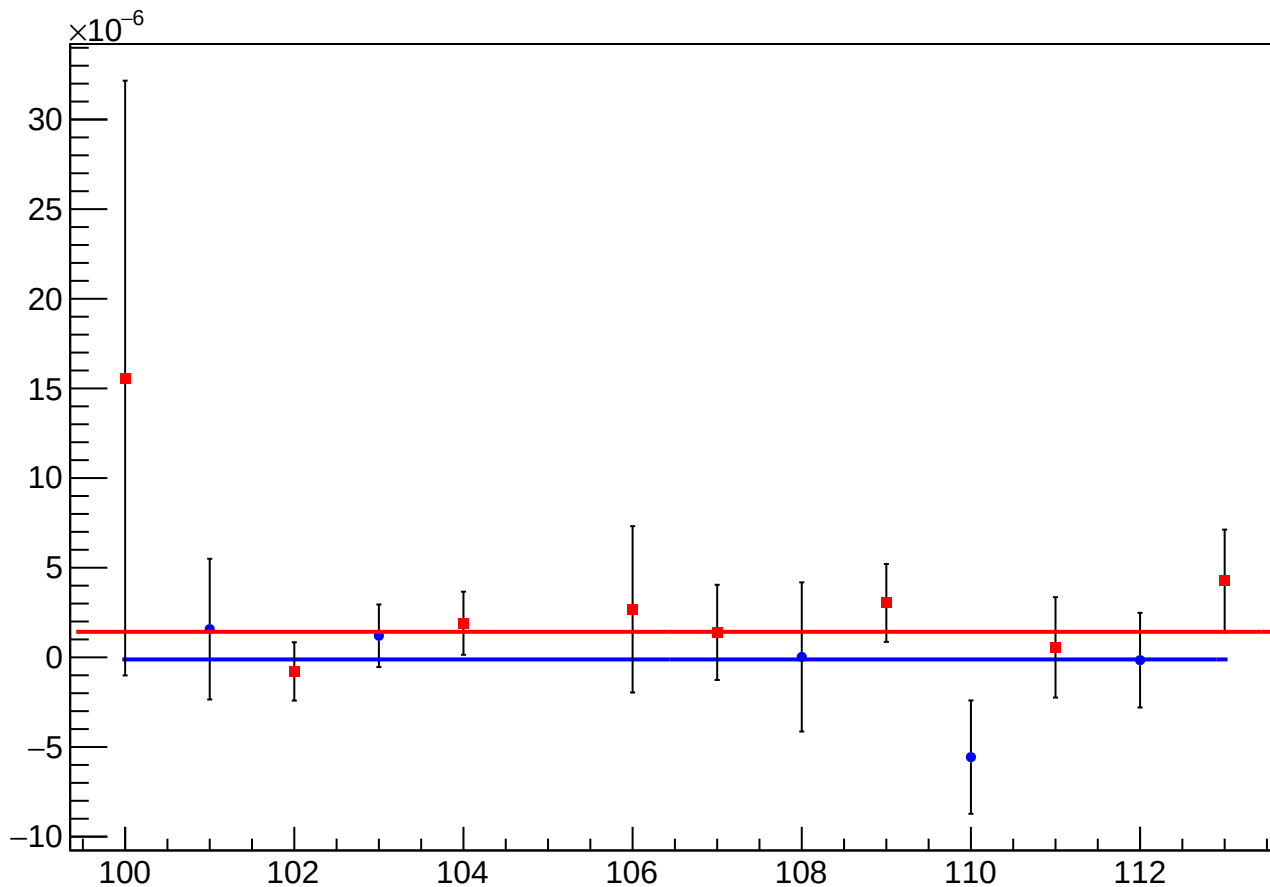
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.278+/-0.011  $\chi^2/\text{NDF}$ : 2428906.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.3/7

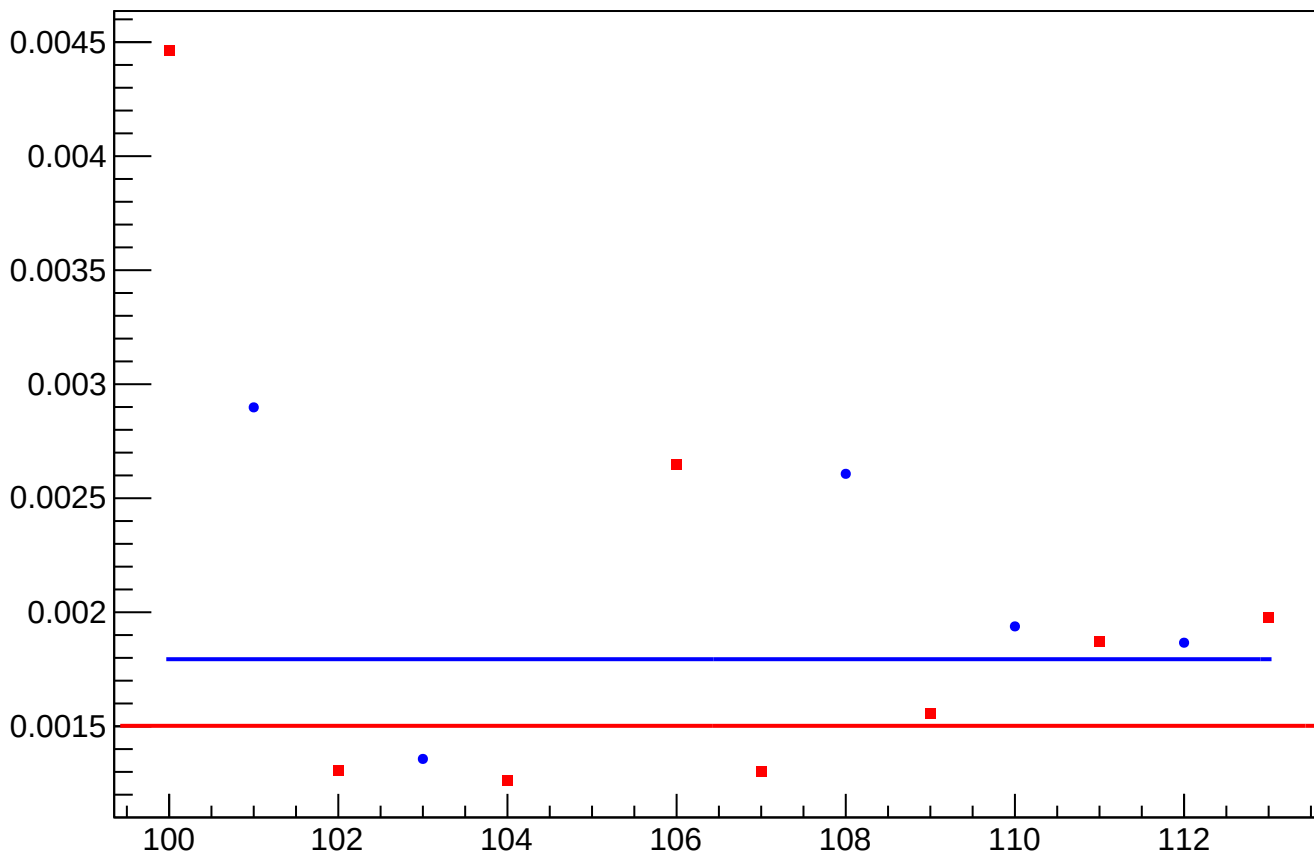
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 365861.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 353574.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

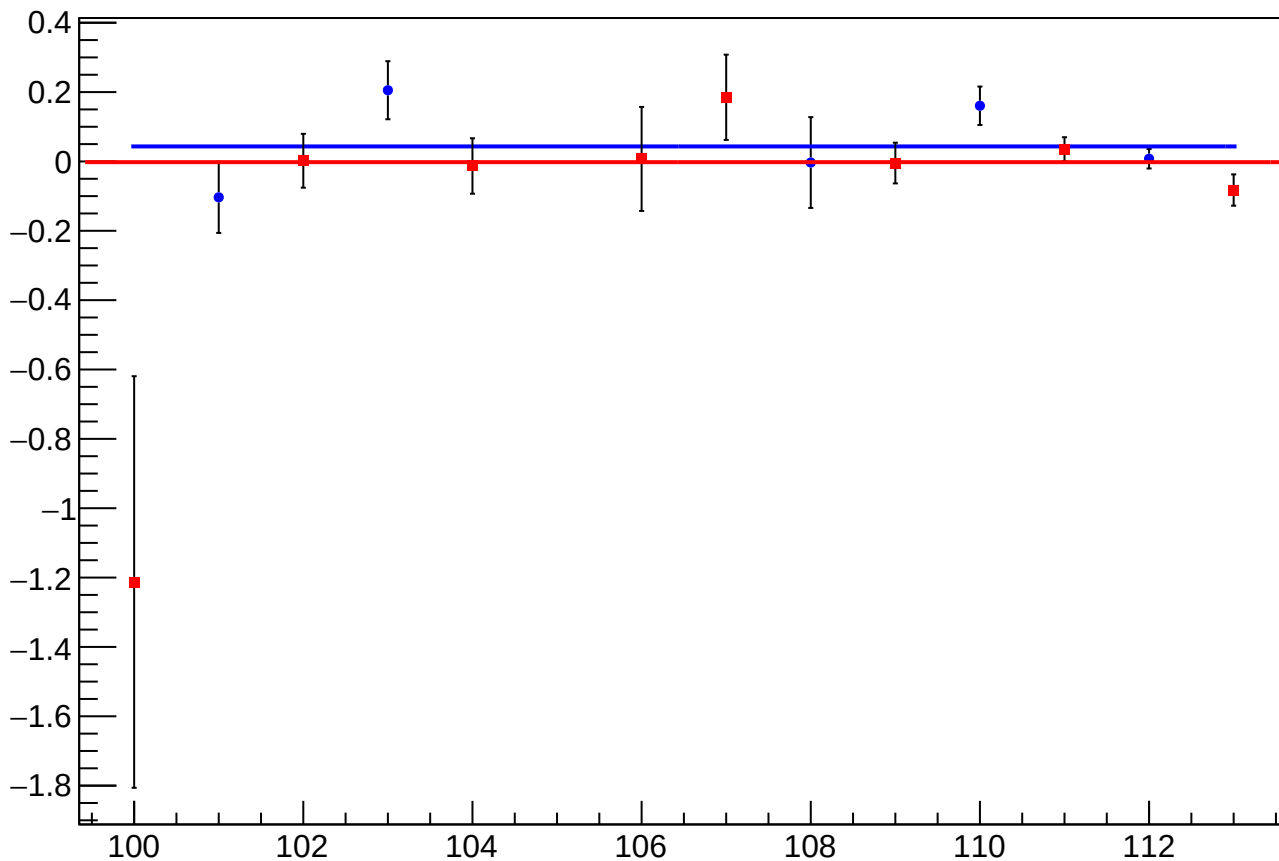
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 797804.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_48\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.043 $\pm$ 0.023  $\chi^2$ /NDF: 12.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.002 $\pm$ 0.022  $\chi^2$ /NDF: 10.9/7

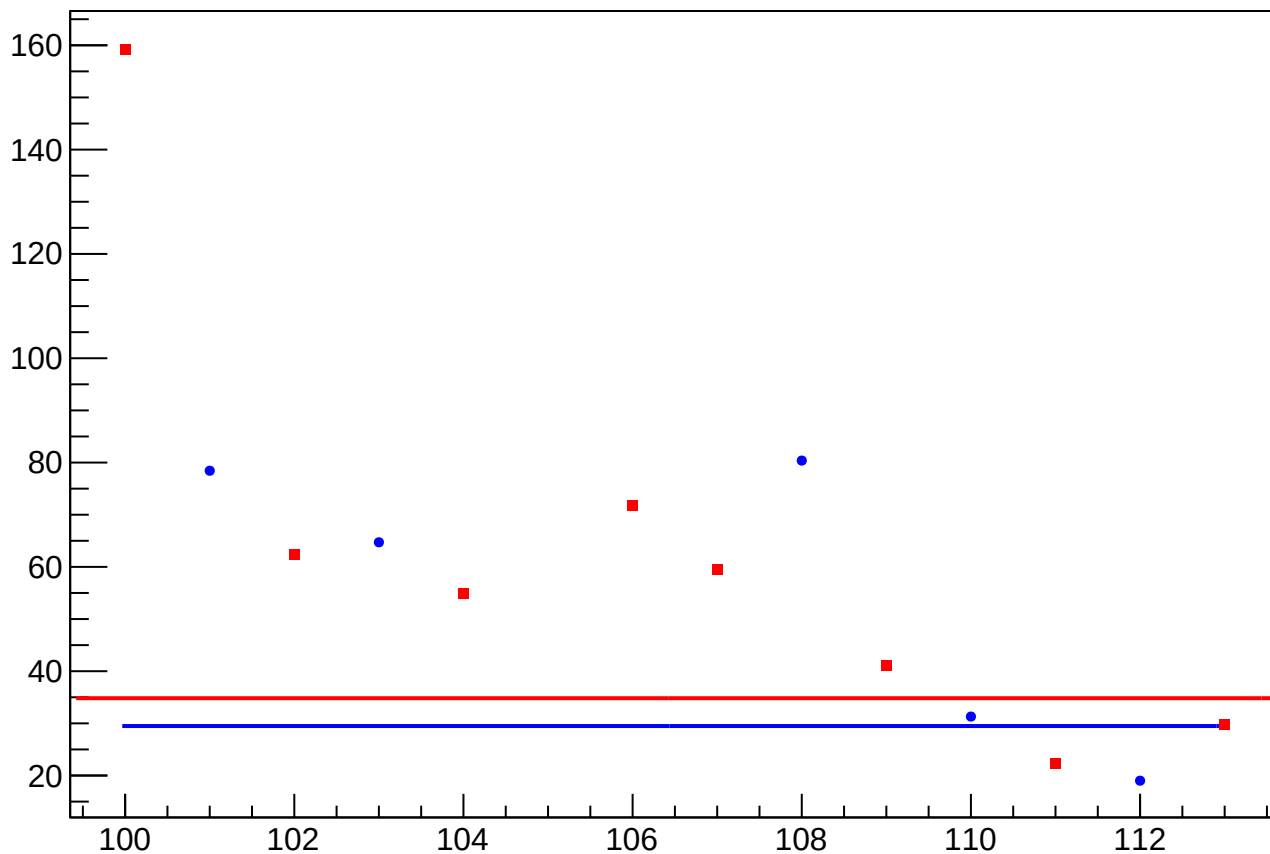
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.020 $\pm$ 0.016  $\chi^2$ /NDF: 24.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 29.488 $\pm$ 0.016  $\chi^2$ /NDF: 1389514.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 34.820 $\pm$ 0.016  $\chi^2$ /NDF: 983486.9/7

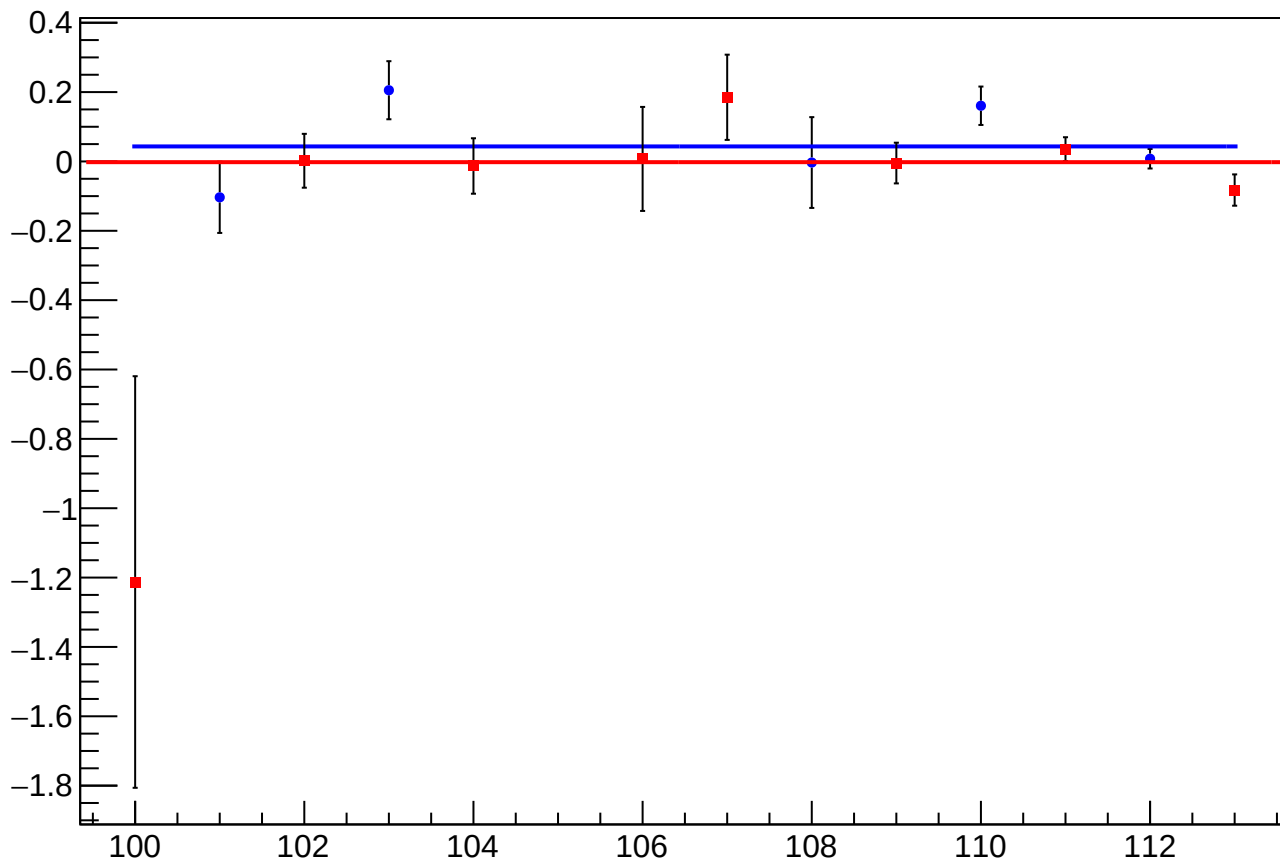
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 32.277 $\pm$ 0.011  $\chi^2$ /NDF: 2429046.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.043+/-0.023  $\chi^2/\text{NDF}$ : 12.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.002+/-0.022  $\chi^2/\text{NDF}$ : 10.9/7

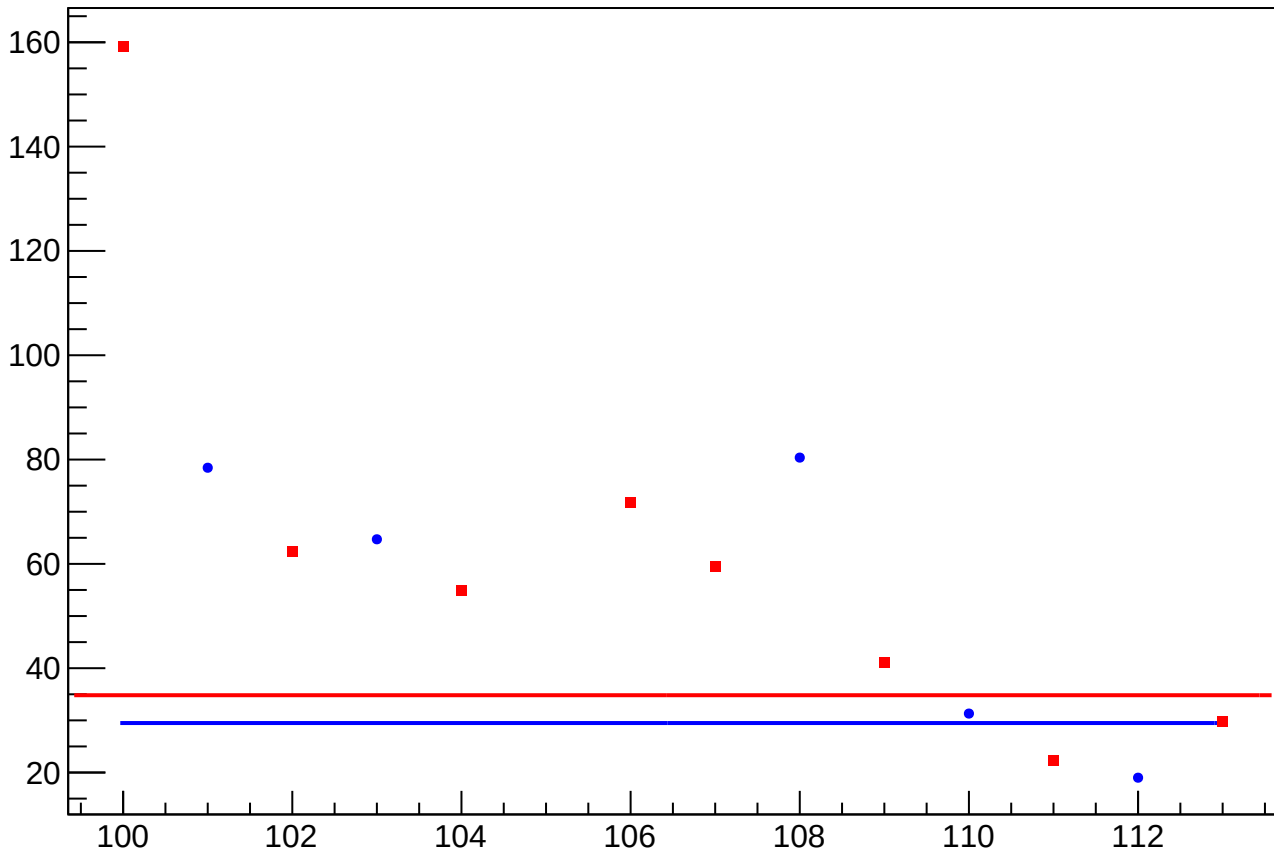
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.020+/-0.016  $\chi^2/\text{NDF}$ : 24.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 29.488+/-0.016  $\chi^2/\text{NDF}$ : 1389514.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 34.820+/-0.016  $\chi^2/\text{NDF}$ : 983486.9/7

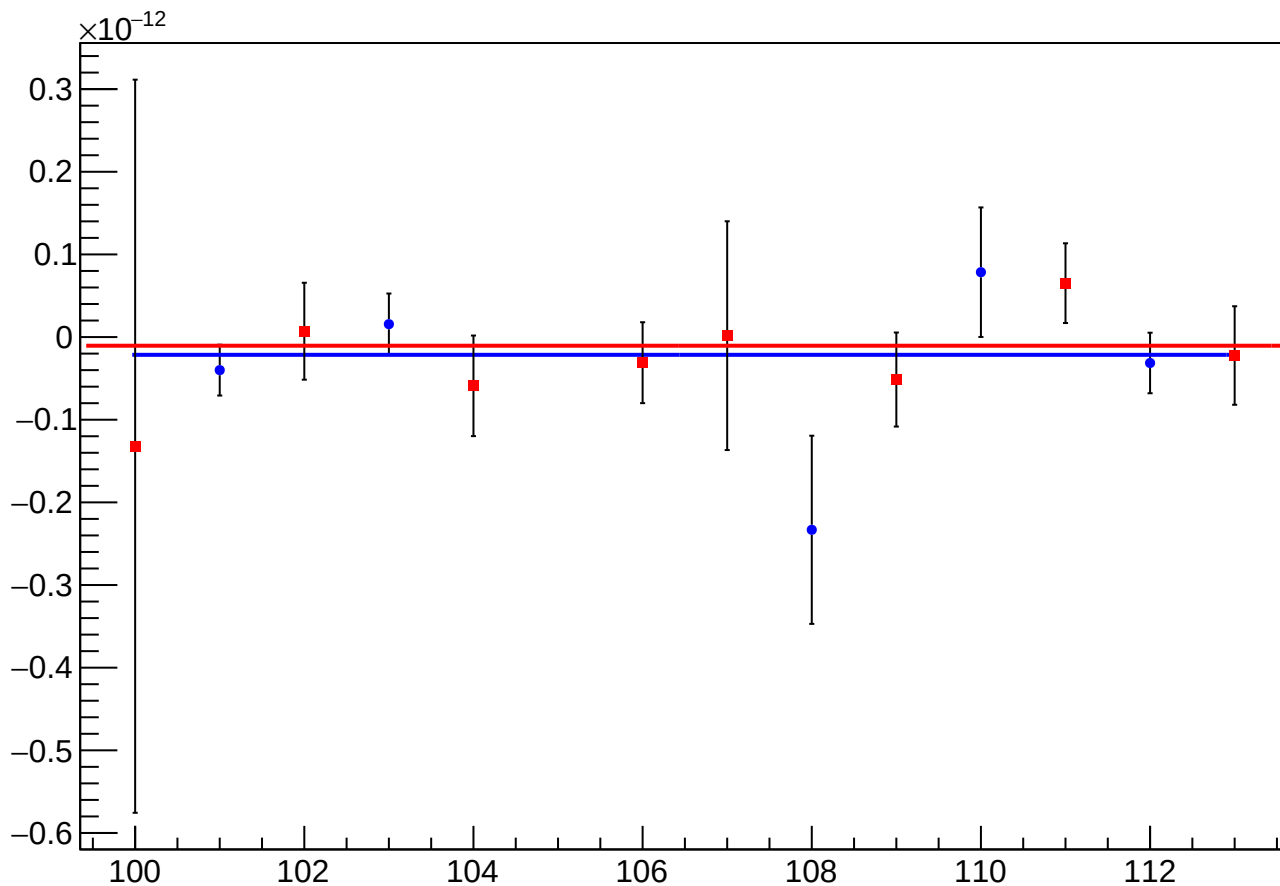
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.277+/-0.011  $\chi^2/\text{NDF}$ : 2429046.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.0/7

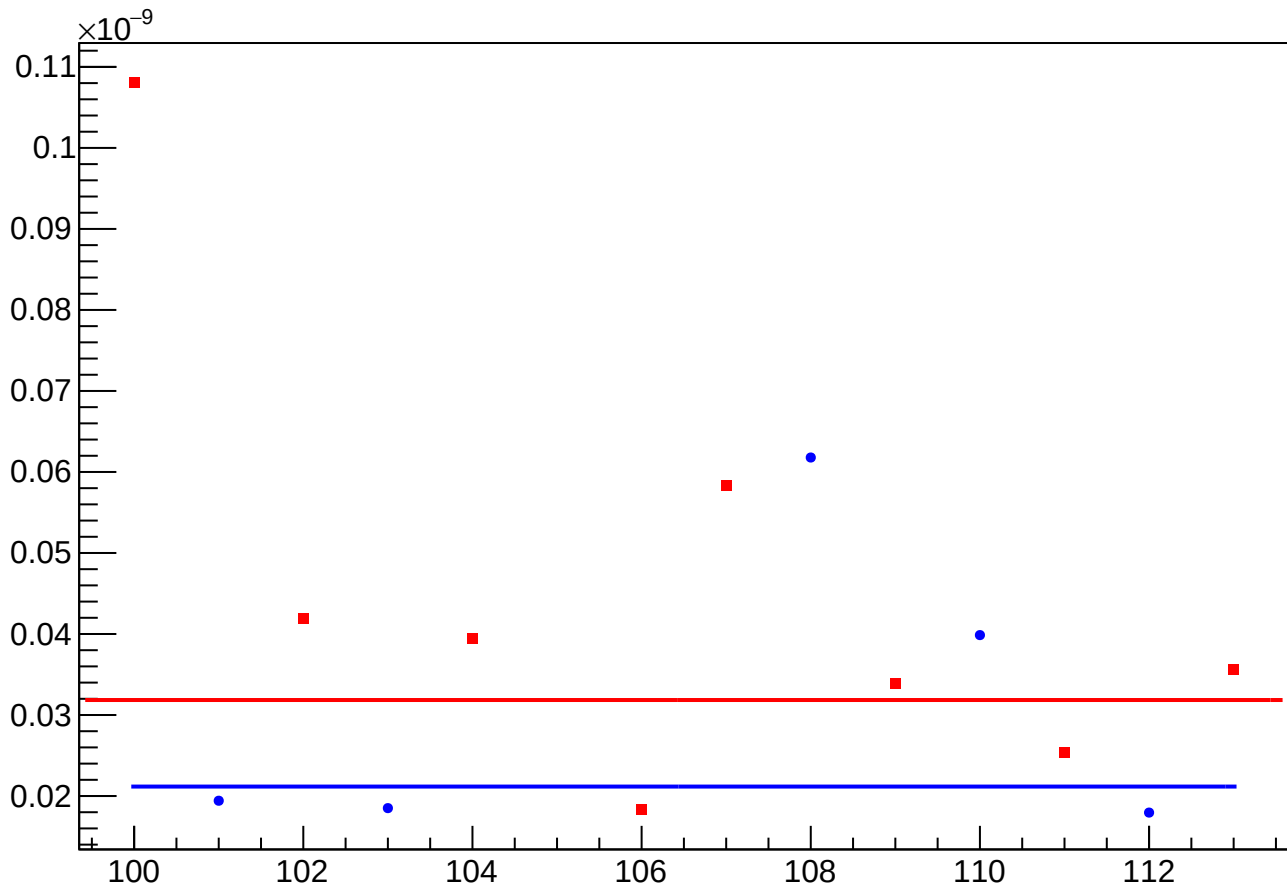
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 400655.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 421464.8/7

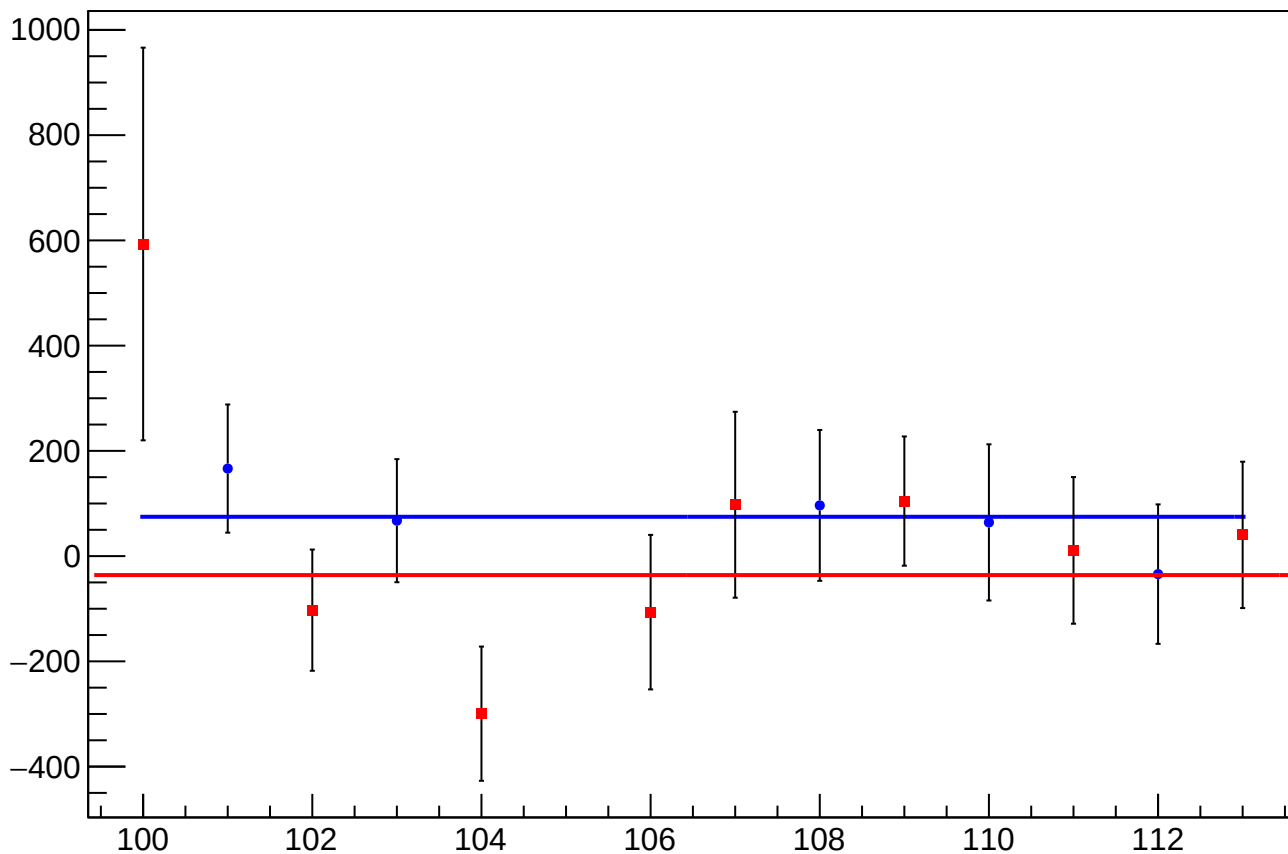
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1091509.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 74.742 $\pm$ 58.566  $\chi^2$ /NDF: 1.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -36.023 $\pm$ 50.509  $\chi^2$ /NDF: 10.0/7

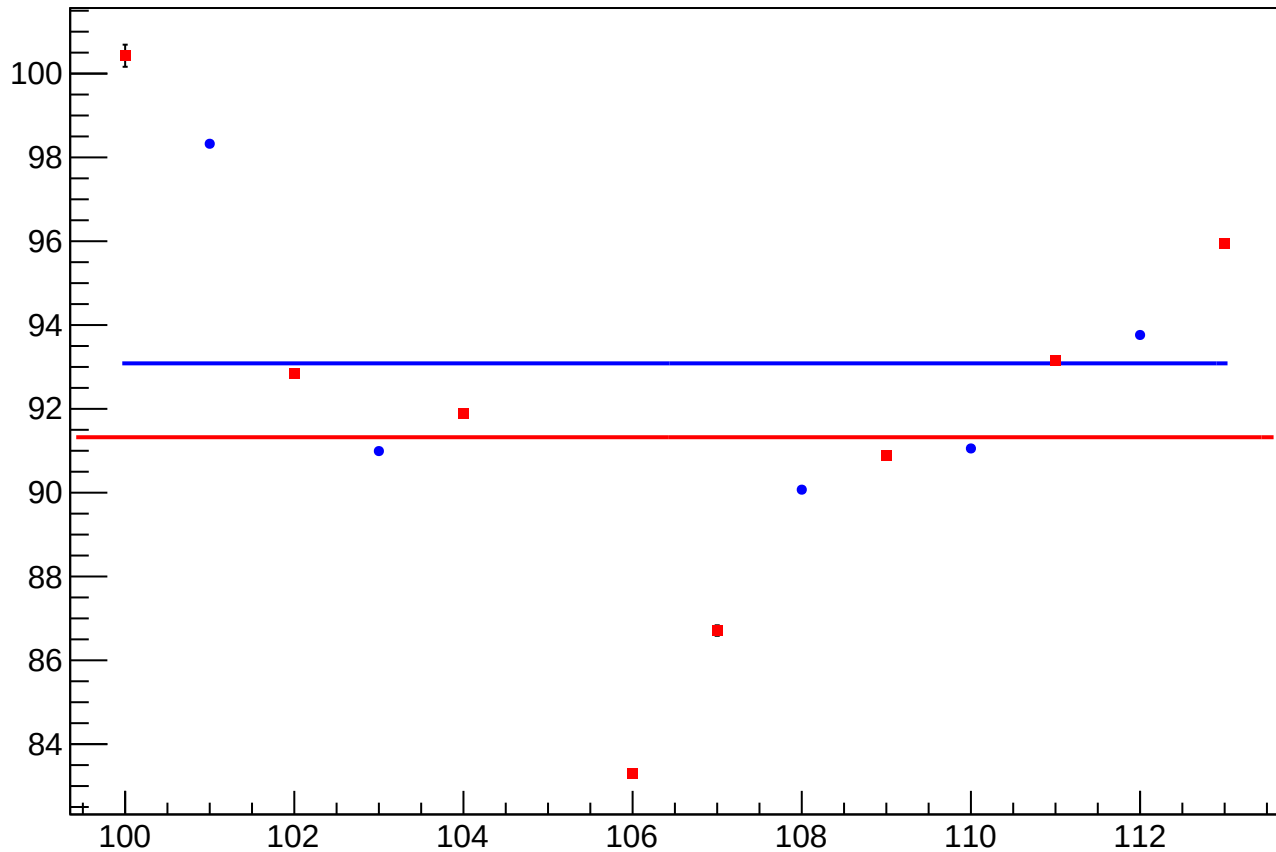
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.222 $\pm$ 38.249  $\chi^2$ /NDF: 13.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 93.086+/-0.041  $\chi^2/\text{NDF}$ : 5653.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 91.323+/-0.036  $\chi^2/\text{NDF}$ : 11505.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

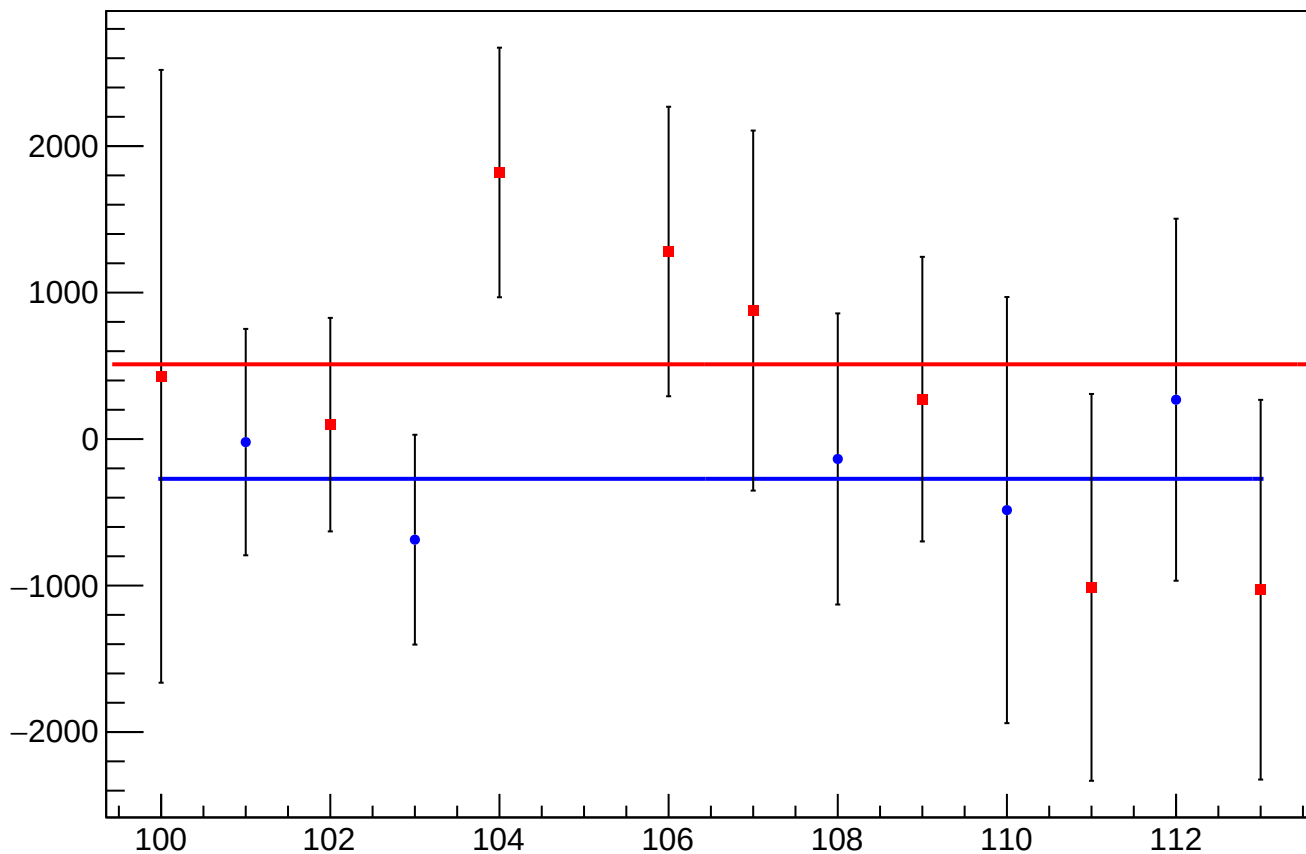
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 92.075+/-0.027  $\chi^2/\text{NDF}$ : 18197.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_15\_dd\_reg\_correction\_mean vs Slug



Right In: -271.312+/-416.498  $\chi^2/\text{NDF}$ : 0.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 510.450+/-367.506  $\chi^2/\text{NDF}$ : 6.2/7

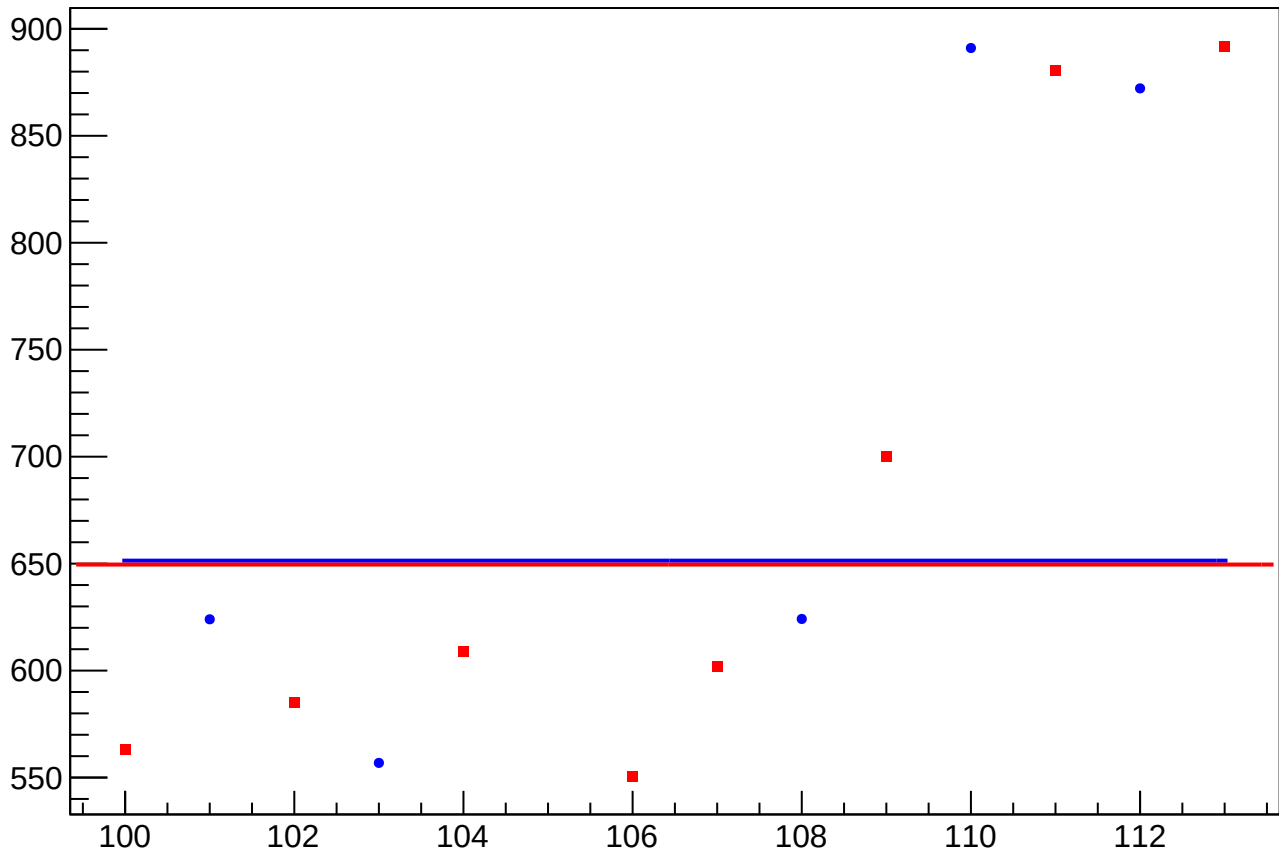
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 168.231+/-275.567  $\chi^2/\text{NDF}$ : 8.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_reg\_correction\_rms vs Slug



Right In: 651.404 $\pm$ 0.295  $\chi^2$ /NDF: 157000.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 649.574 $\pm$ 0.260  $\chi^2$ /NDF: 183164.6/7

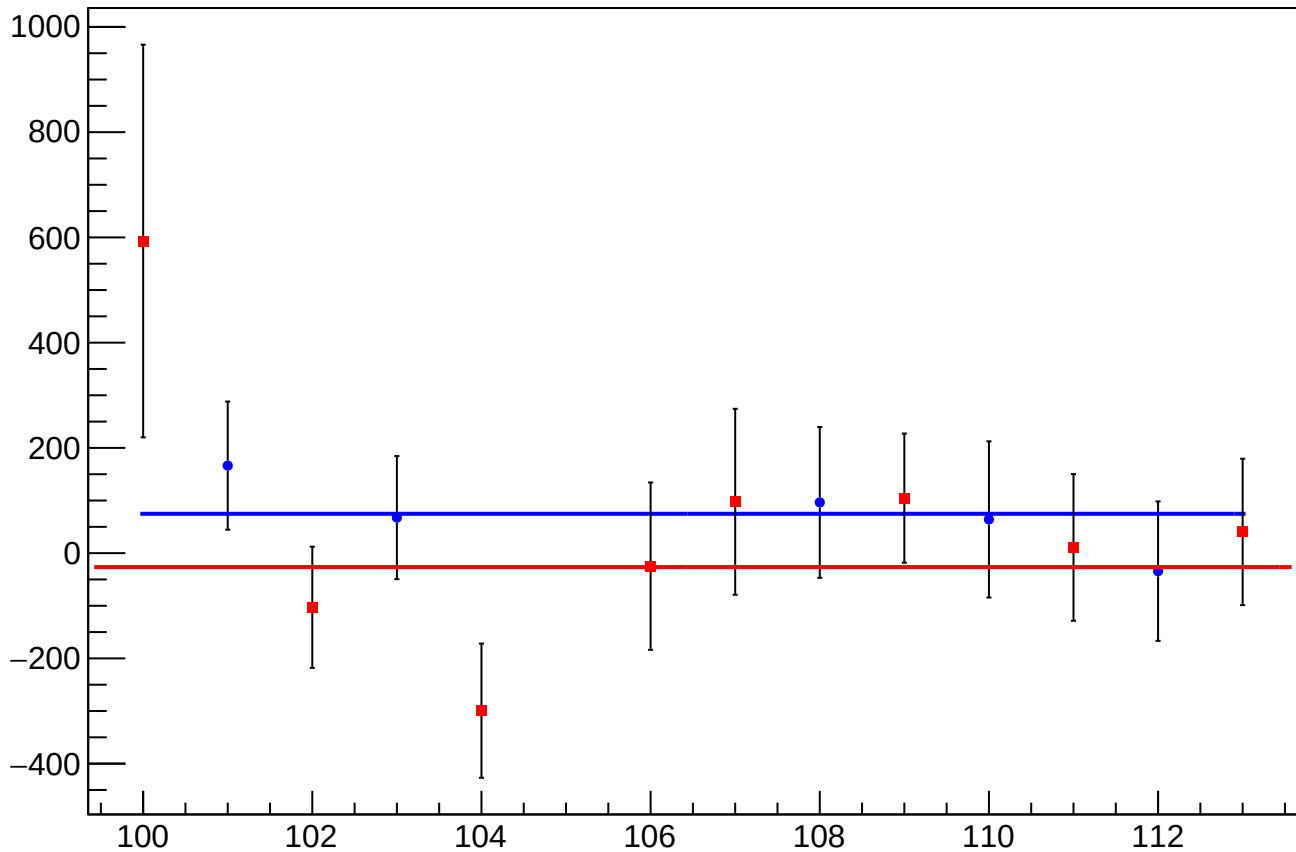
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 650.375 $\pm$ 0.195  $\chi^2$ /NDF: 340186.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 74.788+/-58.566  $\chi^2/\text{NDF}$ : 1.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -26.392+/-50.957  $\chi^2/\text{NDF}$ : 9.7/7

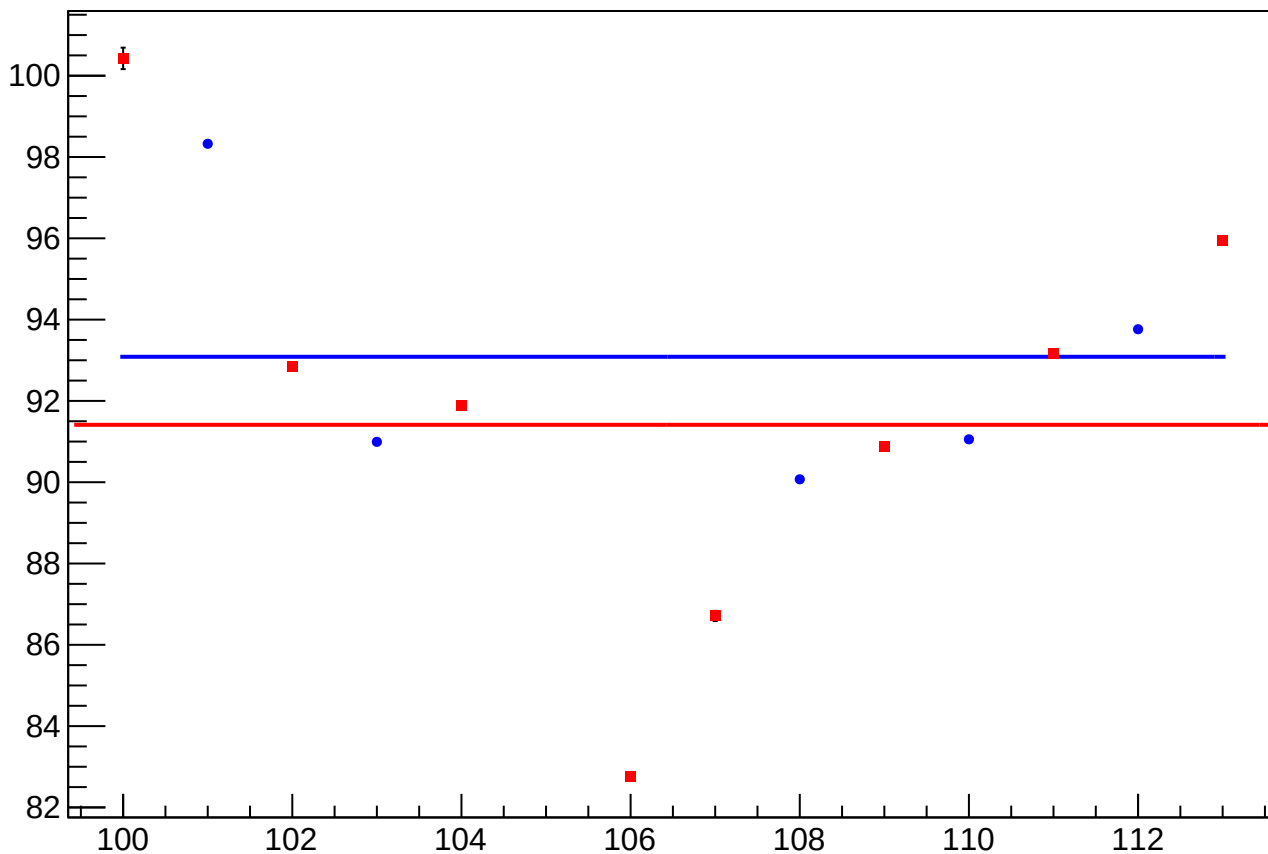
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.202+/-38.443  $\chi^2/\text{NDF}$ : 12.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 93.086 $\pm$ 0.041  $\chi^2$ /NDF: 5653.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 91.412 $\pm$ 0.036  $\chi^2$ /NDF: 11319.2/7

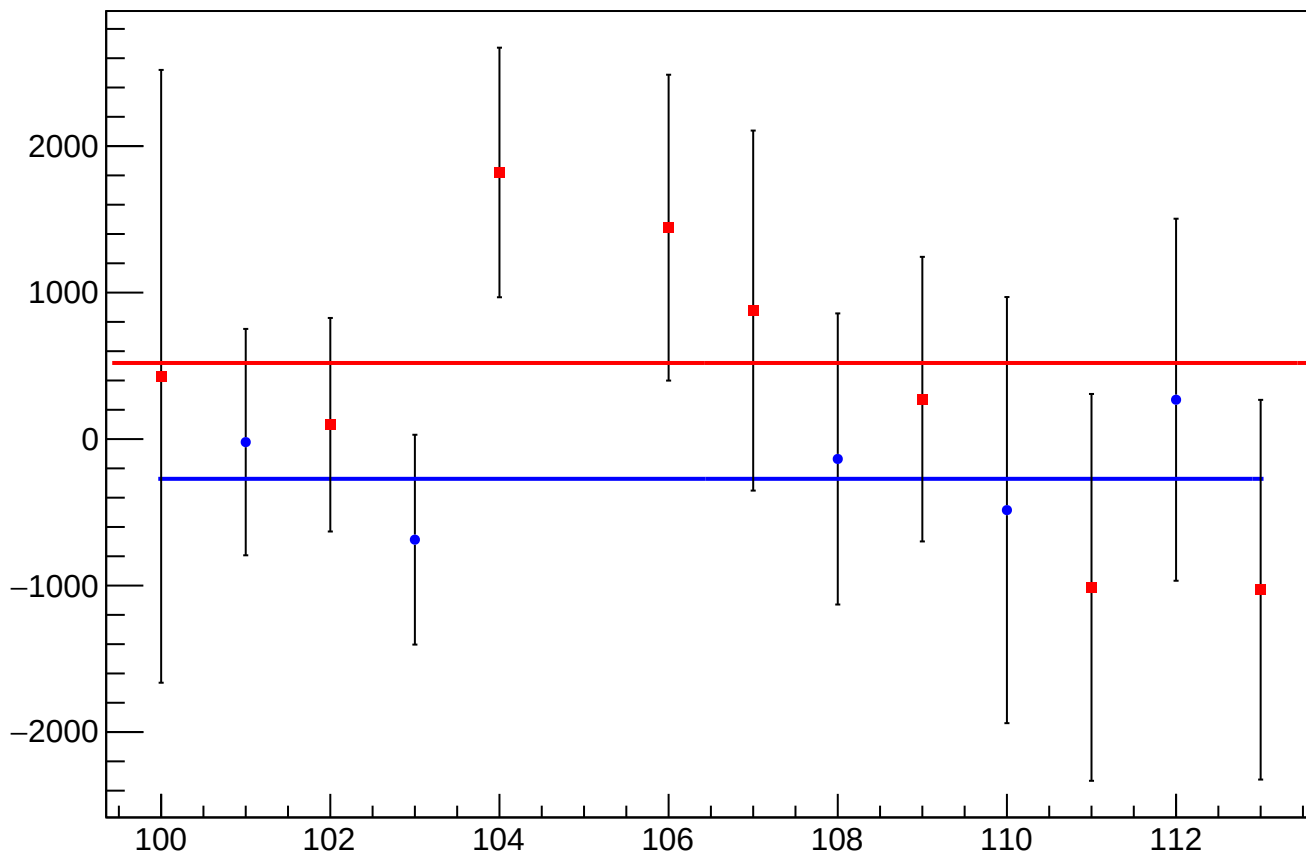
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 92.133 $\pm$ 0.027  $\chi^2$ /NDF: 17902.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_dd\_cor\_correction\_mean vs Slug



Right In: -271.297+/-416.497  $\chi^2/\text{NDF}$ : 0.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 519.557+/-370.186  $\chi^2/\text{NDF}$ : 6.4/7

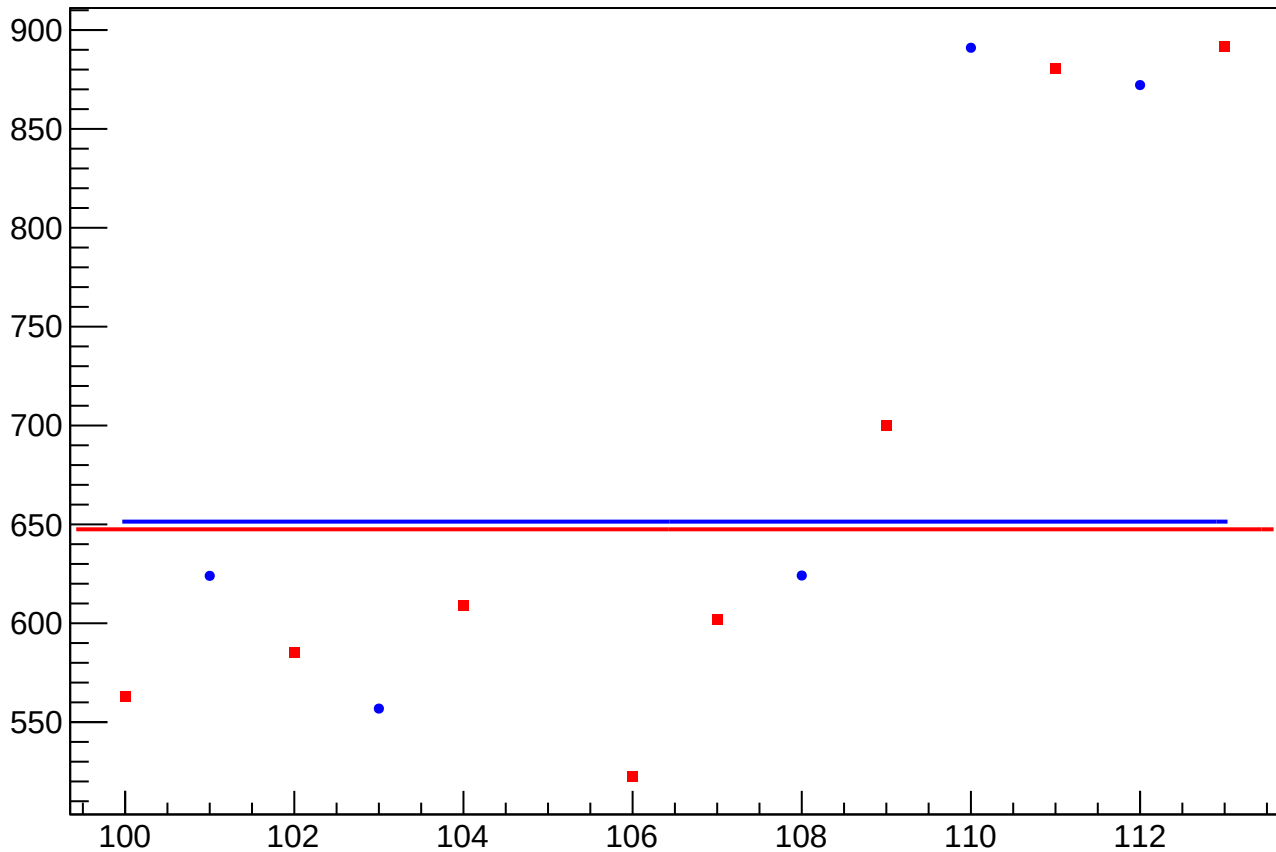
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 170.525+/-276.692  $\chi^2/\text{NDF}$ : 9.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_cor\_correction\_rms vs Slug



Right In: 651.402 $\pm$ 0.295  $\chi^2$ /NDF: 157003.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 647.515 $\pm$ 0.262  $\chi^2$ /NDF: 192595.0/7

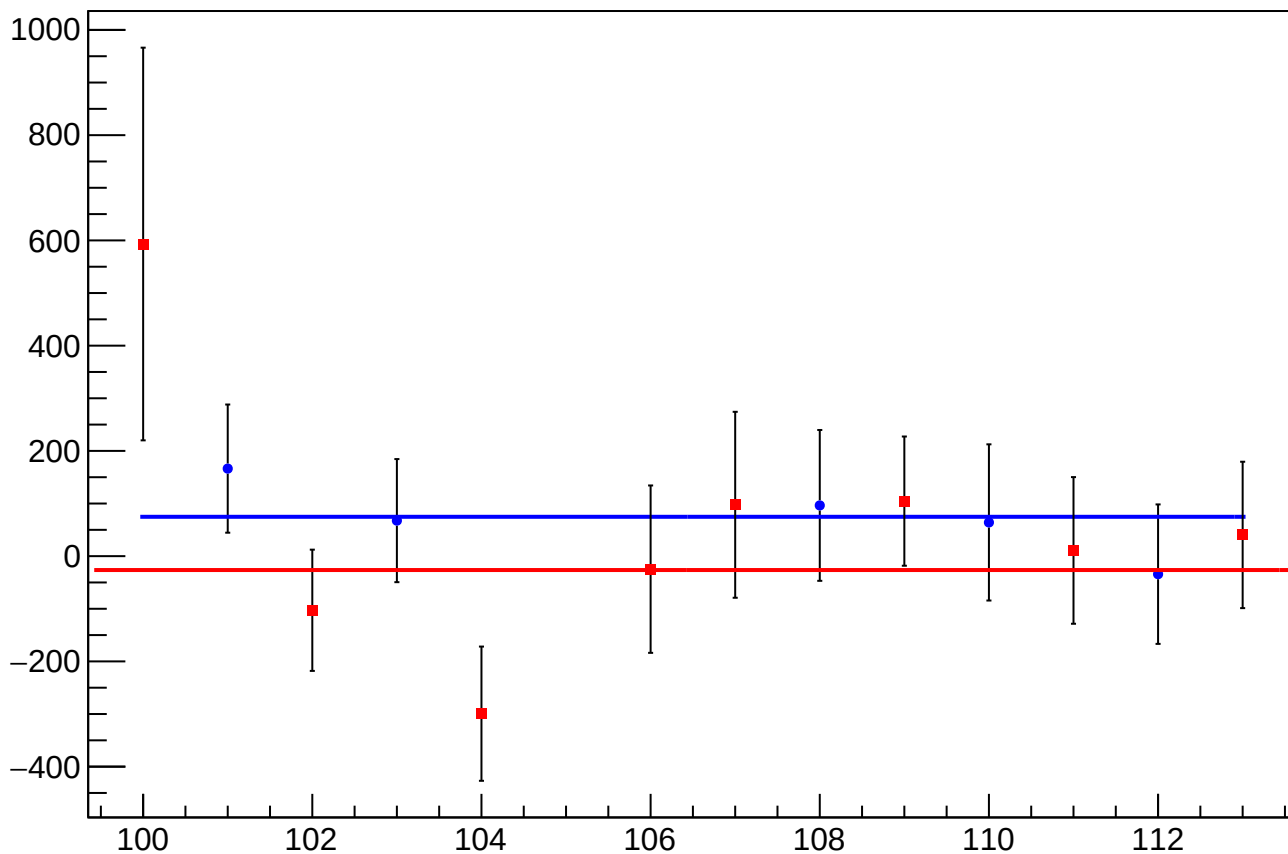
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 649.231 $\pm$ 0.196  $\chi^2$ /NDF: 349695.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 74.788+/-58.566  $\chi^2/\text{NDF}$ : 1.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -26.392+/-50.957  $\chi^2/\text{NDF}$ : 9.7/7

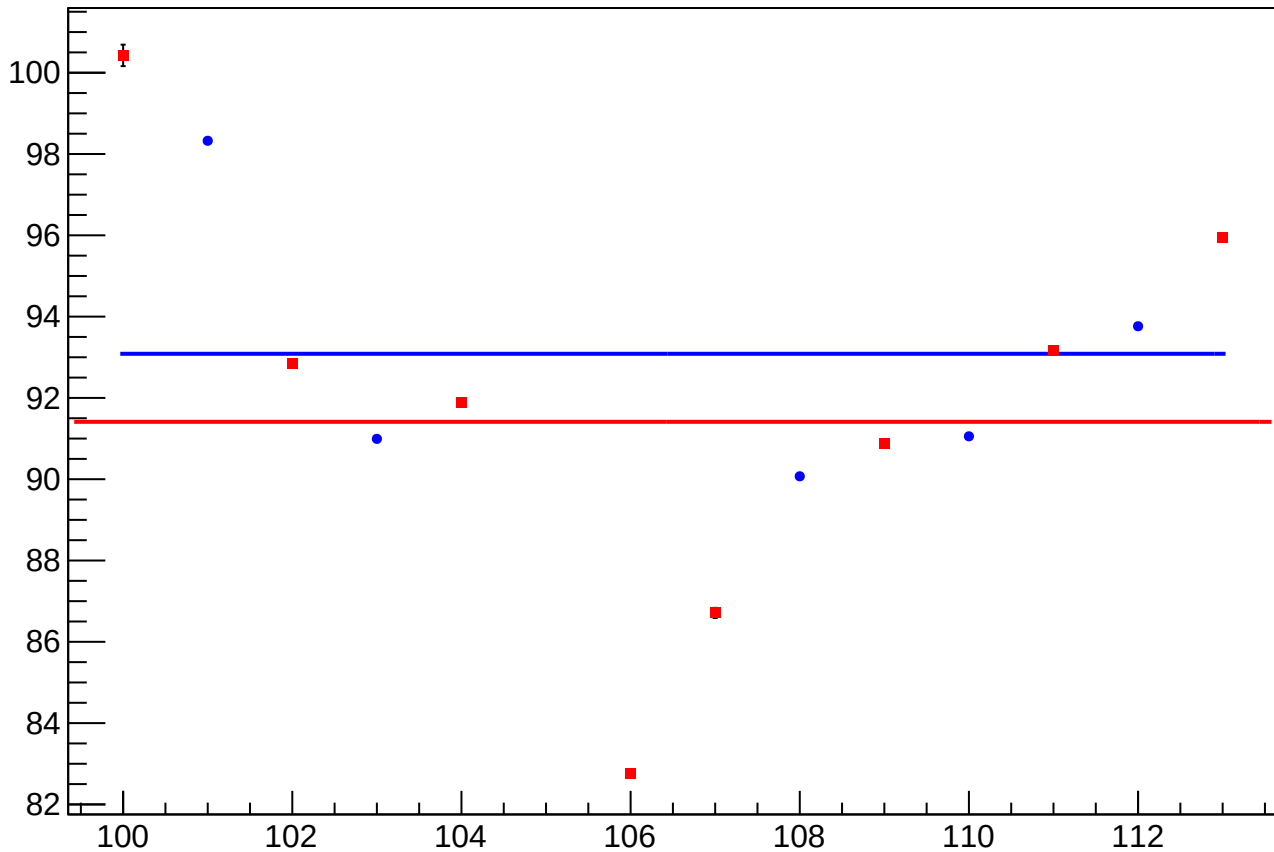
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.202+/-38.443  $\chi^2/\text{NDF}$ : 12.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 93.086 $\pm$ 0.041  $\chi^2$ /NDF: 5653.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 91.412 $\pm$ 0.036  $\chi^2$ /NDF: 11319.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

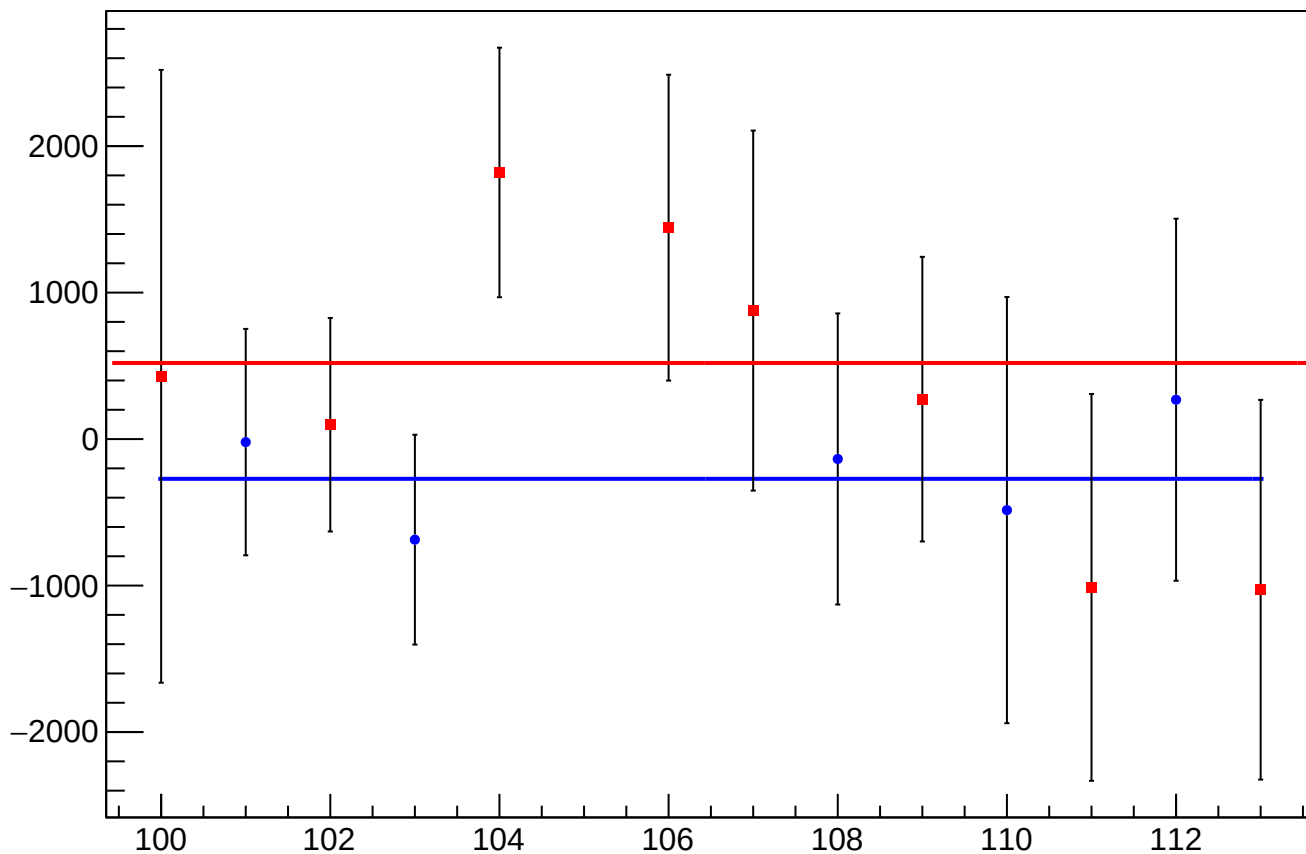
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 92.133 $\pm$ 0.027  $\chi^2$ /NDF: 17902.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -271.297+/-416.497  $\chi^2/\text{NDF}$ : 0.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 519.557+/-370.186  $\chi^2/\text{NDF}$ : 6.4/7

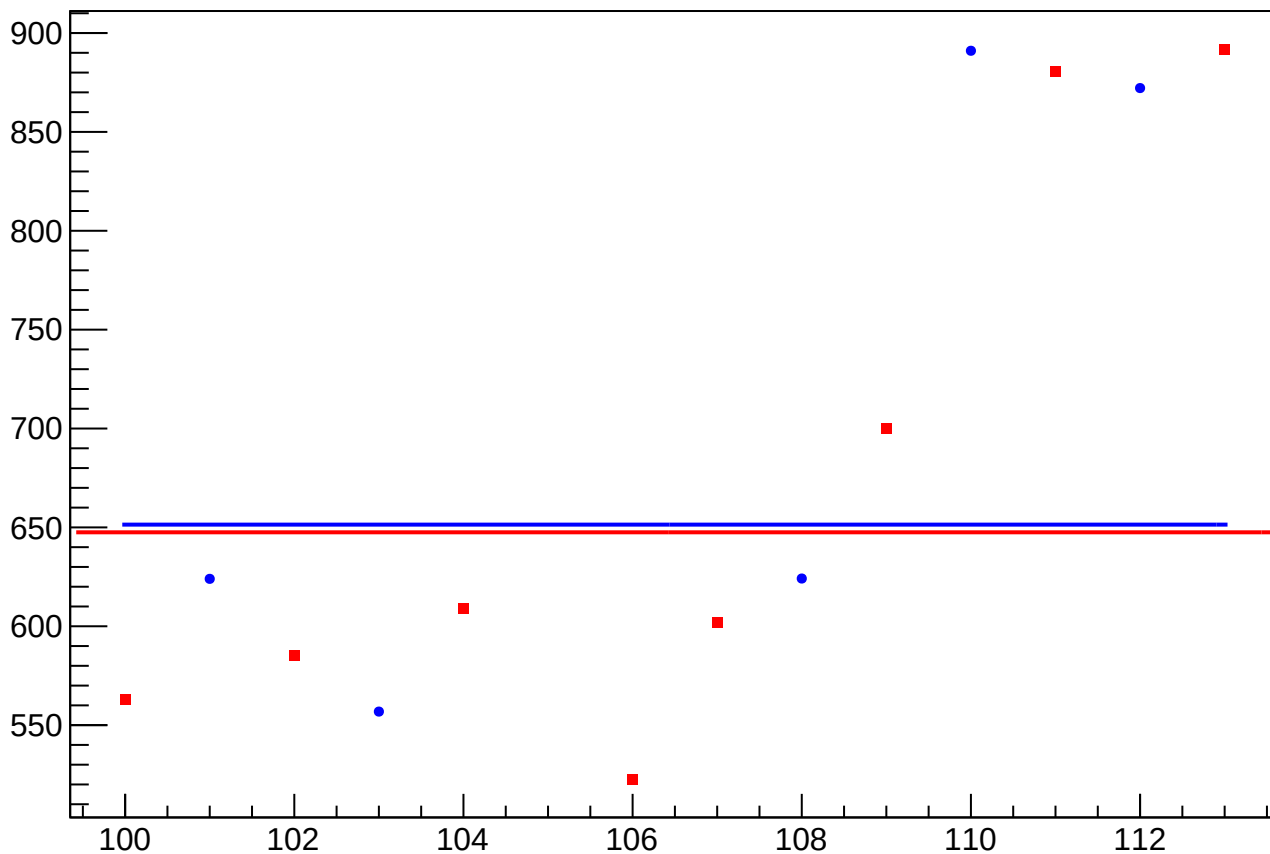
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 170.525+/-276.692  $\chi^2/\text{NDF}$ : 9.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 651.402 $\pm$ 0.295  $\chi^2$ /NDF: 157003.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 647.515 $\pm$ 0.262  $\chi^2$ /NDF: 192595.0/7

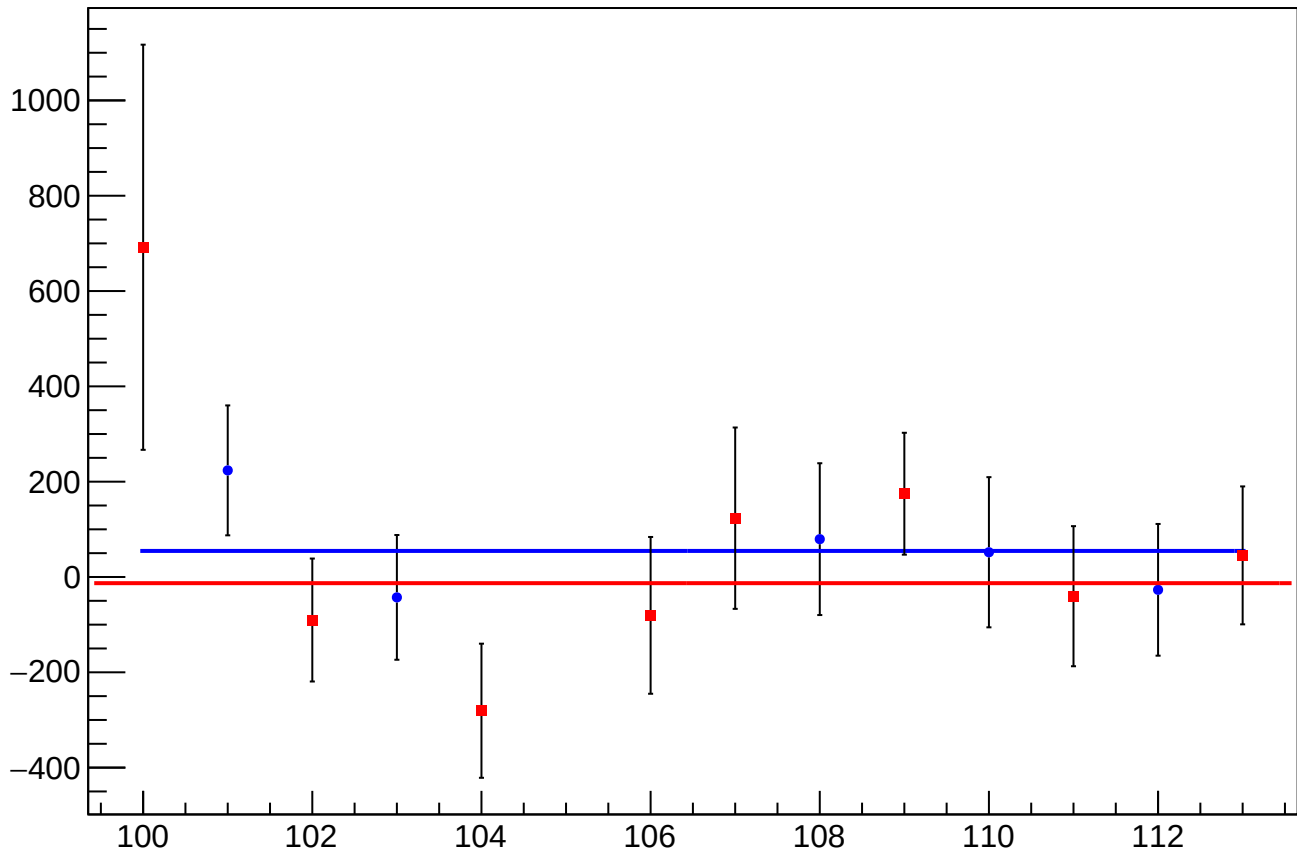
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 649.231 $\pm$ 0.196  $\chi^2$ /NDF: 349695.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 54.688 $\pm$ 63.983  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -12.952 $\pm$ 54.561  $\chi^2$ /NDF: 9.8/7

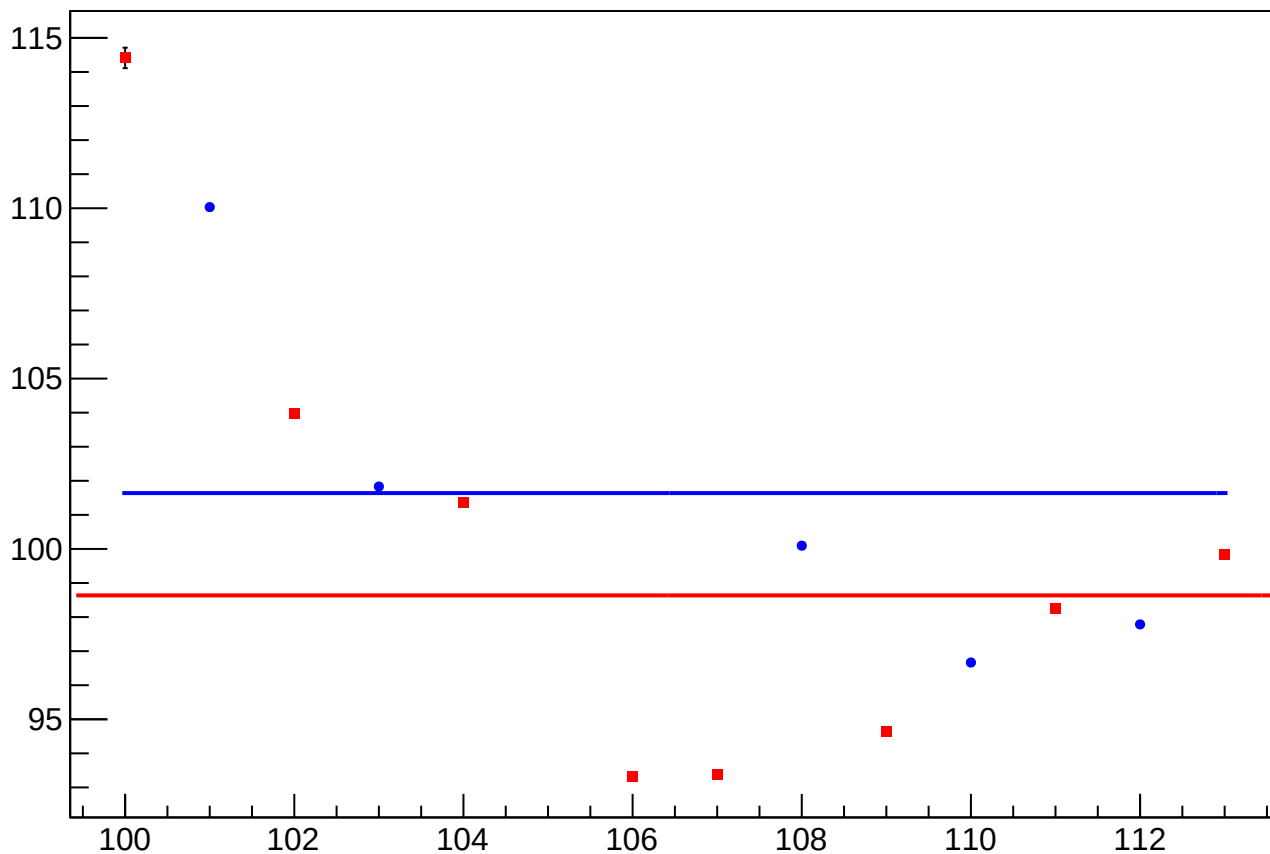
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 15.525 $\pm$ 41.516  $\chi^2$ /NDF: 12.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 101.640 $\pm$ 0.045  $\chi^2$ /NDF: 11323.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 98.637 $\pm$ 0.039  $\chi^2$ /NDF: 12661.1/7

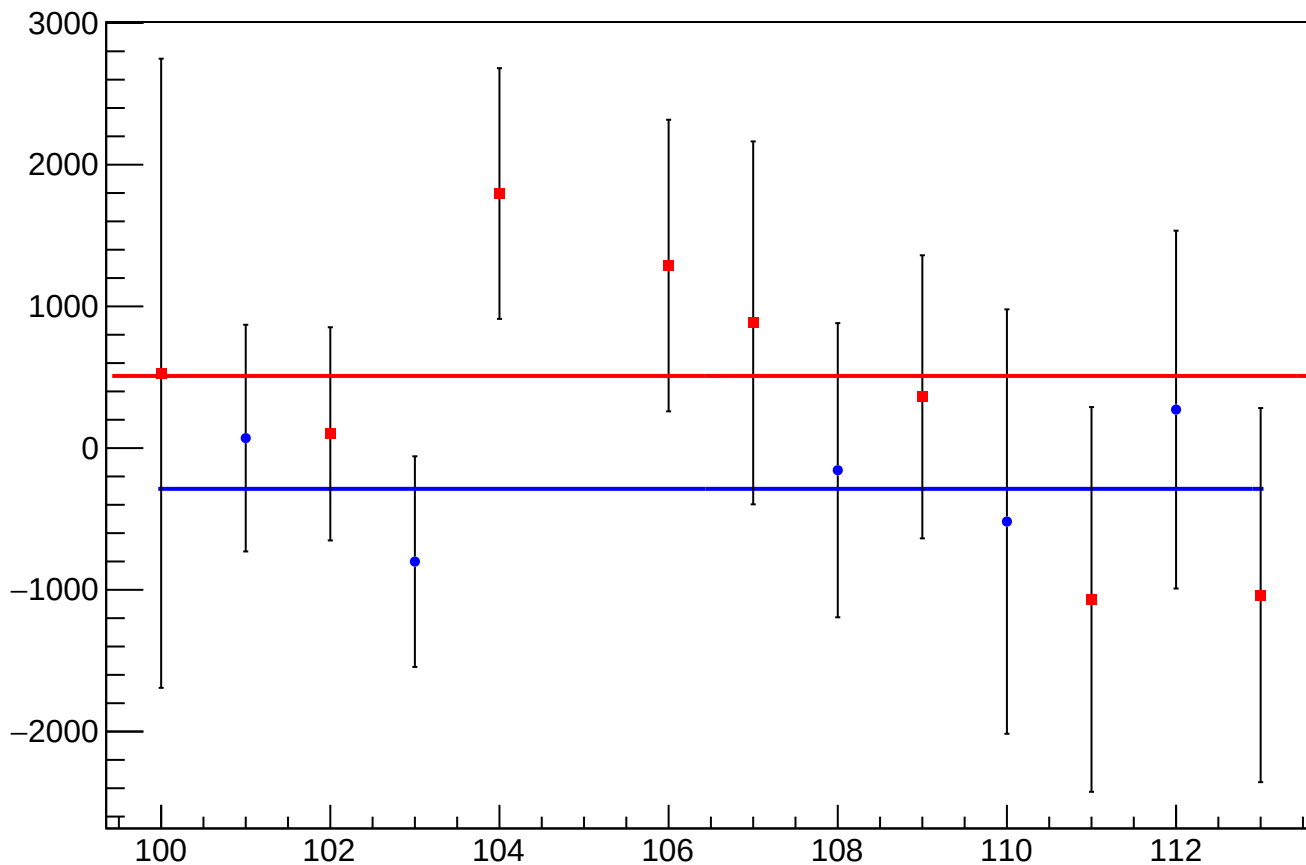
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 99.901 $\pm$ 0.029  $\chi^2$ /NDF: 26535.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_dd\_dit\_correction\_mean vs Slug



Right In: -287.419+/-431.317  $\chi^2/\text{NDF}$ : 0.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 509.233+/-380.077  $\chi^2/\text{NDF}$ : 5.8/7

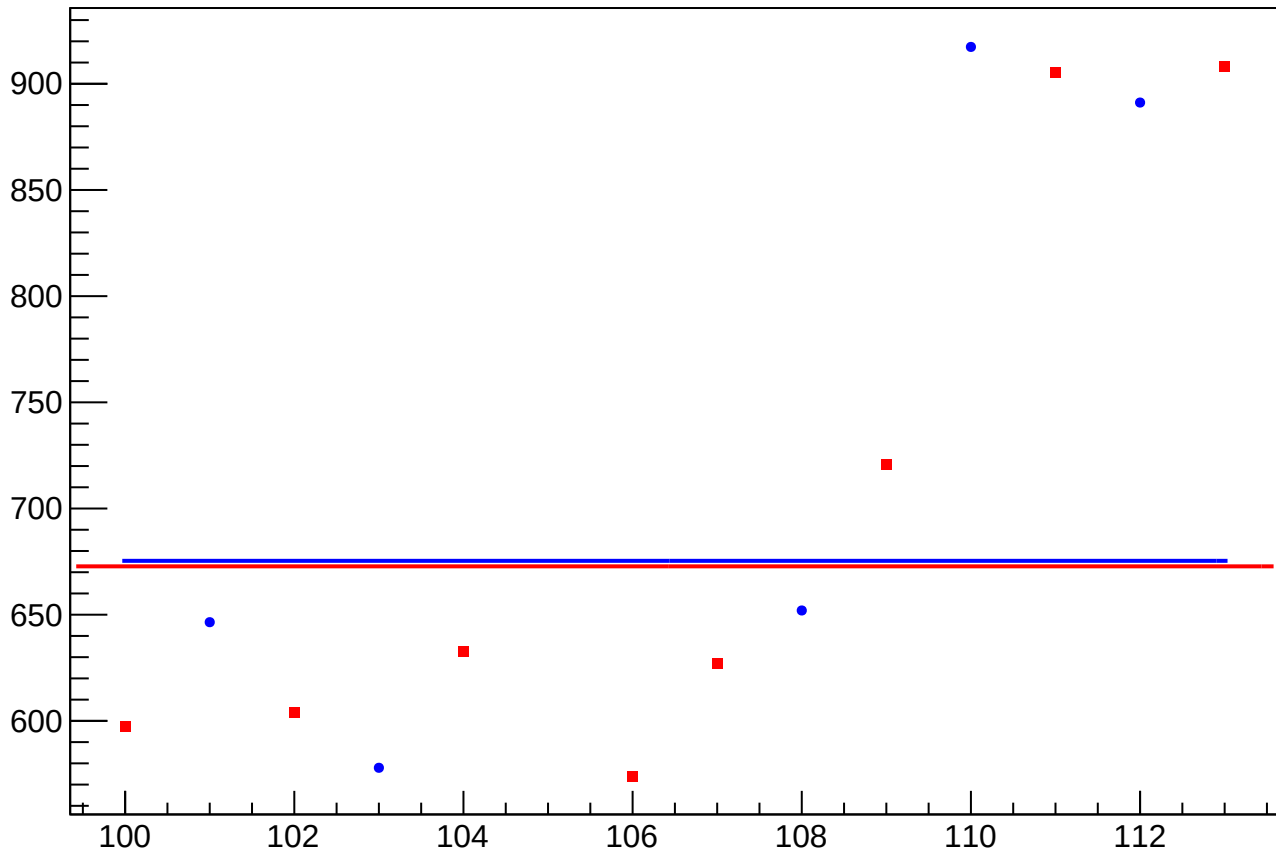
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 161.016+/-285.159  $\chi^2/\text{NDF}$ : 8.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_dit\_correction\_rms vs Slug



Right In: 675.365+/-0.305  $\chi^2/\text{NDF}$ : 148681.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 672.767+/-0.269  $\chi^2/\text{NDF}$ : 171092.2/7

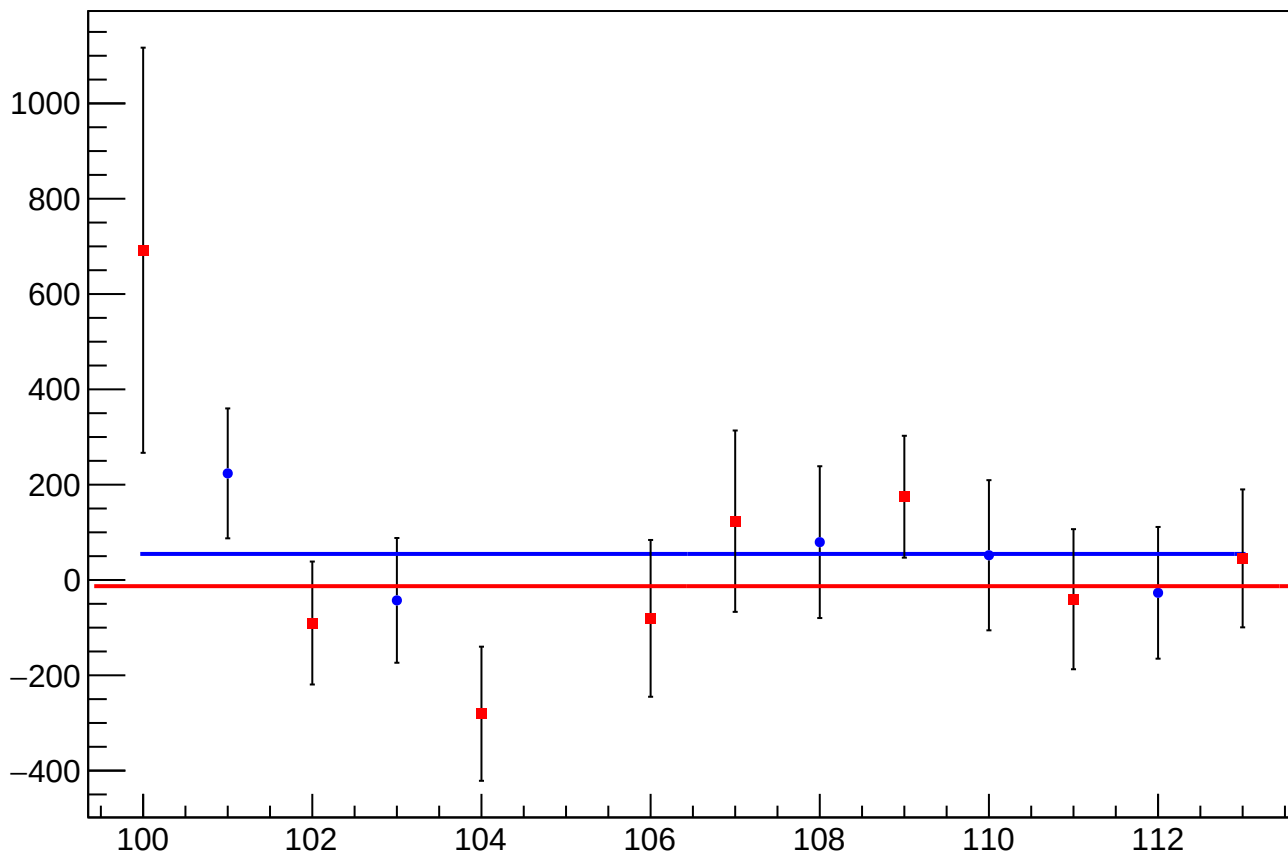
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 673.903+/-0.202  $\chi^2/\text{NDF}$ : 319814.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 54.688 $\pm$ 63.983  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -12.951 $\pm$ -54.561  $\chi^2$ /NDF: 9.8/7

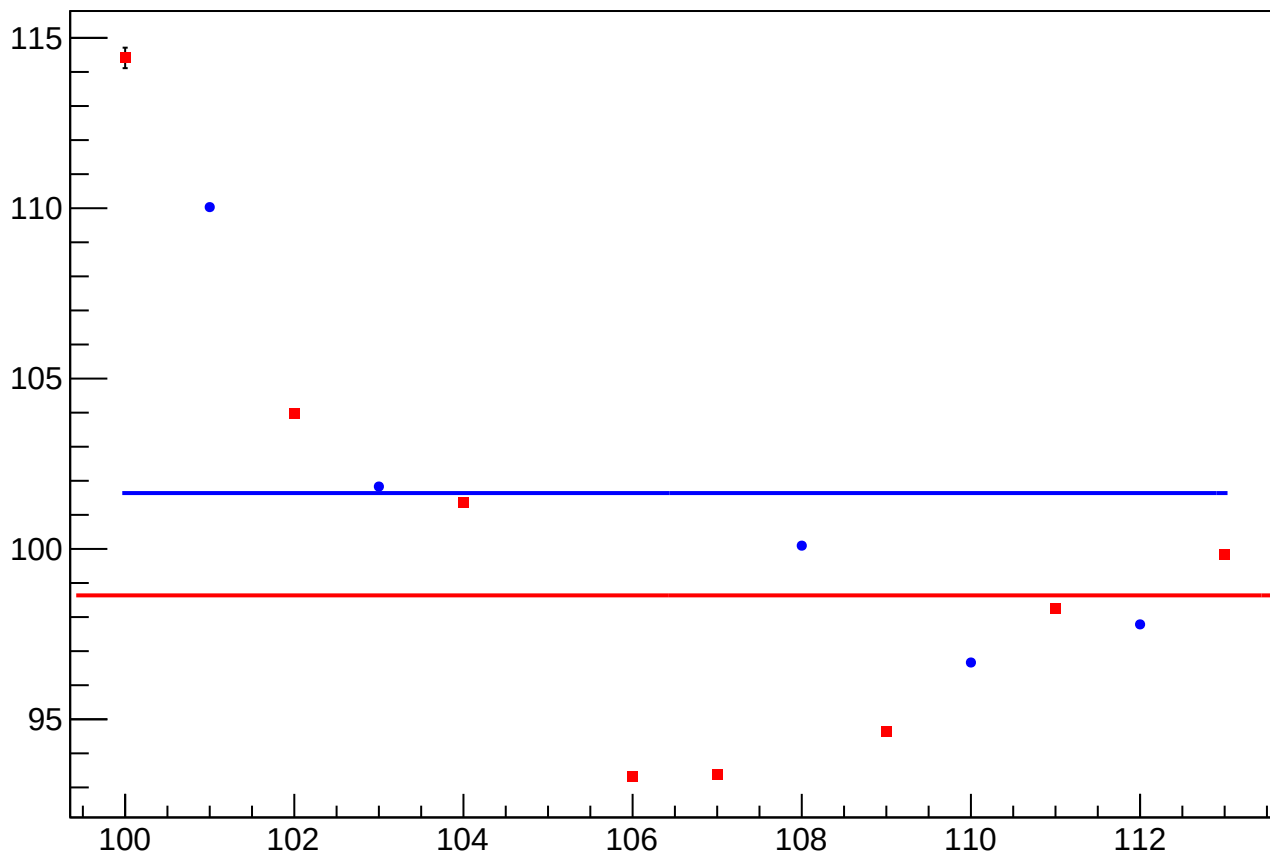
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 15.526 $\pm$ -41.516  $\chi^2$ /NDF: 12.9/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 101.640 $\pm$ 0.045  $\chi^2$ /NDF: 11323.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 98.637 $\pm$ 0.039  $\chi^2$ /NDF: 12660.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

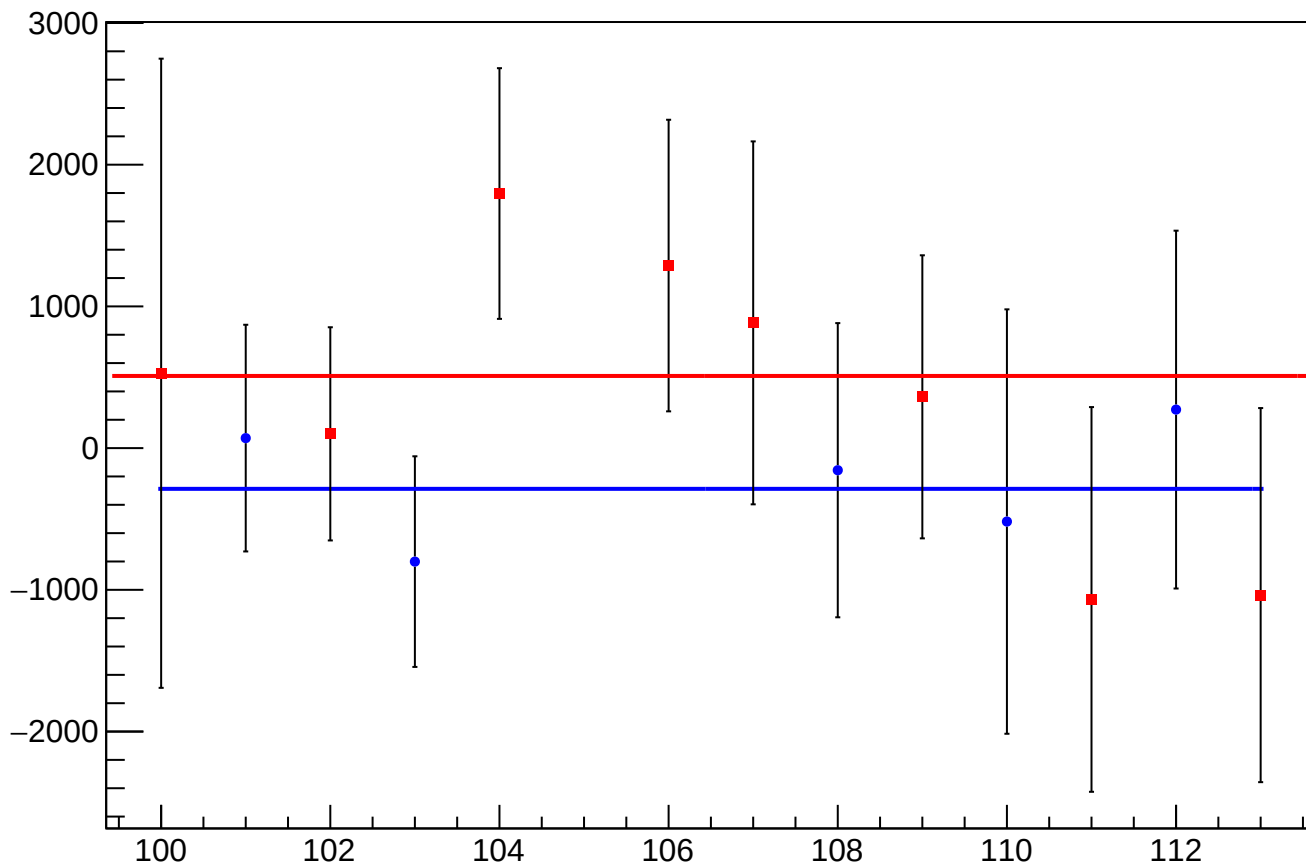
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 99.901 $\pm$ 0.029  $\chi^2$ /NDF: 26535.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -287.418+/-431.317  $\chi^2/\text{NDF}$ : 0.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 509.233+/-380.077  $\chi^2/\text{NDF}$ : 5.8/7

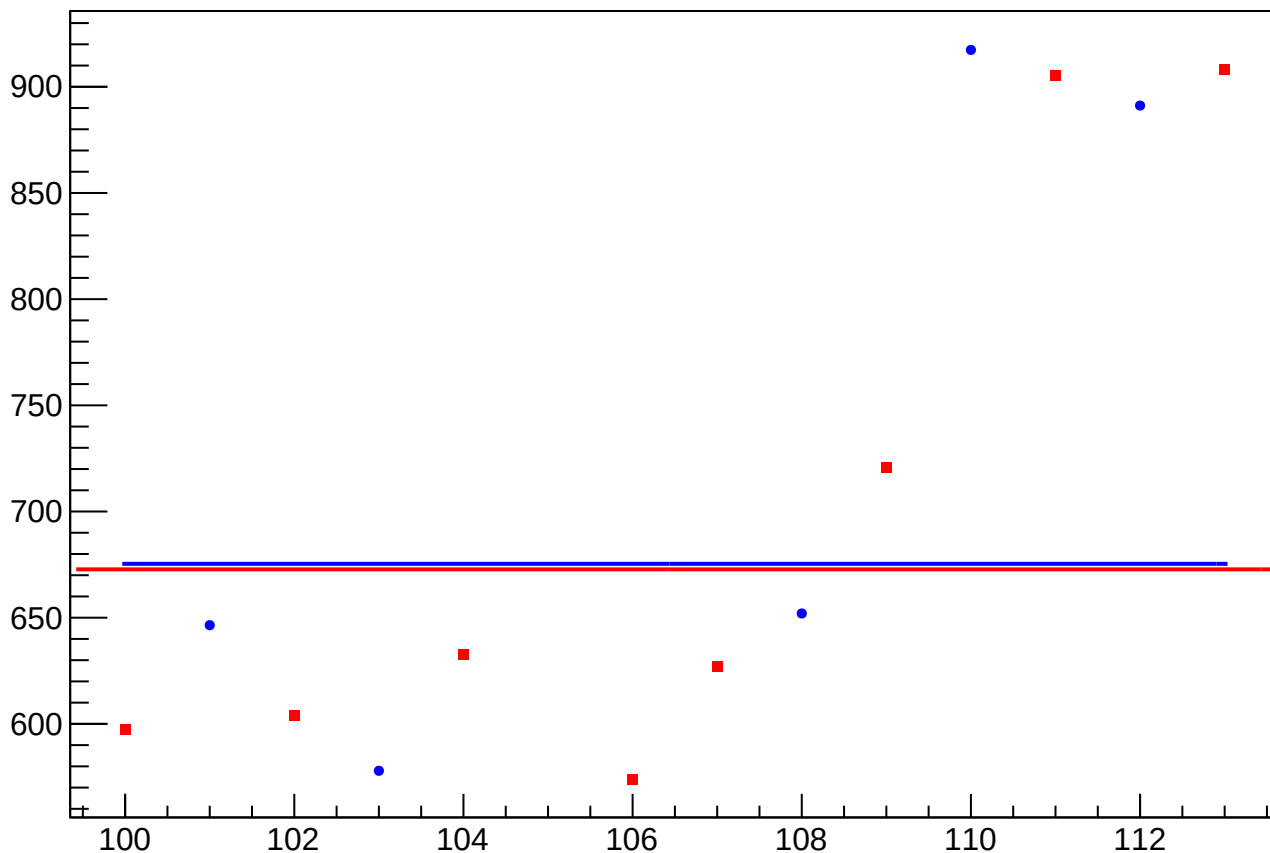
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 161.017+/-285.159  $\chi^2/\text{NDF}$ : 8.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 675.364 $\pm$ 0.305  $\chi^2$ /NDF: 148681.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 672.766 $\pm$ 0.269  $\chi^2$ /NDF: 171091.7/7

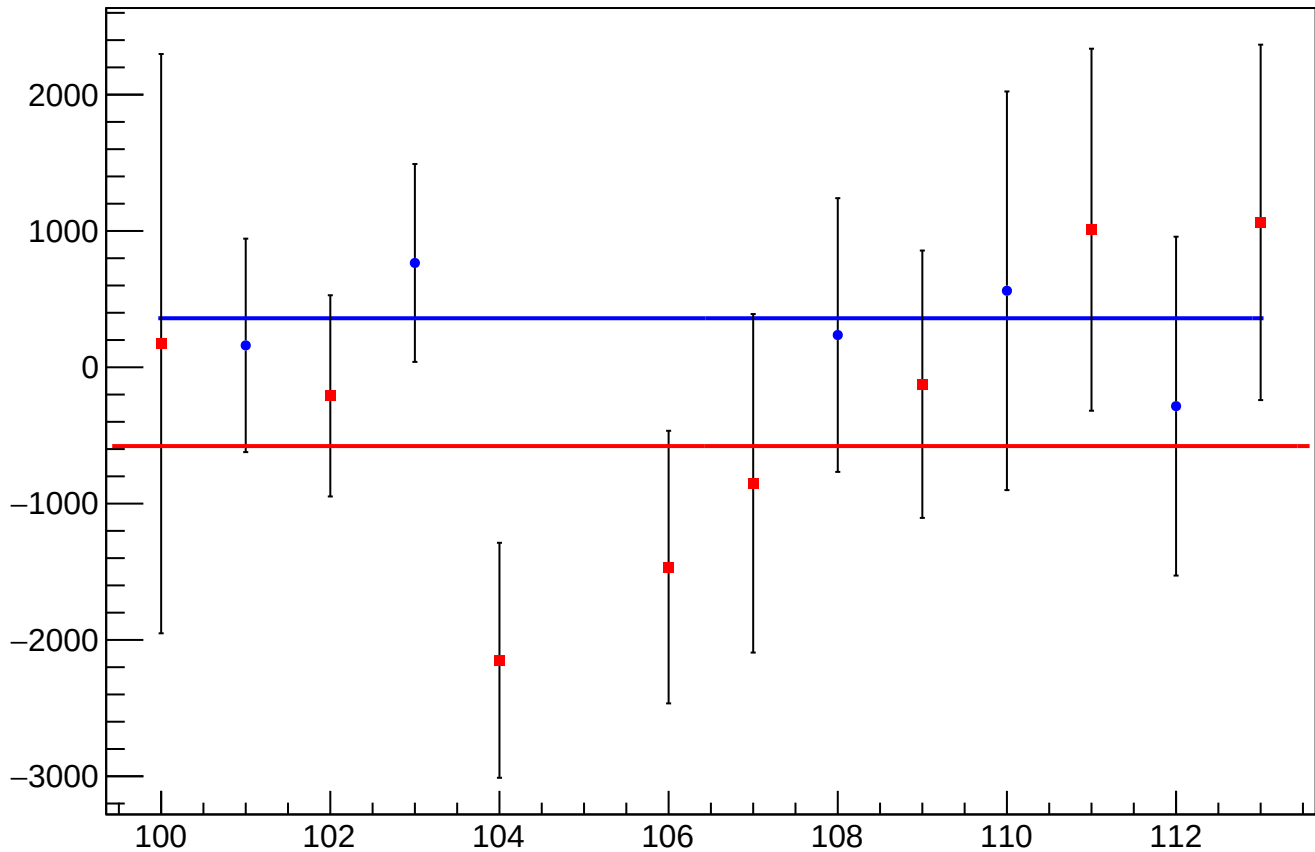
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 673.902 $\pm$ 0.202  $\chi^2$ /NDF: 319813.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_dd\_mean vs Slug



Right In: 359.768 $\pm$ 421.184  $\chi^2$ /NDF: 0.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -577.959 $\pm$ 371.450  $\chi^2$ /NDF: 7.8/7

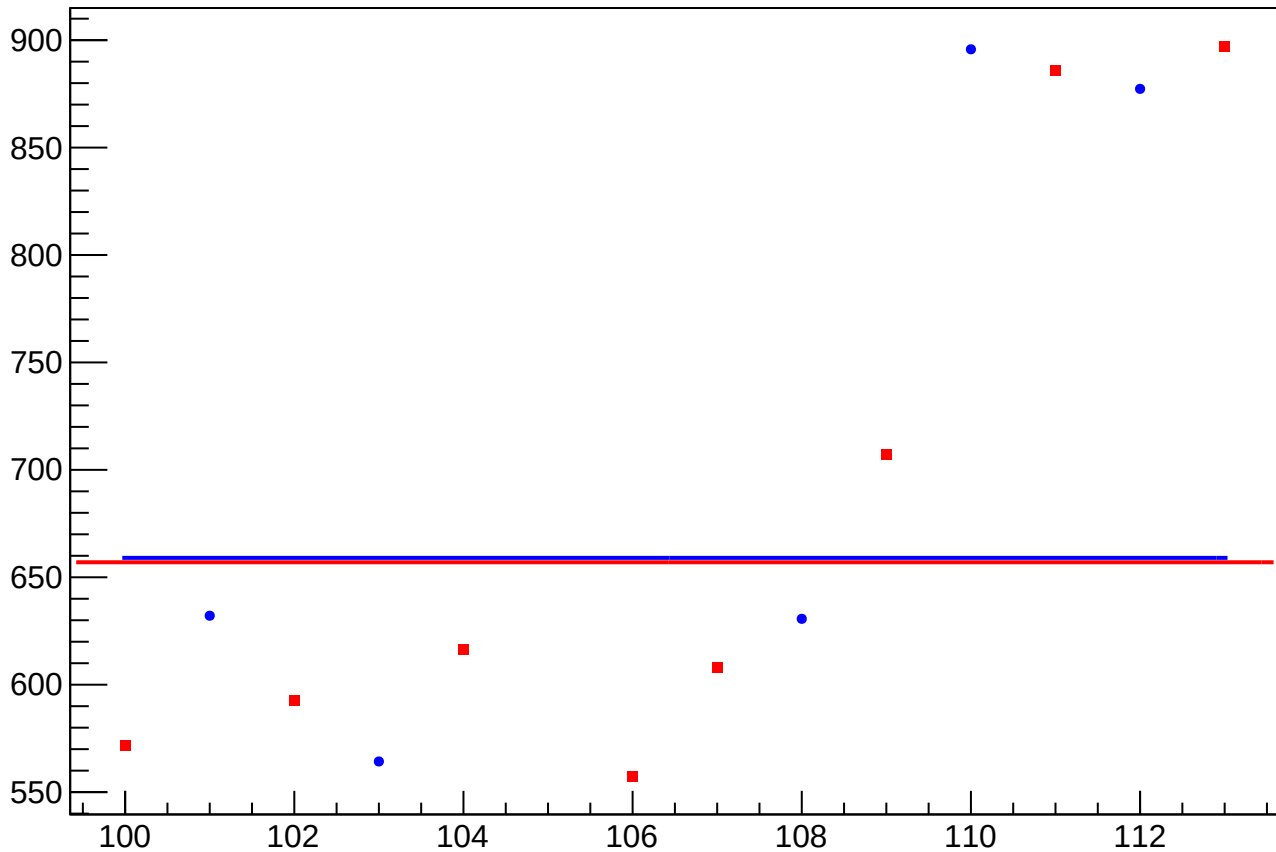
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -167.702 $\pm$ 278.587  $\chi^2$ /NDF: 11.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_dd\_rms vs Slug



Right In: 659.040 $\pm$ 0.298  $\chi^2$ /NDF: 152176.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 656.989 $\pm$ 0.263  $\chi^2$ /NDF: 178201.1/7

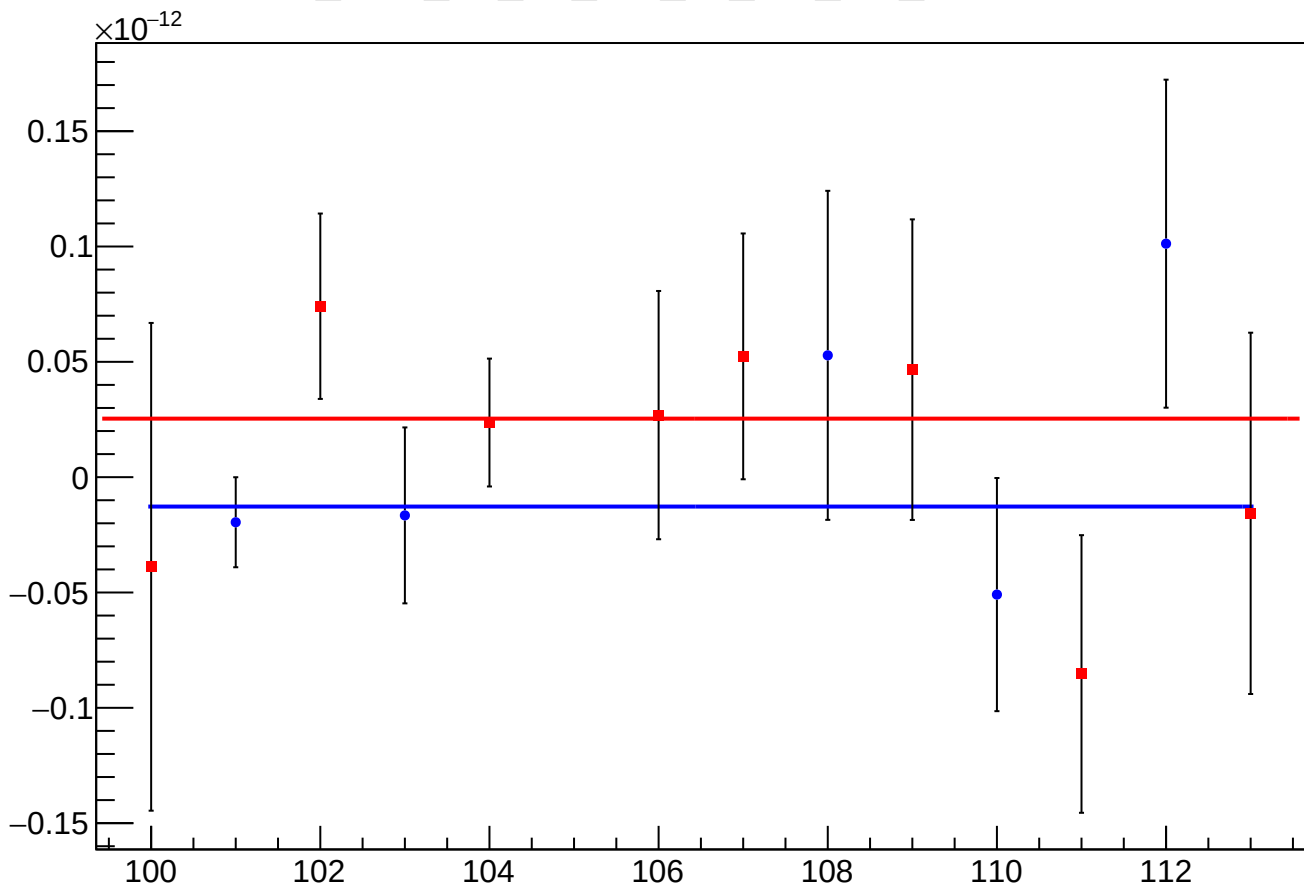
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 657.886 $\pm$ 0.197  $\chi^2$ /NDF: 330404.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 4.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 5.9/7

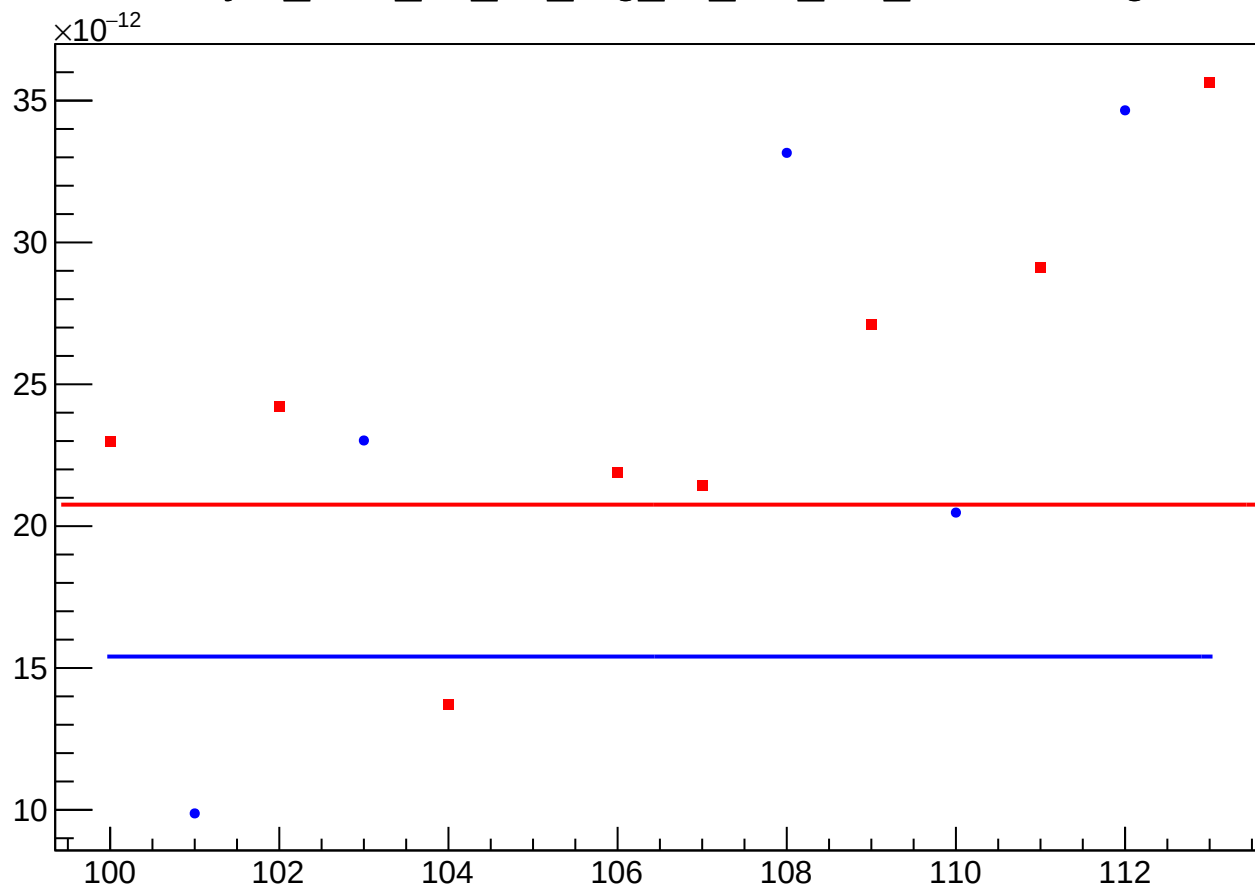
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 12.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 531063.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 276112.9/7

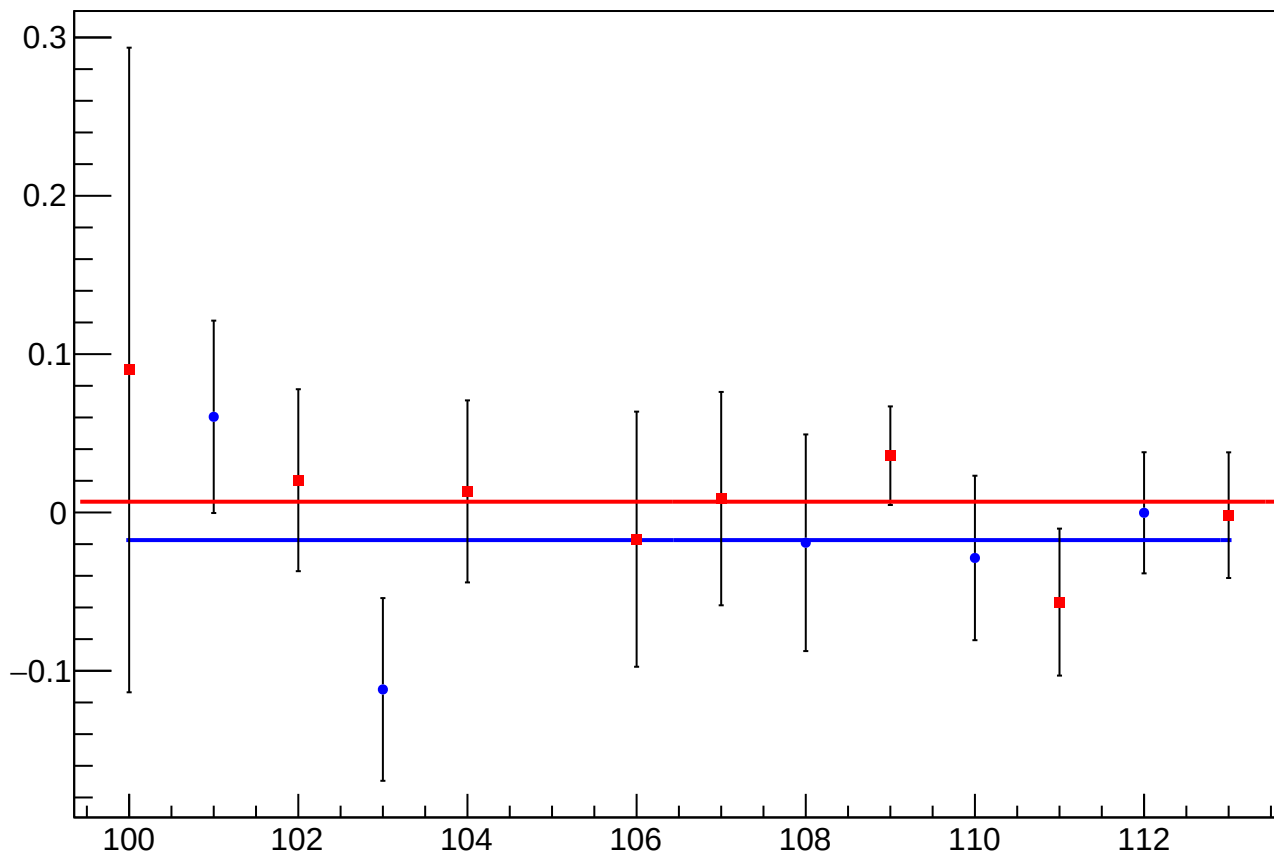
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 913441.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.017 \pm 0.023$   $\chi^2/\text{NDF}$ : 4.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.007 \pm 0.018$   $\chi^2/\text{NDF}$ : 3.1/7

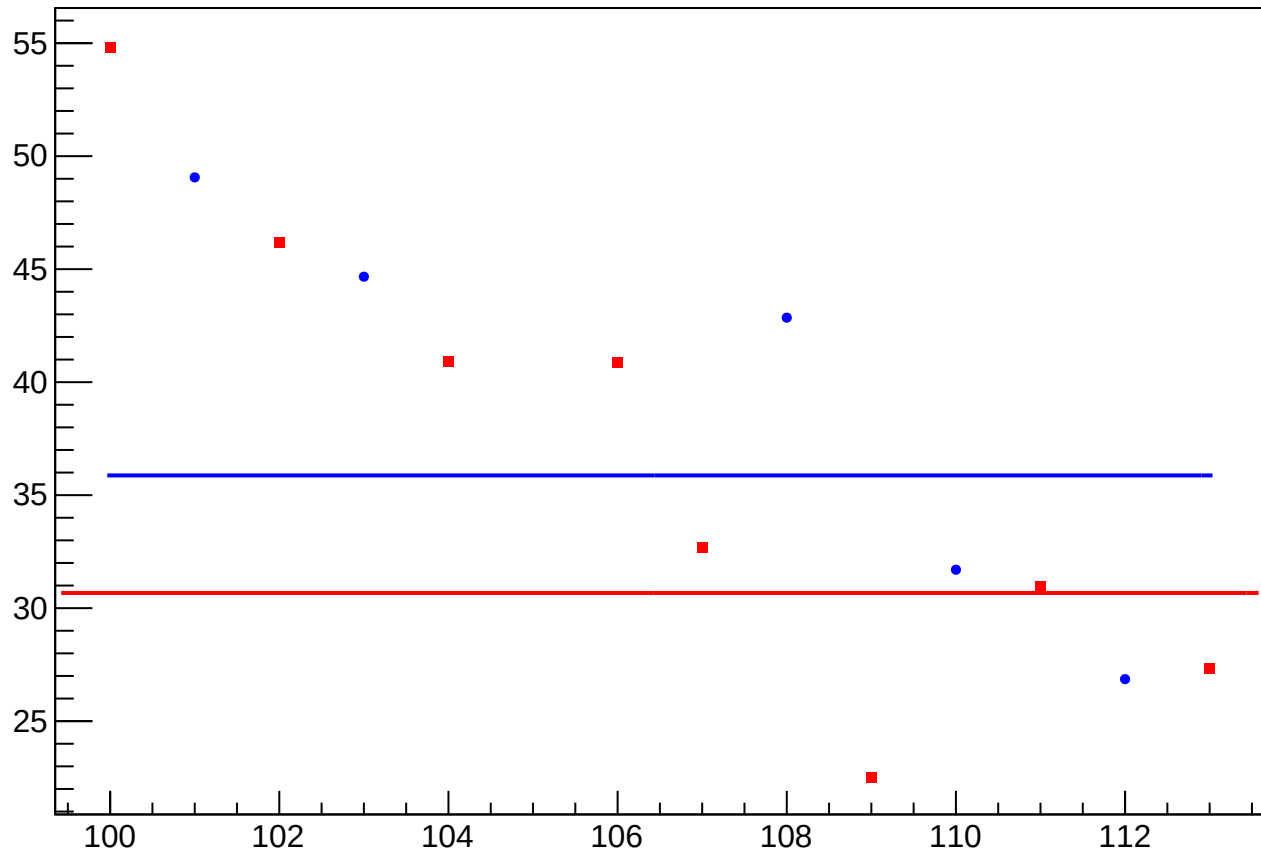
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.002 \pm 0.014$   $\chi^2/\text{NDF}$ : 8.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 35.873 $\pm$ 0.016  $\chi^2$ /NDF: 285484.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 30.673 $\pm$ 0.013  $\chi^2$ /NDF: 423109.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

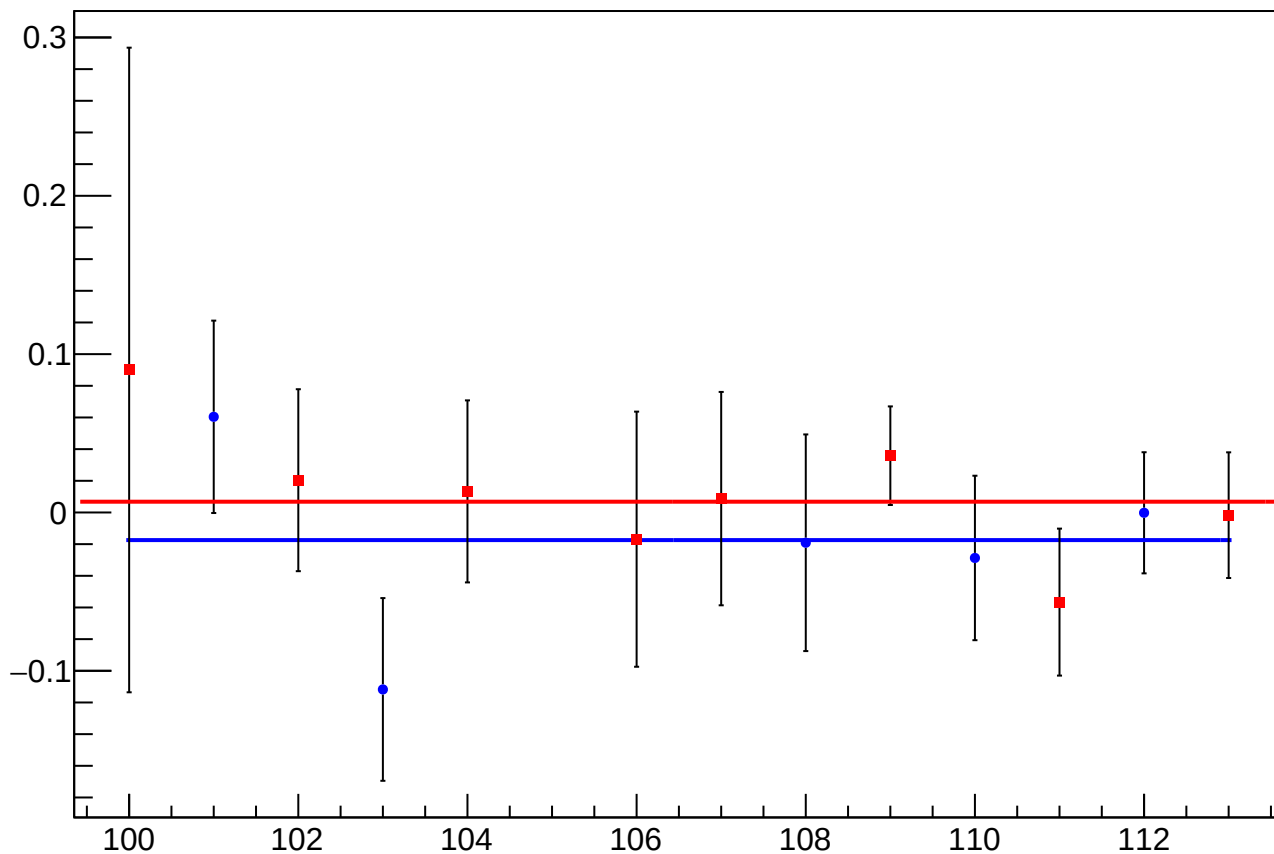
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 32.596 $\pm$ 0.010  $\chi^2$ /NDF: 771275.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.017 \pm 0.023$   $\chi^2/\text{NDF}$ : 4.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.007 \pm 0.018$   $\chi^2/\text{NDF}$ : 3.1/7

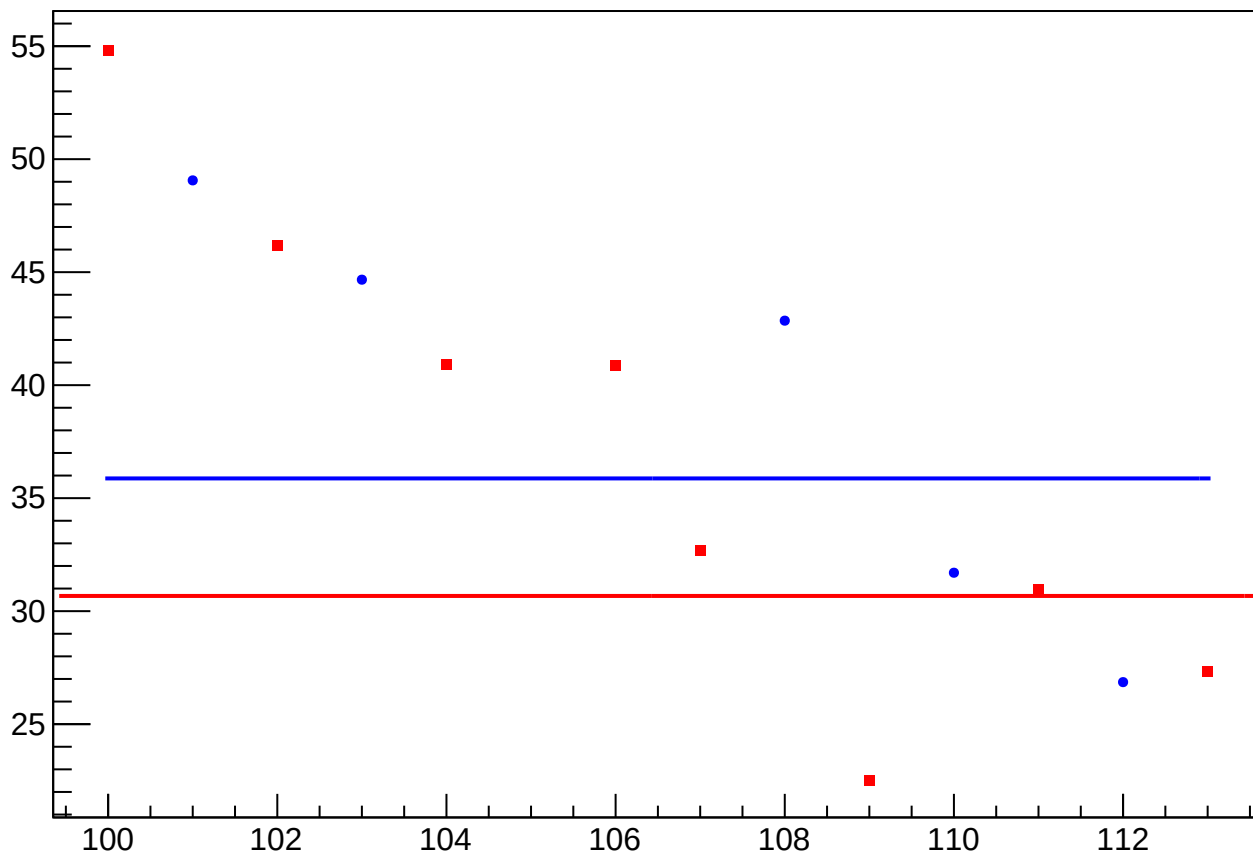
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.002 \pm 0.014$   $\chi^2/\text{NDF}$ : 8.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 35.873+/-0.016  $\chi^2/\text{NDF}$ : 285484.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30.673+/-0.013  $\chi^2/\text{NDF}$ : 423109.4/7

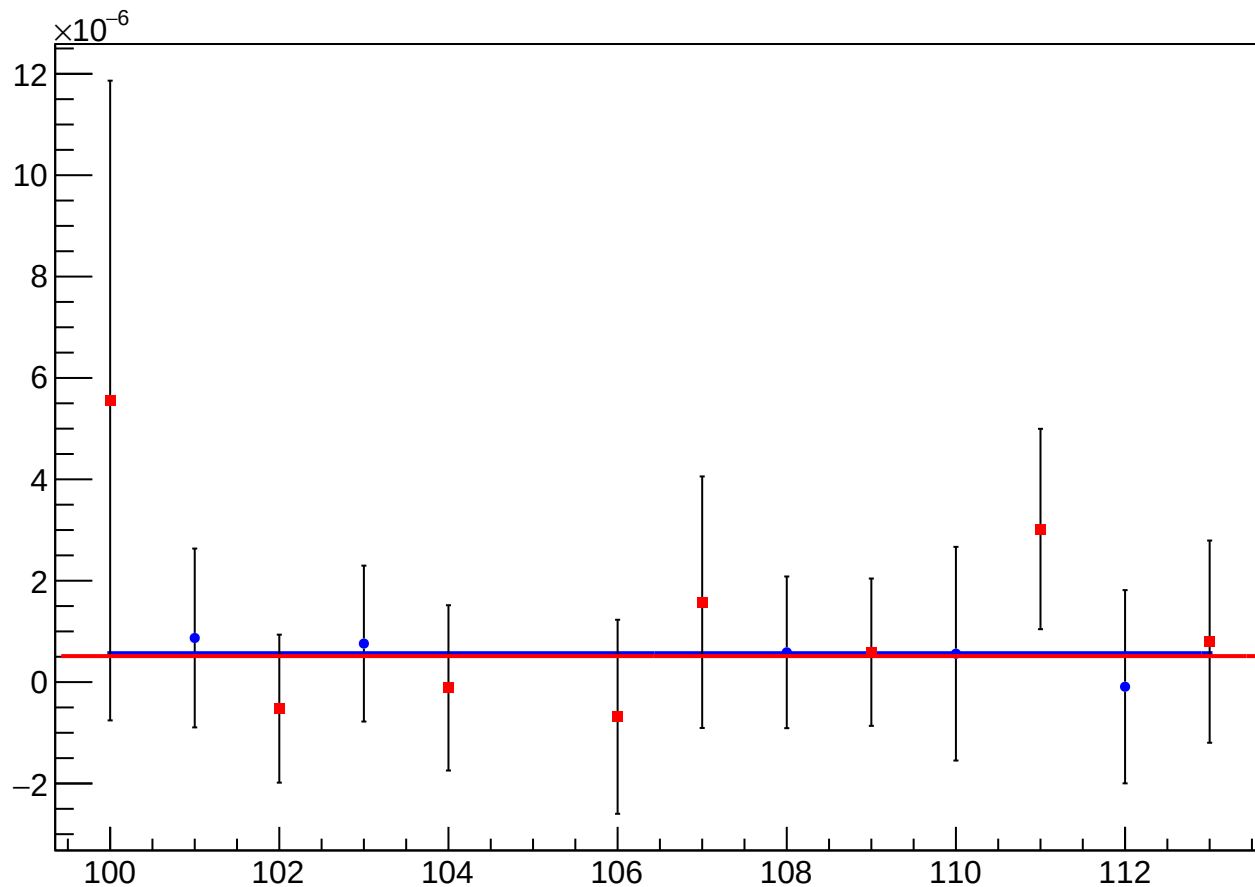
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.596+/-0.010  $\chi^2/\text{NDF}$ : 771275.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.5/7

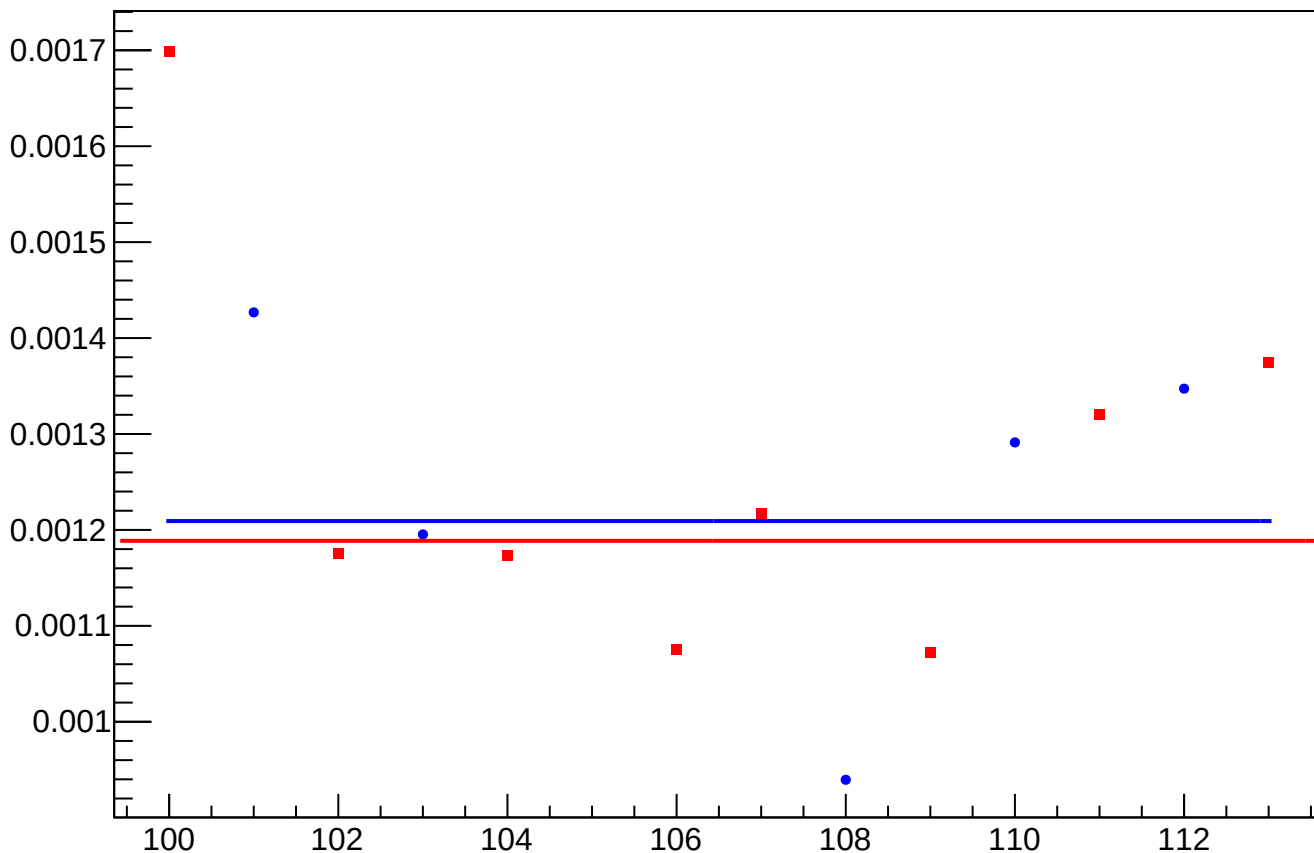
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 109087.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 59721.0/7

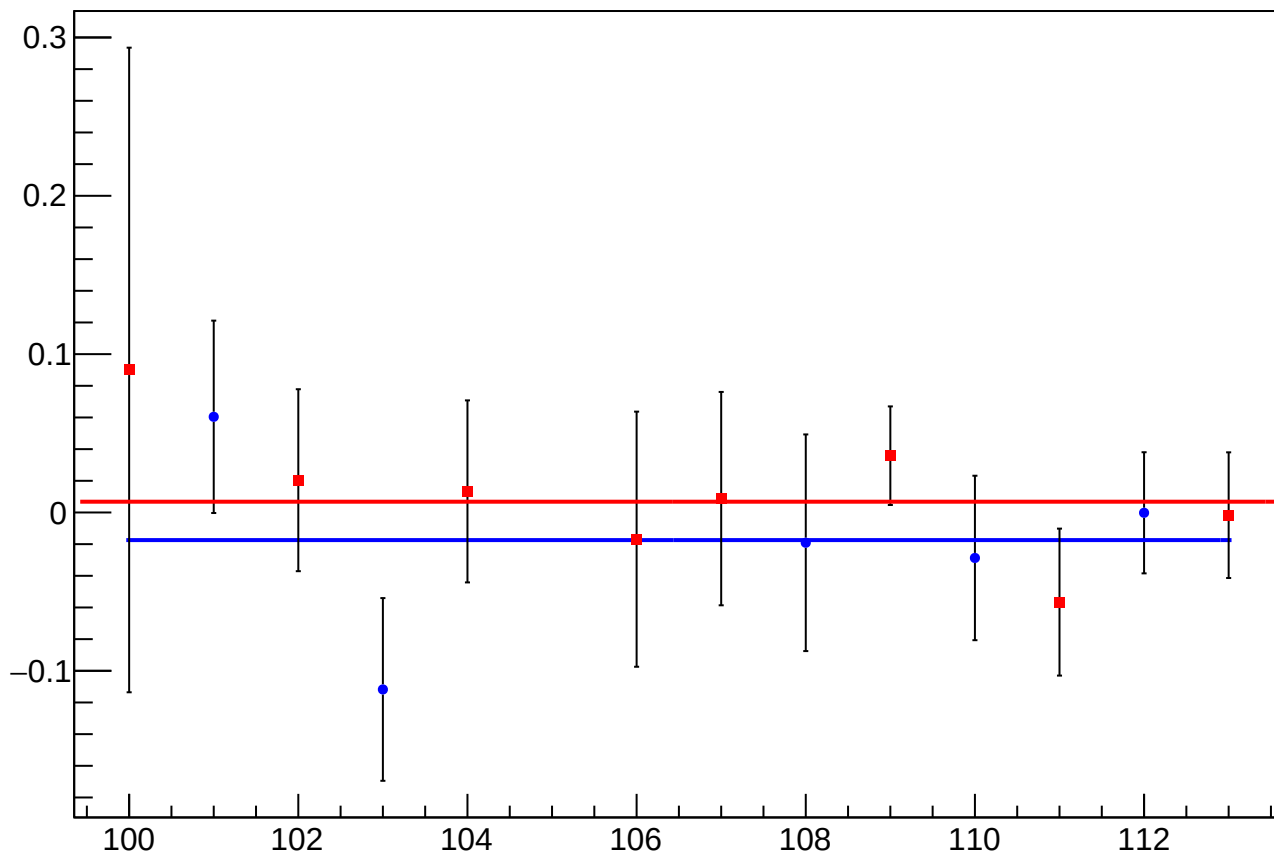
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 169633.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.017 $\pm$ 0.023  $\chi^2$ /NDF: 4.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.007 $\pm$ 0.018  $\chi^2$ /NDF: 3.1/7

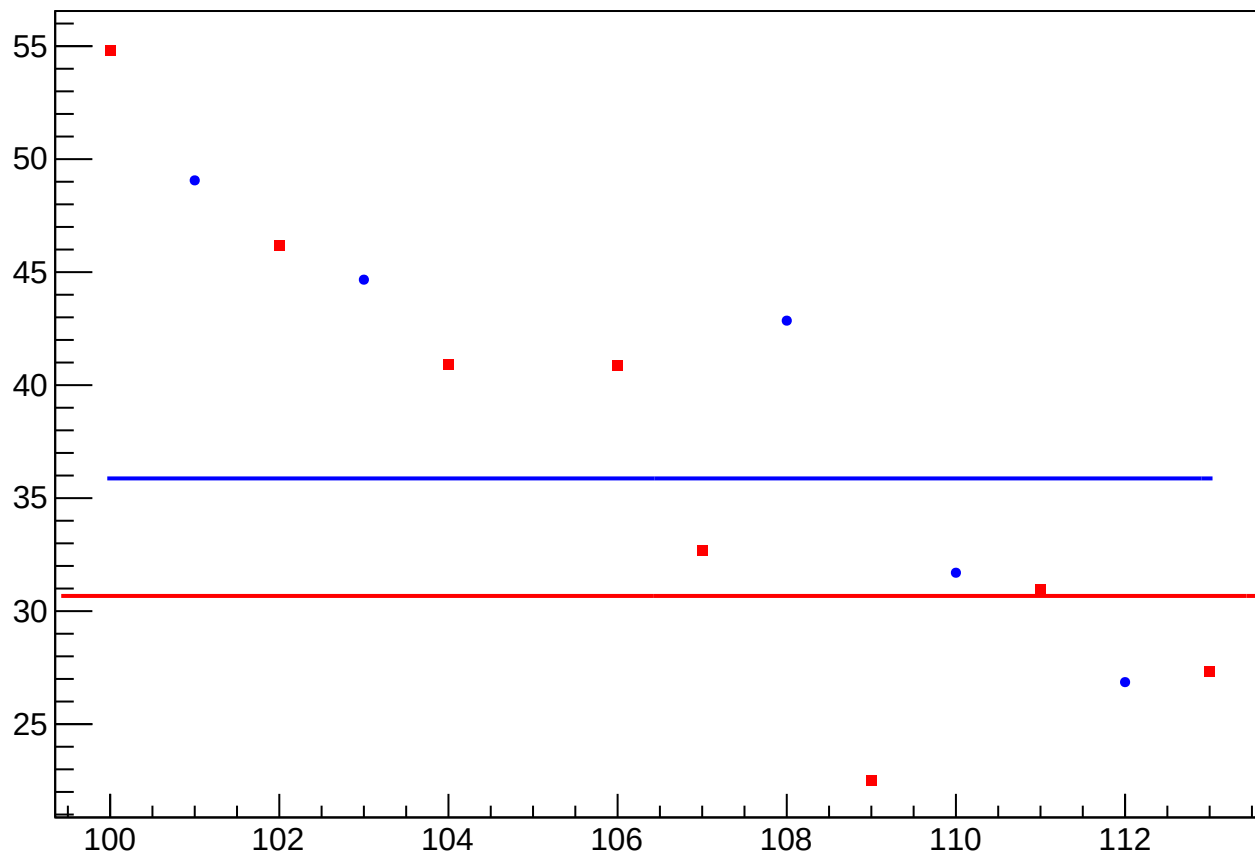
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.002 $\pm$ 0.014  $\chi^2$ /NDF: 8.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 35.872 $\pm$ 0.016  $\chi^2$ /NDF: 285504.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 30.672 $\pm$ 0.013  $\chi^2$ /NDF: 423137.7/7

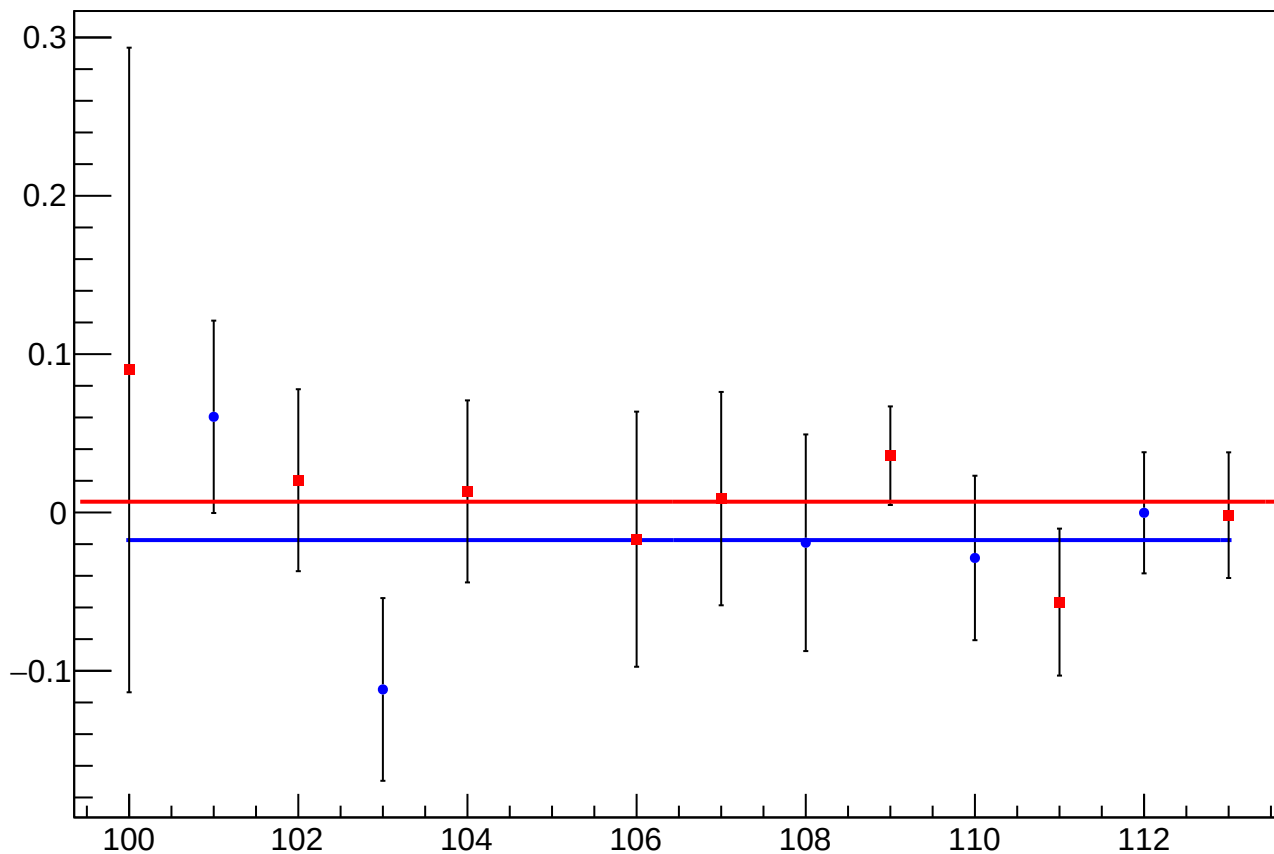
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 32.595 $\pm$ 0.010  $\chi^2$ /NDF: 771326.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.017 \pm 0.023$   $\chi^2/\text{NDF}$ : 4.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.007 \pm 0.018$   $\chi^2/\text{NDF}$ : 3.1/7

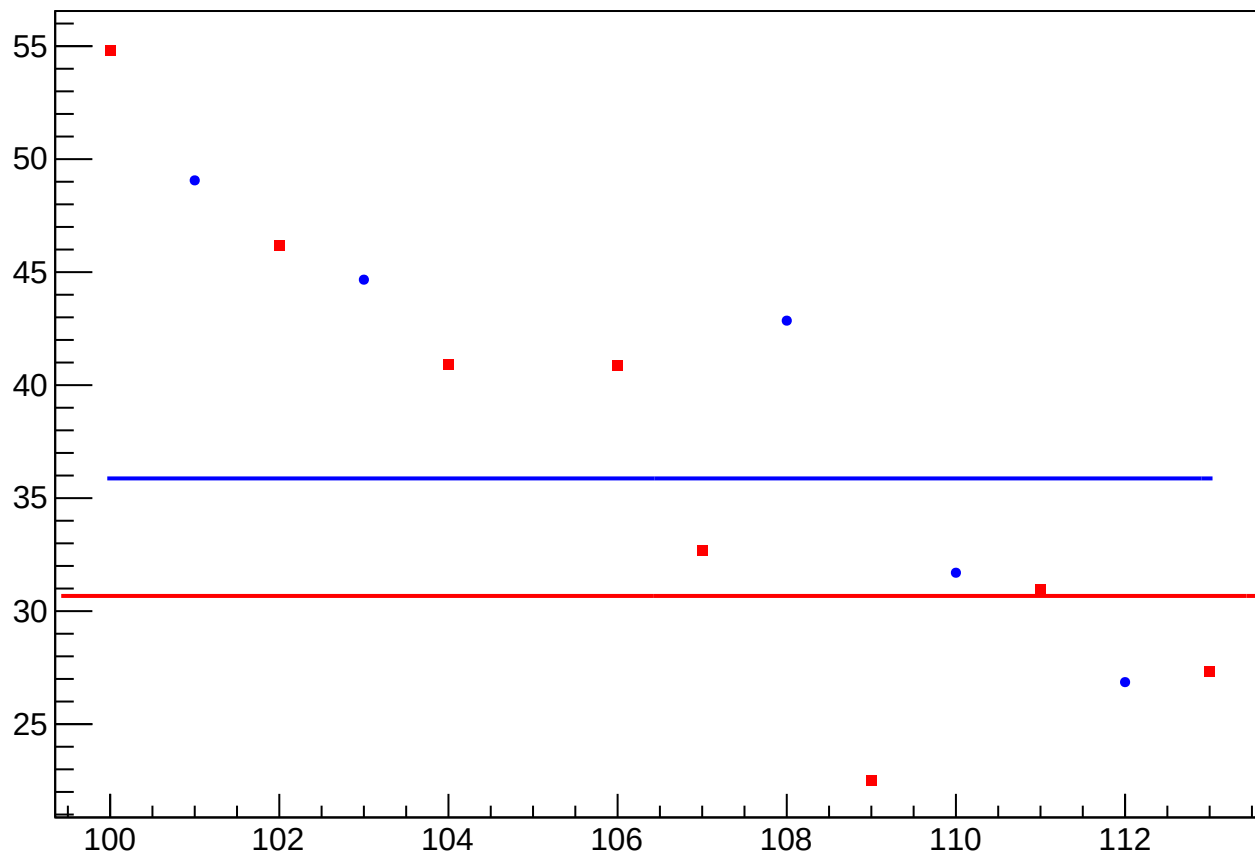
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.002 \pm 0.014$   $\chi^2/\text{NDF}$ : 8.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 35.872 $\pm$ 0.016  $\chi^2$ /NDF: 285504.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 30.672 $\pm$ 0.013  $\chi^2$ /NDF: 423137.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

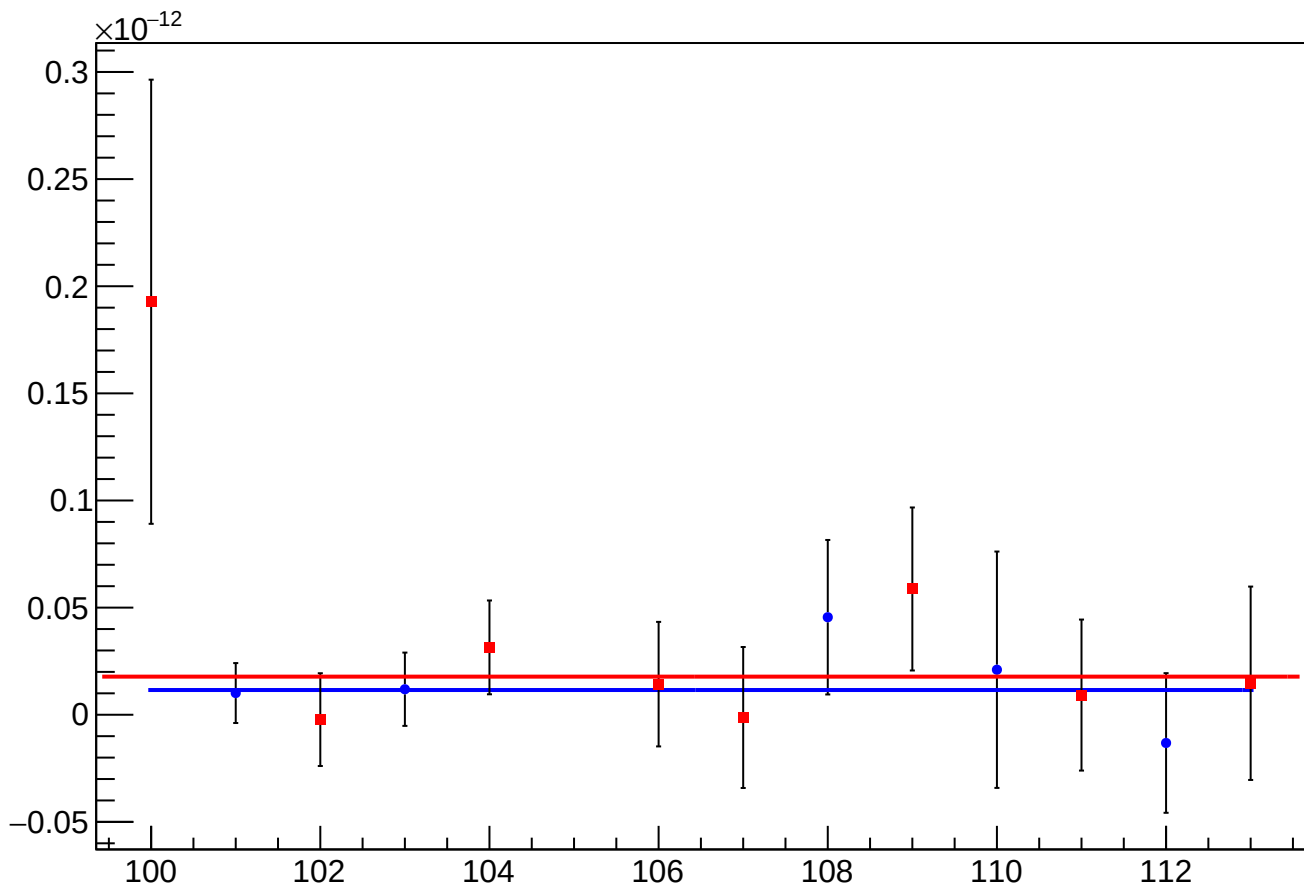
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 32.595 $\pm$ 0.010  $\chi^2$ /NDF: 771326.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.7/7

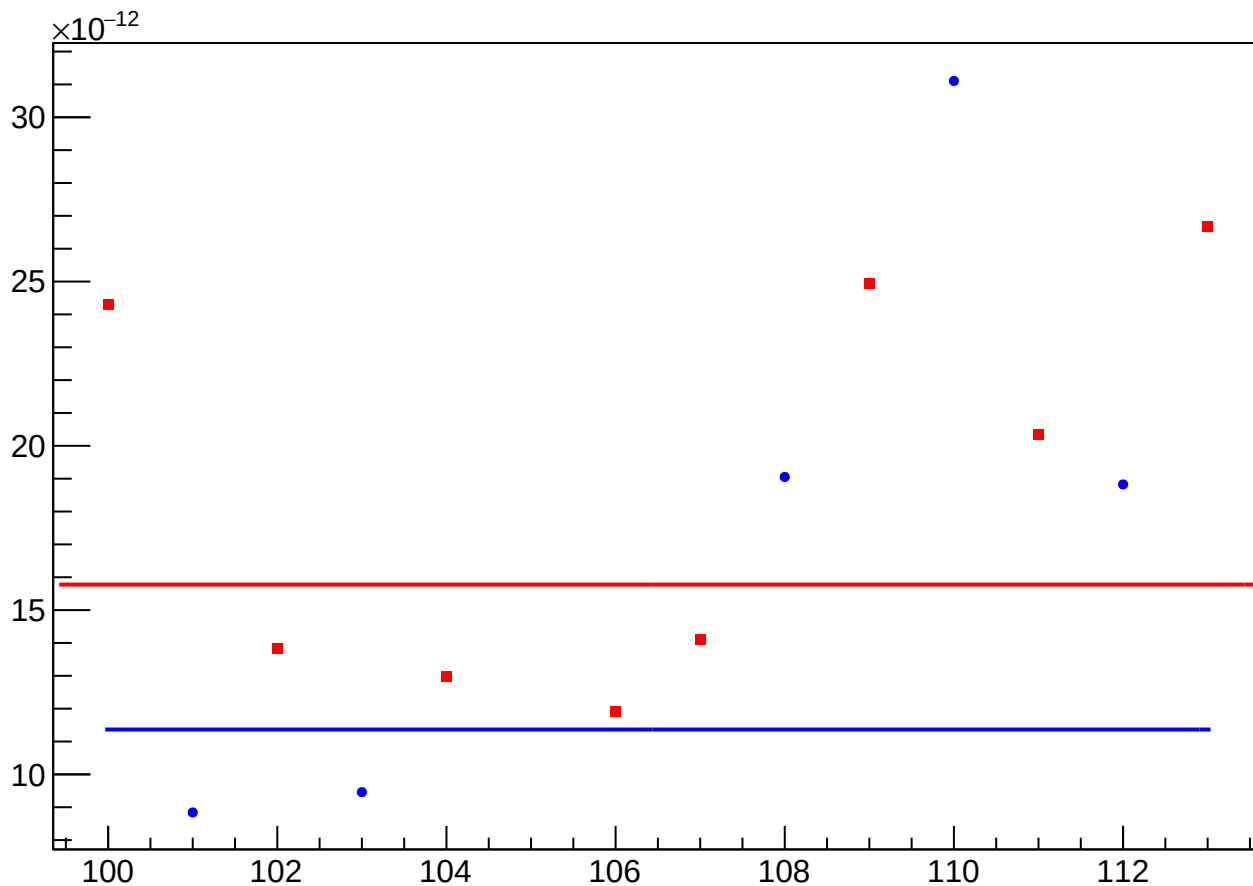
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 541871.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 369570.6/7

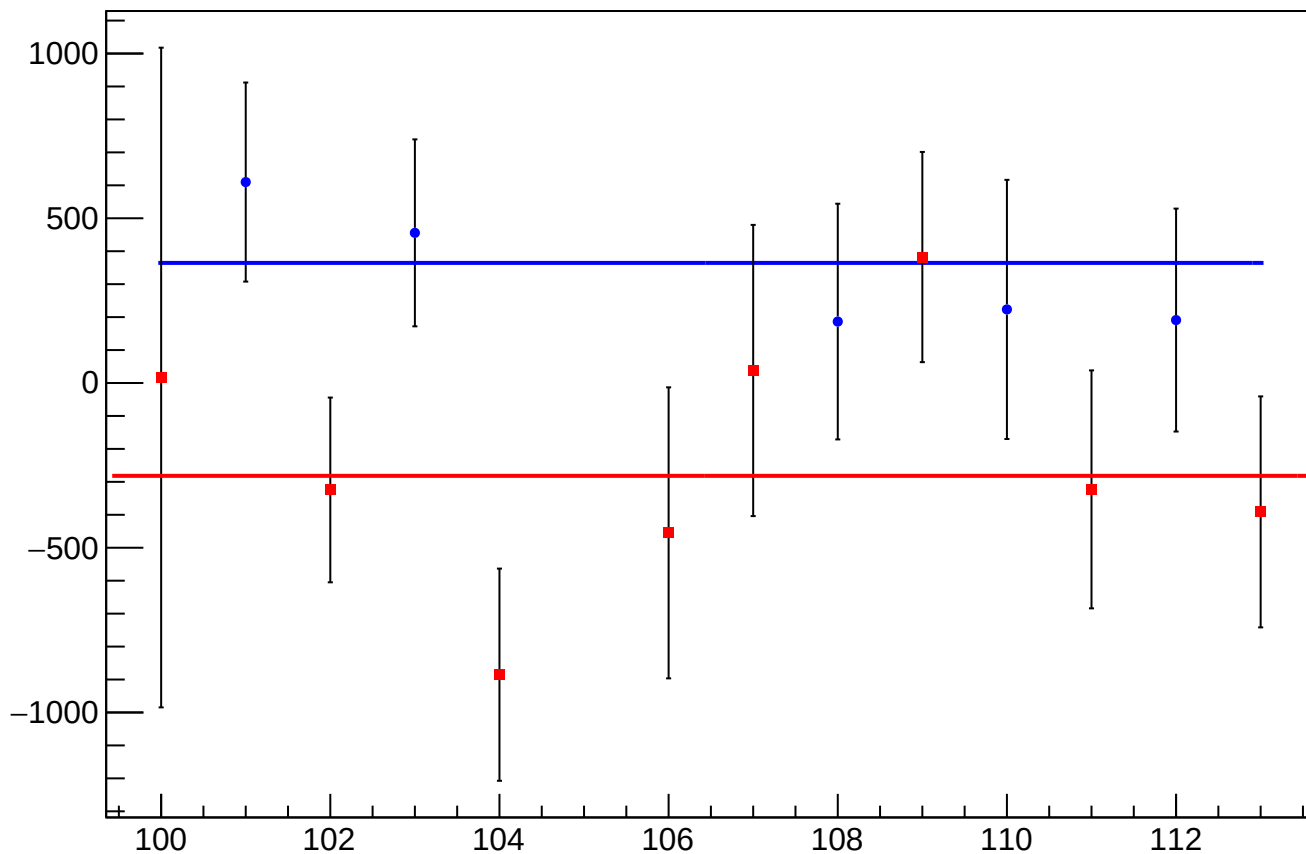
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1093714.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 364.535 $\pm$ 146.813  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -281.742 $\pm$ 129.923  $\chi^2$ /NDF: 8.7/7

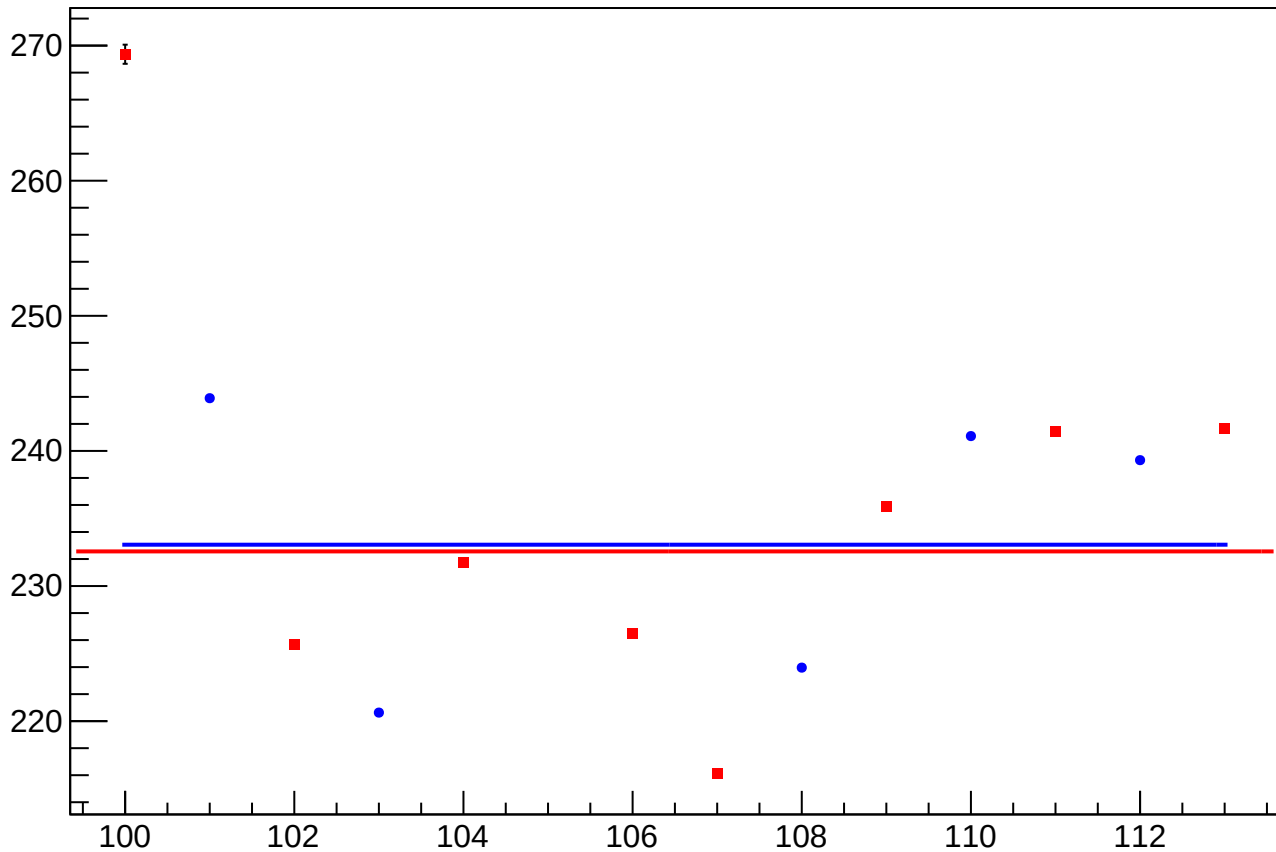
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.098 $\pm$ 97.295  $\chi^2$ /NDF: 21.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 233.060 $\pm$ 0.104  $\chi^2$ /NDF: 9226.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 232.563 $\pm$ 0.092  $\chi^2$ /NDF: 9844.8/7

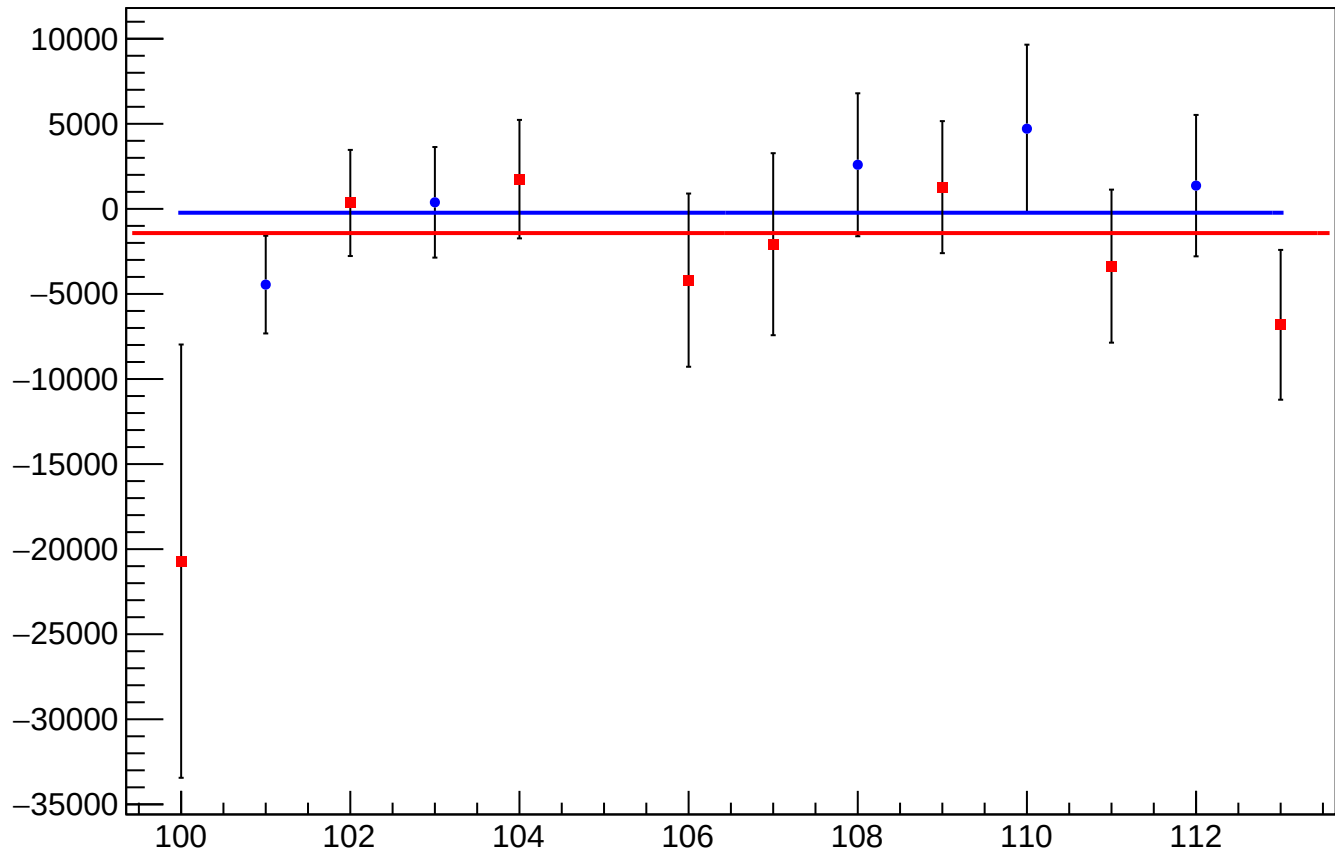
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 232.781 $\pm$ 0.069  $\chi^2$ /NDF: 19084.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_dd\_reg\_correction\_mean vs Slug



Right In: -226.694+/-1640.678  $\chi^2/\text{NDF}$ : 3.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1422.418+/-1520.728  $\chi^2/\text{NDF}$ : 5.9/7

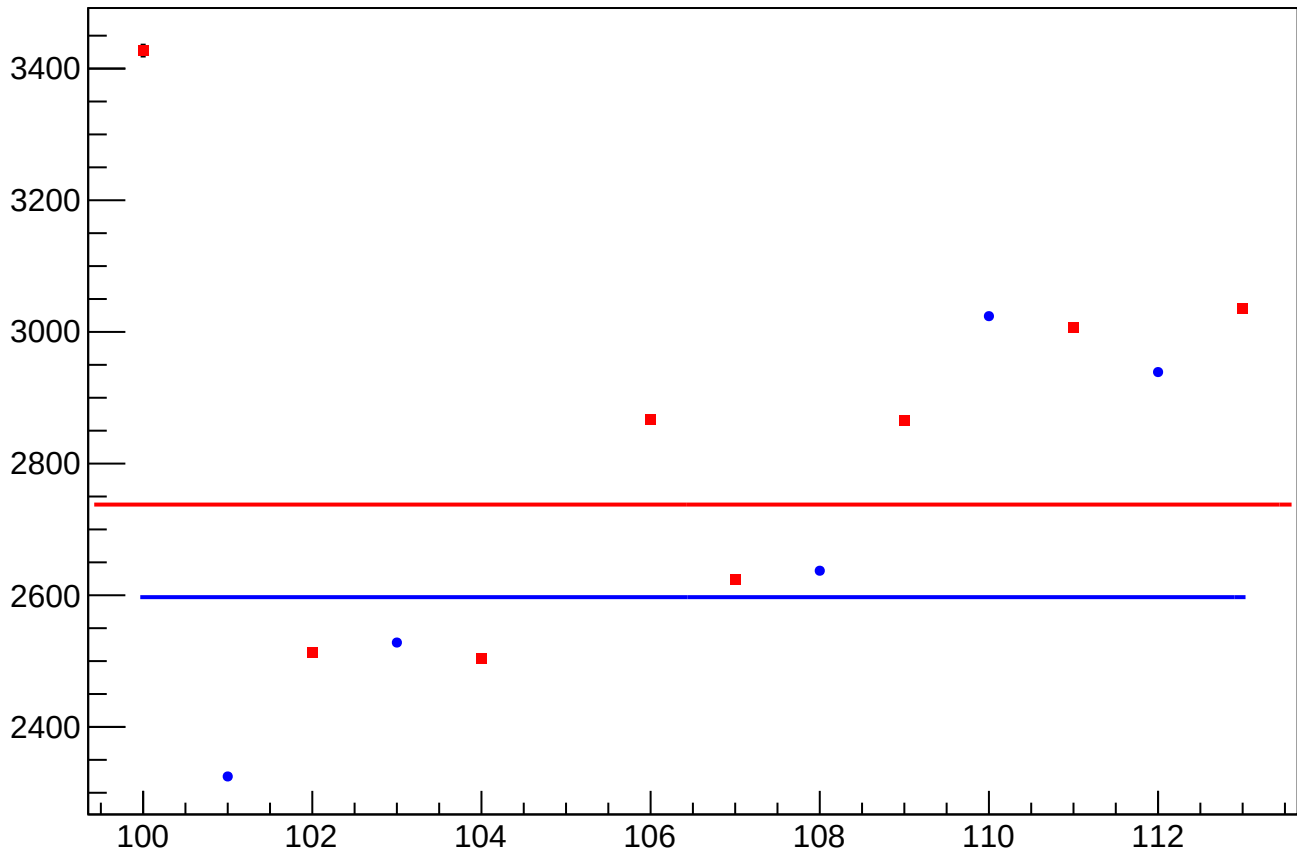
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -869.859+/-1115.314  $\chi^2/\text{NDF}$ : 10.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_reg\_correction\_rms vs Slug



Right In: 2597.132 $\pm$ 1.160  $\chi^2$ /NDF: 47549.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2737.755 $\pm$ 1.075  $\chi^2$ /NDF: 45837.6/7

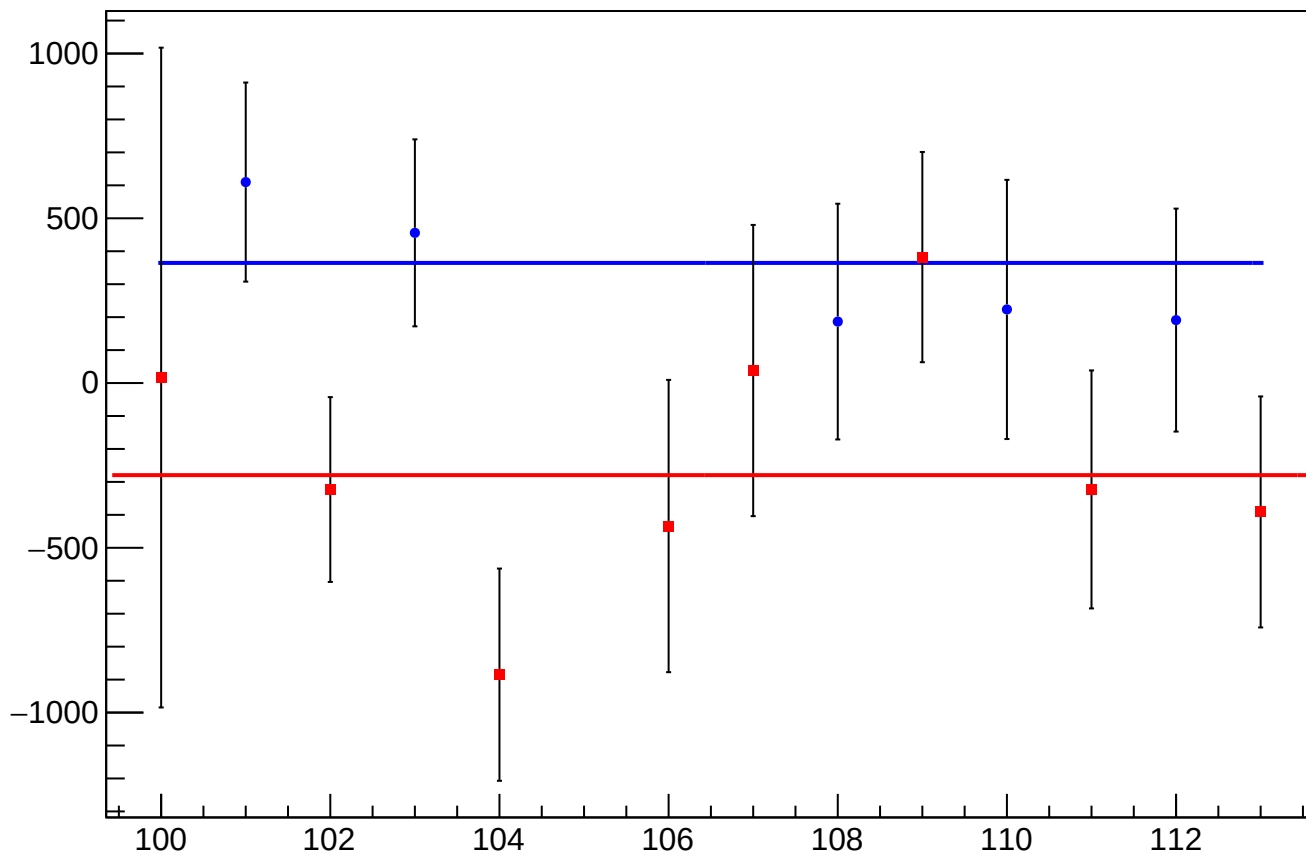
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2672.771 $\pm$ 0.789  $\chi^2$ /NDF: 101290.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 364.567 $\pm$ 146.813  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -279.473 $\pm$ 129.977  $\chi^2$ /NDF: 8.7/7

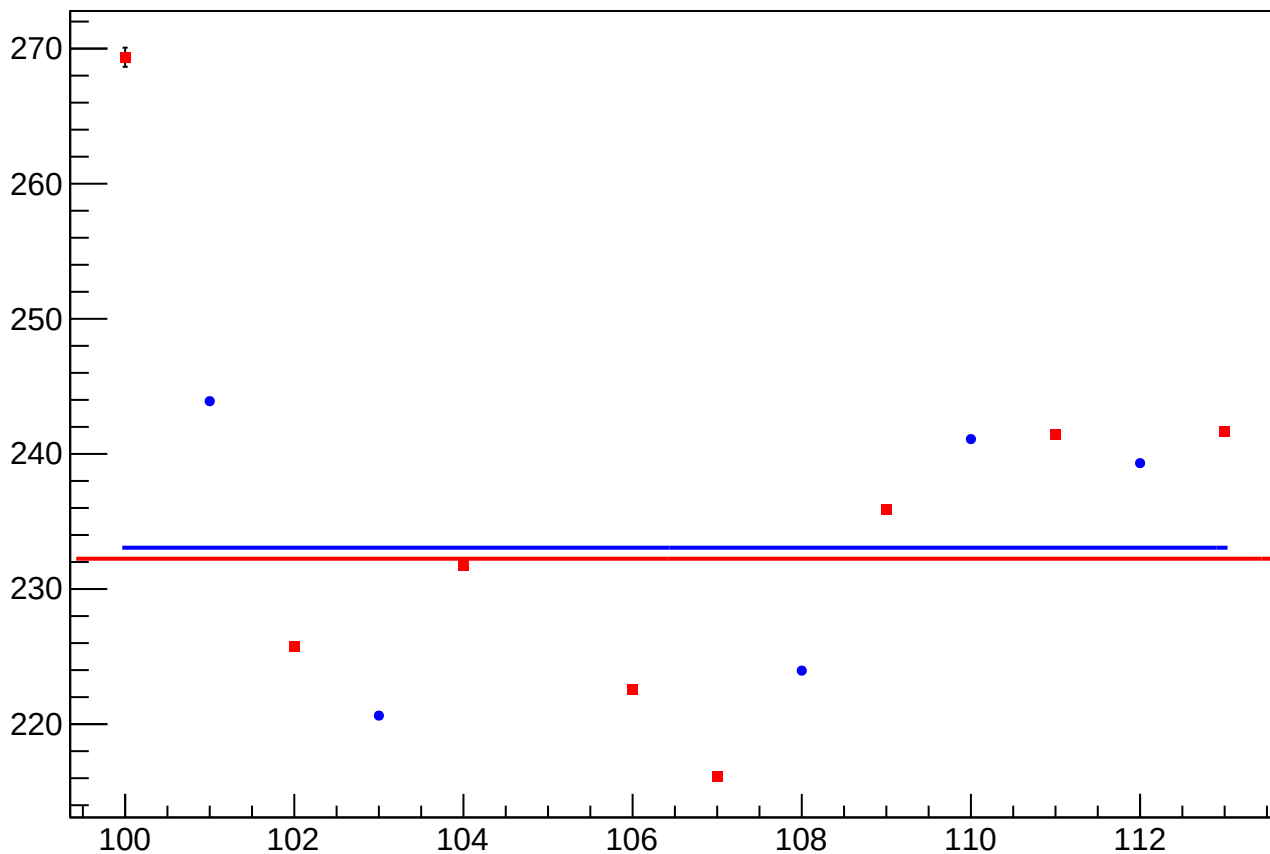
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.516 $\pm$ 97.318  $\chi^2$ /NDF: 20.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 233.060 $\pm$ 0.104  $\chi^2$ /NDF: 9226.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 232.244 $\pm$ 0.092  $\chi^2$ /NDF: 10451.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

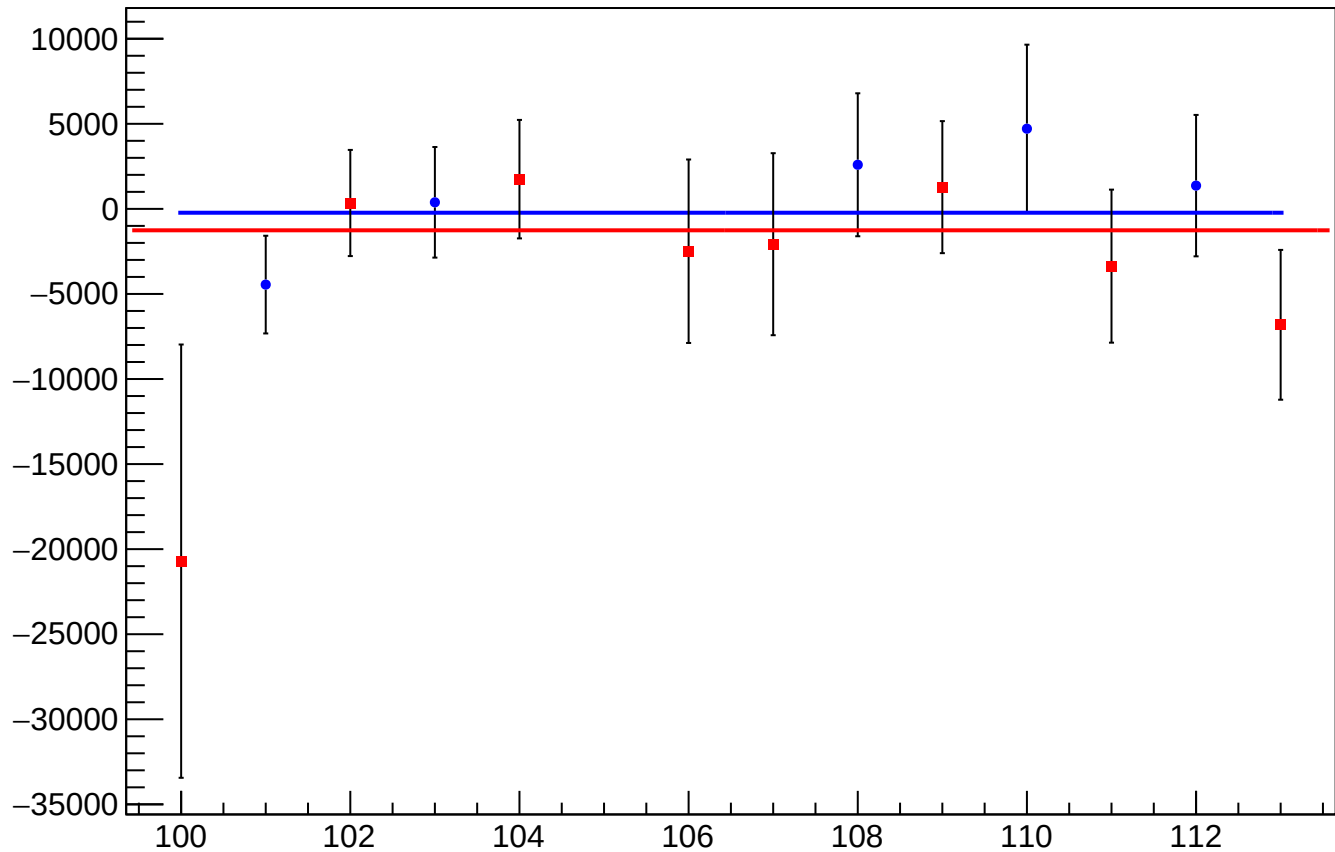
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 232.603 $\pm$ 0.069  $\chi^2$ /NDF: 19712.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_26\_dd\_cor\_correction\_mean vs Slug



Right In: -226.511+/-1640.689  $\chi^2/\text{NDF}$ : 3.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1259.646+/-1528.290  $\chi^2/\text{NDF}$ : 5.7/7

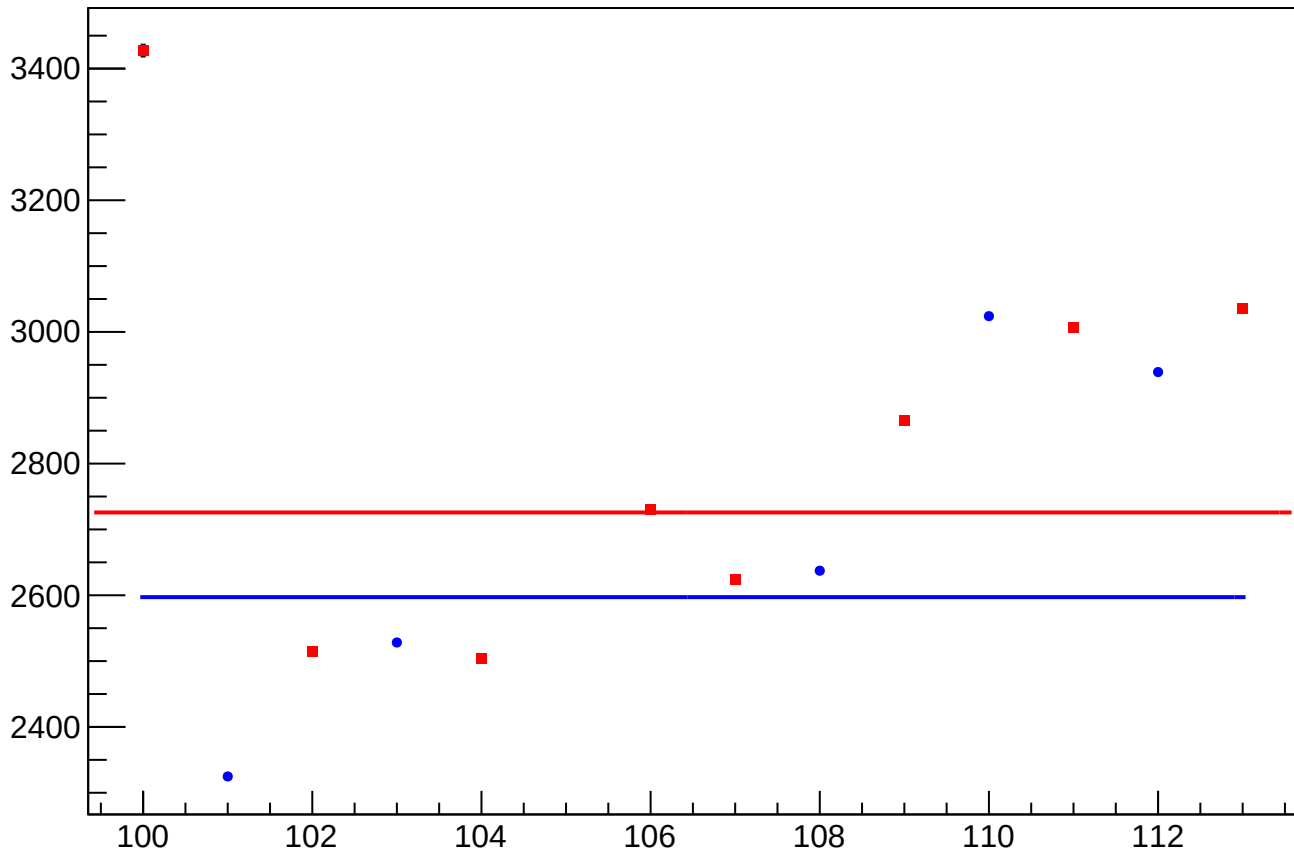
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -779.676+/-1118.290  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_cor\_correction\_rms vs Slug



Right In: 2597.149+/-1.160  $\chi^2/\text{NDF}$ : 47547.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2725.800+/-1.081  $\chi^2/\text{NDF}$ : 44341.5/7

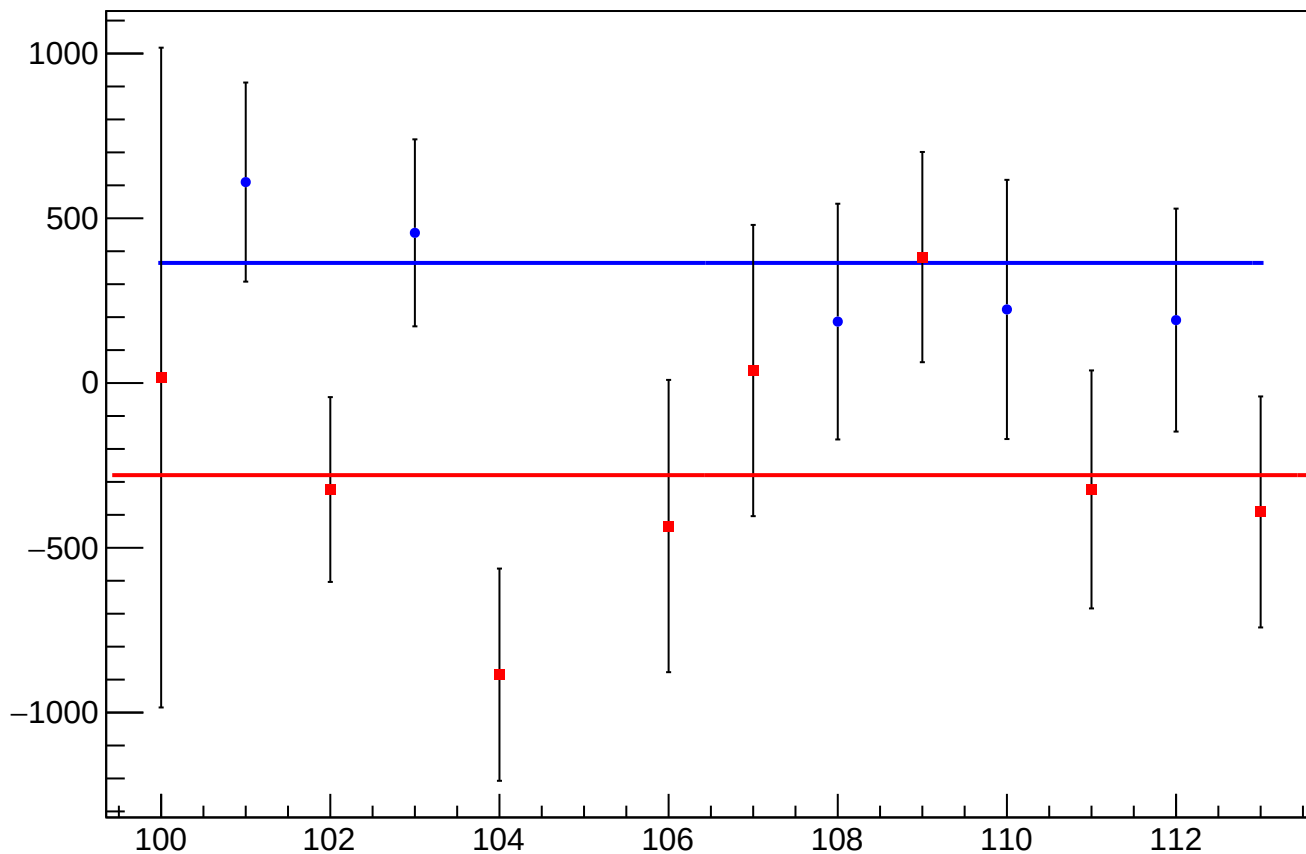
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2666.032+/-0.791  $\chi^2/\text{NDF}$ : 98473.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 364.567 $\pm$ 146.813  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -279.473 $\pm$ 129.977  $\chi^2$ /NDF: 8.7/7

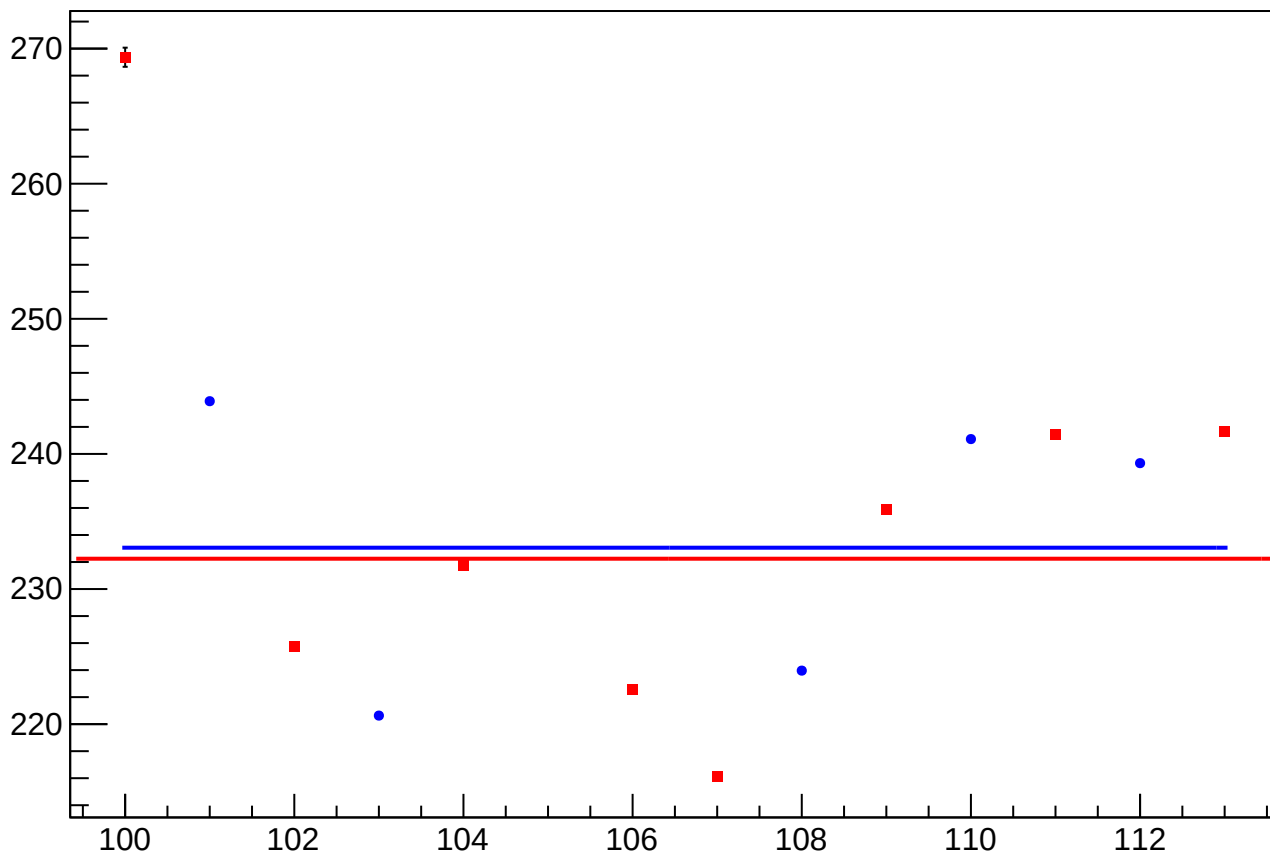
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.516 $\pm$ 97.318  $\chi^2$ /NDF: 20.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 233.060 $\pm$ 0.104  $\chi^2$ /NDF: 9226.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 232.244 $\pm$ 0.092  $\chi^2$ /NDF: 10451.5/7

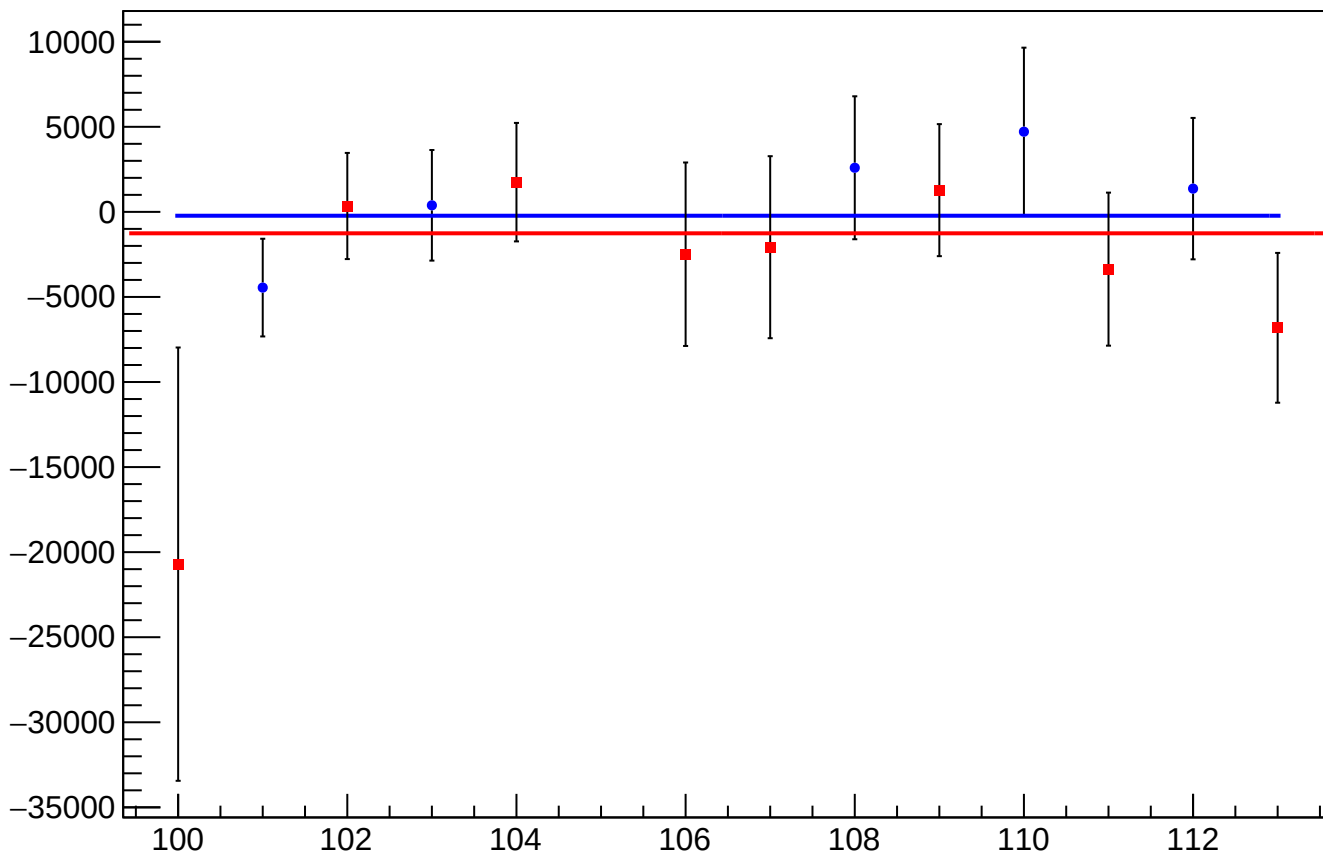
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 232.603 $\pm$ 0.069  $\chi^2$ /NDF: 19712.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -226.511+/-1640.689  $\chi^2/\text{NDF}$ : 3.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1259.646+/-1528.290  $\chi^2/\text{NDF}$ : 5.7/7

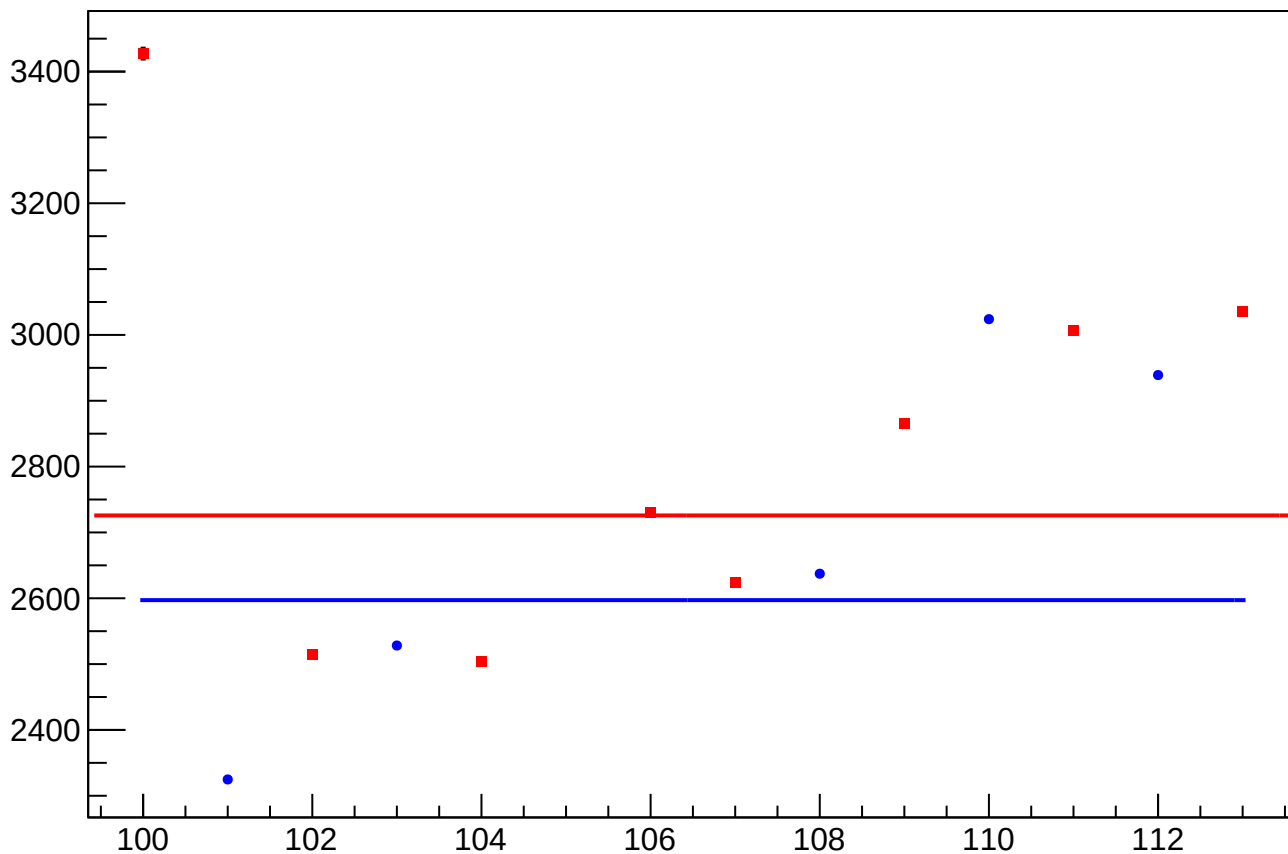
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -779.676+/-1118.290  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 2597.149+/-1.160  $\chi^2/\text{NDF}$ : 47547.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2725.800+/-1.081  $\chi^2/\text{NDF}$ : 44341.5/7

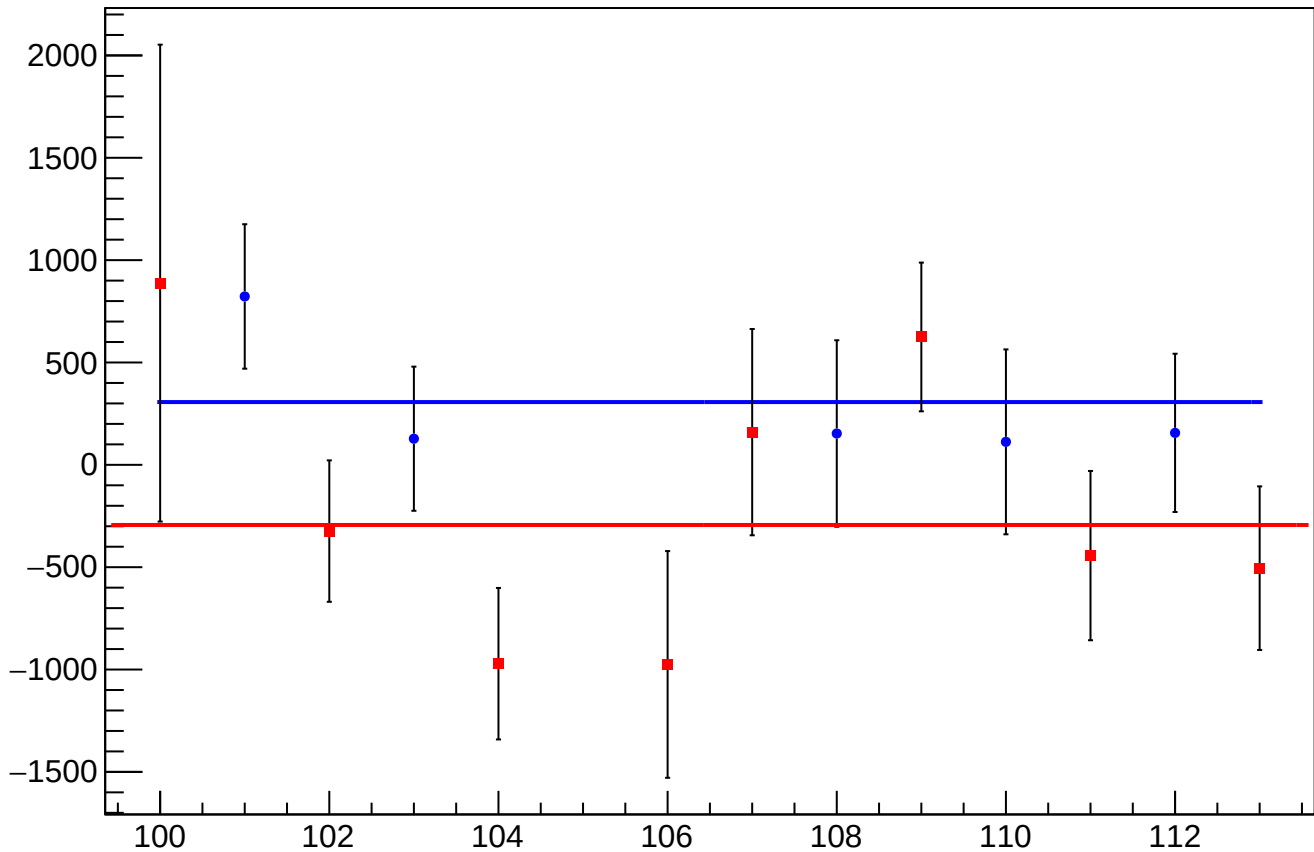
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2666.032+/-0.791  $\chi^2/\text{NDF}$ : 98473.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 306.634 $\pm$ 175.379  $\chi^2$ /NDF: 2.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -293.771 $\pm$ 151.958  $\chi^2$ /NDF: 13.5/7

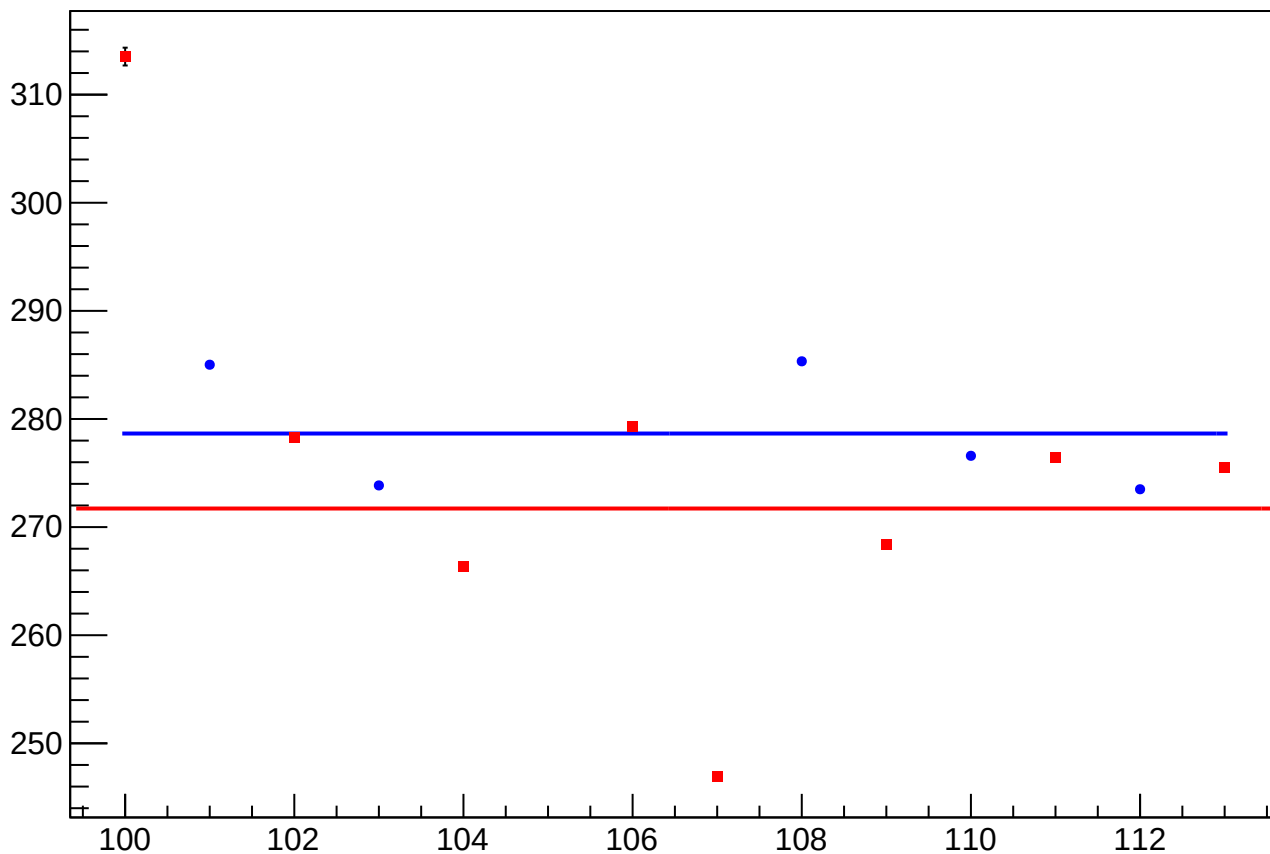
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -36.308 $\pm$ 114.845  $\chi^2$ /NDF: 23.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 278.655 $\pm$ 0.124  $\chi^2$ /NDF: 1849.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 271.719 $\pm$ 0.107  $\chi^2$ /NDF: 9566.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

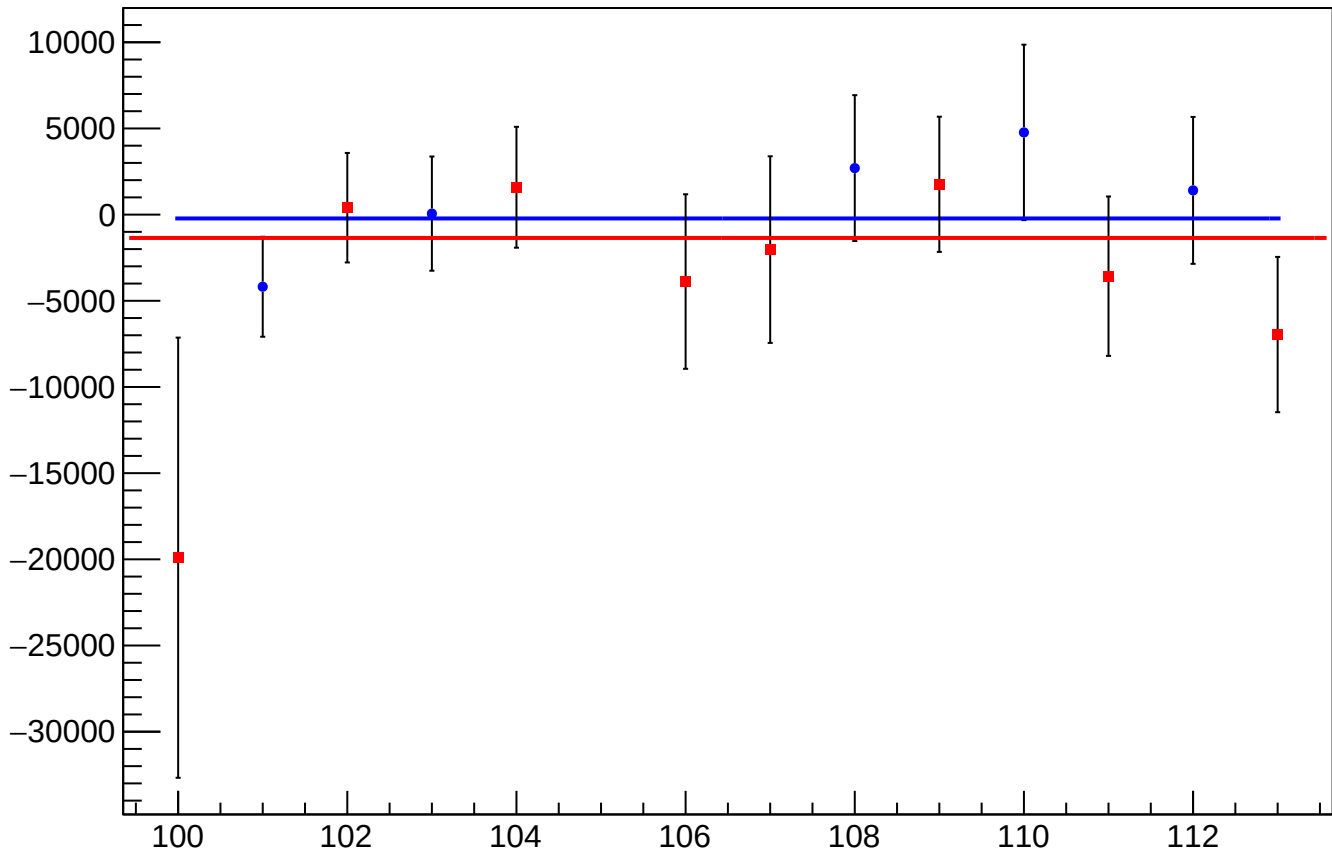
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 274.693 $\pm$ 0.081  $\chi^2$ /NDF: 13203.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_26\_dd\_dit\_correction\_mean vs Slug



Right In: -222.310+/-1667.820  $\chi^2/\text{NDF}$ : 3.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1353.061+/-1541.730  $\chi^2/\text{NDF}$ : 5.8/7

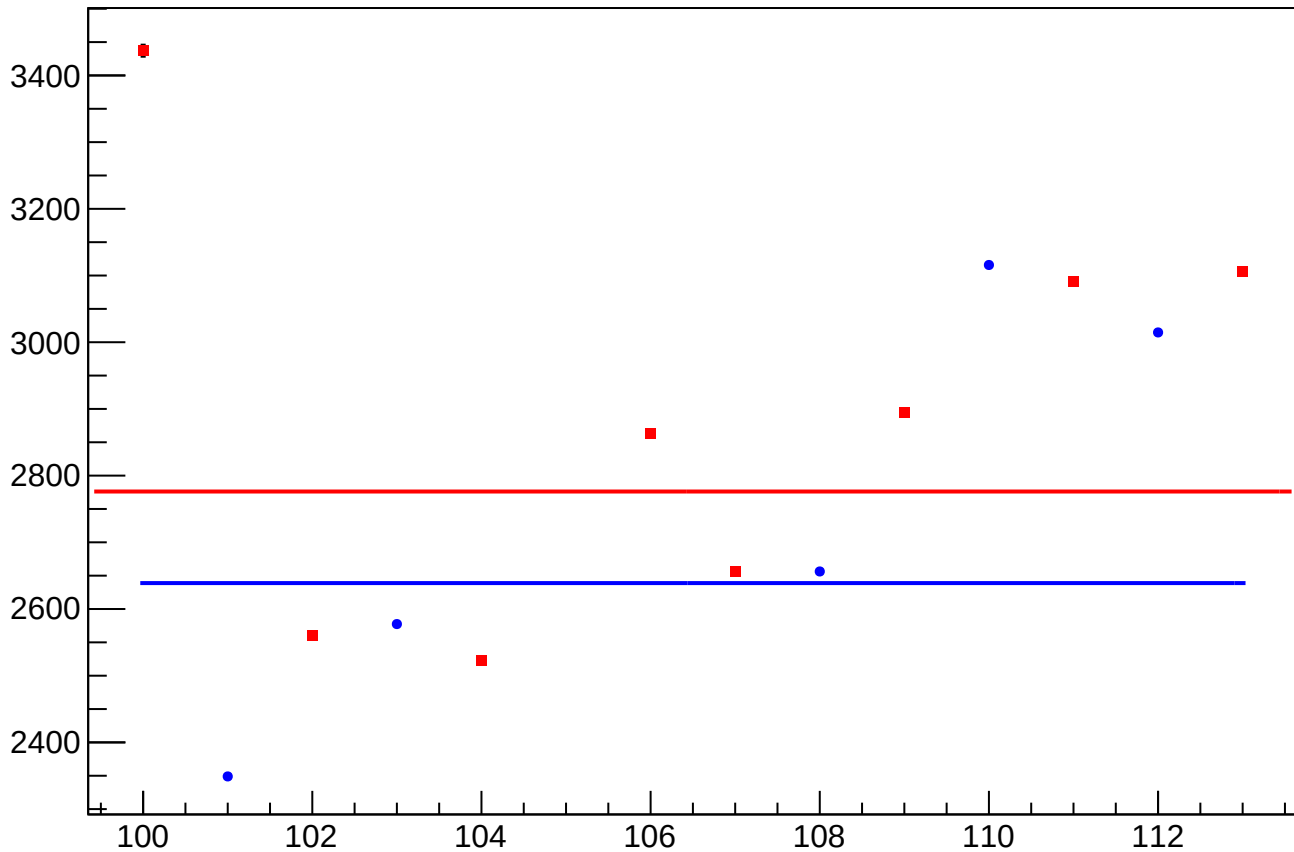
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -832.040+/-1132.123  $\chi^2/\text{NDF}$ : 9.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_dit\_correction\_rms vs Slug



Right In: 2638.866 $\pm$ 1.179  $\chi^2$ /NDF: 53816.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2776.164 $\pm$ 1.090  $\chi^2$ /NDF: 48499.6/7

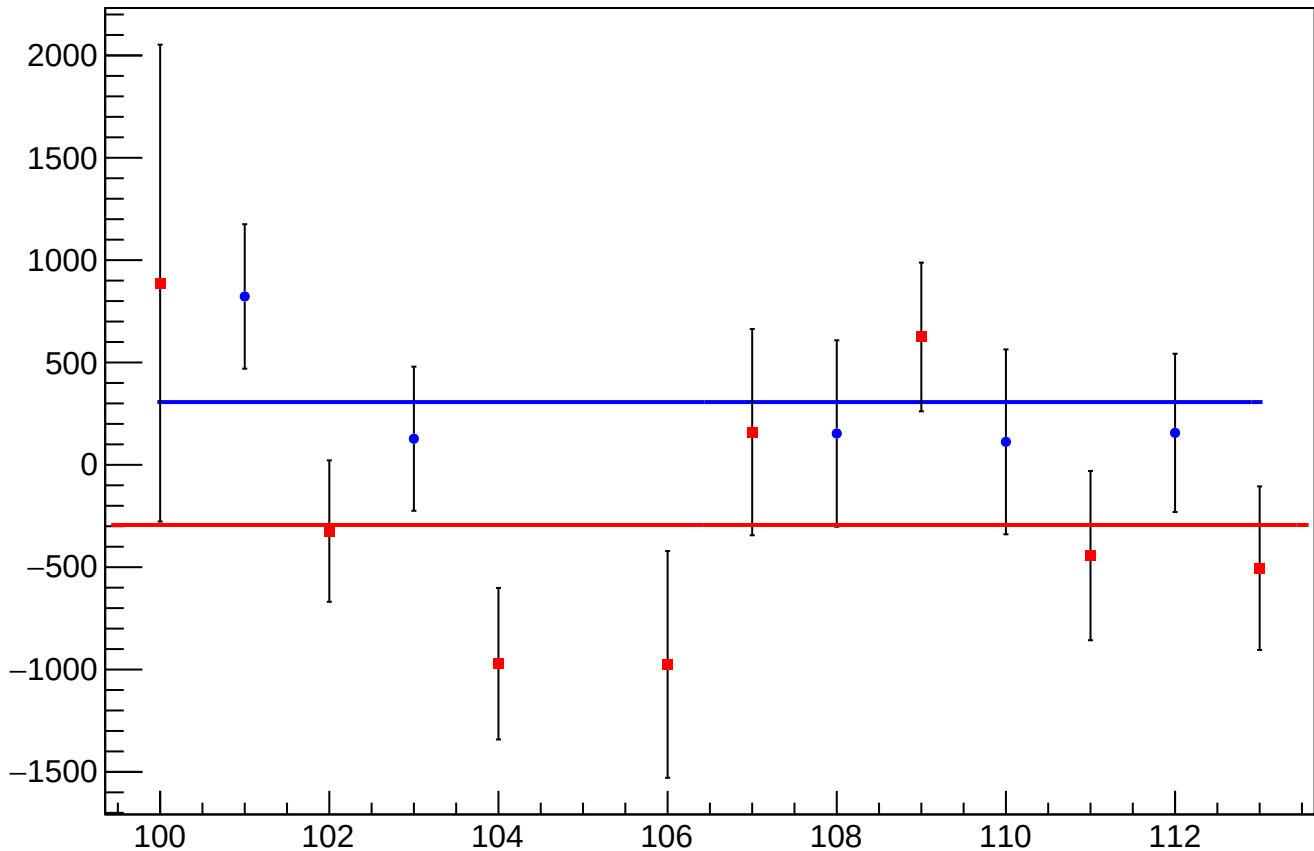
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2712.900 $\pm$ 0.801  $\chi^2$ /NDF: 109624.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 306.624 $\pm$ 175.377  $\chi^2$ /NDF: 2.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -293.764 $\pm$ 151.958  $\chi^2$ /NDF: 13.5/7

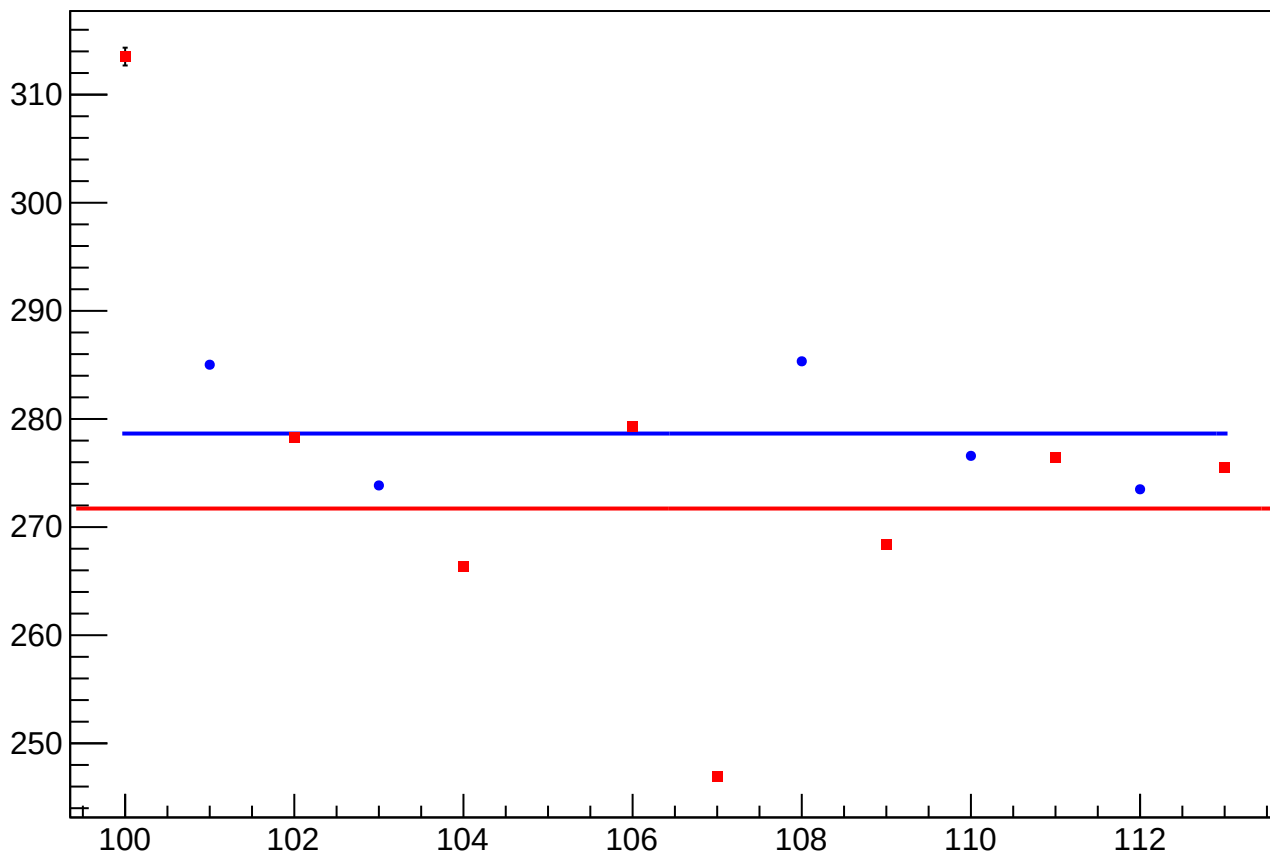
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -36.307 $\pm$ 114.844  $\chi^2$ /NDF: 23.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 278.653 $\pm$ 0.124  $\chi^2$ /NDF: 1850.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 271.717 $\pm$ 0.107  $\chi^2$ /NDF: 9565.9/7

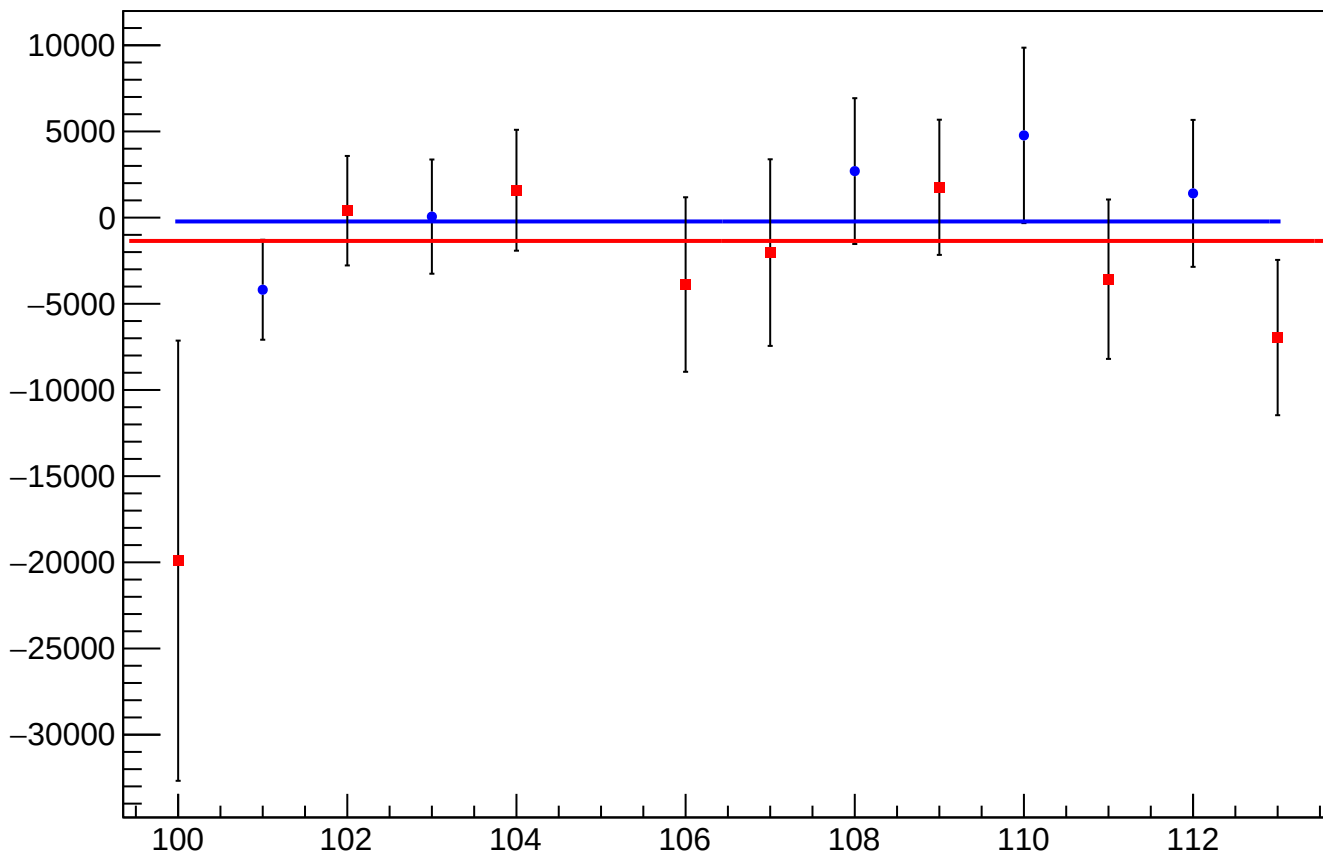
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 274.691 $\pm$ 0.081  $\chi^2$ /NDF: 13203.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -222.311+/-1667.816  $\chi^2/\text{NDF}$ : 3.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1353.056+/-1541.725  $\chi^2/\text{NDF}$ : 5.8/7

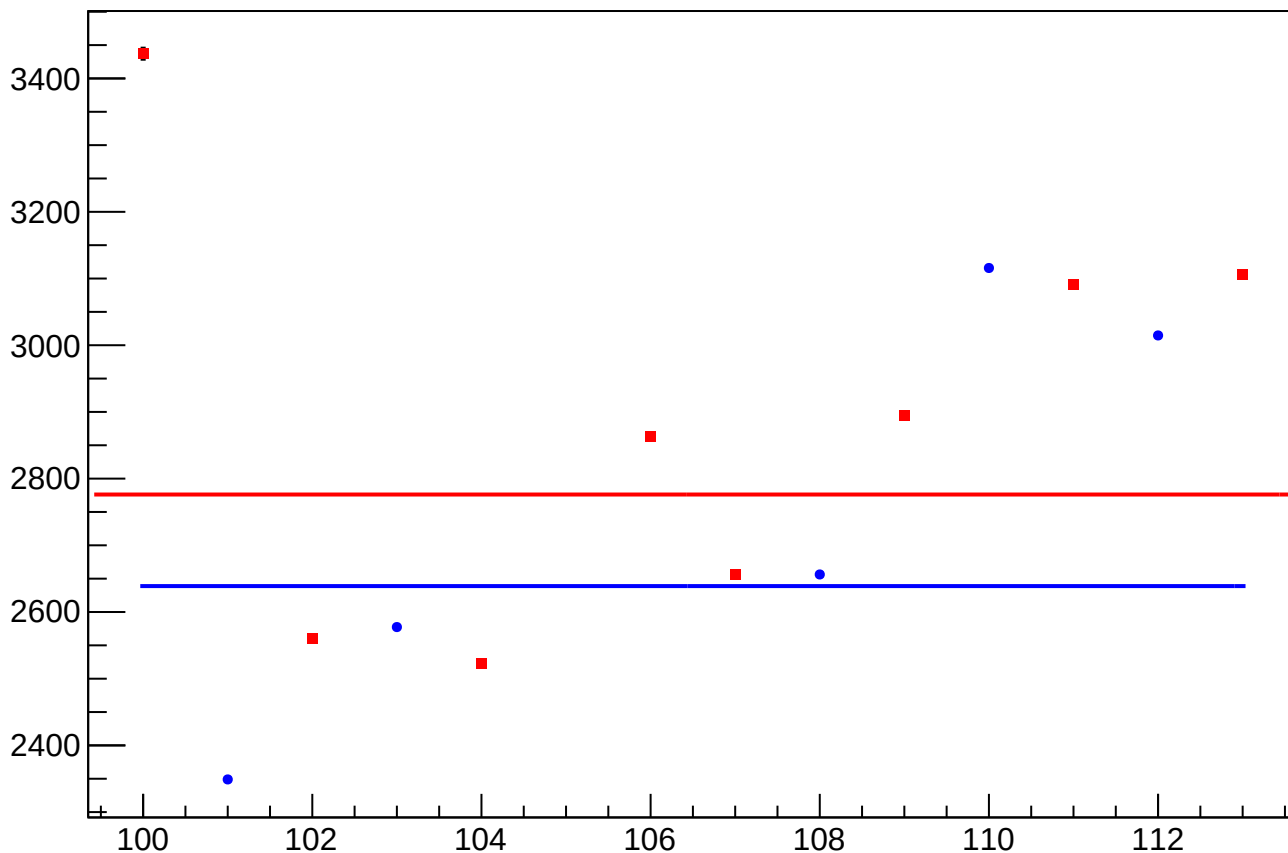
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -832.038+/-1132.120  $\chi^2/\text{NDF}$ : 9.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 2638.859+/-1.179  $\chi^2/\text{NDF}$ : 53815.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2776.156+/-1.090  $\chi^2/\text{NDF}$ : 48499.2/7

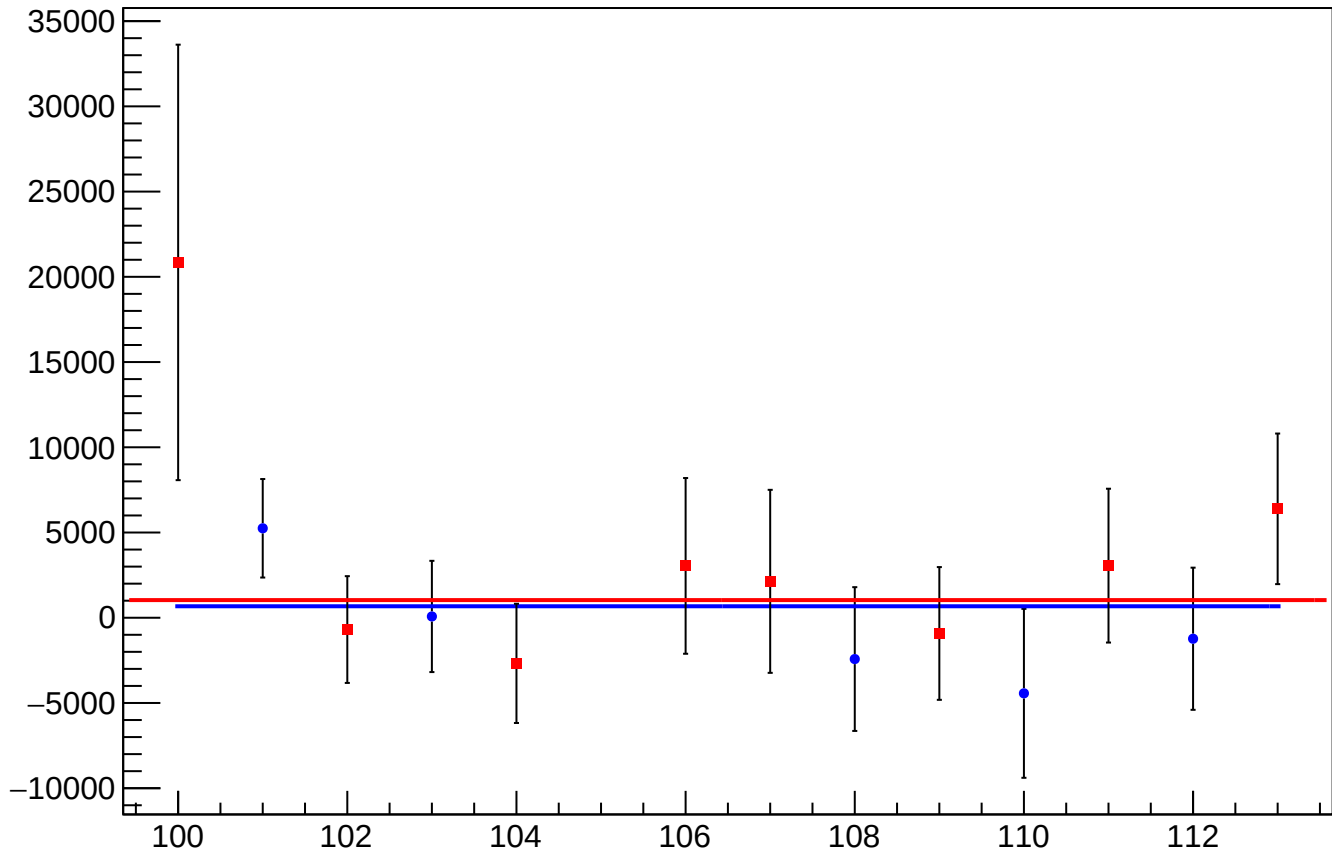
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2712.893+/-0.801  $\chi^2/\text{NDF}$ : 109622.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_mean vs Slug



Right In: 673.530+/-1648.082  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1035.519+/-1527.609  $\chi^2/\text{NDF}$ : 6.0/7

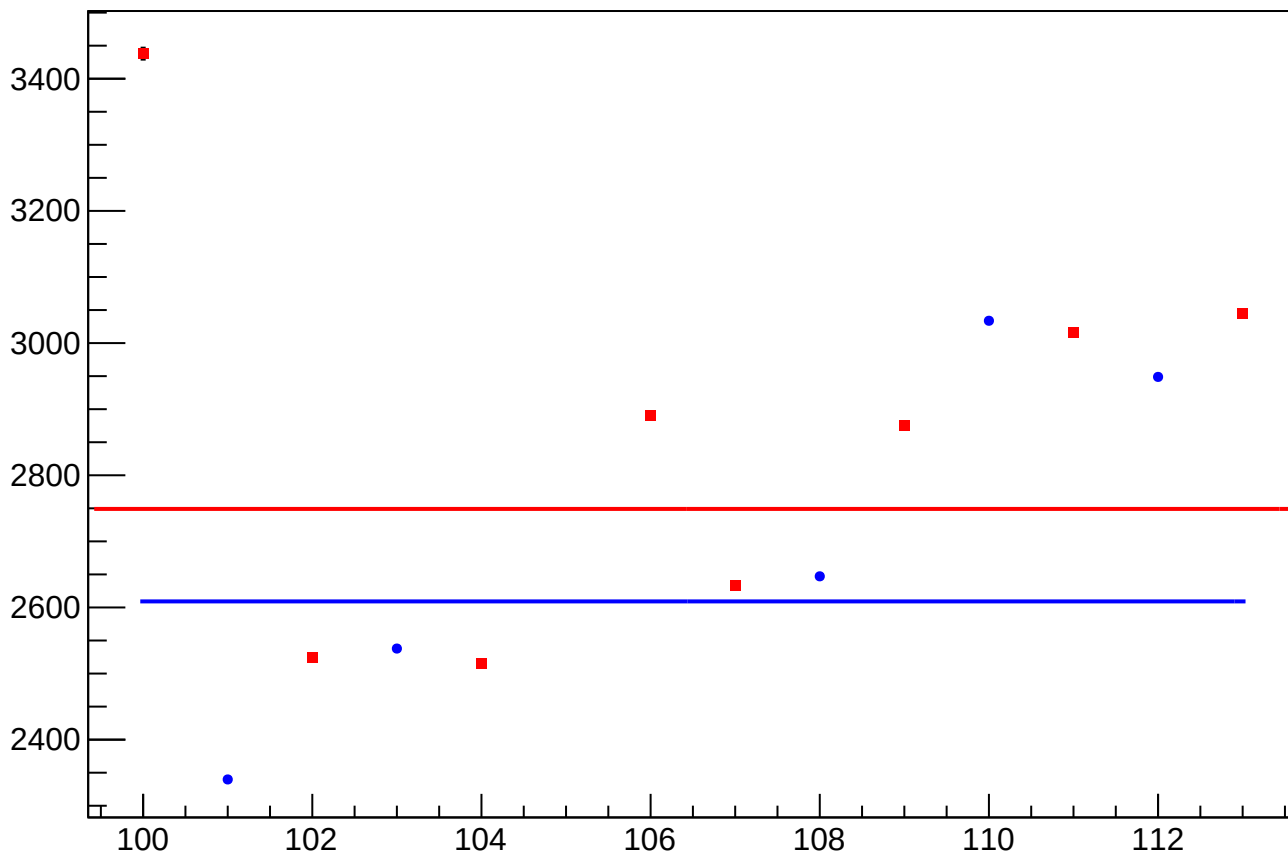
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 868.237+/-1120.355  $\chi^2/\text{NDF}$ : 10.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_rms vs Slug



Right In: 2609.174+/-1.165  $\chi^2/\text{NDF}$ : 46455.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2749.100+/-1.080  $\chi^2/\text{NDF}$ : 45658.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

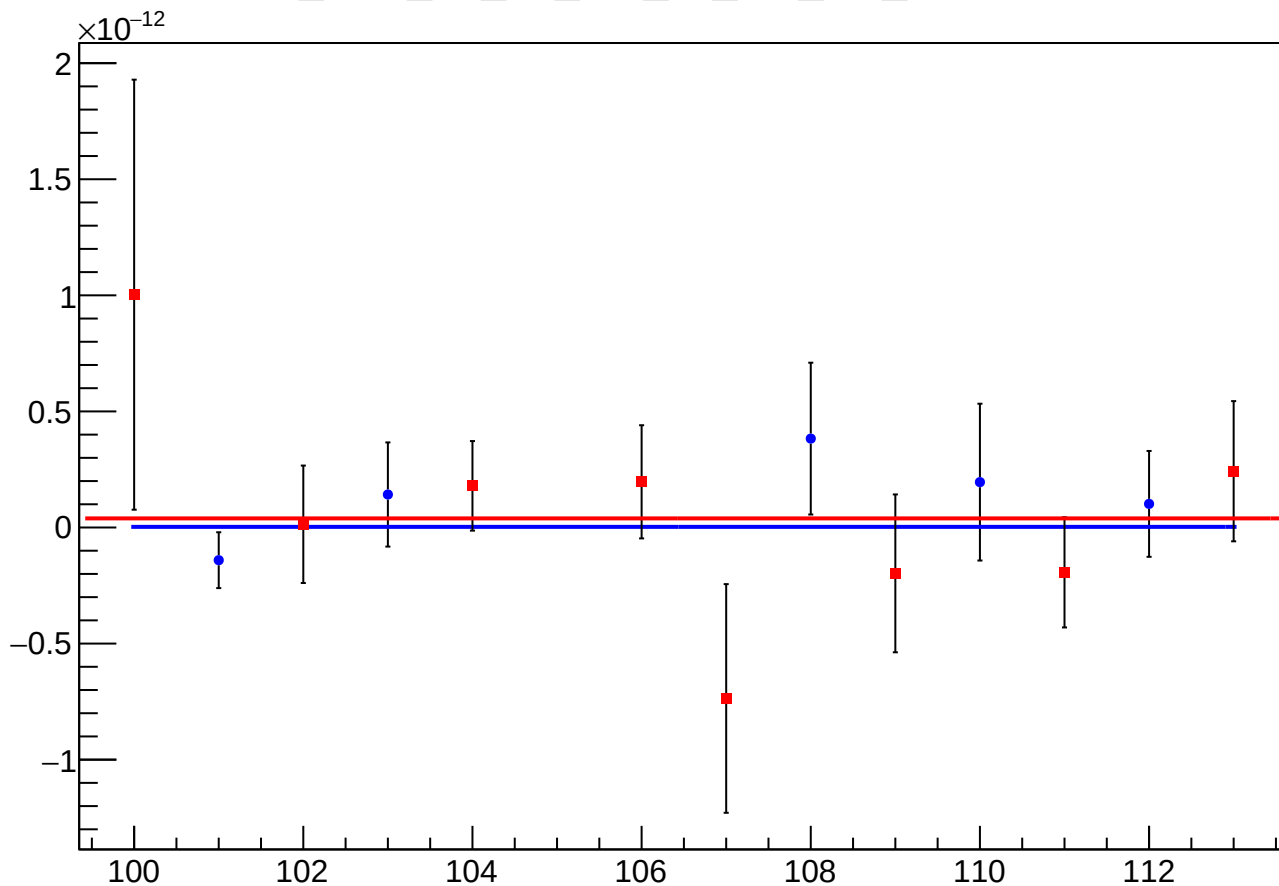
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2684.437+/-0.792  $\chi^2/\text{NDF}$ : 99867.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_26\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.4/7

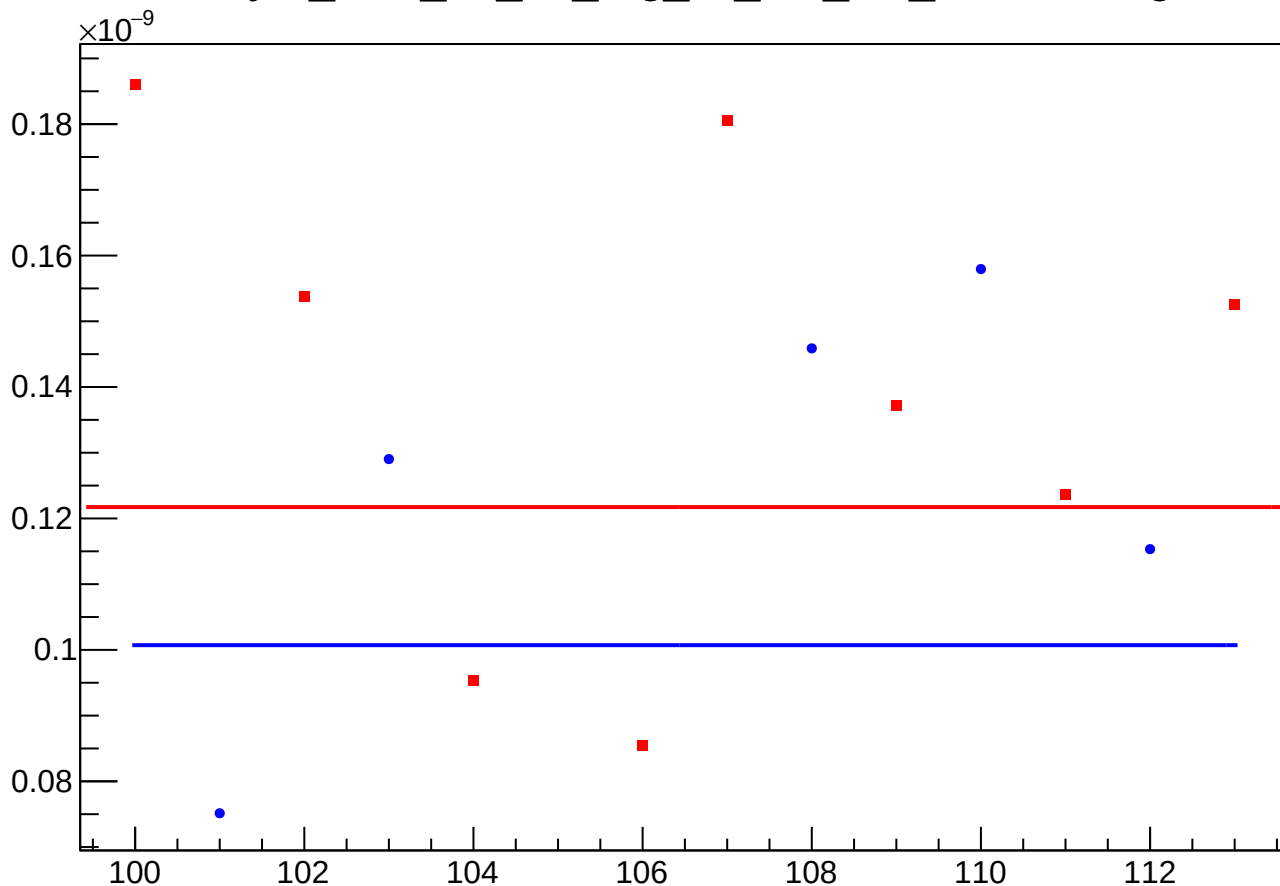
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 226107.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 177223.9/7

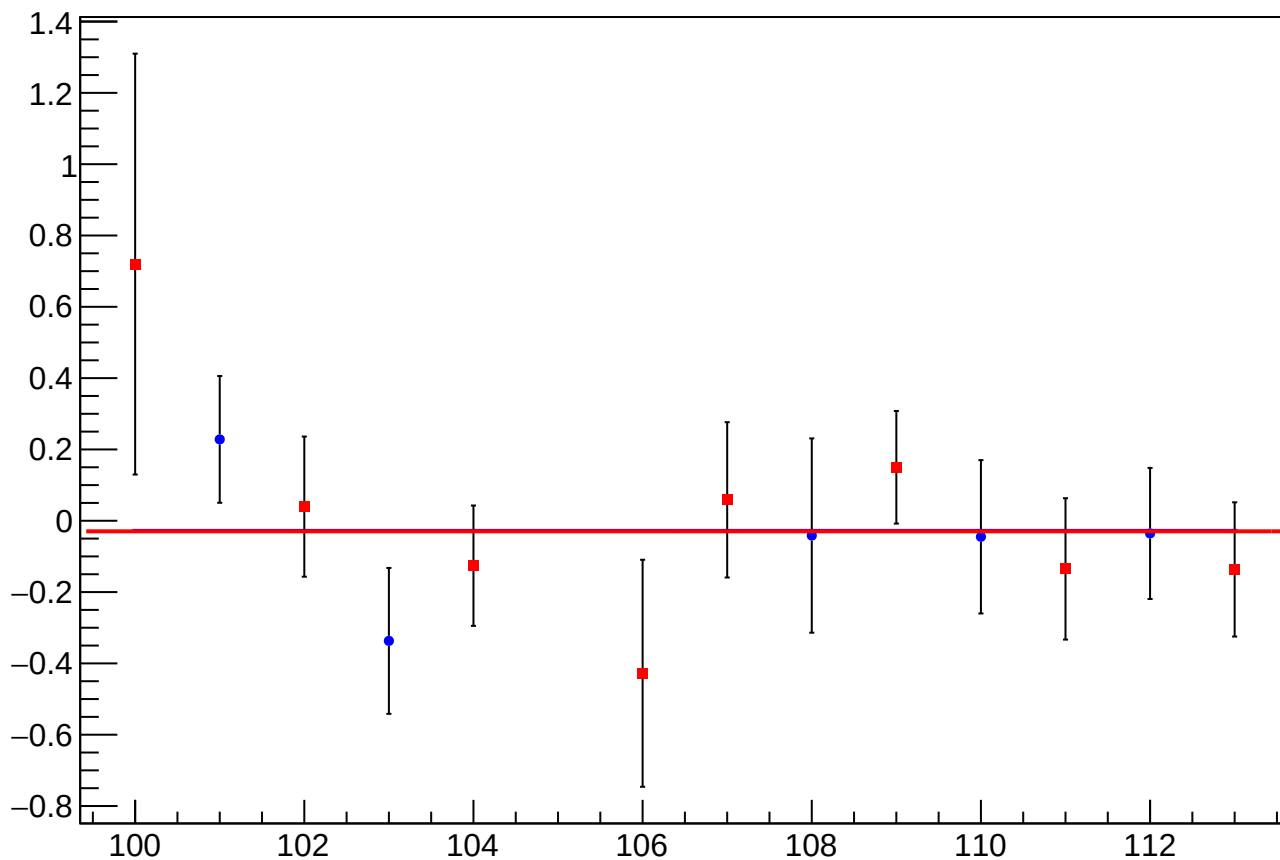
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 453192.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.028+/-0.091  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.030+/-0.073  $\chi^2/\text{NDF}$ : 5.7/7

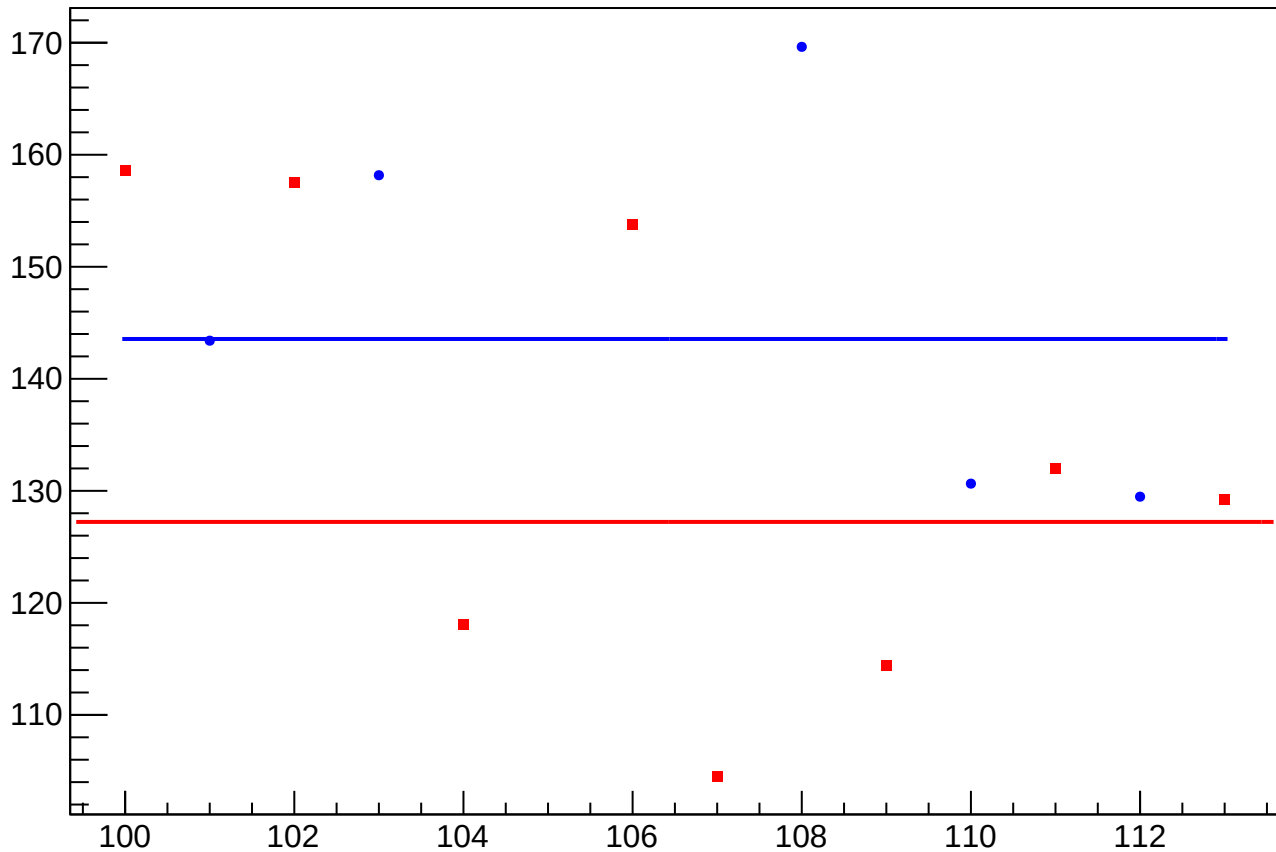
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.029+/-0.057  $\chi^2/\text{NDF}$ : 10.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 143.555 $\pm$ 0.064  $\chi^2$ /NDF: 47476.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.226 $\pm$ 0.051  $\chi^2$ /NDF: 109072.4/7

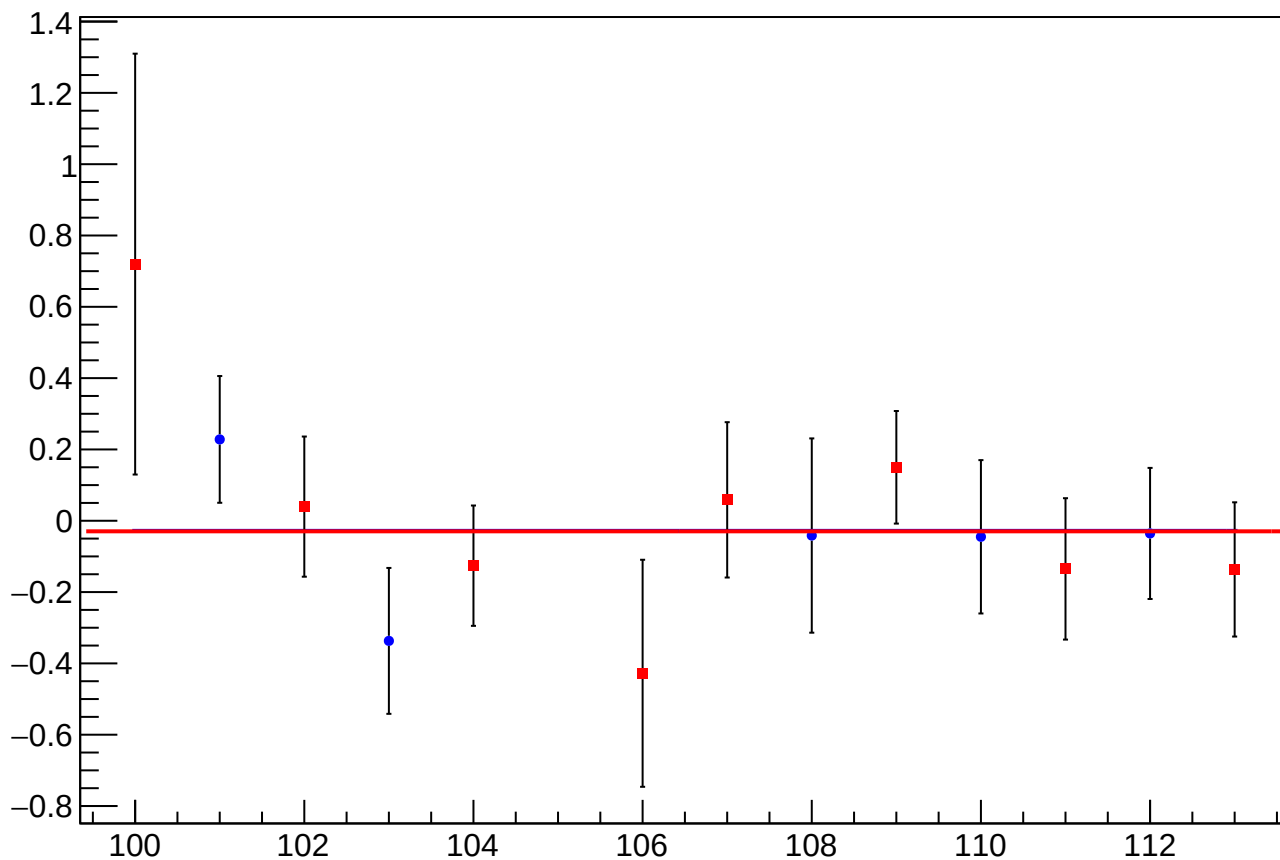
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 133.584 $\pm$ 0.040  $\chi^2$ /NDF: 195708.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.028 $\pm$ 0.091  $\chi^2$ /NDF: 4.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.030 $\pm$ 0.073  $\chi^2$ /NDF: 5.7/7

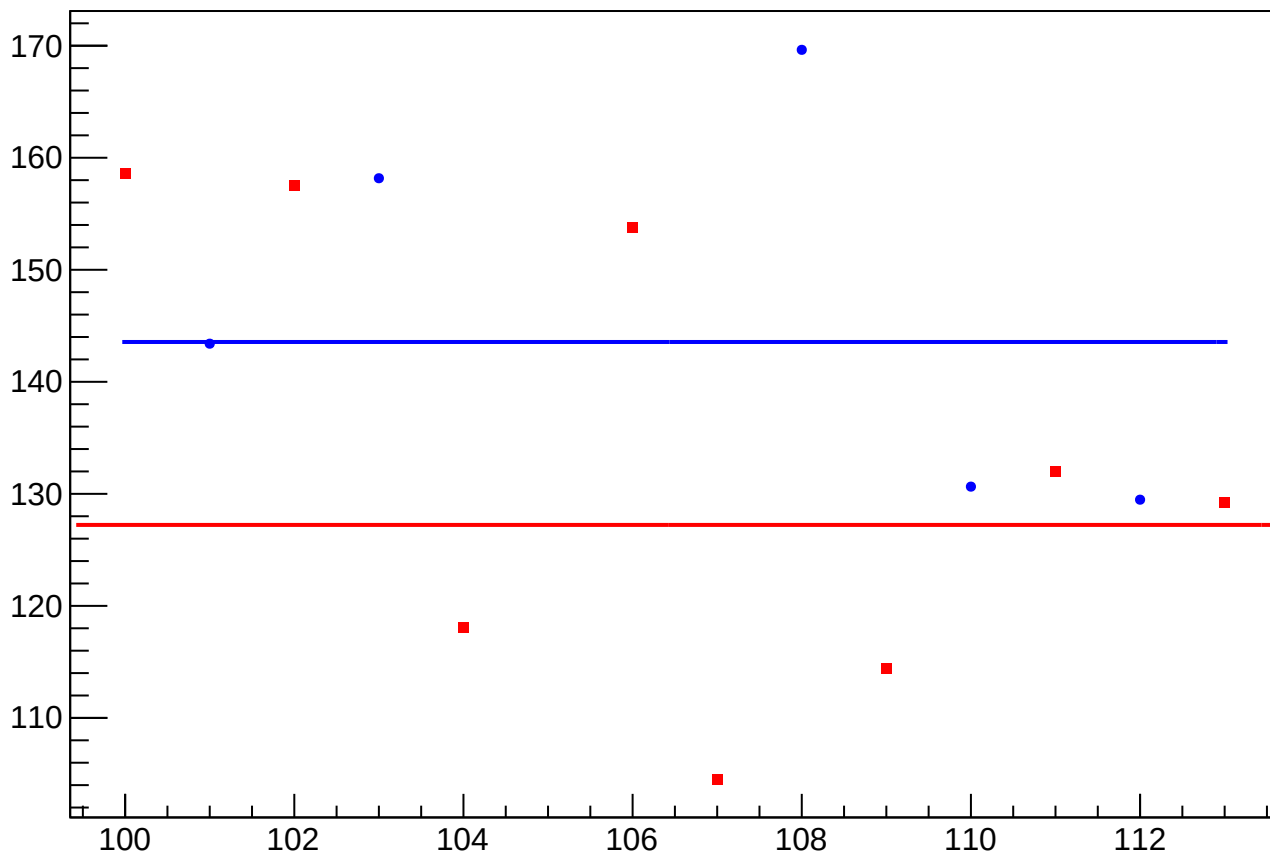
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.029 $\pm$ 0.057  $\chi^2$ /NDF: 10.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 143.555 $\pm$ 0.064  $\chi^2$ /NDF: 47476.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.226 $\pm$ 0.051  $\chi^2$ /NDF: 109072.4/7

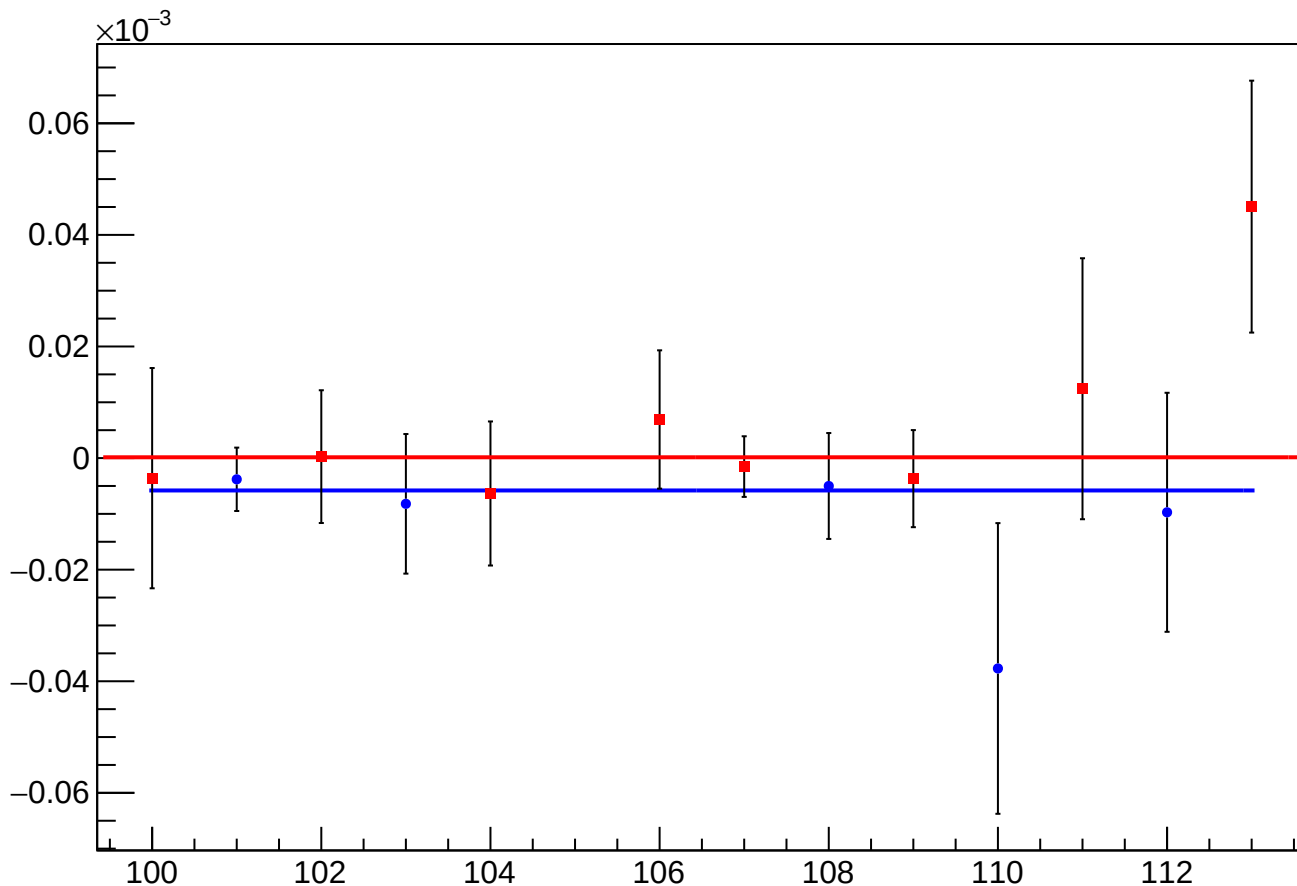
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 133.584 $\pm$ 0.040  $\chi^2$ /NDF: 195708.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.1/7

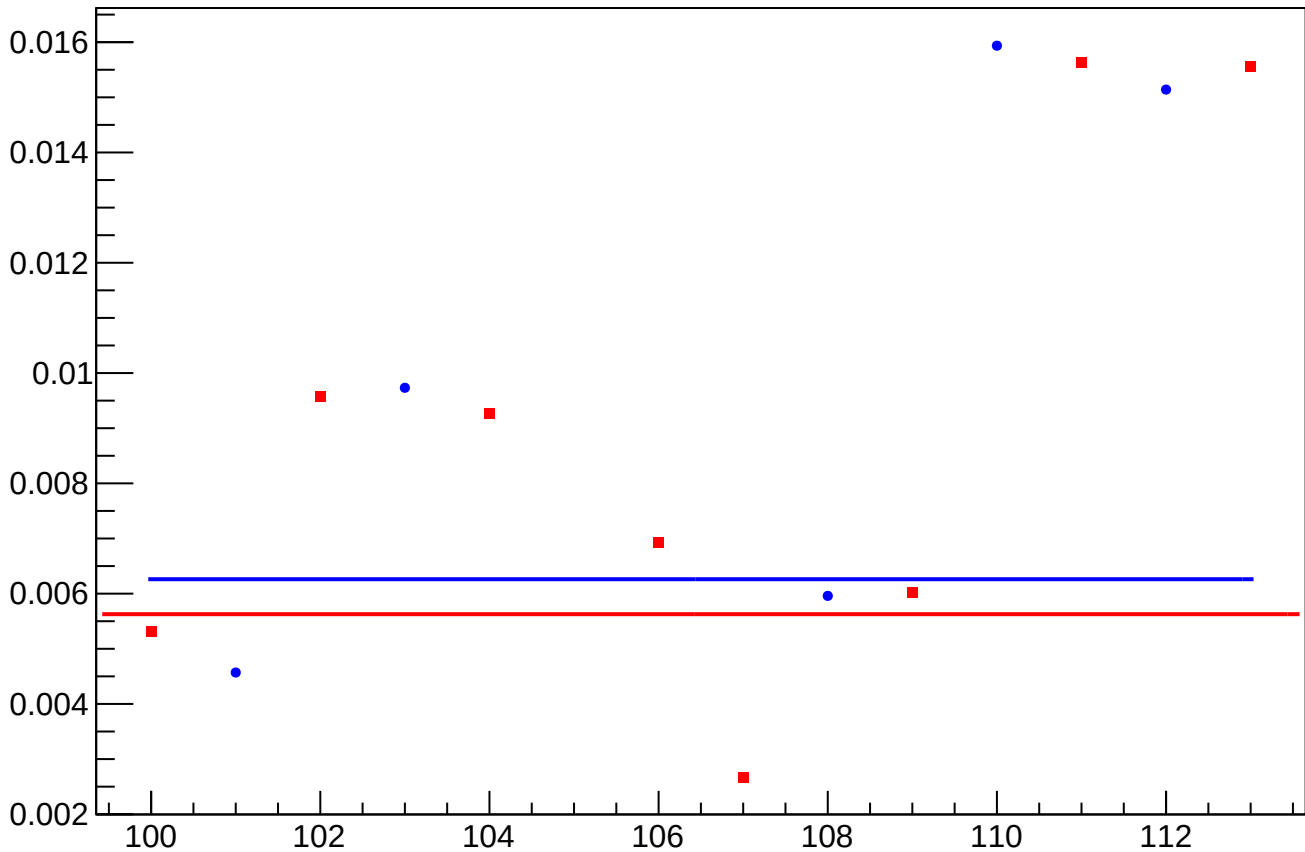
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 952950.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1753874.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

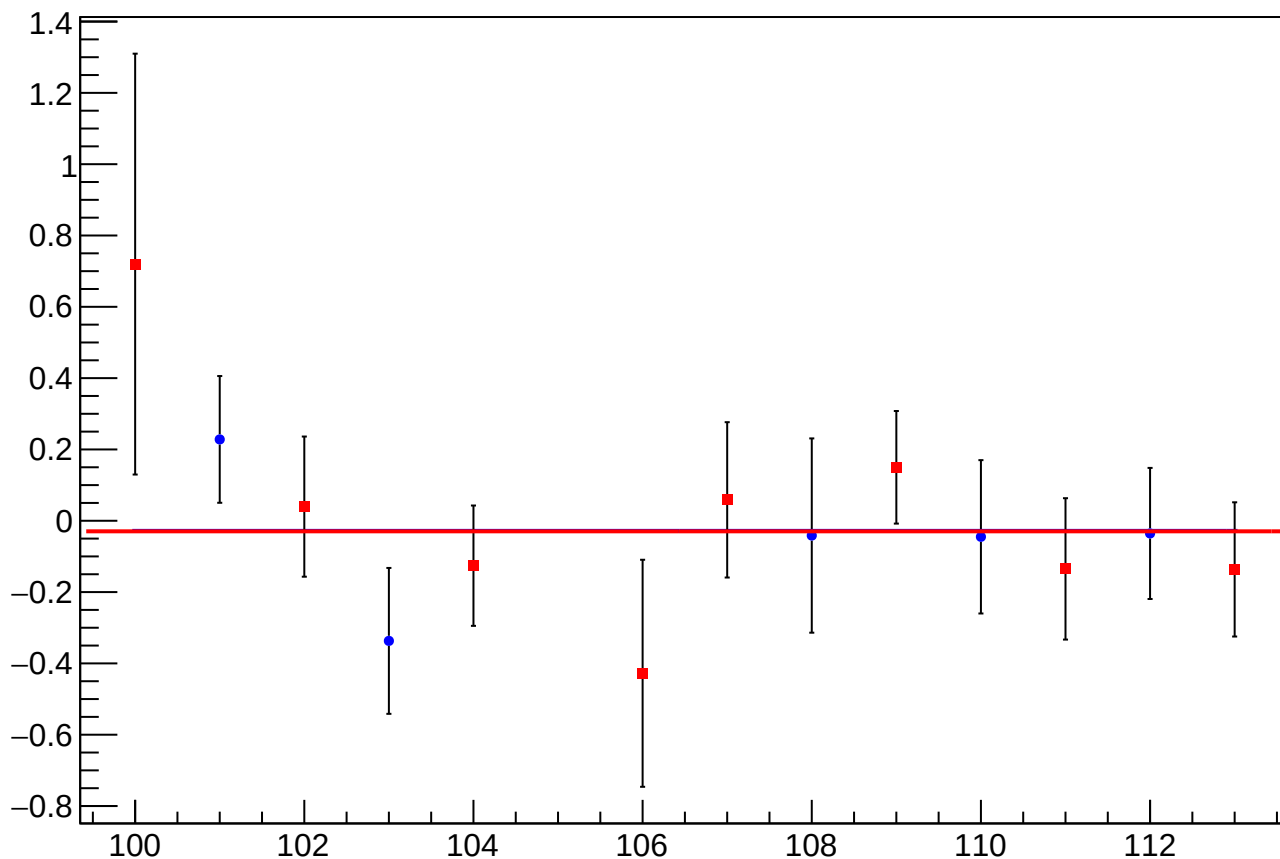
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2731276.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.028 $\pm$ 0.091  $\chi^2$ /NDF: 4.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.030 $\pm$ 0.073  $\chi^2$ /NDF: 5.7/7

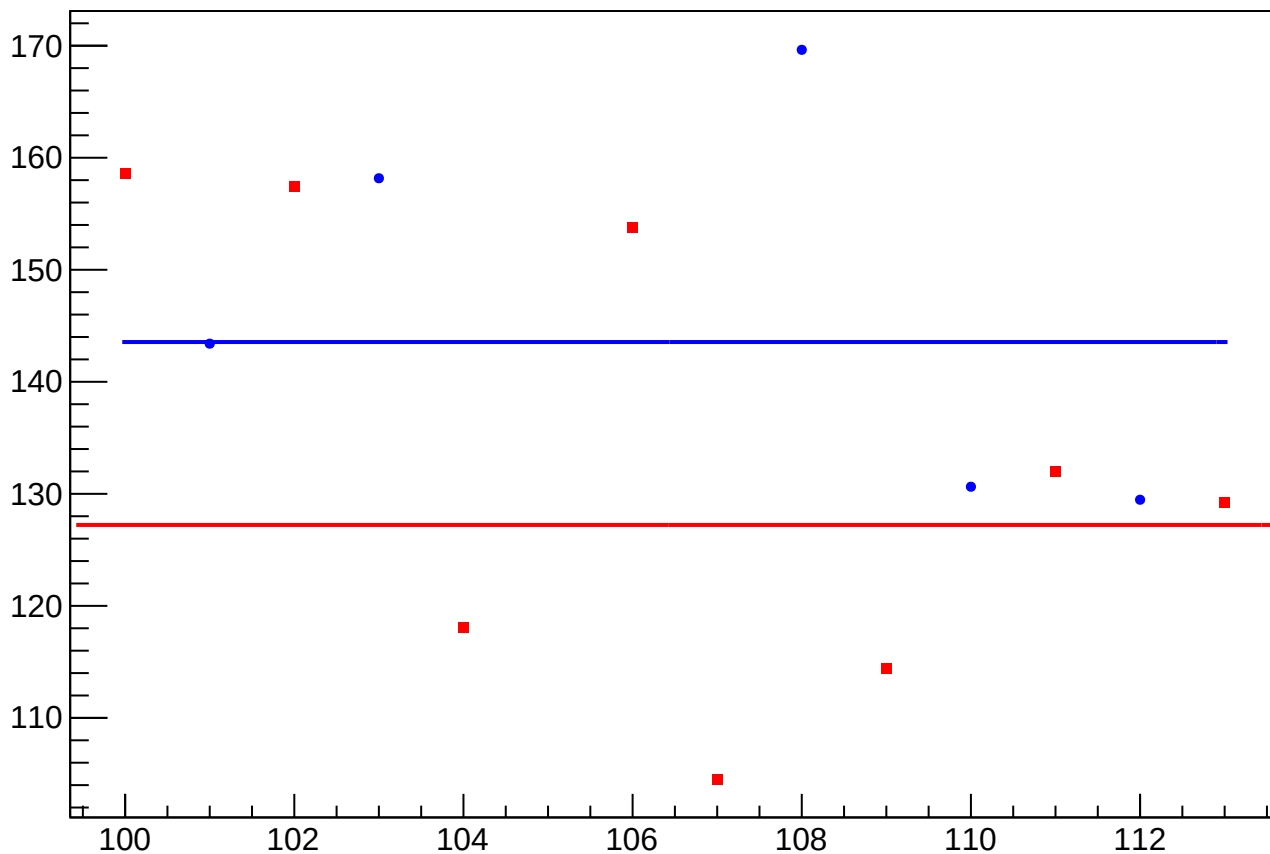
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.029 $\pm$ 0.057  $\chi^2$ /NDF: 10.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 143.551 $\pm$ 0.064  $\chi^2$ /NDF: 47496.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.223 $\pm$ 0.051  $\chi^2$ /NDF: 109071.1/7

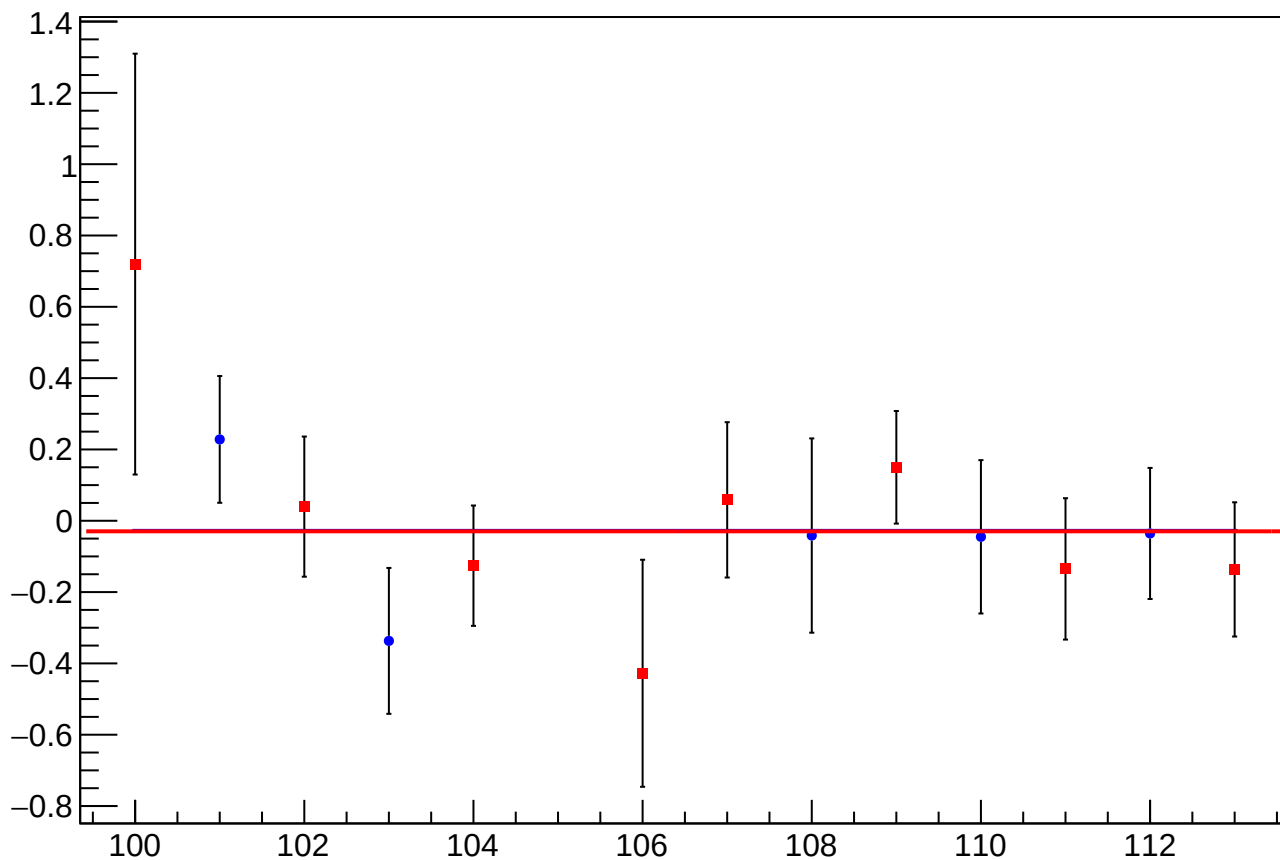
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 133.580 $\pm$ 0.040  $\chi^2$ /NDF: 195723.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.028 $\pm$ 0.091  $\chi^2$ /NDF: 4.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.030 $\pm$ 0.073  $\chi^2$ /NDF: 5.7/7

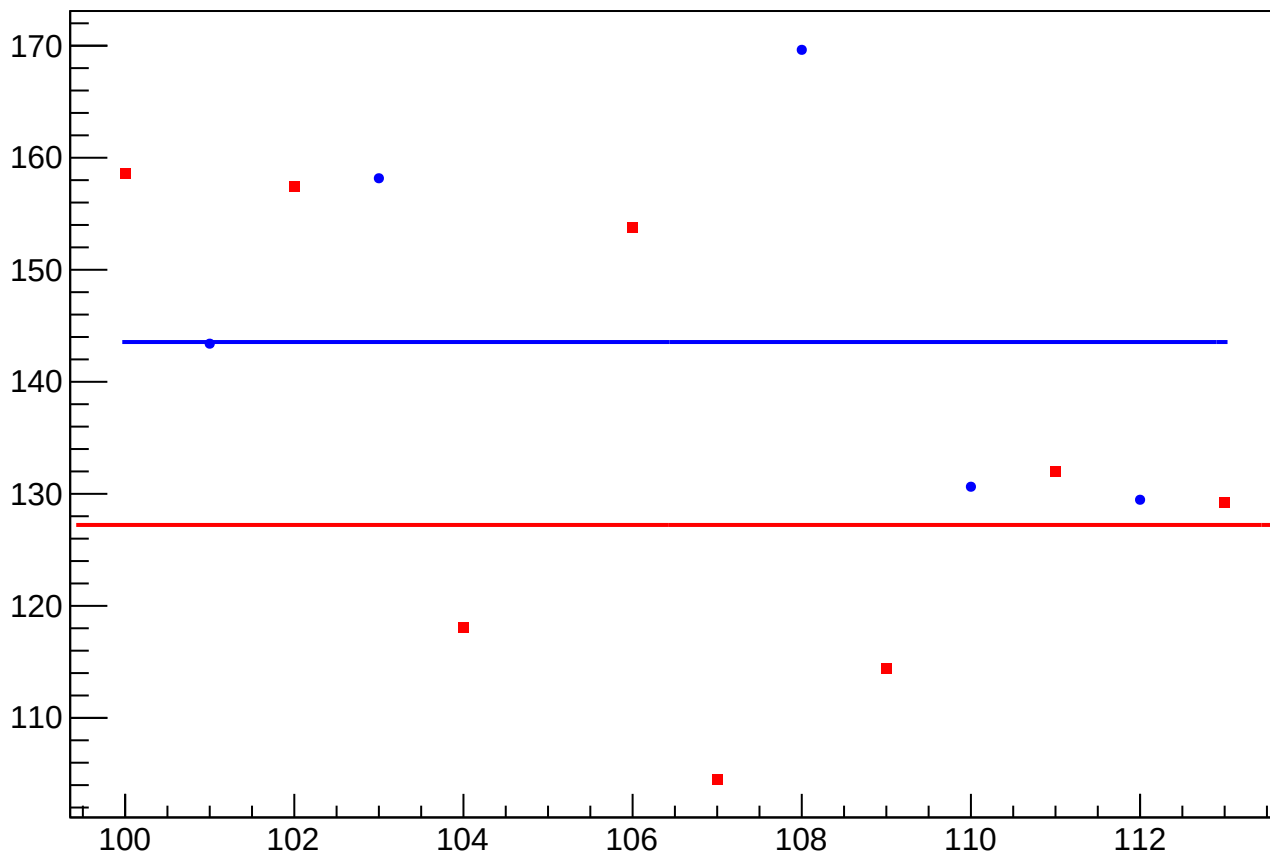
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.029 $\pm$ 0.057  $\chi^2$ /NDF: 10.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 143.551 $\pm$ 0.064  $\chi^2$ /NDF: 47496.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.223 $\pm$ 0.051  $\chi^2$ /NDF: 109071.1/7

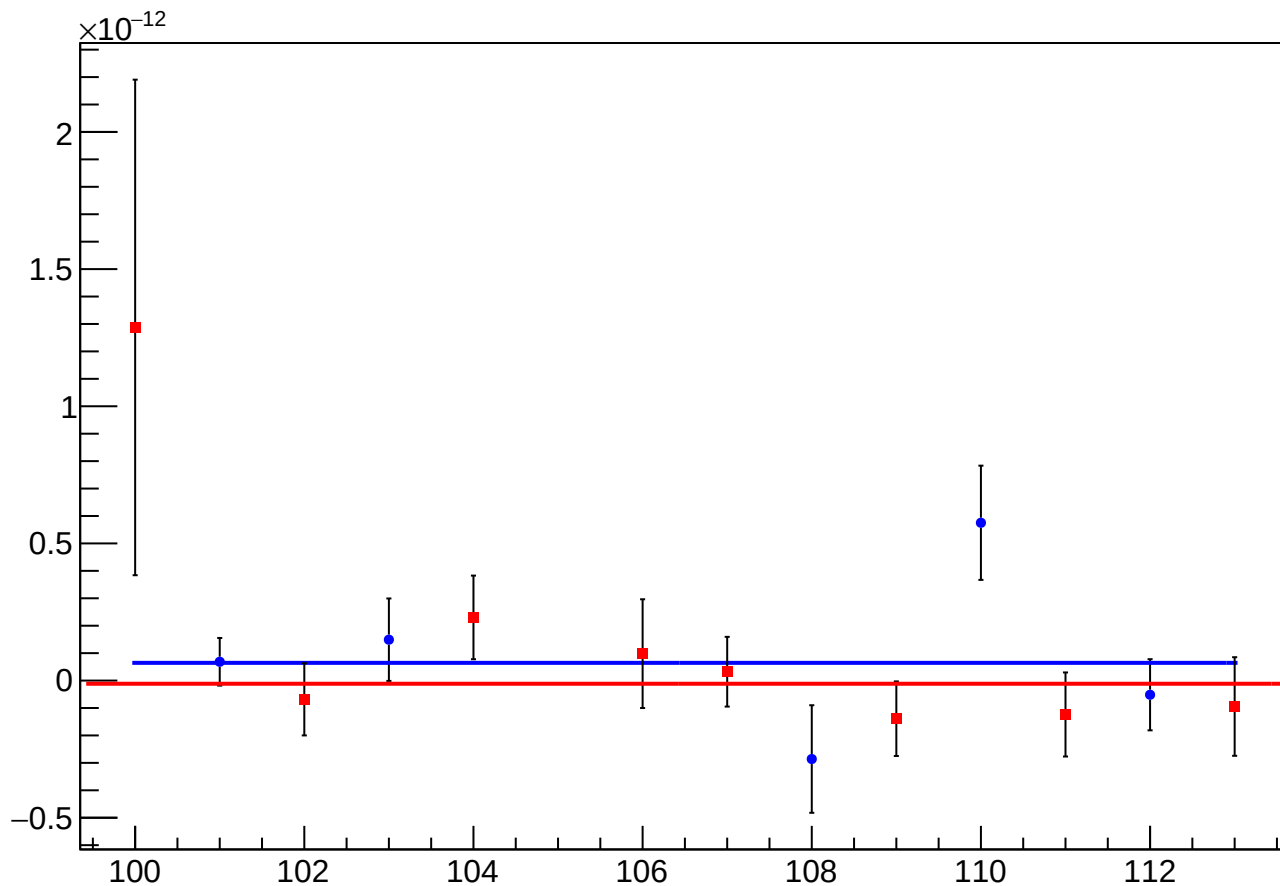
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 133.580 $\pm$ 0.040  $\chi^2$ /NDF: 195723.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 10.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 6.8/7

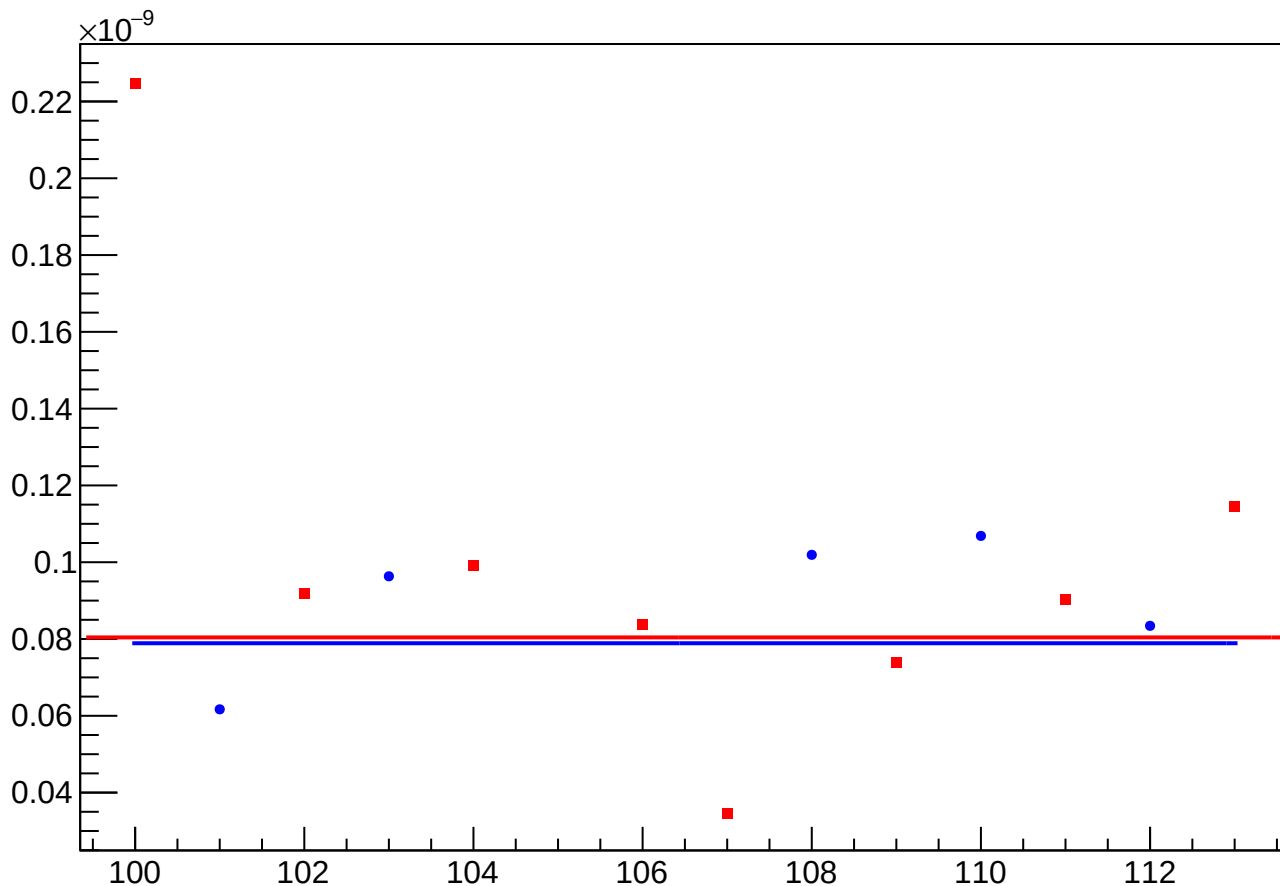
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 18.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 171686.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 441505.2/7

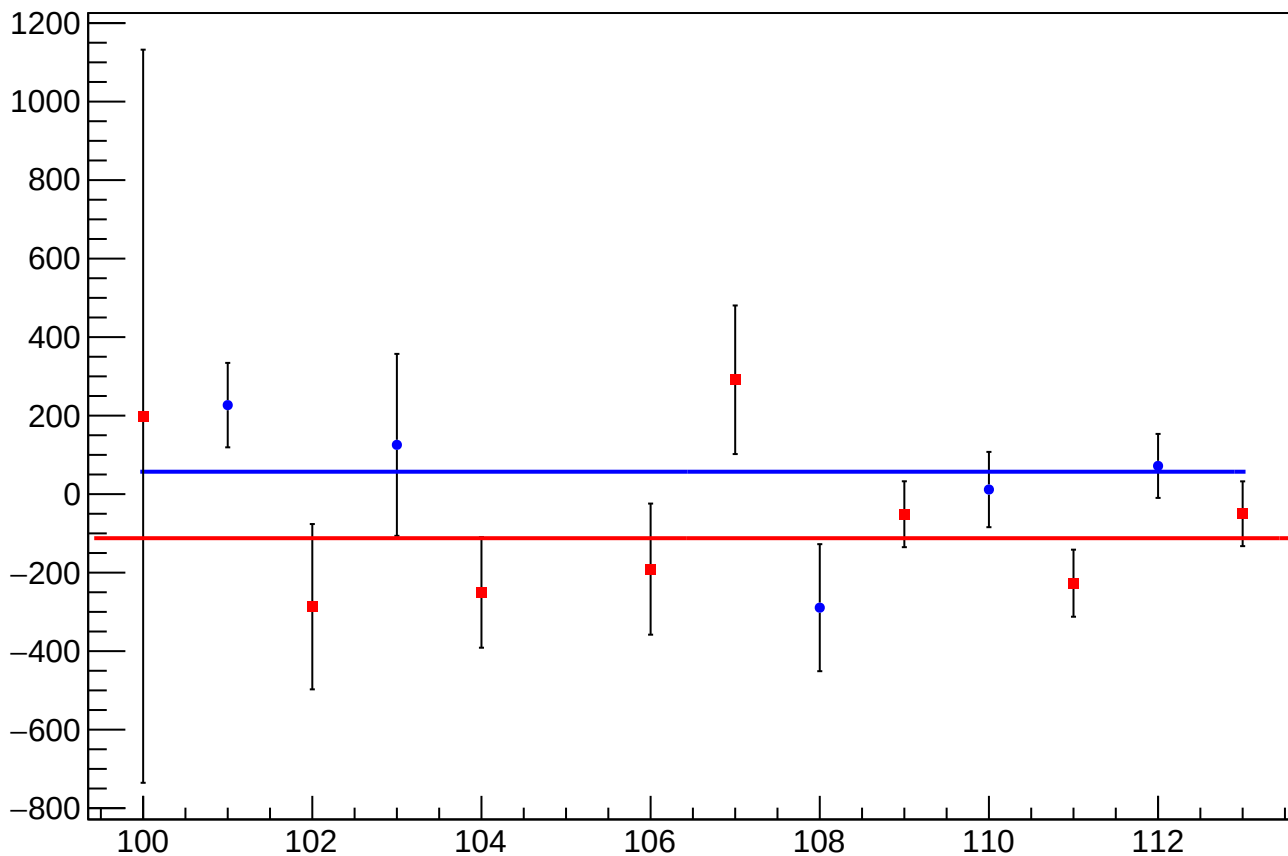
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 613882.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 57.101+/-49.848  $\chi^2/\text{NDF}$ : 7.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -112.251+/-42.120  $\chi^2/\text{NDF}$ : 9.4/7

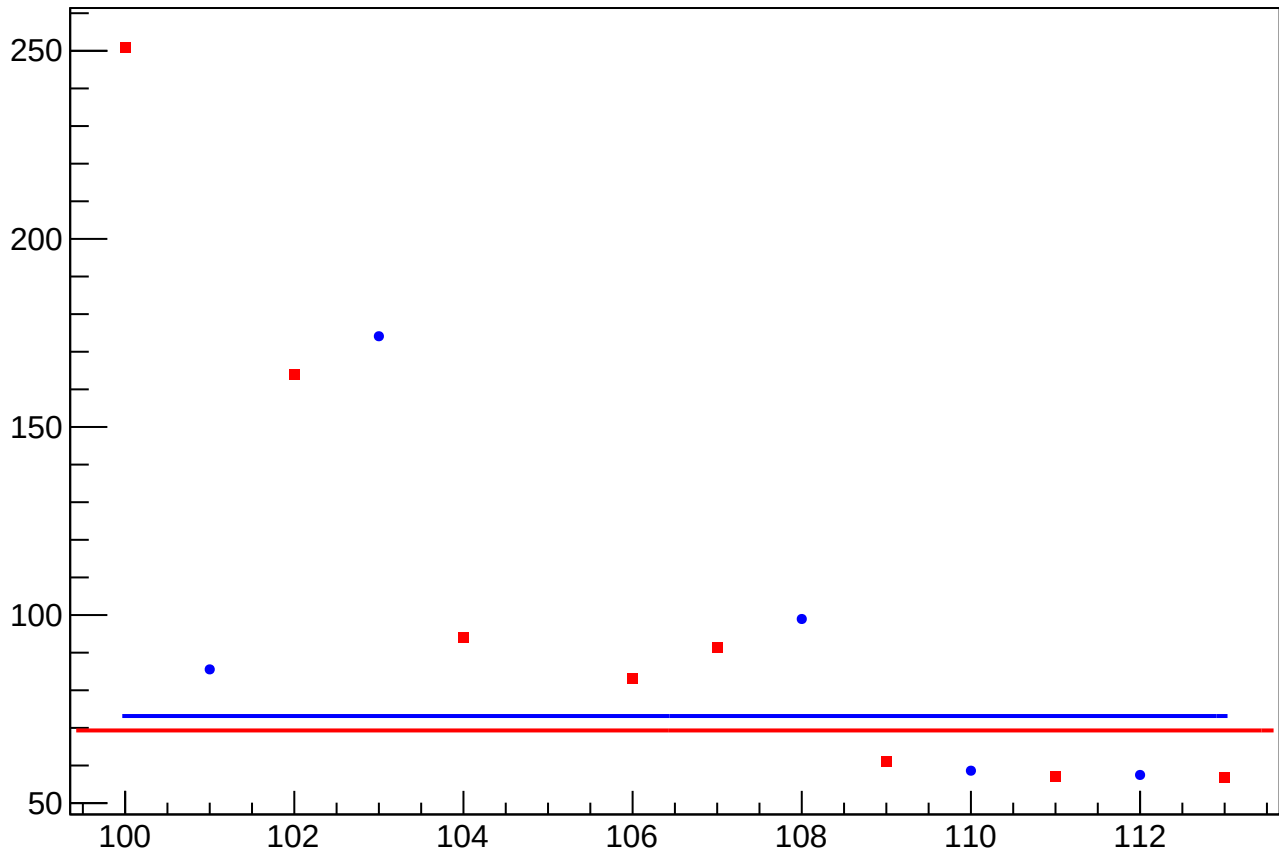
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -41.705+/-32.173  $\chi^2/\text{NDF}$ : 23.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 73.155+/-0.035  $\chi^2/\text{NDF}$ : 576843.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.321+/-0.030  $\chi^2/\text{NDF}$ : 689336.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

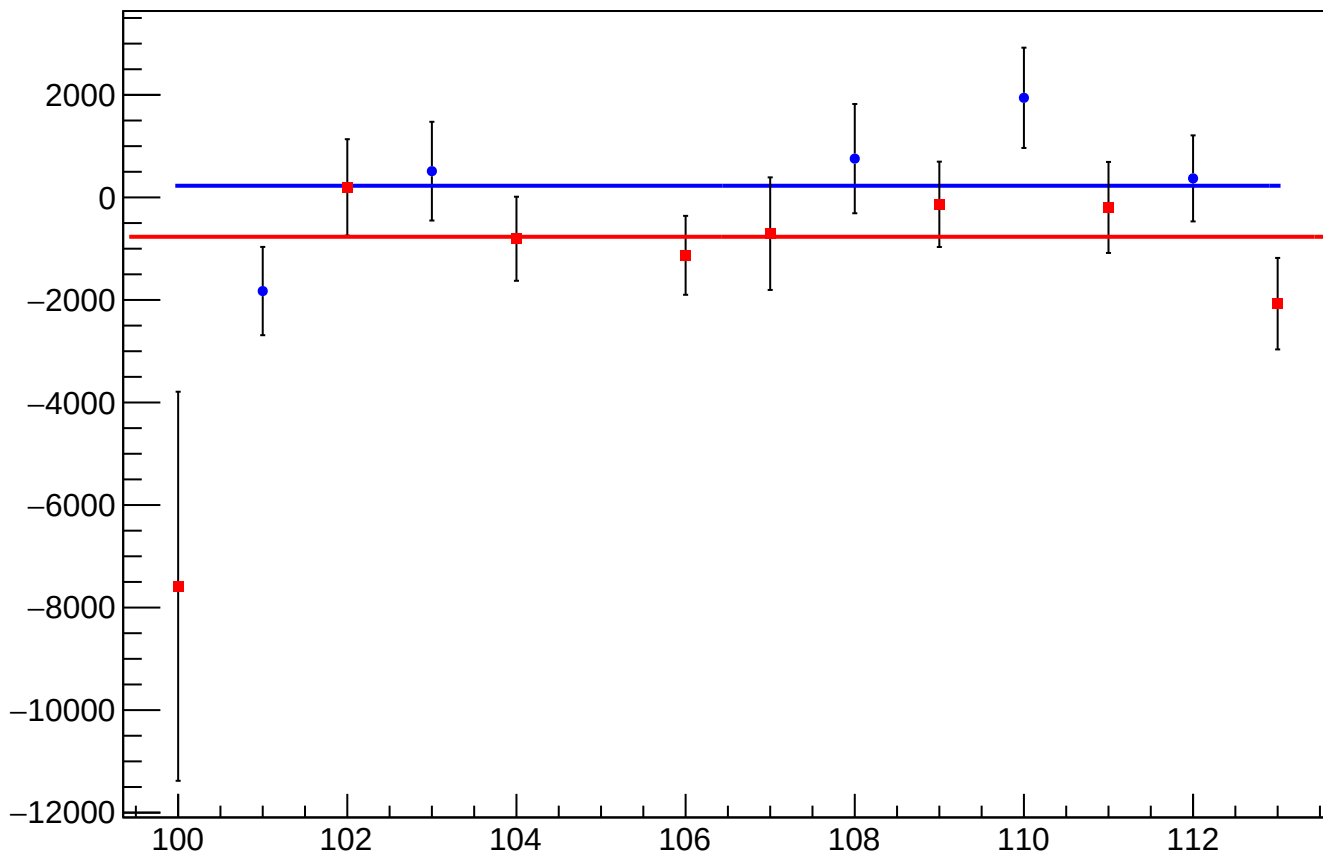
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.918+/-0.023  $\chi^2/\text{NDF}$ : 1273084.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_37\_dd\_reg\_correction\_mean vs Slug



Right In: 227.504 $\pm$ 416.187  $\chi^2$ /NDF: 9.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -767.690 $\pm$ 330.176  $\chi^2$ /NDF: 7.6/7

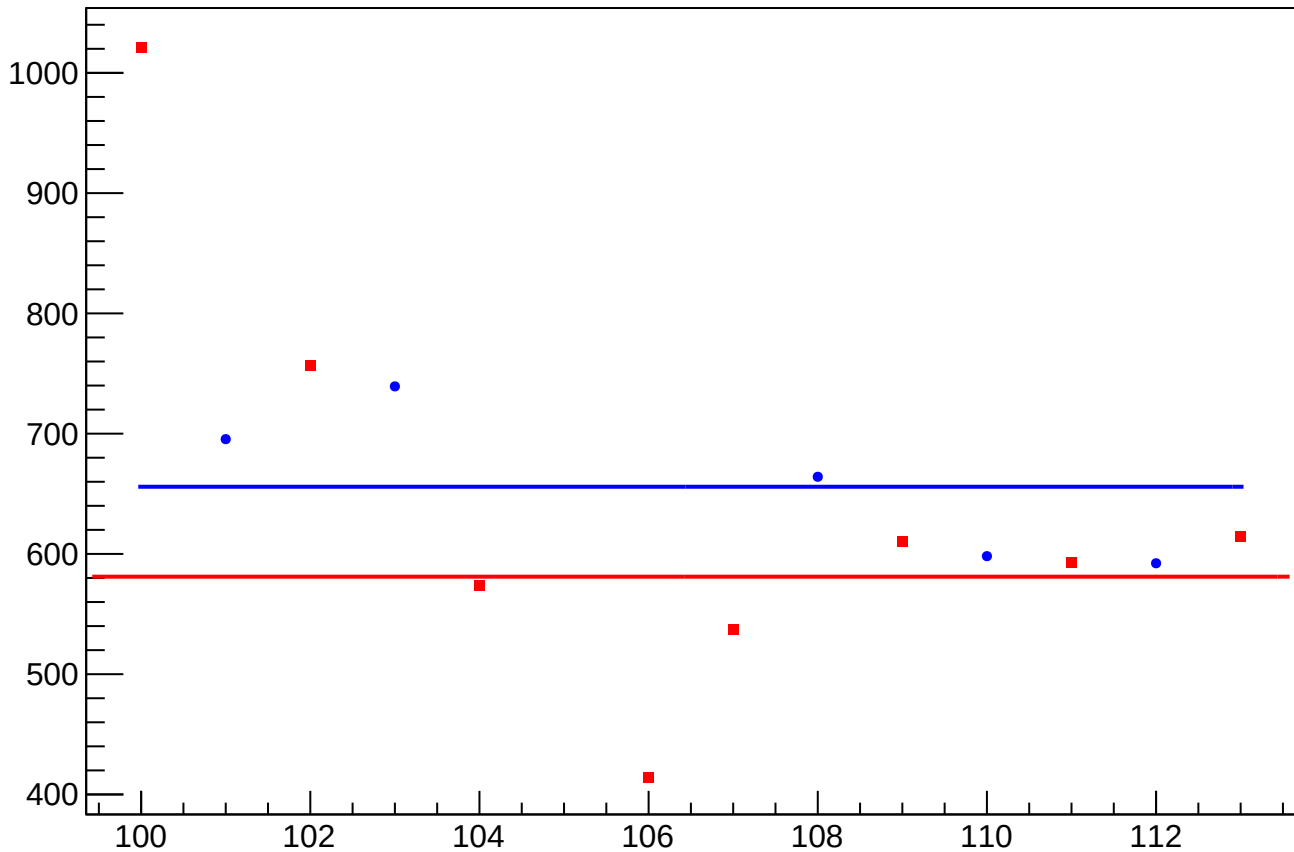
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -383.276 $\pm$ 258.663  $\chi^2$ /NDF: 20.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_reg\_correction\_rms vs Slug



Right In: 655.858 $\pm$ 0.294  $\chi^2$ /NDF: 37830.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 581.087 $\pm$ 0.233  $\chi^2$ /NDF: 199459.7/7

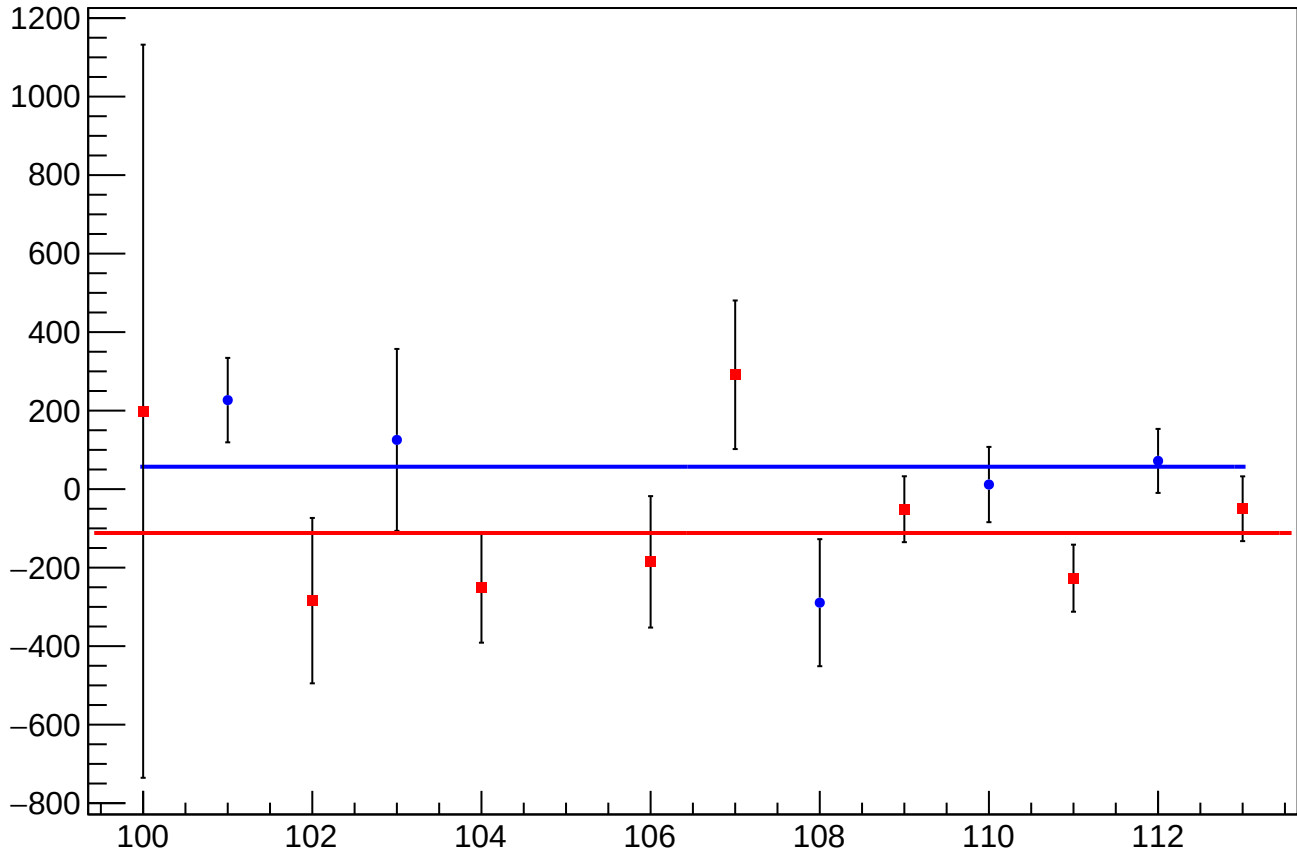
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 609.969 $\pm$ 0.183  $\chi^2$ /NDF: 276908.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 57.087+/-49.848  $\chi^2/\text{NDF}$ : 7.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -111.735+/-42.128  $\chi^2/\text{NDF}$ : 9.4/7

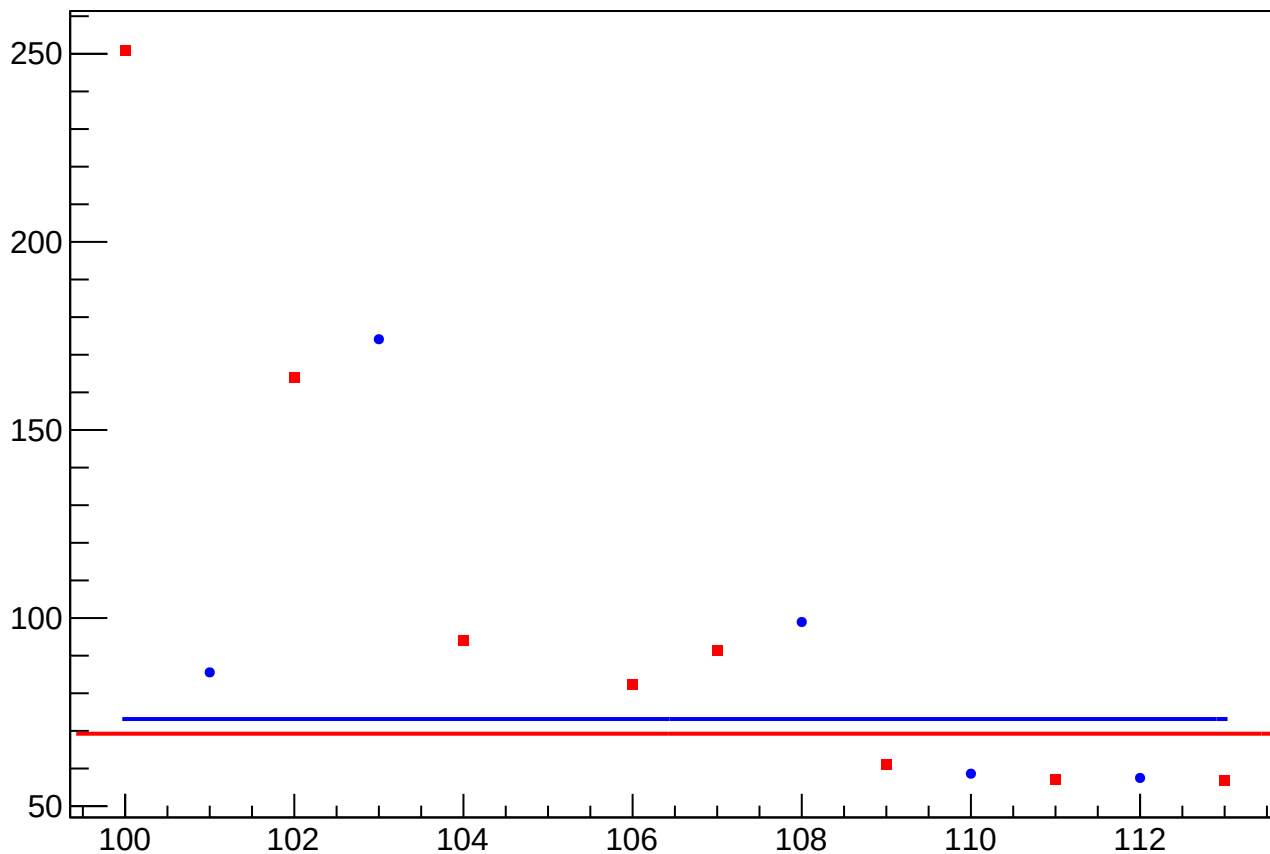
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -41.395+/-32.176  $\chi^2/\text{NDF}$ : 23.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 73.155+/-0.035  $\chi^2/\text{NDF}$ : 576845.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.251+/-0.030  $\chi^2/\text{NDF}$ : 687482.8/7

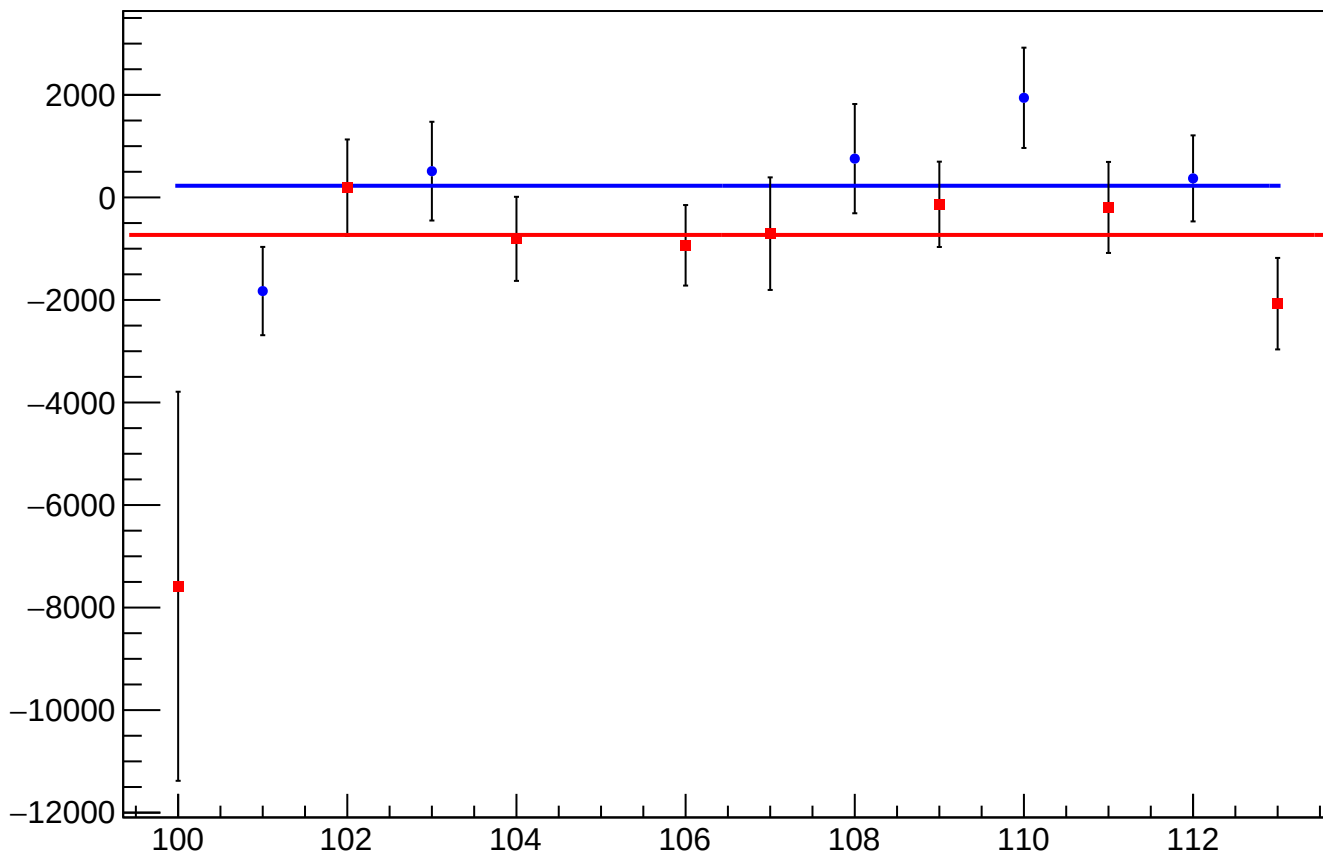
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.878+/-0.023  $\chi^2/\text{NDF}$ : 1271485.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_cor\_correction\_mean vs Slug



Right In: 227.527+/-416.196  $\chi^2$ /NDF: 9.1/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -731.556+/-331.412  $\chi^2$ /NDF: 7.4/7

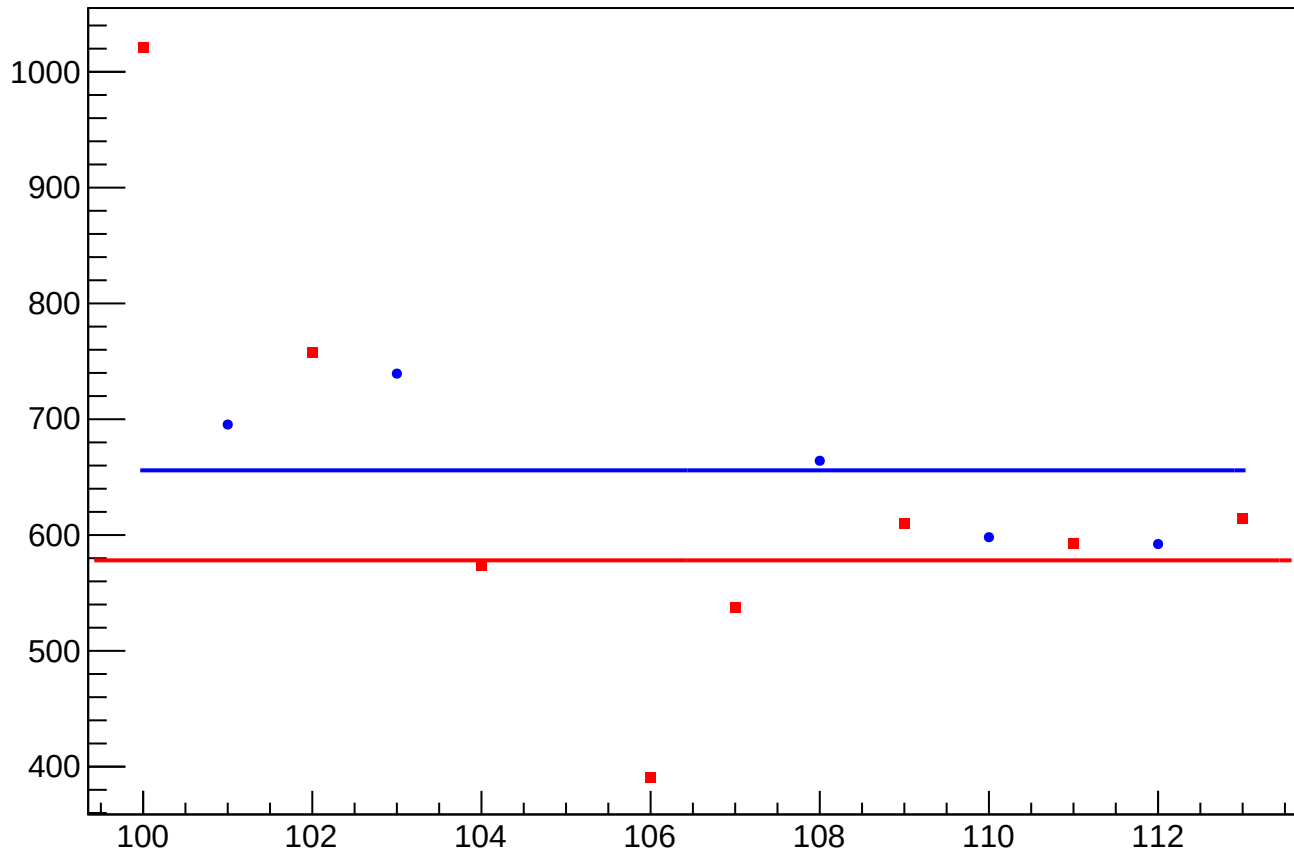
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -359.400+/-259.258  $\chi^2$ /NDF: 19.8/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_cor\_correction\_rms vs Slug



Right In: 655.869+/-0.294  $\chi^2/\text{NDF}$ : 37855.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 578.170+/-0.234  $\chi^2/\text{NDF}$ : 223184.2/7

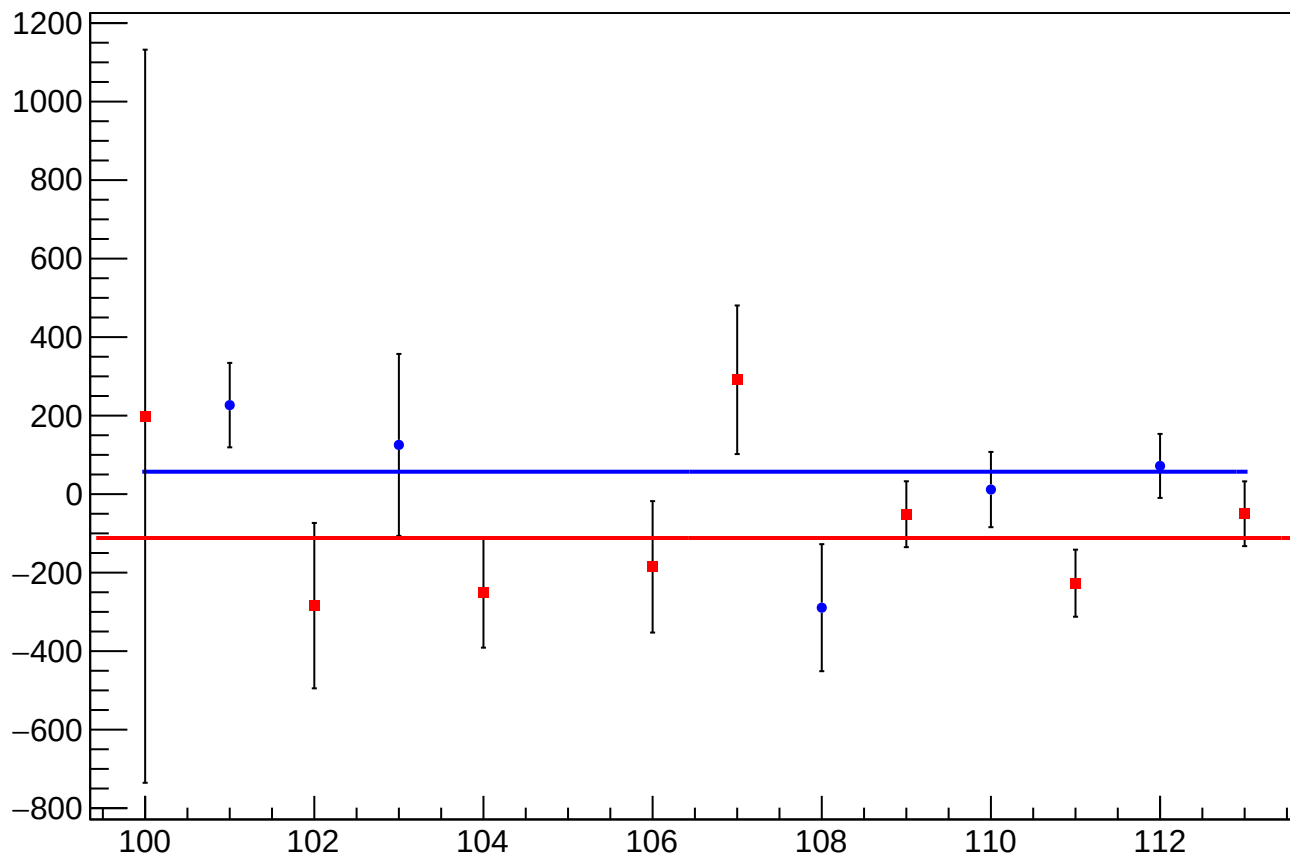
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 608.320+/-0.183  $\chi^2/\text{NDF}$ : 303697.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 57.087+/-49.848  $\chi^2/\text{NDF}$ : 7.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -111.735+/-42.128  $\chi^2/\text{NDF}$ : 9.4/7

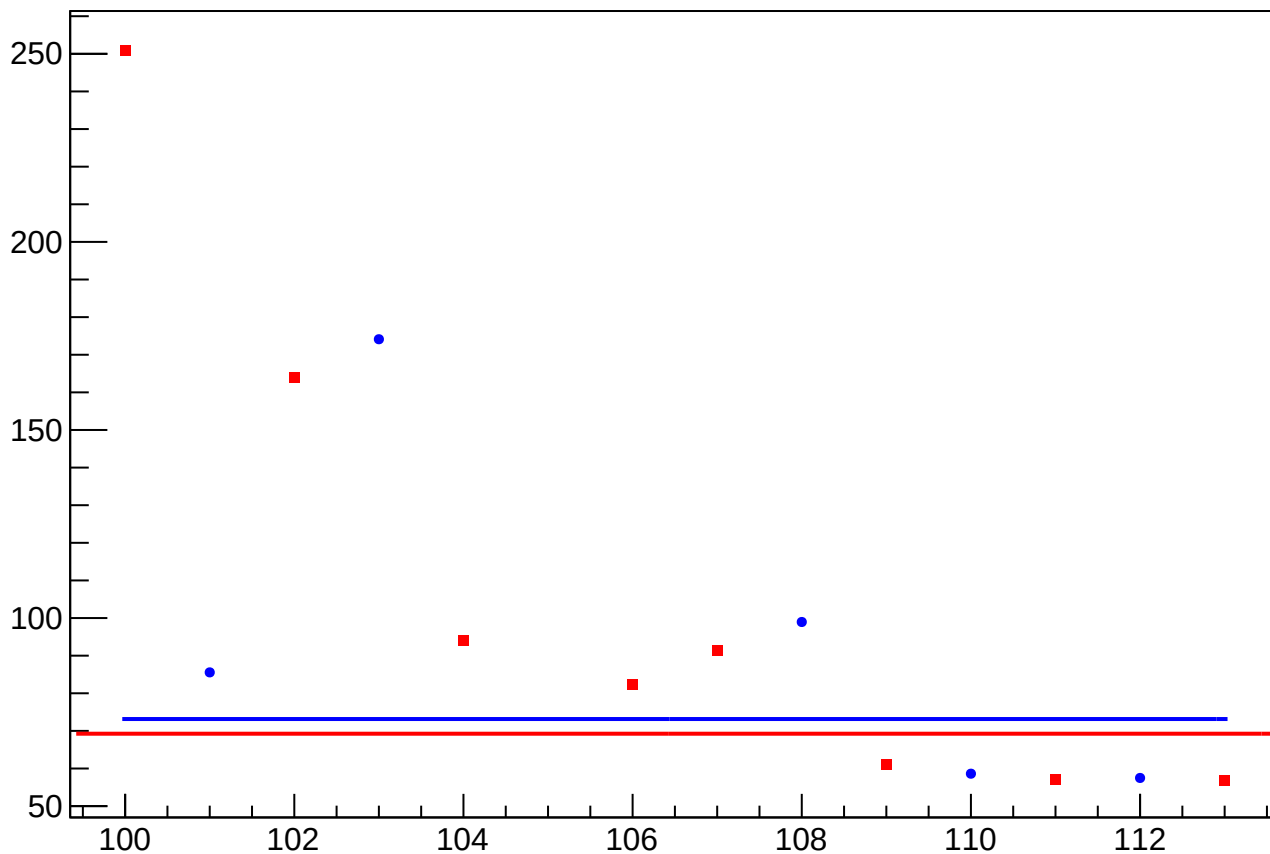
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -41.395+/-32.176  $\chi^2/\text{NDF}$ : 23.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 73.155+/-0.035  $\chi^2/\text{NDF}$ : 576845.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.251+/-0.030  $\chi^2/\text{NDF}$ : 687482.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

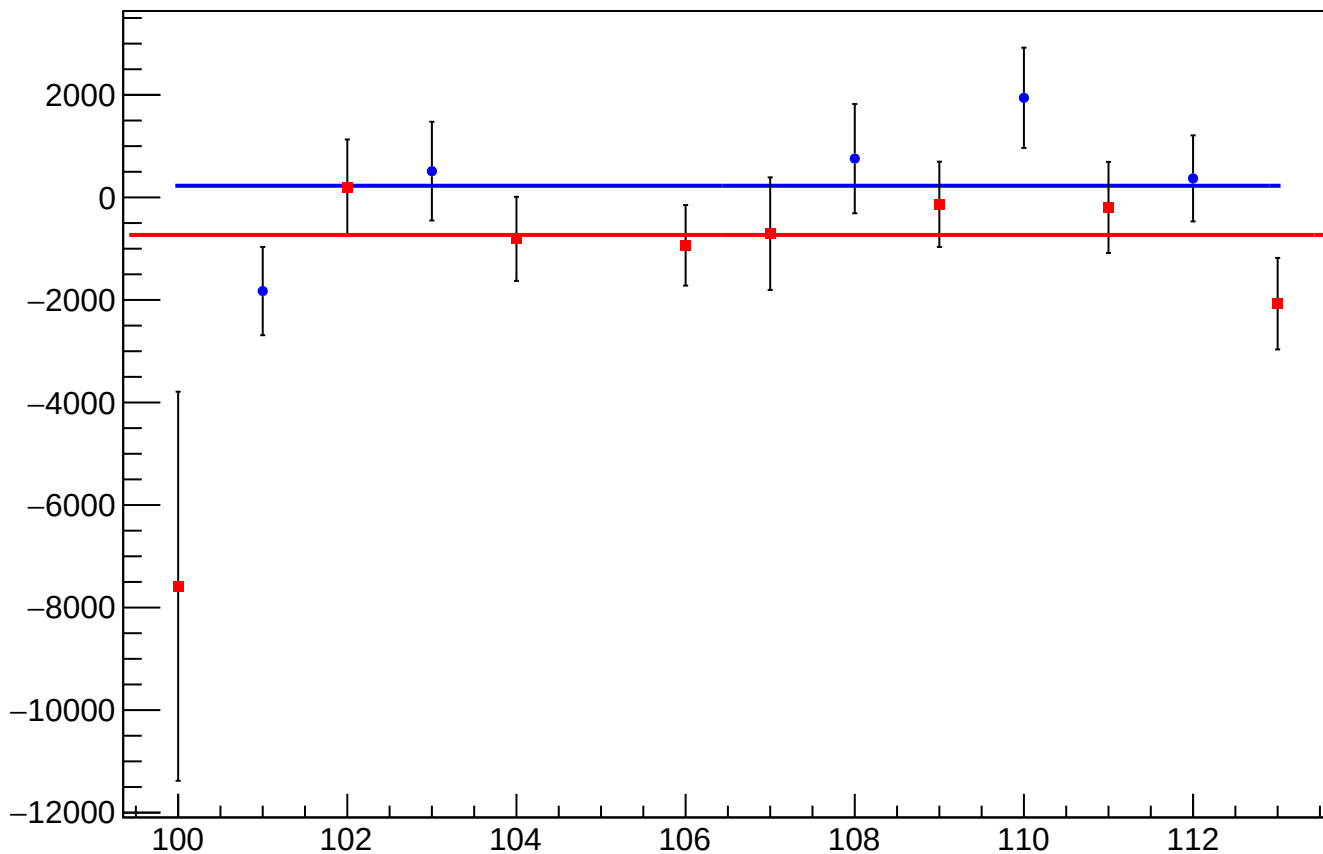
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.878+/-0.023  $\chi^2/\text{NDF}$ : 1271485.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 227.527+/-416.196  $\chi^2/\text{NDF}$ : 9.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -731.556+/-331.412  $\chi^2/\text{NDF}$ : 7.4/7

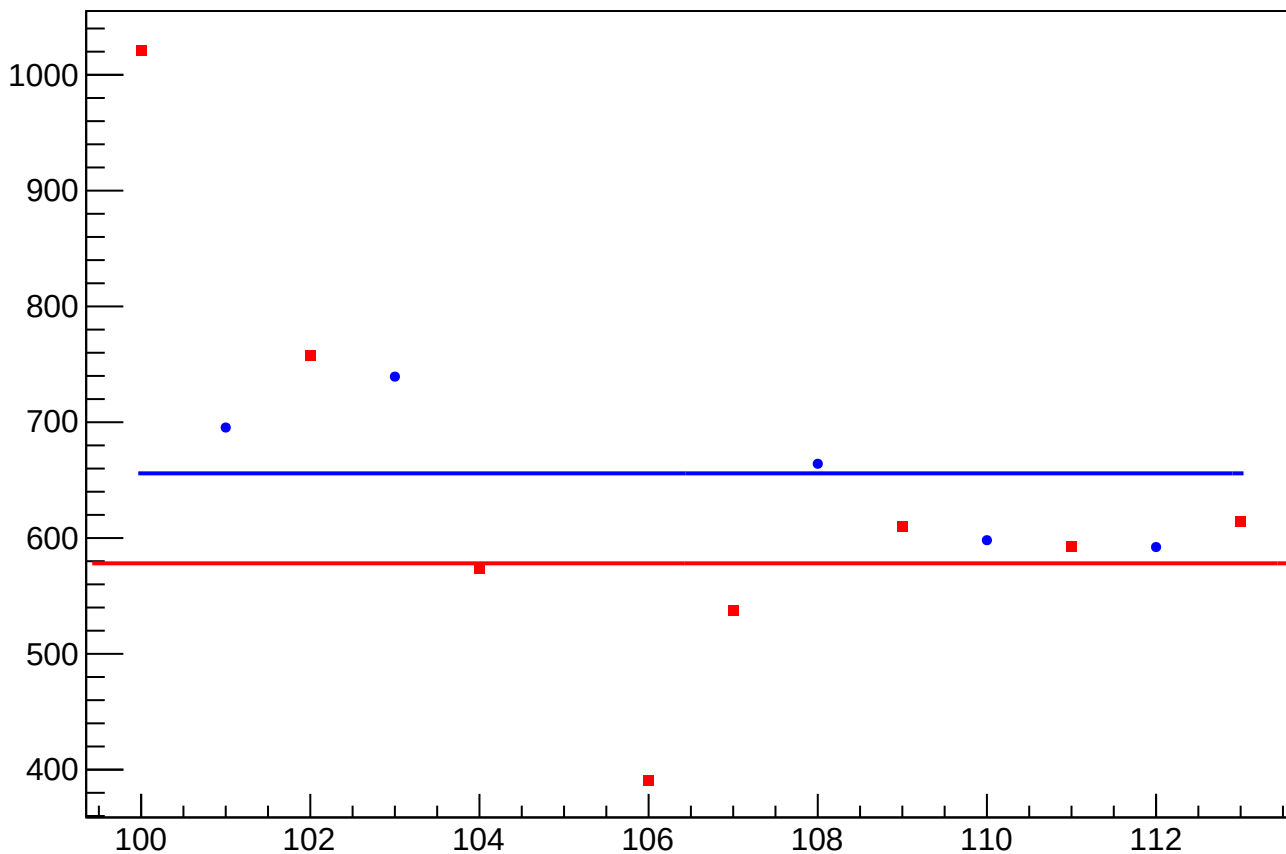
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -359.400+/-259.258  $\chi^2/\text{NDF}$ : 19.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 655.869 $\pm$ 0.294  $\chi^2$ /NDF: 37855.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 578.170 $\pm$ 0.234  $\chi^2$ /NDF: 223184.2/7

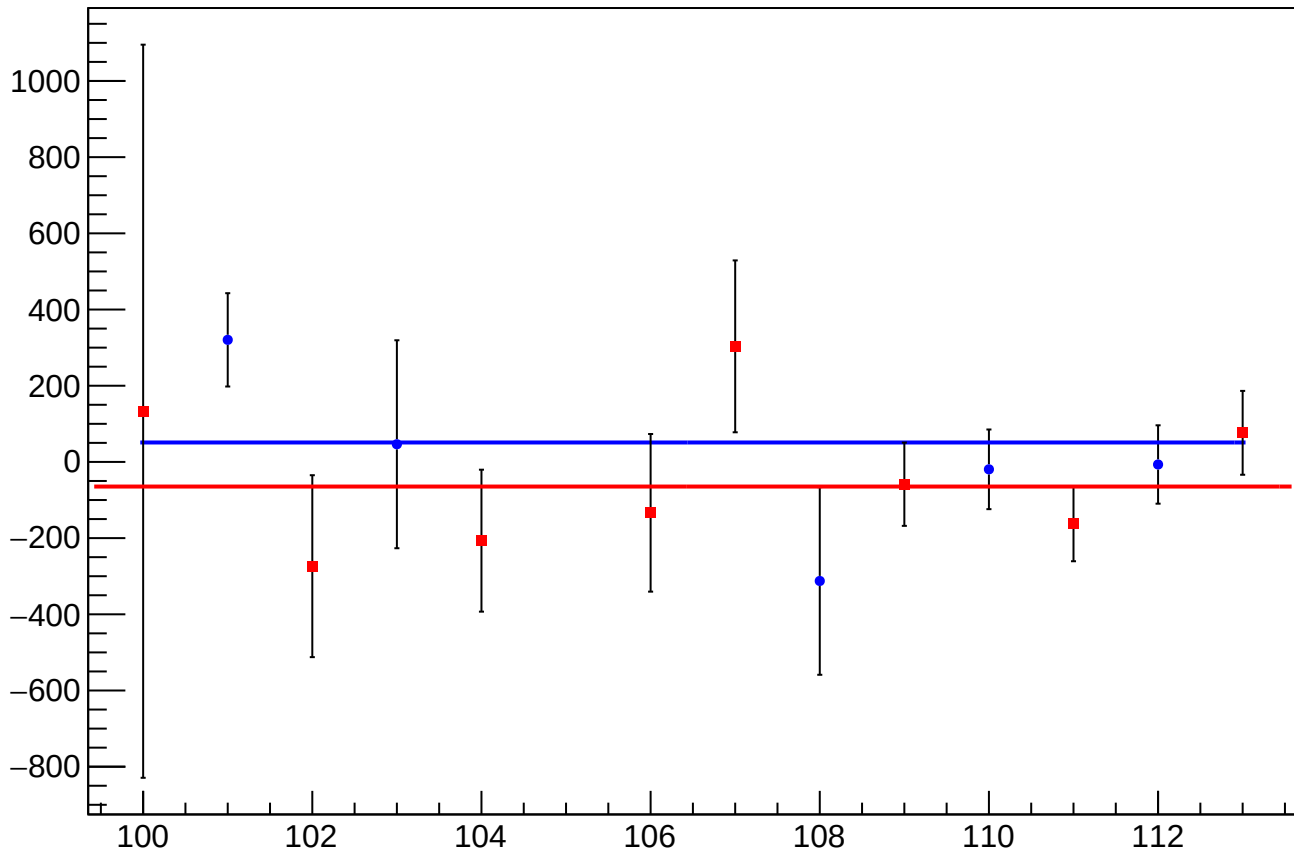
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 608.320 $\pm$ 0.183  $\chi^2$ /NDF: 303697.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 51.029+/-59.489  $\chi^2/\text{NDF}$ : 7.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -64.629+/-52.639  $\chi^2/\text{NDF}$ : 6.8/7

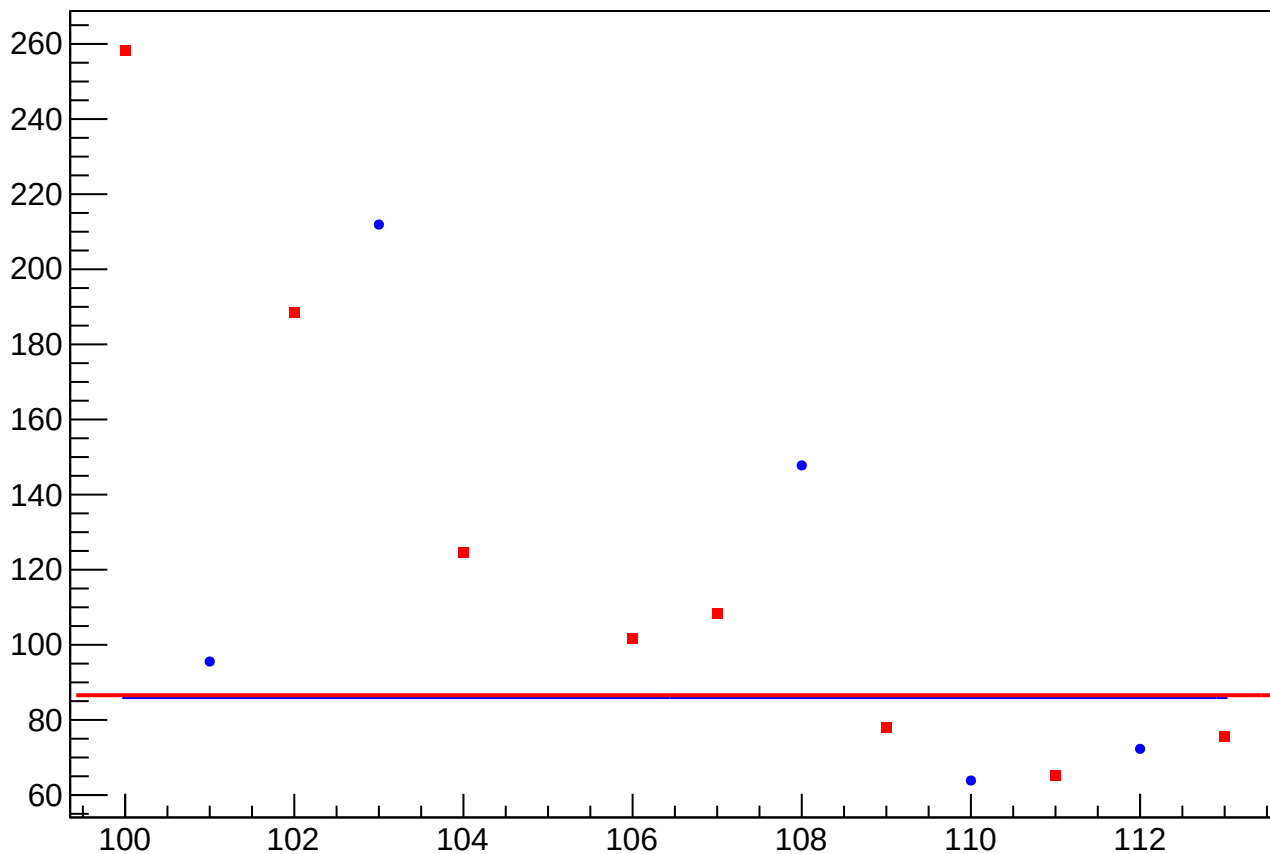
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.840+/-39.422  $\chi^2/\text{NDF}$ : 16.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 86.088 $\pm$ 0.042  $\chi^2$ /NDF: 688716.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 86.581 $\pm$ 0.037  $\chi^2$ /NDF: 667566.8/7

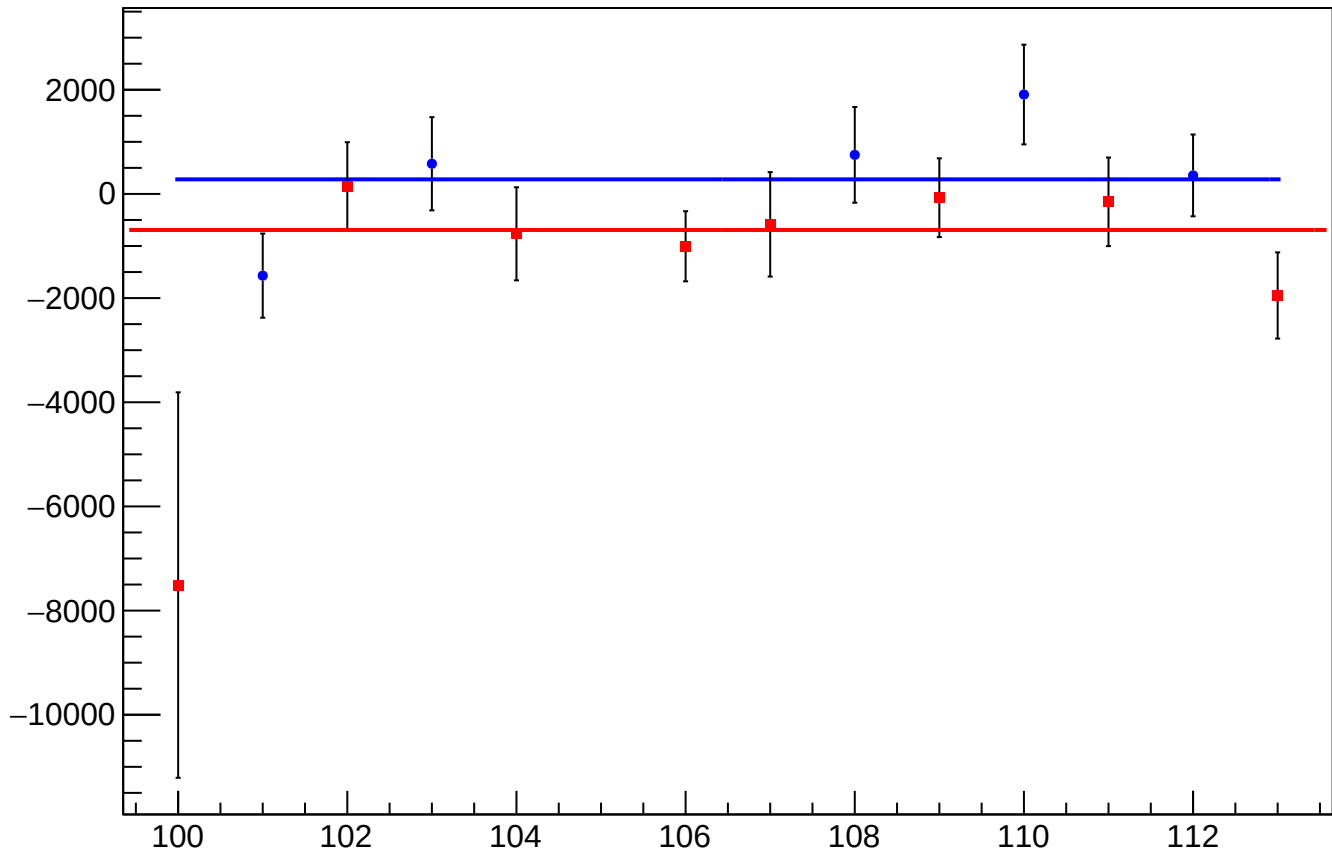
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 86.365 $\pm$ 0.028  $\chi^2$ /NDF: 1356360.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_dit\_correction\_mean vs Slug



Right In: 279.729+/-386.934  $\chi^2/\text{NDF}$ : 8.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -692.043+/-308.309  $\chi^2/\text{NDF}$ : 8.0/7

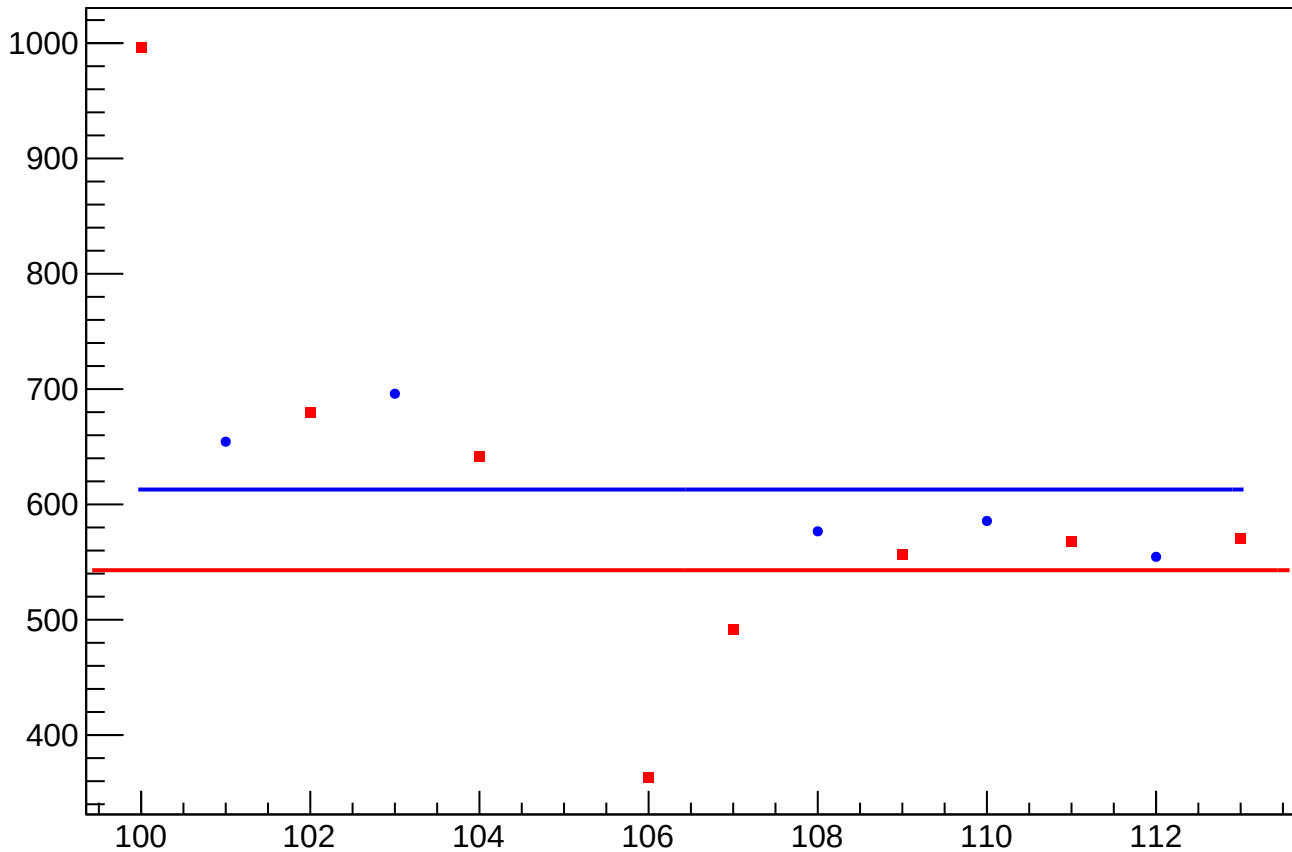
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -314.667+/-241.125  $\chi^2/\text{NDF}$ : 20.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_dit\_correction\_rms vs Slug



Right In: 612.915 $\pm$ 0.274  $\chi^2$ /NDF: 38295.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 542.939 $\pm$ 0.218  $\chi^2$ /NDF: 258933.9/7

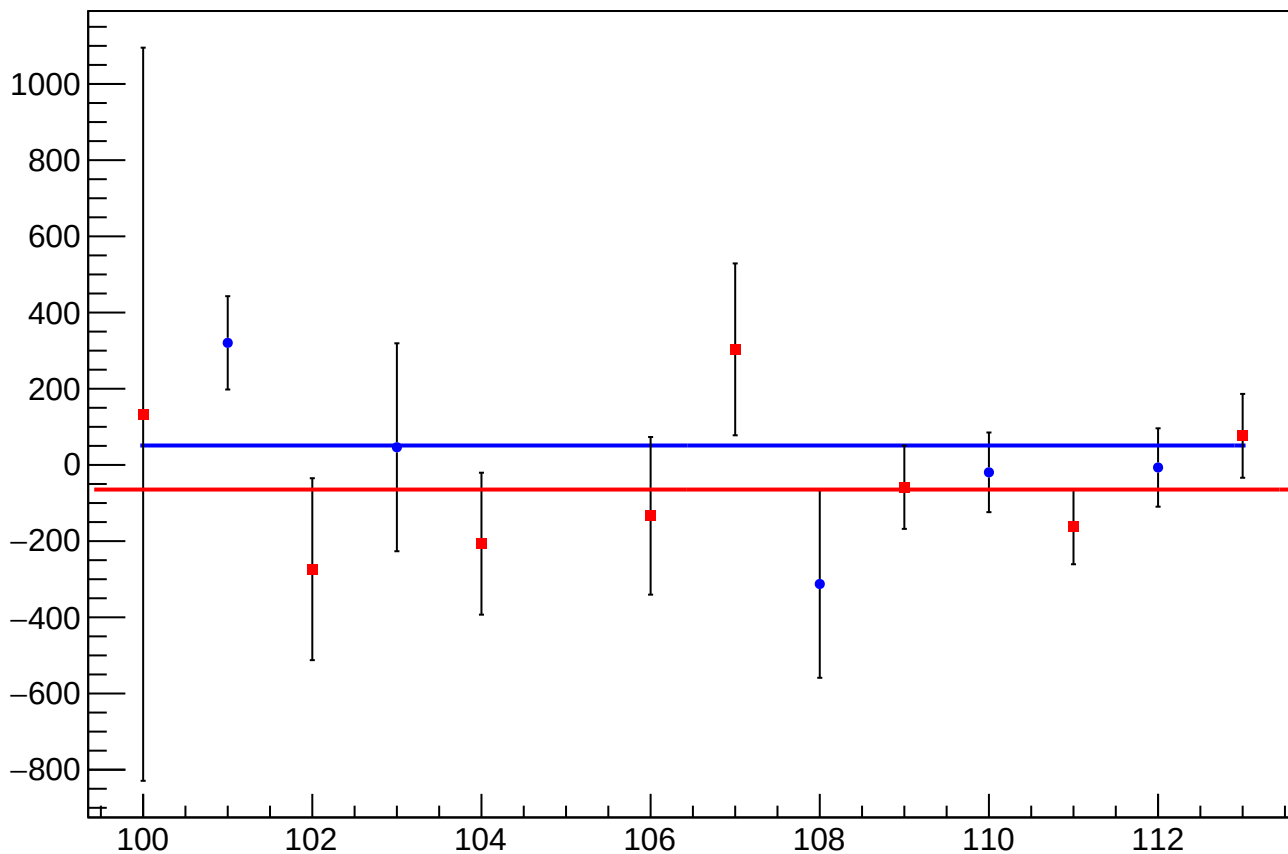
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 570.114 $\pm$ 0.171  $\chi^2$ /NDF: 337239.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 51.031+/-59.489  $\chi^2/\text{NDF}$ : 7.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -64.629+/-52.639  $\chi^2/\text{NDF}$ : 6.8/7

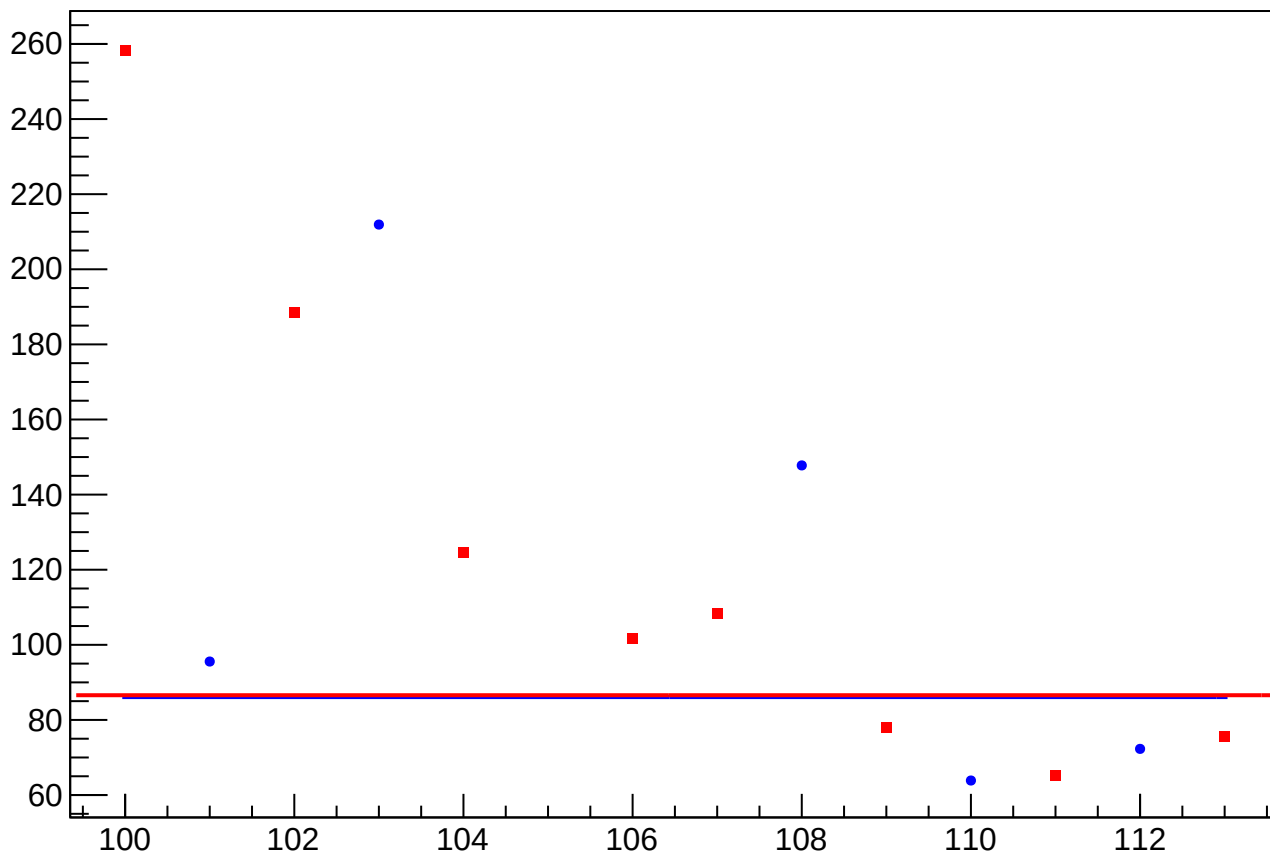
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.839+/-39.422  $\chi^2/\text{NDF}$ : 16.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 86.088 $\pm$ 0.042  $\chi^2$ /NDF: 688727.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 86.581 $\pm$ 0.037  $\chi^2$ /NDF: 667569.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

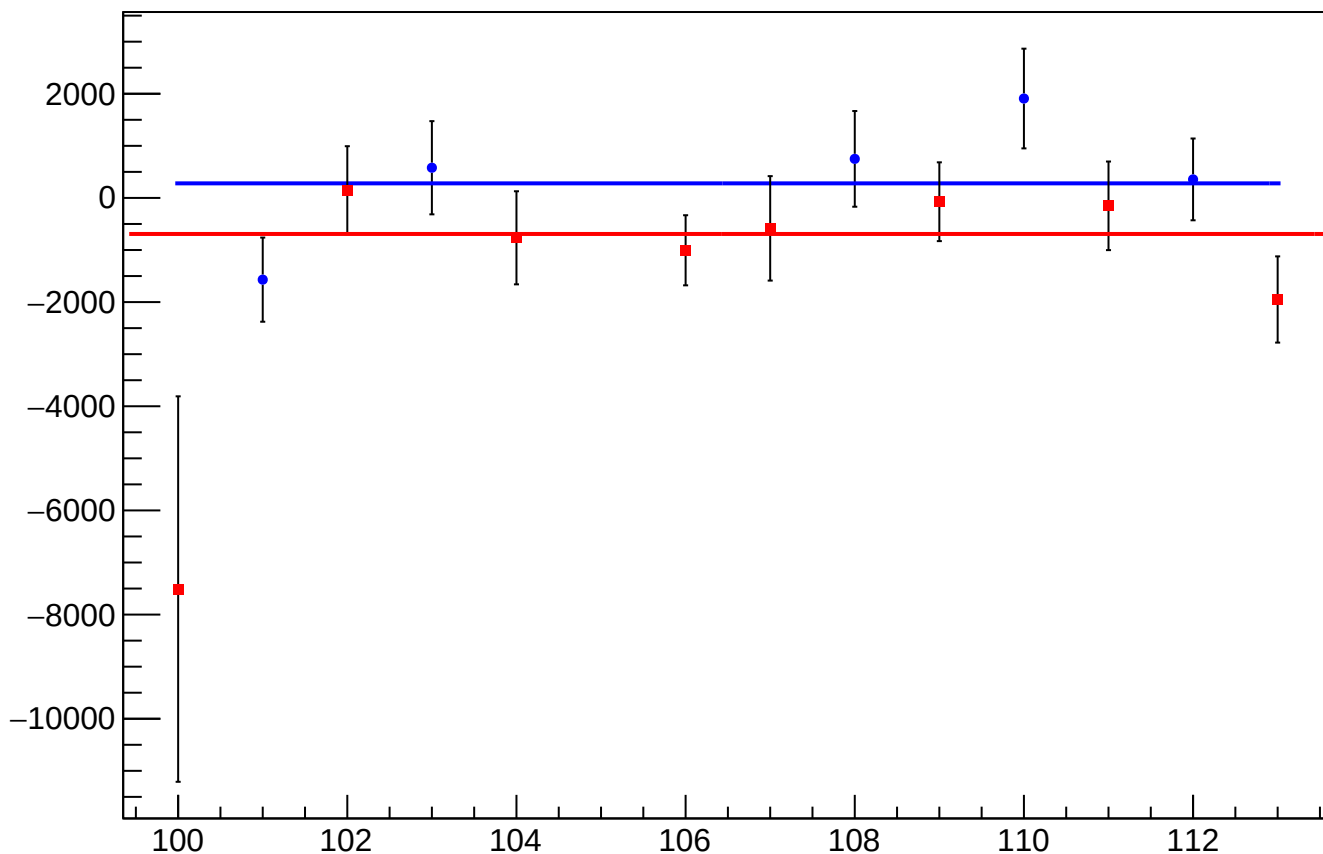
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 86.365 $\pm$ 0.028  $\chi^2$ /NDF: 1356373.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 279.727 $\pm$ 386.933  $\chi^2$ /NDF: 8.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -692.041 $\pm$ 308.308  $\chi^2$ /NDF: 8.0/7

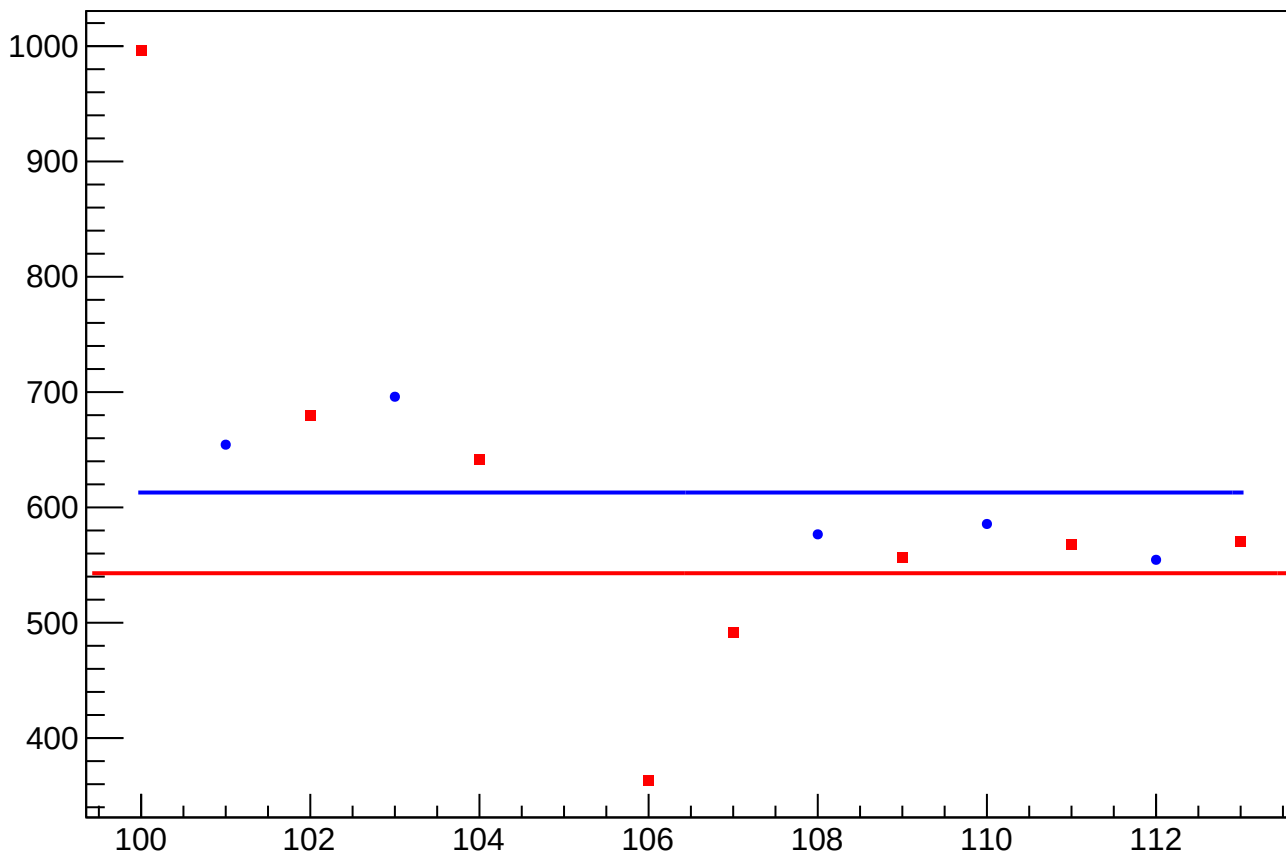
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -314.667 $\pm$ 241.124  $\chi^2$ /NDF: 20.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 612.914 $\pm$ 0.274  $\chi^2$ /NDF: 38293.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 542.938 $\pm$ 0.218  $\chi^2$ /NDF: 258931.7/7

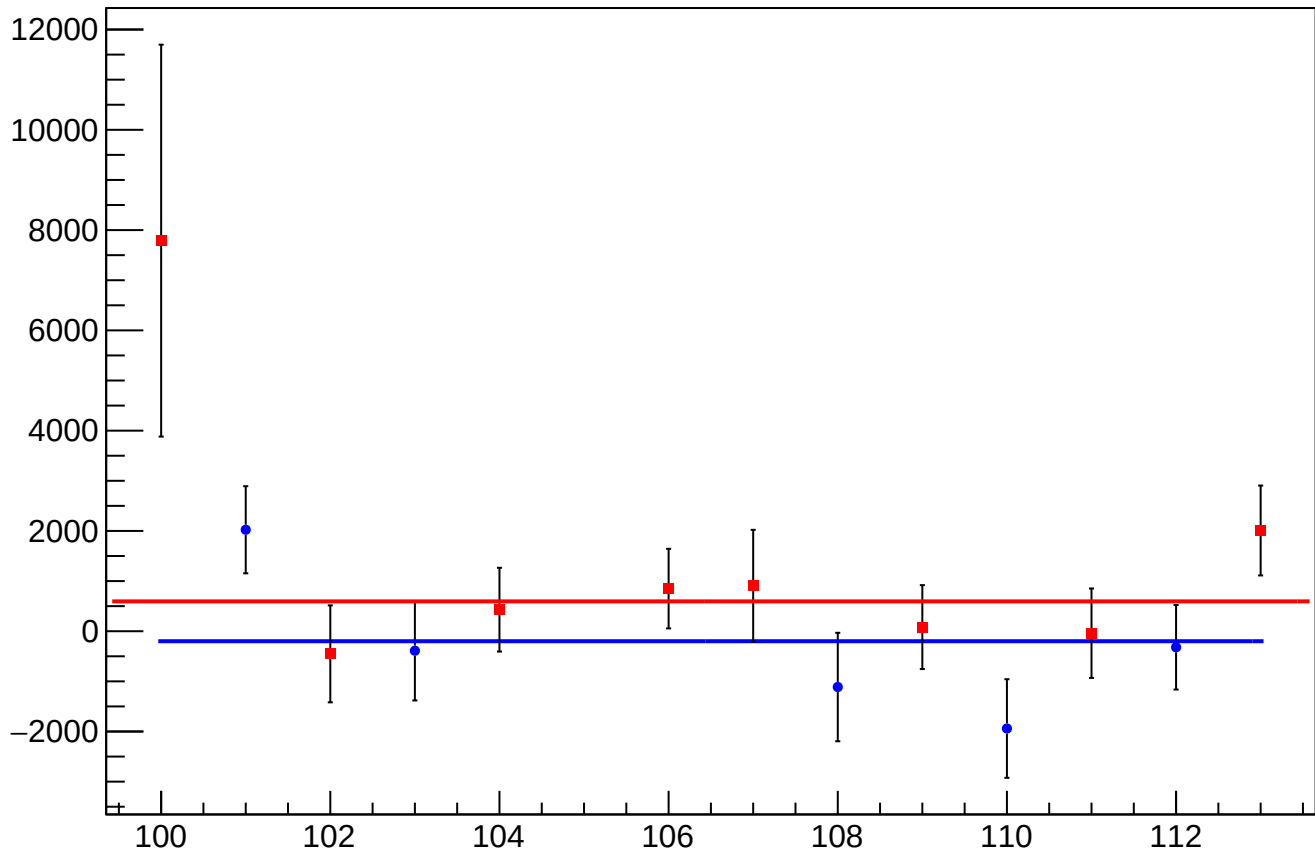
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 570.113 $\pm$ 0.171  $\chi^2$ /NDF: 337234.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_mean vs Slug



Right In:  $-199.485 \pm 421.125$   $\chi^2/\text{NDF}$ : 10.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $595.049 \pm 335.390$   $\chi^2/\text{NDF}$ : 8.2/7

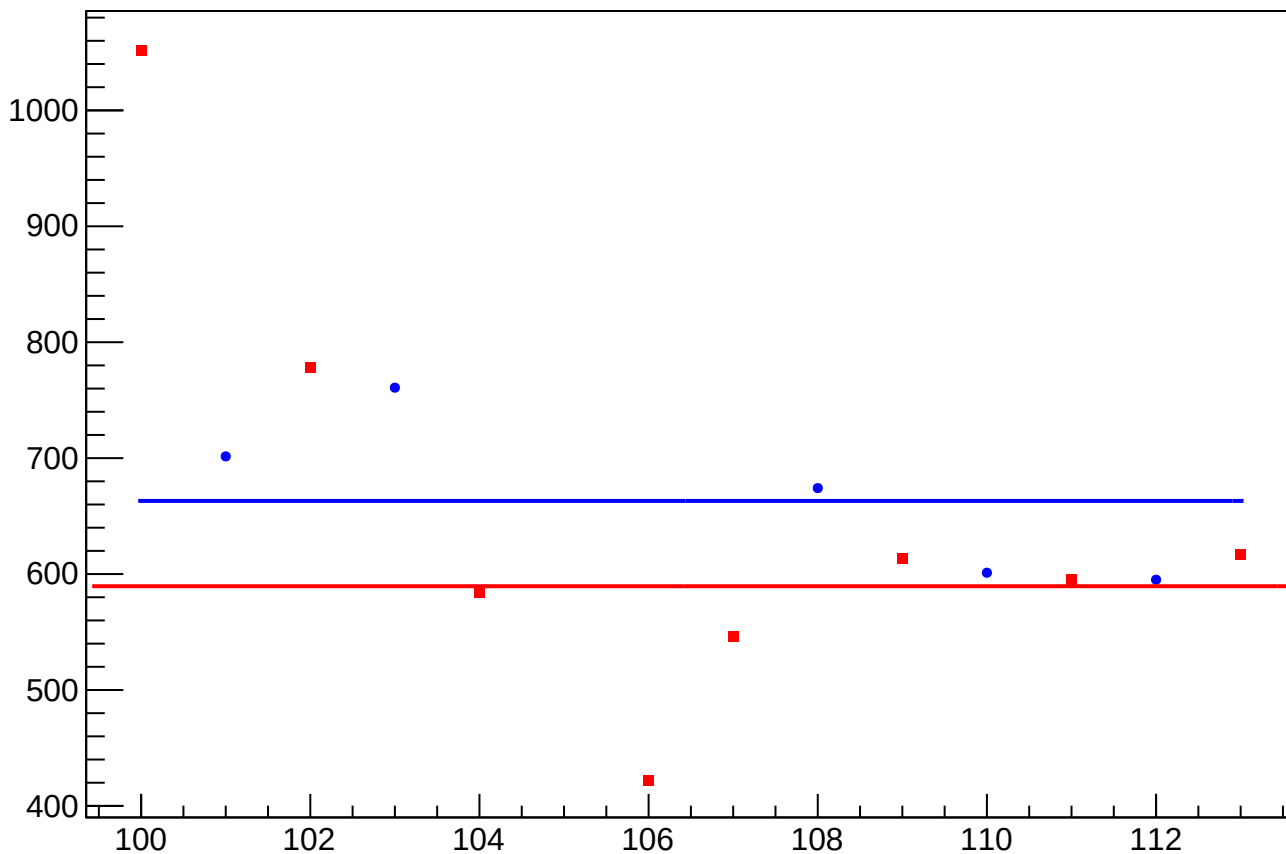
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $286.684 \pm 262.354$   $\chi^2/\text{NDF}$ : 20.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_rms vs Slug



Right In: 663.106 $\pm$ 0.298  $\chi^2$ /NDF: 44487.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 589.515 $\pm$ 0.237  $\chi^2$ /NDF: 199697.8/7

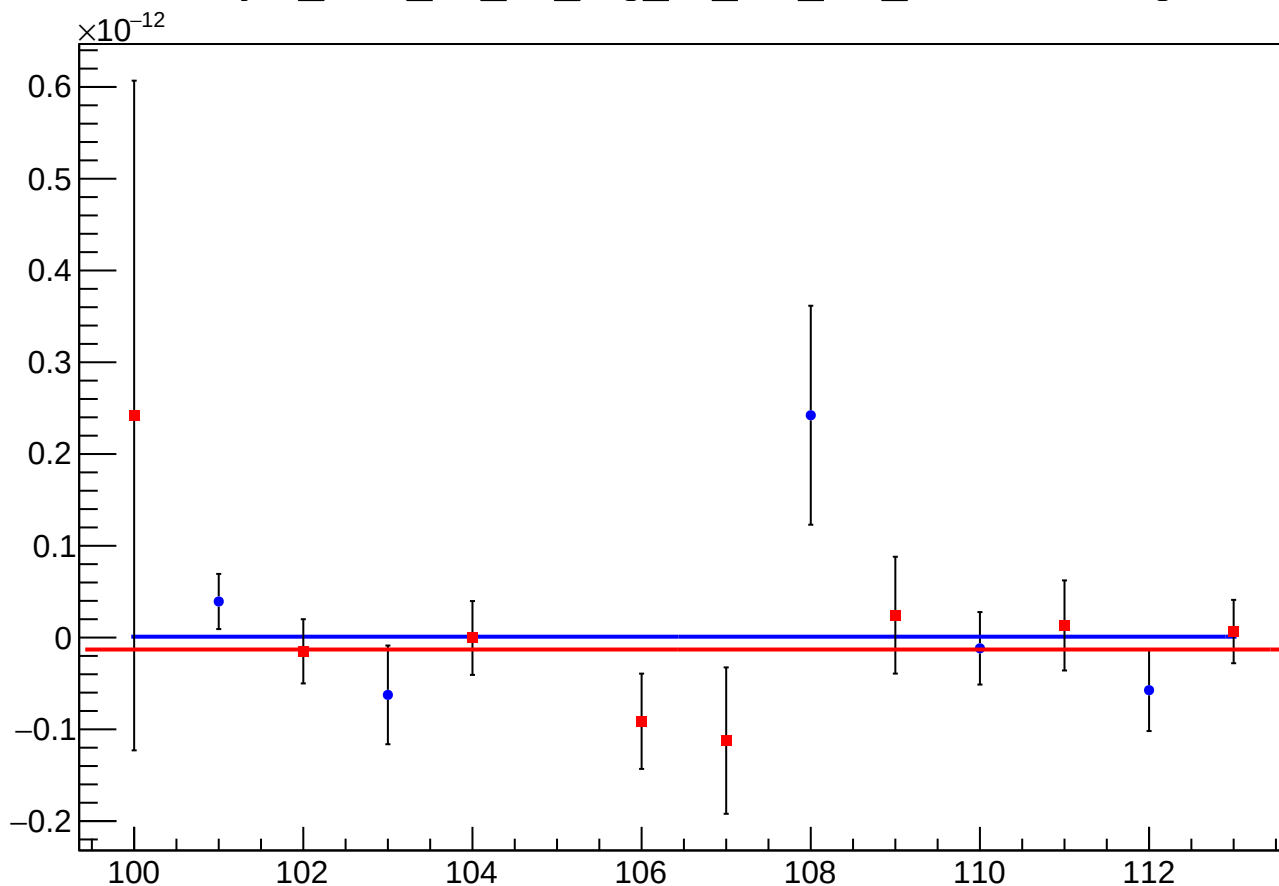
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 618.076 $\pm$ 0.186  $\chi^2$ /NDF: 281555.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 8.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 5.4/7

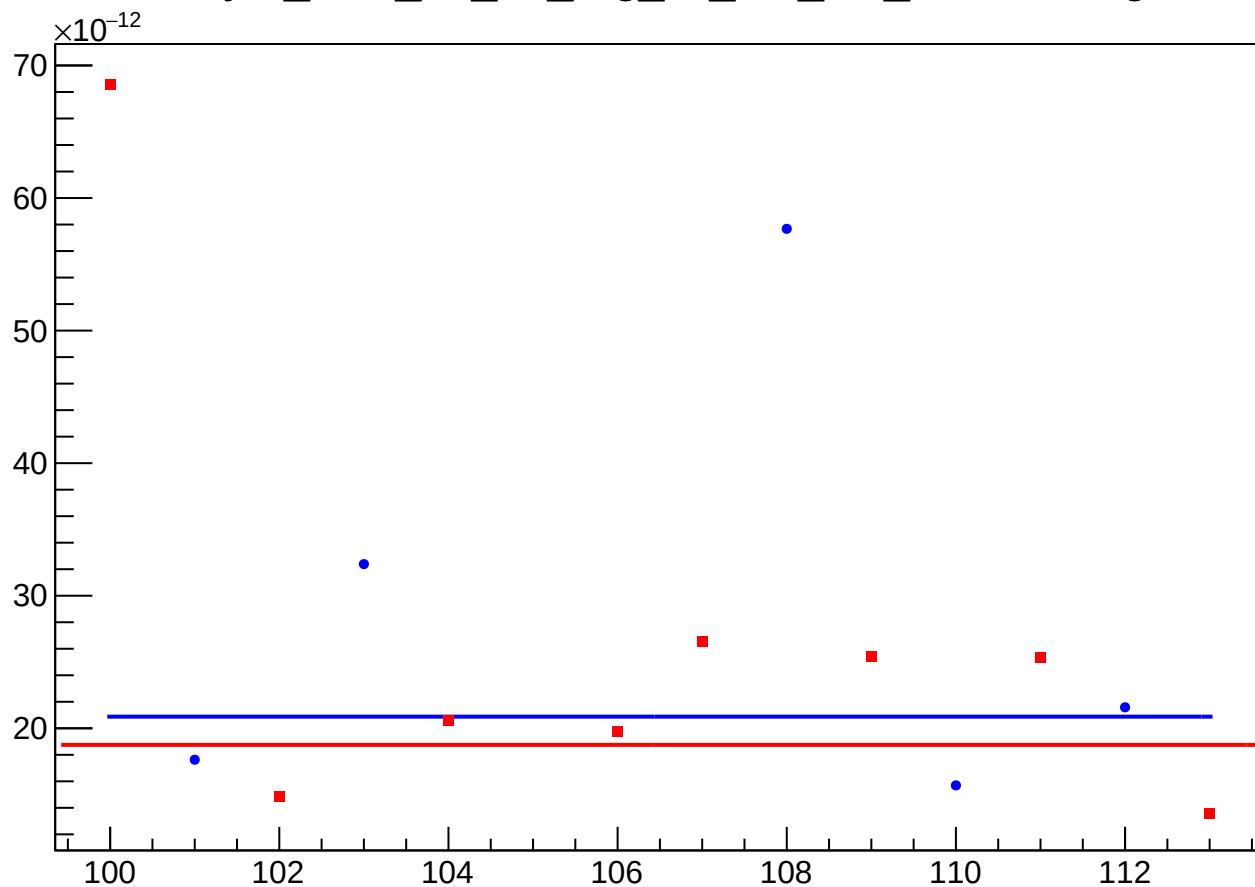
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 14.6/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 340165.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 189150.7/7

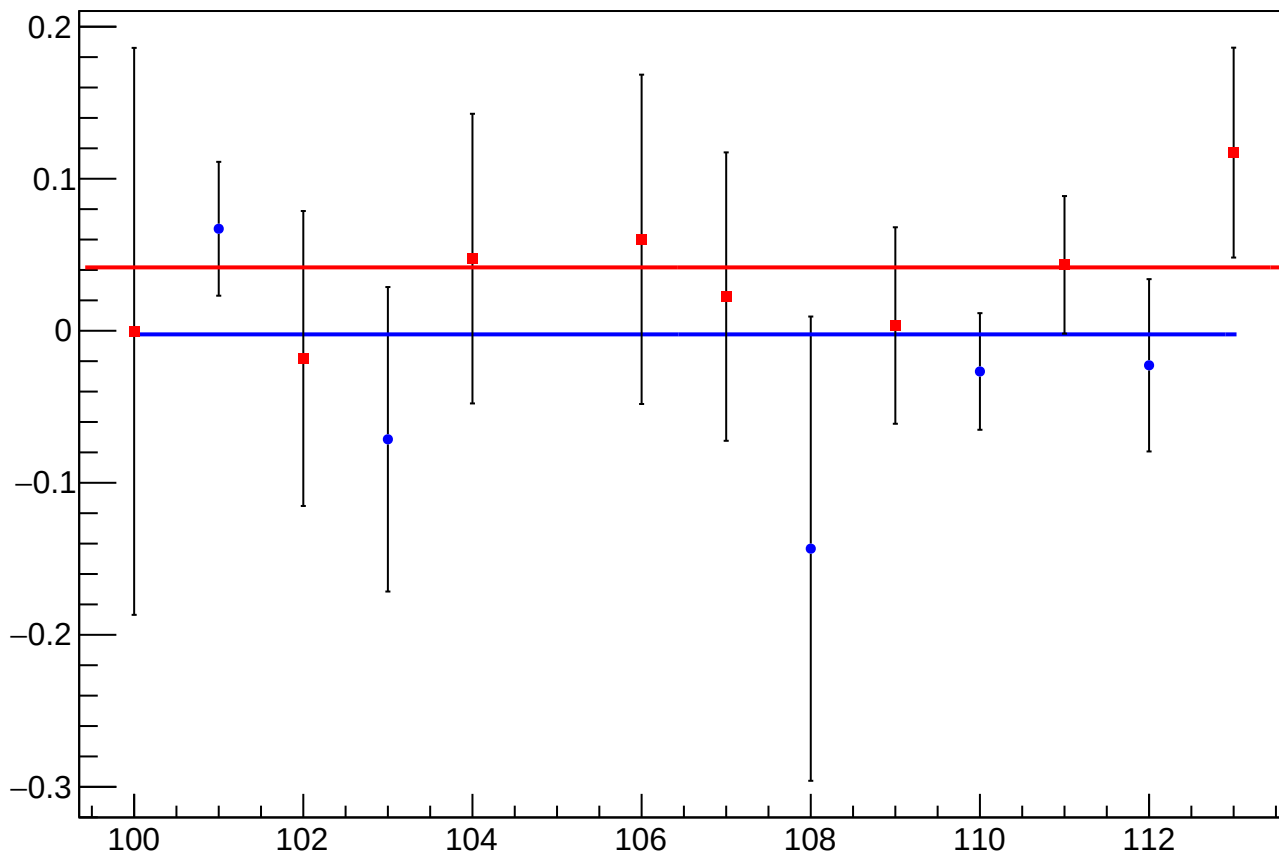
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 542987.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.002 \pm 0.025$   $\chi^2/\text{NDF}$ : 4.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.042 \pm 0.027$   $\chi^2/\text{NDF}$ : 2.1/7

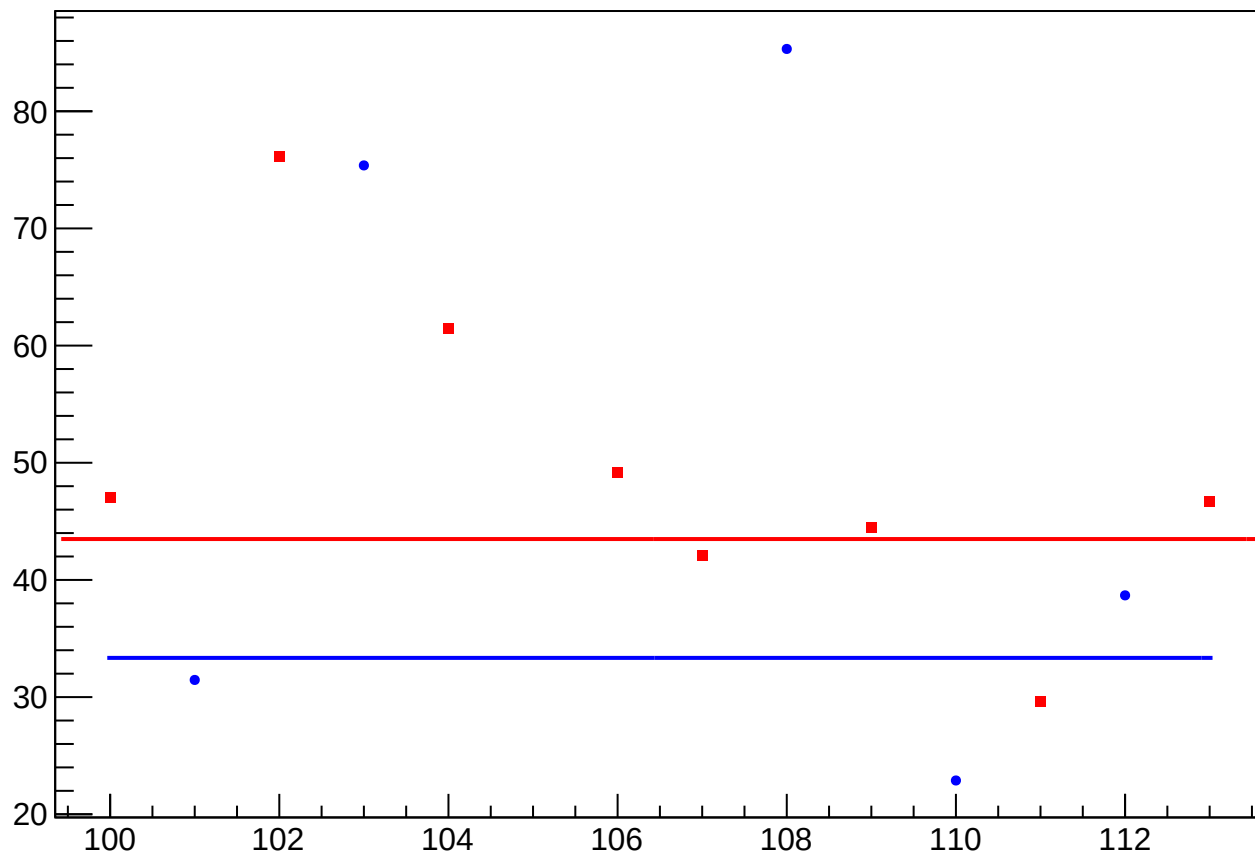
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.018 \pm 0.018$   $\chi^2/\text{NDF}$ : 7.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 33.347 $\pm$ 0.017  $\chi^2$ /NDF: 754170.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 43.490 $\pm$ 0.019  $\chi^2$ /NDF: 496871.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

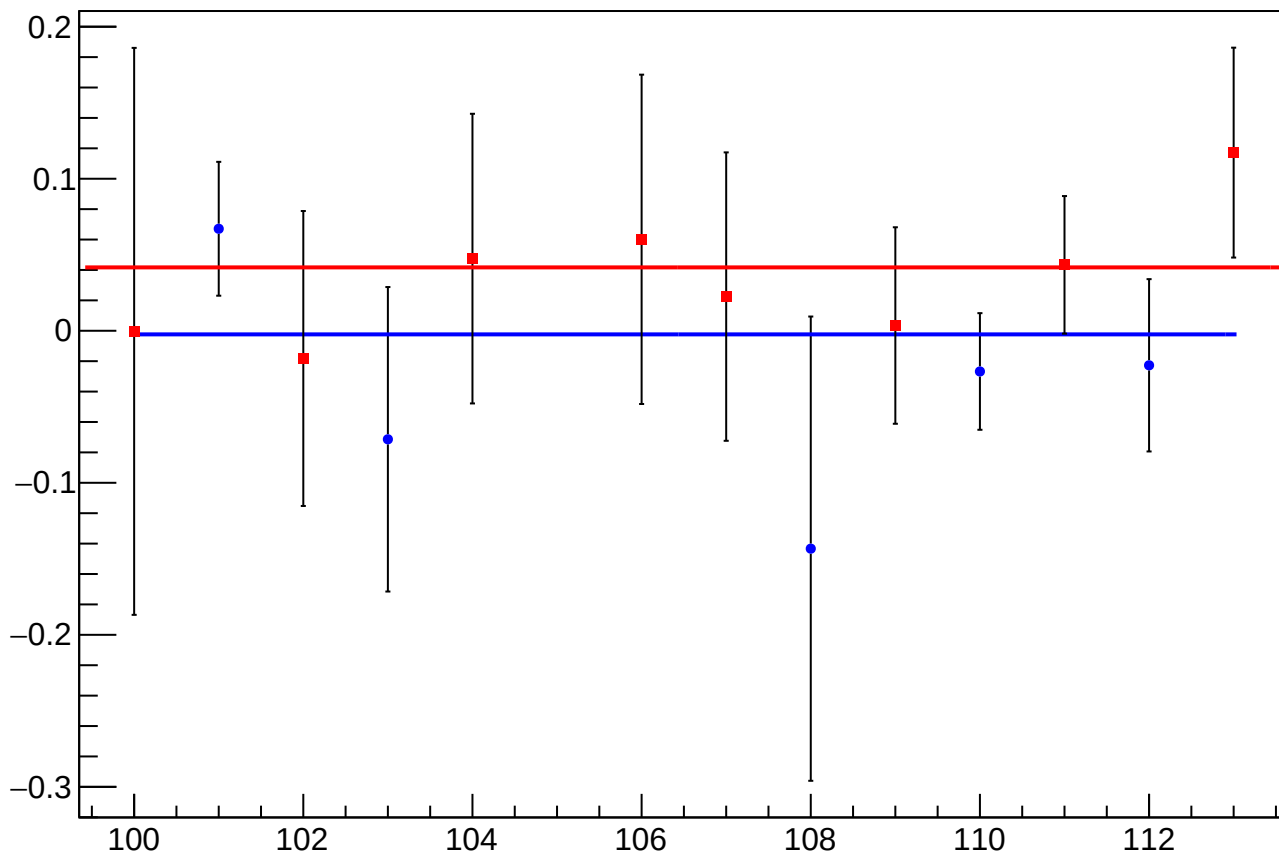
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.966 $\pm$ 0.013  $\chi^2$ /NDF: 1405582.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.025  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.042 $\pm$ 0.027  $\chi^2$ /NDF: 2.1/7

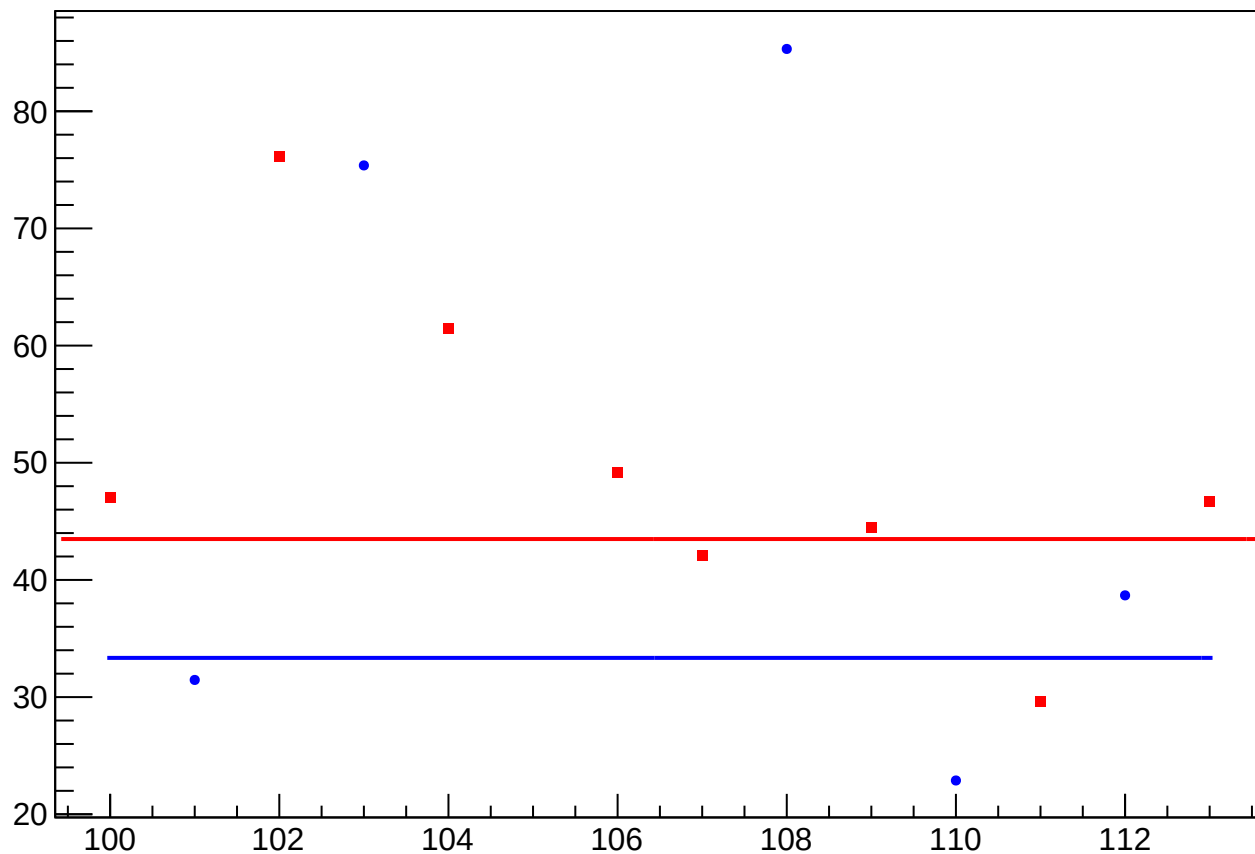
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.018  $\chi^2$ /NDF: 7.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 33.347 $\pm$ 0.017  $\chi^2$ /NDF: 754170.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 43.490 $\pm$ 0.019  $\chi^2$ /NDF: 496871.8/7

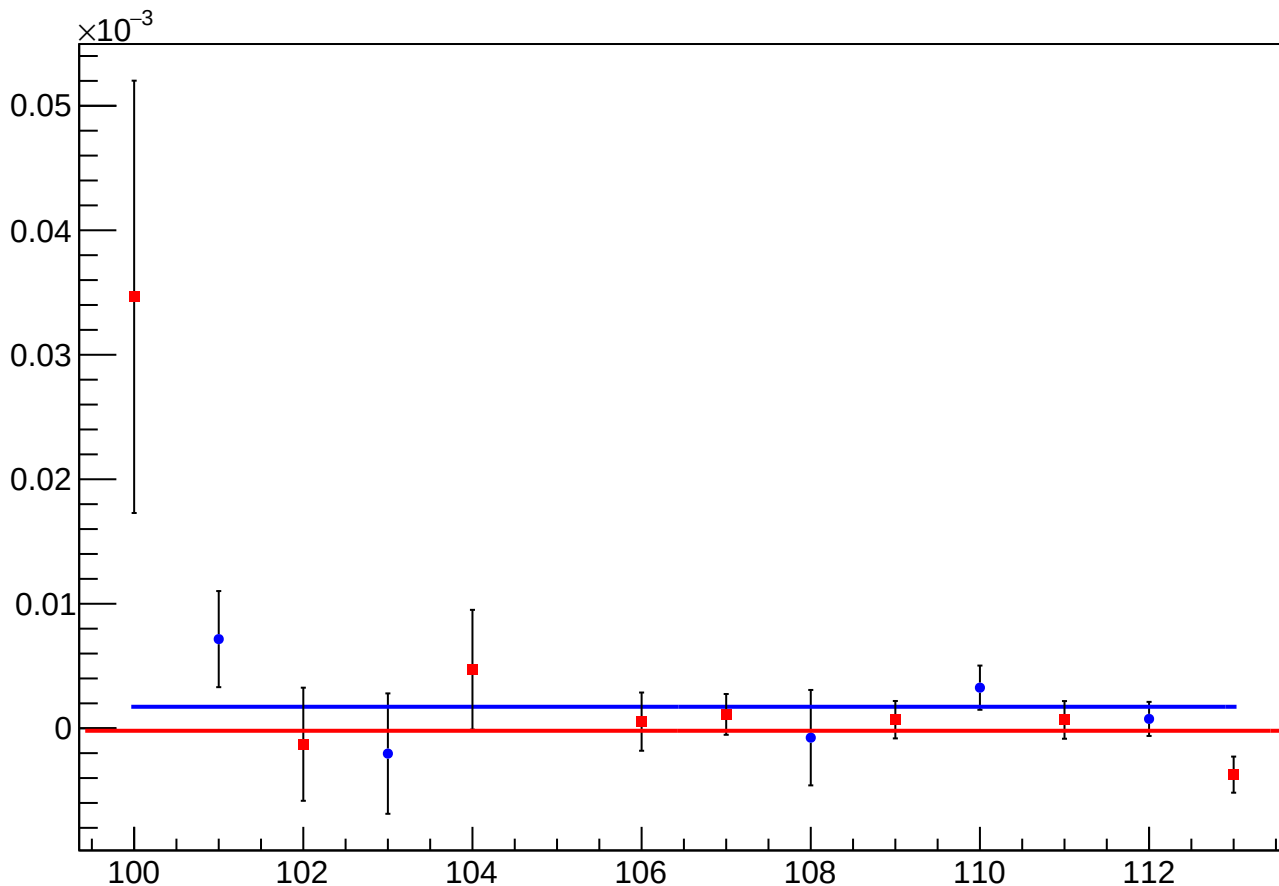
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.966 $\pm$ 0.013  $\chi^2$ /NDF: 1405582.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.5/7

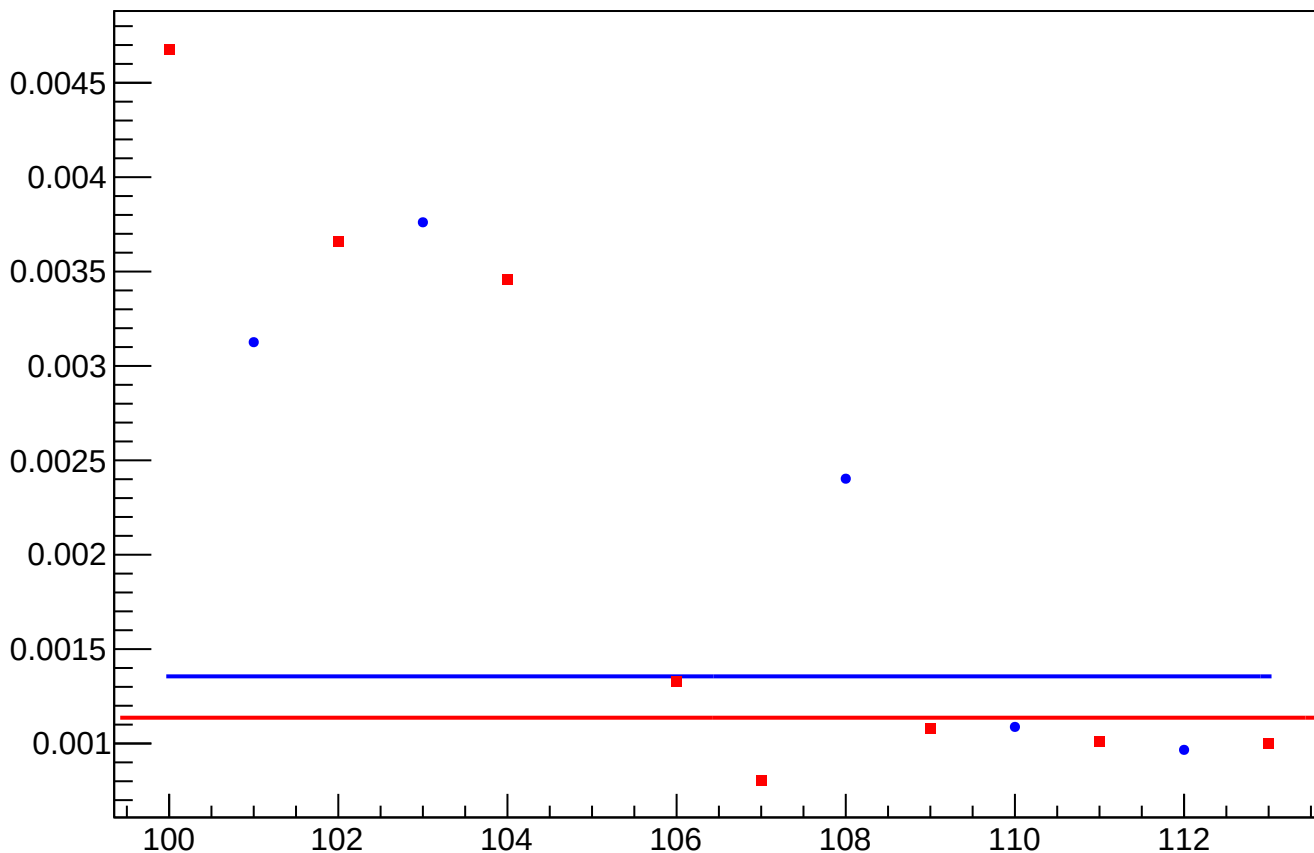
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1272184.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1295074.8/7

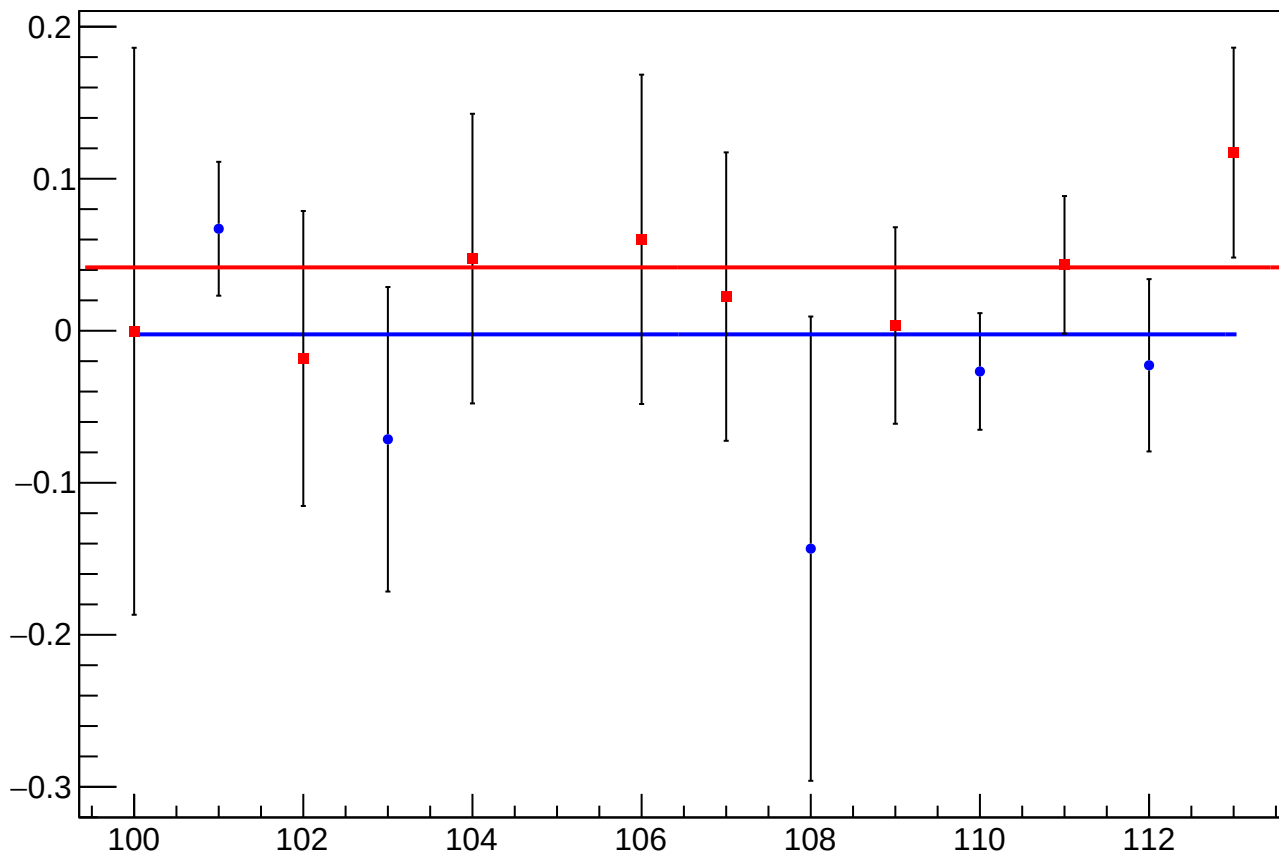
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2632533.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.025  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.042 $\pm$ 0.027  $\chi^2$ /NDF: 2.1/7

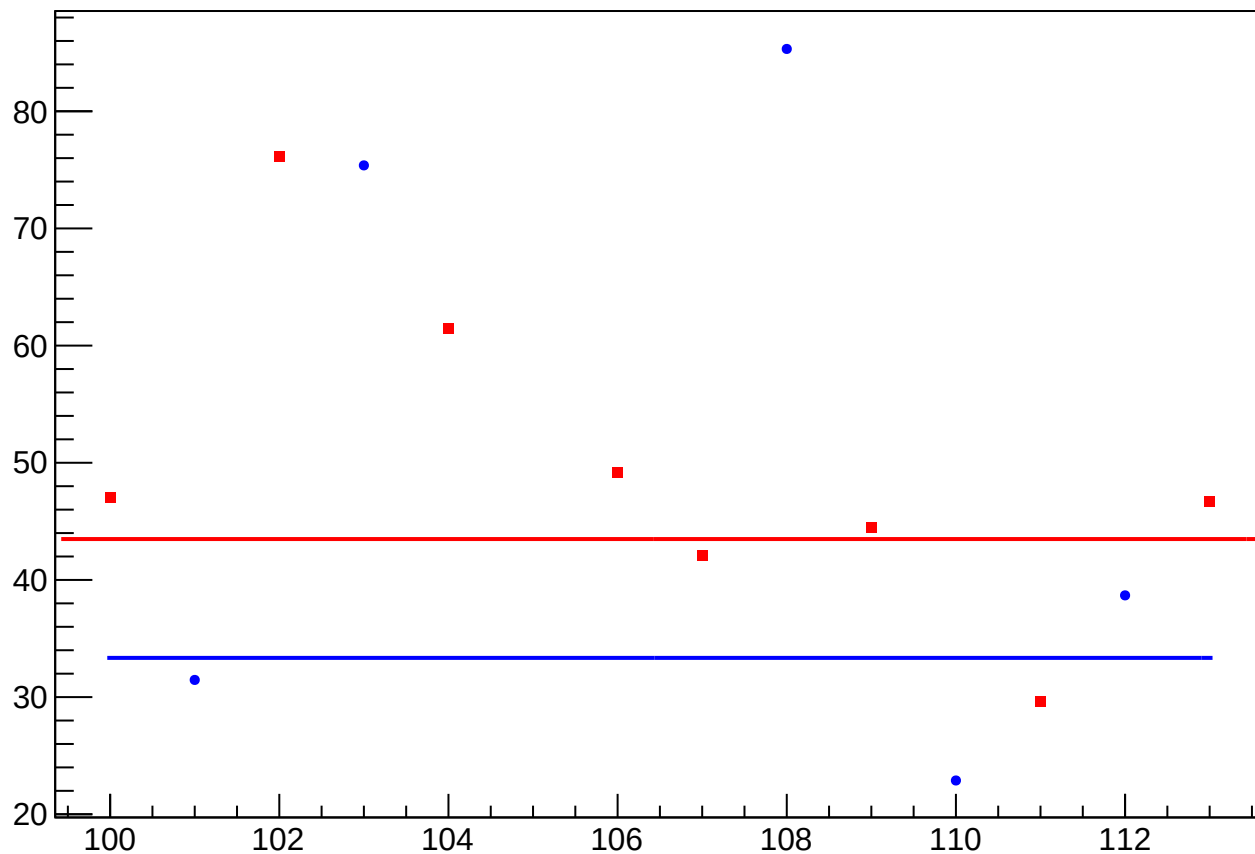
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.018  $\chi^2$ /NDF: 7.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 33.348+/-0.017  $\chi^2/\text{NDF}$ : 754194.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 43.490+/-0.019  $\chi^2/\text{NDF}$ : 496891.3/7

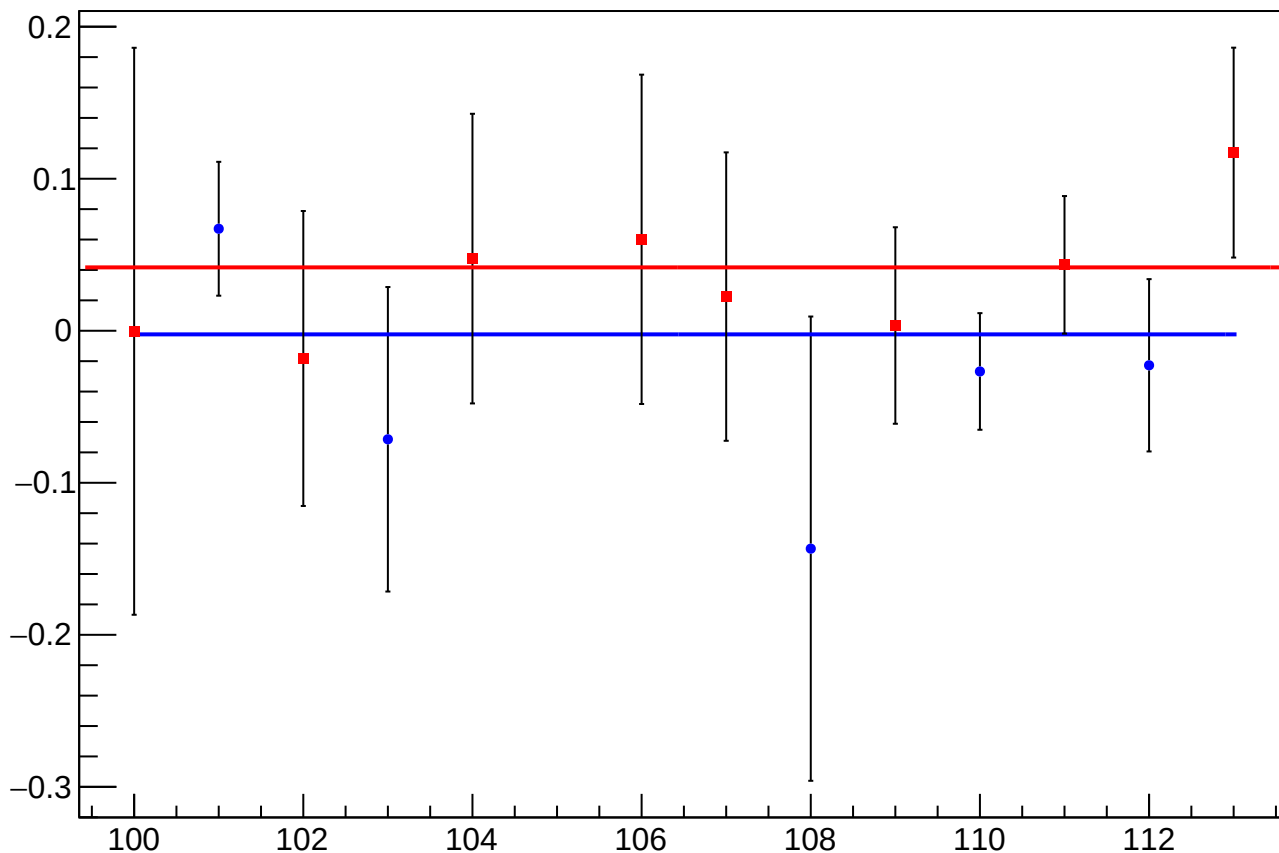
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.966+/-0.013  $\chi^2/\text{NDF}$ : 1405606.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.025  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.042 $\pm$ 0.027  $\chi^2$ /NDF: 2.1/7

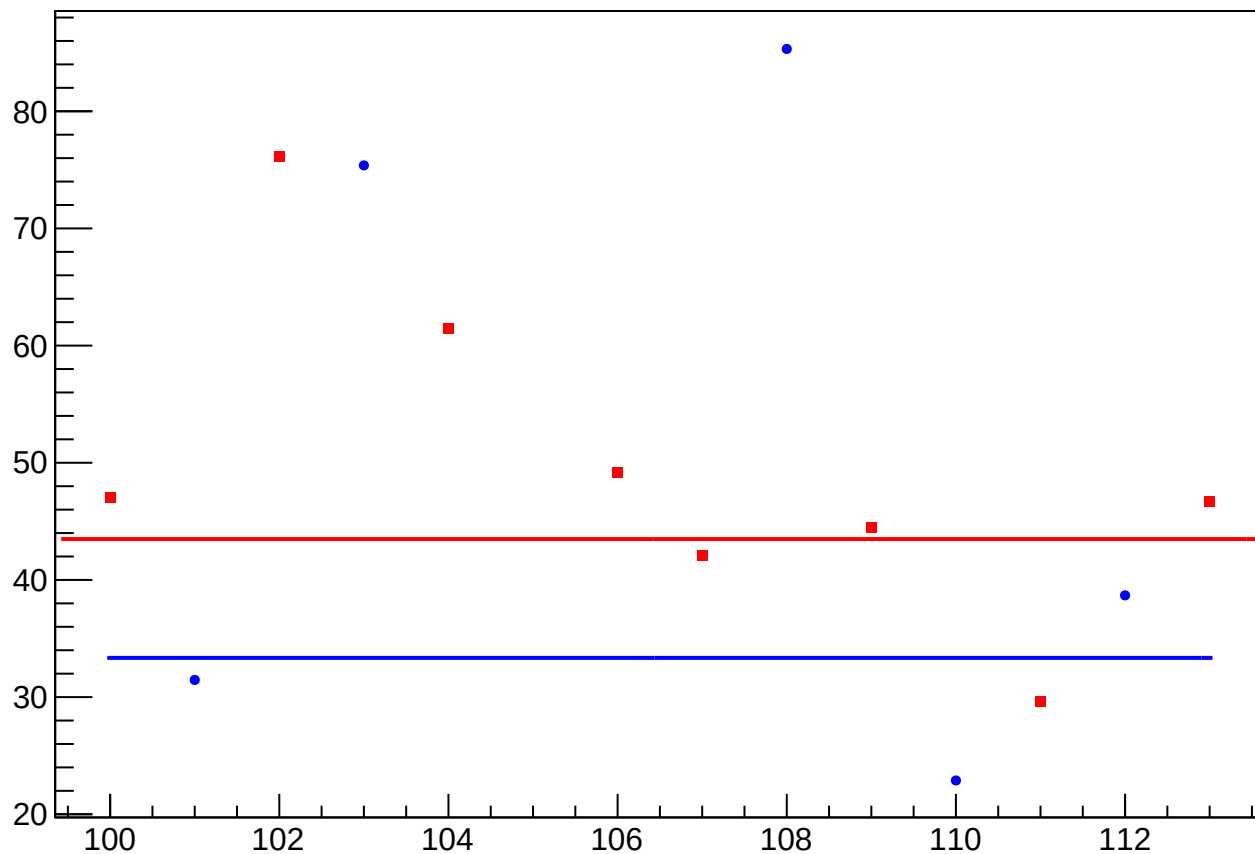
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.018  $\chi^2$ /NDF: 7.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 33.348+/-0.017  $\chi^2/\text{NDF}$ : 754194.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 43.490+/-0.019  $\chi^2/\text{NDF}$ : 496891.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

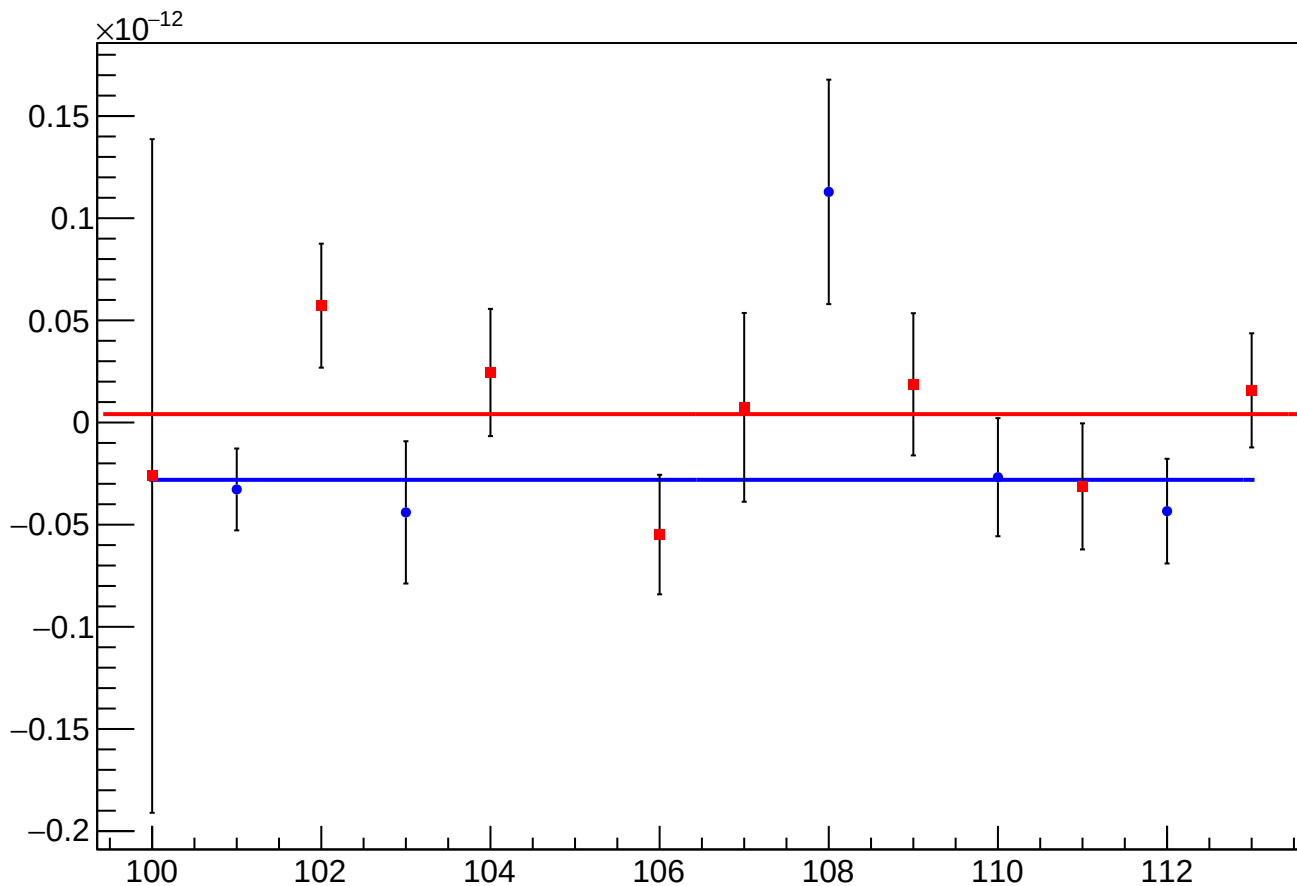
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.966+/-0.013  $\chi^2/\text{NDF}$ : 1405606.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.3/7

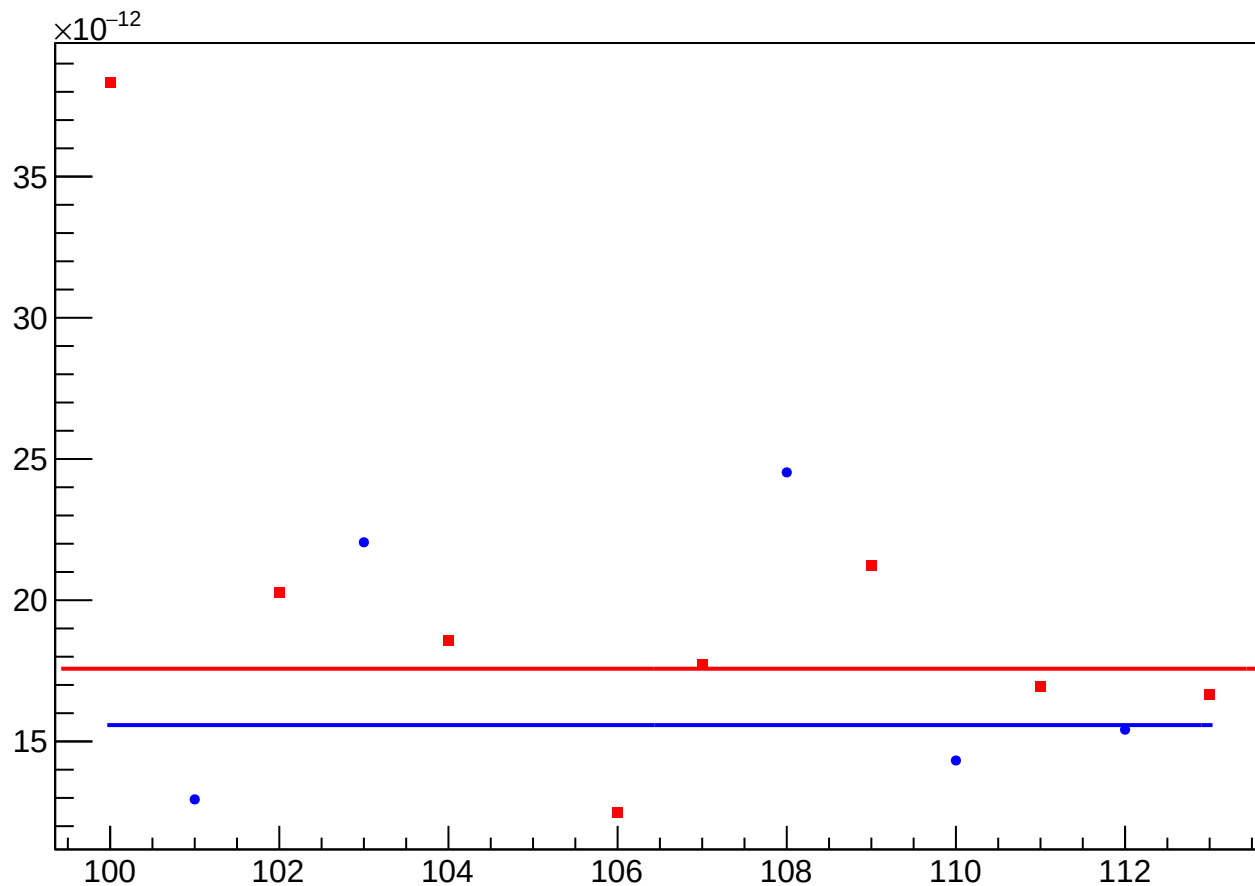
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 160476.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 134880.4/7

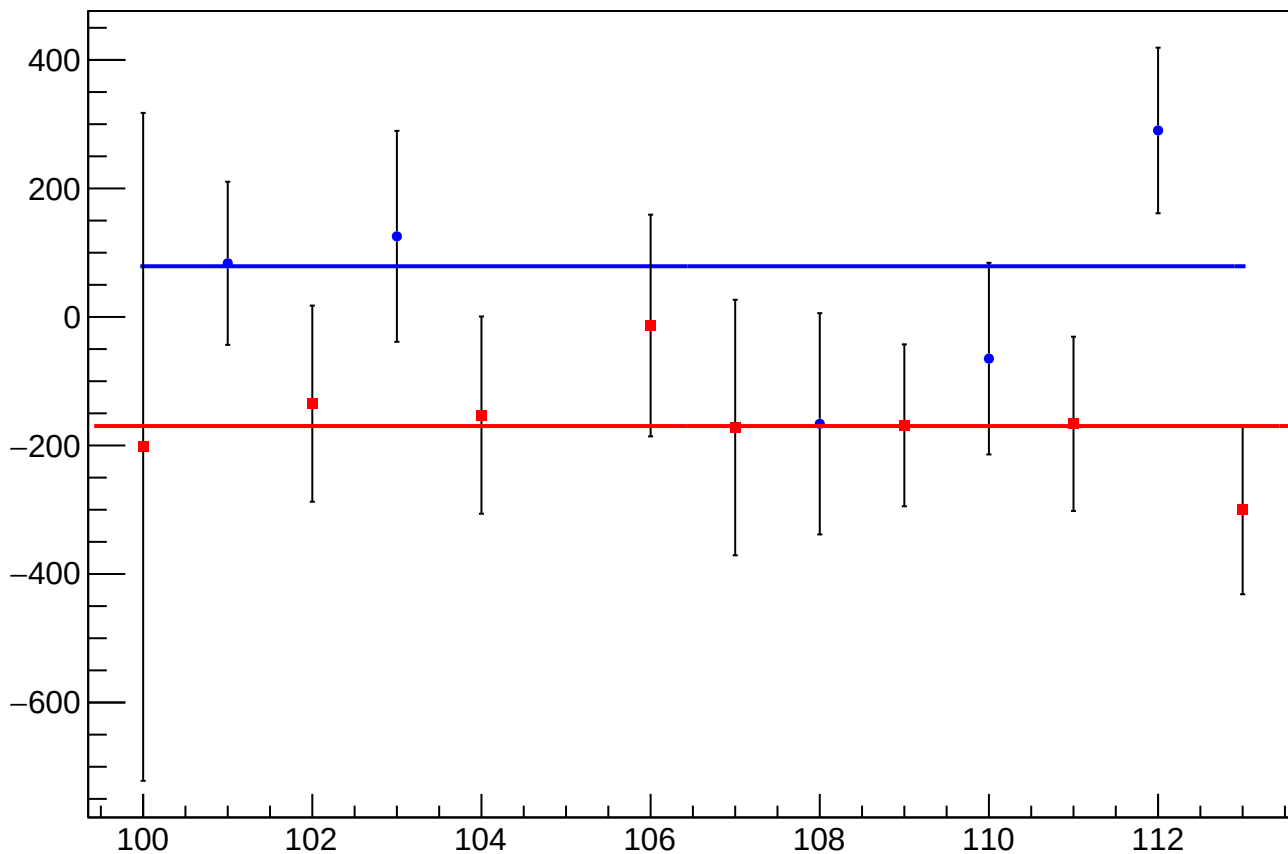
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 321849.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 78.913+/-64.810  $\chi^2/\text{NDF}$ : 5.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -169.778+/-55.616  $\chi^2/\text{NDF}$ : 1.9/7

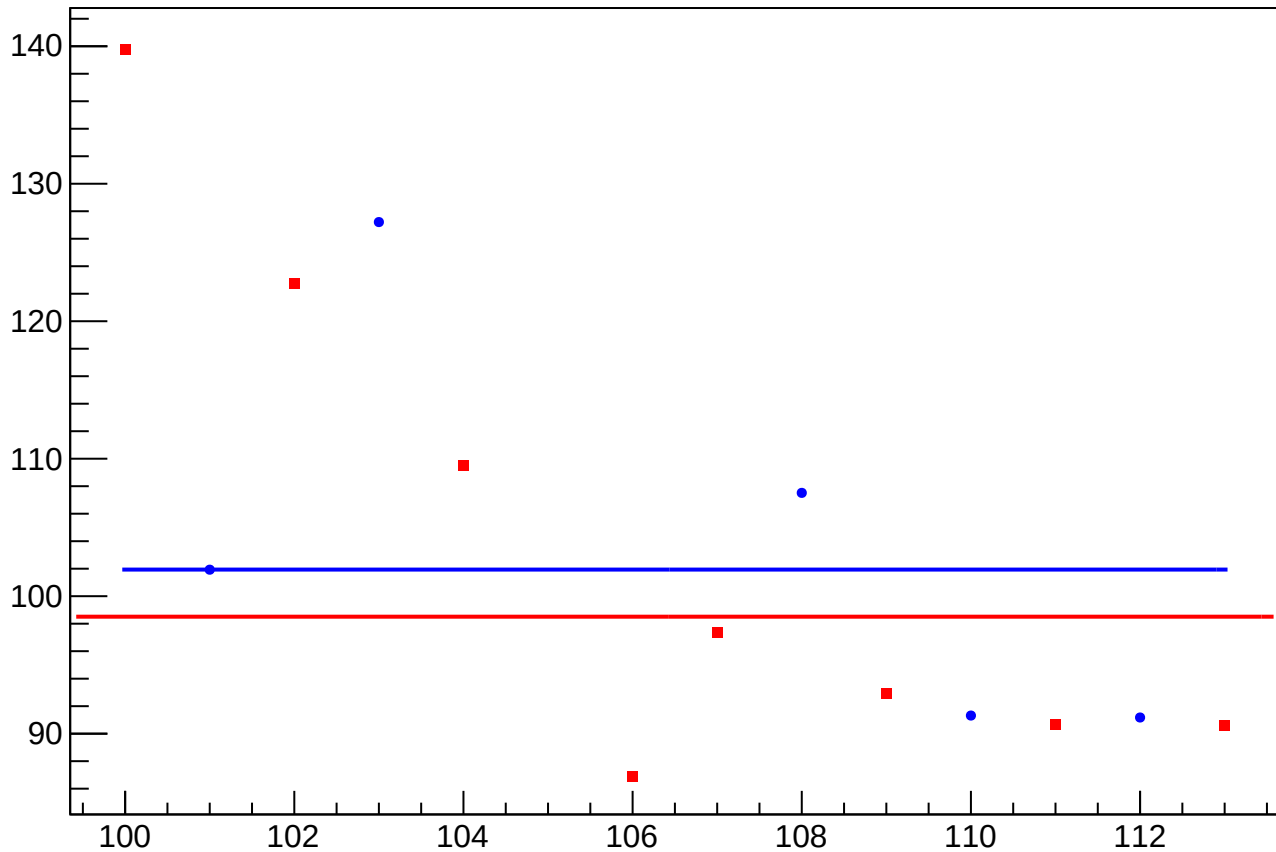
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -64.308+/-42.206  $\chi^2/\text{NDF}$ : 16.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 101.936 $\pm$ 0.046  $\chi^2$ /NDF: 73587.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 98.509 $\pm$ 0.039  $\chi^2$ /NDF: 100269.3/7

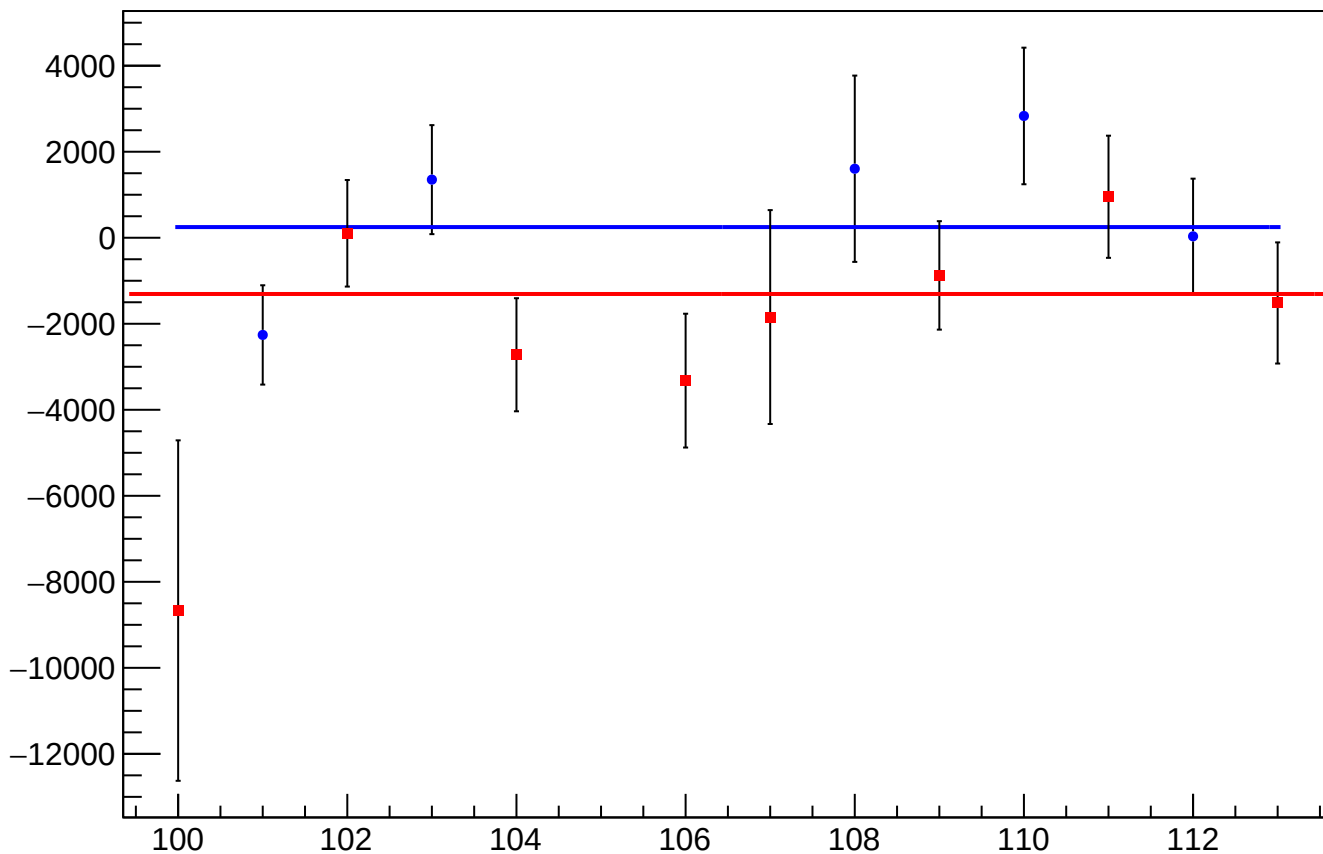
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 99.963 $\pm$ 0.030  $\chi^2$ /NDF: 177076.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_dd\_reg\_correction\_mean vs Slug



Right In: 248.215 $\pm$ 627.606  $\chi^2$ /NDF: 8.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1307.473 $\pm$ 534.677  $\chi^2$ /NDF: 10.3/7

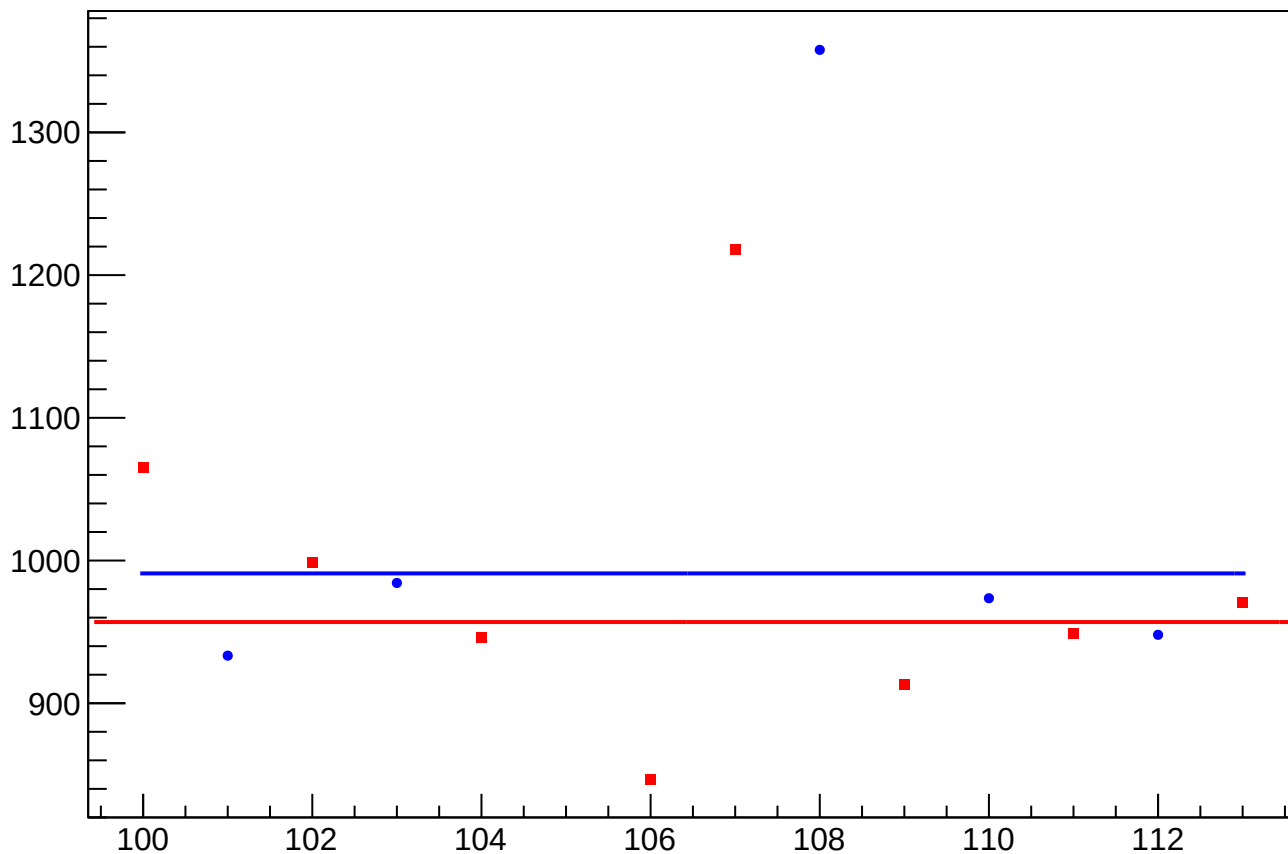
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -653.222 $\pm$ 407.003  $\chi^2$ /NDF: 22.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_dd\_reg\_correction\_rms vs Slug



Right In: 990.979+/-0.444  $\chi^2/\text{NDF}$ : 64718.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 956.906+/-0.378  $\chi^2/\text{NDF}$ : 38592.0/7

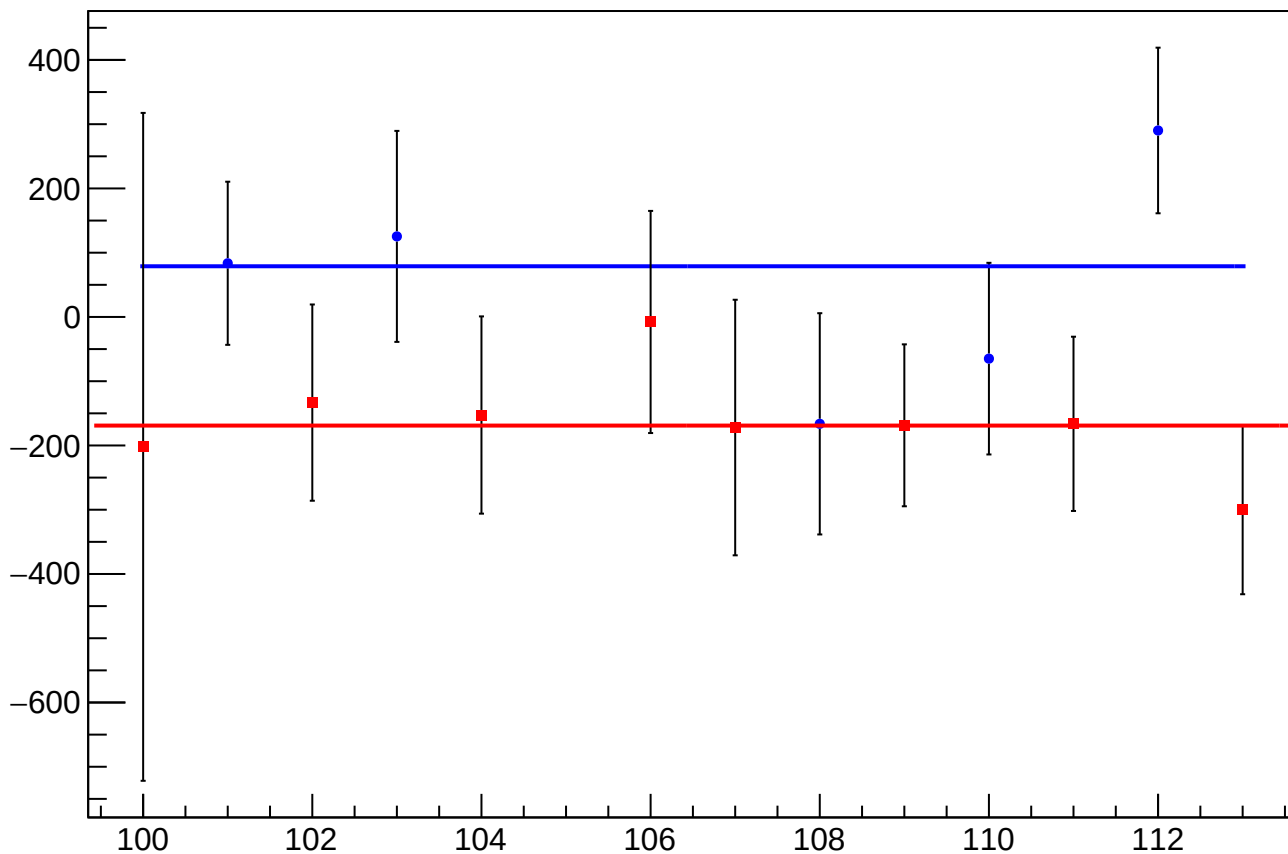
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 971.236+/-0.288  $\chi^2/\text{NDF}$ : 106725.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 78.886 $\pm$ 64.810  $\chi^2$ /NDF: 5.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -169.041 $\pm$ 55.630  $\chi^2$ /NDF: 1.9/7

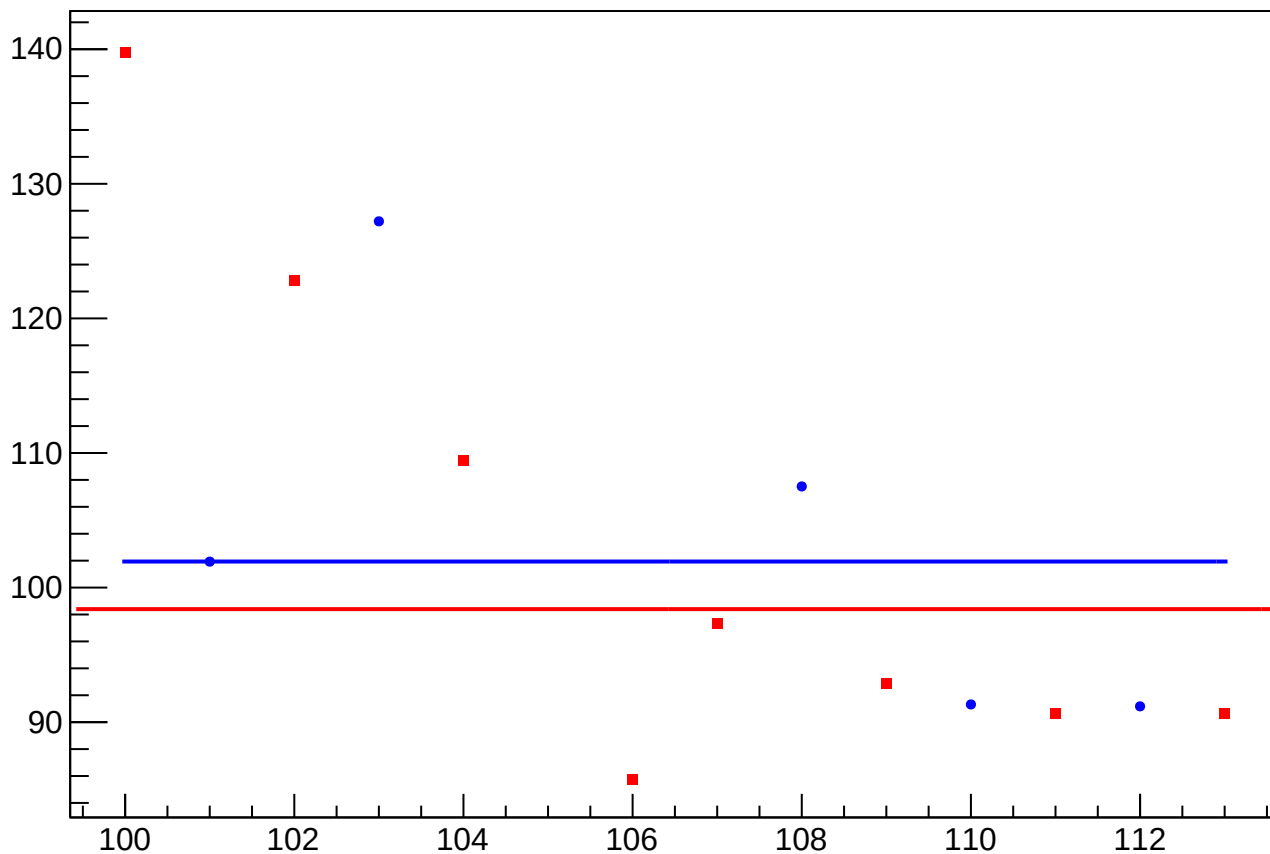
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -63.865 $\pm$ 42.212  $\chi^2$ /NDF: 16.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 101.936 $\pm$ 0.046  $\chi^2$ /NDF: 73588.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 98.399 $\pm$ 0.039  $\chi^2$ /NDF: 102249.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

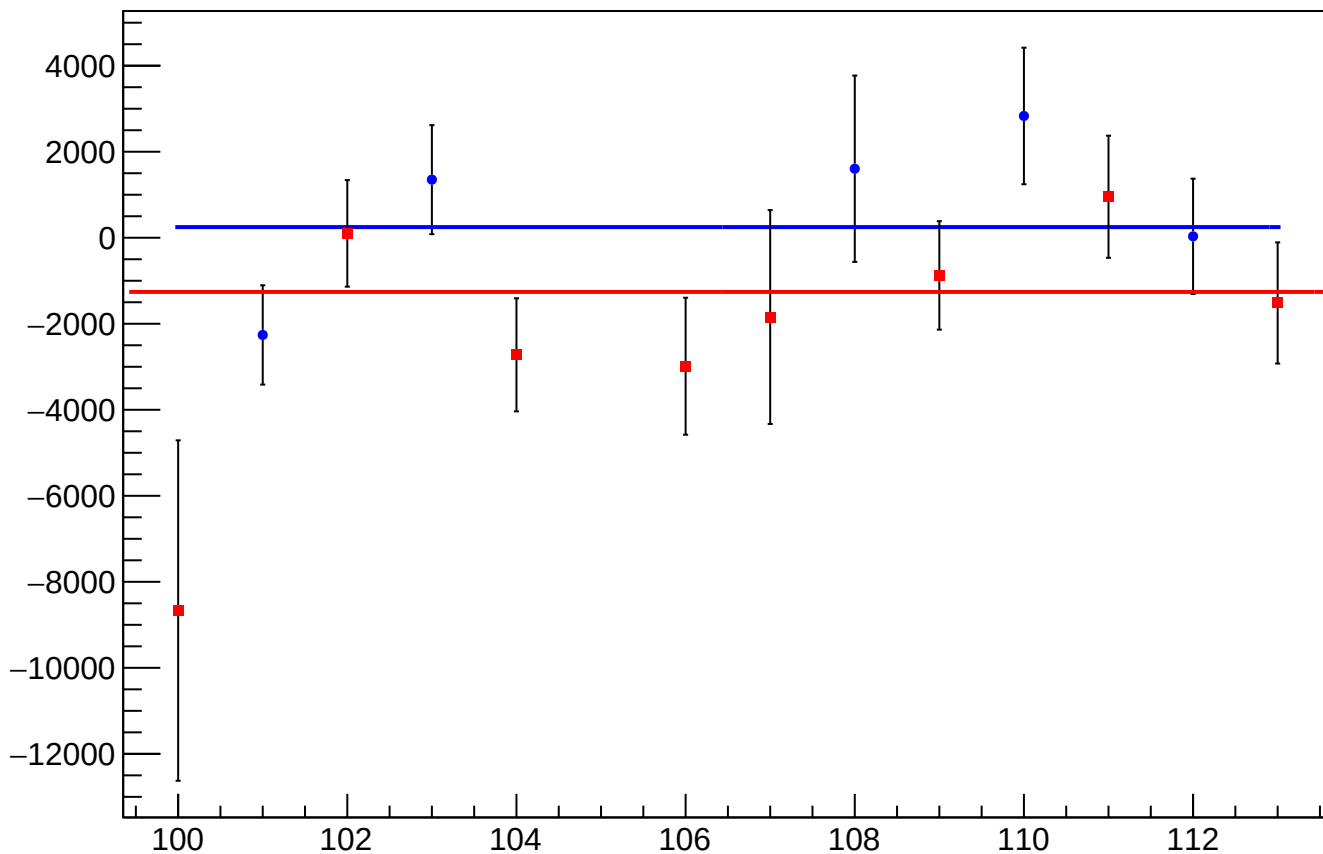
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 99.899 $\pm$ 0.030  $\chi^2$ /NDF: 179268.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_48\_dd\_cor\_correction\_mean vs Slug



Right In: 248.032±627.615  $\chi^2/\text{NDF}$ : 8.5/4

Left Out: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1259.318±536.164  $\chi^2/\text{NDF}$ : 9.7/7

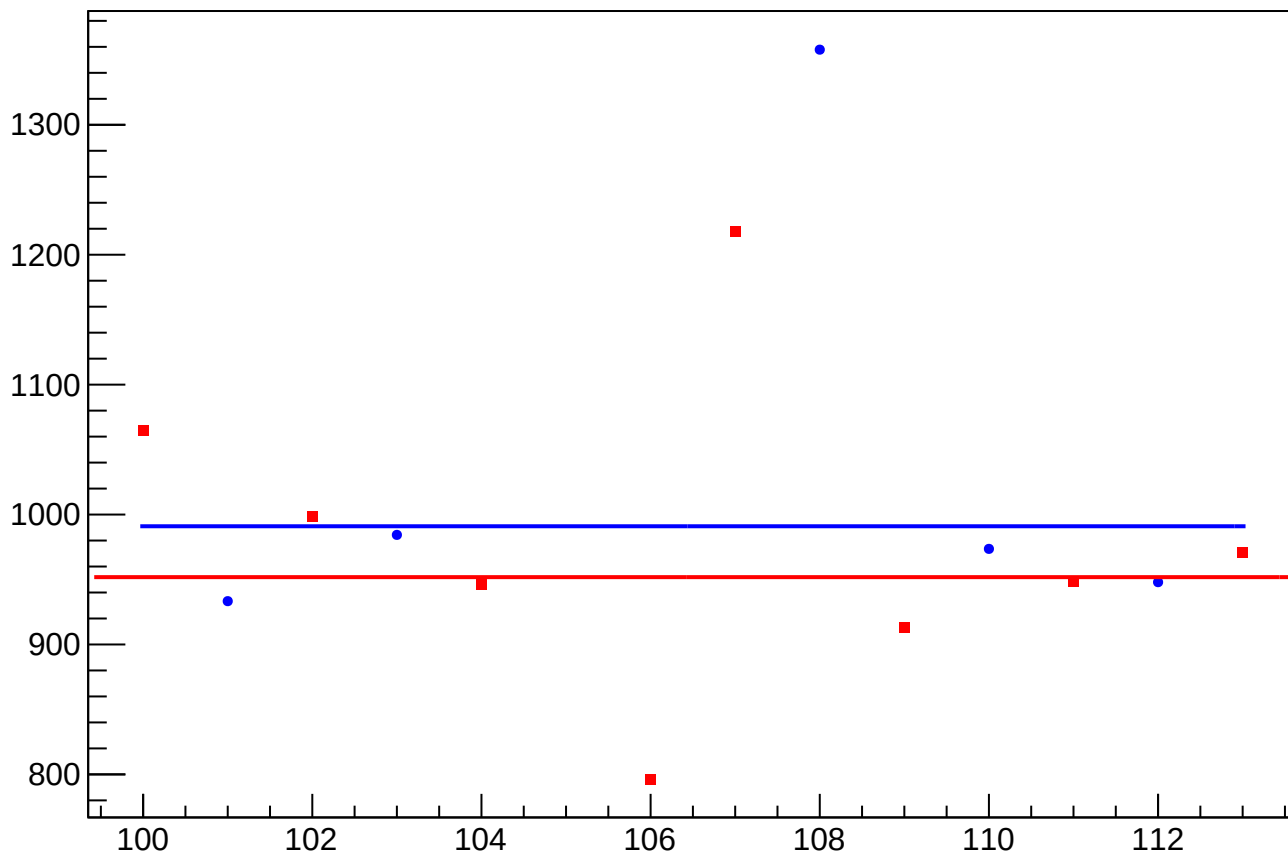
Left In: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -623.366±407.661  $\chi^2/\text{NDF}$ : 21.6/12

- sign 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_dd\_cor\_correction\_rms vs Slug



Right In: 990.994 $\pm$ 0.444  $\chi^2$ /NDF: 64717.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 951.832 $\pm$ 0.379  $\chi^2$ /NDF: 48783.3/7

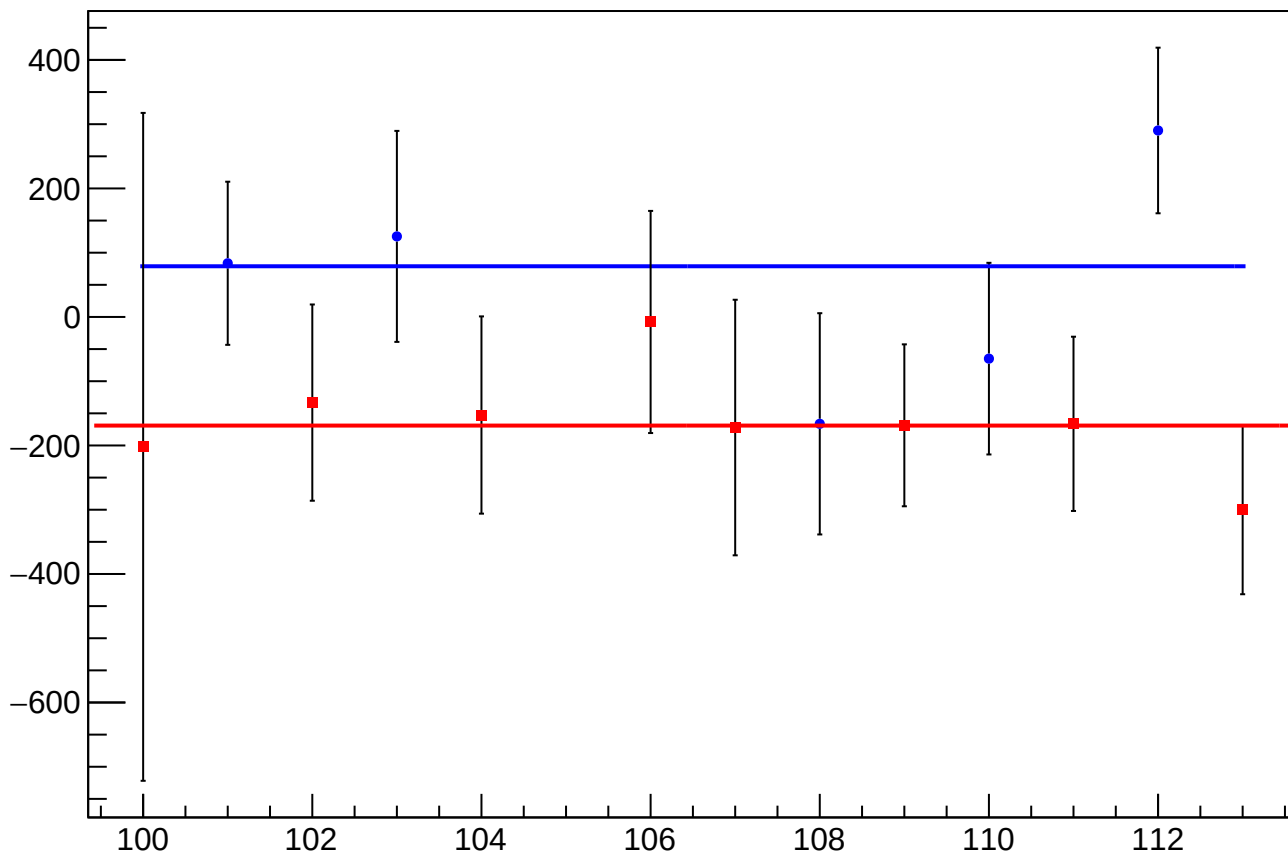
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 968.354 $\pm$ 0.288  $\chi^2$ /NDF: 118002.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_48\_dd\_mean vs Slug



Right In:  $78.886 \pm 64.810$   $\chi^2/\text{NDF}$ : 5.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-169.041 \pm 55.630$   $\chi^2/\text{NDF}$ : 1.9/7

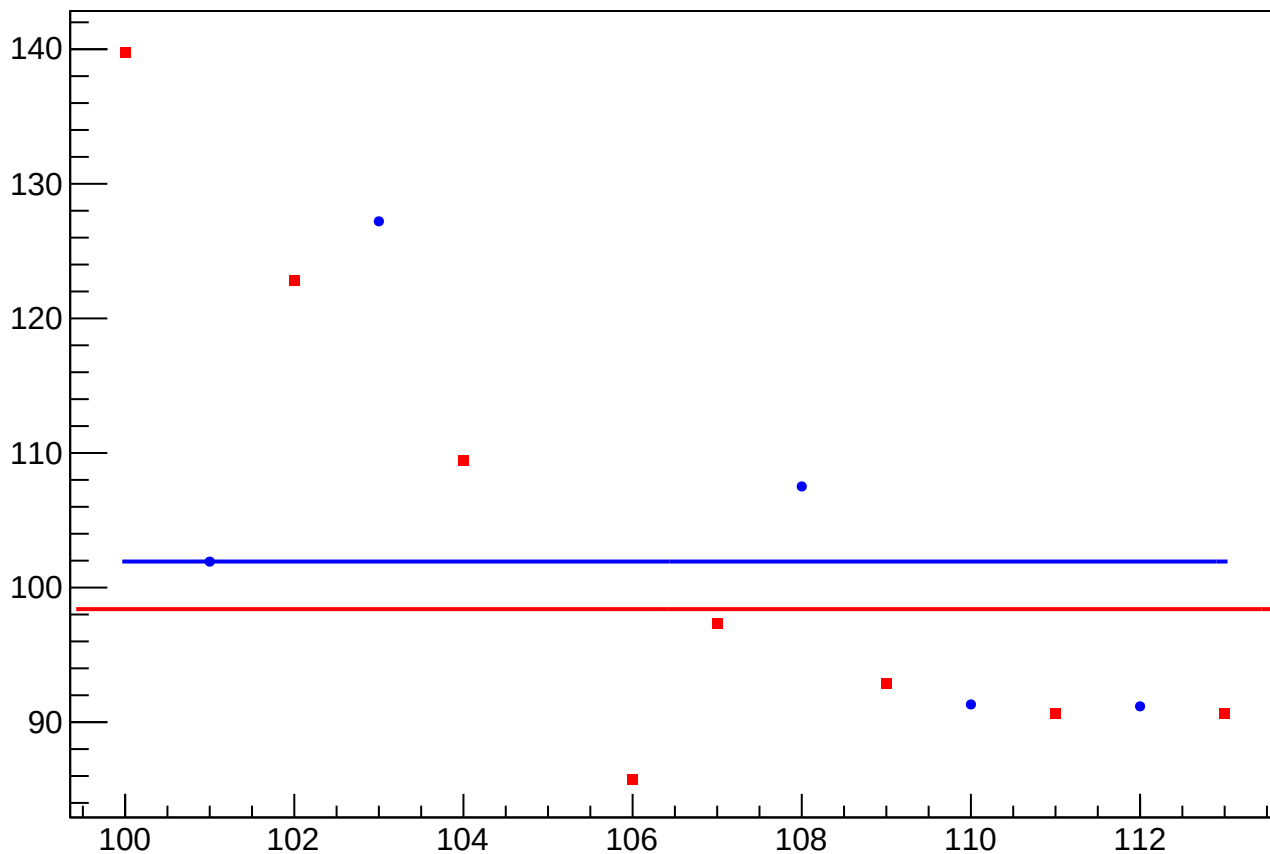
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-63.865 \pm 42.212$   $\chi^2/\text{NDF}$ : 16.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 101.936 $\pm$ 0.046  $\chi^2$ /NDF: 73588.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 98.399 $\pm$ 0.039  $\chi^2$ /NDF: 102249.5/7

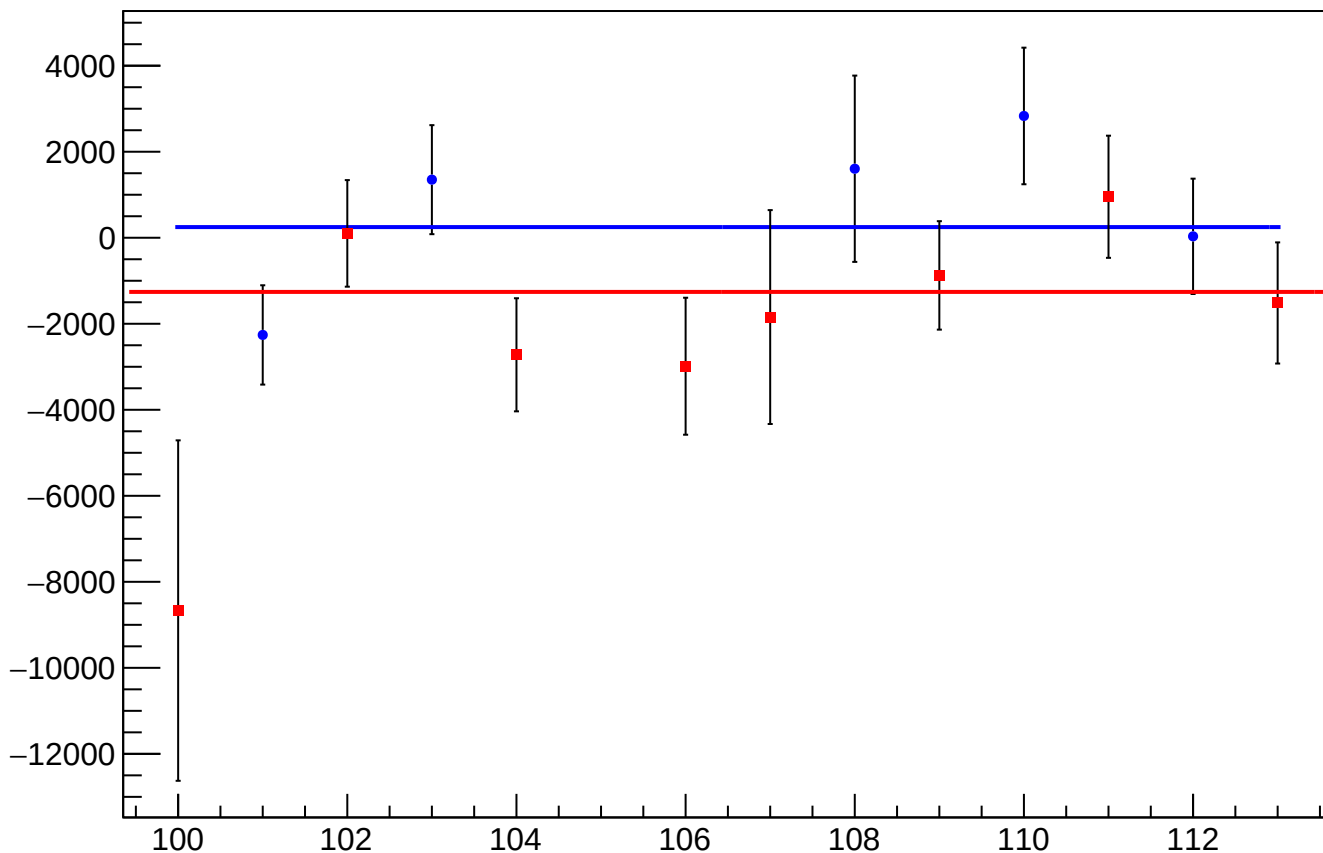
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 99.899 $\pm$ 0.030  $\chi^2$ /NDF: 179268.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 248.032 $\pm$ 627.615  $\chi^2$ /NDF: 8.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1259.318 $\pm$ 536.164  $\chi^2$ /NDF: 9.7/7

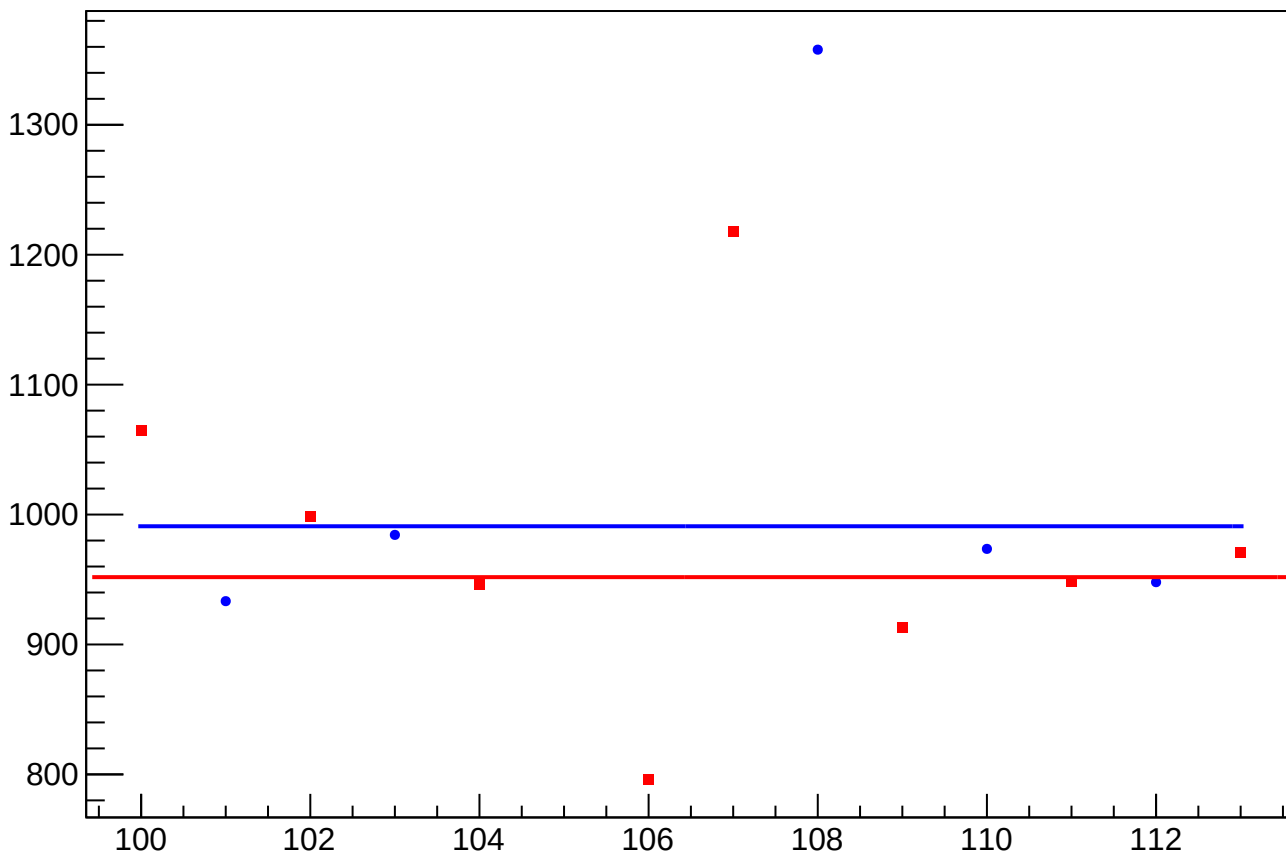
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -623.366 $\pm$ 407.661  $\chi^2$ /NDF: 21.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 990.994 $\pm$ 0.444  $\chi^2$ /NDF: 64717.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 951.832 $\pm$ 0.379  $\chi^2$ /NDF: 48783.3/7

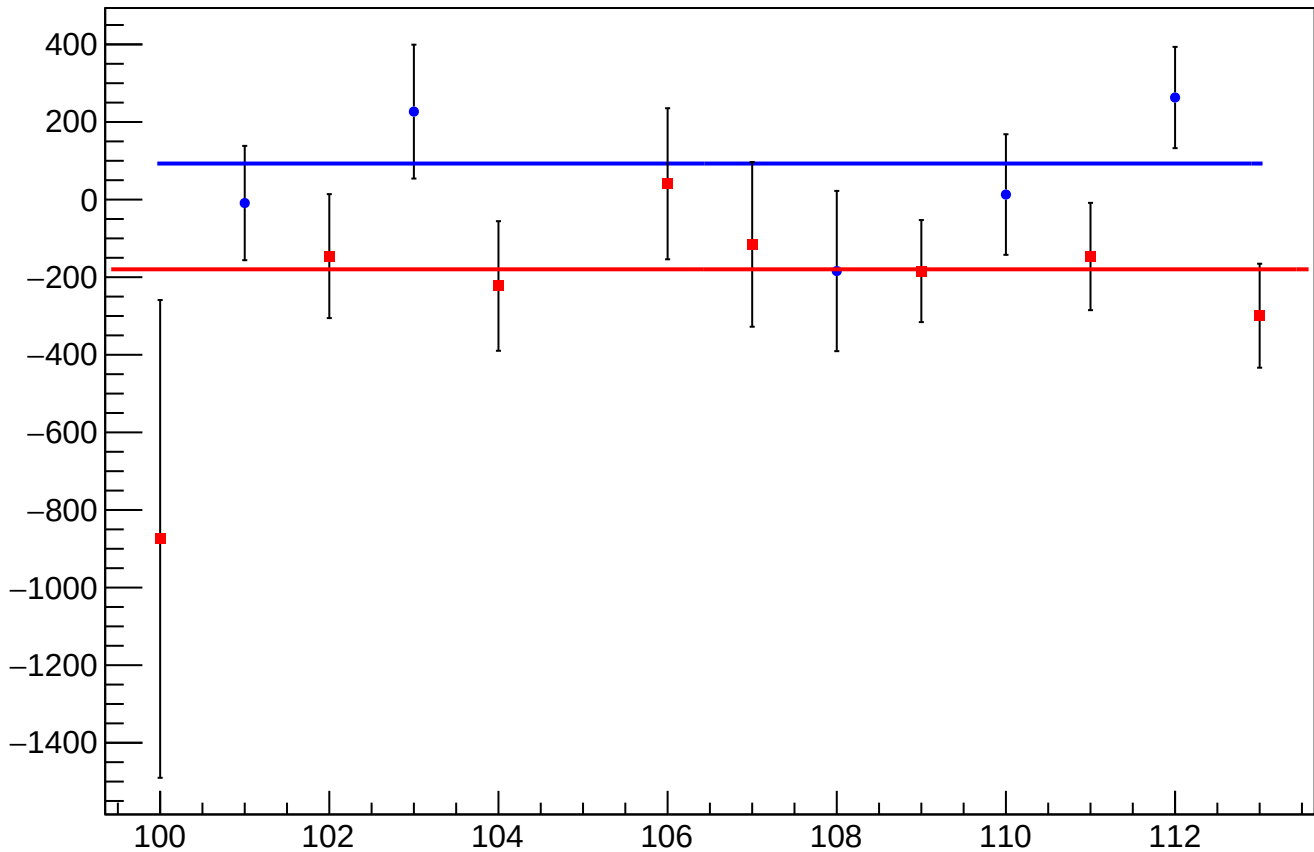
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 968.354 $\pm$ 0.288  $\chi^2$ /NDF: 118002.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 92.924+/-70.146  $\chi^2/\text{NDF}$ : 4.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -179.659+/-58.514  $\chi^2/\text{NDF}$ : 3.6/7

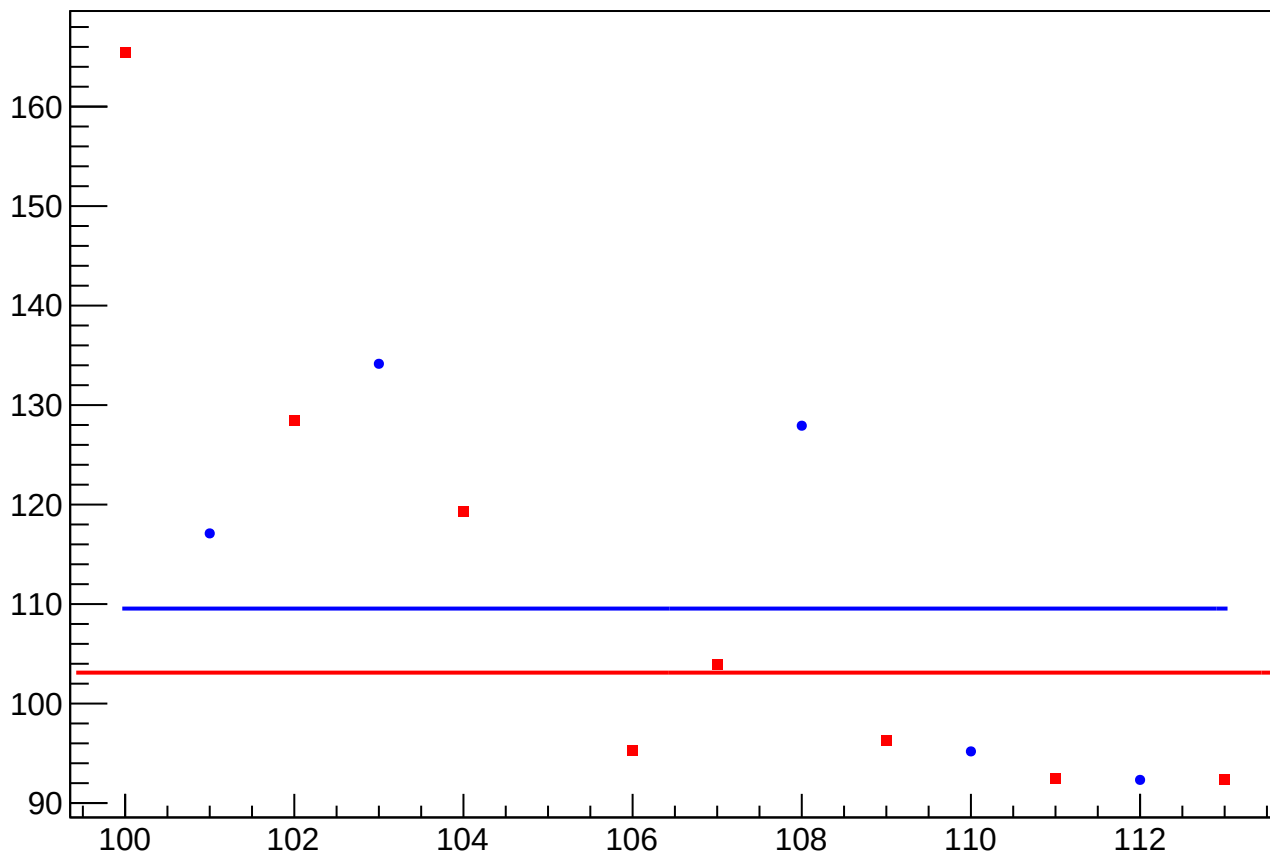
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -67.812+/-44.933  $\chi^2/\text{NDF}$ : 17.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 109.548 $\pm$ 0.050  $\chi^2$ /NDF: 113646.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.109 $\pm$ 0.041  $\chi^2$ /NDF: 122901.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

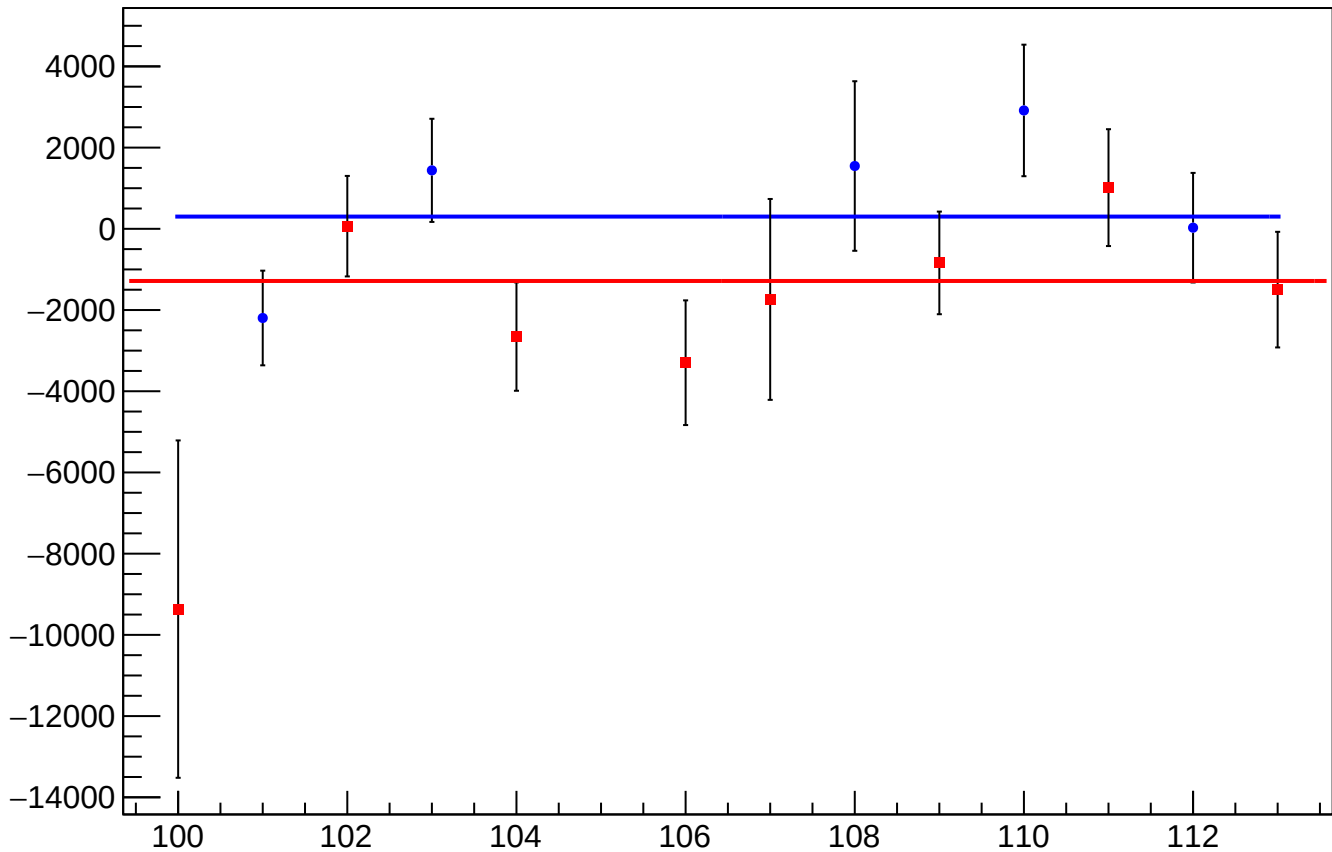
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 105.751 $\pm$ 0.032  $\chi^2$ /NDF: 246485.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_48\_dd\_dit\_correction\_mean vs Slug



Right In: 301.248 $\pm$ 630.497  $\chi^2$ /NDF: 8.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1284.522 $\pm$ 537.406  $\chi^2$ /NDF: 10.5/7

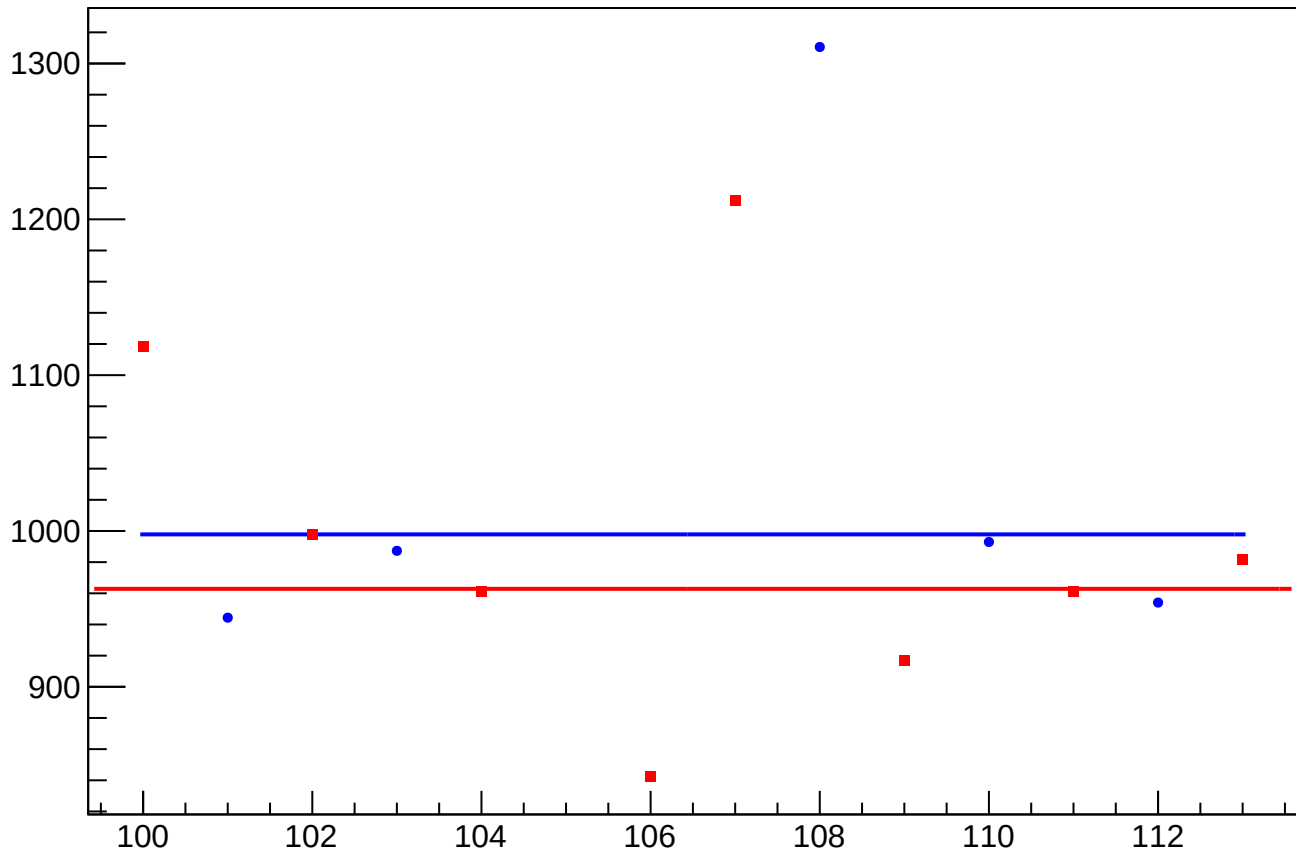
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -617.238 $\pm$ 408.995  $\chi^2$ /NDF: 22.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_dd\_dit\_correction\_rms vs Slug



Right In: 997.812 $\pm$ 0.446  $\chi^2$ /NDF: 51350.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 962.874 $\pm$ 0.380  $\chi^2$ /NDF: 39955.8/7

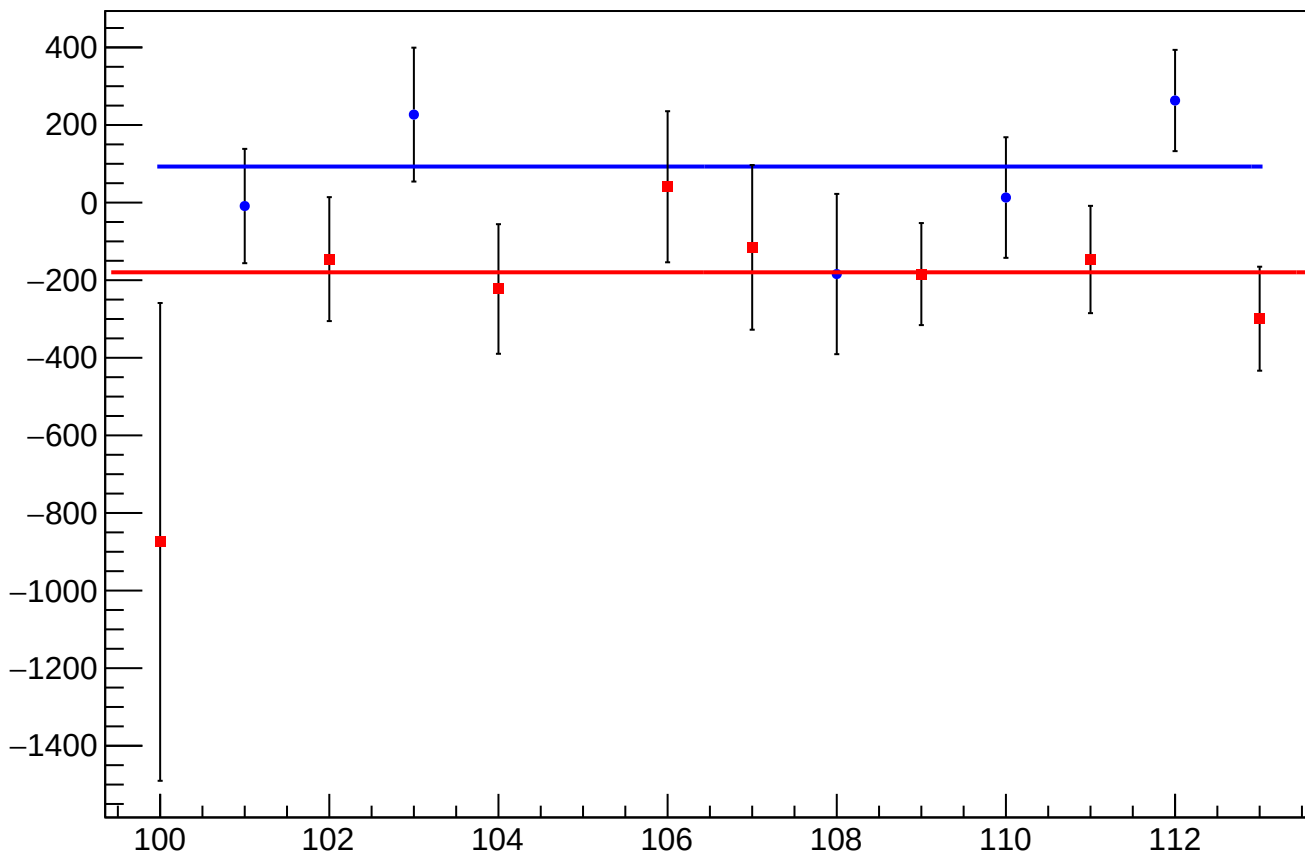
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 977.576 $\pm$ 0.289  $\chi^2$ /NDF: 94863.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 92.923+/-70.146  $\chi^2/\text{NDF}$ : 4.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -179.659+/-58.514  $\chi^2/\text{NDF}$ : 3.6/7

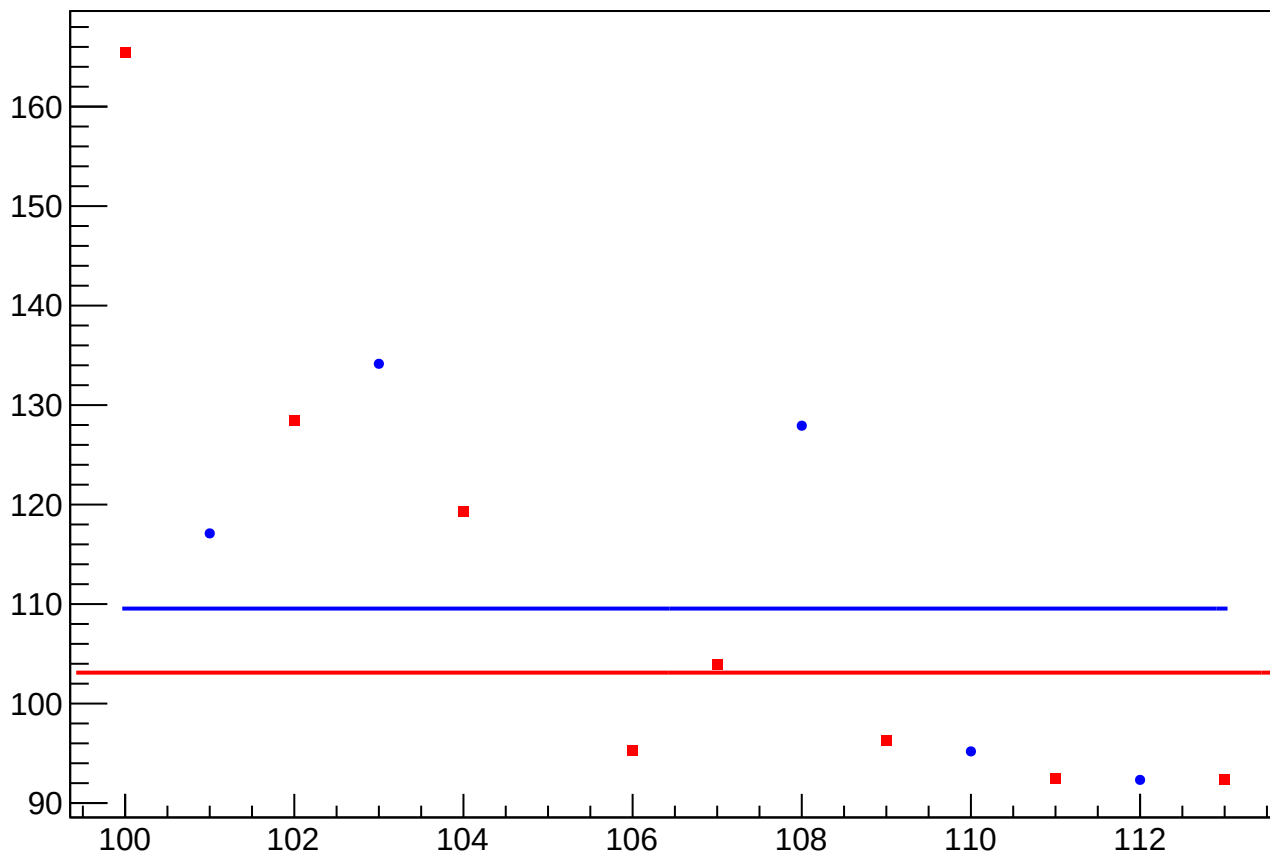
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -67.812+/-44.933  $\chi^2/\text{NDF}$ : 17.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 109.548 $\pm$ 0.050  $\chi^2$ /NDF: 113649.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.109 $\pm$ 0.041  $\chi^2$ /NDF: 122902.3/7

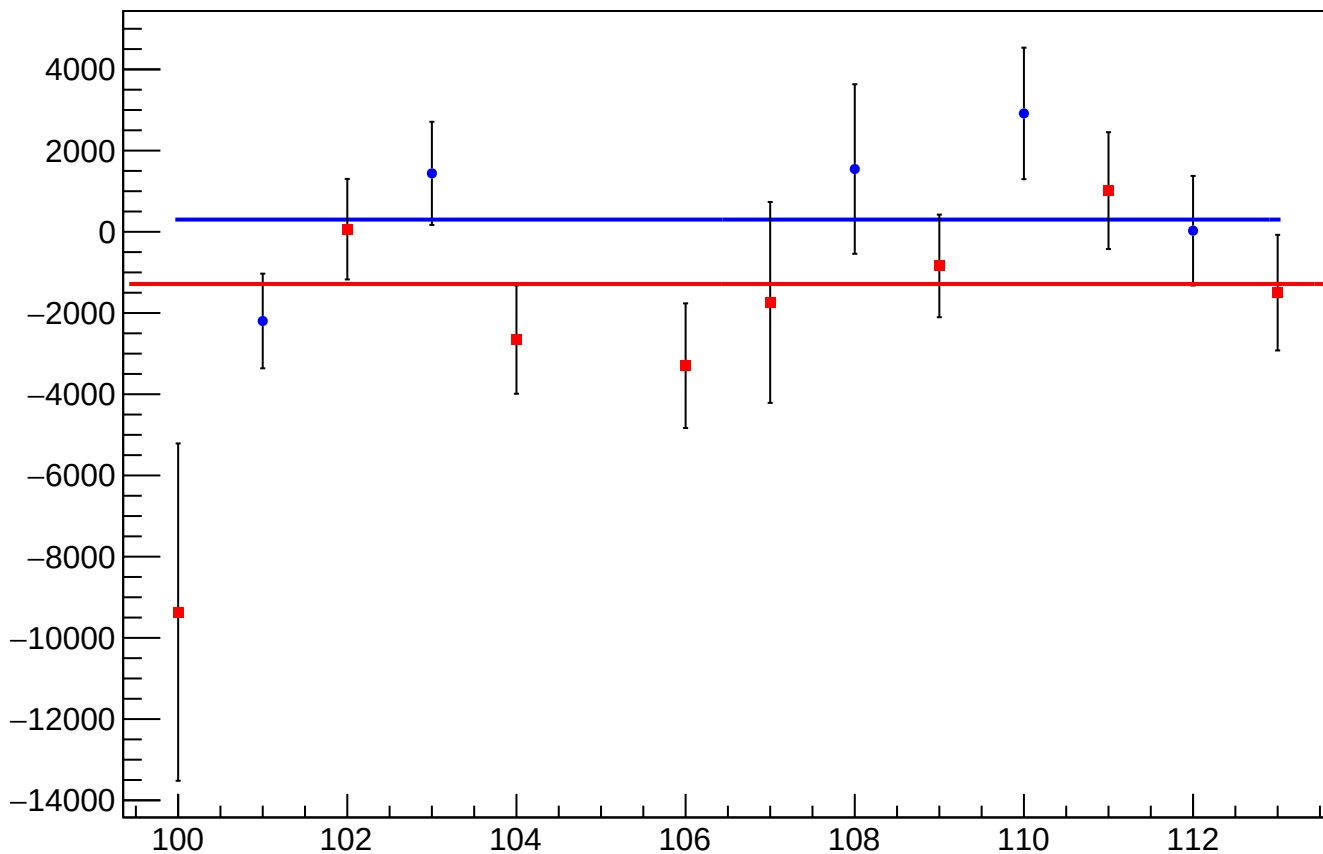
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 105.751 $\pm$ 0.032  $\chi^2$ /NDF: 246489.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 301.249+/-630.497  $\chi^2$ /NDF: 8.4/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1284.521+/-537.406  $\chi^2$ /NDF: 10.5/7

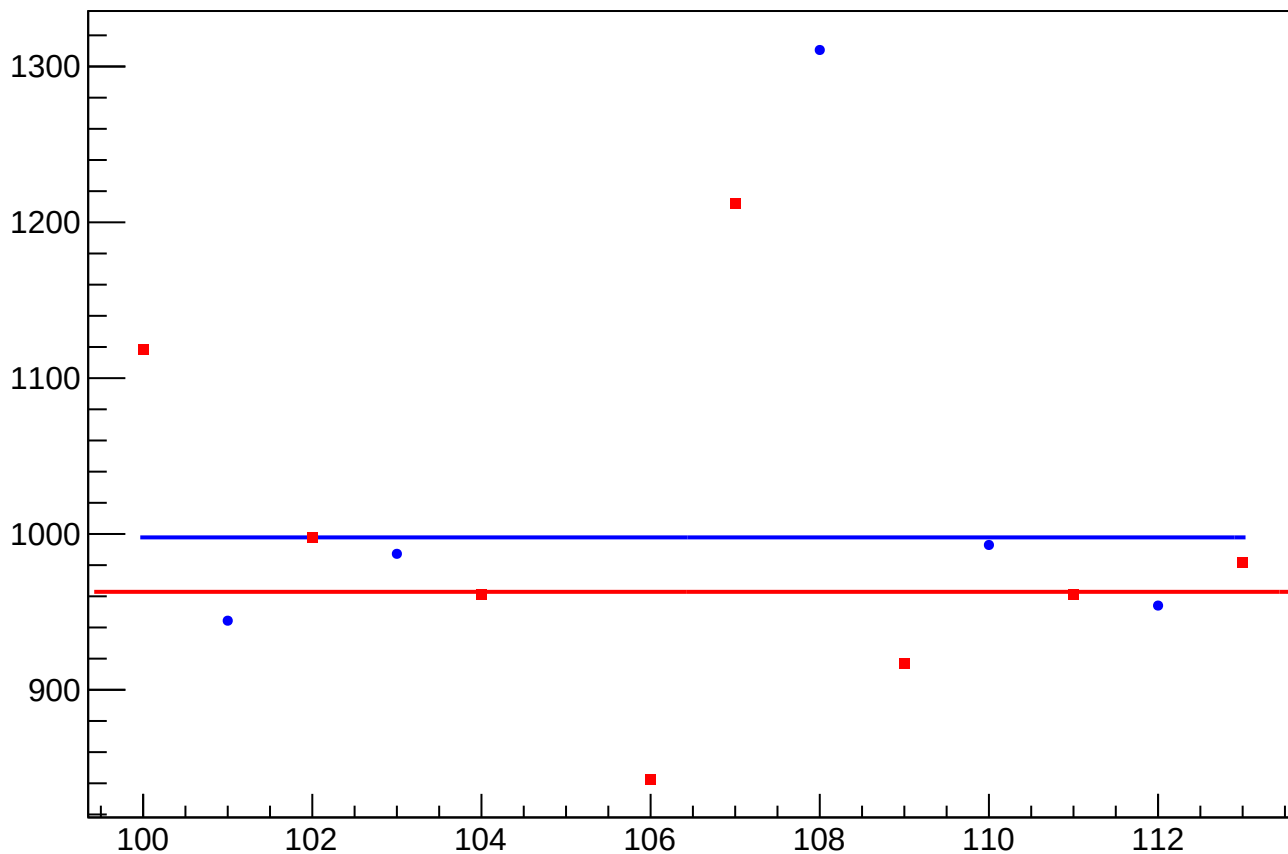
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -617.237+/-408.995  $\chi^2$ /NDF: 22.5/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 997.813 $\pm$ 0.446  $\chi^2$ /NDF: 51349.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 962.874 $\pm$ 0.380  $\chi^2$ /NDF: 39956.3/7

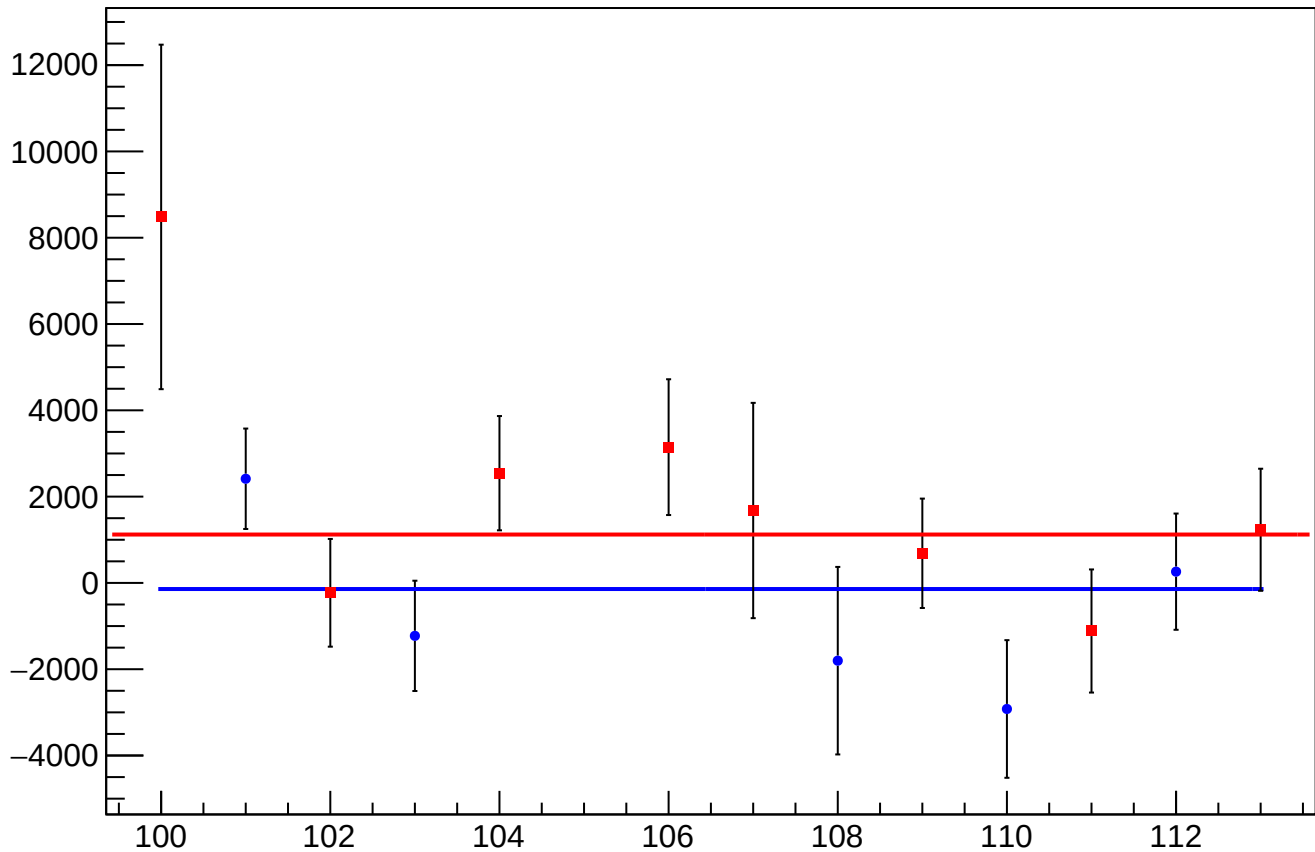
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 977.576 $\pm$ 0.289  $\chi^2$ /NDF: 94863.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_dd\_mean vs Slug



Right In: -141.624+/-631.591  $\chi^2/\text{NDF}$ : 9.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1121.275+/-538.164  $\chi^2/\text{NDF}$ : 10.0/7

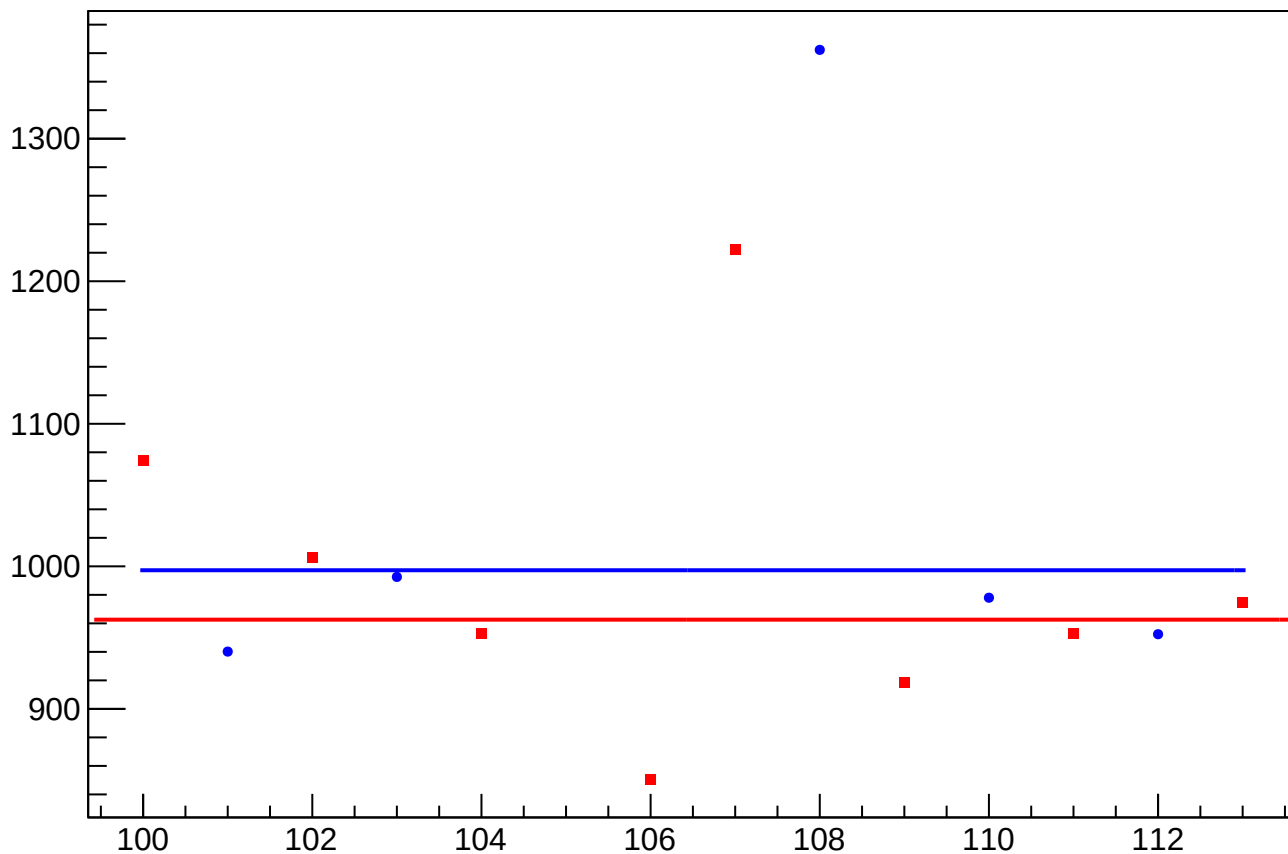
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 590.053+/-409.628  $\chi^2/\text{NDF}$ : 21.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_dd\_rms vs Slug



Right In: 997.260 $\pm$ 0.447  $\chi^2$ /NDF: 63794.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 962.596 $\pm$ 0.381  $\chi^2$ /NDF: 38498.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

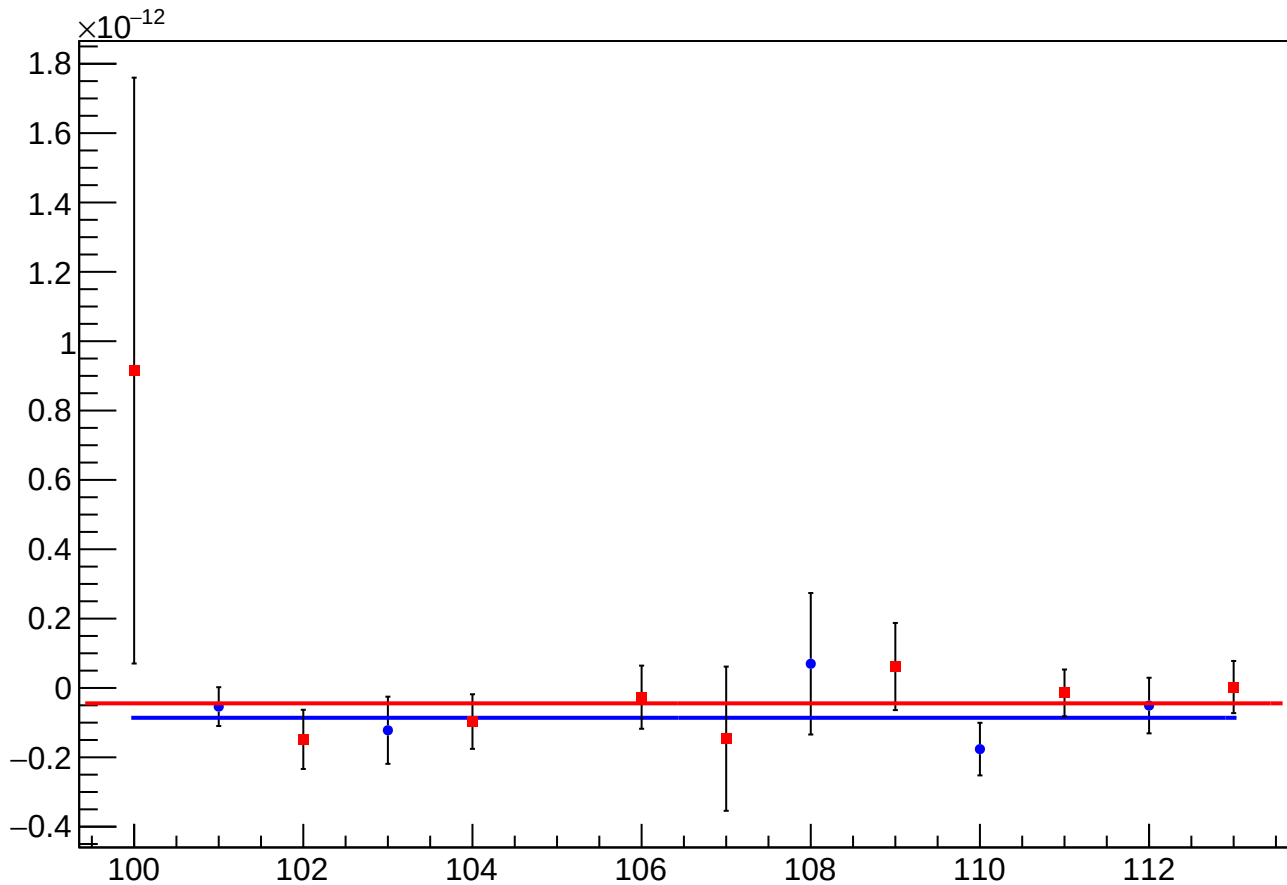
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 977.177 $\pm$ 0.290  $\chi^2$ /NDF: 105783.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_48\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.8/7

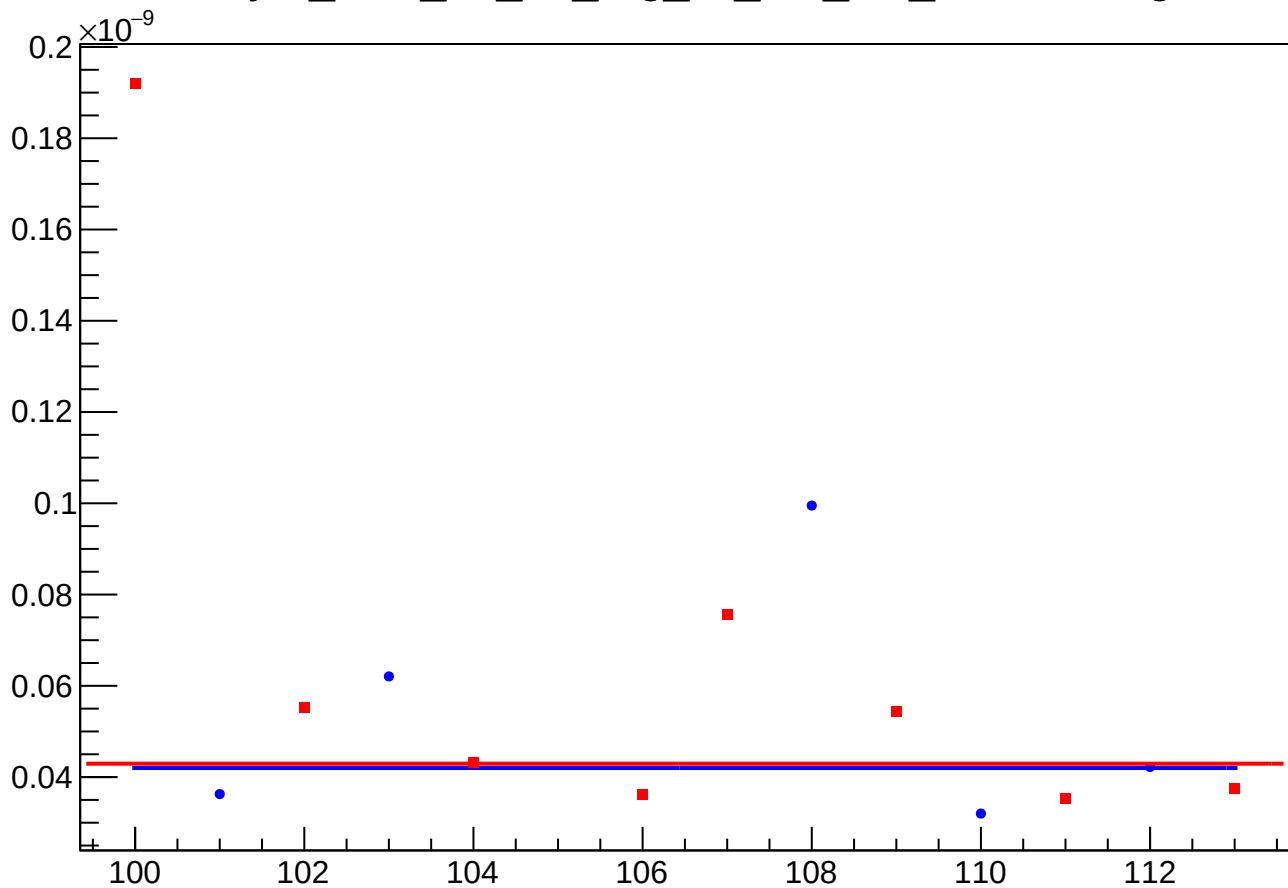
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 300305.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 216210.8/7

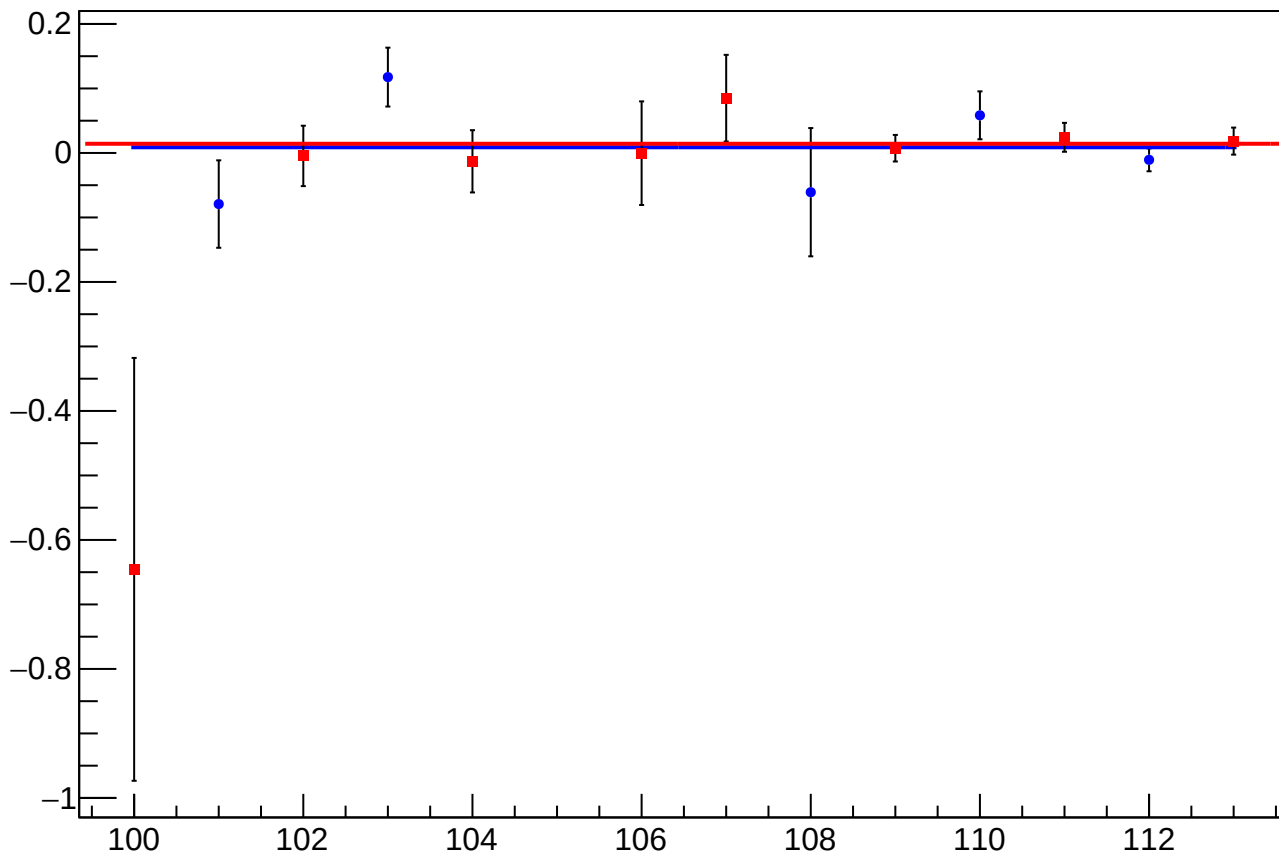
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 517268.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.015     $\chi^2$ /NDF: 10.8/4

Left Out: 0.000 $\pm$ 0.000     $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.011     $\chi^2$ /NDF: 6.0/7

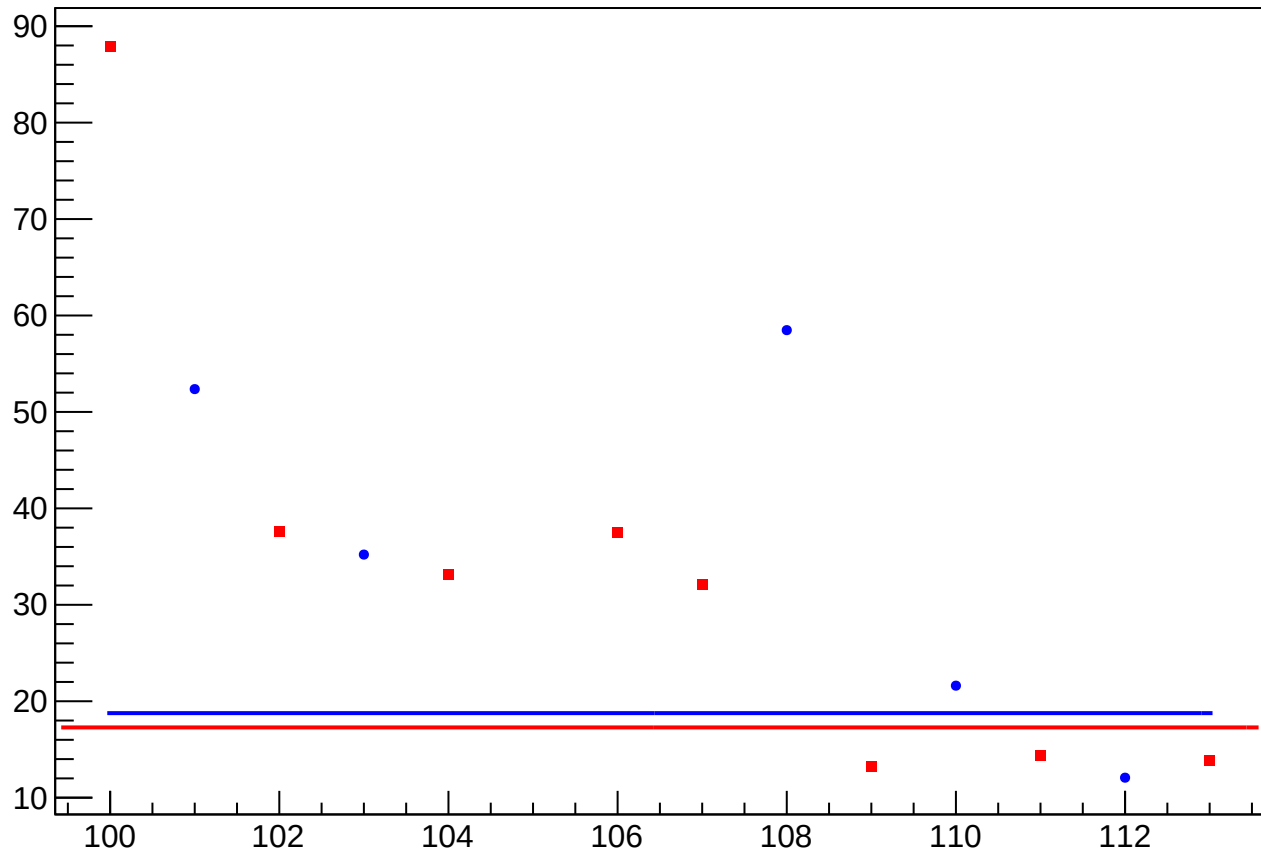
Left In: 0.000 $\pm$ 0.000     $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000     $\chi^2$ /NDF: 0.0/0

All: 0.012 $\pm$ 0.009     $\chi^2$ /NDF: 17.0/12

- sign 0.000 $\pm$ 0.000     $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 18.767 $\pm$ 0.010  $\chi^2$ /NDF: 1366803.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.285 $\pm$ 0.008  $\chi^2$ /NDF: 1074518.3/7

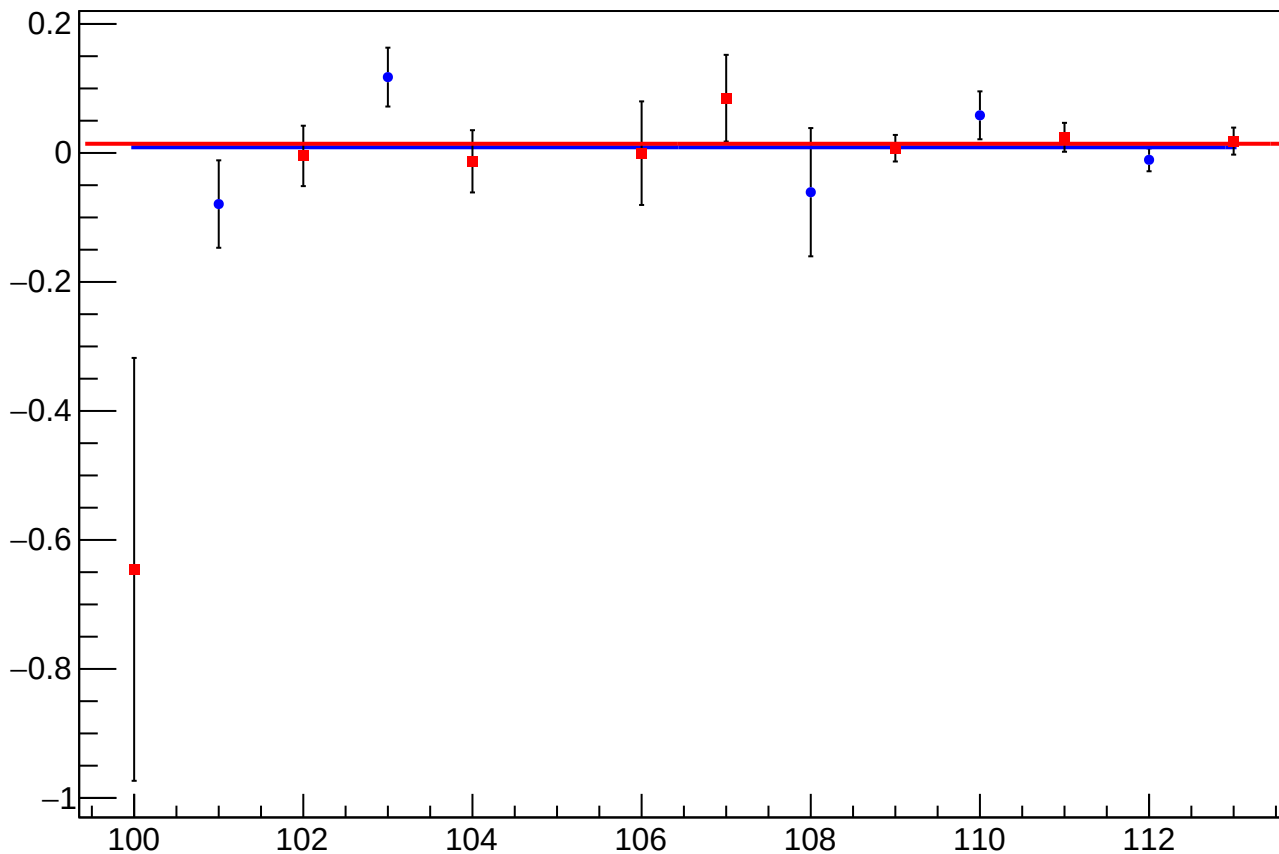
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.838 $\pm$ 0.006  $\chi^2$ /NDF: 2454270.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.015  $\chi^2$ /NDF: 10.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.011  $\chi^2$ /NDF: 6.0/7

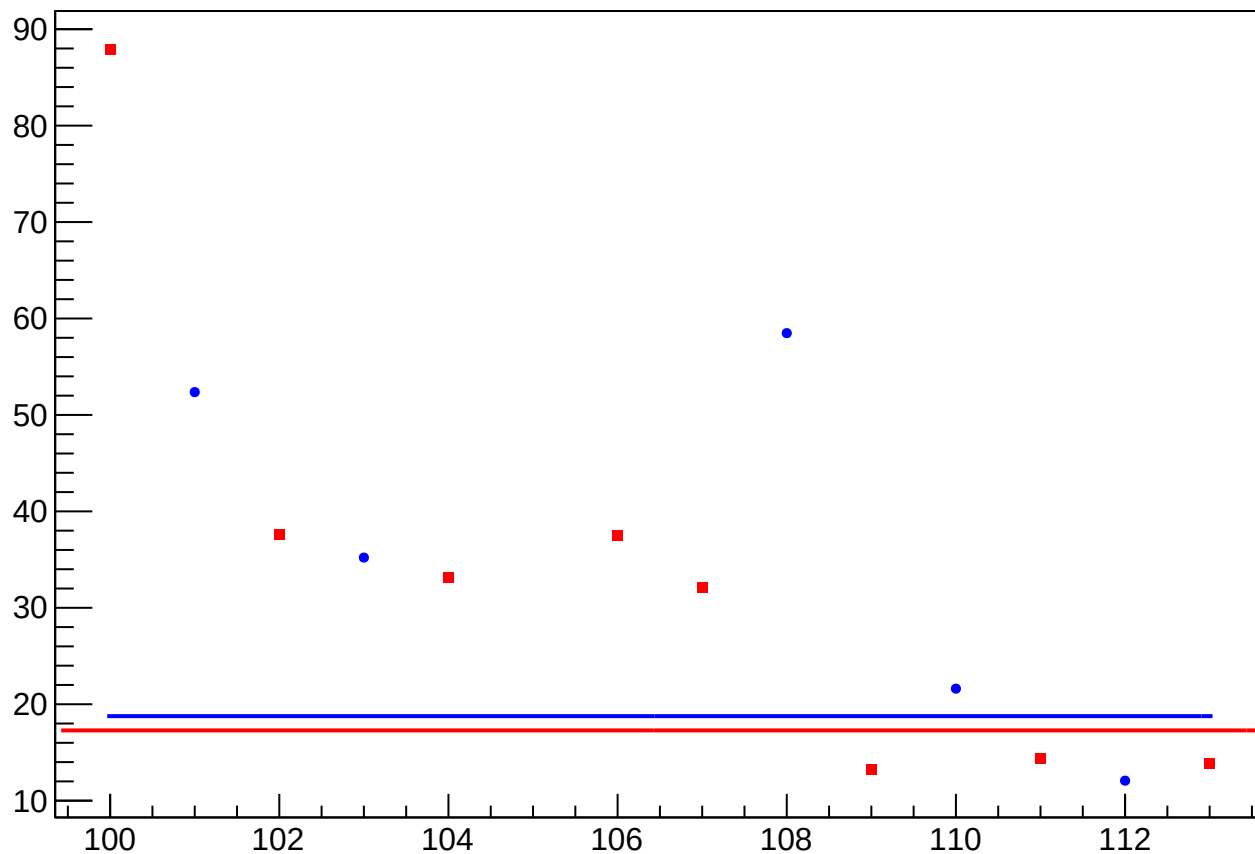
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.012 $\pm$ 0.009  $\chi^2$ /NDF: 17.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 18.767 $\pm$ 0.010  $\chi^2$ /NDF: 1366803.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.285 $\pm$ 0.008  $\chi^2$ /NDF: 1074518.3/7

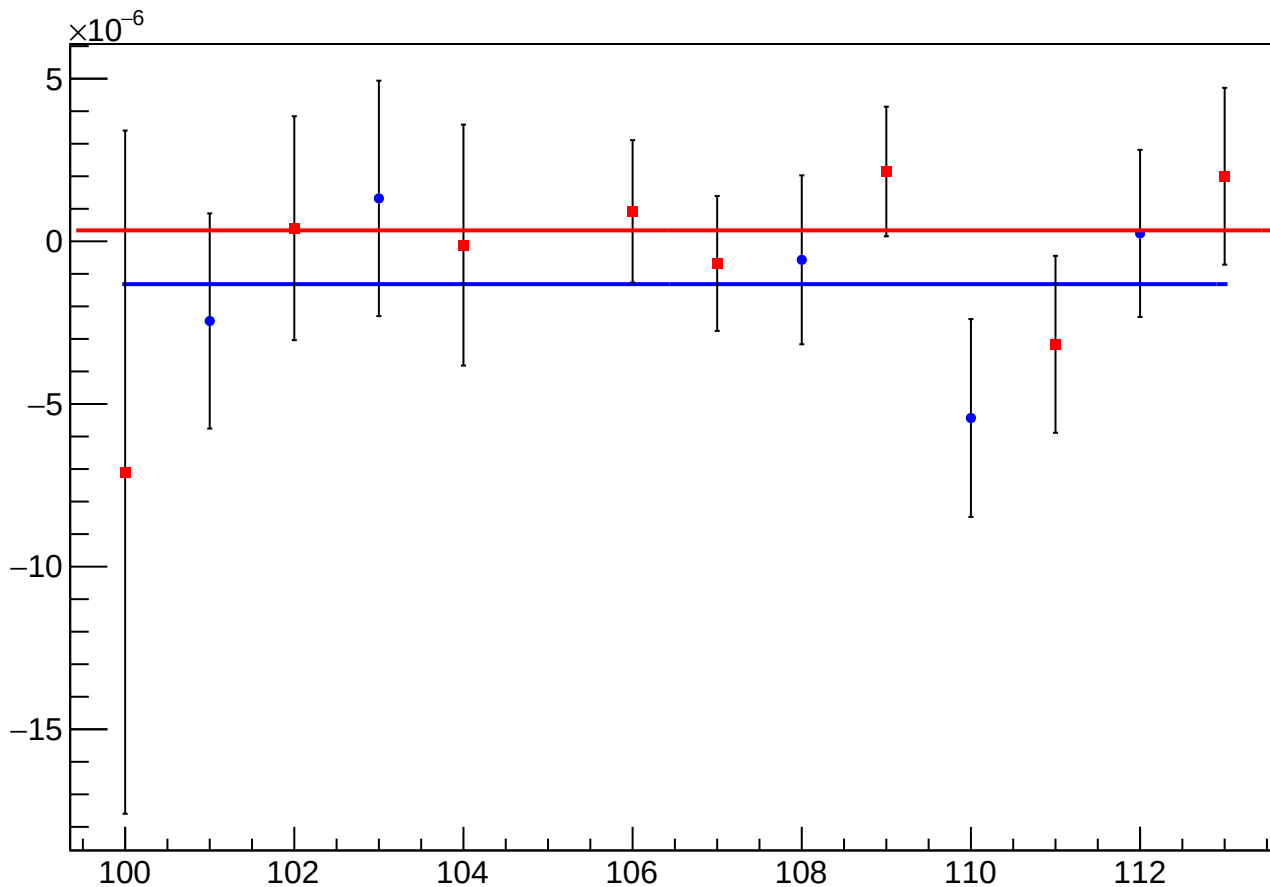
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.838 $\pm$ 0.006  $\chi^2$ /NDF: 2454270.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000±/-0.000  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000±/-0.000  $\chi^2$ /NDF: 3.7/7

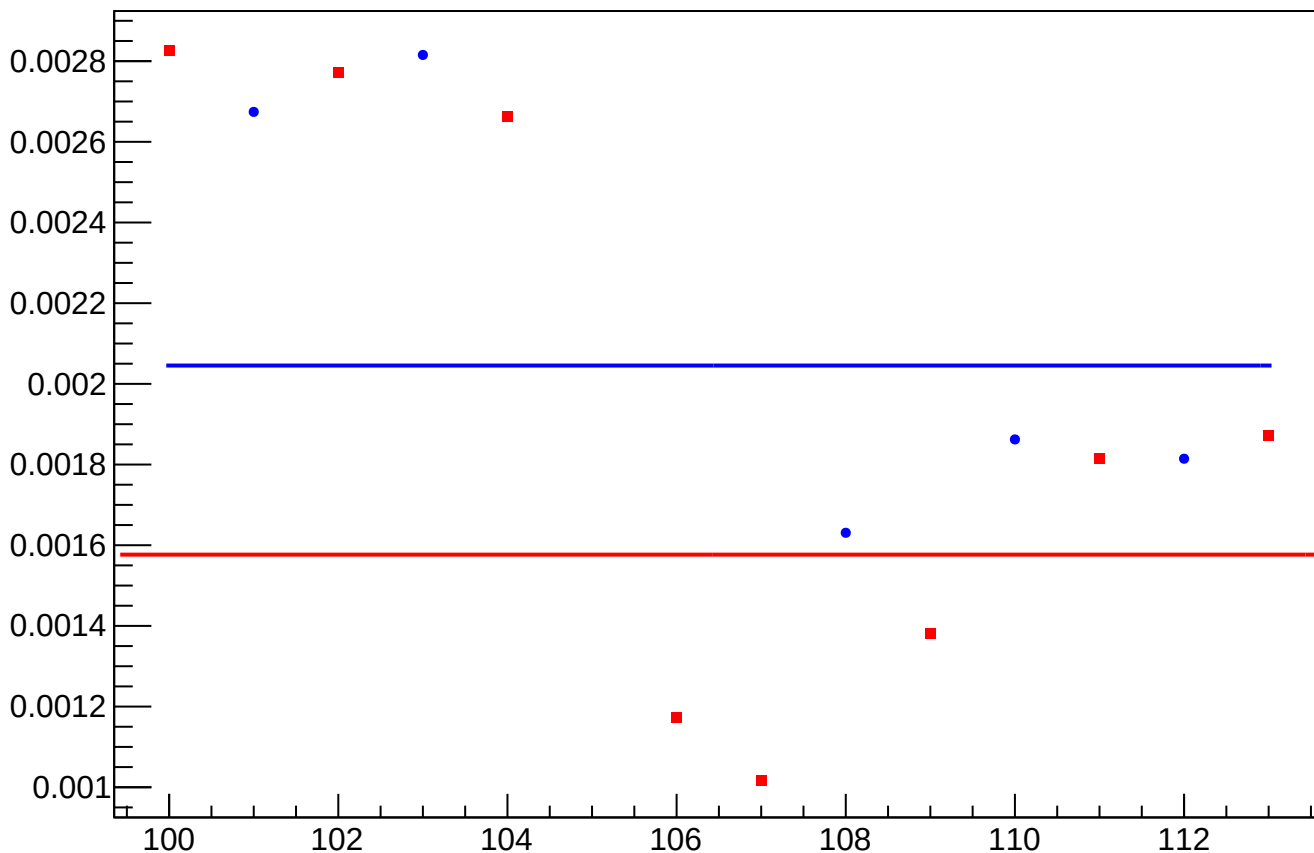
Left In: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000±/-0.000  $\chi^2$ /NDF: 7.7/12

- sign 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 237247.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 713205.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

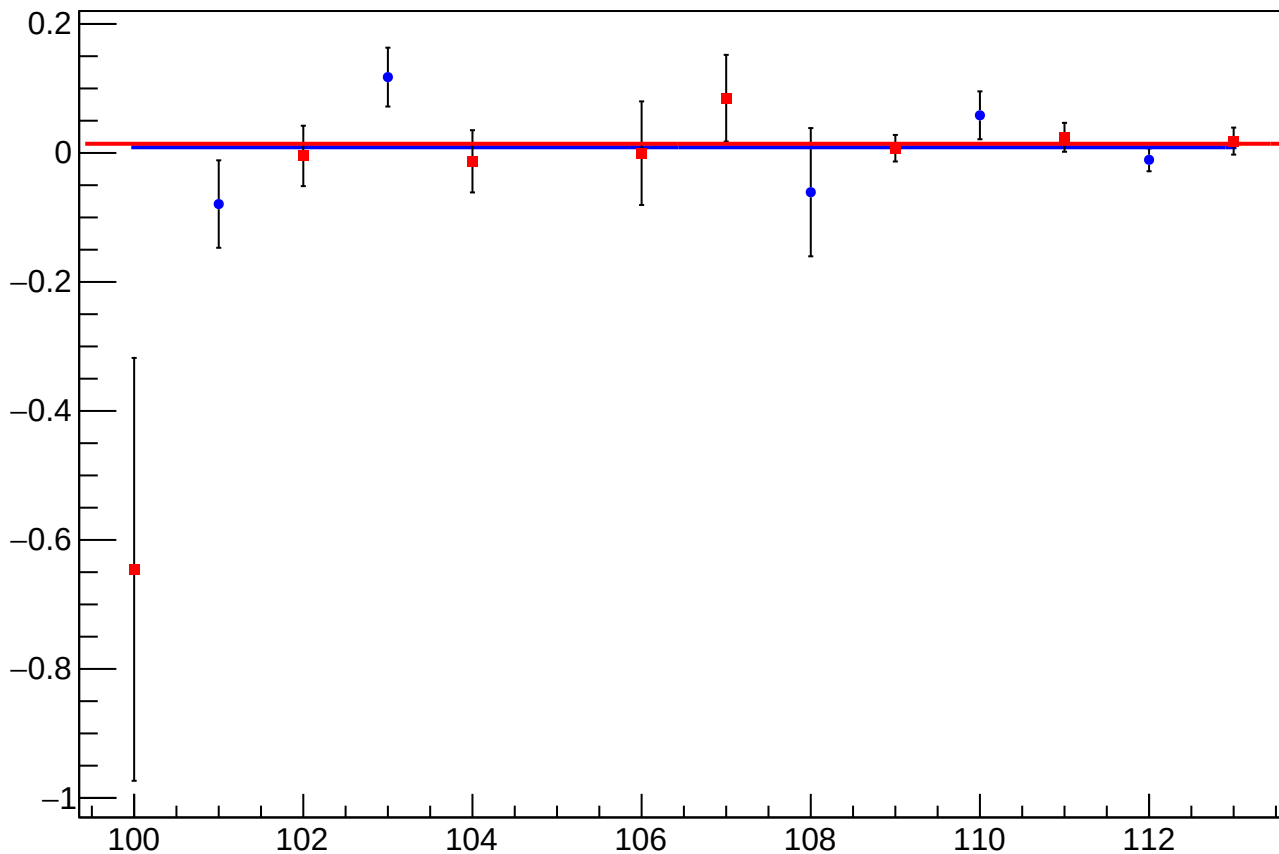
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1118115.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.015  $\chi^2$ /NDF: 10.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.011  $\chi^2$ /NDF: 6.0/7

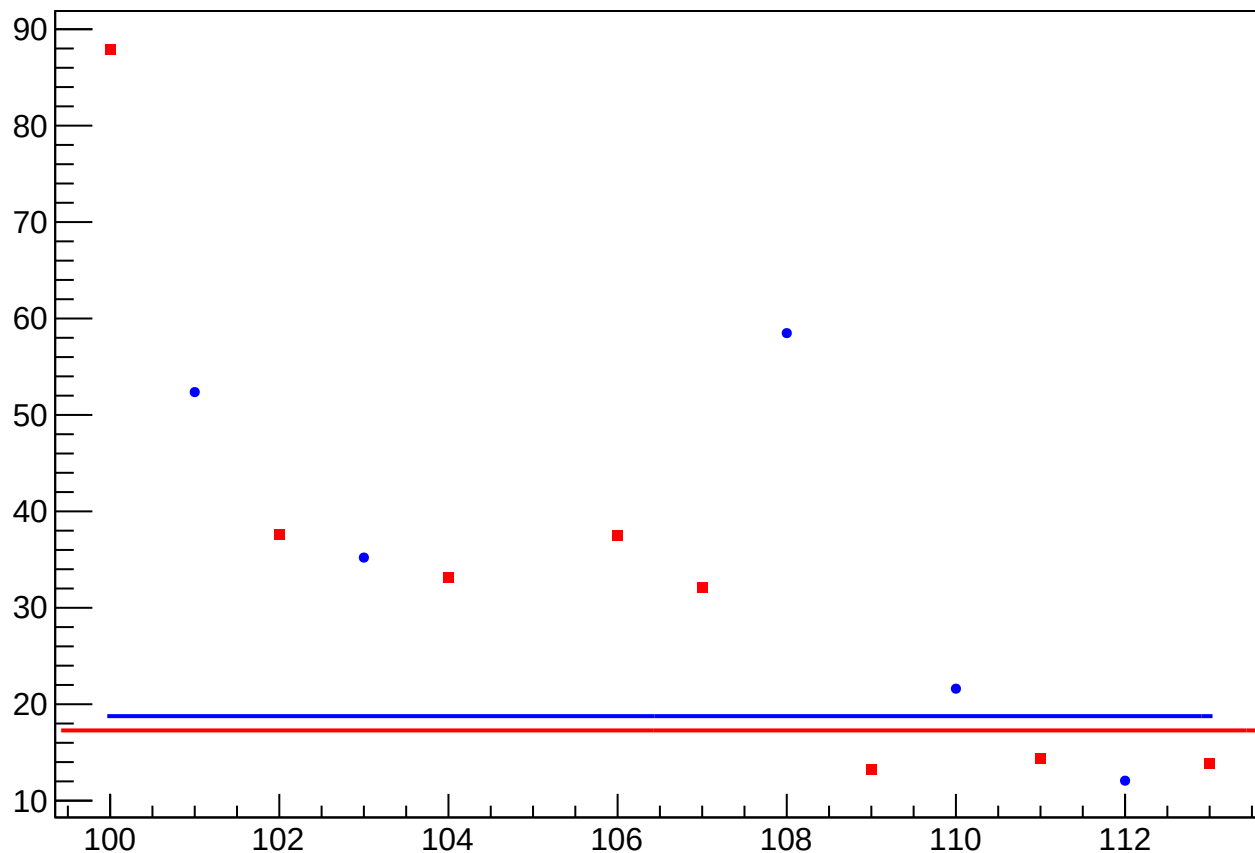
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.012 $\pm$ 0.009  $\chi^2$ /NDF: 17.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 18.765+/-0.010  $\chi^2/\text{NDF}$ : 1366936.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.285+/-0.008  $\chi^2/\text{NDF}$ : 1074514.0/7

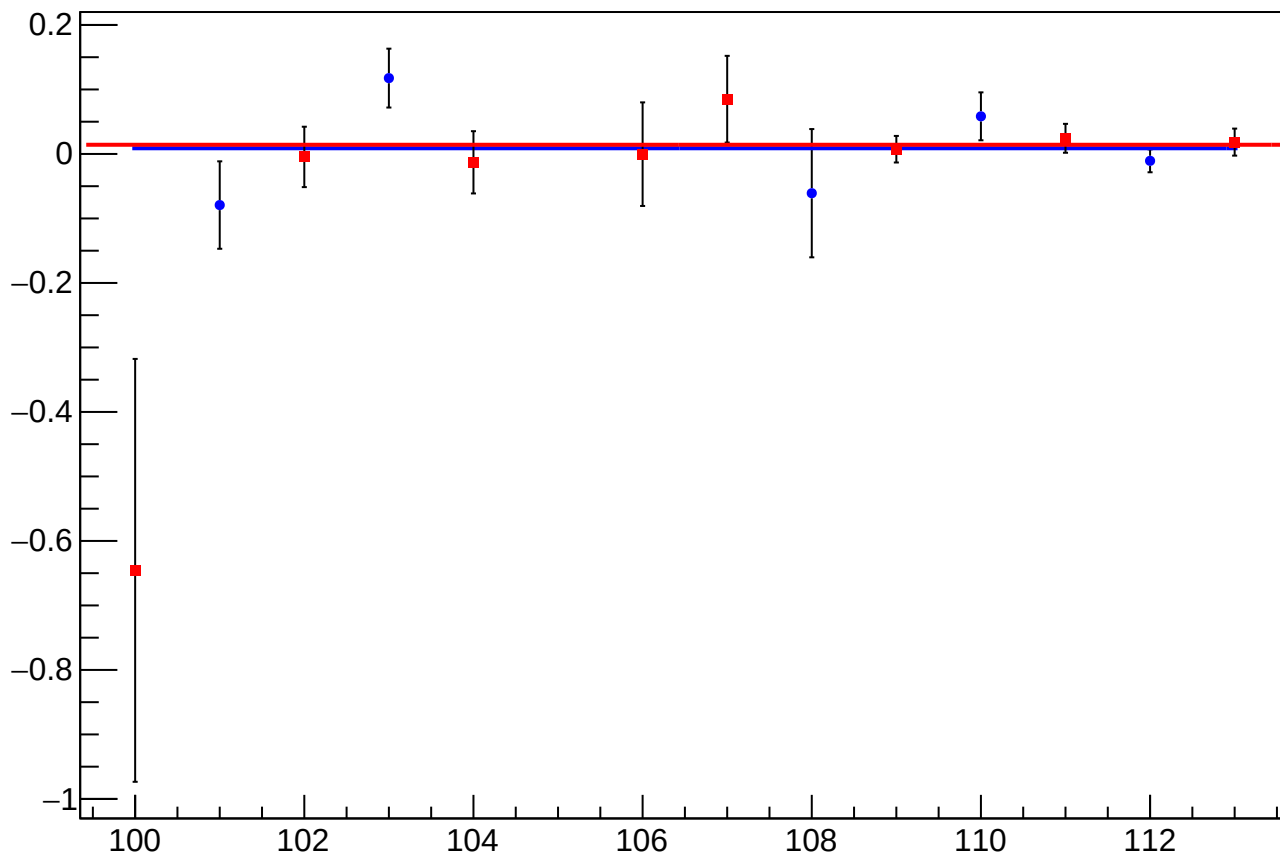
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.837+/-0.006  $\chi^2/\text{NDF}$ : 2454378.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.015  $\chi^2$ /NDF: 10.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.011  $\chi^2$ /NDF: 6.0/7

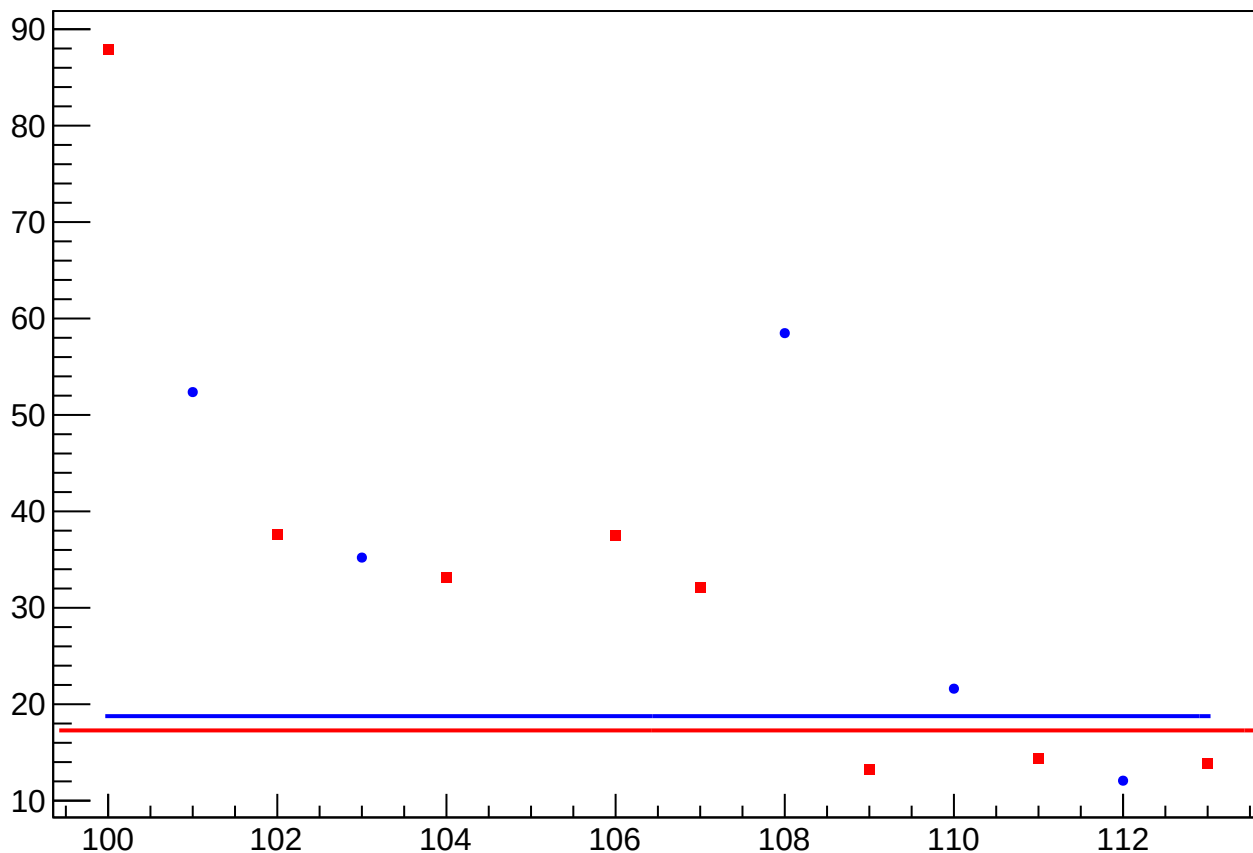
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.012 $\pm$ 0.009  $\chi^2$ /NDF: 17.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 18.765 $\pm$ 0.010  $\chi^2$ /NDF: 1366936.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.285 $\pm$ 0.008  $\chi^2$ /NDF: 1074514.0/7

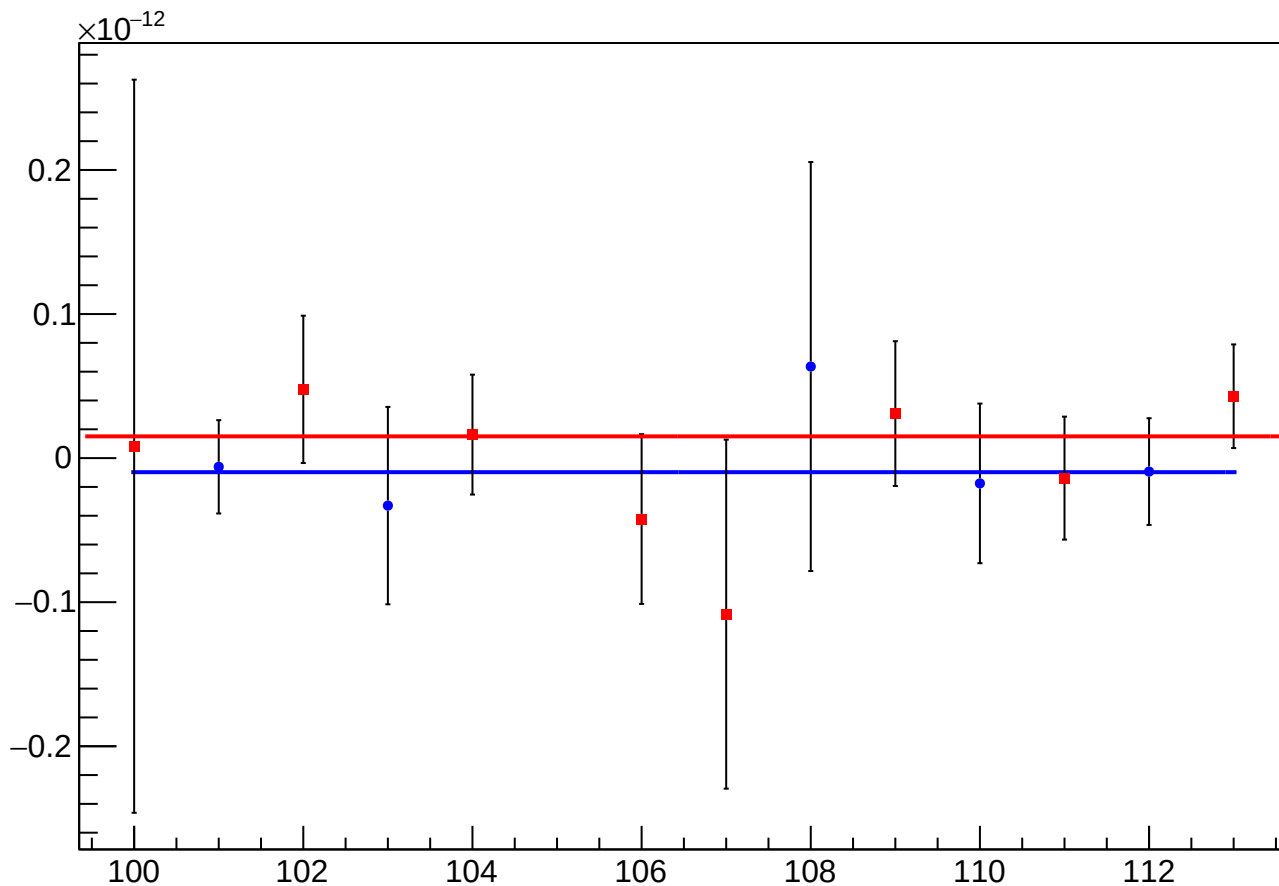
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.837 $\pm$ 0.006  $\chi^2$ /NDF: 2454378.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.6/7

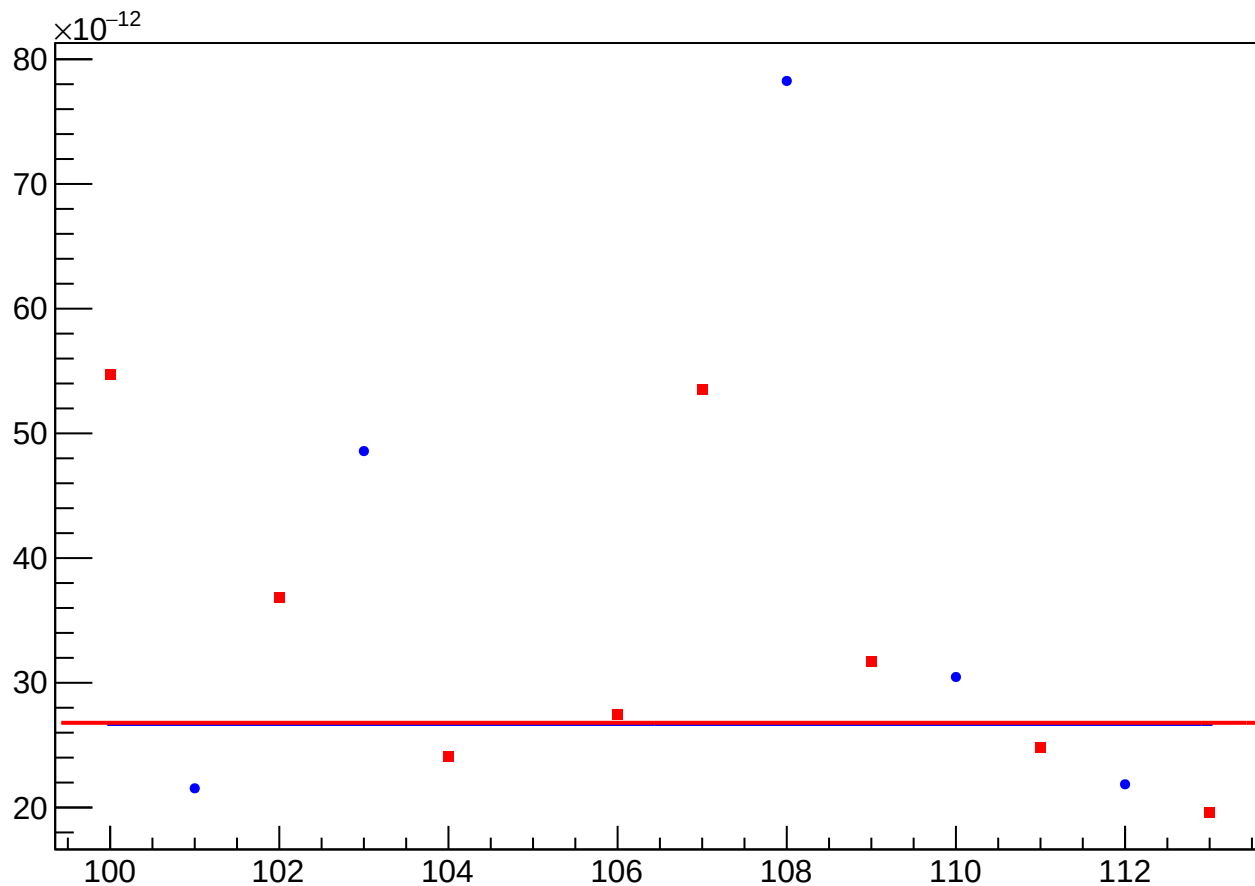
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 562134.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 310796.9/7

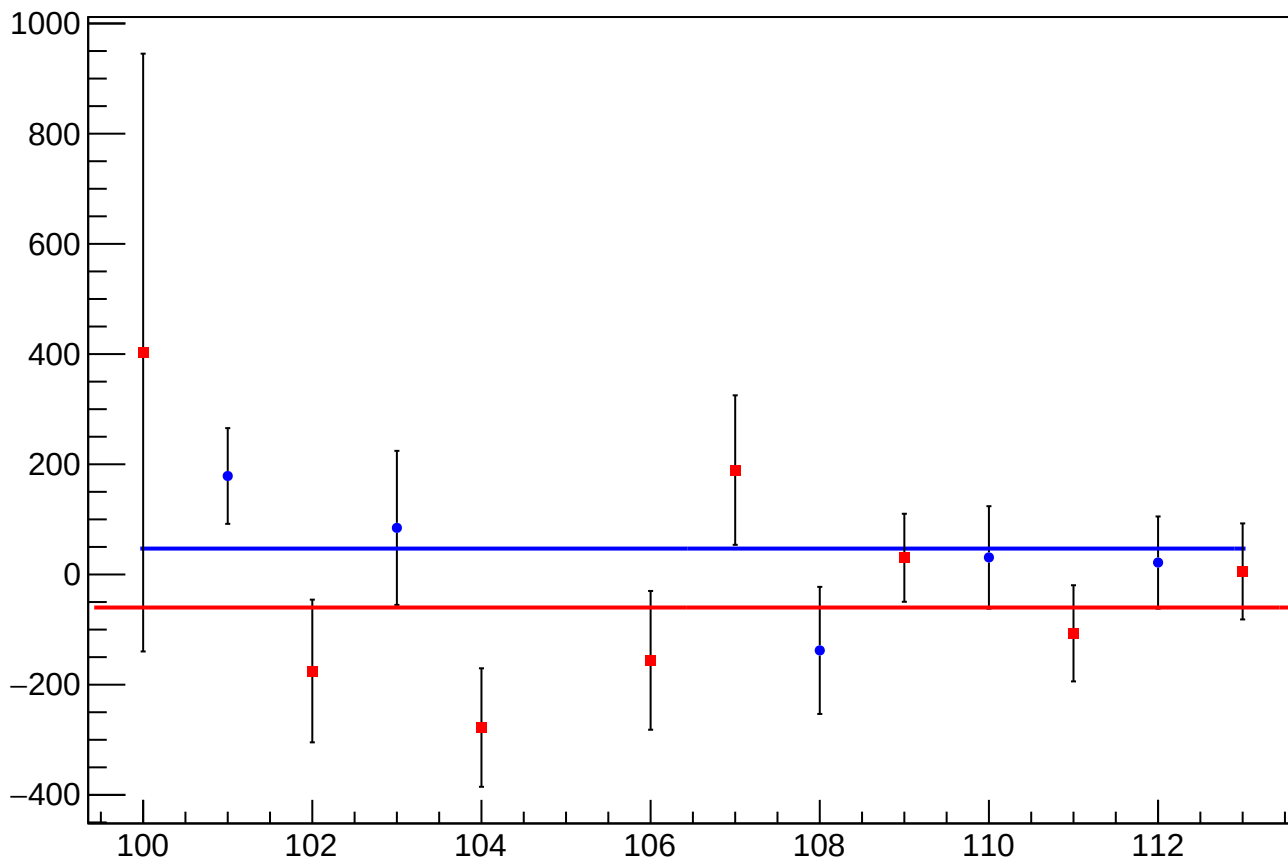
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 872952.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 47.022+/-43.956  $\chi^2/\text{NDF}$ : 5.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -59.941+/-38.161  $\chi^2/\text{NDF}$ : 11.7/7

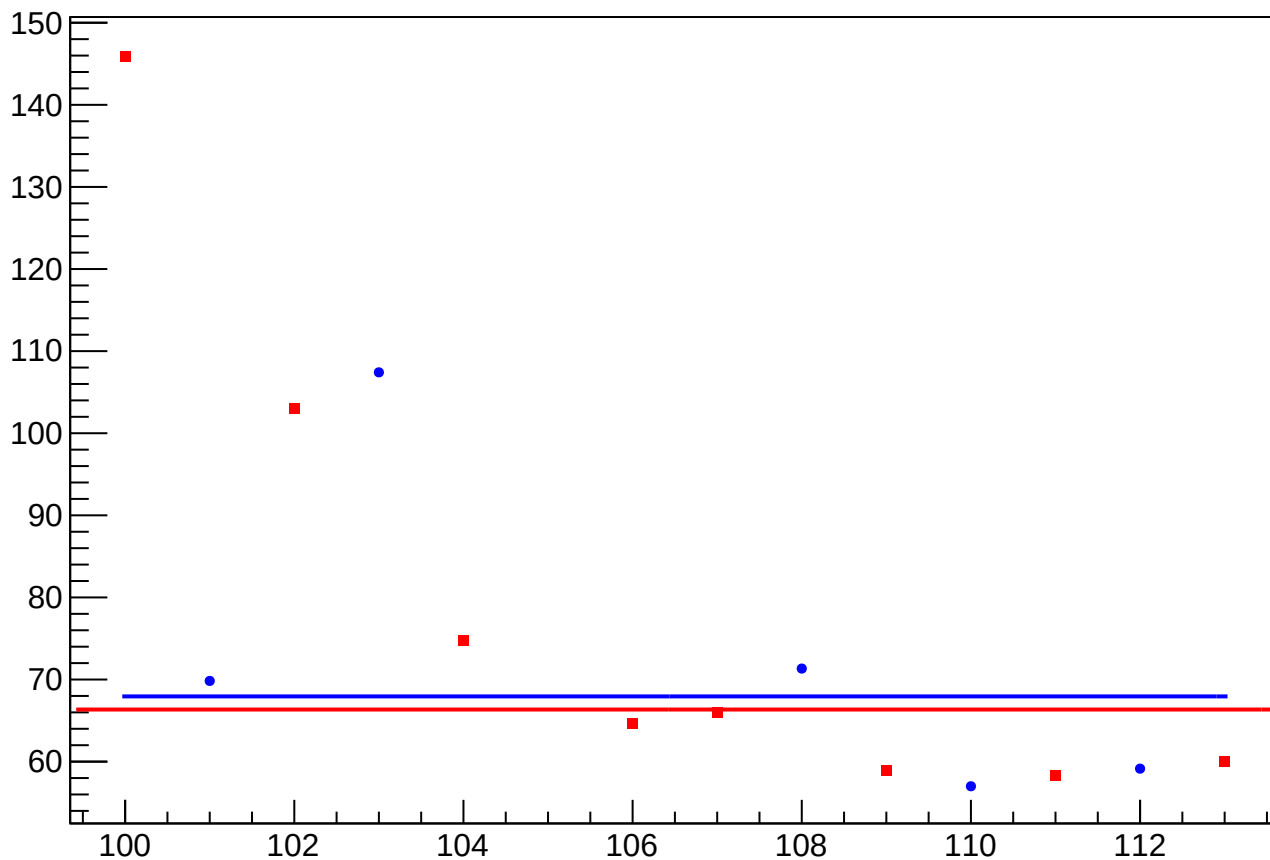
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.970+/-28.817  $\chi^2/\text{NDF}$ : 20.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 67.945 $\pm$ 0.031  $\chi^2$ /NDF: 212001.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 66.347 $\pm$ 0.027  $\chi^2$ /NDF: 261138.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

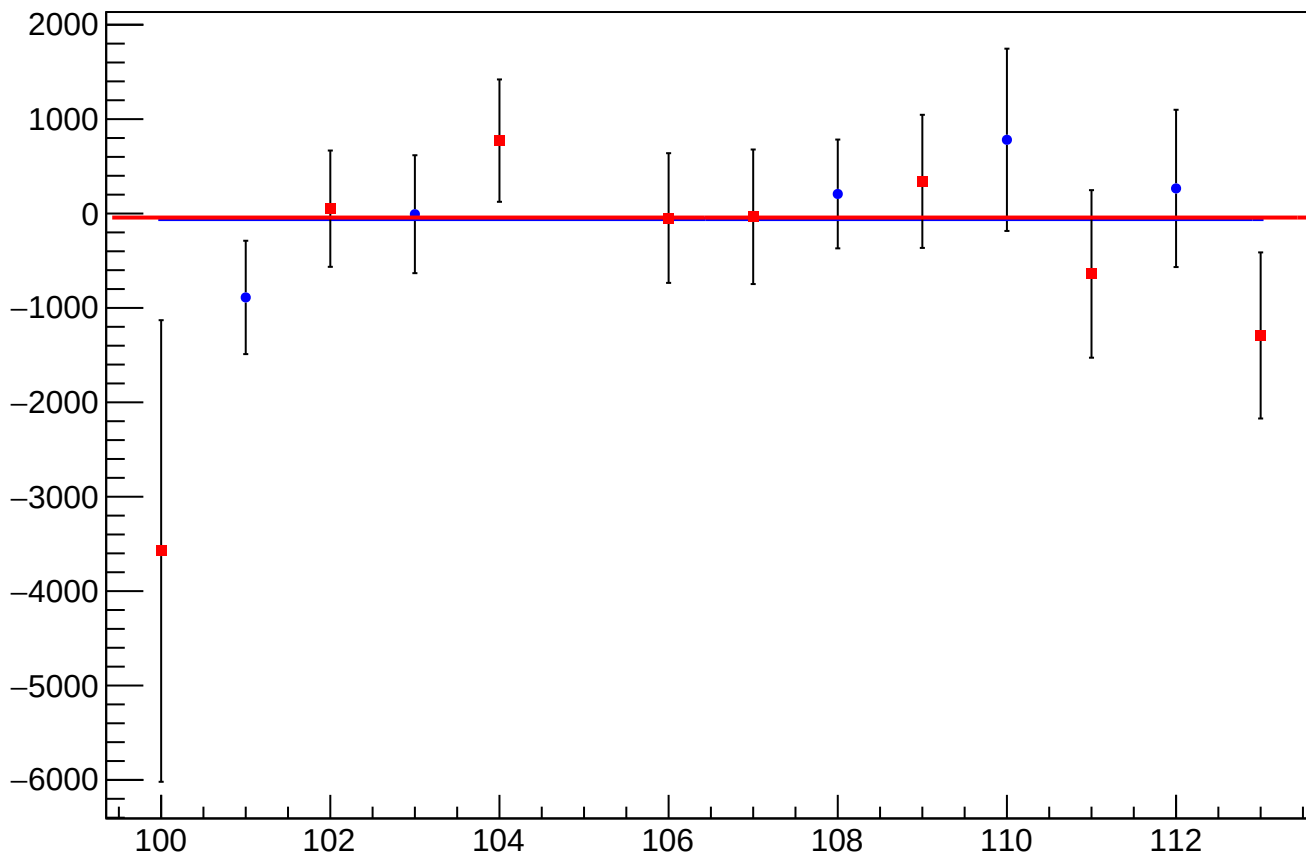
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 67.034 $\pm$ 0.020  $\chi^2$ /NDF: 474647.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_13\_57\_dd\_reg\_correction\_mean vs Slug



Right In: -58.757 $\pm$ 303.416  $\chi^2$ /NDF: 3.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -42.532 $\pm$ 268.759  $\chi^2$ /NDF: 6.5/7

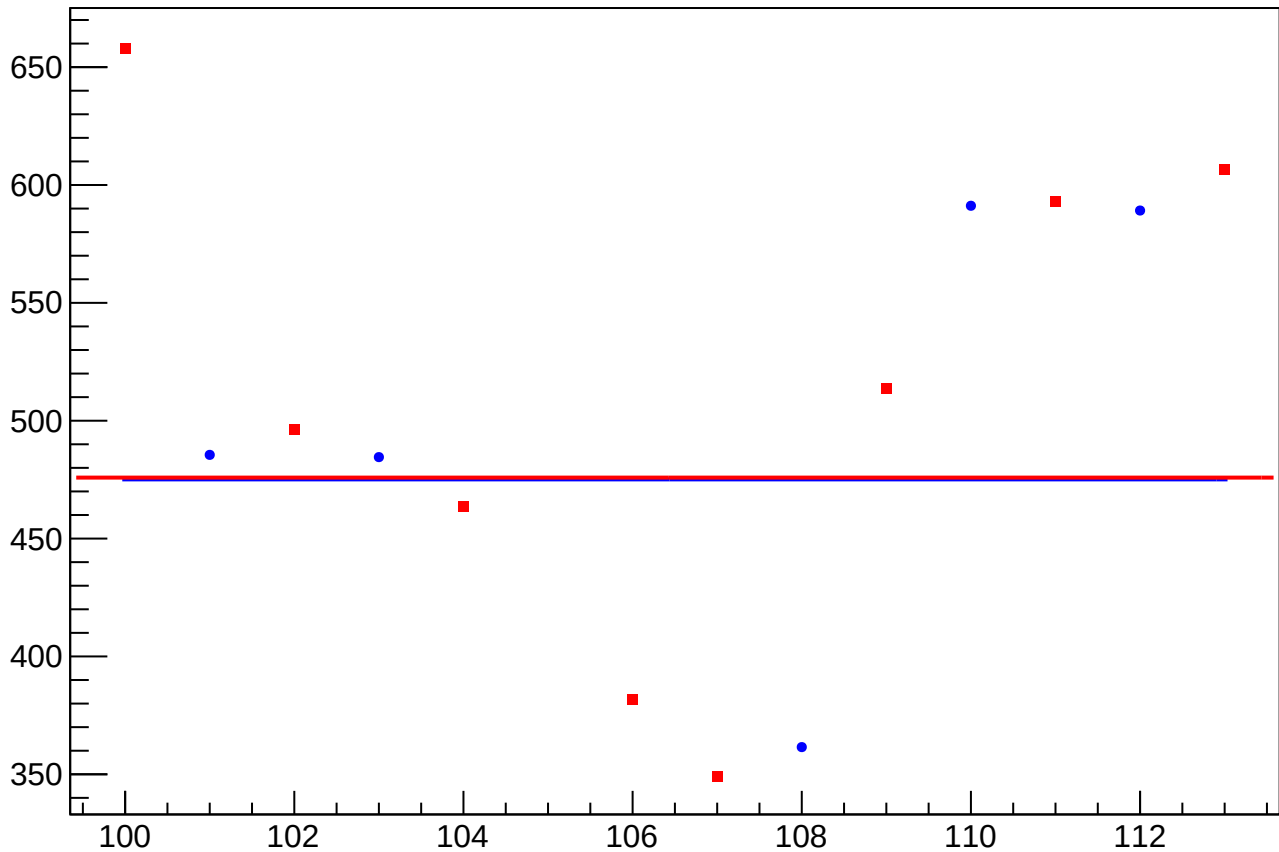
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

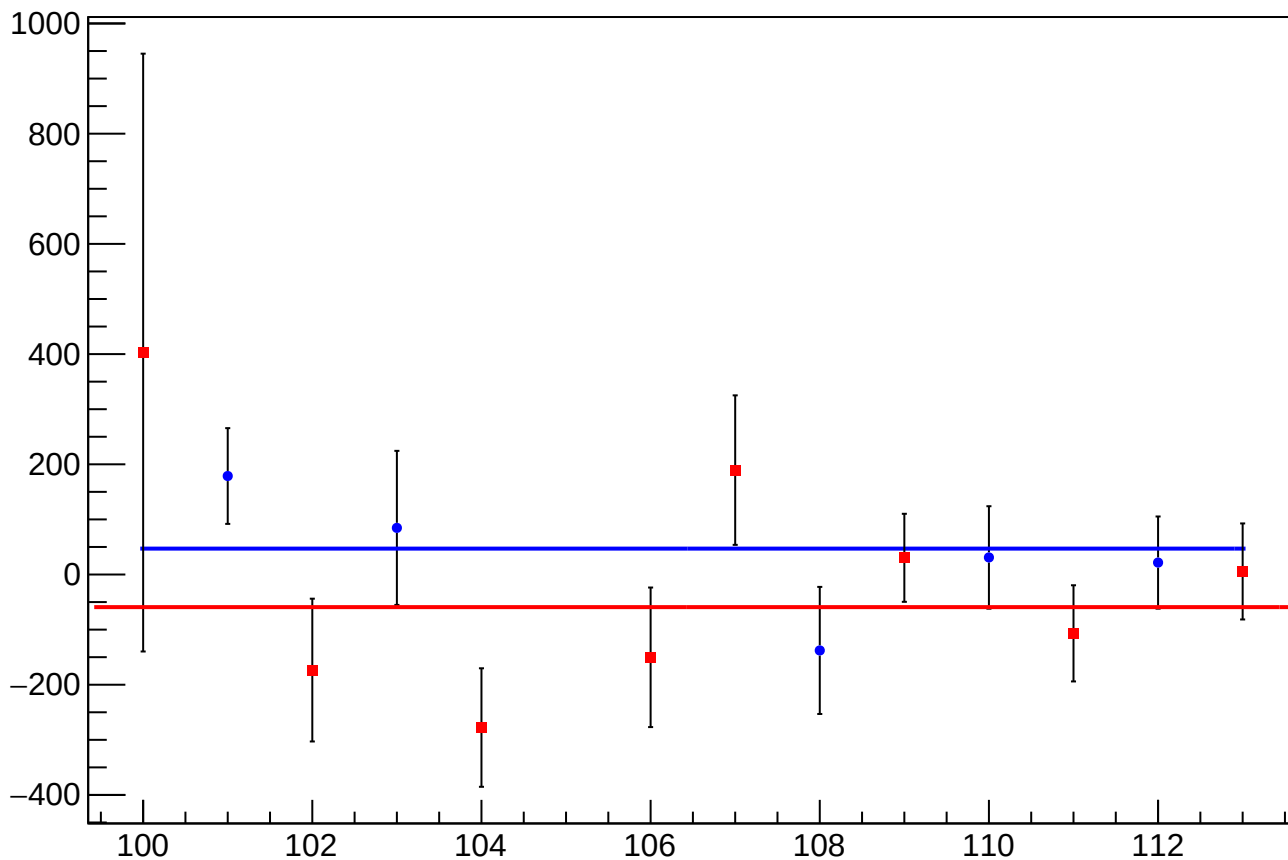
All: -49.665 $\pm$ 201.184  $\chi^2$ /NDF: 9.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_reg\_correction\_rms vs Slug



# cor\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 47.023+/-43.956  $\chi^2/\text{NDF}$ : 5.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -59.169+/-38.182  $\chi^2/\text{NDF}$ : 11.6/7

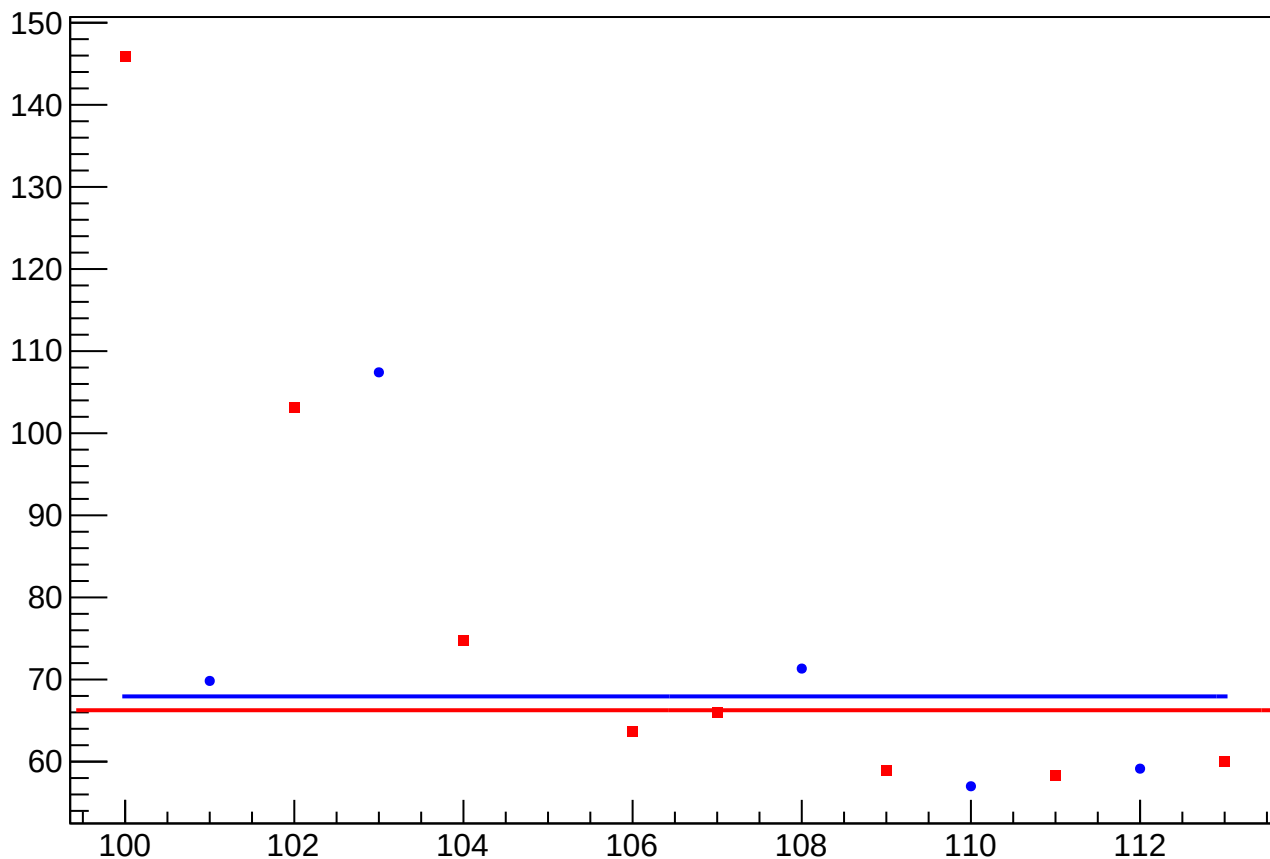
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.501+/-28.826  $\chi^2/\text{NDF}$ : 20.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 67.945+/-0.031  $\chi^2/\text{NDF}$ : 212003.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 66.260+/-0.027  $\chi^2/\text{NDF}$ : 261893.4/7

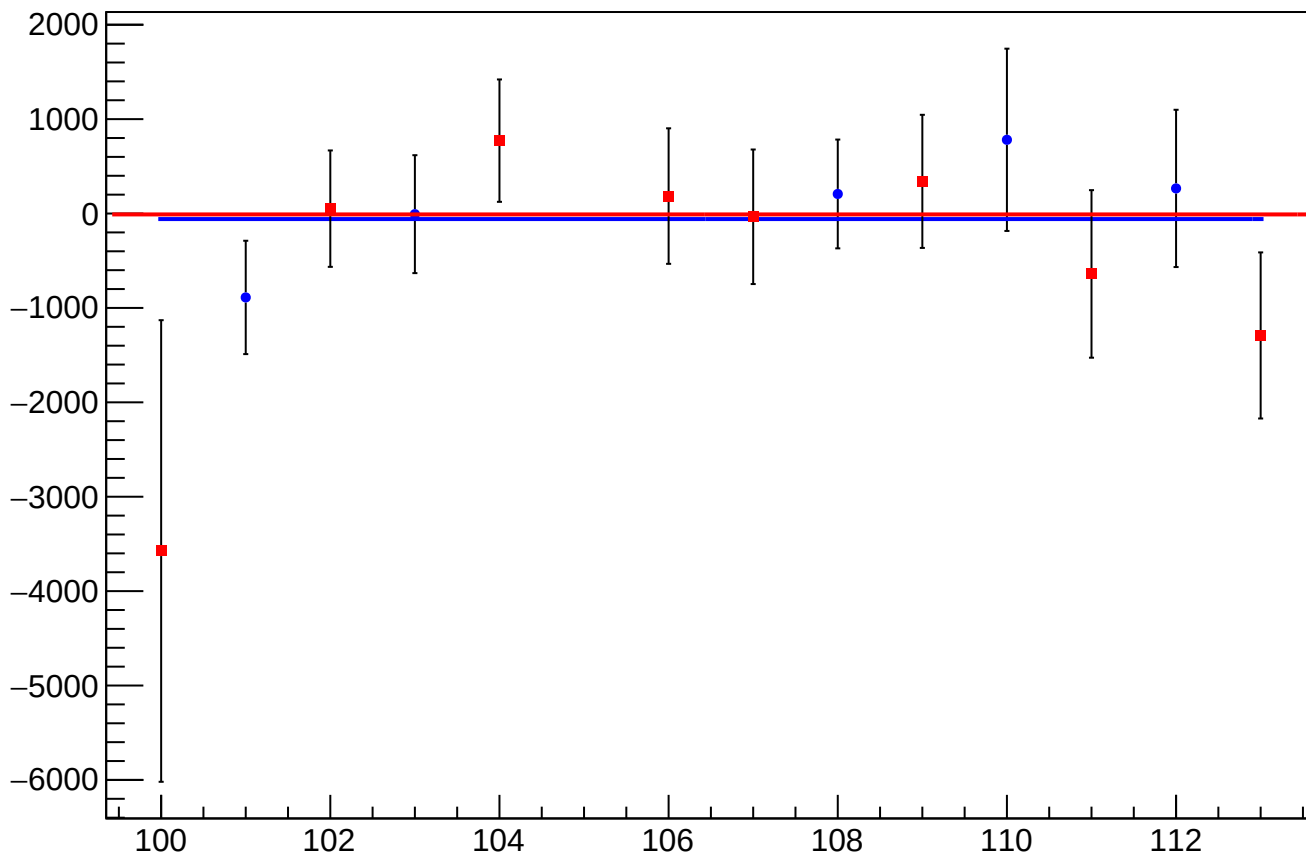
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.985+/-0.020  $\chi^2/\text{NDF}$ : 475572.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_cor\_correction\_mean vs Slug



Right In: -58.642 $\pm$ 303.421  $\chi^2$ /NDF: 3.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -9.434 $\pm$ 270.556  $\chi^2$ /NDF: 6.5/7

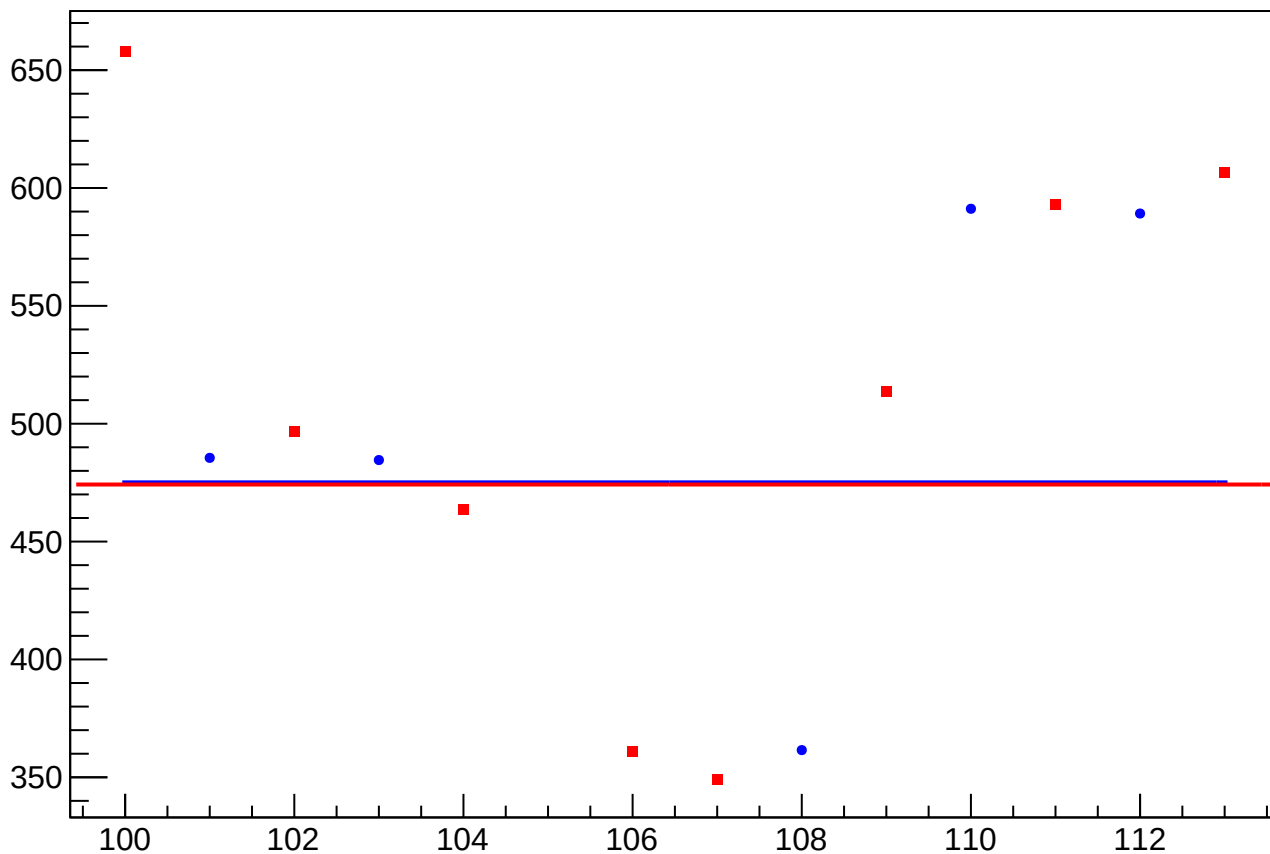
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -31.229 $\pm$ 201.936  $\chi^2$ /NDF: 9.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_cor\_correction\_rms vs Slug



Right In: 475.116+/-0.215  $\chi^2/\text{NDF}$ : 145148.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 474.208+/-0.191  $\chi^2/\text{NDF}$ : 213614.7/7

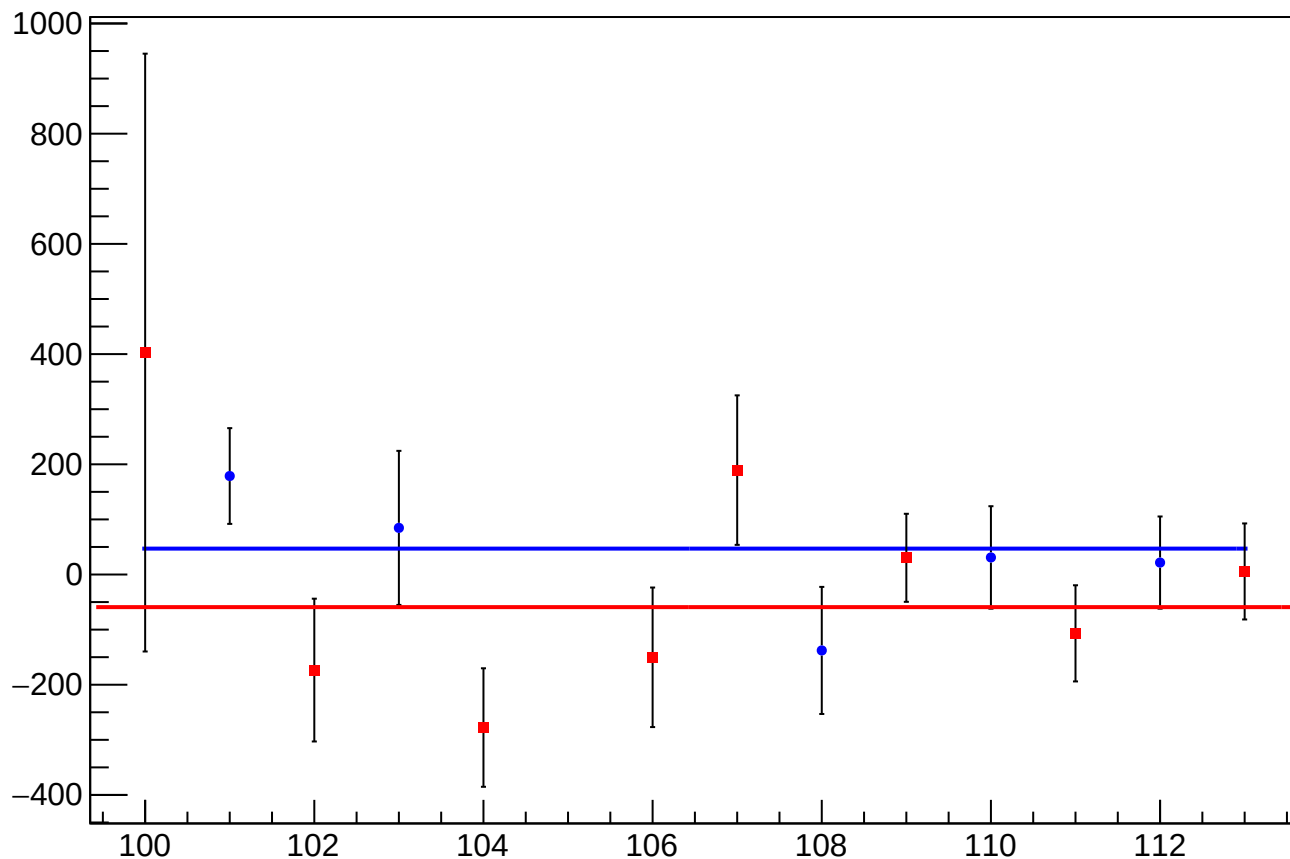
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 474.610+/-0.143  $\chi^2/\text{NDF}$ : 358773.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 47.023+/-43.956  $\chi^2/\text{NDF}$ : 5.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -59.169+/-38.182  $\chi^2/\text{NDF}$ : 11.6/7

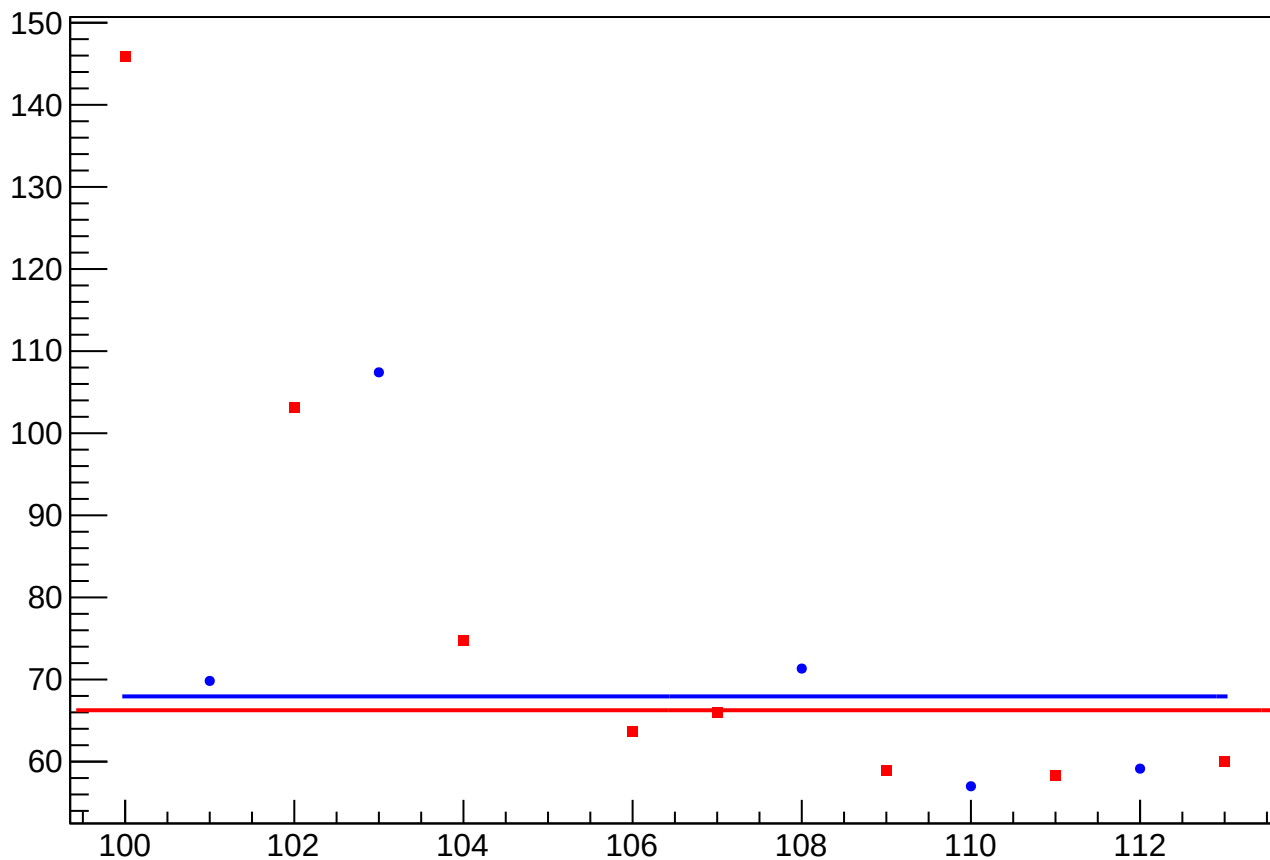
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.501+/-28.826  $\chi^2/\text{NDF}$ : 20.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 67.945 $\pm$ 0.031  $\chi^2$ /NDF: 212003.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 66.260 $\pm$ 0.027  $\chi^2$ /NDF: 261893.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

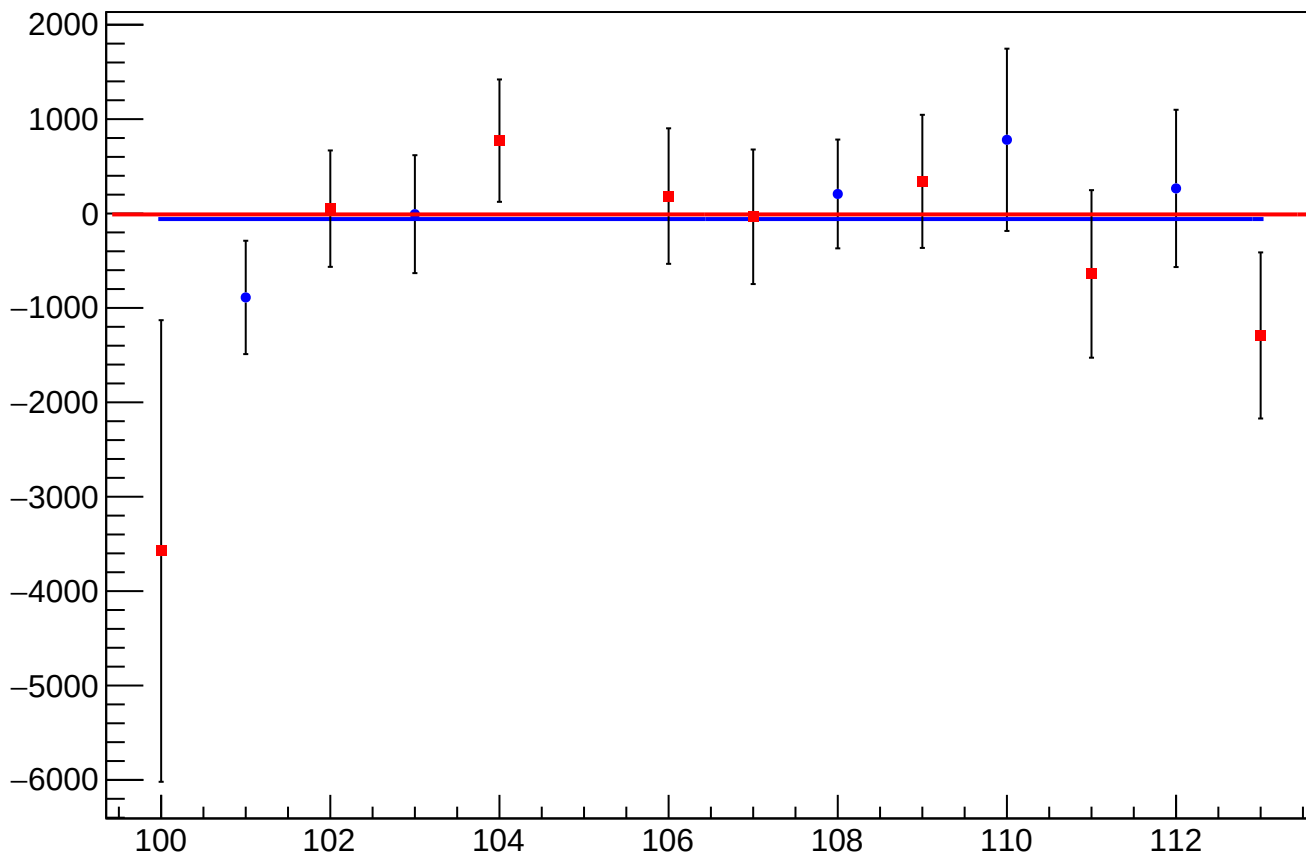
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 66.985 $\pm$ 0.020  $\chi^2$ /NDF: 475572.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_13\_57\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -58.642 $\pm$ 303.421  $\chi^2$ /NDF: 3.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -9.434 $\pm$ 270.556  $\chi^2$ /NDF: 6.5/7

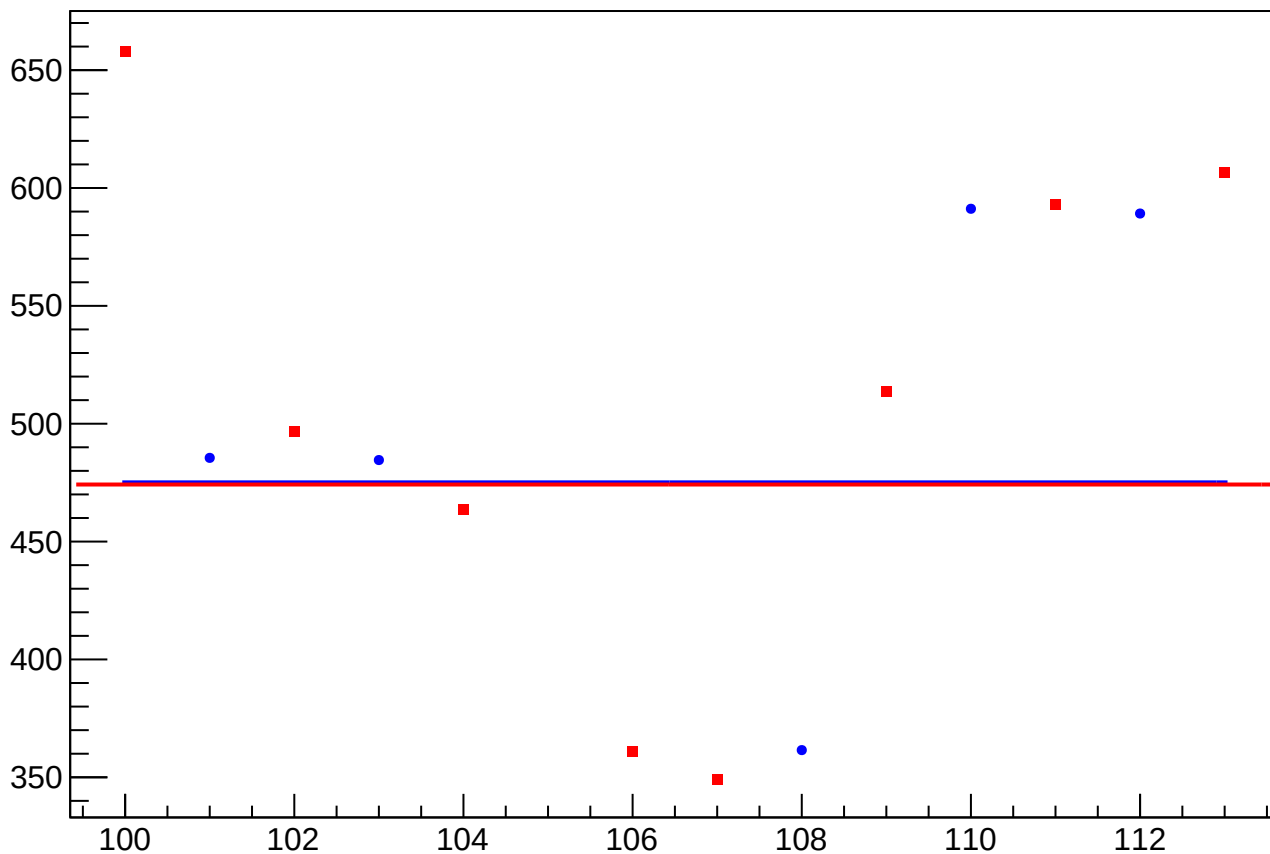
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -31.229 $\pm$ 201.936  $\chi^2$ /NDF: 9.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 475.116+/-0.215  $\chi^2/\text{NDF}$ : 145148.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 474.208+/-0.191  $\chi^2/\text{NDF}$ : 213614.7/7

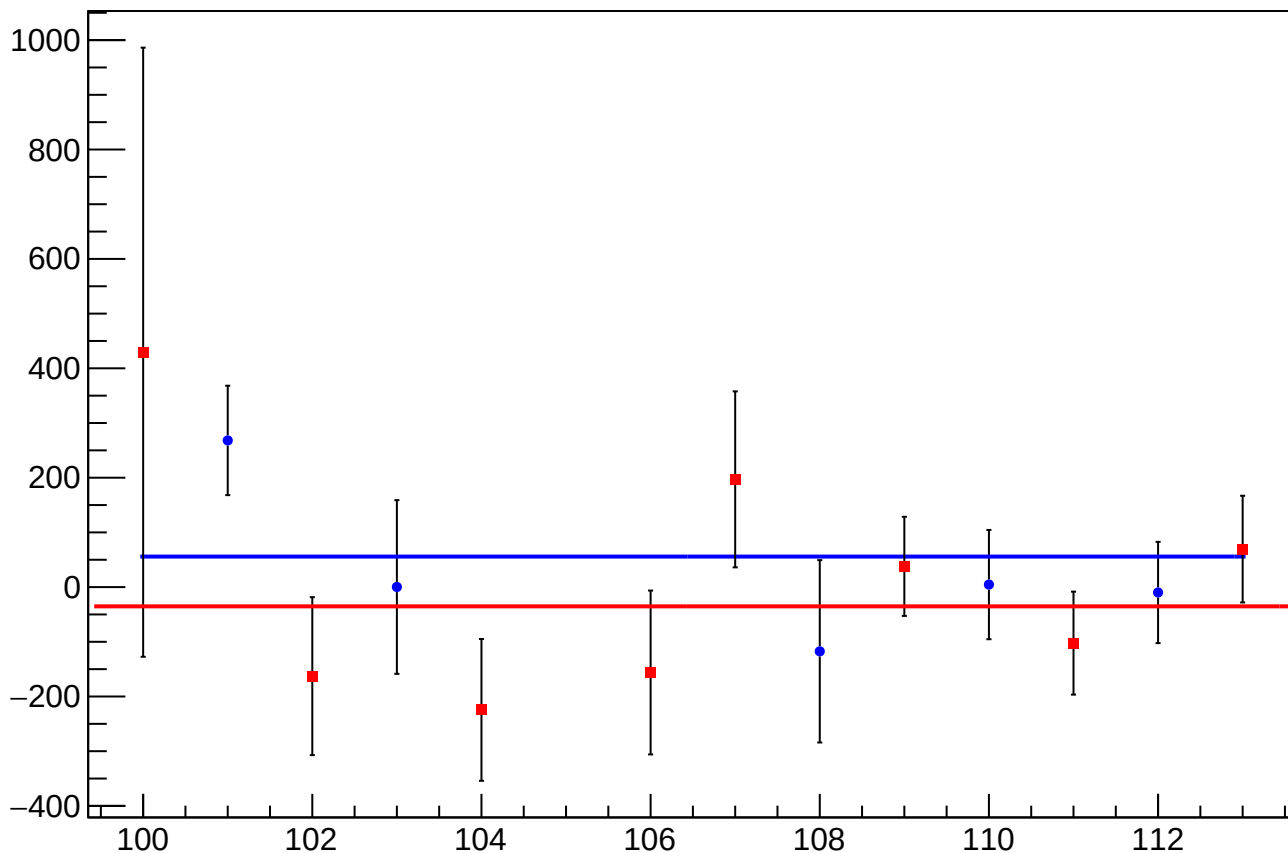
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 474.610+/-0.143  $\chi^2/\text{NDF}$ : 358773.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 55.814+/-50.468  $\chi^2/\text{NDF}$ : 6.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -35.171+/-43.287  $\chi^2/\text{NDF}$ : 8.7/7

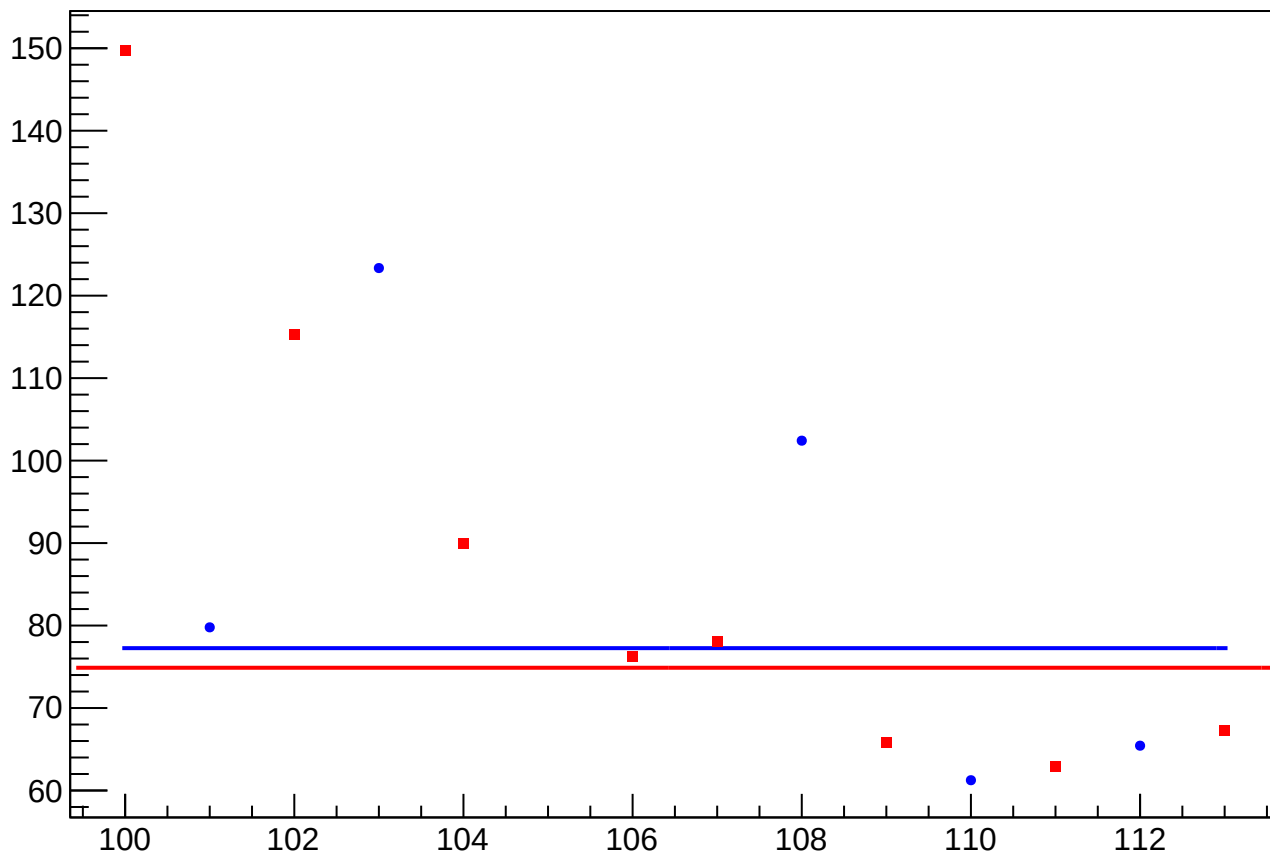
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.394+/-32.857  $\chi^2/\text{NDF}$ : 17.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 77.260 $\pm$ 0.036  $\chi^2$ /NDF: 299366.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 74.883 $\pm$ 0.031  $\chi^2$ /NDF: 285163.4/7

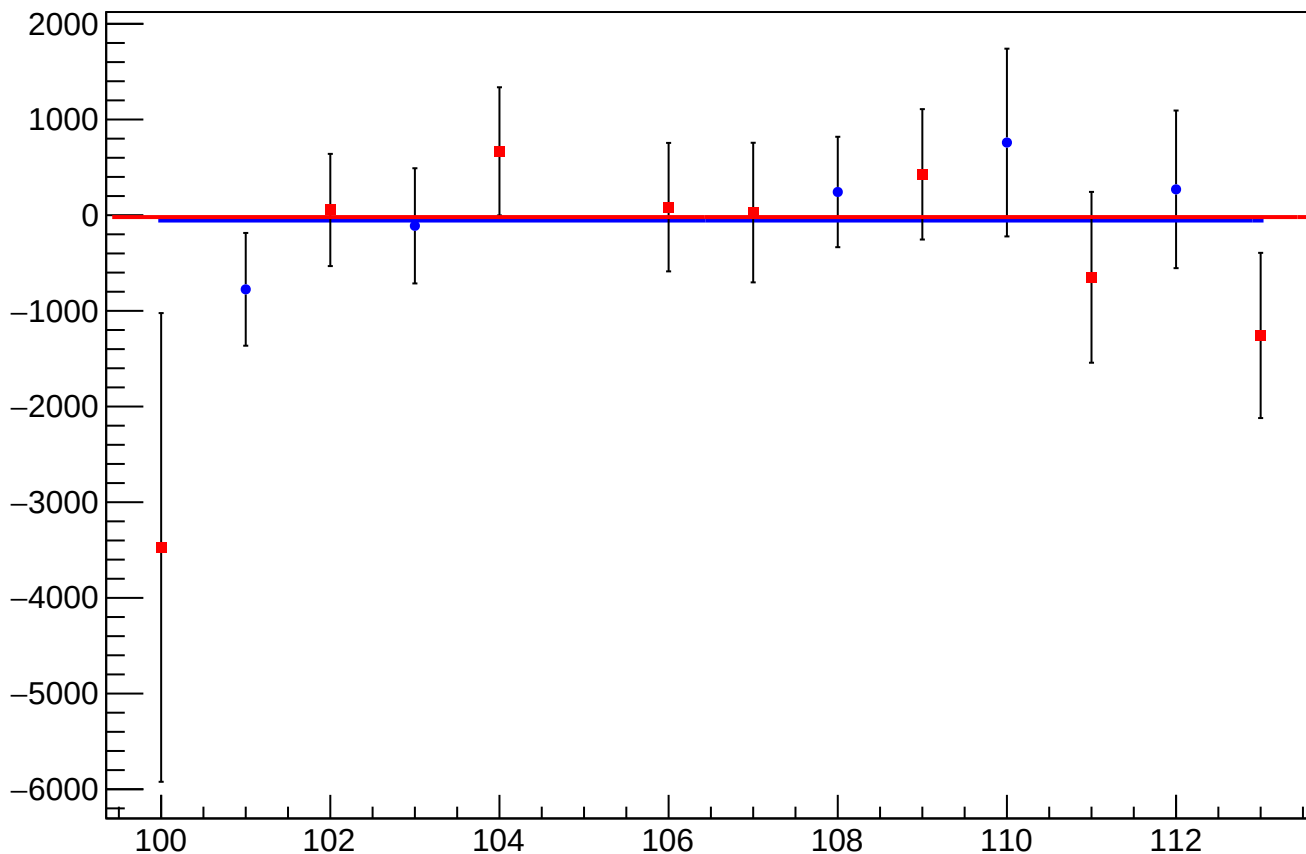
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 75.890 $\pm$ 0.023  $\chi^2$ /NDF: 587086.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_dit\_correction\_mean vs Slug



Right In: -55.872+/-299.414  $\chi^2/\text{NDF}$ : 2.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -19.701+/-265.854  $\chi^2/\text{NDF}$ : 6.1/7

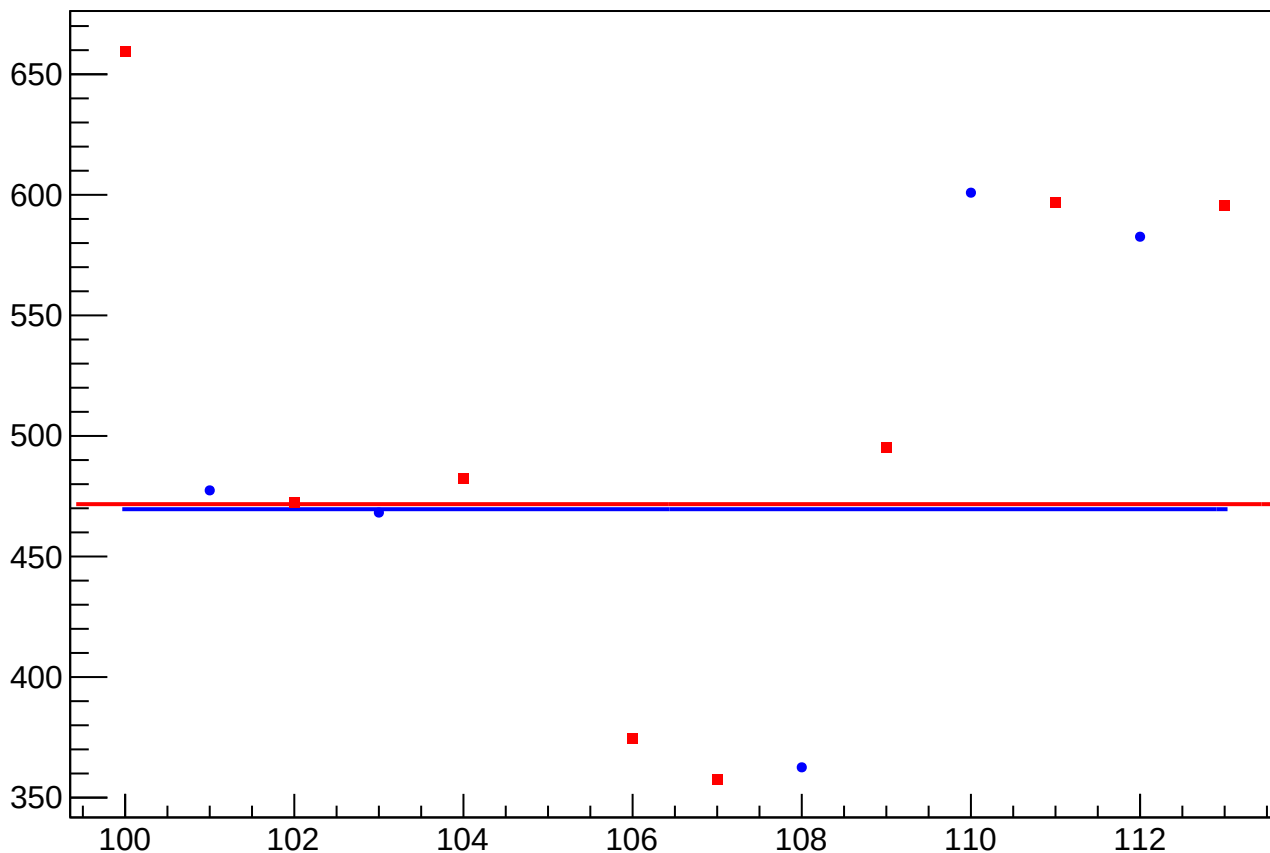
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -35.647+/-198.798  $\chi^2/\text{NDF}$ : 8.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_13\_57\_dd\_dit\_correction\_rms vs Slug



Right In: 469.617 $\pm$ 0.212  $\chi^2$ /NDF: 142658.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 471.711 $\pm$ 0.188  $\chi^2$ /NDF: 185875.2/7

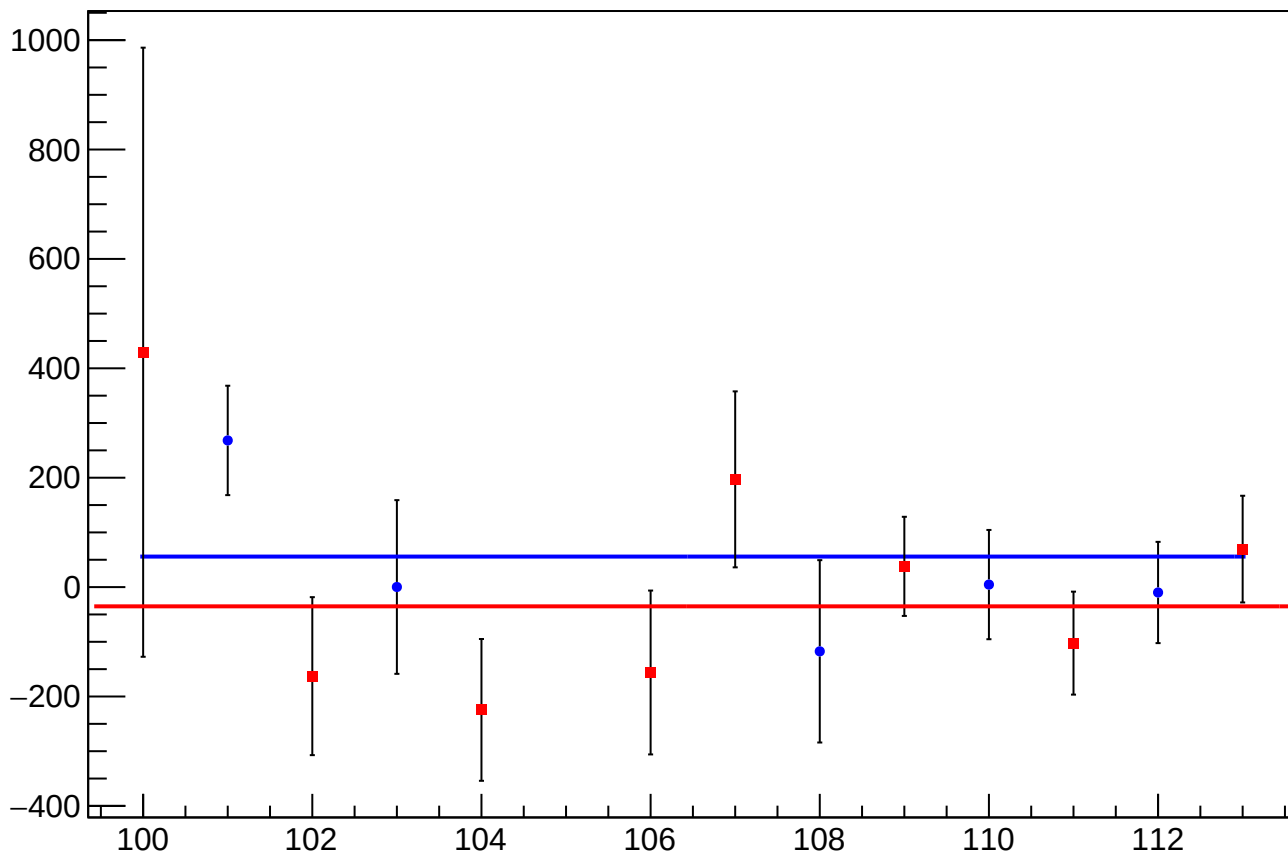
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 470.788 $\pm$ 0.141  $\chi^2$ /NDF: 328588.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 55.816+/-50.468  $\chi^2/\text{NDF}$ : 6.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -35.171+/-43.287  $\chi^2/\text{NDF}$ : 8.7/7

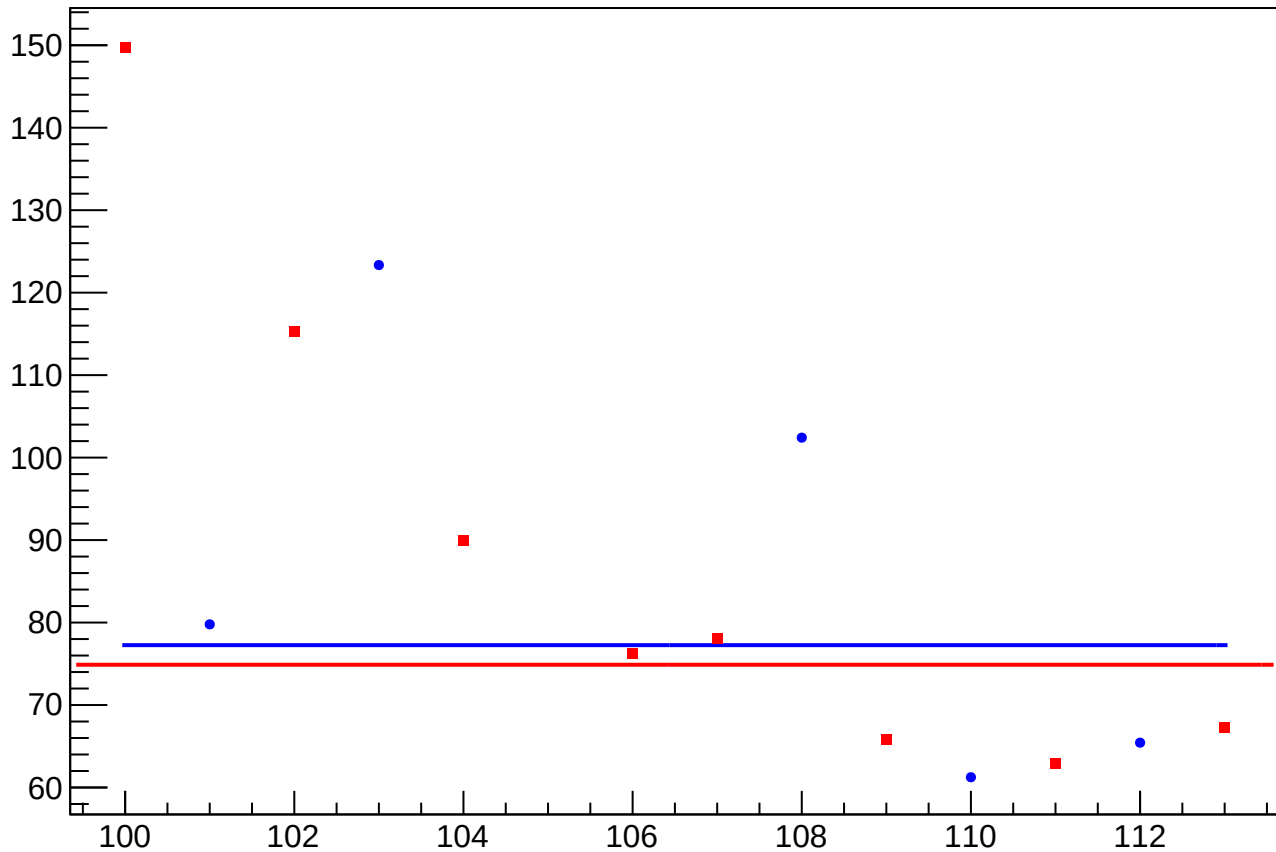
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.395+/-32.857  $\chi^2/\text{NDF}$ : 17.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 77.260 $\pm$ 0.036  $\chi^2$ /NDF: 299372.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 74.883 $\pm$ 0.031  $\chi^2$ /NDF: 285164.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

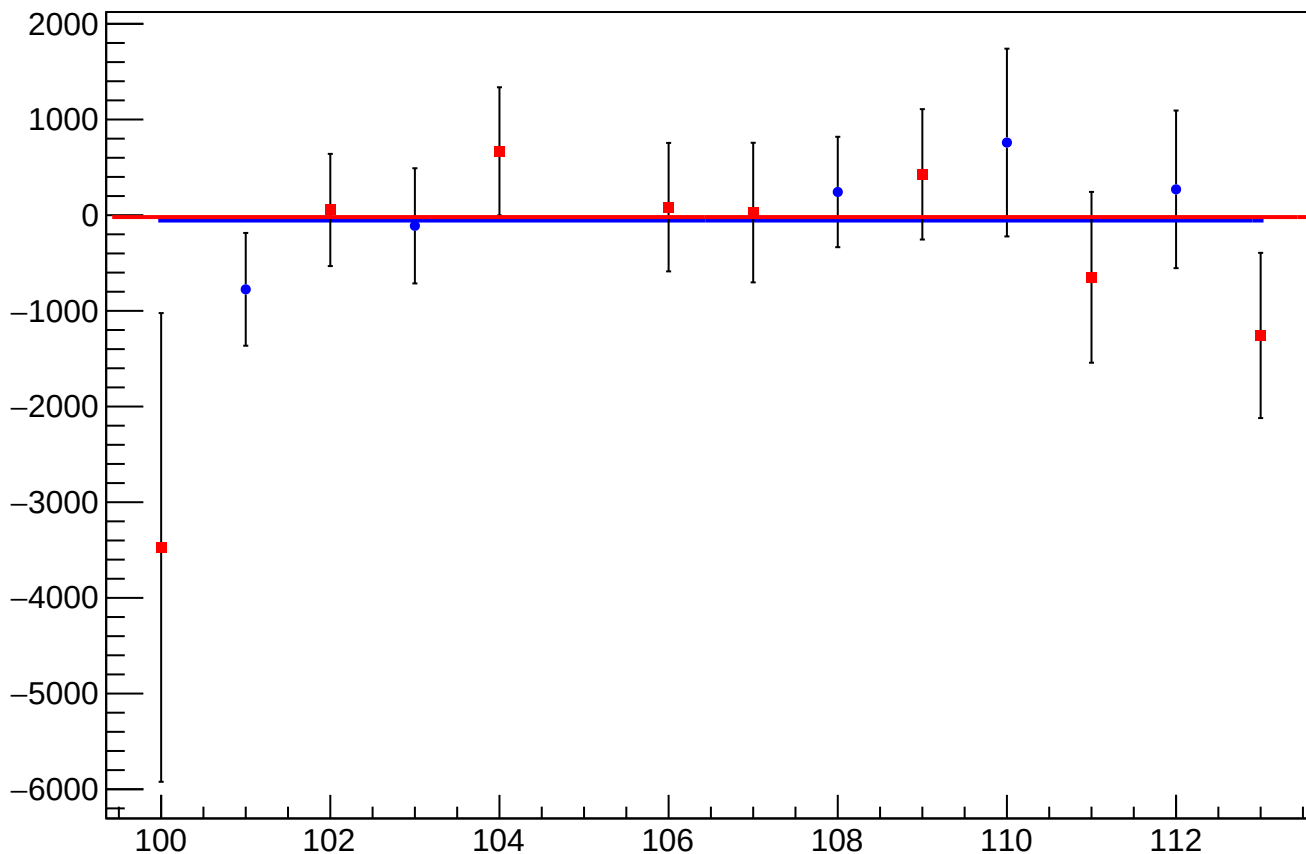
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 75.890 $\pm$ 0.023  $\chi^2$ /NDF: 587093.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_13\_57\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -55.872 $\pm$ 299.413  $\chi^2$ /NDF: 2.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -19.700 $\pm$ 265.854  $\chi^2$ /NDF: 6.1/7

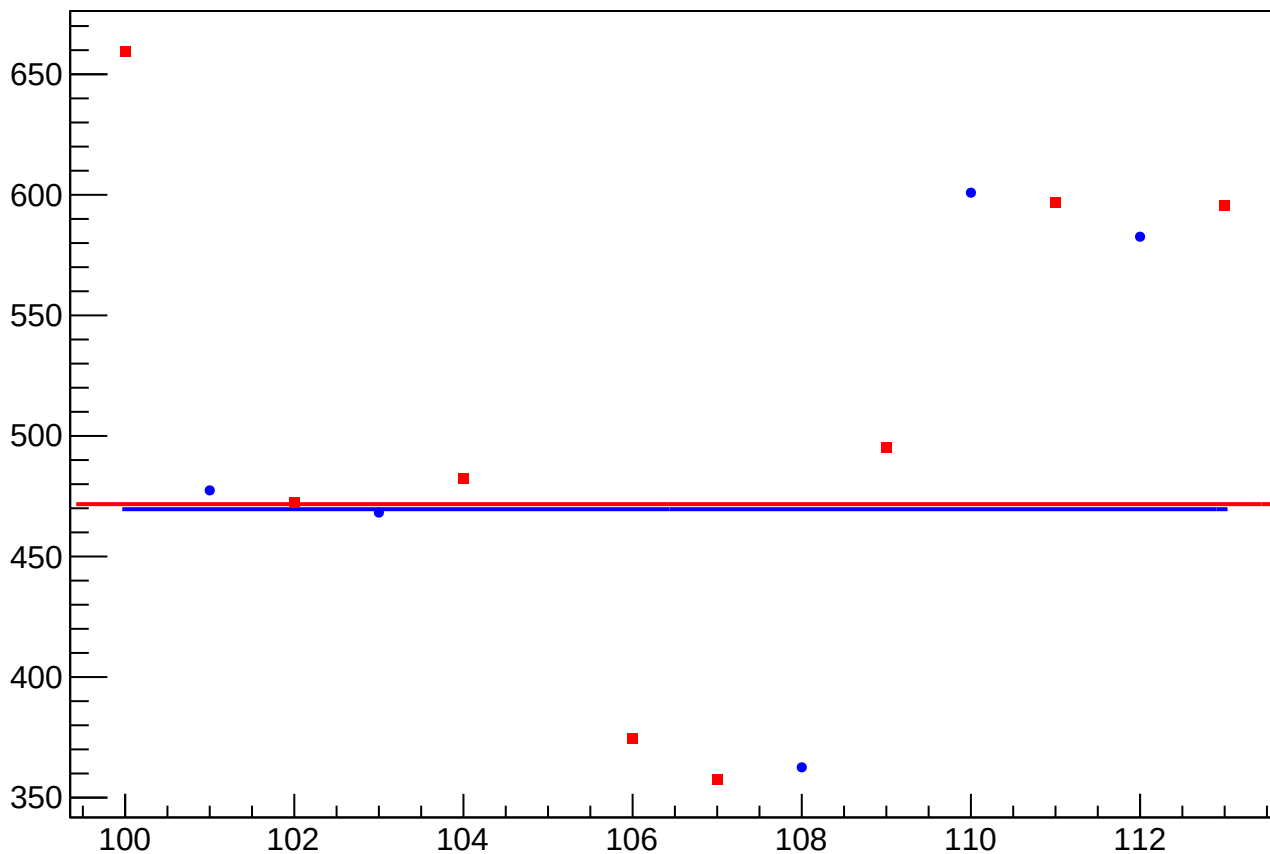
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -35.646 $\pm$ 198.798  $\chi^2$ /NDF: 8.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 469.616 $\pm$ 0.212  $\chi^2$ /NDF: 142659.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 471.710 $\pm$ 0.188  $\chi^2$ /NDF: 185874.9/7

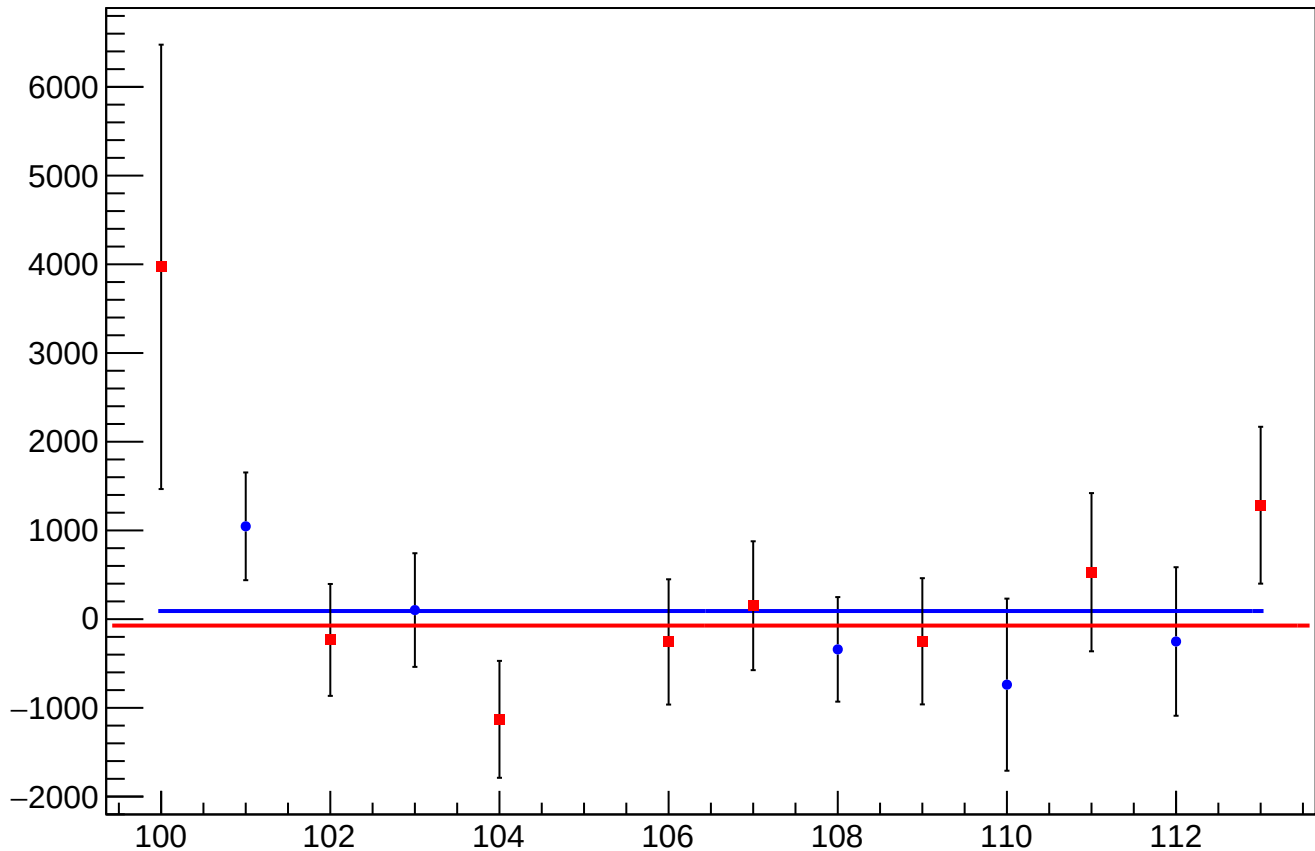
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 470.787 $\pm$ 0.141  $\chi^2$ /NDF: 328588.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 91.534 $\pm$ 308.340  $\chi^2$ /NDF: 3.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -72.375 $\pm$ 273.292  $\chi^2$ /NDF: 8.3/7

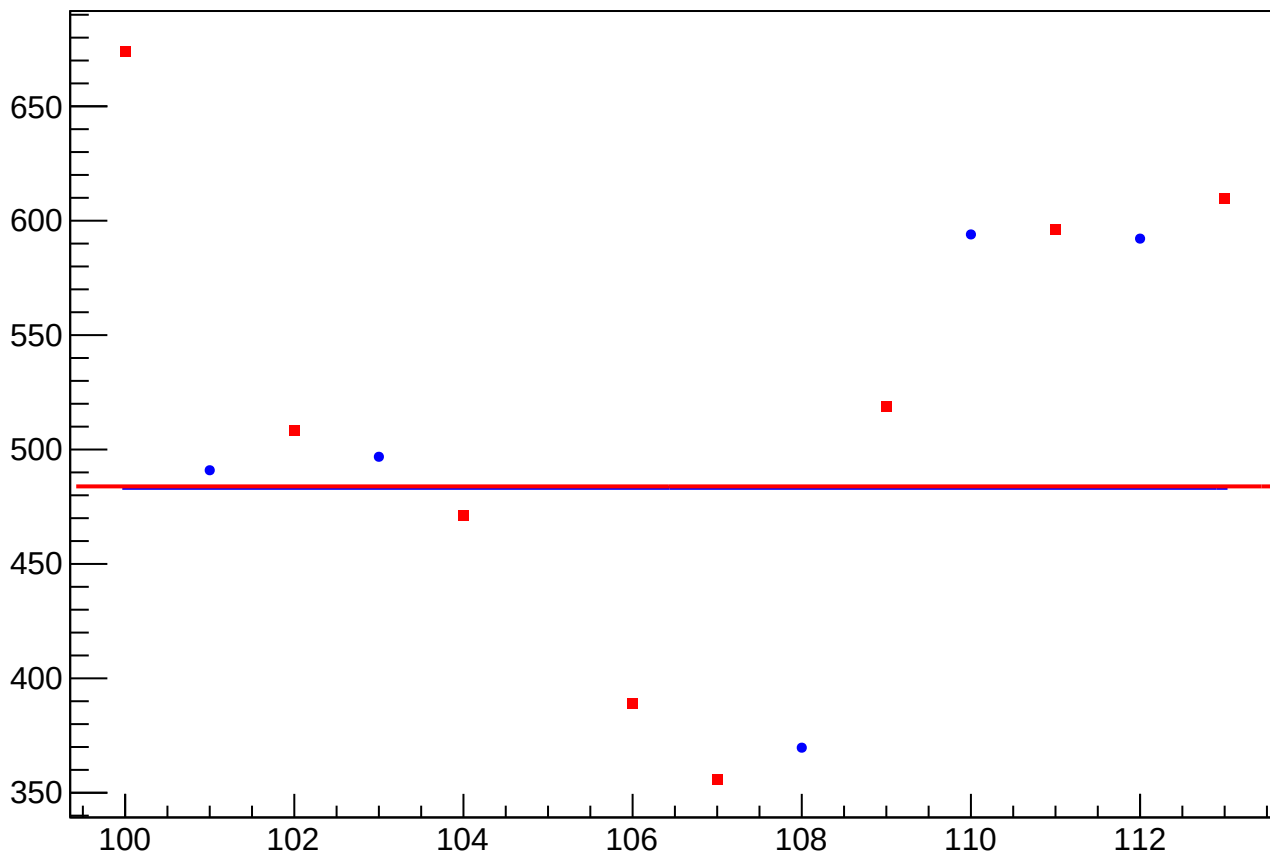
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.262 $\pm$ 204.520  $\chi^2$ /NDF: 12.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 483.264 $\pm$ 0.218  $\chi^2$ /NDF: 135382.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 483.889 $\pm$ 0.193  $\chi^2$ /NDF: 190616.5/7

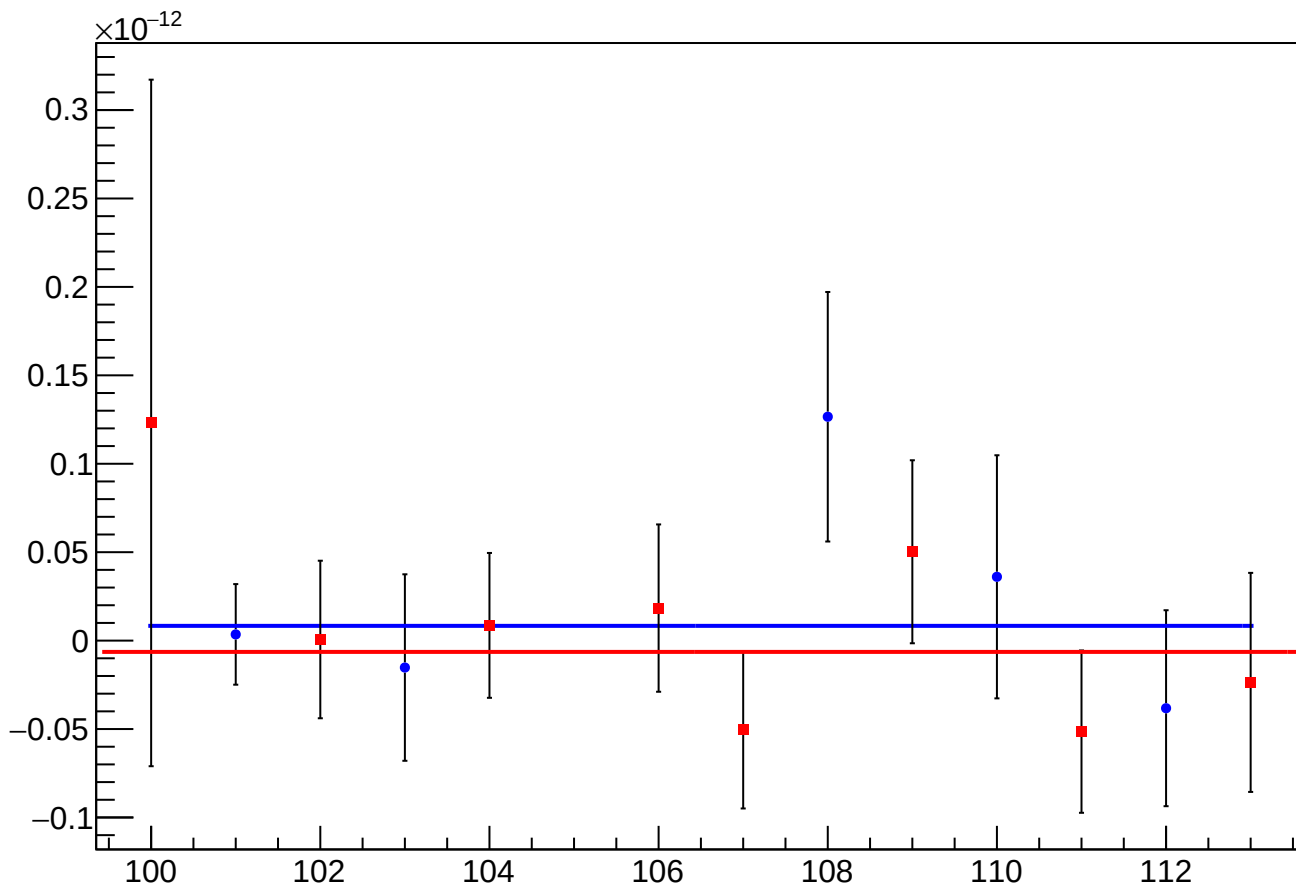
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 483.614 $\pm$ 0.145  $\chi^2$ /NDF: 326003.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.1/7

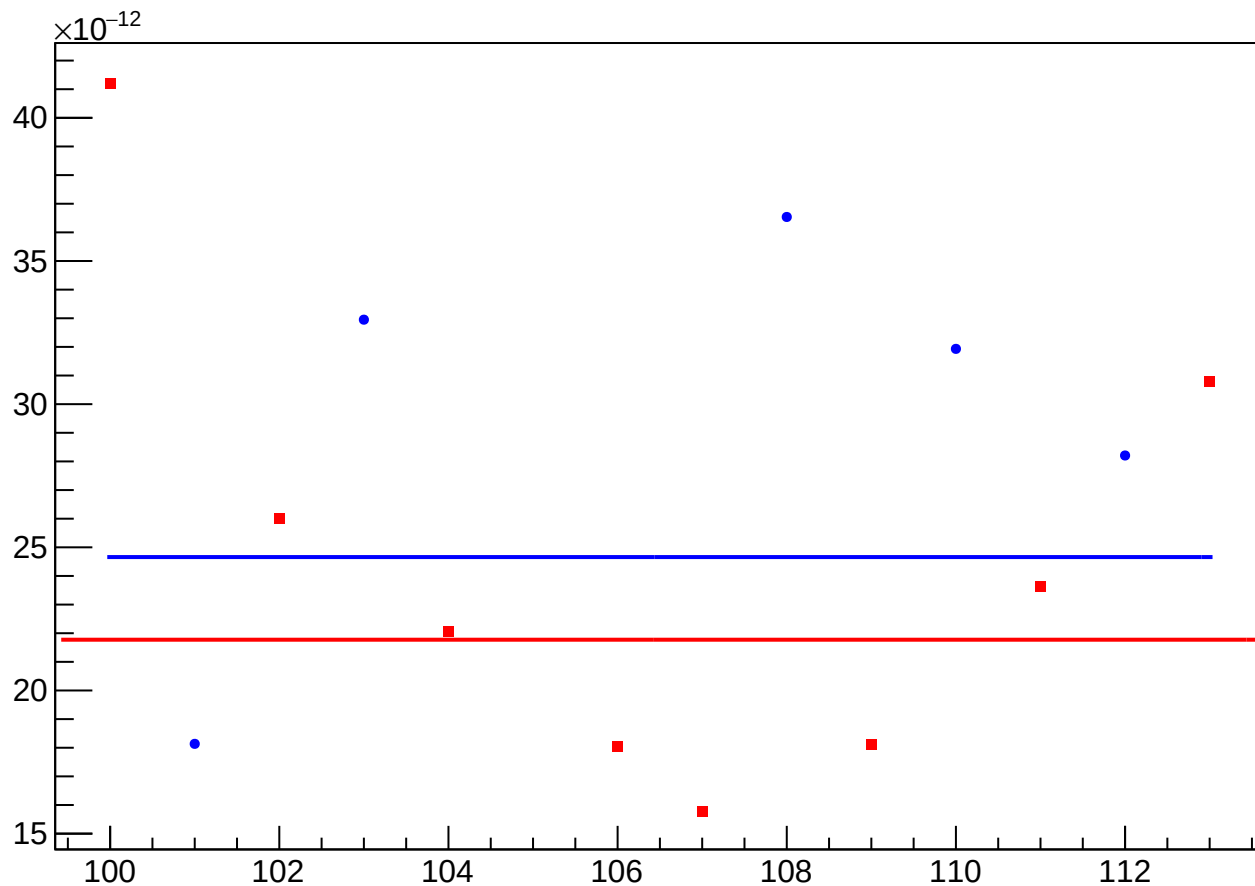
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 241947.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 142640.1/7

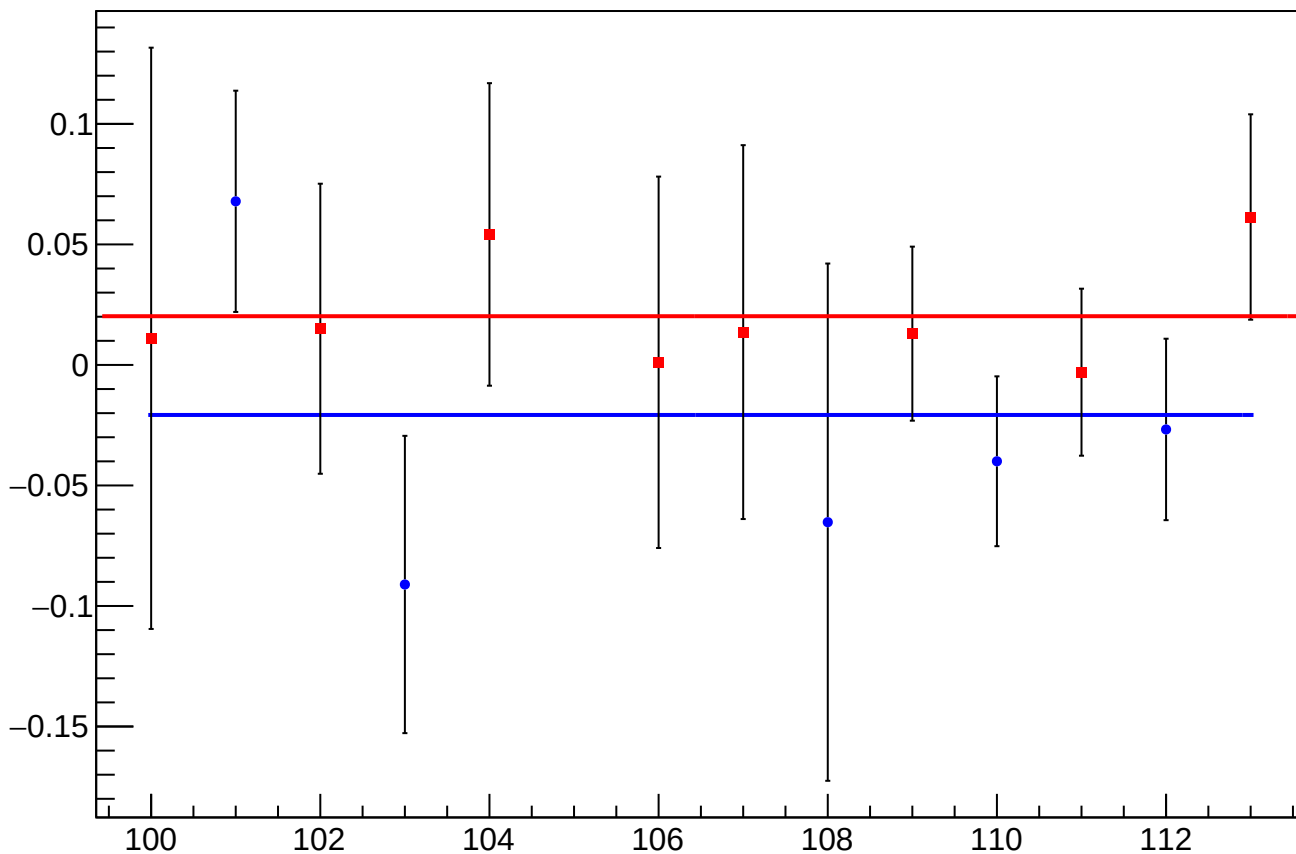
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 407039.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.021 $\pm$ 0.021  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.020 $\pm$ 0.018  $\chi^2$ /NDF: 1.8/7

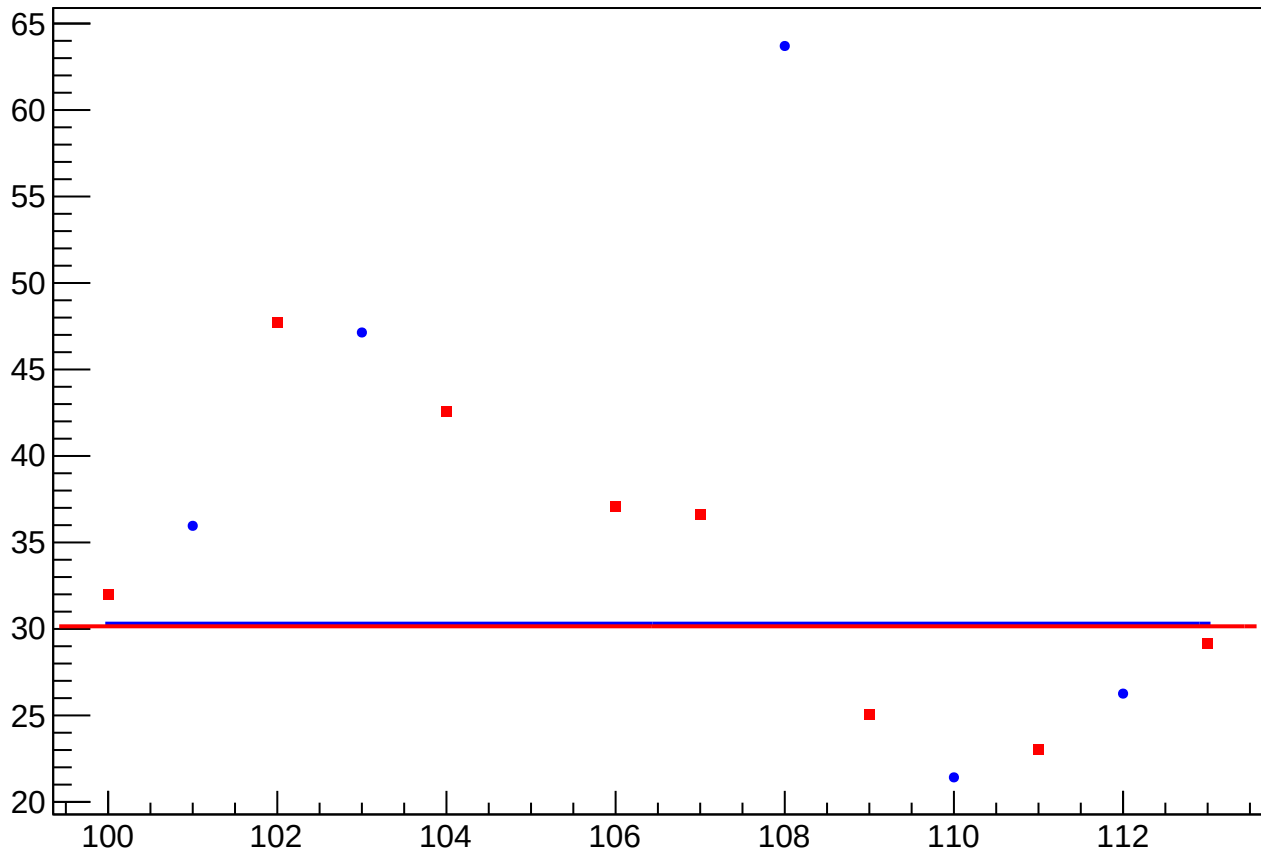
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.014  $\chi^2$ /NDF: 9.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 30.305+/-0.015  $\chi^2/\text{NDF}$ : 523489.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30.152+/-0.013  $\chi^2/\text{NDF}$ : 405255.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

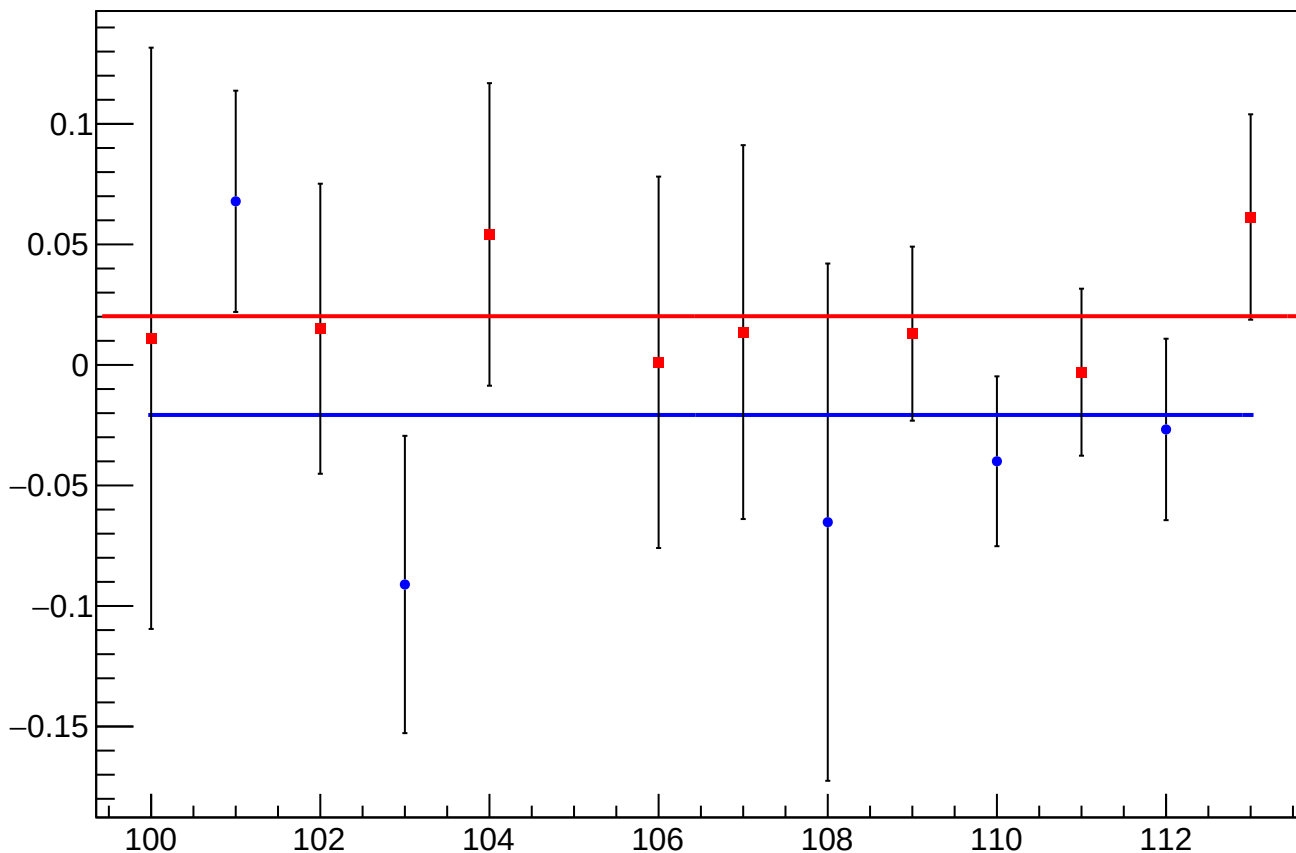
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.218+/-0.010  $\chi^2/\text{NDF}$ : 928807.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_13\_57\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.021 $\pm$ 0.021  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.020 $\pm$ 0.018  $\chi^2$ /NDF: 1.8/7

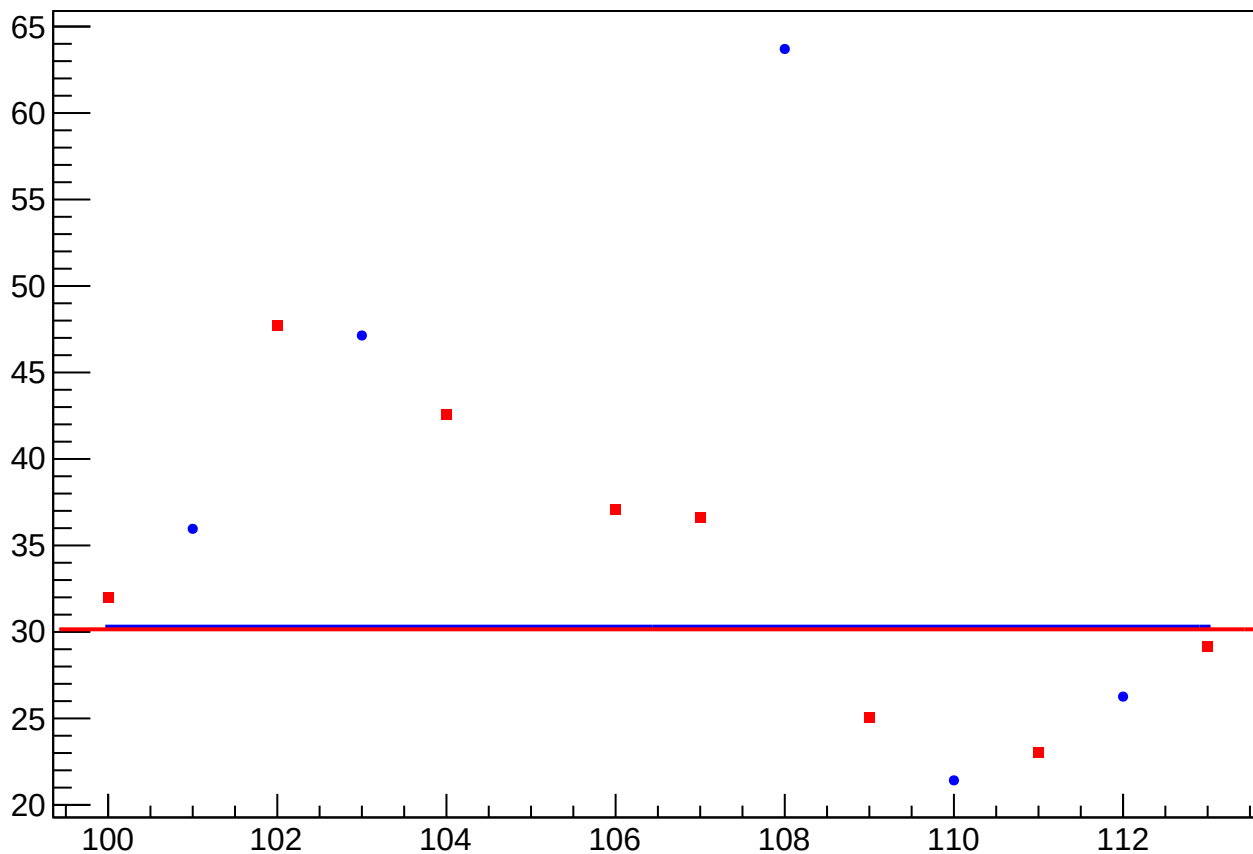
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.014  $\chi^2$ /NDF: 9.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 30.305+/-0.015  $\chi^2/\text{NDF}$ : 523489.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30.152+/-0.013  $\chi^2/\text{NDF}$ : 405255.2/7

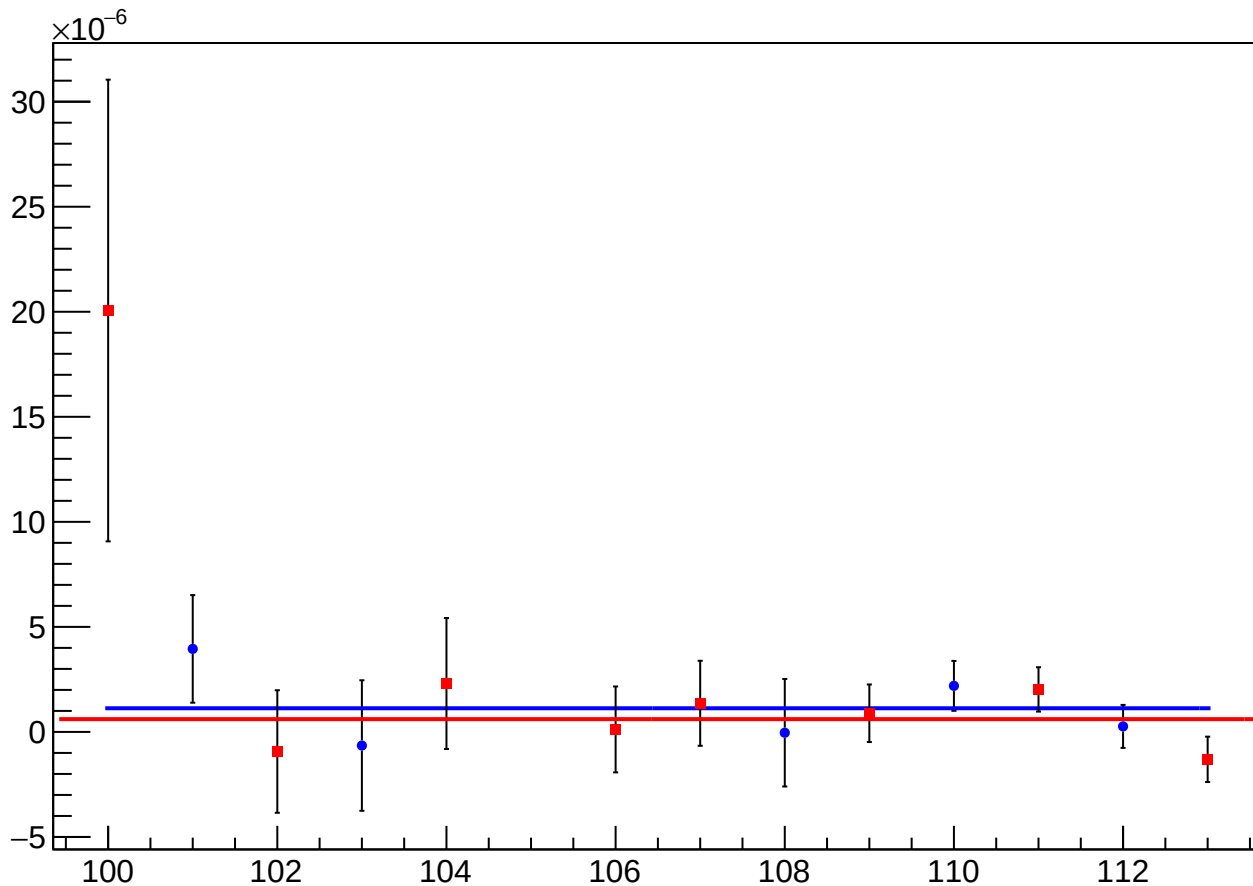
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.218+/-0.010  $\chi^2/\text{NDF}$ : 928807.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.9/7

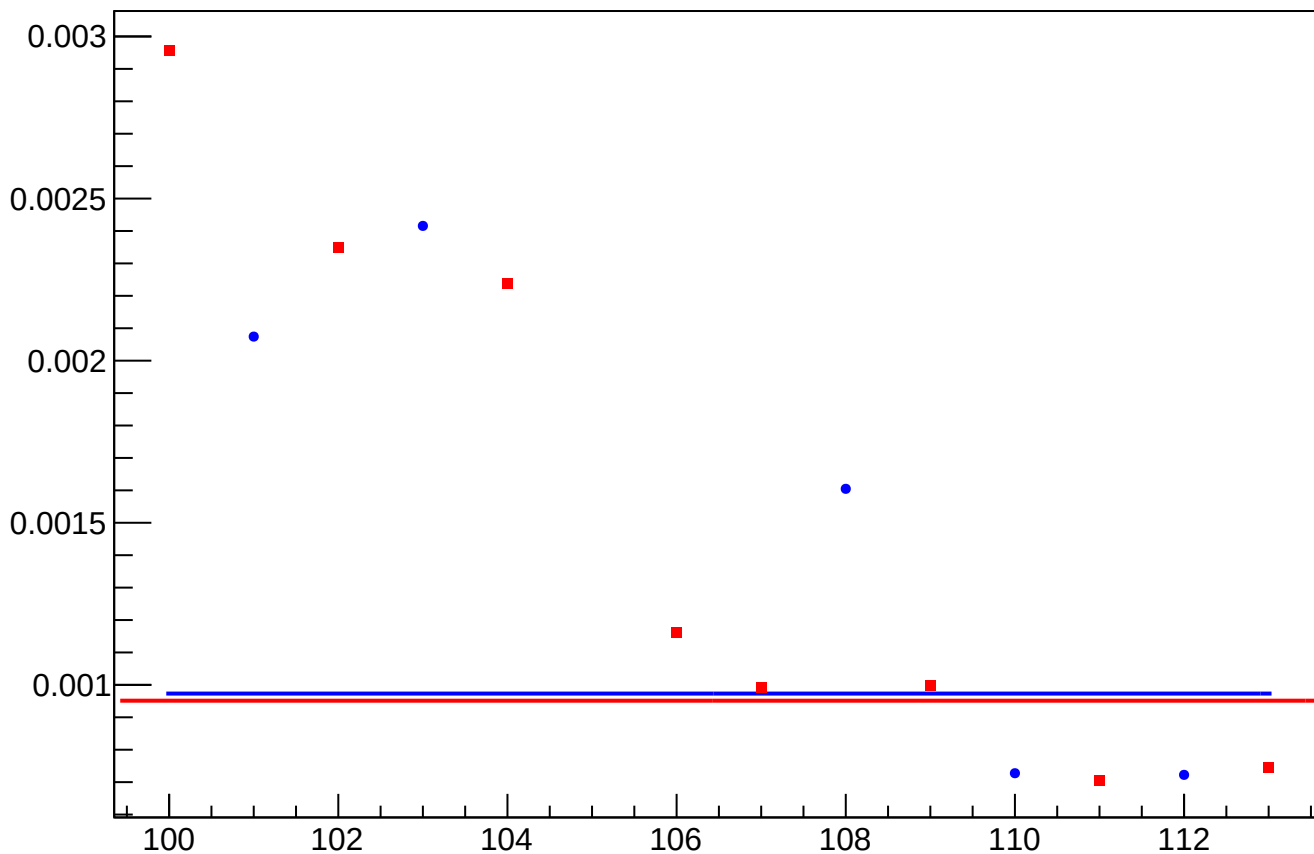
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1128651.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1074178.0/7

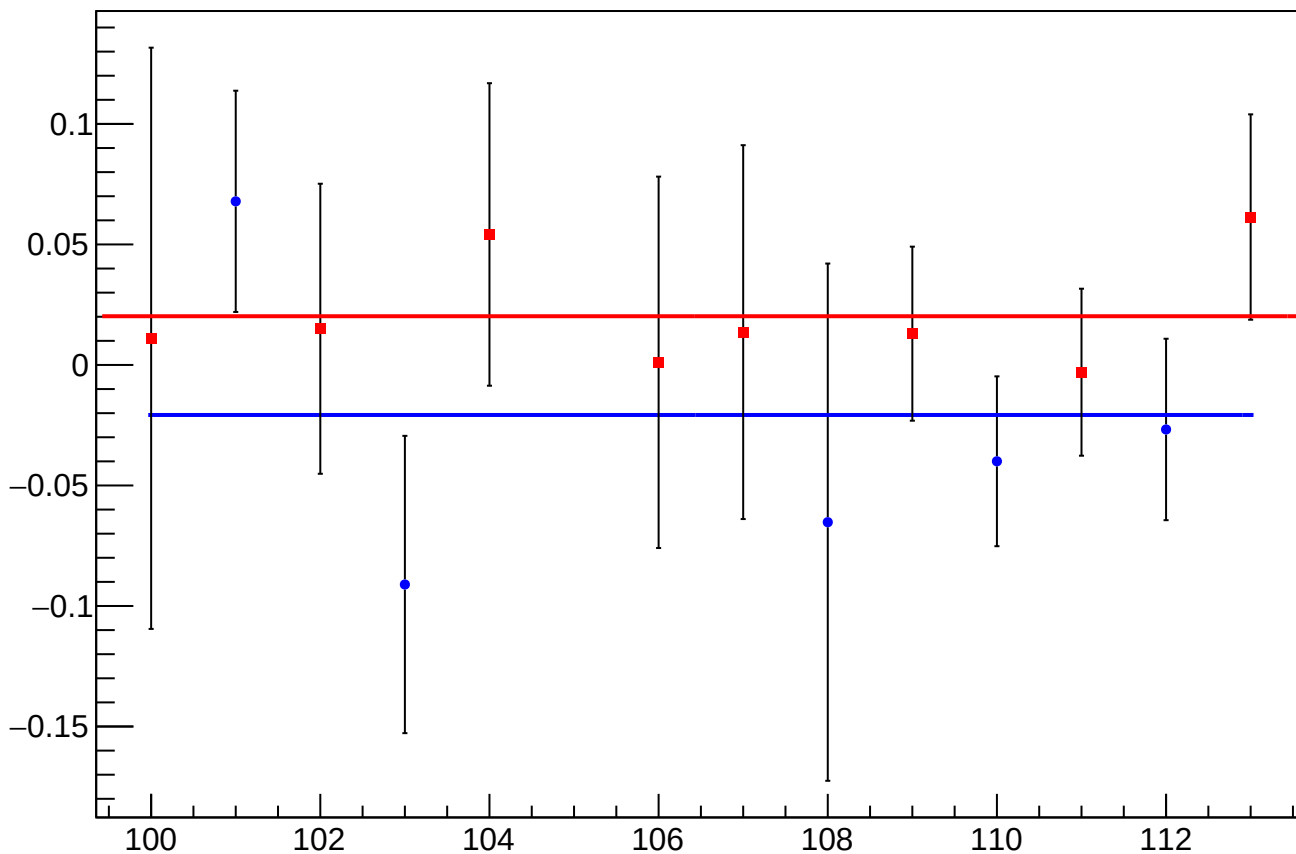
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2204008.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.021 $\pm$ 0.021  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.020 $\pm$ 0.018  $\chi^2$ /NDF: 1.8/7

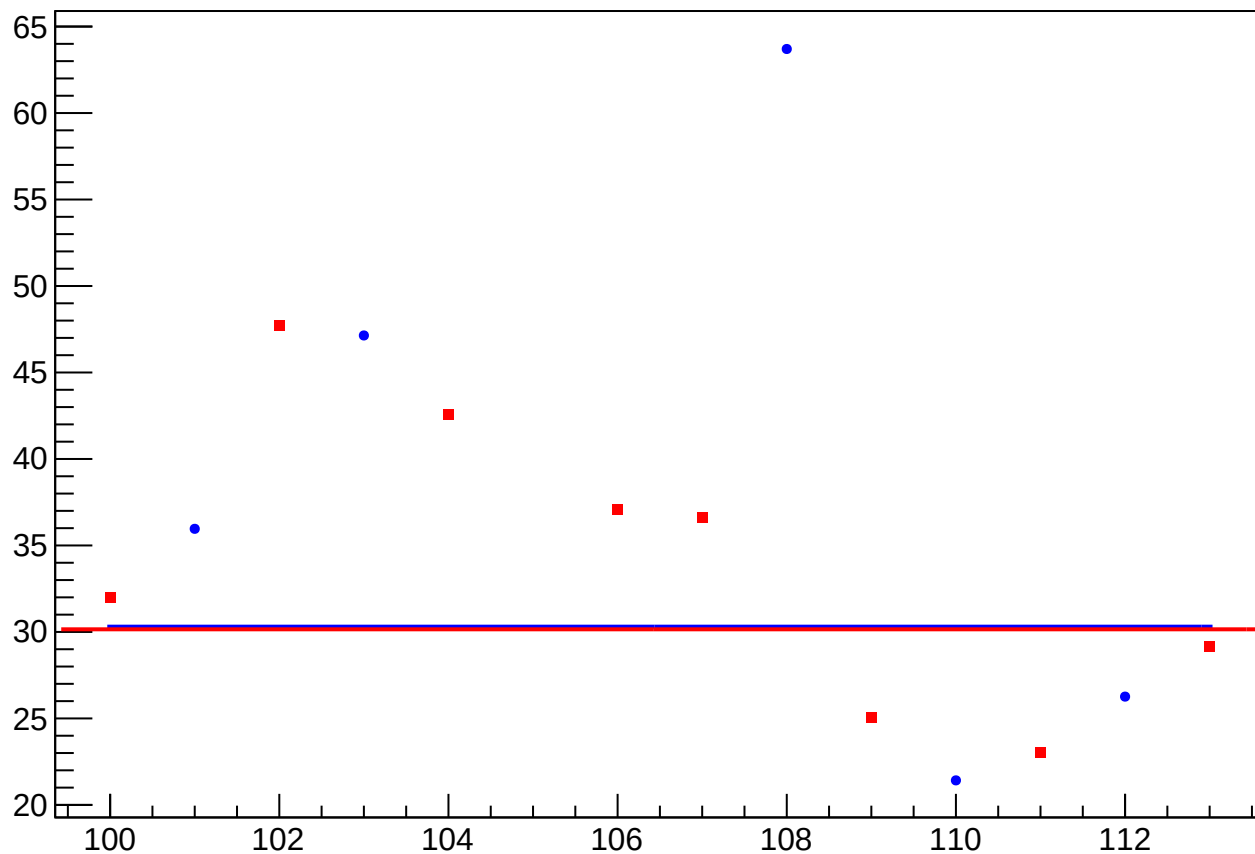
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.014  $\chi^2$ /NDF: 9.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 30.305+/-0.015  $\chi^2/\text{NDF}$ : 523521.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30.152+/-0.013  $\chi^2/\text{NDF}$ : 405263.1/7

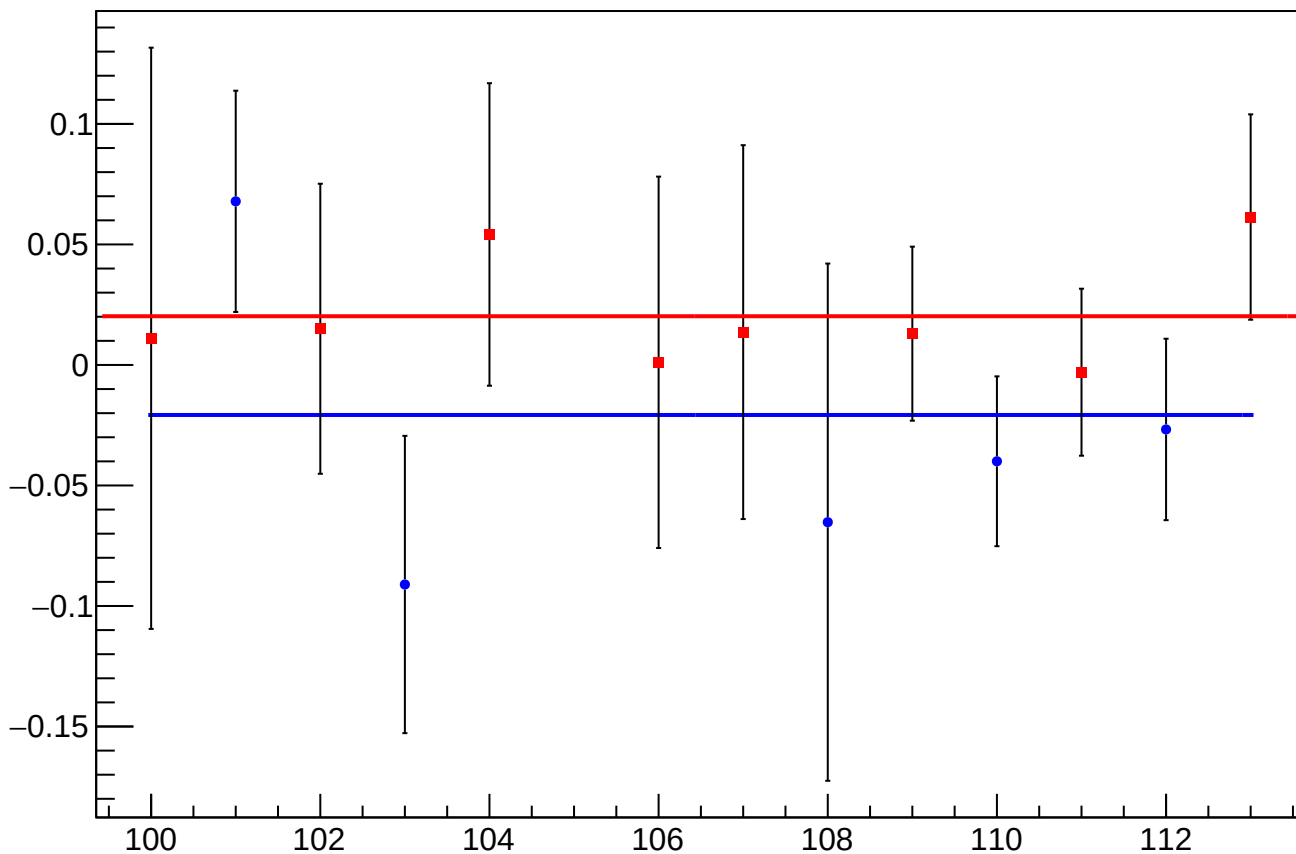
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.218+/-0.010  $\chi^2/\text{NDF}$ : 928846.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.021 $\pm$ 0.021  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.020 $\pm$ 0.018  $\chi^2$ /NDF: 1.8/7

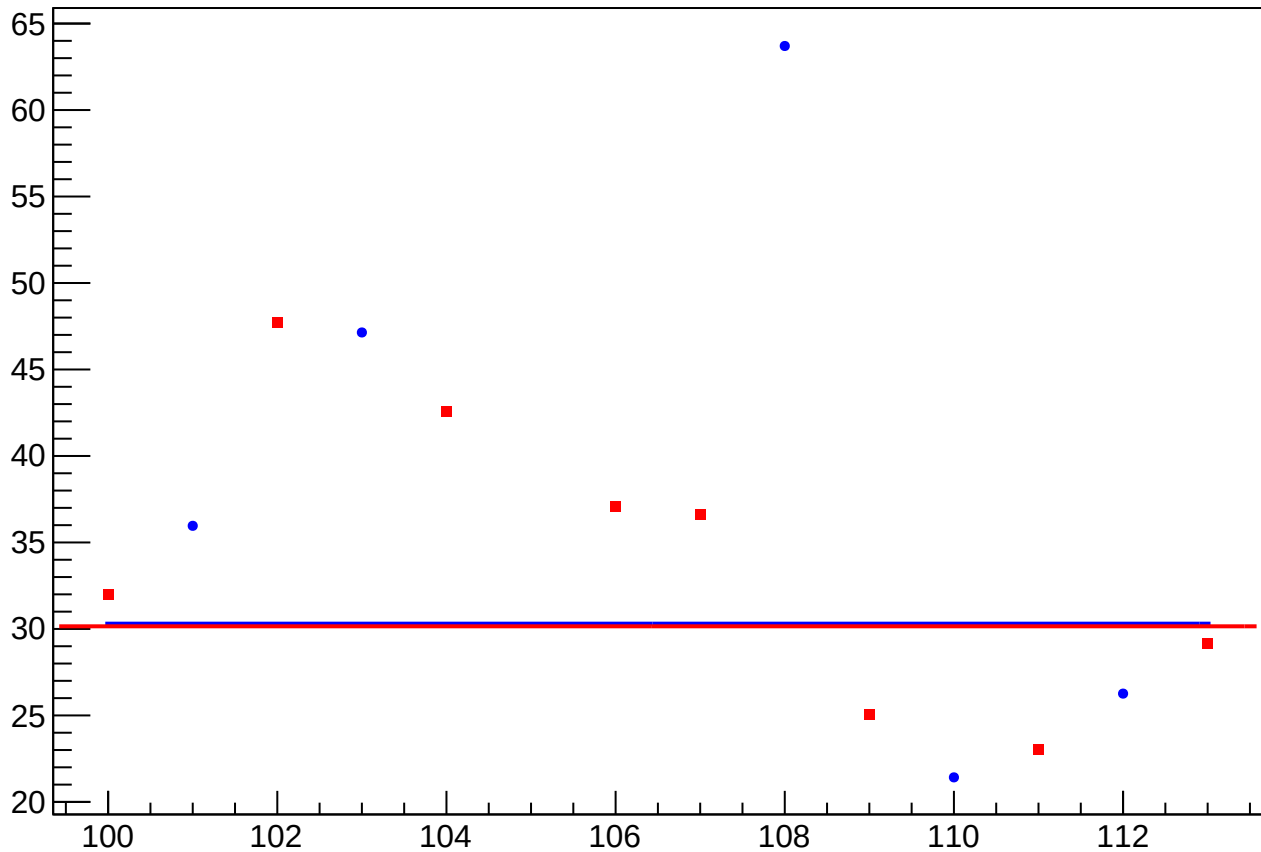
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.014  $\chi^2$ /NDF: 9.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 30.305+/-0.015  $\chi^2/\text{NDF}$ : 523521.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30.152+/-0.013  $\chi^2/\text{NDF}$ : 405263.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

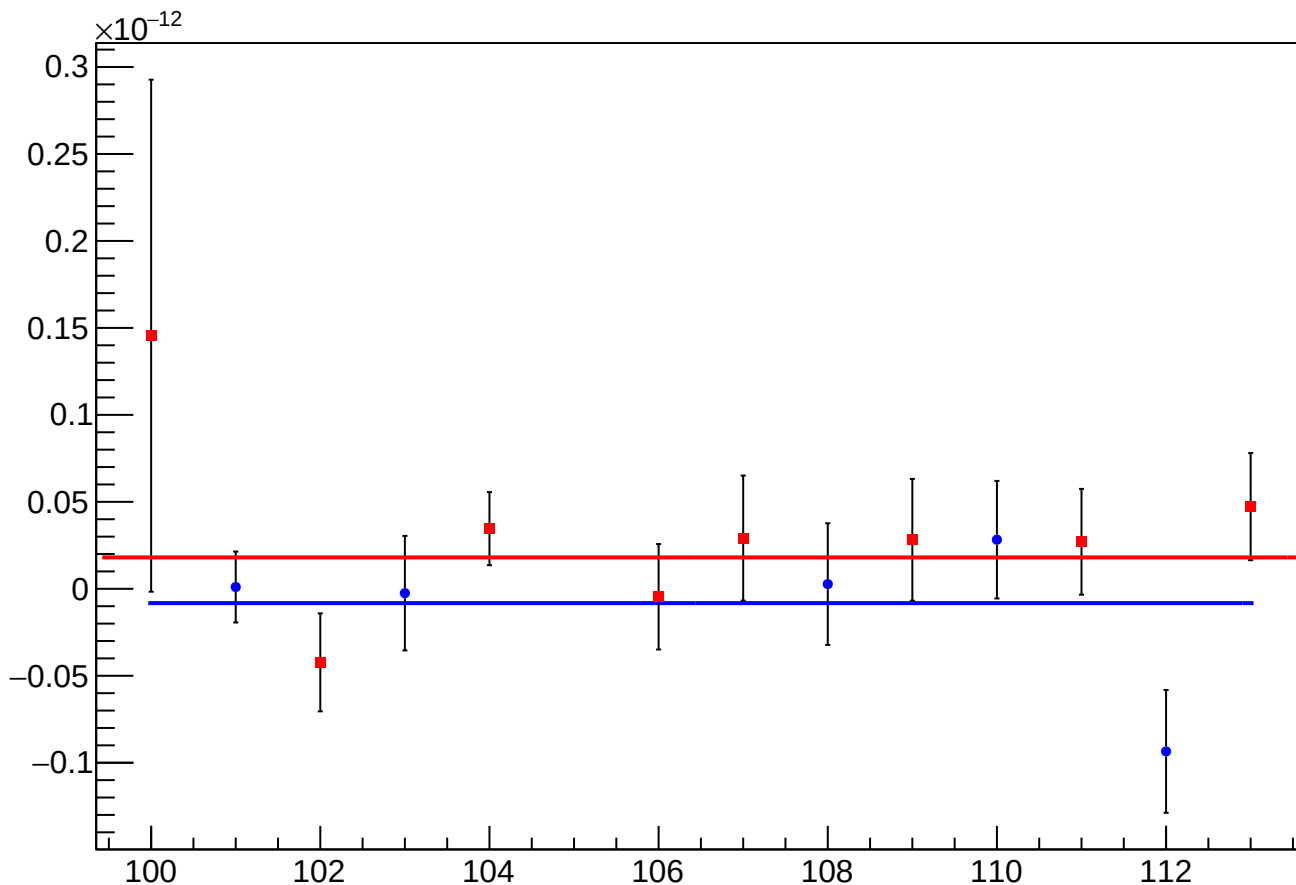
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.218+/-0.010  $\chi^2/\text{NDF}$ : 928846.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_13\_57\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.7/7

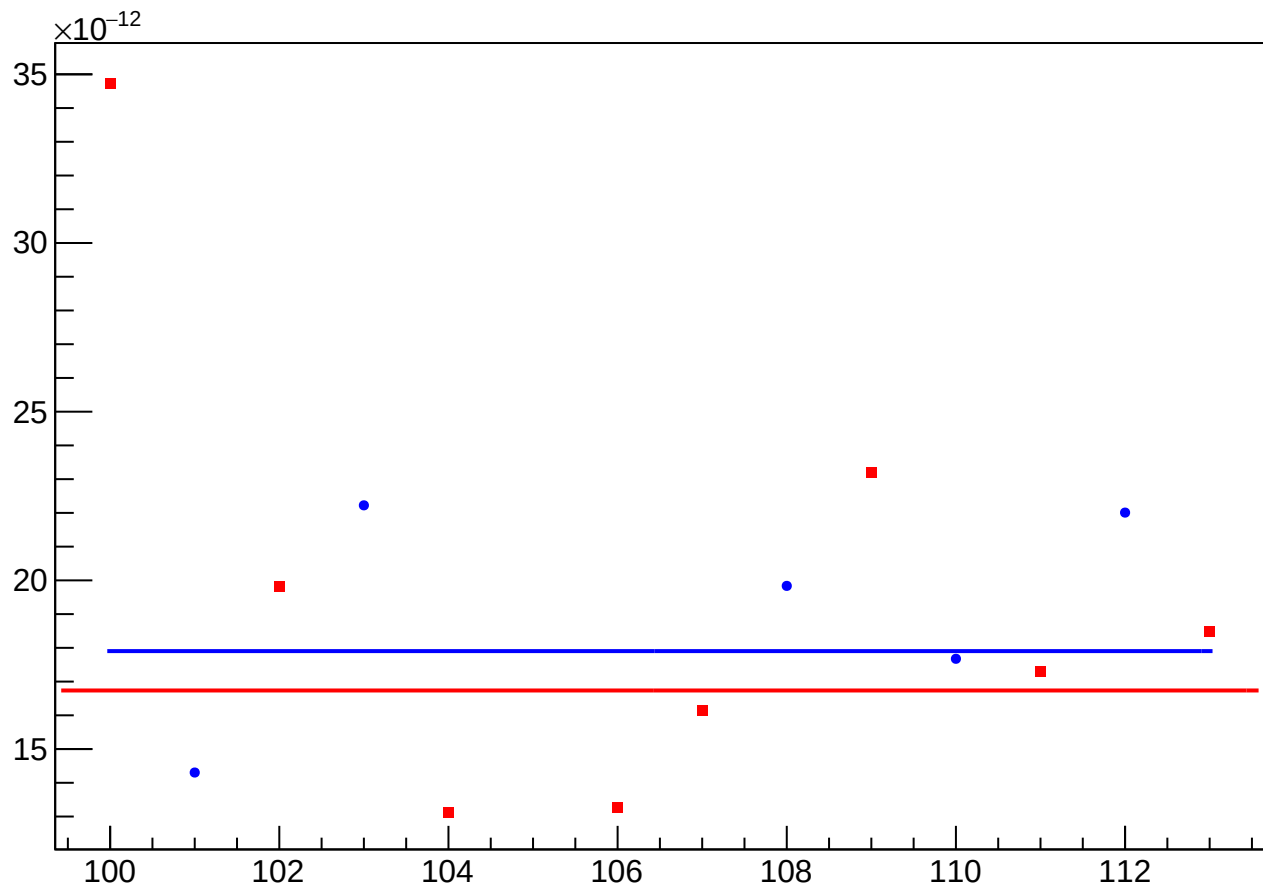
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 129985.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 214628.9/7

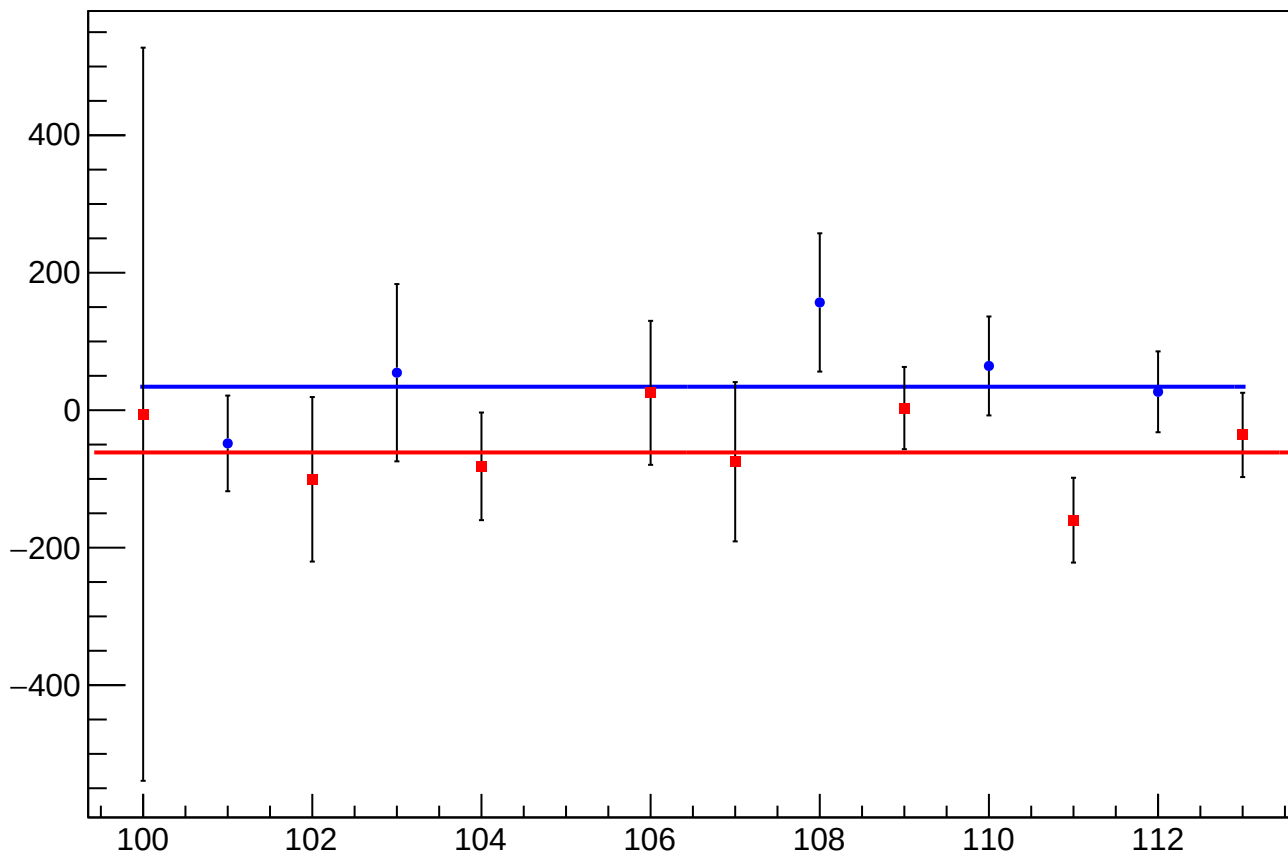
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 353976.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 34.158+/-34.350  $\chi^2/\text{NDF}$ : 3.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -61.464+/-28.749  $\chi^2/\text{NDF}$ : 4.8/7

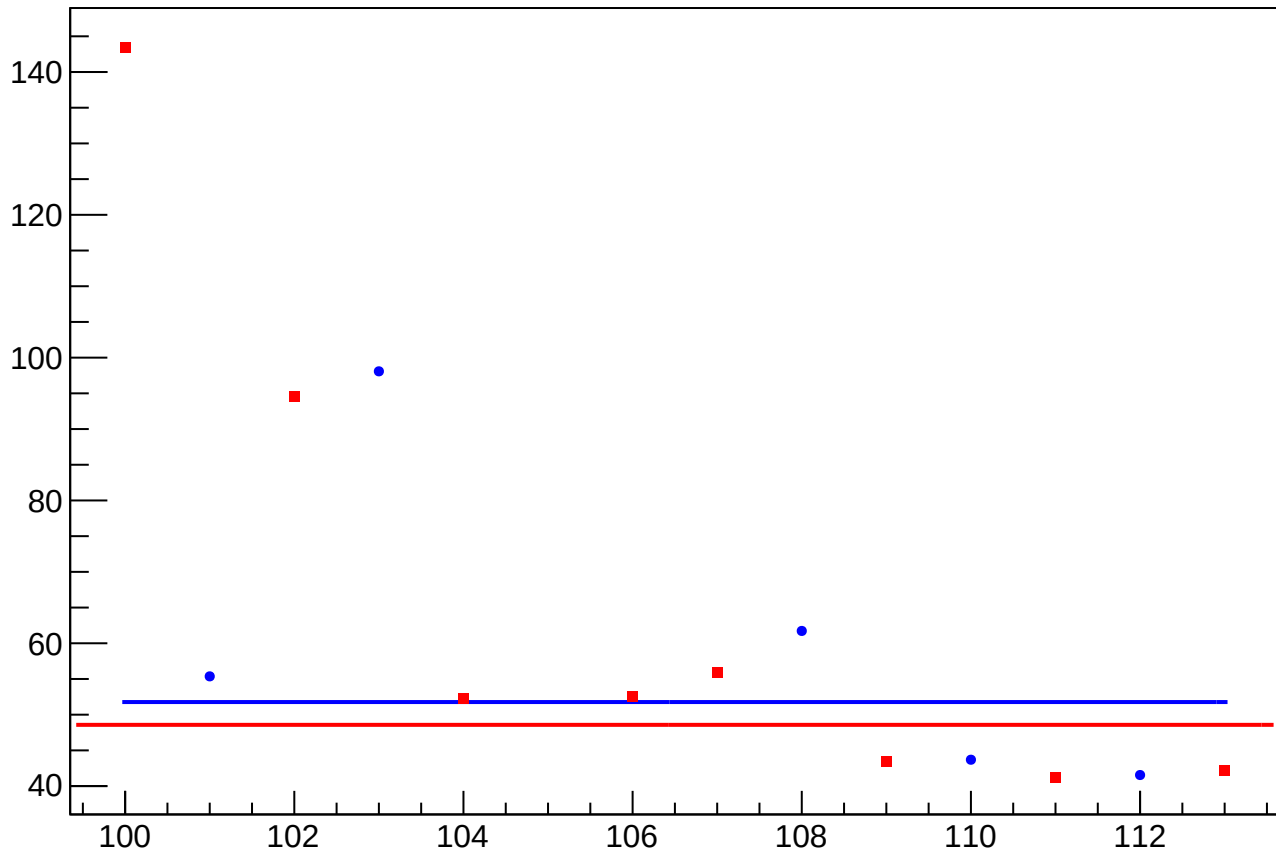
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -22.073+/-22.046  $\chi^2/\text{NDF}$ : 12.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 51.769+/-0.024  $\chi^2/\text{NDF}$ : 368419.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.577+/-0.020  $\chi^2/\text{NDF}$ : 438174.2/7

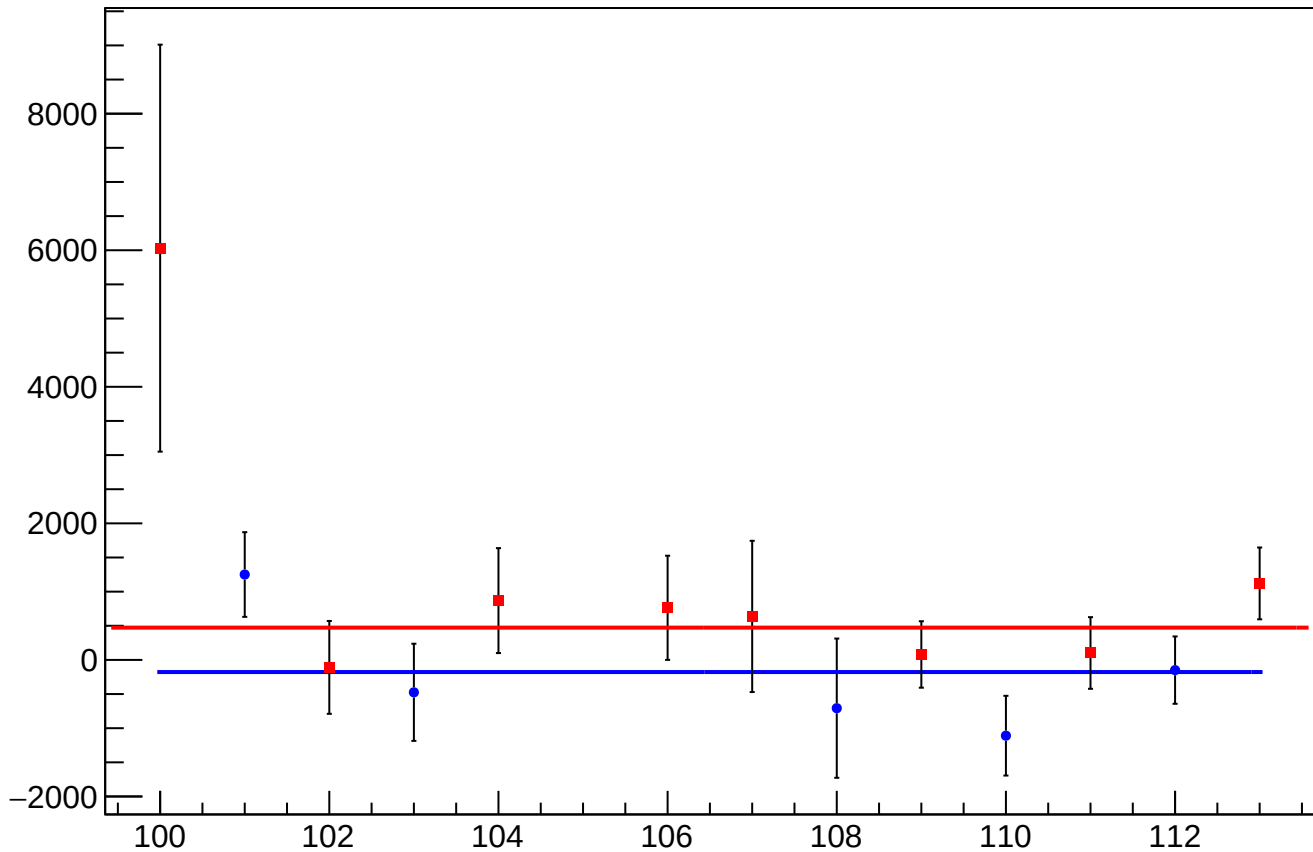
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.891+/-0.016  $\chi^2/\text{NDF}$ : 816751.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_reg\_correction\_mean vs Slug



Right In: -177.536 $\pm$ 281.905  $\chi^2$ /NDF: 8.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 472.932 $\pm$ 235.844  $\chi^2$ /NDF: 7.3/7

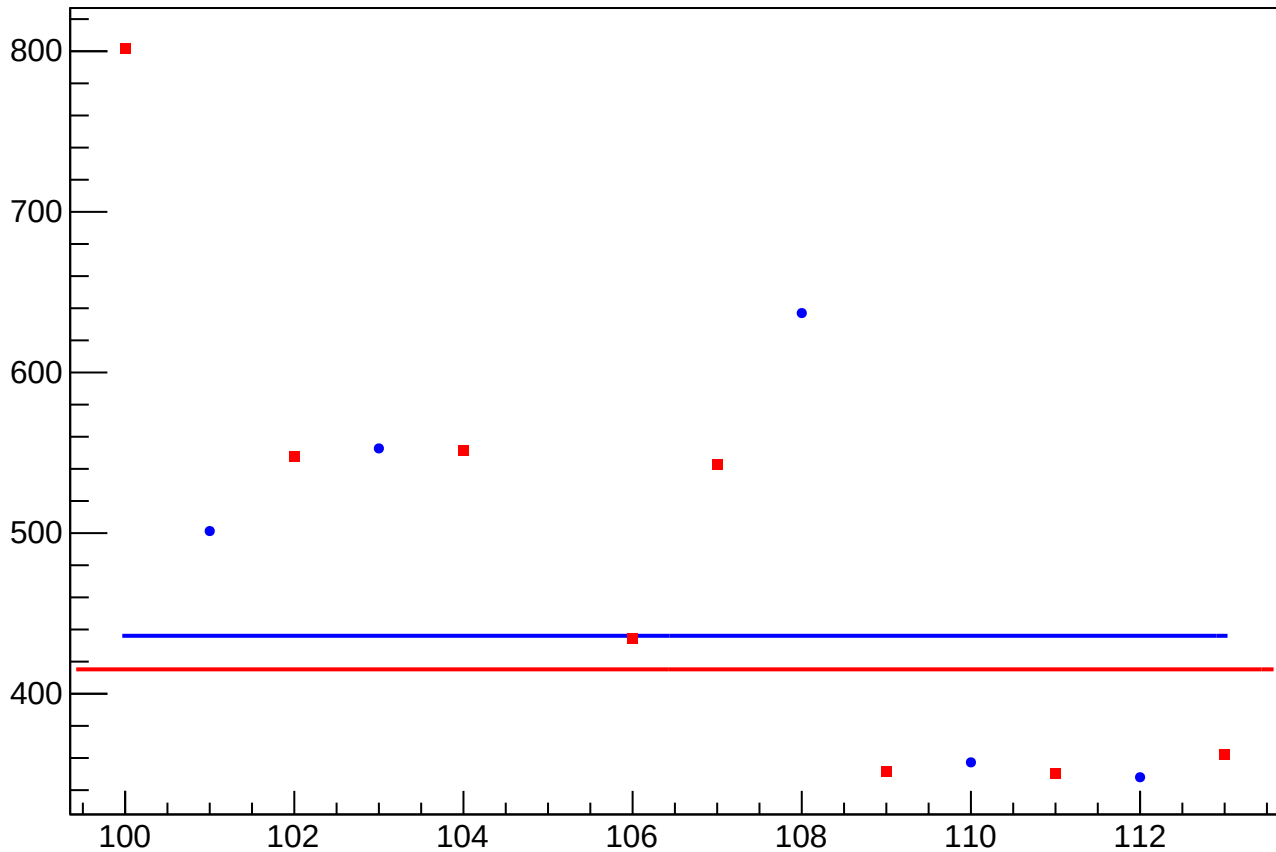
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 205.112 $\pm$ 180.889  $\chi^2$ /NDF: 18.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_reg\_correction\_rms vs Slug



Right In: 436.080 $\pm$ 0.199  $\chi^2$ /NDF: 253725.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 415.189 $\pm$ 0.167  $\chi^2$ /NDF: 285900.5/7

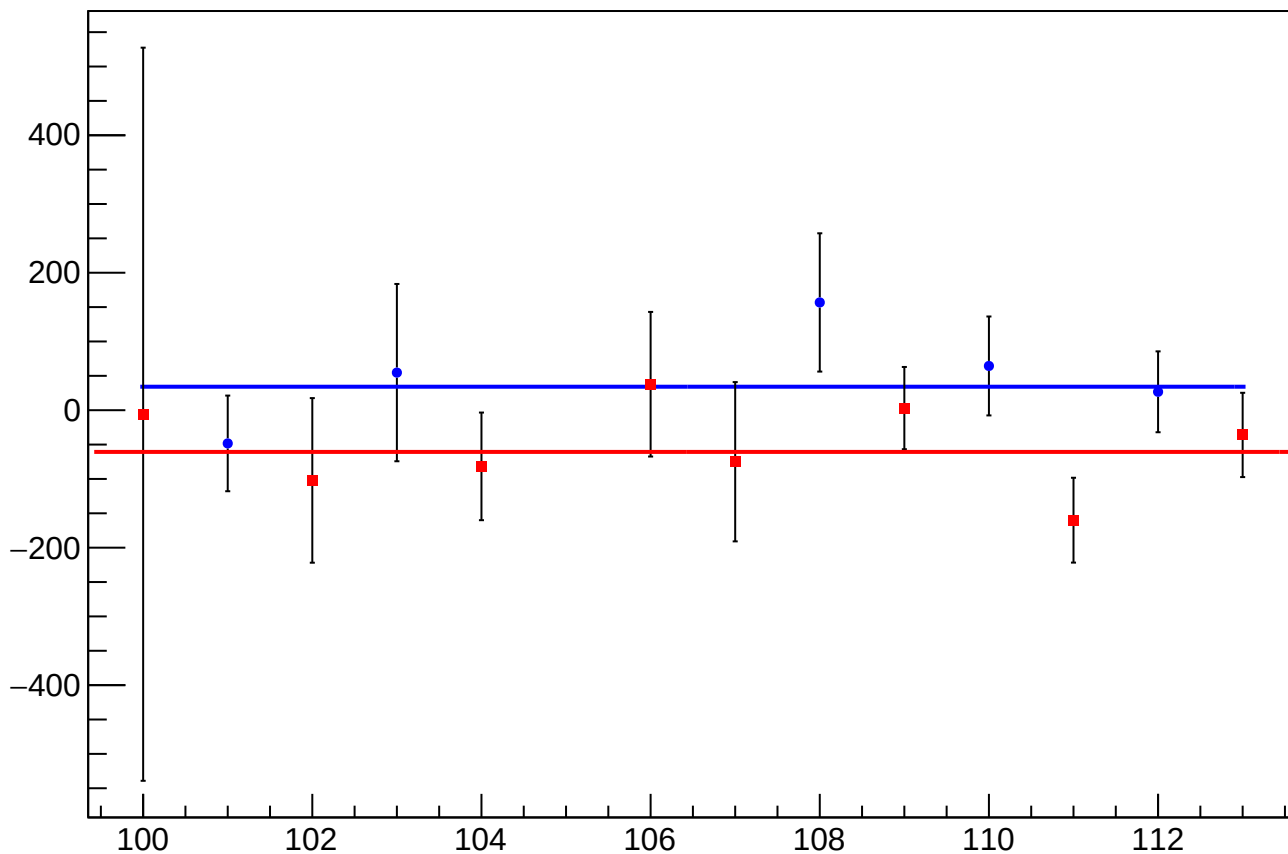
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 423.791 $\pm$ 0.128  $\chi^2$ /NDF: 546087.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 34.174+/-34.350  $\chi^2/\text{NDF}$ : 3.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -60.681+/-28.759  $\chi^2/\text{NDF}$ : 5.0/7

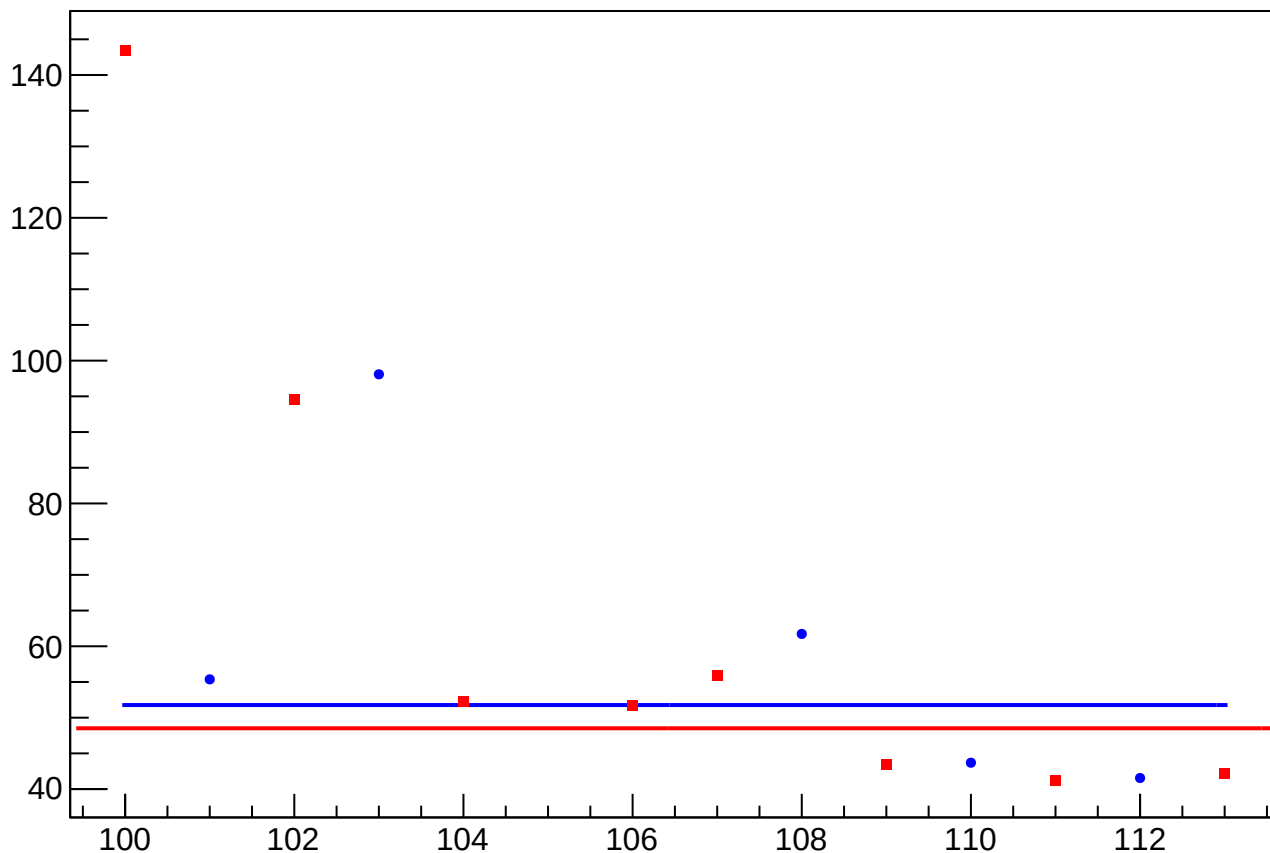
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.590+/-22.051  $\chi^2/\text{NDF}$ : 12.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 51.769+/-0.024  $\chi^2/\text{NDF}$ : 368422.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.513+/-0.020  $\chi^2/\text{NDF}$ : 437335.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

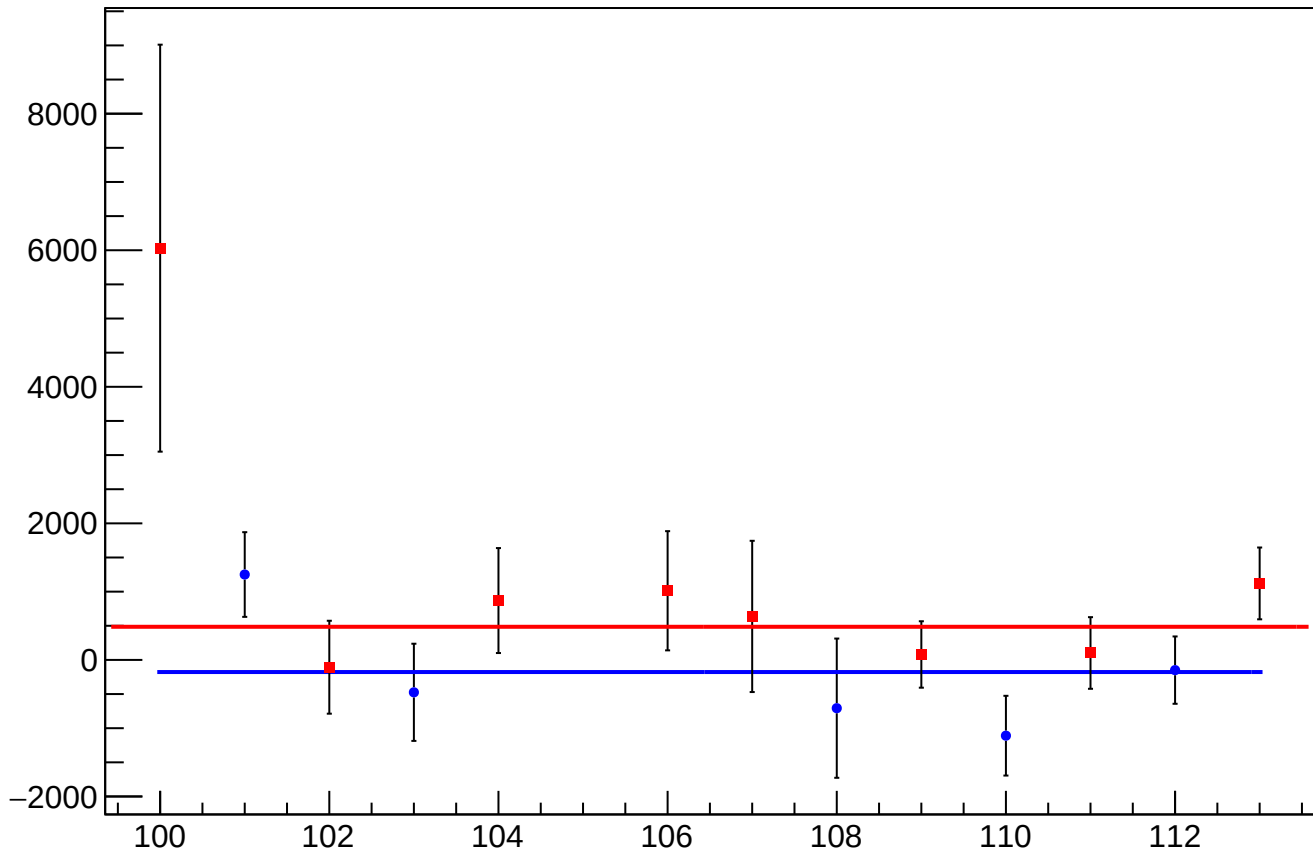
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.855+/-0.016  $\chi^2/\text{NDF}$ : 816321.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_37\_dd\_cor\_correction\_mean vs Slug



Right In: -177.537 $\pm$ 281.909  $\chi^2$ /NDF: 8.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 485.322 $\pm$ 238.578  $\chi^2$ /NDF: 7.5/7

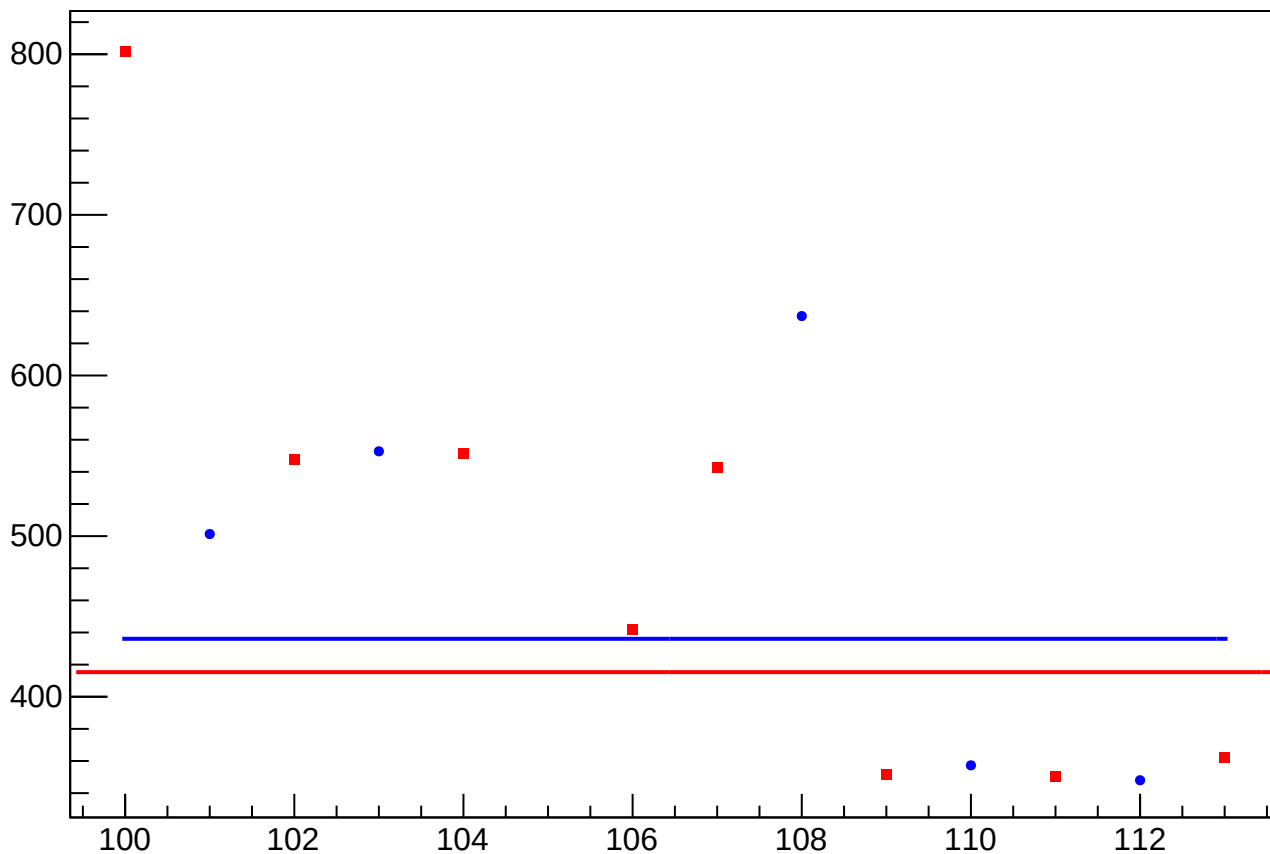
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 208.696 $\pm$ 182.115  $\chi^2$ /NDF: 19.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_cor\_correction\_rms vs Slug



Right In: 436.084+/-0.199  $\chi^2/\text{NDF}$ : 253765.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 415.321+/-0.169  $\chi^2/\text{NDF}$ : 286819.9/7

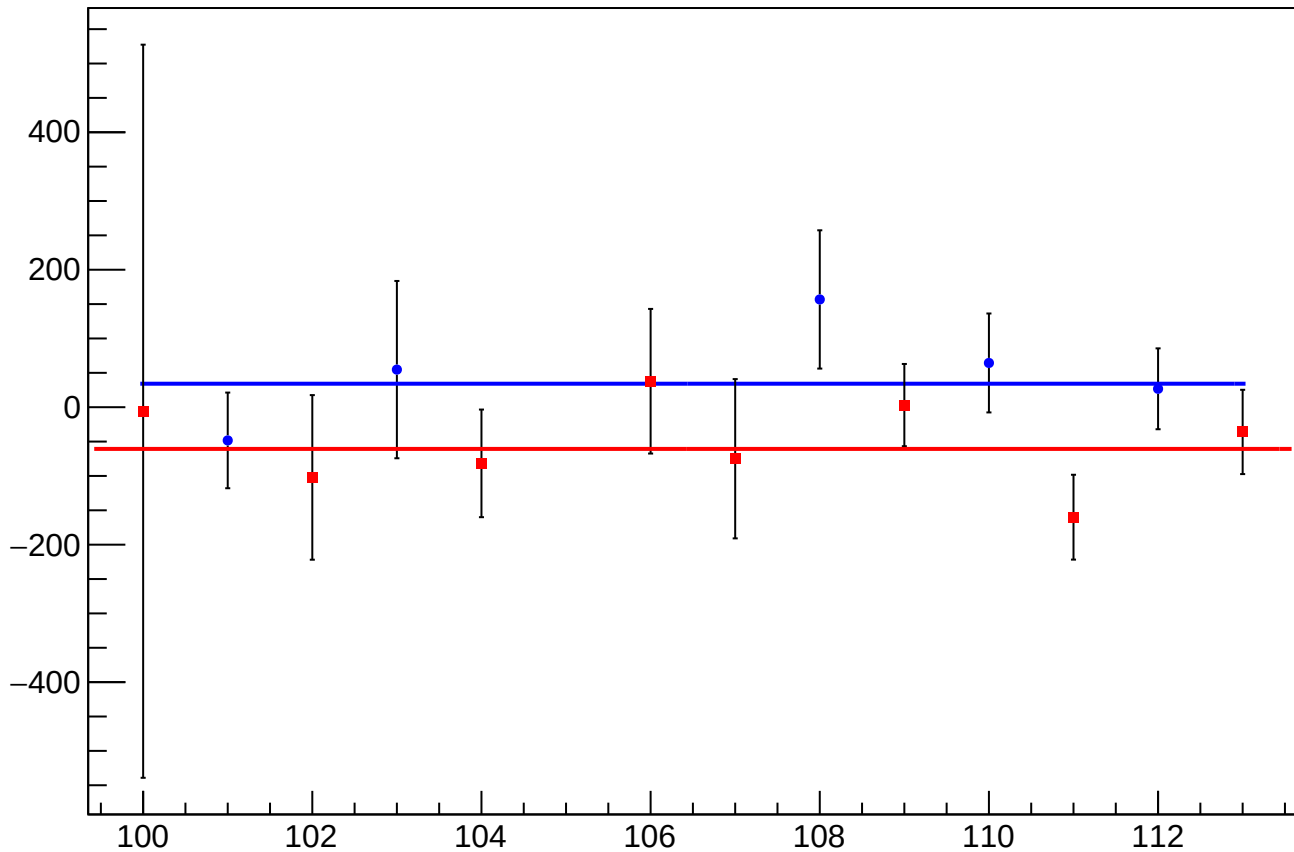
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 423.986+/-0.129  $\chi^2/\text{NDF}$ : 546906.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 34.174+/-34.350  $\chi^2/\text{NDF}$ : 3.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -60.681+/-28.759  $\chi^2/\text{NDF}$ : 5.0/7

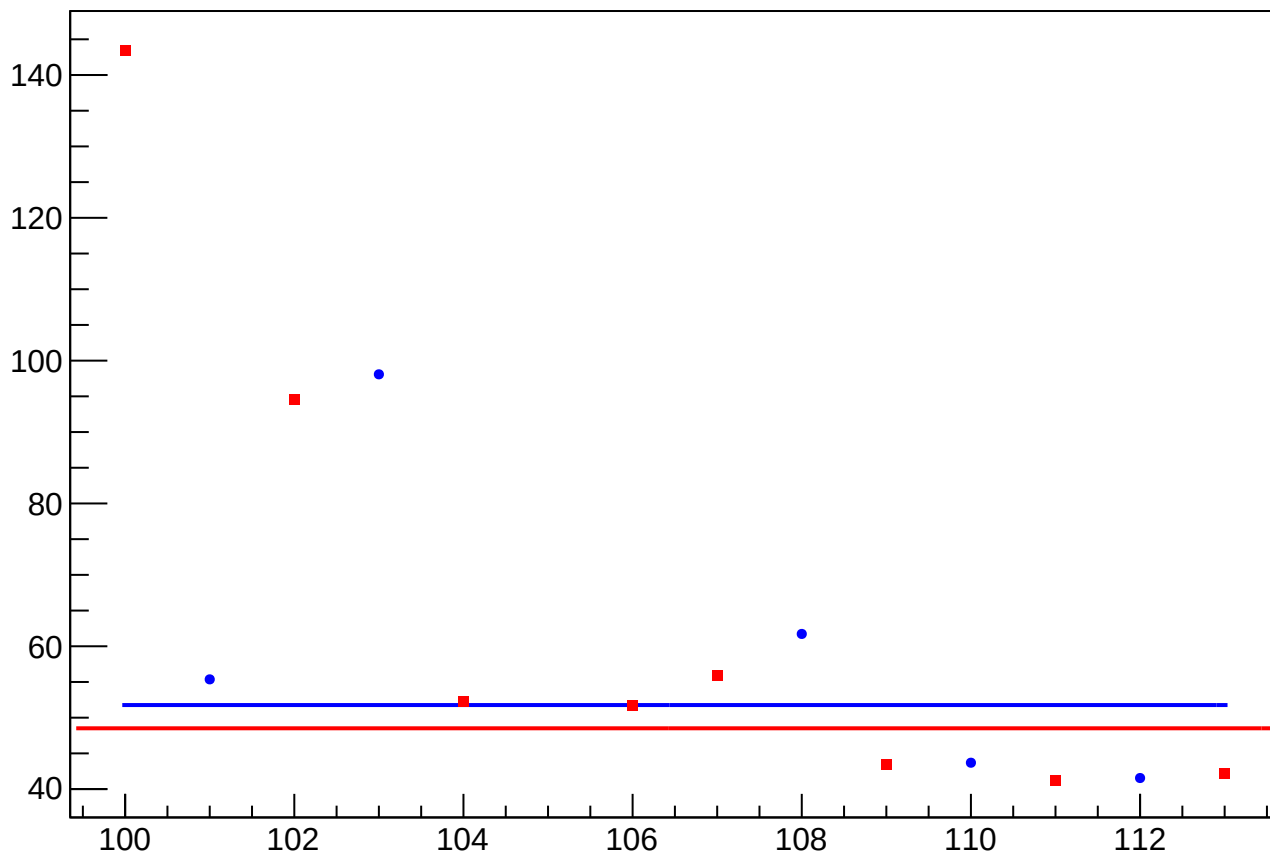
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.590+/-22.051  $\chi^2/\text{NDF}$ : 12.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 51.769 $\pm$ 0.024  $\chi^2$ /NDF: 368422.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.513 $\pm$ 0.020  $\chi^2$ /NDF: 437335.0/7

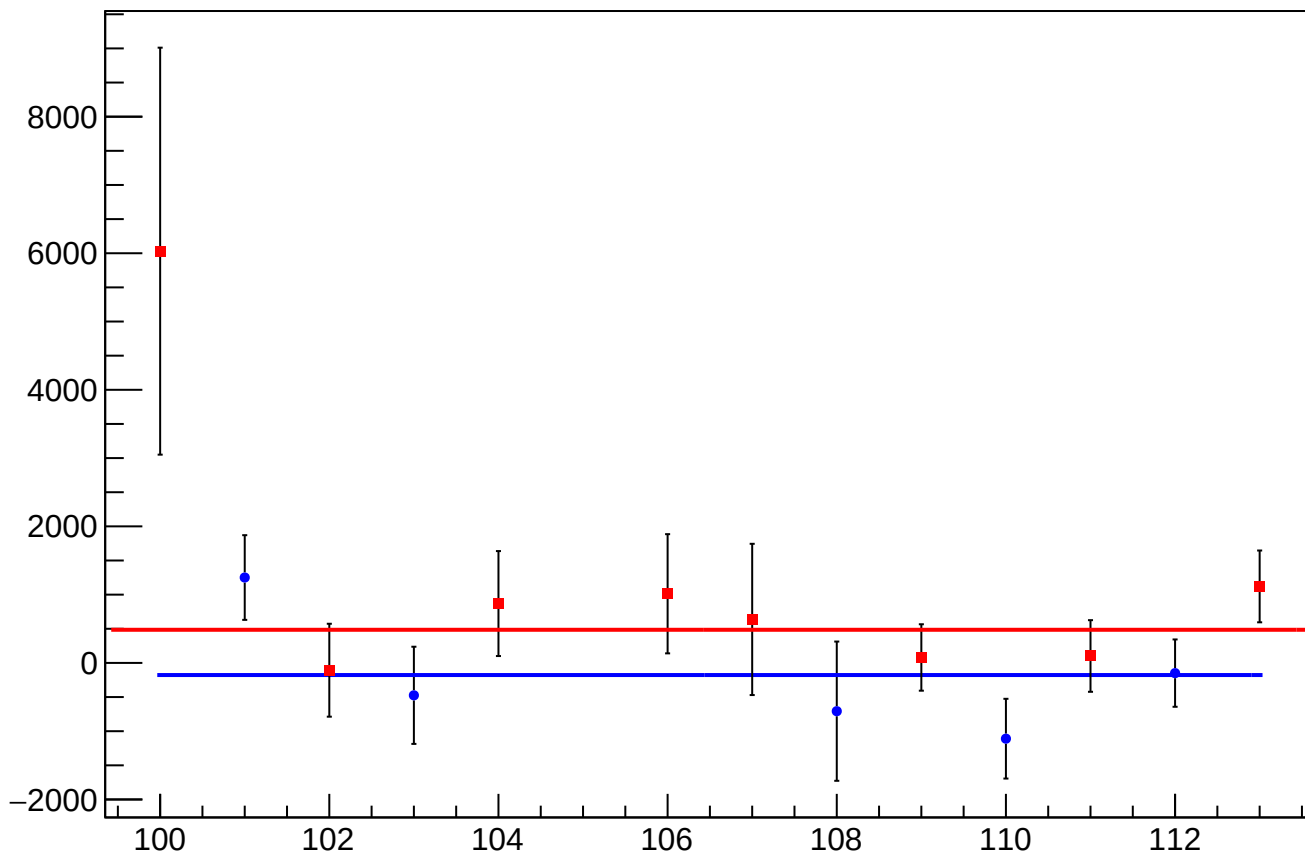
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 49.855 $\pm$ 0.016  $\chi^2$ /NDF: 816321.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -177.537 $\pm$ 281.909  $\chi^2$ /NDF: 8.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 485.322 $\pm$ 238.578  $\chi^2$ /NDF: 7.5/7

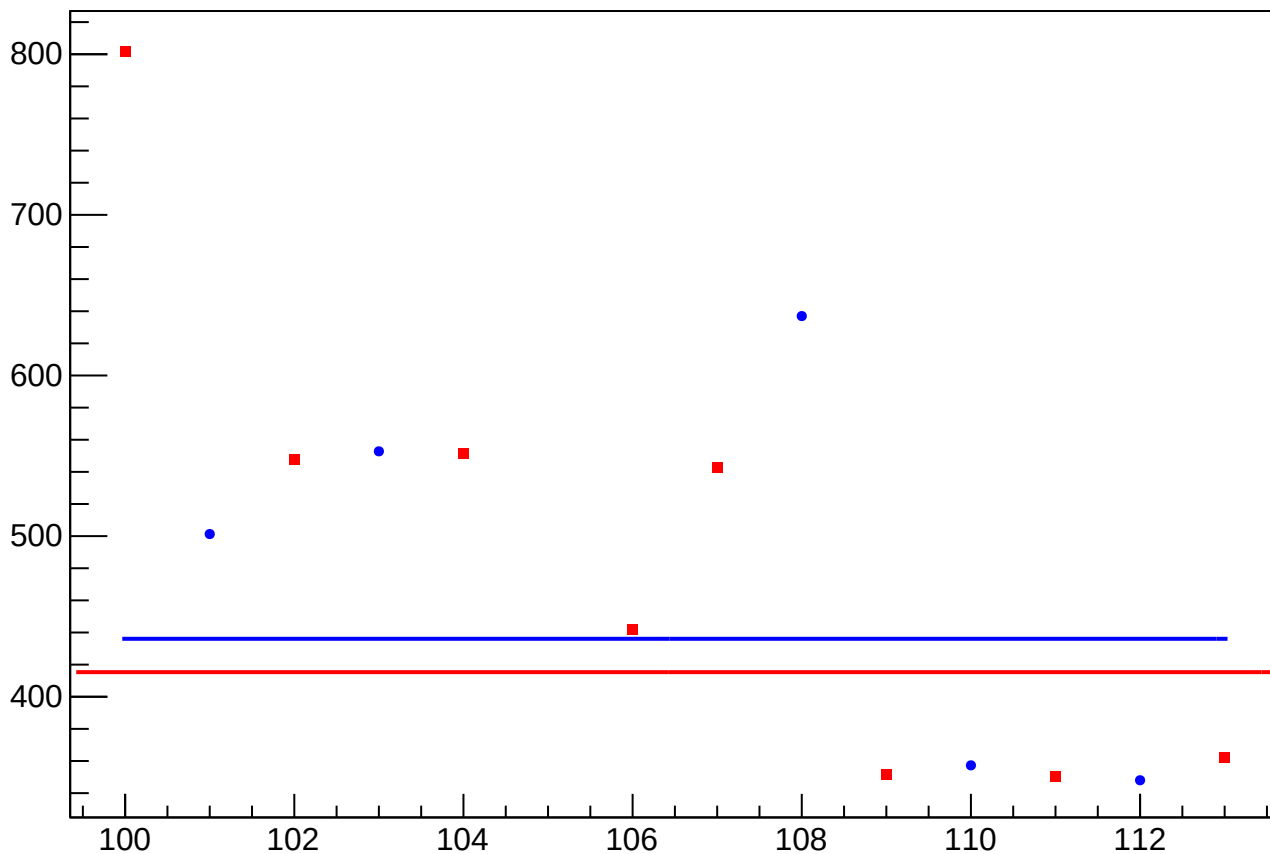
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 208.696 $\pm$ 182.115  $\chi^2$ /NDF: 19.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 436.084+/-0.199  $\chi^2/\text{NDF}$ : 253765.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 415.321+/-0.169  $\chi^2/\text{NDF}$ : 286819.9/7

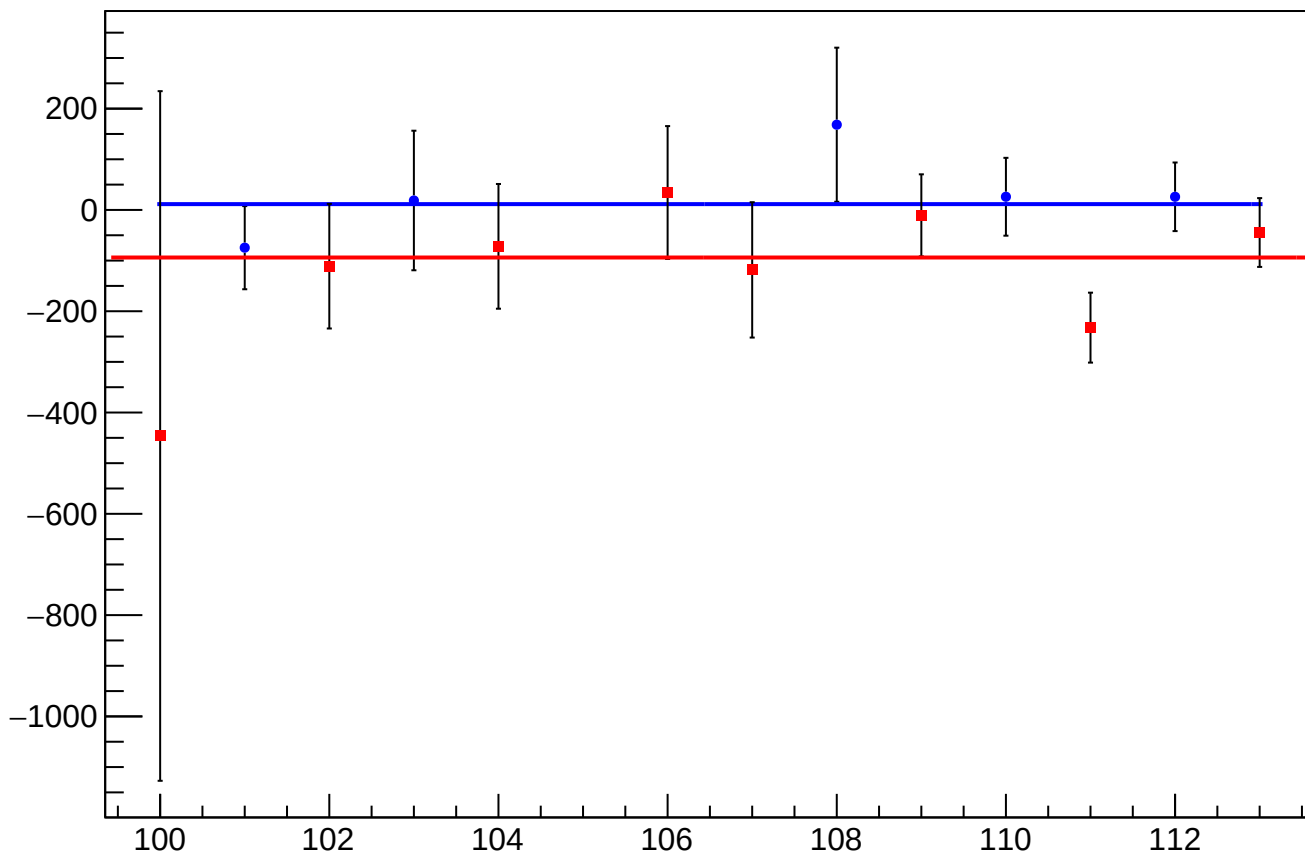
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 423.986+/-0.129  $\chi^2/\text{NDF}$ : 546906.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 11.484 $\pm$ 39.787  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -93.925 $\pm$ 34.769  $\chi^2$ /NDF: 6.9/7

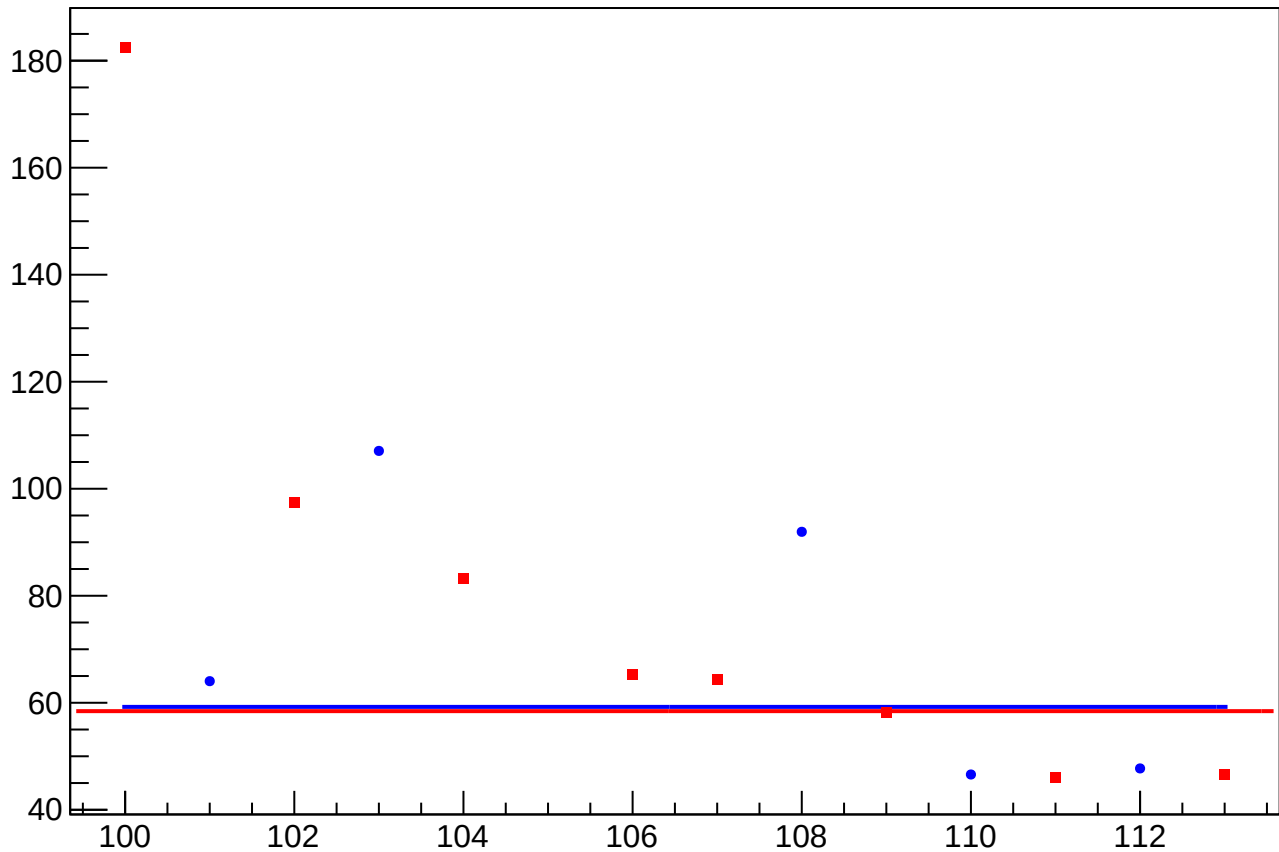
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -48.282 $\pm$ 26.181  $\chi^2$ /NDF: 13.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 59.231+/-0.028  $\chi^2/\text{NDF}$ : 452341.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 58.435+/-0.025  $\chi^2/\text{NDF}$ : 481668.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

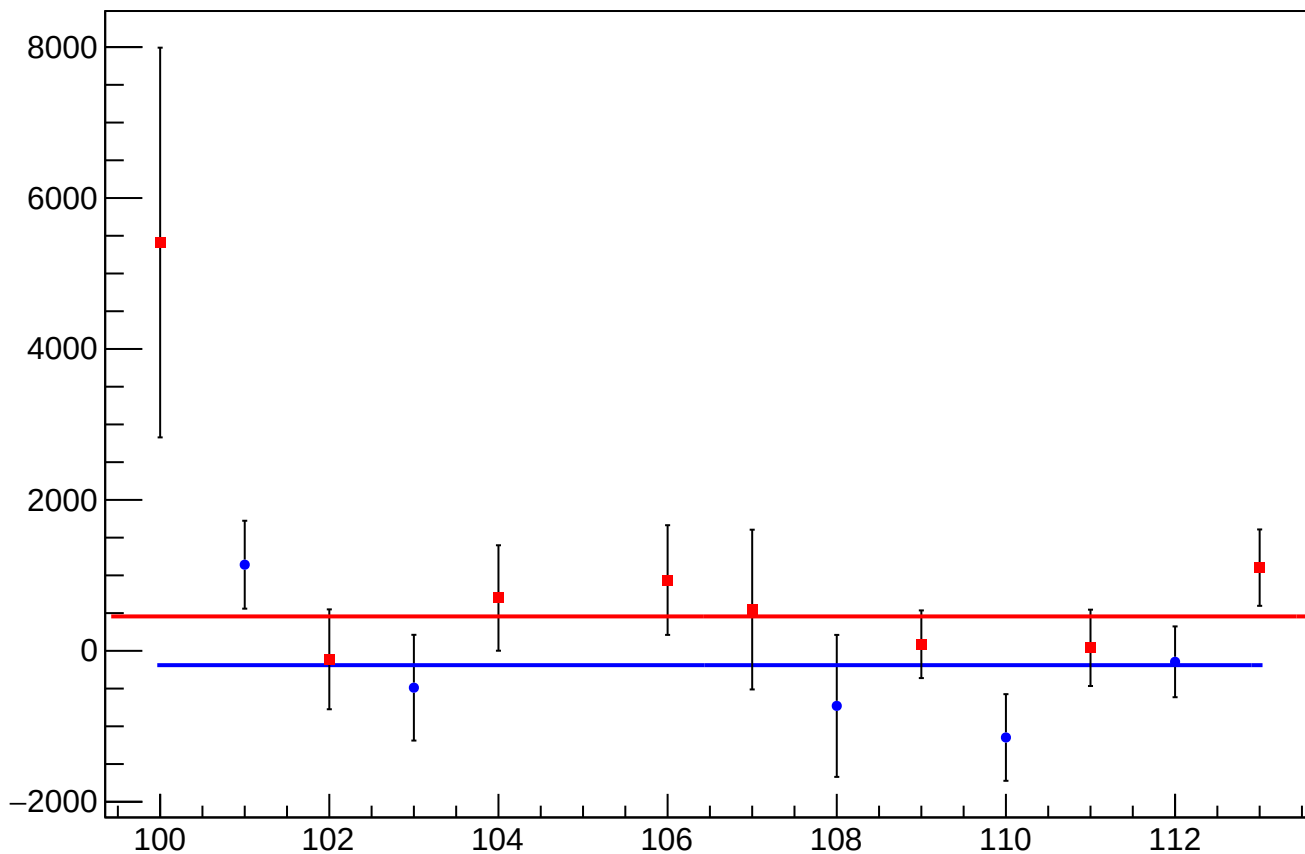
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 58.780+/-0.019  $\chi^2/\text{NDF}$ : 934463.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_37\_dd\_dit\_correction\_mean vs Slug



Right In: -189.729+/-270.220  $\chi^2/\text{NDF}$ : 8.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 456.111+/-223.281  $\chi^2/\text{NDF}$ : 8.0/7

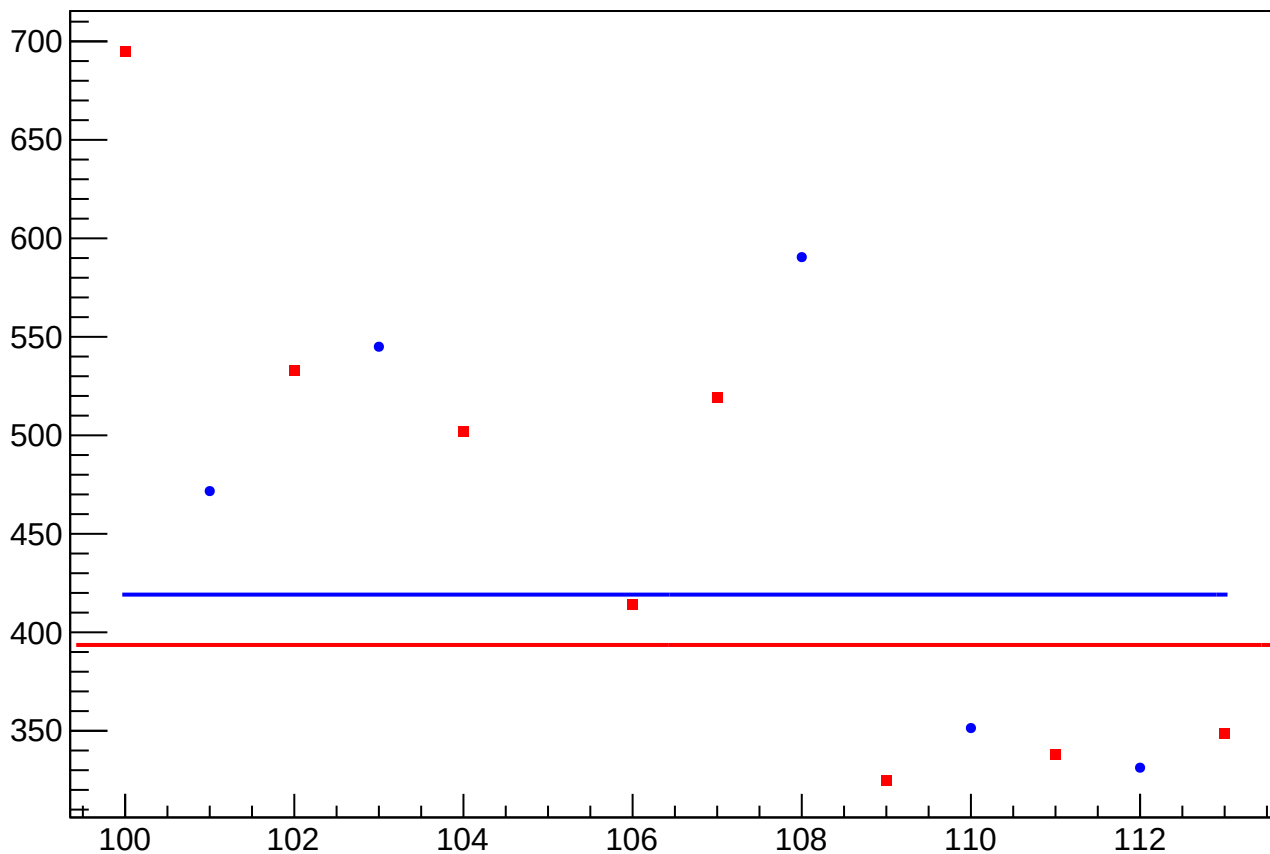
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 194.069+/-172.124  $\chi^2/\text{NDF}$ : 19.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_dit\_correction\_rms vs Slug



Right In: 419.146 $\pm$ 0.191  $\chi^2$ /NDF: 245172.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 393.581 $\pm$ 0.158  $\chi^2$ /NDF: 280817.0/7

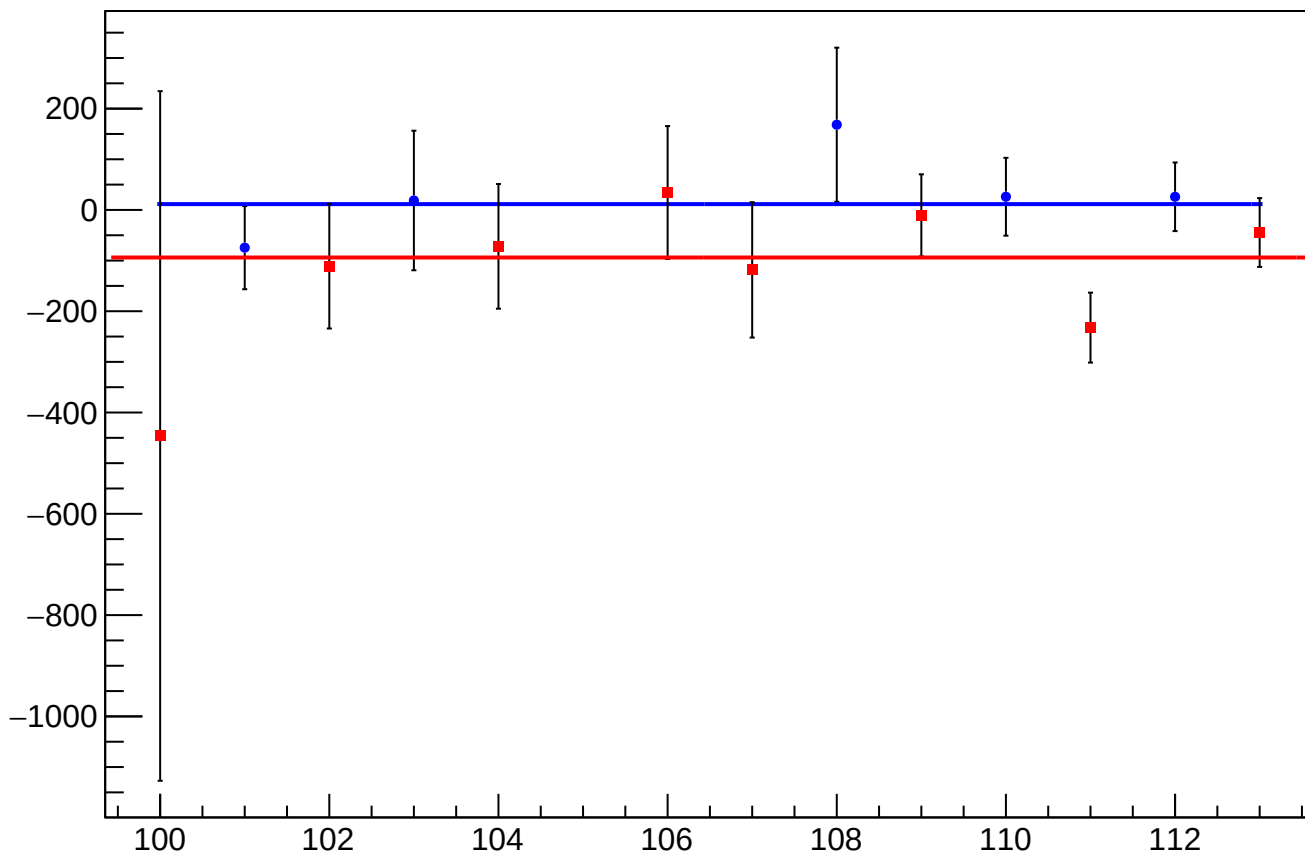
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 403.954 $\pm$ 0.122  $\chi^2$ /NDF: 536628.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 11.484+/-39.787  $\chi^2/\text{NDF}$ : 2.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -93.926+/-34.770  $\chi^2/\text{NDF}$ : 6.9/7

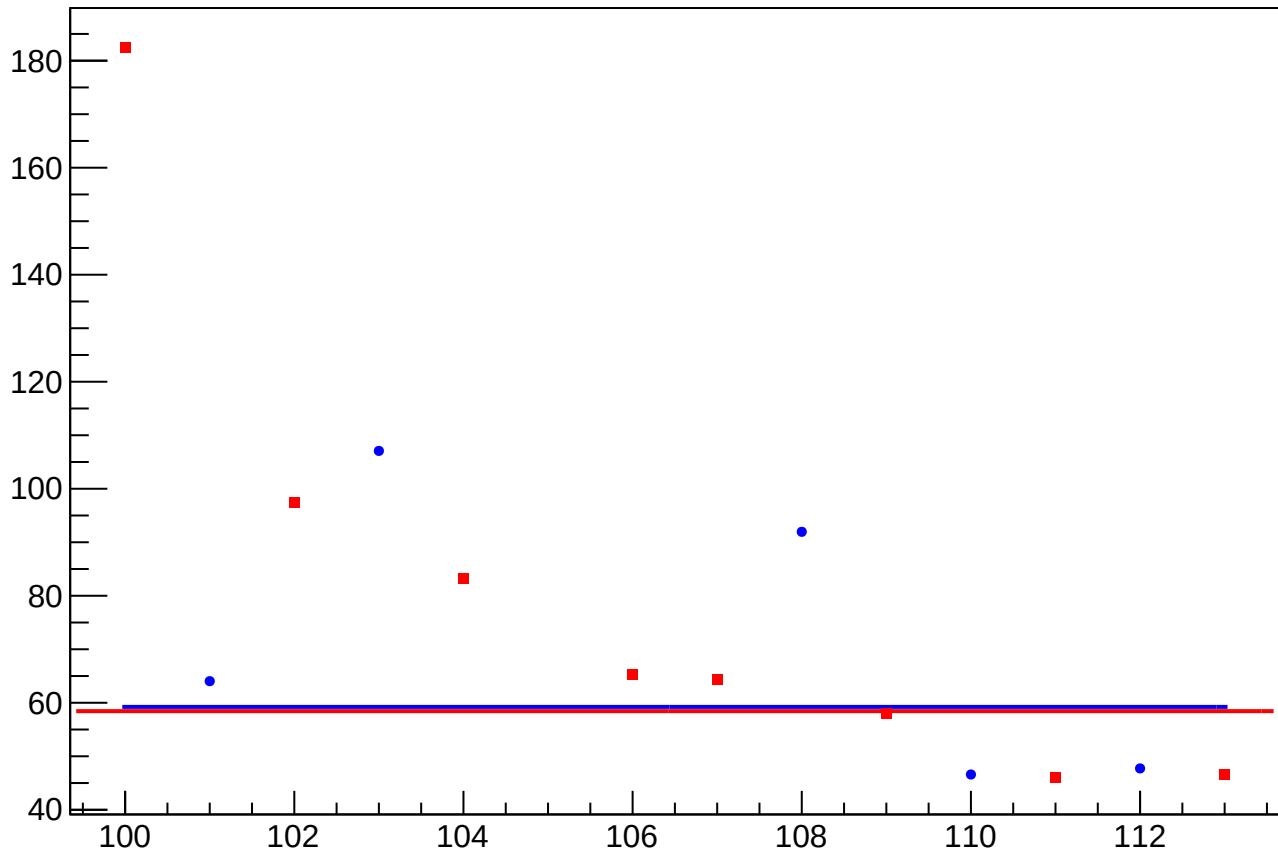
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -48.283+/-26.181  $\chi^2/\text{NDF}$ : 13.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 59.232 $\pm$ 0.028  $\chi^2$ /NDF: 452338.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 58.435 $\pm$ 0.025  $\chi^2$ /NDF: 481665.9/7

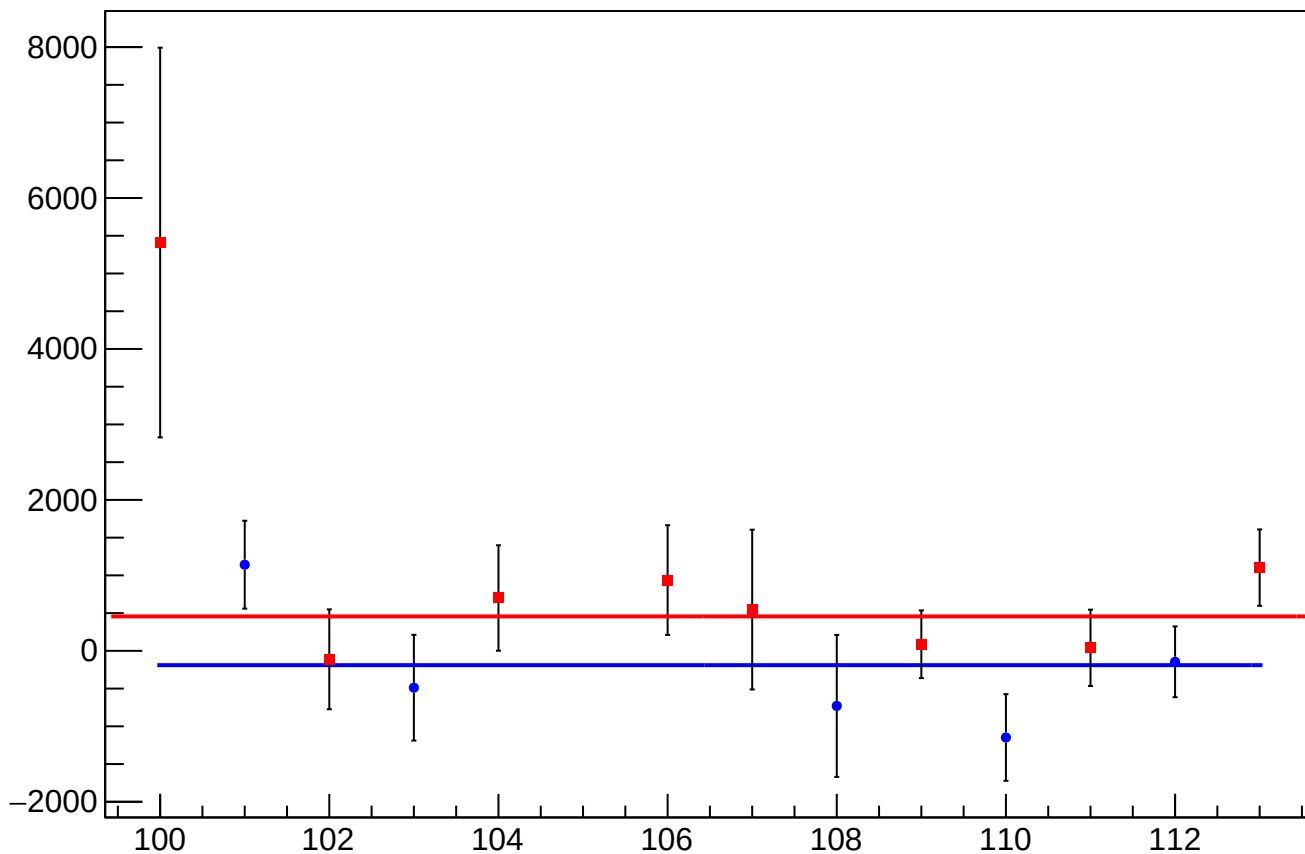
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 58.780 $\pm$ 0.019  $\chi^2$ /NDF: 934458.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -189.728+/-270.219  $\chi^2/\text{NDF}$ : 8.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 456.110+/-223.281  $\chi^2/\text{NDF}$ : 8.0/7

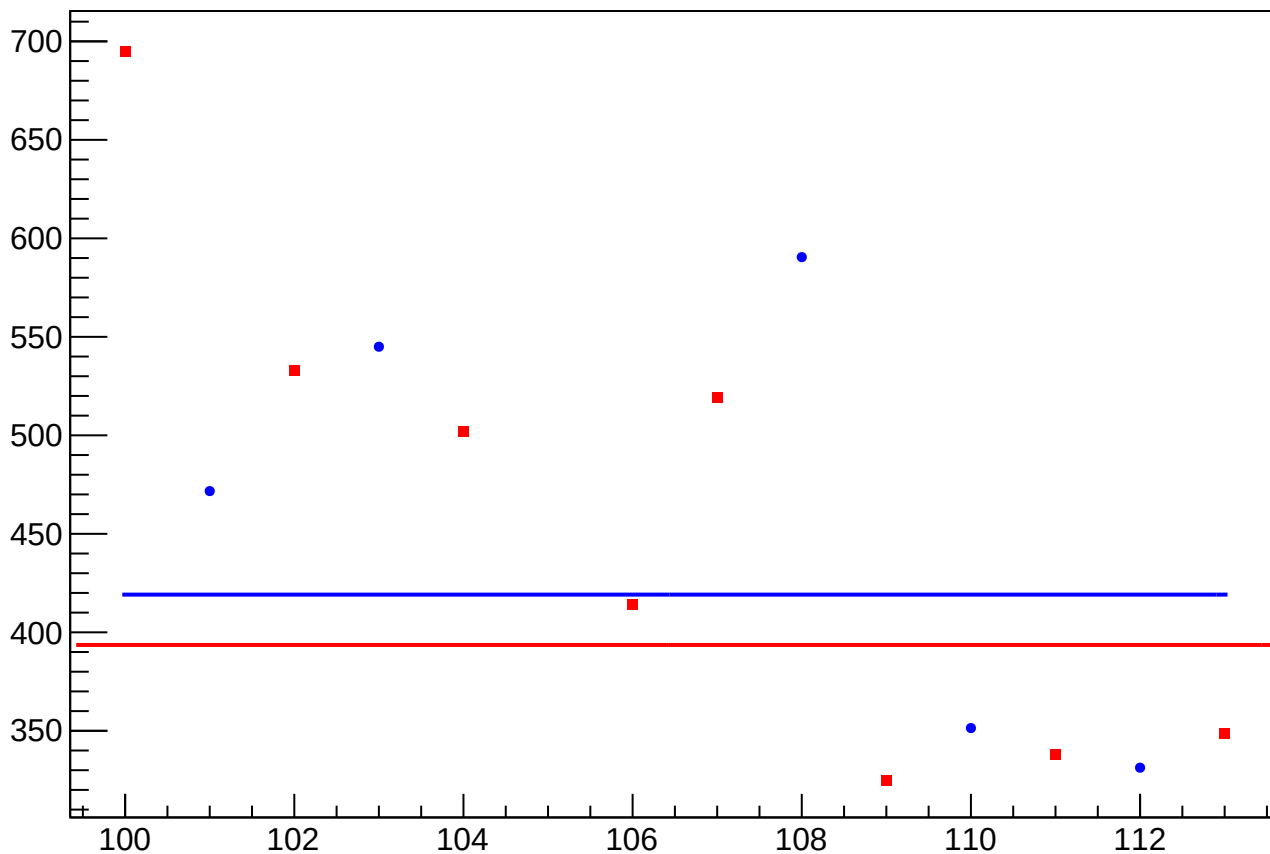
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 194.068+/-172.123  $\chi^2/\text{NDF}$ : 19.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 419.145 $\pm$ 0.191  $\chi^2$ /NDF: 245171.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 393.580 $\pm$ 0.158  $\chi^2$ /NDF: 280815.1/7

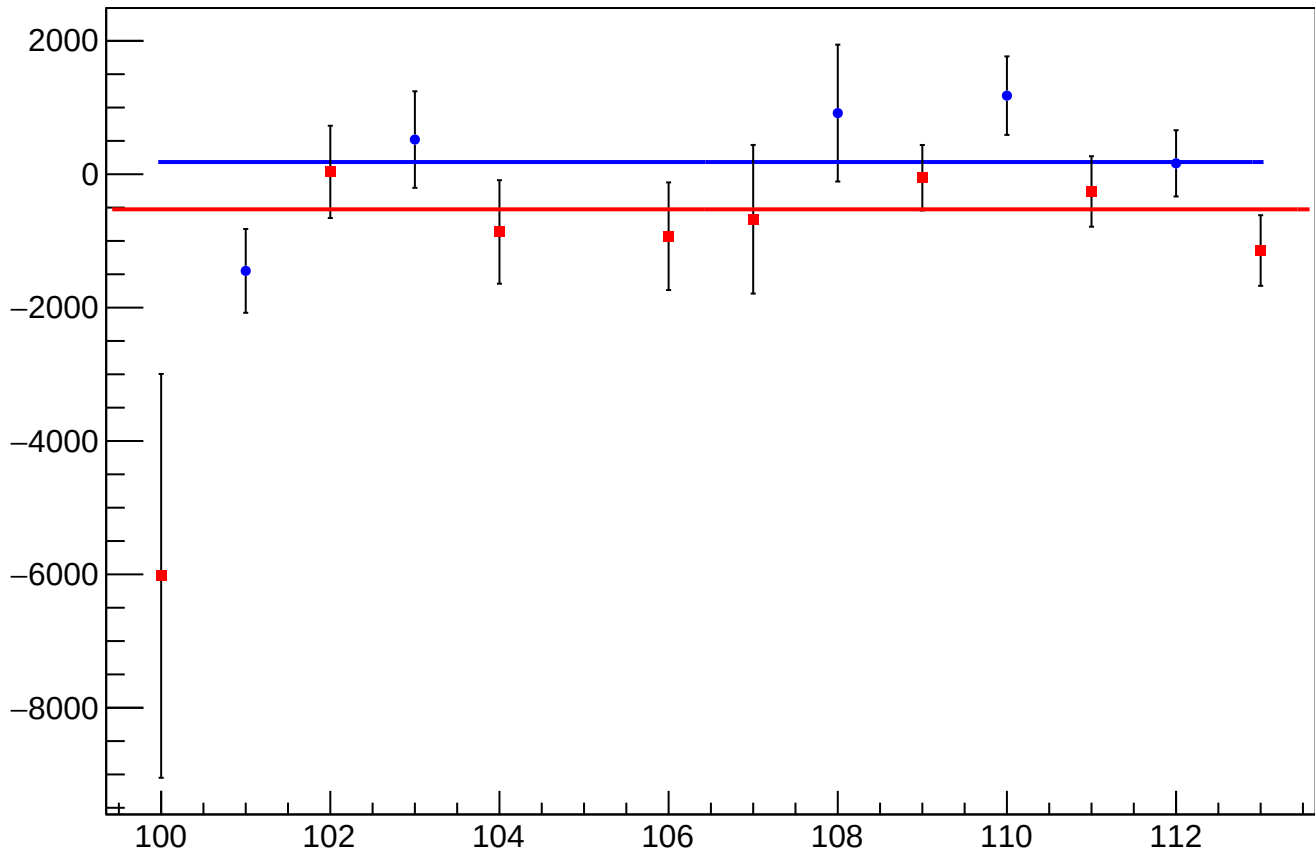
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 403.953 $\pm$ 0.122  $\chi^2$ /NDF: 536625.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_37\_dd\_mean vs Slug



Right In:  $182.991 \pm 284.774$   $\chi^2/\text{NDF}$ : 10.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-526.267 \pm 239.025$   $\chi^2/\text{NDF}$ : 7.0/7

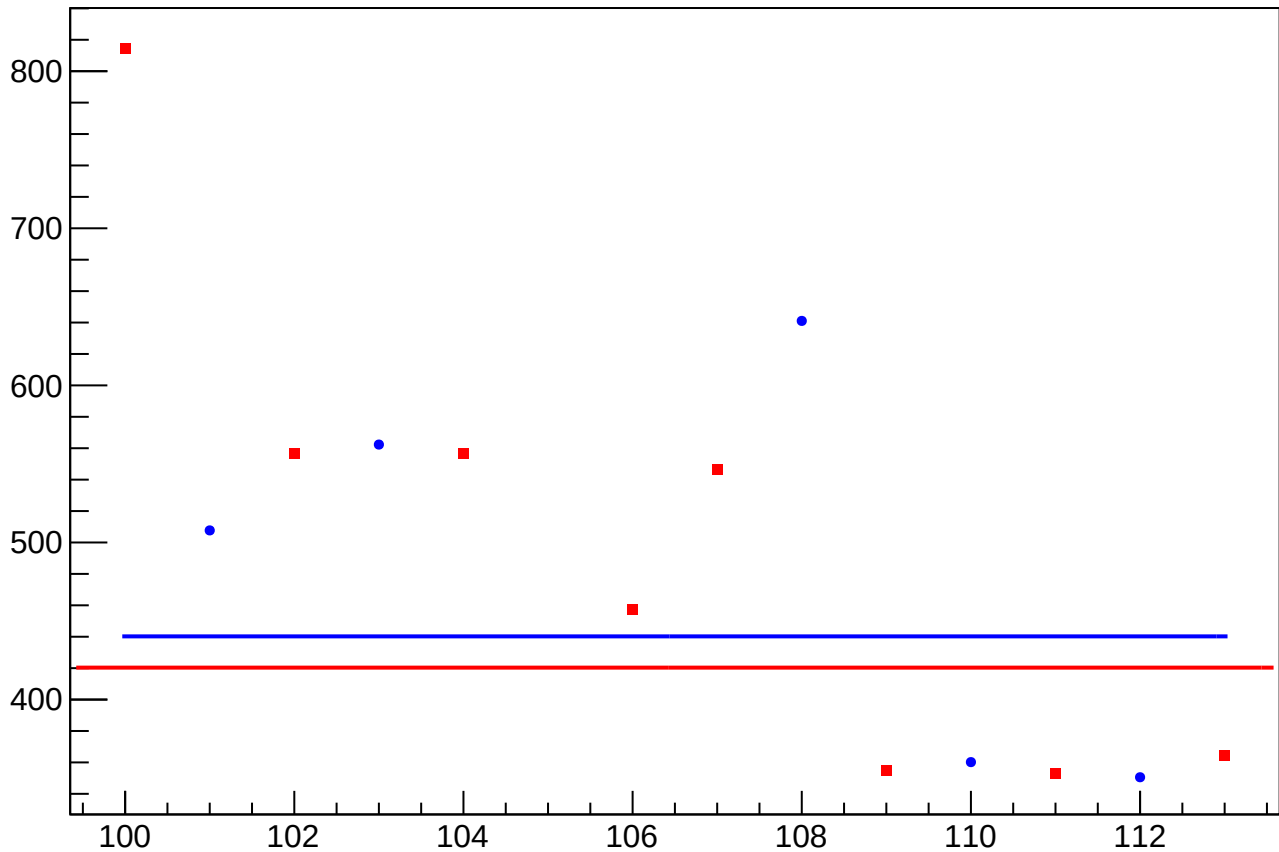
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-233.116 \pm 183.081$   $\chi^2/\text{NDF}$ : 20.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 440.231+/-0.201  $\chi^2/\text{NDF}$ : 258744.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 420.334+/-0.169  $\chi^2/\text{NDF}$ : 294247.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

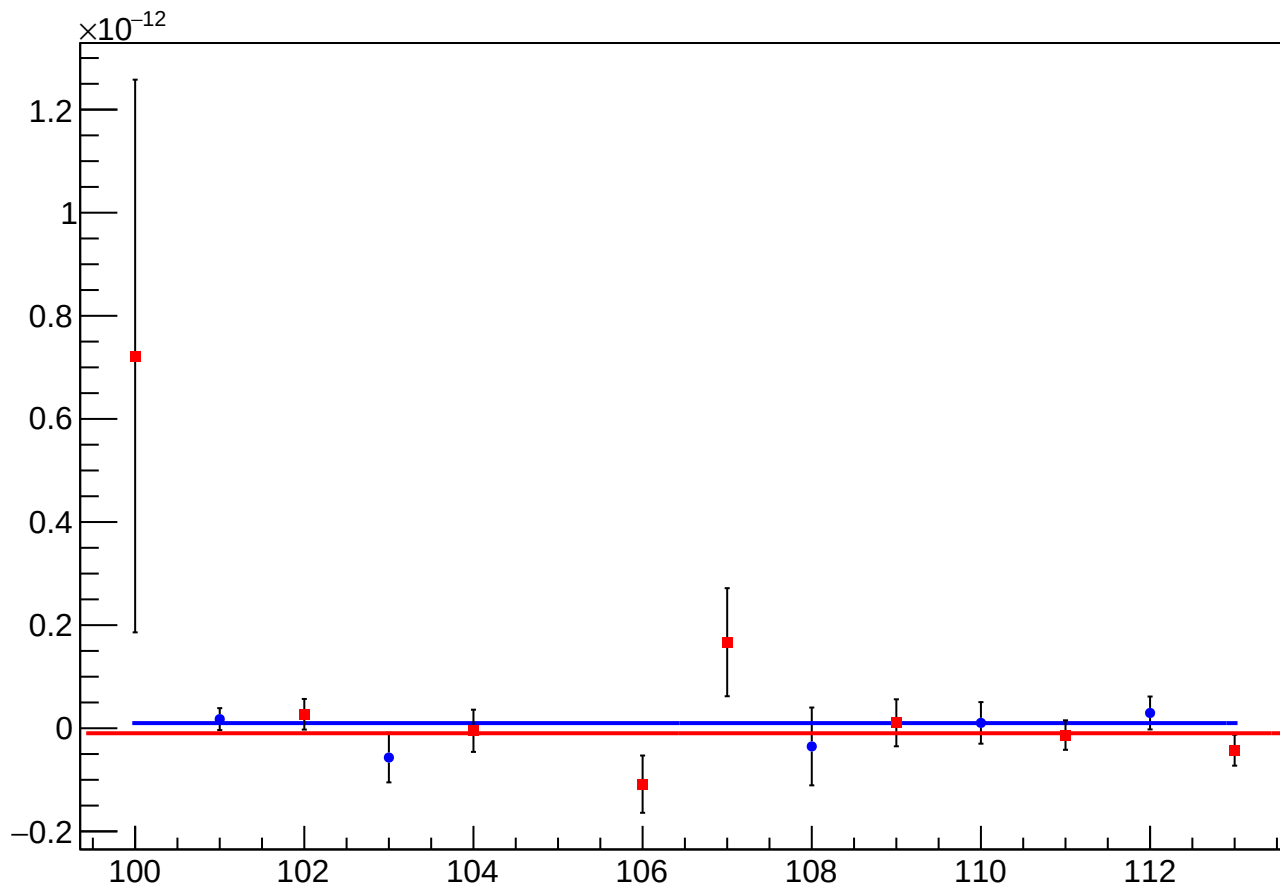
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 428.558+/-0.129  $\chi^2/\text{NDF}$ : 558719.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_15\_37\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.8/7

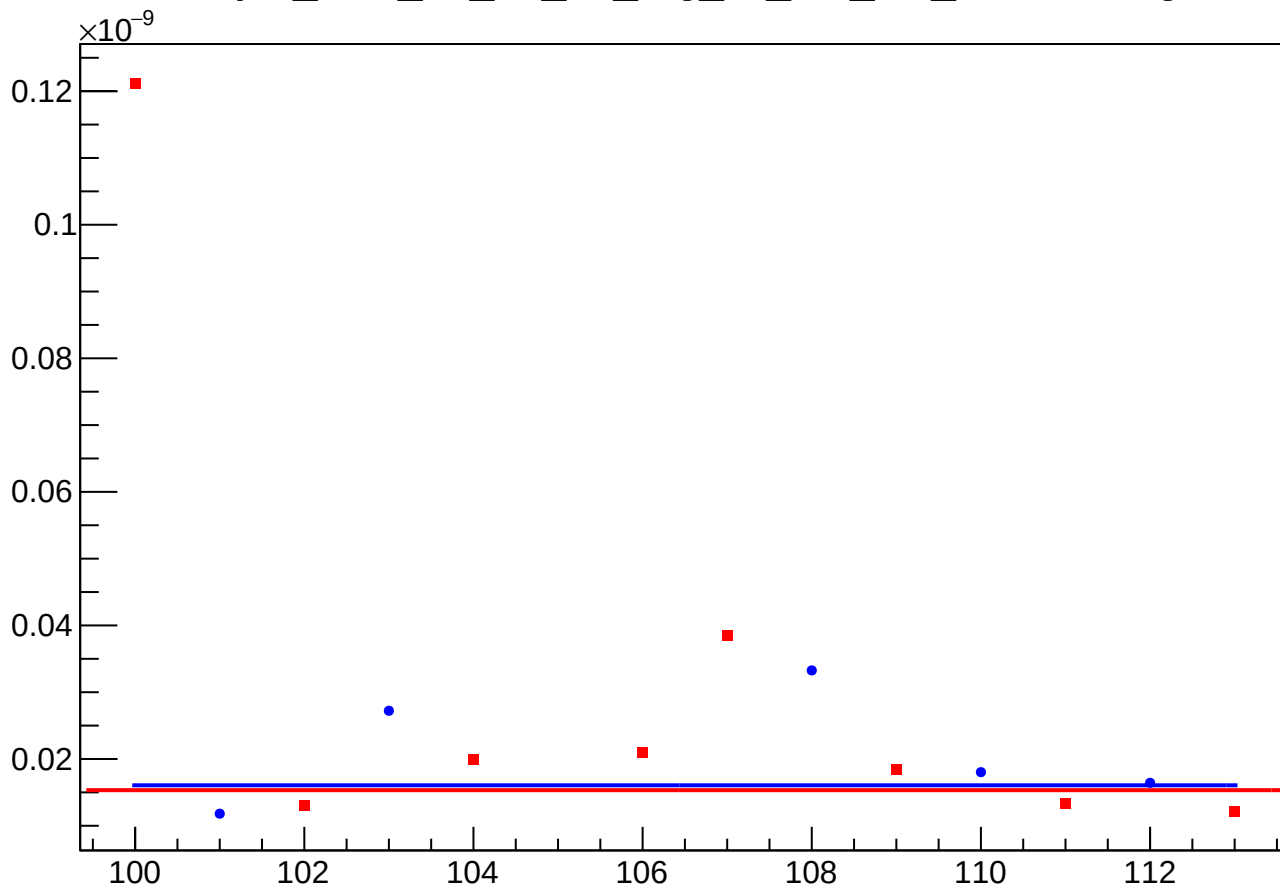
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_37\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 296542.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 272499.2/7

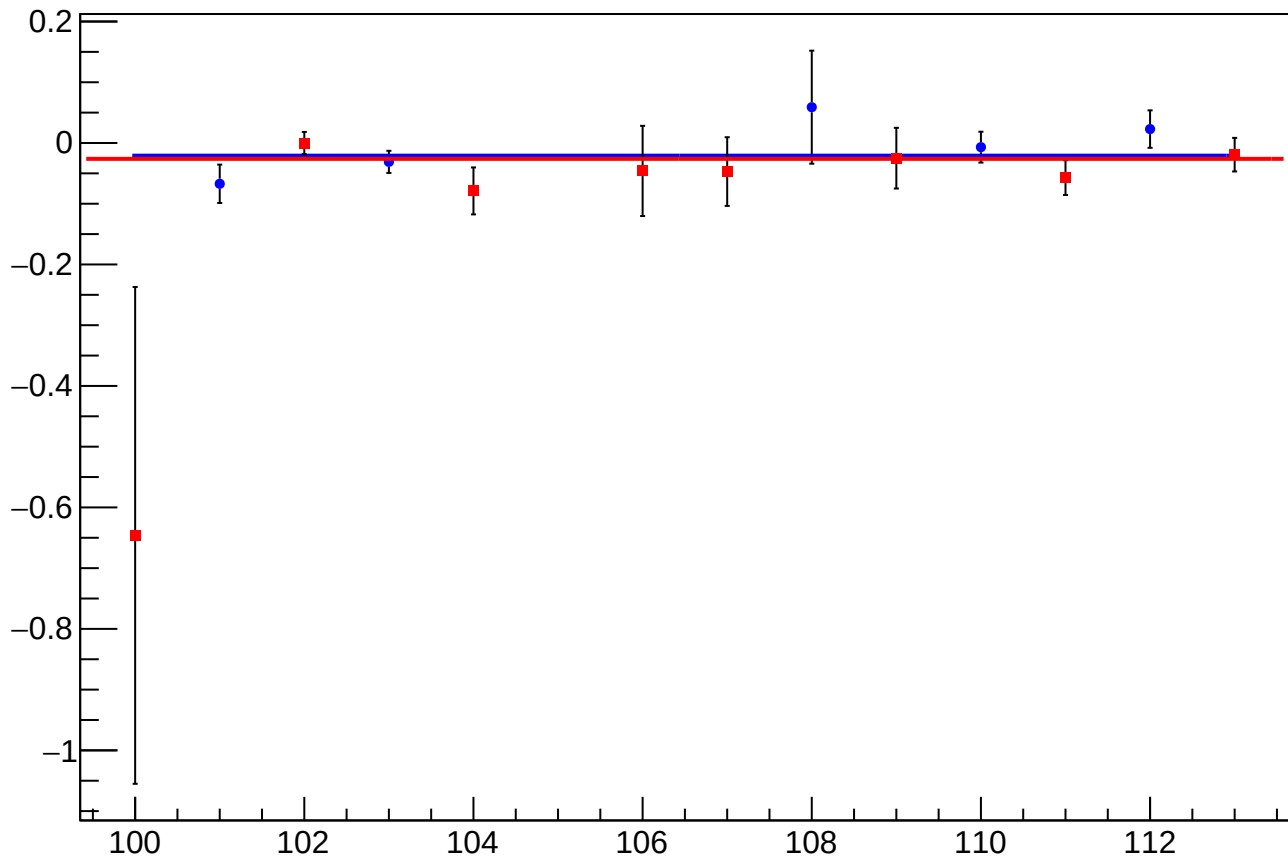
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 571535.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.021 $\pm$ 0.012  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.026 $\pm$ 0.012  $\chi^2$ /NDF: 7.6/7

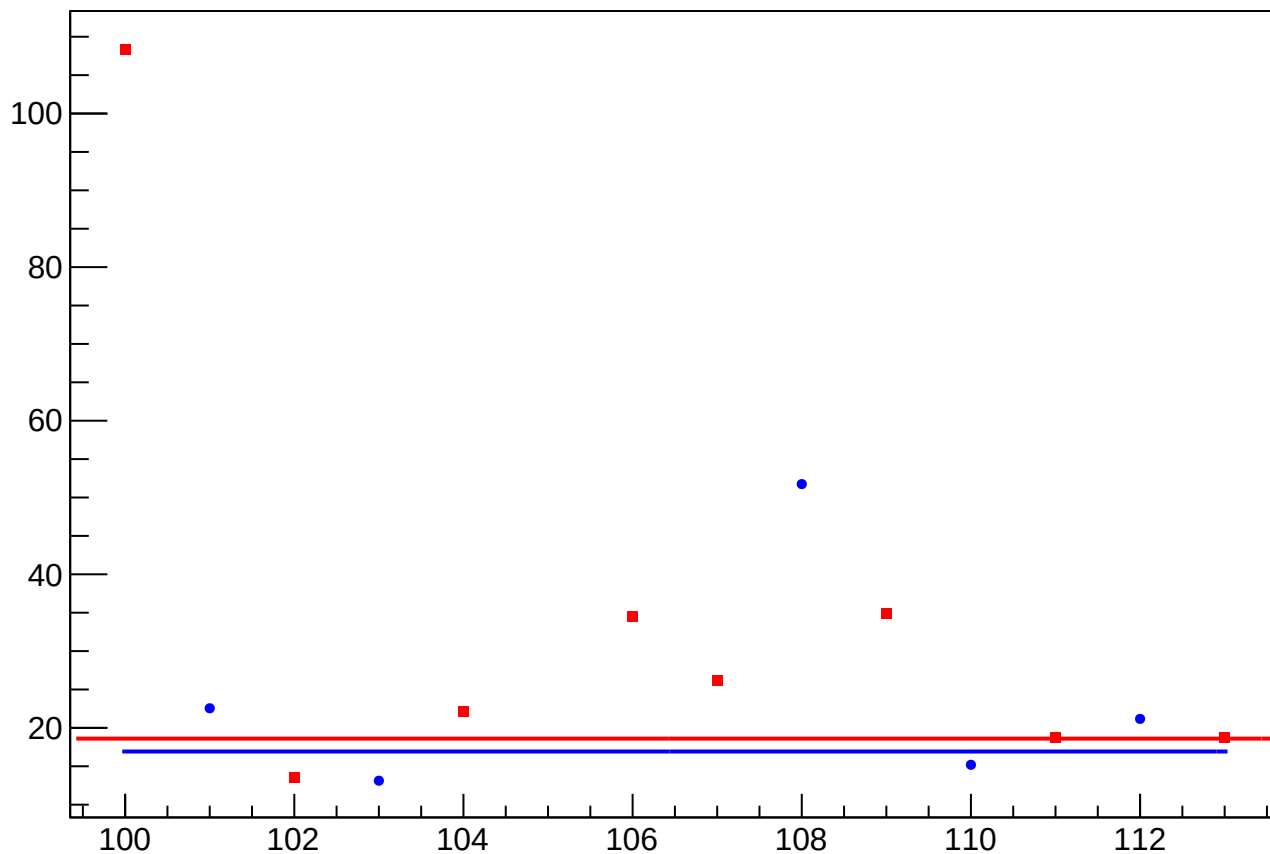
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.024 $\pm$ 0.009  $\chi^2$ /NDF: 13.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 16.923+/-0.009  $\chi^2/\text{NDF}$ : 477977.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.603+/-0.008  $\chi^2/\text{NDF}$ : 600440.4/7

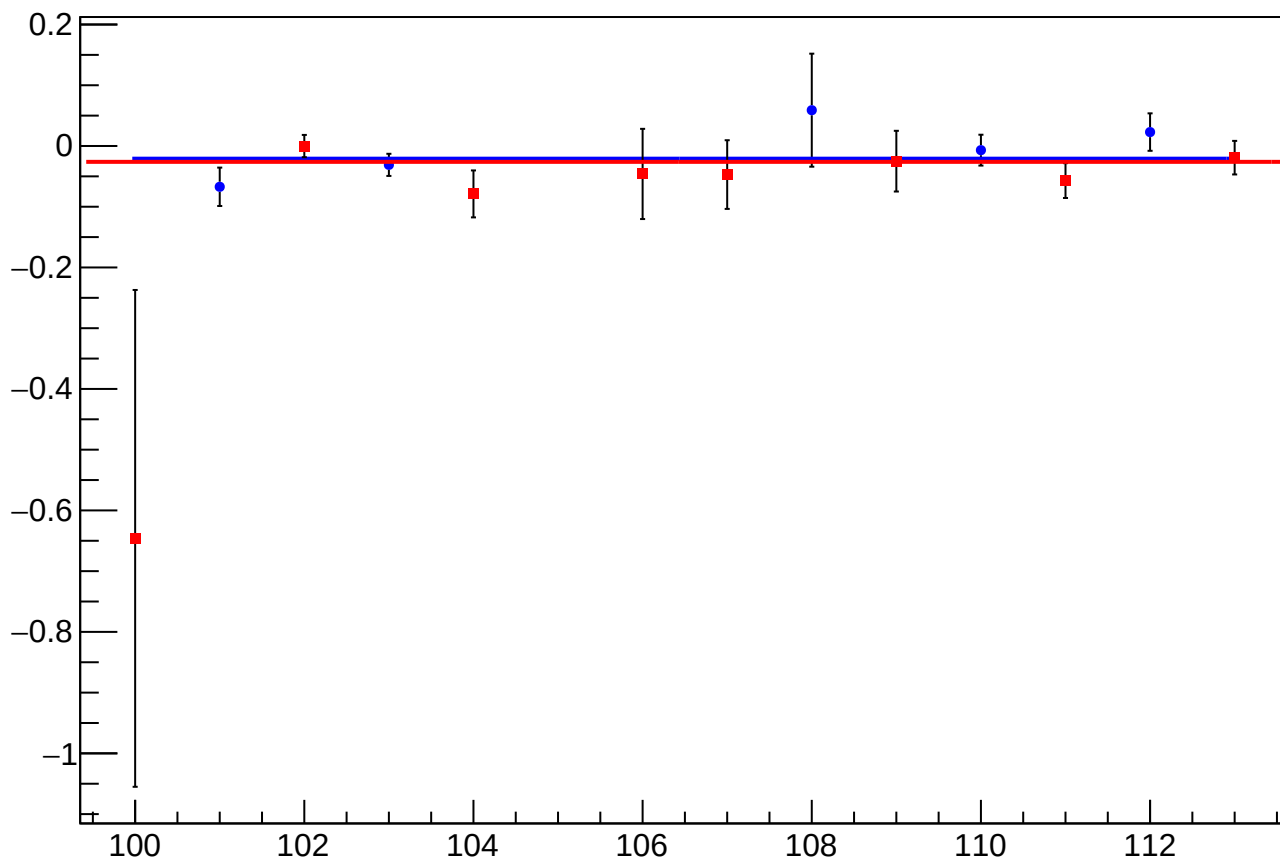
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.783+/-0.006  $\chi^2/\text{NDF}$ : 1097870.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.021 $\pm$ 0.012  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.026 $\pm$ 0.012  $\chi^2$ /NDF: 7.6/7

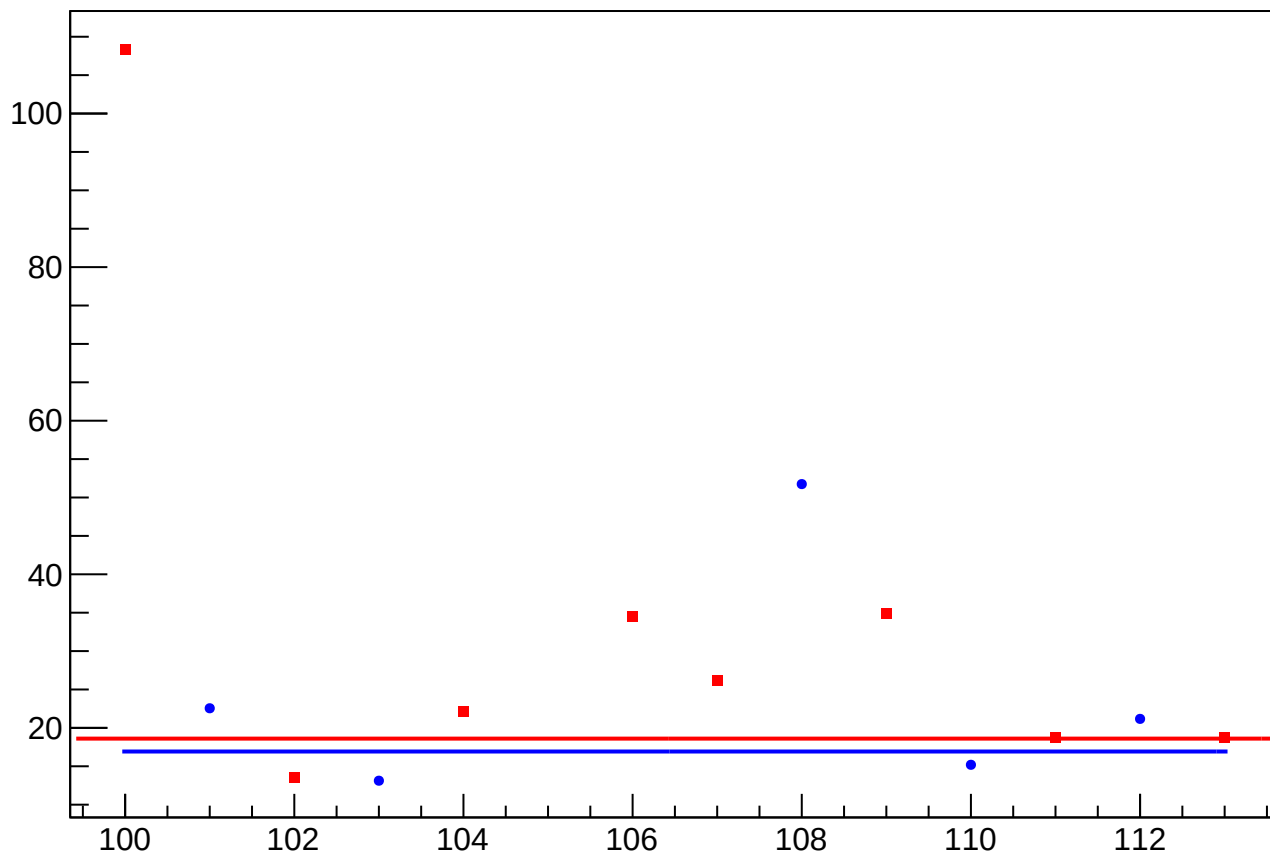
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.024 $\pm$ 0.009  $\chi^2$ /NDF: 13.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 16.923+/-0.009  $\chi^2/\text{NDF}$ : 477977.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.603+/-0.008  $\chi^2/\text{NDF}$ : 600440.4/7

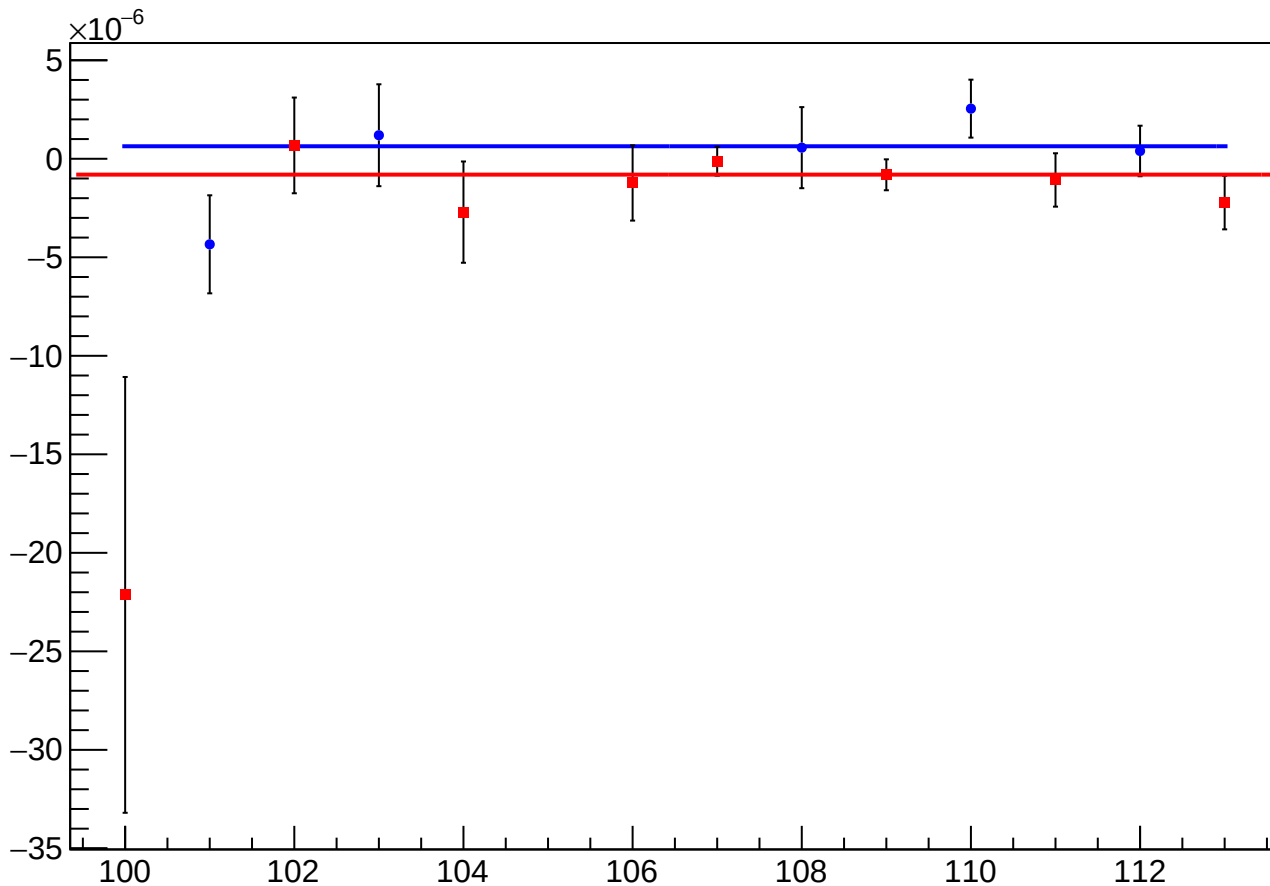
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.783+/-0.006  $\chi^2/\text{NDF}$ : 1097870.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.7/7

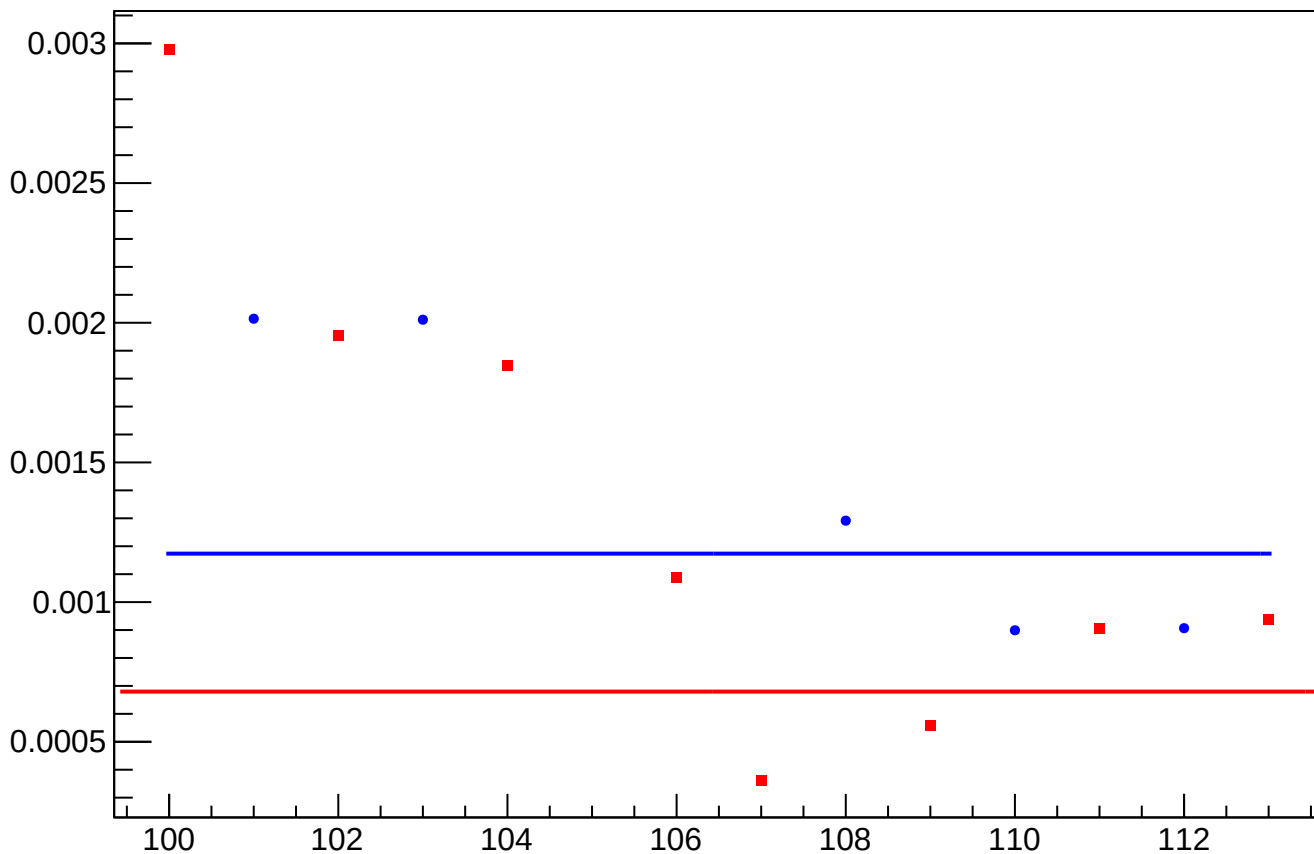
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 600982.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1692189.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

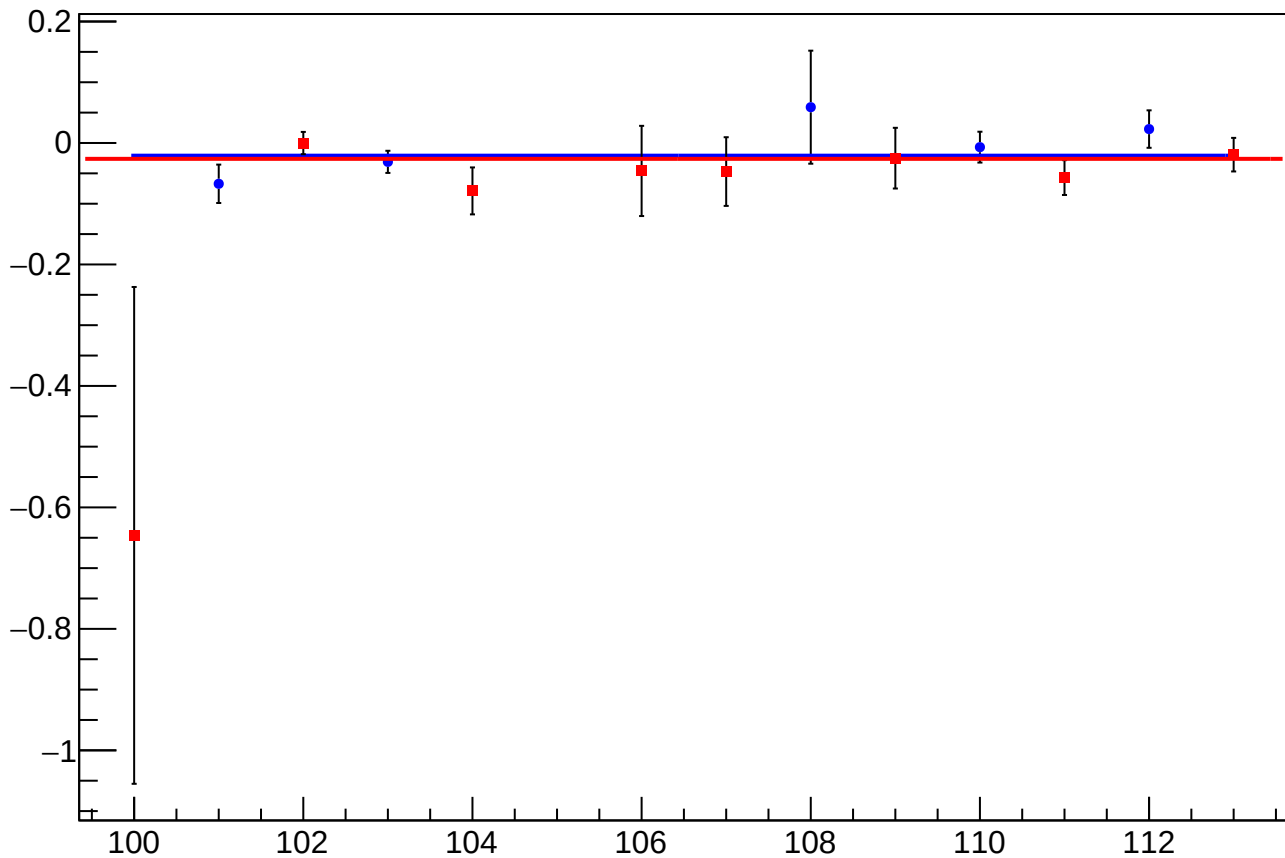
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2893901.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.021±/-0.012  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.026±/-0.012  $\chi^2$ /NDF: 7.6/7

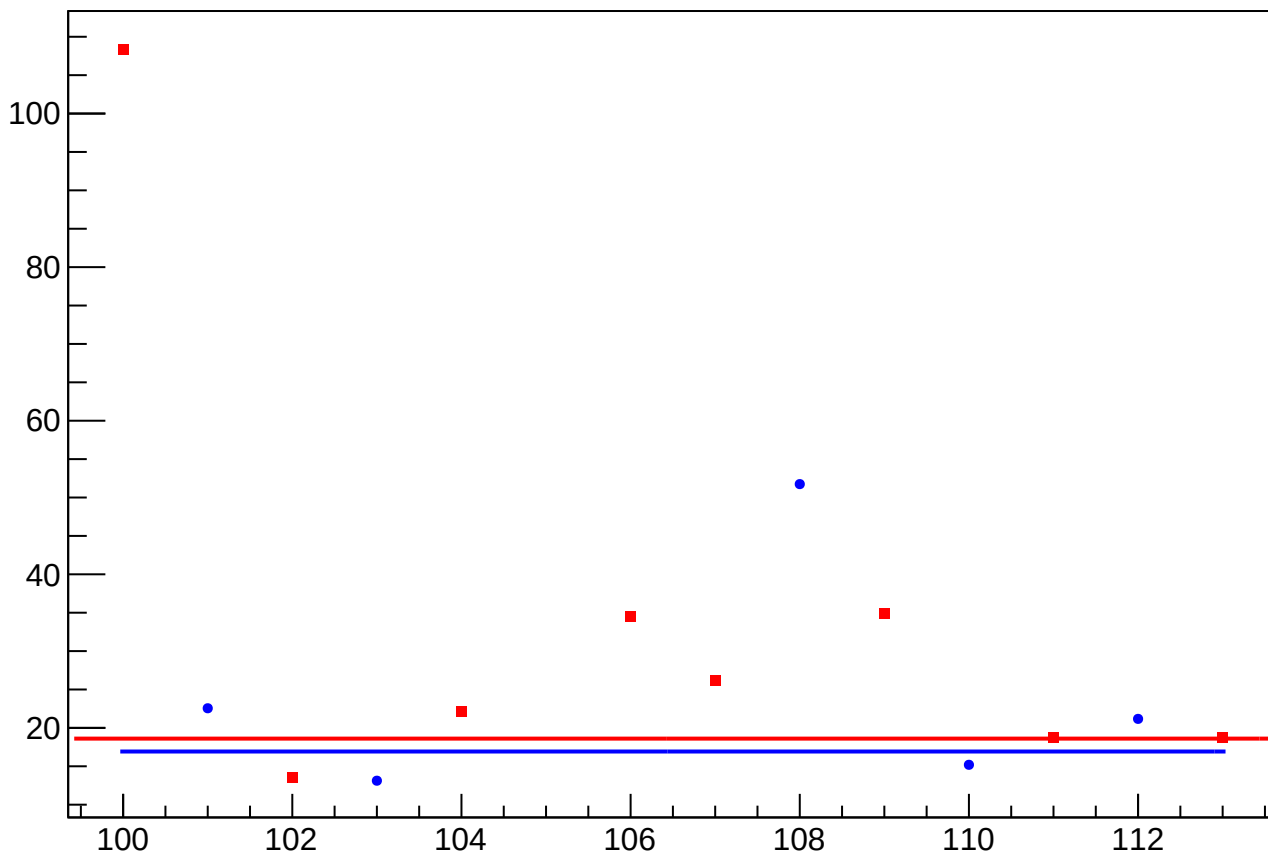
Left In: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.024±/-0.009  $\chi^2$ /NDF: 13.2/12

- sign 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 16.924+/-0.009  $\chi^2/\text{NDF}$ : 477968.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.604+/-0.008  $\chi^2/\text{NDF}$ : 600351.7/7

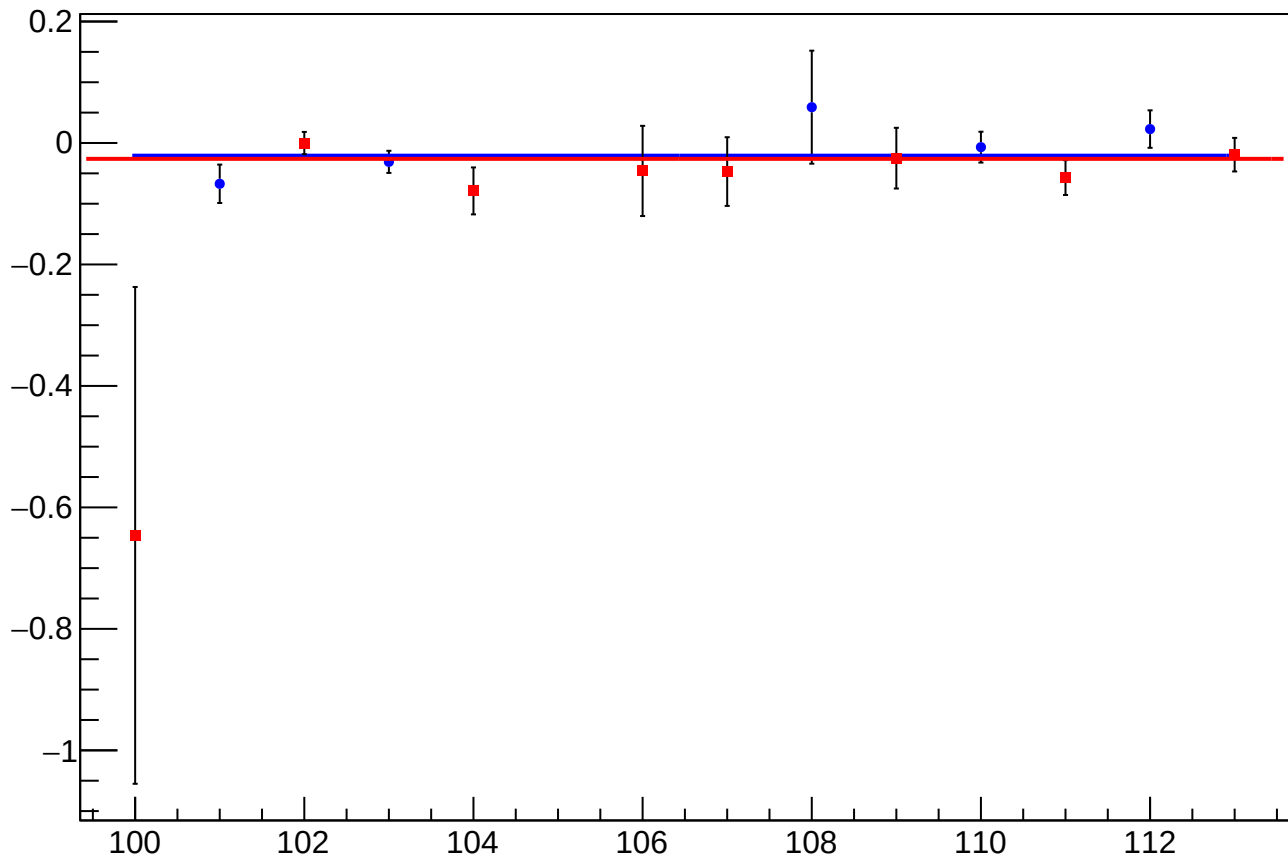
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.784+/-0.006  $\chi^2/\text{NDF}$ : 1097780.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.021 $\pm$ 0.012  $\chi^2$ /NDF: 5.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.026 $\pm$ 0.012  $\chi^2$ /NDF: 7.6/7

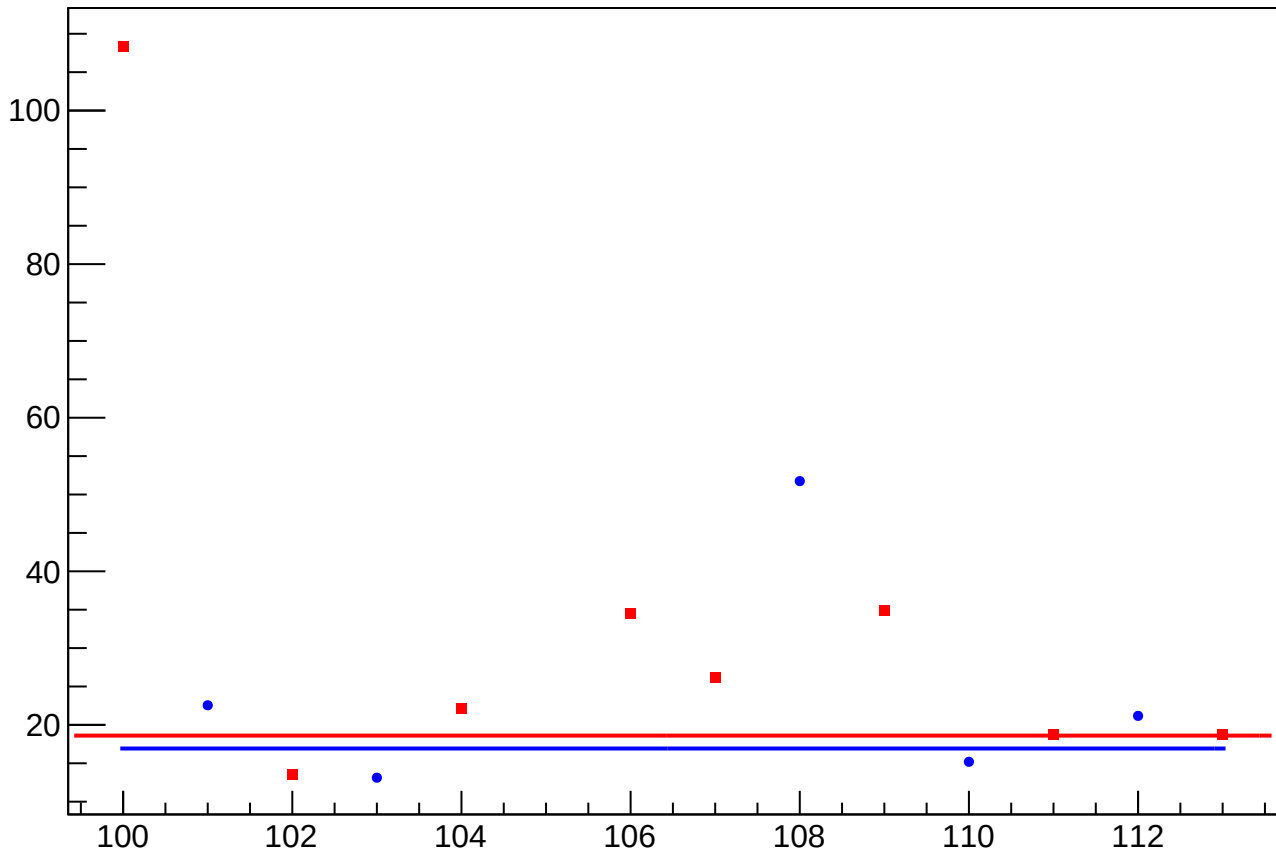
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.024 $\pm$ 0.009  $\chi^2$ /NDF: 13.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 16.924+/-0.009  $\chi^2/\text{NDF}$ : 477968.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.604+/-0.008  $\chi^2/\text{NDF}$ : 600351.7/7

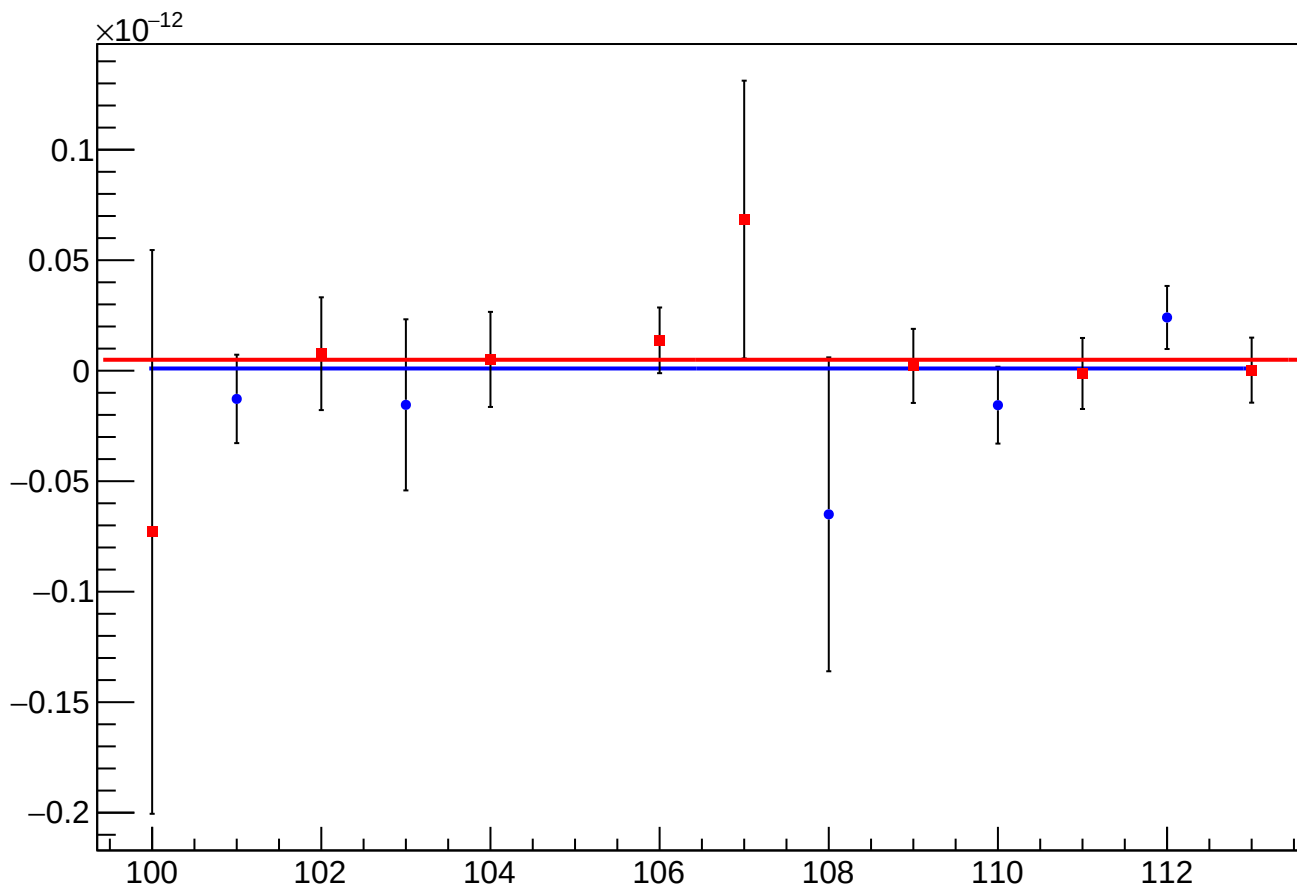
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.784+/-0.006  $\chi^2/\text{NDF}$ : 1097780.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.0/7

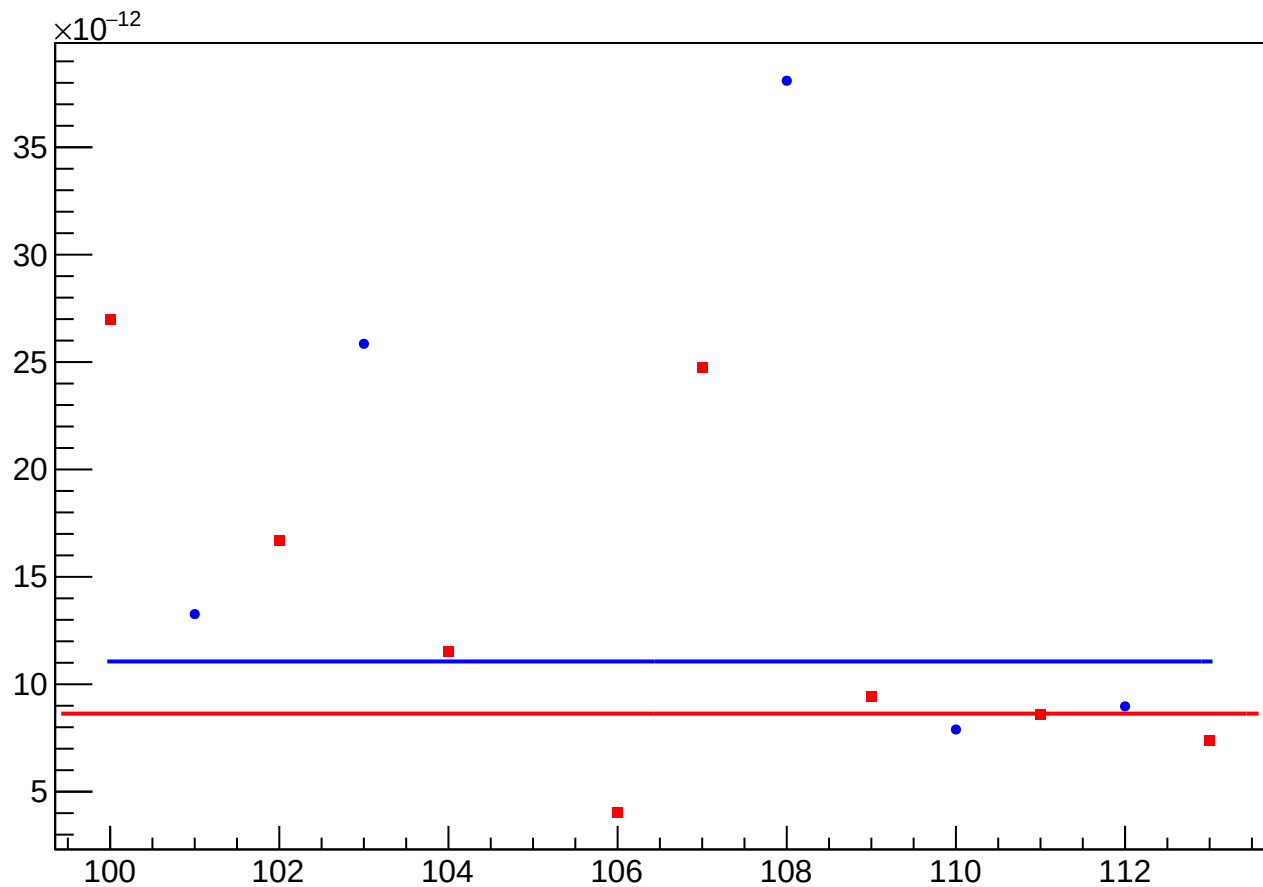
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 715195.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 619593.4/7

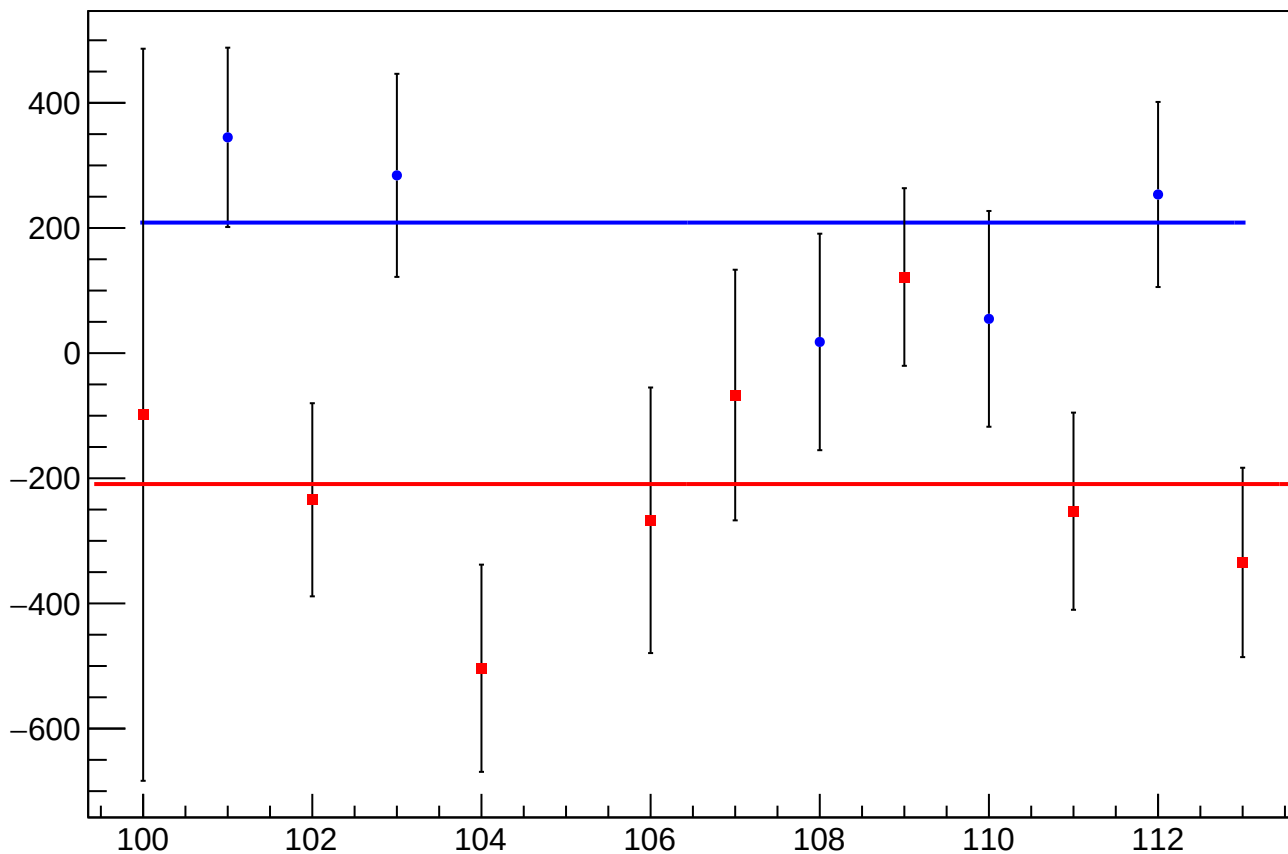
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1422211.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 208.644 $\pm$ 70.813  $\chi^2$ /NDF: 3.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -209.230 $\pm$ 61.768  $\chi^2$ /NDF: 10.0/7

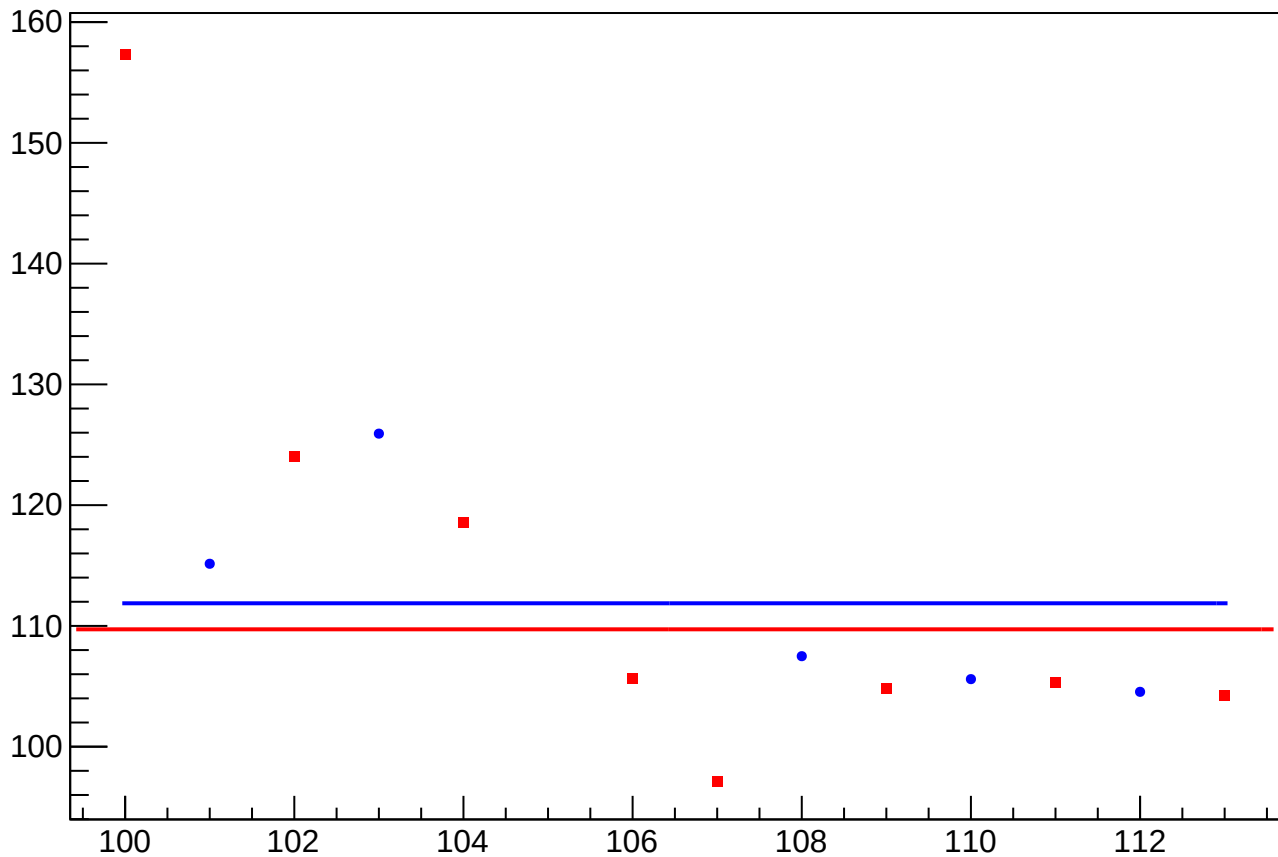
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -28.671 $\pm$ 46.548  $\chi^2$ /NDF: 33.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 111.874 $\pm$ 0.050  $\chi^2$ /NDF: 24881.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 109.718 $\pm$ 0.044  $\chi^2$ /NDF: 51437.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

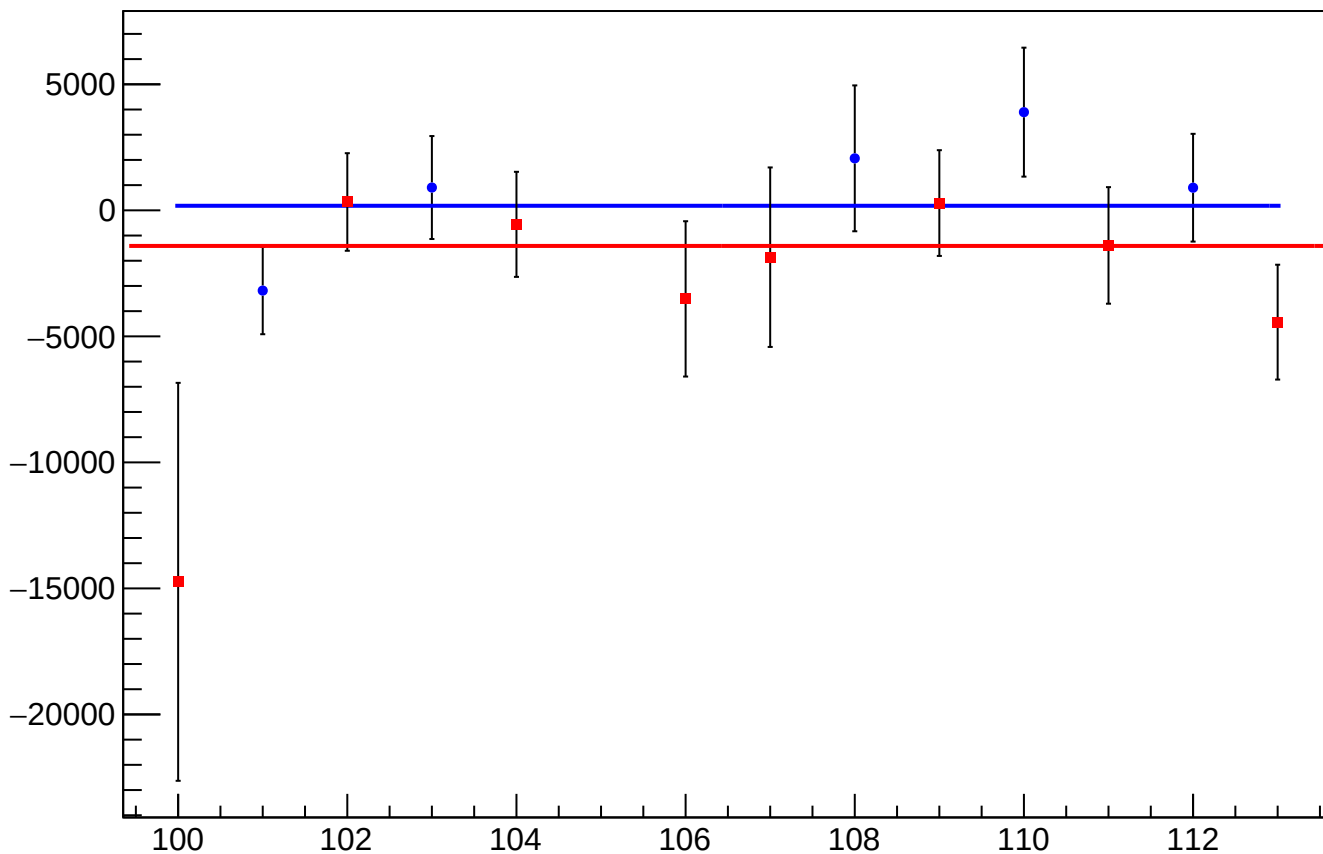
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.649 $\pm$ 0.033  $\chi^2$ /NDF: 77371.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_24\_68\_dd\_reg\_correction\_mean vs Slug



Right In: 180.885 $\pm$ 969.229  $\chi^2$ /NDF: 6.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1412.267 $\pm$ 875.618  $\chi^2$ /NDF: 6.7/7

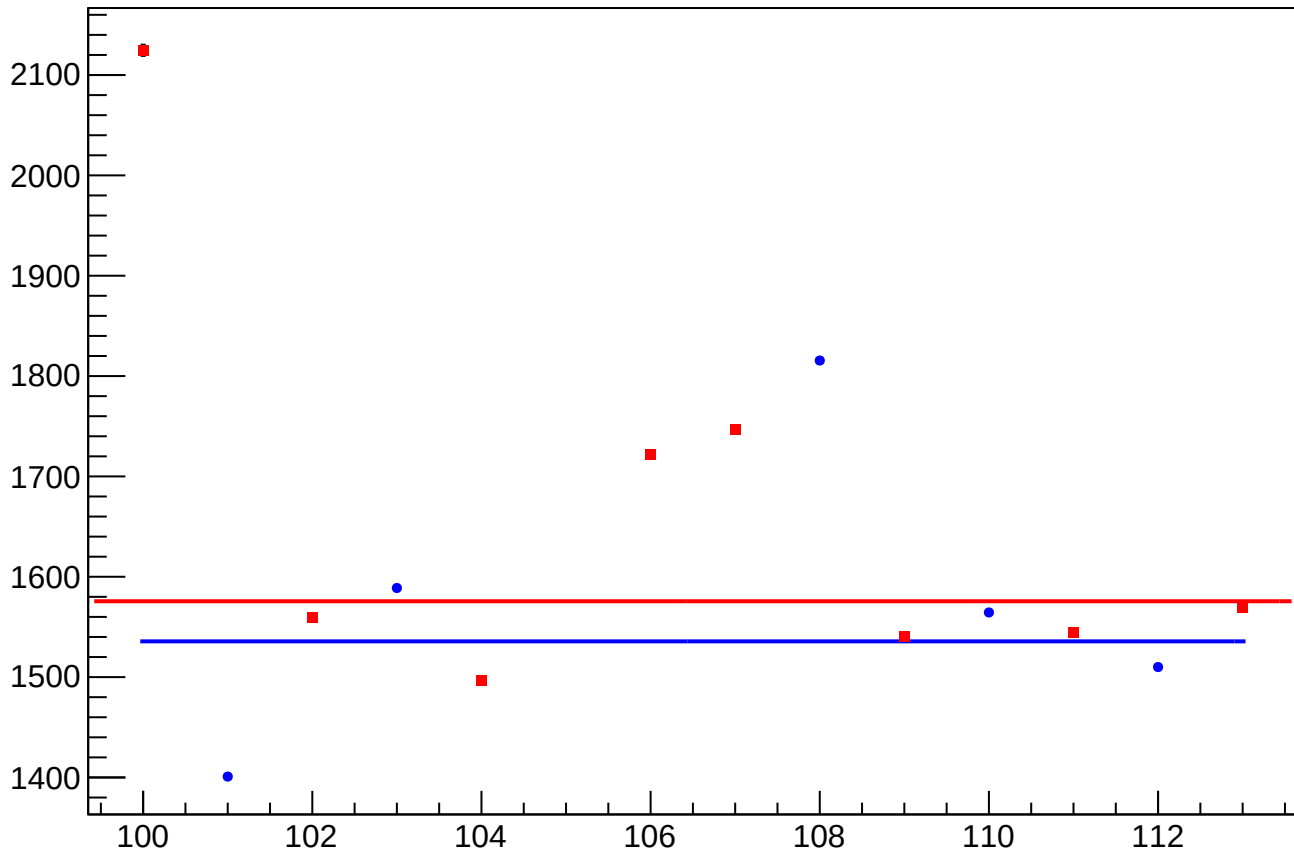
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -696.323 $\pm$ 649.736  $\chi^2$ /NDF: 14.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_reg\_correction\_rms vs Slug



Right In: 1535.633+/-0.685  $\chi^2/\text{NDF}$ : 32720.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1575.599+/-0.619  $\chi^2/\text{NDF}$ : 22824.3/7

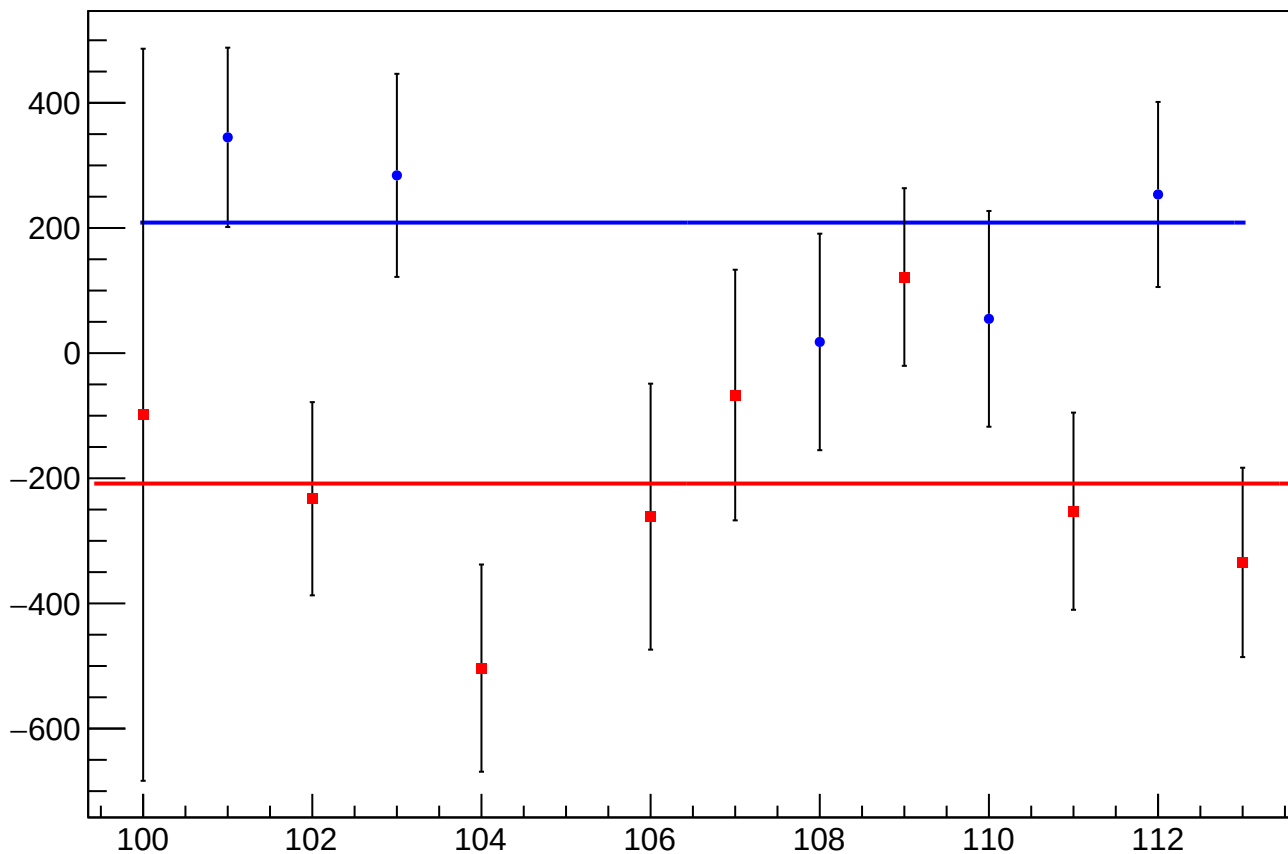
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1557.639+/-0.459  $\chi^2/\text{NDF}$ : 57417.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 208.642 $\pm$ 70.813  $\chi^2$ /NDF: 3.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -208.433 $\pm$ 61.780  $\chi^2$ /NDF: 10.0/7

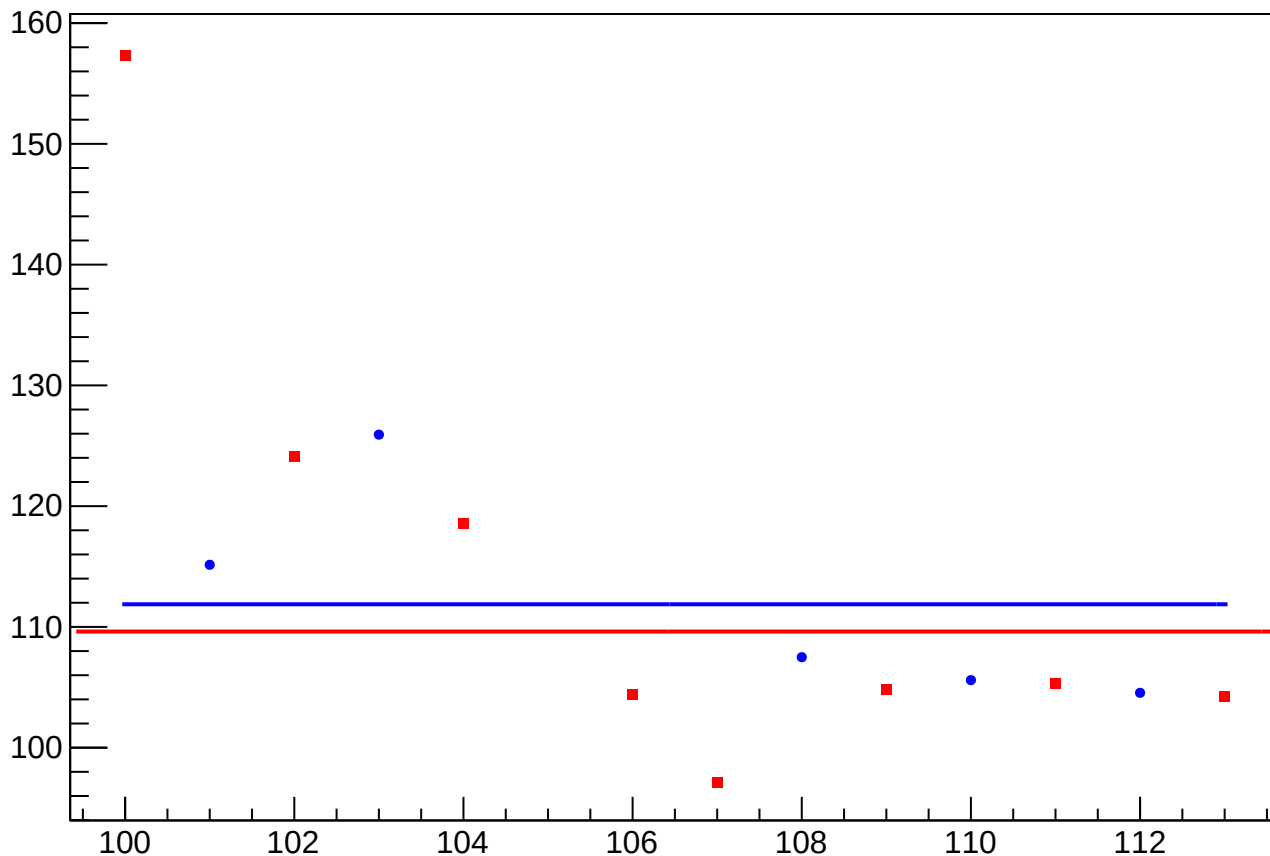
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -28.177 $\pm$ 46.553  $\chi^2$ /NDF: 32.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 111.874 $\pm$ 0.050  $\chi^2$ /NDF: 24882.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 109.617 $\pm$ 0.044  $\chi^2$ /NDF: 52088.9/7

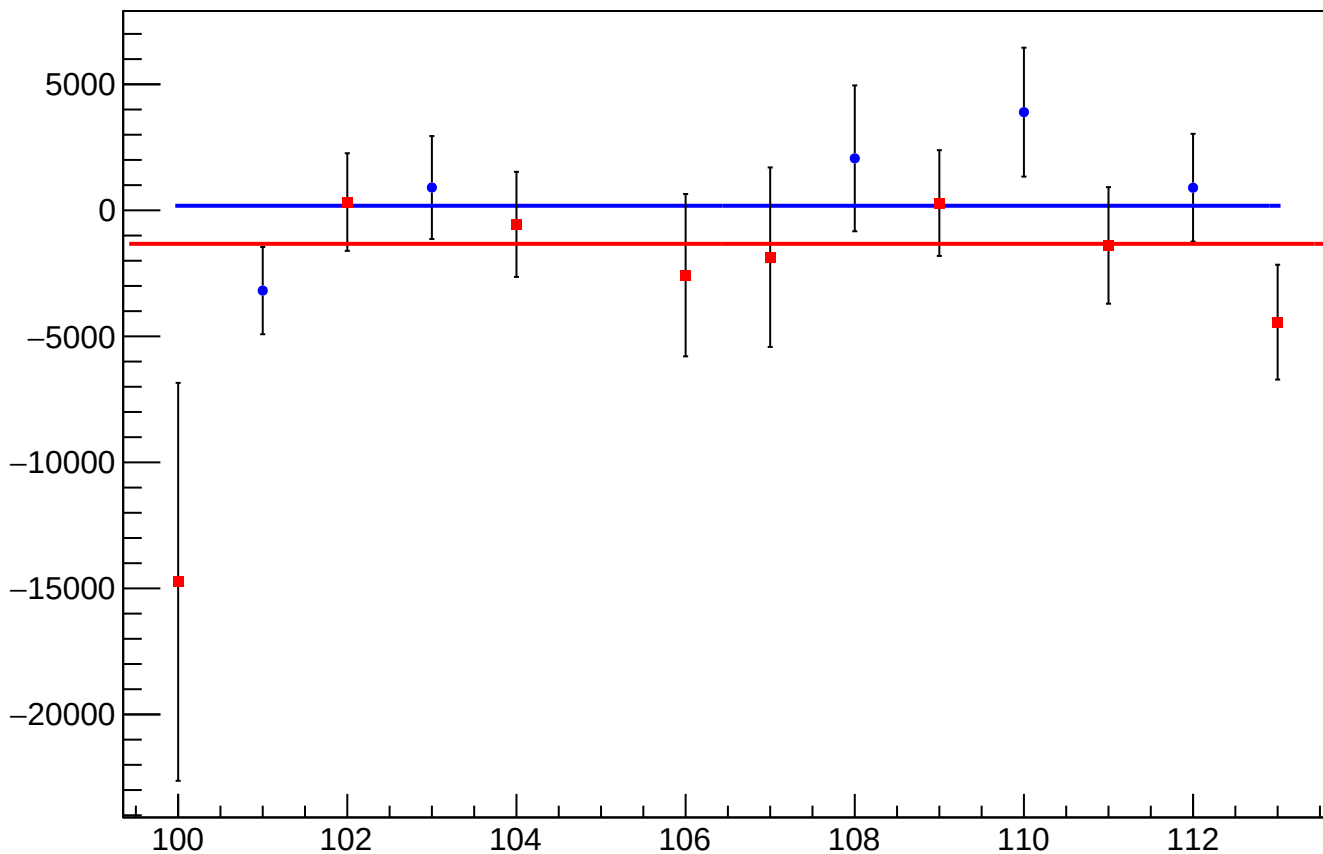
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.593 $\pm$ 0.033  $\chi^2$ /NDF: 78124.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_cor\_correction\_mean vs Slug



Right In: 180.983+/-969.237  $\chi^2/\text{NDF}$ : 6.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1328.892+/-878.681  $\chi^2/\text{NDF}$ : 6.4/7

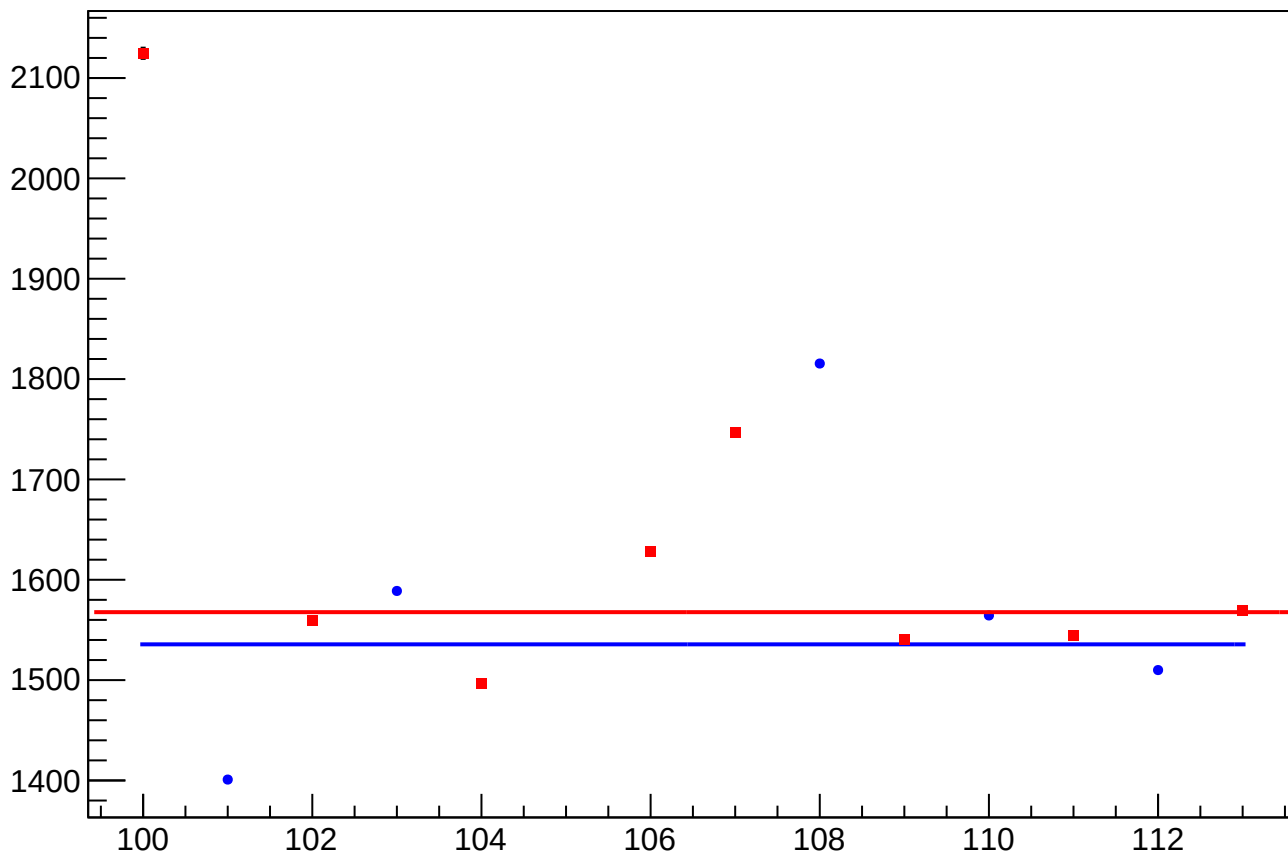
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -647.768+/-650.988  $\chi^2/\text{NDF}$ : 14.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_cor\_correction\_rms vs Slug



Right In: 1535.646 $\pm$ 0.685  $\chi^2$ /NDF: 32722.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1567.725 $\pm$ 0.621  $\chi^2$ /NDF: 18651.1/7

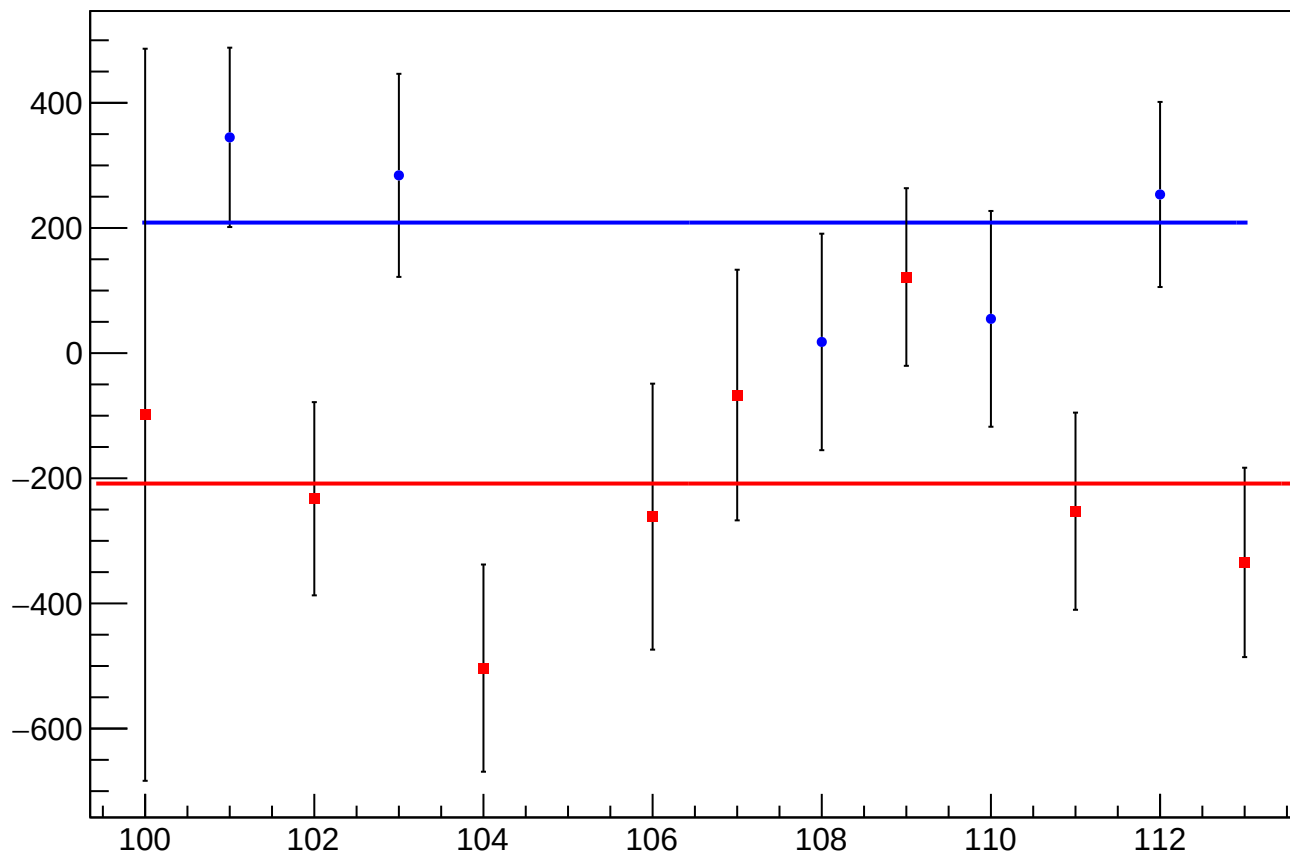
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1553.254 $\pm$ 0.460  $\chi^2$ /NDF: 52576.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 208.642 $\pm$ 70.813  $\chi^2/\text{NDF}$ : 3.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -208.433 $\pm$ 61.780  $\chi^2/\text{NDF}$ : 10.0/7

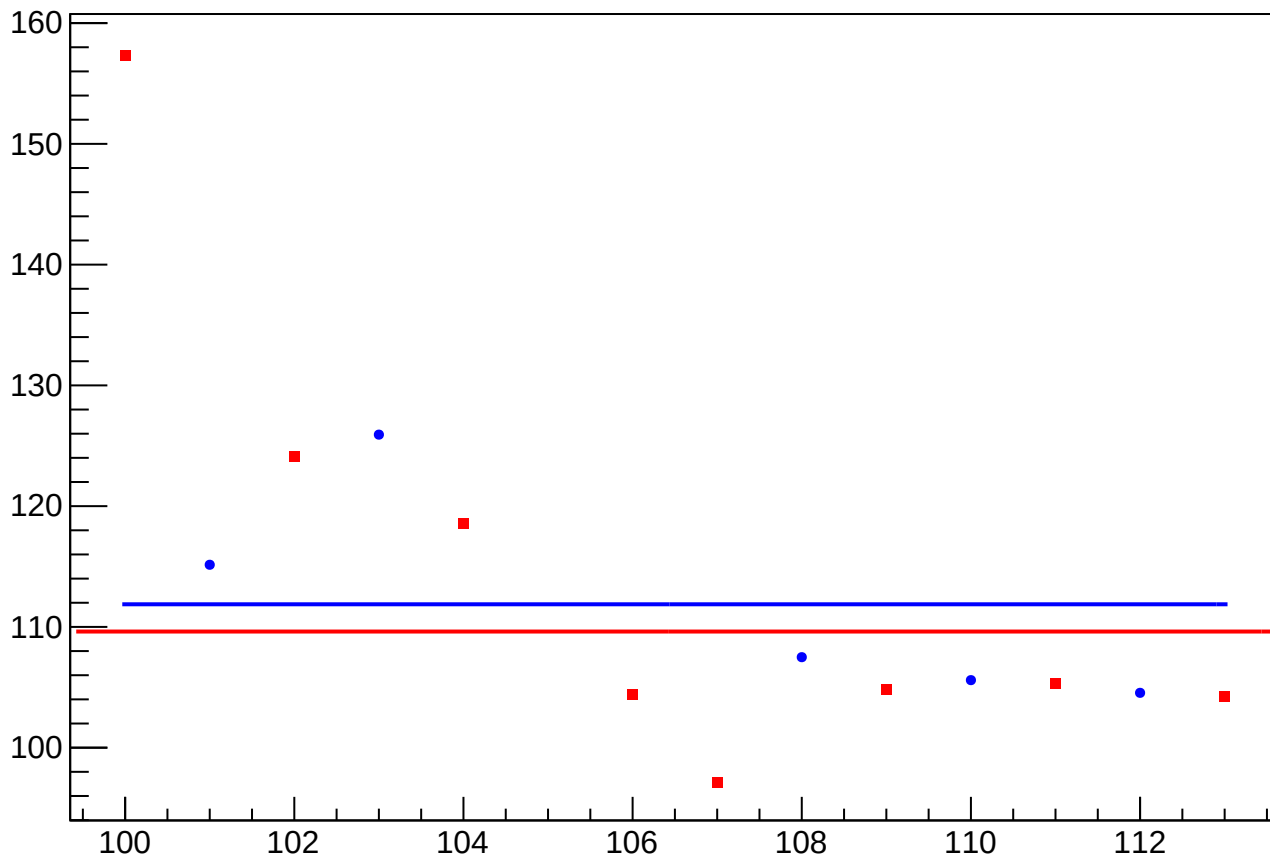
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -28.177 $\pm$ 46.553  $\chi^2/\text{NDF}$ : 32.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 111.874 $\pm$ 0.050  $\chi^2$ /NDF: 24882.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 109.617 $\pm$ 0.044  $\chi^2$ /NDF: 52088.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

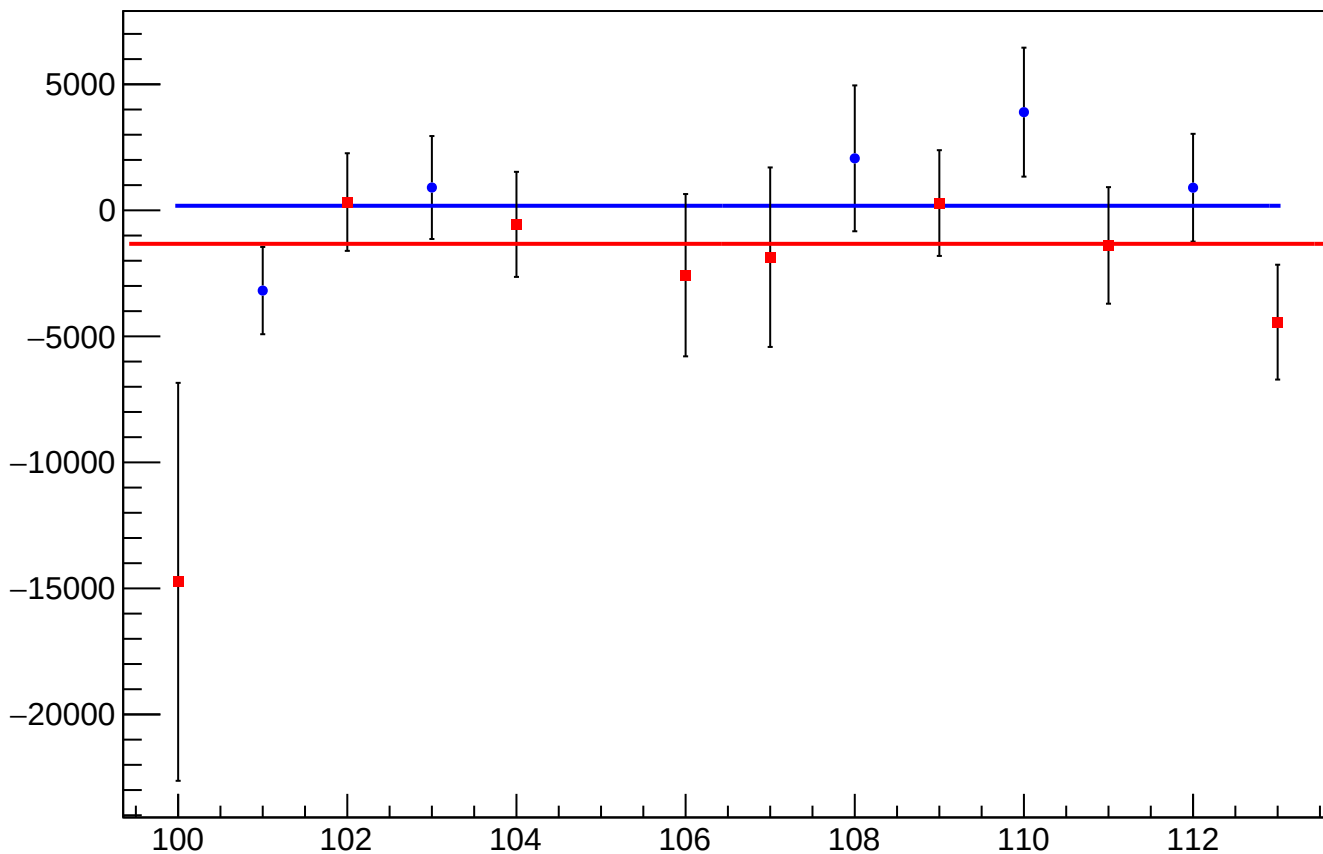
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.593 $\pm$ 0.033  $\chi^2$ /NDF: 78124.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_24\_68\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In:  $180.983 \pm 969.237$   $\chi^2/\text{NDF}$ : 6.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1328.892 \pm 878.681$   $\chi^2/\text{NDF}$ : 6.4/7

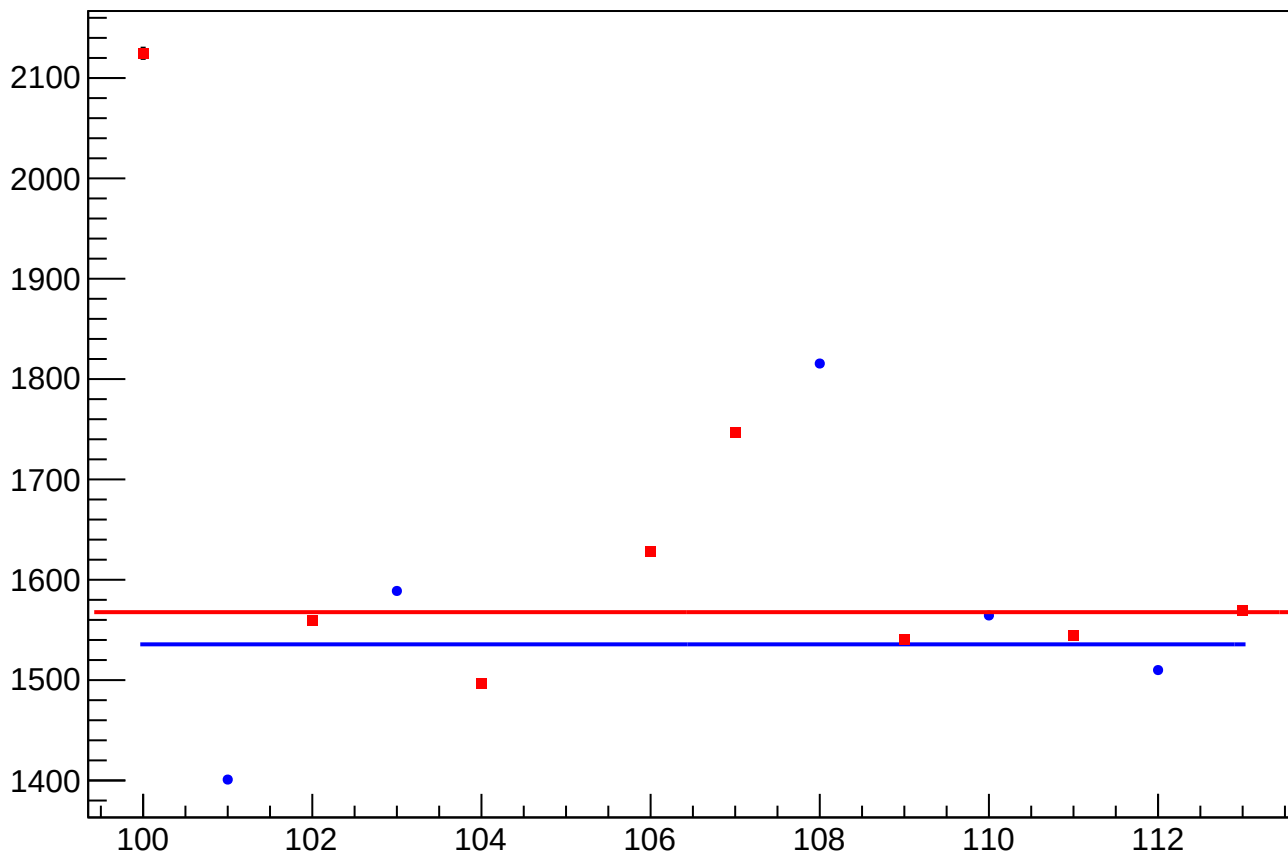
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-647.768 \pm 650.988$   $\chi^2/\text{NDF}$ : 14.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1535.646 $\pm$ 0.685  $\chi^2$ /NDF: 32722.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1567.725 $\pm$ 0.621  $\chi^2$ /NDF: 18651.1/7

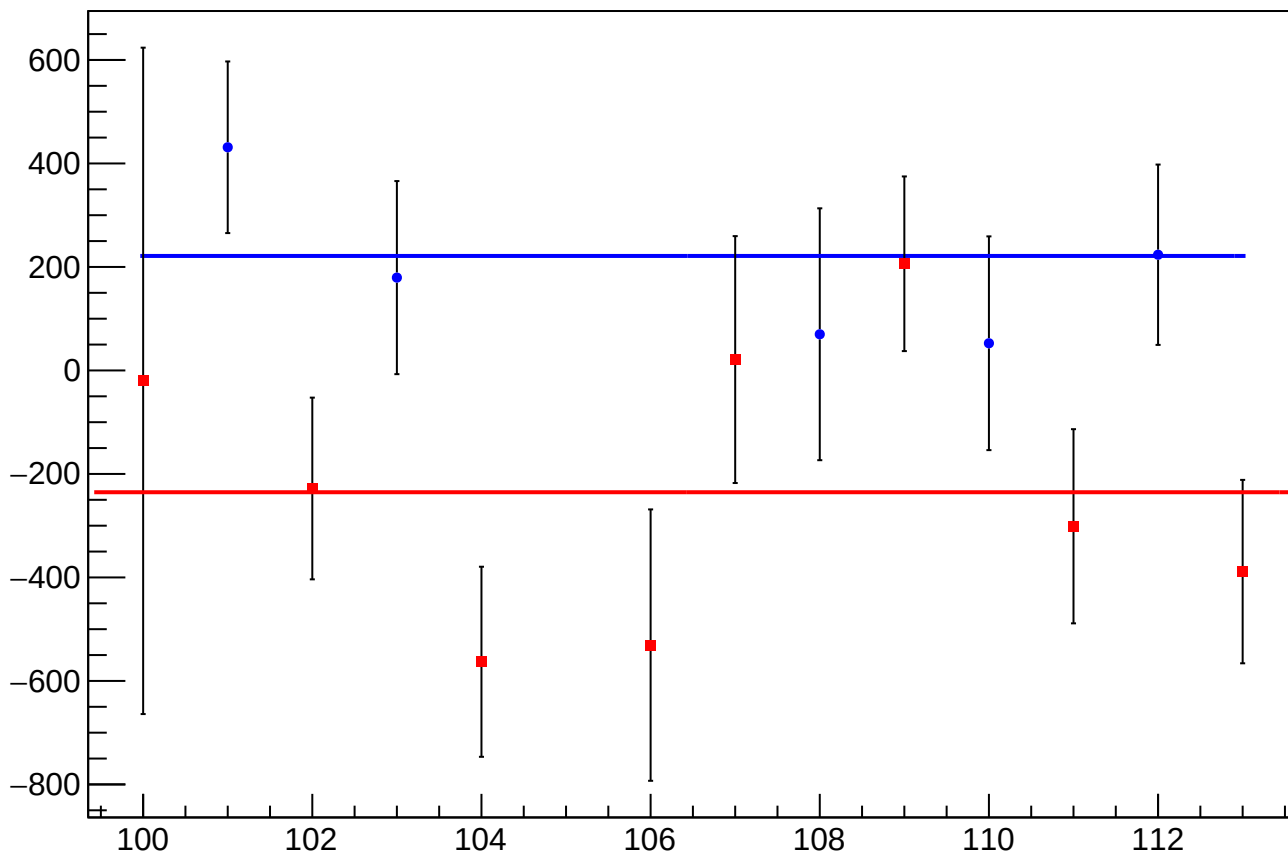
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1553.254 $\pm$ 0.460  $\chi^2$ /NDF: 52576.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 221.273 $\pm$ 85.015  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -235.347 $\pm$ 72.176  $\chi^2$ /NDF: 13.4/7

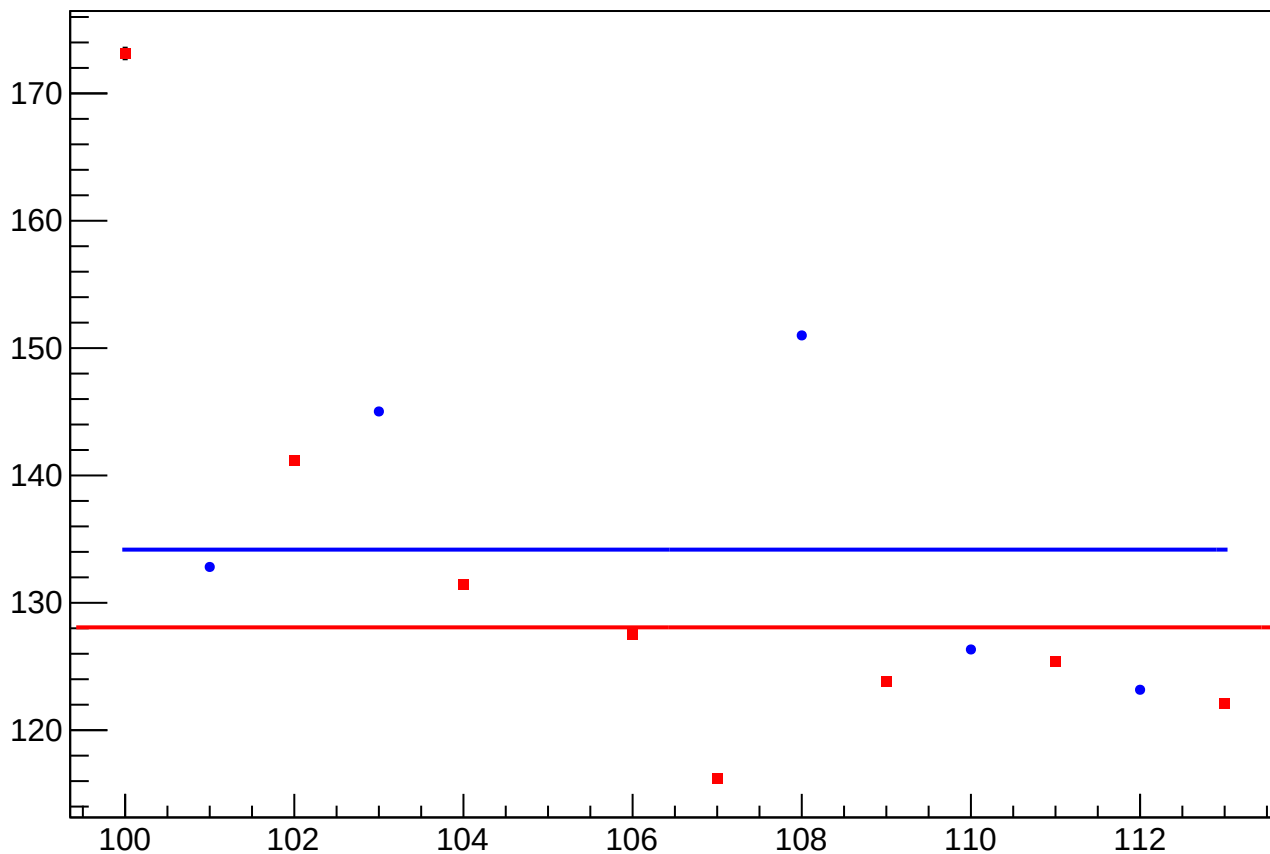
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -44.086 $\pm$ 55.022  $\chi^2$ /NDF: 32.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 134.177+/-0.060  $\chi^2/\text{NDF}$ : 27309.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 128.074+/-0.051  $\chi^2/\text{NDF}$ : 30477.6/7

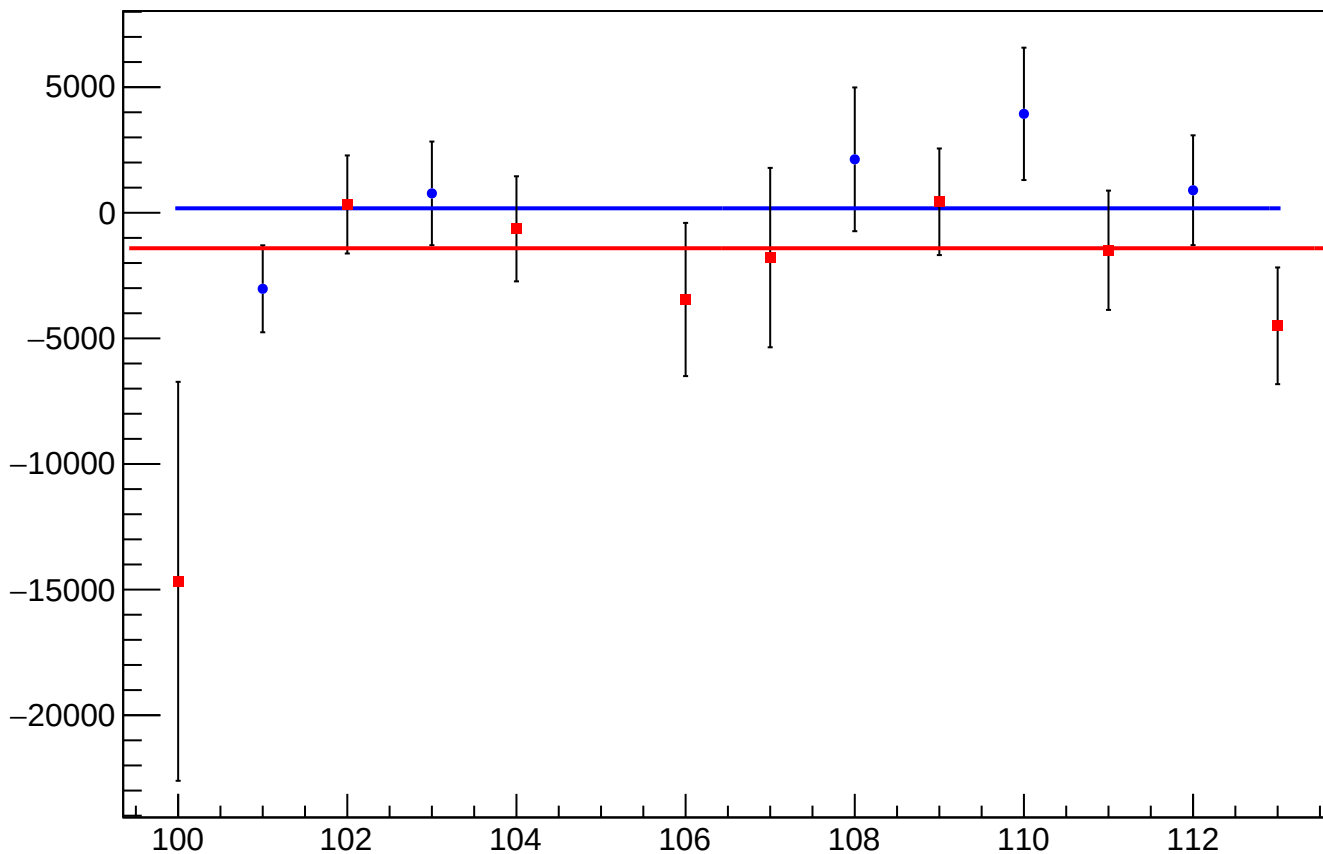
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 130.630+/-0.039  $\chi^2/\text{NDF}$ : 63777.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_dit\_correction\_mean vs Slug



Right In: 177.669 $\pm$ 978.558  $\chi^2$ /NDF: 6.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1411.973 $\pm$ 884.682  $\chi^2$ /NDF: 6.7/7

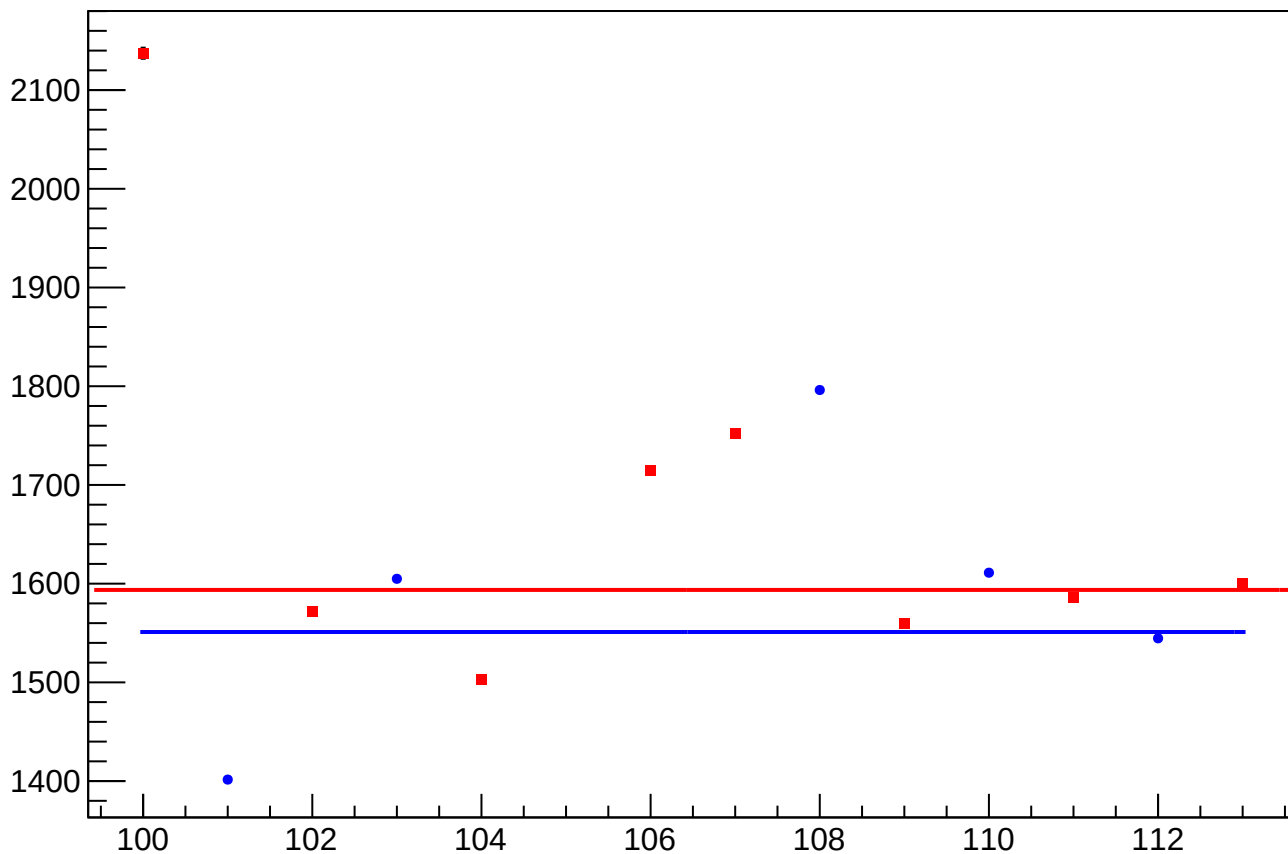
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -697.040 $\pm$ 656.250  $\chi^2$ /NDF: 14.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_24\_68\_dd\_dit\_correction\_rms vs Slug



Right In: 1551.026 $\pm$ 0.692  $\chi^2$ /NDF: 32028.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1593.648 $\pm$ 0.626  $\chi^2$ /NDF: 21054.5/7

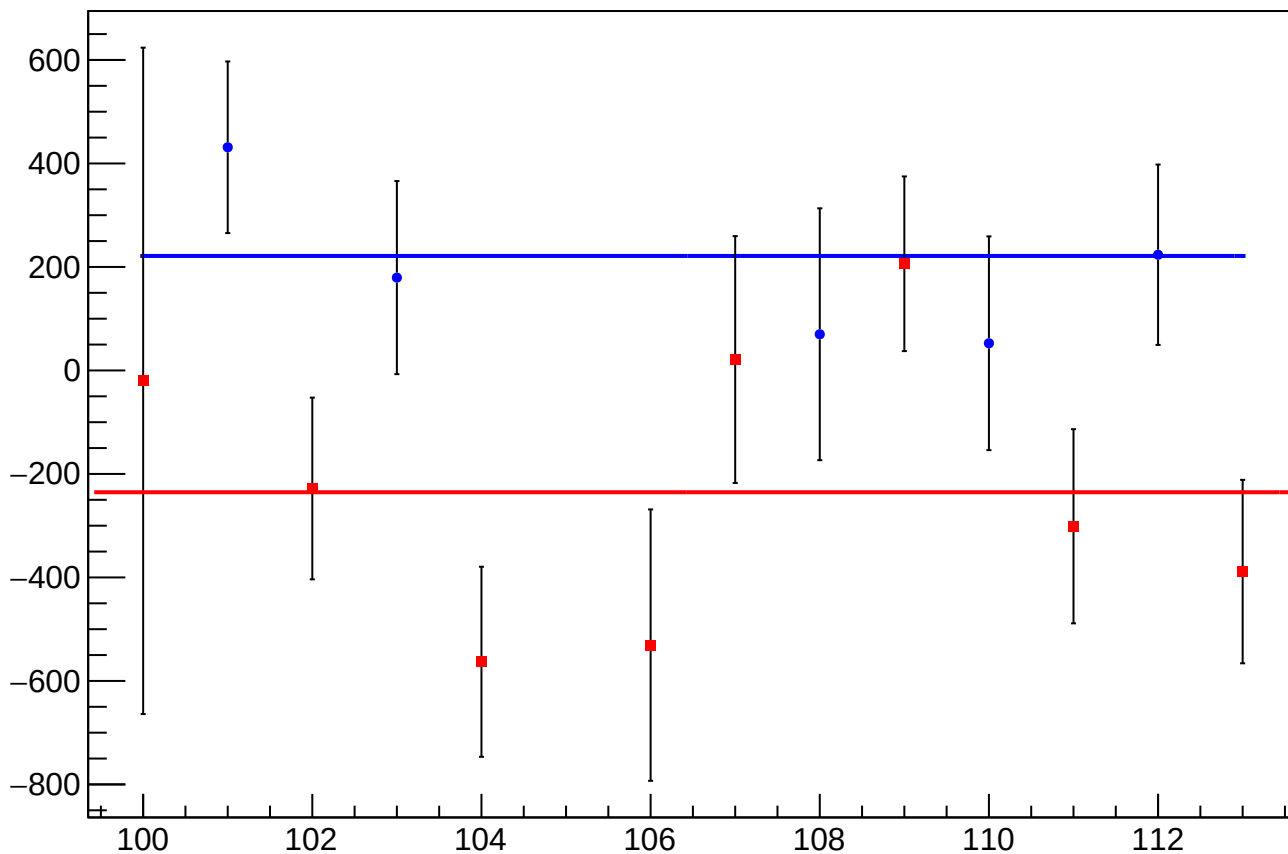
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1574.479 $\pm$ 0.464  $\chi^2$ /NDF: 55170.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 221.266 $\pm$ 85.015  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -235.342 $\pm$ 72.176  $\chi^2$ /NDF: 13.4/7

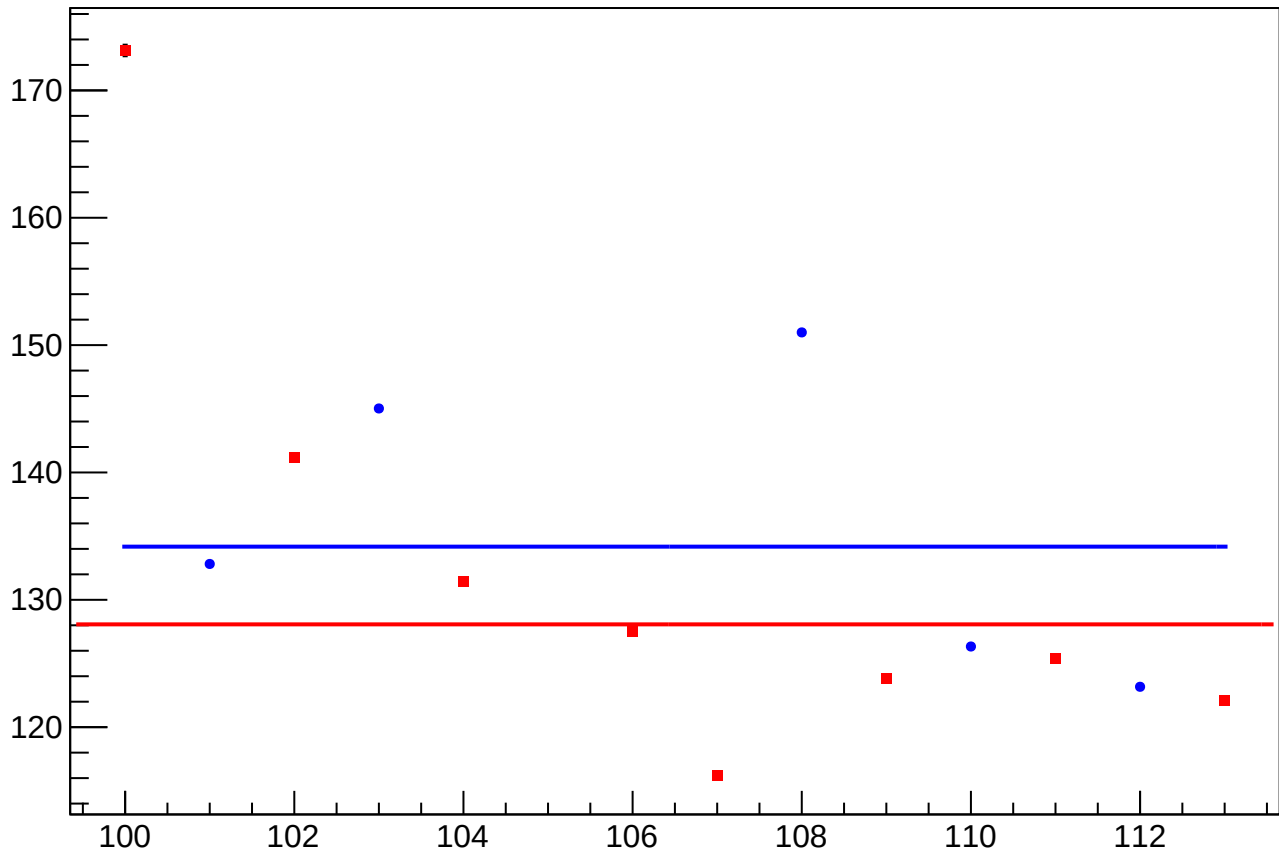
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -44.085 $\pm$ 55.021  $\chi^2$ /NDF: 32.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 134.176 $\pm$ 0.060  $\chi^2$ /NDF: 27314.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 128.073 $\pm$ 0.051  $\chi^2$ /NDF: 30480.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

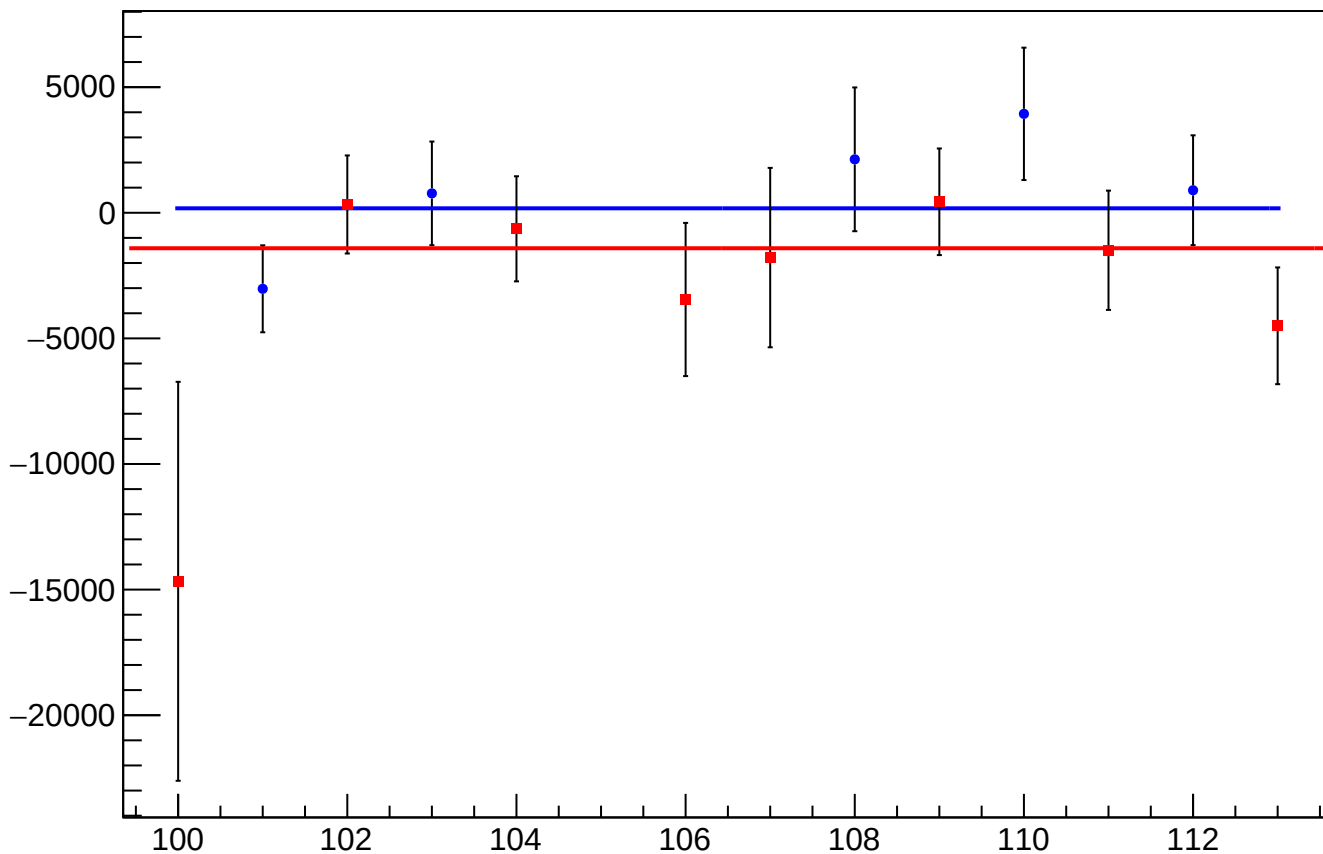
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 130.629 $\pm$ 0.039  $\chi^2$ /NDF: 63784.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_24\_68\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 177.670 $\pm$ 978.556  $\chi^2$ /NDF: 6.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1411.970 $\pm$ 884.680  $\chi^2$ /NDF: 6.7/7

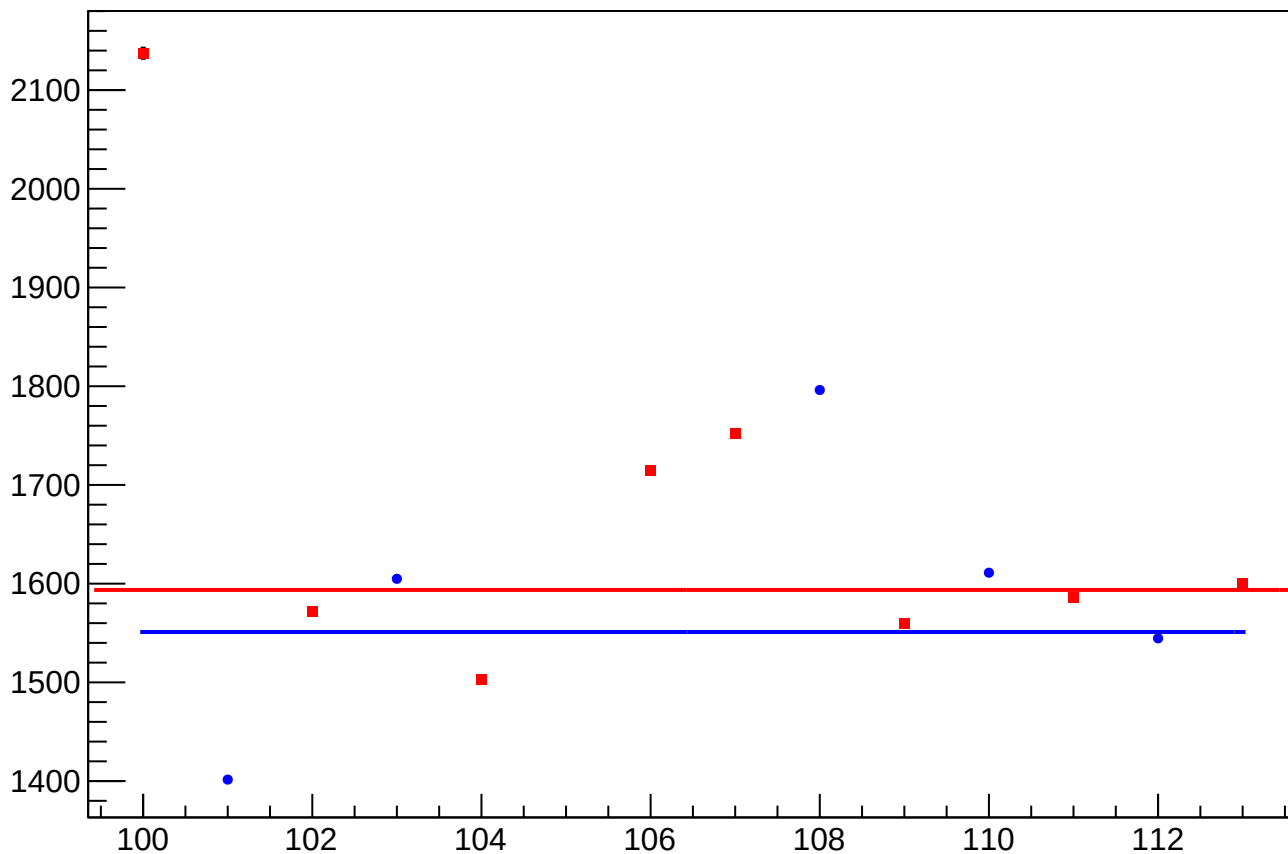
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -697.039 $\pm$ 656.249  $\chi^2$ /NDF: 14.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1551.022+/-0.692  $\chi^2/\text{NDF}$ : 32028.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1593.644+/-0.626  $\chi^2/\text{NDF}$ : 21054.8/7

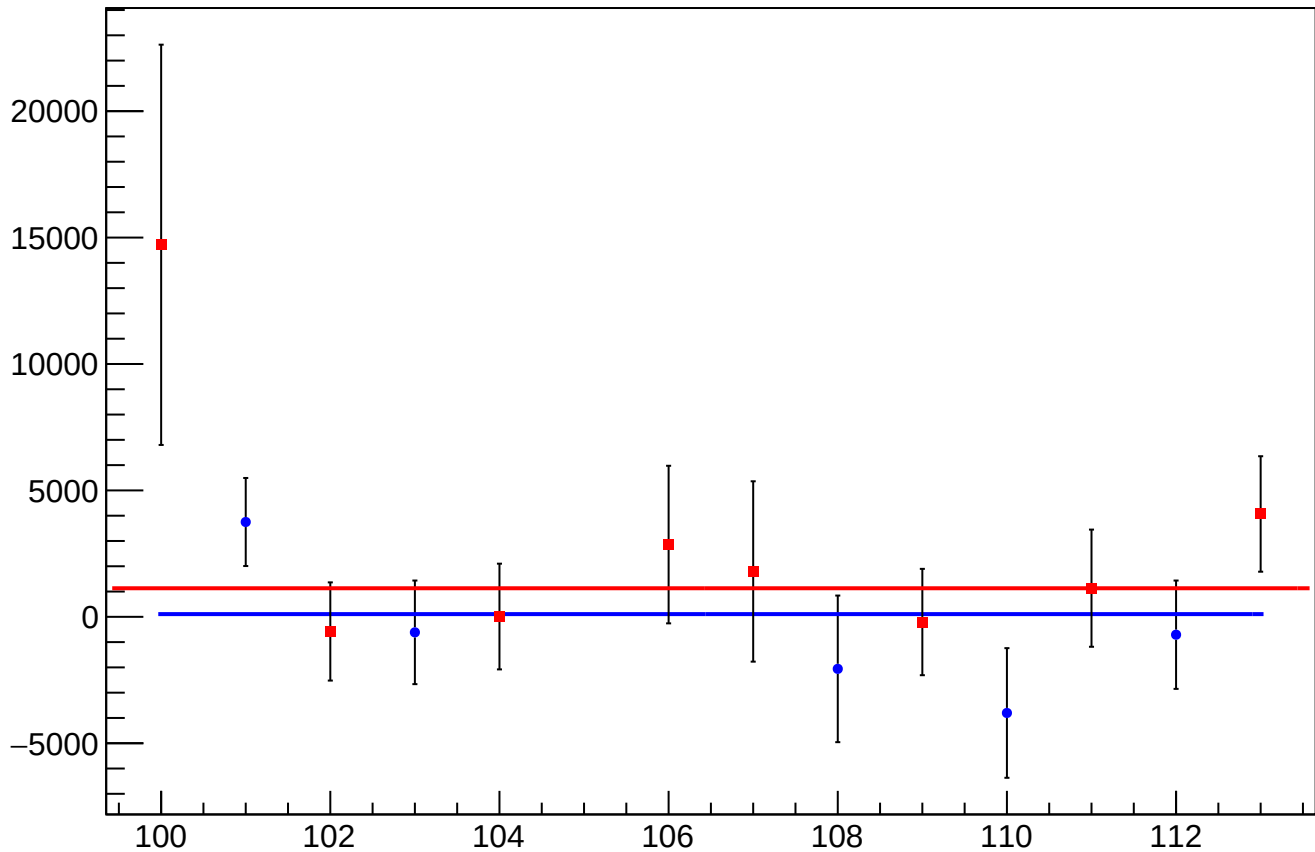
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1574.475+/-0.464  $\chi^2/\text{NDF}$ : 55170.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 107.379 $\pm$ 972.724  $\chi^2$ /NDF: 7.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1129.773 $\pm$ 878.574  $\chi^2$ /NDF: 6.4/7

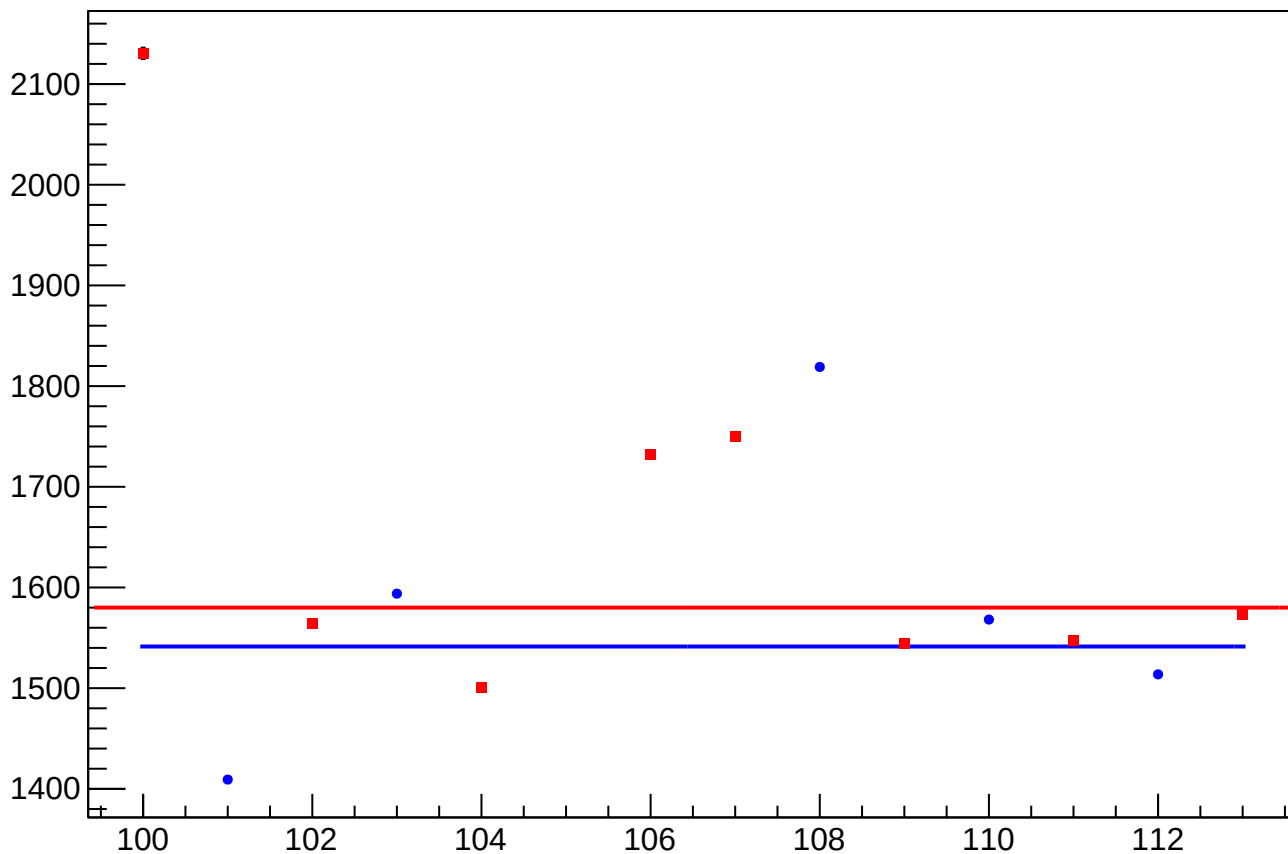
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 670.437 $\pm$ 651.997  $\chi^2$ /NDF: 14.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 1541.375+/-0.688  $\chi^2/\text{NDF}$ : 31724.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1580.035+/-0.621  $\chi^2/\text{NDF}$ : 22916.4/7

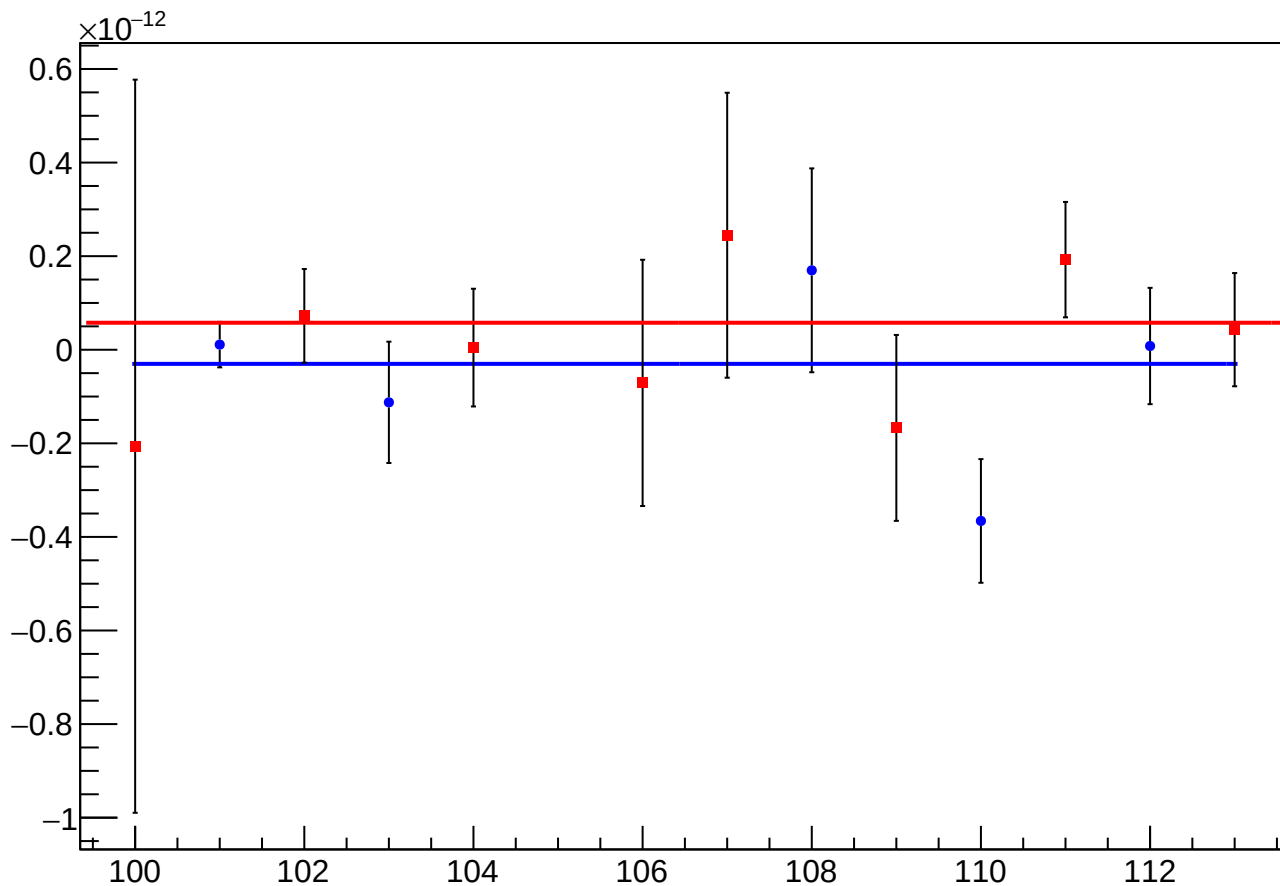
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1562.666+/-0.461  $\chi^2/\text{NDF}$ : 56380.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 8.5/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 3.4/7

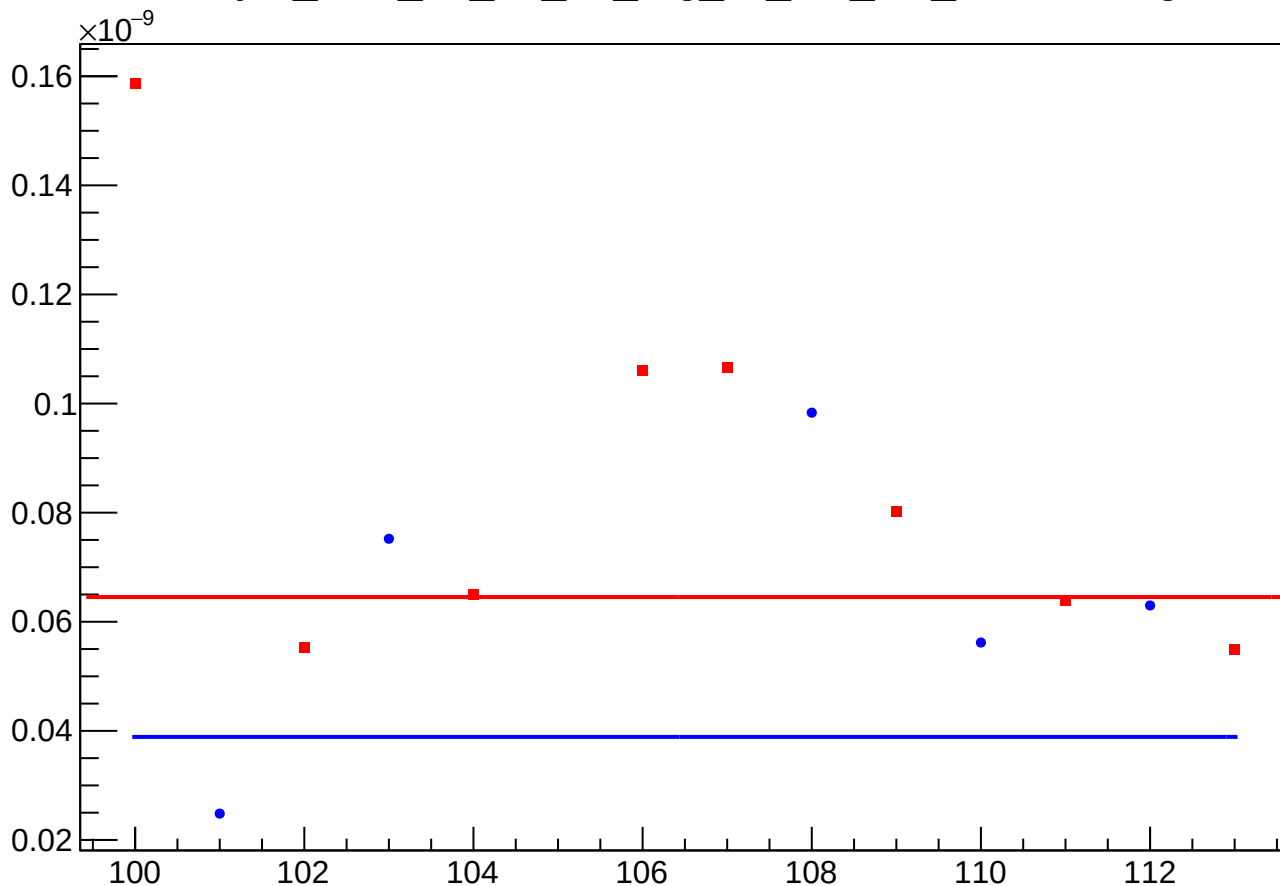
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 13.7/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 583015.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 159099.6/7

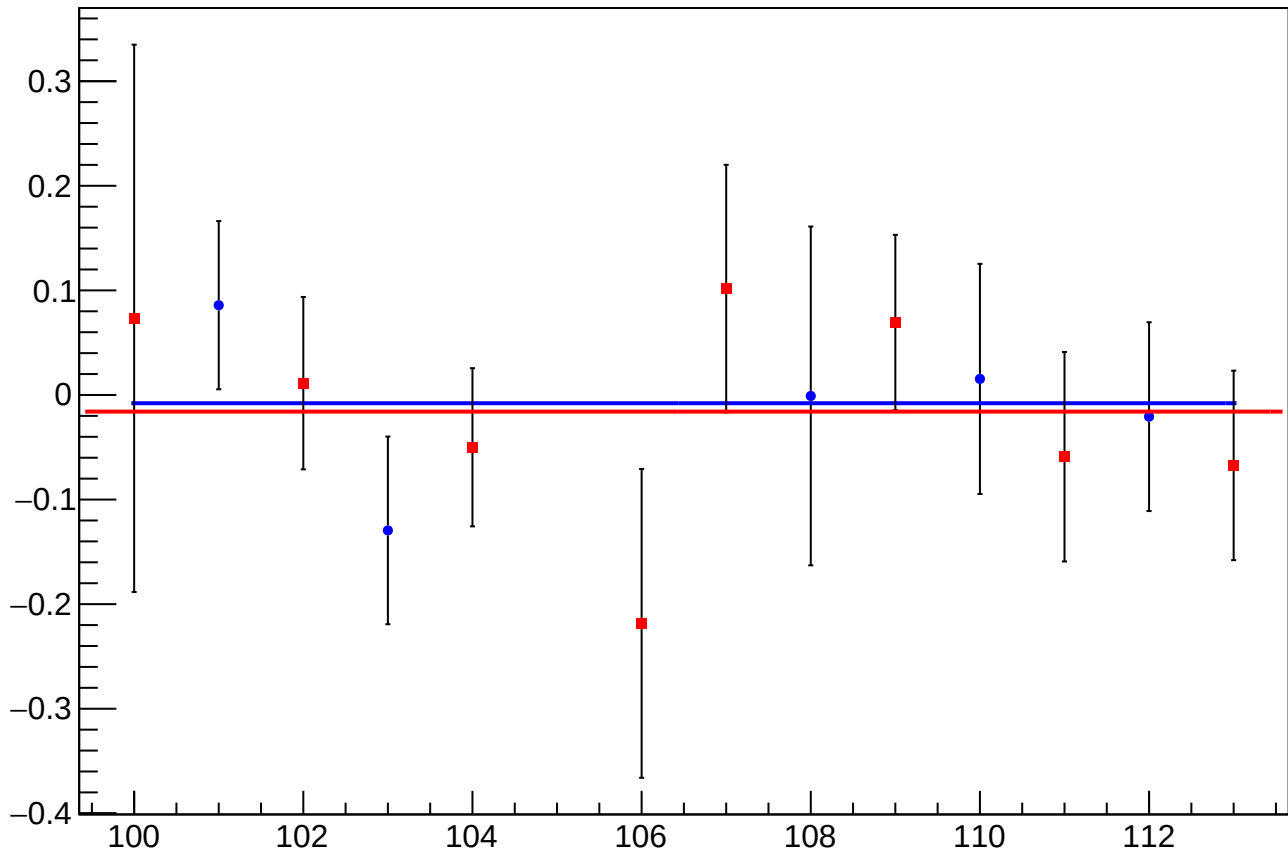
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1036923.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.044  $\chi^2$ /NDF: 3.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.016 $\pm$ 0.035  $\chi^2$ /NDF: 4.8/7

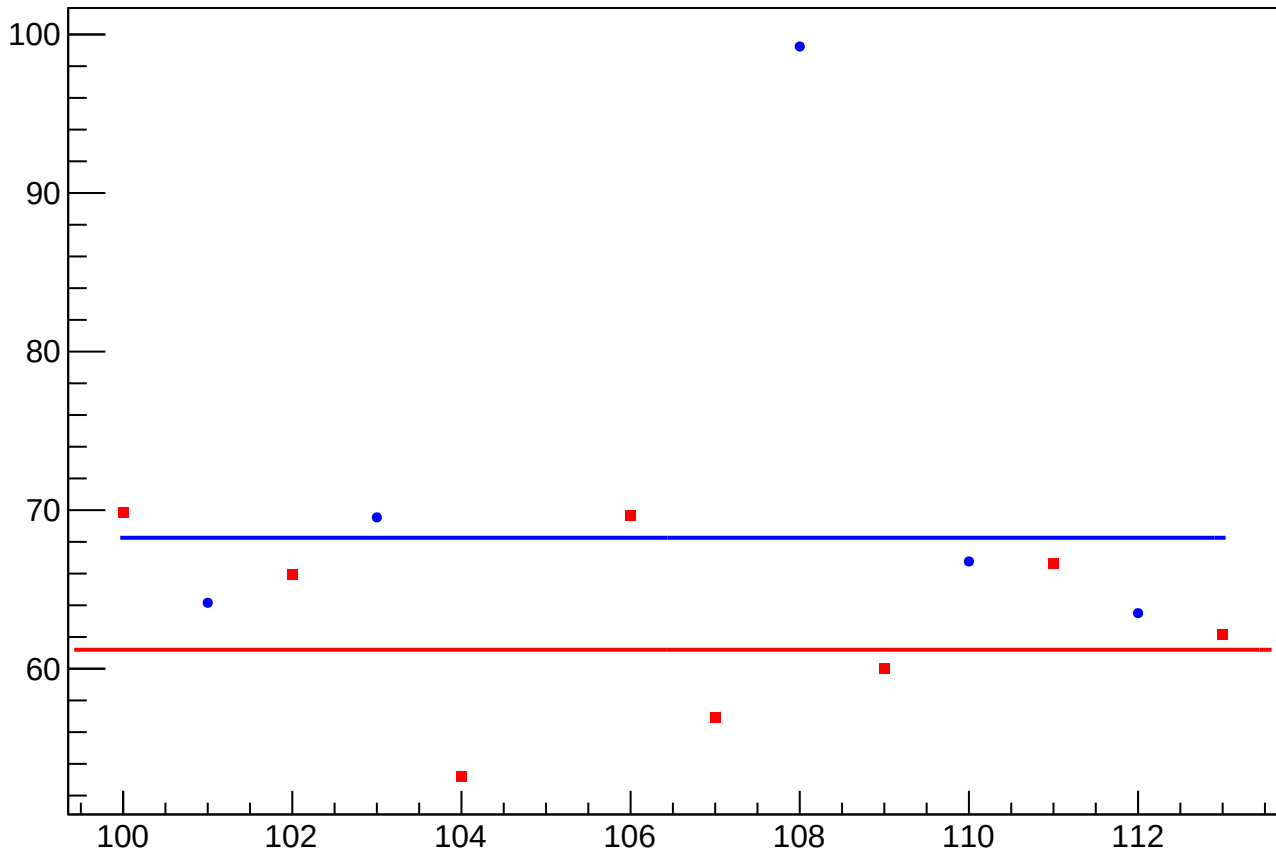
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.027  $\chi^2$ /NDF: 8.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 68.258+/-0.031  $\chi^2/\text{NDF}$ : 84701.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 61.195+/-0.025  $\chi^2/\text{NDF}$ : 46940.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

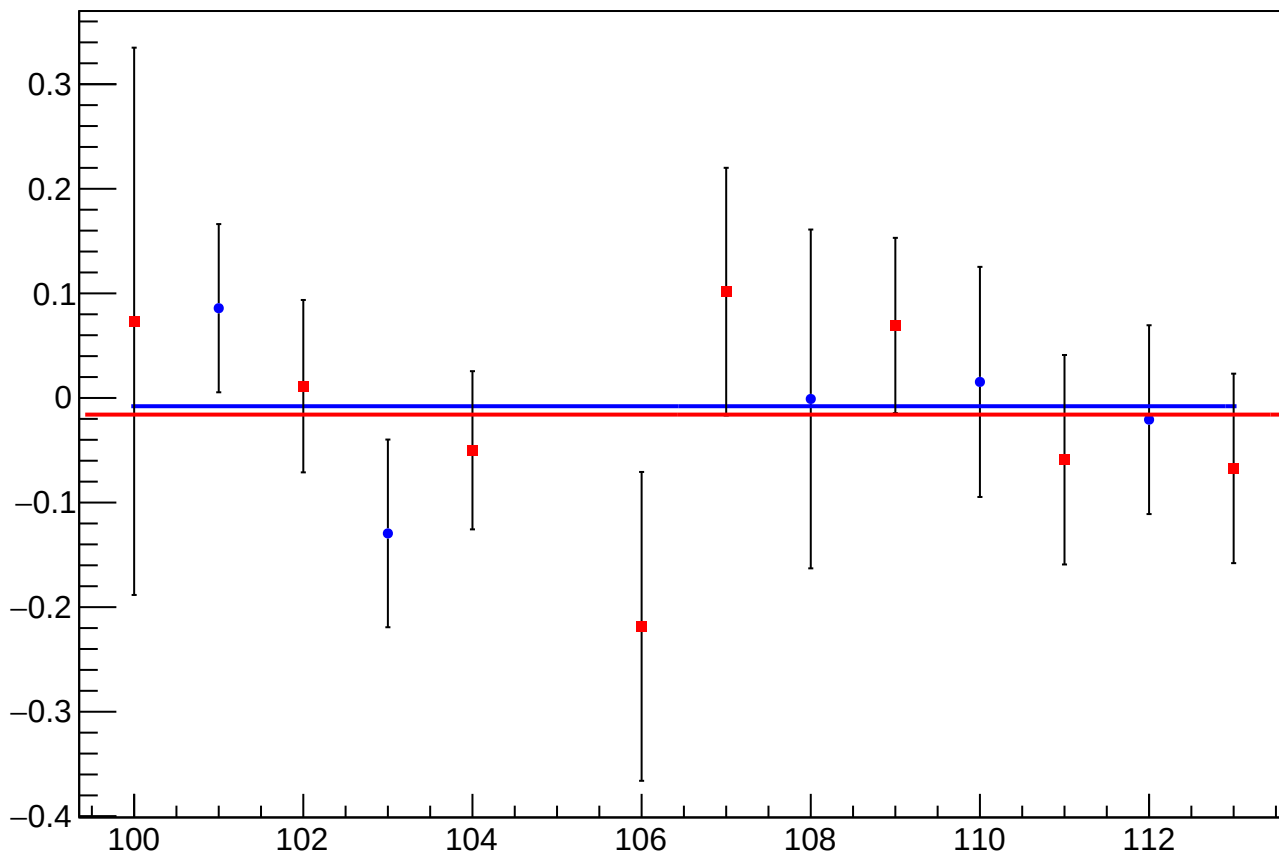
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 63.948+/-0.019  $\chi^2/\text{NDF}$ : 163445.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_24\_68\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.044  $\chi^2$ /NDF: 3.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.016 $\pm$ 0.035  $\chi^2$ /NDF: 4.8/7

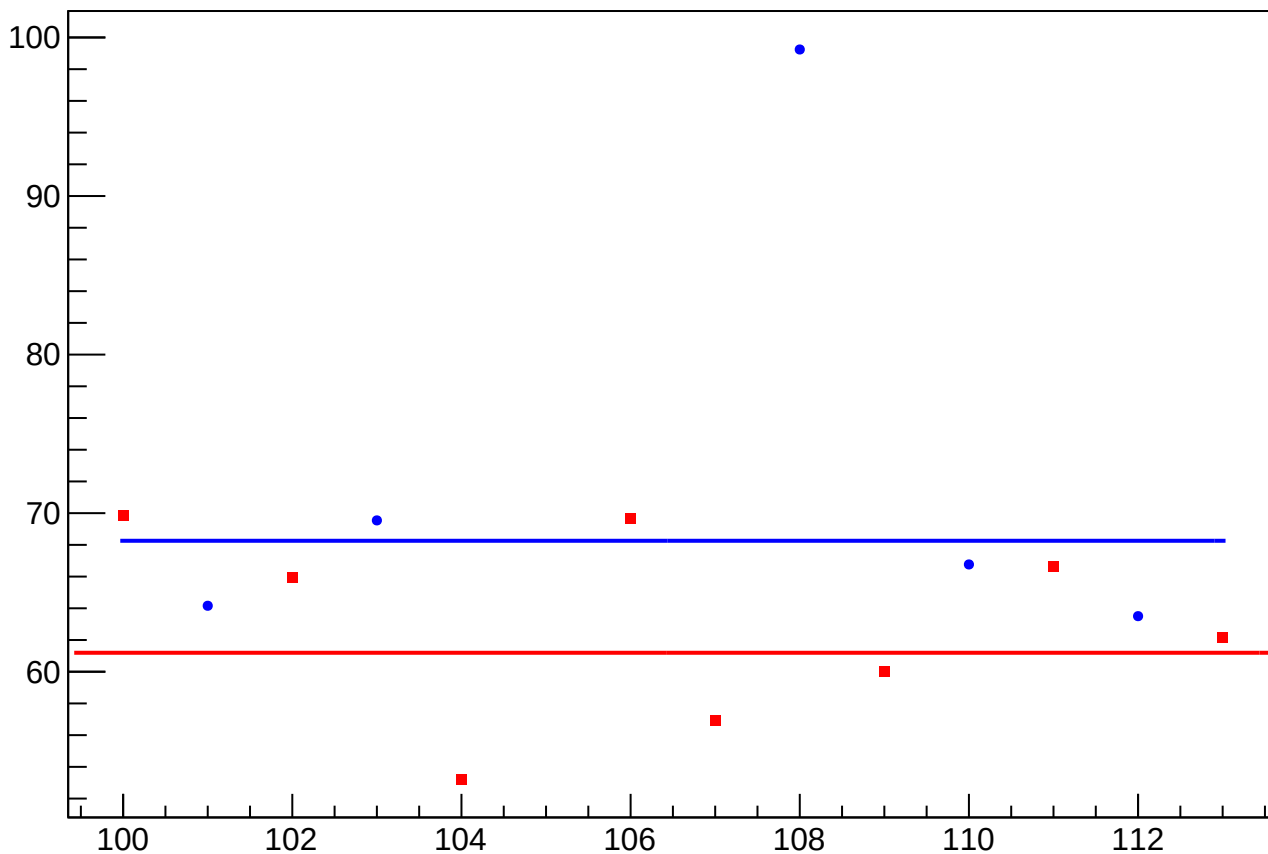
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.027  $\chi^2$ /NDF: 8.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 68.258 $\pm$ 0.031  $\chi^2$ /NDF: 84701.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 61.195 $\pm$ 0.025  $\chi^2$ /NDF: 46940.6/7

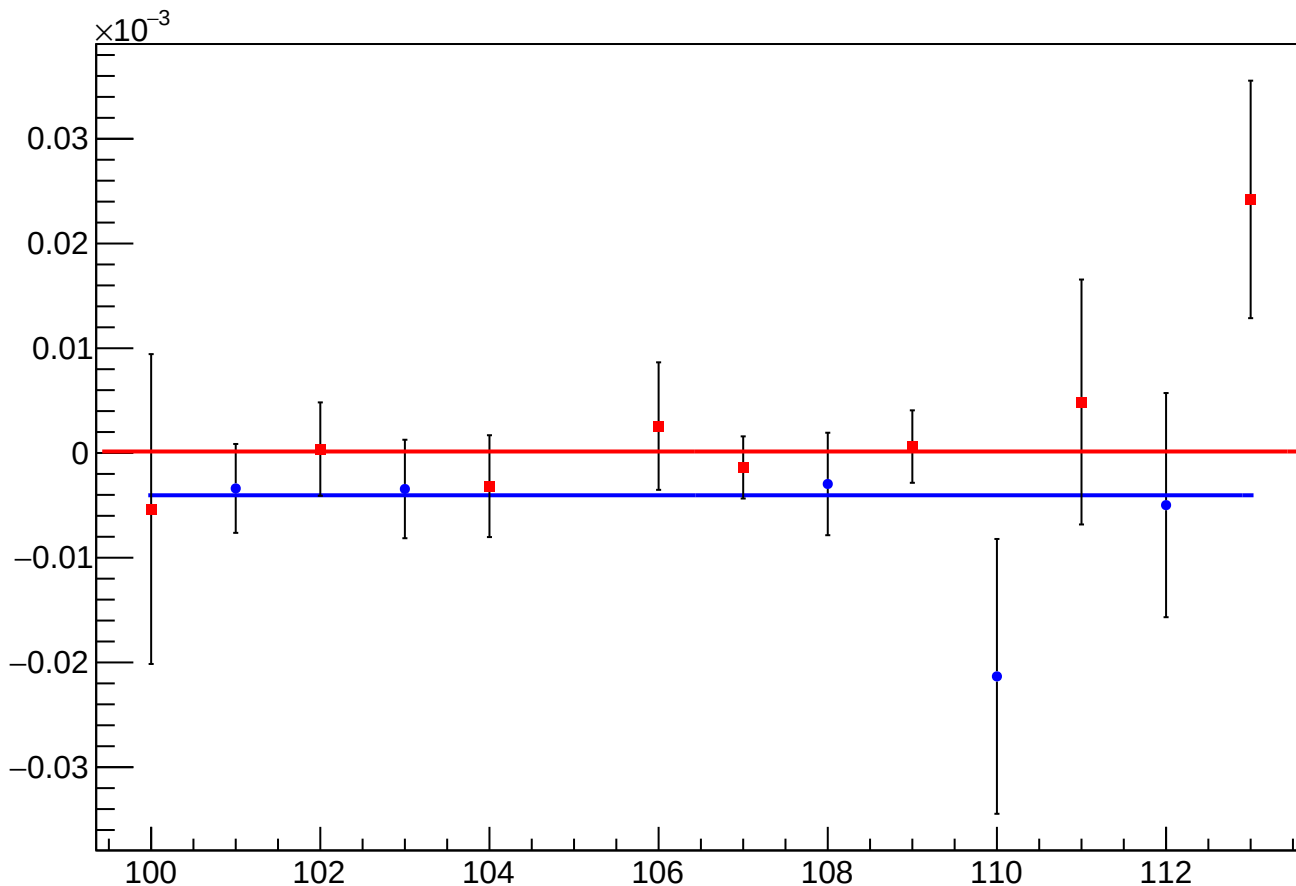
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 63.948 $\pm$ 0.019  $\chi^2$ /NDF: 163445.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.7/7

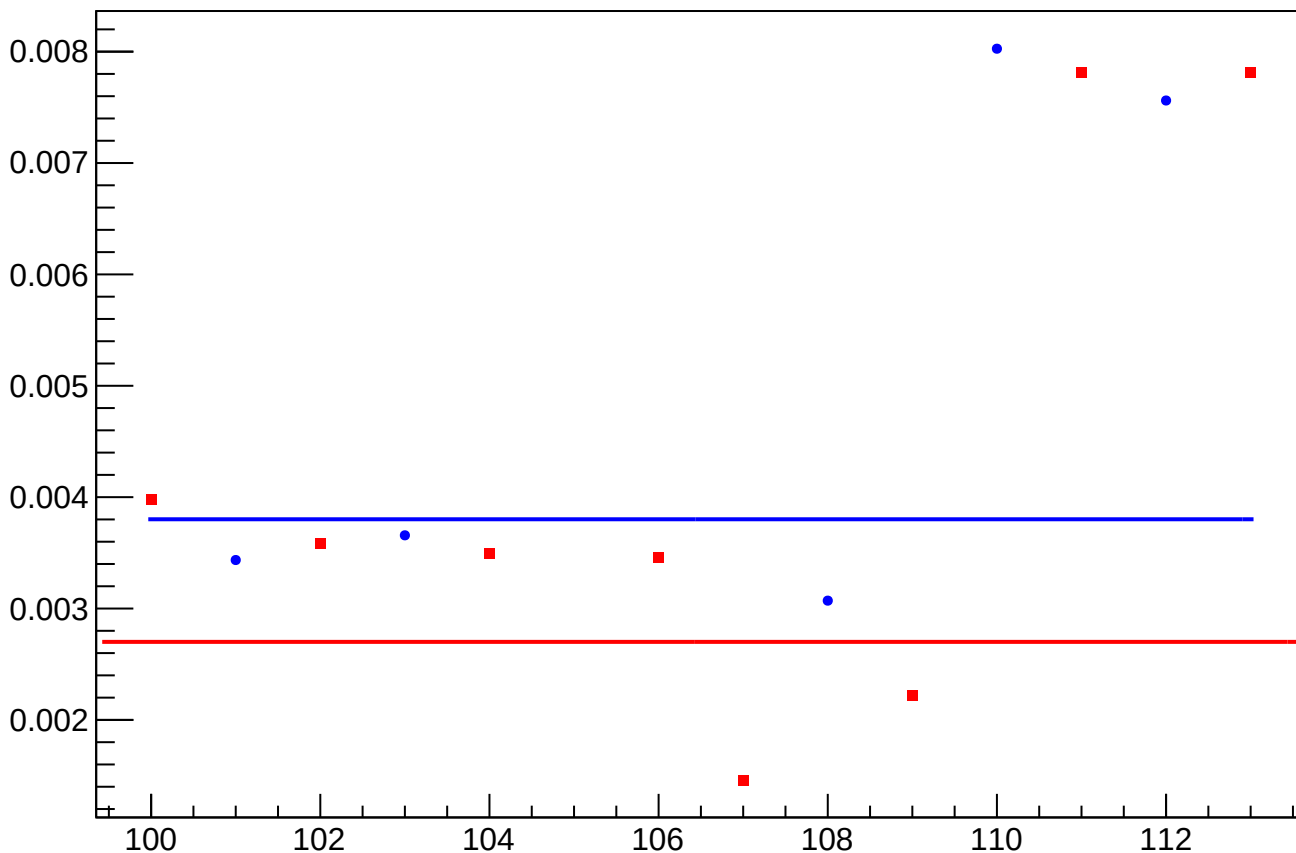
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 515587.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1356843.8/7

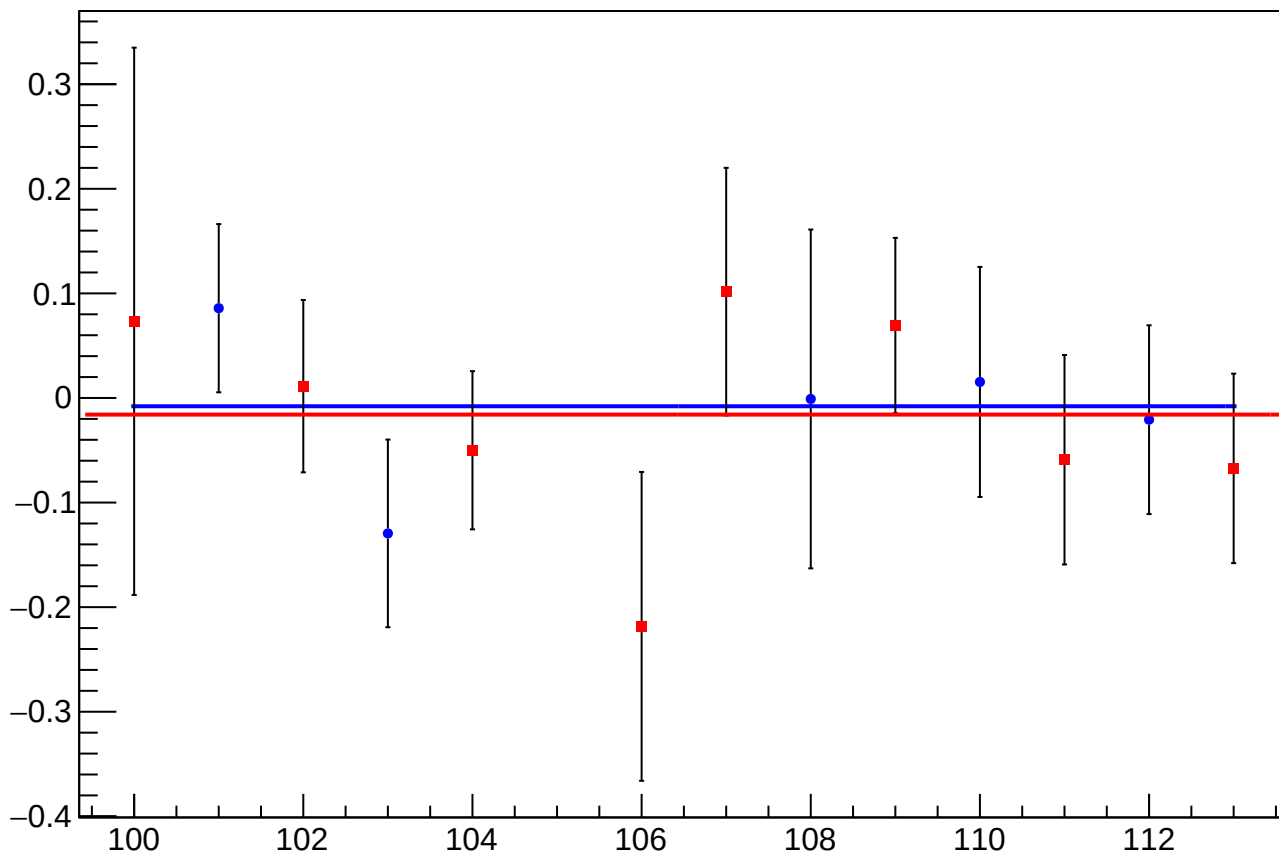
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2131979.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.044  $\chi^2$ /NDF: 3.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.016 $\pm$ 0.035  $\chi^2$ /NDF: 4.8/7

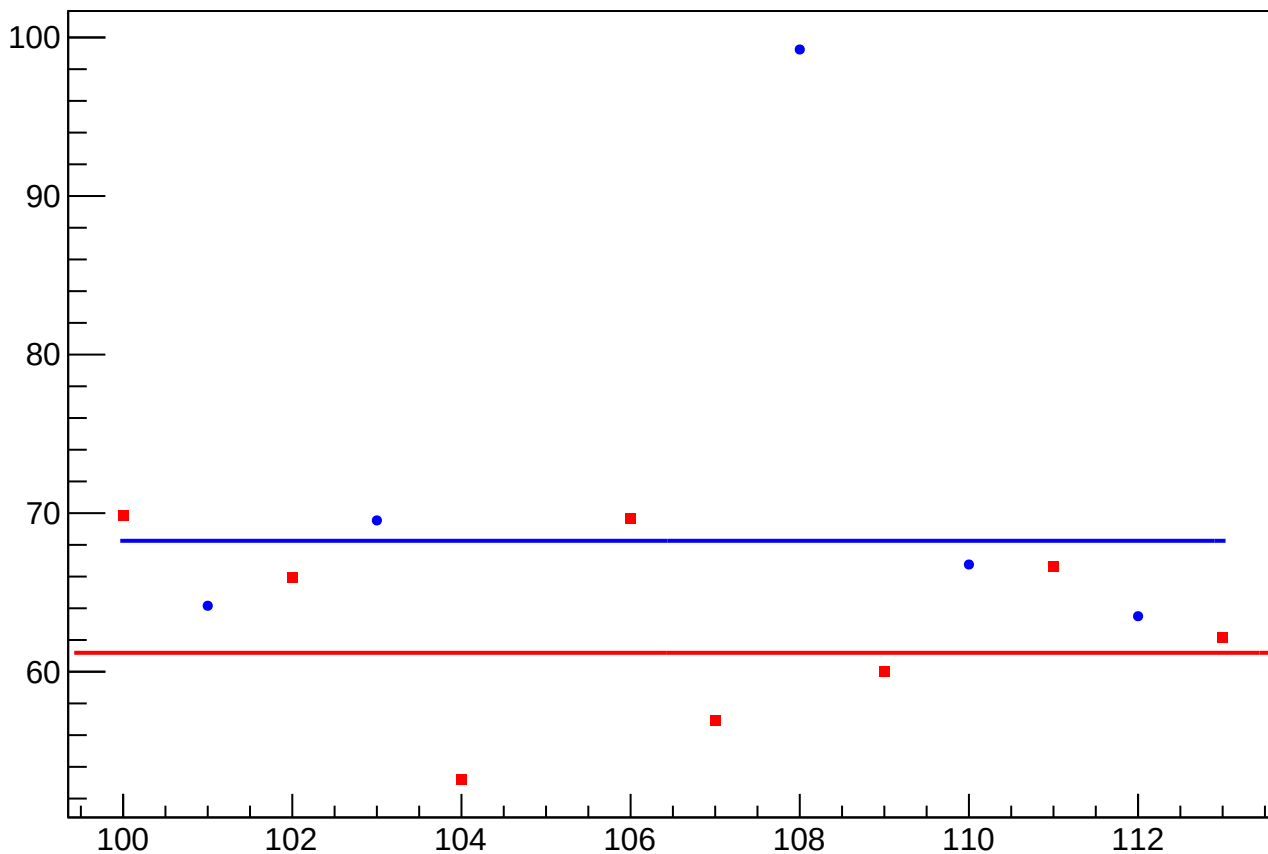
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.027  $\chi^2$ /NDF: 8.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 68.256 $\pm$ 0.031  $\chi^2$ /NDF: 84712.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 61.194 $\pm$ 0.025  $\chi^2$ /NDF: 46931.4/7

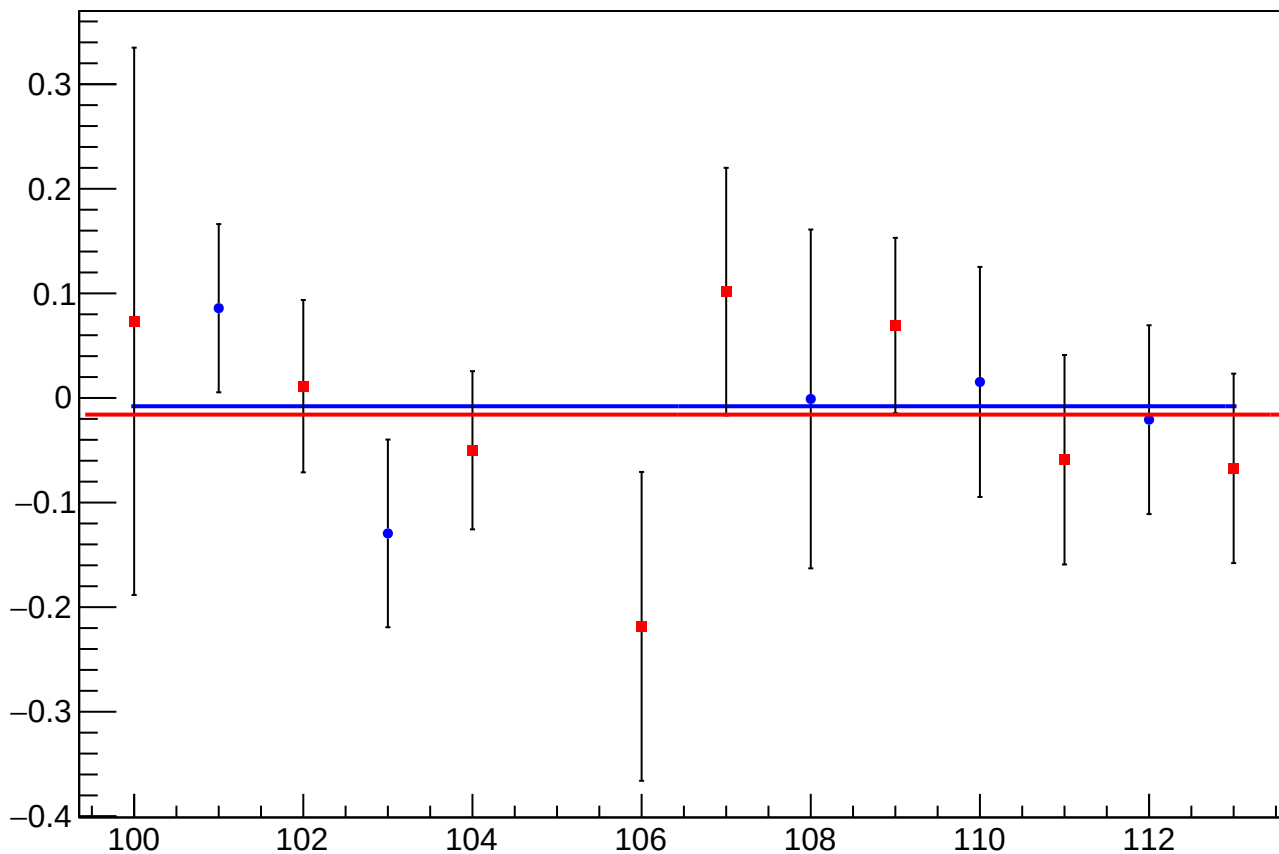
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 63.946 $\pm$ 0.019  $\chi^2$ /NDF: 163444.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.008+/-0.044  $\chi^2/\text{NDF}$ : 3.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.016+/-0.035  $\chi^2/\text{NDF}$ : 4.8/7

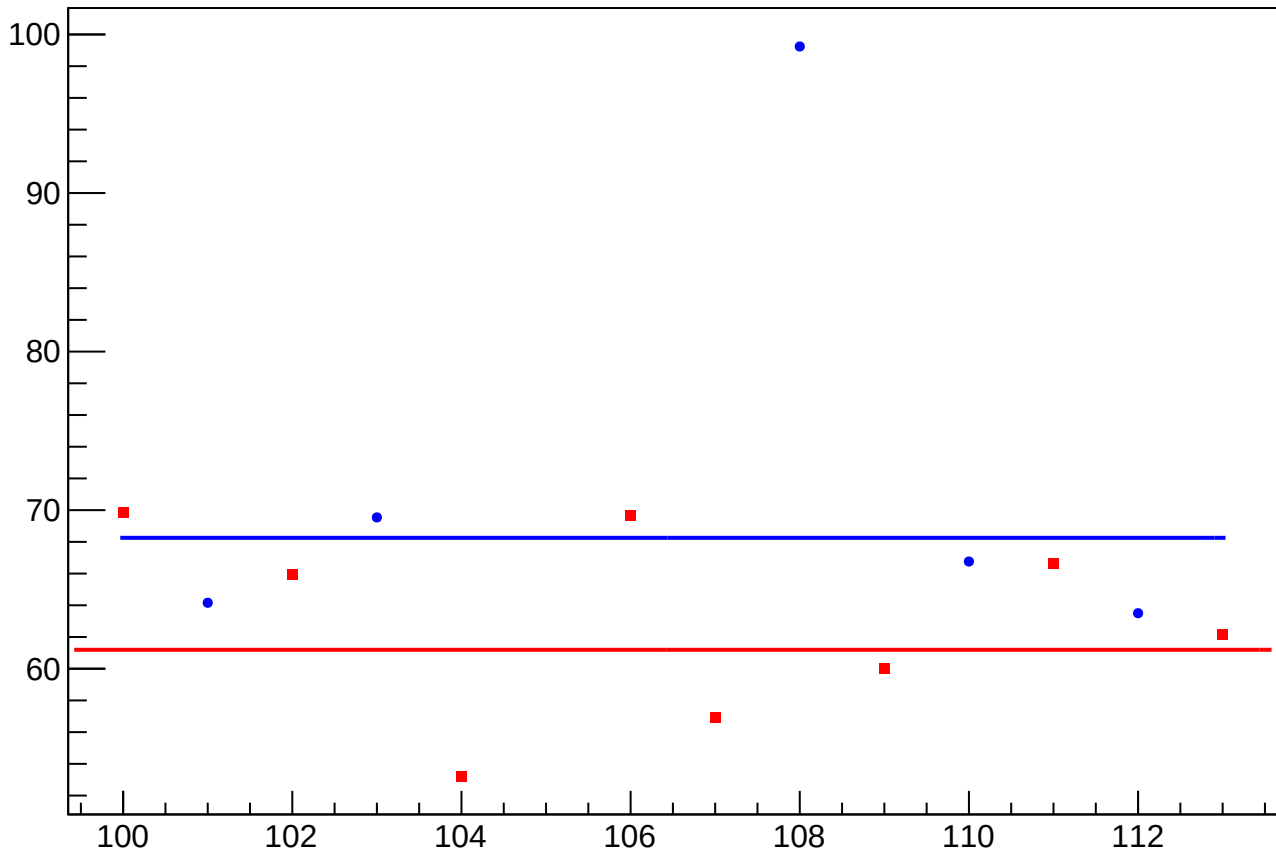
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.013+/-0.027  $\chi^2/\text{NDF}$ : 8.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 68.256 $\pm$ 0.031  $\chi^2$ /NDF: 84712.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 61.194 $\pm$ 0.025  $\chi^2$ /NDF: 46931.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

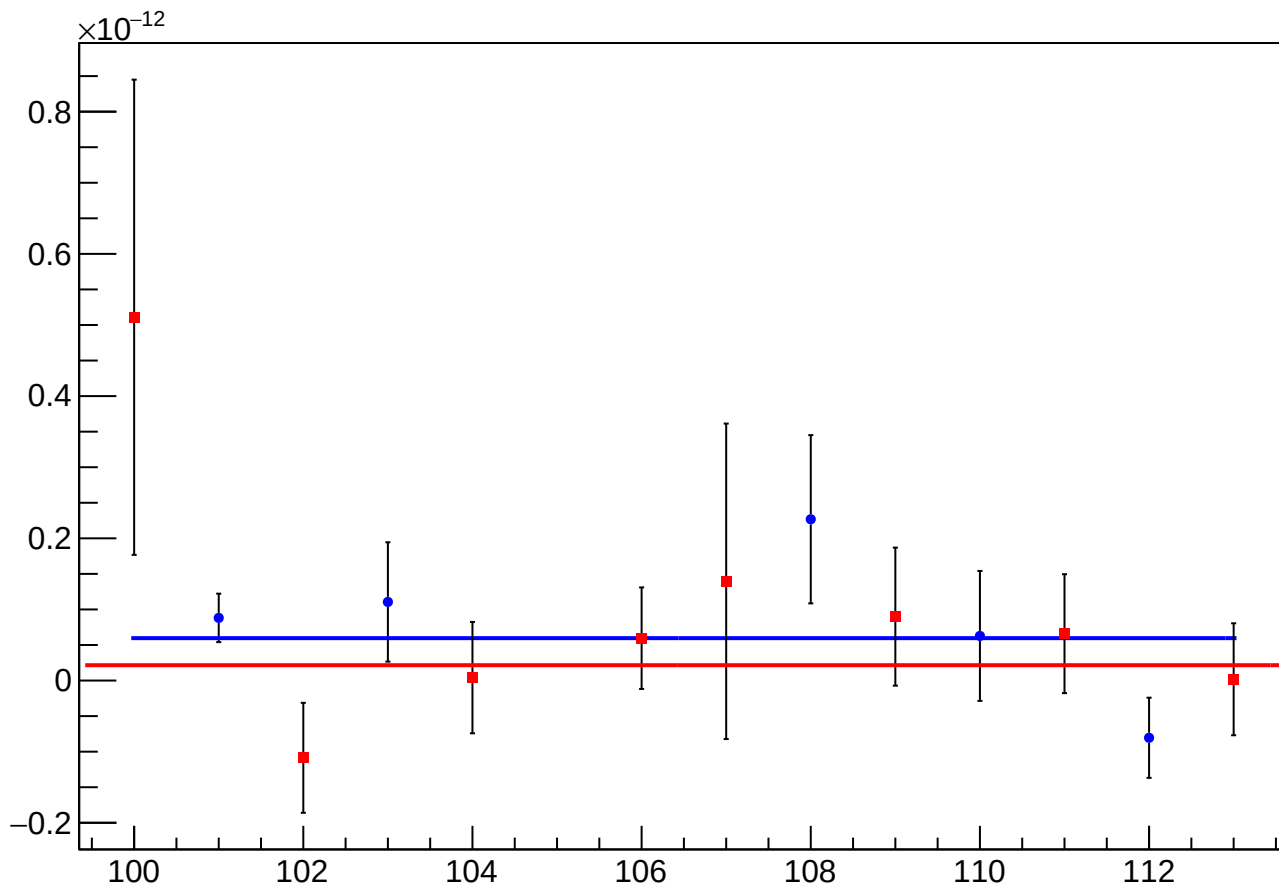
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 63.946 $\pm$ 0.019  $\chi^2$ /NDF: 163444.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_24\_68\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.4/7

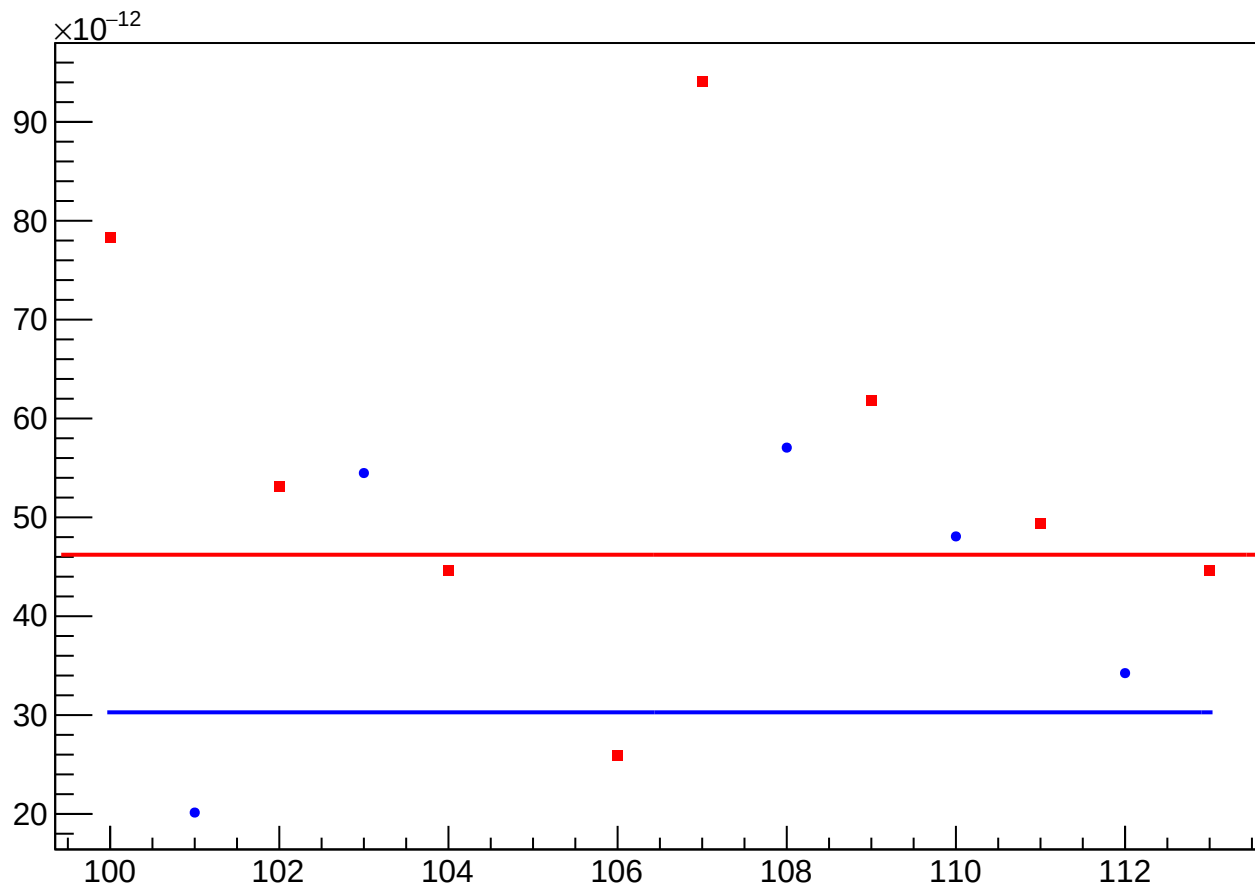
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 531590.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 345998.3/7

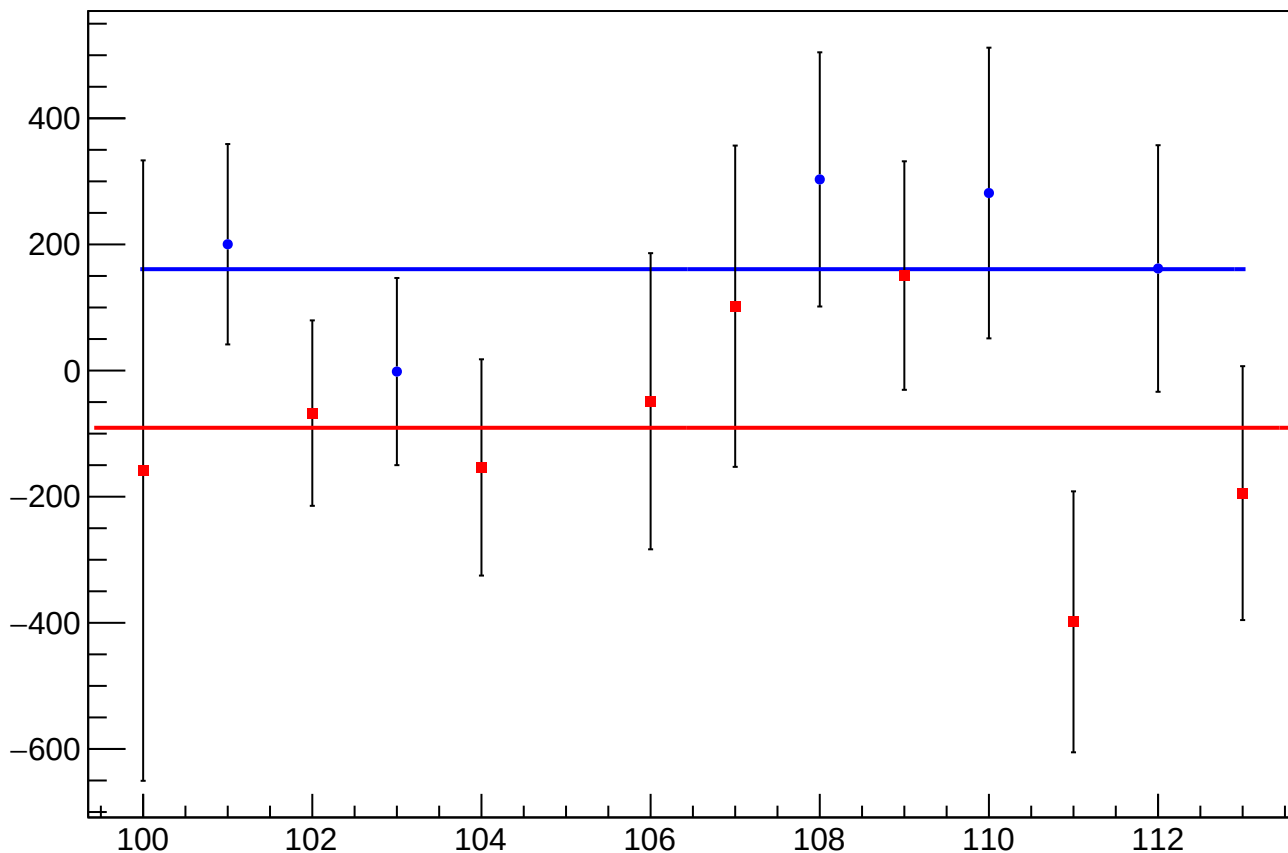
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1176990.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 160.760 $\pm$ 80.411  $\chi^2$ /NDF: 2.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -90.728 $\pm$ 71.345  $\chi^2$ /NDF: 5.0/7

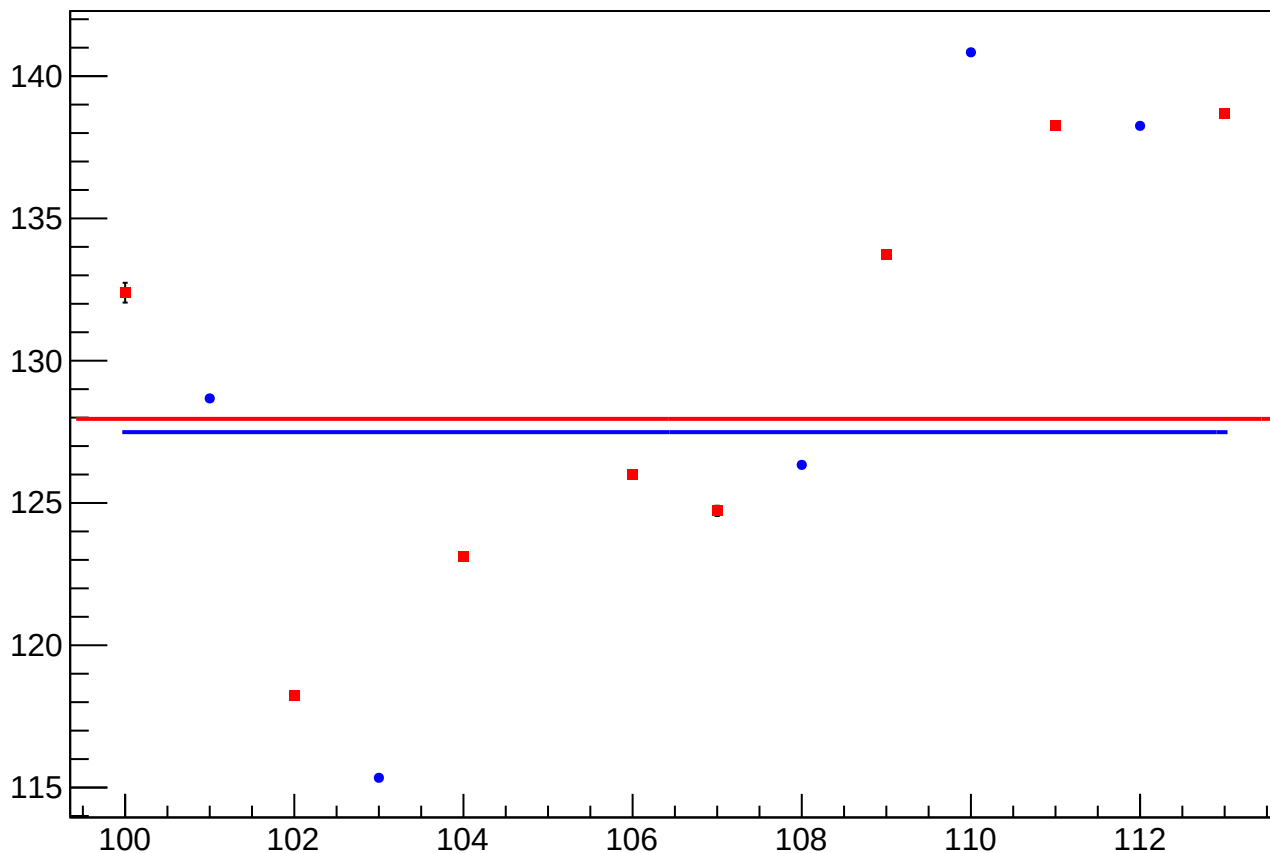
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 20.045 $\pm$ 53.367  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 127.489 $\pm$ 0.057  $\chi^2$ /NDF: 26351.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.956 $\pm$ 0.050  $\chi^2$ /NDF: 23667.4/7

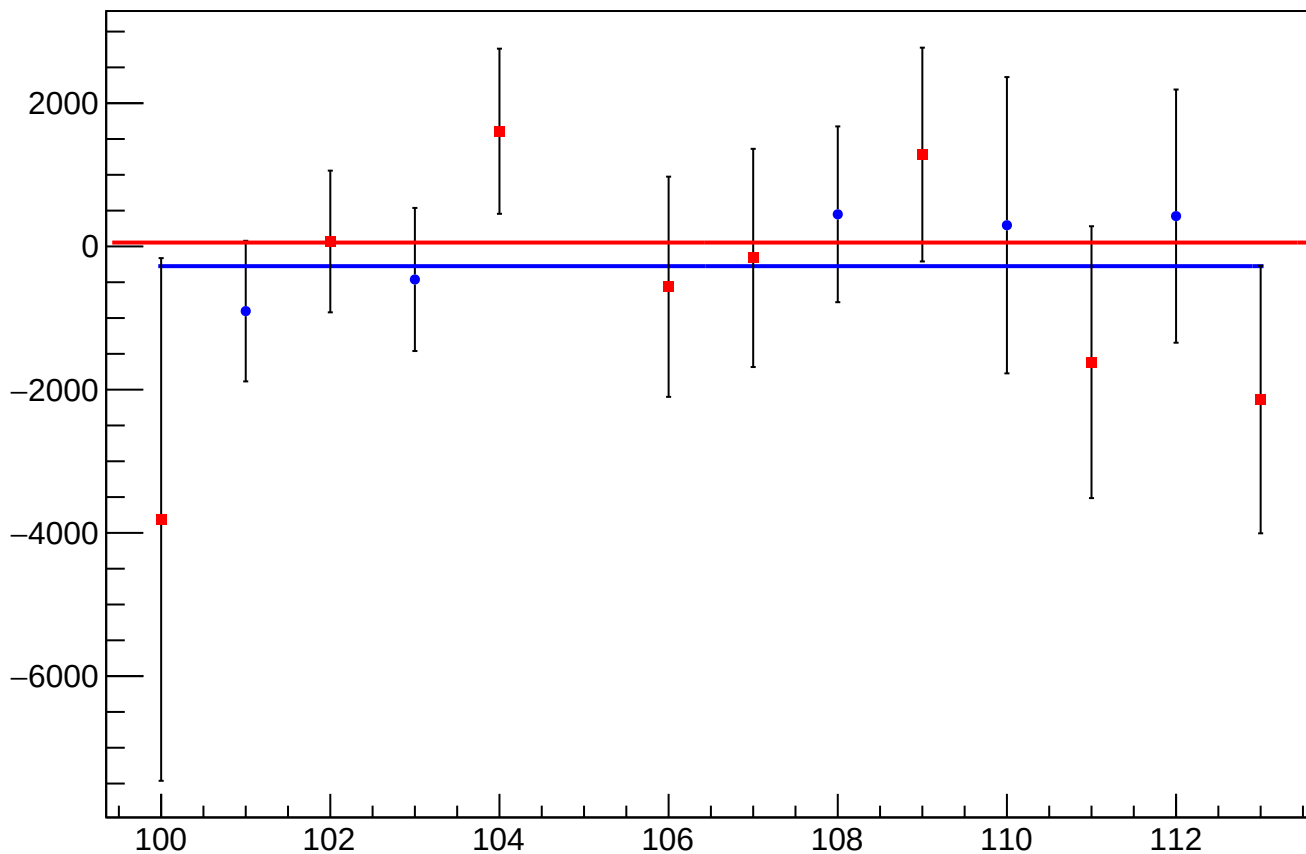
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 127.750 $\pm$ 0.038  $\chi^2$ /NDF: 50056.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_reg\_correction\_mean vs Slug



Right In: -275.450+/-554.082  $\chi^2$ /NDF: 1.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 54.051+/-518.752  $\chi^2$ /NDF: 6.0/7

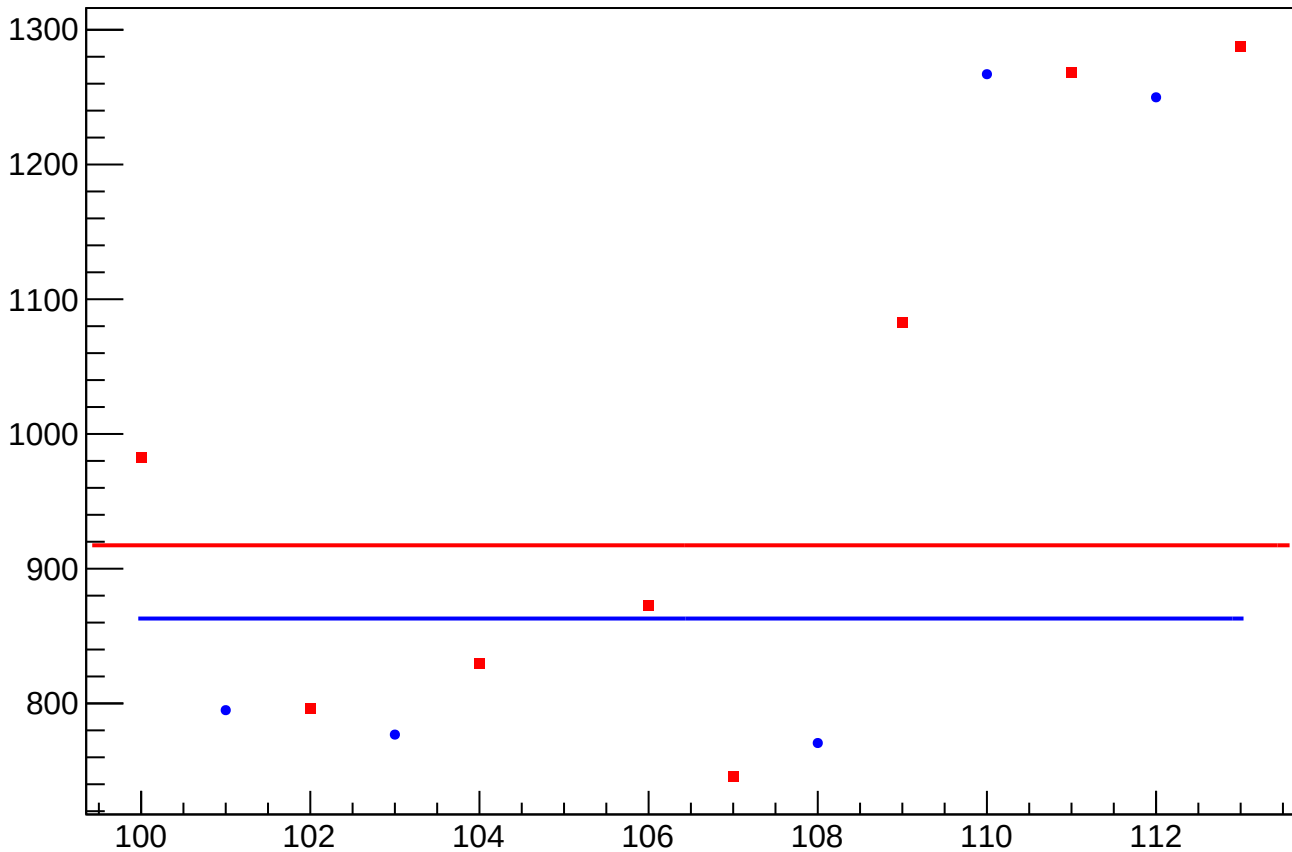
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -99.860+/-378.687  $\chi^2$ /NDF: 7.2/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_reg\_correction\_rms vs Slug



Right In: 863.005 $\pm$ 0.392  $\chi^2$ /NDF: 207893.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 917.362 $\pm$ 0.367  $\chi^2$ /NDF: 240635.0/7

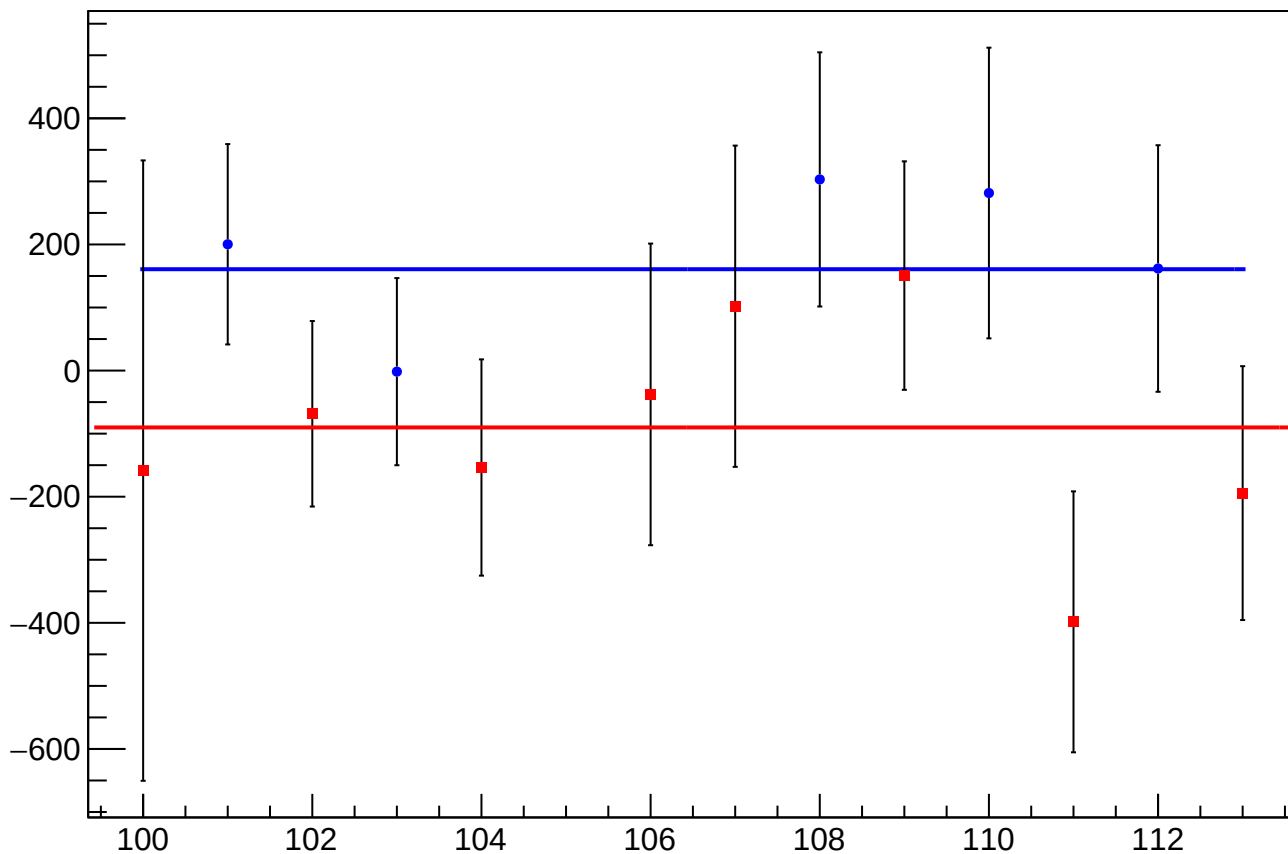
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 891.972 $\pm$ 0.268  $\chi^2$ /NDF: 458785.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 160.738 $\pm$ 80.411  $\chi^2$ /NDF: 2.0/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -90.164 $\pm$ -71.469  $\chi^2$ /NDF: 5.0/7

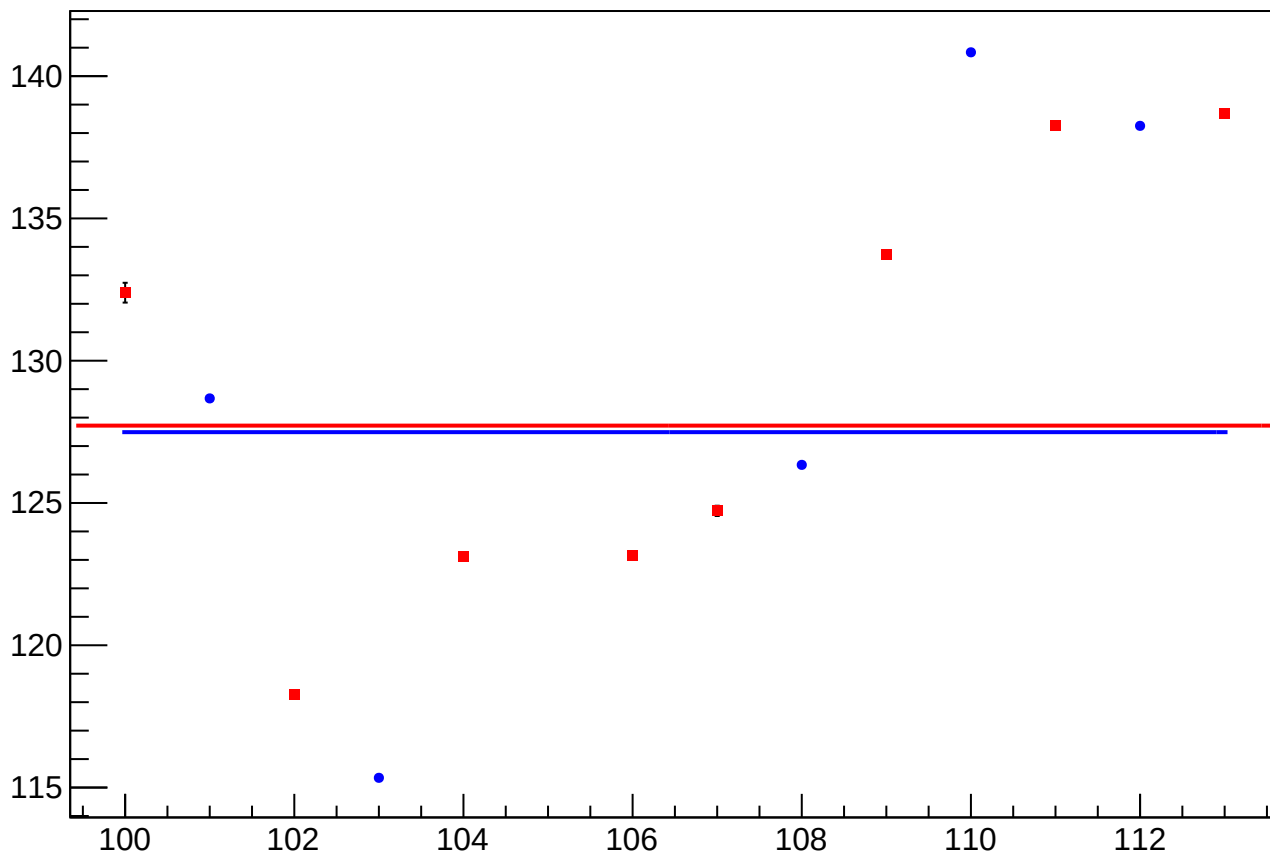
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 20.567 $\pm$ -53.419  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 127.489 $\pm$ 0.057  $\chi^2$ /NDF: 26351.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.719 $\pm$ 0.051  $\chi^2$ /NDF: 24234.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

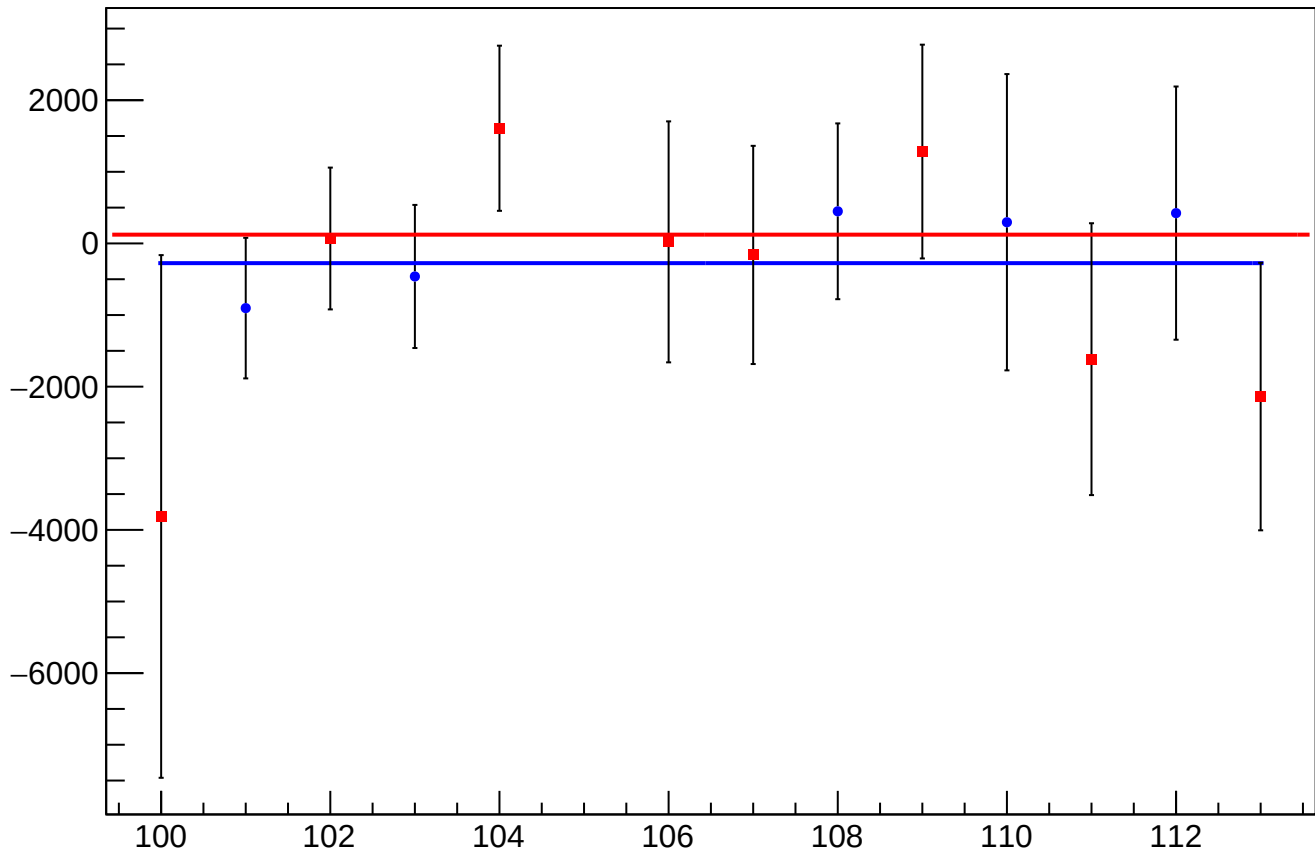
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 127.617 $\pm$ 0.038  $\chi^2$ /NDF: 50594.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_26\_48\_dd\_cor\_correction\_mean vs Slug



Right In: -275.383+/-554.087  $\chi^2$ /NDF: 1.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 122.473+/-523.792  $\chi^2$ /NDF: 5.8/7

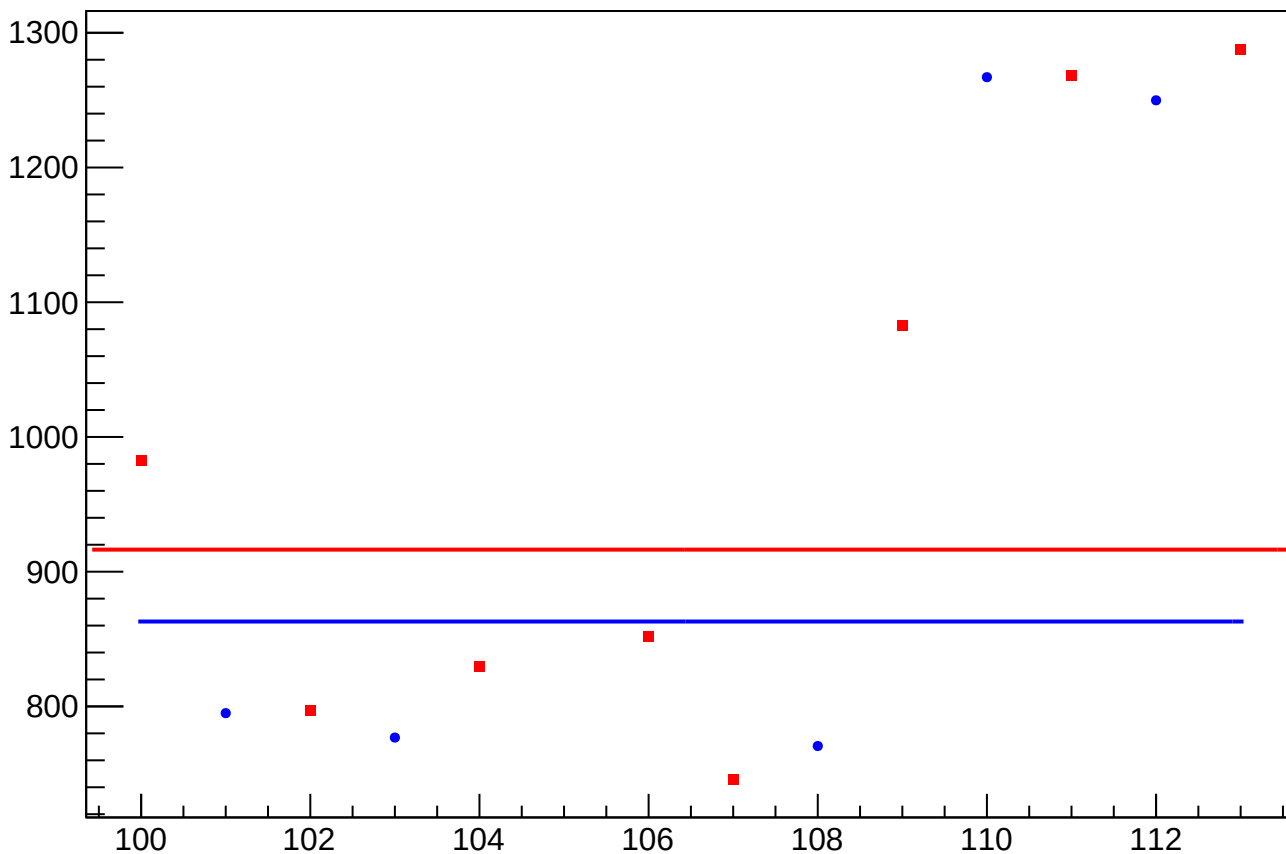
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -65.282+/-380.636  $\chi^2$ /NDF: 7.1/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_cor\_correction\_rms vs Slug



Right In: 863.013+/-0.392  $\chi^2/\text{NDF}$ : 207885.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 916.379+/-0.370  $\chi^2/\text{NDF}$ : 241688.9/7

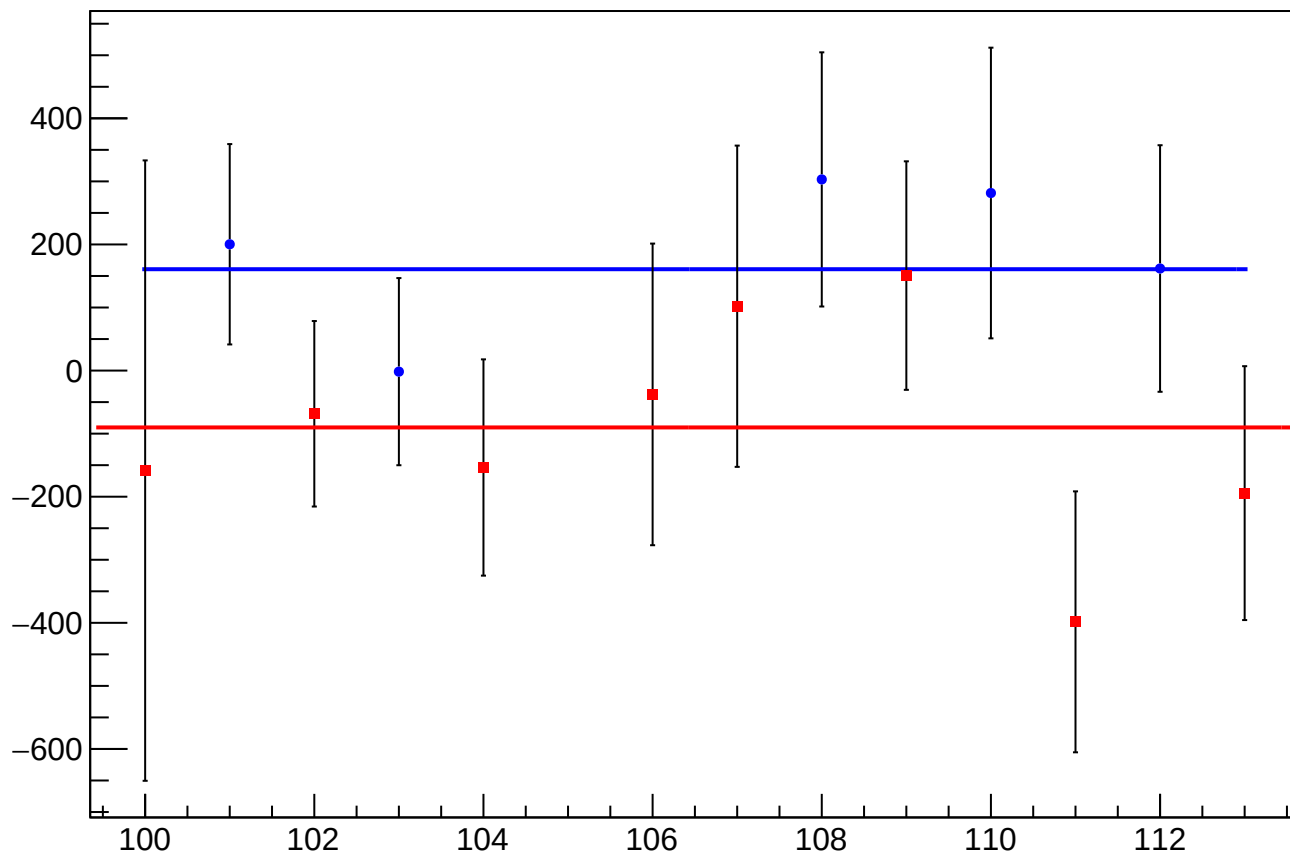
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 891.195+/-0.269  $\chi^2/\text{NDF}$ : 459371.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 160.738 $\pm$ 80.411  $\chi^2$ /NDF: 2.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -90.164 $\pm$ 71.469  $\chi^2$ /NDF: 5.0/7

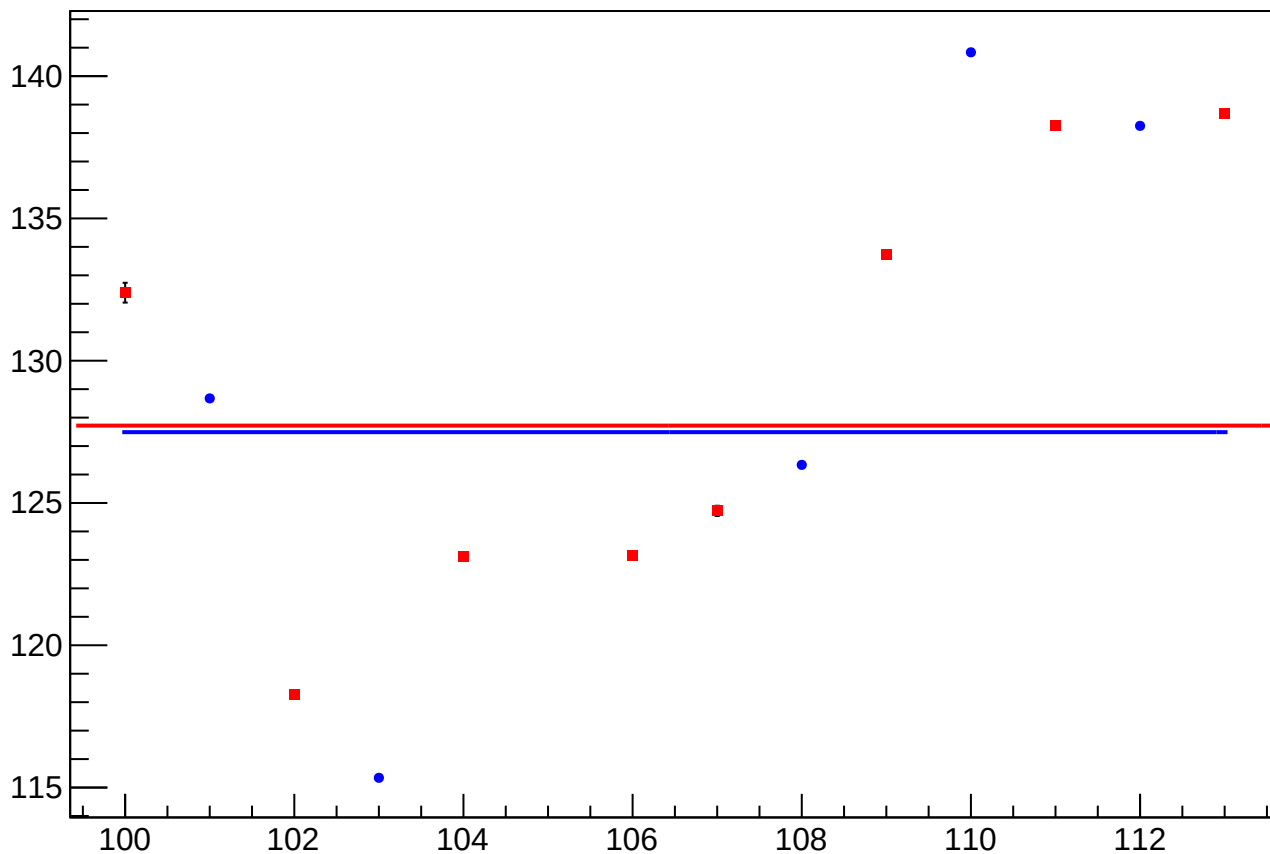
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 20.567 $\pm$ 53.419  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 127.489 $\pm$ 0.057  $\chi^2$ /NDF: 26351.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.719 $\pm$ 0.051  $\chi^2$ /NDF: 24234.3/7

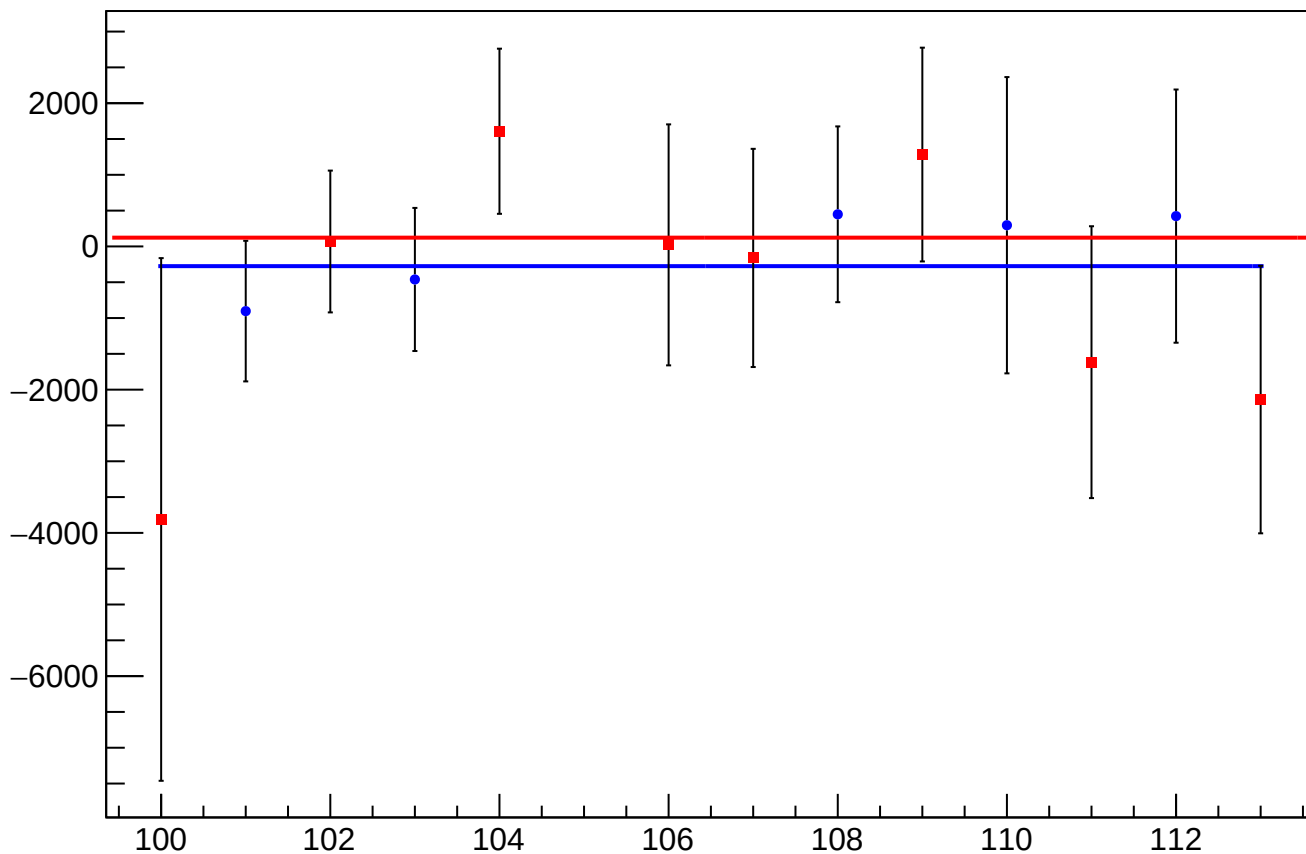
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 127.617 $\pm$ 0.038  $\chi^2$ /NDF: 50594.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -275.383+/-554.087  $\chi^2/\text{NDF}$ : 1.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 122.473+/-523.792  $\chi^2/\text{NDF}$ : 5.8/7

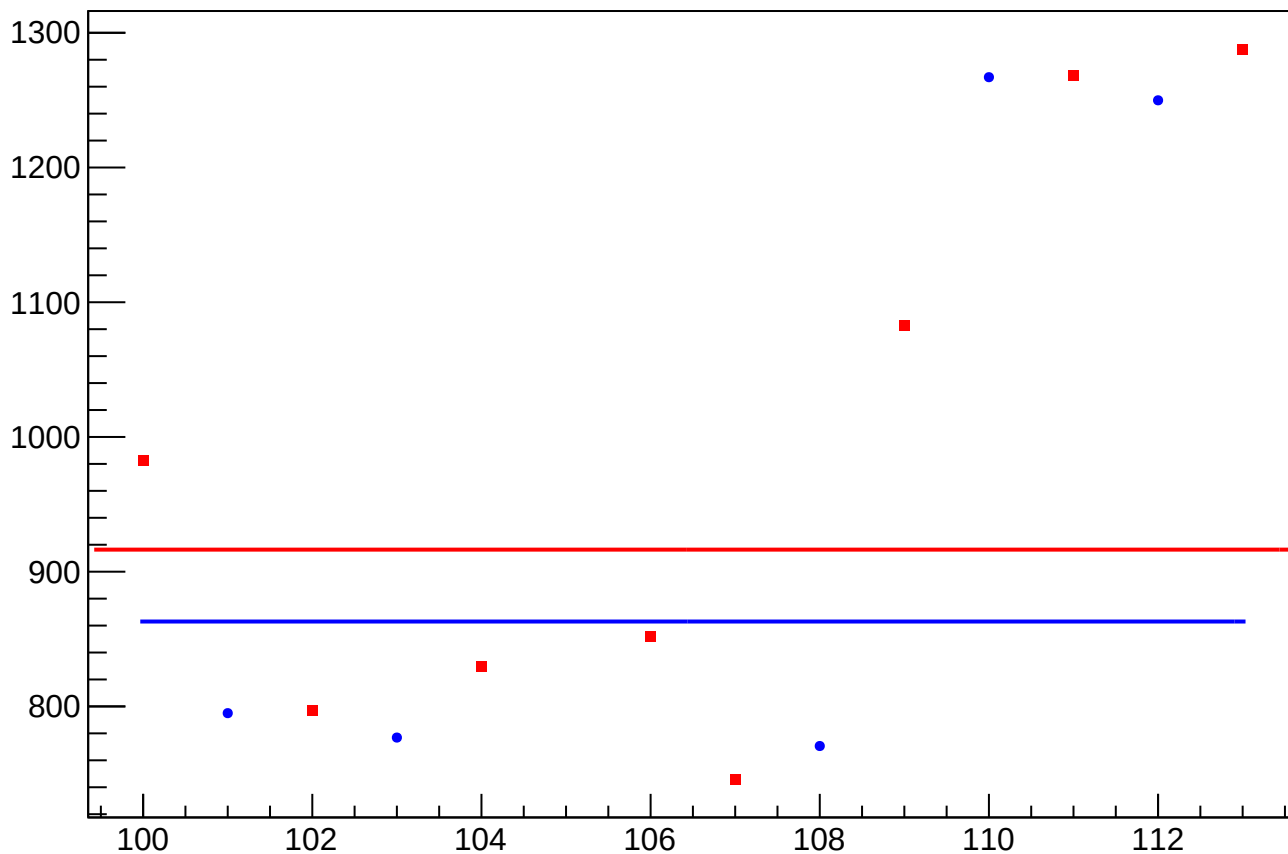
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -65.282+/-380.636  $\chi^2/\text{NDF}$ : 7.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 863.013+/-0.392  $\chi^2/\text{NDF}$ : 207885.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 916.379+/-0.370  $\chi^2/\text{NDF}$ : 241688.9/7

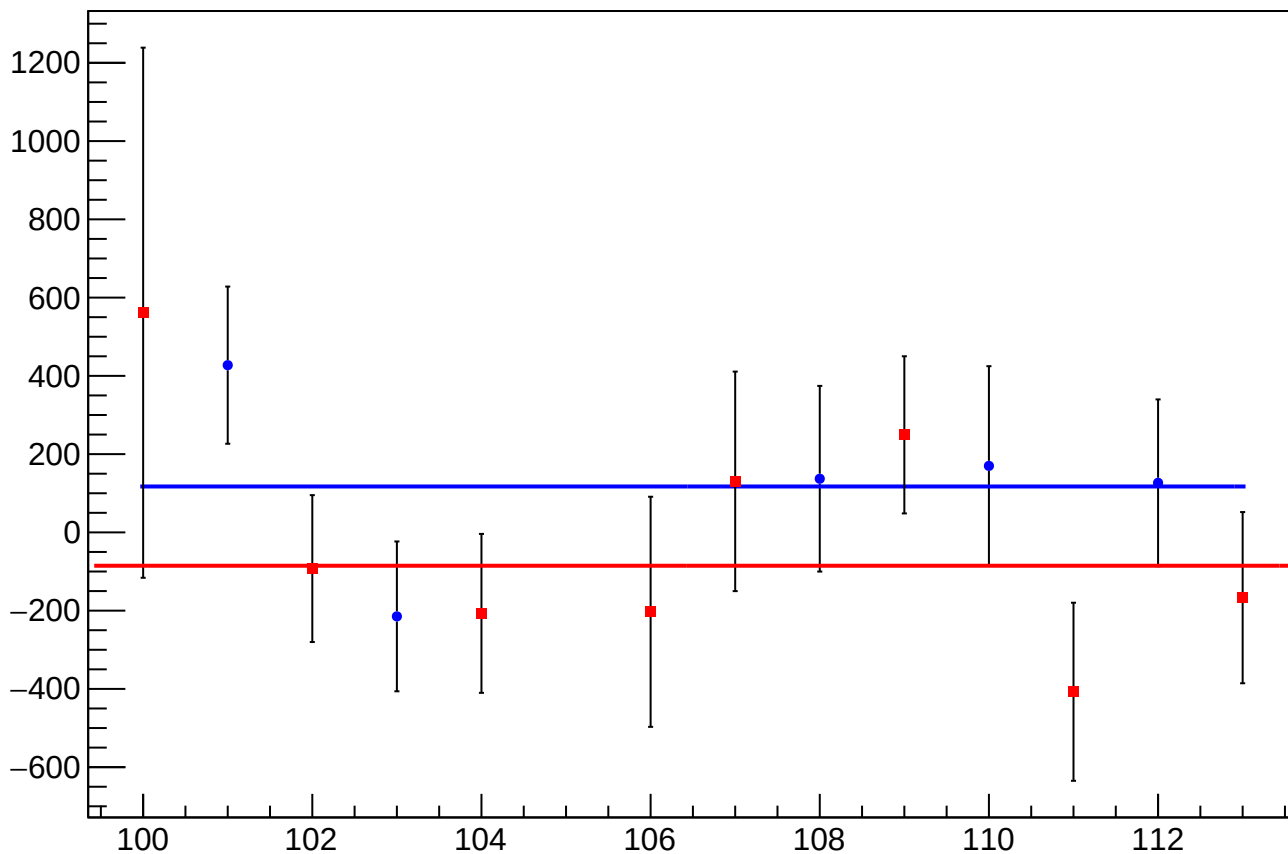
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 891.195+/-0.269  $\chi^2/\text{NDF}$ : 459371.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 117.314 $\pm$ 96.563  $\chi^2$ /NDF: 5.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -85.234 $\pm$ 83.309  $\chi^2$ /NDF: 6.9/7

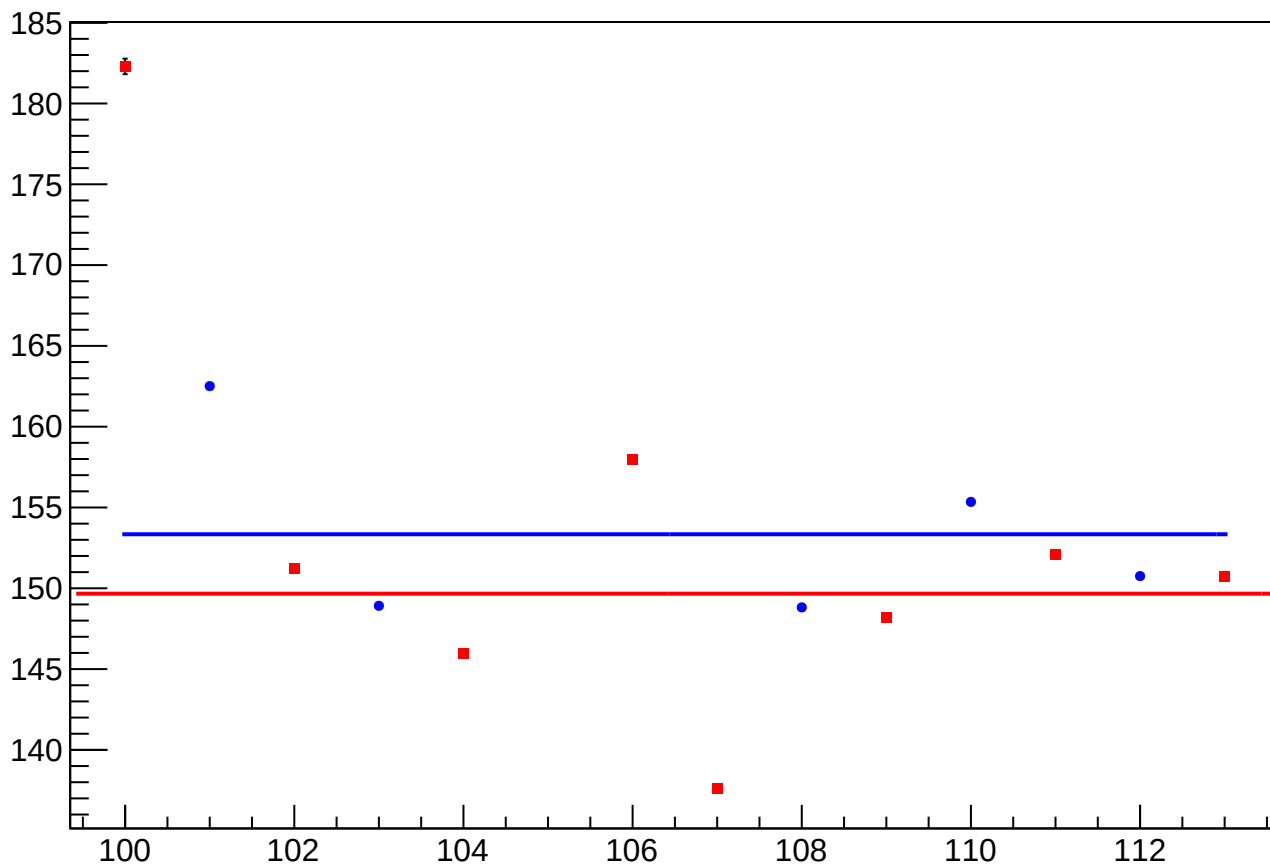
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.196 $\pm$ 63.078  $\chi^2$ /NDF: 14.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 153.343 $\pm$ 0.068  $\chi^2$ /NDF: 6383.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 149.666 $\pm$ 0.059  $\chi^2$ /NDF: 11133.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

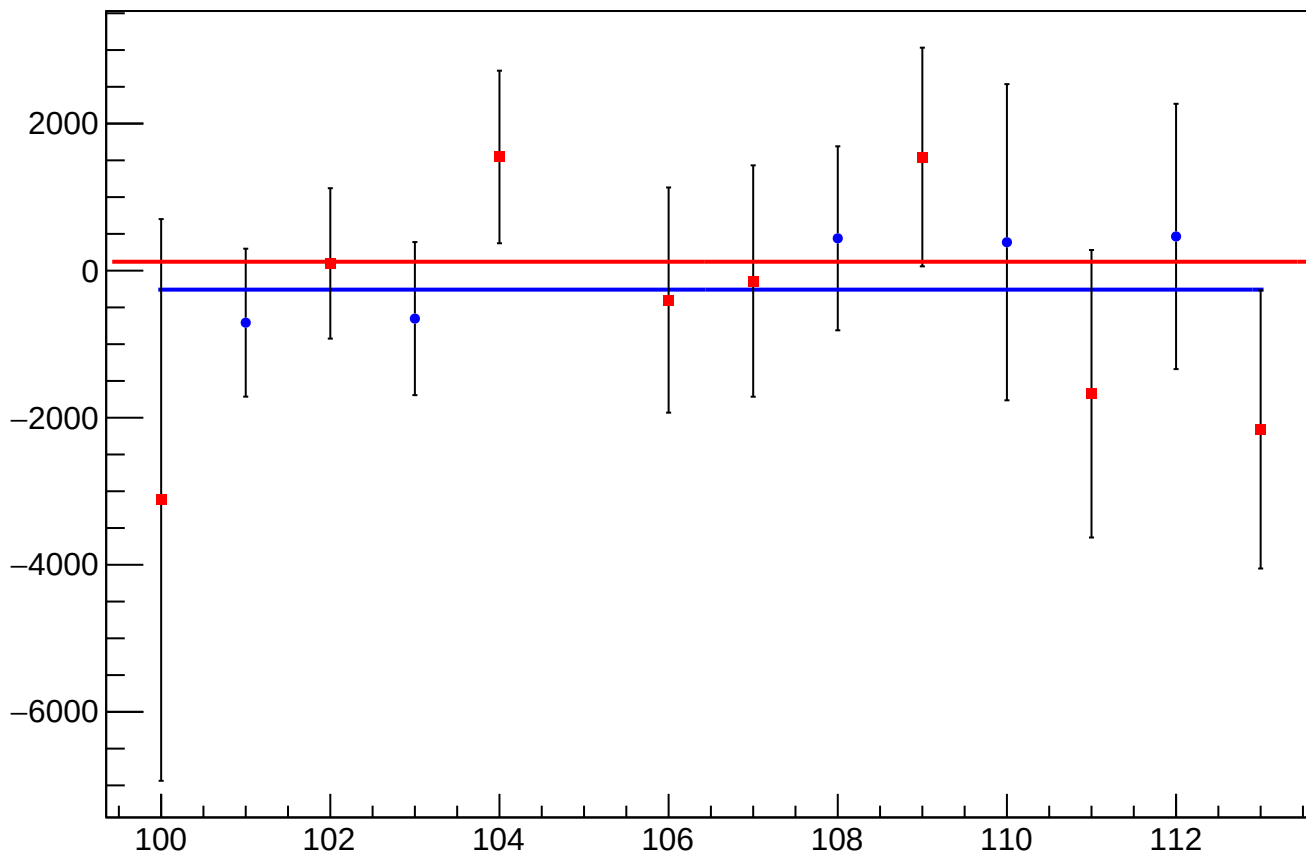
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 151.235 $\pm$ 0.045  $\chi^2$ /NDF: 19178.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_26\_48\_dd\_dit\_correction\_mean vs Slug



Right In: -258.204+/-570.412  $\chi^2/\text{NDF}$ : 0.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 121.170+/-528.885  $\chi^2/\text{NDF}$ : 5.6/7

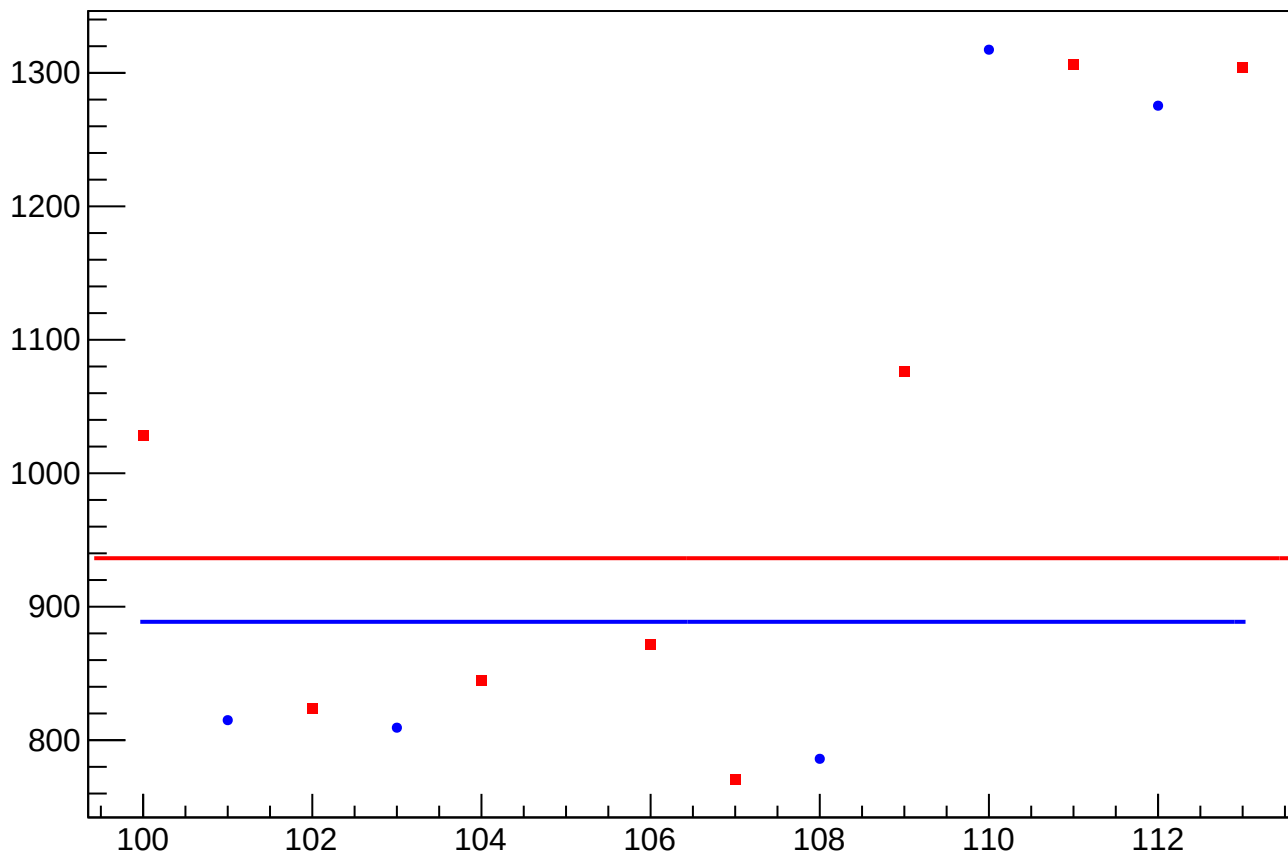
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -54.206+/-387.829  $\chi^2/\text{NDF}$ : 6.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_dit\_correction\_rms vs Slug



Right In: 888.684 $\pm$ 0.403  $\chi^2$ /NDF: 207274.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 936.335 $\pm$ 0.374  $\chi^2$ /NDF: 228326.7/7

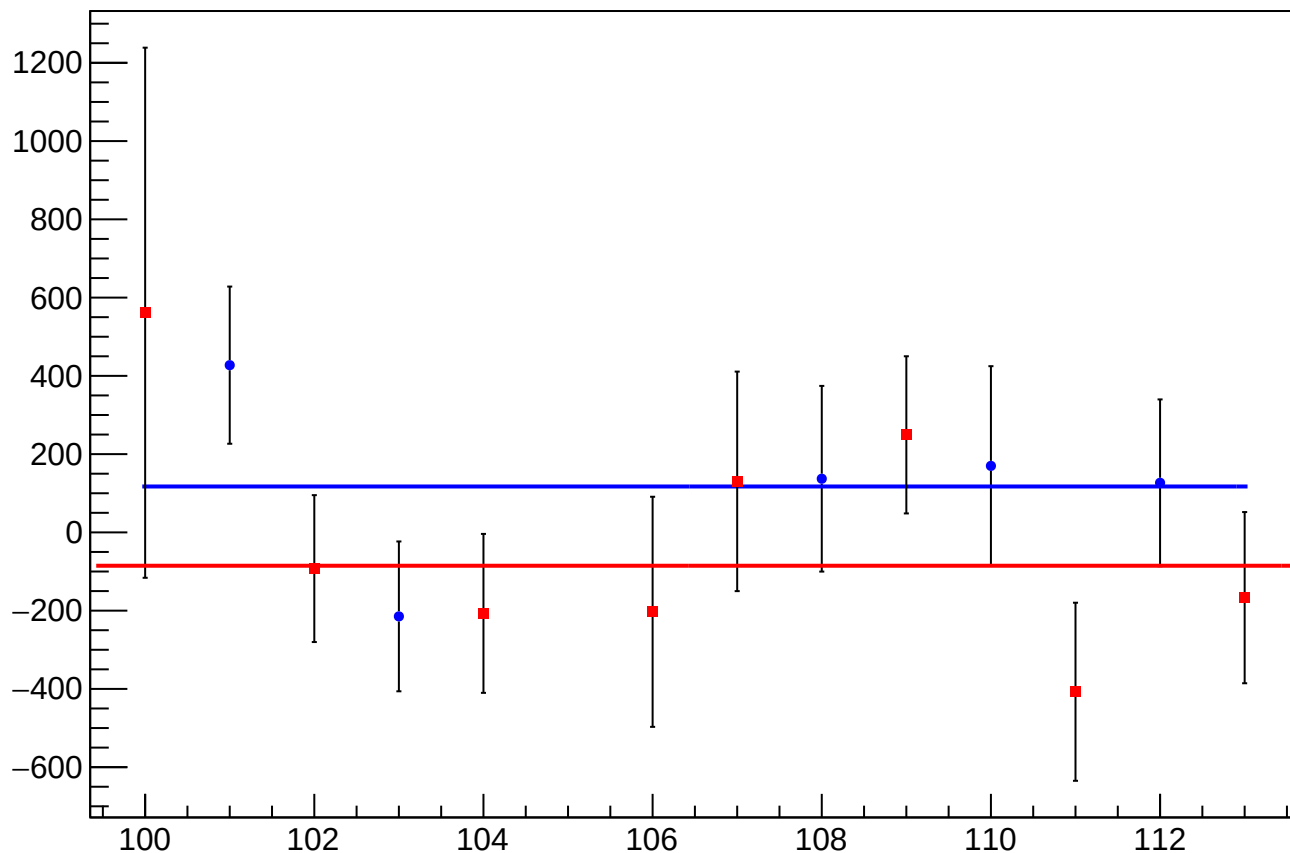
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 914.307 $\pm$ 0.274  $\chi^2$ /NDF: 443106.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 117.309+/-96.562  $\chi^2/\text{NDF}$ : 5.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -85.233+/-83.308  $\chi^2/\text{NDF}$ : 6.9/7

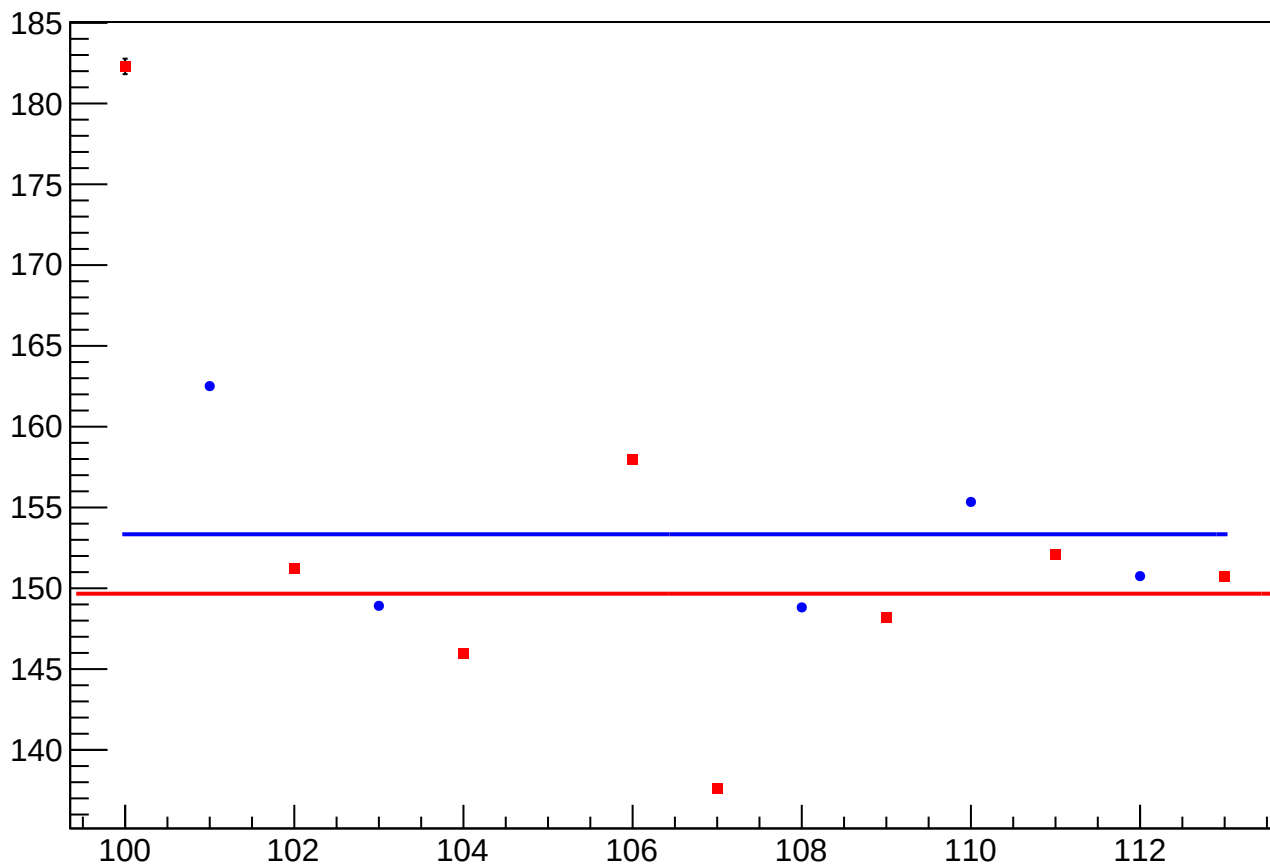
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.194+/-63.078  $\chi^2/\text{NDF}$ : 14.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 153.343 $\pm$ 0.068  $\chi^2$ /NDF: 6383.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 149.666 $\pm$ 0.059  $\chi^2$ /NDF: 11132.5/7

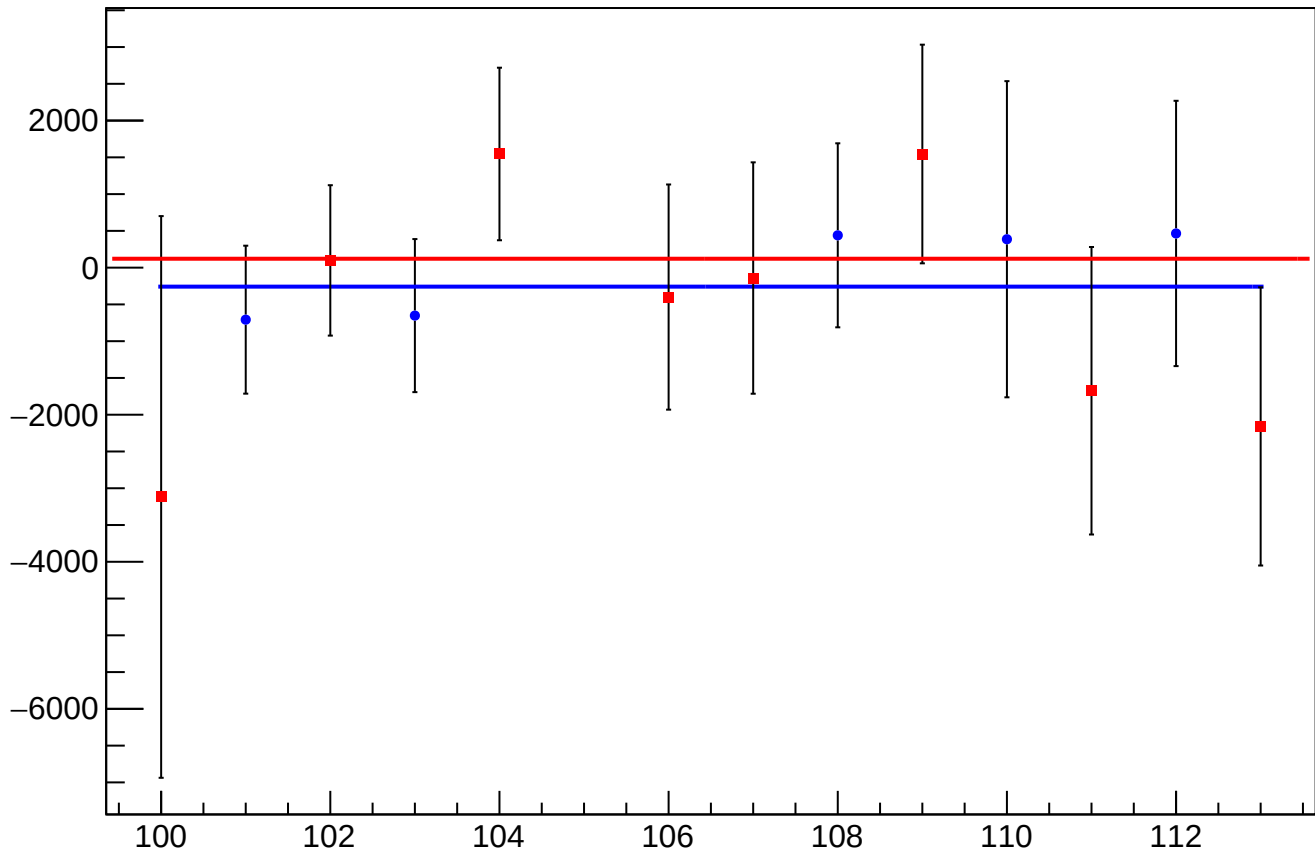
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 151.235 $\pm$ 0.045  $\chi^2$ /NDF: 19178.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -258.208+/-570.410  $\chi^2/\text{NDF}$ : 0.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 121.171+/-528.884  $\chi^2/\text{NDF}$ : 5.6/7

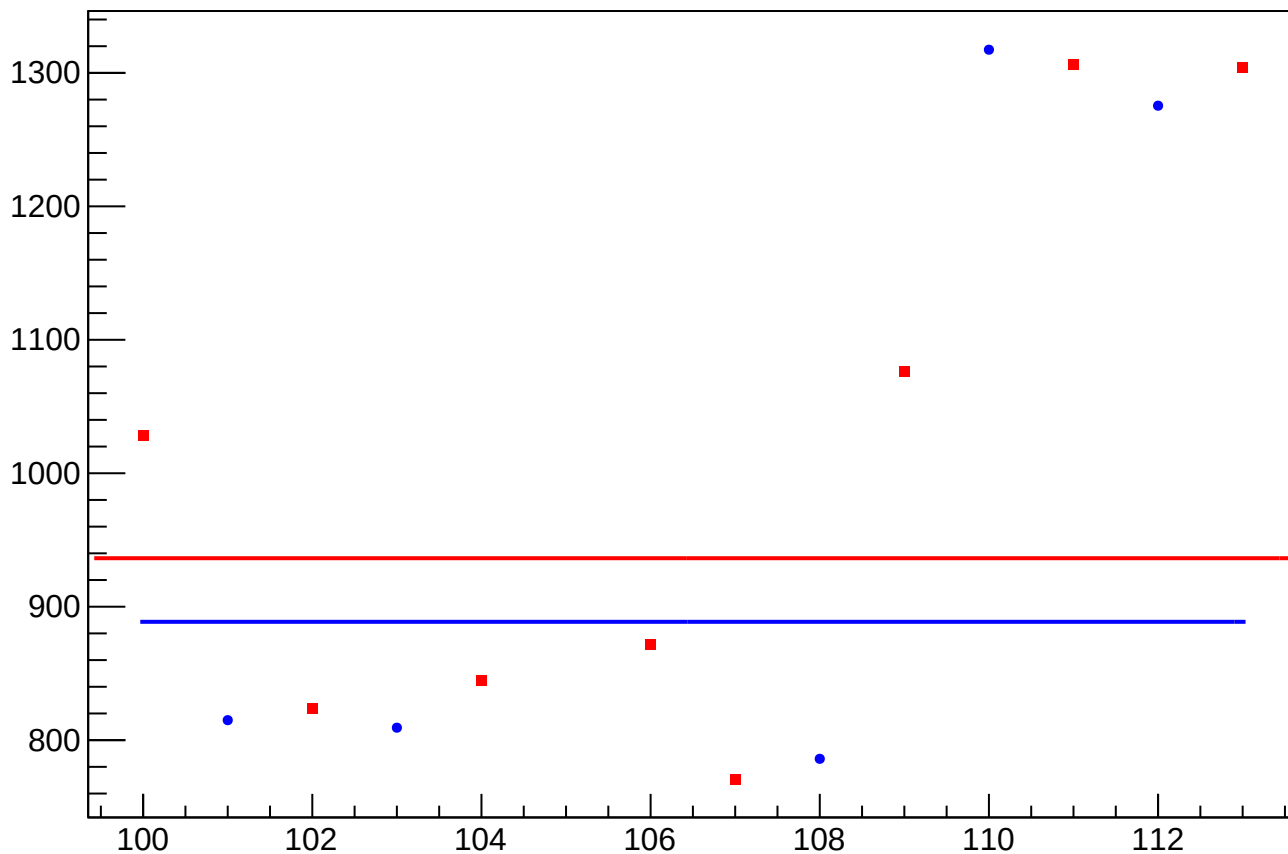
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -54.208+/-387.828  $\chi^2/\text{NDF}$ : 6.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 888.682 $\pm$ 0.403  $\chi^2$ /NDF: 207272.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 936.333 $\pm$ 0.374  $\chi^2$ /NDF: 228325.1/7

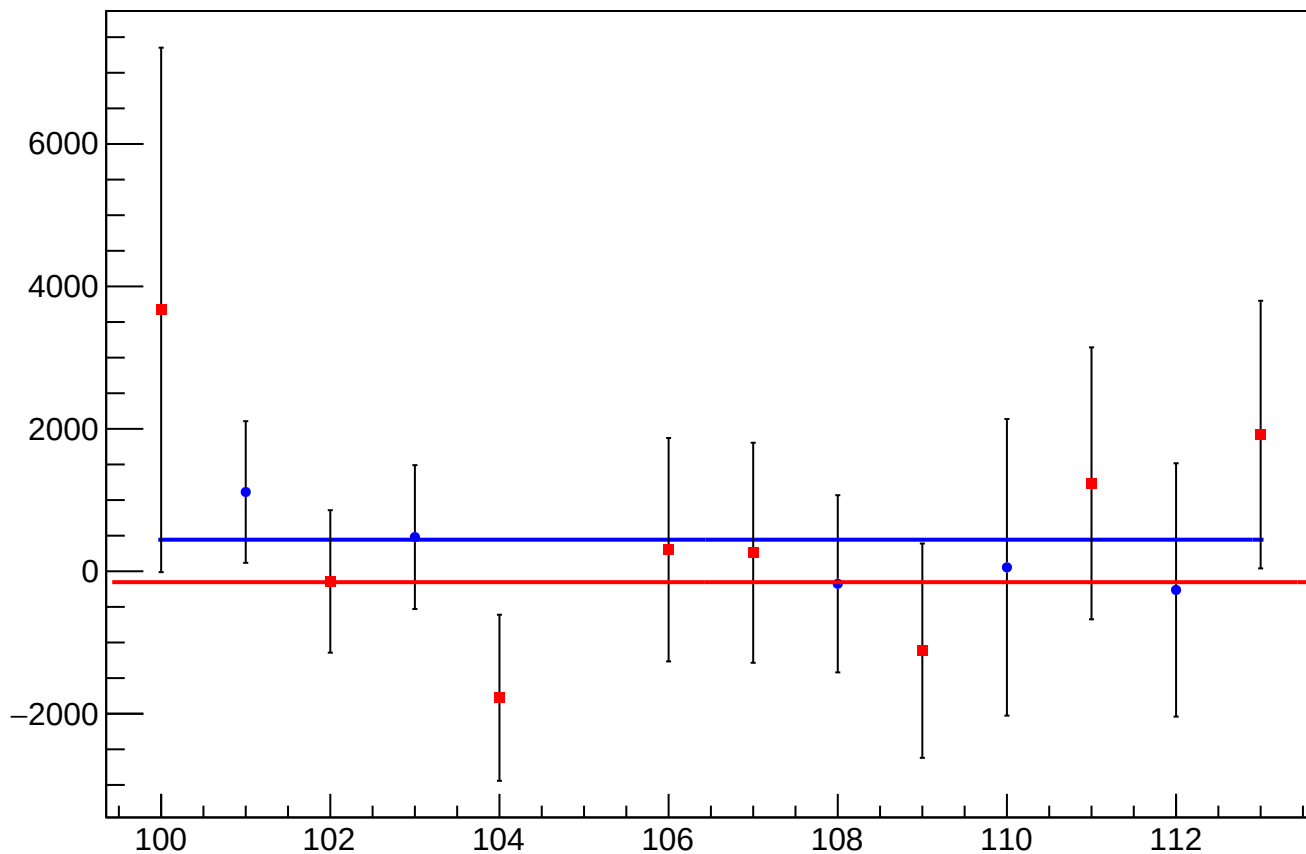
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 914.305 $\pm$ 0.274  $\chi^2$ /NDF: 443102.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 443.631 $\pm$ 560.431  $\chi^2$ /NDF: 0.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -152.962 $\pm$ 524.644  $\chi^2$ /NDF: 5.3/7

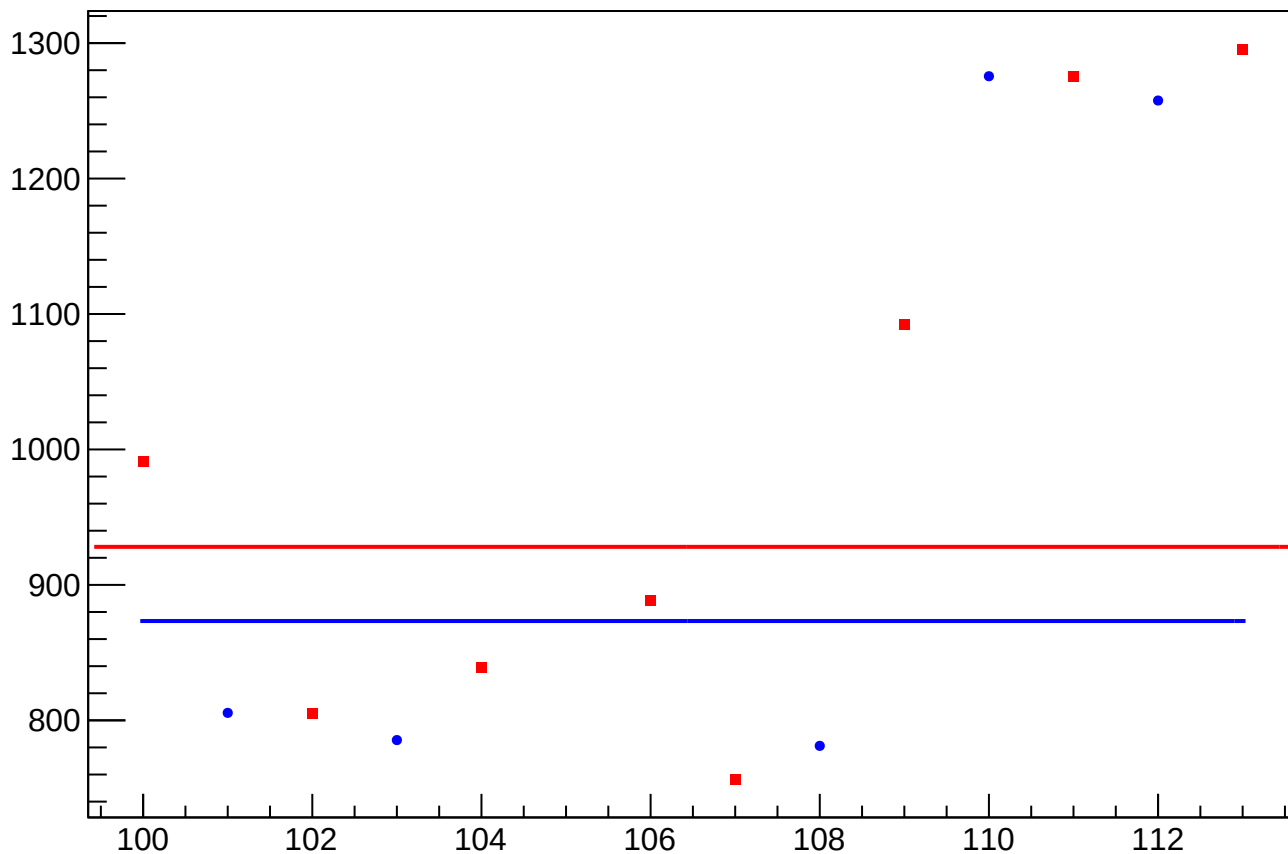
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 125.679 $\pm$ 383.006  $\chi^2$ /NDF: 6.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 873.328+/-0.396  $\chi^2/\text{NDF}$ : 203389.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 928.100+/-0.371  $\chi^2/\text{NDF}$ : 234912.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

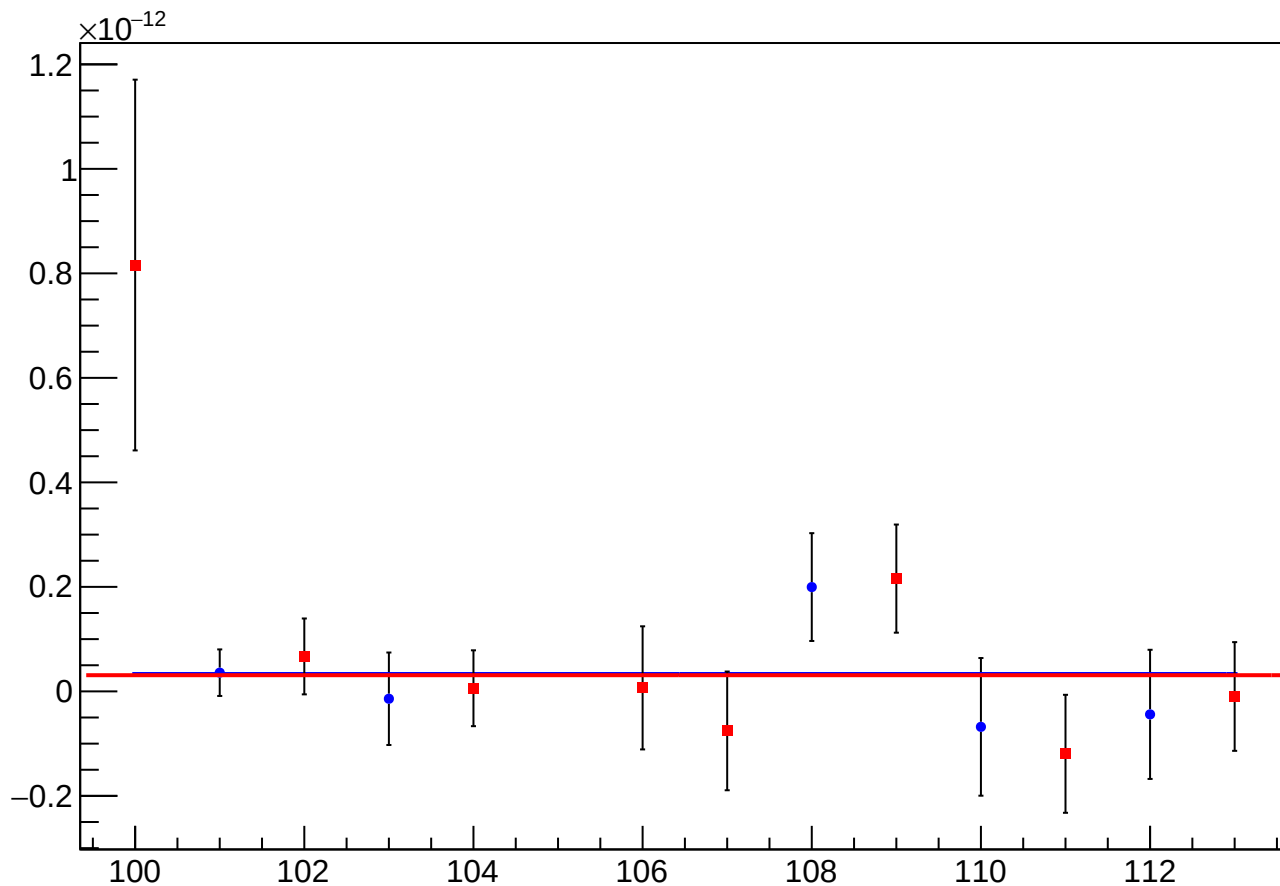
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 902.518+/-0.271  $\chi^2/\text{NDF}$ : 448482.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_26\_48\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.3/7

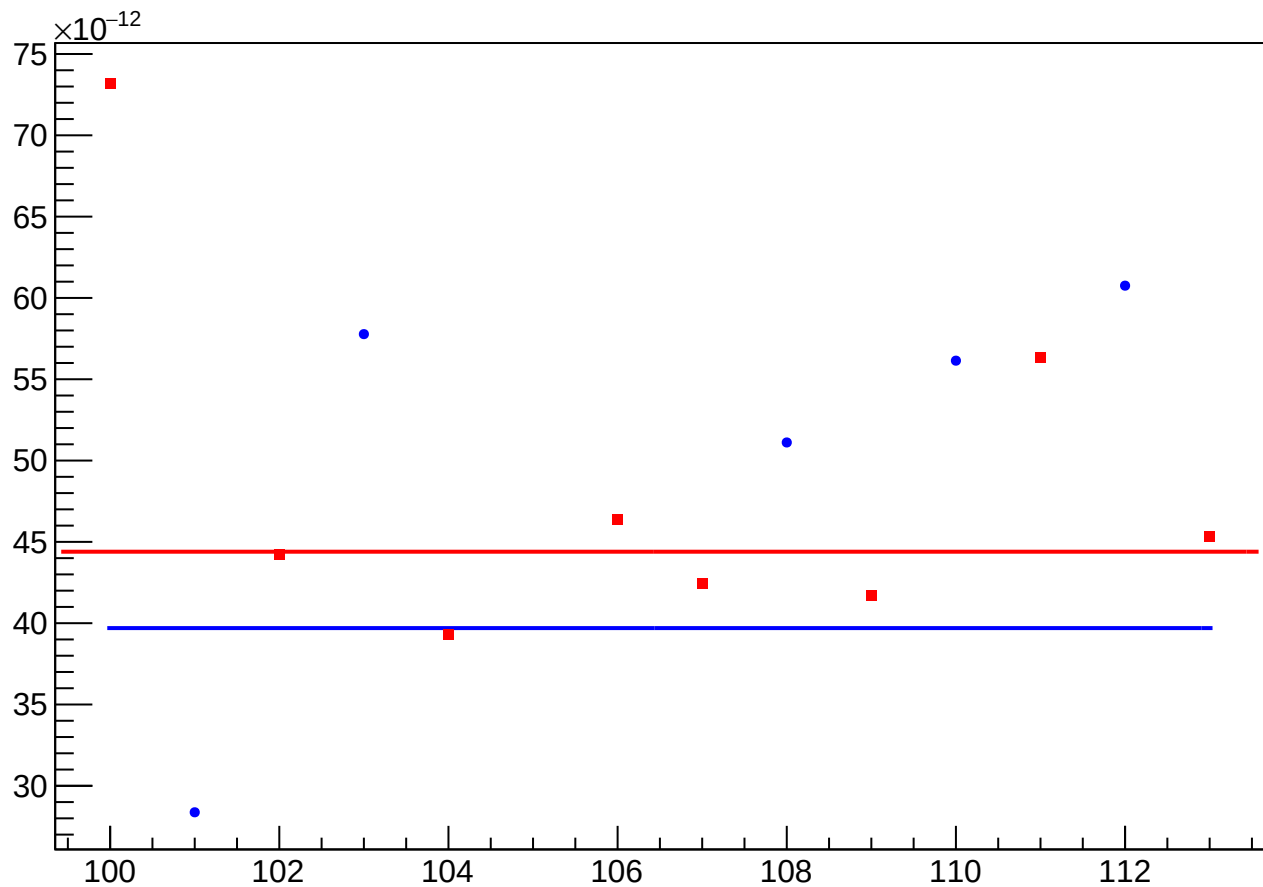
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 326463.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 48010.6/7

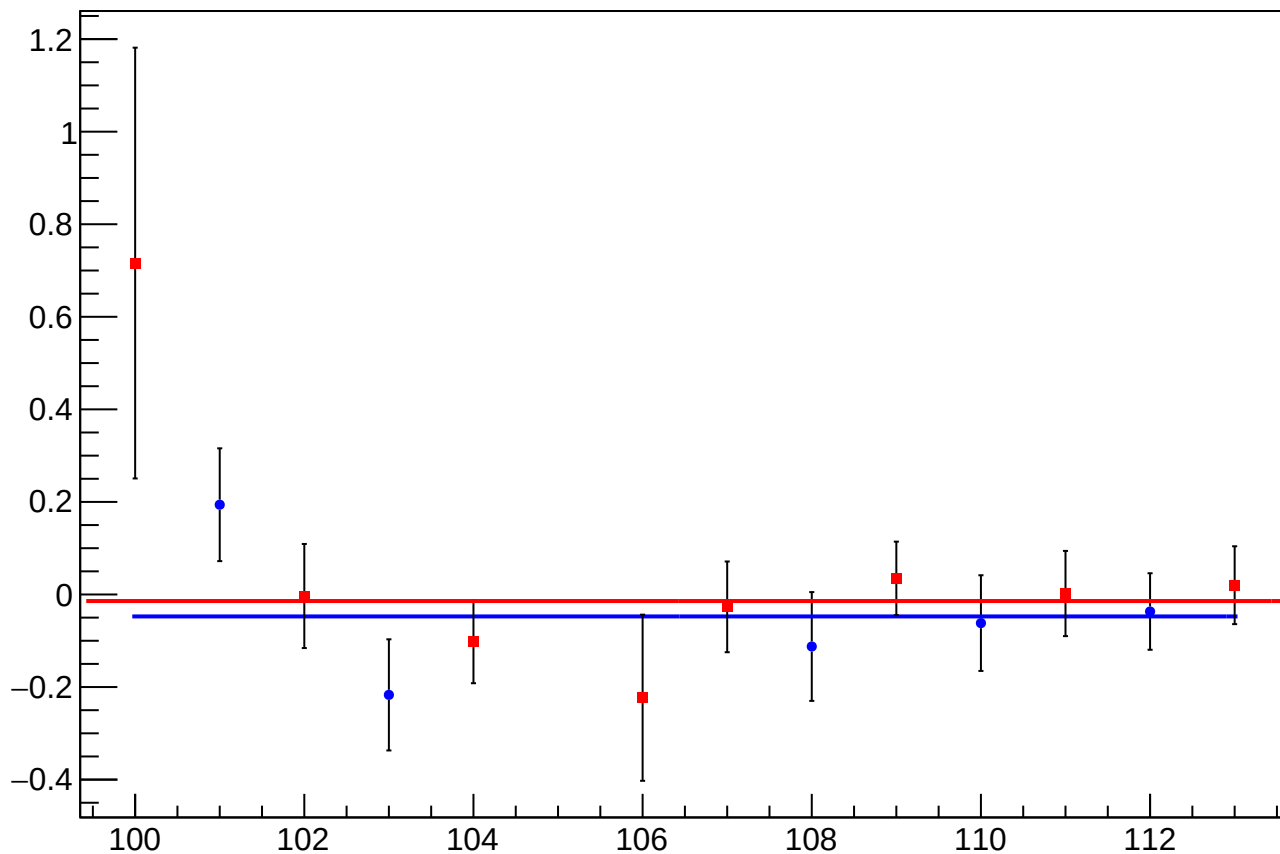
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 392659.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.047 $\pm$ 0.047  $\chi^2$ /NDF: 6.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.014 $\pm$ 0.036  $\chi^2$ /NDF: 5.4/7

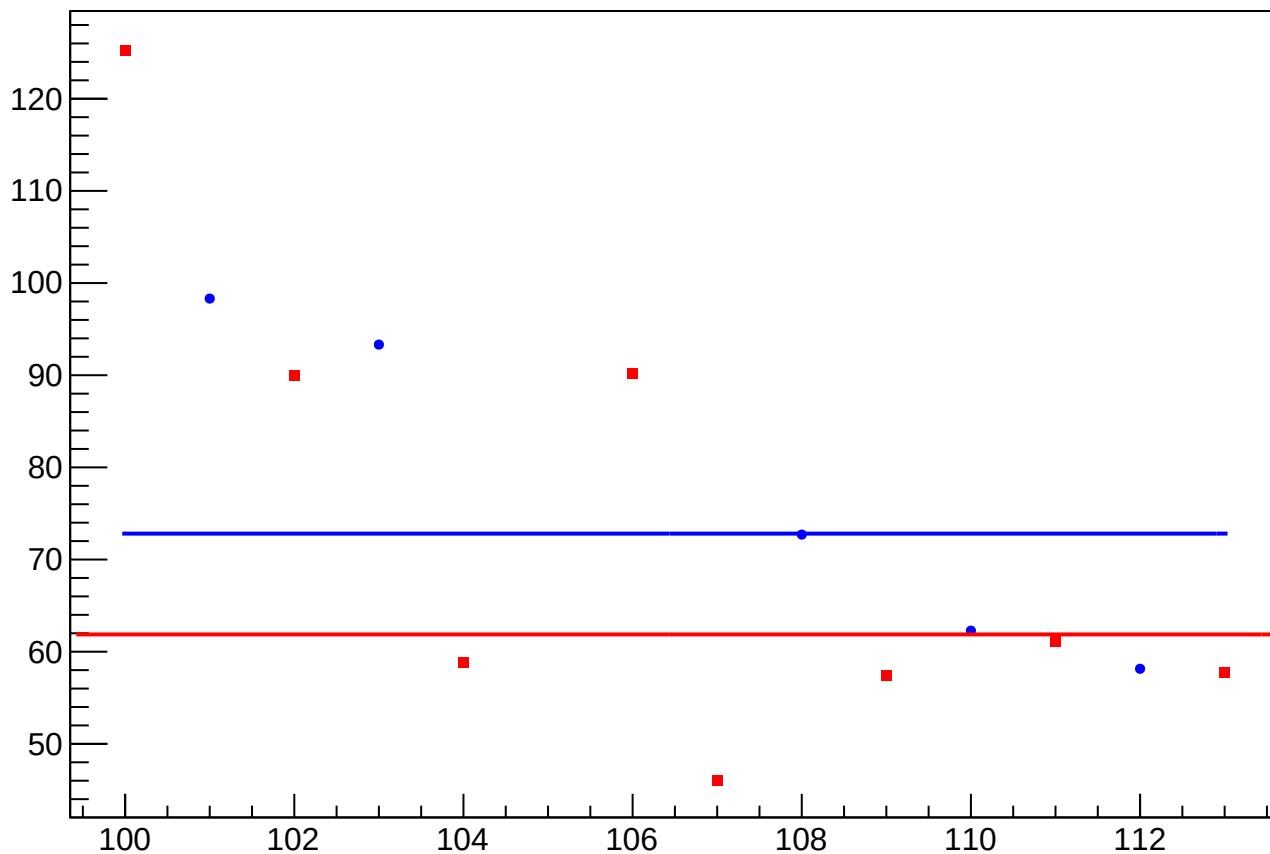
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.026 $\pm$ 0.029  $\chi^2$ /NDF: 11.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 72.814+/-0.033  $\chi^2/\text{NDF}$ : 229658.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 61.874+/-0.026  $\chi^2/\text{NDF}$ : 277285.9/7

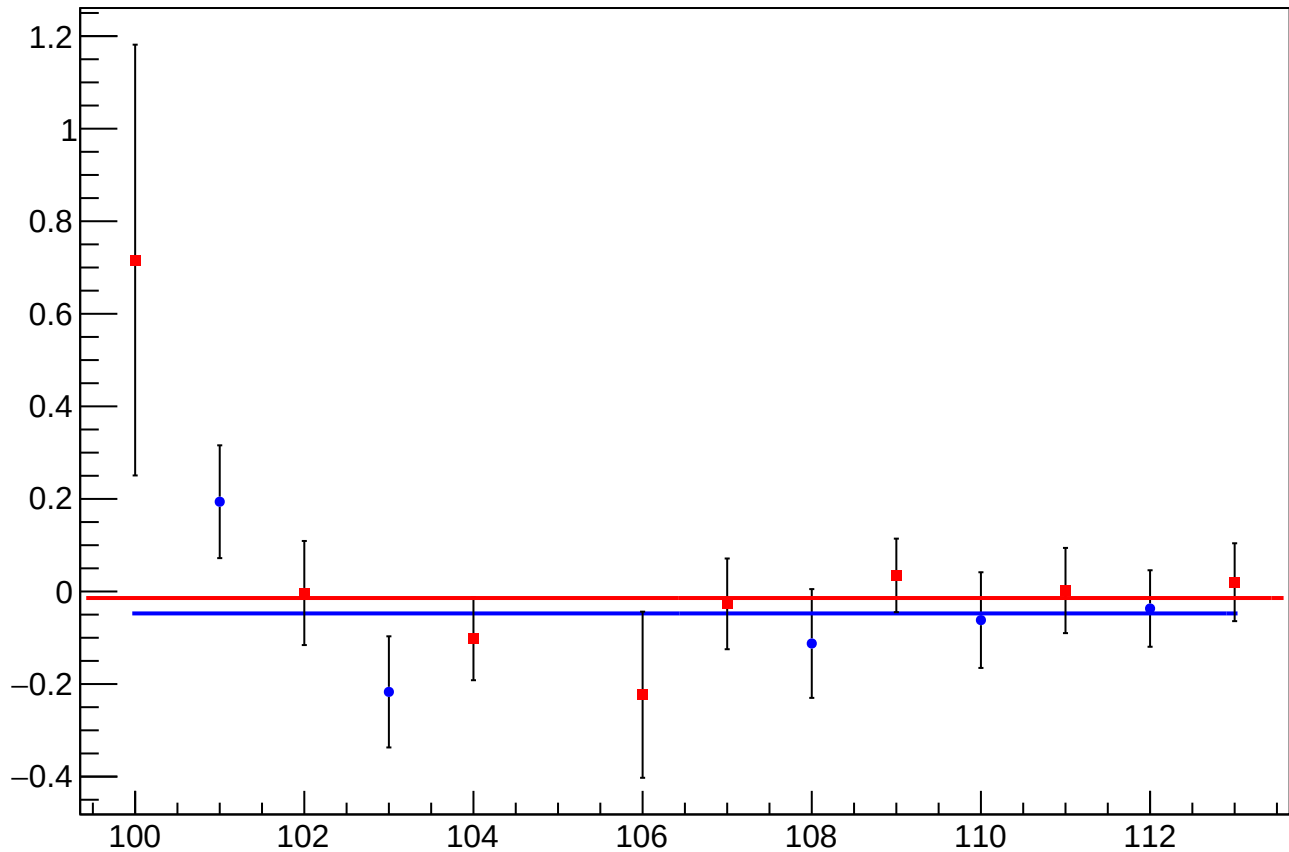
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.935+/-0.020  $\chi^2/\text{NDF}$ : 574530.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.047 $\pm$ 0.047  $\chi^2$ /NDF: 6.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.014 $\pm$ 0.036  $\chi^2$ /NDF: 5.4/7

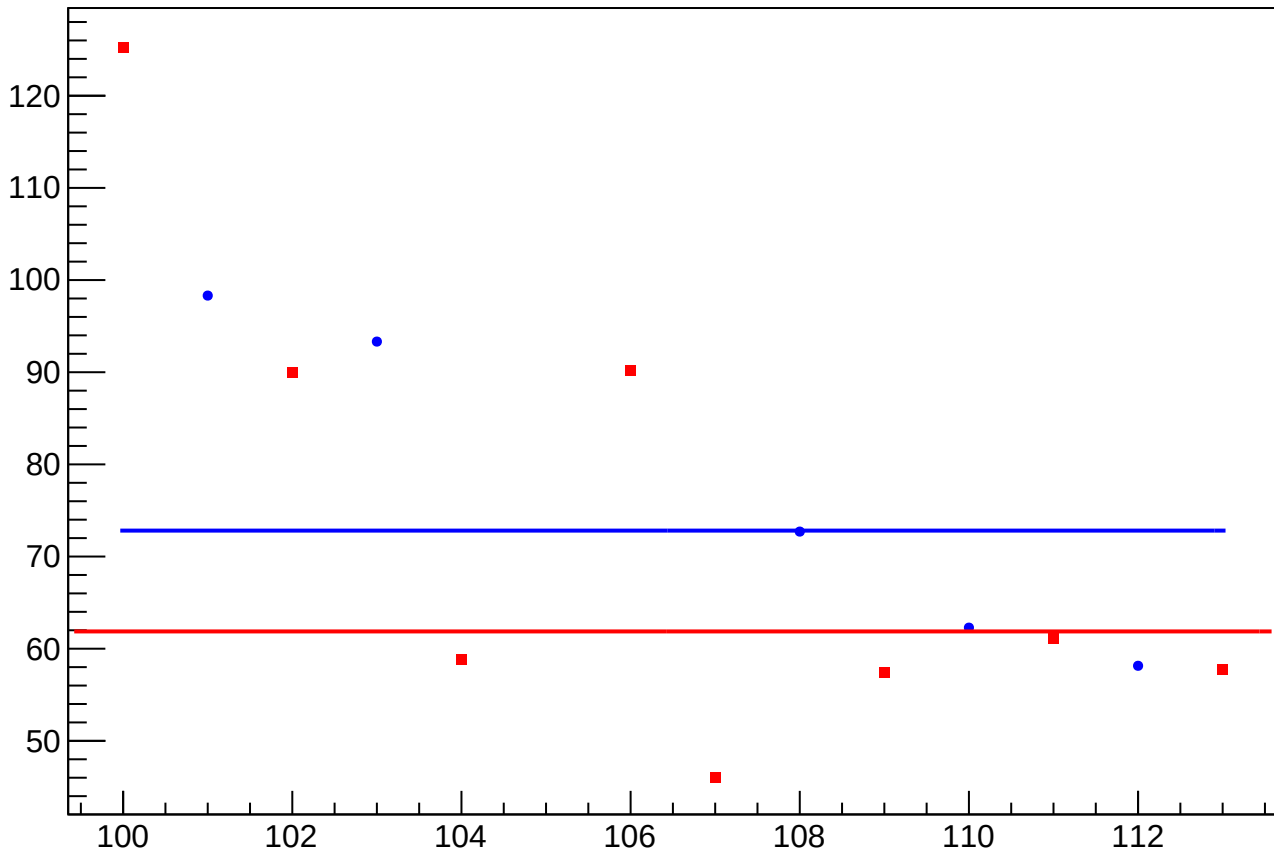
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.026 $\pm$ 0.029  $\chi^2$ /NDF: 11.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 72.814+/-0.033  $\chi^2/\text{NDF}$ : 229658.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 61.874+/-0.026  $\chi^2/\text{NDF}$ : 277285.9/7

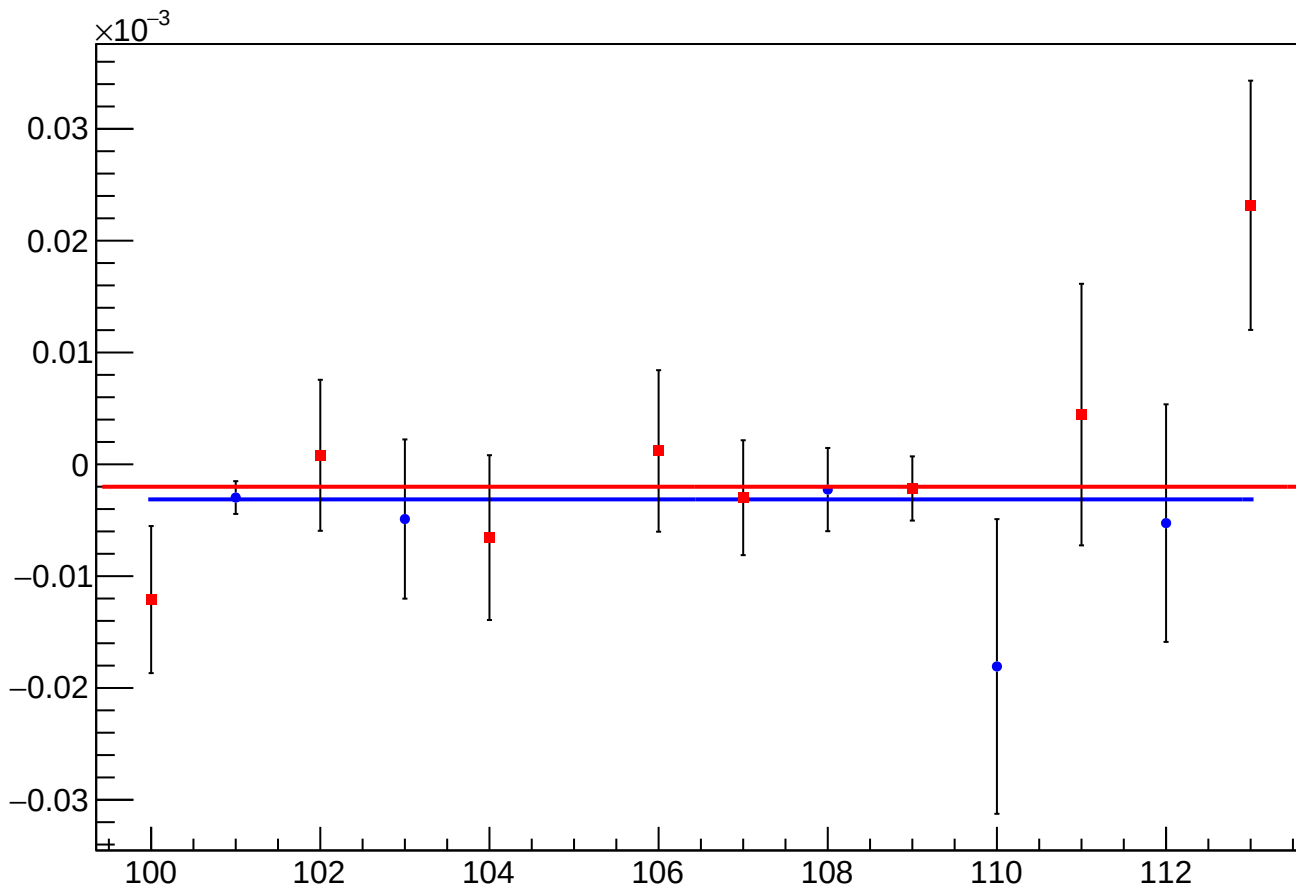
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.935+/-0.020  $\chi^2/\text{NDF}$ : 574530.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.5/7

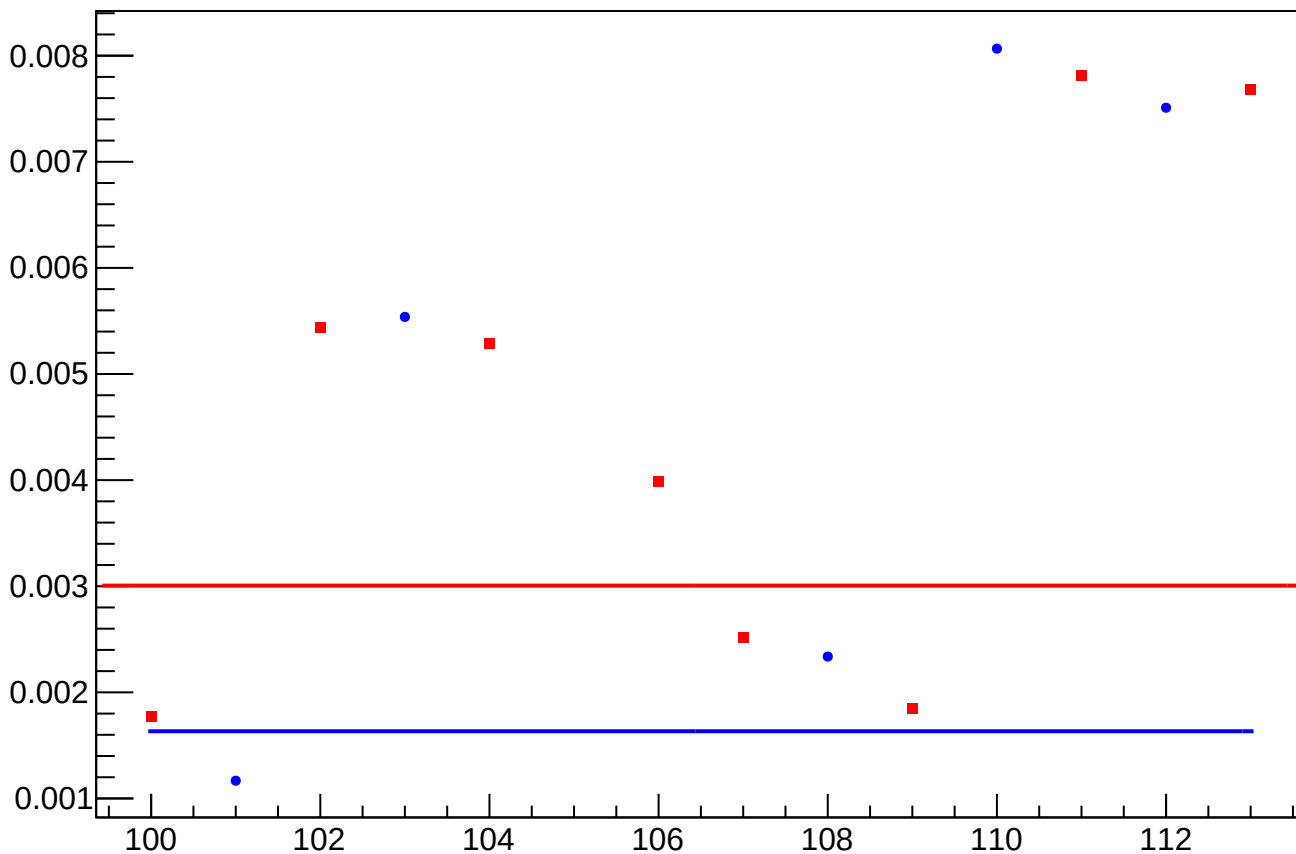
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 1964283.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 1589819.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

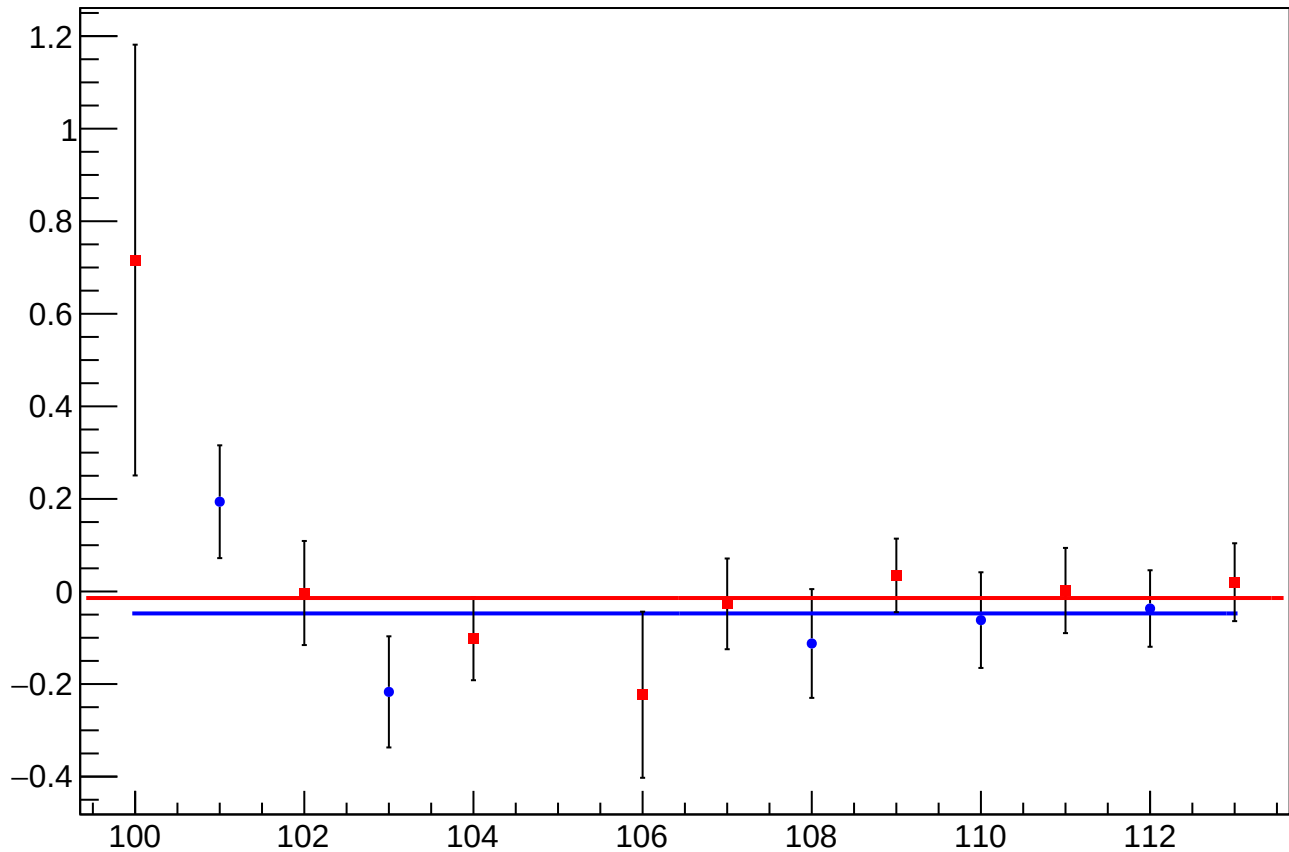
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 4222426.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.047 \pm 0.047$   $\chi^2/\text{NDF}$ : 6.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.014 \pm 0.036$   $\chi^2/\text{NDF}$ : 5.4/7

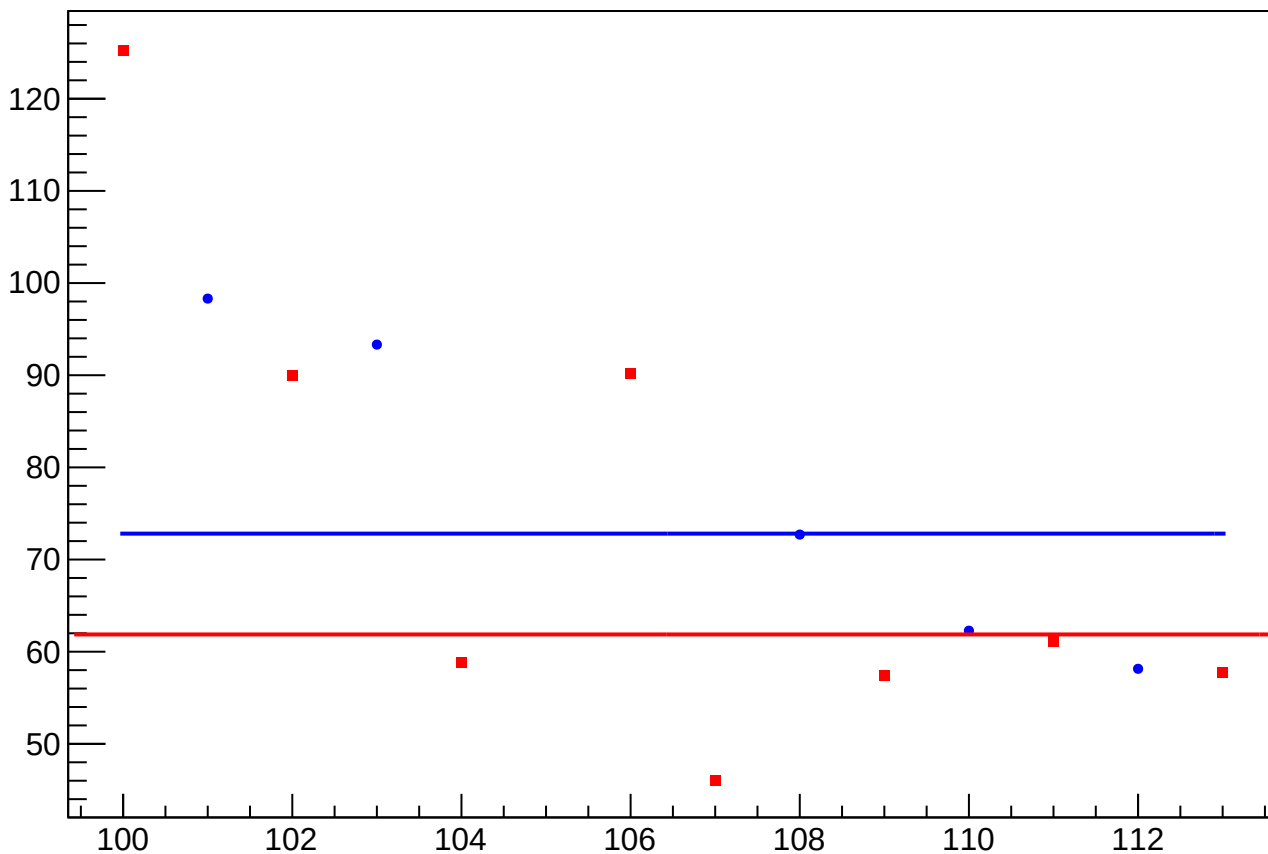
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.026 \pm 0.029$   $\chi^2/\text{NDF}$ : 11.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 72.812 $\pm$ 0.033  $\chi^2$ /NDF: 229691.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 61.873 $\pm$ 0.026  $\chi^2$ /NDF: 277290.8/7

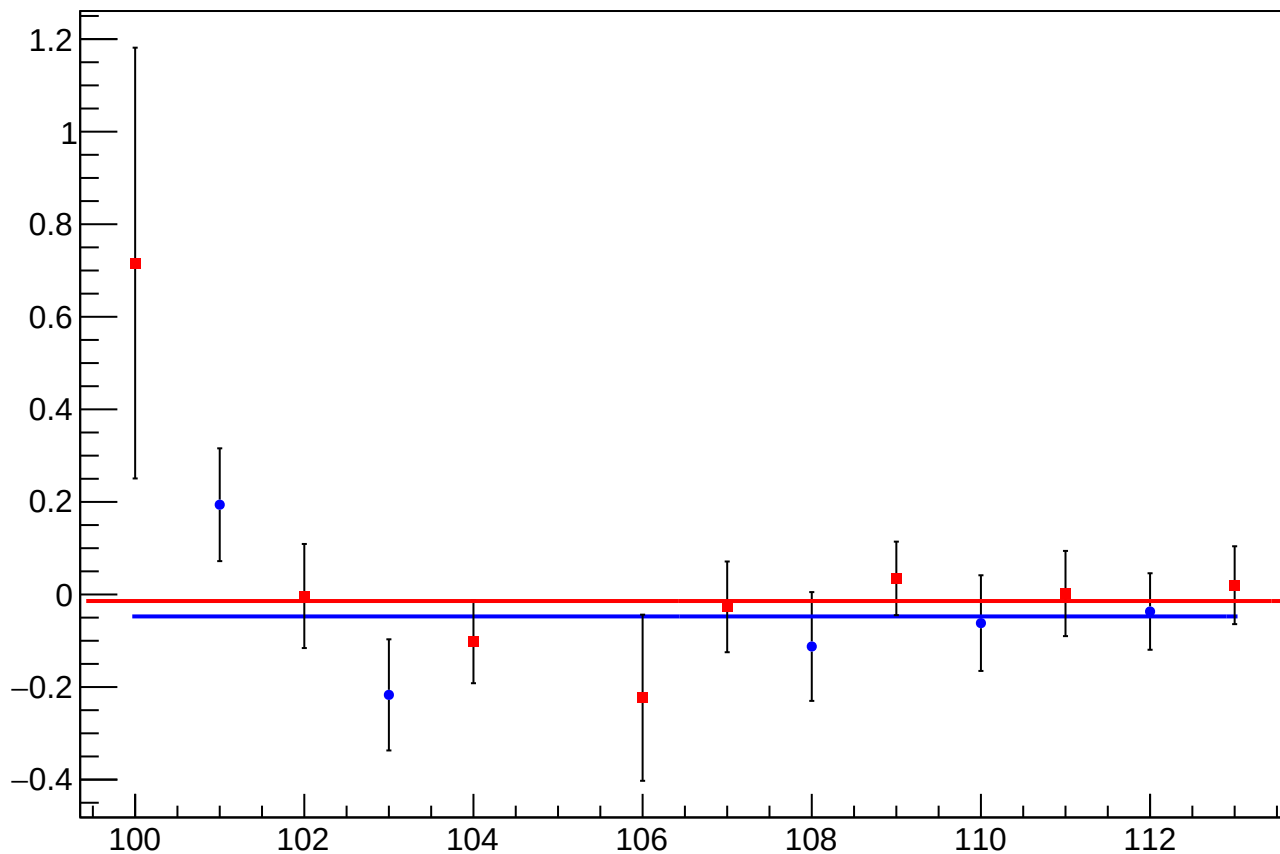
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 65.933 $\pm$ 0.020  $\chi^2$ /NDF: 574564.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.047 $\pm$ 0.047  $\chi^2$ /NDF: 6.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.014 $\pm$ 0.036  $\chi^2$ /NDF: 5.4/7

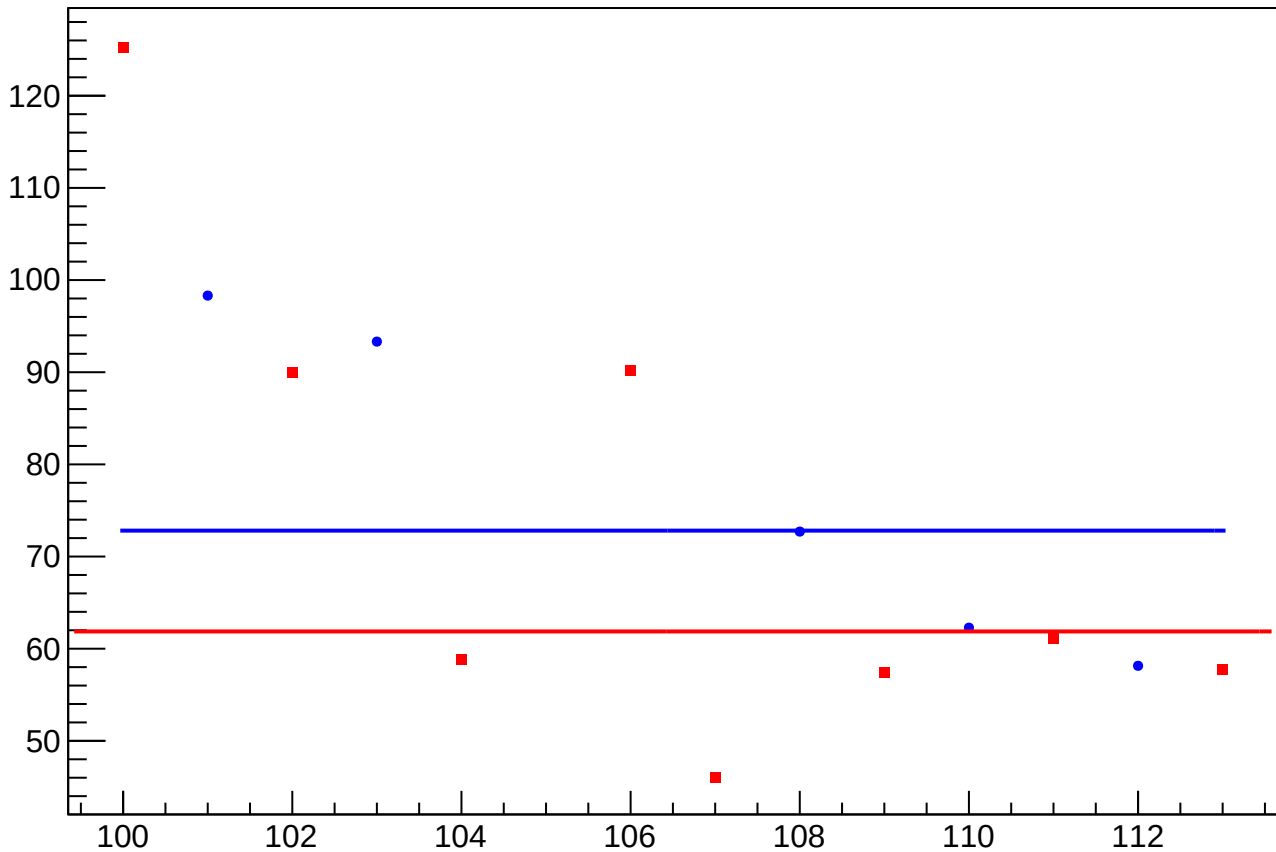
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.026 $\pm$ 0.029  $\chi^2$ /NDF: 11.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 72.812 $\pm$ 0.033  $\chi^2$ /NDF: 229691.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 61.873 $\pm$ 0.026  $\chi^2$ /NDF: 277290.8/7

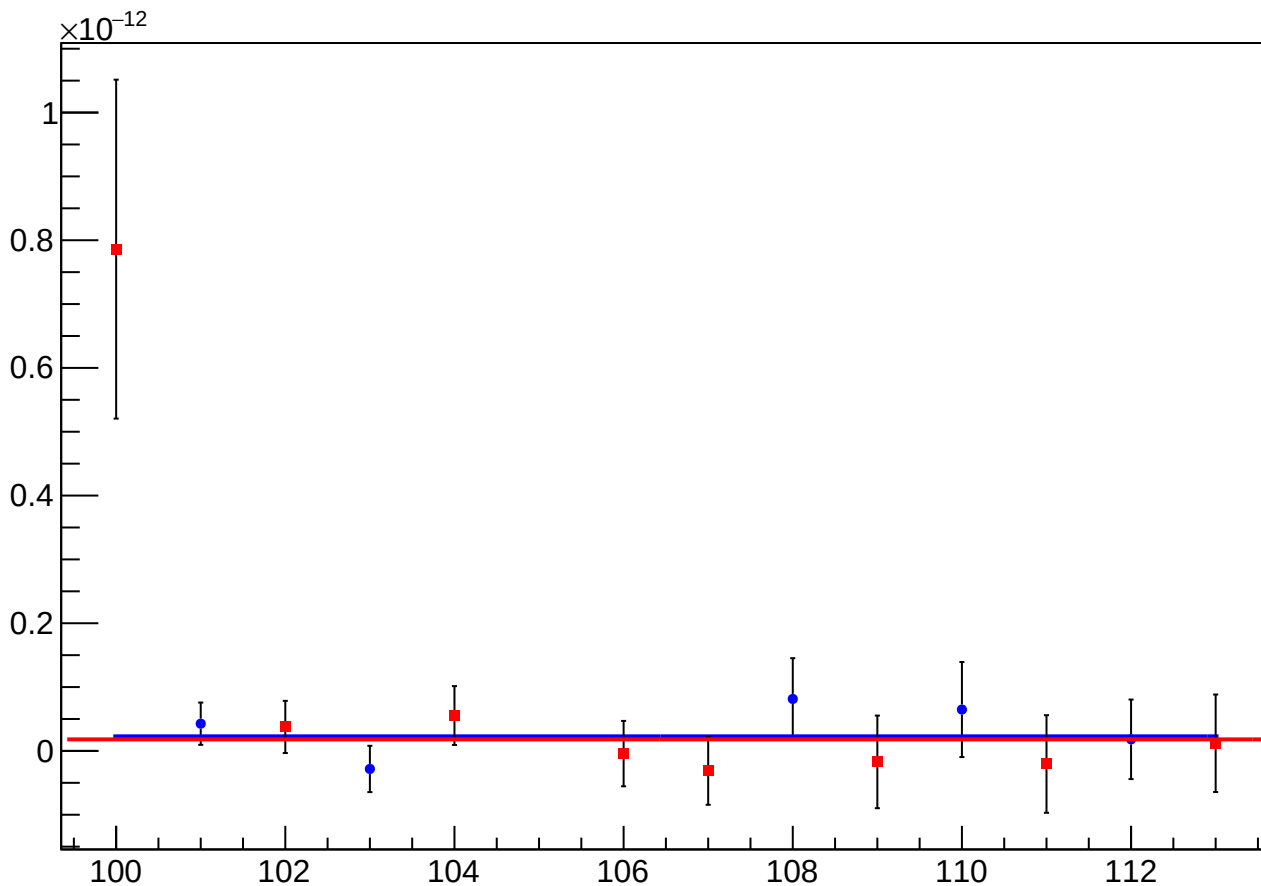
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 65.933 $\pm$ 0.020  $\chi^2$ /NDF: 574564.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 10.8/7

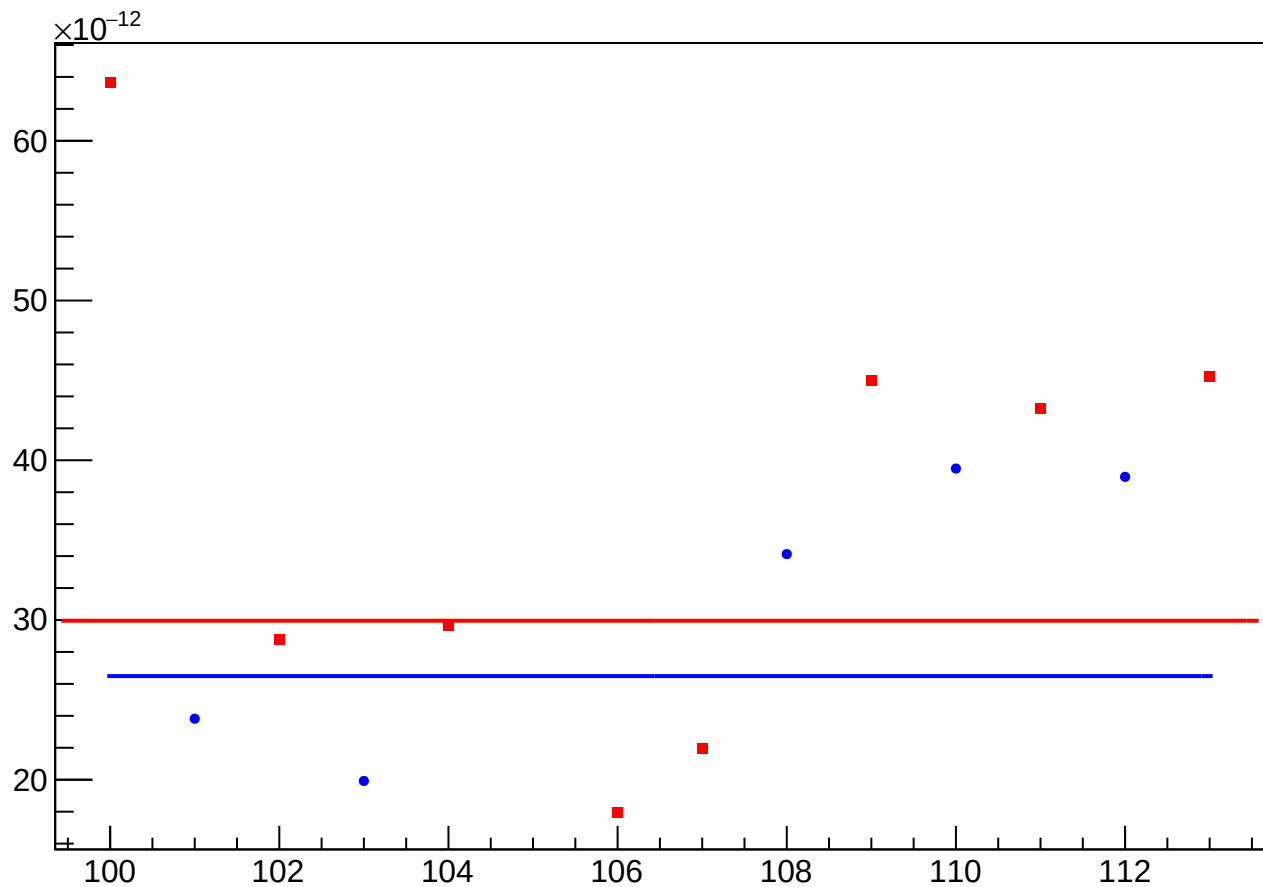
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 14.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 248192.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 414618.6/7

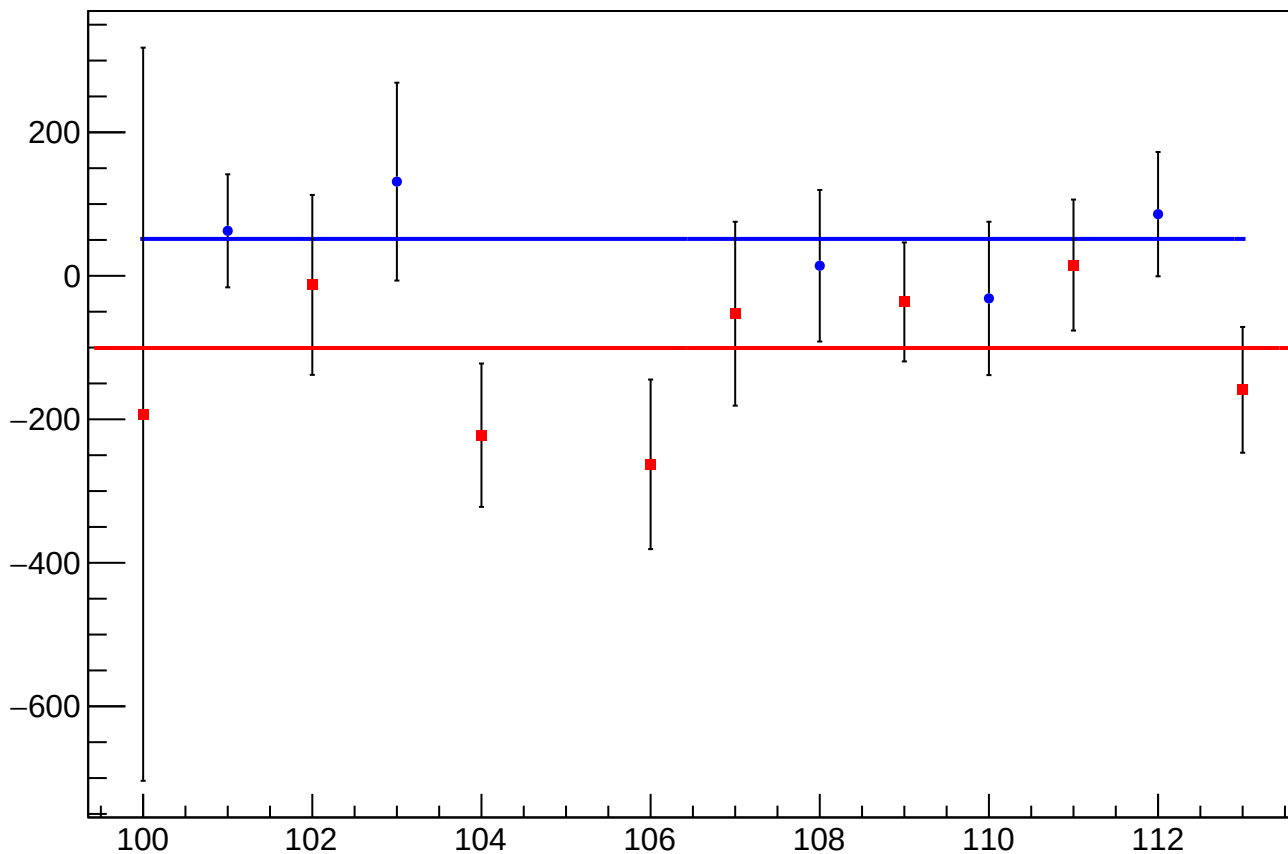
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 691090.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1548\_avg\_mean vs Slug



Right In: 51.440 $\pm$ 43.673  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -100.615 $\pm$ -37.910  $\chi^2$ /NDF: 6.7/7

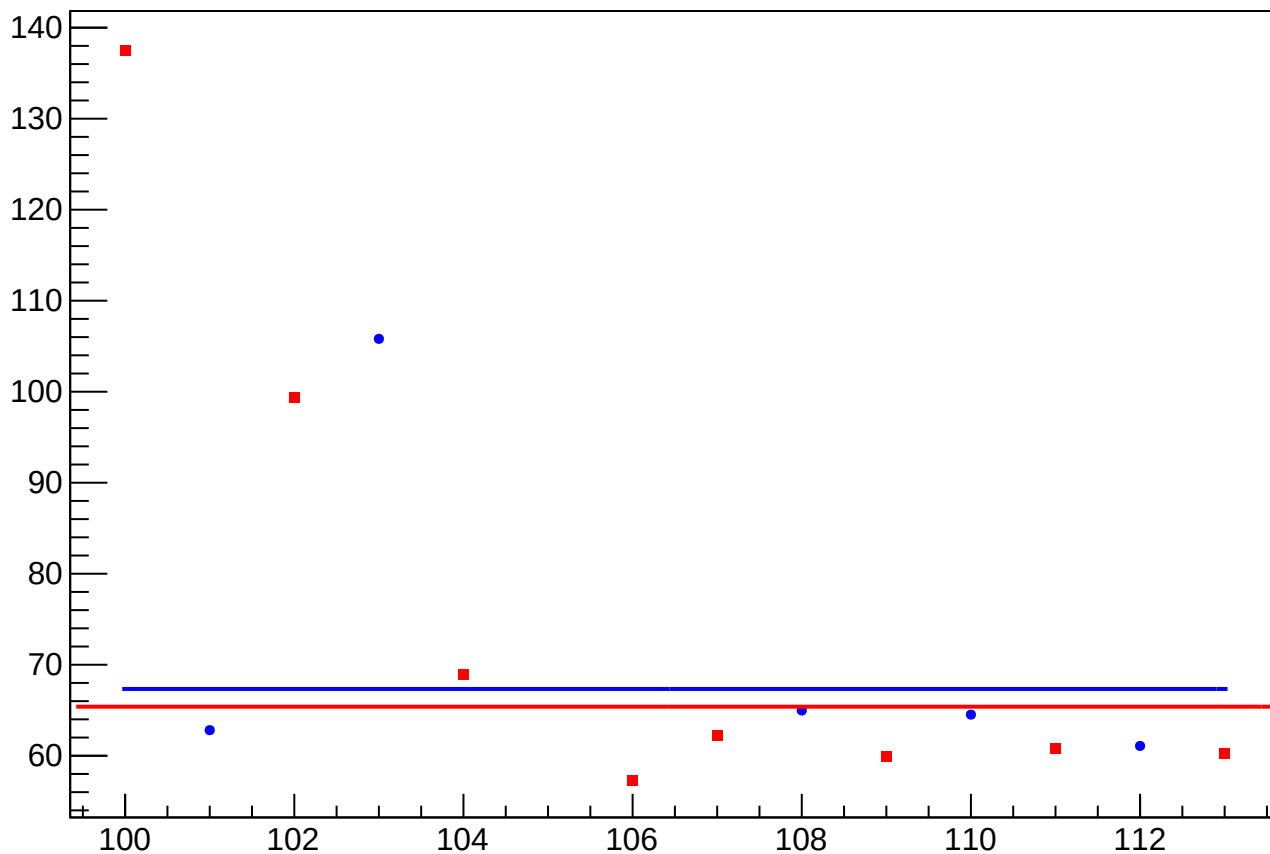
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -35.277 $\pm$ -28.629  $\chi^2$ /NDF: 14.8/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 67.339 $\pm$ 0.031  $\chi^2$ /NDF: 175074.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 65.392 $\pm$ 0.027  $\chi^2$ /NDF: 219914.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

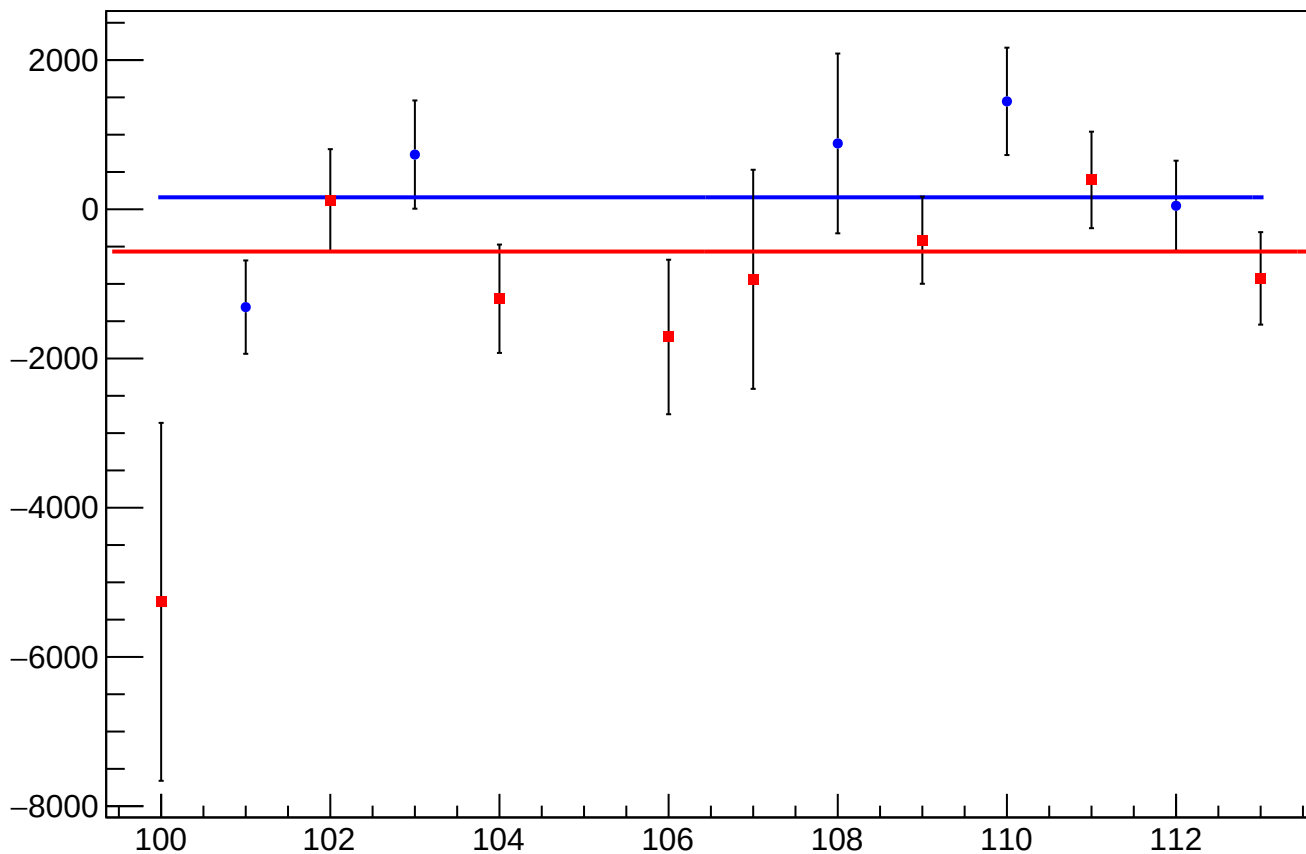
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 66.229 $\pm$ 0.020  $\chi^2$ /NDF: 397254.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1548\_avg\_reg\_correction\_mean vs Slug



Right In: 160.609 $\pm$ 319.201  $\chi^2$ /NDF: 9.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -566.374 $\pm$ 272.041  $\chi^2$ /NDF: 9.5/7

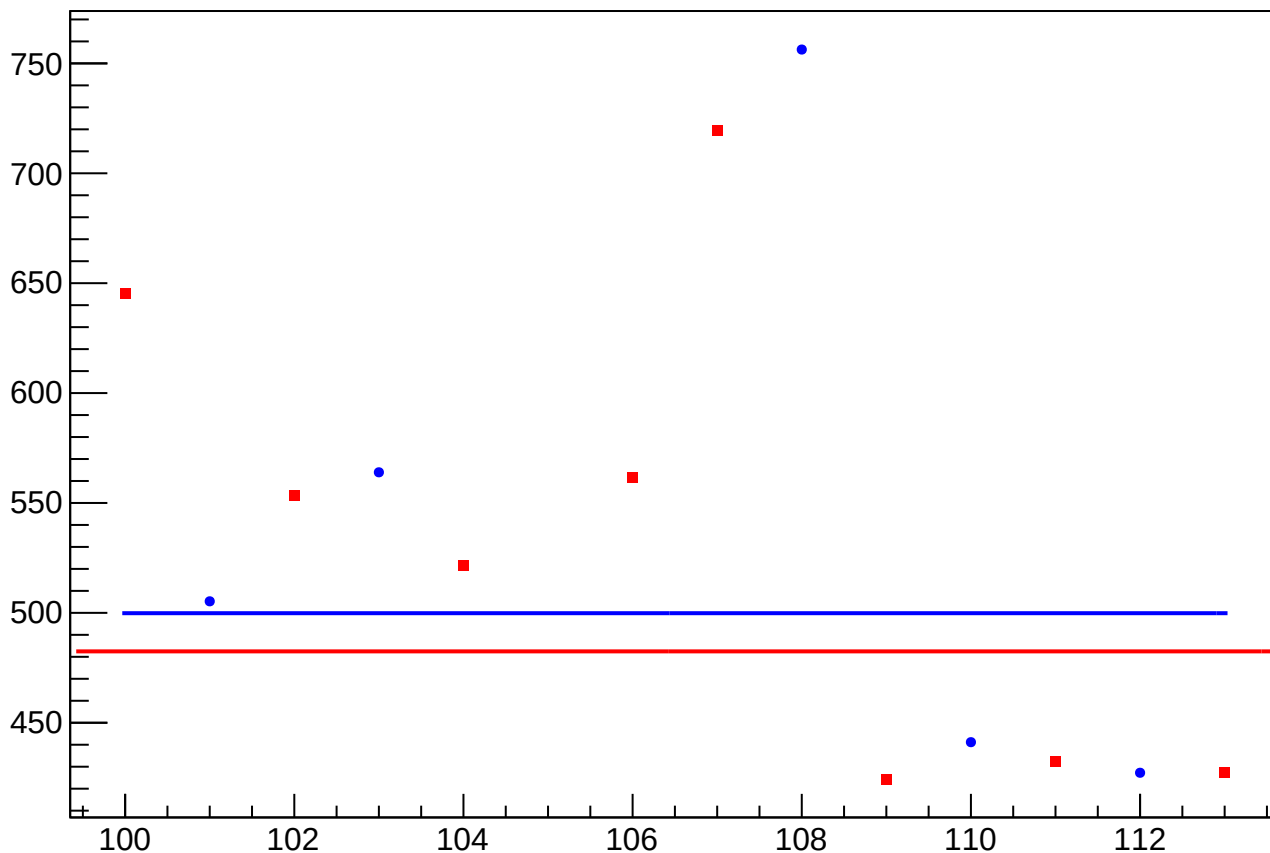
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -260.502 $\pm$ 207.048  $\chi^2$ /NDF: 22.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_reg\_correction\_rms vs Slug



Right In: 499.846 $\pm$ 0.226  $\chi^2$ /NDF: 148570.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 482.474 $\pm$ 0.192  $\chi^2$ /NDF: 148088.8/7

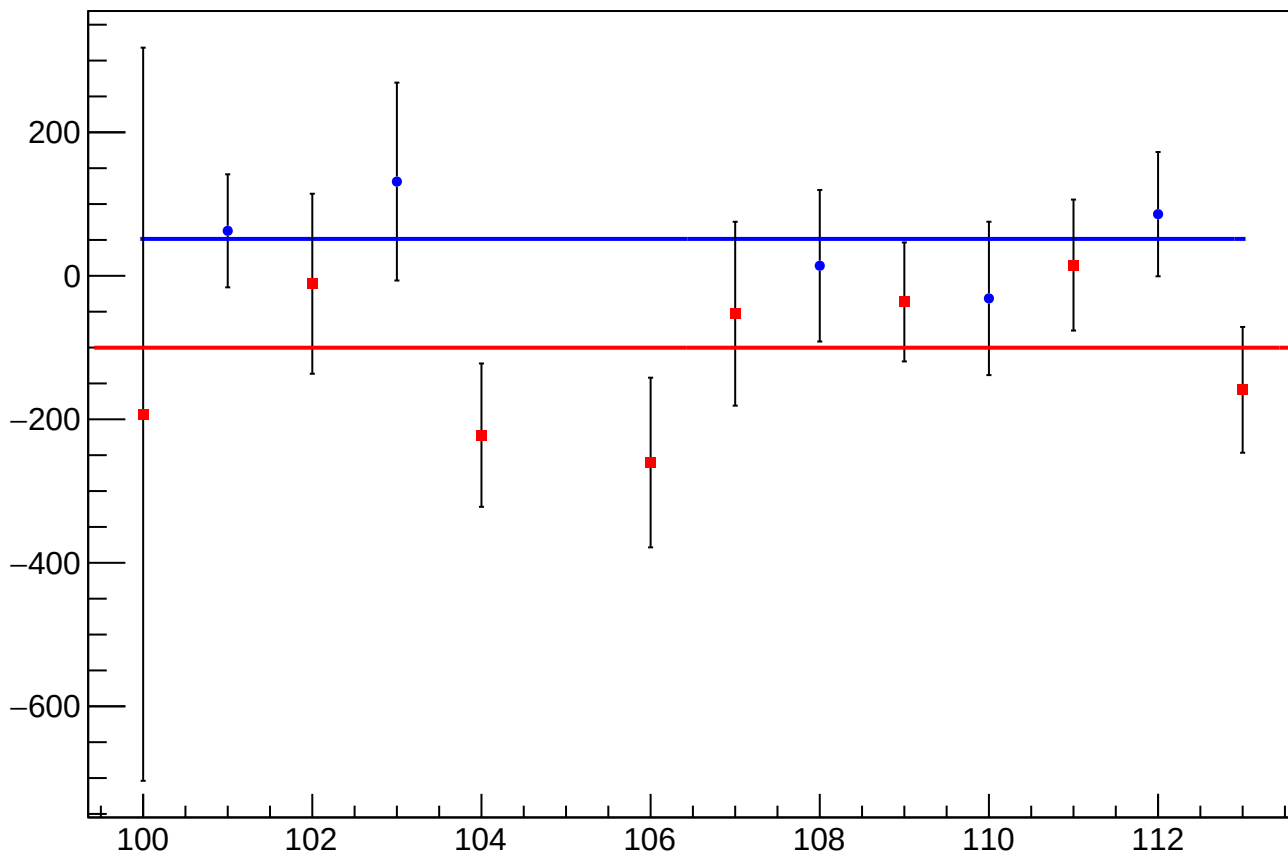
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 489.783 $\pm$ 0.146  $\chi^2$ /NDF: 300091.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_1548\_avg\_mean vs Slug



Right In: 51.437 $\pm$ 43.674  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -100.194 $\pm$ -37.914  $\chi^2$ /NDF: 6.6/7

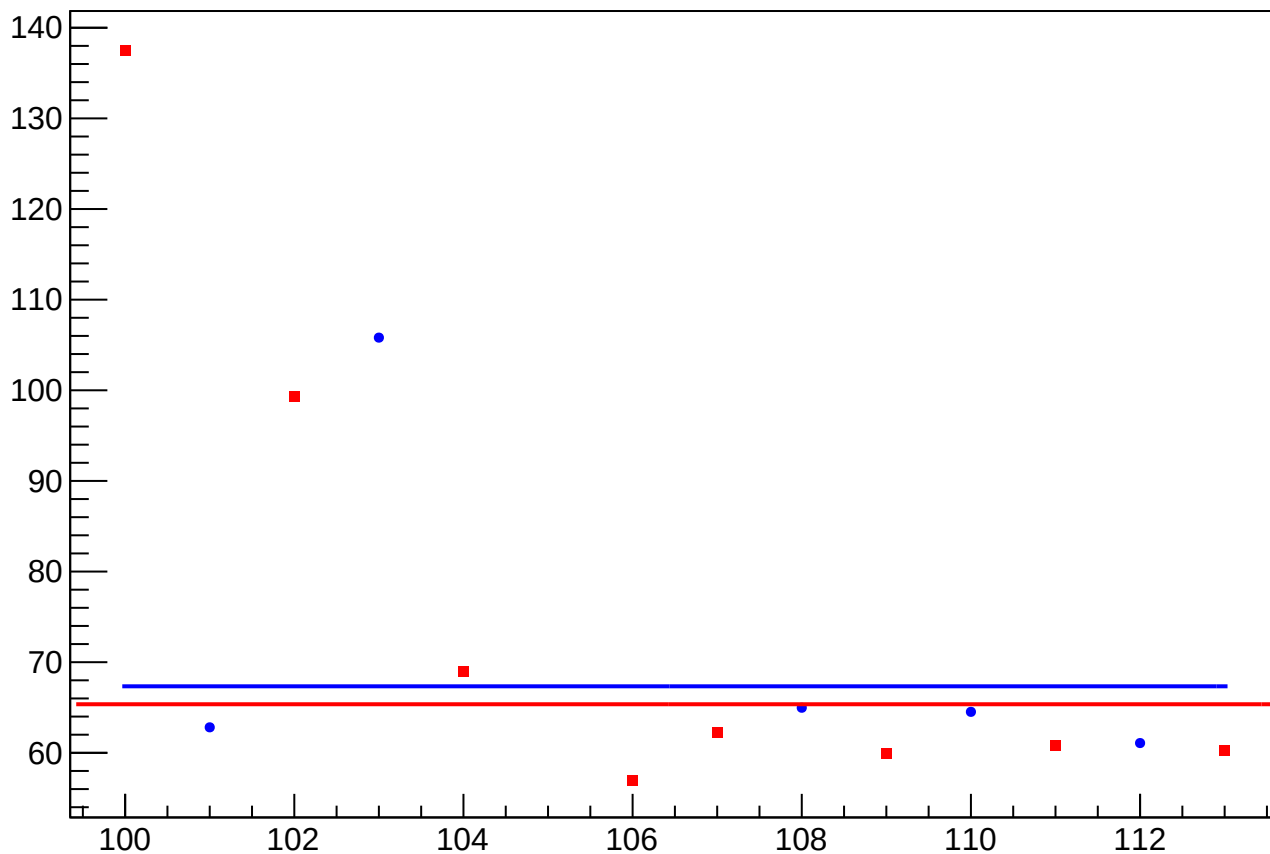
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -35.031 $\pm$ -28.630  $\chi^2$ /NDF: 14.7/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 67.339+/-0.031  $\chi^2/\text{NDF}$ : 175077.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 65.360+/-0.027  $\chi^2/\text{NDF}$ : 220931.5/7

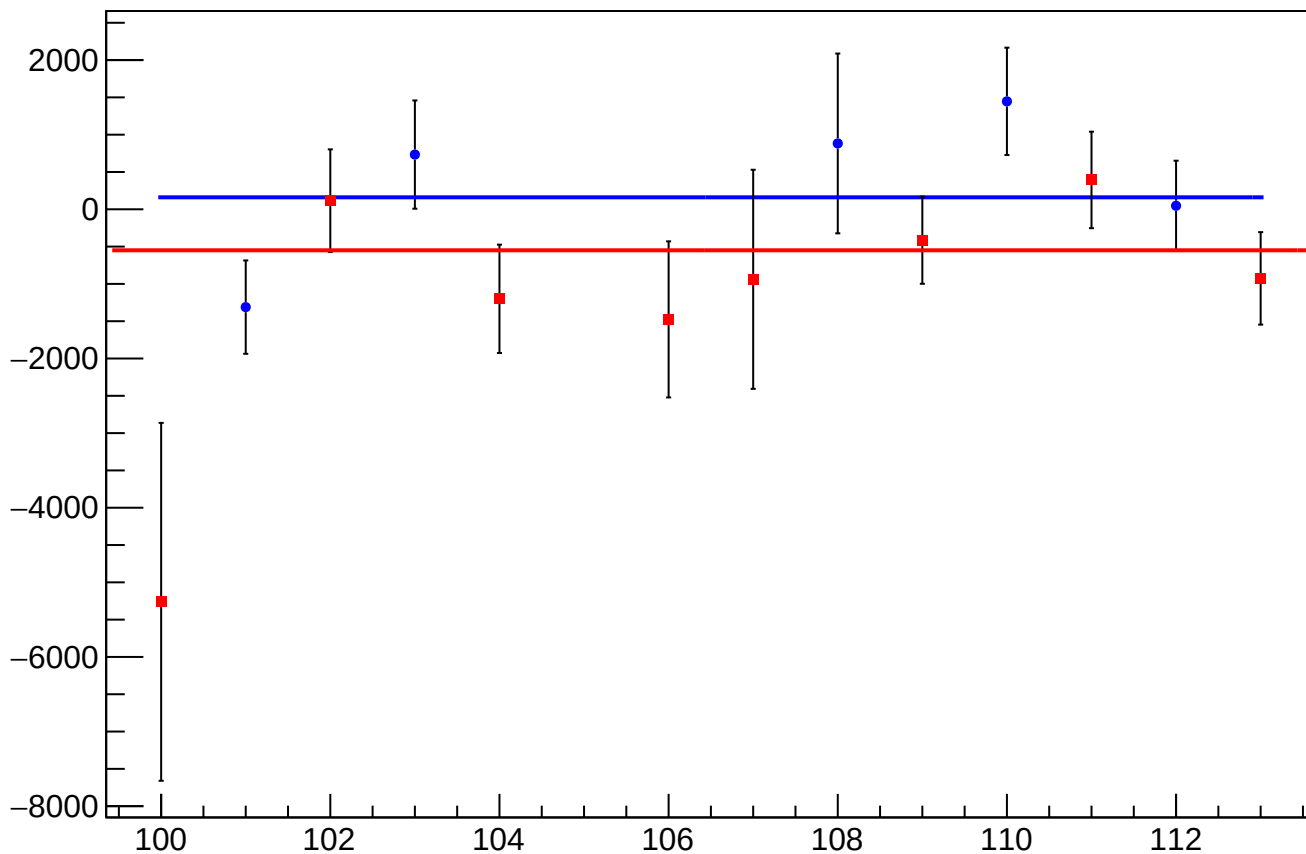
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.211+/-0.020  $\chi^2/\text{NDF}$ : 398351.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_cor\_correction\_mean vs Slug



Right In: 160.570 $\pm$ 319.207  $\chi^2$ /NDF: 9.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -549.532 $\pm$ 272.261  $\chi^2$ /NDF: 9.0/7

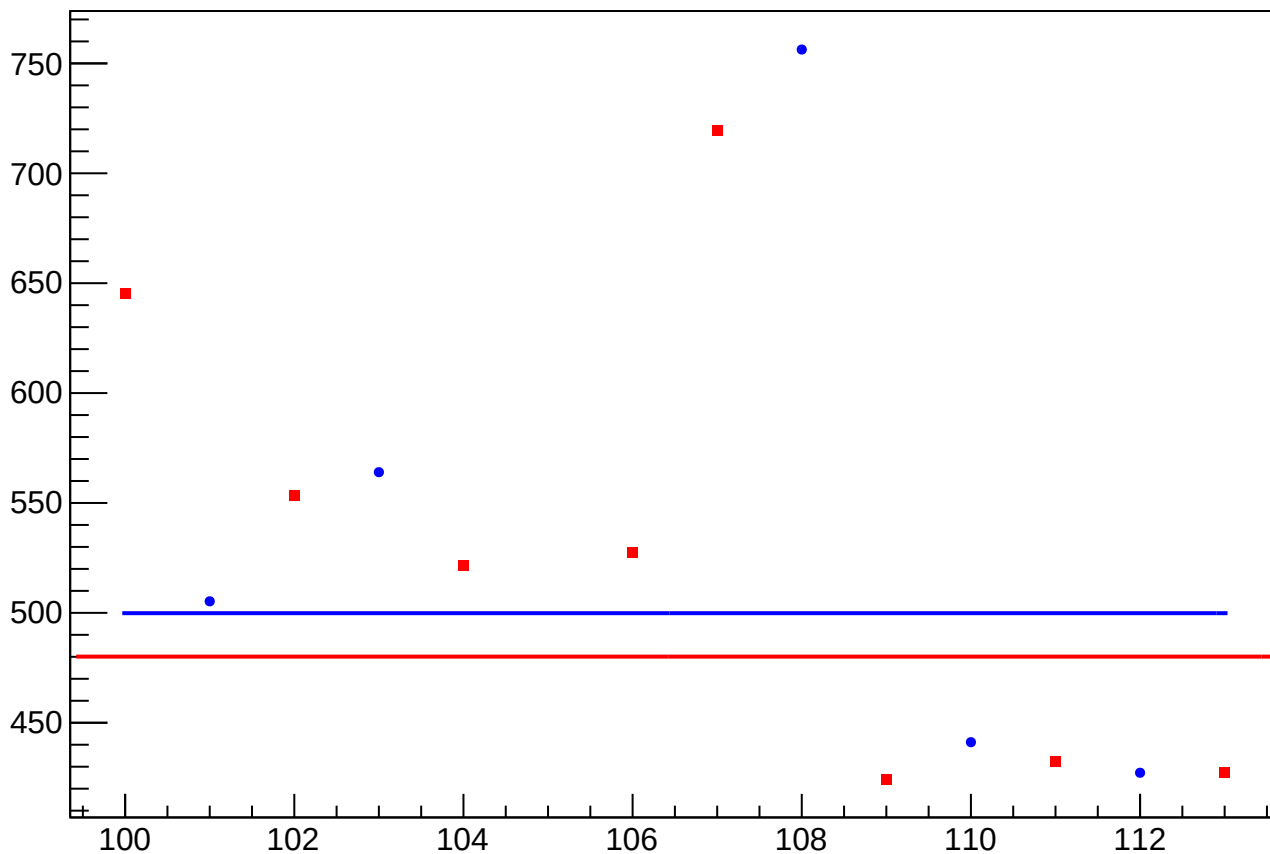
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -250.490 $\pm$ 207.147  $\chi^2$ /NDF: 21.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_cor\_correction\_rms vs Slug



Right In: 499.854 $\pm$ 0.226  $\chi^2$ /NDF: 148594.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 480.095 $\pm$ 0.193  $\chi^2$ /NDF: 140162.5/7

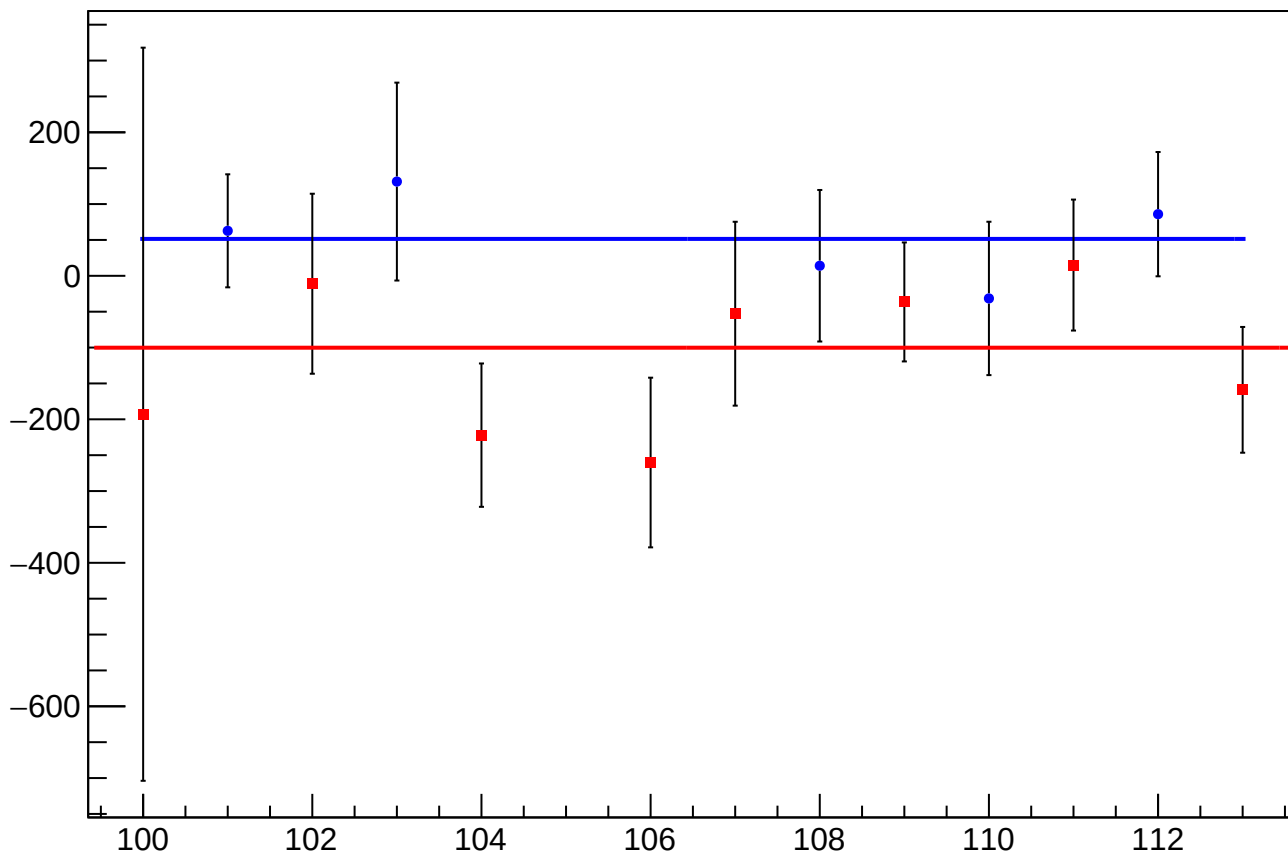
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 488.416 $\pm$ 0.146  $\chi^2$ /NDF: 293192.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_1548\_avg\_mean vs Slug



Right In: 51.437 $\pm$ 43.674  $\chi^2$ /NDF: 1.2/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -100.194 $\pm$ -37.914  $\chi^2$ /NDF: 6.6/7

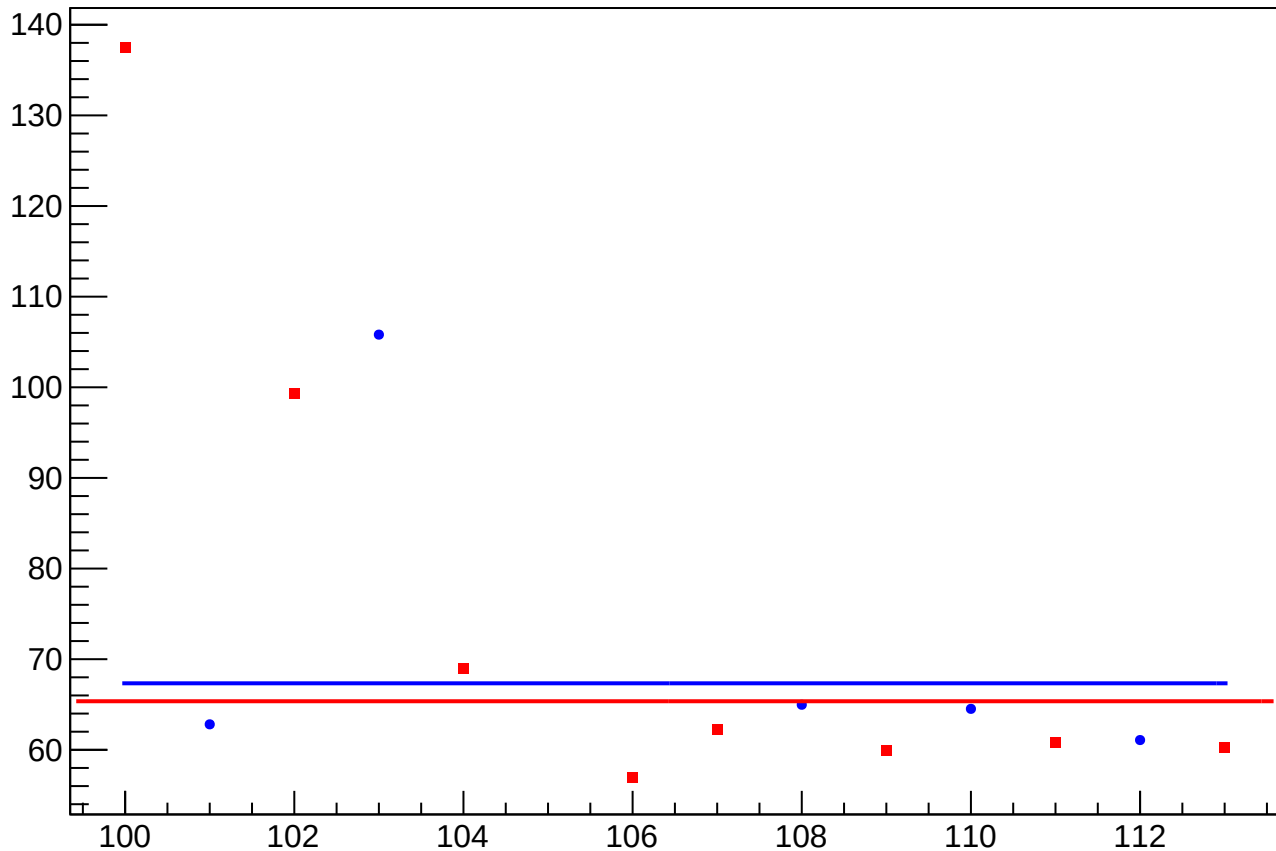
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -35.031 $\pm$ -28.630  $\chi^2$ /NDF: 14.7/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 67.339 $\pm$ 0.031  $\chi^2$ /NDF: 175077.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 65.360 $\pm$ 0.027  $\chi^2$ /NDF: 220931.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

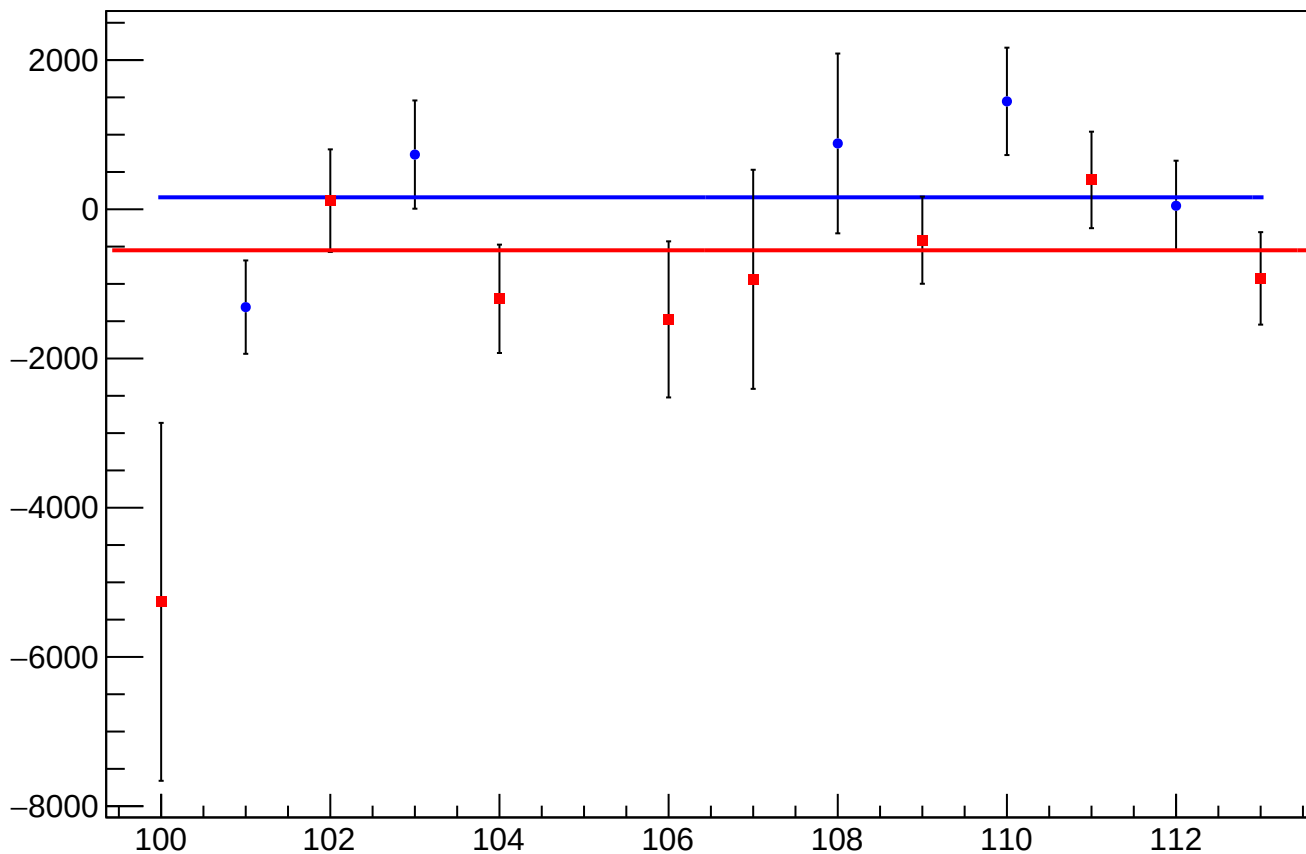
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 66.211 $\pm$ 0.020  $\chi^2$ /NDF: 398351.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1548\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 160.570 $\pm$ 319.207  $\chi^2$ /NDF: 9.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -549.532 $\pm$ 272.261  $\chi^2$ /NDF: 9.0/7

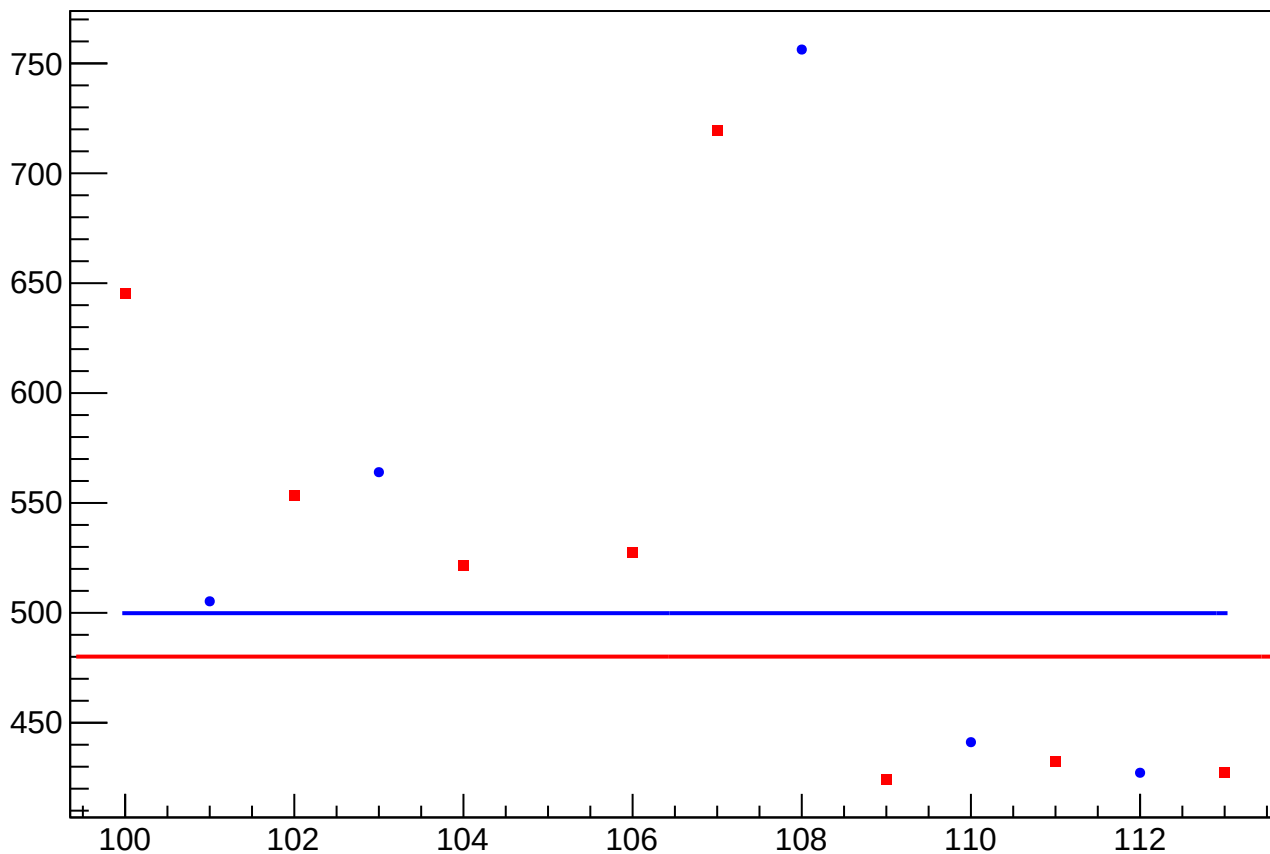
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -250.490 $\pm$ 207.147  $\chi^2$ /NDF: 21.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 499.854+/-0.226  $\chi^2/\text{NDF}$ : 148594.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 480.095+/-0.193  $\chi^2/\text{NDF}$ : 140162.5/7

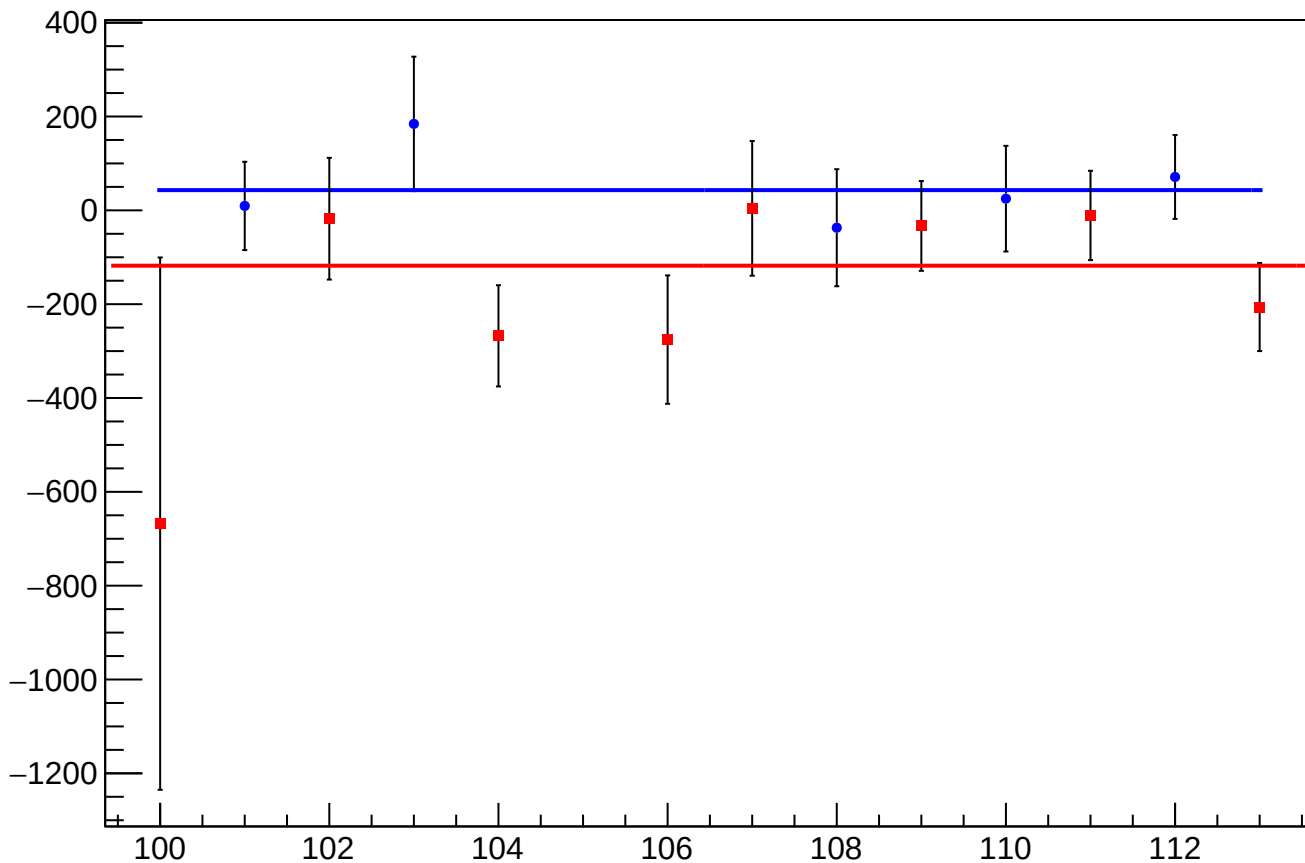
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 488.416+/-0.146  $\chi^2/\text{NDF}$ : 293192.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_1548\_avg\_mean vs Slug



Right In: 43.095 $\pm$ 48.223  $\chi^2$ /NDF: 1.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -117.973 $\pm$ 41.400  $\chi^2$ /NDF: 8.4/7

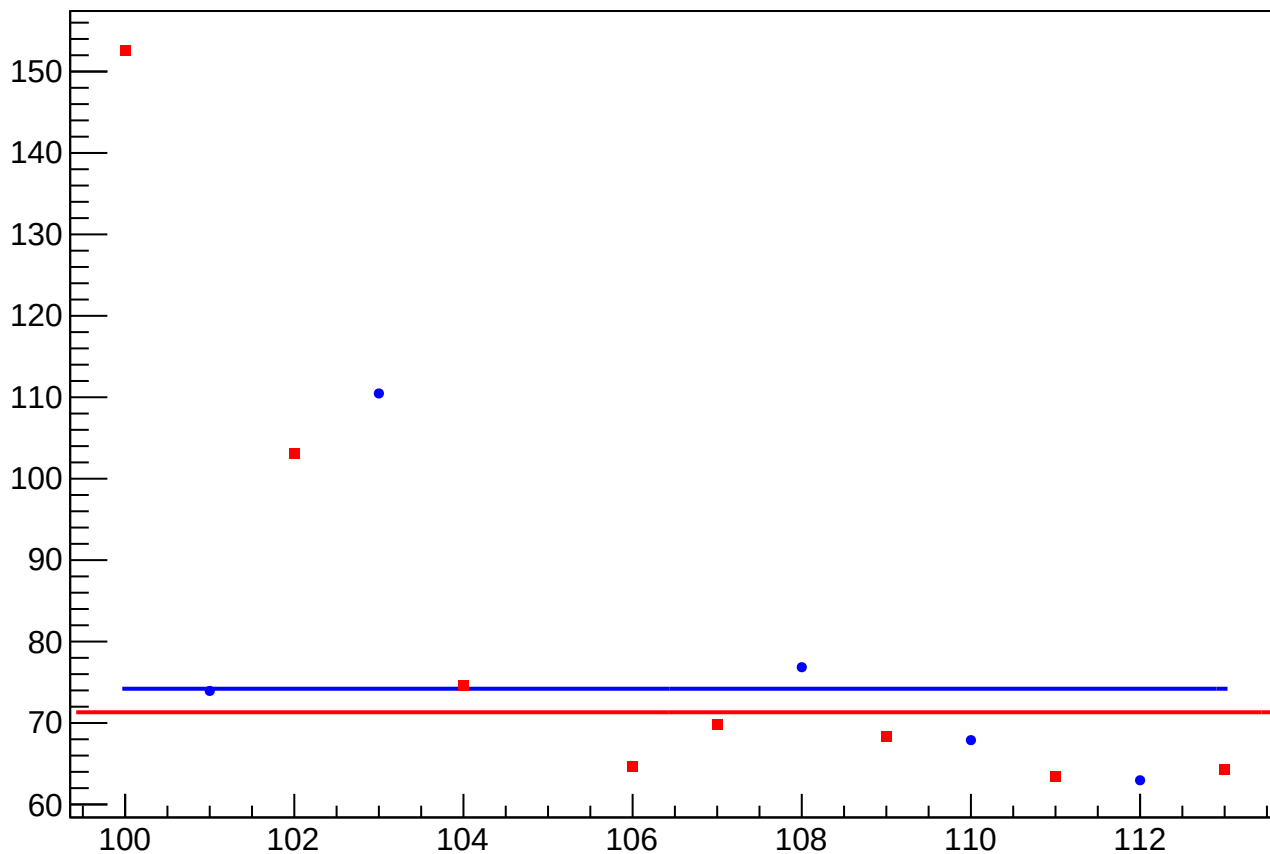
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -49.631 $\pm$ 31.412  $\chi^2$ /NDF: 16.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 74.208 $\pm$ 0.034  $\chi^2$ /NDF: 167002.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 71.317 $\pm$ 0.029  $\chi^2$ /NDF: 194119.6/7

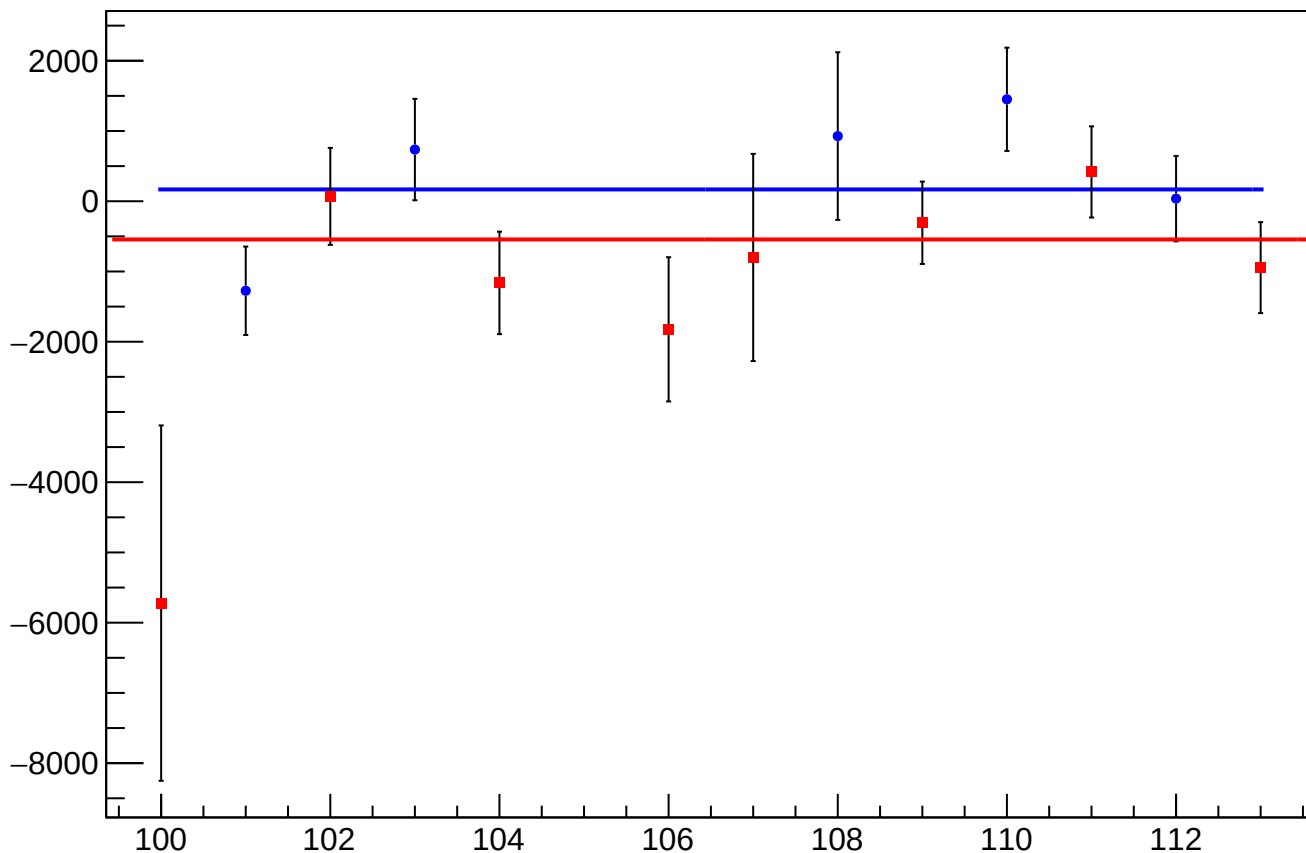
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 72.544 $\pm$ 0.022  $\chi^2$ /NDF: 365258.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_dit\_correction\_mean vs Slug



Right In: 168.198 $\pm$ 320.997  $\chi^2$ /NDF: 9.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -543.906 $\pm$ 275.139  $\chi^2$ /NDF: 10.0/7

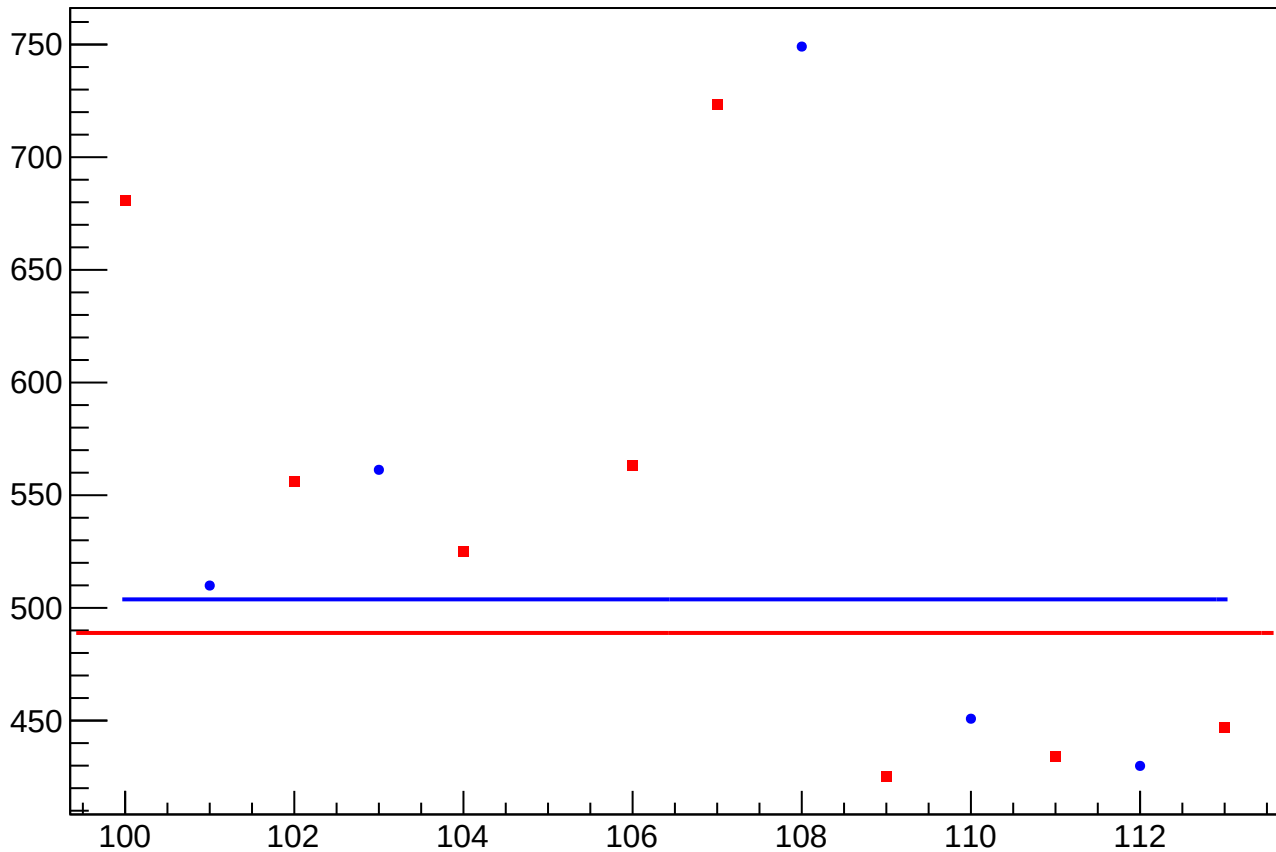
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -242.311 $\pm$ 208.901  $\chi^2$ /NDF: 22.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_dit\_correction\_rms vs Slug



Right In: 503.782 $\pm$ 0.227  $\chi^2$ /NDF: 137328.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 488.883 $\pm$ 0.195  $\chi^2$ /NDF: 142949.8/7

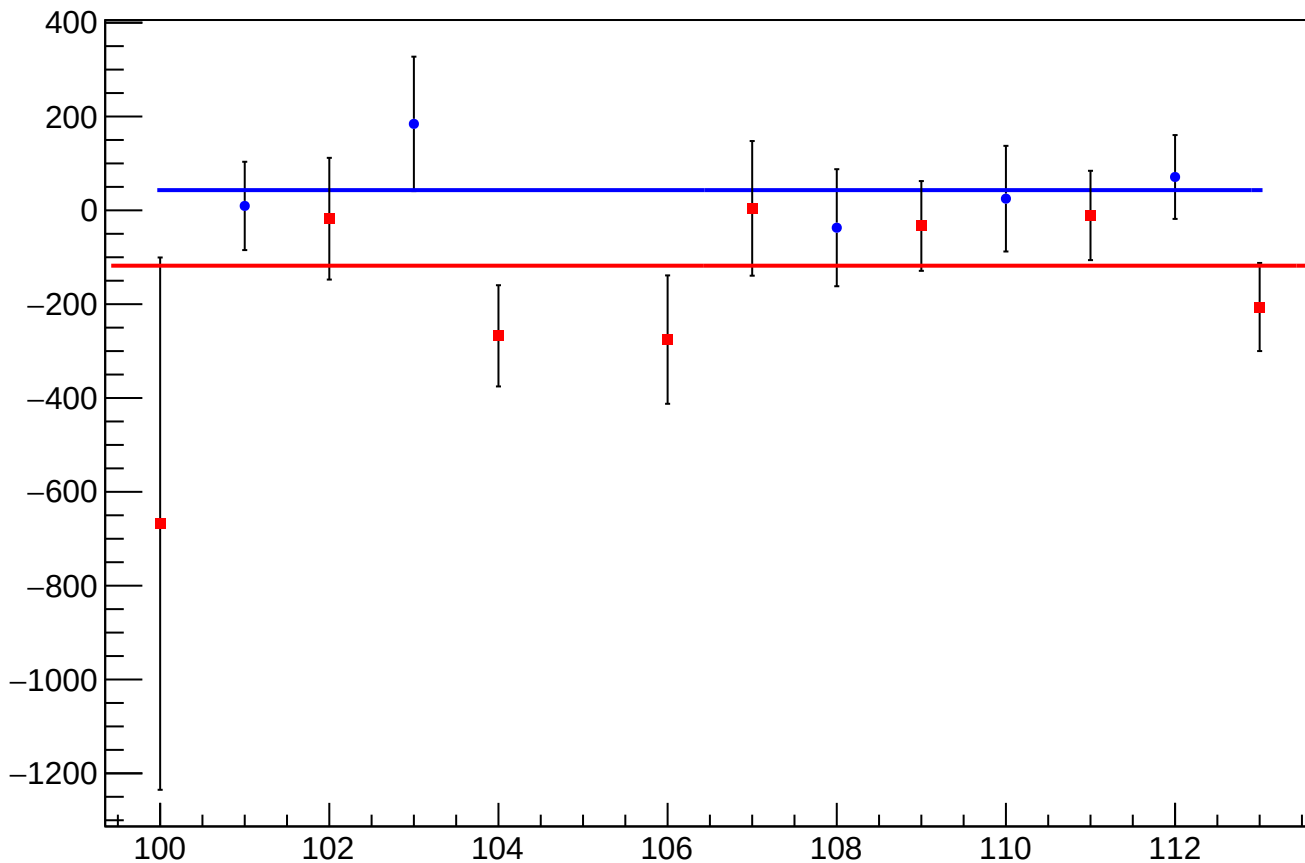
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 495.193 $\pm$ 0.148  $\chi^2$ /NDF: 282761.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_1548\_avg\_mean vs Slug



Right In: 43.095+/-48.223  $\chi^2/\text{NDF}$ : 1.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -117.972+/-41.400  $\chi^2/\text{NDF}$ : 8.4/7

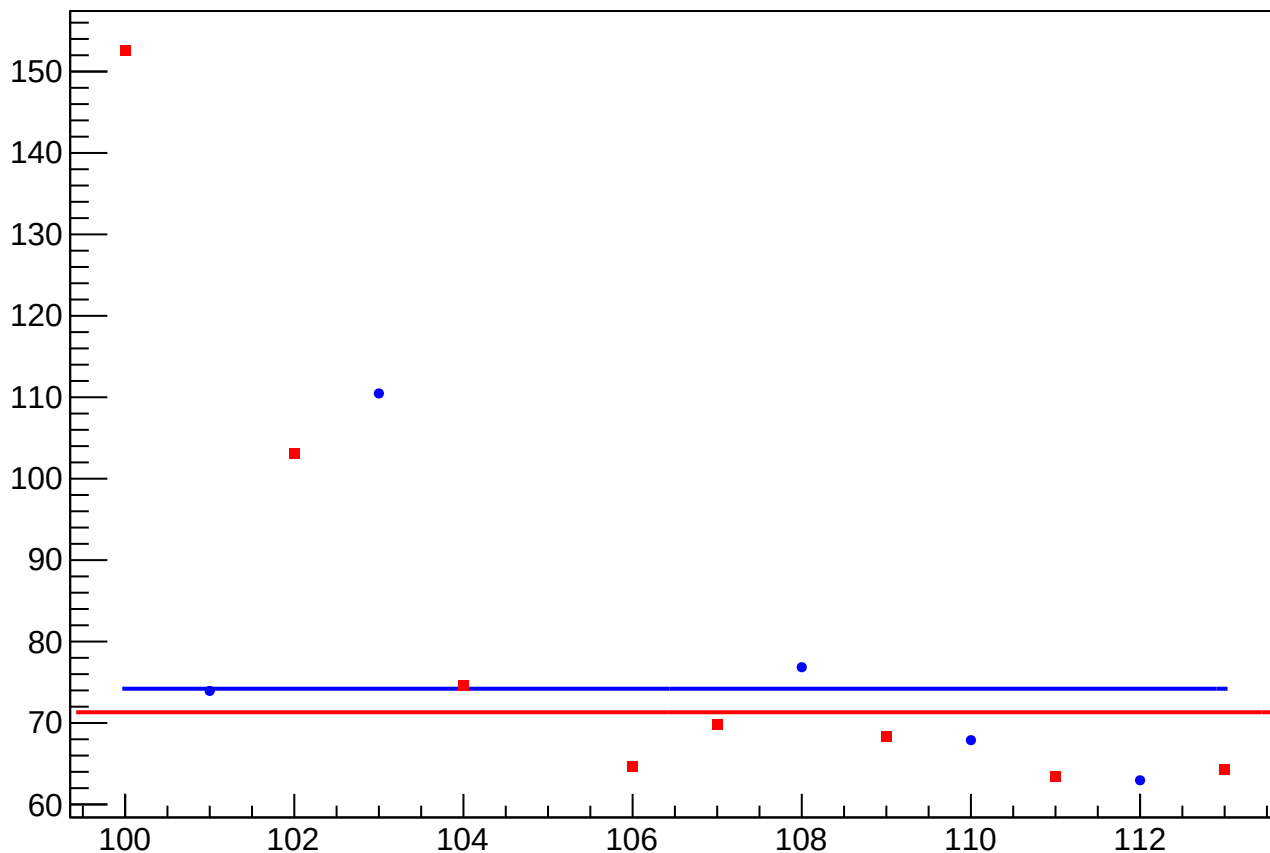
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -49.630+/-31.412  $\chi^2/\text{NDF}$ : 16.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 74.208 $\pm$ 0.034  $\chi^2$ /NDF: 167003.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 71.317 $\pm$ 0.029  $\chi^2$ /NDF: 194120.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

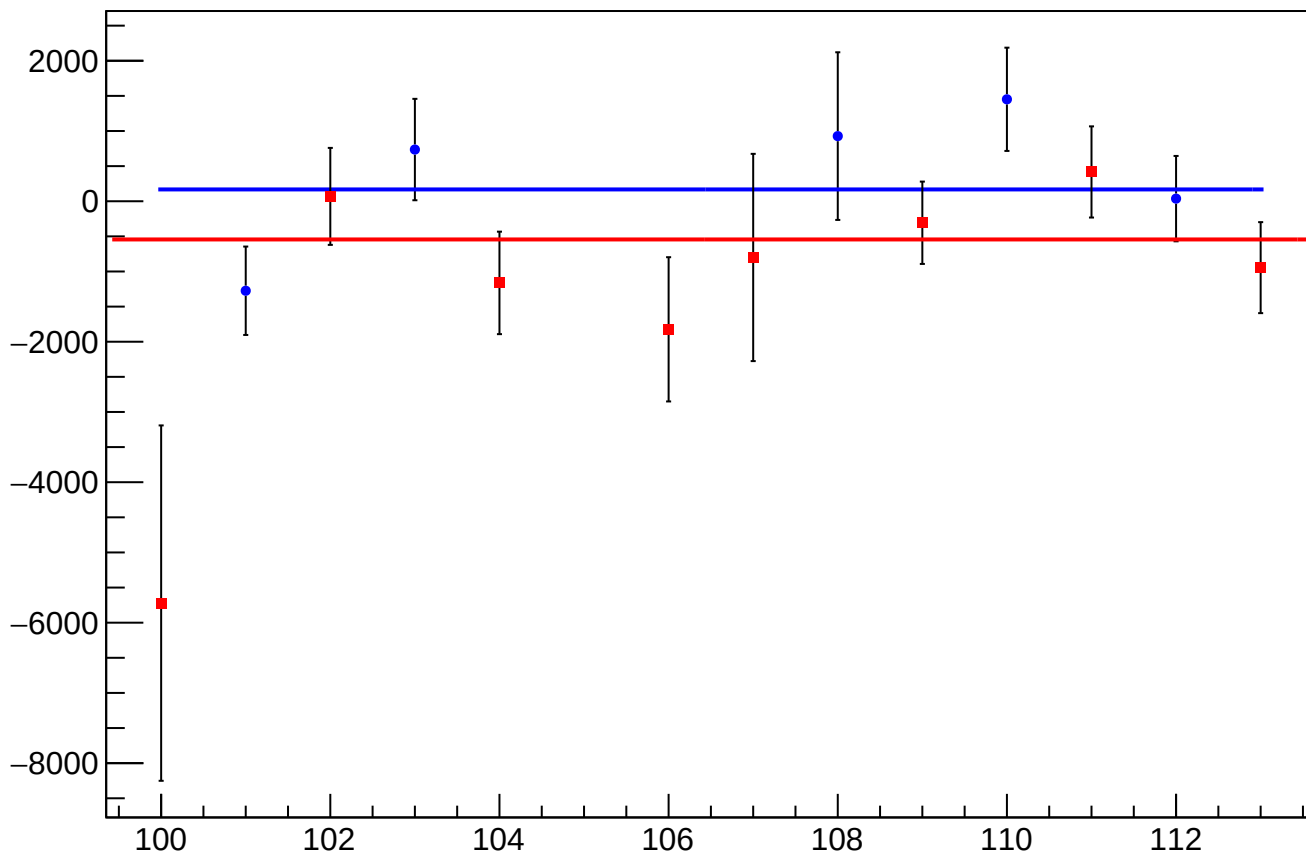
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 72.544 $\pm$ 0.022  $\chi^2$ /NDF: 365260.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1548\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 168.198 $\pm$ 320.996  $\chi^2$ /NDF: 9.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -543.904 $\pm$ 275.138  $\chi^2$ /NDF: 10.0/7

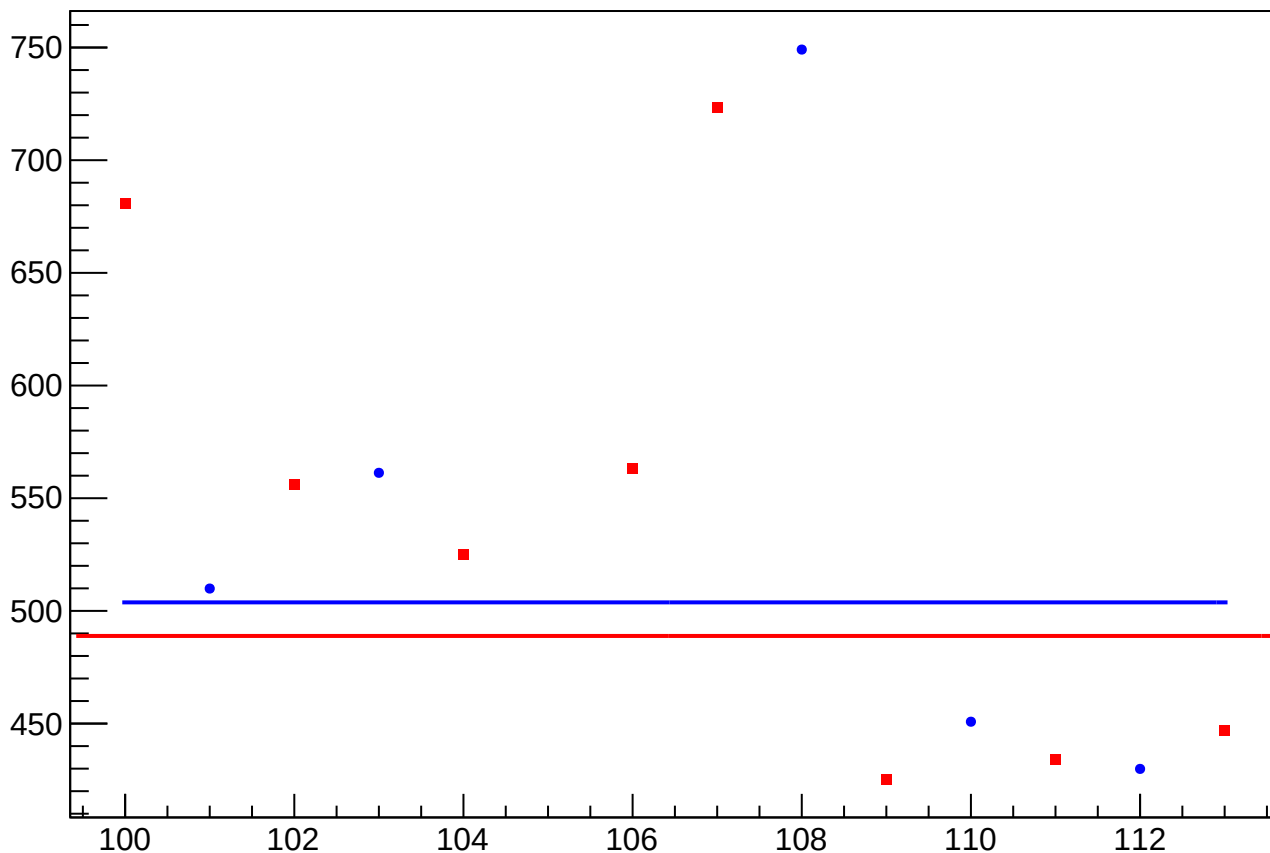
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -242.310 $\pm$ 208.901  $\chi^2$ /NDF: 22.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 503.781 $\pm$ 0.227  $\chi^2$ /NDF: 137329.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 488.883 $\pm$ 0.195  $\chi^2$ /NDF: 142951.0/7

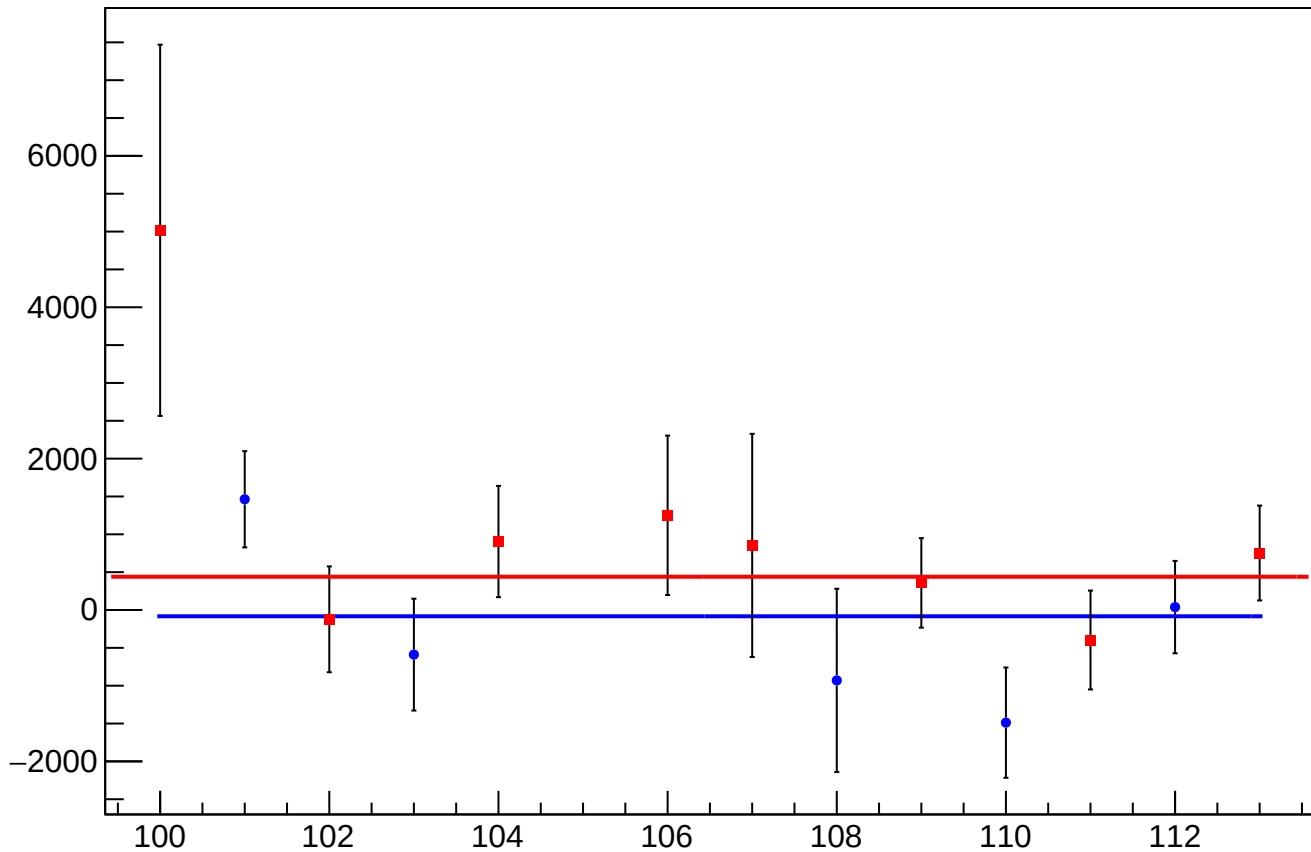
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 495.193 $\pm$ 0.148  $\chi^2$ /NDF: 282763.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1548\_avg\_mean vs Slug



Right In:  $-83.022 \pm 323.512$   $\chi^2/\text{NDF}$ : 10.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $439.476 \pm 275.515$   $\chi^2/\text{NDF}$ : 7.1/7

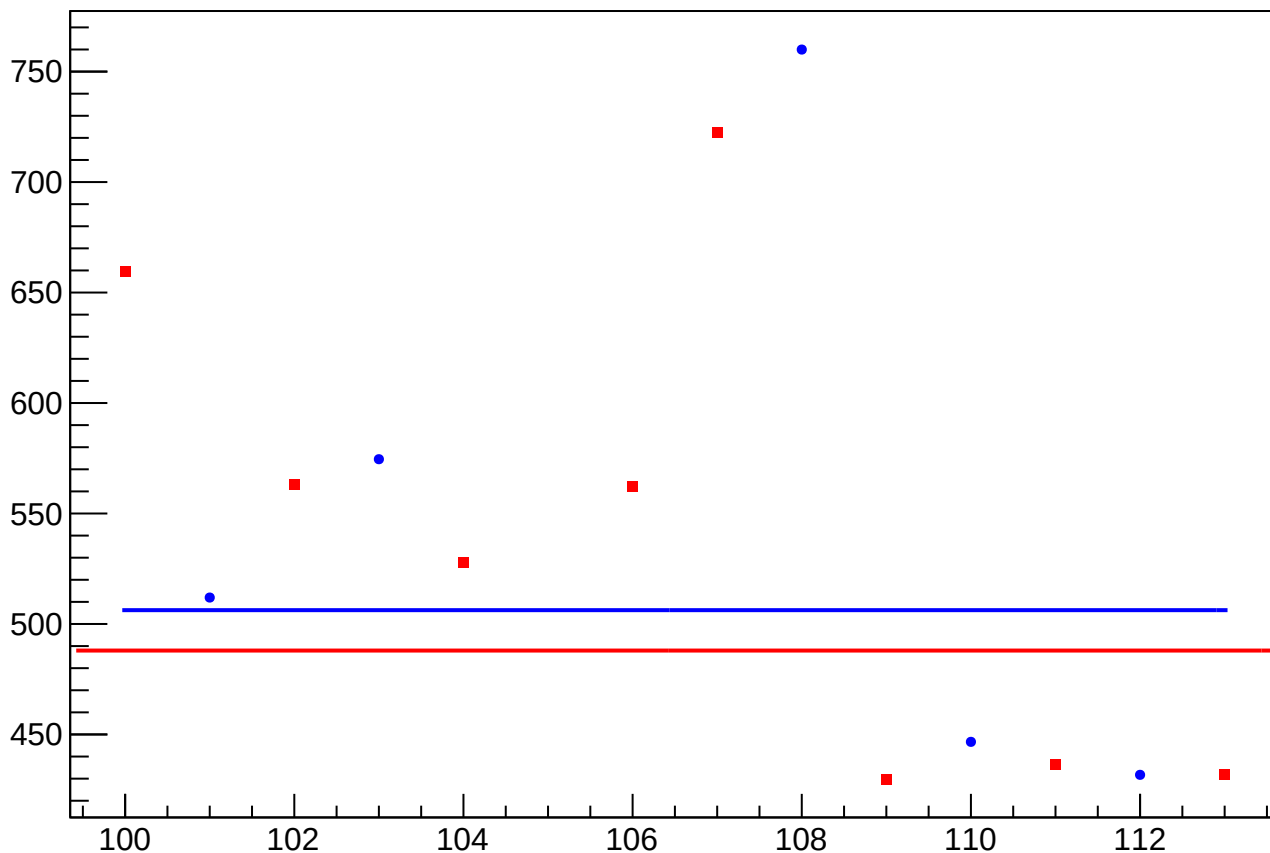
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $219.825 \pm 209.756$   $\chi^2/\text{NDF}$ : 19.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1548\_avg\_rms vs Slug



Right In: 506.252 $\pm$ 0.229  $\chi^2$ /NDF: 148280.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 487.972 $\pm$ 0.195  $\chi^2$ /NDF: 147333.2/7

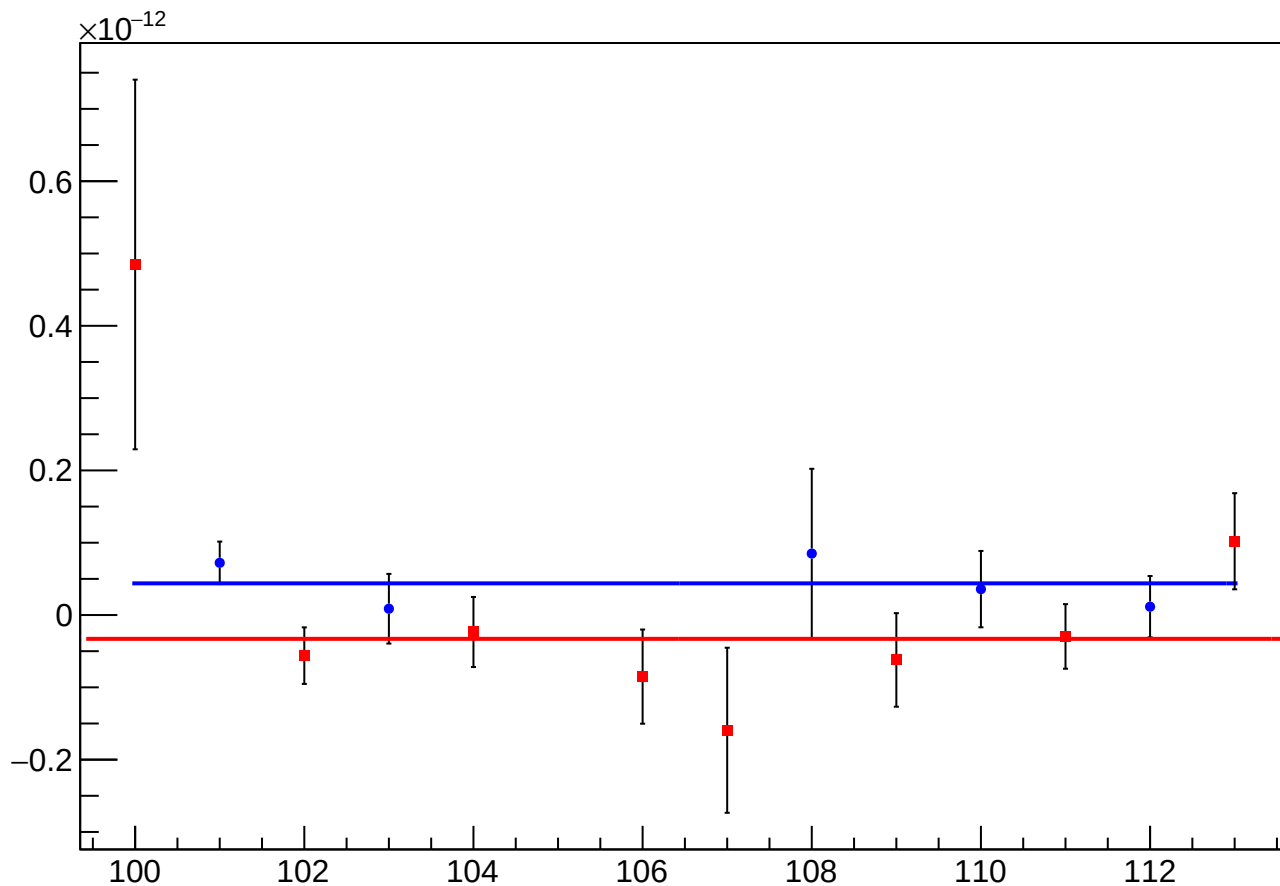
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 495.657 $\pm$ 0.148  $\chi^2$ /NDF: 299314.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1548\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.7/7

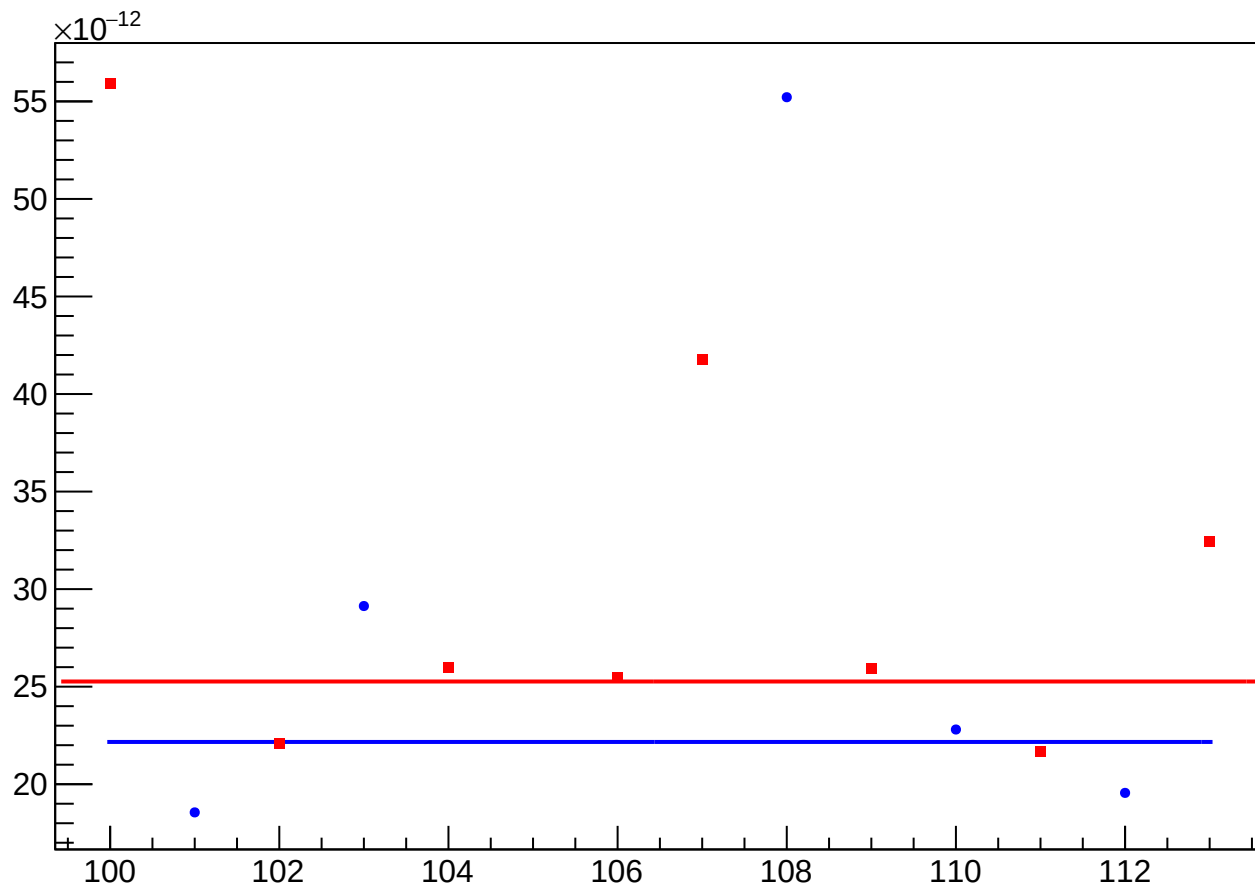
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 20.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 238953.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 120658.4/7

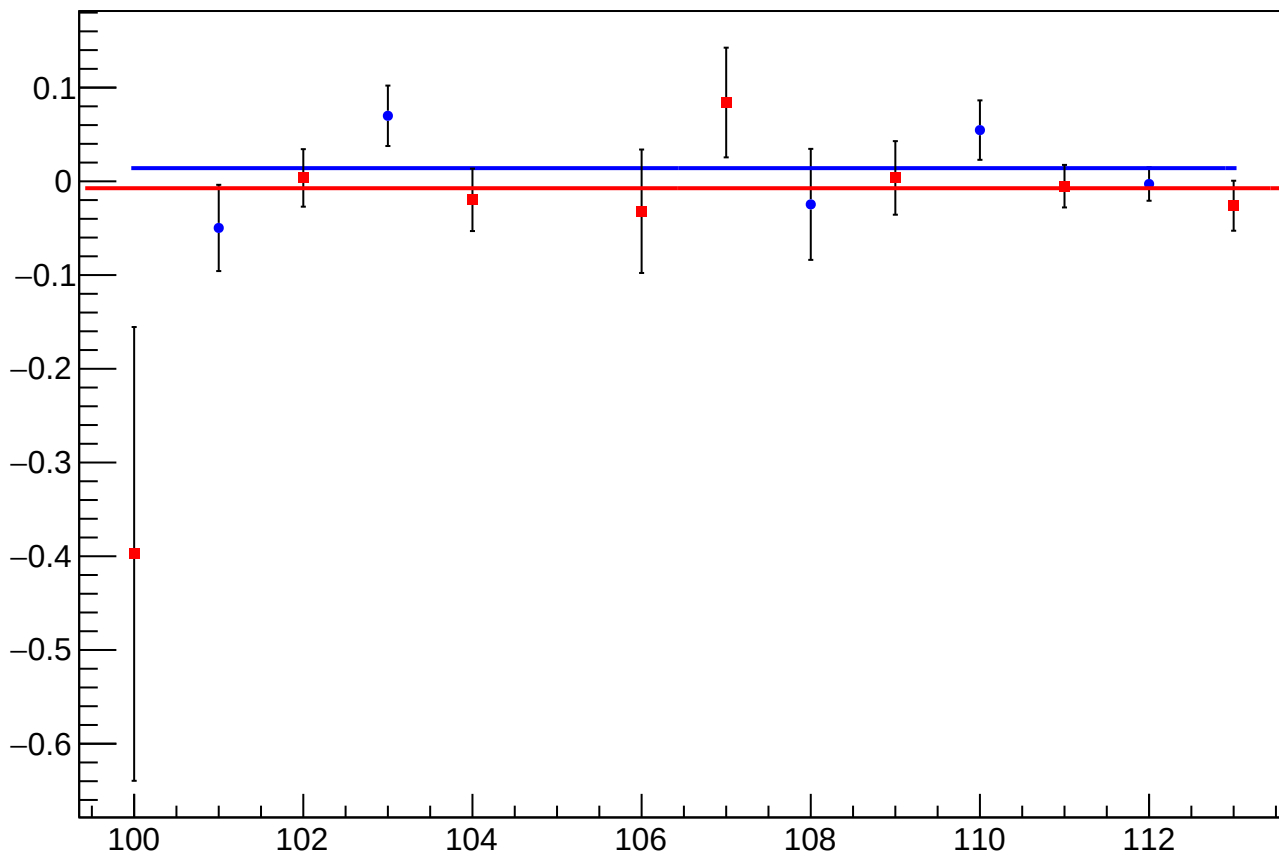
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 383343.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.014 $\pm$ 0.013  $\chi^2$ /NDF: 7.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.007 $\pm$ 0.012  $\chi^2$ /NDF: 6.0/7

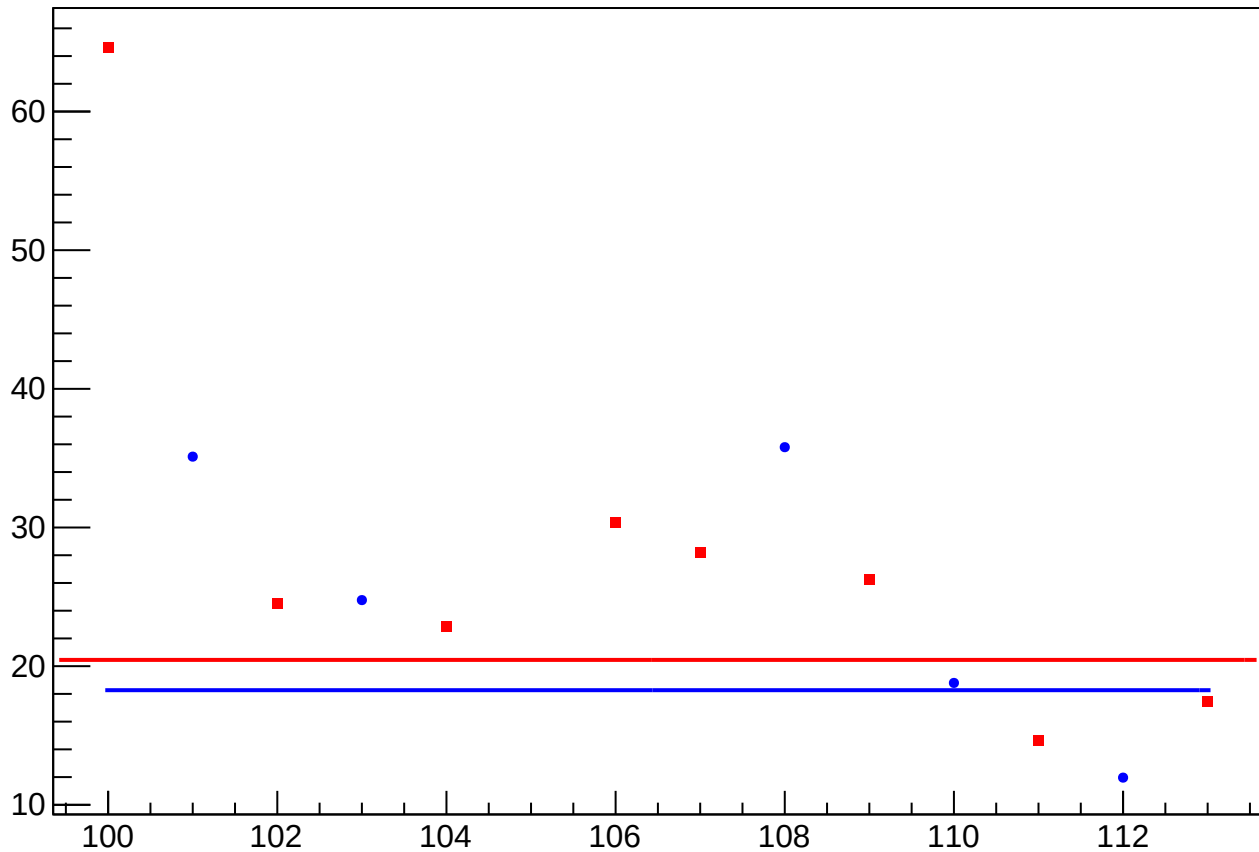
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.009  $\chi^2$ /NDF: 15.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 18.267 $\pm$ 0.009  $\chi^2$ /NDF: 773871.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 20.451 $\pm$ 0.009  $\chi^2$ /NDF: 394367.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

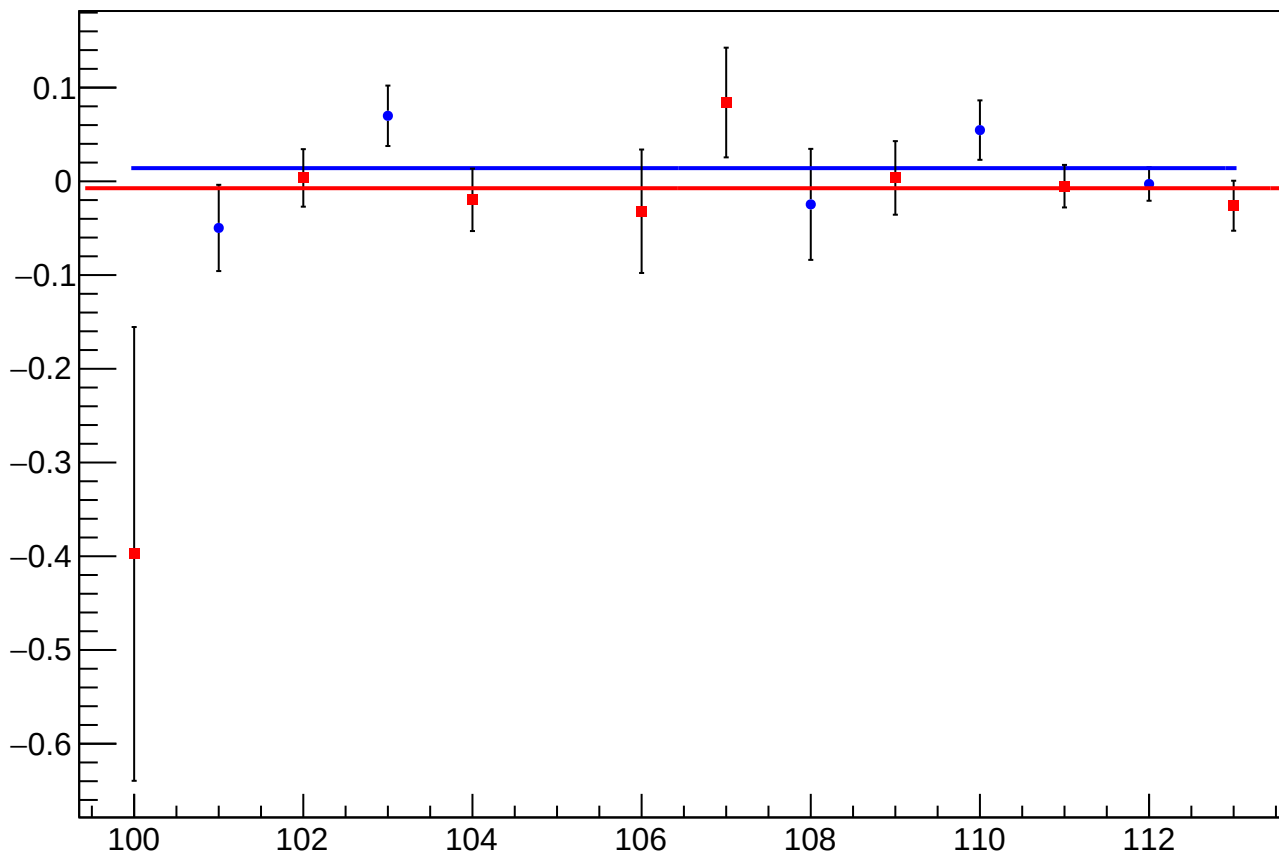
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 19.417 $\pm$ 0.006  $\chi^2$ /NDF: 1197591.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1548\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.014 $\pm$ 0.013  $\chi^2$ /NDF: 7.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.007 $\pm$ 0.012  $\chi^2$ /NDF: 6.0/7

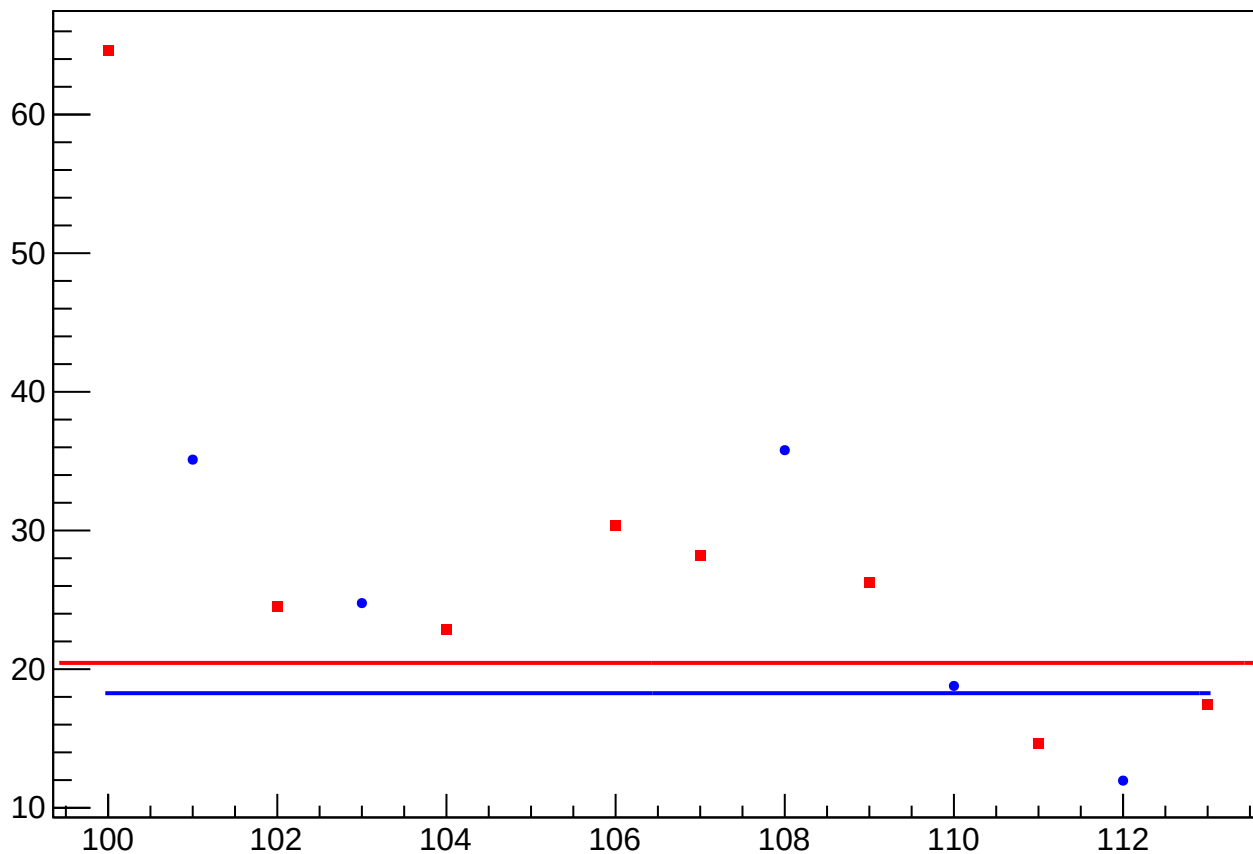
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.009  $\chi^2$ /NDF: 15.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 18.267+/-0.009  $\chi^2/\text{NDF}$ : 773871.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.451+/-0.009  $\chi^2/\text{NDF}$ : 394367.9/7

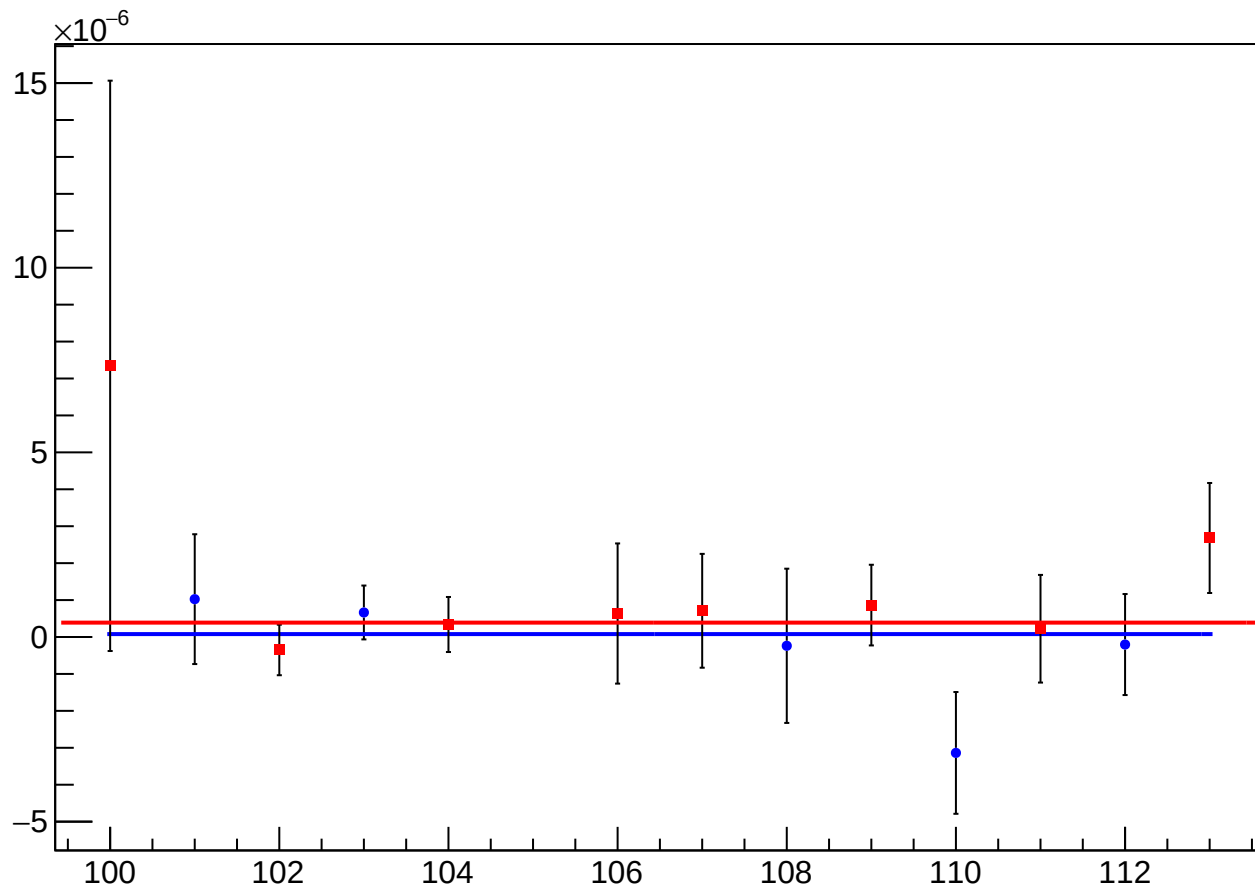
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.417+/-0.006  $\chi^2/\text{NDF}$ : 1197591.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.6/7

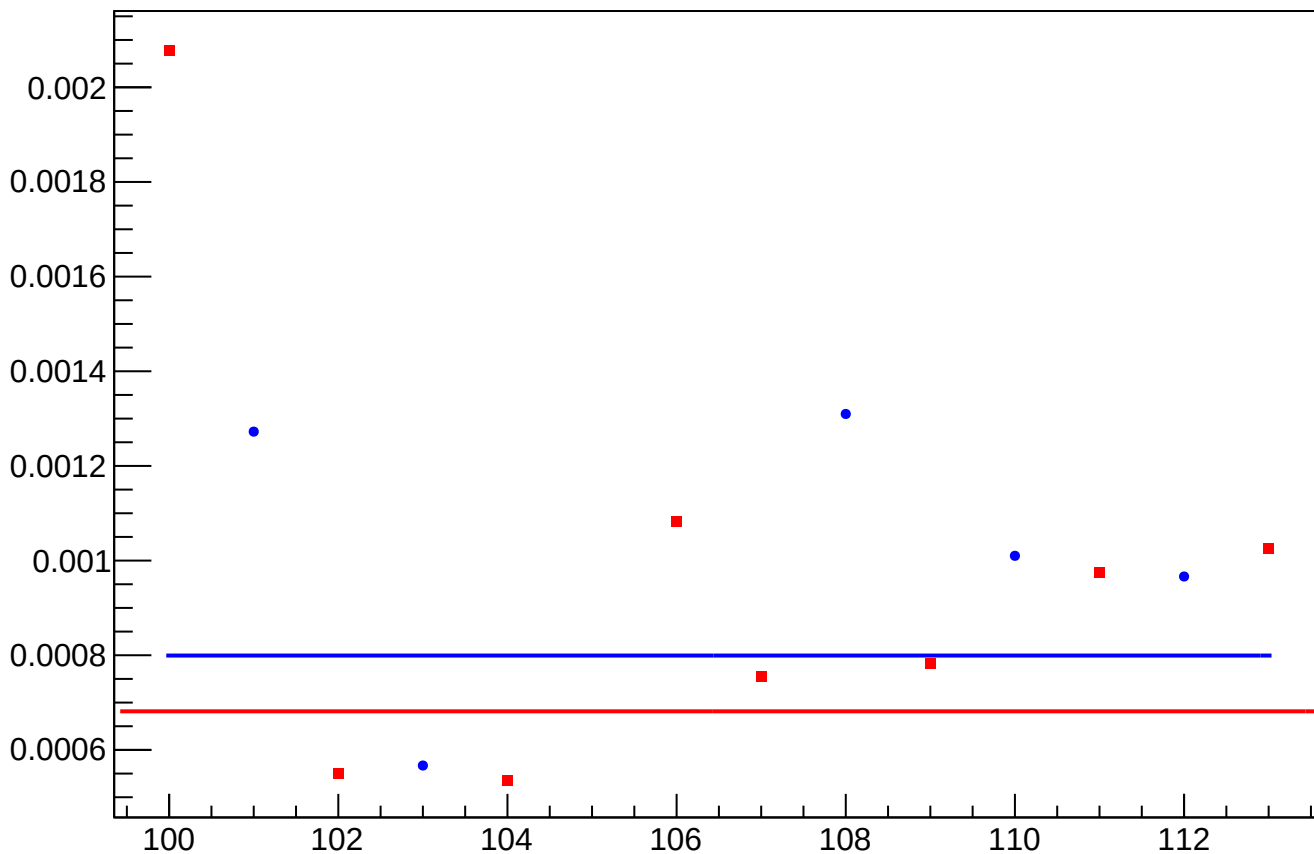
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 529967.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 513777.1/7

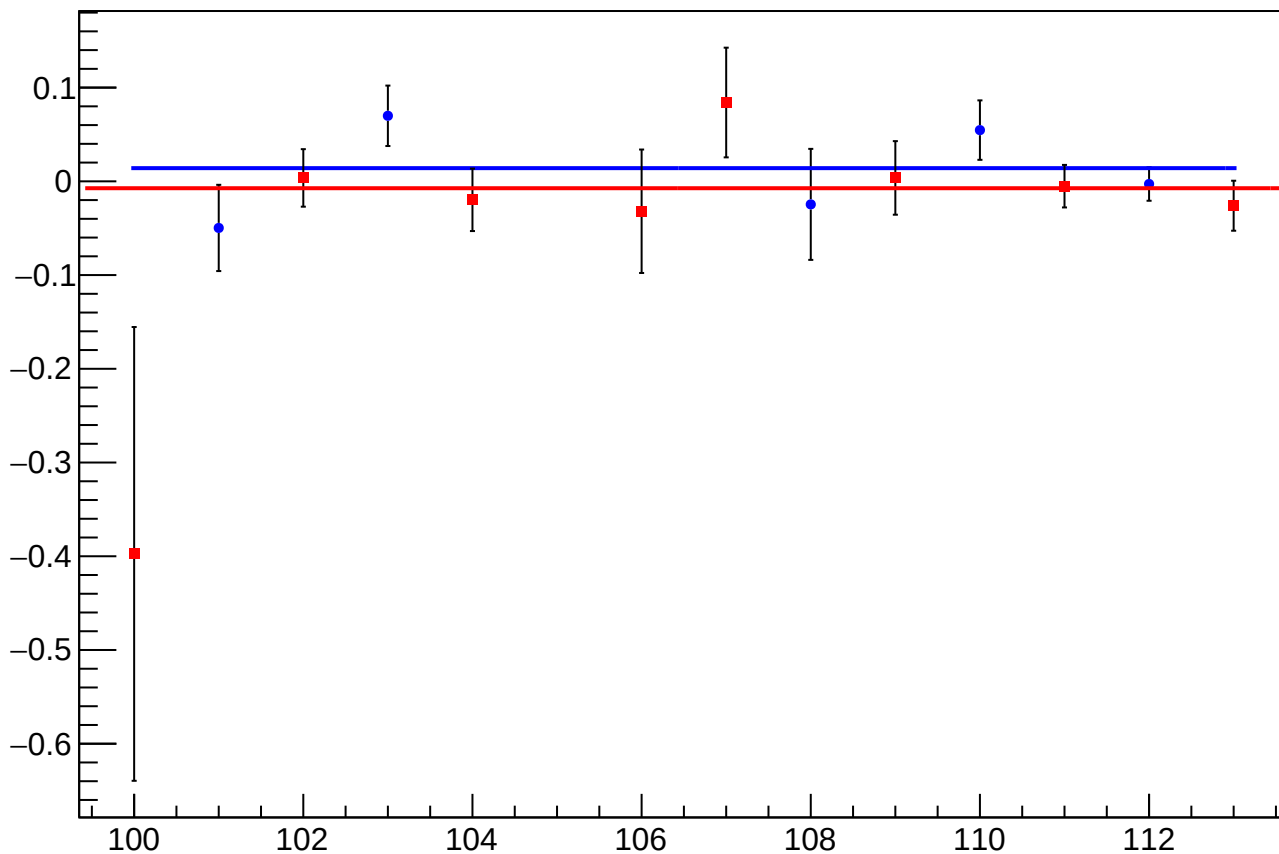
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1104676.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.014 $\pm$ 0.013  $\chi^2$ /NDF: 7.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.007 $\pm$ 0.012  $\chi^2$ /NDF: 6.0/7

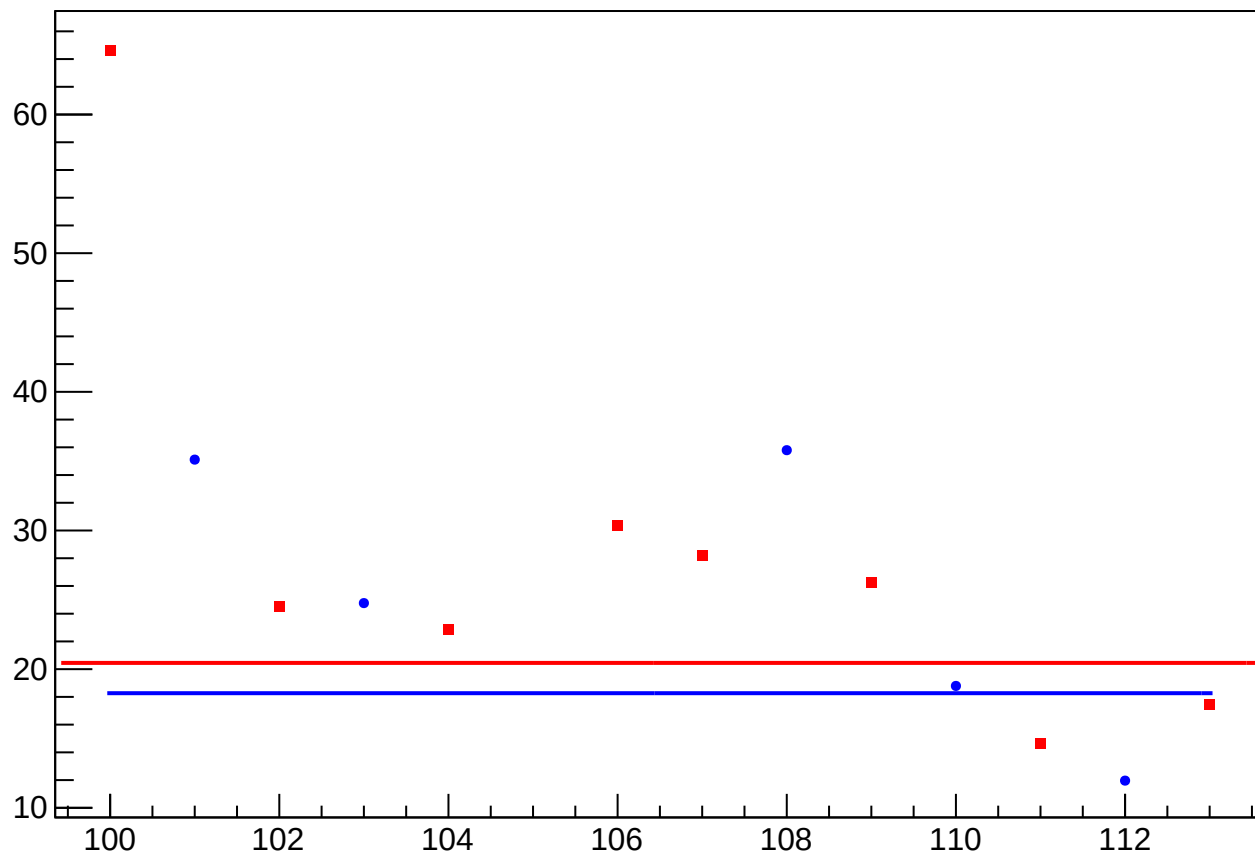
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.009  $\chi^2$ /NDF: 15.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 18.267+/-0.009  $\chi^2/\text{NDF}$ : 773941.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.451+/-0.009  $\chi^2/\text{NDF}$ : 394425.9/7

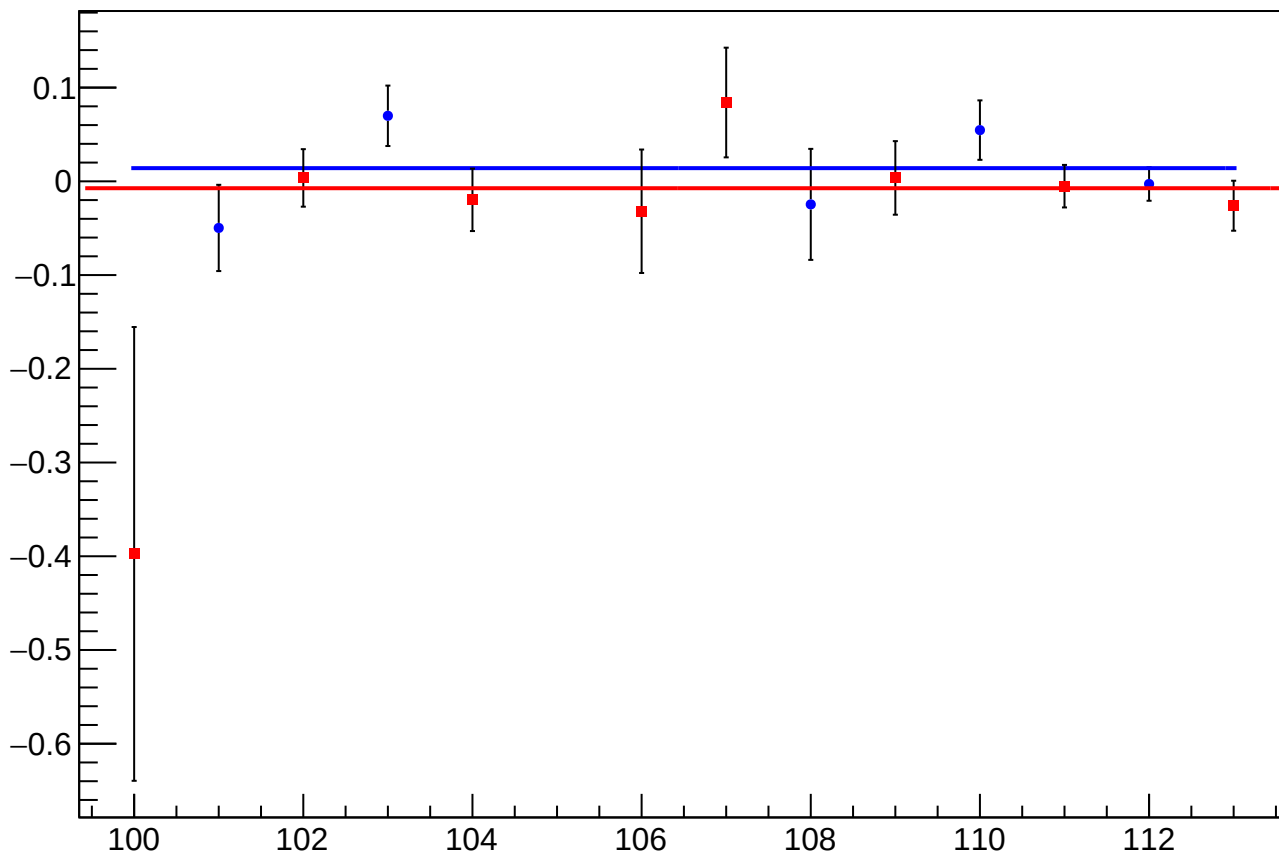
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.417+/-0.006  $\chi^2/\text{NDF}$ : 1197723.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.014 $\pm$ 0.013  $\chi^2$ /NDF: 7.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.007 $\pm$ 0.012  $\chi^2$ /NDF: 6.0/7

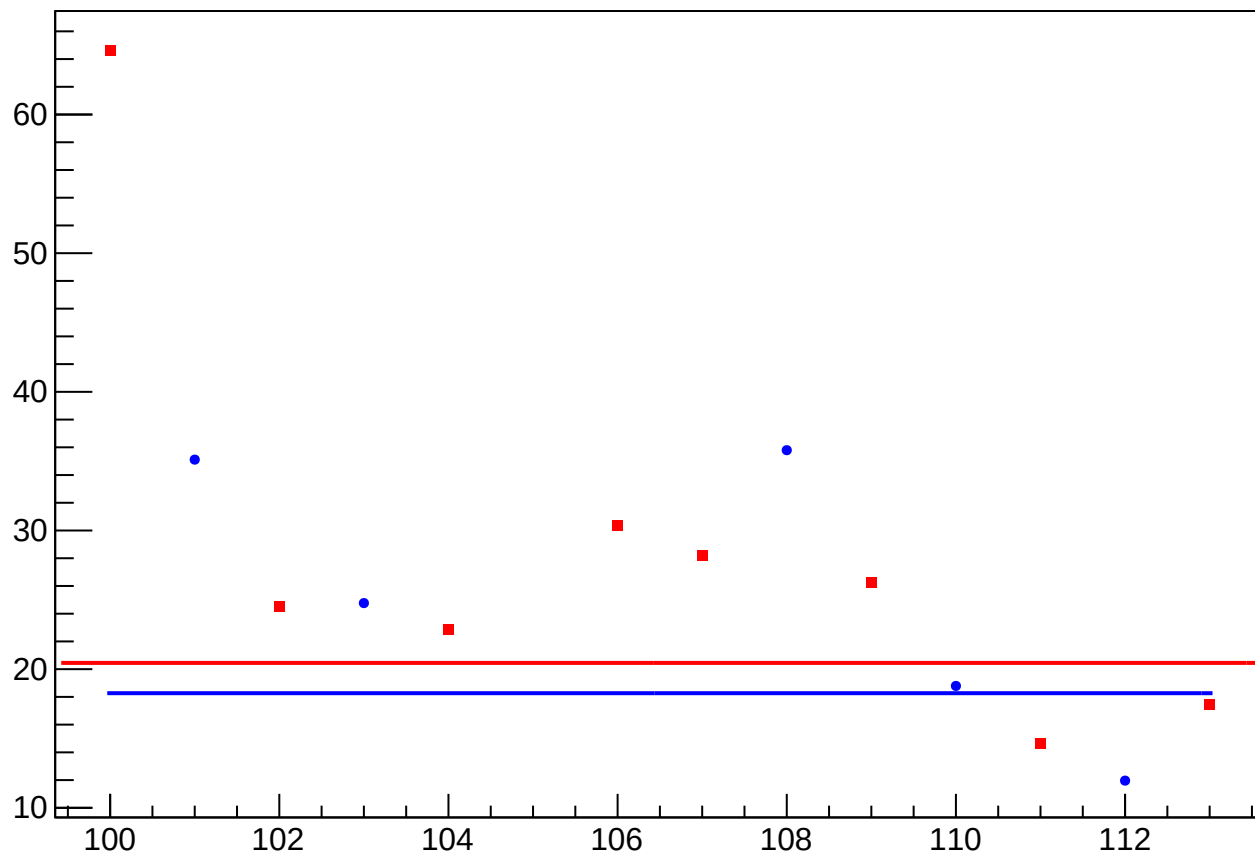
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.009  $\chi^2$ /NDF: 15.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 18.267+/-0.009  $\chi^2/\text{NDF}$ : 773941.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.451+/-0.009  $\chi^2/\text{NDF}$ : 394425.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

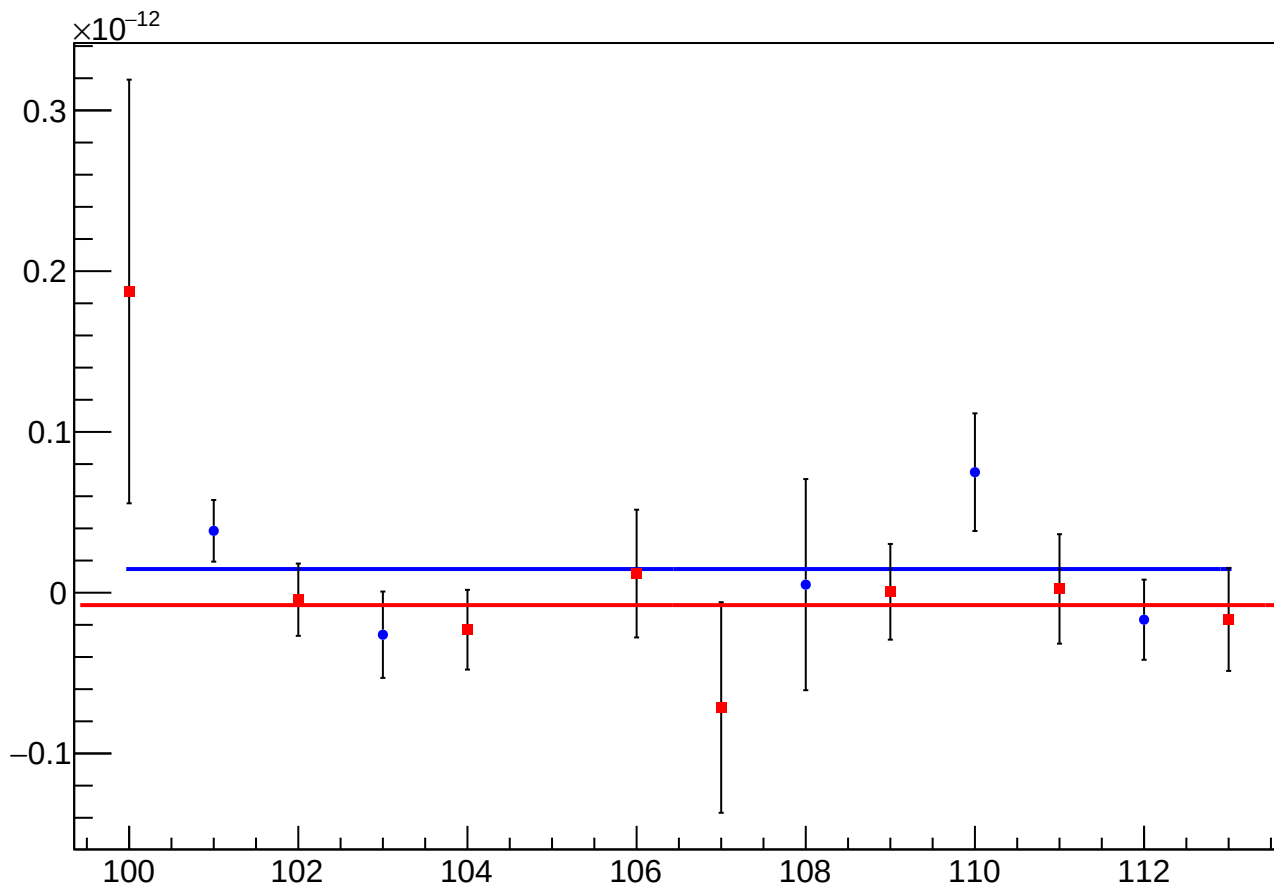
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.417+/-0.006  $\chi^2/\text{NDF}$ : 1197723.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1548\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.0/7

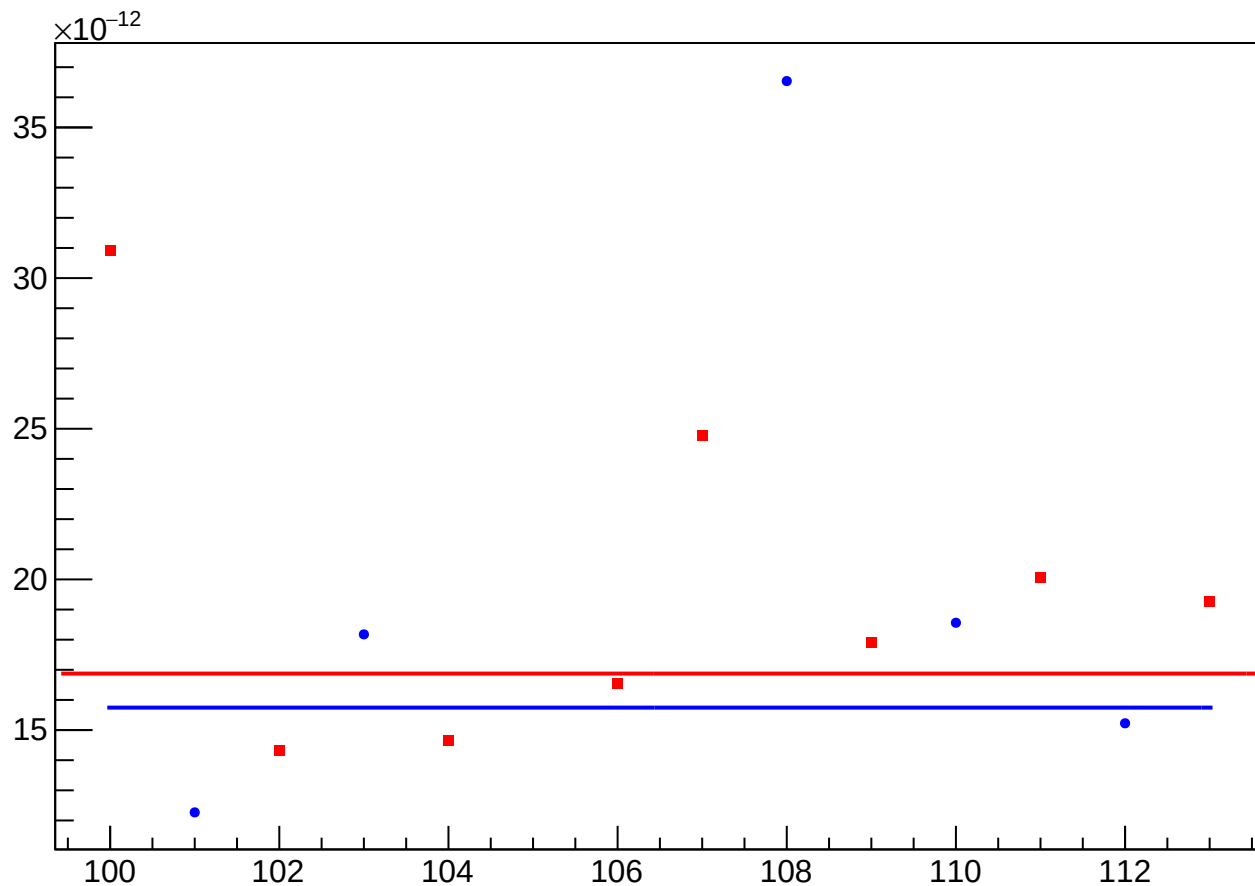
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 295399.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 125244.4/7

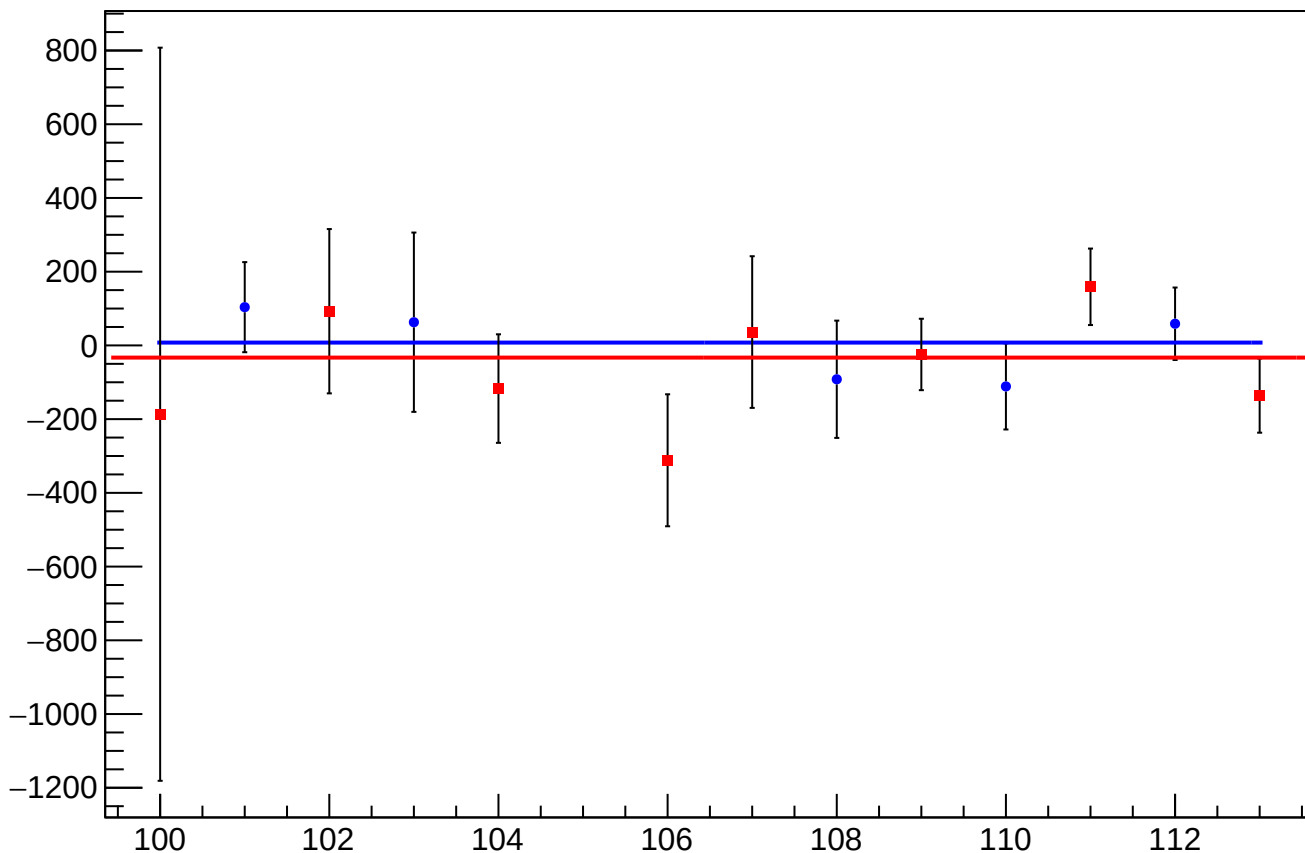
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 429662.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: 7.672 $\pm$ 57.705  $\chi^2$ /NDF: 2.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -33.046 $\pm$ 48.769  $\chi^2$ /NDF: 7.7/7

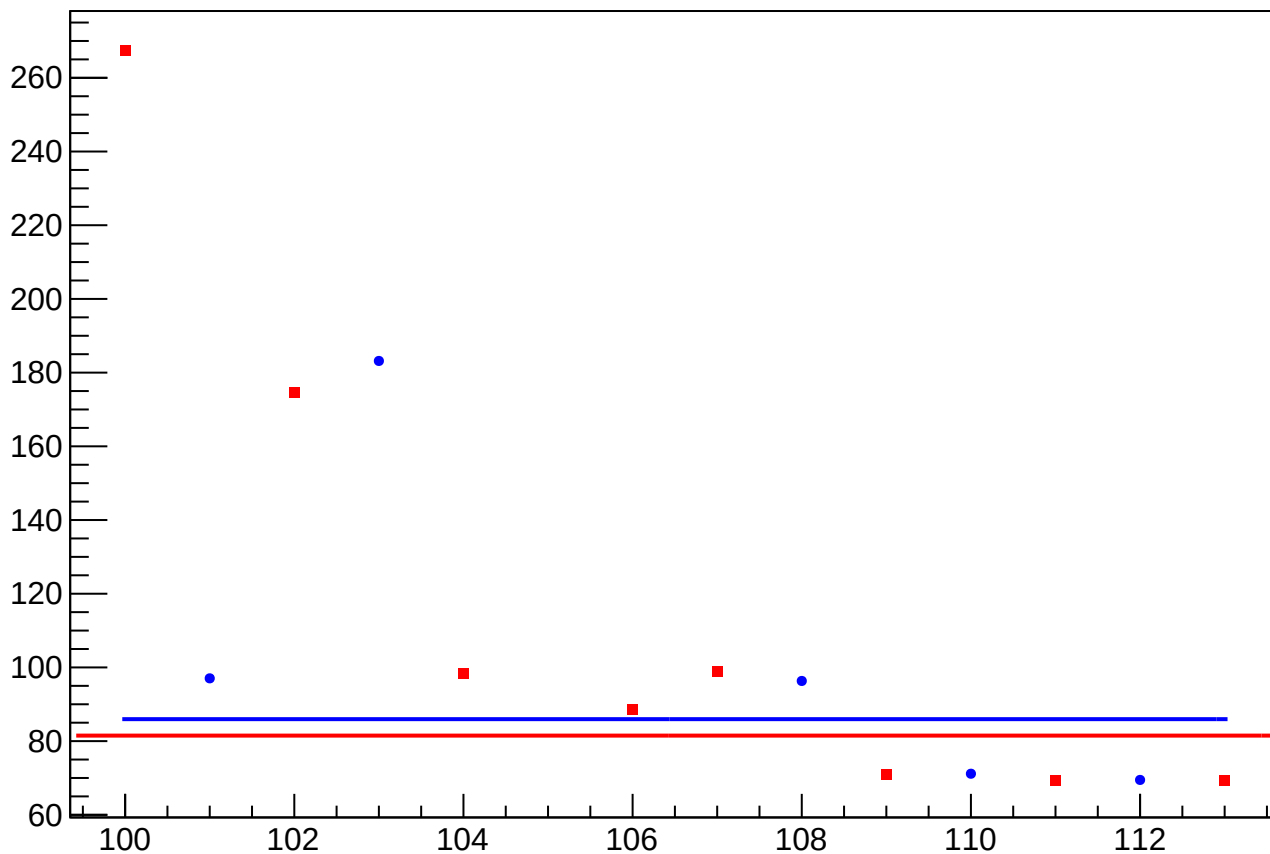
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -16.081 $\pm$ 37.248  $\chi^2$ /NDF: 10.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 85.963+/-0.041  $\chi^2/\text{NDF}$ : 432904.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 81.498+/-0.034  $\chi^2/\text{NDF}$ : 543783.4/7

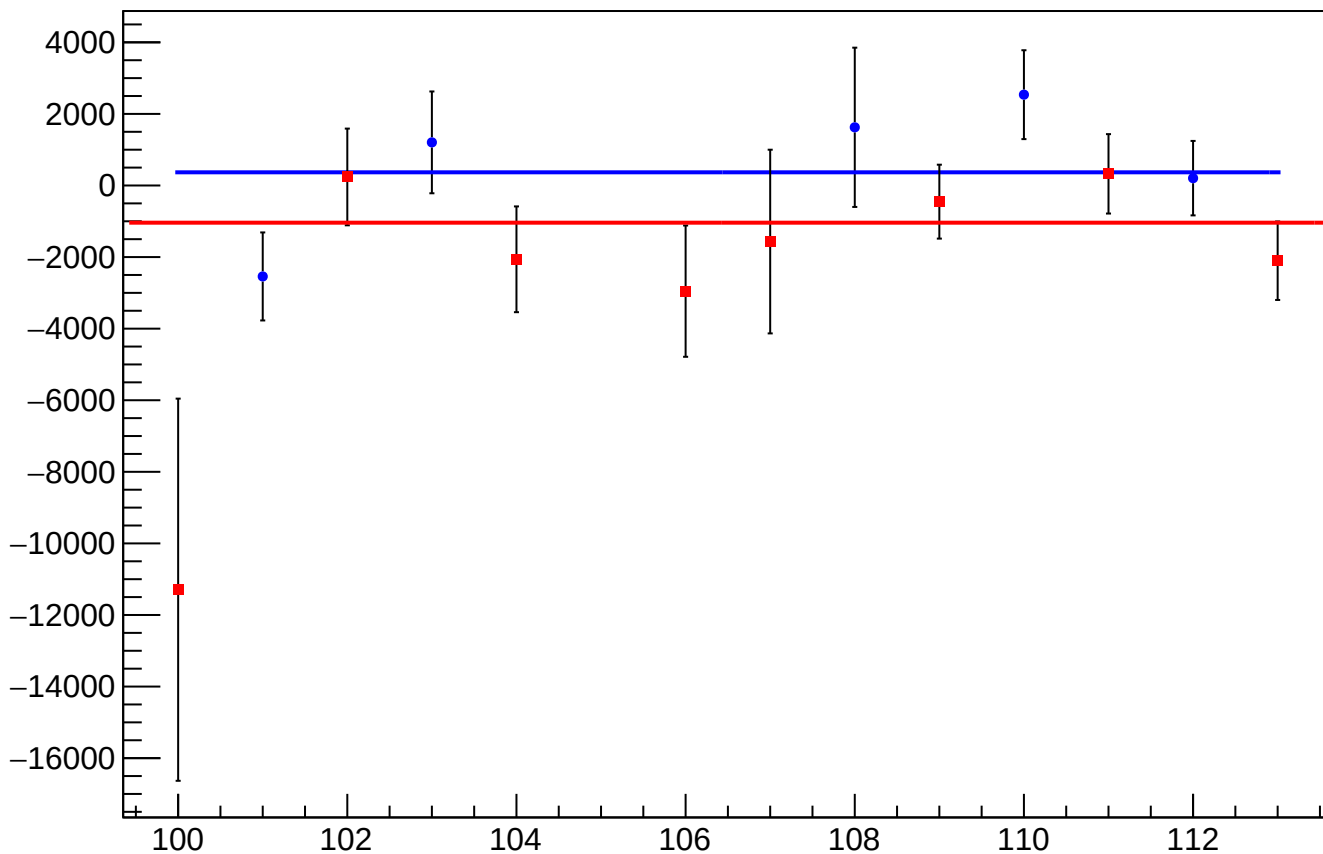
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 83.358+/-0.026  $\chi^2/\text{NDF}$ : 983671.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_reg\_correction\_mean vs Slug



Right In: 368.148+/-584.136  $\chi^2/\text{NDF}$ : 9.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1039.164+/-495.583  $\chi^2/\text{NDF}$ : 9.0/7

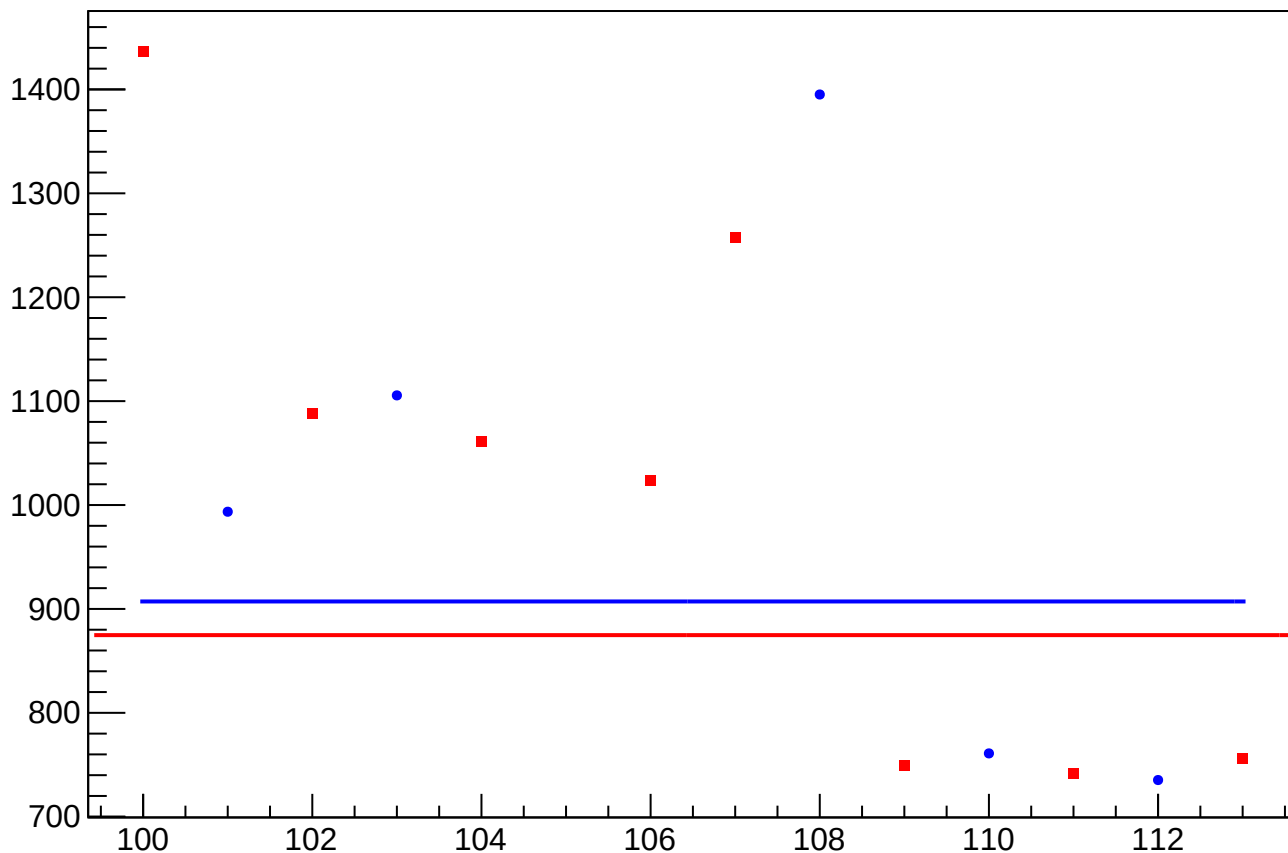
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -450.158+/-377.902  $\chi^2/\text{NDF}$ : 21.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3748\_avg\_reg\_correction\_rms vs Slug



Right In: 907.191+/-0.413  $\chi^2/\text{NDF}$ : 227280.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 874.792+/-0.350  $\chi^2/\text{NDF}$ : 243280.9/7

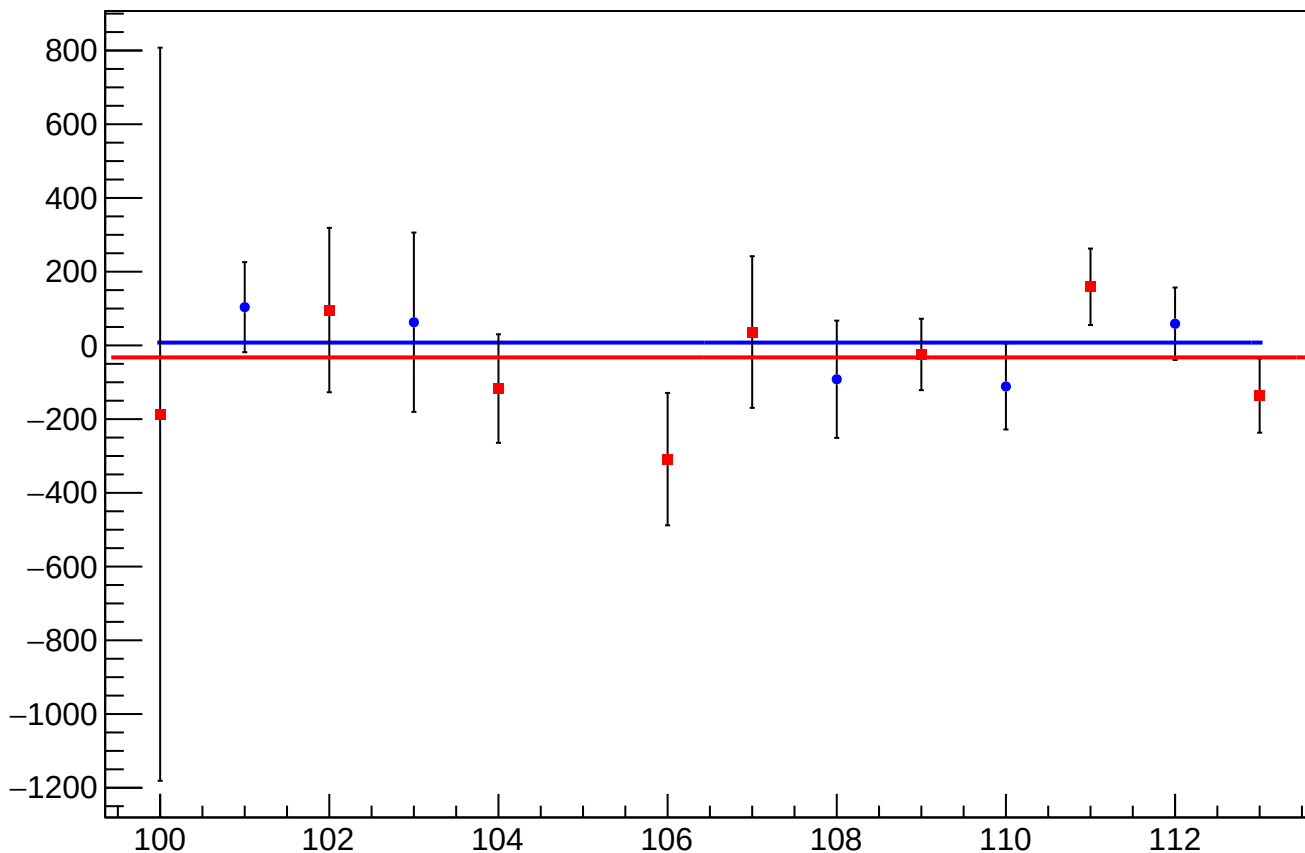
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 888.352+/-0.267  $\chi^2/\text{NDF}$ : 474138.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: 7.651+/-57.705  $\chi^2/\text{NDF}$ : 2.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32.538+/-48.781  $\chi^2/\text{NDF}$ : 7.6/7

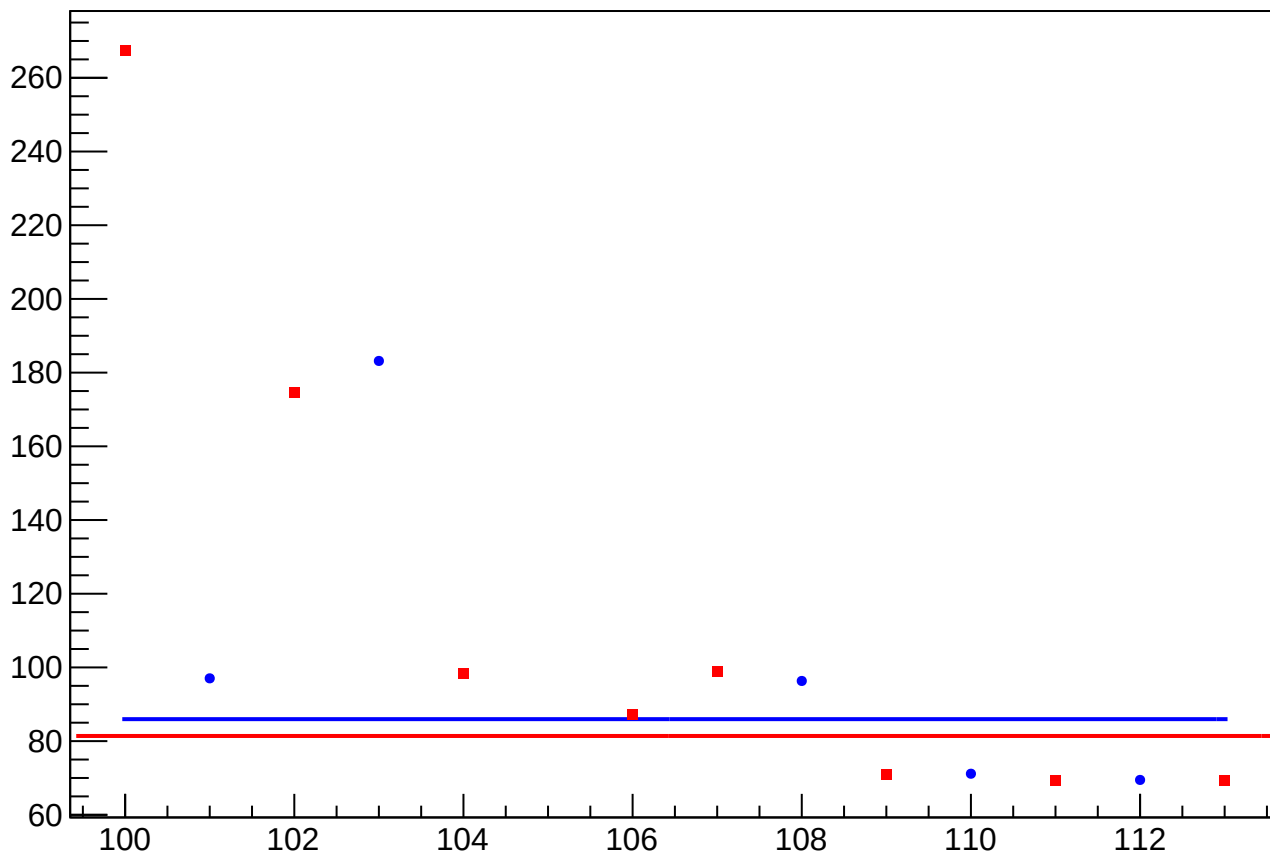
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -15.788+/-37.254  $\chi^2/\text{NDF}$ : 10.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 85.963+/-0.041  $\chi^2/\text{NDF}$ : 432907.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 81.398+/-0.034  $\chi^2/\text{NDF}$ : 542942.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

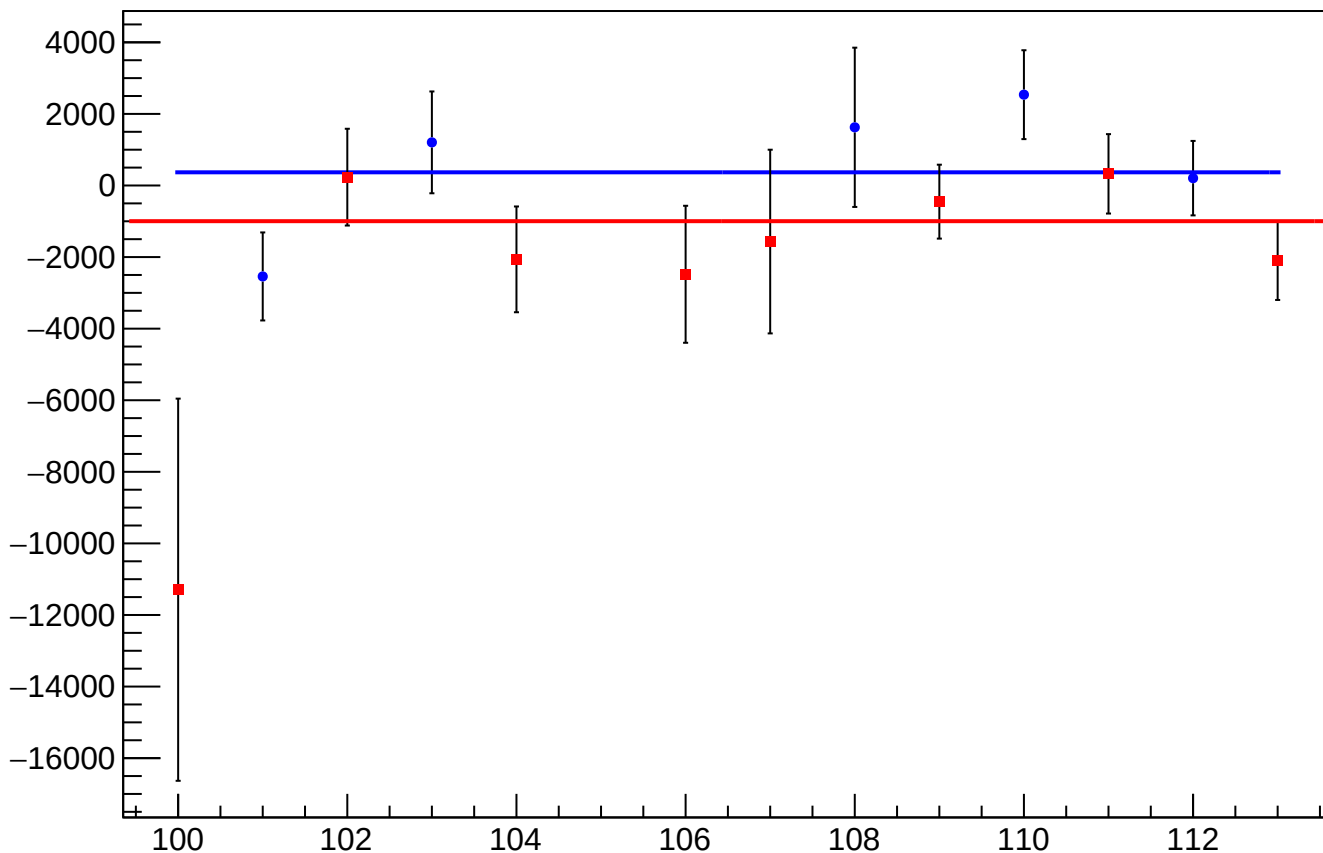
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 83.300+/-0.026  $\chi^2/\text{NDF}$ : 983149.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_3748\_avg\_cor\_correction\_mean vs Slug



Right In: 368.122+/-584.146  $\chi^2/\text{NDF}$ : 9.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -997.043+/-497.113  $\chi^2/\text{NDF}$ : 8.4/7

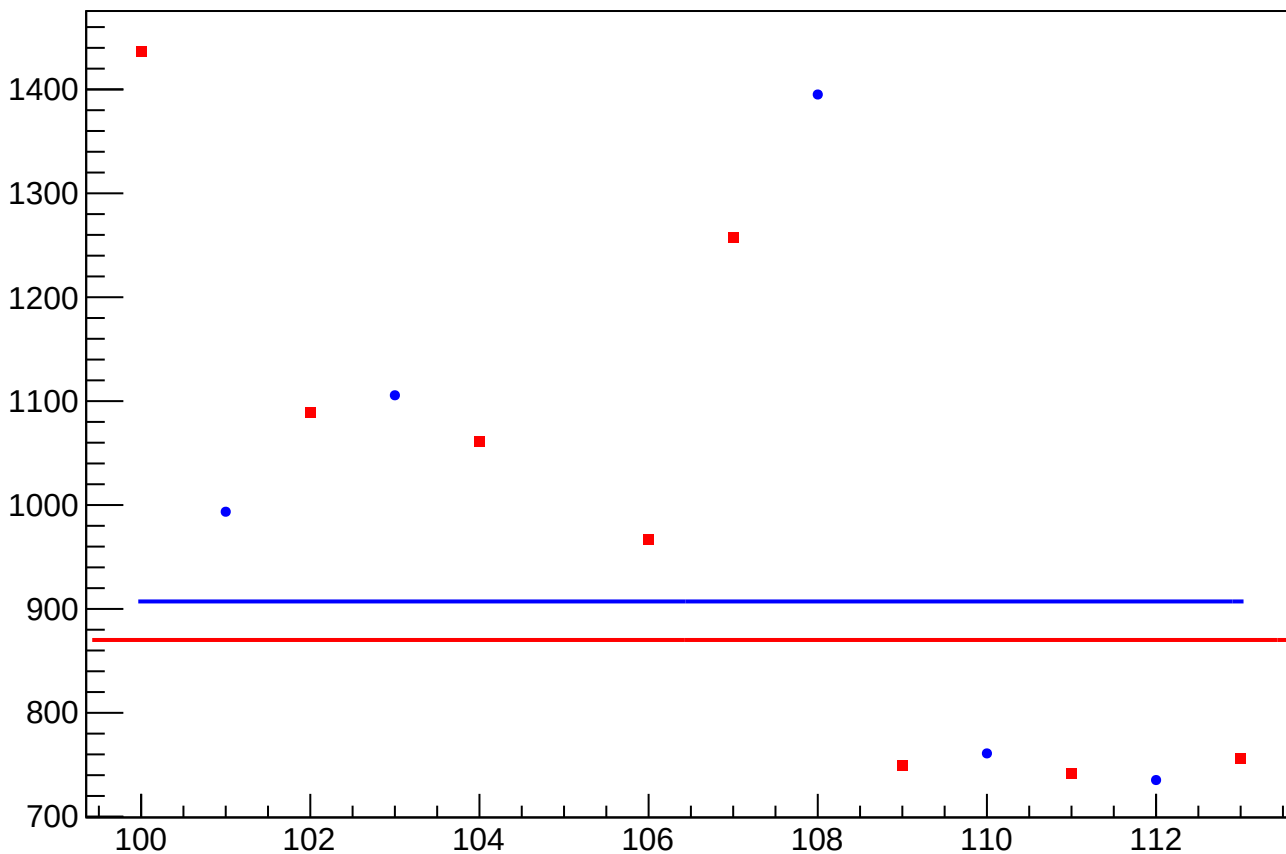
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -423.638+/-378.582  $\chi^2/\text{NDF}$ : 20.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_cor\_correction\_rms vs Slug



Right In: 907.203 $\pm$ 0.413  $\chi^2$ /NDF: 227315.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 870.124 $\pm$ 0.352  $\chi^2$ /NDF: 234823.2/7

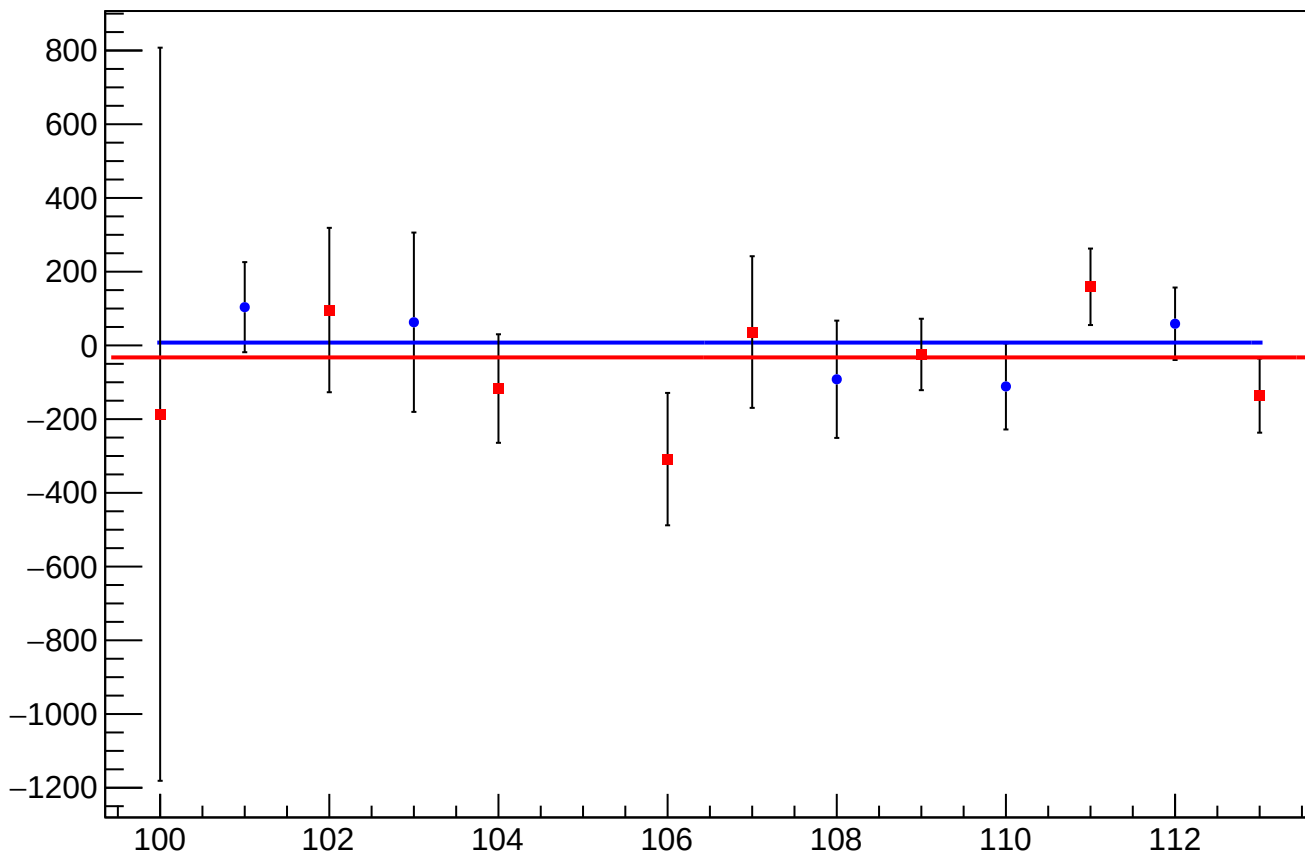
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 885.698 $\pm$ 0.268  $\chi^2$ /NDF: 466812.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: 7.651 +/- 57.705  $\chi^2/\text{NDF}$ : 2.4/4

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32.538 +/- 48.781  $\chi^2/\text{NDF}$ : 7.6/7

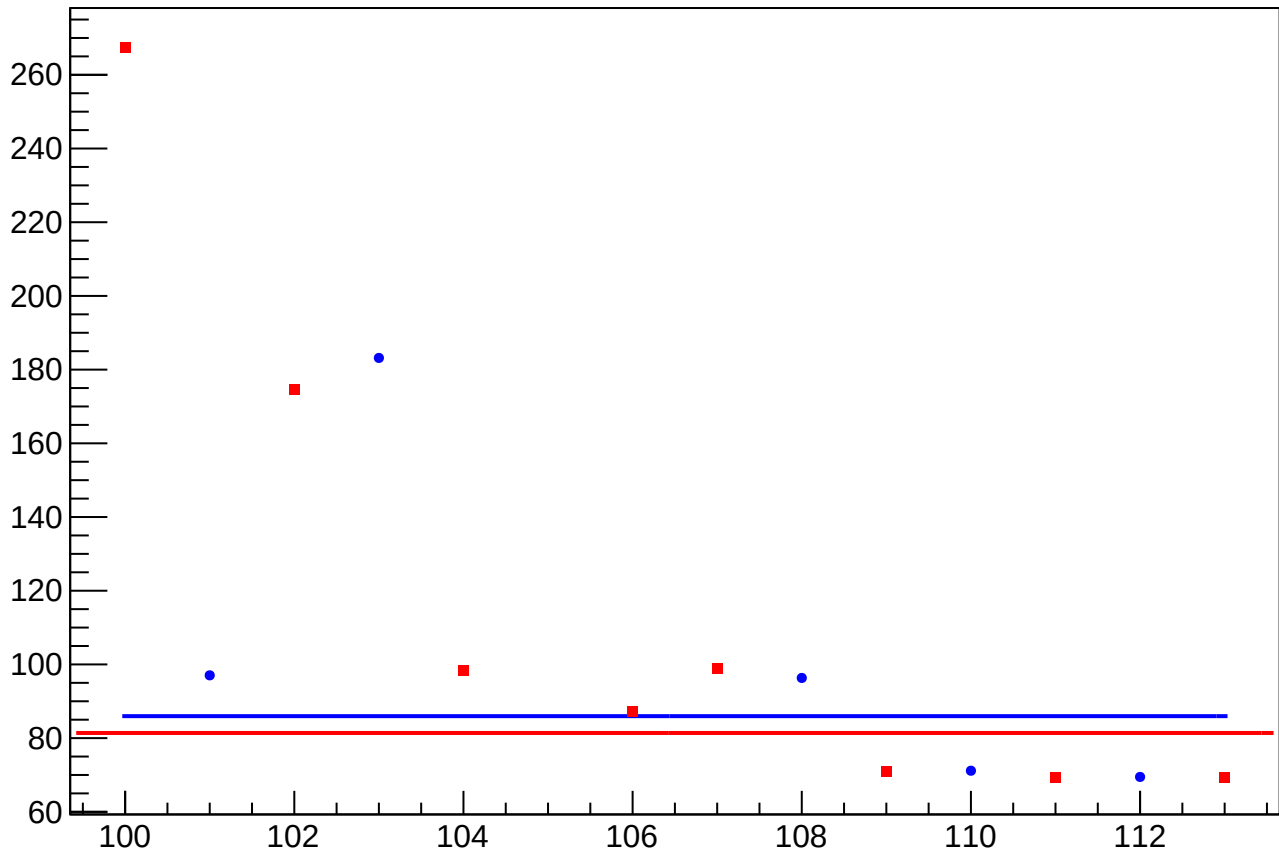
Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -15.788 +/- 37.254  $\chi^2/\text{NDF}$ : 10.3/12

- sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 85.963 $\pm$ 0.041  $\chi^2$ /NDF: 432907.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 81.398 $\pm$ 0.034  $\chi^2$ /NDF: 542942.2/7

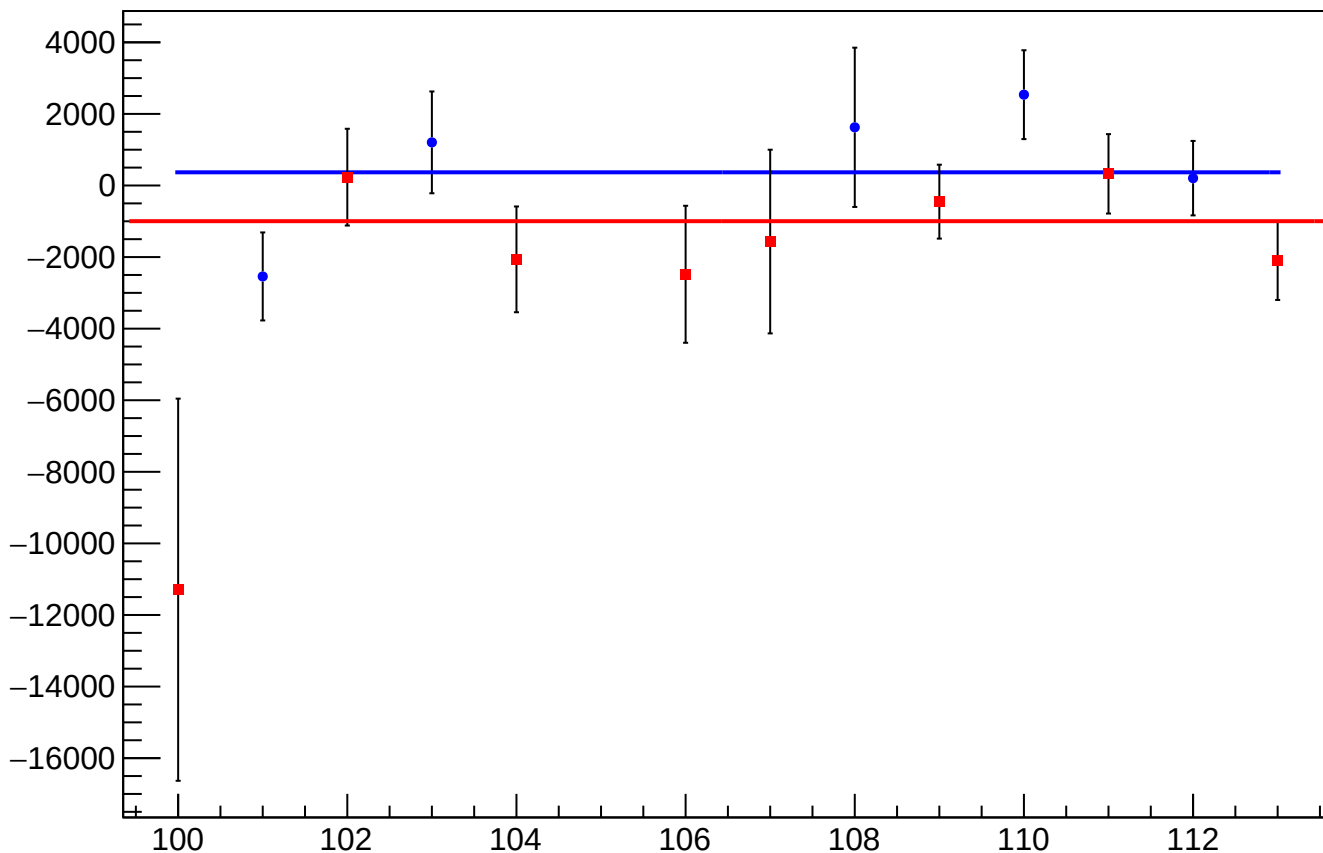
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 83.300 $\pm$ 0.026  $\chi^2$ /NDF: 983149.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 368.122+/-584.146  $\chi^2/\text{NDF}$ : 9.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -997.043+/-497.113  $\chi^2/\text{NDF}$ : 8.4/7

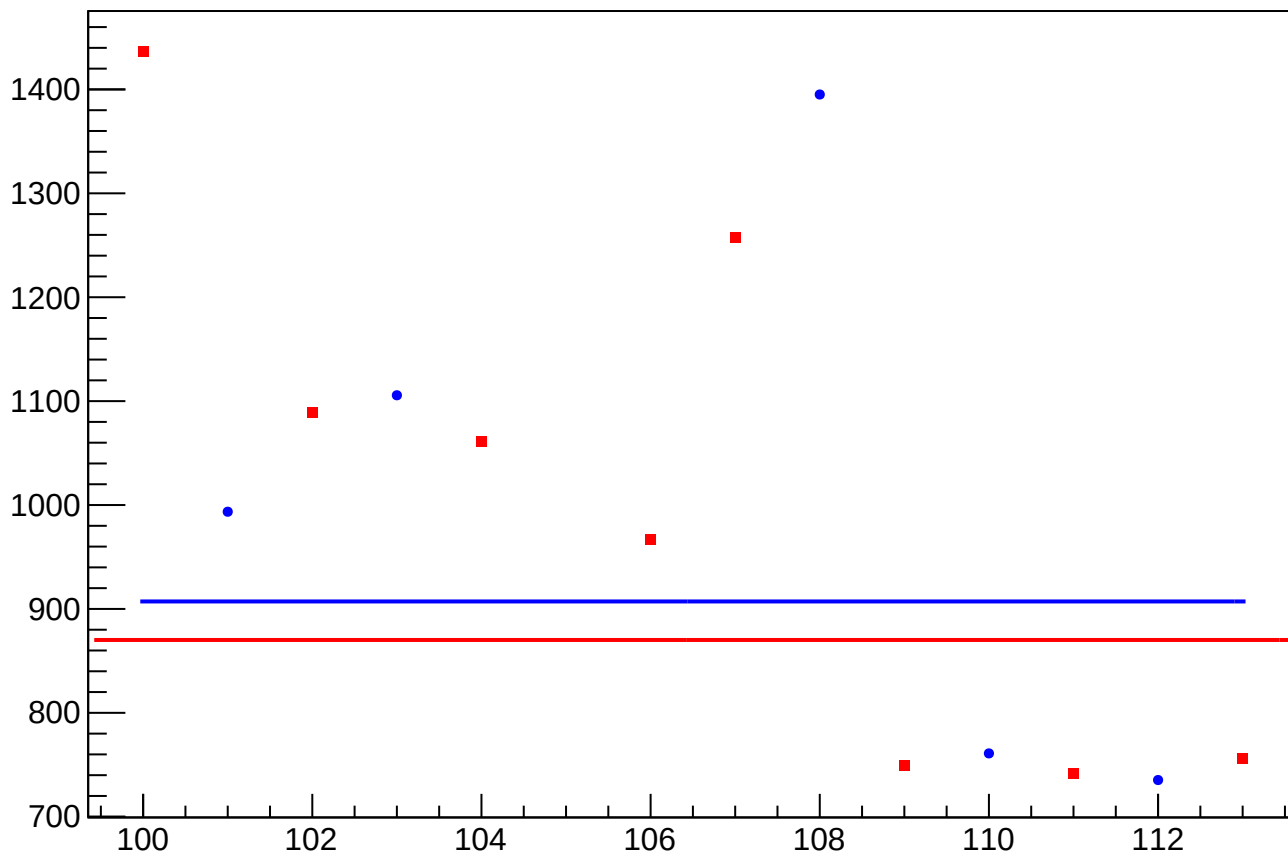
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -423.638+/-378.582  $\chi^2/\text{NDF}$ : 20.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 907.203+/-0.413  $\chi^2/\text{NDF}$ : 227315.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 870.124+/-0.352  $\chi^2/\text{NDF}$ : 234823.2/7

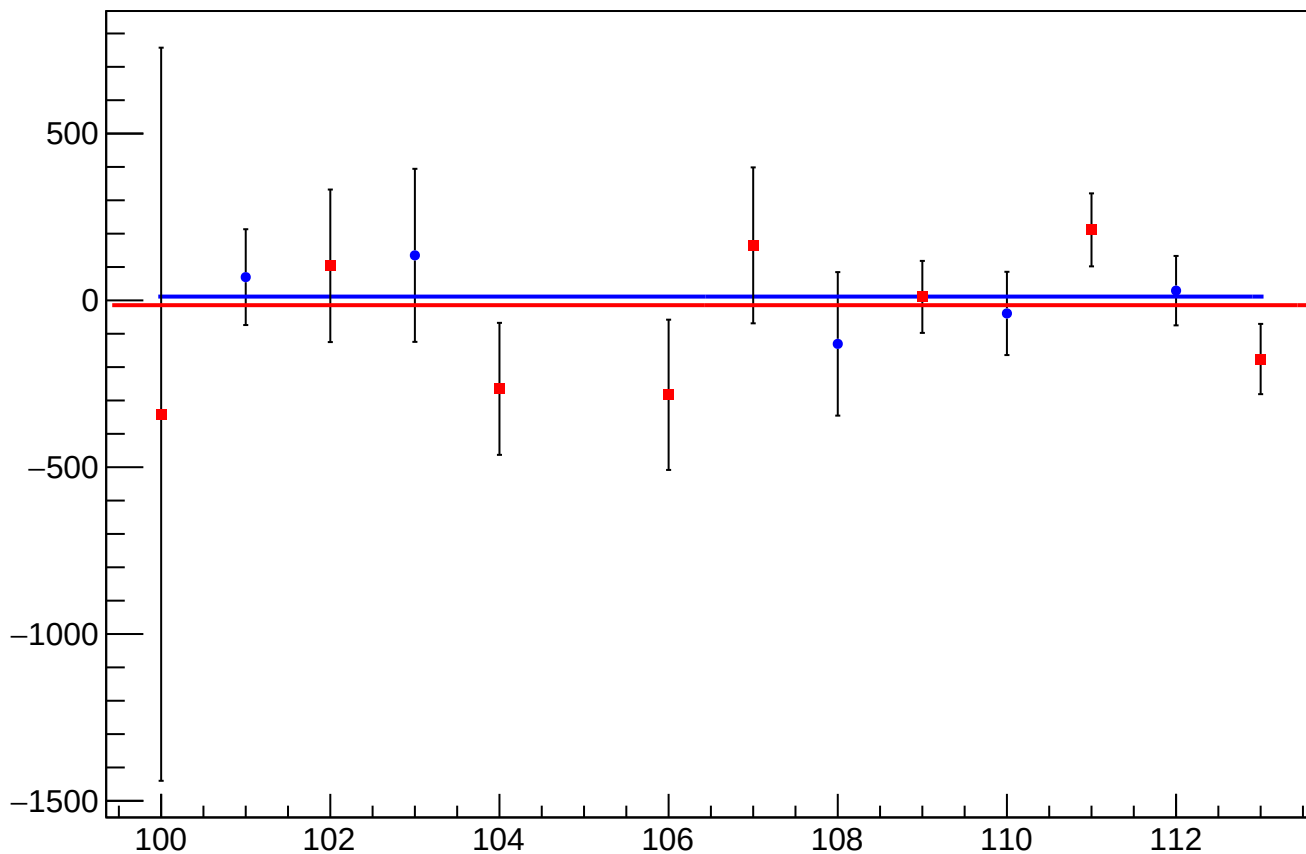
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 885.698+/-0.268  $\chi^2/\text{NDF}$ : 466812.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: 11.405 $\pm$ 64.340  $\chi^2$ /NDF: 1.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -14.361 $\pm$ 53.979  $\chi^2$ /NDF: 10.6/7

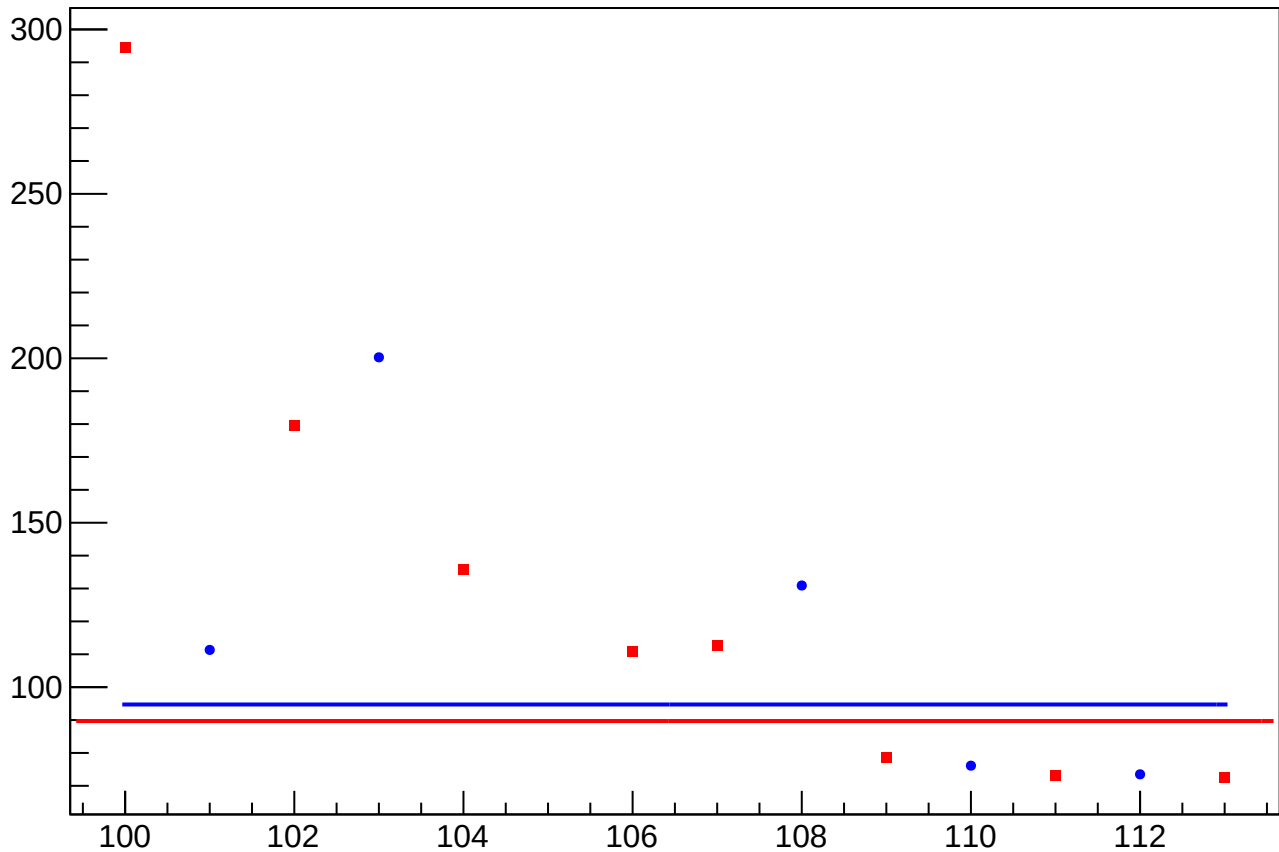
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.717 $\pm$ 41.353  $\chi^2$ /NDF: 11.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 94.733+/-0.045  $\chi^2/\text{NDF}$ : 542459.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 89.703+/-0.038  $\chi^2/\text{NDF}$ : 645530.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

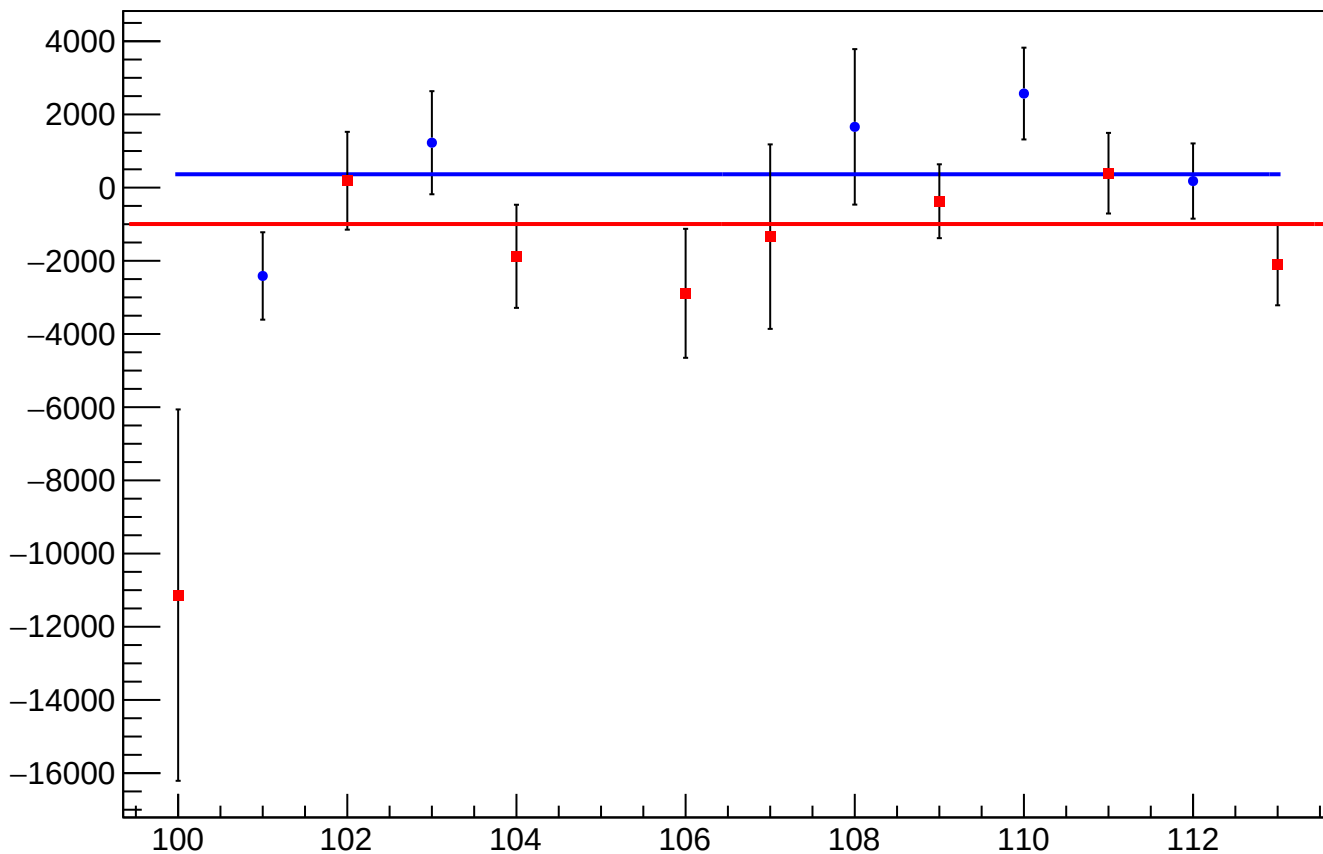
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 91.781+/-0.029  $\chi^2/\text{NDF}$ : 1195163.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_3748\_avg\_dit\_correction\_mean vs Slug



Right In: 364.747 $\pm$ 576.492  $\chi^2$ /NDF: 9.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -995.042 $\pm$ 487.503  $\chi^2$ /NDF: 9.3/7

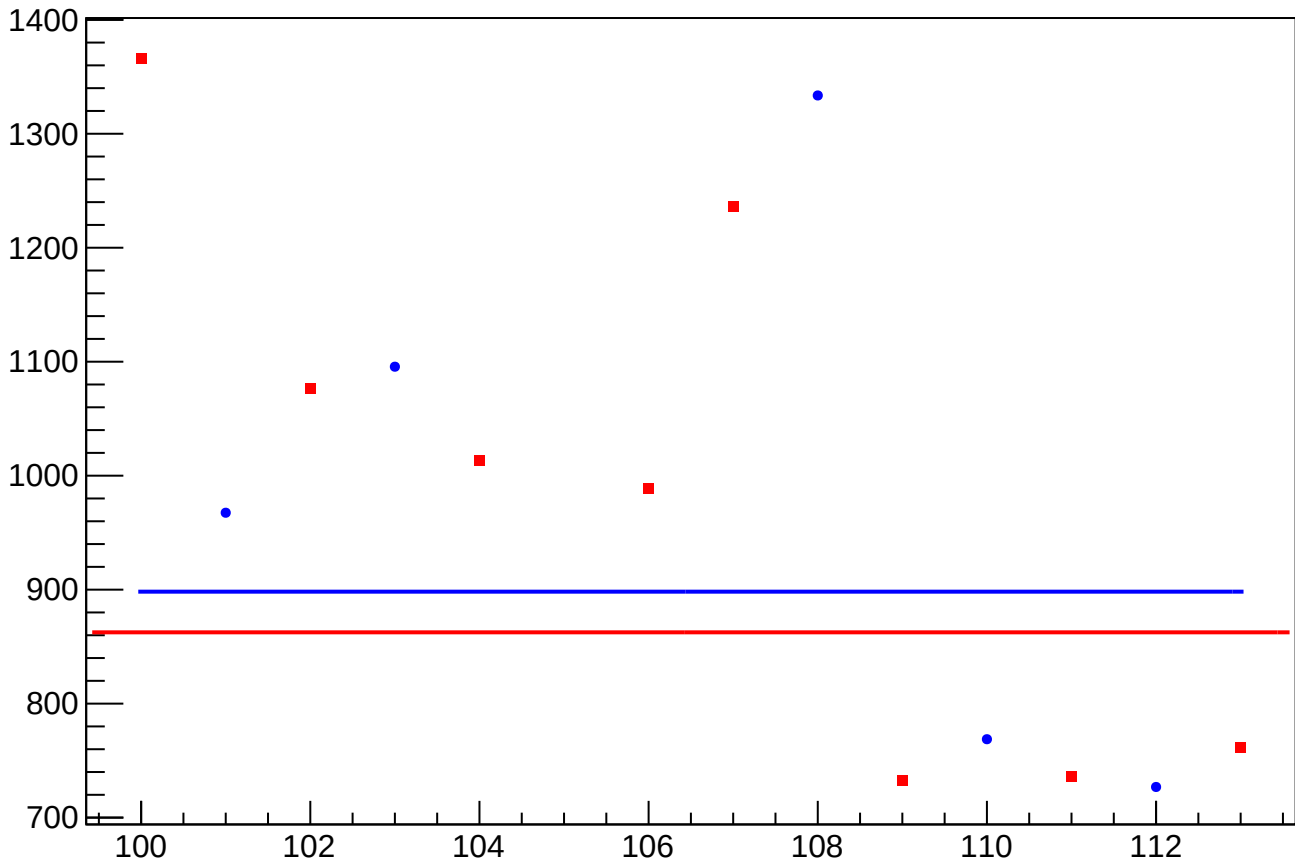
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -428.086 $\pm$ 372.248  $\chi^2$ /NDF: 21.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_3748\_avg\_dit\_correction\_rms vs Slug



Right In: 898.236+/-0.408  $\chi^2/\text{NDF}$ : 206850.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 862.556+/-0.345  $\chi^2/\text{NDF}$ : 224190.6/7

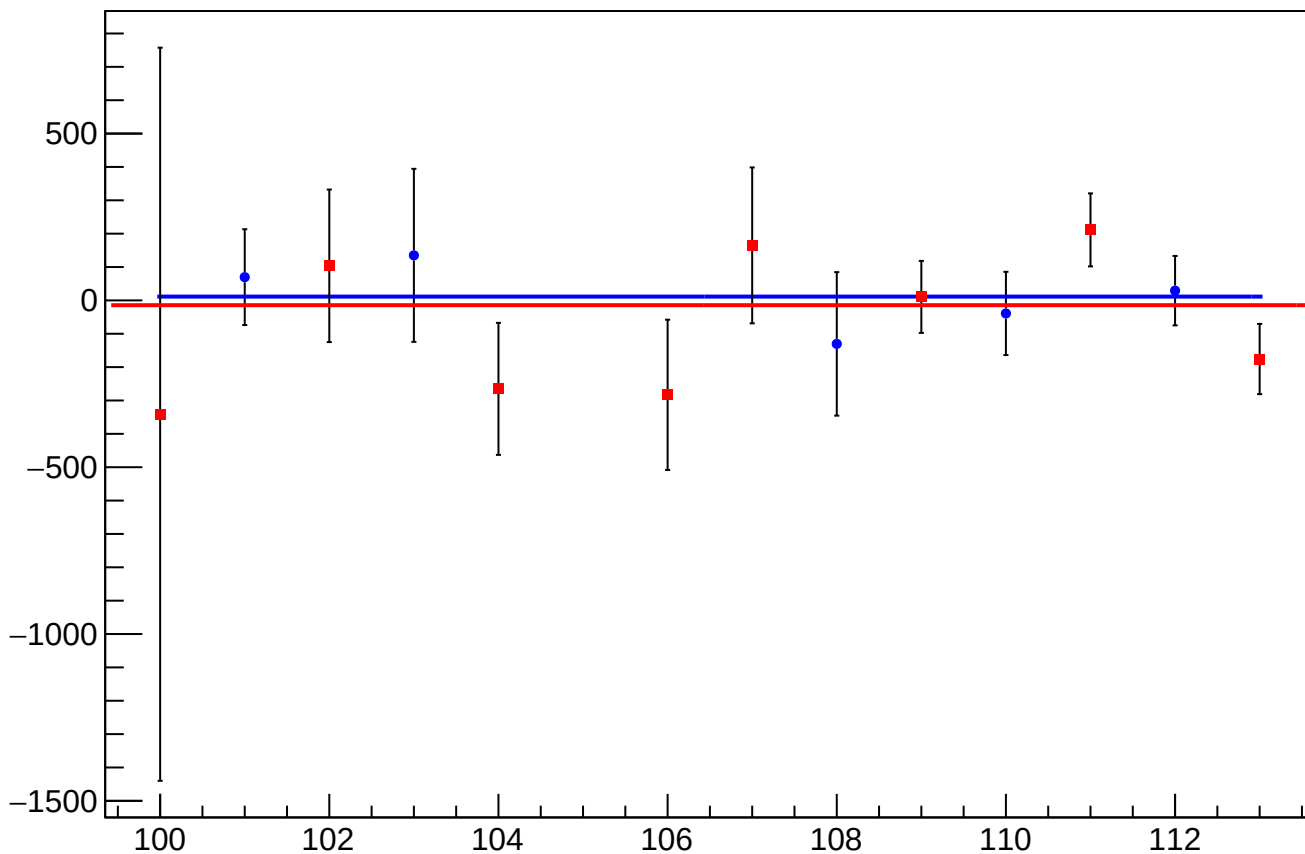
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 877.433+/-0.263  $\chi^2/\text{NDF}$ : 435507.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: 11.404 $\pm$ 64.340  $\chi^2$ /NDF: 1.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -14.359 $\pm$ 53.980  $\chi^2$ /NDF: 10.6/7

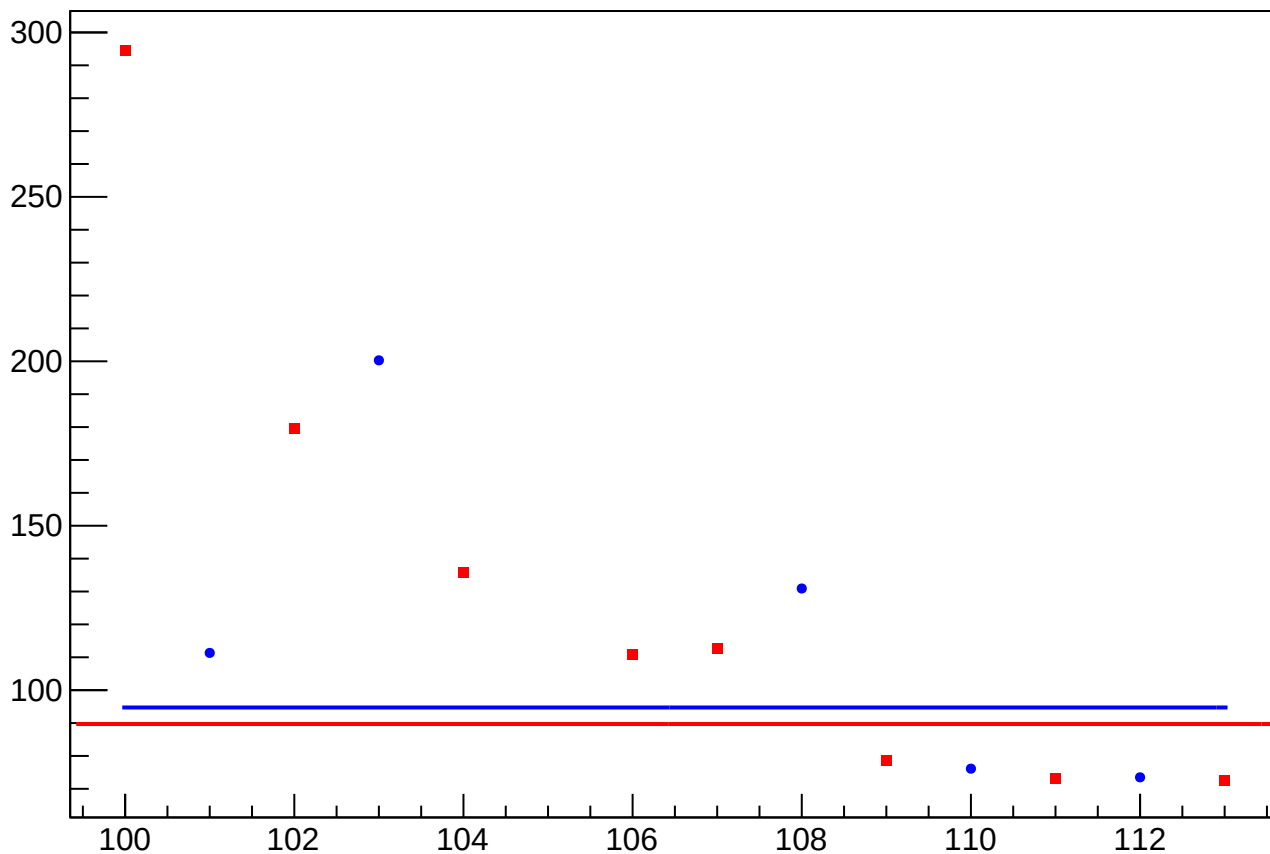
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.716 $\pm$ 41.353  $\chi^2$ /NDF: 11.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 94.733+/-0.045  $\chi^2/\text{NDF}$ : 542461.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 89.703+/-0.038  $\chi^2/\text{NDF}$ : 645532.6/7

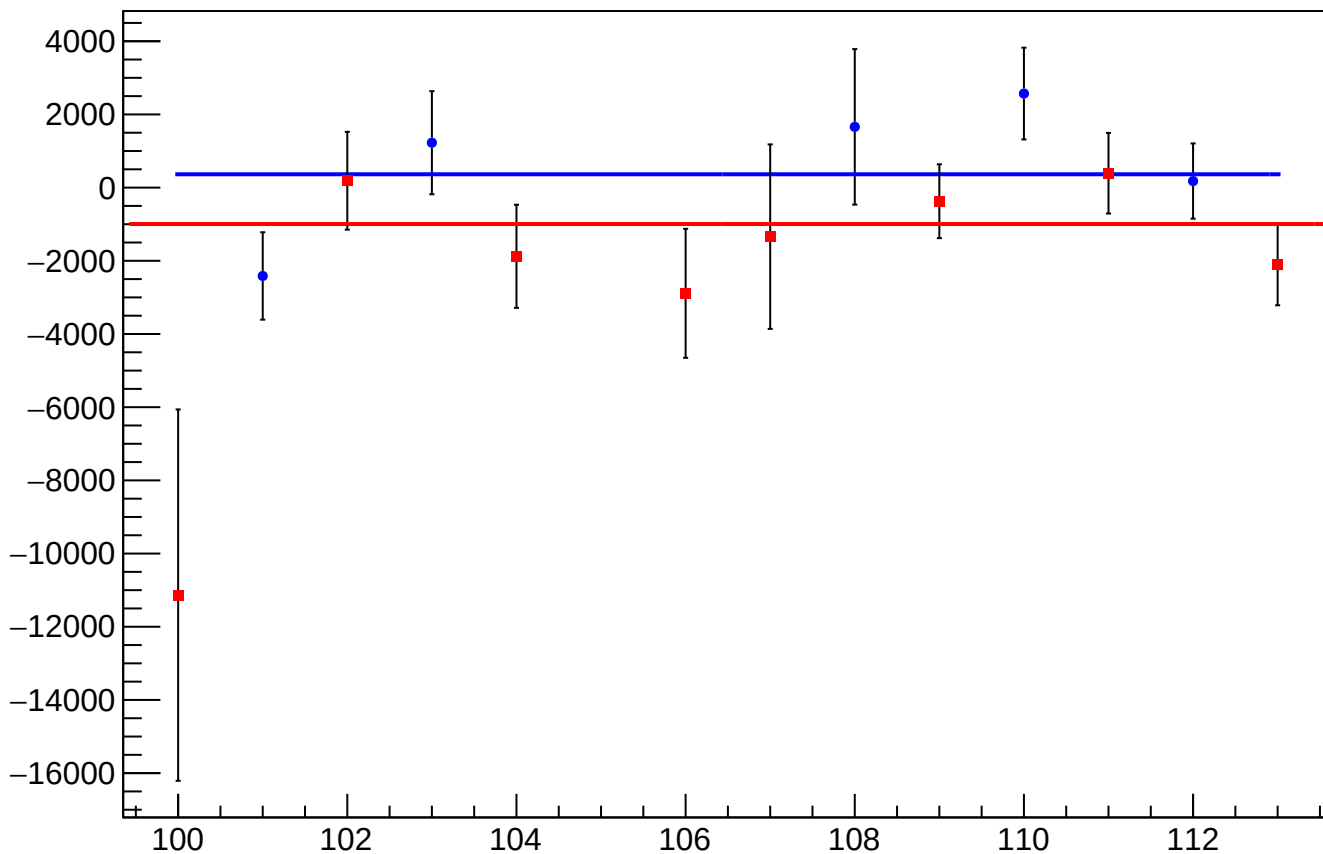
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 91.781+/-0.029  $\chi^2/\text{NDF}$ : 1195168.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 364.746 $\pm$ 576.491  $\chi^2$ /NDF: 9.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -995.040 $\pm$ 487.502  $\chi^2$ /NDF: 9.3/7

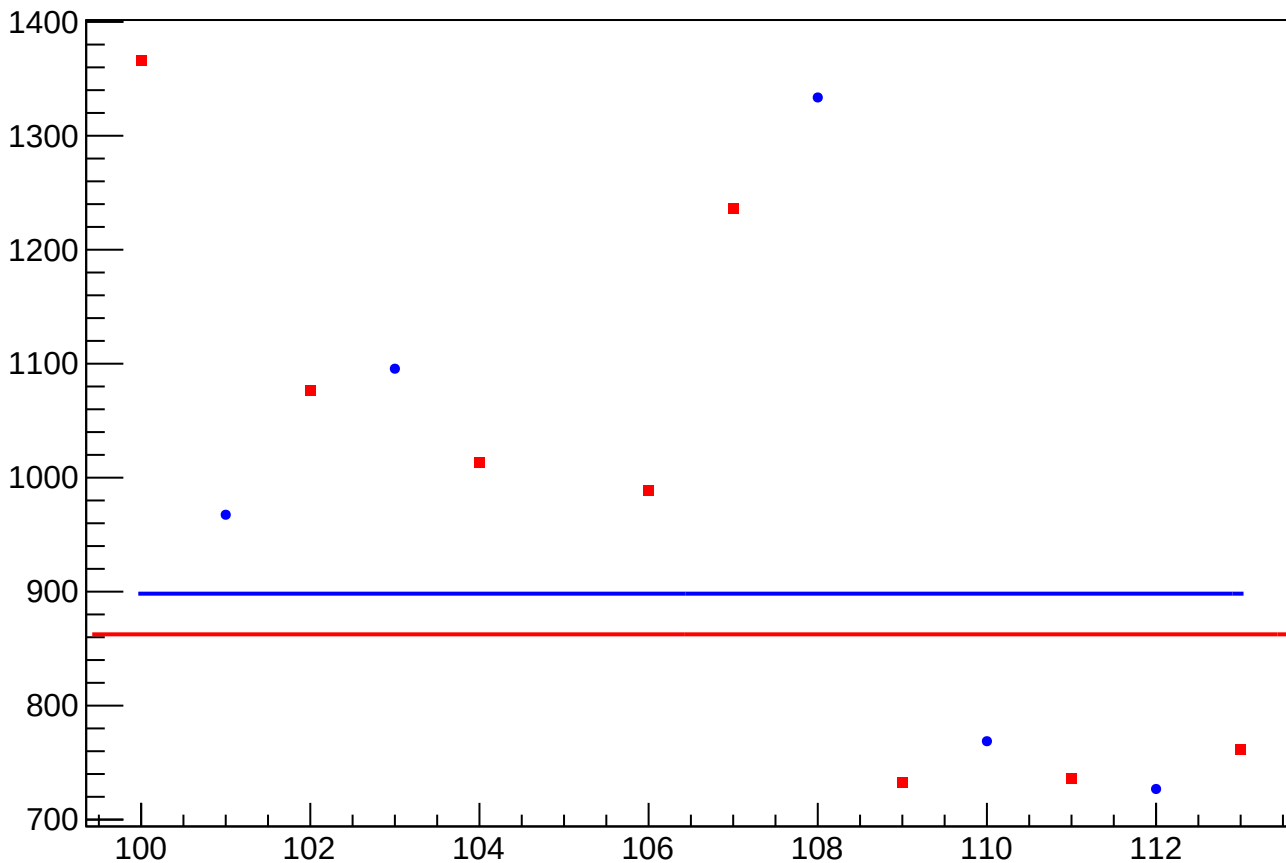
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -428.085 $\pm$ 372.247  $\chi^2$ /NDF: 21.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 898.234+/-0.408  $\chi^2/\text{NDF}$ : 206850.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 862.555+/-0.345  $\chi^2/\text{NDF}$ : 224190.9/7

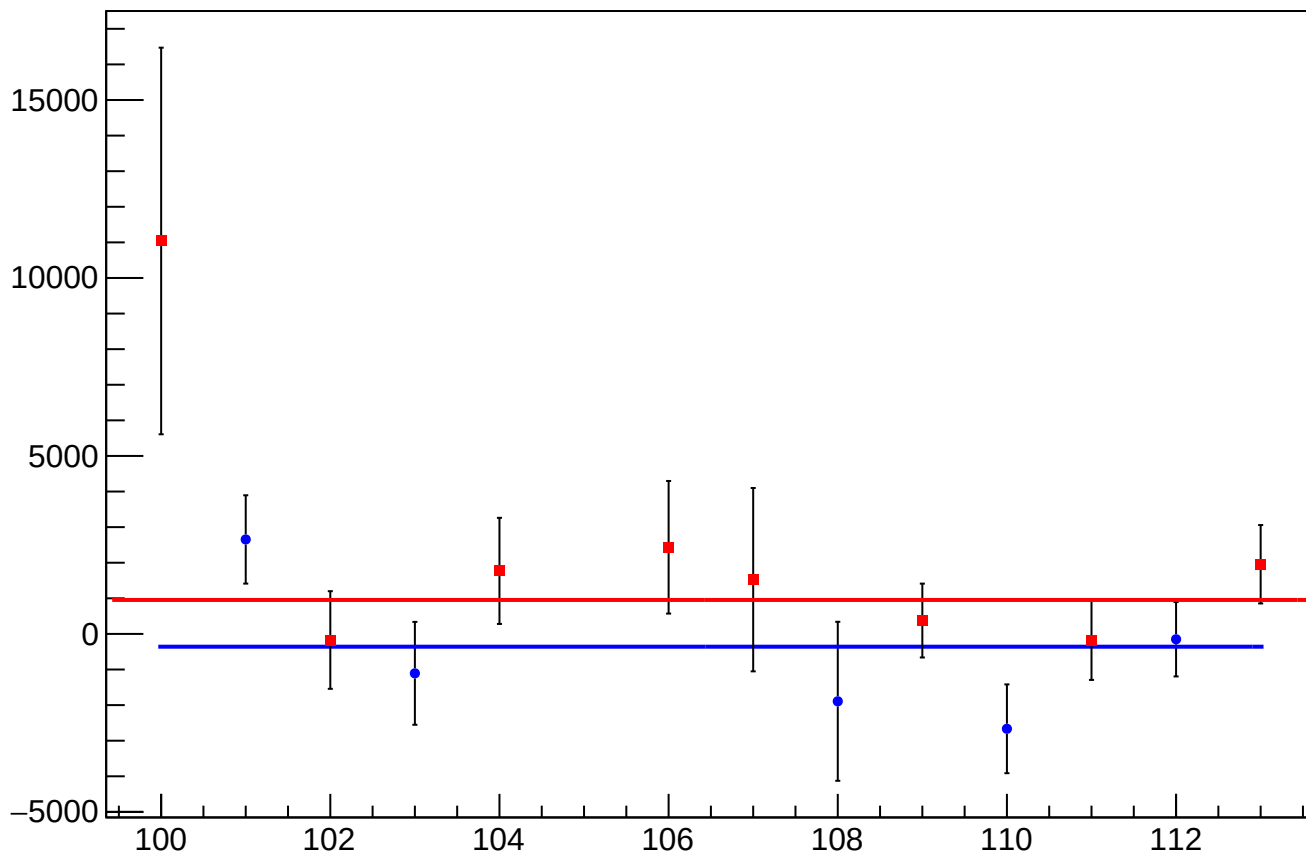
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 877.431+/-0.263  $\chi^2/\text{NDF}$ : 435508.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3748\_avg\_mean vs Slug



Right In: -358.977+/-588.496  $\chi^2/\text{NDF}$ : 10.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 954.348+/-499.174  $\chi^2/\text{NDF}$ : 7.3/7

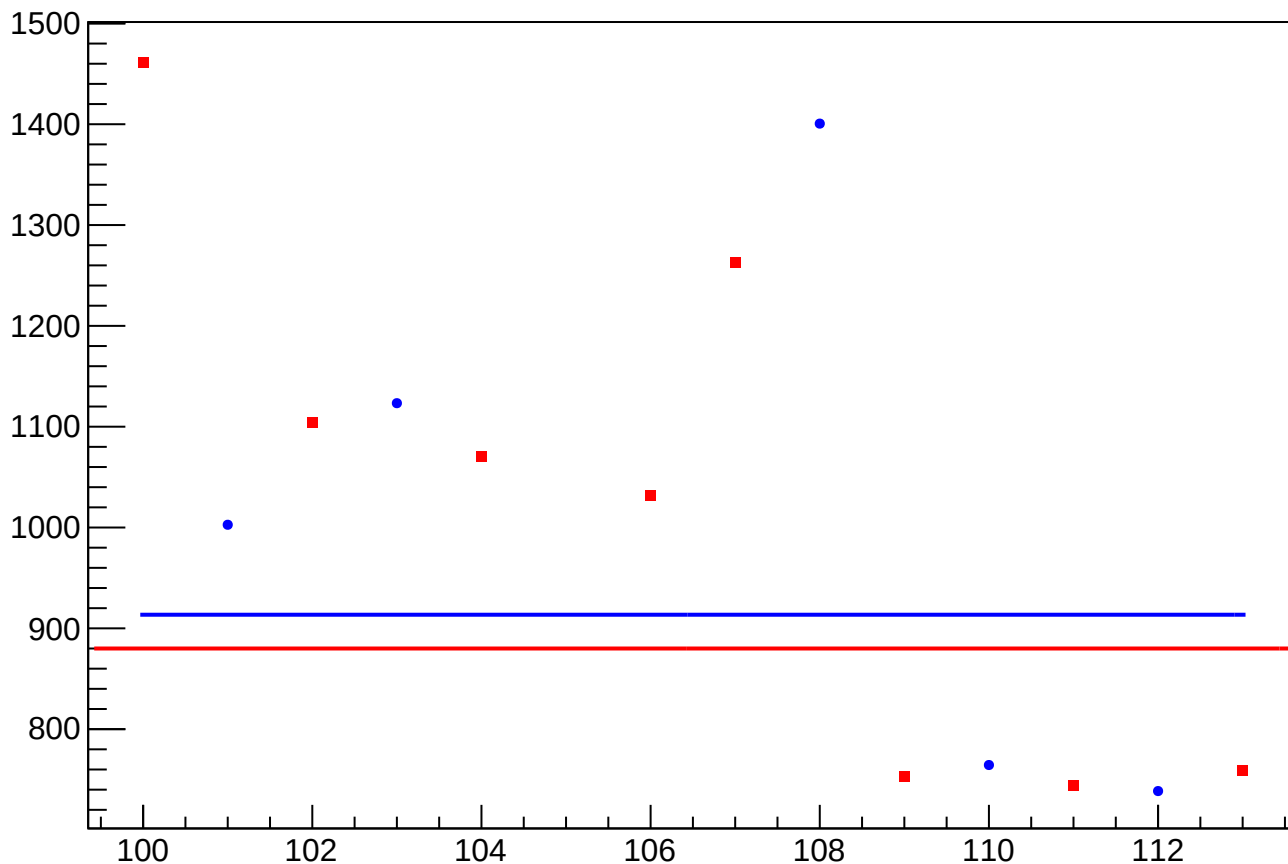
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 404.817+/-380.674  $\chi^2/\text{NDF}$ : 20.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3748\_avg\_rms vs Slug



Right In: 913.507 $\pm$ 0.416  $\chi^2$ /NDF: 232196.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 880.001 $\pm$ 0.353  $\chi^2$ /NDF: 249809.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

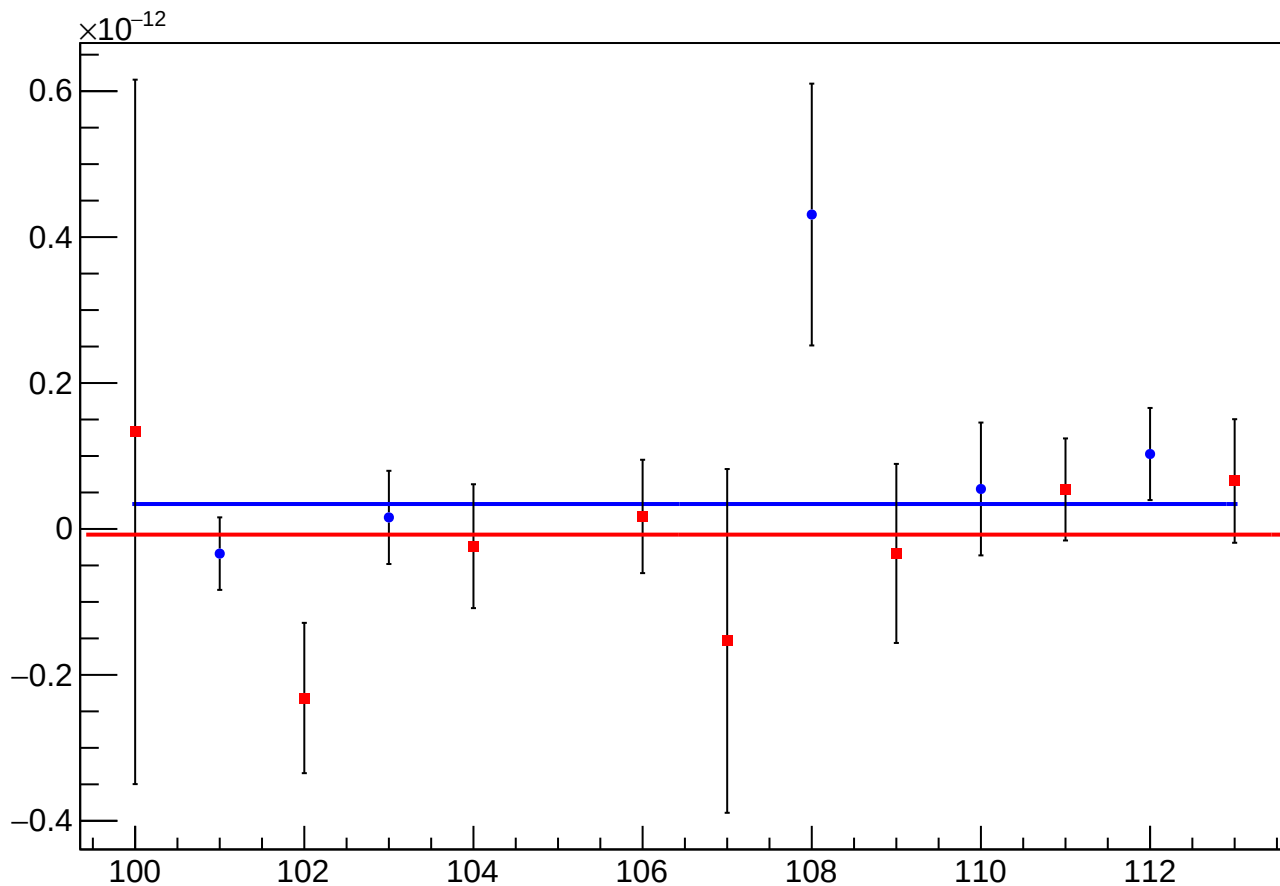
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 894.021 $\pm$ 0.269  $\chi^2$ /NDF: 485776.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_3748\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.9/7

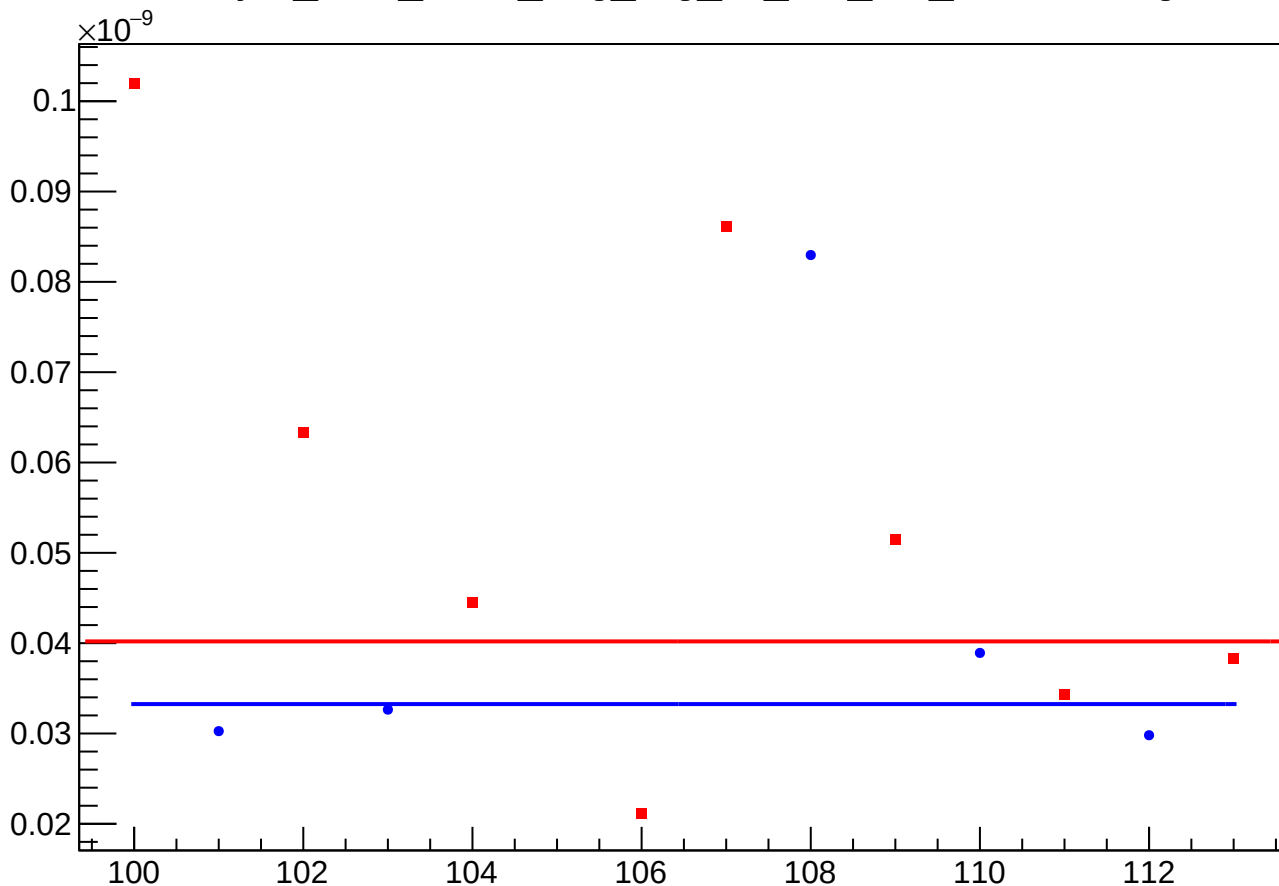
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 174734.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 366596.2/7

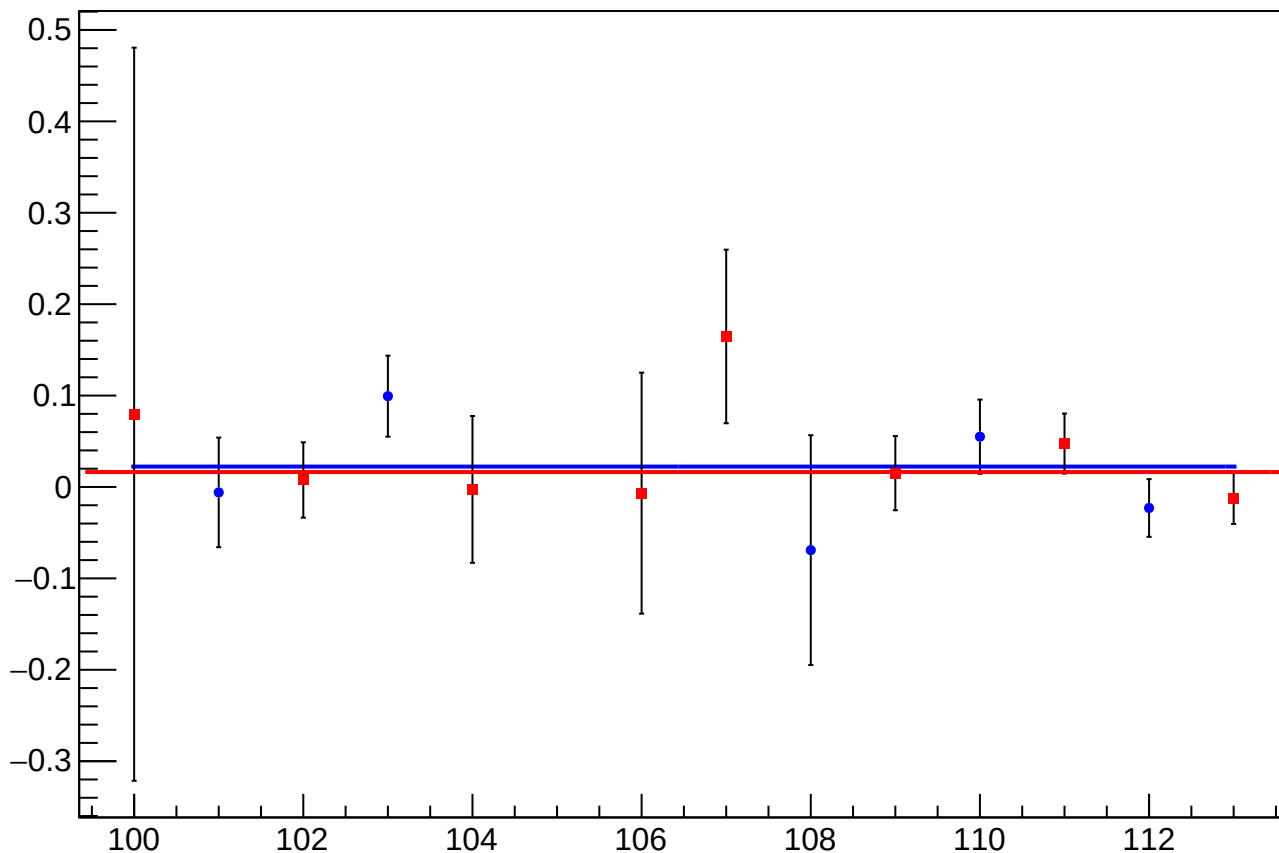
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 586071.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.022 $\pm$ 0.020  $\chi^2$ /NDF: 6.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.016 $\pm$ 0.016  $\chi^2$ /NDF: 4.5/7

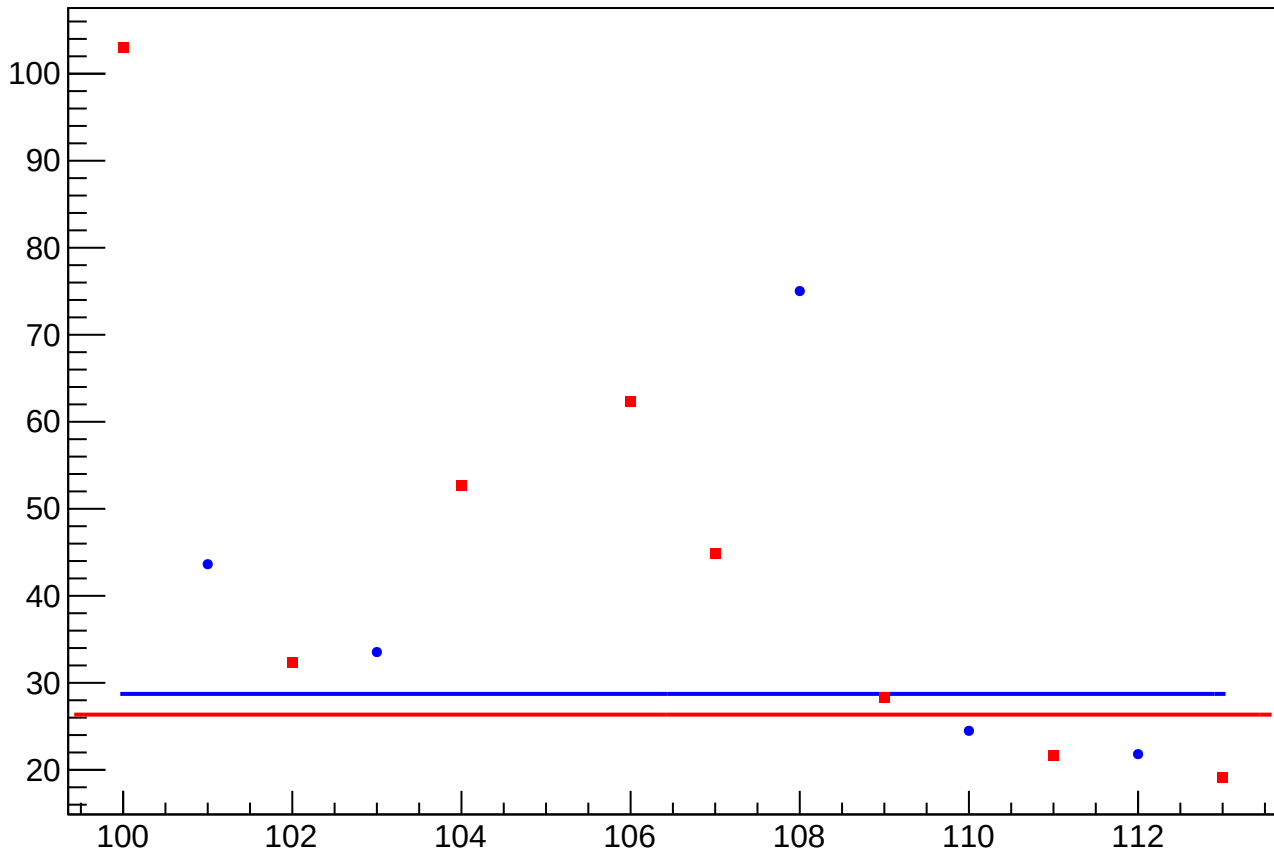
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.013  $\chi^2$ /NDF: 11.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 28.730 $\pm$ 0.014  $\chi^2$ /NDF: 536508.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.349 $\pm$ 0.012  $\chi^2$ /NDF: 731869.3/7

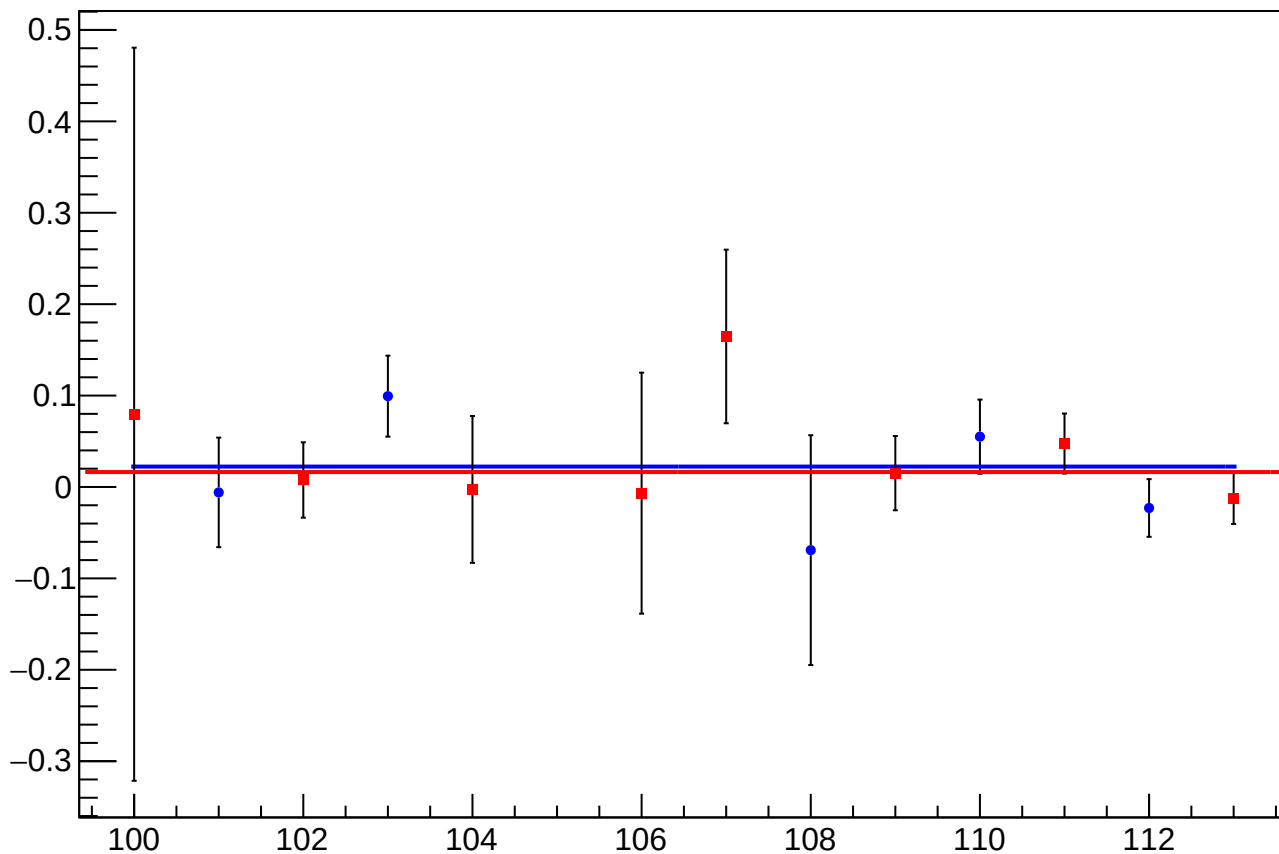
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.301 $\pm$ 0.009  $\chi^2$ /NDF: 1285141.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.022 $\pm$ 0.020  $\chi^2$ /NDF: 6.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.016 $\pm$ 0.016  $\chi^2$ /NDF: 4.5/7

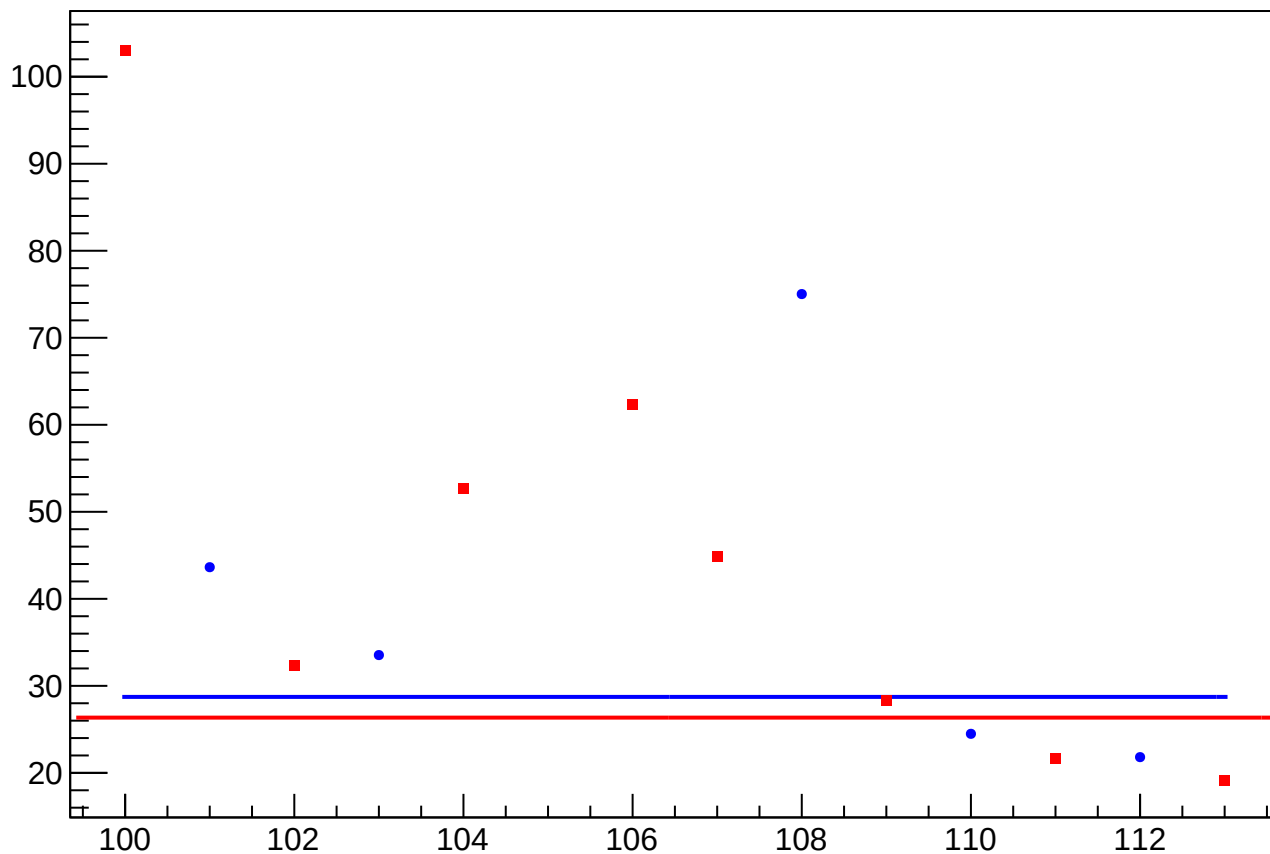
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.013  $\chi^2$ /NDF: 11.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 28.730 $\pm$ 0.014  $\chi^2$ /NDF: 536508.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.349 $\pm$ 0.012  $\chi^2$ /NDF: 731869.3/7

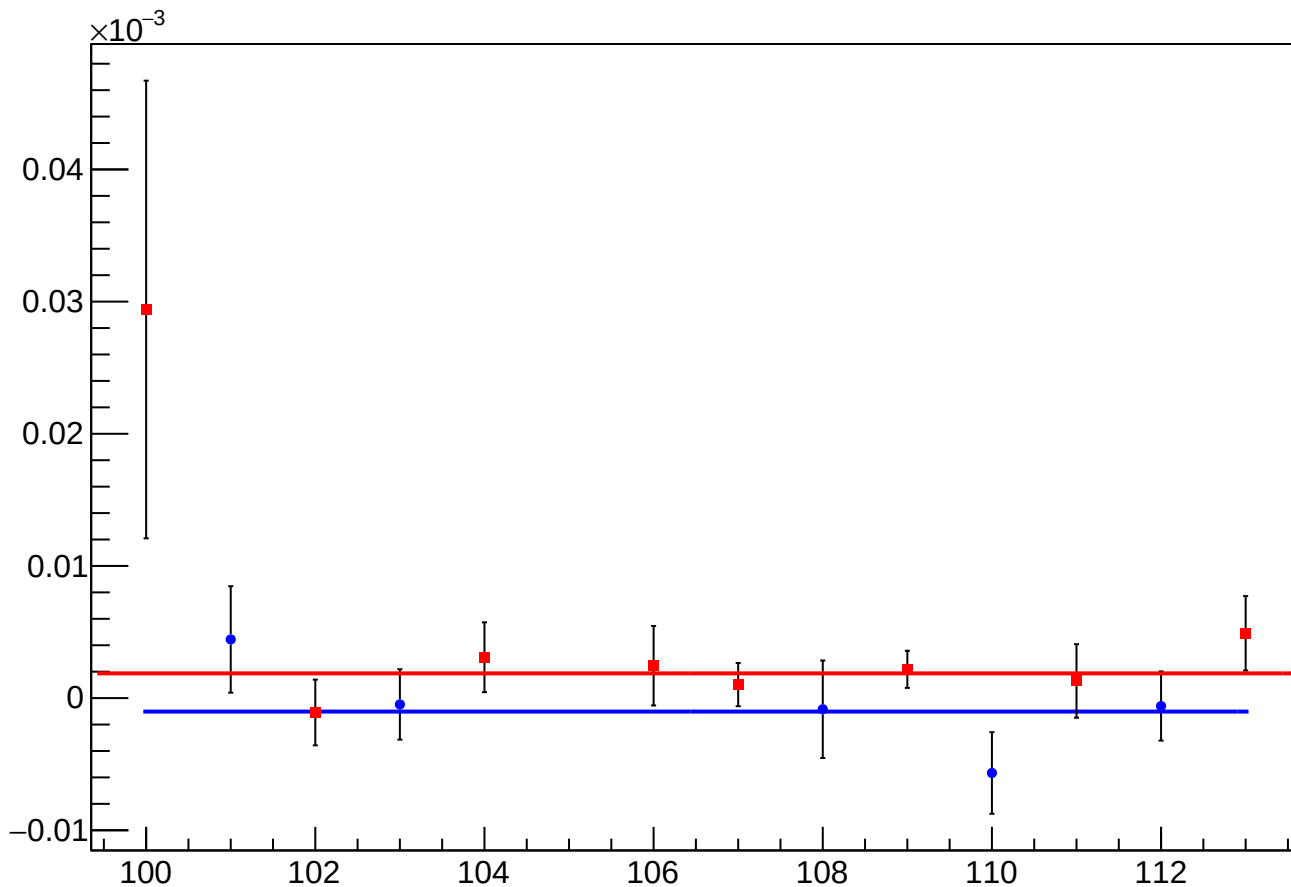
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.301 $\pm$ 0.009  $\chi^2$ /NDF: 1285141.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.7/7

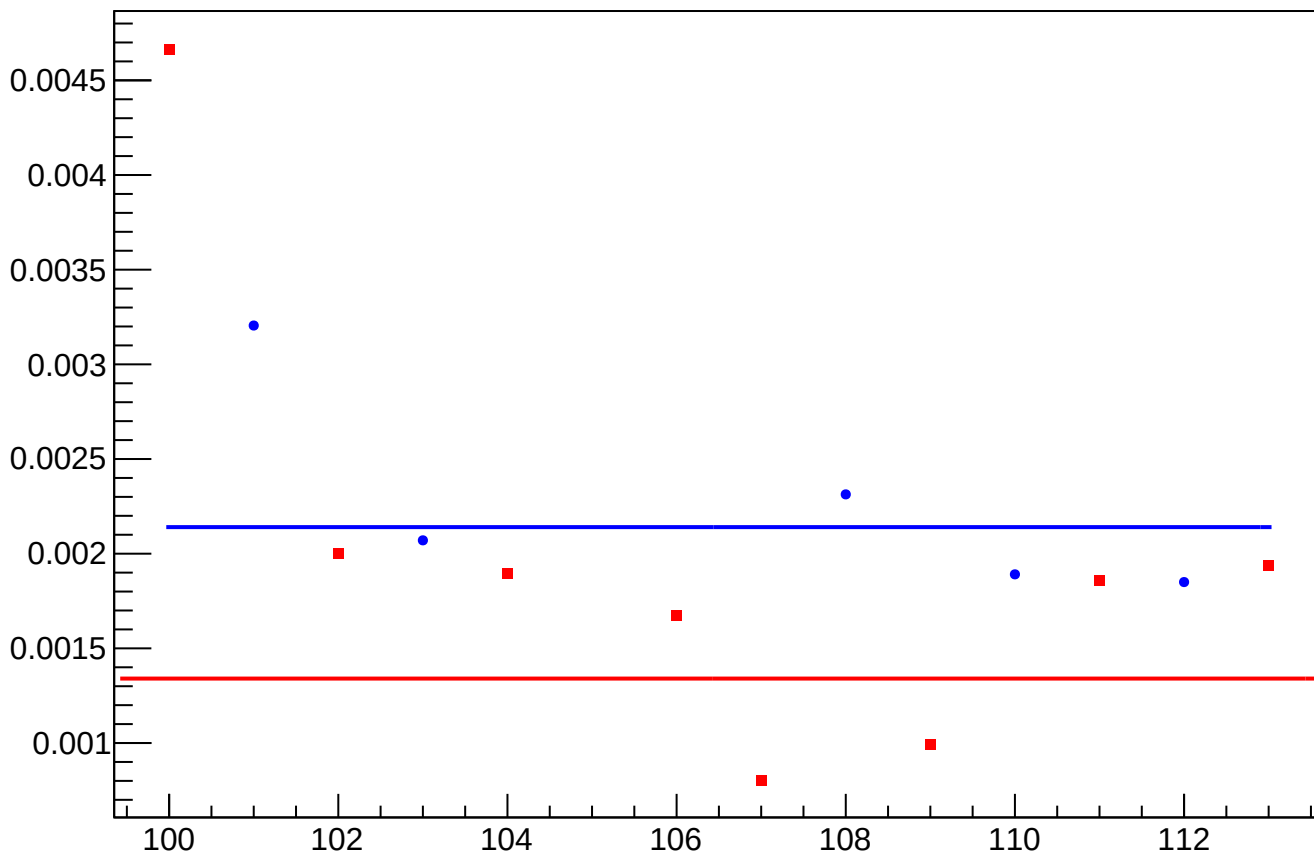
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 183075.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 827383.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

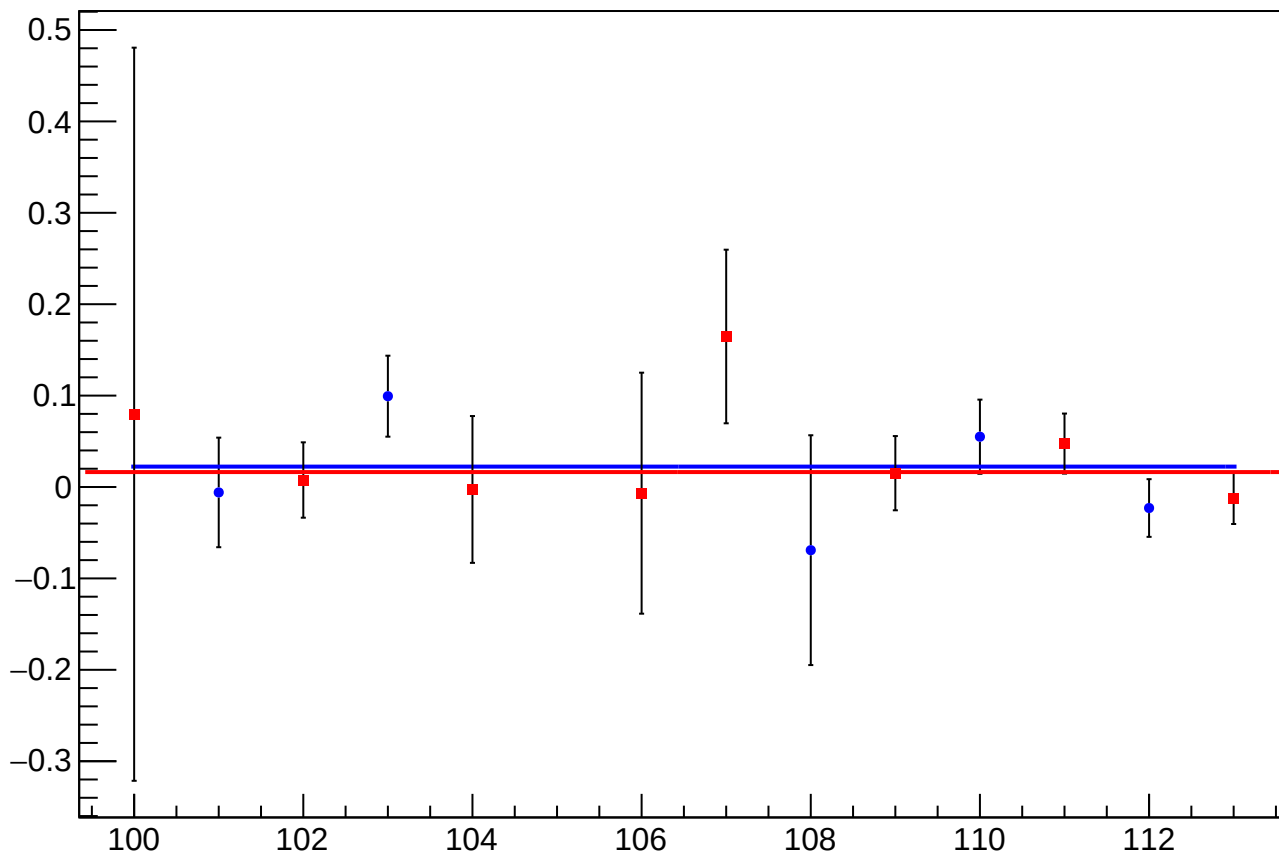
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 1513950.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_3748\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.022 $\pm$ 0.020  $\chi^2$ /NDF: 6.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.016 $\pm$ 0.016  $\chi^2$ /NDF: 4.5/7

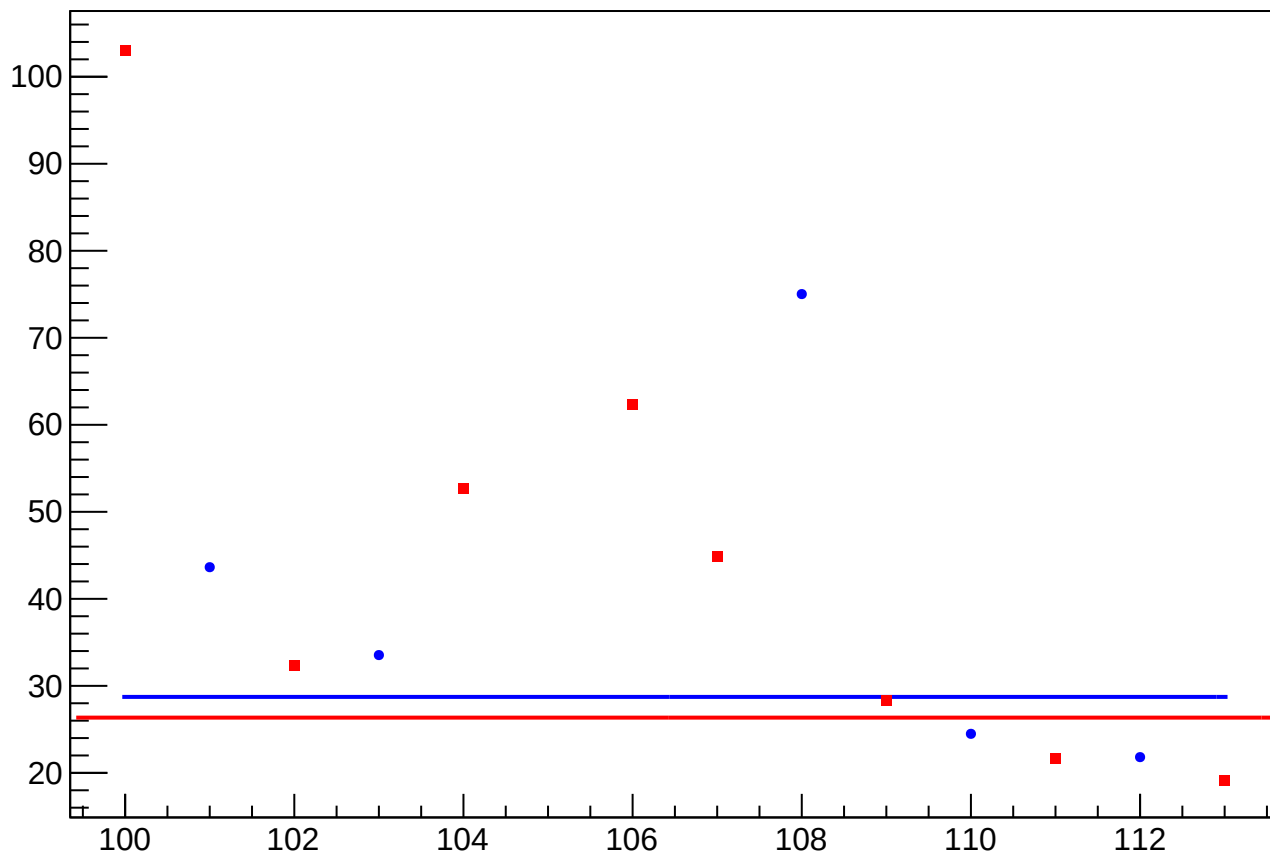
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.013  $\chi^2$ /NDF: 11.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In:  $28.731 \pm 0.014$   $\chi^2/\text{NDF}: 536517.1/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $26.350 \pm 0.012$   $\chi^2/\text{NDF}: 731873.5/7$

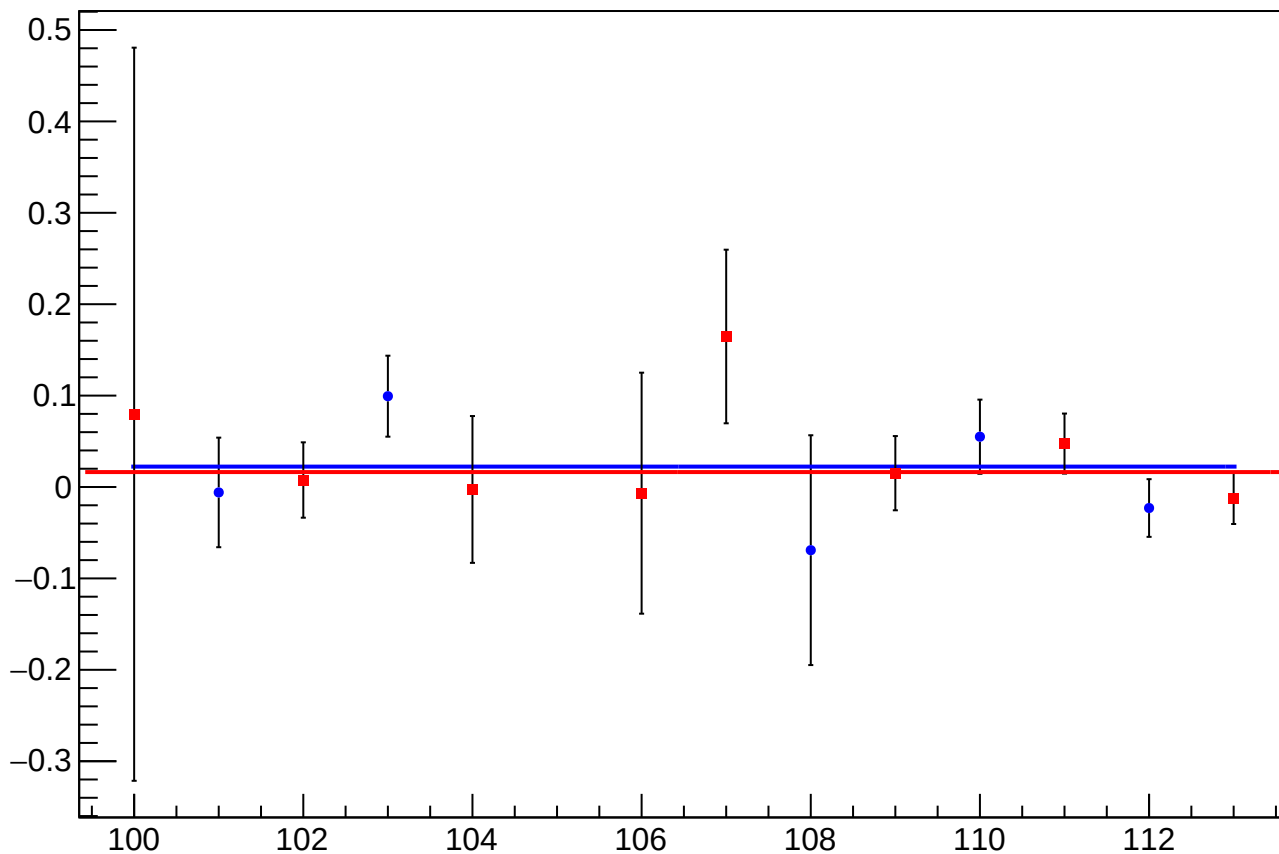
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $27.301 \pm 0.009$   $\chi^2/\text{NDF}: 1285155.0/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.022 $\pm$ 0.020  $\chi^2$ /NDF: 6.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.016 $\pm$ 0.016  $\chi^2$ /NDF: 4.5/7

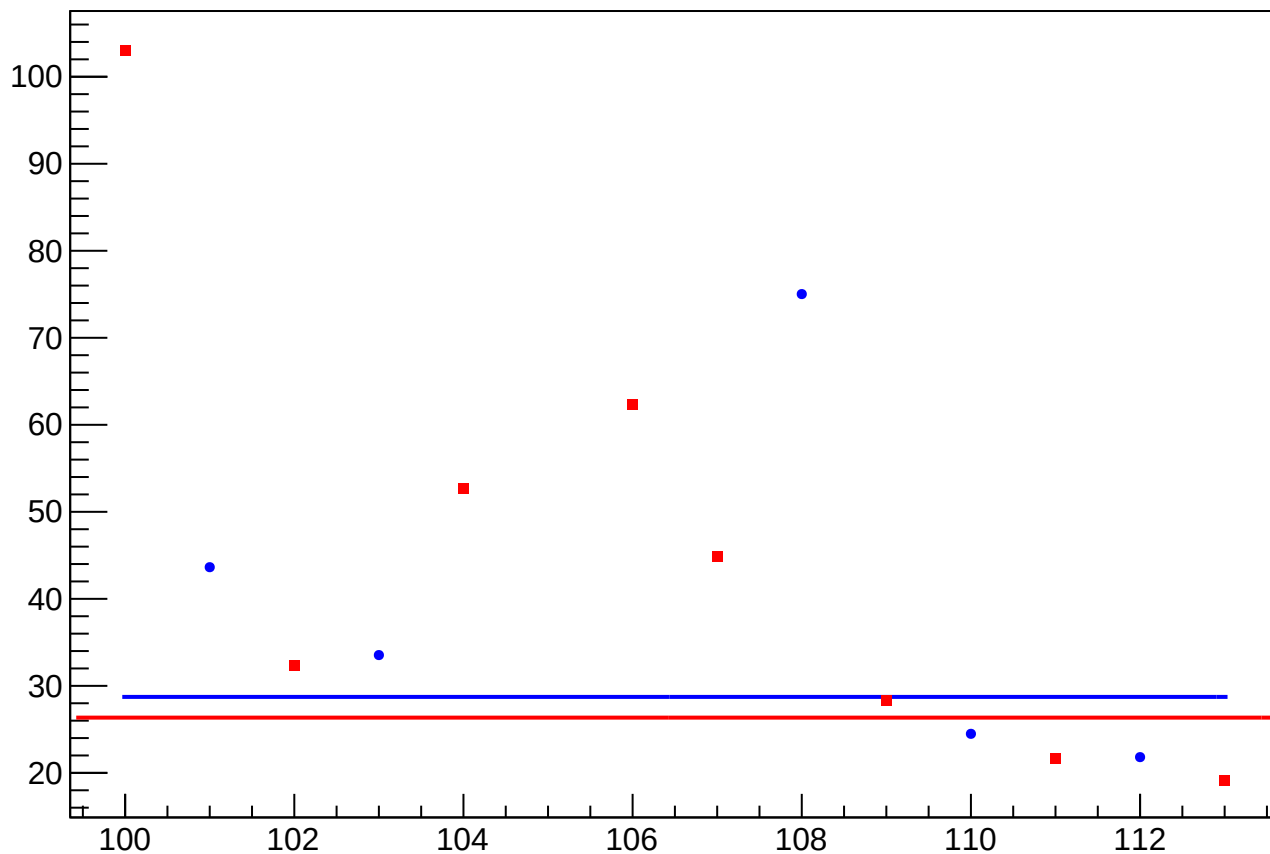
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.013  $\chi^2$ /NDF: 11.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 28.731 $\pm$ 0.014  $\chi^2$ /NDF: 536517.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.350 $\pm$ 0.012  $\chi^2$ /NDF: 731873.5/7

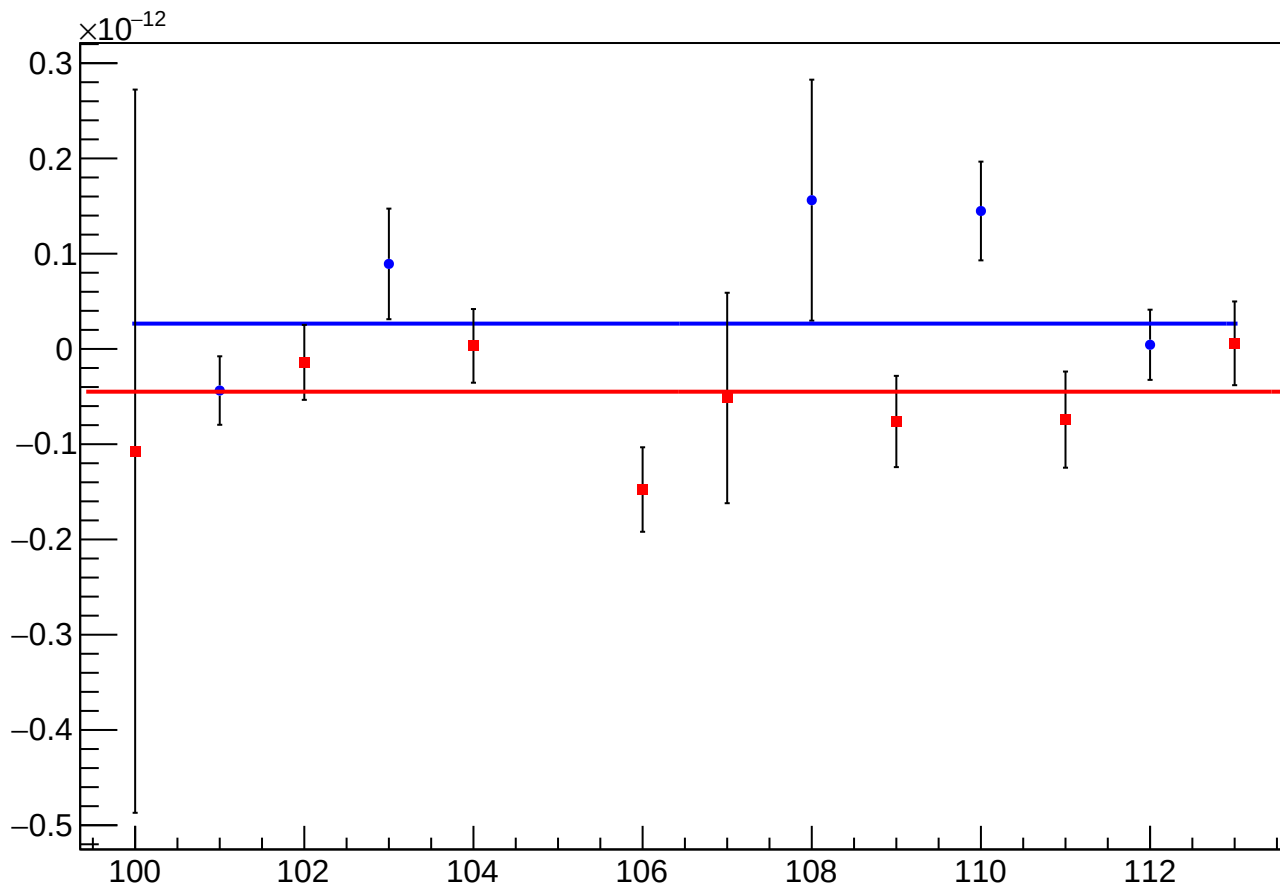
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.301 $\pm$ 0.009  $\chi^2$ /NDF: 1285155.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.7/7

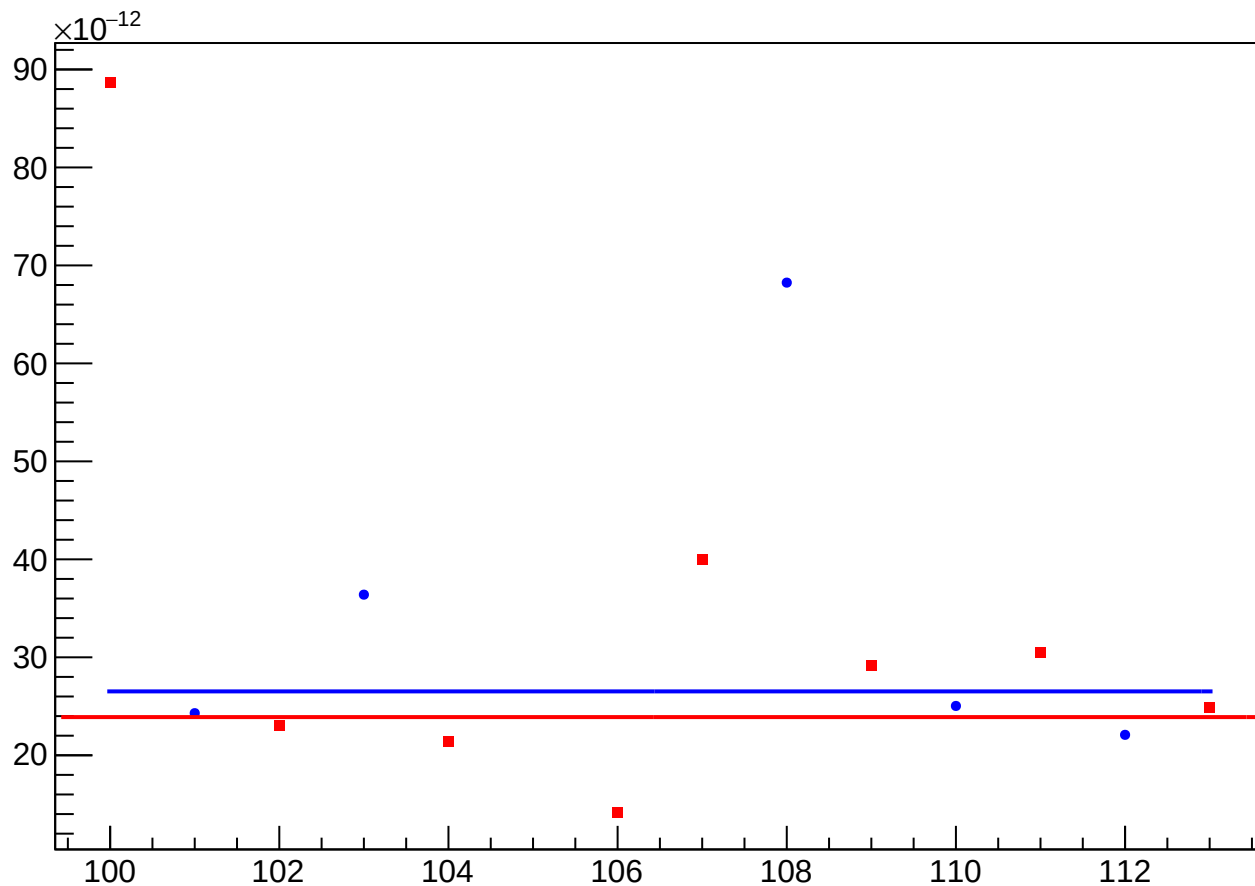
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 28.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 313697.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 266573.2/7

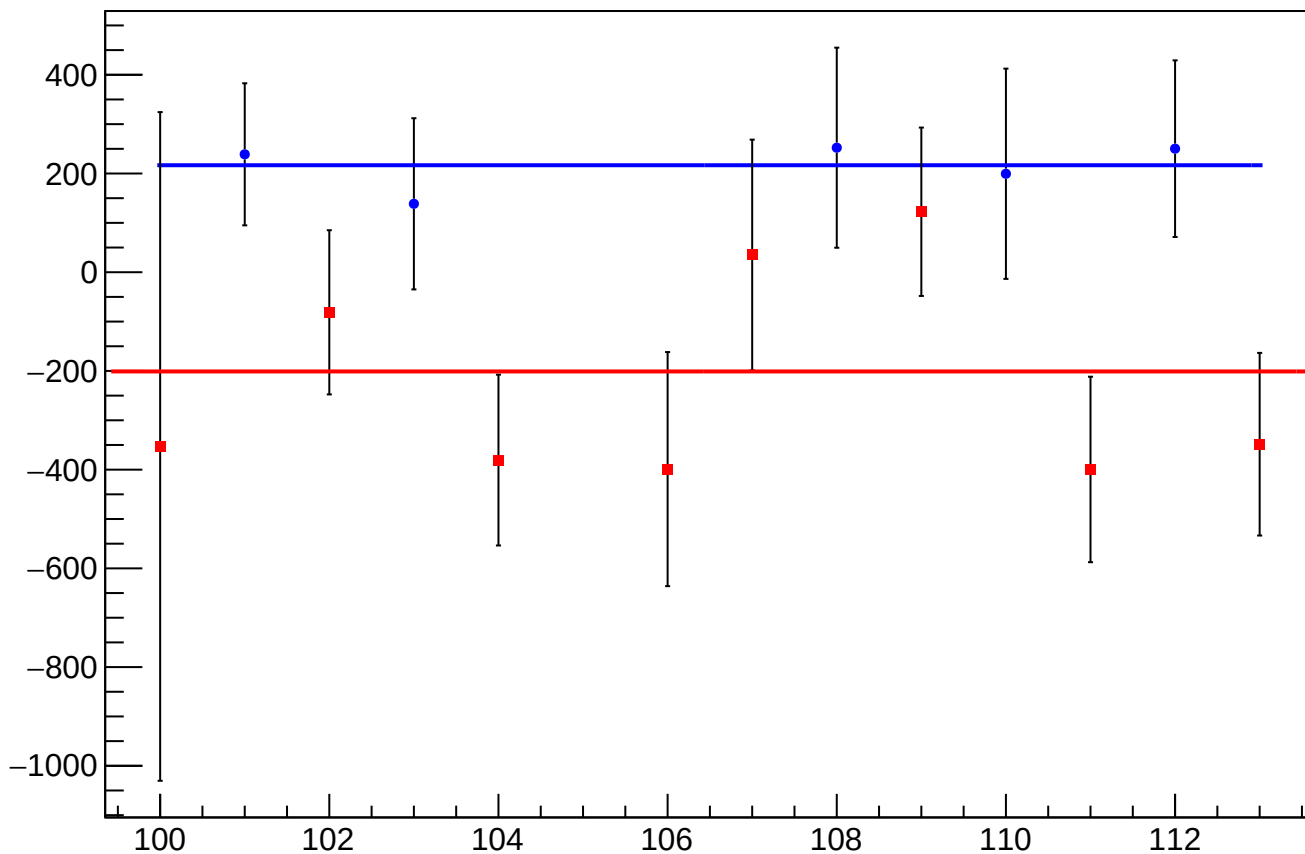
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 598549.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 216.761 $\pm$ 79.268  $\chi^2$ /NDF: 0.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -201.042 $\pm$ 70.760  $\chi^2$ /NDF: 8.7/7

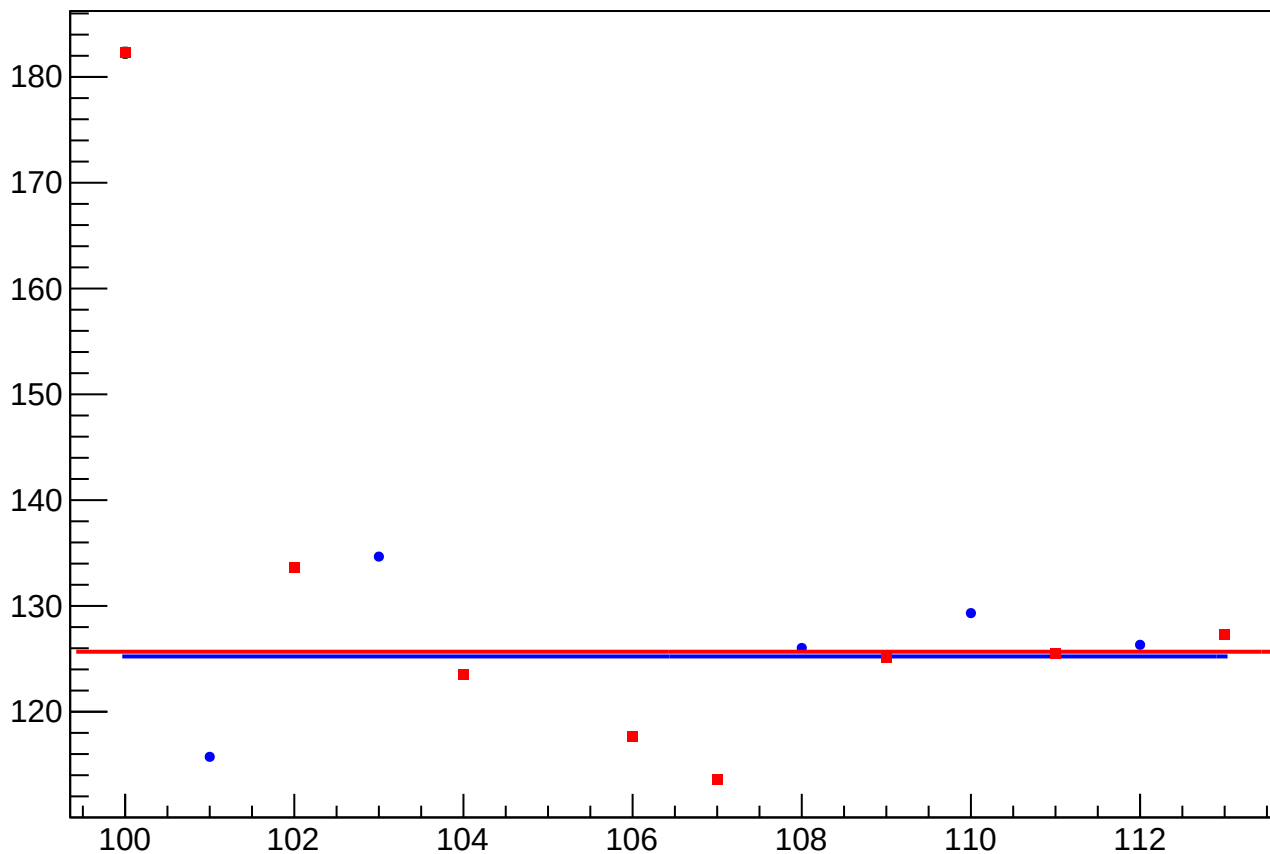
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -15.760 $\pm$ 52.788  $\chi^2$ /NDF: 24.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 125.225 $\pm$ 0.056  $\chi^2$ /NDF: 15460.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.671 $\pm$ 0.050  $\chi^2$ /NDF: 26623.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

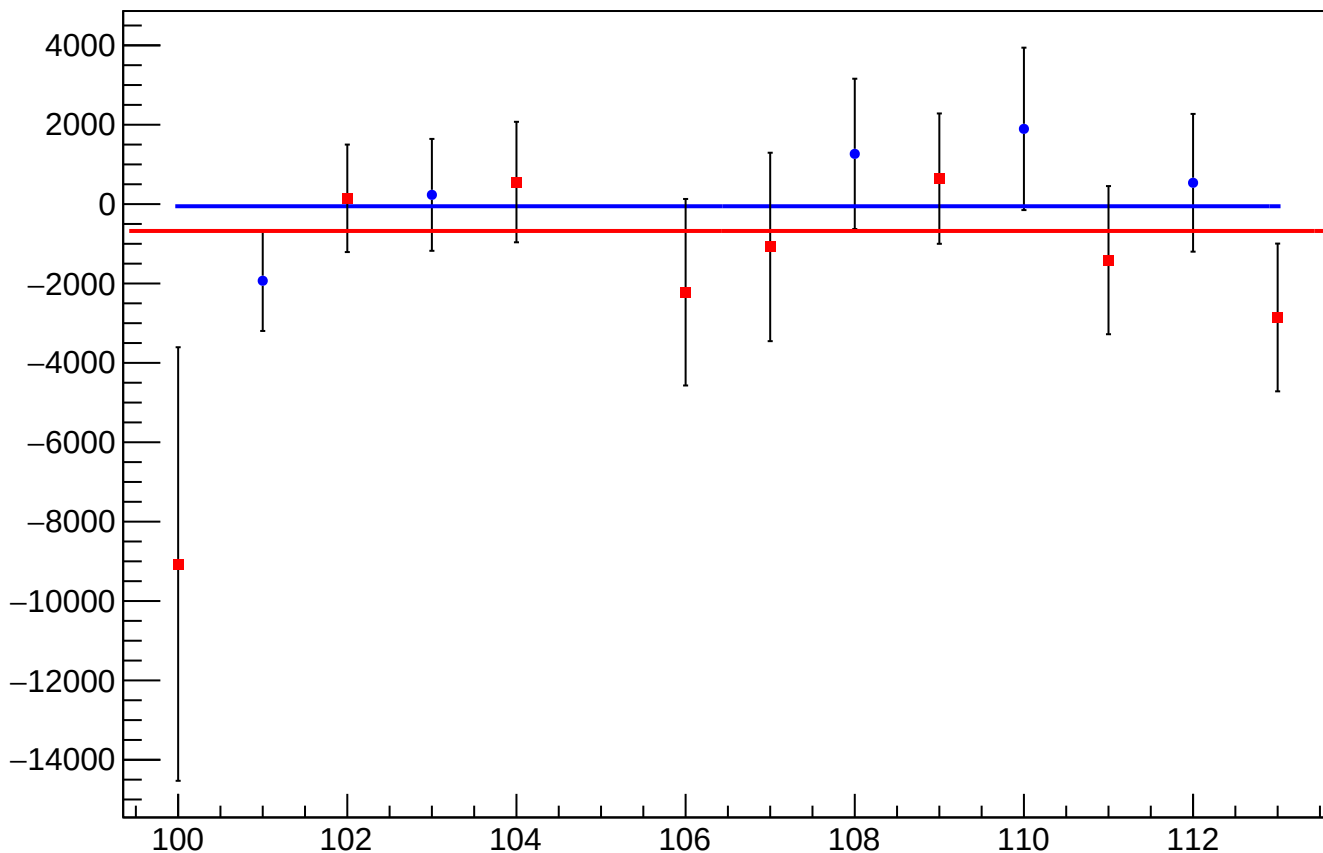
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 125.473 $\pm$ 0.037  $\chi^2$ /NDF: 42119.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1526\_avg\_reg\_correction\_mean vs Slug



Right In: -53.825+/-710.870  $\chi^2/\text{NDF}$ : 3.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -676.570+/-656.779  $\chi^2/\text{NDF}$ : 6.0/7

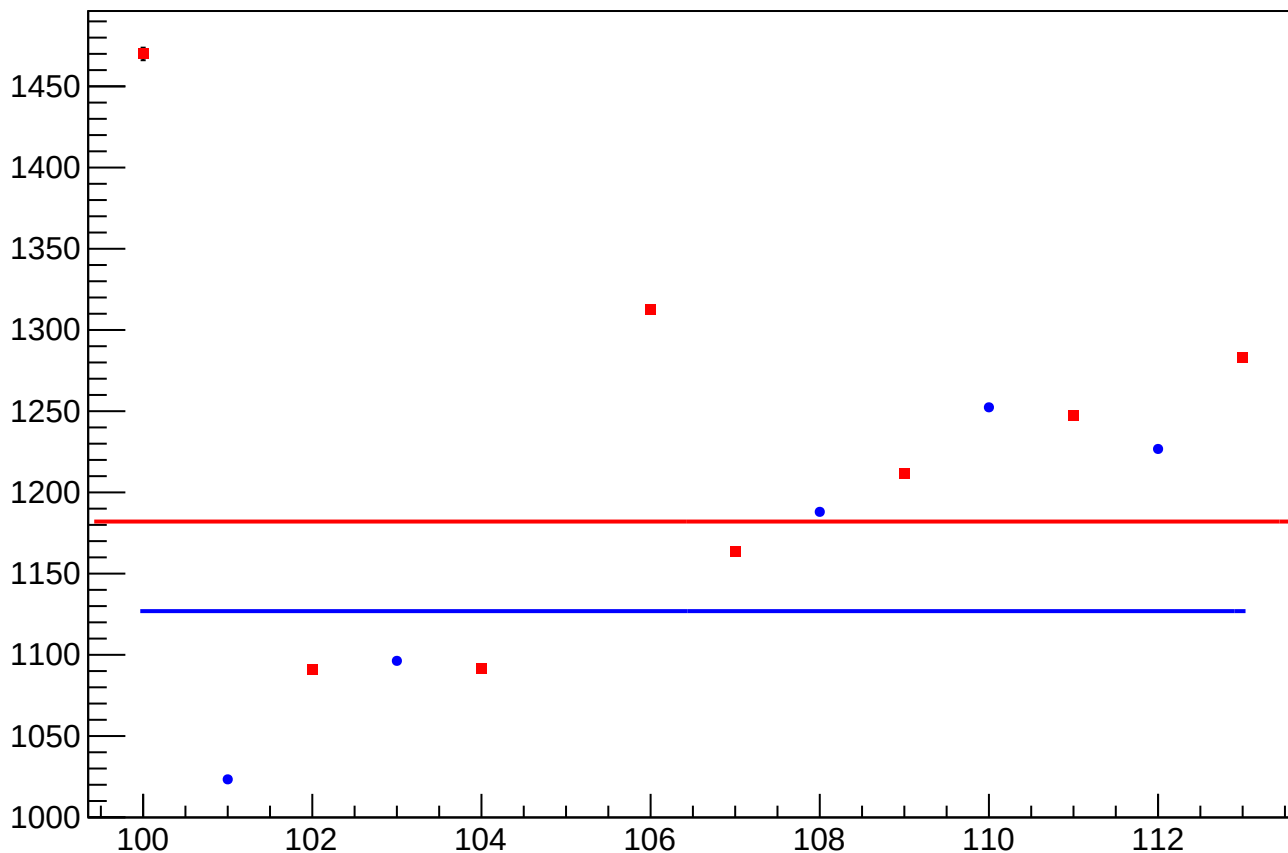
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -389.789+/-482.403  $\chi^2/\text{NDF}$ : 10.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1526\_avg\_reg\_correction\_rms vs Slug



Right In: 1126.906 $\pm$ 0.503  $\chi^2$ /NDF: 30593.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1182.057 $\pm$ 0.464  $\chi^2$ /NDF: 36970.3/7

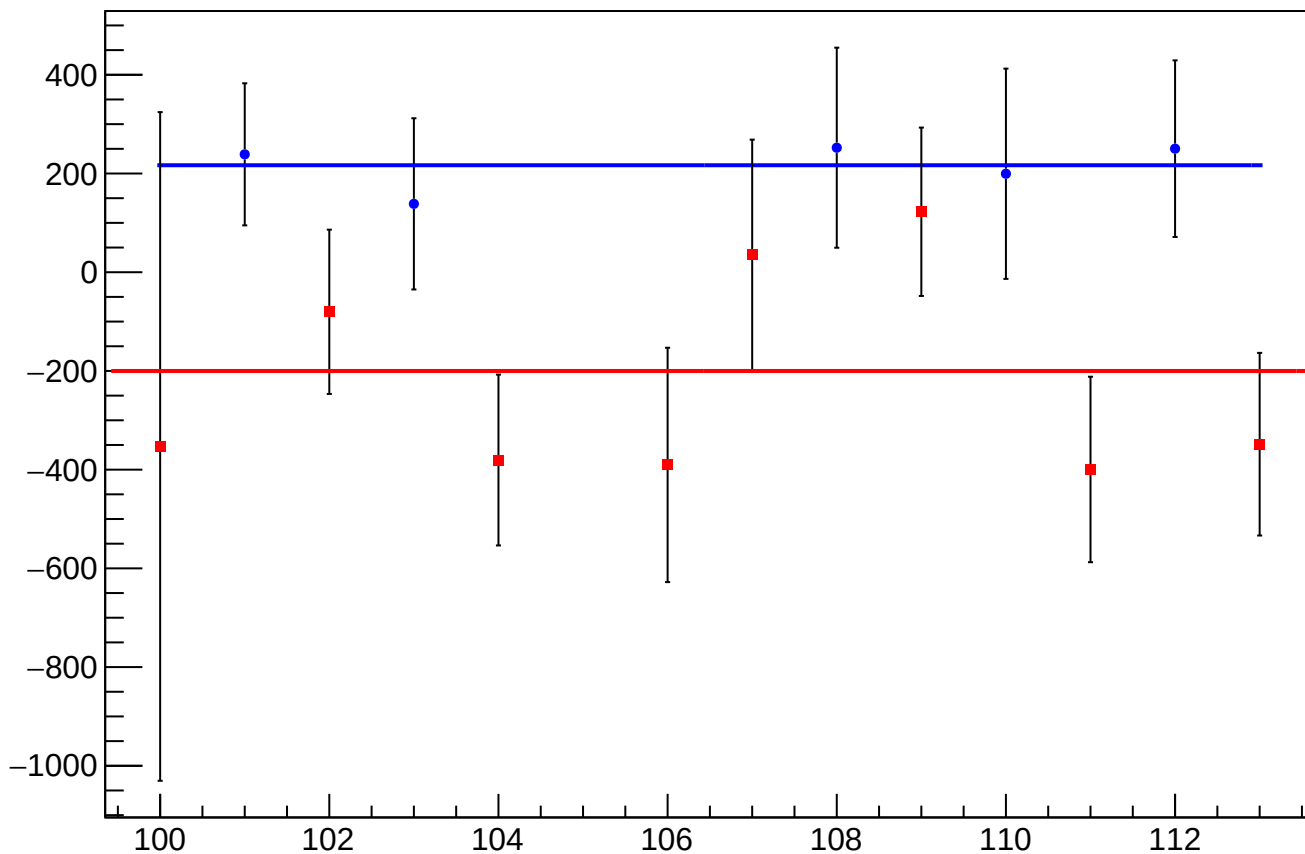
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1156.659 $\pm$ 0.341  $\chi^2$ /NDF: 74058.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 216.752 $\pm$ 79.268  $\chi^2$ /NDF: 0.3/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -200.072 $\pm$ 70.774  $\chi^2$ /NDF: 8.7/7

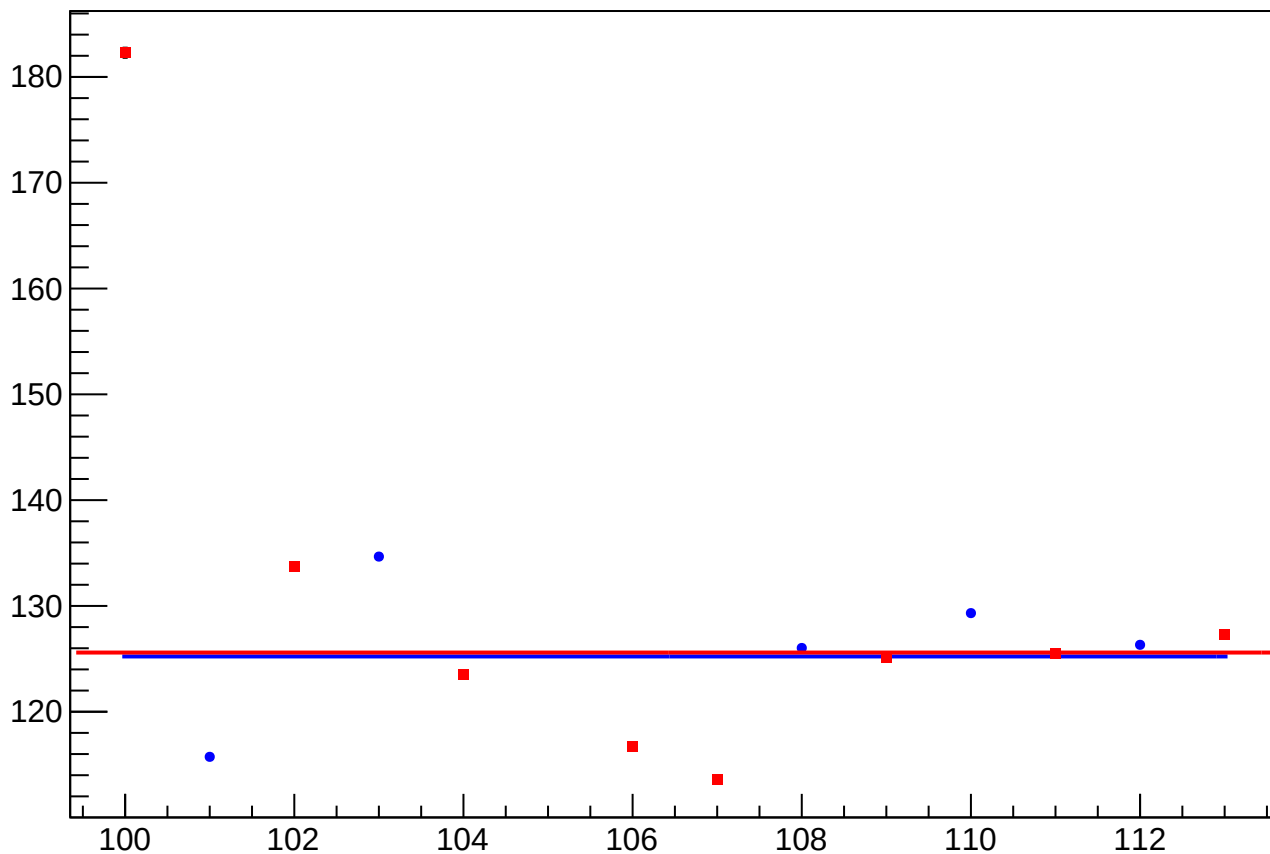
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -15.182 $\pm$ 52.793  $\chi^2$ /NDF: 24.3/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 125.225 $\pm$ 0.056  $\chi^2$ /NDF: 15461.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.594 $\pm$ 0.050  $\chi^2$ /NDF: 27303.2/7

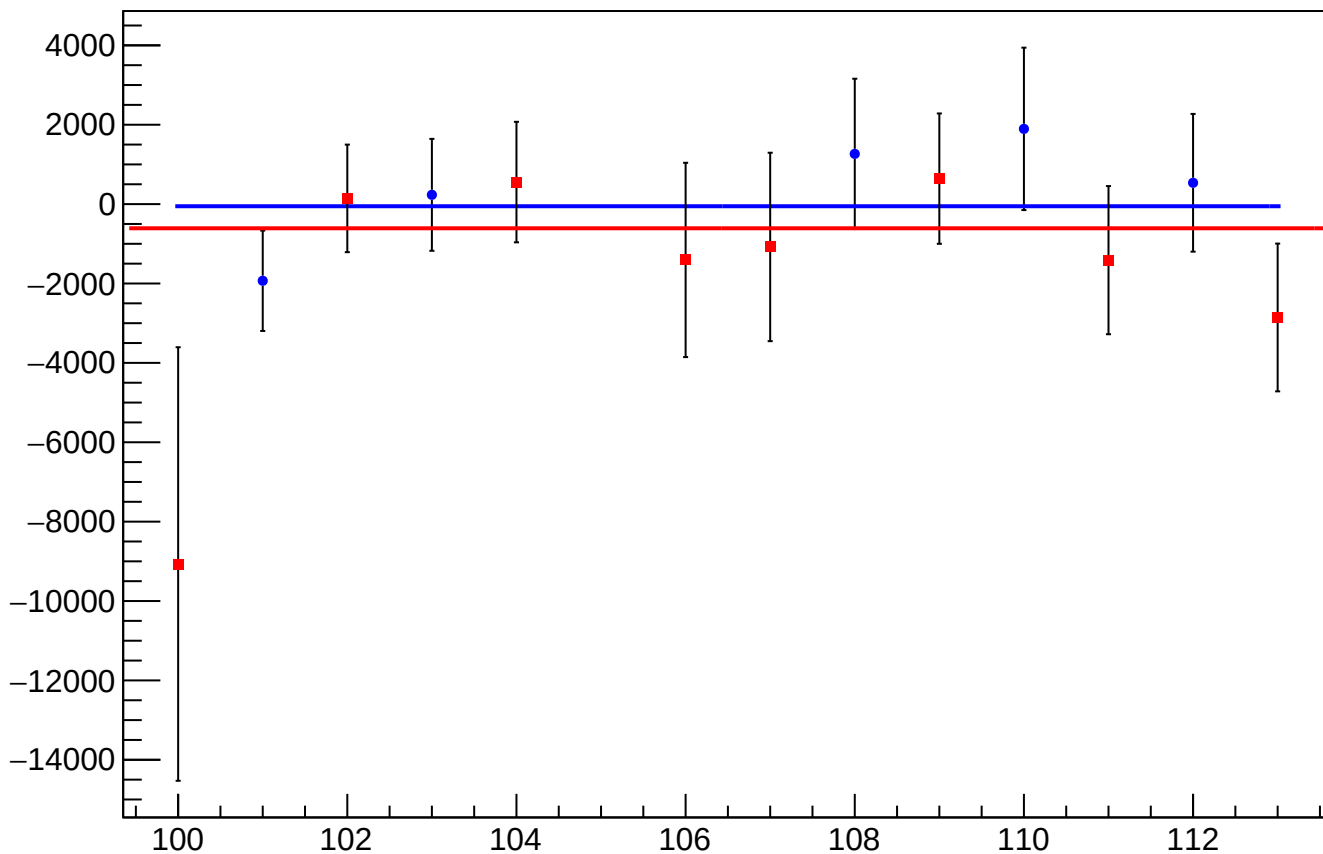
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 125.431 $\pm$ 0.037  $\chi^2$ /NDF: 42788.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_cor\_correction\_mean vs Slug



Right In: -53.664+/-710.880  $\chi^2/\text{NDF}$ : 3.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -608.938+/-658.916  $\chi^2/\text{NDF}$ : 5.7/7

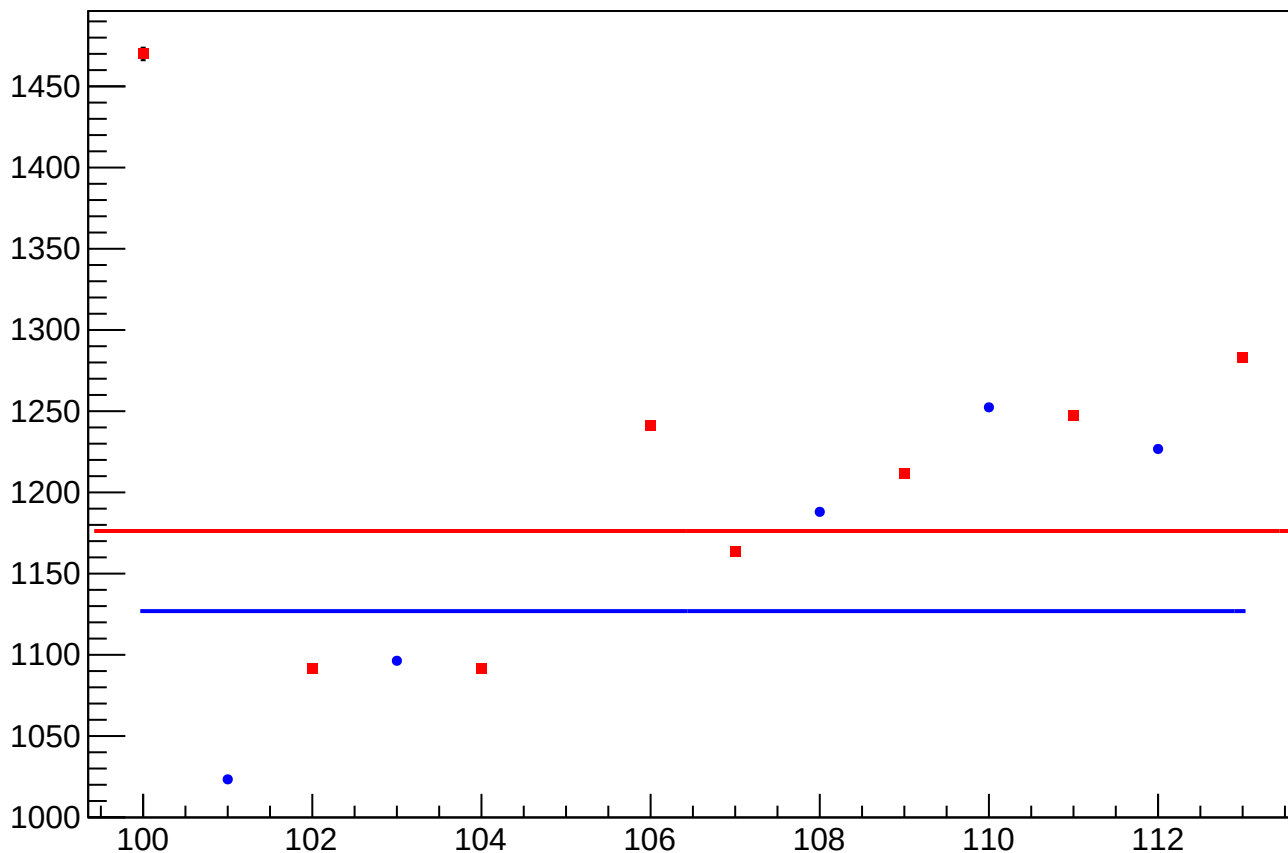
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -352.335+/-483.252  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1526\_avg\_cor\_correction\_rms vs Slug



Right In: 1126.922+/-0.503  $\chi^2/\text{NDF}$ : 30589.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1176.247+/-0.466  $\chi^2/\text{NDF}$ : 31600.1/7

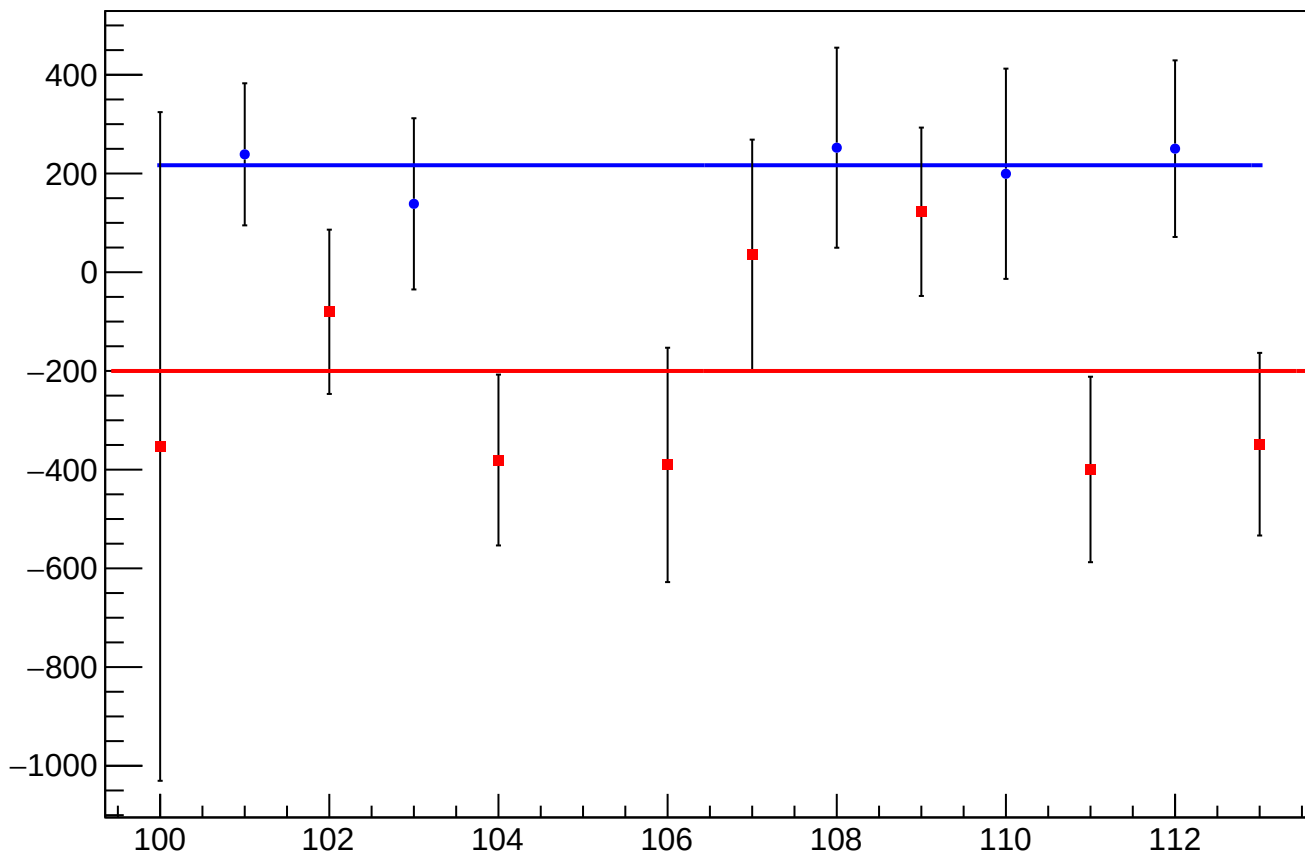
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1153.453+/-0.342  $\chi^2/\text{NDF}$ : 67368.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 216.752 $\pm$ 79.268  $\chi^2$ /NDF: 0.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -200.072 $\pm$ 70.774  $\chi^2$ /NDF: 8.7/7

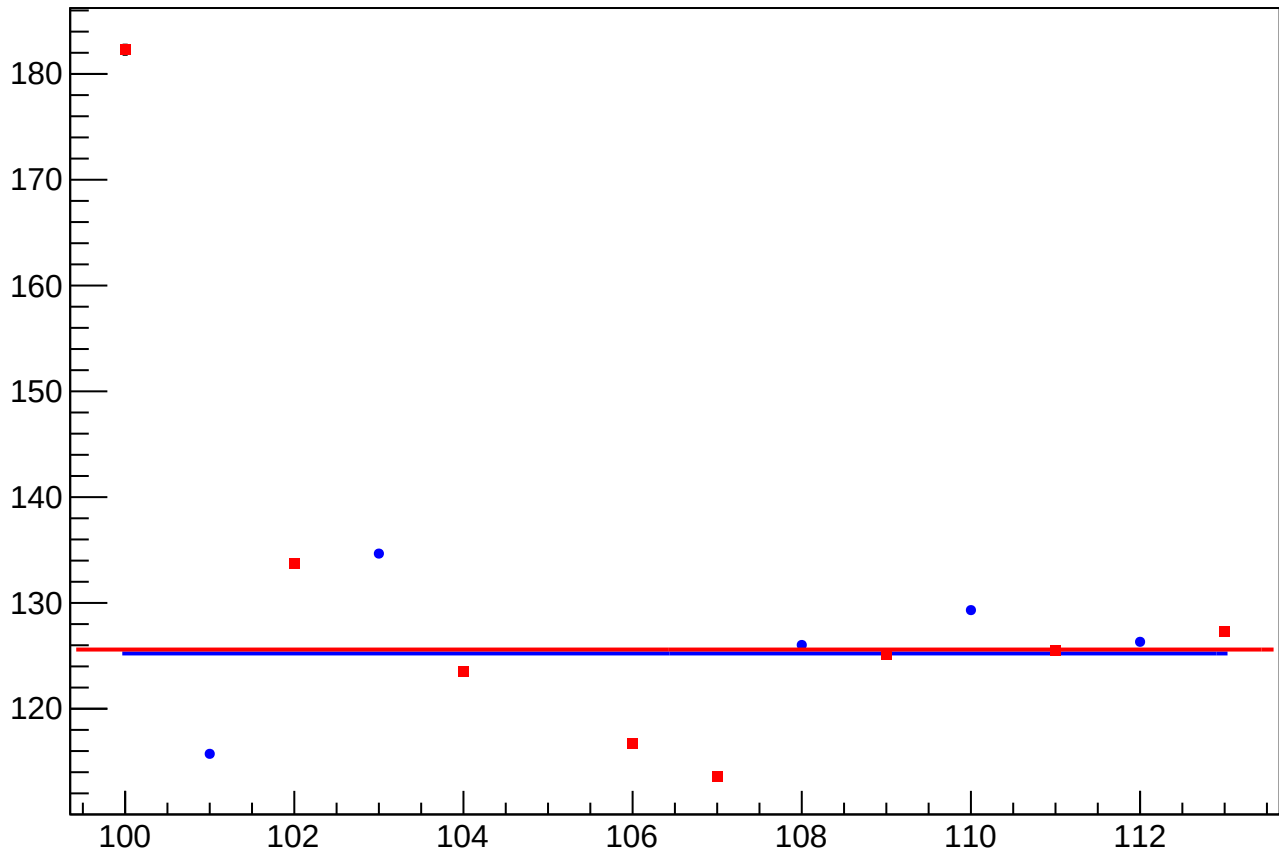
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -15.182 $\pm$ 52.793  $\chi^2$ /NDF: 24.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 125.225 $\pm$ 0.056  $\chi^2$ /NDF: 15461.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.594 $\pm$ 0.050  $\chi^2$ /NDF: 27303.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

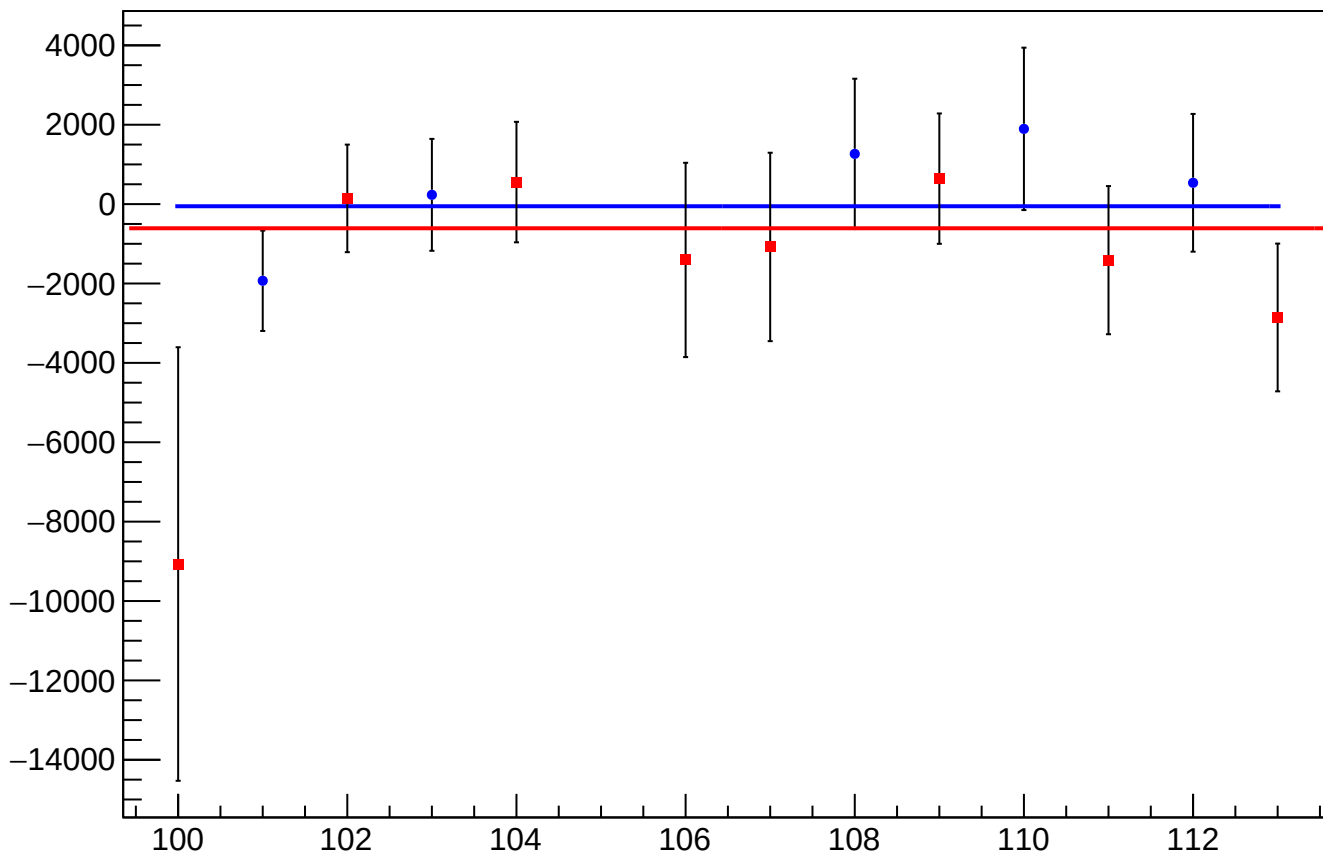
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 125.431 $\pm$ 0.037  $\chi^2$ /NDF: 42788.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1526\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -53.664+/-710.880  $\chi^2/\text{NDF}$ : 3.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -608.938+/-658.916  $\chi^2/\text{NDF}$ : 5.7/7

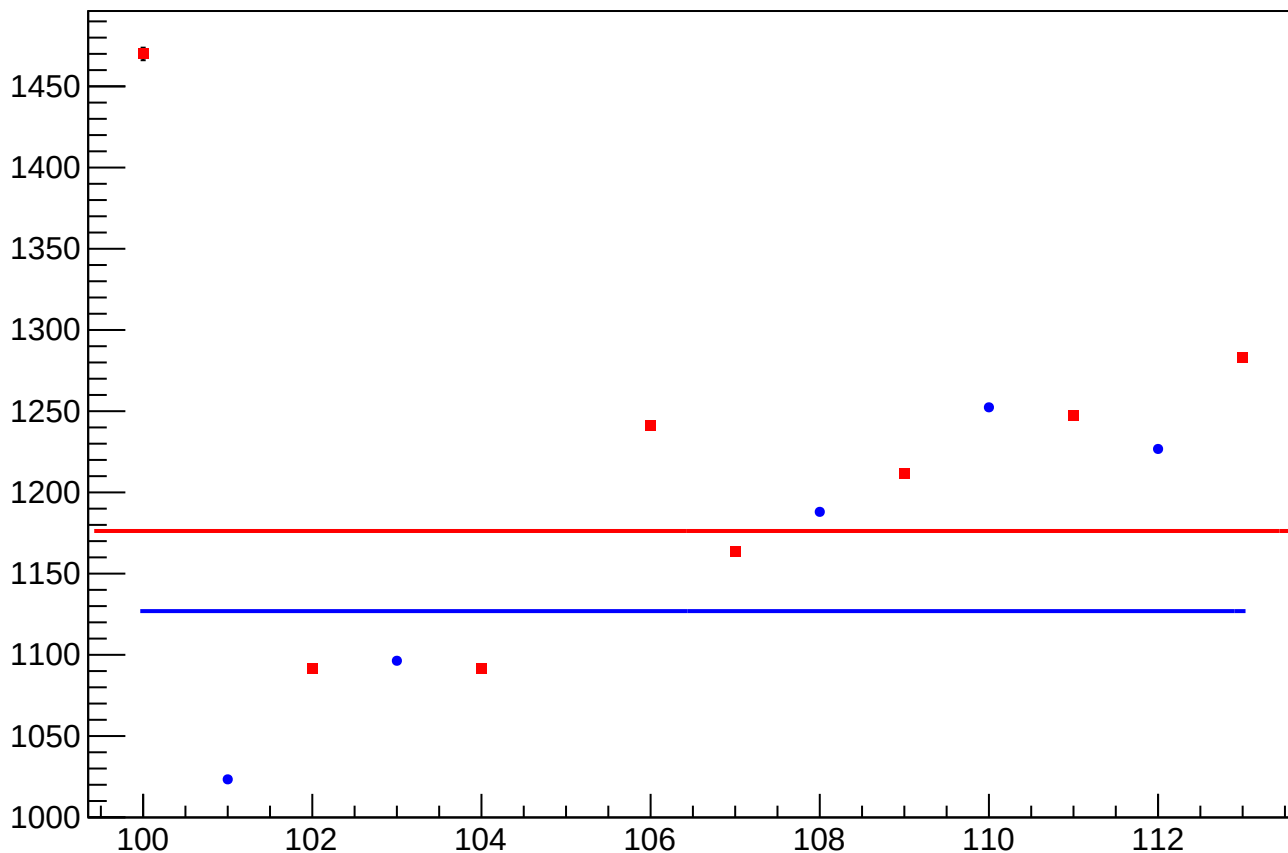
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -352.335+/-483.252  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1126.922 $\pm$ 0.503  $\chi^2$ /NDF: 30589.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1176.247 $\pm$ 0.466  $\chi^2$ /NDF: 31600.1/7

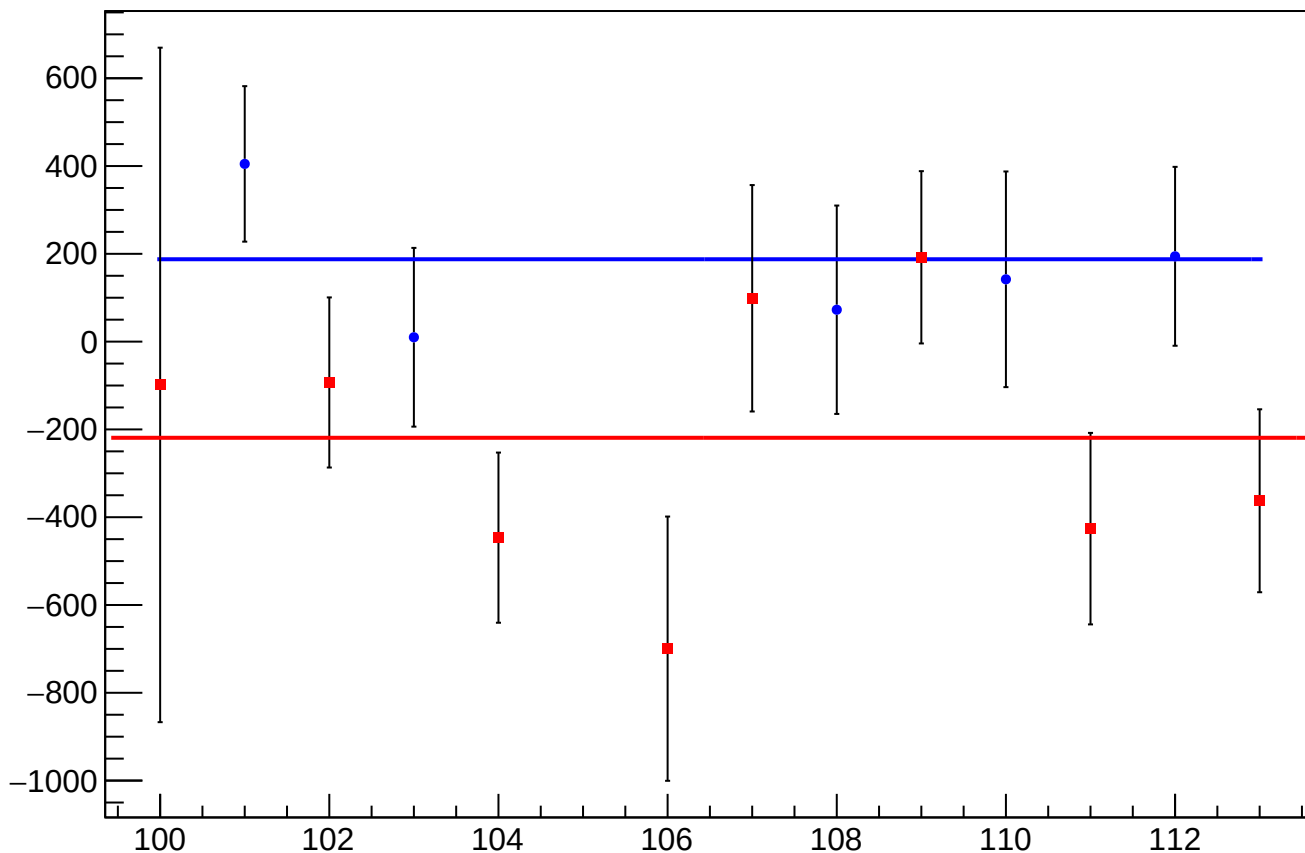
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1153.453 $\pm$ 0.342  $\chi^2$ /NDF: 67368.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 187.643 $\pm$ 93.493  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -219.069 $\pm$ -81.372  $\chi^2$ /NDF: 11.7/7

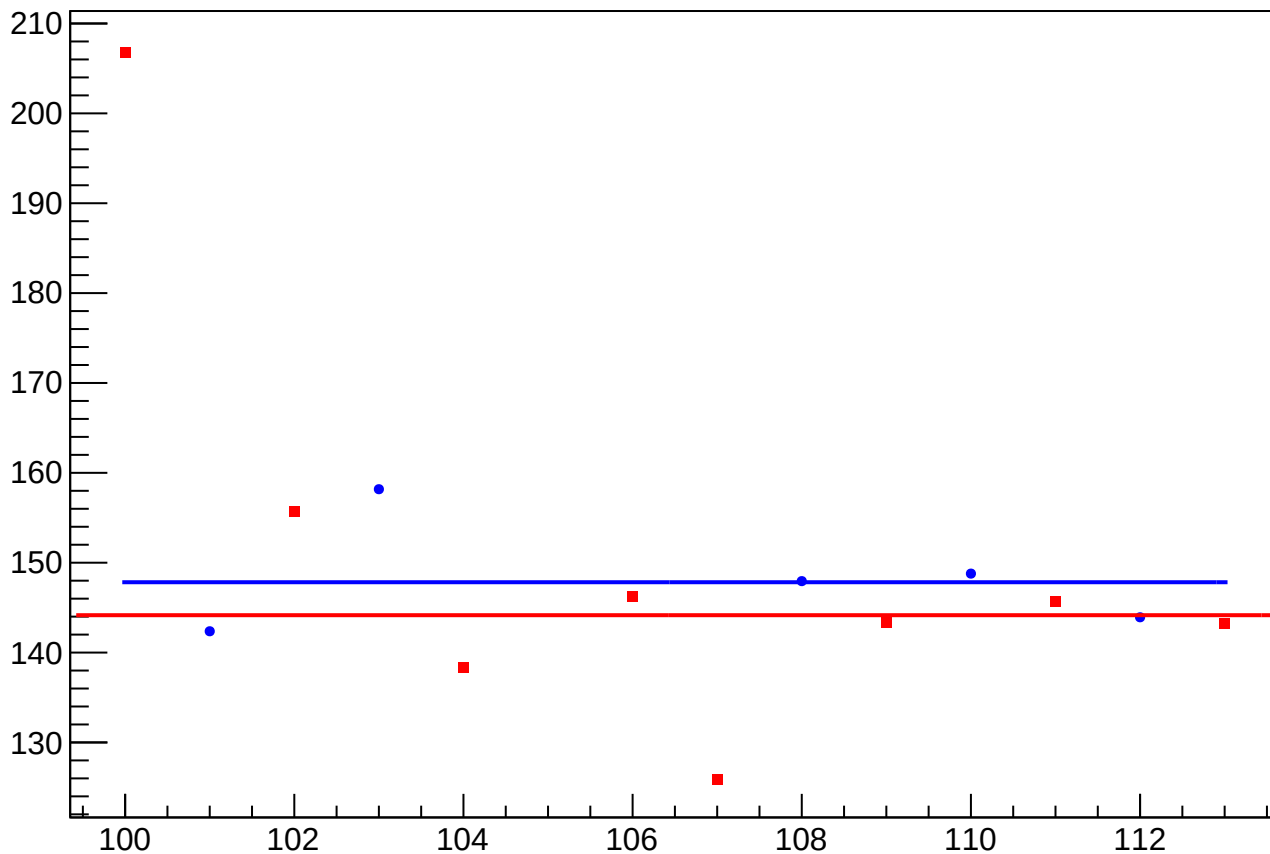
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -43.770 $\pm$ -61.380  $\chi^2$ /NDF: 25.0/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 147.827 $\pm$ 0.066  $\chi^2$ /NDF: 7831.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 144.159 $\pm$ 0.058  $\chi^2$ /NDF: 32446.4/7

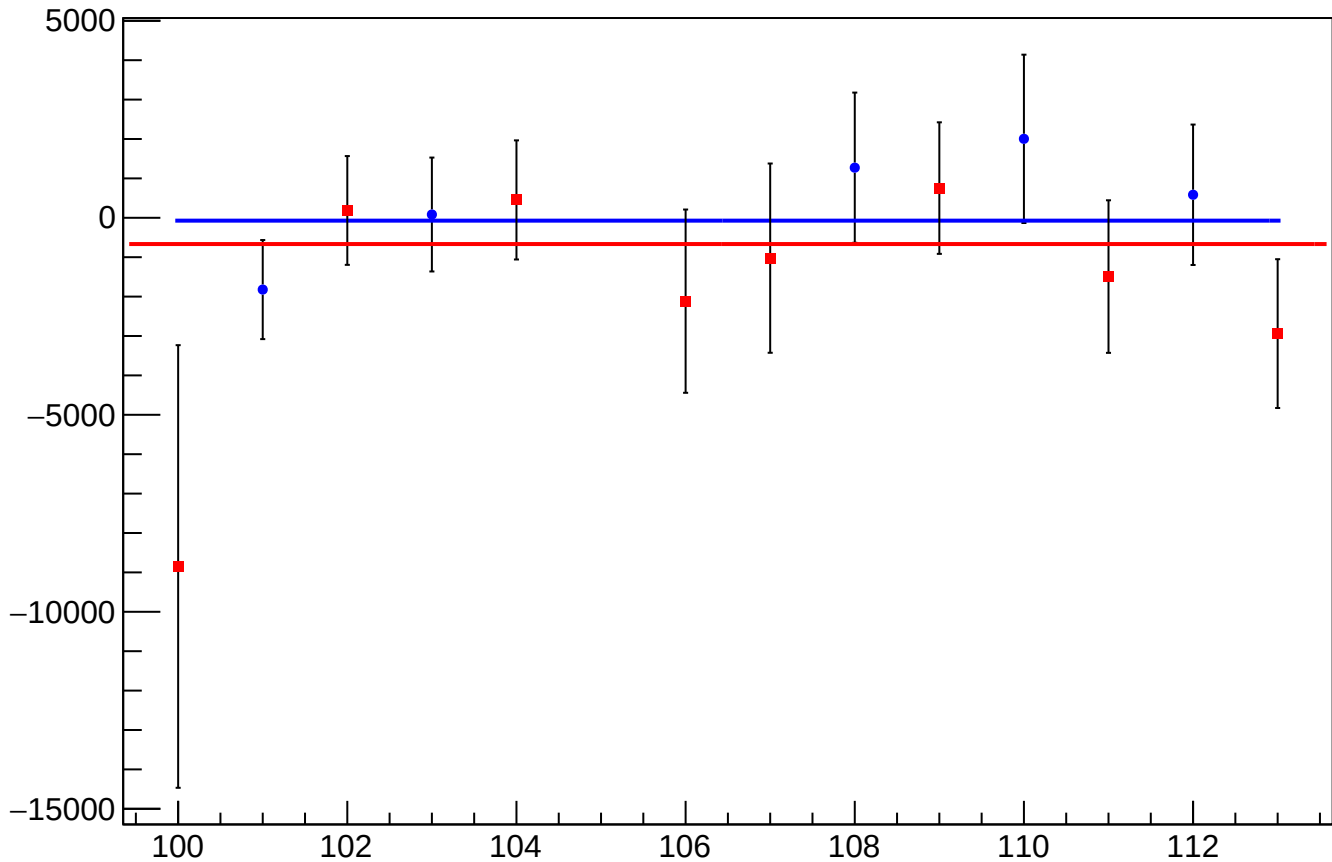
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 145.740 $\pm$ 0.043  $\chi^2$ /NDF: 42029.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_dit\_correction\_mean vs Slug



Right In:  $-72.346 \pm 721.574$   $\chi^2/\text{NDF}$ : 3.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-666.232 \pm 665.449$   $\chi^2/\text{NDF}$ : 5.8/7

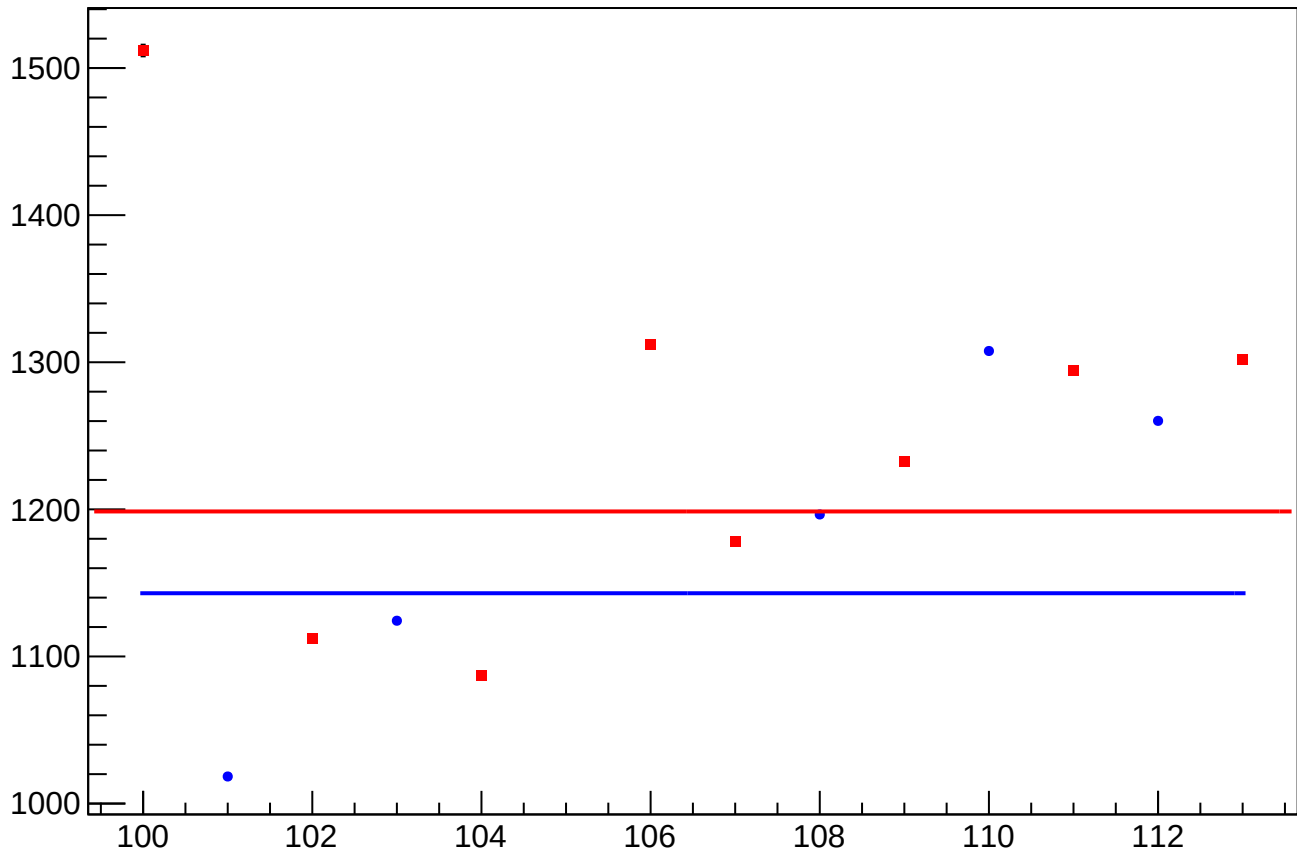
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-393.281 \pm 489.184$   $\chi^2/\text{NDF}$ : 9.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1526\_avg\_dit\_correction\_rms vs Slug



Right In: 1142.977 $\pm$ 0.510  $\chi^2$ /NDF: 42080.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1198.575 $\pm$ 0.471  $\chi^2$ /NDF: 41524.2/7

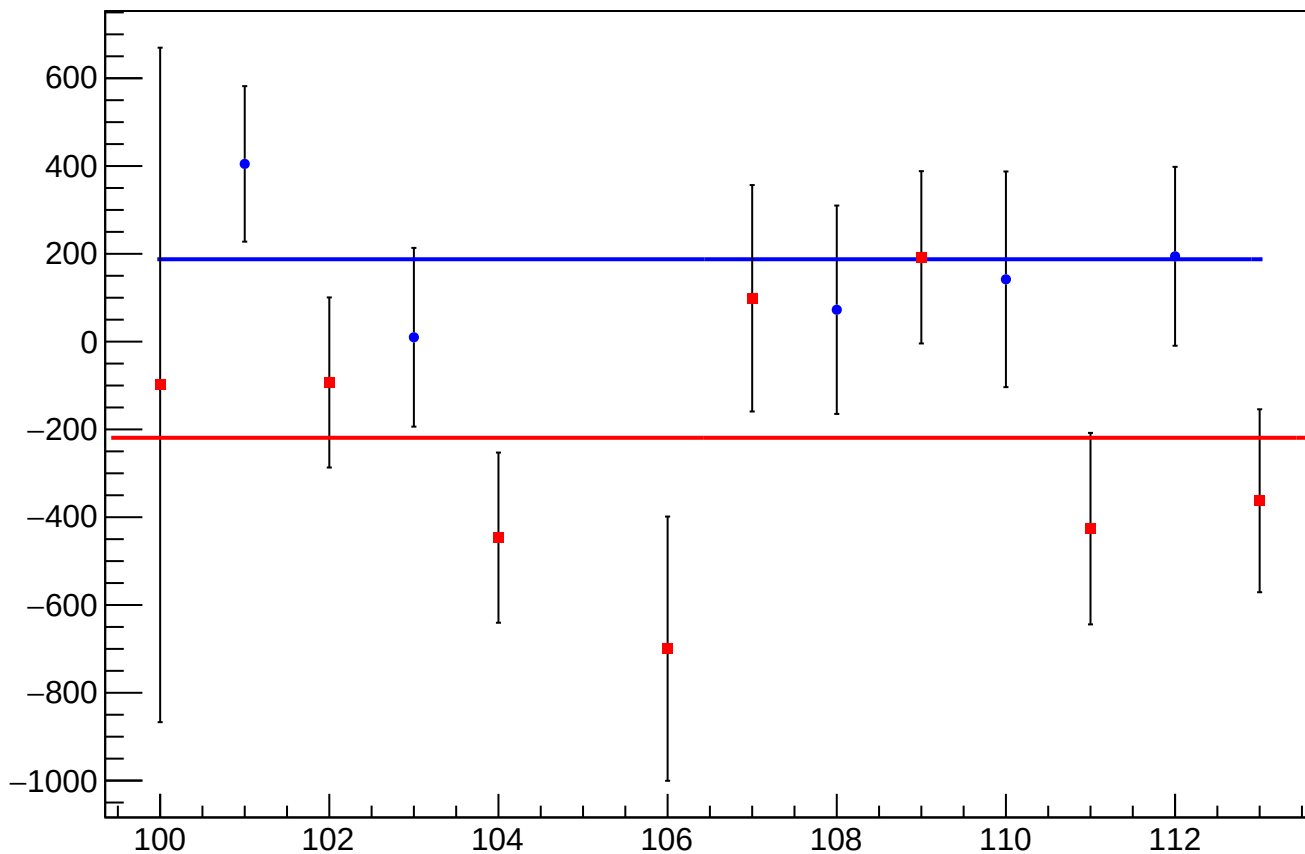
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1173.022 $\pm$ 0.346  $\chi^2$ /NDF: 90021.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 187.638 $\pm$ 93.493  $\chi^2$ /NDF: 2.5/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -219.067 $\pm$ -81.372  $\chi^2$ /NDF: 11.7/7

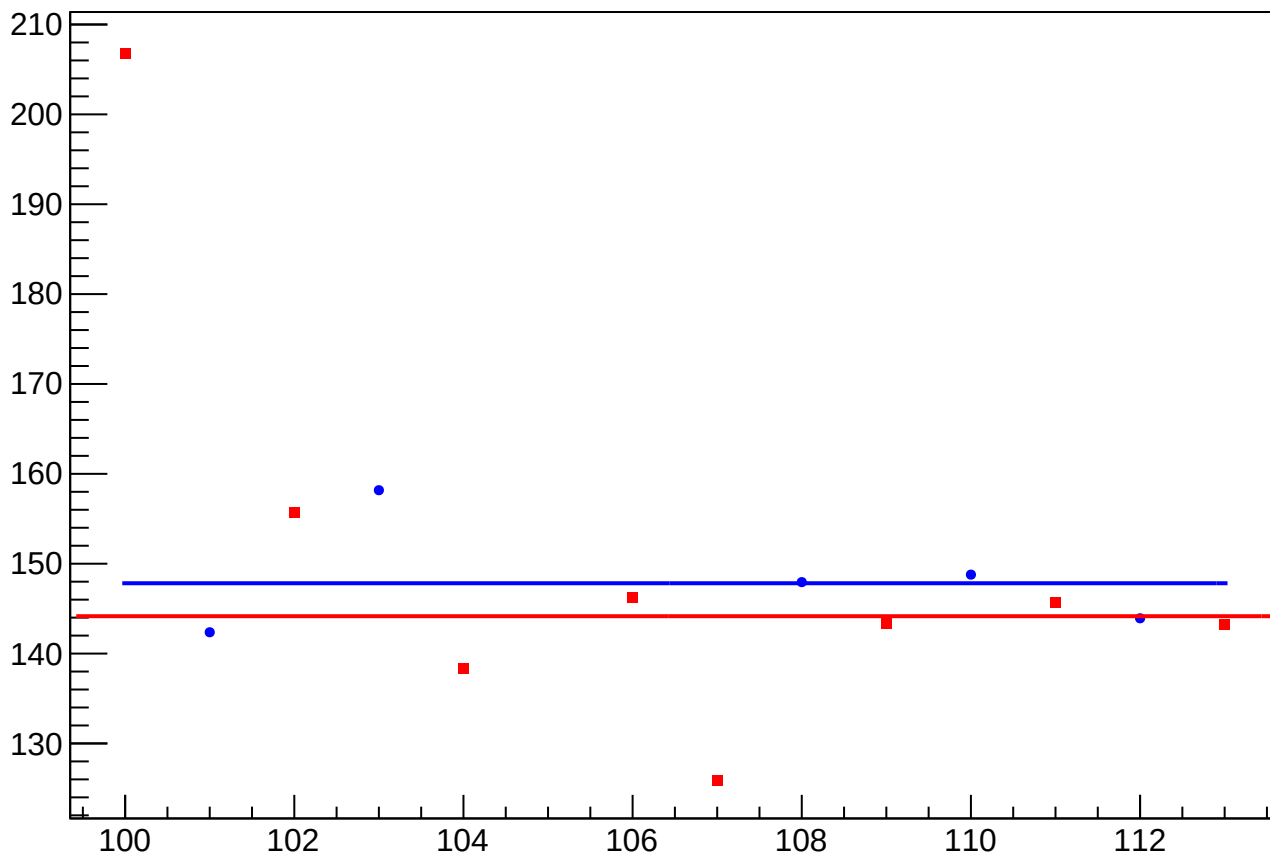
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -43.771 $\pm$ -61.380  $\chi^2$ /NDF: 25.0/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 147.826 $\pm$ 0.066  $\chi^2$ /NDF: 7830.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 144.158 $\pm$ 0.058  $\chi^2$ /NDF: 32445.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

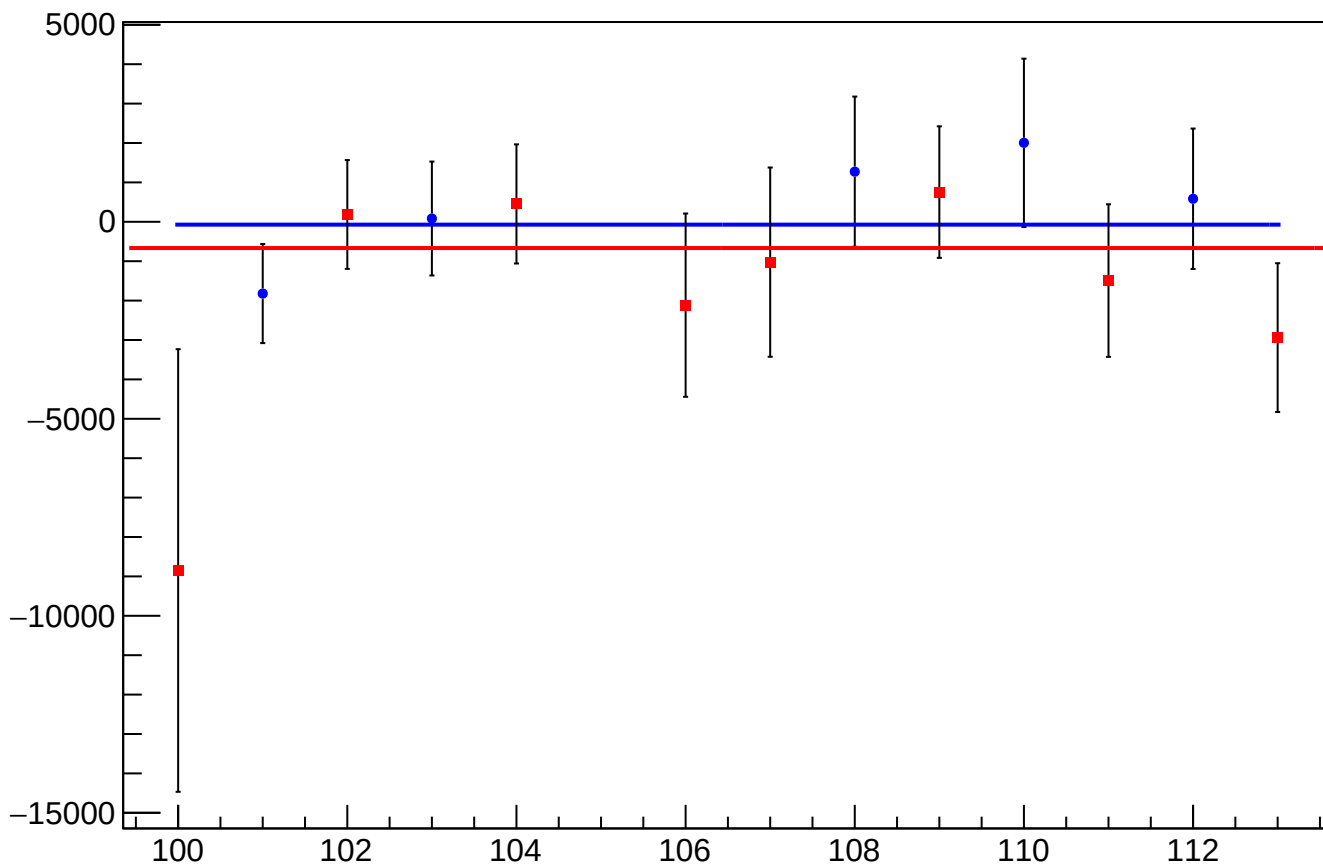
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 145.739 $\pm$ 0.043  $\chi^2$ /NDF: 42027.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1526\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -72.346 $\pm$ 721.572  $\chi^2/\text{NDF}$ : 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -666.230 $\pm$ 665.447  $\chi^2/\text{NDF}$ : 5.8/7

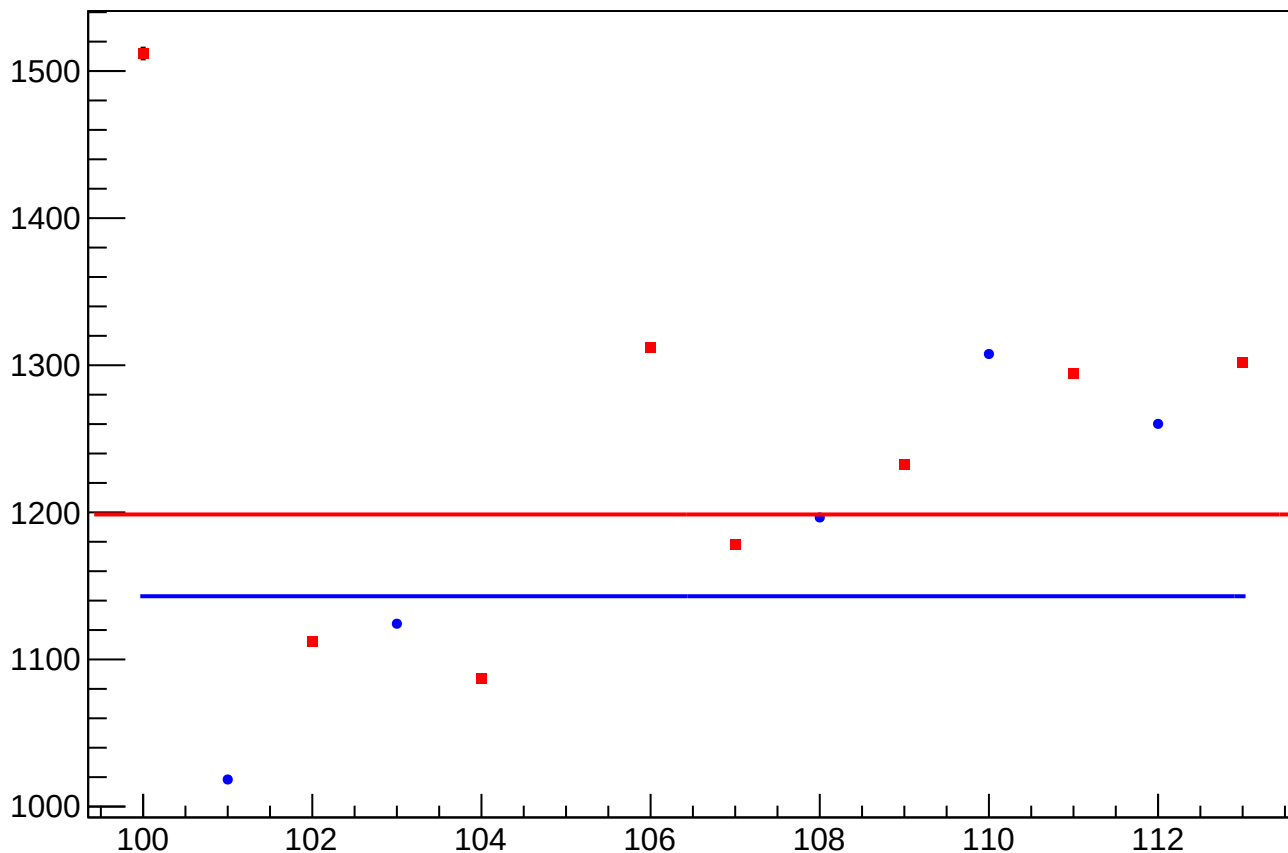
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -393.280 $\pm$ 489.182  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1142.974 $\pm$ 0.510  $\chi^2$ /NDF: 42078.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1198.571 $\pm$ 0.471  $\chi^2$ /NDF: 41524.0/7

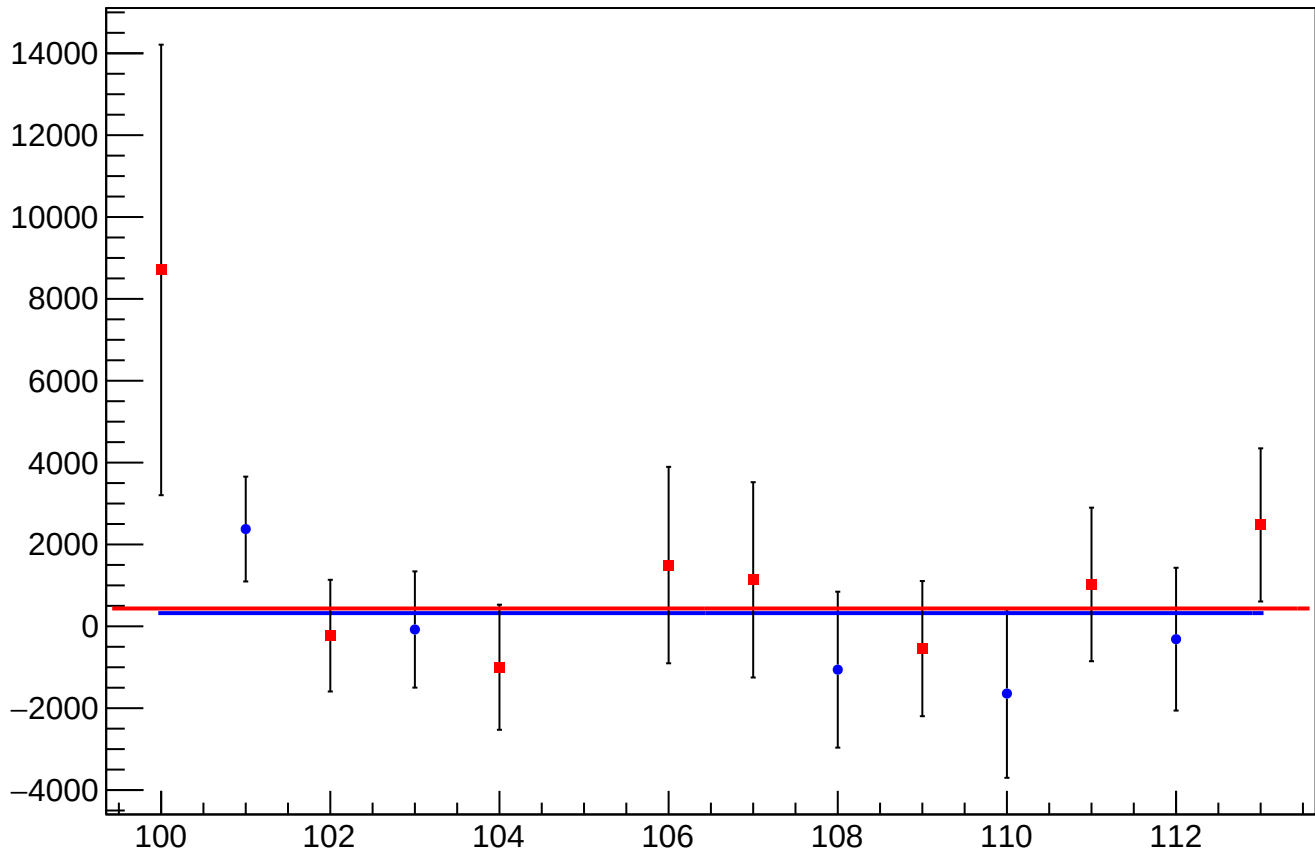
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1173.019 $\pm$ 0.346  $\chi^2$ /NDF: 90018.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1526\_avg\_mean vs Slug



Right In: 322.827+/-716.921  $\chi^2/\text{NDF}$ : 4.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 435.822+/-661.654  $\chi^2/\text{NDF}$ : 5.3/7

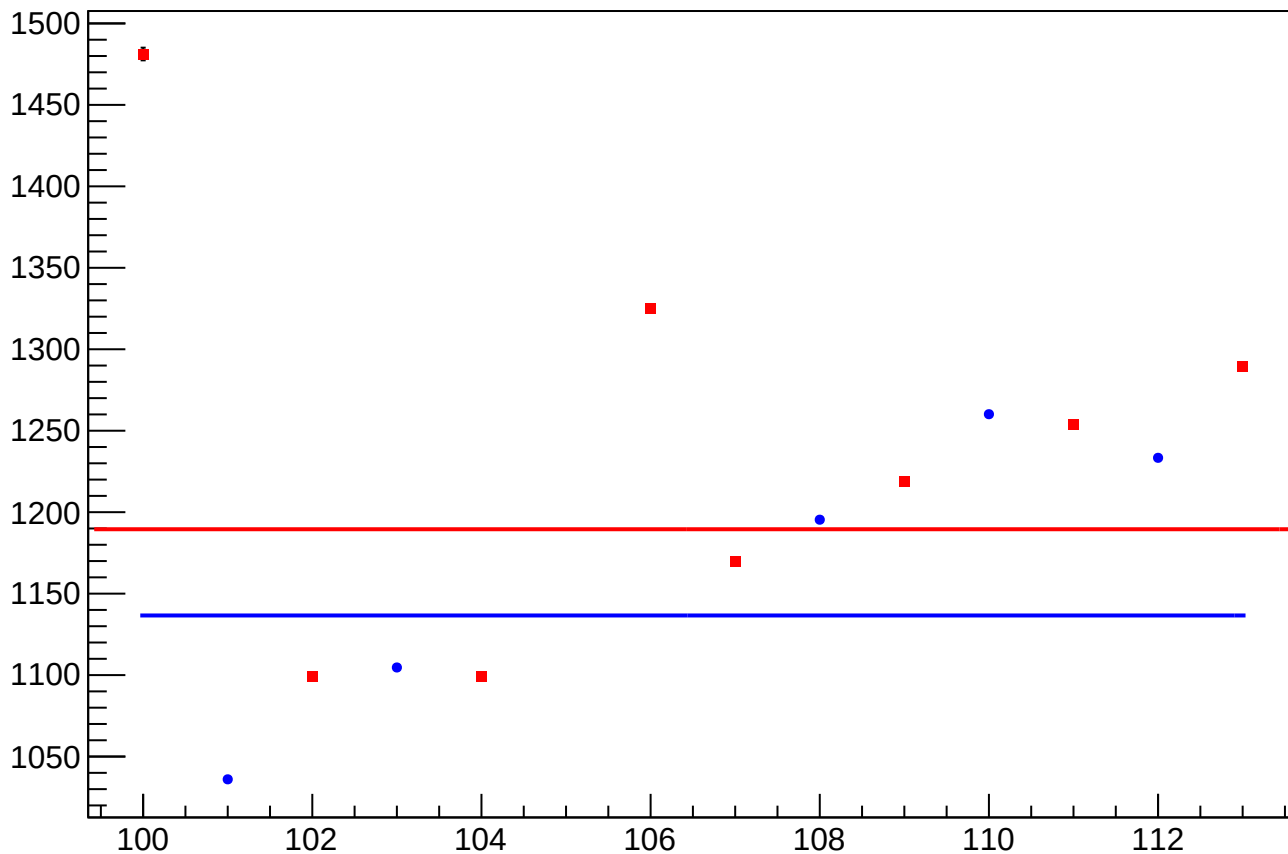
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 383.847+/-486.226  $\chi^2/\text{NDF}$ : 9.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1526\_avg\_rms vs Slug



Right In: 1136.599+/-0.507  $\chi^2/\text{NDF}$ : 28608.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1189.530+/-0.468  $\chi^2/\text{NDF}$ : 36571.9/7

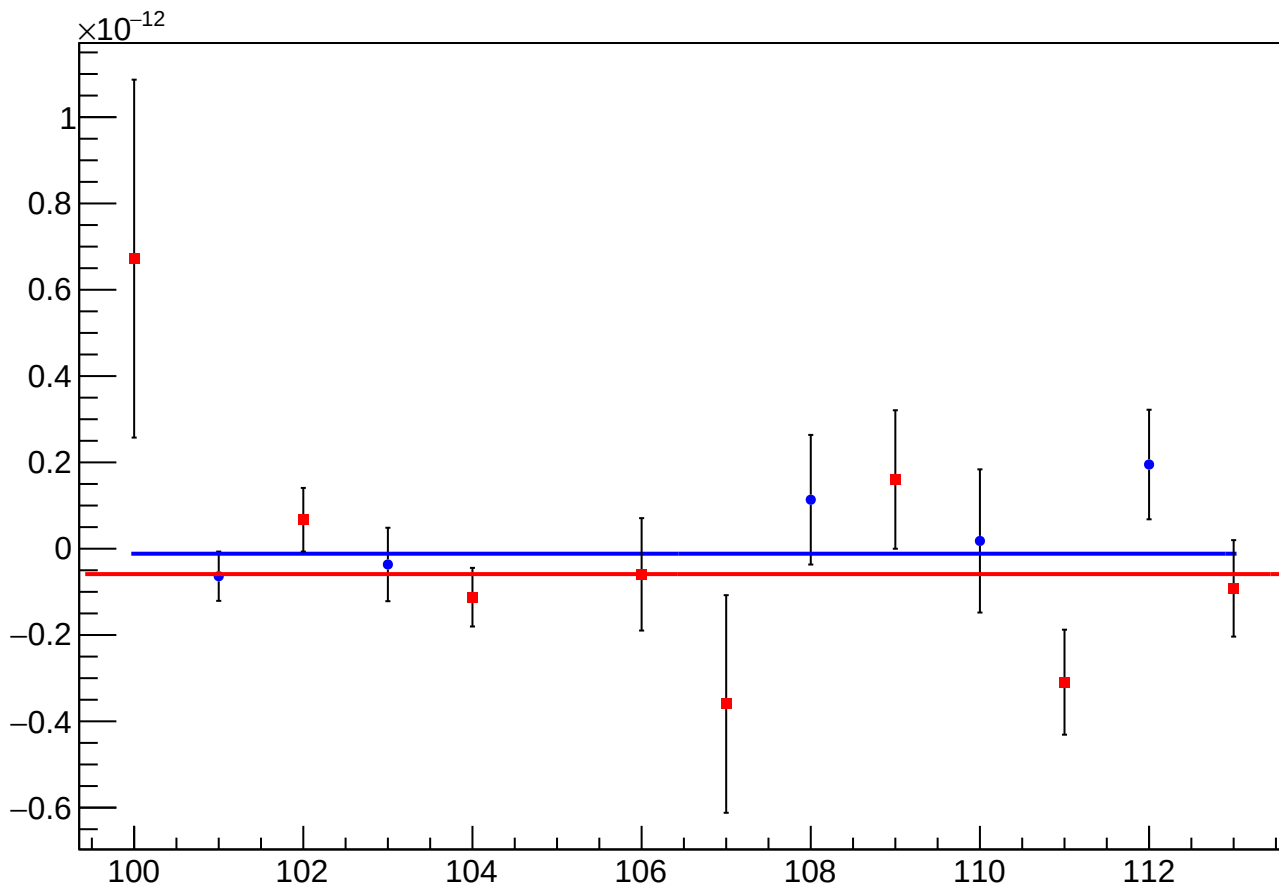
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1165.183+/-0.344  $\chi^2/\text{NDF}$ : 71067.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.3/7

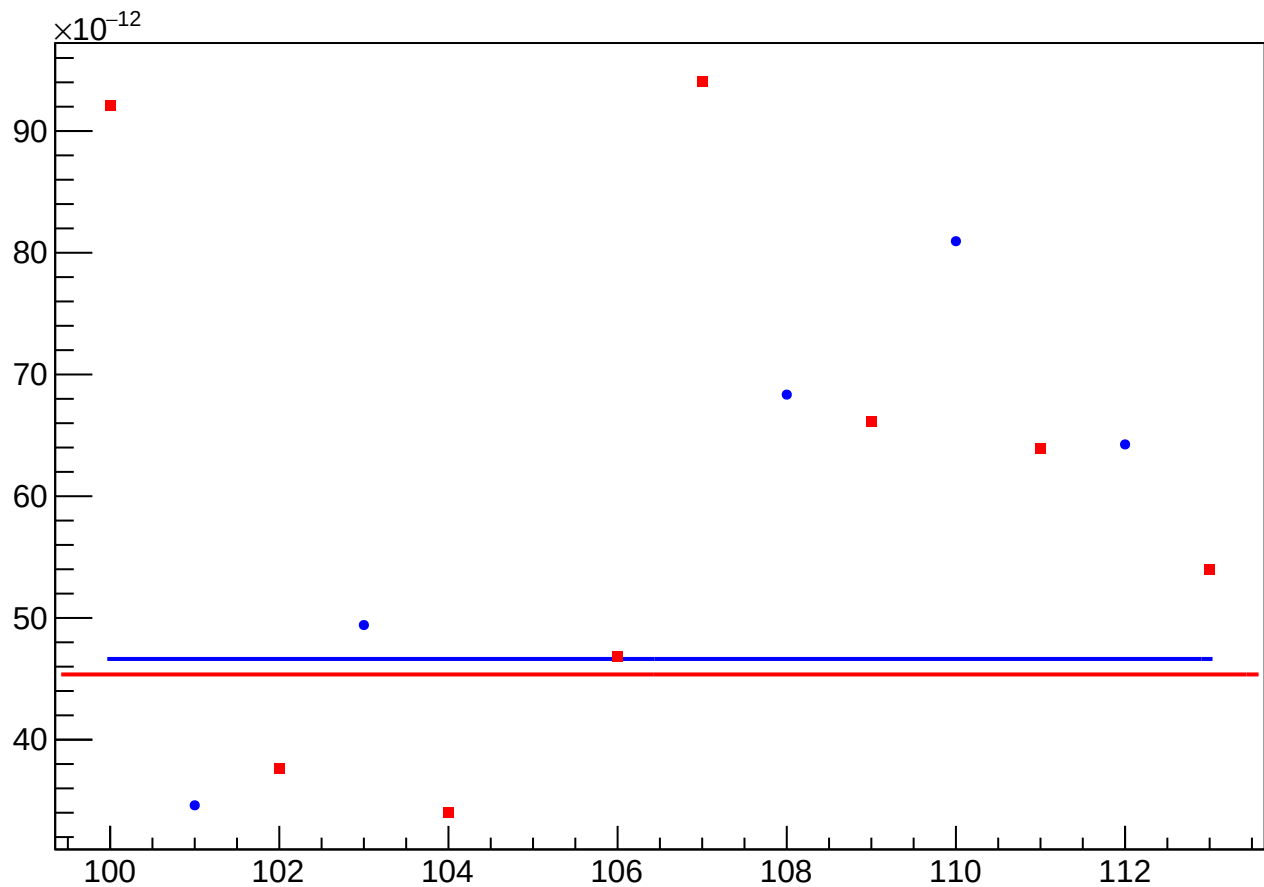
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 256782.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 270163.1/7

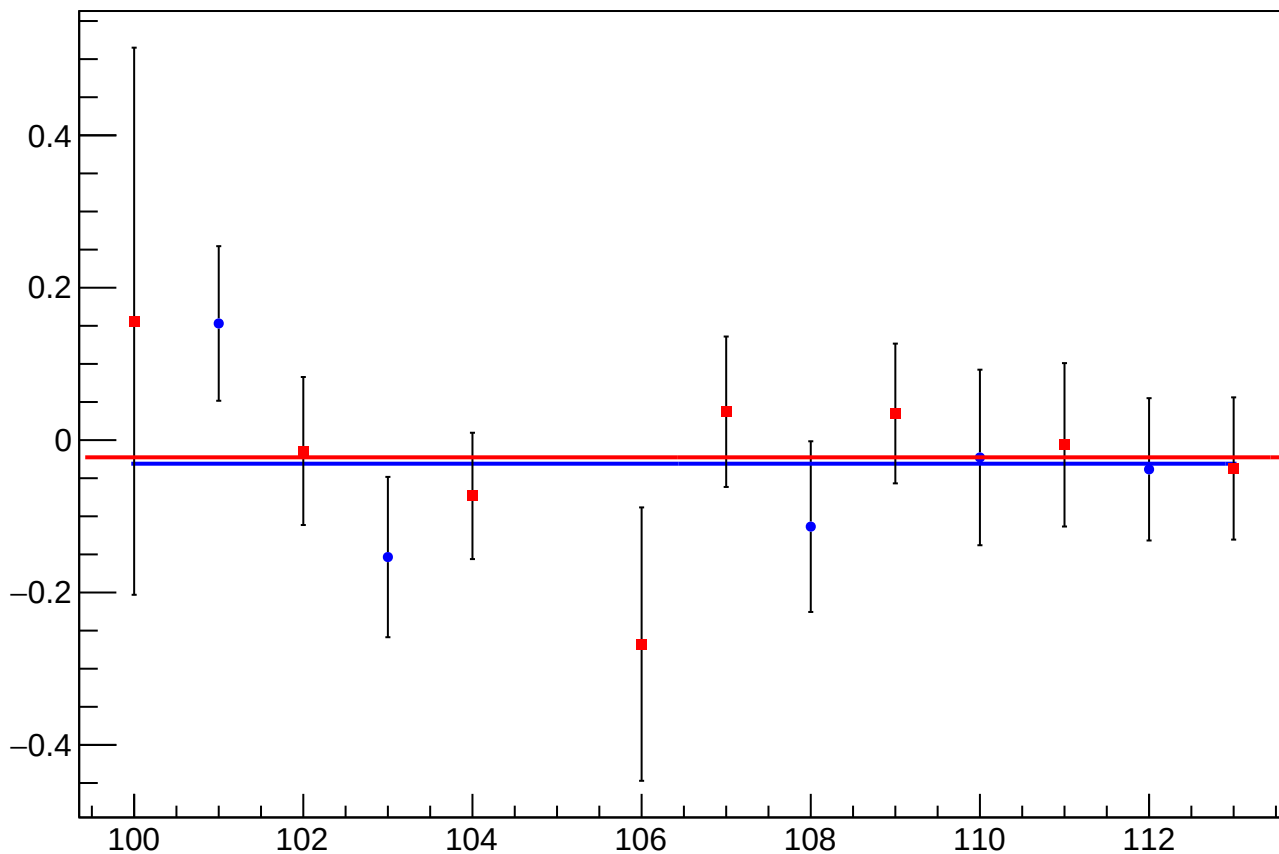
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 527958.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.031 $\pm$ 0.047  $\chi^2$ /NDF: 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.023 $\pm$ 0.037  $\chi^2$ /NDF: 3.3/7

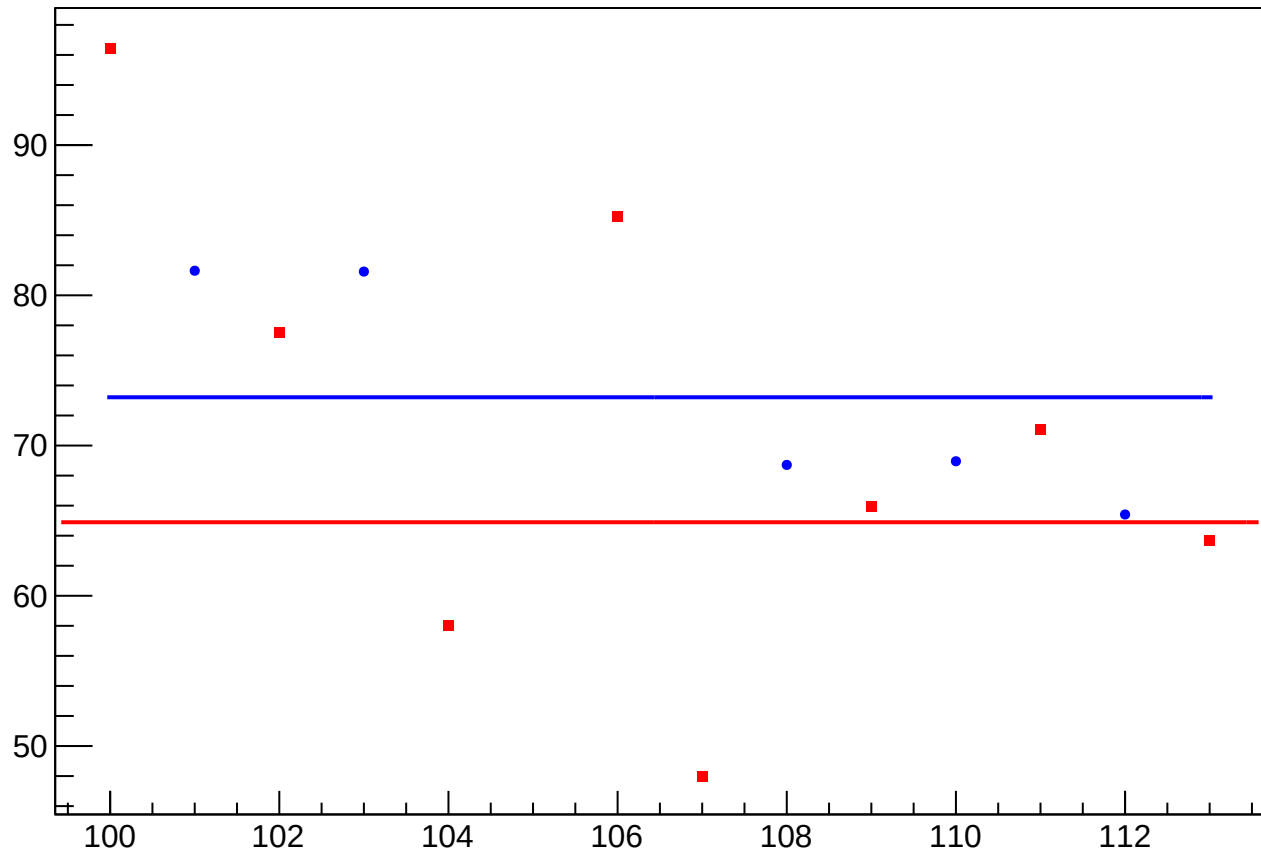
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.026 $\pm$ 0.029  $\chi^2$ /NDF: 8.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 73.214+/-0.033  $\chi^2/\text{NDF}$ : 46358.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.895+/-0.026  $\chi^2/\text{NDF}$ : 155035.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

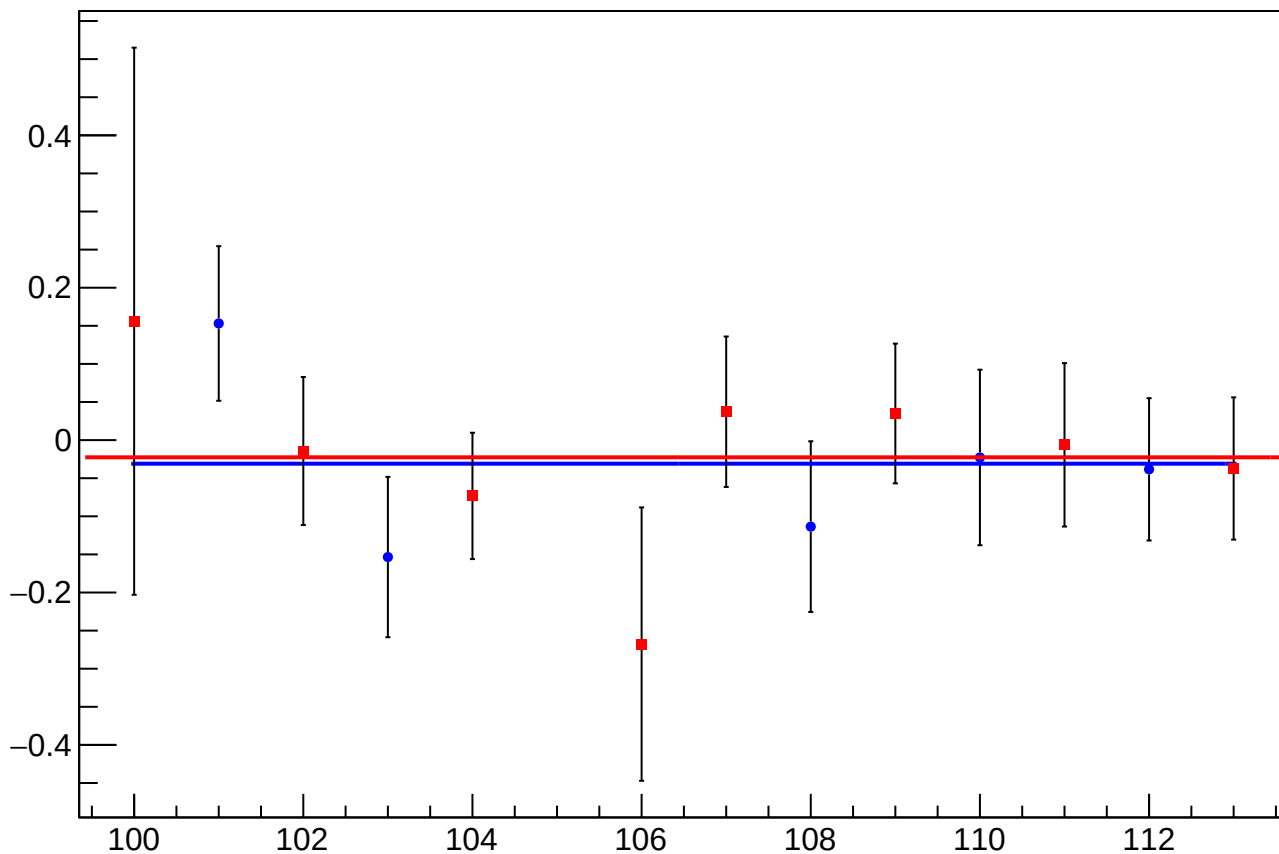
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 68.144+/-0.021  $\chi^2/\text{NDF}$ : 239965.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1526\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.031 $\pm$ 0.047  $\chi^2$ /NDF: 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.023 $\pm$ 0.037  $\chi^2$ /NDF: 3.3/7

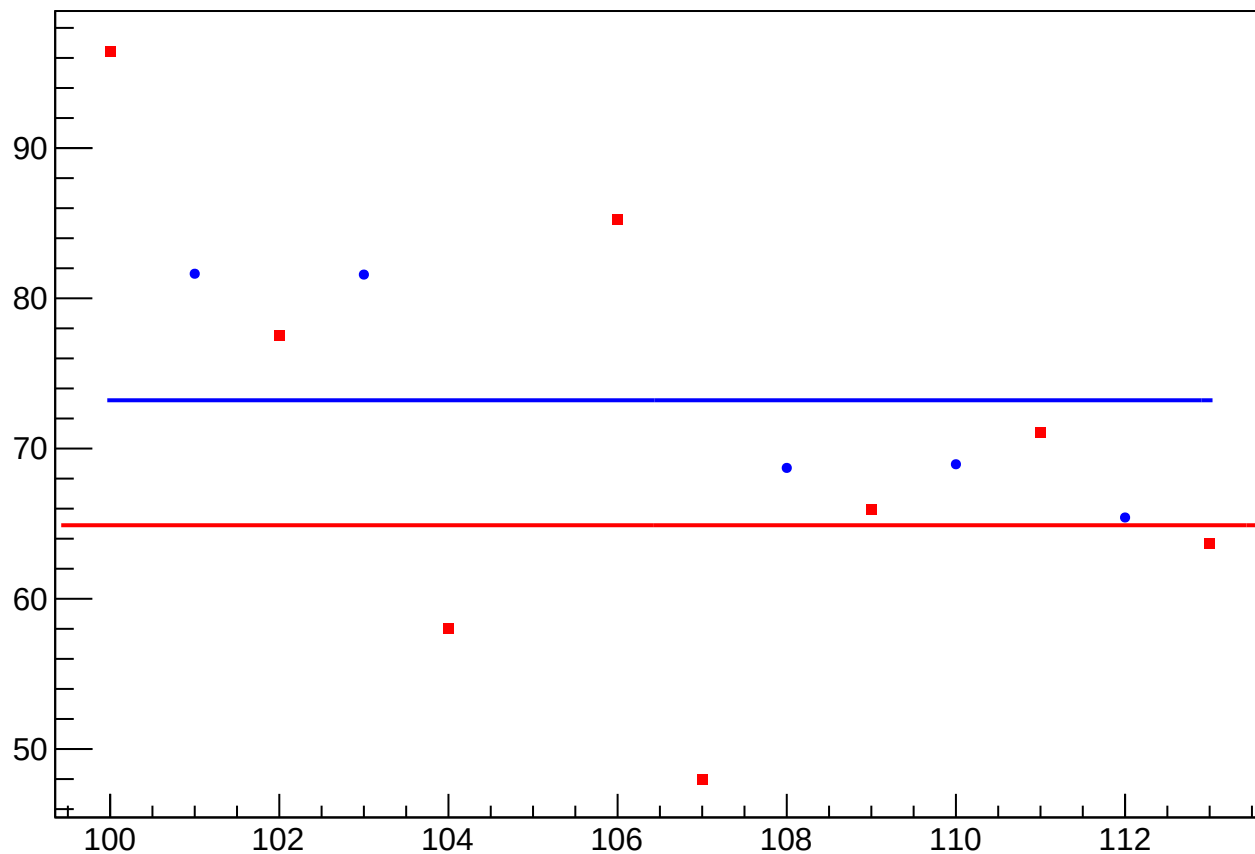
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.026 $\pm$ 0.029  $\chi^2$ /NDF: 8.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 73.214 $\pm$ 0.033  $\chi^2$ /NDF: 46358.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 64.895 $\pm$ 0.026  $\chi^2$ /NDF: 155035.2/7

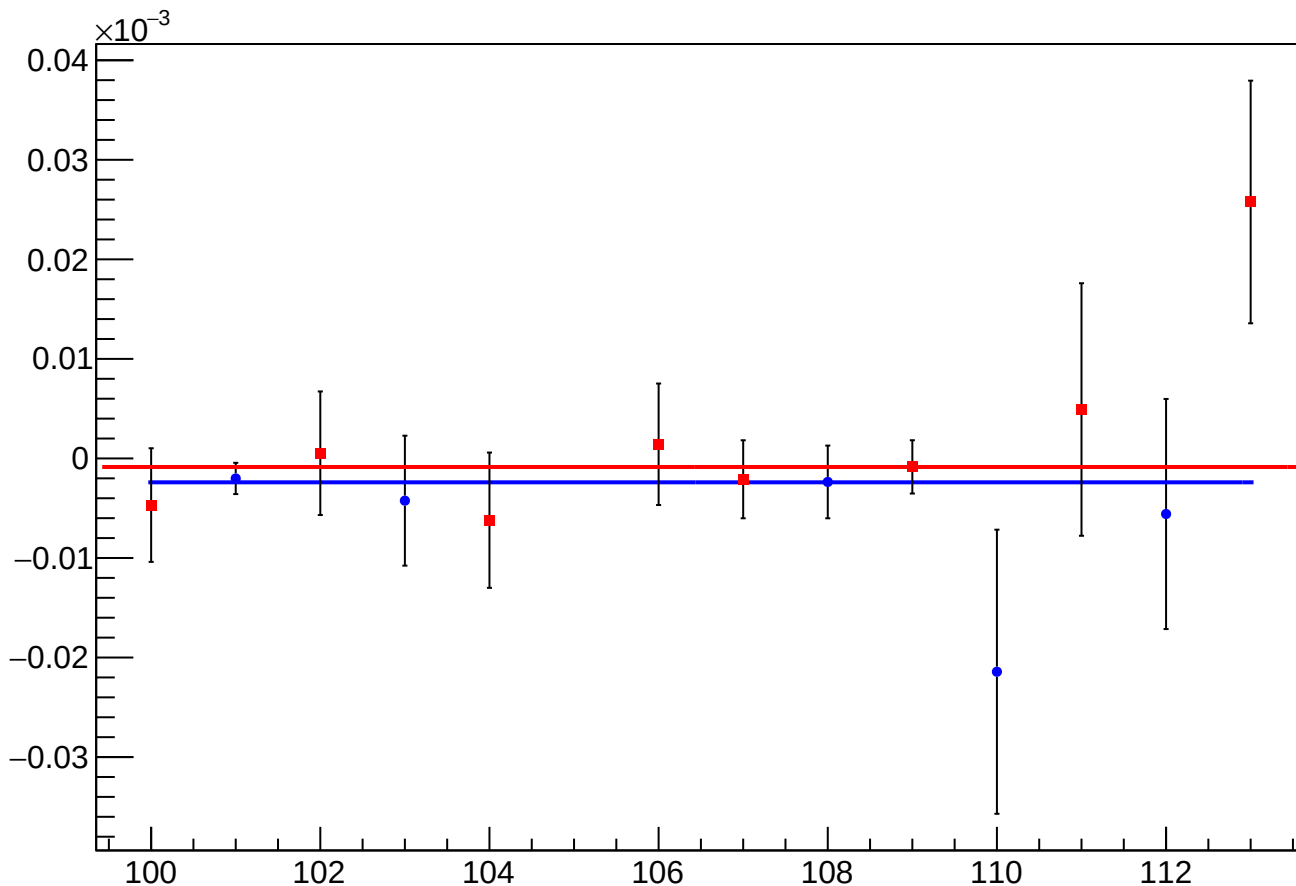
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 68.144 $\pm$ 0.021  $\chi^2$ /NDF: 239965.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.3/7

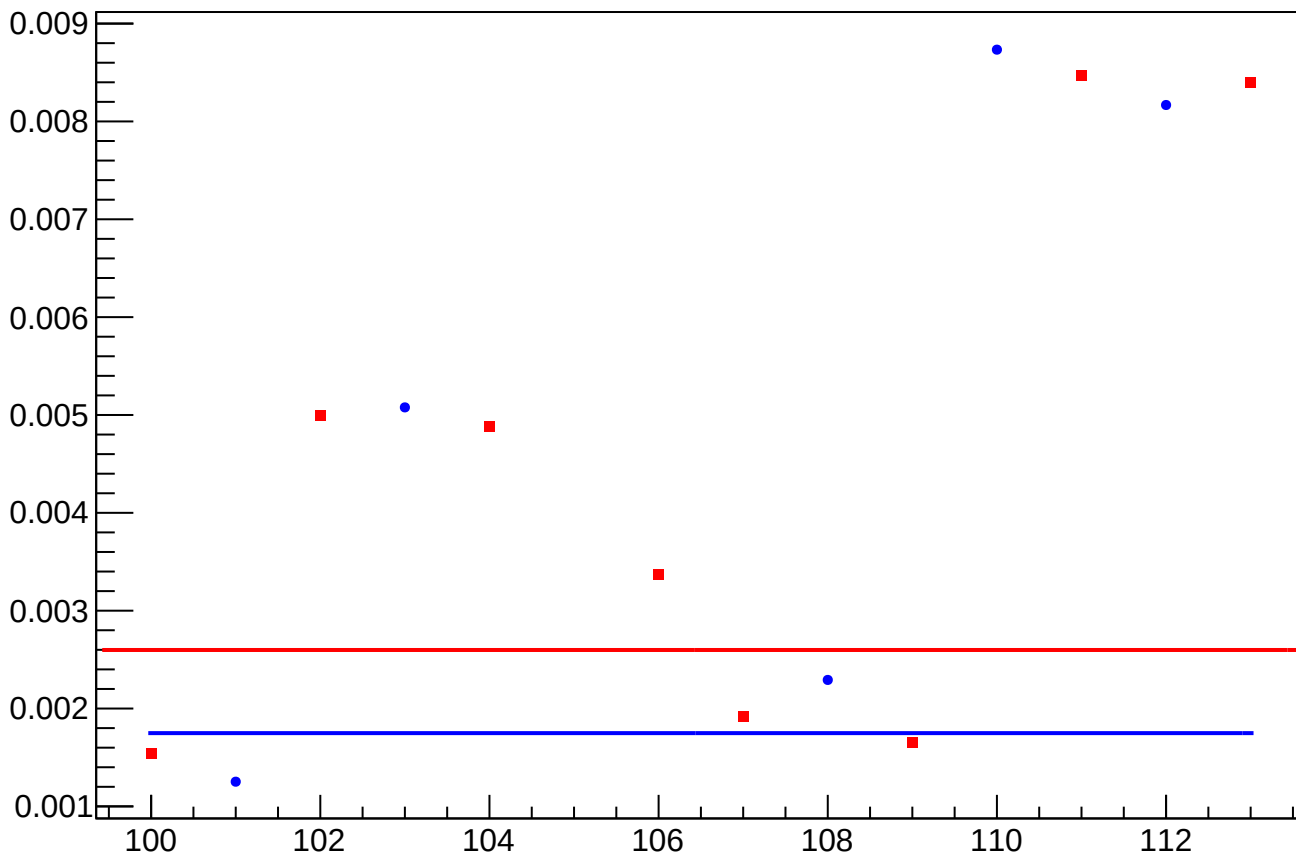
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1860602.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1814866.1/7

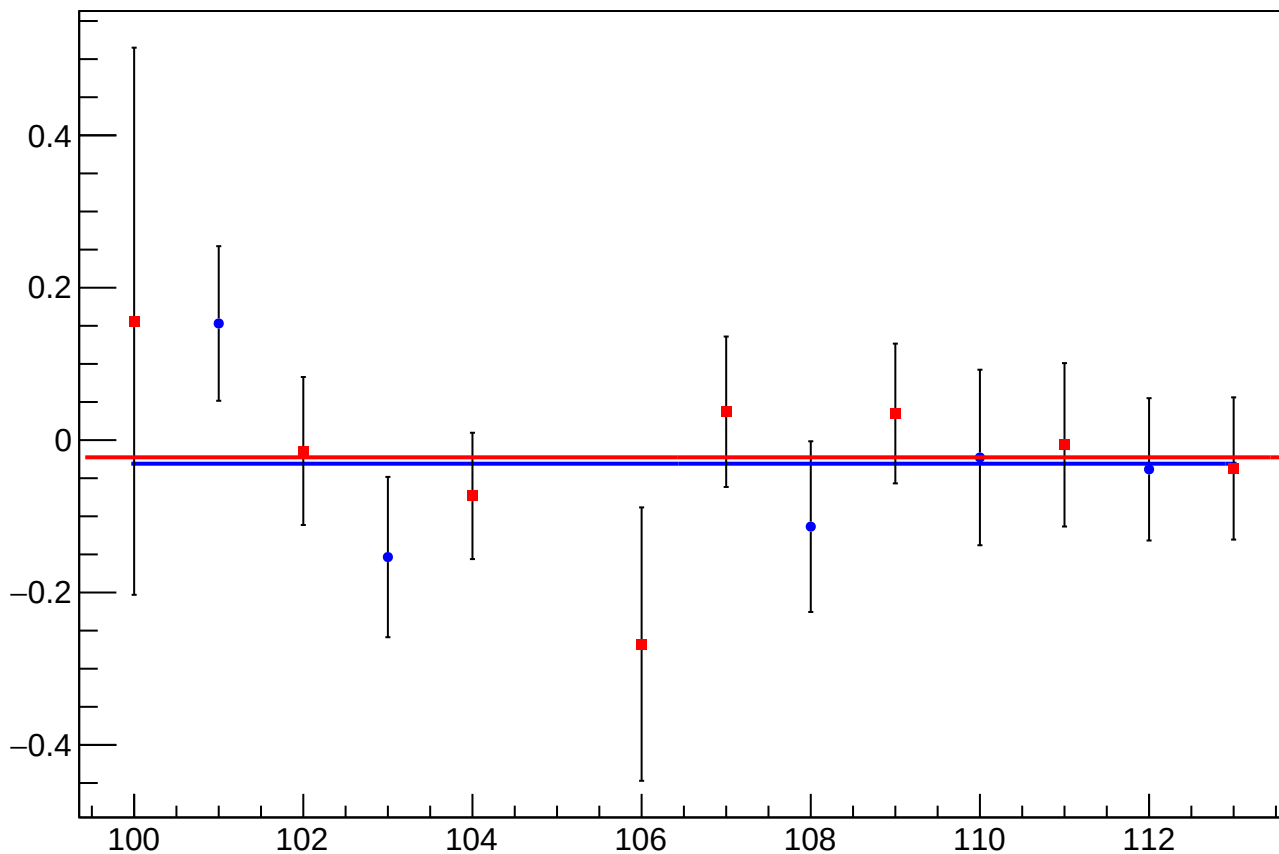
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3962308.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.031 $\pm$ 0.047  $\chi^2$ /NDF: 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.023 $\pm$ 0.037  $\chi^2$ /NDF: 3.3/7

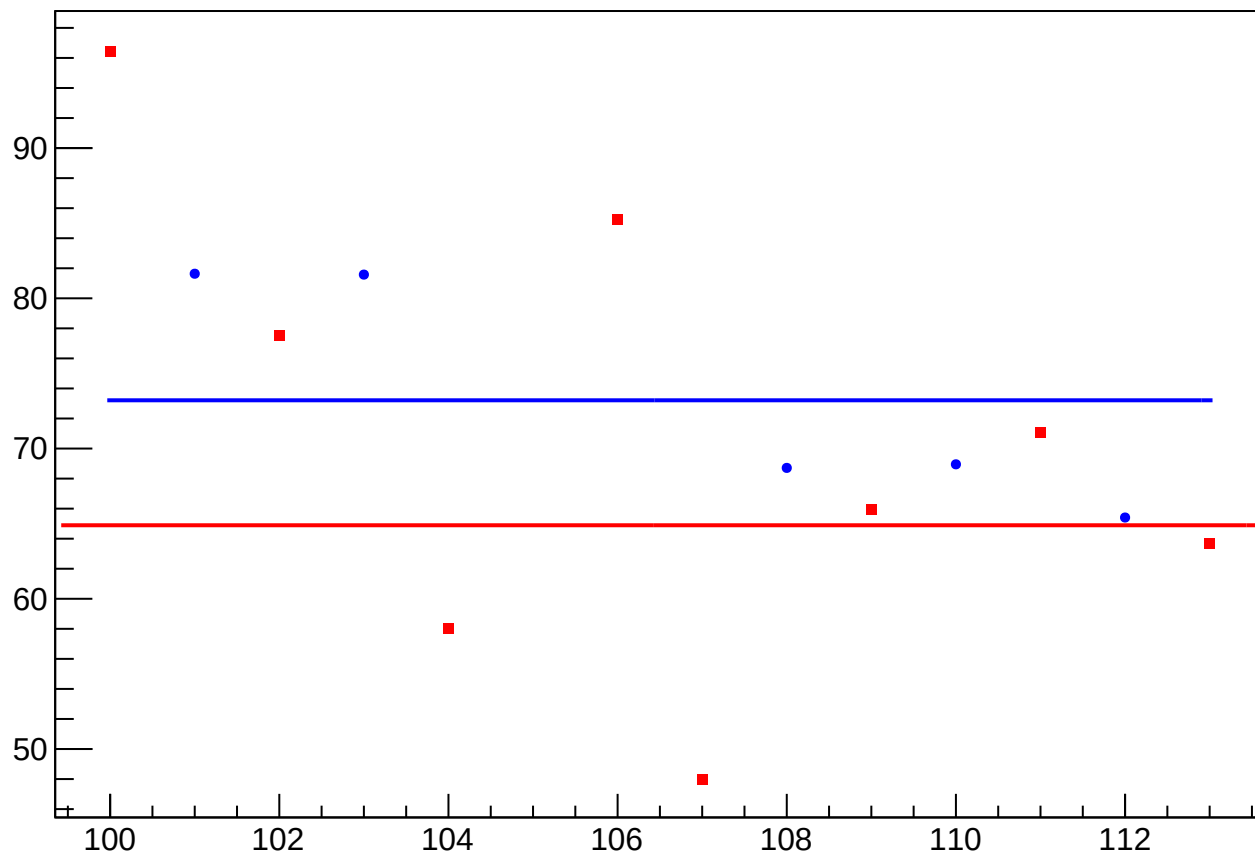
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.026 $\pm$ 0.029  $\chi^2$ /NDF: 8.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 73.212 $\pm$ 0.033  $\chi^2$ /NDF: 46371.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 64.894 $\pm$ 0.026  $\chi^2$ /NDF: 155024.6/7

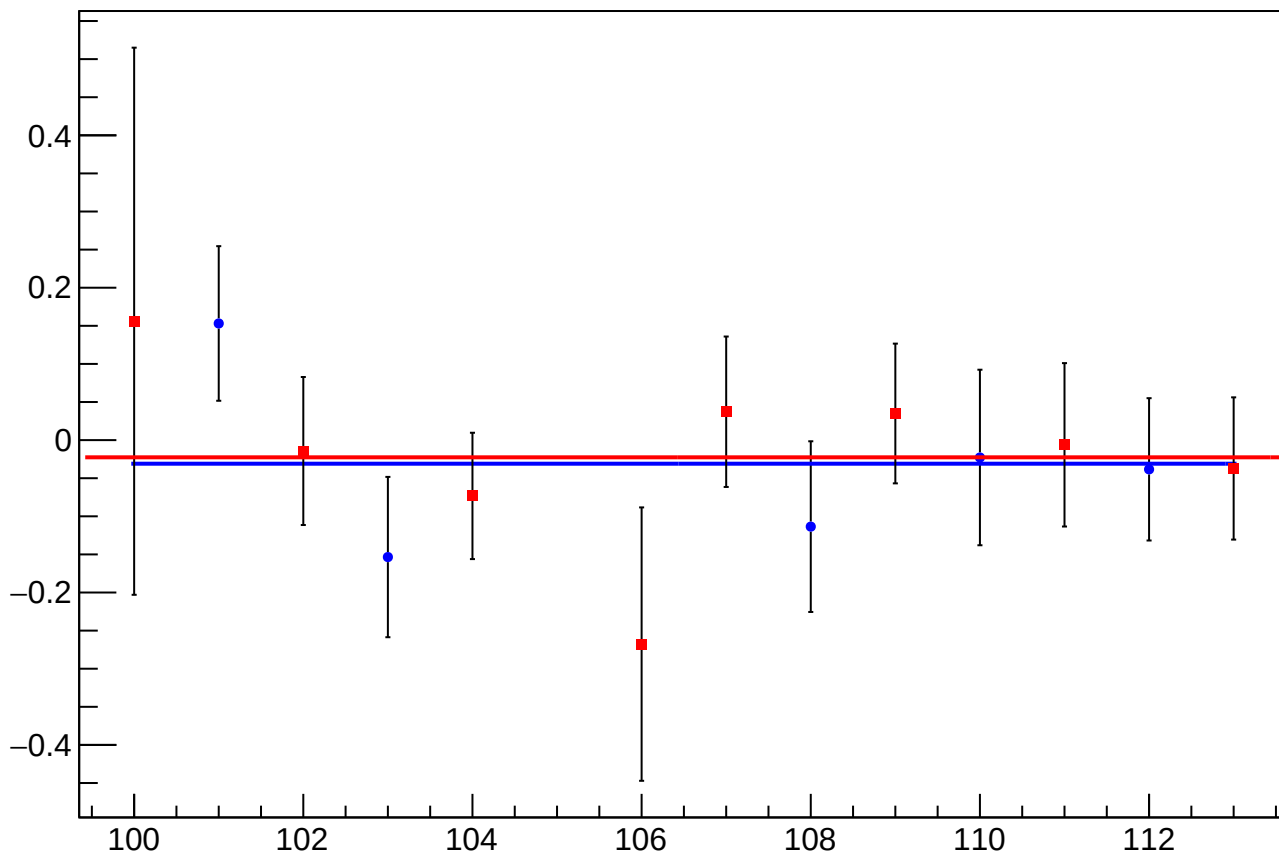
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 68.142 $\pm$ 0.021  $\chi^2$ /NDF: 239963.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.031 $\pm$ 0.047  $\chi^2/\text{NDF}$ : 5.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.023 $\pm$ 0.037  $\chi^2/\text{NDF}$ : 3.3/7

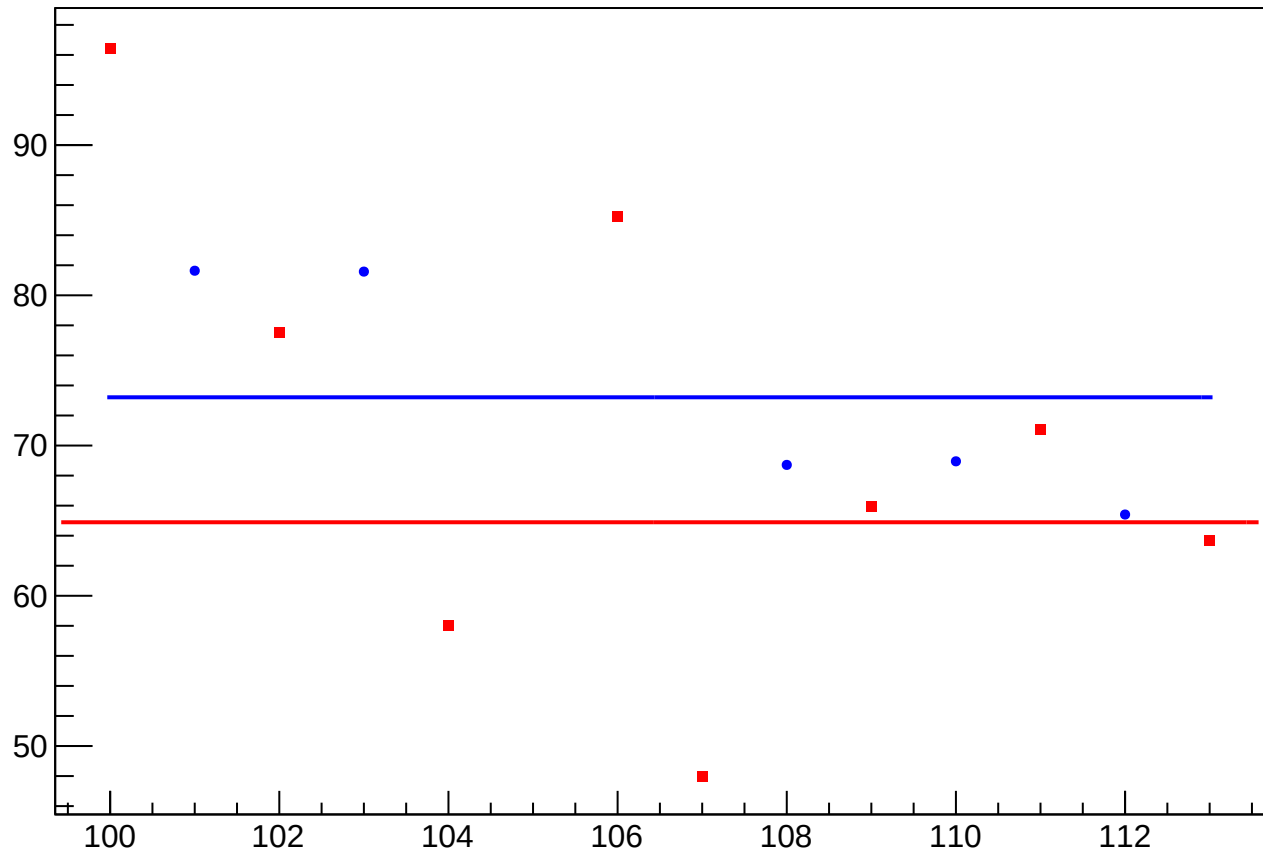
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.026 $\pm$ 0.029  $\chi^2/\text{NDF}$ : 8.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 73.212 $\pm$ 0.033  $\chi^2$ /NDF: 46371.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 64.894 $\pm$ 0.026  $\chi^2$ /NDF: 155024.6/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

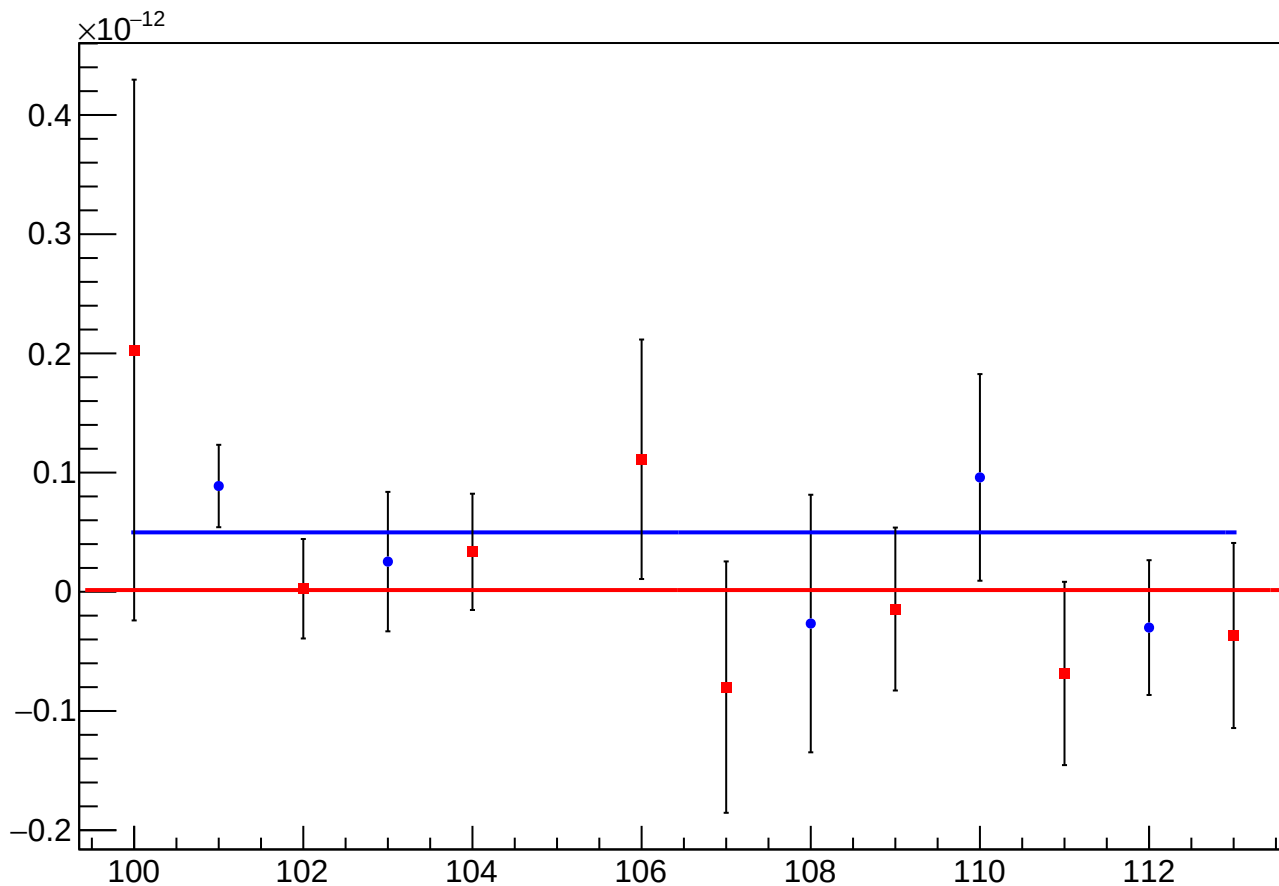
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 68.142 $\pm$ 0.021  $\chi^2$ /NDF: 239963.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1526\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.1/7

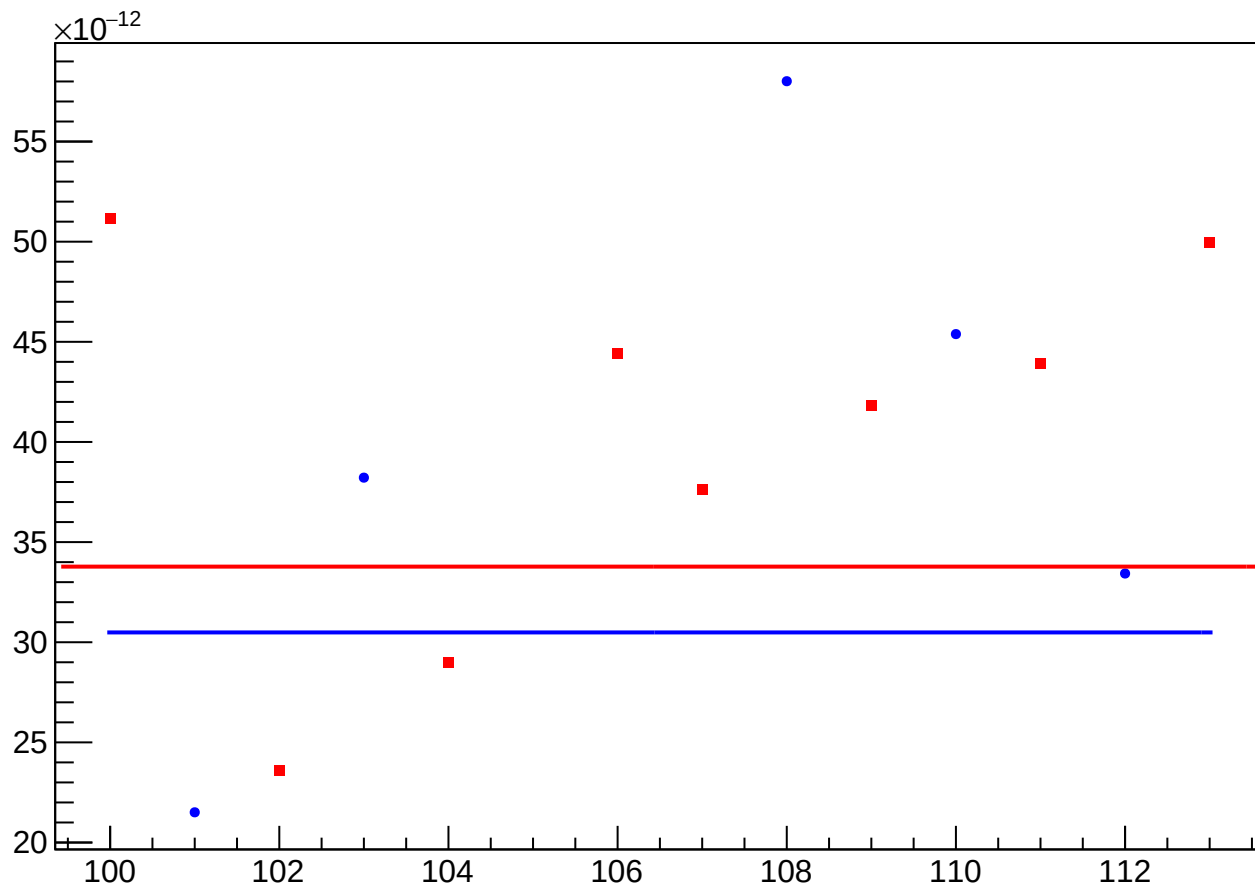
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 364256.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 324783.1/7

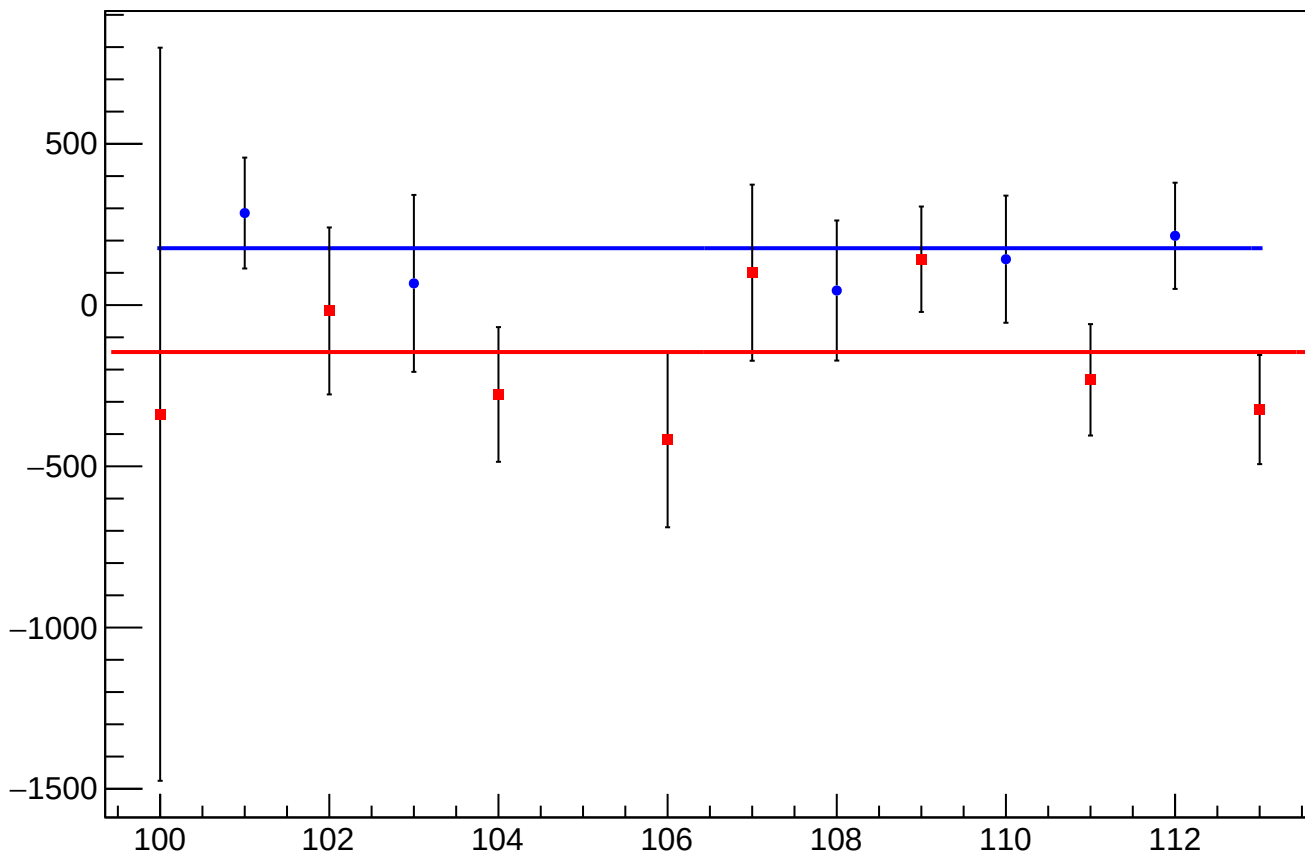
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 707454.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 176.387 $\pm$ 87.398  $\chi^2$ /NDF: 1.0/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -145.616 $\pm$ -76.360  $\chi^2$ /NDF: 6.9/7

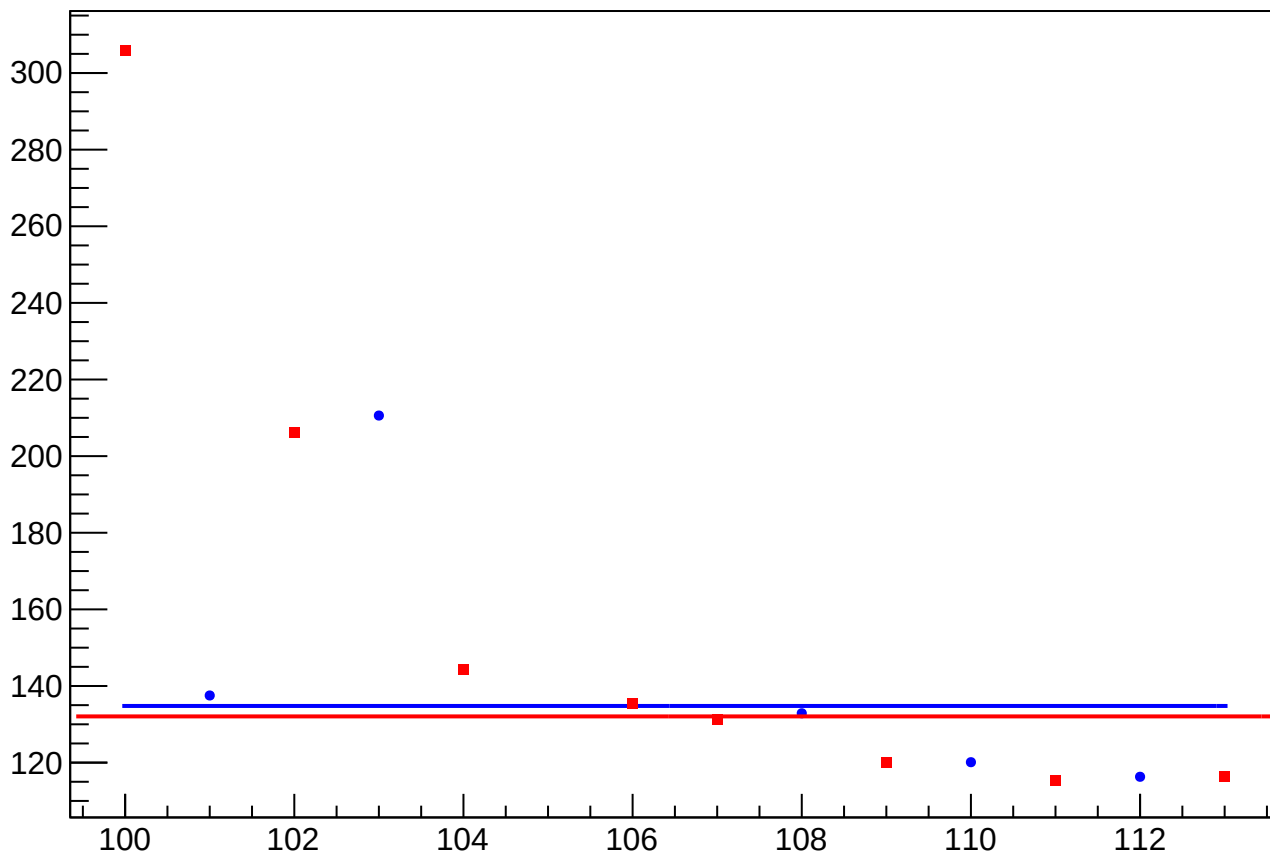
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -6.221 $\pm$ -57.503  $\chi^2$ /NDF: 15.7/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 134.790 $\pm$ 0.062  $\chi^2$ /NDF: 189669.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 132.063 $\pm$ 0.054  $\chi^2$ /NDF: 264241.8/7

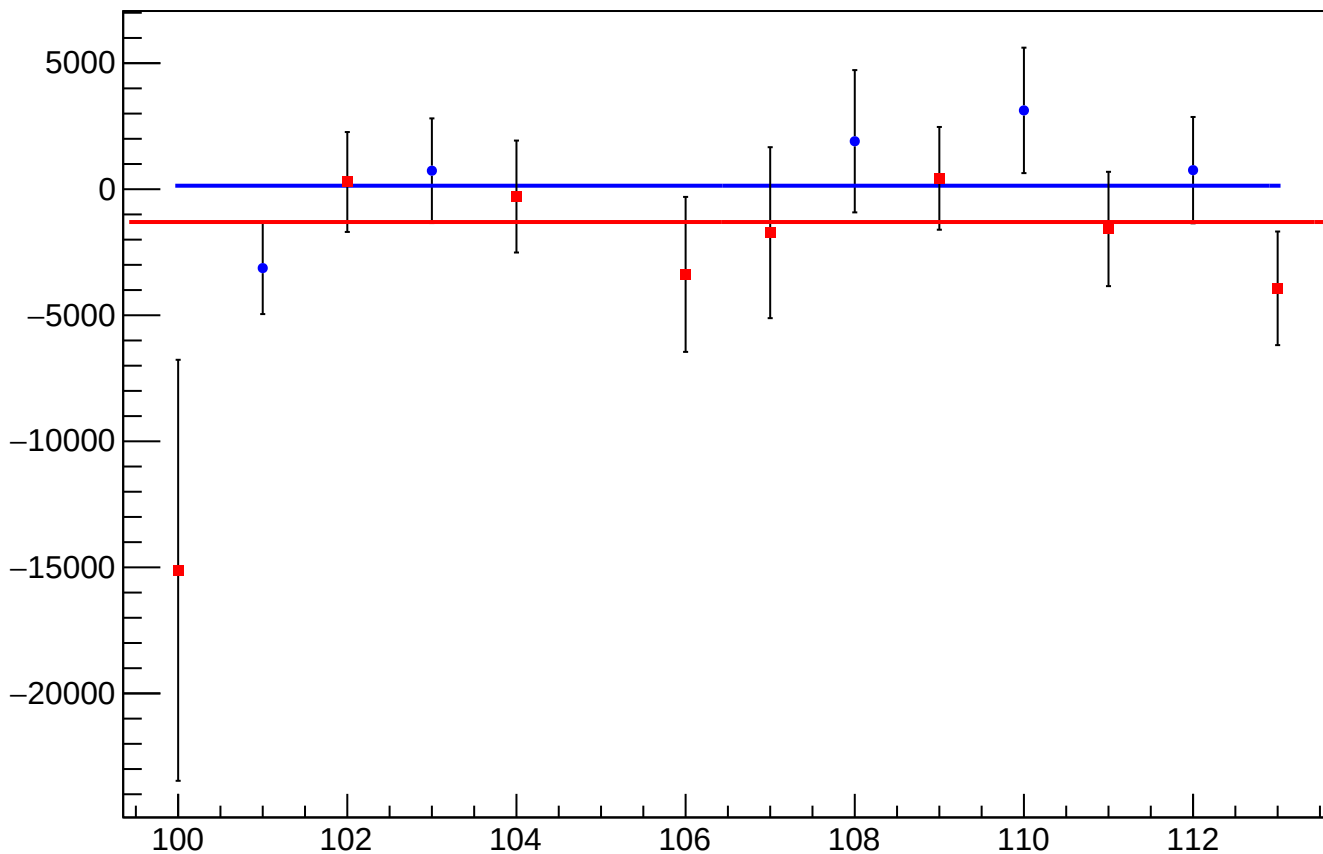
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 133.244 $\pm$ 0.041  $\chi^2$ /NDF: 455015.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_reg\_correction\_mean vs Slug



Right In: 138.992+/-978.531  $\chi^2/\text{NDF}$ : 5.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1301.072+/-878.129  $\chi^2/\text{NDF}$ : 6.2/7

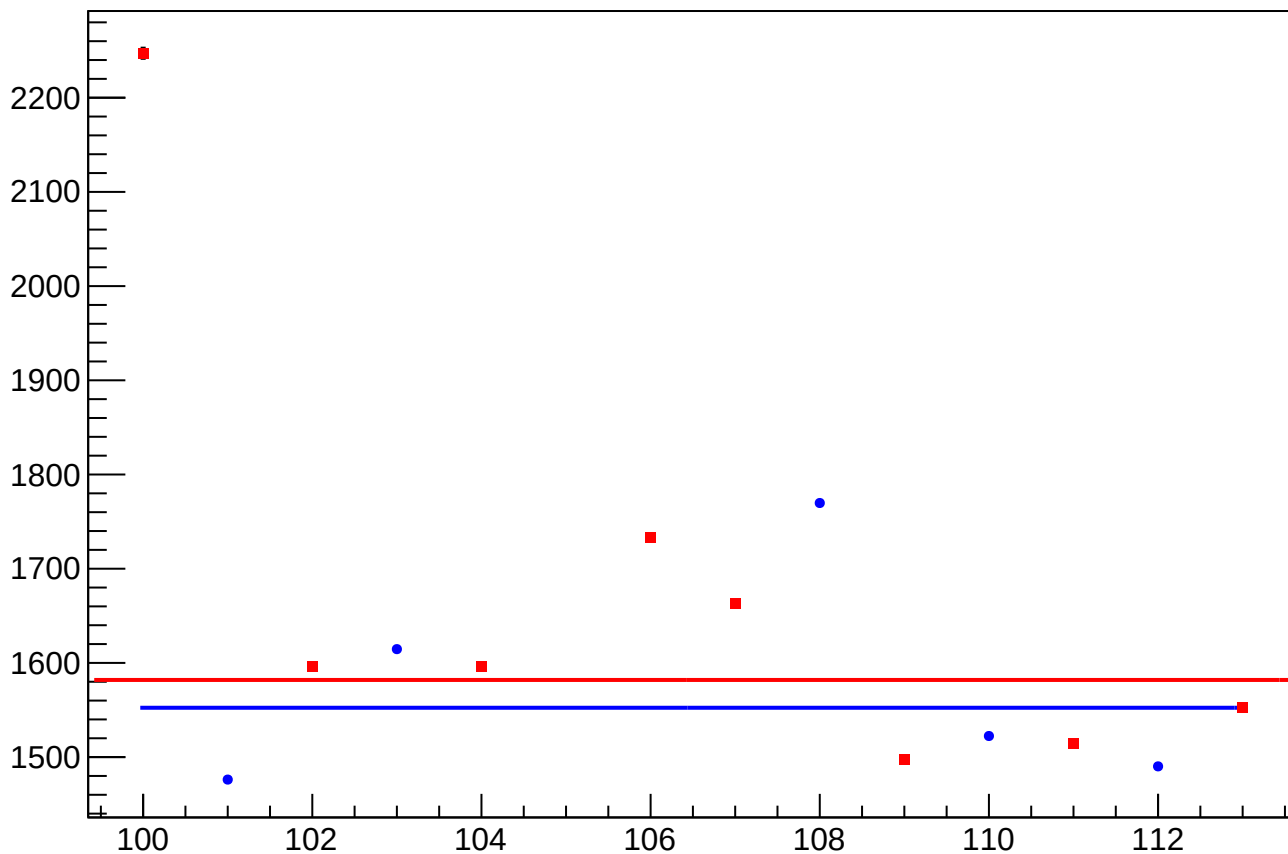
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -658.686+/-653.554  $\chi^2/\text{NDF}$ : 12.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_reg\_correction\_rms vs Slug



Right In: 1552.394+/-0.692  $\chi^2/\text{NDF}$ : 19186.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1581.906+/-0.621  $\chi^2/\text{NDF}$ : 24364.2/7

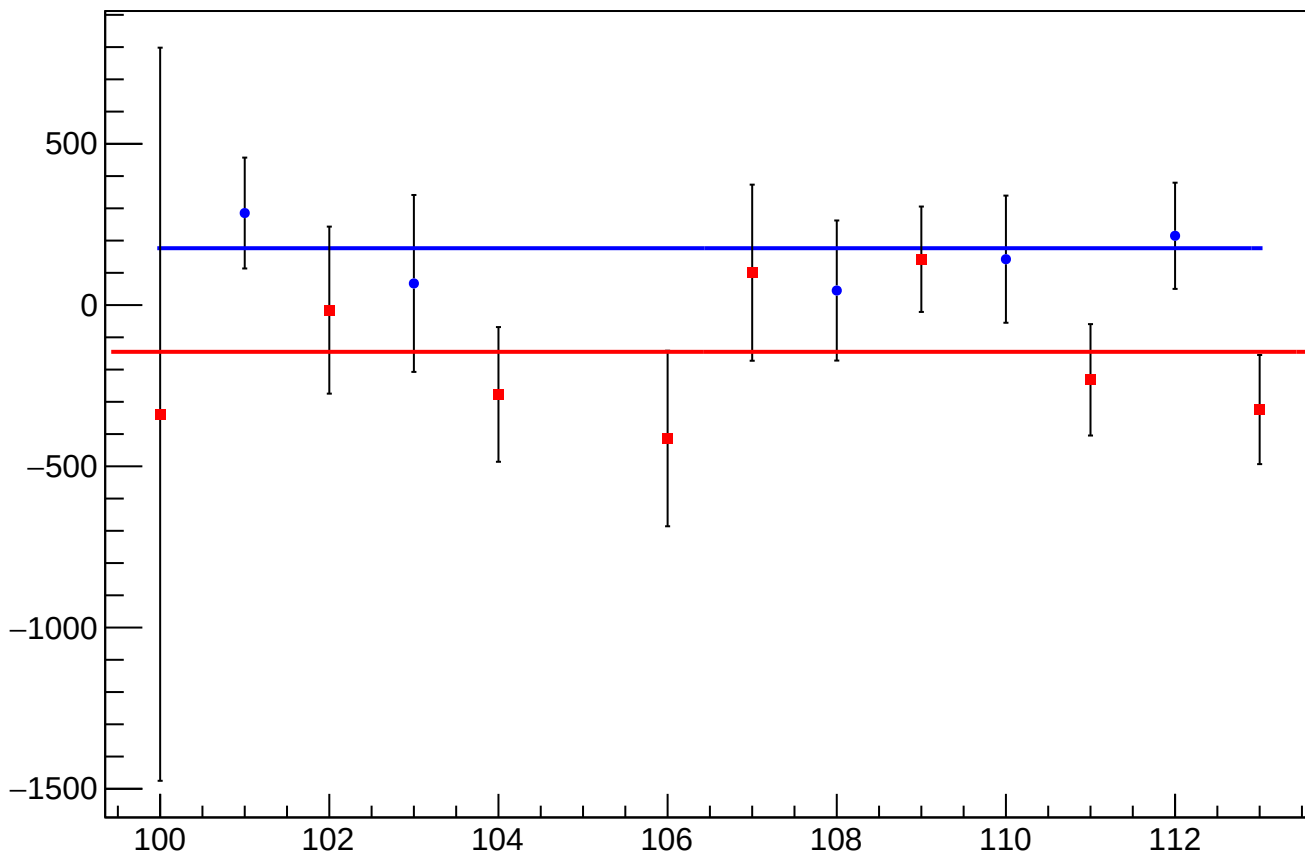
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1568.741+/-0.462  $\chi^2/\text{NDF}$ : 44558.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 176.370 $\pm$ 87.398  $\chi^2$ /NDF: 1.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -144.959 $\pm$ 76.382  $\chi^2$ /NDF: 6.9/7

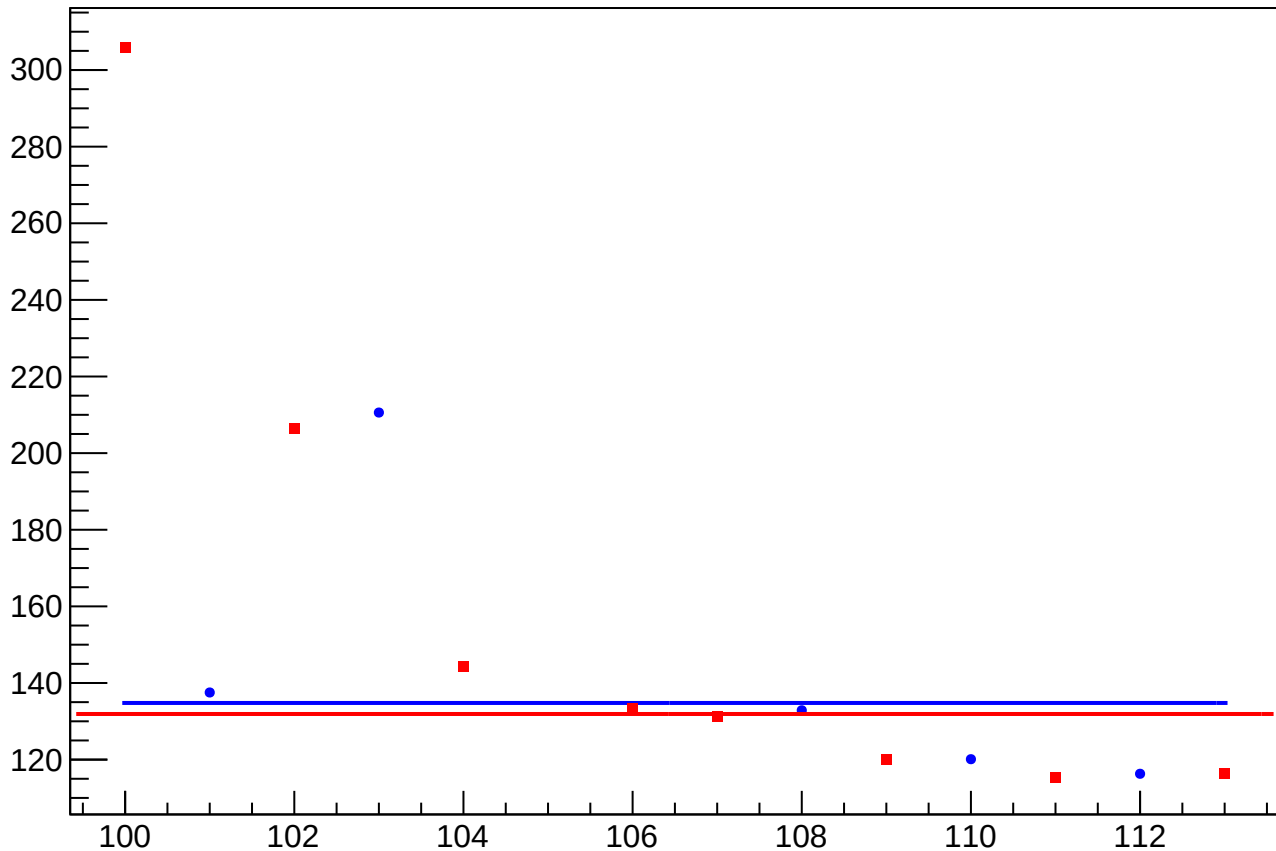
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -5.810 $\pm$ 57.513  $\chi^2$ /NDF: 15.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 134.790 $\pm$ 0.062  $\chi^2$ /NDF: 189672.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 131.910 $\pm$ 0.054  $\chi^2$ /NDF: 264304.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

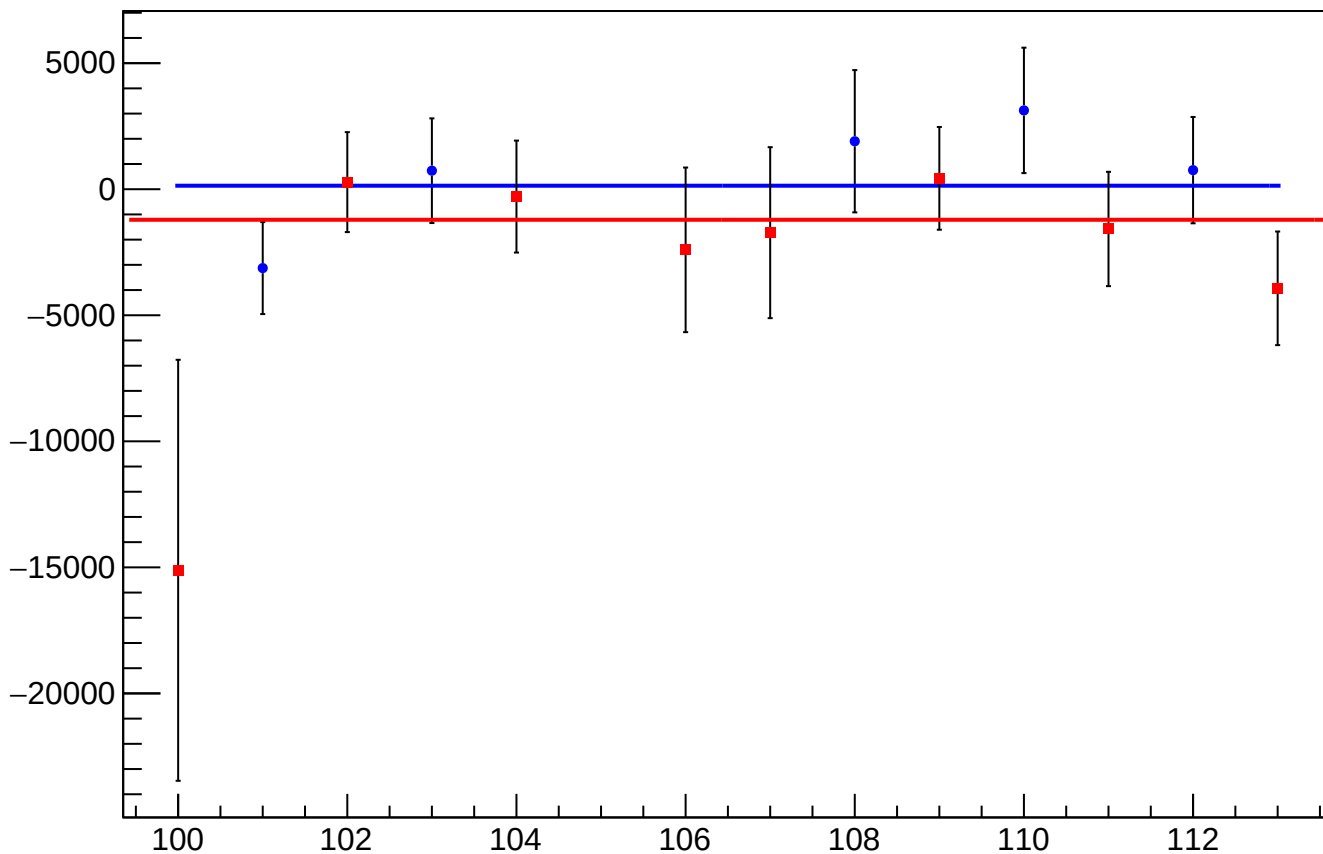
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 133.157 $\pm$ 0.041  $\chi^2$ /NDF: 455208.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_3726\_avg\_cor\_correction\_mean vs Slug



Right In: 139.182+/-978.546  $\chi^2/\text{NDF}$ : 5.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1212.132+/-882.364  $\chi^2/\text{NDF}$ : 5.8/7

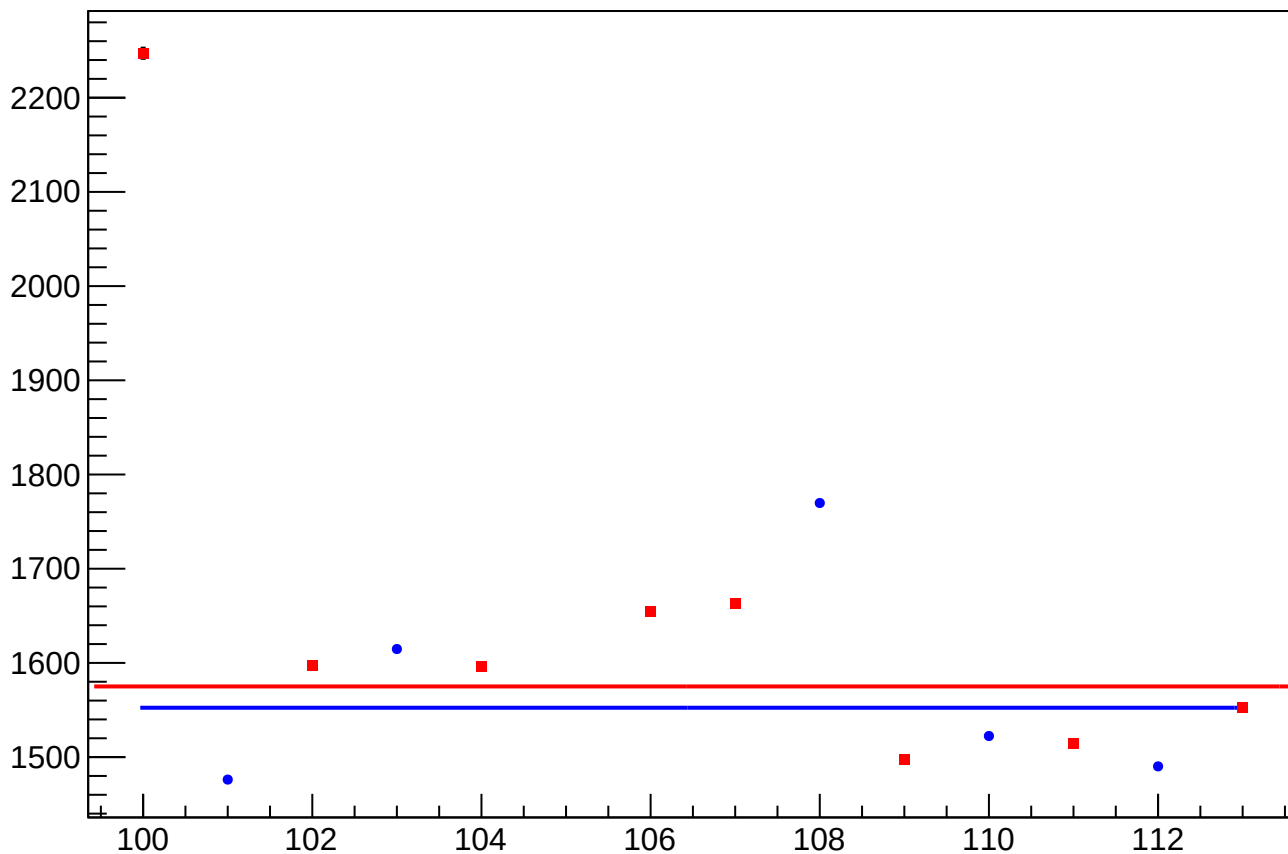
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -606.132+/-655.299  $\chi^2/\text{NDF}$ : 12.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_cor\_correction\_rms vs Slug



Right In: 1552.417 $\pm$ 0.692  $\chi^2$ /NDF: 19192.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1575.011 $\pm$ 0.624  $\chi^2$ /NDF: 20418.2/7

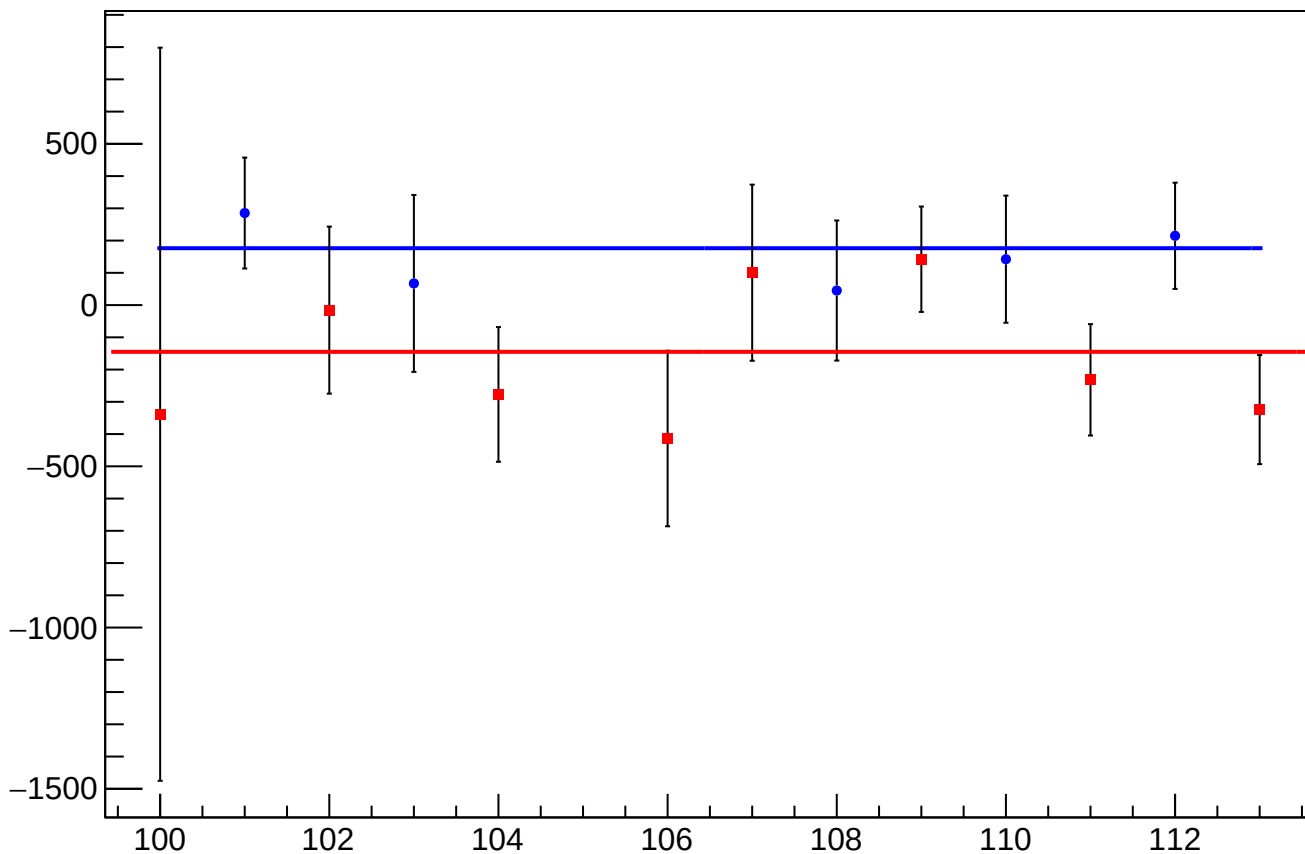
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1564.879 $\pm$ 0.463  $\chi^2$ /NDF: 40198.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 176.370 $\pm$ 87.398  $\chi^2$ /NDF: 1.0/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -144.959 $\pm$ -76.382  $\chi^2$ /NDF: 6.9/7

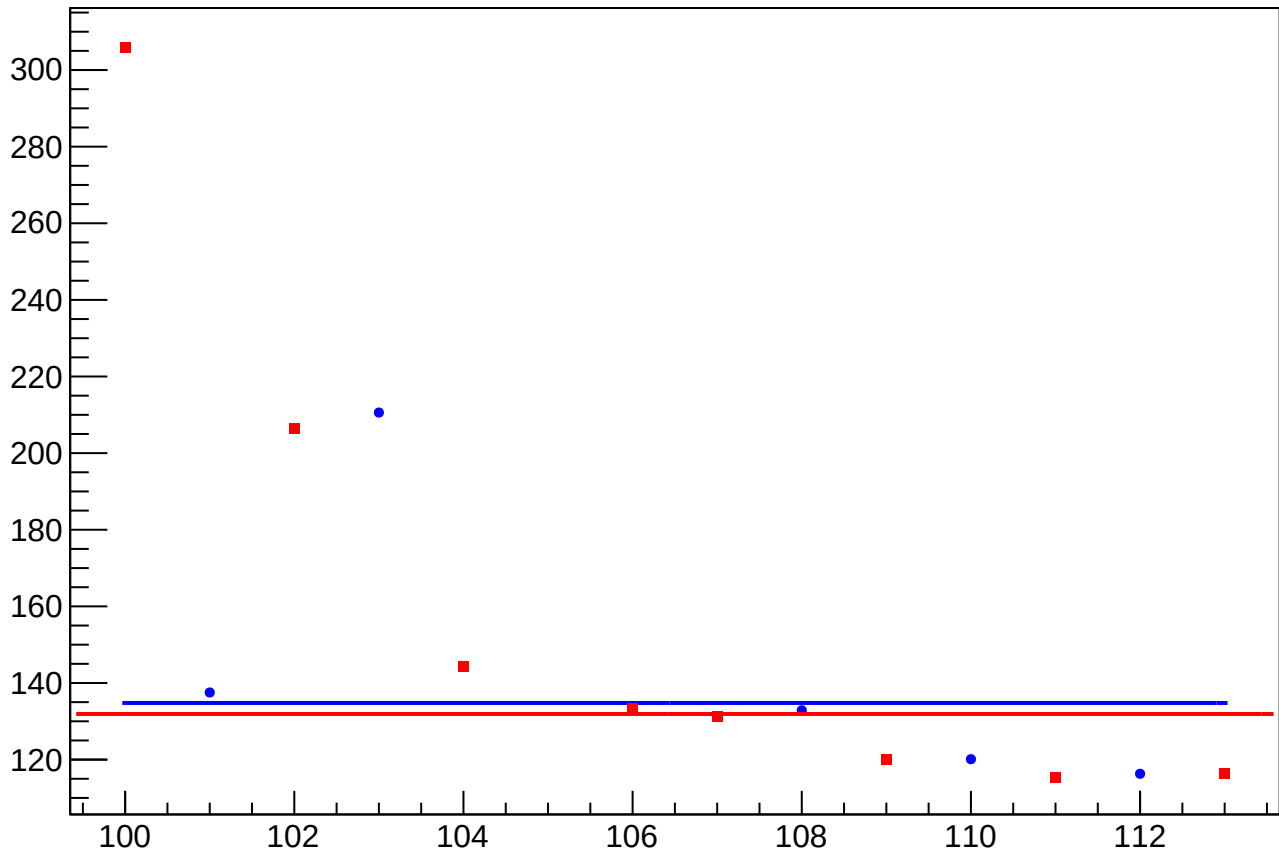
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -5.810 $\pm$ -57.513  $\chi^2$ /NDF: 15.6/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 134.790 $\pm$ 0.062  $\chi^2$ /NDF: 189672.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 131.910 $\pm$ 0.054  $\chi^2$ /NDF: 264304.5/7

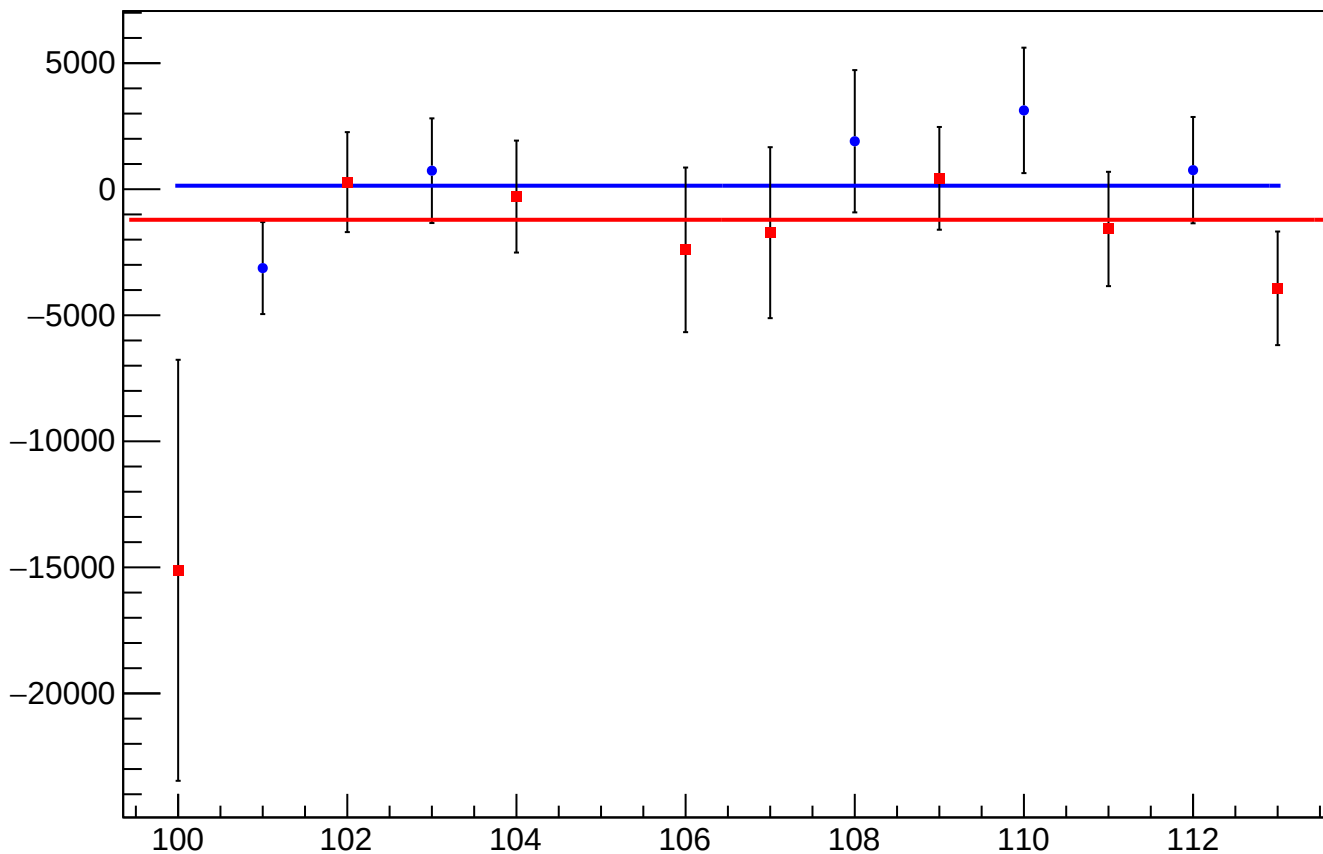
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 133.157 $\pm$ 0.041  $\chi^2$ /NDF: 455208.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 139.182+/-978.546  $\chi^2/\text{NDF}$ : 5.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1212.132+/-882.364  $\chi^2/\text{NDF}$ : 5.8/7

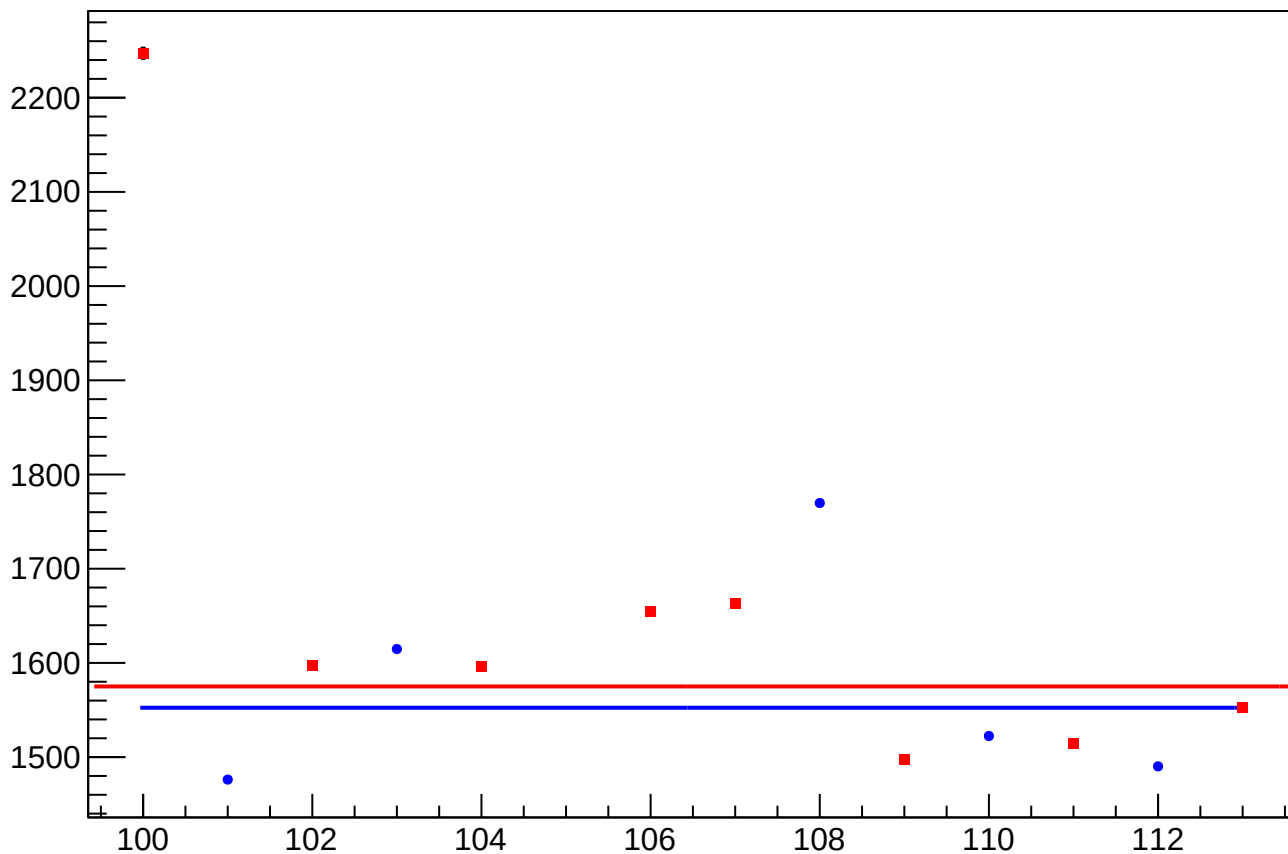
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -606.132+/-655.299  $\chi^2/\text{NDF}$ : 12.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1552.417+/-0.692  $\chi^2/\text{NDF}$ : 19192.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1575.011+/-0.624  $\chi^2/\text{NDF}$ : 20418.2/7

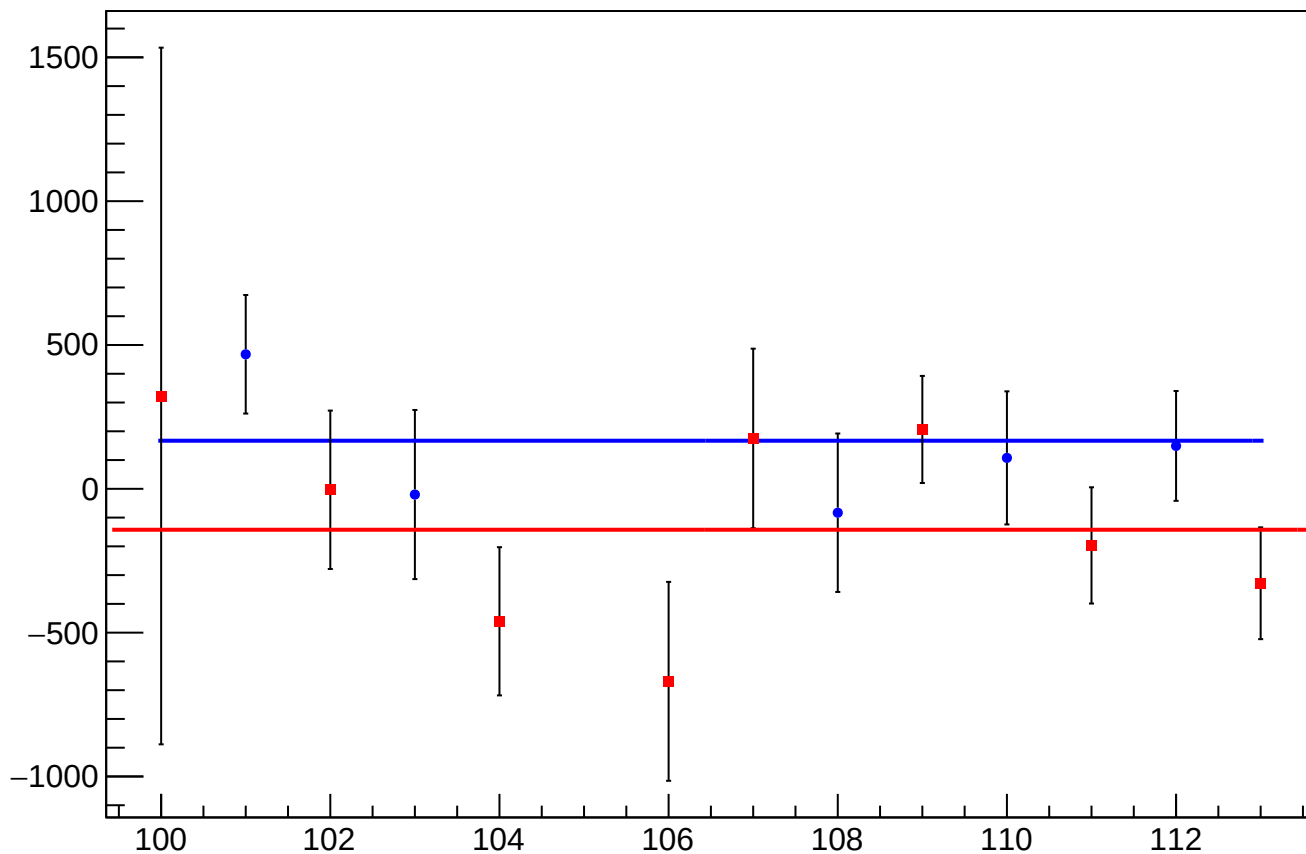
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1564.879+/-0.463  $\chi^2/\text{NDF}$ : 40198.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 167.201 $\pm$ 102.916  $\chi^2$ /NDF: 3.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -142.260 $\pm$ 88.597  $\chi^2$ /NDF: 9.8/7

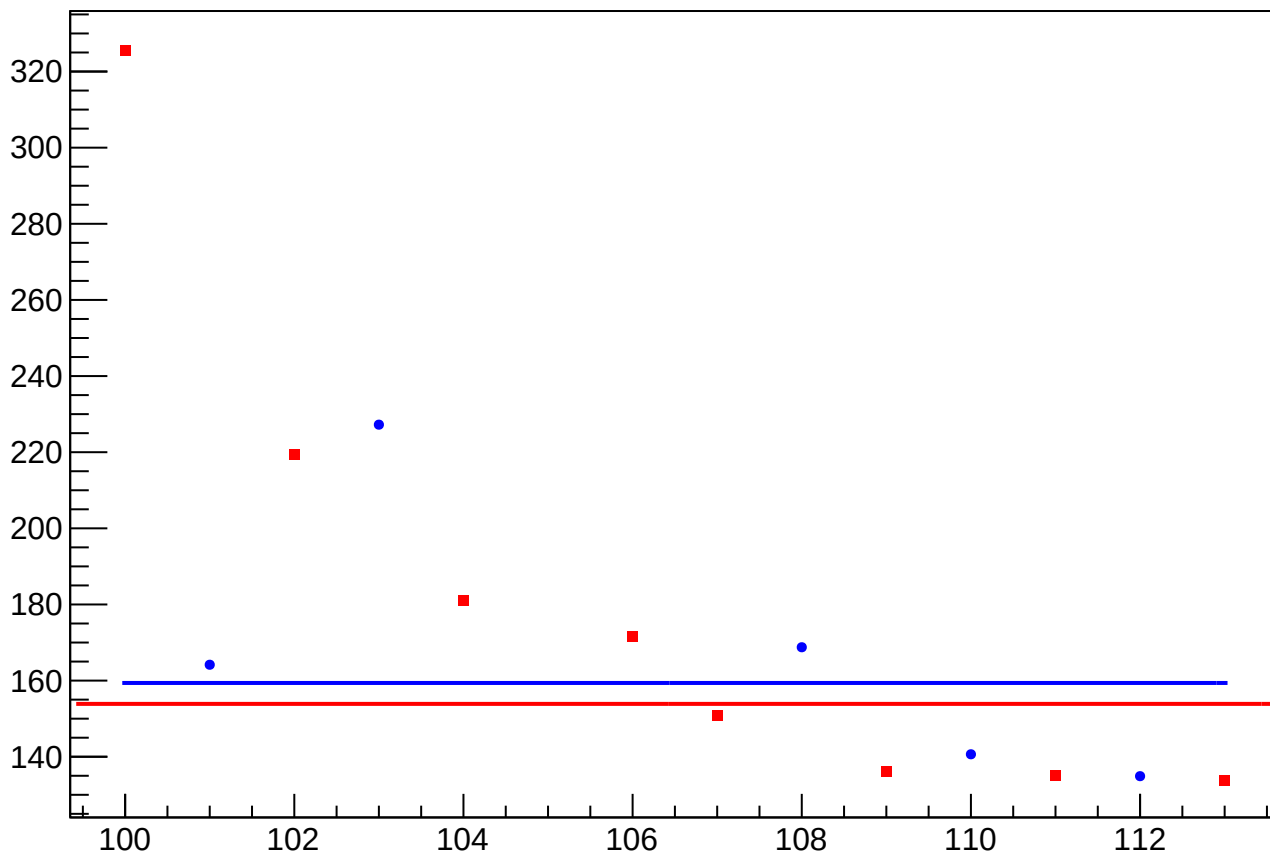
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -10.539 $\pm$ 67.144  $\chi^2$ /NDF: 18.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 159.381 $\pm$ 0.073  $\chi^2$ /NDF: 155962.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 153.884 $\pm$ 0.063  $\chi^2$ /NDF: 238108.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

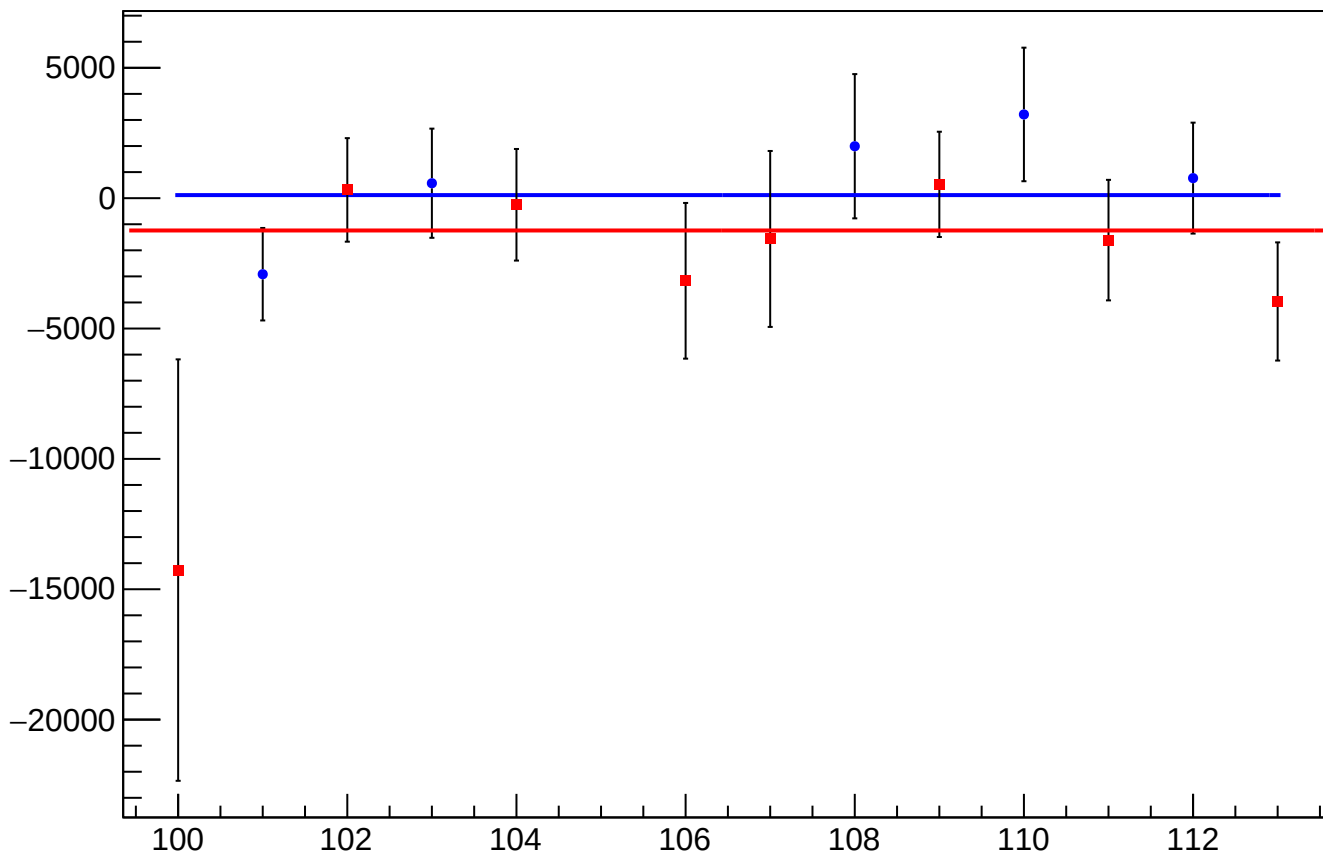
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.224 $\pm$ 0.047  $\chi^2$ /NDF: 397349.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_3726\_avg\_dit\_correction\_mean vs Slug



Right In: 118.066+/-975.945  $\chi^2/\text{NDF}$ : 5.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1238.981+/-872.295  $\chi^2/\text{NDF}$ : 6.1/7

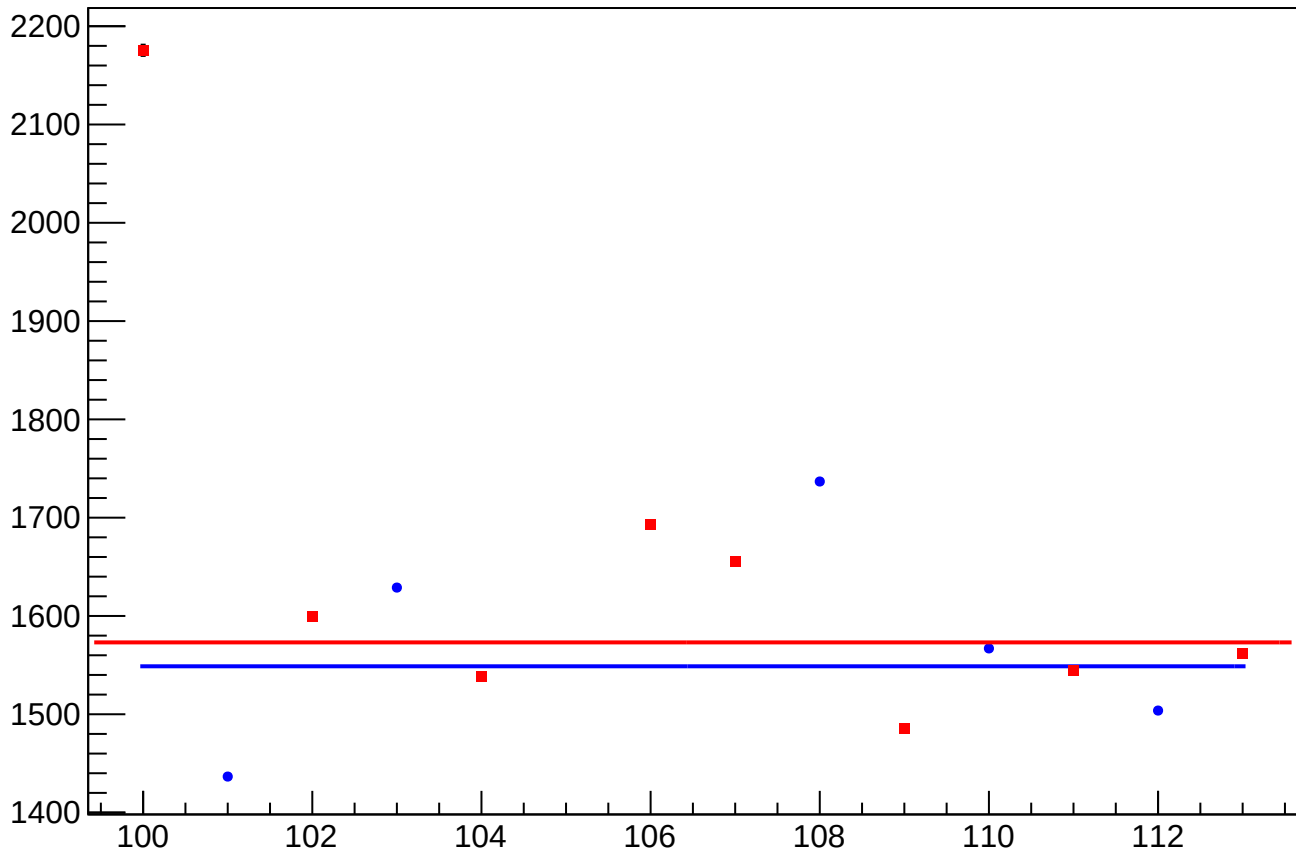
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -636.323+/-650.374  $\chi^2/\text{NDF}$ : 12.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3726\_avg\_dit\_correction\_rms vs Slug



Right In: 1548.797+/-0.690  $\chi^2/\text{NDF}$ : 21156.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1573.110+/-0.617  $\chi^2/\text{NDF}$ : 20527.5/7

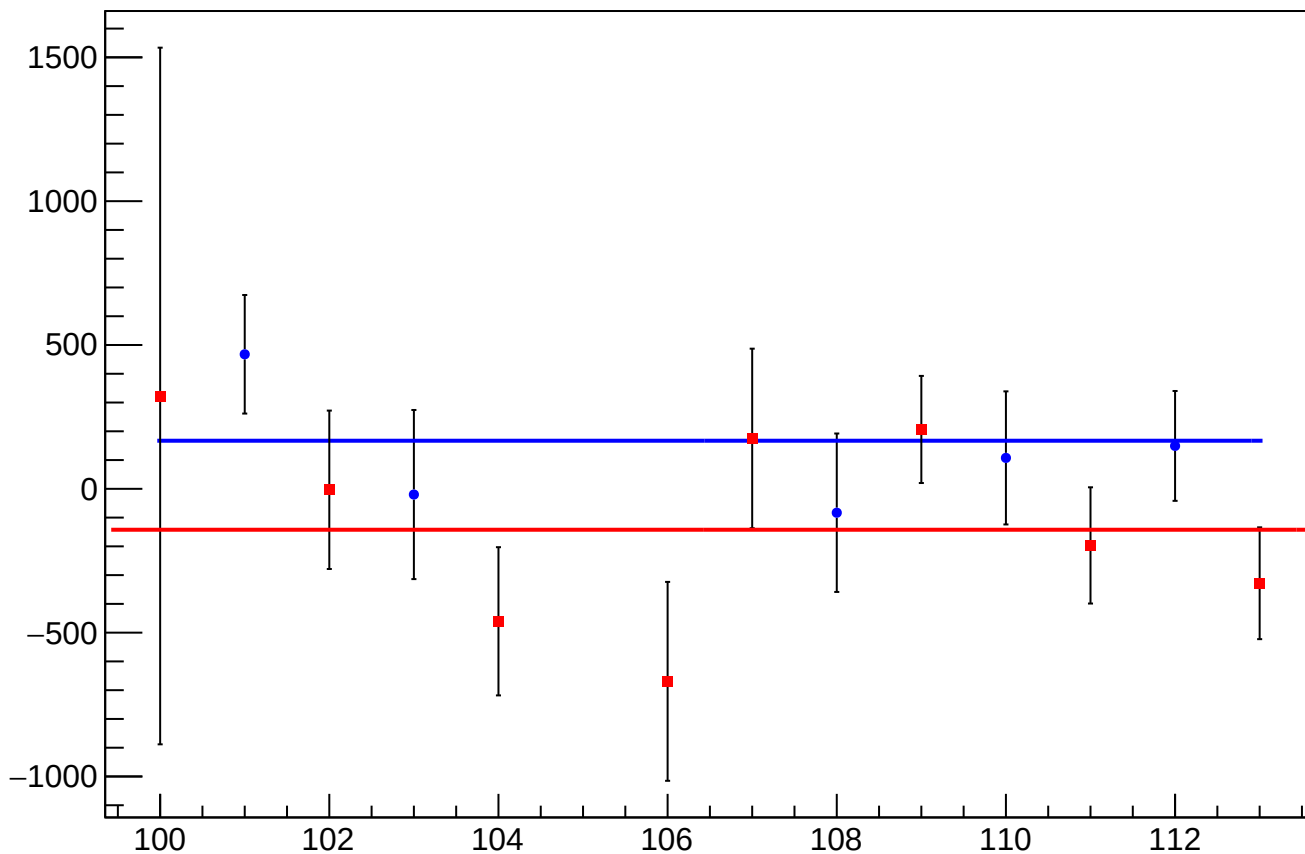
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1562.313+/-0.460  $\chi^2/\text{NDF}$ : 42374.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 167.195 $\pm$ 102.916  $\chi^2$ /NDF: 3.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -142.255 $\pm$ 88.597  $\chi^2$ /NDF: 9.8/7

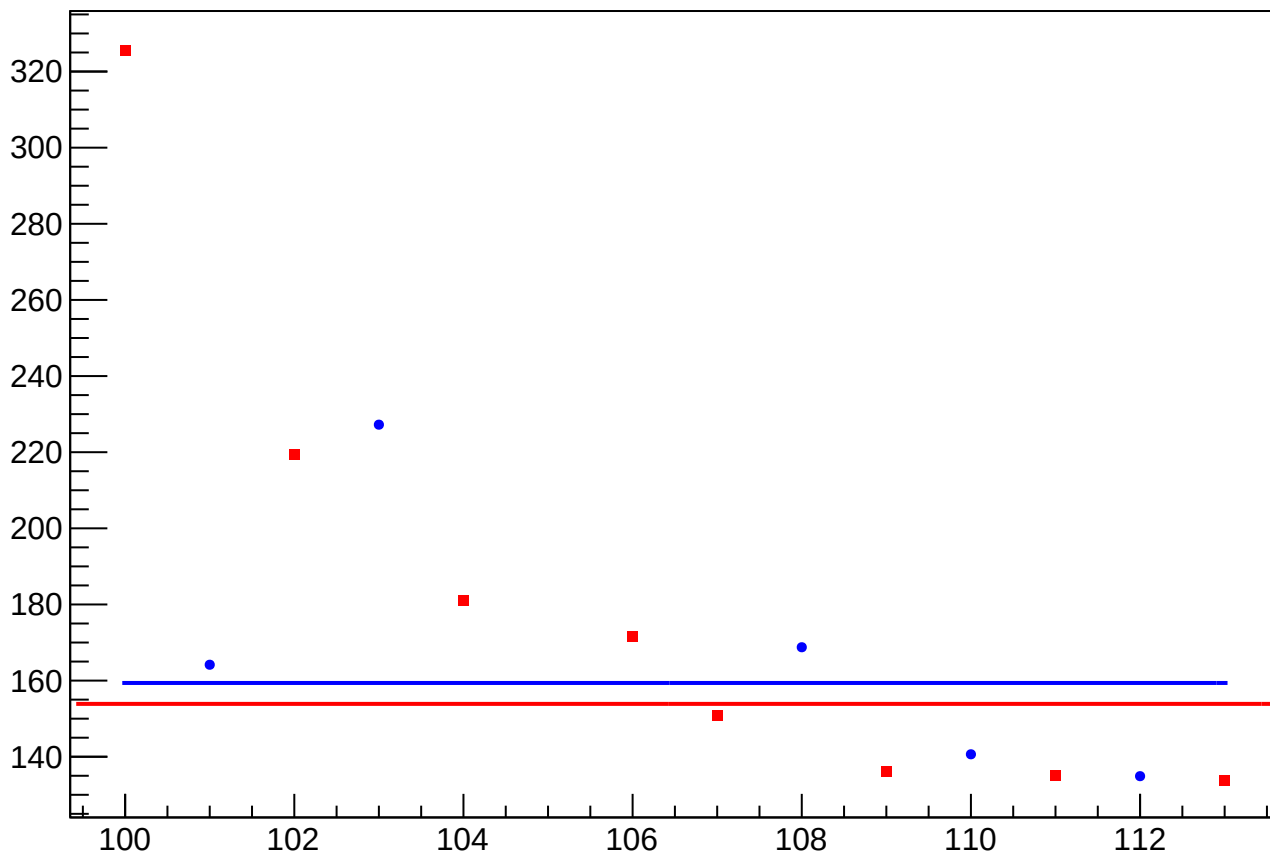
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -10.539 $\pm$ 67.144  $\chi^2$ /NDF: 18.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 159.381 $\pm$ 0.073  $\chi^2$ /NDF: 155968.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 153.884 $\pm$ 0.063  $\chi^2$ /NDF: 238116.6/7

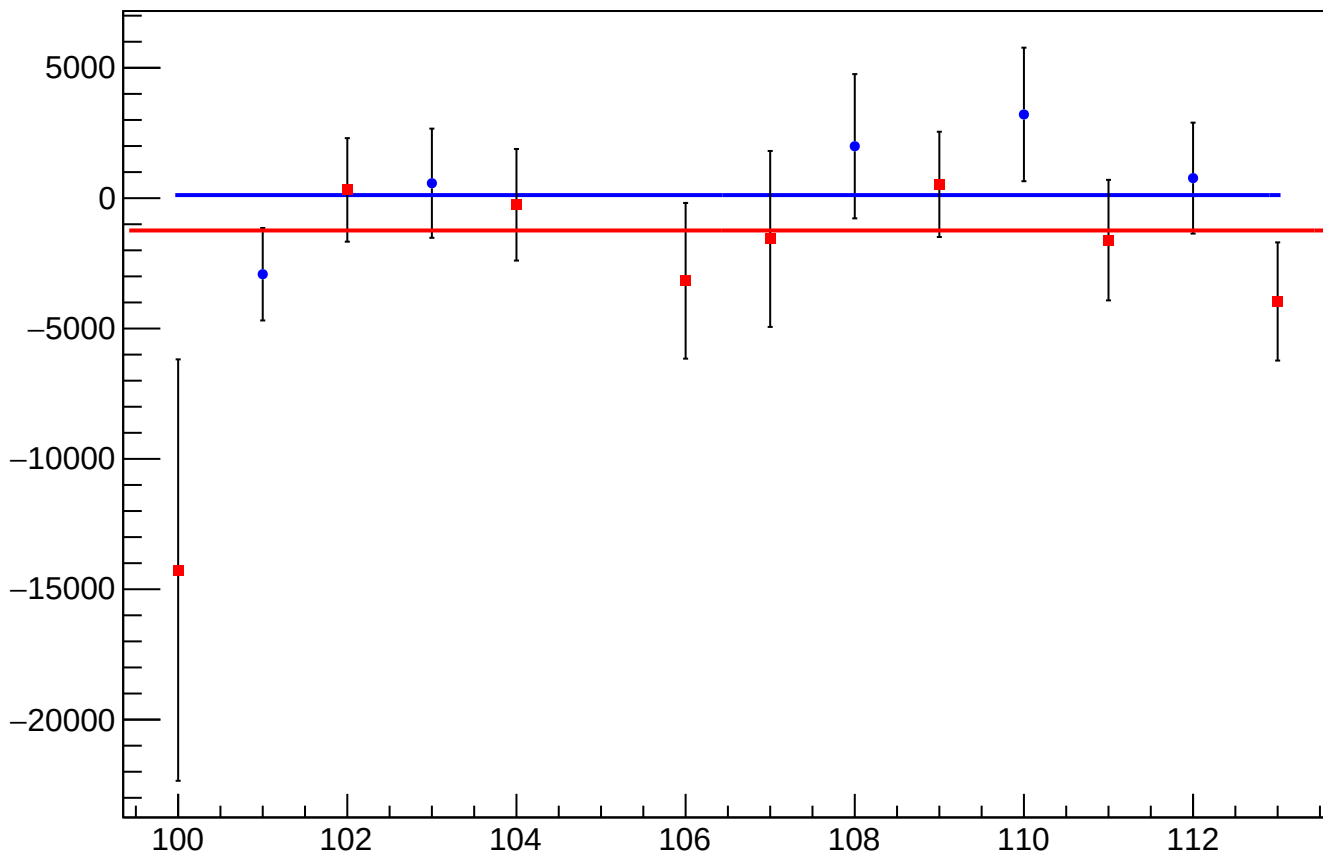
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.223 $\pm$ 0.047  $\chi^2$ /NDF: 397361.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 118.067 $\pm$ 975.942  $\chi^2$ /NDF: 5.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1238.978 $\pm$ 872.292  $\chi^2$ /NDF: 6.1/7

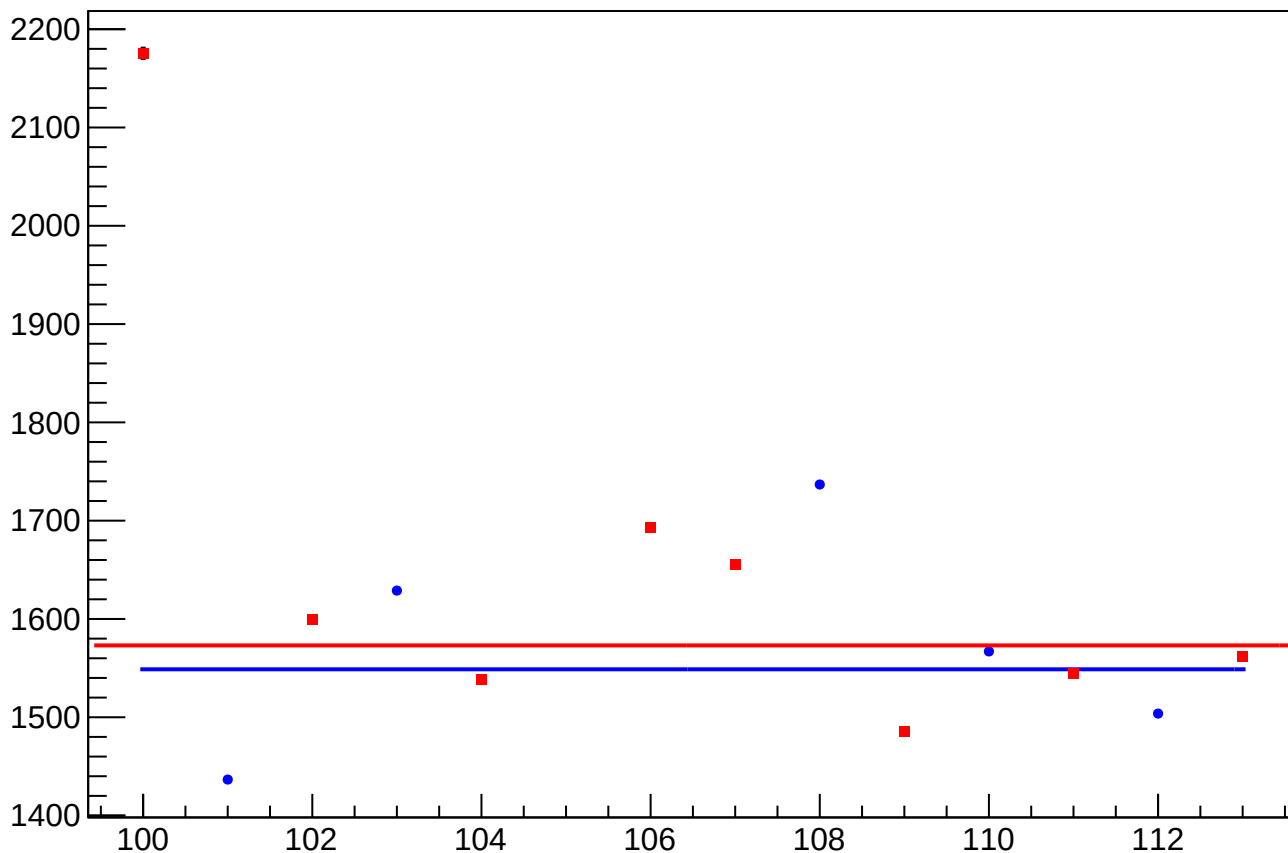
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -636.321 $\pm$ 650.372  $\chi^2$ /NDF: 12.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1548.792 $\pm$ 0.690  $\chi^2$ /NDF: 21156.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1573.105 $\pm$ 0.617  $\chi^2$ /NDF: 20528.0/7

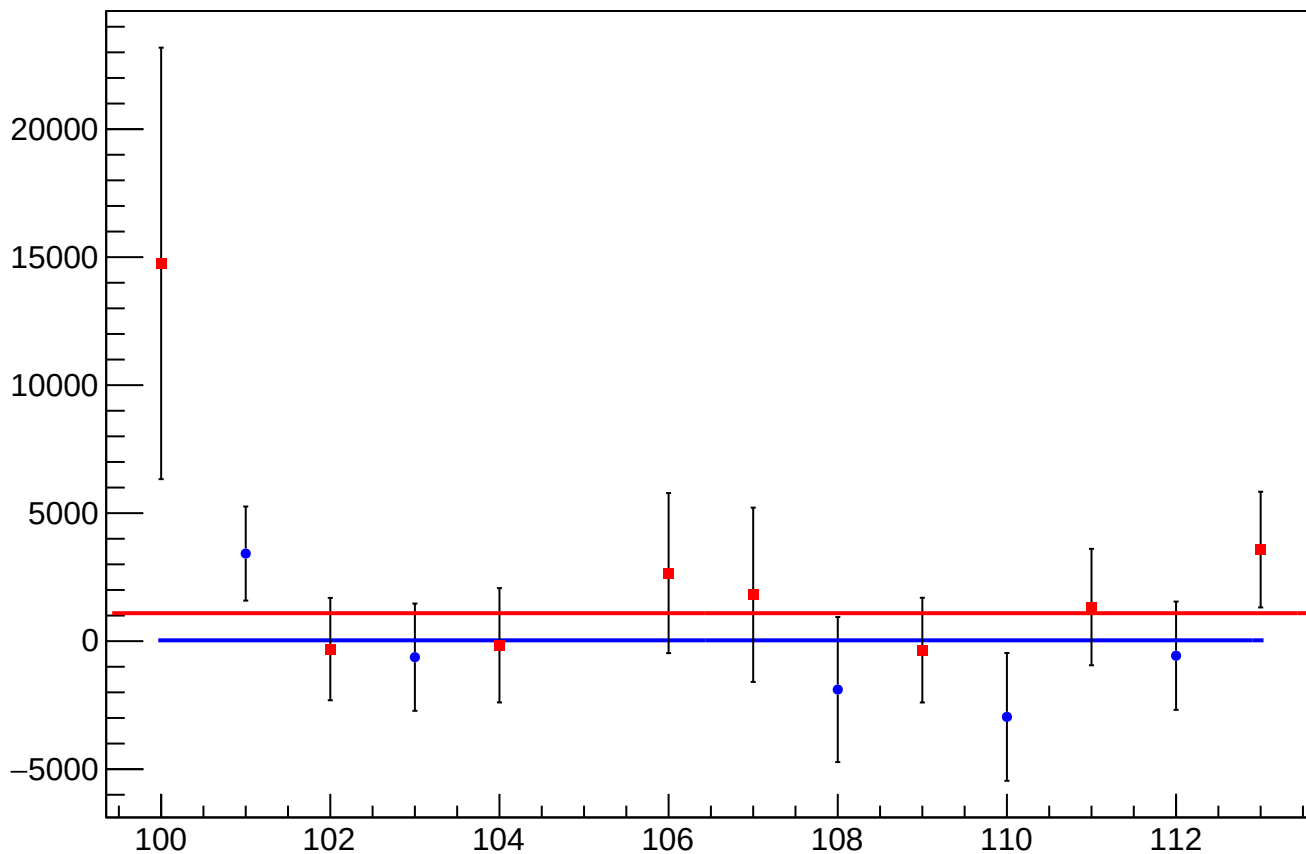
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1562.307 $\pm$ 0.460  $\chi^2$ /NDF: 42374.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_3726\_avg\_mean vs Slug



Right In: 32.708+/-984.049  $\chi^2/\text{NDF}$ : 5.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1092.865+/-883.319  $\chi^2/\text{NDF}$ : 5.4/7

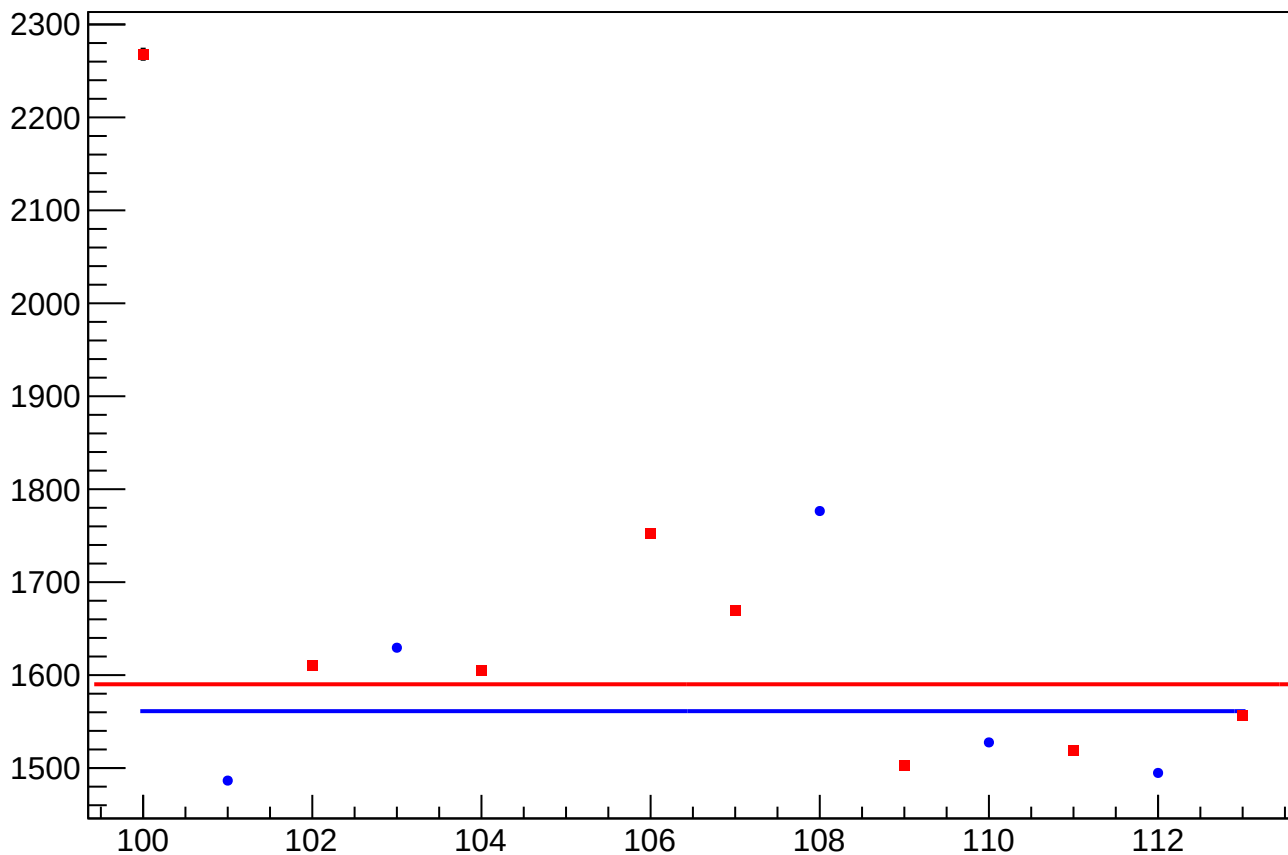
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 619.808+/-657.338  $\chi^2/\text{NDF}$ : 11.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3726\_avg\_rms vs Slug



Right In: 1561.217 $\pm$ 0.696  $\chi^2$ /NDF: 19319.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1590.132 $\pm$ 0.625  $\chi^2$ /NDF: 25698.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

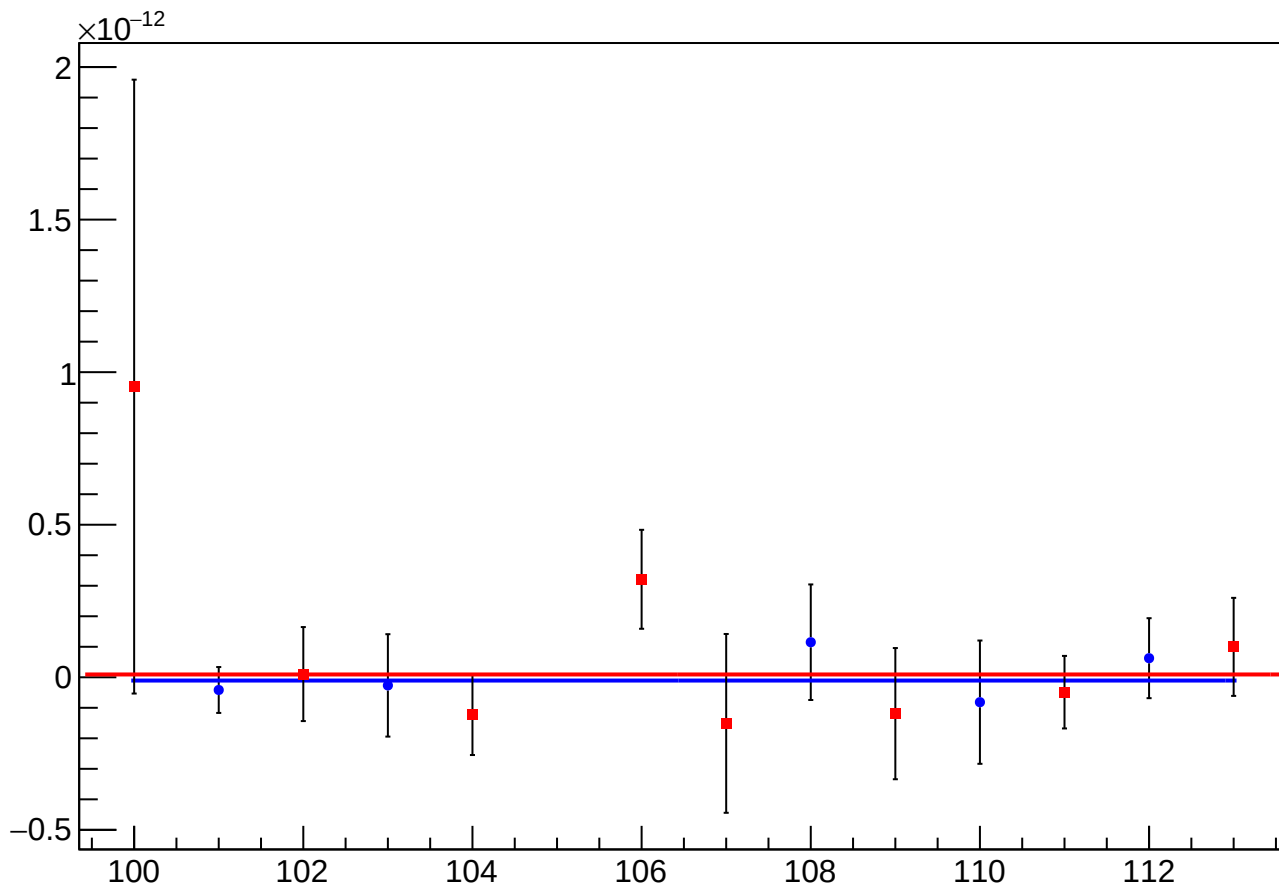
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1577.229 $\pm$ 0.465  $\chi^2$ /NDF: 45973.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_3726\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 1.1/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 6.8/7

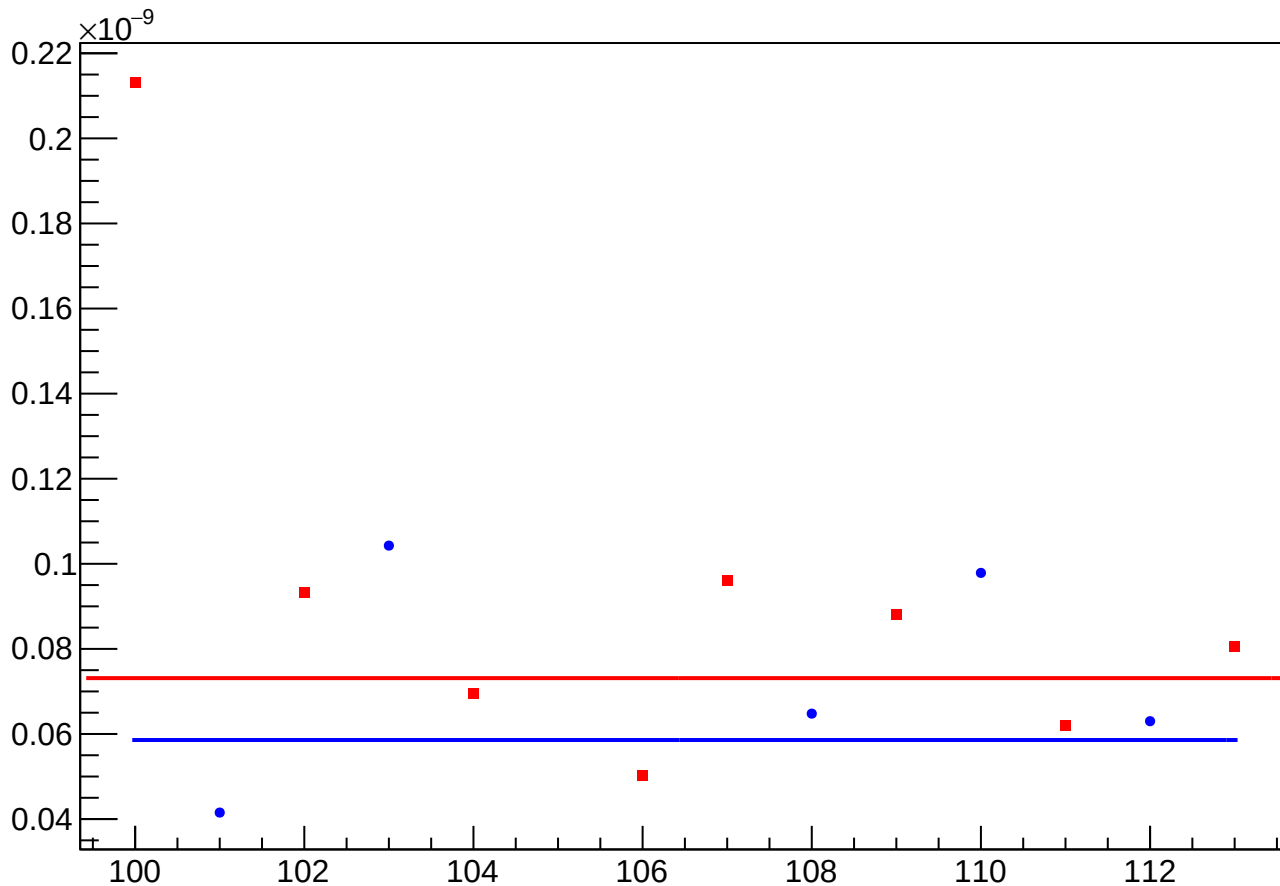
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 7.9/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 331177.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 157421.8/7

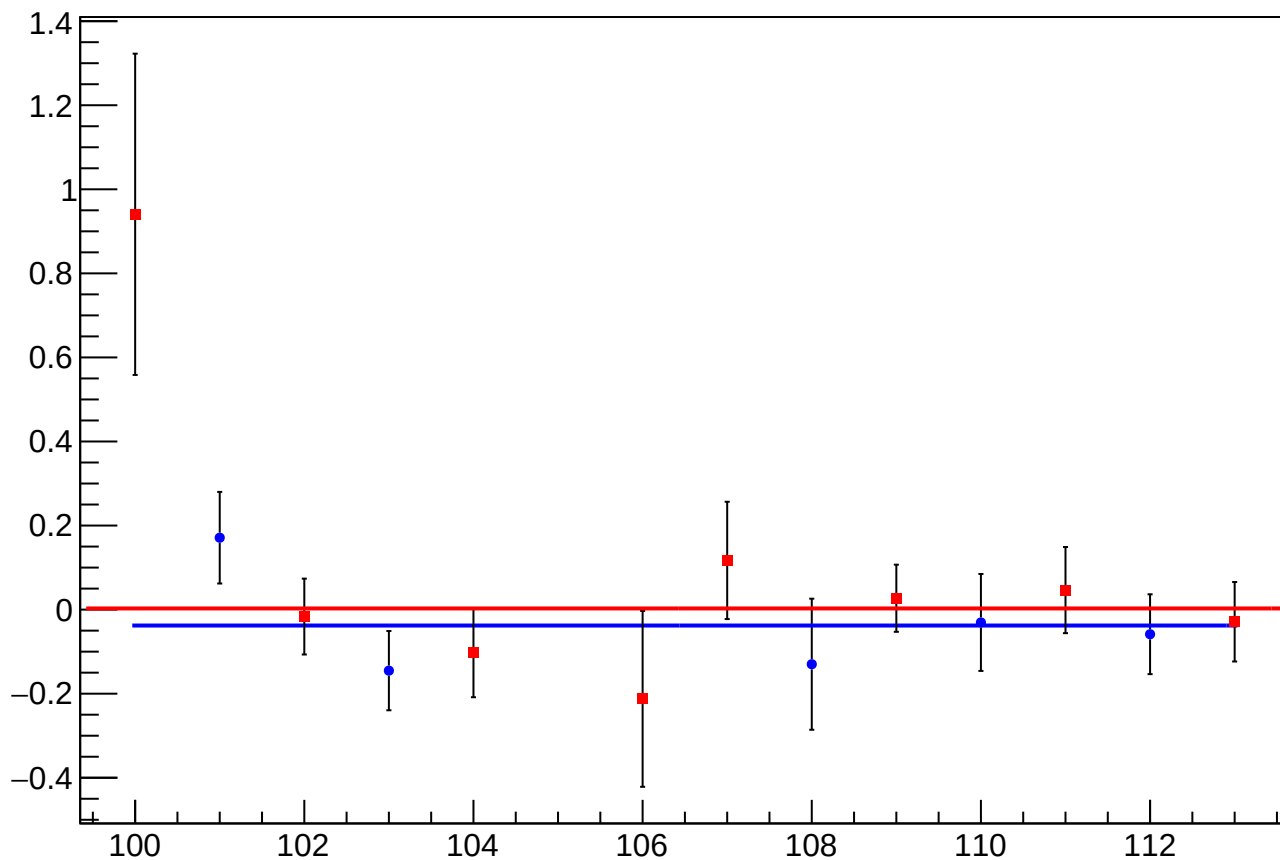
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 552241.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.038 $\pm$ 0.049  $\chi^2$ /NDF: 5.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.039  $\chi^2$ /NDF: 9.2/7

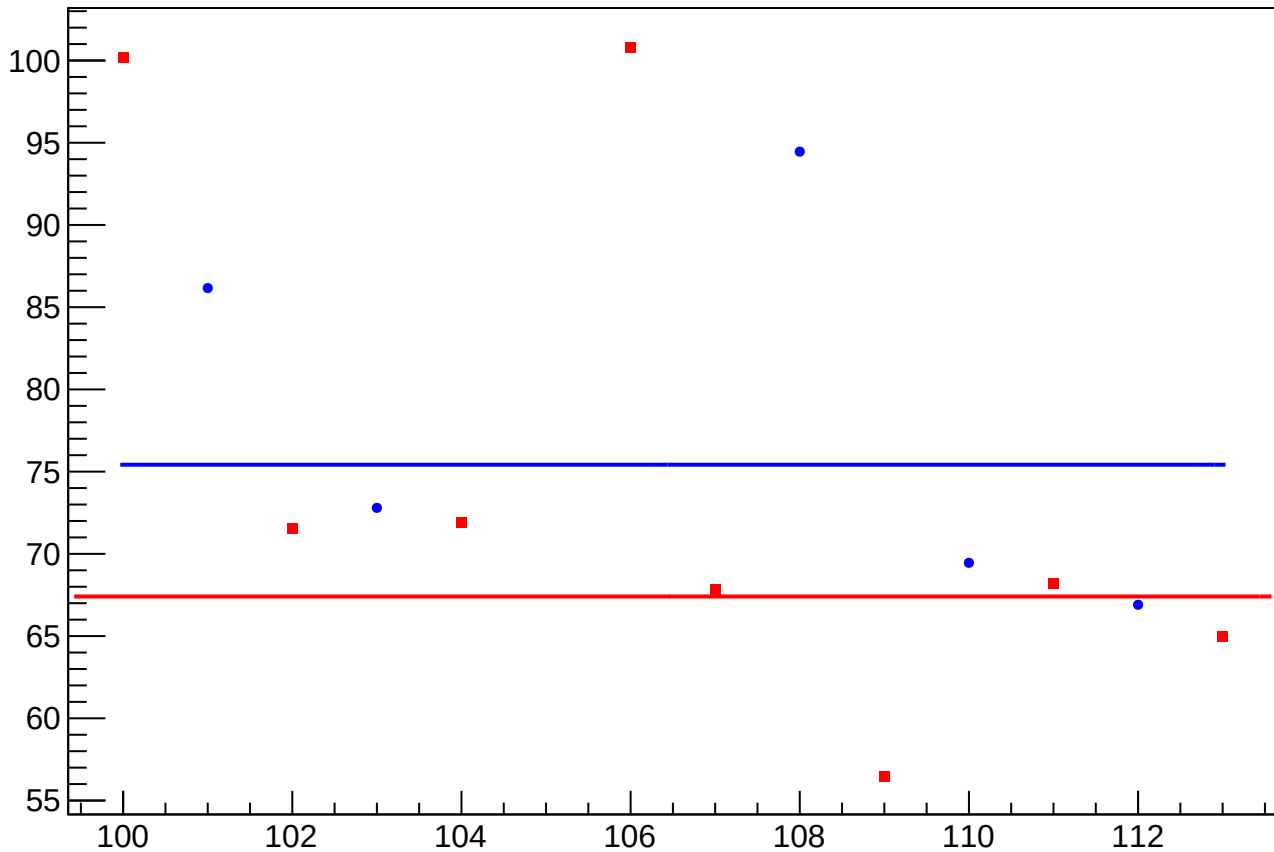
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.030  $\chi^2$ /NDF: 15.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 75.422 $\pm$ 0.034  $\chi^2$ /NDF: 72229.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.407 $\pm$ 0.028  $\chi^2$ /NDF: 112686.0/7

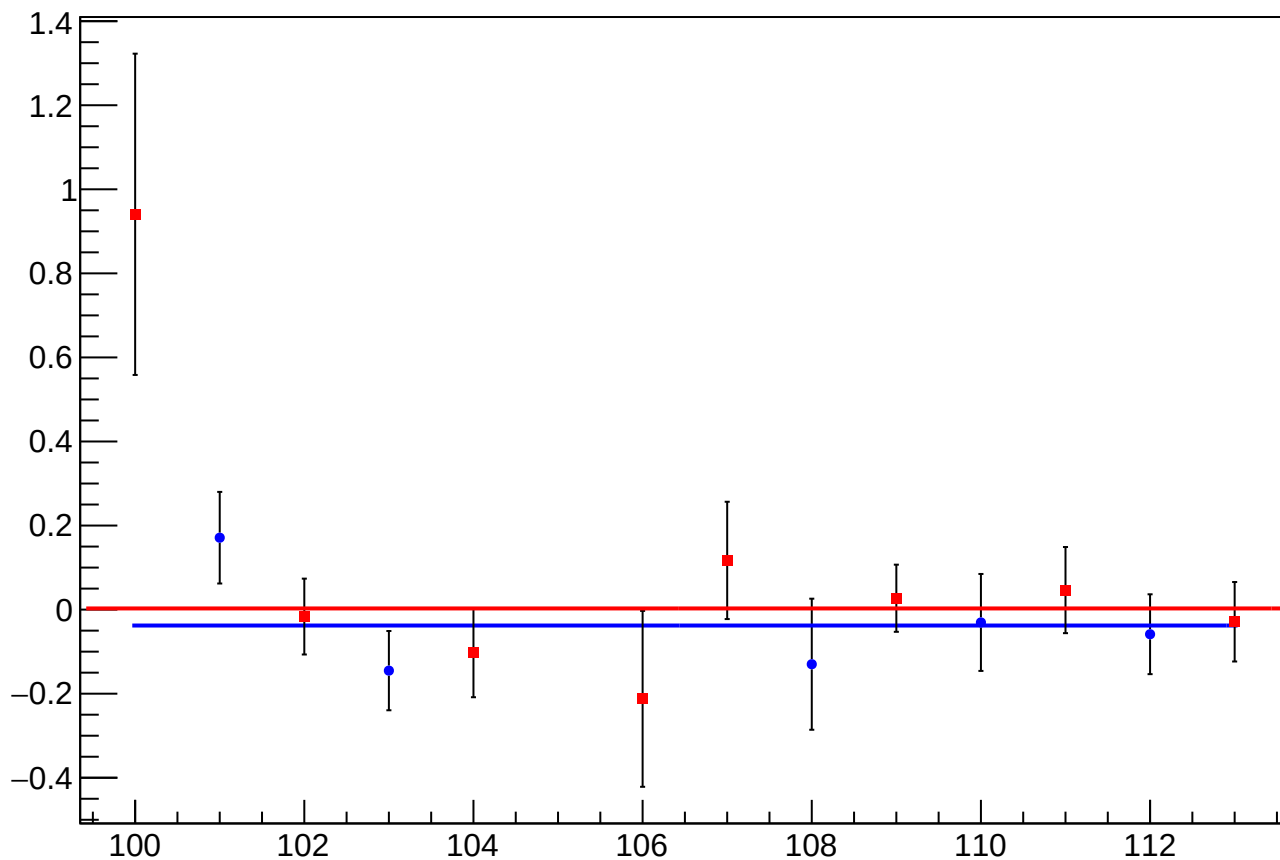
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 70.550 $\pm$ 0.022  $\chi^2$ /NDF: 218019.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.038 $\pm$ 0.049  $\chi^2$ /NDF: 5.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.039  $\chi^2$ /NDF: 9.2/7

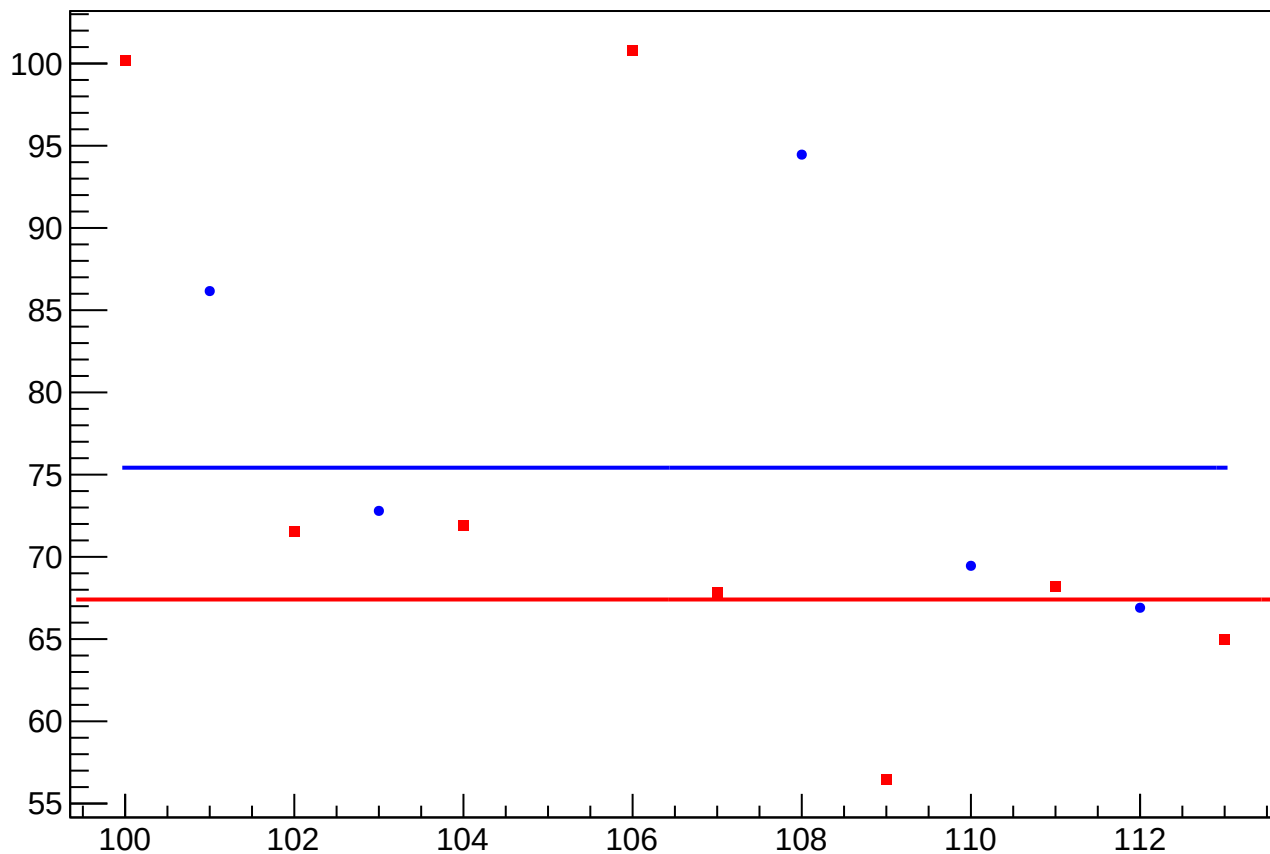
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.030  $\chi^2$ /NDF: 15.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 75.422 $\pm$ 0.034  $\chi^2$ /NDF: 72229.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.407 $\pm$ 0.028  $\chi^2$ /NDF: 112686.0/7

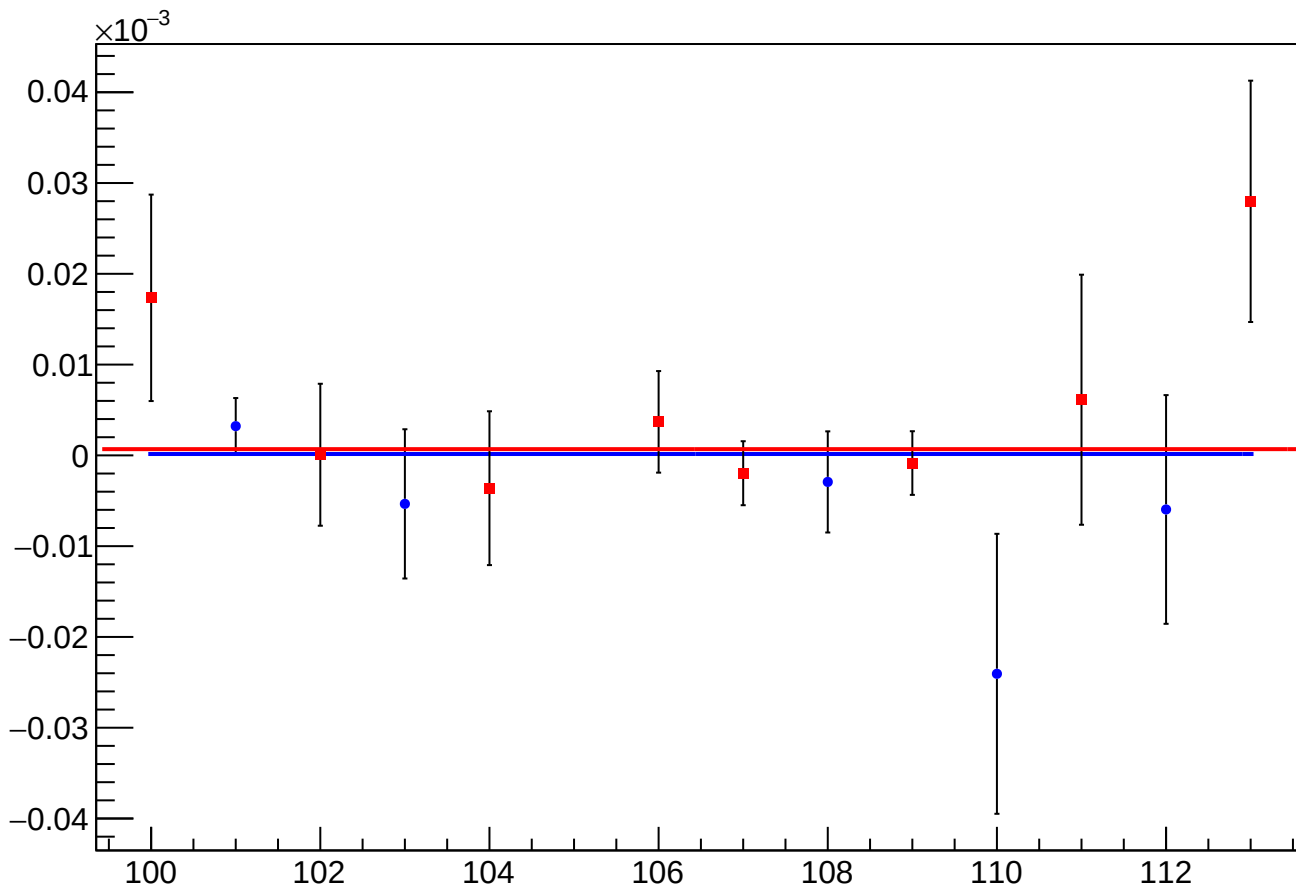
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 70.550 $\pm$ 0.022  $\chi^2$ /NDF: 218019.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.8/7

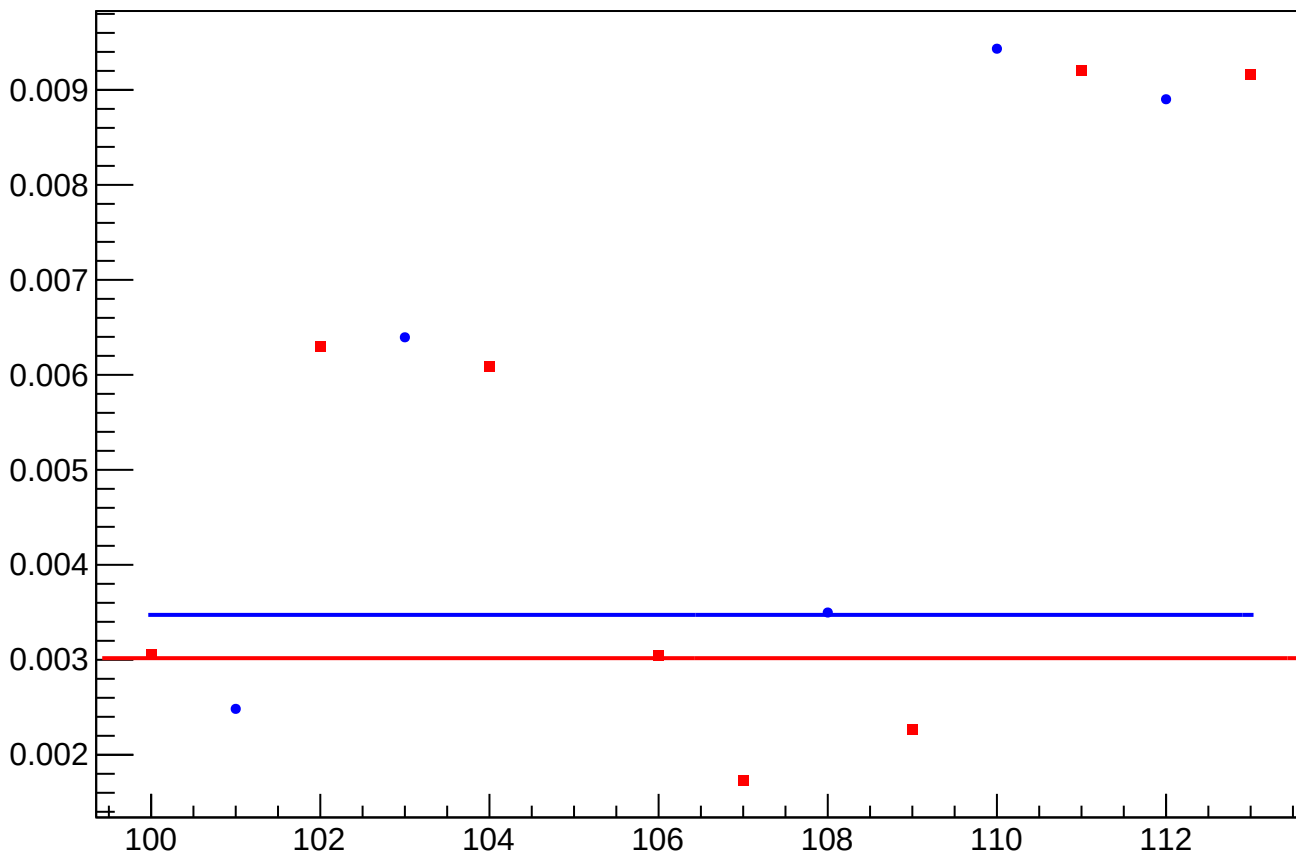
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1127562.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1803580.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

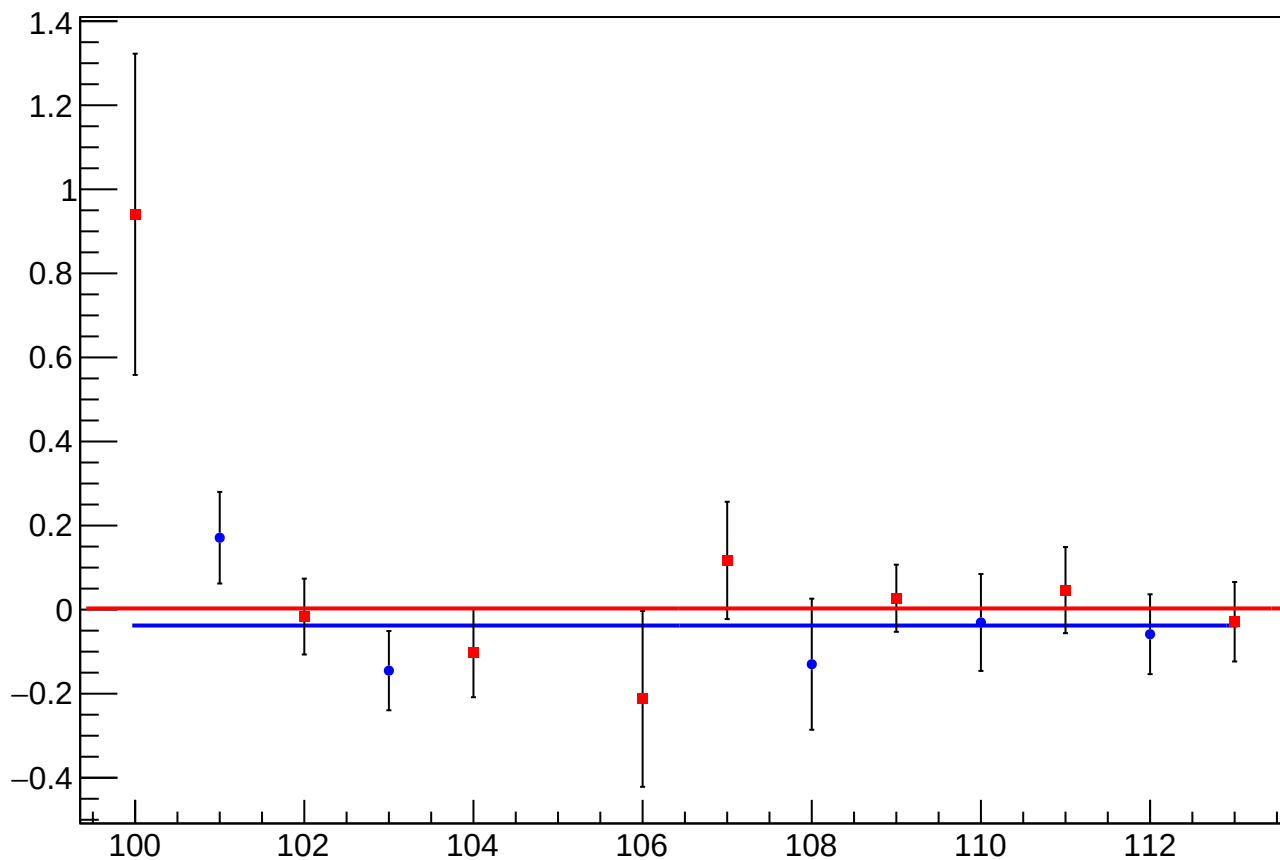
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2971504.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_3726\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.038 \pm 0.049$   $\chi^2/\text{NDF}$ : 5.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.003 \pm 0.039$   $\chi^2/\text{NDF}$ : 9.2/7

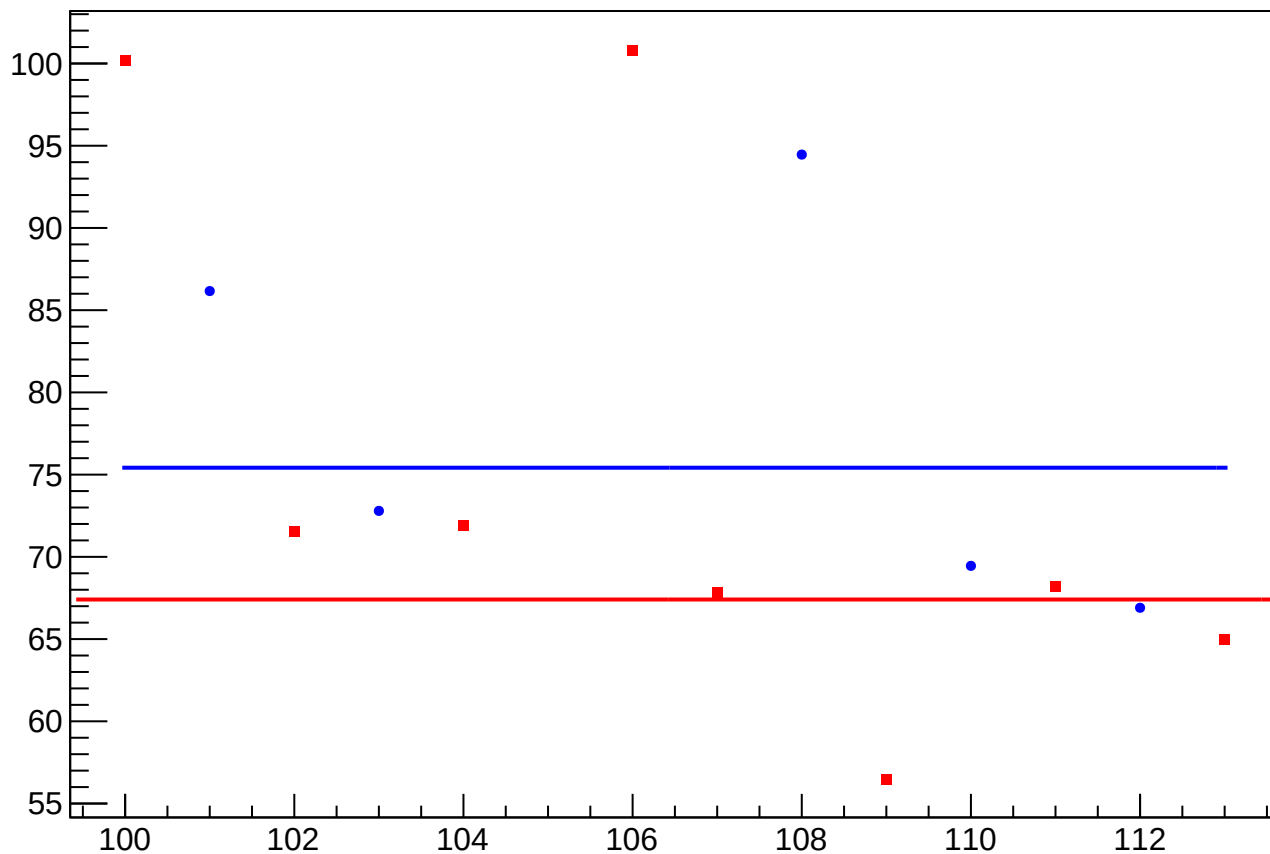
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.013 \pm 0.030$   $\chi^2/\text{NDF}$ : 15.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 75.421 $\pm$ 0.034  $\chi^2$ /NDF: 72249.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.406 $\pm$ 0.028  $\chi^2$ /NDF: 112689.3/7

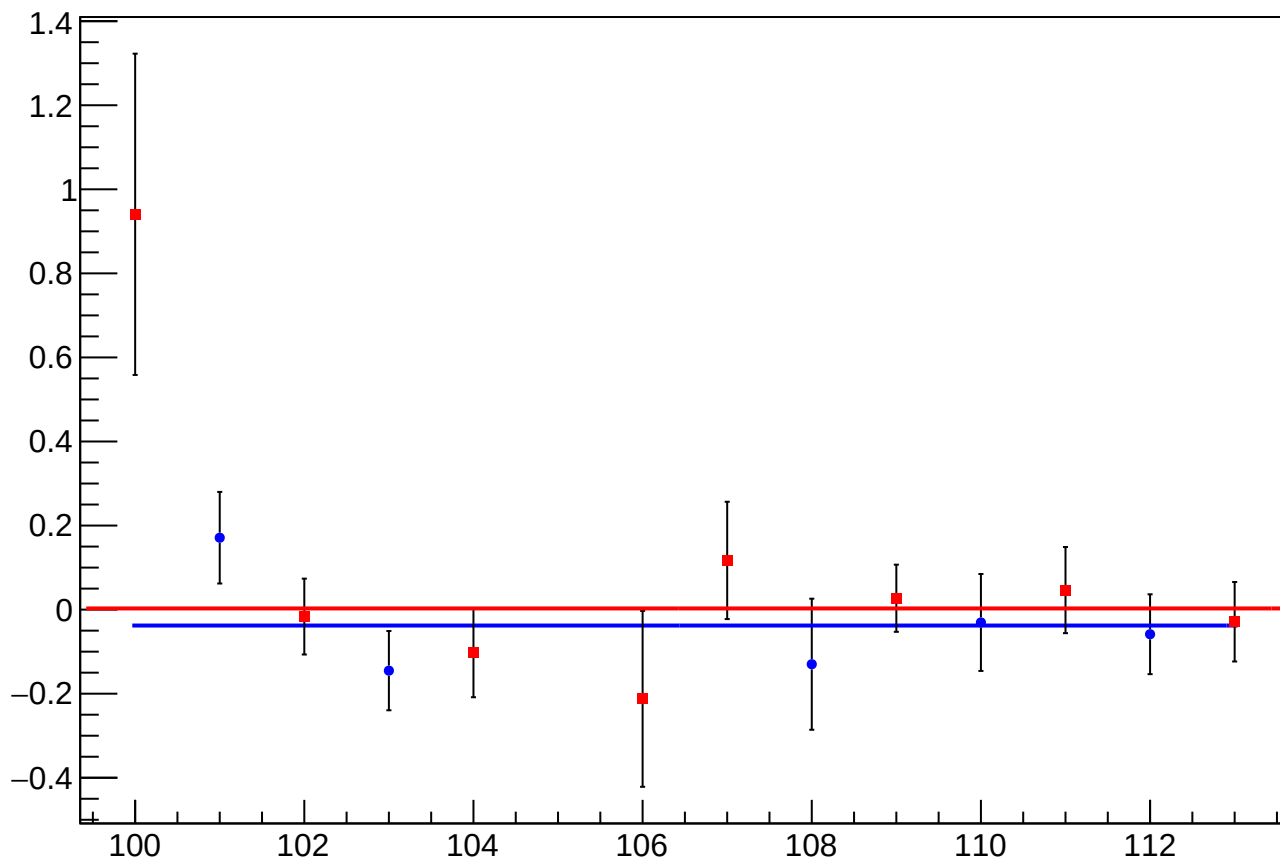
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 70.549 $\pm$ 0.022  $\chi^2$ /NDF: 218037.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.038 $\pm$ 0.049  $\chi^2$ /NDF: 5.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.039  $\chi^2$ /NDF: 9.2/7

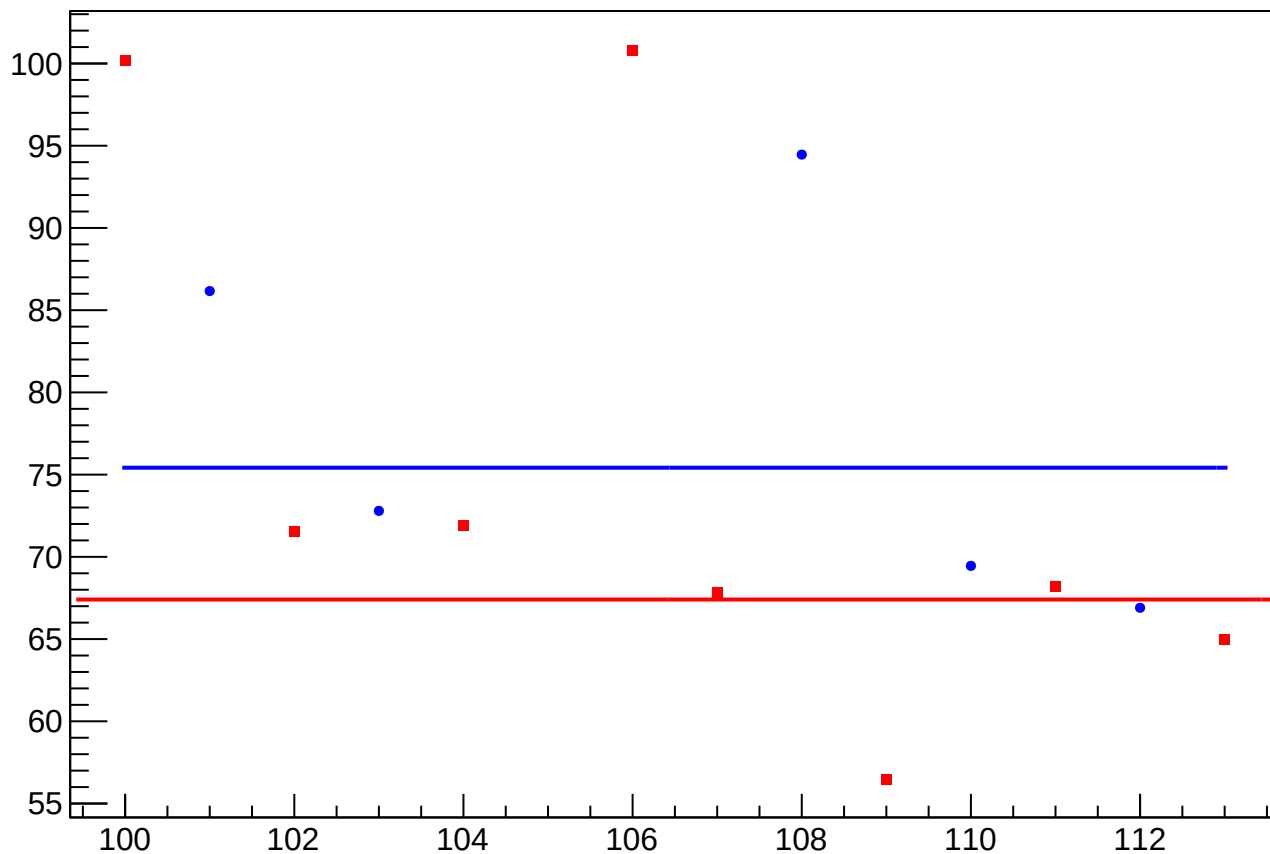
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.030  $\chi^2$ /NDF: 15.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 75.421+/-0.034  $\chi^2/\text{NDF}$ : 72249.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 67.406+/-0.028  $\chi^2/\text{NDF}$ : 112689.3/7

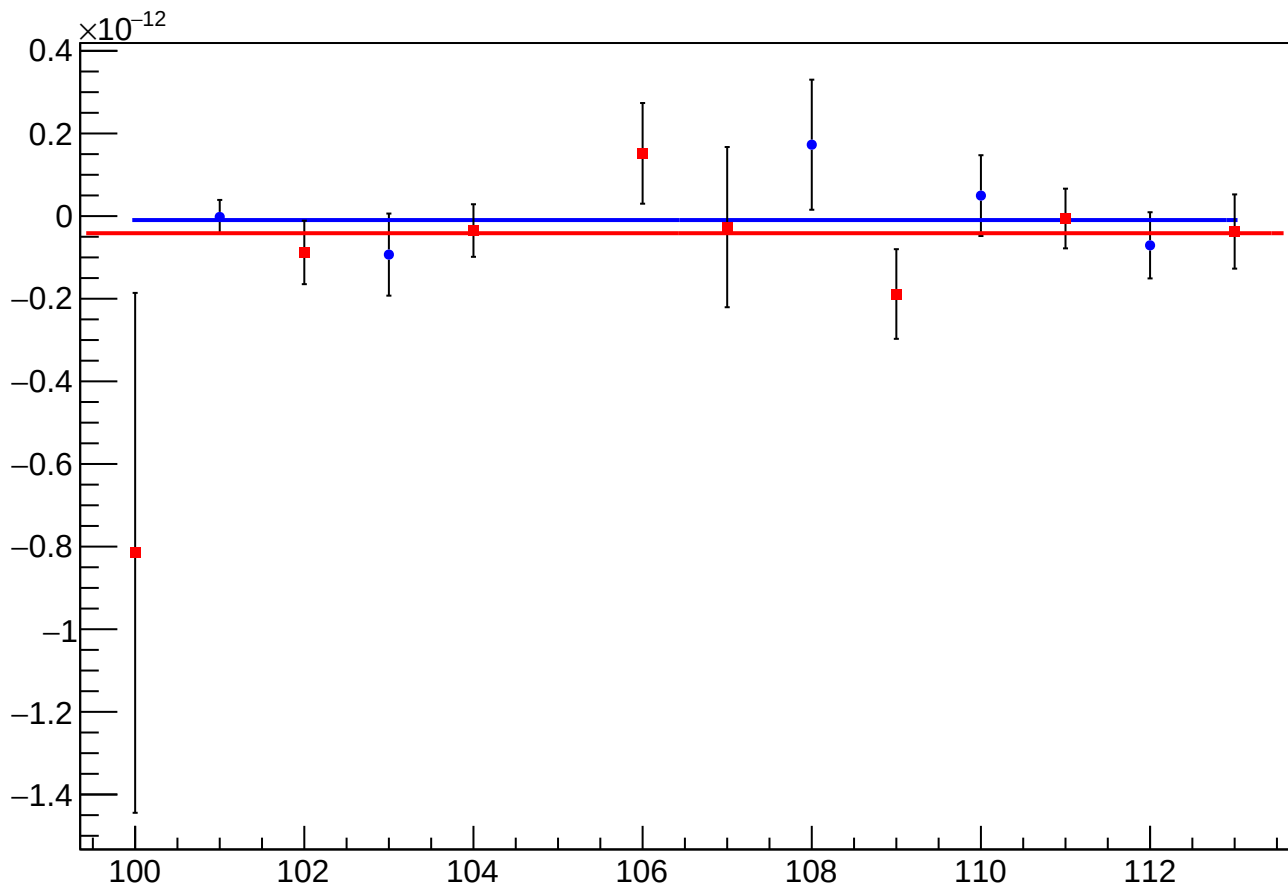
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.549+/-0.022  $\chi^2/\text{NDF}$ : 218037.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.5/7

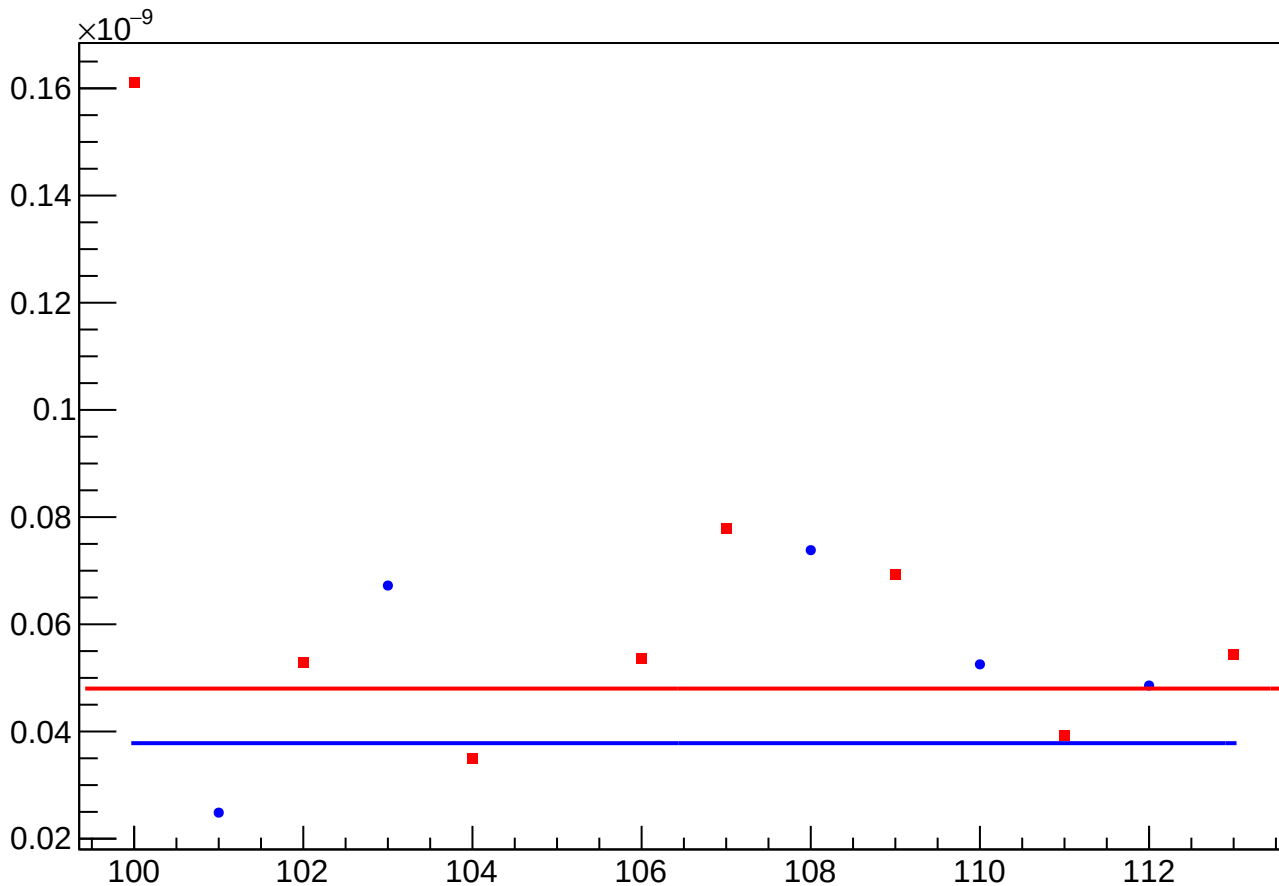
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 559419.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 324710.1/7

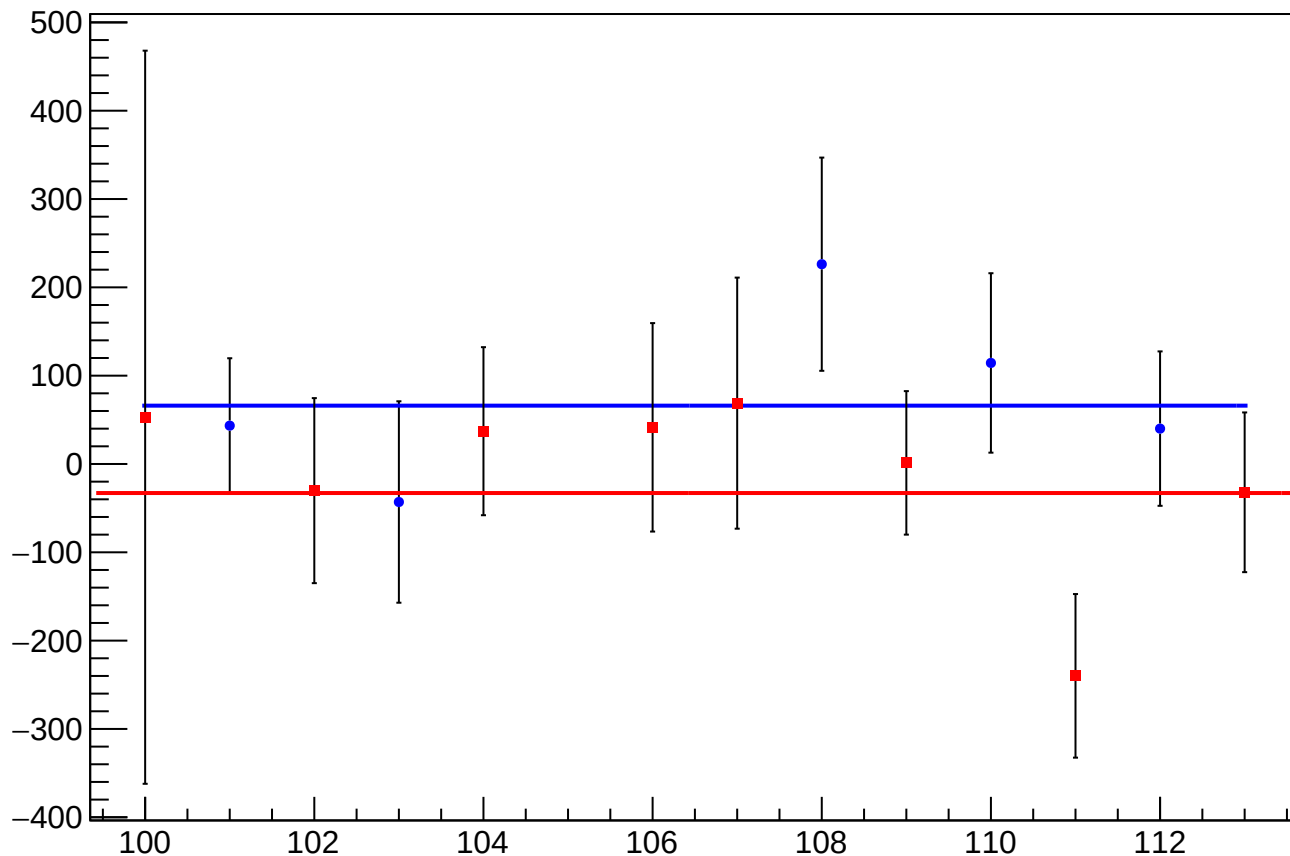
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 982835.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 66.049+/-42.837  $\chi^2/\text{NDF}$ : 3.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32.887+/-37.291  $\chi^2/\text{NDF}$ : 6.7/7

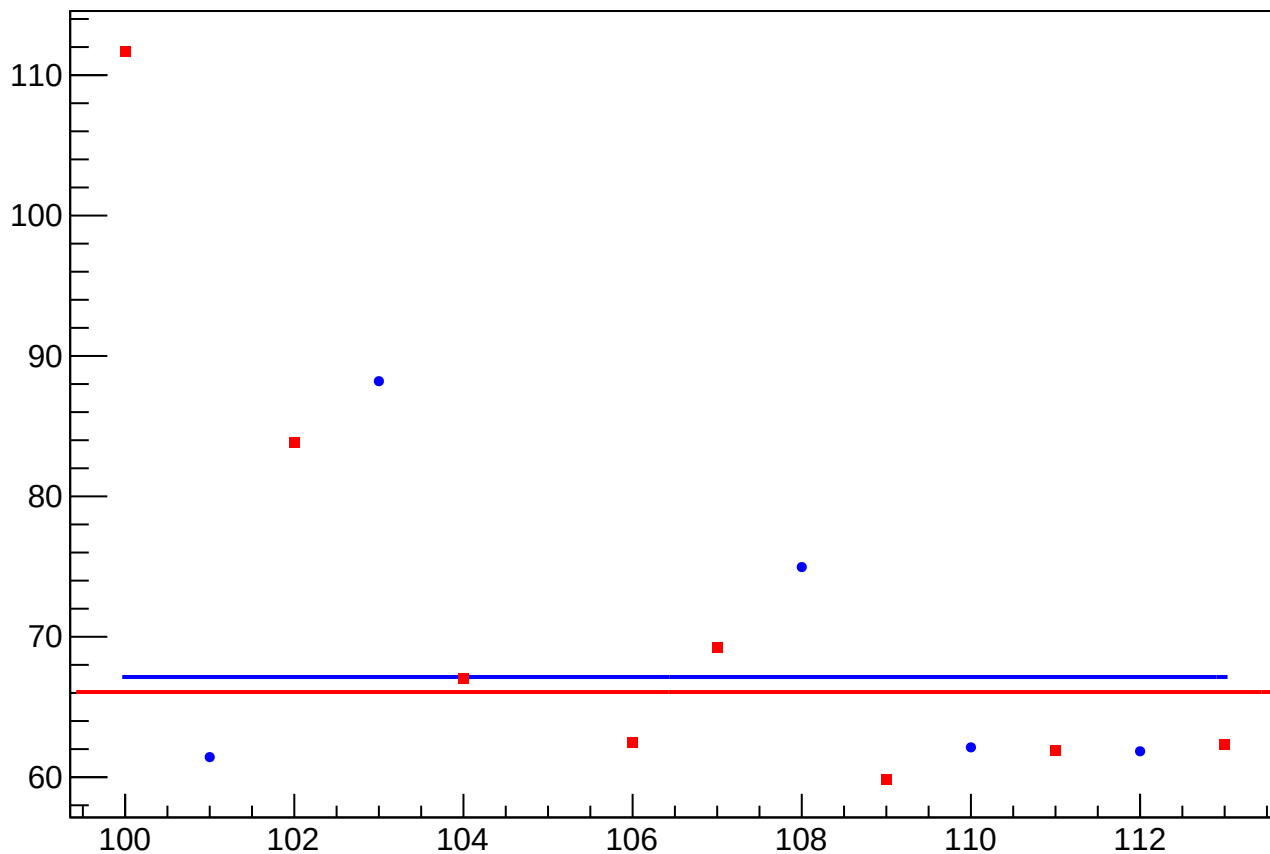
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.766+/-28.127  $\chi^2/\text{NDF}$ : 12.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 67.136+/-0.030  $\chi^2/\text{NDF}$ : 100039.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 66.066+/-0.026  $\chi^2/\text{NDF}$ : 104119.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

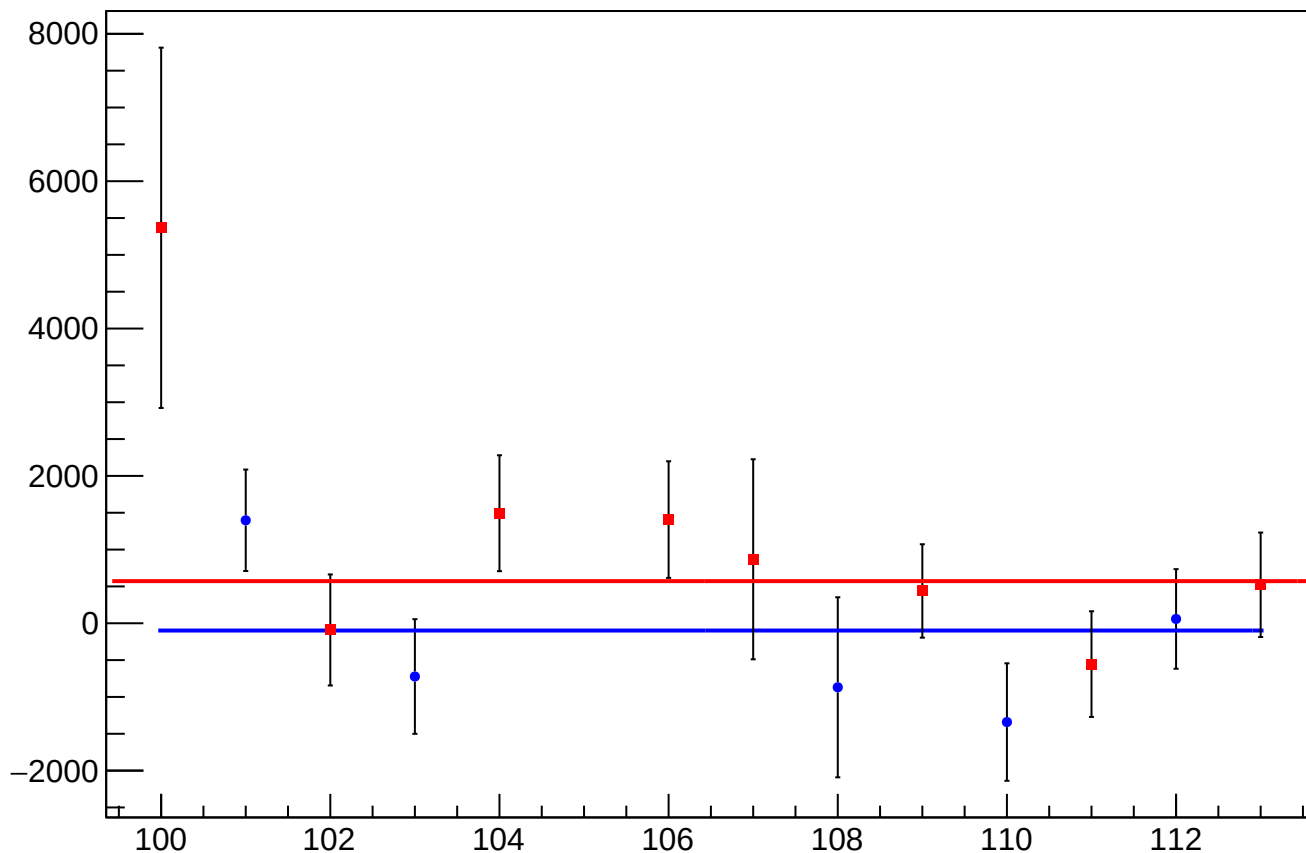
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.527+/-0.020  $\chi^2/\text{NDF}$ : 204869.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_48\_dd\_reg\_correction\_mean vs Slug



Right In: -98.688 $\pm$ 349.349  $\chi^2$ /NDF: 8.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 571.637 $\pm$ 287.404  $\chi^2$ /NDF: 9.7/7

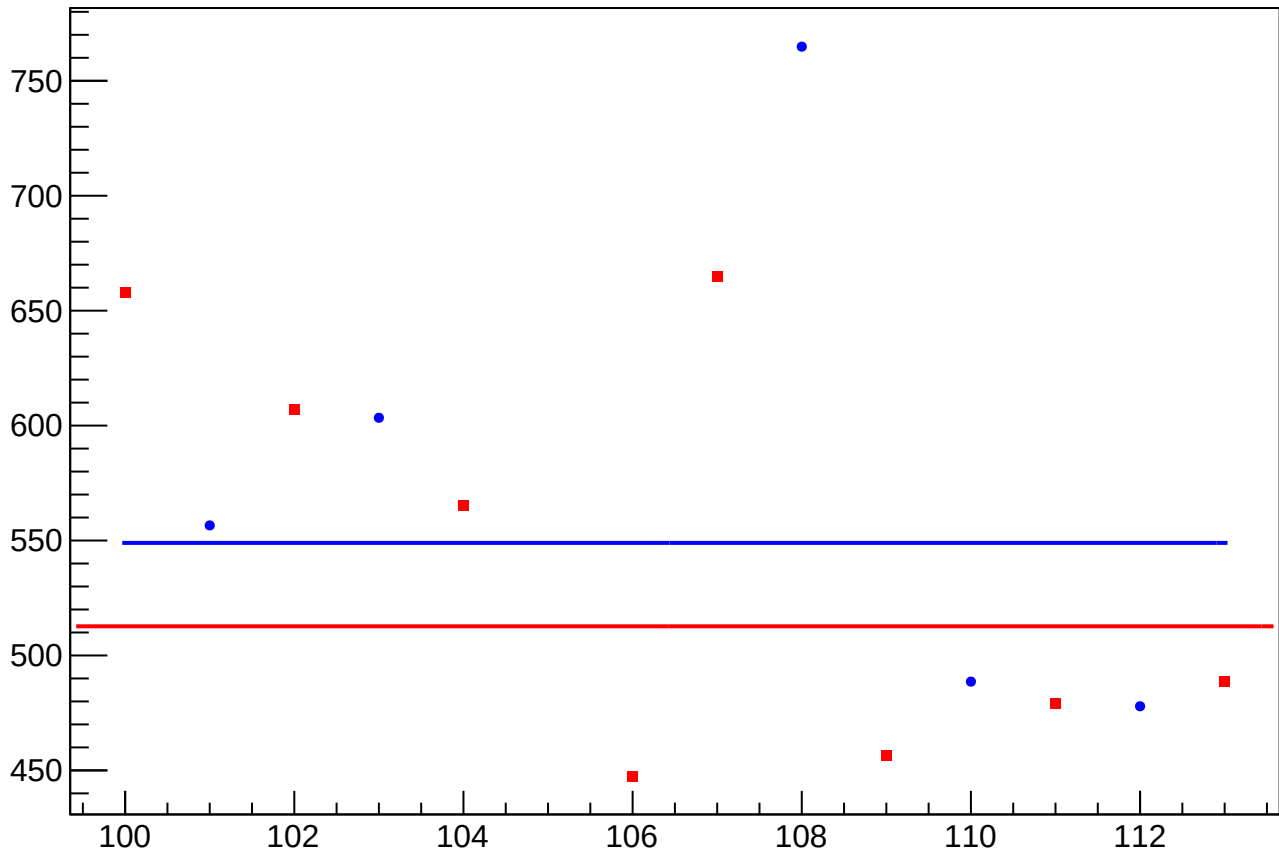
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 301.074 $\pm$ 221.948  $\chi^2$ /NDF: 20.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_reg\_correction\_rms vs Slug



Right In: 548.974 $\pm$ 0.247  $\chi^2$ /NDF: 106031.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 512.684 $\pm$ 0.203  $\chi^2$ /NDF: 108624.3/7

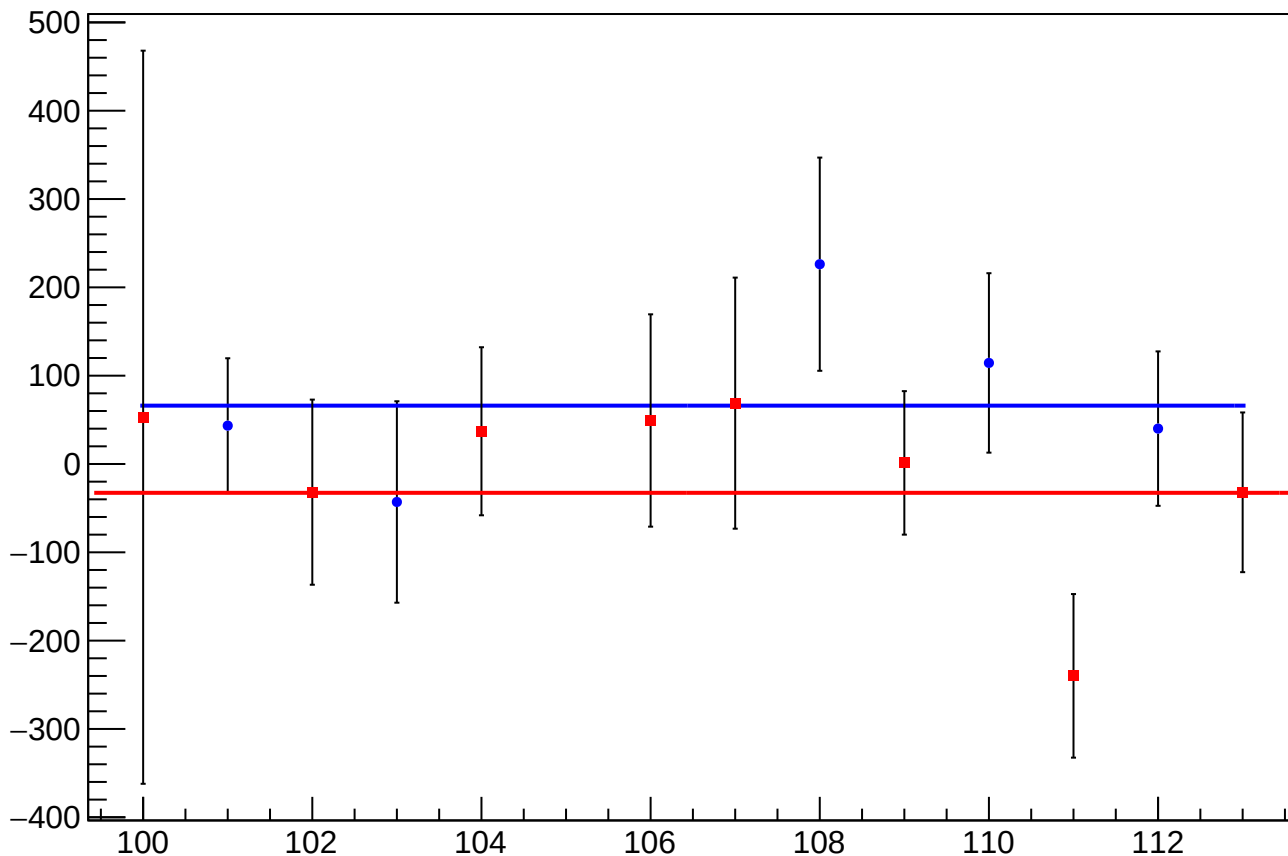
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 527.331 $\pm$ 0.157  $\chi^2$ /NDF: 227526.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 66.065 $\pm$ 42.837  $\chi^2$ /NDF: 3.1/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -32.641 $\pm$ -37.361  $\chi^2$ /NDF: 6.7/7

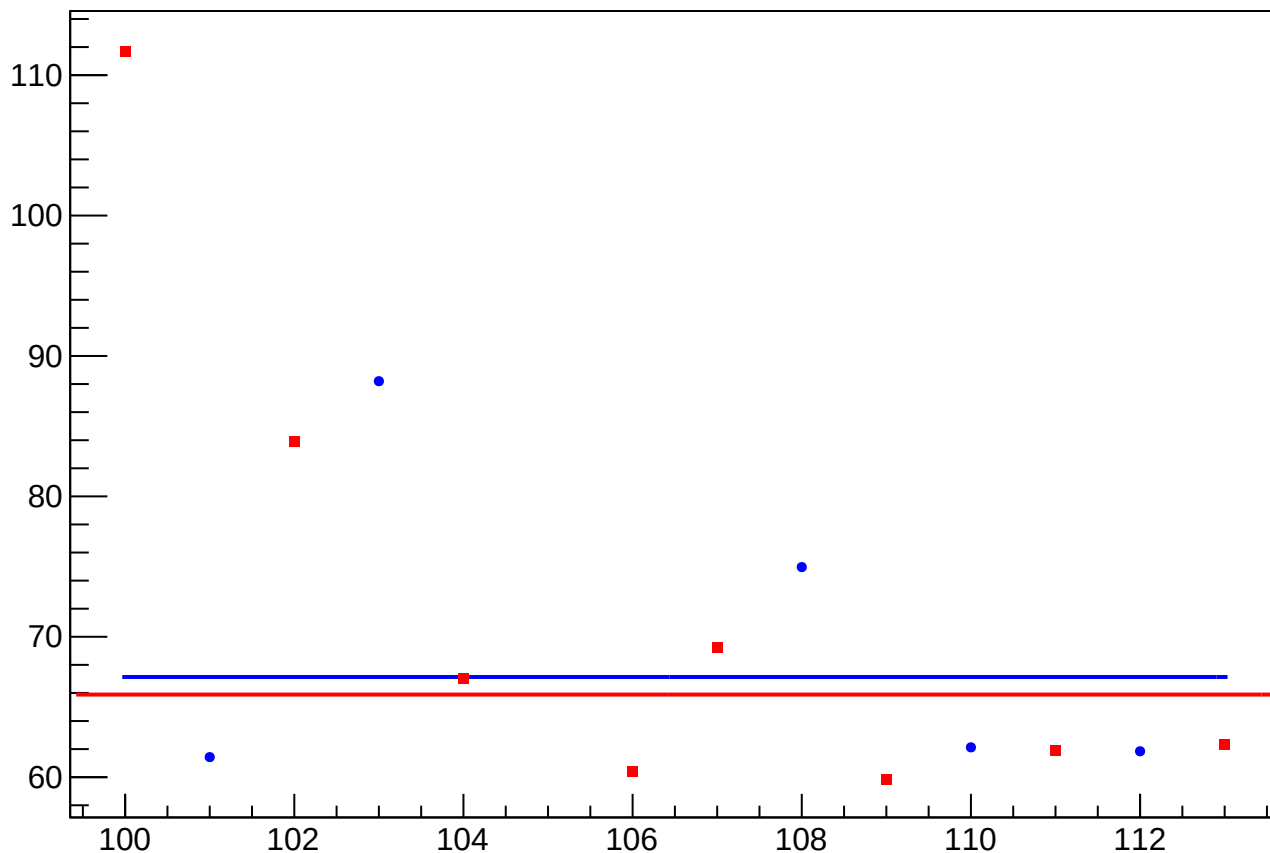
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 10.003 $\pm$ -28.157  $\chi^2$ /NDF: 12.8/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 67.136+/-0.030  $\chi^2/\text{NDF}$ : 100042.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 65.884+/-0.026  $\chi^2/\text{NDF}$ : 106804.2/7

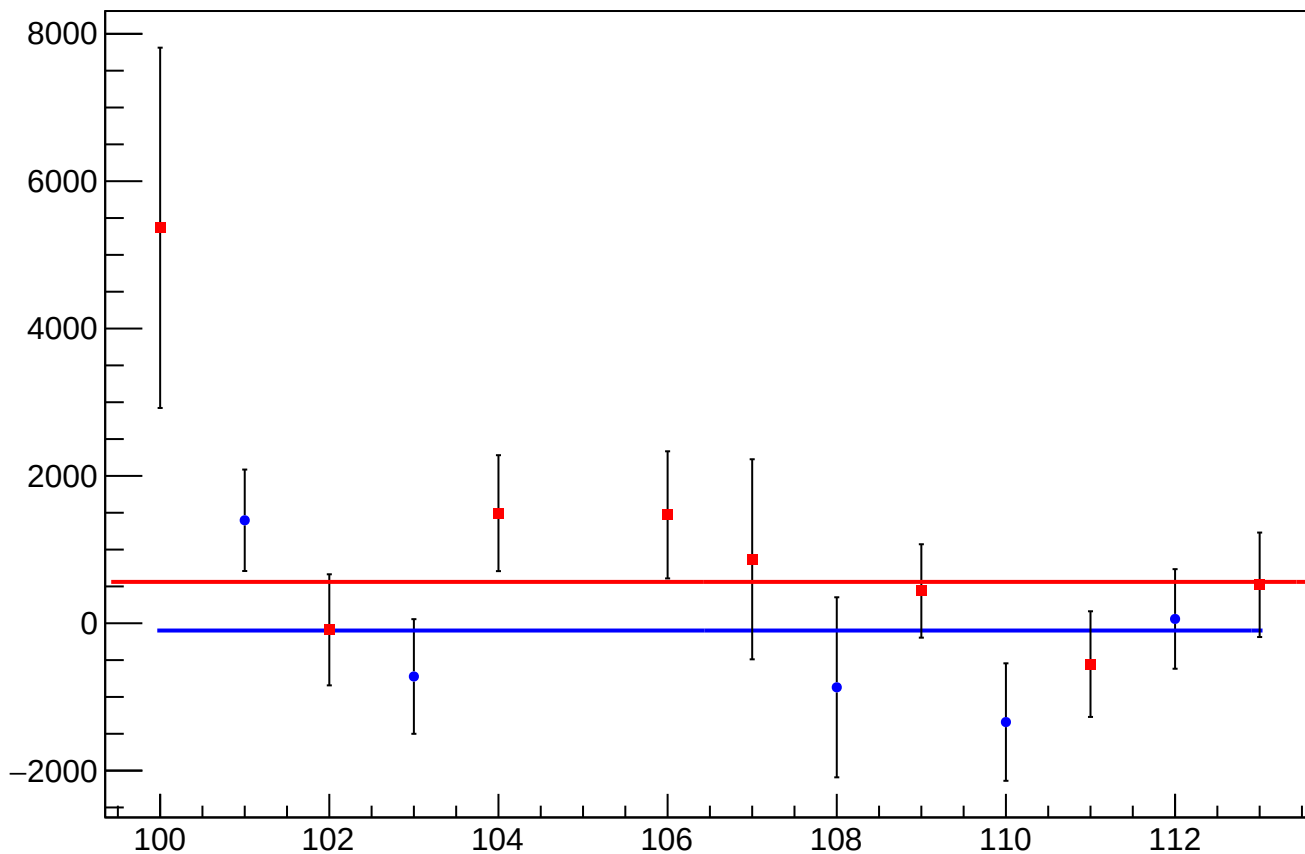
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.425+/-0.020  $\chi^2/\text{NDF}$ : 207816.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_cor\_correction\_mean vs Slug



Right In: -98.614 $\pm$ 349.354  $\chi^2$ /NDF: 8.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 561.490 $\pm$ 290.480  $\chi^2$ /NDF: 9.6/7

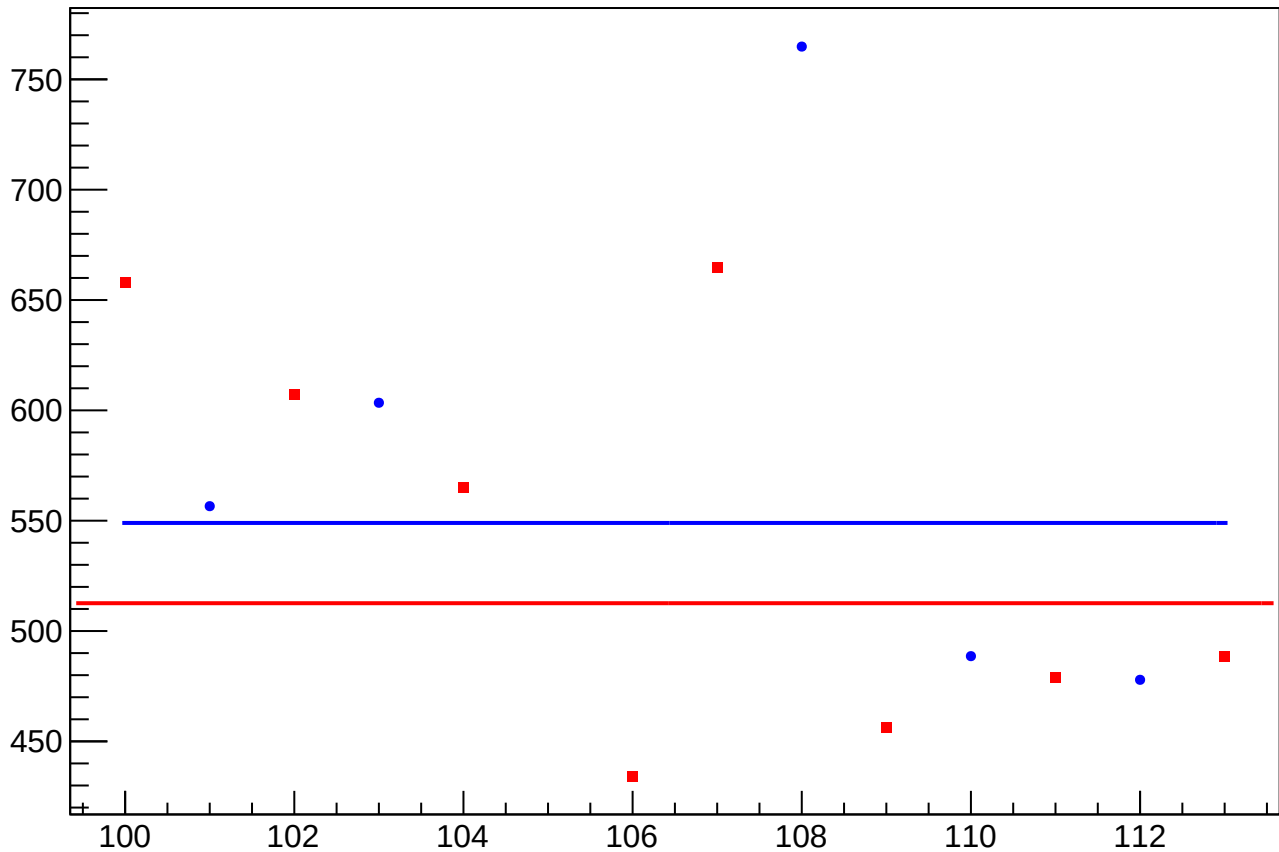
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 291.667 $\pm$ 223.357  $\chi^2$ /NDF: 20.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_cor\_correction\_rms vs Slug



Right In: 548.981+/-0.247  $\chi^2/\text{NDF}$ : 106047.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 512.610+/-0.205  $\chi^2/\text{NDF}$ : 111734.4/7

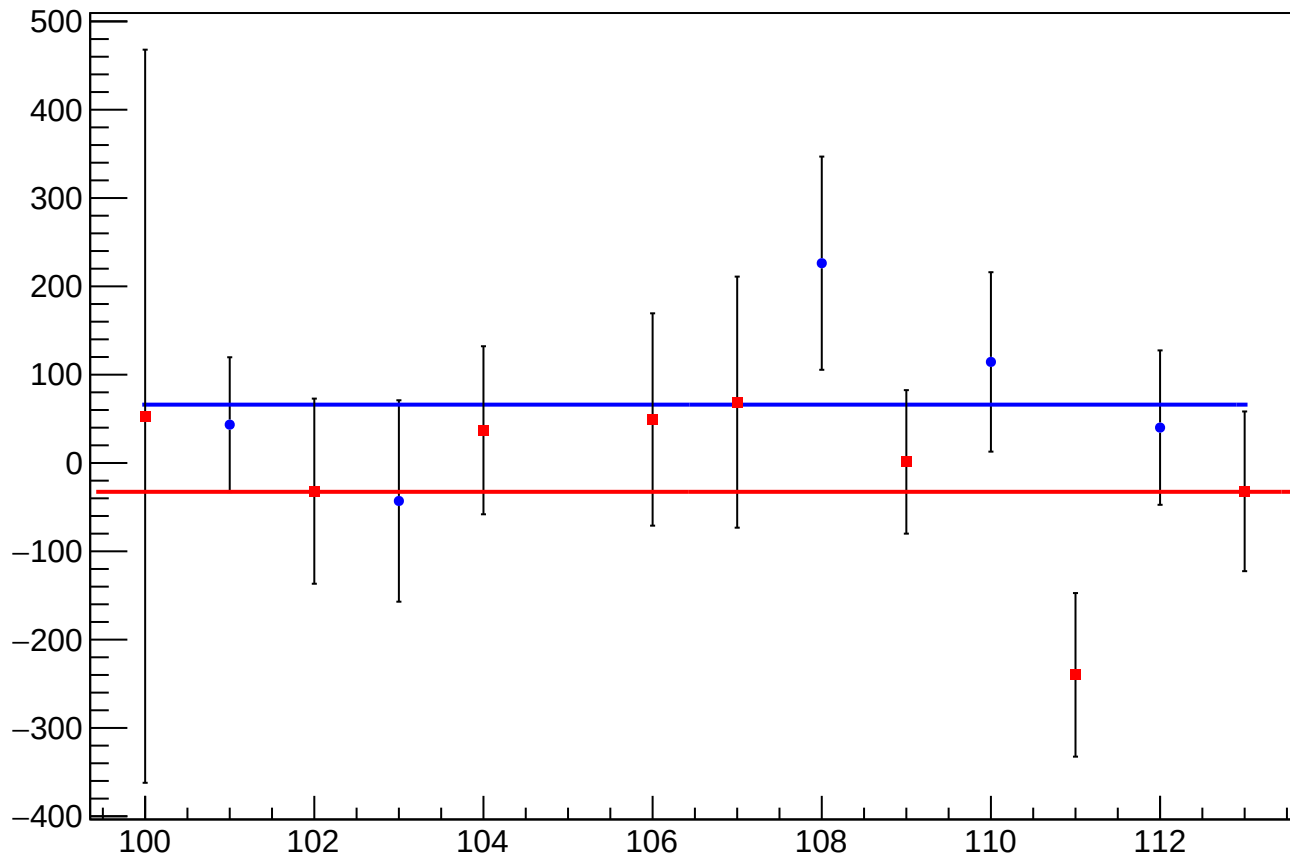
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 527.477+/-0.158  $\chi^2/\text{NDF}$ : 230598.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 66.065 $\pm$ 42.837  $\chi^2$ /NDF: 3.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -32.641 $\pm$ 37.361  $\chi^2$ /NDF: 6.7/7

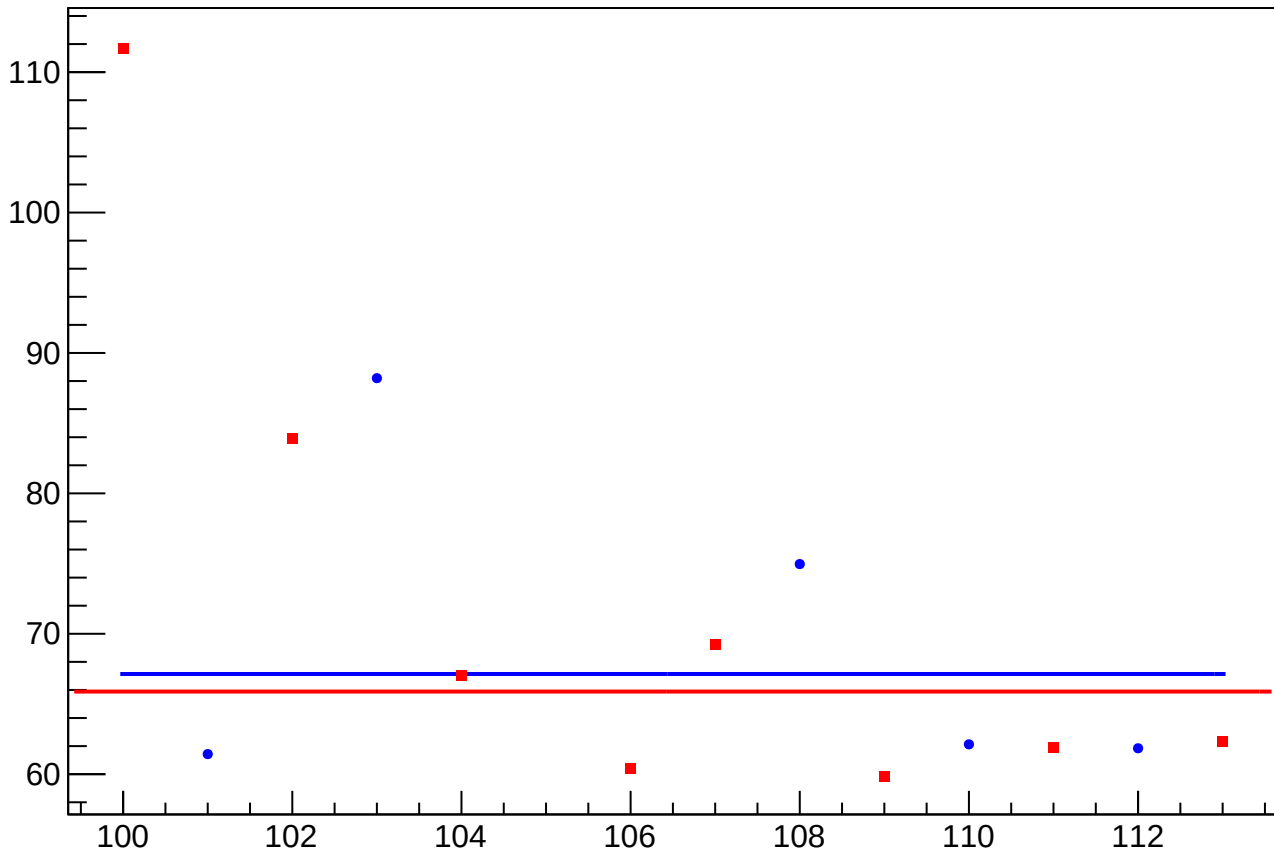
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.003 $\pm$ 28.157  $\chi^2$ /NDF: 12.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 67.136 $\pm$ 0.030  $\chi^2$ /NDF: 100042.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 65.884 $\pm$ 0.026  $\chi^2$ /NDF: 106804.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

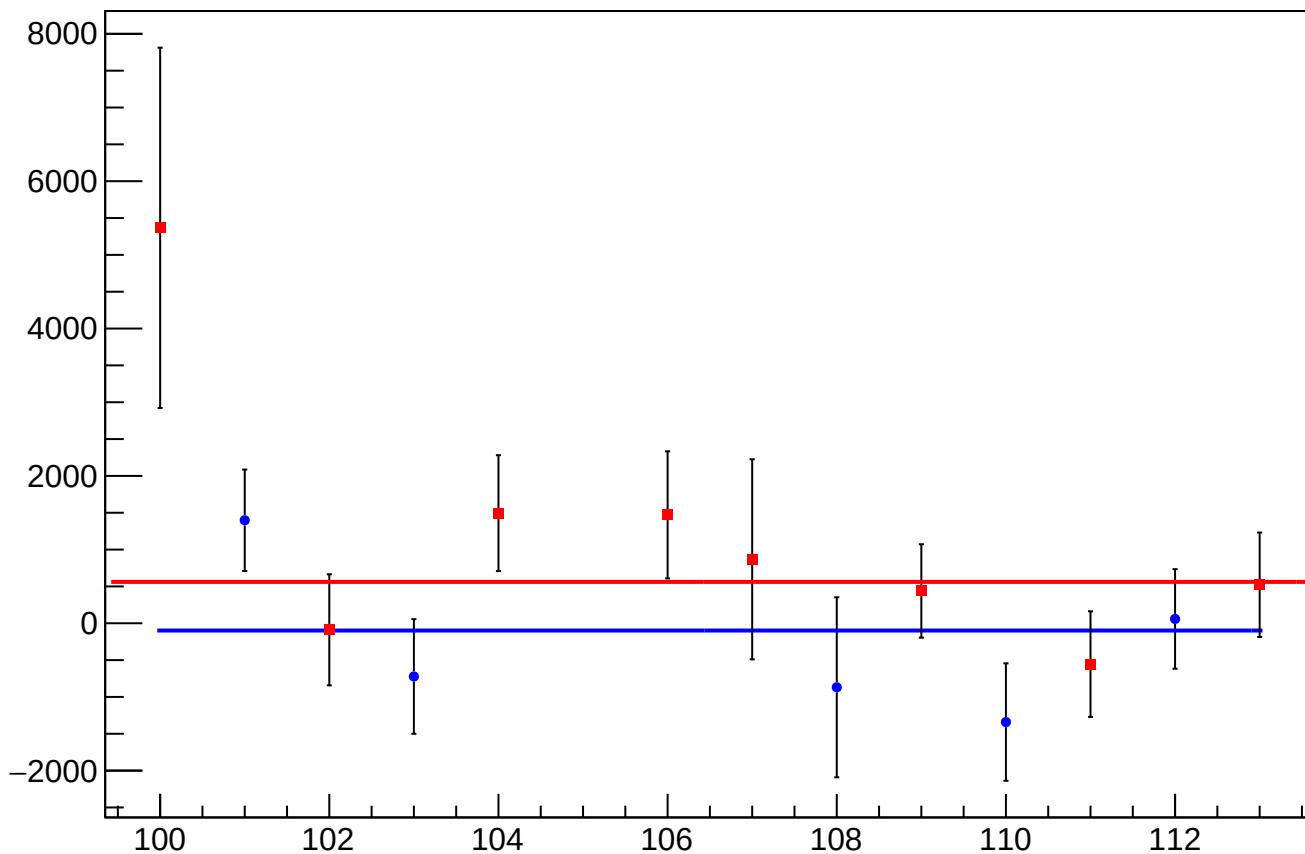
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 66.425 $\pm$ 0.020  $\chi^2$ /NDF: 207816.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_48\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -98.614 $\pm$ 349.354  $\chi^2$ /NDF: 8.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 561.490 $\pm$ 290.480  $\chi^2$ /NDF: 9.6/7

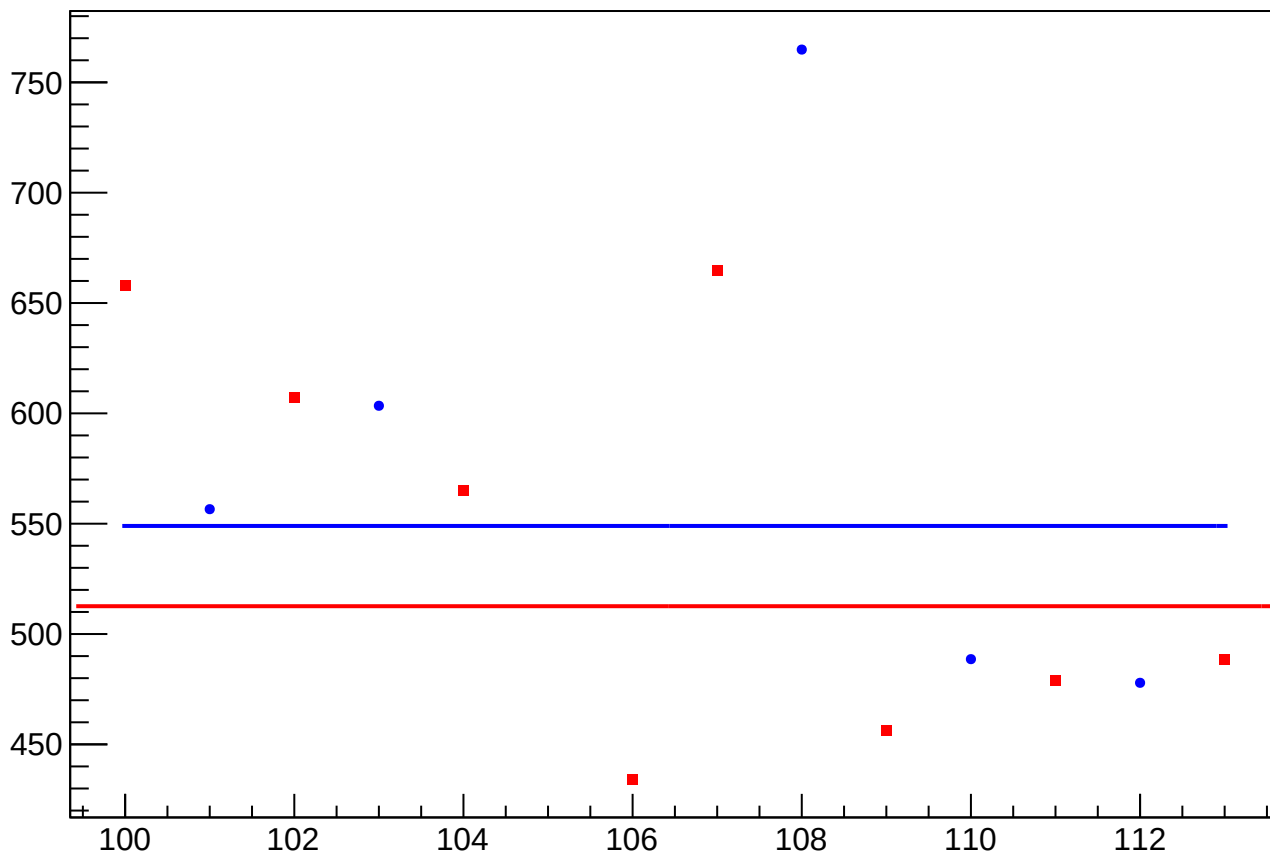
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 291.667 $\pm$ 223.357  $\chi^2$ /NDF: 20.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 548.981 $\pm$ 0.247  $\chi^2$ /NDF: 106047.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 512.610 $\pm$ 0.205  $\chi^2$ /NDF: 111734.4/7

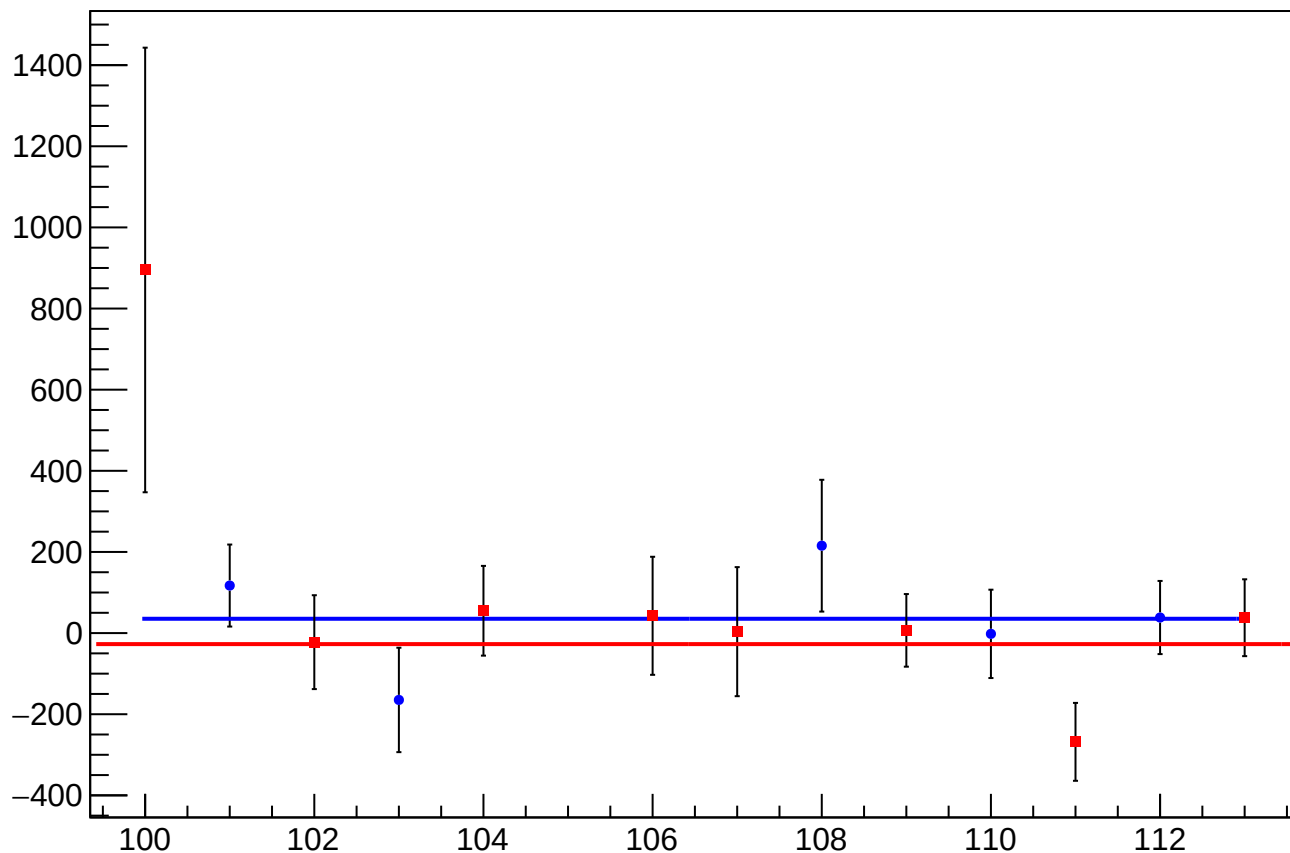
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 527.477 $\pm$ 0.158  $\chi^2$ /NDF: 230598.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 35.299 $\pm$ 49.780  $\chi^2$ /NDF: 4.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -27.168 $\pm$ 41.125  $\chi^2$ /NDF: 10.6/7

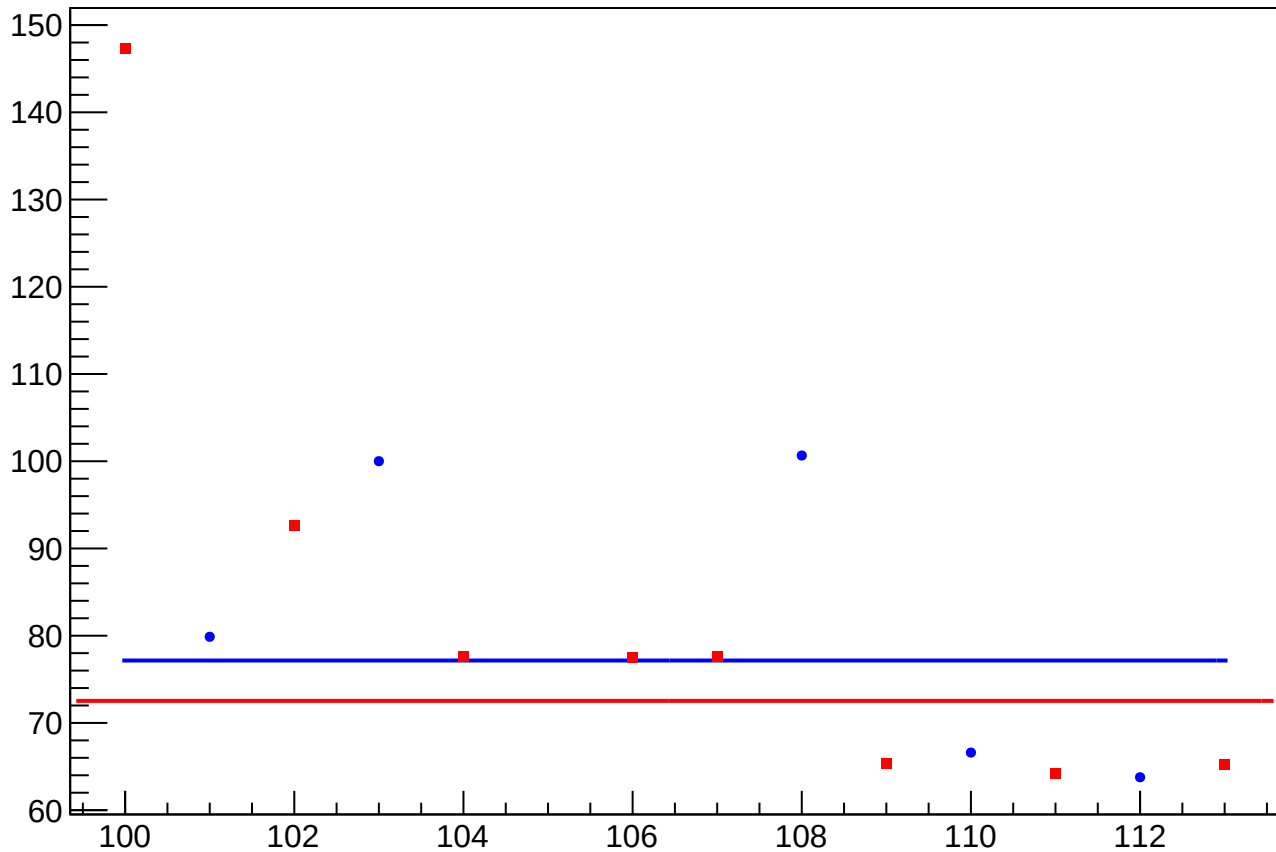
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.829 $\pm$ 31.705  $\chi^2$ /NDF: 15.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 77.156 $\pm$ 0.035  $\chi^2$ /NDF: 169224.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 72.527 $\pm$ 0.029  $\chi^2$ /NDF: 146231.2/7

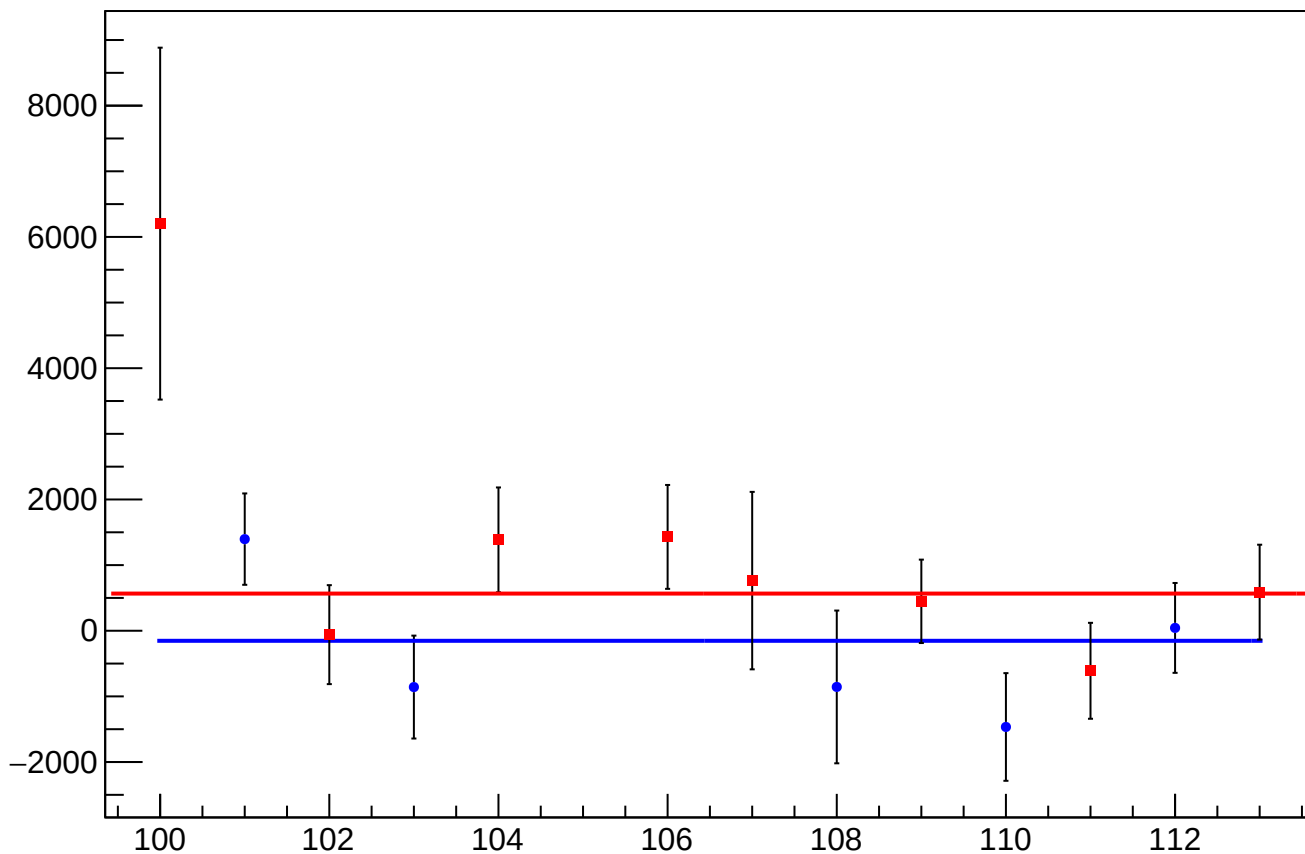
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 74.405 $\pm$ 0.022  $\chi^2$ /NDF: 325732.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_dit\_correction\_mean vs Slug



Right In: -153.268+/-352.438  $\chi^2/\text{NDF}$ : 8.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 566.284+/-290.180  $\chi^2/\text{NDF}$ : 10.0/7

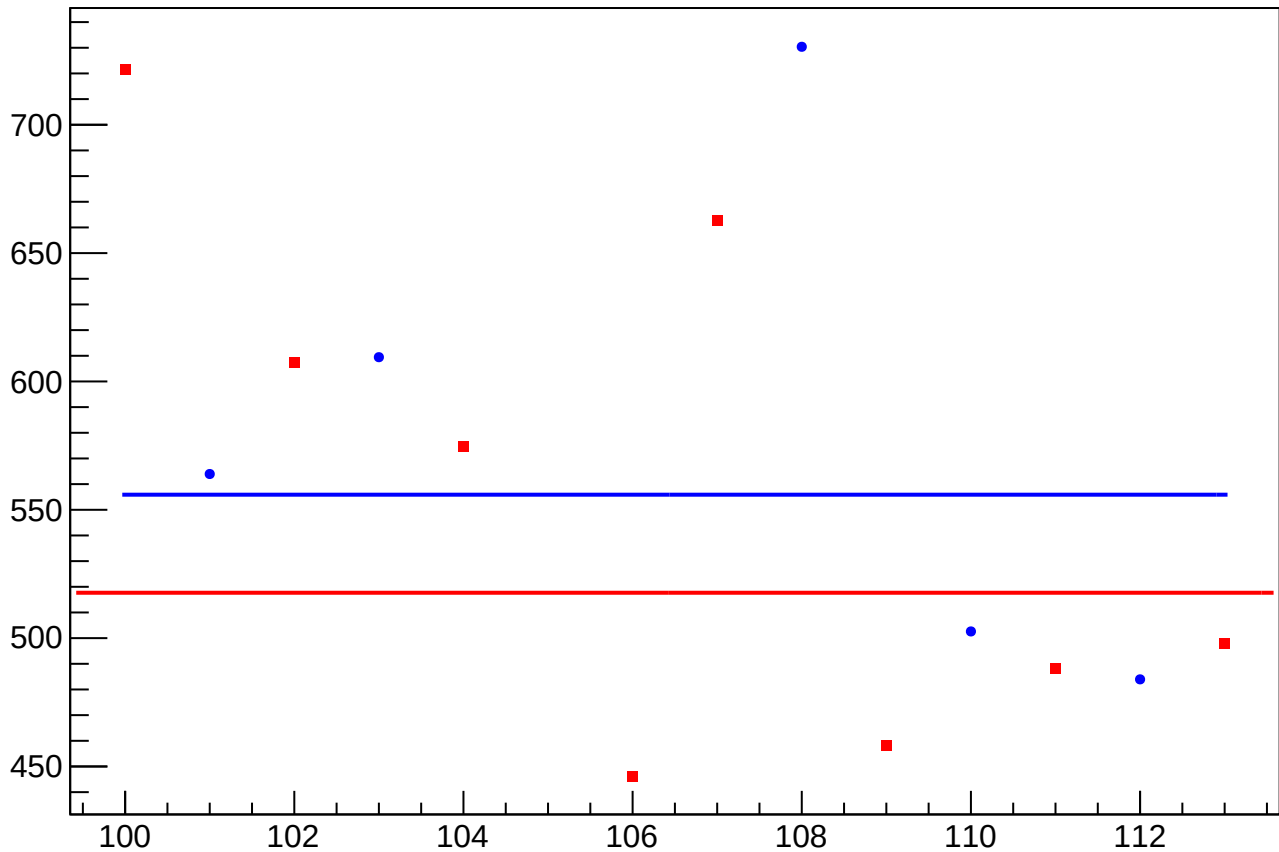
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 275.571+/-224.018  $\chi^2/\text{NDF}$ : 21.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_dit\_correction\_rms vs Slug



Right In: 555.883 $\pm$ 0.249  $\chi^2$ /NDF: 85107.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 517.683 $\pm$ 0.205  $\chi^2$ /NDF: 111855.9/7

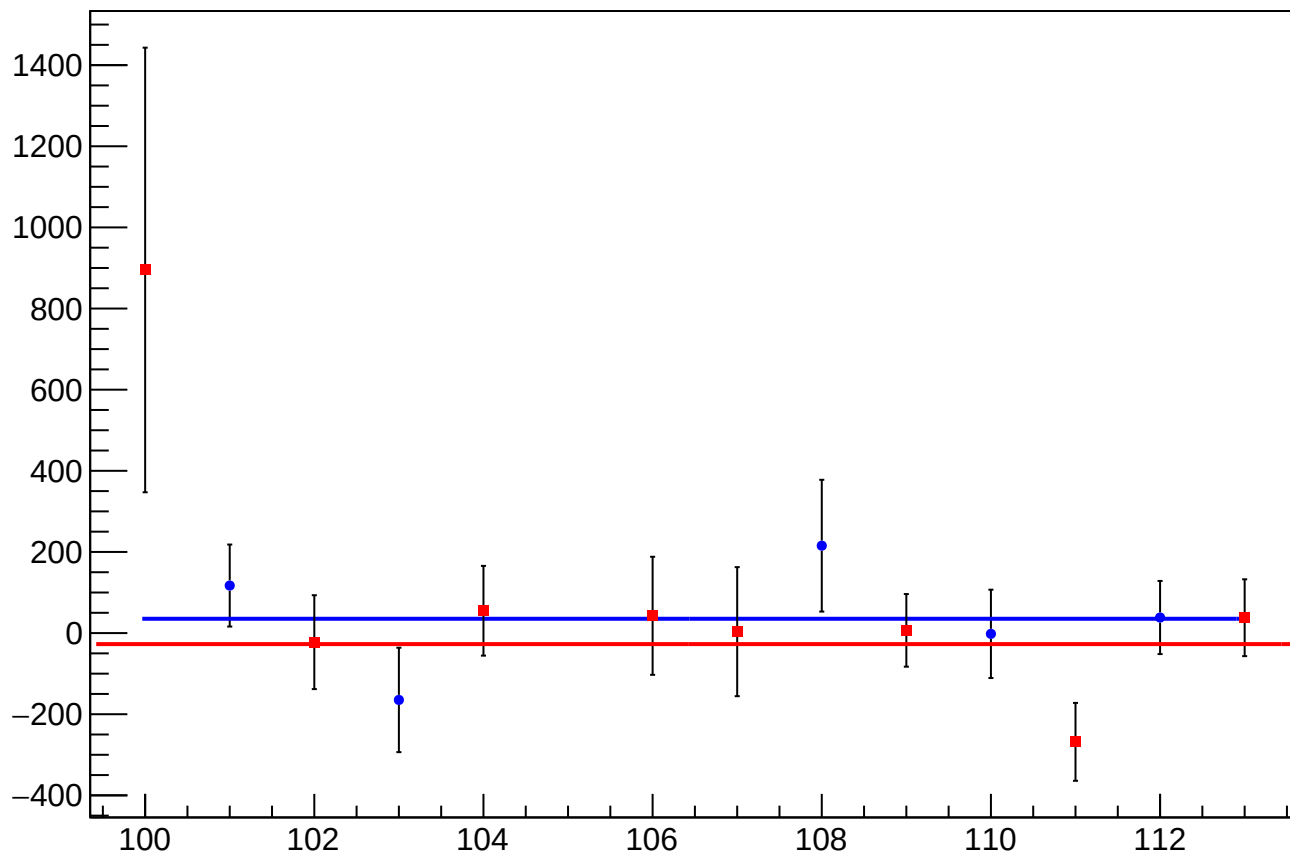
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 533.116 $\pm$ 0.158  $\chi^2$ /NDF: 210966.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 35.299+/-49.780  $\chi^2/\text{NDF}$ : 4.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -27.169+/-41.125  $\chi^2/\text{NDF}$ : 10.6/7

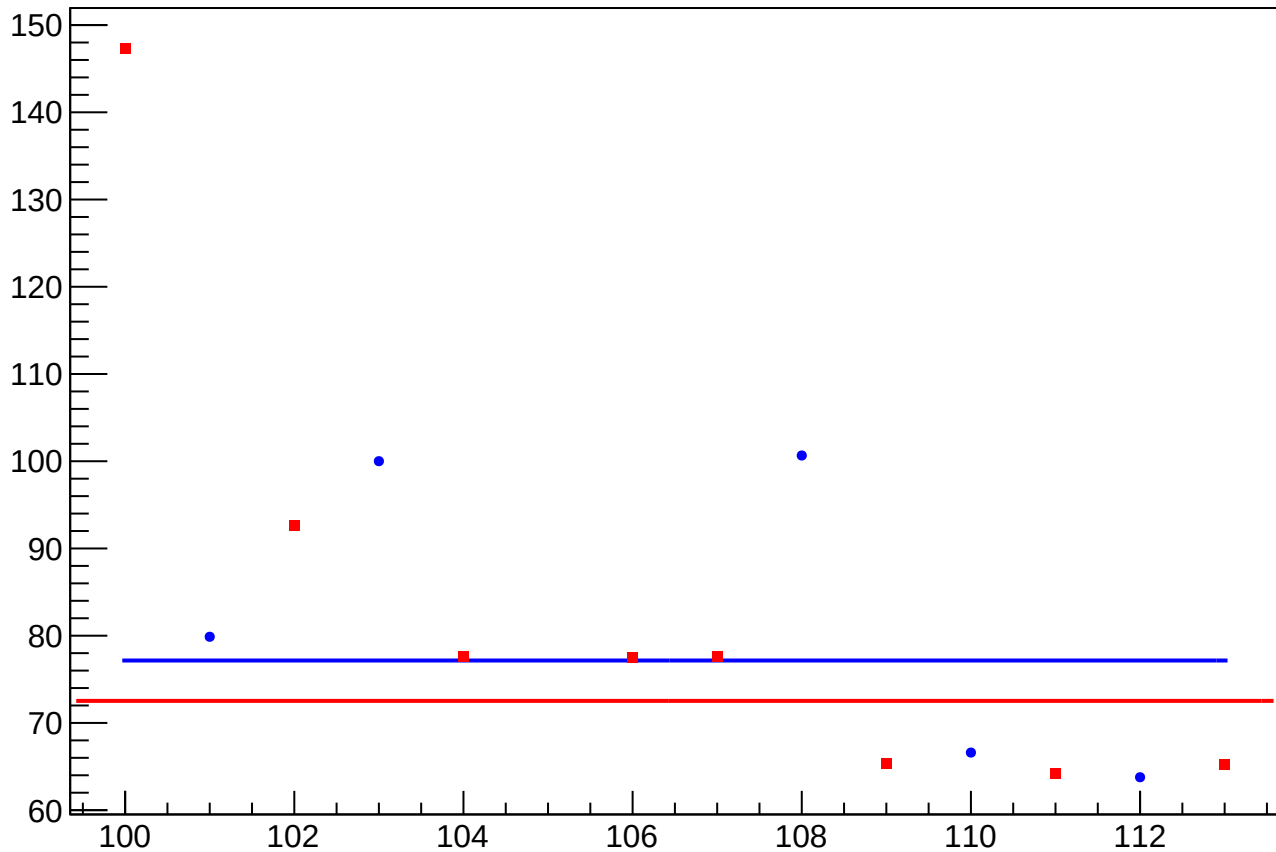
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.830+/-31.705  $\chi^2/\text{NDF}$ : 15.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 77.156 $\pm$ 0.035  $\chi^2$ /NDF: 169228.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 72.527 $\pm$ 0.029  $\chi^2$ /NDF: 146232.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

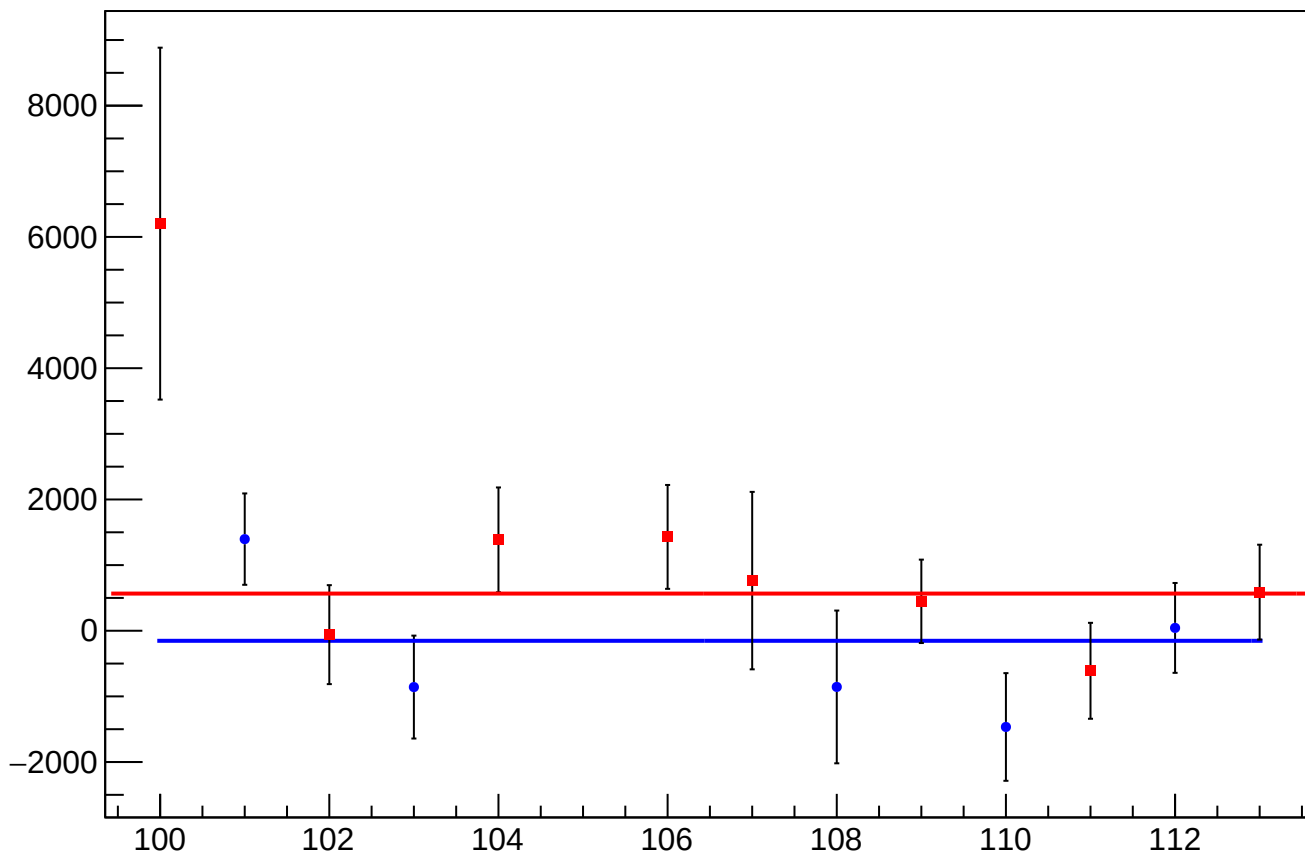
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 74.405 $\pm$ 0.022  $\chi^2$ /NDF: 325737.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_48\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -153.268+/-352.437  $\chi^2/\text{NDF}$ : 8.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 566.283+/-290.179  $\chi^2/\text{NDF}$ : 10.0/7

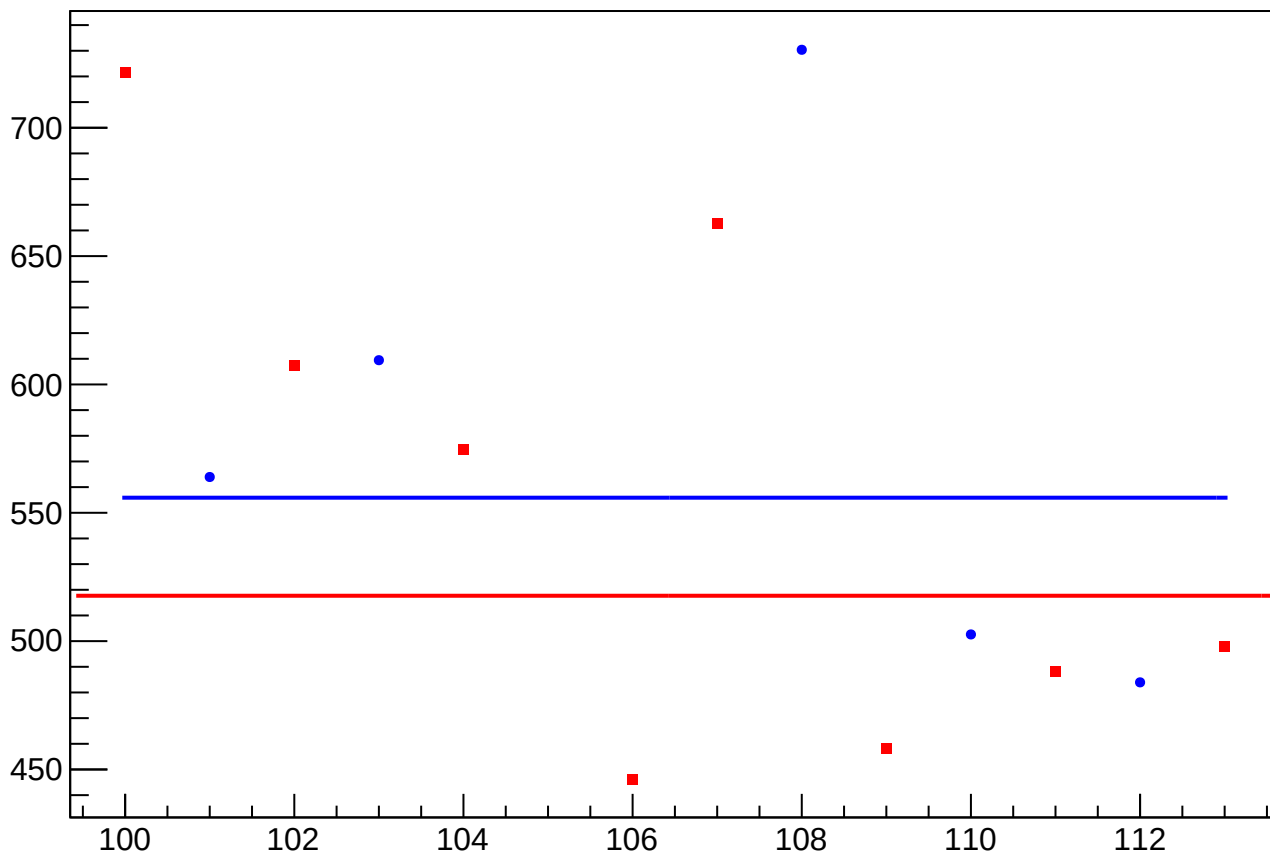
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 275.571+/-224.018  $\chi^2/\text{NDF}$ : 21.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 555.883 $\pm$ 0.249  $\chi^2$ /NDF: 85107.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 517.682 $\pm$ 0.205  $\chi^2$ /NDF: 111856.9/7

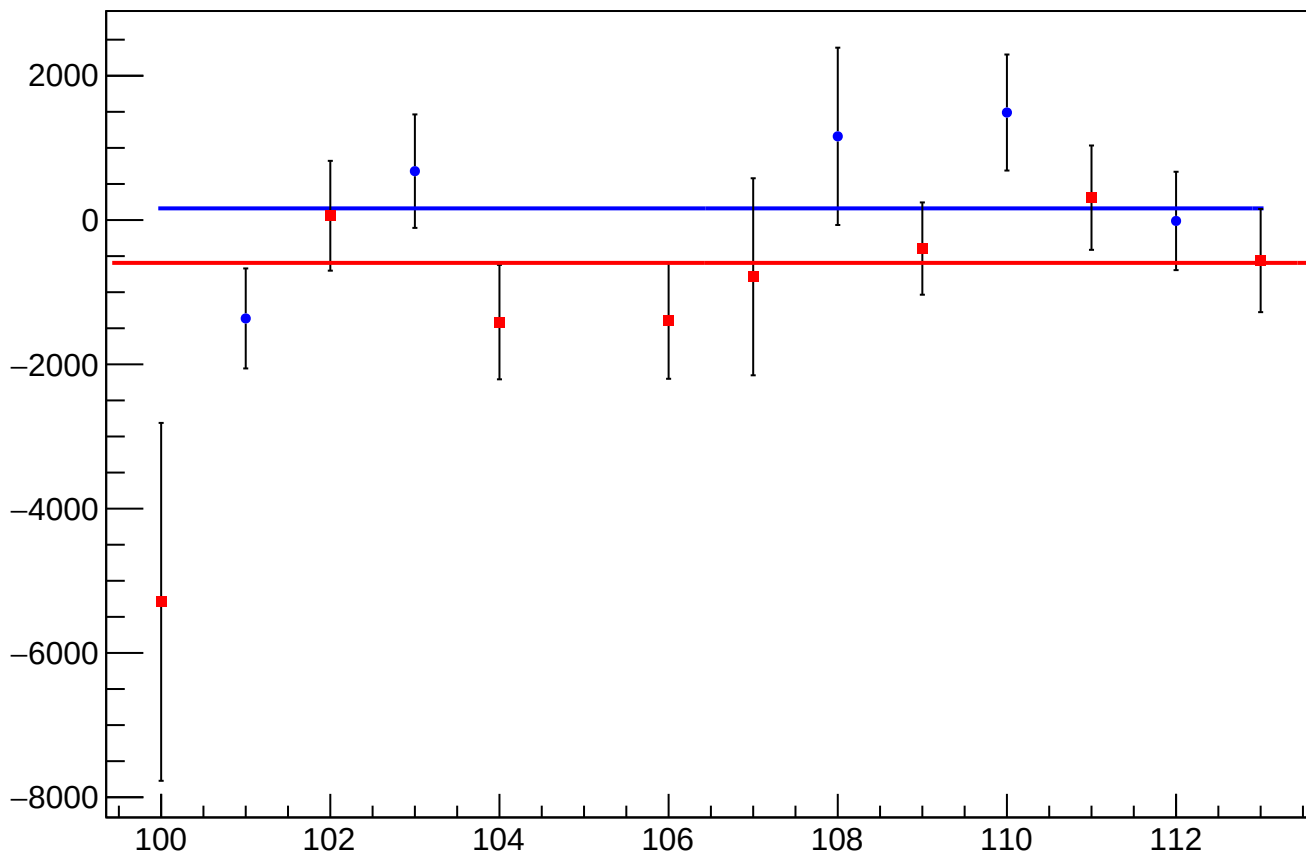
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 533.116 $\pm$ 0.158  $\chi^2$ /NDF: 210968.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 161.810 $\pm$ 352.232  $\chi^2$ /NDF: 8.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -593.707 $\pm$ 290.260  $\chi^2$ /NDF: 8.1/7

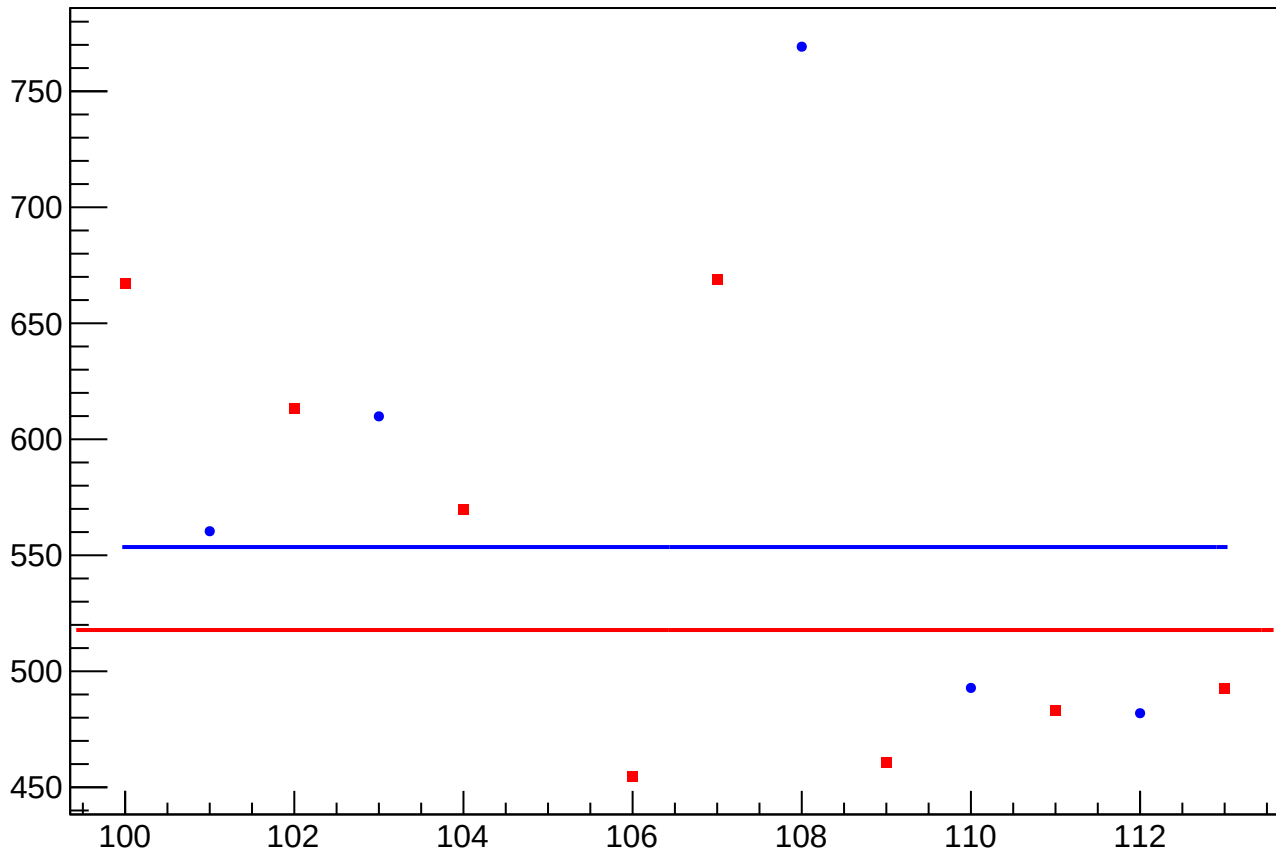
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -288.151 $\pm$ 224.002  $\chi^2$ /NDF: 19.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 553.554 $\pm$ 0.249  $\chi^2$ /NDF: 105550.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 517.788 $\pm$ 0.205  $\chi^2$ /NDF: 107000.9/7

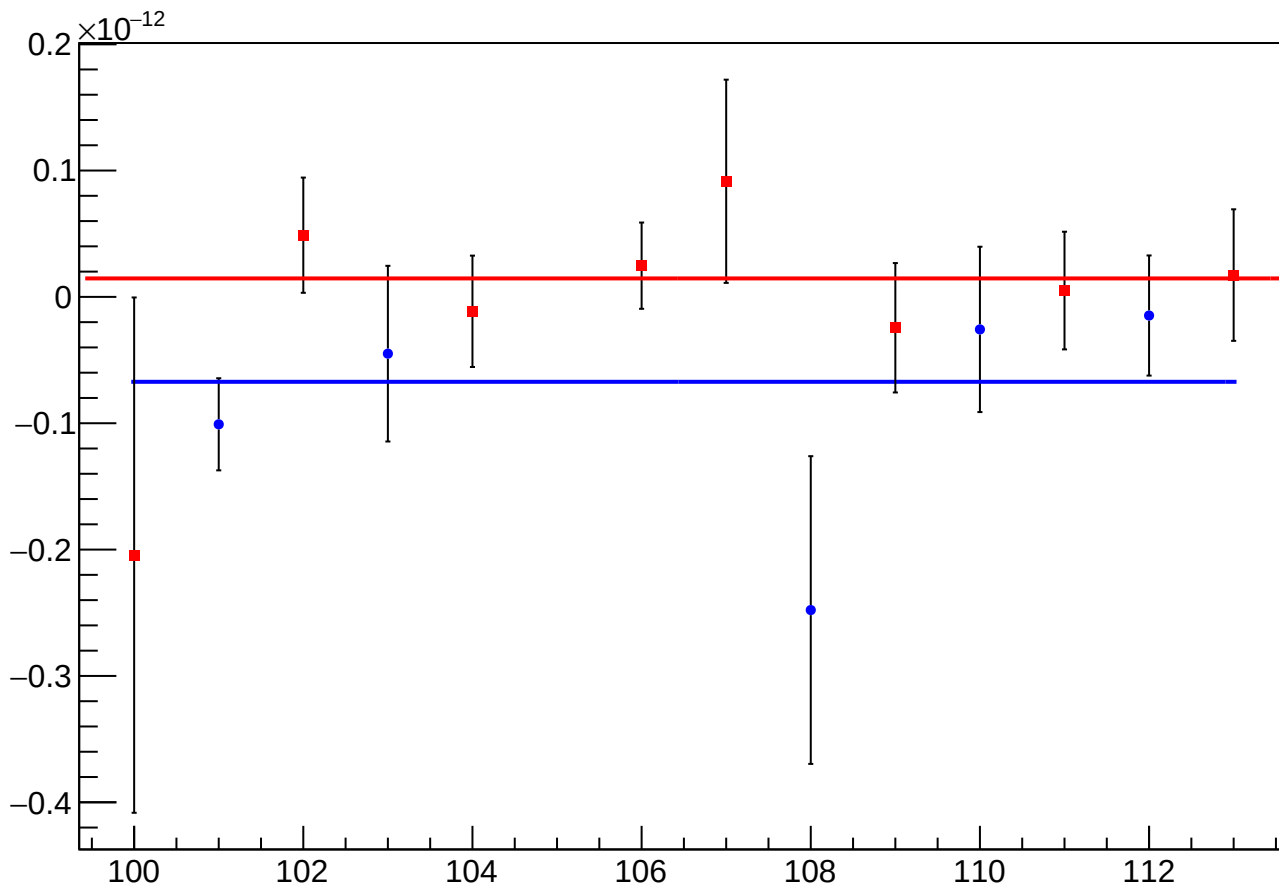
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 532.253 $\pm$ 0.158  $\chi^2$ /NDF: 224833.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 4.8/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 3.7/7

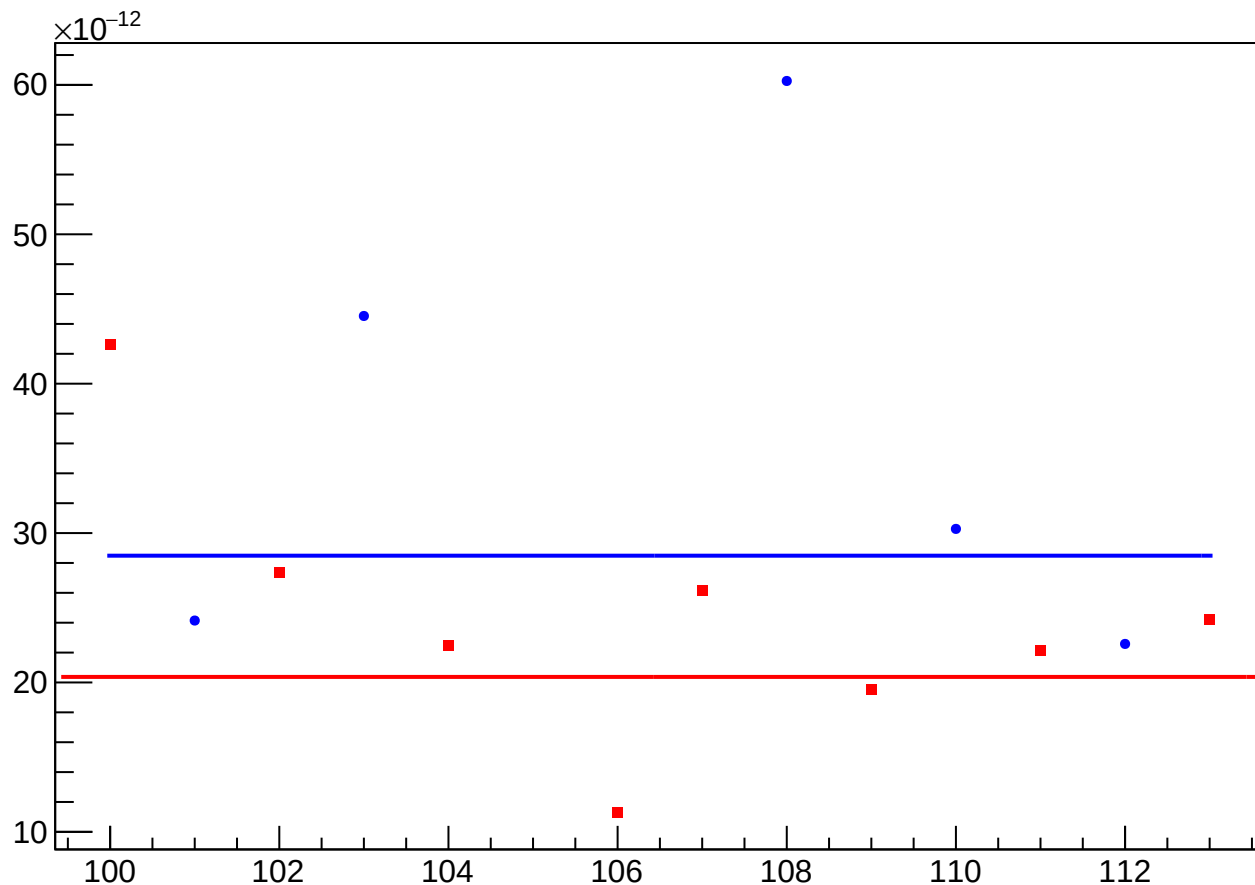
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 15.9/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 303491.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 241289.5/7

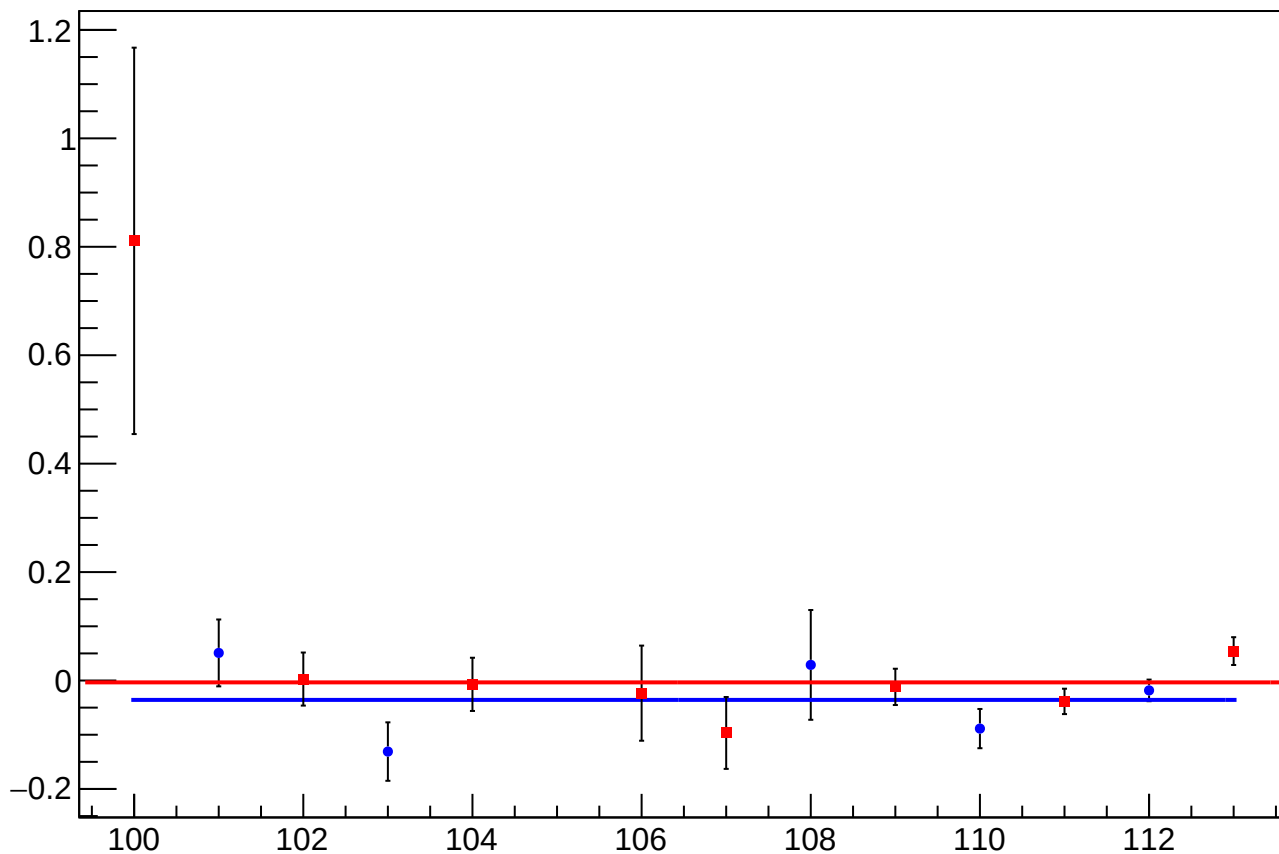
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 691884.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.036 $\pm$ 0.016  $\chi^2$ /NDF: 8.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 14.7/7

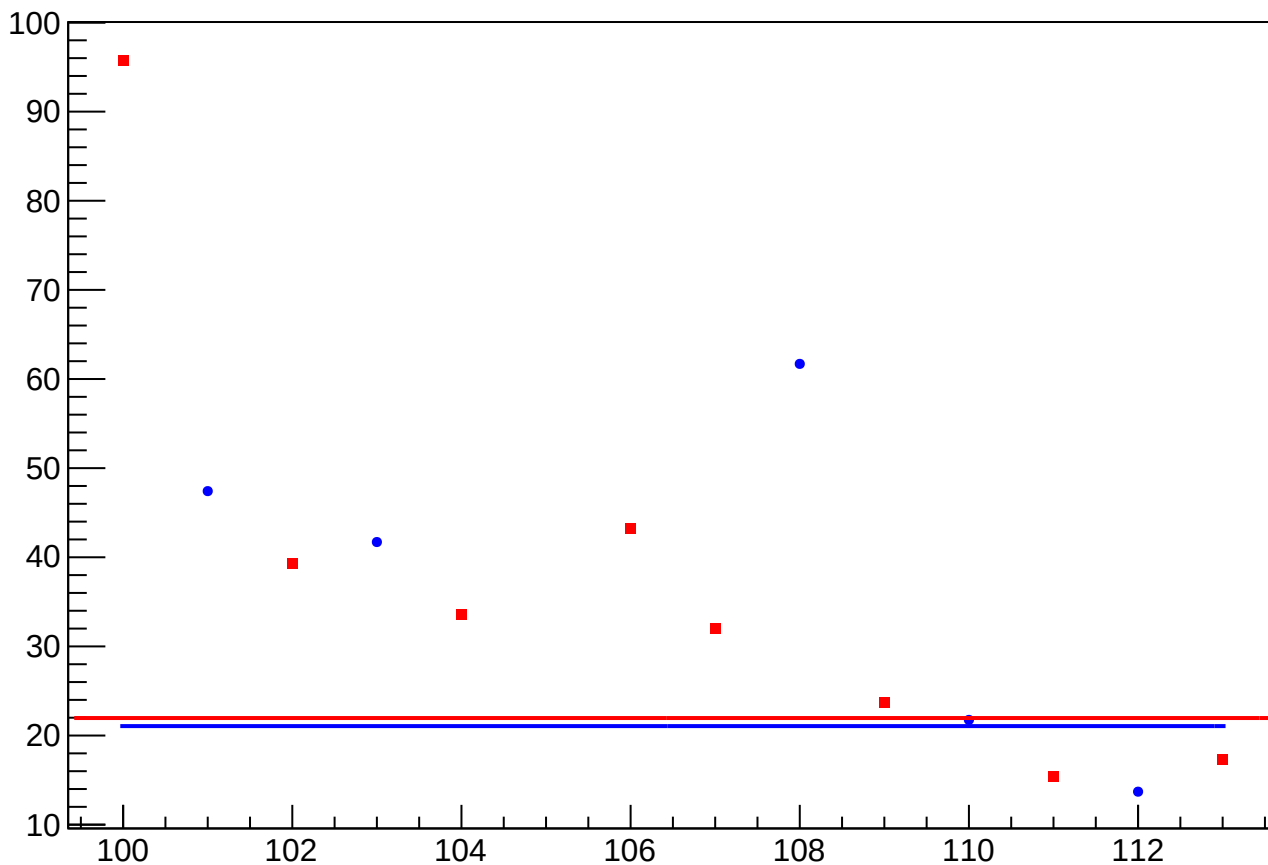
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.010  $\chi^2$ /NDF: 25.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 21.059 $\pm$ 0.011  $\chi^2$ /NDF: 1254641.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.964 $\pm$ 0.010  $\chi^2$ /NDF: 841394.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

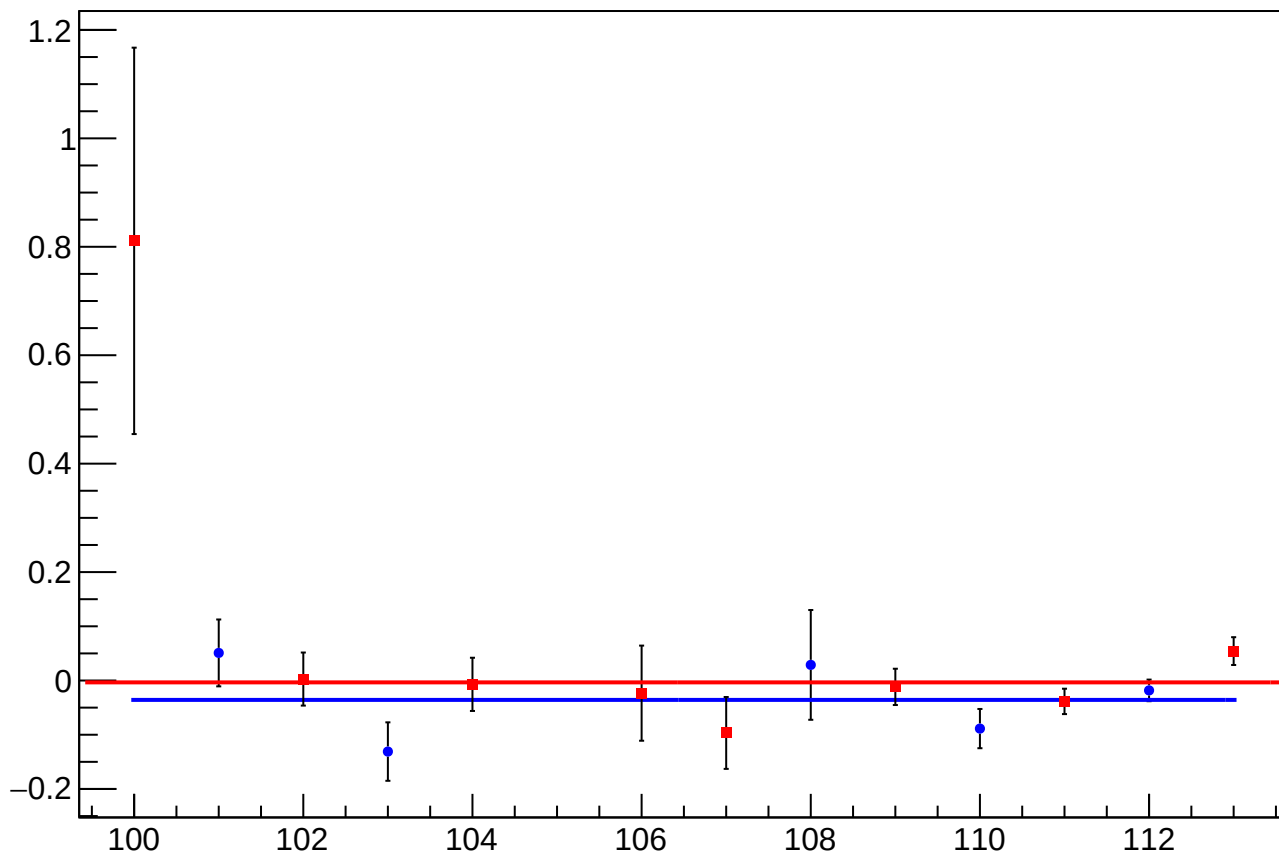
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.581 $\pm$ 0.007  $\chi^2$ /NDF: 2099803.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.036 $\pm$ 0.016  $\chi^2$ /NDF: 8.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 14.7/7

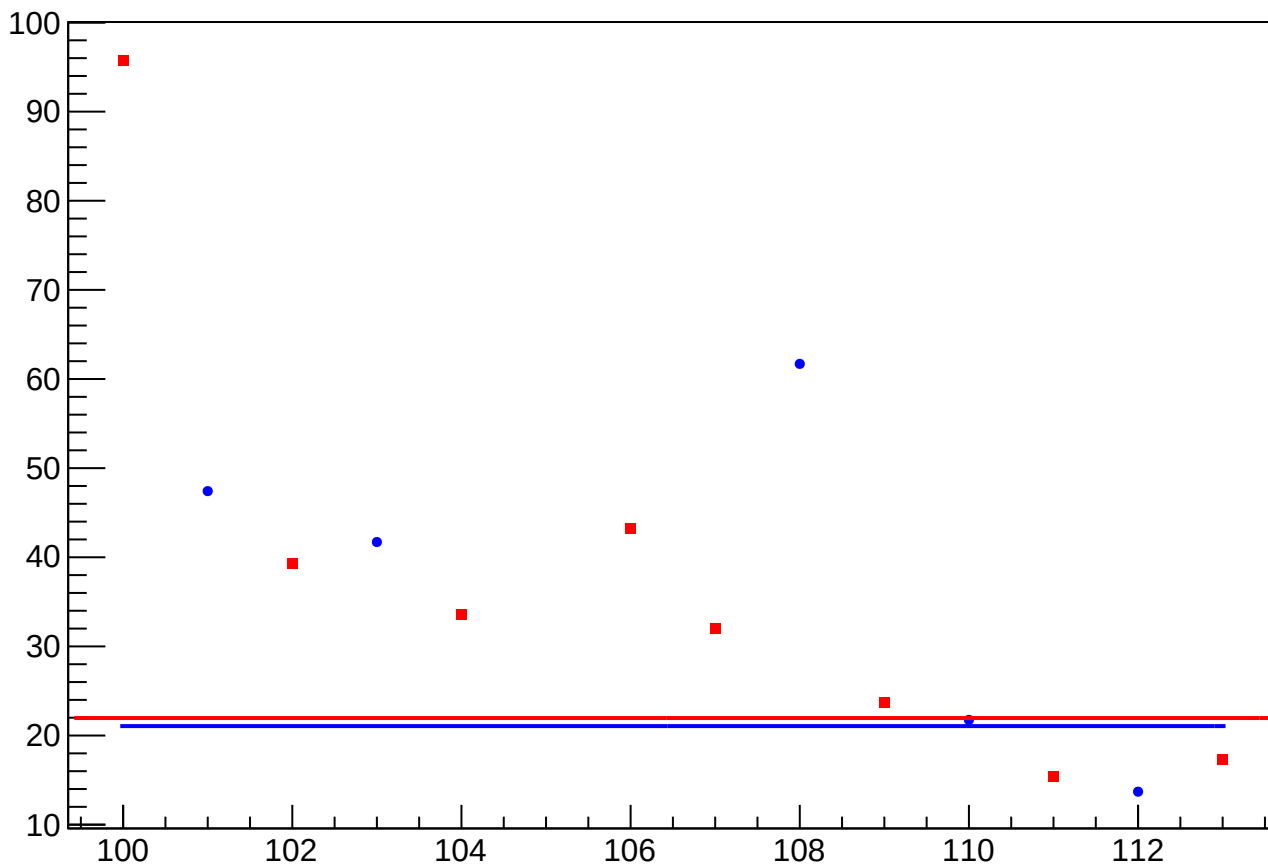
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.010  $\chi^2$ /NDF: 25.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 21.059 $\pm$ 0.011  $\chi^2$ /NDF: 1254641.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 21.964 $\pm$ 0.010  $\chi^2$ /NDF: 841394.3/7

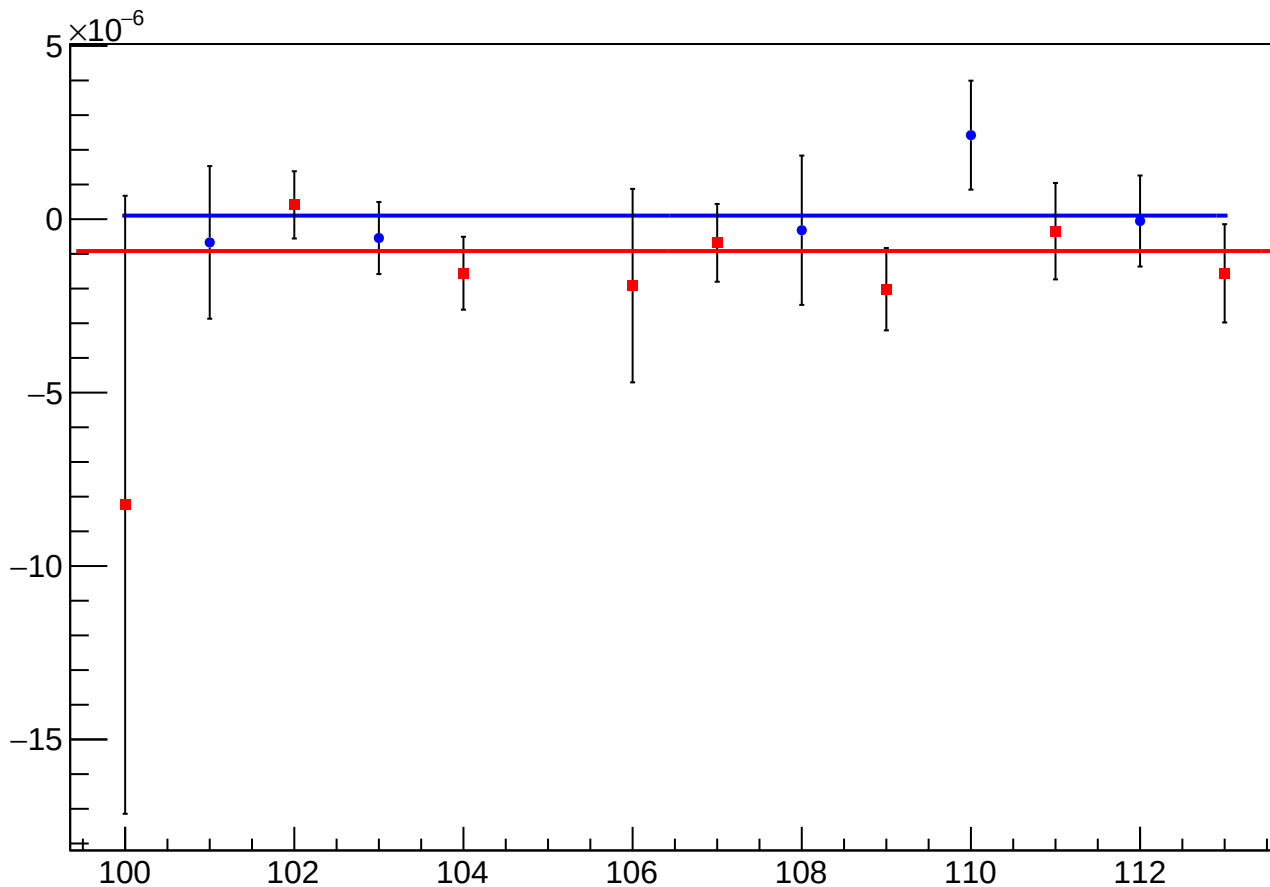
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.581 $\pm$ 0.007  $\chi^2$ /NDF: 2099803.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.3/7

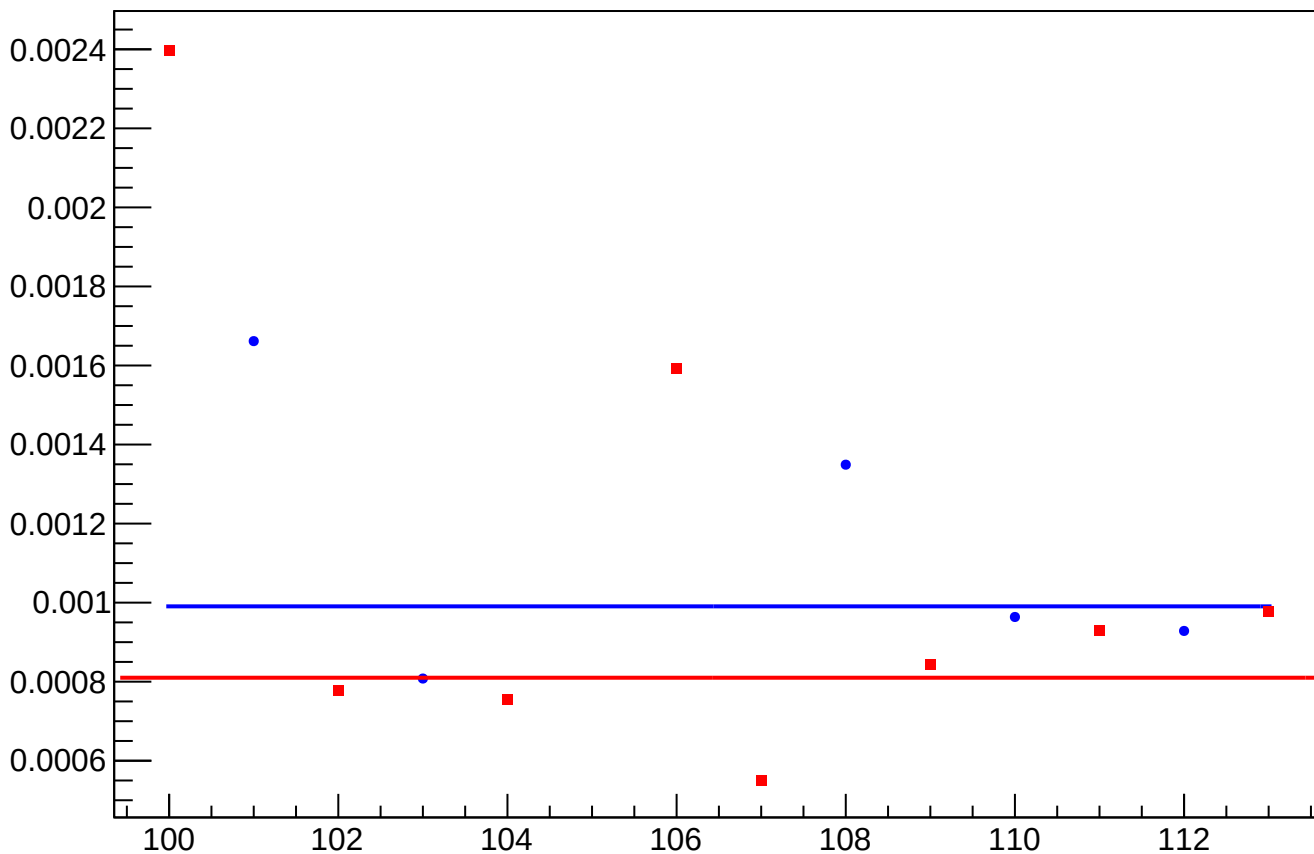
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 308249.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 379832.9/7

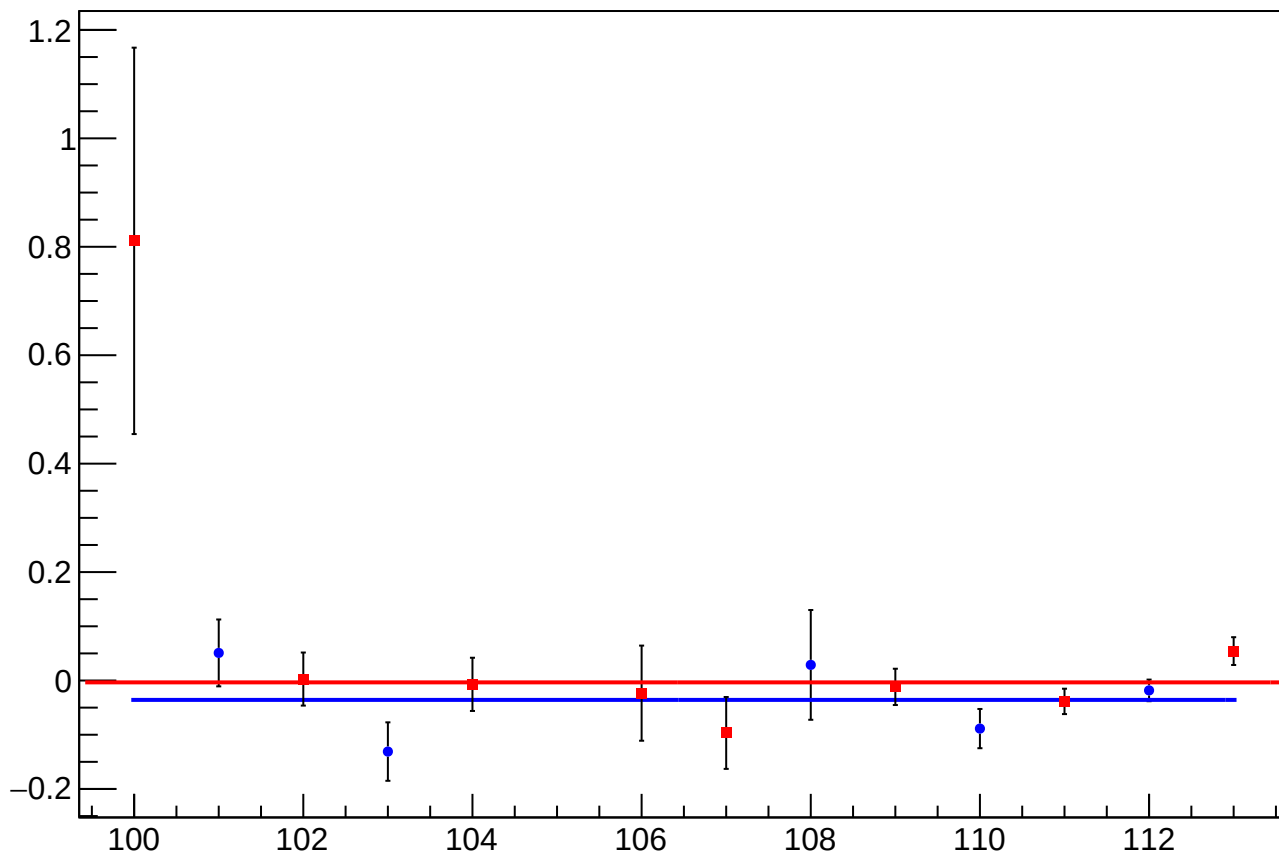
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 789234.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.036 $\pm$ 0.016  $\chi^2$ /NDF: 8.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 14.7/7

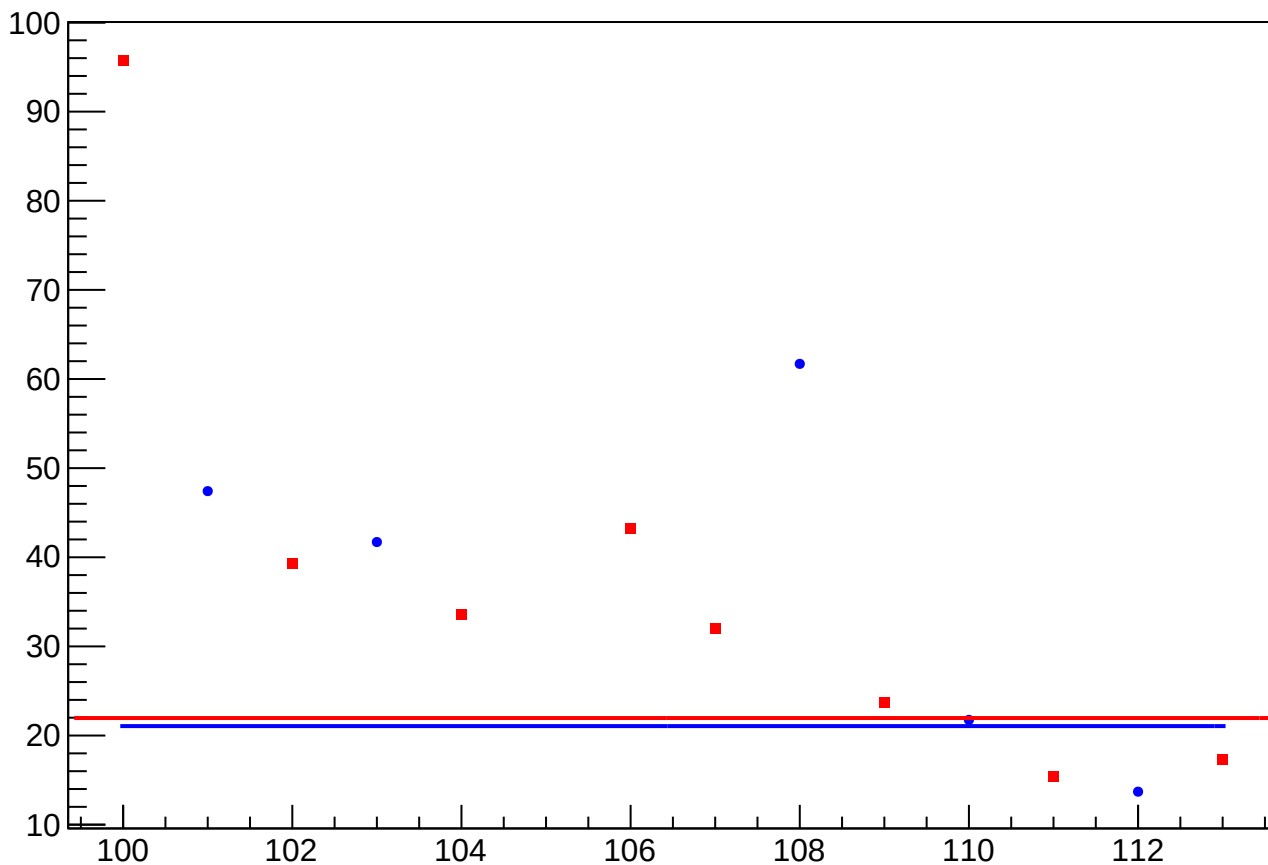
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.010  $\chi^2$ /NDF: 25.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 21.059+/-0.011  $\chi^2/\text{NDF}$ : 1254675.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.964+/-0.010  $\chi^2/\text{NDF}$ : 841442.5/7

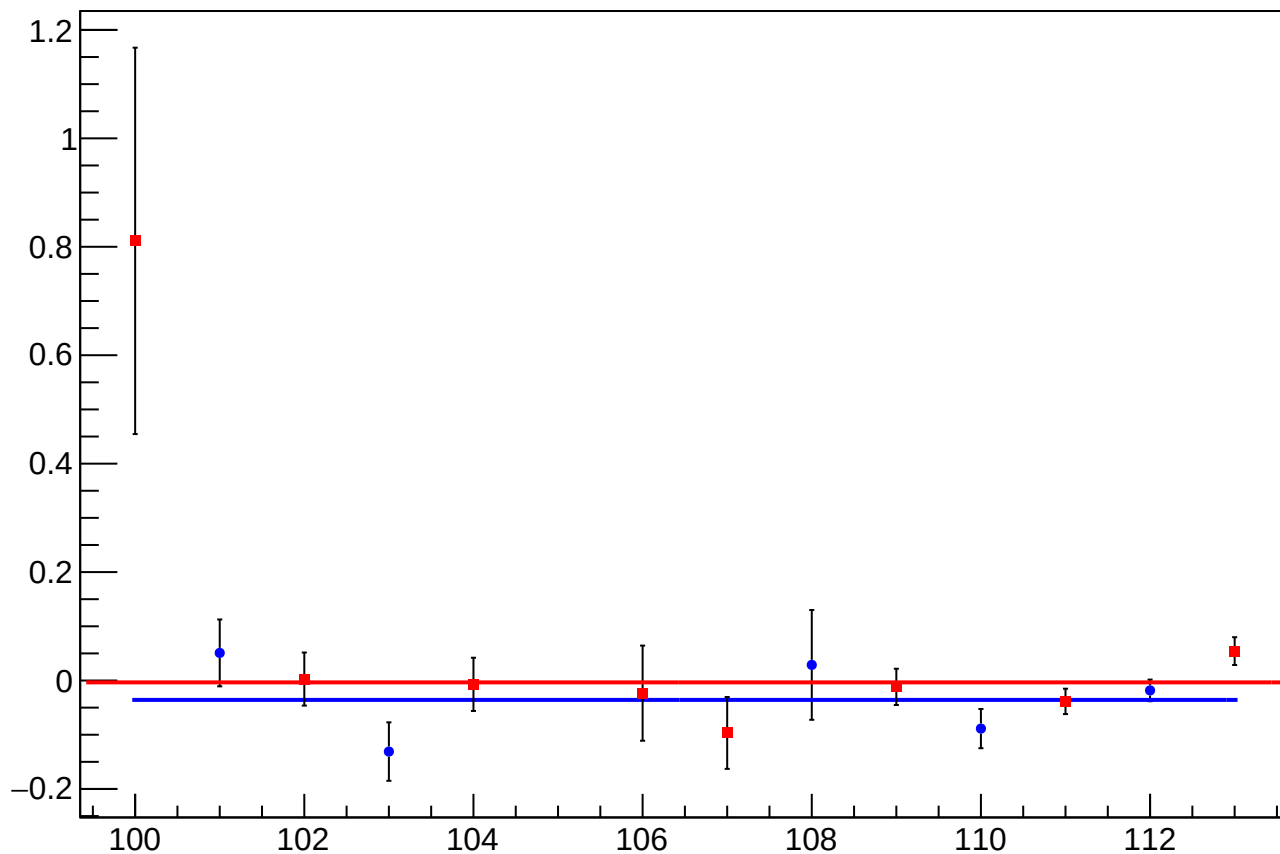
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.581+/-0.007  $\chi^2/\text{NDF}$ : 2099885.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.036 $\pm$ 0.016  $\chi^2$ /NDF: 8.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 14.7/7

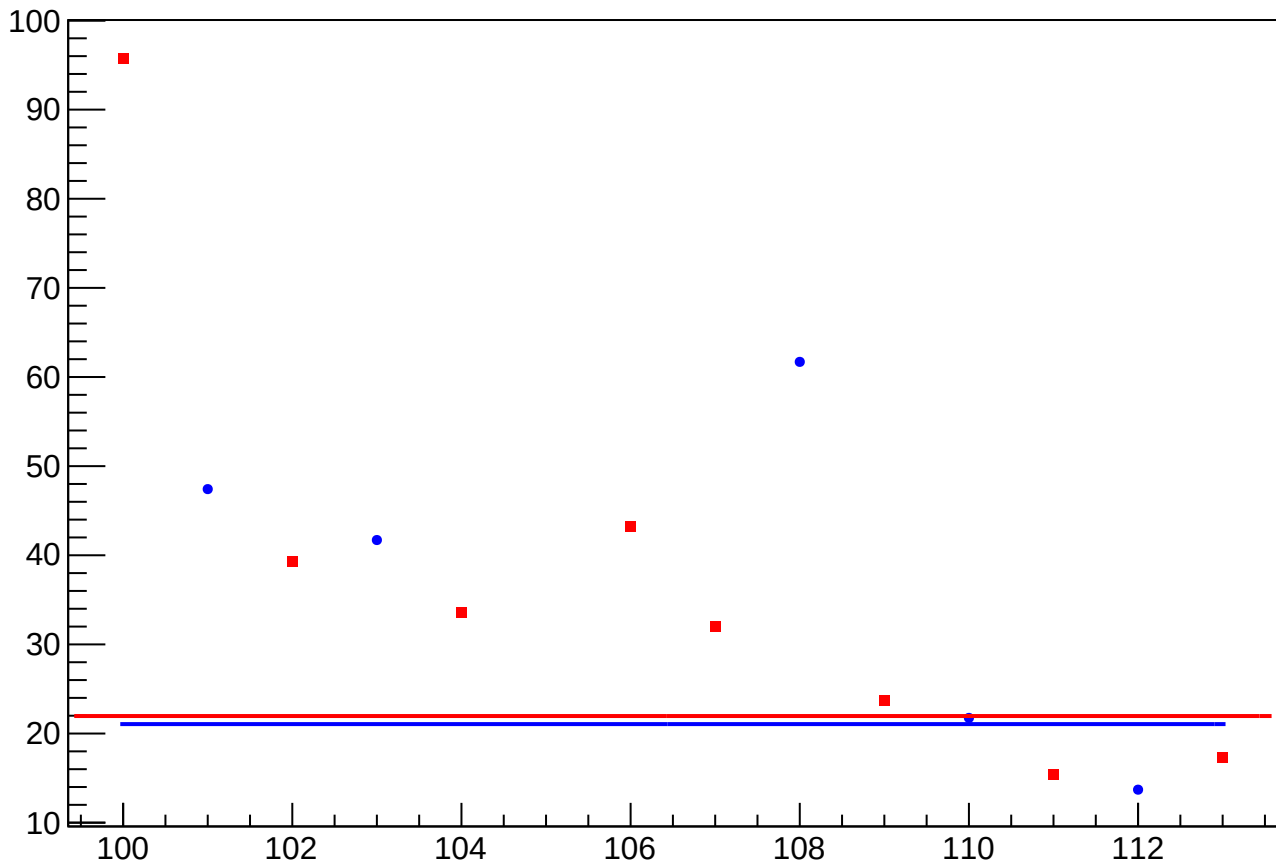
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.010  $\chi^2$ /NDF: 25.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 21.059+/-0.011  $\chi^2/\text{NDF}$ : 1254675.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.964+/-0.010  $\chi^2/\text{NDF}$ : 841442.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

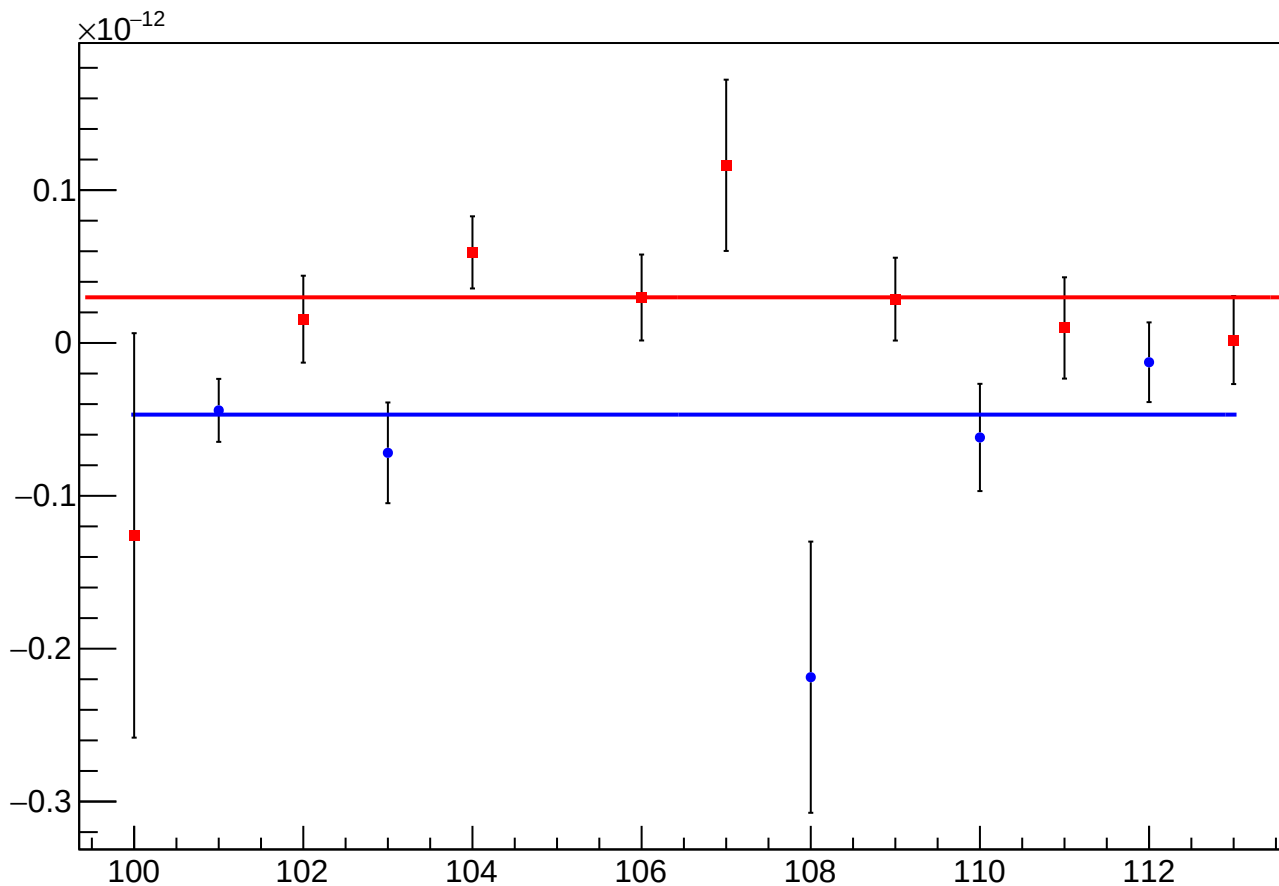
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.581+/-0.007  $\chi^2/\text{NDF}$ : 2099885.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.9/7

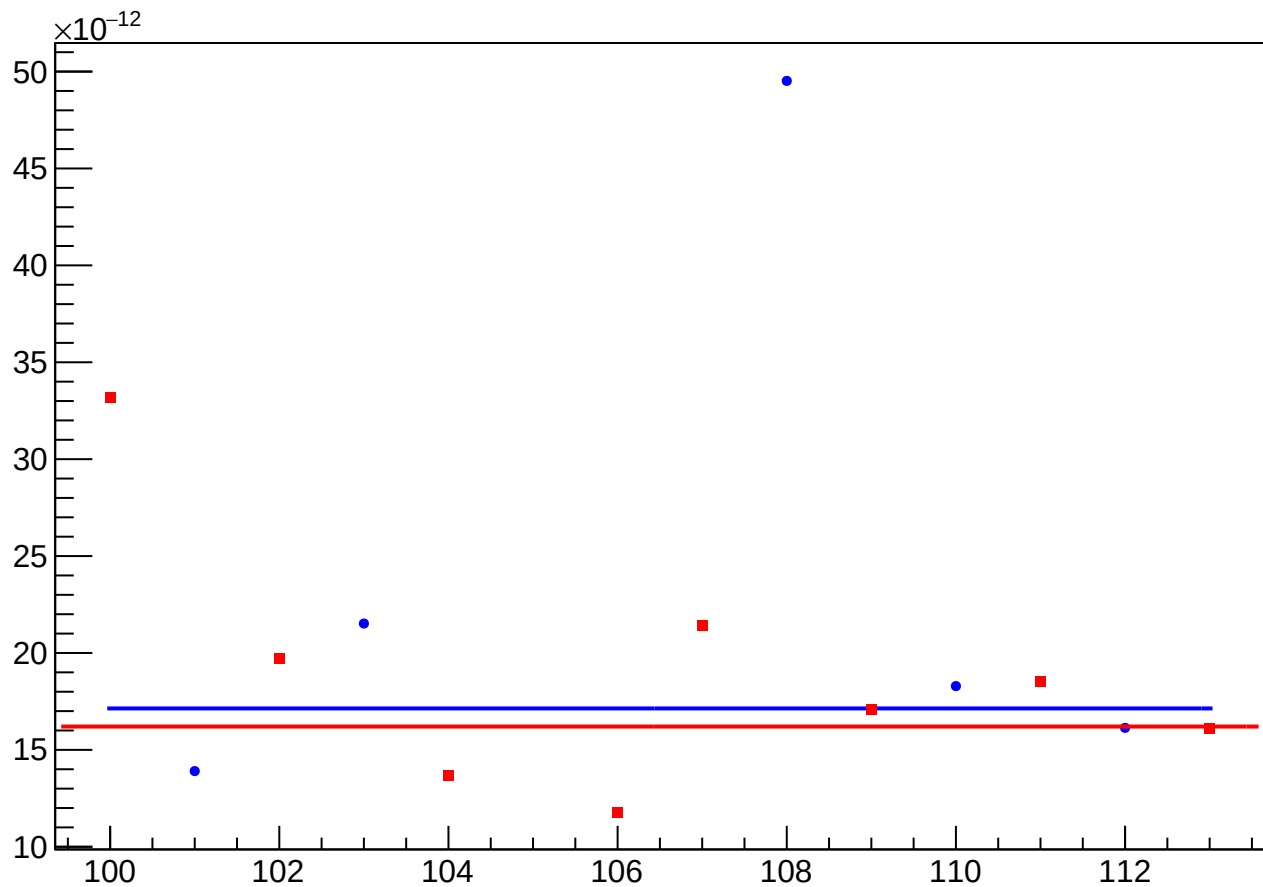
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 32.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 356222.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 164791.9/7

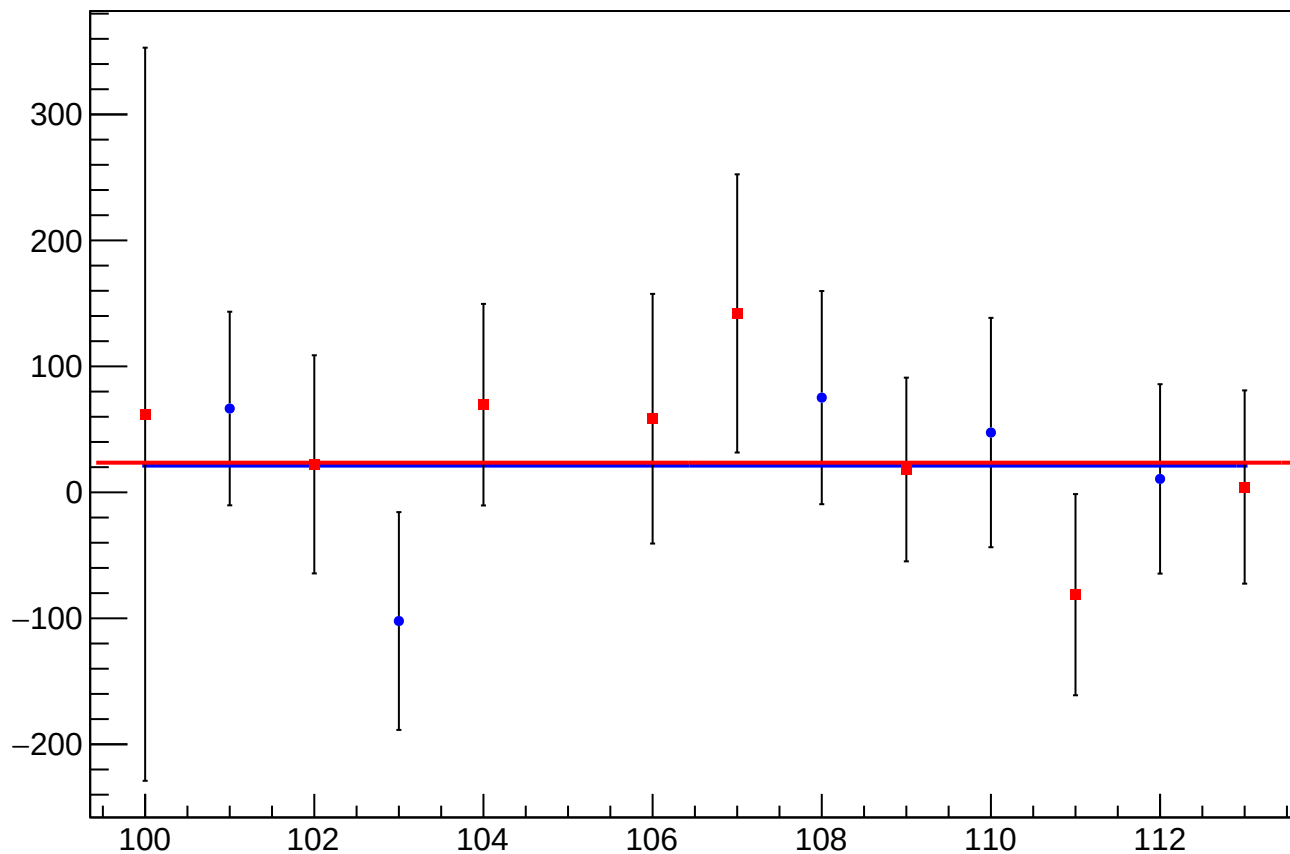
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 526859.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 21.235+/-36.750  $\chi^2/\text{NDF}$ : 2.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23.562+/-31.621  $\chi^2/\text{NDF}$ : 3.4/7

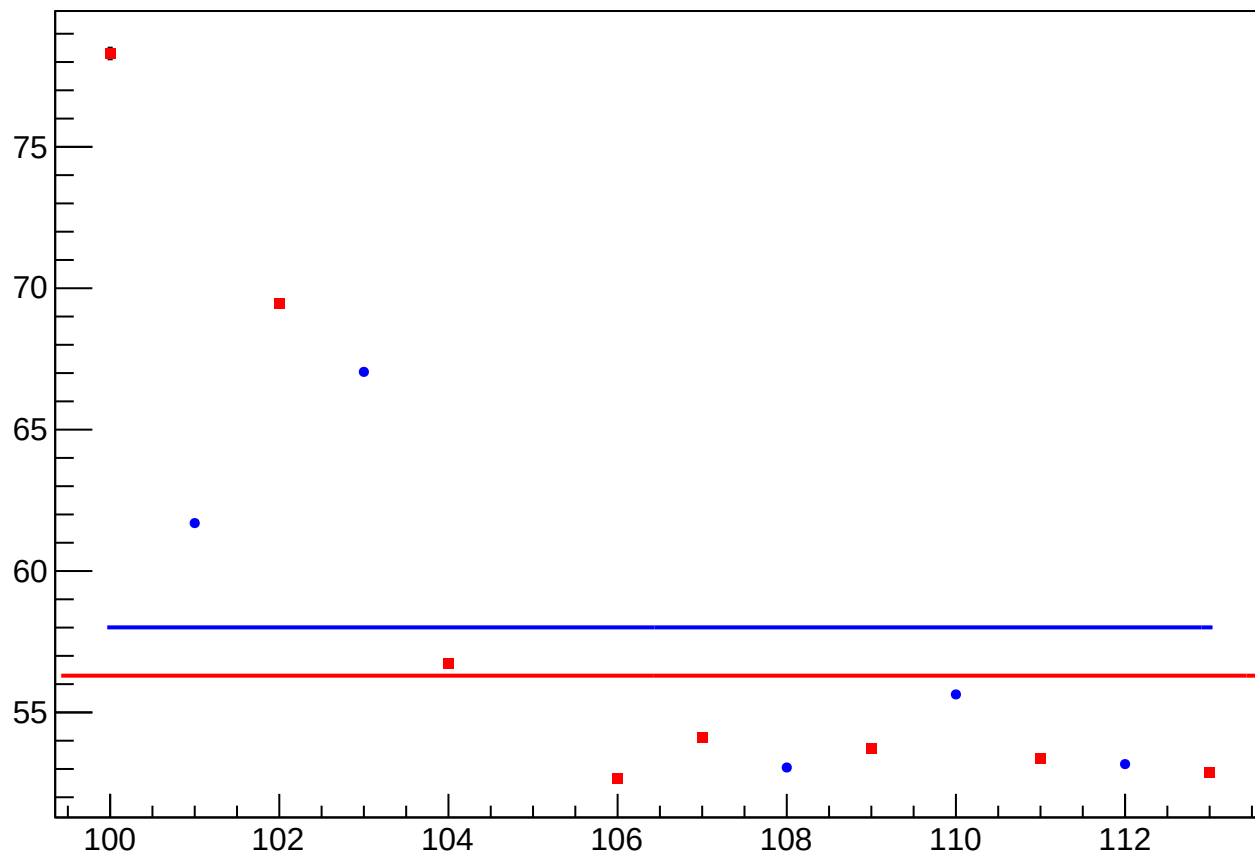
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.572+/-23.970  $\chi^2/\text{NDF}$ : 6.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 58.007+/-0.026  $\chi^2/\text{NDF}$ : 42941.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 56.299+/-0.022  $\chi^2/\text{NDF}$ : 70271.5/7

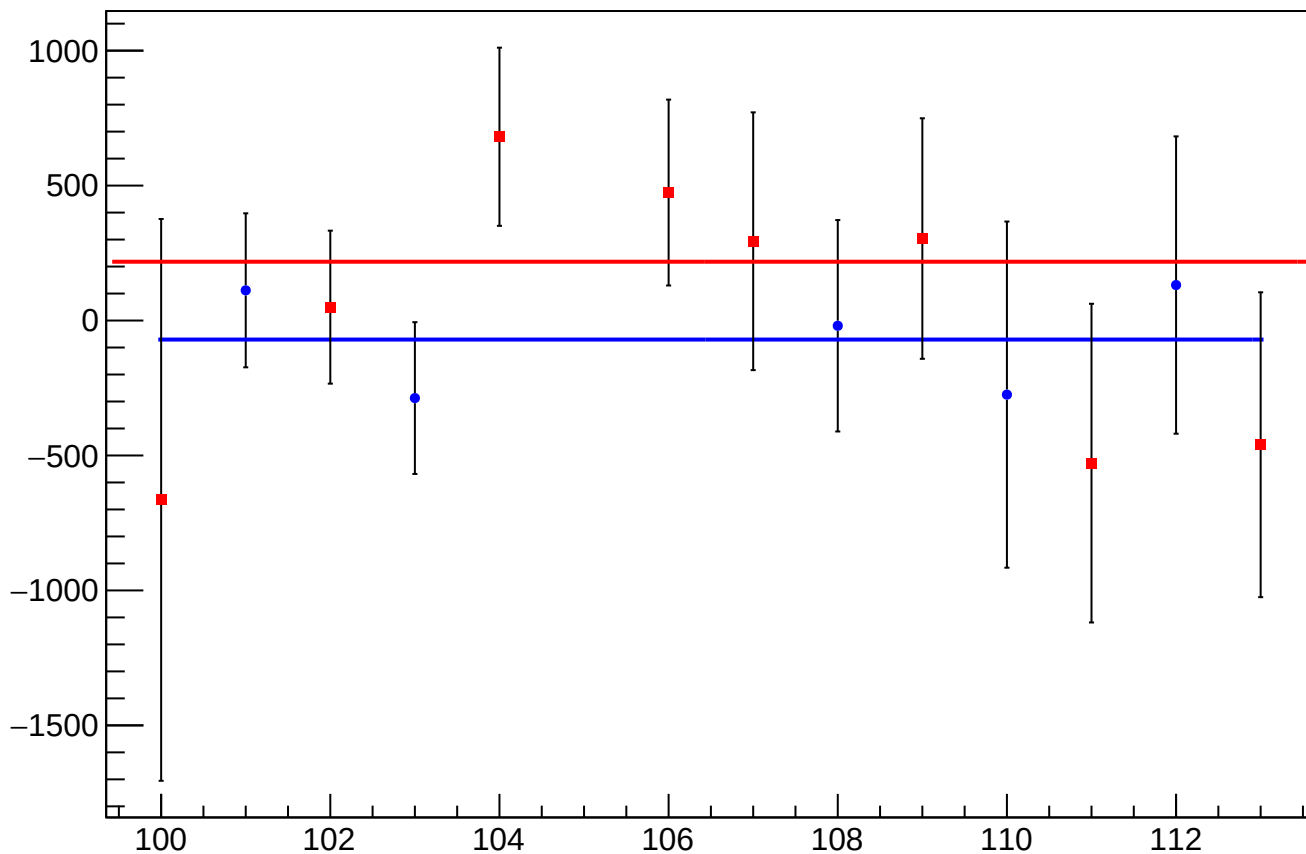
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 57.026+/-0.017  $\chi^2/\text{NDF}$ : 115695.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_reg\_correction\_mean vs Slug



Right In: -70.461+/-163.999  $\chi^2/\text{NDF}$ : 1.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 217.912+/-146.790  $\chi^2/\text{NDF}$ : 6.7/7

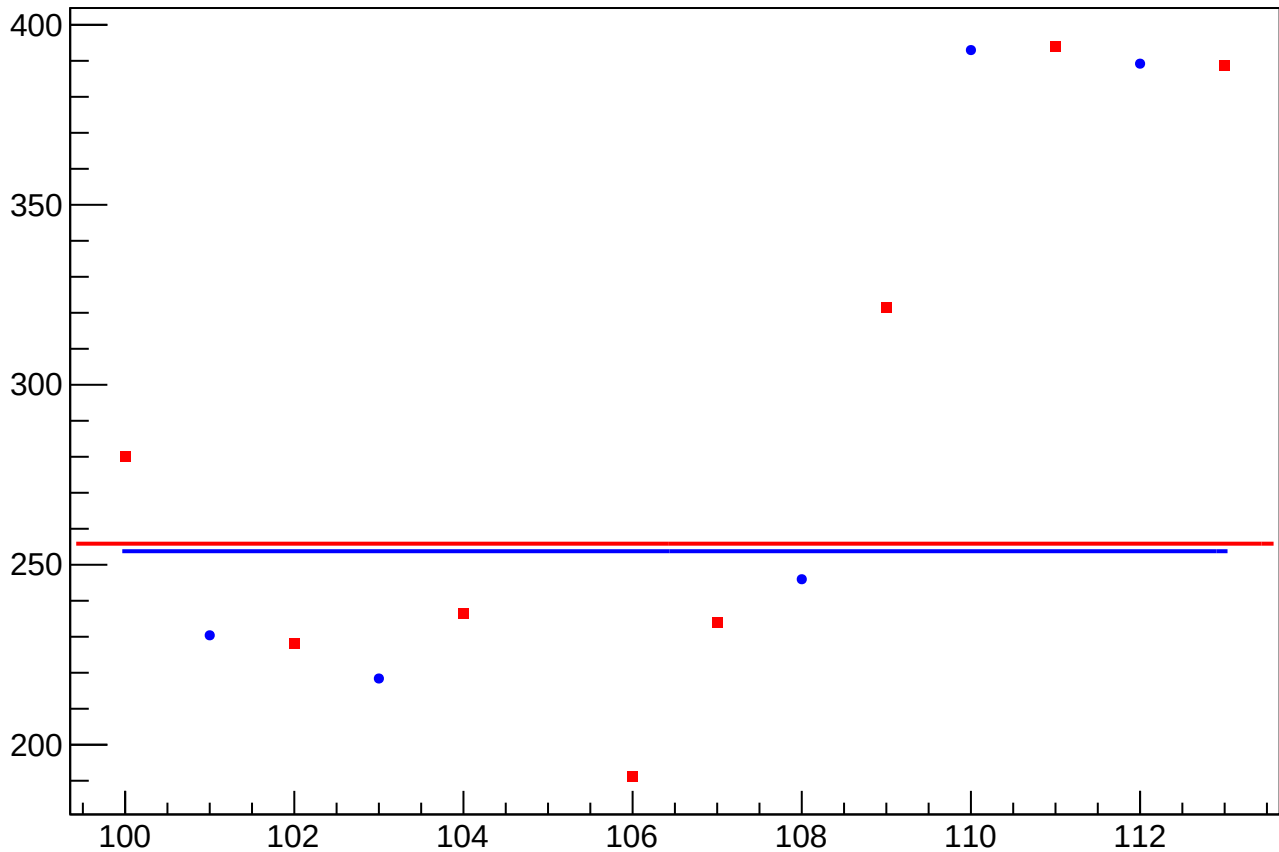
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 89.644+/-109.376  $\chi^2/\text{NDF}$ : 9.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_reg\_correction\_rms vs Slug



Right In: 253.763+/-0.116  $\chi^2/\text{NDF}$ : 261041.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 255.856+/-0.104  $\chi^2/\text{NDF}$ : 366143.2/7

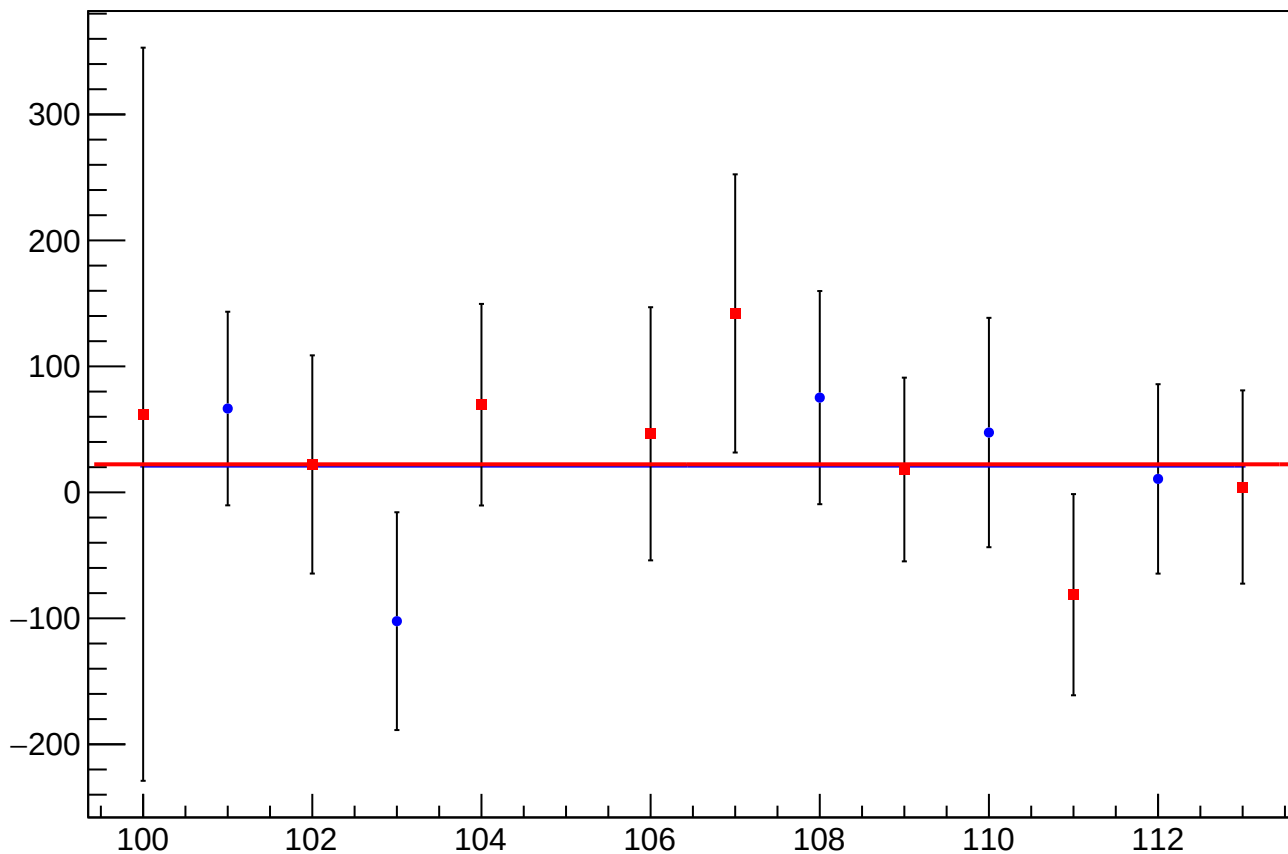
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 254.925+/-0.077  $\chi^2/\text{NDF}$ : 627365.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 21.221 $\pm$ 36.750  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.263 $\pm$ 31.666  $\chi^2$ /NDF: 3.3/7

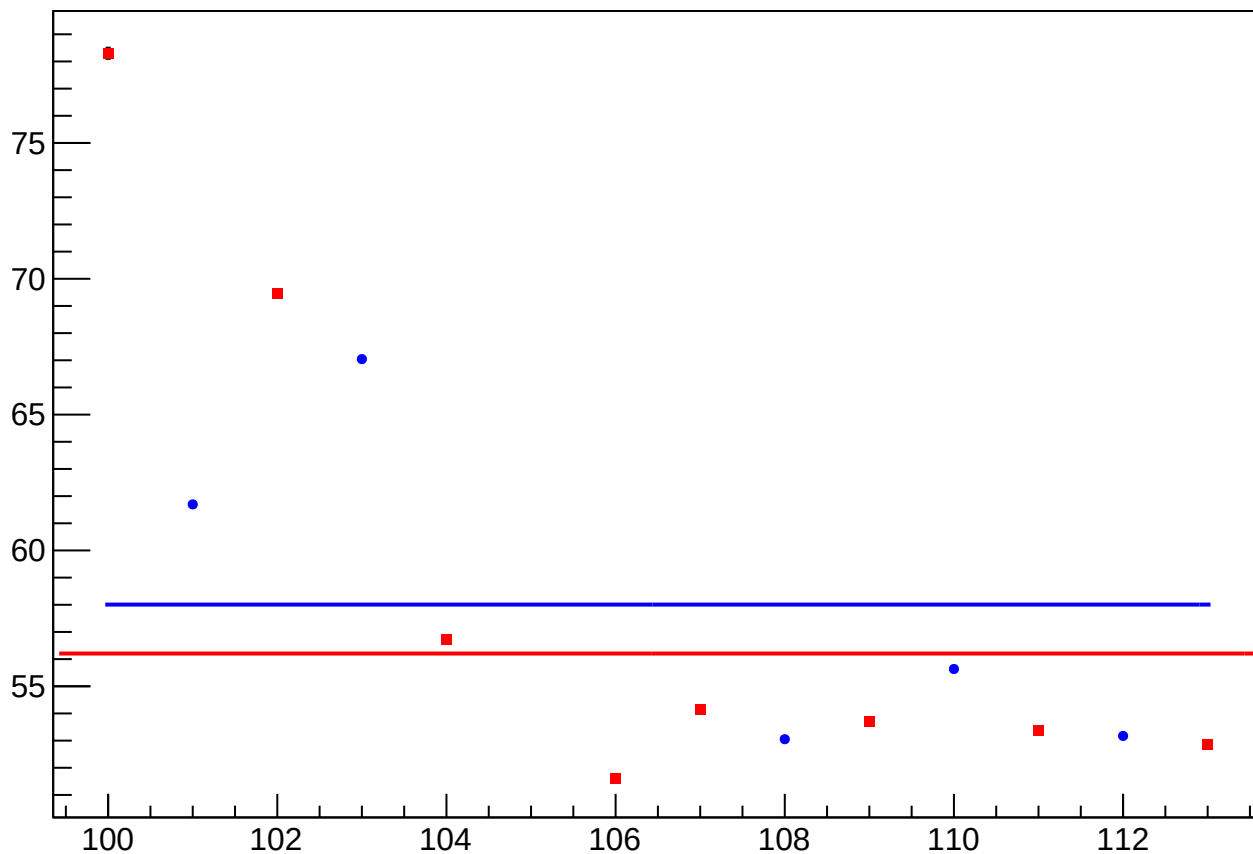
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.819 $\pm$ 23.989  $\chi^2$ /NDF: 6.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 58.007 $\pm$ 0.026  $\chi^2$ /NDF: 42942.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 56.206 $\pm$ 0.022  $\chi^2$ /NDF: 72039.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

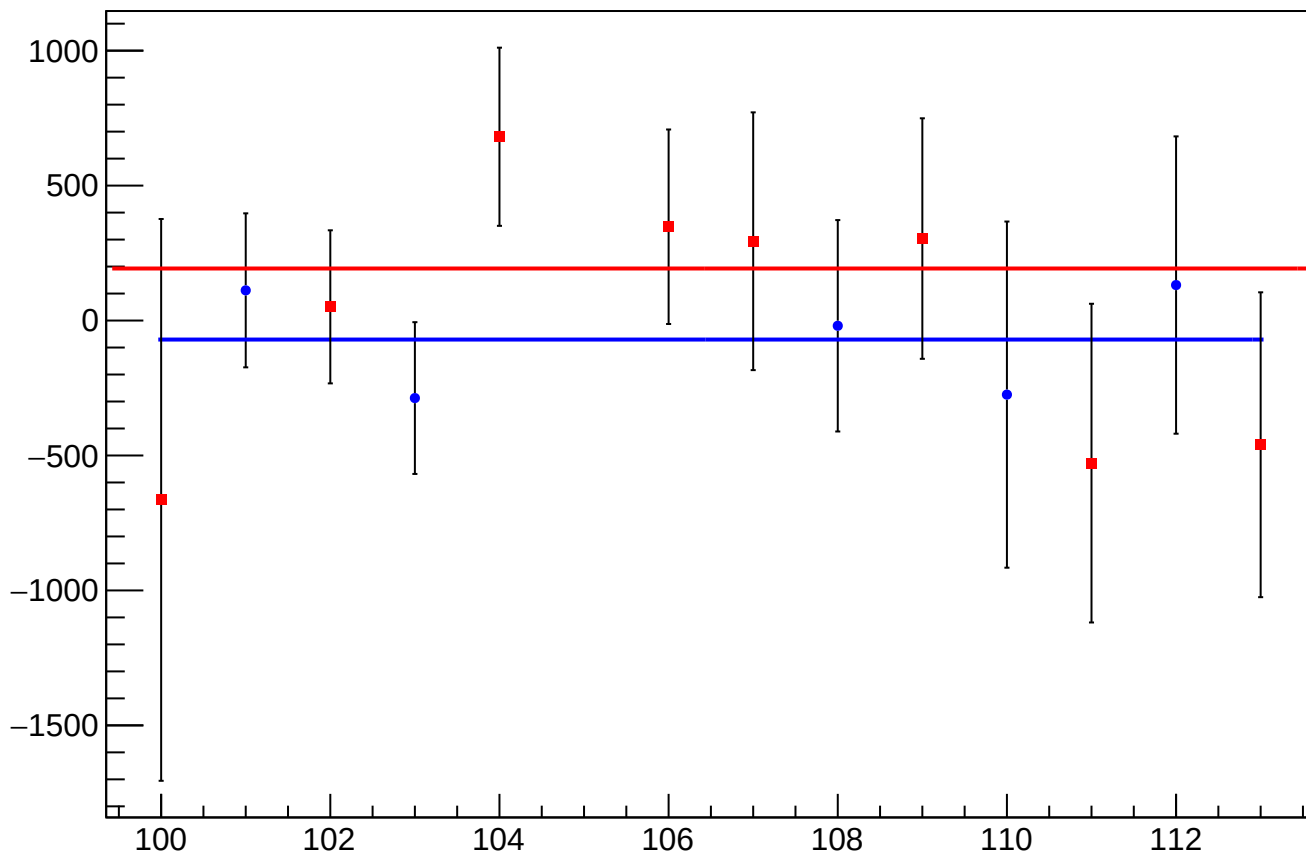
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.973 $\pm$ 0.017  $\chi^2$ /NDF: 117739.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_48\_dd\_cor\_correction\_mean vs Slug



Right In: -70.434 $\pm$ 164.001  $\chi^2$ /NDF: 1.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 192.826 $\pm$ 147.991  $\chi^2$ /NDF: 6.2/7

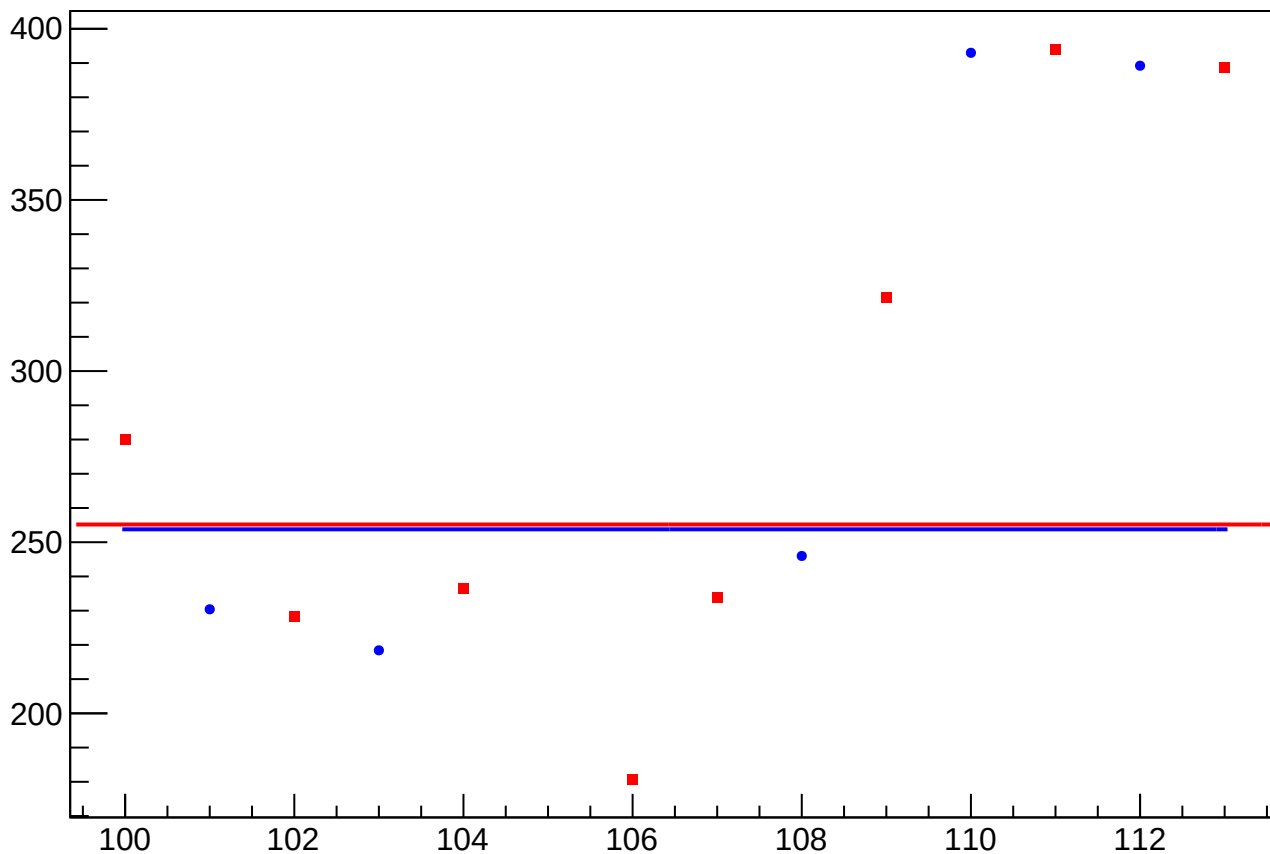
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 74.670 $\pm$ 109.871  $\chi^2$ /NDF: 8.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_cor\_correction\_rms vs Slug



Right In: 253.767 $\pm$ 0.116  $\chi^2$ /NDF: 261027.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 255.178 $\pm$ 0.105  $\chi^2$ /NDF: 382384.7/7

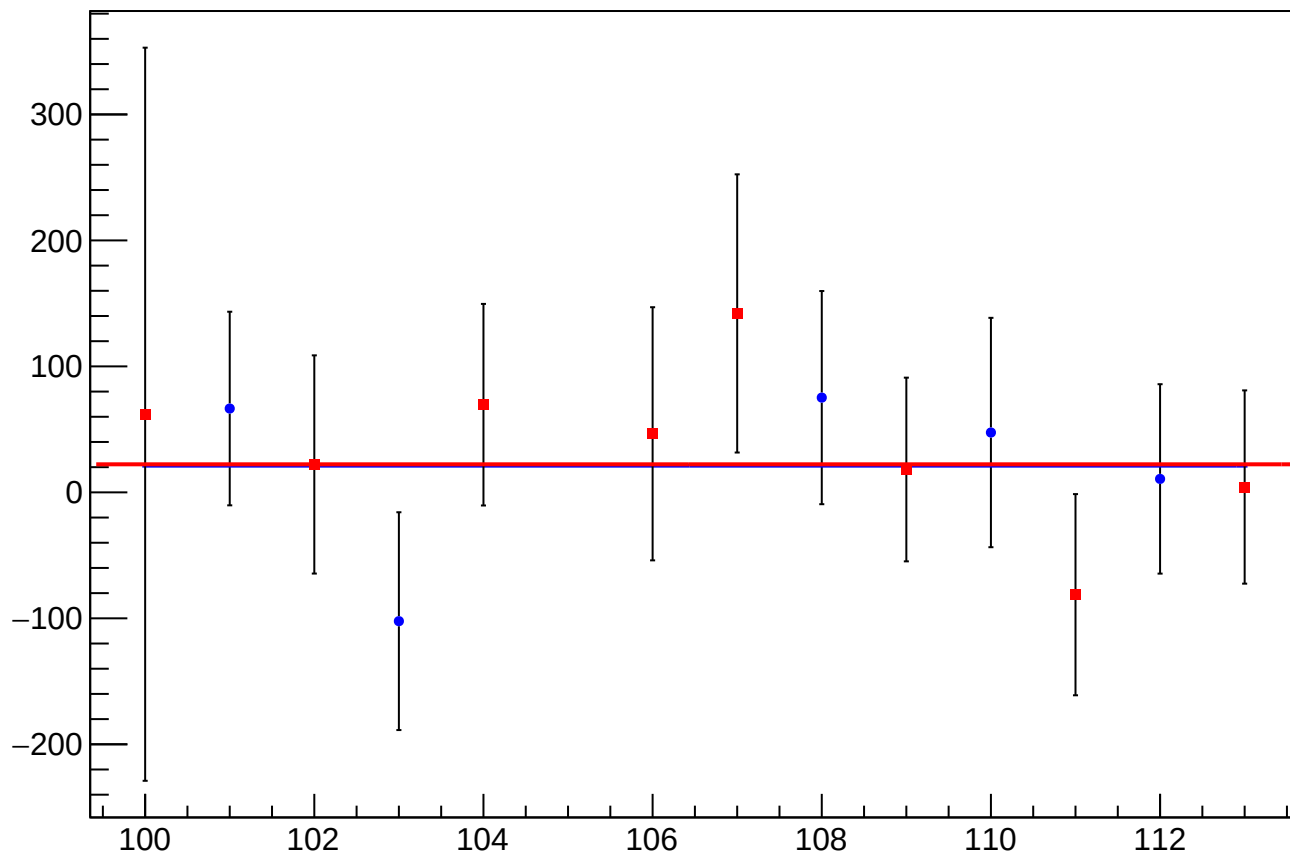
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 254.544 $\pm$ 0.078  $\chi^2$ /NDF: 643494.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 21.221+/-36.750  $\chi^2/\text{NDF}$ : 2.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.263+/-31.666  $\chi^2/\text{NDF}$ : 3.3/7

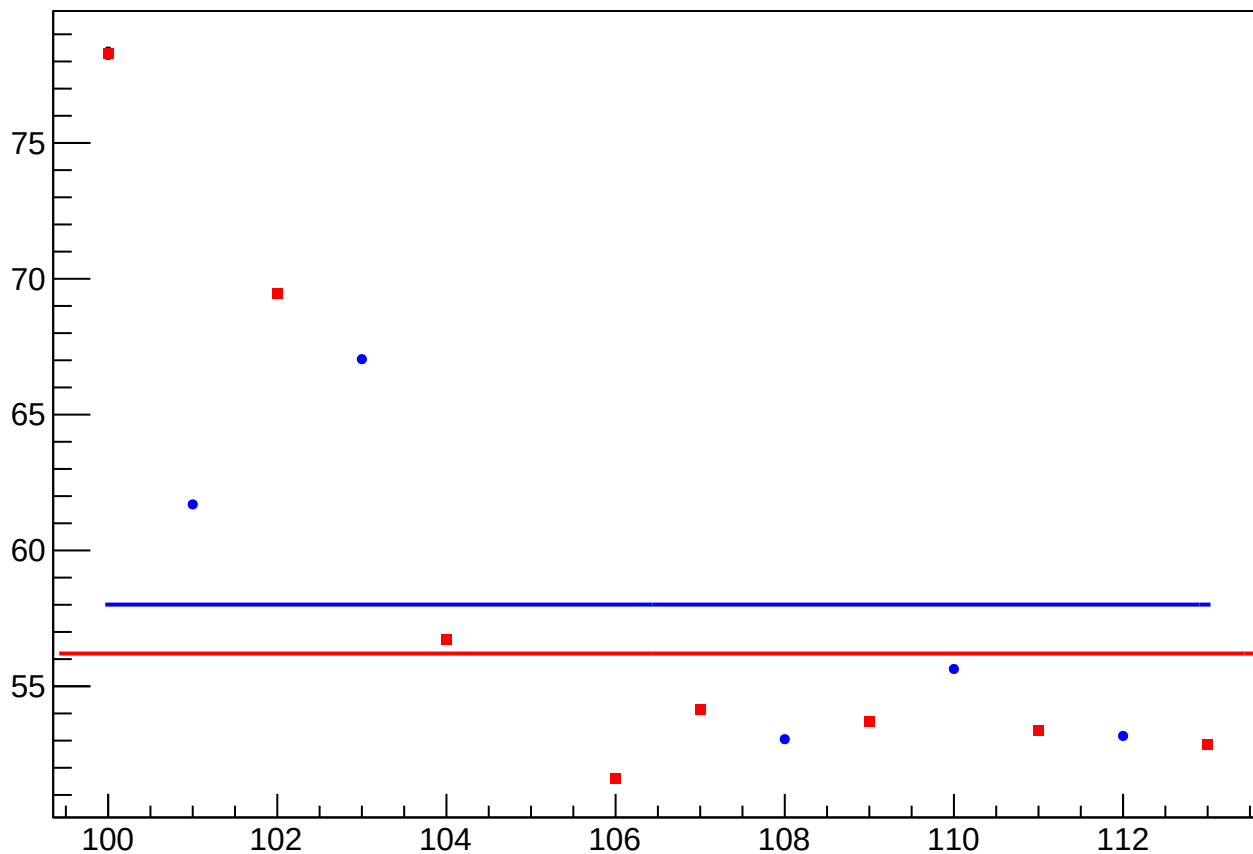
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.819+/-23.989  $\chi^2/\text{NDF}$ : 6.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 58.007 $\pm$ 0.026  $\chi^2$ /NDF: 42942.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 56.206 $\pm$ 0.022  $\chi^2$ /NDF: 72039.1/7

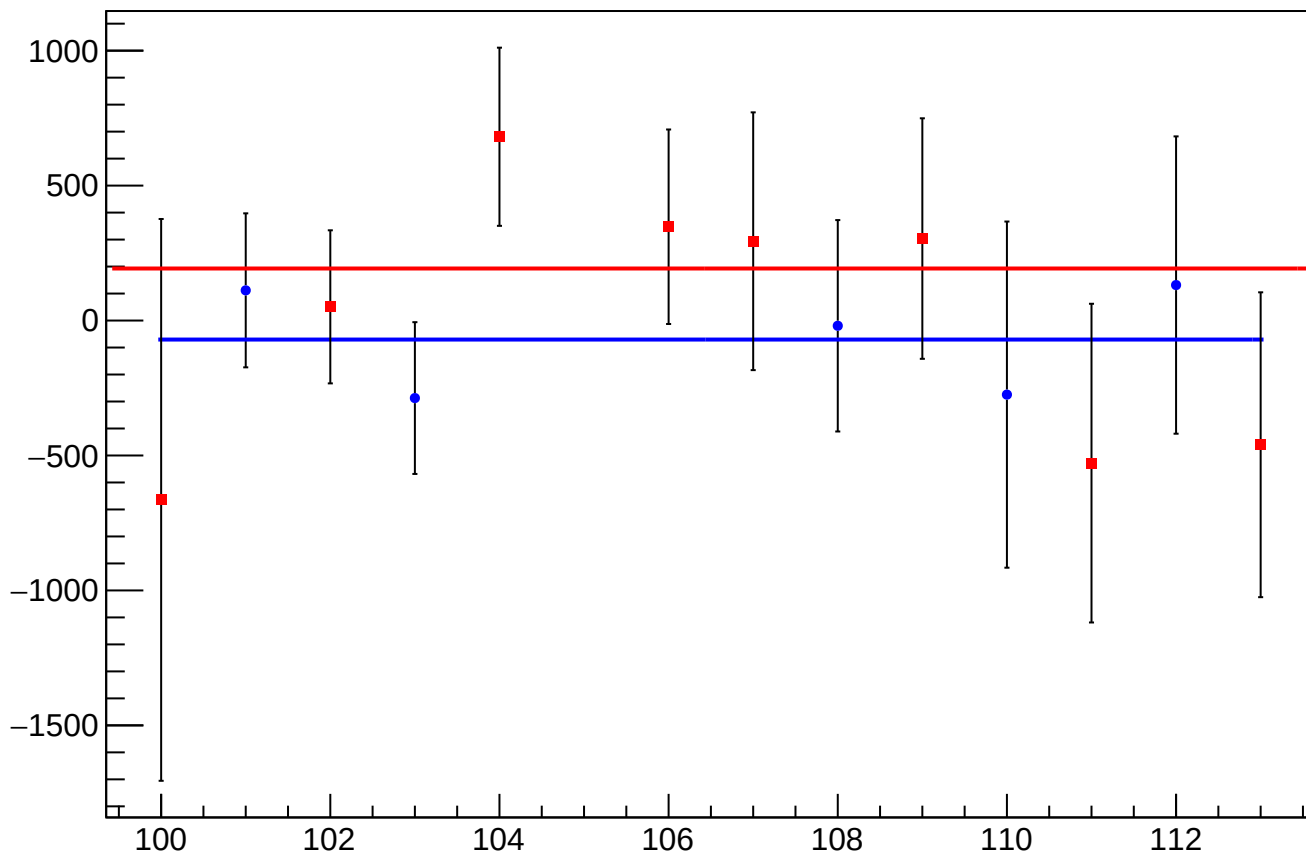
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.973 $\pm$ 0.017  $\chi^2$ /NDF: 117739.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -70.434+/-164.001  $\chi^2/\text{NDF}$ : 1.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 192.826+/-147.991  $\chi^2/\text{NDF}$ : 6.2/7

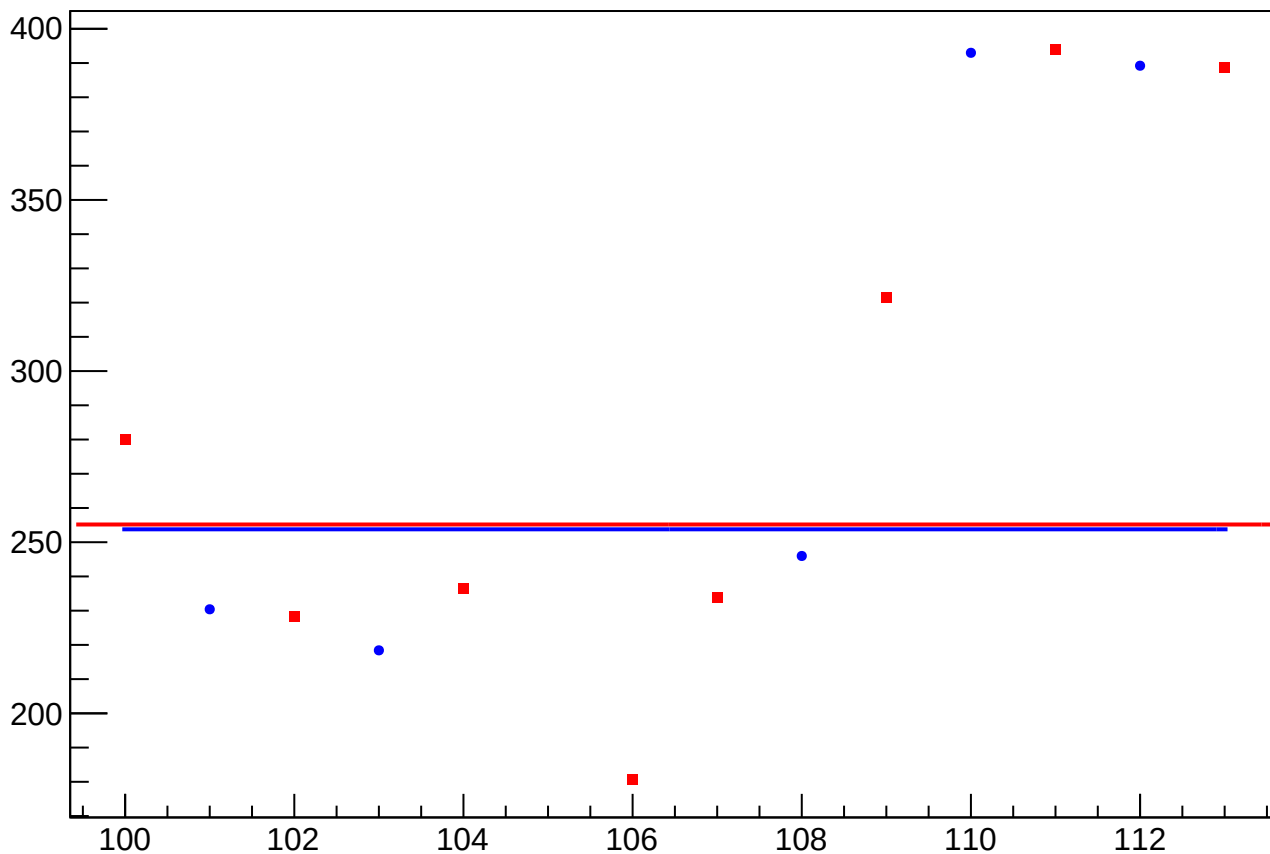
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.670+/-109.871  $\chi^2/\text{NDF}$ : 8.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 253.767 $\pm$ 0.116  $\chi^2$ /NDF: 261027.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 255.178 $\pm$ 0.105  $\chi^2$ /NDF: 382384.7/7

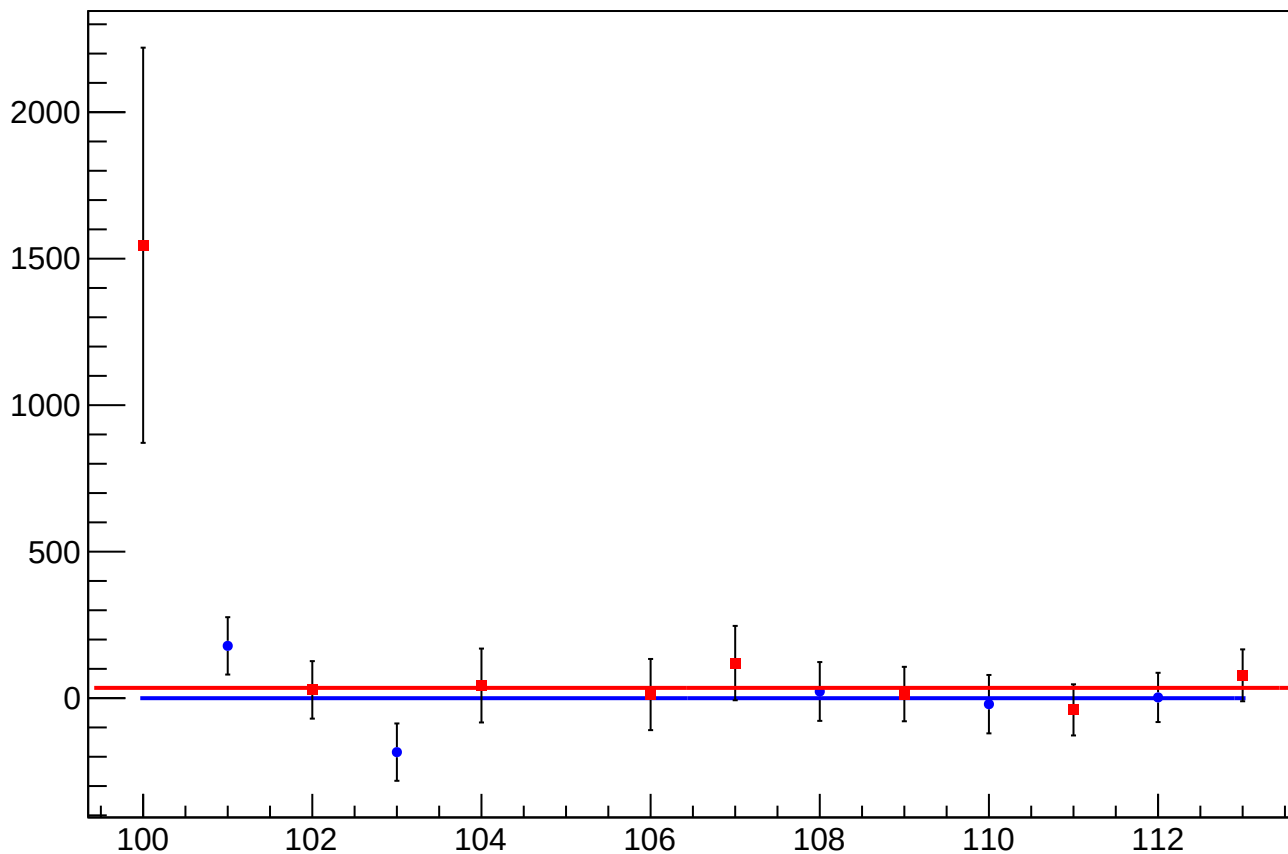
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 254.544 $\pm$ 0.078  $\chi^2$ /NDF: 643494.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In:  $-0.144 \pm 42.630$   $\chi^2/\text{NDF}: 7.0/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $35.057 \pm 38.533$   $\chi^2/\text{NDF}: 6.5/7$

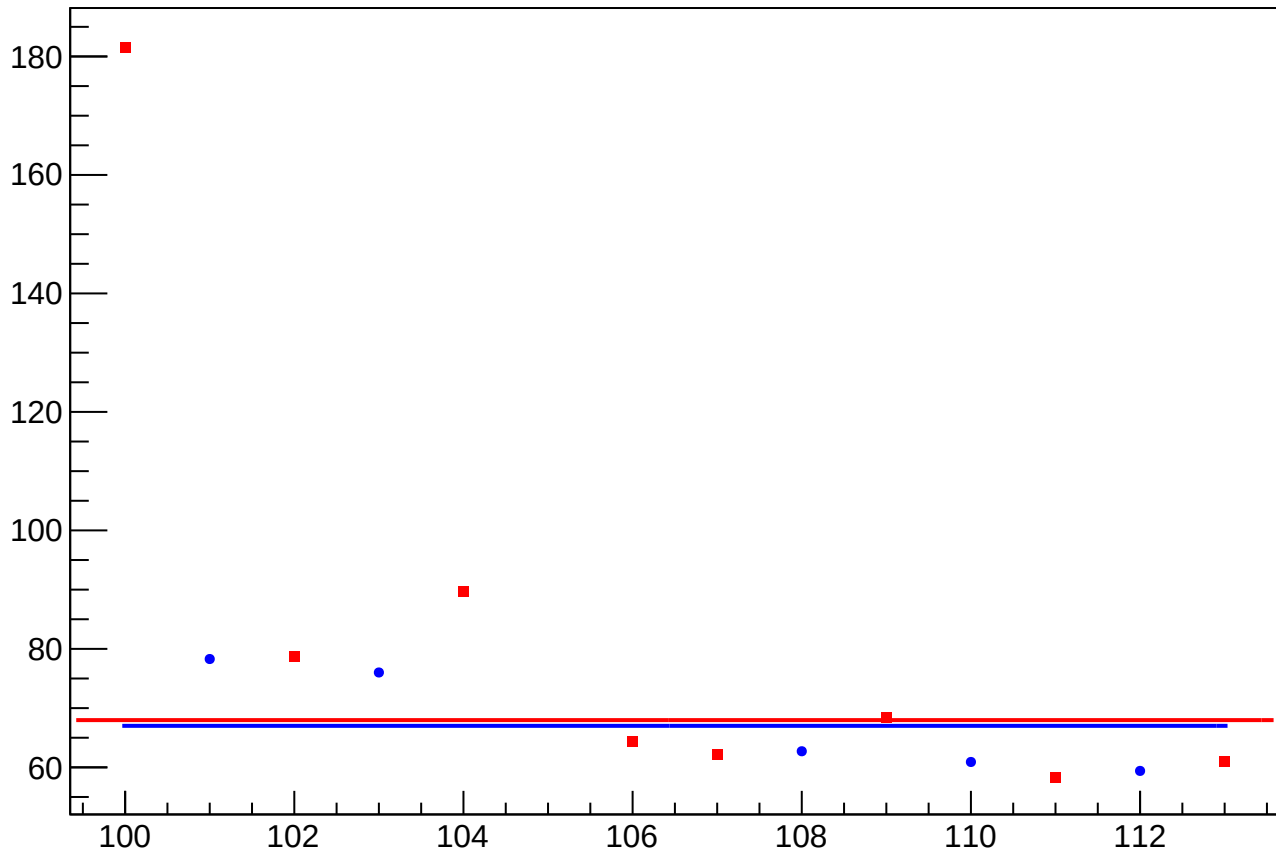
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $19.229 \pm 28.586$   $\chi^2/\text{NDF}: 13.9/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# dit\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 67.010 $\pm$ 0.030  $\chi^2$ /NDF: 71012.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 67.975 $\pm$ 0.027  $\chi^2$ /NDF: 182783.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

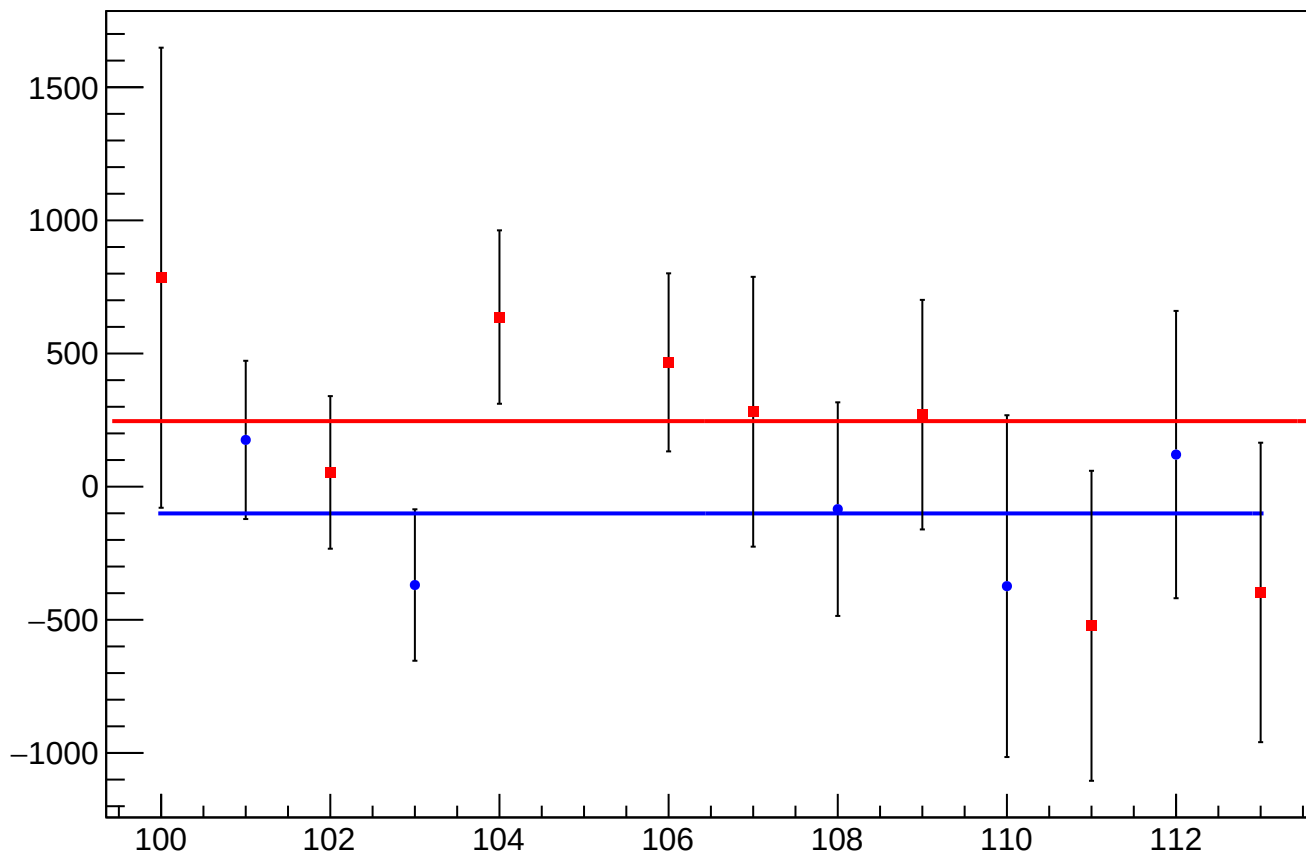
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 67.541 $\pm$ 0.020  $\chi^2$ /NDF: 254360.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_48\_dd\_dit\_correction\_mean vs Slug



Right In: -100.499+/-167.190  $\chi^2/\text{NDF}$ : 2.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 246.116+/-145.417  $\chi^2/\text{NDF}$ : 5.8/7

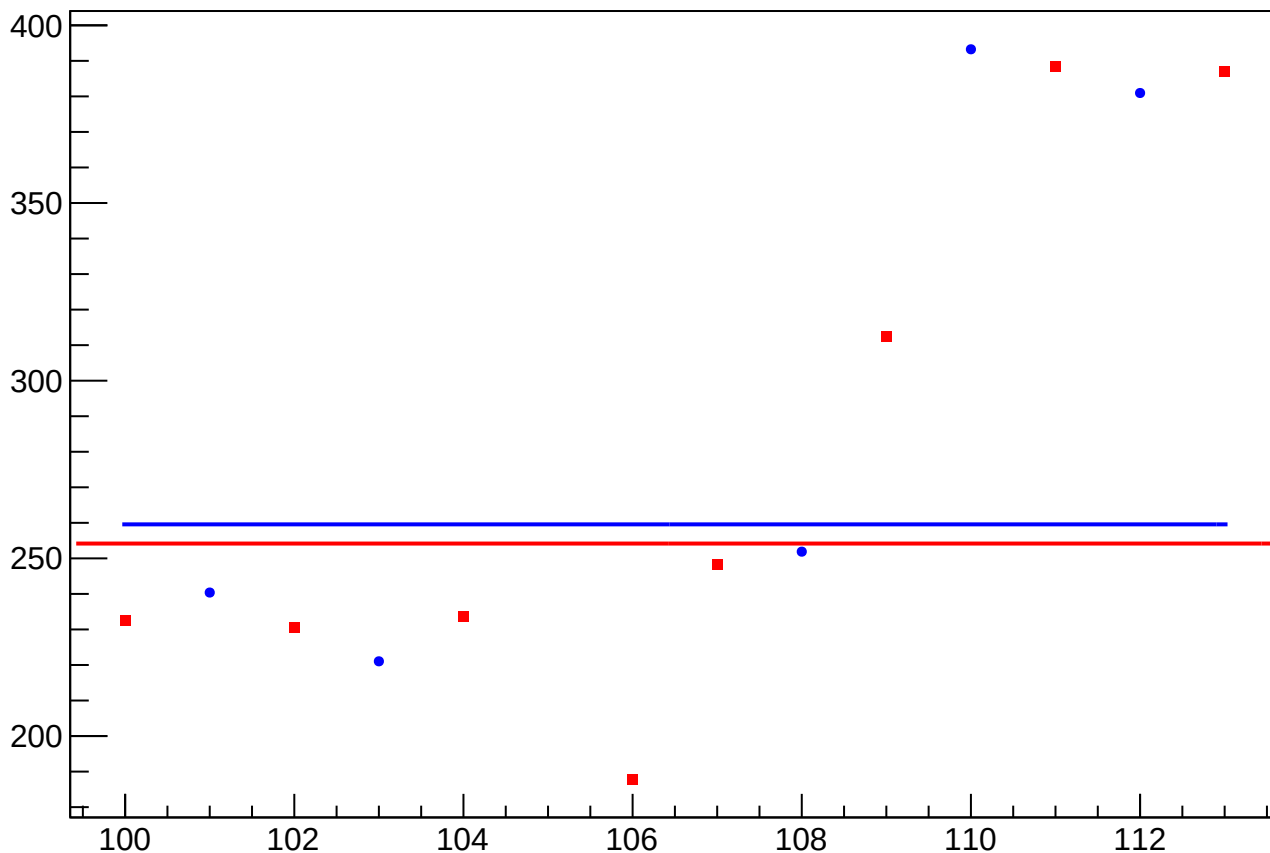
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 96.834+/-109.721  $\chi^2/\text{NDF}$ : 10.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_48\_dd\_dit\_correction\_rms vs Slug



Right In: 259.572 $\pm$ 0.118  $\chi^2$ /NDF: 233847.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 254.171 $\pm$ 0.103  $\chi^2$ /NDF: 356879.9/7

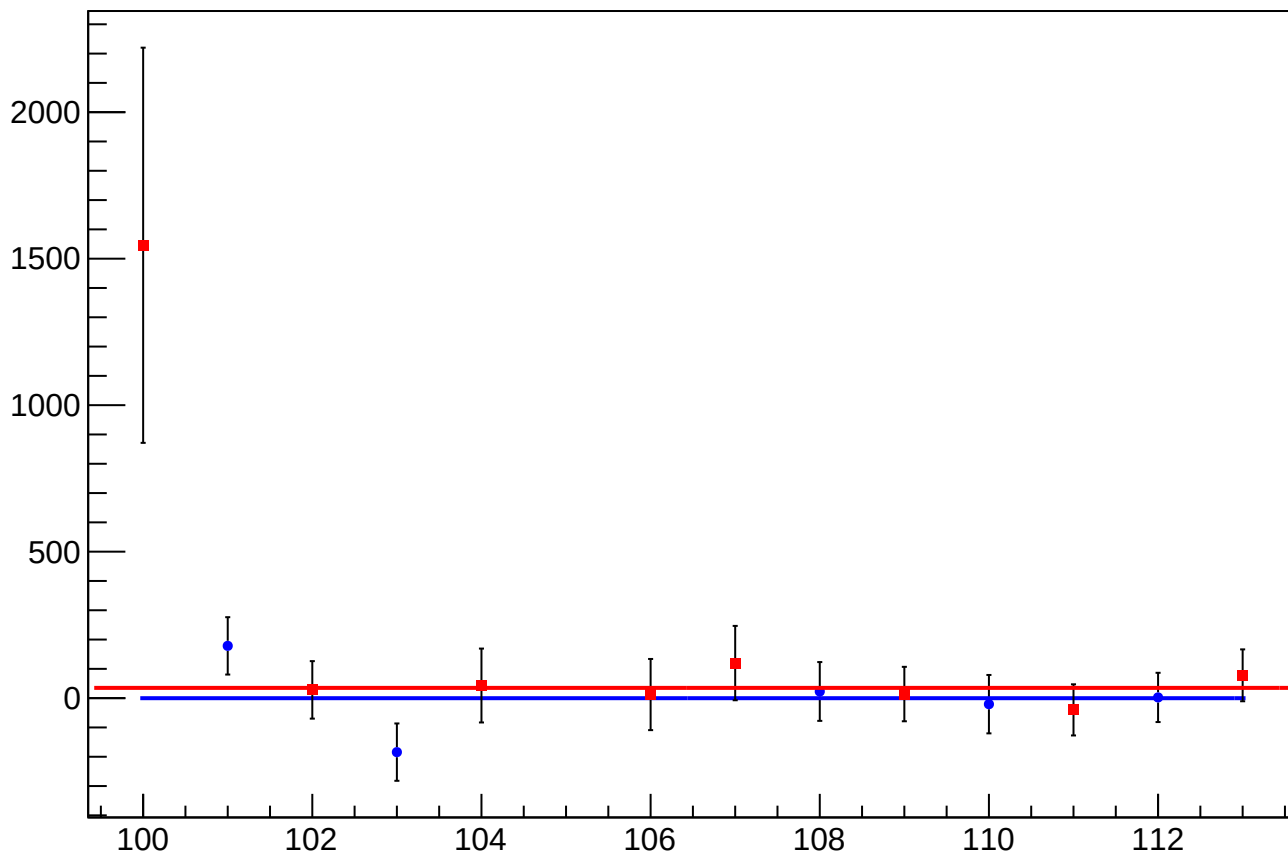
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 256.497 $\pm$ 0.078  $\chi^2$ /NDF: 591915.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In:  $-0.143 \pm 42.630$   $\chi^2/\text{NDF}: 7.0/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $35.057 \pm 38.533$   $\chi^2/\text{NDF}: 6.5/7$

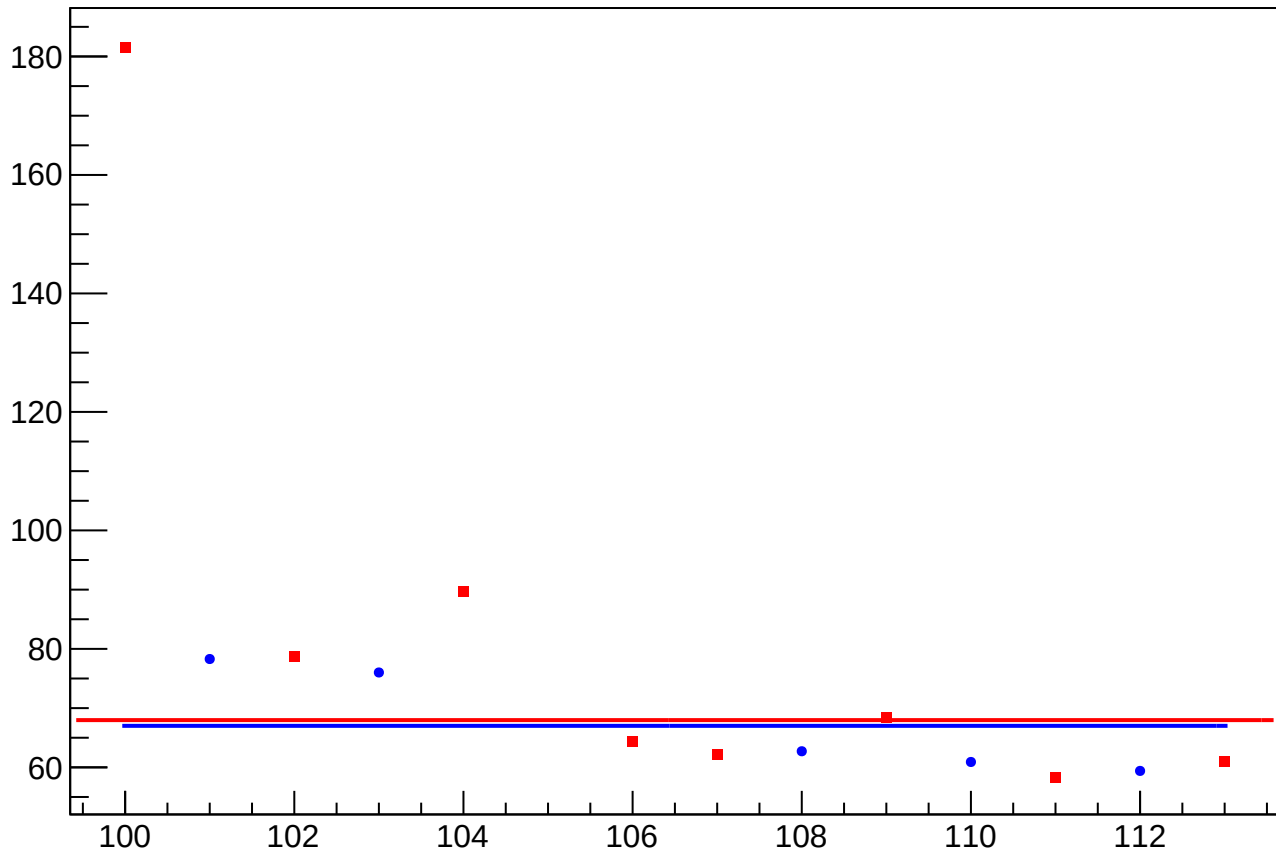
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $19.229 \pm 28.586$   $\chi^2/\text{NDF}: 13.9/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

eigen\_dit\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 67.010 $\pm$ 0.030  $\chi^2$ /NDF: 71014.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 67.975 $\pm$ 0.027  $\chi^2$ /NDF: 182788.7/7

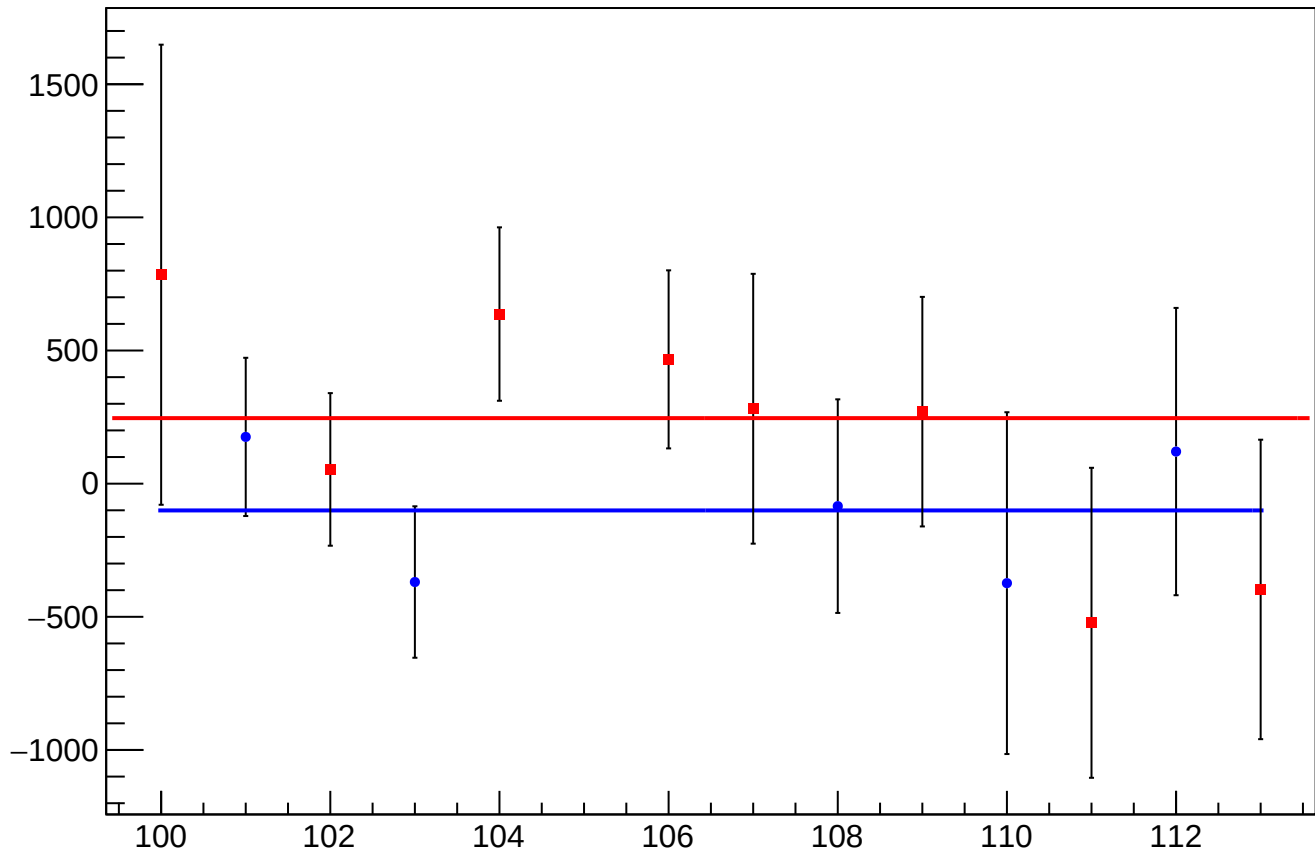
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 67.541 $\pm$ 0.020  $\chi^2$ /NDF: 254367.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -100.500+/-167.190  $\chi^2/\text{NDF}$ : 2.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 246.116+/-145.417  $\chi^2/\text{NDF}$ : 5.8/7

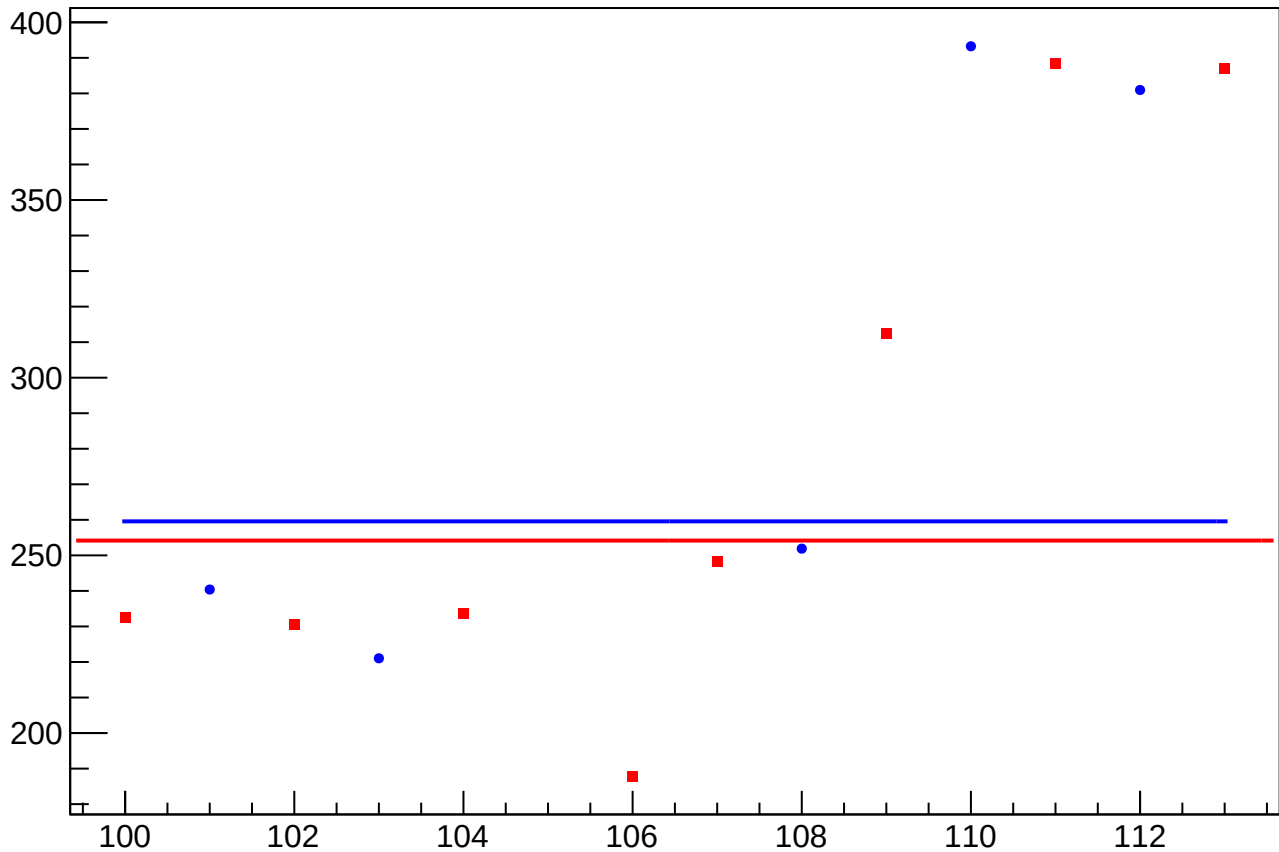
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 96.834+/-109.721  $\chi^2/\text{NDF}$ : 10.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 259.572 $\pm$ 0.118  $\chi^2$ /NDF: 233845.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 254.171 $\pm$ 0.103  $\chi^2$ /NDF: 356876.9/7

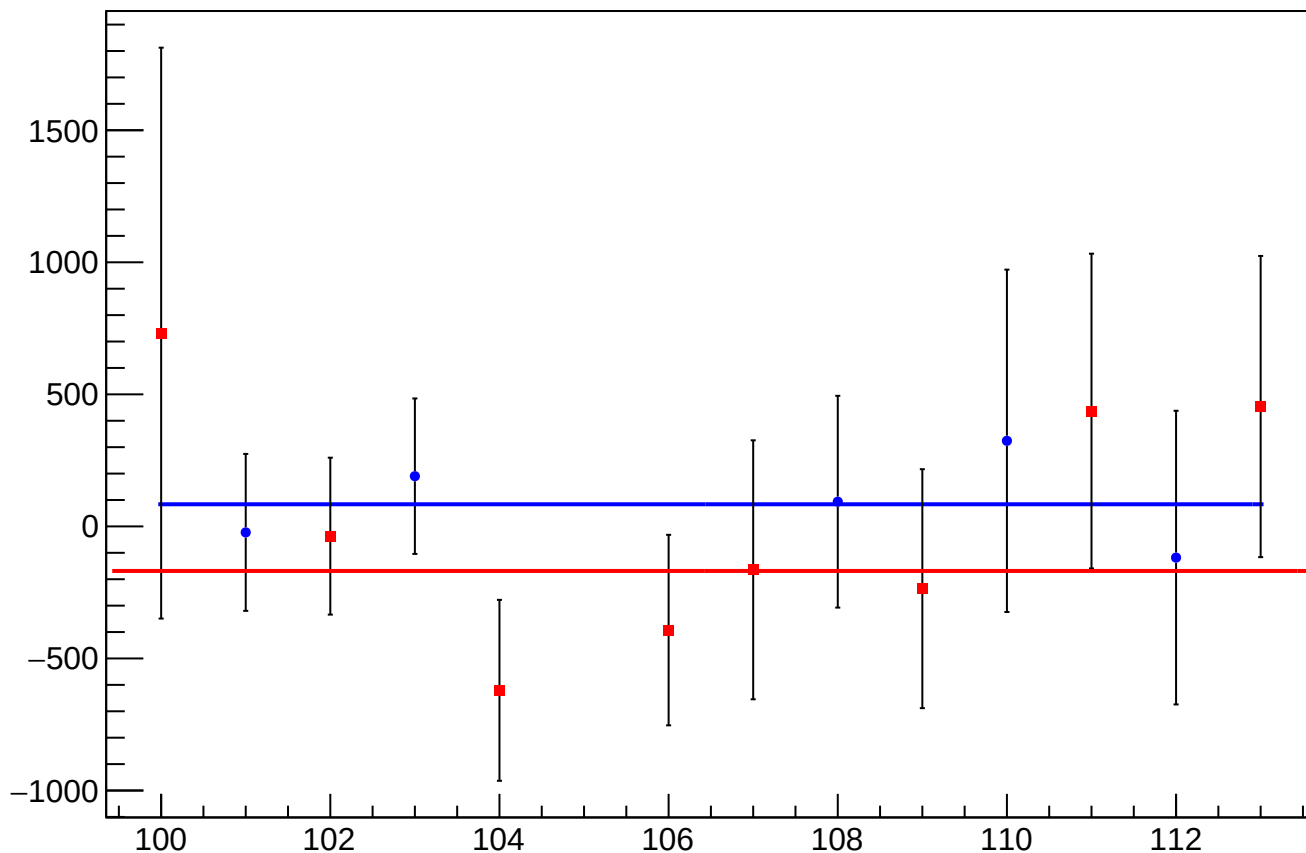
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 256.497 $\pm$ 0.078  $\chi^2$ /NDF: 591911.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 83.812 $\pm$ 169.739  $\chi^2$ /NDF: 0.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -168.674 $\pm$ 151.907  $\chi^2$ /NDF: 5.3/7

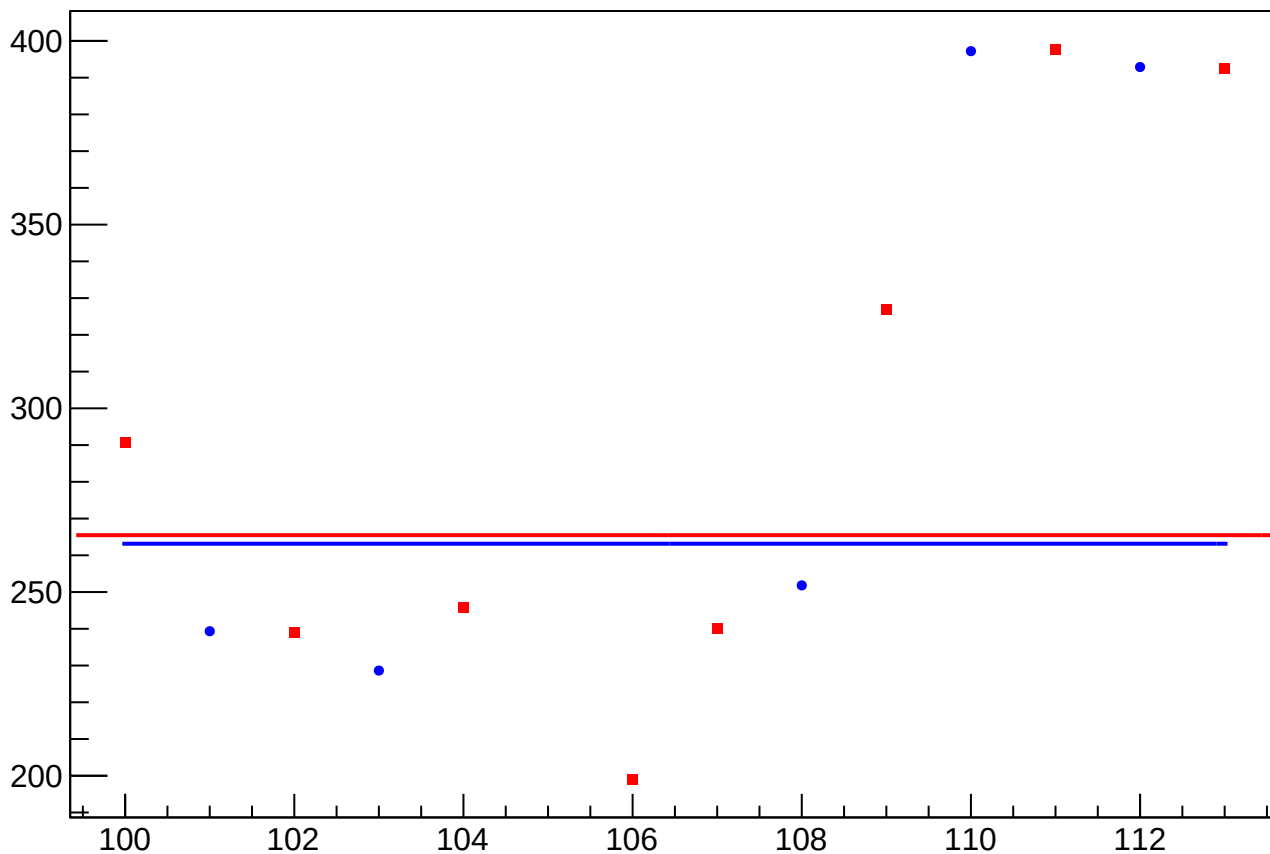
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -56.386 $\pm$ 113.196  $\chi^2$ /NDF: 7.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 263.154 $\pm$ 0.120  $\chi^2$ /NDF: 236431.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 265.483 $\pm$ 0.107  $\chi^2$ /NDF: 331738.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

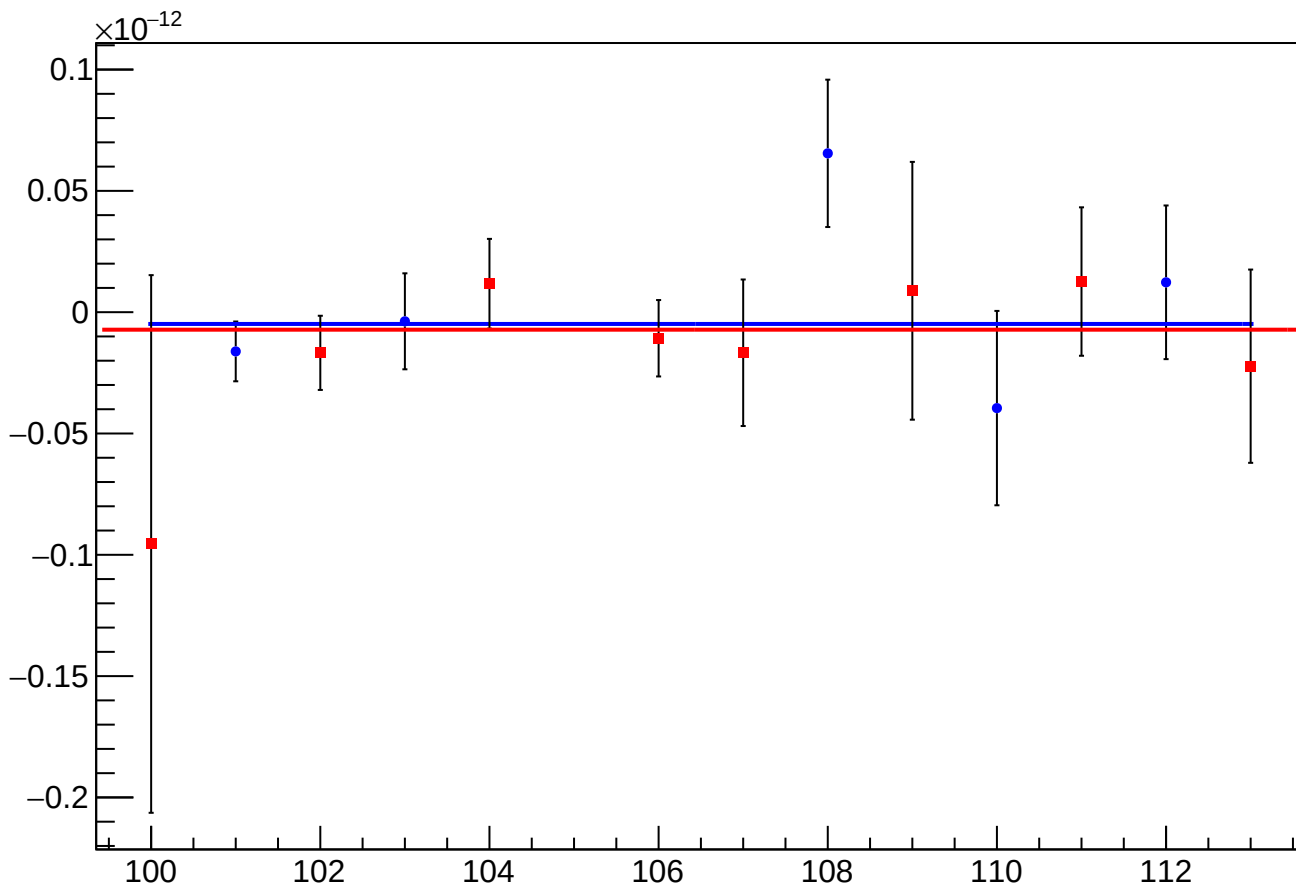
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 264.447 $\pm$ 0.080  $\chi^2$ /NDF: 568379.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_48\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.9/7

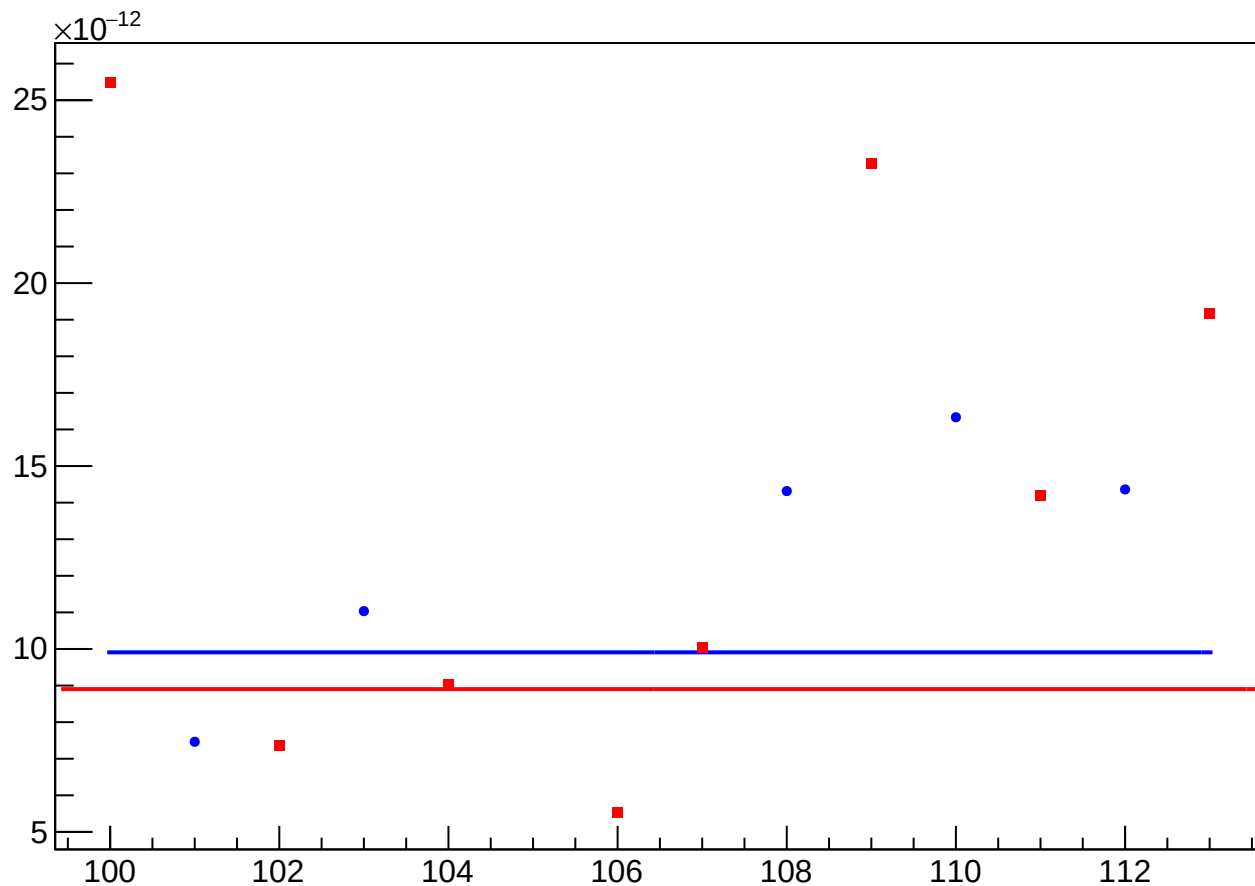
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 218420.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 498416.2/7

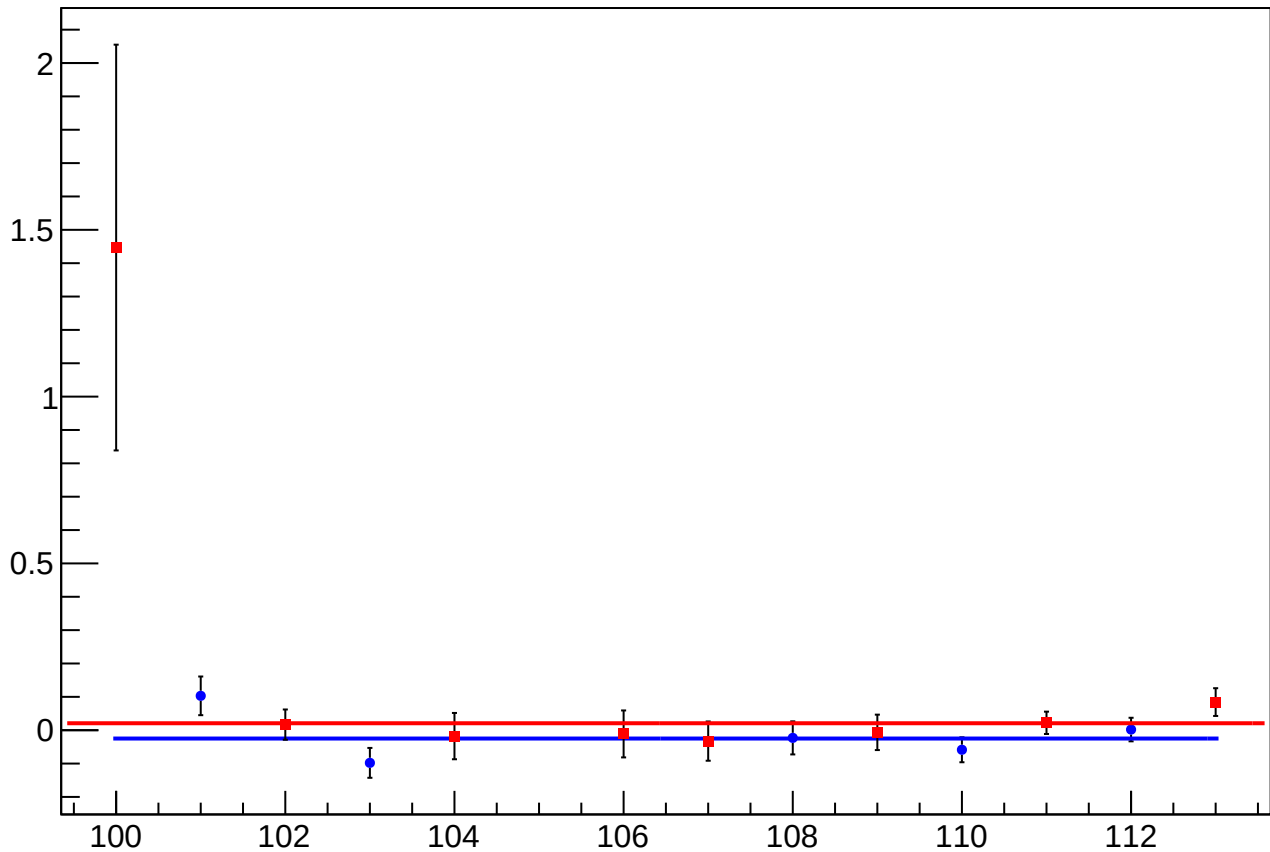
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 729984.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.025 \pm 0.019$   $\chi^2/\text{NDF}$ : 8.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.021 \pm 0.018$   $\chi^2/\text{NDF}$ : 9.4/7

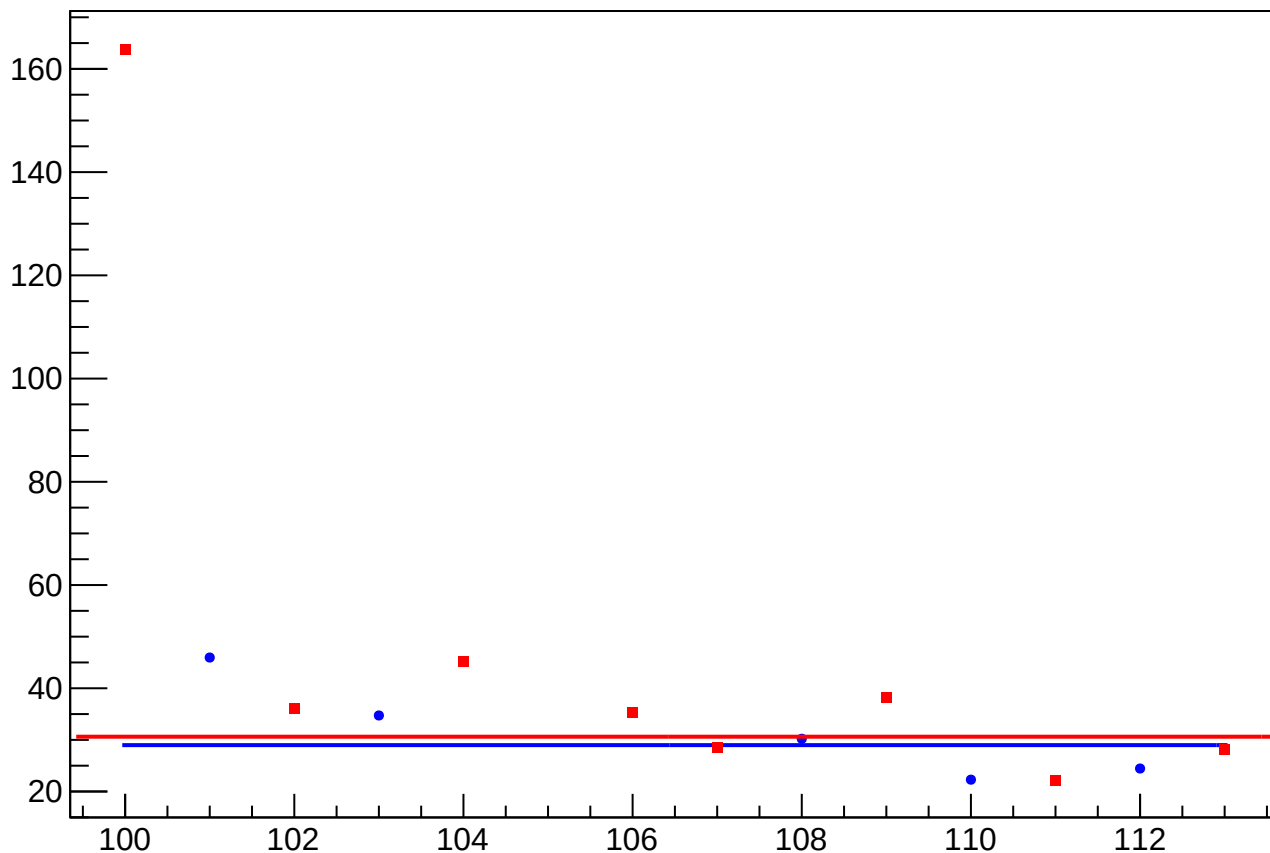
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.001 \pm 0.013$   $\chi^2/\text{NDF}$ : 21.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 28.983+/-0.014  $\chi^2/\text{NDF}$ : 302736.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30.618+/-0.013  $\chi^2/\text{NDF}$ : 401518.2/7

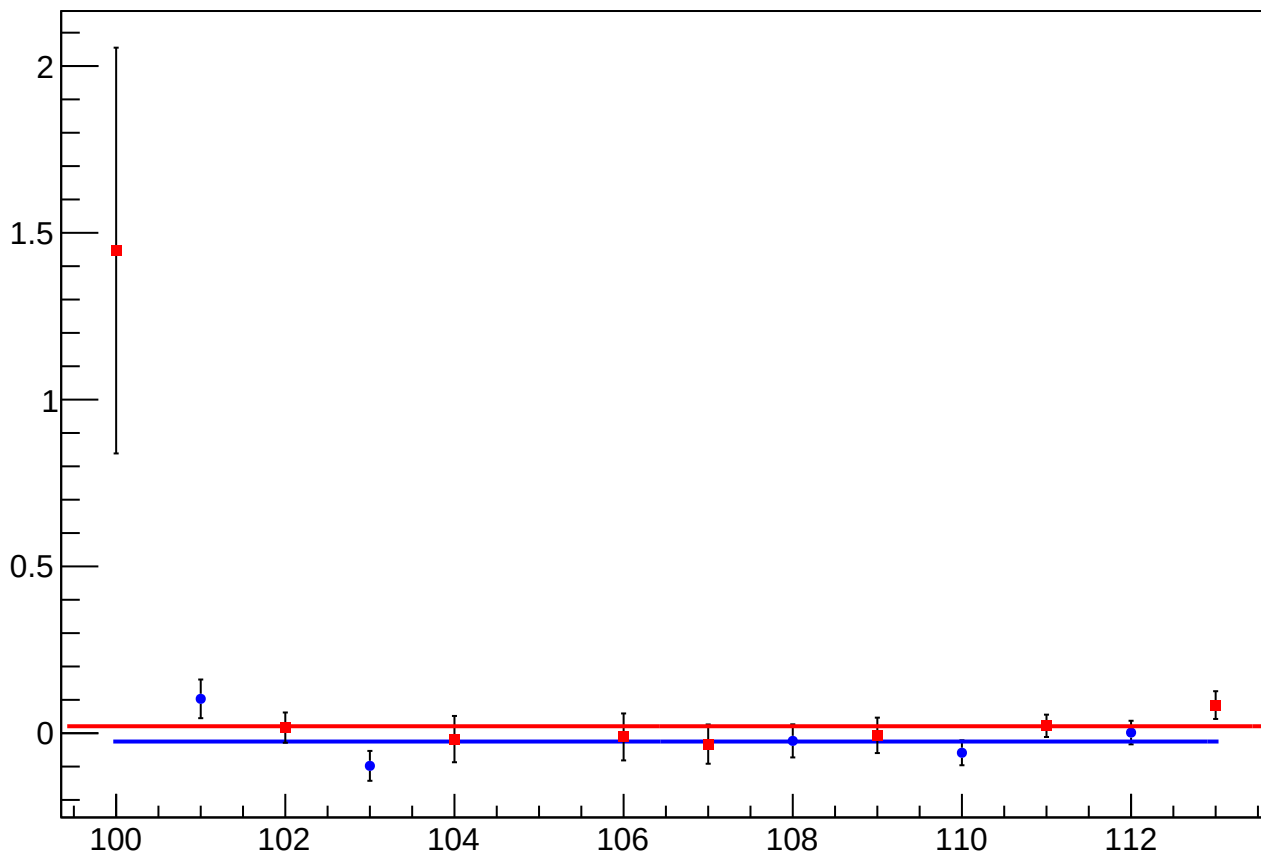
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.842+/-0.009  $\chi^2/\text{NDF}$ : 711899.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.025 $\pm$ 0.019  $\chi^2$ /NDF: 8.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.021 $\pm$ 0.018  $\chi^2$ /NDF: 9.4/7

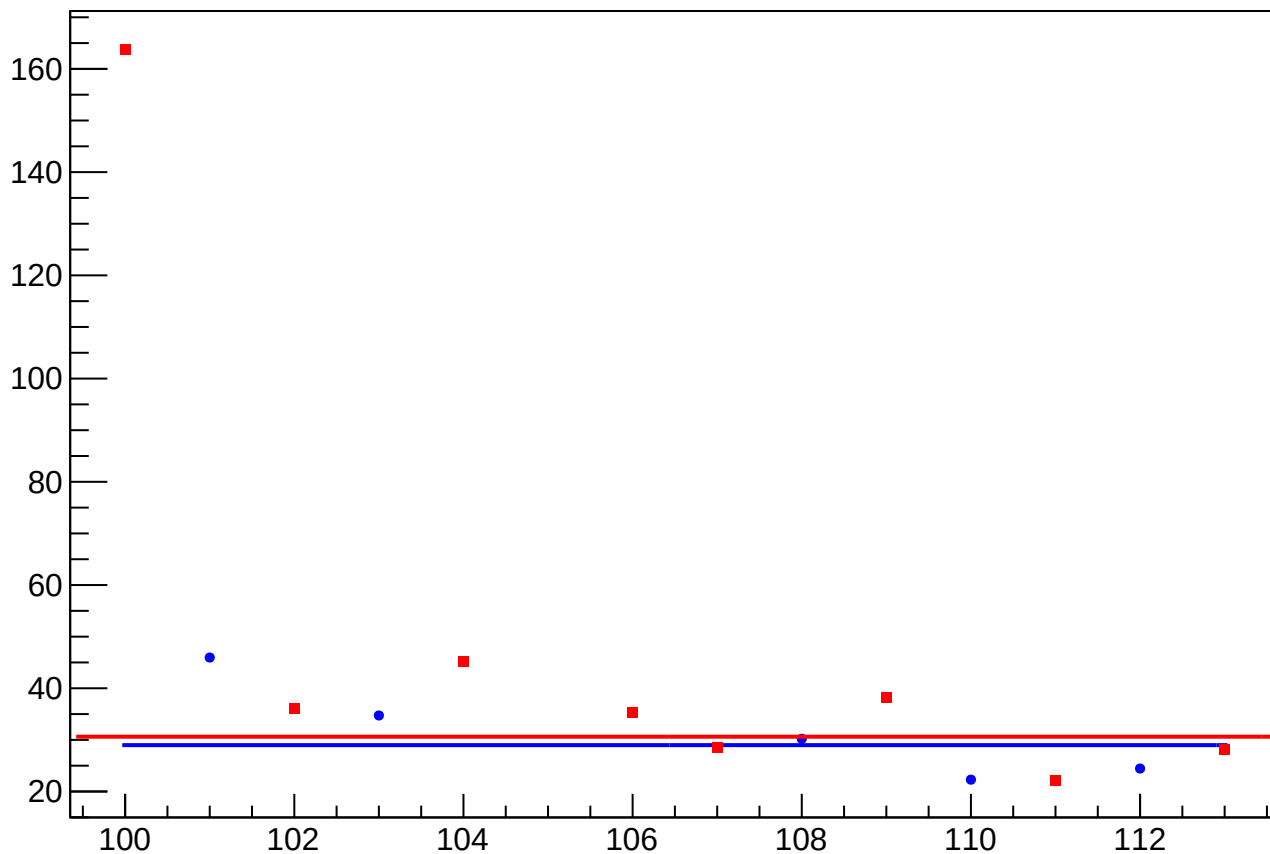
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.001 $\pm$ 0.013  $\chi^2$ /NDF: 21.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 28.983+/-0.014  $\chi^2/\text{NDF}$ : 302736.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30.618+/-0.013  $\chi^2/\text{NDF}$ : 401518.2/7

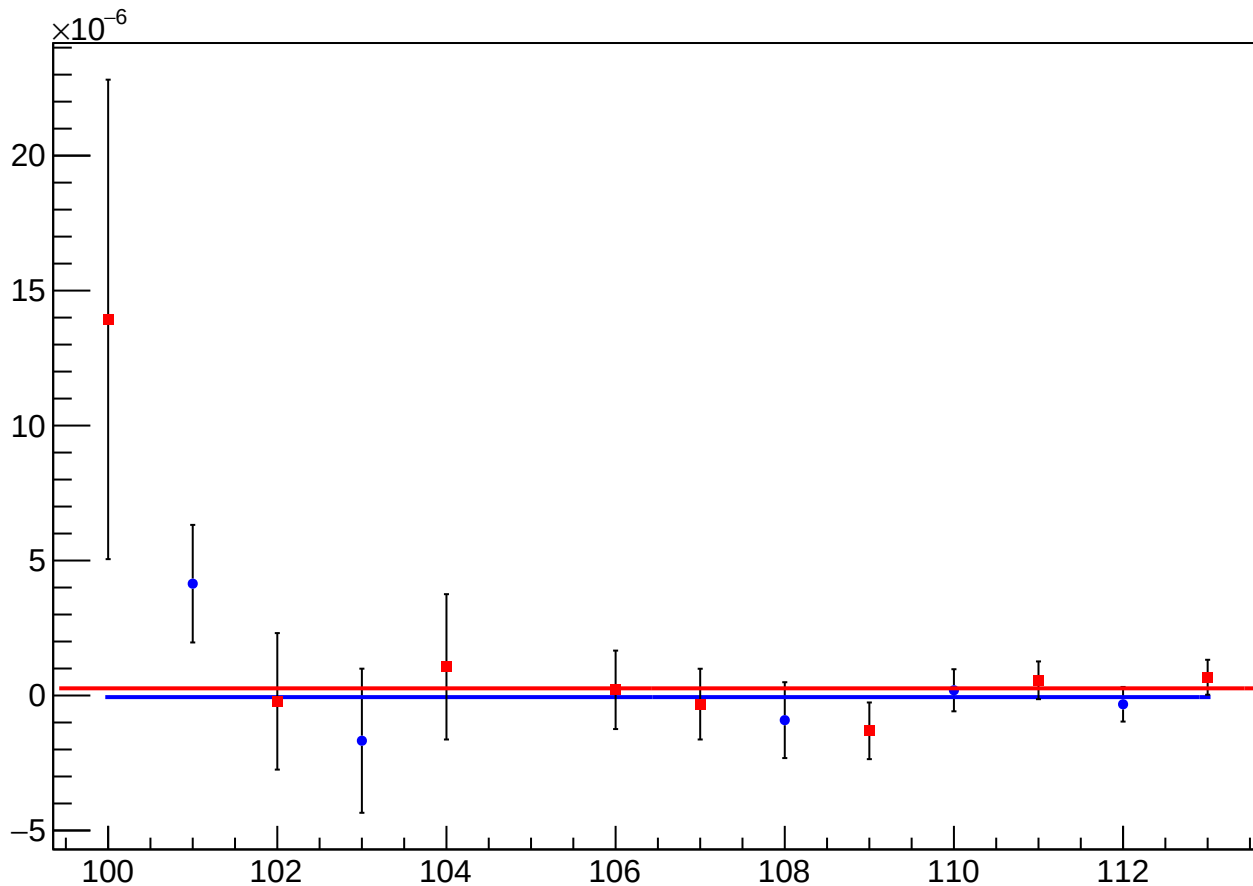
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.842+/-0.009  $\chi^2/\text{NDF}$ : 711899.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 4.7/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 5.5/7

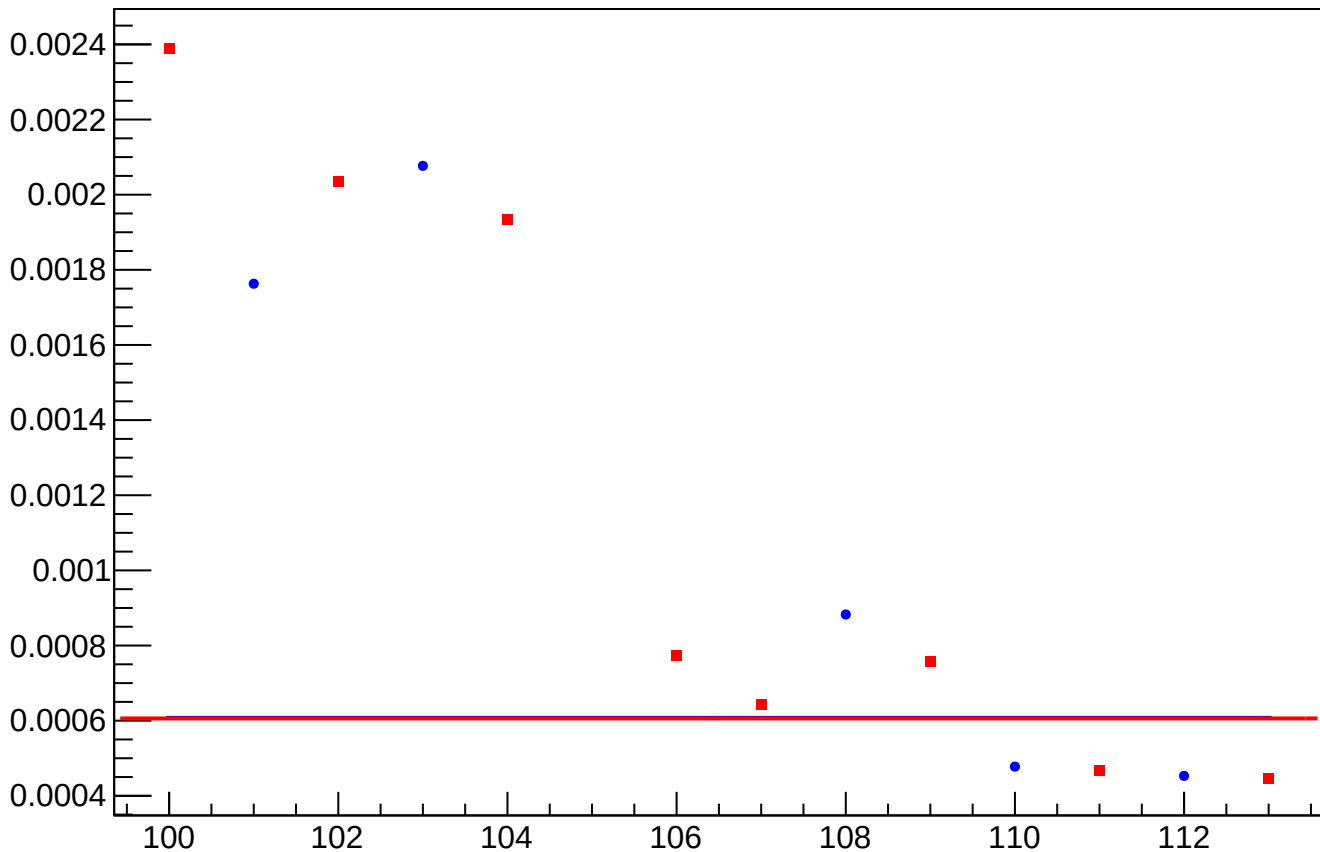
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 10.6/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1417003.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1478304.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

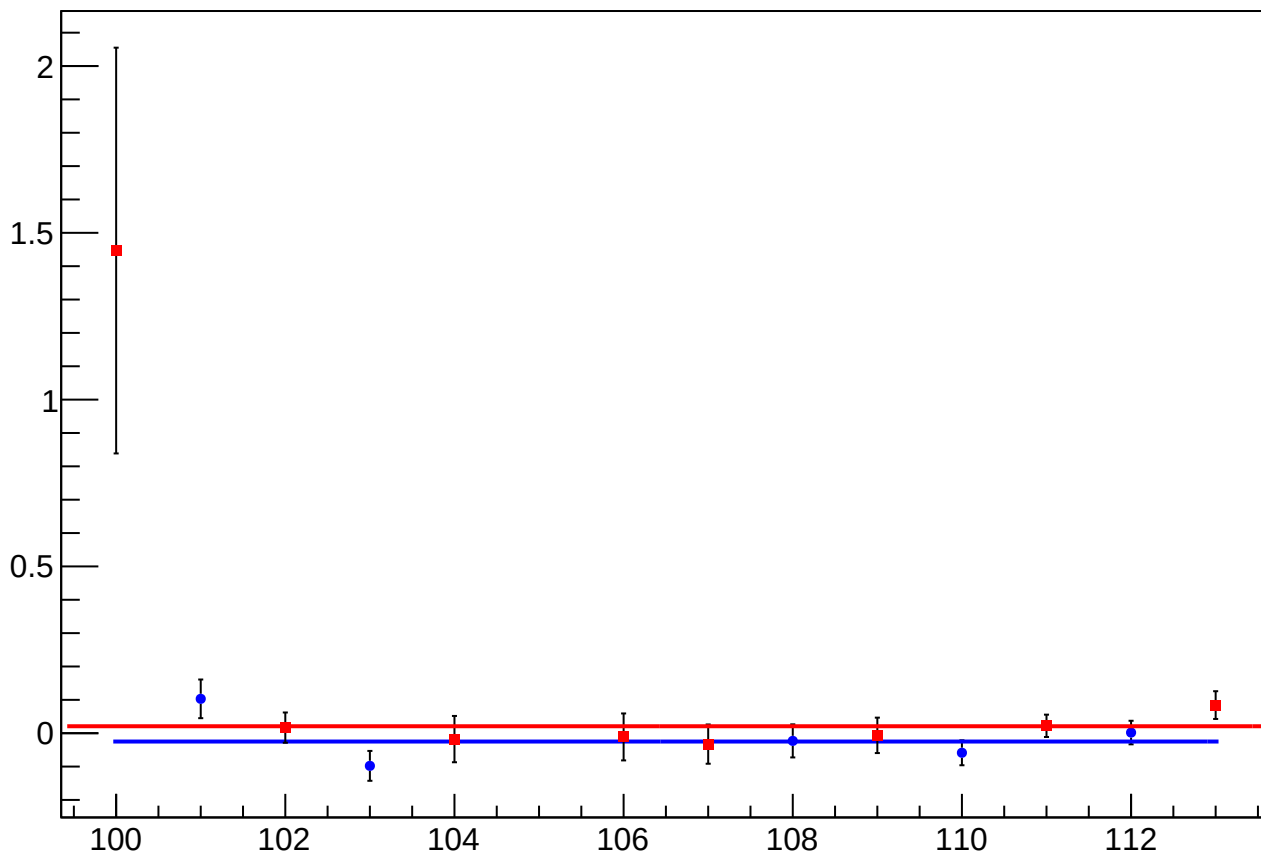
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2895321.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.025 $\pm$ 0.019  $\chi^2$ /NDF: 8.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.021 $\pm$ 0.018  $\chi^2$ /NDF: 9.4/7

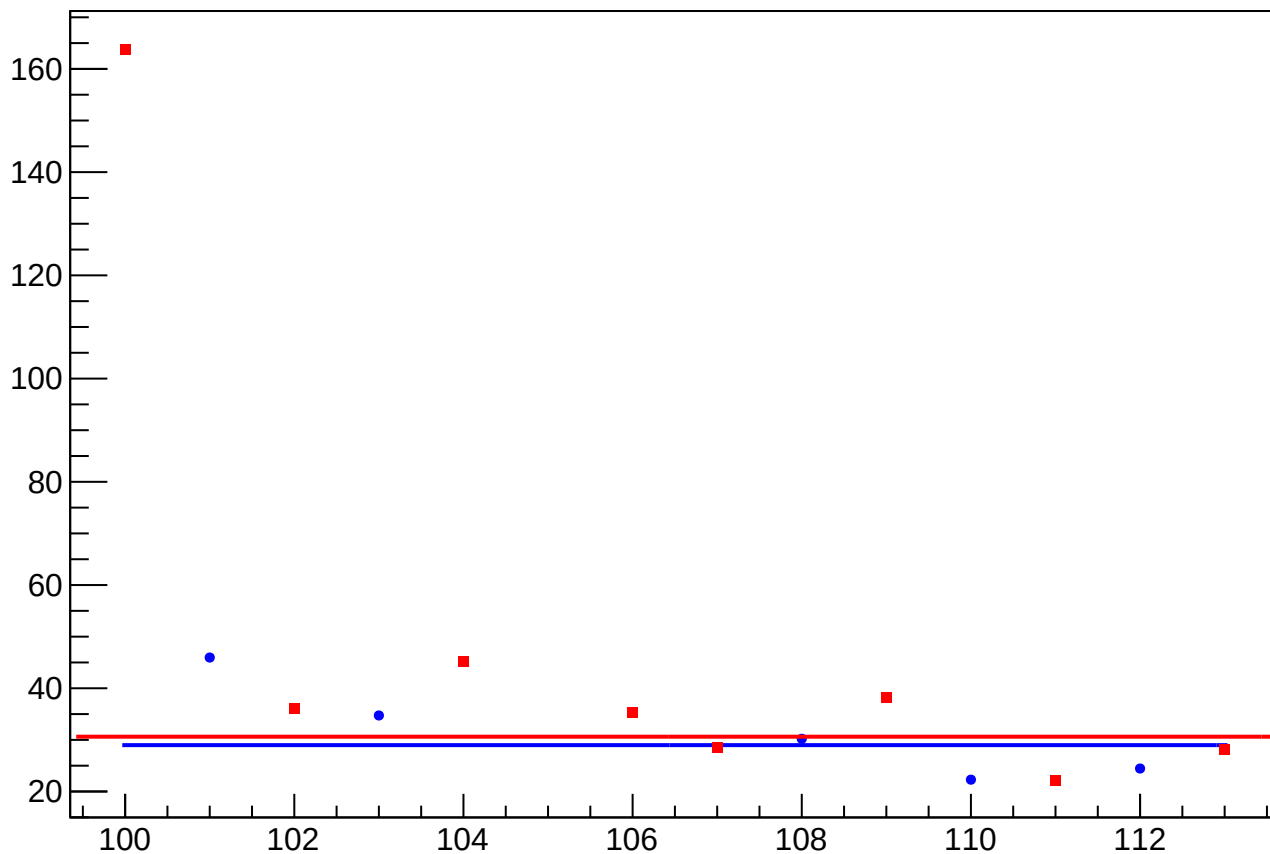
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.001 $\pm$ 0.013  $\chi^2$ /NDF: 21.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 28.983+/-0.014  $\chi^2/\text{NDF}$ : 302751.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30.618+/-0.013  $\chi^2/\text{NDF}$ : 401530.6/7

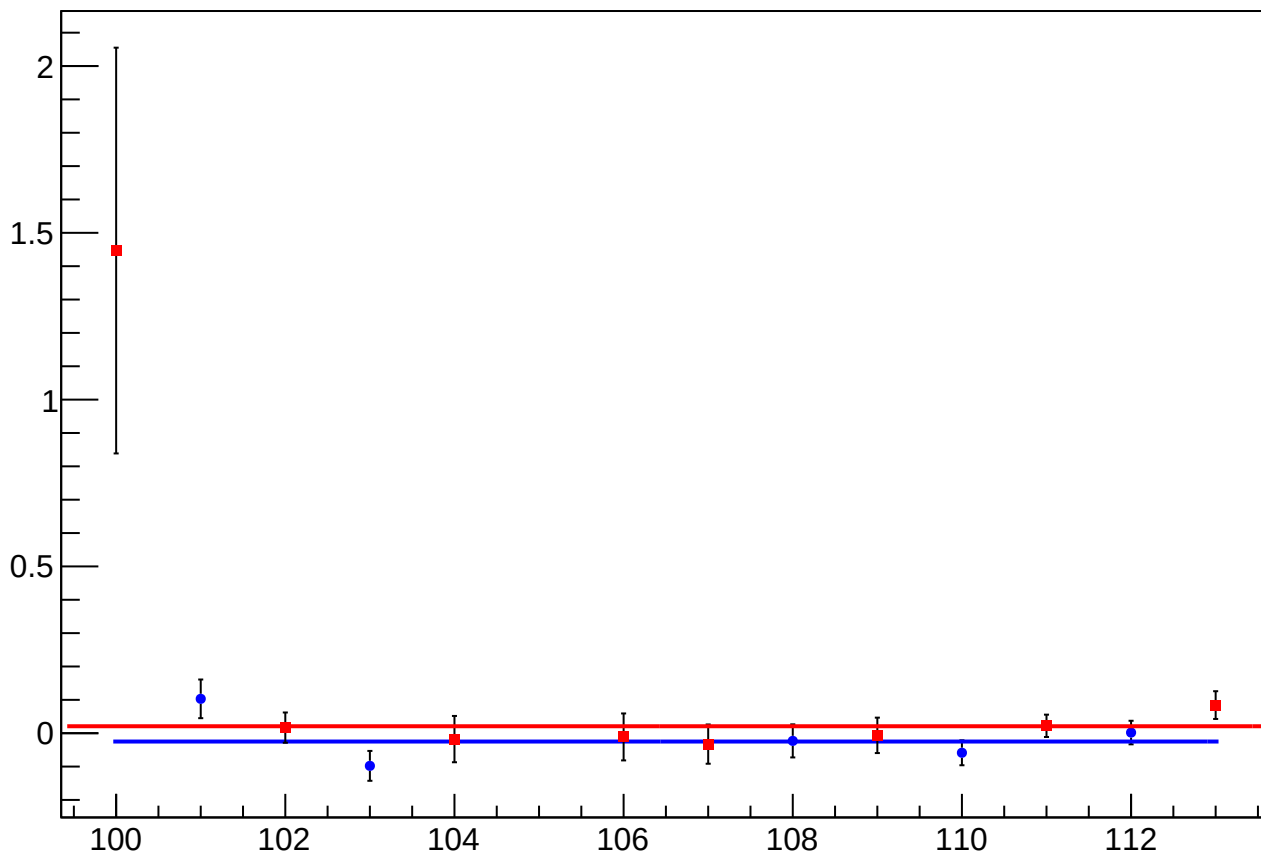
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.842+/-0.009  $\chi^2/\text{NDF}$ : 711927.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.025 \pm 0.019$   $\chi^2/\text{NDF}$ : 8.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.021 \pm 0.018$   $\chi^2/\text{NDF}$ : 9.4/7

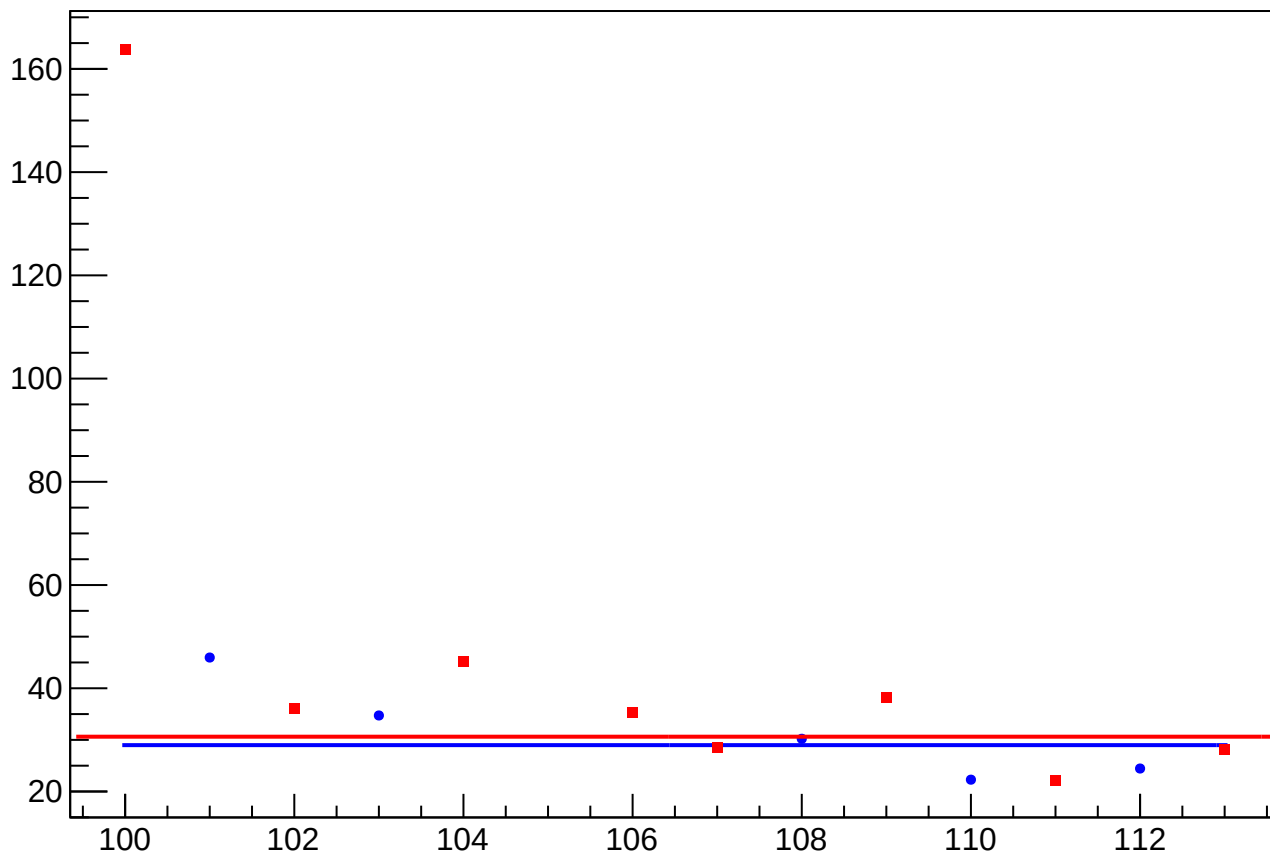
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.001 \pm 0.013$   $\chi^2/\text{NDF}$ : 21.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 28.983+/-0.014  $\chi^2/\text{NDF}$ : 302751.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30.618+/-0.013  $\chi^2/\text{NDF}$ : 401530.6/7

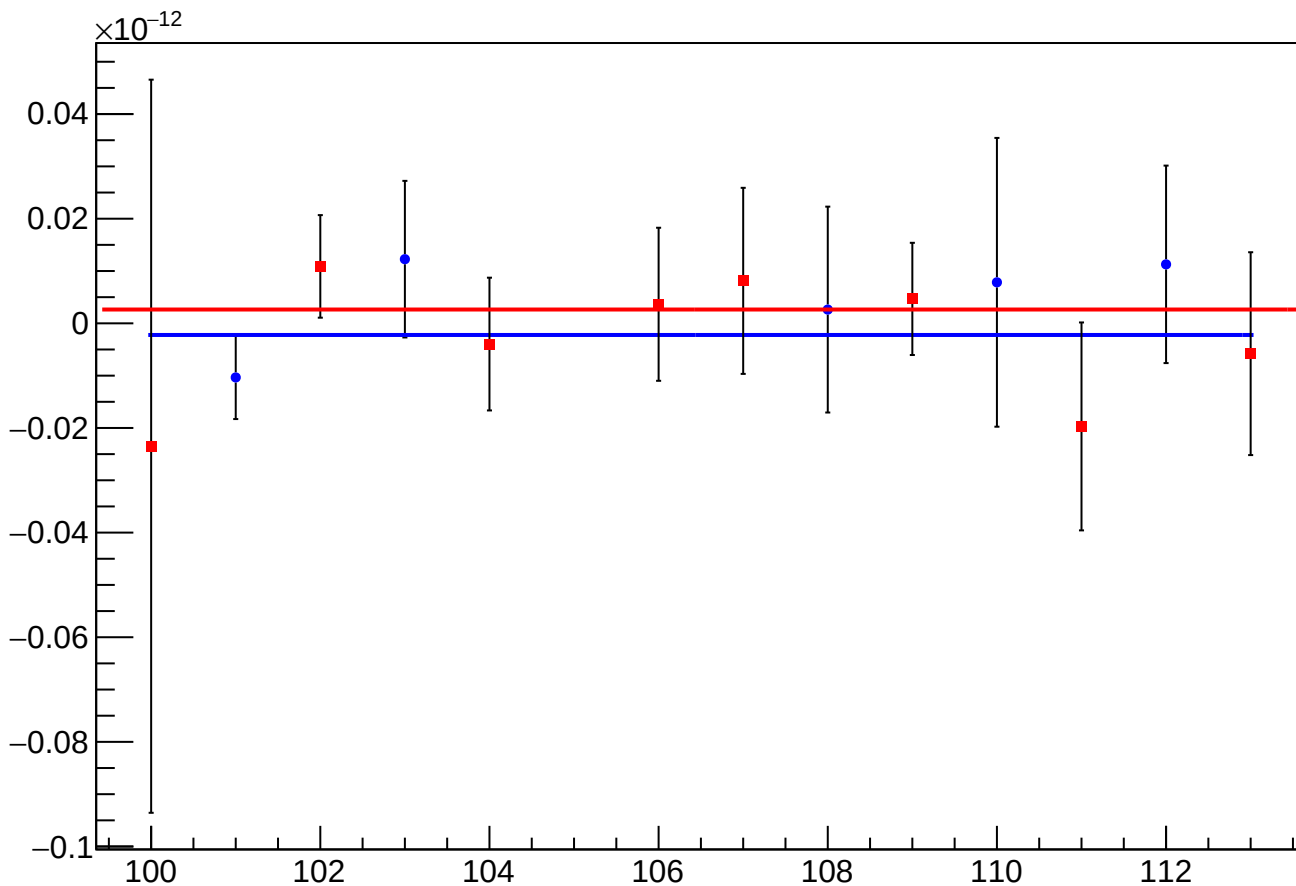
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.842+/-0.009  $\chi^2/\text{NDF}$ : 711927.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.7/7

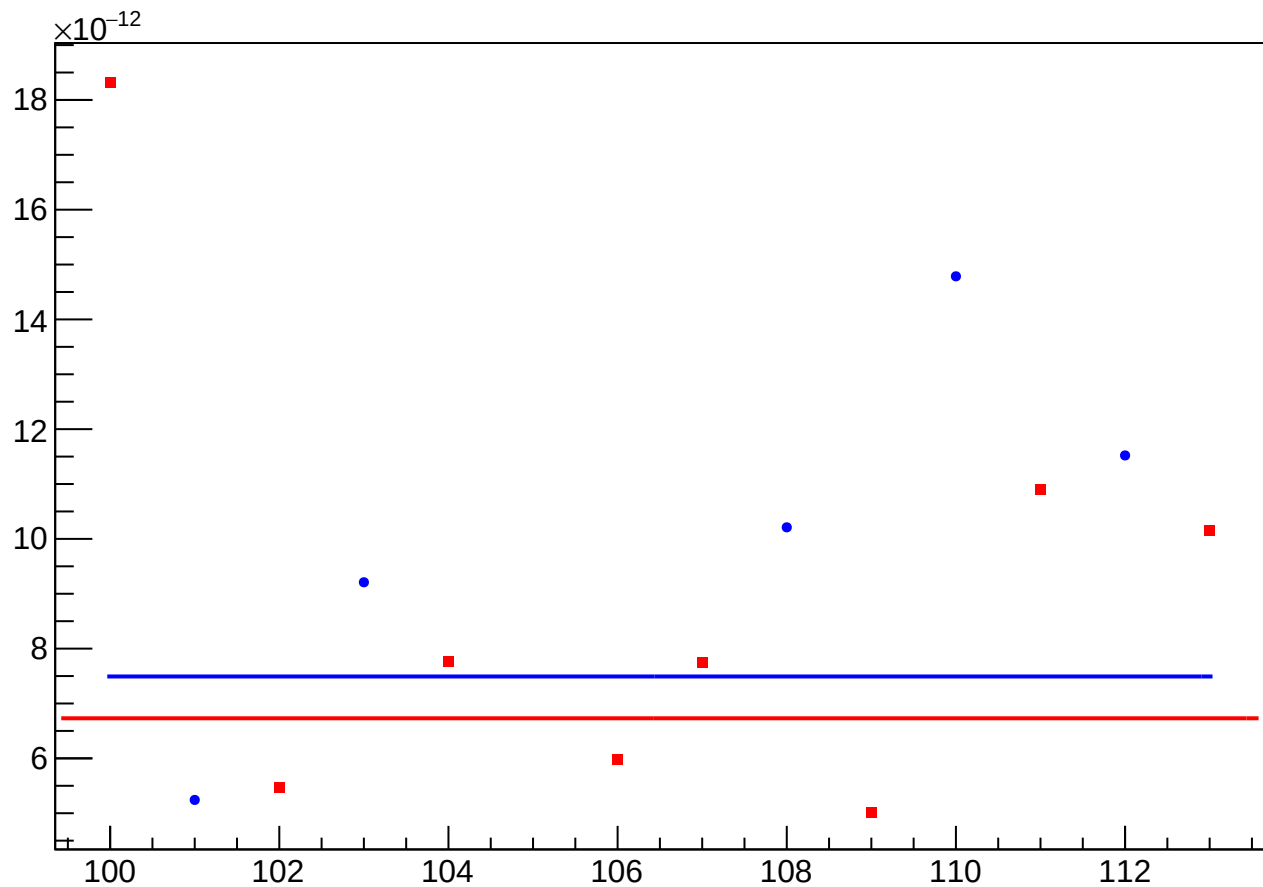
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 455332.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 315560.7/7

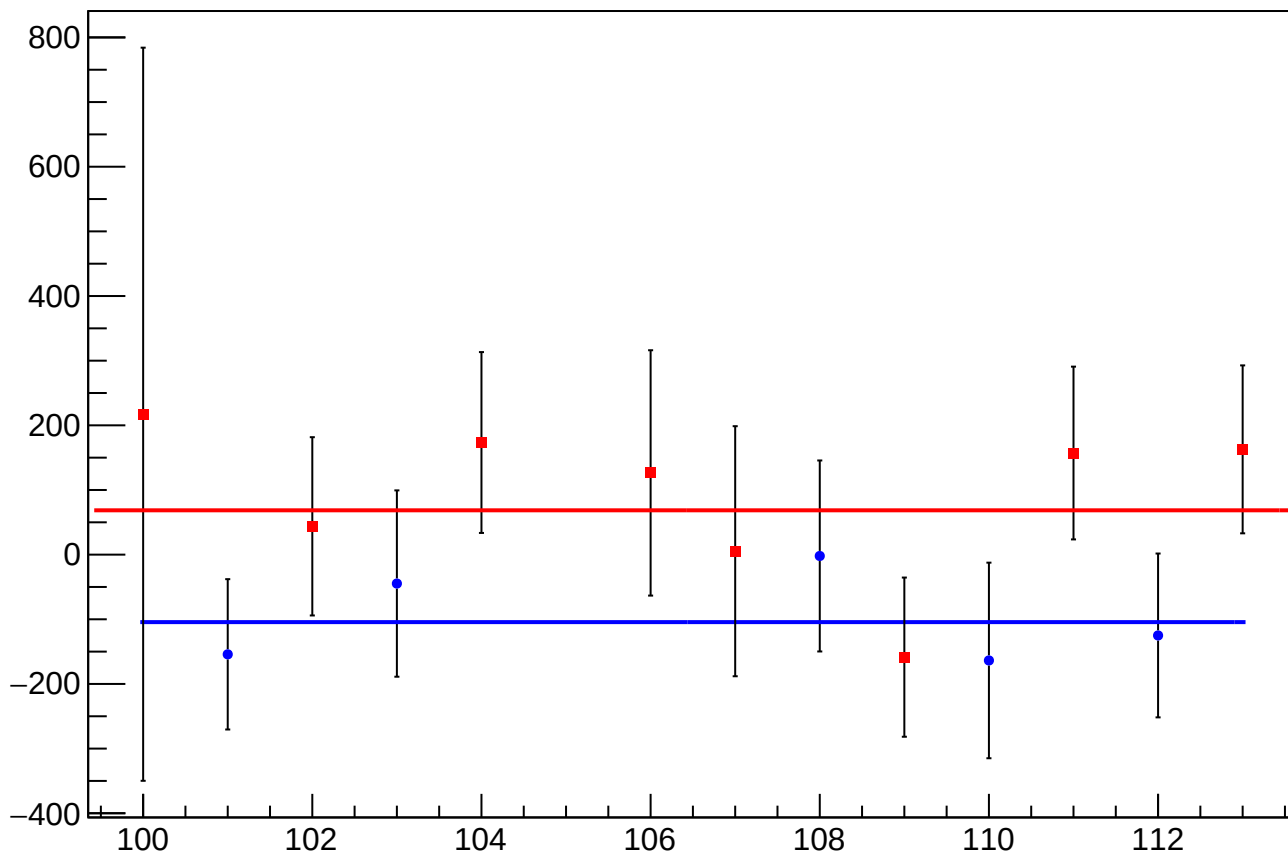
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 789333.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: -104.378 $\pm$ 60.417  $\chi^2$ /NDF: 1.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 68.556 $\pm$ 54.024  $\chi^2$ /NDF: 5.2/7

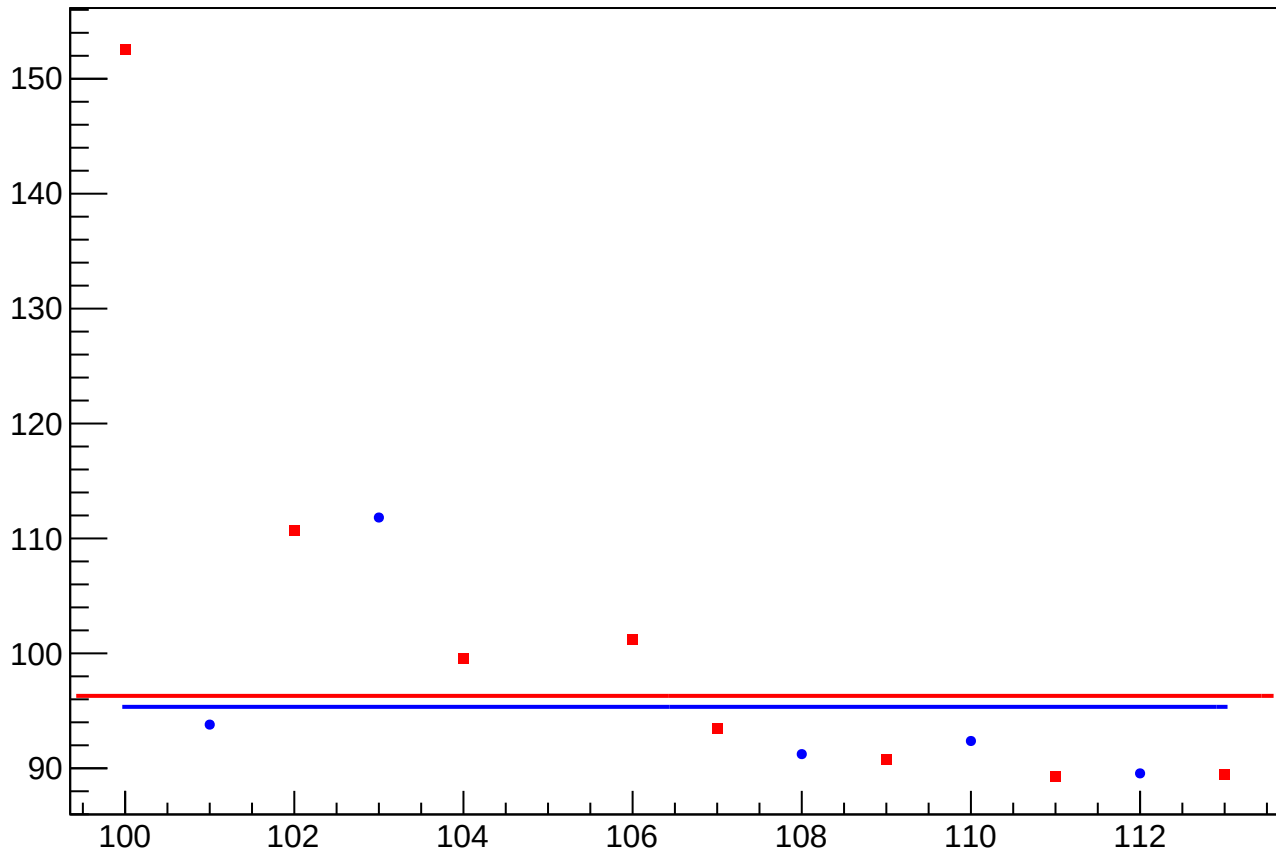
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -8.281 $\pm$ 40.272  $\chi^2$ /NDF: 10.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 95.346+/-0.043  $\chi^2/\text{NDF}$ : 32990.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 96.301+/-0.038  $\chi^2/\text{NDF}$ : 59610.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

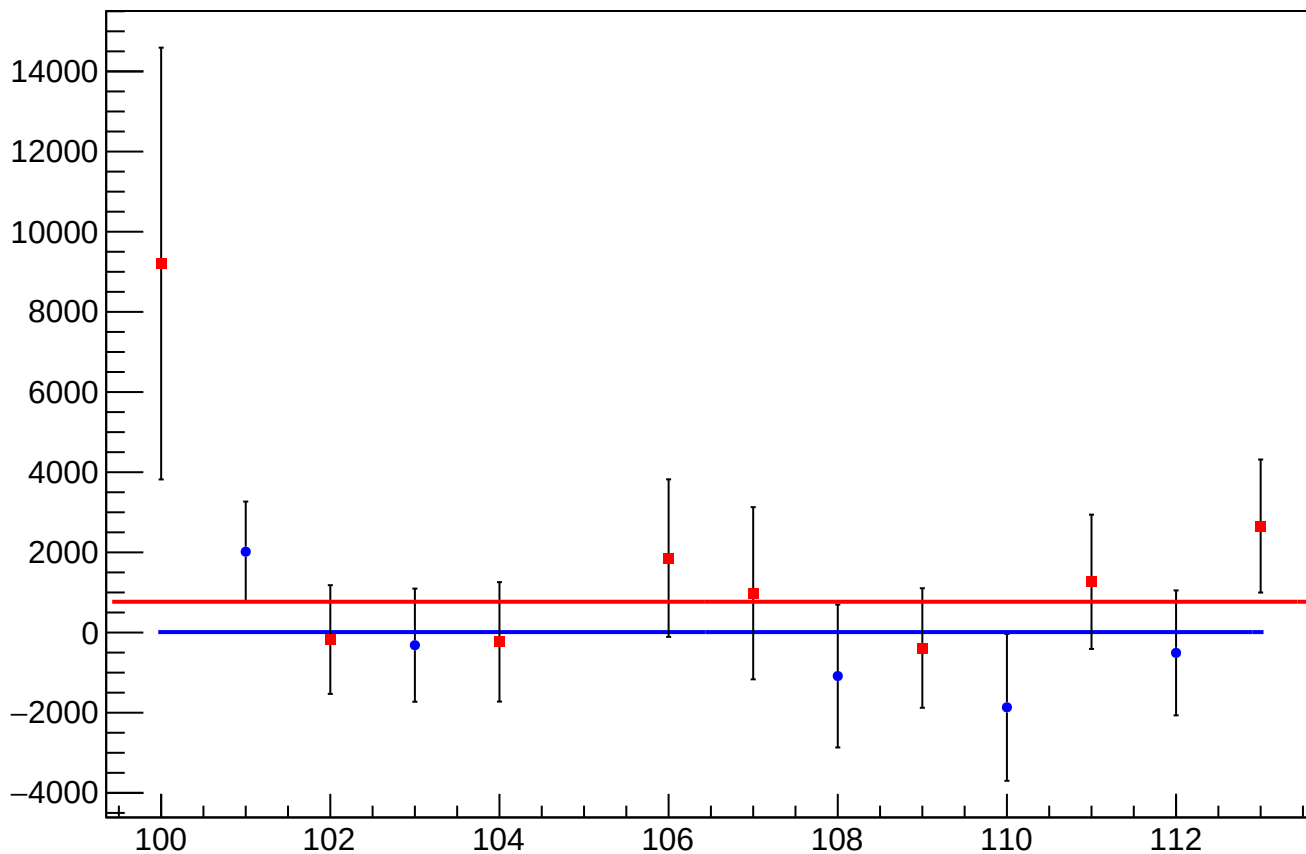
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.876+/-0.028  $\chi^2/\text{NDF}$ : 92878.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_26\_dd\_reg\_correction\_mean vs Slug



Right In: 11.223+/-679.700  $\chi^2/\text{NDF}$ : 4.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 768.078+/-611.661  $\chi^2/\text{NDF}$ : 5.7/7

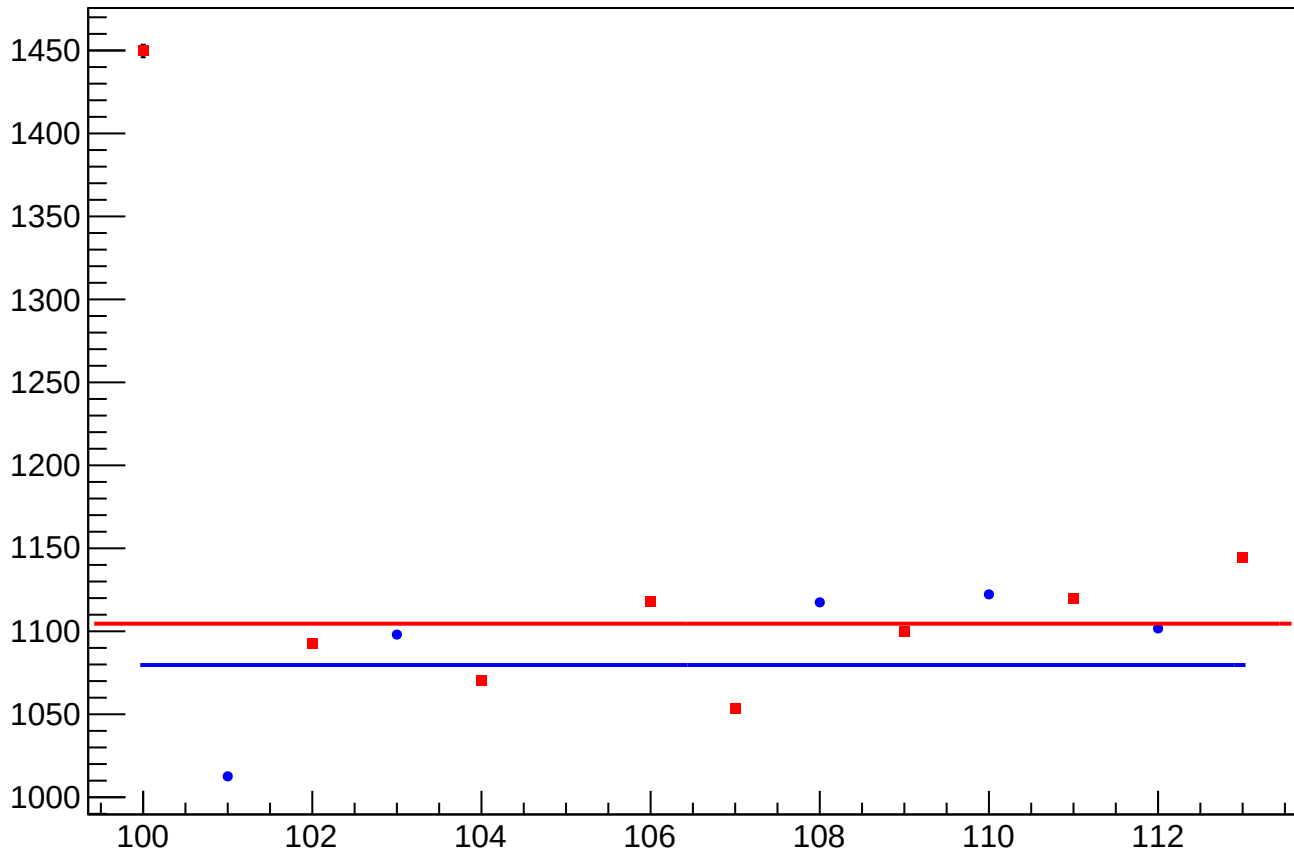
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 429.417+/-454.667  $\chi^2/\text{NDF}$ : 10.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_26\_dd\_reg\_correction\_rms vs Slug



Right In: 1079.682 $\pm$ 0.481  $\chi^2$ /NDF: 8461.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1104.593 $\pm$ 0.433  $\chi^2$ /NDF: 11954.4/7

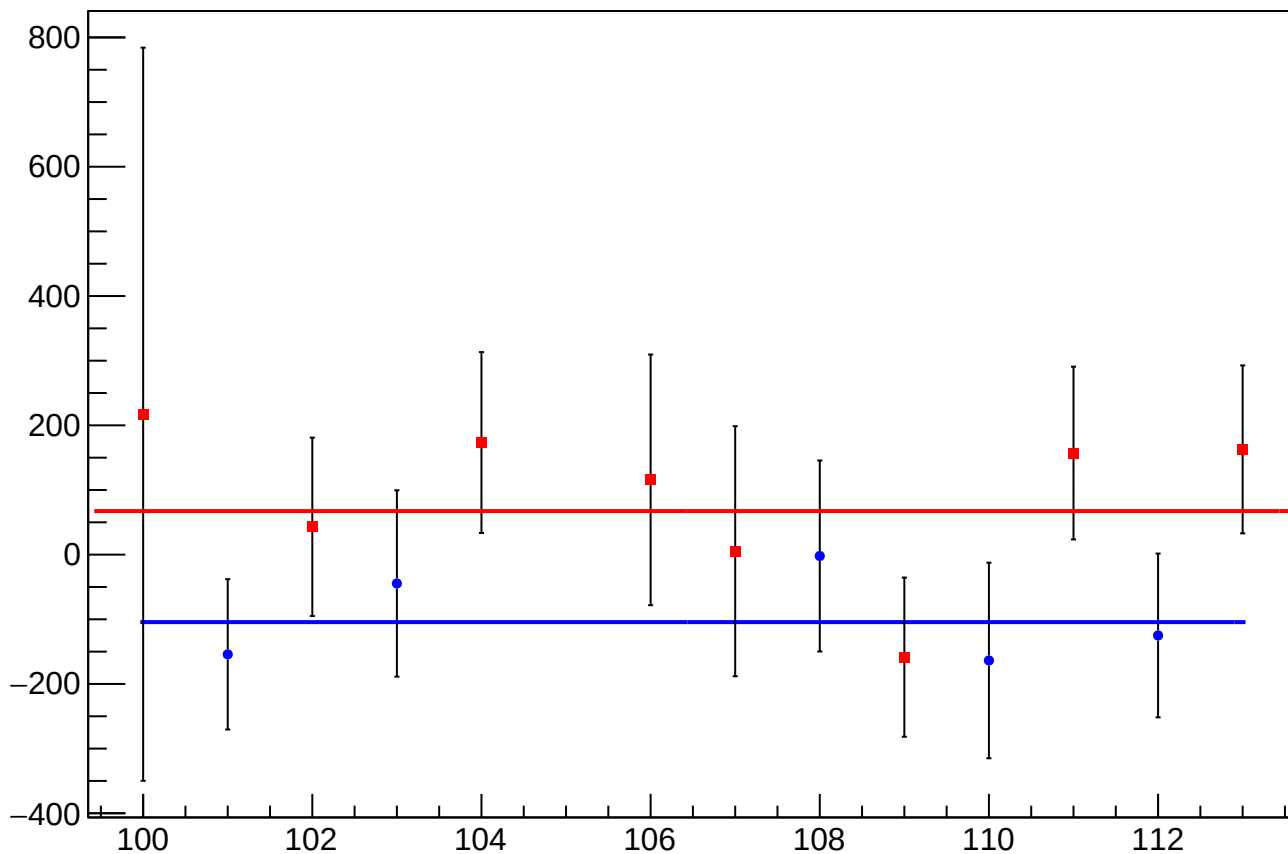
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1093.446 $\pm$ 0.321  $\chi^2$ /NDF: 21900.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: -104.356 $\pm$ 60.417  $\chi^2$ /NDF: 1.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.396 $\pm$ 54.122  $\chi^2$ /NDF: 5.2/7

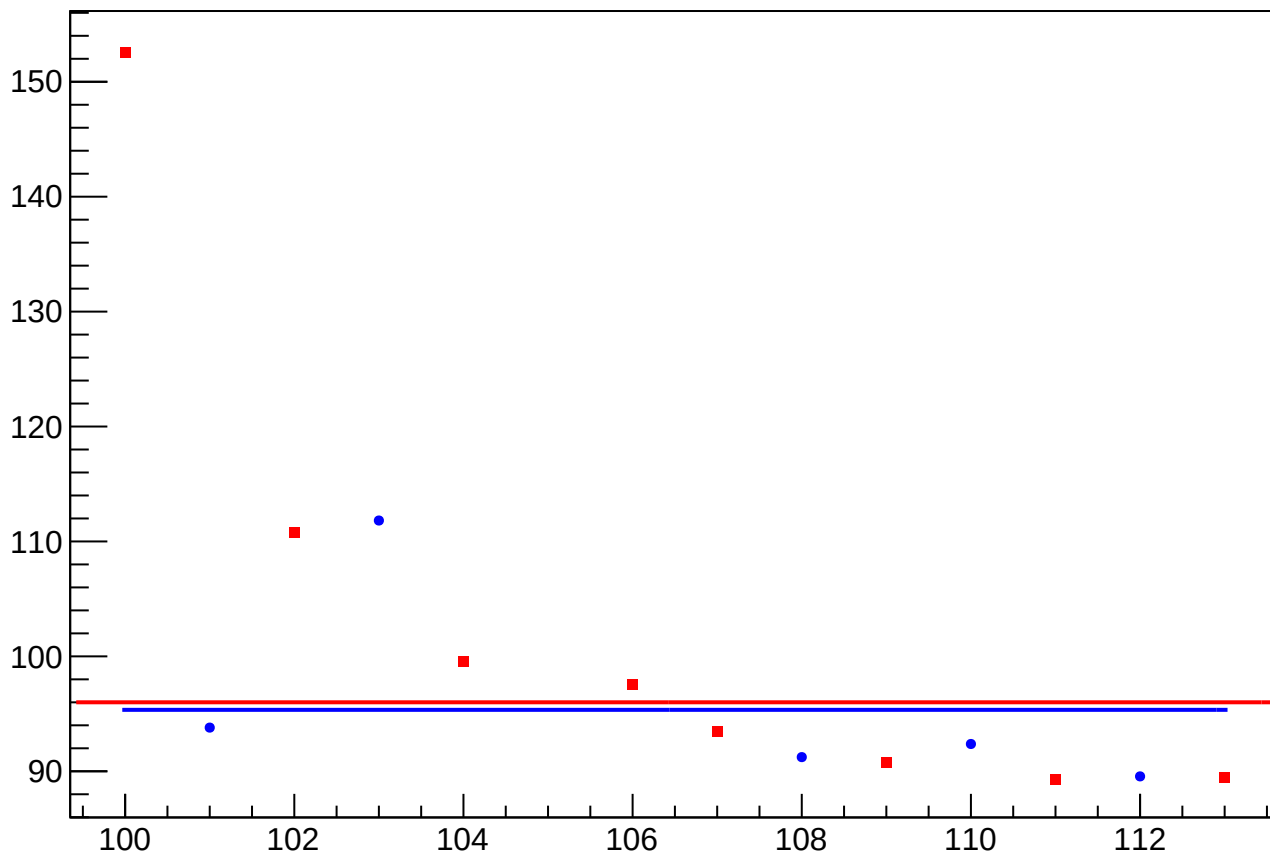
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9.069 $\pm$ 40.313  $\chi^2$ /NDF: 10.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 95.346+/-0.043  $\chi^2/\text{NDF}$ : 32992.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 96.003+/-0.038  $\chi^2/\text{NDF}$ : 58445.1/7

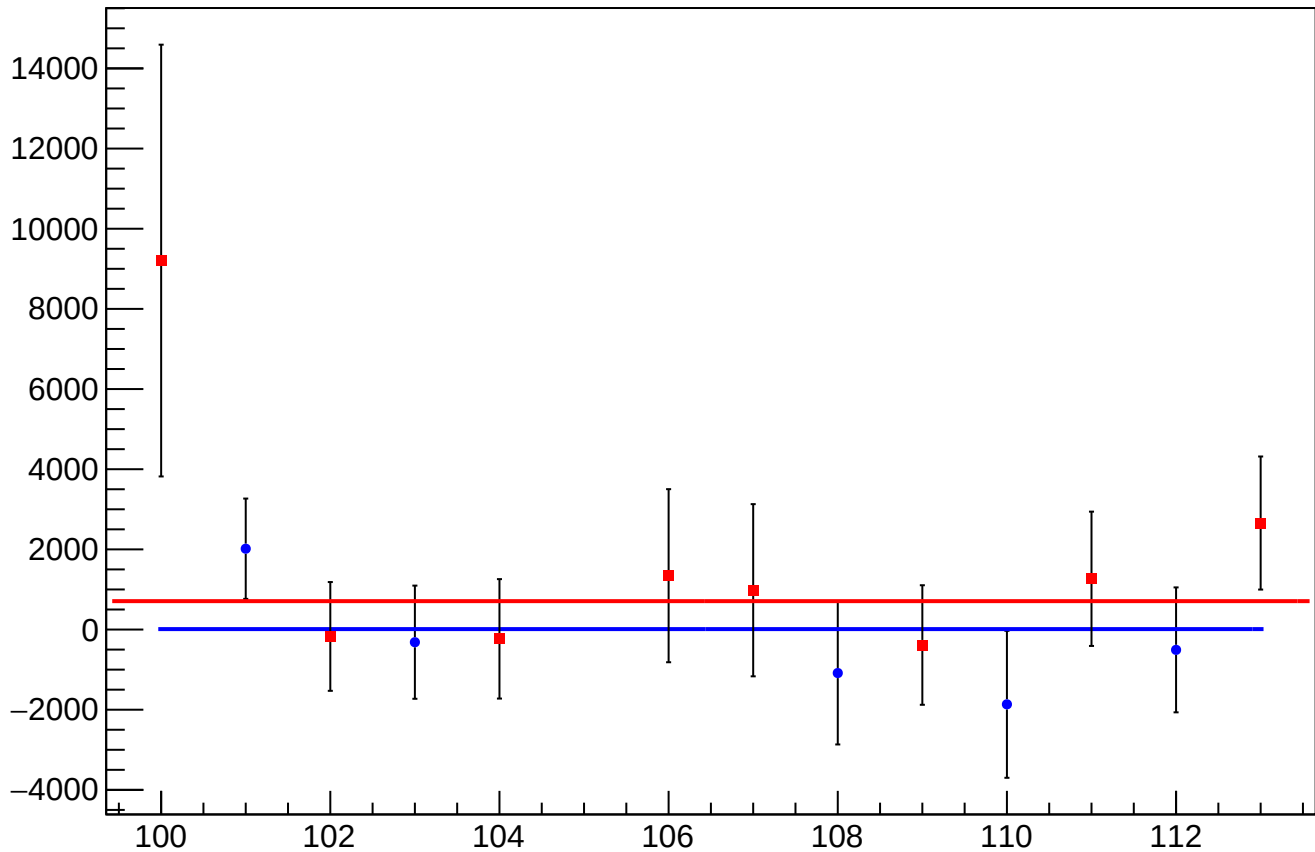
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.710+/-0.029  $\chi^2/\text{NDF}$ : 91568.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_26\_dd\_cor\_correction\_mean vs Slug



Right In: 11.115 $\pm$ 679.708  $\chi^2$ /NDF: 4.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 708.592 $\pm$ 616.881  $\chi^2$ /NDF: 5.4/7

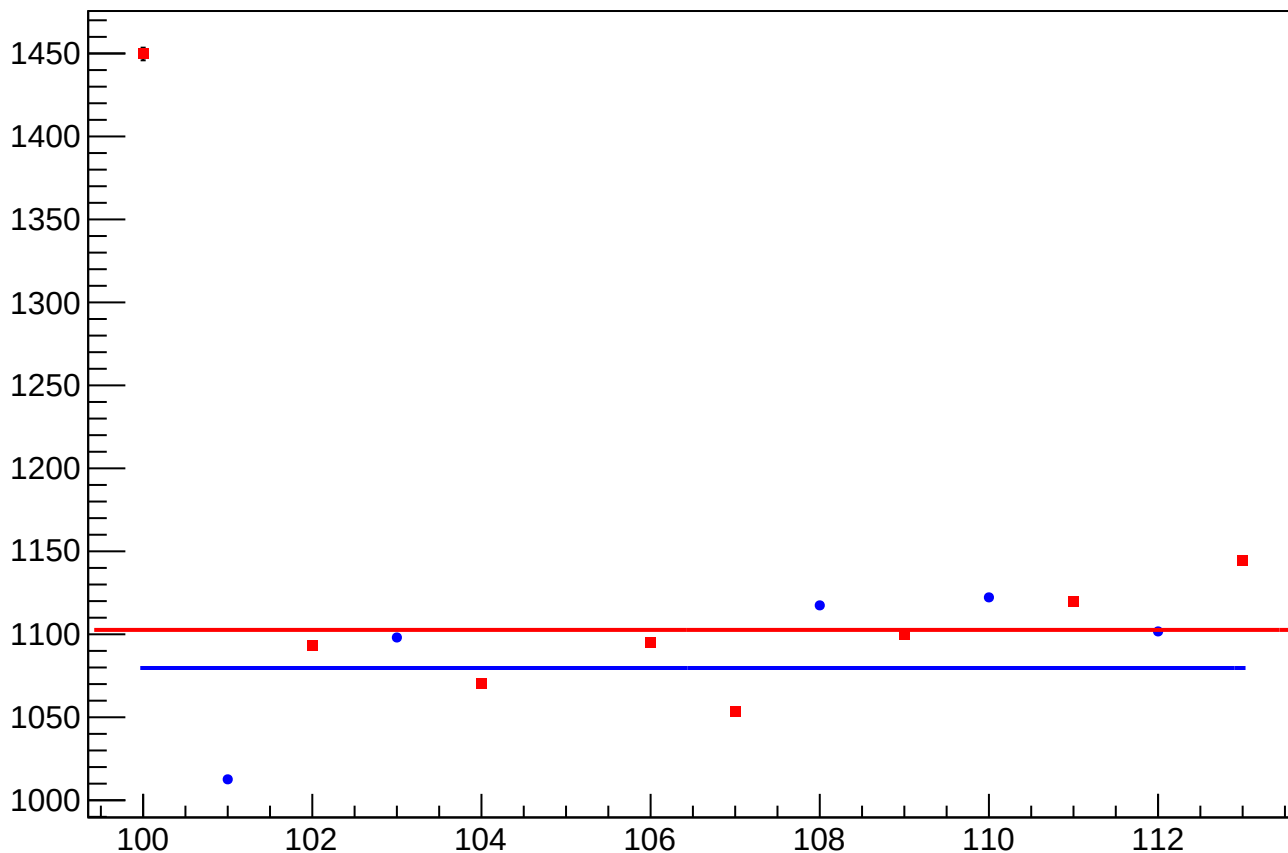
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 393.571 $\pm$ 456.801  $\chi^2$ /NDF: 10.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_cor\_correction\_rms vs Slug



Right In: 1079.694 $\pm$ 0.481  $\chi^2$ /NDF: 8463.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1102.648 $\pm$ 0.436  $\chi^2$ /NDF: 11868.4/7

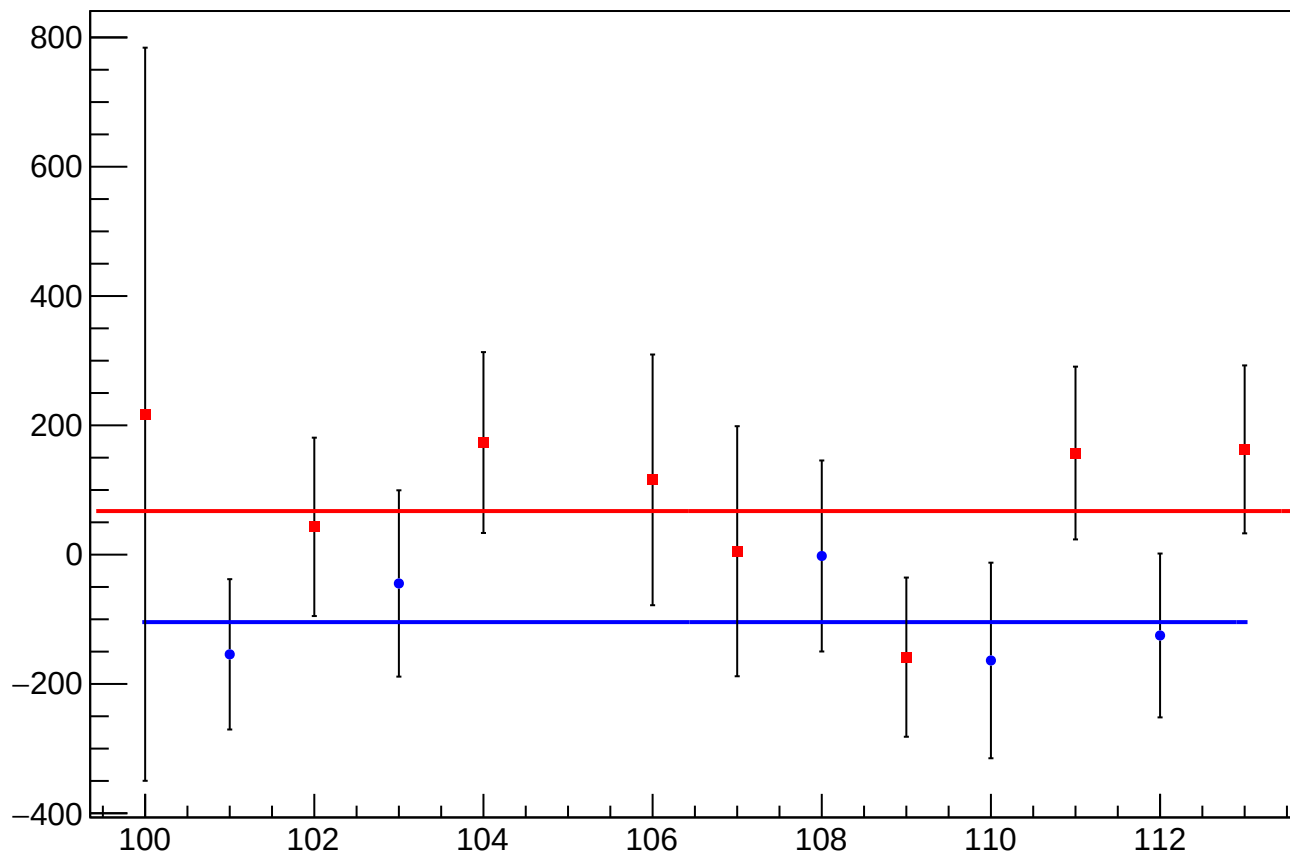
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1092.281 $\pm$ 0.323  $\chi^2$ /NDF: 21582.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: -104.356 $\pm$ 60.417  $\chi^2$ /NDF: 1.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.396 $\pm$ 54.122  $\chi^2$ /NDF: 5.2/7

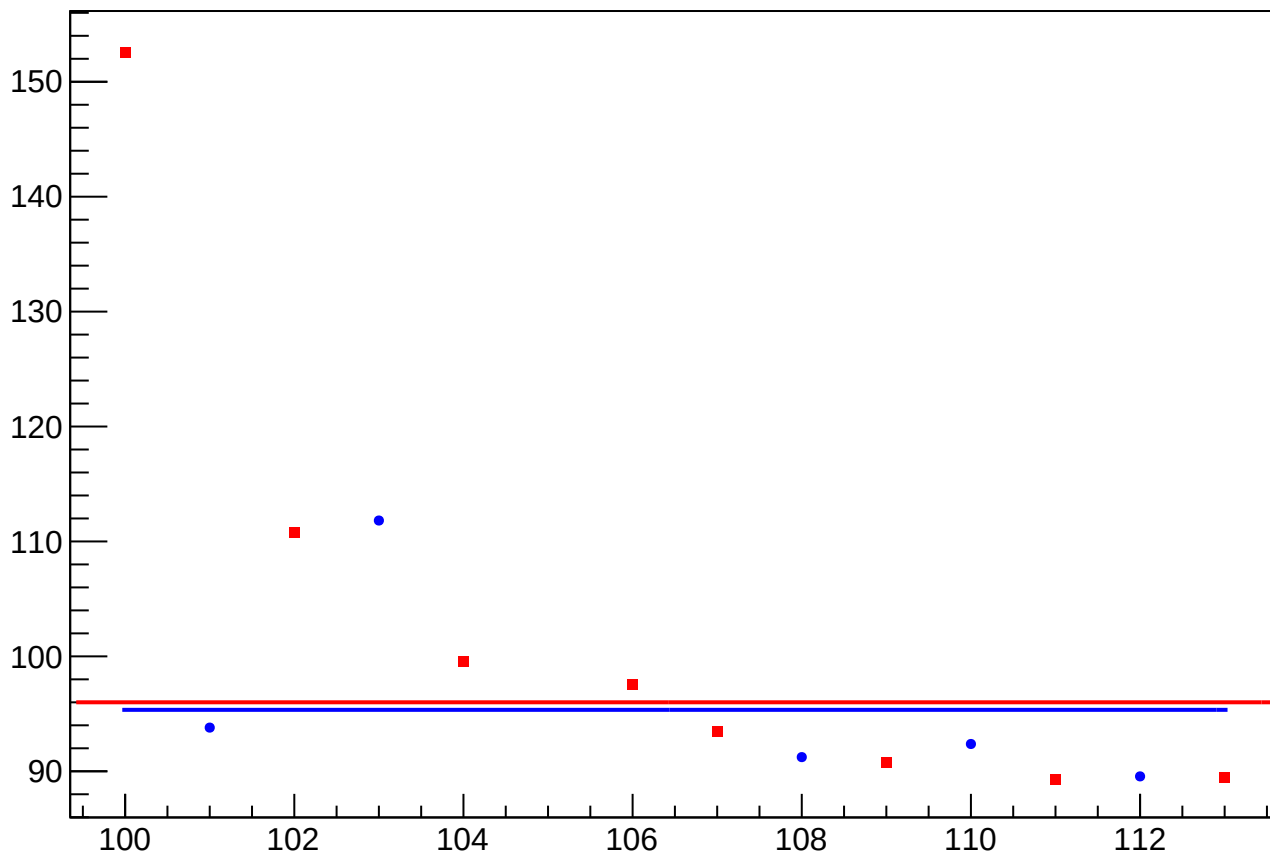
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9.069 $\pm$ 40.313  $\chi^2$ /NDF: 10.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 95.346 $\pm$ 0.043  $\chi^2$ /NDF: 32992.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 96.003 $\pm$ 0.038  $\chi^2$ /NDF: 58445.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

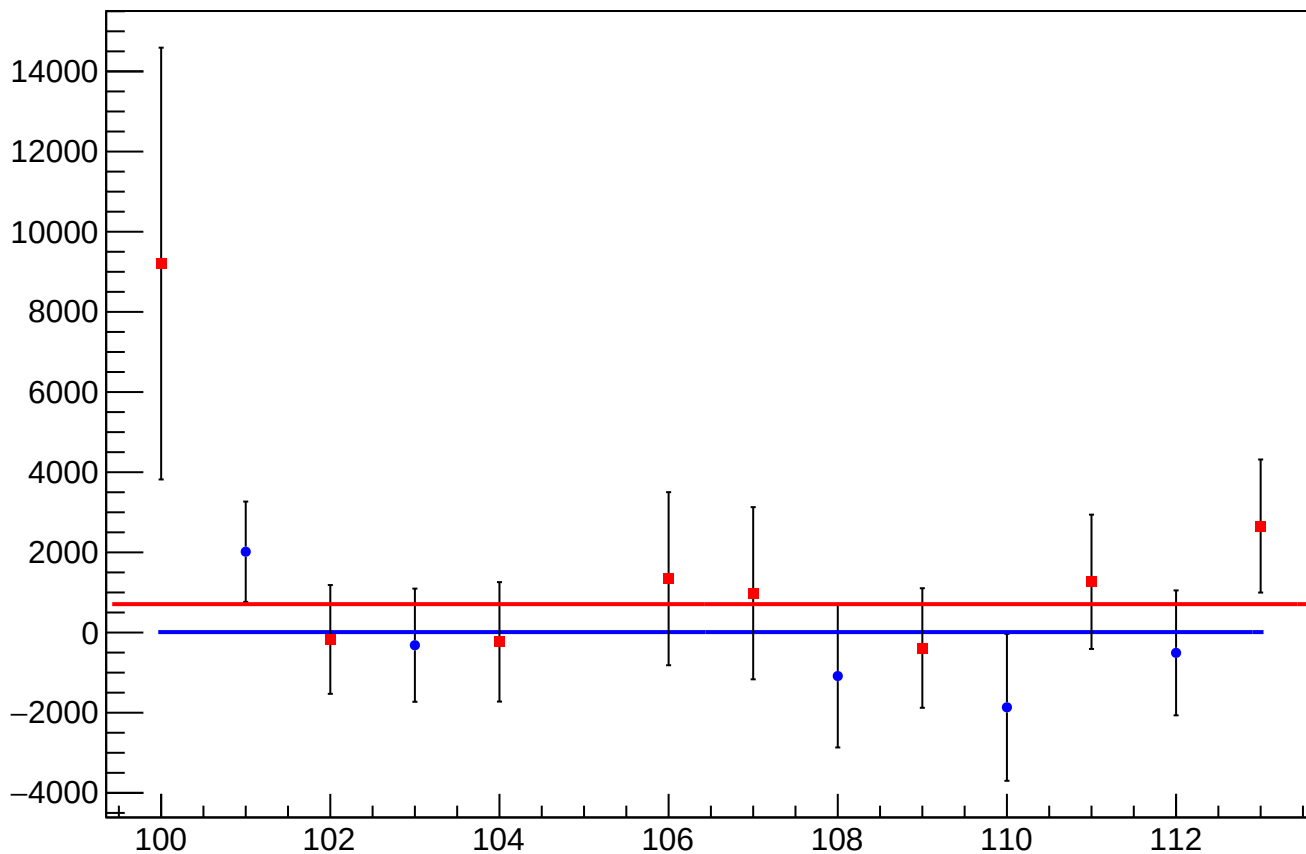
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 95.710 $\pm$ 0.029  $\chi^2$ /NDF: 91568.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_26\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 11.115 $\pm$ 679.708  $\chi^2$ /NDF: 4.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 708.592 $\pm$ 616.881  $\chi^2$ /NDF: 5.4/7

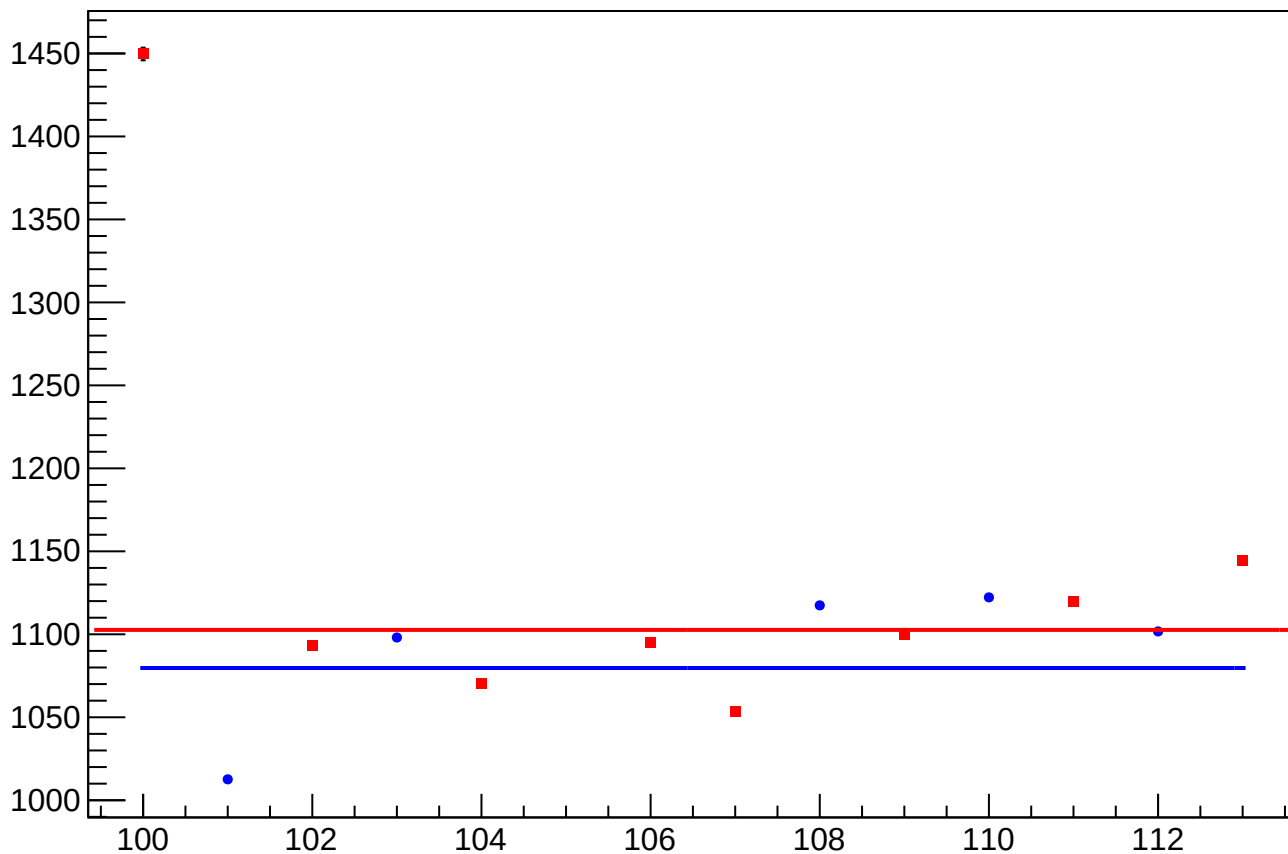
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 393.571 $\pm$ 456.801  $\chi^2$ /NDF: 10.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1079.694 $\pm$ 0.481  $\chi^2$ /NDF: 8463.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1102.648 $\pm$ 0.436  $\chi^2$ /NDF: 11868.4/7

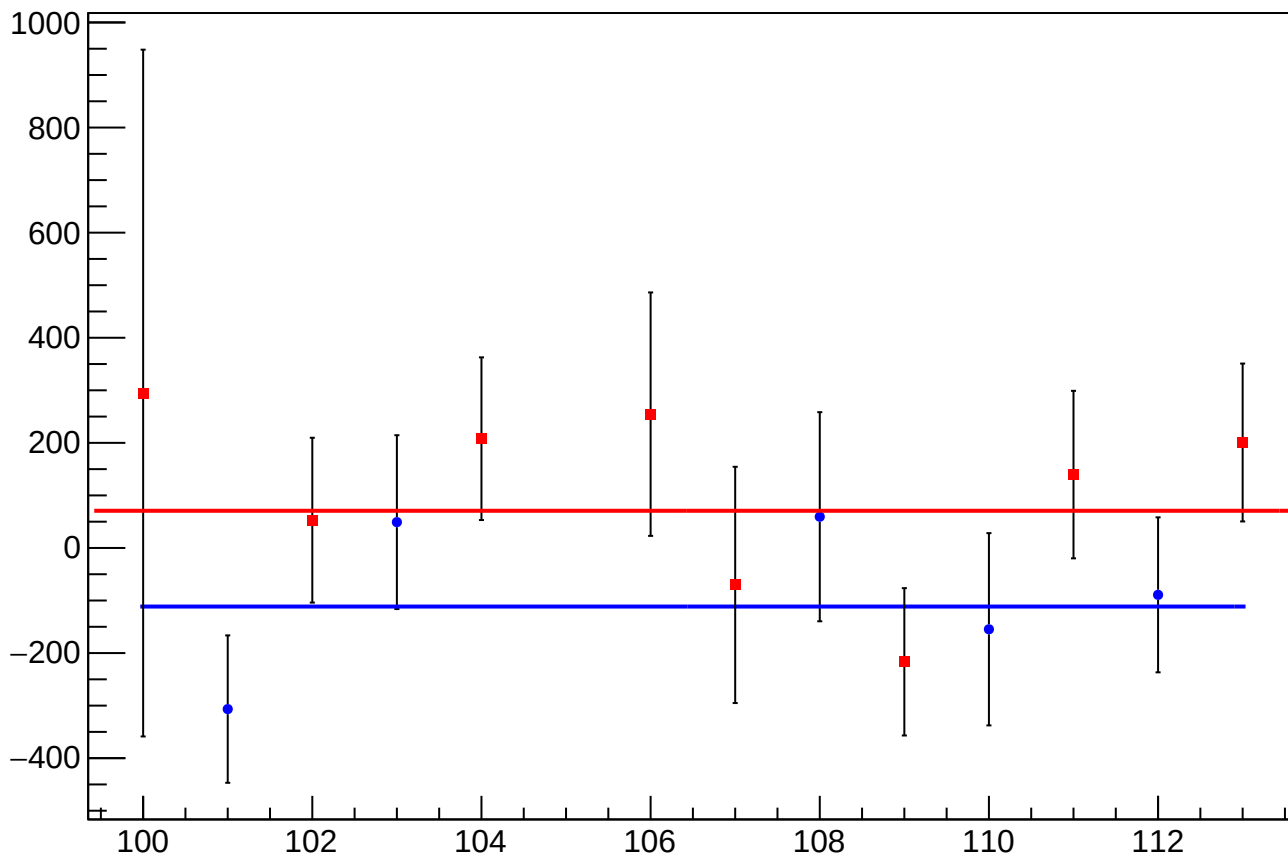
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1092.281 $\pm$ 0.323  $\chi^2$ /NDF: 21582.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: -111.472 $\pm$ 72.833  $\chi^2$ /NDF: 3.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 70.754 $\pm$ 62.287  $\chi^2$ /NDF: 7.1/7

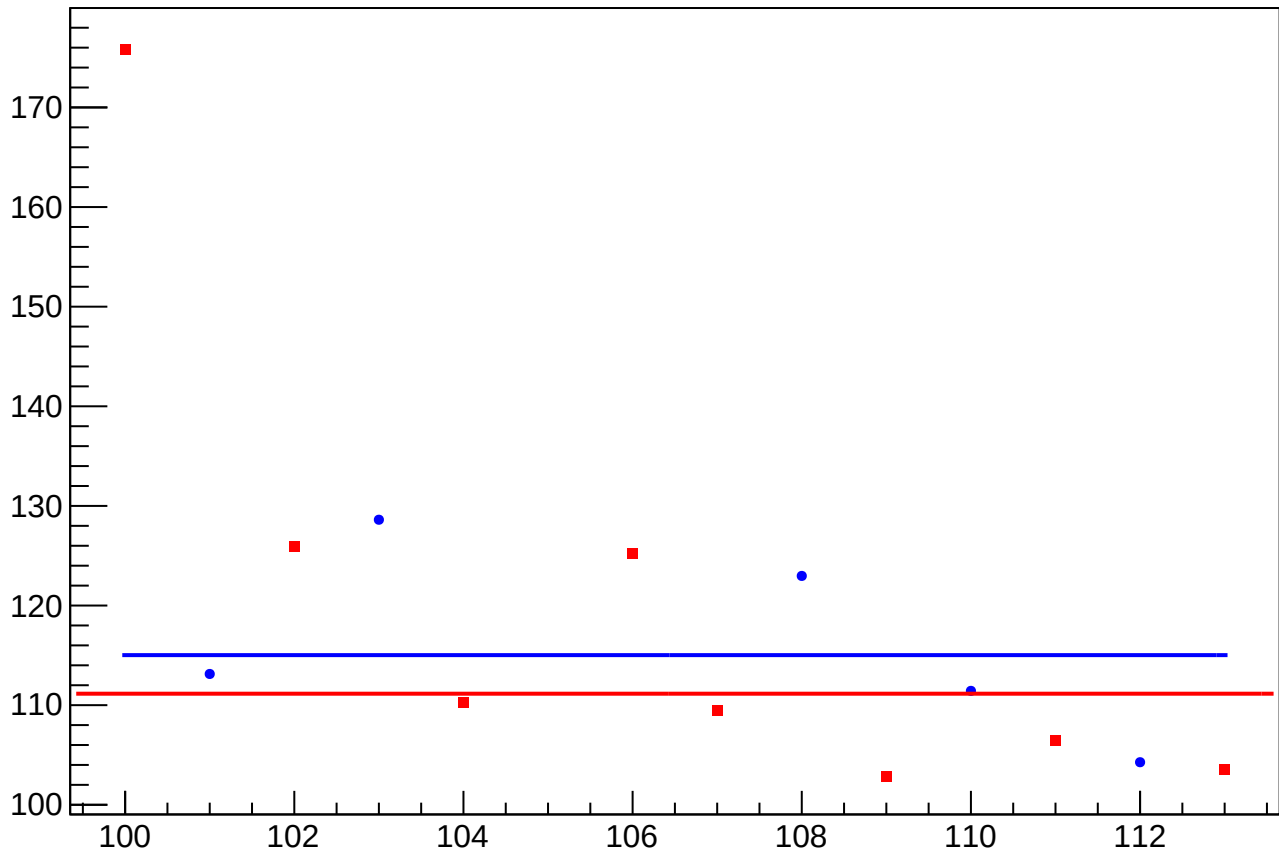
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.222 $\pm$ 47.337  $\chi^2$ /NDF: 14.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 115.023 $\pm$ 0.052  $\chi^2$ /NDF: 28455.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 111.150 $\pm$ 0.044  $\chi^2$ /NDF: 58951.9/7

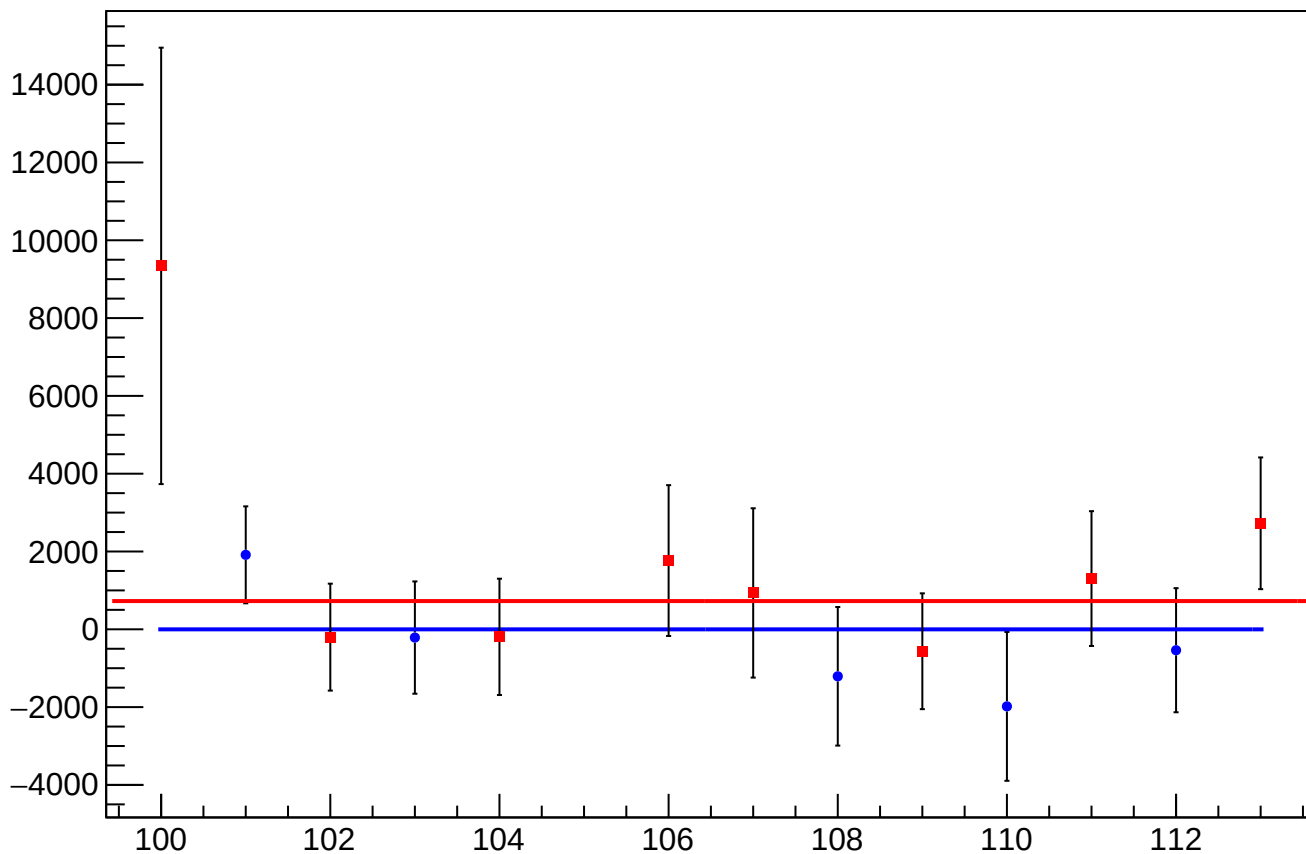
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 112.786 $\pm$ 0.033  $\chi^2$ /NDF: 90672.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_26\_dd\_dit\_correction\_mean vs Slug



Right In: -1.173+/-689.153  $\chi^2/\text{NDF}$ : 4.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 725.930+/-617.875  $\chi^2/\text{NDF}$ : 5.7/7

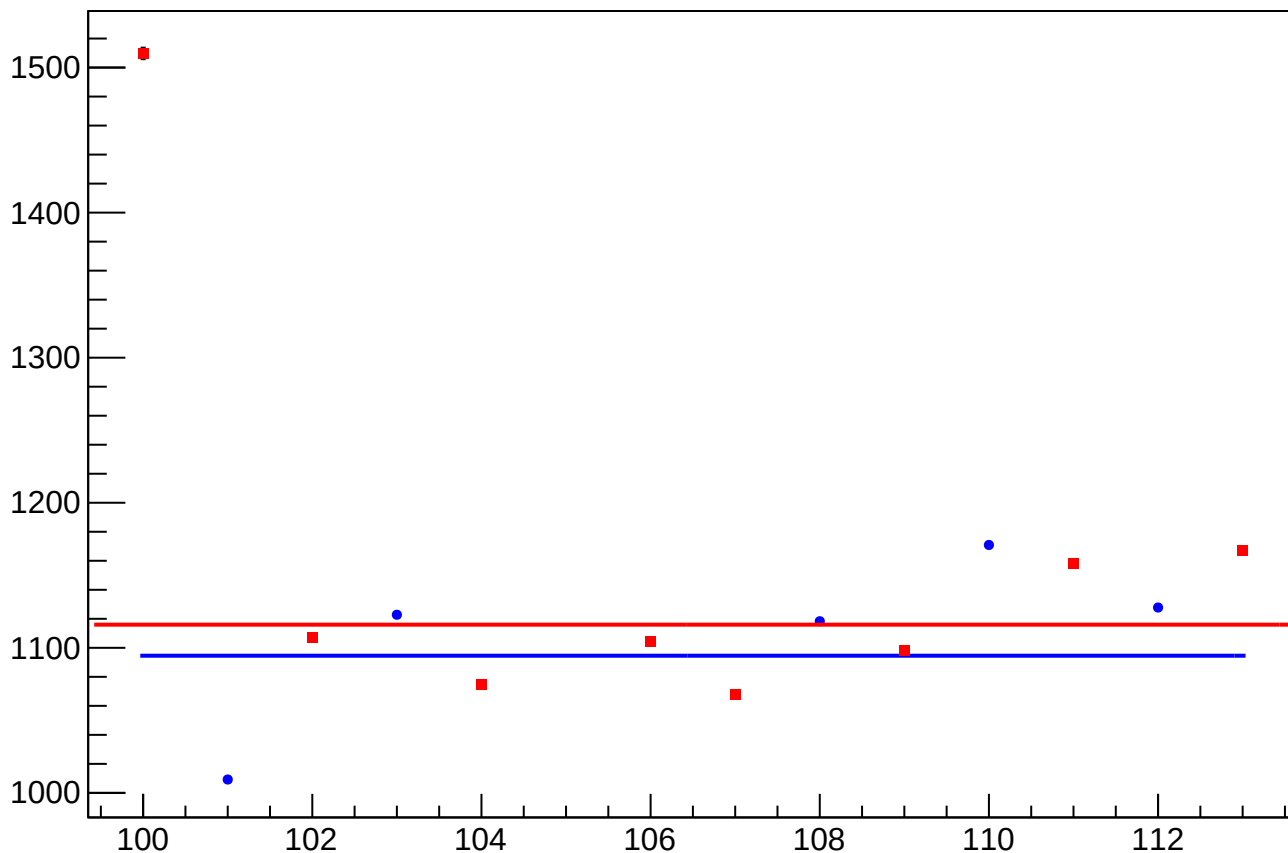
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 401.913+/-460.046  $\chi^2/\text{NDF}$ : 10.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_26\_dd\_dit\_correction\_rms vs Slug



Right In: 1094.555+/-0.487  $\chi^2/\text{NDF}$ : 14556.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1115.959+/-0.437  $\chi^2/\text{NDF}$ : 15806.4/7

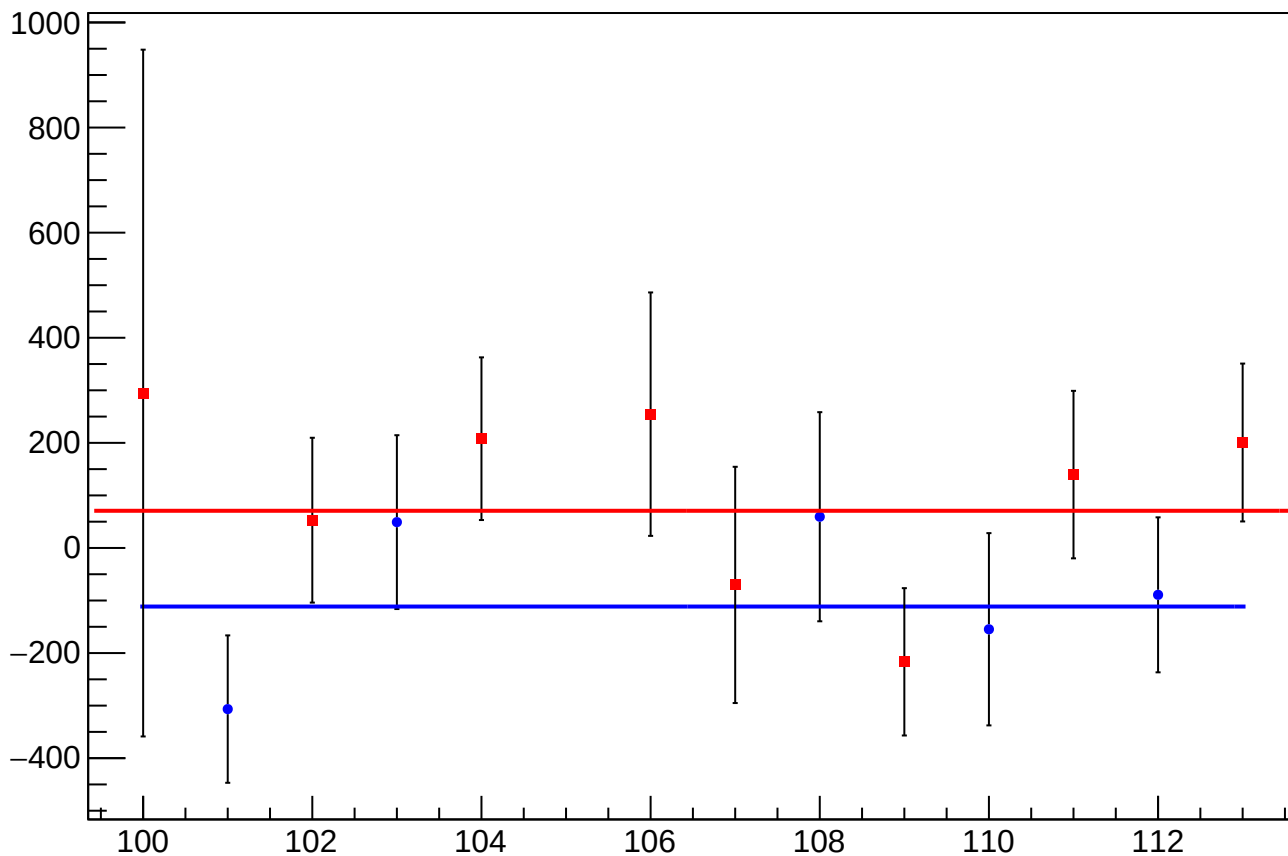
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1106.421+/-0.325  $\chi^2/\text{NDF}$ : 31432.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: -111.468+/-72.833  $\chi^2/\text{NDF}$ : 3.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 70.751+/-62.286  $\chi^2/\text{NDF}$ : 7.1/7

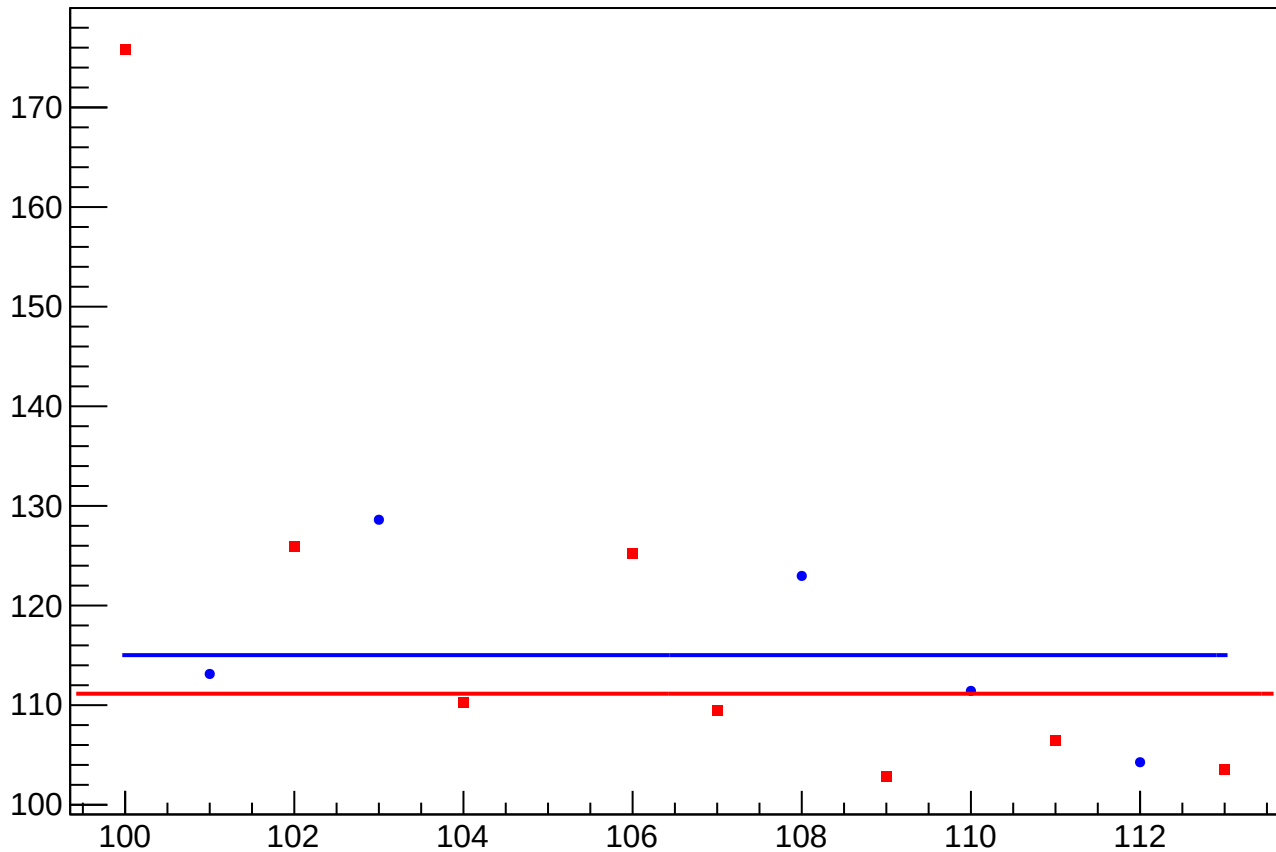
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.222+/-47.337  $\chi^2/\text{NDF}$ : 14.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 115.021 $\pm$ 0.052  $\chi^2$ /NDF: 28459.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 111.150 $\pm$ 0.044  $\chi^2$ /NDF: 58955.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

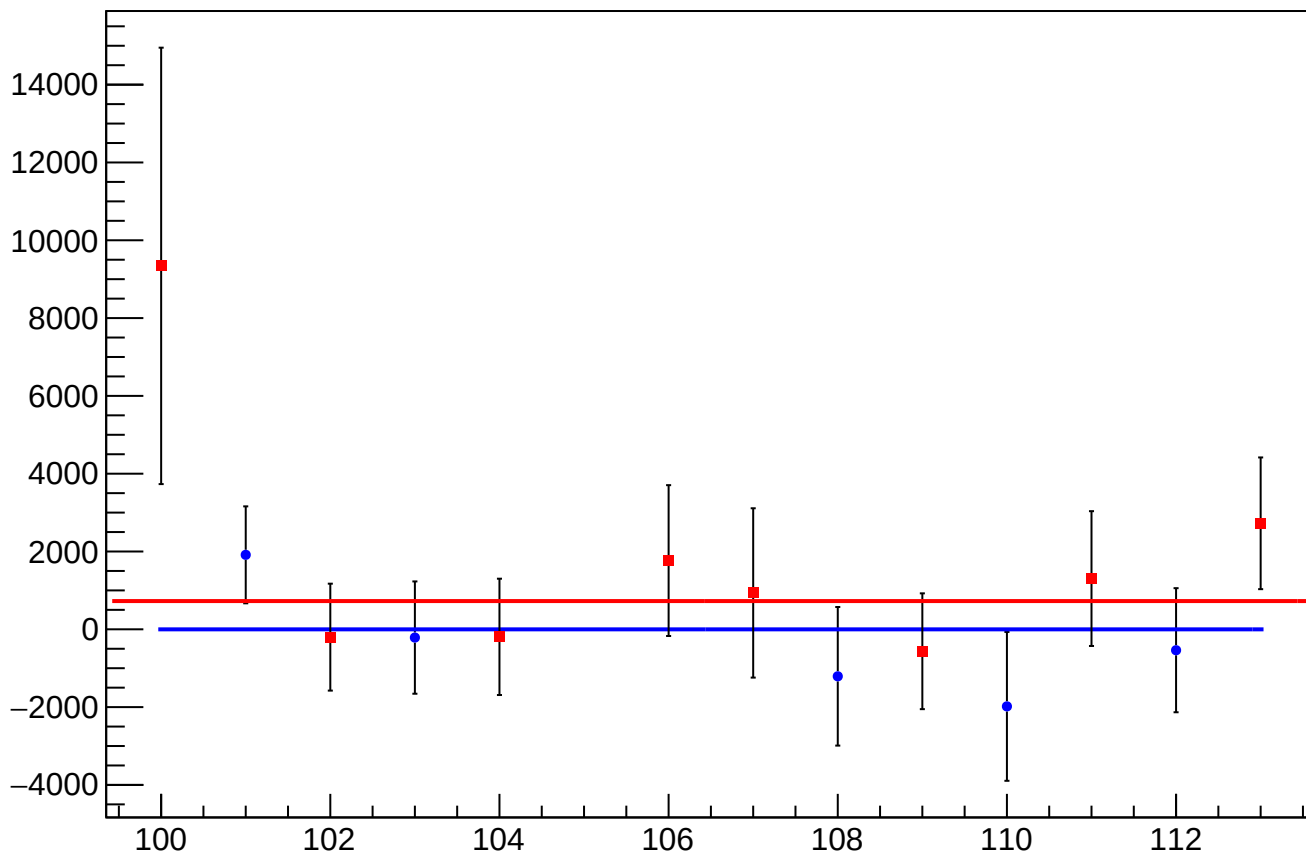
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 112.785 $\pm$ 0.033  $\chi^2$ /NDF: 90679.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_26\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -1.173+/-689.151  $\chi^2/\text{NDF}$ : 4.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 725.928+/-617.873  $\chi^2/\text{NDF}$ : 5.7/7

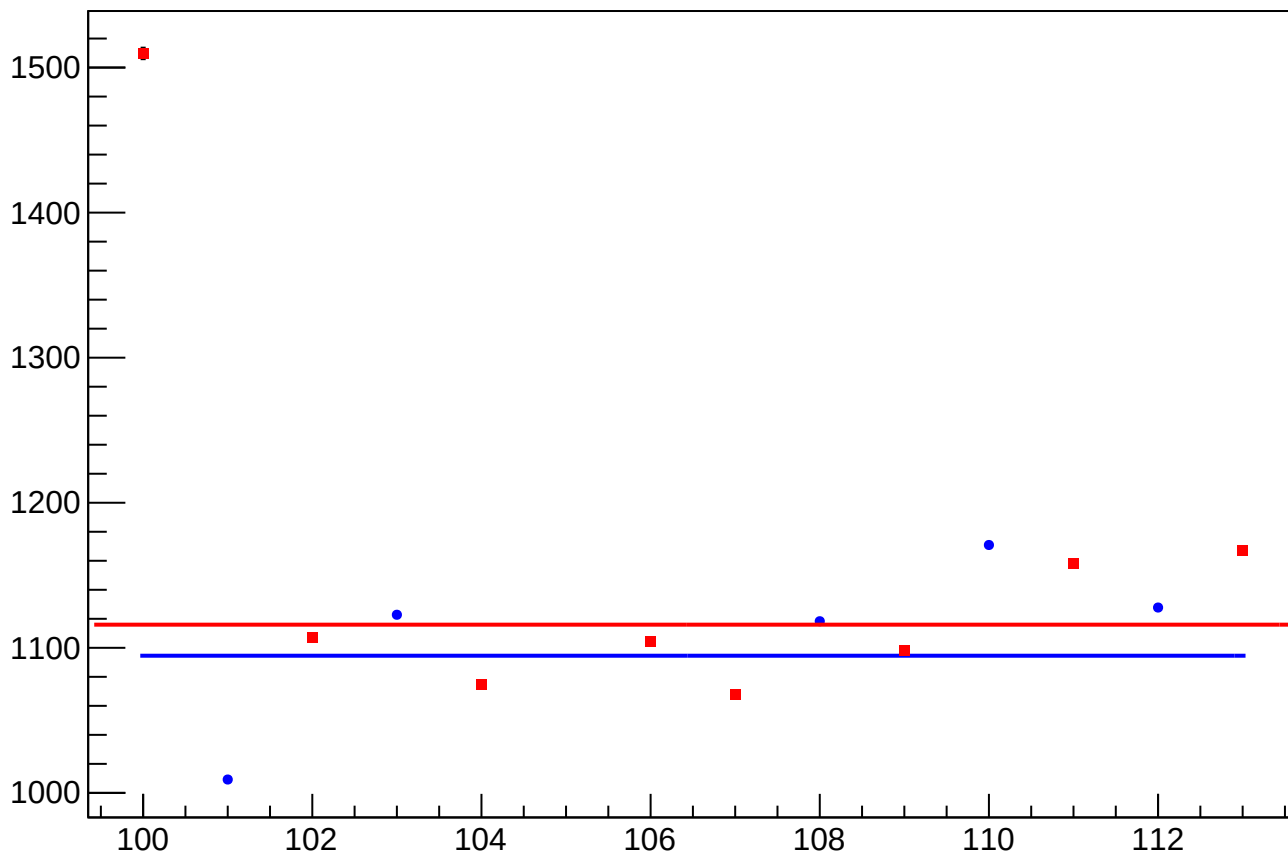
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 401.912+/-460.045  $\chi^2/\text{NDF}$ : 10.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1094.552 $\pm$ 0.487  $\chi^2$ /NDF: 14554.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1115.955 $\pm$ 0.437  $\chi^2$ /NDF: 15805.9/7

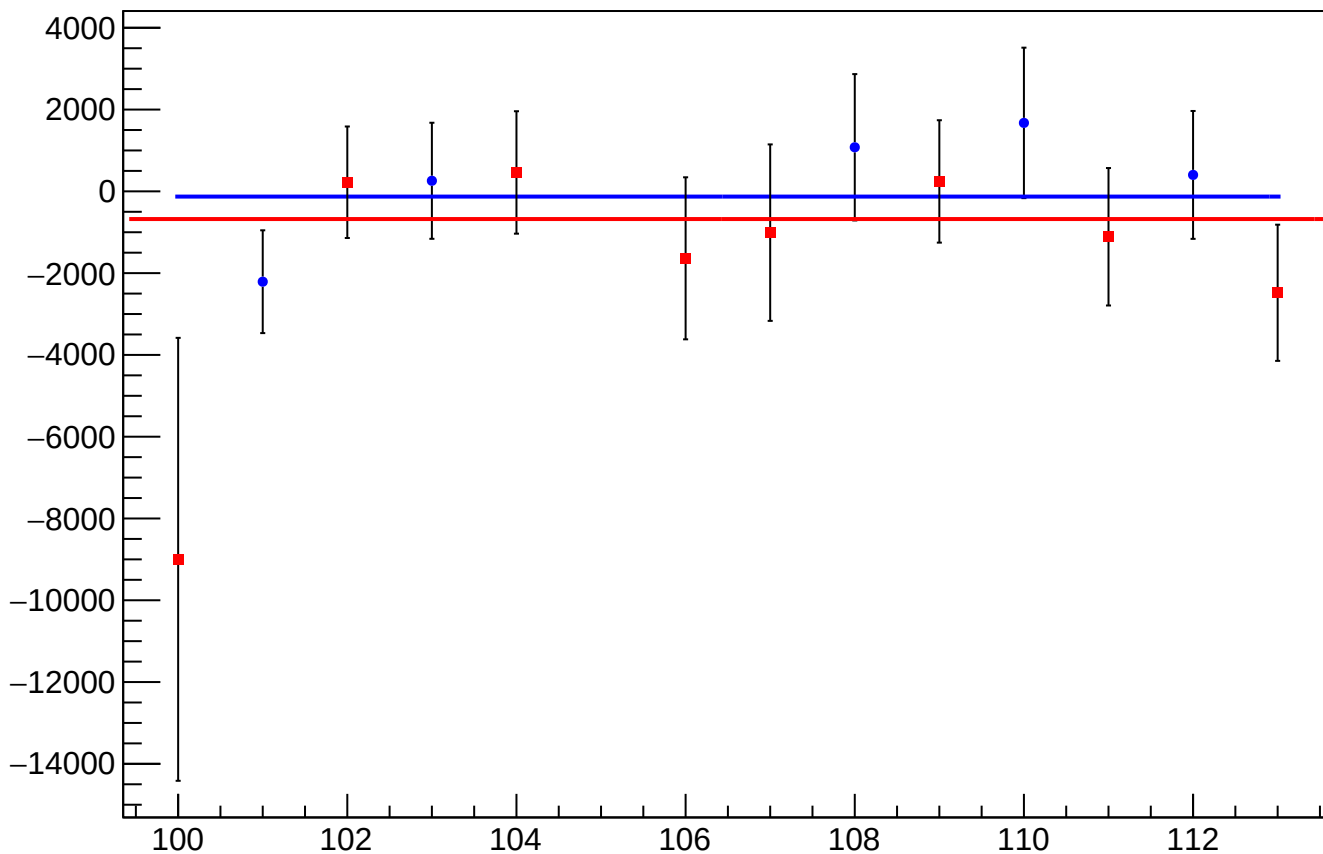
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1106.417 $\pm$ 0.325  $\chi^2$ /NDF: 31430.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: -128.010+/-682.607  $\chi^2/\text{NDF}$ : 4.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -677.340+/-614.426  $\chi^2/\text{NDF}$ : 5.3/7

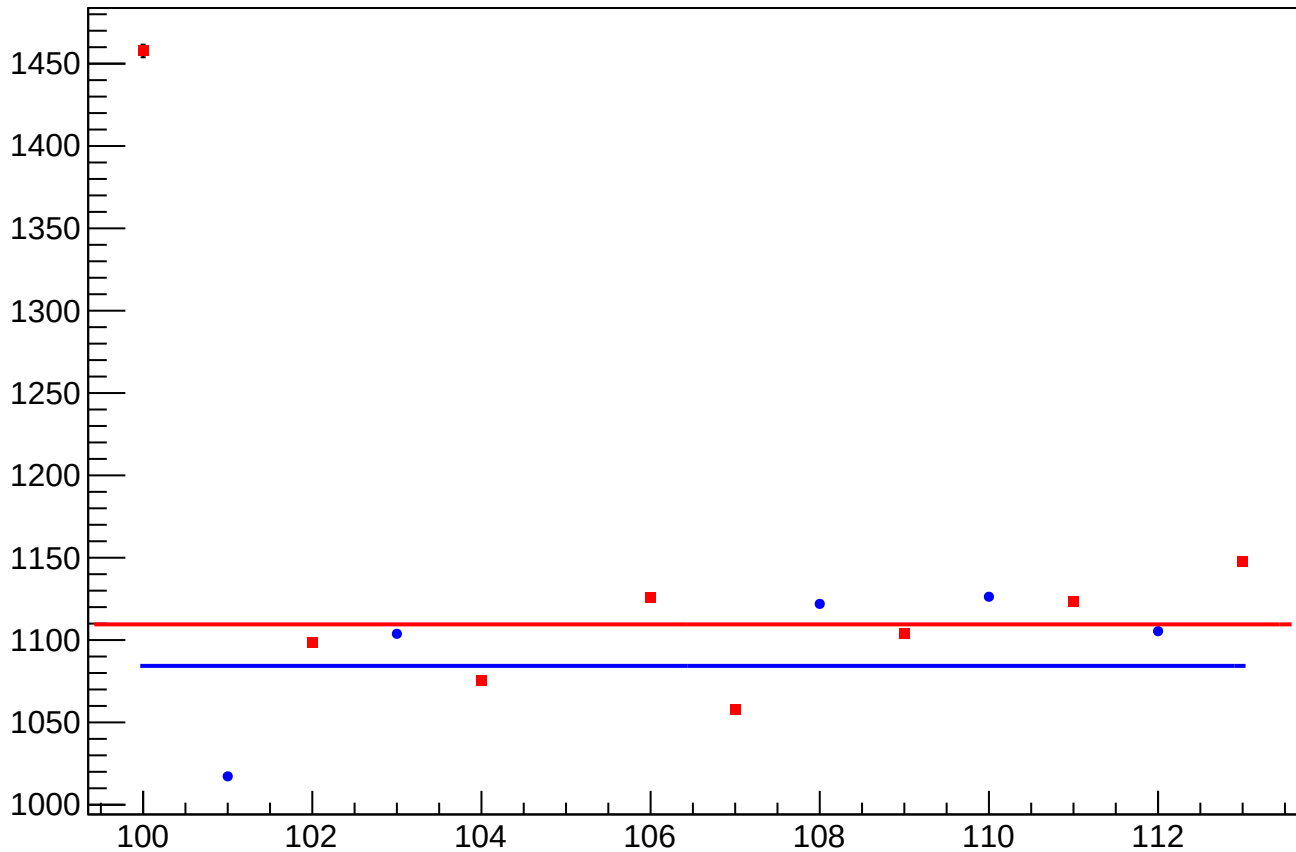
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -431.472+/-456.673  $\chi^2/\text{NDF}$ : 10.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 1084.322 $\pm$ 0.483  $\chi^2$ /NDF: 8360.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1109.525 $\pm$ 0.434  $\chi^2$ /NDF: 11922.8/7

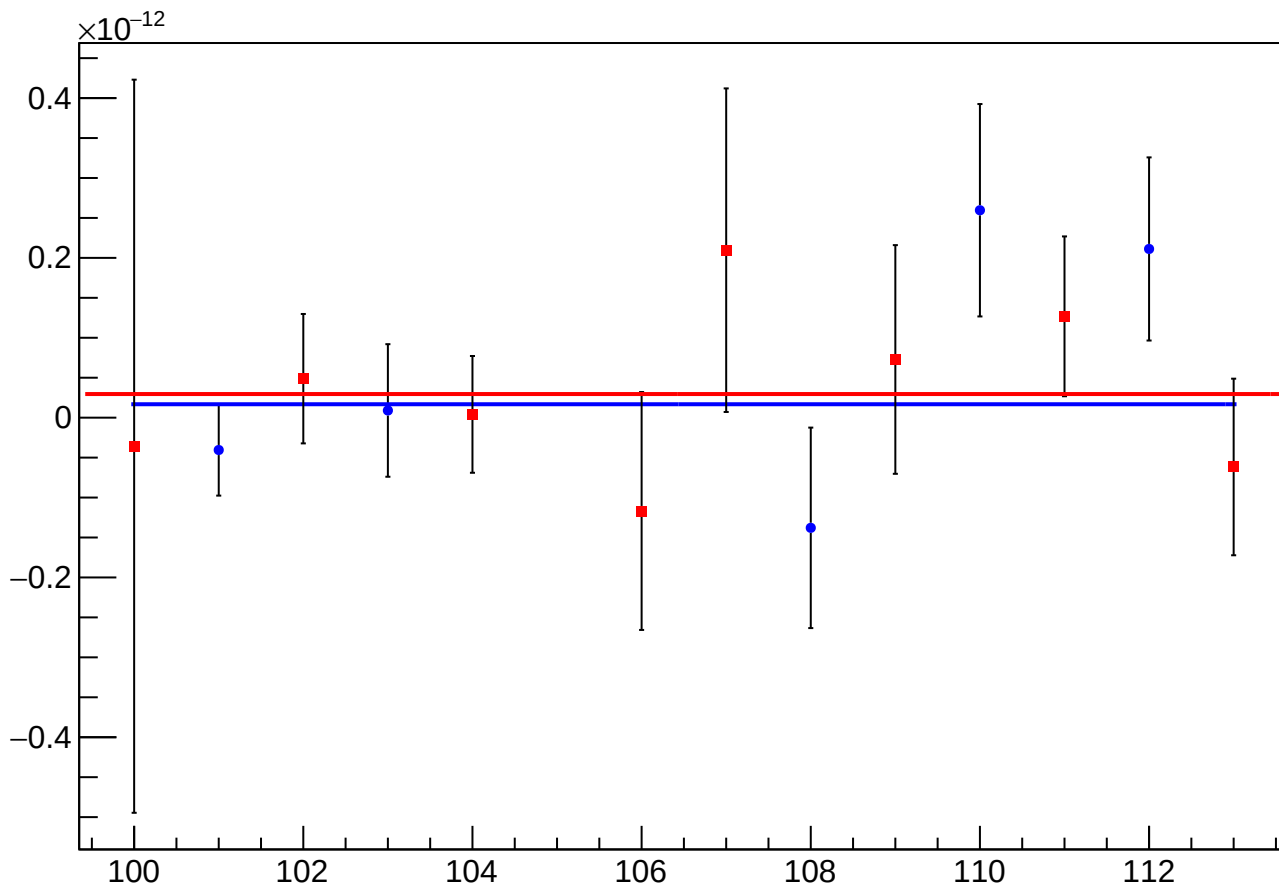
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1098.245 $\pm$ 0.323  $\chi^2$ /NDF: 21789.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.7/7

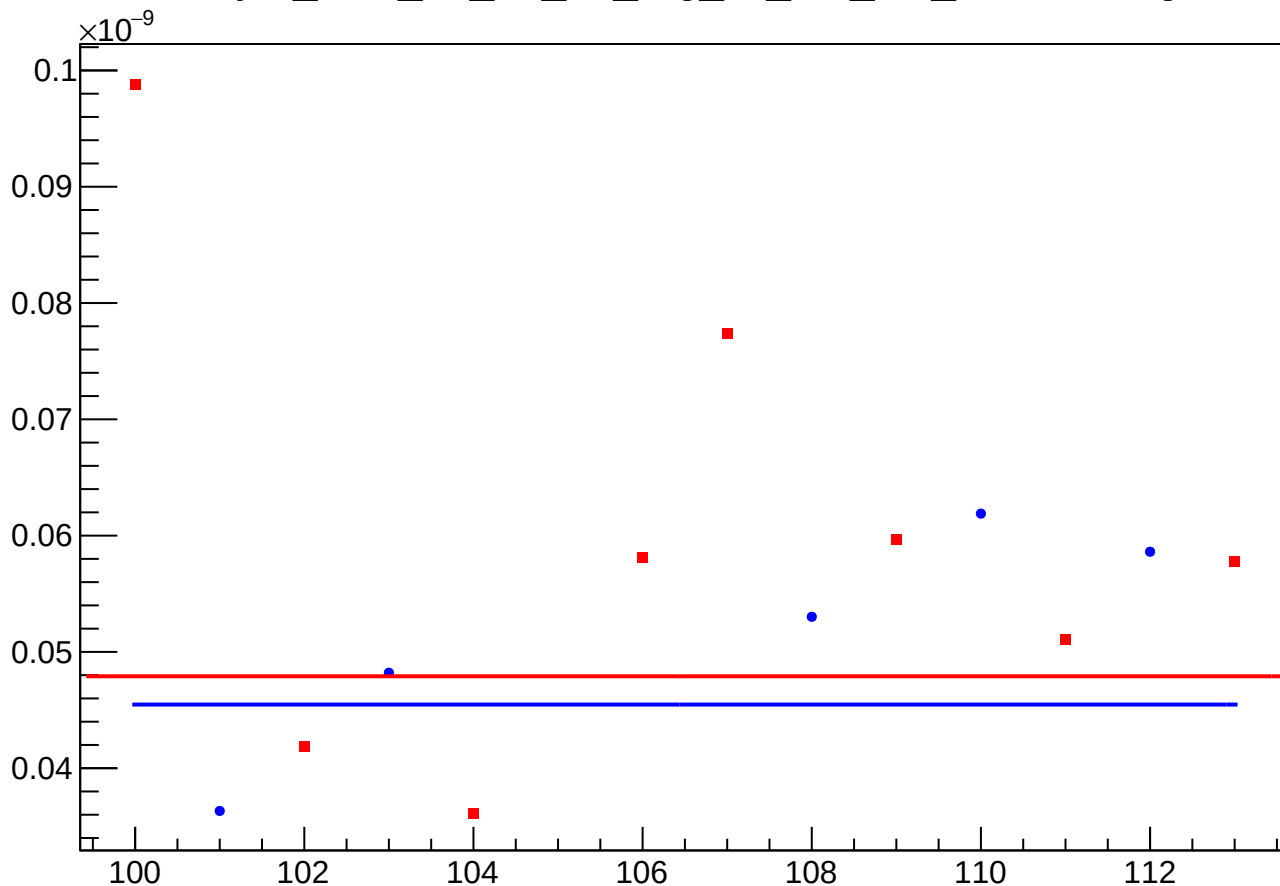
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 117552.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 171071.5/7

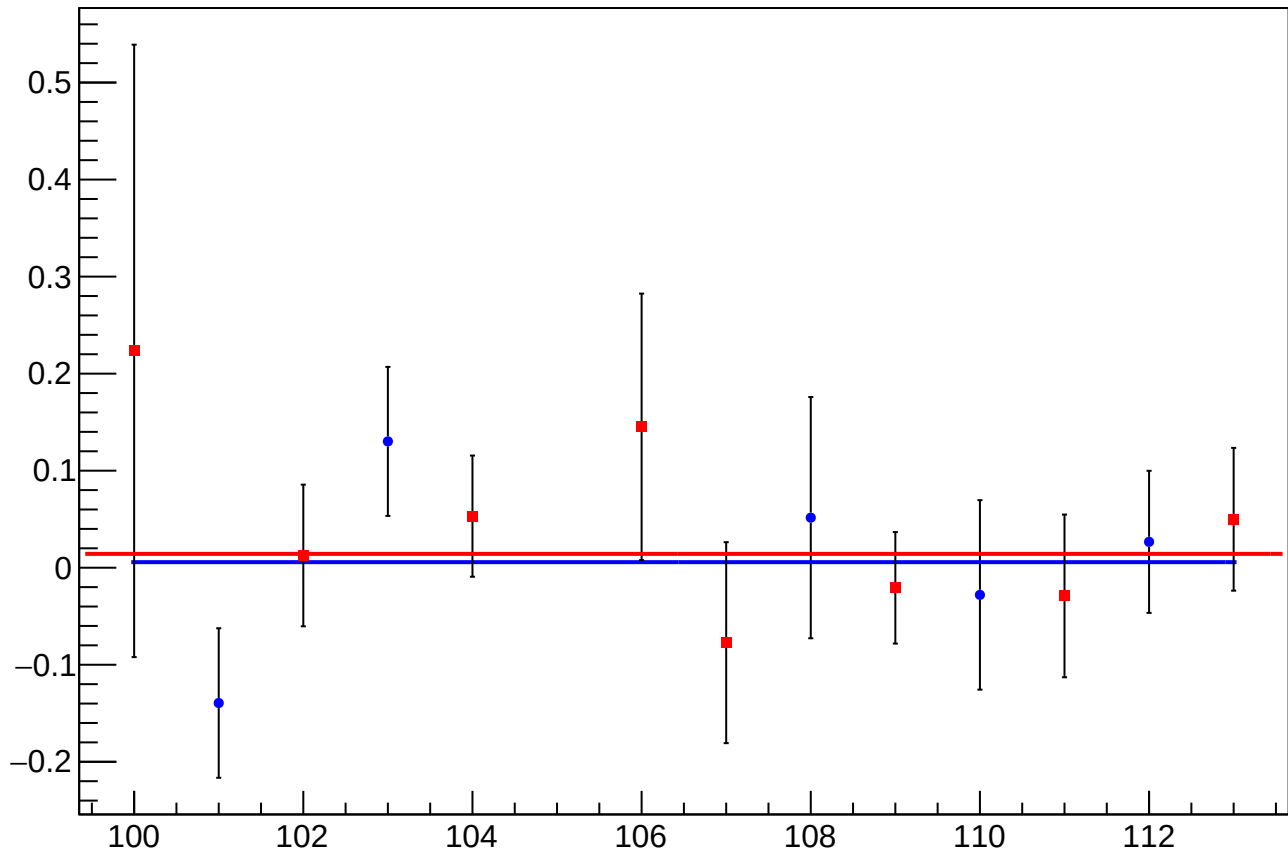
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 292441.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.006 $\pm$ 0.038  $\chi^2$ /NDF: 6.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.029  $\chi^2$ /NDF: 3.4/7

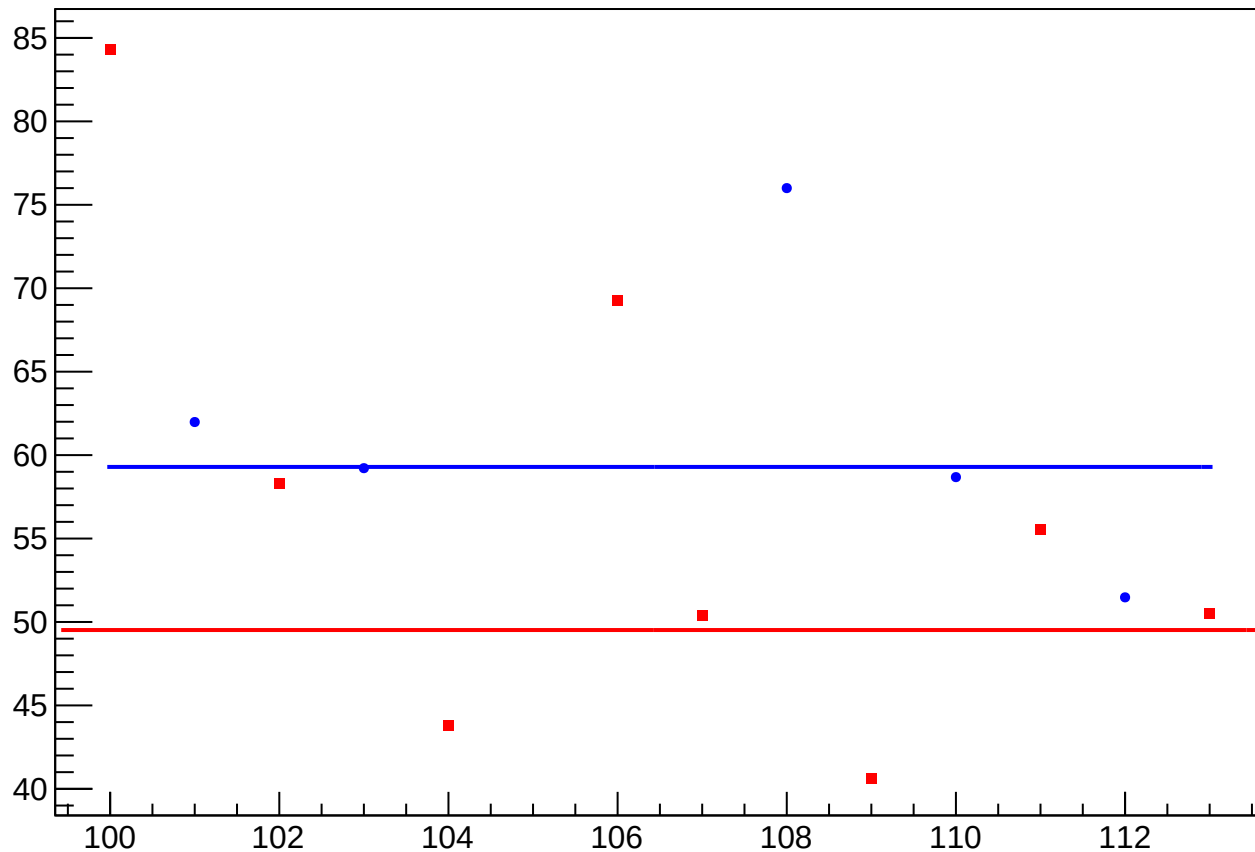
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.023  $\chi^2$ /NDF: 9.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 59.292 $\pm$ 0.027  $\chi^2$ /NDF: 61448.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 49.517 $\pm$ 0.020  $\chi^2$ /NDF: 170059.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

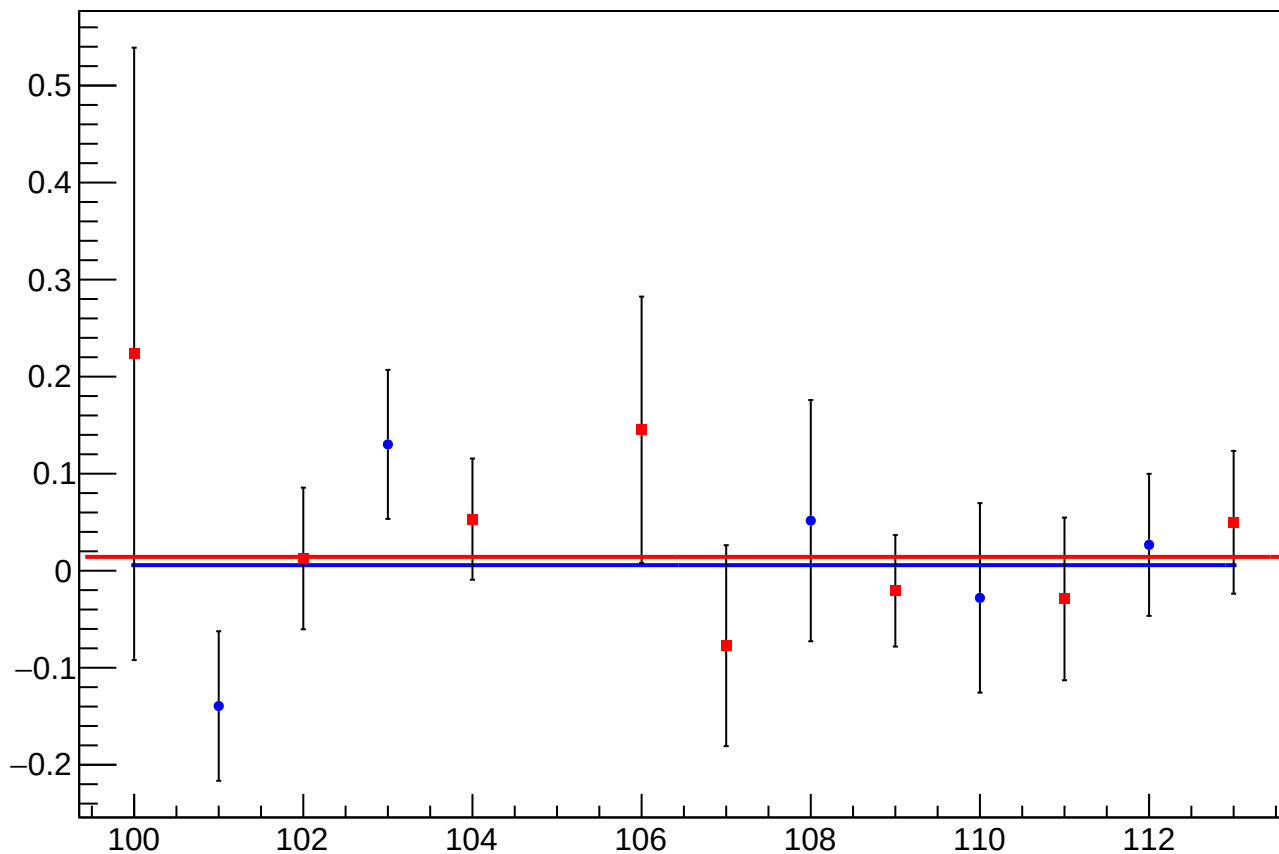
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 53.043 $\pm$ 0.016  $\chi^2$ /NDF: 316312.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.006 $\pm$ 0.038  $\chi^2$ /NDF: 6.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.029  $\chi^2$ /NDF: 3.4/7

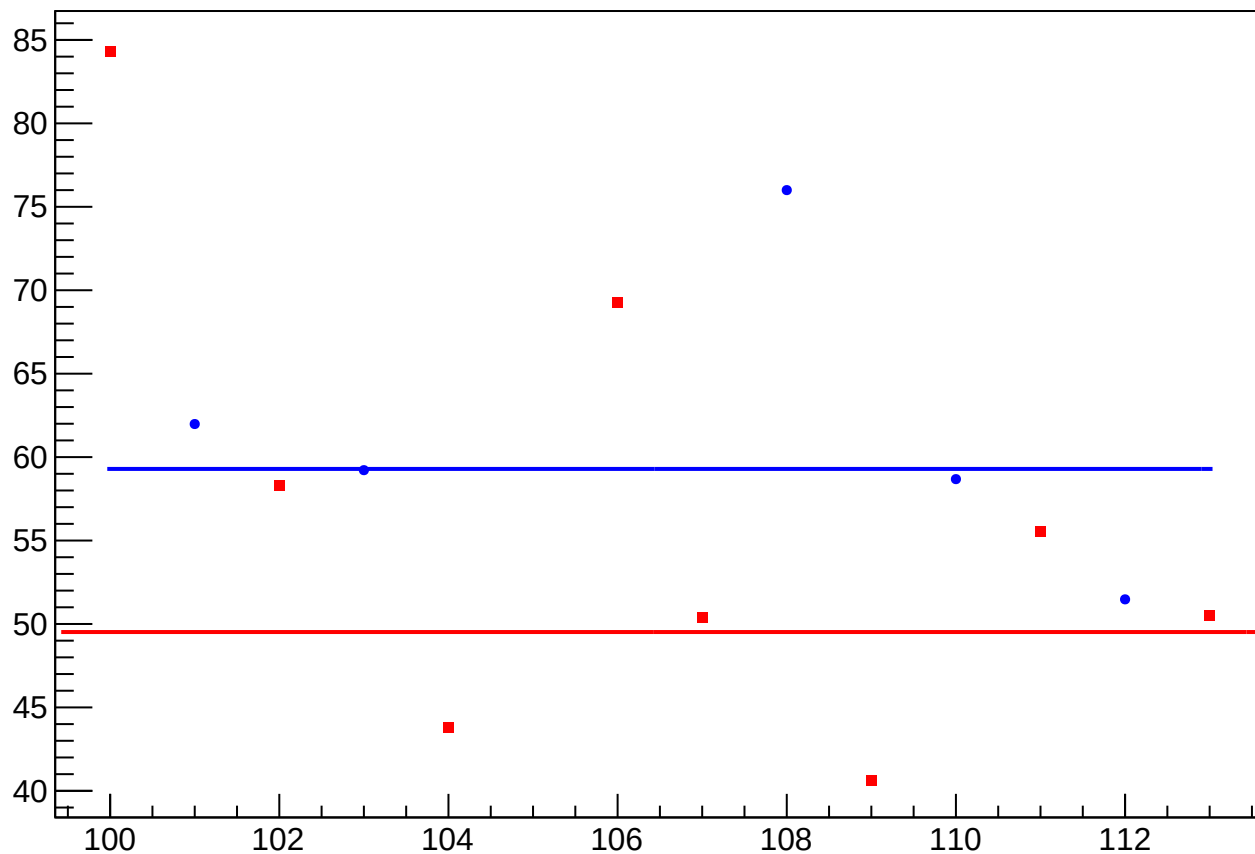
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.023  $\chi^2$ /NDF: 9.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 59.292 $\pm$ 0.027  $\chi^2$ /NDF: 61448.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 49.517 $\pm$ 0.020  $\chi^2$ /NDF: 170059.2/7

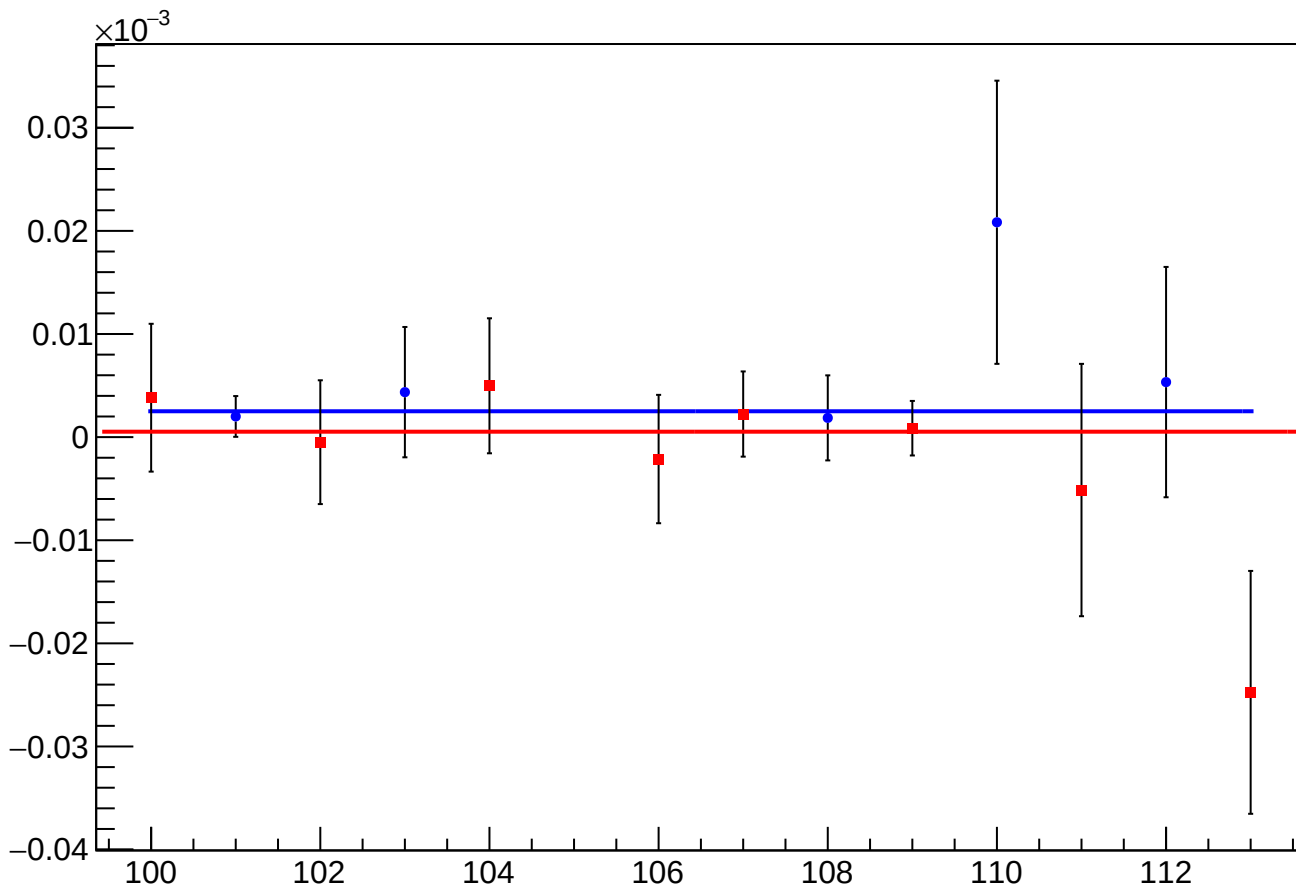
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 53.043 $\pm$ 0.016  $\chi^2$ /NDF: 316312.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.9/7

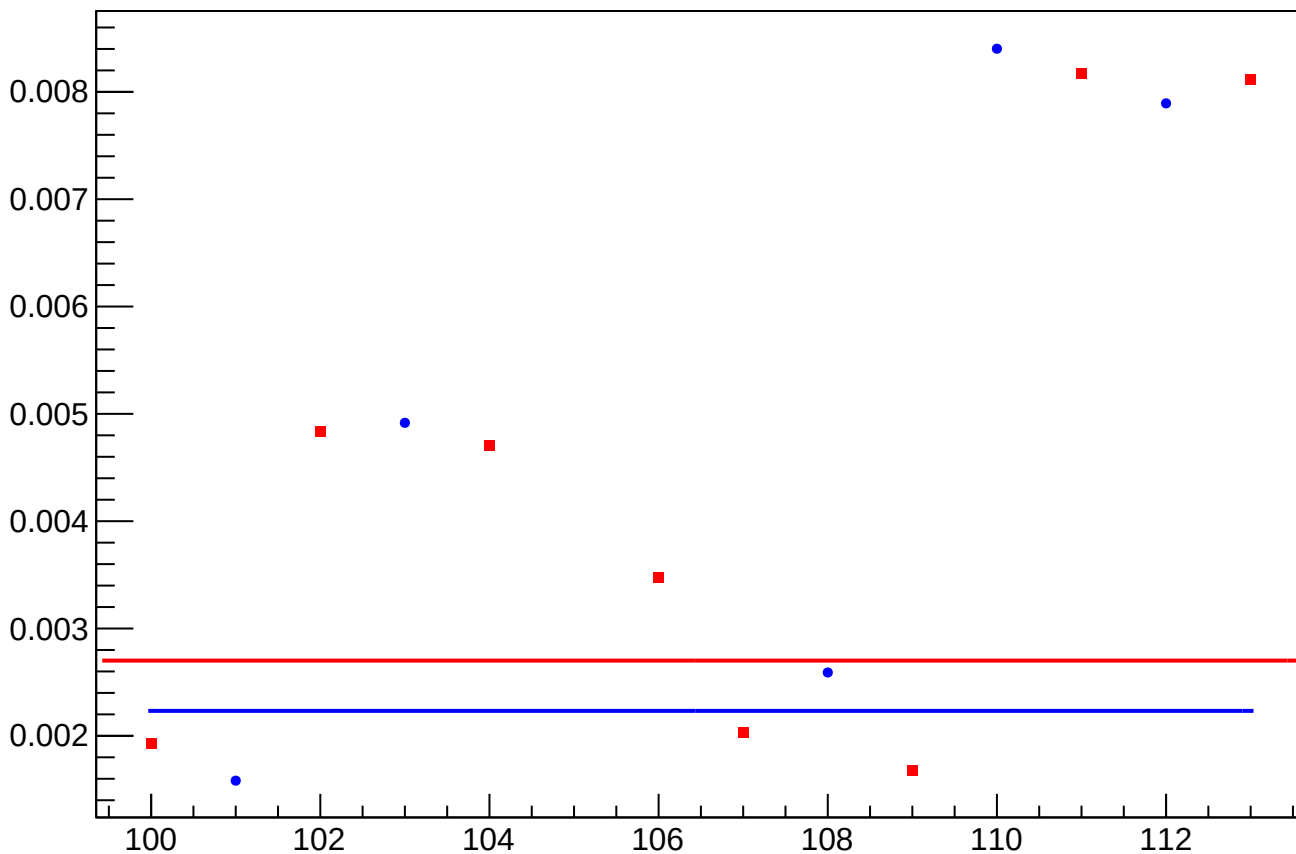
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1509538.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1670857.5/7

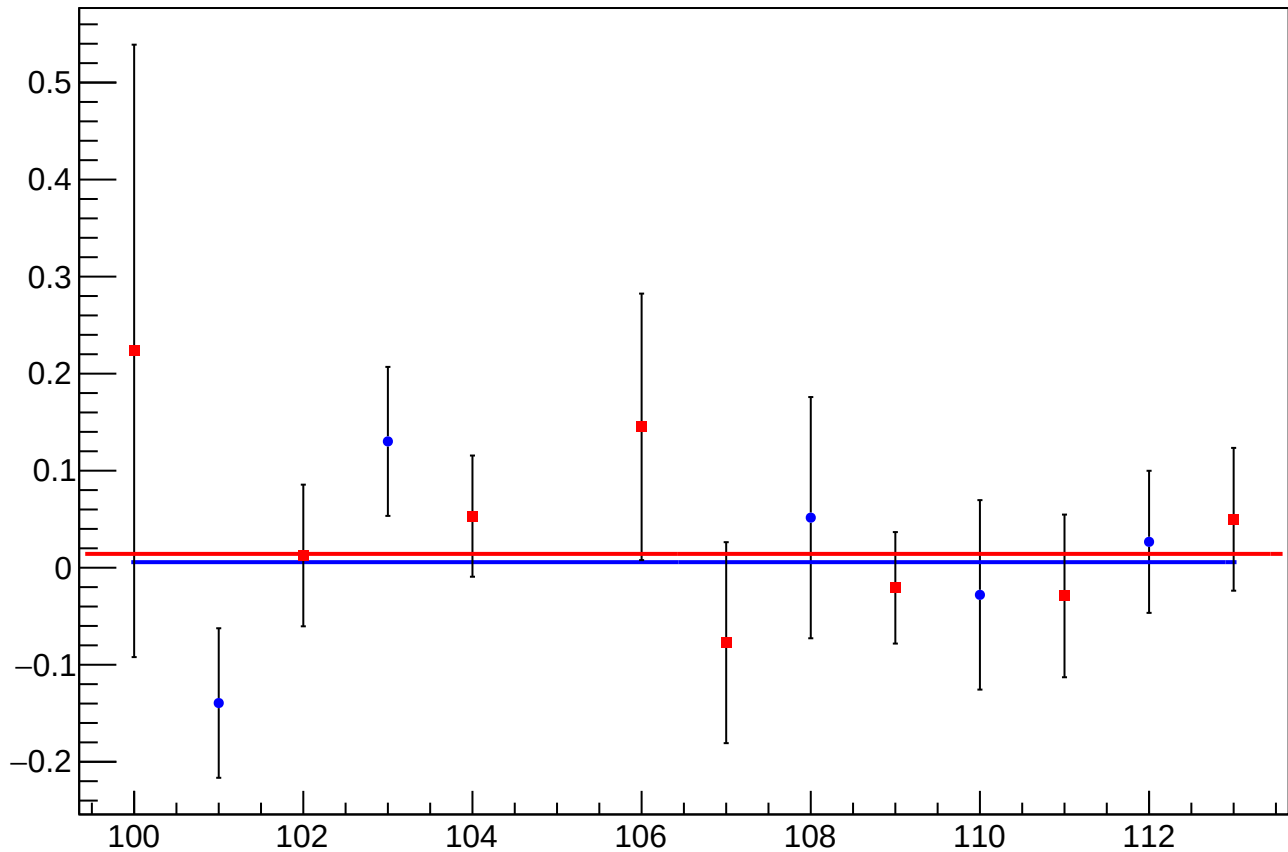
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3253081.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.006 $\pm$ 0.038  $\chi^2$ /NDF: 6.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.029  $\chi^2$ /NDF: 3.4/7

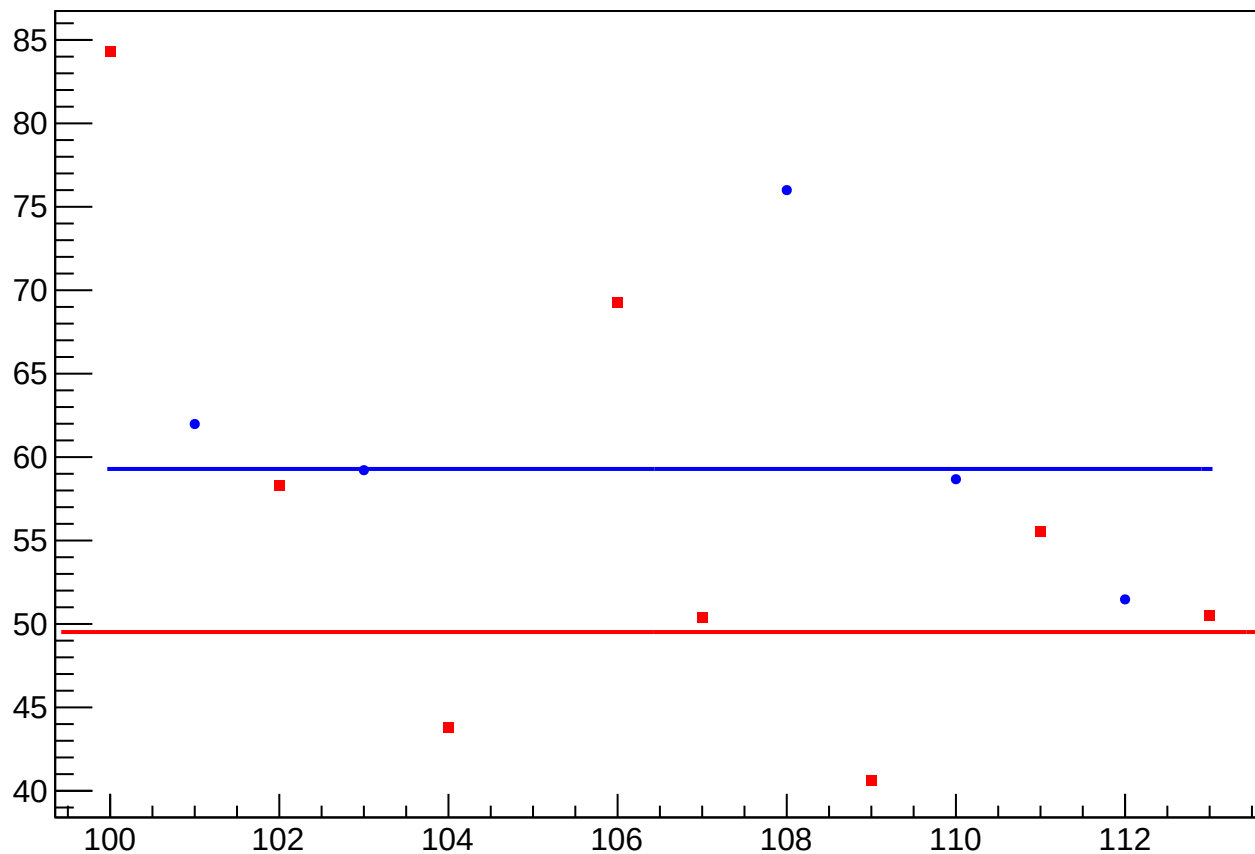
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.023  $\chi^2$ /NDF: 9.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 59.290 $\pm$ 0.027  $\chi^2$ /NDF: 61469.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 49.516 $\pm$ 0.020  $\chi^2$ /NDF: 170049.6/7

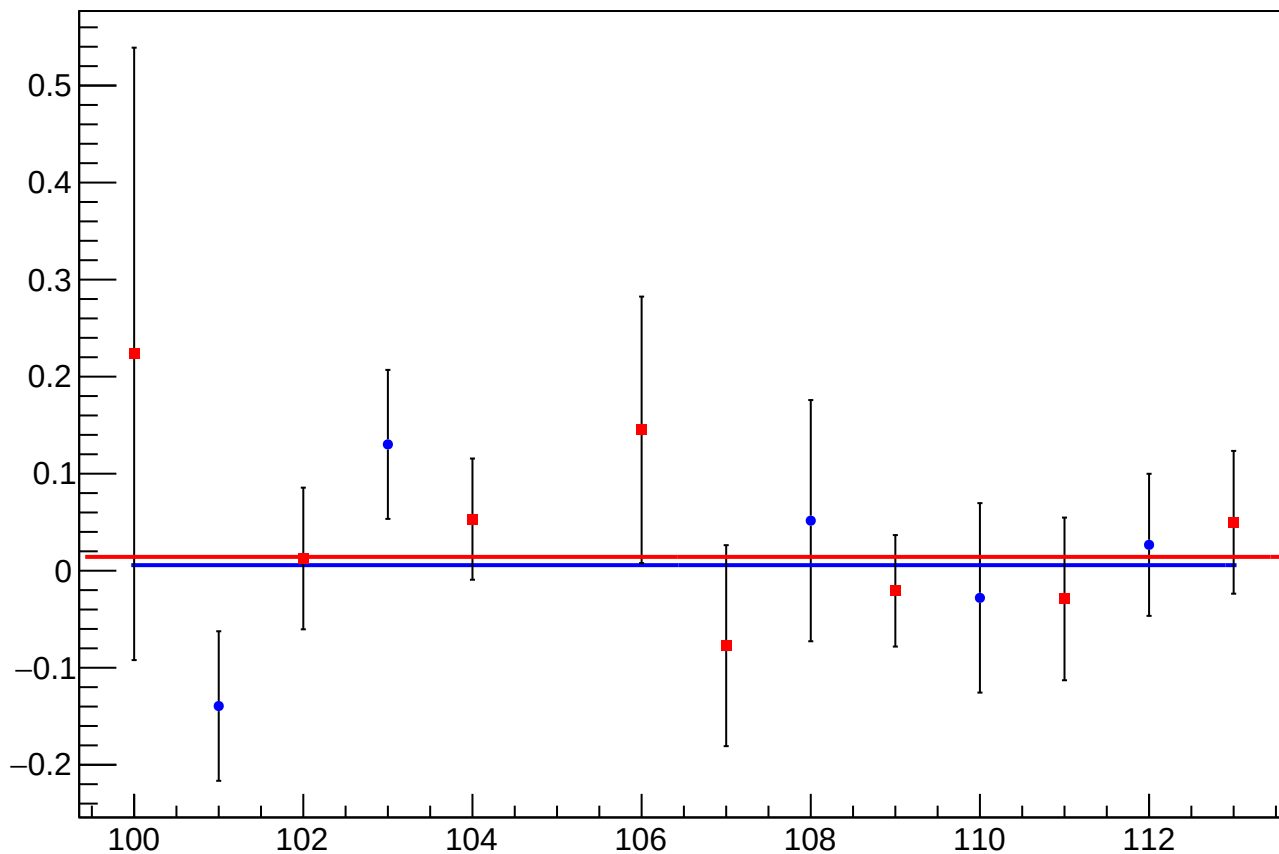
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 53.042 $\pm$ 0.016  $\chi^2$ /NDF: 316315.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.006 $\pm$ 0.038  $\chi^2$ /NDF: 6.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.029  $\chi^2$ /NDF: 3.4/7

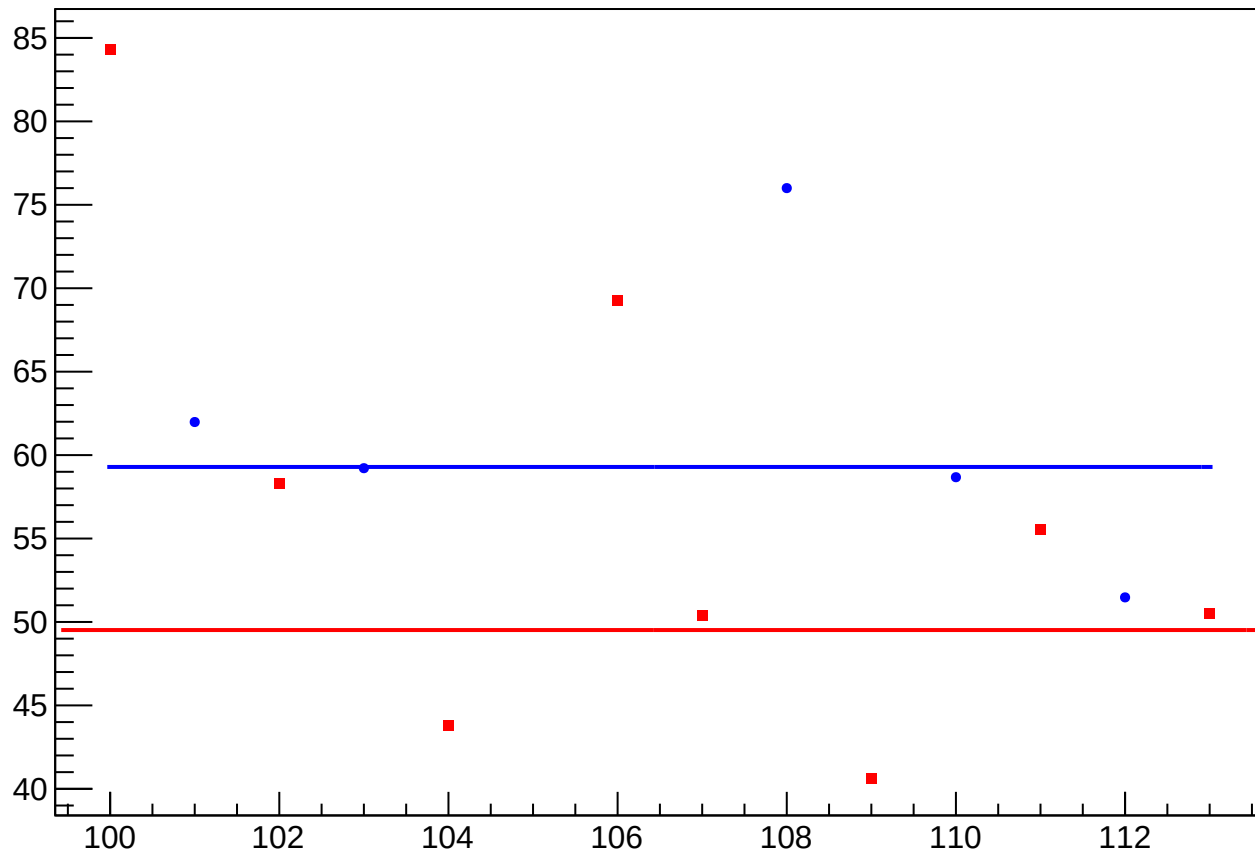
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.023  $\chi^2$ /NDF: 9.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 59.290 $\pm$ 0.027  $\chi^2$ /NDF: 61469.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 49.516 $\pm$ 0.020  $\chi^2$ /NDF: 170049.6/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

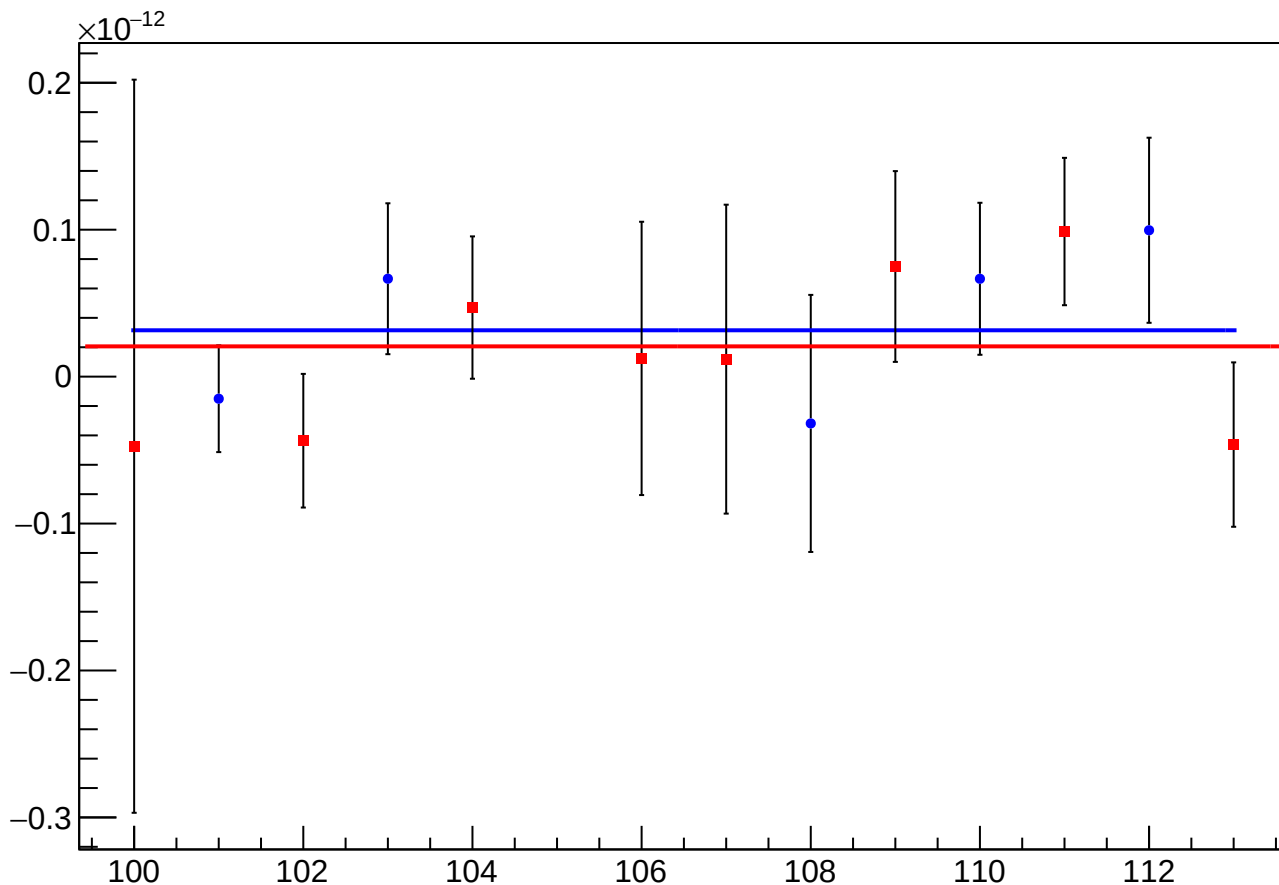
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 53.042 $\pm$ 0.016  $\chi^2$ /NDF: 316315.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.9/7

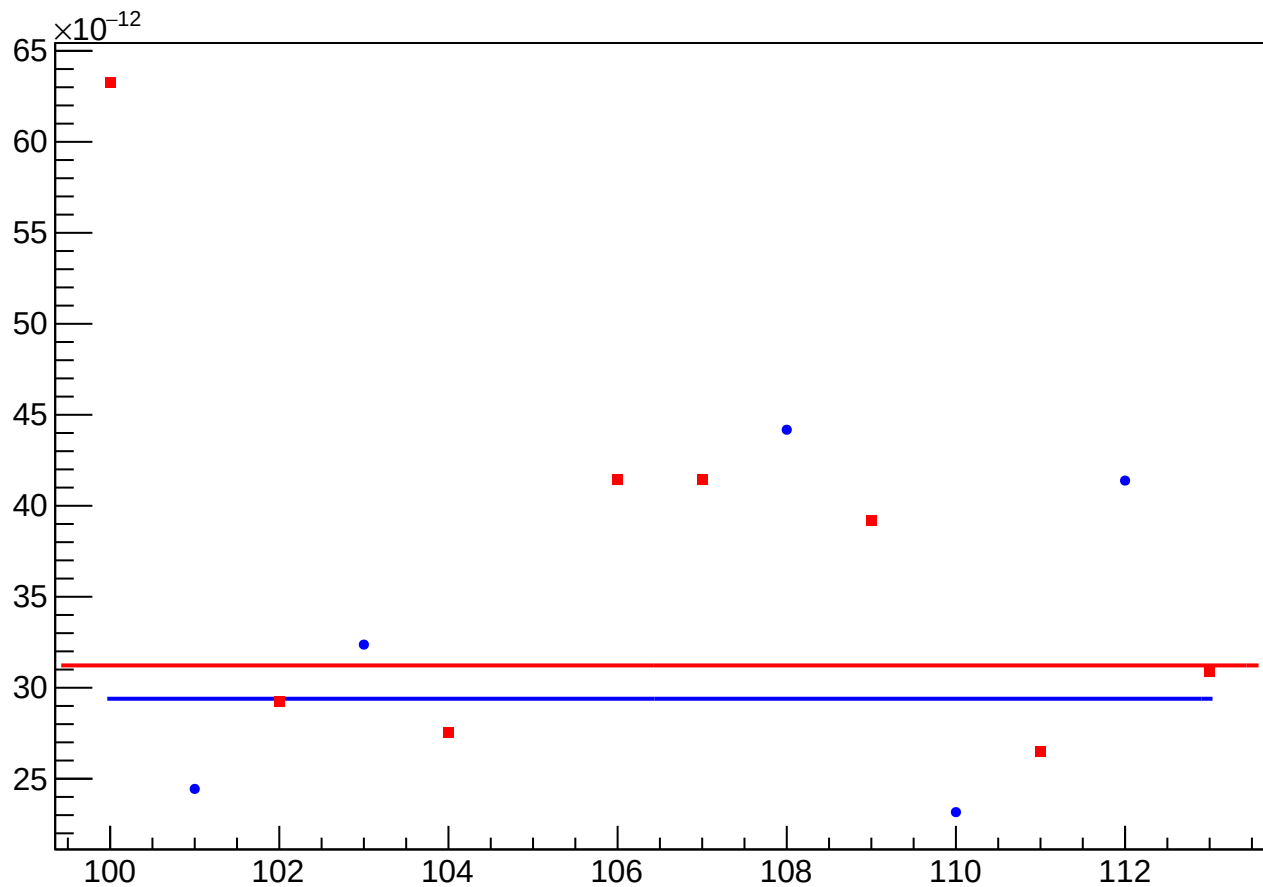
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 202503.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 139227.6/7

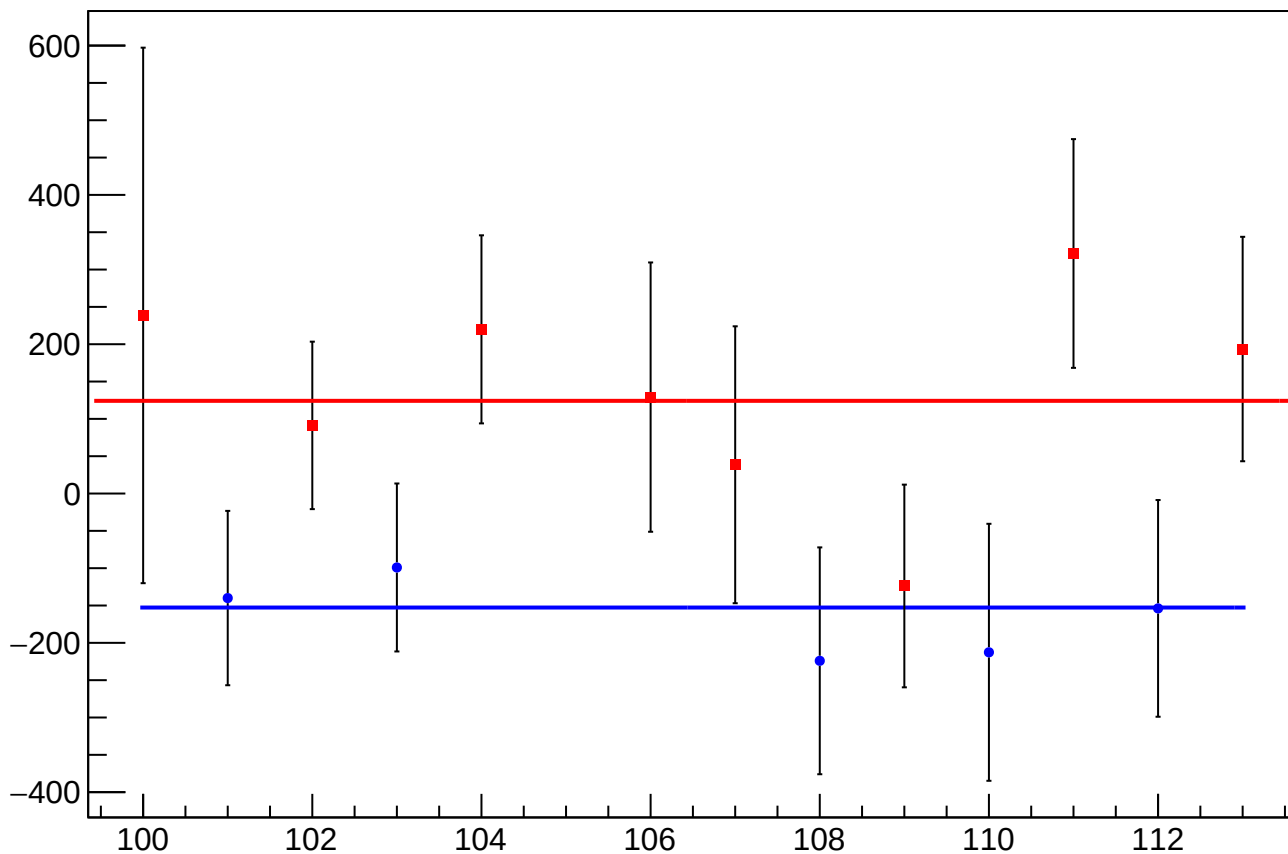
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 348388.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: -152.702 $\pm$ 60.094  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 124.153 $\pm$ 53.356  $\chi^2$ /NDF: 6.2/7

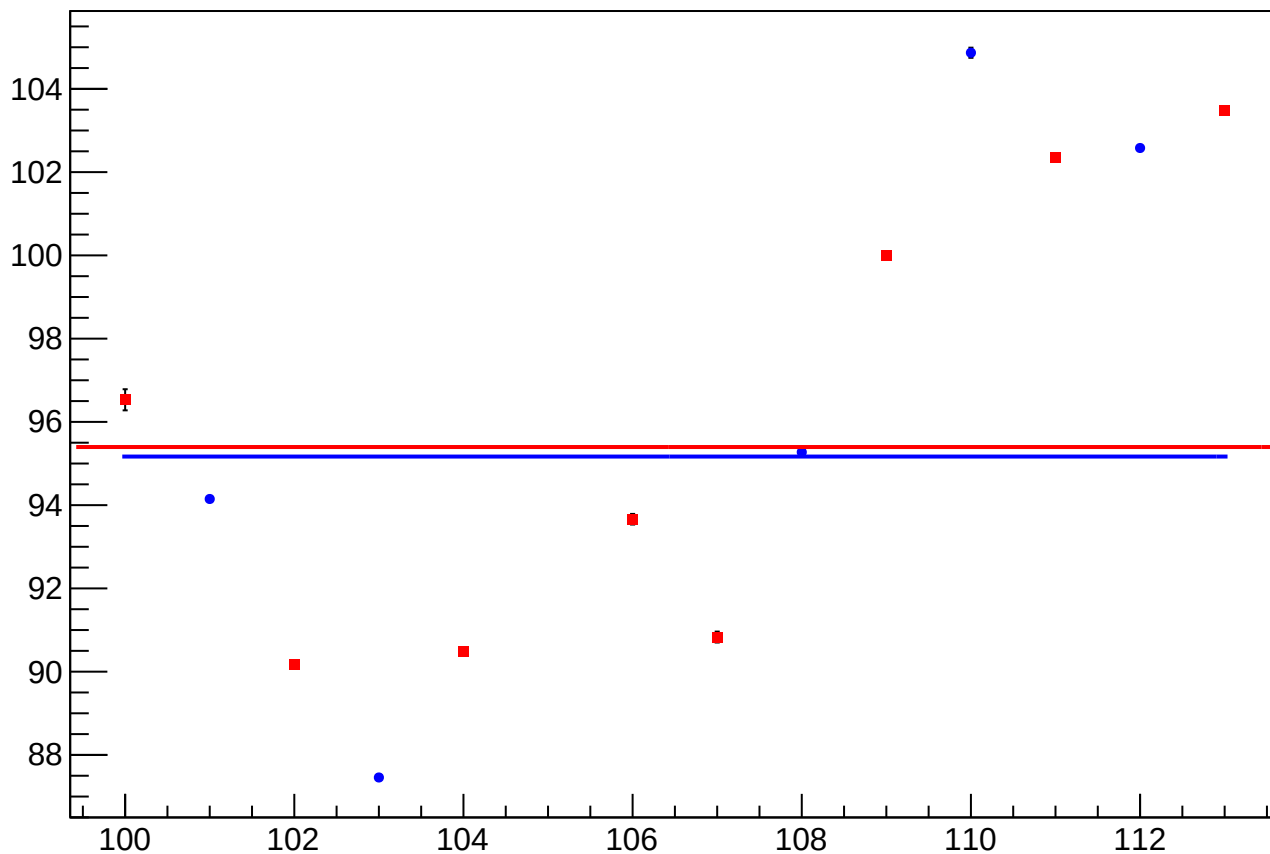
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.110 $\pm$ 39.899  $\chi^2$ /NDF: 18.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 95.167 $\pm$ 0.042  $\chi^2$ /NDF: 21115.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 95.397 $\pm$ 0.038  $\chi^2$ /NDF: 21012.6/7

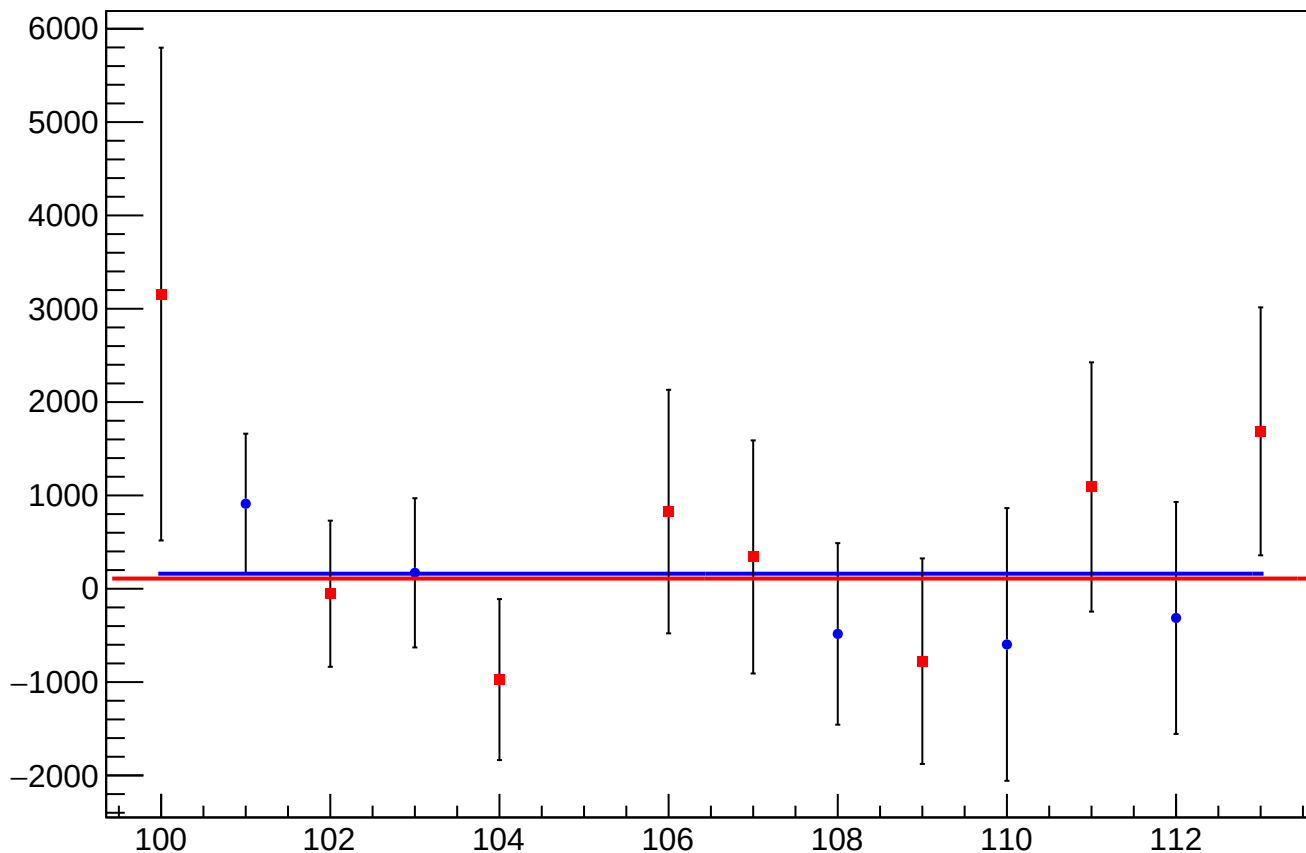
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 95.296 $\pm$ 0.028  $\chi^2$ /NDF: 42144.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_reg\_correction\_mean vs Slug



Right In: 161.448 $\pm$ 425.937  $\chi^2$ /NDF: 1.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 109.374 $\pm$ 398.409  $\chi^2$ /NDF: 5.9/7

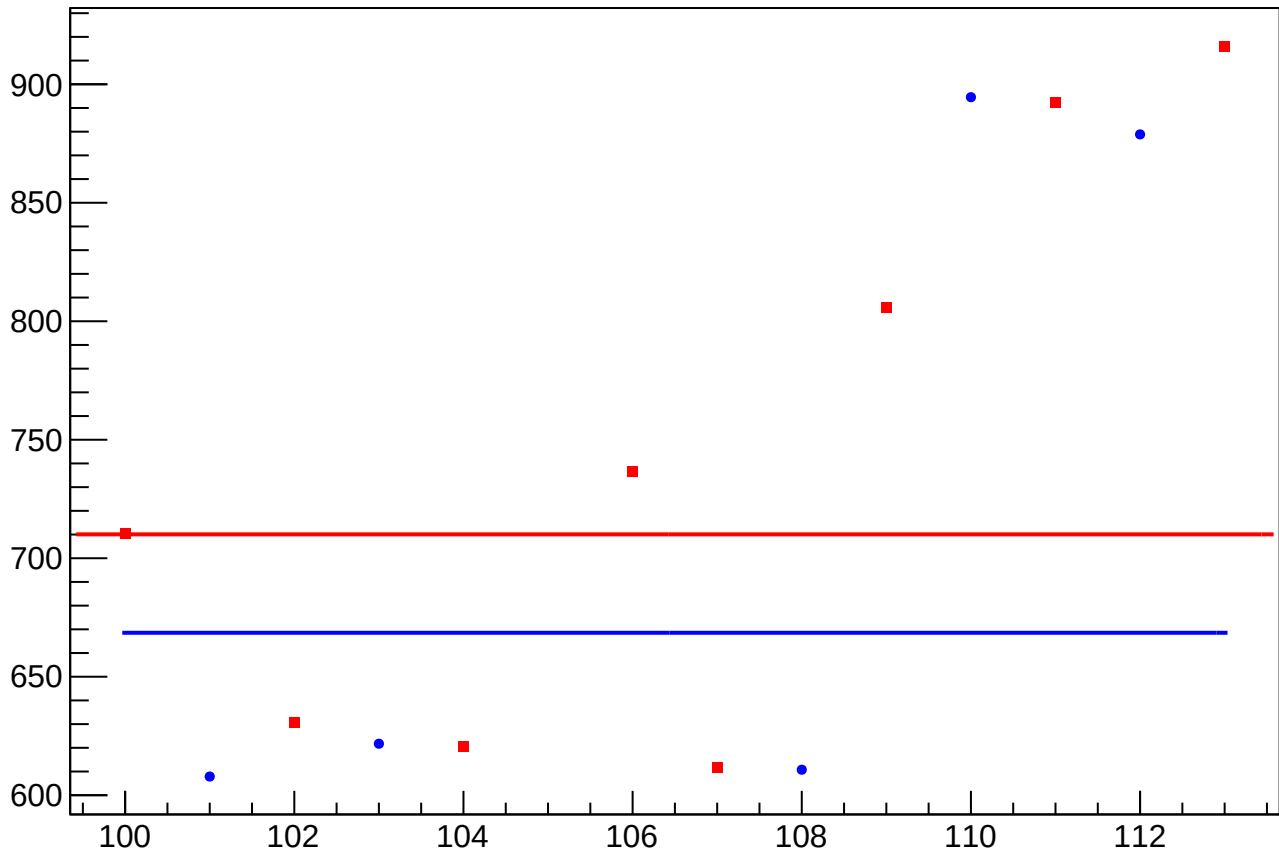
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 133.674 $\pm$ 290.963  $\chi^2$ /NDF: 7.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_reg\_correction\_rms vs Slug



Right In: 668.552 $\pm$ 0.301  $\chi^2$ /NDF: 132103.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 710.084 $\pm$ 0.282  $\chi^2$ /NDF: 155933.4/7

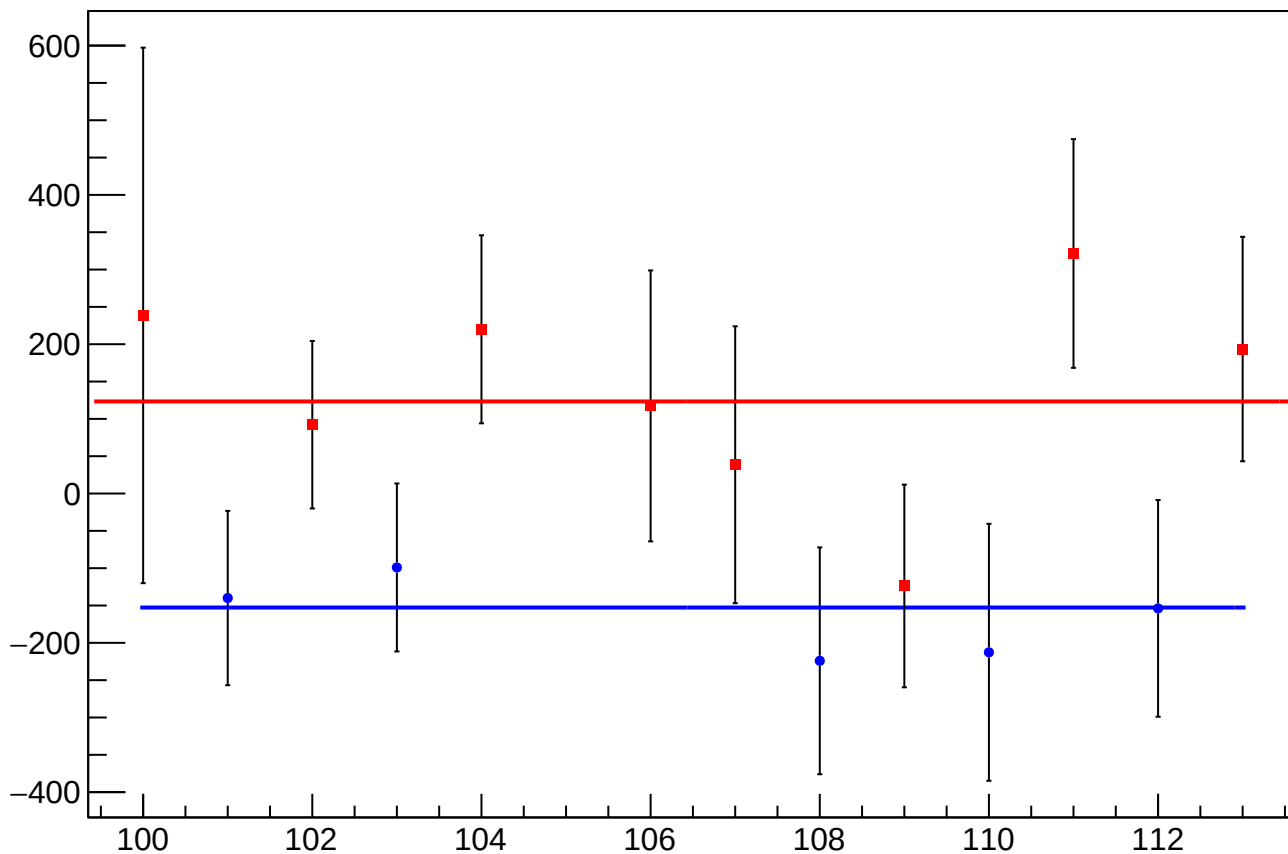
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 690.703 $\pm$ 0.206  $\chi^2$ /NDF: 298179.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: -152.708 $\pm$ 60.094  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 123.344 $\pm$ 53.386  $\chi^2$ /NDF: 6.2/7

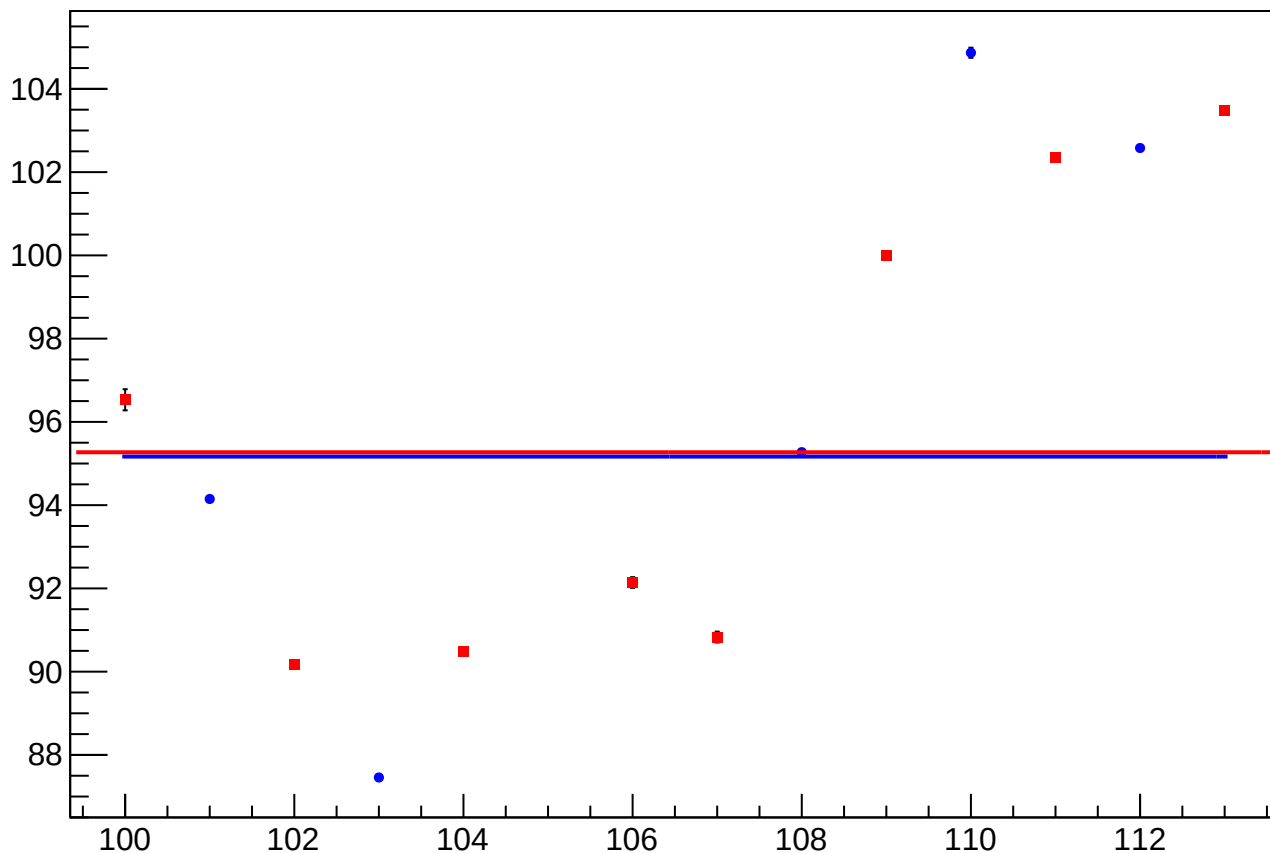
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.577 $\pm$ 39.912  $\chi^2$ /NDF: 18.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 95.167+/-0.042  $\chi^2$ /NDF: 21115.5/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 95.271+/-0.038  $\chi^2$ /NDF: 21433.1/7

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

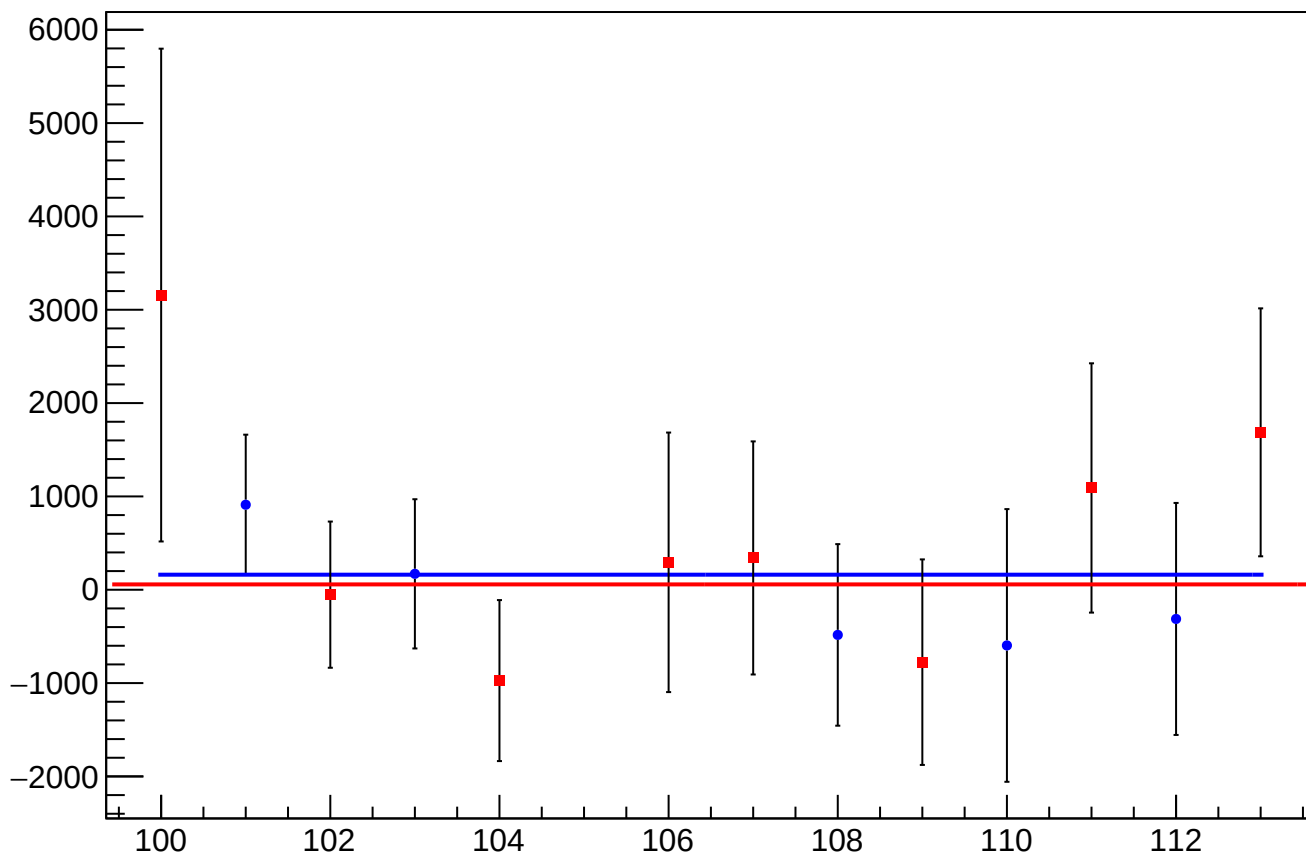
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 95.225+/-0.028  $\chi^2$ /NDF: 42551.9/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_26\_dd\_cor\_correction\_mean vs Slug



Right In: 161.411+/-425.939  $\chi^2/\text{NDF}$ : 1.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 57.336+/-400.679  $\chi^2/\text{NDF}$ : 5.6/7

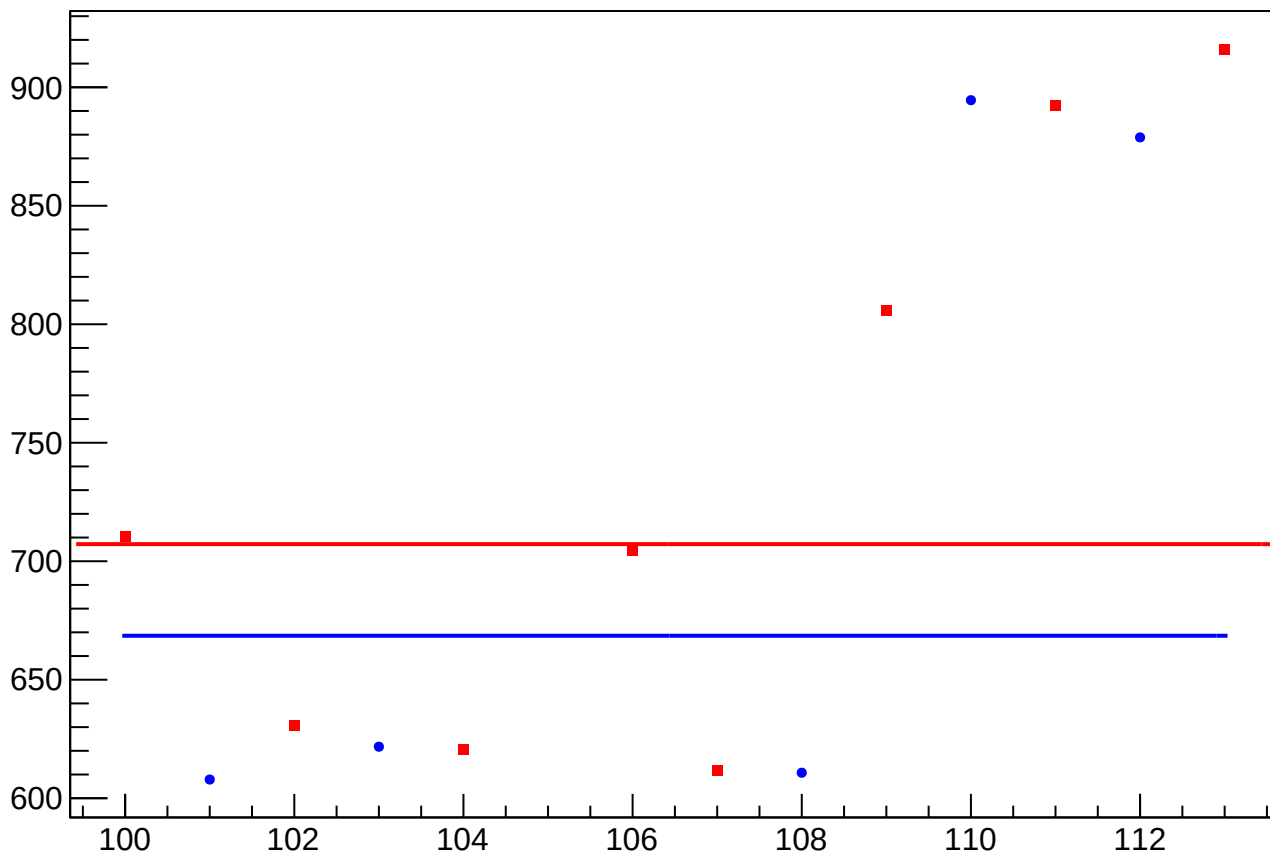
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 106.196+/-291.845  $\chi^2/\text{NDF}$ : 7.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_26\_dd\_cor\_correction\_rms vs Slug



Right In: 668.556+/-0.301  $\chi^2/\text{NDF}$ : 132099.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 707.213+/-0.283  $\chi^2/\text{NDF}$ : 154897.6/7

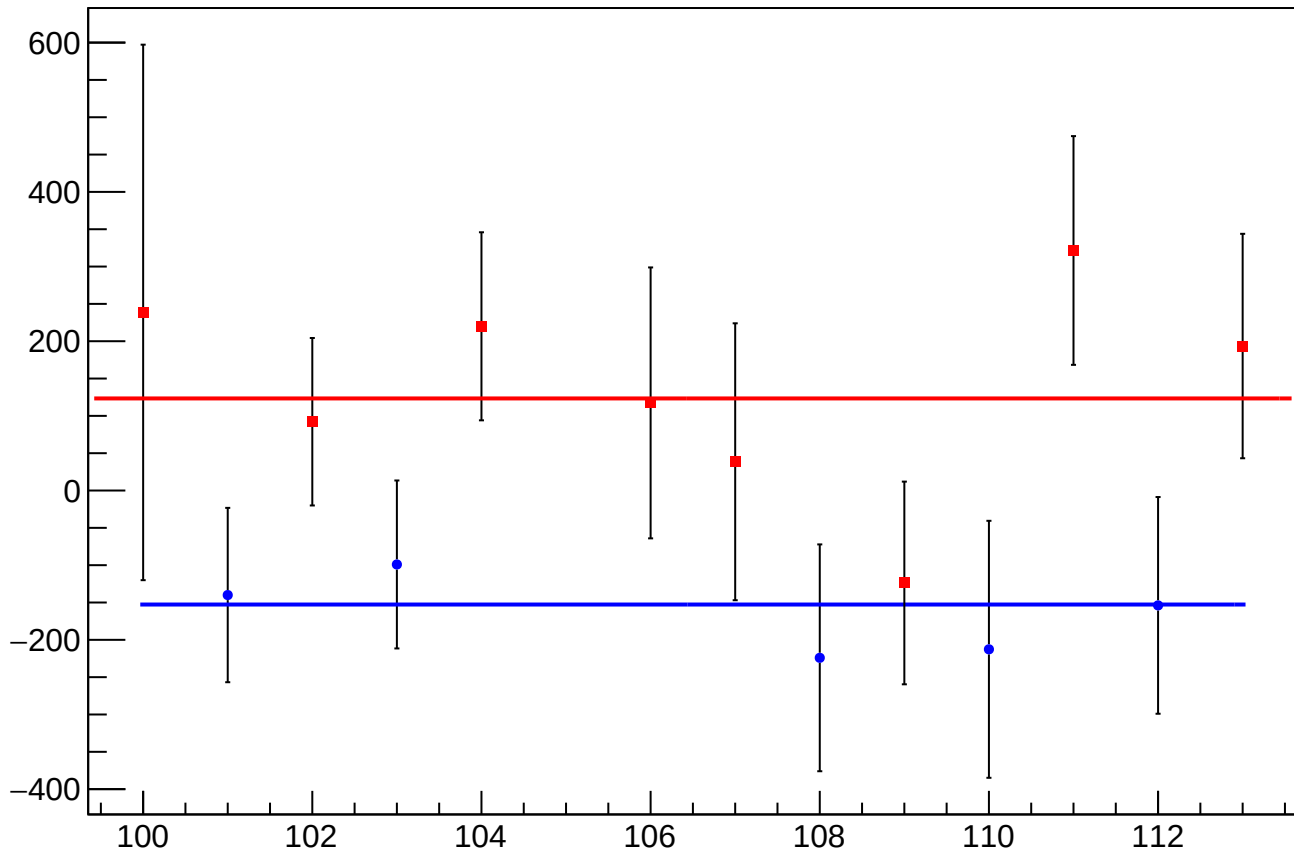
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 689.065+/-0.206  $\chi^2/\text{NDF}$ : 295737.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: -152.708 $\pm$ 60.094  $\chi^2$ /NDF: 0.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 123.344 $\pm$ 53.386  $\chi^2$ /NDF: 6.2/7

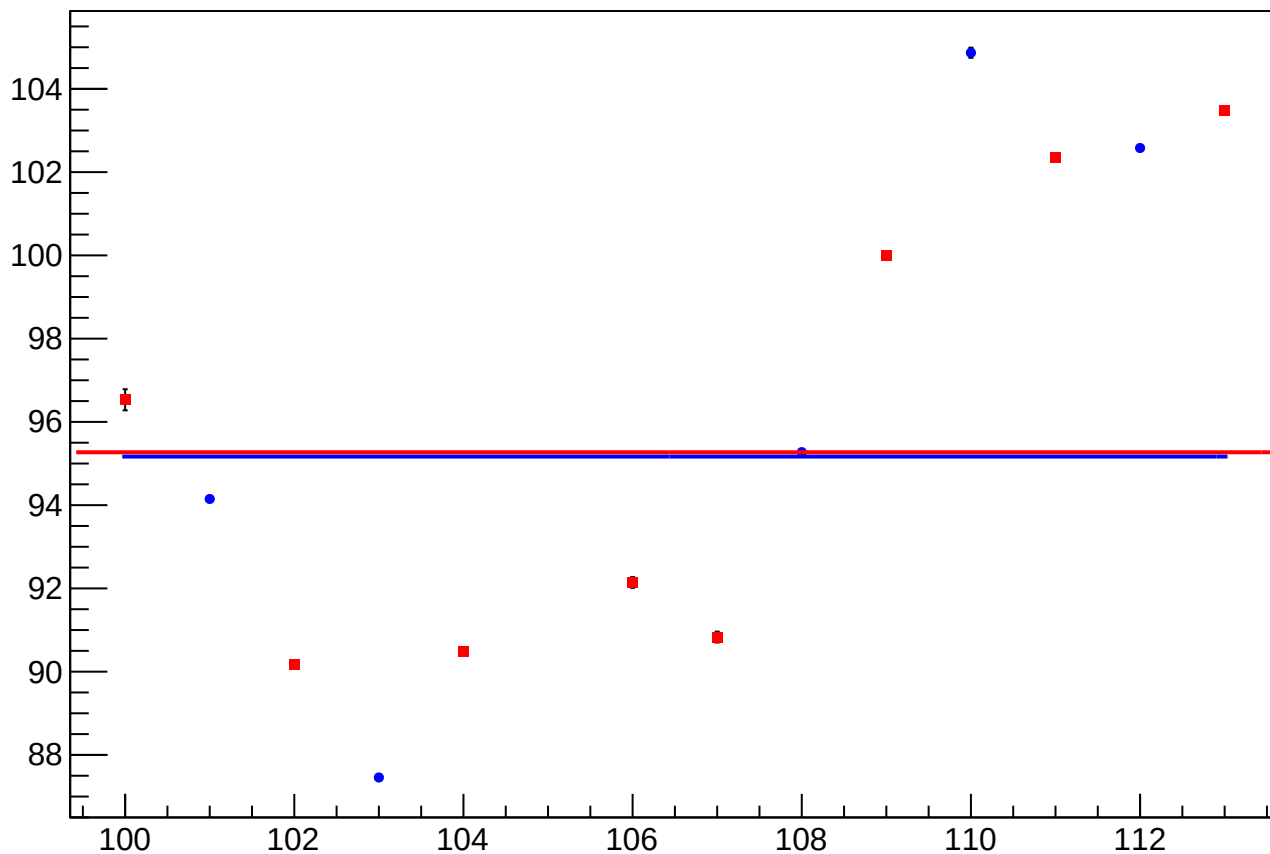
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.577 $\pm$ 39.912  $\chi^2$ /NDF: 18.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 95.167 $\pm$ 0.042  $\chi^2$ /NDF: 21115.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 95.271 $\pm$ 0.038  $\chi^2$ /NDF: 21433.1/7

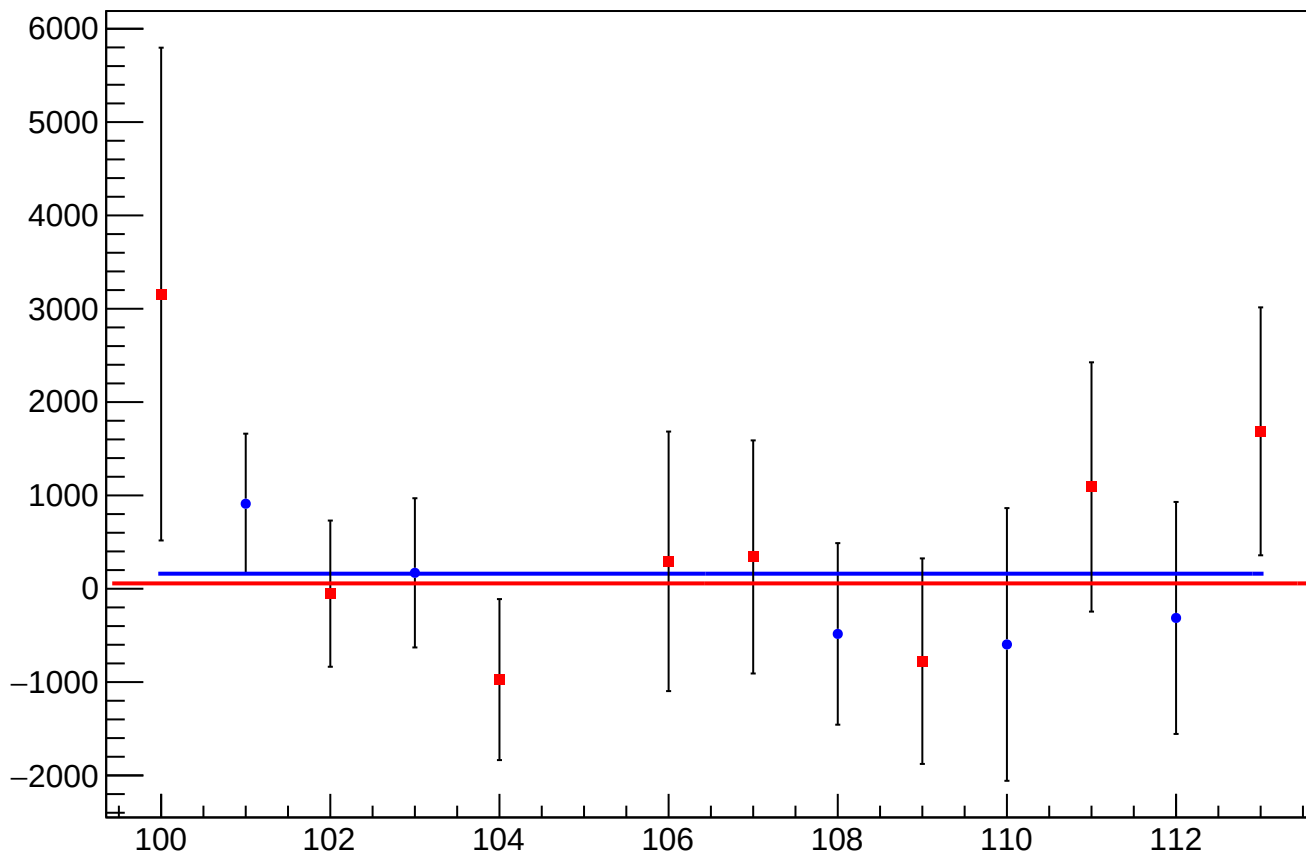
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 95.225 $\pm$ 0.028  $\chi^2$ /NDF: 42551.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 161.411 $\pm$ 425.939  $\chi^2$ /NDF: 1.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 57.336 $\pm$ 400.679  $\chi^2$ /NDF: 5.6/7

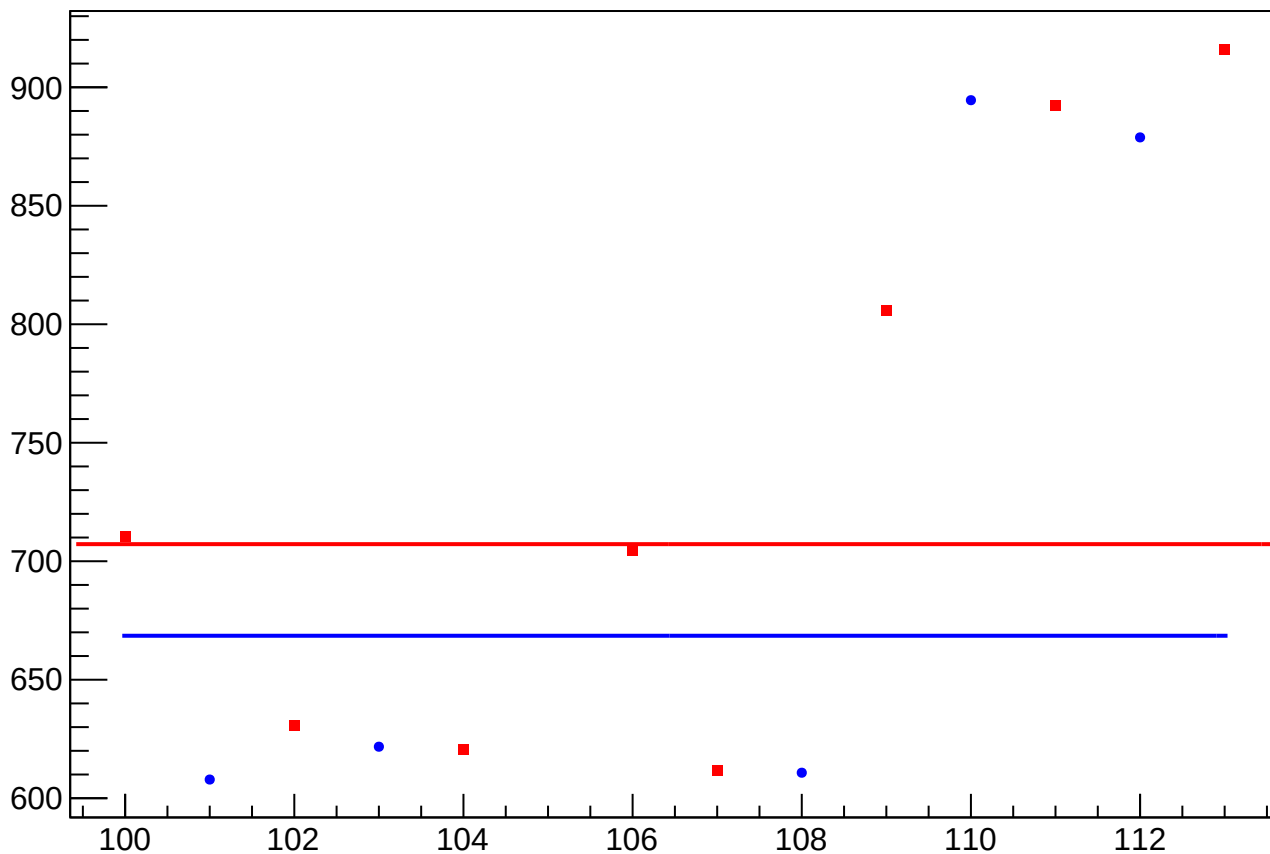
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 106.196 $\pm$ 291.845  $\chi^2$ /NDF: 7.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 668.556 $\pm$ 0.301  $\chi^2$ /NDF: 132099.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 707.213 $\pm$ 0.283  $\chi^2$ /NDF: 154897.6/7

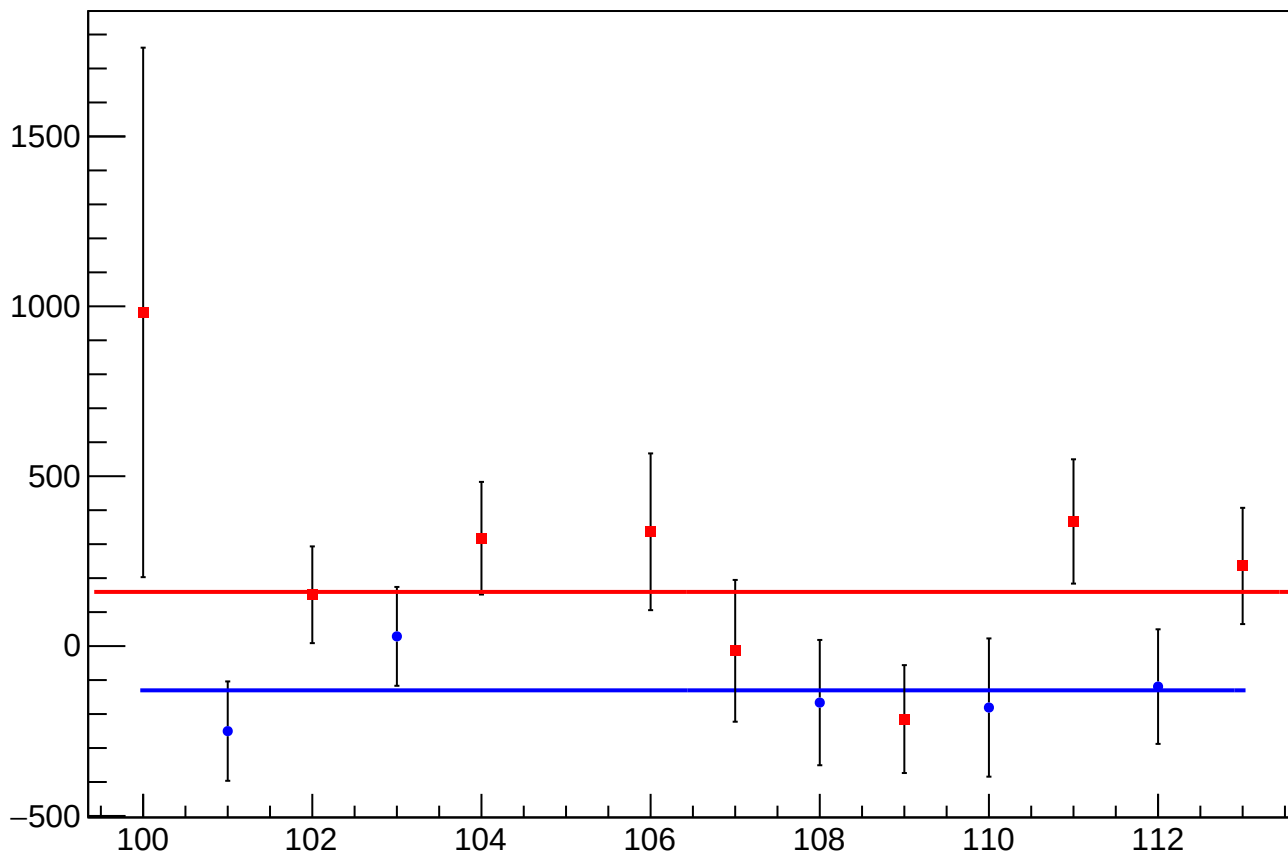
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 689.065 $\pm$ 0.206  $\chi^2$ /NDF: 295737.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In:  $-130.227 \pm 73.973$   $\chi^2/\text{NDF}$ : 2.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $159.468 \pm 65.529$   $\chi^2/\text{NDF}$ : 10.3/7

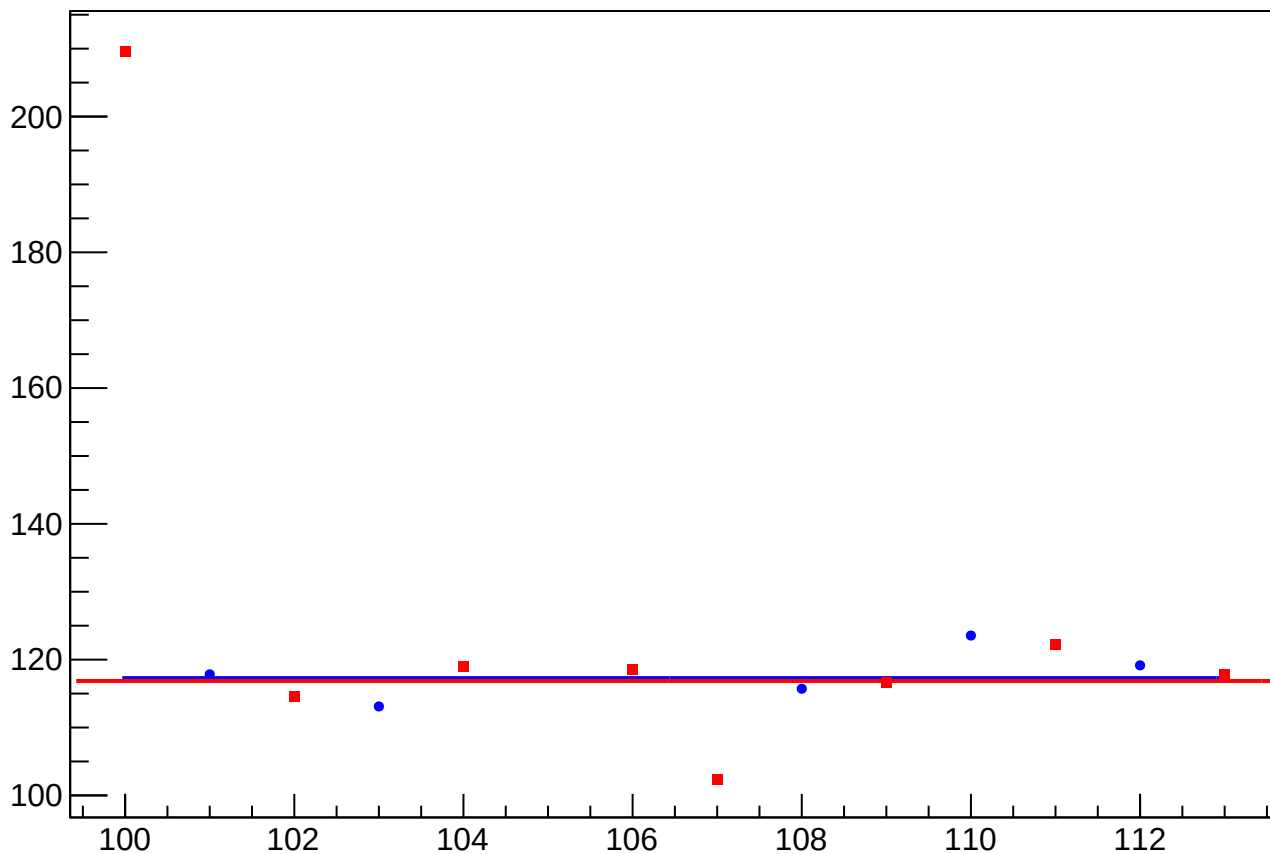
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $32.093 \pm 49.051$   $\chi^2/\text{NDF}$ : 20.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 117.280 $\pm$ 0.052  $\chi^2$ /NDF: 3970.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 116.860 $\pm$ 0.046  $\chi^2$ /NDF: 40805.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

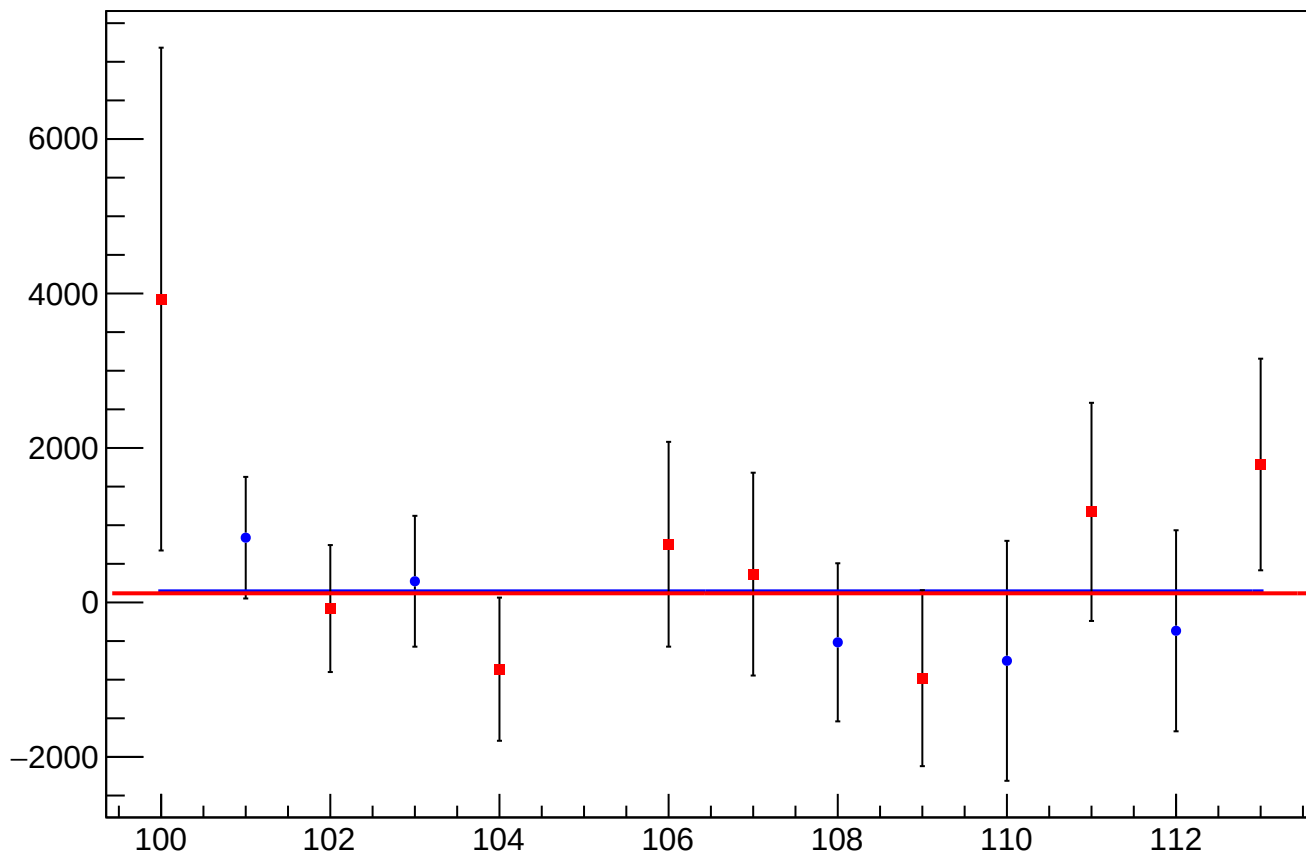
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 117.044 $\pm$ 0.035  $\chi^2$ /NDF: 44812.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_26\_dd\_dit\_correction\_mean vs Slug



Right In: 143.529 $\pm$ 448.711  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: 118.217 $\pm$ -419.142  $\chi^2$ /NDF: 5.8/7

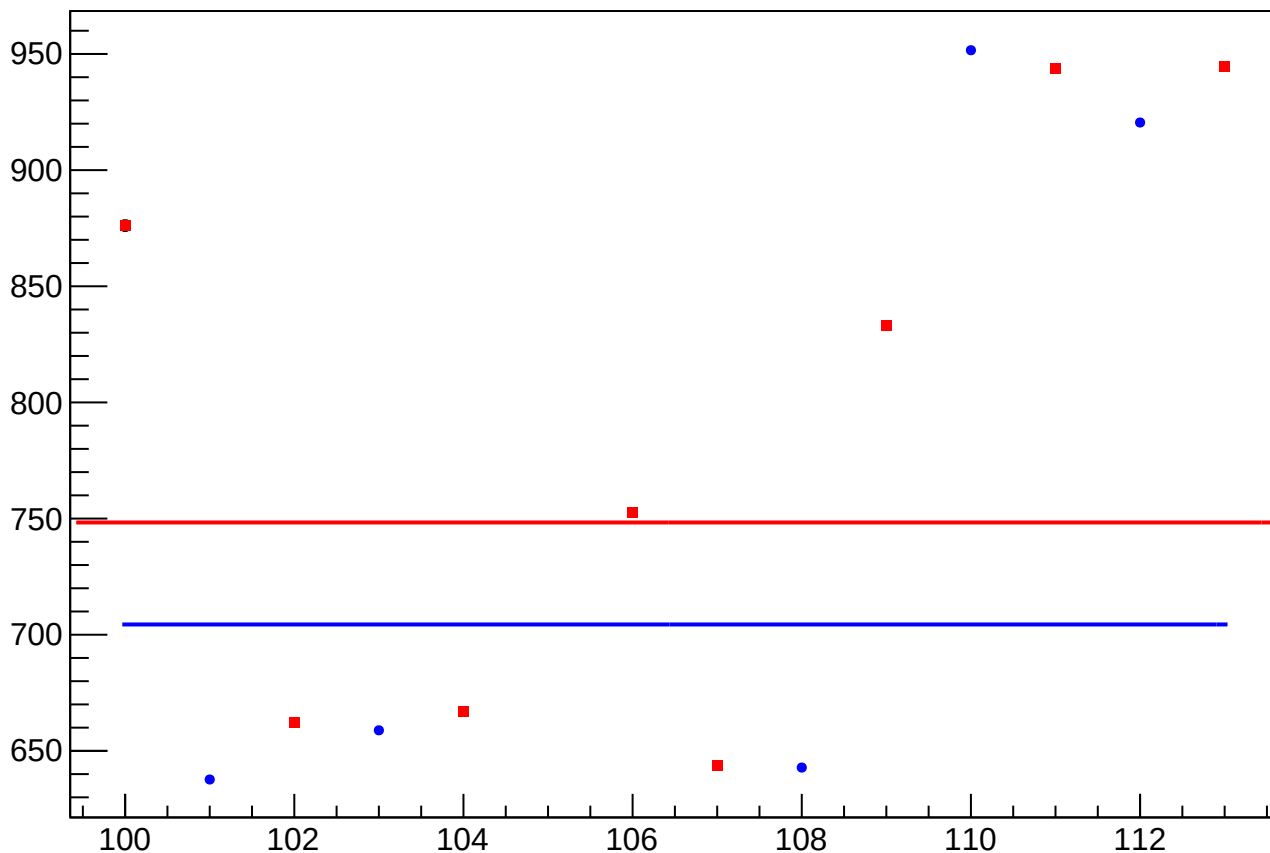
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 130.012 $\pm$ -306.298  $\chi^2$ /NDF: 7.5/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_dit\_correction\_rms vs Slug



Right In: 704.417+/-0.317  $\chi^2/\text{NDF}$ : 133179.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 748.319+/-0.296  $\chi^2/\text{NDF}$ : 143539.4/7

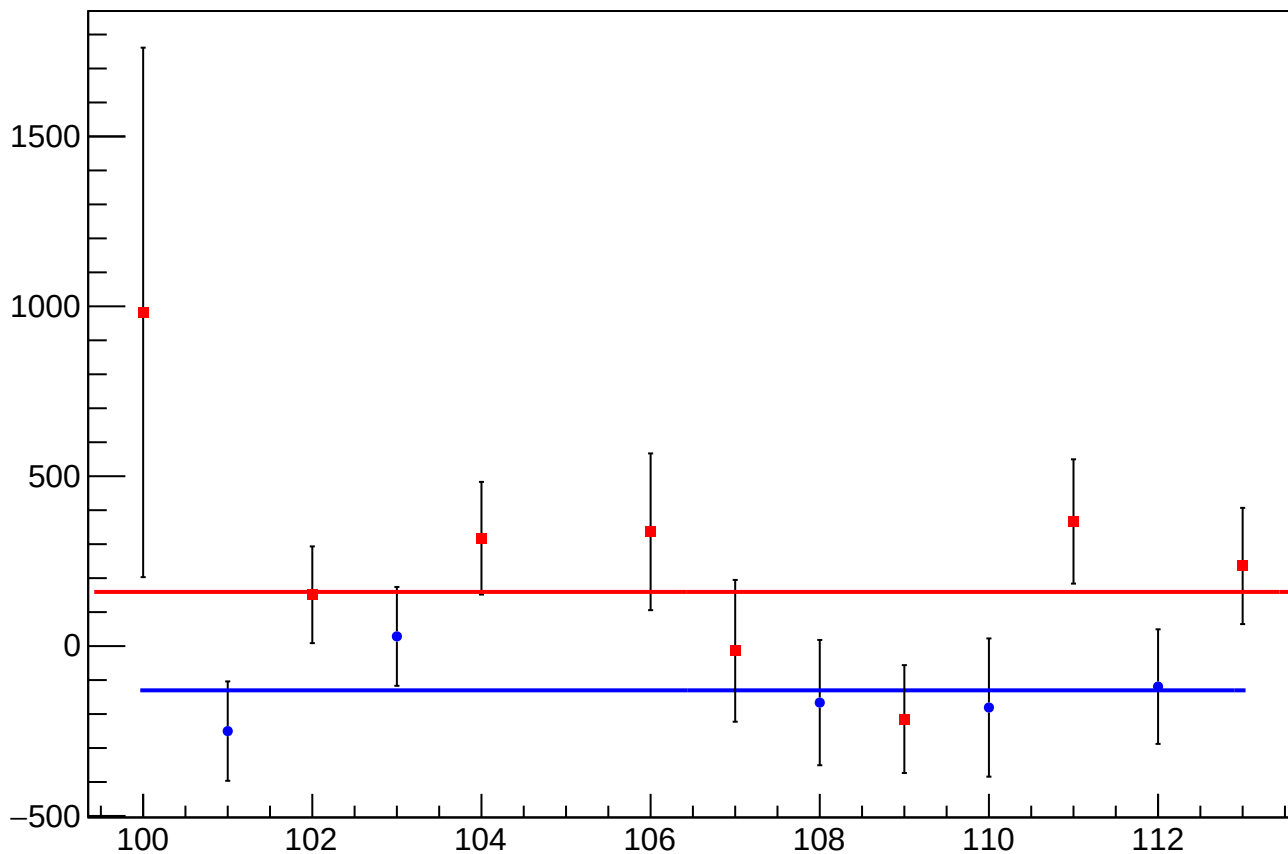
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 727.862+/-0.217  $\chi^2/\text{NDF}$ : 286943.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: -130.221+/-73.973  $\chi^2/\text{NDF}$ : 2.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 159.467+/-65.528  $\chi^2/\text{NDF}$ : 10.3/7

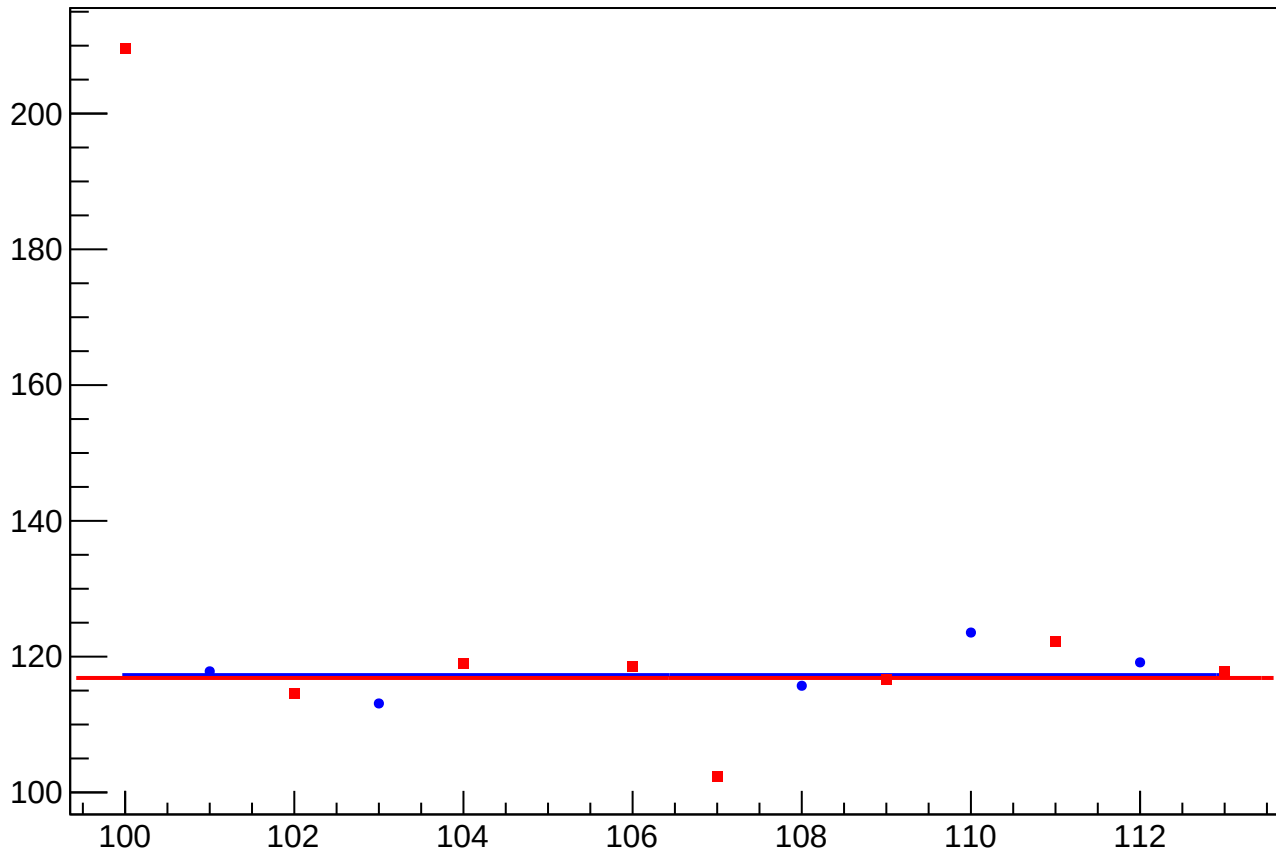
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.094+/-49.051  $\chi^2/\text{NDF}$ : 20.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 117.279 $\pm$ 0.052  $\chi^2$ /NDF: 3969.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 116.859 $\pm$ 0.046  $\chi^2$ /NDF: 40804.0/7

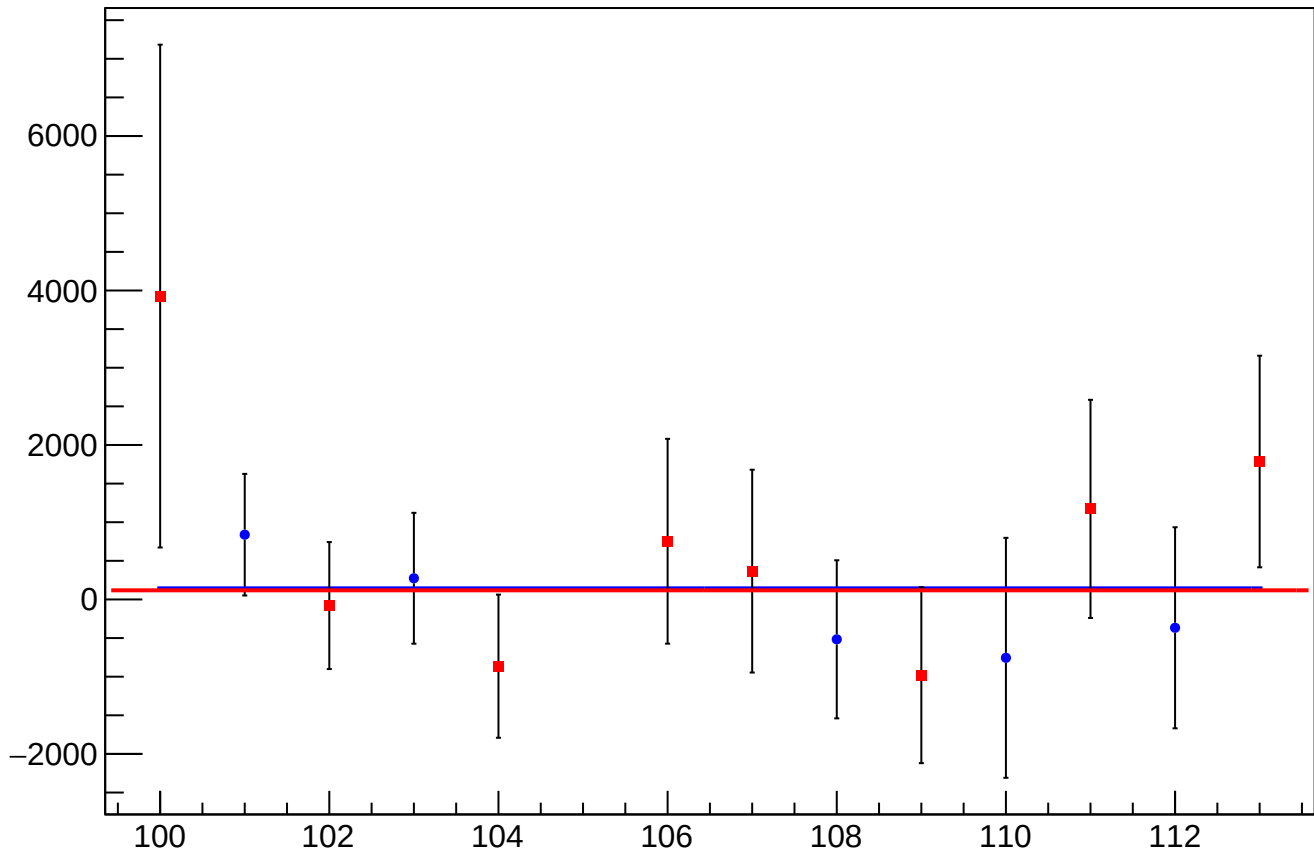
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 117.043 $\pm$ 0.035  $\chi^2$ /NDF: 44809.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 143.531+/-448.710  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 118.218+/-419.141  $\chi^2/\text{NDF}$ : 5.8/7

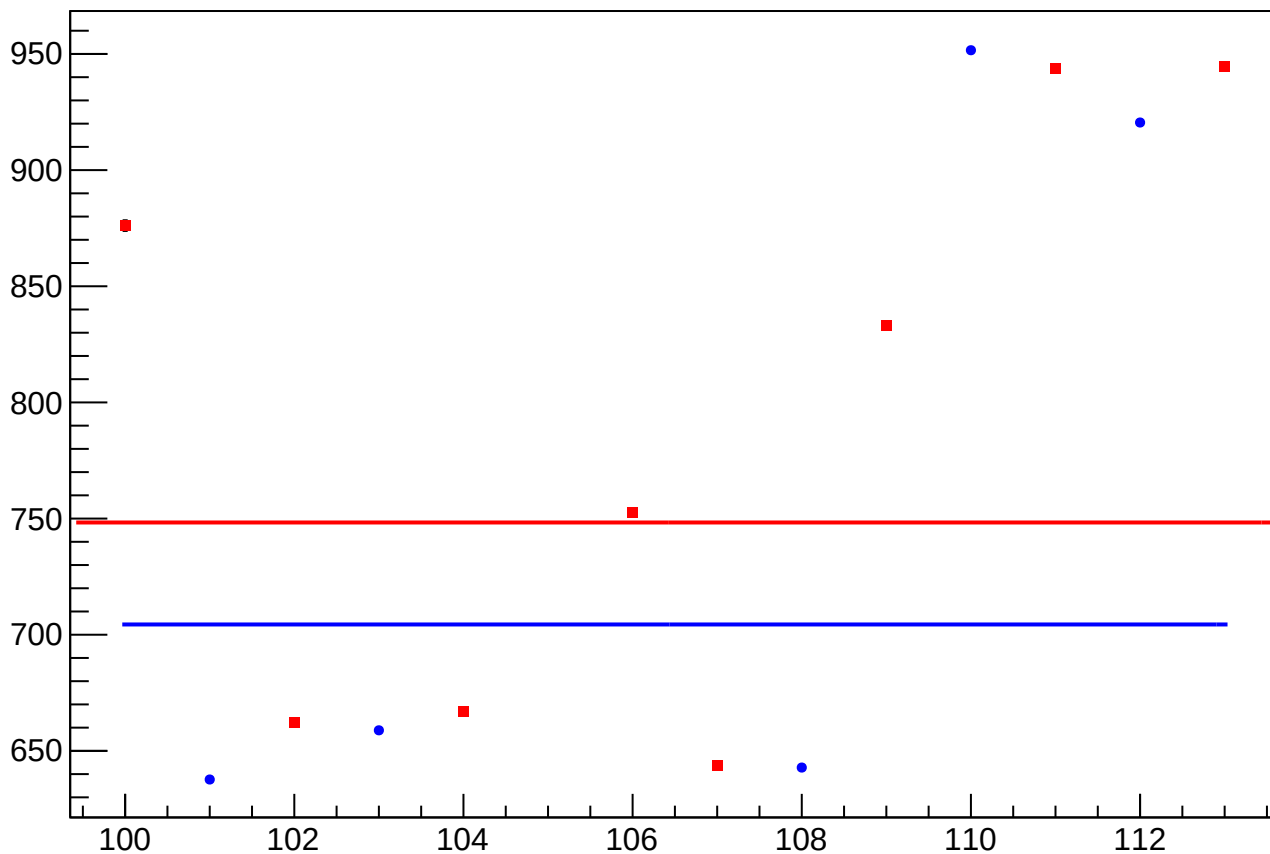
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 130.013+/-306.298  $\chi^2/\text{NDF}$ : 7.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 704.416+/-0.317  $\chi^2/\text{NDF}$ : 133175.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 748.317+/-0.296  $\chi^2/\text{NDF}$ : 143536.8/7

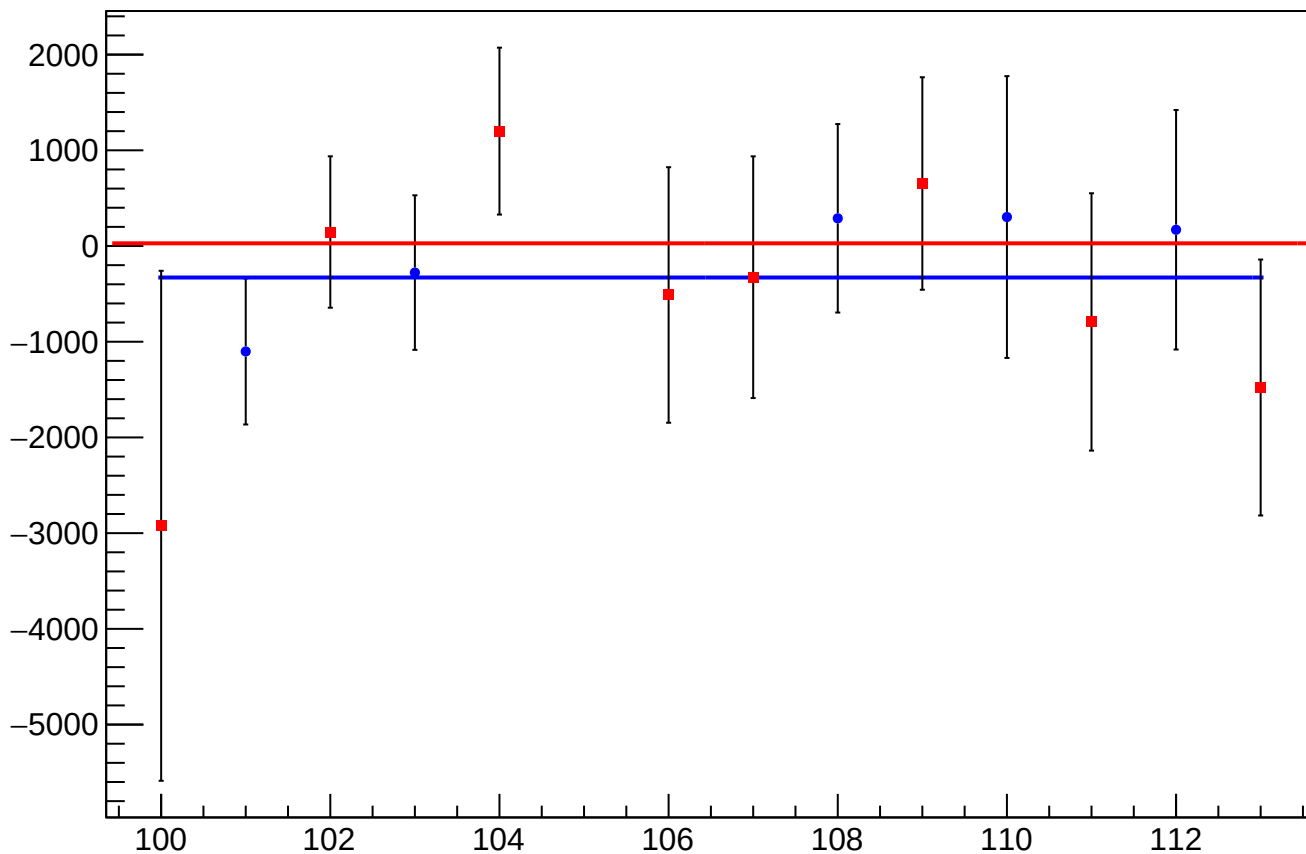
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 727.860+/-0.217  $\chi^2/\text{NDF}$ : 286936.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: -329.051+/-431.001  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28.243+/-402.679  $\chi^2$ /NDF: 5.3/7

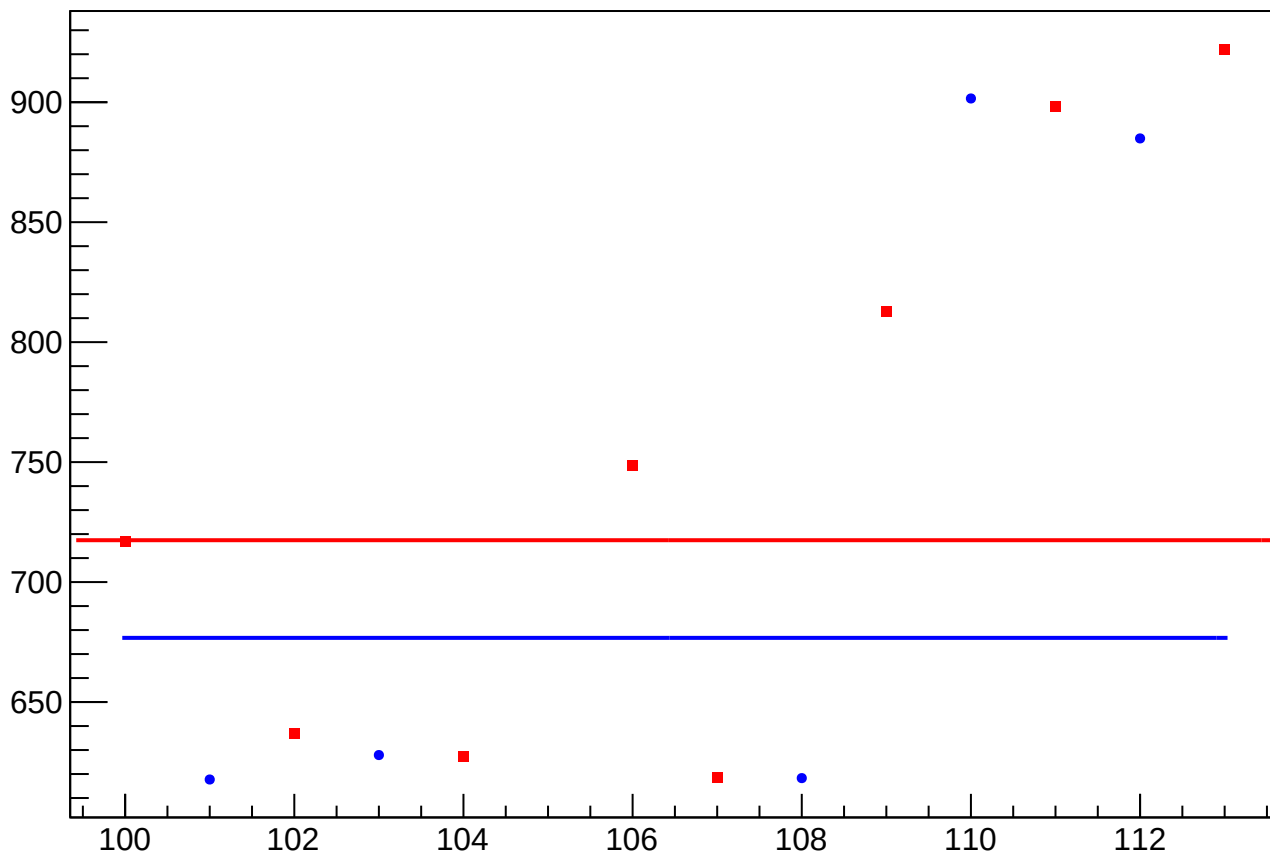
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -138.280+/-294.241  $\chi^2$ /NDF: 7.4/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 676.749+/-0.305  $\chi^2/\text{NDF}$ : 128307.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 717.449+/-0.285  $\chi^2/\text{NDF}$ : 153130.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

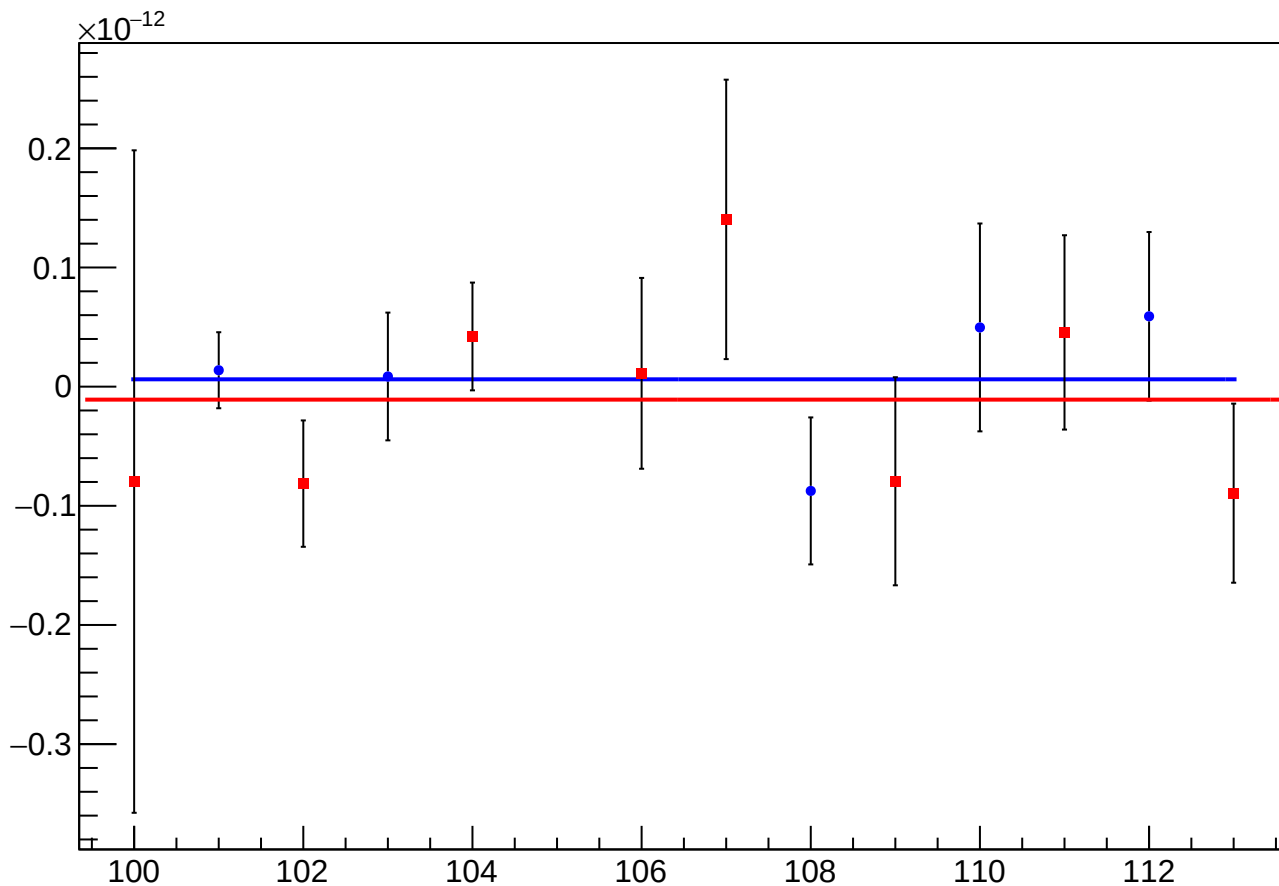
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 698.480+/-0.208  $\chi^2/\text{NDF}$ : 290960.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_26\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.1/7

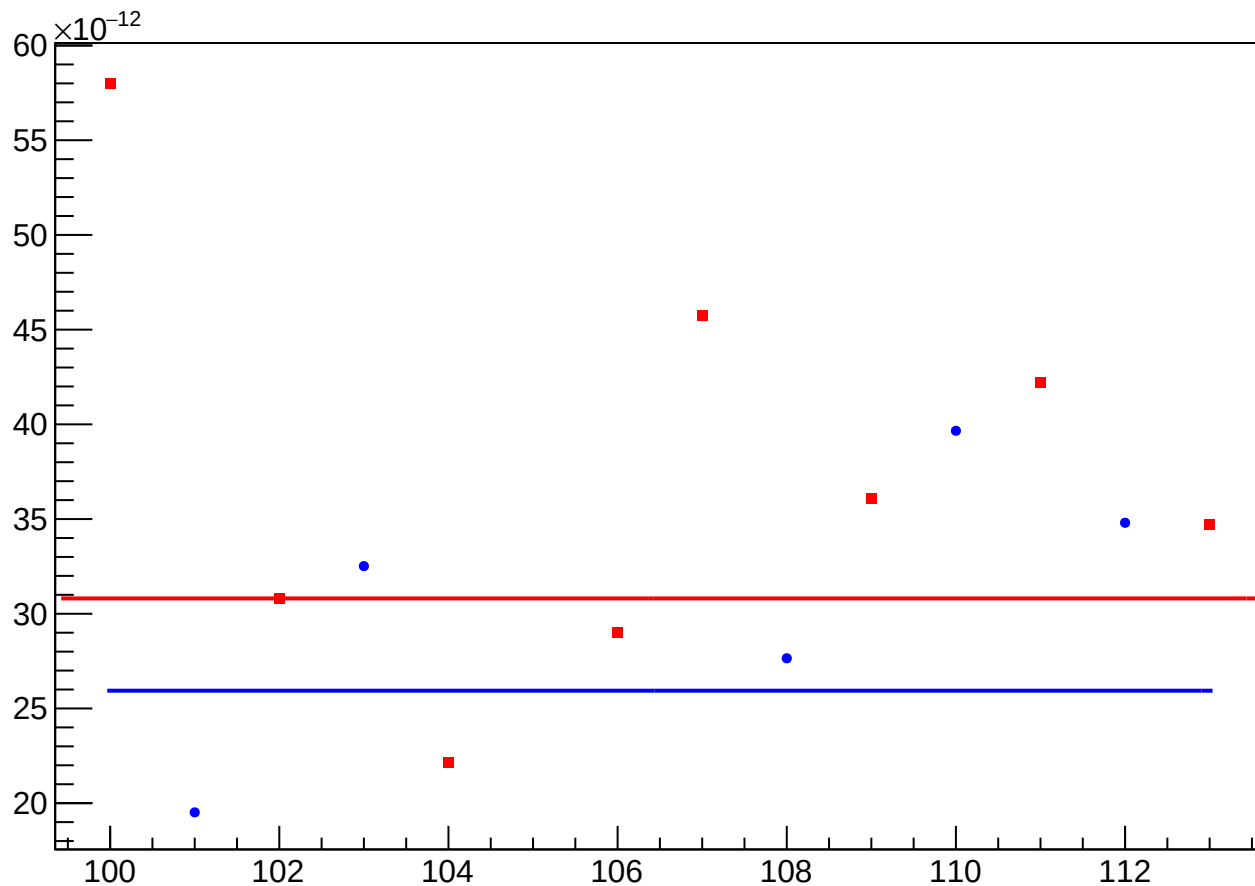
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 193683.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 177703.4/7

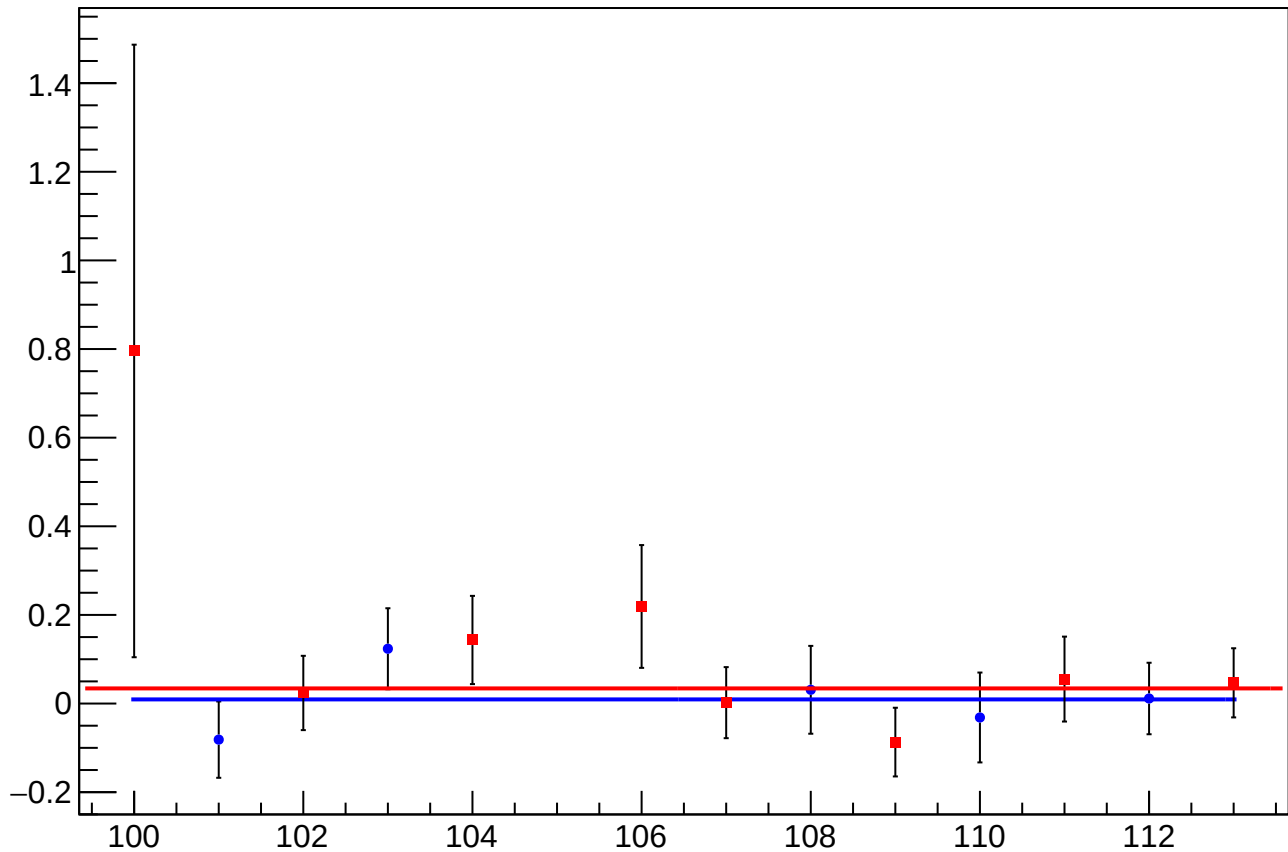
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 412071.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_26\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.041  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.034 $\pm$ 0.033  $\chi^2$ /NDF: 6.9/7

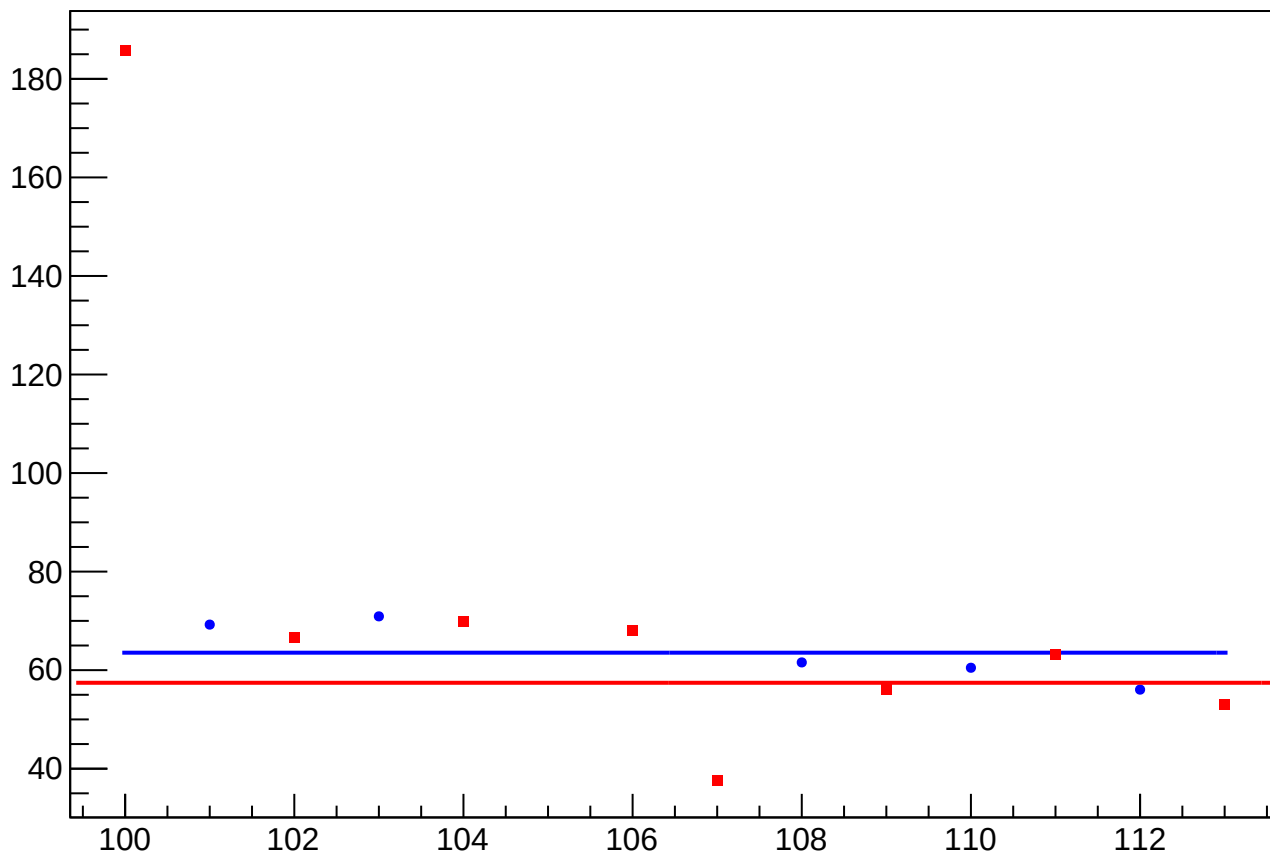
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.026  $\chi^2$ /NDF: 10.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In:  $63.544 \pm 0.029$   $\chi^2/\text{NDF}$ : 41657.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $57.436 \pm 0.024$   $\chi^2/\text{NDF}$ : 273249.8/7

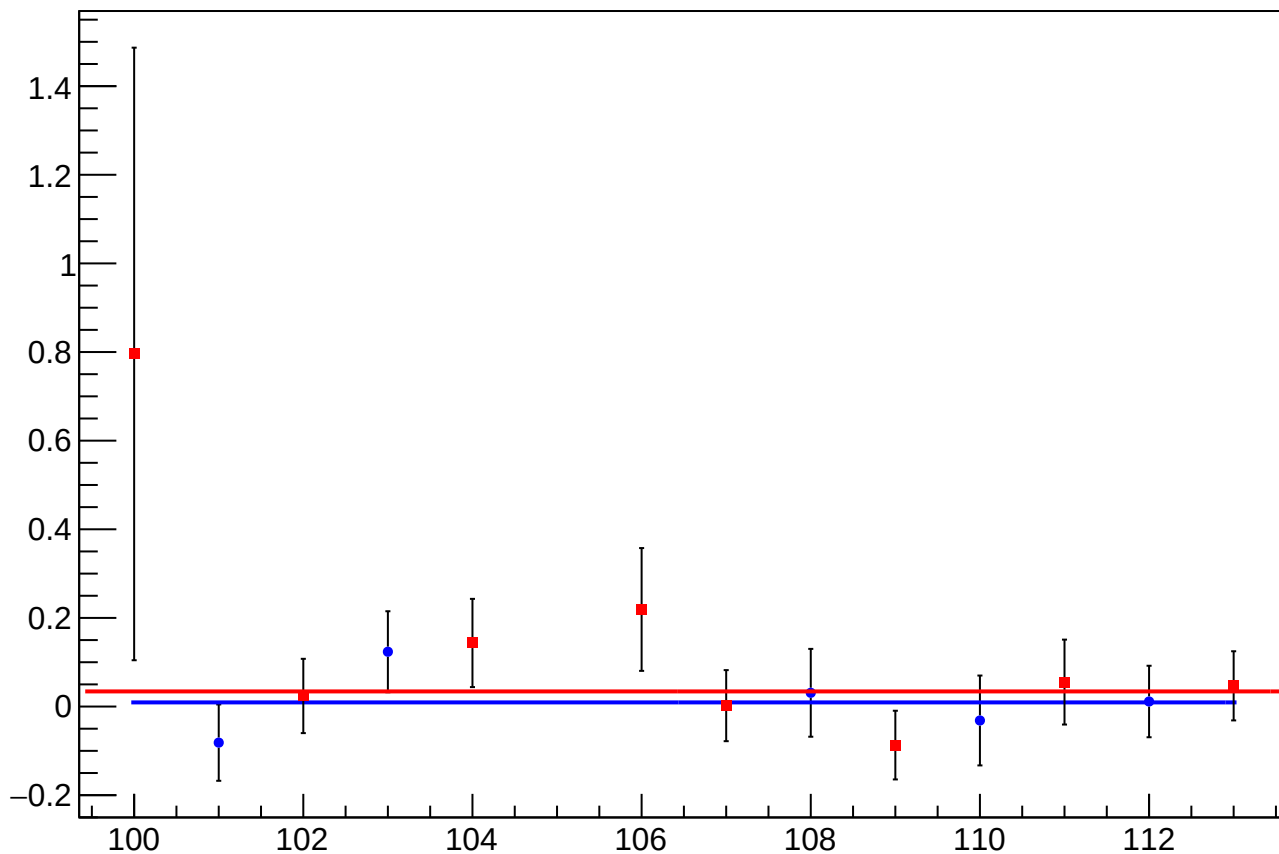
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $59.909 \pm 0.018$   $\chi^2/\text{NDF}$ : 341867.6/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.041  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.034 $\pm$ 0.033  $\chi^2$ /NDF: 6.9/7

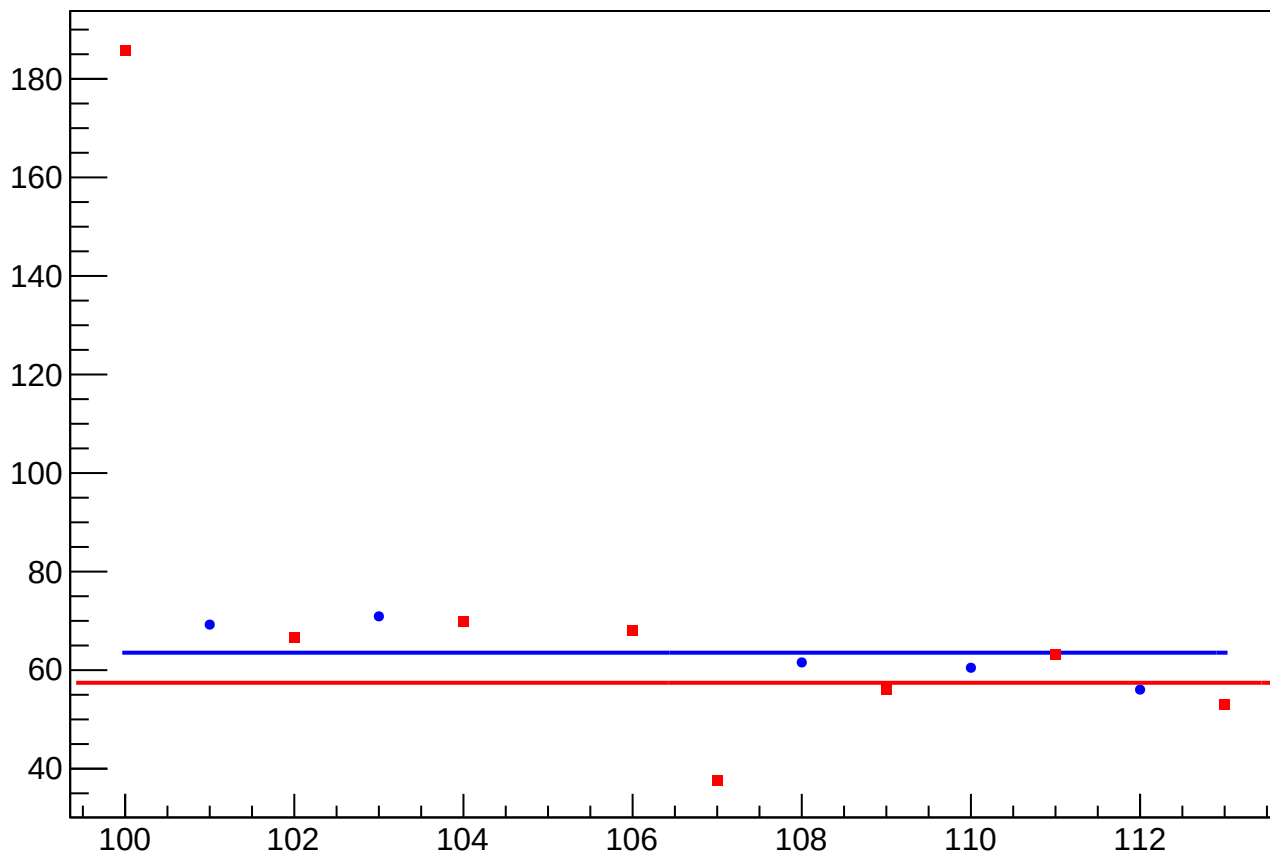
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.026  $\chi^2$ /NDF: 10.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 63.544+/-0.029  $\chi^2/\text{NDF}$ : 41657.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 57.436+/-0.024  $\chi^2/\text{NDF}$ : 273249.8/7

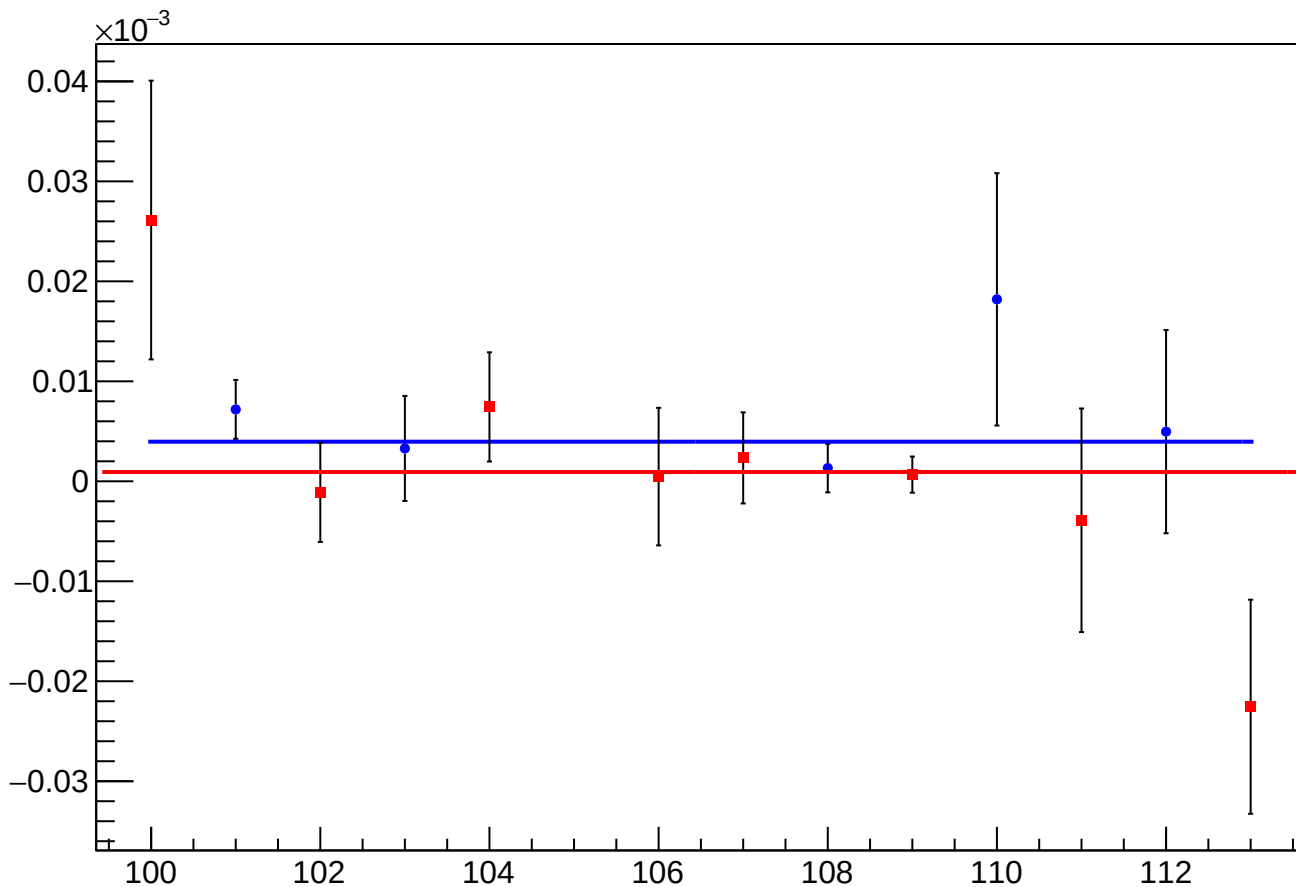
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 59.909+/-0.018  $\chi^2/\text{NDF}$ : 341867.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.0/7

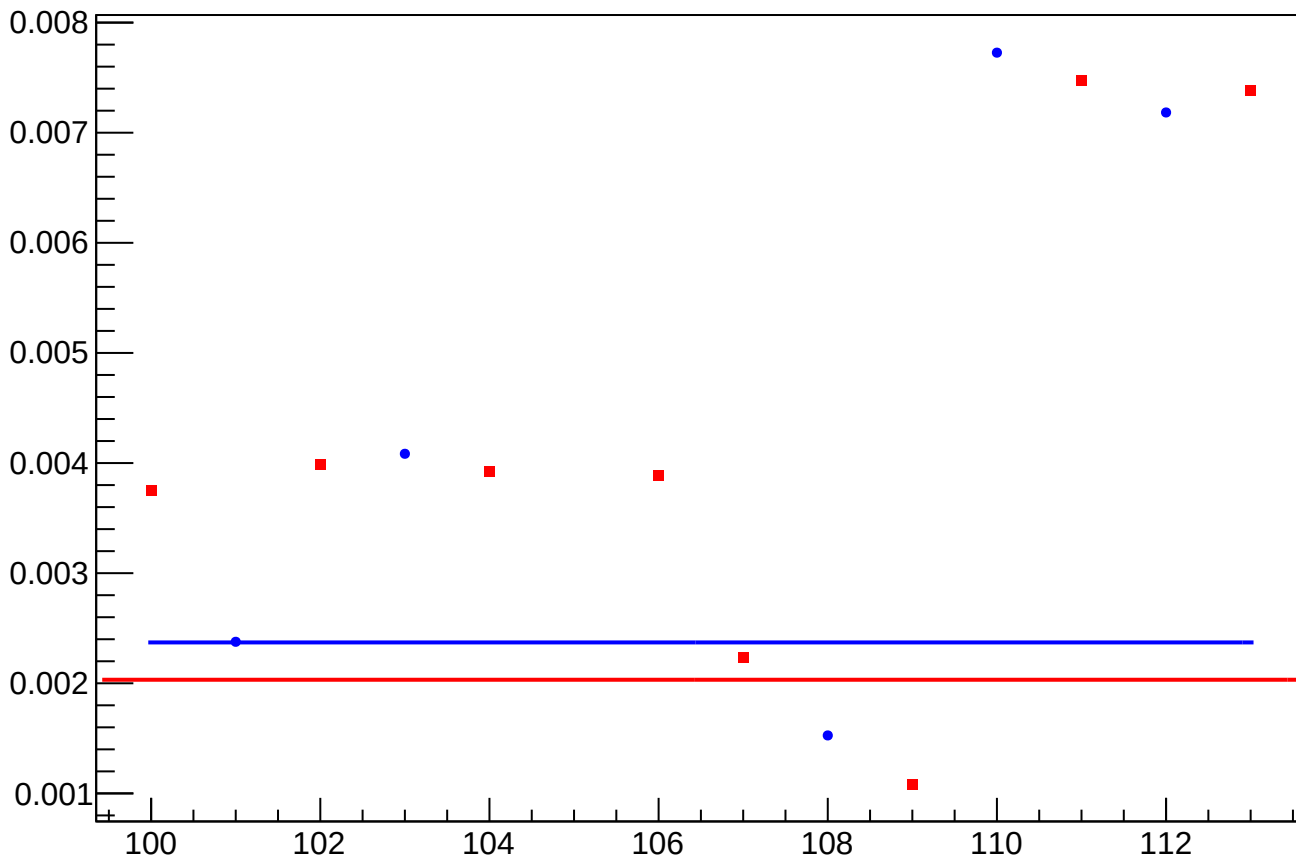
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1263002.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2256689.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

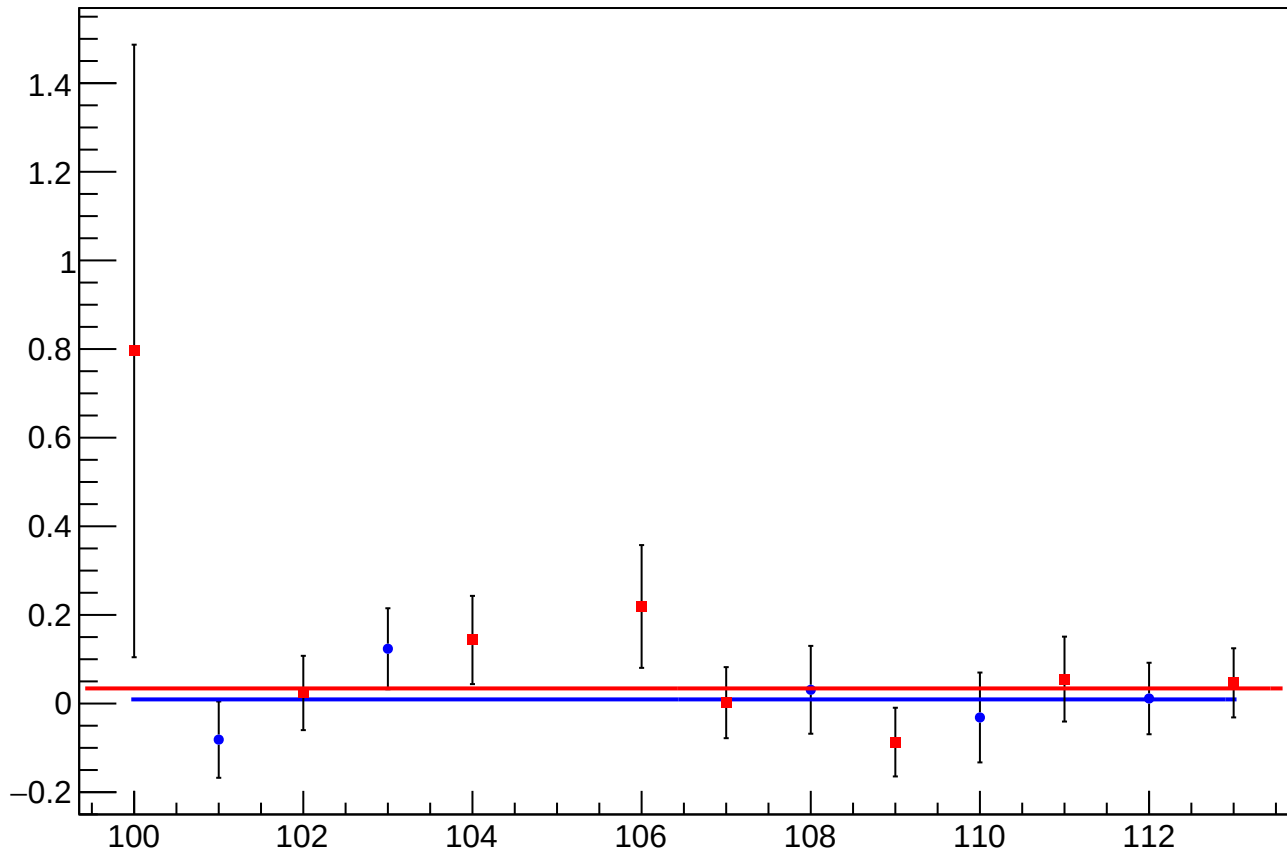
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3564802.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.041  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.034 $\pm$ 0.033  $\chi^2$ /NDF: 6.9/7

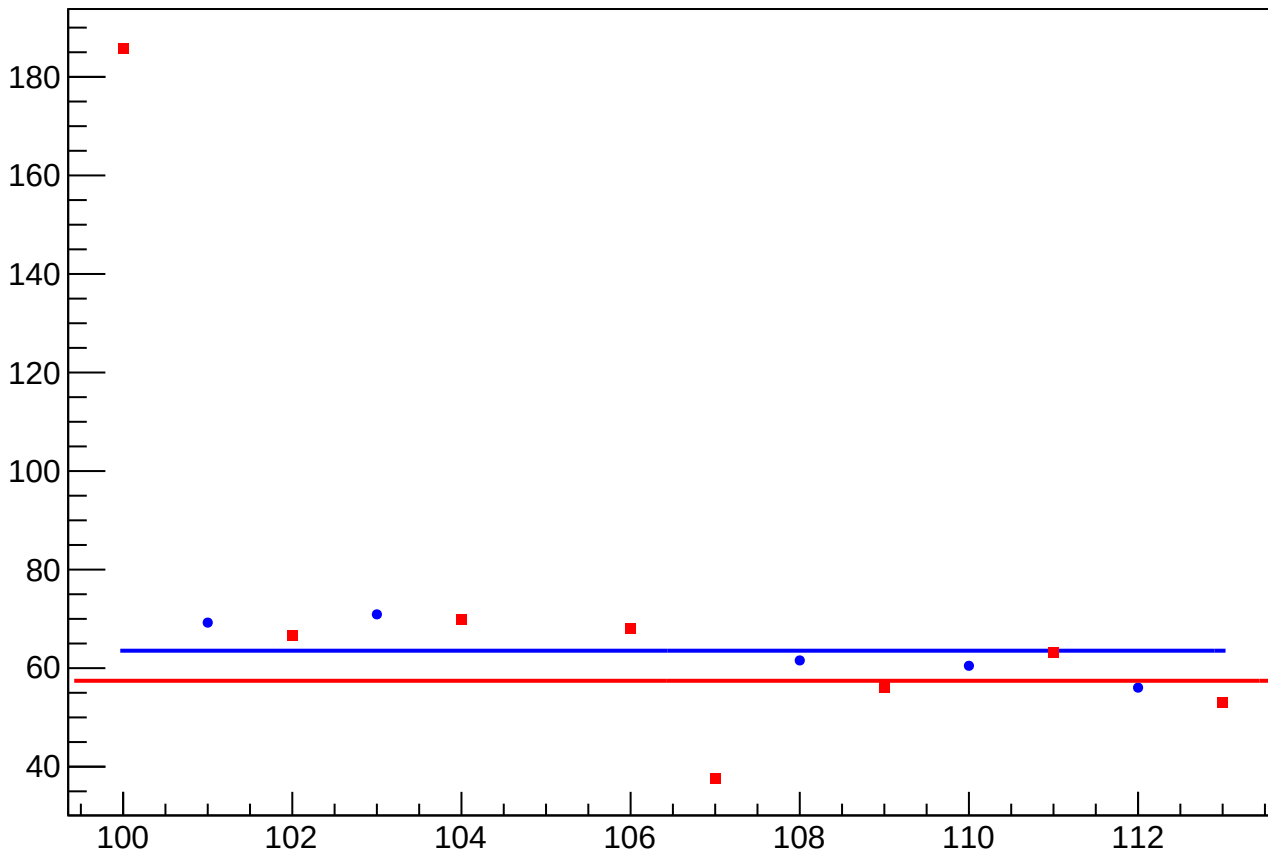
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.026  $\chi^2$ /NDF: 10.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 63.541+/-0.029  $\chi^2/\text{NDF}$ : 41684.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 57.434+/-0.024  $\chi^2/\text{NDF}$ : 273233.6/7

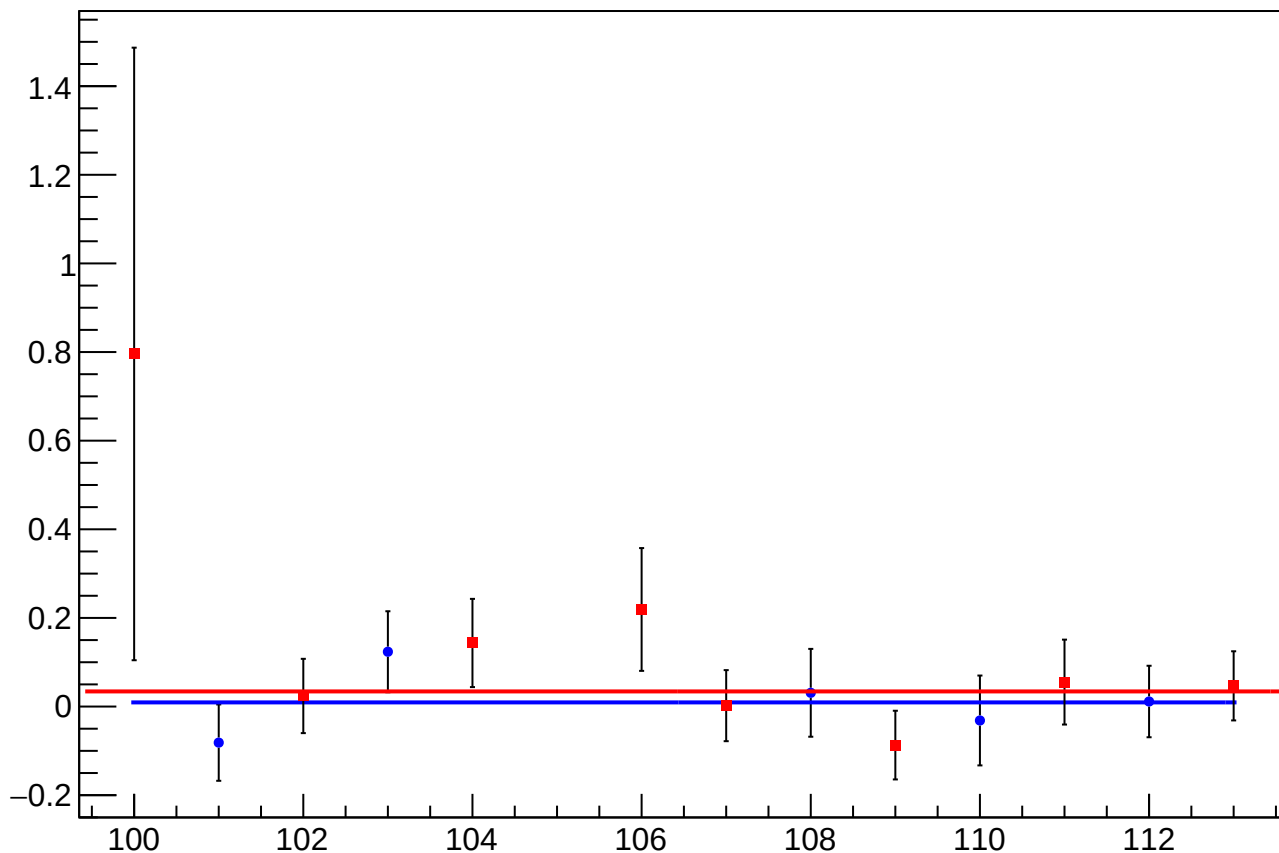
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 59.907+/-0.018  $\chi^2/\text{NDF}$ : 341871.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.041  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.034 $\pm$ 0.033  $\chi^2$ /NDF: 6.9/7

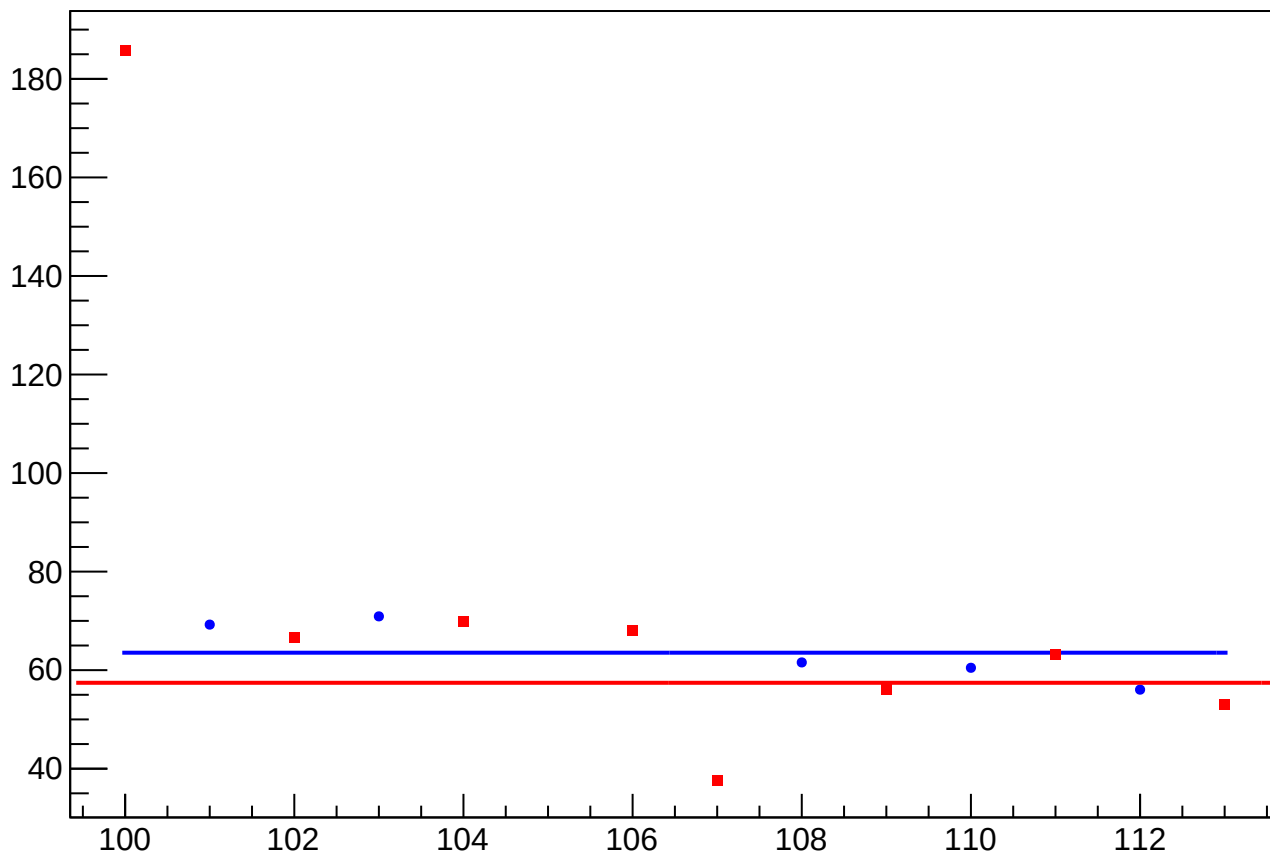
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.026  $\chi^2$ /NDF: 10.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 63.541 $\pm$ 0.029  $\chi^2$ /NDF: 41684.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 57.434 $\pm$ 0.024  $\chi^2$ /NDF: 273233.6/7

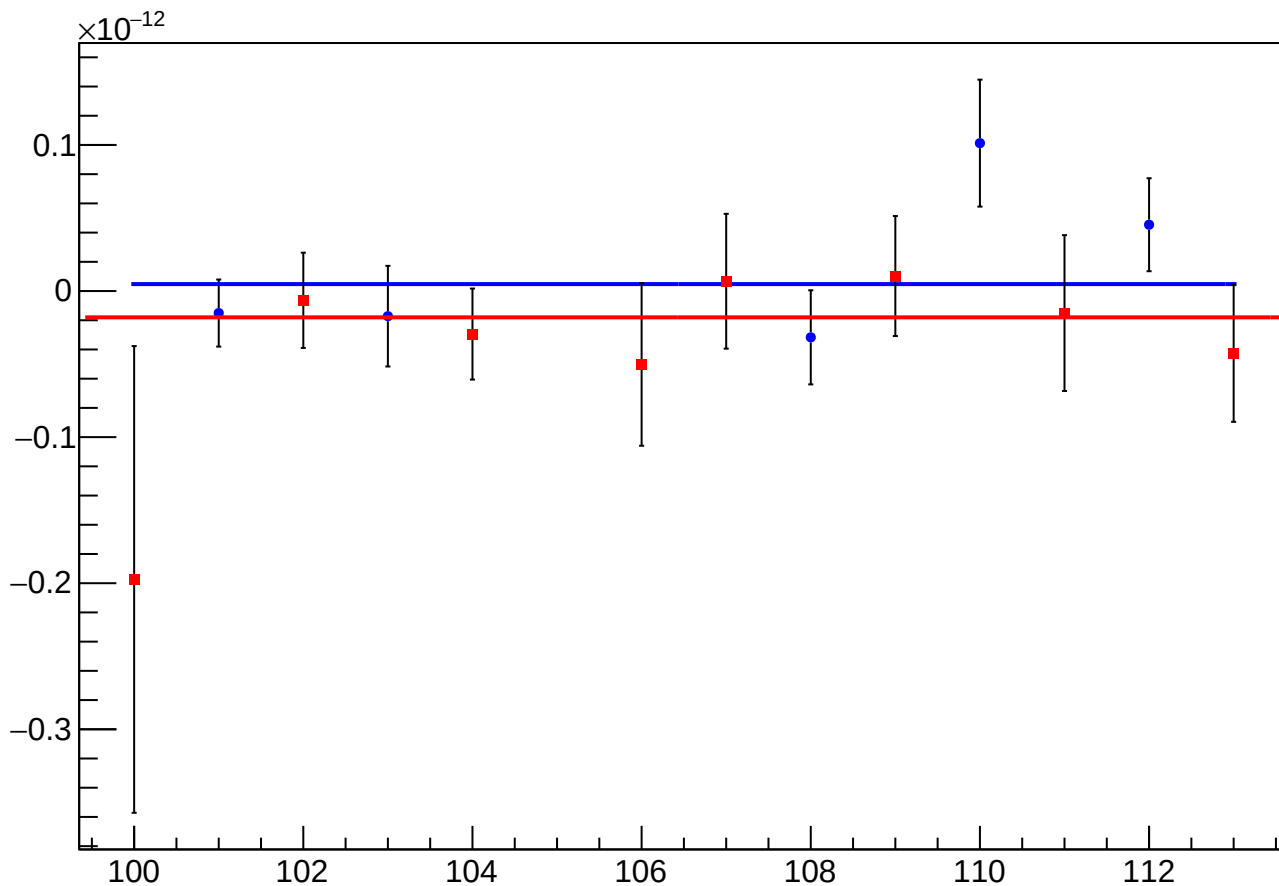
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 59.907 $\pm$ 0.018  $\chi^2$ /NDF: 341871.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.9/7

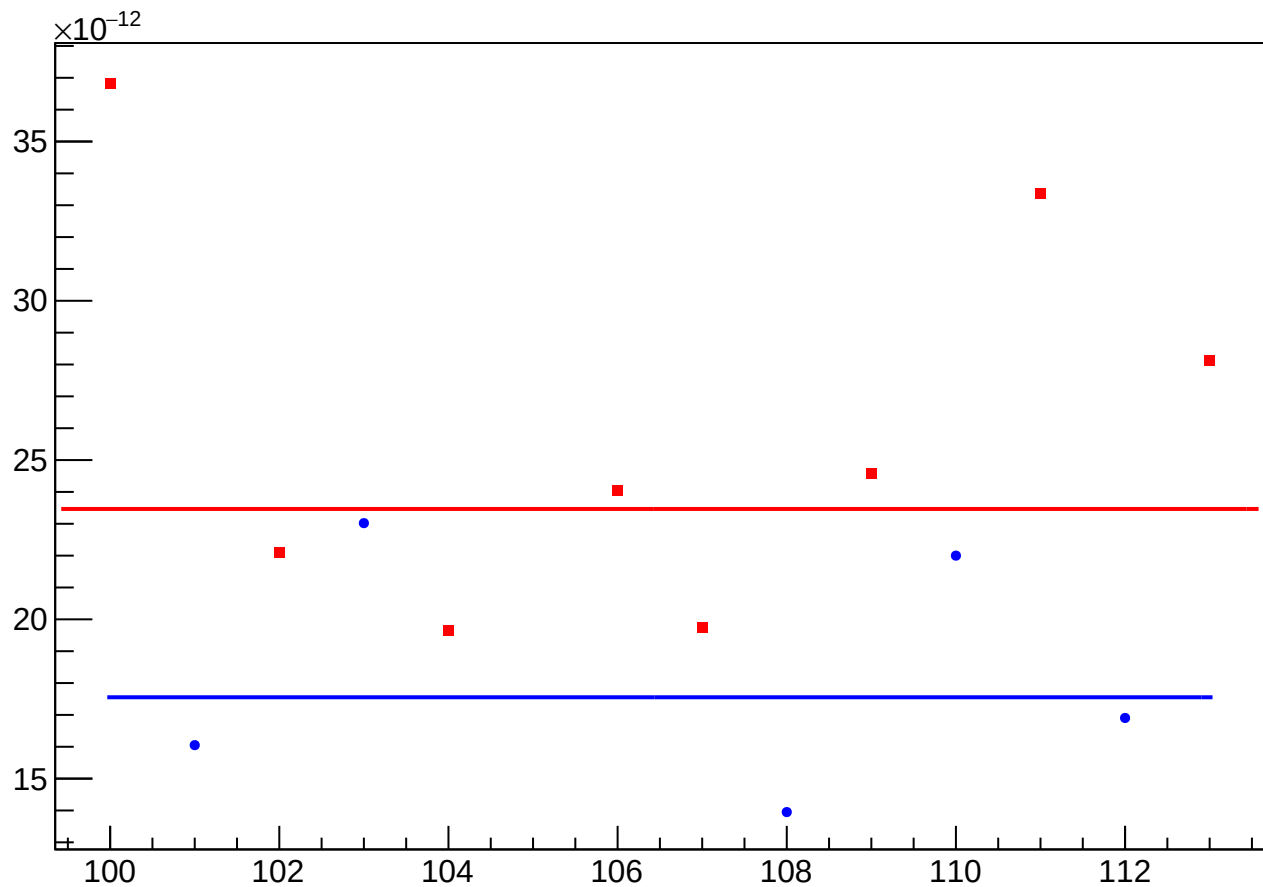
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 105767.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 150499.1/7

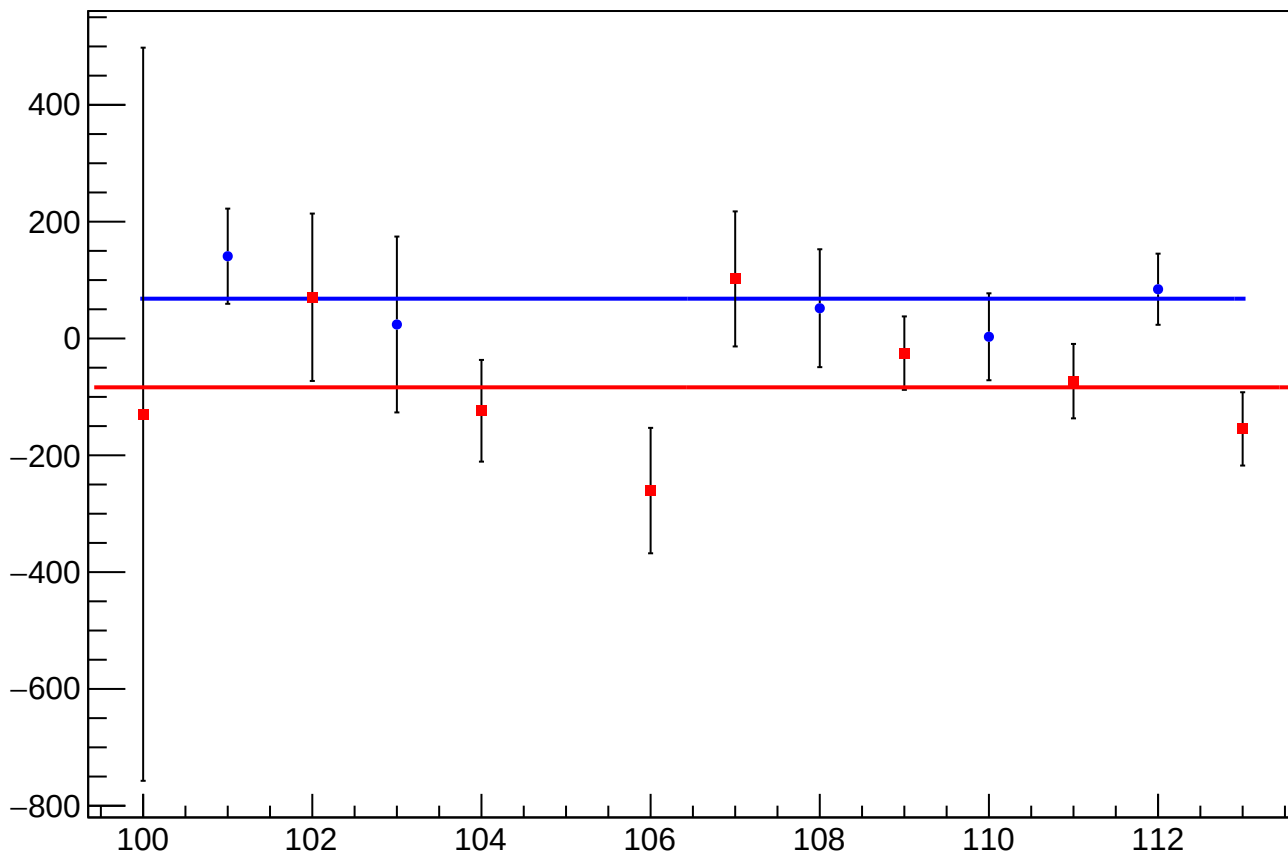
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 418928.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 68.137 $\pm$ 36.681  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -83.600 $\pm$ 30.177  $\chi^2$ /NDF: 8.8/7

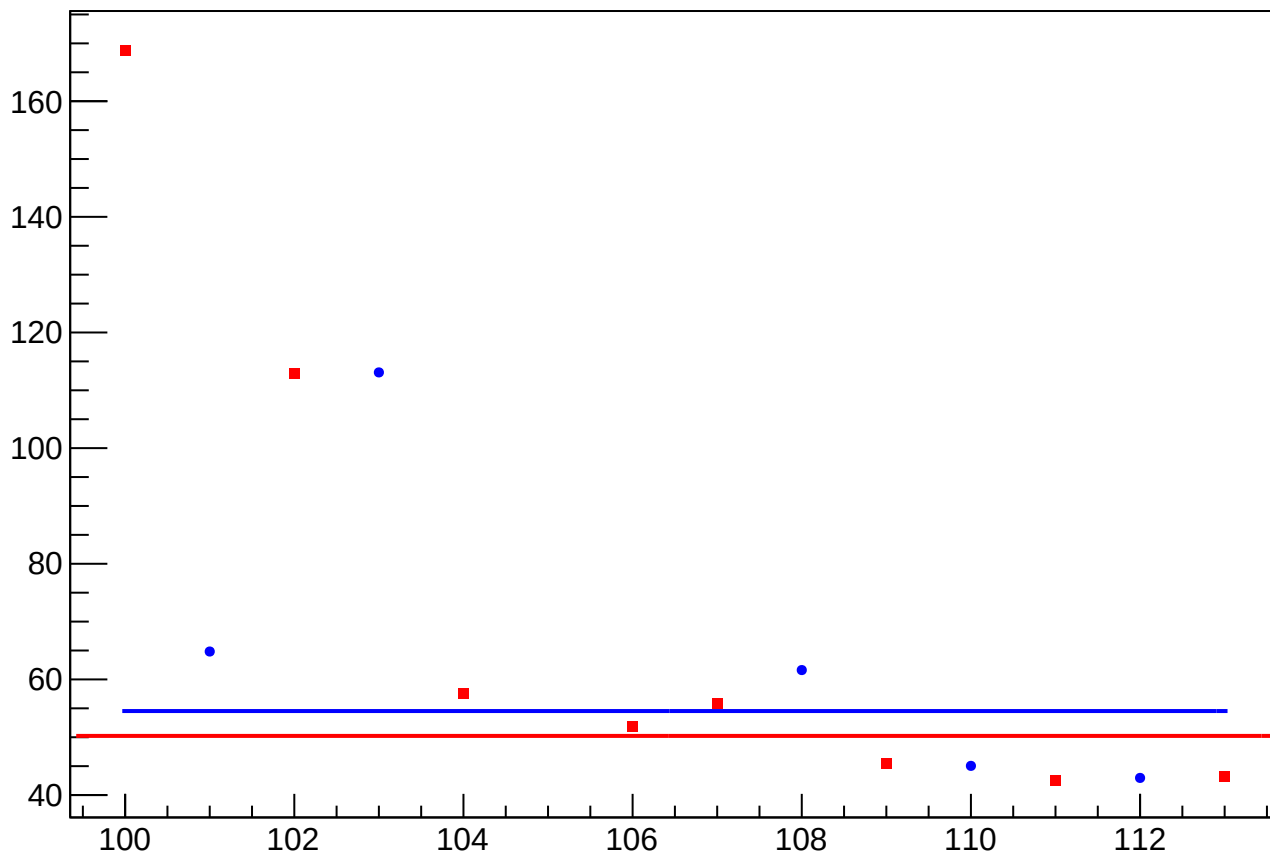
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -22.355 $\pm$ 23.304  $\chi^2$ /NDF: 20.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 54.531+/-0.026  $\chi^2/\text{NDF}$ : 449046.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 50.231+/-0.021  $\chi^2/\text{NDF}$ : 540160.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

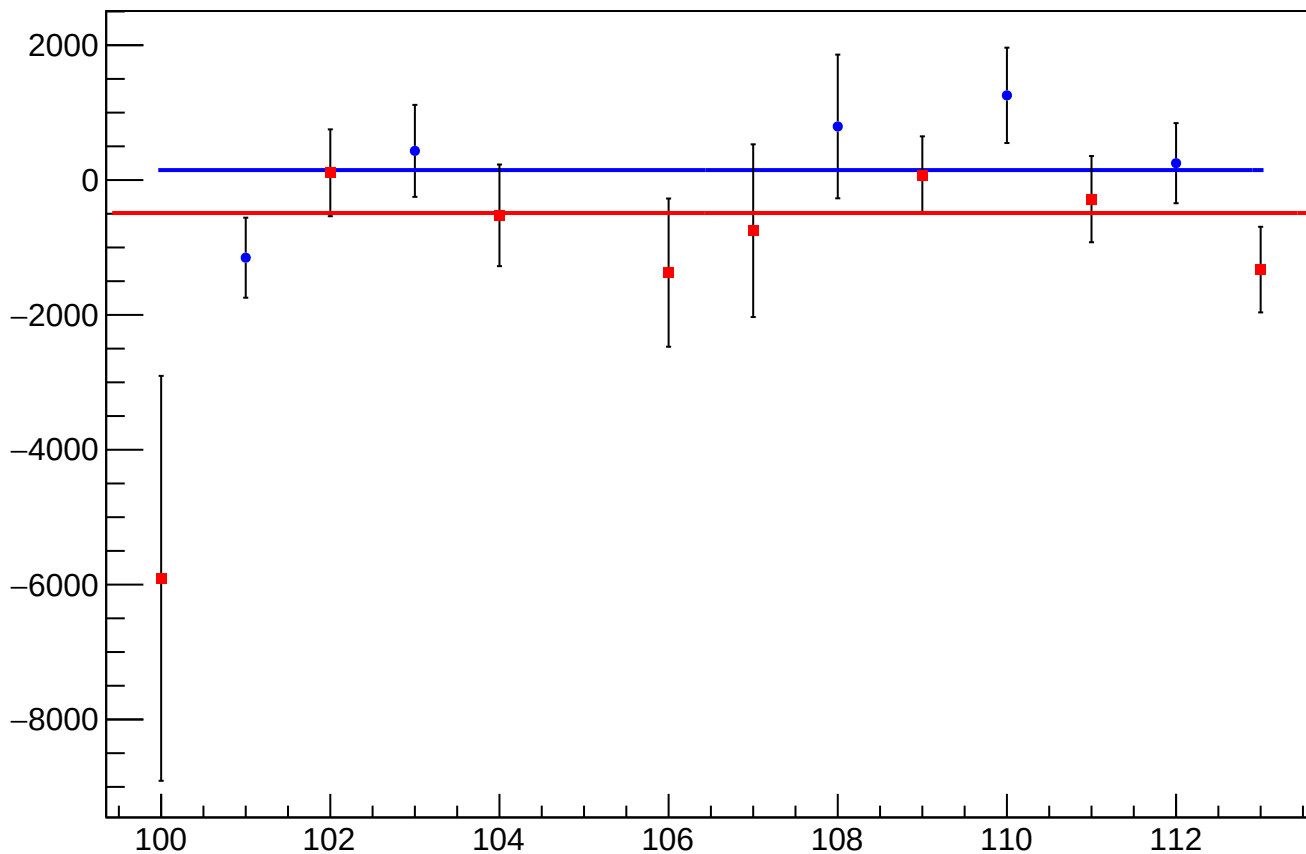
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.966+/-0.016  $\chi^2/\text{NDF}$ : 1005595.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_avg\_reg\_correction\_mean vs Slug



Right In: 147.831+/-305.701  $\chi^2/\text{NDF}$ : 7.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -488.671+/-270.481  $\chi^2/\text{NDF}$ : 7.6/7

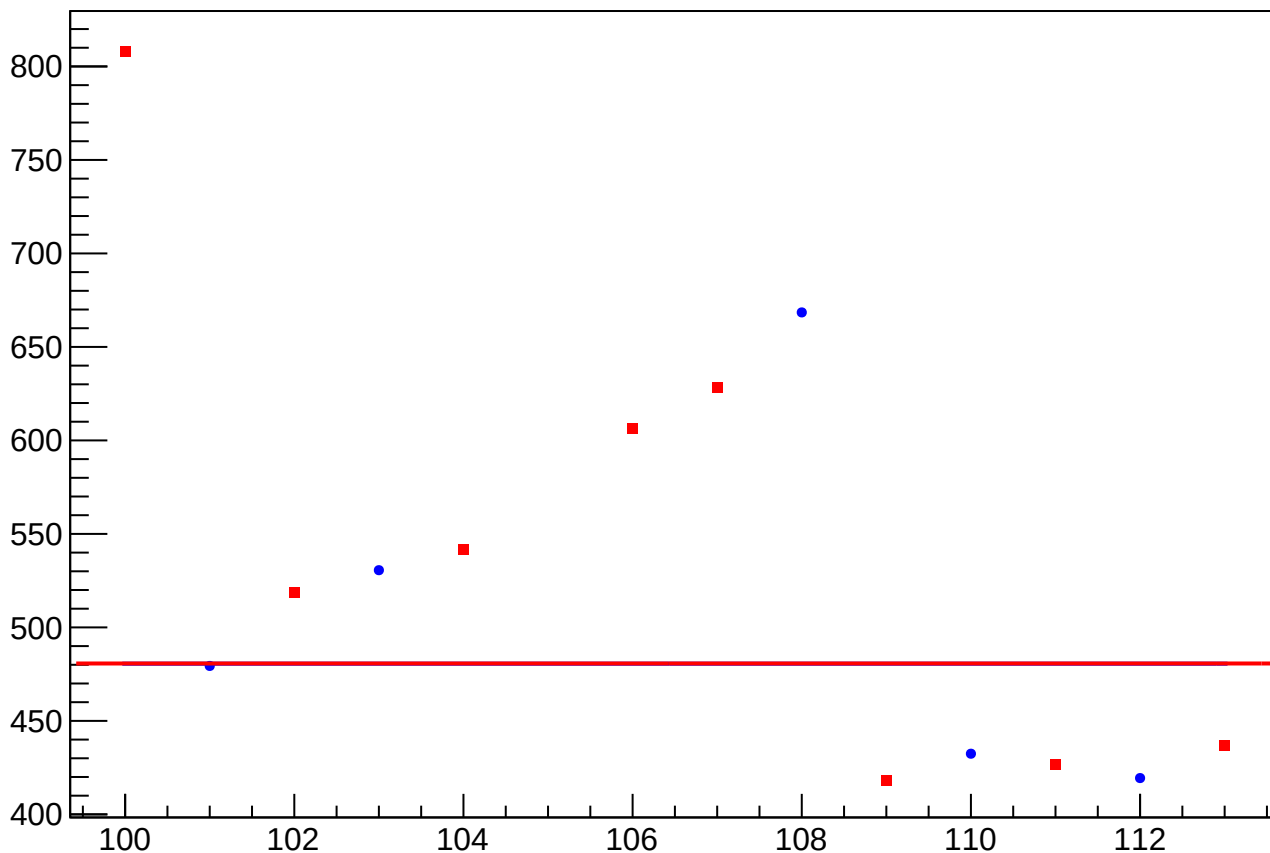
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -209.183+/-202.572  $\chi^2/\text{NDF}$ : 17.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_reg\_correction\_rms vs Slug



Right In: 480.588+/-0.216  $\chi^2/\text{NDF}$ : 103381.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 480.698+/-0.191  $\chi^2/\text{NDF}$ : 143632.4/7

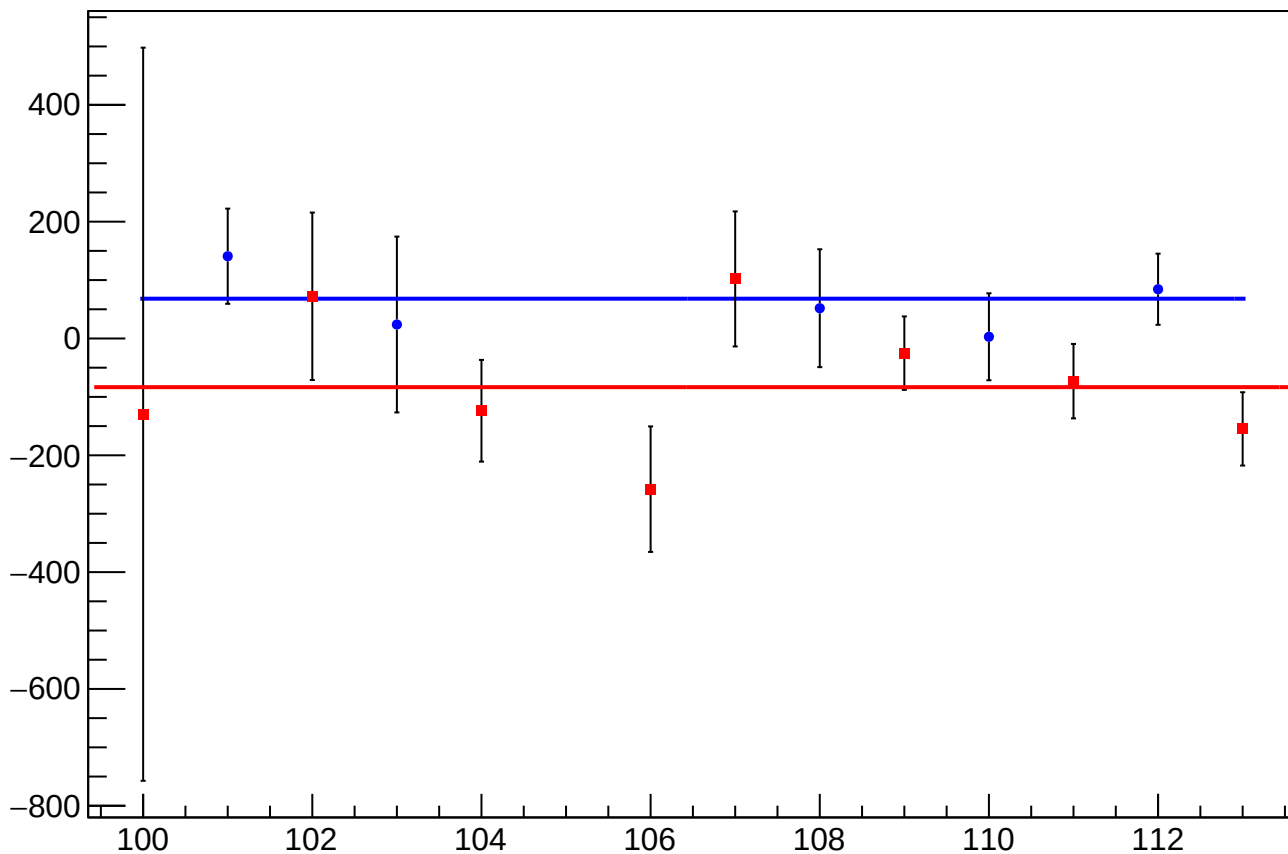
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 480.650+/-0.143  $\chi^2/\text{NDF}$ : 247013.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 68.131+/-36.682  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -83.326+/-30.179  $\chi^2/\text{NDF}$ : 8.8/7

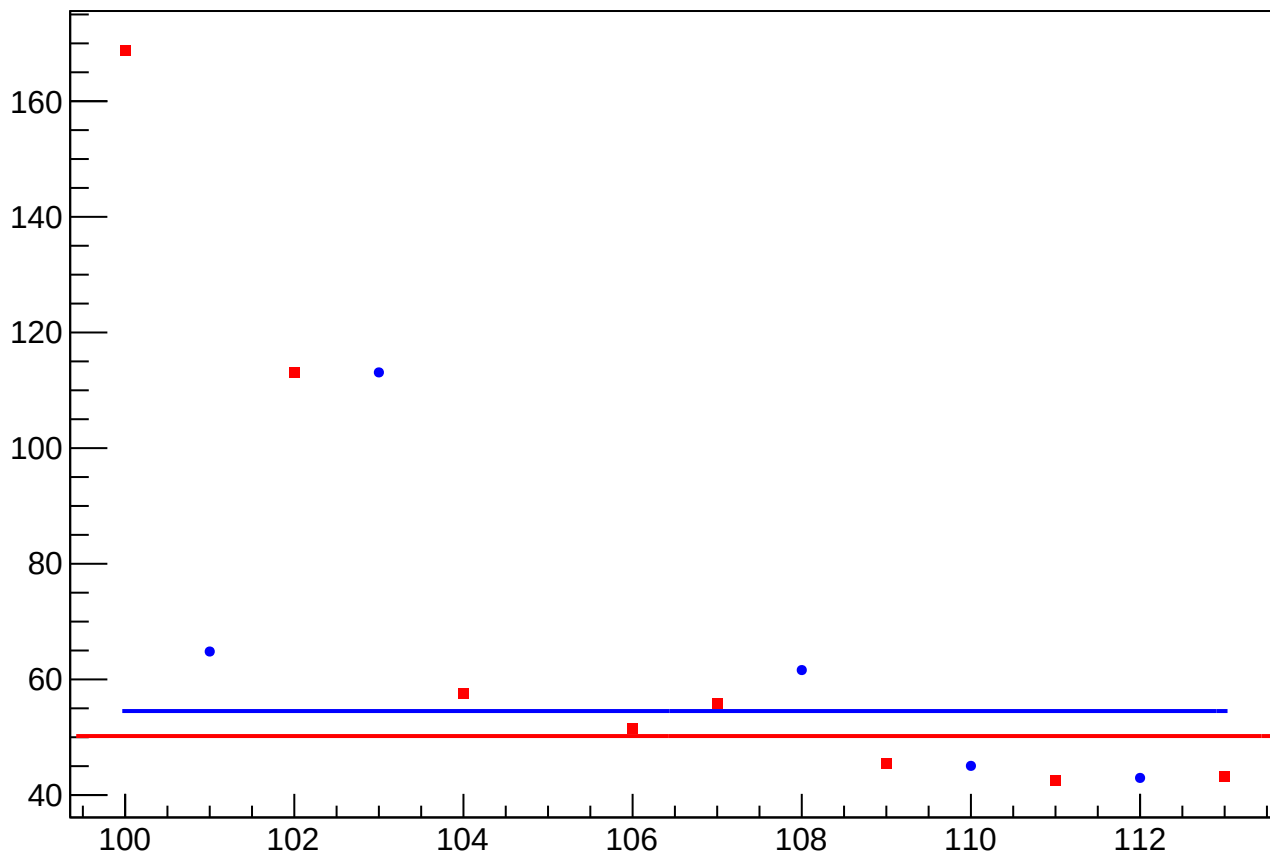
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -22.190+/-23.305  $\chi^2/\text{NDF}$ : 20.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 54.531+/-0.026  $\chi^2/\text{NDF}$ : 449048.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 50.206+/-0.021  $\chi^2/\text{NDF}$ : 540237.6/7

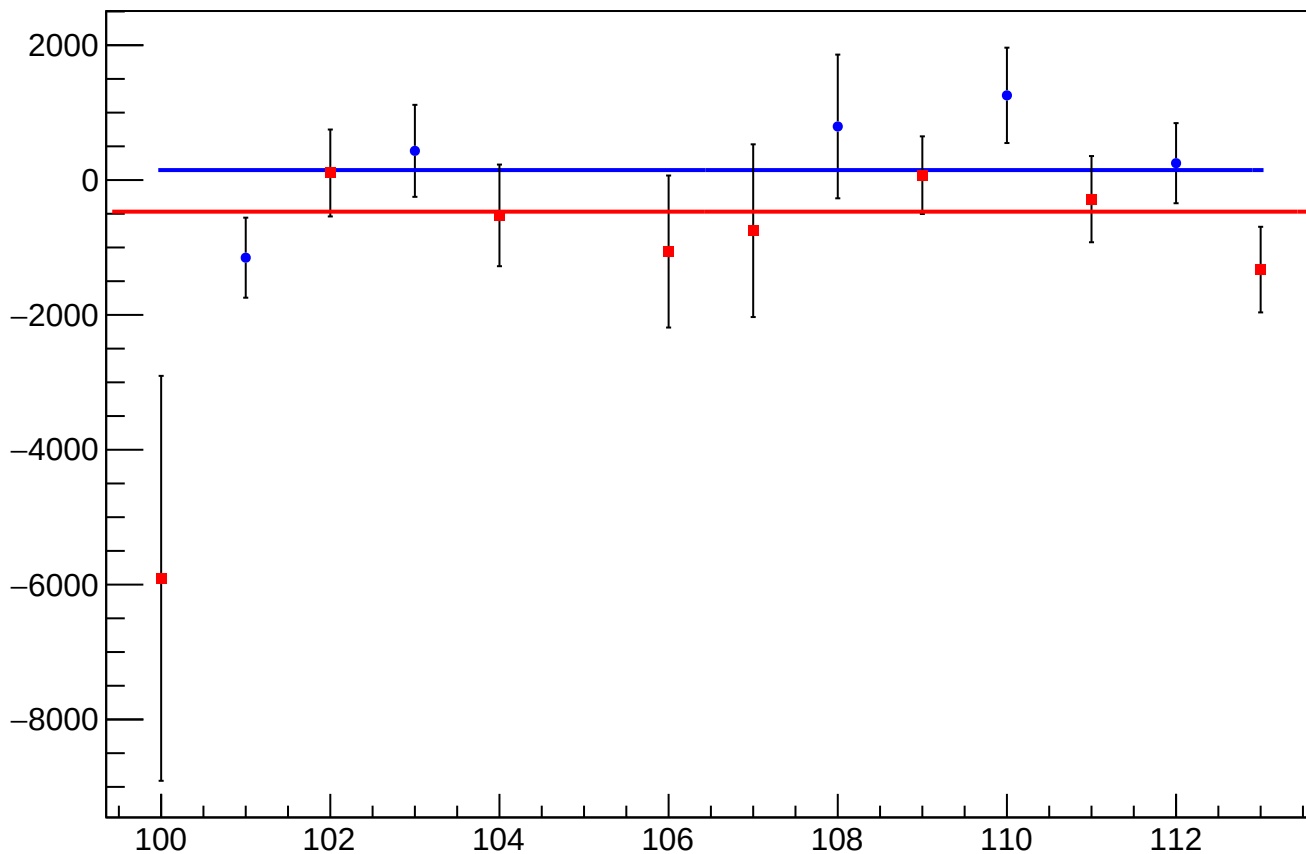
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.952+/-0.016  $\chi^2/\text{NDF}$ : 1005862.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_cor\_correction\_mean vs Slug



Right In: 147.887 $\pm$ 305.708  $\chi^2$ /NDF: 7.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -468.762 $\pm$ 270.932  $\chi^2$ /NDF: 7.2/7

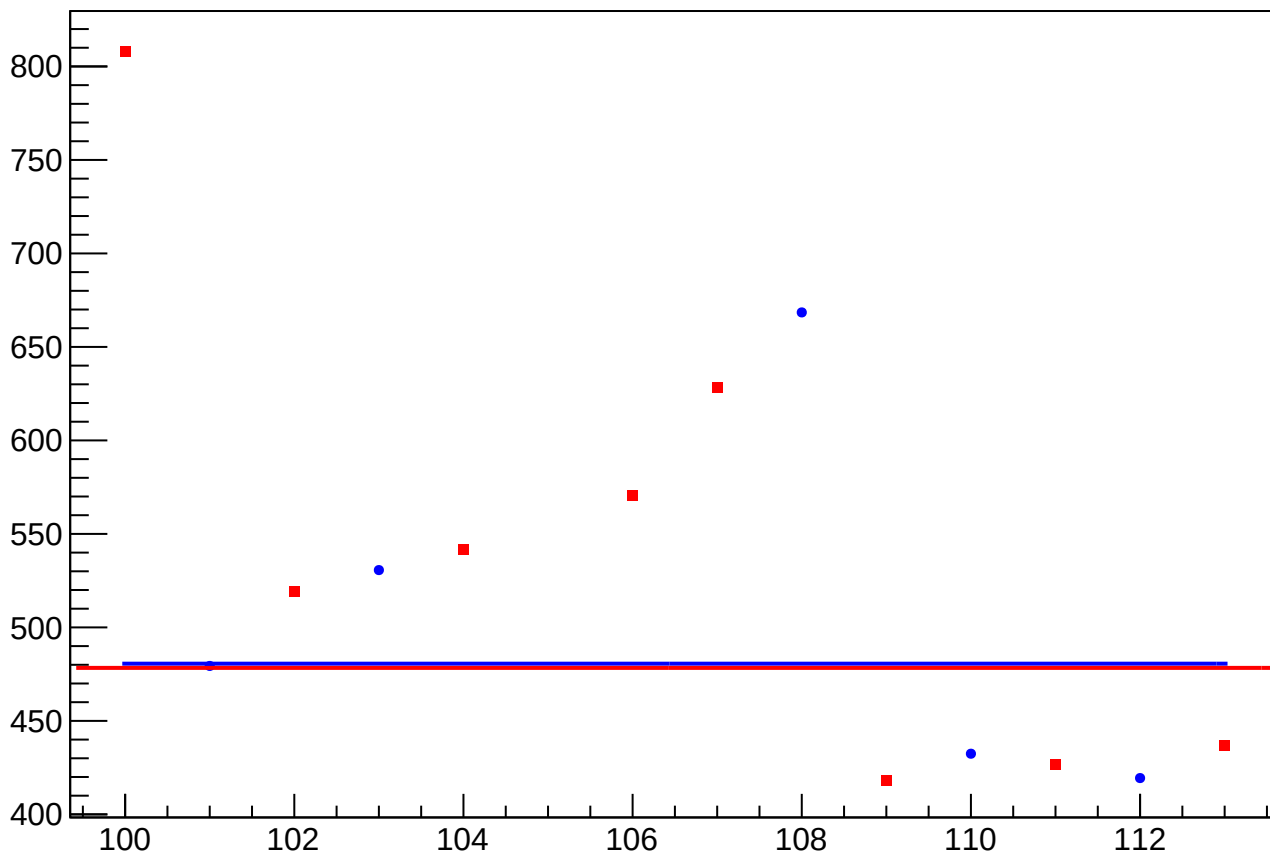
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -197.492 $\pm$ 202.763  $\chi^2$ /NDF: 17.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_cor\_correction\_rms vs Slug



Right In: 480.598 $\pm$ 0.216  $\chi^2$ /NDF: 103402.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 478.346 $\pm$ 0.192  $\chi^2$ /NDF: 130337.5/7

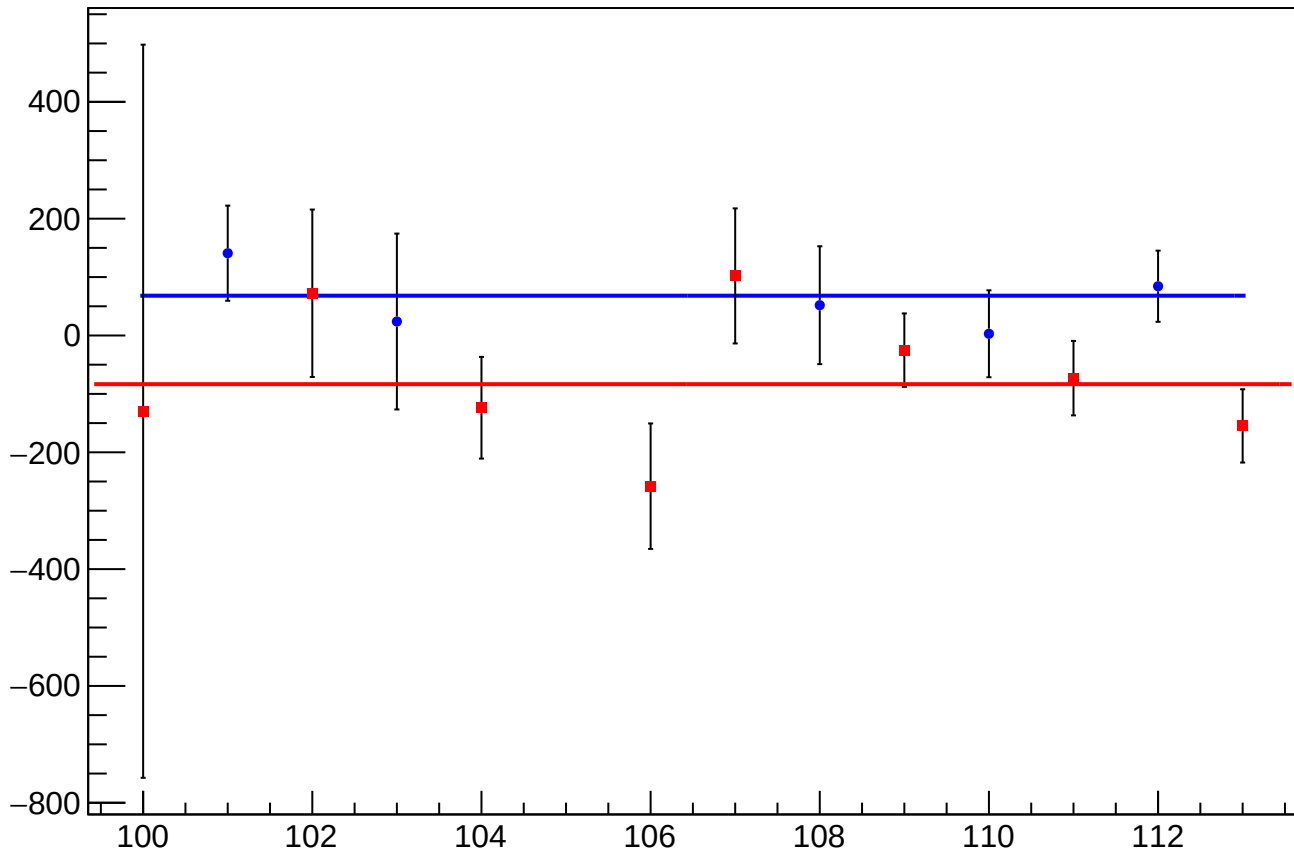
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 479.336 $\pm$ 0.143  $\chi^2$ /NDF: 233800.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 68.131+/-36.682  $\chi^2/\text{NDF}$ : 1.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -83.326+/-30.179  $\chi^2/\text{NDF}$ : 8.8/7

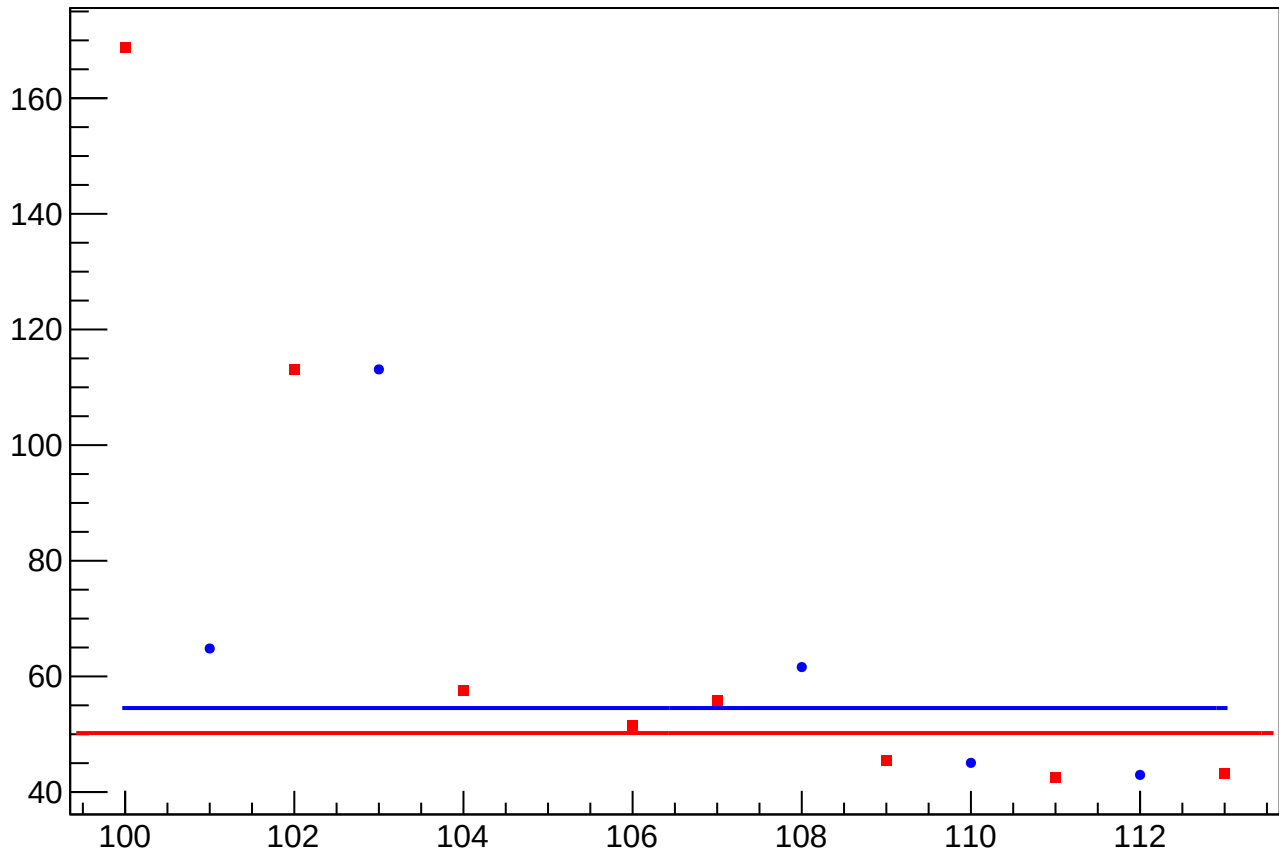
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -22.190+/-23.305  $\chi^2/\text{NDF}$ : 20.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 54.531 $\pm$ 0.026  $\chi^2$ /NDF: 449048.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 50.206 $\pm$ 0.021  $\chi^2$ /NDF: 540237.6/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

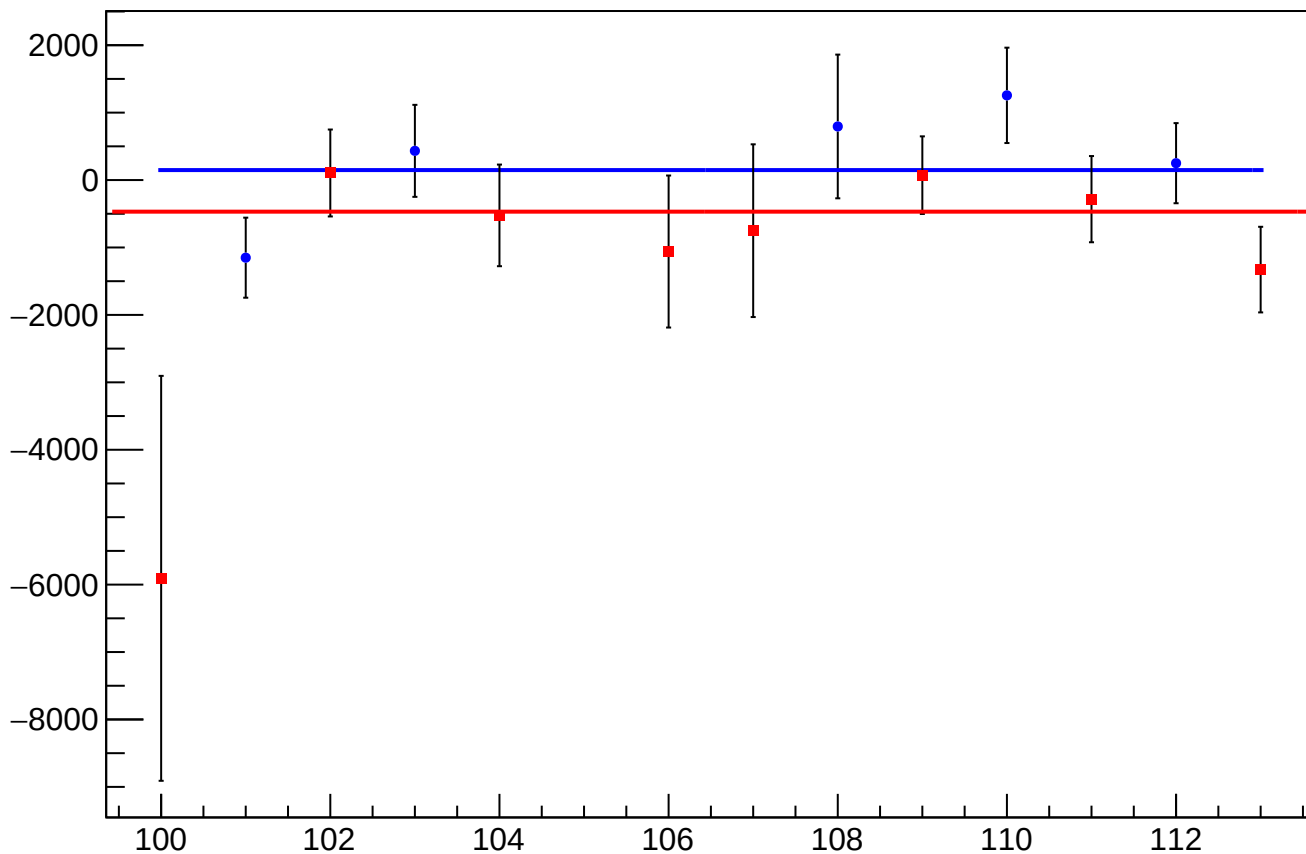
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 51.952 $\pm$ 0.016  $\chi^2$ /NDF: 1005862.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1357\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 147.887 $\pm$ 305.708  $\chi^2$ /NDF: 7.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -468.762 $\pm$ 270.932  $\chi^2$ /NDF: 7.2/7

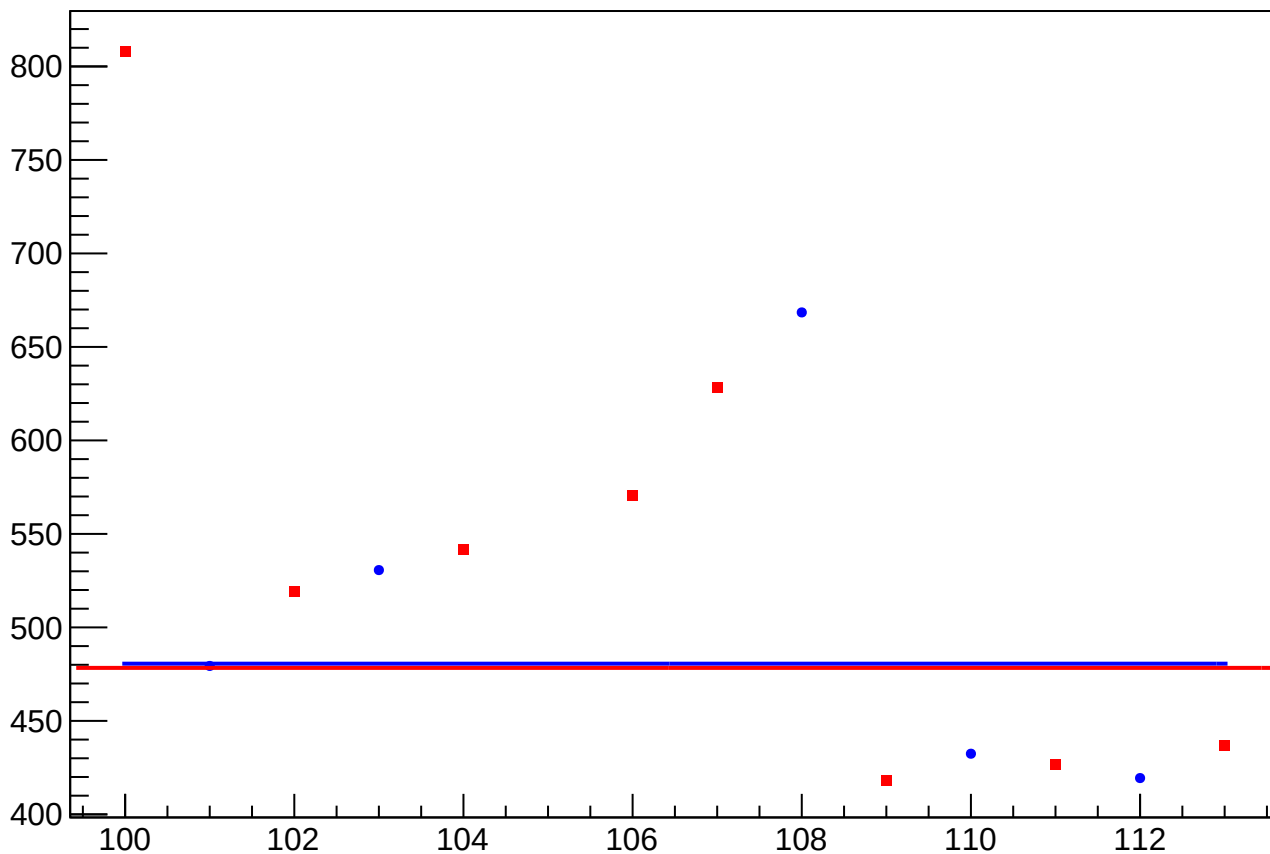
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -197.492 $\pm$ 202.763  $\chi^2$ /NDF: 17.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 480.598 $\pm$ 0.216  $\chi^2$ /NDF: 103402.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 478.346 $\pm$ 0.192  $\chi^2$ /NDF: 130337.5/7

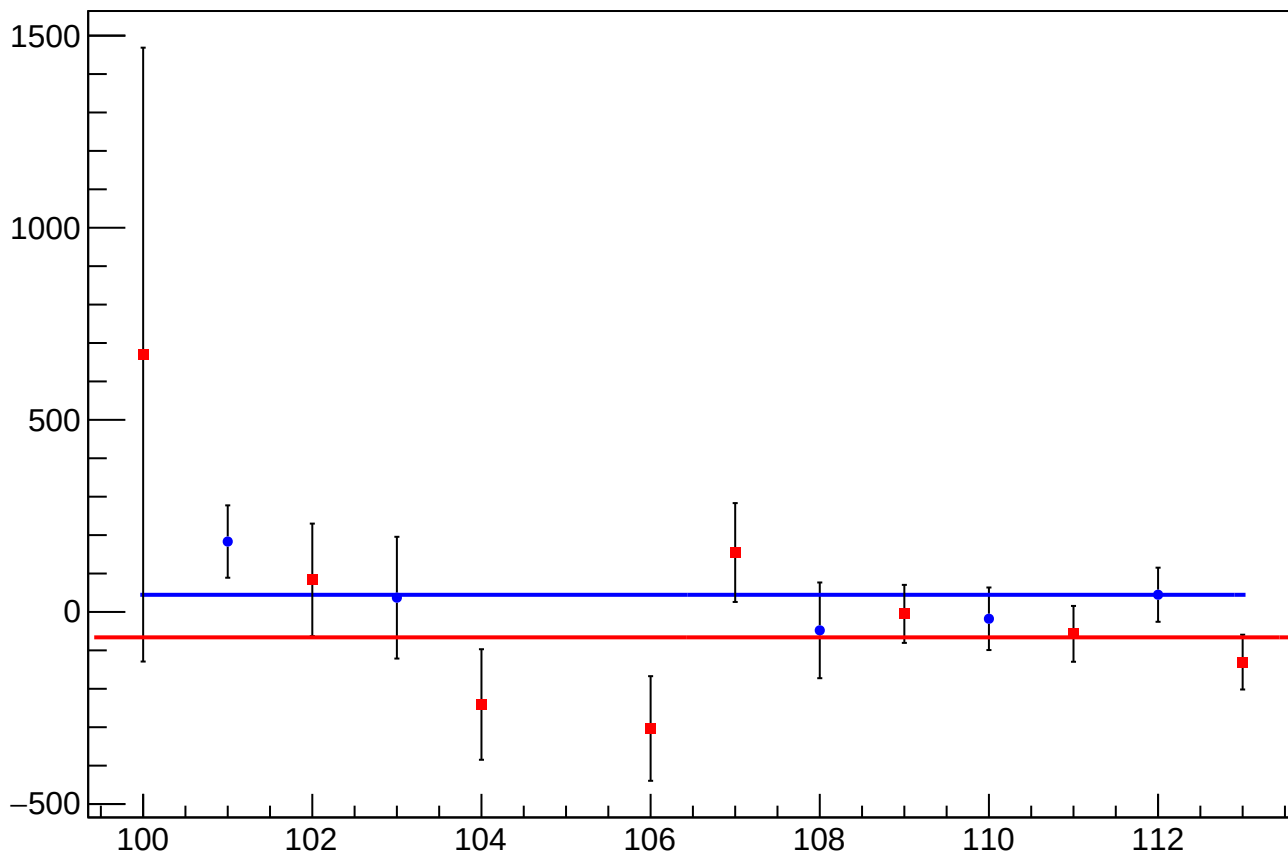
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 479.336 $\pm$ 0.143  $\chi^2$ /NDF: 233800.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 44.607 $\pm$ 41.903  $\chi^2$ /NDF: 3.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -66.109 $\pm$ 35.980  $\chi^2$ /NDF: 10.8/7

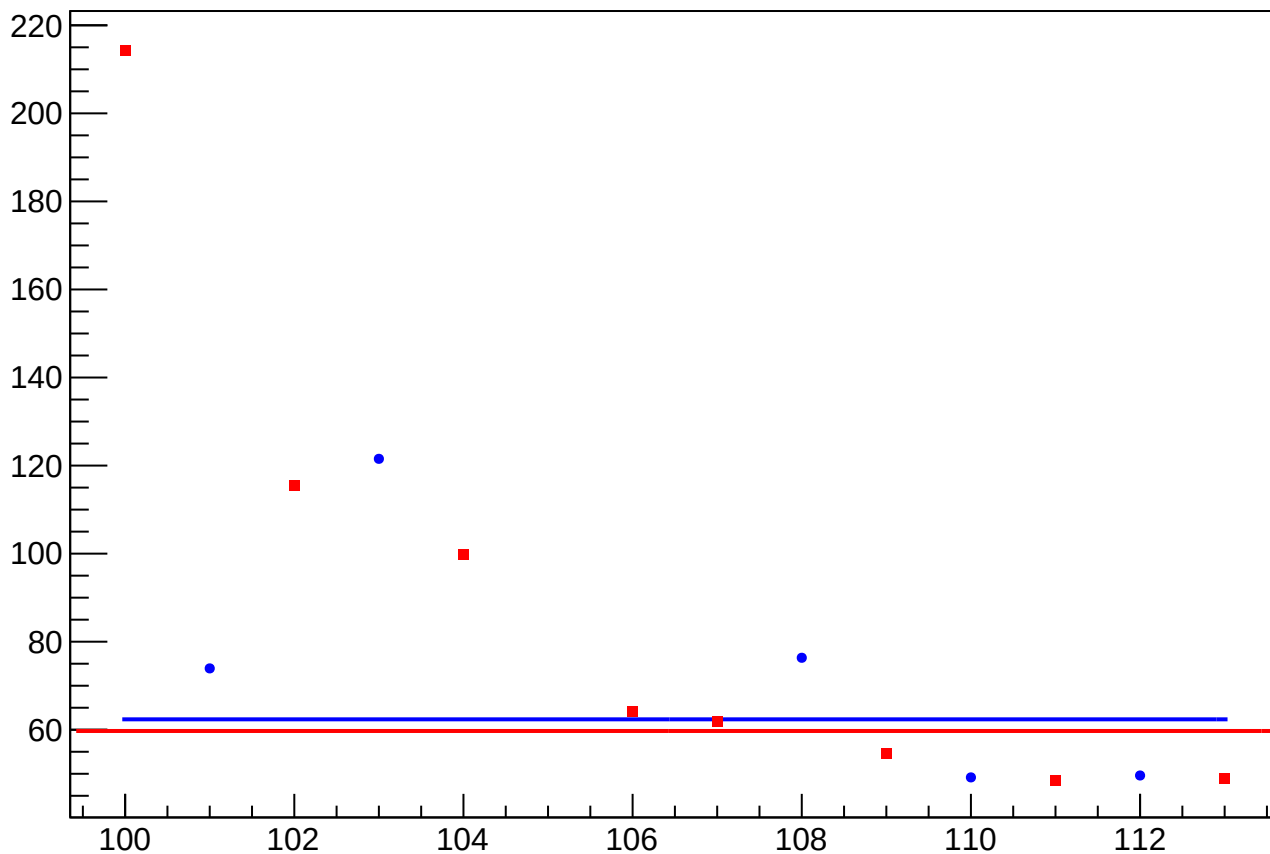
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -19.122 $\pm$ 27.298  $\chi^2$ /NDF: 18.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 62.367 $\pm$ 0.030  $\chi^2$ /NDF: 452343.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 59.721 $\pm$ 0.025  $\chi^2$ /NDF: 627061.6/7

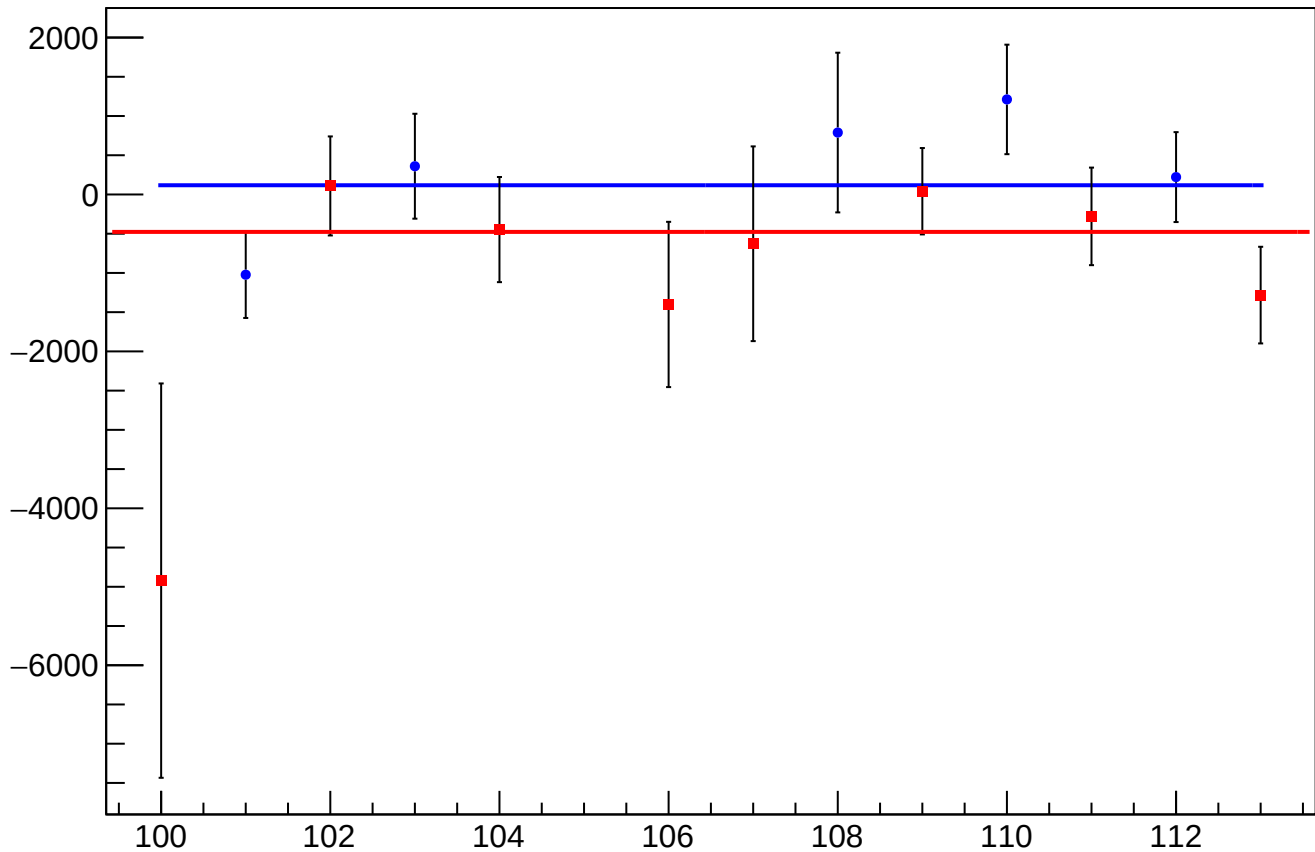
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 60.844 $\pm$ 0.019  $\chi^2$ /NDF: 1083995.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_dit\_correction\_mean vs Slug



Right In: 117.619 $\pm$ 293.695  $\chi^2$ /NDF: 7.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -477.003 $\pm$ 258.451  $\chi^2$ /NDF: 7.5/7

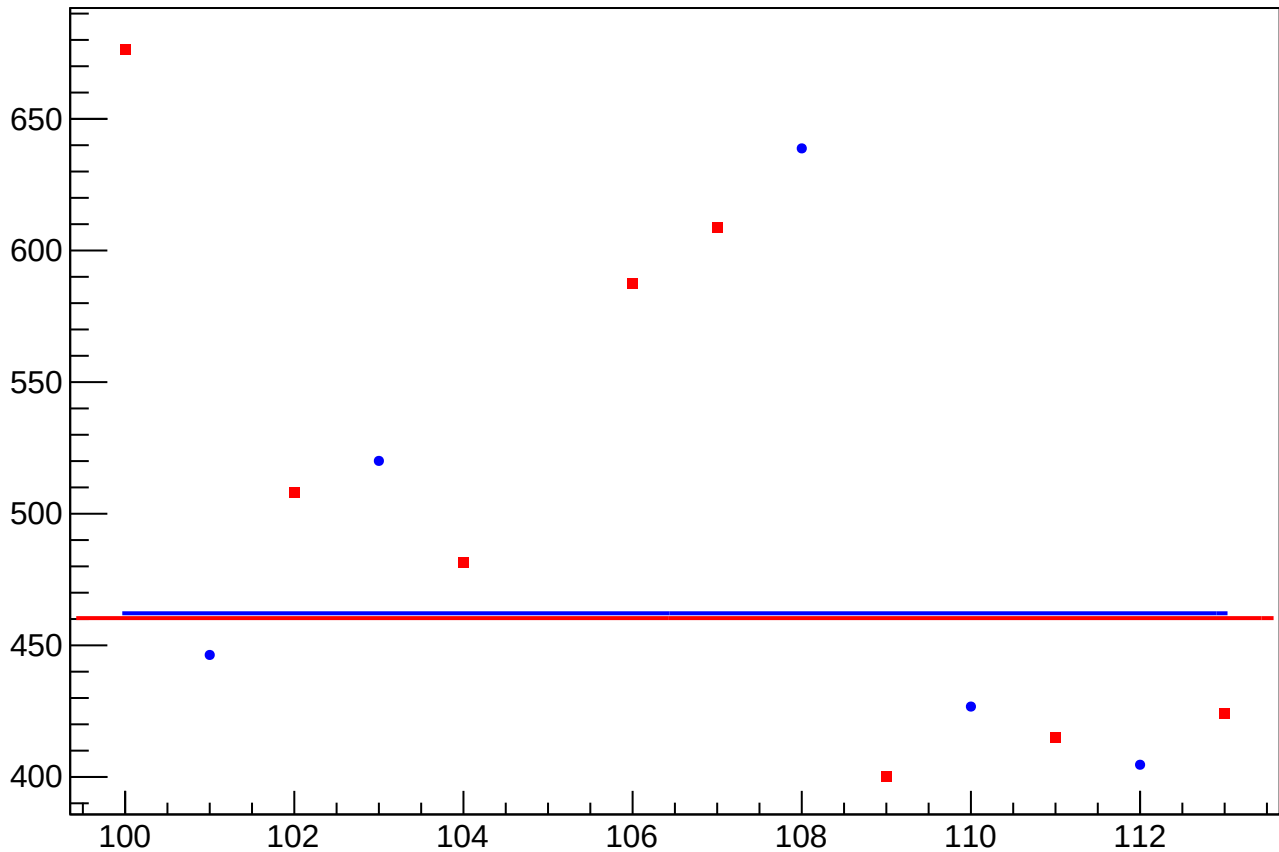
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -217.493 $\pm$ 194.023  $\chi^2$ /NDF: 17.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1357\_avg\_dit\_correction\_rms vs Slug



Right In: 462.183+/-0.208  $\chi^2/\text{NDF}$ : 102206.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 460.346+/-0.183  $\chi^2/\text{NDF}$ : 127490.7/7

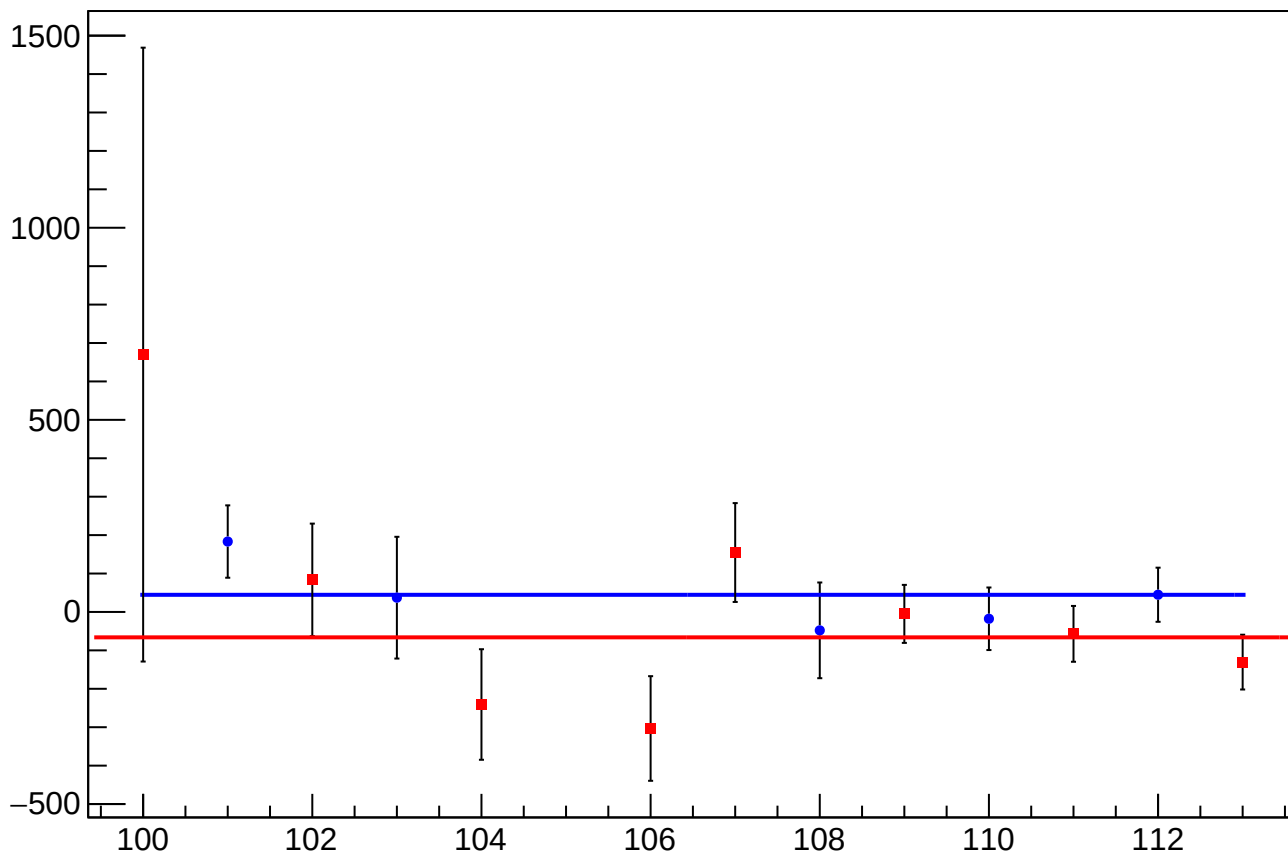
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 461.147+/-0.137  $\chi^2/\text{NDF}$ : 229741.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 44.606 $\pm$ 41.903  $\chi^2$ /NDF: 3.3/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -66.108 $\pm$ -35.980  $\chi^2$ /NDF: 10.8/7

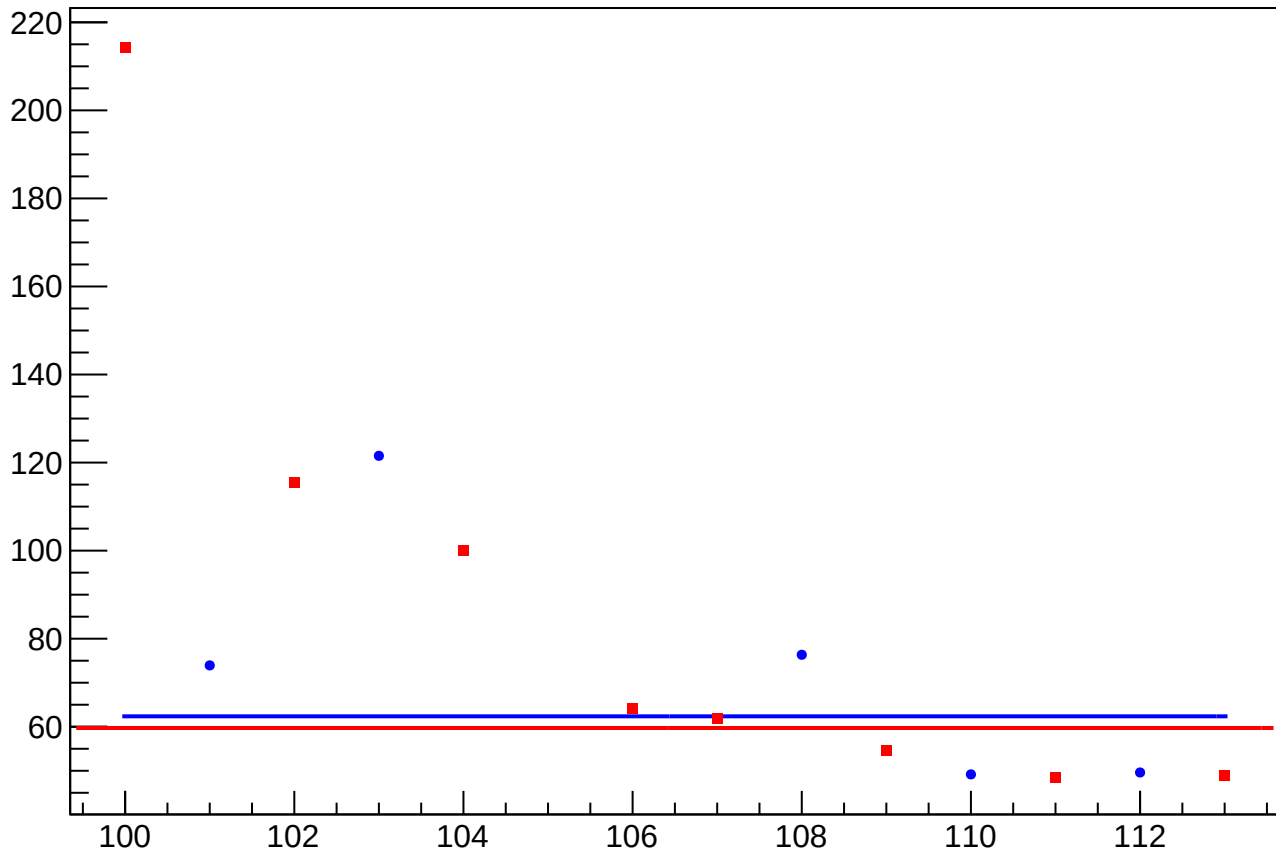
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -19.122 $\pm$ -27.298  $\chi^2$ /NDF: 18.2/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 62.367 $\pm$ 0.030  $\chi^2$ /NDF: 452344.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 59.721 $\pm$ 0.025  $\chi^2$ /NDF: 627062.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

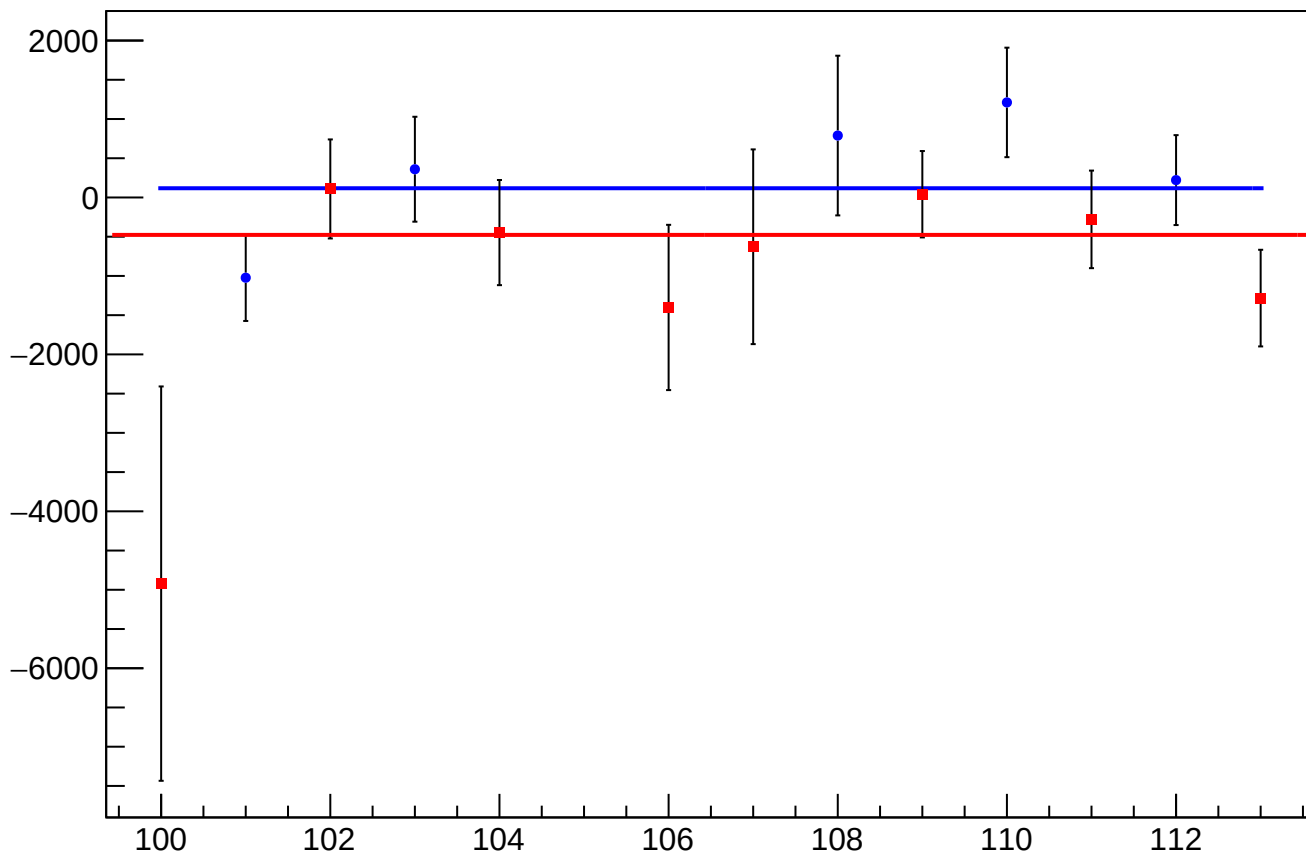
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 60.844 $\pm$ 0.019  $\chi^2$ /NDF: 1083997.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1357\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 117.618+/-293.694  $\chi^2/\text{NDF}$ : 7.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -477.002+/-258.450  $\chi^2/\text{NDF}$ : 7.5/7

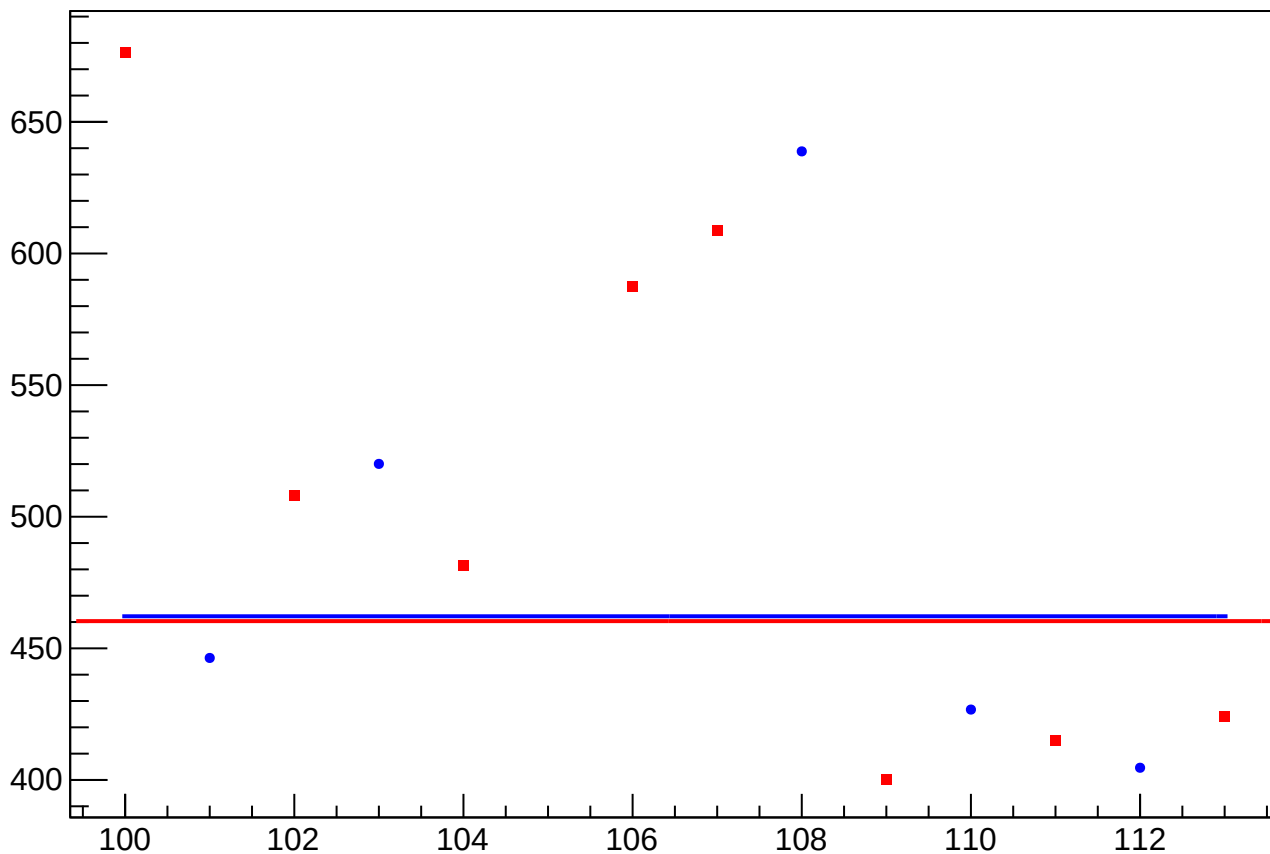
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -217.493+/-194.022  $\chi^2/\text{NDF}$ : 17.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 462.181+/-0.208  $\chi^2/\text{NDF}$ : 102206.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 460.345+/-0.183  $\chi^2/\text{NDF}$ : 127490.6/7

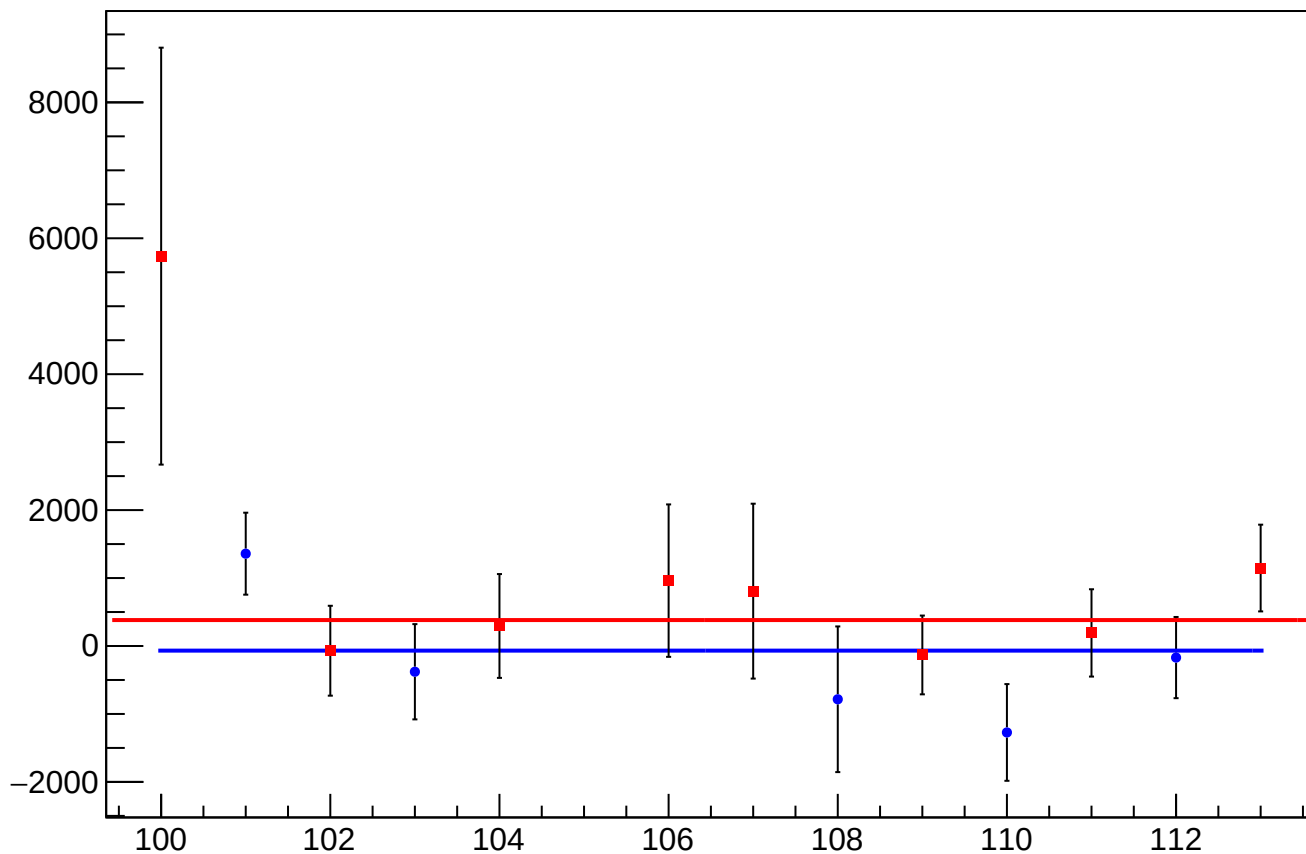
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 461.146+/-0.137  $\chi^2/\text{NDF}$ : 229741.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_avg\_mean vs Slug



Right In:  $-67.970 \pm 309.619$   $\chi^2/\text{NDF}$ : 9.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $381.715 \pm 273.599$   $\chi^2/\text{NDF}$ : 6.2/7

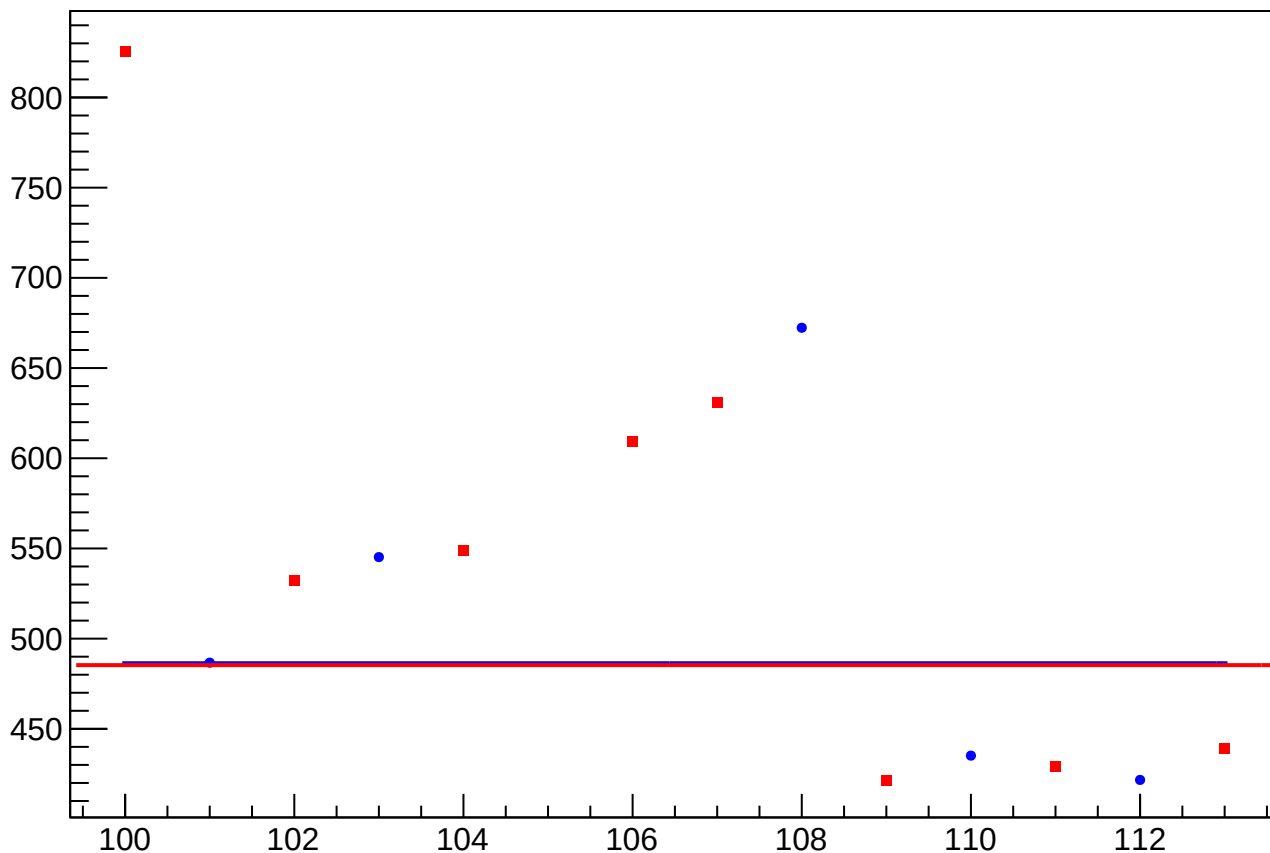
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $184.540 \pm 205.021$   $\chi^2/\text{NDF}$ : 16.5/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_avg\_rms vs Slug



Right In: 486.375 $\pm$ 0.219  $\chi^2$ /NDF: 108112.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 485.319 $\pm$ 0.193  $\chi^2$ /NDF: 148754.1/7

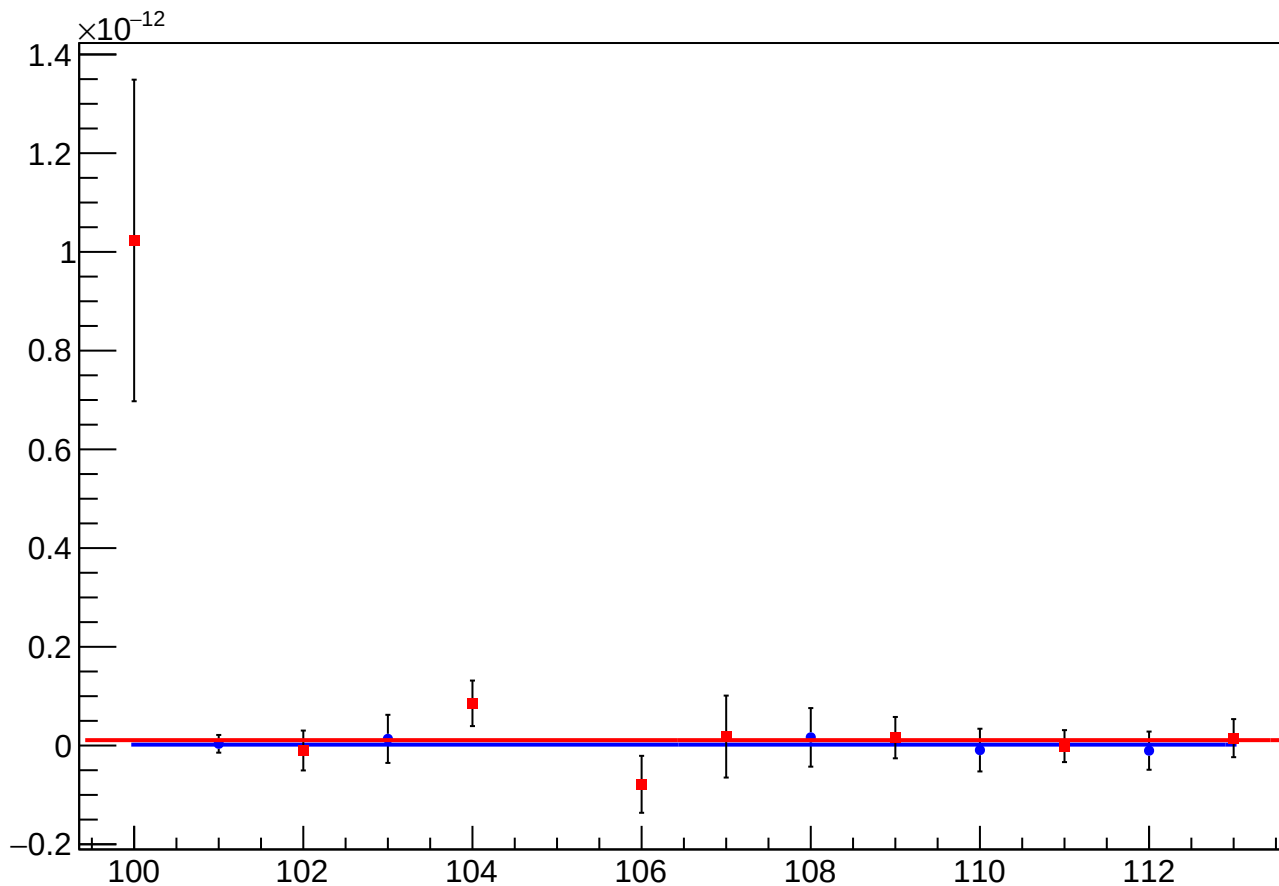
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 485.782 $\pm$ 0.145  $\chi^2$ /NDF: 256879.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.1/7

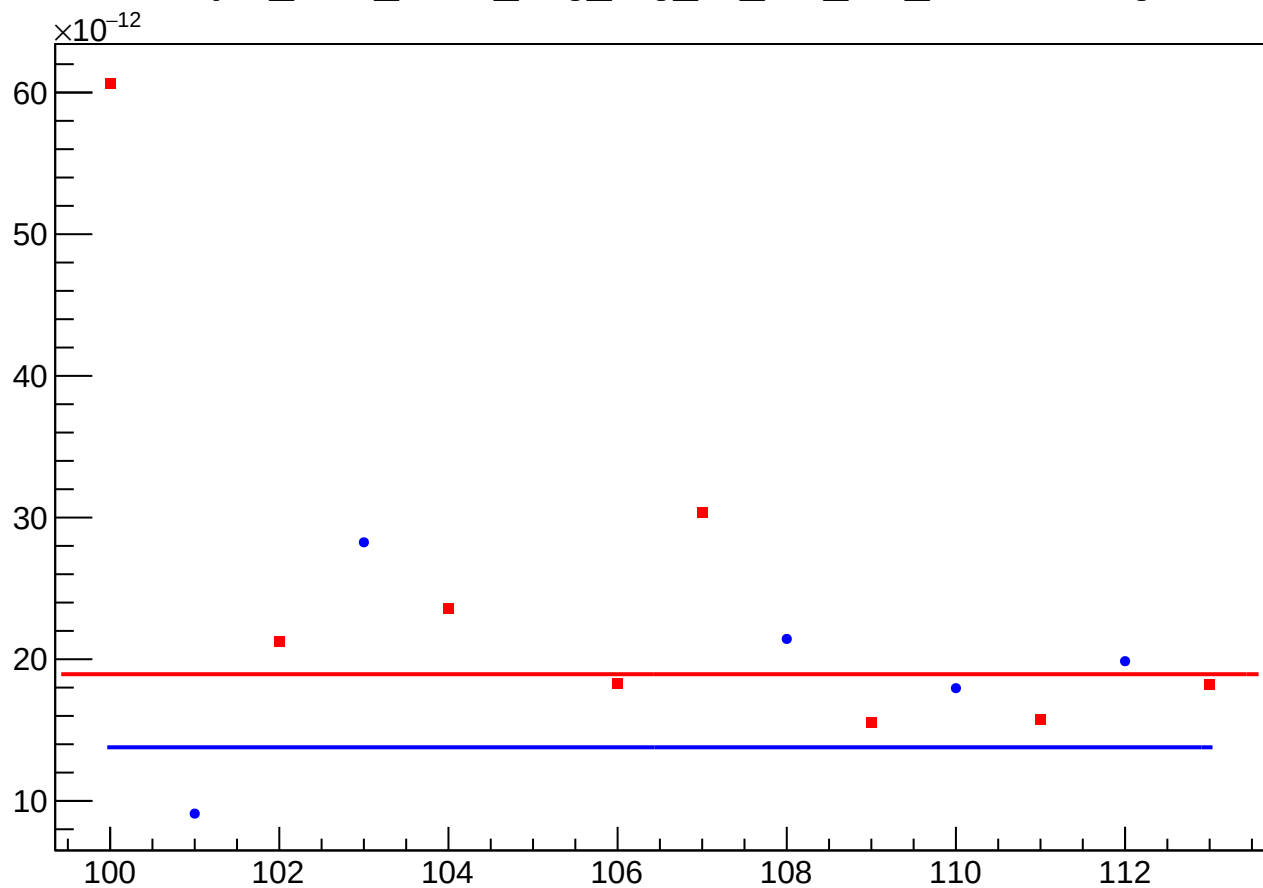
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 413962.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 131185.2/7

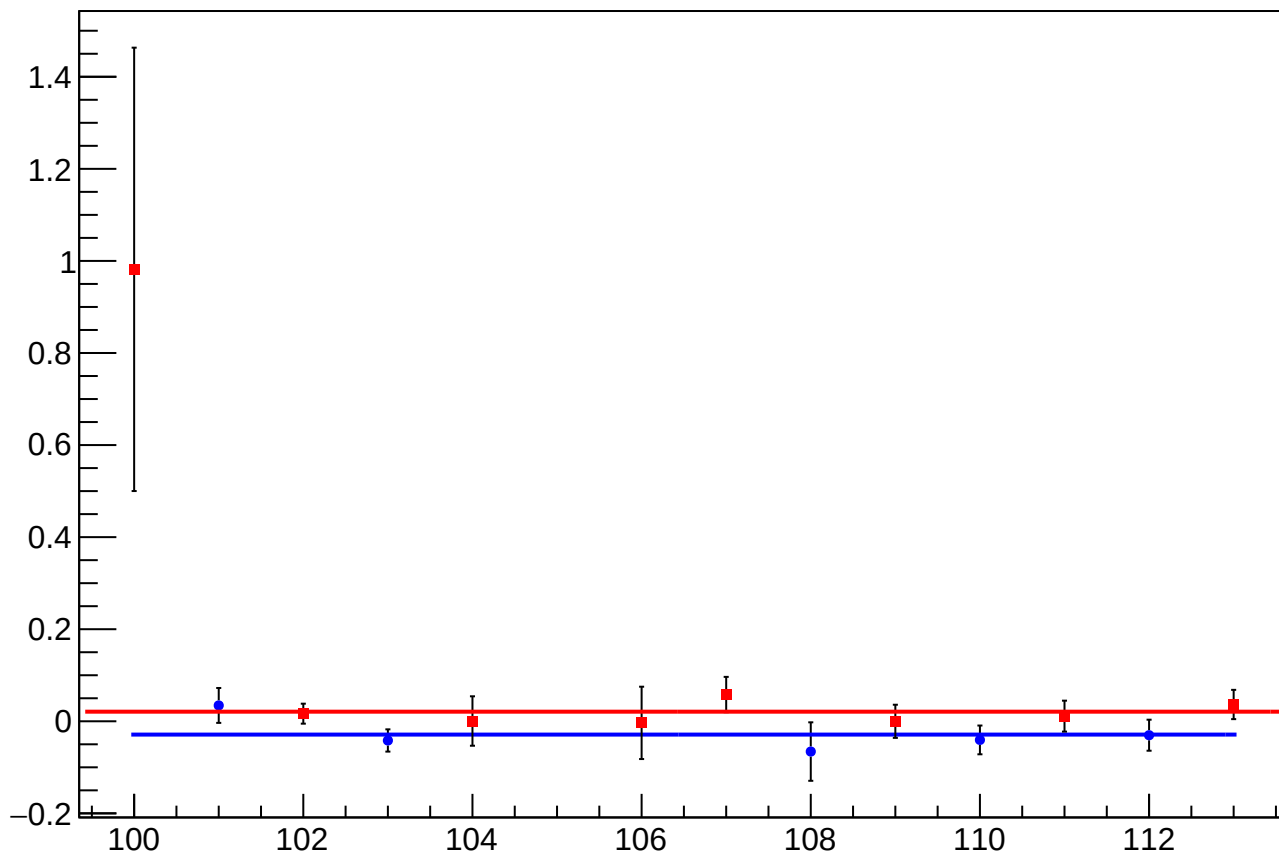
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 659094.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.029 $\pm$ 0.015  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.021 $\pm$ 0.013  $\chi^2$ /NDF: 5.9/7

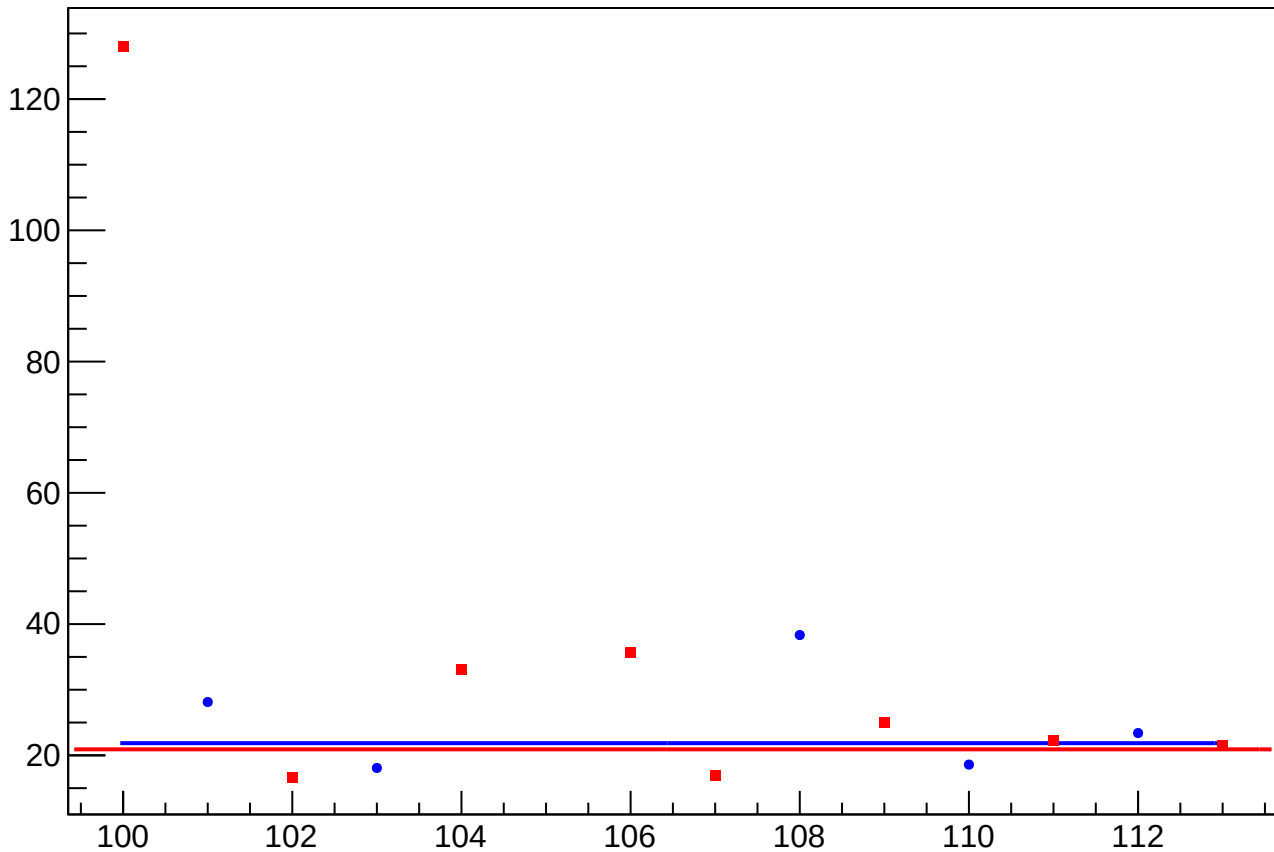
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.001 $\pm$ 0.010  $\chi^2$ /NDF: 15.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 21.855+/-0.010  $\chi^2/\text{NDF}$ : 264290.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.916+/-0.009  $\chi^2/\text{NDF}$ : 403420.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

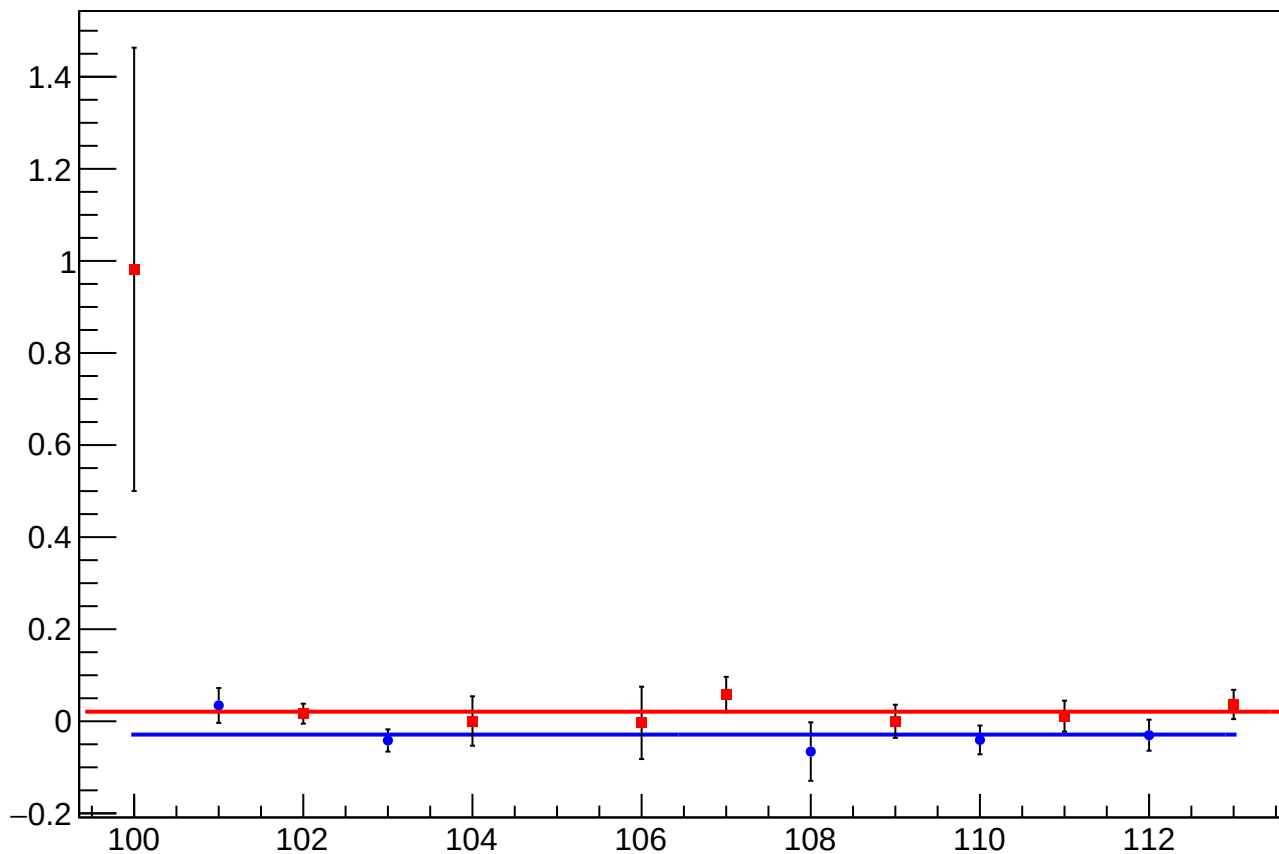
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.323+/-0.007  $\chi^2/\text{NDF}$ : 672272.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.029 $\pm$ 0.015  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.021 $\pm$ 0.013  $\chi^2$ /NDF: 5.9/7

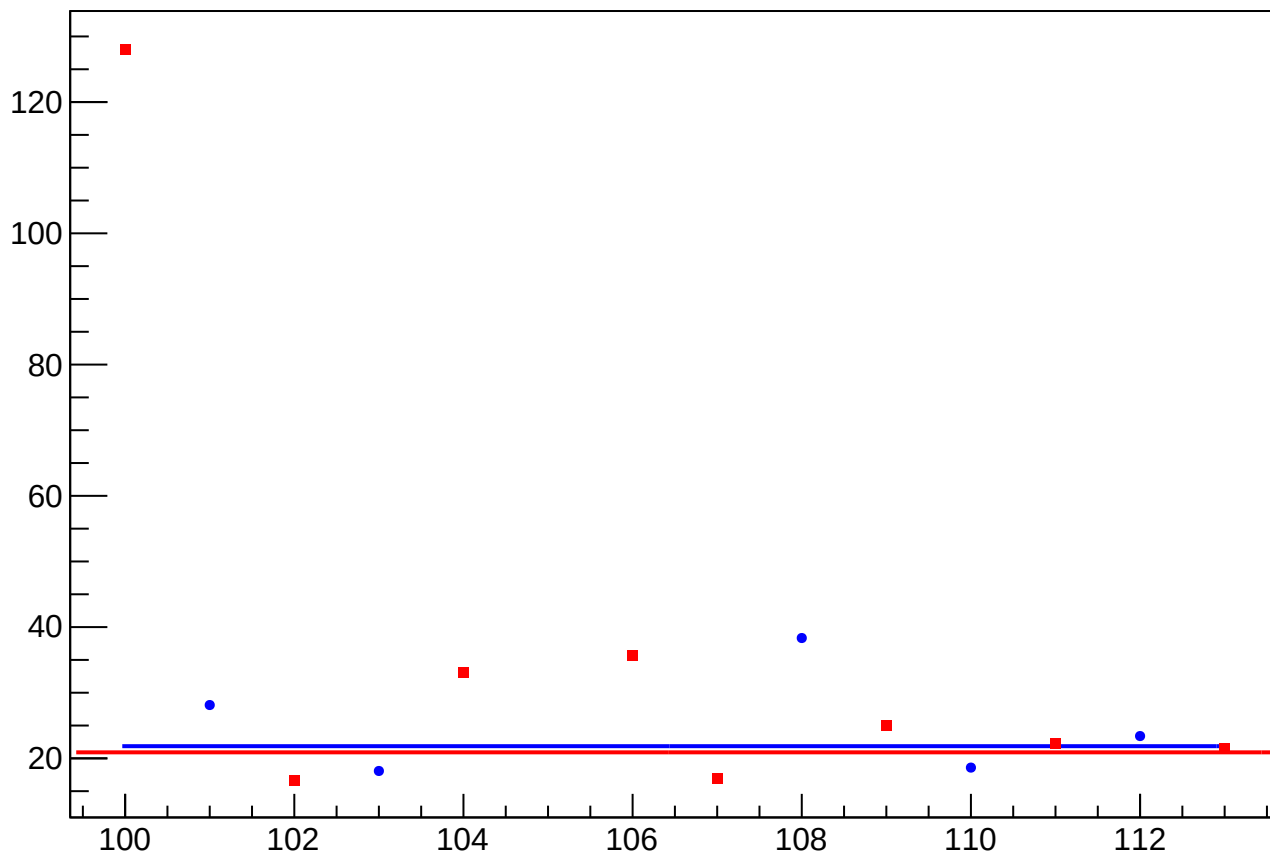
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.001 $\pm$ 0.010  $\chi^2$ /NDF: 15.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 21.855+/-0.010  $\chi^2/\text{NDF}$ : 264290.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.916+/-0.009  $\chi^2/\text{NDF}$ : 403420.7/7

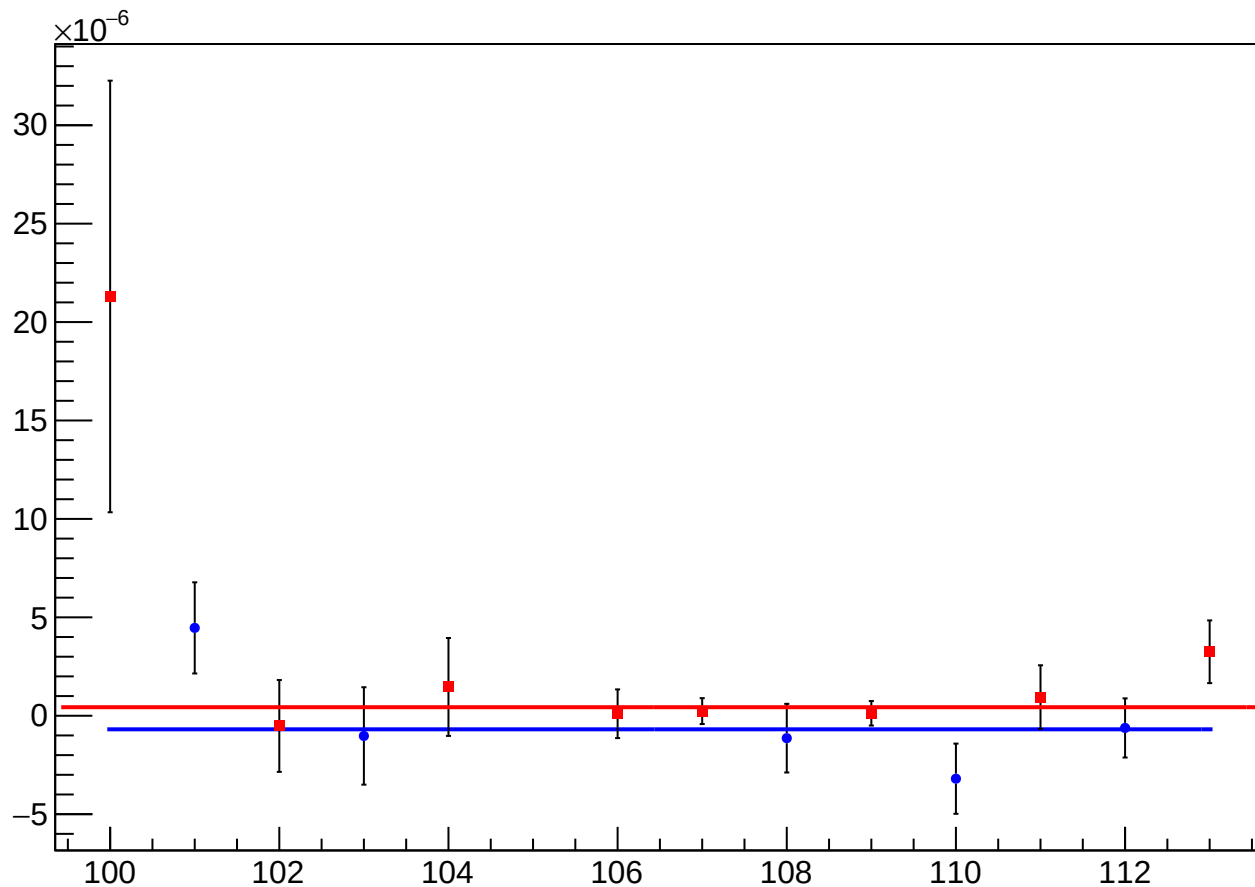
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.323+/-0.007  $\chi^2/\text{NDF}$ : 672272.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 7.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 7.6/7

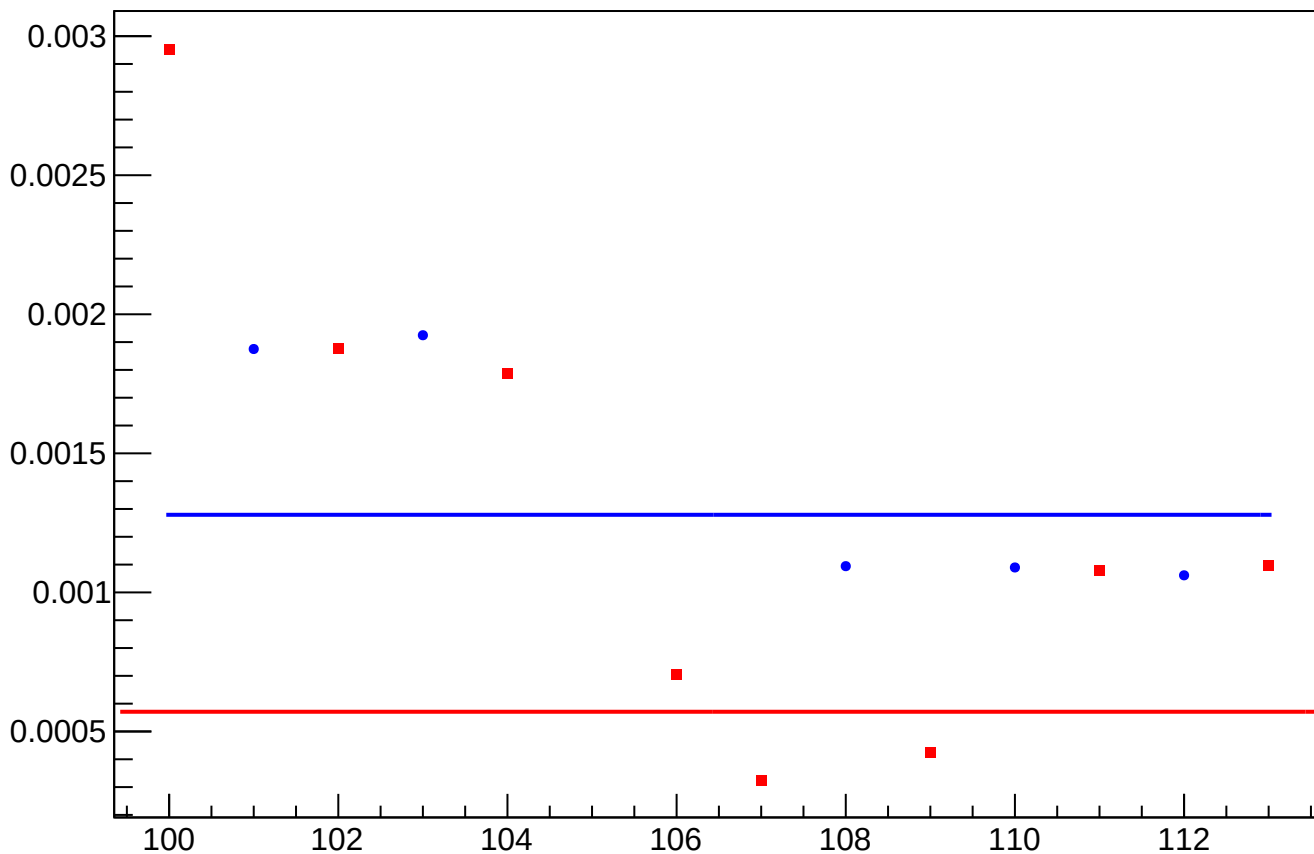
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 16.1/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 355651.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2031800.2/7

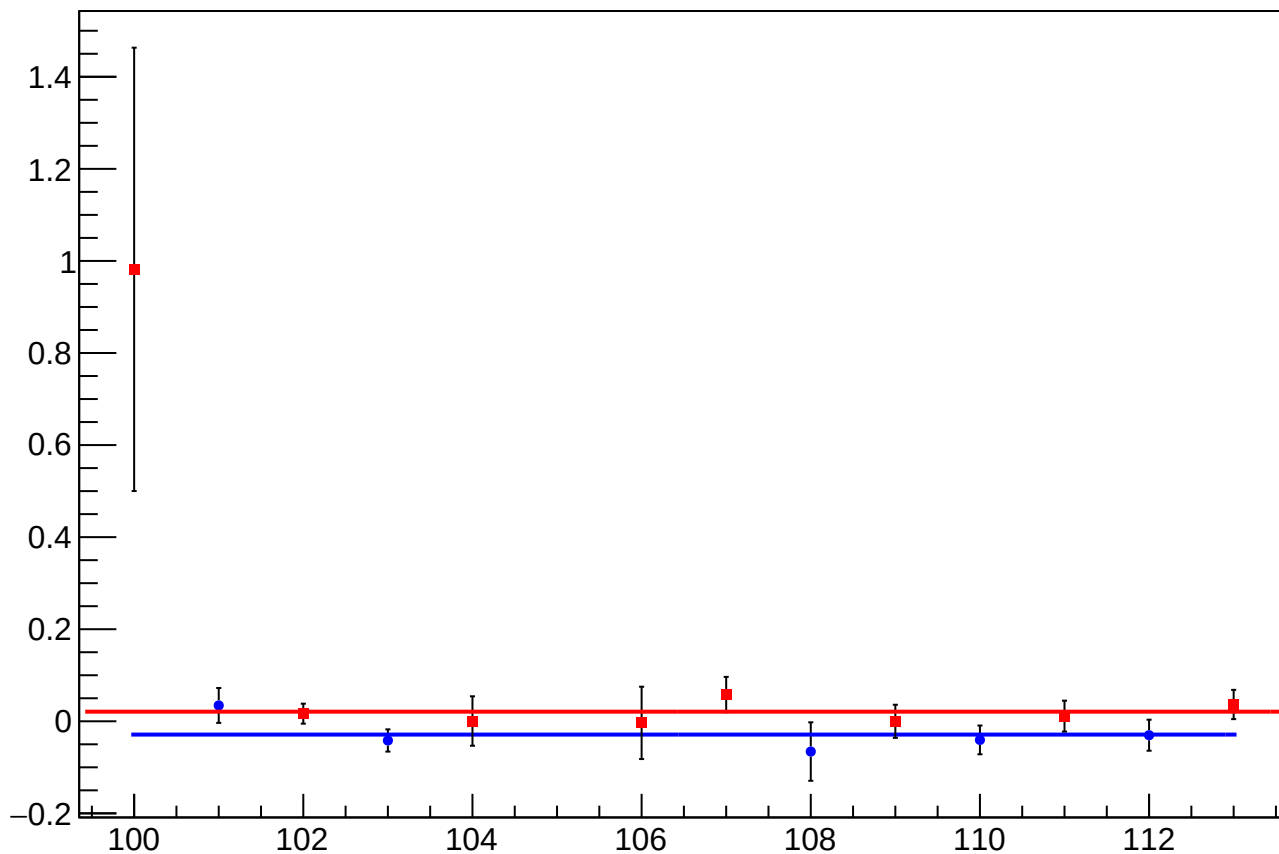
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3572646.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.029 $\pm$ 0.015  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.021 $\pm$ 0.013  $\chi^2$ /NDF: 5.9/7

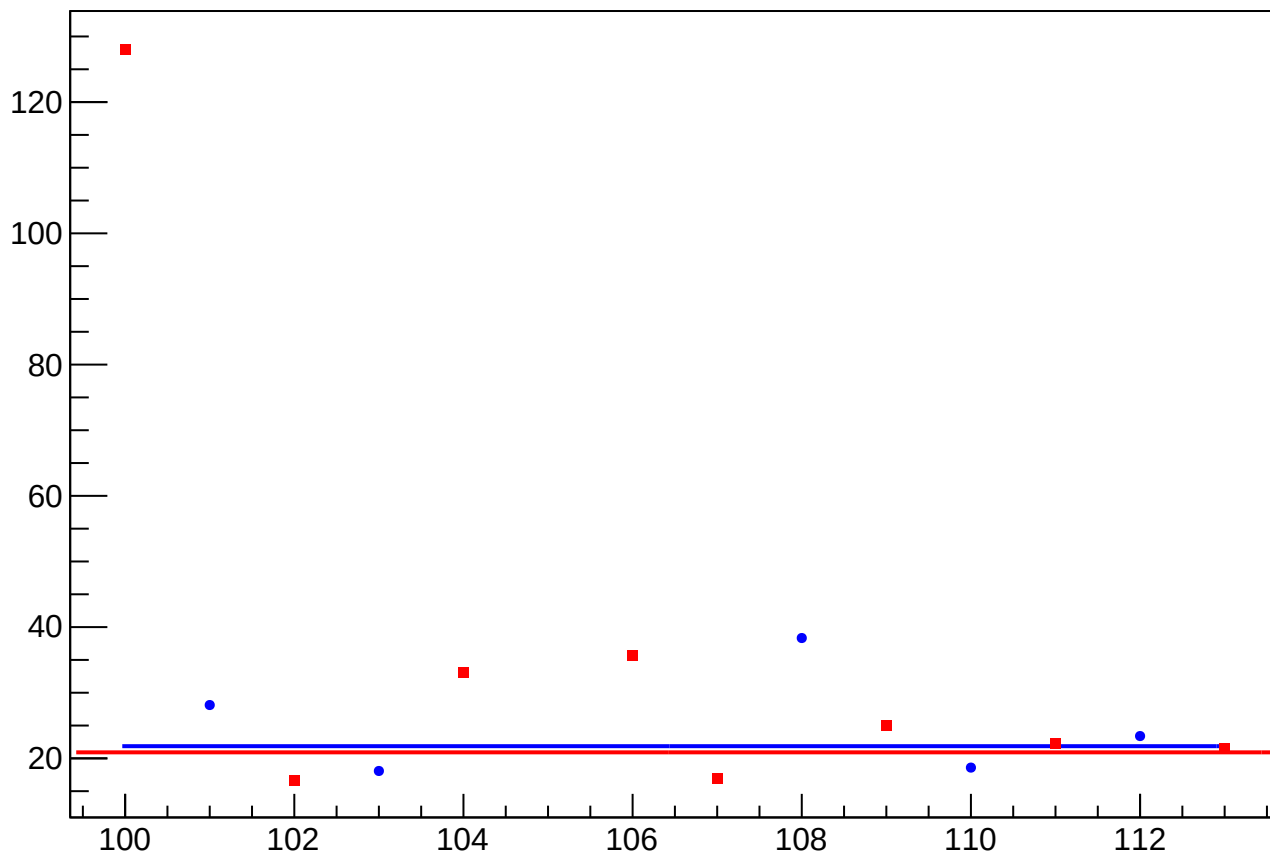
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.001 $\pm$ 0.010  $\chi^2$ /NDF: 15.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 21.856+/-0.010  $\chi^2/\text{NDF}$ : 264294.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.916+/-0.009  $\chi^2/\text{NDF}$ : 403424.4/7

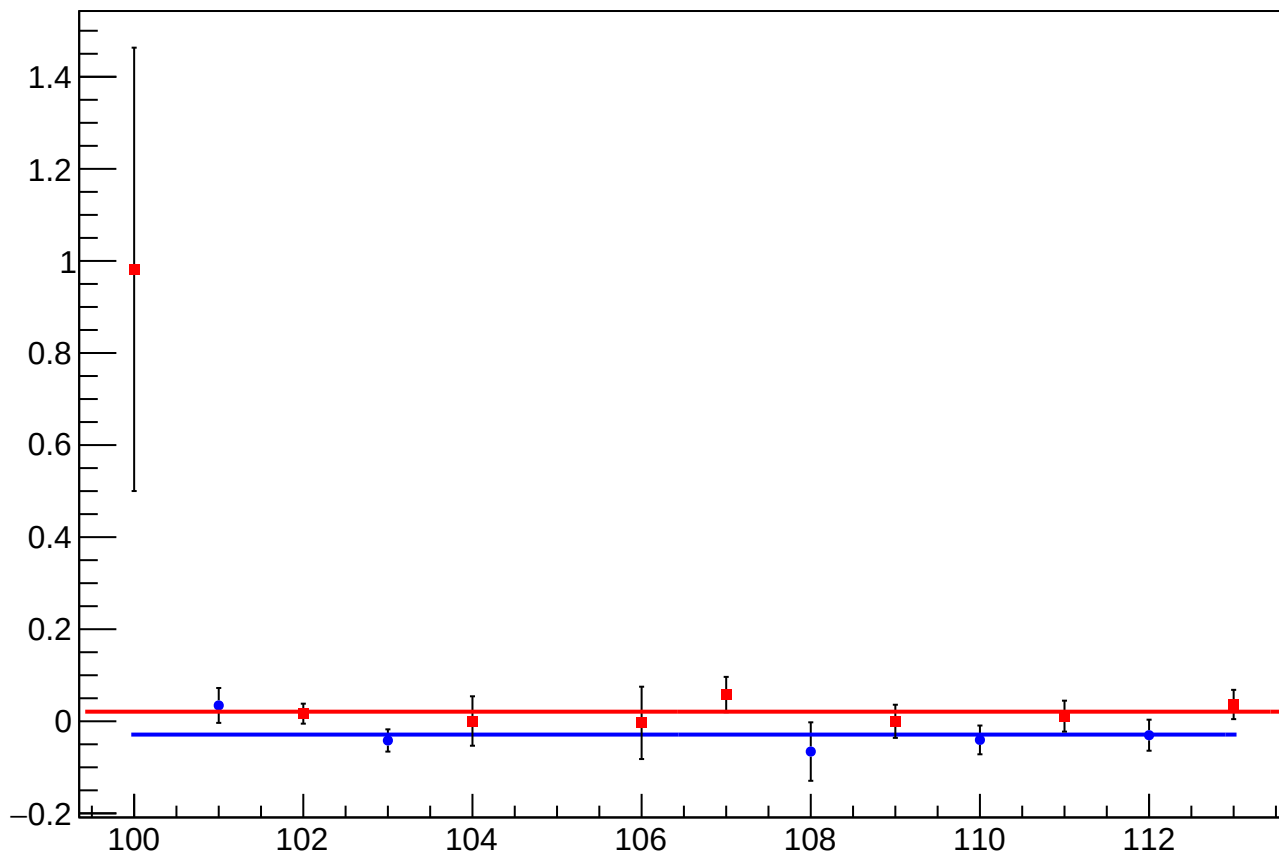
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.323+/-0.007  $\chi^2/\text{NDF}$ : 672280.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.029 $\pm$ 0.015  $\chi^2$ /NDF: 3.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.021 $\pm$ 0.013  $\chi^2$ /NDF: 5.9/7

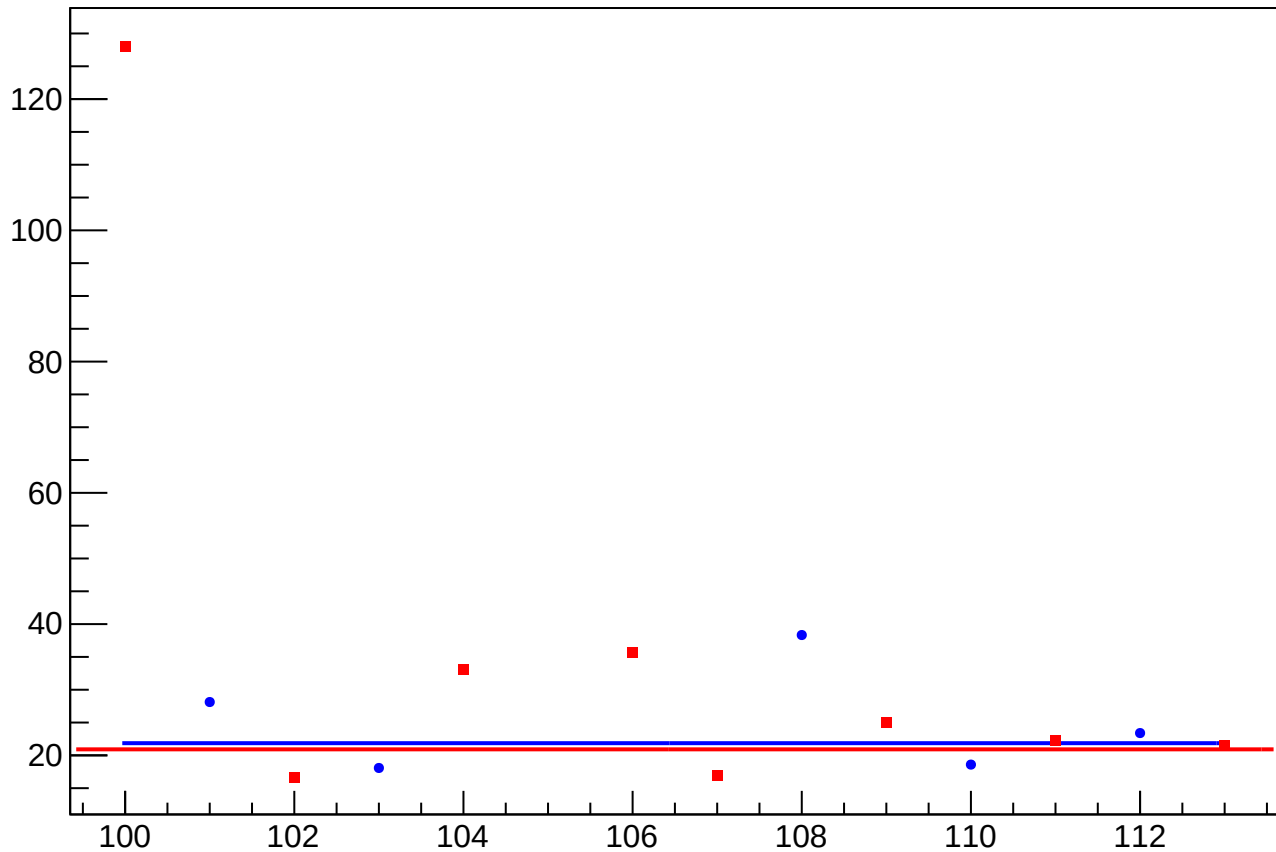
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.001 $\pm$ 0.010  $\chi^2$ /NDF: 15.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 21.856+/-0.010  $\chi^2/\text{NDF}$ : 264294.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.916+/-0.009  $\chi^2/\text{NDF}$ : 403424.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

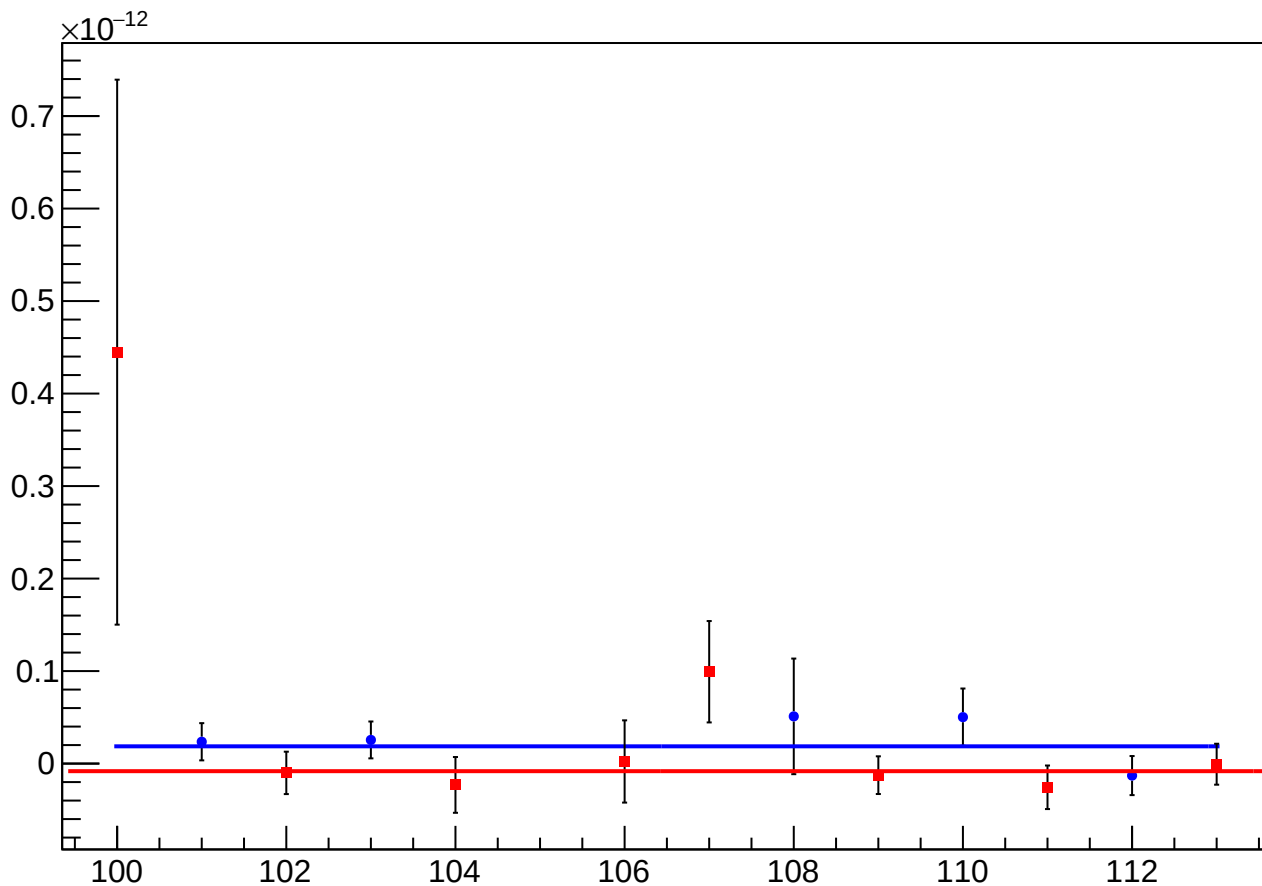
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.323+/-0.007  $\chi^2/\text{NDF}$ : 672280.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.2/7

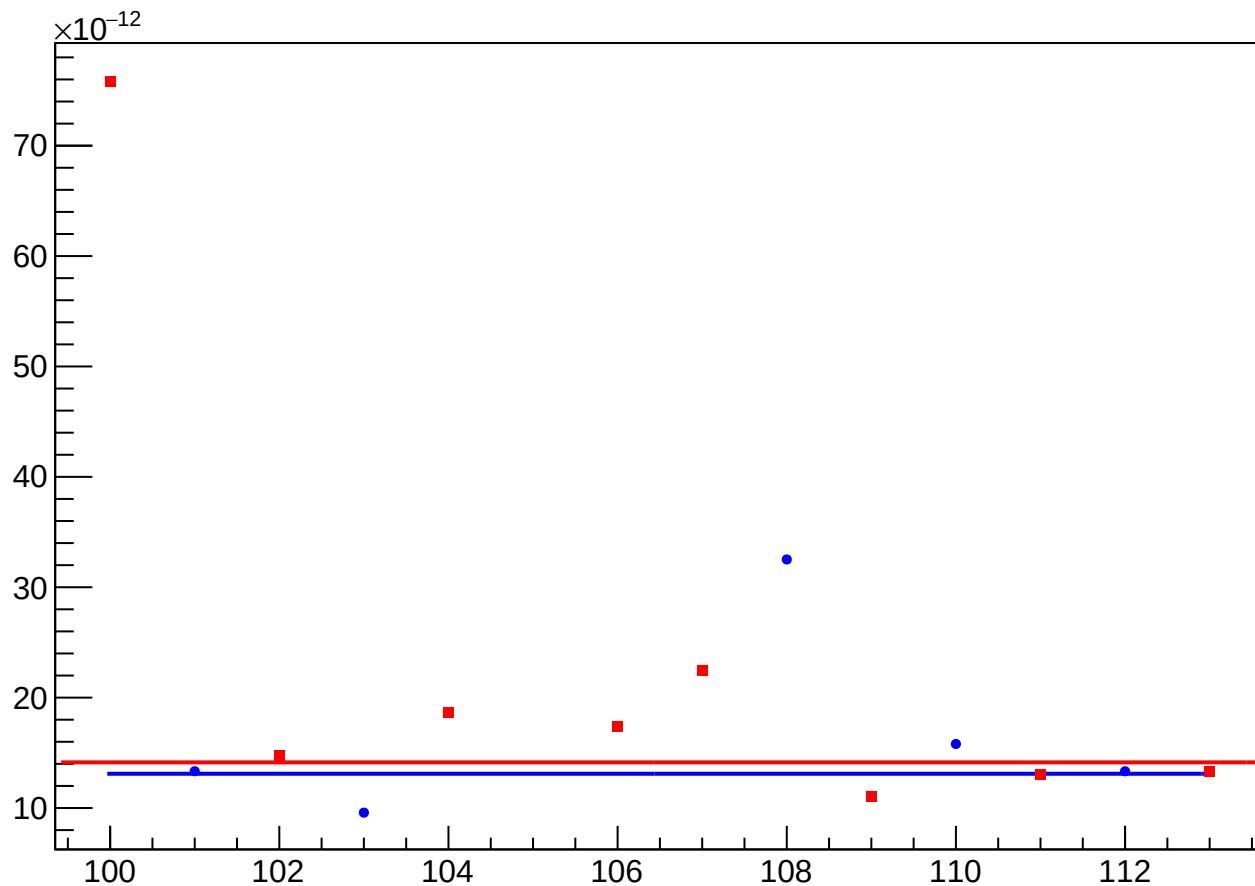
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 271226.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 242748.5/7

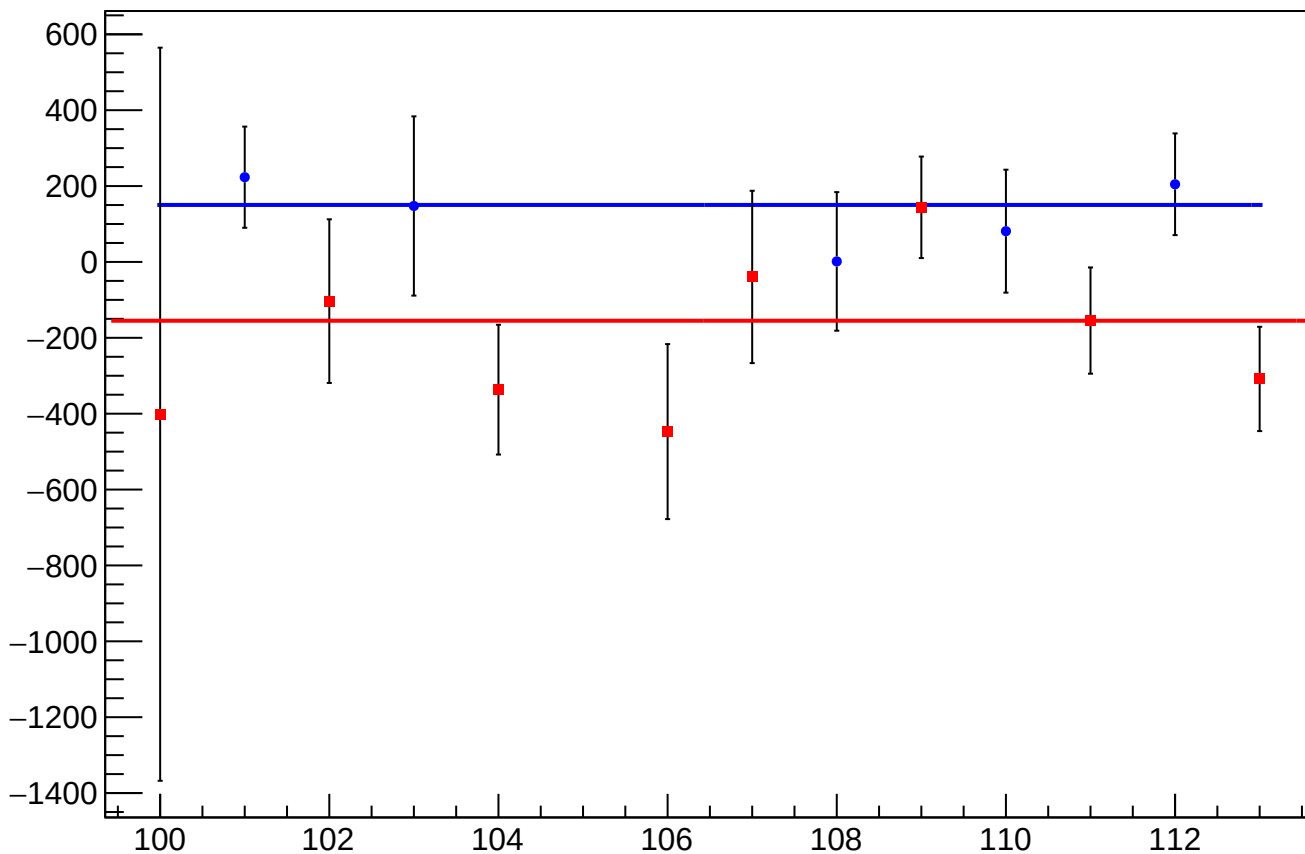
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 523814.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 150.253 $\pm$ 71.088  $\chi^2$ /NDF: 1.3/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -154.991 $\pm$ -62.651  $\chi^2$ /NDF: 9.4/7

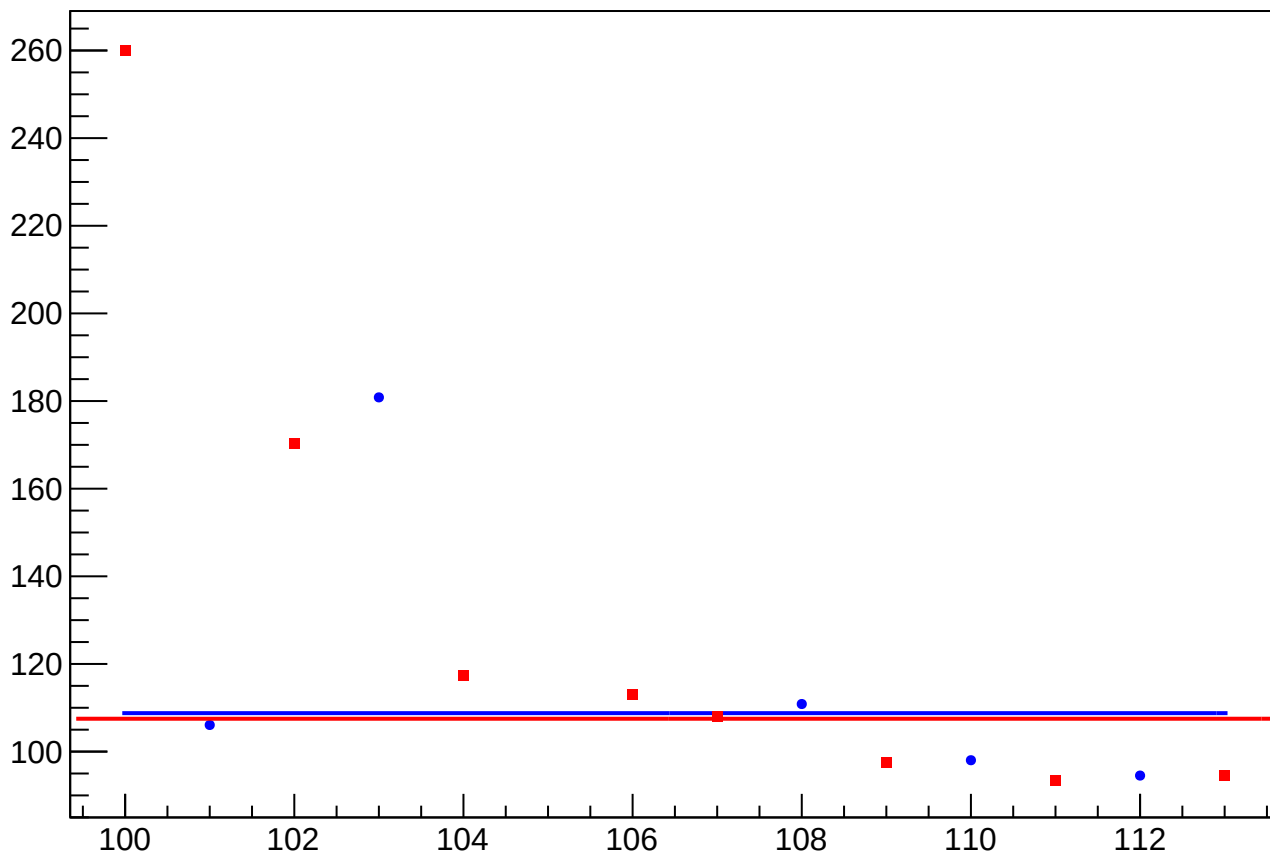
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -21.549 $\pm$ -47.003  $\chi^2$ /NDF: 21.0/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 108.773+/-0.050  $\chi^2/\text{NDF}$ : 218556.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 107.499+/-0.044  $\chi^2/\text{NDF}$ : 276599.1/7

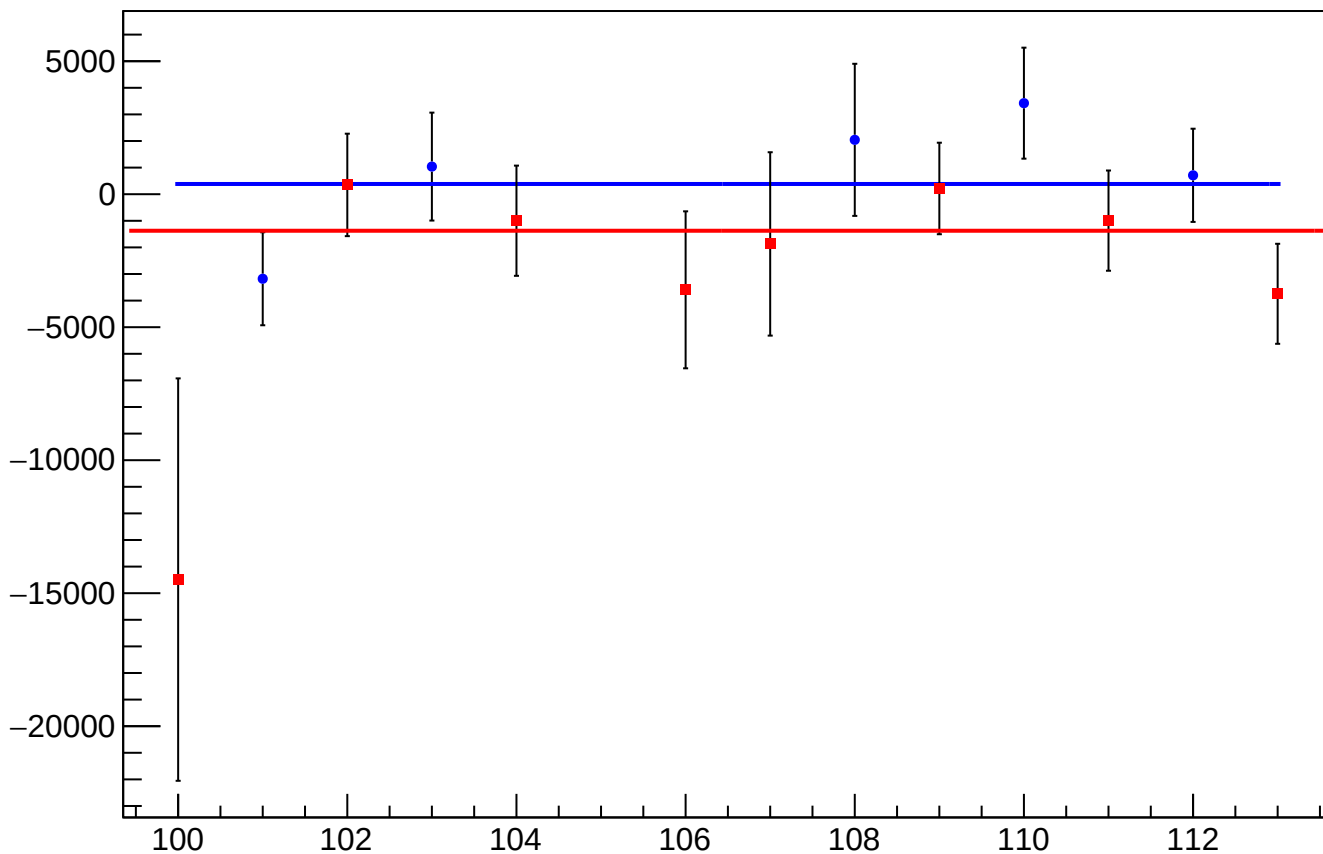
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 108.056+/-0.033  $\chi^2/\text{NDF}$ : 495516.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_reg\_correction\_mean vs Slug



Right In: 384.206+/-895.108  $\chi^2/\text{NDF}$ : 6.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1373.849+/-785.288  $\chi^2/\text{NDF}$ : 6.9/7

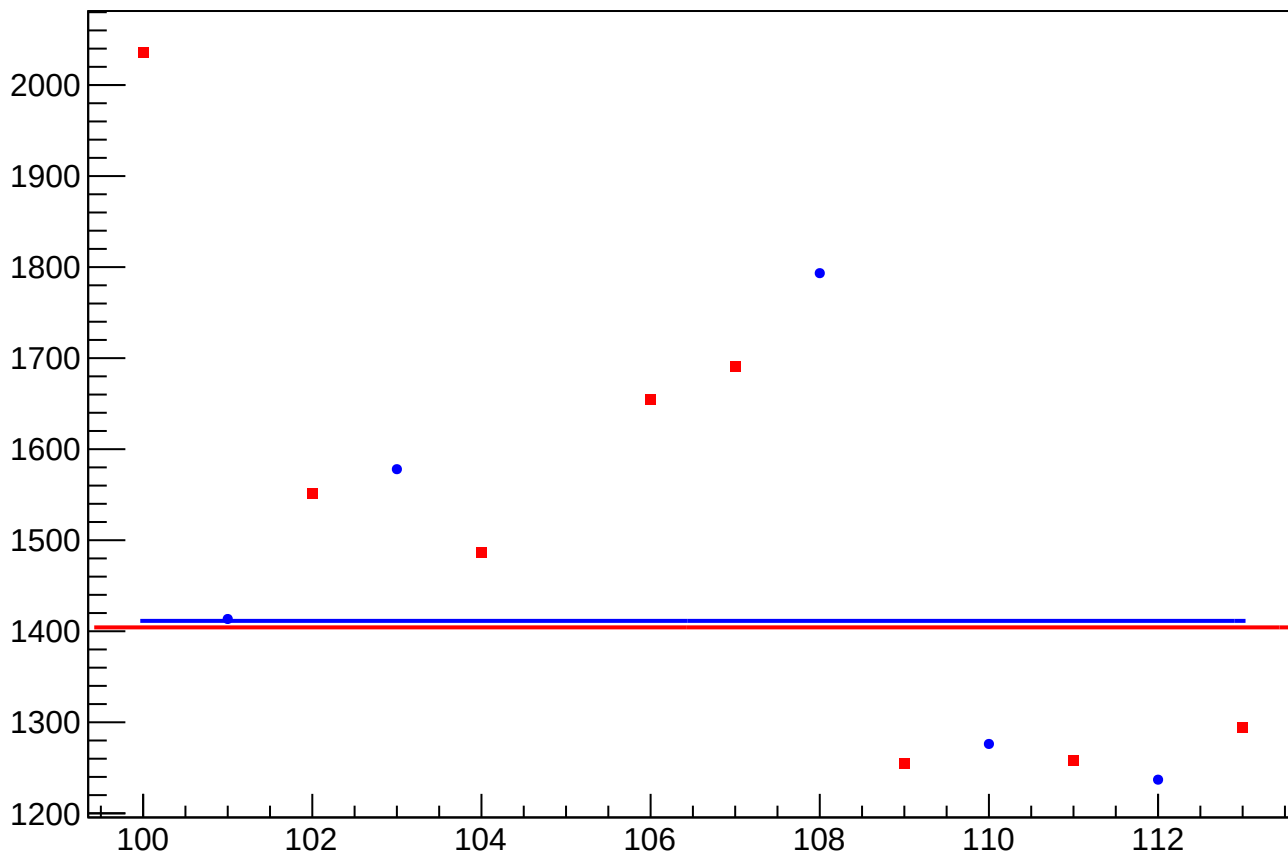
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -609.228+/-590.313  $\chi^2/\text{NDF}$ : 15.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_reg\_correction\_rms vs Slug



Right In: 1411.396 $\pm$ 0.633  $\chi^2$ /NDF: 77413.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1404.254 $\pm$ 0.555  $\chi^2$ /NDF: 90936.6/7

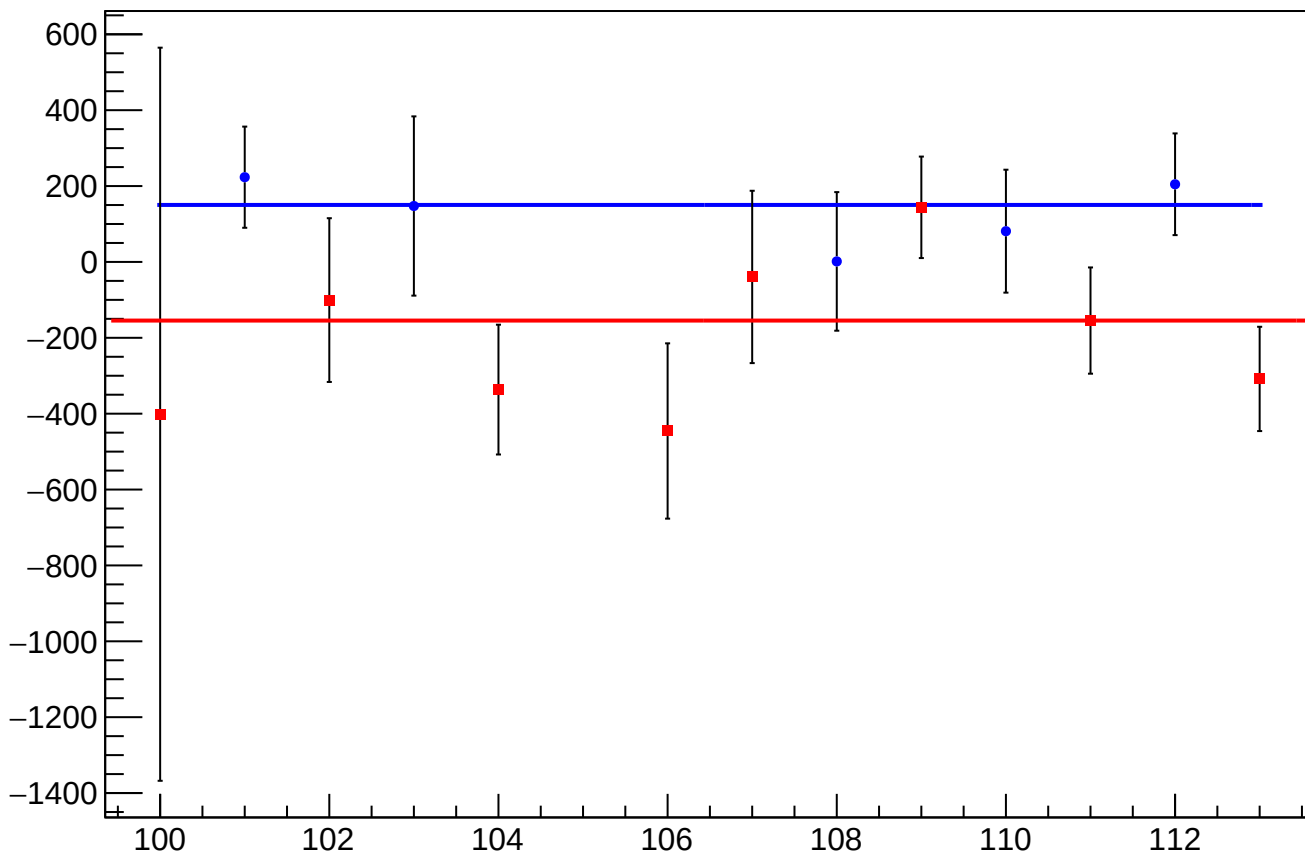
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1407.360 $\pm$ 0.417  $\chi^2$ /NDF: 168422.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 150.238 $\pm$ 71.088  $\chi^2$ /NDF: 1.3/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -154.567 $\pm$ -62.663  $\chi^2$ /NDF: 9.3/7

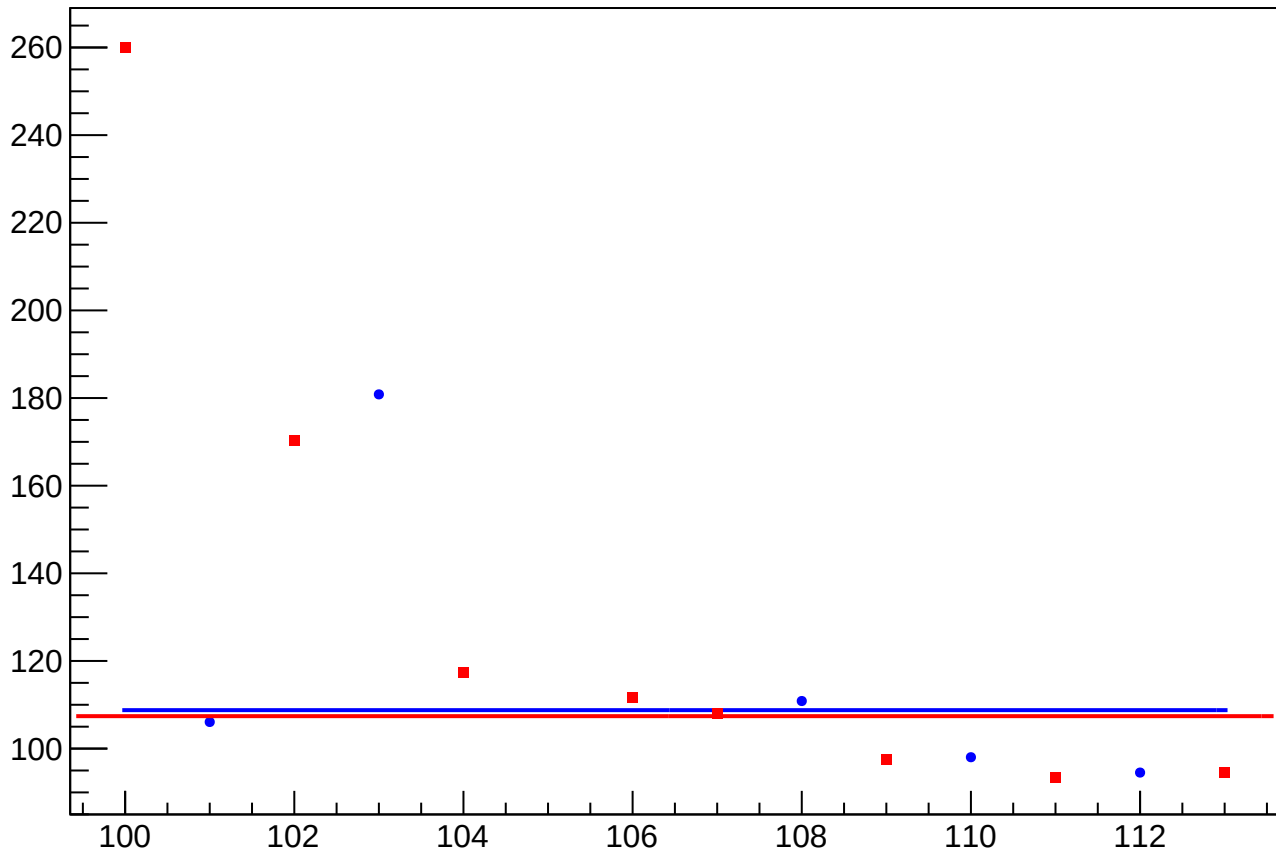
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -21.290 $\pm$ -47.007  $\chi^2$ /NDF: 21.0/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 108.773 $\pm$ 0.050  $\chi^2$ /NDF: 218559.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 107.402 $\pm$ 0.044  $\chi^2$ /NDF: 276390.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

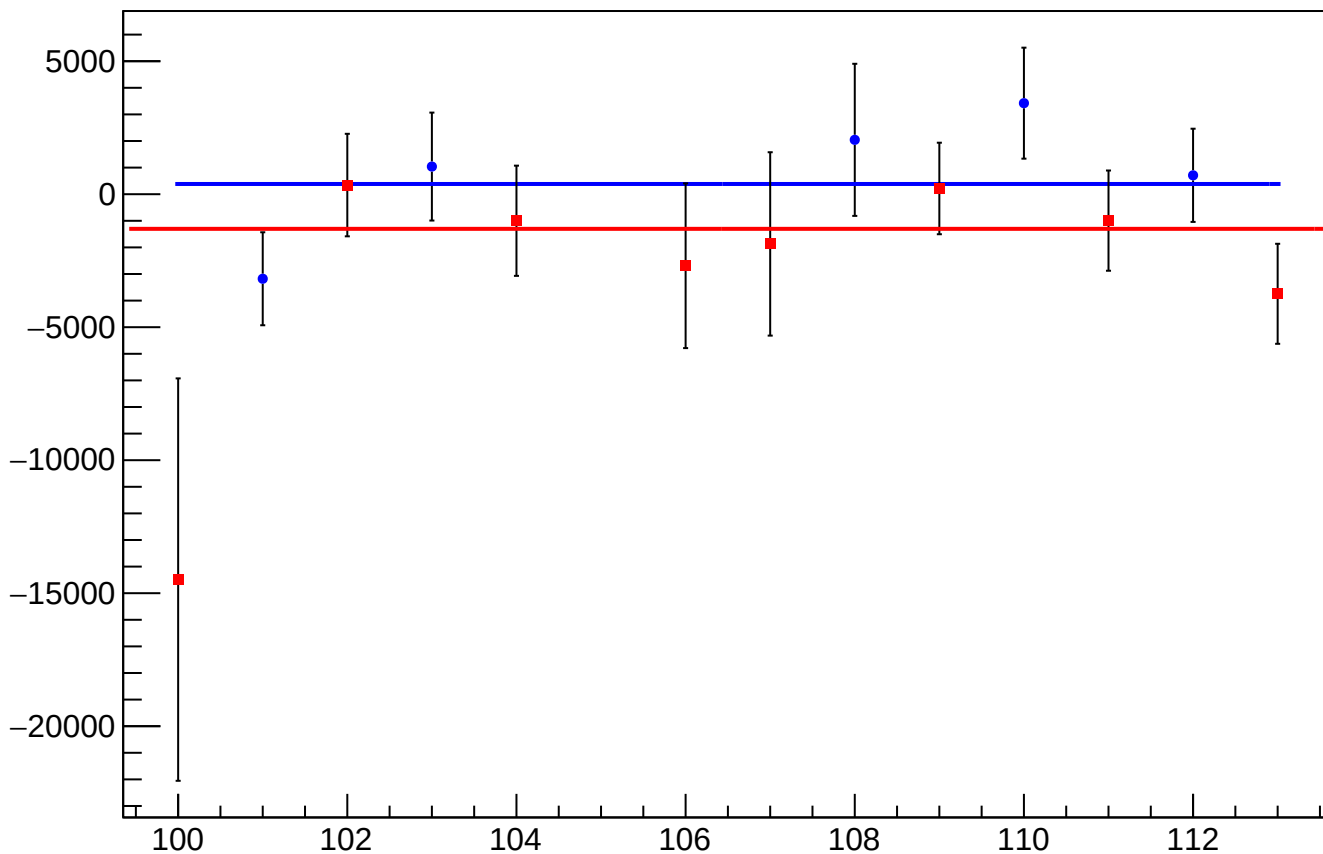
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 108.001 $\pm$ 0.033  $\chi^2$ /NDF: 495368.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_2468\_avg\_cor\_correction\_mean vs Slug



Right In: 384.335+/-895.121  $\chi^2/\text{NDF}$ : 6.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1302.189+/-787.939  $\chi^2/\text{NDF}$ : 6.5/7

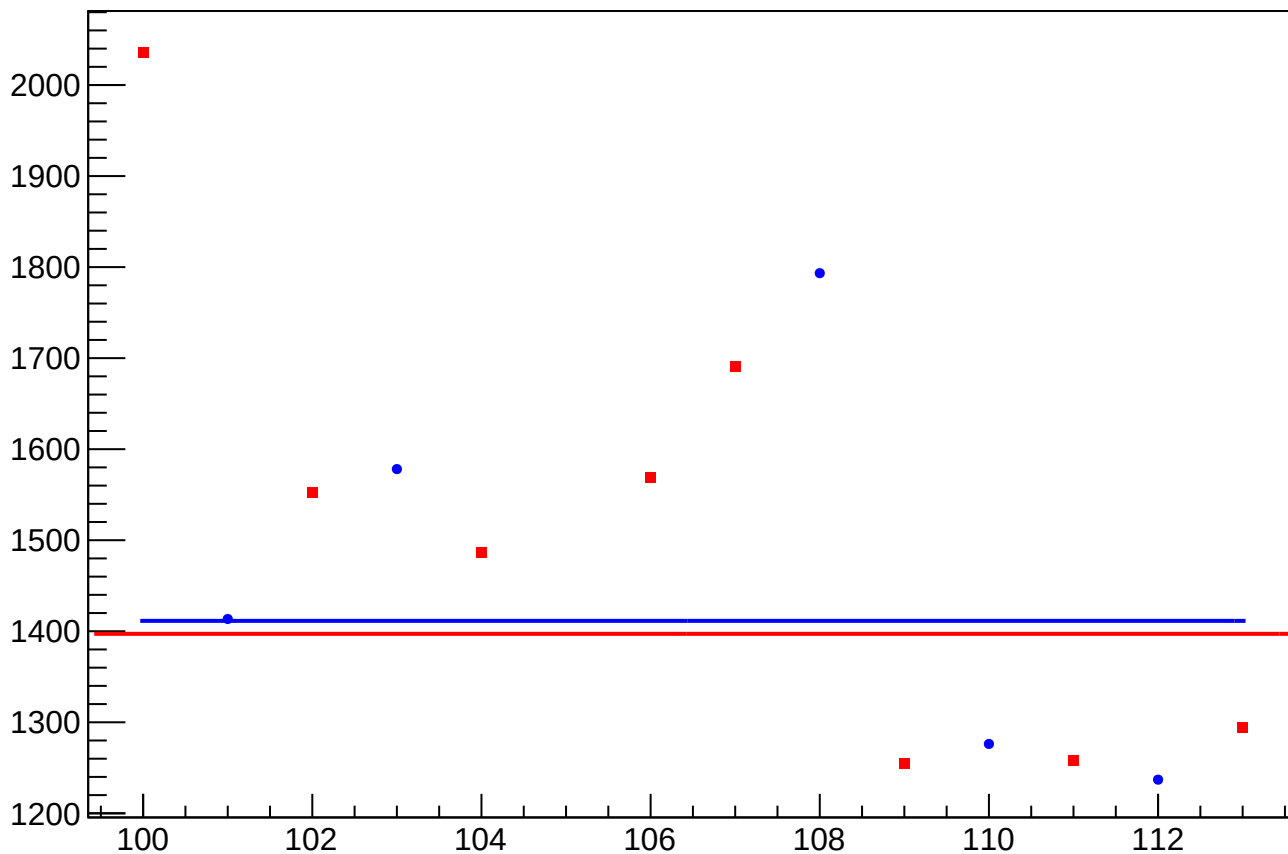
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -565.895+/-591.440  $\chi^2/\text{NDF}$ : 15.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_cor\_correction\_rms vs Slug



Right In: 1411.412 $\pm$ 0.633  $\chi^2$ /NDF: 77429.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1397.154 $\pm$ 0.557  $\chi^2$ /NDF: 82110.2/7

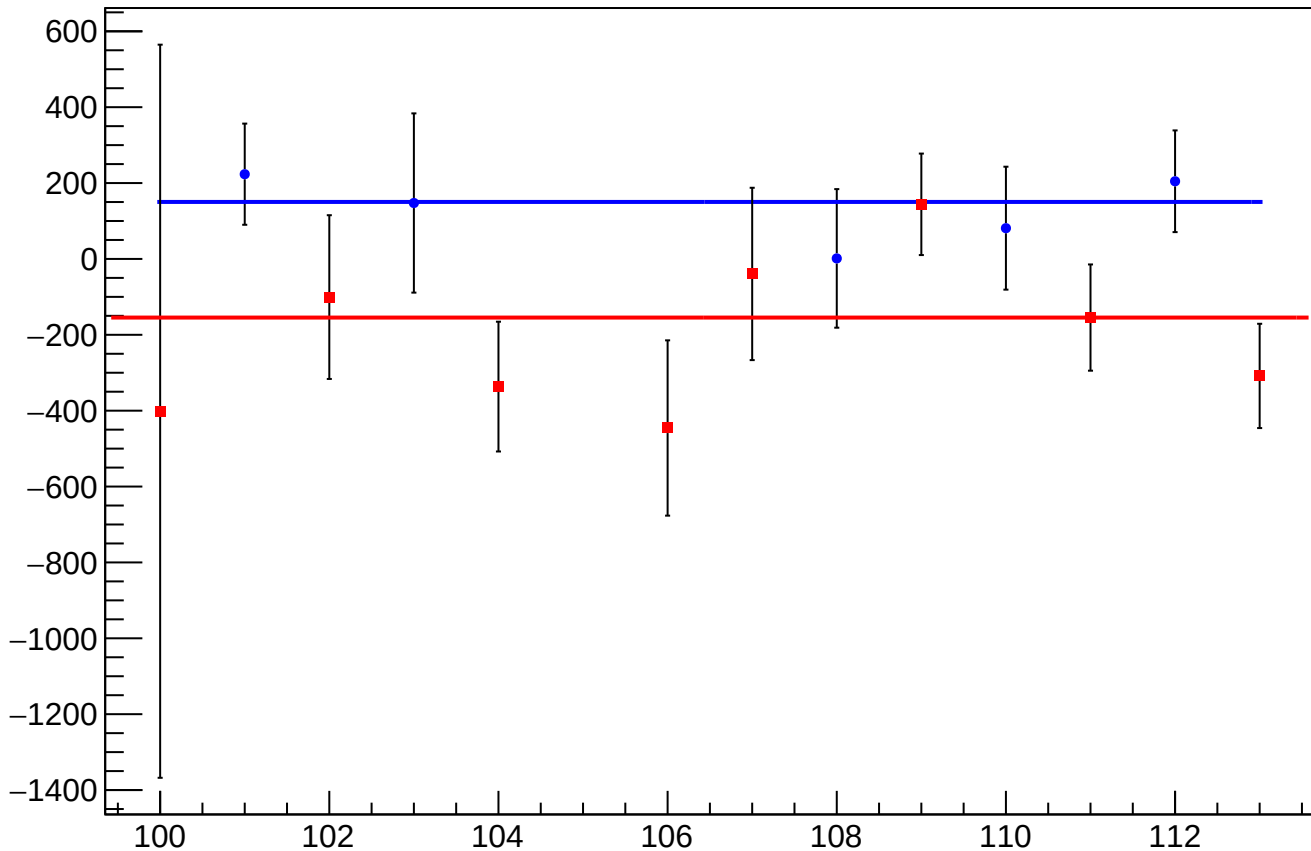
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1403.379 $\pm$ 0.418  $\chi^2$ /NDF: 159825.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 150.238 $\pm$ 71.088  $\chi^2/\text{NDF}$ : 1.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -154.567 $\pm$ 62.663  $\chi^2/\text{NDF}$ : 9.3/7

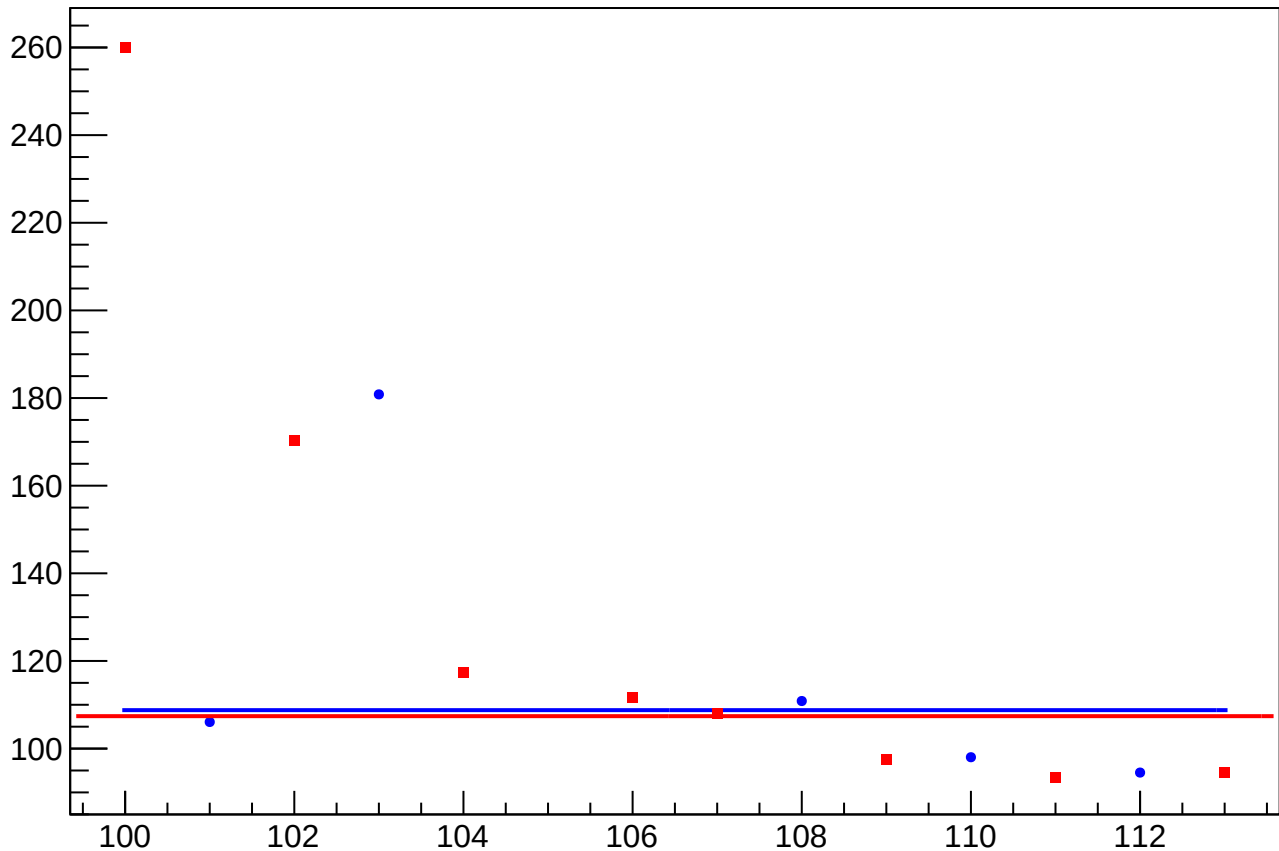
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.290 $\pm$ 47.007  $\chi^2/\text{NDF}$ : 21.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 108.773+/-0.050  $\chi^2/\text{NDF}$ : 218559.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 107.402+/-0.044  $\chi^2/\text{NDF}$ : 276390.5/7

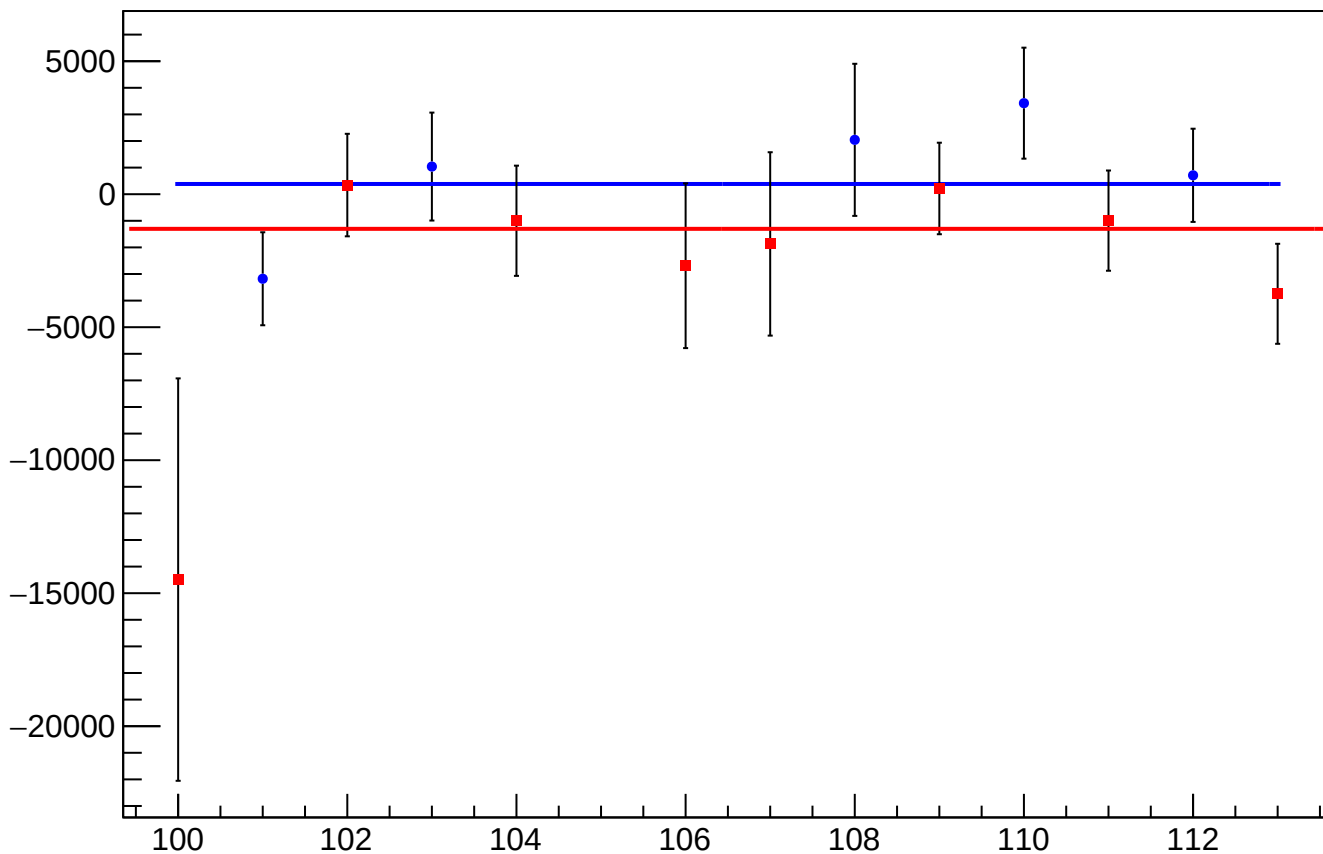
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 108.001+/-0.033  $\chi^2/\text{NDF}$ : 495368.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 384.335+/-895.121  $\chi^2/\text{NDF}$ : 6.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1302.189+/-787.939  $\chi^2/\text{NDF}$ : 6.5/7

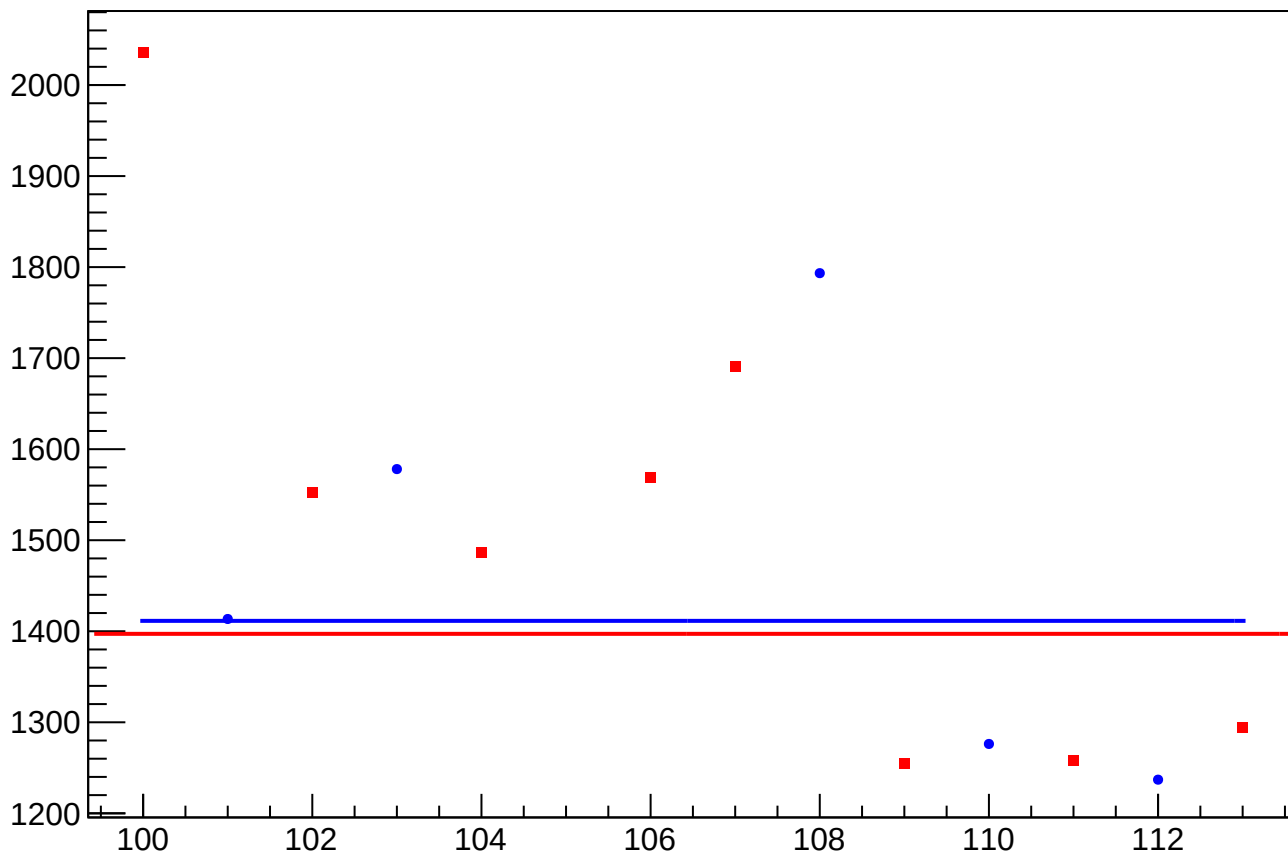
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -565.895+/-591.440  $\chi^2/\text{NDF}$ : 15.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1411.412 $\pm$ 0.633  $\chi^2$ /NDF: 77429.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1397.154 $\pm$ 0.557  $\chi^2$ /NDF: 82110.2/7

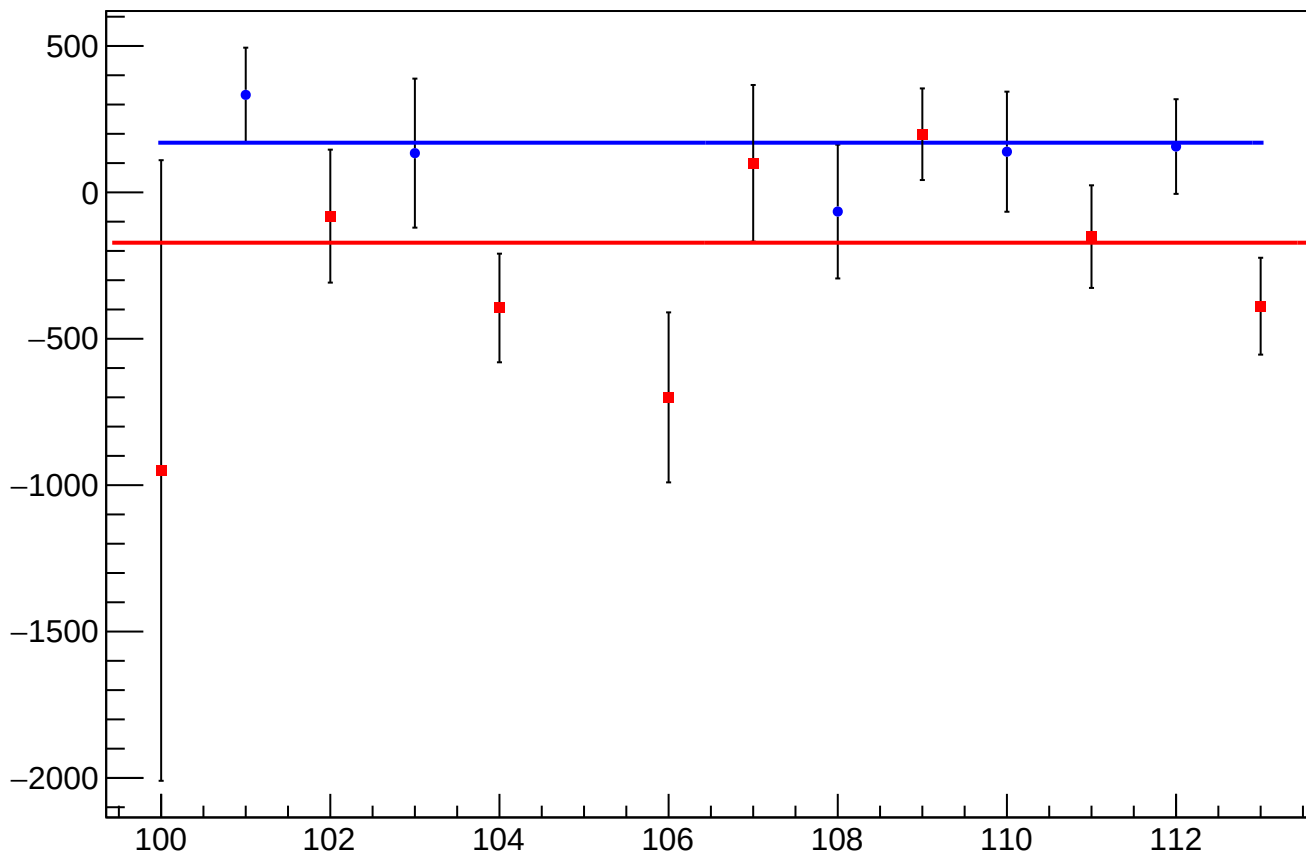
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1403.379 $\pm$ 0.418  $\chi^2$ /NDF: 159825.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 169.652 $\pm$ 86.031  $\chi^2$ /NDF: 2.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -171.897 $\pm$ 73.495  $\chi^2$ /NDF: 13.8/7

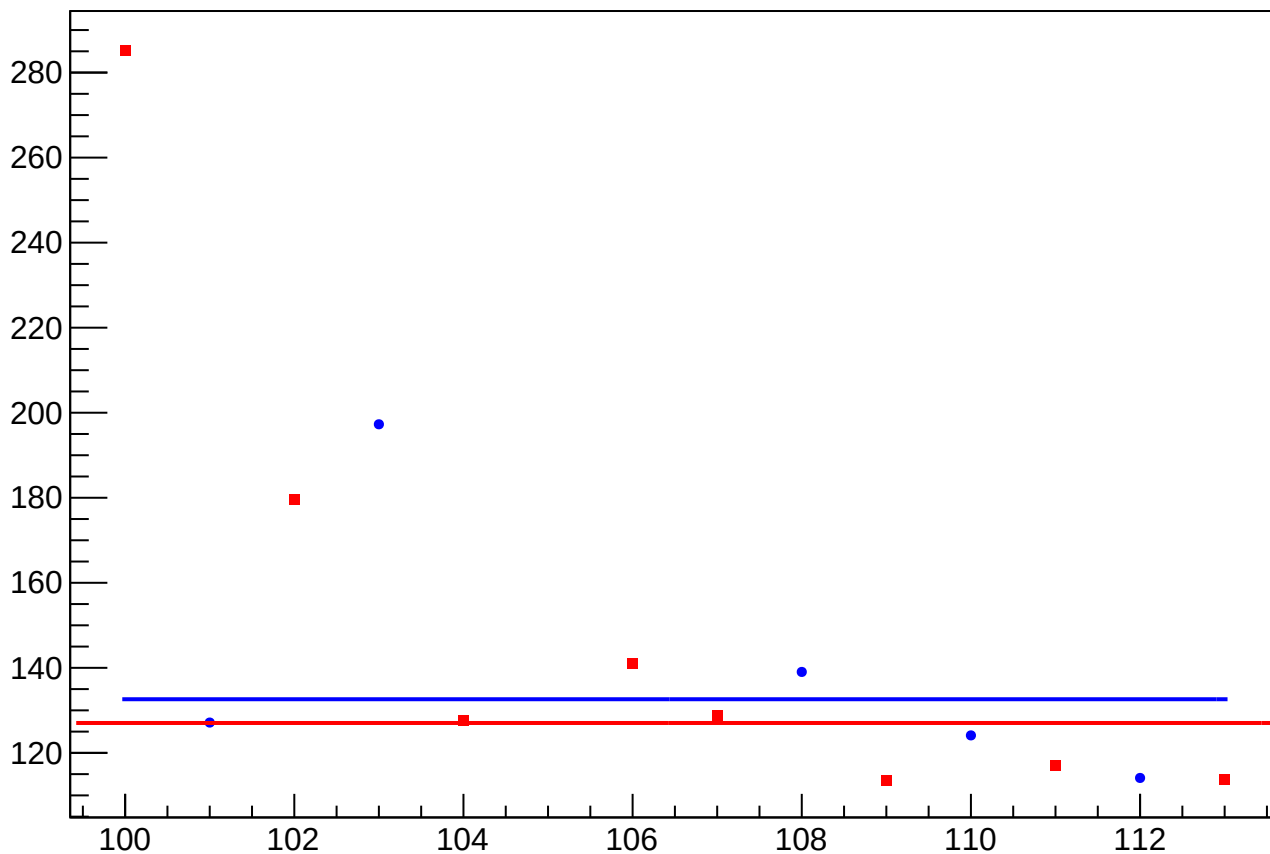
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -27.799 $\pm$ 55.880  $\chi^2$ /NDF: 25.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 132.615 $\pm$ 0.061  $\chi^2$ /NDF: 162687.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.030 $\pm$ 0.052  $\chi^2$ /NDF: 190920.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

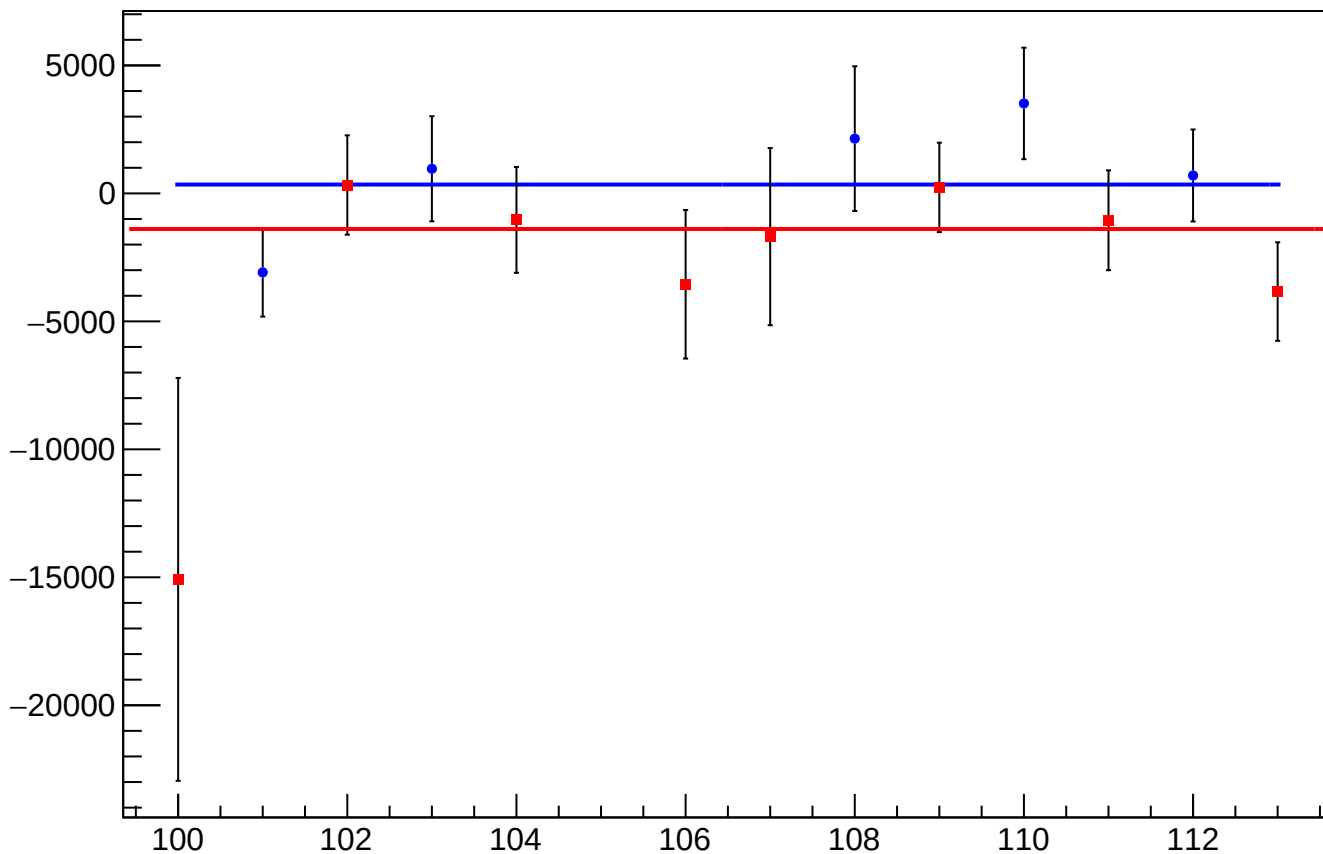
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 129.386 $\pm$ 0.040  $\chi^2$ /NDF: 358480.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_2468\_avg\_dit\_correction\_mean vs Slug



Right In: 345.323+/-906.387  $\chi^2/\text{NDF}$ : 6.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1390.989+/-796.071  $\chi^2/\text{NDF}$ : 6.9/7

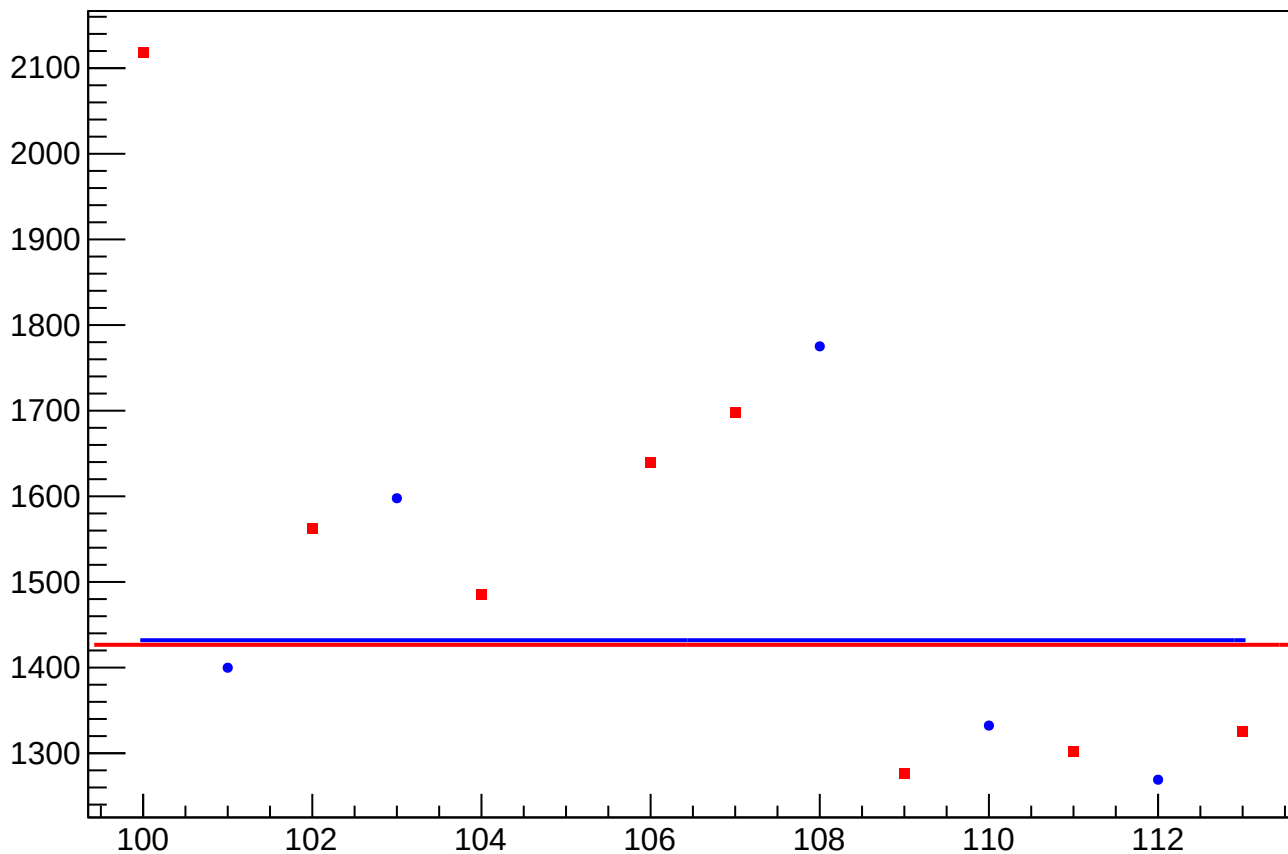
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -634.872+/-598.128  $\chi^2/\text{NDF}$ : 15.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_2468\_avg\_dit\_correction\_rms vs Slug



Right In: 1431.976 $\pm$ 0.641  $\chi^2$ /NDF: 63804.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1426.621 $\pm$ 0.563  $\chi^2$ /NDF: 78331.5/7

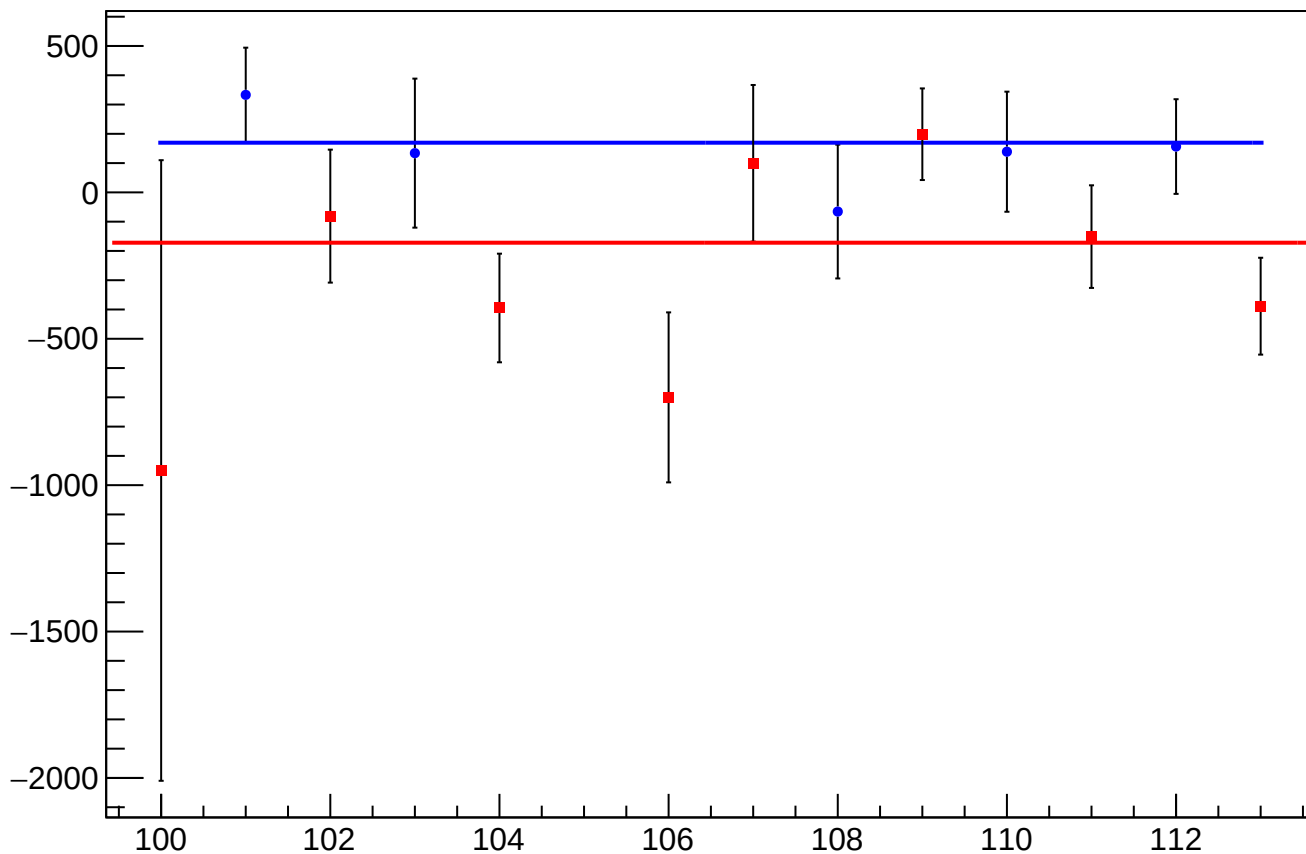
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1428.953 $\pm$ 0.423  $\chi^2$ /NDF: 142175.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 169.645 $\pm$ 86.030  $\chi^2$ /NDF: 2.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -171.893 $\pm$ 73.494  $\chi^2$ /NDF: 13.8/7

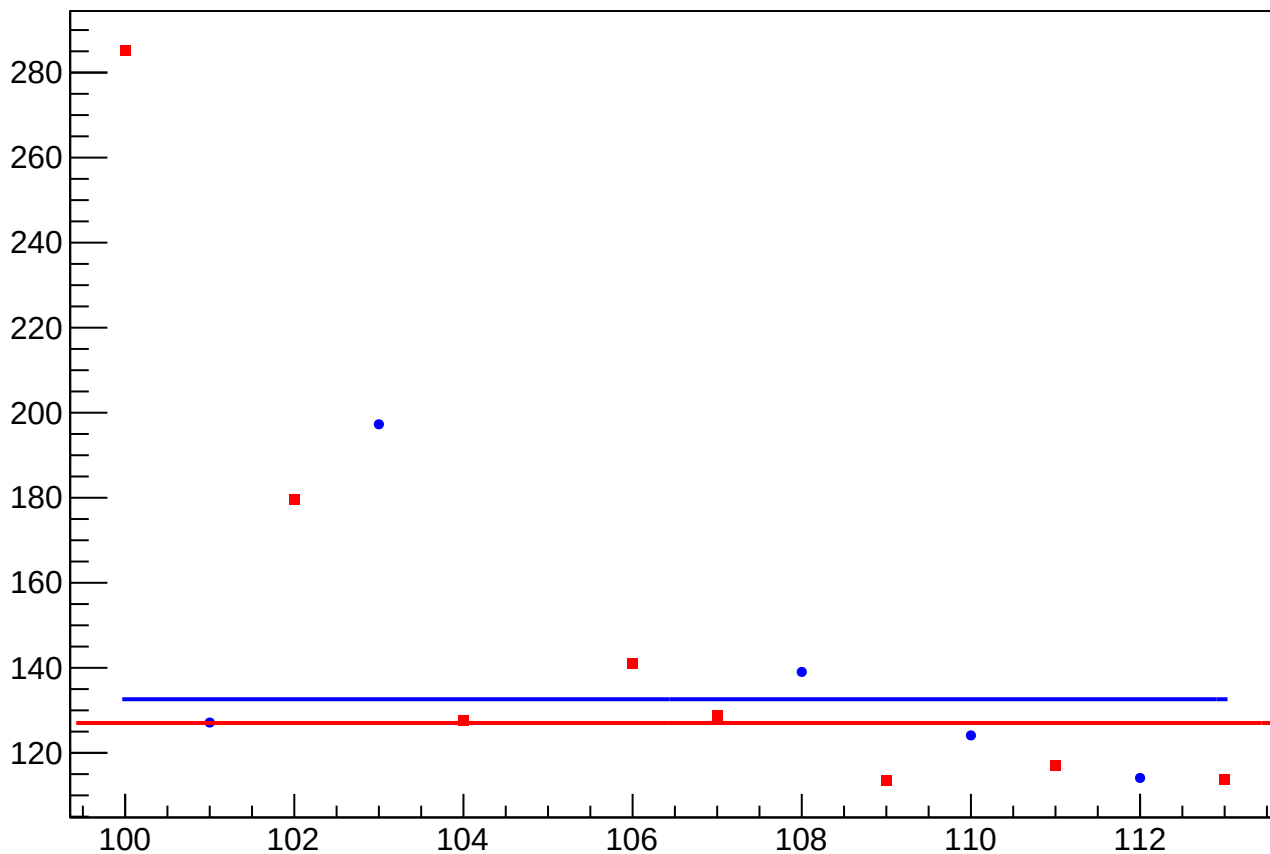
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -27.799 $\pm$ 55.880  $\chi^2$ /NDF: 25.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 132.613 $\pm$ 0.061  $\chi^2$ /NDF: 162696.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.028 $\pm$ 0.052  $\chi^2$ /NDF: 190930.2/7

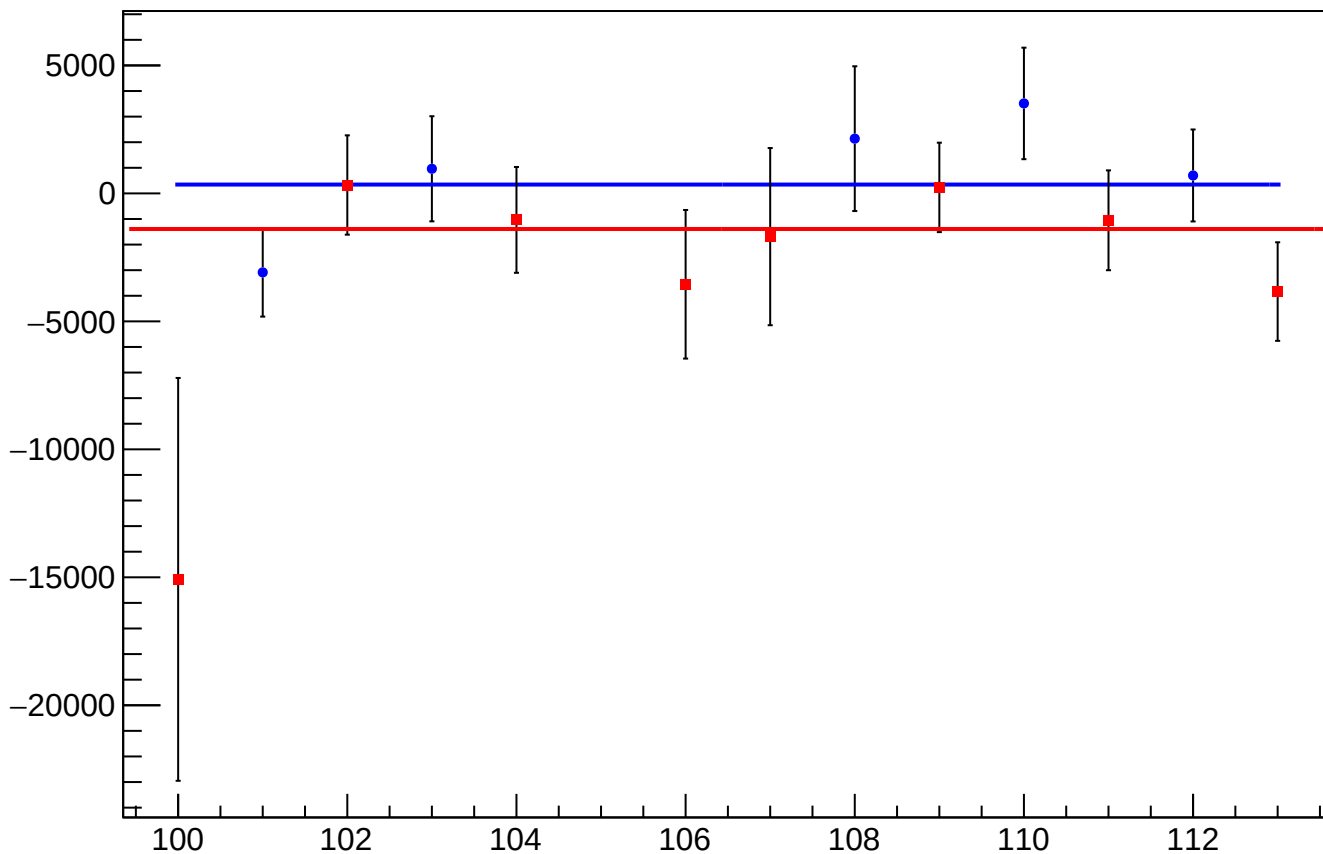
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 129.385 $\pm$ 0.040  $\chi^2$ /NDF: 358499.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 345.324+/-906.383  $\chi^2/\text{NDF}$ : 6.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1390.985+/-796.068  $\chi^2/\text{NDF}$ : 6.9/7

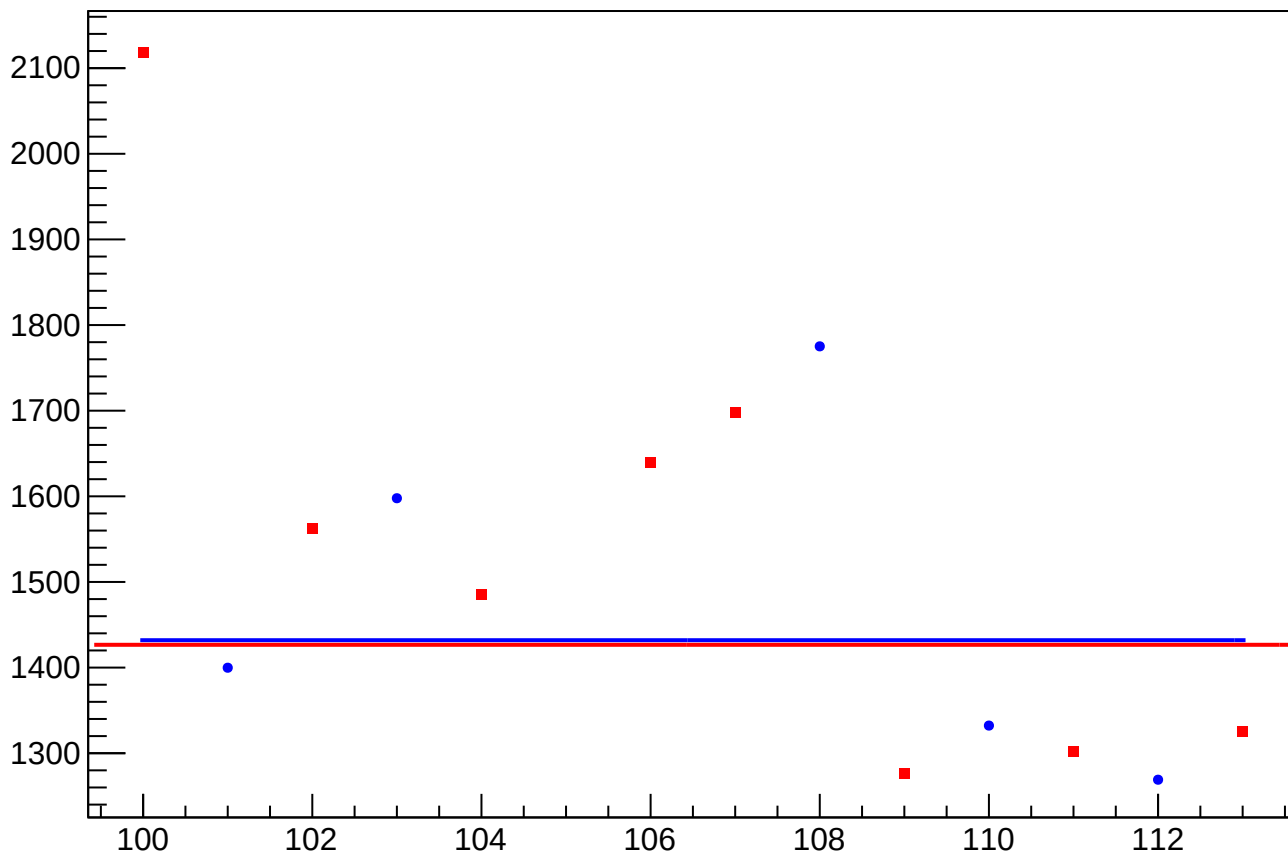
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -634.869+/-598.126  $\chi^2/\text{NDF}$ : 15.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1431.970 $\pm$ 0.641  $\chi^2$ /NDF: 63806.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1426.615 $\pm$ 0.563  $\chi^2$ /NDF: 78333.9/7

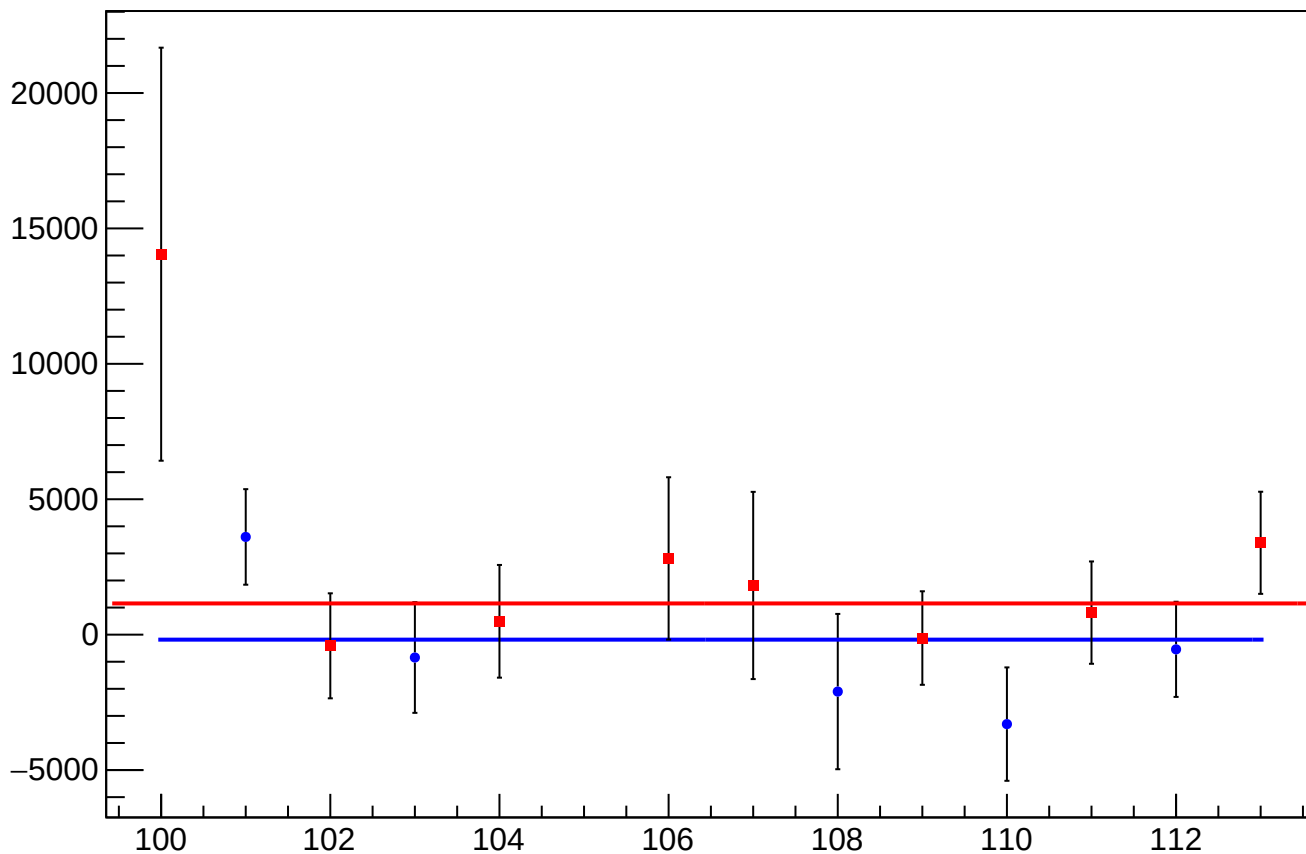
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1428.947 $\pm$ 0.423  $\chi^2$ /NDF: 142180.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_2468\_avg\_mean vs Slug



Right In: -184.403+/-900.036  $\chi^2/\text{NDF}$ : 7.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1152.458+/-789.111  $\chi^2/\text{NDF}$ : 5.9/7

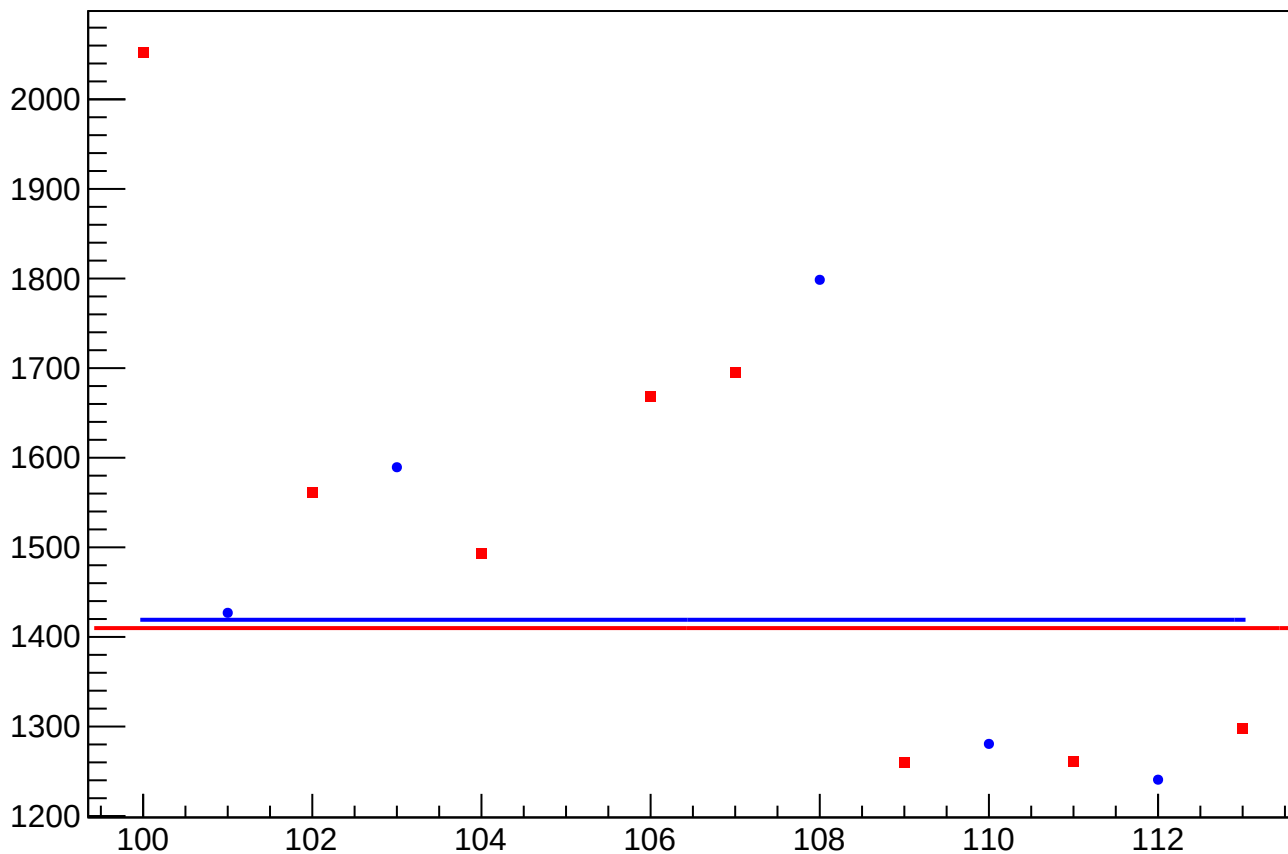
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 571.442+/-593.350  $\chi^2/\text{NDF}$ : 14.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_2468\_avg\_rms vs Slug



Right In: 1419.155+/-0.636  $\chi^2/\text{NDF}$ : 78322.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1409.864+/-0.558  $\chi^2/\text{NDF}$ : 92659.9/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

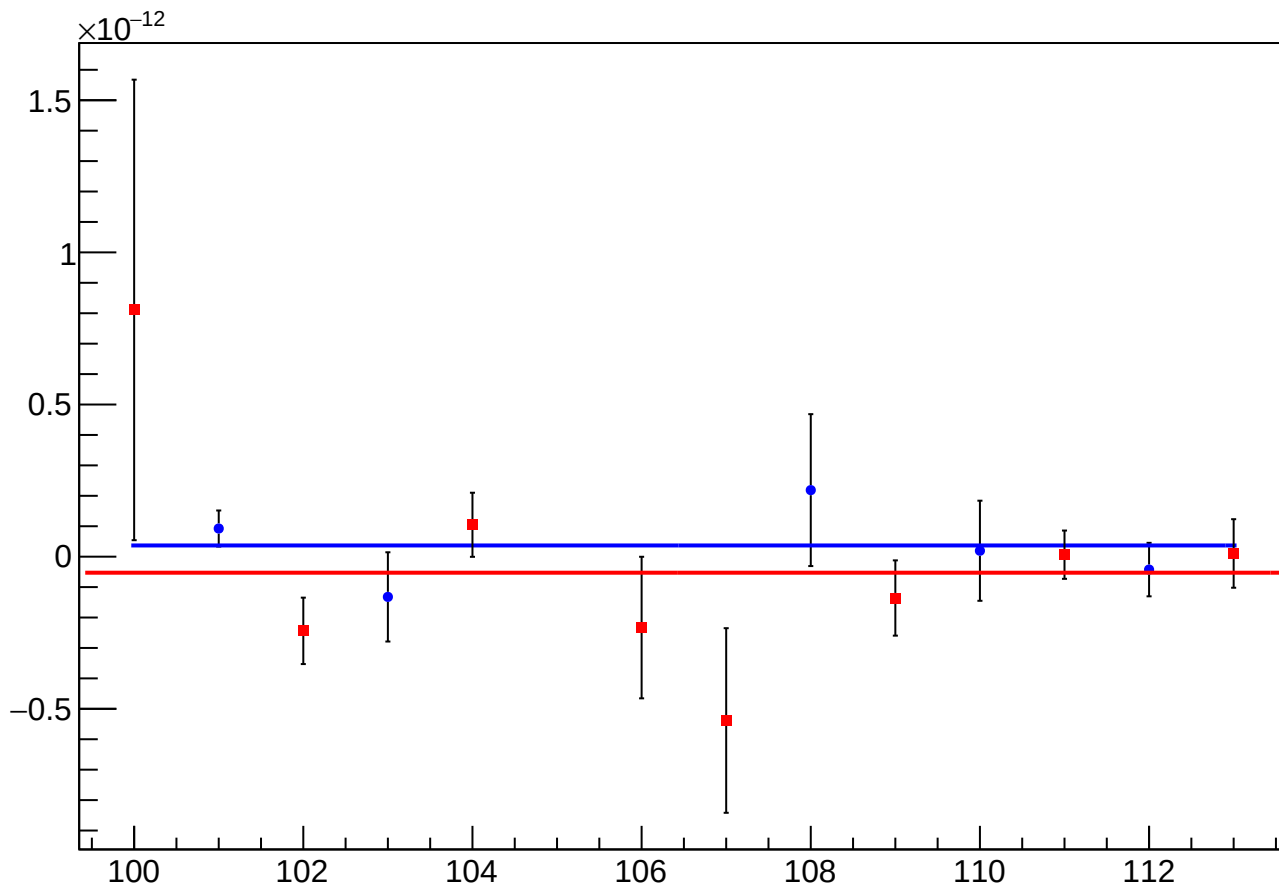
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1413.902+/-0.420  $\chi^2/\text{NDF}$ : 171102.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_2468\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.1/7

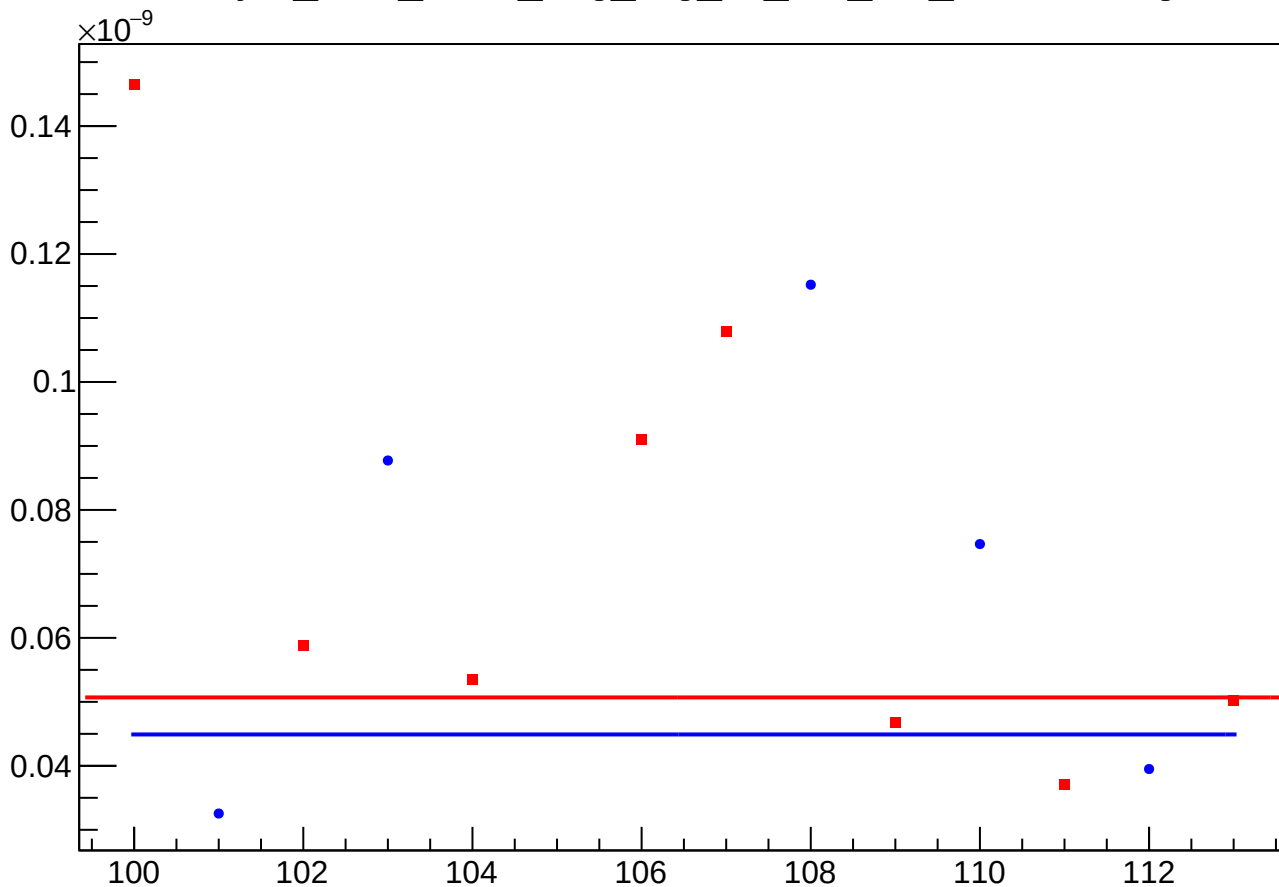
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 489181.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 236186.6/7

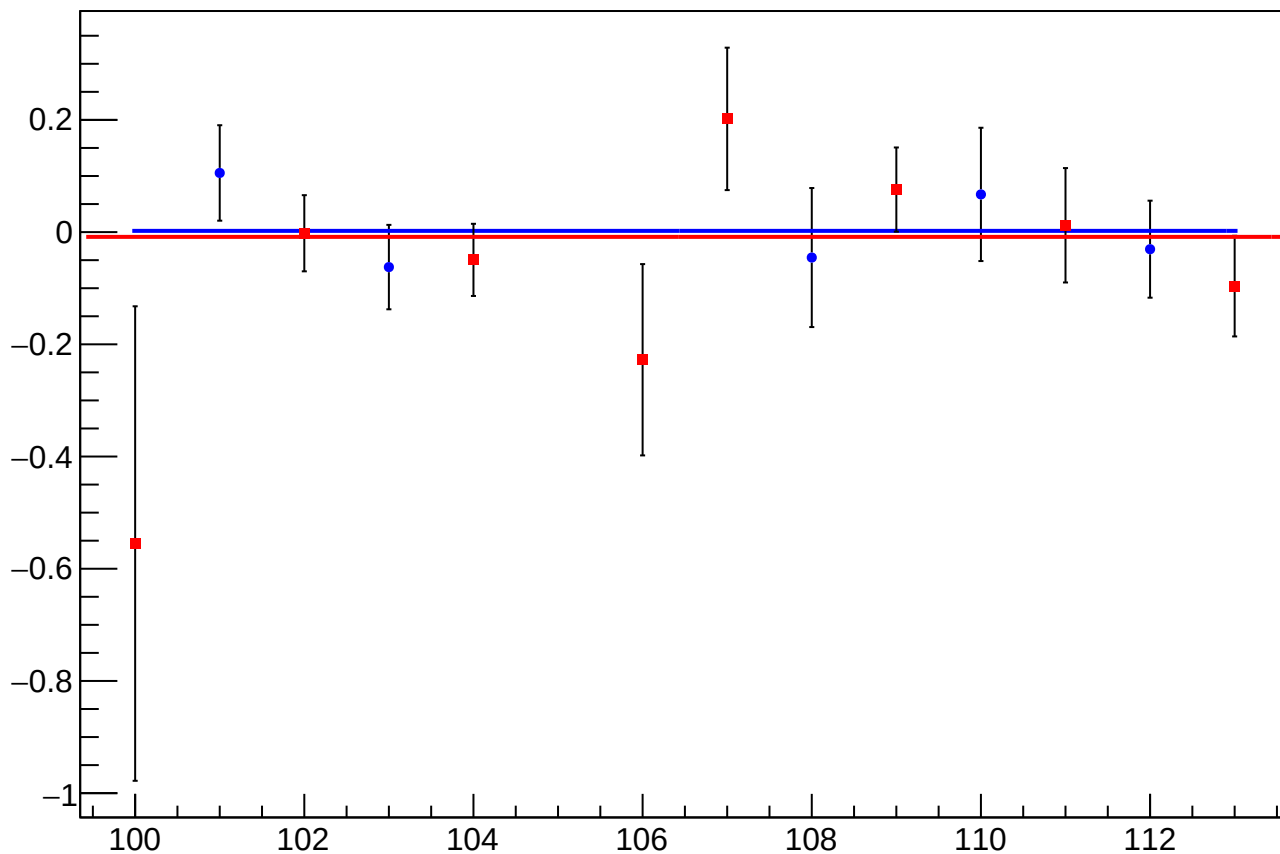
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 742490.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.002 $\pm$ 0.041  $\chi^2$ /NDF: 2.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.008 $\pm$ 0.032  $\chi^2$ /NDF: 8.7/7

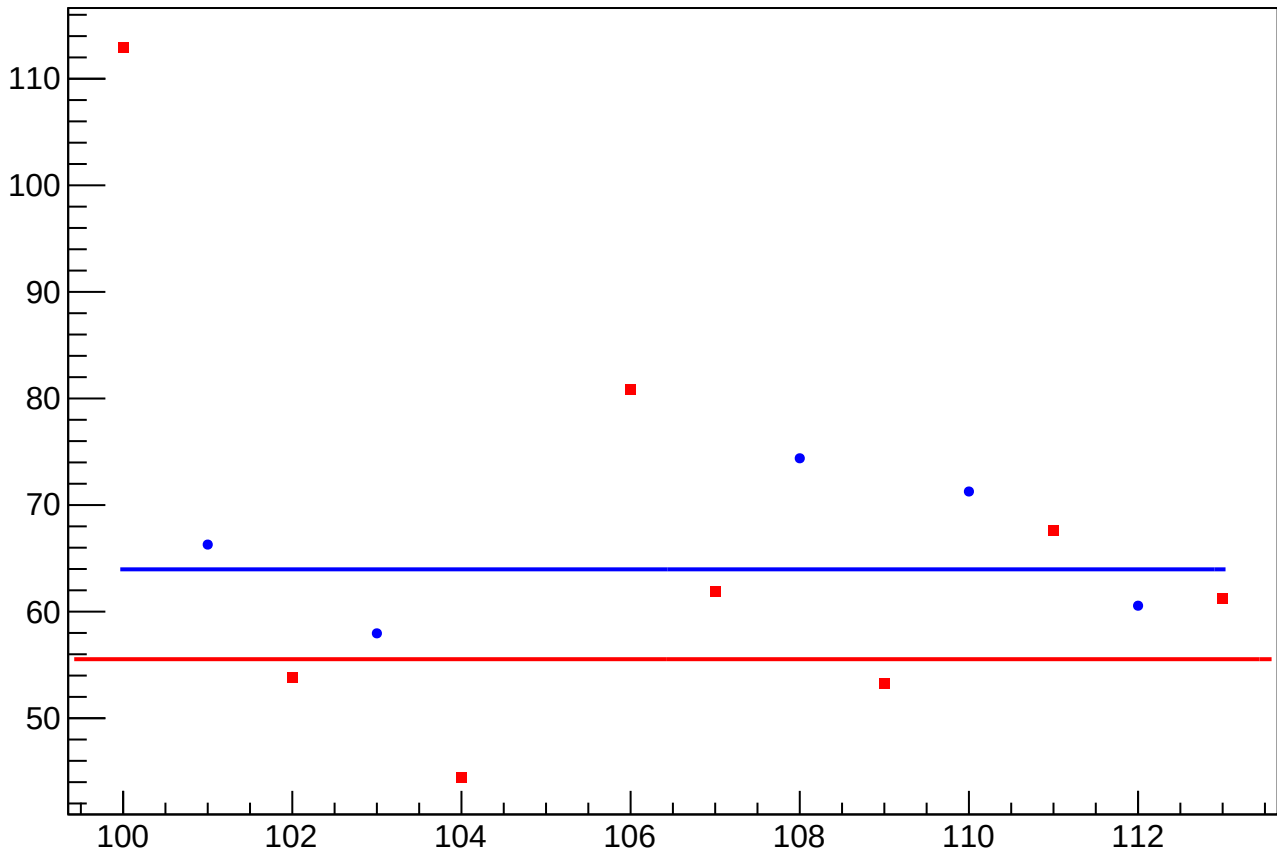
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.004 $\pm$ 0.025  $\chi^2$ /NDF: 11.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 63.968 $\pm$ 0.029  $\chi^2$ /NDF: 39055.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 55.538 $\pm$ 0.023  $\chi^2$ /NDF: 184283.2/7

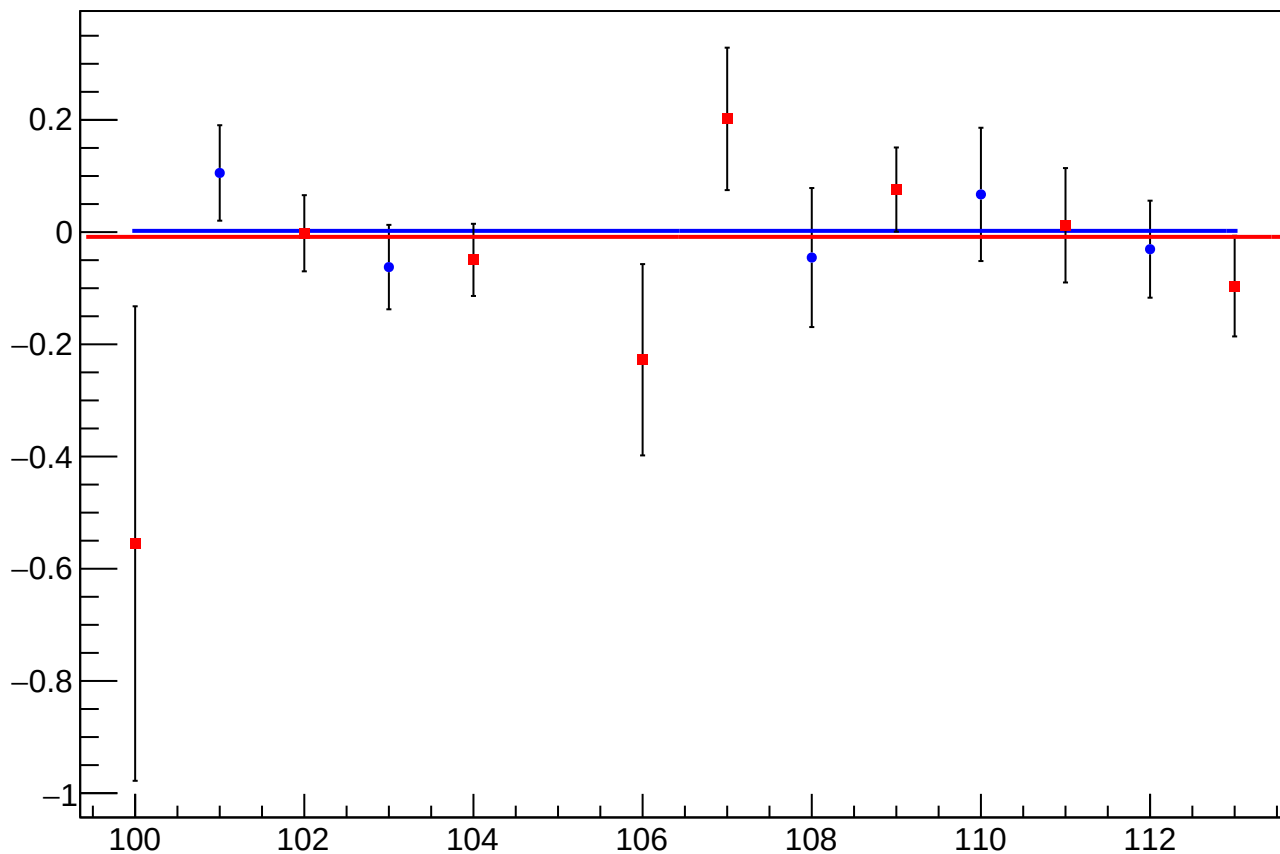
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 58.731 $\pm$ 0.018  $\chi^2$ /NDF: 274967.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.002 $\pm$ 0.041  $\chi^2$ /NDF: 2.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.008 $\pm$ 0.032  $\chi^2$ /NDF: 8.7/7

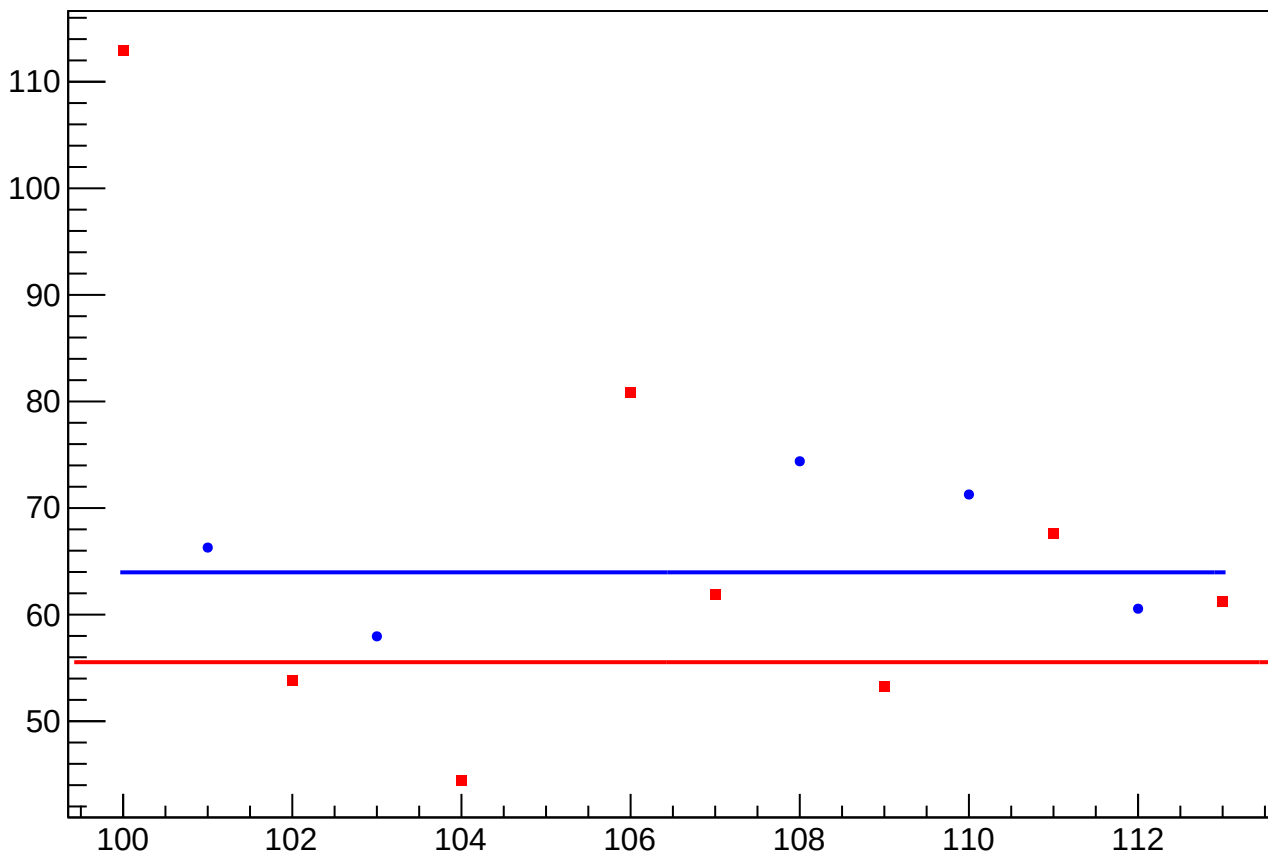
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.004 $\pm$ 0.025  $\chi^2$ /NDF: 11.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 63.968+/-0.029  $\chi^2/\text{NDF}$ : 39055.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.538+/-0.023  $\chi^2/\text{NDF}$ : 184283.2/7

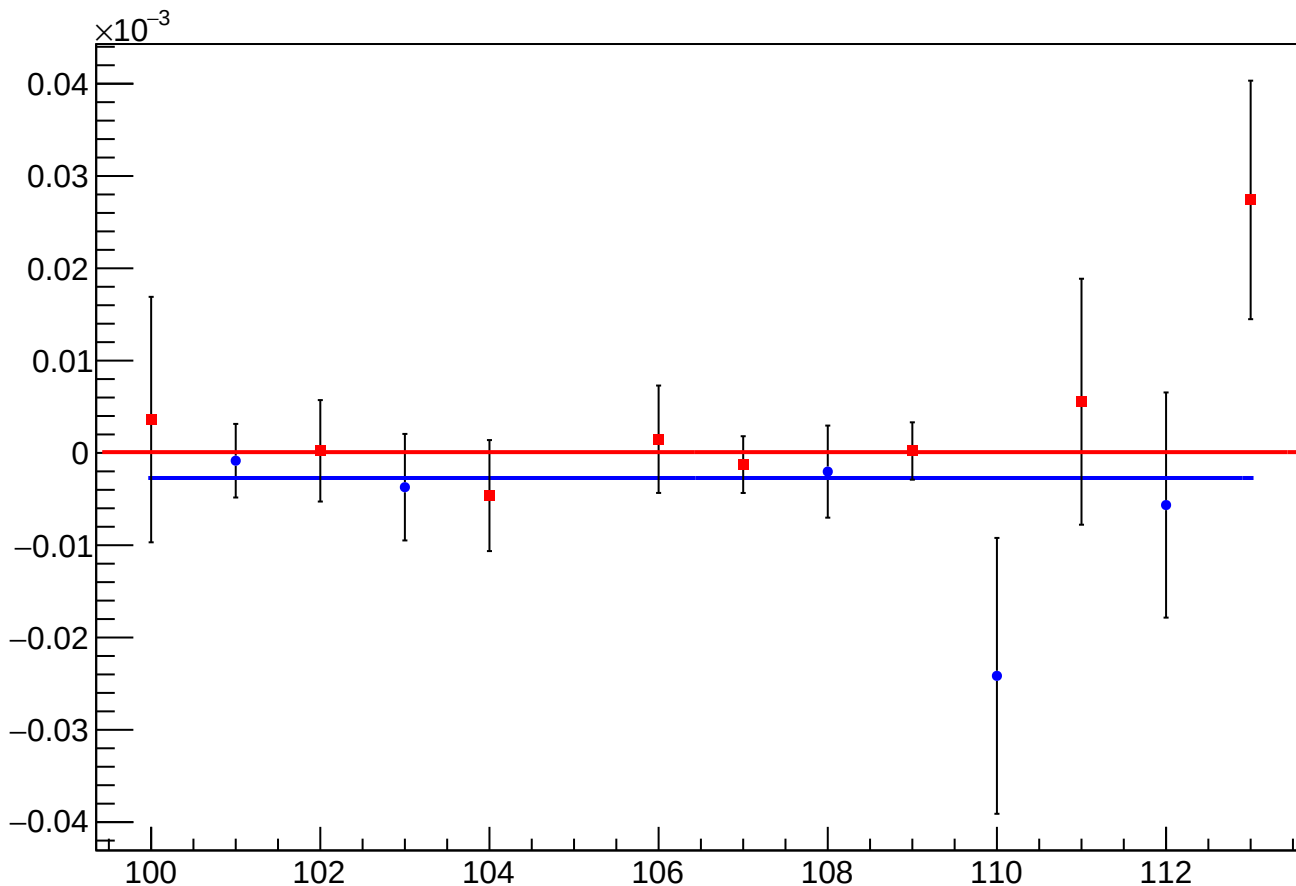
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 58.731+/-0.018  $\chi^2/\text{NDF}$ : 274967.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.6/7

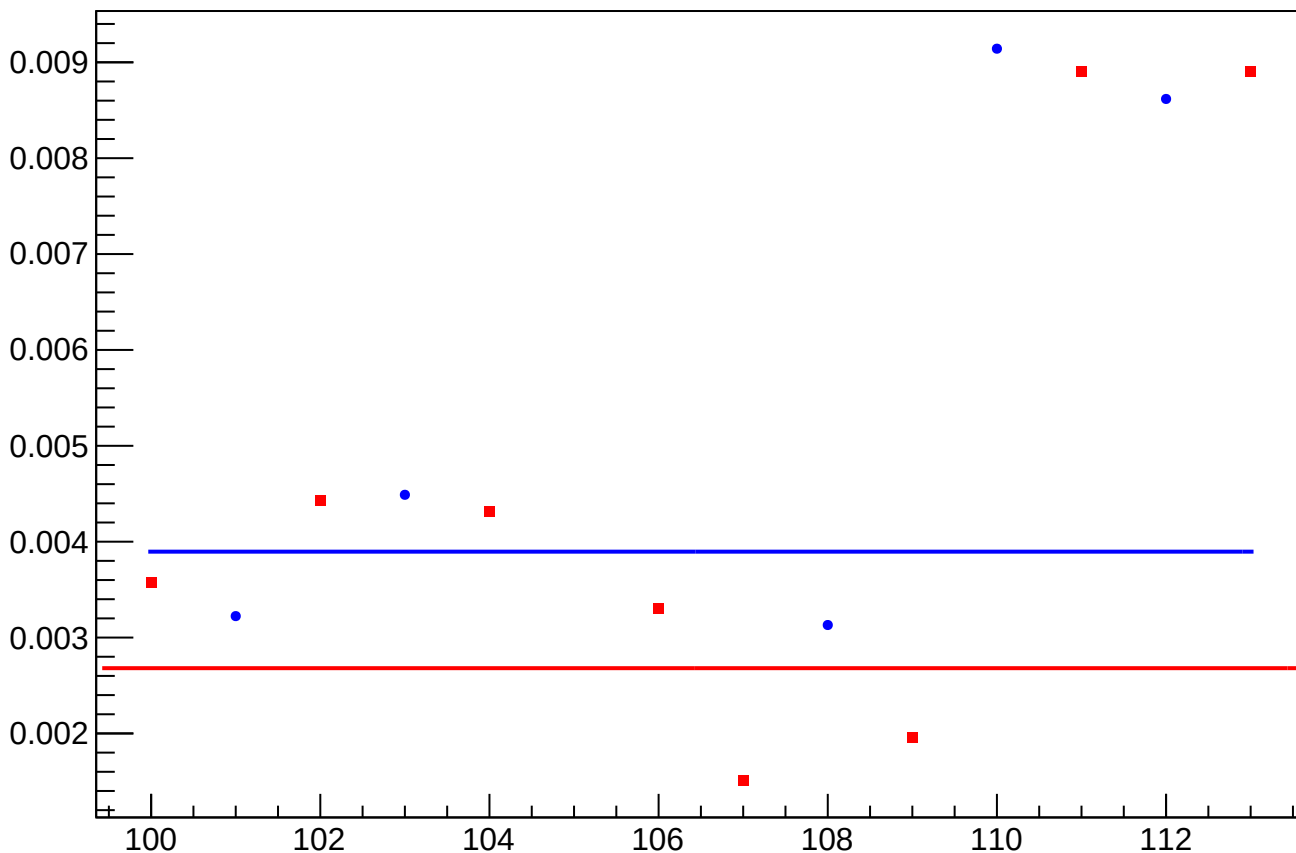
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 671257.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 1679696.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

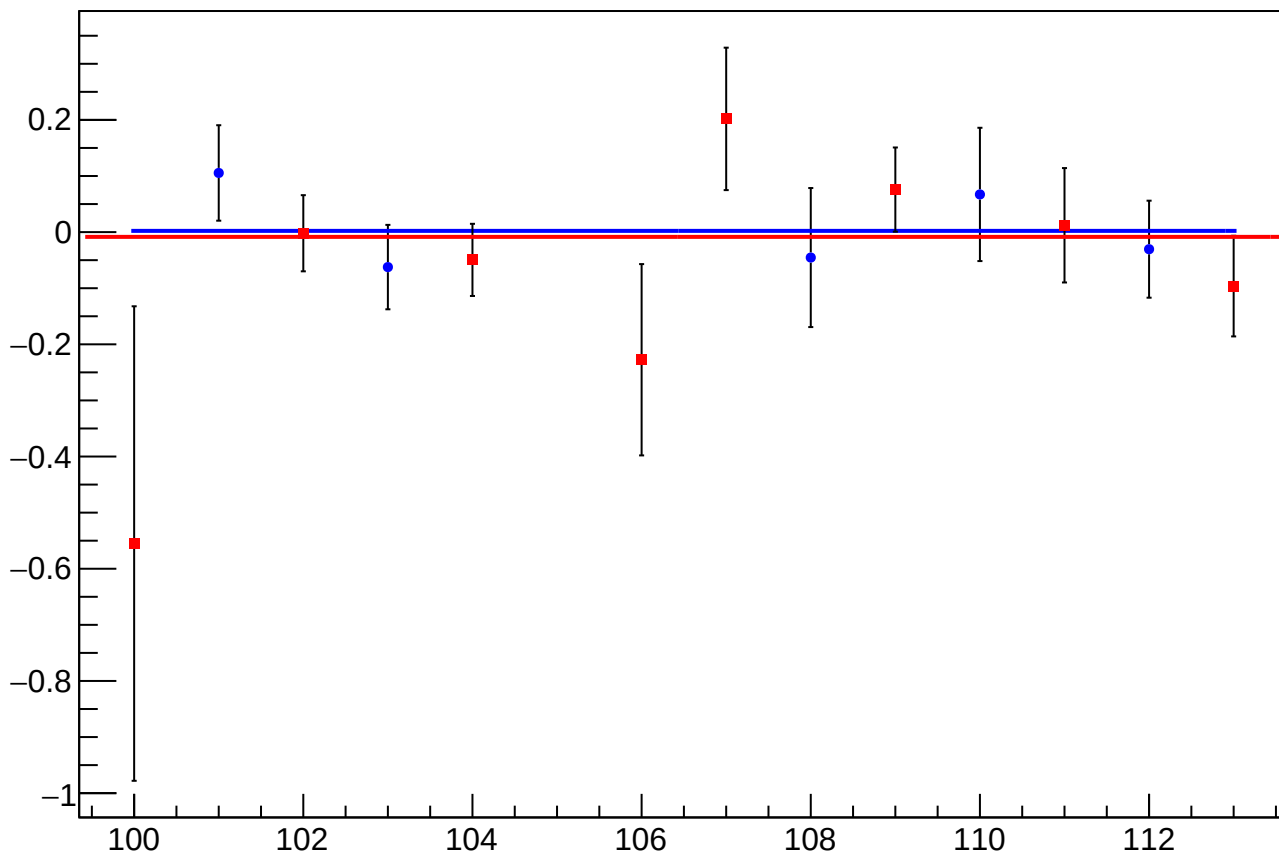
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 2643945.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_2468\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.002 $\pm$ 0.041  $\chi^2$ /NDF: 2.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.008 $\pm$ 0.032  $\chi^2$ /NDF: 8.7/7

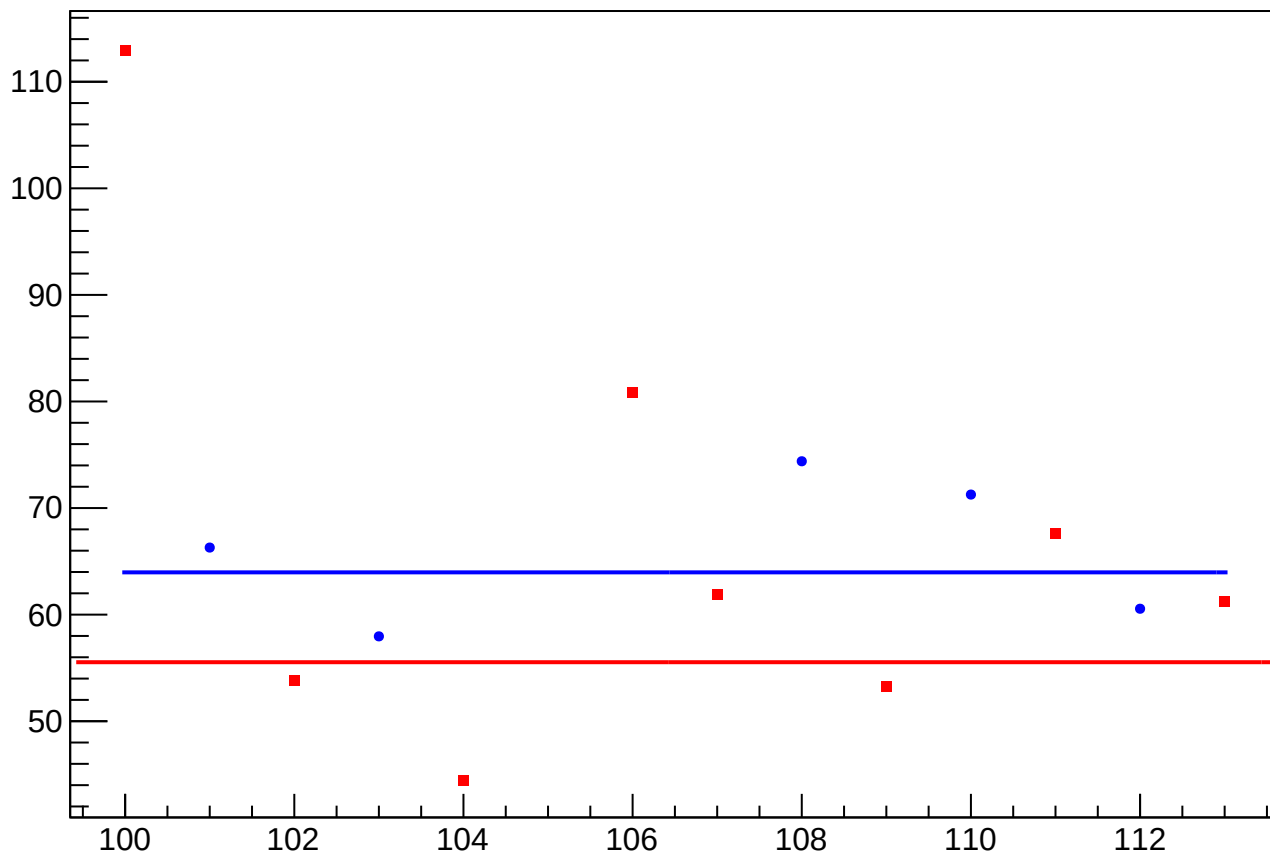
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.004 $\pm$ 0.025  $\chi^2$ /NDF: 11.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 63.966+/-0.029  $\chi^2/\text{NDF}$ : 39061.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.536+/-0.023  $\chi^2/\text{NDF}$ : 184252.0/7

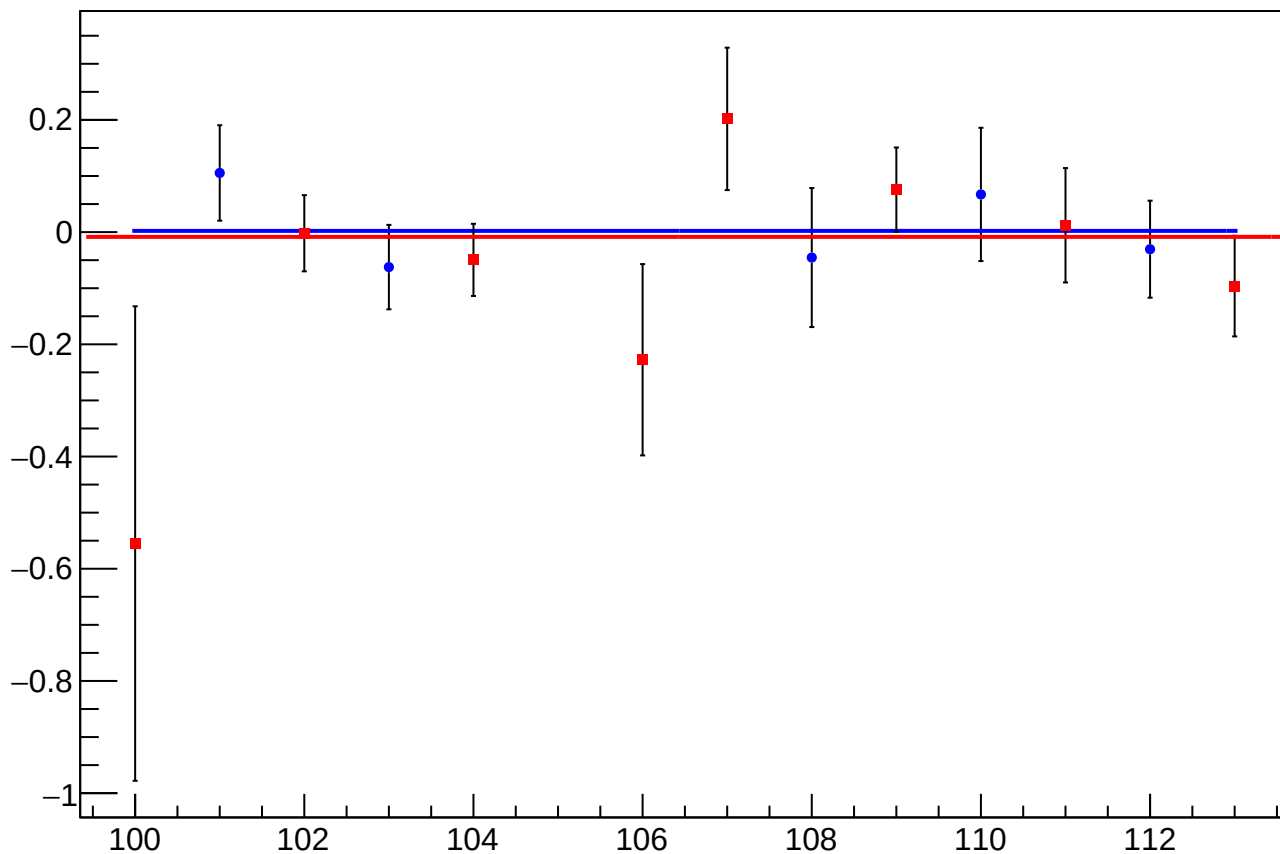
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 58.729+/-0.018  $\chi^2/\text{NDF}$ : 274939.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.002 $\pm$ 0.041  $\chi^2$ /NDF: 2.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.008 $\pm$ 0.032  $\chi^2$ /NDF: 8.7/7

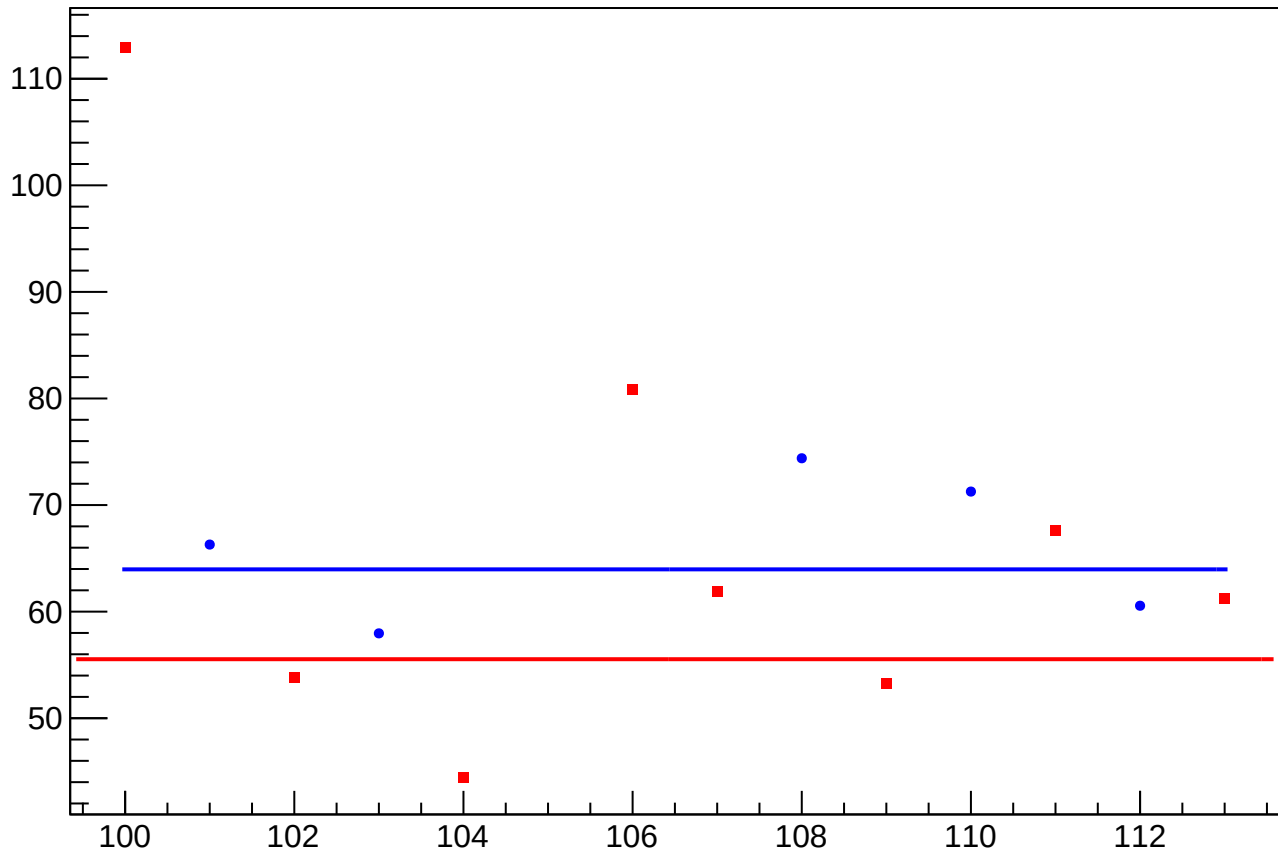
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.004 $\pm$ 0.025  $\chi^2$ /NDF: 11.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 63.966+/-0.029  $\chi^2/\text{NDF}$ : 39061.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.536+/-0.023  $\chi^2/\text{NDF}$ : 184252.0/7

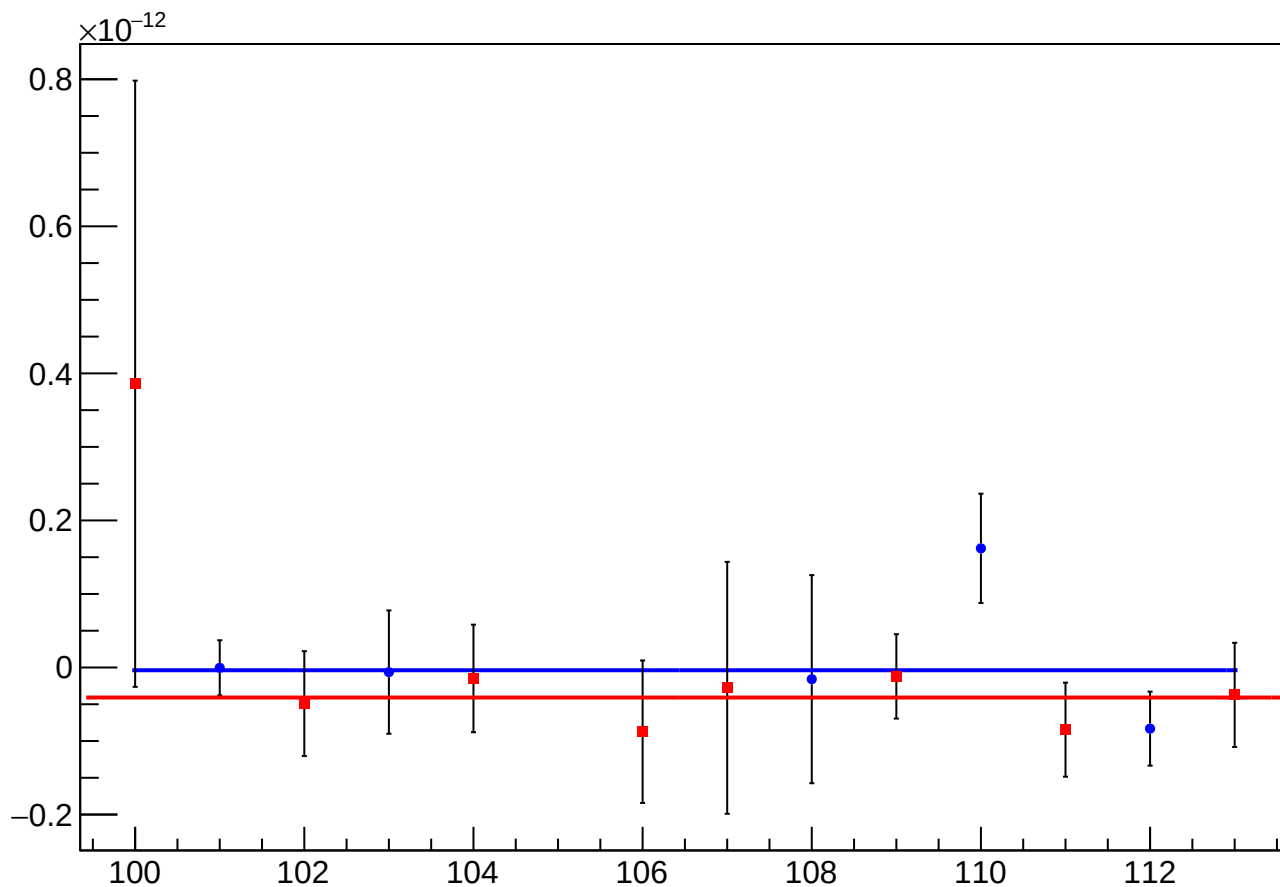
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 58.729+/-0.018  $\chi^2/\text{NDF}$ : 274939.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.2/7

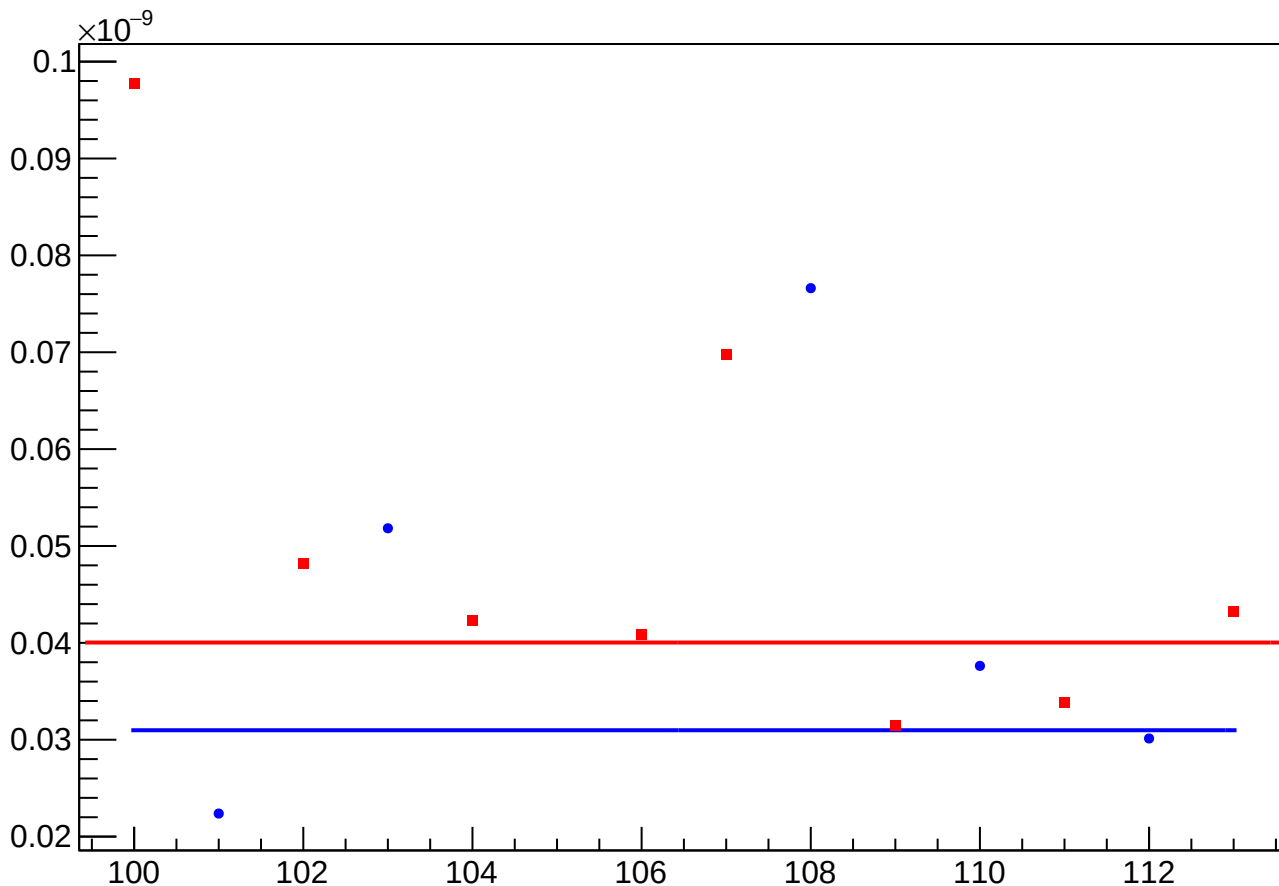
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 453180.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 194955.8/7

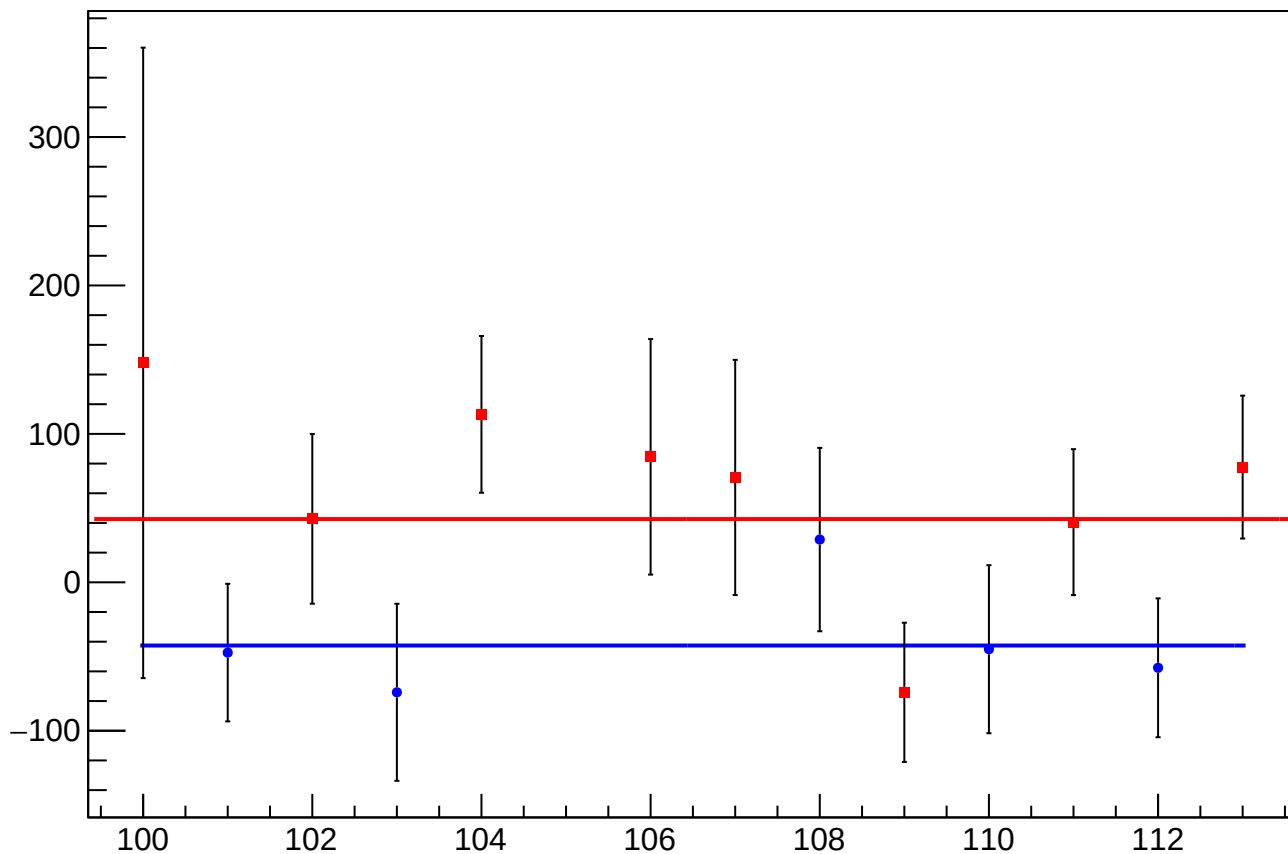
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 760480.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: -42.590 $\pm$ 23.716  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 42.616 $\pm$ 20.829  $\chi^2$ /NDF: 9.2/7

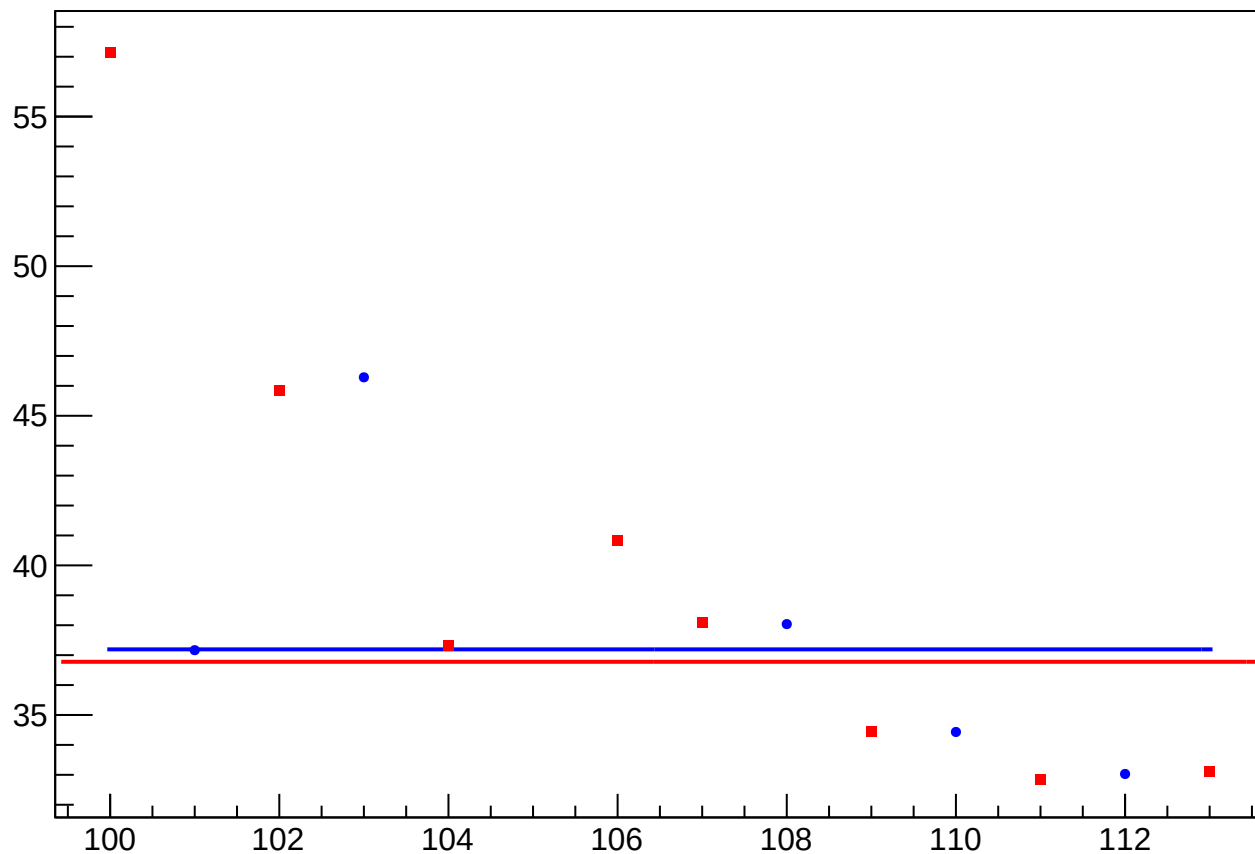
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.513 $\pm$ 15.650  $\chi^2$ /NDF: 18.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 37.193 $\pm$ 0.017  $\chi^2$ /NDF: 67482.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.778 $\pm$ 0.015  $\chi^2$ /NDF: 104100.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

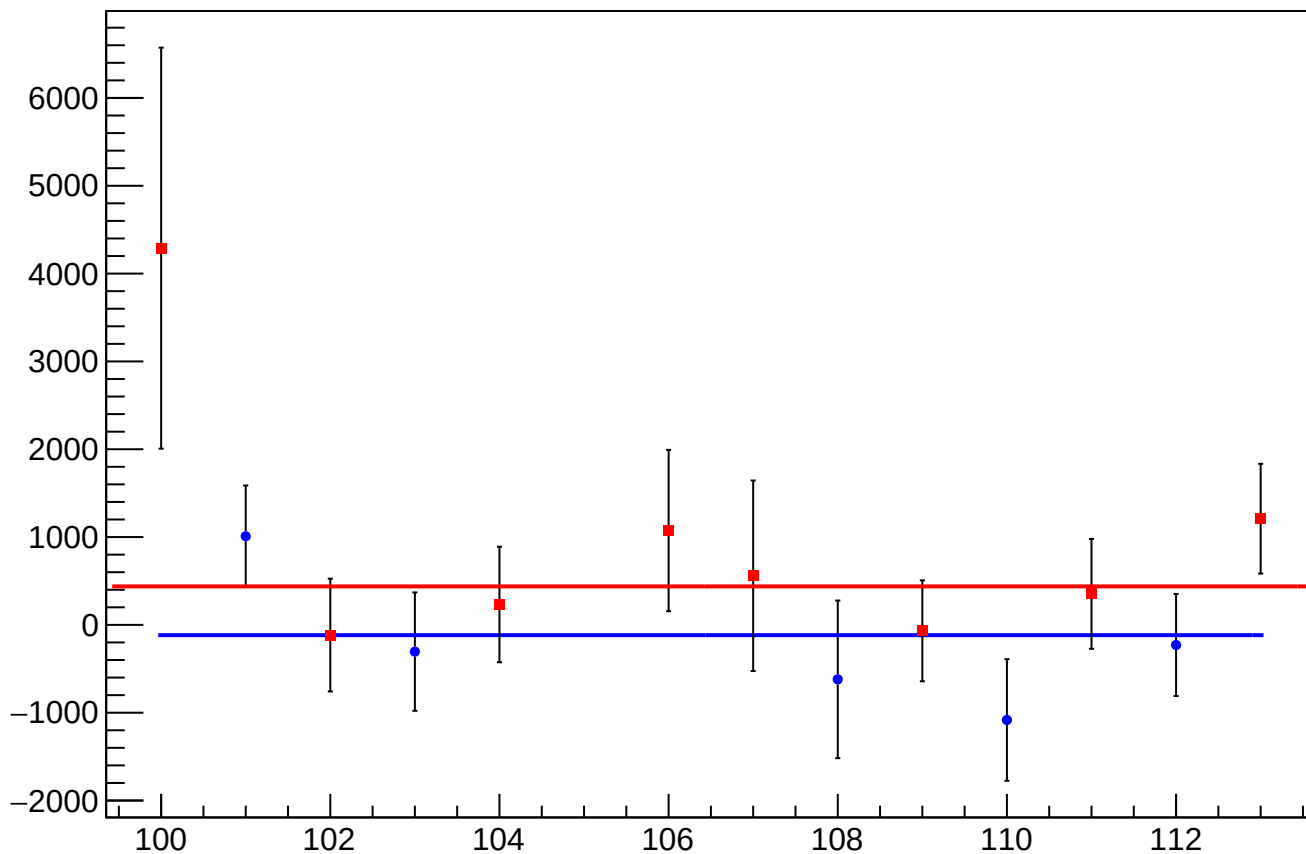
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 36.959 $\pm$ 0.011  $\chi^2$ /NDF: 171928.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1357\_2468\_dd\_reg\_correction\_mean vs Slug



Right In: -117.081+/-295.080  $\chi^2/\text{NDF}$ : 6.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 438.205+/-257.268  $\chi^2/\text{NDF}$ : 6.5/7

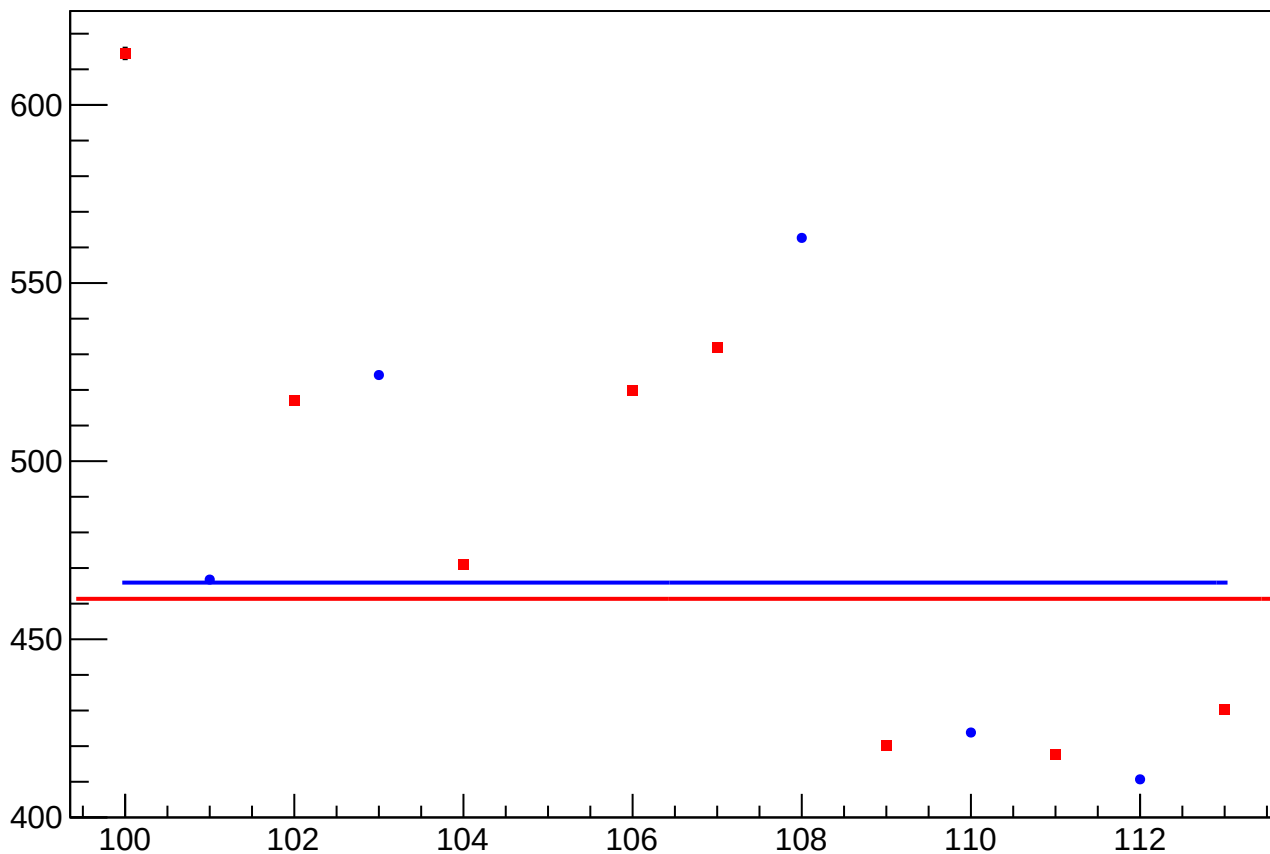
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 198.398+/-193.915  $\chi^2/\text{NDF}$ : 14.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_reg\_correction\_rms vs Slug



Right In: 465.910 $\pm$ 0.209  $\chi^2$ /NDF: 63634.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 461.355 $\pm$ 0.182  $\chi^2$ /NDF: 66056.2/7

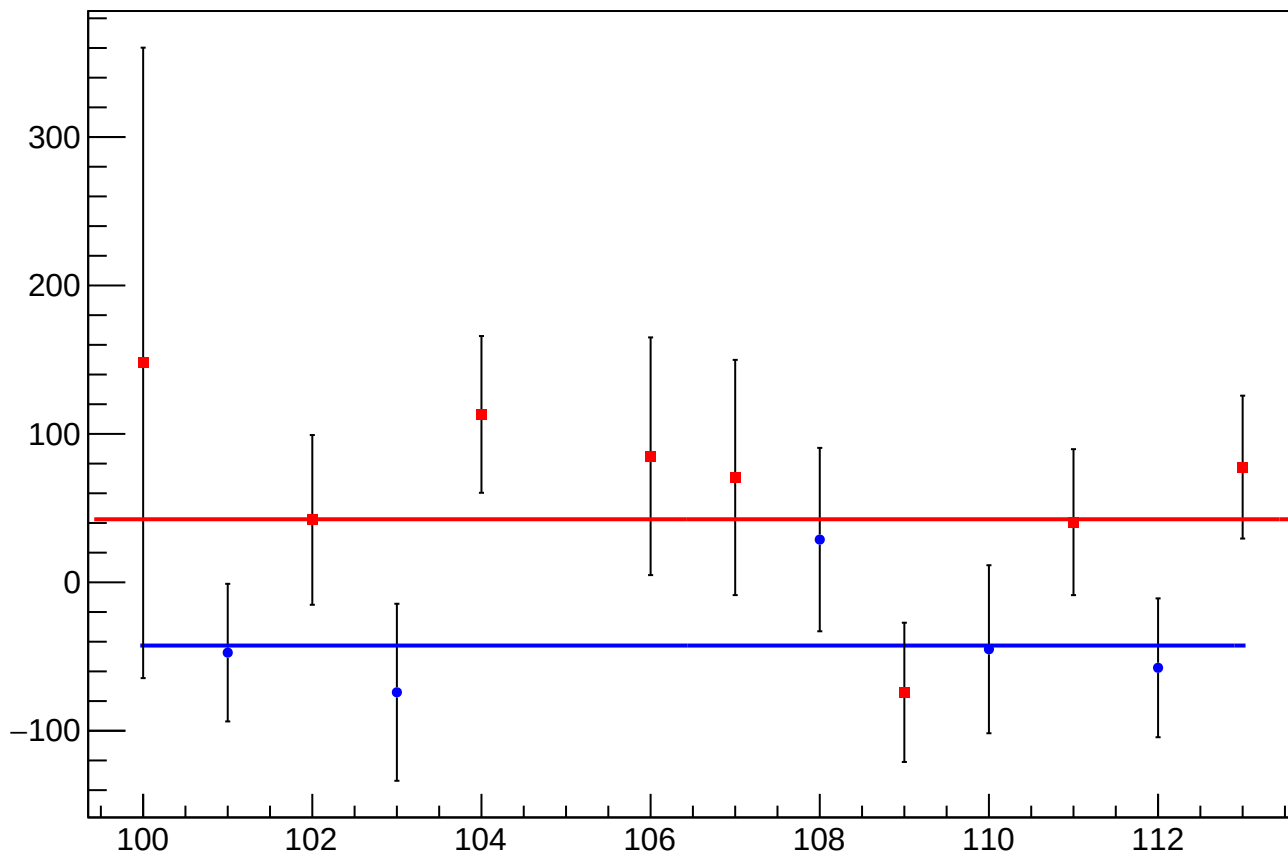
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 463.322 $\pm$ 0.137  $\chi^2$ /NDF: 129960.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In:  $-42.586 \pm 23.716$   $\chi^2/\text{NDF}$ : 1.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $42.496 \pm 20.843$   $\chi^2/\text{NDF}$ : 9.2/7

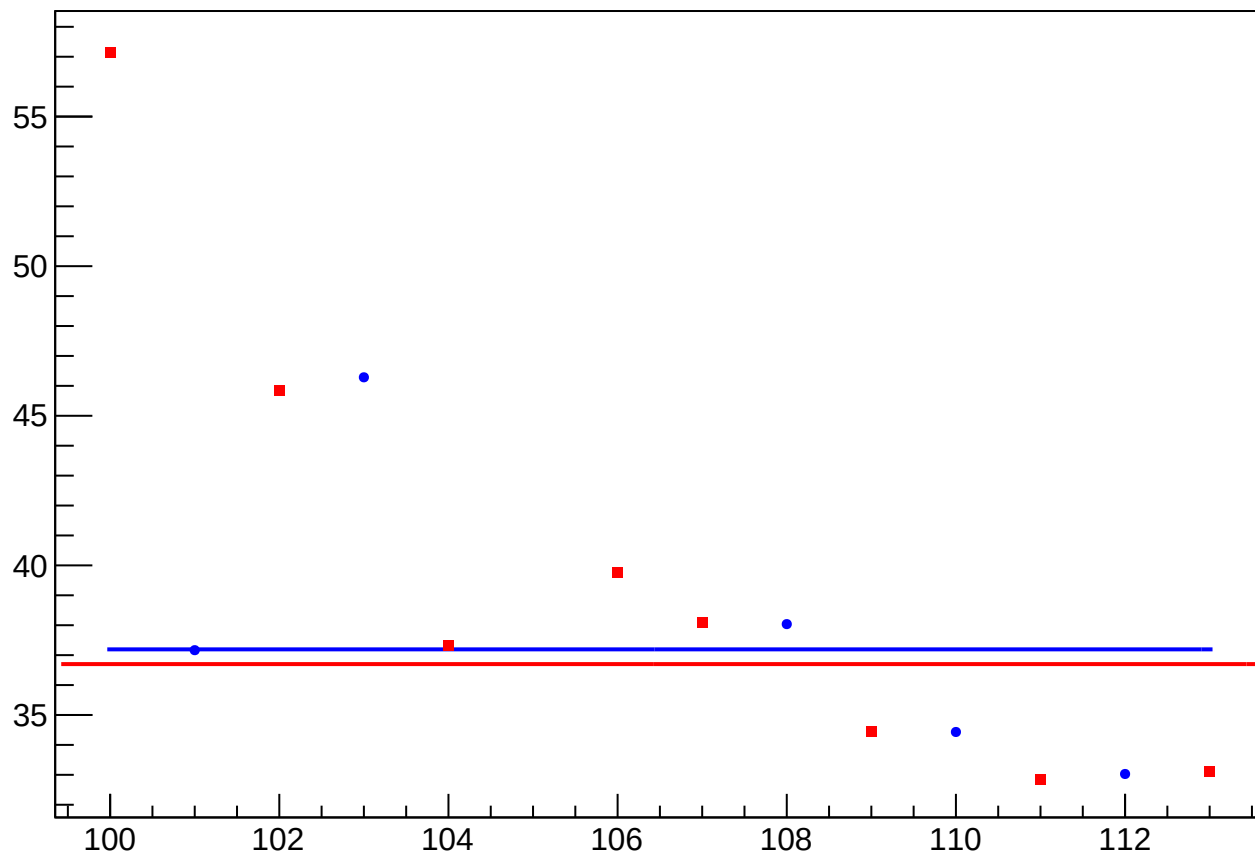
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $5.418 \pm 15.656$   $\chi^2/\text{NDF}$ : 18.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 37.193+/-0.017  $\chi^2/\text{NDF}$ : 67484.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.701+/-0.015  $\chi^2/\text{NDF}$ : 101757.8/7

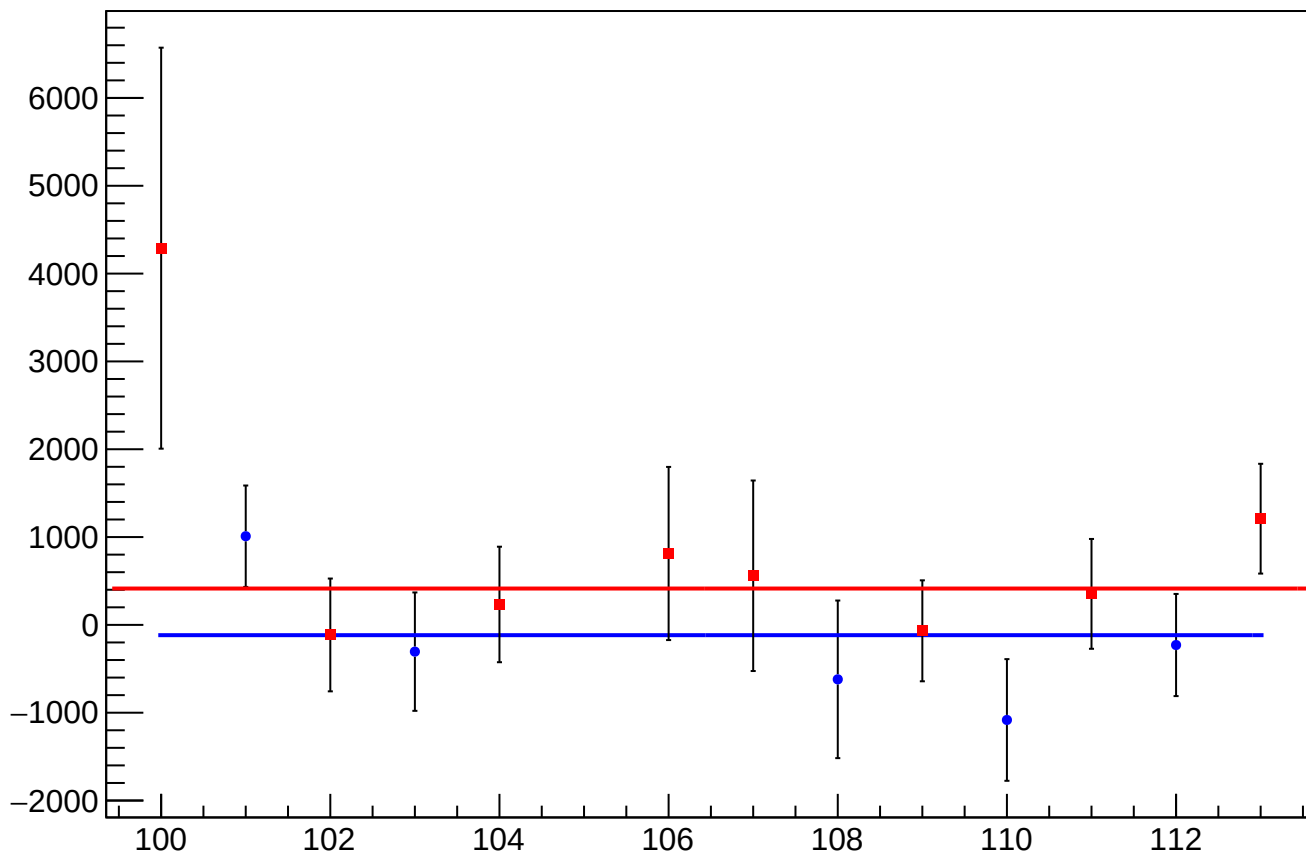
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.915+/-0.011  $\chi^2/\text{NDF}$ : 169728.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_cor\_correction\_mean vs Slug



Right In: -117.115+/-295.083  $\chi^2/\text{NDF}$ : 6.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 413.931+/-258.626  $\chi^2/\text{NDF}$ : 6.1/7

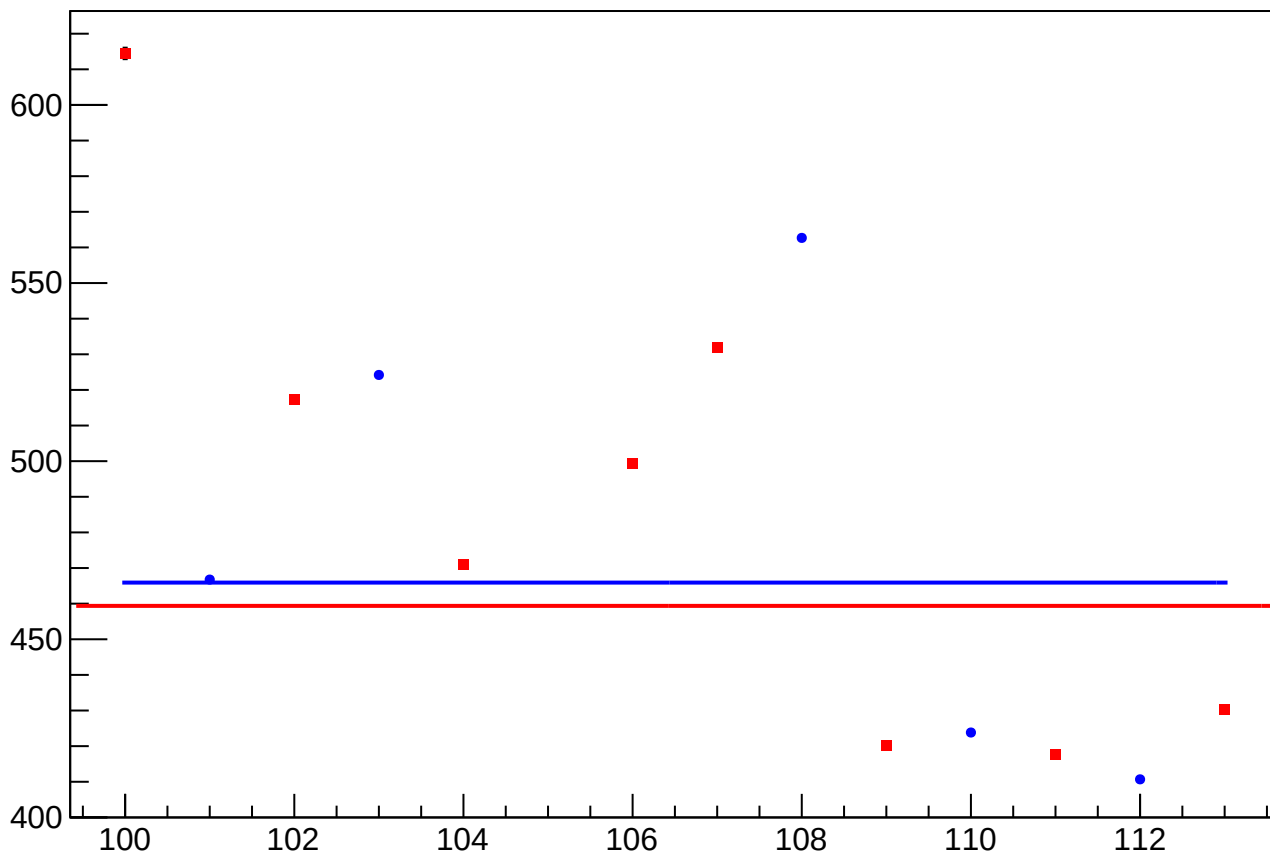
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 183.222+/-194.496  $\chi^2/\text{NDF}$ : 14.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_cor\_correction\_rms vs Slug



Right In: 465.913 $\pm$ 0.209  $\chi^2$ /NDF: 63645.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 459.376 $\pm$ 0.183  $\chi^2$ /NDF: 60941.1/7

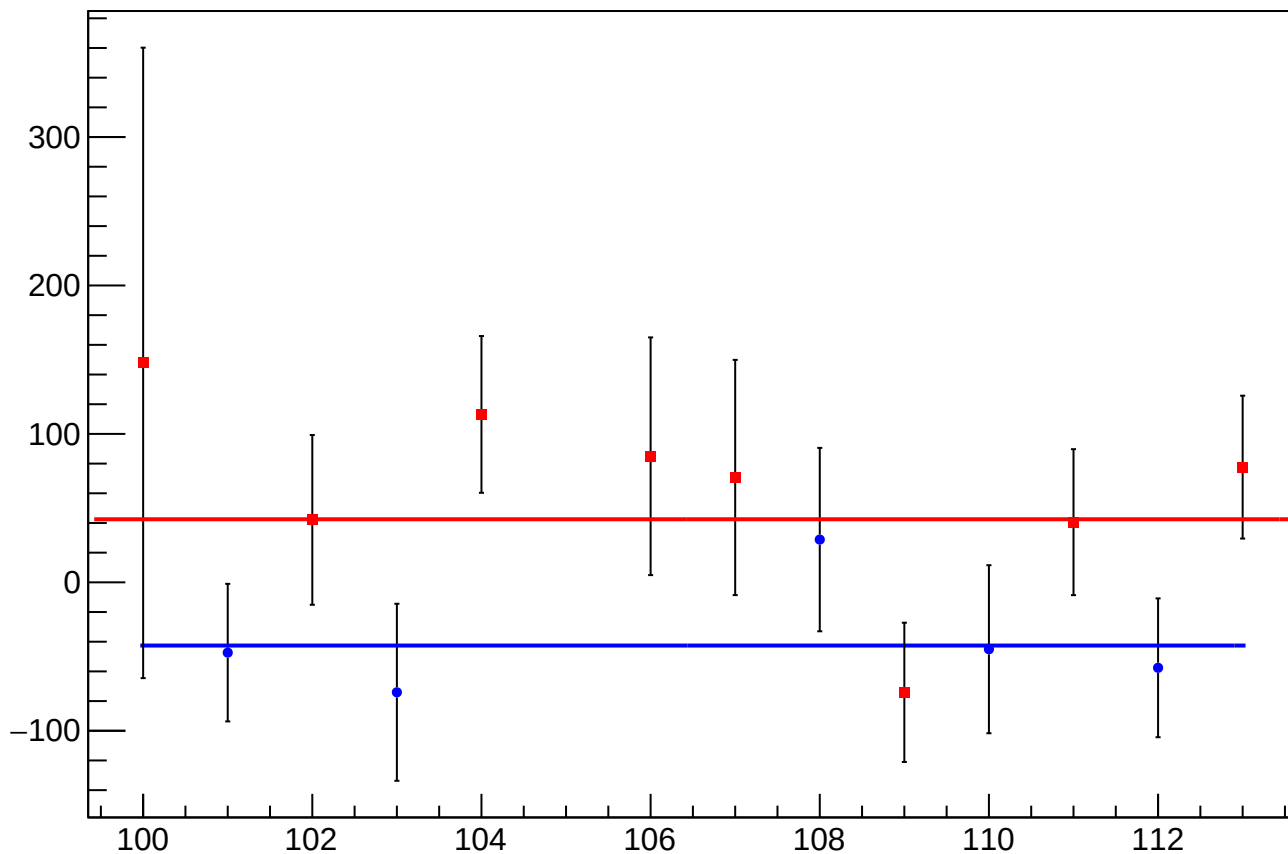
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 462.216 $\pm$ 0.138  $\chi^2$ /NDF: 125141.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: -42.586 $\pm$ 23.716  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 42.496 $\pm$ 20.843  $\chi^2$ /NDF: 9.2/7

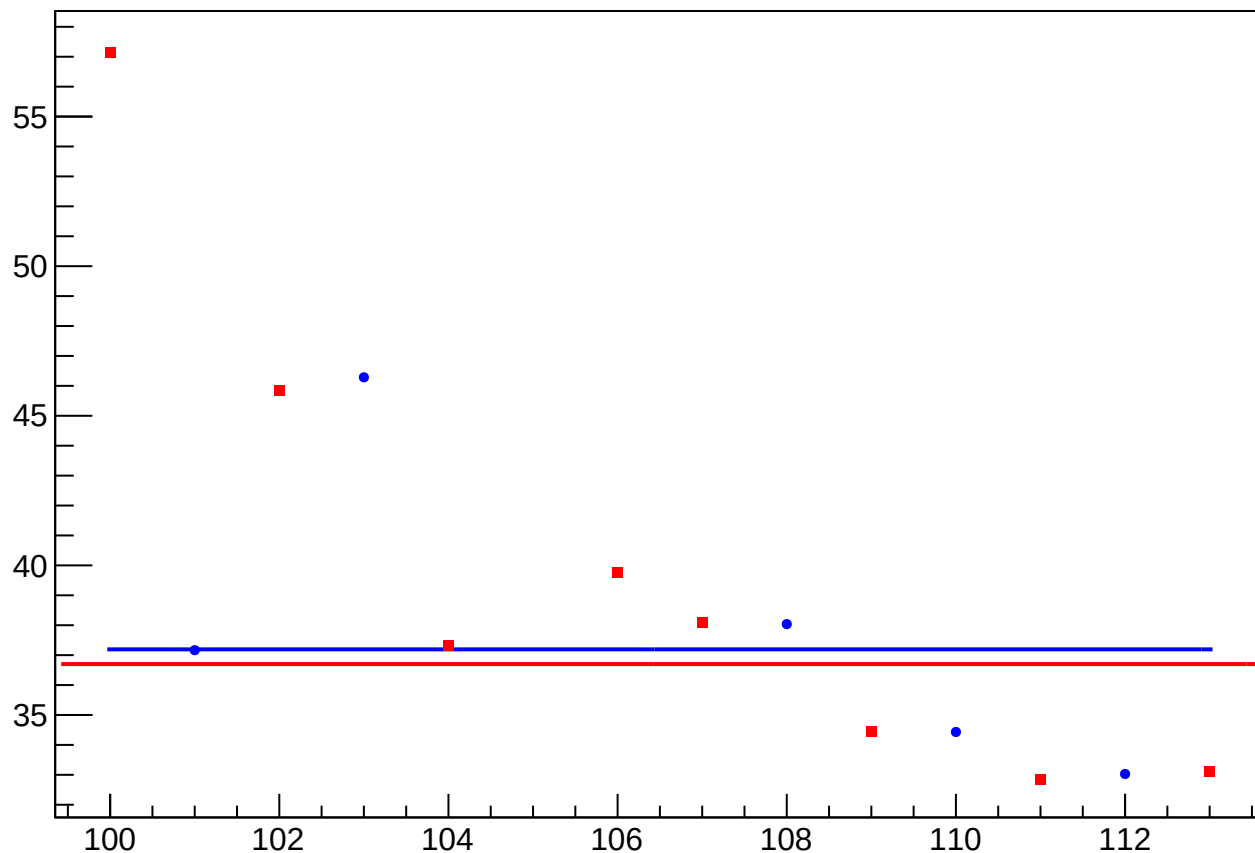
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.418 $\pm$ 15.656  $\chi^2$ /NDF: 18.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 37.193+/-0.017  $\chi^2/\text{NDF}$ : 67484.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.701+/-0.015  $\chi^2/\text{NDF}$ : 101757.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

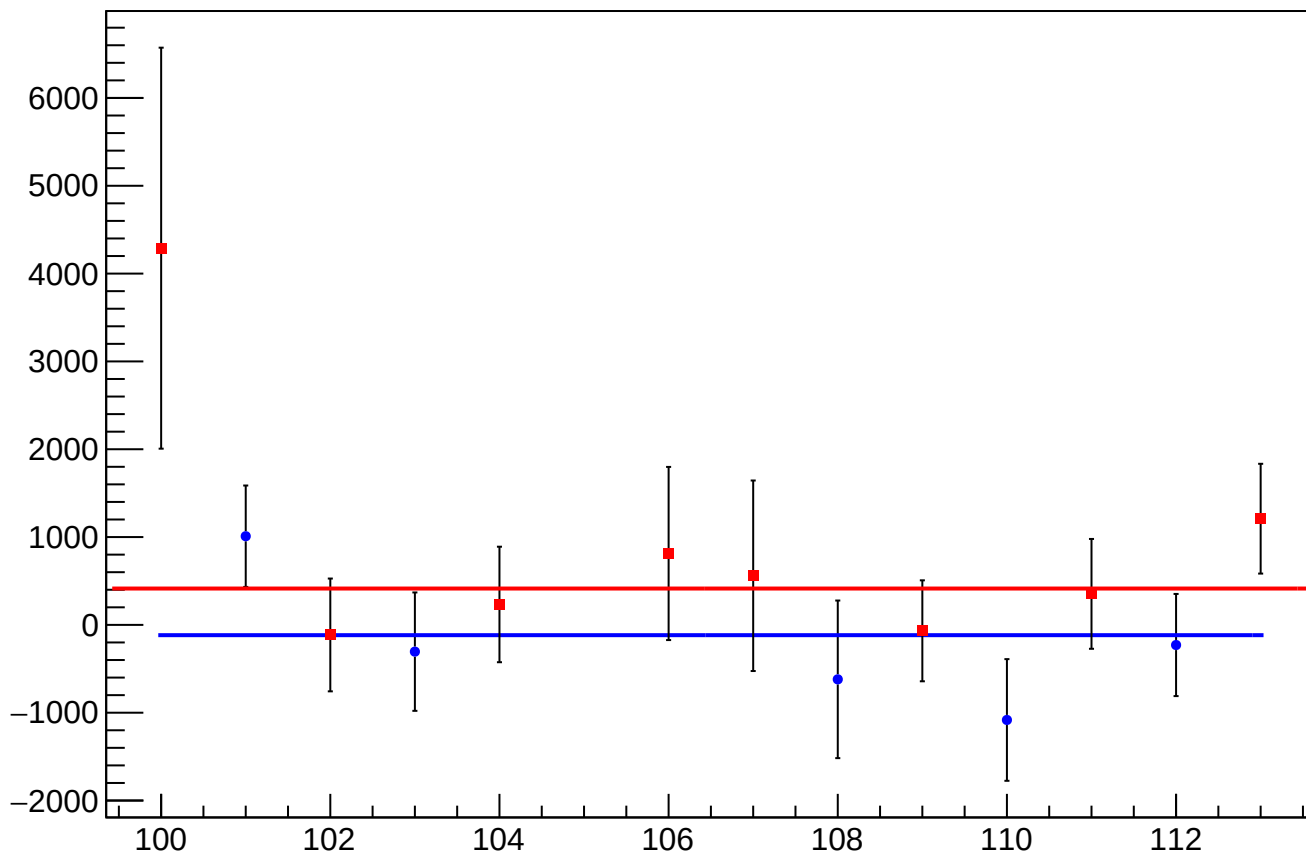
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.915+/-0.011  $\chi^2/\text{NDF}$ : 169728.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_2468\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -117.115 $\pm$ 295.083  $\chi^2$ /NDF: 6.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 413.931 $\pm$ 258.626  $\chi^2$ /NDF: 6.1/7

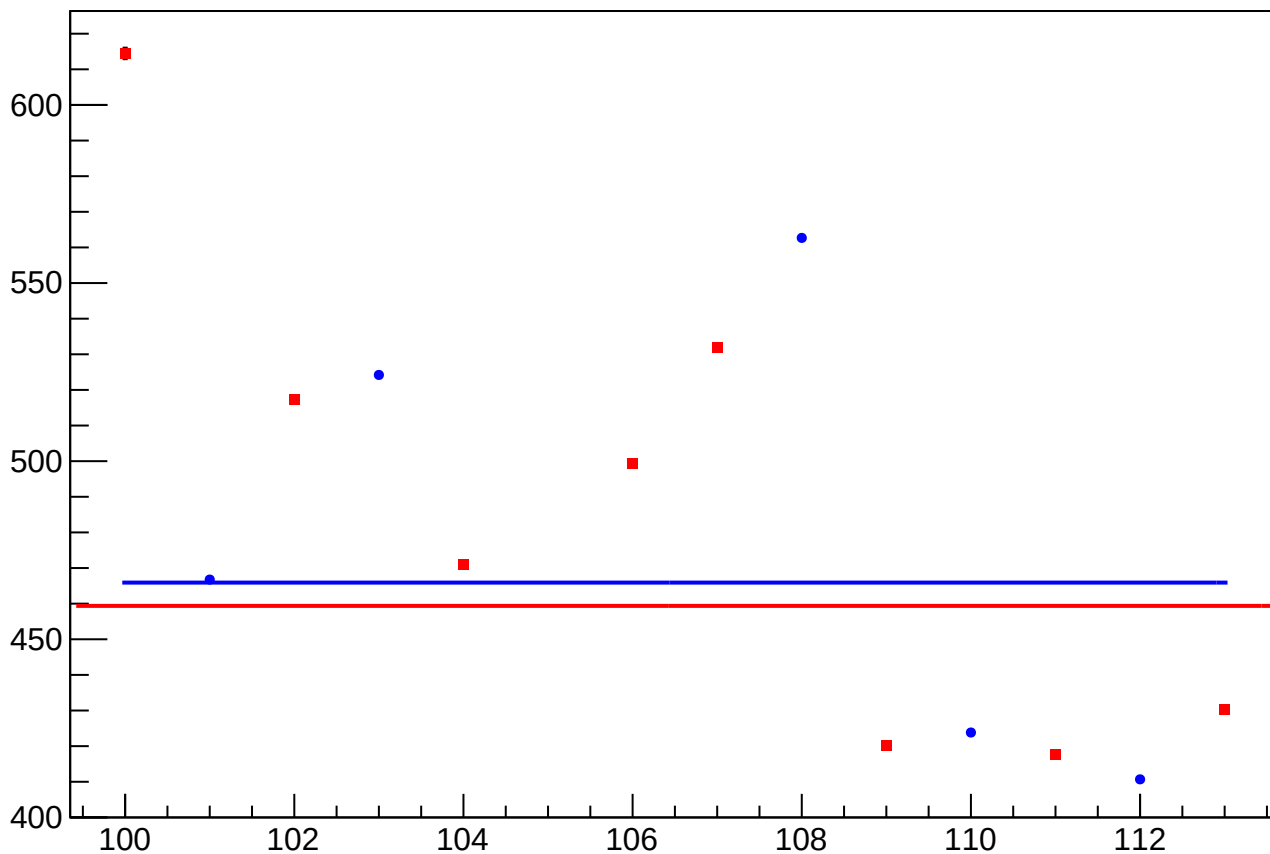
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 183.222 $\pm$ 194.496  $\chi^2$ /NDF: 14.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 465.913 $\pm$ 0.209  $\chi^2$ /NDF: 63645.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 459.376 $\pm$ 0.183  $\chi^2$ /NDF: 60941.1/7

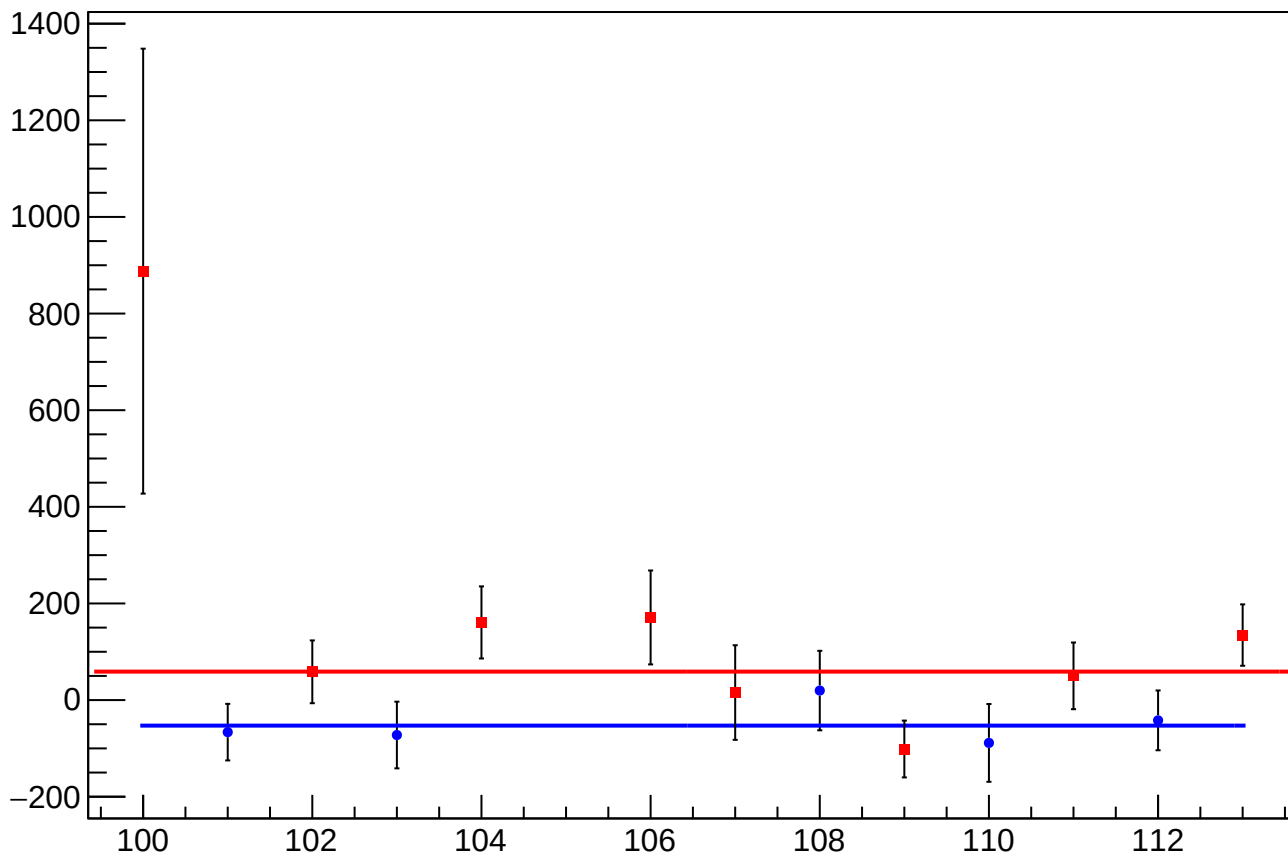
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 462.216 $\pm$ 0.138  $\chi^2$ /NDF: 125141.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: -52.842 $\pm$ 30.643  $\chi^2$ /NDF: 1.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 58.928 $\pm$ 26.935  $\chi^2$ /NDF: 15.5/7

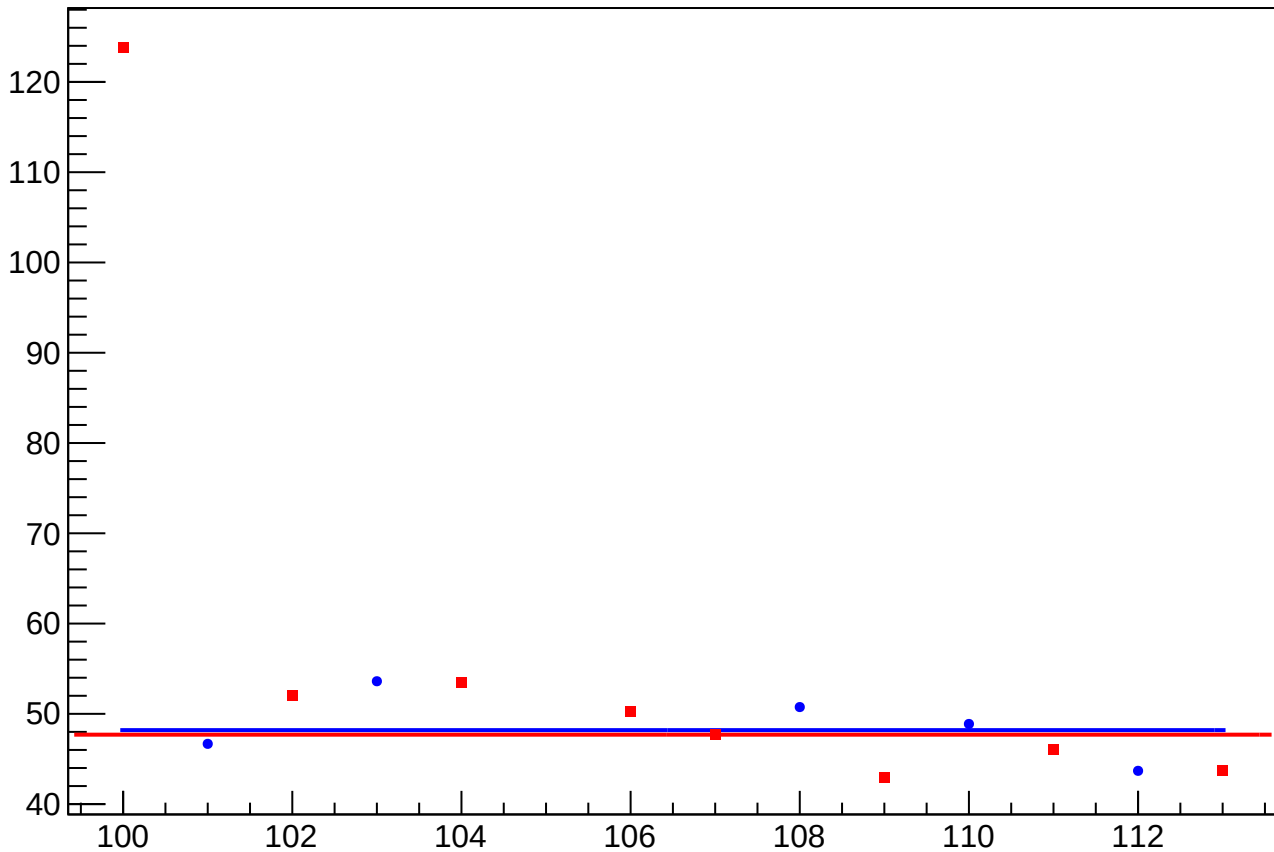
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.211 $\pm$ 20.231  $\chi^2$ /NDF: 24.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 48.195 $\pm$ 0.022  $\chi^2$ /NDF: 26349.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 47.692 $\pm$ 0.019  $\chi^2$ /NDF: 99076.3/7

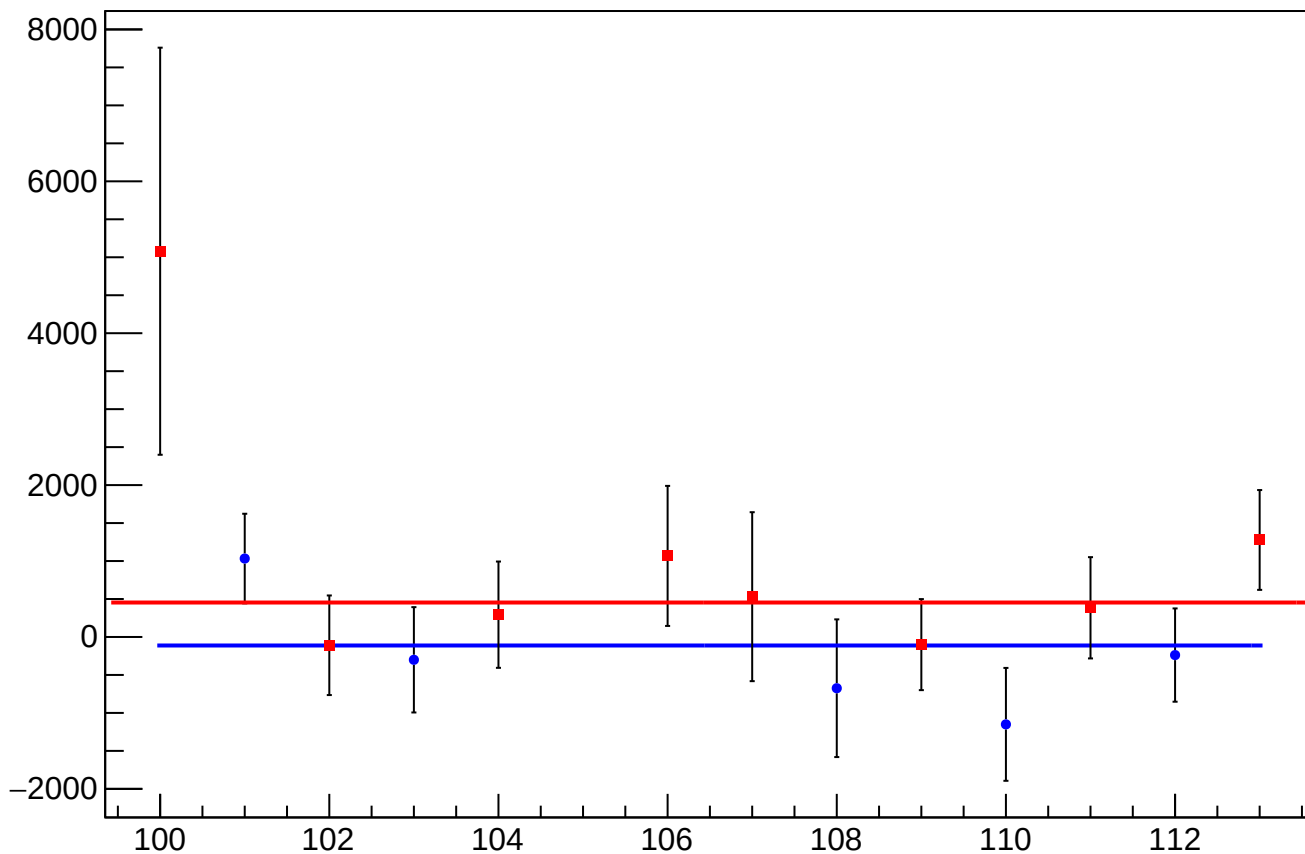
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.912 $\pm$ 0.014  $\chi^2$ /NDF: 125729.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_dit\_correction\_mean vs Slug



Right In: -112.137+/-306.681  $\chi^2/\text{NDF}$ : 6.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 453.729+/-268.818  $\chi^2/\text{NDF}$ : 6.7/7

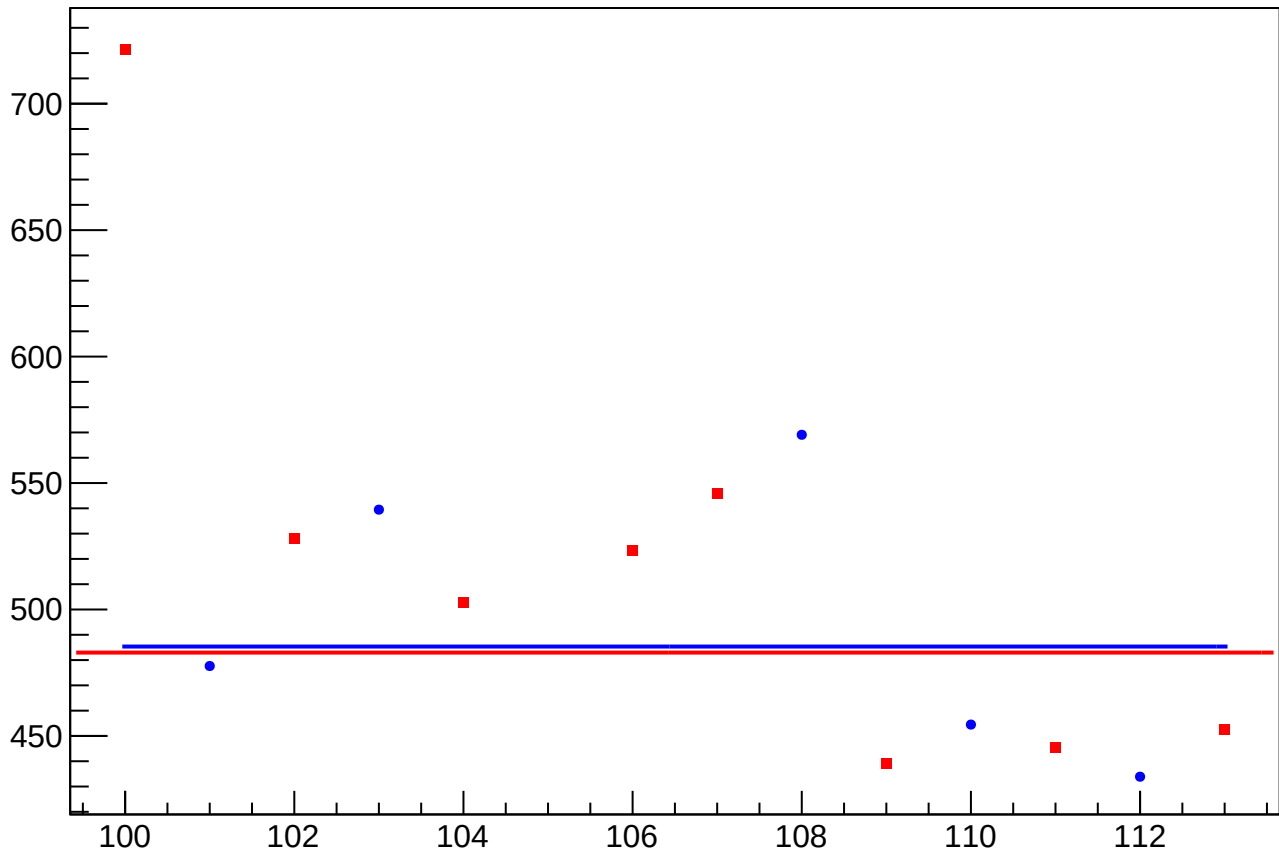
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 207.864+/-202.152  $\chi^2/\text{NDF}$ : 14.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_dit\_correction\_rms vs Slug



Right In: 485.351 $\pm$ 0.217  $\chi^2$ /NDF: 47078.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 482.967 $\pm$ 0.190  $\chi^2$ /NDF: 58461.1/7

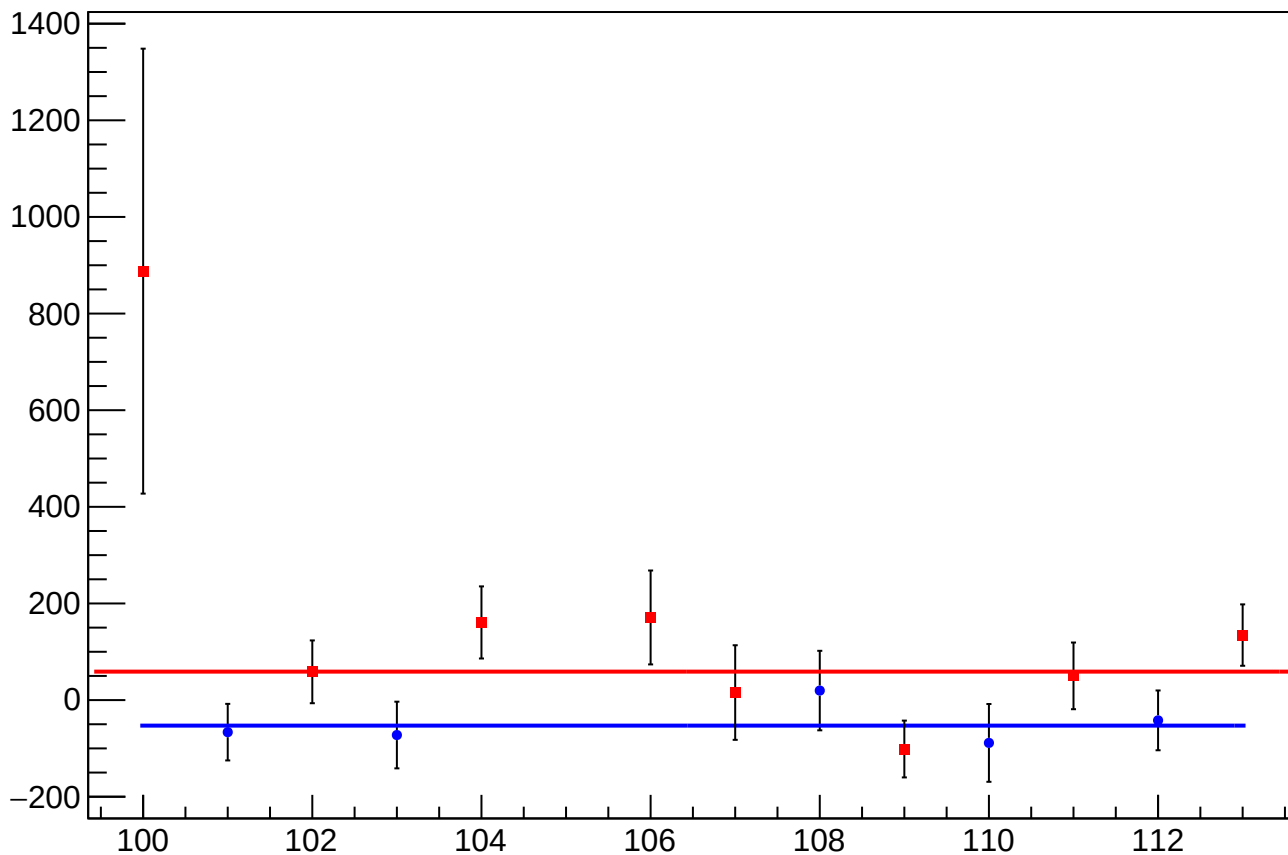
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 484.003 $\pm$ 0.143  $\chi^2$ /NDF: 105608.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: -52.840+/-30.643  $\chi^2/\text{NDF}$ : 1.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 58.926+/-26.935  $\chi^2/\text{NDF}$ : 15.5/7

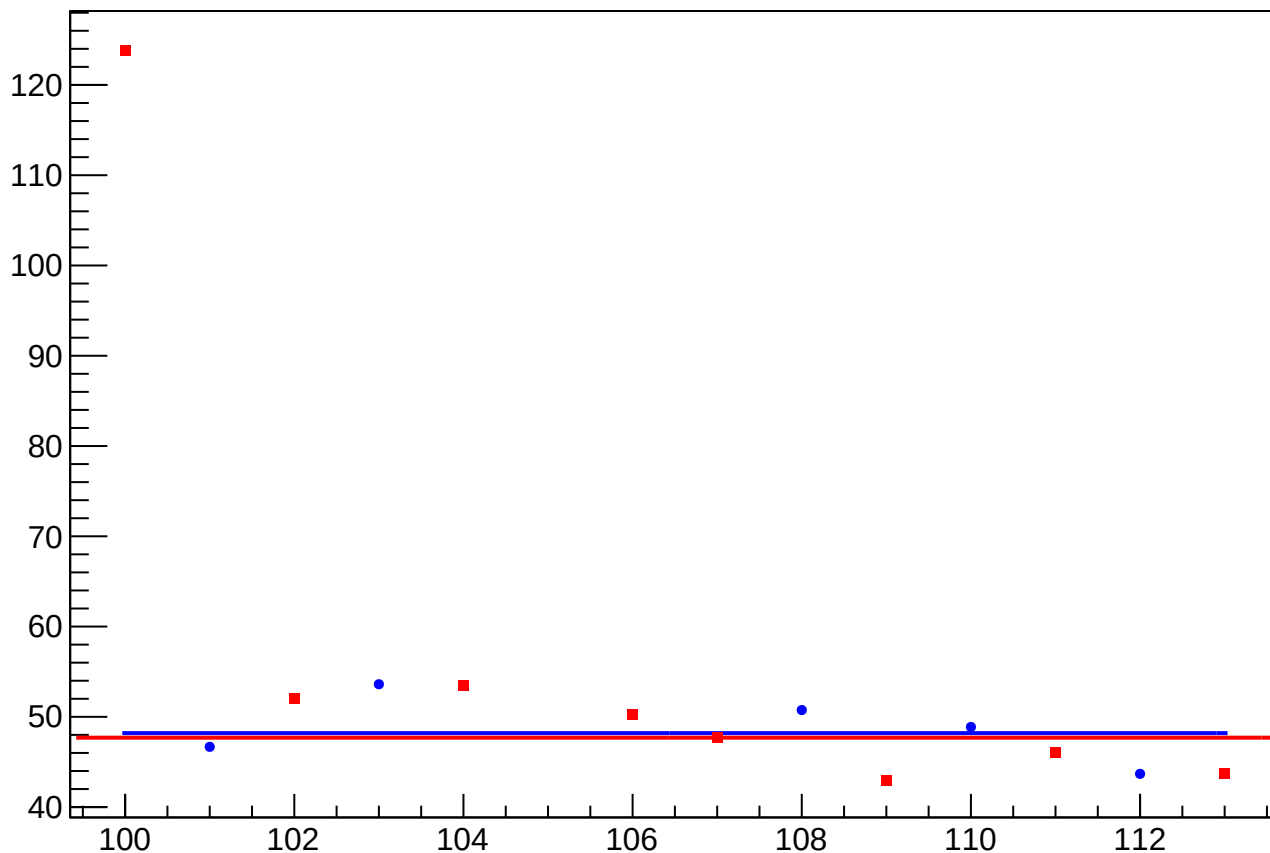
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.211+/-20.230  $\chi^2/\text{NDF}$ : 24.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 48.194 $\pm$ 0.022  $\chi^2$ /NDF: 26355.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 47.691 $\pm$ 0.019  $\chi^2$ /NDF: 99087.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

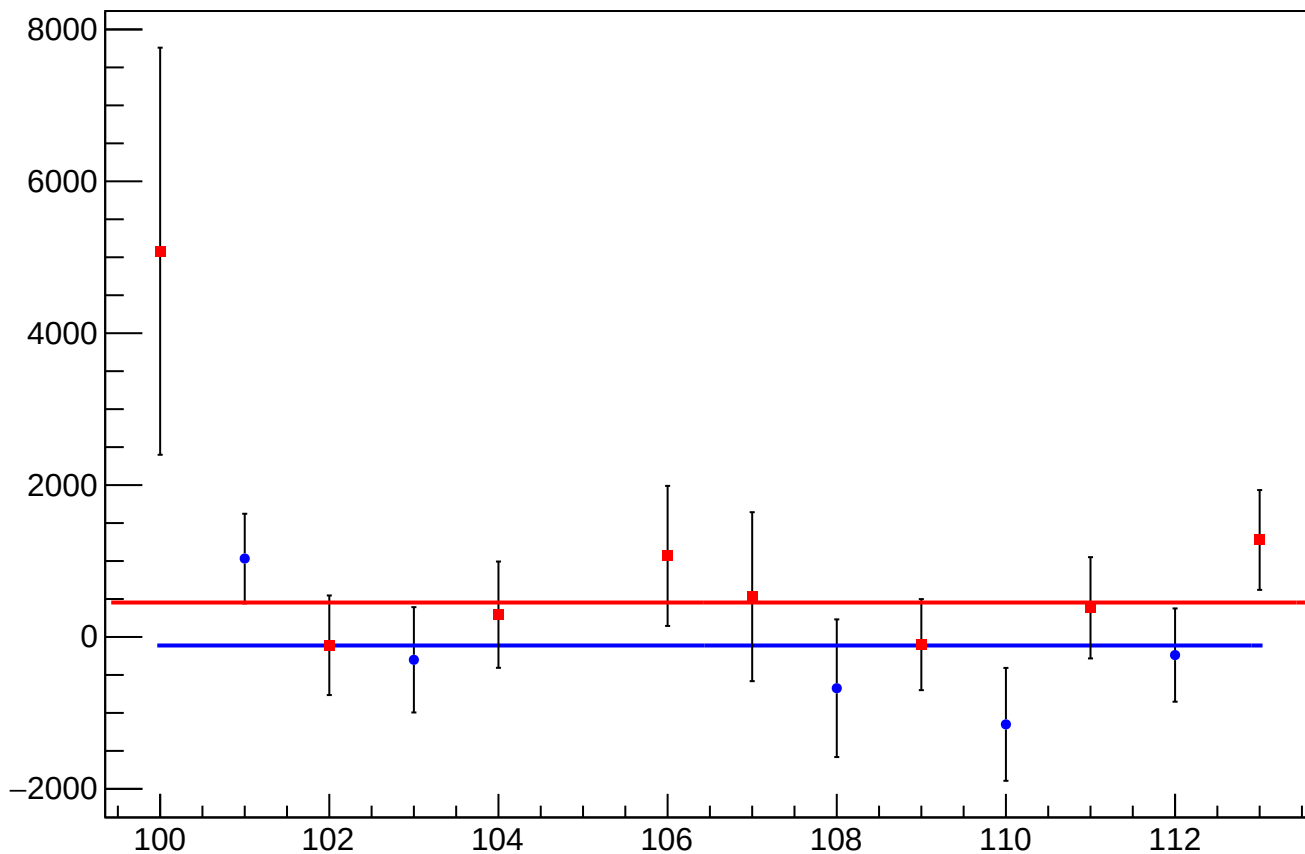
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.911 $\pm$ 0.014  $\chi^2$ /NDF: 125747.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1357\_2468\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -112.138+/-306.679  $\chi^2/\text{NDF}$ : 6.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 453.728+/-268.817  $\chi^2/\text{NDF}$ : 6.7/7

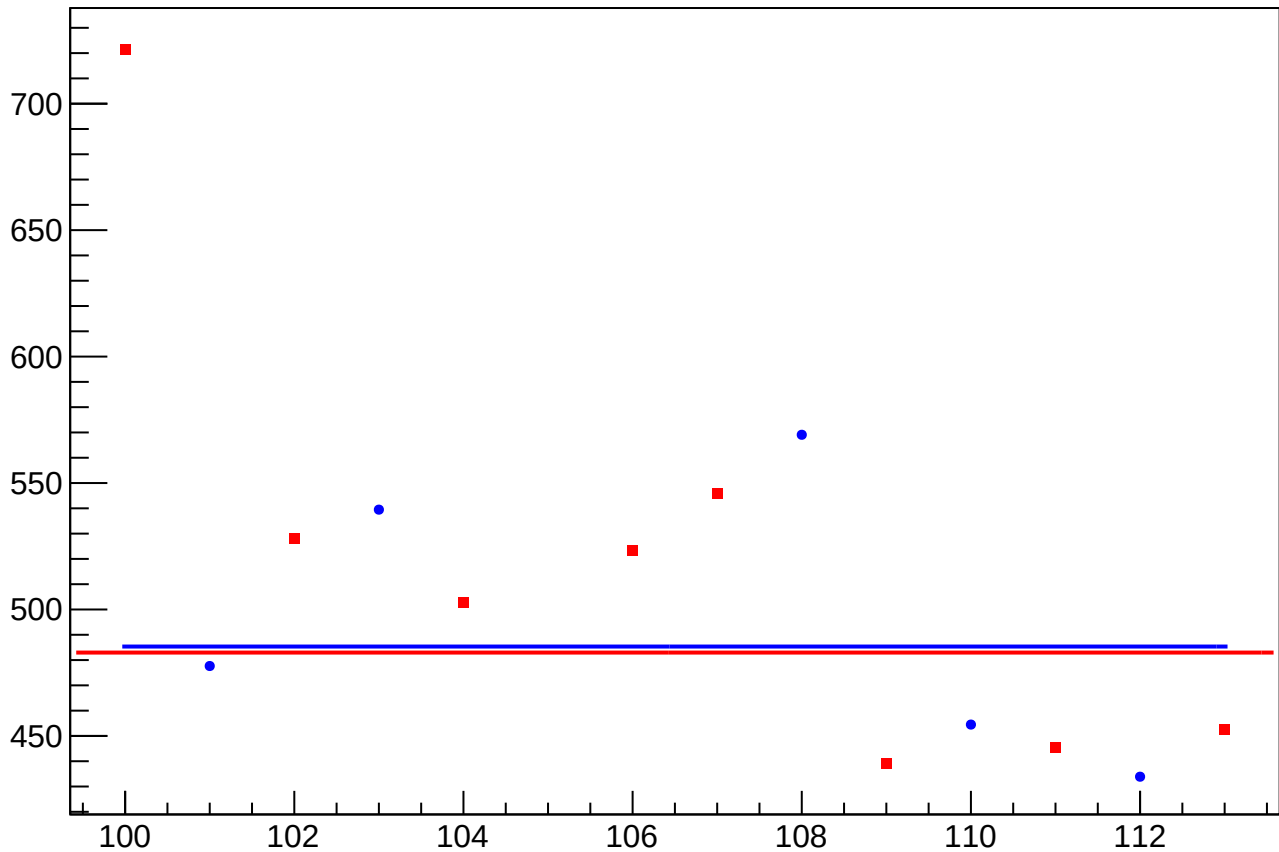
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 207.863+/-202.151  $\chi^2/\text{NDF}$ : 14.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 485.349 $\pm$ 0.217  $\chi^2$ /NDF: 47081.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 482.965 $\pm$ 0.190  $\chi^2$ /NDF: 58464.1/7

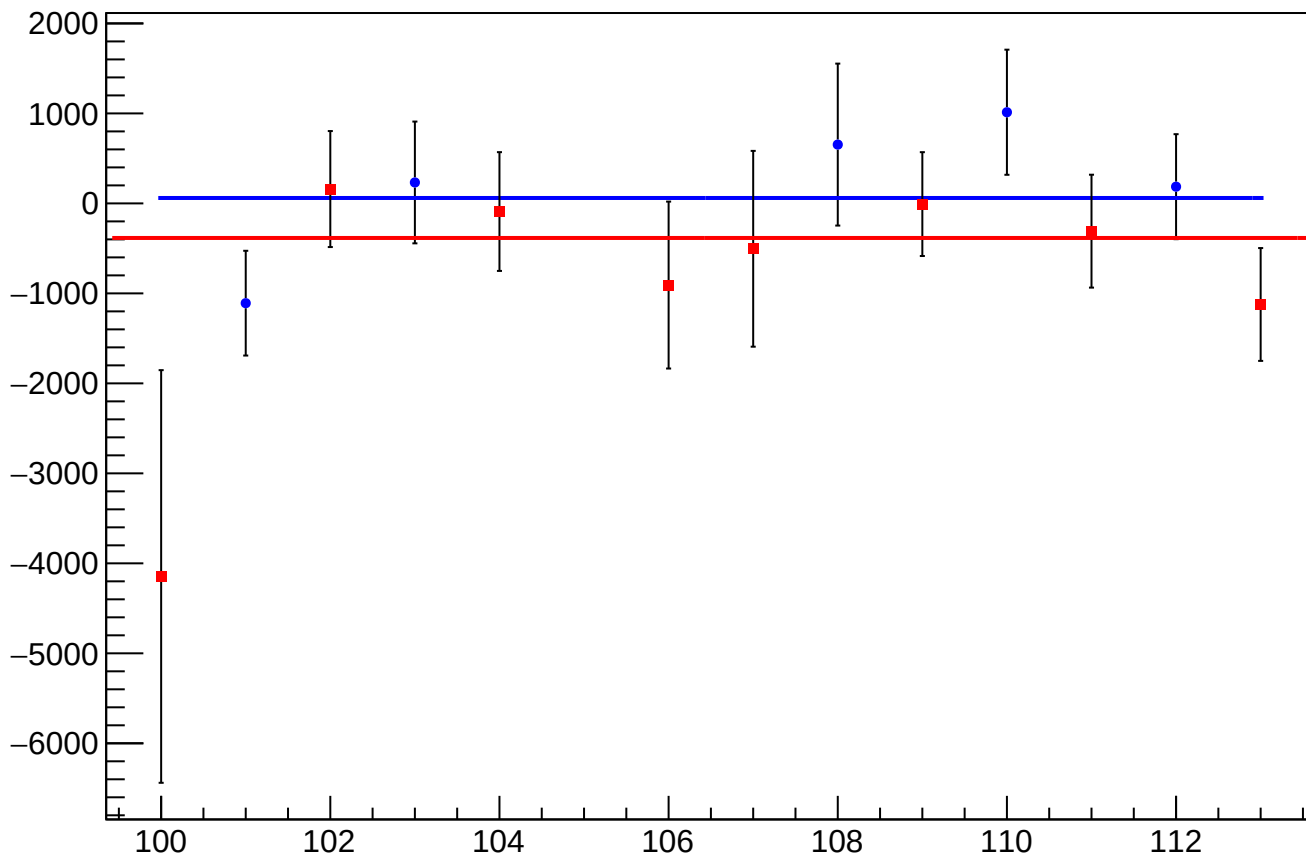
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 484.001 $\pm$ 0.143  $\chi^2$ /NDF: 105613.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: 60.144+/-296.476  $\chi^2/\text{NDF}$ : 6.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -384.201+/-258.288  $\chi^2/\text{NDF}$ : 5.8/7

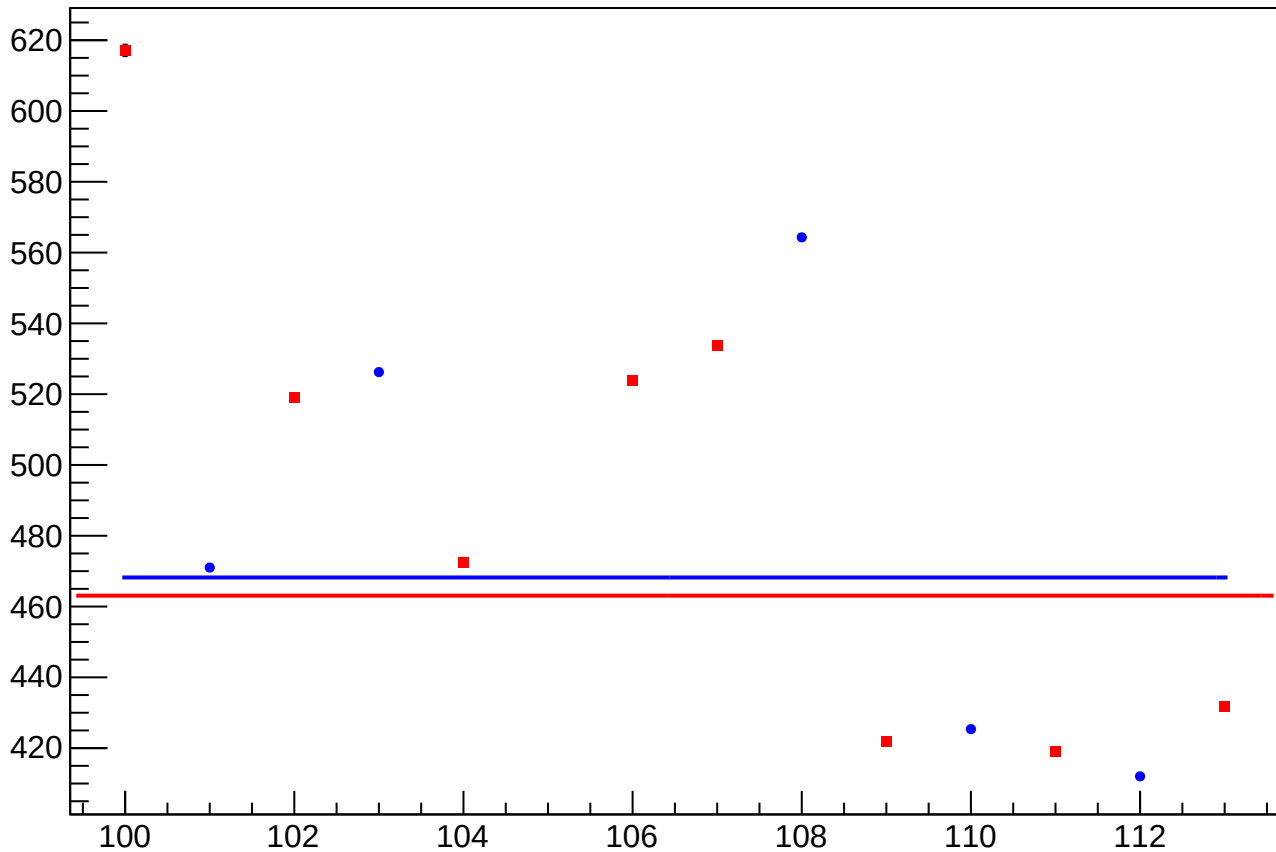
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -192.471+/-194.749  $\chi^2/\text{NDF}$ : 13.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 468.215+/-0.210  $\chi^2/\text{NDF}$ : 63701.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 463.076+/-0.183  $\chi^2/\text{NDF}$ : 66754.4/7

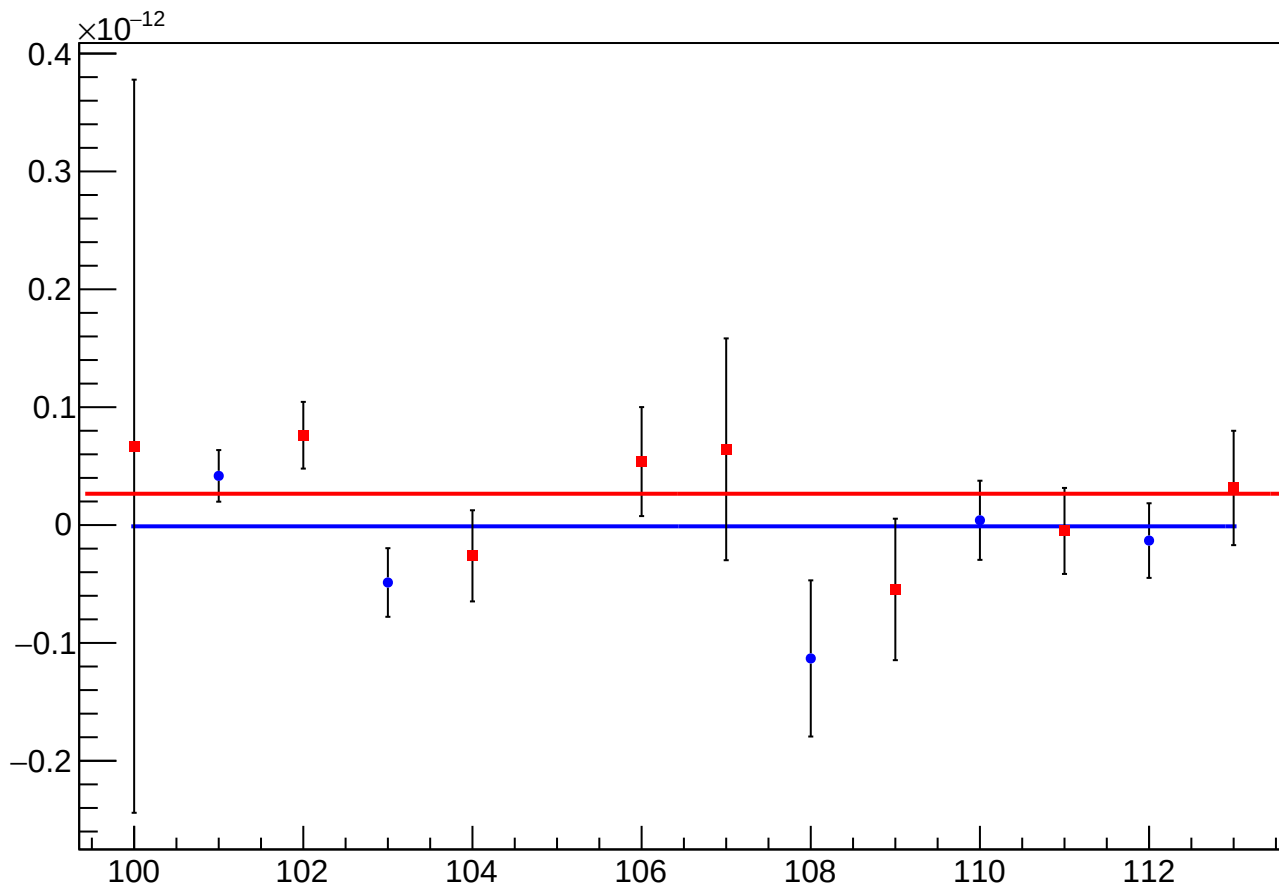
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 465.293+/-0.138  $\chi^2/\text{NDF}$ : 130798.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.0/7

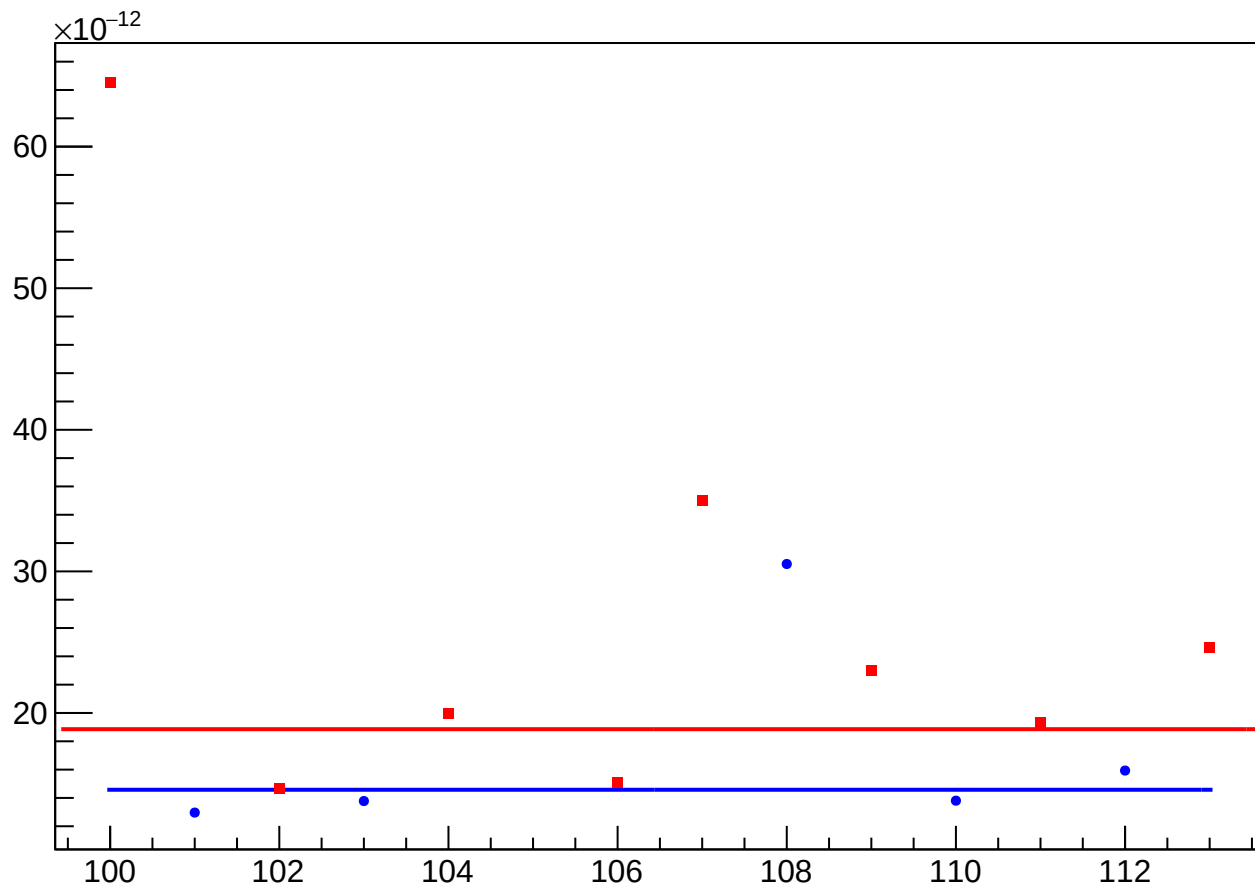
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 132929.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 199062.3/7

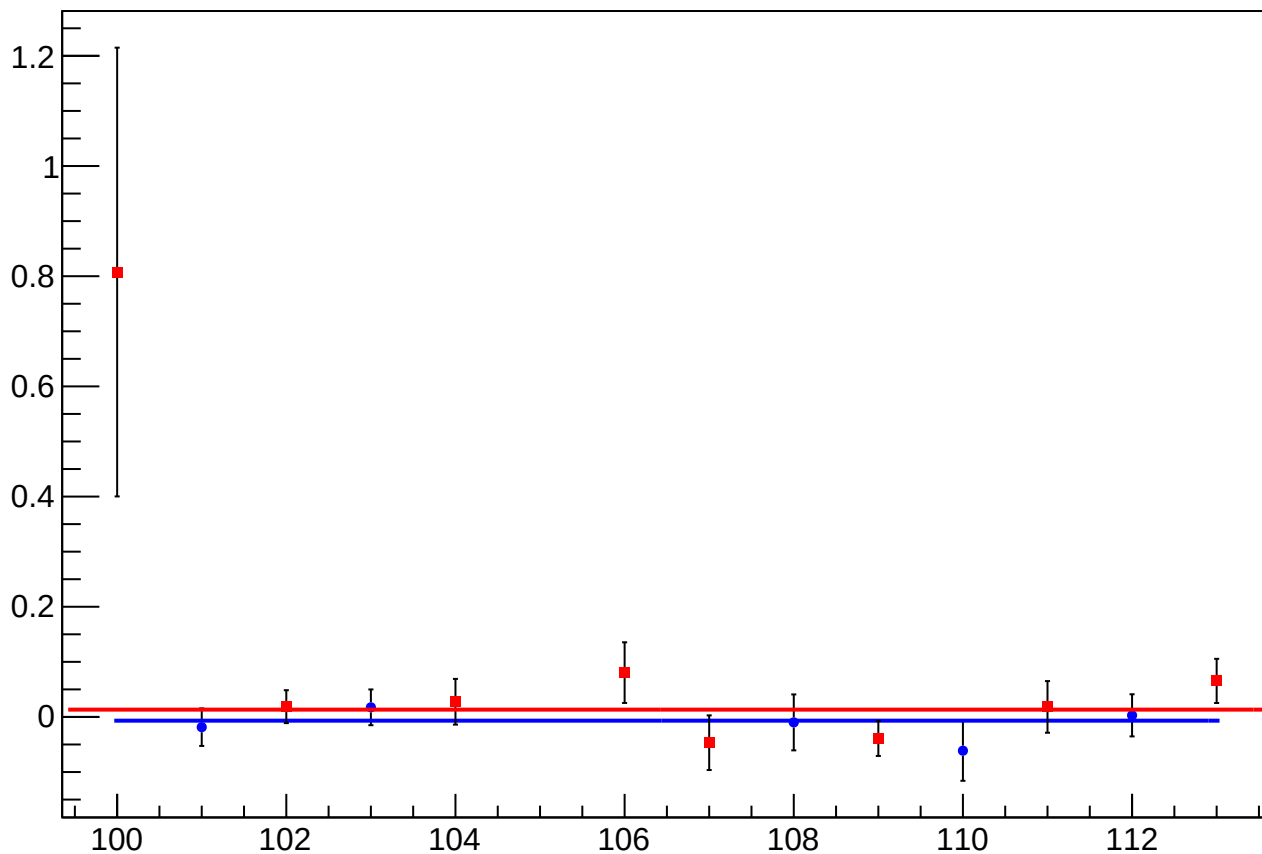
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 415514.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.007 $\pm$ 0.018  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.013 $\pm$ 0.015  $\chi^2$ /NDF: 11.3/7

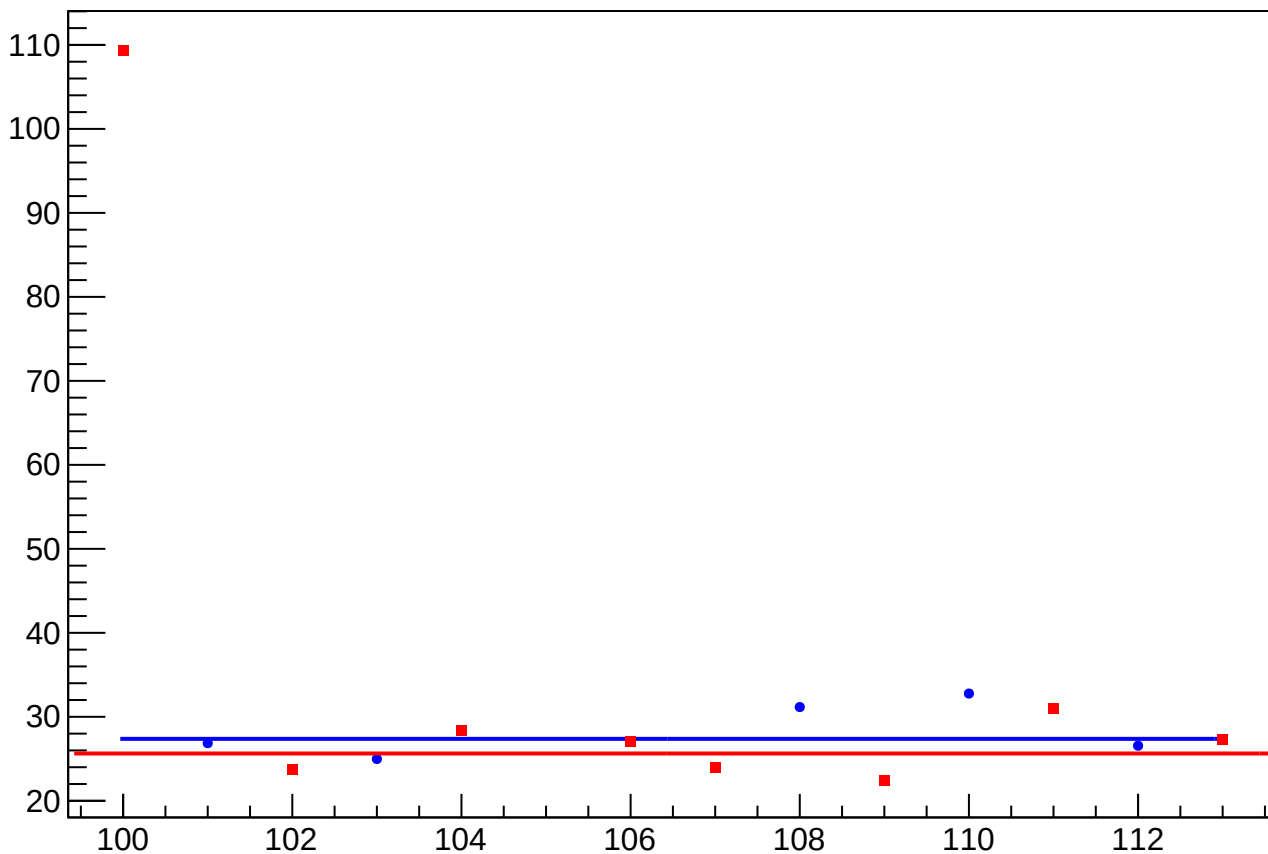
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.011  $\chi^2$ /NDF: 13.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 27.377+/-0.012  $\chi^2/\text{NDF}$ : 42862.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.634+/-0.011  $\chi^2/\text{NDF}$ : 155420.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

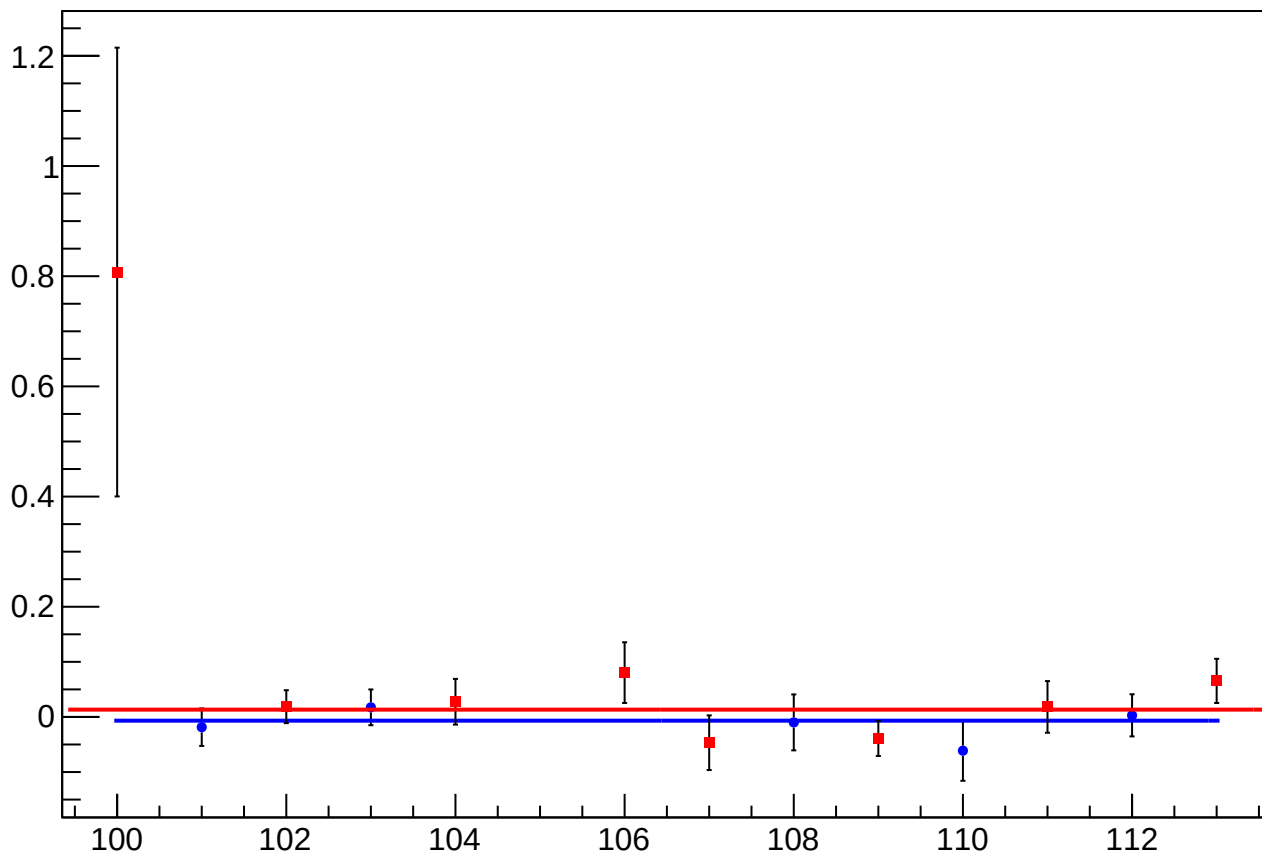
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 26.360+/-0.008  $\chi^2/\text{NDF}$ : 209687.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_2468\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.007 \pm 0.018$   $\chi^2/\text{NDF}$ : 1.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.013 \pm 0.015$   $\chi^2/\text{NDF}$ : 11.3/7

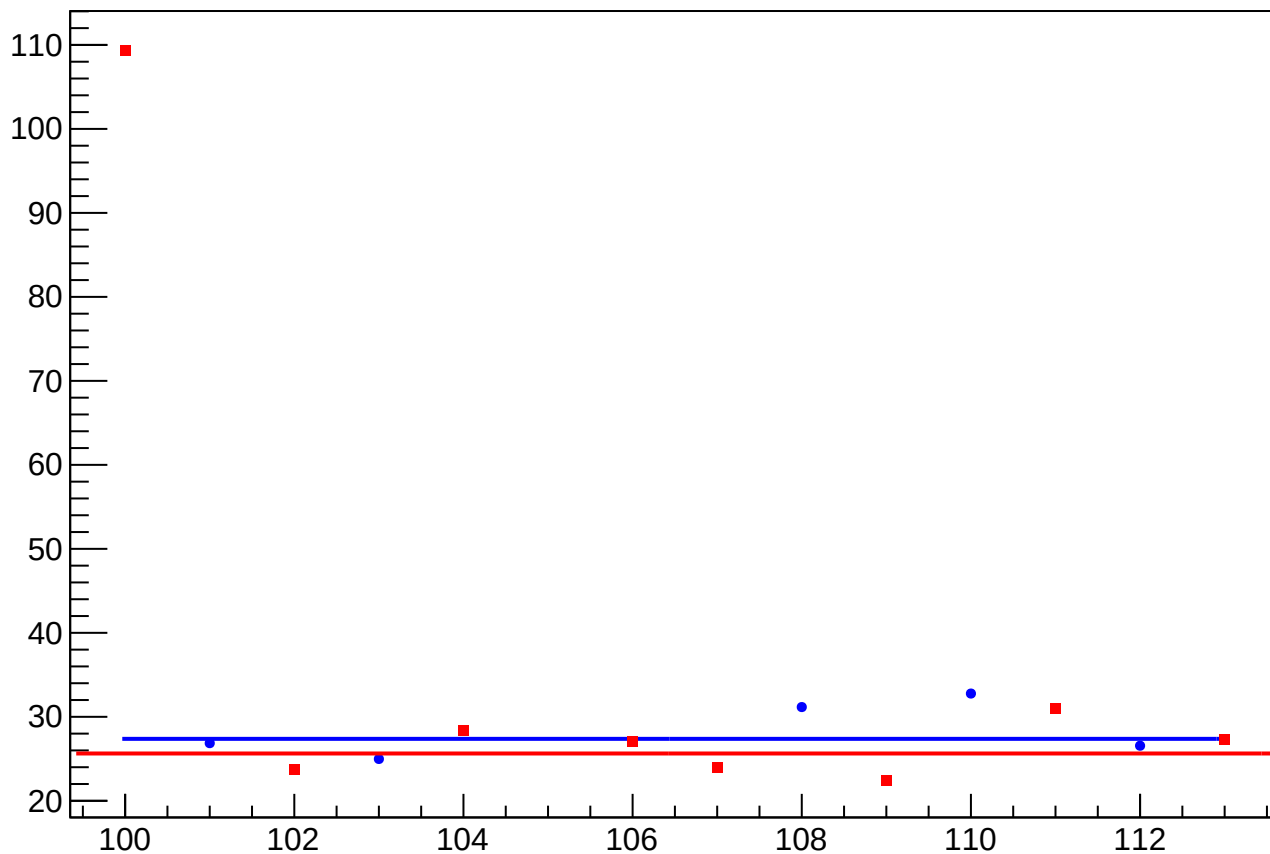
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.005 \pm 0.011$   $\chi^2/\text{NDF}$ : 13.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 27.377+/-0.012  $\chi^2/\text{NDF}$ : 42862.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.634+/-0.011  $\chi^2/\text{NDF}$ : 155420.6/7

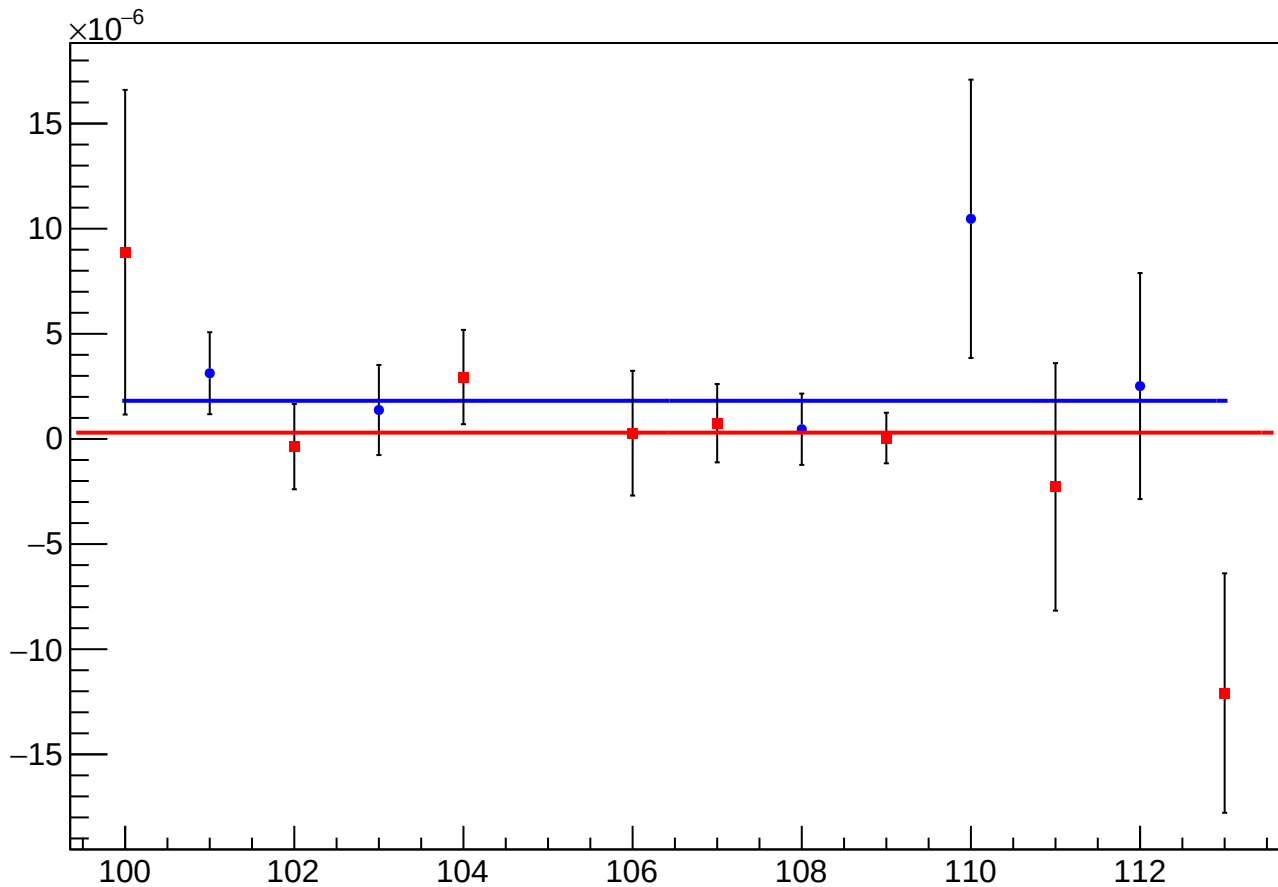
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 26.360+/-0.008  $\chi^2/\text{NDF}$ : 209687.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.8/7

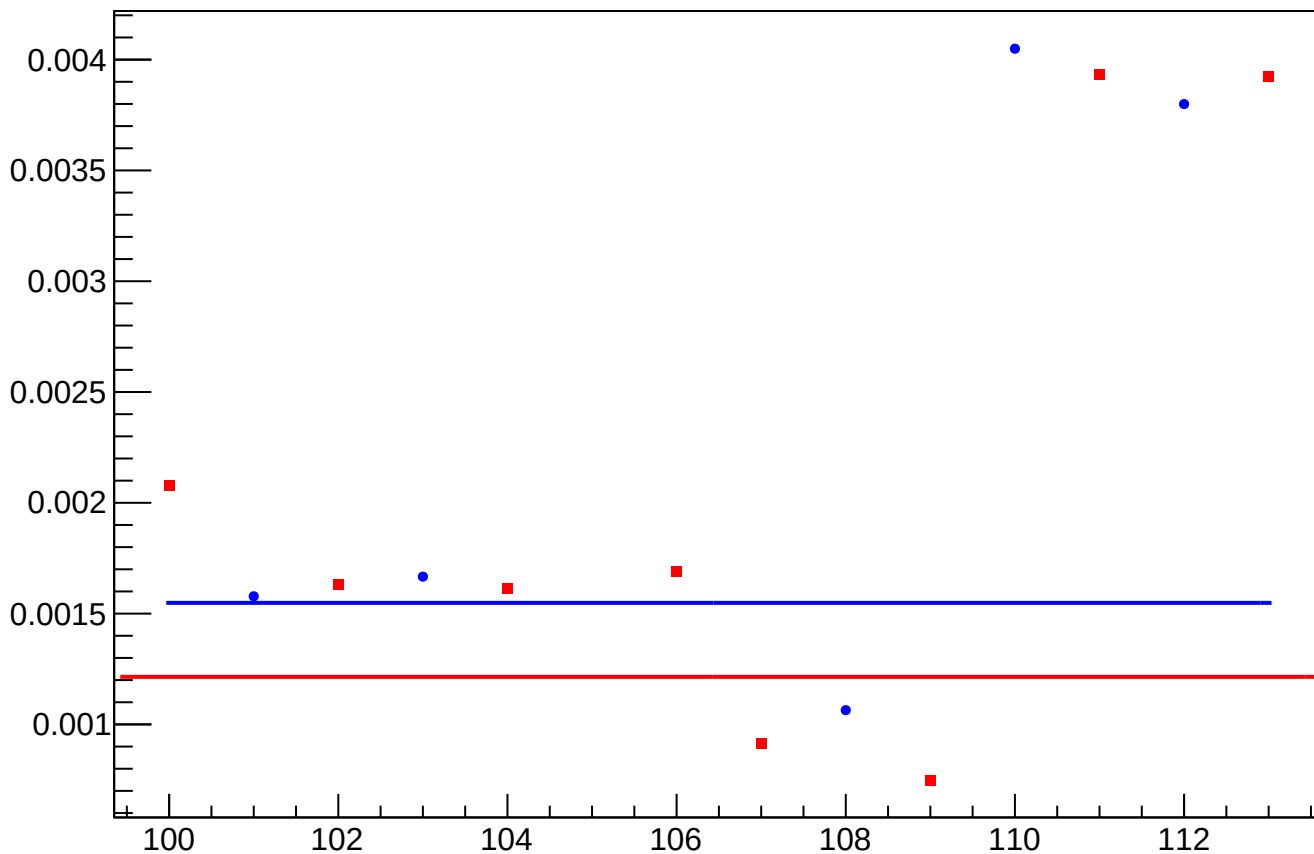
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 805823.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 1458206.4/7

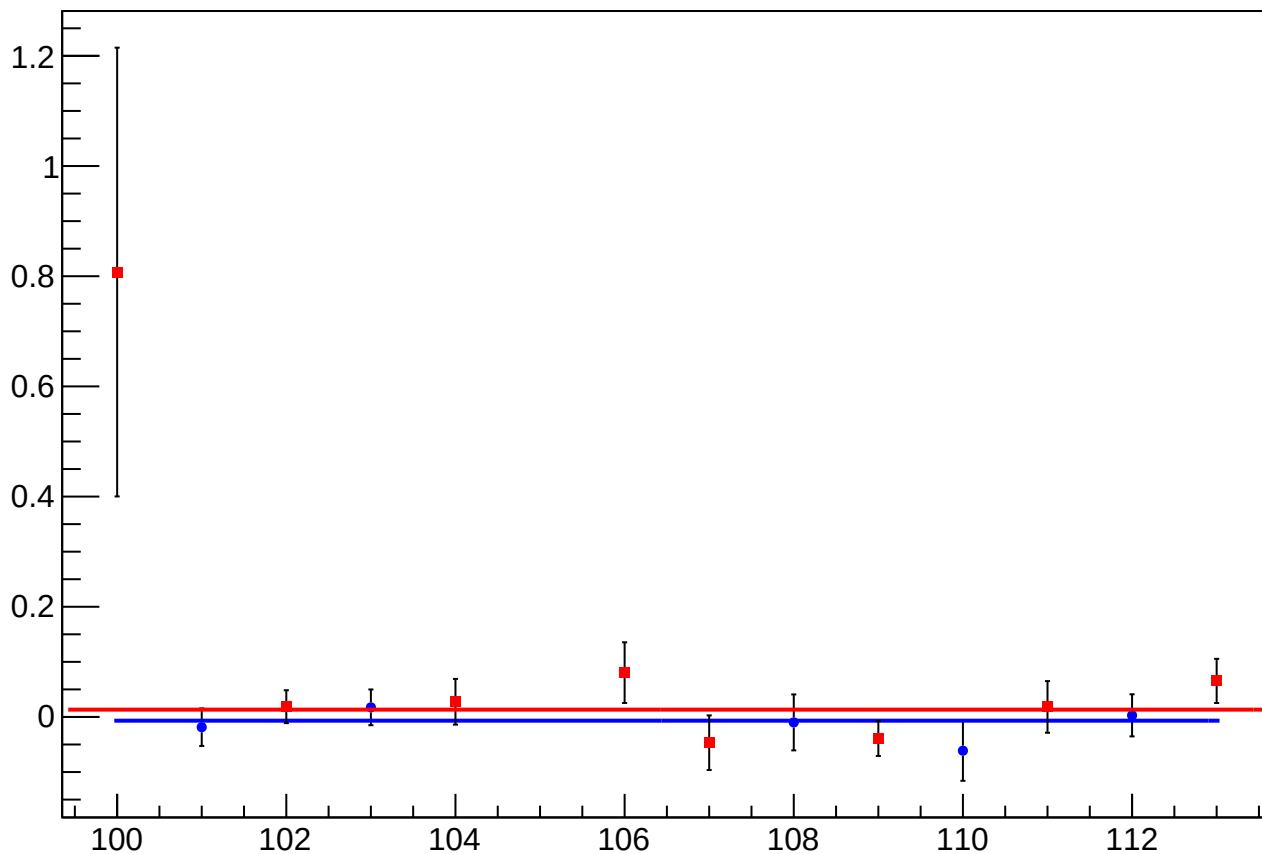
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 2391544.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.007 $\pm$ 0.018  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.013 $\pm$ 0.015  $\chi^2$ /NDF: 11.3/7

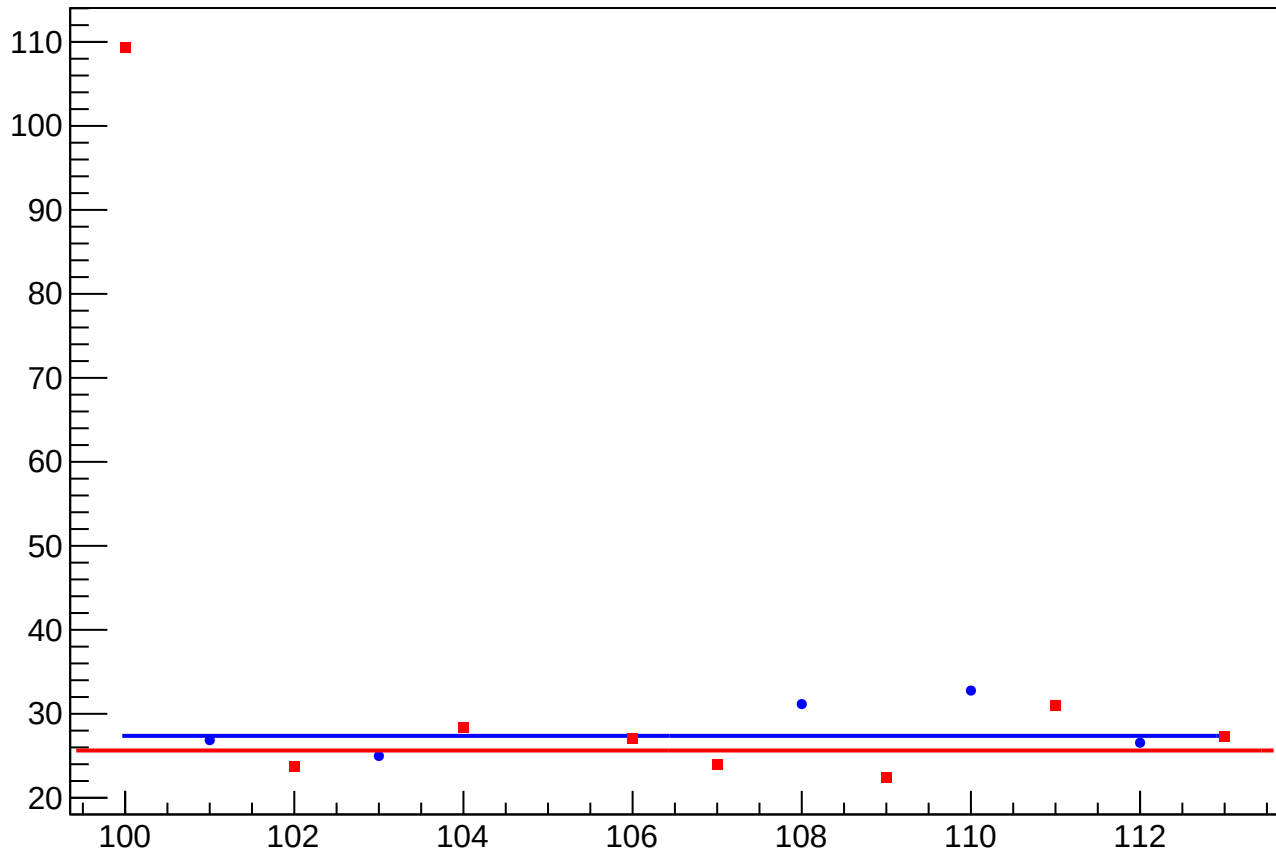
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.011  $\chi^2$ /NDF: 13.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 27.376+/-0.012  $\chi^2/\text{NDF}$ : 42855.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.633+/-0.011  $\chi^2/\text{NDF}$ : 155388.2/7

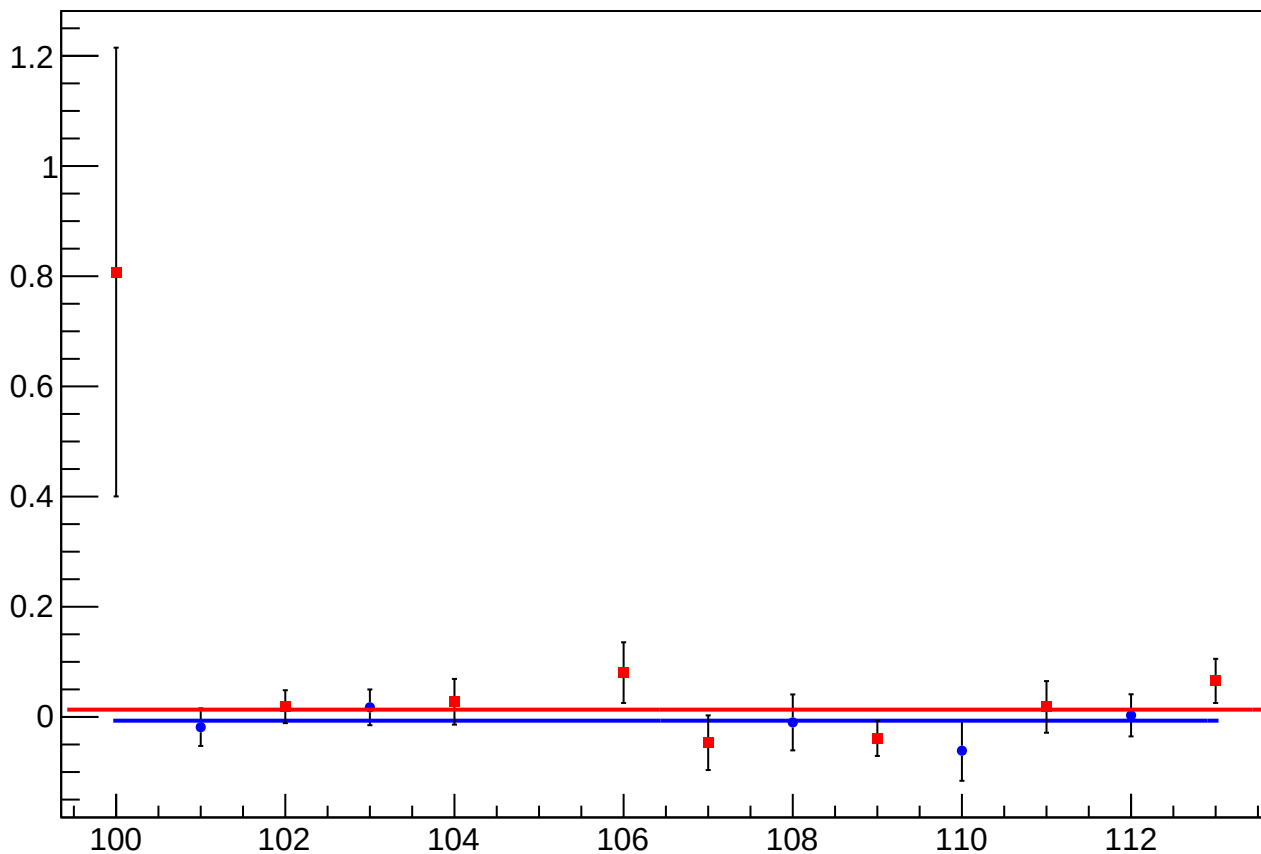
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 26.359+/-0.008  $\chi^2/\text{NDF}$ : 209649.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.007 $\pm$ 0.018  $\chi^2$ /NDF: 1.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.013 $\pm$ 0.015  $\chi^2$ /NDF: 11.3/7

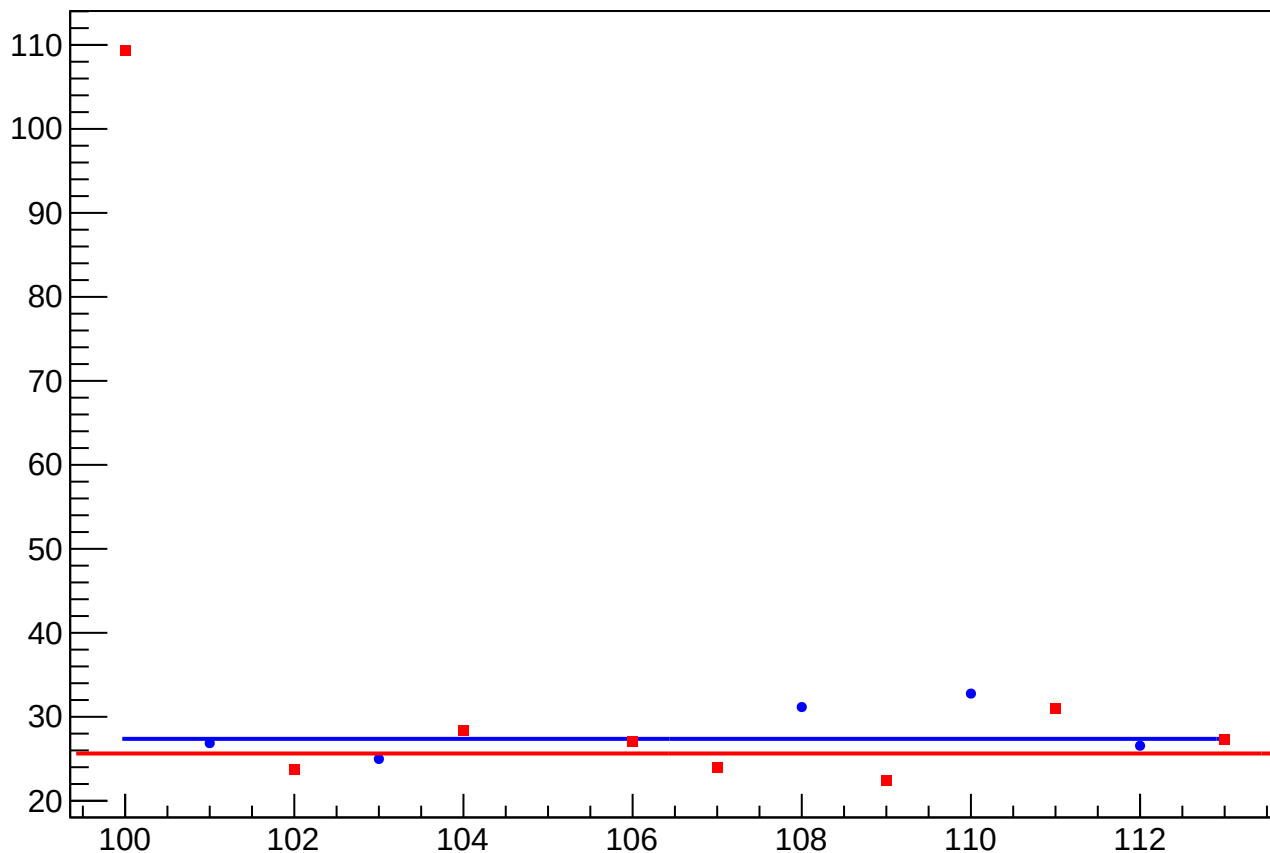
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.011  $\chi^2$ /NDF: 13.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 27.376+/-0.012  $\chi^2/\text{NDF}$ : 42855.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.633+/-0.011  $\chi^2/\text{NDF}$ : 155388.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

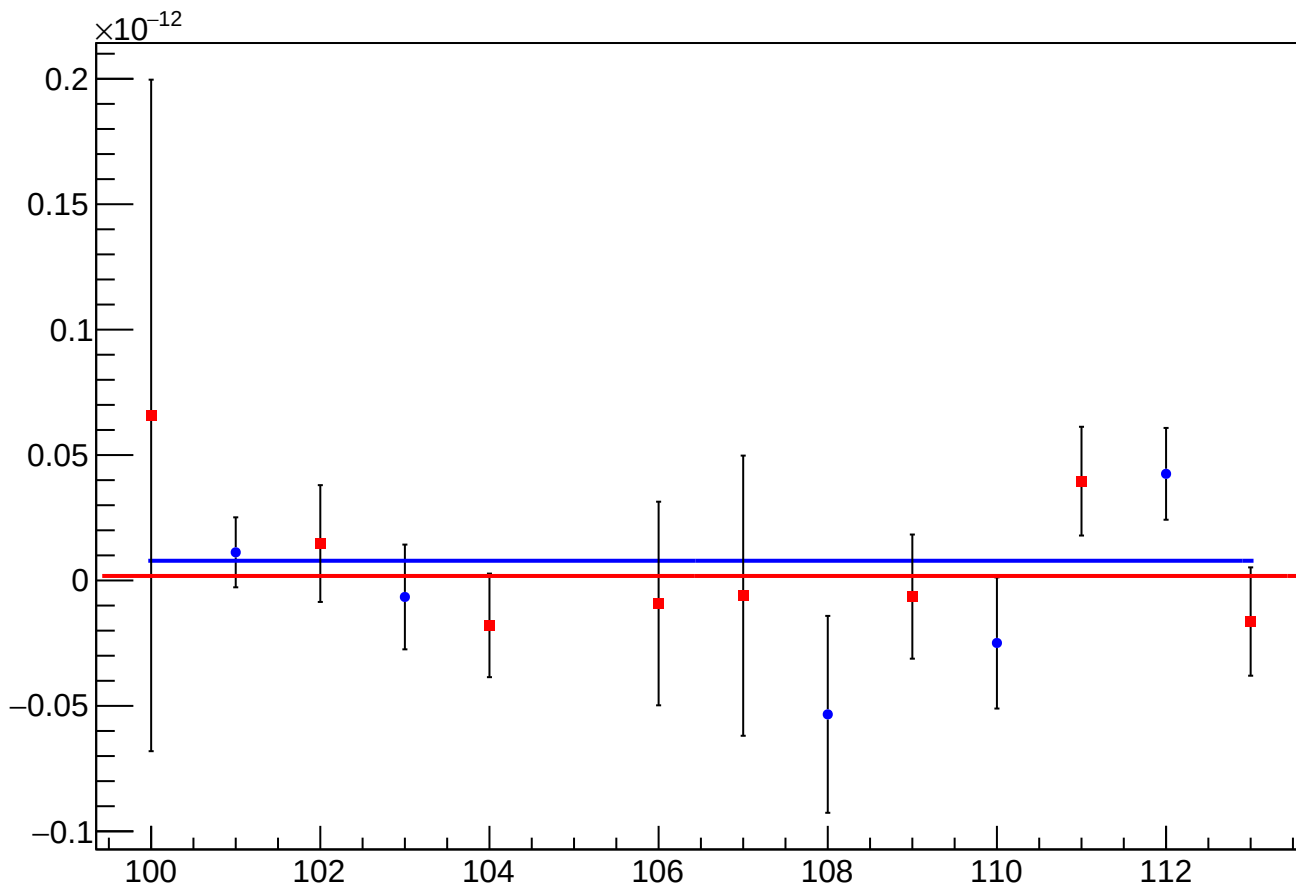
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 26.359+/-0.008  $\chi^2/\text{NDF}$ : 209649.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_2468\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.4/7

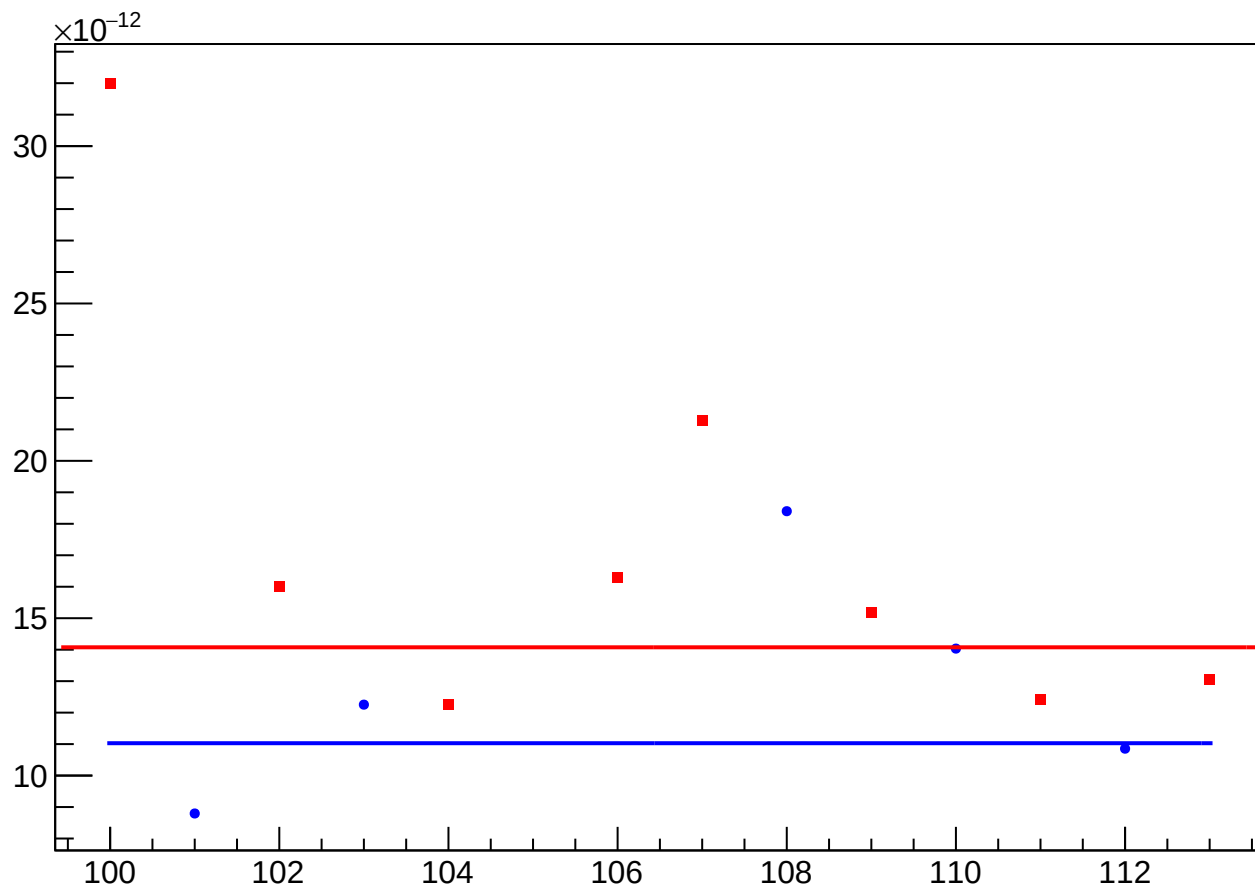
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 155310.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 124721.4/7

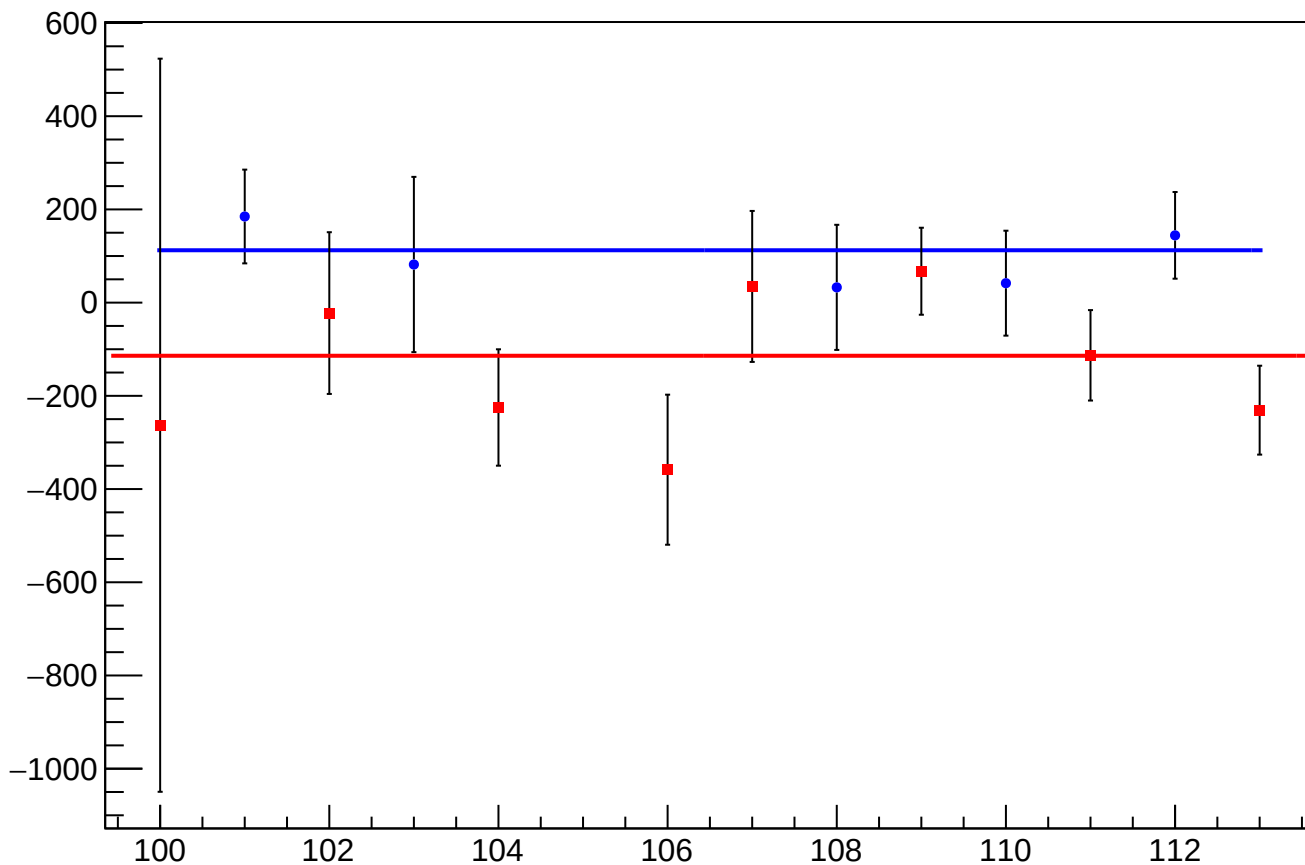
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 389223.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 112.367 $\pm$ 51.490  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -114.002 $\pm$ -44.429  $\chi^2$ /NDF: 9.5/7

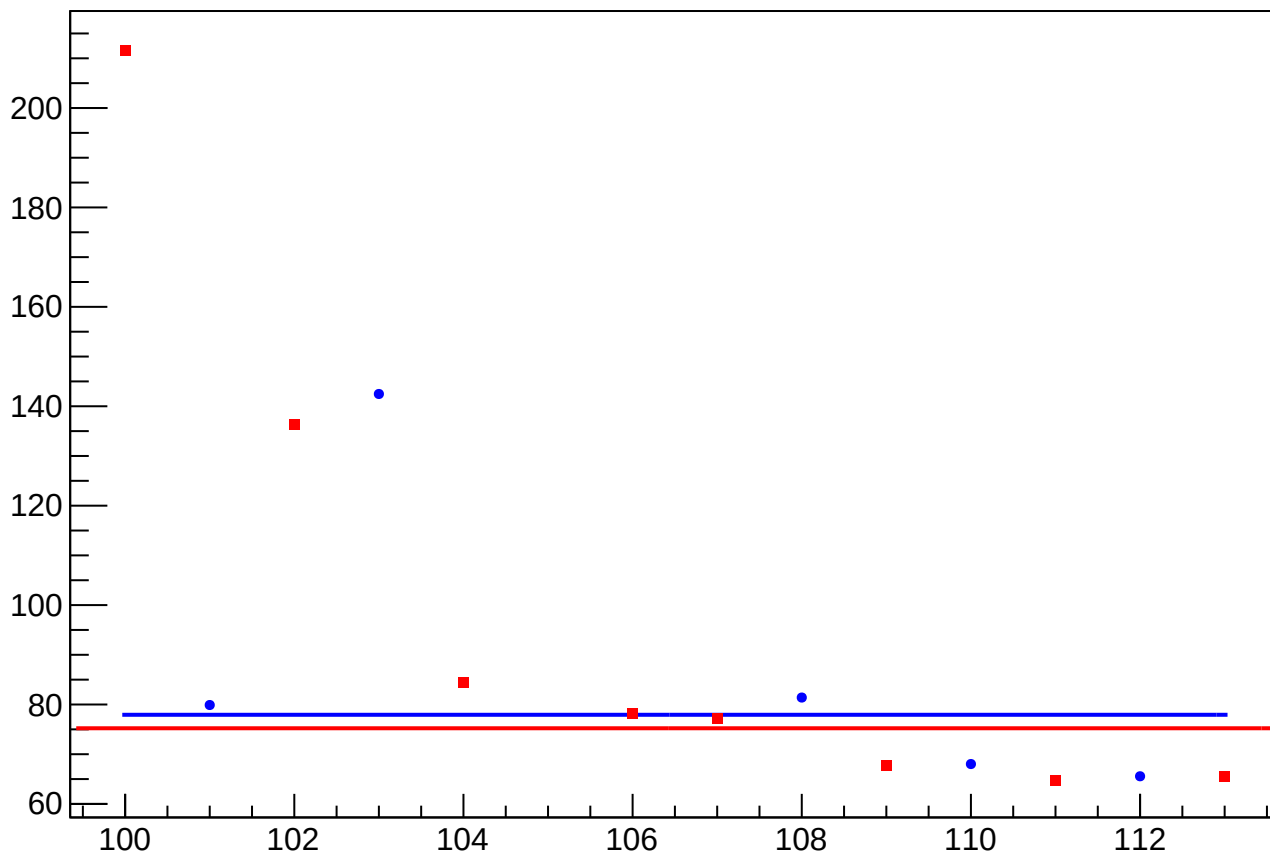
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -17.393 $\pm$ -33.638  $\chi^2$ /NDF: 22.0/12

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 77.932 $\pm$ 0.036  $\chi^2$ /NDF: 288576.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 75.220 $\pm$ 0.031  $\chi^2$ /NDF: 377351.0/7

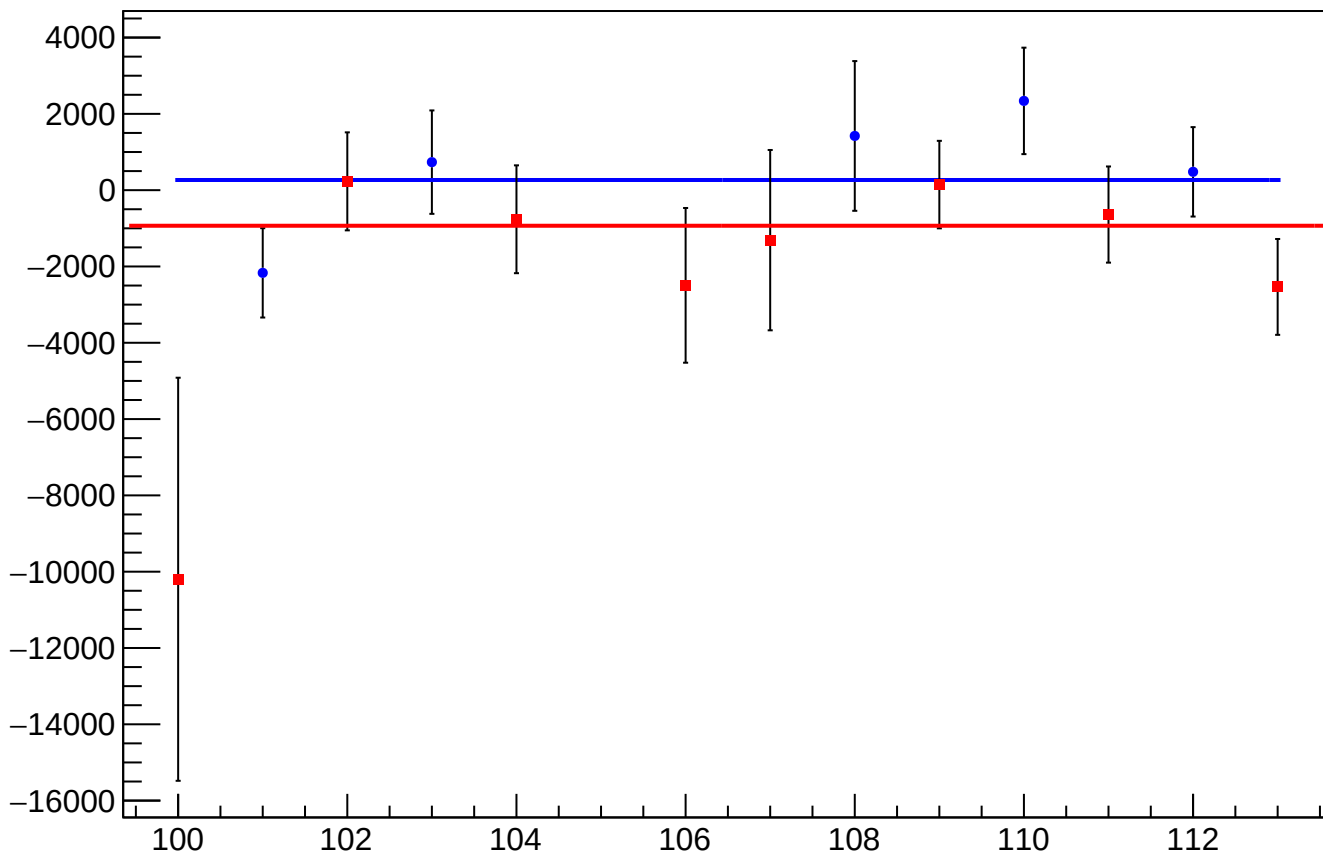
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 76.377 $\pm$ 0.024  $\chi^2$ /NDF: 669108.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_reg\_correction\_mean vs Slug



Right In: 266.560 $\pm$ 600.196  $\chi^2$ /NDF: 7.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -932.582 $\pm$ 527.871  $\chi^2$ /NDF: 7.1/7

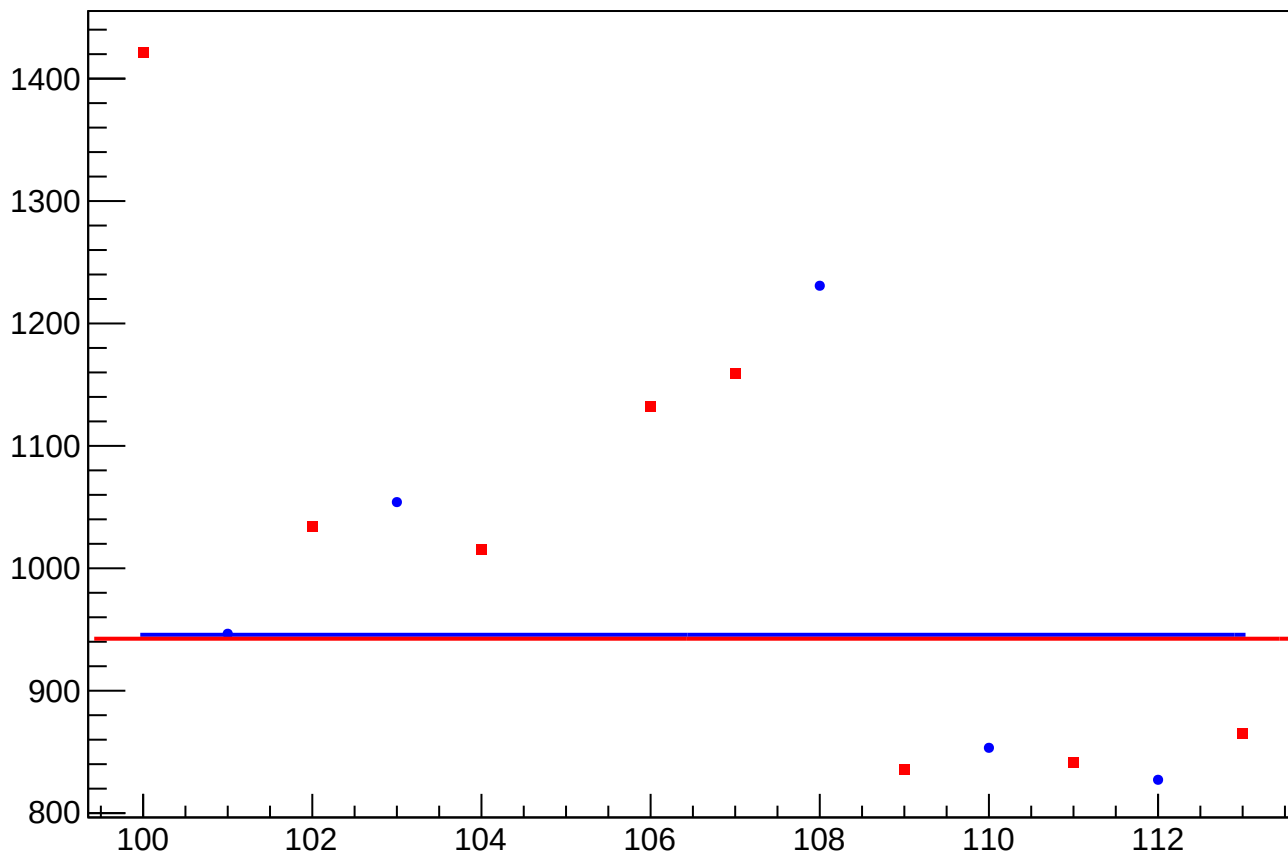
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -409.579 $\pm$ 396.379  $\chi^2$ /NDF: 16.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_reg\_correction\_rms vs Slug



Right In: 945.691 $\pm$ 0.424  $\chi^2$ /NDF: 84222.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 942.486 $\pm$ 0.373  $\chi^2$ /NDF: 104130.4/7

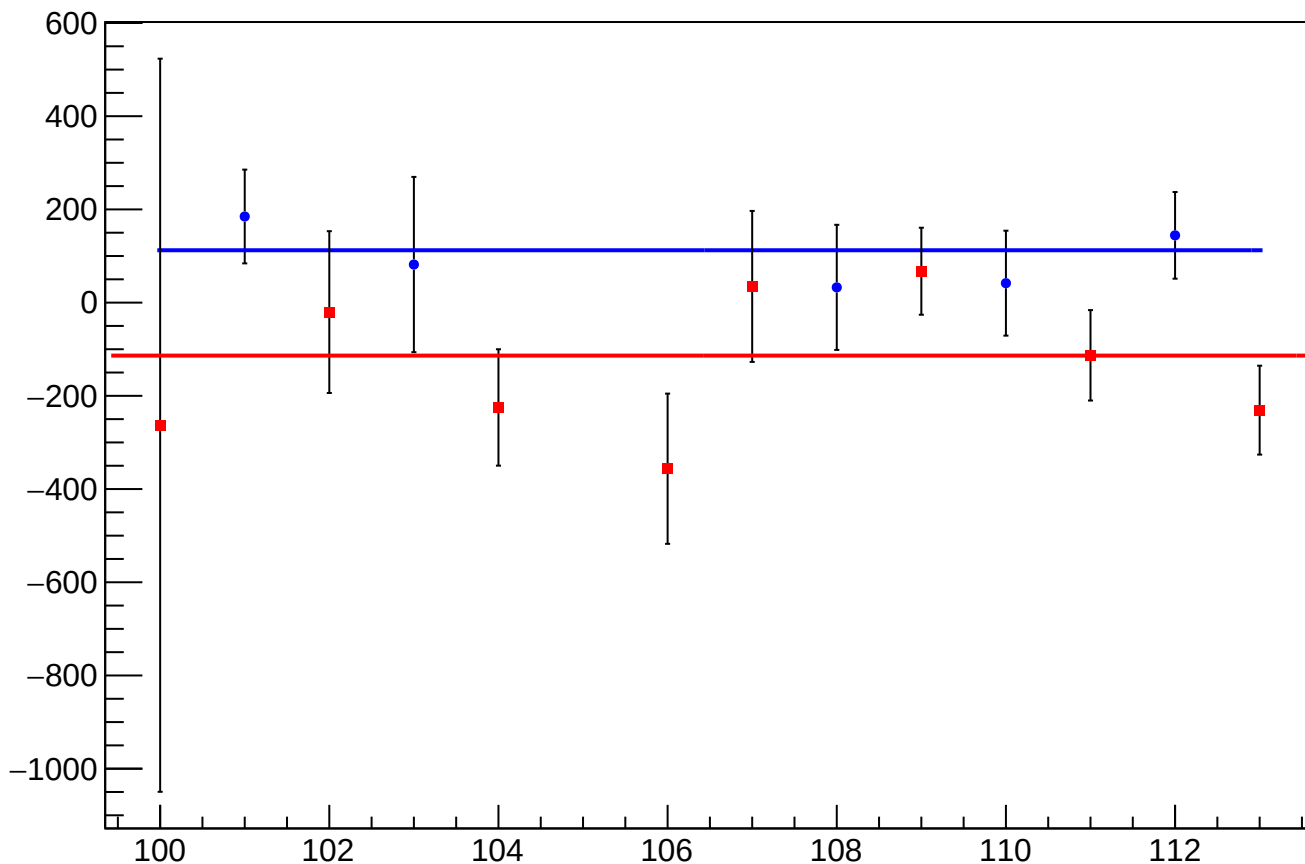
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 943.884 $\pm$ 0.280  $\chi^2$ /NDF: 188385.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 112.357 $\pm$ 51.490  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -113.668 $\pm$ 44.434  $\chi^2$ /NDF: 9.5/7

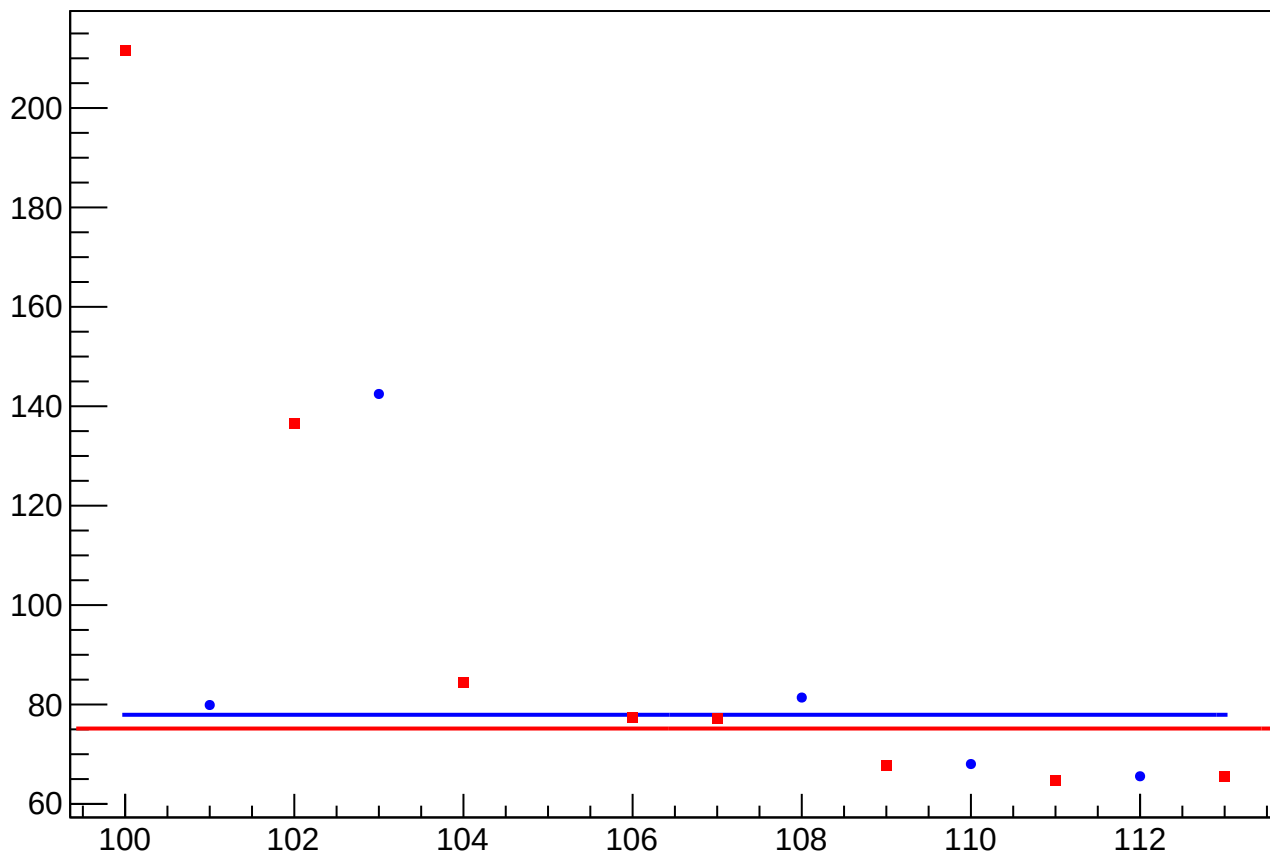
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.193 $\pm$ 33.640  $\chi^2$ /NDF: 21.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 77.932+/-0.036  $\chi^2/\text{NDF}$ : 288579.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 75.167+/-0.031  $\chi^2/\text{NDF}$ : 377346.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

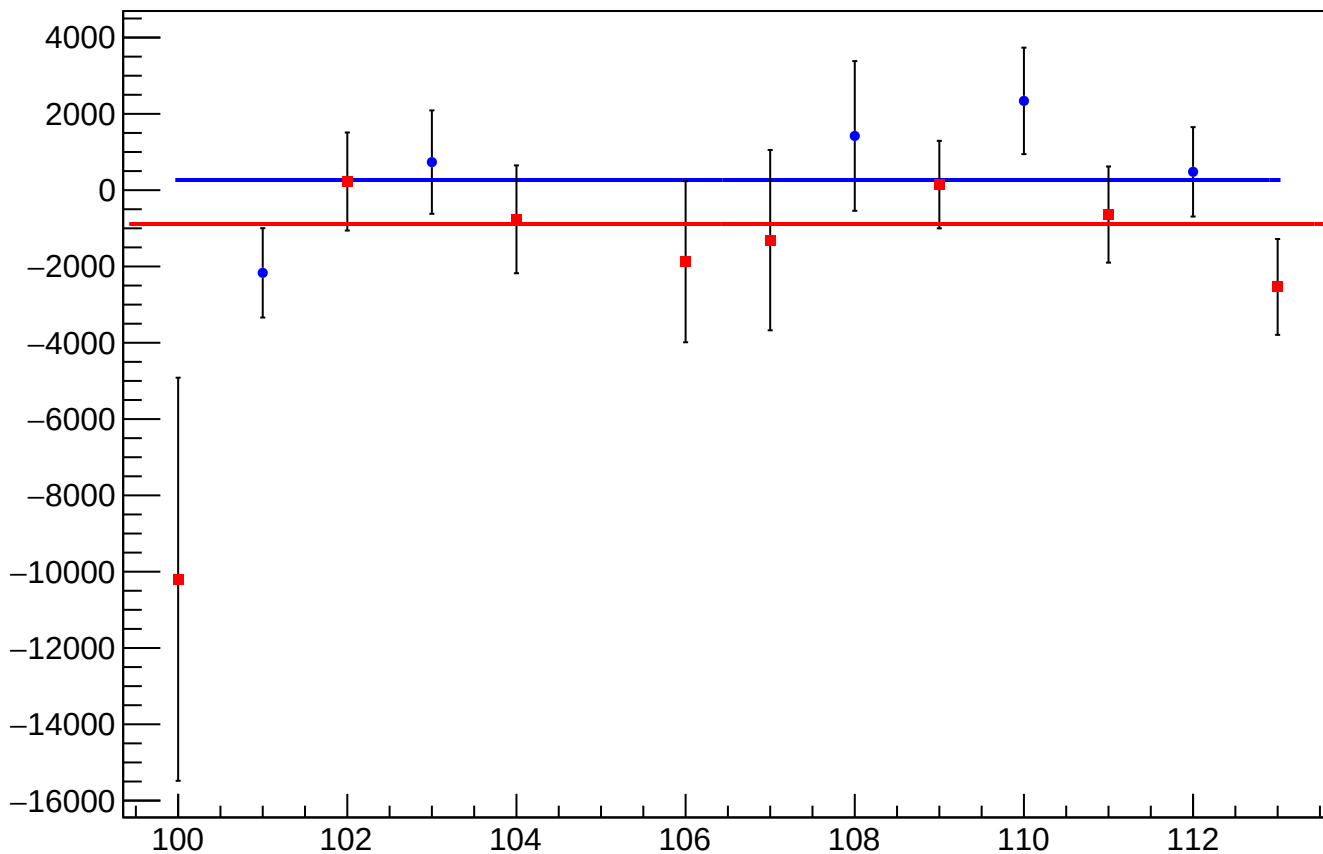
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 76.347+/-0.024  $\chi^2/\text{NDF}$ : 669232.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_12345678\_avg\_cor\_correction\_mean vs Slug



Right In: 266.655 $\pm$ 600.206  $\chi^2$ /NDF: 7.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -886.532 $\pm$ 529.331  $\chi^2$ /NDF: 6.7/7

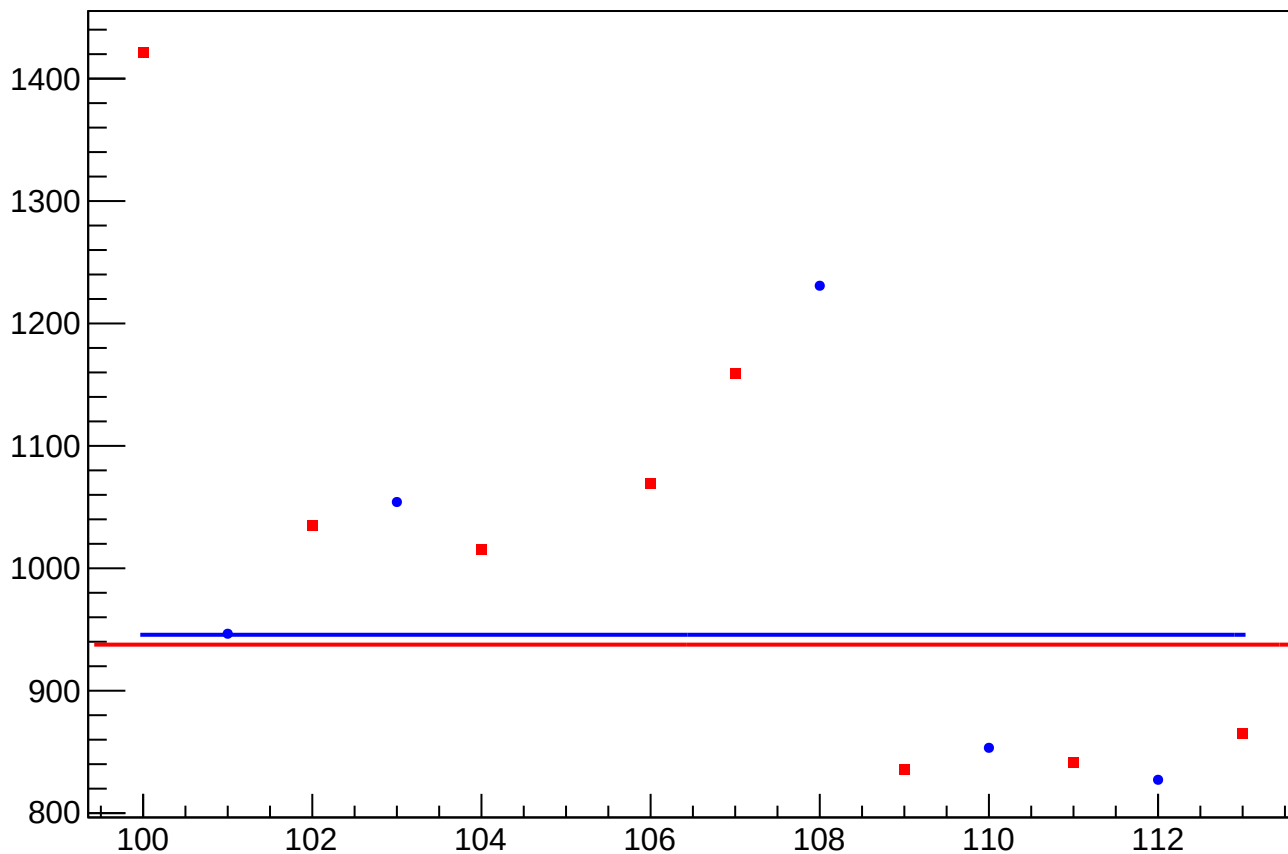
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -382.014 $\pm$ 396.998  $\chi^2$ /NDF: 15.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_cor\_correction\_rms vs Slug



Right In: 945.704 $\pm$ 0.424  $\chi^2$ /NDF: 84239.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 937.649 $\pm$ 0.374  $\chi^2$ /NDF: 93861.3/7

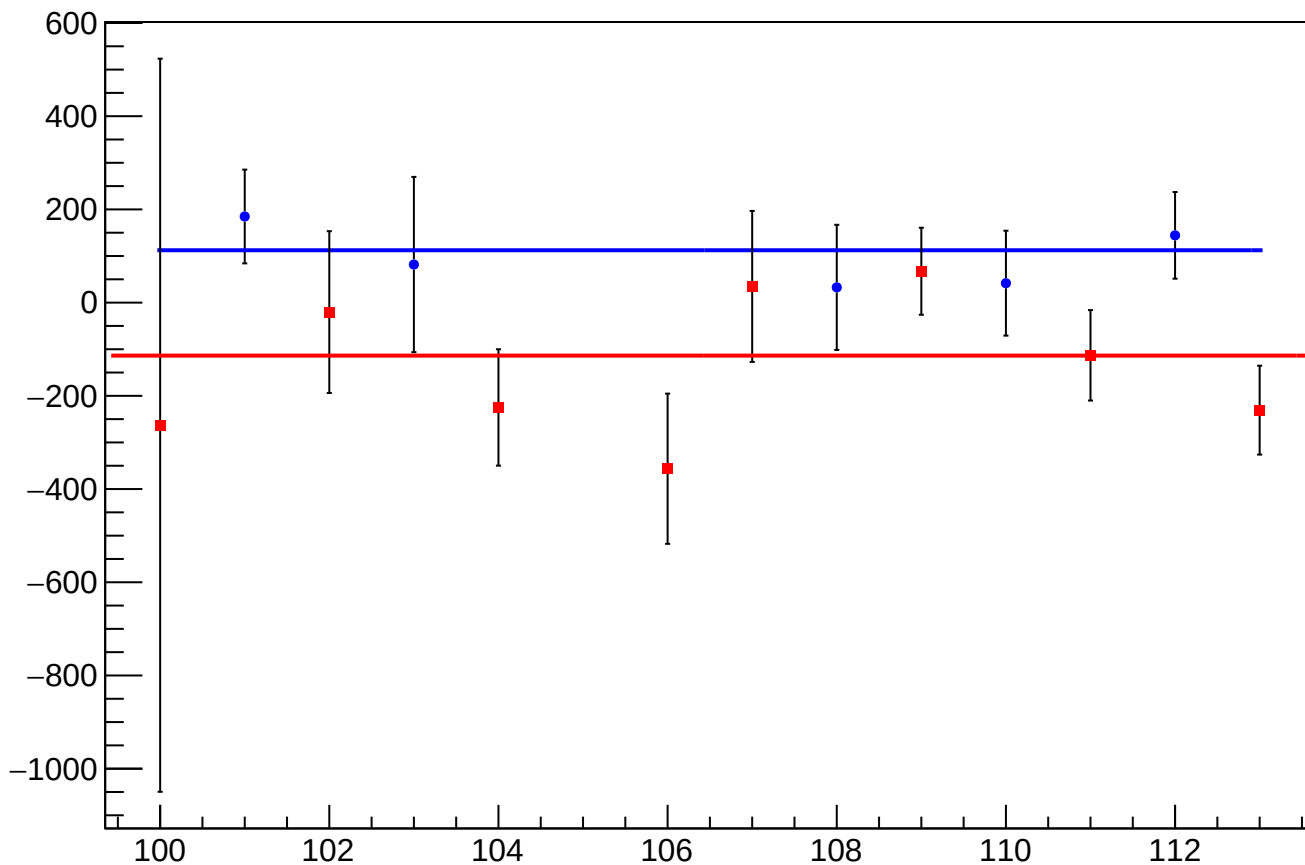
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 941.173 $\pm$ 0.281  $\chi^2$ /NDF: 178303.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 112.357 $\pm$ 51.490  $\chi^2$ /NDF: 1.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -113.668 $\pm$ 44.434  $\chi^2$ /NDF: 9.5/7

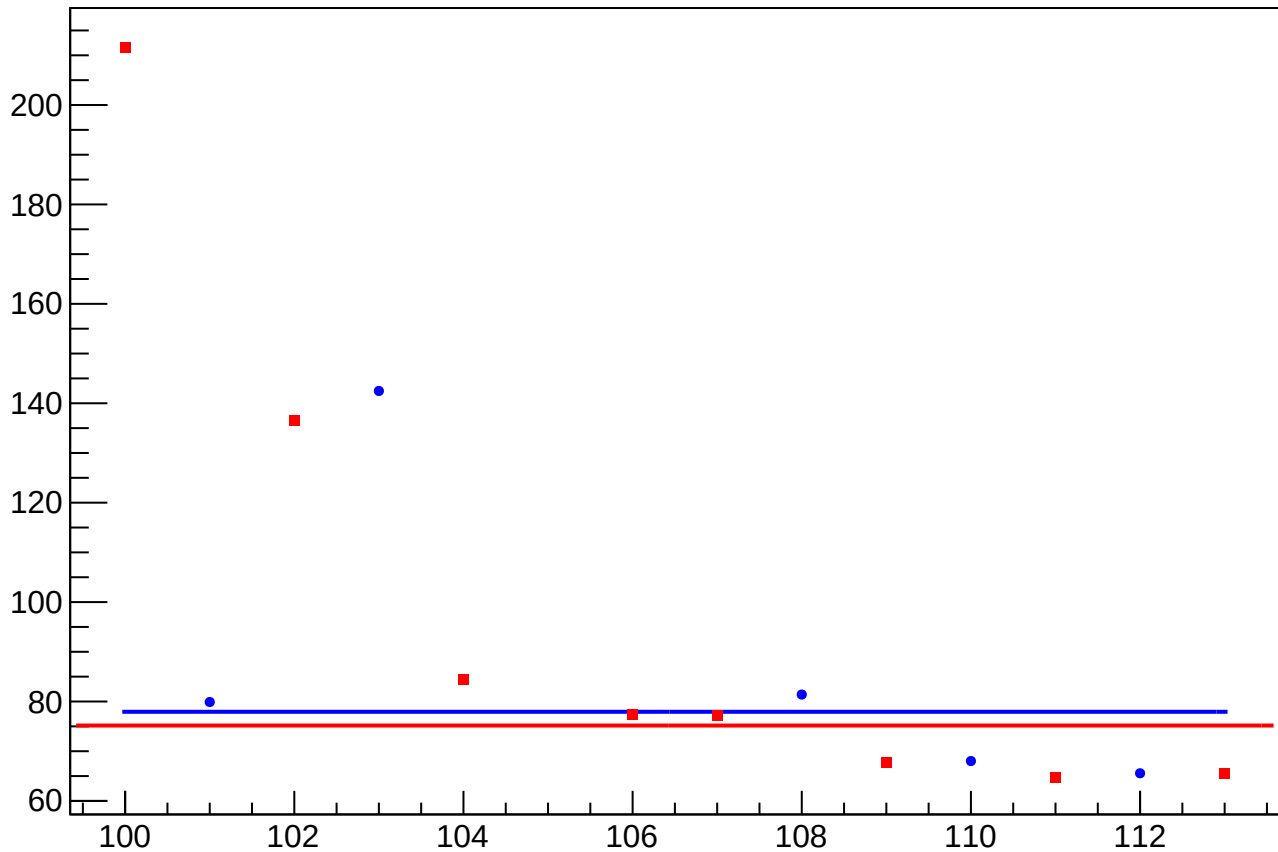
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.193 $\pm$ 33.640  $\chi^2$ /NDF: 21.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 77.932+/-0.036  $\chi^2/\text{NDF}$ : 288579.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 75.167+/-0.031  $\chi^2/\text{NDF}$ : 377346.6/7

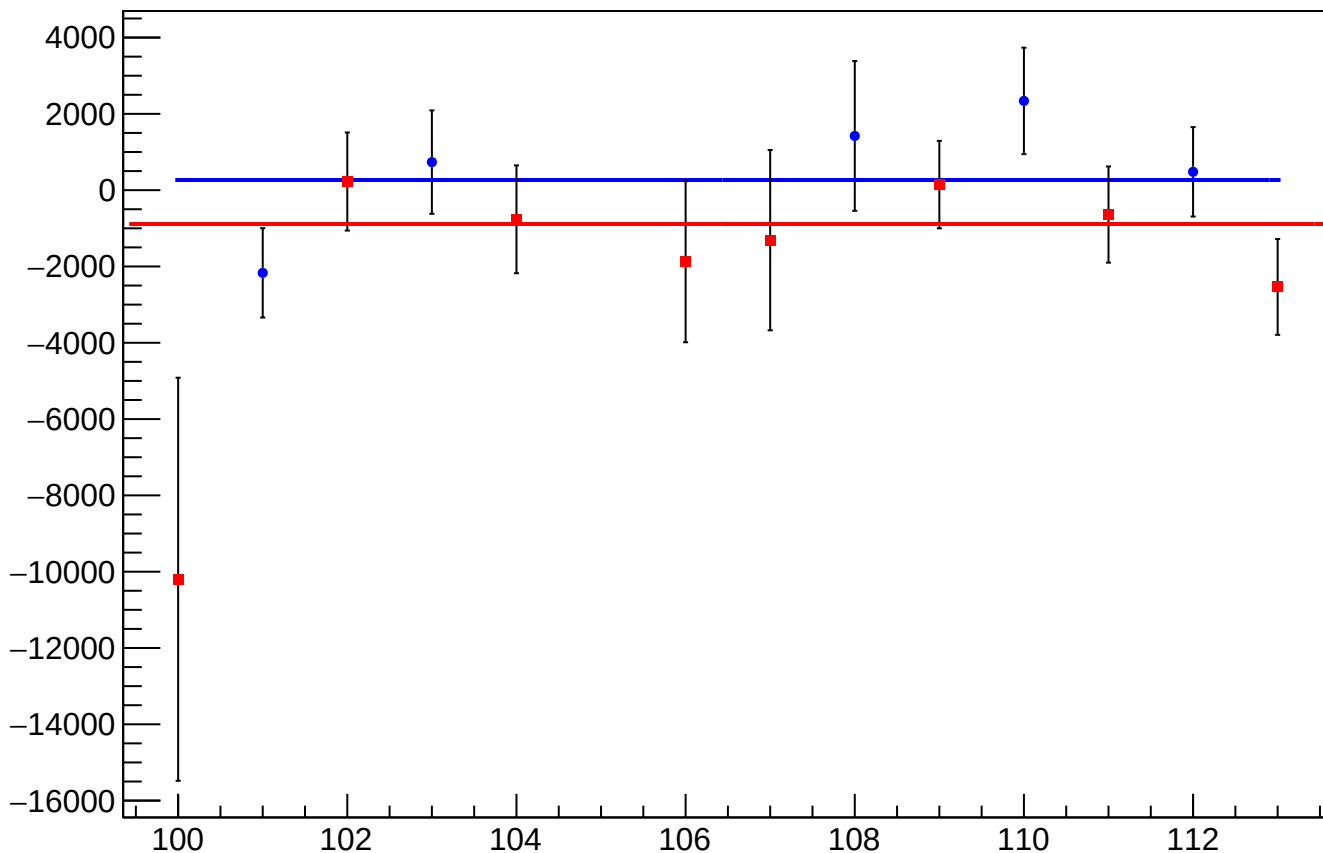
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 76.347+/-0.024  $\chi^2/\text{NDF}$ : 669232.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 266.655 $\pm$ 600.206  $\chi^2$ /NDF: 7.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -886.532 $\pm$ 529.331  $\chi^2$ /NDF: 6.7/7

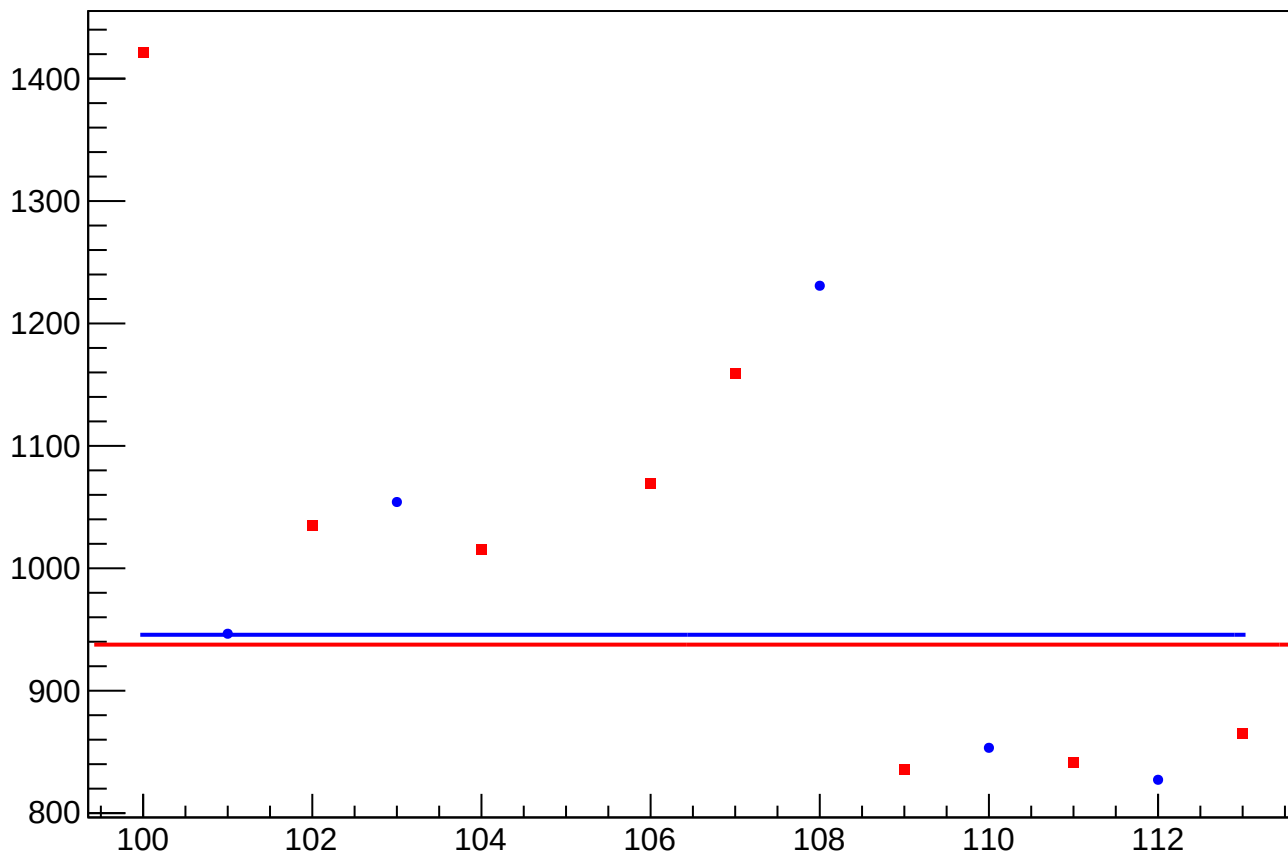
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -382.014 $\pm$ 396.998  $\chi^2$ /NDF: 15.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 945.704 $\pm$ 0.424  $\chi^2$ /NDF: 84239.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 937.649 $\pm$ 0.374  $\chi^2$ /NDF: 93861.3/7

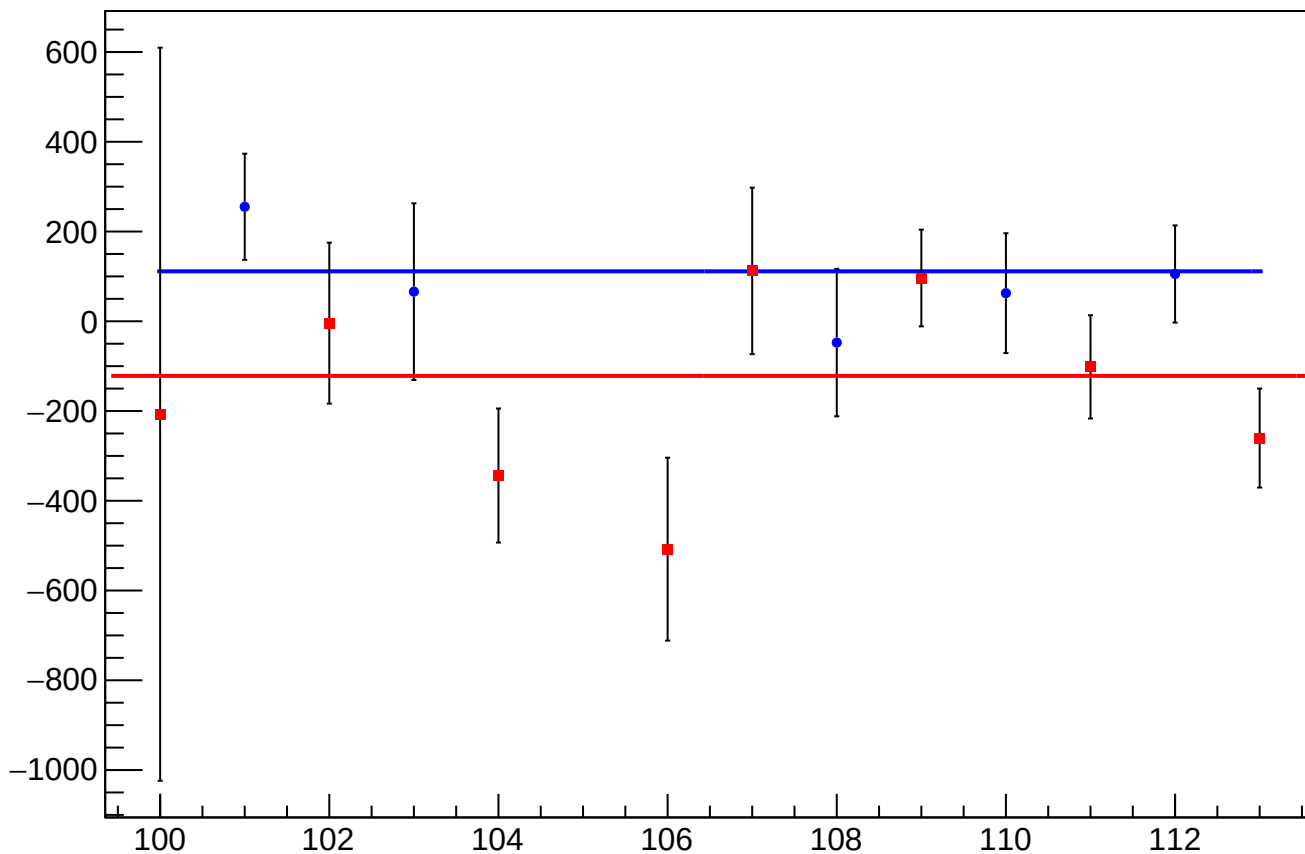
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 941.173 $\pm$ 0.281  $\chi^2$ /NDF: 178303.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 111.294 $\pm$ 60.219  $\chi^2$ /NDF: 2.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -121.698 $\pm$ 51.680  $\chi^2$ /NDF: 13.5/7

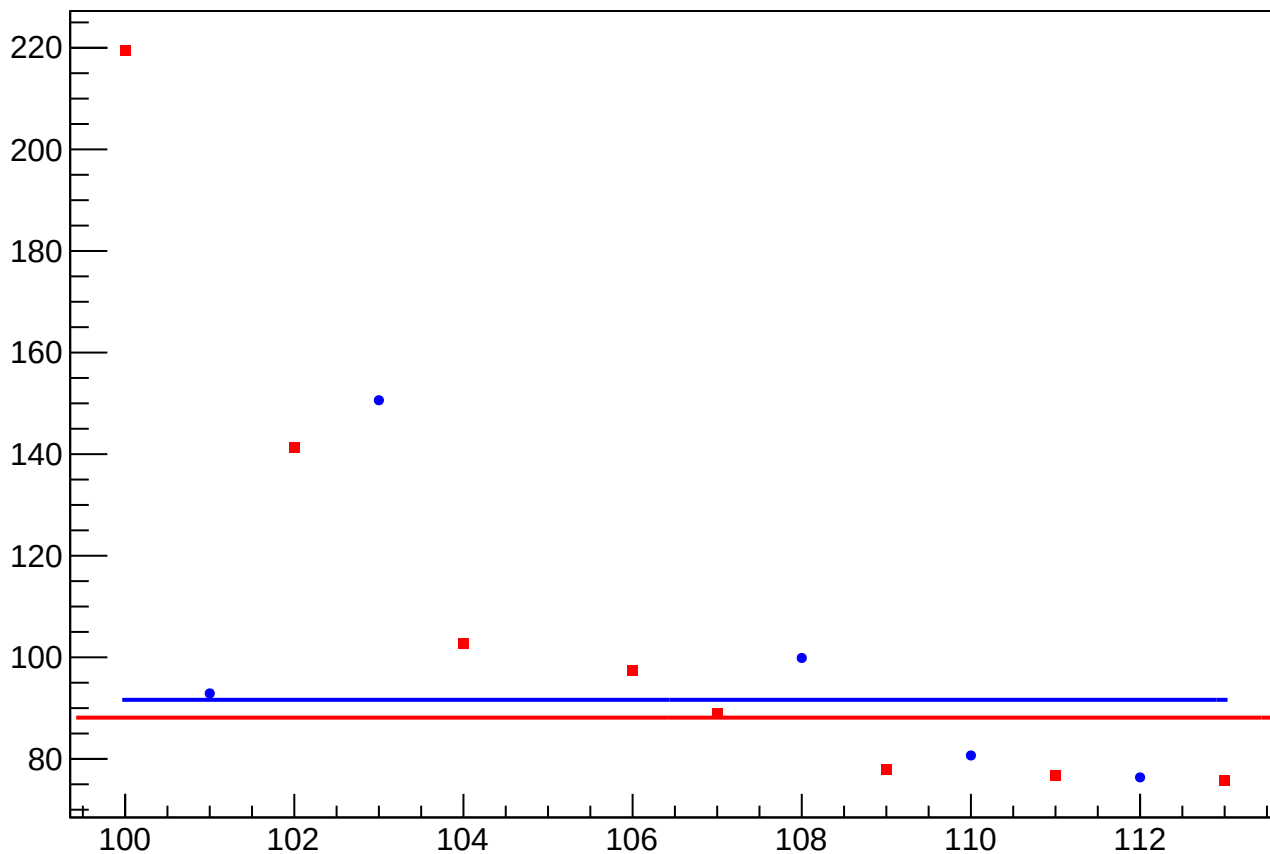
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -22.880 $\pm$ 39.218  $\chi^2$ /NDF: 24.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 91.634 $\pm$ 0.043  $\chi^2$ /NDF: 238126.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 88.129 $\pm$ 0.037  $\chi^2$ /NDF: 313212.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

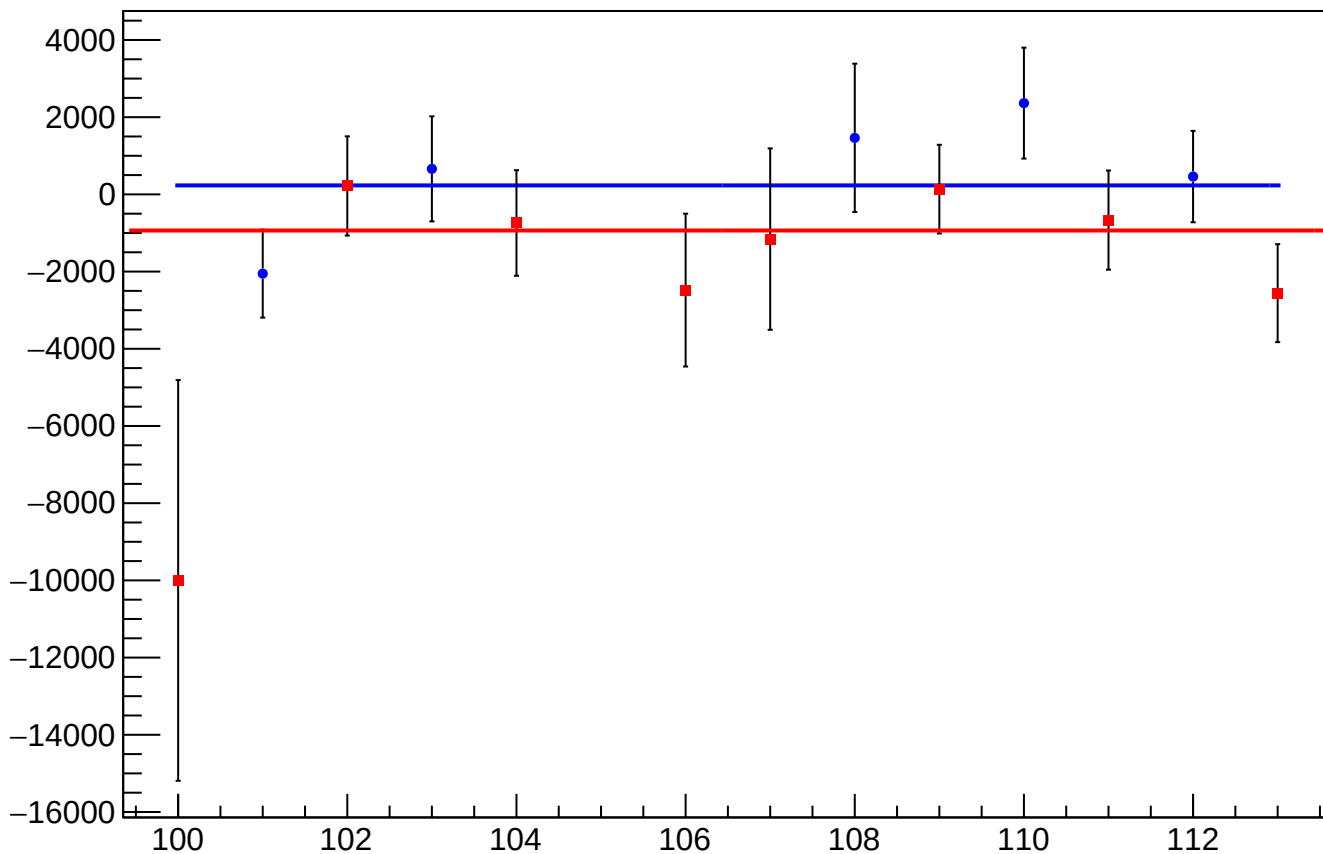
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.615 $\pm$ 0.028  $\chi^2$ /NDF: 555242.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_12345678\_avg\_dit\_correction\_mean vs Slug



Right In: 232.376+/-599.841  $\chi^2/\text{NDF}$ : 6.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -935.433+/-527.207  $\chi^2/\text{NDF}$ : 7.0/7

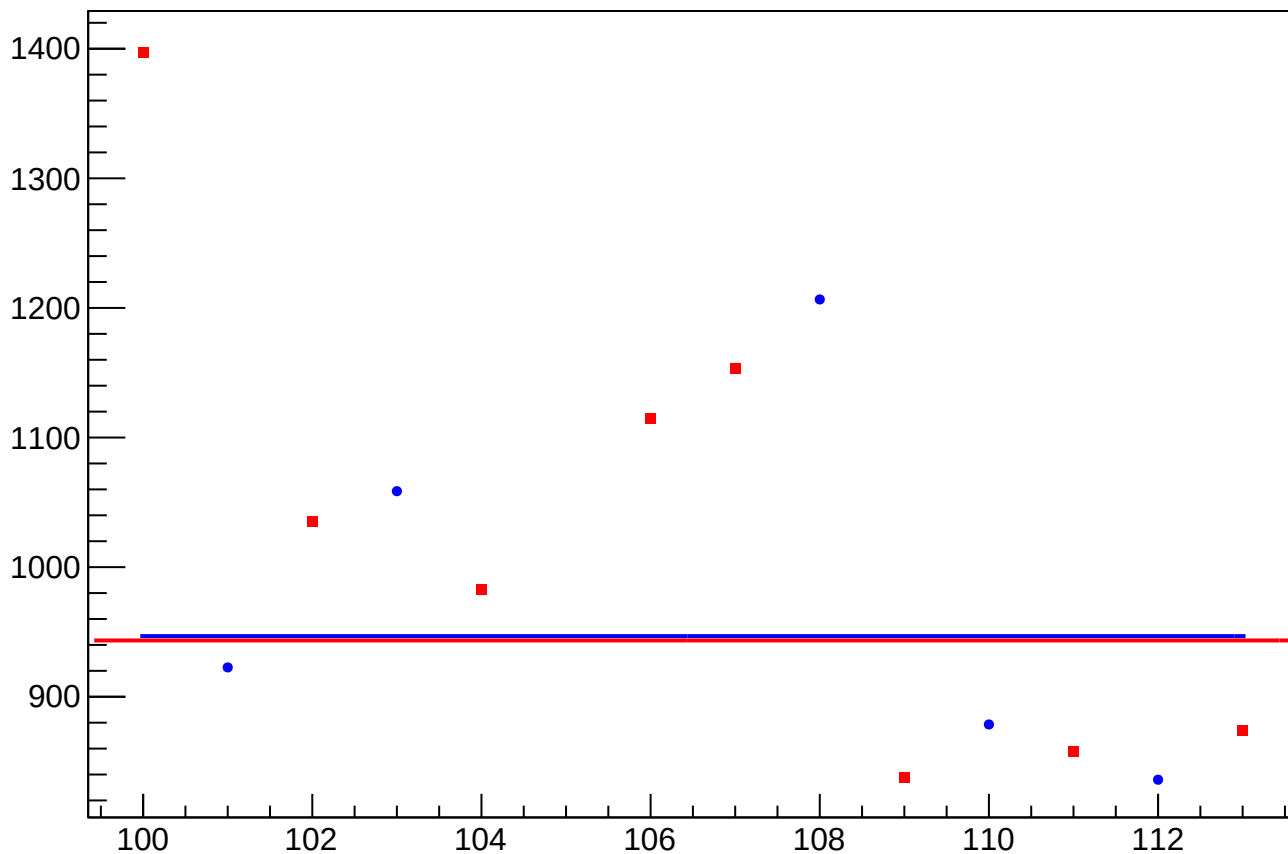
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -426.478+/-395.995  $\chi^2/\text{NDF}$ : 16.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_dit\_correction\_rms vs Slug



Right In: 946.784+/-0.424  $\chi^2/\text{NDF}$ : 72954.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 943.437+/-0.373  $\chi^2/\text{NDF}$ : 89789.2/7

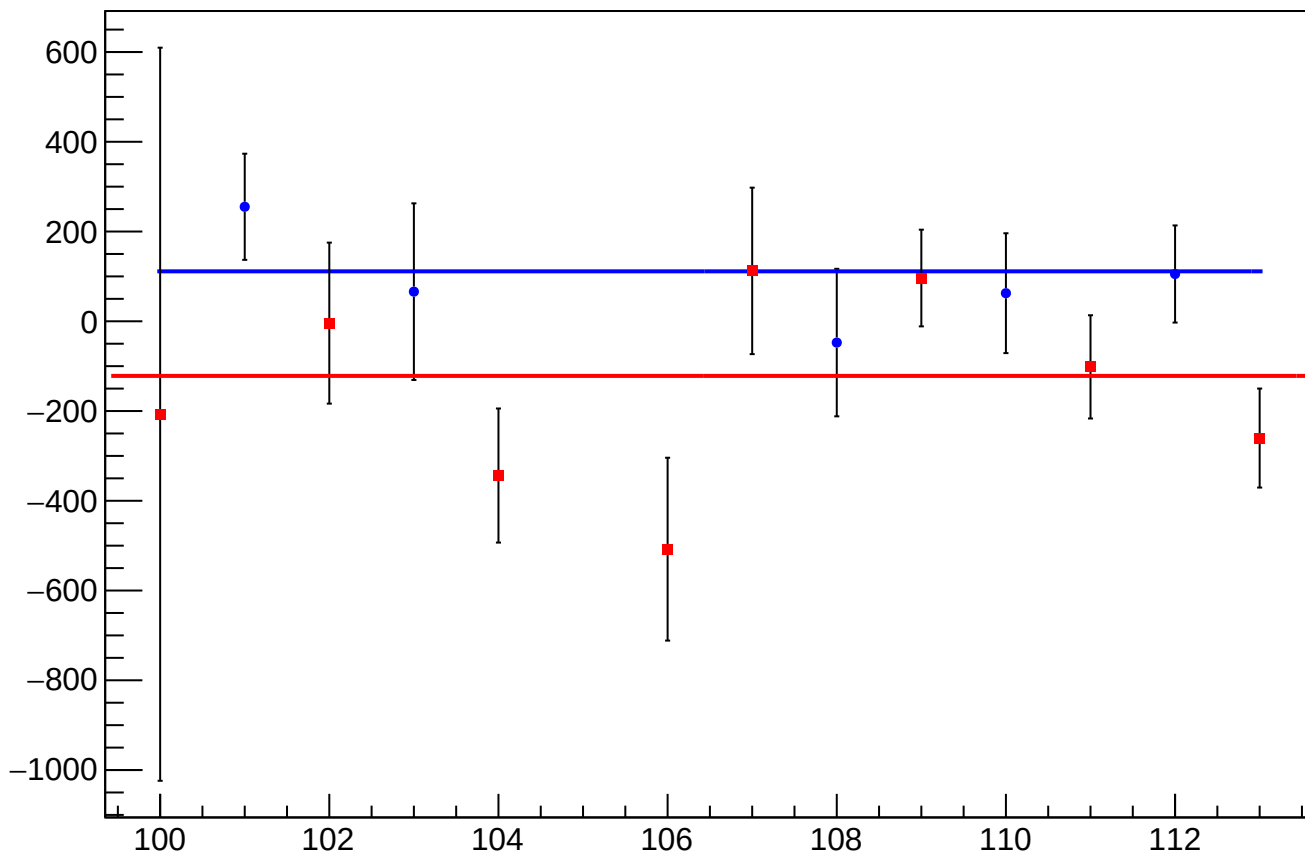
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 944.896+/-0.280  $\chi^2/\text{NDF}$ : 162779.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 111.290 $\pm$ 60.219  $\chi^2$ /NDF: 2.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -121.695 $\pm$ 51.679  $\chi^2$ /NDF: 13.5/7

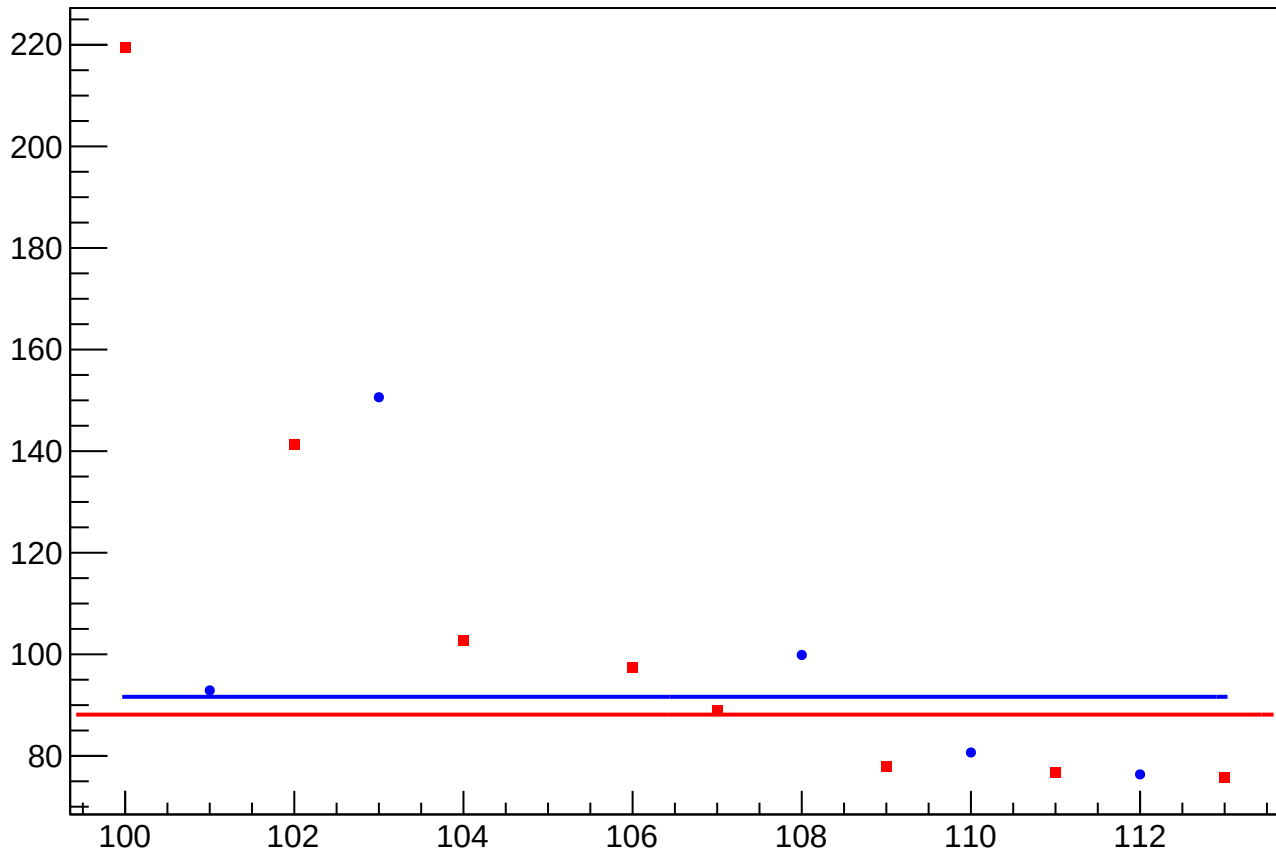
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -22.880 $\pm$ 39.218  $\chi^2$ /NDF: 24.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 91.634 $\pm$ 0.043  $\chi^2$ /NDF: 238133.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 88.128 $\pm$ 0.037  $\chi^2$ /NDF: 313222.2/7

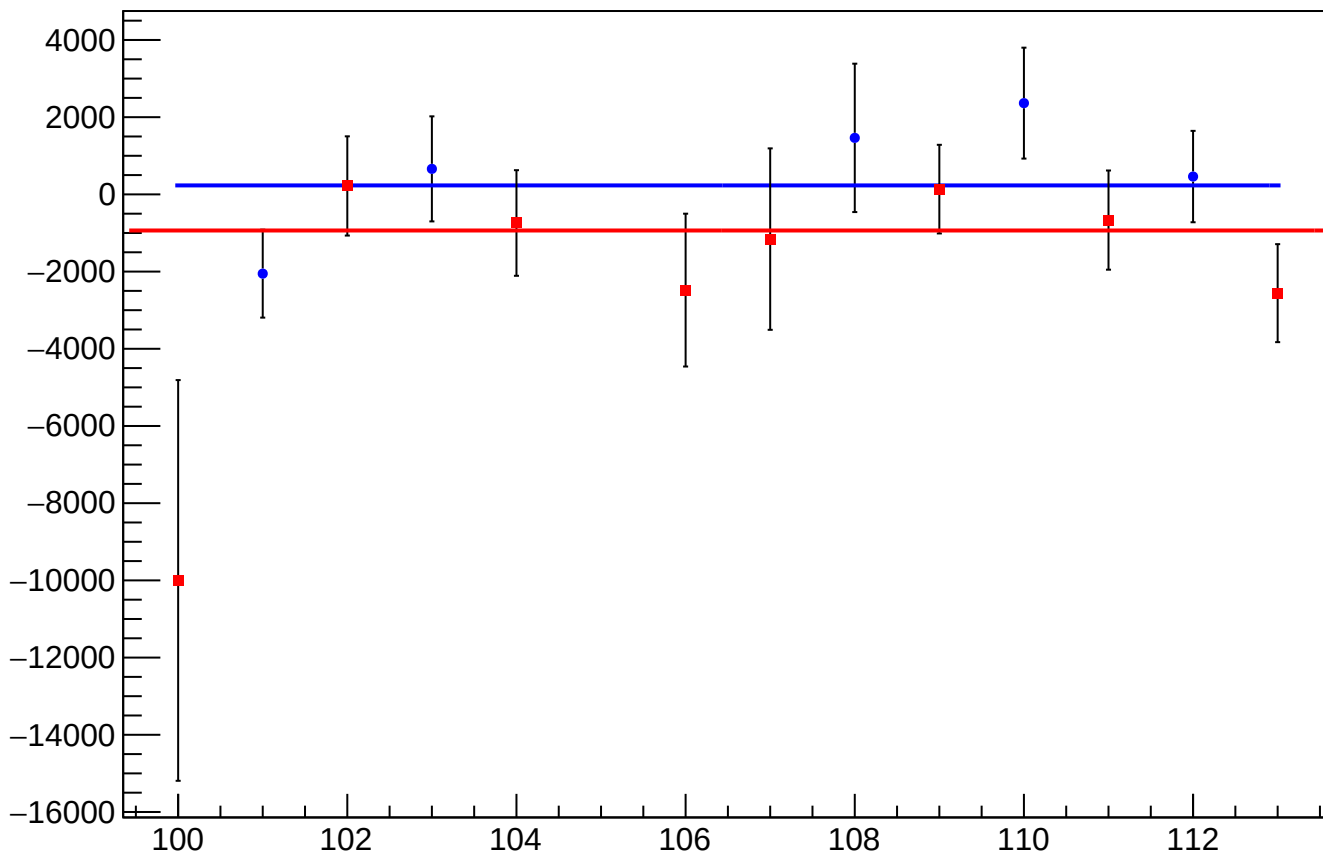
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.615 $\pm$ 0.028  $\chi^2$ /NDF: 555258.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 232.376+/-599.839  $\chi^2/\text{NDF}$ : 6.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -935.431+/-527.205  $\chi^2/\text{NDF}$ : 7.0/7

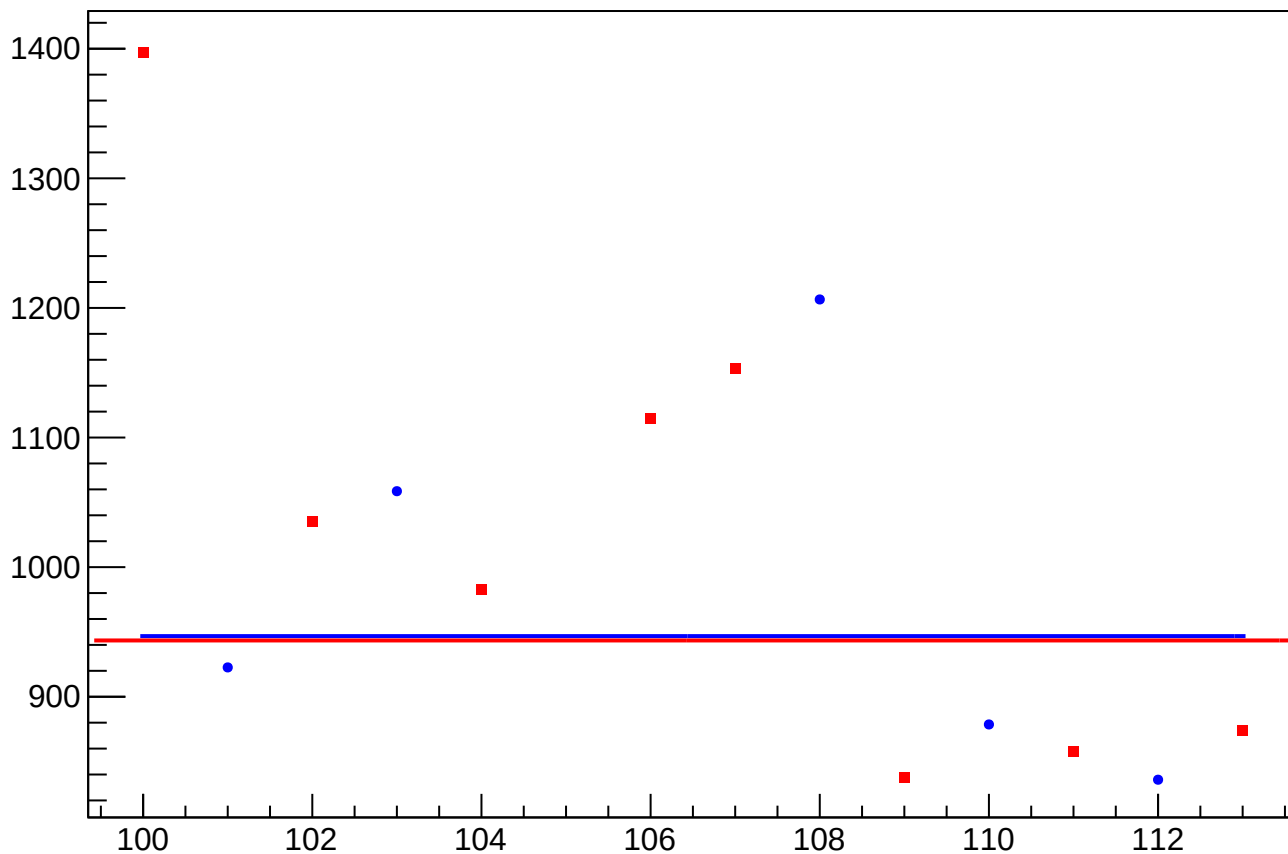
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -426.476+/-395.994  $\chi^2/\text{NDF}$ : 16.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 946.780 $\pm$ 0.424  $\chi^2$ /NDF: 72956.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 943.434 $\pm$ 0.373  $\chi^2$ /NDF: 89791.1/7

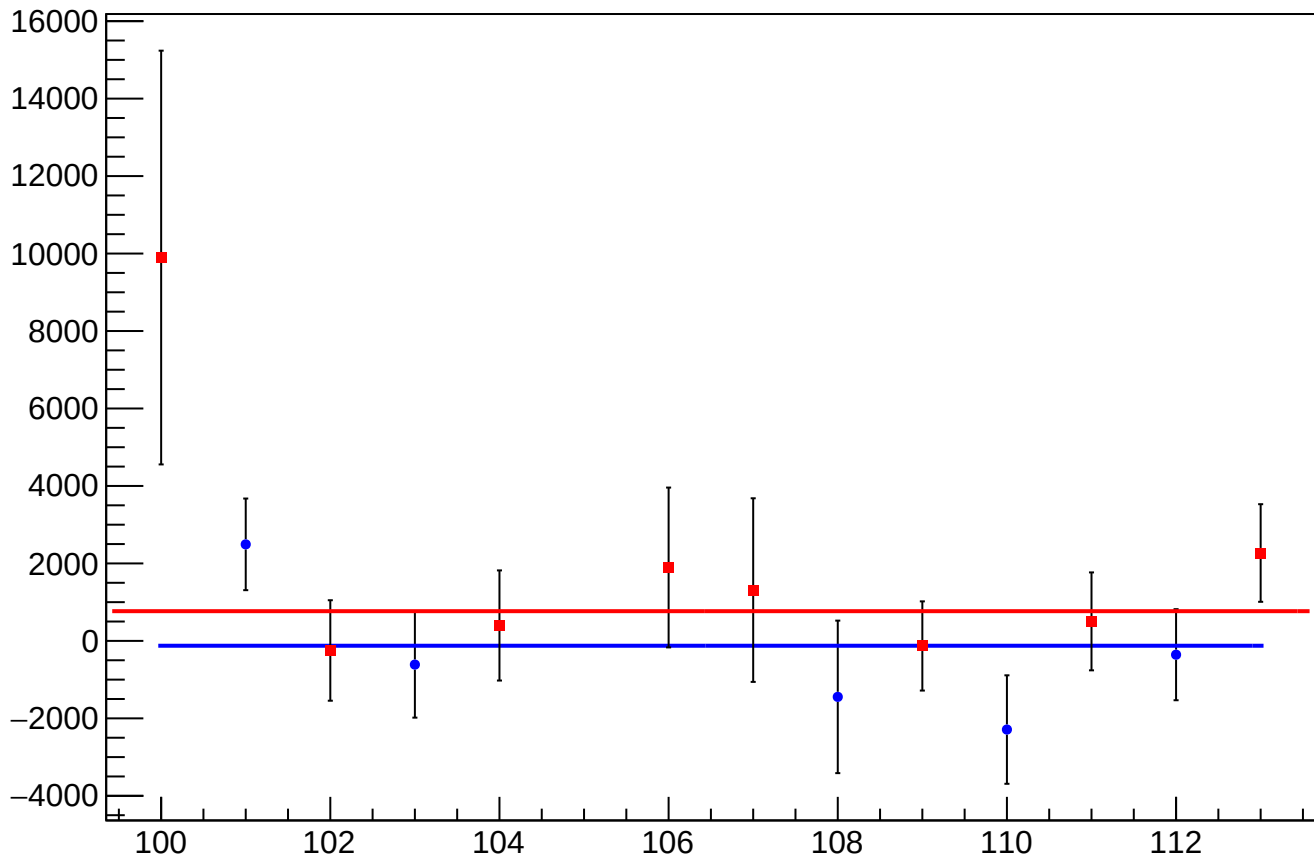
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 944.892 $\pm$ 0.280  $\chi^2$ /NDF: 162782.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_12345678\_avg\_mean vs Slug



Right In: -125.047+/-604.167  $\chi^2/\text{NDF}$ : 7.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 767.264+/-530.983  $\chi^2/\text{NDF}$ : 6.0/7

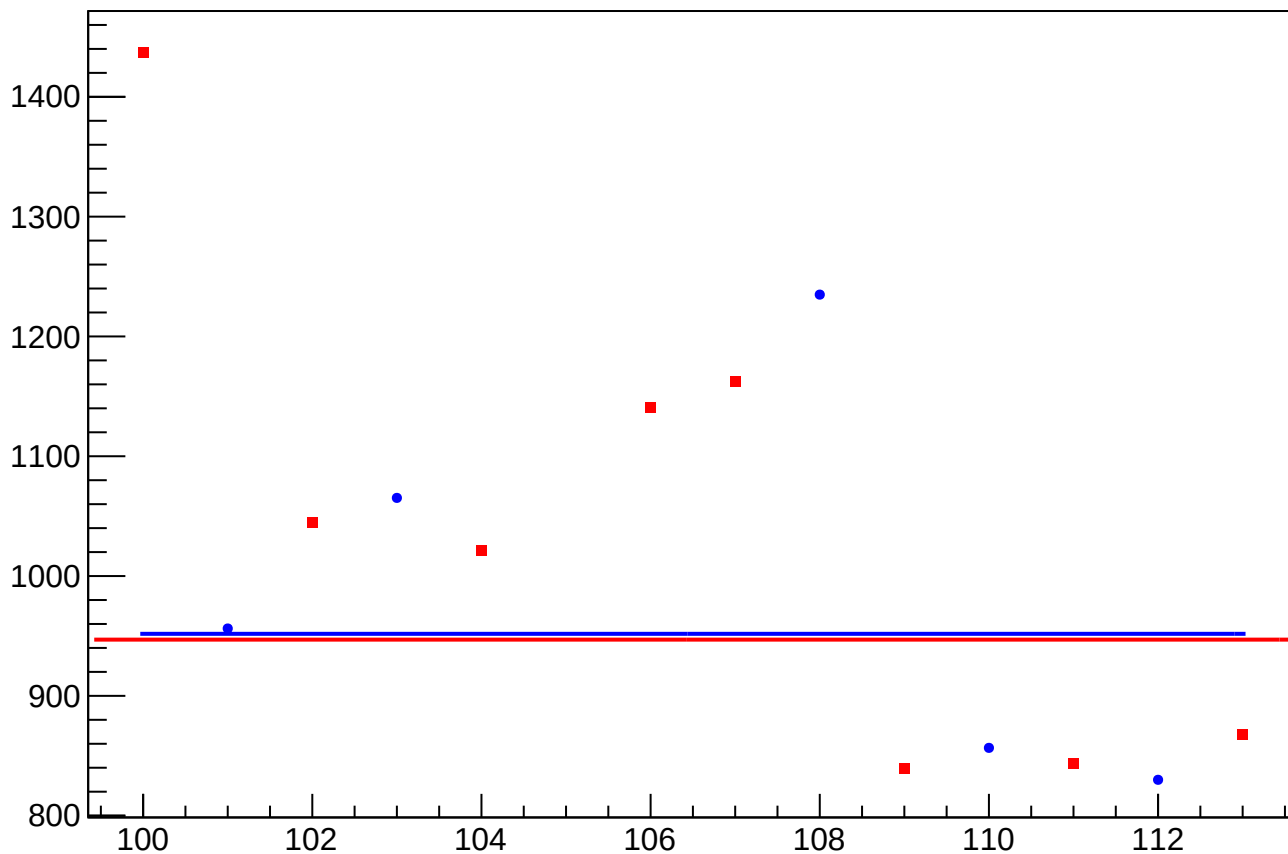
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 378.398+/-398.840  $\chi^2/\text{NDF}$ : 15.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 951.780 $\pm$ 0.427  $\chi^2$ /NDF: 85852.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 946.935 $\pm$ 0.375  $\chi^2$ /NDF: 106450.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

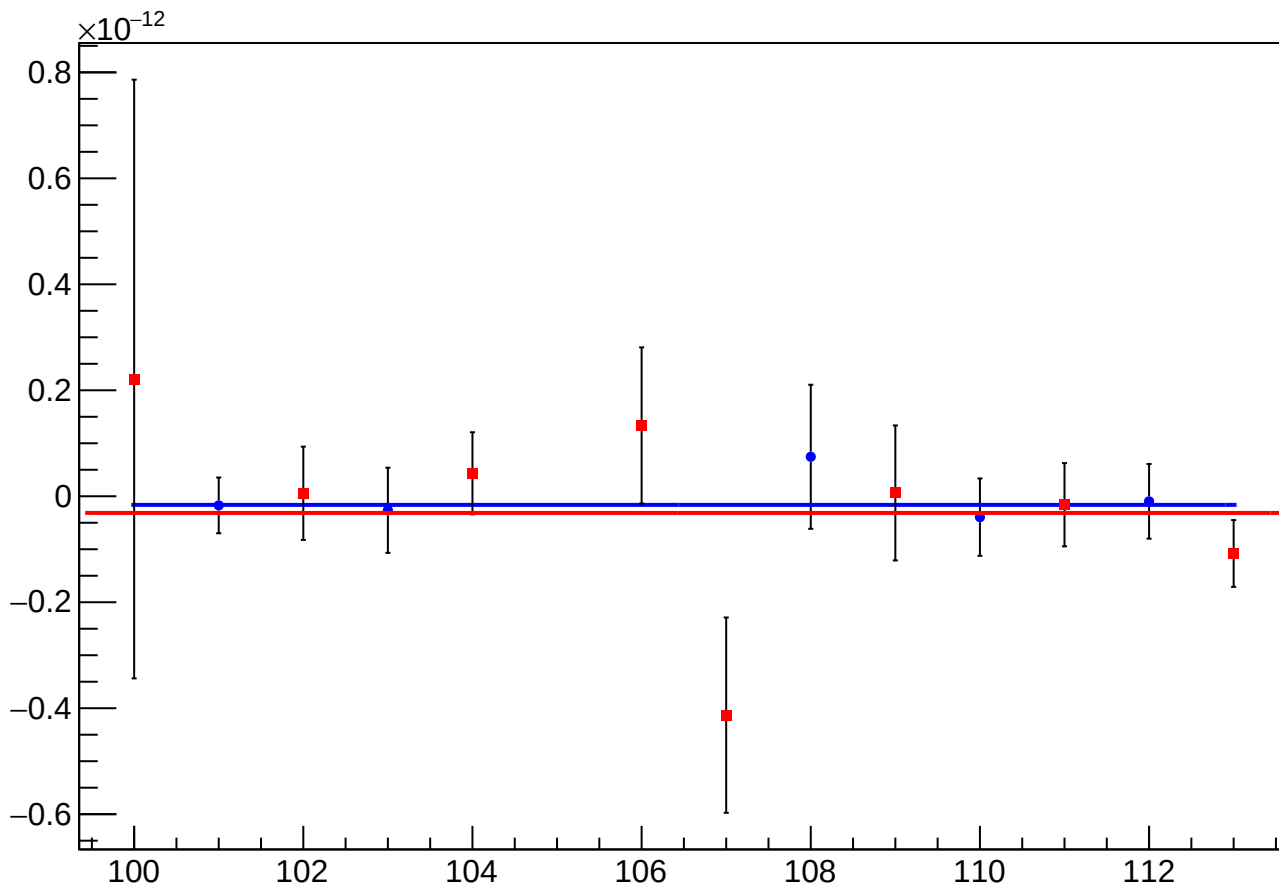
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 949.047 $\pm$ 0.282  $\chi^2$ /NDF: 192375.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_12345678\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.5/7

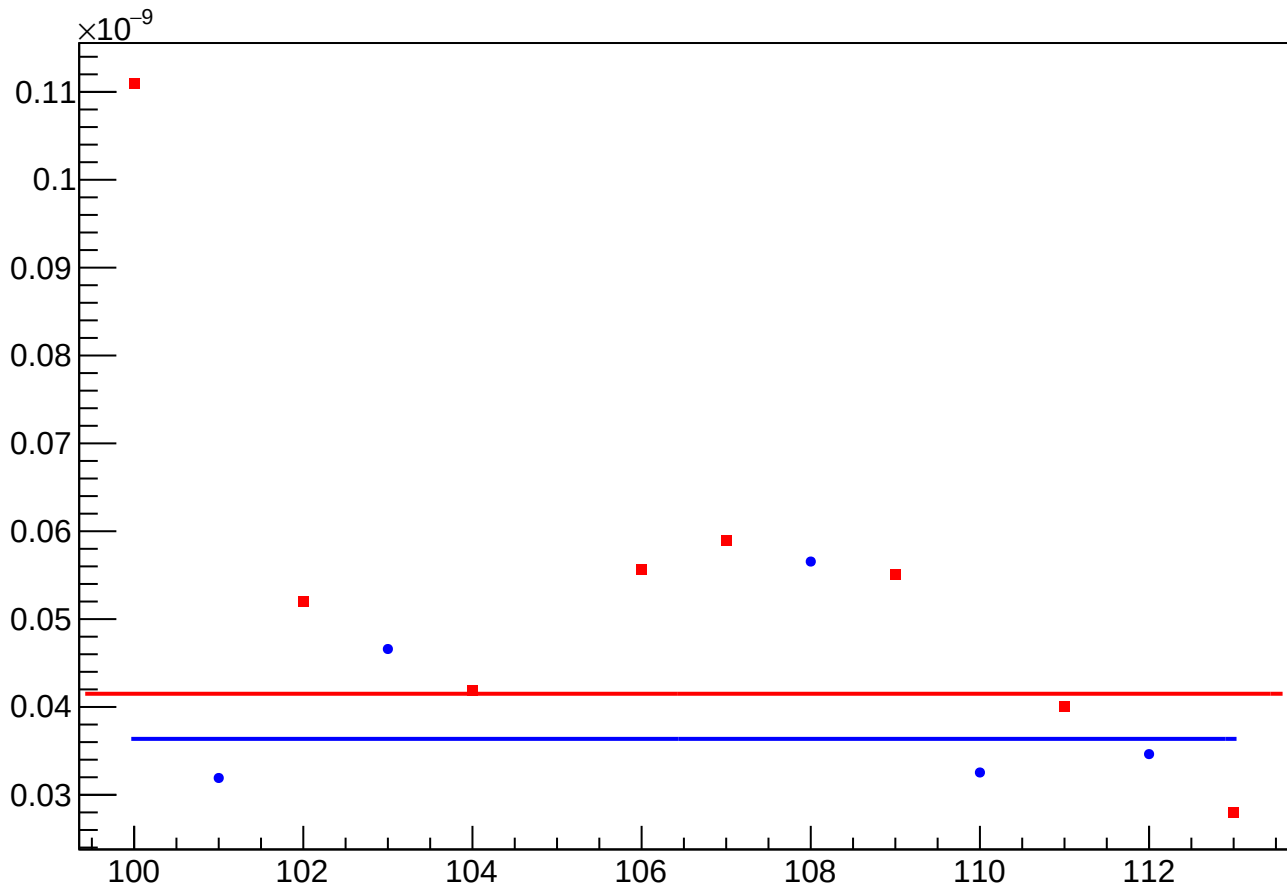
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 97499.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 210308.5/7

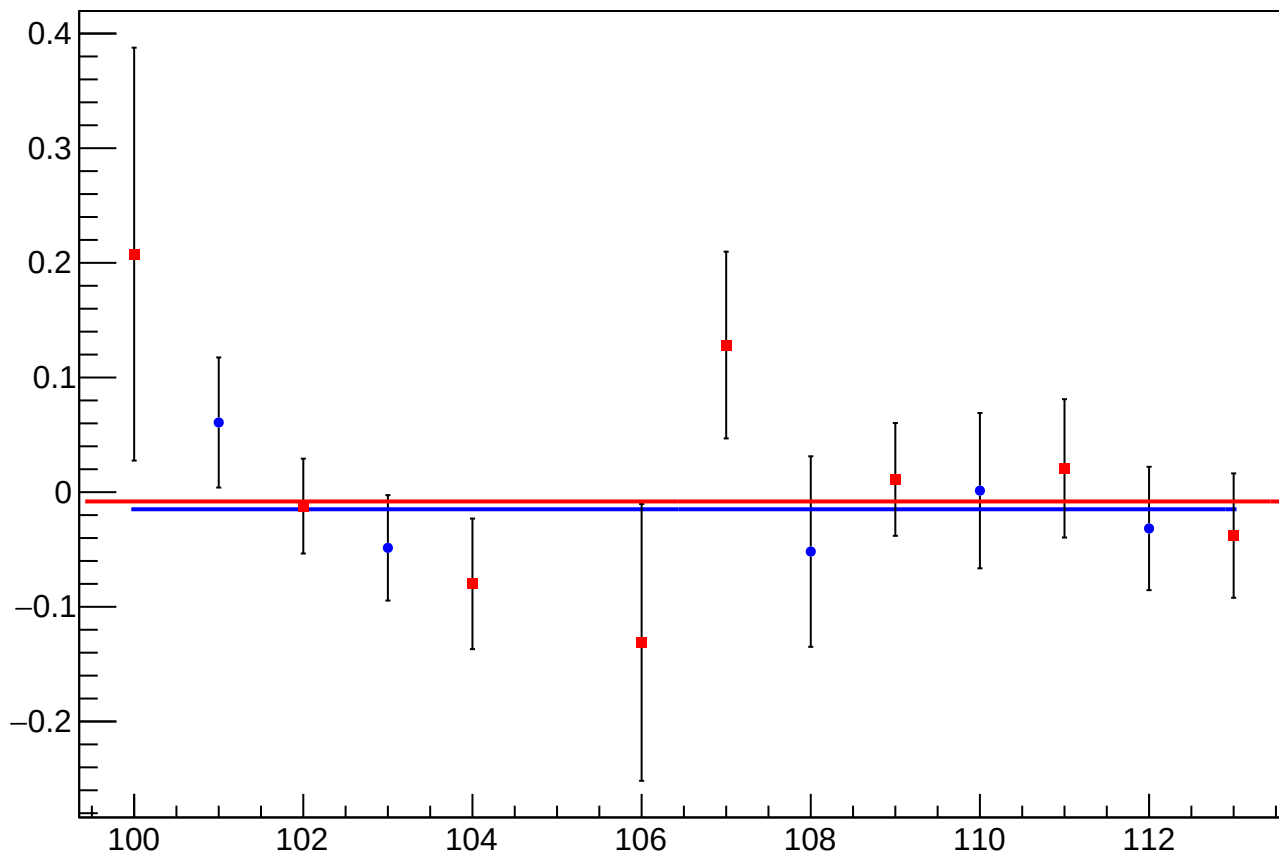
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 331565.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.015 \pm 0.026$   $\chi^2/\text{NDF}$ : 2.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.008 \pm 0.021$   $\chi^2/\text{NDF}$ : 7.6/7

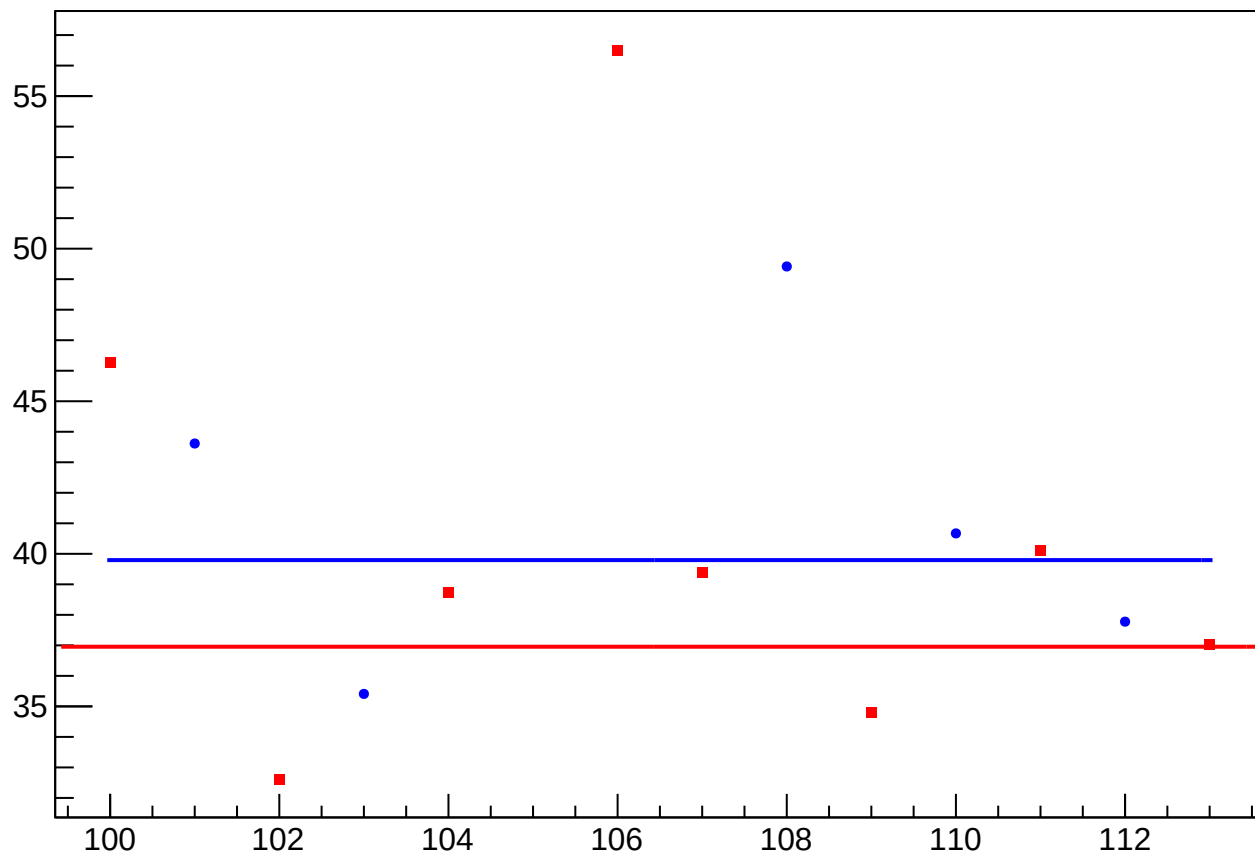
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.011 \pm 0.017$   $\chi^2/\text{NDF}$ : 10.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 39.794+/-0.018  $\chi^2/\text{NDF}$ : 57225.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.955+/-0.015  $\chi^2/\text{NDF}$ : 93091.7/7

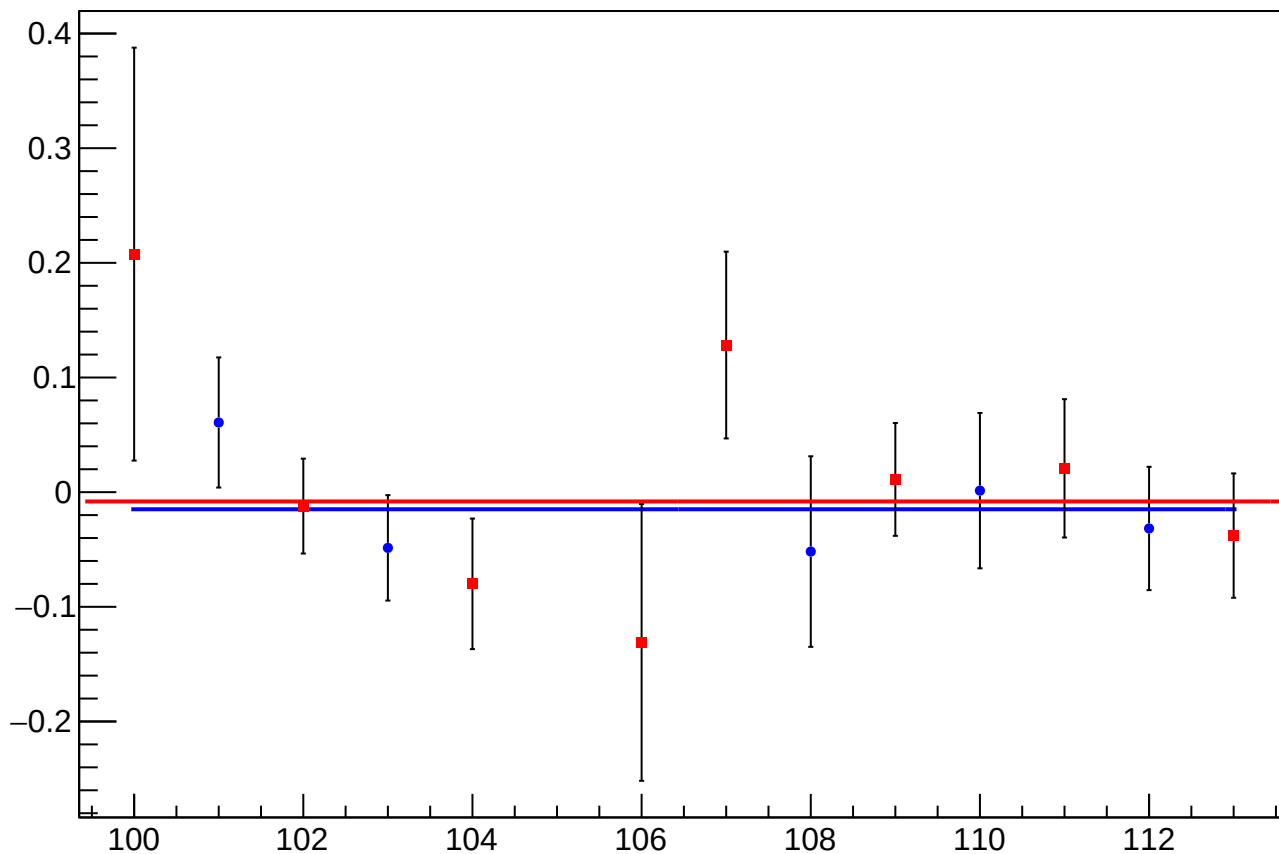
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.112+/-0.012  $\chi^2/\text{NDF}$ : 164565.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.015 $\pm$ 0.026  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.008 $\pm$ 0.021  $\chi^2$ /NDF: 7.6/7

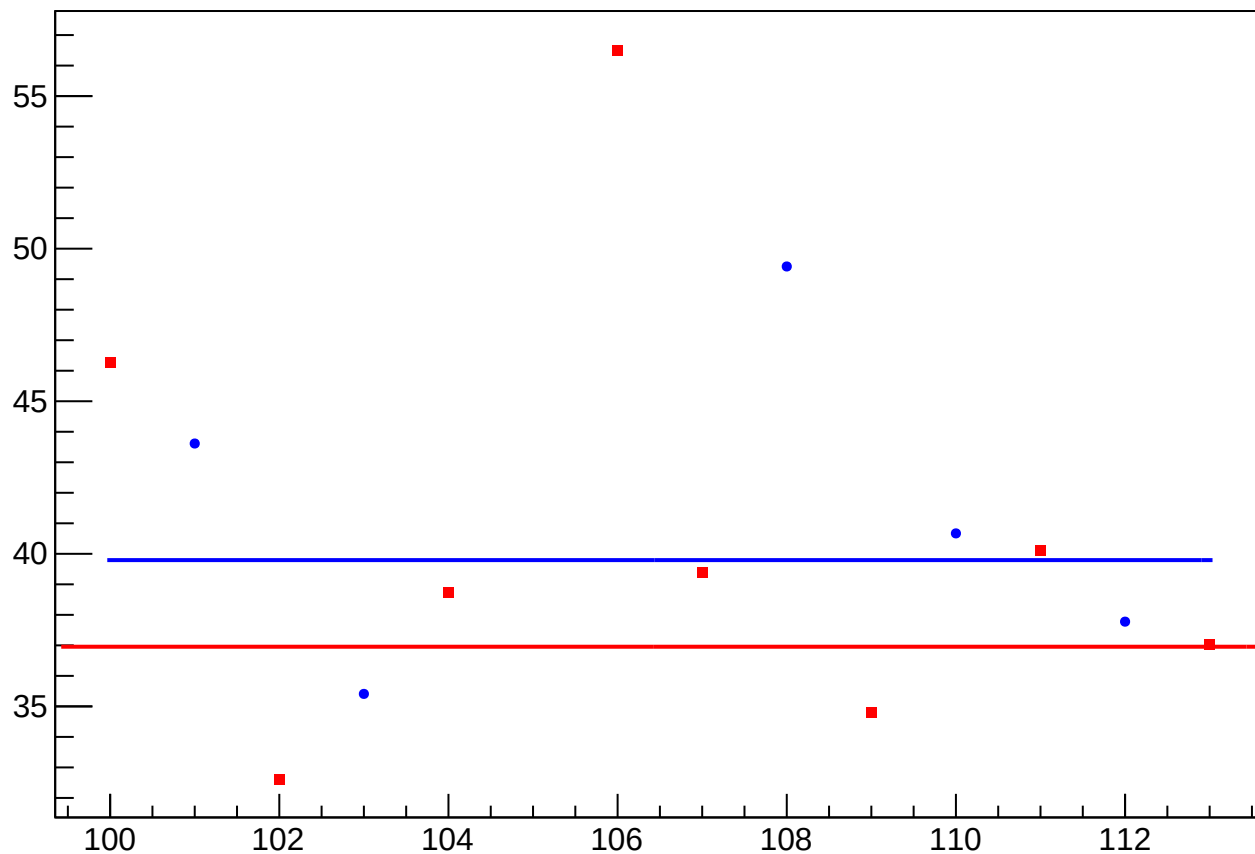
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.011 $\pm$ 0.017  $\chi^2$ /NDF: 10.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 39.794+/-0.018  $\chi^2/\text{NDF}$ : 57225.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.955+/-0.015  $\chi^2/\text{NDF}$ : 93091.7/7

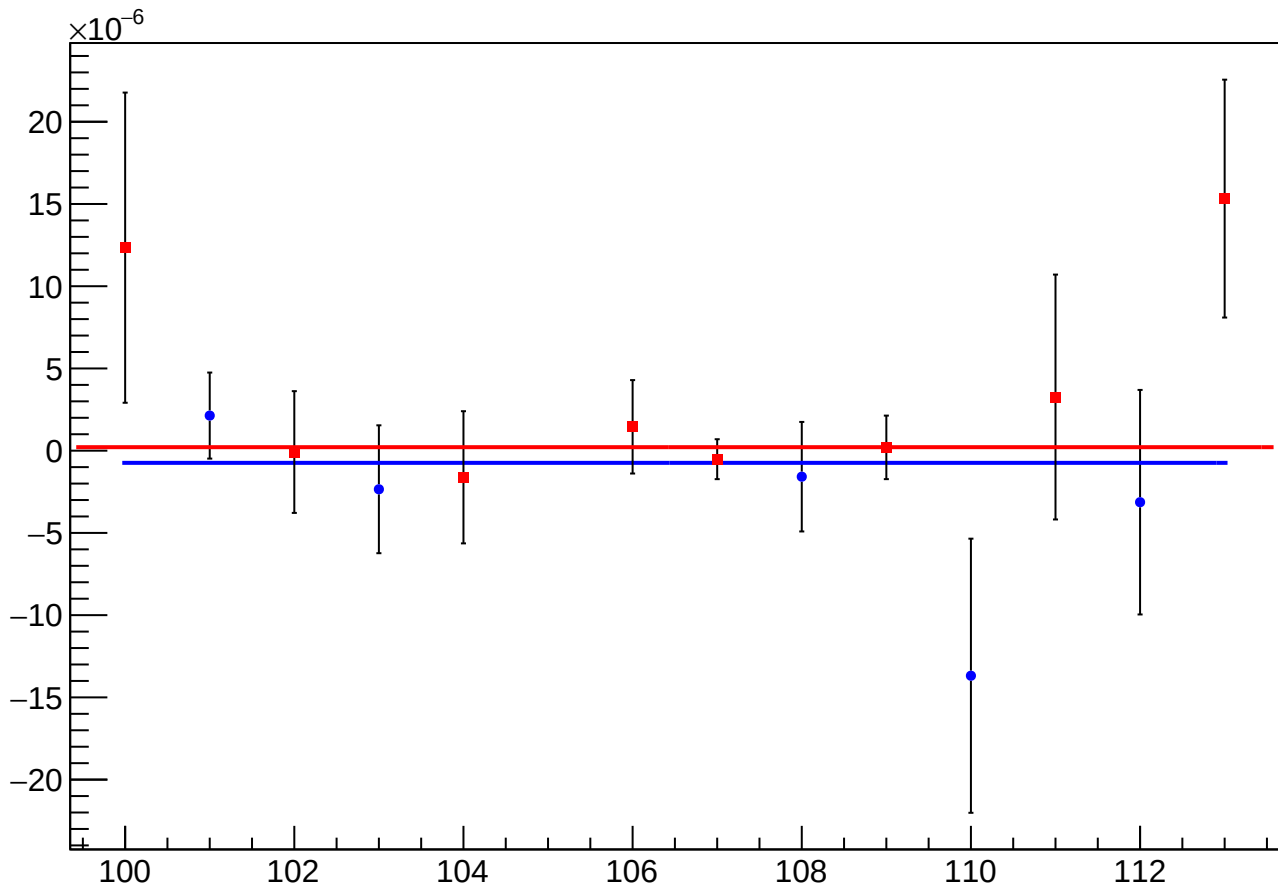
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.112+/-0.012  $\chi^2/\text{NDF}$ : 164565.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.0/7

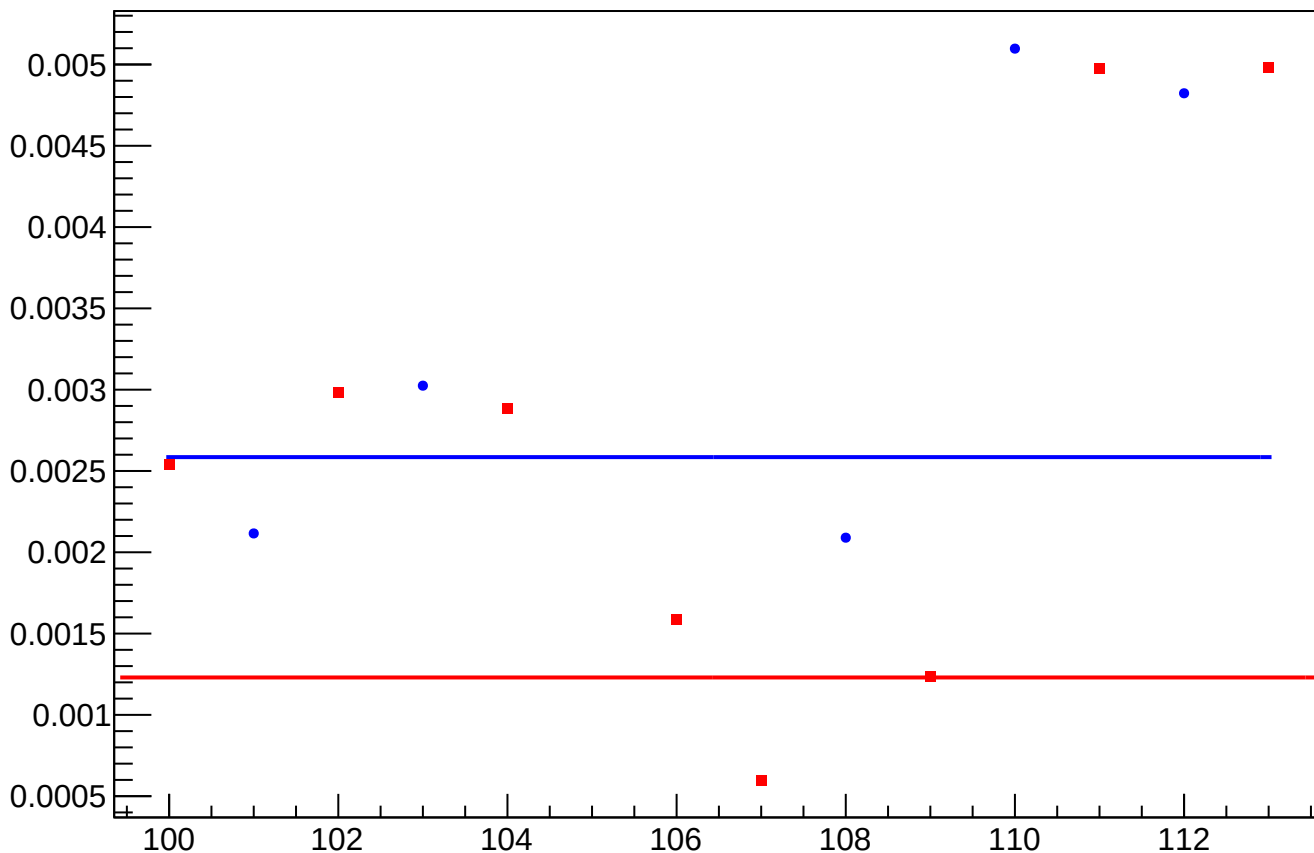
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 530871.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2448207.8/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

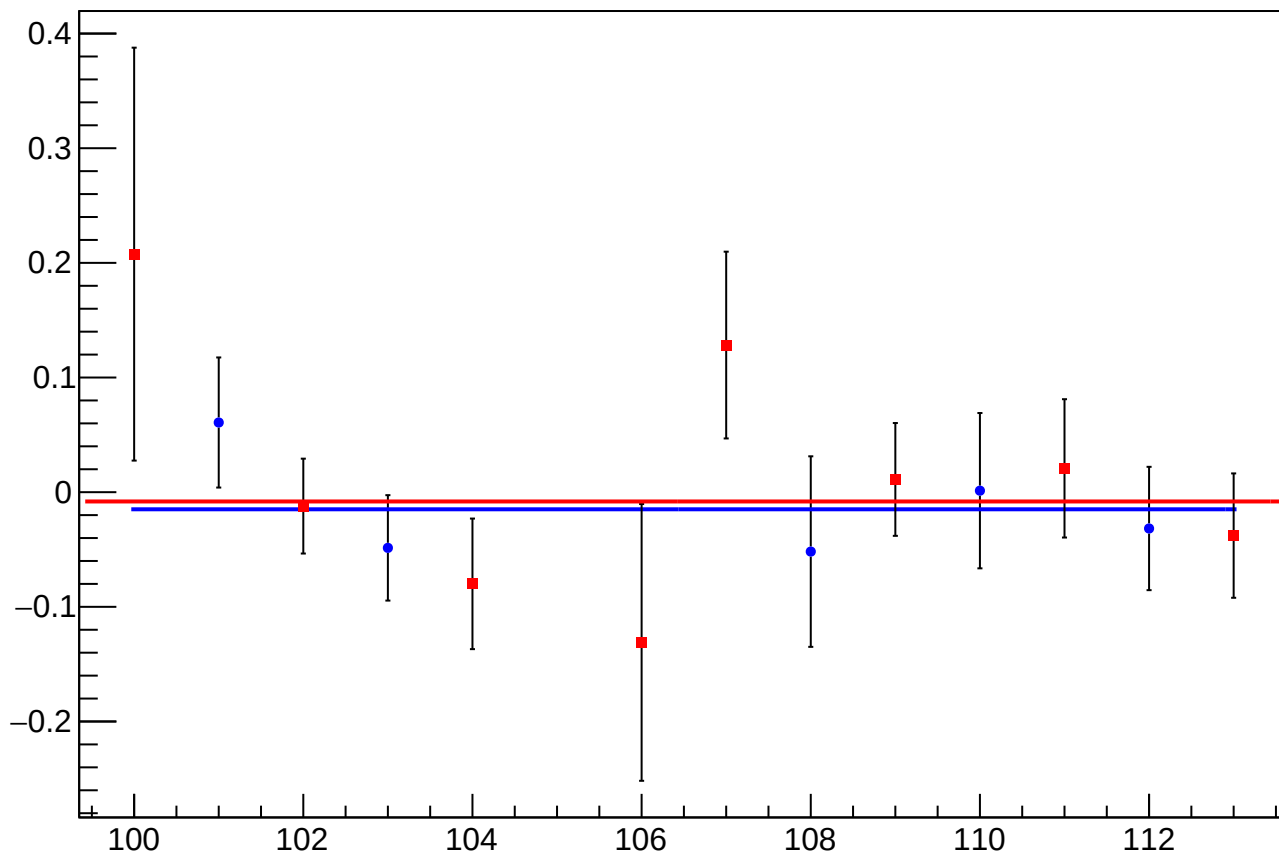
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3957806.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.015 $\pm$ 0.026  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.008 $\pm$ 0.021  $\chi^2$ /NDF: 7.6/7

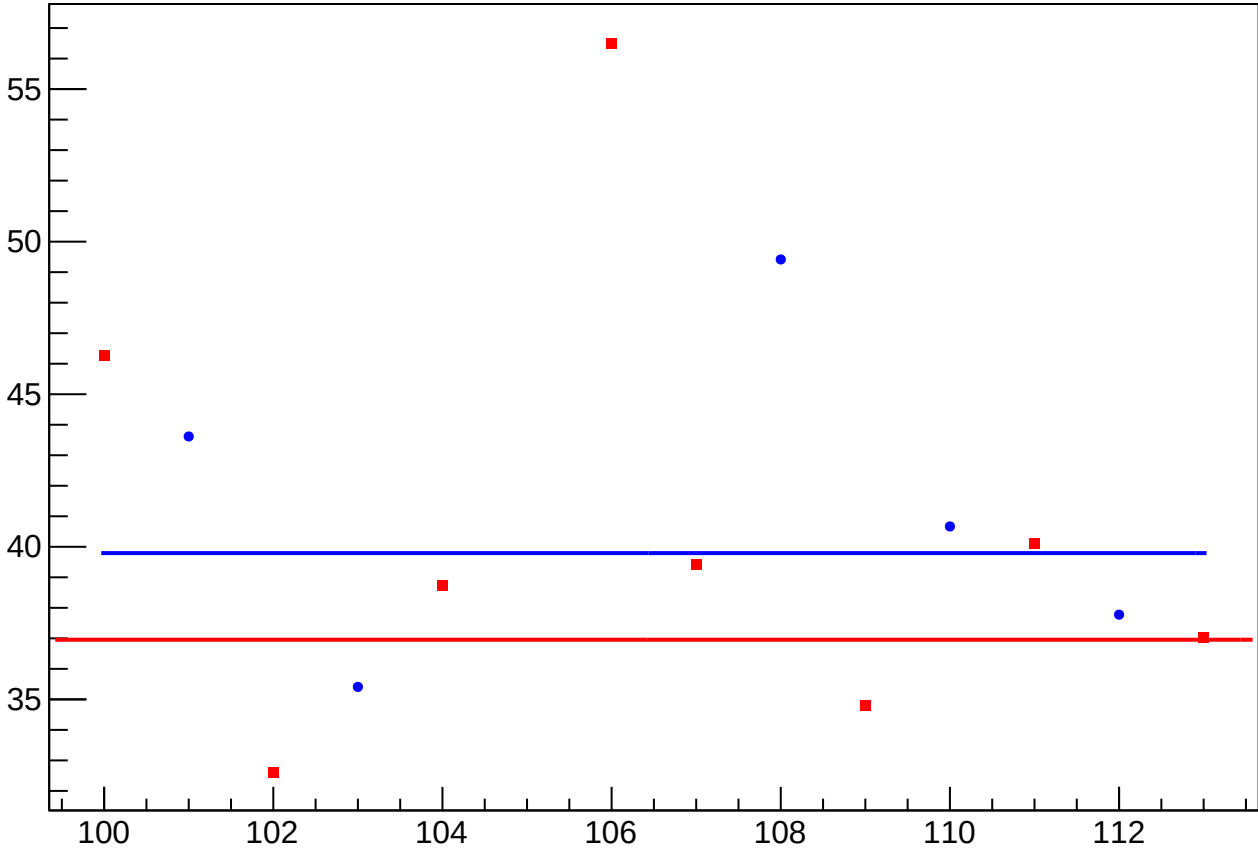
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.011 $\pm$ 0.017  $\chi^2$ /NDF: 10.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 39.793+/-0.018     $\chi^2/\text{NDF}$ : 57238.4/4

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.955+/-0.015     $\chi^2/\text{NDF}$ : 93094.8/7

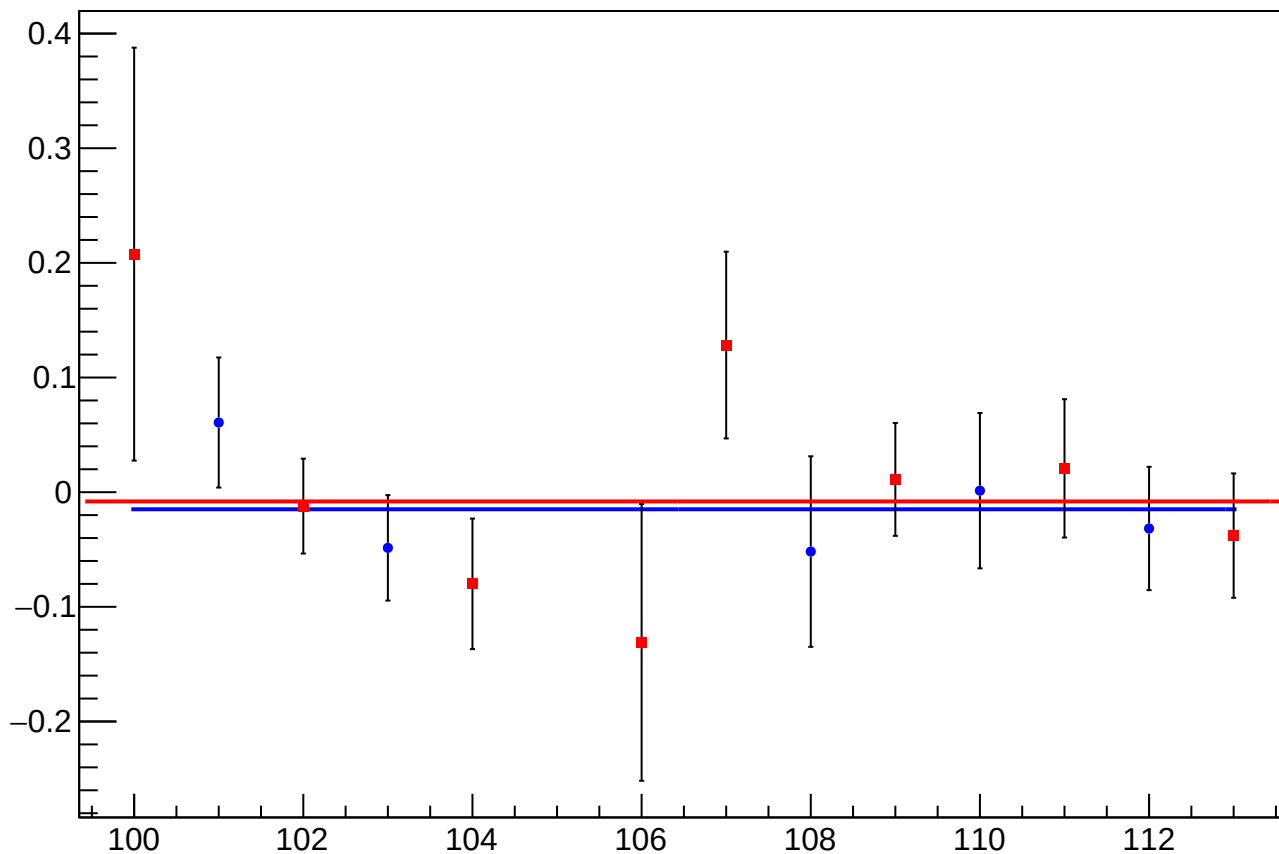
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 38.111+/-0.012     $\chi^2/\text{NDF}$ : 164582.0/12

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.015 $\pm$ 0.026  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.008 $\pm$ 0.021  $\chi^2$ /NDF: 7.6/7

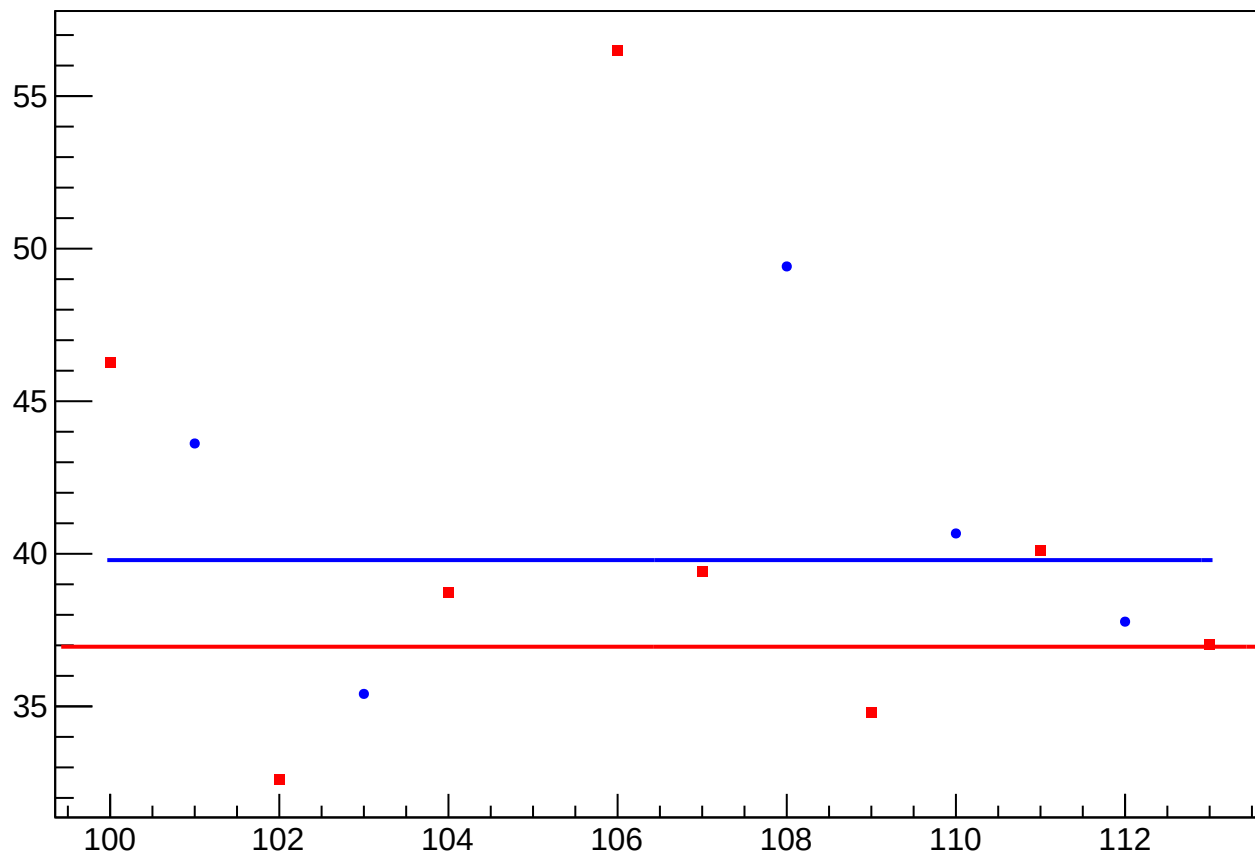
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.011 $\pm$ 0.017  $\chi^2$ /NDF: 10.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 39.793+/-0.018  $\chi^2$ /NDF: 57238.4/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.955+/-0.015  $\chi^2$ /NDF: 93094.8/7

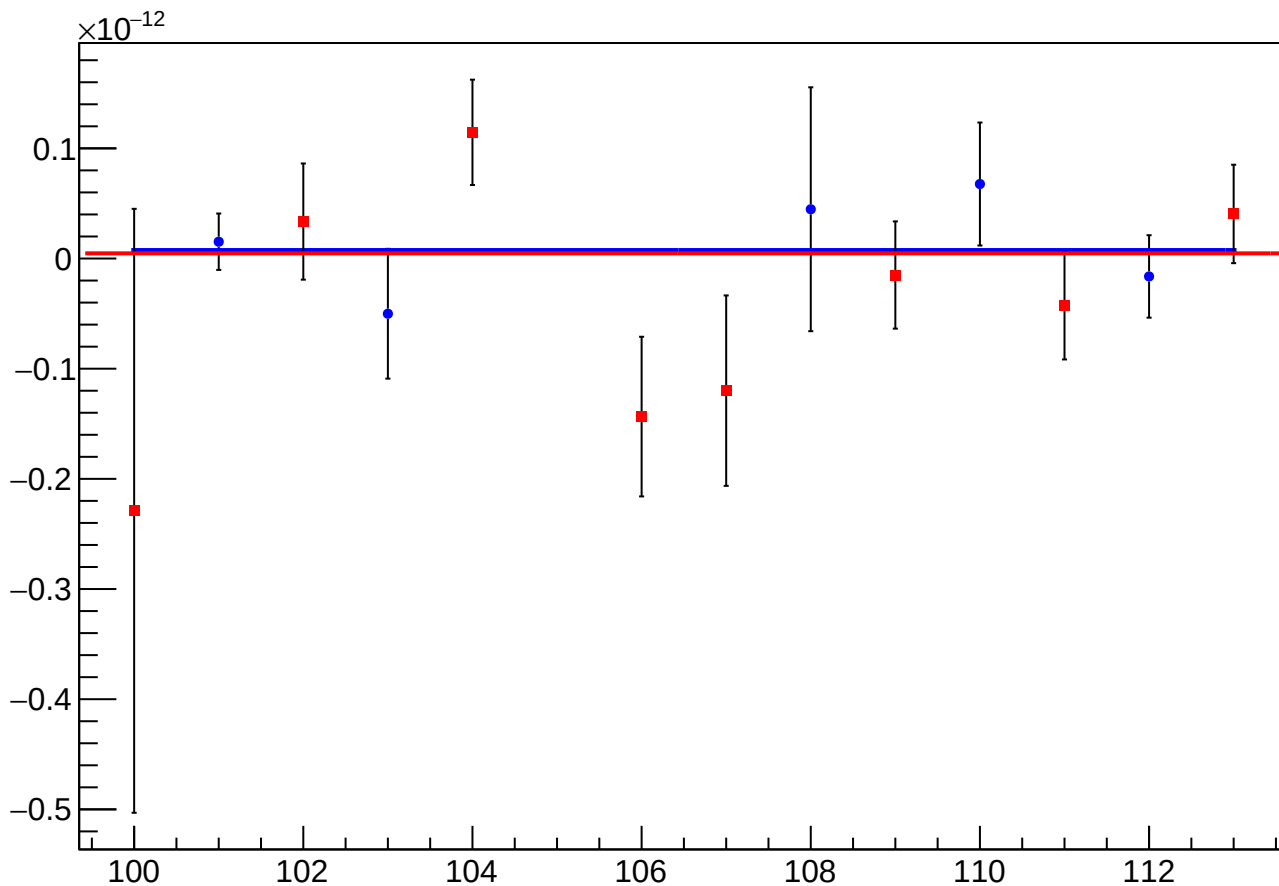
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 38.111+/-0.012  $\chi^2$ /NDF: 164582.0/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.3/7

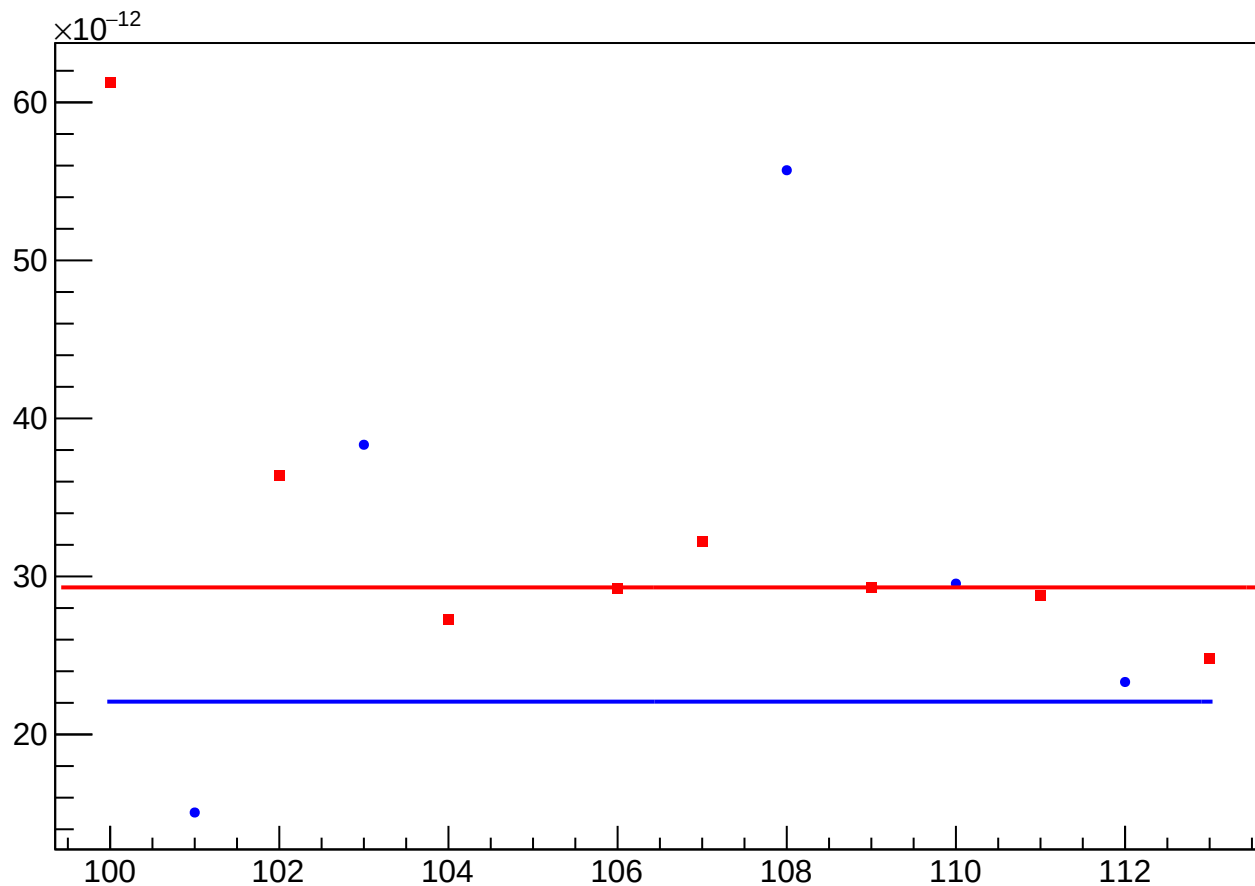
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 525284.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 89207.5/7

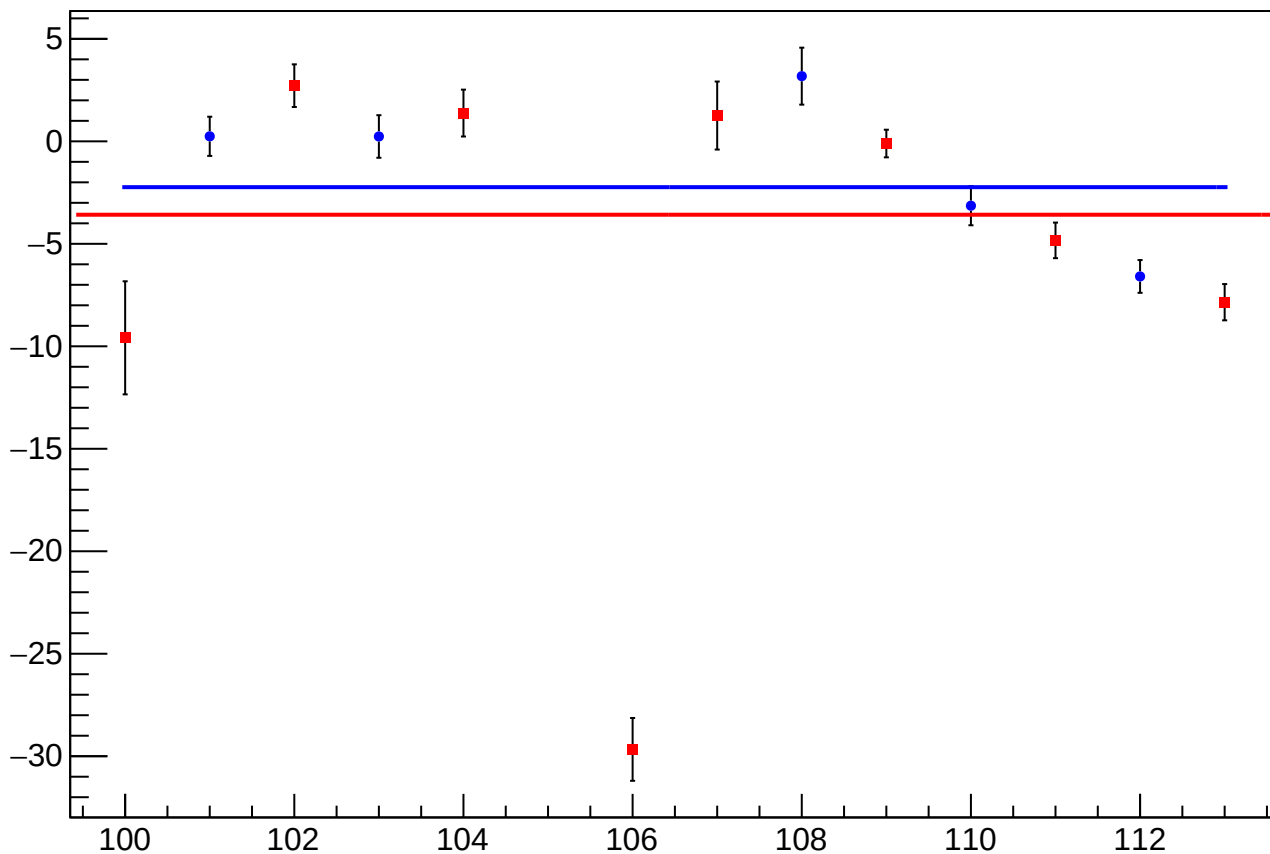
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 754872.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug



Right In: -2.236 $\pm$ 0.438  $\chi^2$ /NDF: 58.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.581 $\pm$ 0.367  $\chi^2$ /NDF: 410.3/7

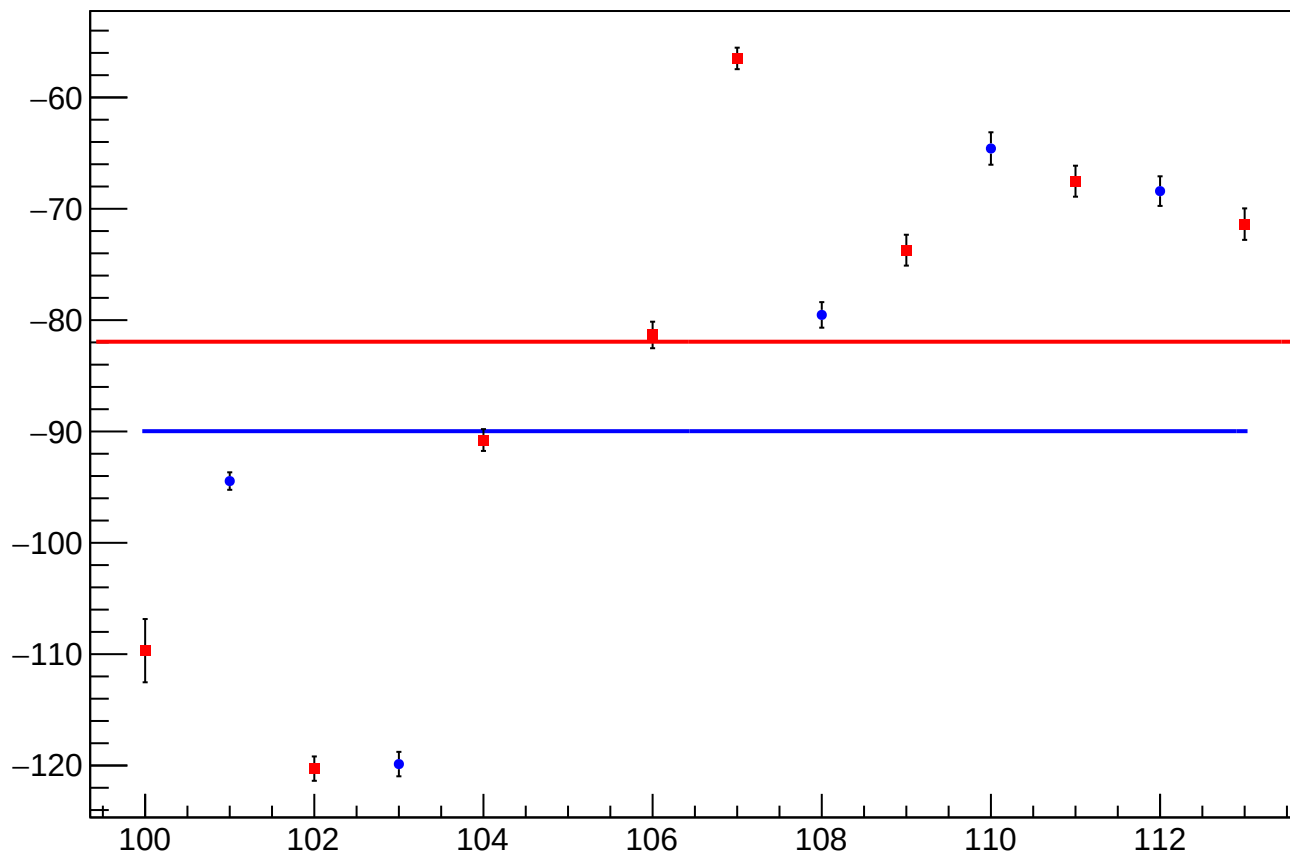
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.026 $\pm$ 0.282  $\chi^2$ /NDF: 474.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug



Right In:  $-89.973 \pm 0.485$   $\chi^2/\text{NDF}$ : 1423.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-81.938 \pm 0.434$   $\chi^2/\text{NDF}$ : 2299.1/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

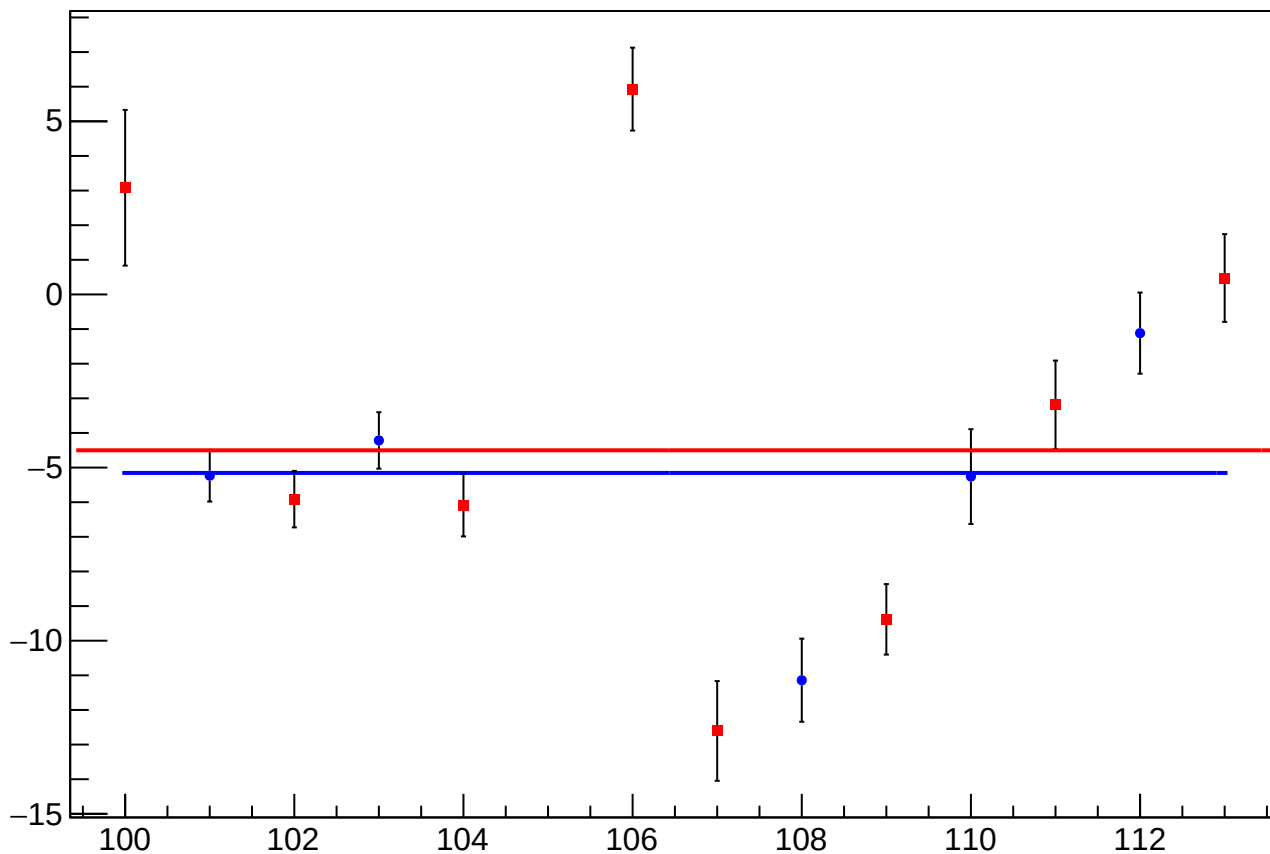
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-85.506 \pm 0.323$   $\chi^2/\text{NDF}$ : 3874.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug



Right In:  $-5.154 \pm 0.436$   $\chi^2/\text{NDF}$ : 38.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.501 \pm 0.398$   $\chi^2/\text{NDF}$ : 164.5/7

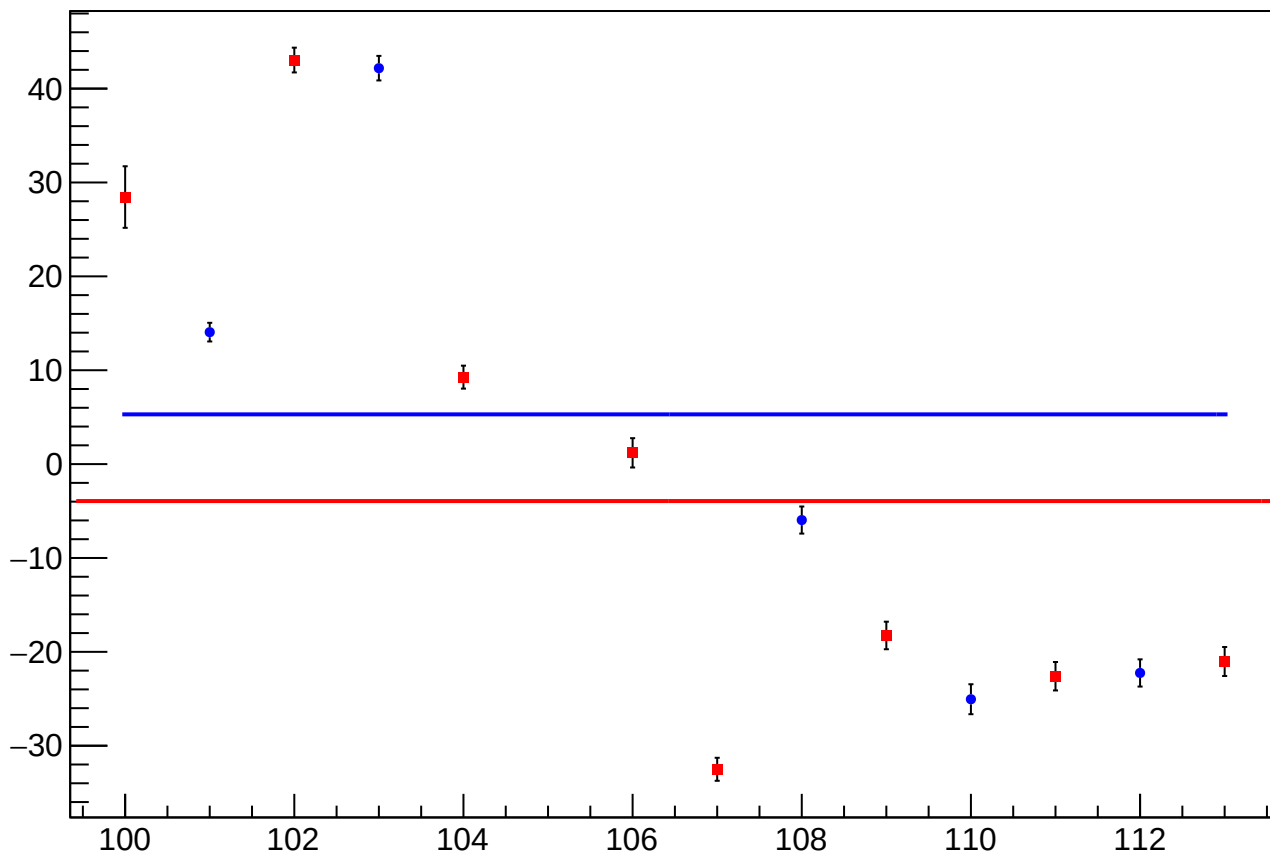
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-4.798 \pm 0.294$   $\chi^2/\text{NDF}$ : 203.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug



Right In: 5.299 $\pm$ 0.583  $\chi^2$ /NDF: 1655.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.934 $\pm$ 0.518  $\chi^2$ /NDF: 2405.0/7

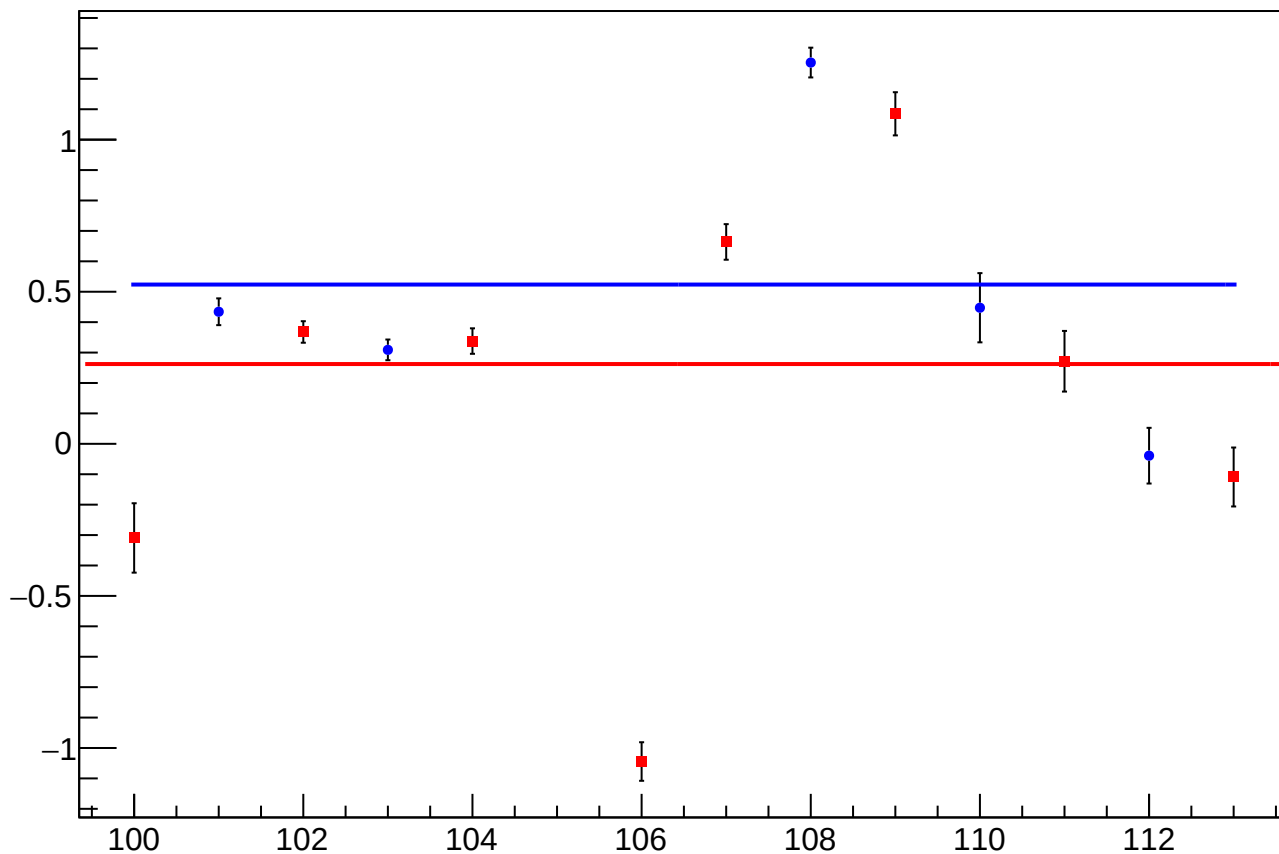
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.138 $\pm$ 0.387  $\chi^2$ /NDF: 4201.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug



Right In: 0.524 $\pm$ 0.022  $\chi^2$ /NDF: 304.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.262 $\pm$ 0.020  $\chi^2$ /NDF: 658.3/7

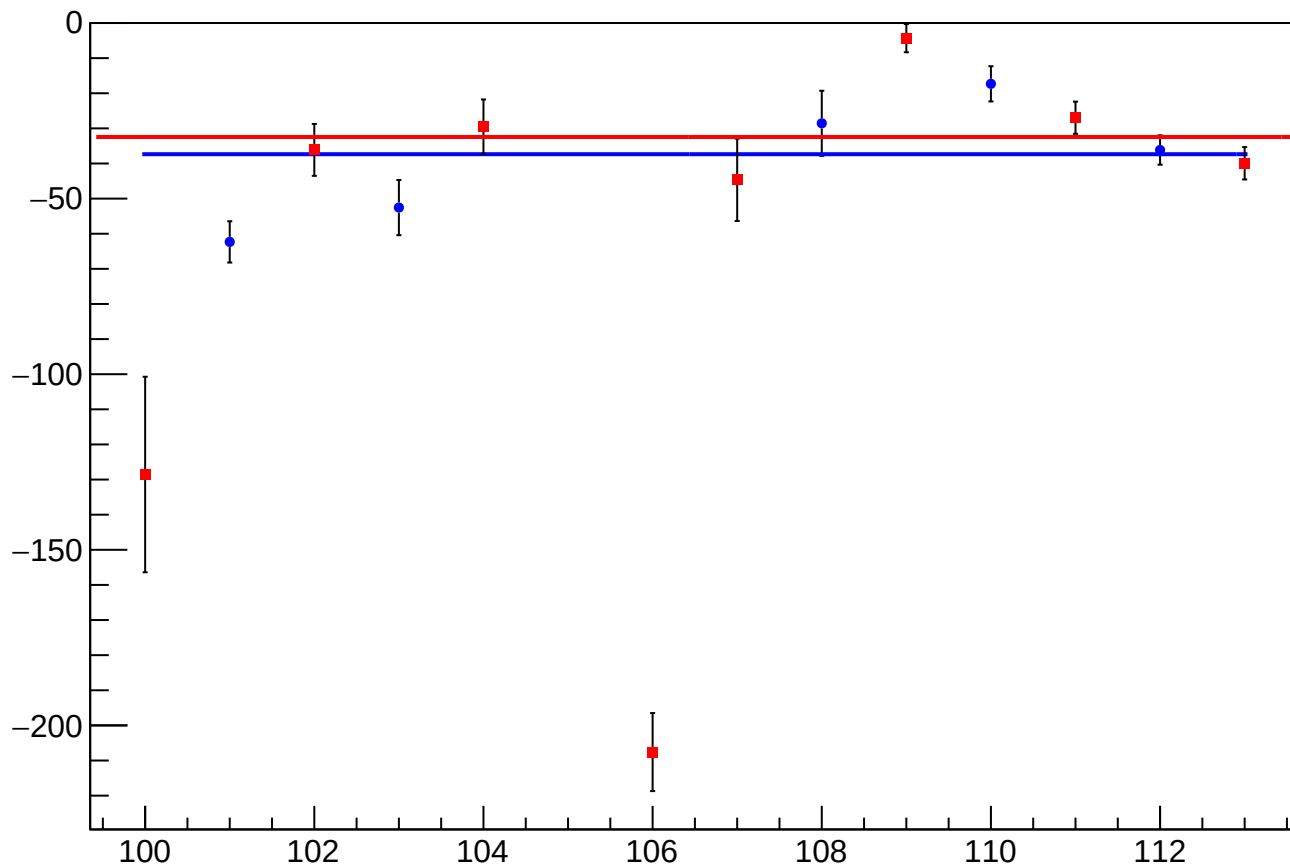
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.381 $\pm$ 0.015  $\chi^2$ /NDF: 1037.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug



Right In:  $-37.357 \pm 2.550$   $\chi^2/\text{NDF}$ : 38.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-32.453 \pm 2.192$   $\chi^2/\text{NDF}$ : 314.9/7

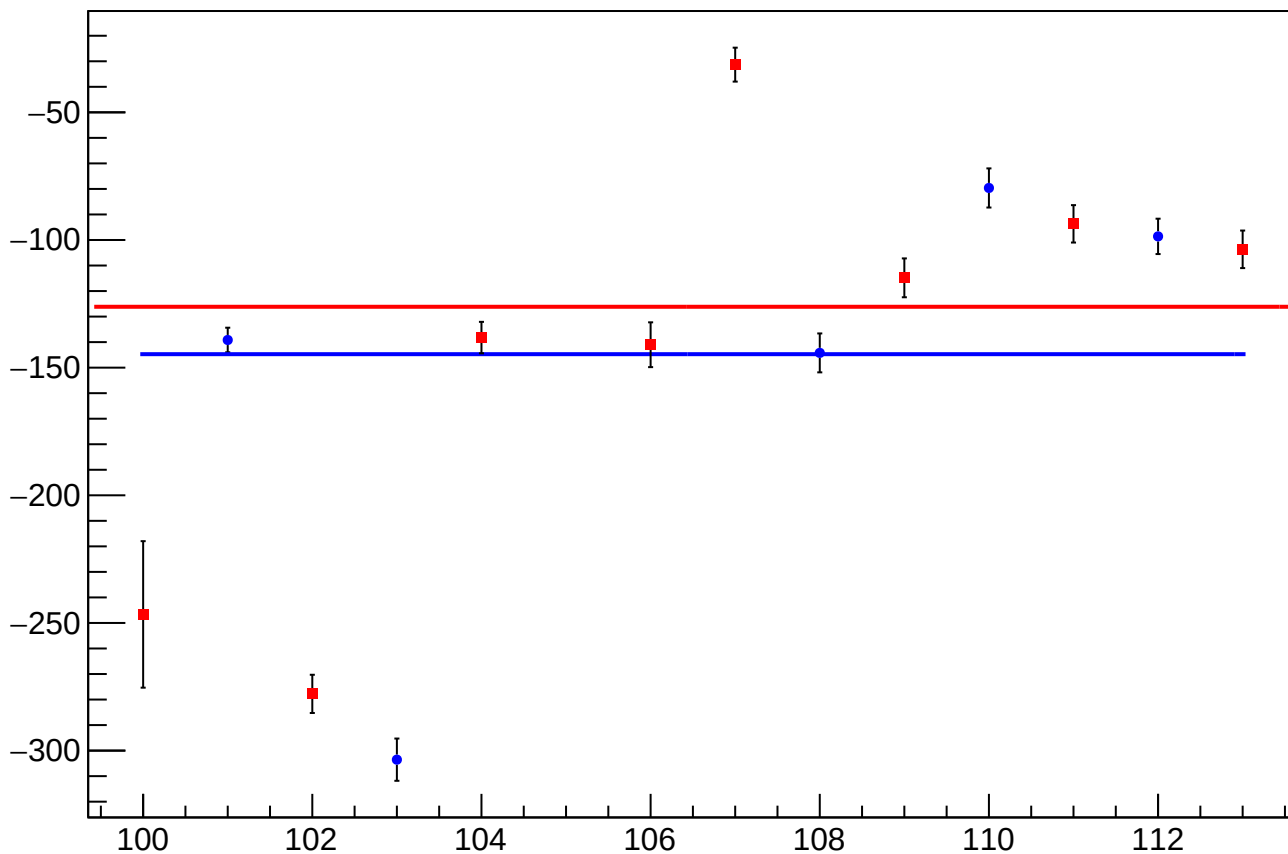
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-34.536 \pm 1.662$   $\chi^2/\text{NDF}$ : 355.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_diff\_bpm4aY\_slope vs Slug



Right In: -144.723+/-2.977  $\chi^2/\text{NDF}$ : 486.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -126.156+/-2.717  $\chi^2/\text{NDF}$ : 669.6/7

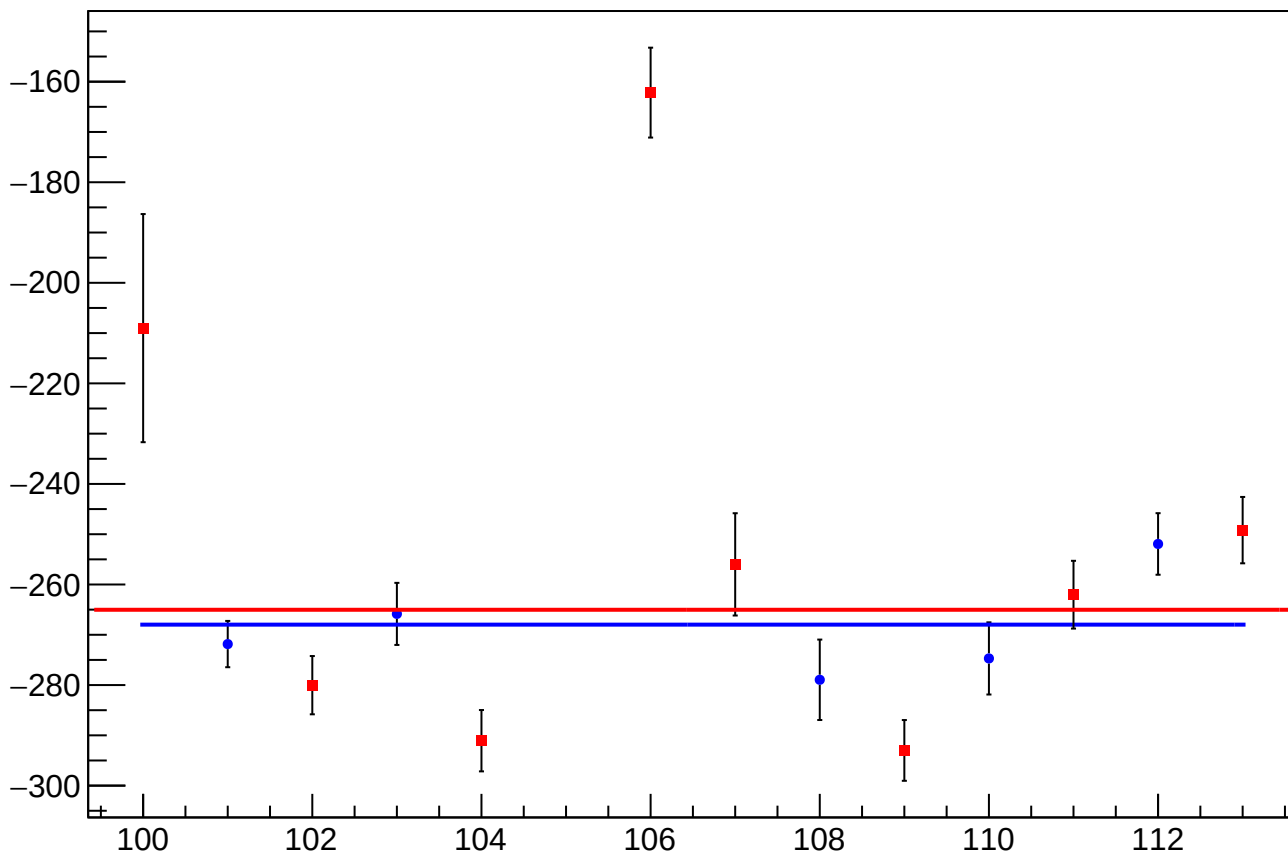
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -134.595+/-2.007  $\chi^2/\text{NDF}$ : 1177.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug



Right In:  $-267.983 \pm 2.720$   $\chi^2/\text{NDF}: 10.5/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-265.027 \pm 2.555$   $\chi^2/\text{NDF}: 191.6/7$

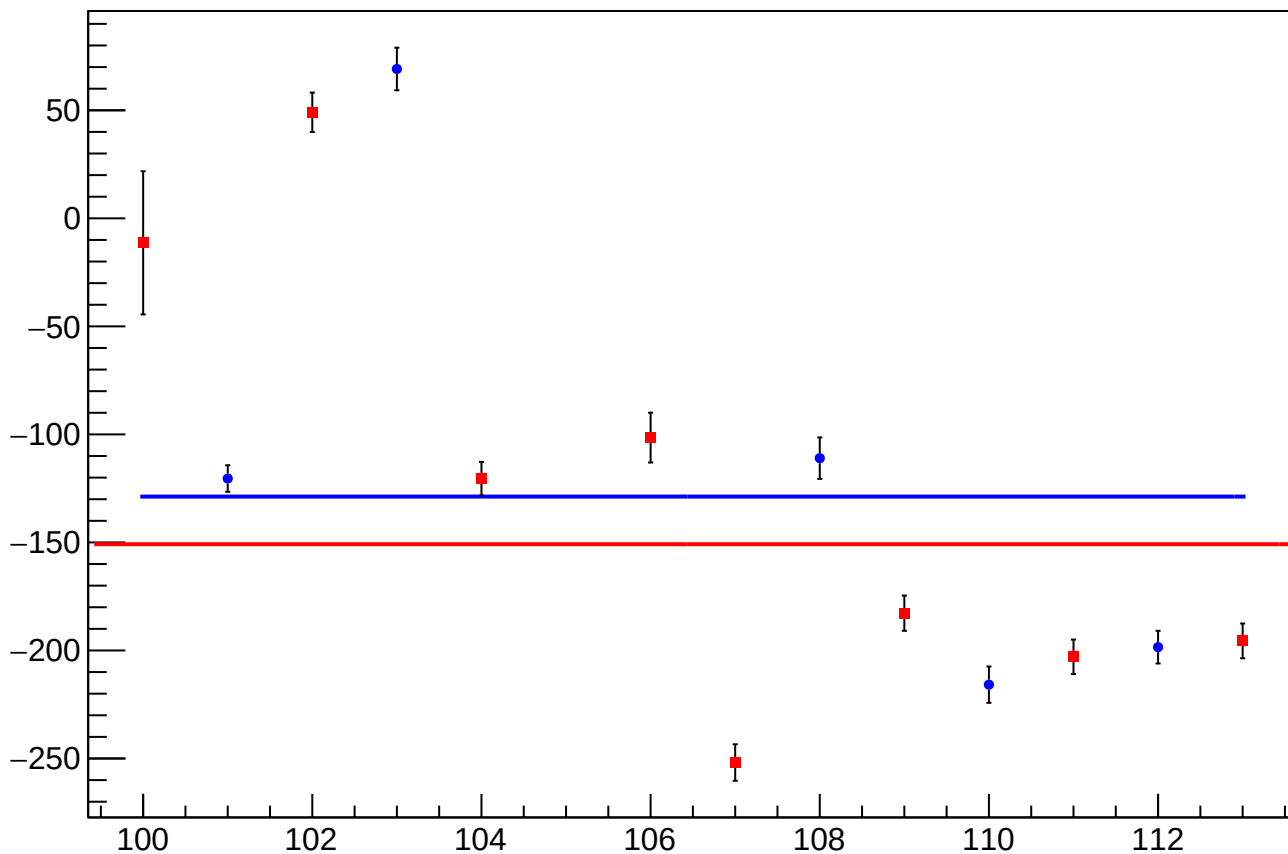
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-266.413 \pm 1.862$   $\chi^2/\text{NDF}: 202.7/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug



Right In: -128.778+/-3.549  $\chi^2/\text{NDF}$ : 600.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -150.829+/-3.208  $\chi^2/\text{NDF}$ : 763.4/7

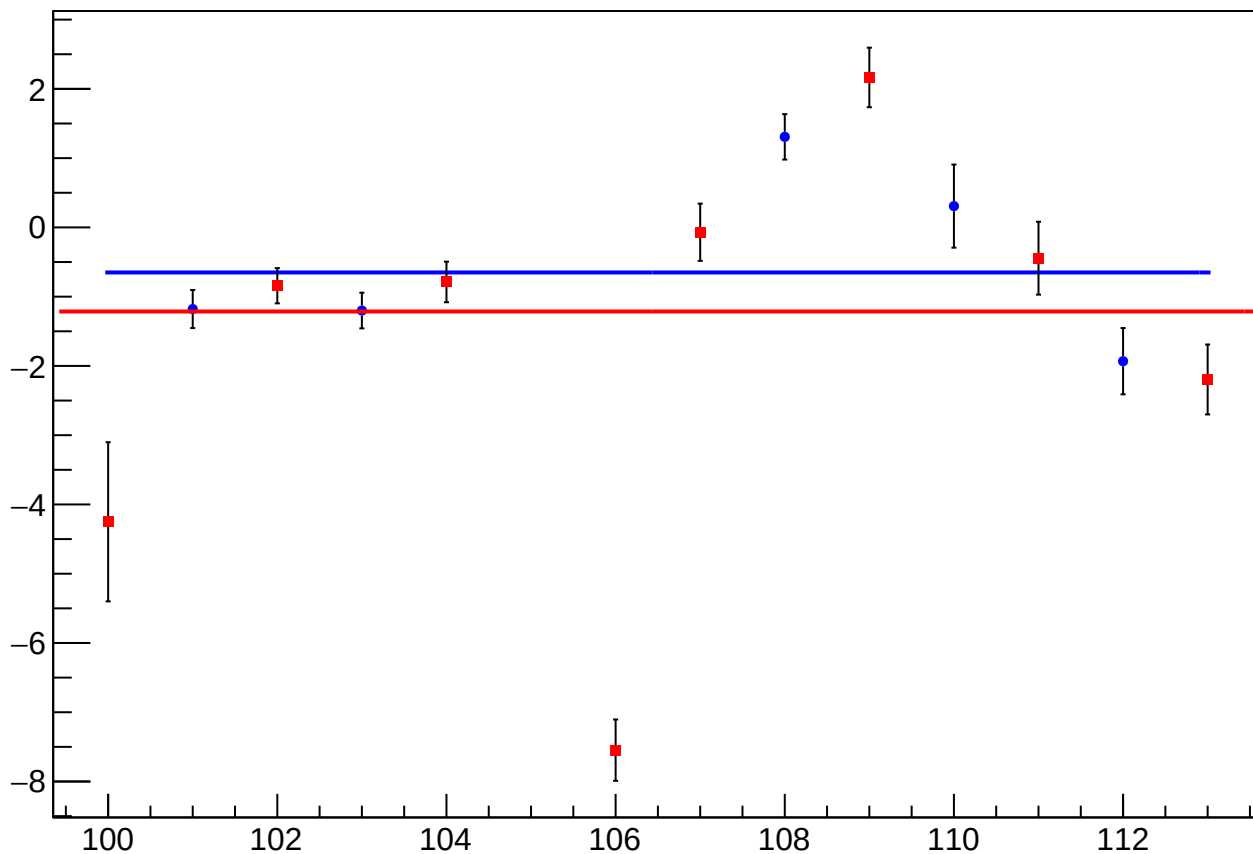
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -140.913+/-2.380  $\chi^2/\text{NDF}$ : 1385.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.651 \pm 0.149$   $\chi^2/\text{NDF}$ : 53.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.214 \pm 0.139$   $\chi^2/\text{NDF}$ : 291.2/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

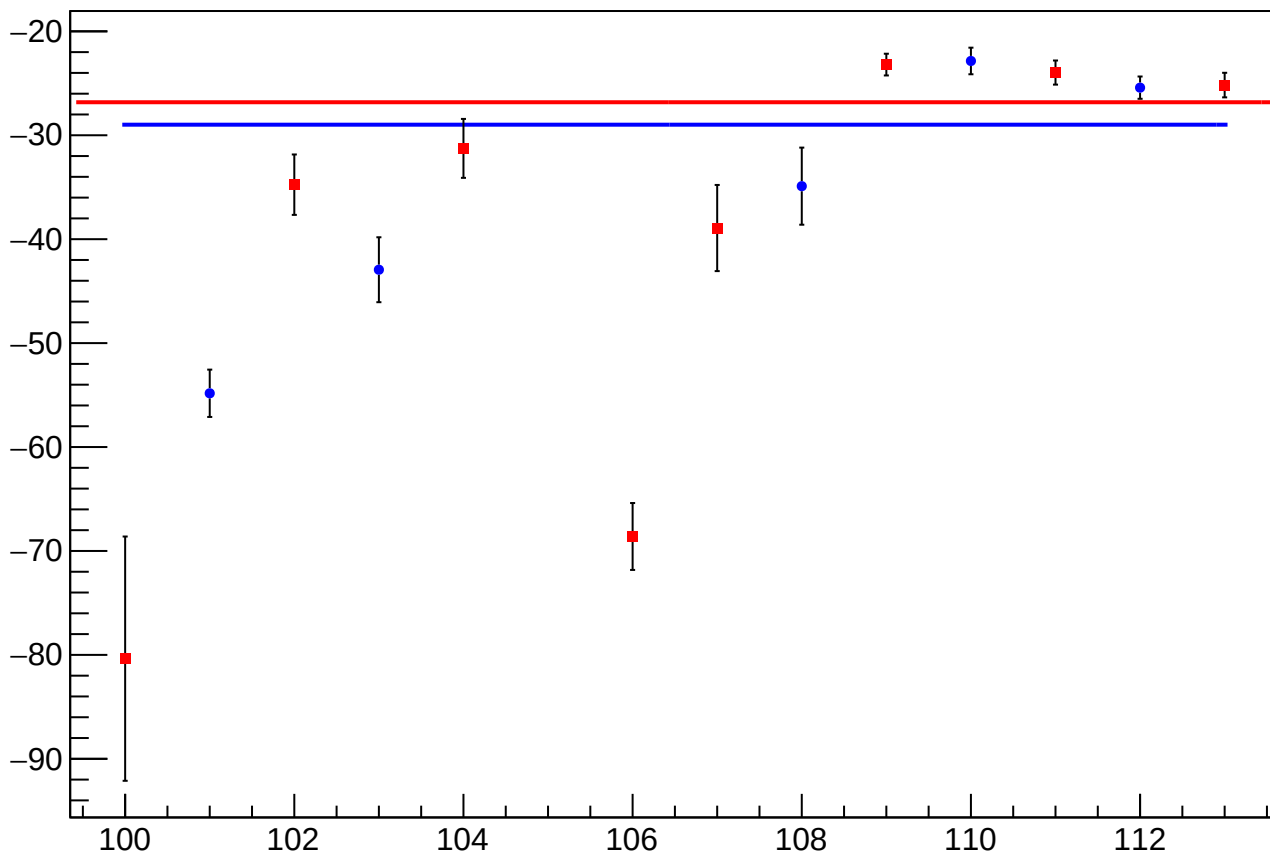
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.953 \pm 0.102$   $\chi^2/\text{NDF}$ : 352.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug



Right In:  $-28.983 \pm 0.736$   $\chi^2/\text{NDF}$ : 185.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-26.823 \pm 0.600$   $\chi^2/\text{NDF}$ : 227.7/7

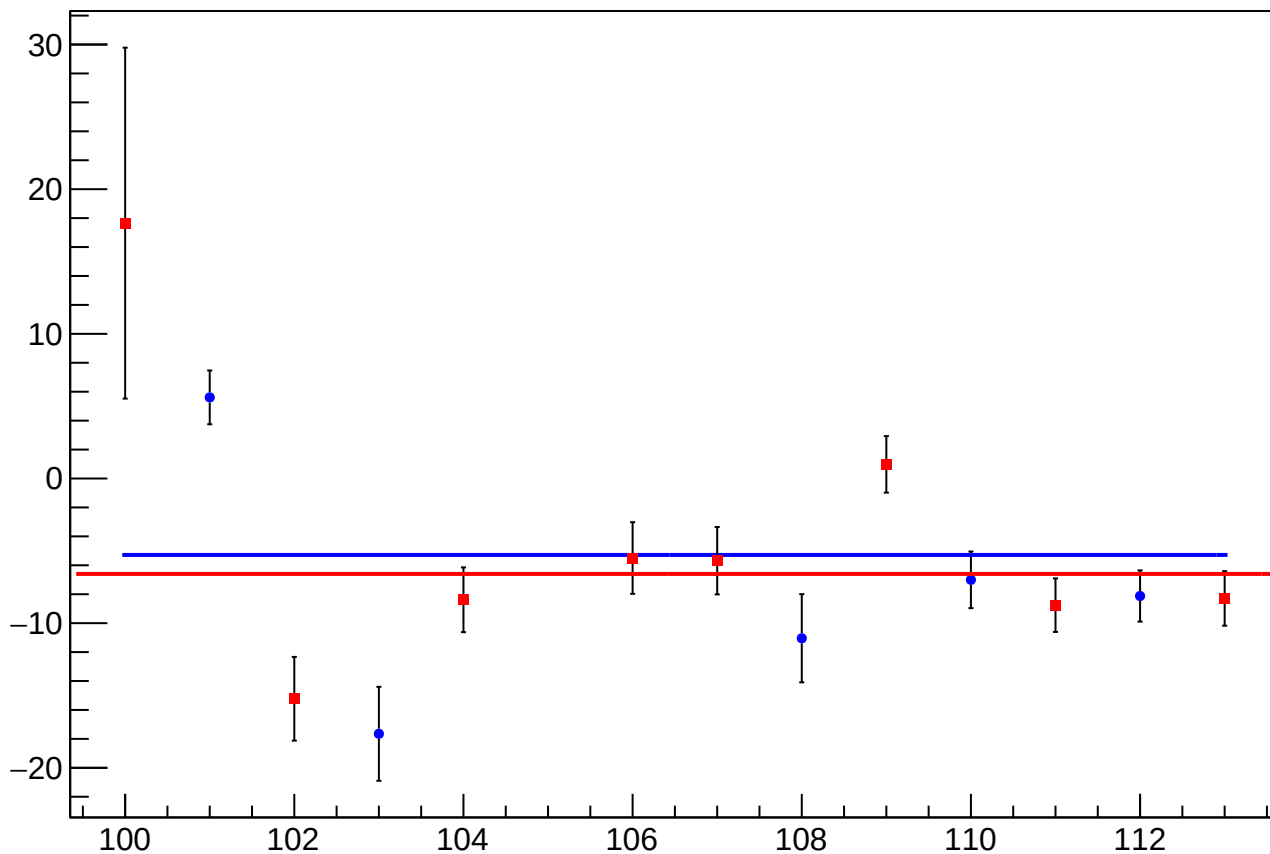
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-27.686 \pm 0.465$   $\chi^2/\text{NDF}$ : 418.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_diff\_bpm4aY\_slope vs Slug



Right In:  $-5.283 \pm 0.966$   $\chi^2/\text{NDF}: 55.7/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-6.597 \pm 0.814$   $\chi^2/\text{NDF}: 31.1/7$

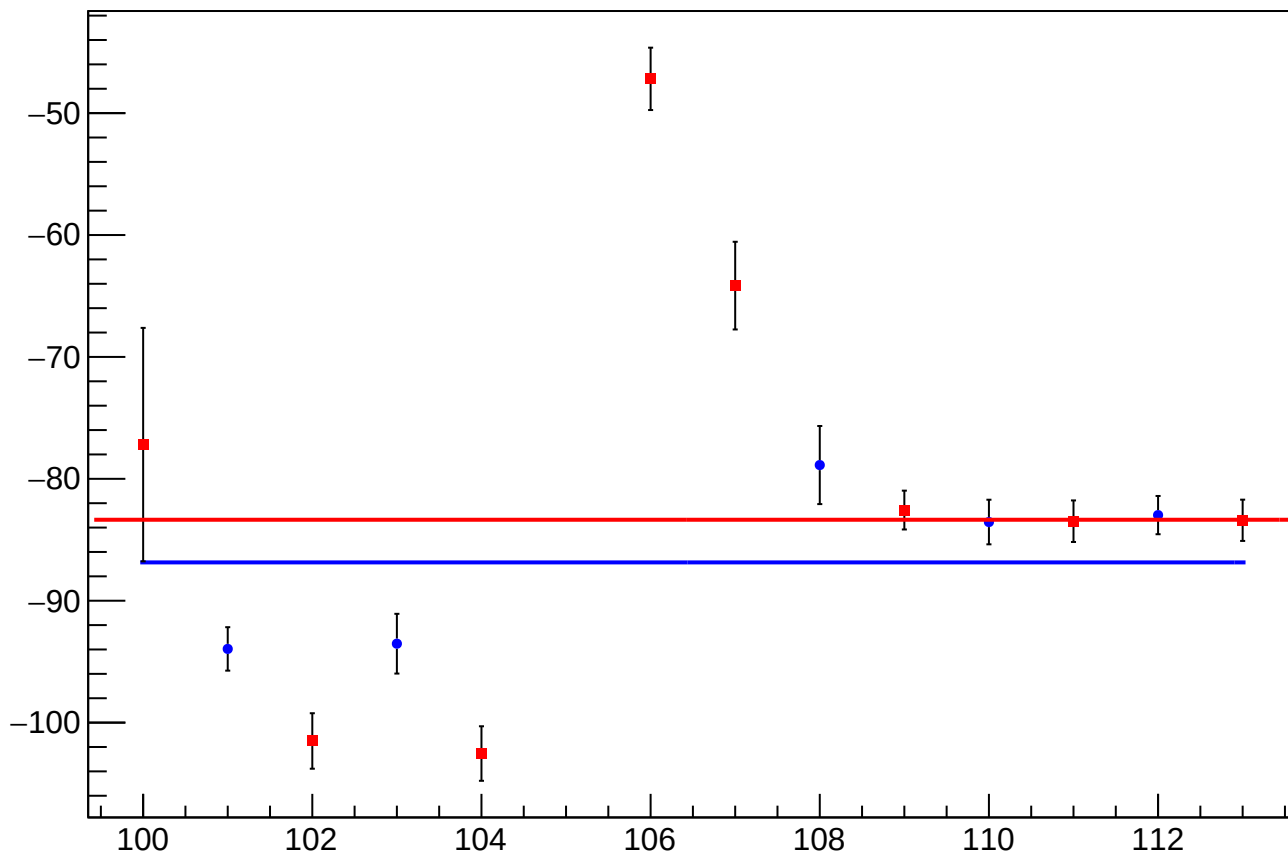
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-6.051 \pm 0.623$   $\chi^2/\text{NDF}: 87.8/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug



Right In: -86.857 $\pm$ 0.883  $\chi^2$ /NDF: 38.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -83.358 $\pm$ 0.762  $\chi^2$ /NDF: 366.2/7

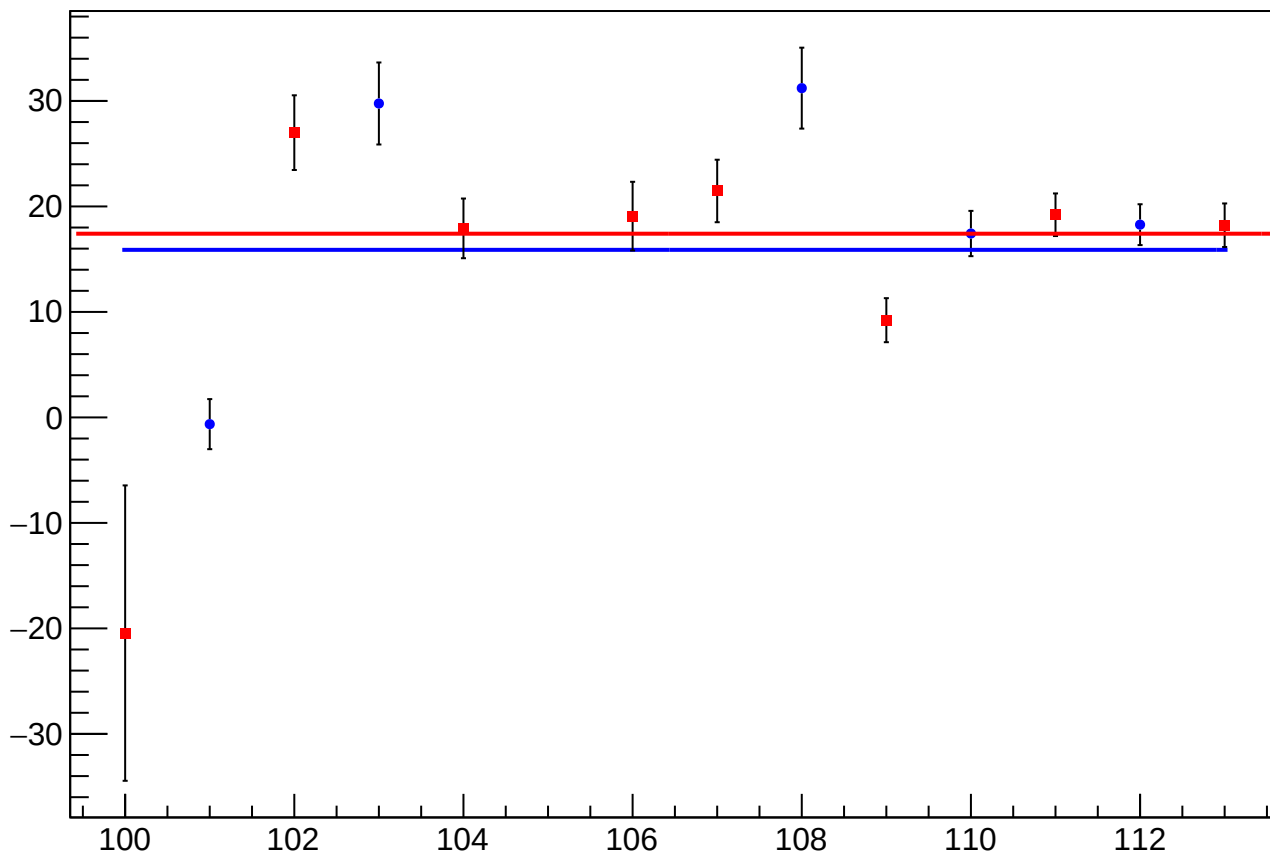
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -84.852 $\pm$ 0.577  $\chi^2$ /NDF: 414.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug



Right In: 15.886 $\pm$ 1.121  $\chi^2$ /NDF: 79.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.415 $\pm$ 0.942  $\chi^2$ /NDF: 33.2/7

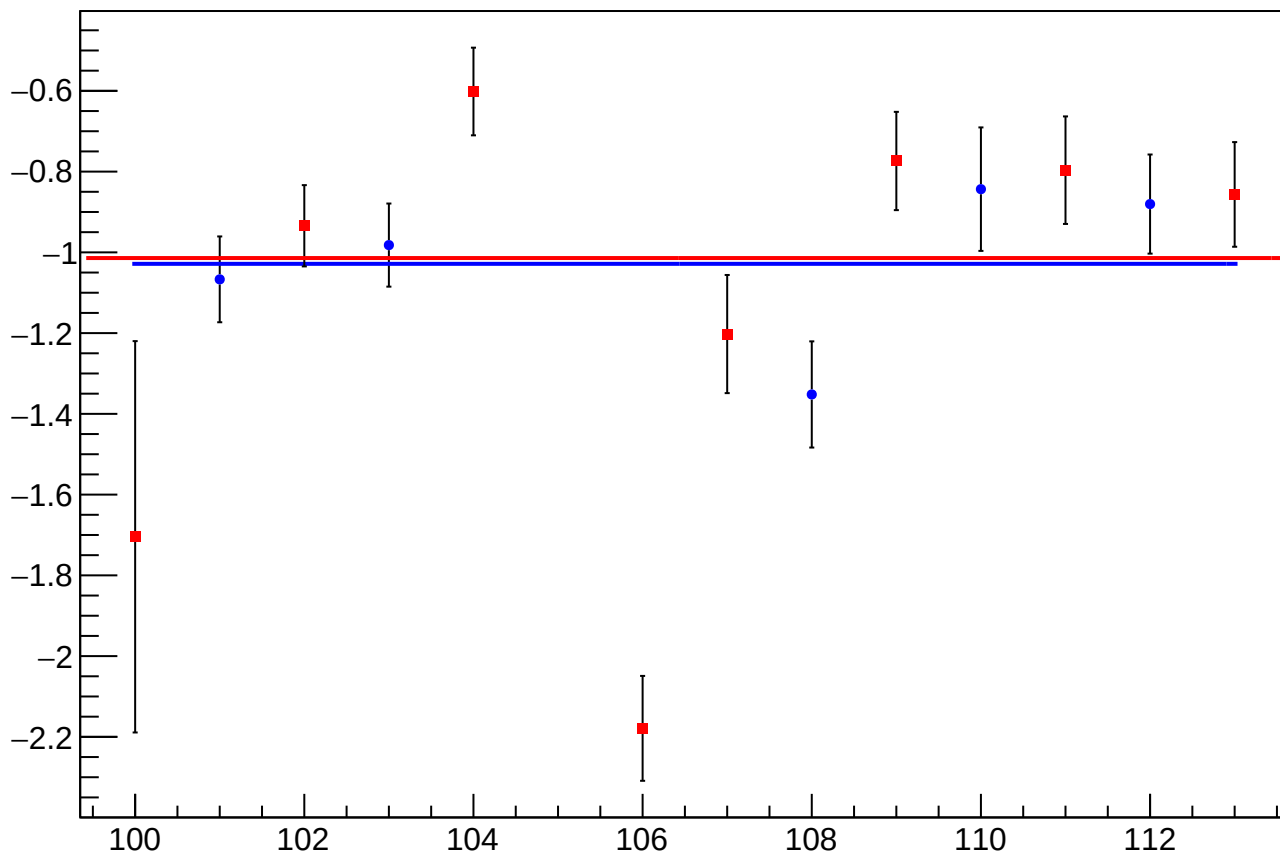
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.782 $\pm$ 0.721  $\chi^2$ /NDF: 113.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug



Right In: -1.028+/-0.053  $\chi^2/\text{NDF}$ : 9.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.014+/-0.046  $\chi^2/\text{NDF}$ : 107.2/7

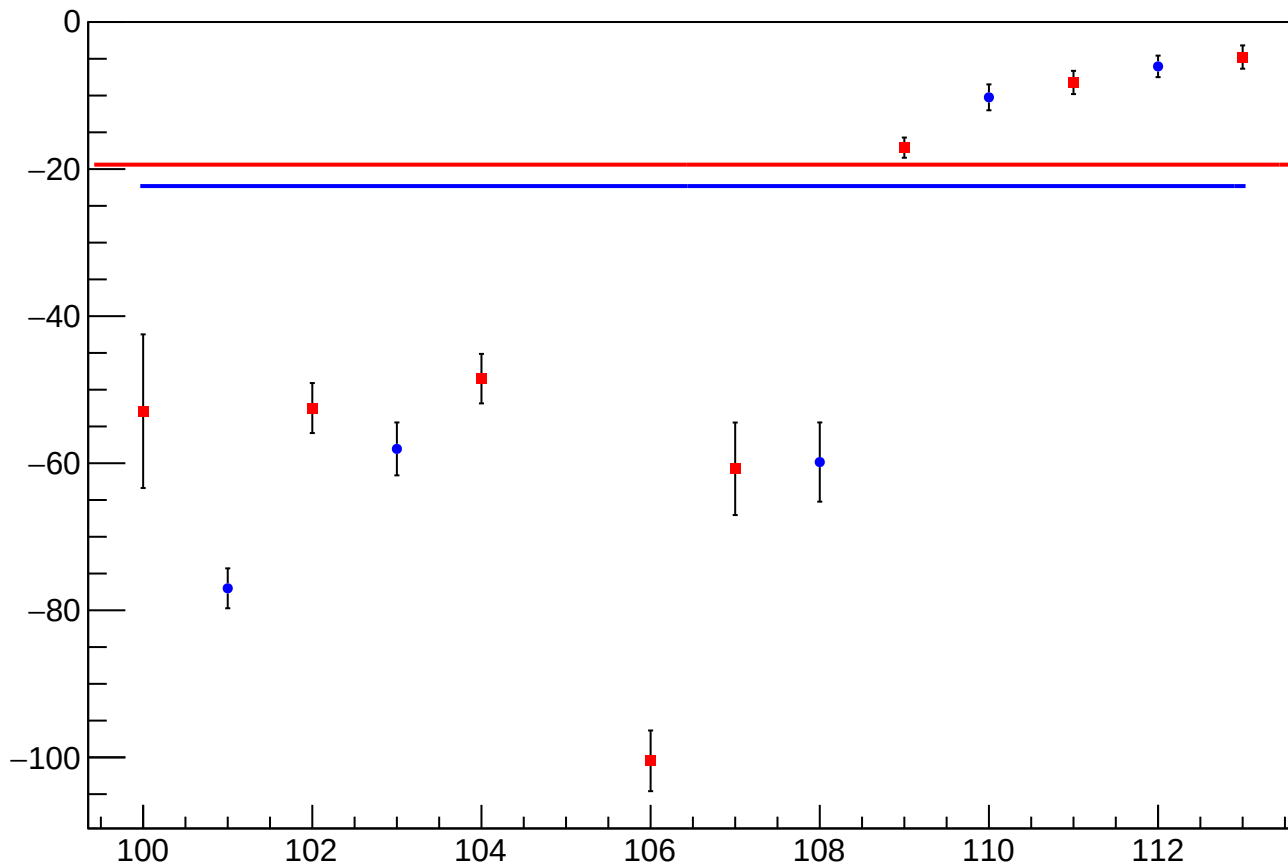
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.020+/-0.035  $\chi^2/\text{NDF}$ : 116.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug



Right In: -22.310+/-0.982  $\chi^2/\text{NDF}$ : 724.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -19.398+/-0.791  $\chi^2/\text{NDF}$ : 747.5/7

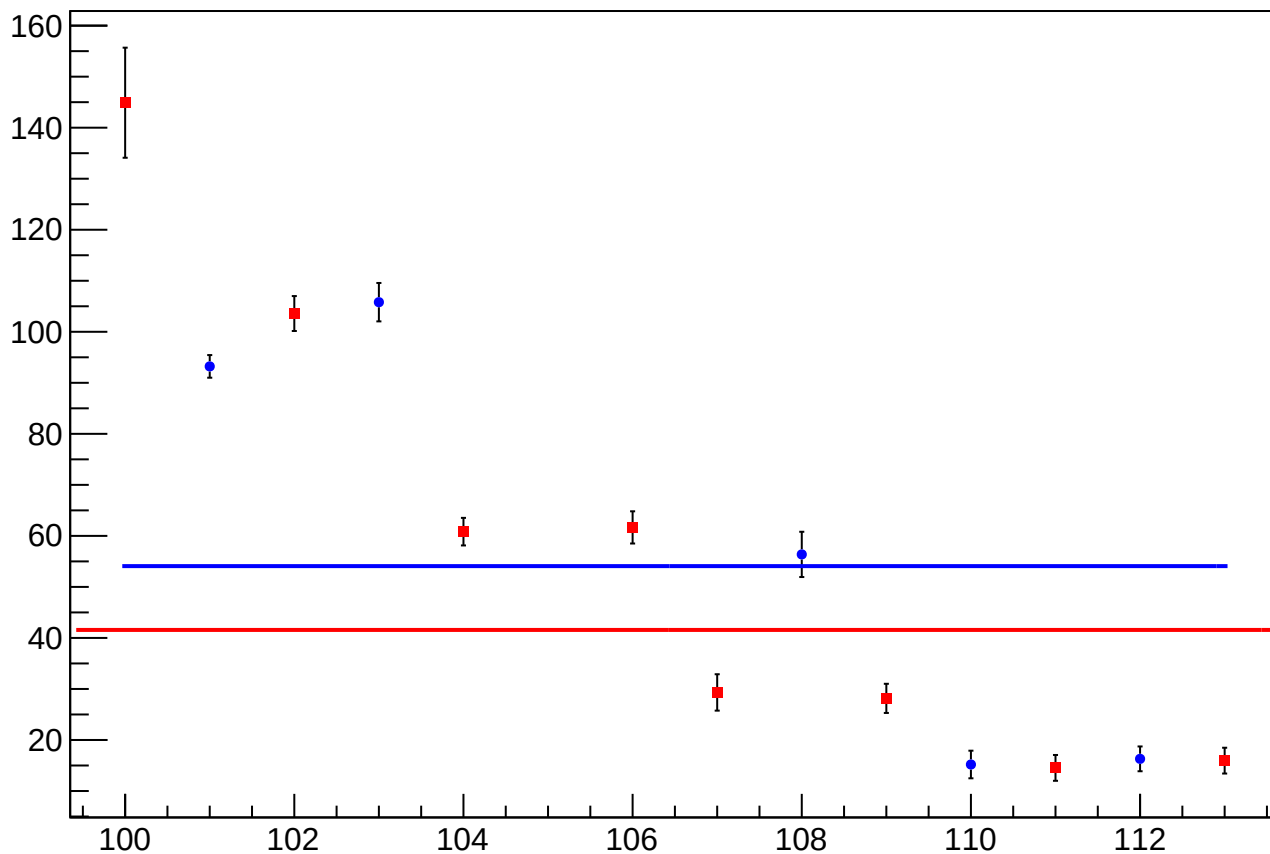
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -20.544+/-0.616  $\chi^2/\text{NDF}$ : 1476.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug



Right In: 54.075+/-1.259  $\chi^2/\text{NDF}$ : 948.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 41.568+/-1.088  $\chi^2/\text{NDF}$ : 762.3/7

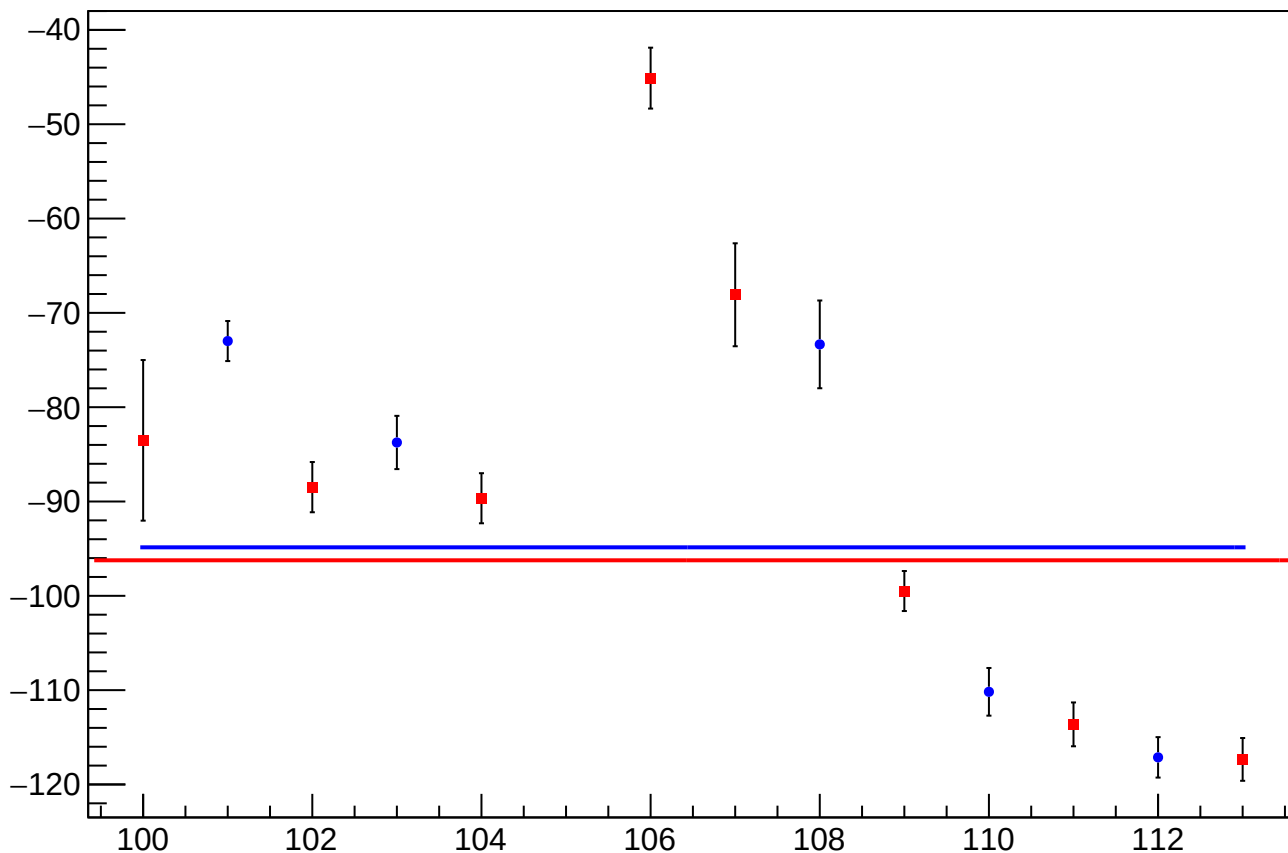
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.912+/-0.823  $\chi^2/\text{NDF}$ : 1767.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug



Right In: -94.858 $\pm$ 1.141  $\chi^2$ /NDF: 287.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -96.234 $\pm$ 0.986  $\chi^2$ /NDF: 439.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

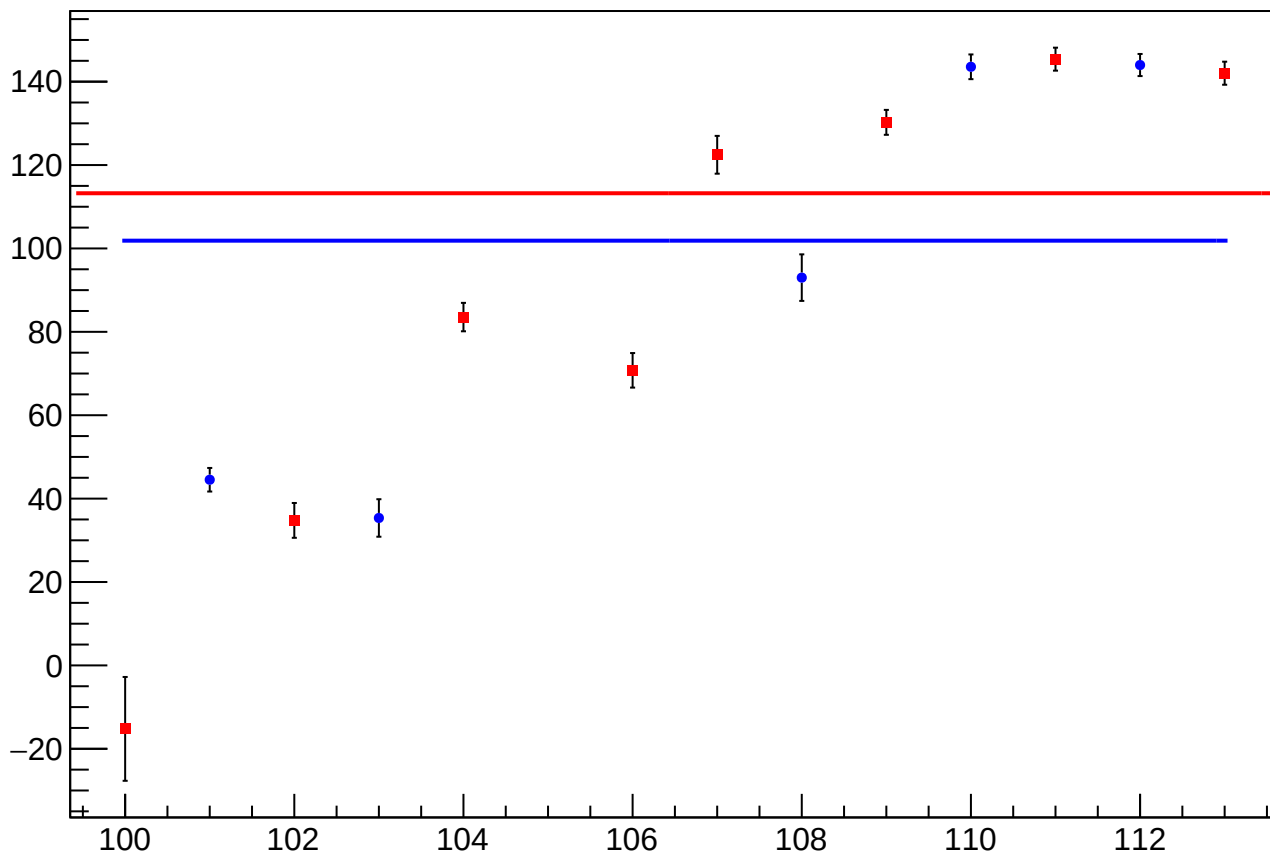
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -95.646 $\pm$ 0.746  $\chi^2$ /NDF: 727.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug



Right In: 101.864 $\pm$ 1.470  $\chi^2$ /NDF: 1082.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 113.236 $\pm$ 1.259  $\chi^2$ /NDF: 921.5/7

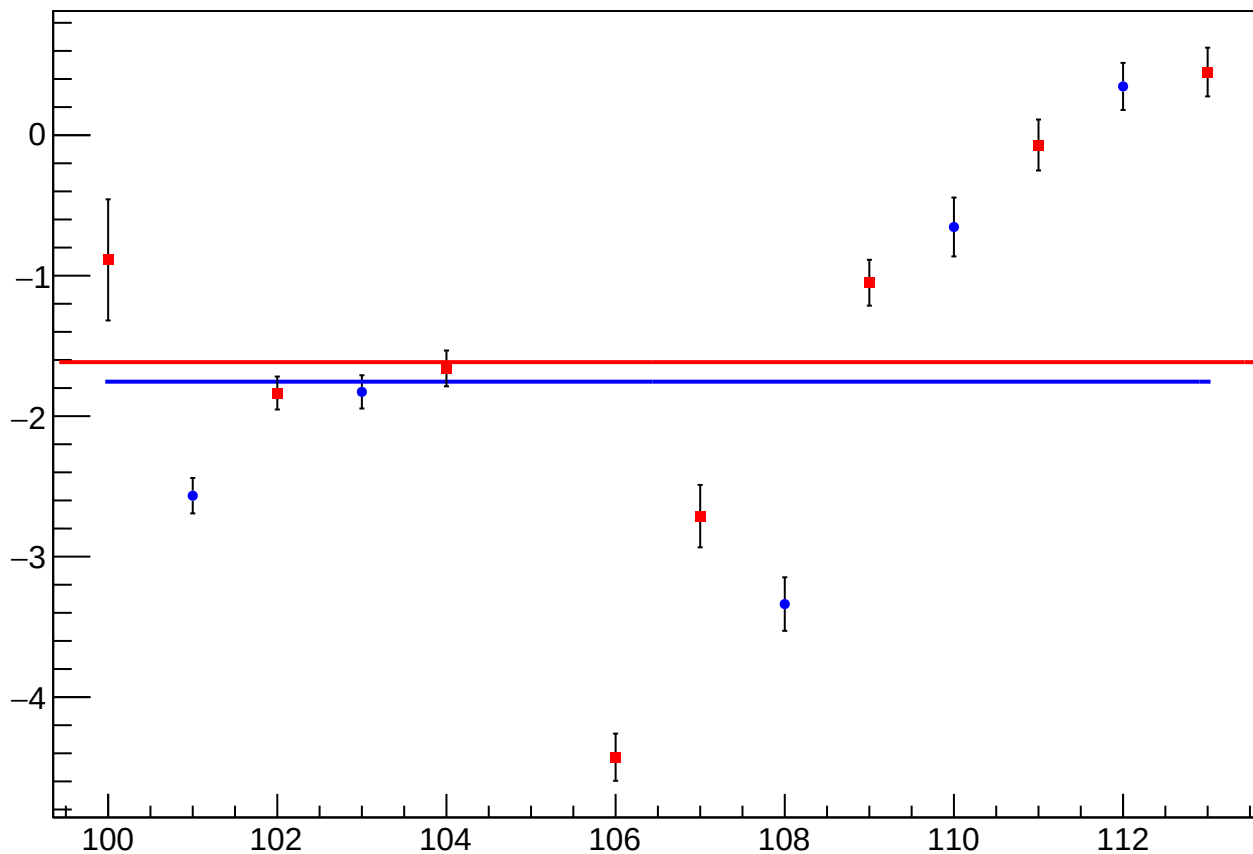
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 108.426 $\pm$ 0.956  $\chi^2$ /NDF: 2038.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug



Right In:  $-1.755 \pm 0.067$   $\chi^2/\text{NDF}$ : 295.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.615 \pm 0.058$   $\chi^2/\text{NDF}$ : 537.6/7

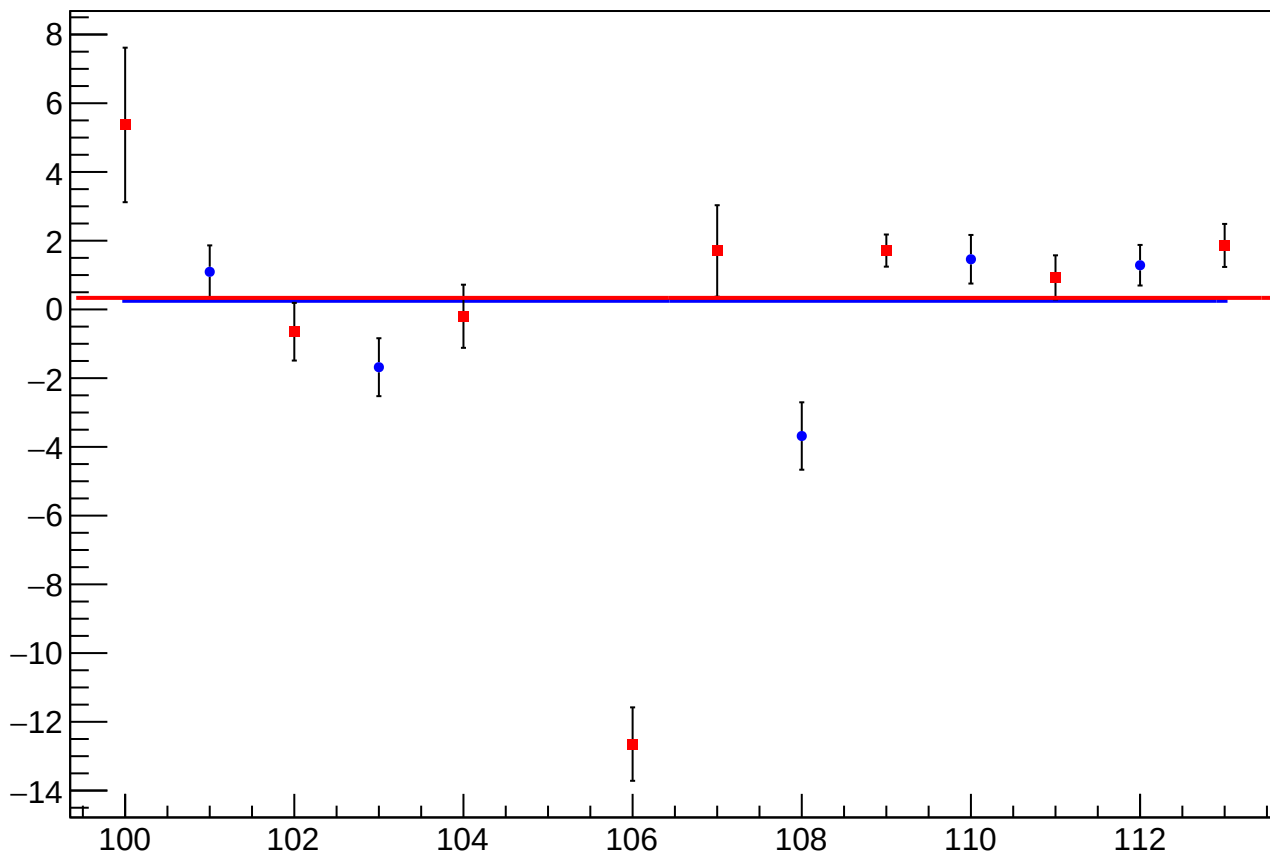
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.675 \pm 0.044$   $\chi^2/\text{NDF}$ : 835.6/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_diff\_bpm1X\_slope vs Slug



Right In: 0.251 $\pm$ 0.333  $\chi^2$ /NDF: 28.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.336 $\pm$ 0.269  $\chi^2$ /NDF: 170.9/7

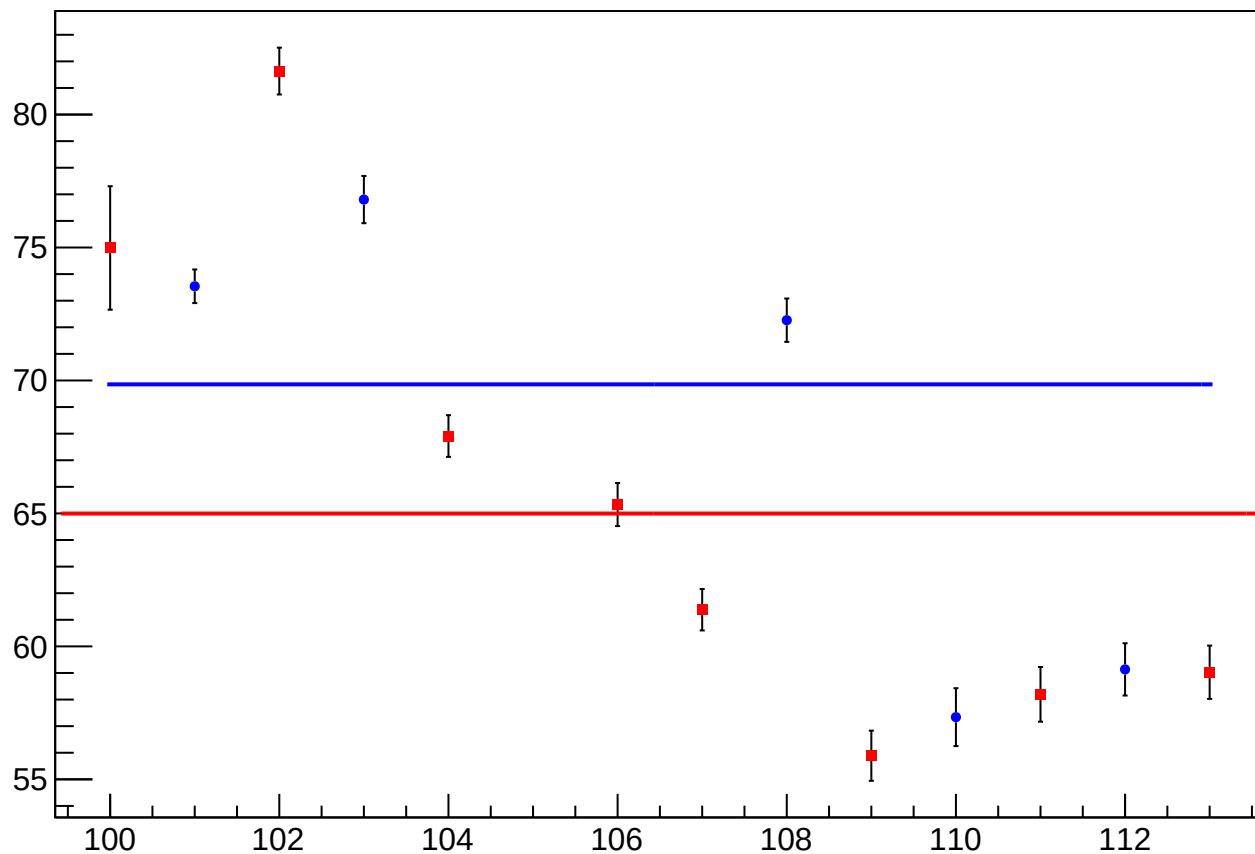
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.302 $\pm$ 0.209  $\chi^2$ /NDF: 199.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug



Right In: 69.854 $\pm$ 0.374  $\chi^2$ /NDF: 355.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 64.995 $\pm$ 0.327  $\chi^2$ /NDF: 584.0/7

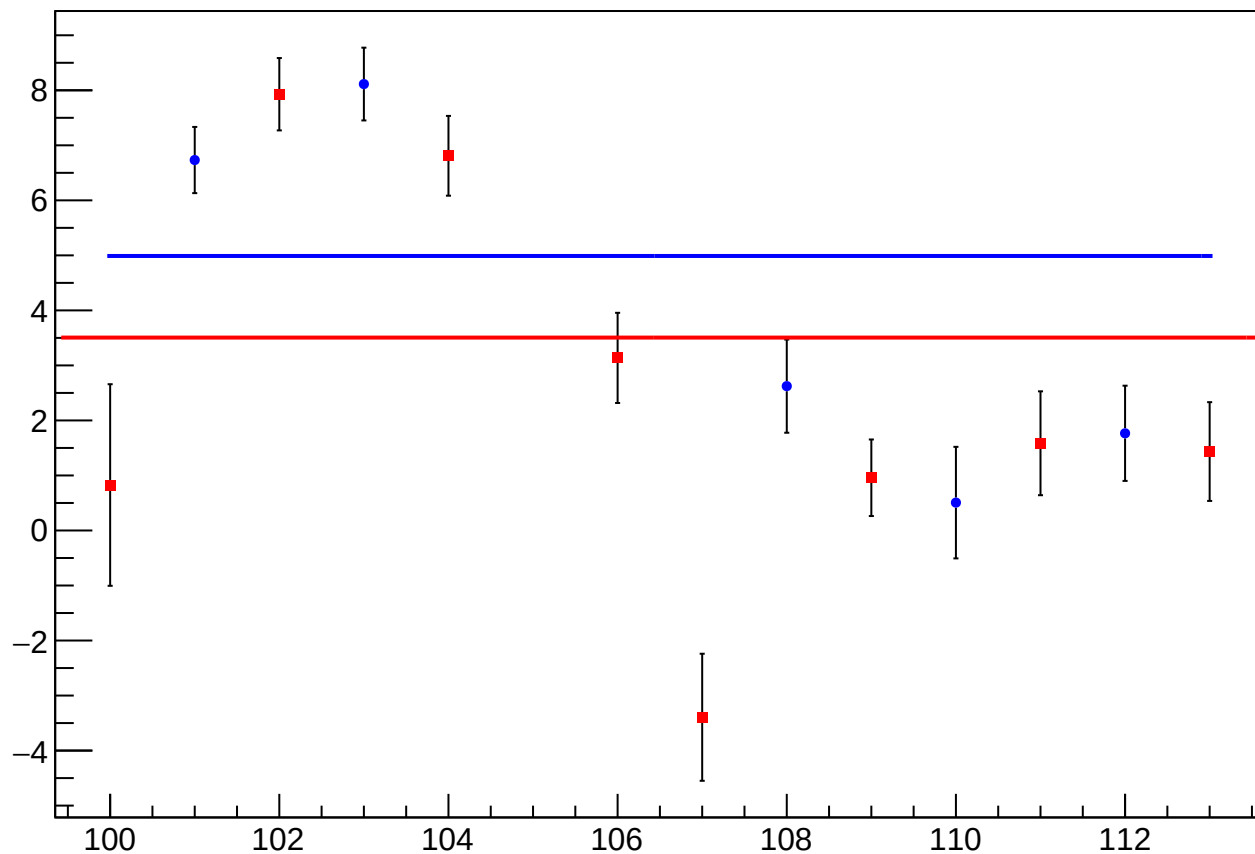
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 67.102 $\pm$ 0.246  $\chi^2$ /NDF: 1034.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug



Right In: 4.989 $\pm$ 0.338  $\chi^2$ /NDF: 71.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.506 $\pm$ 0.299  $\chi^2$ /NDF: 127.0/7

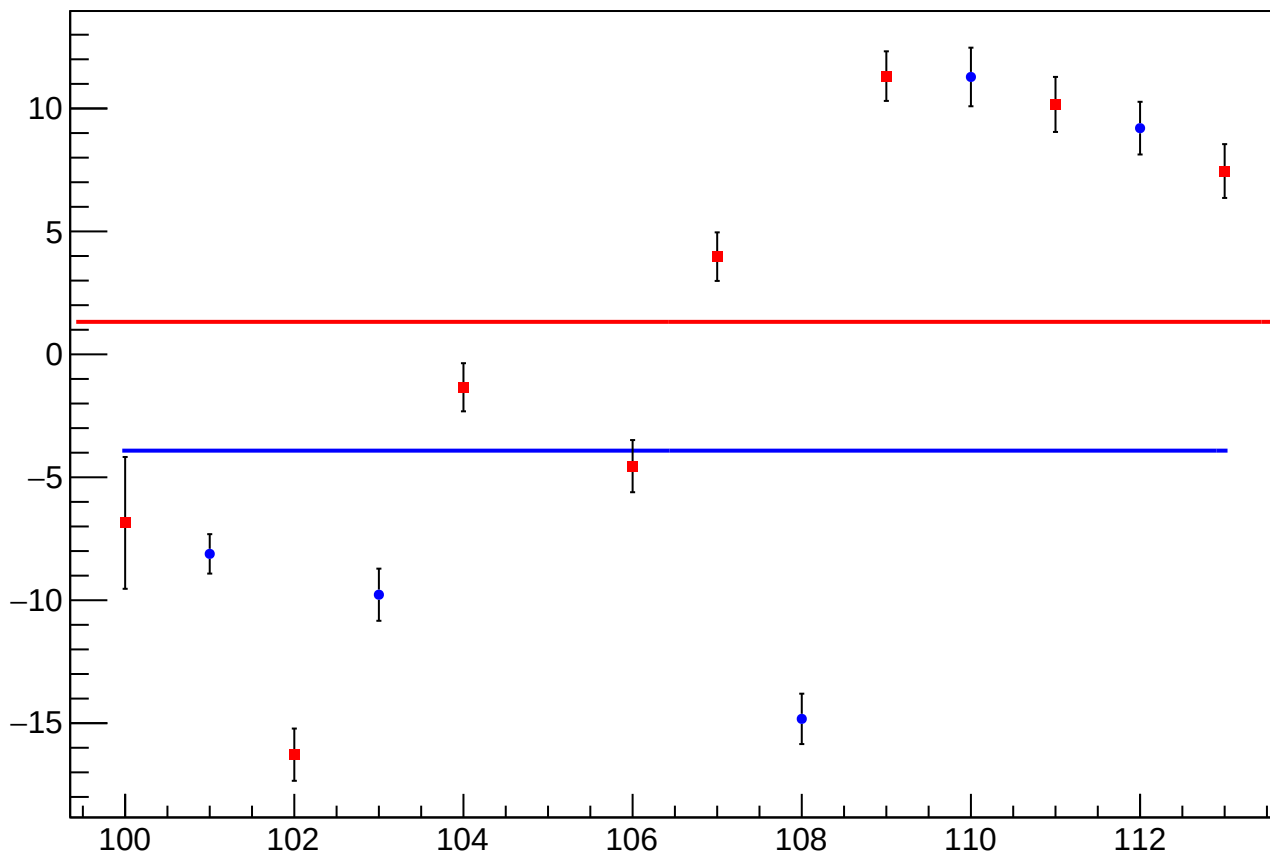
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.157 $\pm$ 0.224  $\chi^2$ /NDF: 209.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug



Right In:  $-3.916 \pm 0.448$   $\chi^2/\text{NDF}$ : 484.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1.322 \pm 0.389$   $\chi^2/\text{NDF}$ : 521.0/7

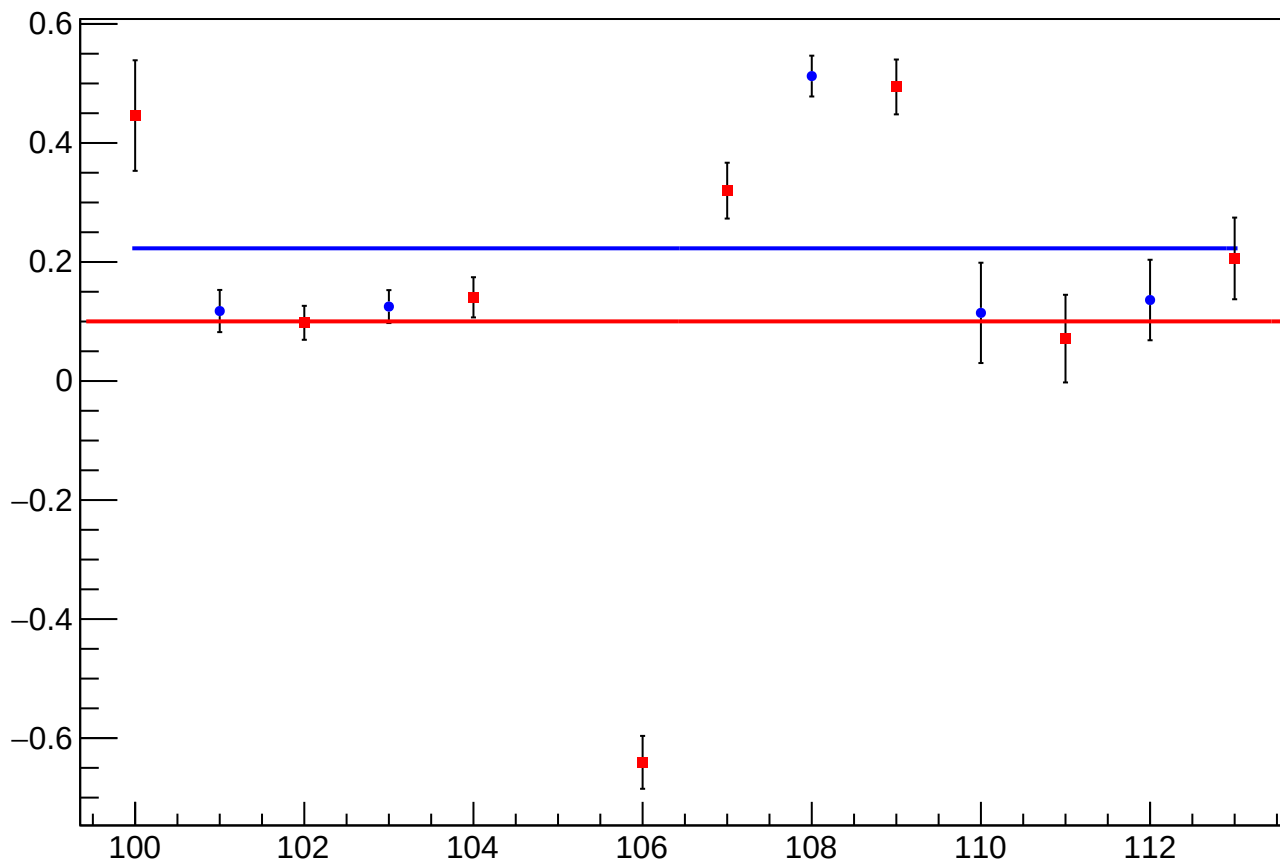
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.929 \pm 0.294$   $\chi^2/\text{NDF}$ : 1082.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug



Right In: 0.223 $\pm$ 0.017  $\chi^2$ /NDF: 95.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.100 $\pm$ 0.016  $\chi^2$ /NDF: 390.7/7

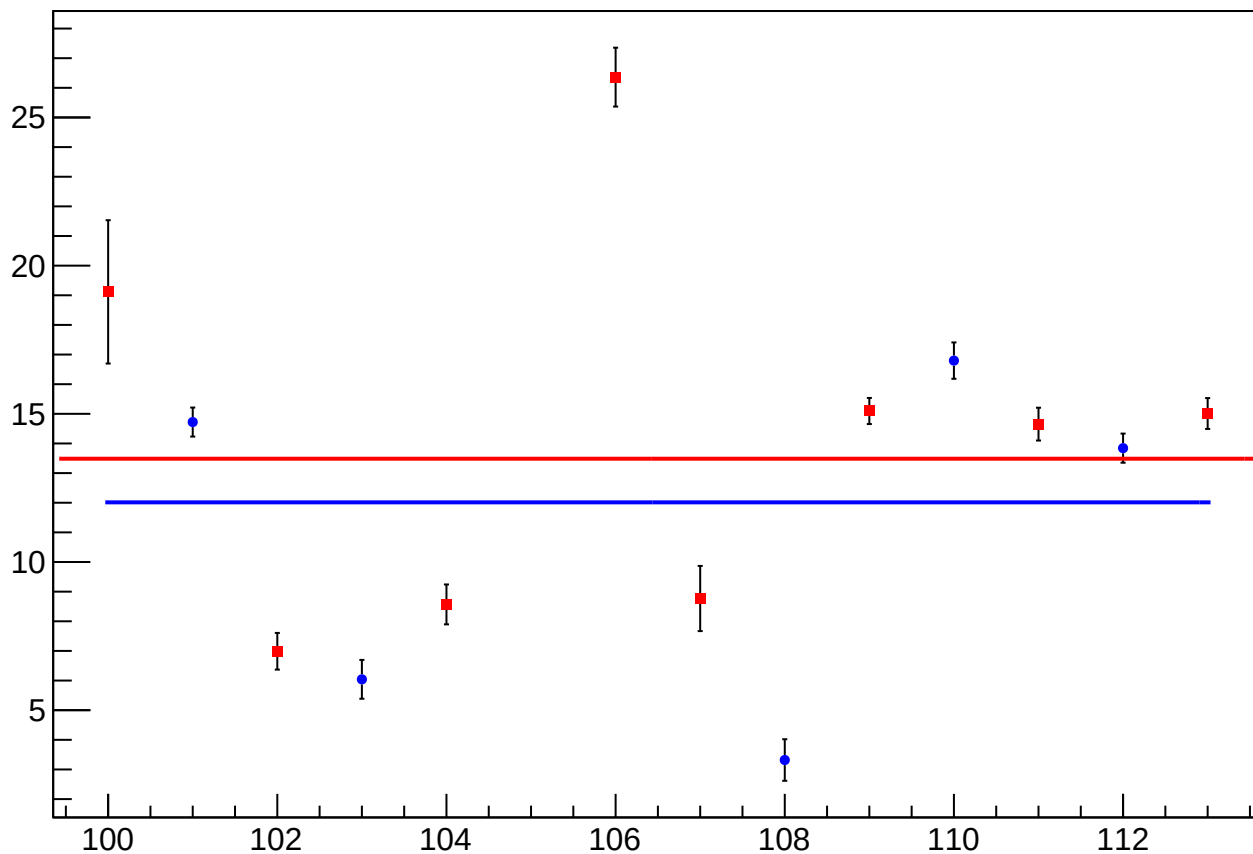
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.155 $\pm$ 0.012  $\chi^2$ /NDF: 514.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug



Right In: 12.013 $\pm$ 0.255  $\chi^2$ /NDF: 342.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13.485 $\pm$ 0.230  $\chi^2$ /NDF: 381.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

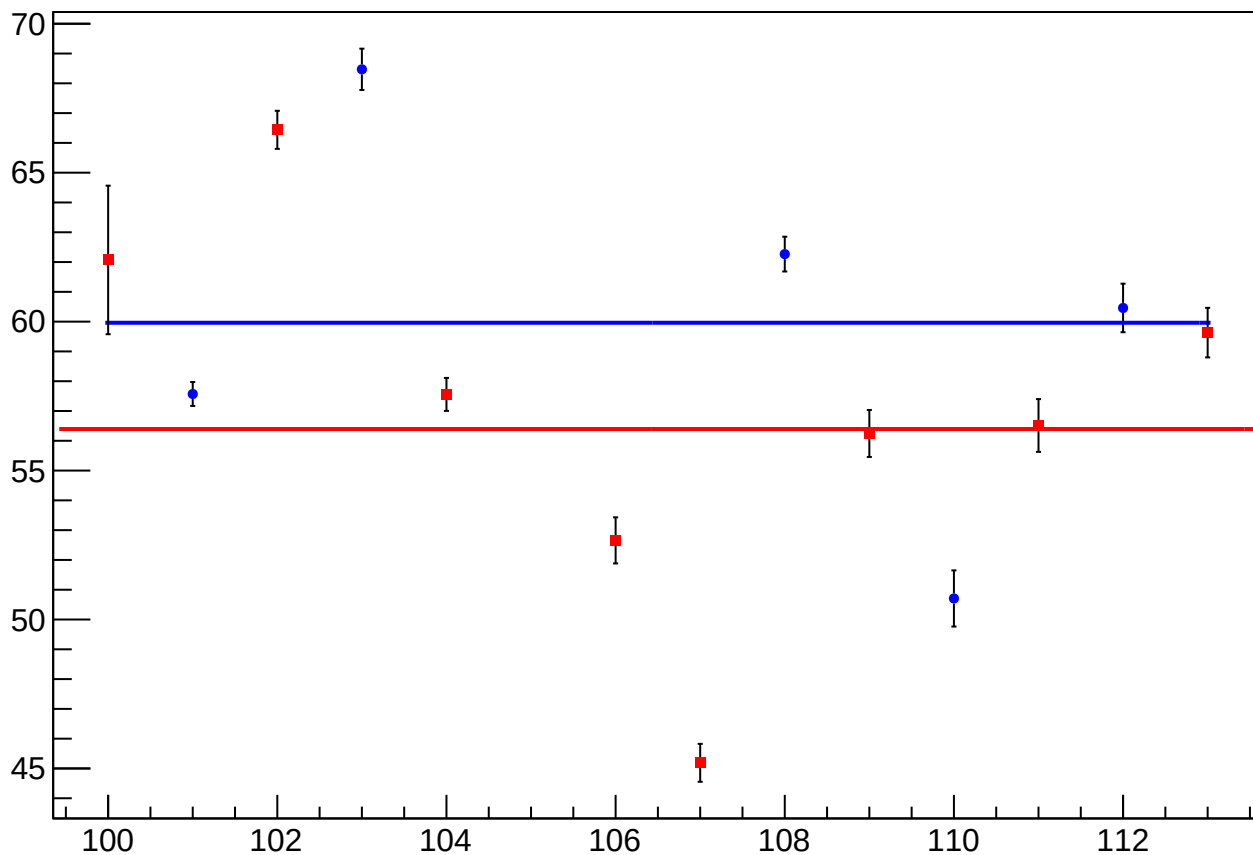
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12.826 $\pm$ 0.171  $\chi^2$ /NDF: 742.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug



Right In: 59.962 $\pm$ 0.269  $\chi^2$ /NDF: 298.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 56.395 $\pm$ 0.264  $\chi^2$ /NDF: 604.6/7

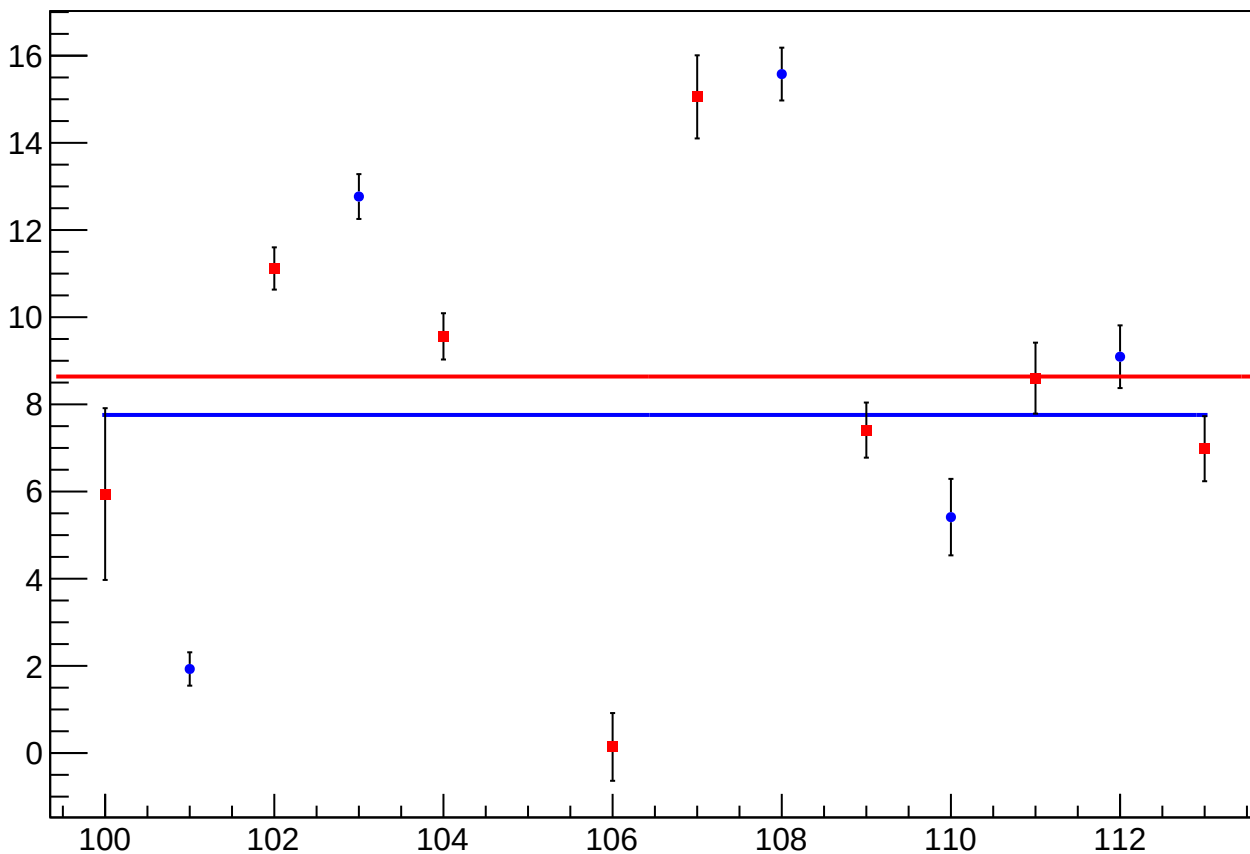
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 58.147 $\pm$ 0.188  $\chi^2$ /NDF: 992.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug



Right In: 7.757 $\pm$ 0.246  $\chi^2$ /NDF: 504.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8.639 $\pm$ 0.245  $\chi^2$ /NDF: 204.6/7

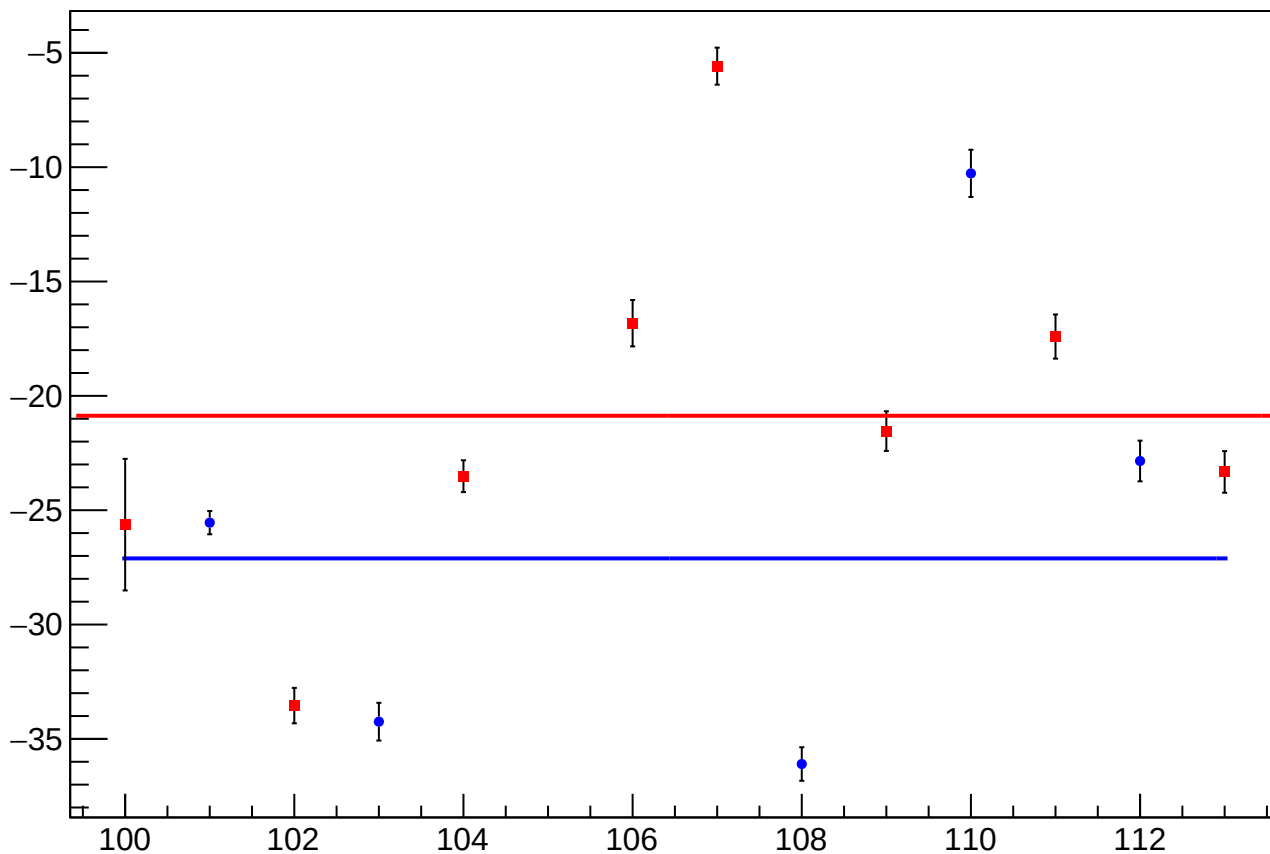
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8.199 $\pm$ 0.174  $\chi^2$ /NDF: 715.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug



Right In:  $-27.108 \pm 0.327$   $\chi^2/\text{NDF}: 522.8/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-20.869 \pm 0.317$   $\chi^2/\text{NDF}: 678.7/7$

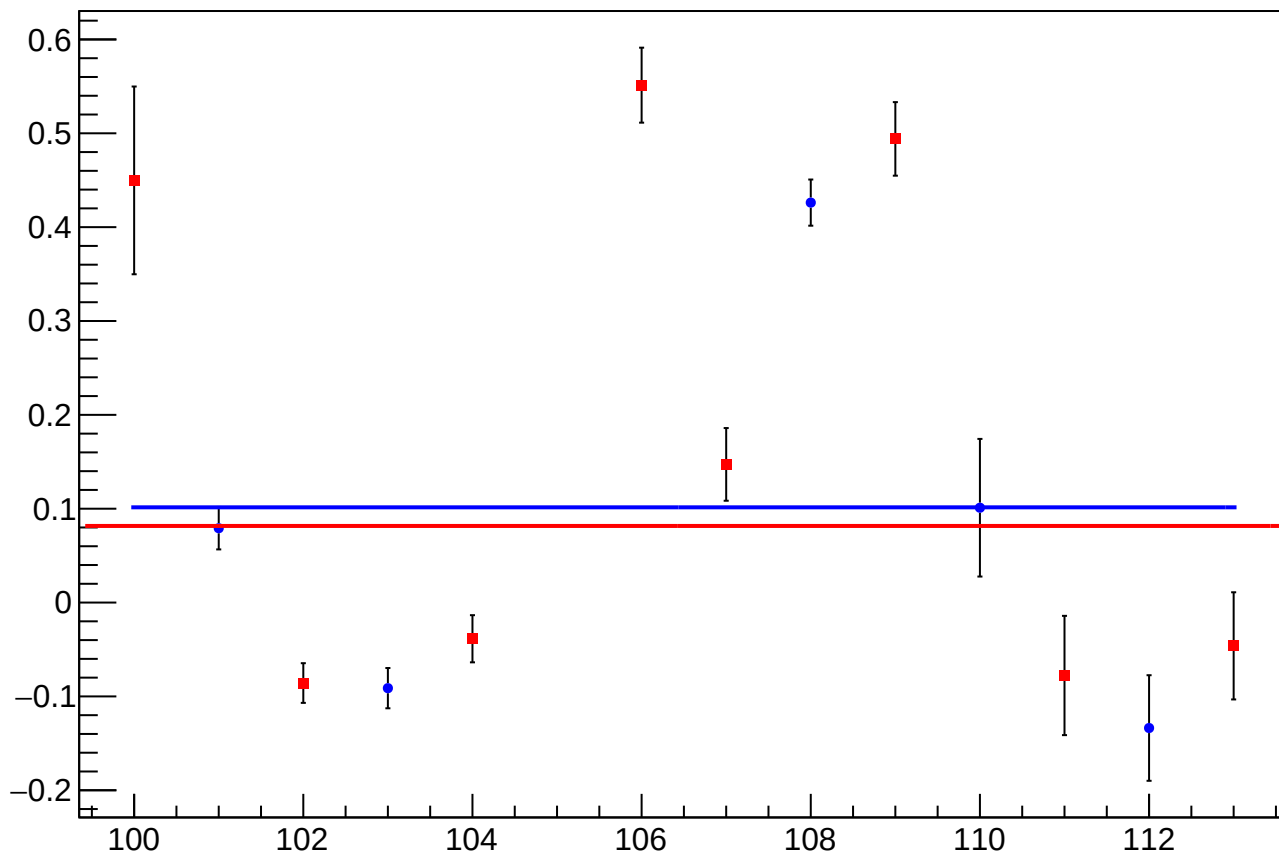
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-23.893 \pm 0.227$   $\chi^2/\text{NDF}: 1389.6/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug



Right In: 0.101 $\pm$ 0.013  $\chi^2$ /NDF: 273.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.082 $\pm$ 0.012  $\chi^2$ /NDF: 362.2/7

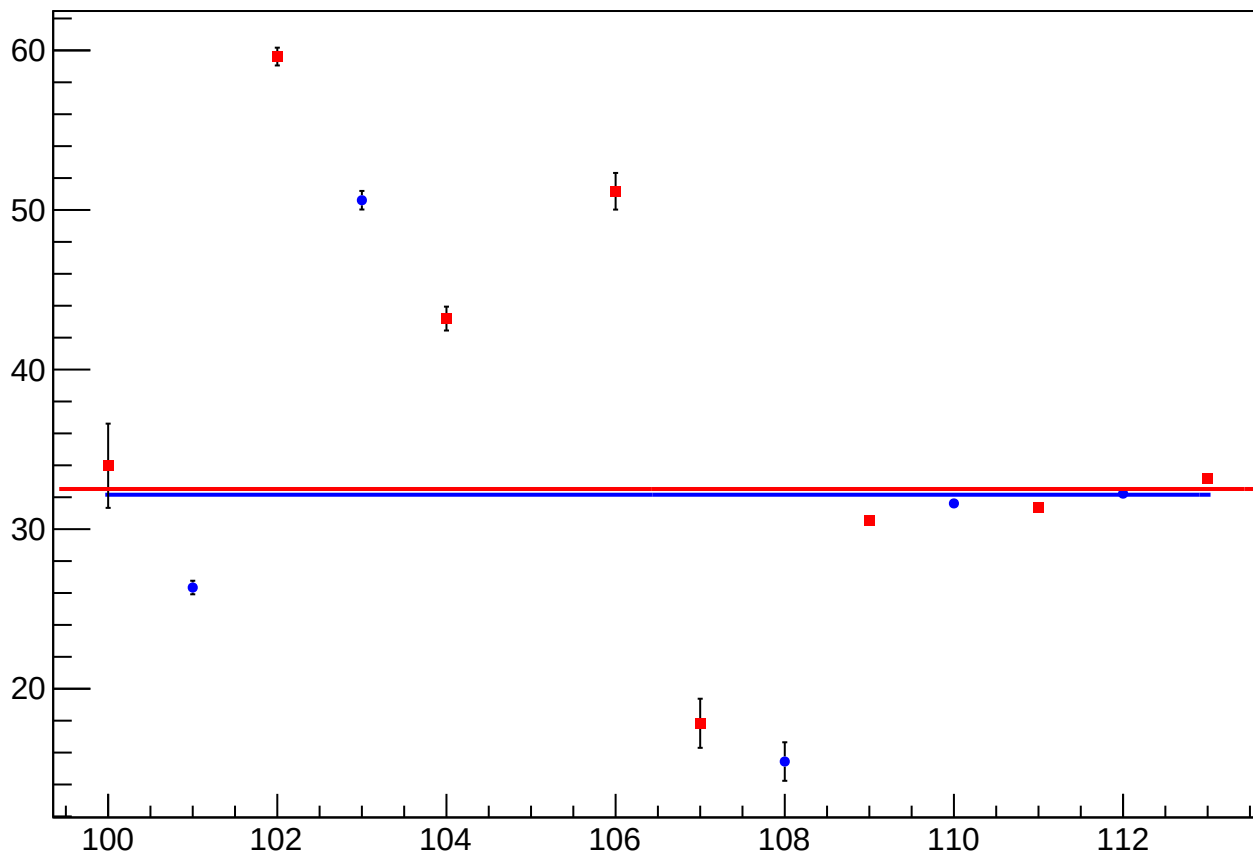
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.091 $\pm$ 0.009  $\chi^2$ /NDF: 636.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug



Right In: 32.157+/-0.117  $\chi^2/\text{NDF}$ : 1391.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 32.517+/-0.091  $\chi^2/\text{NDF}$ : 3169.4/7

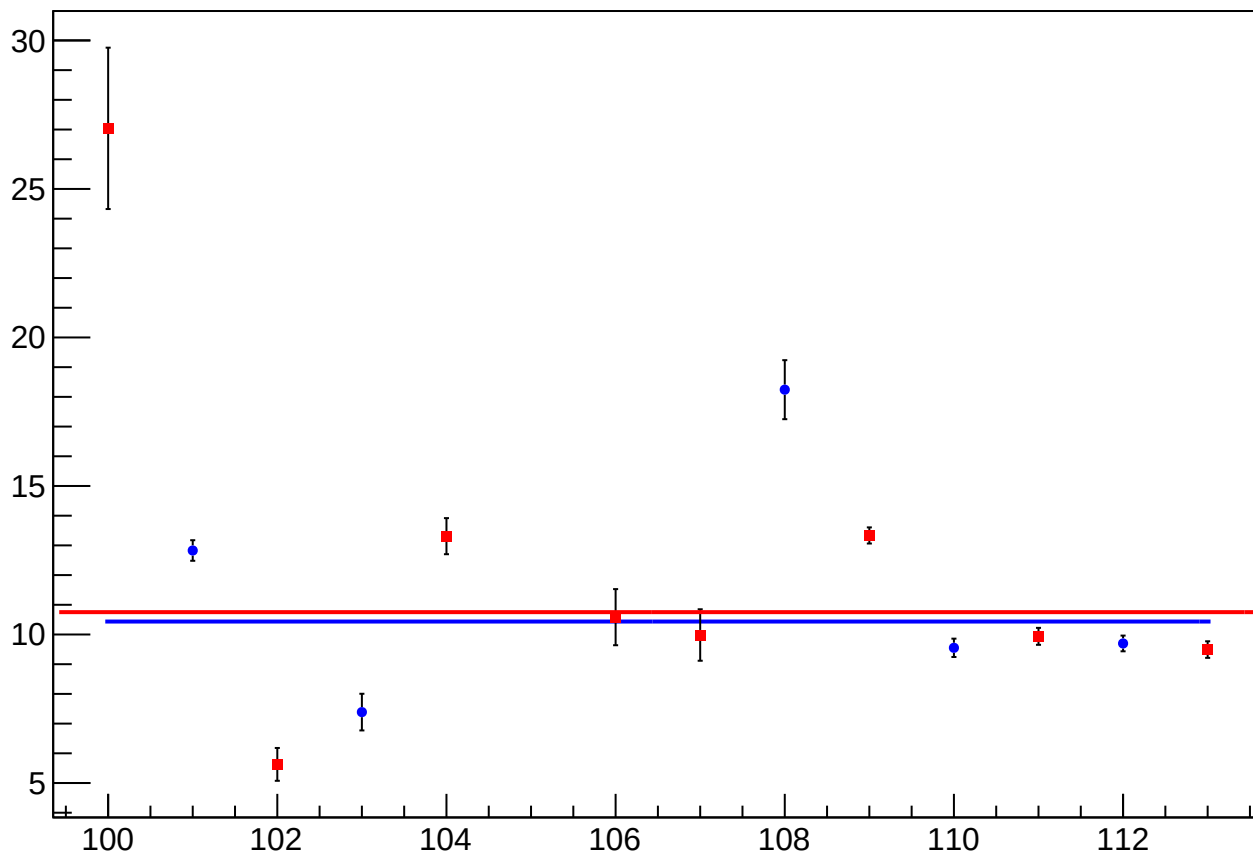
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.382+/-0.072  $\chi^2/\text{NDF}$ : 4566.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug



Right In: 10.436 $\pm$ 0.165  $\chi^2$ /NDF: 149.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.753 $\pm$ 0.145  $\chi^2$ /NDF: 259.7/7

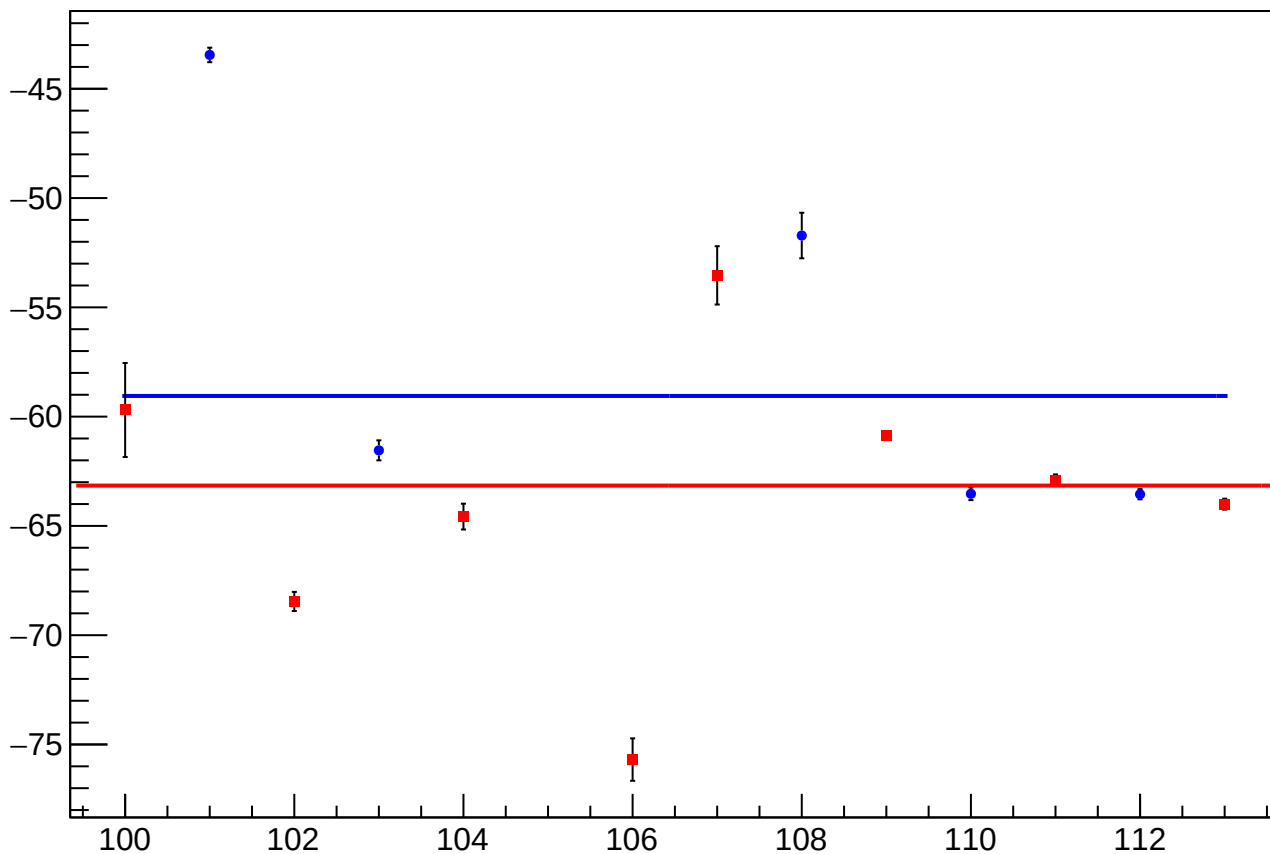
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.614 $\pm$ 0.109  $\chi^2$ /NDF: 411.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug



Right In:  $-59.054 \pm 0.149$   $\chi^2/\text{NDF}$ : 2890.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-63.155 \pm 0.127$   $\chi^2/\text{NDF}$ : 499.8/7

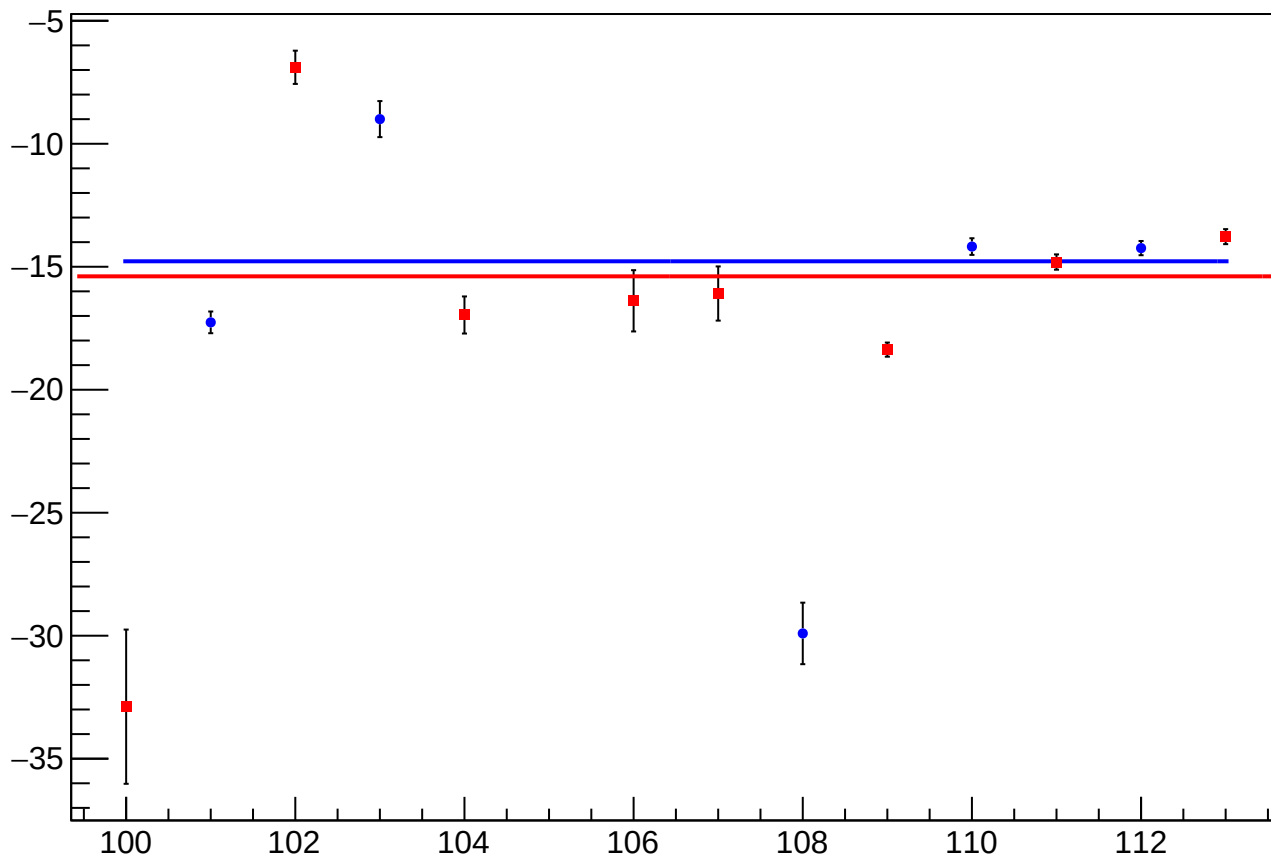
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-61.425 \pm 0.097$   $\chi^2/\text{NDF}$ : 3828.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug



Right In:  $-14.778 \pm 0.188$   $\chi^2/\text{NDF}$ : 246.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-15.390 \pm 0.161$   $\chi^2/\text{NDF}$ : 333.7/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

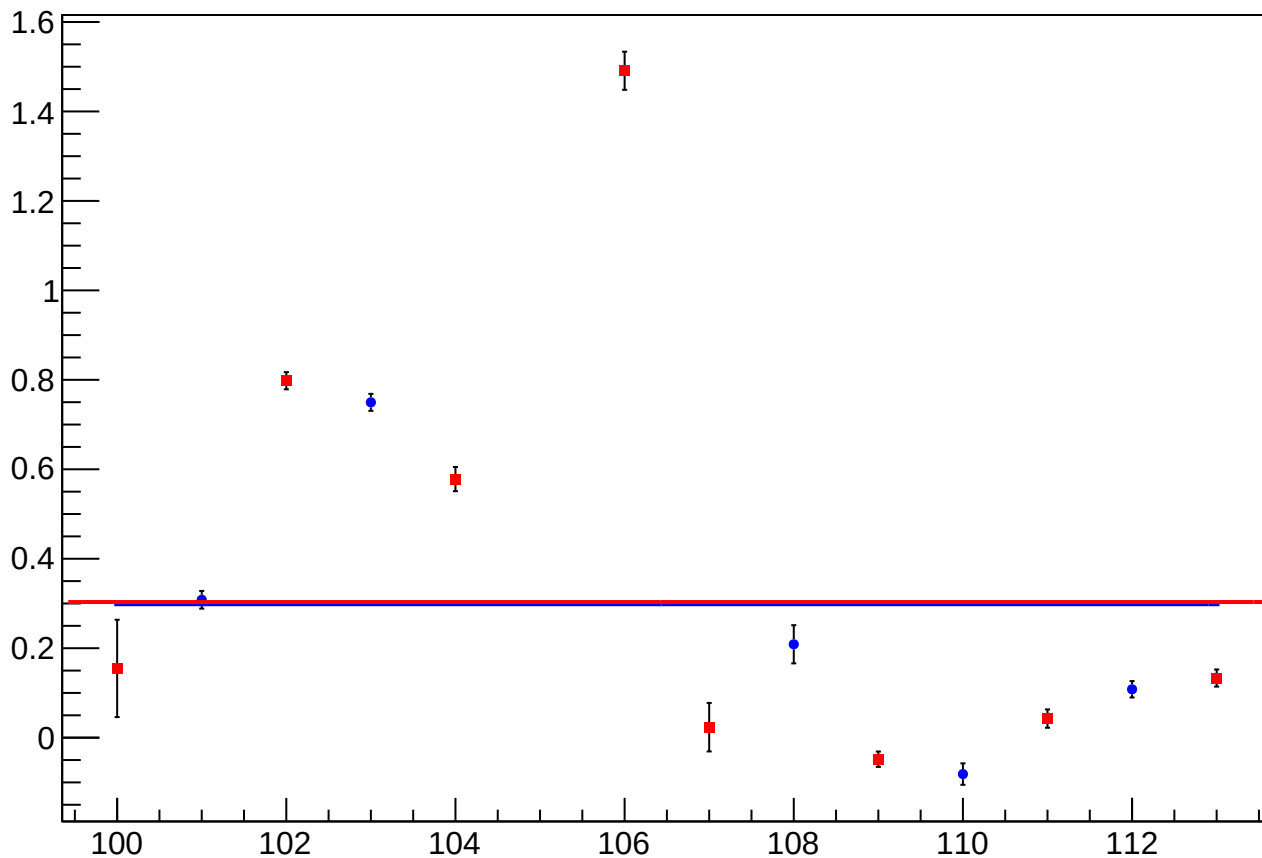
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-15.131 \pm 0.122$   $\chi^2/\text{NDF}$ : 586.6/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug



Right In: 0.298+/-0.010  $\chi^2/\text{NDF}$ : 927.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.303+/-0.009  $\chi^2/\text{NDF}$ : 2228.9/7

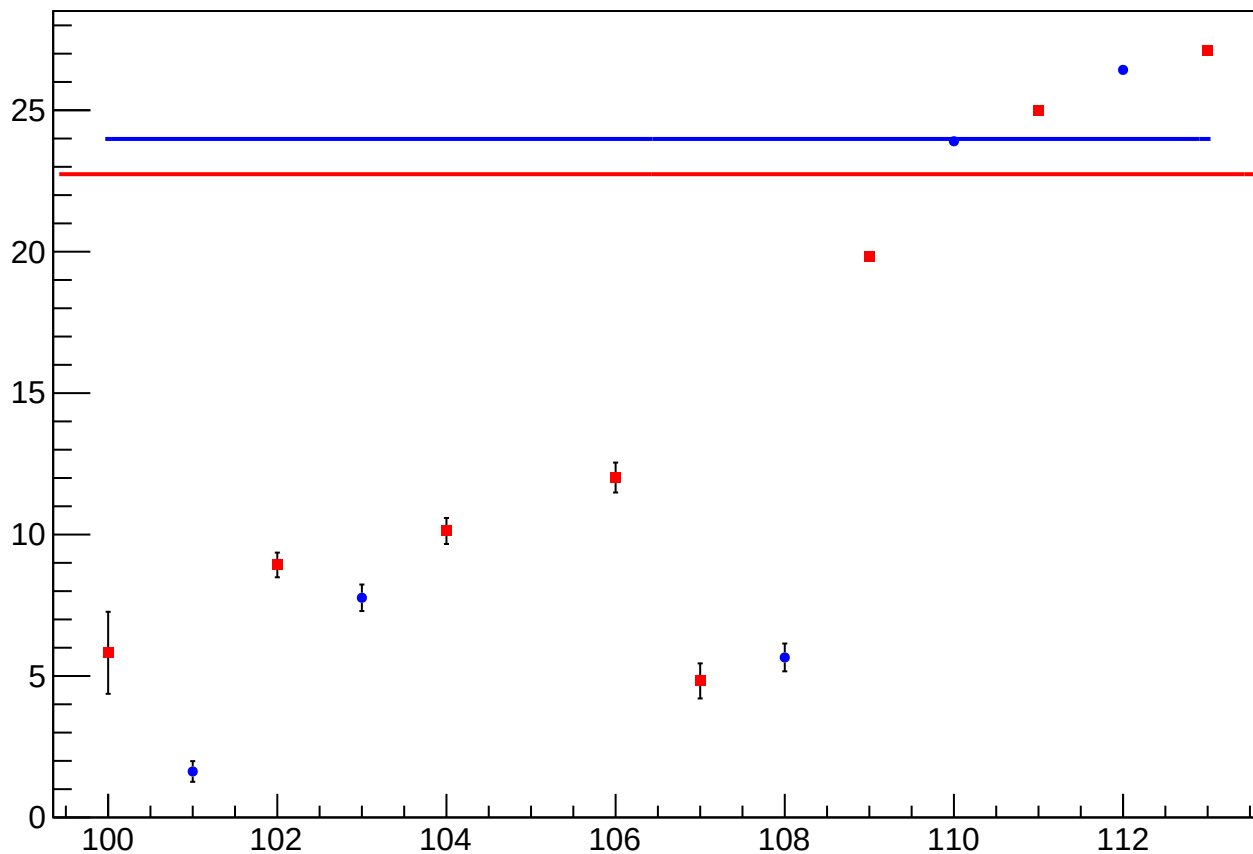
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.301+/-0.006  $\chi^2/\text{NDF}$ : 3156.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug



Right In: 23.985 $\pm$ 0.065  $\chi^2$ /NDF: 7119.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.739 $\pm$ 0.049  $\chi^2$ /NDF: 7147.4/7

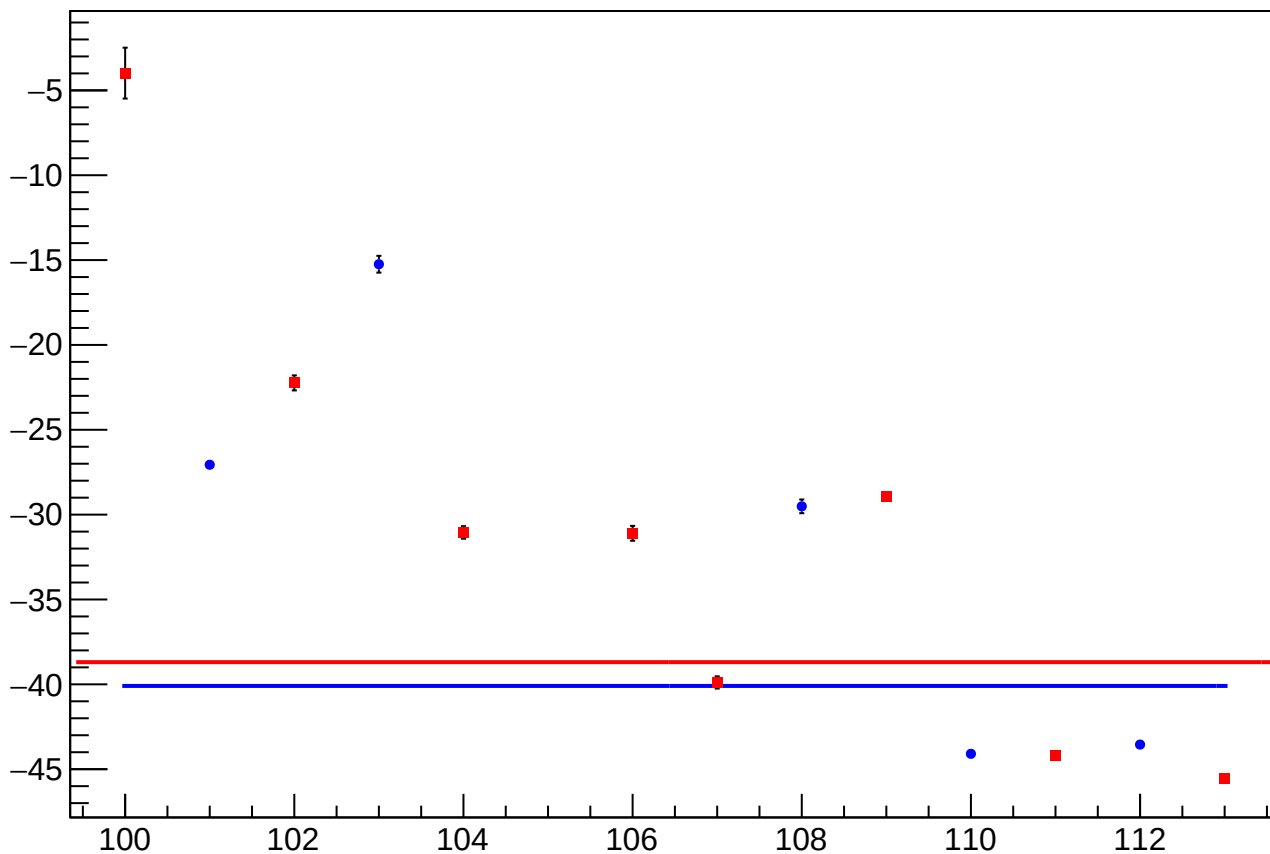
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.194 $\pm$ 0.039  $\chi^2$ /NDF: 14501.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug



Right In:  $-40.094 \pm 0.097$   $\chi^2/\text{NDF}: 6288.5/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-38.692 \pm 0.082$   $\chi^2/\text{NDF}: 9398.6/7$

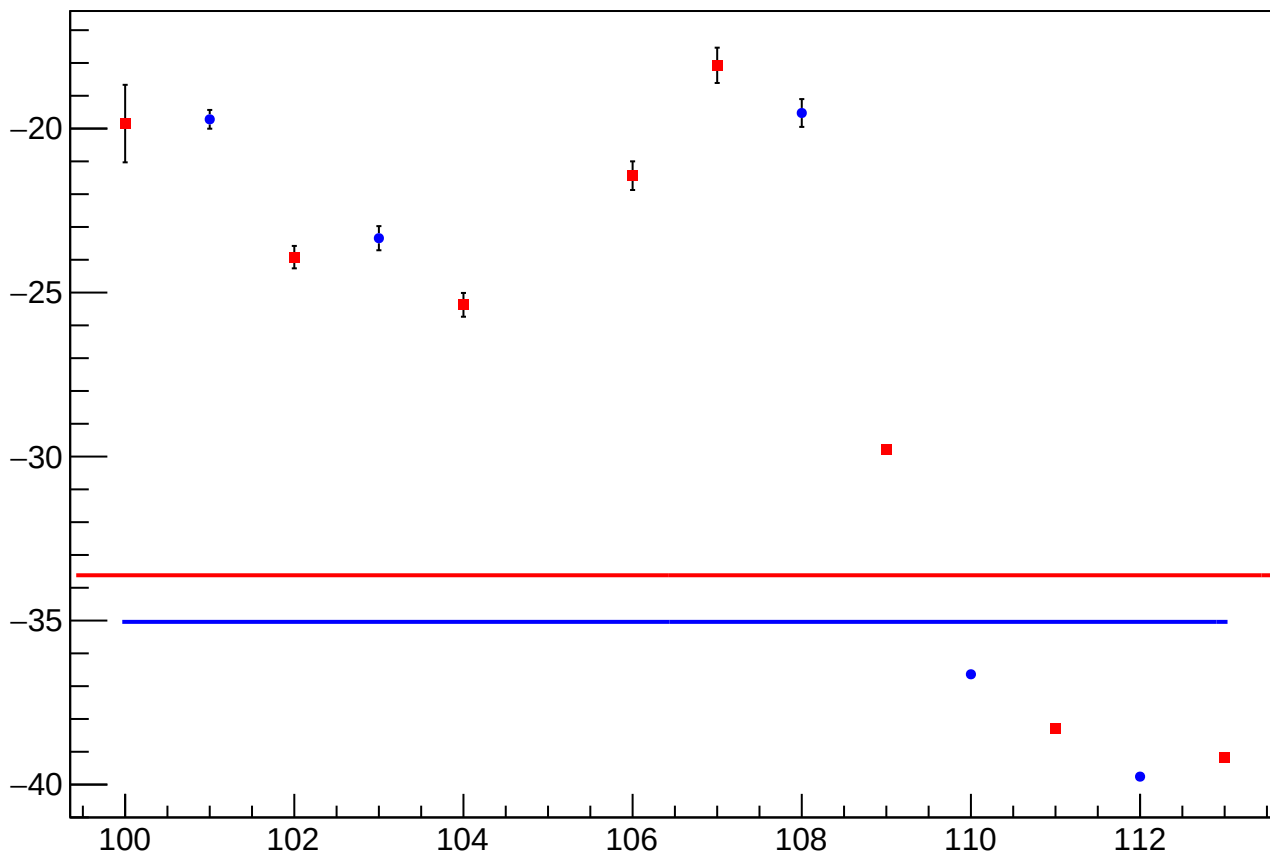
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-39.275 \pm 0.063$   $\chi^2/\text{NDF}: 15809.1/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug



Right In:  $-35.039 \pm 0.088$   $\chi^2/\text{NDF}$ : 6702.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-33.619 \pm 0.070$   $\chi^2/\text{NDF}$ : 6885.1/7

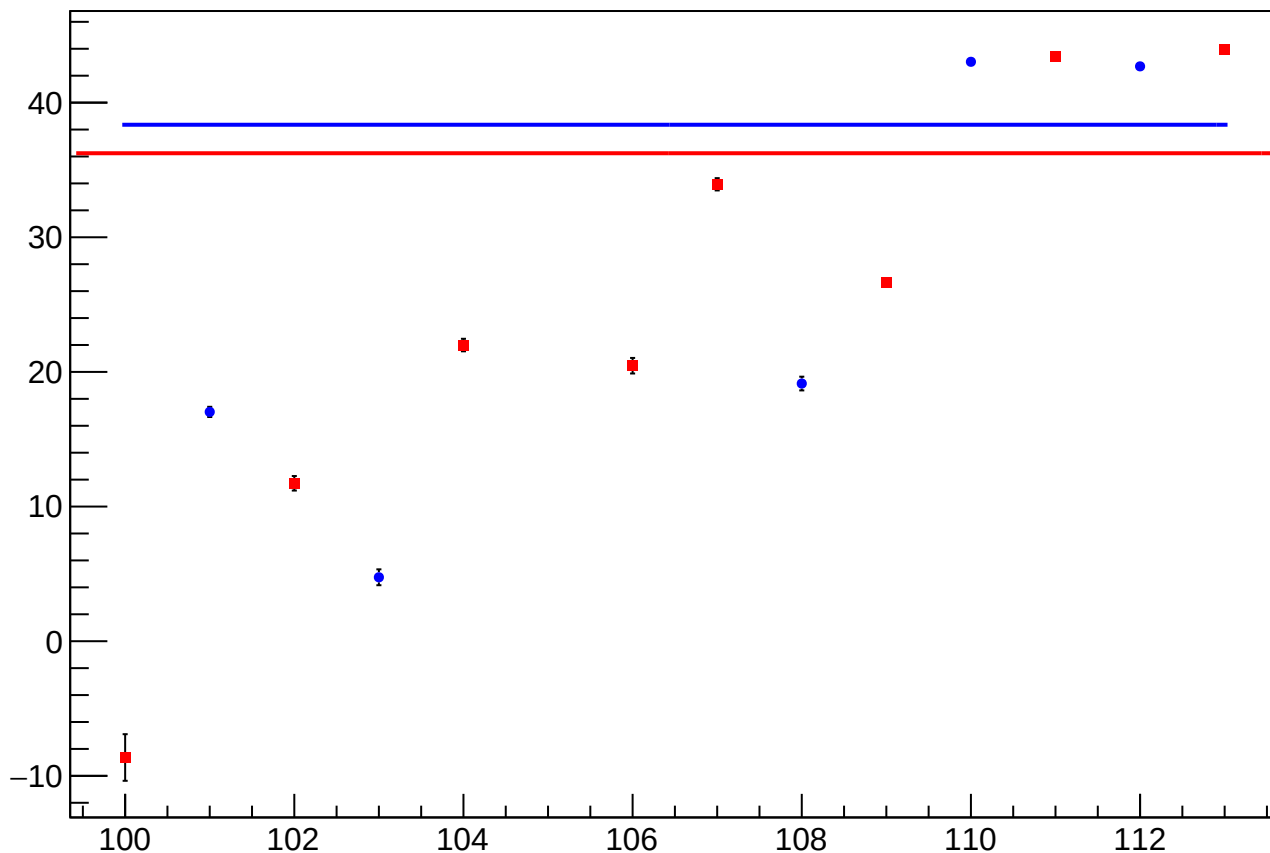
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-34.174 \pm 0.055$   $\chi^2/\text{NDF}$ : 13747.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug



Right In: 38.357 $\pm$ 0.109  $\chi^2$ /NDF: 9267.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.241 $\pm$ 0.090  $\chi^2$ /NDF: 11619.7/7

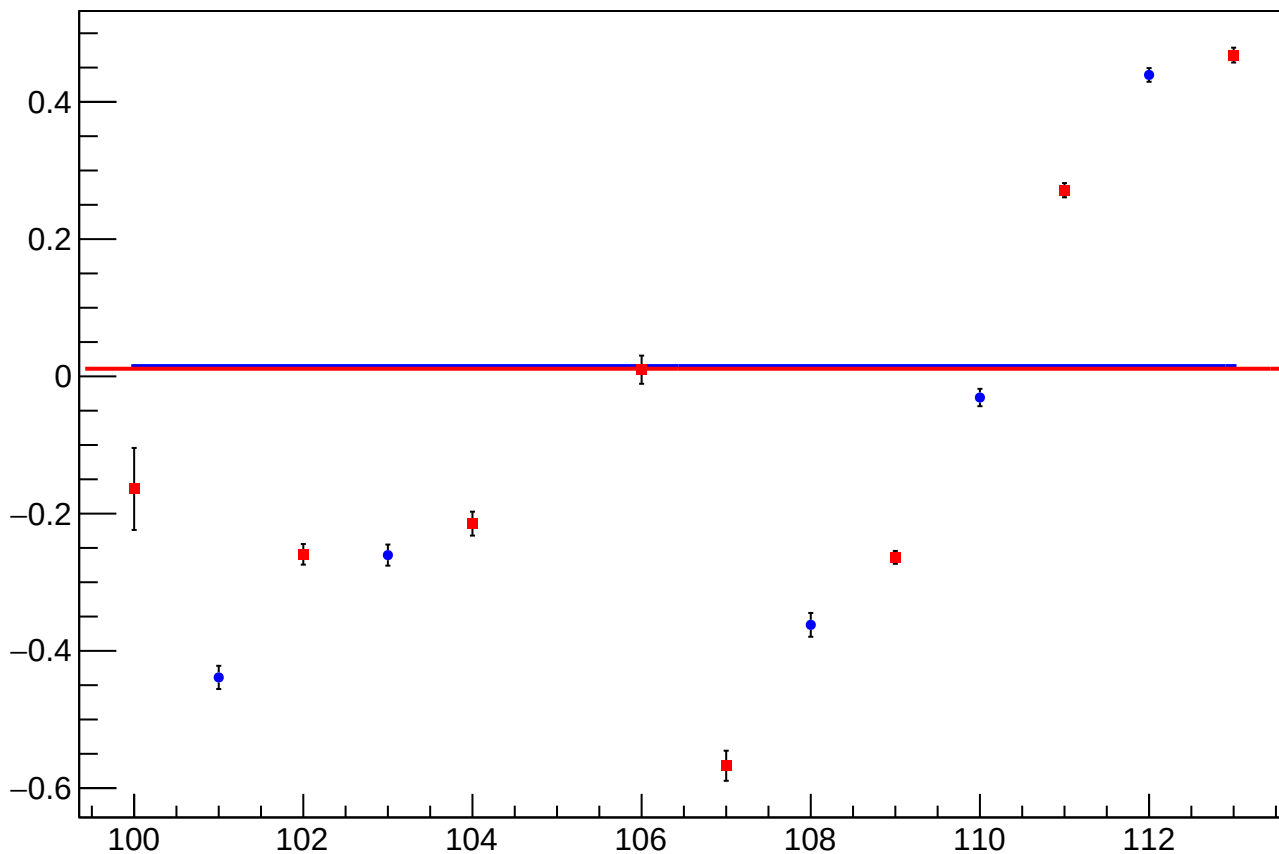
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.102 $\pm$ 0.069  $\chi^2$ /NDF: 21112.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug



Right In: 0.015 $\pm$ 0.006  $\chi^2$ /NDF: 3344.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.011 $\pm$ 0.005  $\chi^2$ /NDF: 4466.8/7

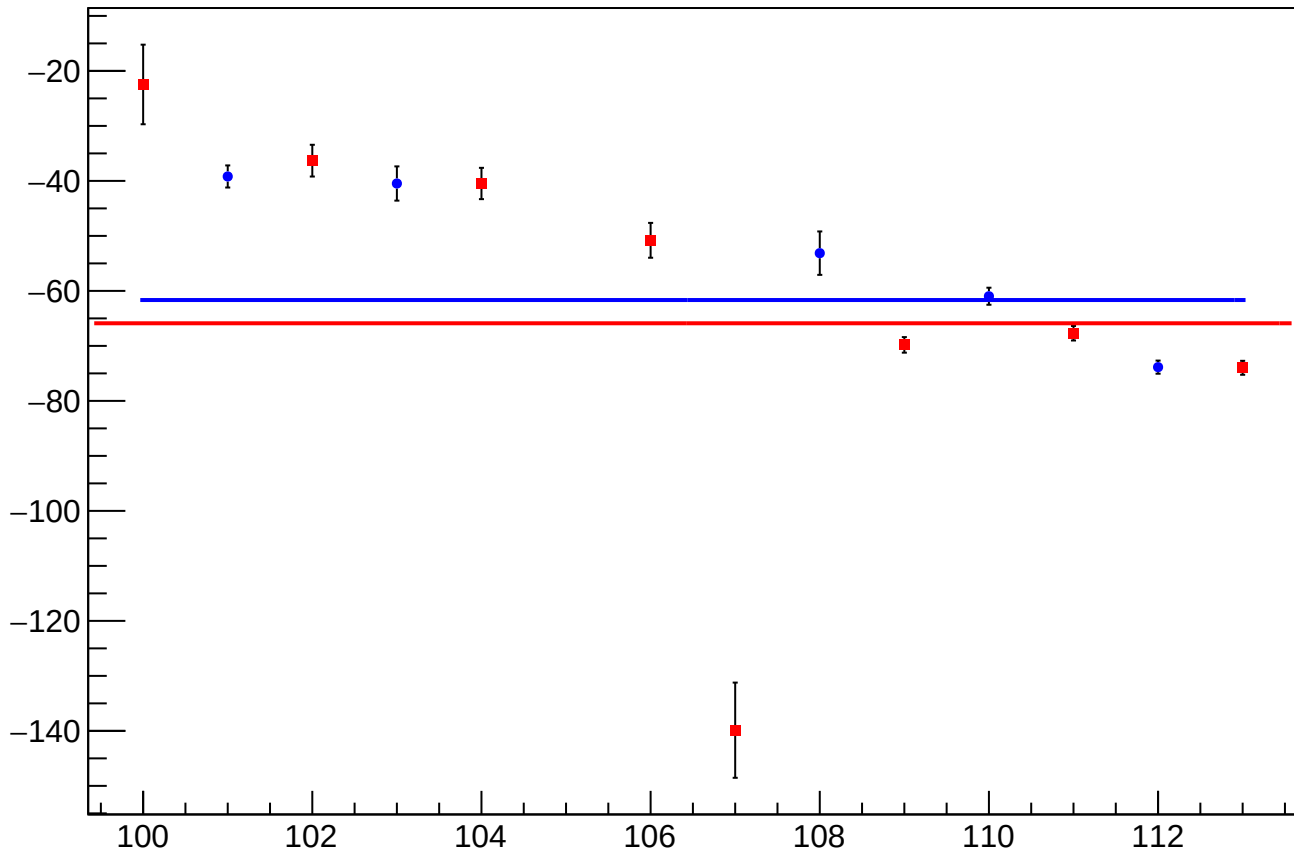
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.013 $\pm$ 0.004  $\chi^2$ /NDF: 7811.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug



Right In:  $-61.661 \pm 0.807$   $\chi^2/\text{NDF}$ : 280.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-65.888 \pm 0.695$   $\chi^2/\text{NDF}$ : 366.7/7

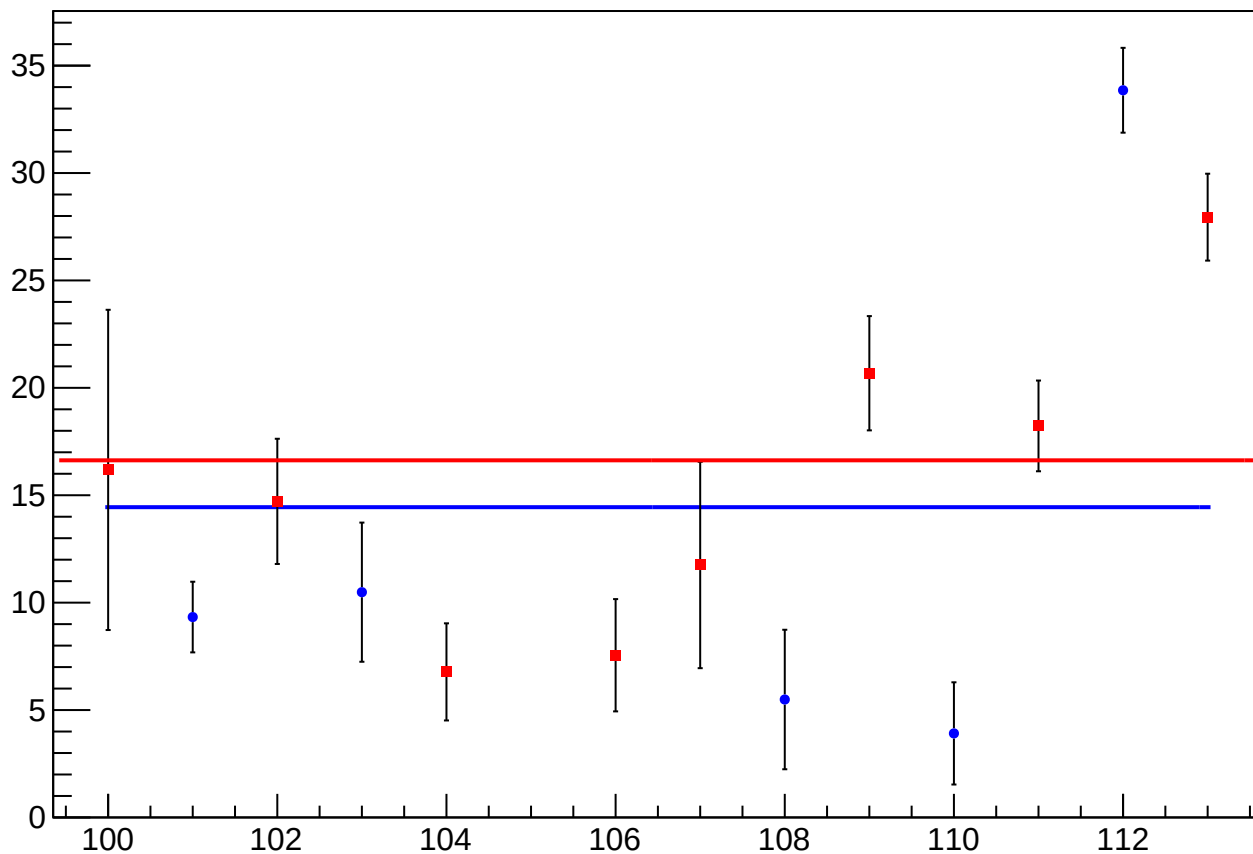
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-64.088 \pm 0.527$   $\chi^2/\text{NDF}$ : 663.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug



Right In: 14.444 $\pm$ 1.004  $\chi^2$ /NDF: 135.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.625 $\pm$ 0.940  $\chi^2$ /NDF: 66.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

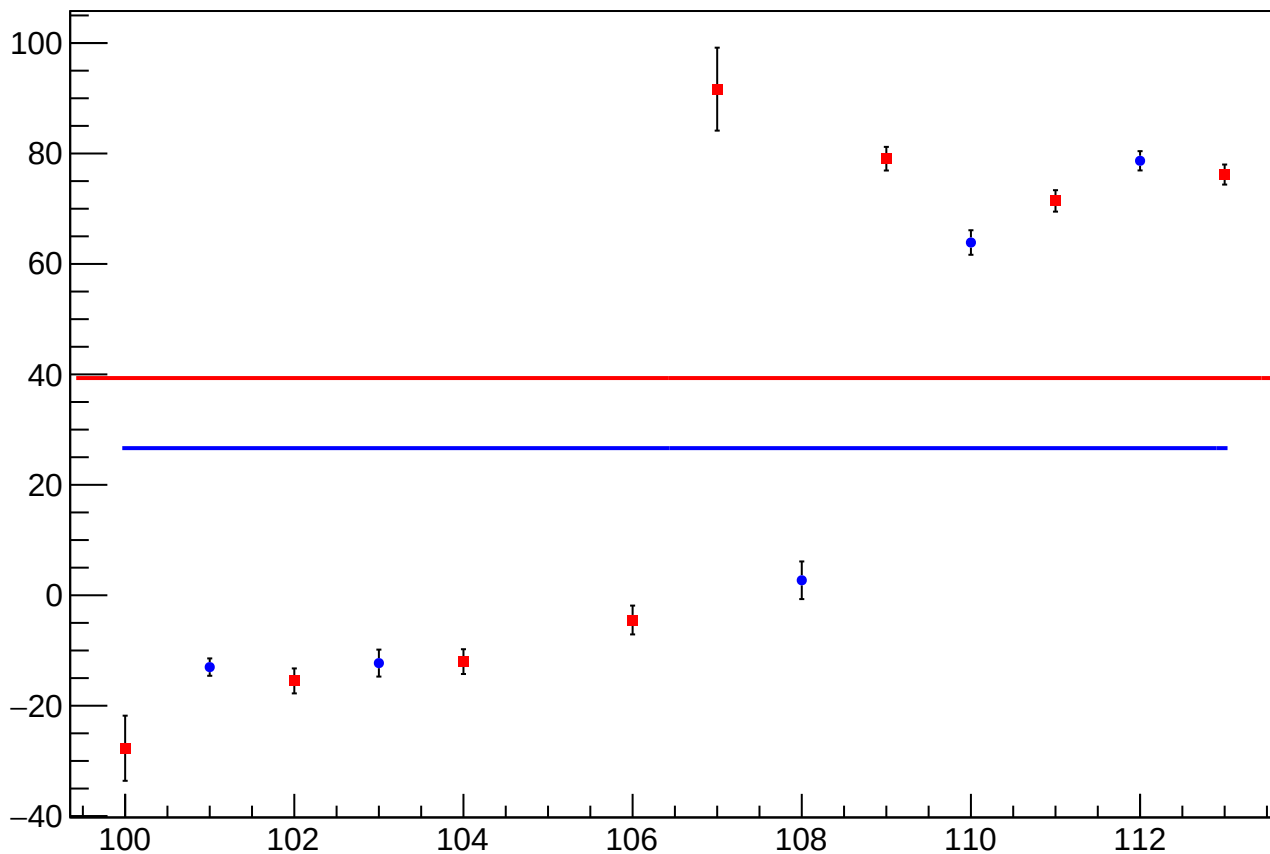
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 15.606 $\pm$ 0.686  $\chi^2$ /NDF: 204.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug



Right In: 26.644 $\pm$ 0.917  $\chi^2$ /NDF: 2107.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 39.335 $\pm$ 0.853  $\chi^2$ /NDF: 2600.0/7

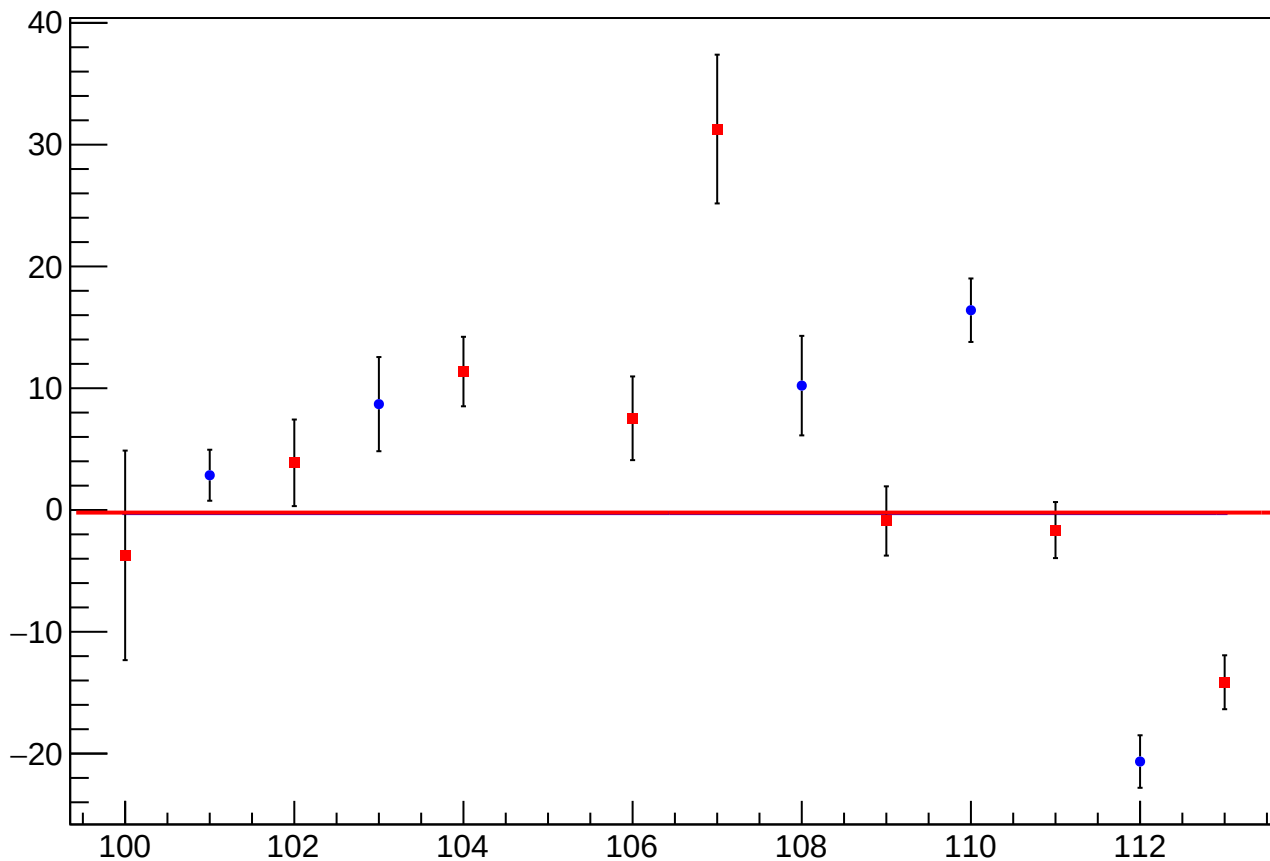
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.450 $\pm$ 0.625  $\chi^2$ /NDF: 4810.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.254 \pm 1.181$   $\chi^2/\text{NDF}: 144.5/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.212 \pm 1.089$   $\chi^2/\text{NDF}: 89.7/7$

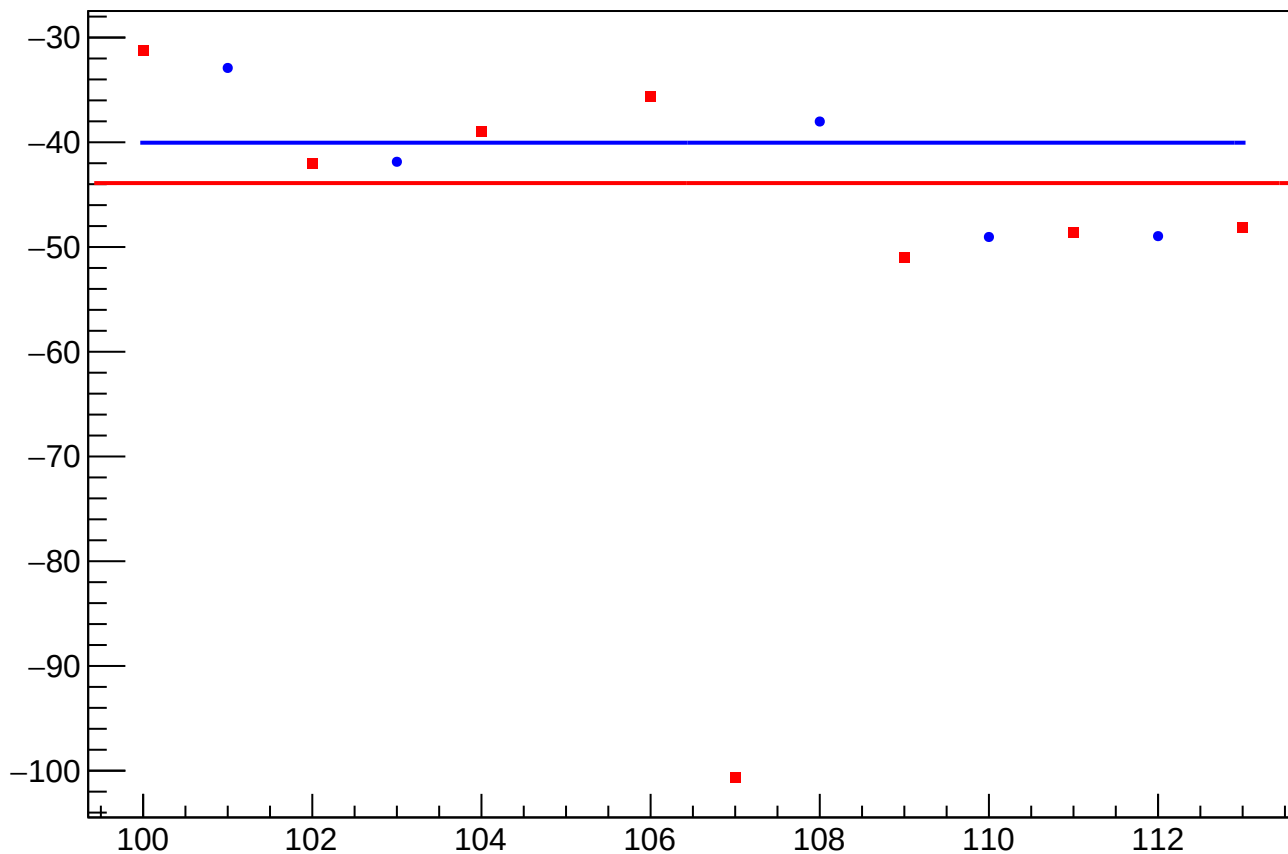
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.231 \pm 0.801$   $\chi^2/\text{NDF}: 234.1/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug



Right In:  $-40.040 \pm 0.054$   $\chi^2/\text{NDF}$ : 12973.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-43.896 \pm 0.049$   $\chi^2/\text{NDF}$ : 47354.1/7

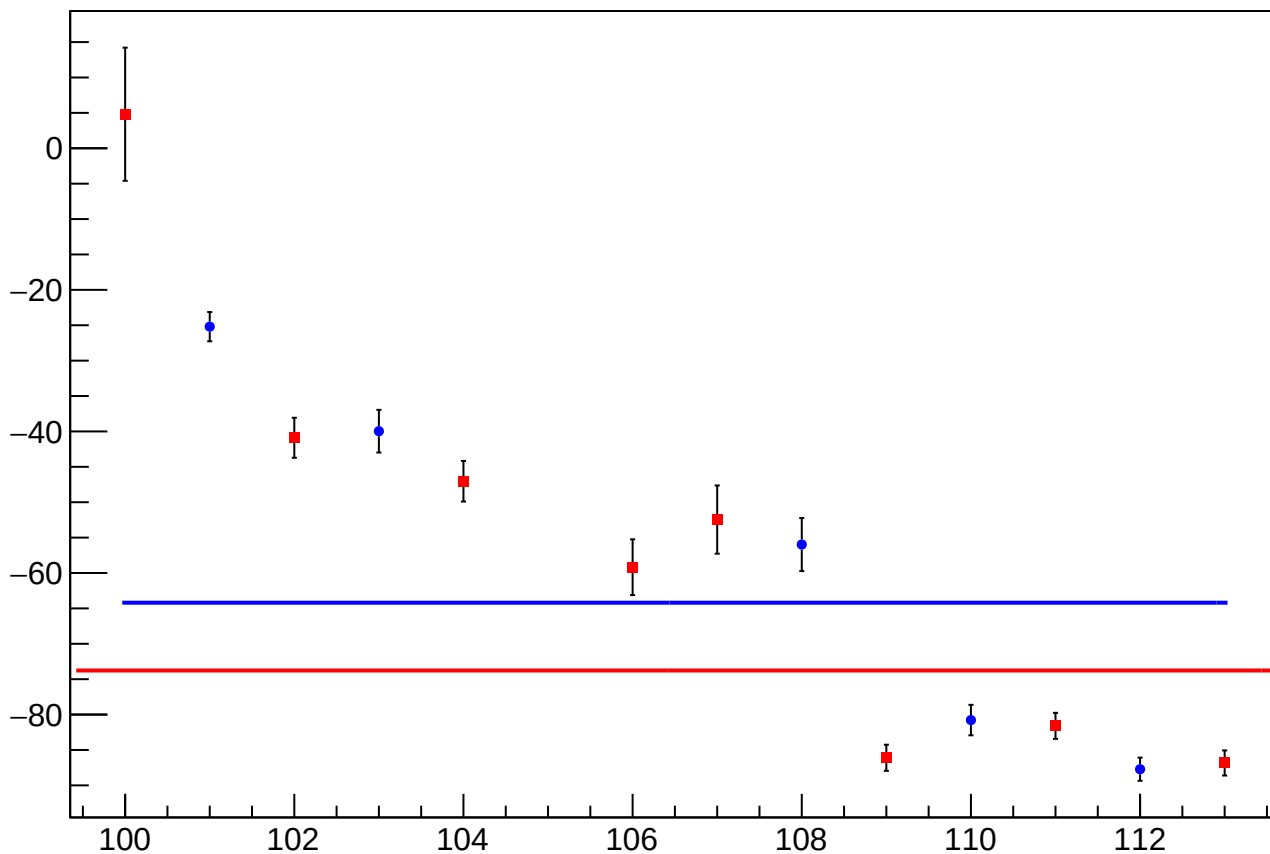
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-42.144 \pm 0.036$   $\chi^2/\text{NDF}$ : 63114.5/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug



Right In:  $-64.194 \pm 0.998$   $\chi^2/\text{NDF}: 690.3/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-73.773 \pm 0.886$   $\chi^2/\text{NDF}: 442.5/7$

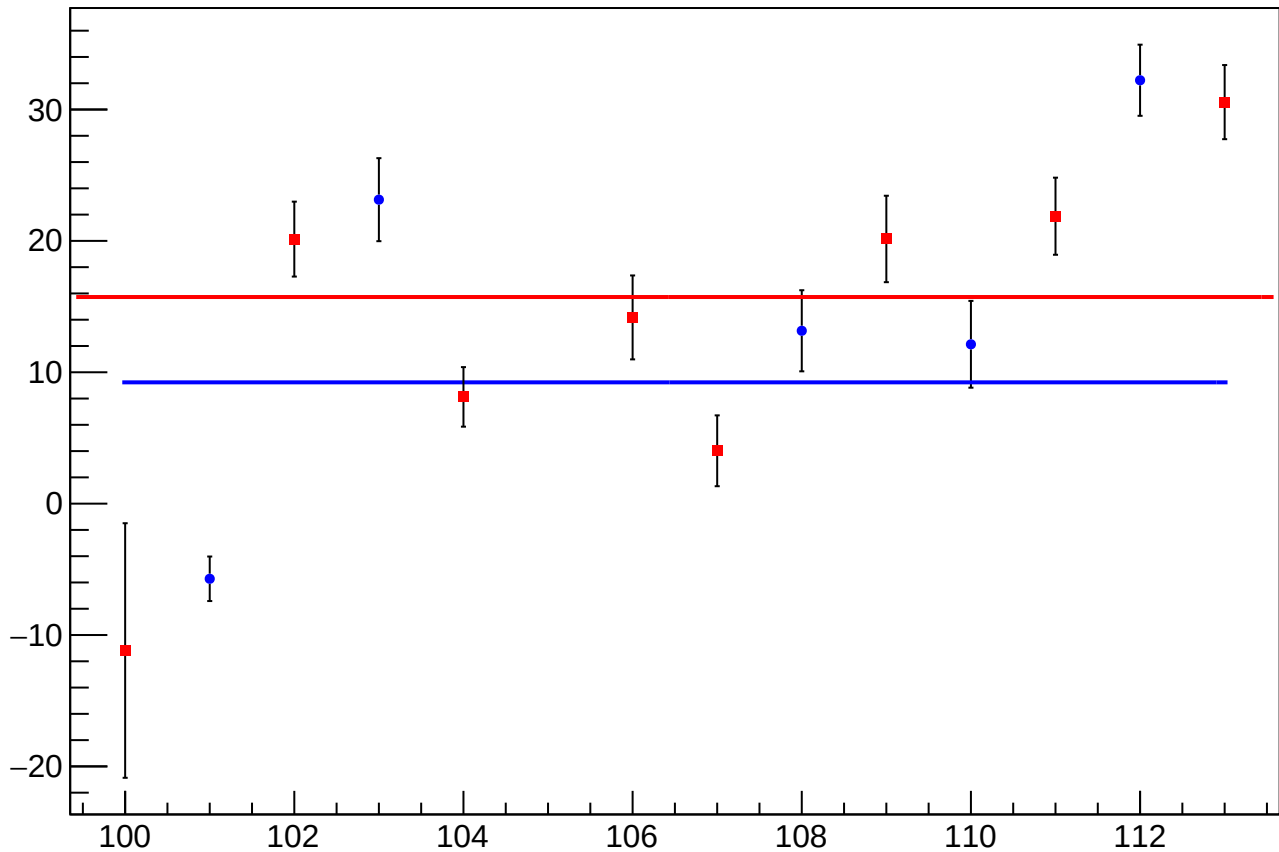
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-69.554 \pm 0.663$   $\chi^2/\text{NDF}: 1184.3/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug



Right In:  $9.233 \pm 1.131$   $\chi^2/\text{NDF}: 171.7/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $15.728 \pm 1.055$   $\chi^2/\text{NDF}: 74.3/7$

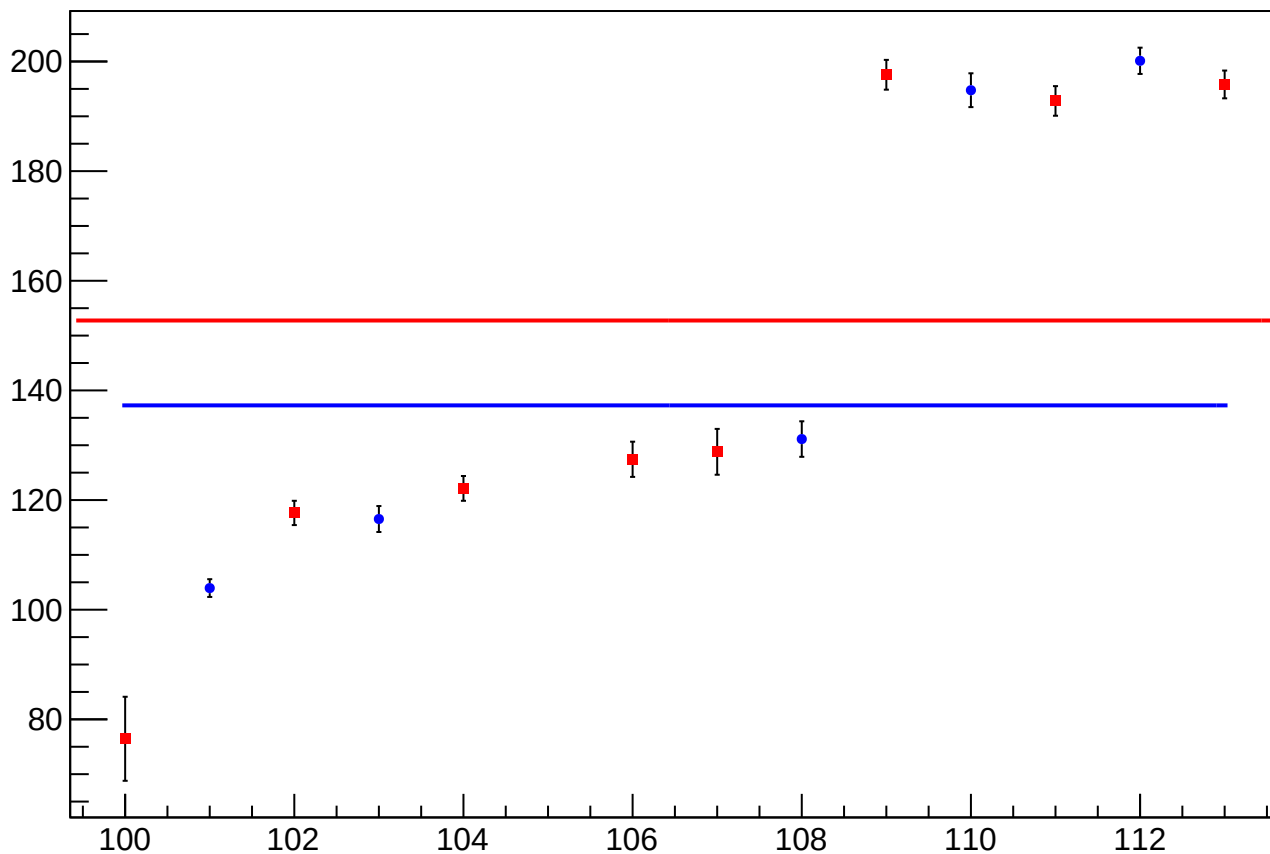
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $12.705 \pm 0.772$   $\chi^2/\text{NDF}: 263.6/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug



Right In: 137.271 $\pm$ 1.035  $\chi^2$ /NDF: 1538.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 152.754 $\pm$ 1.001  $\chi^2$ /NDF: 1409.3/7

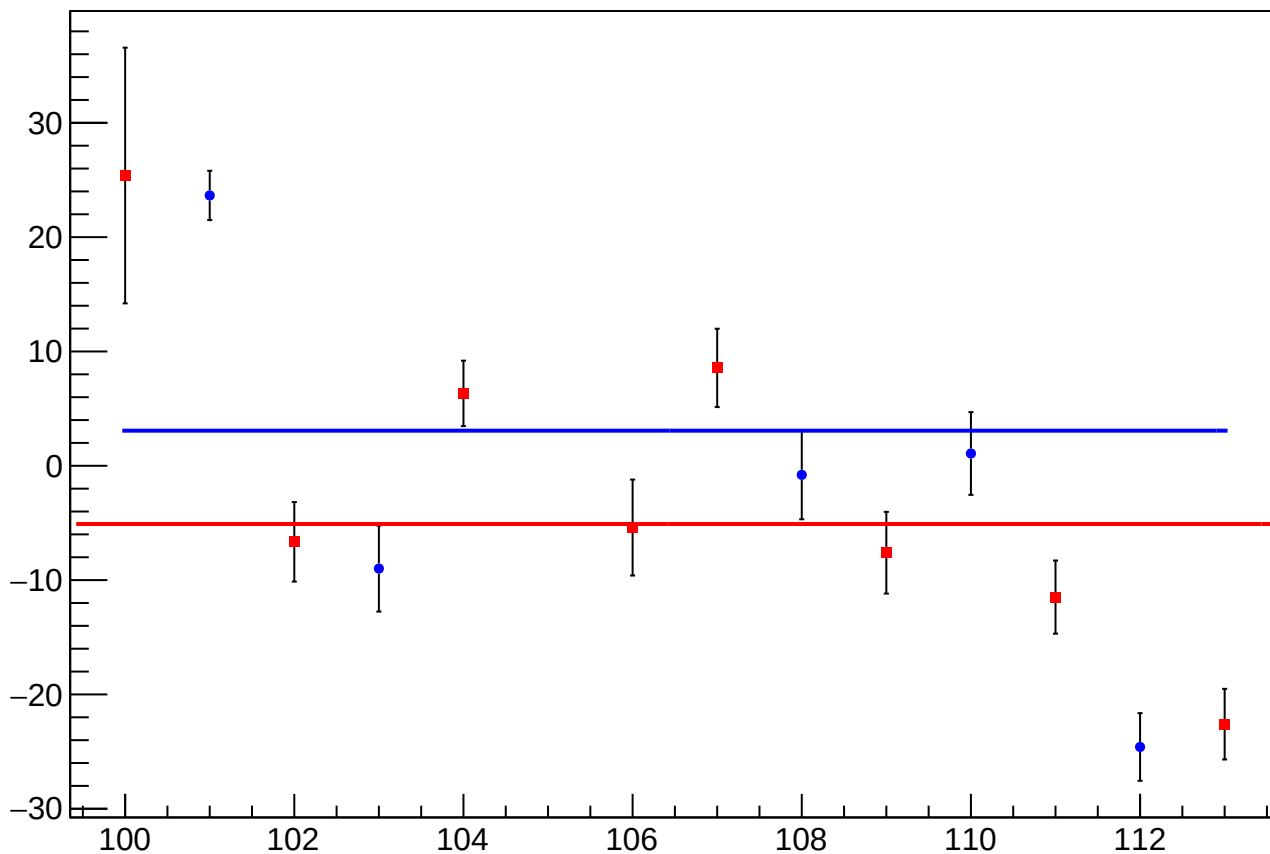
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 145.271 $\pm$ 0.719  $\chi^2$ /NDF: 3063.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug



Right In: 3.072 $\pm$ 1.358  $\chi^2$ /NDF: 189.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -5.093 $\pm$ 1.255  $\chi^2$ /NDF: 76.0/7

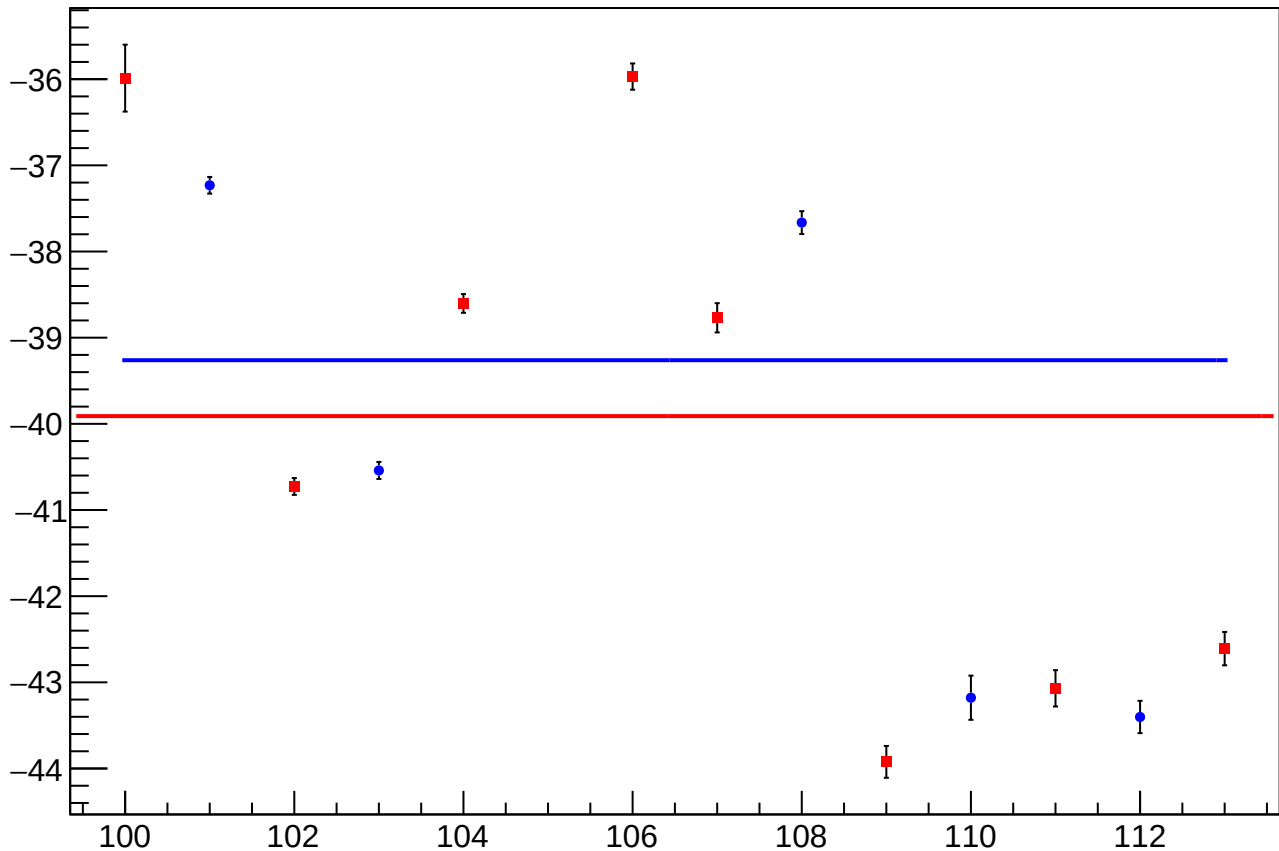
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.333 $\pm$ 0.922  $\chi^2$ /NDF: 285.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug



Right In:  $-39.261 \pm 0.057$   $\chi^2/\text{NDF}$ : 1475.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-39.910 \pm 0.053$   $\chi^2/\text{NDF}$ : 1921.0/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

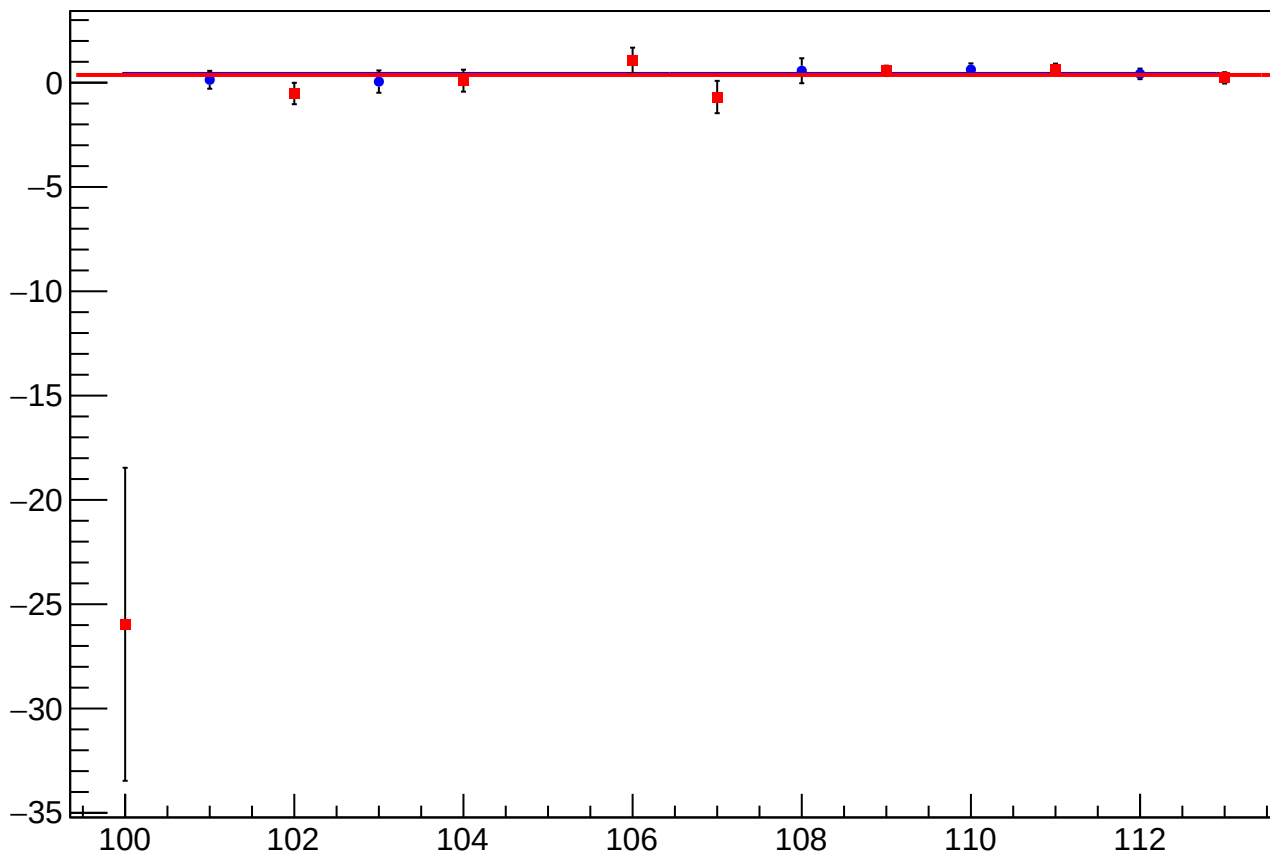
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-39.607 \pm 0.039$   $\chi^2/\text{NDF}$ : 3465.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug



Right In: 0.419 $\pm$ 0.161  $\chi^2$ /NDF: 1.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.370 $\pm$ 0.135  $\chi^2$ /NDF: 20.5/7

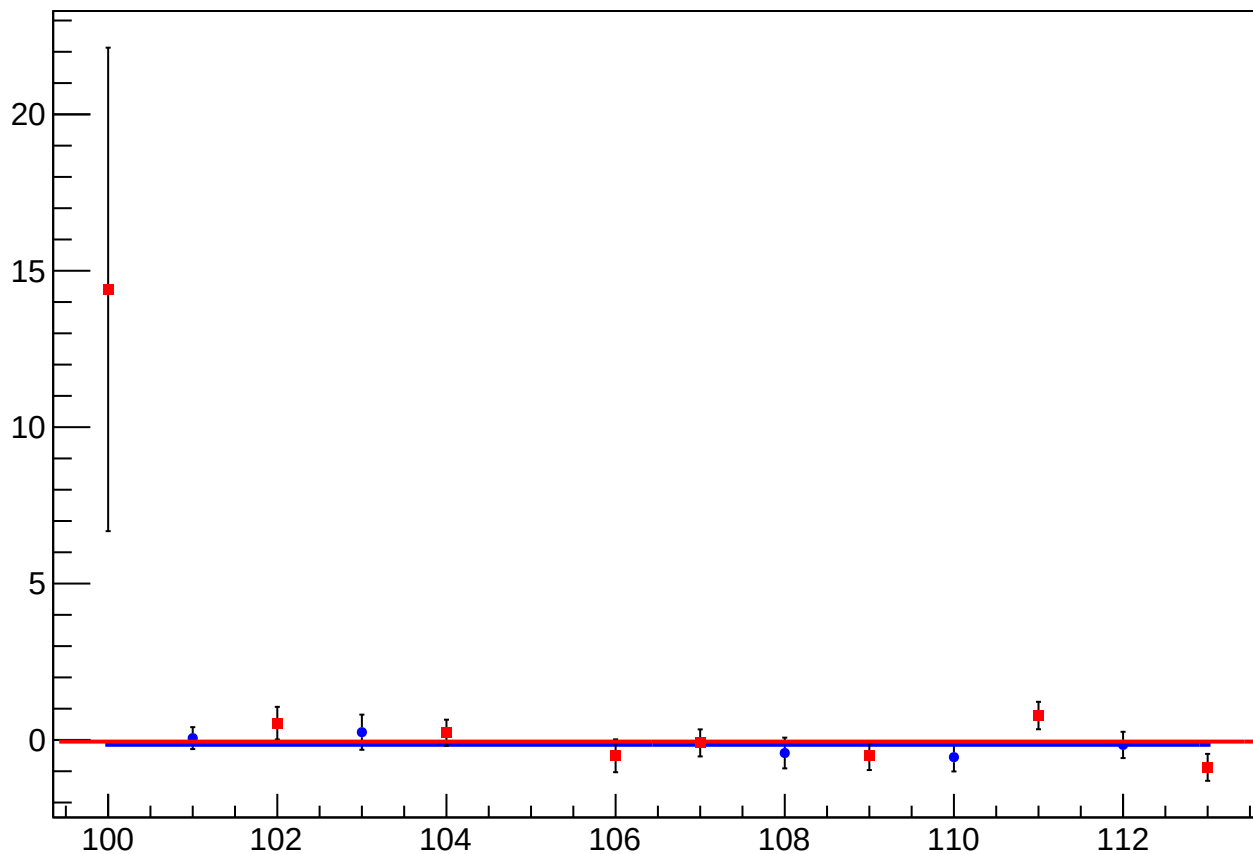
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.390 $\pm$ 0.103  $\chi^2$ /NDF: 22.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.154 \pm 0.196$   $\chi^2/\text{NDF}$ : 1.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.052 \pm 0.172$   $\chi^2/\text{NDF}$ : 14.2/7

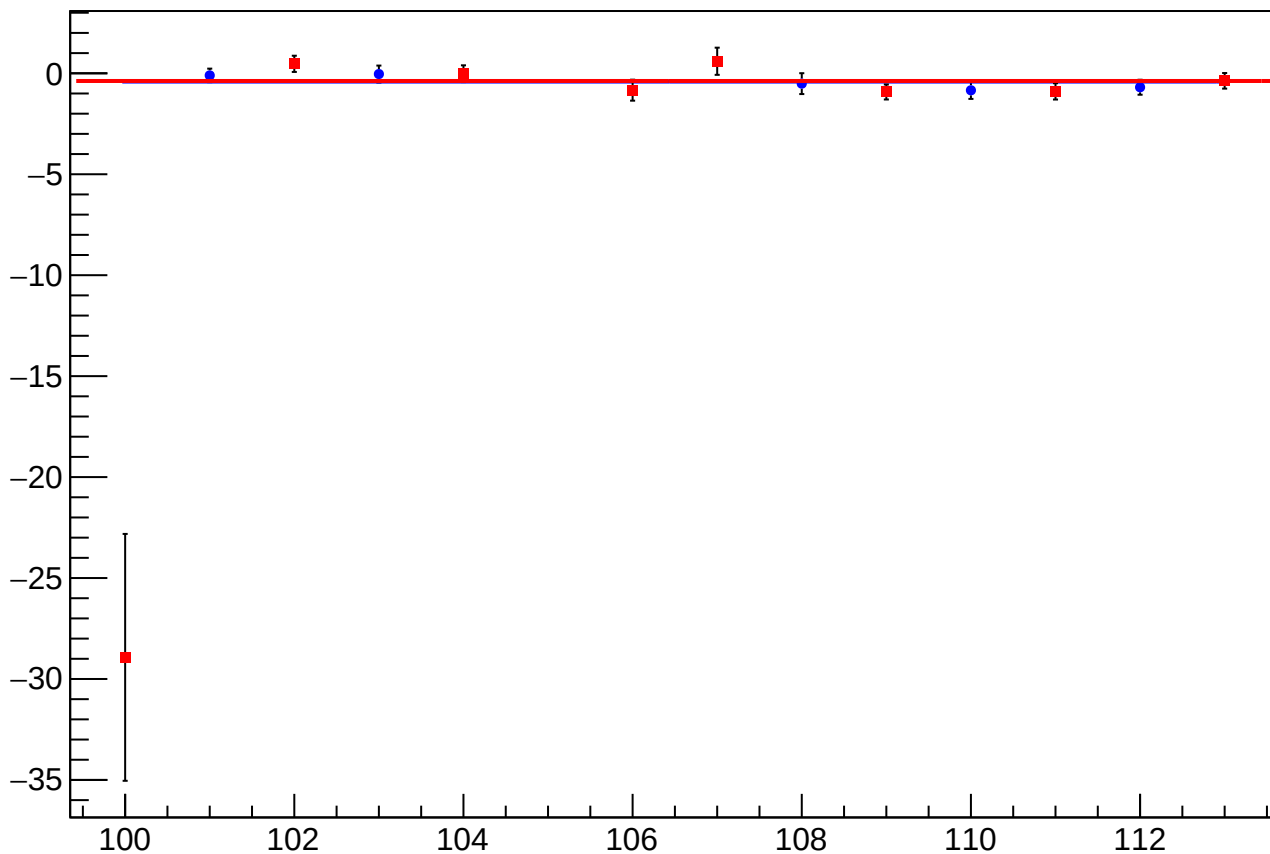
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.097 \pm 0.130$   $\chi^2/\text{NDF}$ : 16.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug



Right In: -0.408 $\pm$ 0.179  $\chi^2/\text{NDF}$ : 3.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.380 $\pm$ 0.162  $\chi^2/\text{NDF}$ : 33.7/7

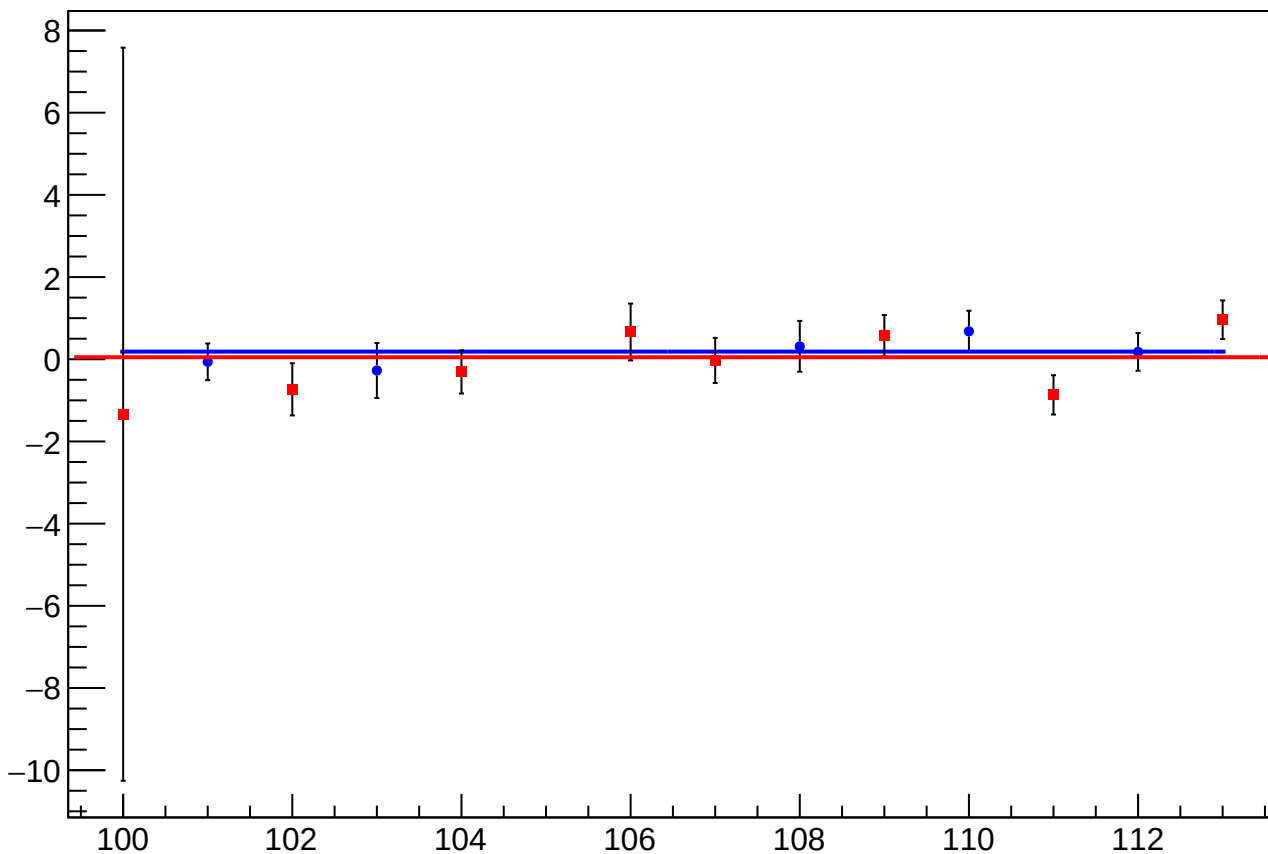
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.393 $\pm$ 0.120  $\chi^2/\text{NDF}$ : 37.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug



Right In: 0.186 $\pm$ 0.232  $\chi^2$ /NDF: 1.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.049 $\pm$ 0.202  $\chi^2$ /NDF: 11.4/7

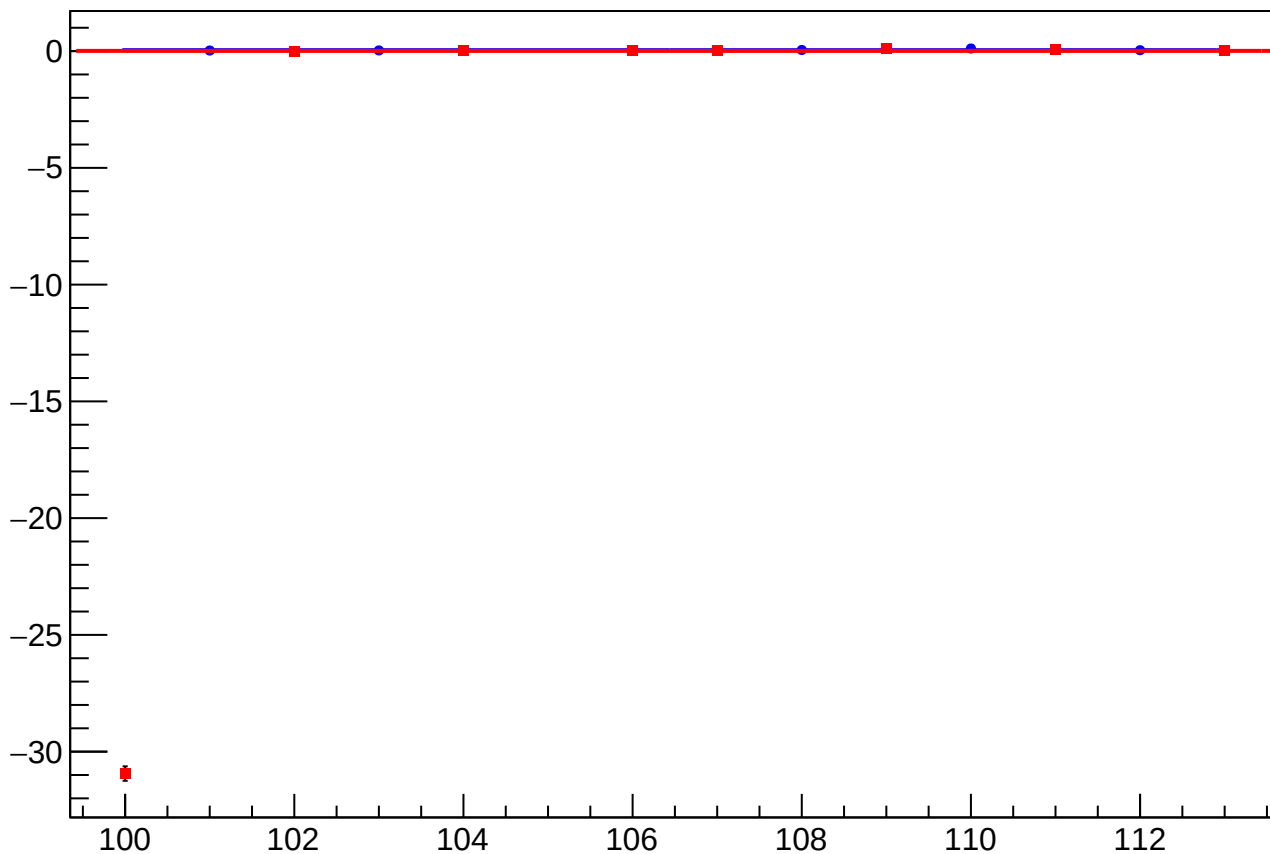
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.108 $\pm$ 0.152  $\chi^2$ /NDF: 13.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug



Right In: 0.040+/-0.010  $\chi^2/\text{NDF}$ : 5.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.009  $\chi^2/\text{NDF}$ : 10001.8/7

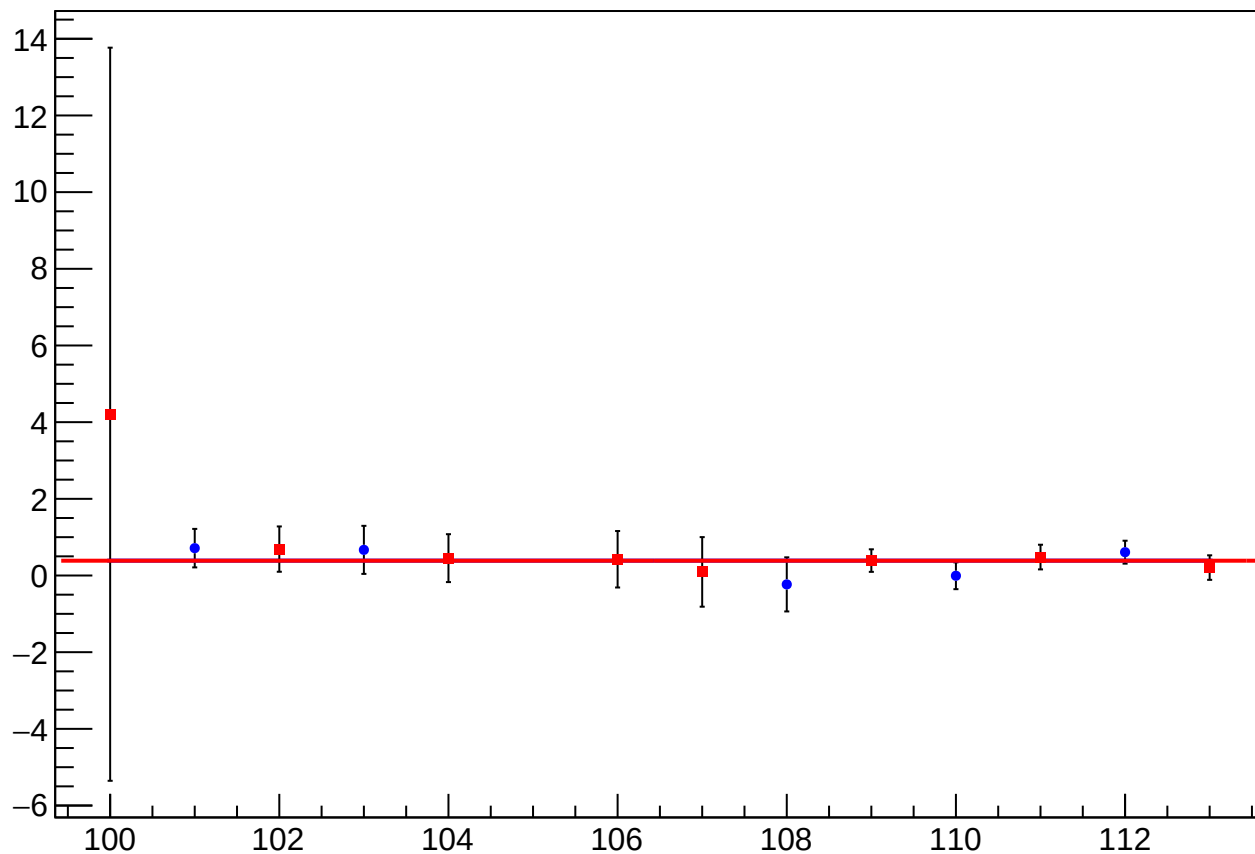
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.023+/-0.007  $\chi^2/\text{NDF}$ : 10012.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug



Right In: 0.388 $\pm$ 0.189  $\chi^2$ /NDF: 3.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.386 $\pm$ 0.159  $\chi^2$ /NDF: 0.9/7

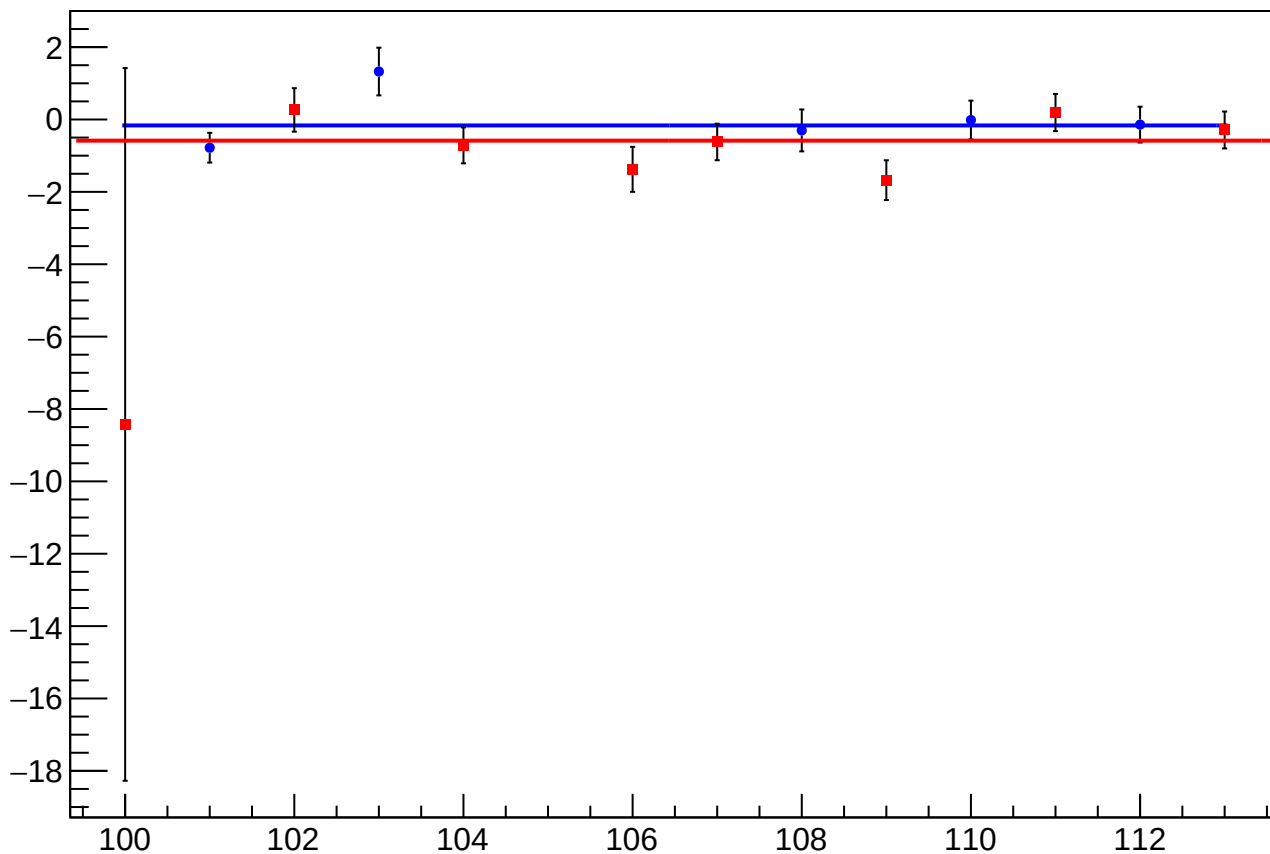
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.387 $\pm$ 0.122  $\chi^2$ /NDF: 4.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.165 \pm 0.231$   $\chi^2/\text{NDF}$ : 7.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.585 \pm 0.203$   $\chi^2/\text{NDF}$ : 10.9/7

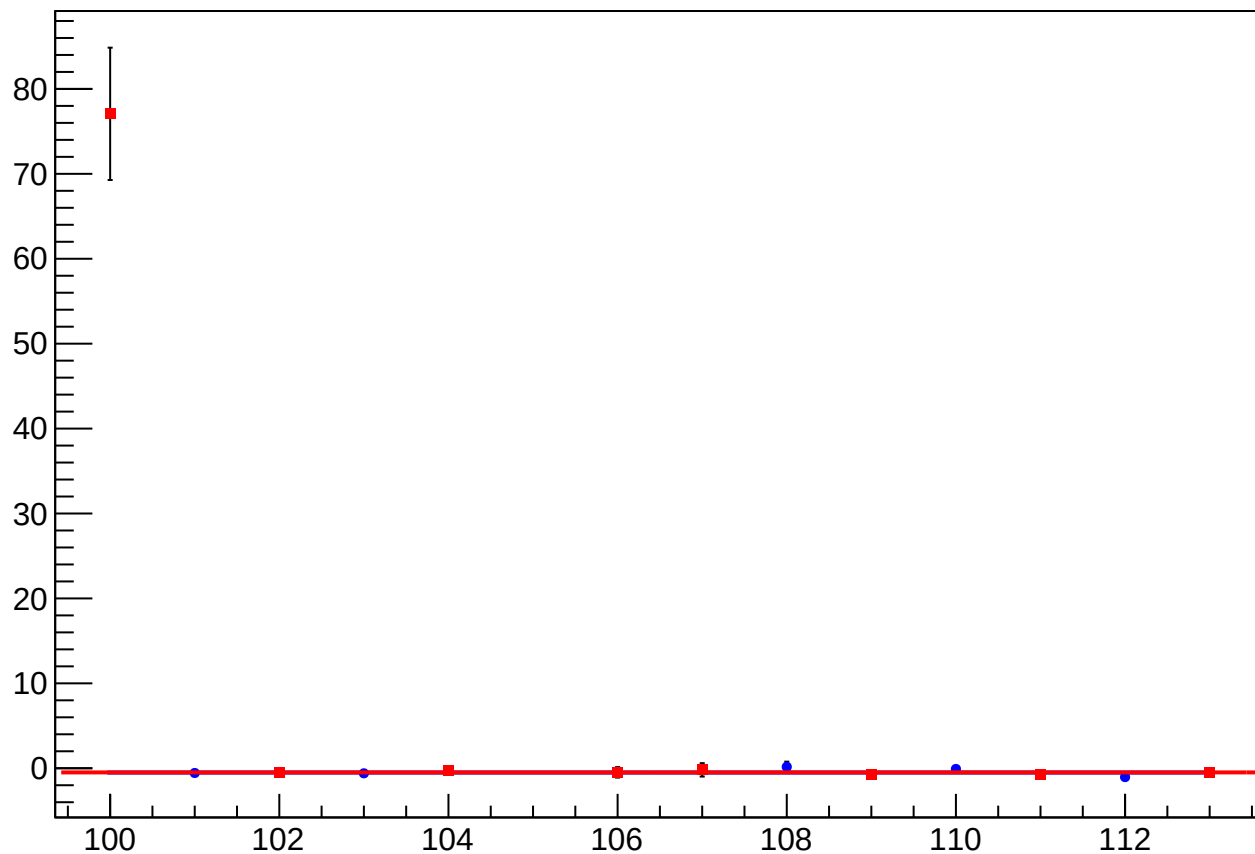
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.402 \pm 0.152$   $\chi^2/\text{NDF}$ : 20.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.505 \pm 0.211$   $\chi^2/\text{NDF}$ : 3.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.489 \pm 0.191$   $\chi^2/\text{NDF}$ : 100.0/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

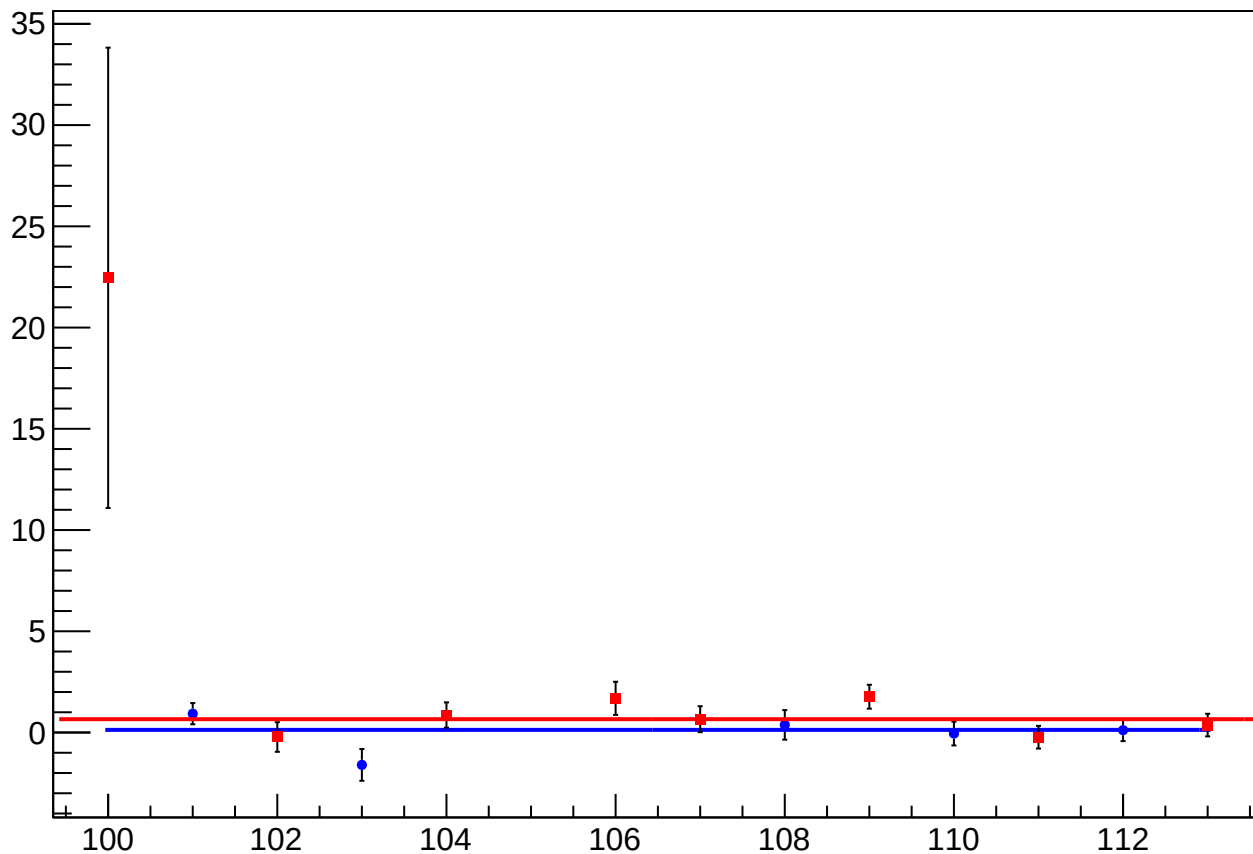
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.497 \pm 0.141$   $\chi^2/\text{NDF}$ : 103.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug



Right In: 0.130 $\pm$ 0.272  $\chi^2$ /NDF: 7.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.659 $\pm$ 0.238  $\chi^2$ /NDF: 13.1/7

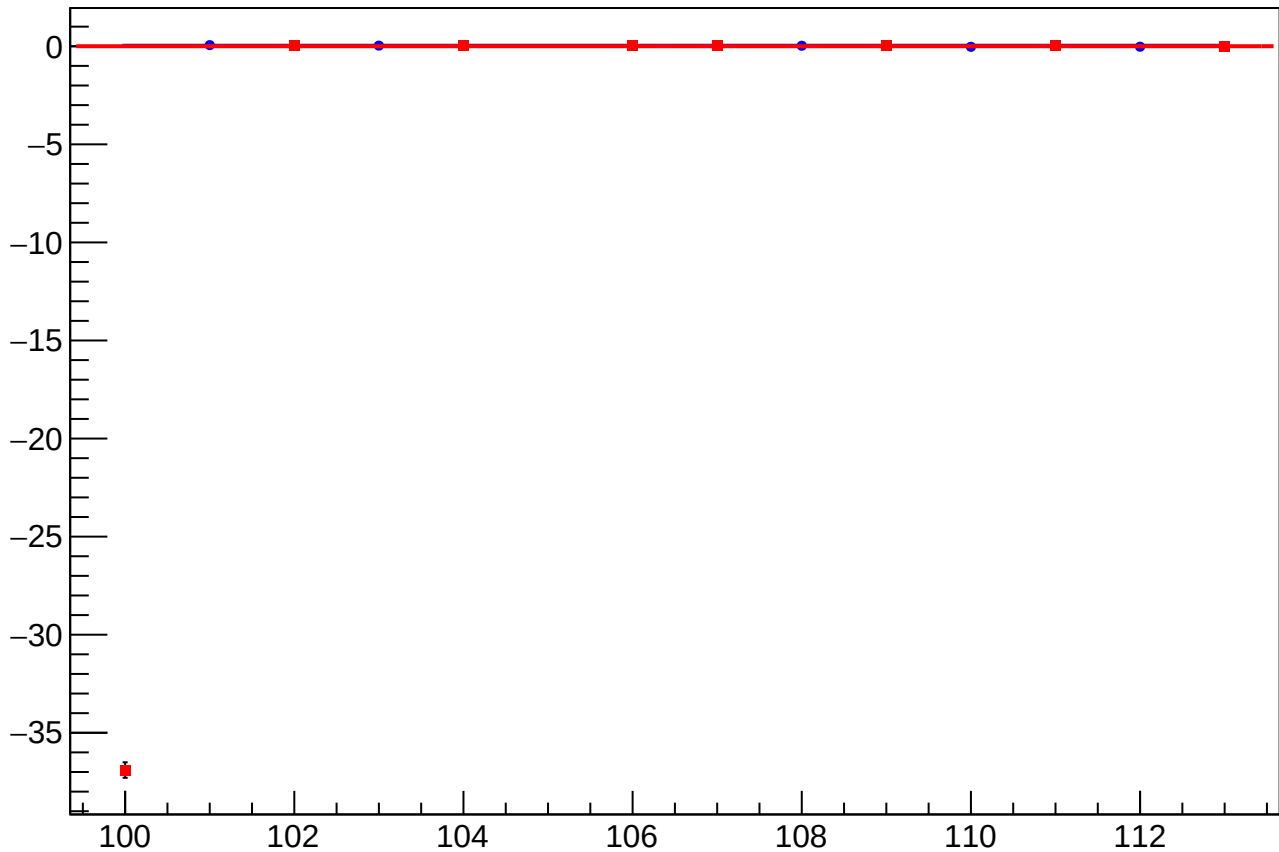
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.430 $\pm$ 0.179  $\chi^2$ /NDF: 22.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug



Right In: 0.026+/-0.012  $\chi^2/\text{NDF}$ : 5.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.010  $\chi^2/\text{NDF}$ : 8743.1/7

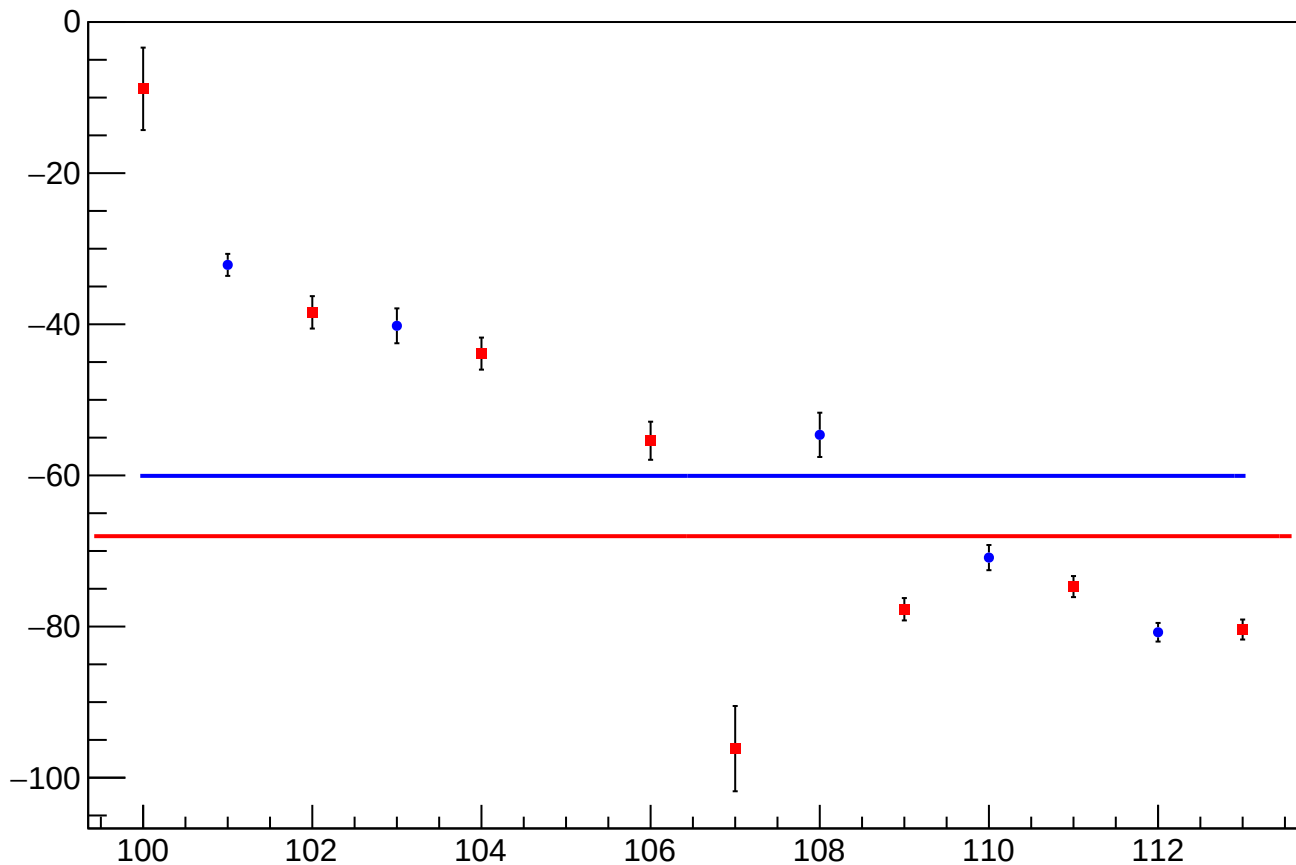
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.008  $\chi^2/\text{NDF}$ : 8750.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -60.059 $\pm$ 0.747  $\chi^2$ /NDF: 769.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -68.040 $\pm$ 0.674  $\chi^2$ /NDF: 640.7/7

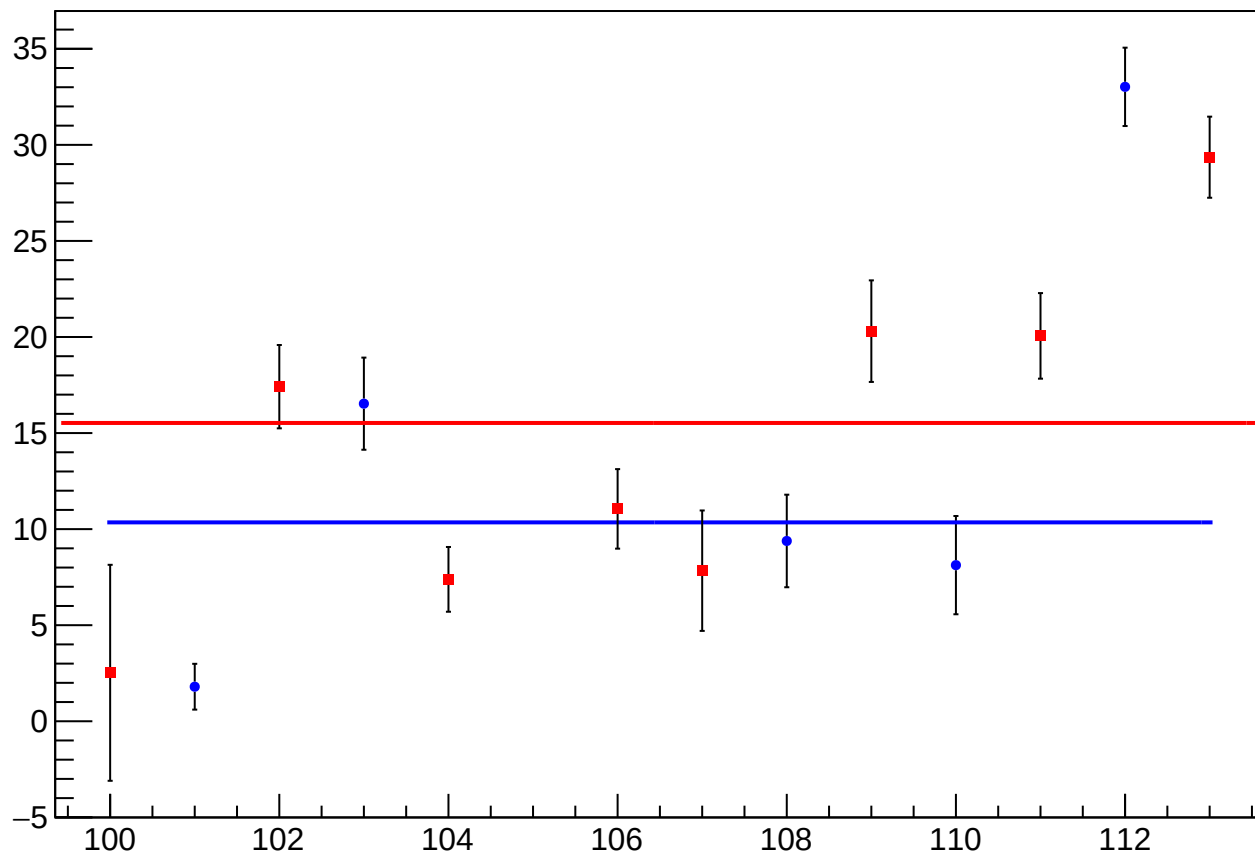
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -64.458 $\pm$ 0.500  $\chi^2$ /NDF: 1472.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 10.351+/-0.832  $\chi^2/\text{NDF}$ : 182.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15.526+/-0.816  $\chi^2/\text{NDF}$ : 90.5/7

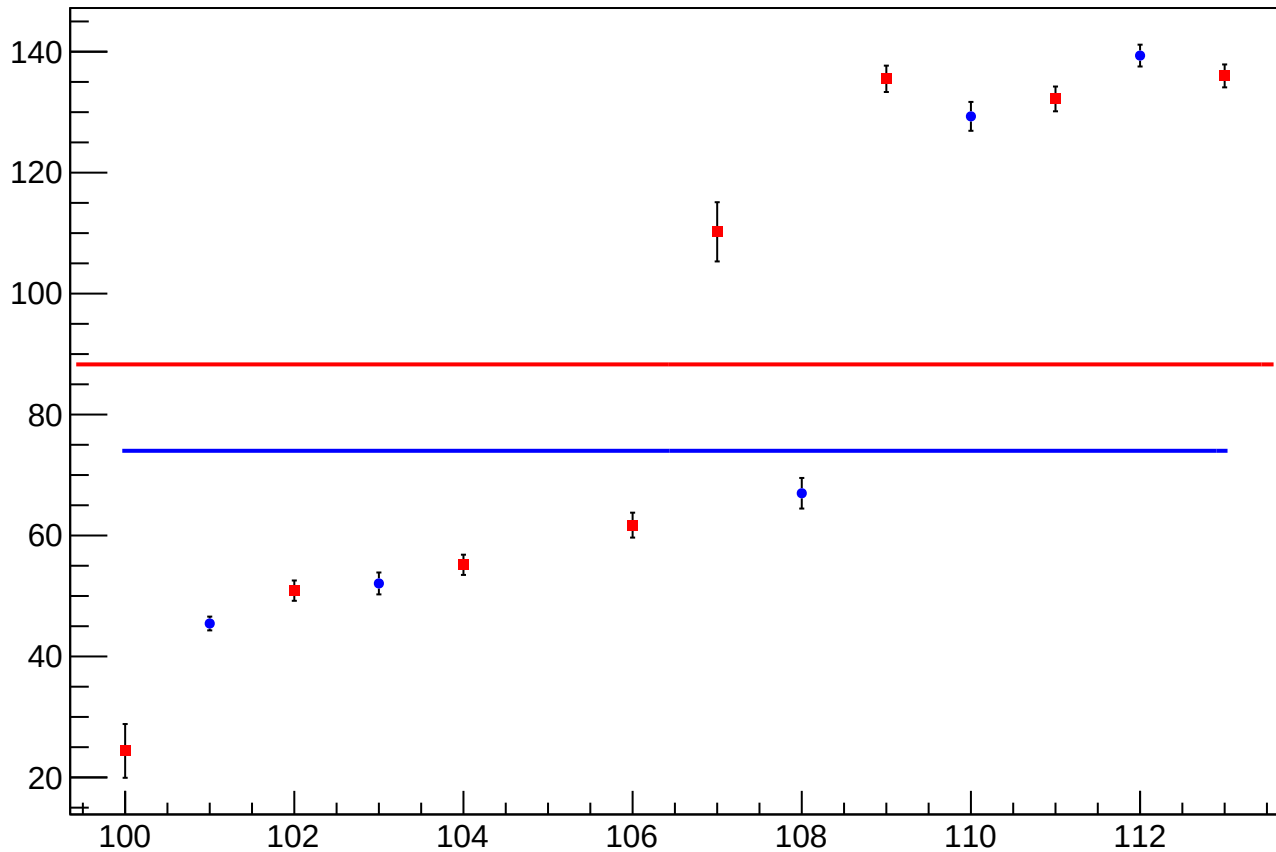
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12.989+/-0.583  $\chi^2/\text{NDF}$ : 292.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 74.007 $\pm$ 0.764  $\chi^2$ /NDF: 2629.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 88.293 $\pm$ 0.752  $\chi^2$ /NDF: 2842.6/7

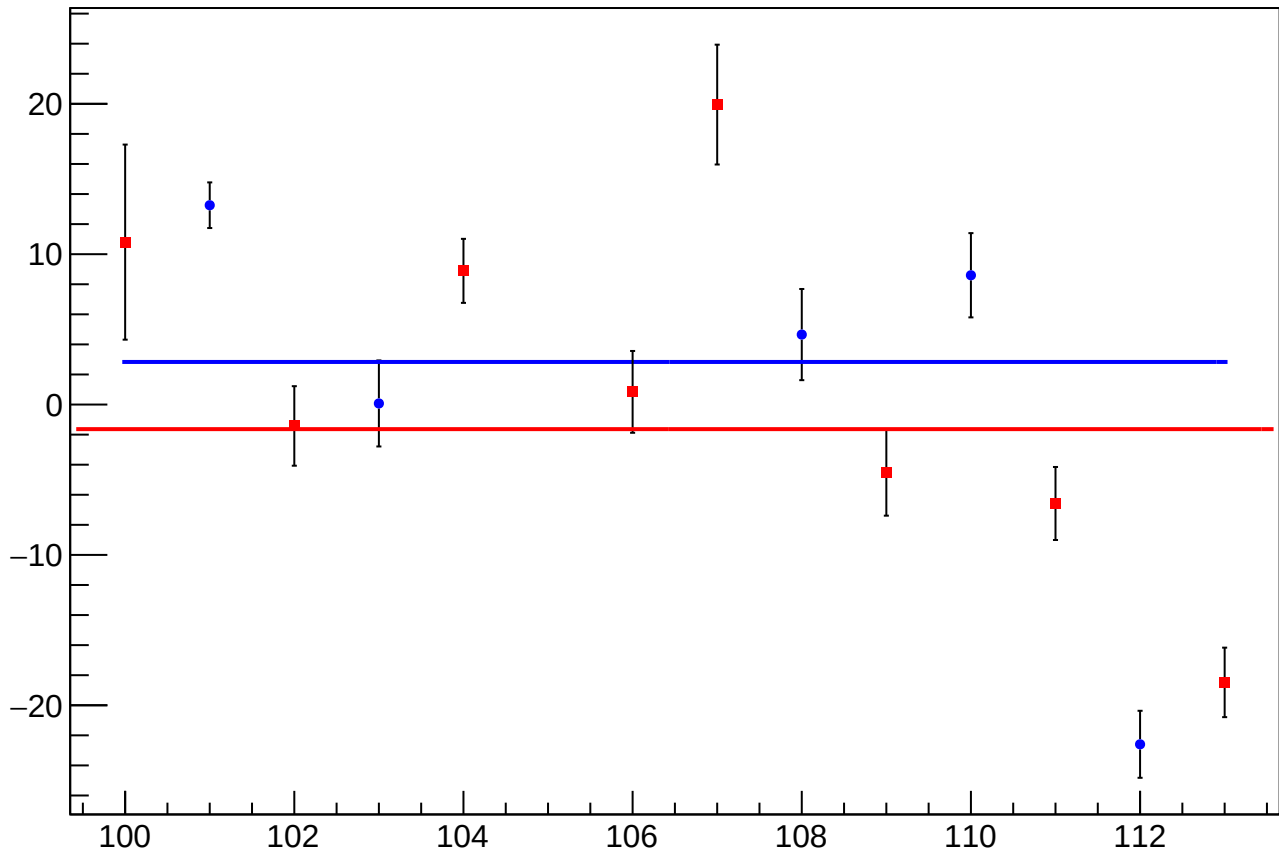
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 81.259 $\pm$ 0.536  $\chi^2$ /NDF: 5649.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 2.833 $\pm$ 1.003  $\chi^2$ /NDF: 183.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.635 $\pm$ 0.970  $\chi^2$ /NDF: 116.6/7

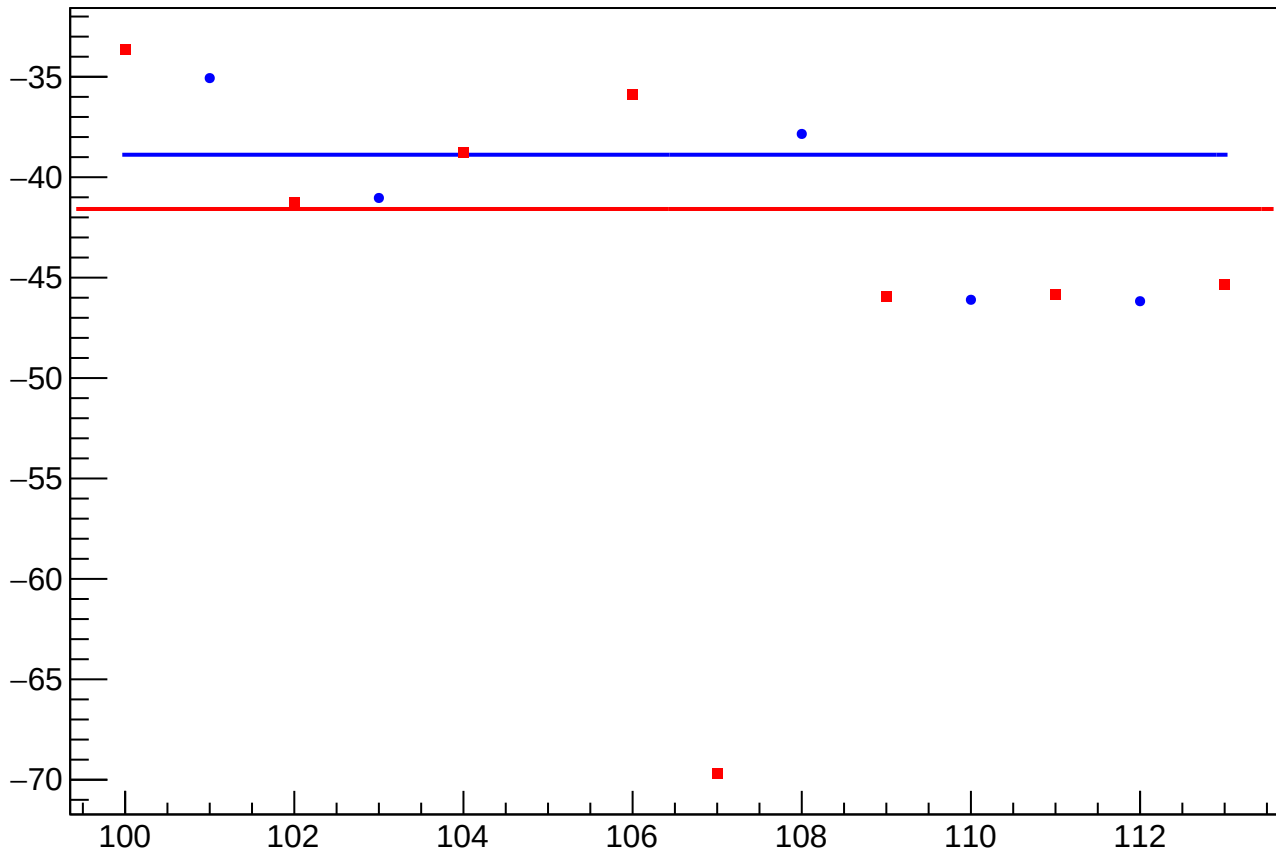
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.523 $\pm$ 0.697  $\chi^2$ /NDF: 309.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -38.880+/-0.042  $\chi^2/\text{NDF}$ : 8053.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -41.582+/-0.040  $\chi^2/\text{NDF}$ : 28143.0/7

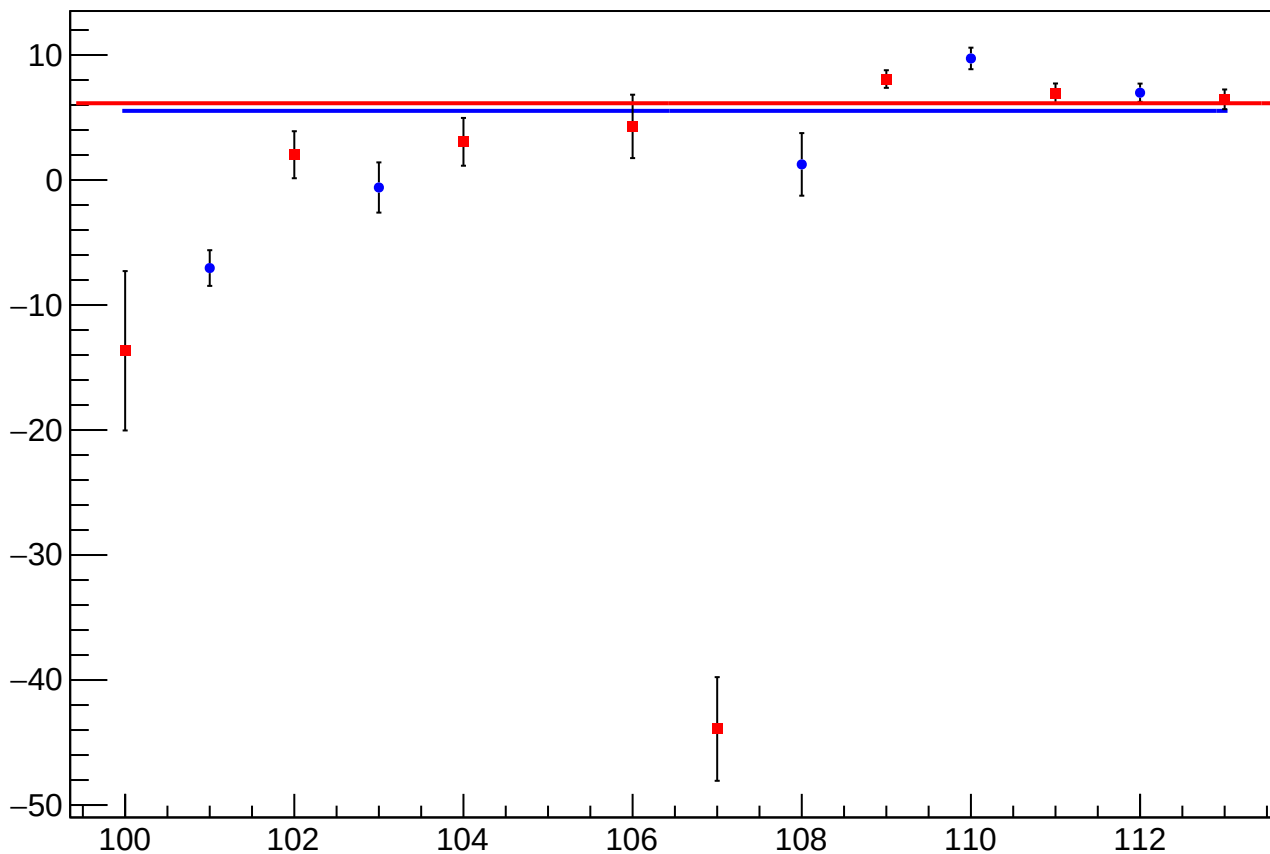
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -40.301+/-0.029  $\chi^2/\text{NDF}$ : 38341.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 5.532 $\pm$ 0.492  $\chi^2$ /NDF: 117.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6.141 $\pm$ 0.407  $\chi^2$ /NDF: 172.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

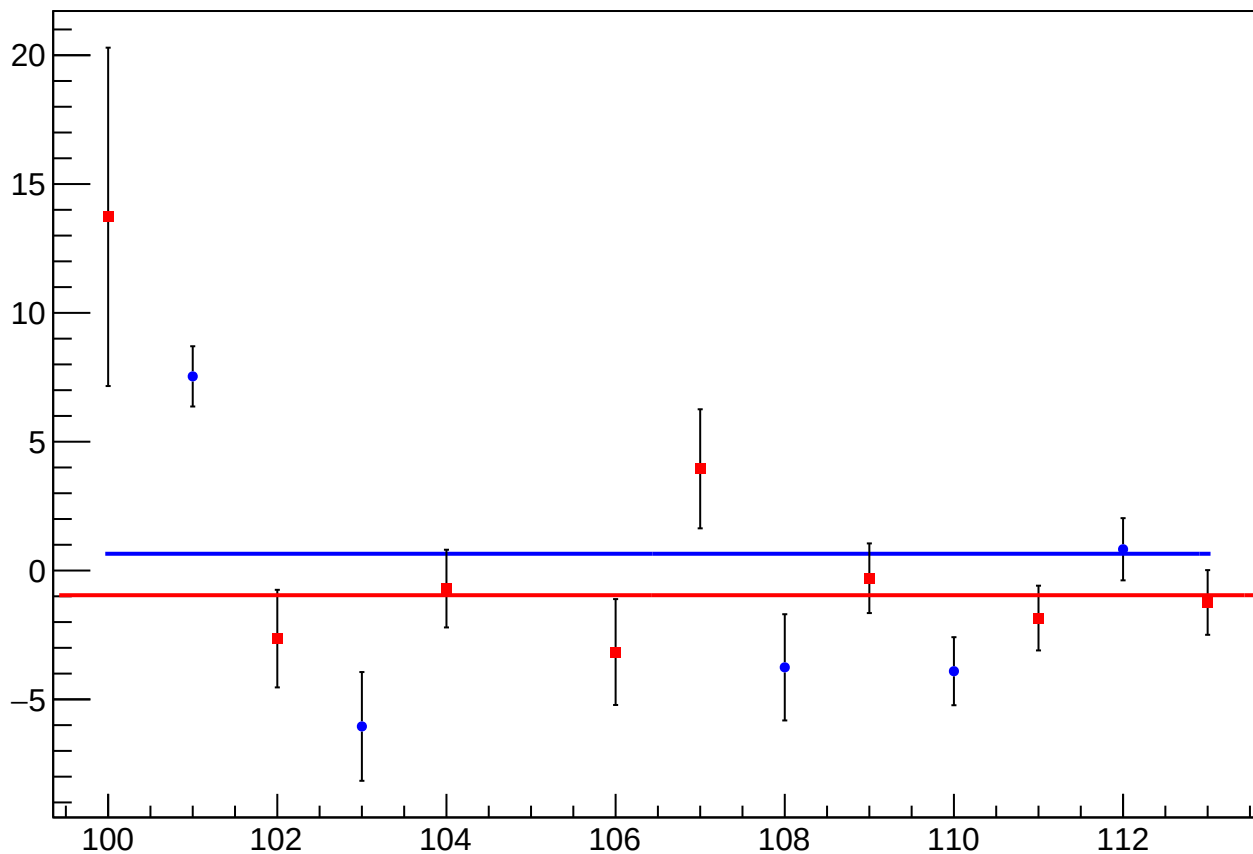
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.894 $\pm$ 0.314  $\chi^2$ /NDF: 290.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.651+/-0.639  $\chi^2/\text{NDF}$ : 61.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.957+/-0.579  $\chi^2/\text{NDF}$ : 12.3/7

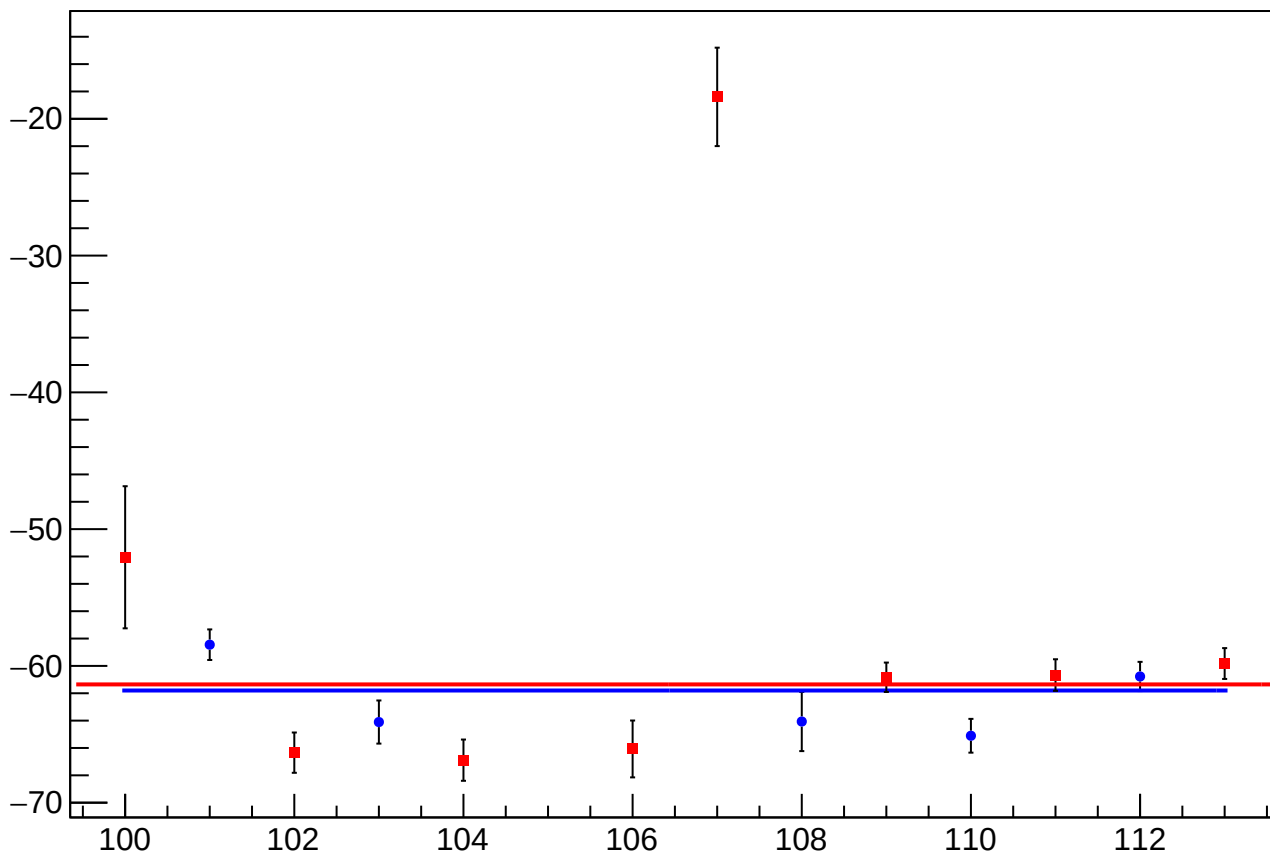
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.232+/-0.429  $\chi^2/\text{NDF}$ : 77.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-61.798 \pm 0.582$   $\chi^2/\text{NDF}$ : 20.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-61.353 \pm 0.524$   $\chi^2/\text{NDF}$ : 178.3/7

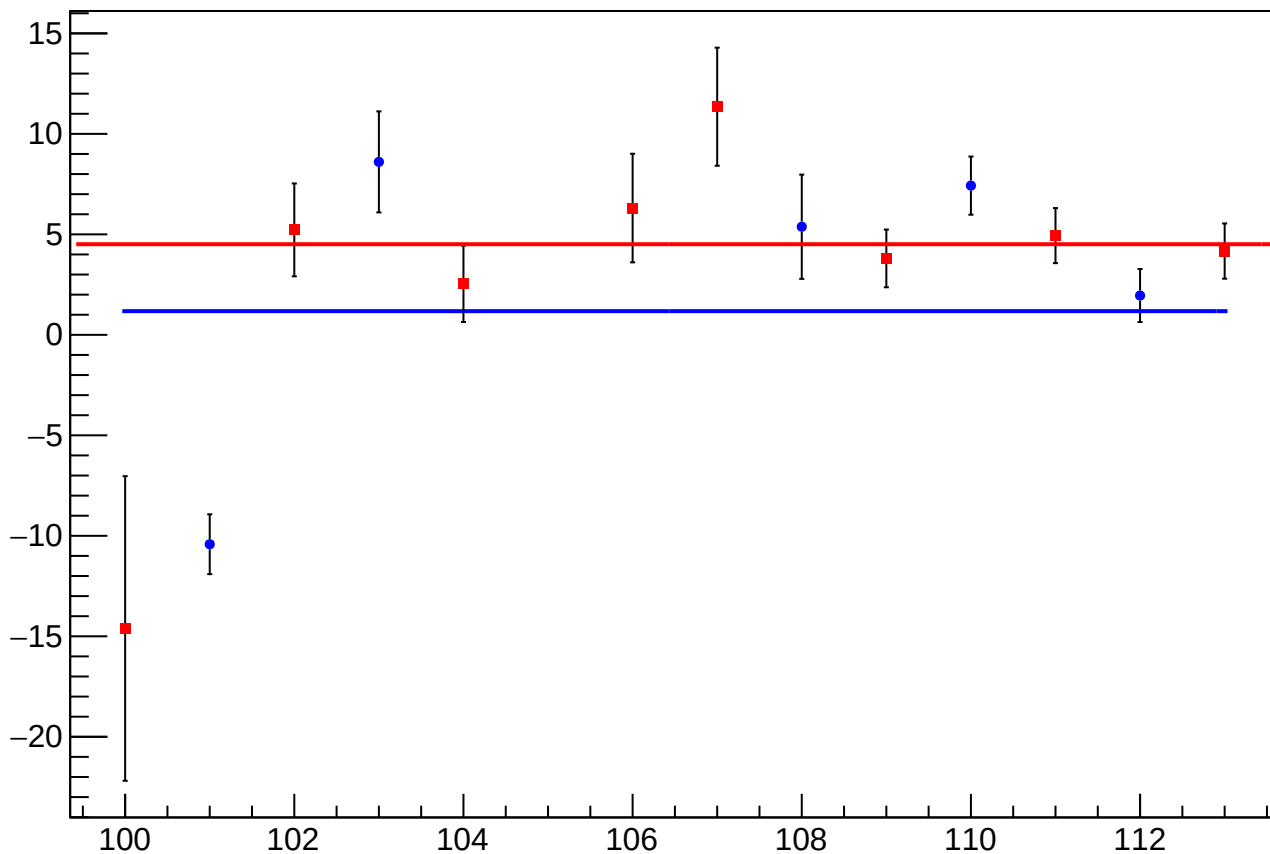
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-61.552 \pm 0.389$   $\chi^2/\text{NDF}$ : 198.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 1.178+/-0.743  $\chi^2/\text{NDF}$ : 91.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.509+/-0.662  $\chi^2/\text{NDF}$ : 13.8/7

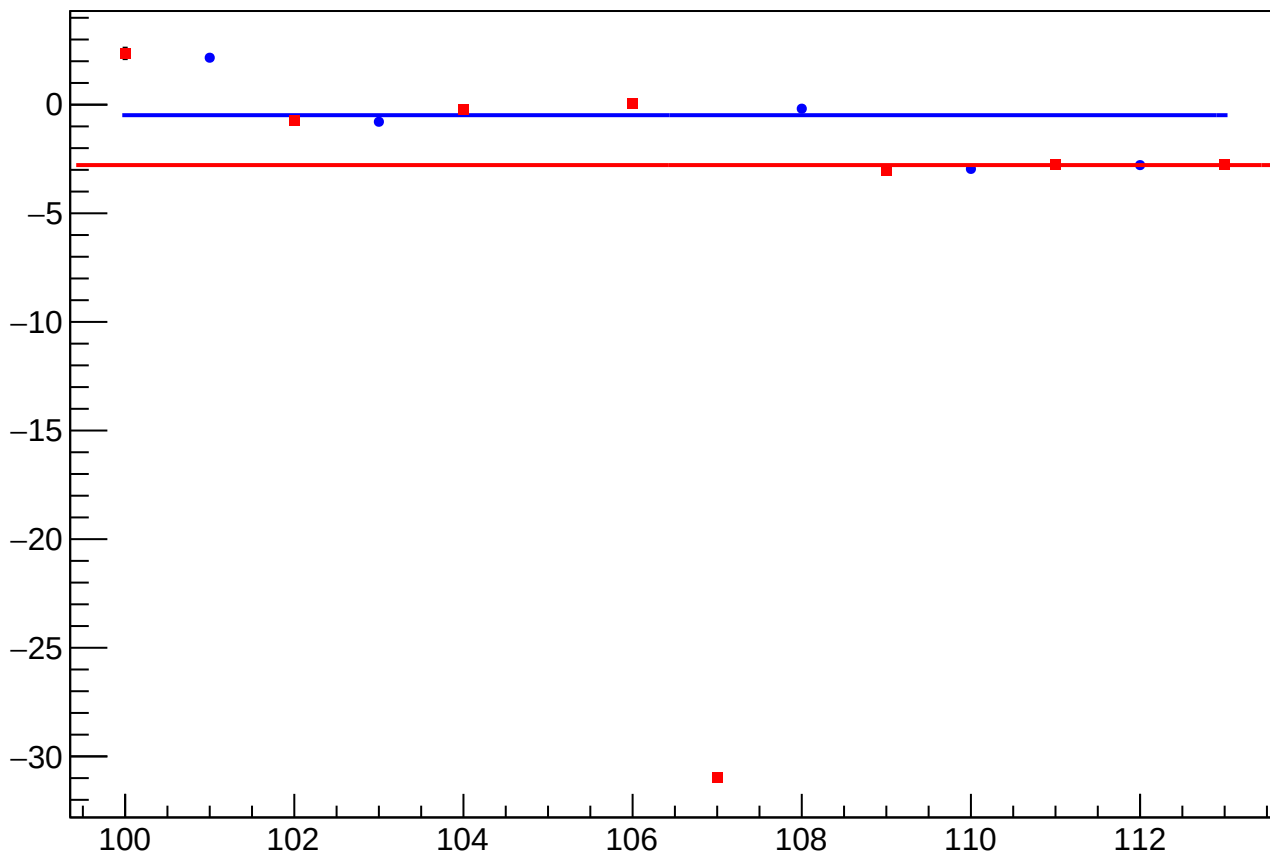
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.035+/-0.494  $\chi^2/\text{NDF}$ : 116.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.483 \pm 0.035$   $\chi^2/\text{NDF}: 2944.1/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-2.780 \pm 0.032$   $\chi^2/\text{NDF}: 40694.0/7$

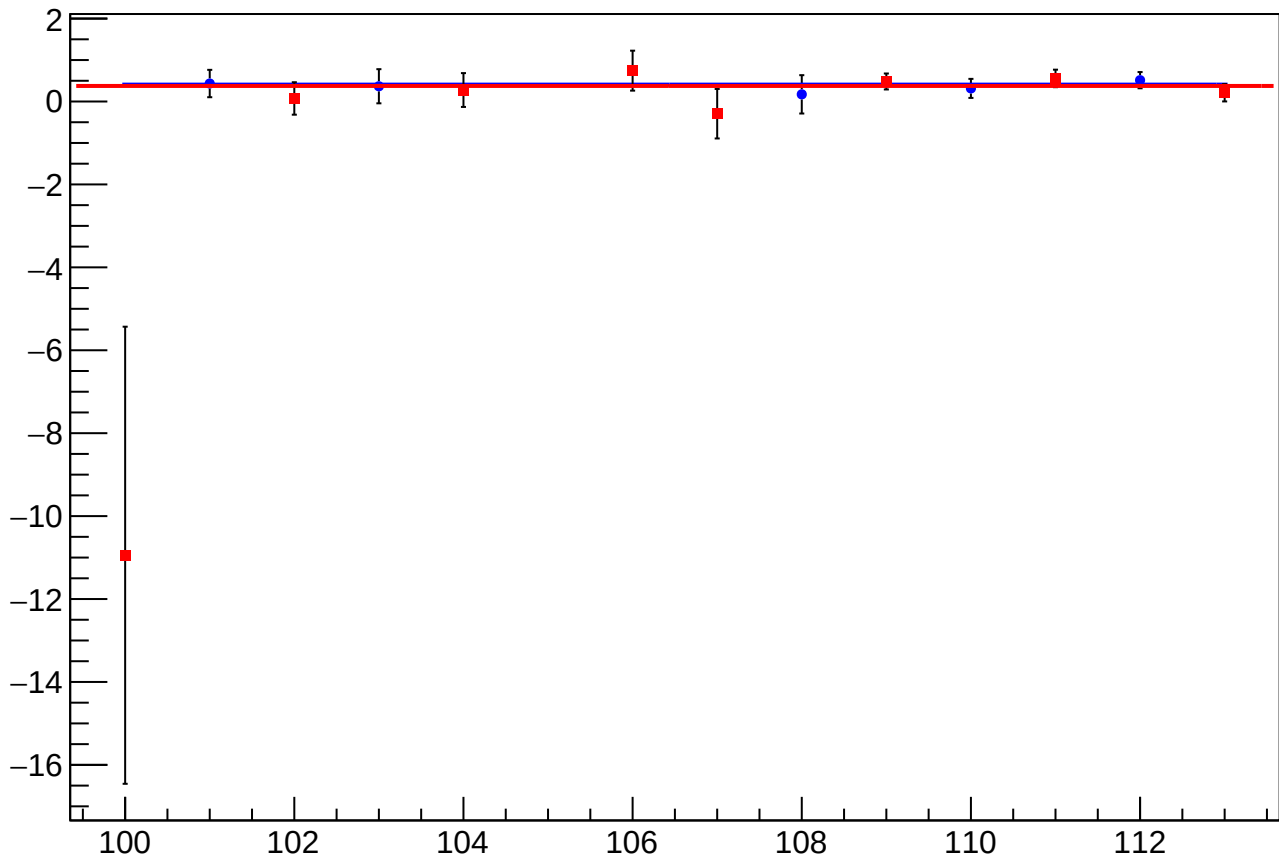
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-1.746 \pm 0.023$   $\chi^2/\text{NDF}: 46021.7/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.407 $\pm$ 0.124  $\chi^2$ /NDF: 0.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.375 $\pm$ 0.104  $\chi^2$ /NDF: 8.4/7

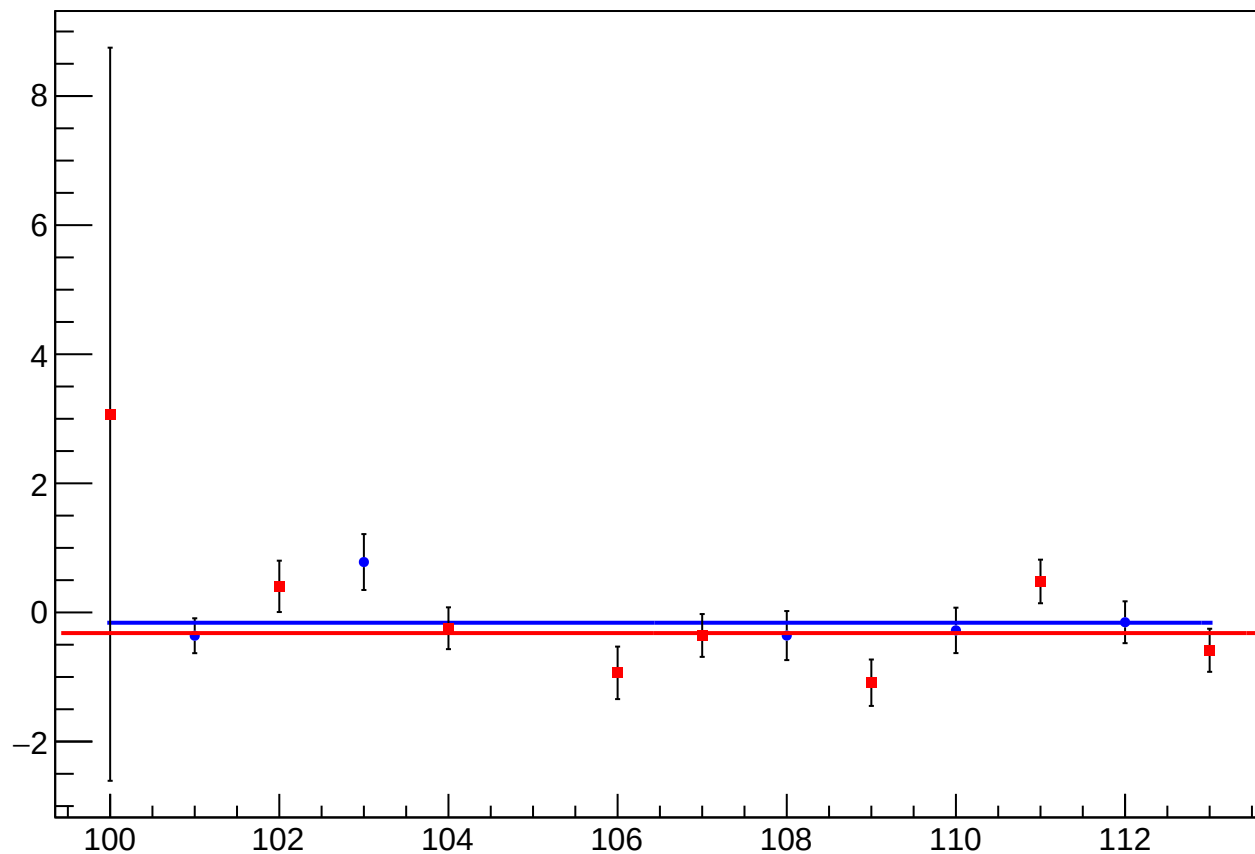
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.388 $\pm$ 0.080  $\chi^2$ /NDF: 9.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -0.160 $\pm$ 0.152  $\chi^2/\text{NDF}$ : 5.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.320 $\pm$ 0.133  $\chi^2/\text{NDF}$ : 16.8/7

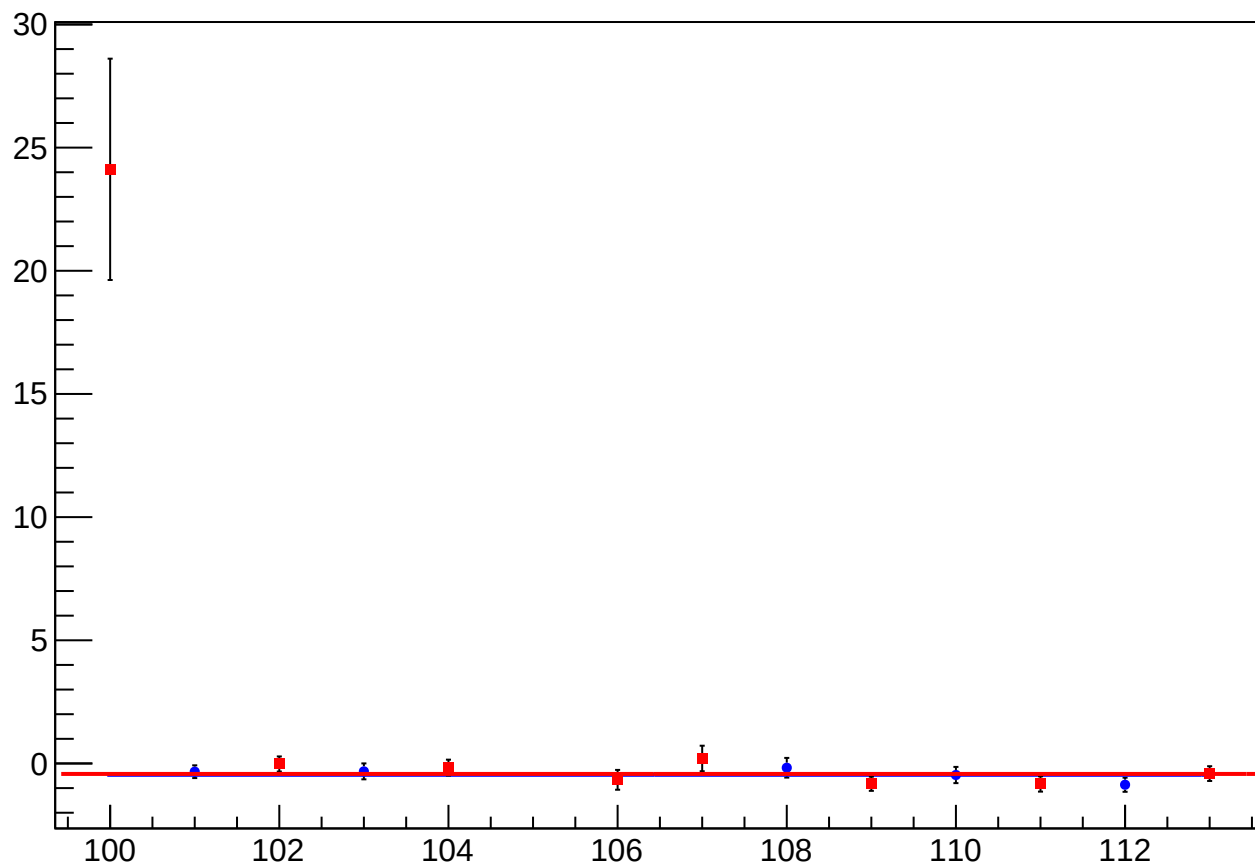
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.250 $\pm$ 0.100  $\chi^2/\text{NDF}$ : 23.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.460 \pm 0.138$   $\chi^2/\text{NDF}$ : 2.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.425 \pm 0.125$   $\chi^2/\text{NDF}$ : 37.7/7

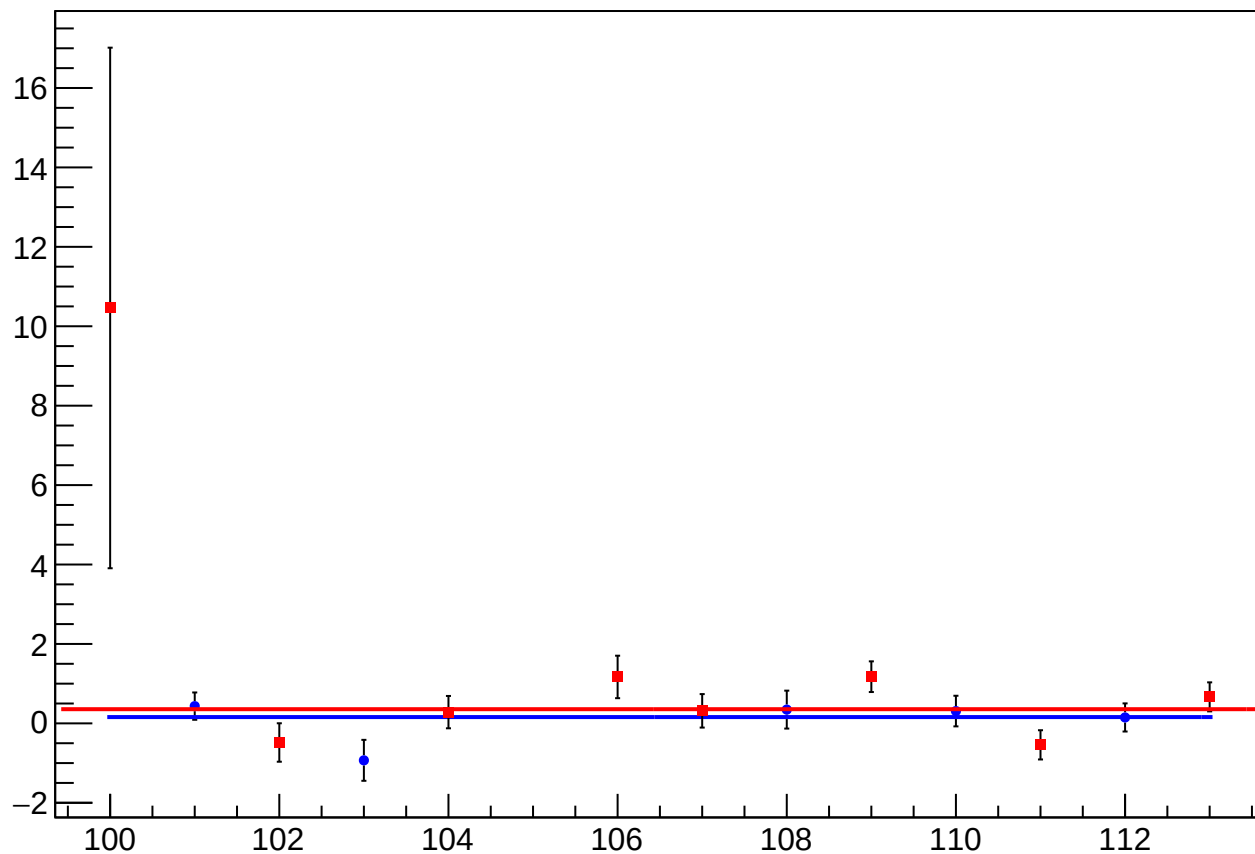
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.441 \pm 0.093$   $\chi^2/\text{NDF}$ : 40.6/12

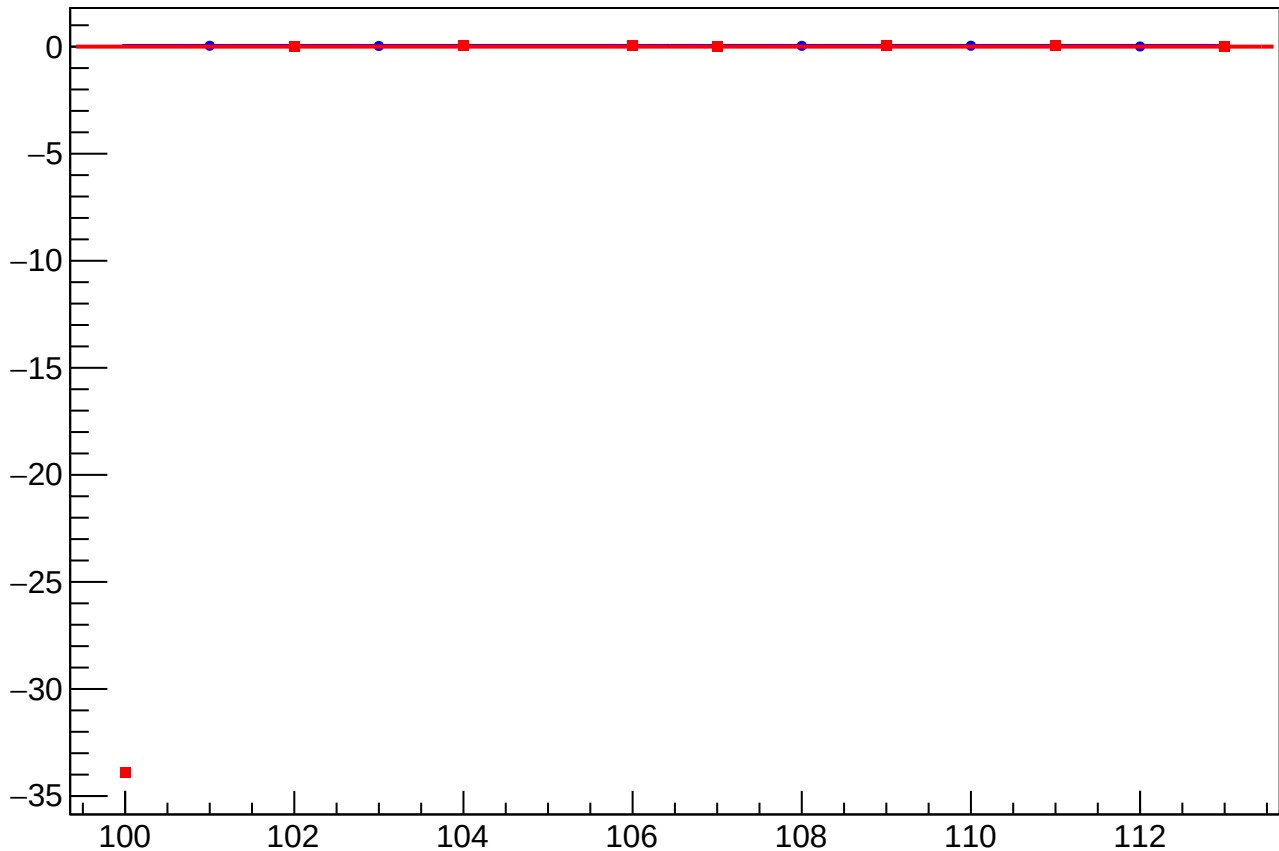
- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug





# reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.033+/-0.008  $\chi^2/\text{NDF}$ : 1.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.007  $\chi^2/\text{NDF}$ : 22251.2/7

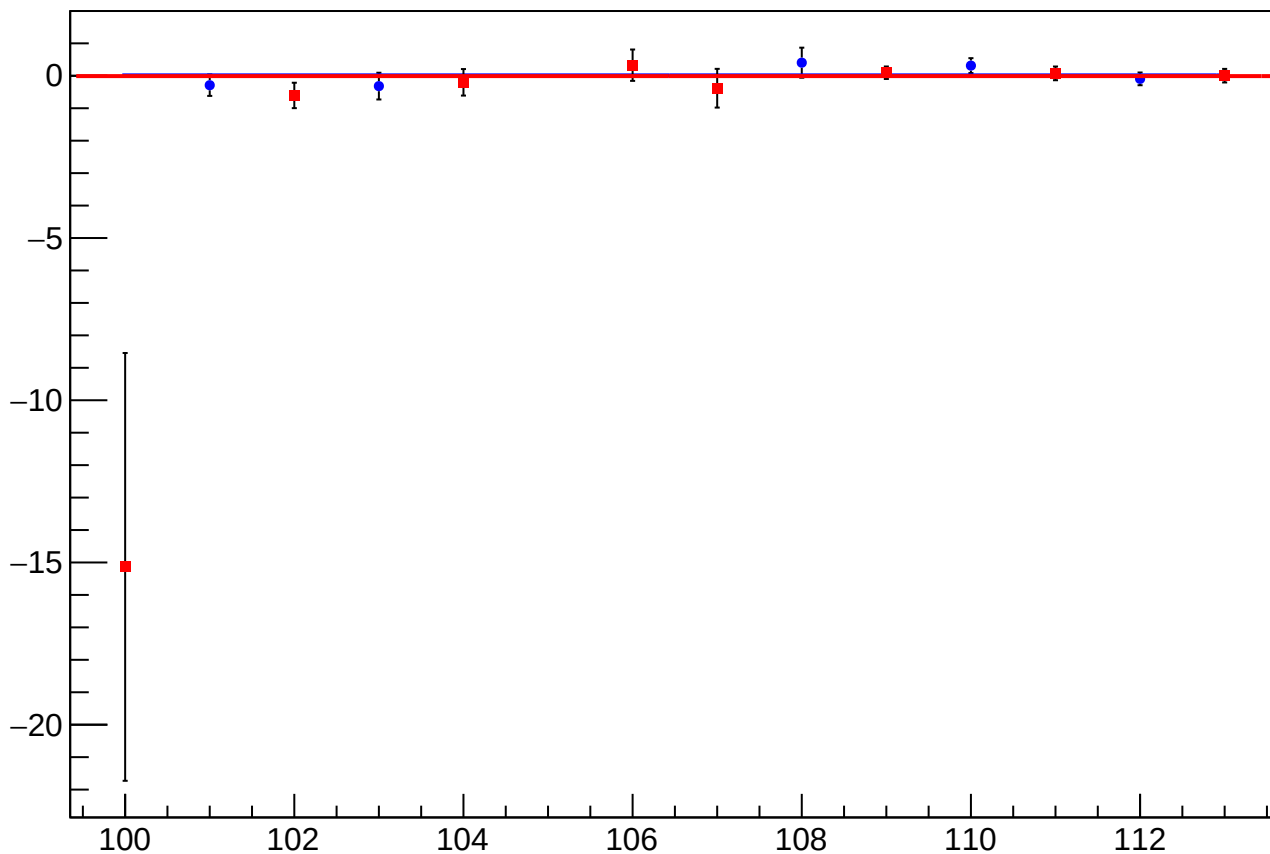
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.005  $\chi^2/\text{NDF}$ : 22262.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.013 $\pm$ 0.124  $\chi^2$ /NDF: 4.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.010 $\pm$ 0.104  $\chi^2$ /NDF: 9.1/7

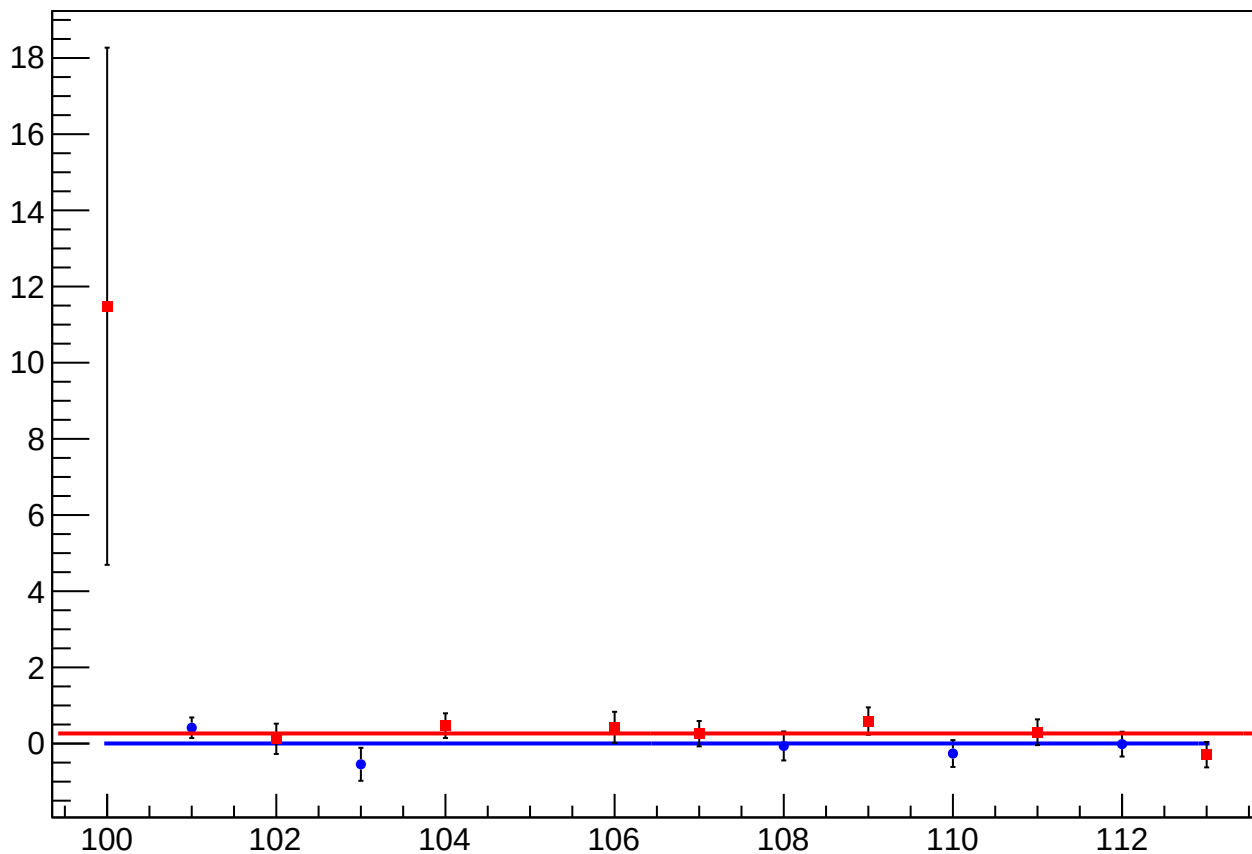
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.080  $\chi^2$ /NDF: 13.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.002 $\pm$ 0.152  $\chi^2$ /NDF: 4.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.265 $\pm$ 0.133  $\chi^2$ /NDF: 7.0/7

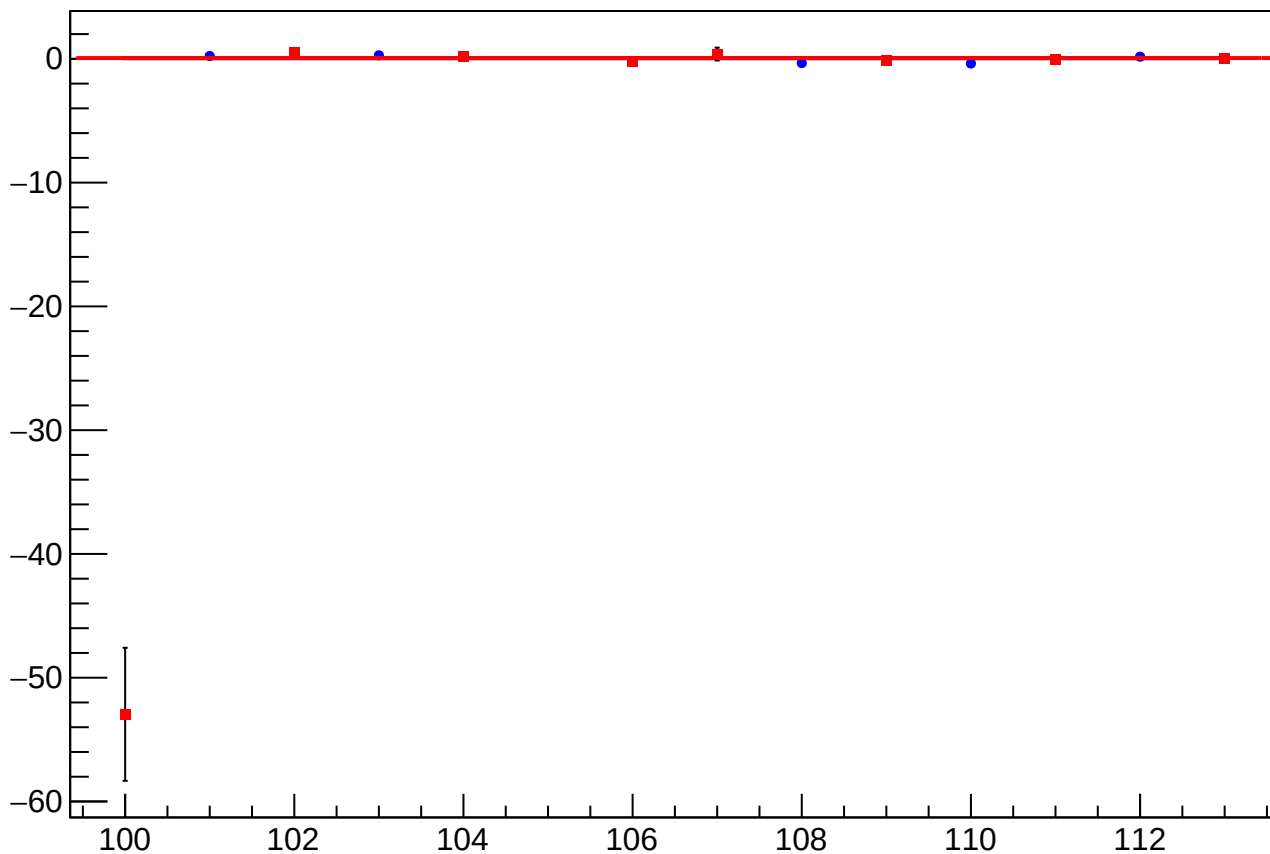
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.151 $\pm$ 0.100  $\chi^2$ /NDF: 13.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.052 $\pm$ 0.138  $\chi^2$ /NDF: 3.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.064 $\pm$ 0.125  $\chi^2$ /NDF: 100.8/7

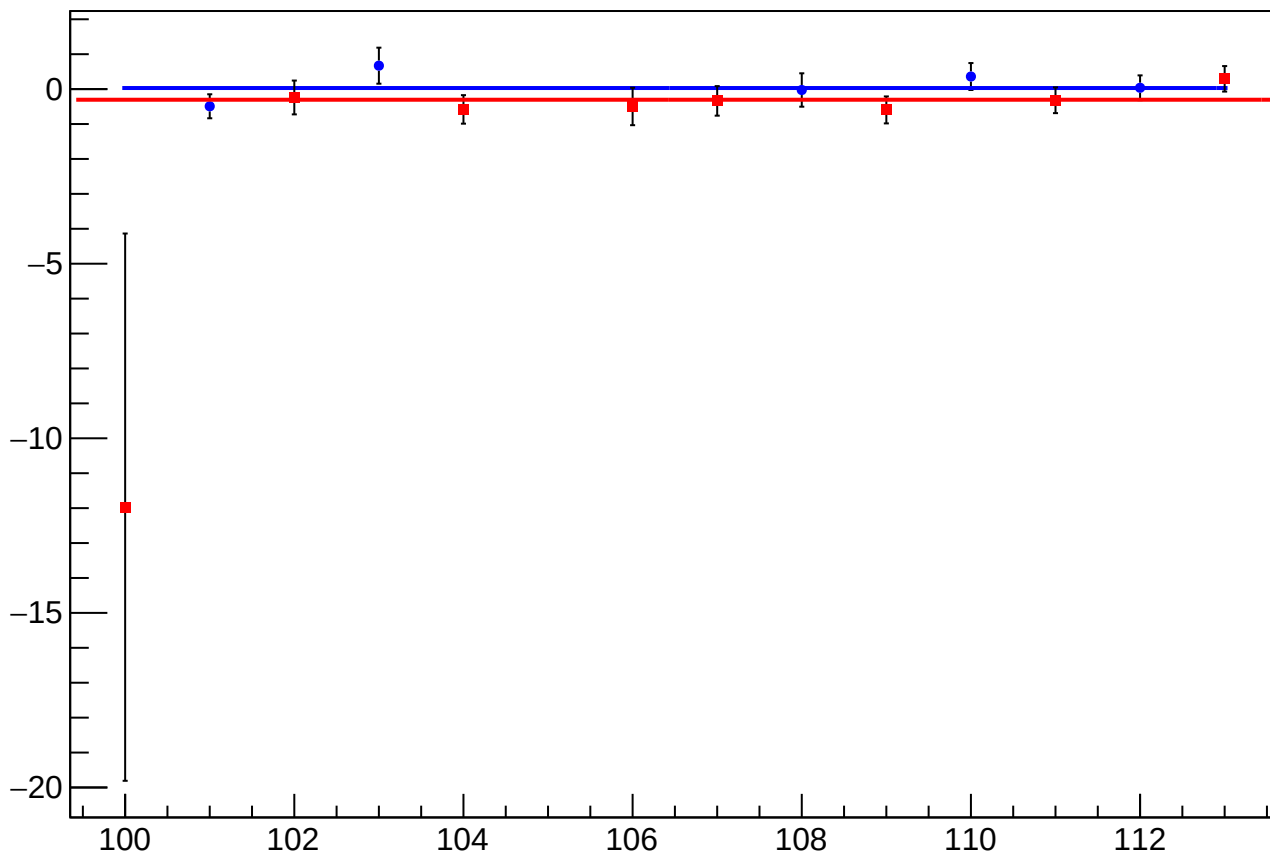
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.058 $\pm$ 0.093  $\chi^2$ /NDF: 104.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.031 $\pm$ 0.179  $\chi^2$ /NDF: 4.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.304 $\pm$ 0.156  $\chi^2$ /NDF: 6.1/7

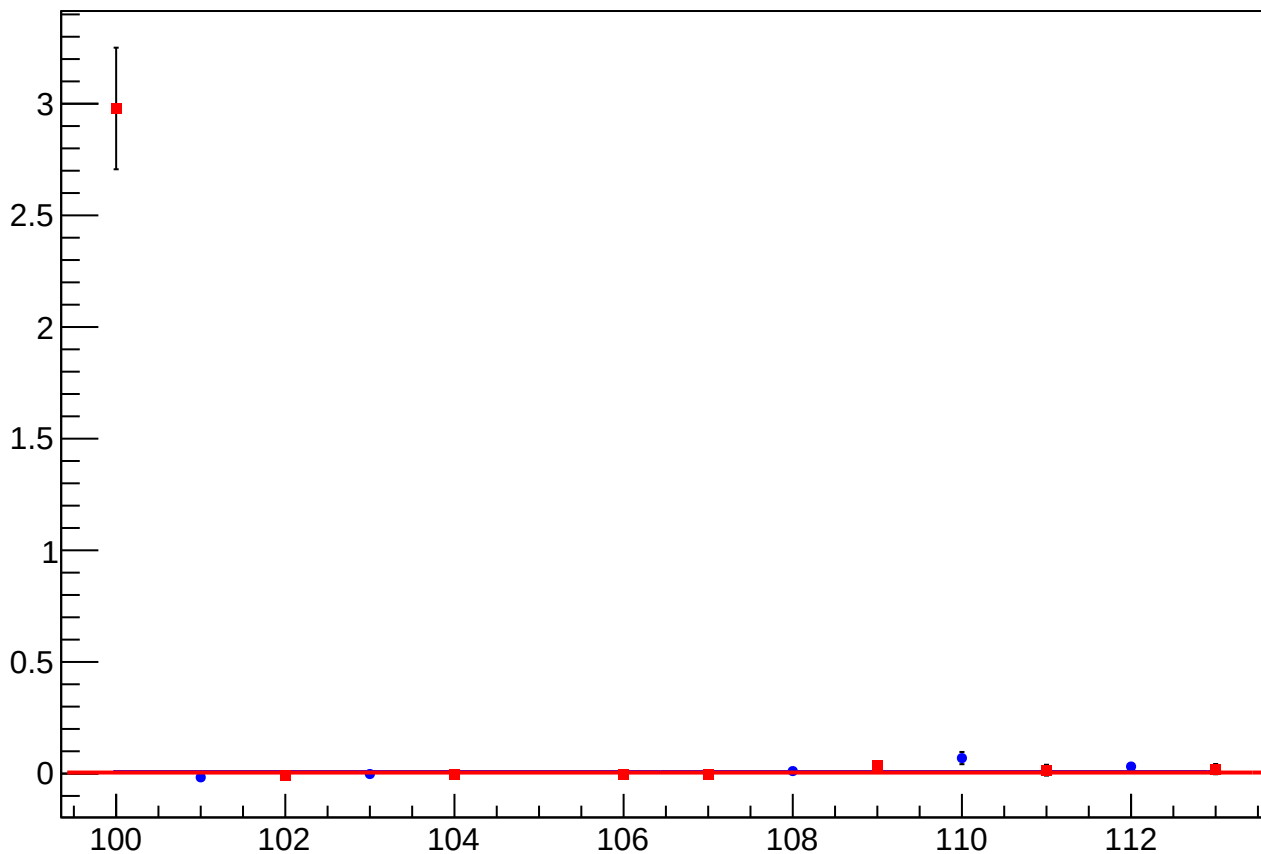
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.159 $\pm$ 0.118  $\chi^2$ /NDF: 12.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.007 $\pm$ 0.008  $\chi^2$ /NDF: 9.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.007  $\chi^2$ /NDF: 123.8/7

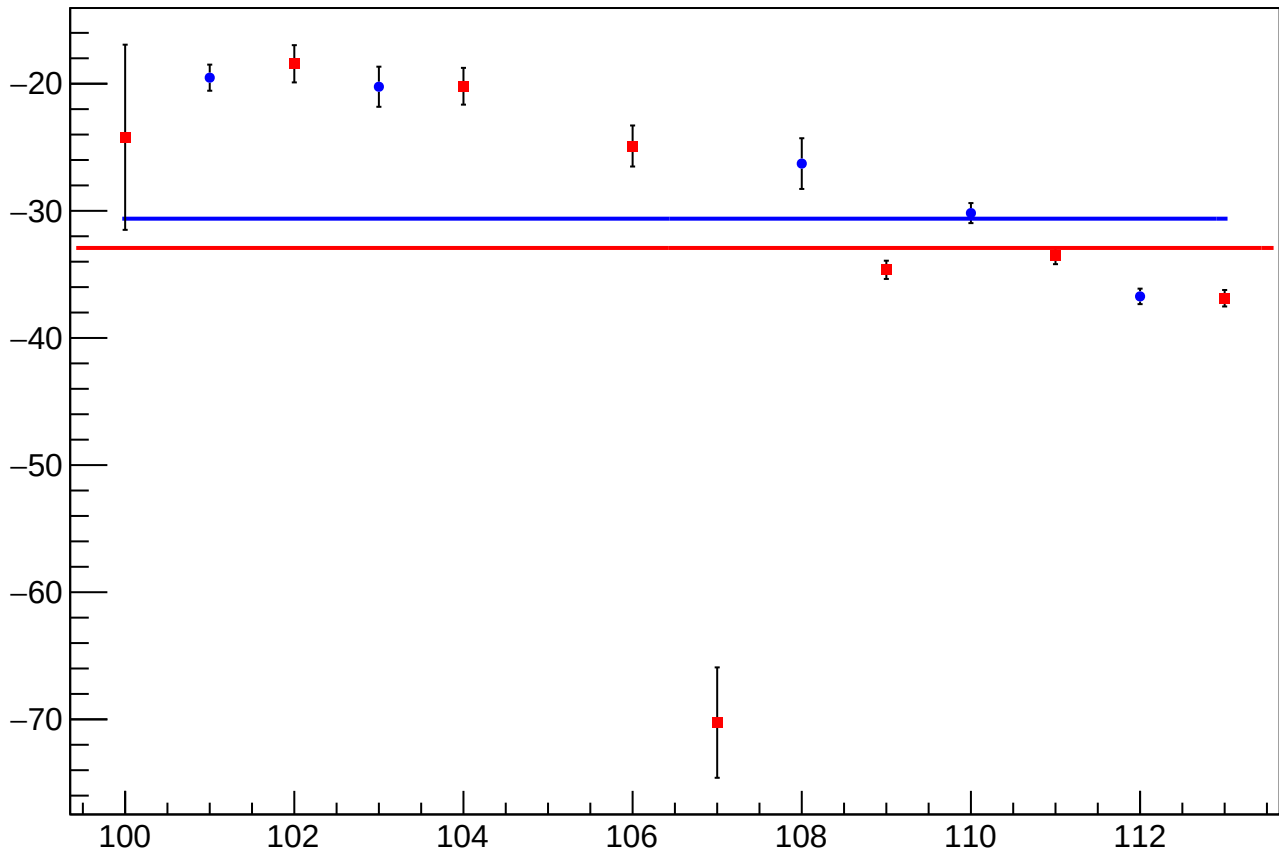
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.005  $\chi^2$ /NDF: 133.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -30.616 $\pm$ 0.411  $\chi^2$ /NDF: 265.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -32.920 $\pm$ 0.355  $\chi^2$ /NDF: 319.0/7

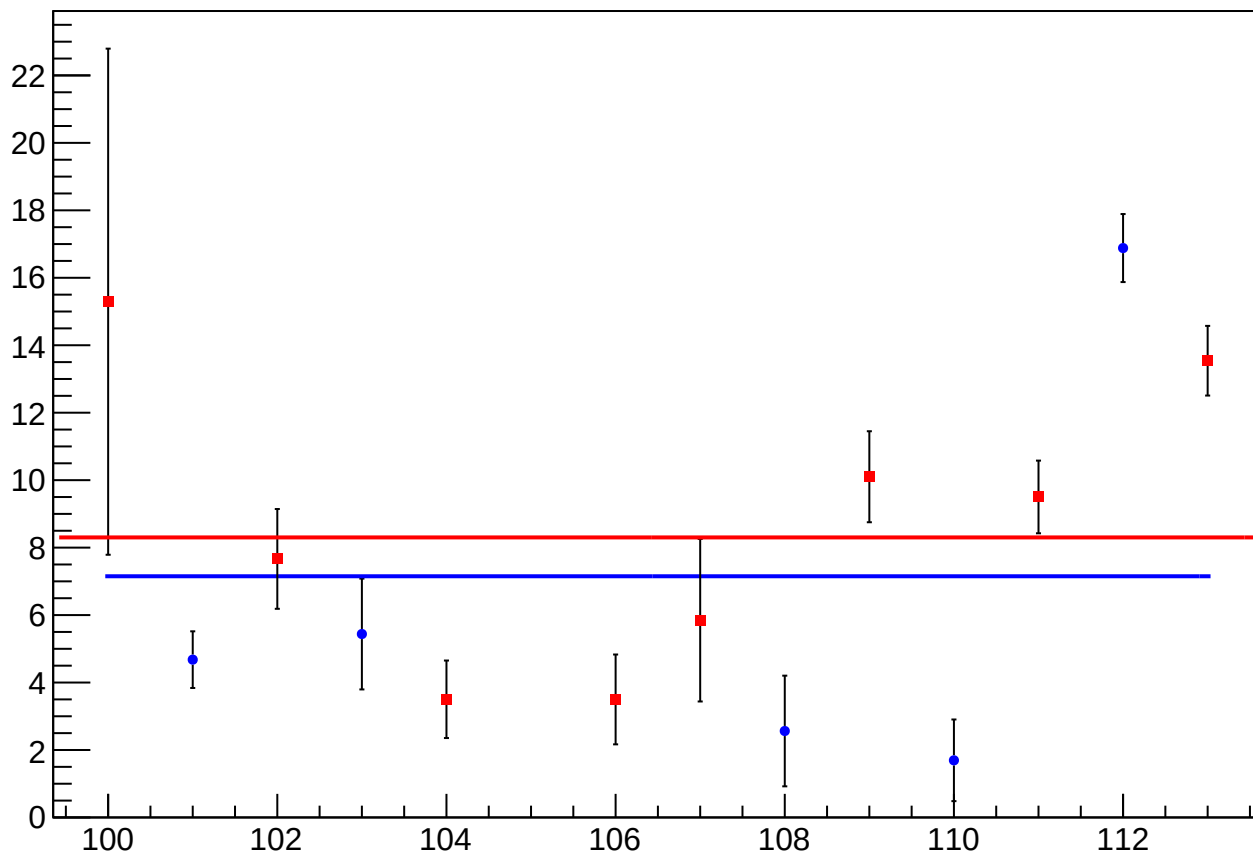
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -31.936 $\pm$ 0.269  $\chi^2$ /NDF: 602.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 7.151+/-0.511  $\chi^2/\text{NDF}$ : 131.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.302+/-0.481  $\chi^2/\text{NDF}$ : 61.3/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

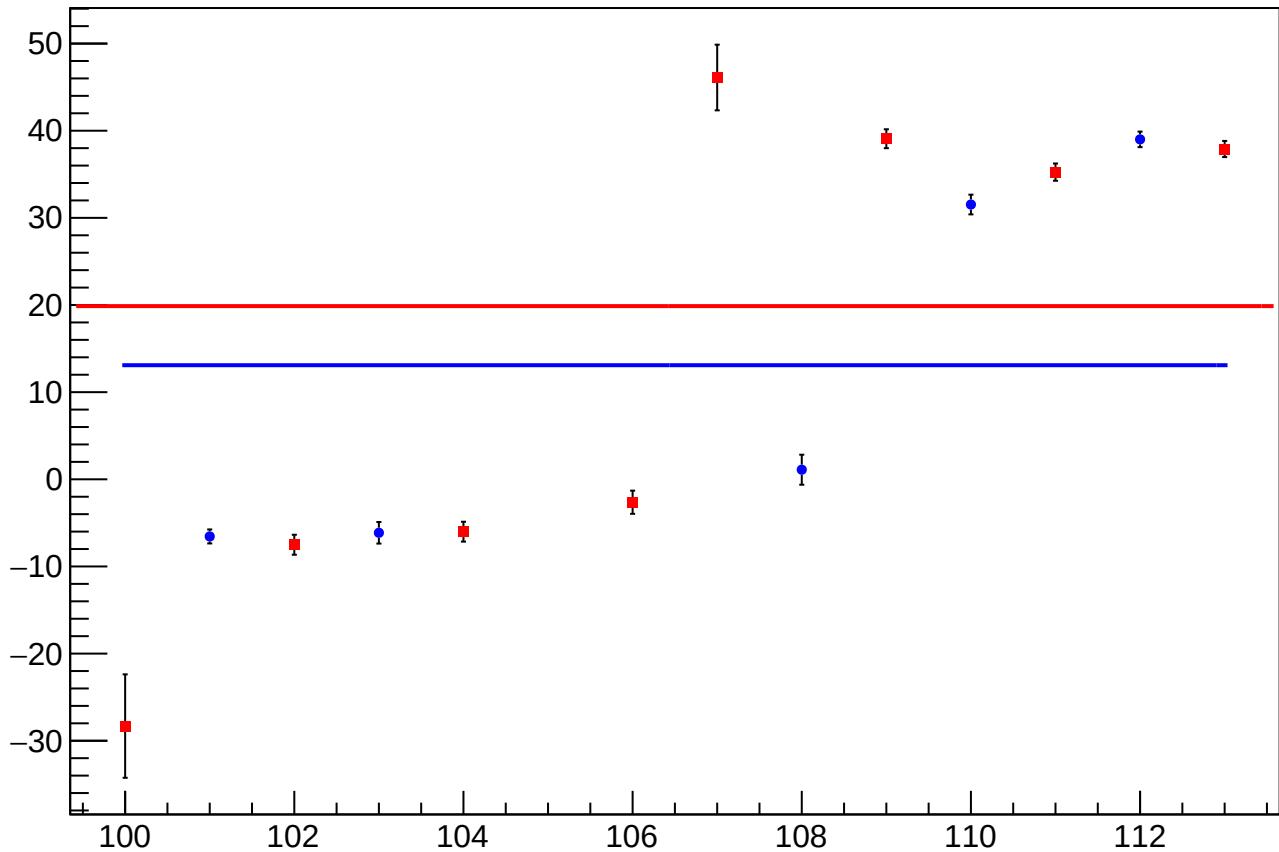
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.761+/-0.350  $\chi^2/\text{NDF}$ : 195.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 13.093 $\pm$ 0.467  $\chi^2$ /NDF: 1998.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.874 $\pm$ 0.438  $\chi^2$ /NDF: 2416.4/7

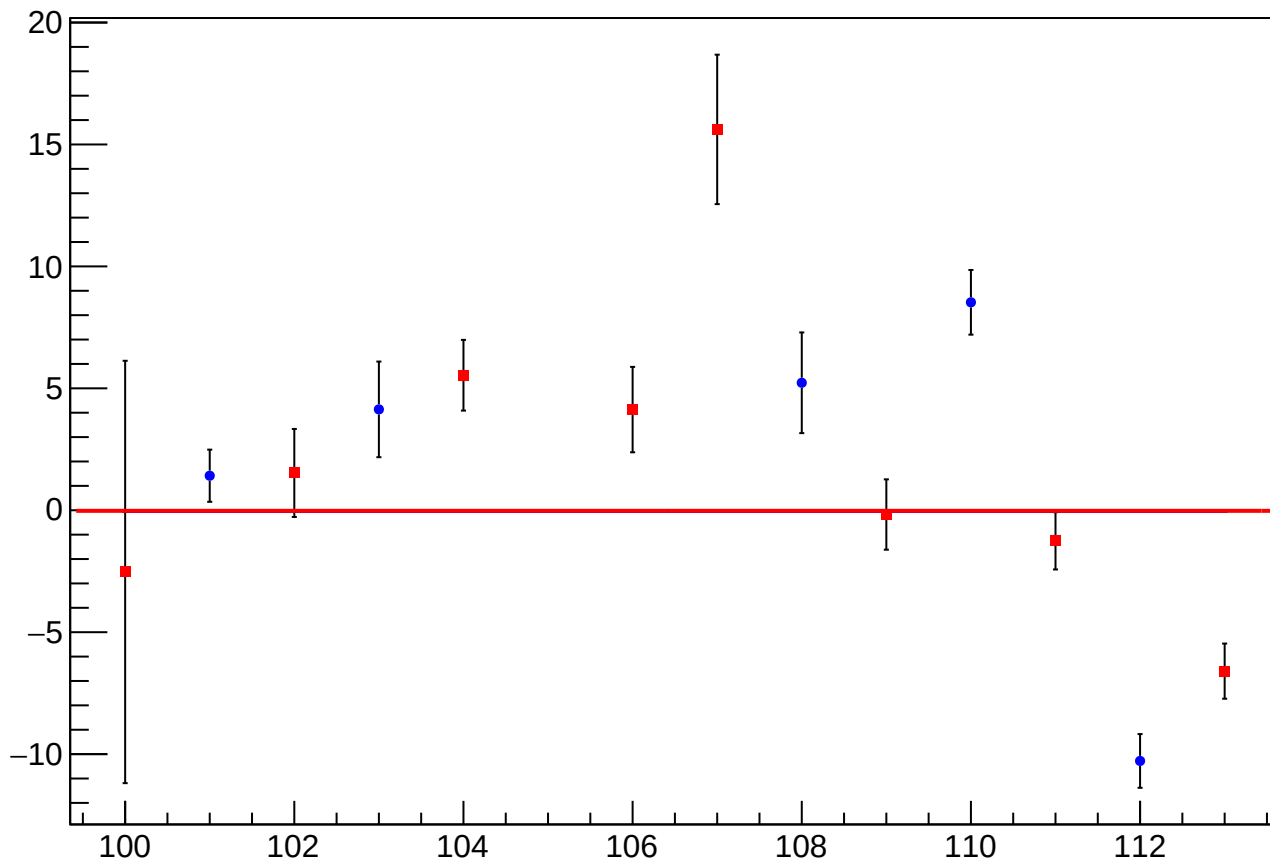
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.706 $\pm$ 0.319  $\chi^2$ /NDF: 4526.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -0.030+/-0.602  $\chi^2/\text{NDF}$ : 141.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.023+/-0.558  $\chi^2/\text{NDF}$ : 82.1/7

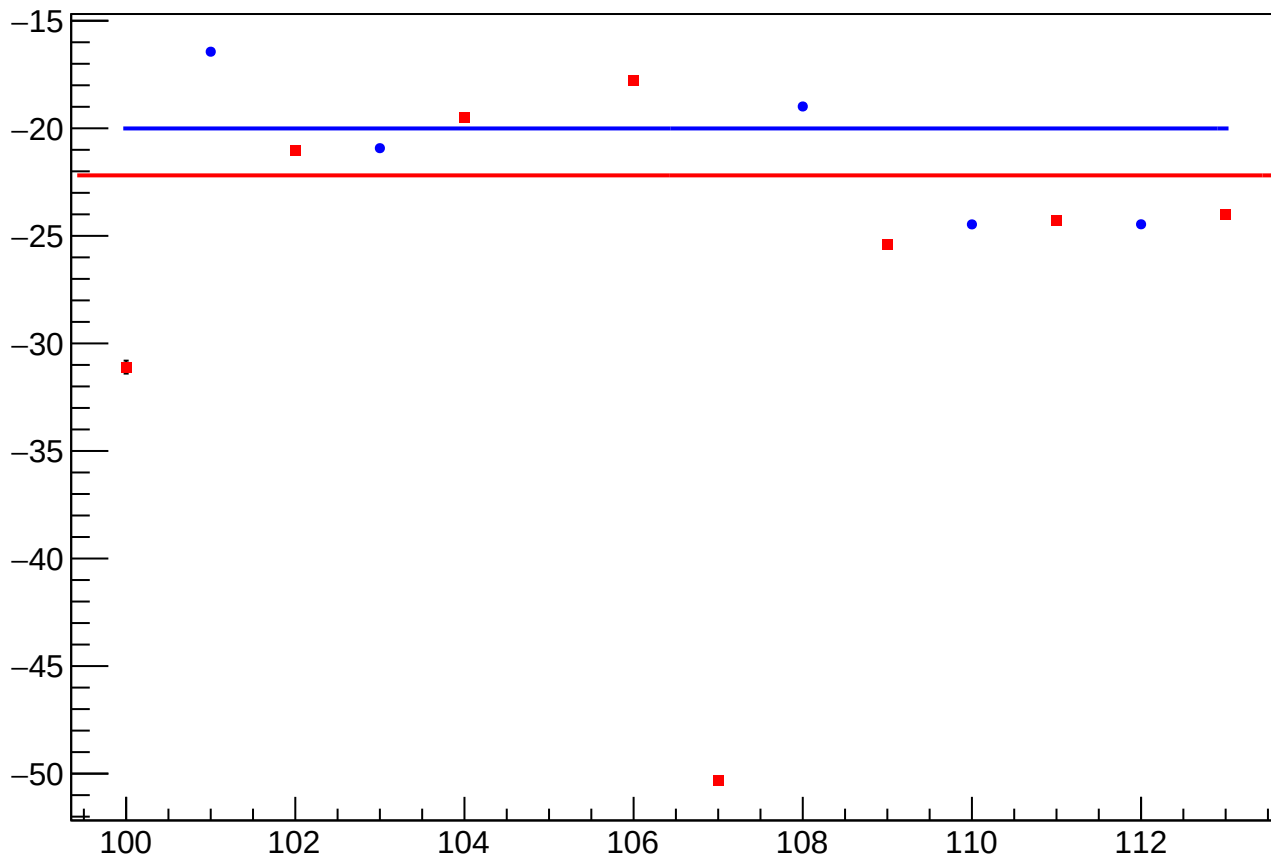
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.027+/-0.409  $\chi^2/\text{NDF}$ : 223.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-20.006 \pm 0.027$   $\chi^2/\text{NDF}$ : 12415.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-22.188 \pm 0.025$   $\chi^2/\text{NDF}$ : 45735.7/7

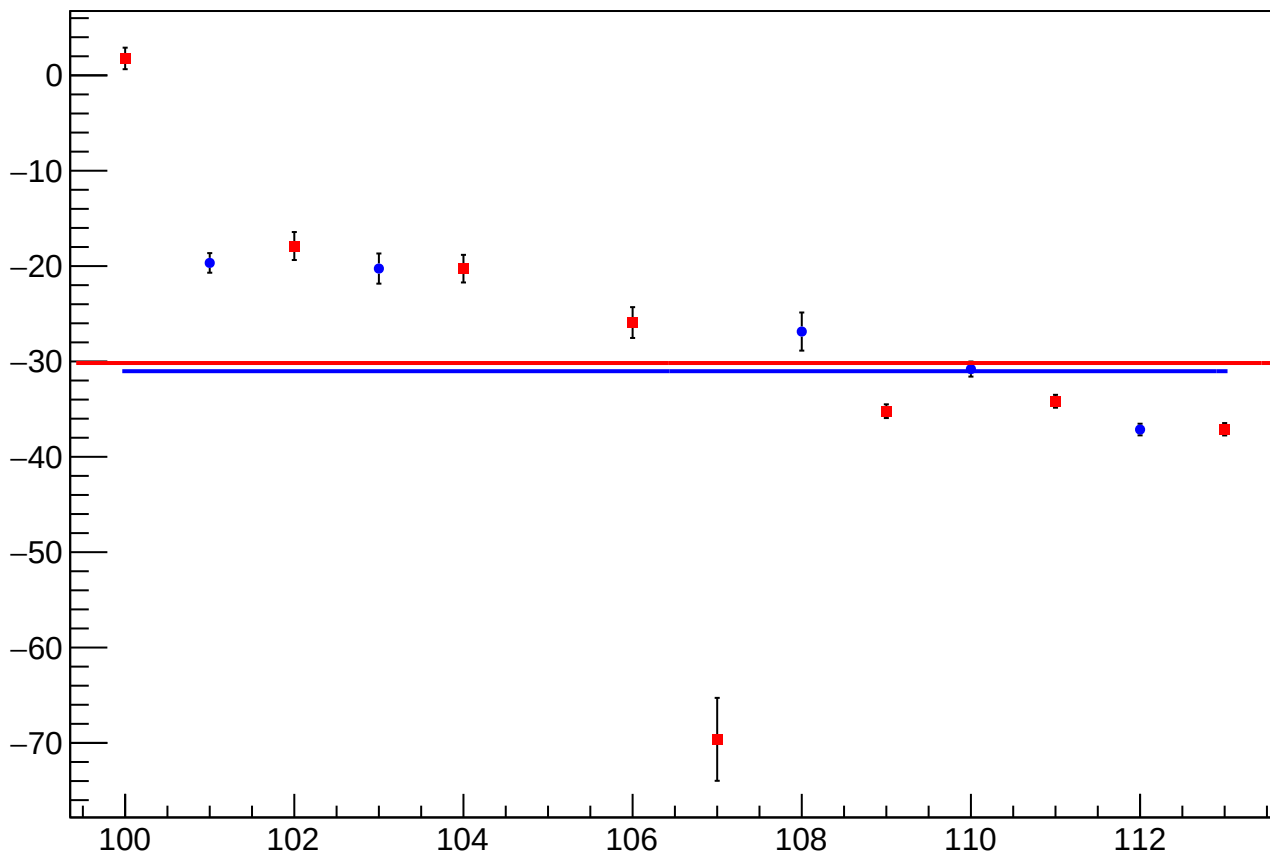
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-21.186 \pm 0.019$   $\chi^2/\text{NDF}$ : 61569.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-31.022 \pm 0.412$   $\chi^2/\text{NDF}$ : 273.2/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-30.164 \pm 0.340$   $\chi^2/\text{NDF}$ : 1206.1/7

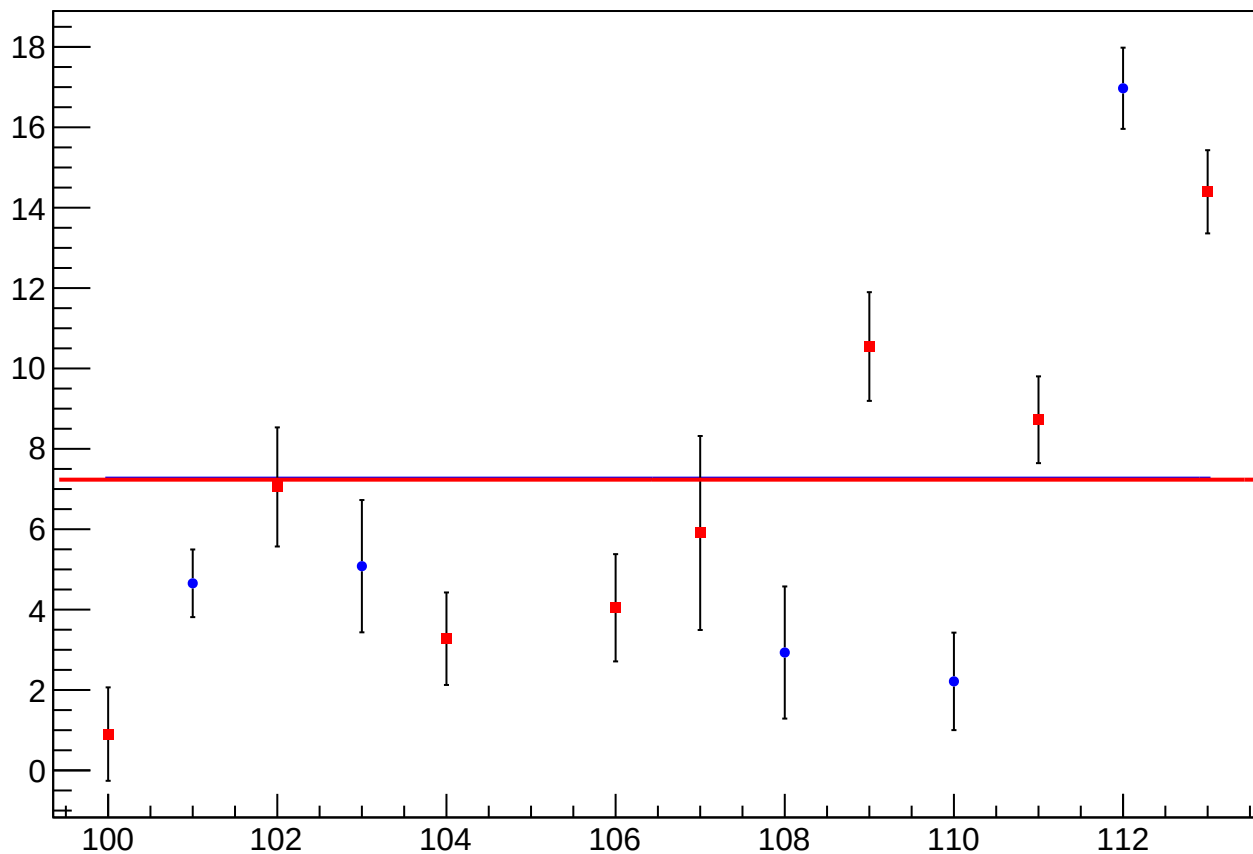
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-30.511 \pm 0.262$   $\chi^2/\text{NDF}$ : 1481.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 7.259 $\pm$ 0.512  $\chi^2$ /NDF: 128.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7.233 $\pm$ 0.446  $\chi^2$ /NDF: 103.3/7

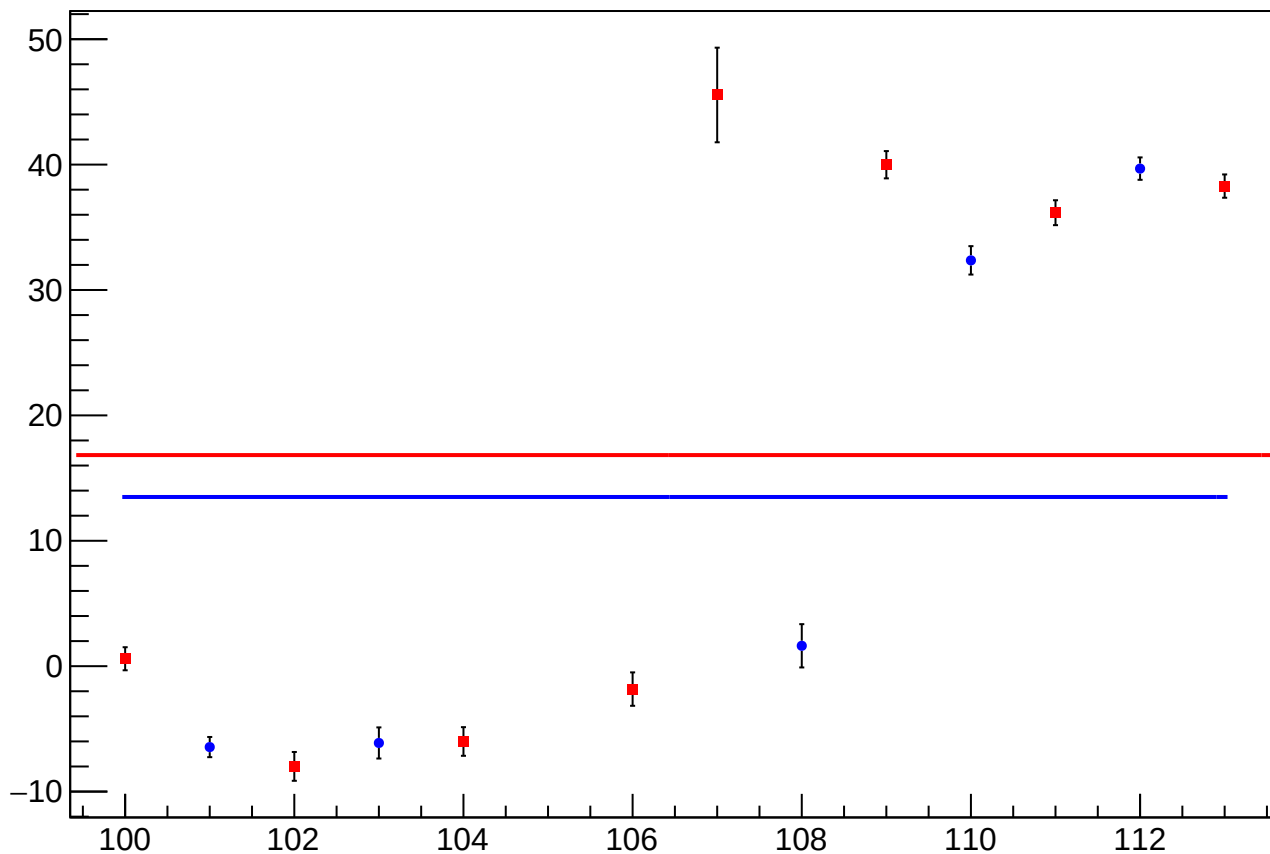
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.244 $\pm$ 0.336  $\chi^2$ /NDF: 231.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 13.493 $\pm$ 0.468  $\chi^2$ /NDF: 2047.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.834 $\pm$ 0.397  $\chi^2$ /NDF: 2797.1/7

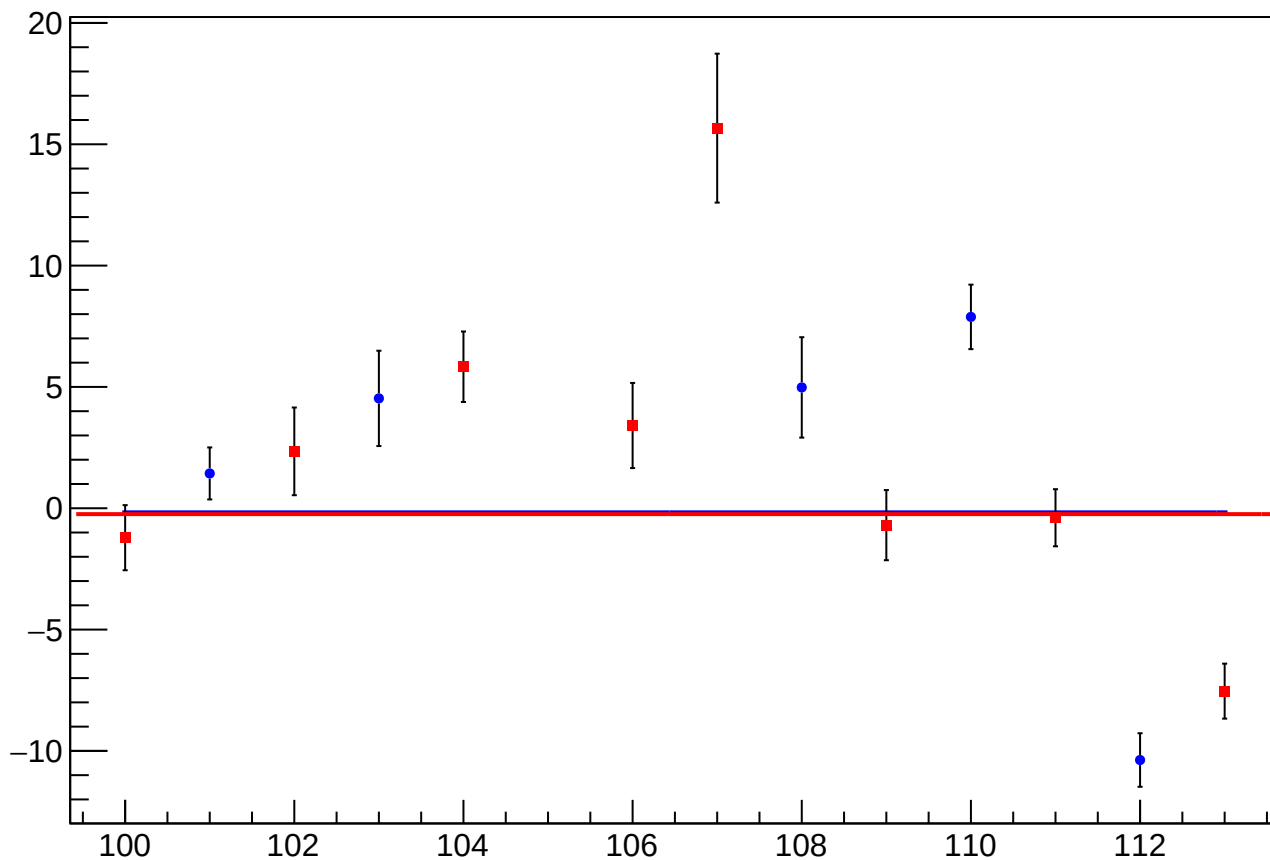
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 15.439 $\pm$ 0.303  $\chi^2$ /NDF: 4874.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.169 \pm 0.603$   $\chi^2/\text{NDF}$ : 136.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.242 \pm 0.517$   $\chi^2/\text{NDF}$ : 92.8/7

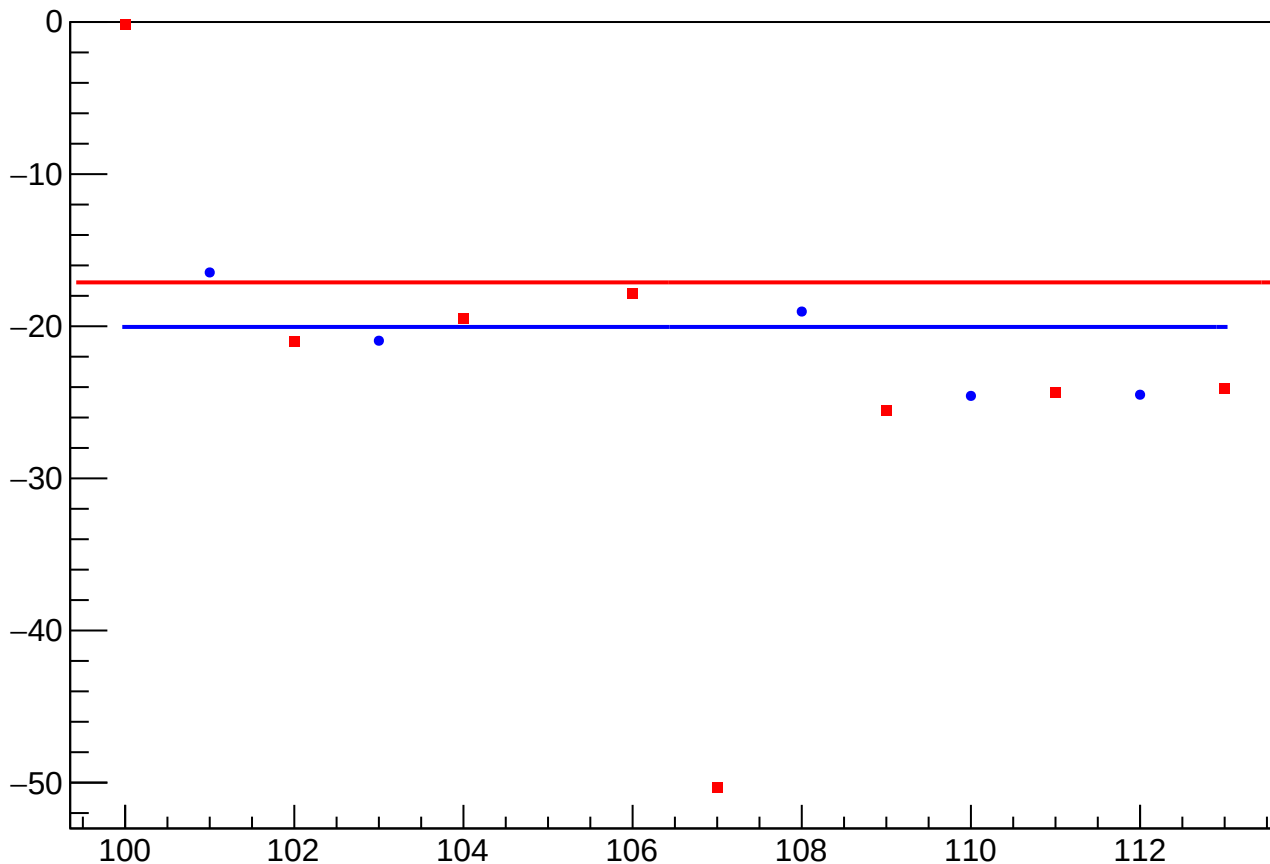
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.211 \pm 0.392$   $\chi^2/\text{NDF}$ : 229.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-20.045 \pm 0.027$   $\chi^2/\text{NDF}: 12473.5/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-17.116 \pm 0.022$   $\chi^2/\text{NDF}: 216609.0/7$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

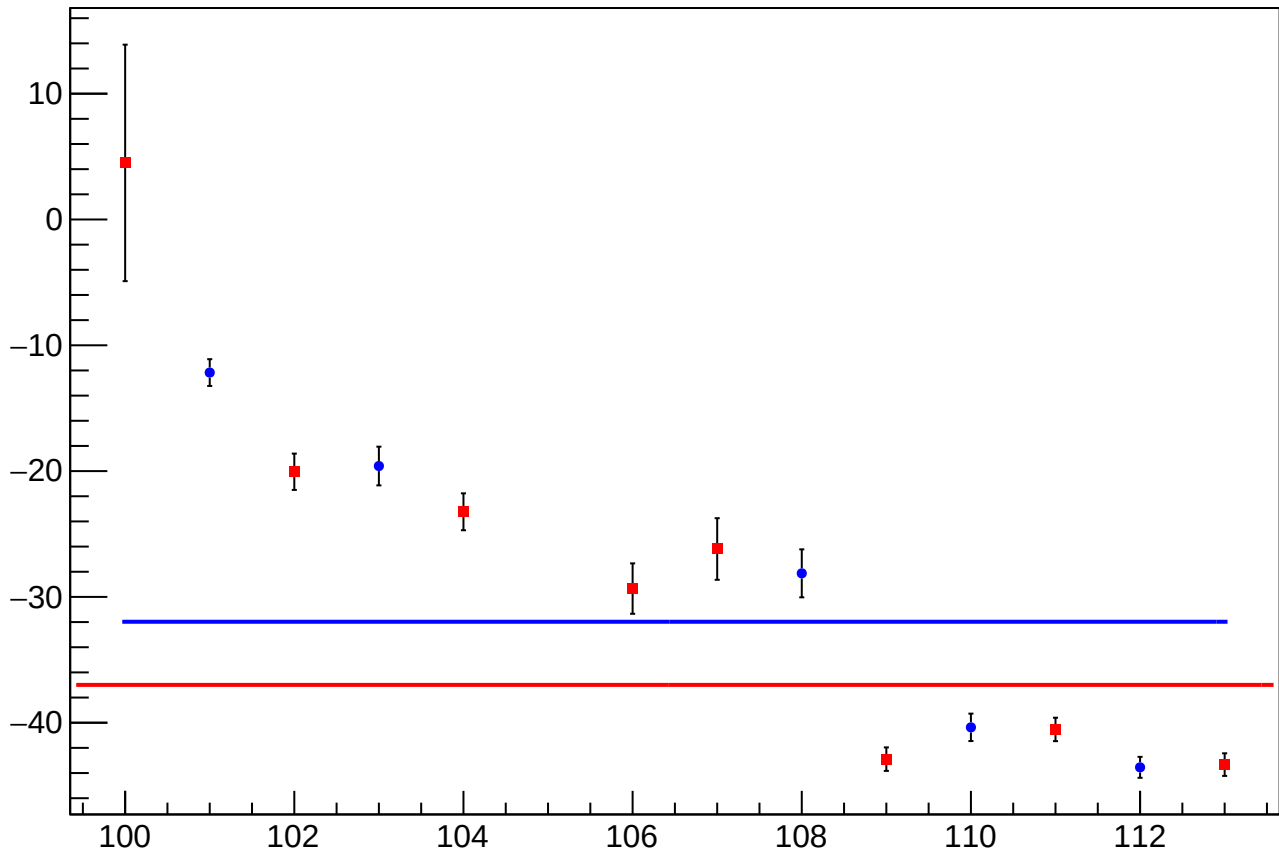
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-18.279 \pm 0.017$   $\chi^2/\text{NDF}: 235922.3/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$



# reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-31.974 \pm 0.508$   $\chi^2/\text{NDF}: 668.2/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-36.993 \pm 0.451$   $\chi^2/\text{NDF}: 383.3/7$

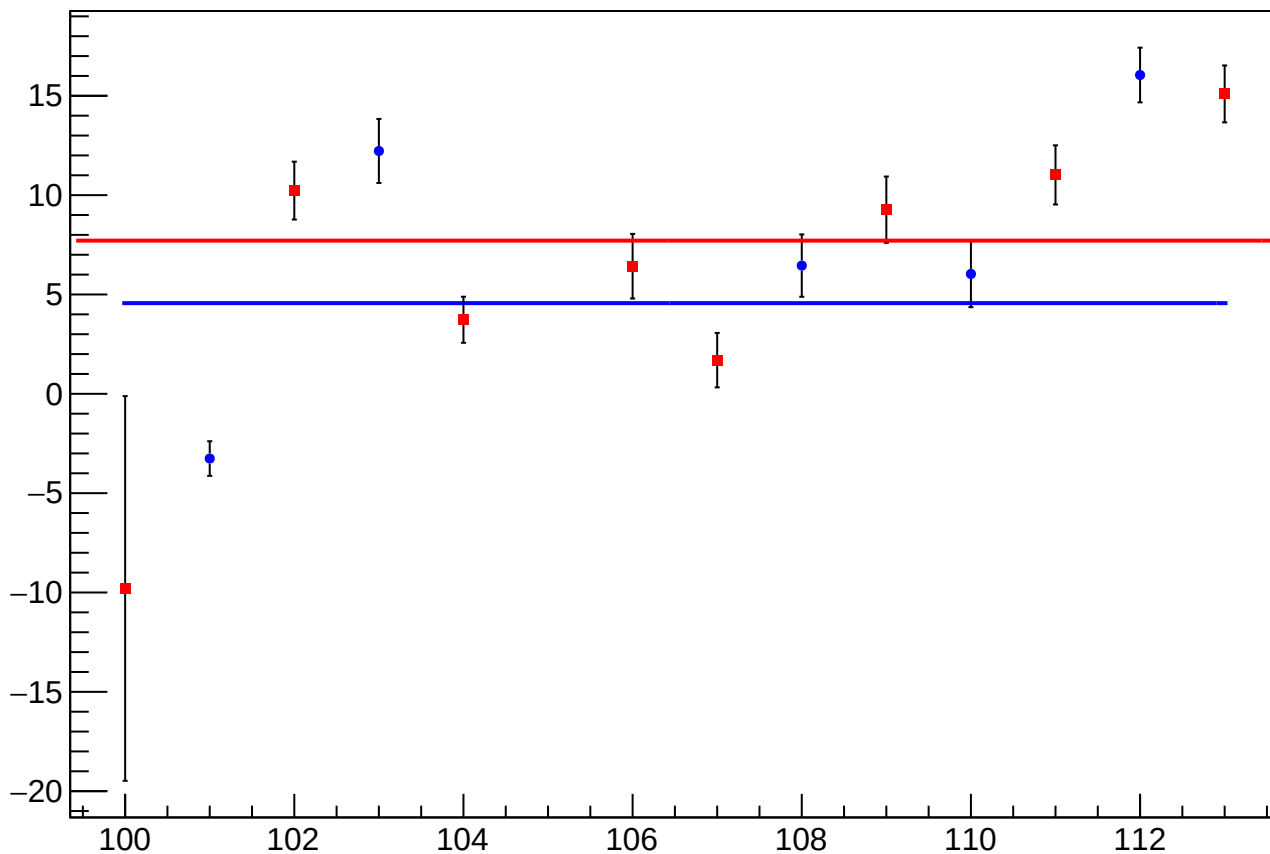
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-34.781 \pm 0.338$   $\chi^2/\text{NDF}: 1106.0/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 4.563+/-0.578  $\chi^2/\text{NDF}$ : 175.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.711+/-0.540  $\chi^2/\text{NDF}$ : 70.3/7

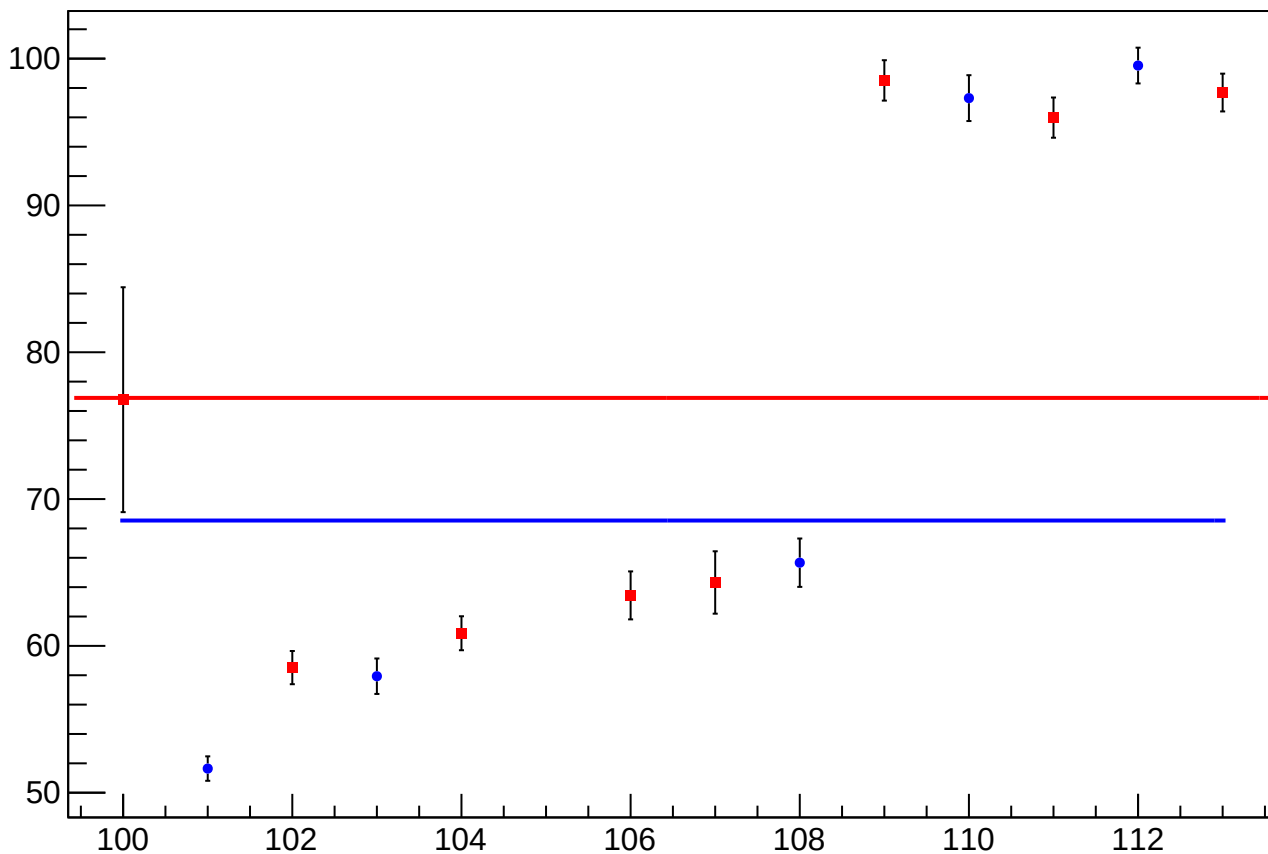
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.245+/-0.394  $\chi^2/\text{NDF}$ : 261.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 68.538 $\pm$ 0.528  $\chi^2$ /NDF: 1478.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 76.890 $\pm$ 0.513  $\chi^2$ /NDF: 1261.1/7

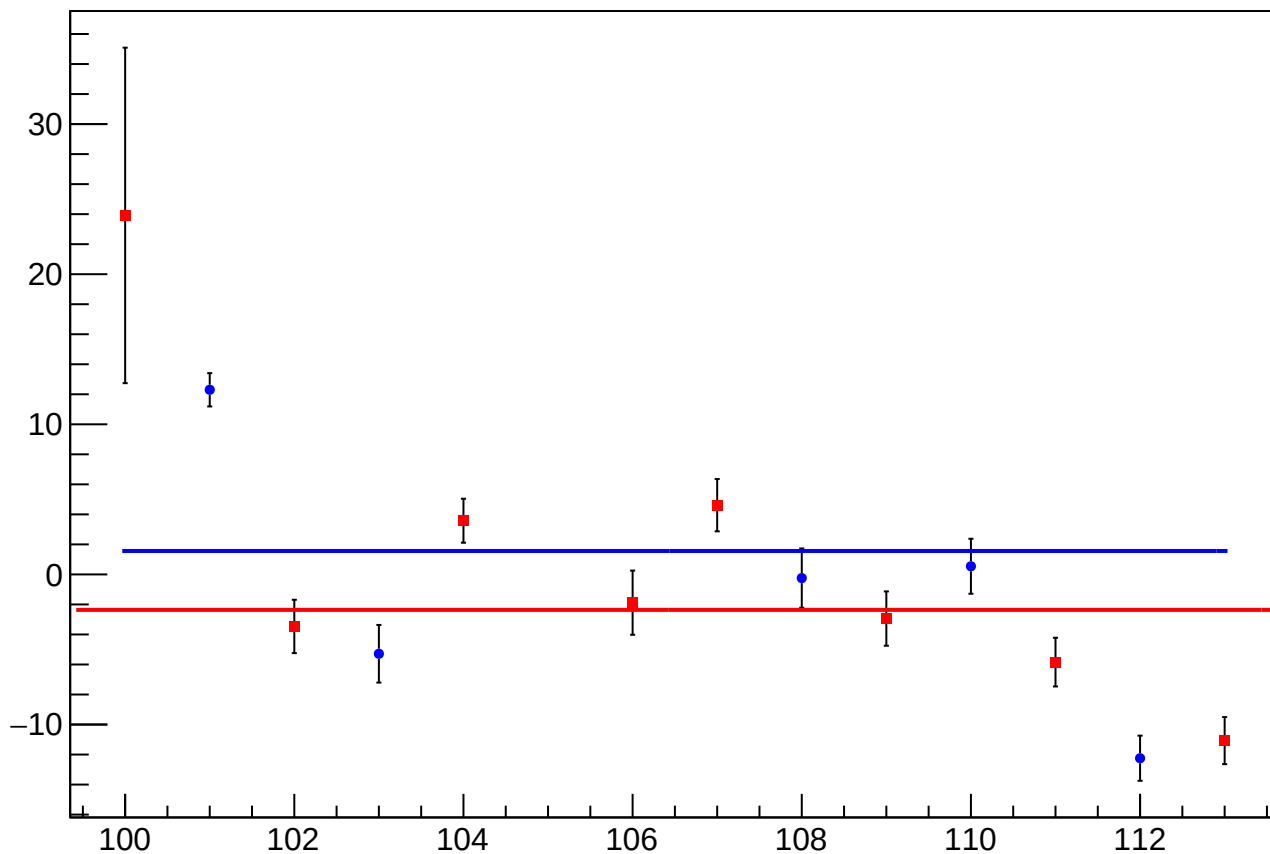
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 72.842 $\pm$ 0.368  $\chi^2$ /NDF: 2868.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 1.561 $\pm$ 0.693  $\chi^2$ /NDF: 191.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.362 $\pm$ 0.641  $\chi^2$ /NDF: 74.0/7

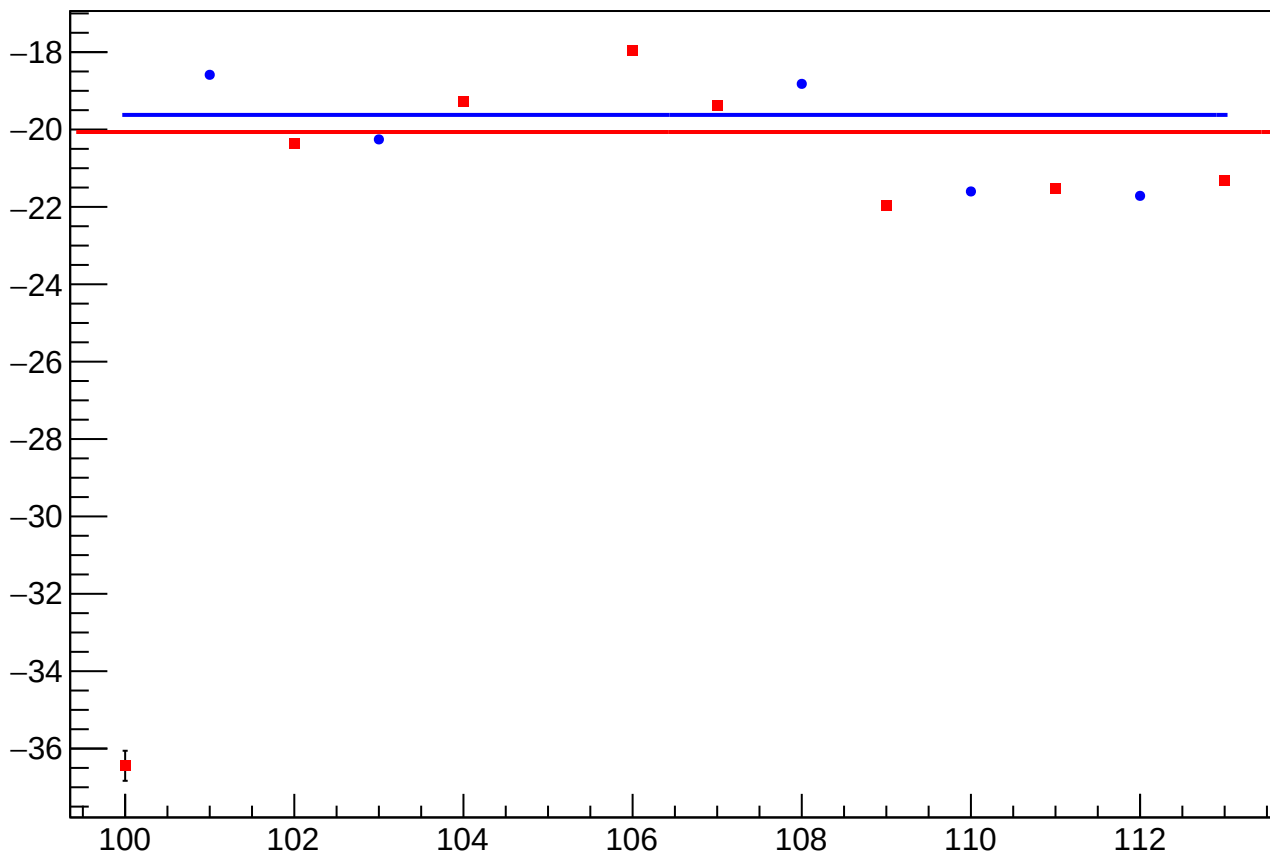
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.553 $\pm$ 0.471  $\chi^2$ /NDF: 283.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.622 \pm 0.029$   $\chi^2/\text{NDF}: 1449.3/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-20.064 \pm 0.027$   $\chi^2/\text{NDF}: 3569.9/7$

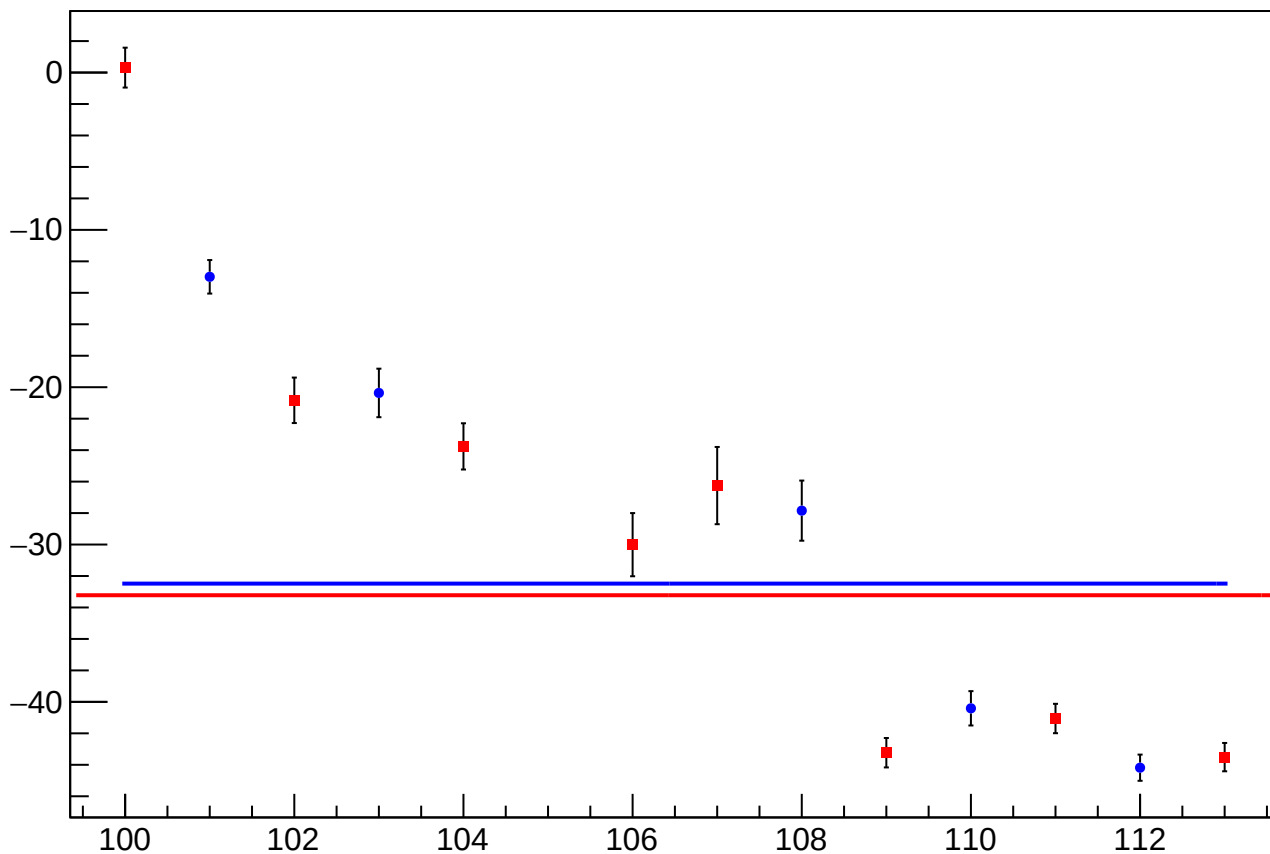
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-19.857 \pm 0.020$   $\chi^2/\text{NDF}: 5142.2/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_right\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-32.483 \pm 0.509$   $\chi^2/\text{NDF}$ : 652.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-33.222 \pm 0.426$   $\chi^2/\text{NDF}$ : 1141.0/7

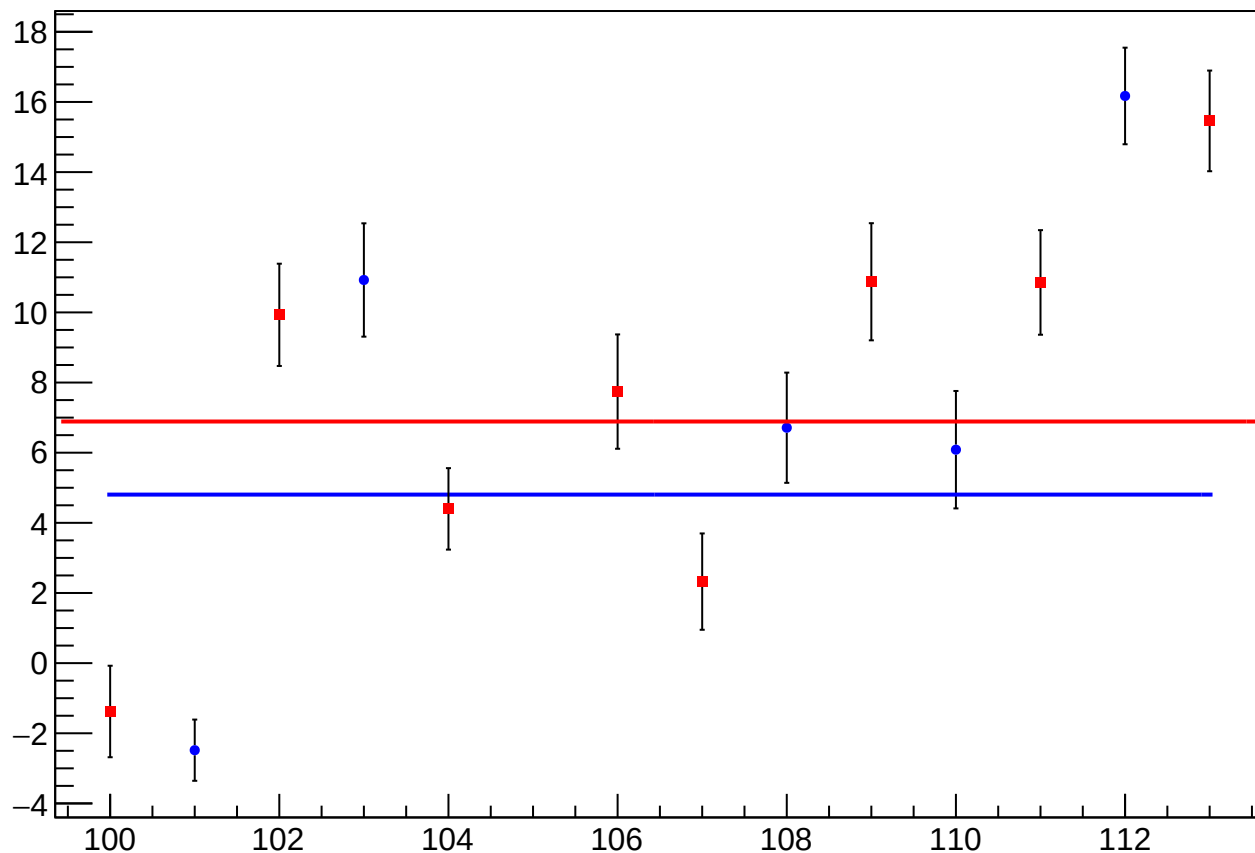
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-32.918 \pm 0.327$   $\chi^2/\text{NDF}$ : 1795.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 4.805 $\pm$ 0.579  $\chi^2$ /NDF: 154.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6.889 $\pm$ 0.500  $\chi^2$ /NDF: 108.9/7

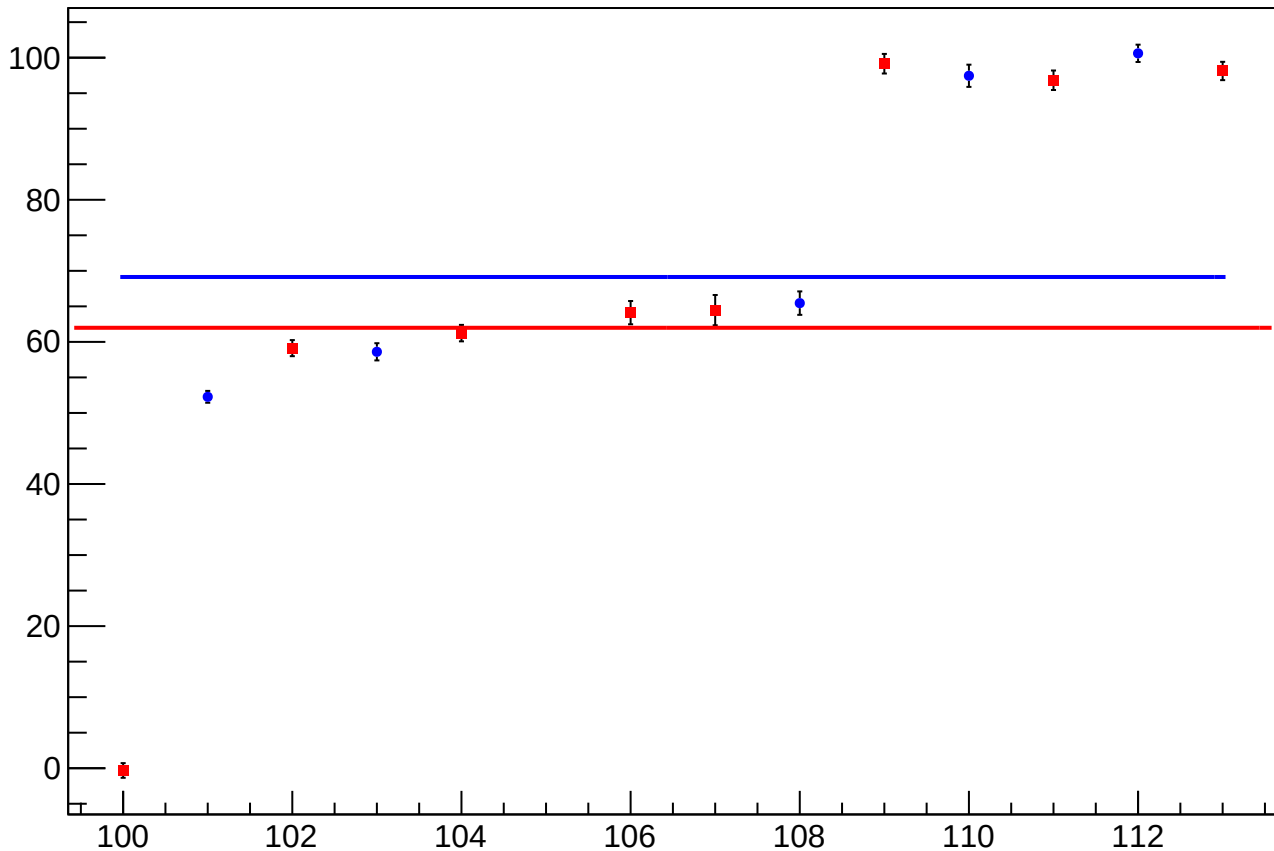
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.999 $\pm$ 0.378  $\chi^2$ /NDF: 270.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 69.135 $\pm$ 0.529  $\chi^2$ /NDF: 1484.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 61.987 $\pm$ 0.461  $\chi^2$ /NDF: 5803.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

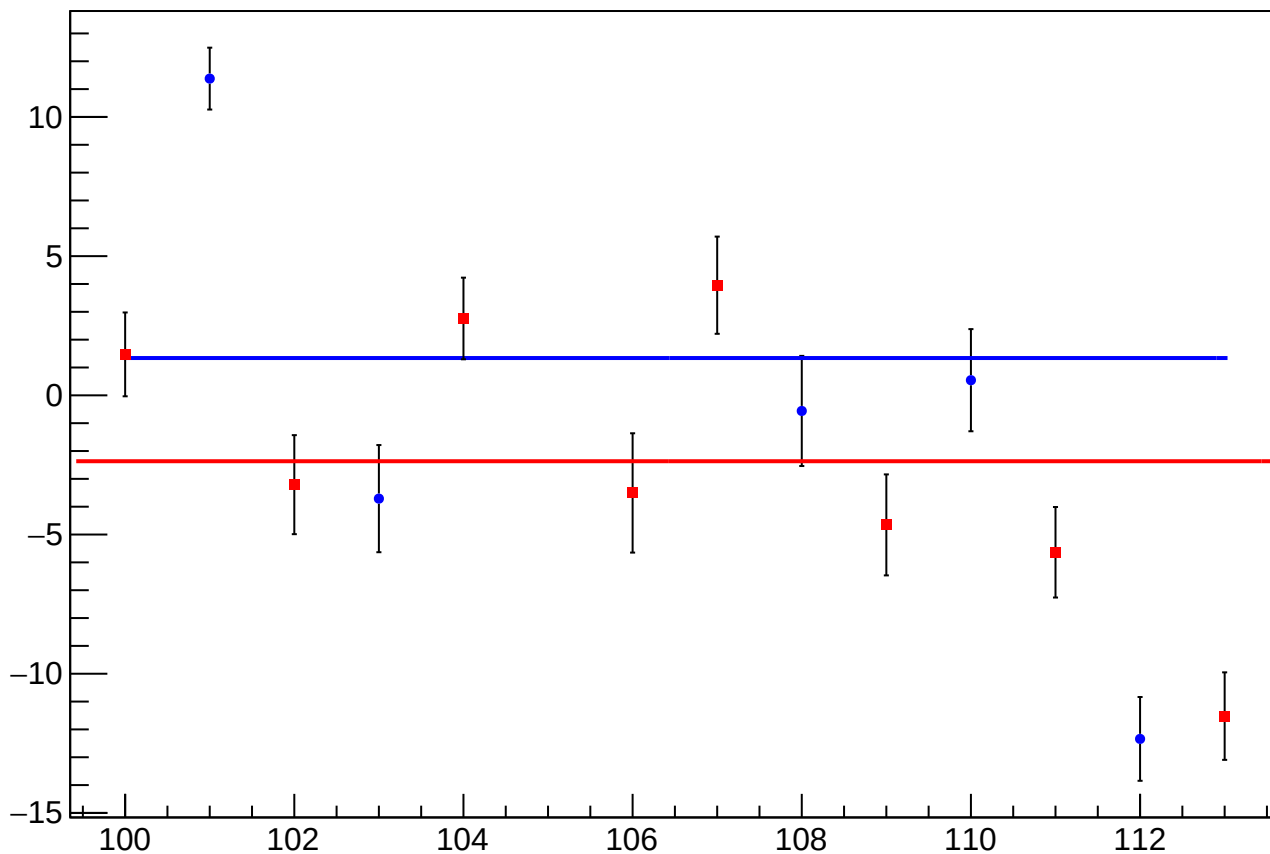
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 65.067 $\pm$ 0.347  $\chi^2$ /NDF: 7392.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 1.340 $\pm$ 0.694  $\chi^2$ /NDF: 172.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.367 $\pm$ 0.592  $\chi^2$ /NDF: 71.9/7

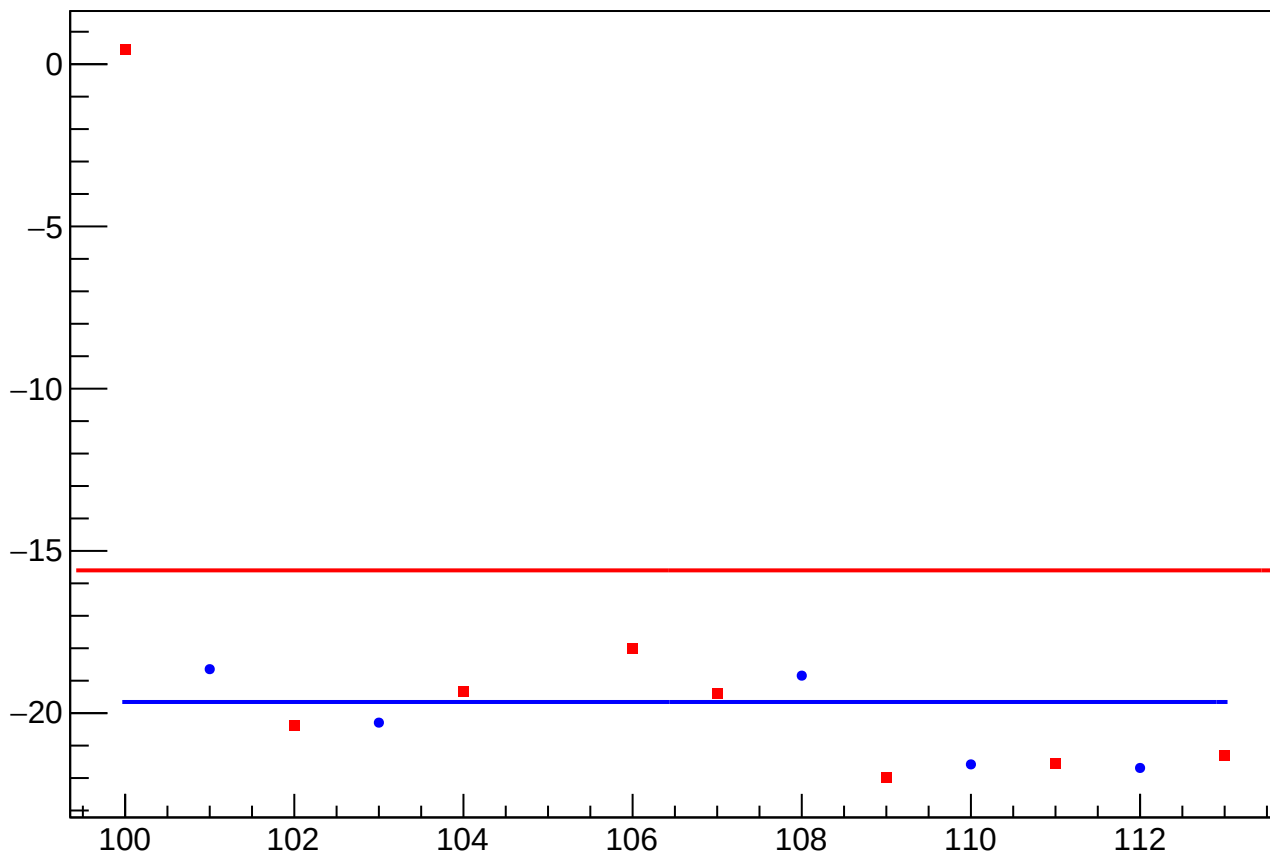
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.807 $\pm$ 0.450  $\chi^2$ /NDF: 260.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.656 \pm 0.029$   $\chi^2/\text{NDF}: 1390.2/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-15.600 \pm 0.024$   $\chi^2/\text{NDF}: 121789.9/7$

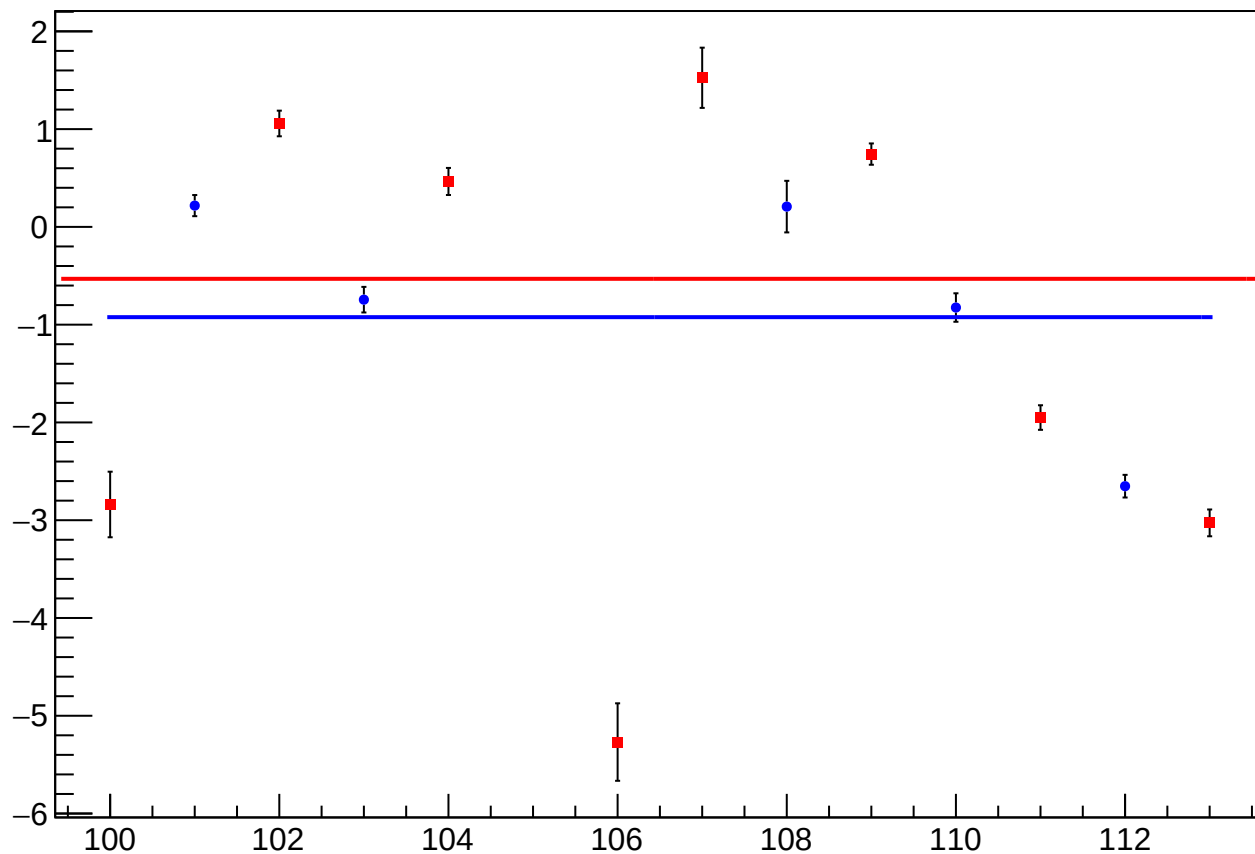
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-17.269 \pm 0.019$   $\chi^2/\text{NDF}: 134645.4/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-0.923 \pm 0.060$   $\chi^2/\text{NDF}$ : 354.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.531 \pm 0.054$   $\chi^2/\text{NDF}$ : 1029.7/7

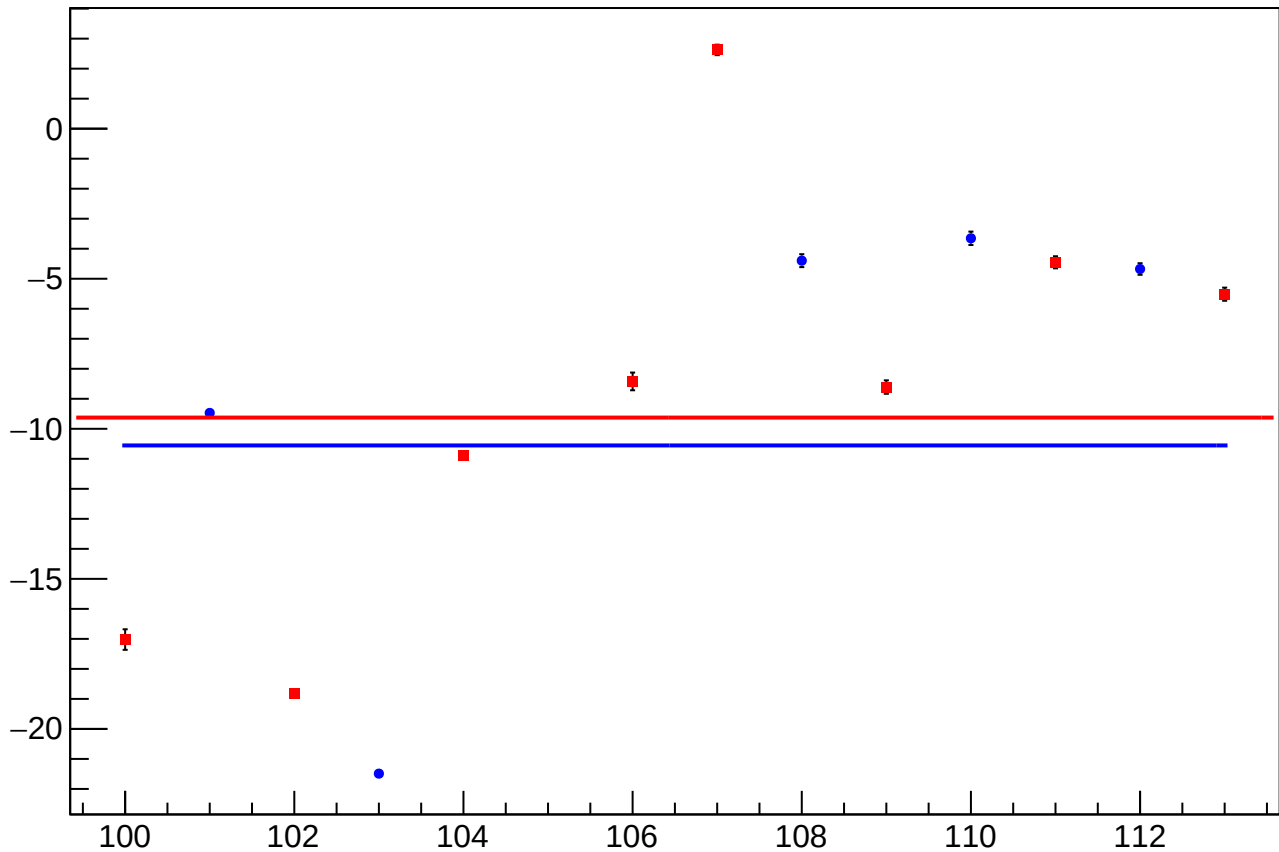
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.709 \pm 0.040$   $\chi^2/\text{NDF}$ : 1408.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -10.555+/-0.064  $\chi^2/\text{NDF}$ : 9070.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9.626+/-0.064  $\chi^2/\text{NDF}$ : 11103.4/7

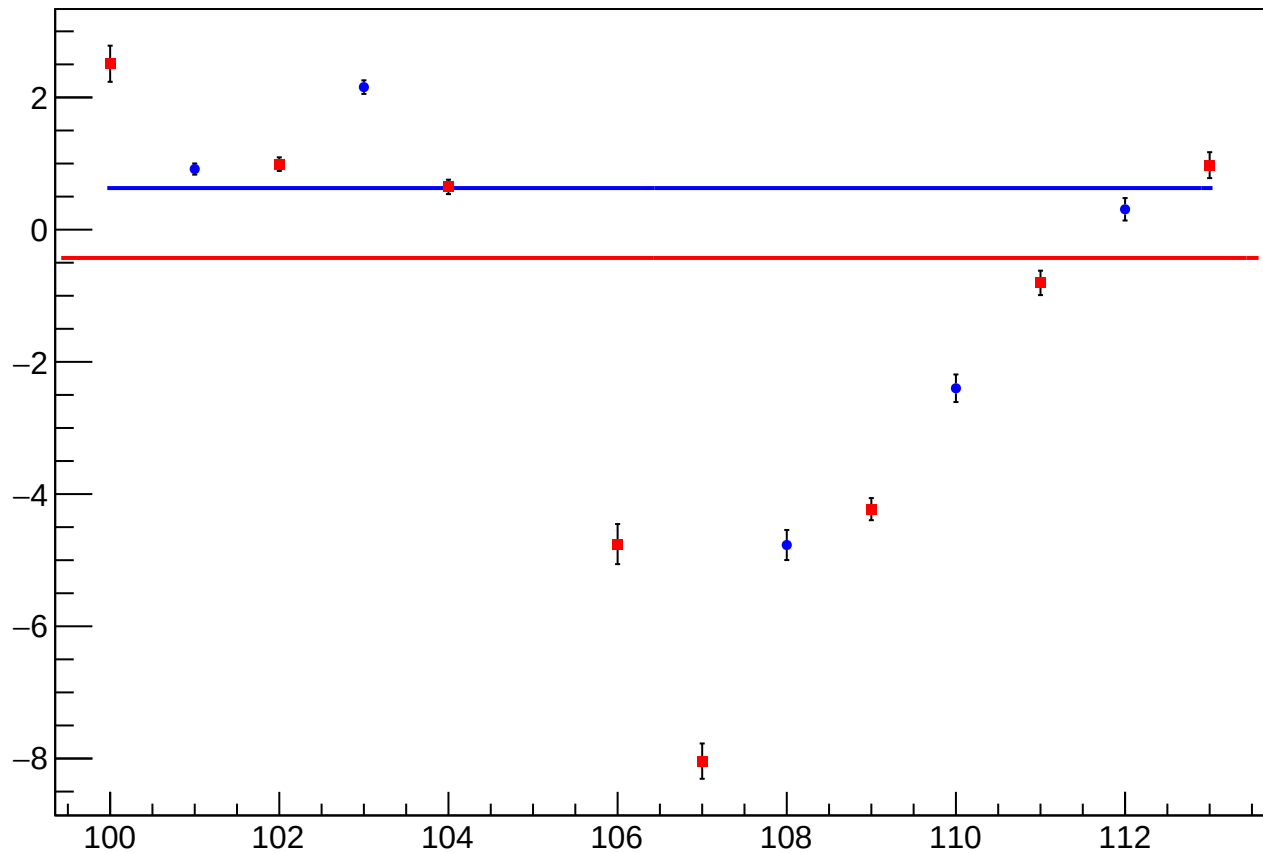
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -10.093+/-0.045  $\chi^2/\text{NDF}$ : 20279.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.629+/-0.057  $\chi^2/\text{NDF}$ : 1009.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.428+/-0.057  $\chi^2/\text{NDF}$ : 1988.7/7

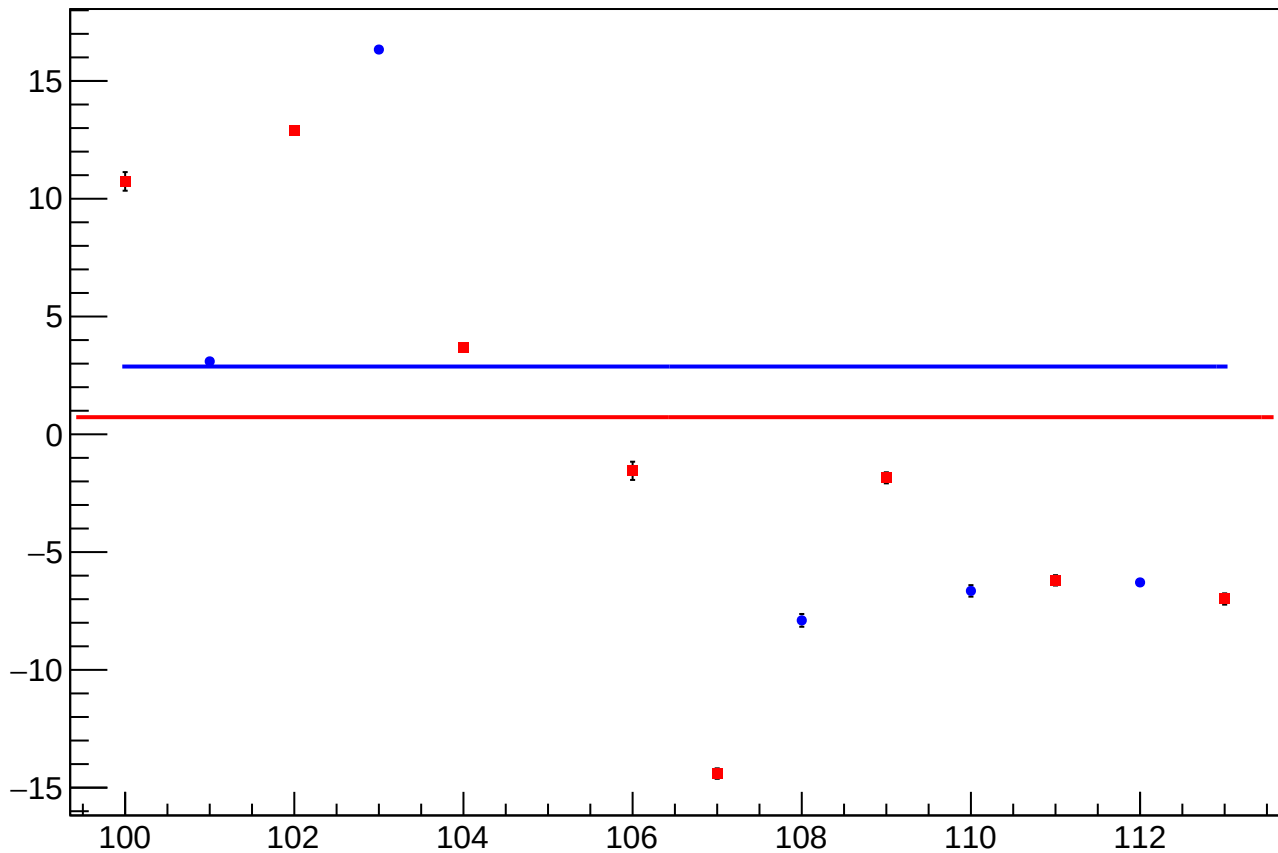
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.104+/-0.040  $\chi^2/\text{NDF}$ : 3170.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 2.877 $\pm$ 0.077  $\chi^2$ /NDF: 11676.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.727 $\pm$ 0.076  $\chi^2$ /NDF: 13323.3/7

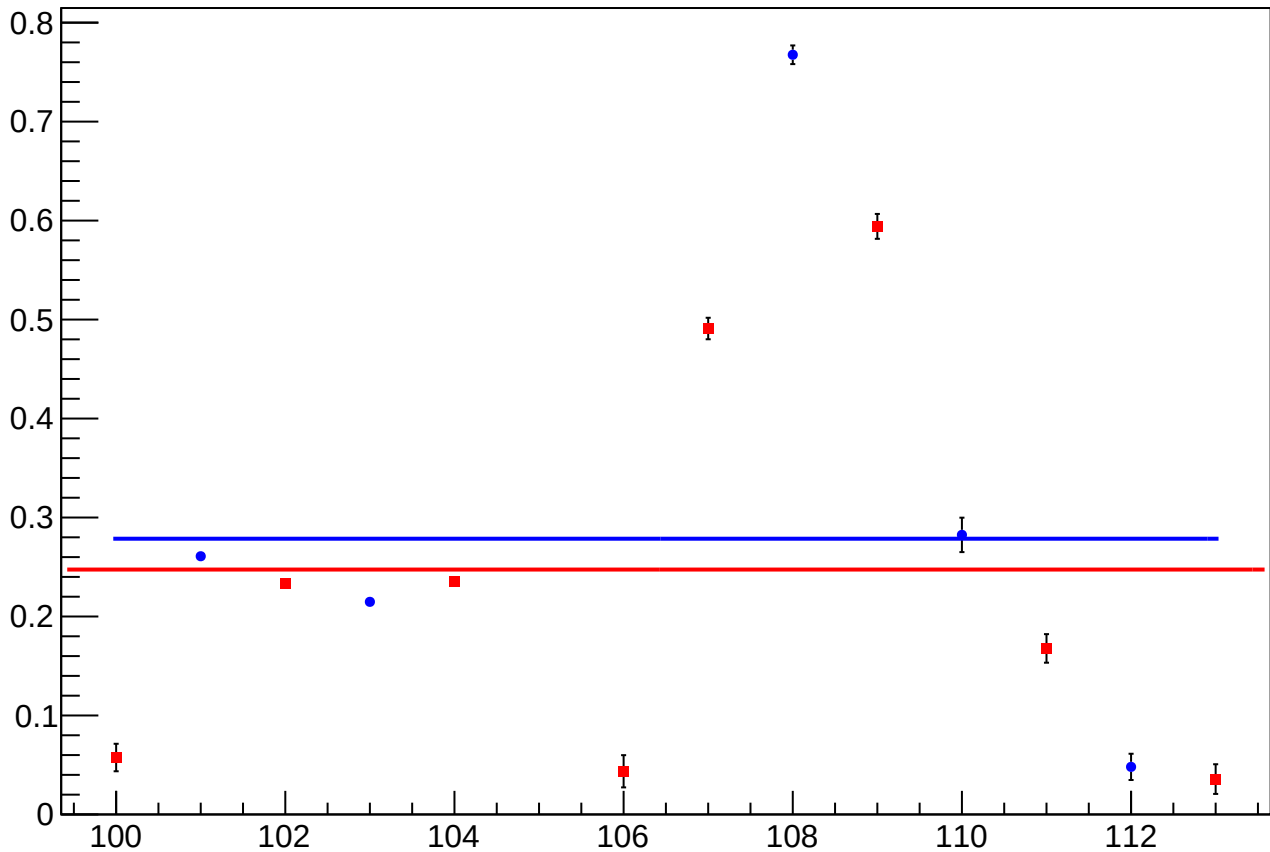
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.791 $\pm$ 0.054  $\chi^2$ /NDF: 25395.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.279 $\pm$ 0.003  $\chi^2$ /NDF: 3226.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.247 $\pm$ 0.003  $\chi^2$ /NDF: 1851.9/7

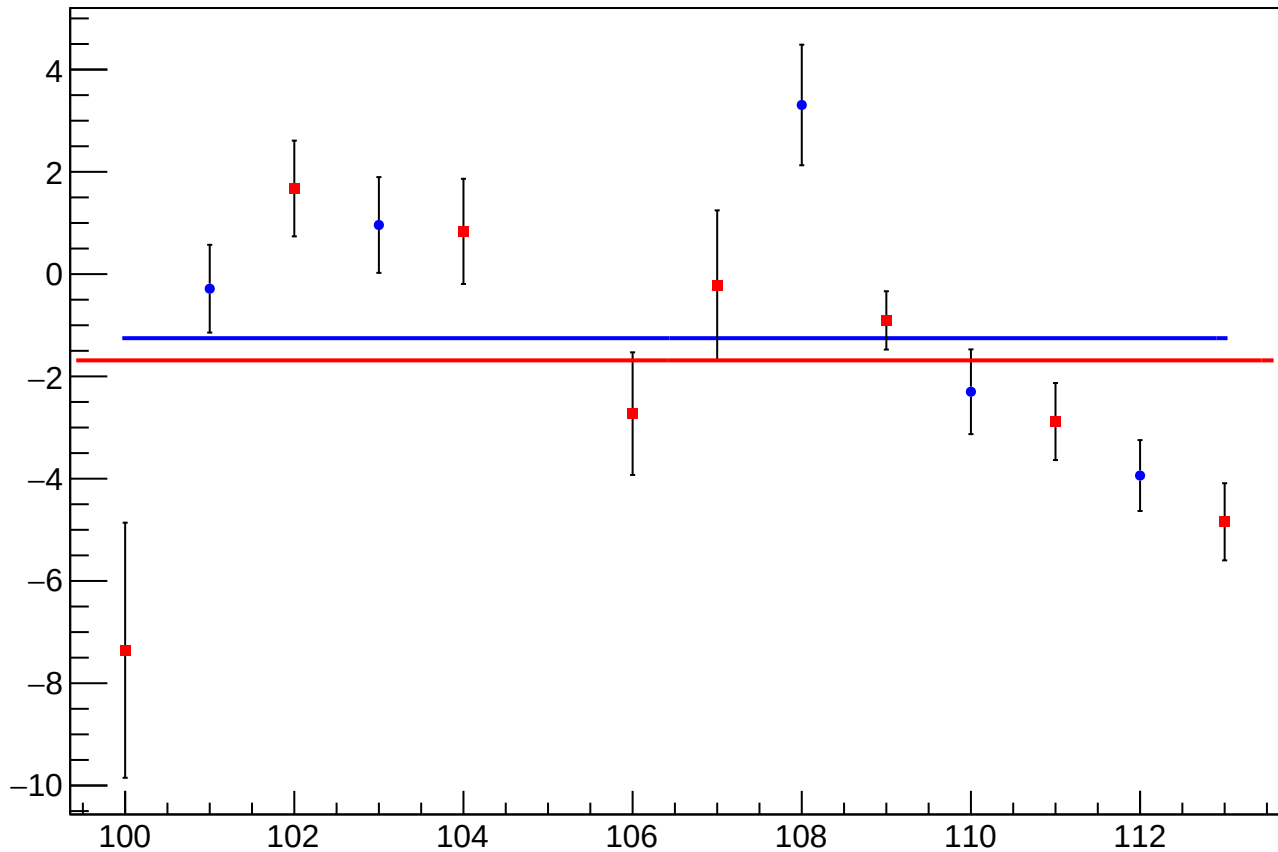
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.263 $\pm$ 0.002  $\chi^2$ /NDF: 5135.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -1.253 $\pm$ 0.385  $\chi^2$ /NDF: 38.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.687 $\pm$ 0.316  $\chi^2$ /NDF: 47.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

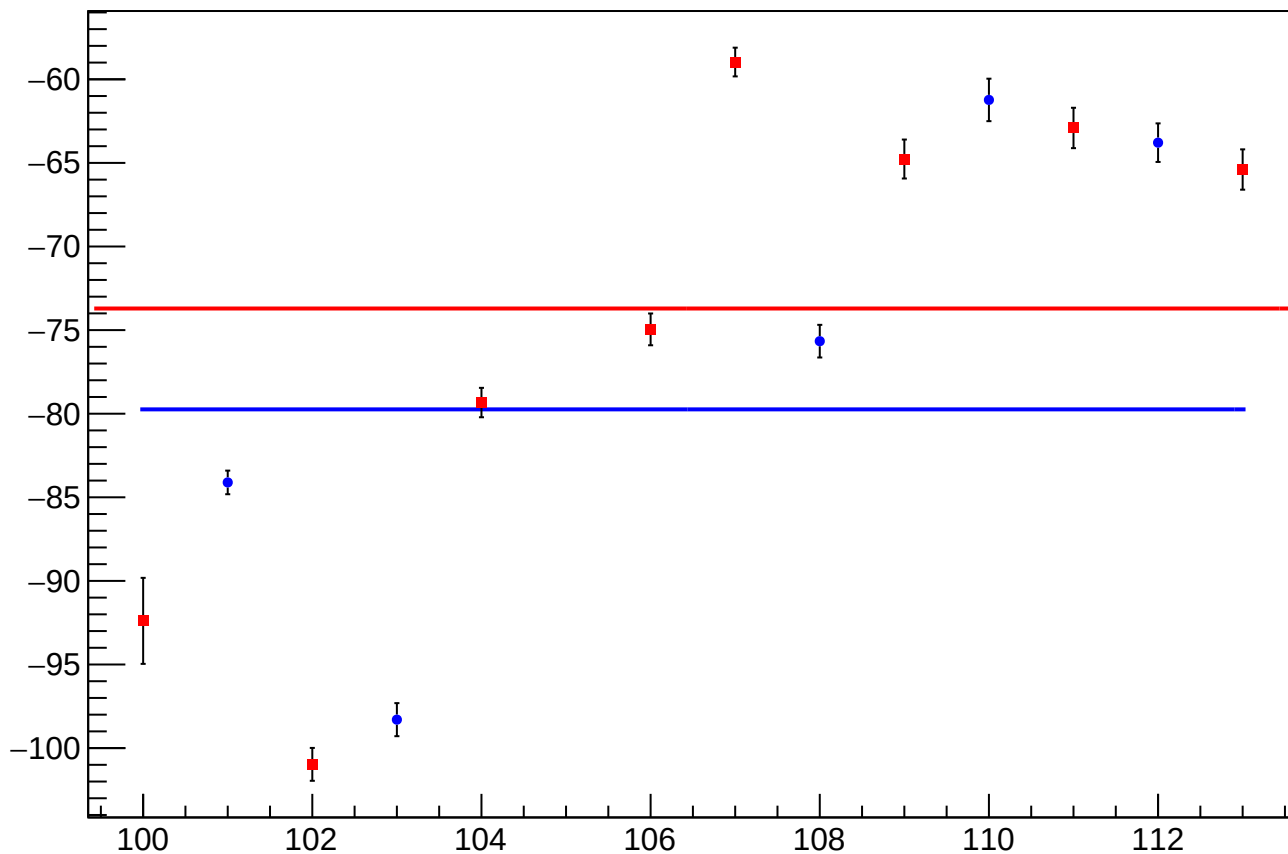
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.512 $\pm$ 0.244  $\chi^2$ /NDF: 86.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-79.741 \pm 0.428$   $\chi^2/\text{NDF}$ : 811.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-73.708 \pm 0.377$   $\chi^2/\text{NDF}$ : 1345.3/7

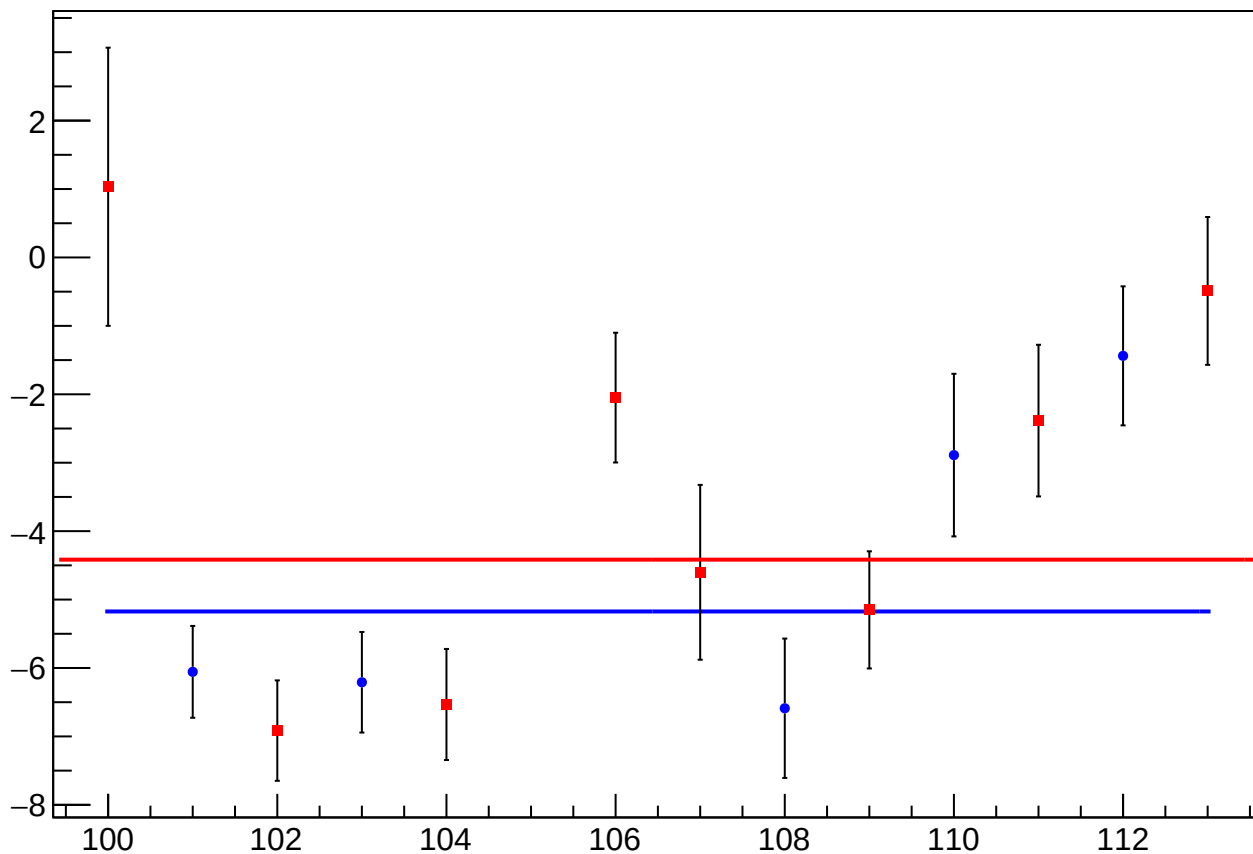
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-76.338 \pm 0.283$   $\chi^2/\text{NDF}$ : 2268.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -5.174+/-0.386  $\chi^2/\text{NDF}$ : 22.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.416+/-0.345  $\chi^2/\text{NDF}$ : 49.2/7

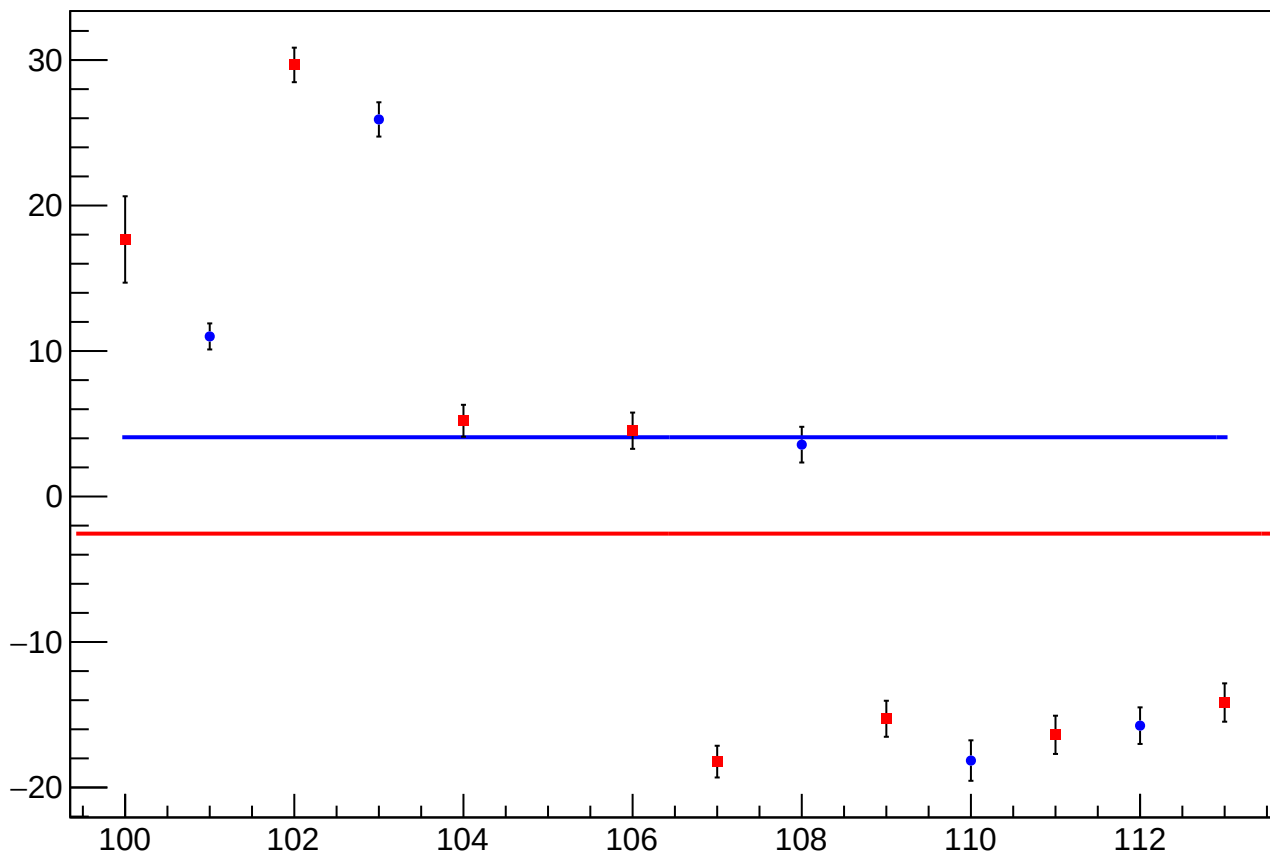
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.753+/-0.257  $\chi^2/\text{NDF}$ : 74.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 4.073 $\pm$ 0.514  $\chi^2$ /NDF: 907.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.551 $\pm$ 0.450  $\chi^2$ /NDF: 1366.2/7

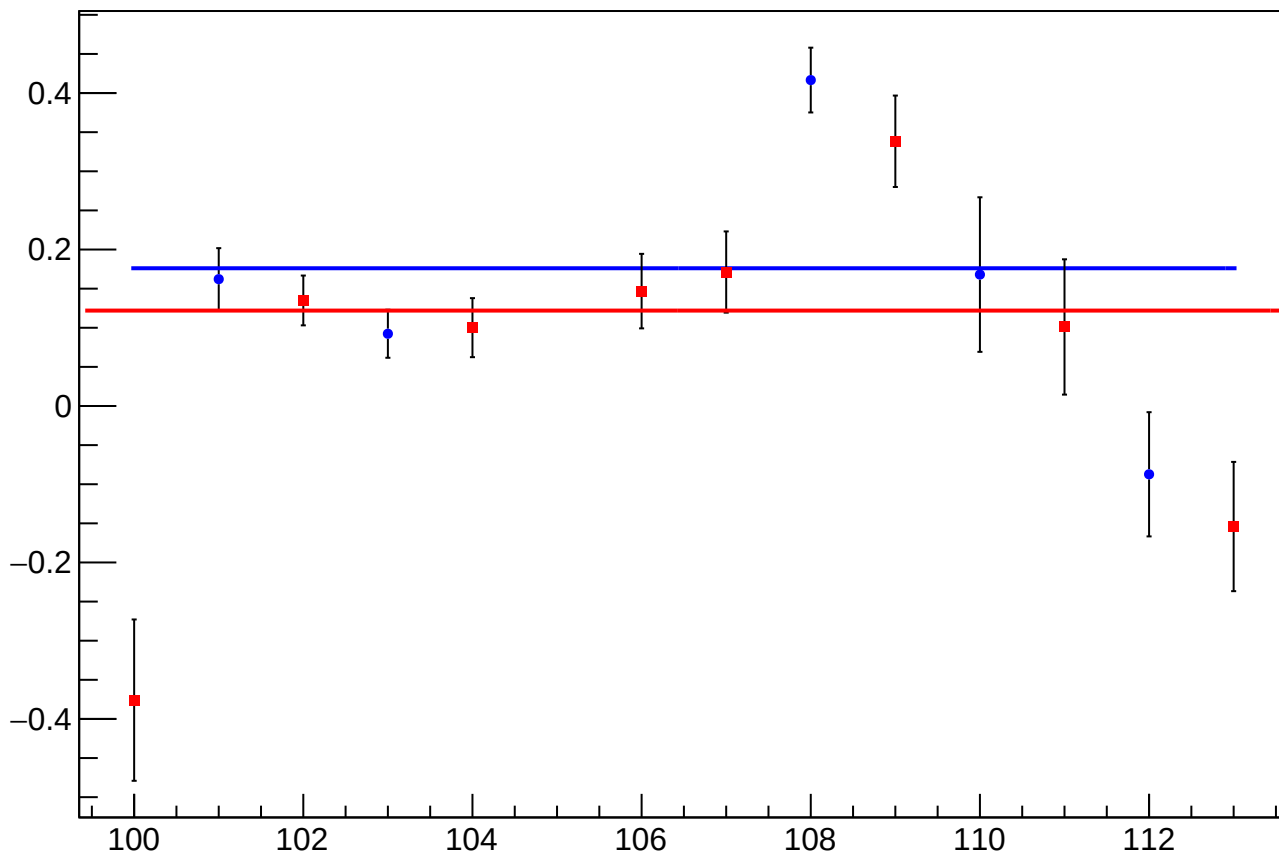
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.319 $\pm$ 0.339  $\chi^2$ /NDF: 2367.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.176 $\pm$ 0.020  $\chi^2$ /NDF: 52.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.122 $\pm$ 0.018  $\chi^2$ /NDF: 49.9/7

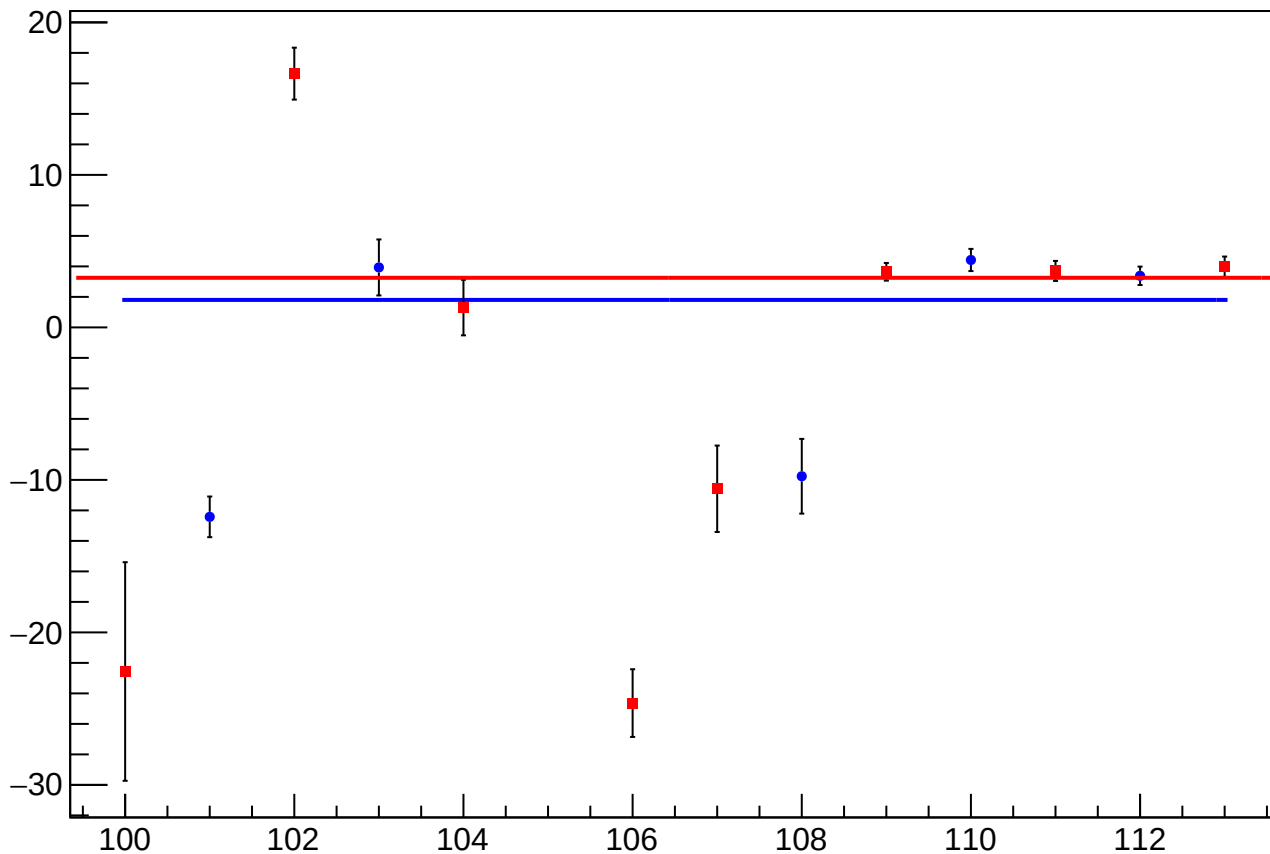
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.146 $\pm$ 0.013  $\chi^2$ /NDF: 106.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 1.803 $\pm$ 0.420  $\chi^2$ /NDF: 157.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.252 $\pm$ 0.342  $\chi^2$ /NDF: 259.8/7

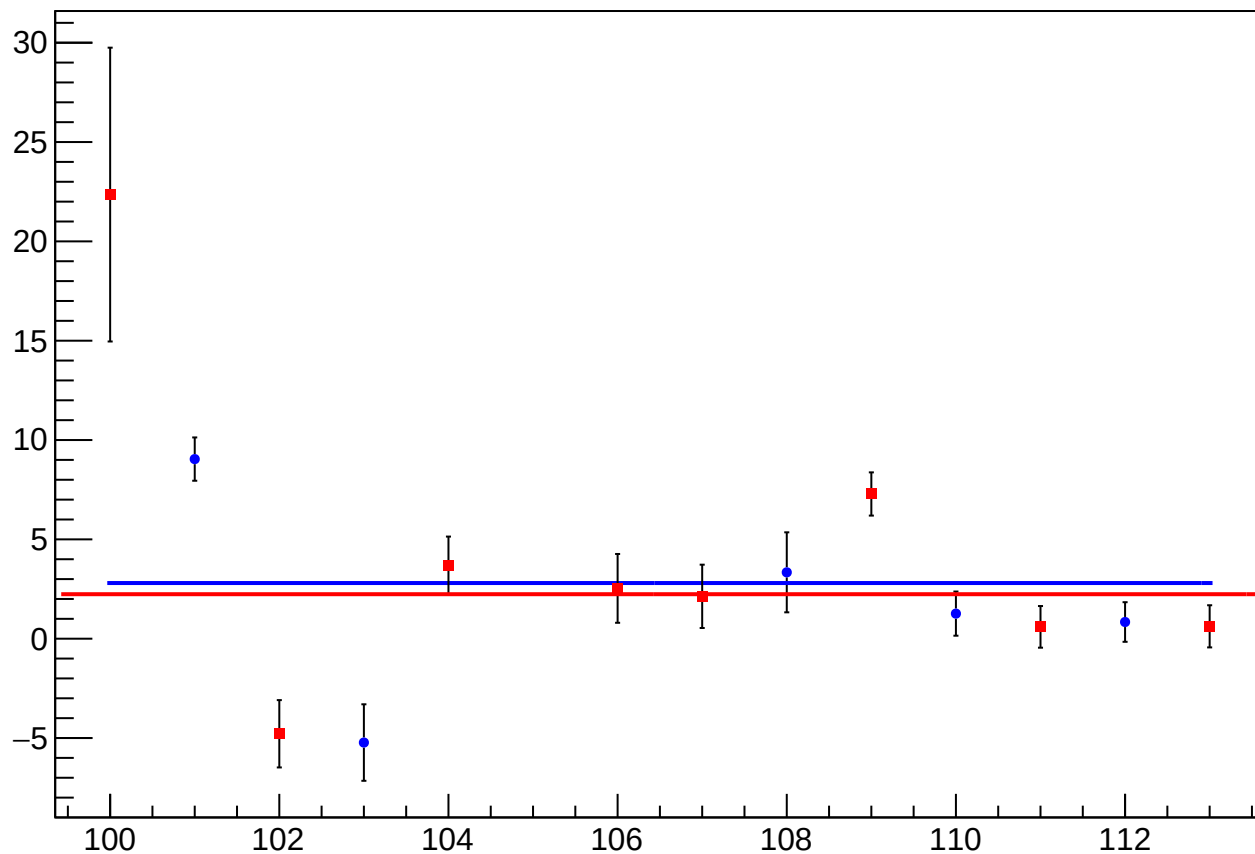
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.675 $\pm$ 0.265  $\chi^2$ /NDF: 424.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 2.802 $\pm$ 0.561  $\chi^2$ /NDF: 56.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.240 $\pm$ 0.487  $\chi^2$ /NDF: 51.9/7

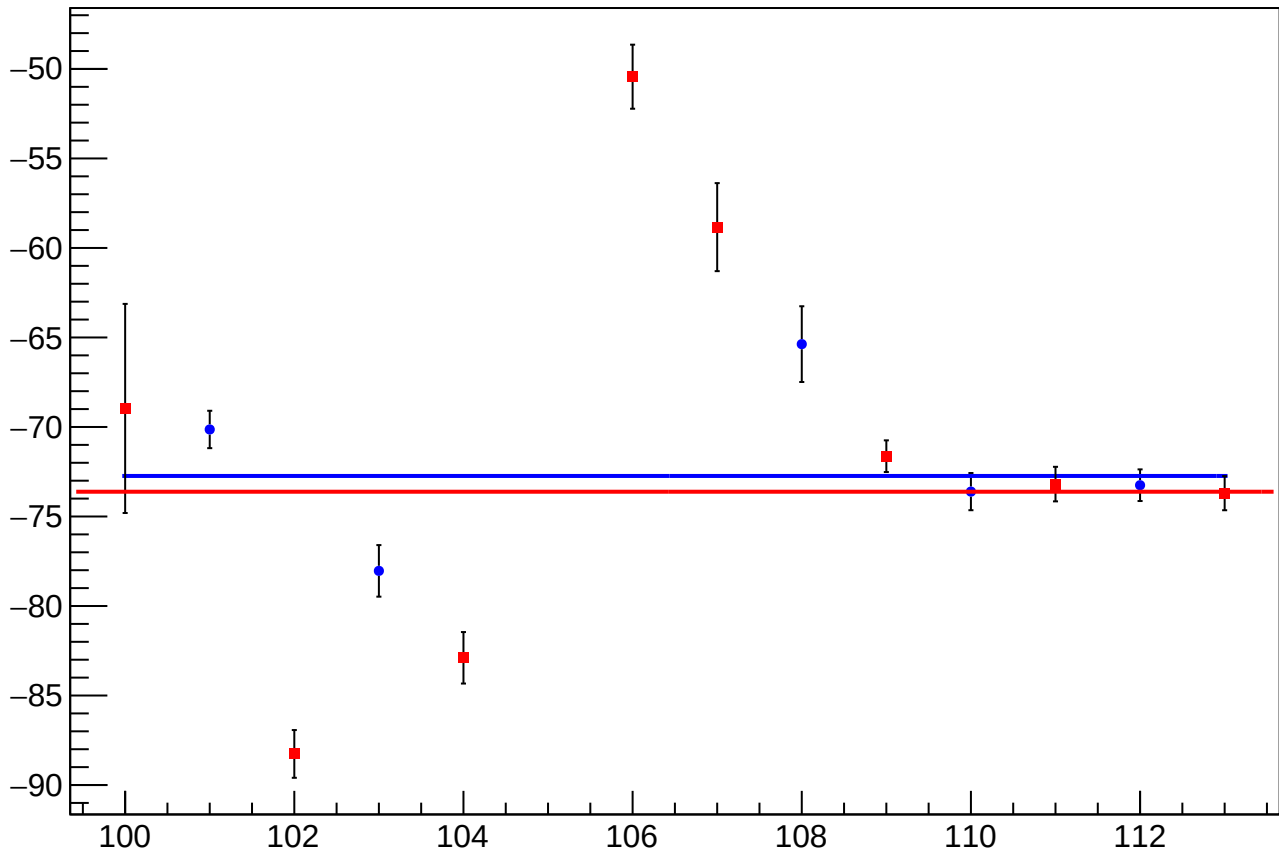
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.481 $\pm$ 0.368  $\chi^2$ /NDF: 108.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -72.735 $\pm$ 0.511  $\chi^2$ /NDF: 32.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -73.616 $\pm$ 0.447  $\chi^2$ /NDF: 372.1/7

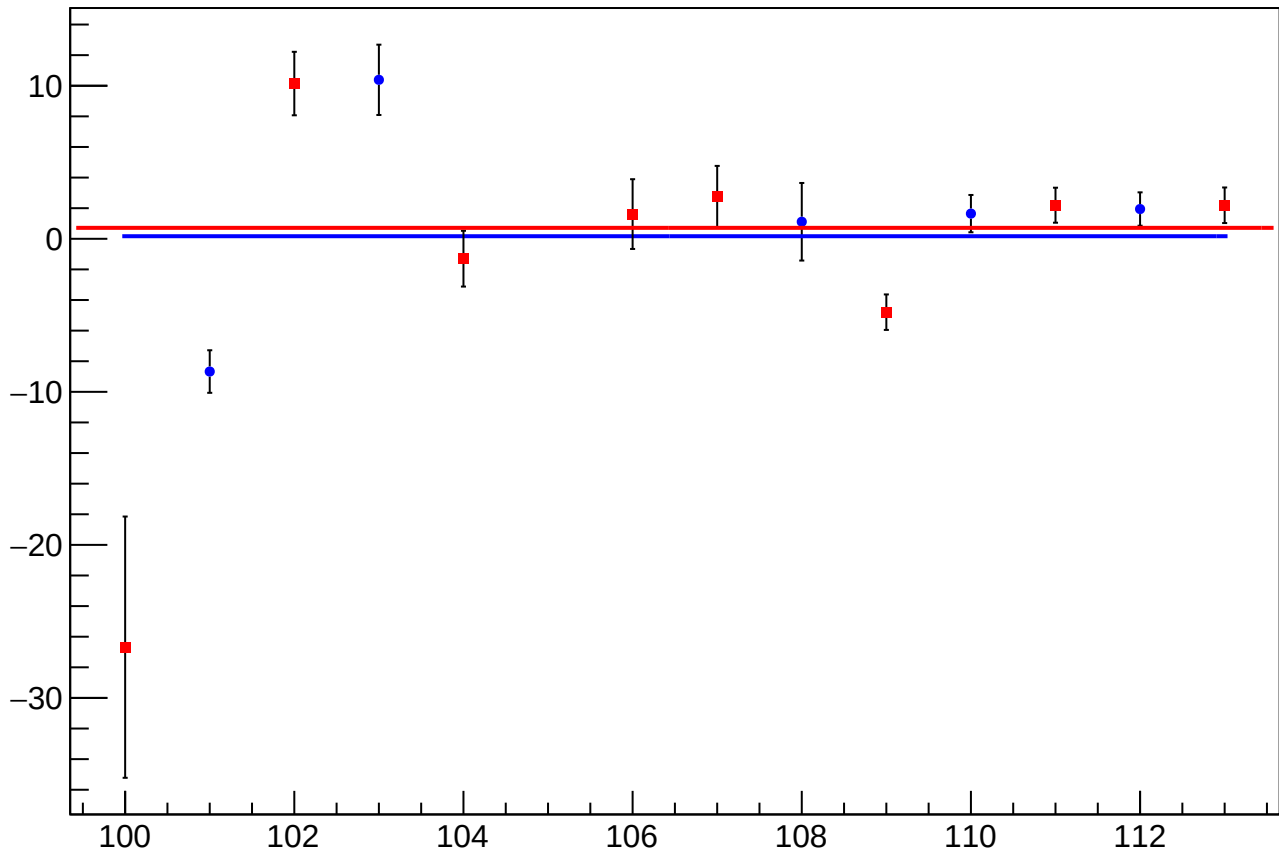
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -73.234 $\pm$ 0.336  $\chi^2$ /NDF: 406.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.169 $\pm$ 0.649  $\chi^2$ /NDF: 64.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.716 $\pm$ 0.556  $\chi^2$ /NDF: 59.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

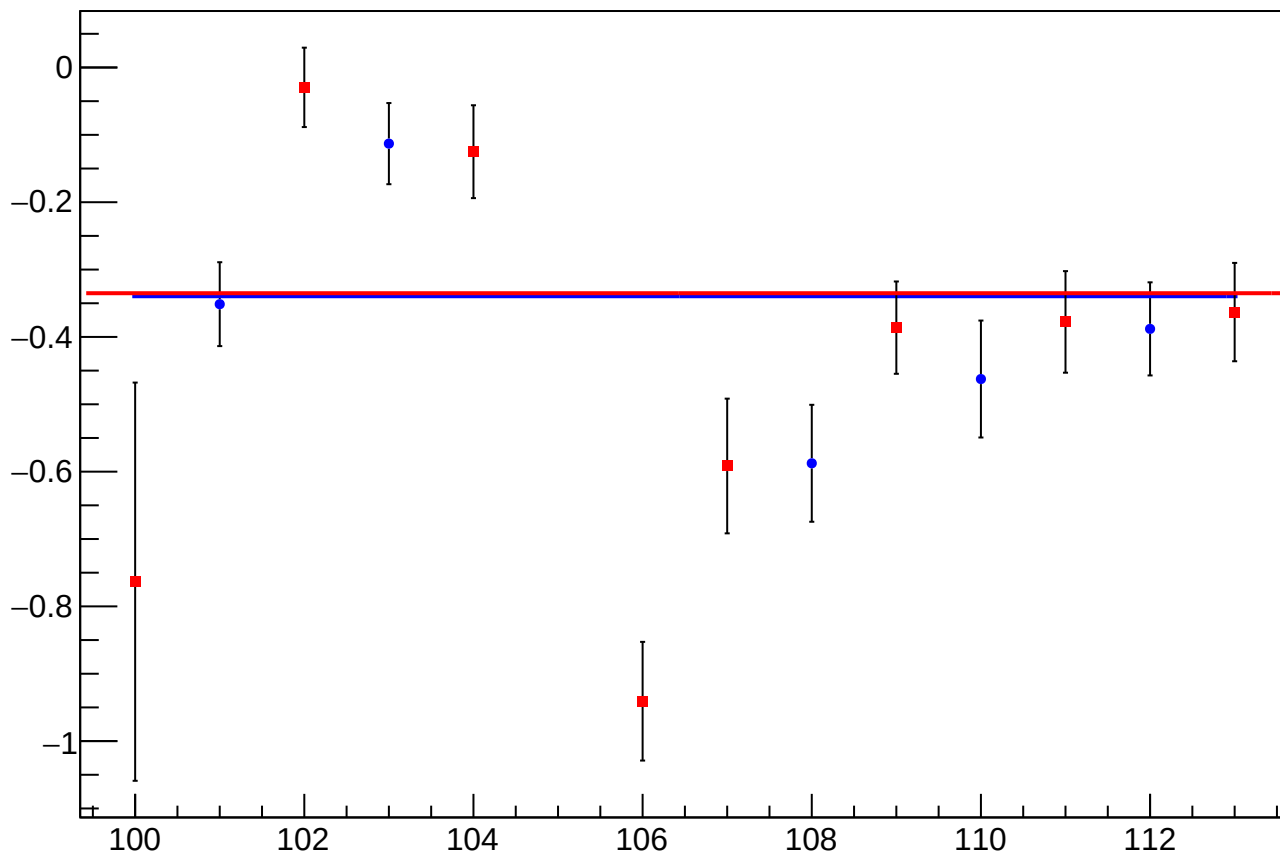
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.484 $\pm$ 0.422  $\chi^2$ /NDF: 124.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.340+/-0.031  $\chi^2/\text{NDF}$ : 24.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.335+/-0.028  $\chi^2/\text{NDF}$ : 93.1/7

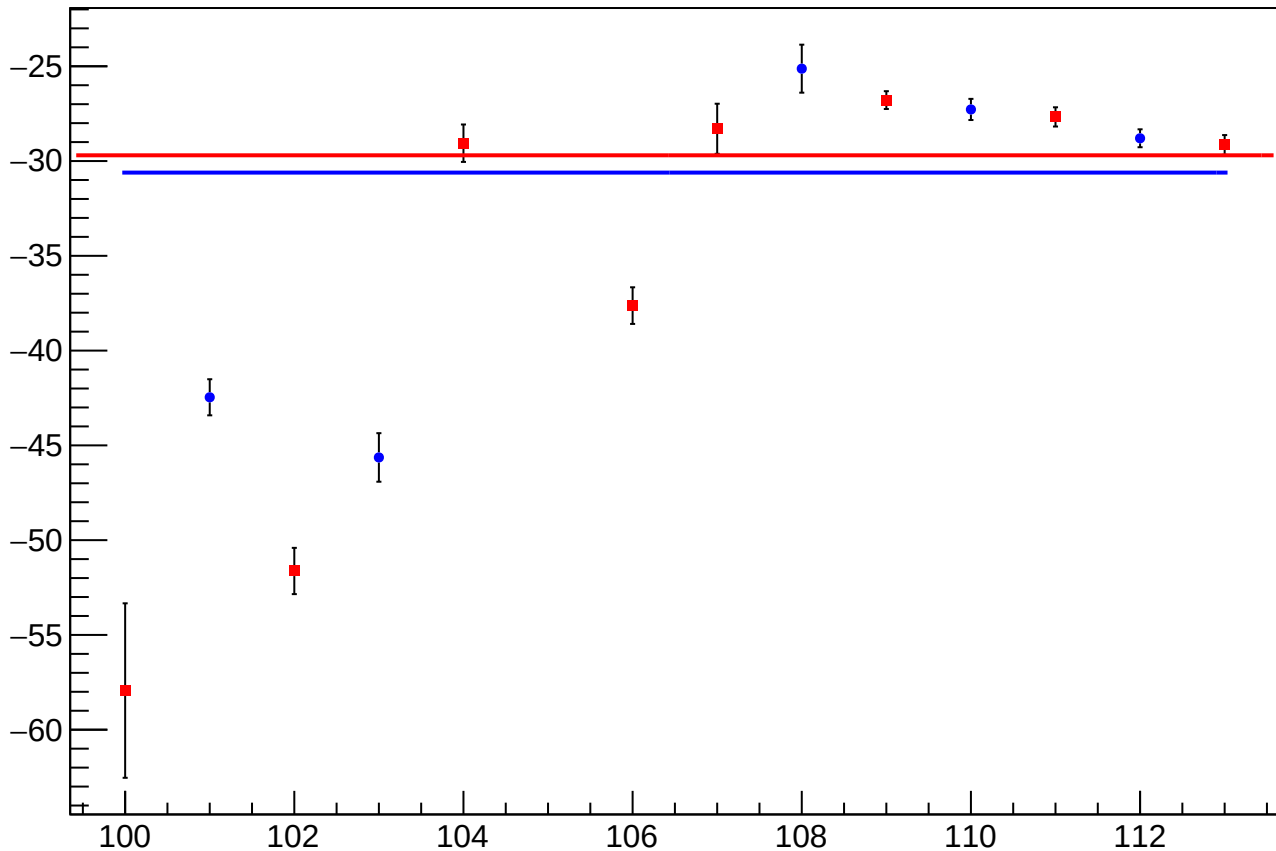
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.337+/-0.021  $\chi^2/\text{NDF}$ : 118.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-30.609 \pm 0.316$   $\chi^2/\text{NDF}$ : 361.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-29.697 \pm 0.254$   $\chi^2/\text{NDF}$ : 485.1/7

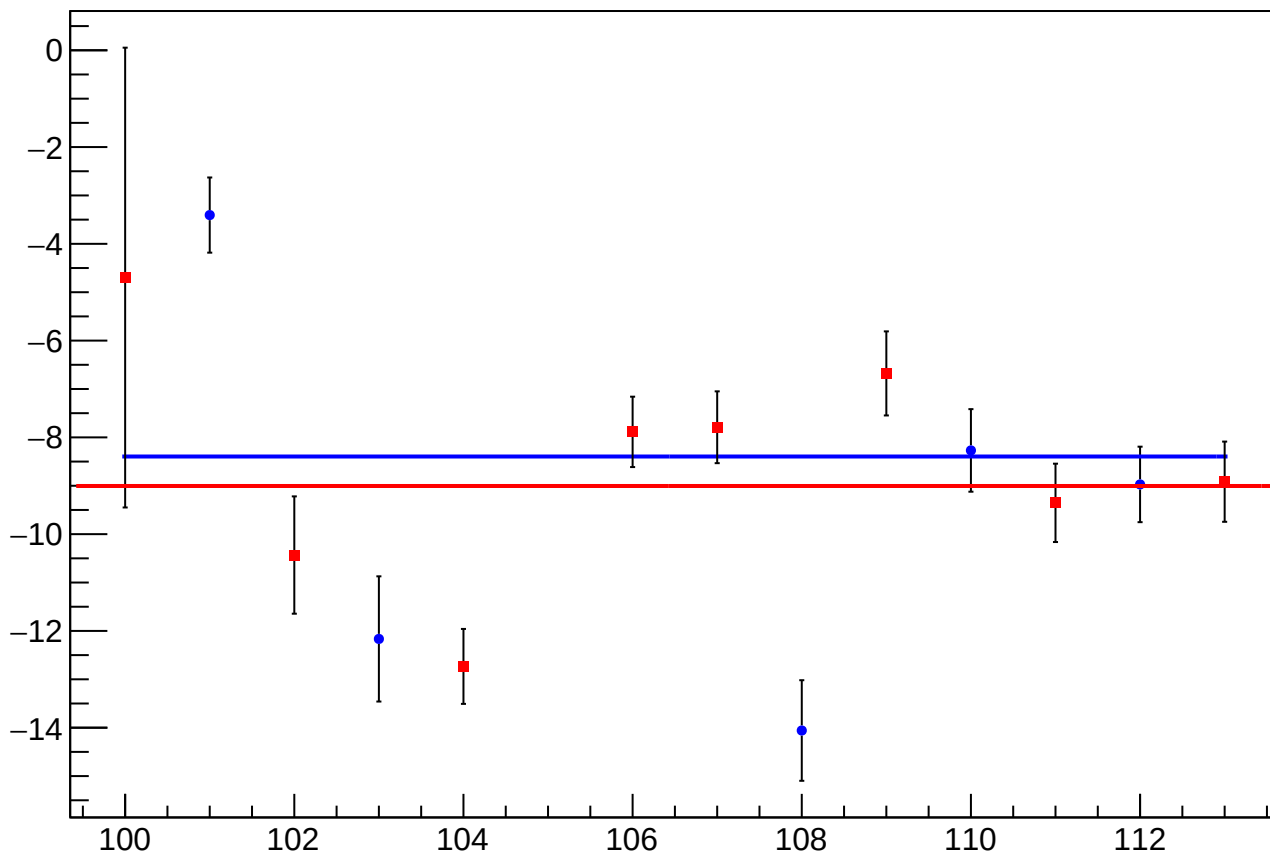
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-30.055 \pm 0.198$   $\chi^2/\text{NDF}$ : 851.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -8.395+/-0.402  $\chi^2/\text{NDF}$ : 80.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9.005+/-0.310  $\chi^2/\text{NDF}$ : 37.8/7

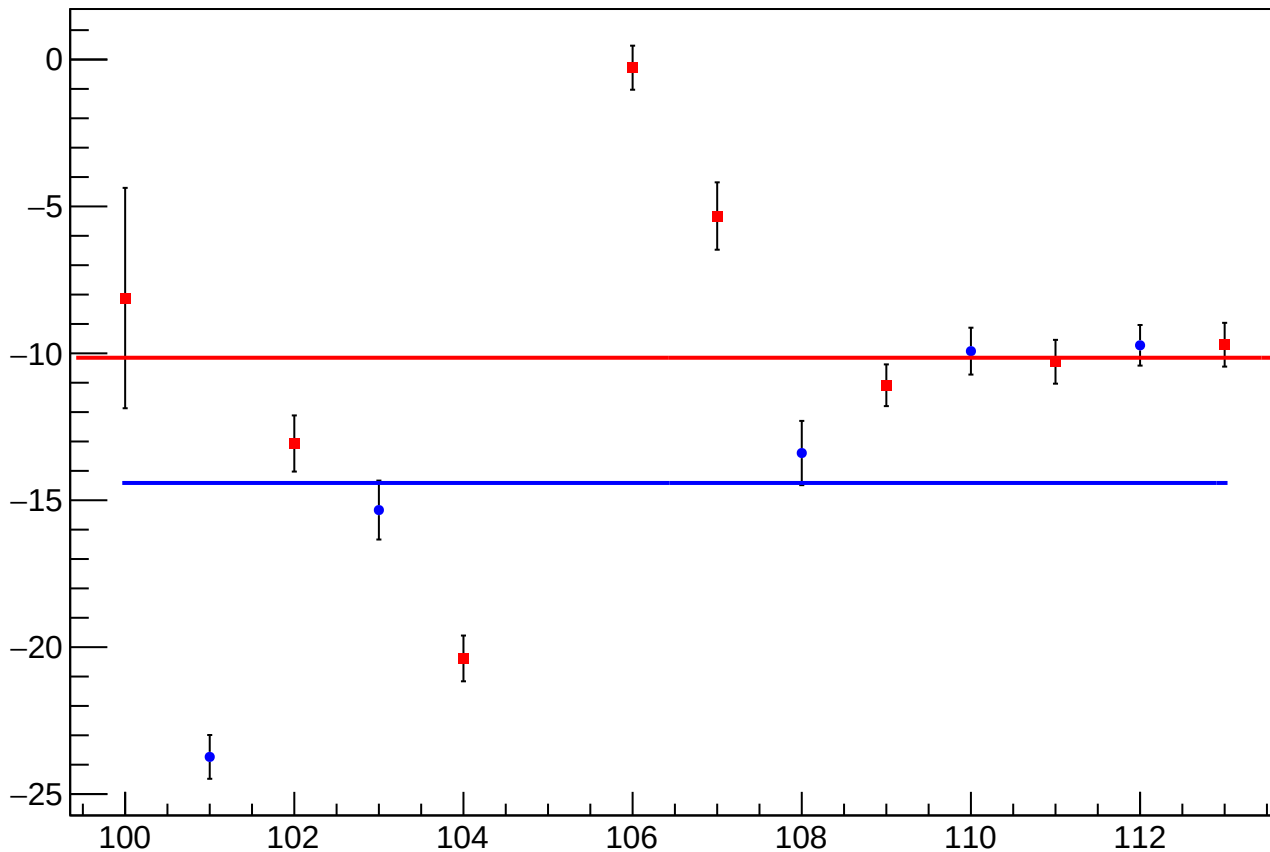
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.777+/-0.245  $\chi^2/\text{NDF}$ : 119.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-14.411 \pm 0.370$   $\chi^2/\text{NDF}$ : 235.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-10.150 \pm 0.302$   $\chi^2/\text{NDF}$ : 375.5/7

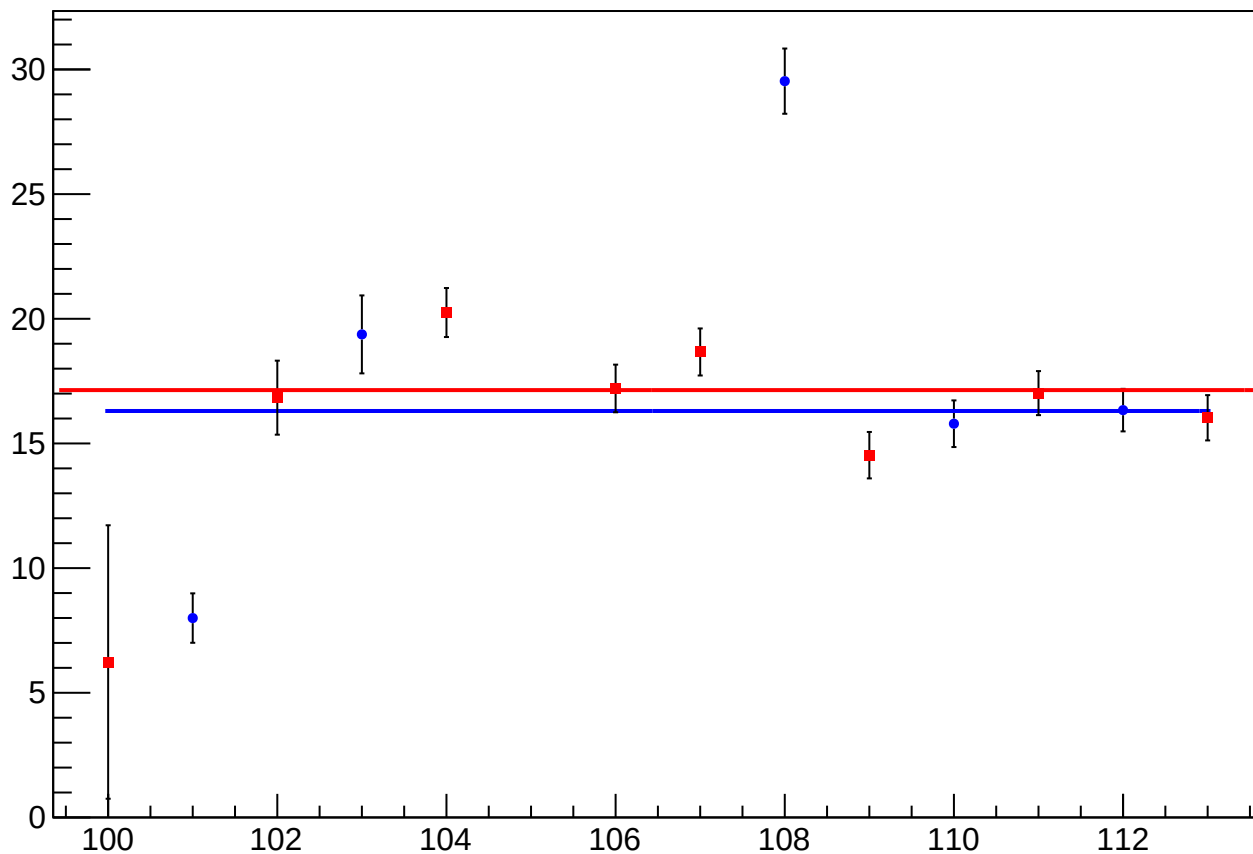
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-11.855 \pm 0.234$   $\chi^2/\text{NDF}$ : 690.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 16.302 $\pm$ 0.470  $\chi^2$ /NDF: 176.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.140 $\pm$ 0.368  $\chi^2$ /NDF: 26.0/7

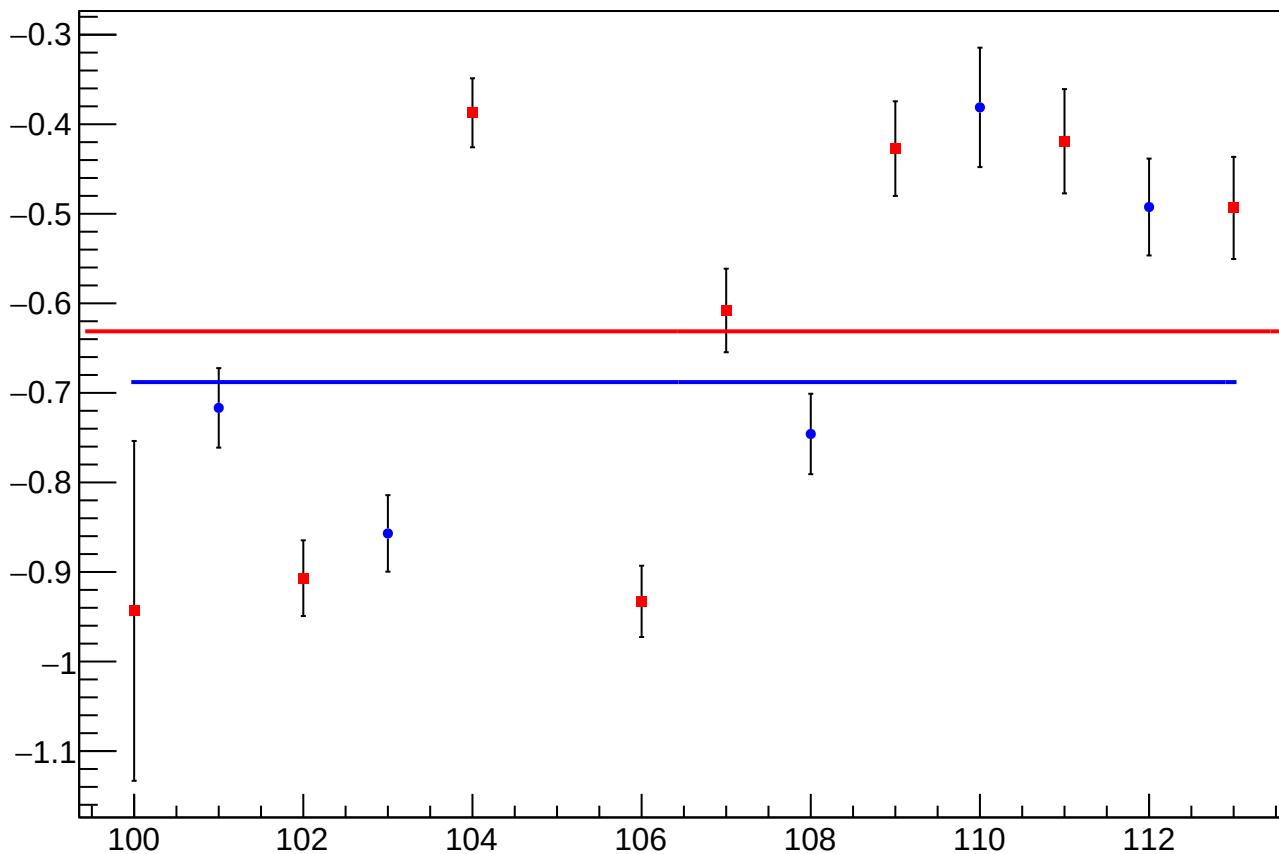
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.821 $\pm$ 0.290  $\chi^2$ /NDF: 204.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.688+/-0.022  $\chi^2/\text{NDF}$ : 51.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.631+/-0.017  $\chi^2/\text{NDF}$ : 177.1/7

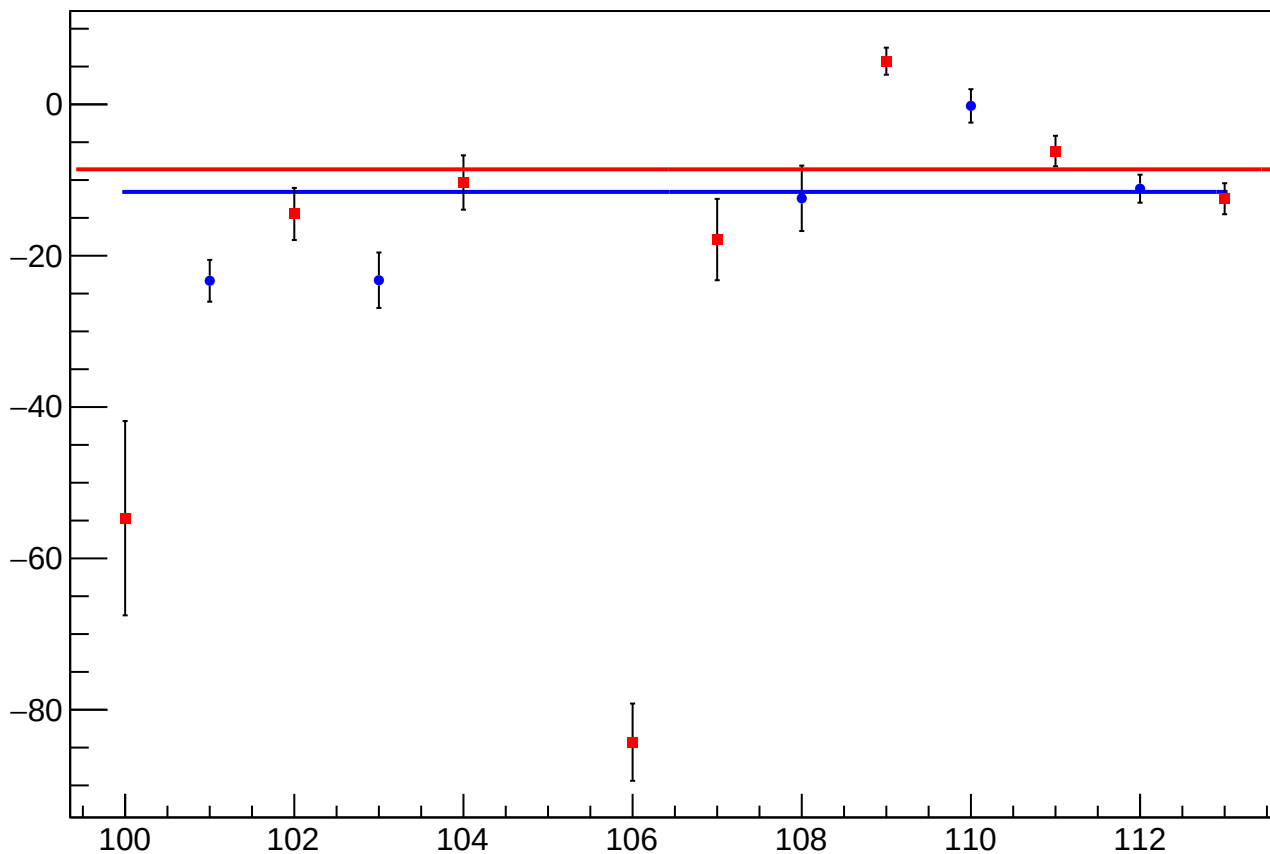
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.653+/-0.014  $\chi^2/\text{NDF}$ : 233.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -11.566 $\pm$ 1.150  $\chi^2$ /NDF: 54.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.584 $\pm$ 0.982  $\chi^2$ /NDF: 307.9/7

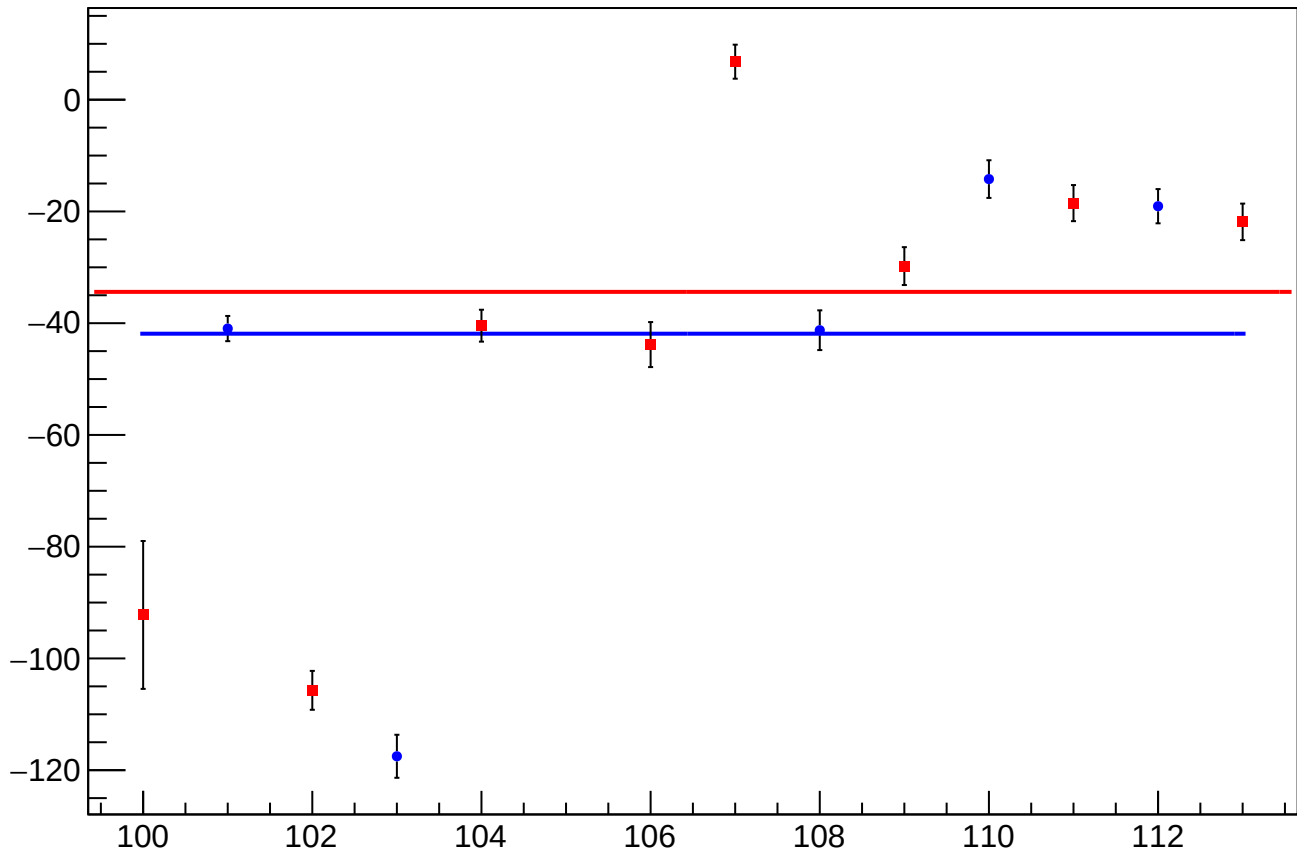
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9.842 $\pm$ 0.747  $\chi^2$ /NDF: 366.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-41.880 \pm 1.364$   $\chi^2/\text{NDF}$ : 508.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-34.395 \pm 1.234$   $\chi^2/\text{NDF}$ : 672.5/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

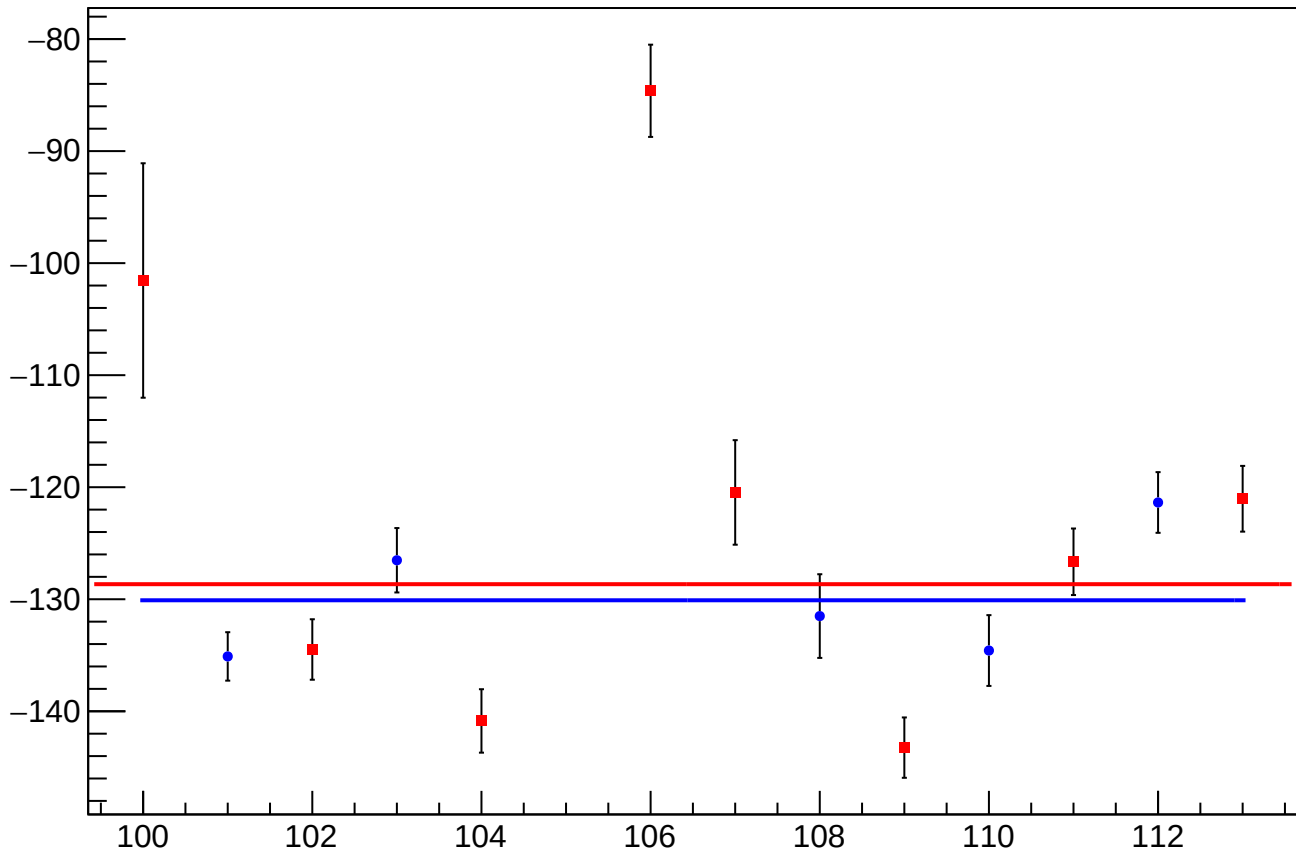
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-37.763 \pm 0.915$   $\chi^2/\text{NDF}$ : 1197.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -130.092 $\pm$ 1.247  $\chi^2$ /NDF: 19.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -128.656 $\pm$ 1.160  $\chi^2$ /NDF: 184.0/7

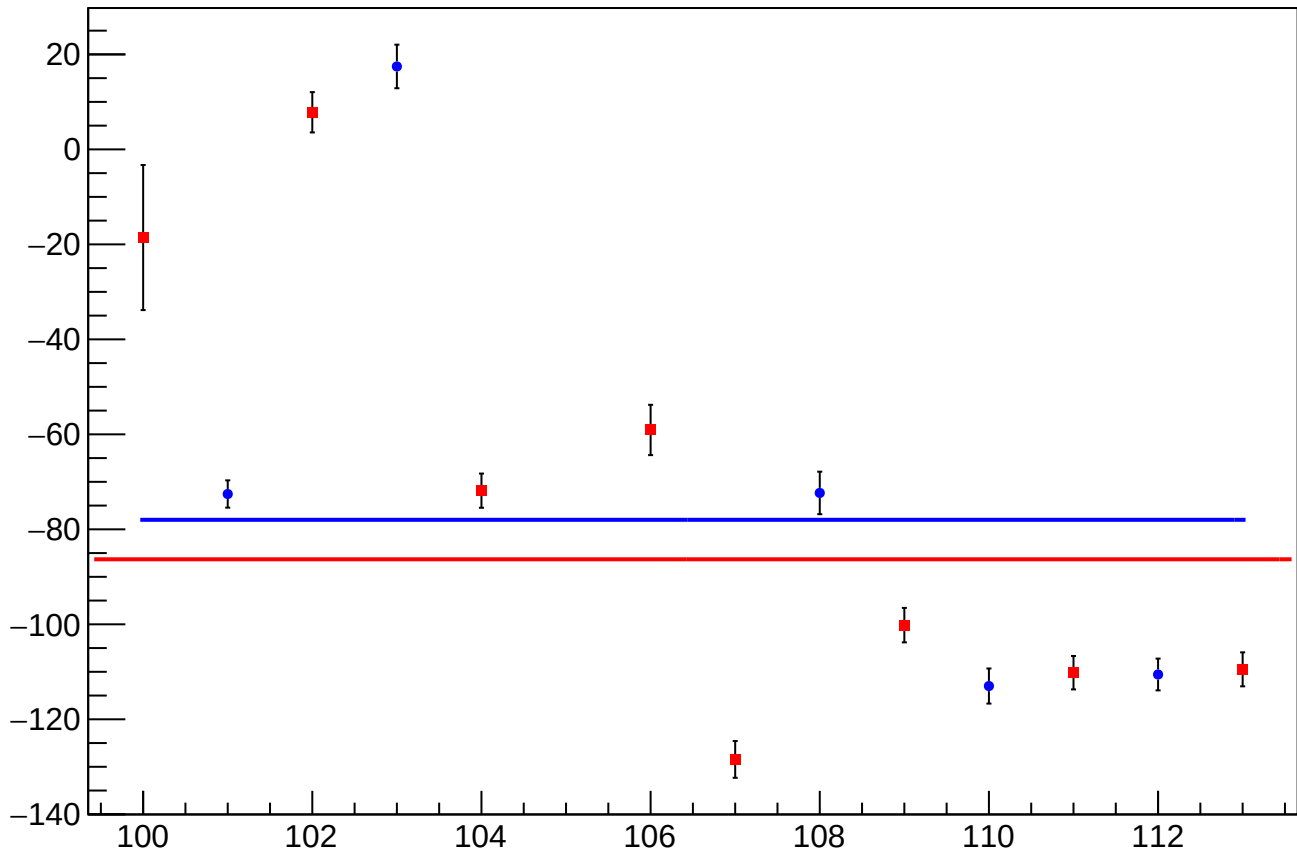
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -129.322 $\pm$ 0.849  $\chi^2$ /NDF: 204.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -77.994 $\pm$ 1.620  $\chi^2$ /NDF: 622.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -86.309 $\pm$ 1.453  $\chi^2$ /NDF: 775.0/7

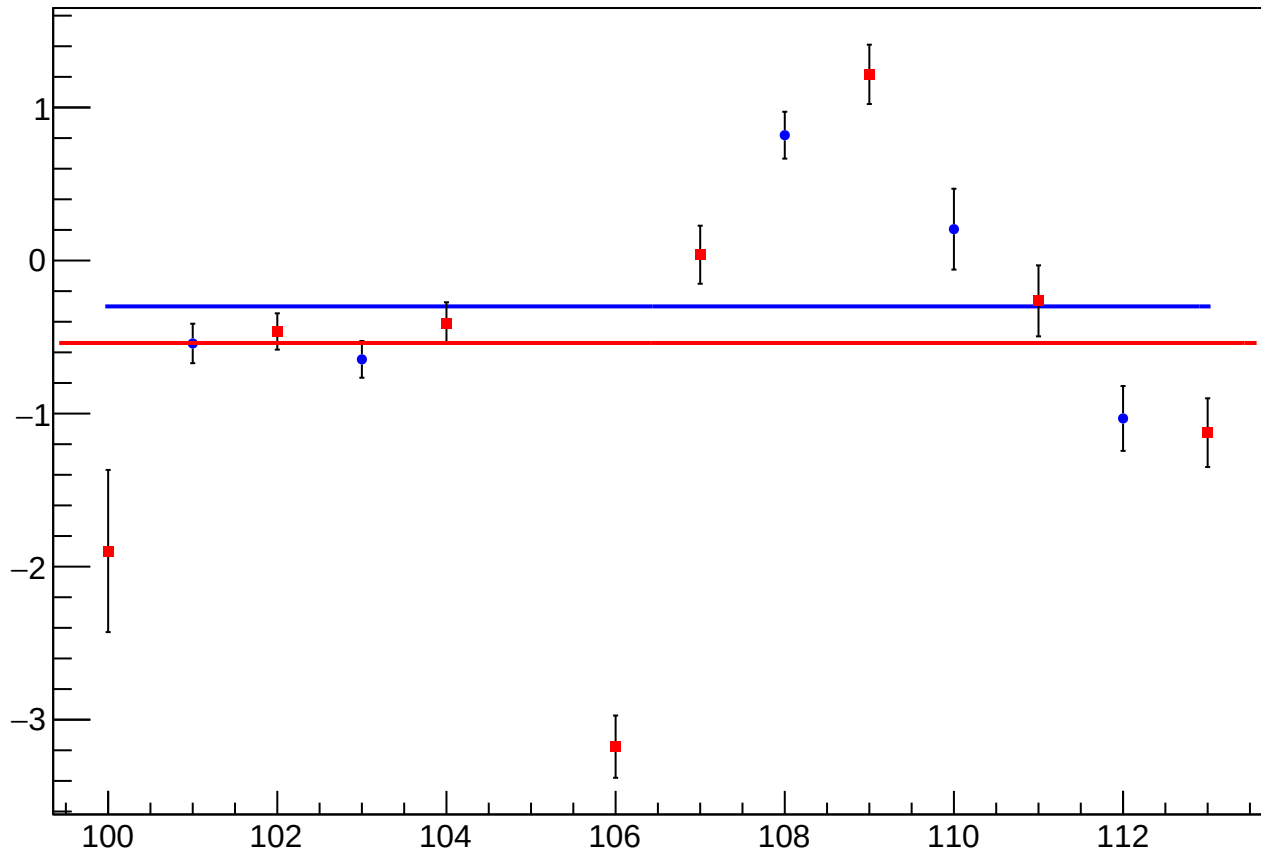
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -82.604 $\pm$ 1.082  $\chi^2$ /NDF: 1412.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.300 \pm 0.069$   $\chi^2/\text{NDF}$ : 80.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.539 \pm 0.064$   $\chi^2/\text{NDF}$ : 275.4/7

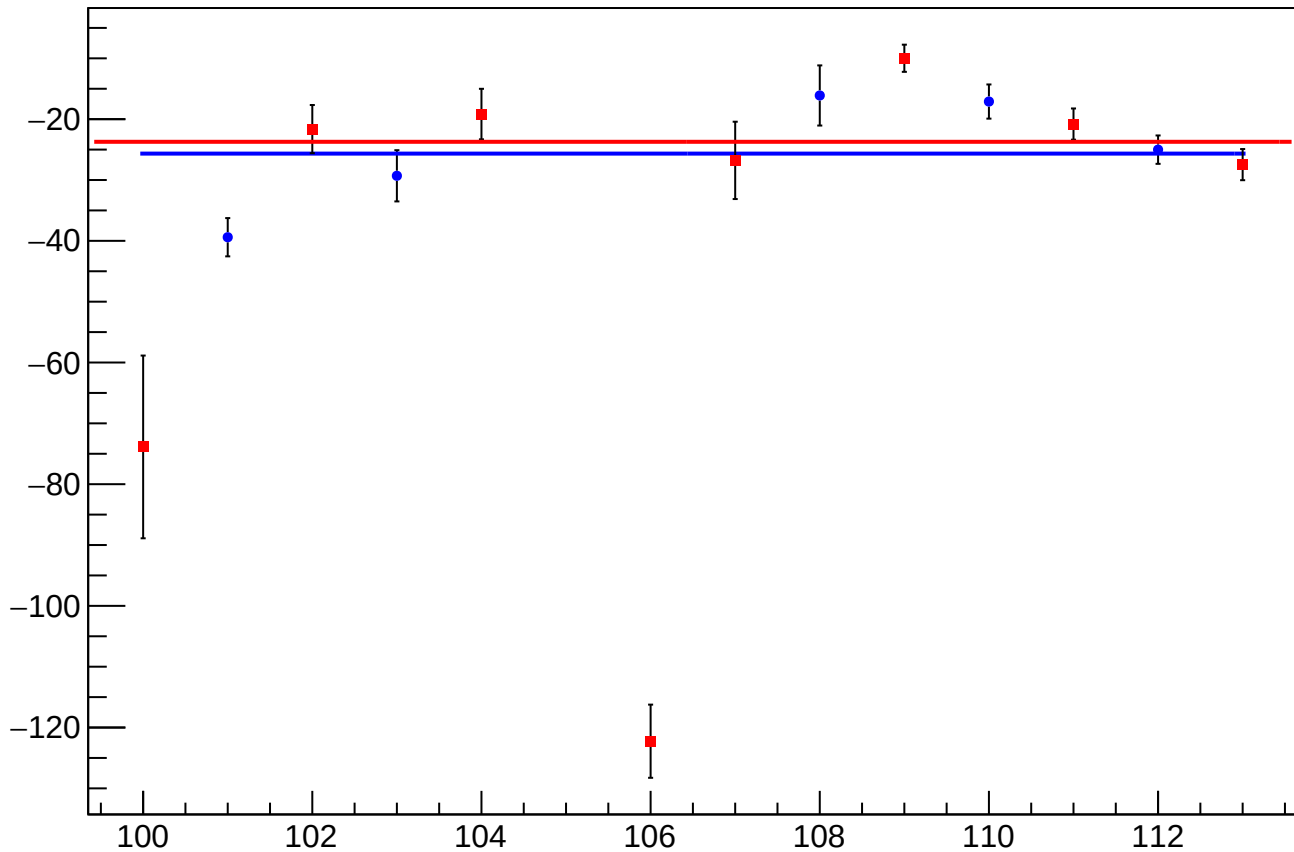
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.429 \pm 0.047$   $\chi^2/\text{NDF}$ : 362.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -25.660+/-1.402  $\chi^2/\text{NDF}$ : 32.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -23.719+/-1.209  $\chi^2/\text{NDF}$ : 322.5/7

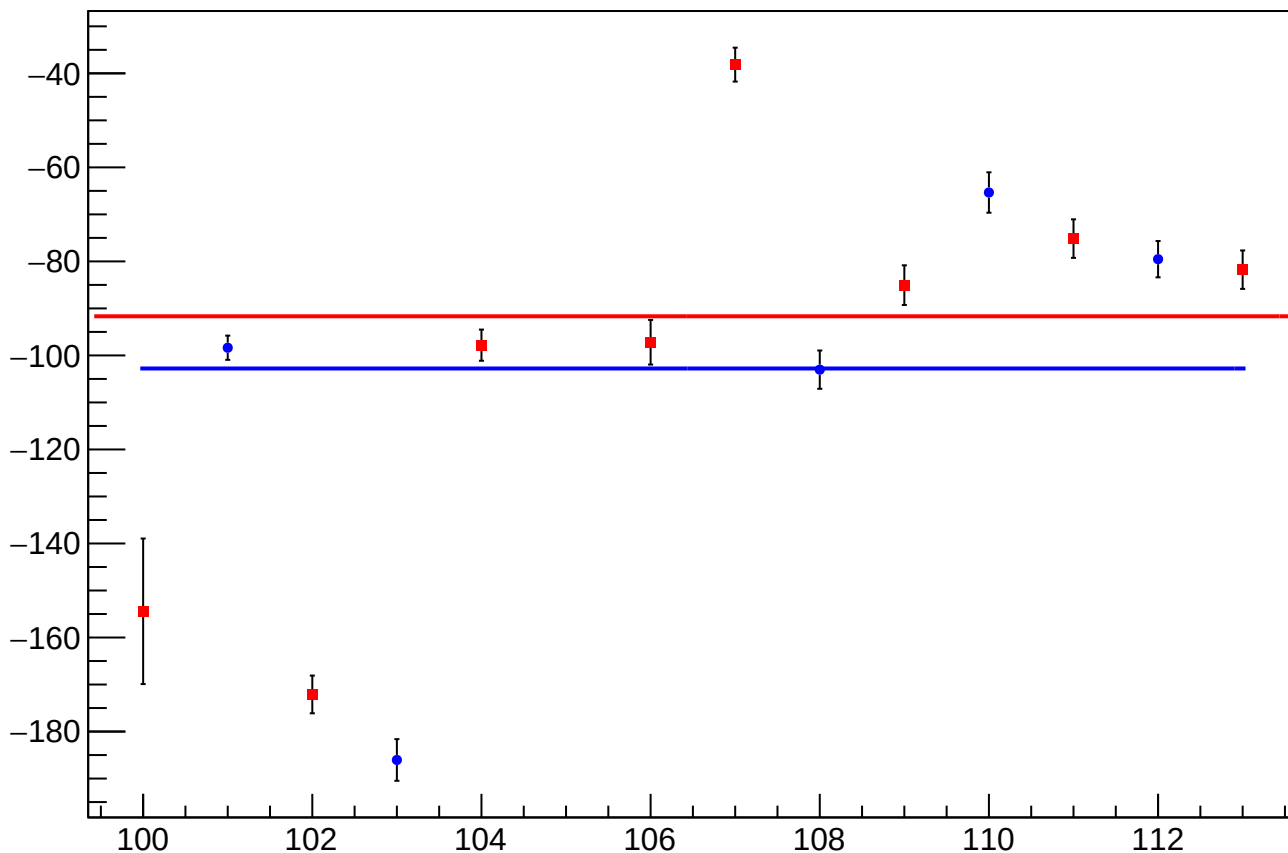
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -24.547+/-0.916  $\chi^2/\text{NDF}$ : 356.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -102.777+/-1.615  $\chi^2/\text{NDF}$ : 468.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -91.674+/-1.484  $\chi^2/\text{NDF}$ : 667.9/7

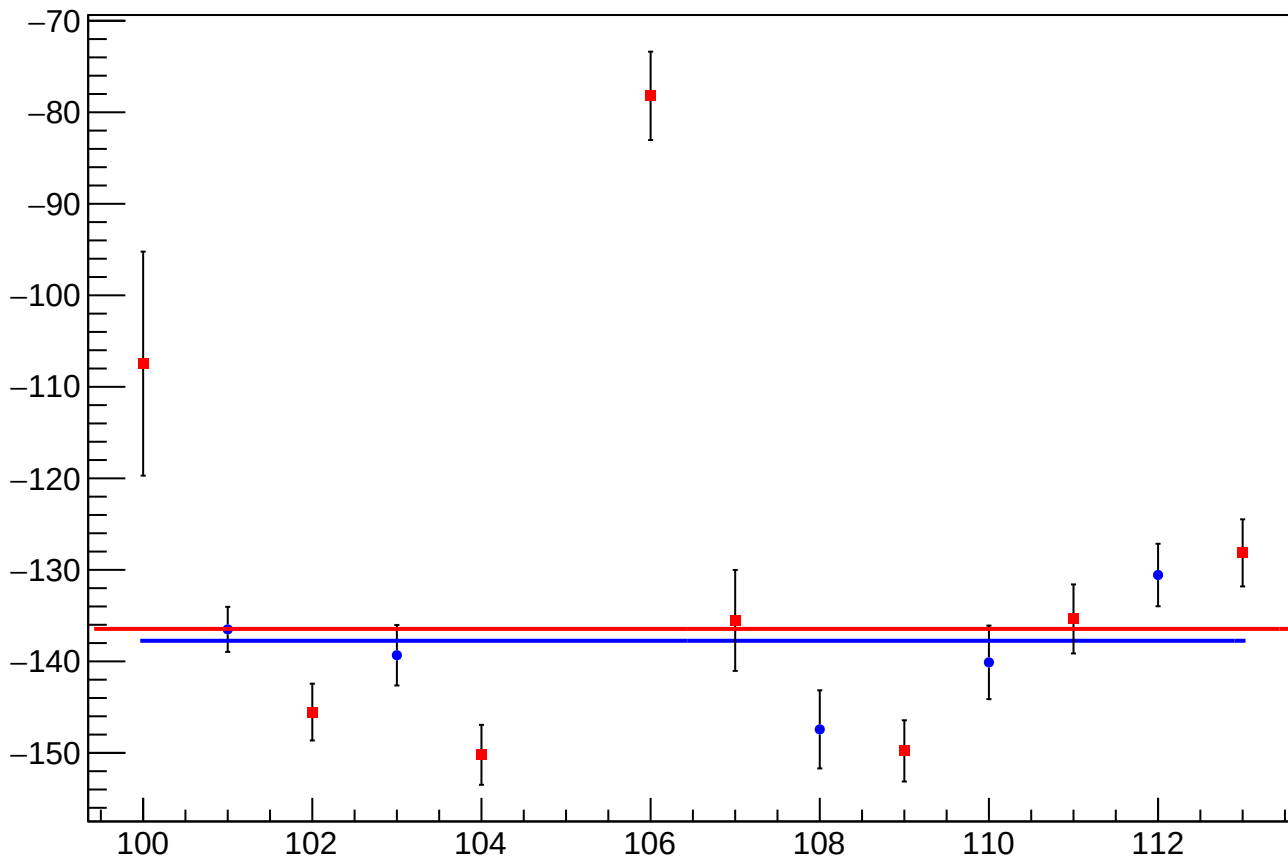
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -96.757+/-1.093  $\chi^2/\text{NDF}$ : 1161.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-137.748 \pm 1.476$   $\chi^2/\text{NDF}$ : 10.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-136.451 \pm 1.395$   $\chi^2/\text{NDF}$ : 198.5/7

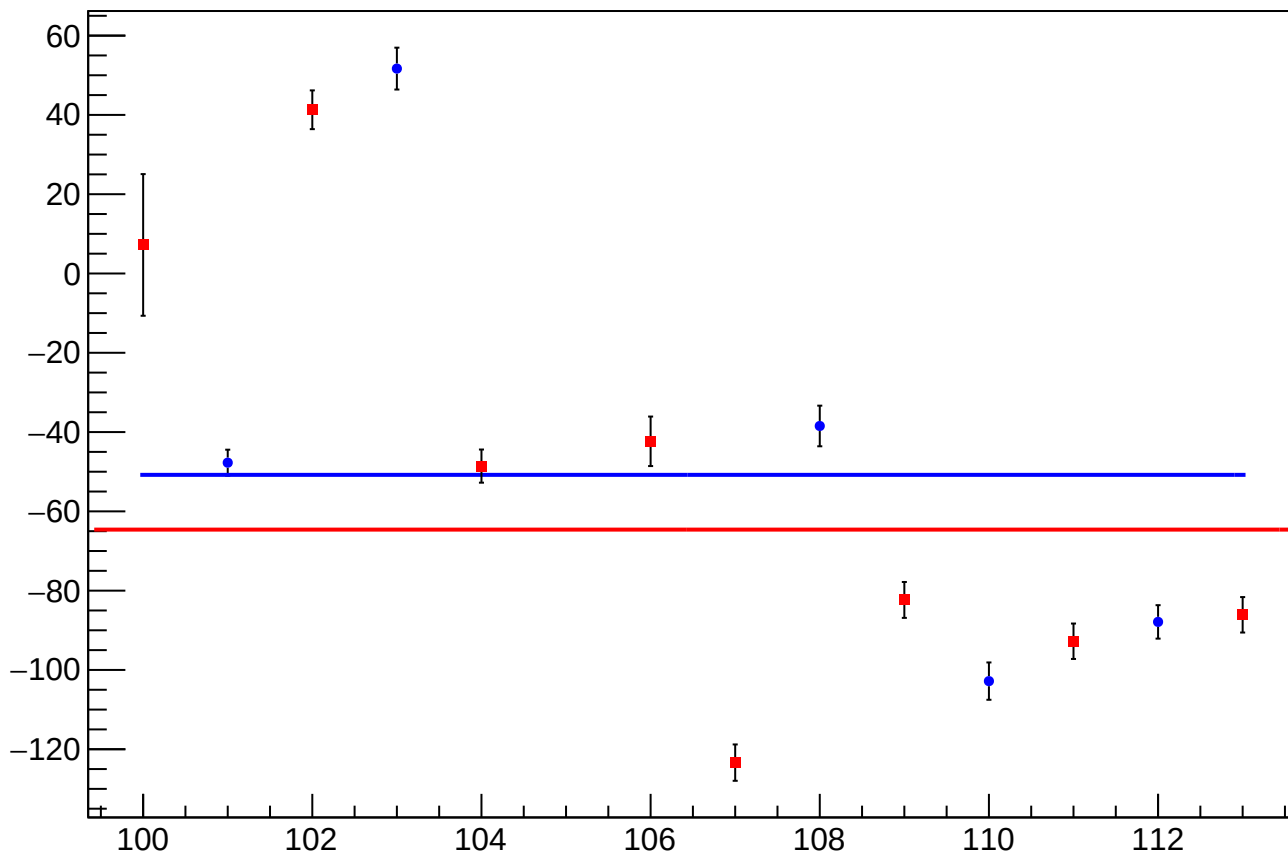
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-137.063 \pm 1.014$   $\chi^2/\text{NDF}$ : 209.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-50.791 \pm 1.931$   $\chi^2/\text{NDF}$ : 582.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-64.602 \pm 1.756$   $\chi^2/\text{NDF}$ : 755.5/7

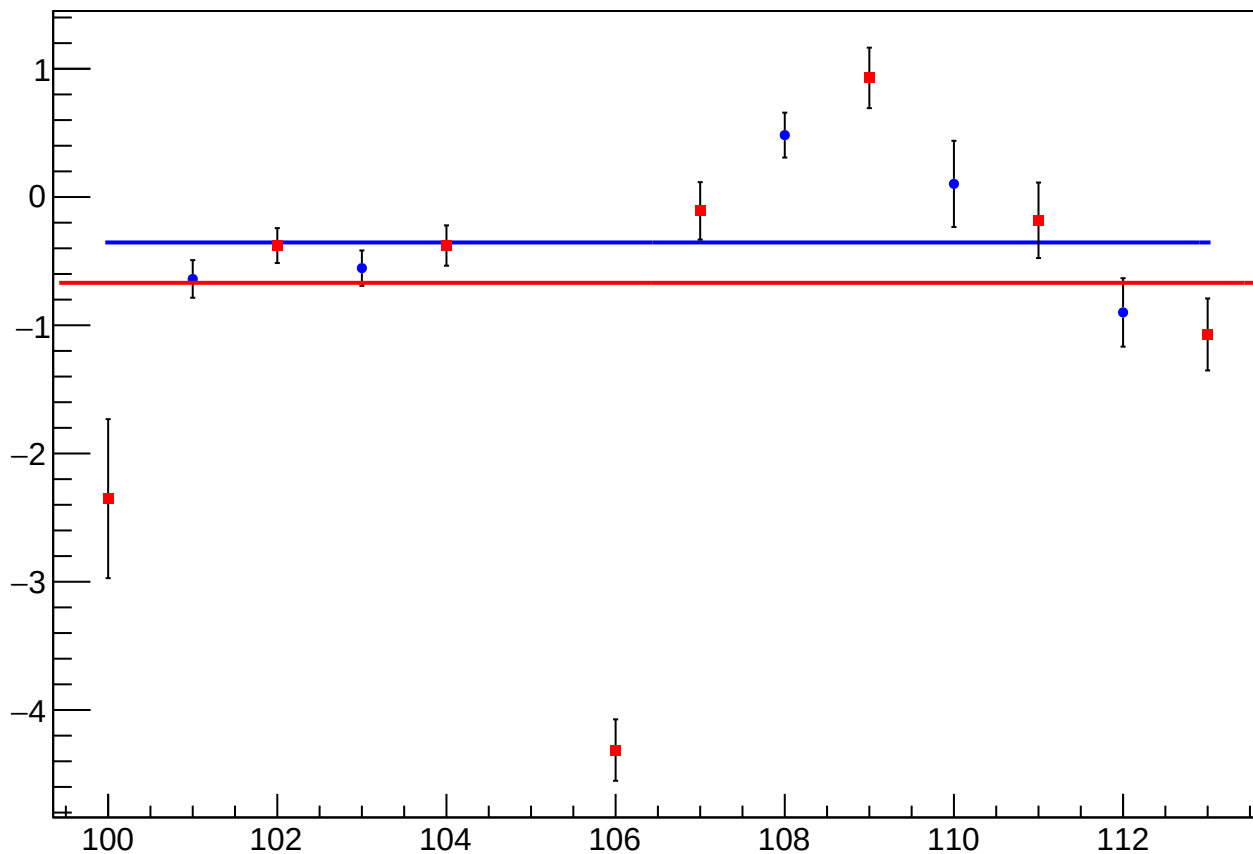
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-58.349 \pm 1.299$   $\chi^2/\text{NDF}$ : 1366.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.354 \pm 0.080$   $\chi^2/\text{NDF}$ : 34.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.669 \pm 0.075$   $\chi^2/\text{NDF}$ : 303.6/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

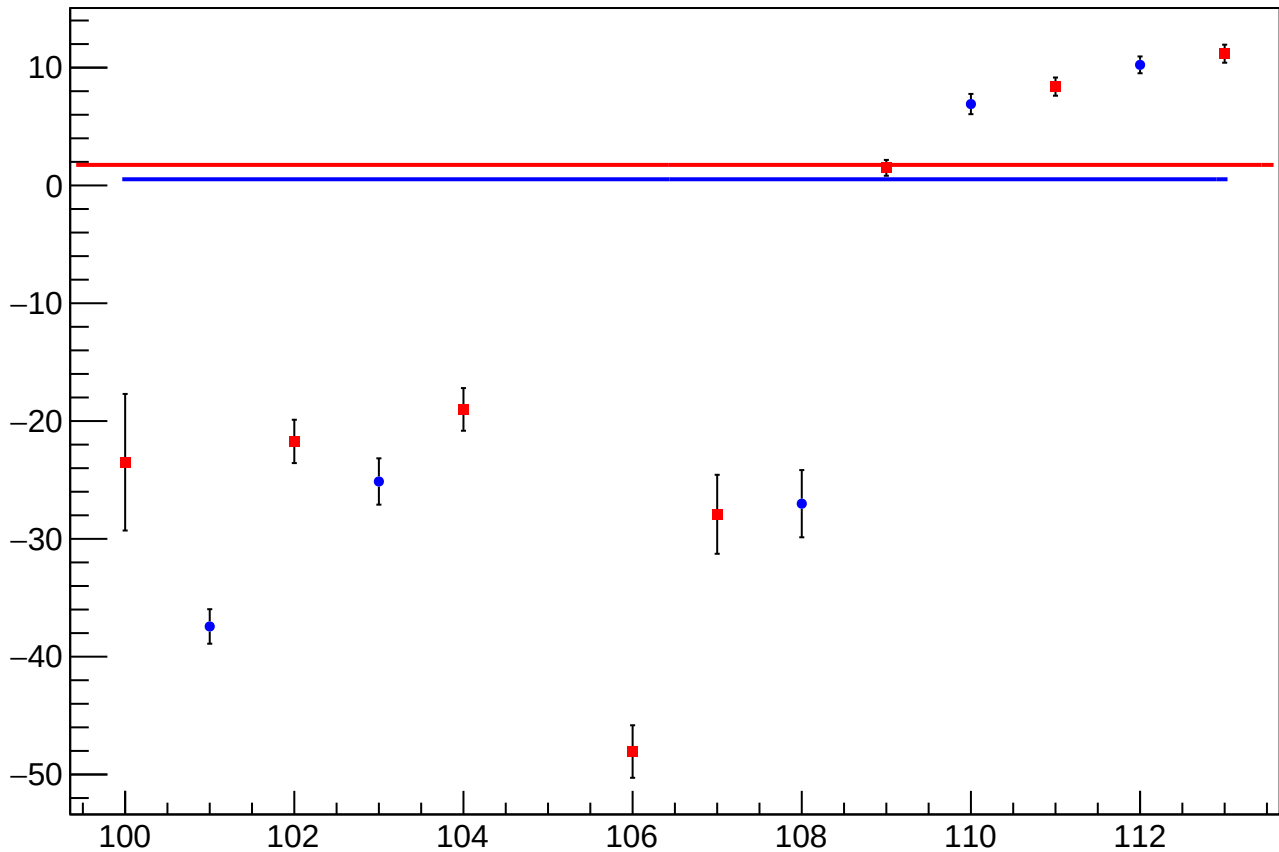
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.522 \pm 0.055$   $\chi^2/\text{NDF}$ : 346.5/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_48\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.524+/-0.490  $\chi^2/\text{NDF}$ : 1175.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.744+/-0.392  $\chi^2/\text{NDF}$ : 1116.6/7

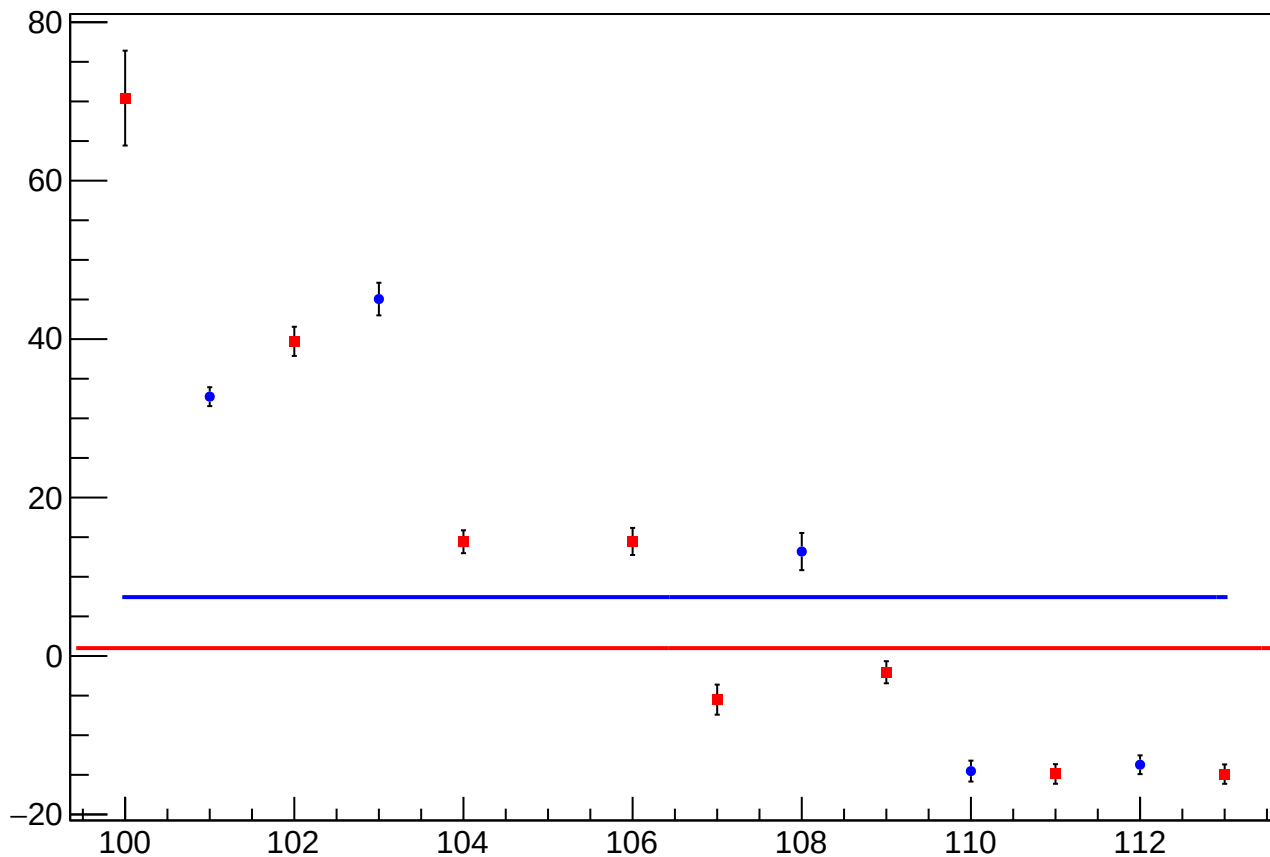
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.268+/-0.306  $\chi^2/\text{NDF}$ : 2295.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 7.432 $\pm$ 0.645  $\chi^2$ /NDF: 1386.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.995 $\pm$ 0.554  $\chi^2$ /NDF: 1076.0/7

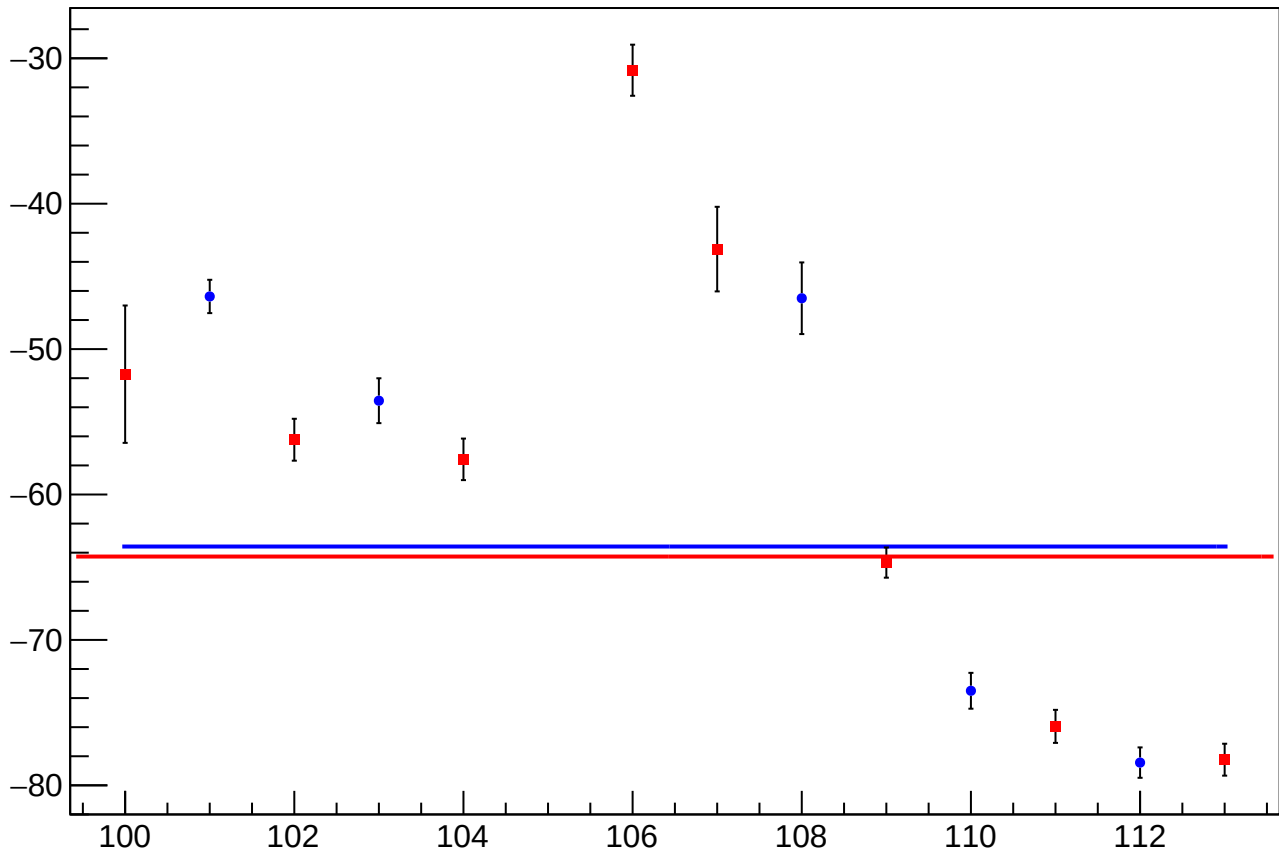
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.729 $\pm$ 0.420  $\chi^2$ /NDF: 2519.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -63.577 $\pm$ 0.585  $\chi^2$ /NDF: 582.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -64.266 $\pm$ 0.501  $\chi^2$ /NDF: 743.0/7

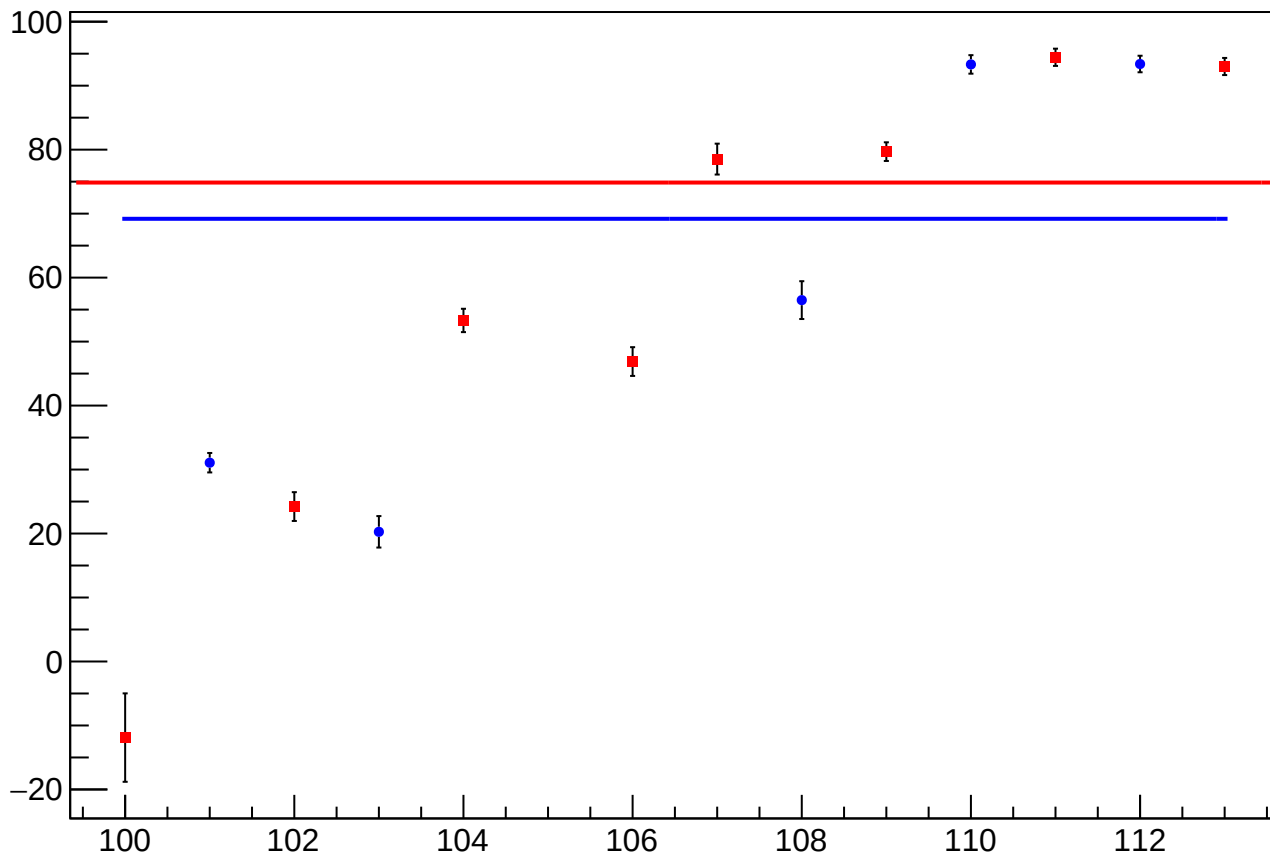
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -63.975 $\pm$ 0.380  $\chi^2$ /NDF: 1326.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 69.193+/-0.748  $\chi^2/\text{NDF}$ : 1672.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 74.858+/-0.636  $\chi^2/\text{NDF}$ : 1367.2/7

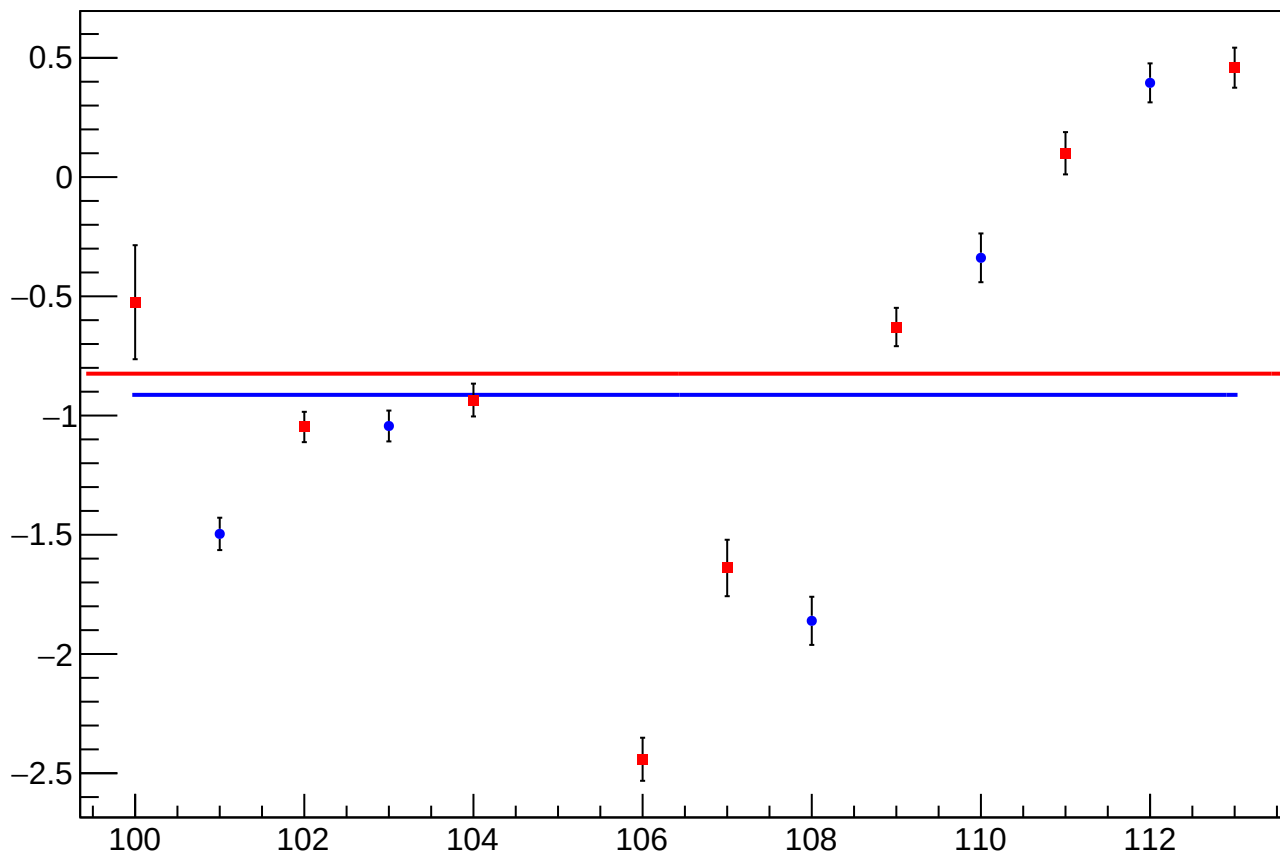
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 72.477+/-0.485  $\chi^2/\text{NDF}$ : 3072.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.913 $\pm$ 0.035  $\chi^2$ /NDF: 453.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.824 $\pm$ 0.030  $\chi^2$ /NDF: 732.8/7

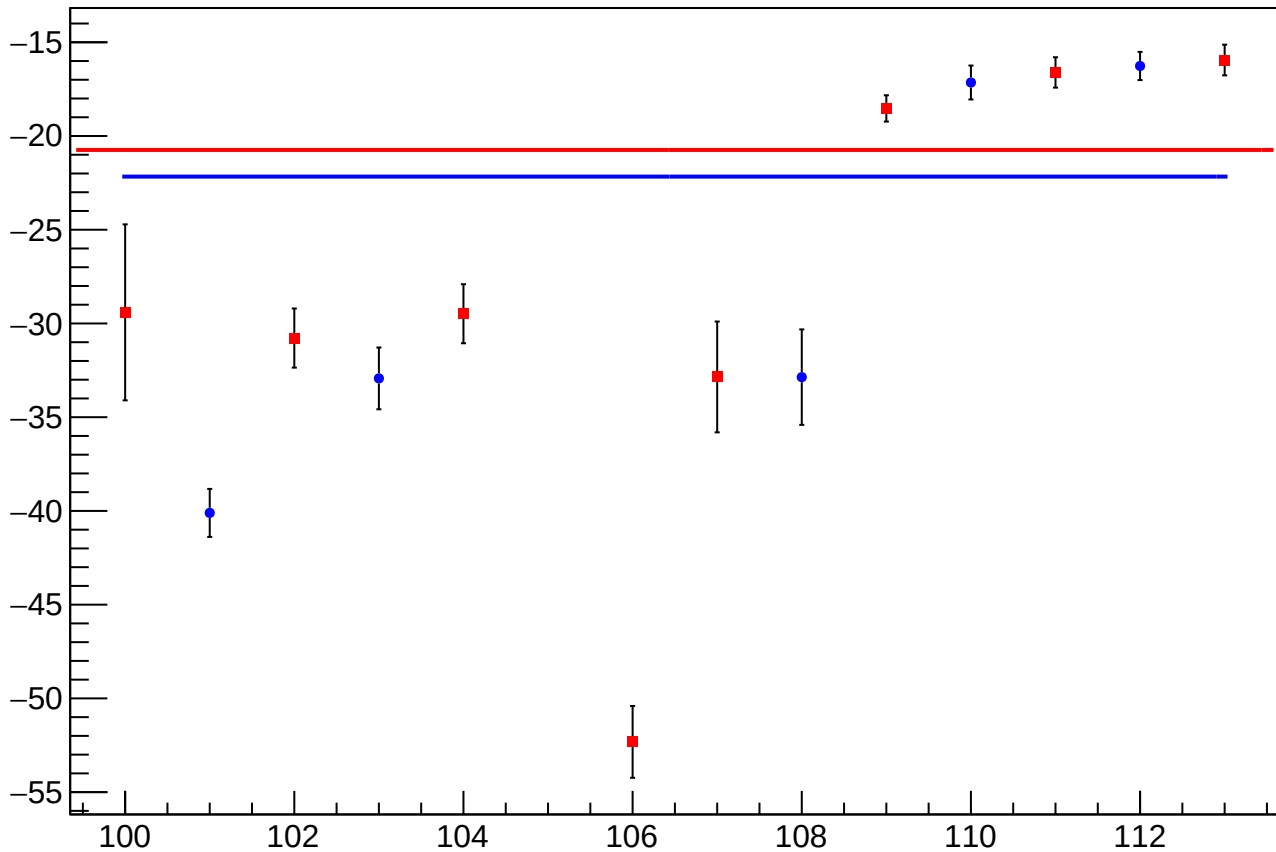
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.862 $\pm$ 0.023  $\chi^2$ /NDF: 1190.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-22.166 \pm 0.493$   $\chi^2/\text{NDF}$ : 349.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-20.744 \pm 0.399$   $\chi^2/\text{NDF}$ : 433.9/7

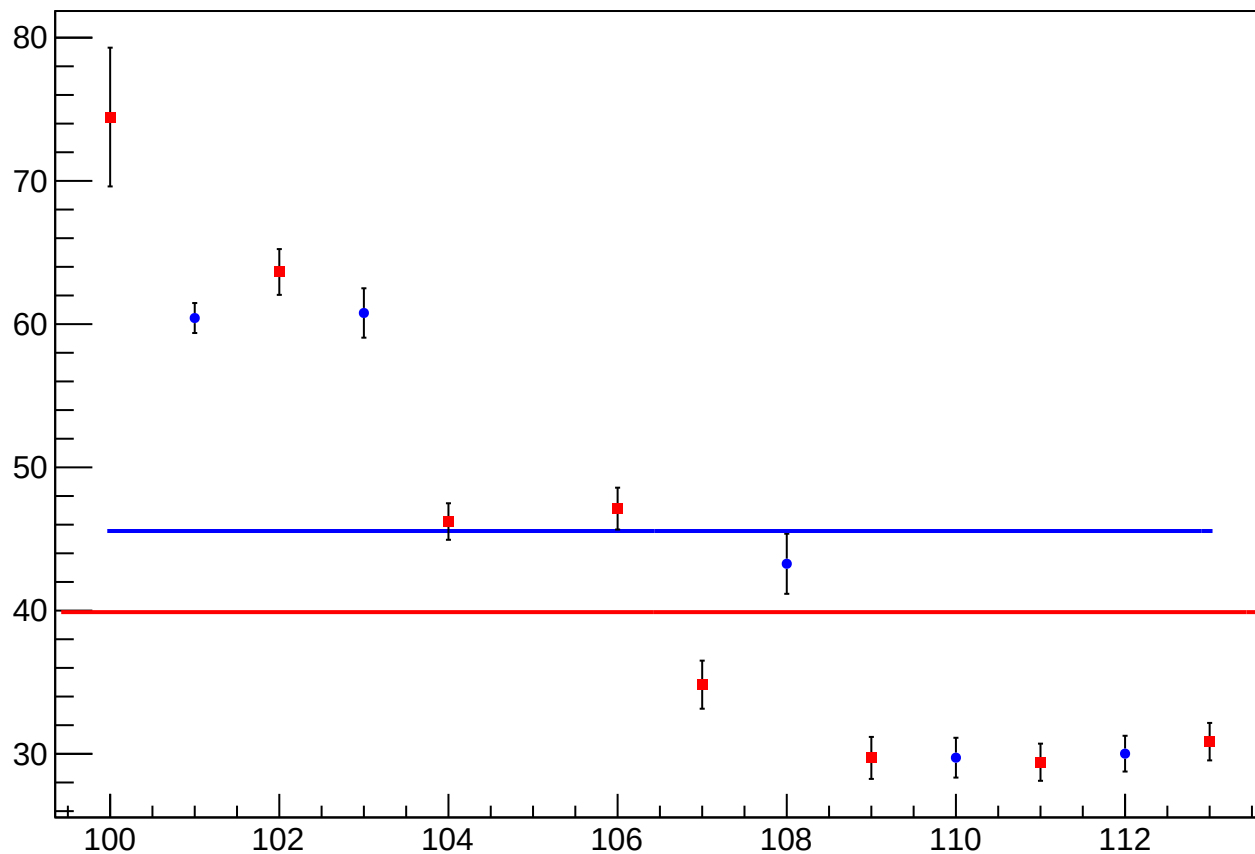
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-21.307 \pm 0.310$   $\chi^2/\text{NDF}$ : 788.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 45.557 $\pm$ 0.616  $\chi^2$ /NDF: 565.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 39.894 $\pm$ 0.533  $\chi^2$ /NDF: 491.2/7

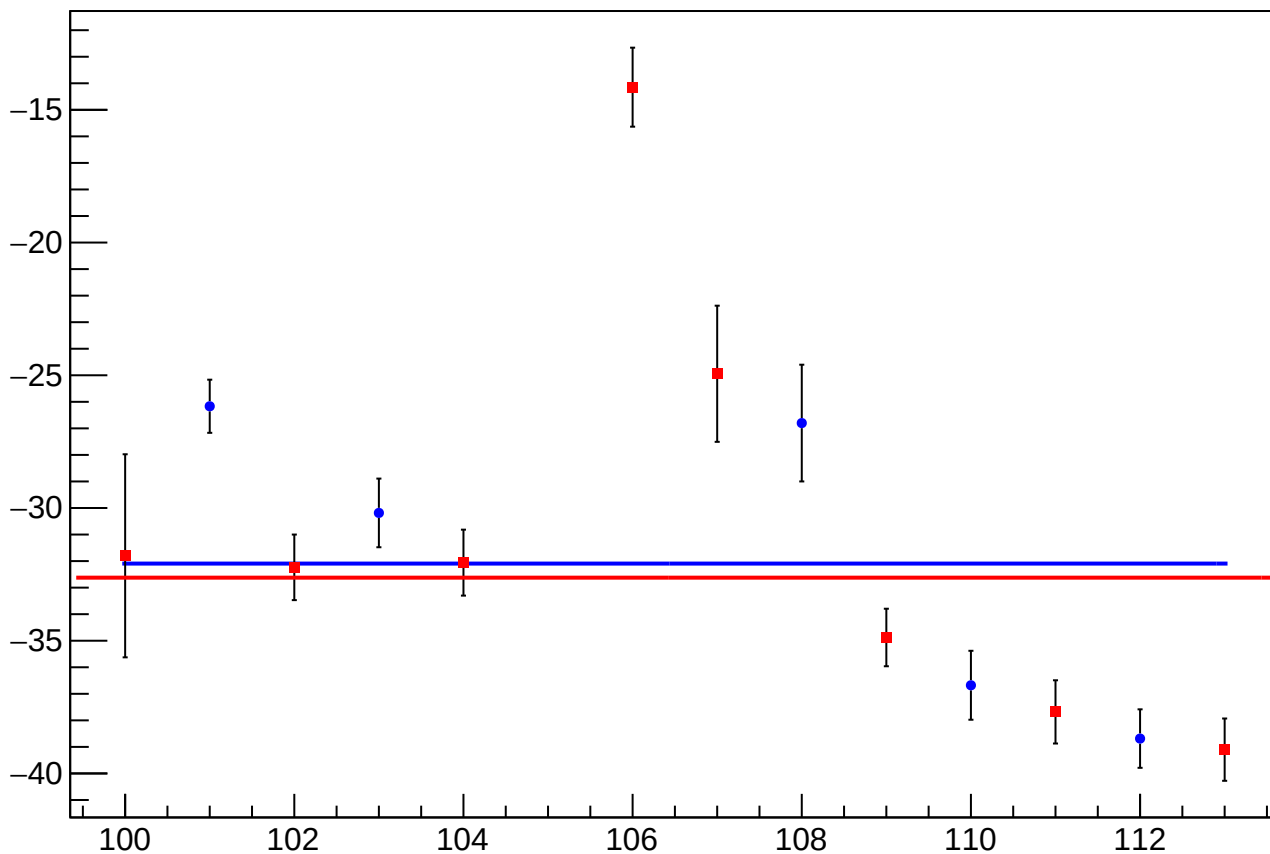
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 42.320 $\pm$ 0.403  $\chi^2$ /NDF: 1105.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-32.094 \pm 0.557$   $\chi^2/\text{NDF}$ : 91.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-32.624 \pm 0.485$   $\chi^2/\text{NDF}$ : 216.3/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

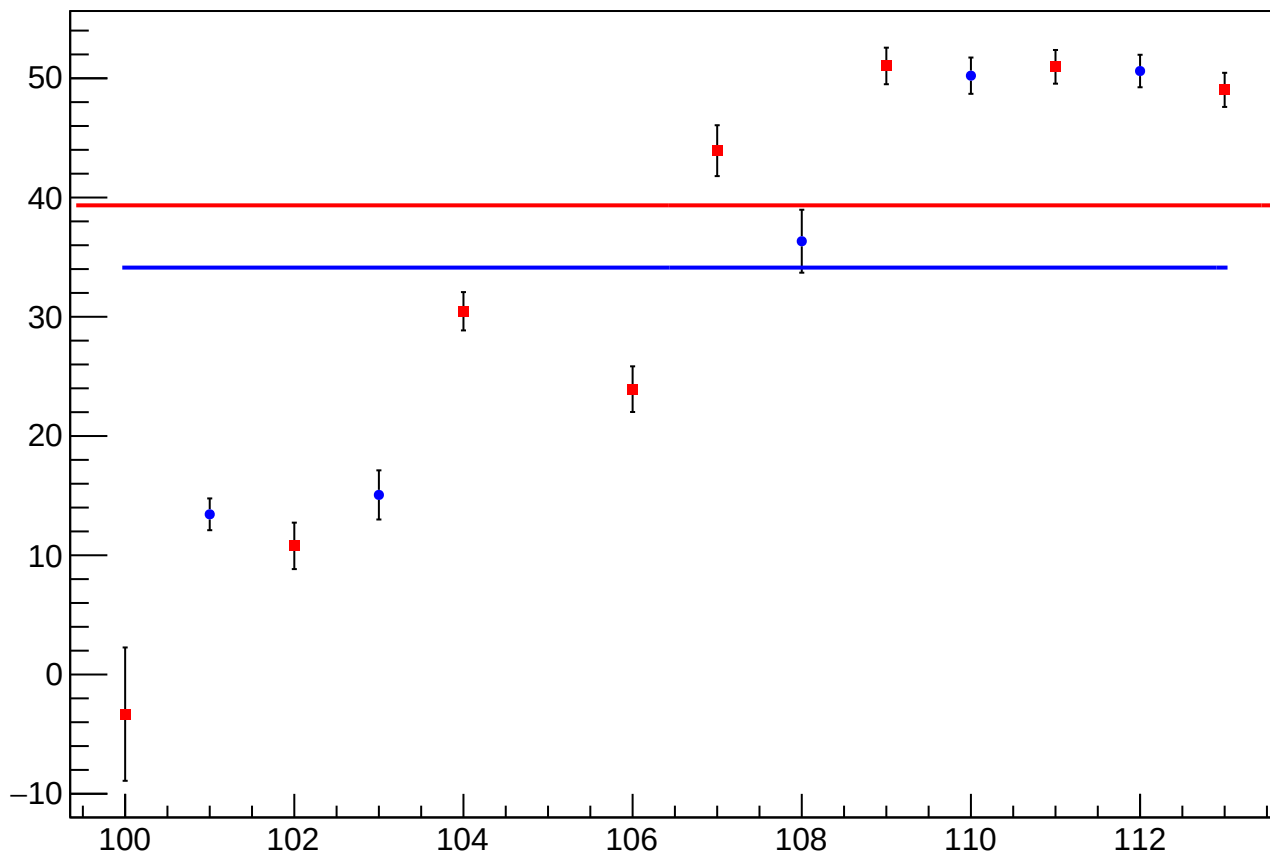
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-32.396 \pm 0.366$   $\chi^2/\text{NDF}$ : 308.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 34.125 $\pm$ 0.723  $\chi^2$ /NDF: 585.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 39.345 $\pm$ 0.621  $\chi^2$ /NDF: 544.9/7

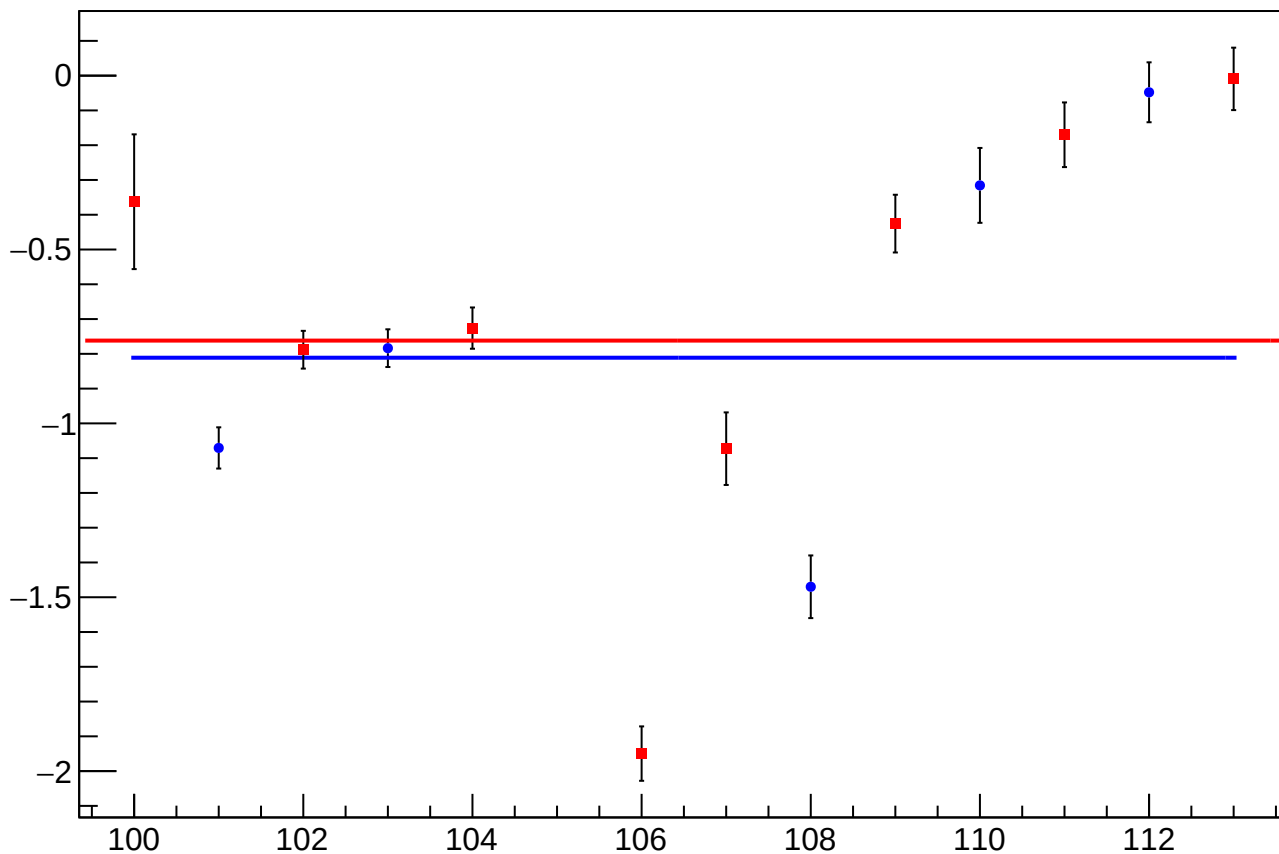
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.128 $\pm$ 0.471  $\chi^2$ /NDF: 1160.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.811 \pm 0.032$   $\chi^2/\text{NDF}$ : 172.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.762 \pm 0.028$   $\chi^2/\text{NDF}$ : 371.5/7

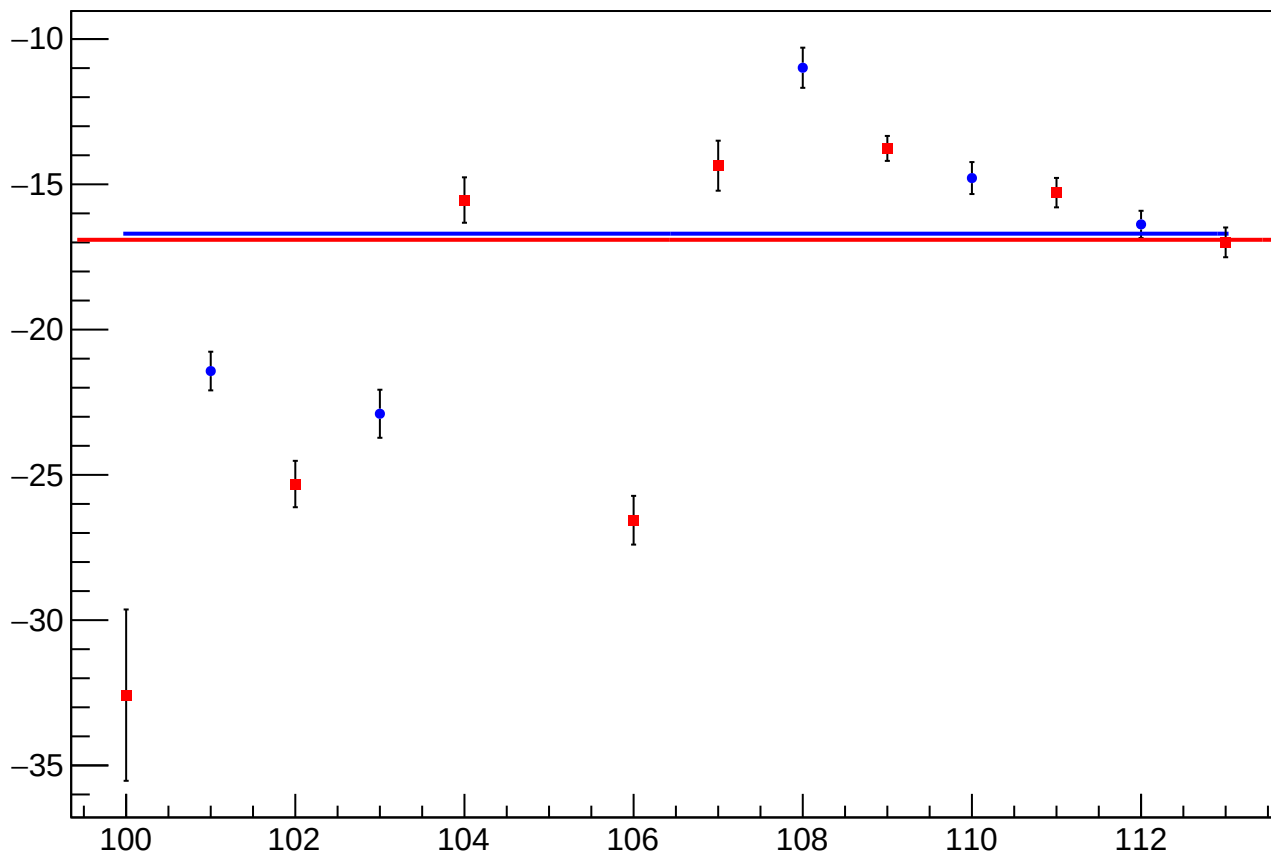
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.783 \pm 0.021$   $\chi^2/\text{NDF}$ : 545.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -16.698+/-0.270  $\chi^2/\text{NDF}$ : 187.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -16.909+/-0.228  $\chi^2/\text{NDF}$ : 347.3/7

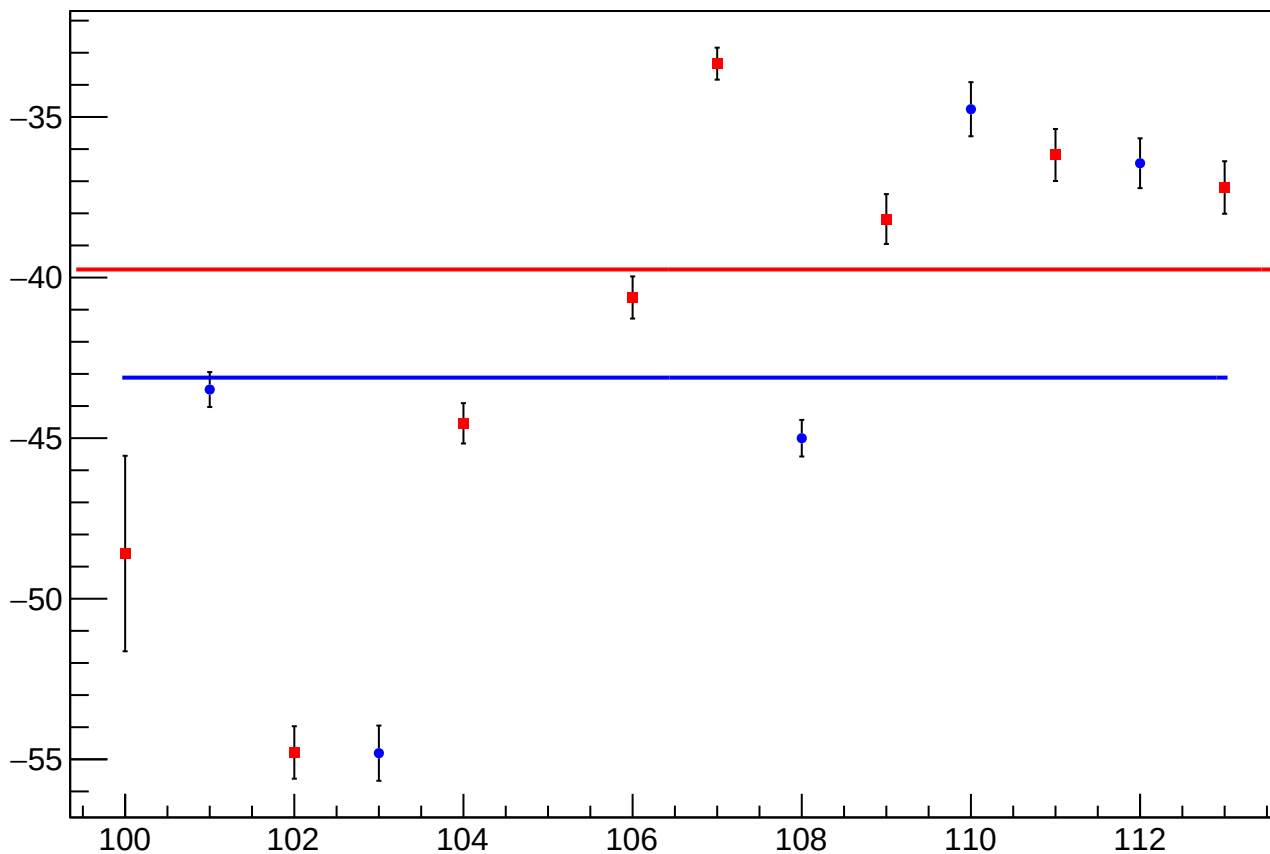
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -16.821+/-0.174  $\chi^2/\text{NDF}$ : 535.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-43.115 \pm 0.303$   $\chi^2/\text{NDF}$ : 368.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-39.748 \pm 0.257$   $\chi^2/\text{NDF}$ : 606.6/7

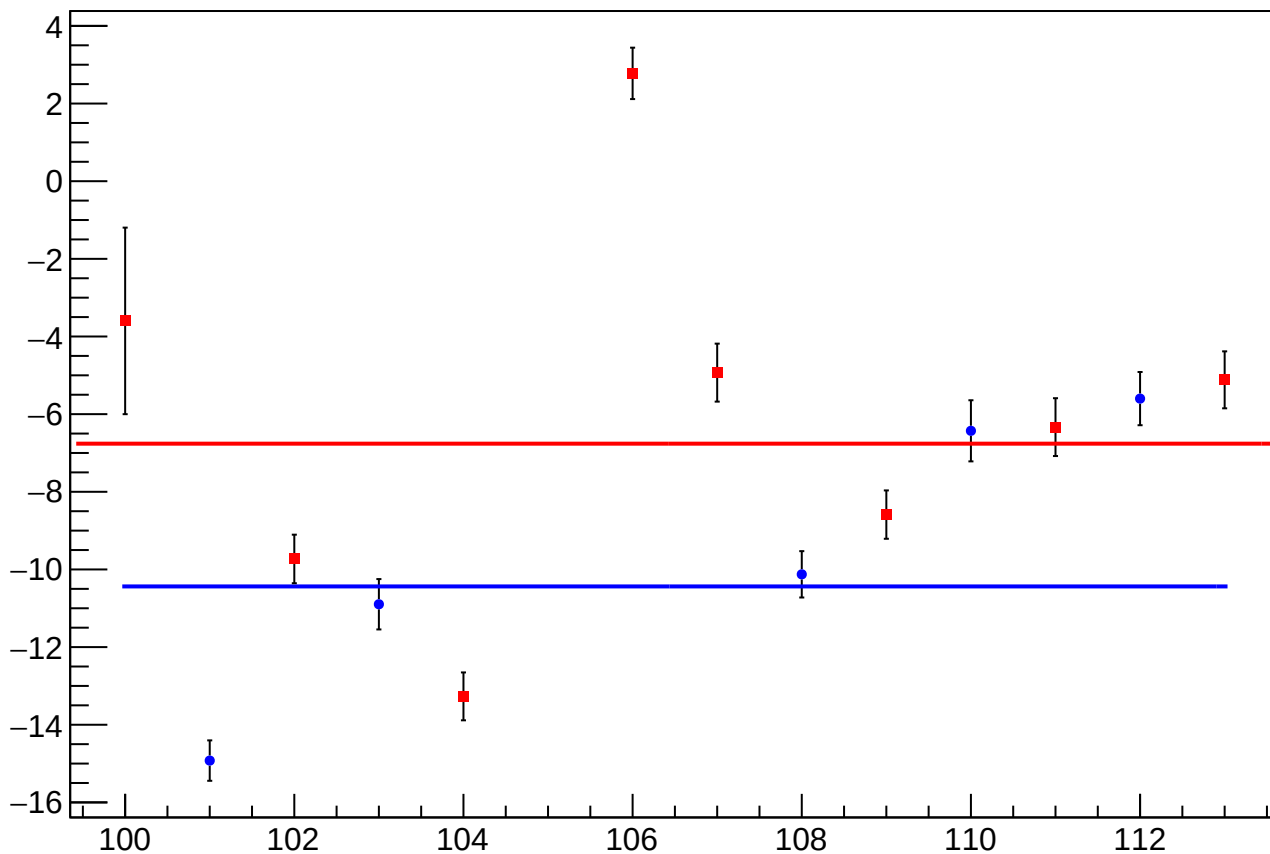
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-41.154 \pm 0.196$   $\chi^2/\text{NDF}$ : 1047.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-10.437 \pm 0.282$   $\chi^2/\text{NDF}$ : 150.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-6.760 \pm 0.253$   $\chi^2/\text{NDF}$ : 363.2/7

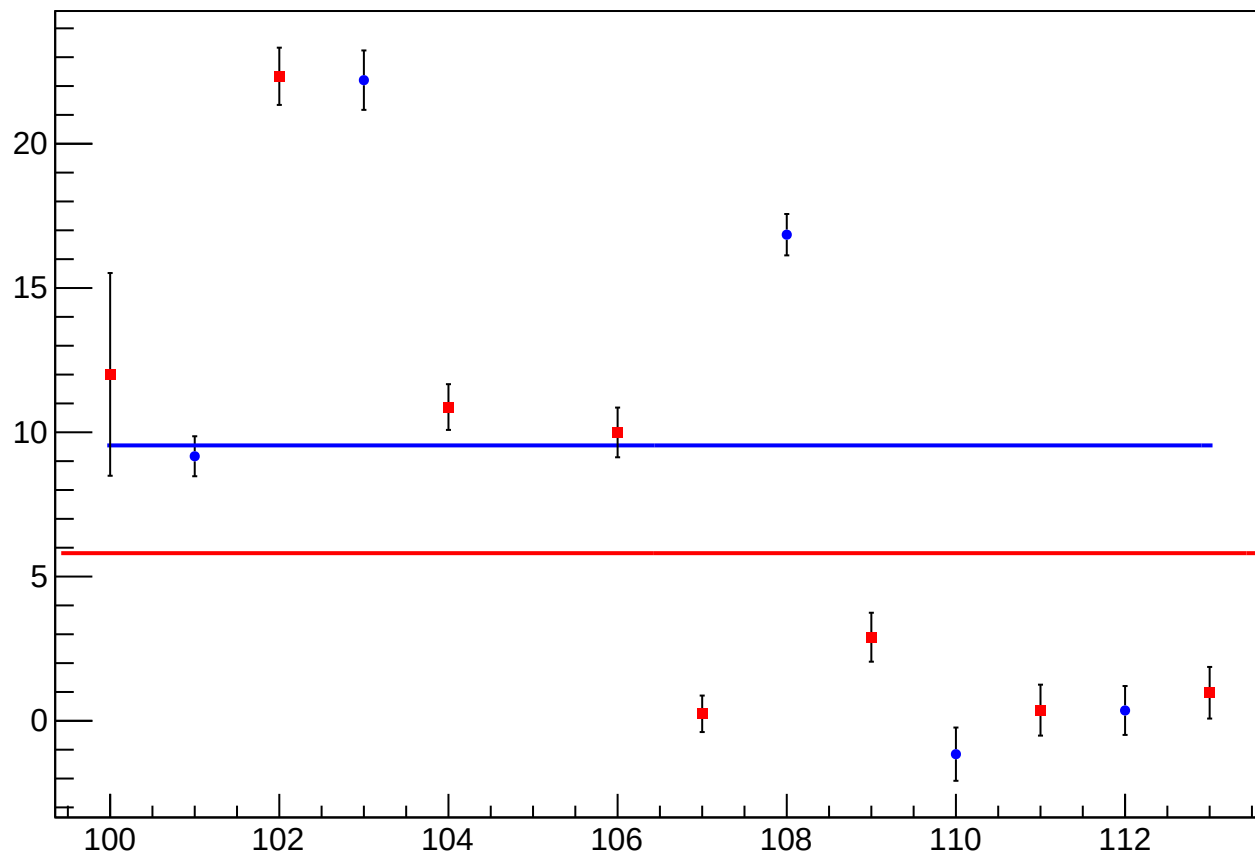
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-8.400 \pm 0.188$   $\chi^2/\text{NDF}$ : 608.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 9.545 $\pm$ 0.364  $\chi^2$ /NDF: 507.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.811 $\pm$ 0.309  $\chi^2$ /NDF: 501.6/7

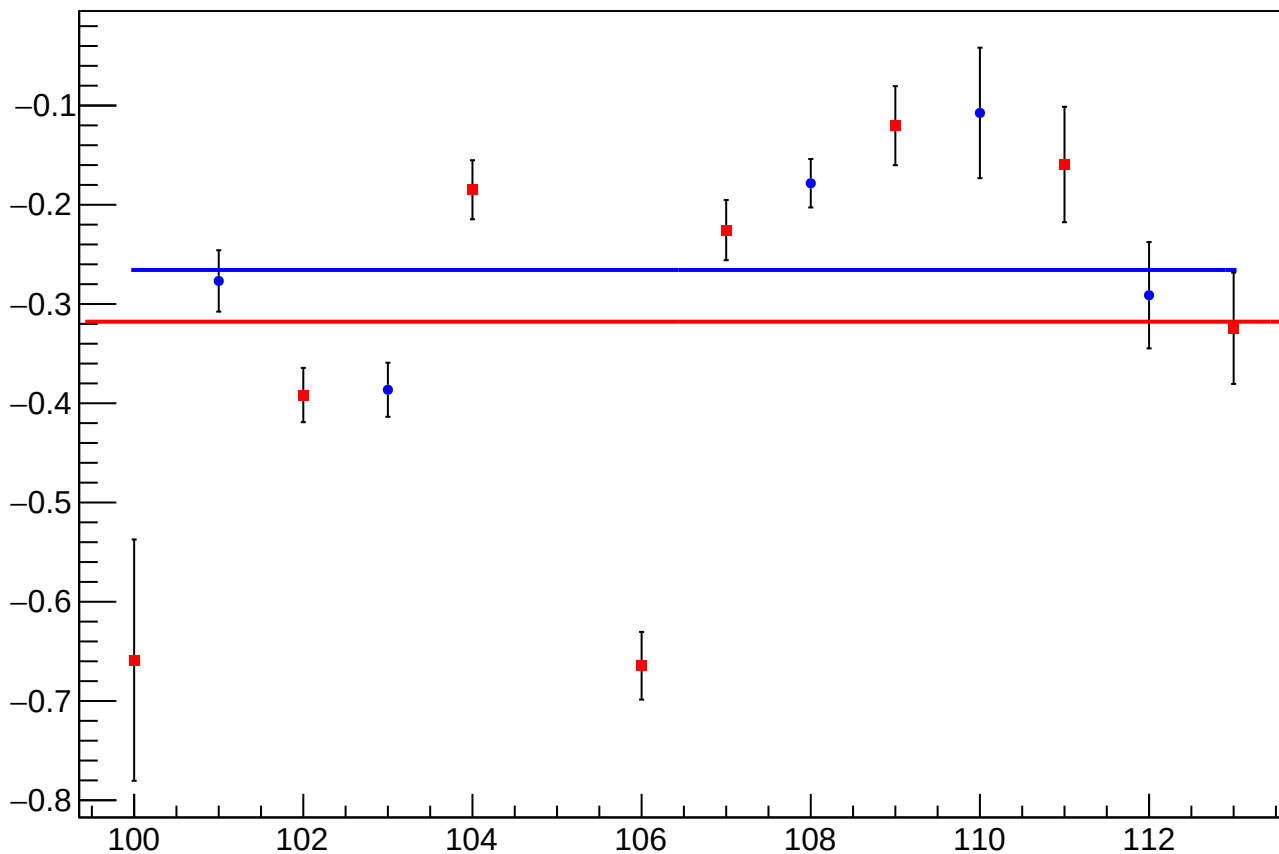
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.375 $\pm$ 0.236  $\chi^2$ /NDF: 1069.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.266 \pm 0.015$   $\chi^2/\text{NDF}$ : 38.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.318 \pm 0.013$   $\chi^2/\text{NDF}$ : 179.6/7

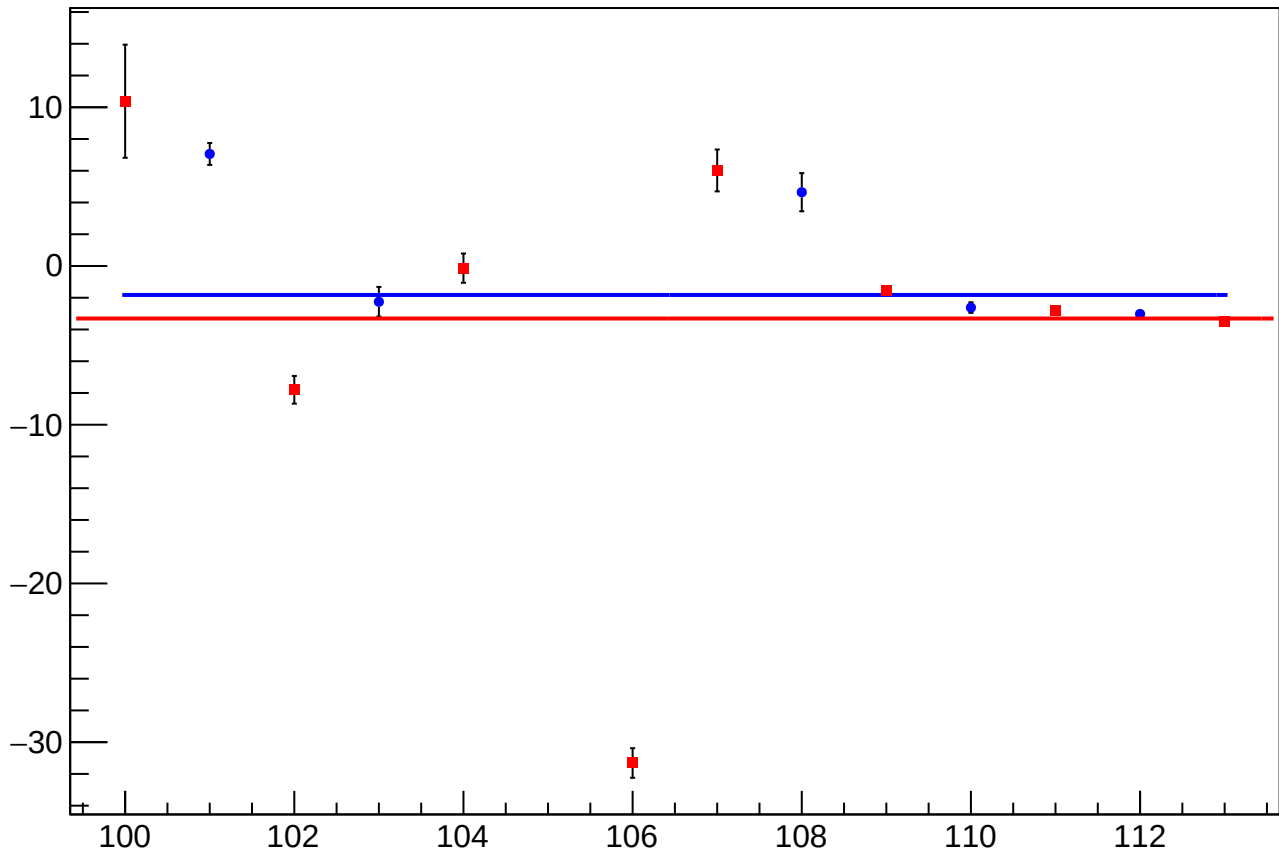
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.294 \pm 0.010$   $\chi^2/\text{NDF}$ : 225.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -1.824+/-0.197  $\chi^2/\text{NDF}$ : 218.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.310+/-0.159  $\chi^2/\text{NDF}$ : 1051.4/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

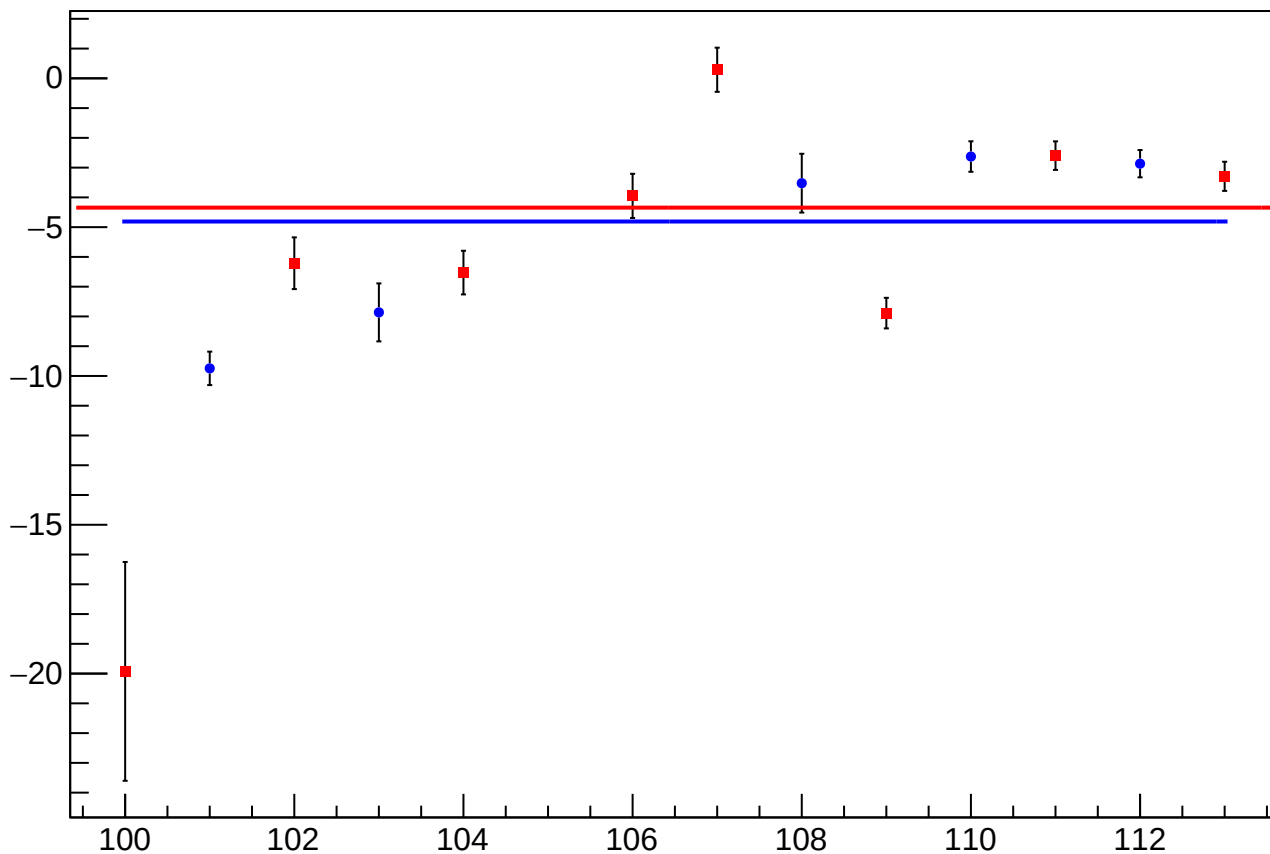
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.724+/-0.124  $\chi^2/\text{NDF}$ : 1304.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -4.810 $\pm$ 0.269  $\chi^2$ /NDF: 124.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4.344 $\pm$ 0.228  $\chi^2$ /NDF: 136.2/7

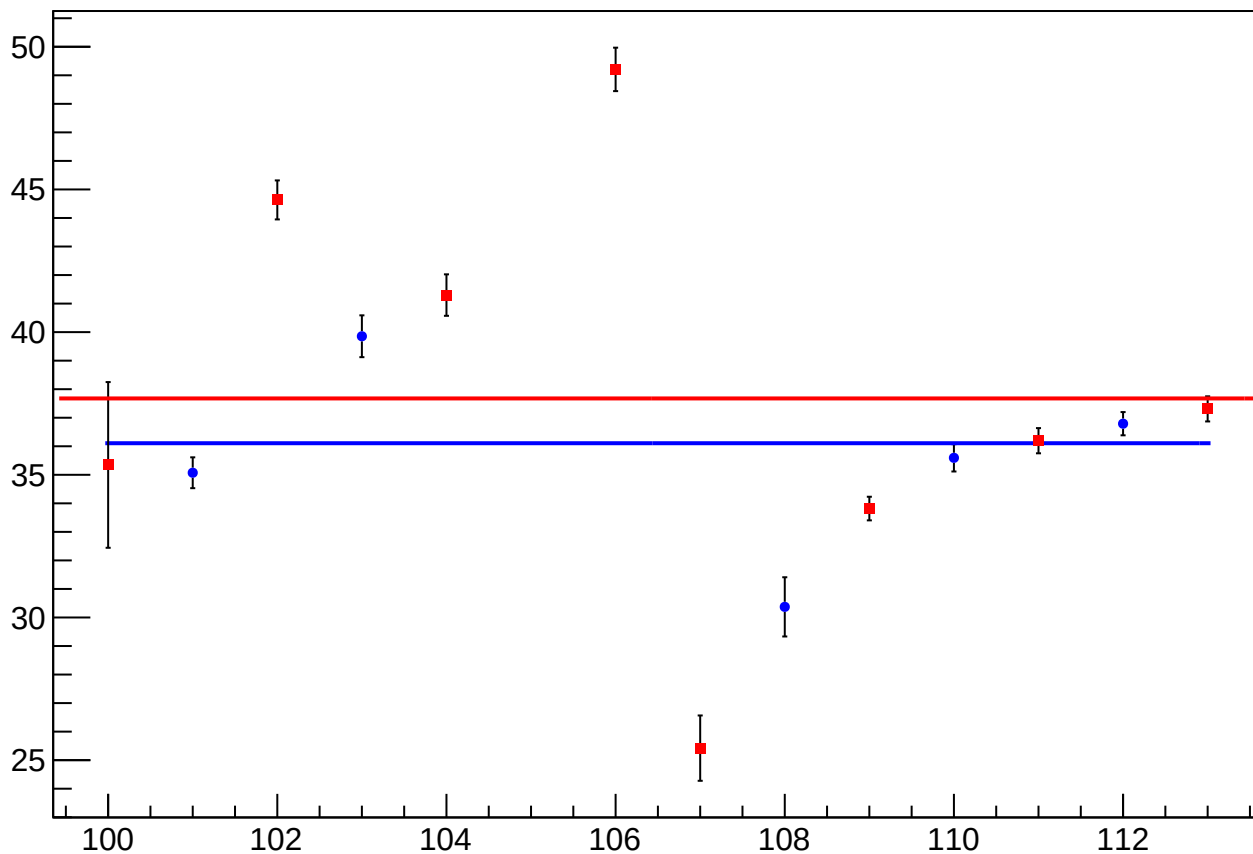
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -4.539 $\pm$ 0.174  $\chi^2$ /NDF: 262.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 36.107 $\pm$ 0.245  $\chi^2$ /NDF: 64.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 37.676 $\pm$ 0.210  $\chi^2$ /NDF: 572.0/7

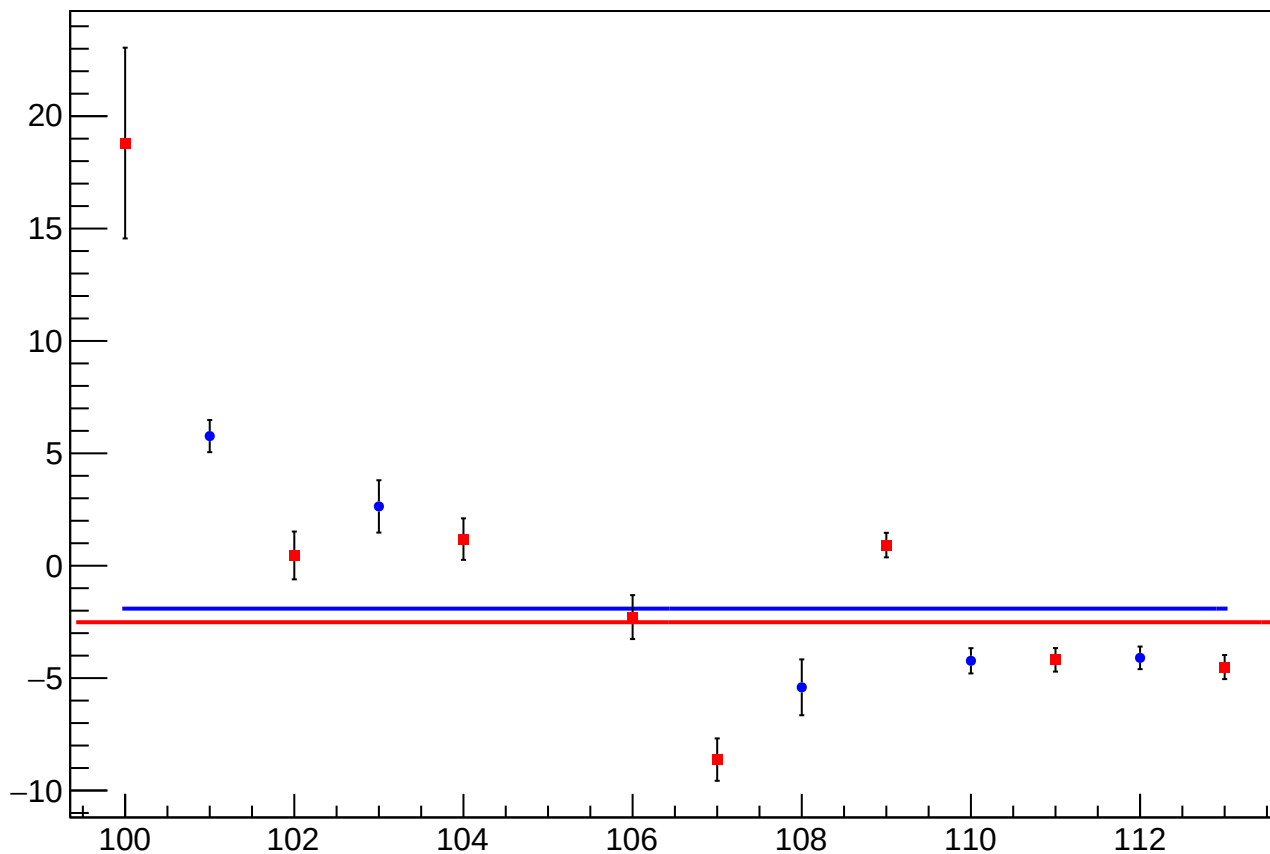
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.014 $\pm$ 0.159  $\chi^2$ /NDF: 660.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.909 \pm 0.309$   $\chi^2/\text{NDF}$ : 174.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.514 \pm 0.260$   $\chi^2/\text{NDF}$ : 154.7/7

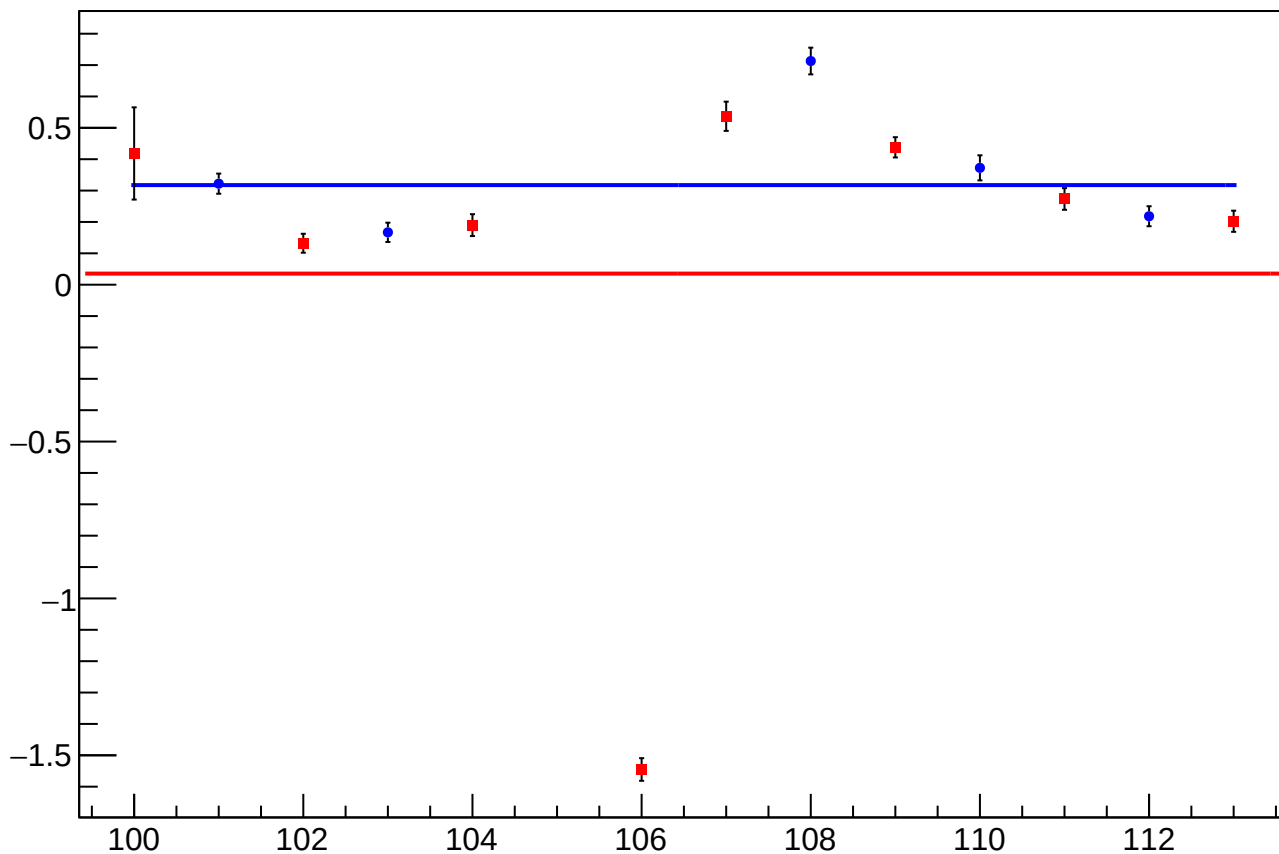
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.263 \pm 0.199$   $\chi^2/\text{NDF}$ : 331.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.317 $\pm$ 0.015  $\chi^2$ /NDF: 121.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.035 $\pm$ 0.013  $\chi^2$ /NDF: 2300.4/7

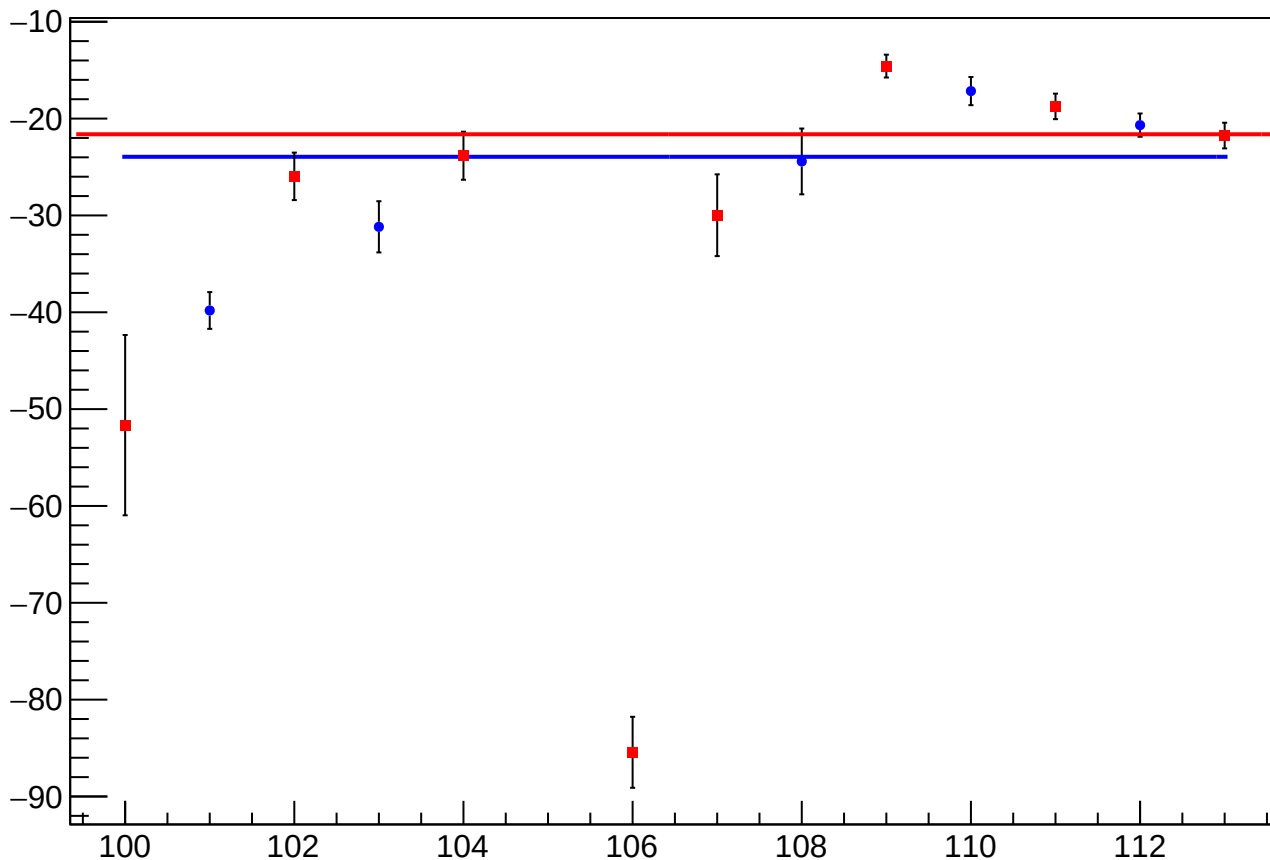
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.153 $\pm$ 0.010  $\chi^2$ /NDF: 2617.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -23.944 $\pm$ 0.773  $\chi^2$ /NDF: 106.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -21.618 $\pm$ 0.654  $\chi^2$ /NDF: 361.7/7

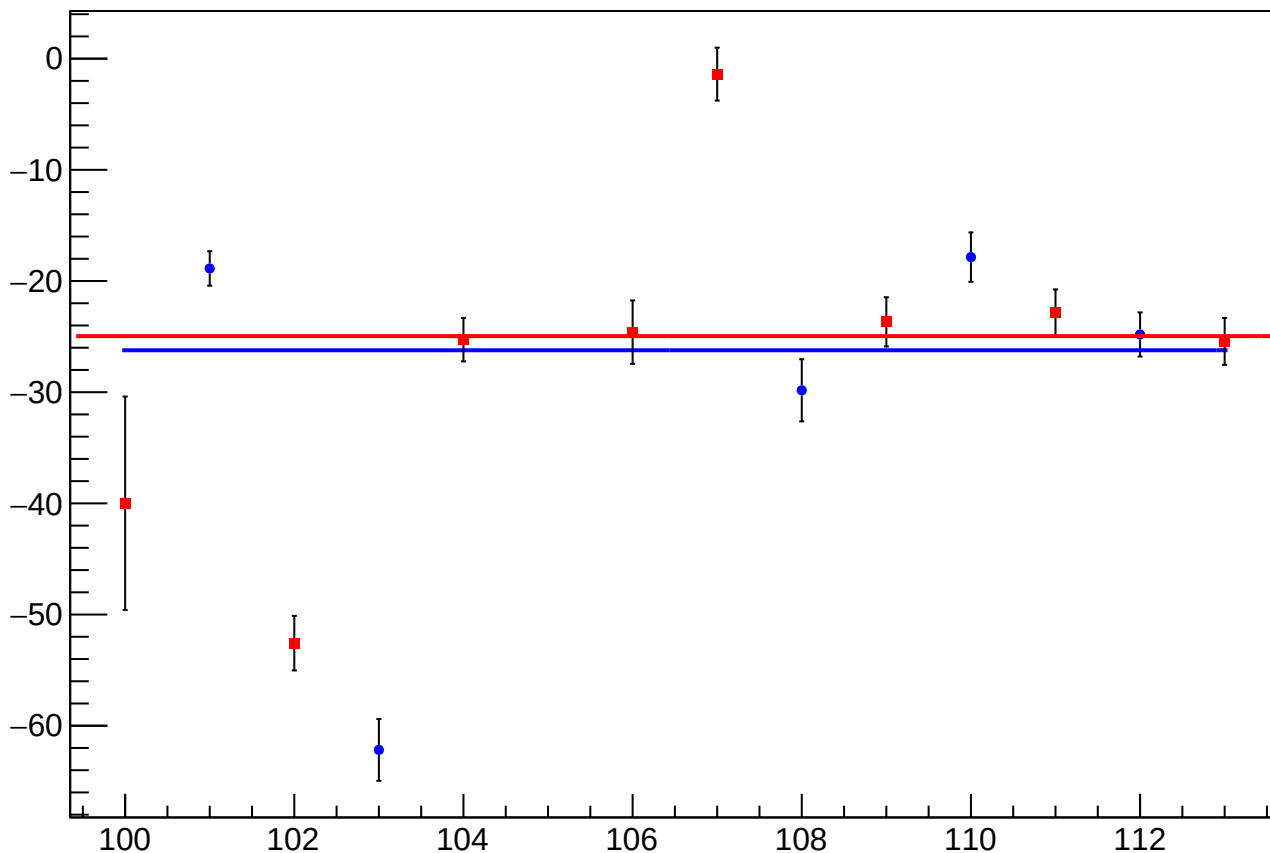
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -22.590 $\pm$ 0.499  $\chi^2$ /NDF: 473.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-26.228 \pm 0.941$   $\chi^2/\text{NDF}$ : 206.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-24.959 \pm 0.848$   $\chi^2/\text{NDF}$ : 228.7/7

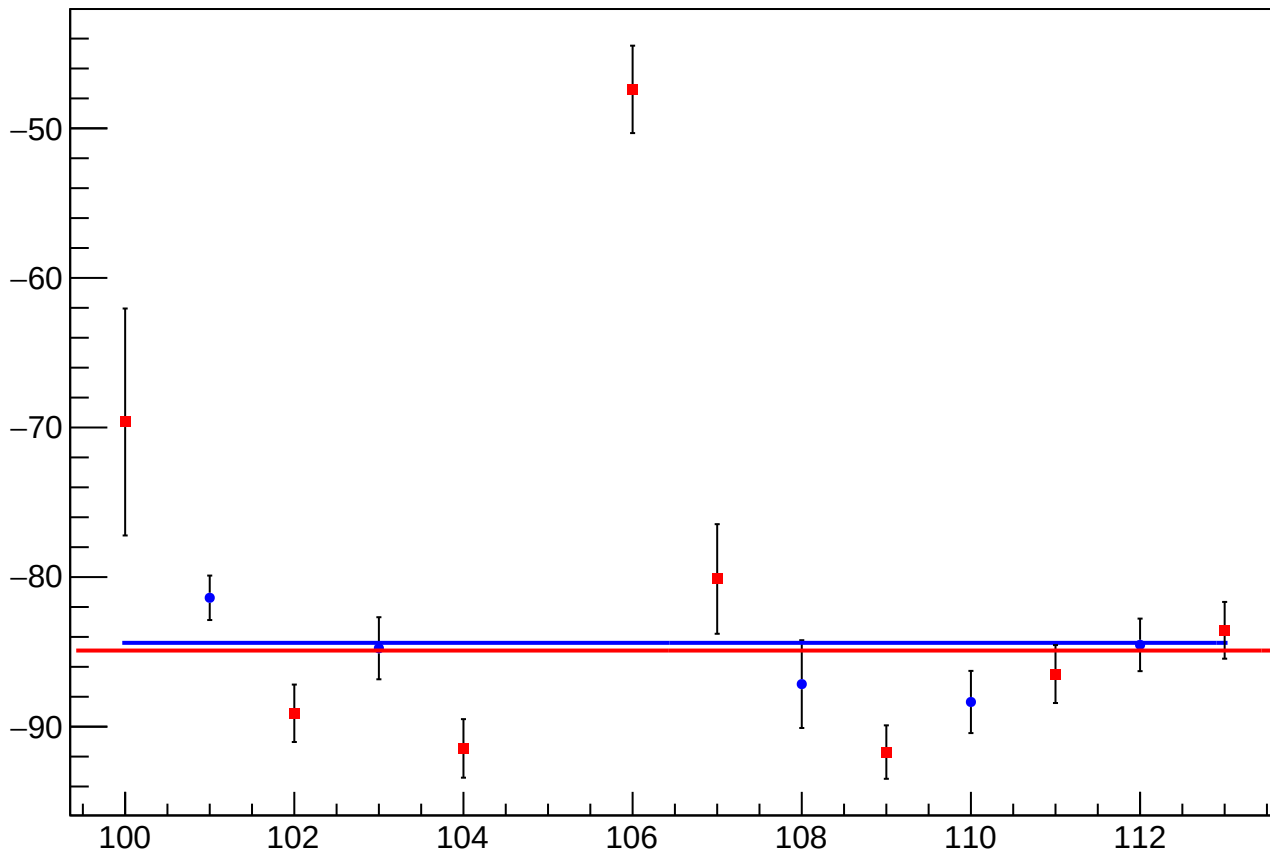
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-25.528 \pm 0.630$   $\chi^2/\text{NDF}$ : 436.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -84.396 $\pm$ 0.858  $\chi^2$ /NDF: 8.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -84.911 $\pm$ 0.791  $\chi^2$ /NDF: 202.1/7

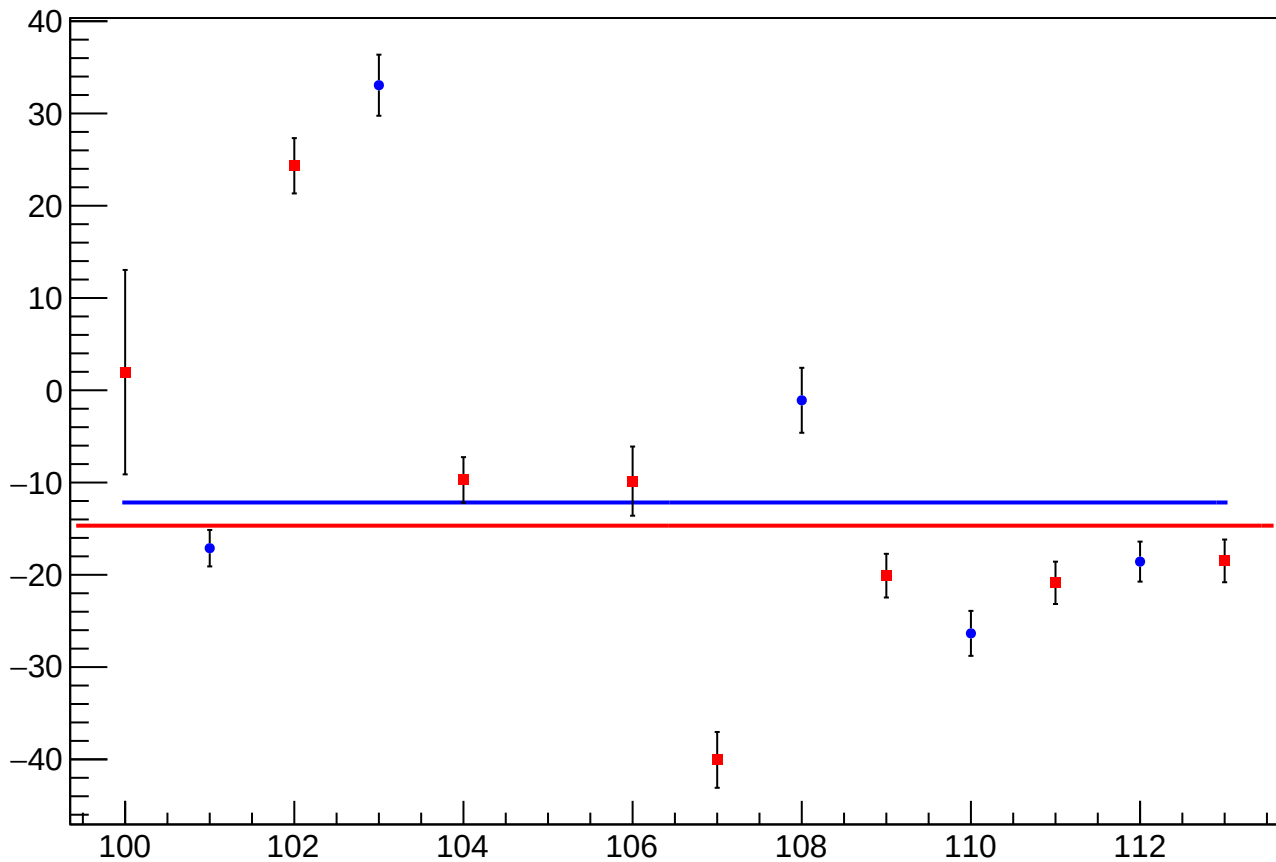
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -84.674 $\pm$ 0.582  $\chi^2$ /NDF: 211.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-12.161 \pm 1.112$   $\chi^2/\text{NDF}$ : 245.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-14.673 \pm 0.991$   $\chi^2/\text{NDF}$ : 262.9/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

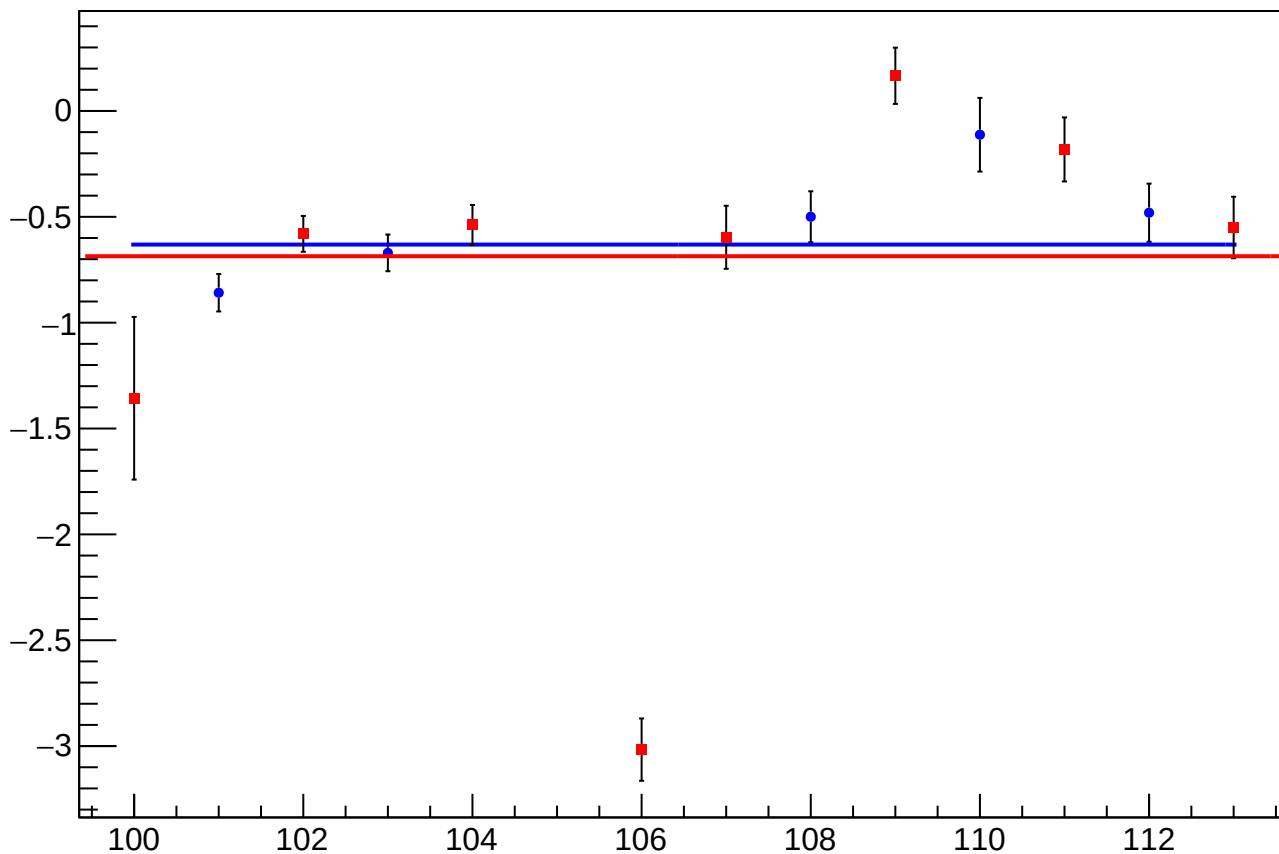
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-13.561 \pm 0.740$   $\chi^2/\text{NDF}$ : 511.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_24\_68\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.631 \pm 0.049$   $\chi^2/\text{NDF}$ : 18.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.686 \pm 0.045$   $\chi^2/\text{NDF}$ : 311.1/7

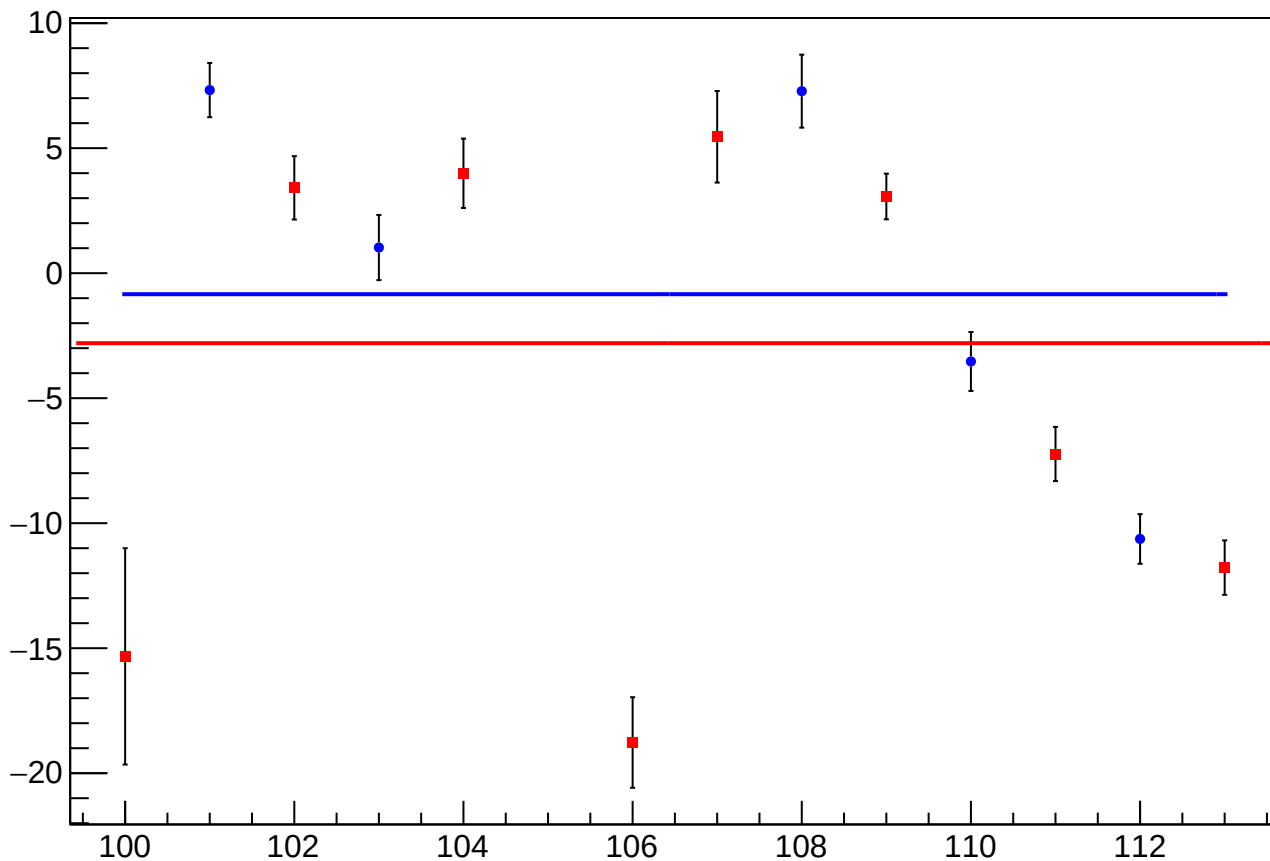
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.661 \pm 0.033$   $\chi^2/\text{NDF}$ : 329.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-0.841 \pm 0.524$   $\chi^2/\text{NDF}$ : 192.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.799 \pm 0.462$   $\chi^2/\text{NDF}$ : 280.6/7

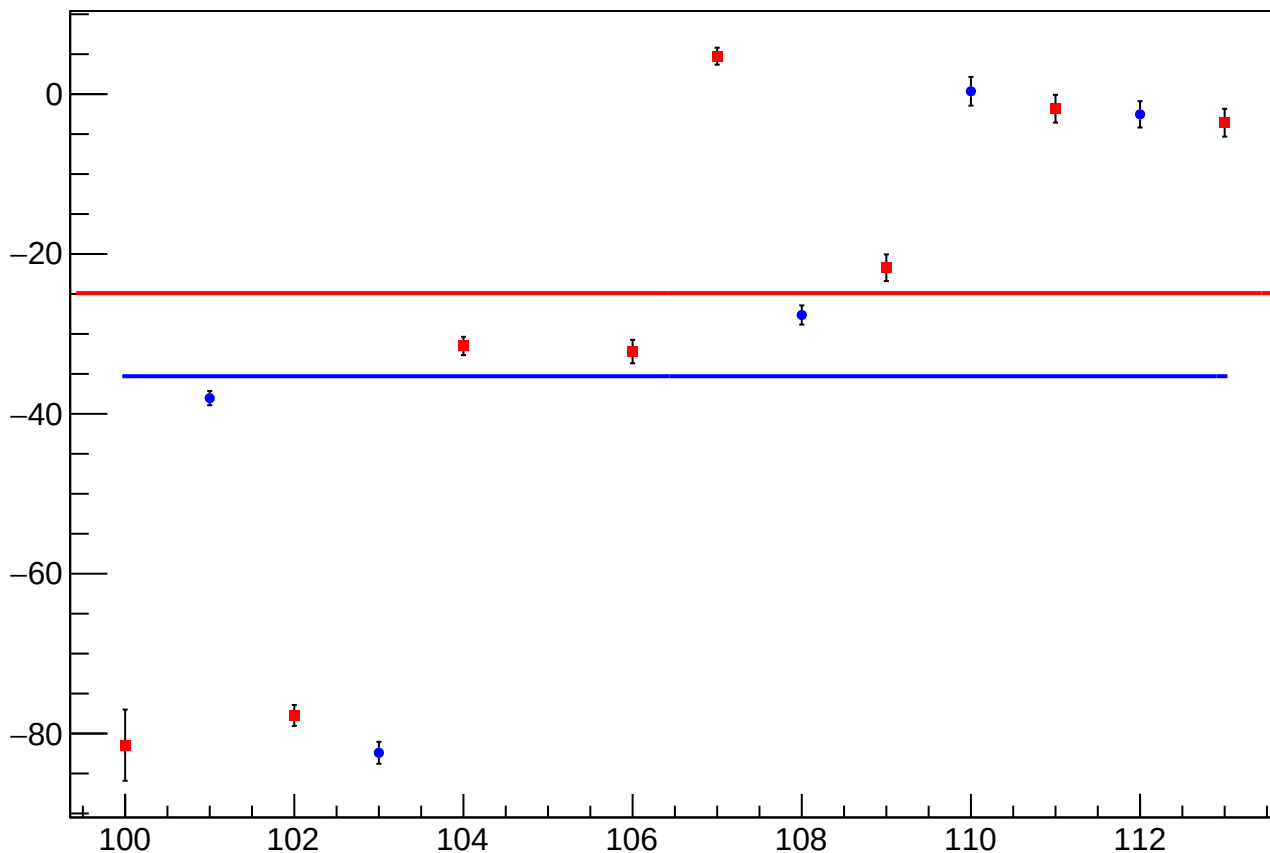
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.944 \pm 0.346$   $\chi^2/\text{NDF}$ : 480.5/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-35.294 \pm 0.563$   $\chi^2/\text{NDF}$ : 2009.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-24.893 \pm 0.515$   $\chi^2/\text{NDF}$ : 2959.3/7

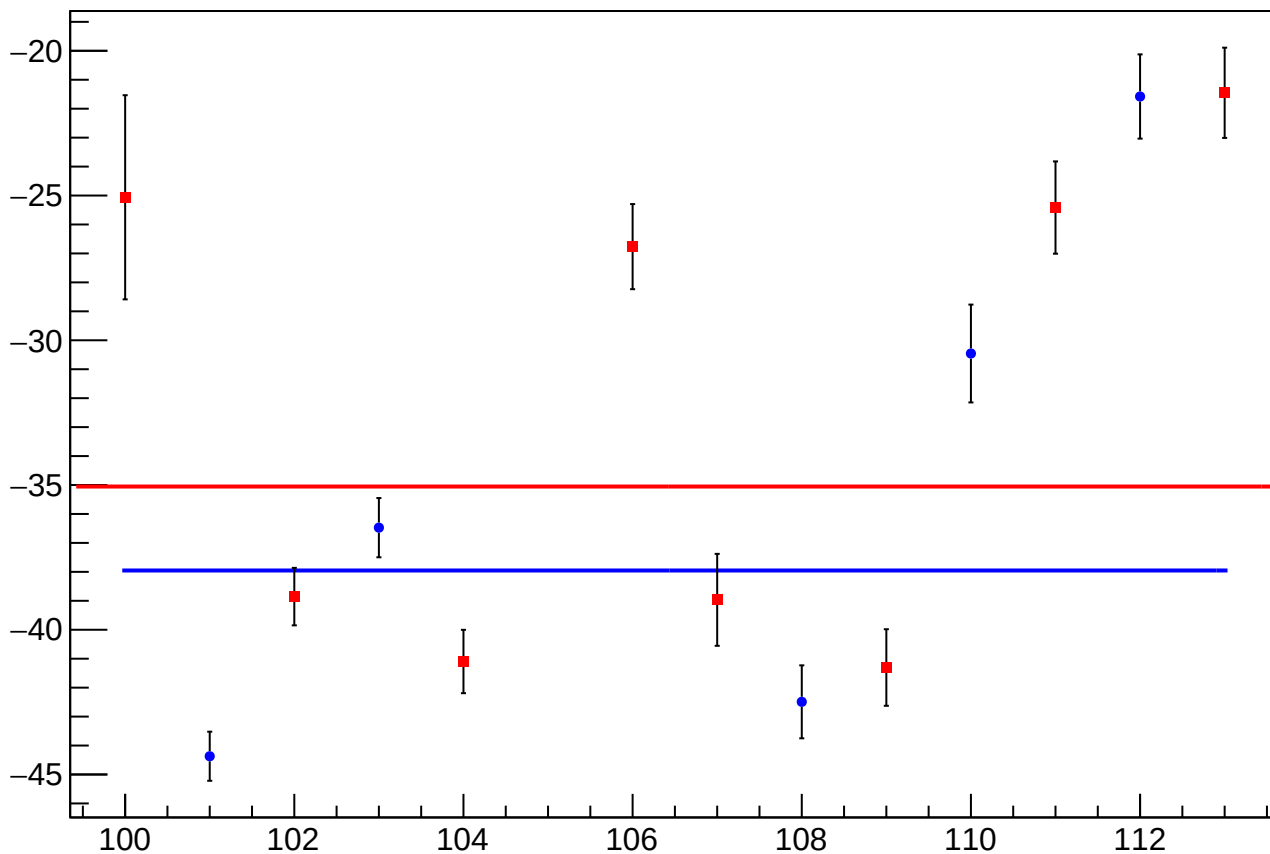
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-29.634 \pm 0.380$   $\chi^2/\text{NDF}$ : 5155.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-37.953 \pm 0.513$   $\chi^2/\text{NDF}$ : 218.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-35.052 \pm 0.490$   $\chi^2/\text{NDF}$ : 226.1/7

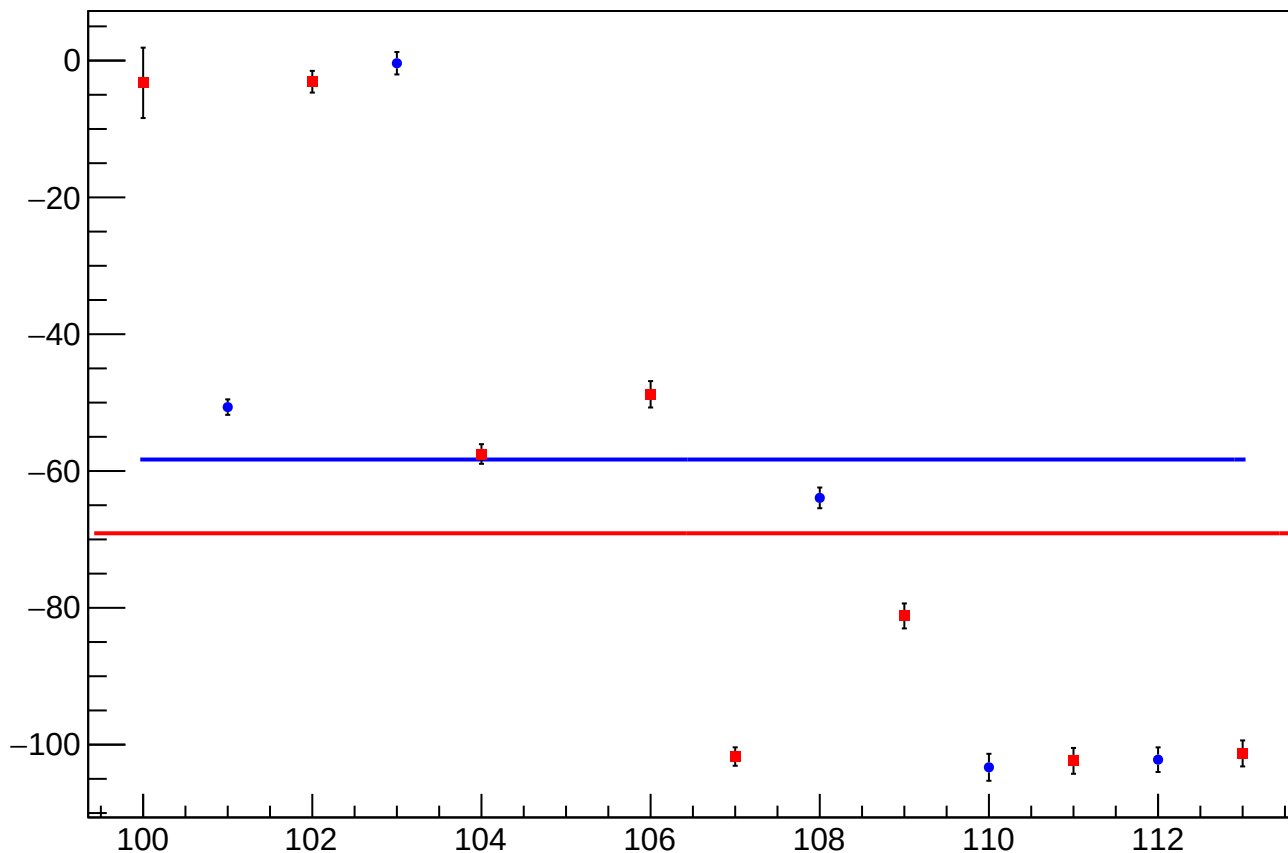
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-36.435 \pm 0.354$   $\chi^2/\text{NDF}$ : 461.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -58.318 $\pm$ 0.681  $\chi^2$ /NDF: 2424.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -69.102 $\pm$ 0.621  $\chi^2$ /NDF: 3296.3/7

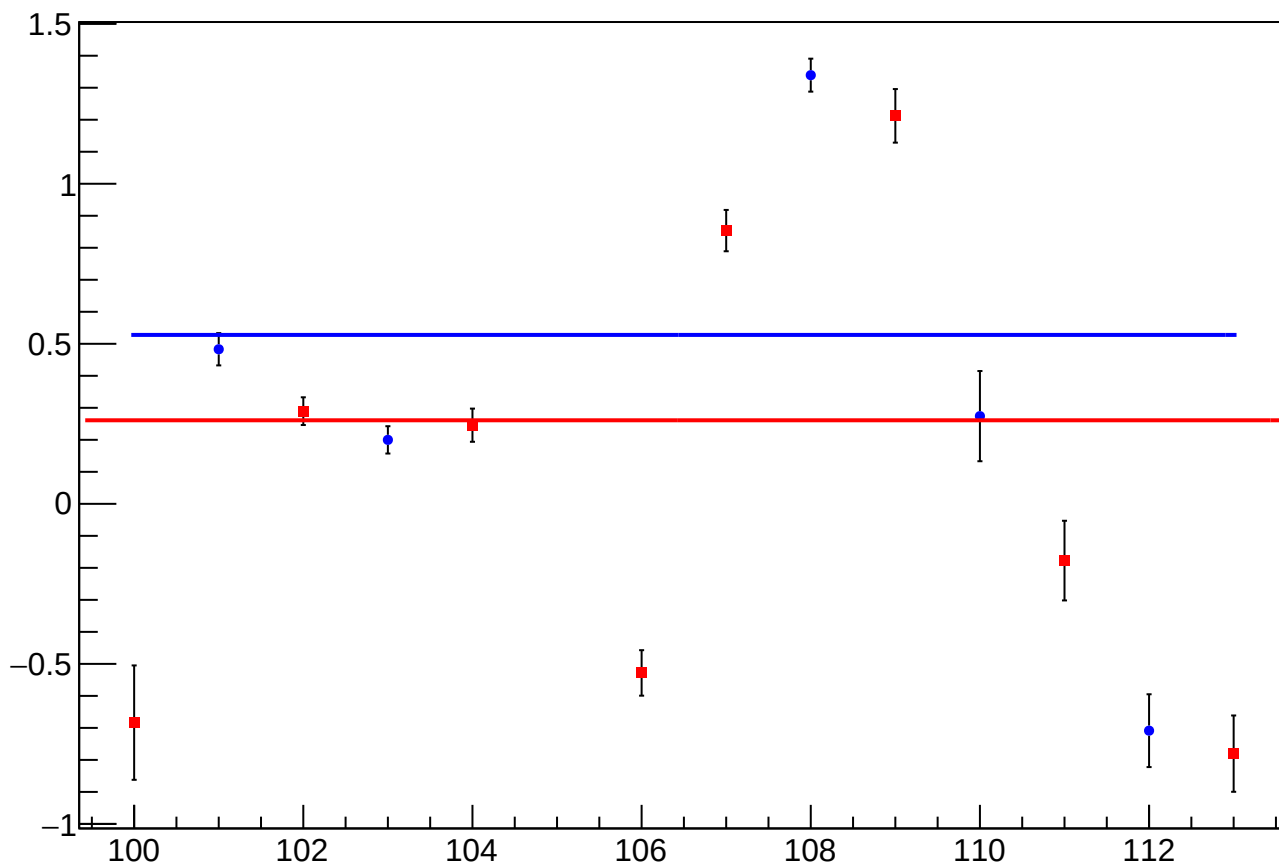
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -64.209 $\pm$ 0.459  $\chi^2$ /NDF: 5857.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.528 $\pm$ 0.026  $\chi^2$ /NDF: 429.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.261 $\pm$ 0.025  $\chi^2$ /NDF: 454.0/7

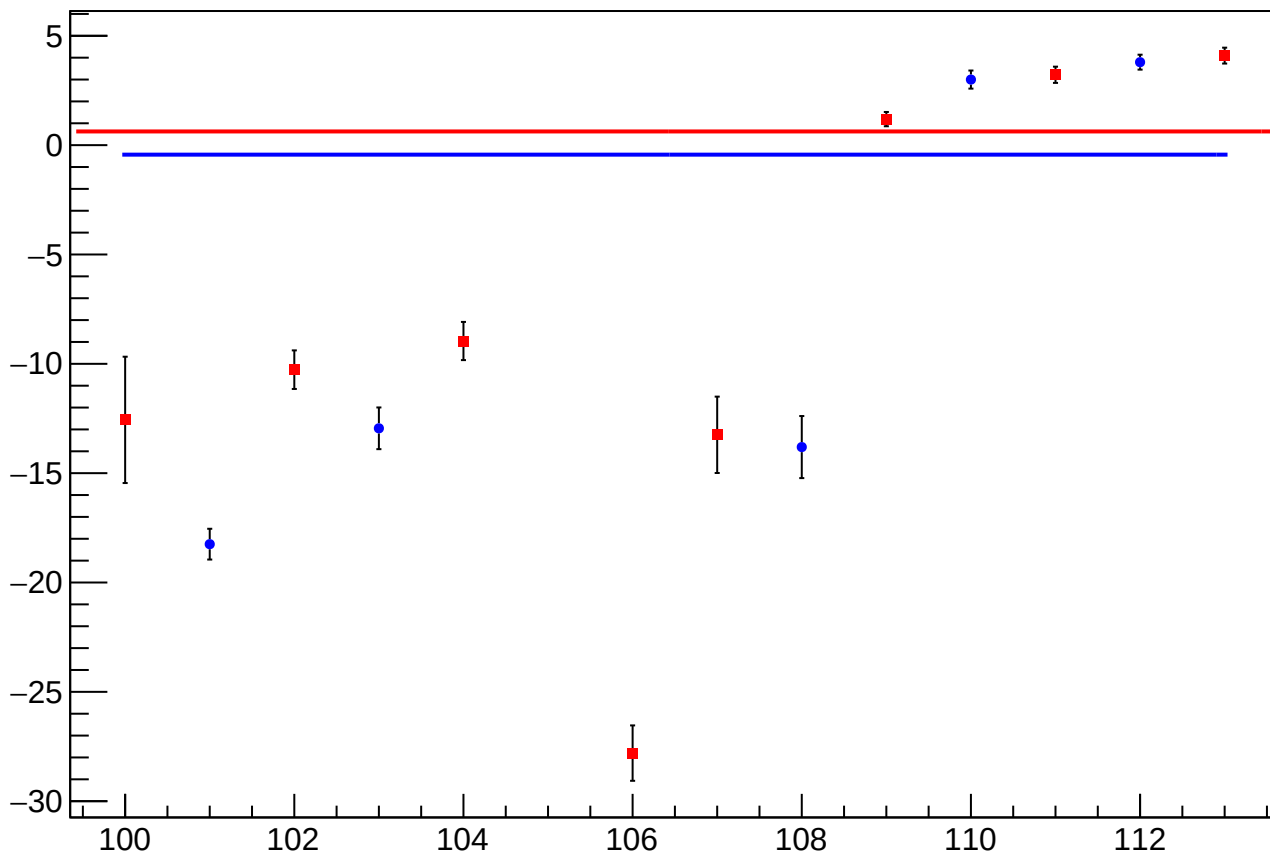
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.386 $\pm$ 0.018  $\chi^2$ /NDF: 938.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -0.435+/-0.235  $\chi^2/\text{NDF}$ : 1124.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.627+/-0.189  $\chi^2/\text{NDF}$ : 1003.9/7

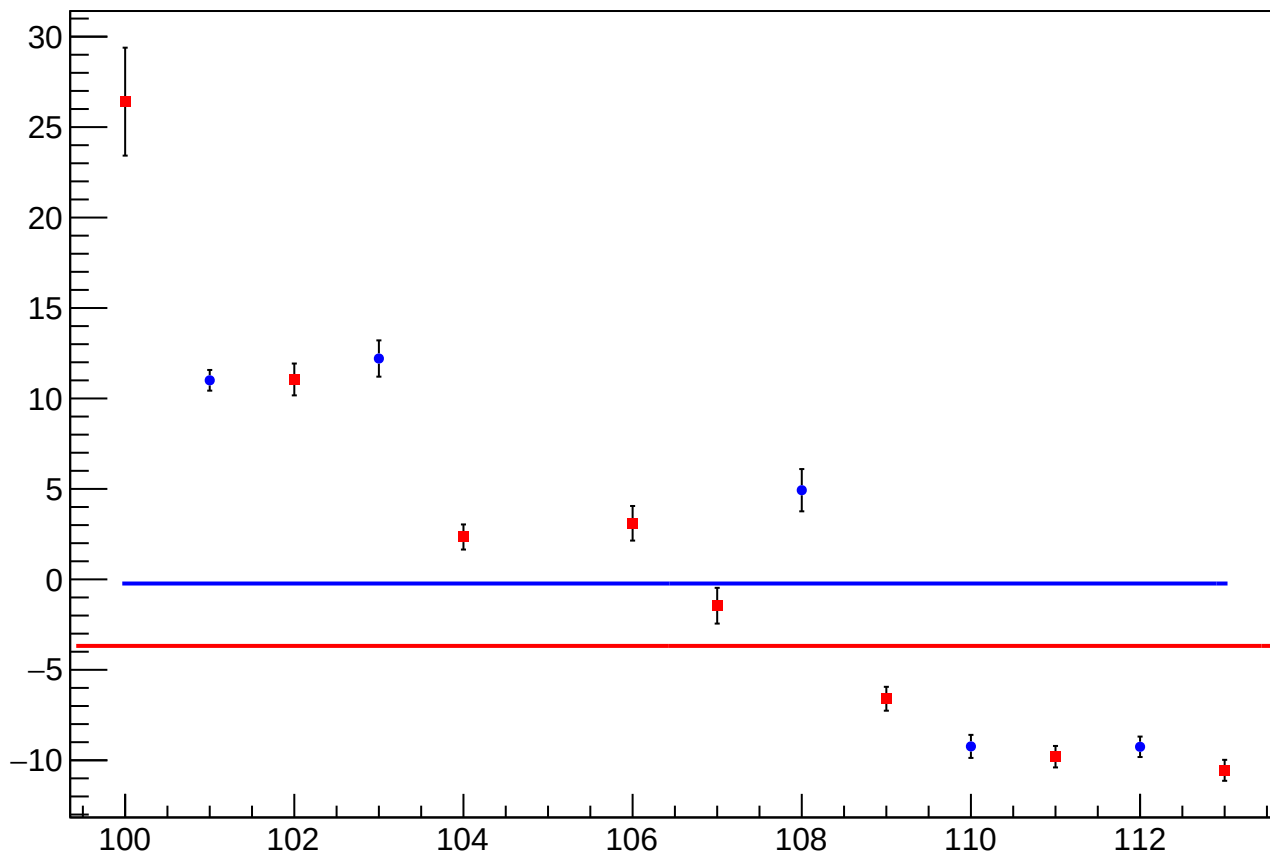
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.210+/-0.148  $\chi^2/\text{NDF}$ : 2140.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.229 \pm 0.310$   $\chi^2/\text{NDF}$ : 1014.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-3.678 \pm 0.270$   $\chi^2/\text{NDF}$ : 779.1/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

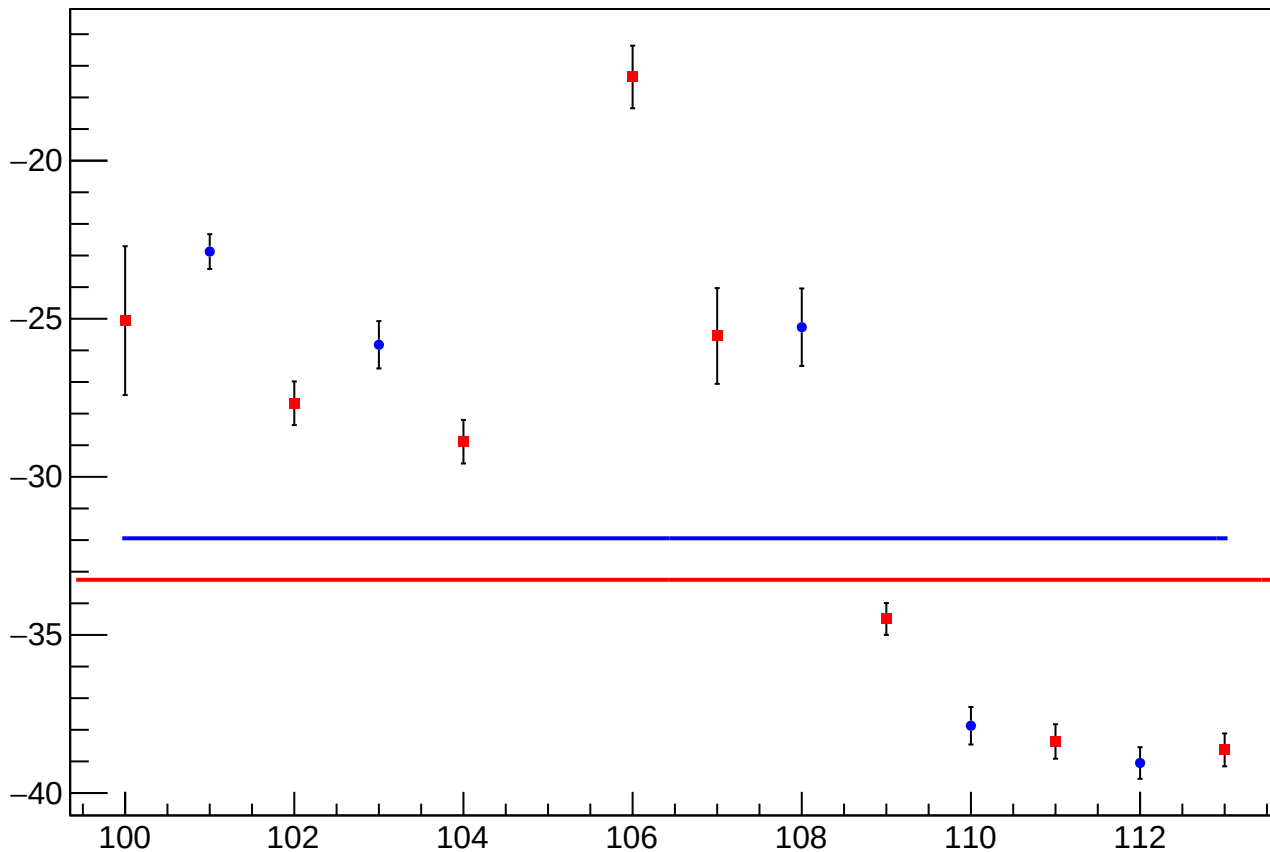
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.192 \pm 0.204$   $\chi^2/\text{NDF}$ : 1863.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_1548\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -31.943 $\pm$ 0.282  $\chi^2$ /NDF: 670.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -33.256 $\pm$ 0.244  $\chi^2$ /NDF: 602.4/7

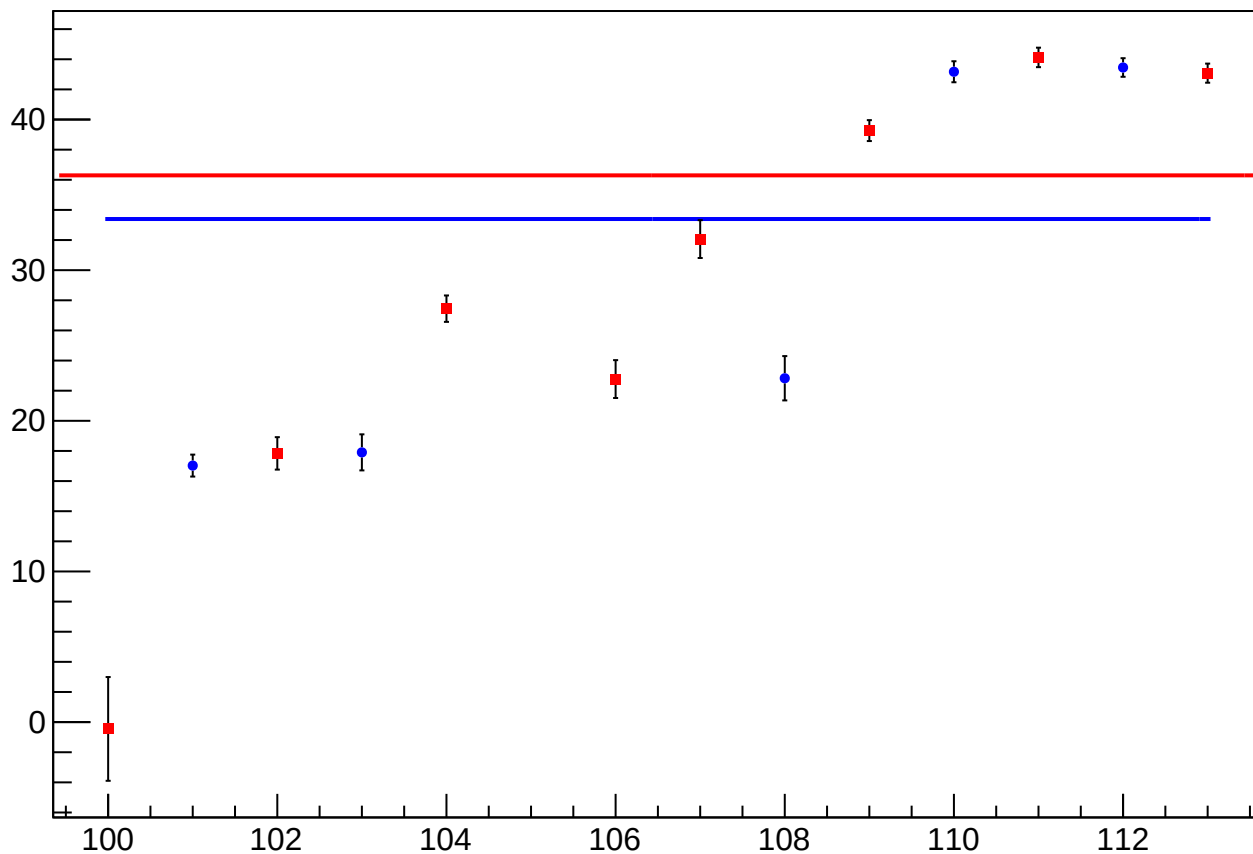
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -32.694 $\pm$ 0.184  $\chi^2$ /NDF: 1285.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 33.396 $\pm$ 0.360  $\chi^2$ /NDF: 1186.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.294 $\pm$ 0.309  $\chi^2$ /NDF: 916.0/7

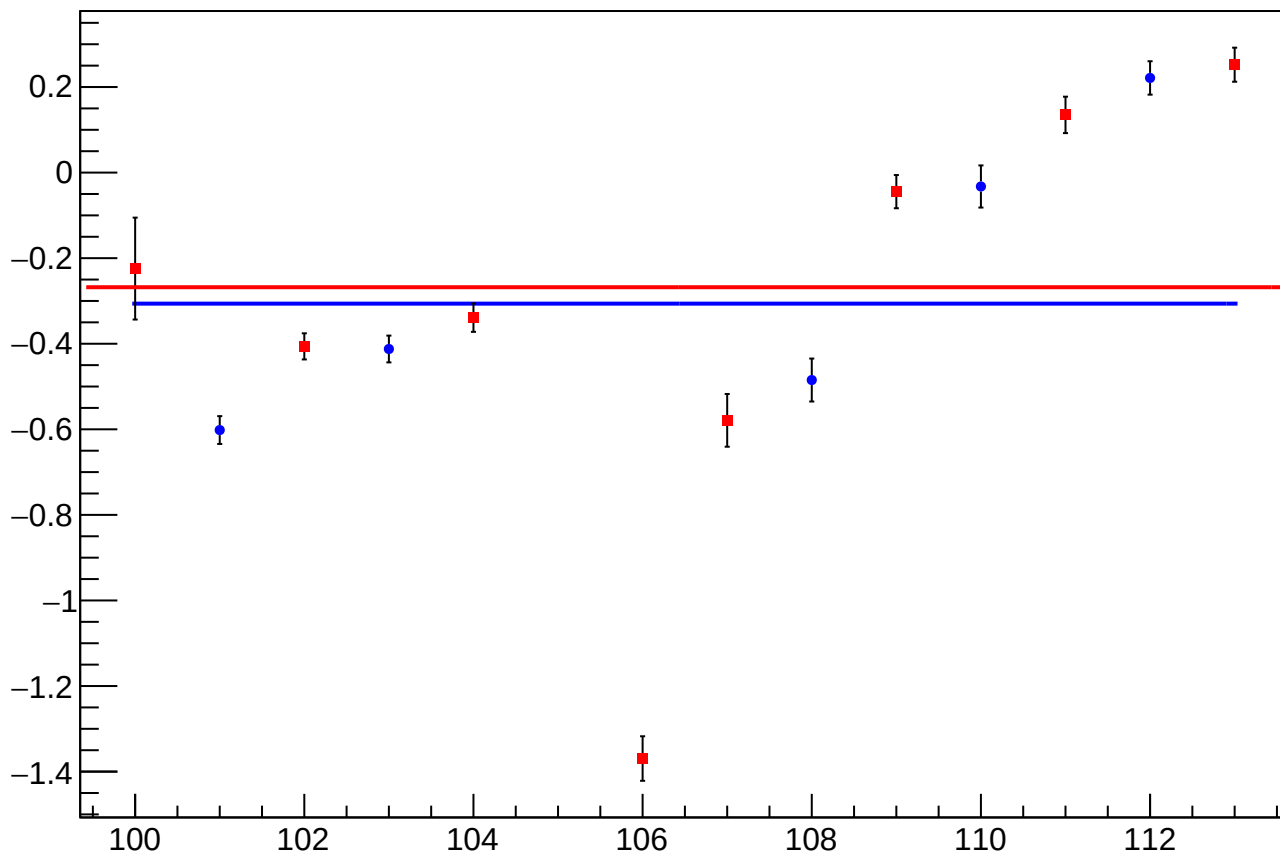
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 35.063 $\pm$ 0.234  $\chi^2$ /NDF: 2139.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.306 \pm 0.017$   $\chi^2/\text{NDF}$ : 320.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.268 \pm 0.015$   $\chi^2/\text{NDF}$ : 792.2/7

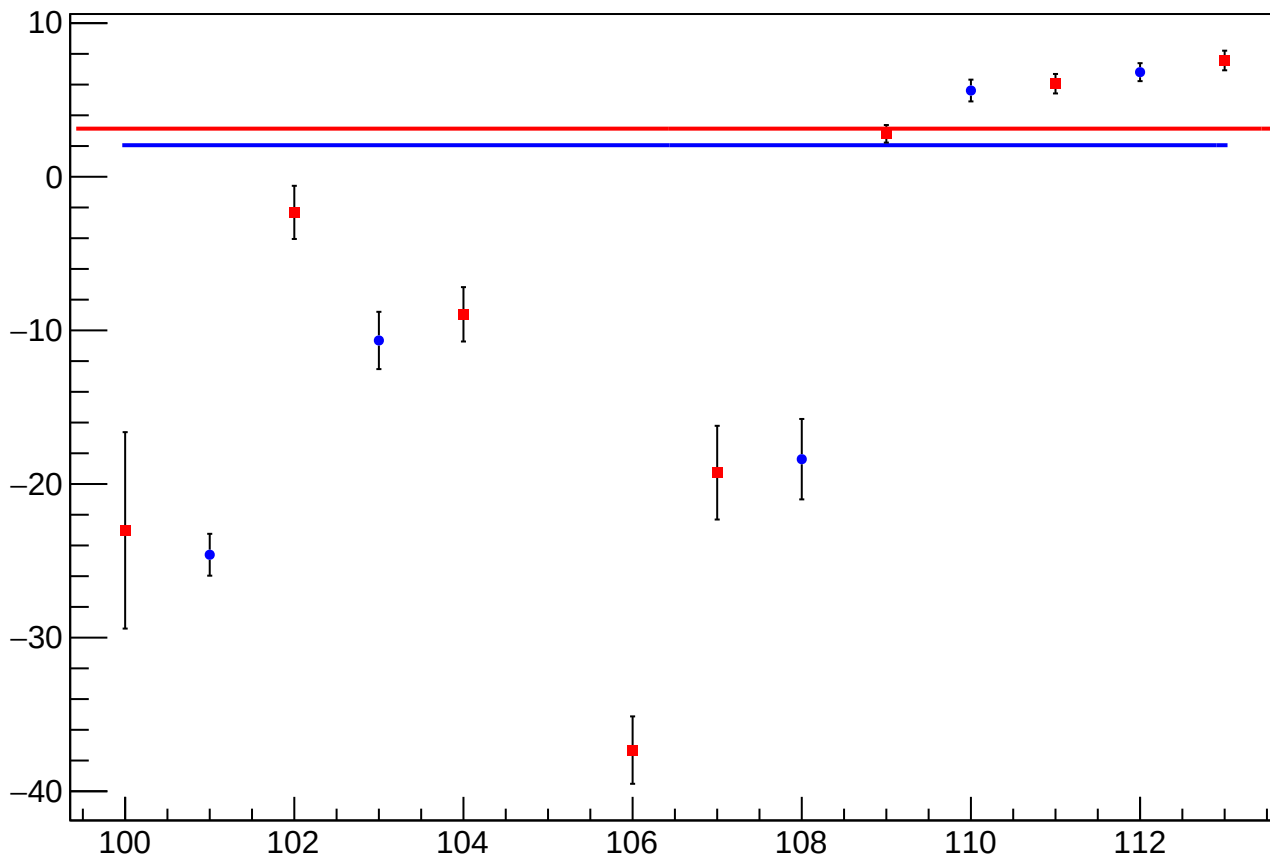
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.284 \pm 0.011$   $\chi^2/\text{NDF}$ : 1115.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 2.054+/-0.412  $\chi^2/\text{NDF}$ : 581.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.132+/-0.333  $\chi^2/\text{NDF}$ : 537.1/7

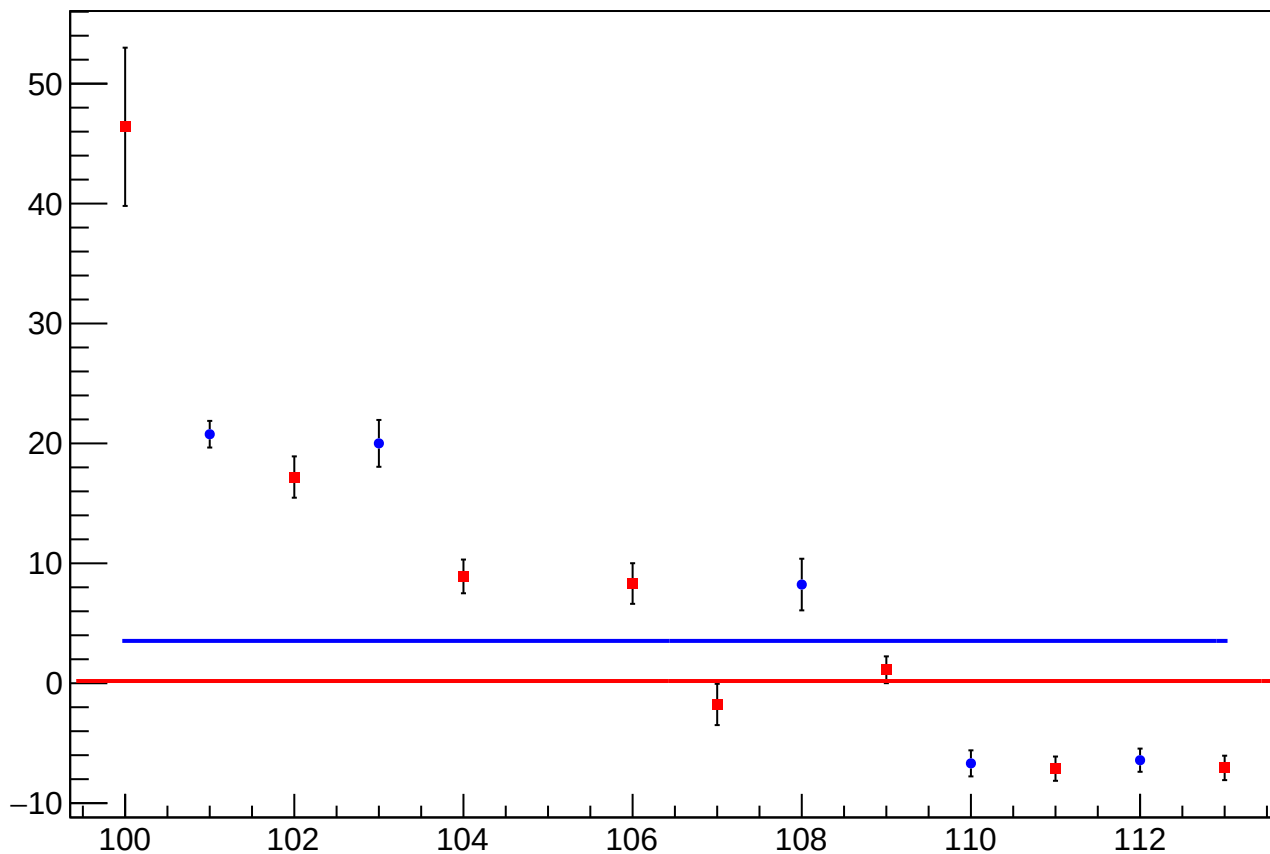
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.706+/-0.259  $\chi^2/\text{NDF}$ : 1122.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 3.531 $\pm$ 0.559  $\chi^2$ /NDF: 510.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.186 $\pm$ 0.483  $\chi^2$ /NDF: 312.8/7

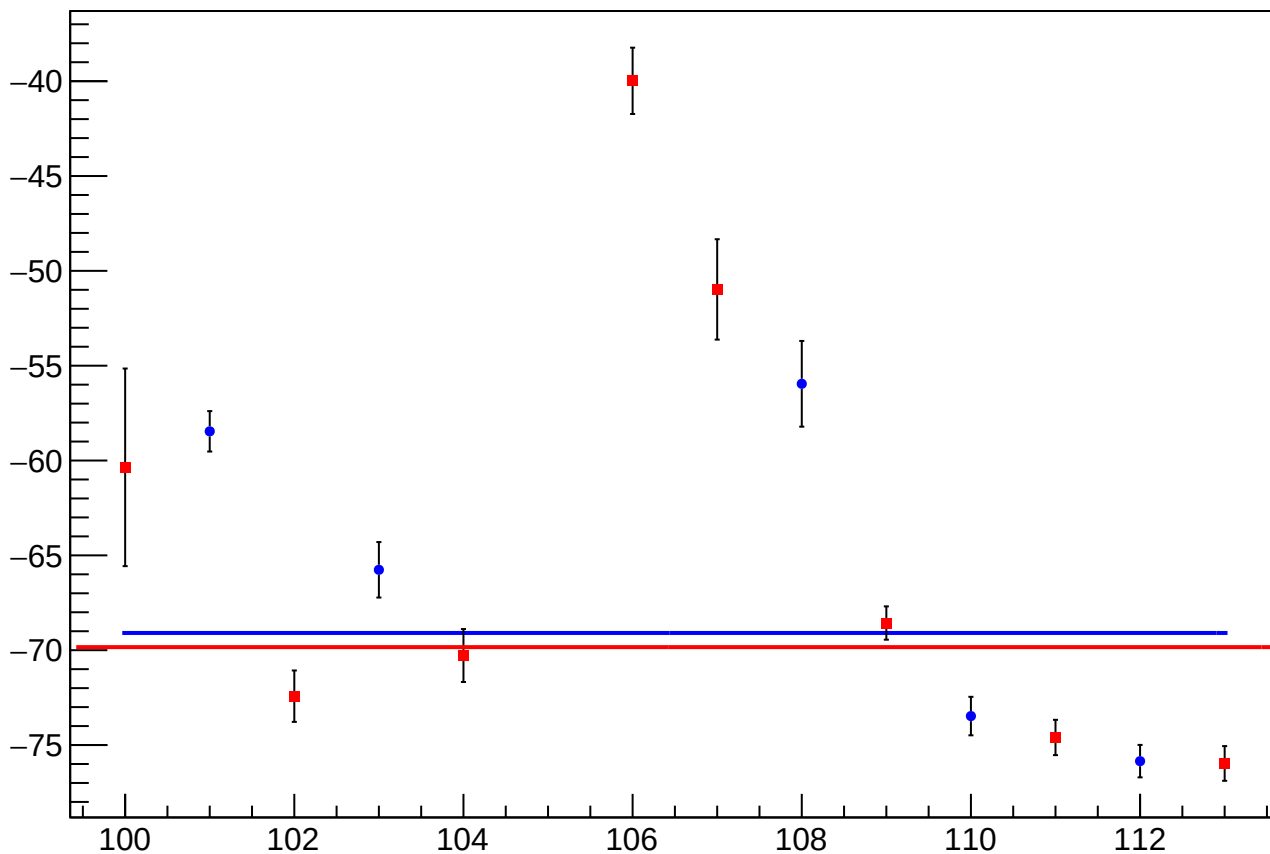
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.615 $\pm$ 0.365  $\chi^2$ /NDF: 844.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-69.092 \pm 0.508$   $\chi^2/\text{NDF}$ : 219.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-69.839 \pm 0.438$   $\chi^2/\text{NDF}$ : 422.7/7

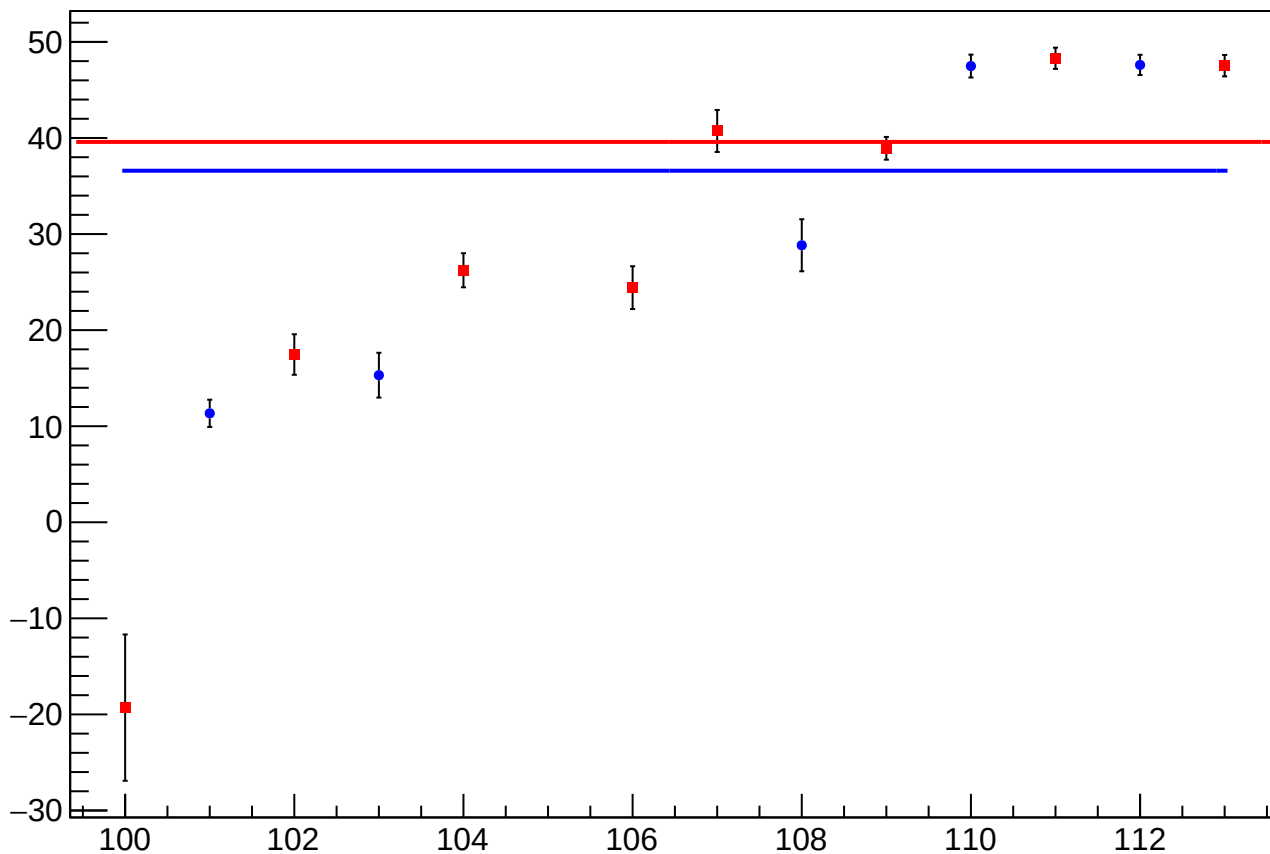
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-69.520 \pm 0.332$   $\chi^2/\text{NDF}$ : 643.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 36.593 $\pm$ 0.643  $\chi^2$ /NDF: 601.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 39.591 $\pm$ 0.549  $\chi^2$ /NDF: 386.5/7

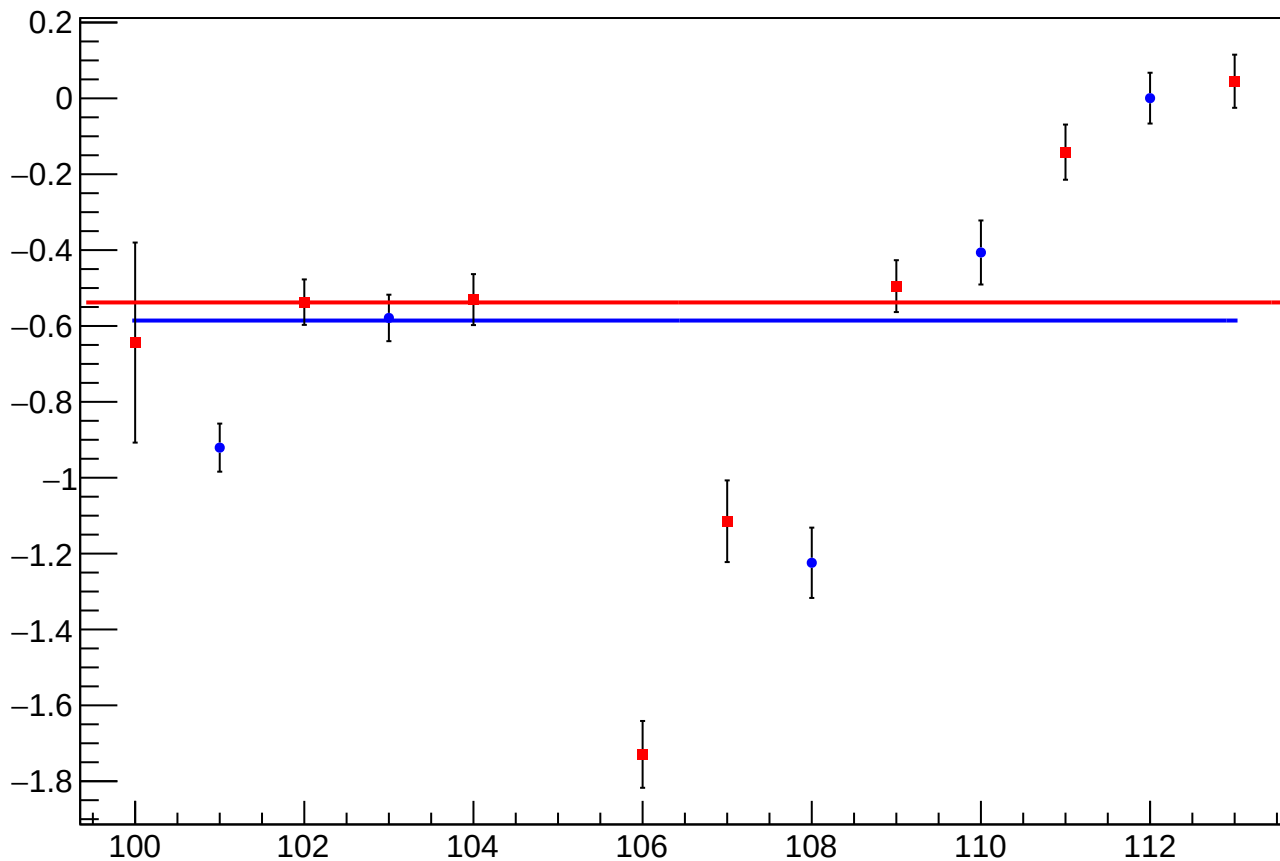
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 38.326 $\pm$ 0.418  $\chi^2$ /NDF: 1000.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.586 \pm 0.032$   $\chi^2/\text{NDF}$ : 156.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.538 \pm 0.027$   $\chi^2/\text{NDF}$ : 311.2/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

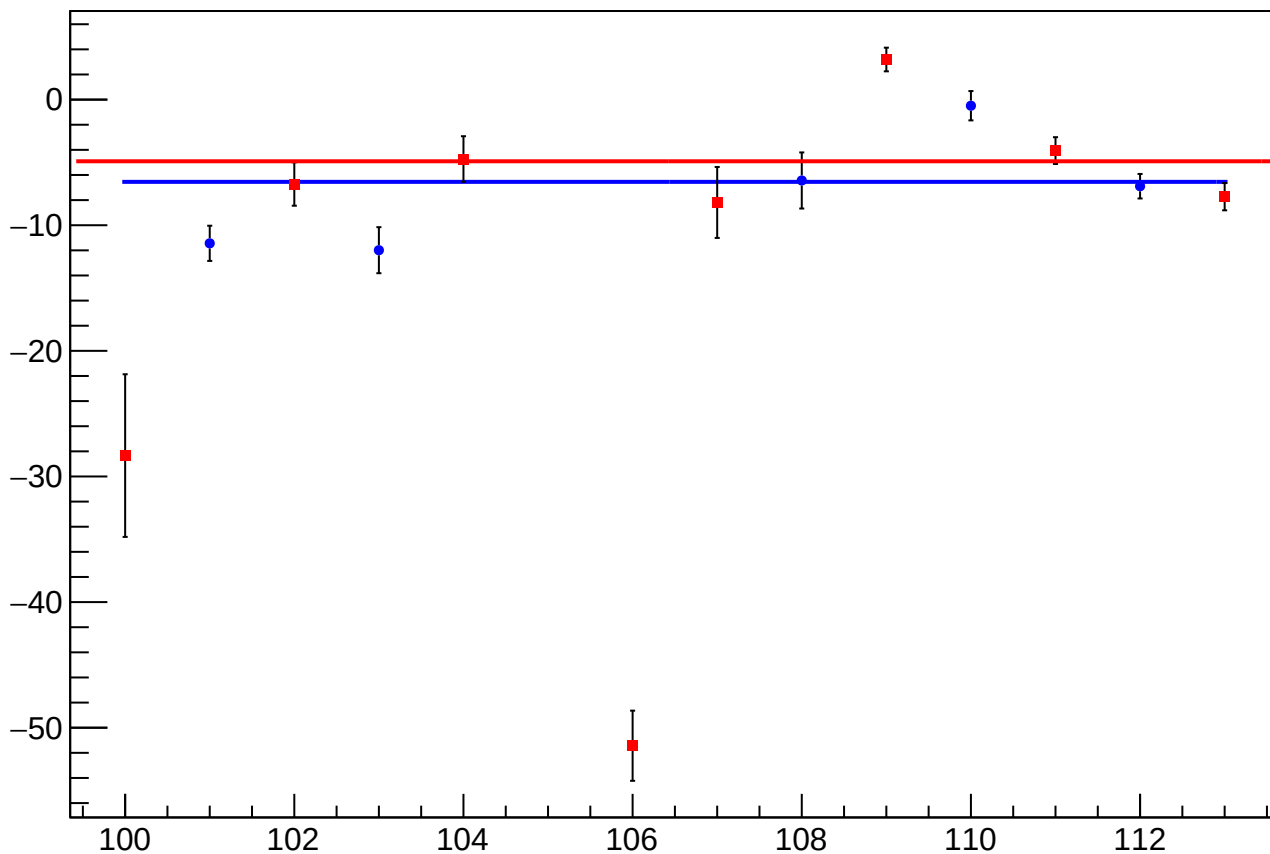
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.558 \pm 0.021$   $\chi^2/\text{NDF}$ : 469.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-6.547 \pm 0.598$   $\chi^2/\text{NDF}$ : 48.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.909 \pm 0.515$   $\chi^2/\text{NDF}$ : 374.6/7

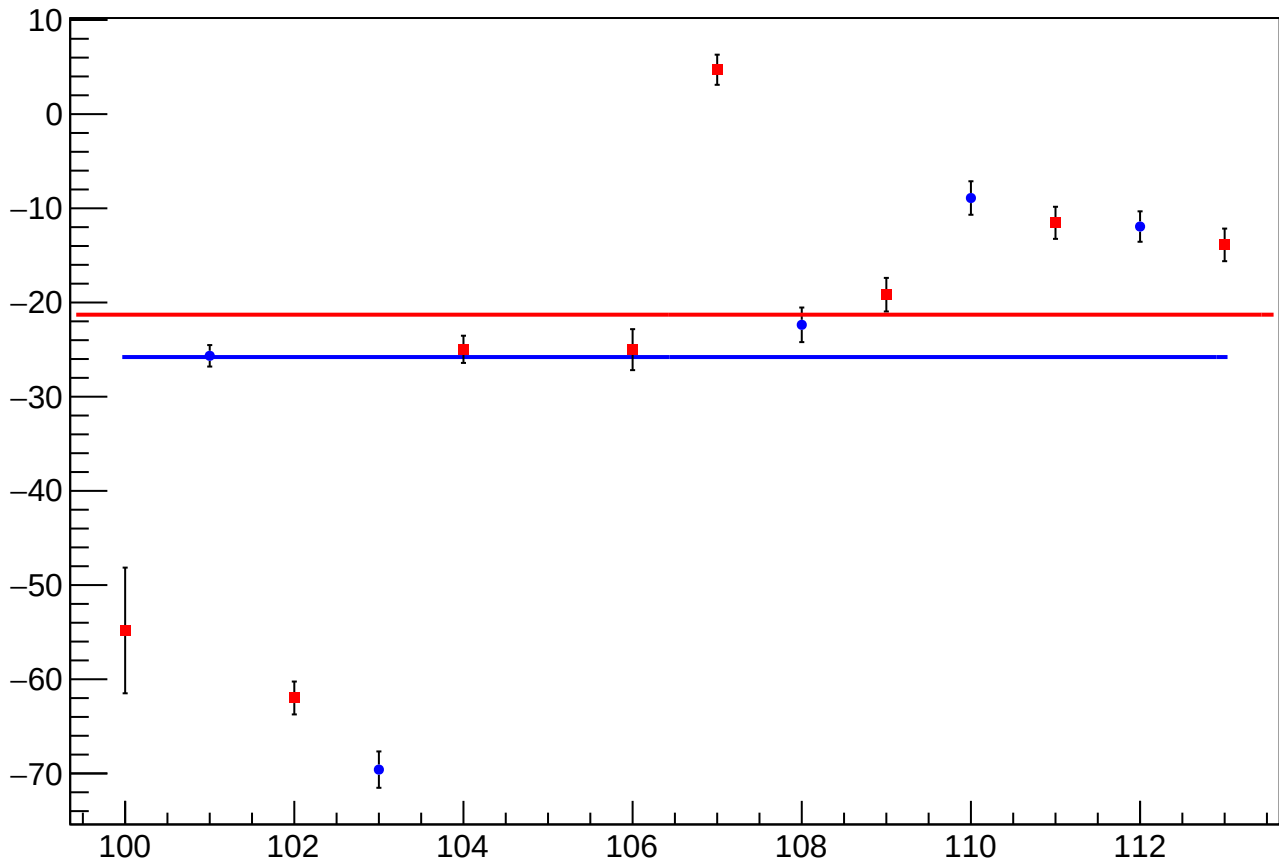
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.606 \pm 0.390$   $\chi^2/\text{NDF}$ : 427.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -25.791 $\pm$ 0.702  $\chi^2$ /NDF: 682.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -21.293 $\pm$ 0.642  $\chi^2$ /NDF: 894.6/7

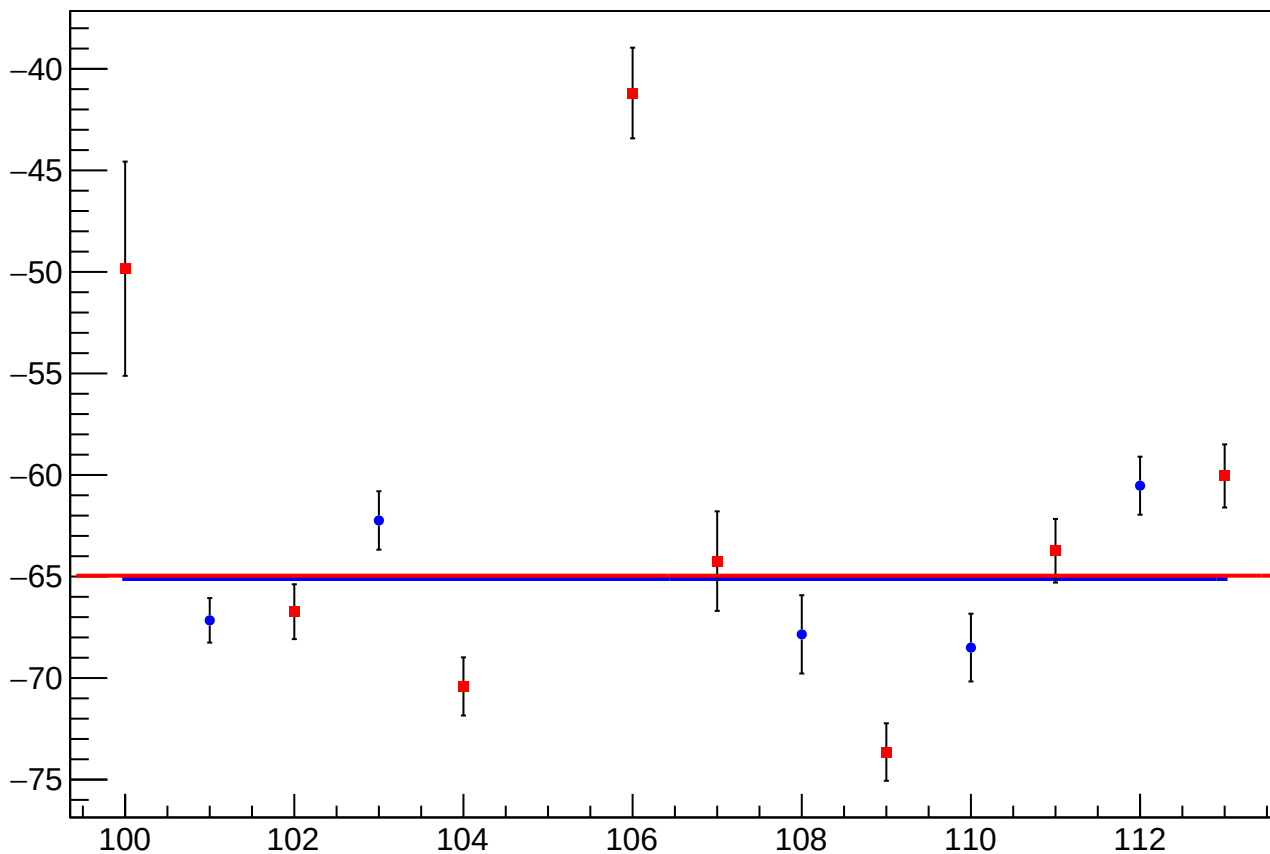
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -23.344 $\pm$ 0.474  $\chi^2$ /NDF: 1599.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -65.122 $\pm$ 0.641  $\chi^2$ /NDF: 23.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -64.959 $\pm$ 0.602  $\chi^2$ /NDF: 186.1/7

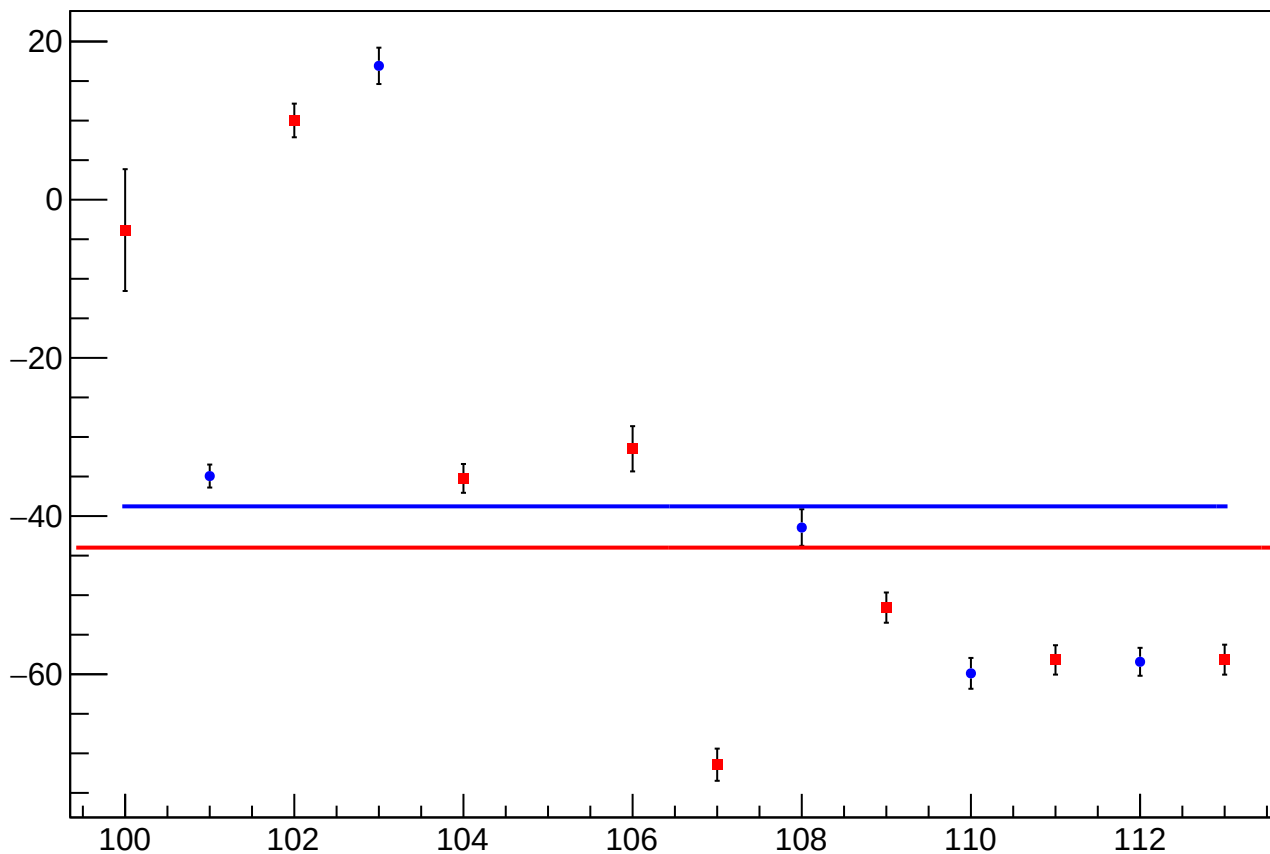
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -65.035 $\pm$ 0.439  $\chi^2$ /NDF: 210.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-38.773 \pm 0.835$   $\chi^2/\text{NDF}$ : 836.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-43.988 \pm 0.757$   $\chi^2/\text{NDF}$ : 1026.0/7

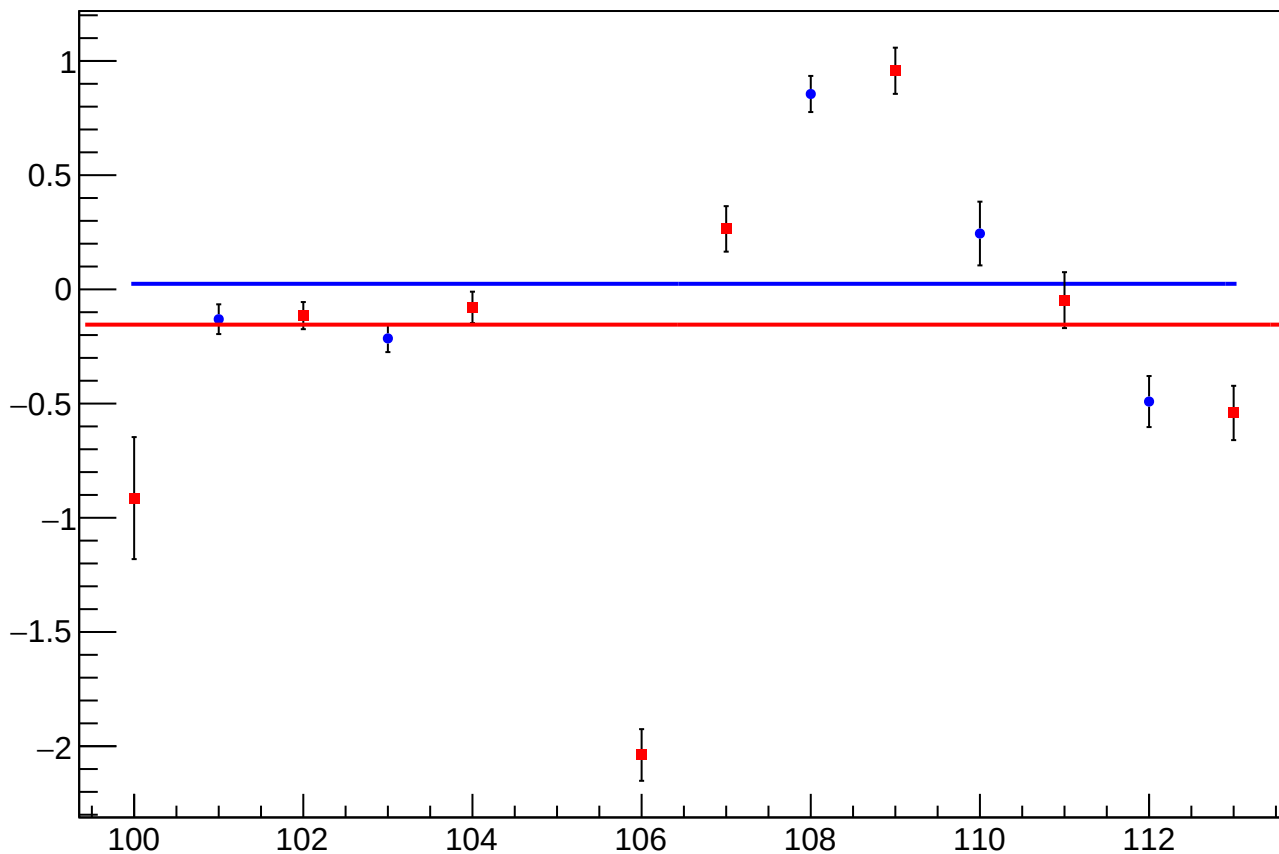
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-41.636 \pm 0.561$   $\chi^2/\text{NDF}$ : 1884.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.024 $\pm$ 0.035  $\chi^2$ /NDF: 155.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.154 $\pm$ 0.033  $\chi^2$ /NDF: 437.2/7

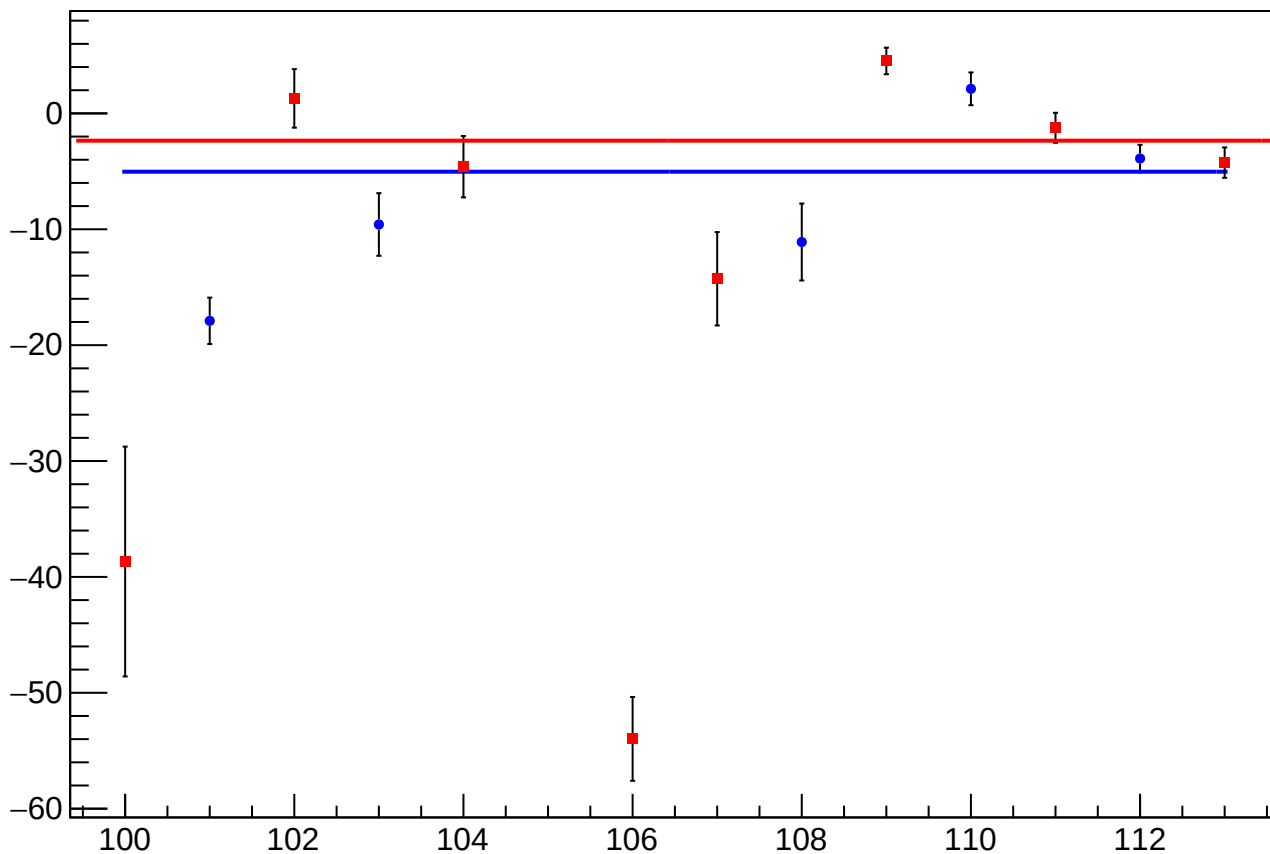
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.071 $\pm$ 0.024  $\chi^2$ /NDF: 606.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-5.032 \pm 0.769$   $\chi^2/\text{NDF}$ : 73.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.353 \pm 0.647$   $\chi^2/\text{NDF}$ : 267.5/7

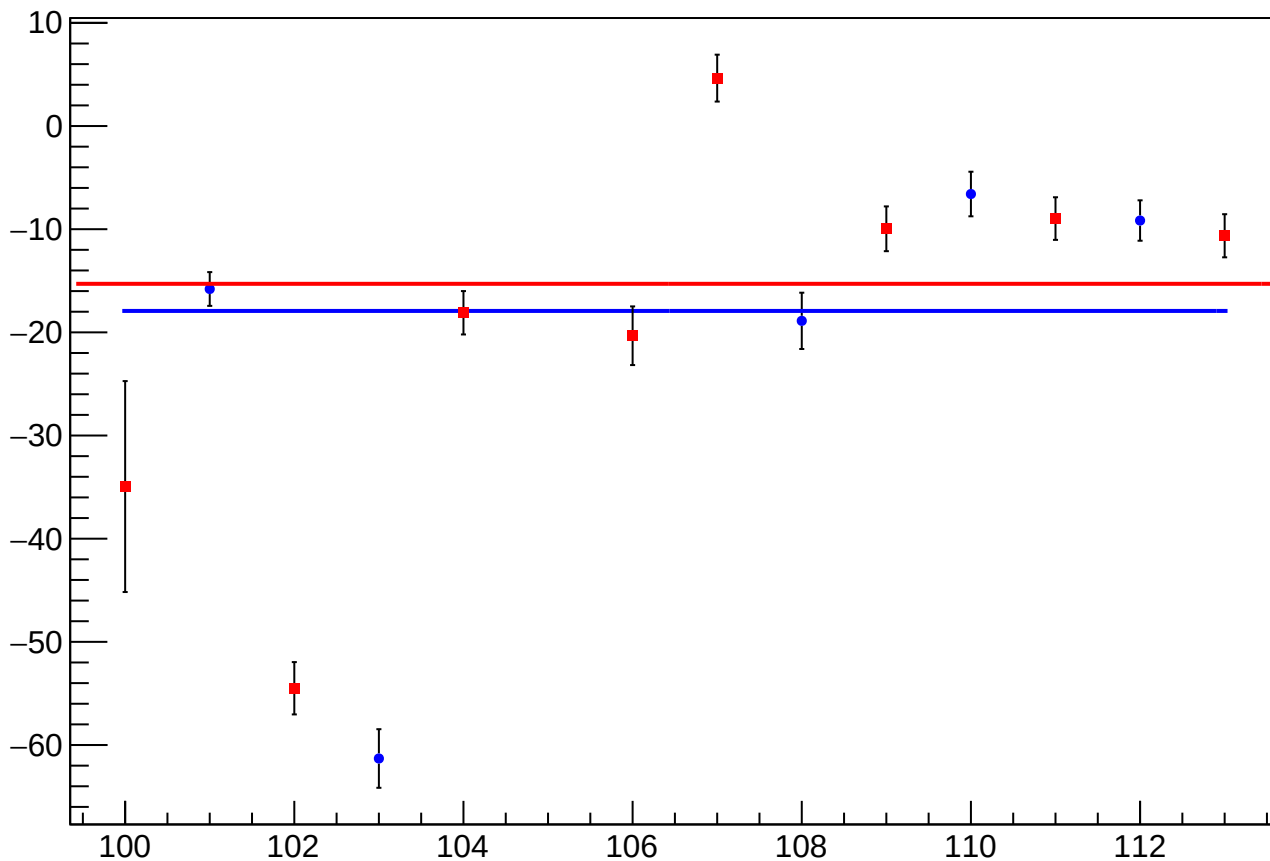
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-3.463 \pm 0.495$   $\chi^2/\text{NDF}$ : 348.5/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-17.923 \pm 0.951$   $\chi^2/\text{NDF}$ : 282.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-15.295 \pm 0.850$   $\chi^2/\text{NDF}$ : 344.9/7

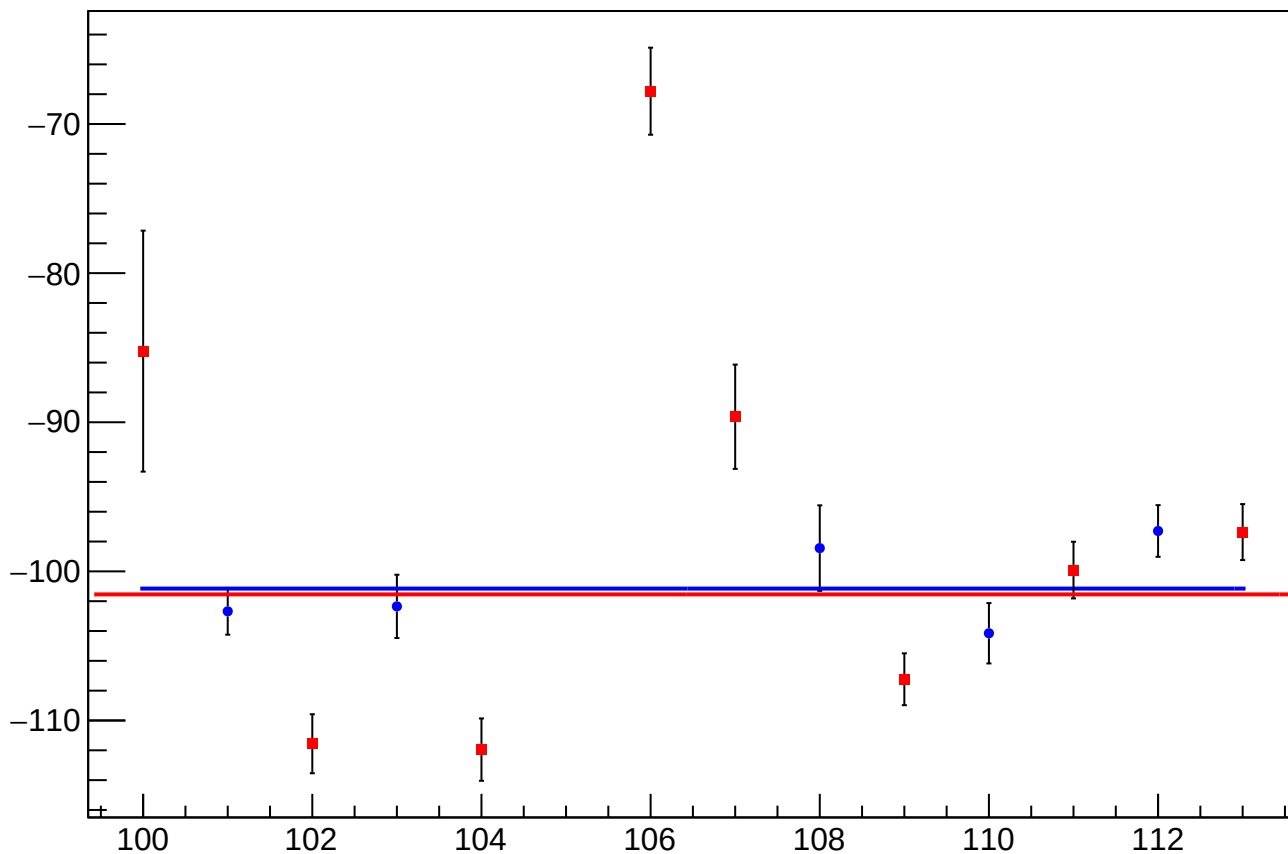
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-16.462 \pm 0.634$   $\chi^2/\text{NDF}$ : 631.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-101.155 \pm 0.868$   $\chi^2/\text{NDF}$ : 9.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-101.545 \pm 0.793$   $\chi^2/\text{NDF}$ : 216.2/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

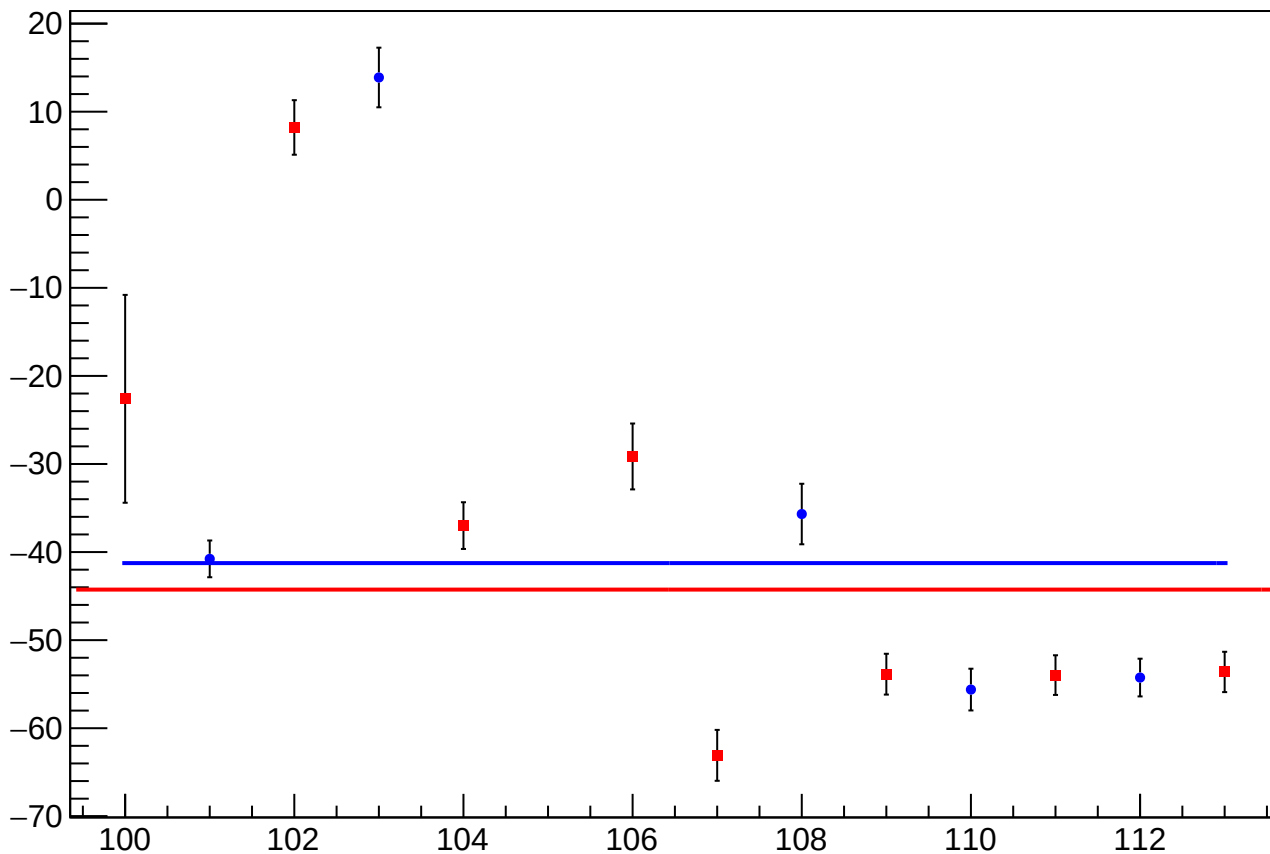
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-101.367 \pm 0.585$   $\chi^2/\text{NDF}$ : 225.6/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_3726\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -41.253+/-1.119  $\chi^2/\text{NDF}$ : 341.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -44.261+/-0.991  $\chi^2/\text{NDF}$ : 409.1/7

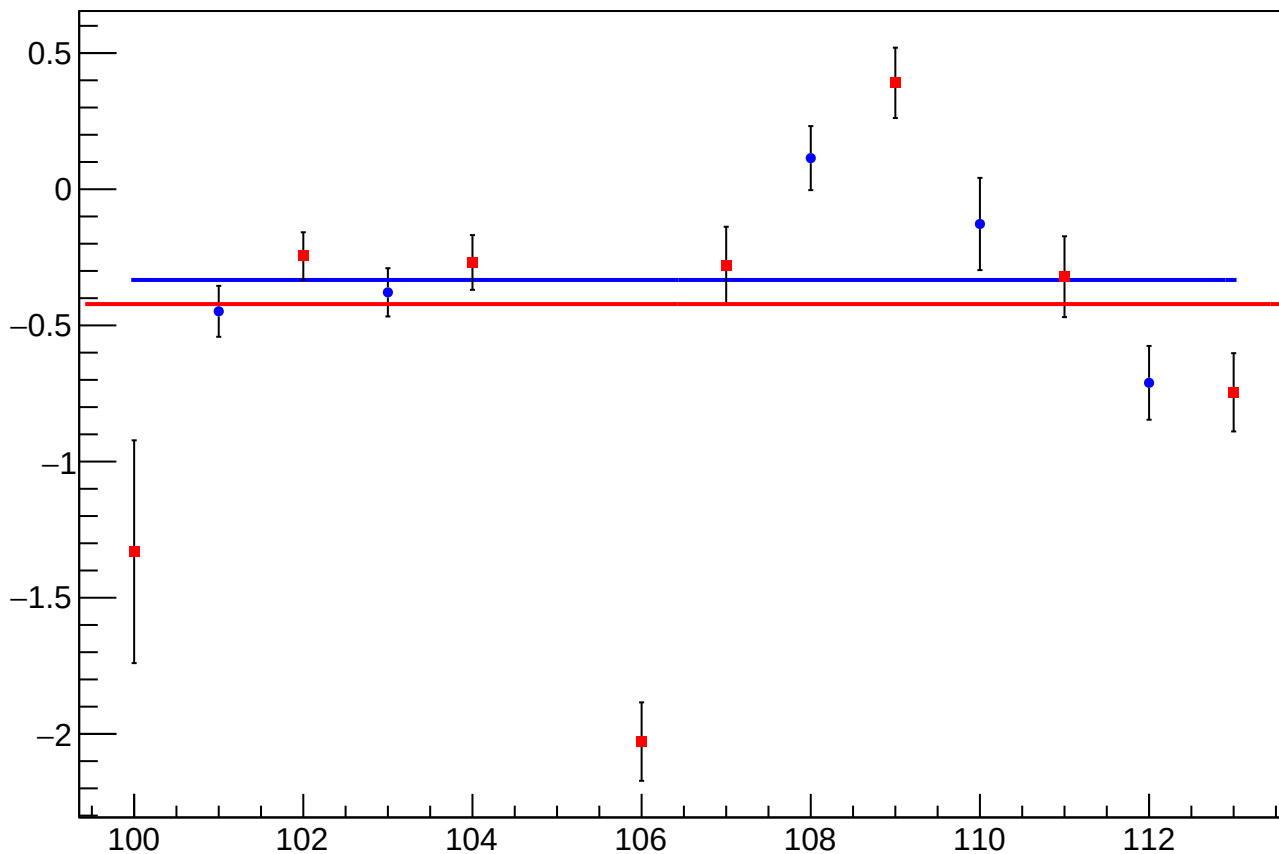
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -42.940+/-0.742  $\chi^2/\text{NDF}$ : 754.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.333 \pm 0.050$   $\chi^2/\text{NDF}$ : 25.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.422 \pm 0.045$   $\chi^2/\text{NDF}$ : 181.9/7

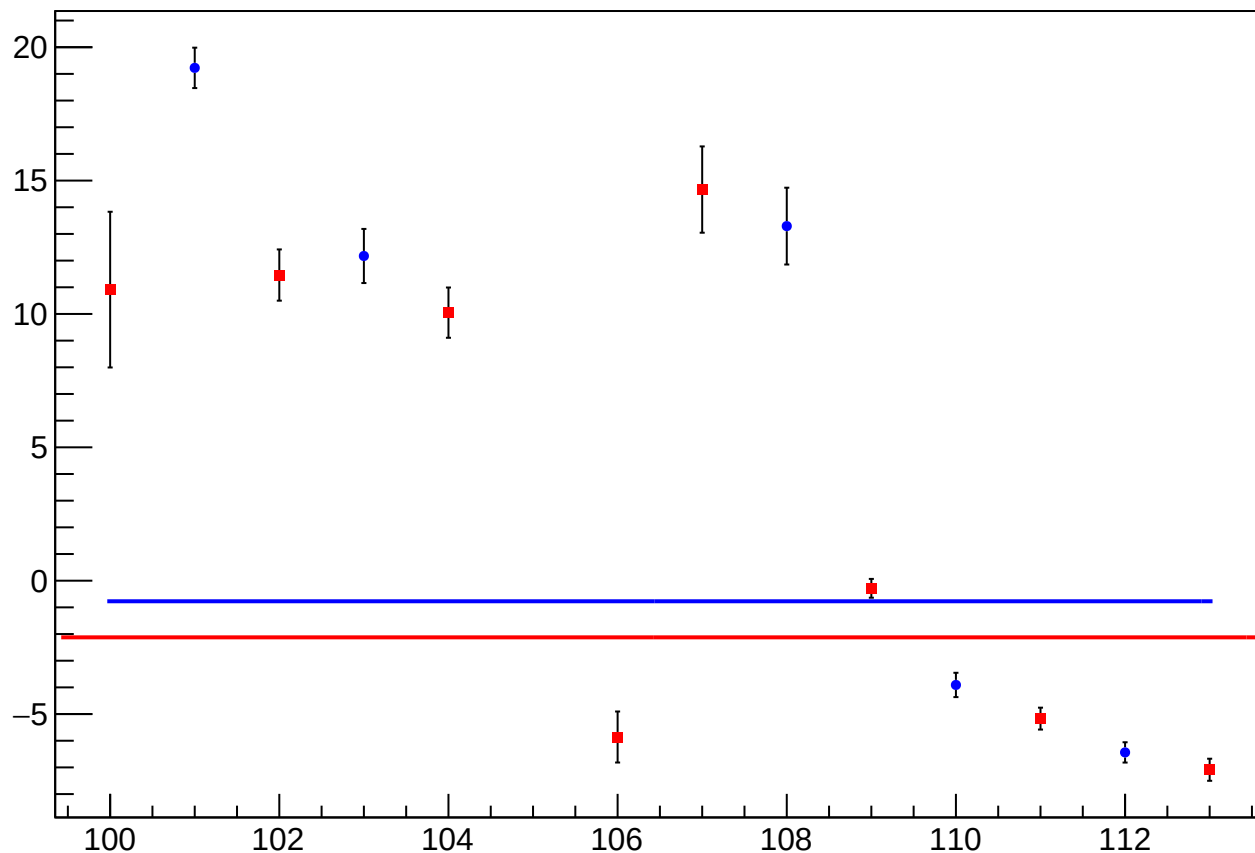
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.382 \pm 0.033$   $\chi^2/\text{NDF}$ : 209.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-0.772 \pm 0.259$   $\chi^2/\text{NDF}$ : 1224.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.124 \pm 0.206$   $\chi^2/\text{NDF}$ : 735.9/7

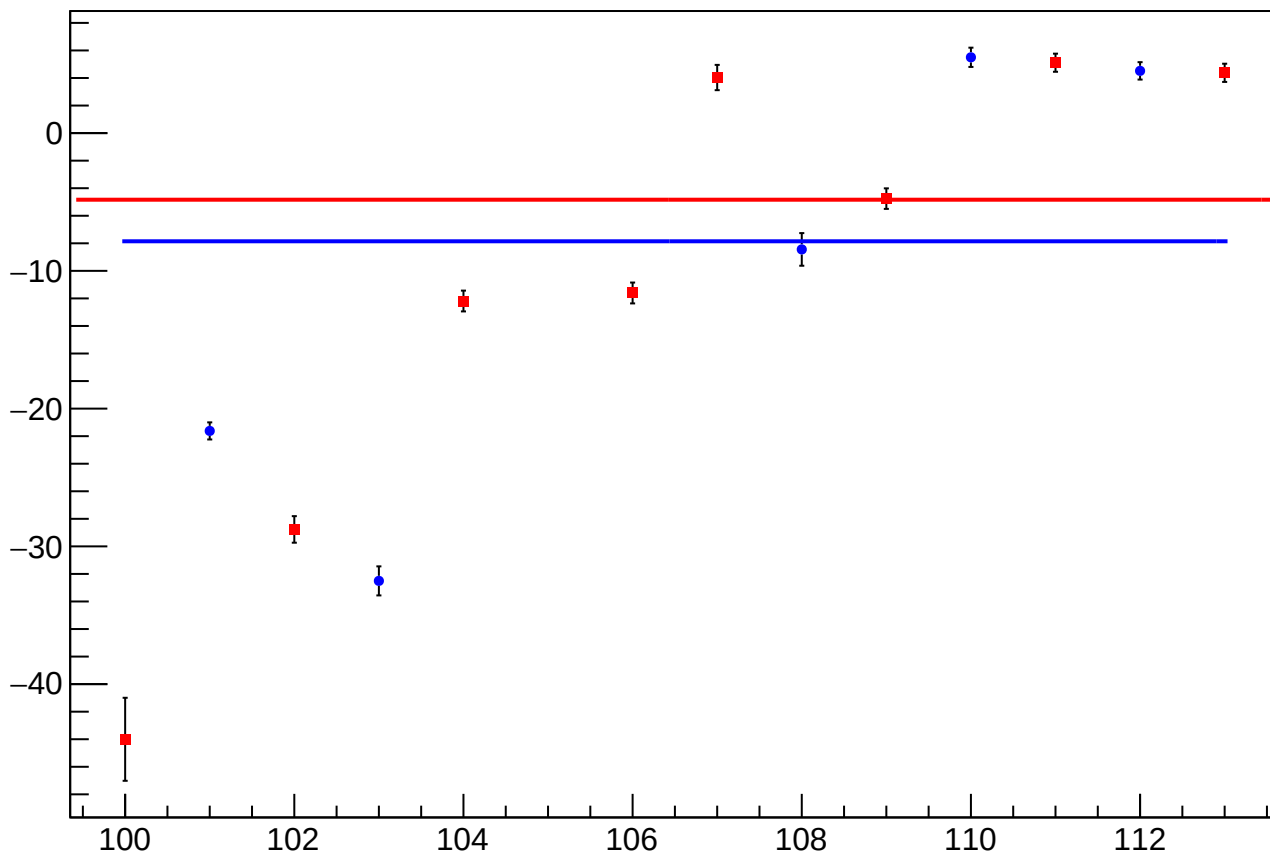
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.601 \pm 0.161$   $\chi^2/\text{NDF}$ : 1977.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -7.853+/-0.338  $\chi^2/\text{NDF}$ : 1787.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.835+/-0.285  $\chi^2/\text{NDF}$ : 1476.6/7

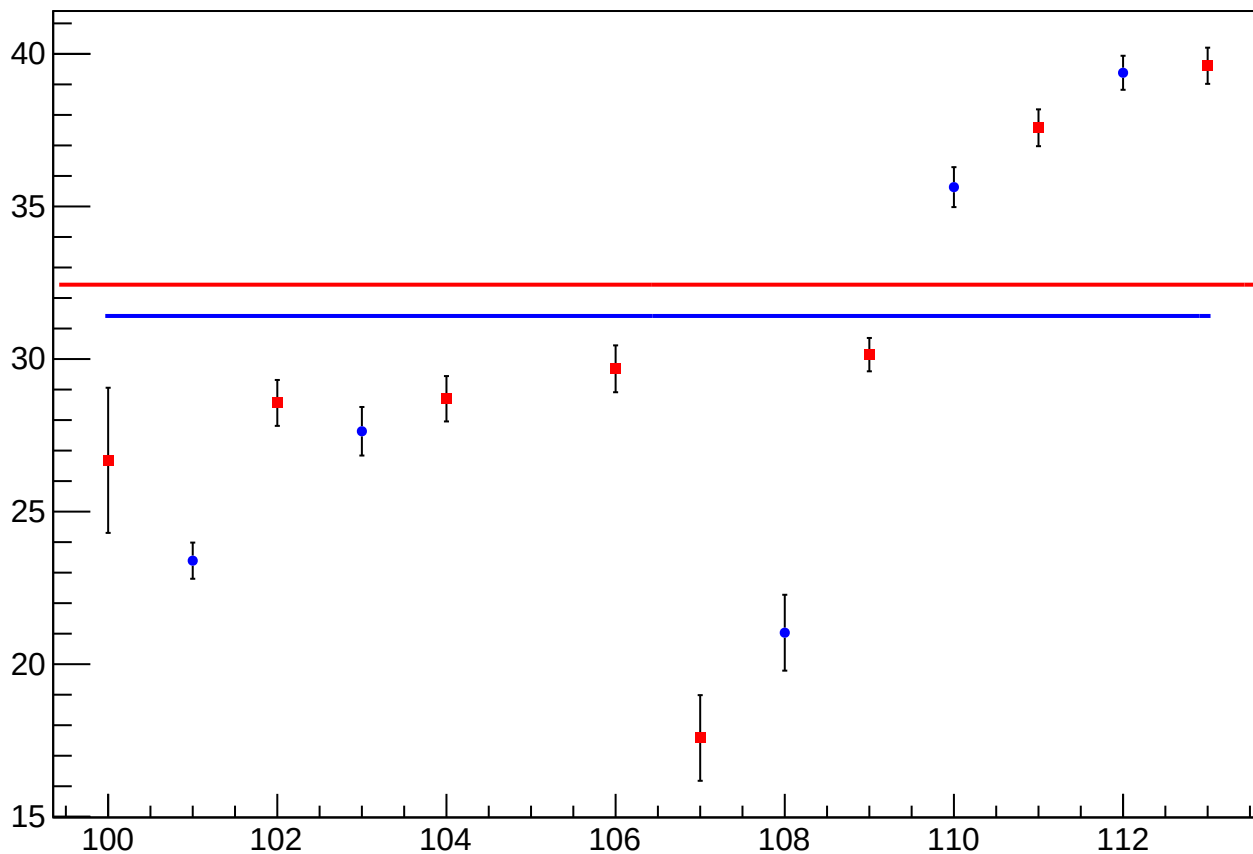
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.092+/-0.218  $\chi^2/\text{NDF}$ : 3310.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 31.412 $\pm$ 0.307  $\chi^2$ /NDF: 521.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 32.437 $\pm$ 0.259  $\chi^2$ /NDF: 419.1/7

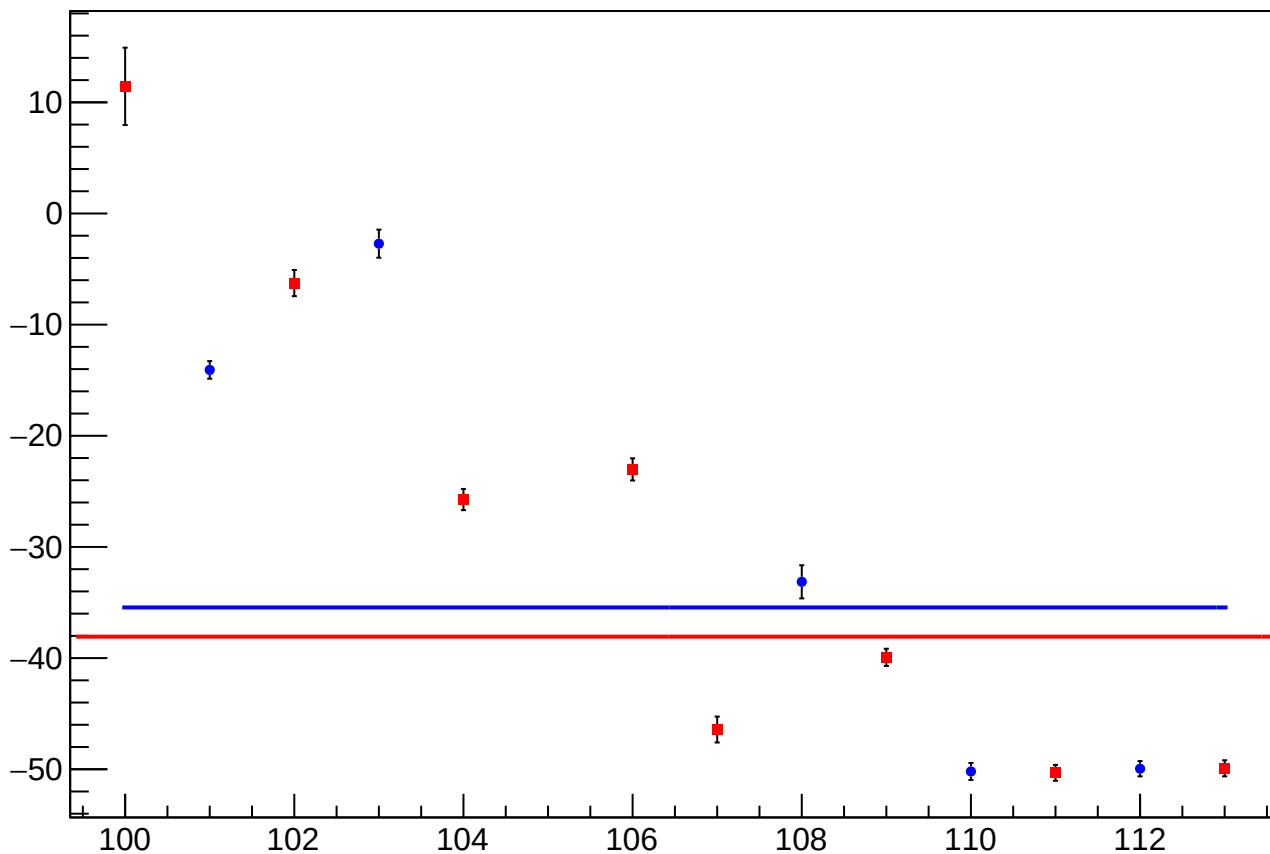
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 32.010 $\pm$ 0.198  $\chi^2$ /NDF: 946.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-35.443 \pm 0.393$   $\chi^2/\text{NDF}$ : 2217.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-38.071 \pm 0.330$   $\chi^2/\text{NDF}$ : 1947.2/7

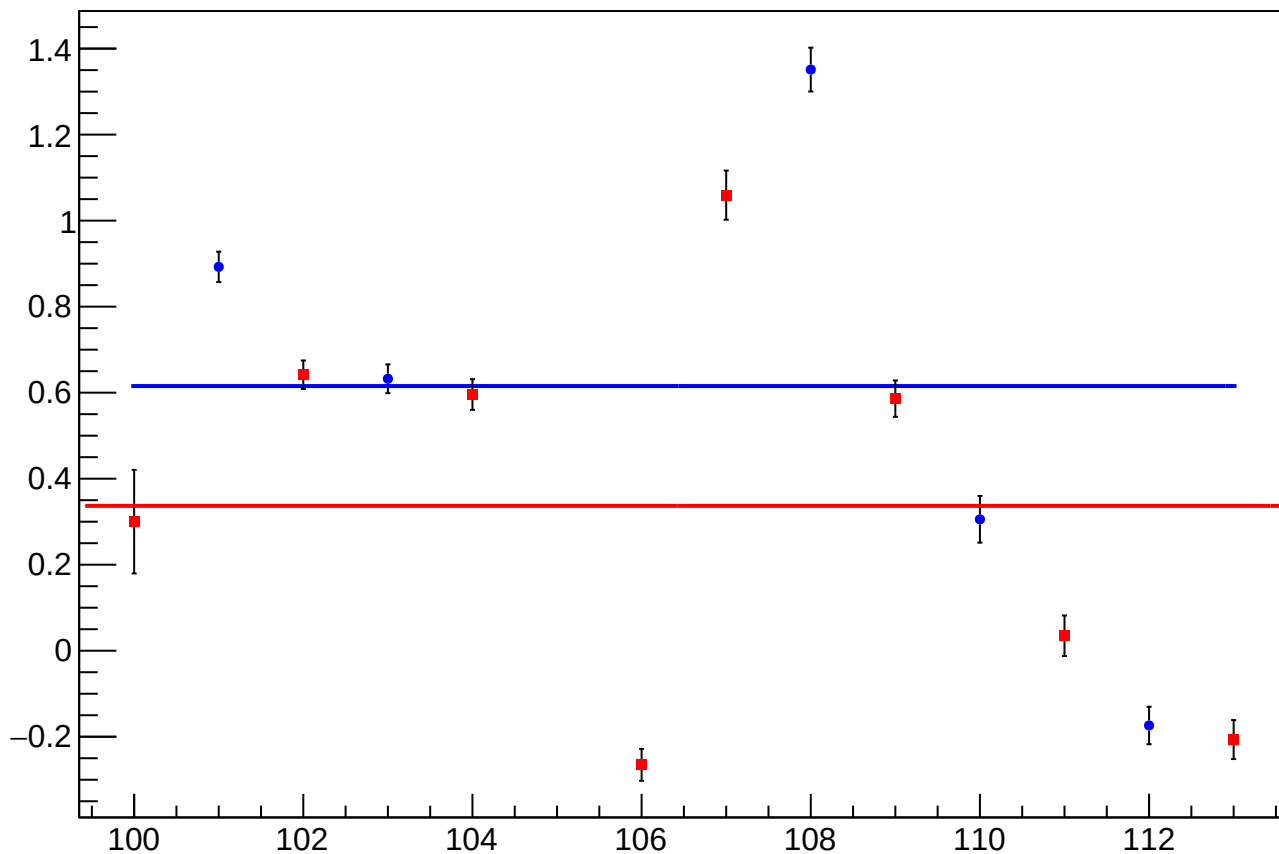
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-36.983 \pm 0.253$   $\chi^2/\text{NDF}$ : 4191.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.615 $\pm$ 0.018  $\chi^2$ /NDF: 631.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.337 $\pm$ 0.015  $\chi^2$ /NDF: 779.5/7

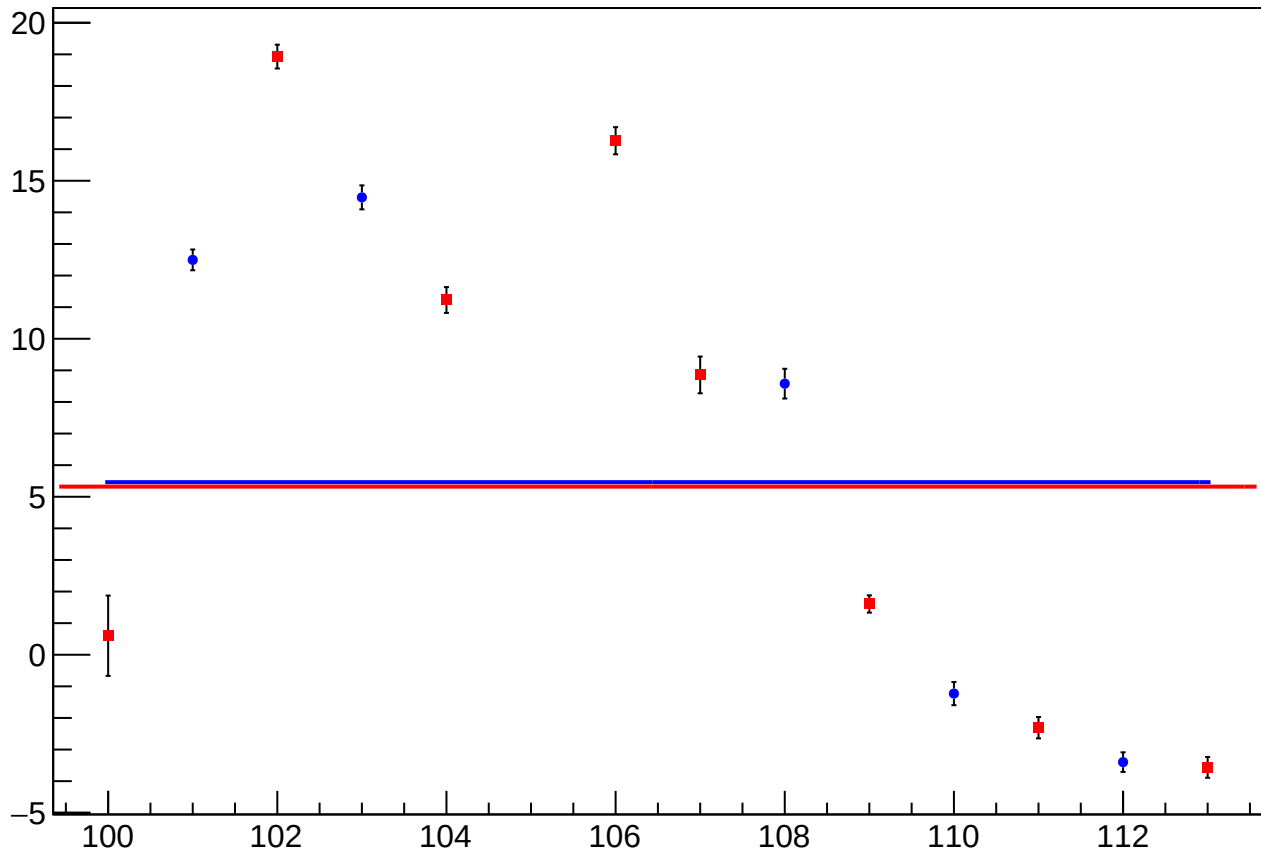
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.450 $\pm$ 0.012  $\chi^2$ /NDF: 1546.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $5.461 \pm 0.161$   $\chi^2/\text{NDF}$ : 2212.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $5.321 \pm 0.137$   $\chi^2/\text{NDF}$ : 3630.0/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

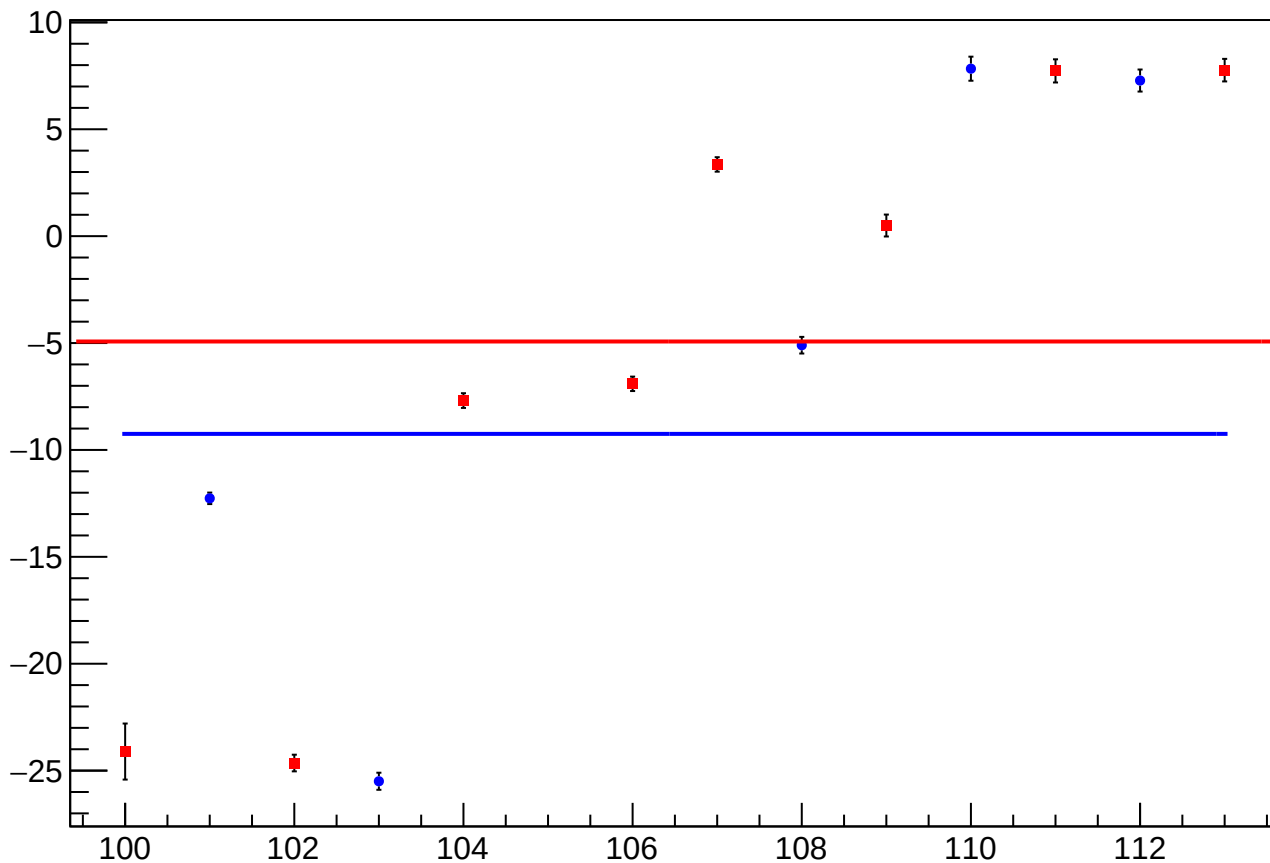
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $5.380 \pm 0.104$   $\chi^2/\text{NDF}$ : 5842.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -9.249+/-0.172  $\chi^2/\text{NDF}$ : 3843.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.927+/-0.151  $\chi^2/\text{NDF}$ : 4710.2/7

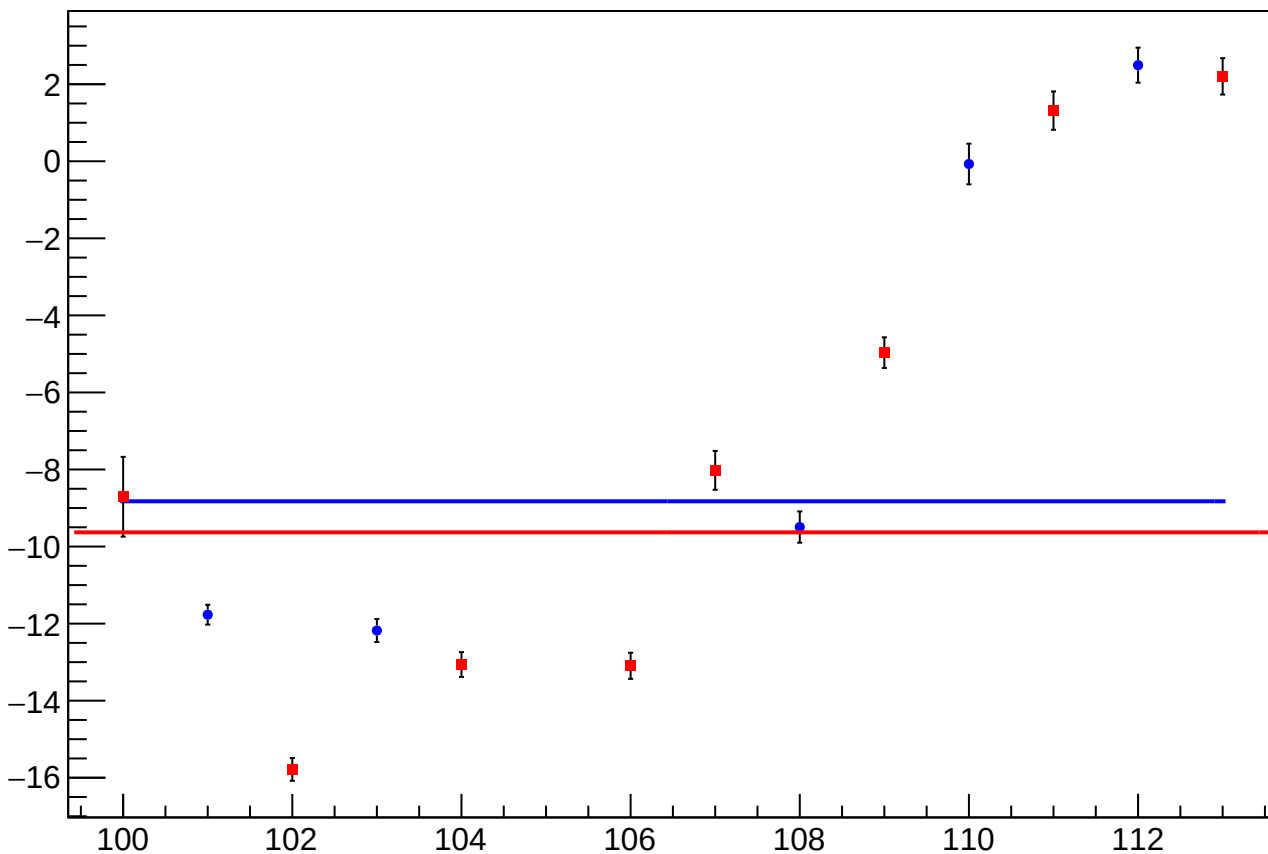
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.802+/-0.114  $\chi^2/\text{NDF}$ : 8910.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -8.825+/-0.156  $\chi^2/\text{NDF}$ : 1157.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9.631+/-0.142  $\chi^2/\text{NDF}$ : 1910.8/7

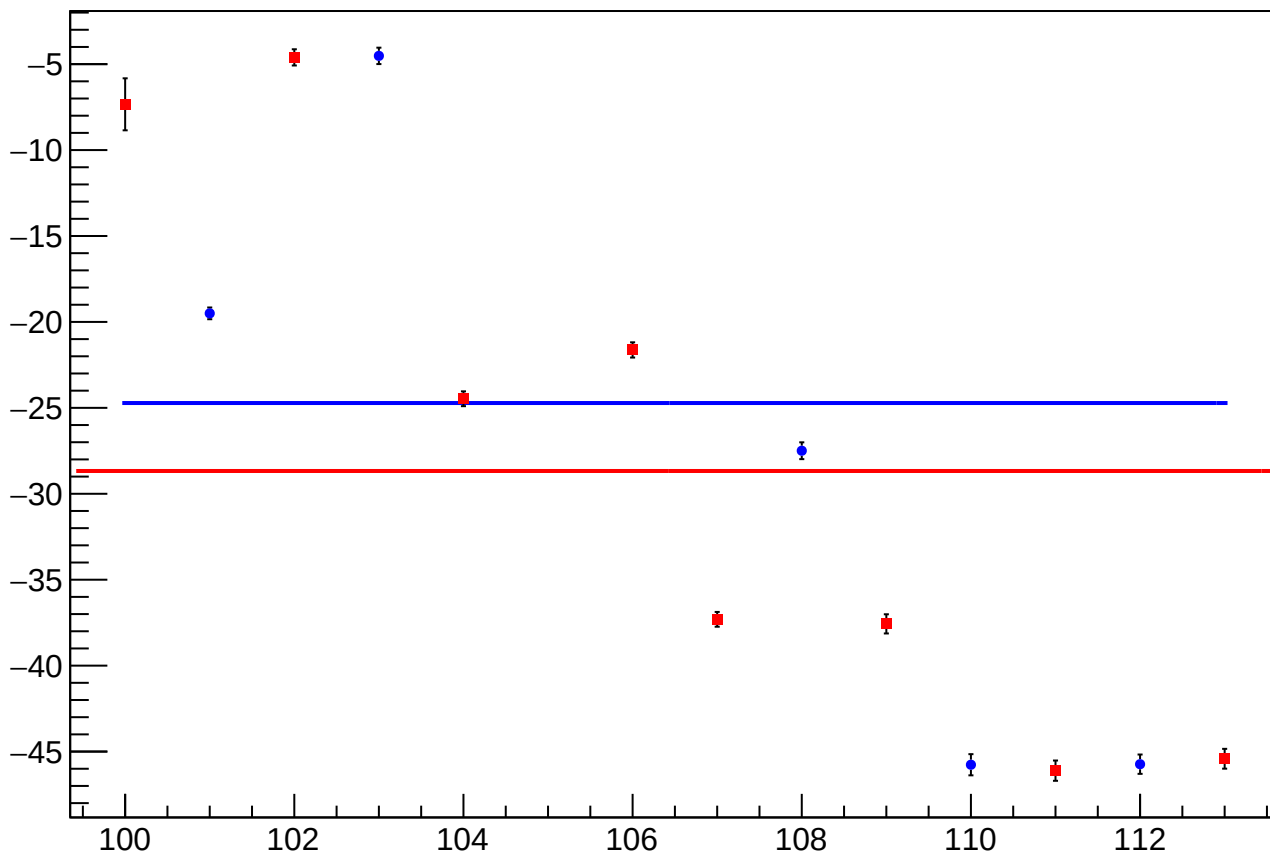
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.267+/-0.105  $\chi^2/\text{NDF}$ : 3082.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -24.719 $\pm$ 0.209  $\chi^2$ /NDF: 4621.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -28.674 $\pm$ 0.183  $\chi^2$ /NDF: 5522.4/7

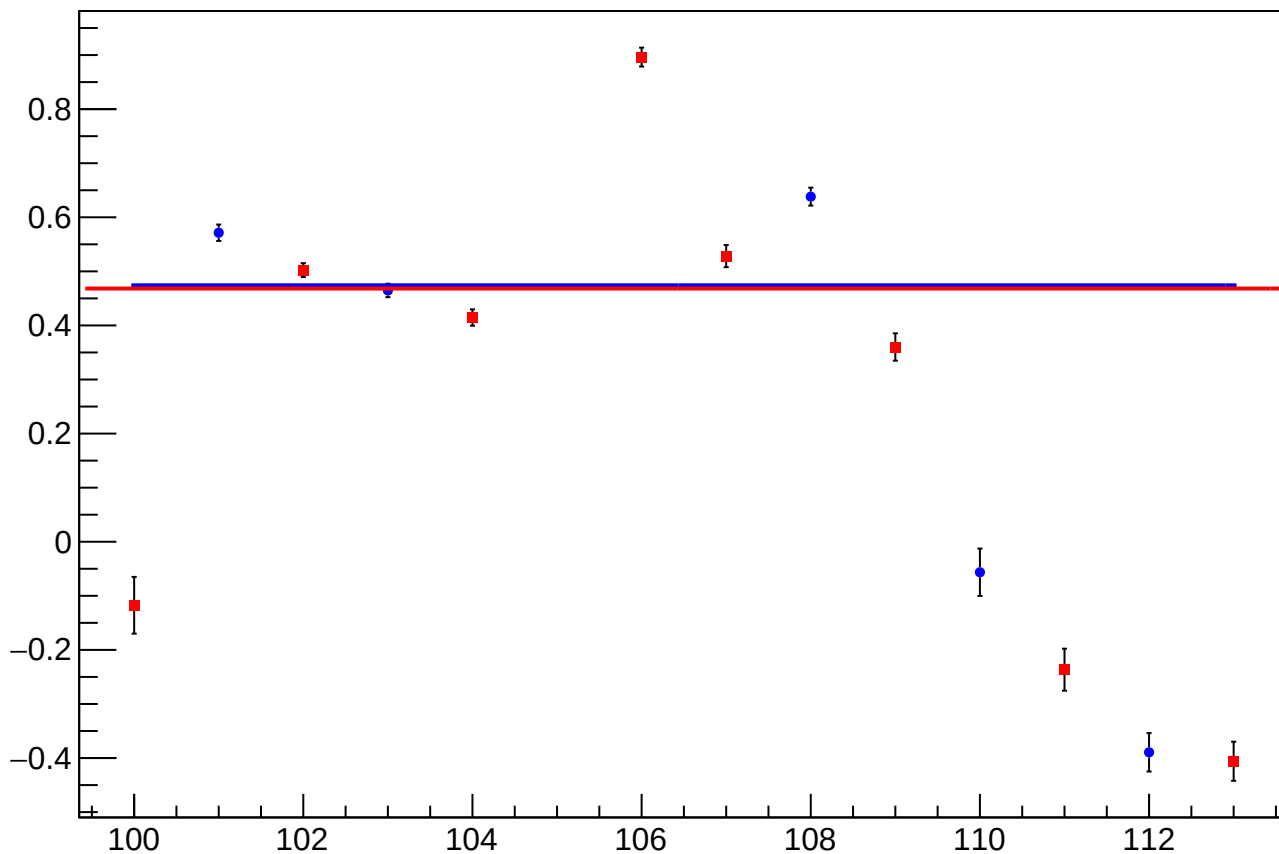
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -26.957 $\pm$ 0.138  $\chi^2$ /NDF: 10346.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.474 $\pm$ 0.008  $\chi^2$ /NDF: 877.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.468 $\pm$ 0.007  $\chi^2$ /NDF: 1686.0/7

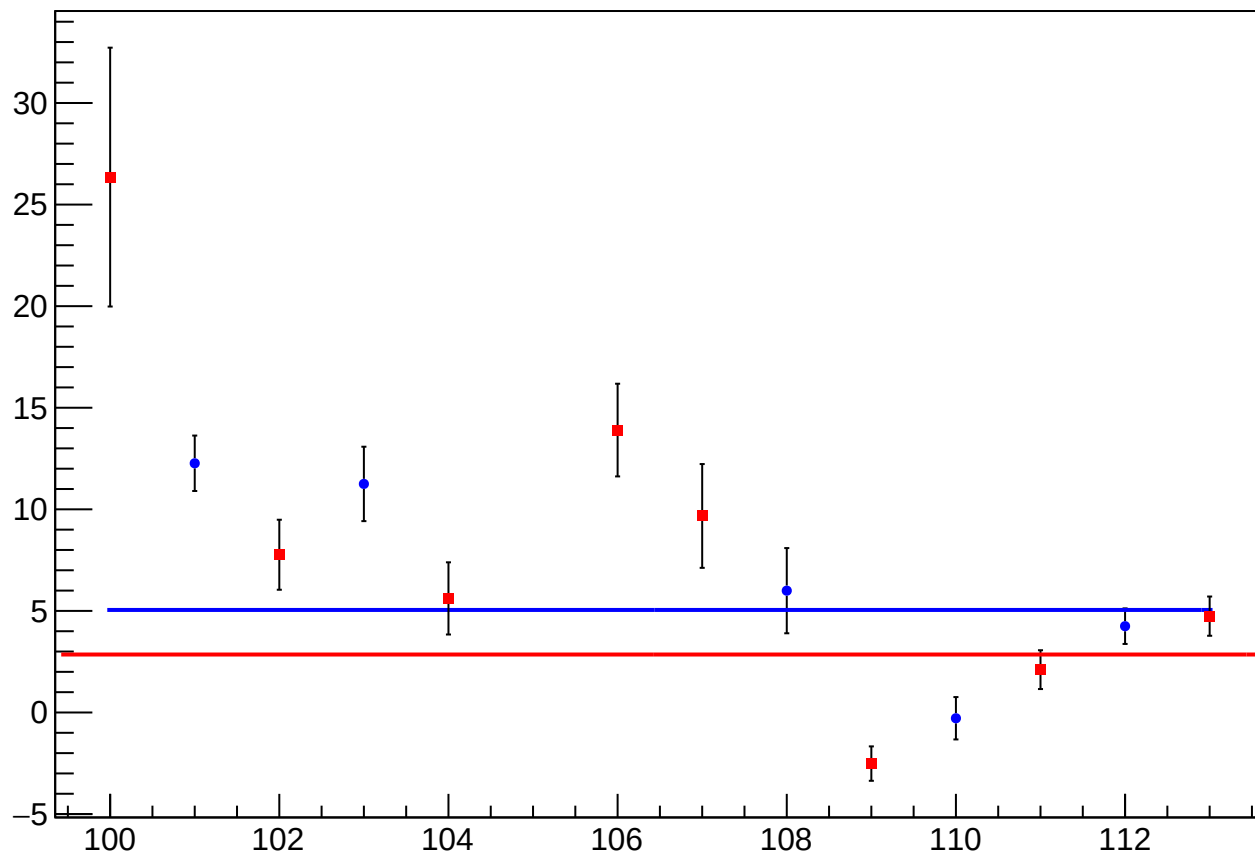
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.471 $\pm$ 0.005  $\chi^2$ /NDF: 2563.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 5.047 $\pm$ 0.551  $\chi^2$ /NDF: 66.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.853 $\pm$ 0.467  $\chi^2$ /NDF: 99.4/7

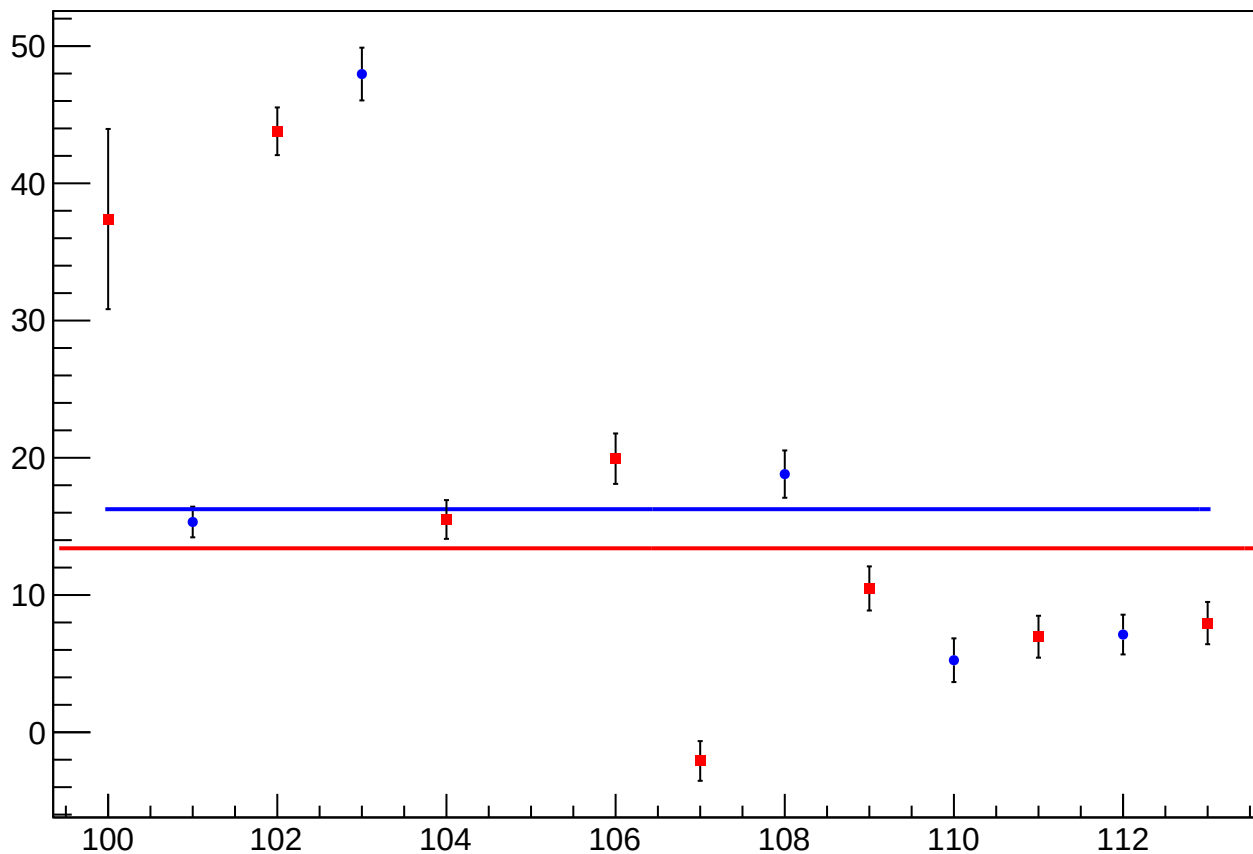
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.770 $\pm$ 0.356  $\chi^2$ /NDF: 175.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 16.255 $\pm$ 0.662  $\chi^2$ /NDF: 362.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13.405 $\pm$ 0.590  $\chi^2$ /NDF: 482.3/7

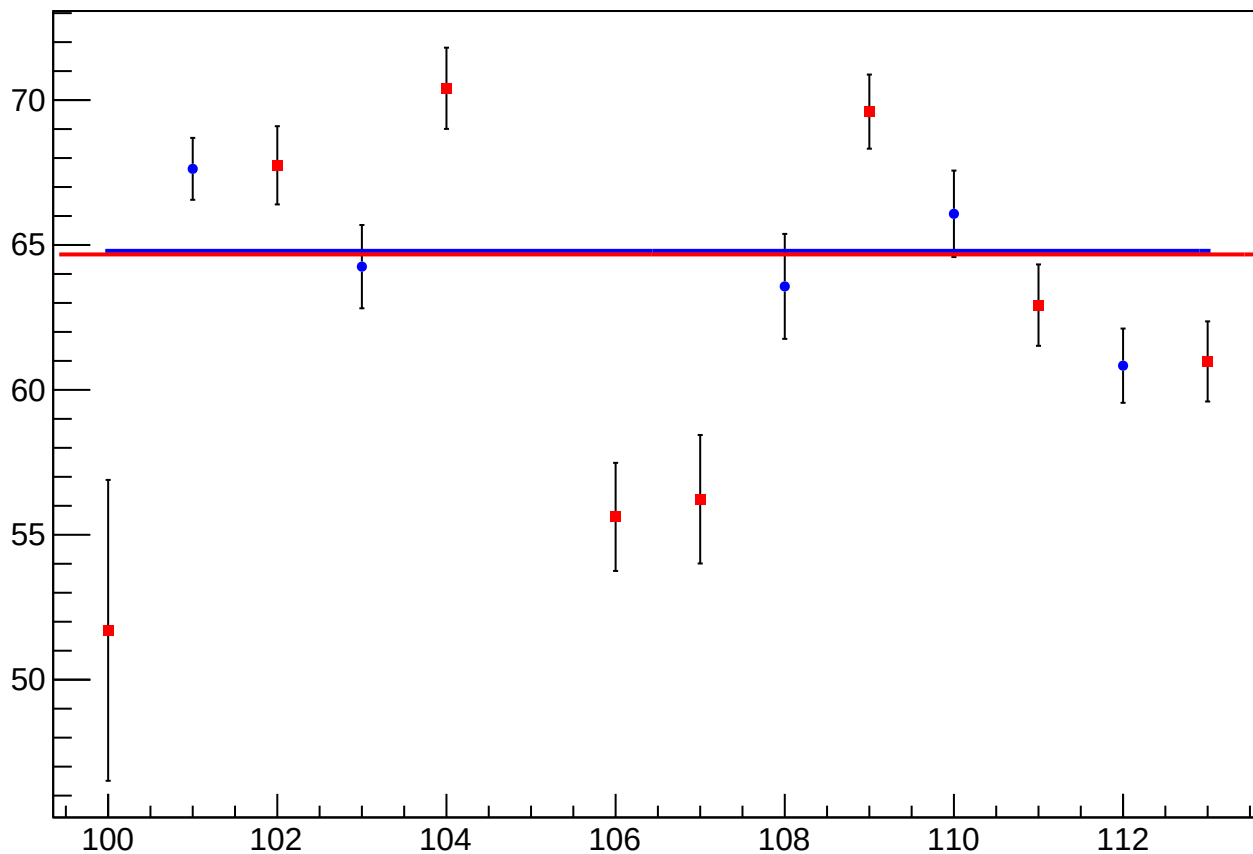
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 14.667 $\pm$ 0.441  $\chi^2$ /NDF: 855.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 64.798 $\pm$ 0.606  $\chi^2/\text{NDF}$ : 17.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.674 $\pm$ 0.557  $\chi^2/\text{NDF}$ : 89.8/7

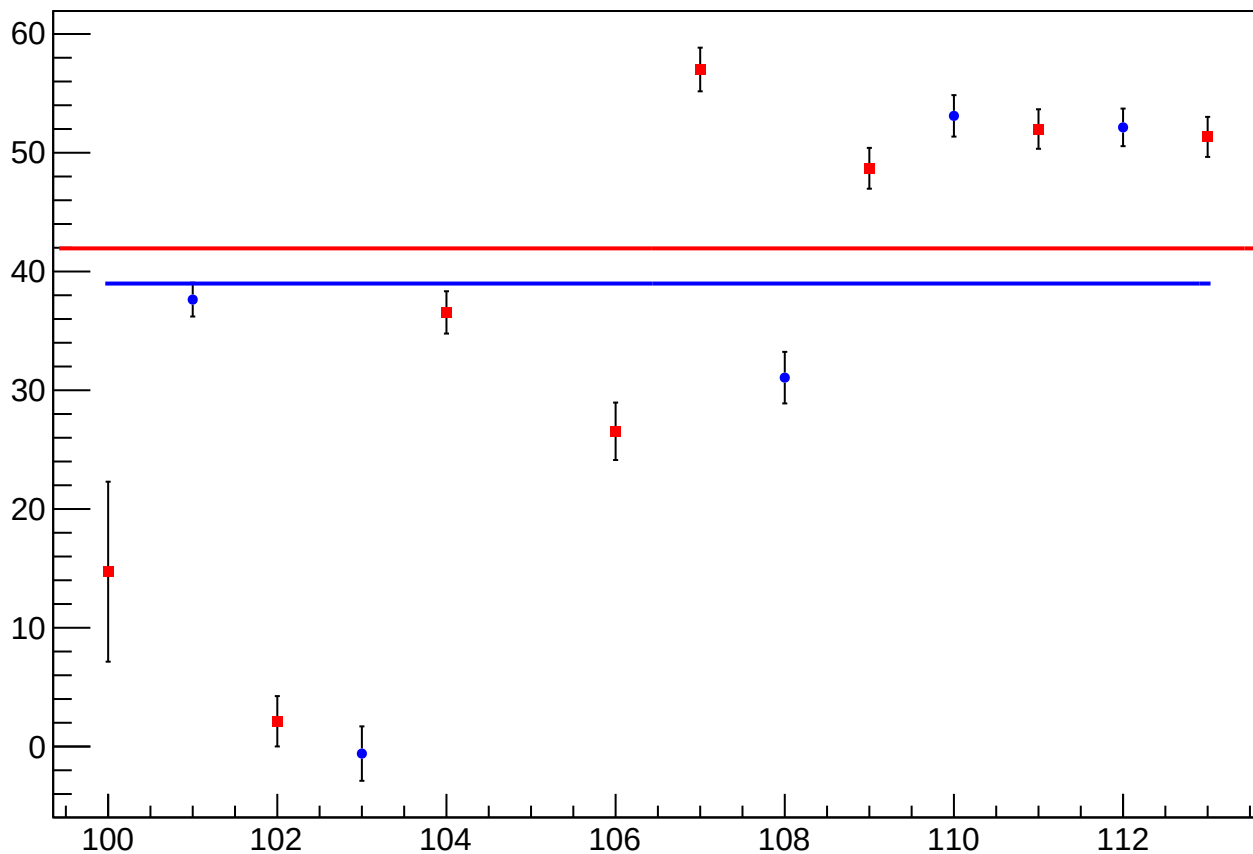
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.731 $\pm$ 0.410  $\chi^2/\text{NDF}$ : 107.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 38.986 $\pm$ 0.785  $\chi^2$ /NDF: 447.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 41.948 $\pm$ 0.695  $\chi^2$ /NDF: 565.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

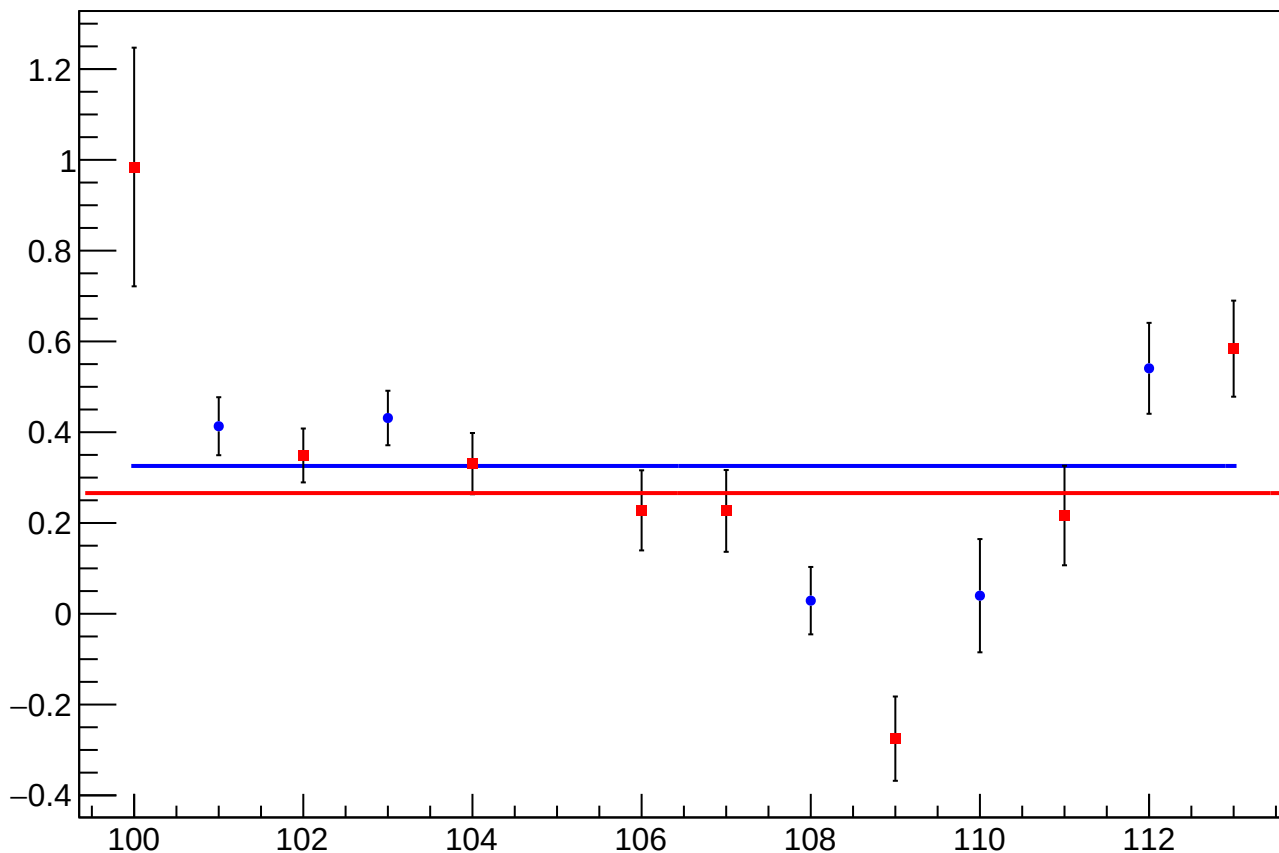
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 40.647 $\pm$ 0.520  $\chi^2$ /NDF: 1020.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.326 $\pm$ 0.034  $\chi^2$ /NDF: 30.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.266 $\pm$ 0.031  $\chi^2$ /NDF: 53.9/7

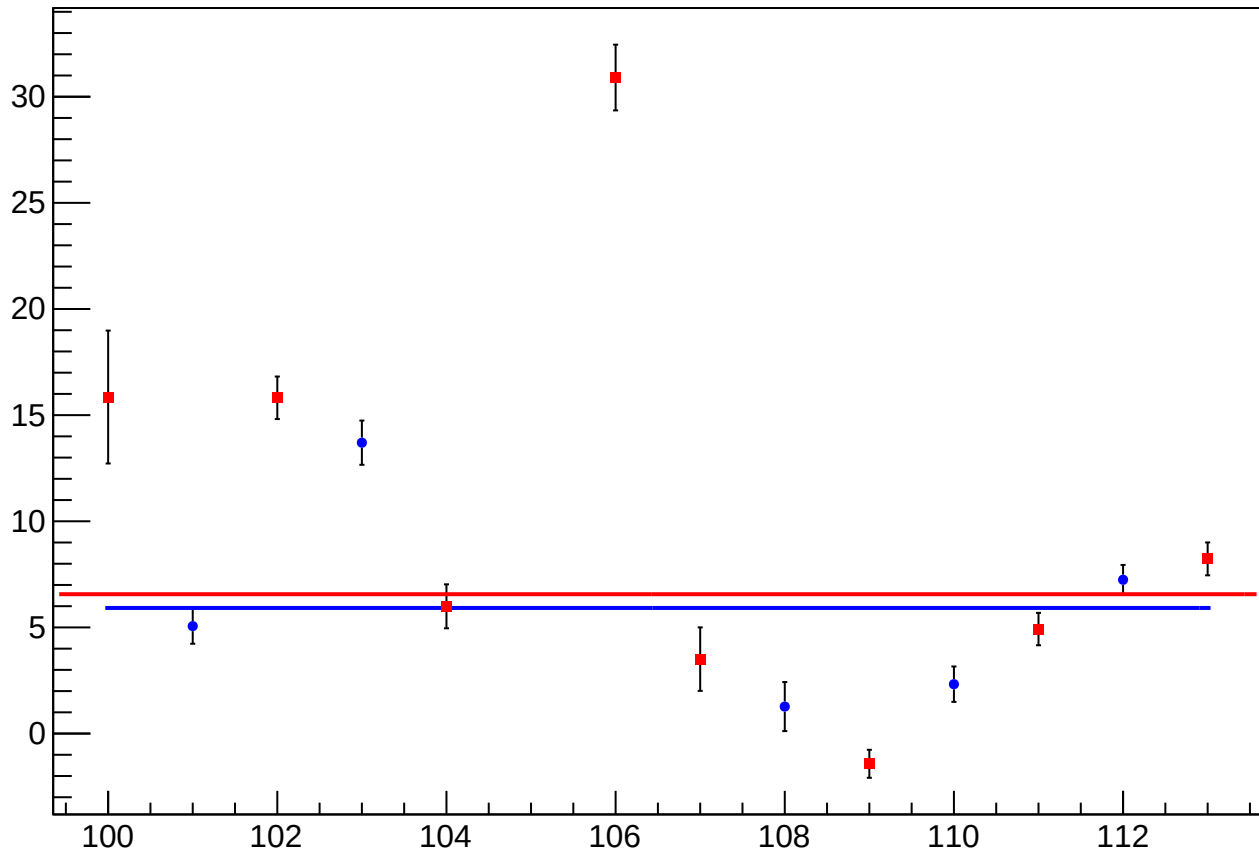
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.293 $\pm$ 0.023  $\chi^2$ /NDF: 86.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 5.917+/-0.389  $\chi^2/\text{NDF}$ : 95.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6.565+/-0.341  $\chi^2/\text{NDF}$ : 501.8/7

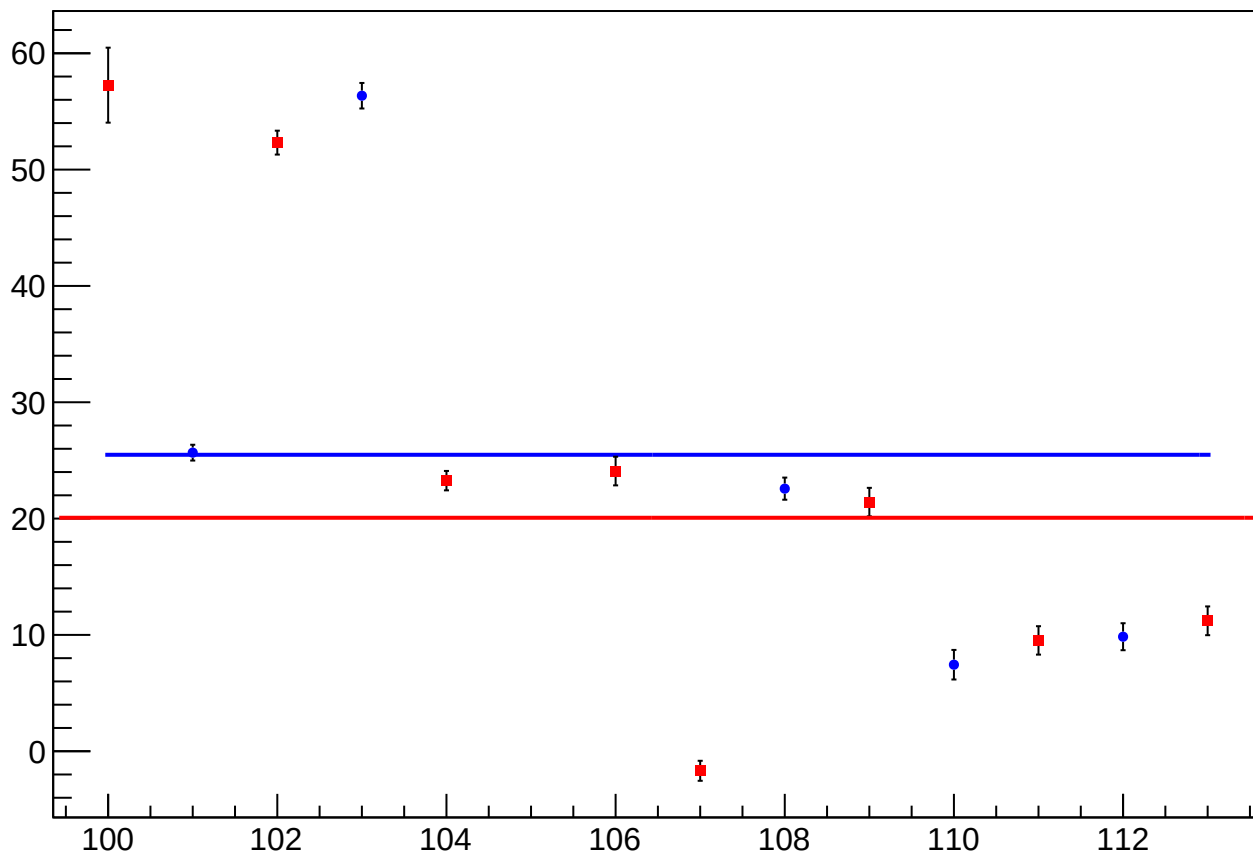
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.283+/-0.257  $\chi^2/\text{NDF}$ : 598.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 25.484 $\pm$ 0.428  $\chi^2$ /NDF: 1183.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 20.070 $\pm$ 0.393  $\chi^2$ /NDF: 1911.1/7

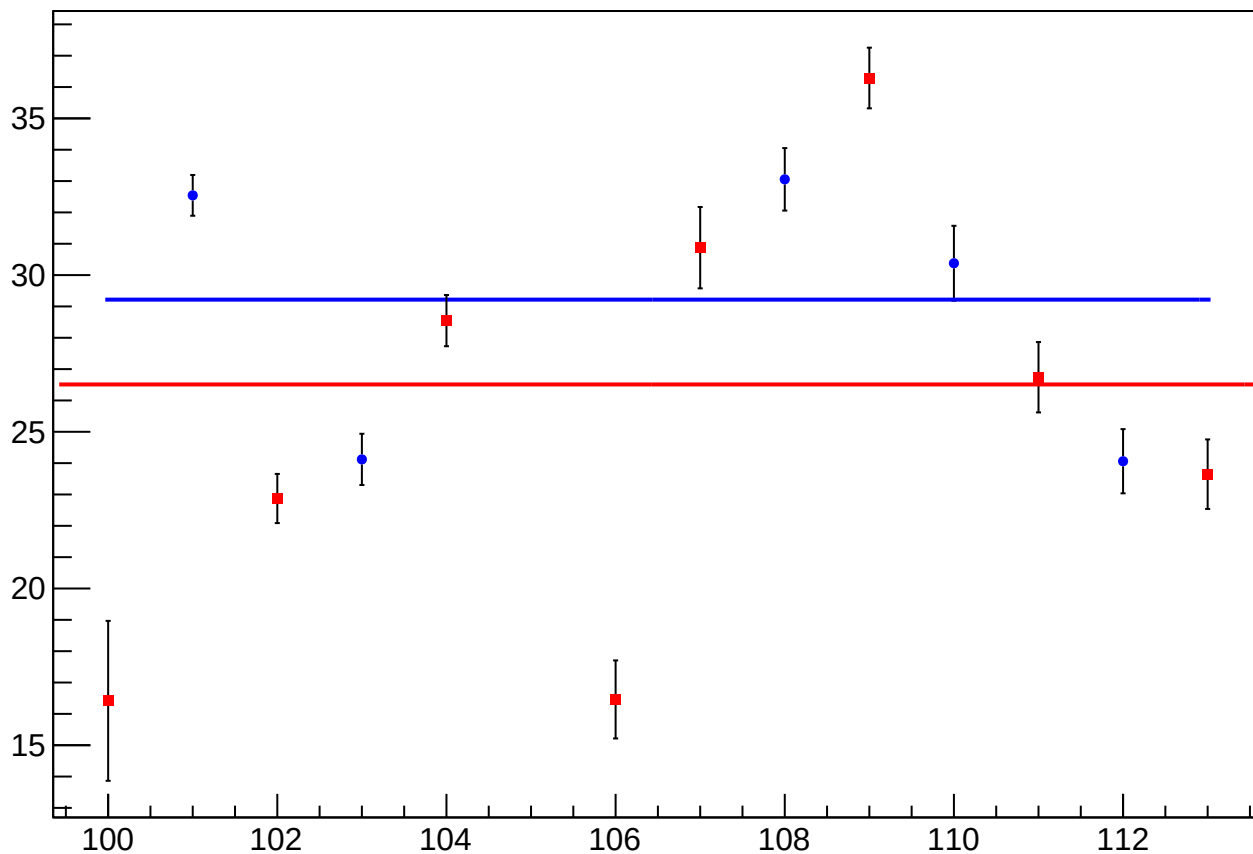
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 22.546 $\pm$ 0.289  $\chi^2$ /NDF: 3181.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 29.217 $\pm$ 0.392  $\chi^2$ /NDF: 106.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.510 $\pm$ 0.373  $\chi^2$ /NDF: 228.6/7

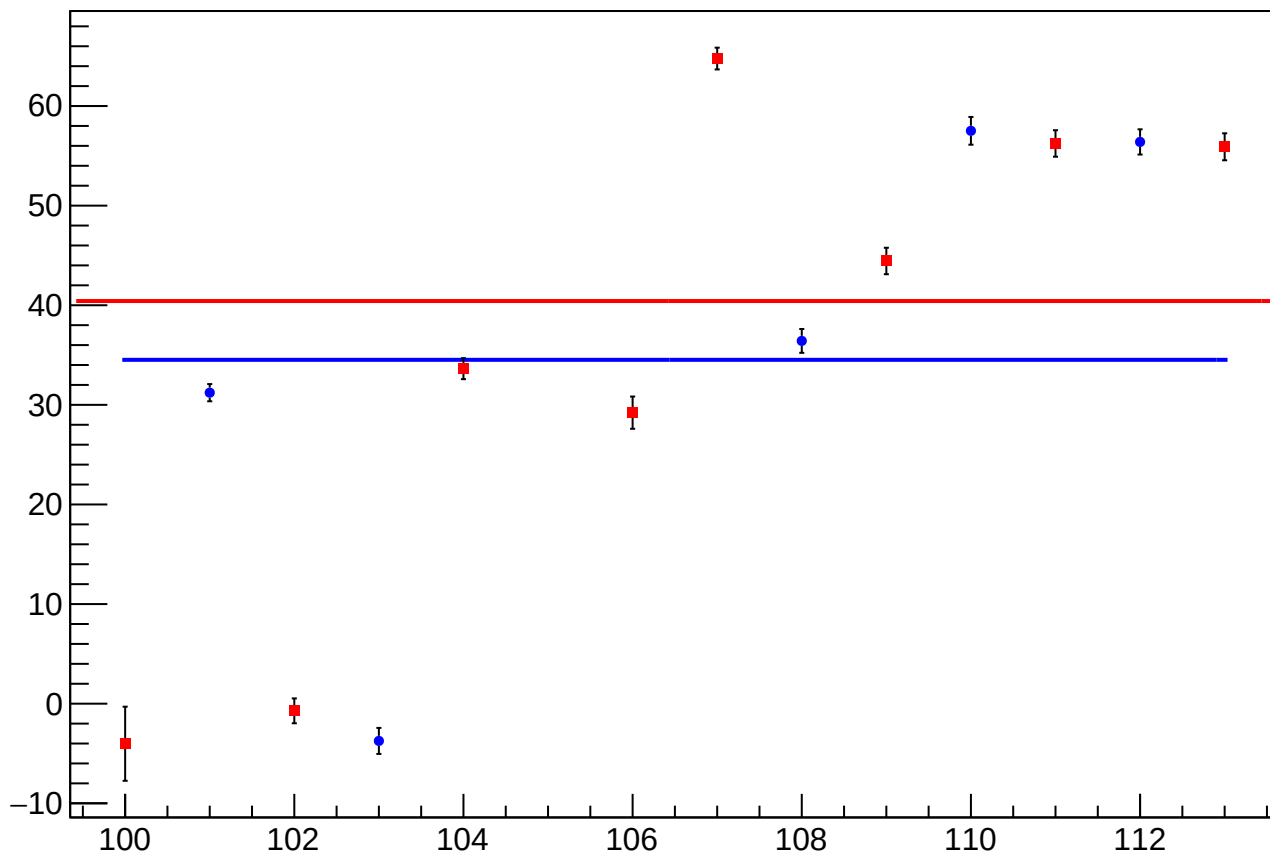
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.798 $\pm$ 0.270  $\chi^2$ /NDF: 359.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 34.521+/-0.516  $\chi^2/\text{NDF}$ : 1444.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 40.424+/-0.471  $\chi^2/\text{NDF}$ : 2098.0/7

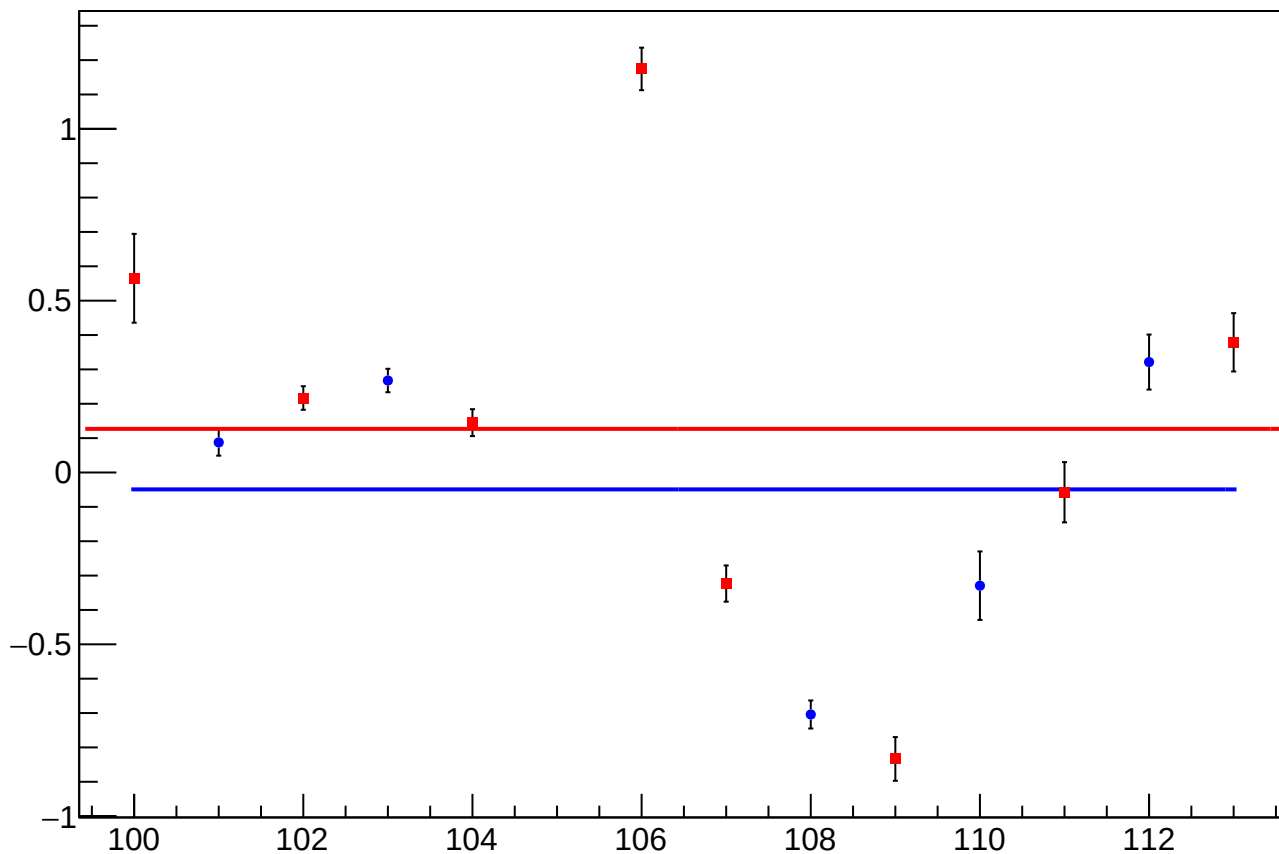
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.740+/-0.348  $\chi^2/\text{NDF}$ : 3614.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.049 $\pm$ 0.020  $\chi^2$ /NDF: 385.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.127 $\pm$ 0.019  $\chi^2$ /NDF: 619.4/7

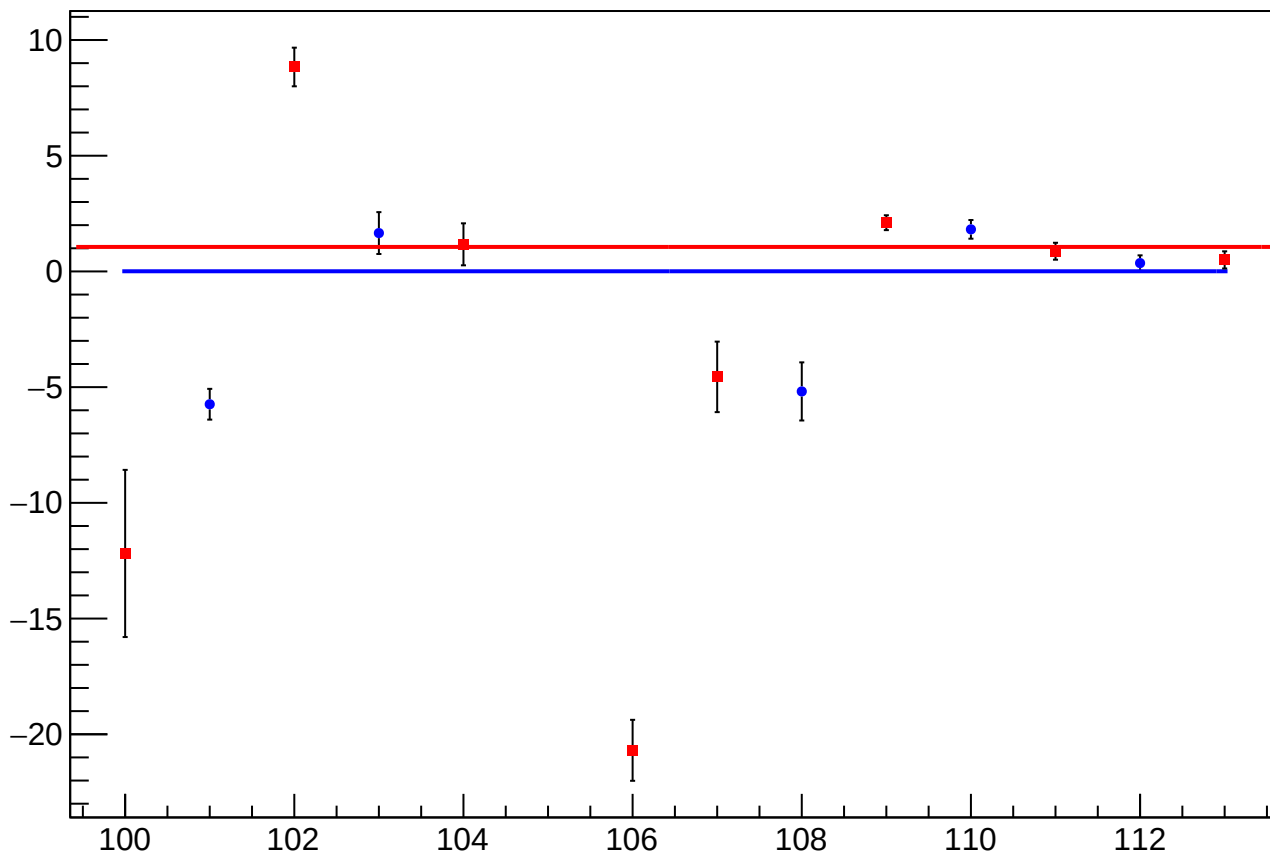
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.044 $\pm$ 0.014  $\chi^2$ /NDF: 1044.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.007 $\pm$ 0.228  $\chi^2$ /NDF: 116.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.059 $\pm$ 0.188  $\chi^2$ /NDF: 399.6/7

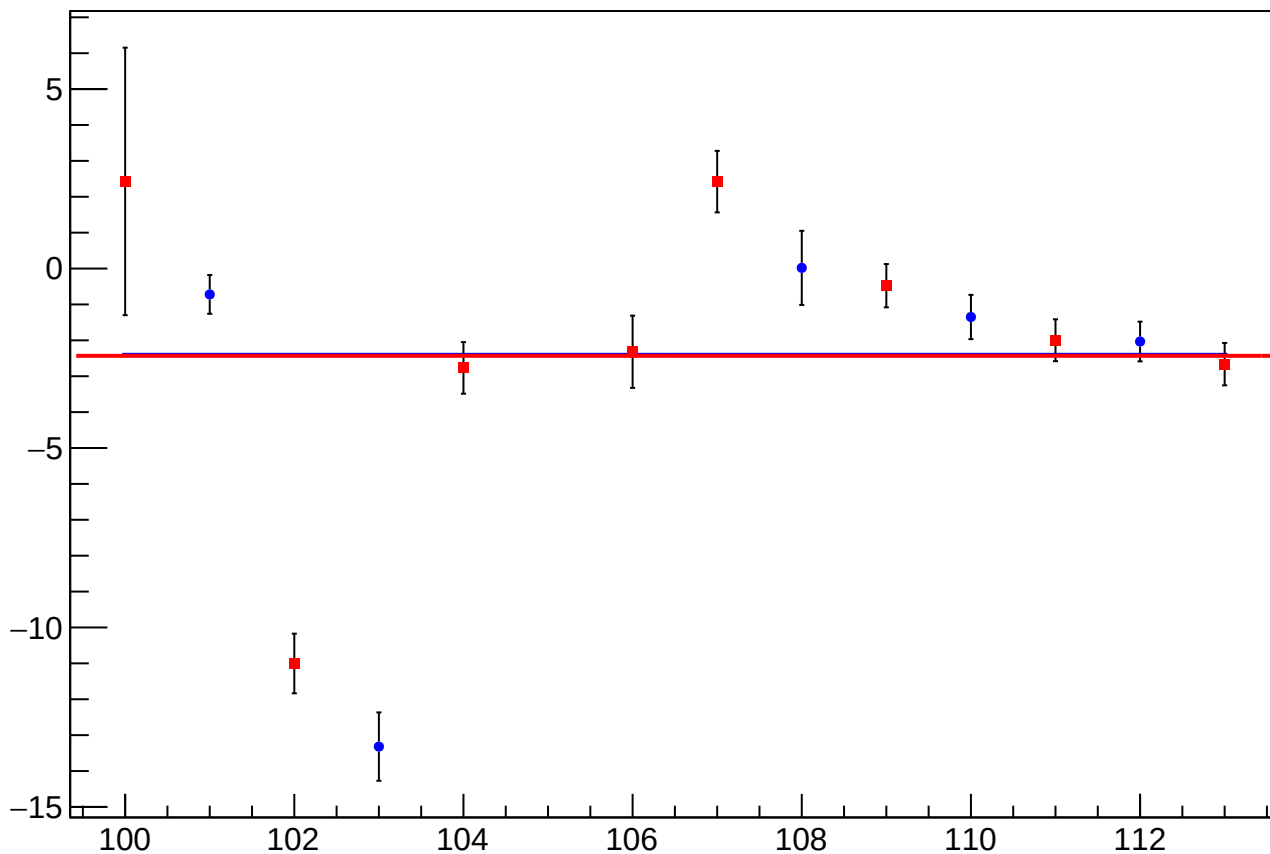
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.633 $\pm$ 0.145  $\chi^2$ /NDF: 528.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -2.404 $\pm$ 0.297  $\chi^2/\text{NDF}$ : 149.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.432 $\pm$ 0.264  $\chi^2/\text{NDF}$ : 151.5/7

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

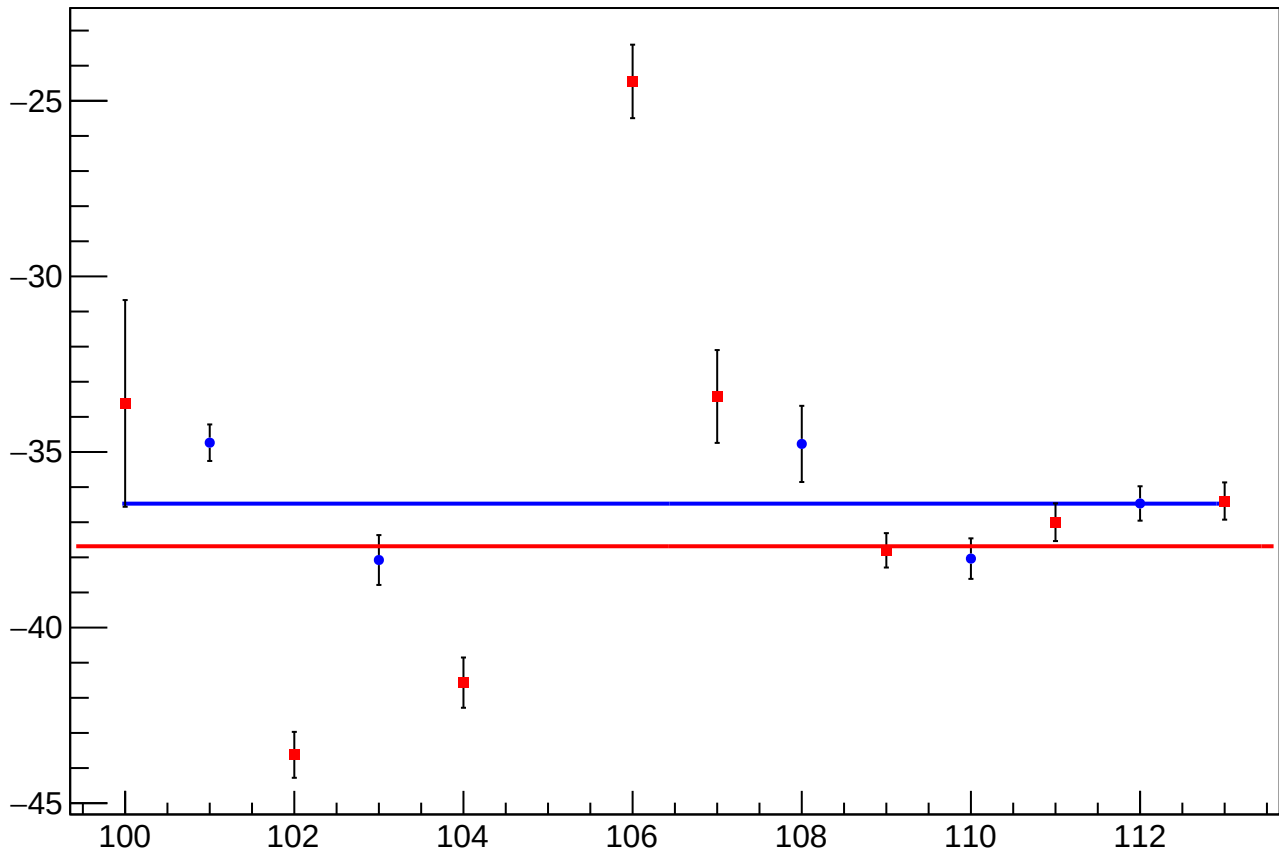
+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.420 $\pm$ 0.197  $\chi^2/\text{NDF}$ : 301.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -36.471+/-0.270  $\chi^2/\text{NDF}$ : 26.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -37.684+/-0.242  $\chi^2/\text{NDF}$ : 291.8/7

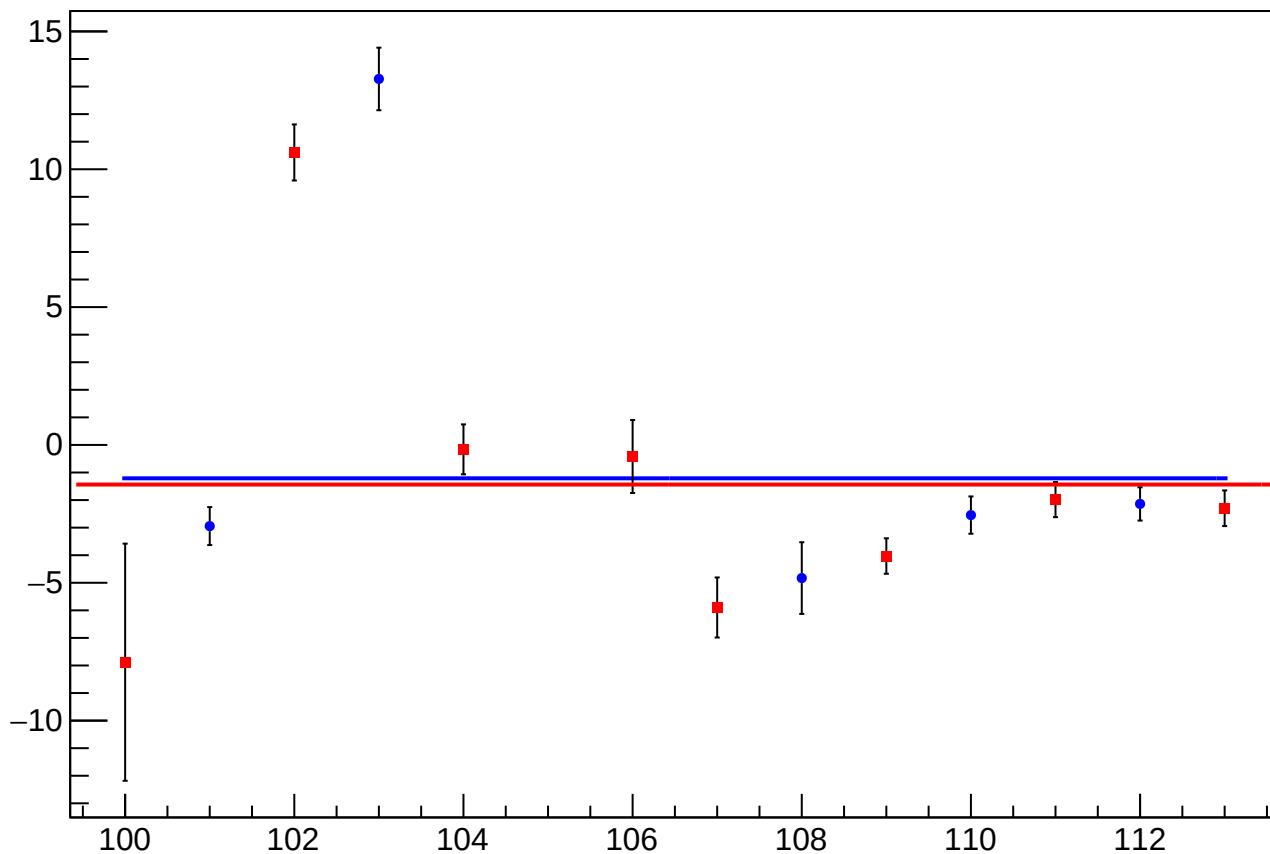
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -37.144+/-0.180  $\chi^2/\text{NDF}$ : 329.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -1.211+/-0.345  $\chi^2/\text{NDF}$ : 183.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.437+/-0.302  $\chi^2/\text{NDF}$ : 180.6/7

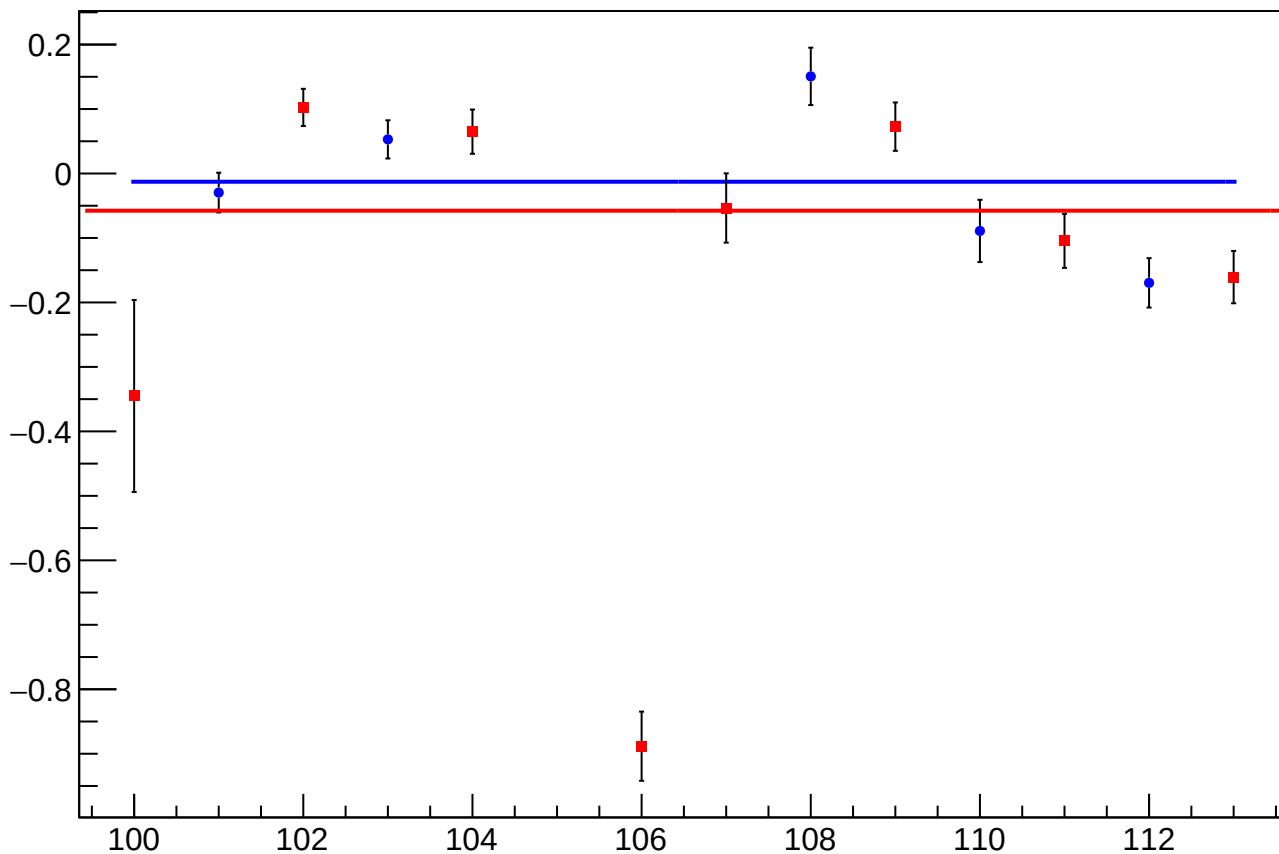
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.339+/-0.227  $\chi^2/\text{NDF}$ : 364.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.013 \pm 0.016$   $\chi^2/\text{NDF}$ : 38.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.058 \pm 0.015$   $\chi^2/\text{NDF}$ : 306.5/7

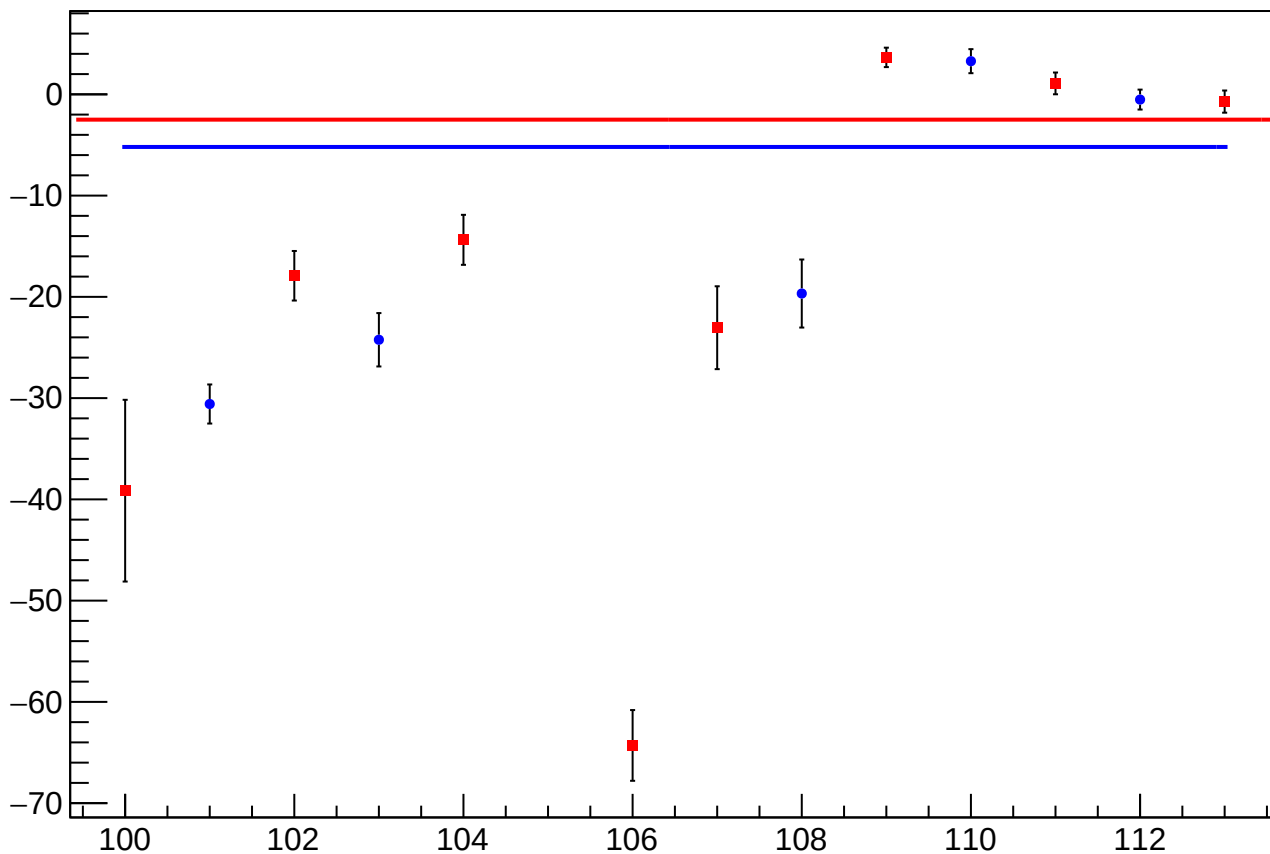
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.038 \pm 0.011$   $\chi^2/\text{NDF}$ : 348.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_2468\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -5.196+/-0.668  $\chi^2$ /NDF: 317.3/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2.499+/-0.553  $\chi^2$ /NDF: 472.6/7

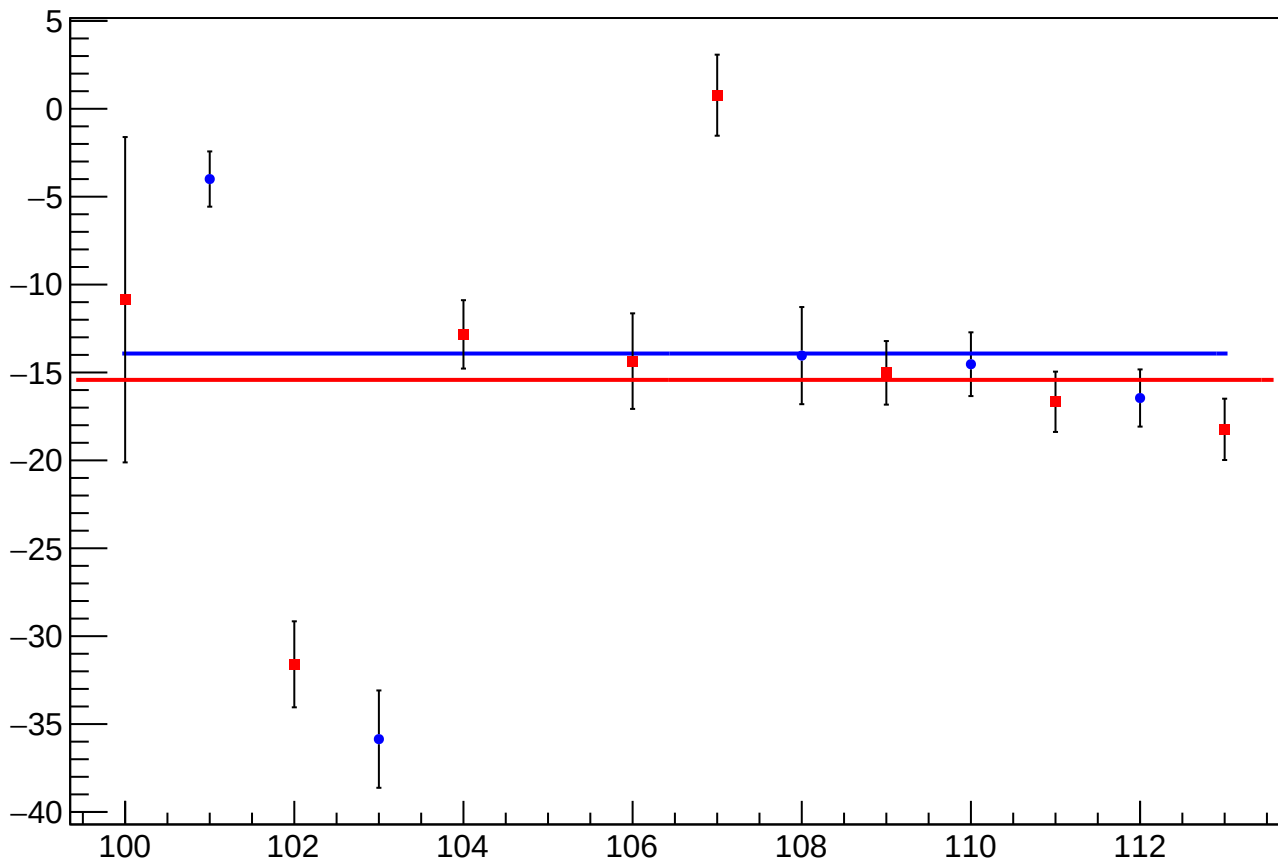
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -3.596+/-0.426  $\chi^2$ /NDF: 799.6/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-13.922 \pm 0.861$   $\chi^2/\text{NDF}$ : 105.2/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-15.421 \pm 0.758$   $\chi^2/\text{NDF}$ : 98.4/7

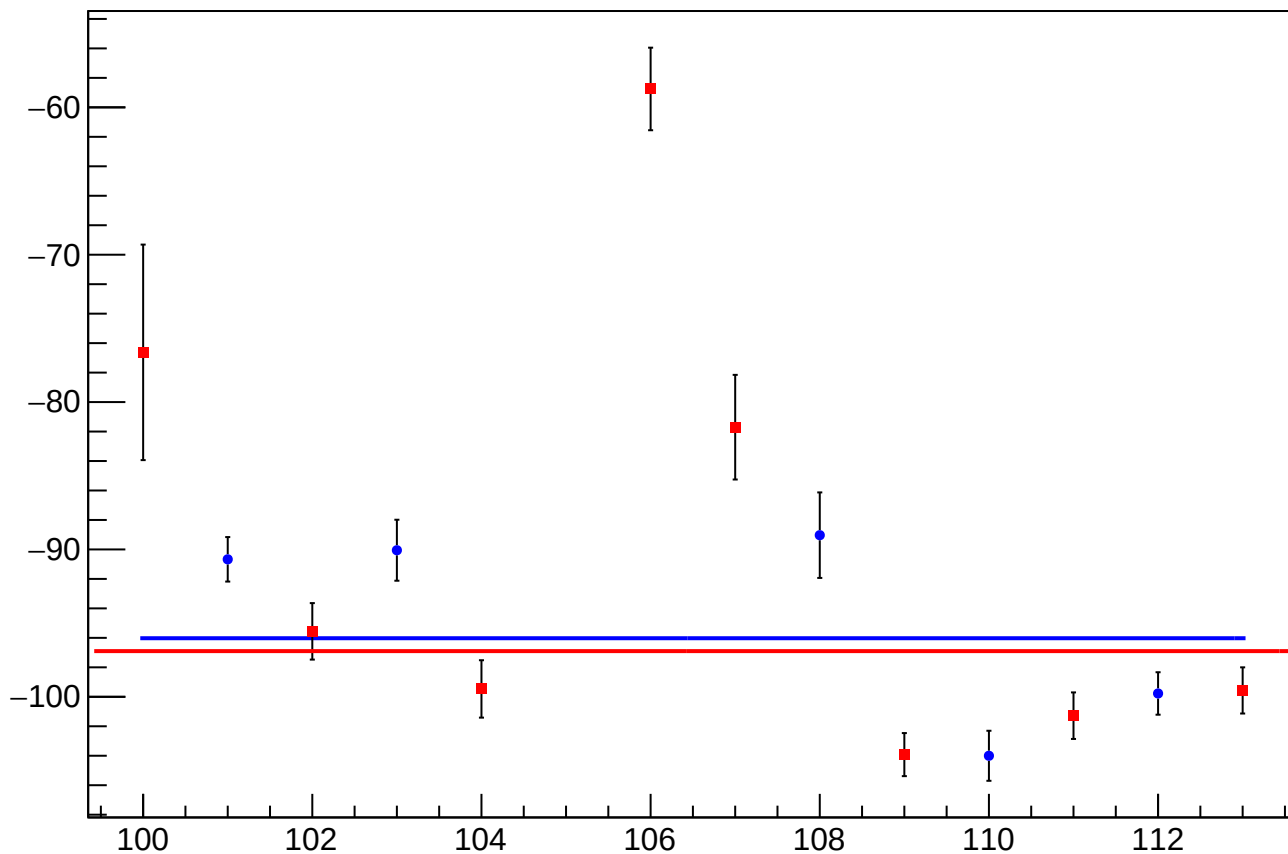
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-14.767 \pm 0.569$   $\chi^2/\text{NDF}$ : 205.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -96.025 $\pm$ 0.786  $\chi^2$ /NDF: 55.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -96.899 $\pm$ 0.701  $\chi^2$ /NDF: 247.3/7

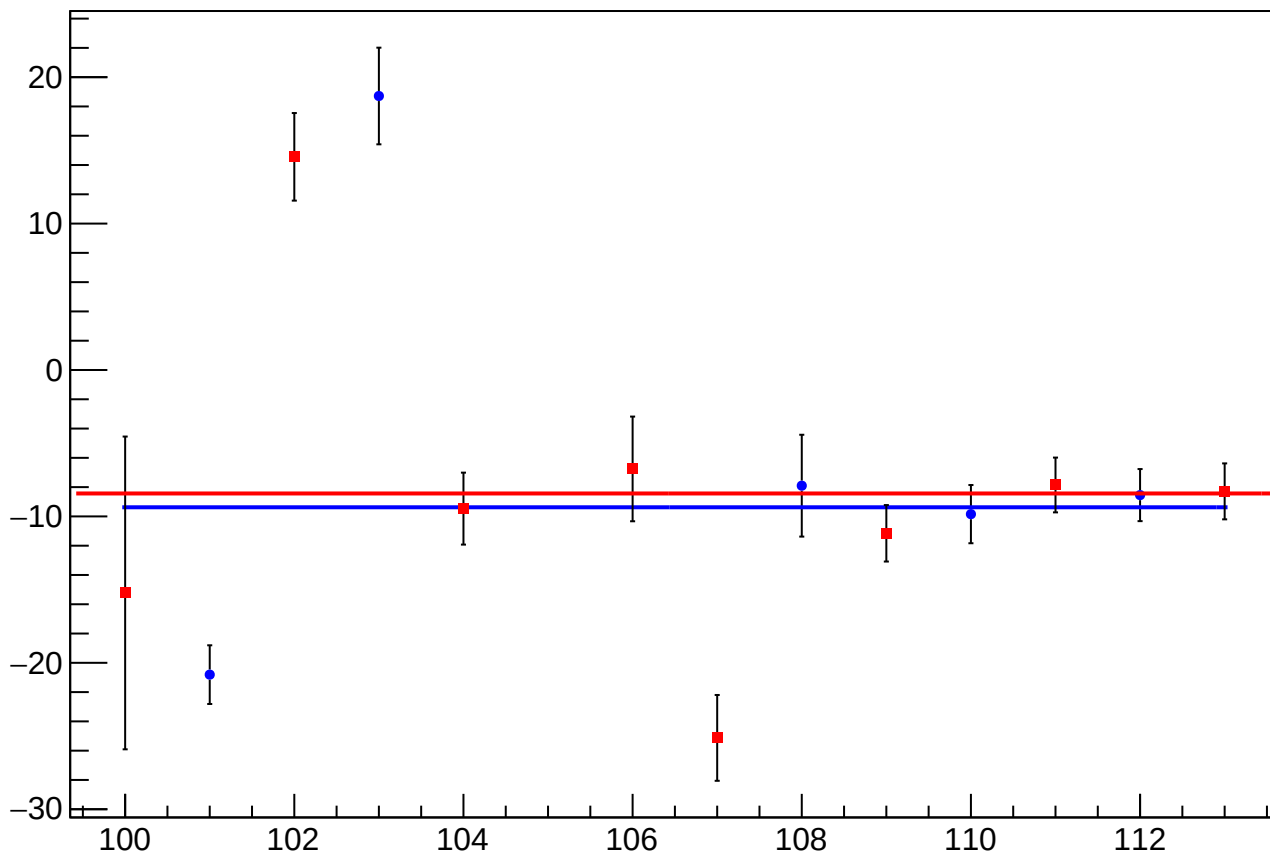
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -96.512 $\pm$ 0.523  $\chi^2$ /NDF: 303.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-9.377 \pm 1.004$   $\chi^2/\text{NDF}$ : 105.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-8.433 \pm 0.874$   $\chi^2/\text{NDF}$ : 94.4/7

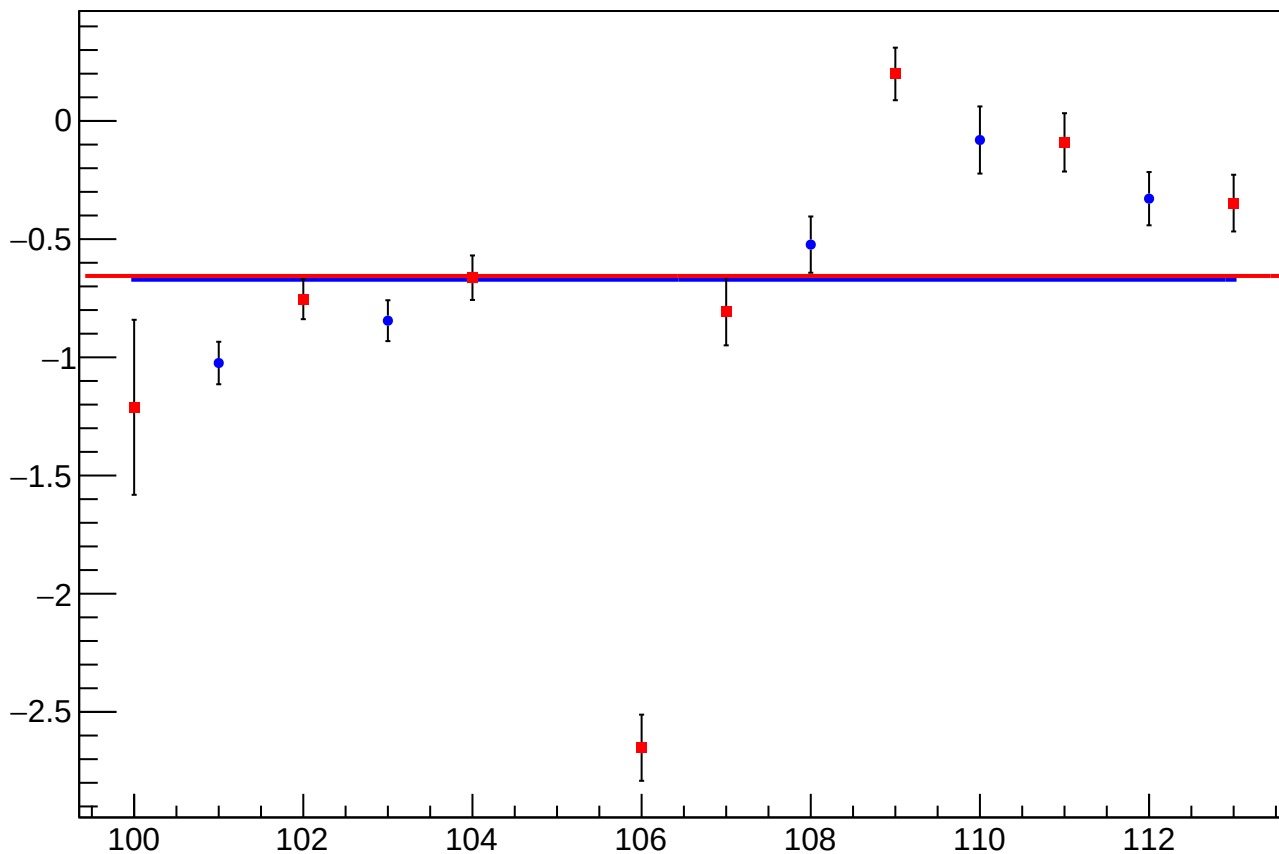
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-8.840 \pm 0.659$   $\chi^2/\text{NDF}$ : 200.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_2468\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.672 \pm 0.047$   $\chi^2/\text{NDF}: 47.5/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.656 \pm 0.042$   $\chi^2/\text{NDF}: 294.8/7$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

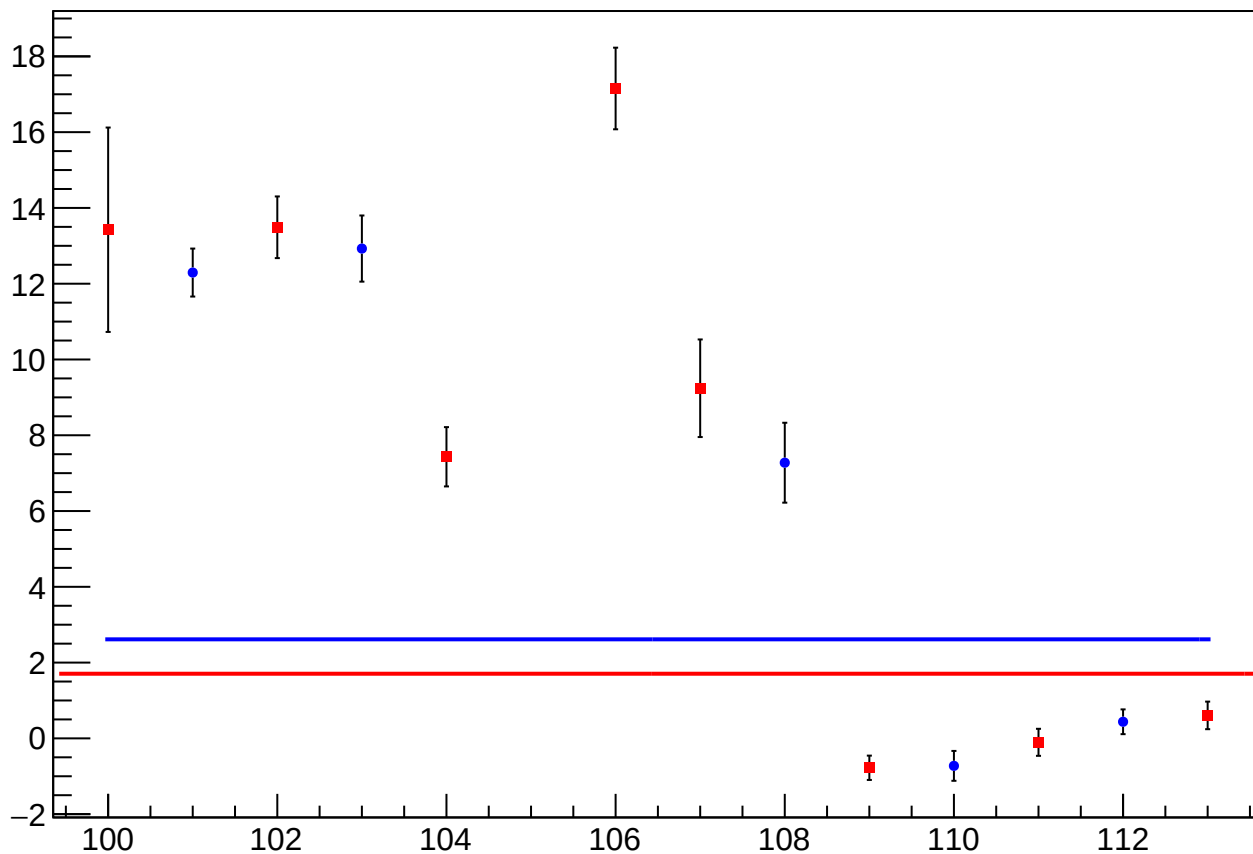
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.663 \pm 0.031$   $\chi^2/\text{NDF}: 342.3/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$



reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 2.614 $\pm$ 0.221  $\chi^2$ /NDF: 509.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.706 $\pm$ 0.183  $\chi^2$ /NDF: 616.6/7

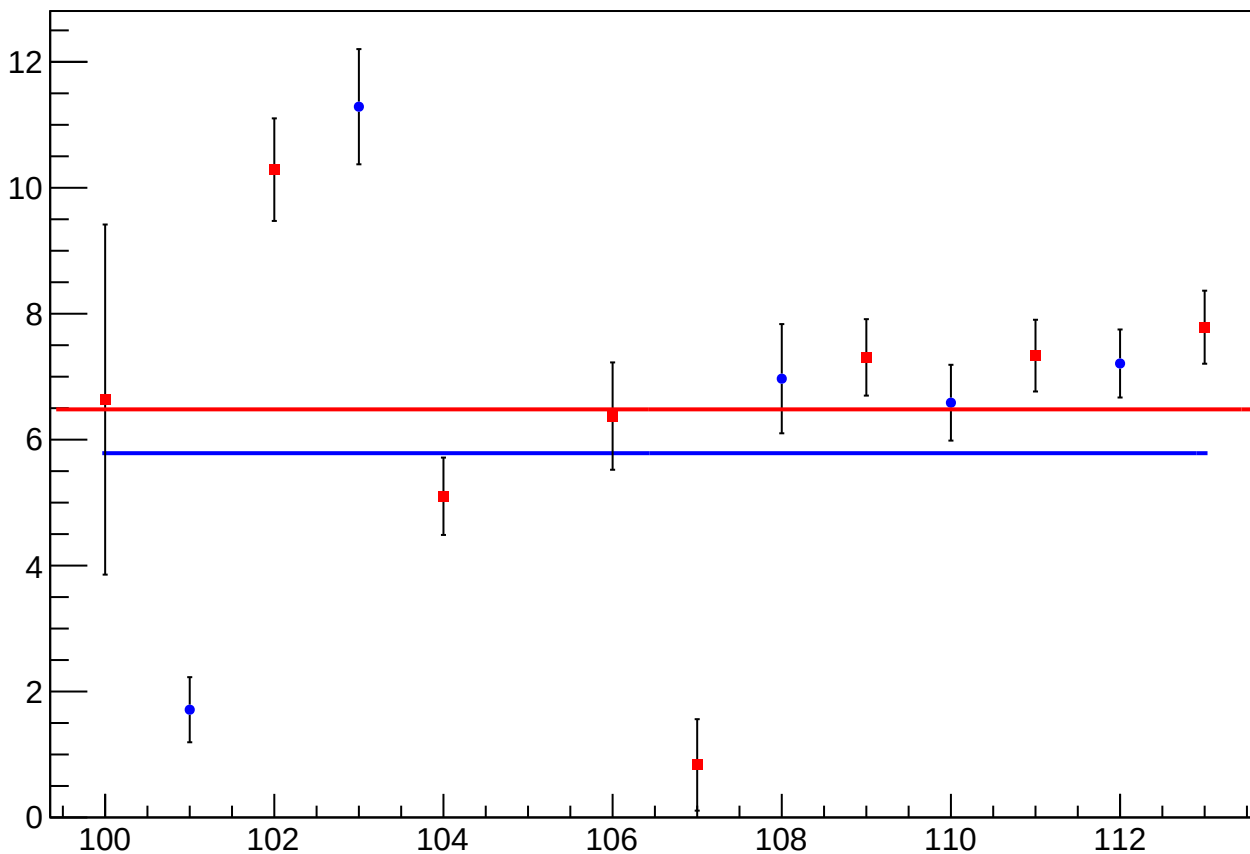
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.076 $\pm$ 0.141  $\chi^2$ /NDF: 1135.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 5.785 $\pm$ 0.283  $\chi^2$ /NDF: 108.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6.481 $\pm$ 0.247  $\chi^2$ /NDF: 96.5/7

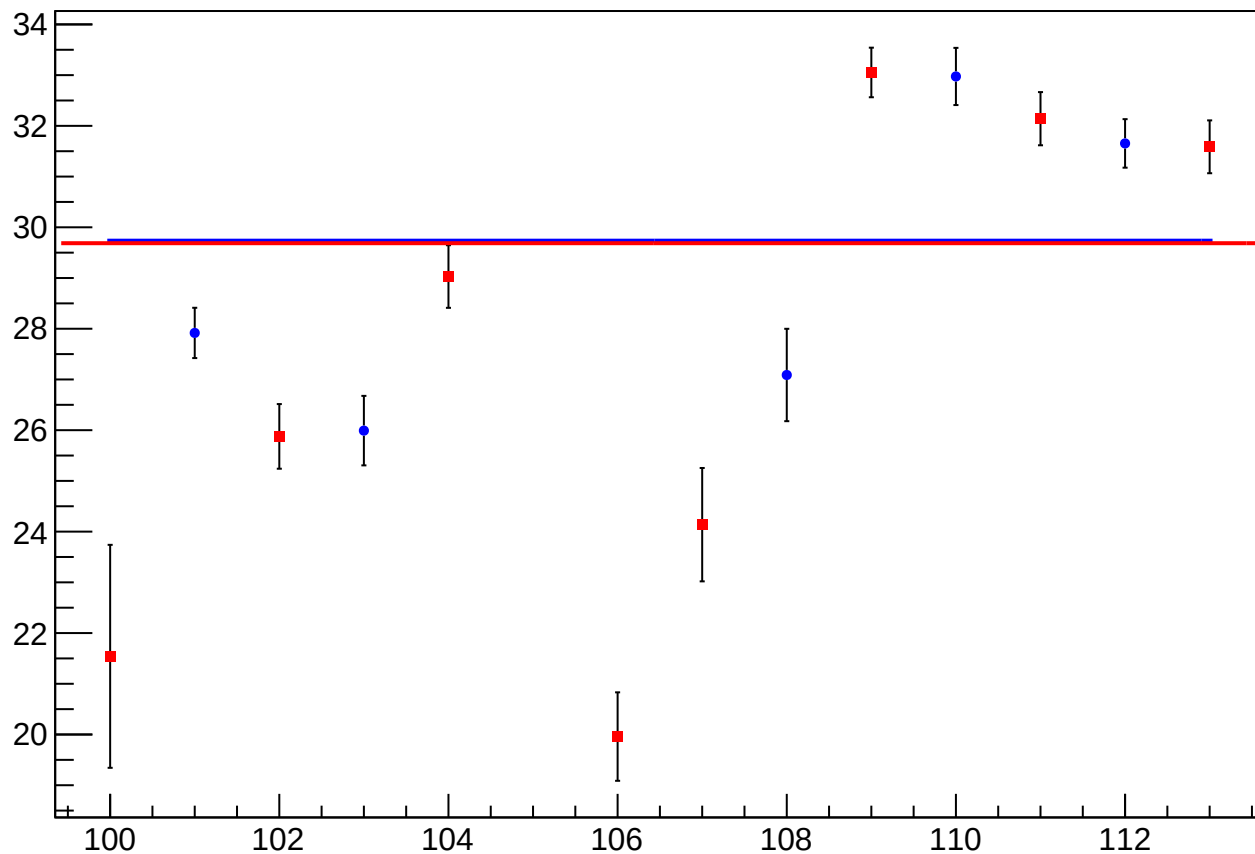
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.180 $\pm$ 0.186  $\chi^2$ /NDF: 208.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 29.736 $\pm$ 0.259  $\chi^2$ /NDF: 100.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 29.686 $\pm$ 0.230  $\chi^2$ /NDF: 282.3/7

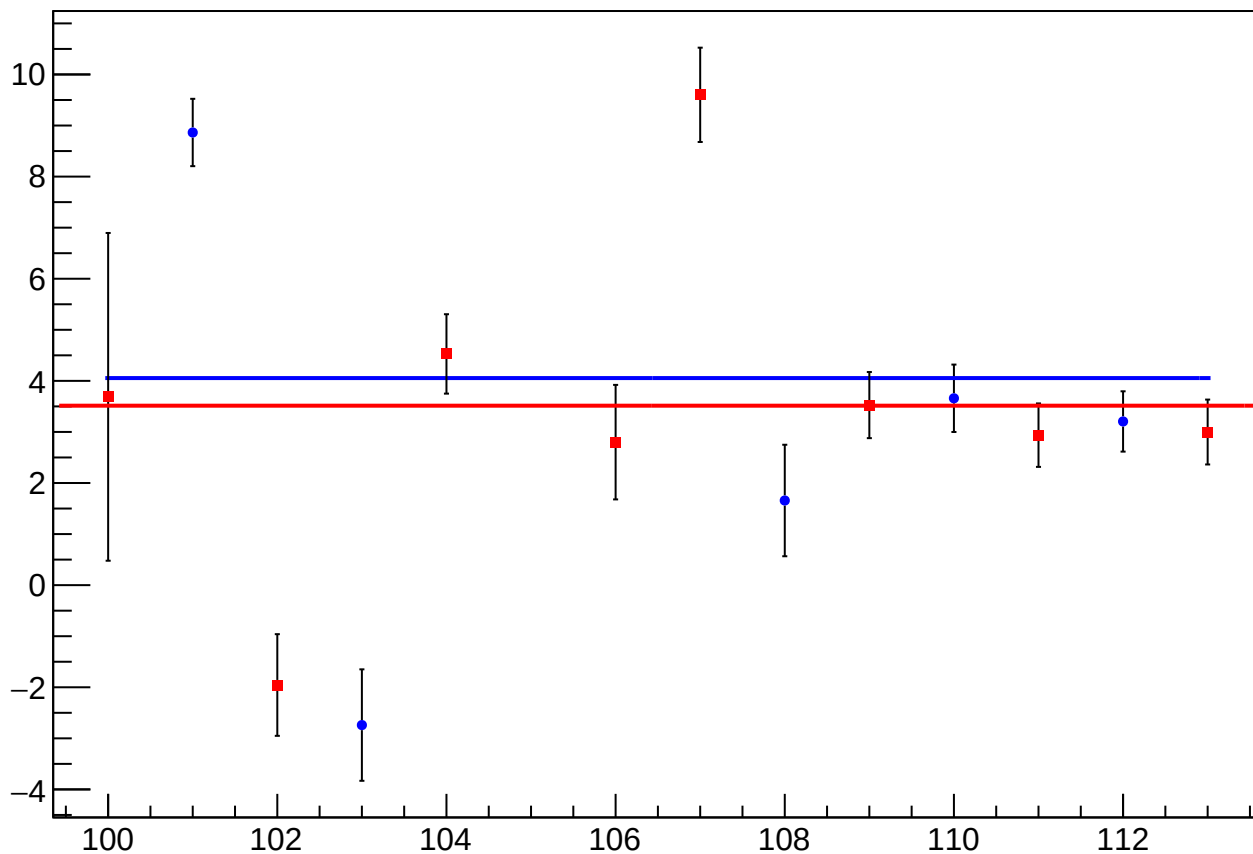
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 29.708 $\pm$ 0.172  $\chi^2$ /NDF: 383.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 4.055 $\pm$ 0.331  $\chi^2$ /NDF: 99.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.514 $\pm$ 0.286  $\chi^2$ /NDF: 77.3/7

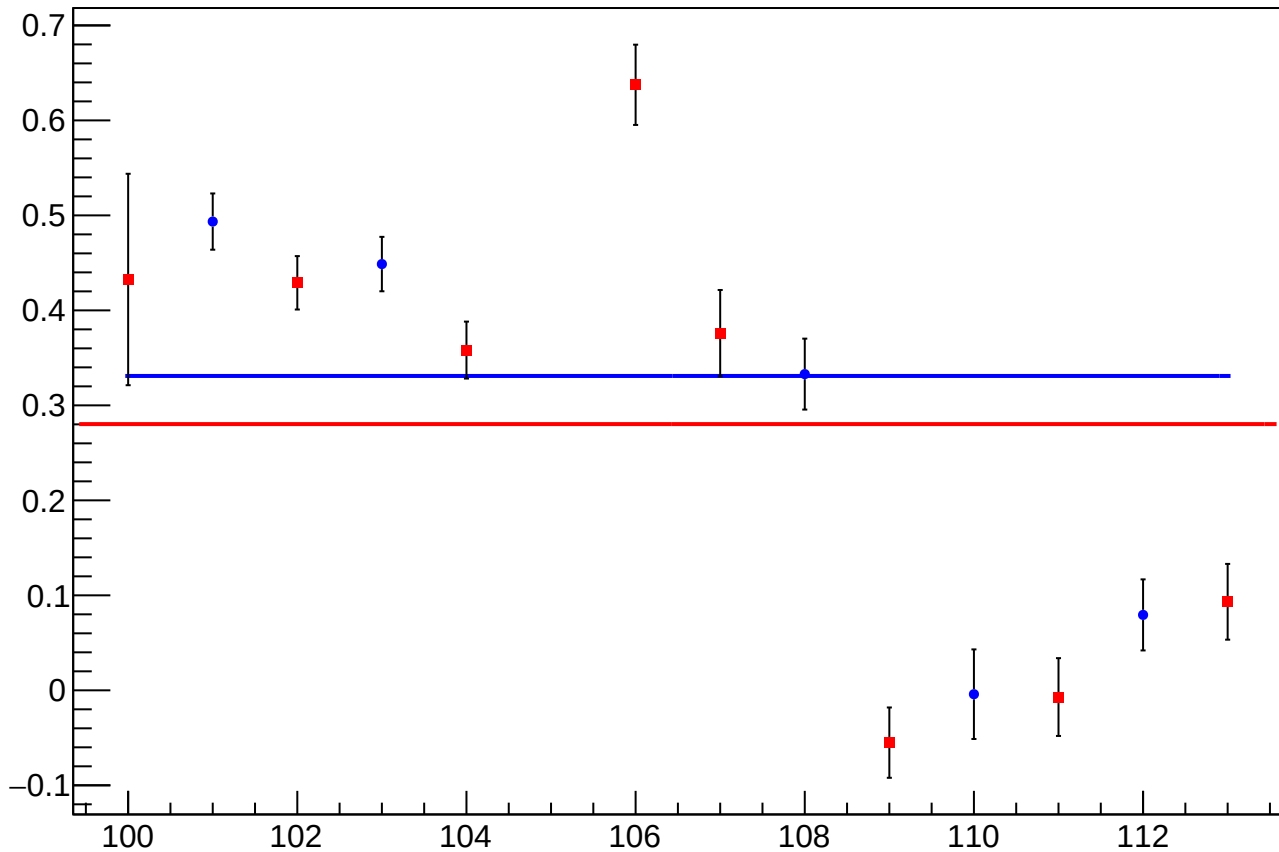
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.746 $\pm$ 0.217  $\chi^2$ /NDF: 178.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.331 $\pm$ 0.015  $\chi^2$ /NDF: 142.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.280 $\pm$ 0.014  $\chi^2$ /NDF: 265.8/7

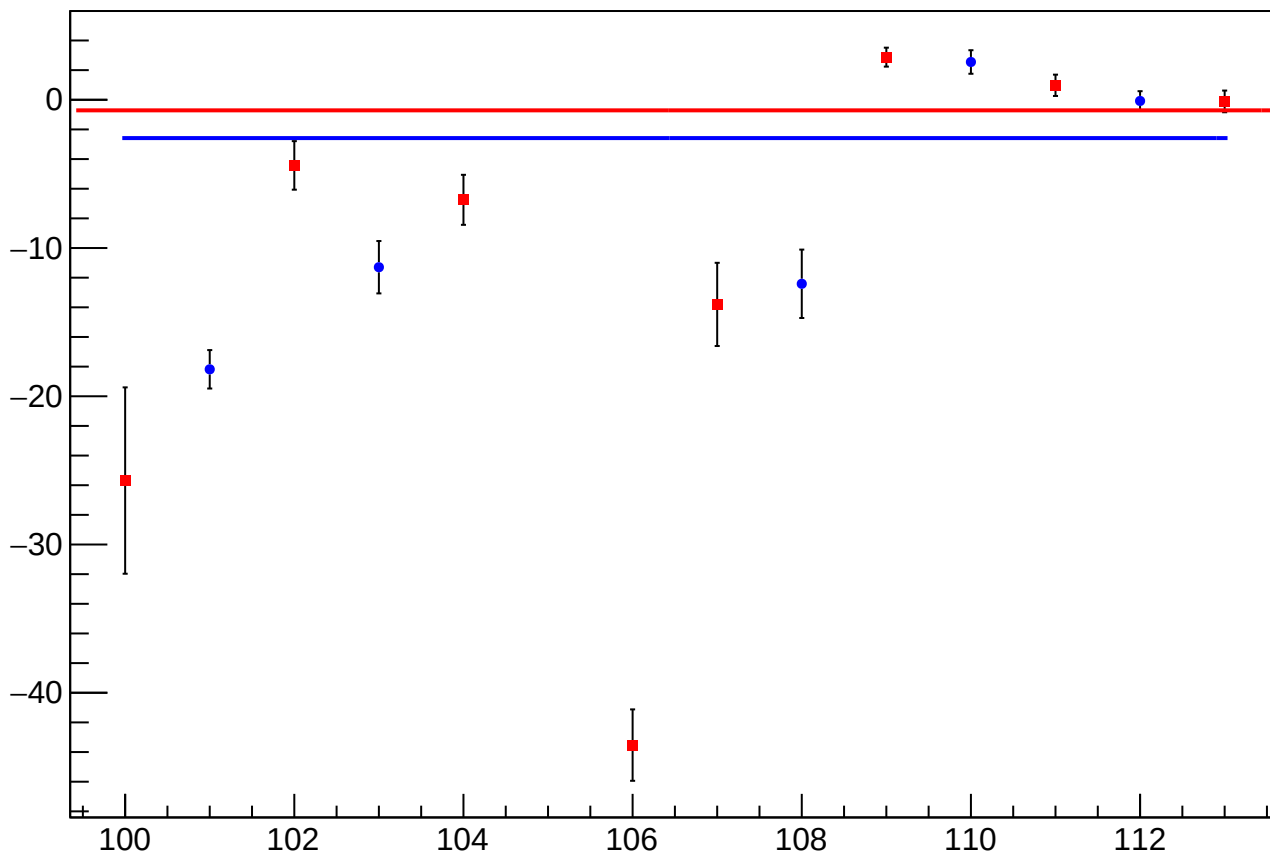
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.302 $\pm$ 0.010  $\chi^2$ /NDF: 414.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -2.584+/-0.447  $\chi^2$ /NDF: 243.4/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.713+/-0.370  $\chi^2$ /NDF: 409.3/7

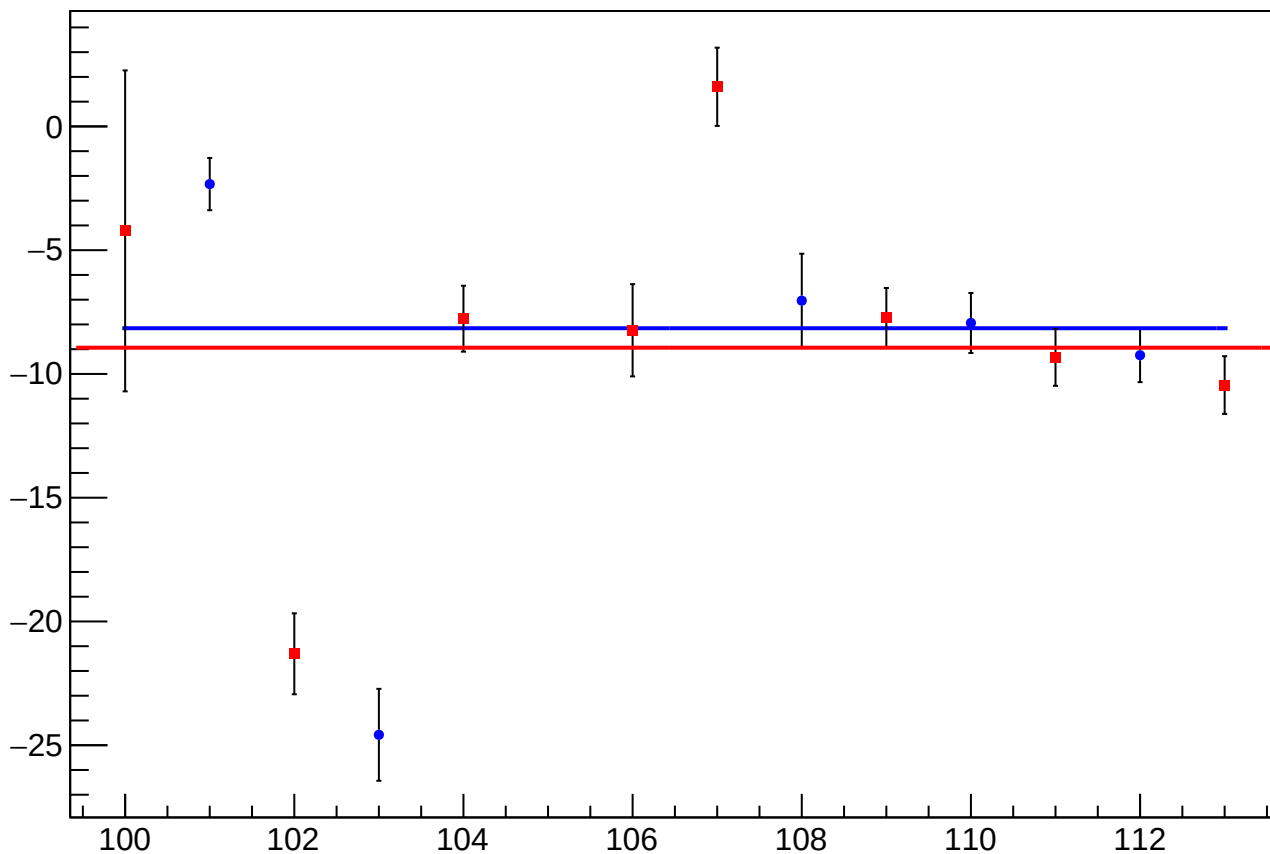
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1.473+/-0.285  $\chi^2$ /NDF: 663.1/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -8.153 $\pm$ 0.578  $\chi^2$ /NDF: 110.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.940 $\pm$ 0.511  $\chi^2$ /NDF: 105.9/7

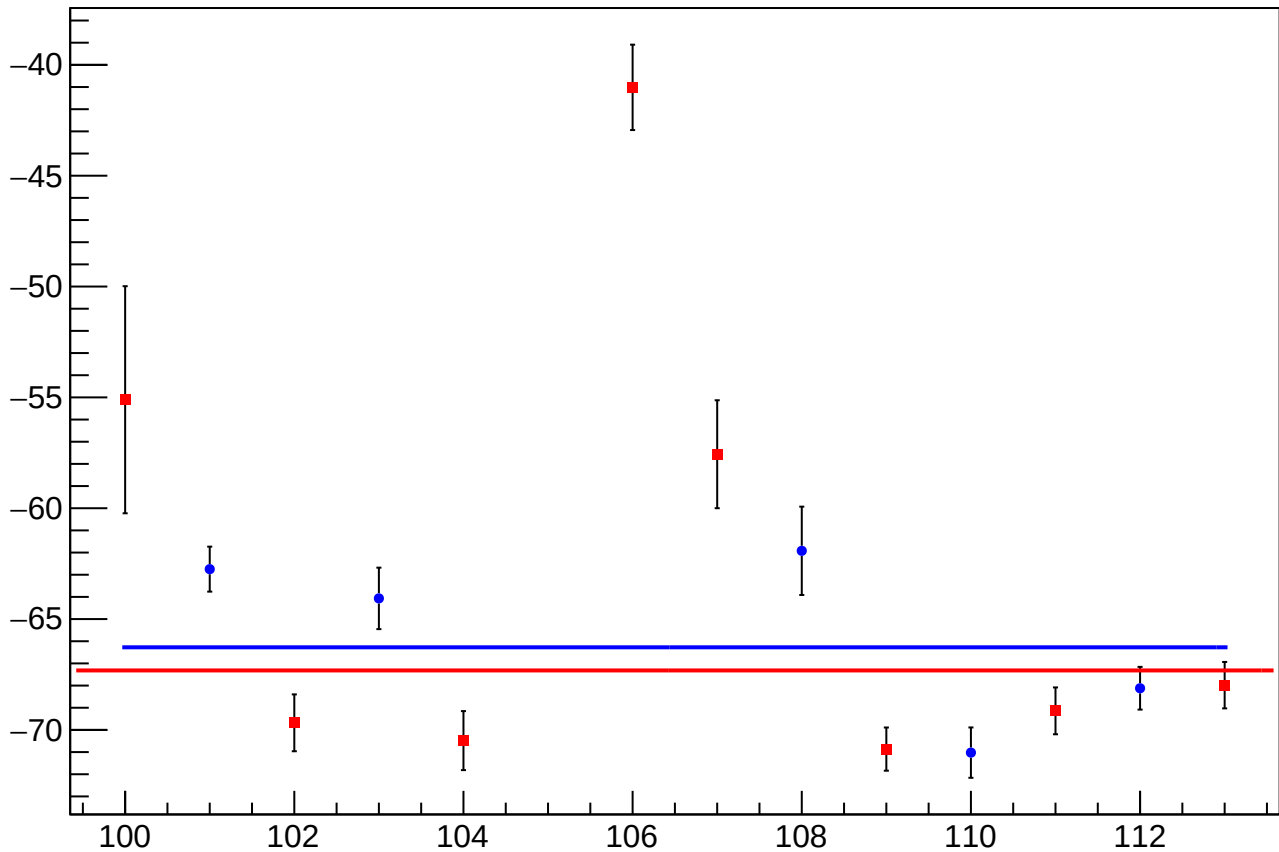
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -8.595 $\pm$ 0.383  $\chi^2$ /NDF: 217.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -66.274+/-0.527  $\chi^2/\text{NDF}$ : 40.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -67.317+/-0.471  $\chi^2/\text{NDF}$ : 234.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

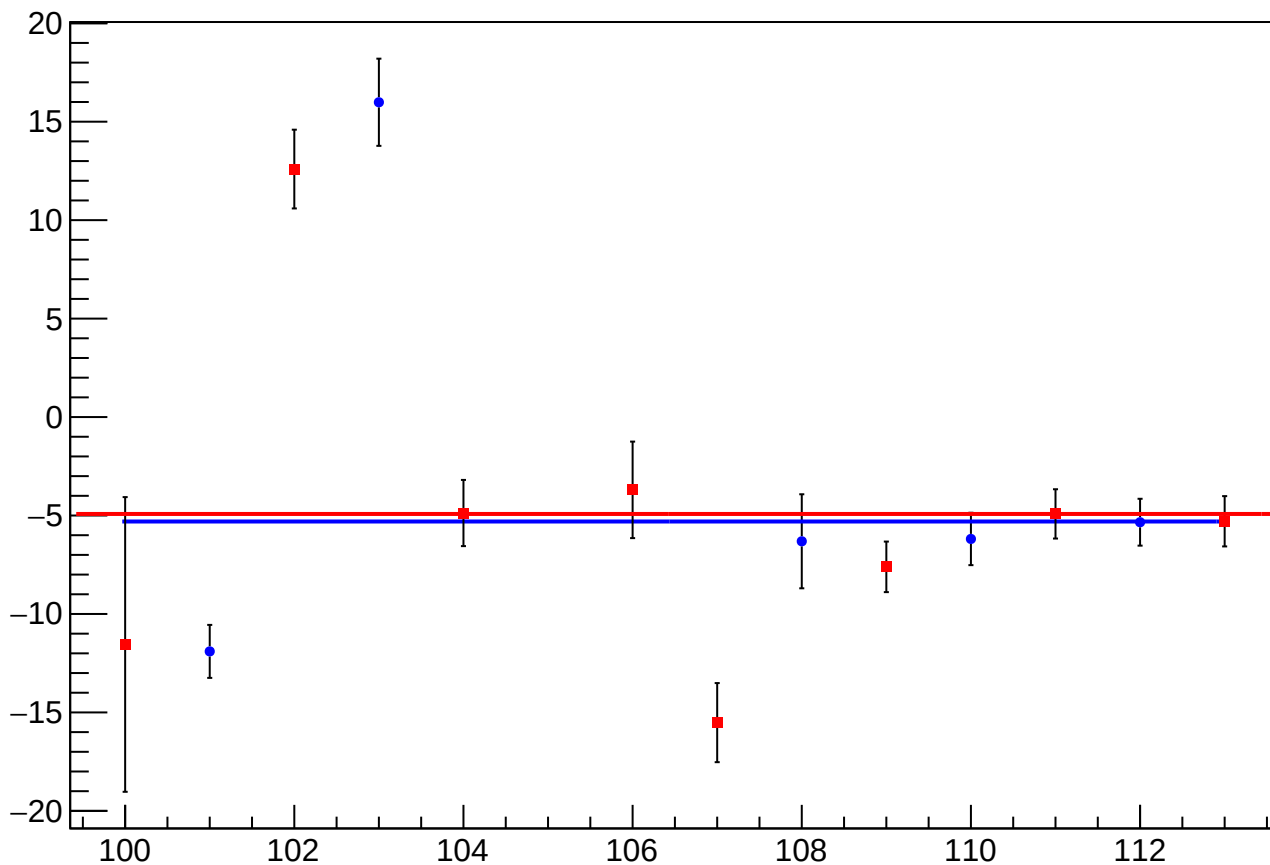
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -66.854+/-0.351  $\chi^2/\text{NDF}$ : 276.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-5.304 \pm 0.674$   $\chi^2/\text{NDF}$ : 117.2/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.921 \pm 0.588$   $\chi^2/\text{NDF}$ : 110.0/7

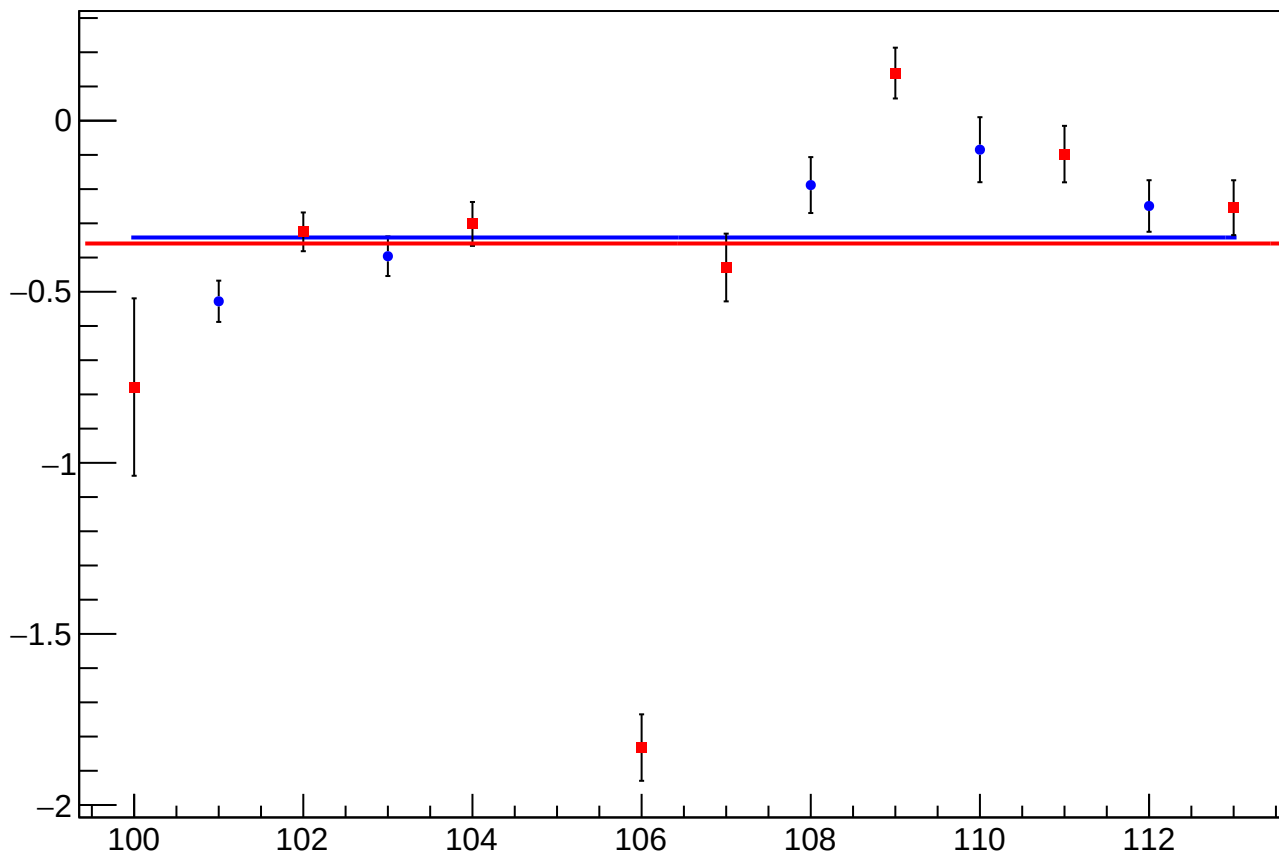
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.087 \pm 0.443$   $\chi^2/\text{NDF}$ : 227.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.341 \pm 0.031$   $\chi^2/\text{NDF}$ : 22.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.359 \pm 0.028$   $\chi^2/\text{NDF}$ : 291.1/7

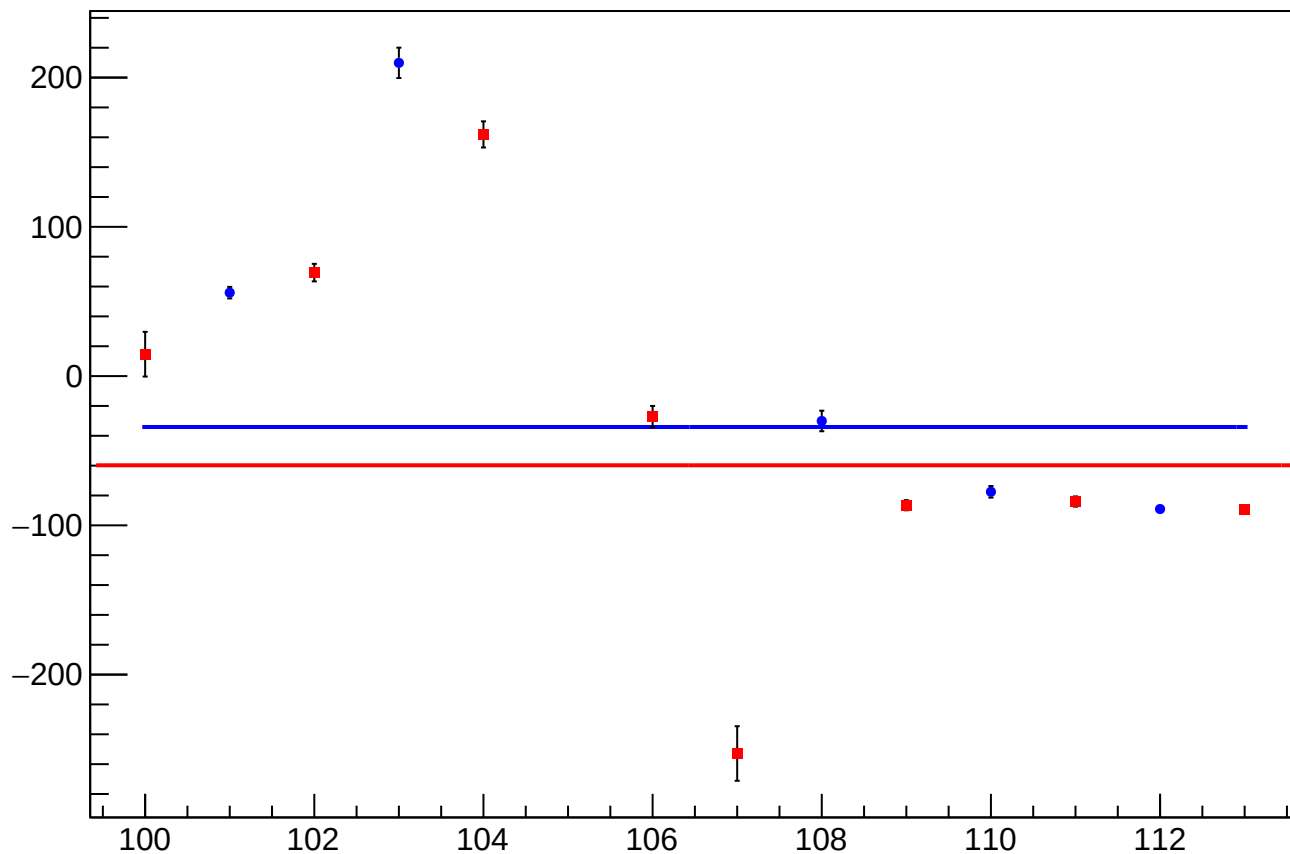
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.351 \pm 0.021$   $\chi^2/\text{NDF}$ : 314.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug



Right In: -34.103+/-1.939  $\chi^2/\text{NDF}$ : 1550.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -59.767+/-1.742  $\chi^2/\text{NDF}$ : 1472.0/7

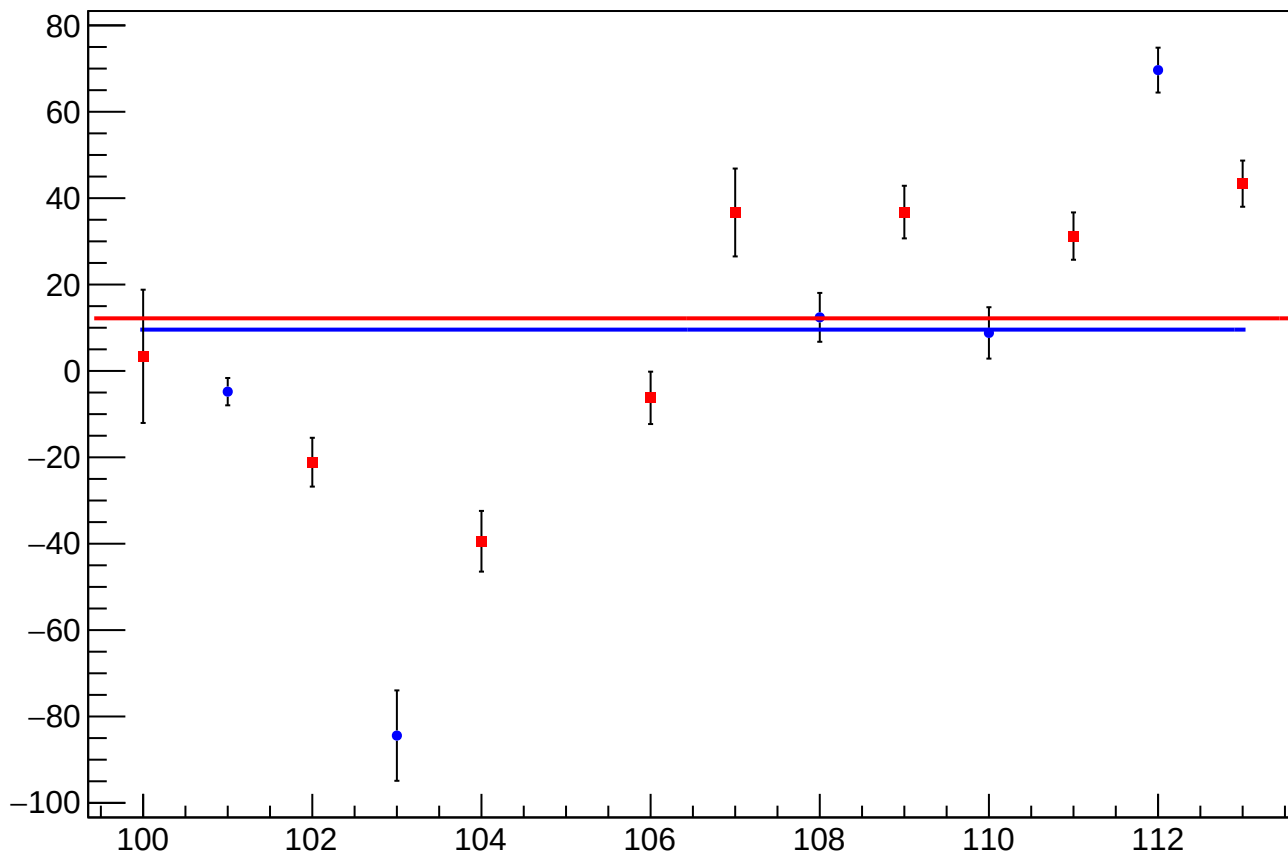
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -48.310+/-1.296  $\chi^2/\text{NDF}$ : 3119.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug



Right In: 9.565 $\pm$ 2.205  $\chi^2$ /NDF: 235.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 12.179 $\pm$ 2.307  $\chi^2$ /NDF: 166.4/7

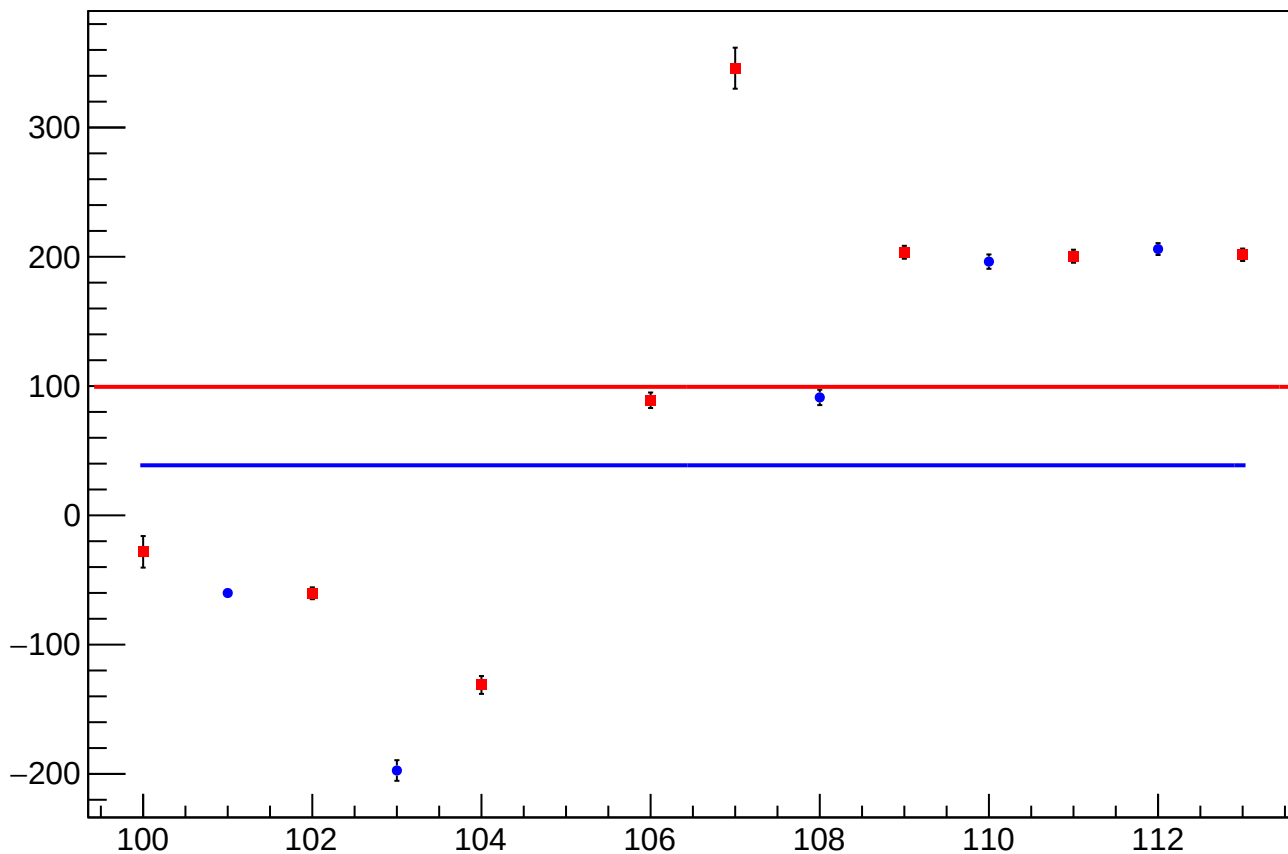
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.813 $\pm$ 1.594  $\chi^2$ /NDF: 402.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug



Right In: 38.715 $\pm$ 2.071  $\chi^2$ /NDF: 4152.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 99.403 $\pm$ 2.087  $\chi^2$ /NDF: 3965.9/7

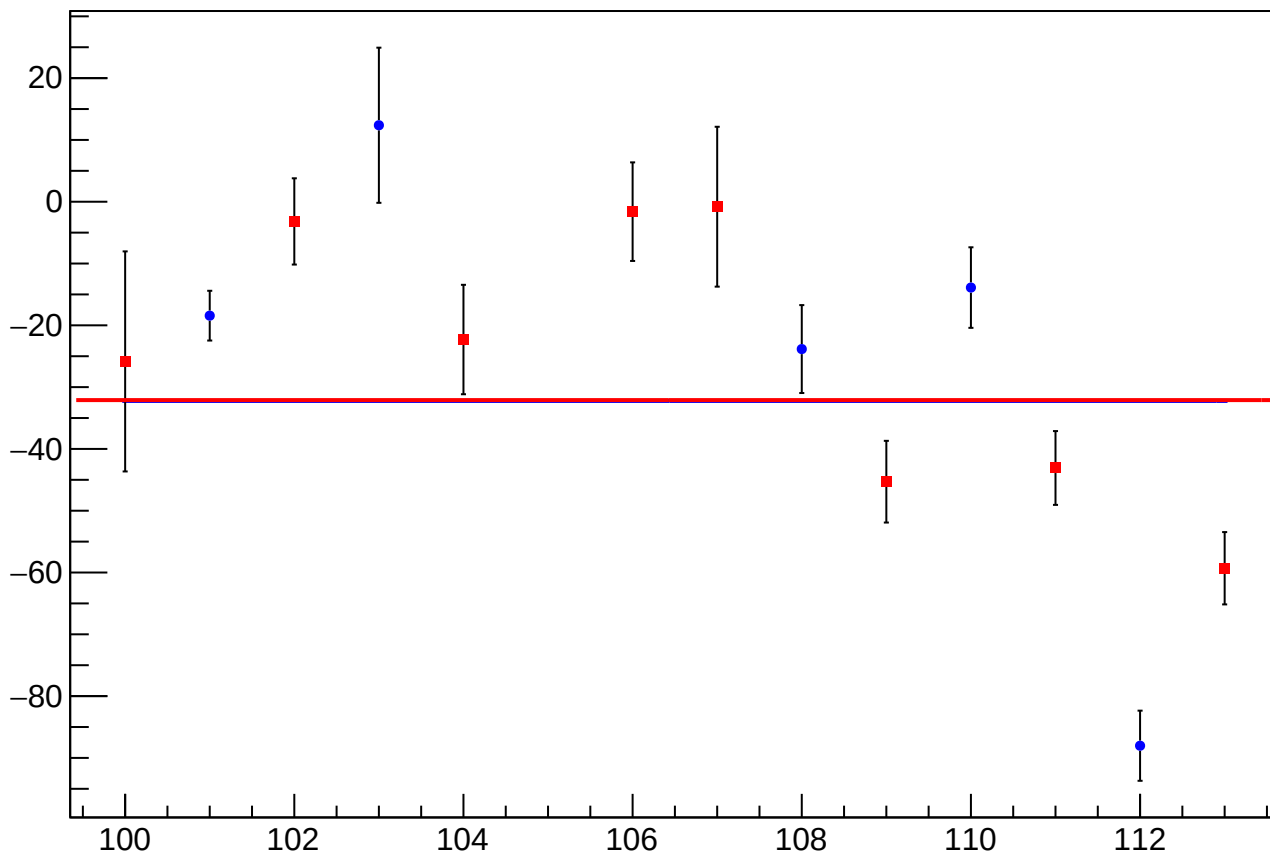
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 68.827 $\pm$ 1.470  $\chi^2$ /NDF: 8544.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug



Right In: -32.235+/-2.650  $\chi^2/\text{NDF}$ : 130.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32.100+/-2.689  $\chi^2/\text{NDF}$ : 68.0/7

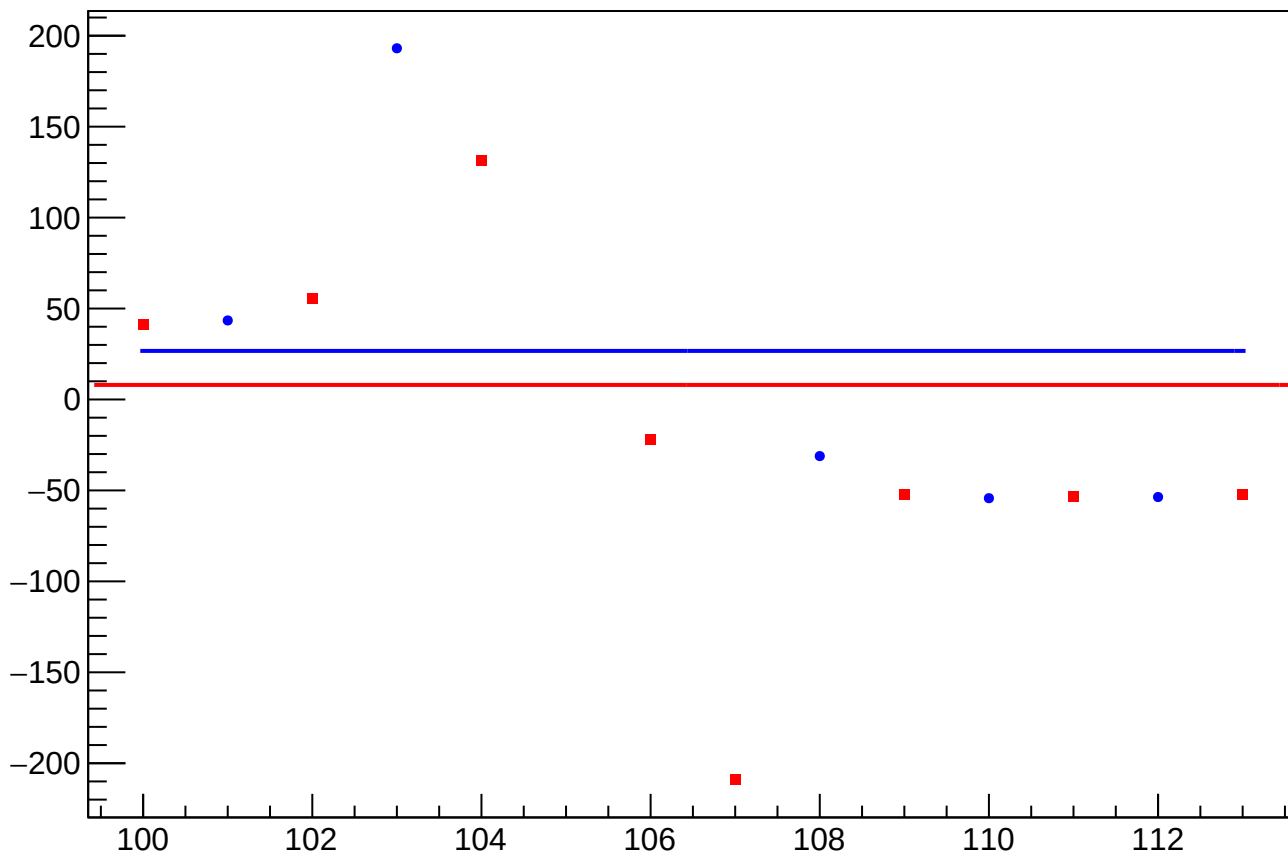
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.168+/-1.888  $\chi^2/\text{NDF}$ : 198.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug



Right In: 26.707 $\pm$ 0.120  $\chi^2$ /NDF: 391709.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7.999 $\pm$ 0.117  $\chi^2$ /NDF: 397747.9/7

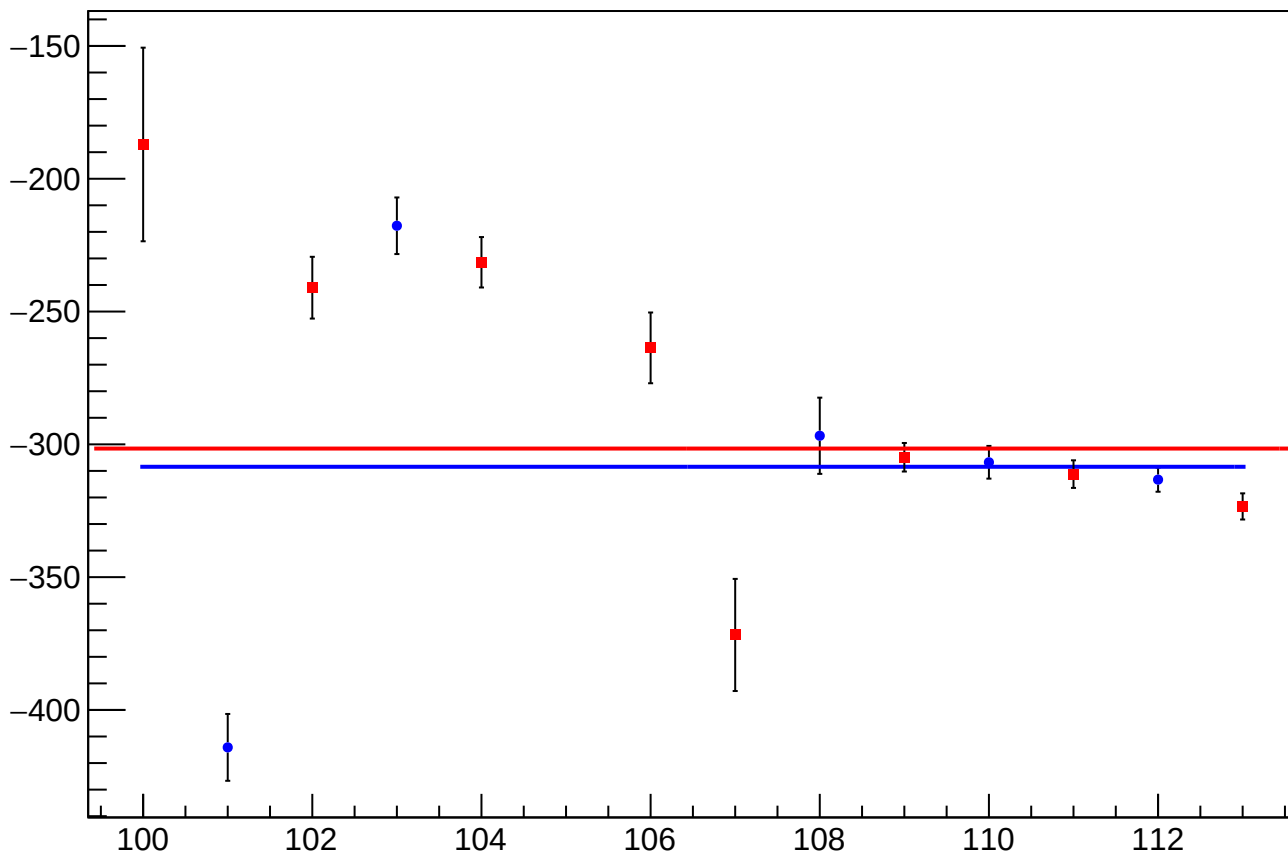
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.103 $\pm$ 0.084  $\chi^2$ /NDF: 801908.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug



Right In:  $-308.446 \pm 3.251$   $\chi^2/\text{NDF}$ : 144.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-301.584 \pm 2.672$   $\chi^2/\text{NDF}$ : 134.1/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

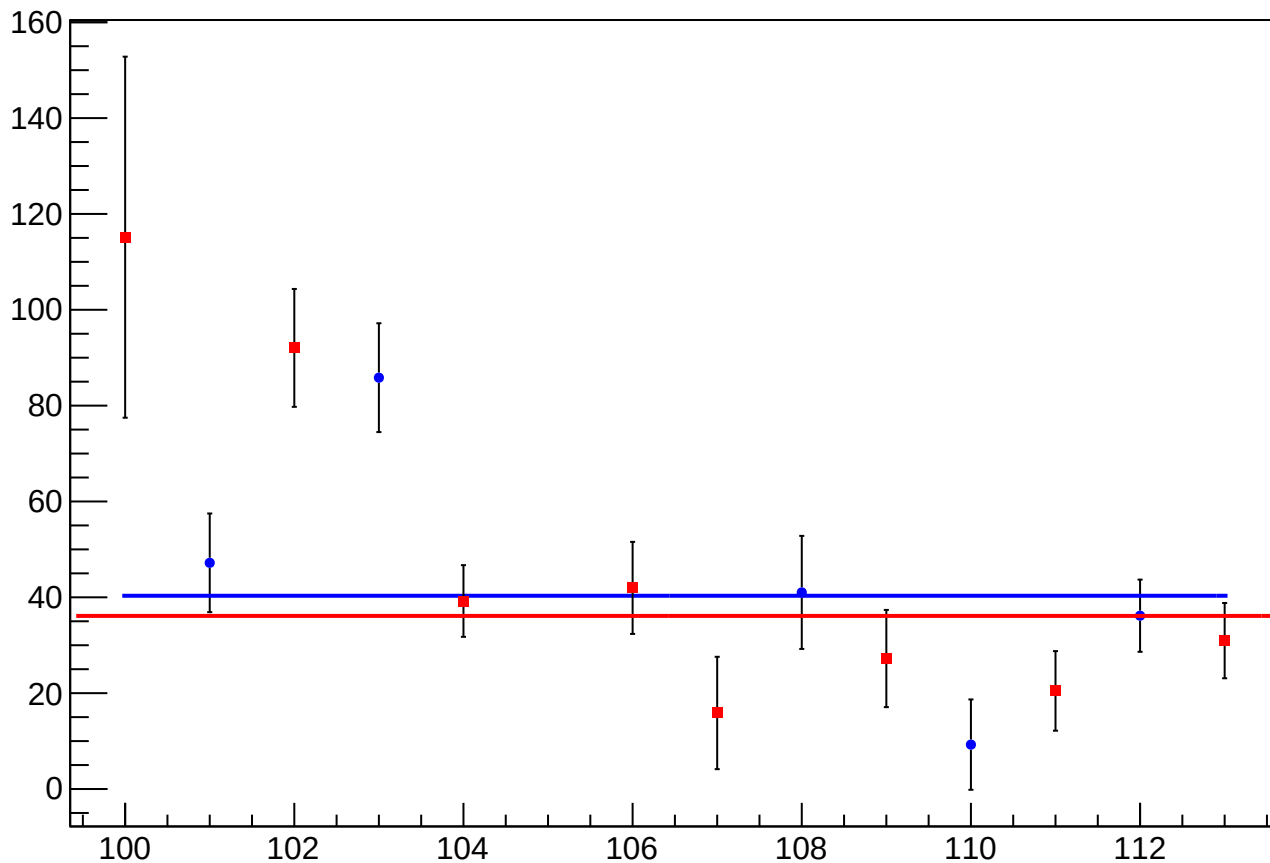
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-304.351 \pm 2.064$   $\chi^2/\text{NDF}$ : 281.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl2\_diff\_bpm4aY\_slope vs Slug



Right In: 40.325+/-4.333  $\chi^2/\text{NDF}$ : 27.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.121+/-3.456  $\chi^2/\text{NDF}$ : 33.4/7

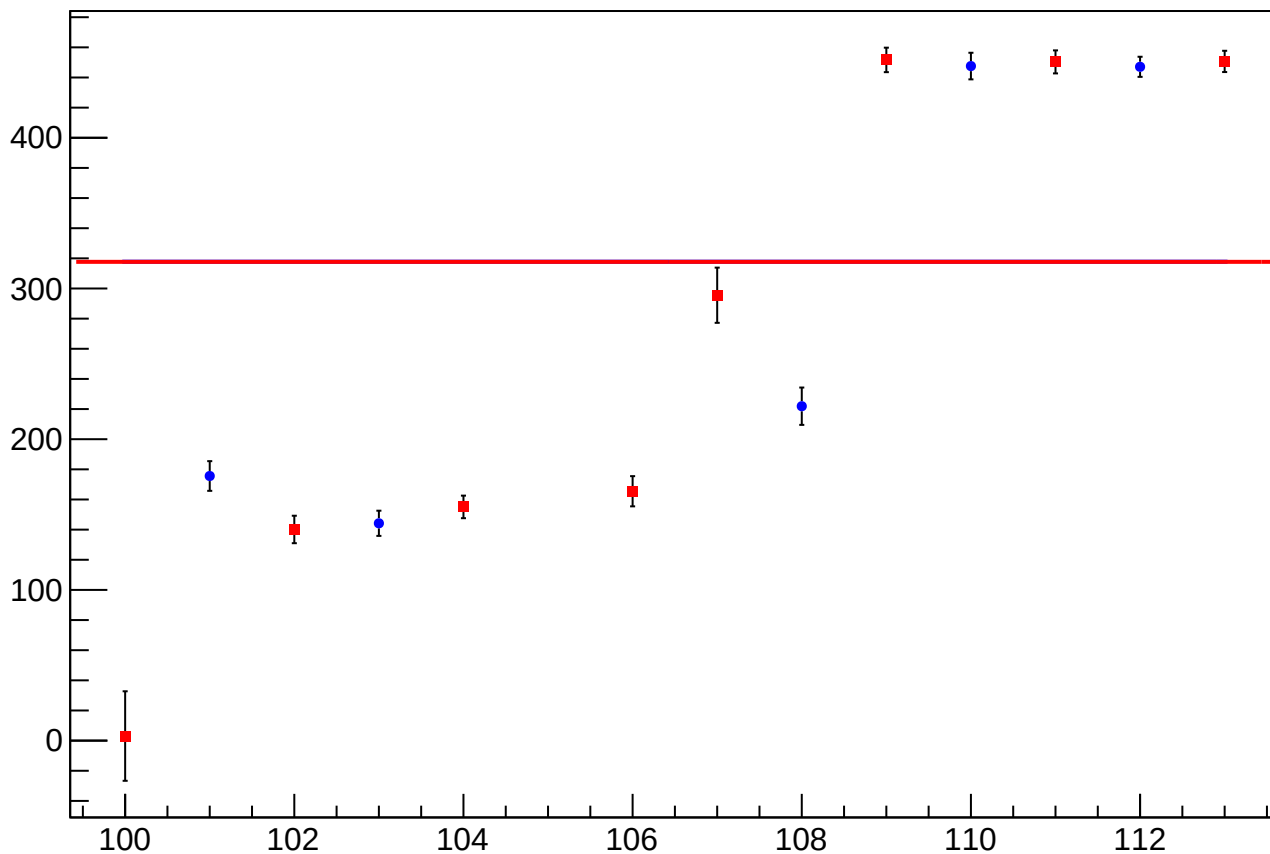
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.755+/-2.702  $\chi^2/\text{NDF}$ : 61.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug



Right In: 317.777 $\pm$ 3.879  $\chi^2$ /NDF: 1291.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 317.684 $\pm$ 3.222  $\chi^2$ /NDF: 2124.5/7

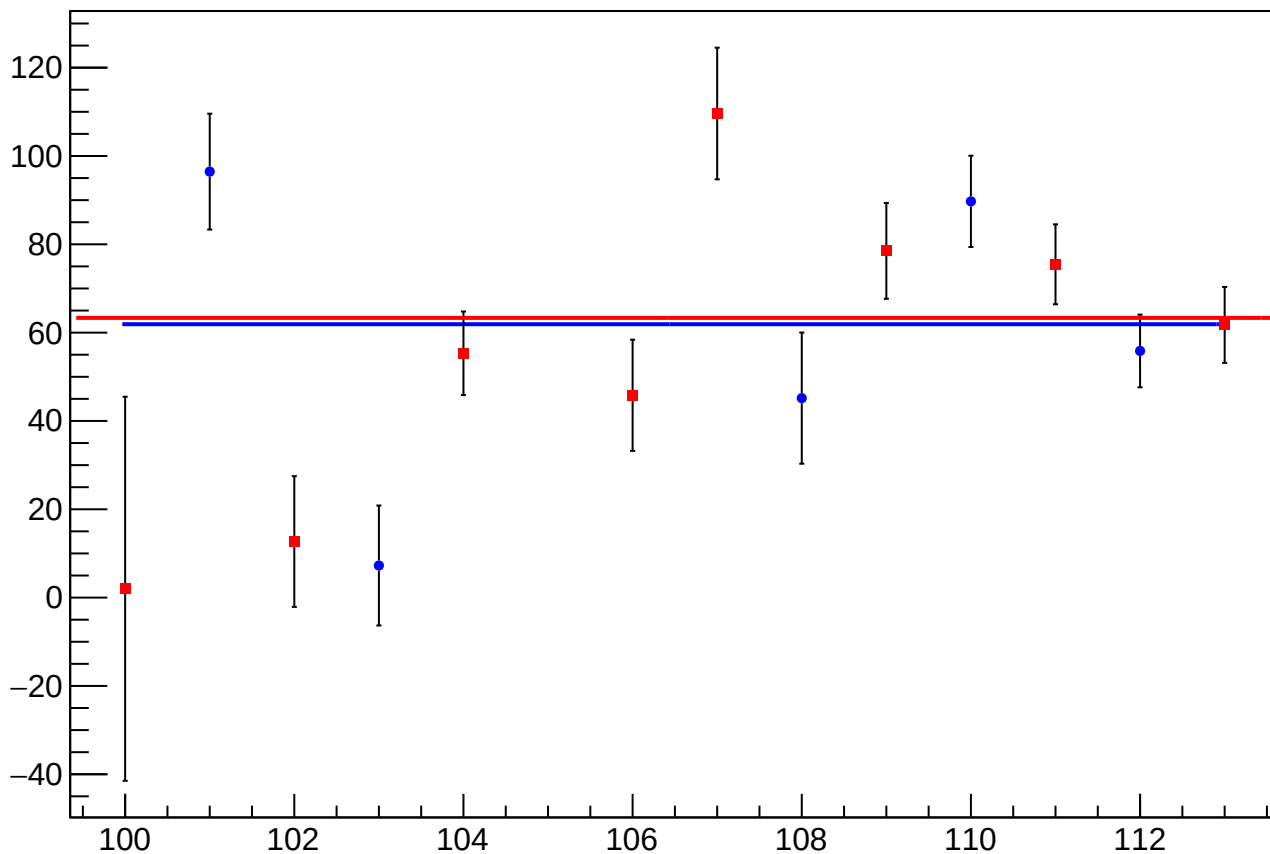
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 317.722 $\pm$ 2.478  $\chi^2$ /NDF: 3416.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug



Right In: 61.906 $\pm$ 5.007  $\chi^2$ /NDF: 32.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 63.340 $\pm$ 4.039  $\chi^2$ /NDF: 29.8/7

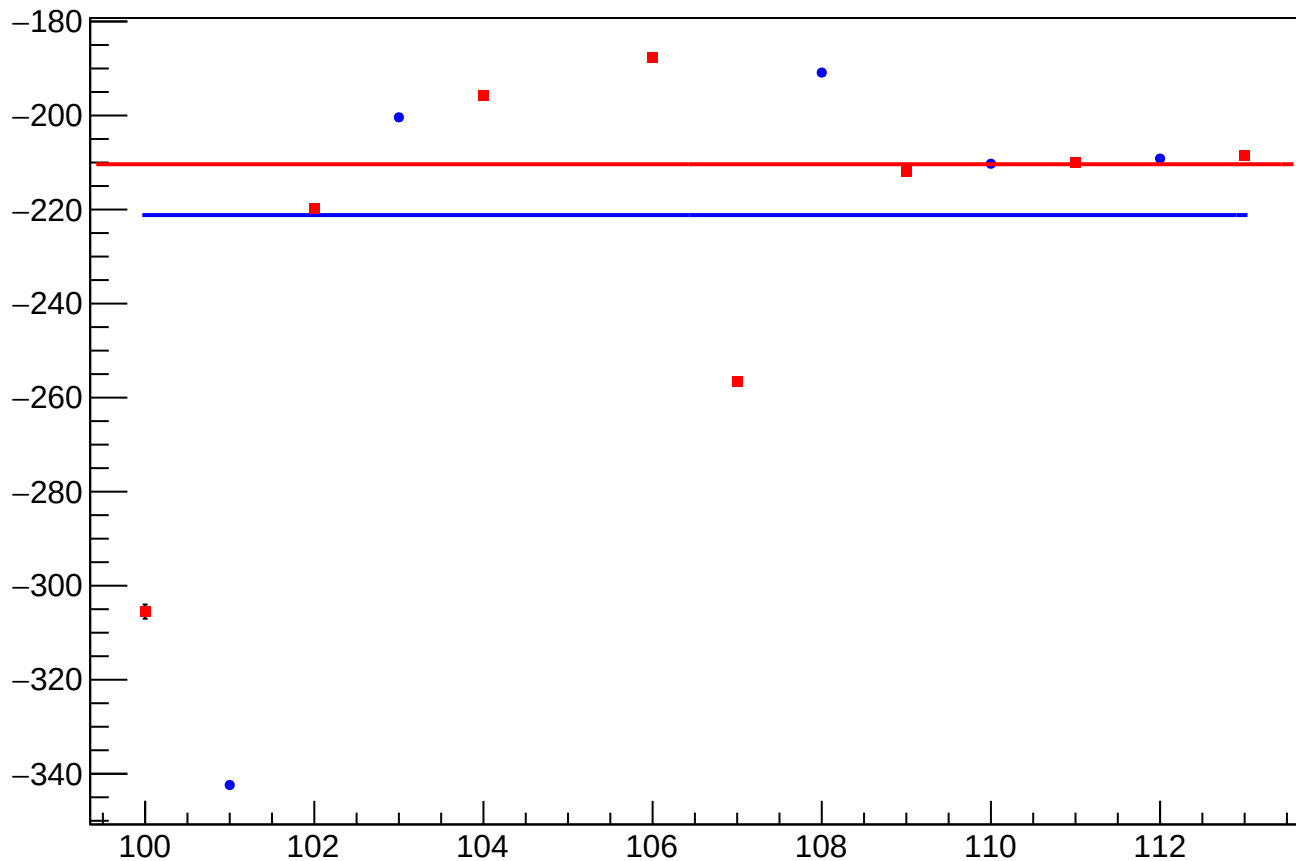
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 62.774 $\pm$ 3.144  $\chi^2$ /NDF: 62.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug



Right In: -221.177+/-0.221  $\chi^2$ /NDF: 50257.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -210.364+/-0.187  $\chi^2$ /NDF: 11714.9/7

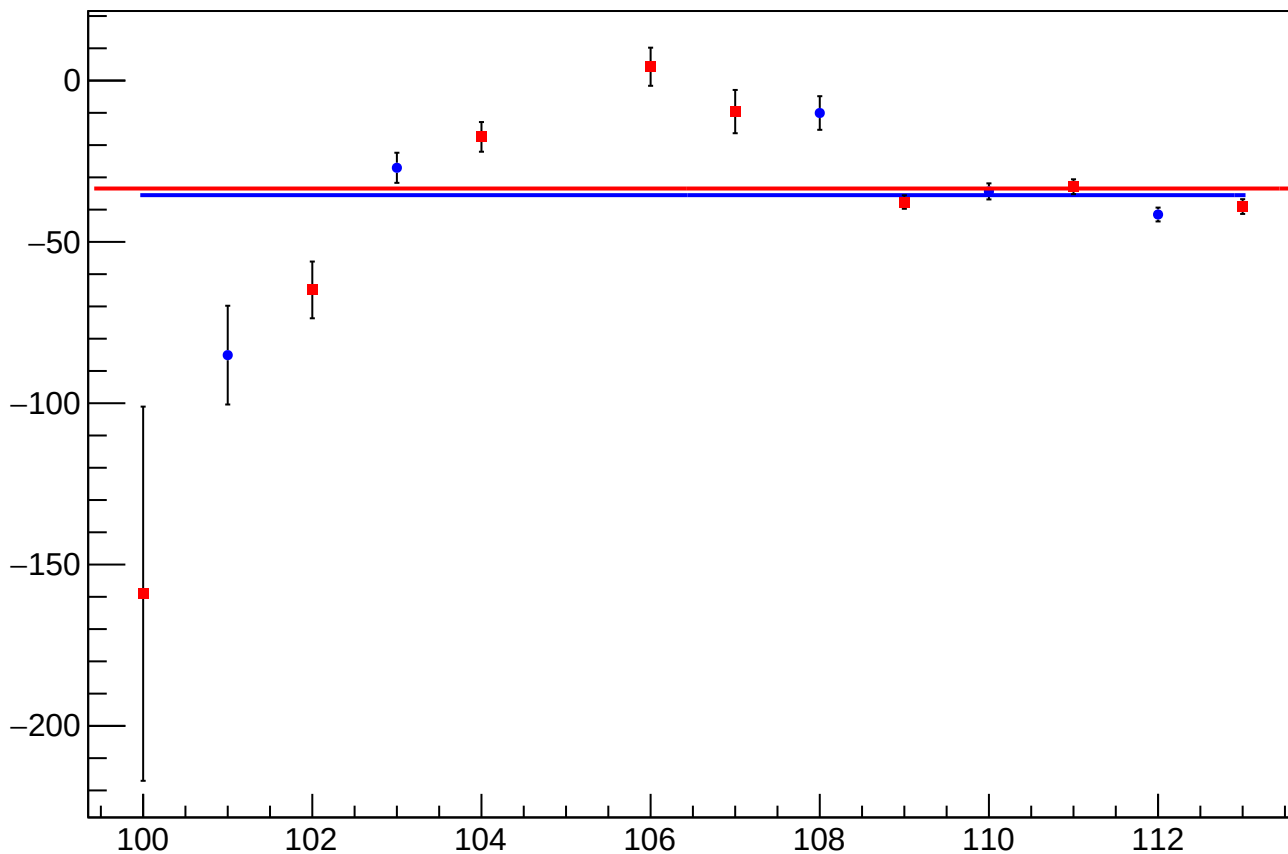
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -214.864+/-0.143  $\chi^2$ /NDF: 63364.1/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug



Right In: -35.513+/-1.466  $\chi^2/\text{NDF}$ : 45.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -33.455+/-1.178  $\chi^2/\text{NDF}$ : 93.1/7

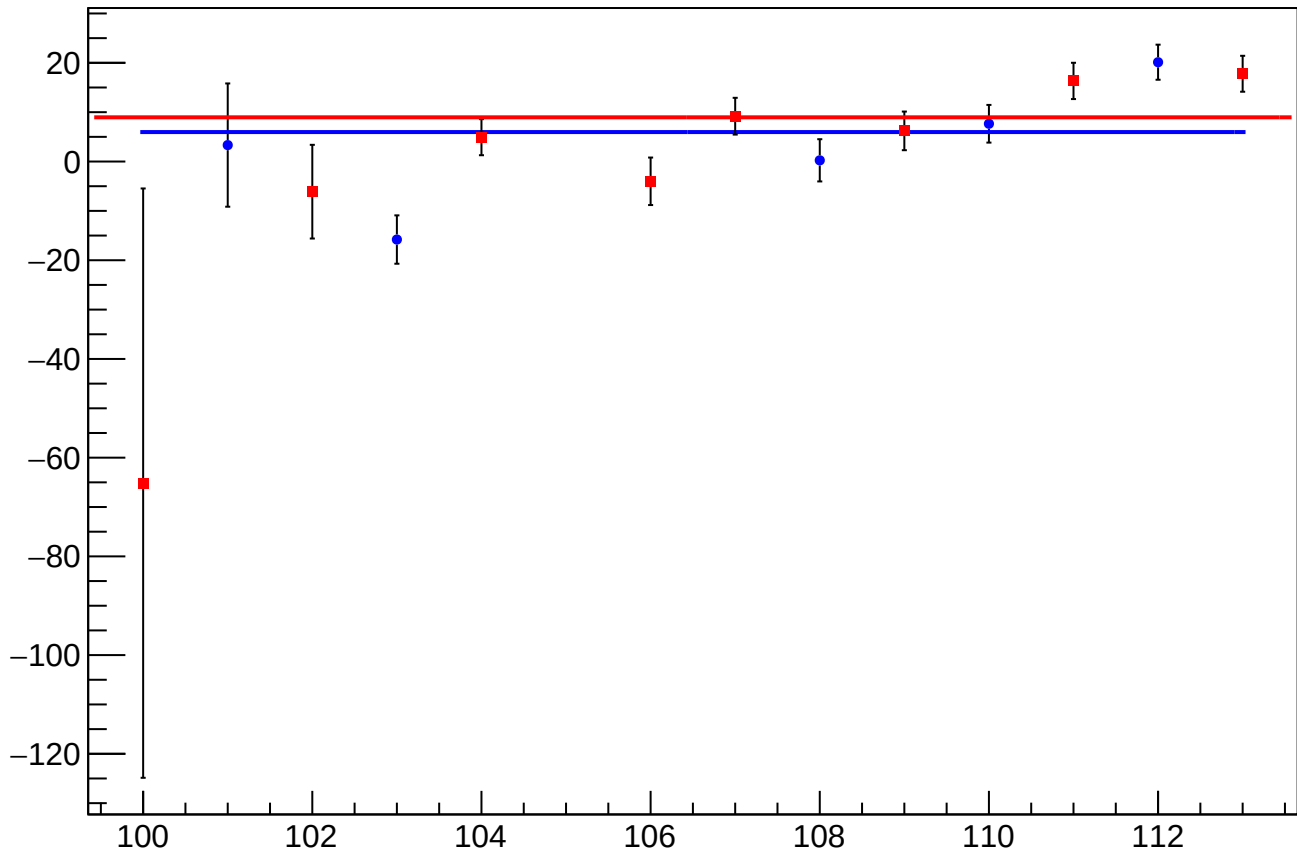
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -34.263+/-0.918  $\chi^2/\text{NDF}$ : 140.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug



Right In: 5.969 $\pm$ 1.998  $\chi^2$ /NDF: 37.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8.958 $\pm$ 1.550  $\chi^2$ /NDF: 22.9/7

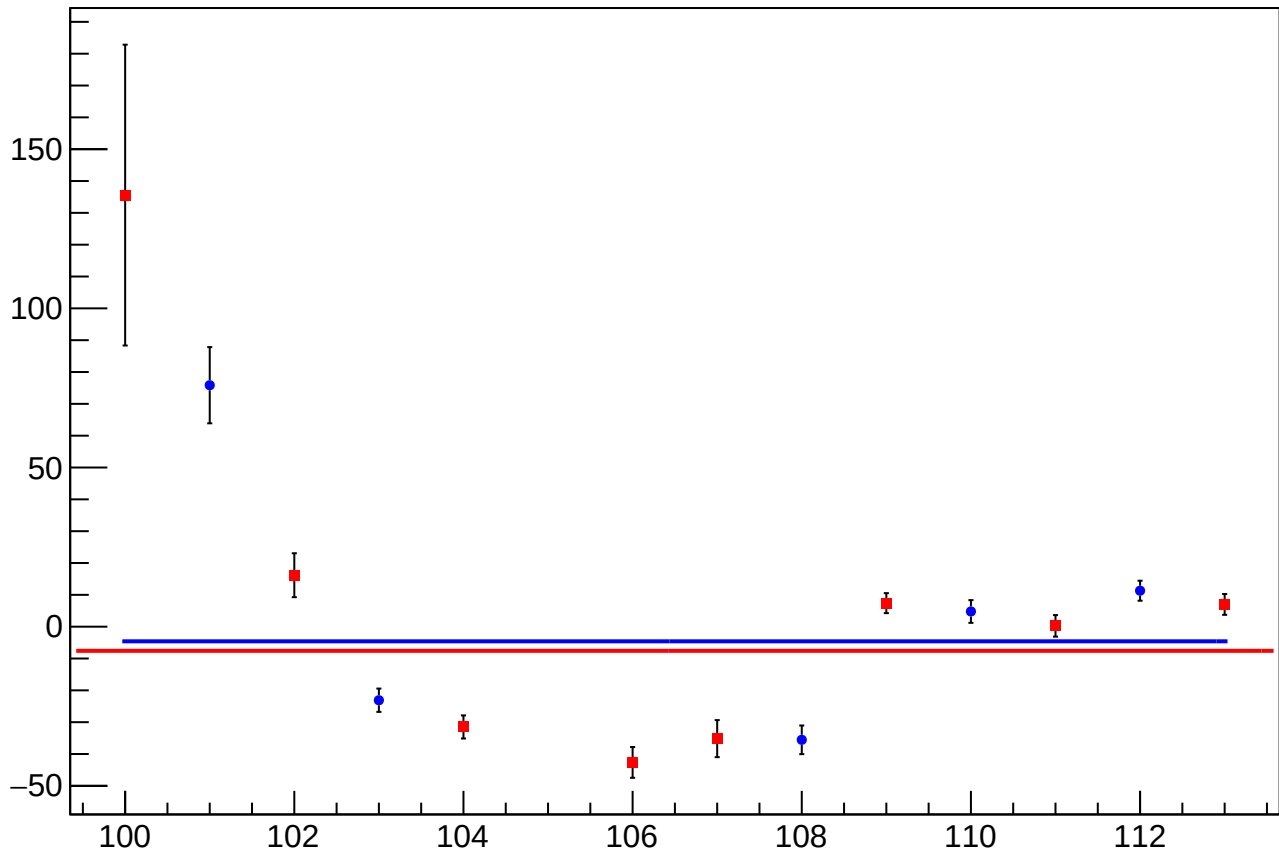
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.835 $\pm$ 1.225  $\chi^2$ /NDF: 62.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug



Right In: -4.596+/-1.794  $\chi^2/\text{NDF}$ : 150.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7.583+/-1.487  $\chi^2/\text{NDF}$ : 187.6/7

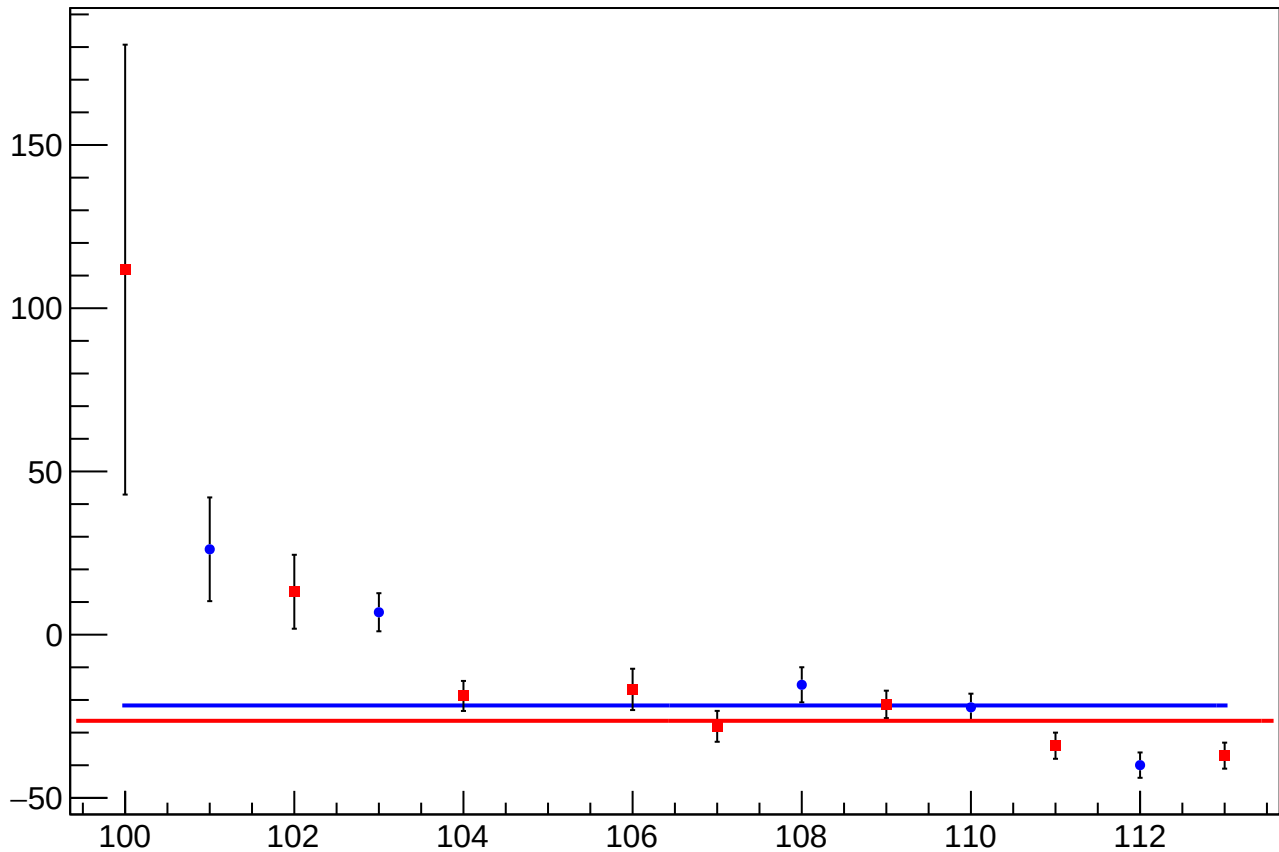
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.367+/-1.145  $\chi^2/\text{NDF}$ : 339.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-21.685 \pm 2.286$   $\chi^2/\text{NDF}: 56.6/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-26.387 \pm 1.805$   $\chi^2/\text{NDF}: 33.6/7$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

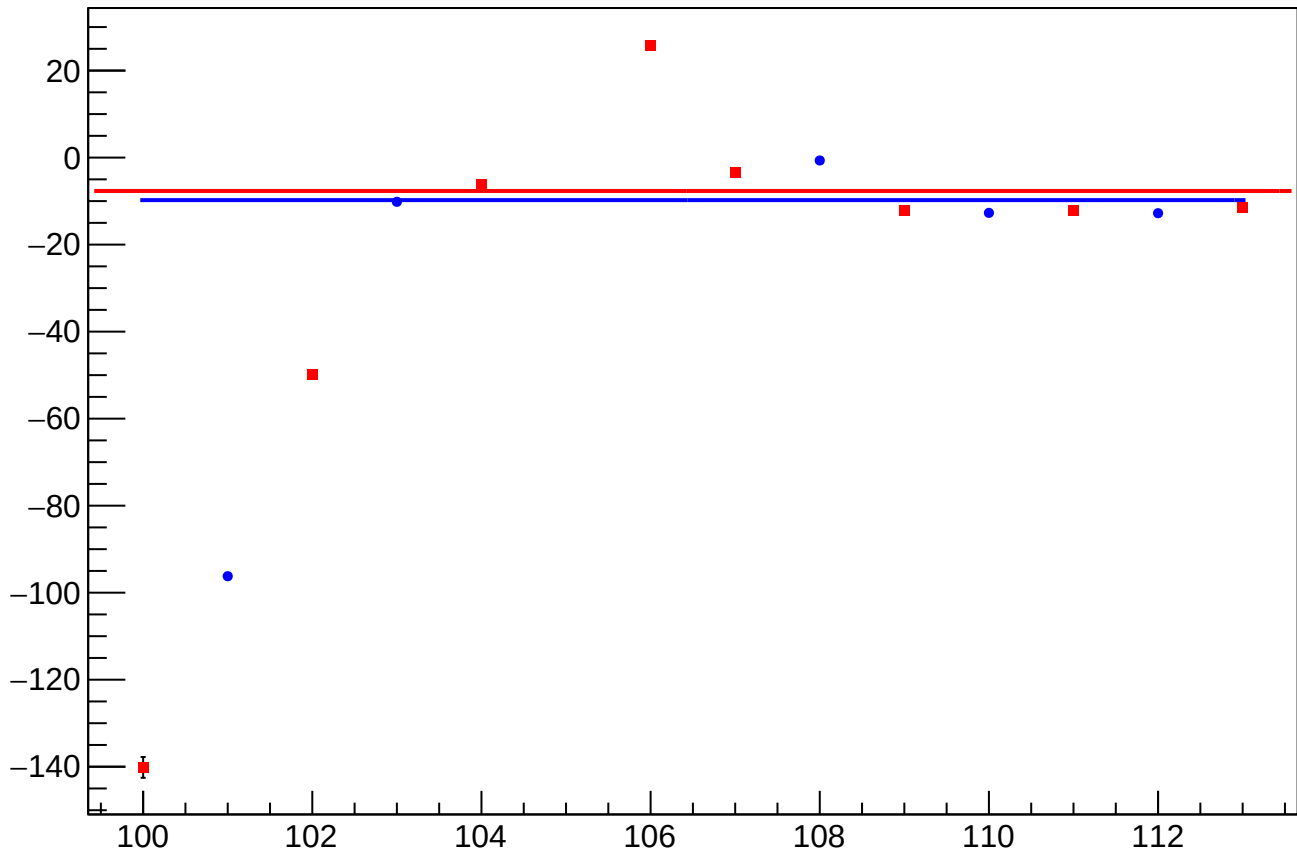
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-24.580 \pm 1.417$   $\chi^2/\text{NDF}: 92.8/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$



# reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug



Right In: -9.777+/-0.099  $\chi^2/\text{NDF}$ : 17616.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7.674+/-0.087  $\chi^2/\text{NDF}$ : 45668.6/7

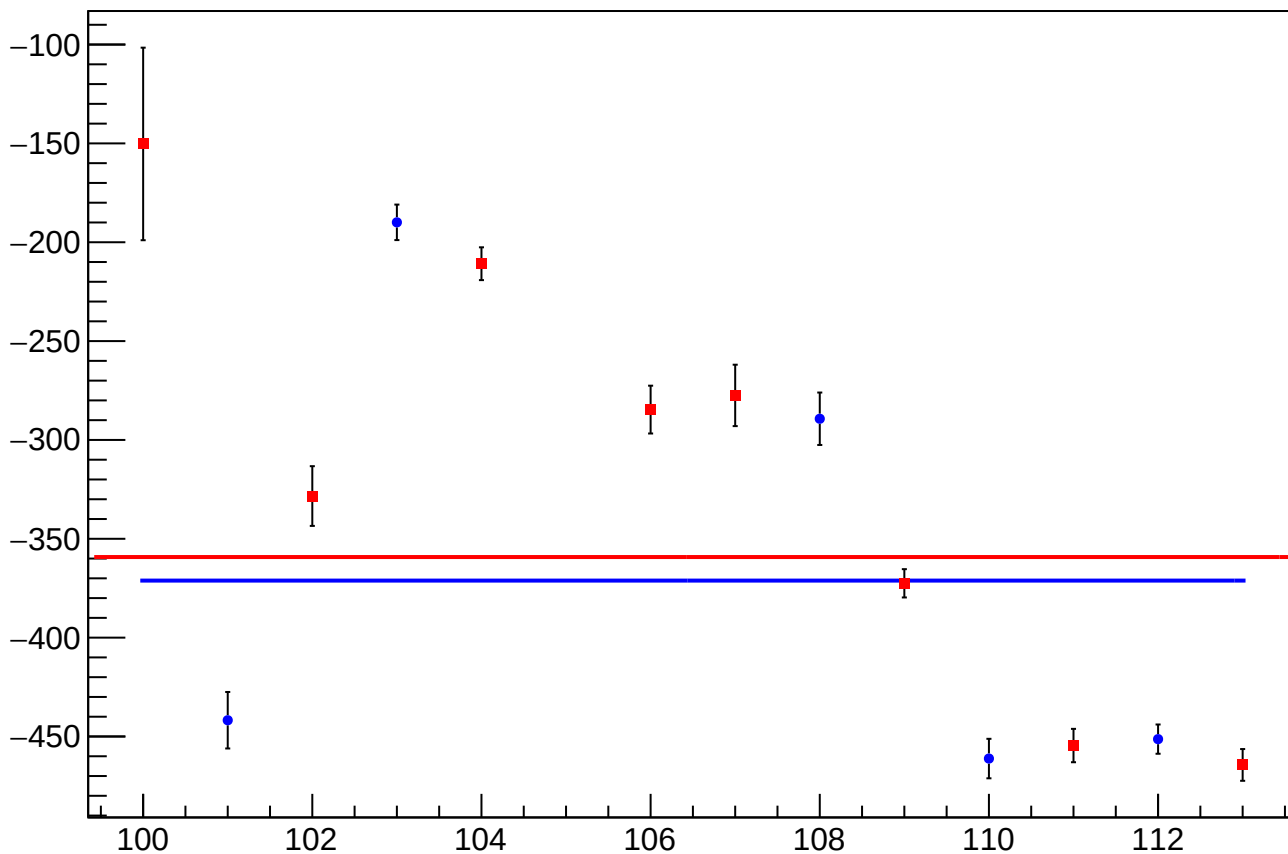
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.593+/-0.065  $\chi^2/\text{NDF}$ : 63540.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug



Right In:  $-371.144 \pm 4.415$   $\chi^2/\text{NDF}$ : 668.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-359.230 \pm 3.549$   $\chi^2/\text{NDF}$ : 710.7/7

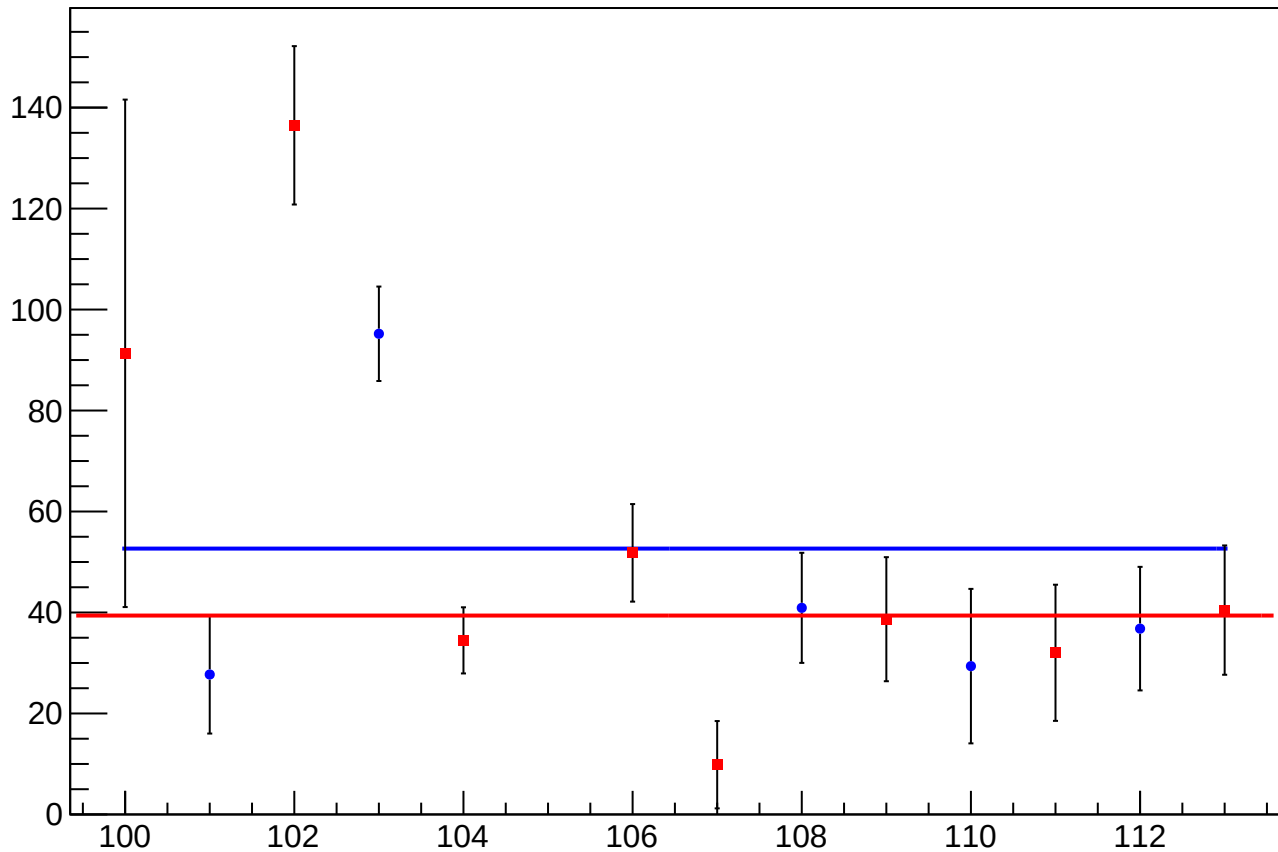
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-363.907 \pm 2.766$   $\chi^2/\text{NDF}$ : 1383.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr2\_diff\_bpm4aY\_slope vs Slug



Right In: 52.657 $\pm$ 5.123  $\chi^2$ /NDF: 30.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 39.393 $\pm$ 3.778  $\chi^2$ /NDF: 53.6/7

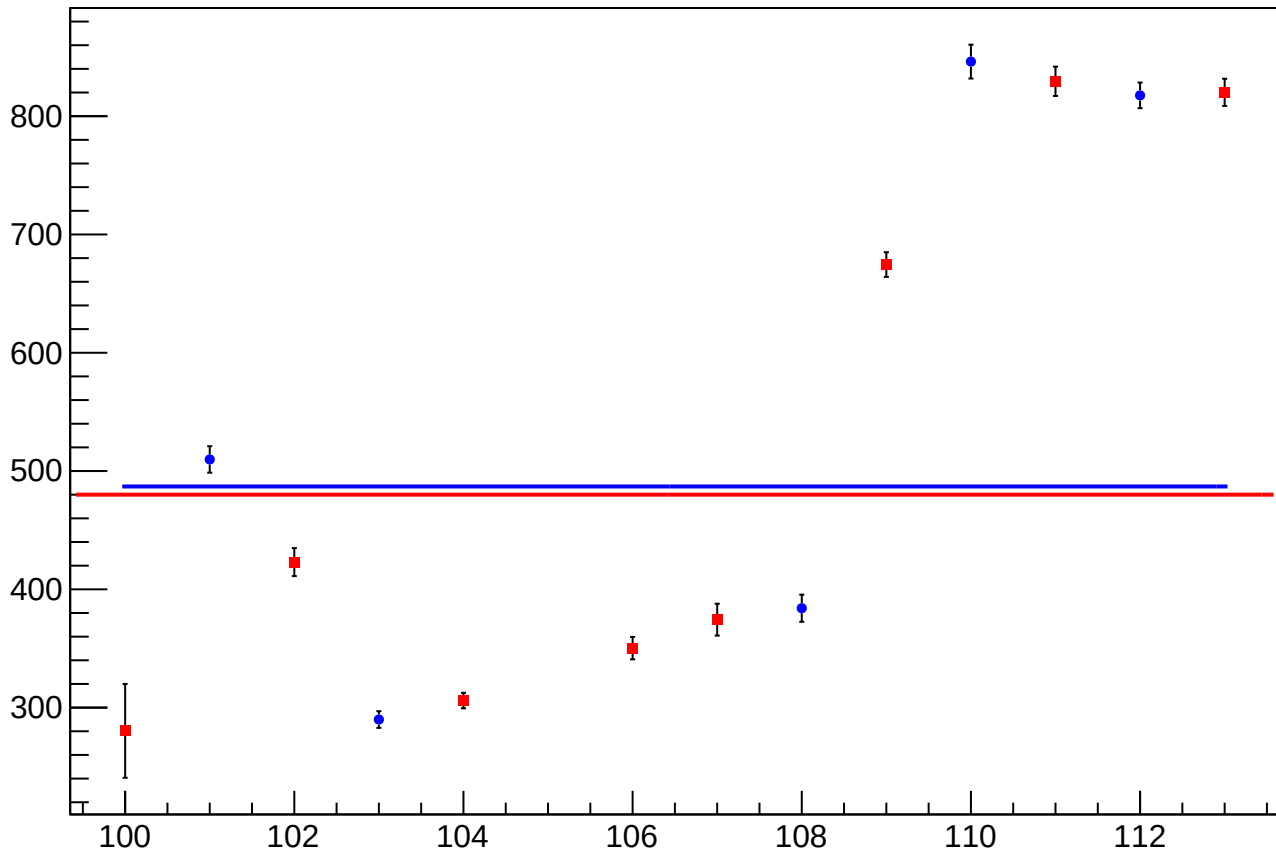
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 44.066 $\pm$ 3.040  $\chi^2$ /NDF: 88.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug



Right In: 486.955 $\pm$ 4.510  $\chi^2$ /NDF: 2428.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 480.024 $\pm$ 3.754  $\chi^2$ /NDF: 3019.2/7

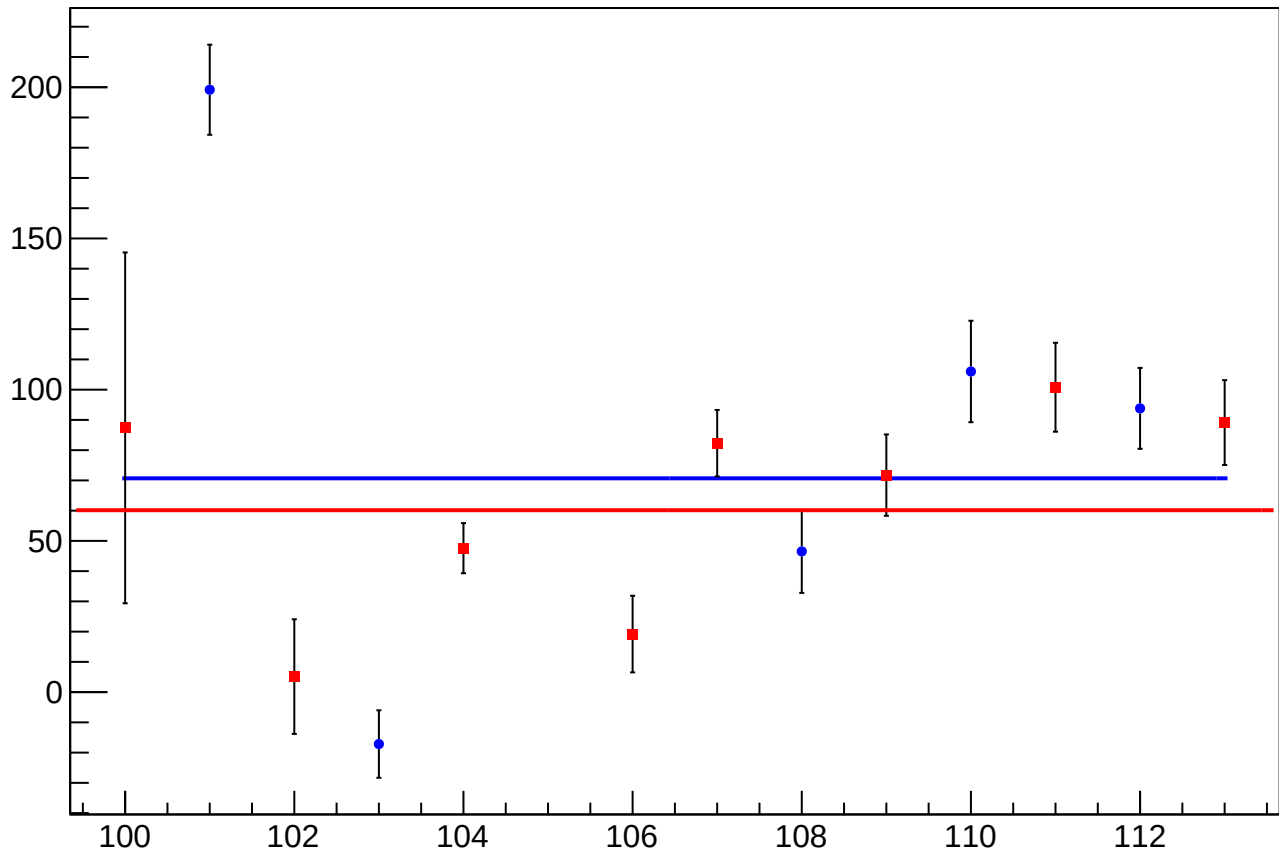
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 482.861 $\pm$ 2.885  $\chi^2$ /NDF: 5449.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug



Right In: 70.688 $\pm$ 6.086  $\chi^2$ /NDF: 146.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 60.145 $\pm$ 4.594  $\chi^2$ /NDF: 38.1/7

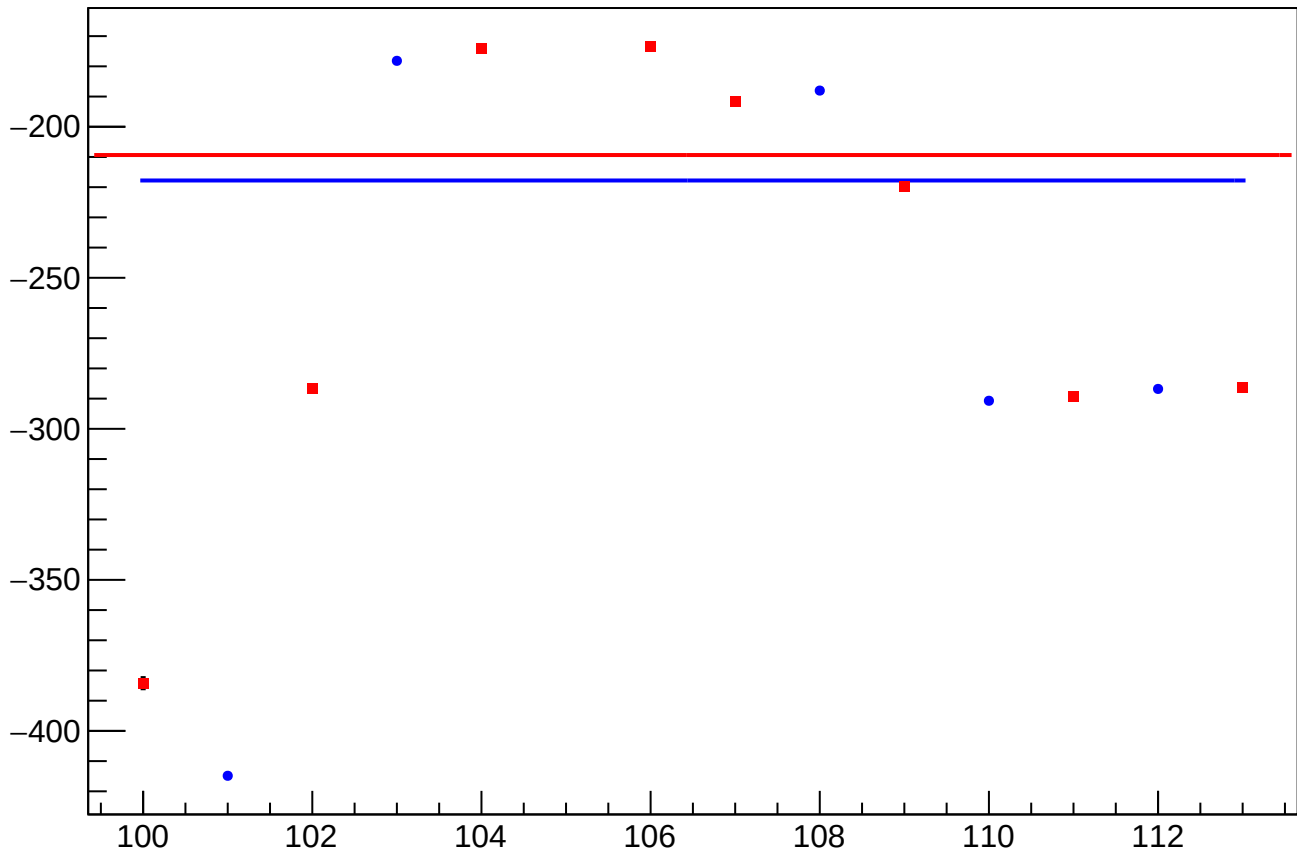
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 63.972 $\pm$ 3.667  $\chi^2$ /NDF: 186.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug



Right In:  $-217.786 \pm 0.222$   $\chi^2/\text{NDF}$ : 119645.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-209.362 \pm 0.198$   $\chi^2/\text{NDF}$ : 63279.3/7

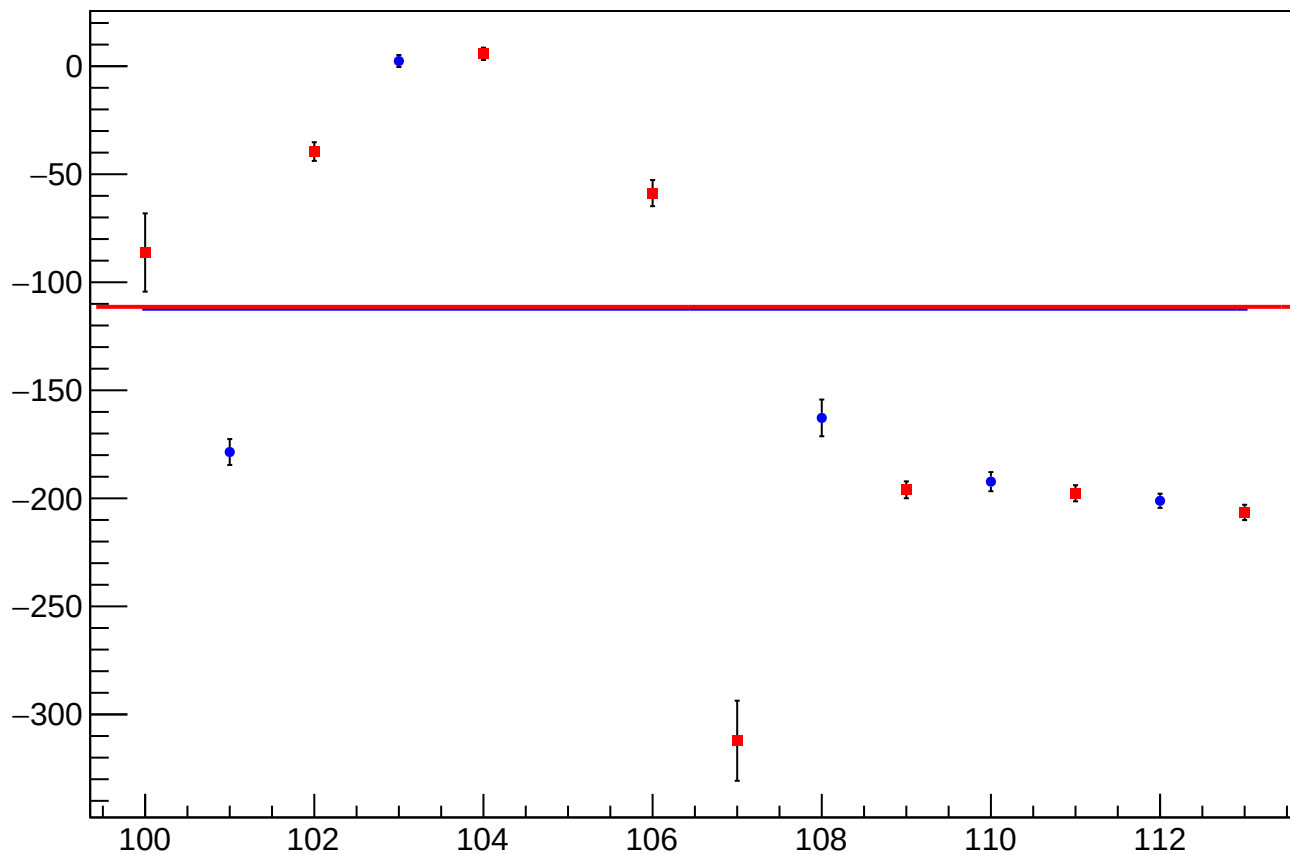
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-213.104 \pm 0.148$   $\chi^2/\text{NDF}$ : 183727.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -112.247+/-1.783  $\chi^2/\text{NDF}$ : 2915.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -111.367+/-1.529  $\chi^2/\text{NDF}$ : 3895.3/7

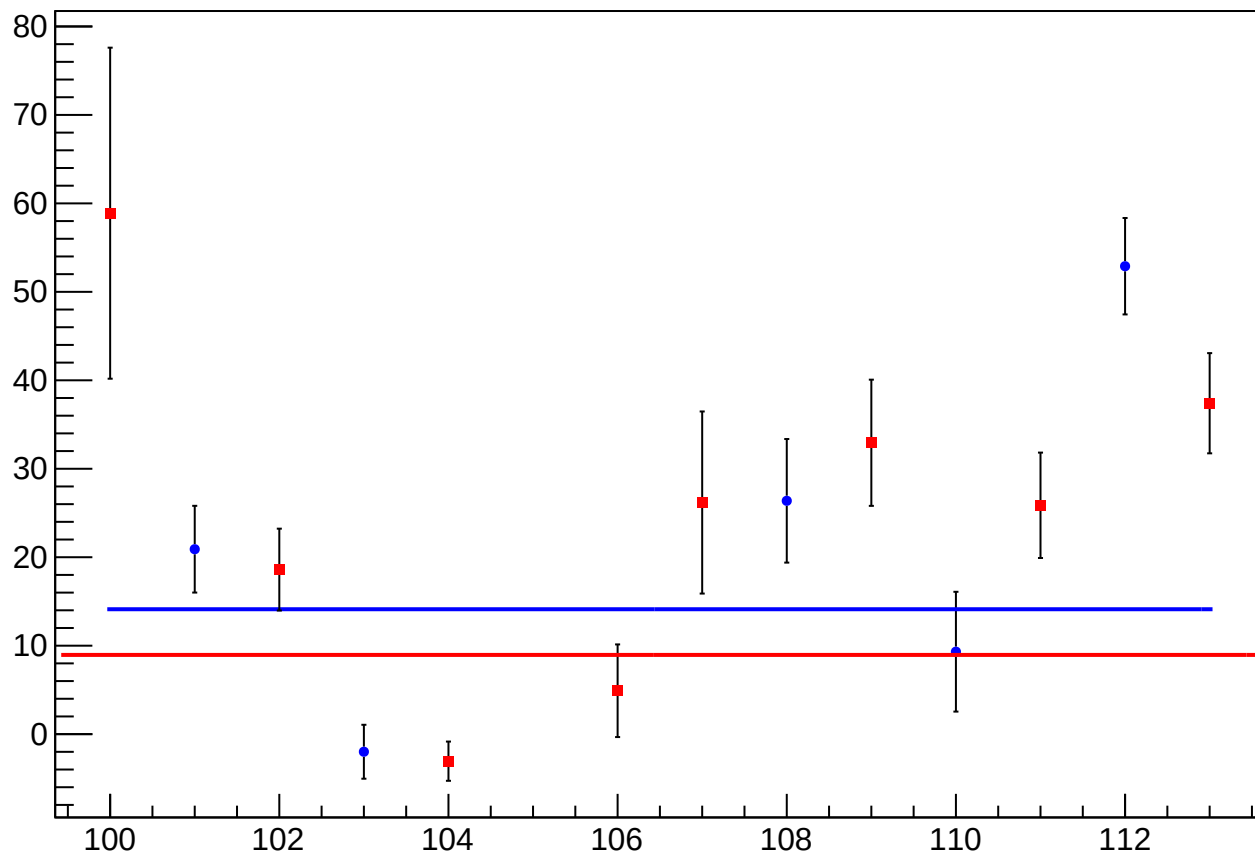
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -111.740+/-1.161  $\chi^2/\text{NDF}$ : 6810.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 14.120 $\pm$ 2.107  $\chi^2$ /NDF: 84.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8.957 $\pm$ 1.627  $\chi^2$ /NDF: 88.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

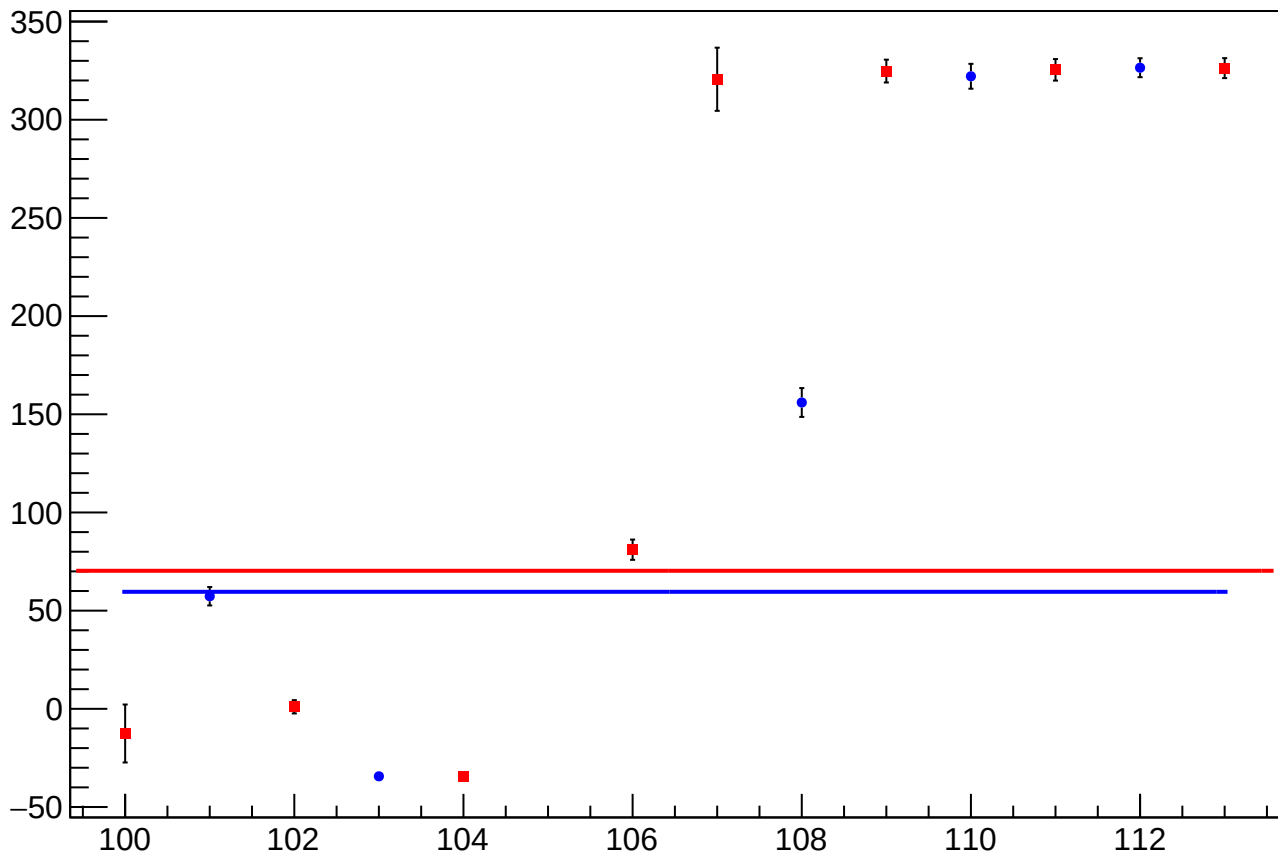
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.885 $\pm$ 1.288  $\chi^2$ /NDF: 176.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 59.595+/-1.711  $\chi^2/\text{NDF}$ : 6804.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 70.305+/-1.518  $\chi^2/\text{NDF}$ : 9495.2/7

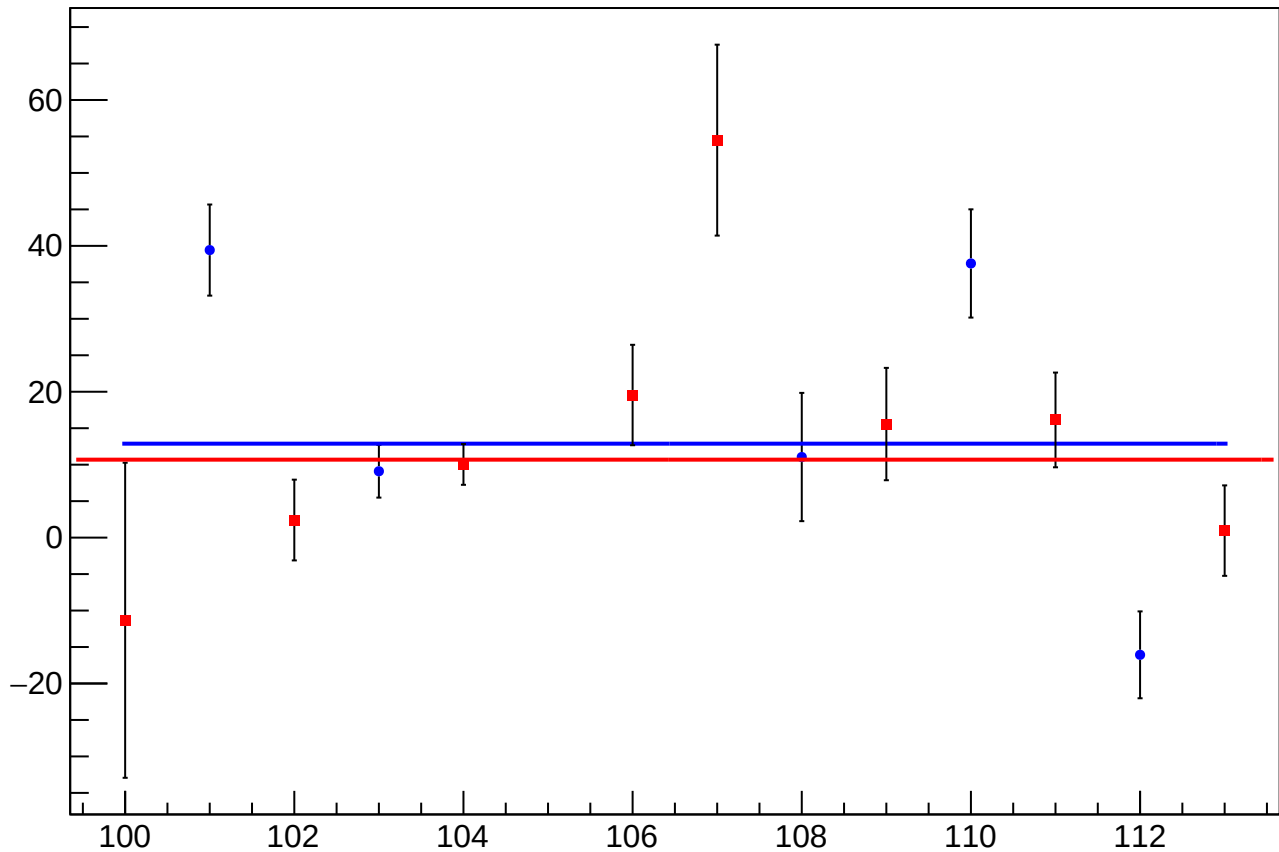
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.587+/-1.136  $\chi^2/\text{NDF}$ : 16321.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 12.881 $\pm$ 2.489  $\chi^2$ /NDF: 53.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.688 $\pm$ 1.975  $\chi^2$ /NDF: 19.8/7

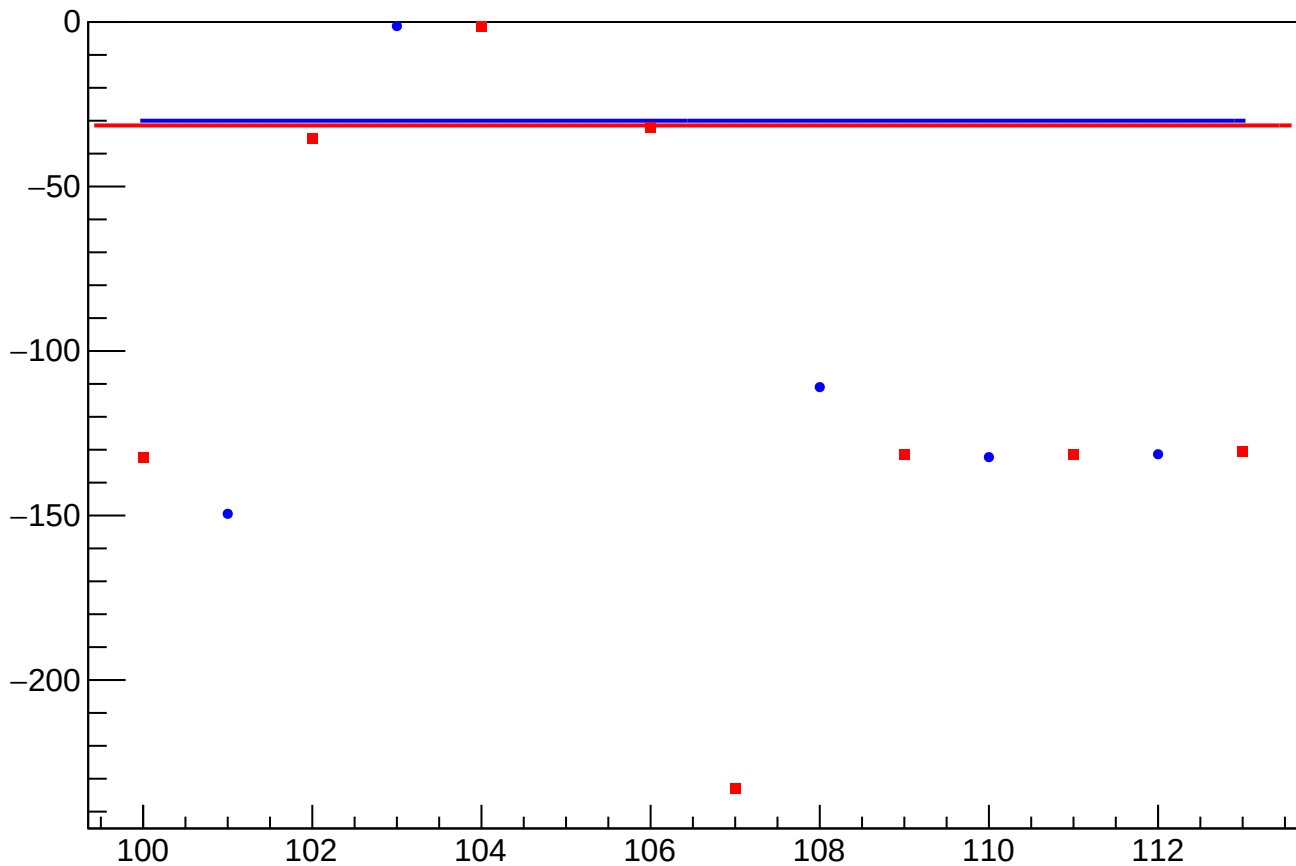
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.535 $\pm$ 1.547  $\chi^2$ /NDF: 74.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-30.000 \pm 0.080$   $\chi^2/\text{NDF}: 465085.3/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-31.434 \pm 0.074$   $\chi^2/\text{NDF}: 374045.0/7$

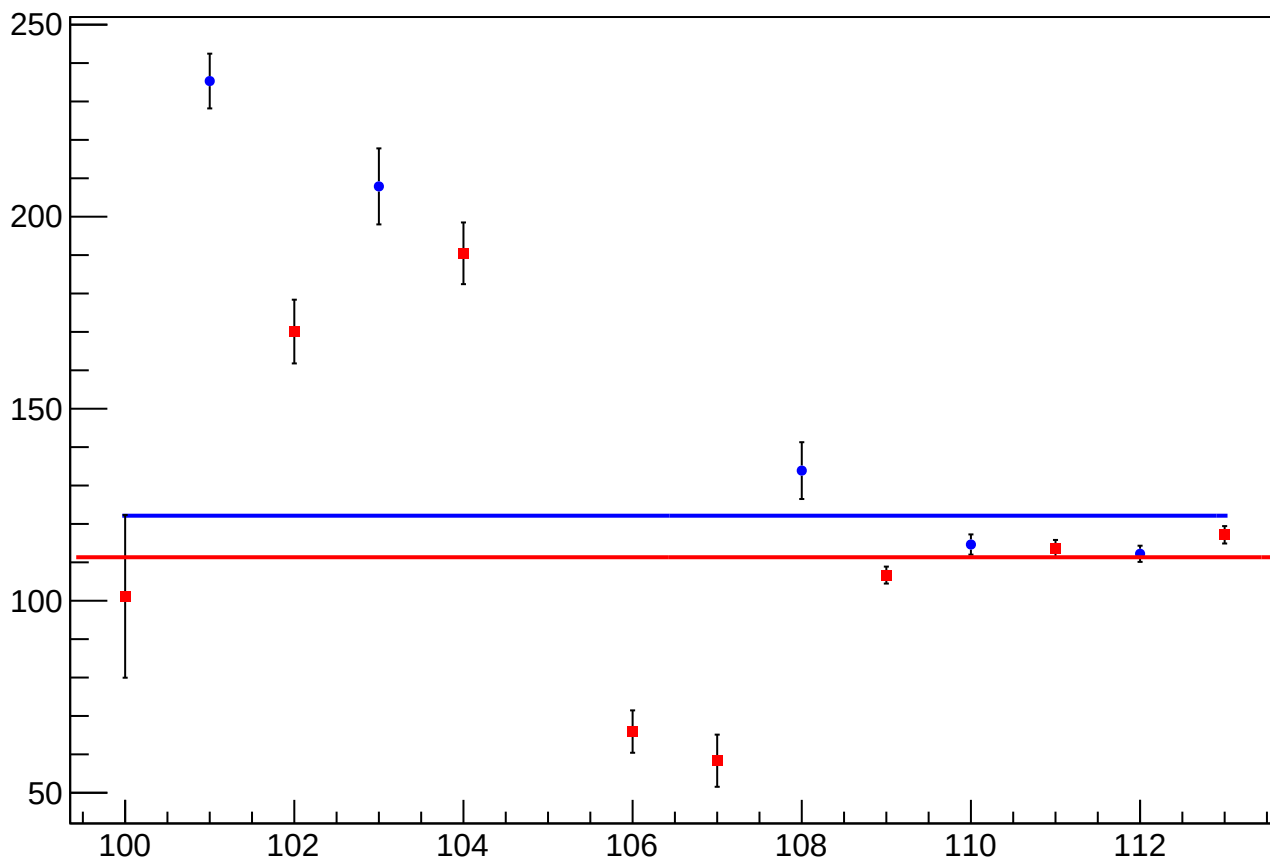
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-30.776 \pm 0.054$   $\chi^2/\text{NDF}: 839304.0/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 122.143 $\pm$ 1.547  $\chi^2$ /NDF: 360.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 111.326 $\pm$ 1.222  $\chi^2$ /NDF: 287.9/7

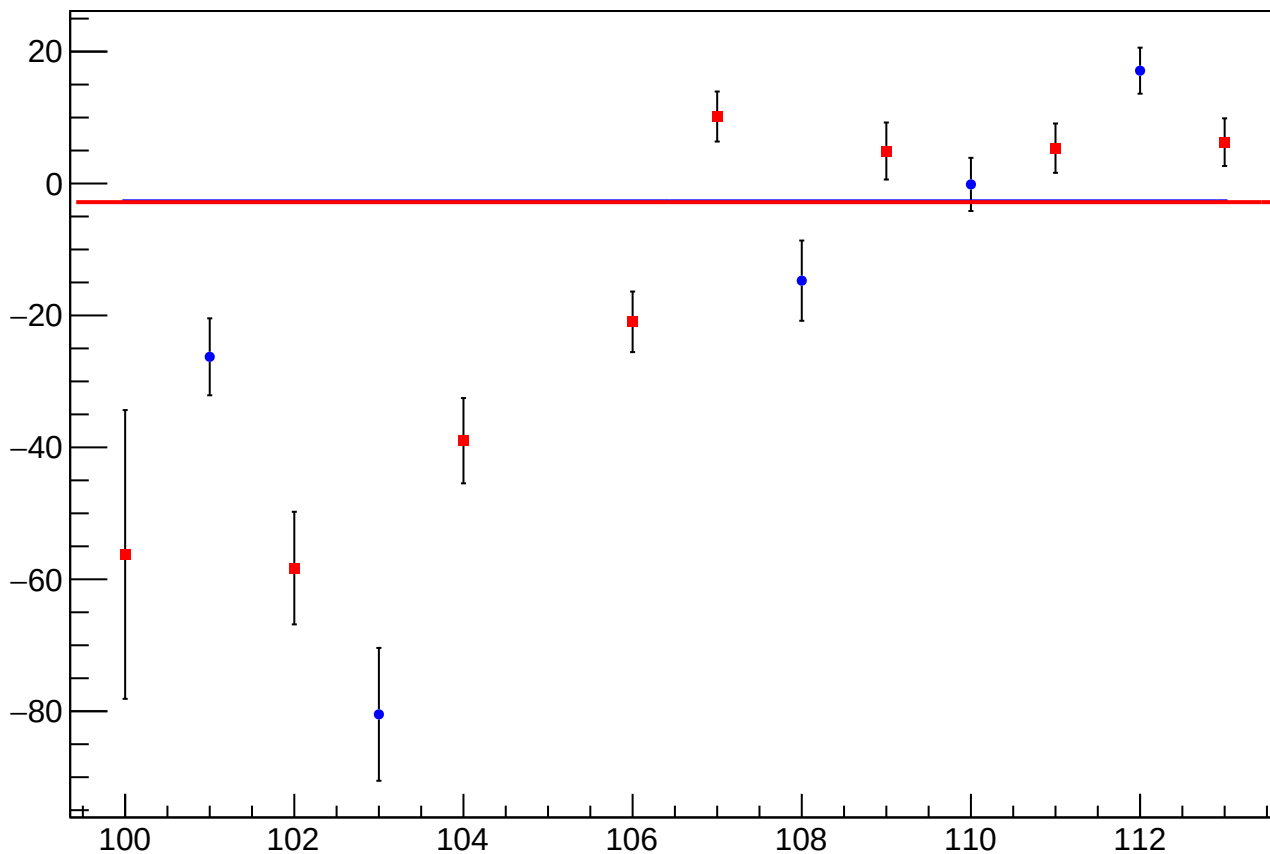
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 115.480 $\pm$ 0.959  $\chi^2$ /NDF: 678.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -2.700+/-2.182  $\chi^2/\text{NDF}$ : 112.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.823+/-1.670  $\chi^2/\text{NDF}$ : 121.2/7

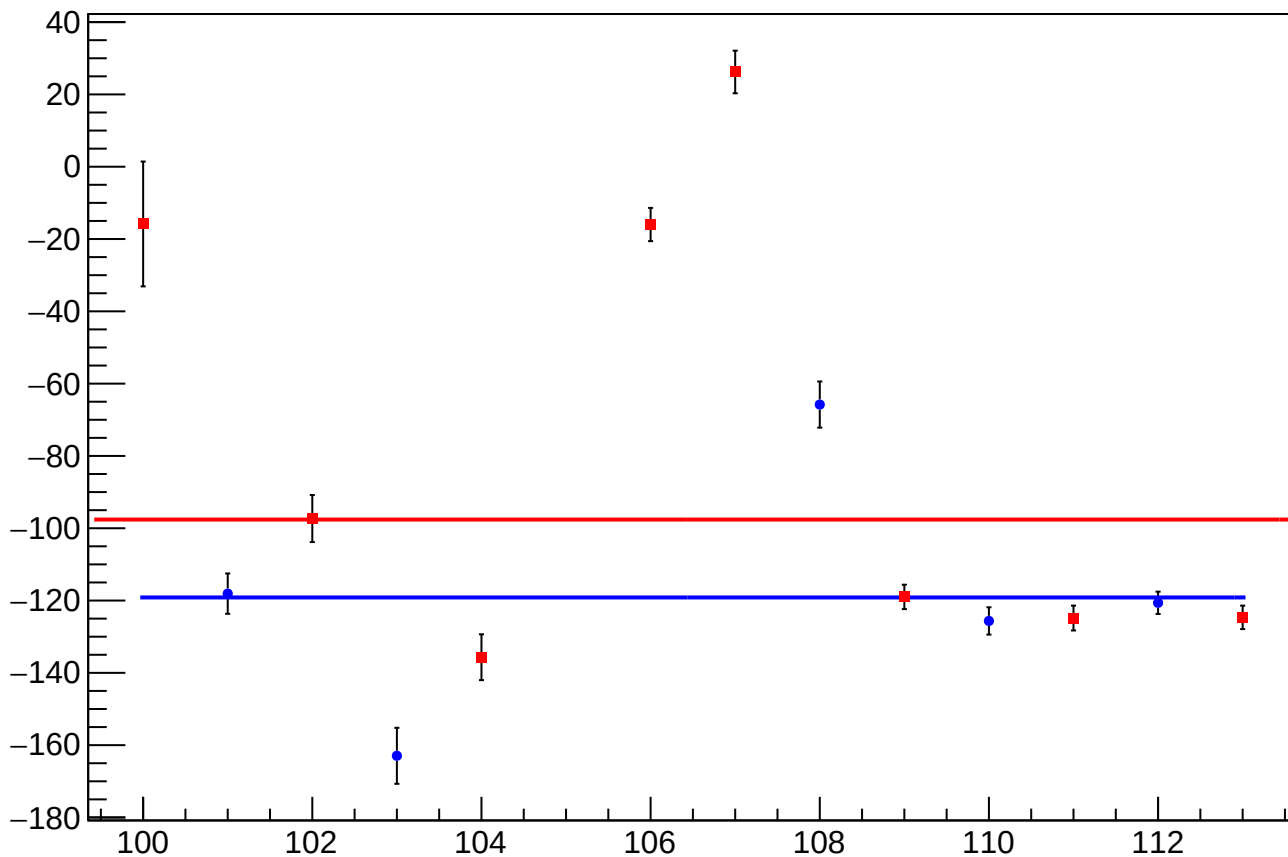
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.778+/-1.326  $\chi^2/\text{NDF}$ : 233.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-119.144 \pm 2.006$   $\chi^2/\text{NDF}$ : 105.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-97.595 \pm 1.590$   $\chi^2/\text{NDF}$ : 987.2/7

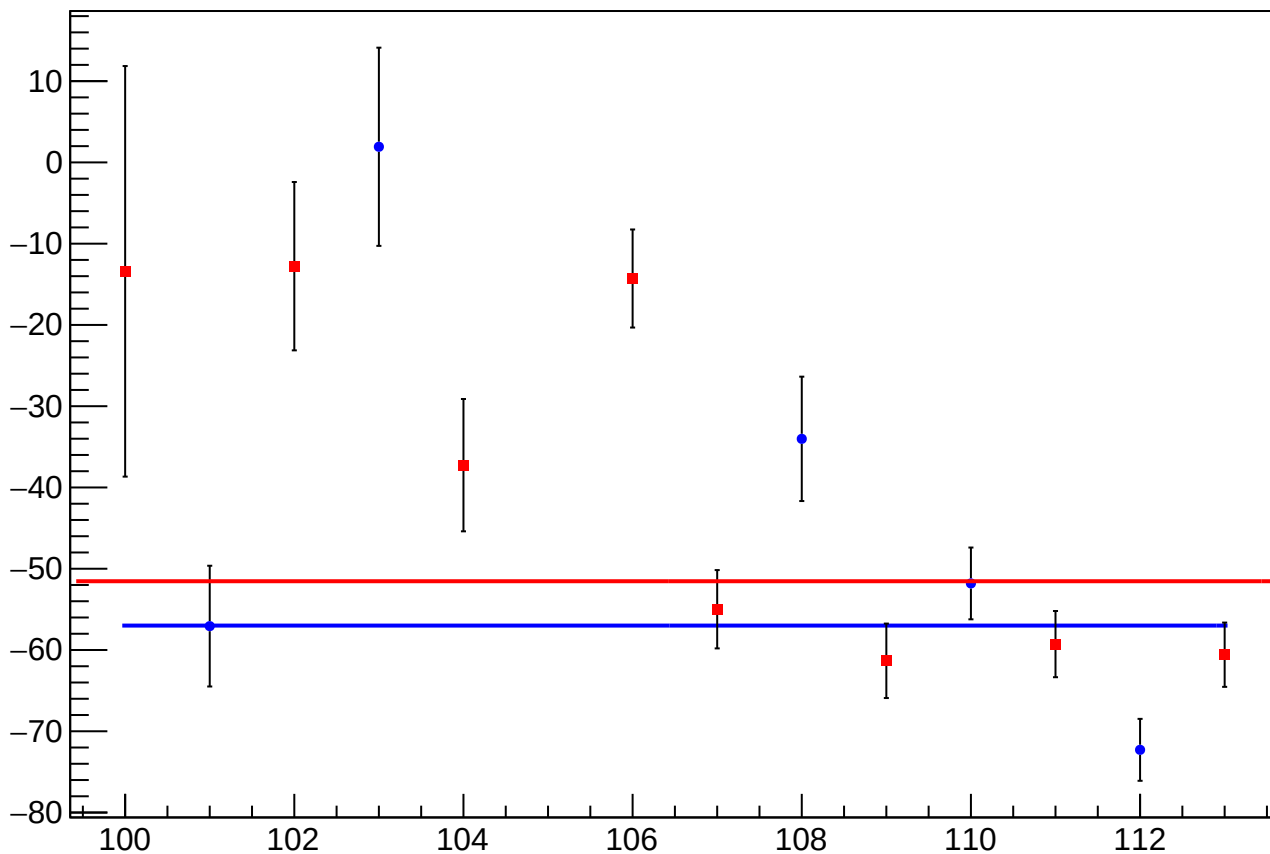
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-105.912 \pm 1.246$   $\chi^2/\text{NDF}$ : 1163.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -56.995 $\pm$ 2.484  $\chi^2$ /NDF: 49.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -51.537 $\pm$ 1.930  $\chi^2$ /NDF: 71.4/7

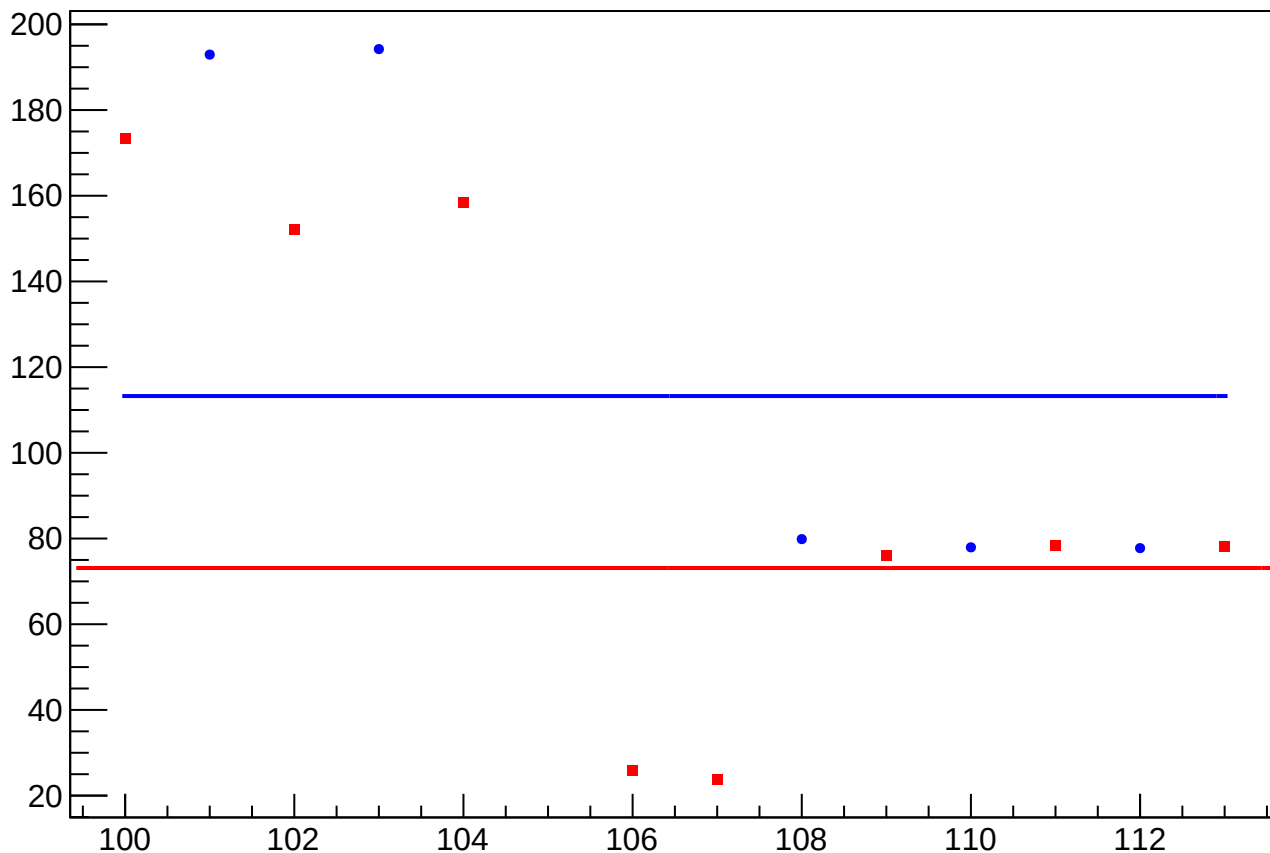
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -53.592 $\pm$ 1.524  $\chi^2$ /NDF: 124.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 113.254 $\pm$ 0.129  $\chi^2$ /NDF: 167502.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 73.123 $\pm$ 0.093  $\chi^2$ /NDF: 272866.9/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

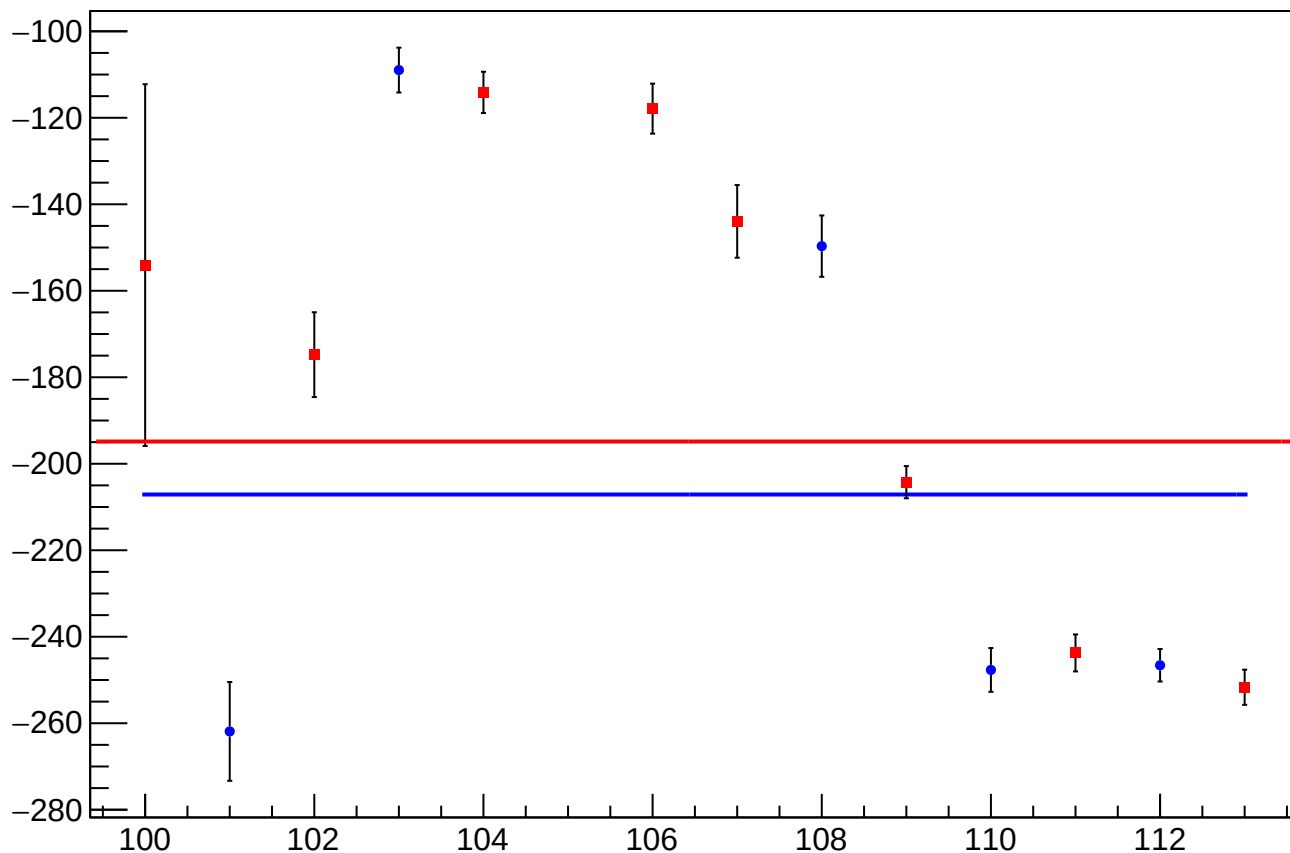
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 86.868 $\pm$ 0.076  $\chi^2$ /NDF: 503944.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -207.109+/-2.393  $\chi^2/\text{NDF}$ : 621.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -194.857+/-1.869  $\chi^2/\text{NDF}$ : 838.1/7

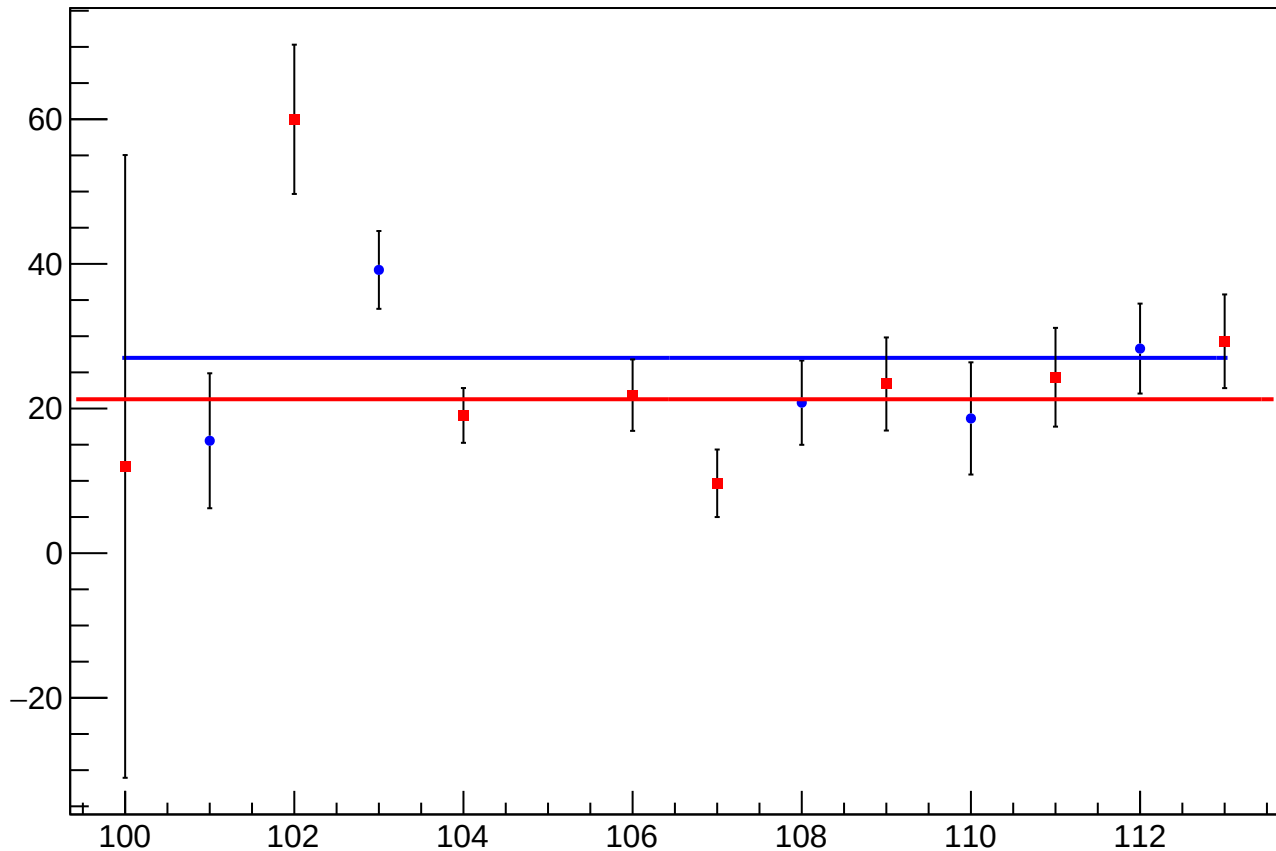
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -199.498+/-1.473  $\chi^2/\text{NDF}$ : 1476.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 27.006 $\pm$ 2.912  $\chi^2$ /NDF: 9.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.283 $\pm$ 2.059  $\chi^2$ /NDF: 22.5/7

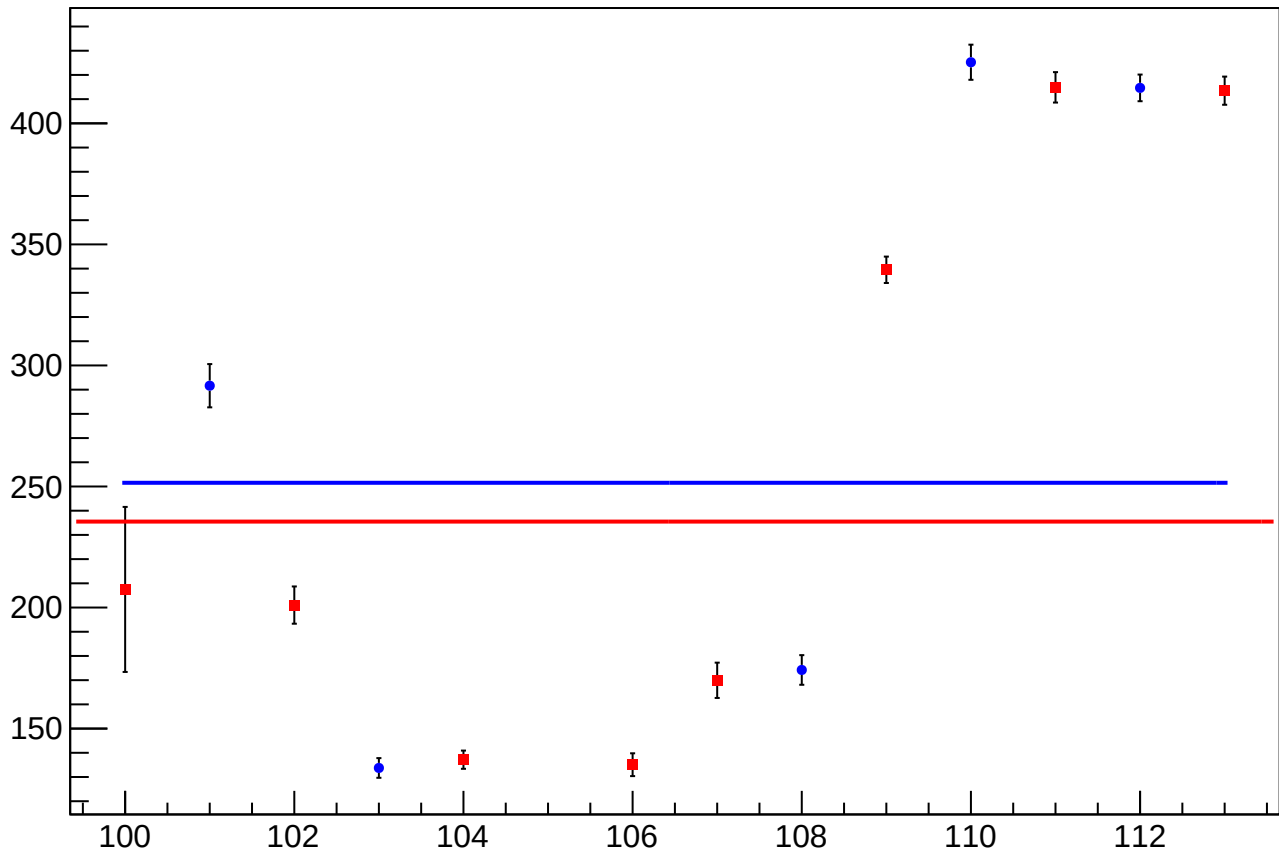
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.191 $\pm$ 1.681  $\chi^2$ /NDF: 34.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 251.531 $\pm$ 2.568  $\chi^2$ /NDF: 2470.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 235.504 $\pm$ 2.038  $\chi^2$ /NDF: 3353.9/7

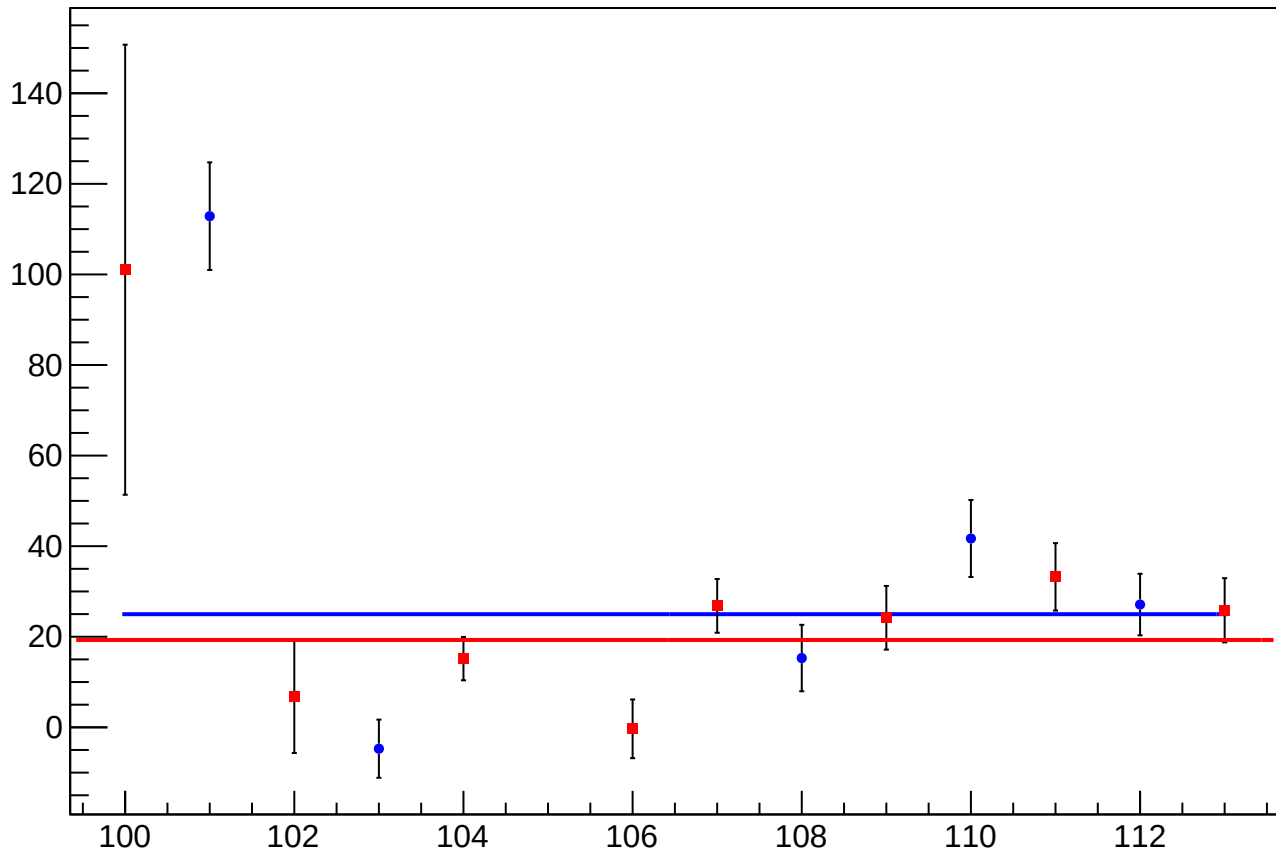
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 241.700 $\pm$ 1.596  $\chi^2$ /NDF: 5848.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 24.982 $\pm$ 3.422  $\chi^2$ /NDF: 81.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.288 $\pm$ 2.493  $\chi^2$ /NDF: 20.1/7

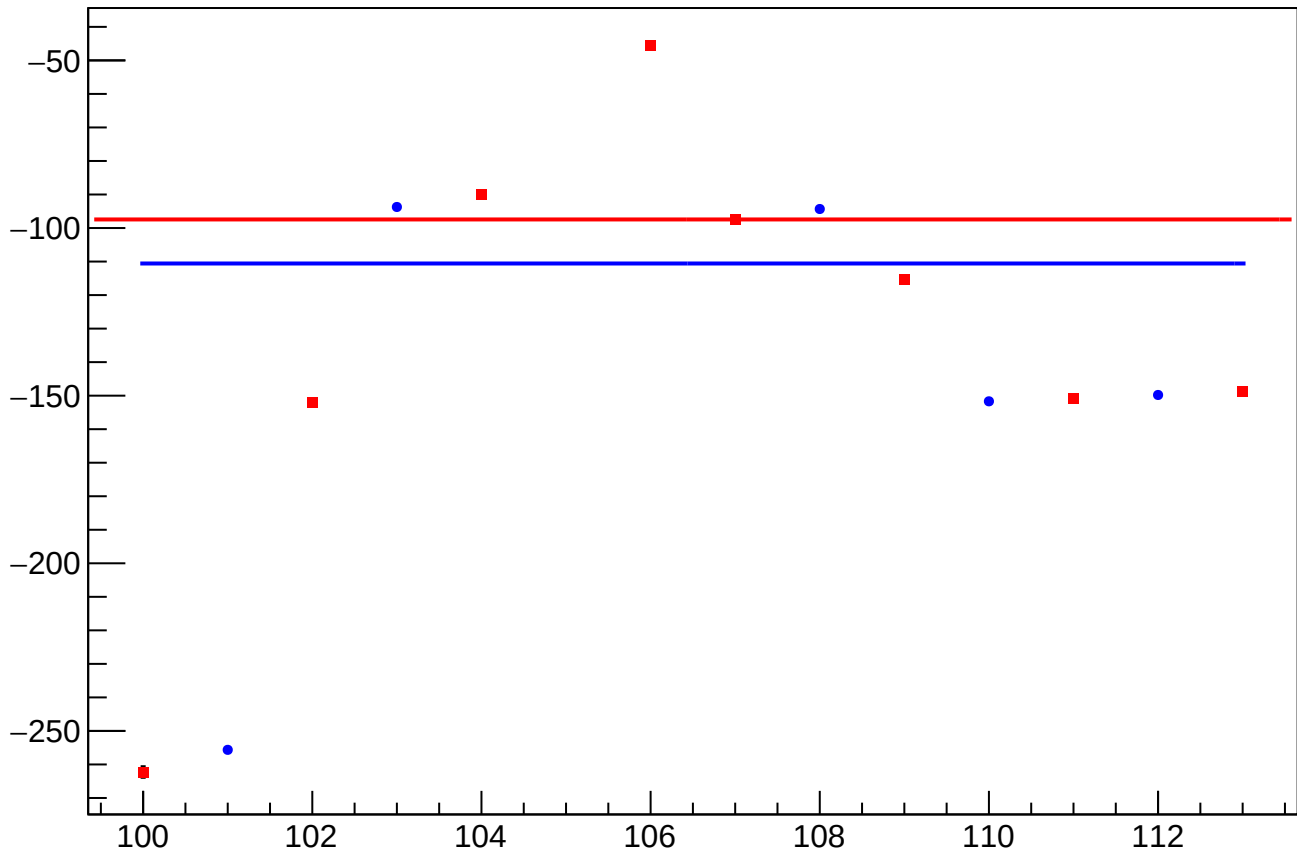
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.263 $\pm$ 2.015  $\chi^2$ /NDF: 103.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -110.578+/-0.127  $\chi^2/\text{NDF}$ : 101569.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -97.440+/-0.108  $\chi^2/\text{NDF}$ : 115210.6/7

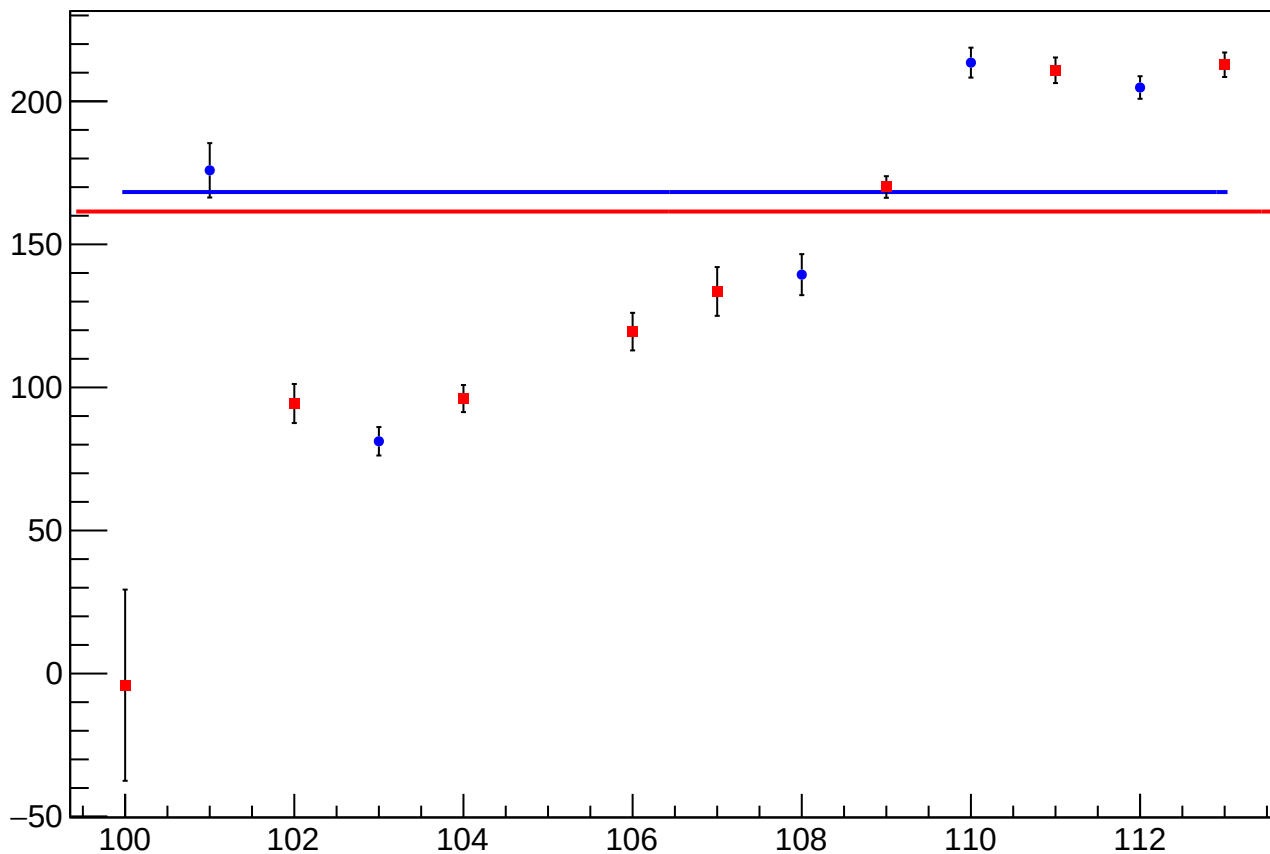
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -102.930+/-0.082  $\chi^2/\text{NDF}$ : 223013.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 168.284 $\pm$ 2.412  $\chi^2$ /NDF: 484.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 161.480 $\pm$ 1.895  $\chi^2$ /NDF: 633.3/7

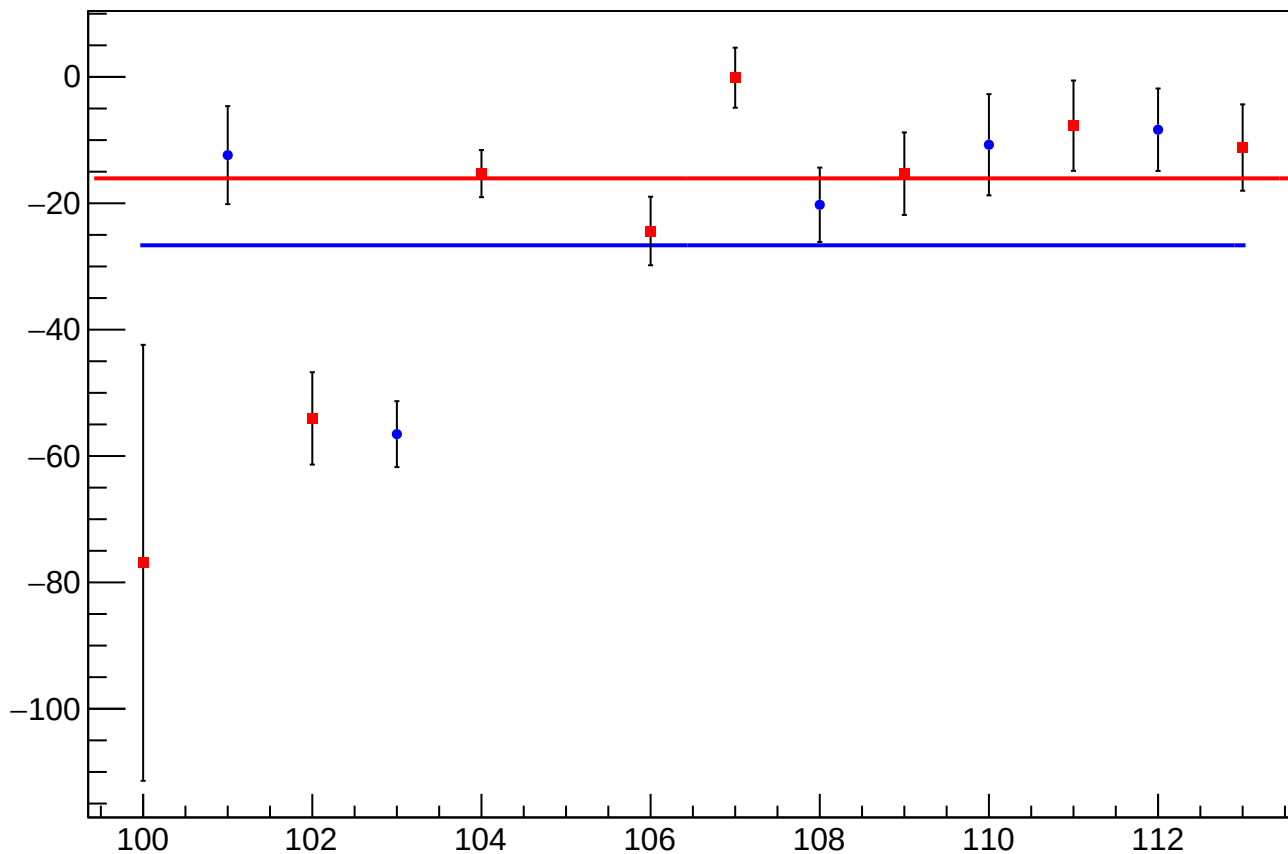
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 164.076 $\pm$ 1.490  $\chi^2$ /NDF: 1122.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-26.649 \pm 2.871$   $\chi^2/\text{NDF}$ : 49.2/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-16.056 \pm 2.067$   $\chi^2/\text{NDF}$ : 45.6/7

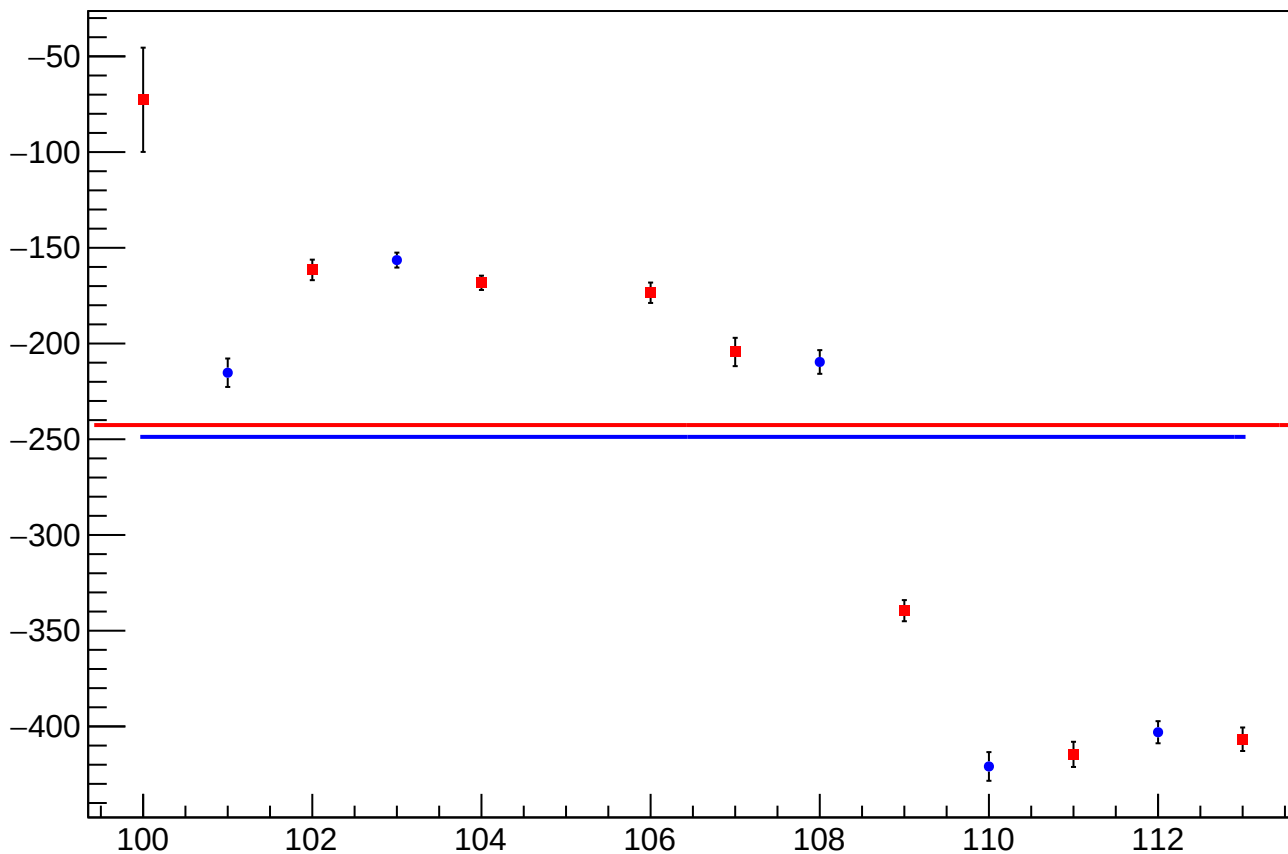
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-19.672 \pm 1.678$   $\chi^2/\text{NDF}$ : 103.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -248.759+/-2.519  $\chi^2/\text{NDF}$ : 1861.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -242.588+/-2.025  $\chi^2/\text{NDF}$ : 2565.7/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

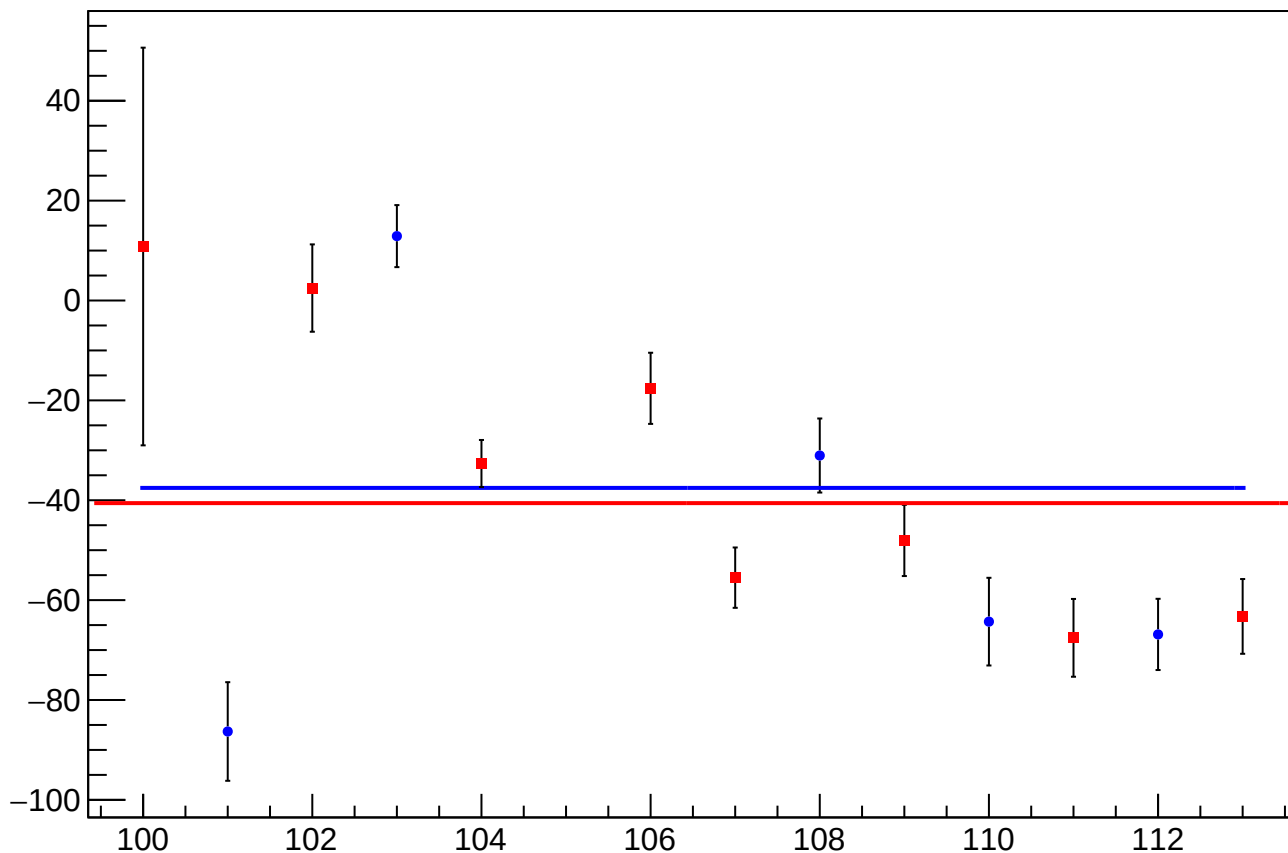
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -245.011+/-1.578  $\chi^2/\text{NDF}$ : 4430.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-37.527 \pm 3.390$   $\chi^2/\text{NDF}$ : 117.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-40.575 \pm 2.502$   $\chi^2/\text{NDF}$ : 67.5/7

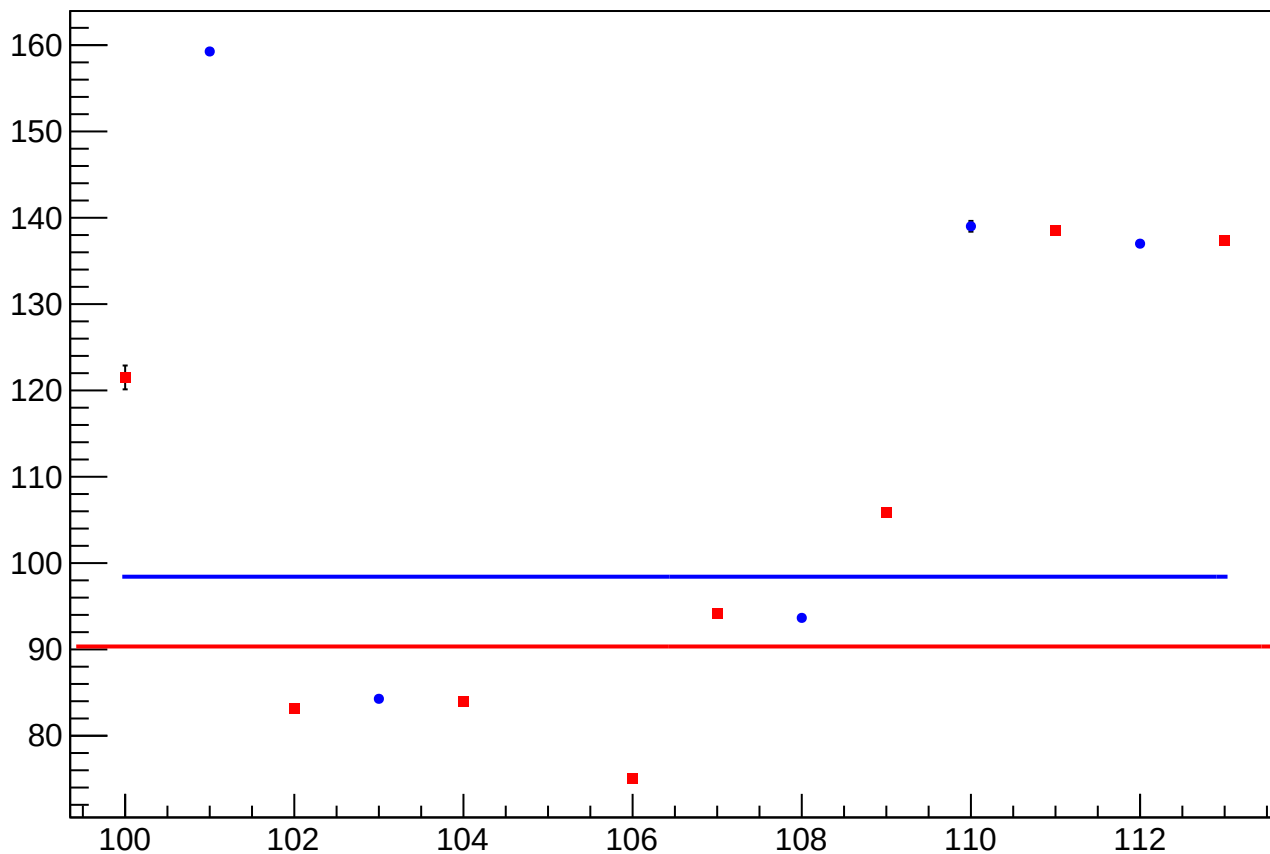
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-39.500 \pm 2.013$   $\chi^2/\text{NDF}$ : 185.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 98.424 $\pm$ 0.123  $\chi^2$ /NDF: 38452.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 90.340 $\pm$ 0.104  $\chi^2$ /NDF: 27080.9/7

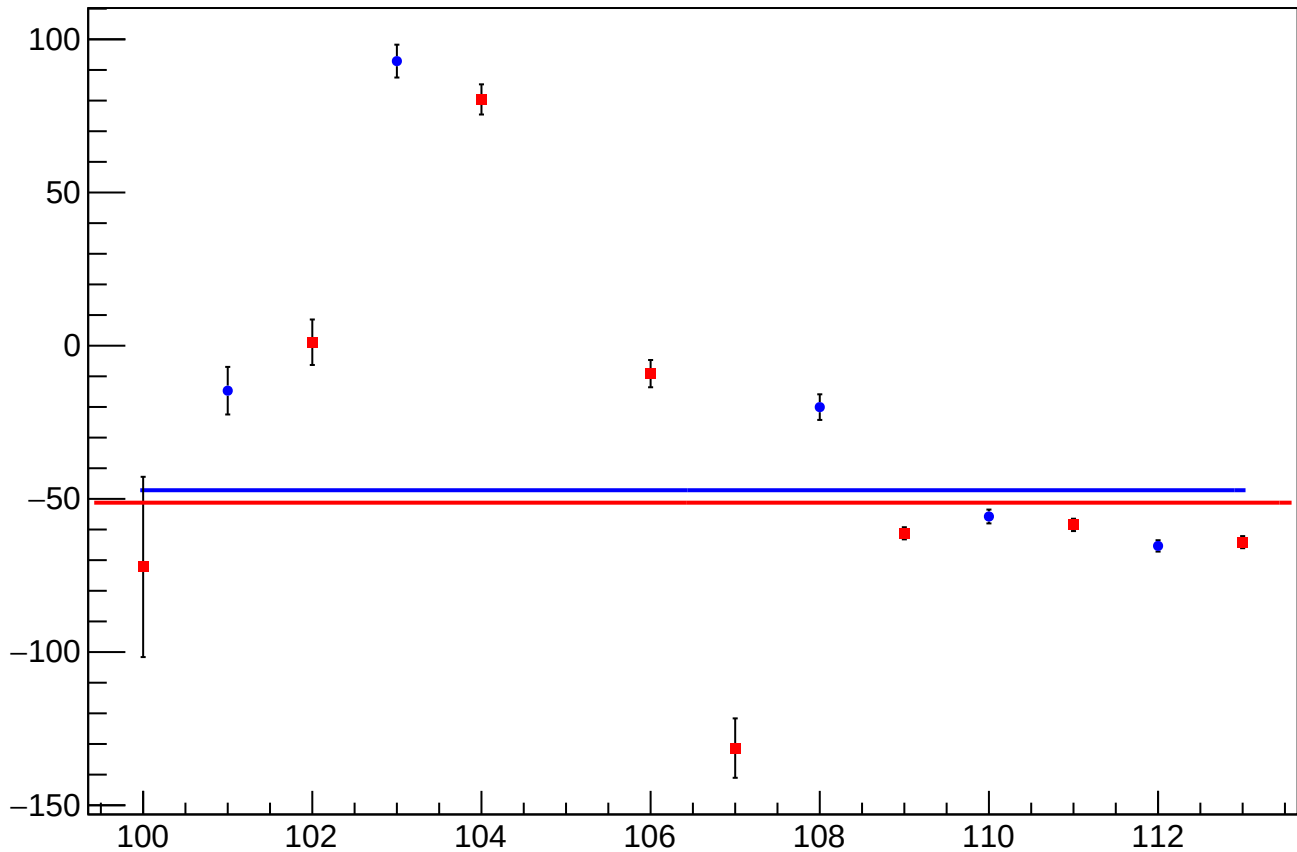
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 93.692 $\pm$ 0.079  $\chi^2$ /NDF: 68049.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-47.176 \pm 1.296$   $\chi^2/\text{NDF}$ : 851.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-51.240 \pm 1.067$   $\chi^2/\text{NDF}$ : 1003.6/7

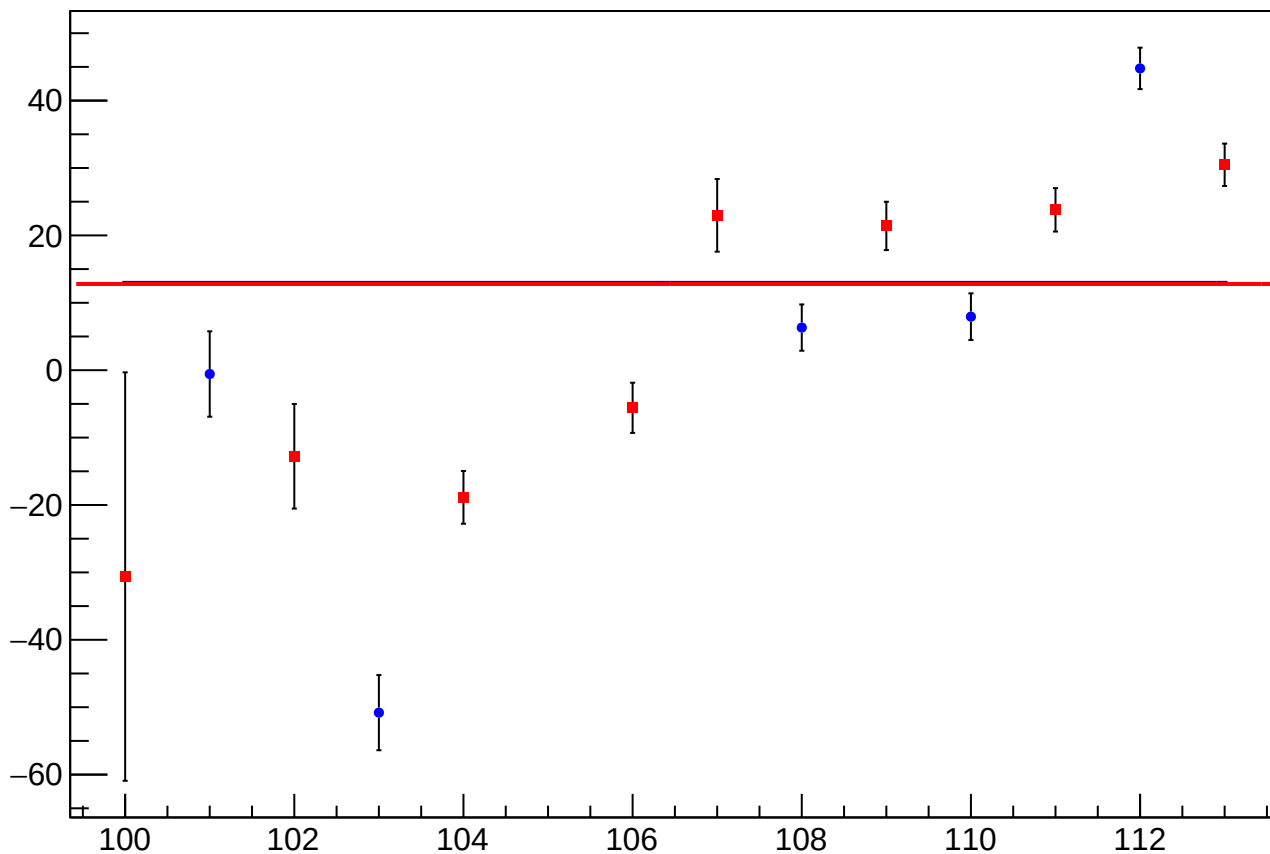
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-49.599 \pm 0.824$   $\chi^2/\text{NDF}$ : 1861.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 12.958+/-1.738  $\chi^2$ /NDF: 248.3/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 12.794+/-1.467  $\chi^2$ /NDF: 155.3/7

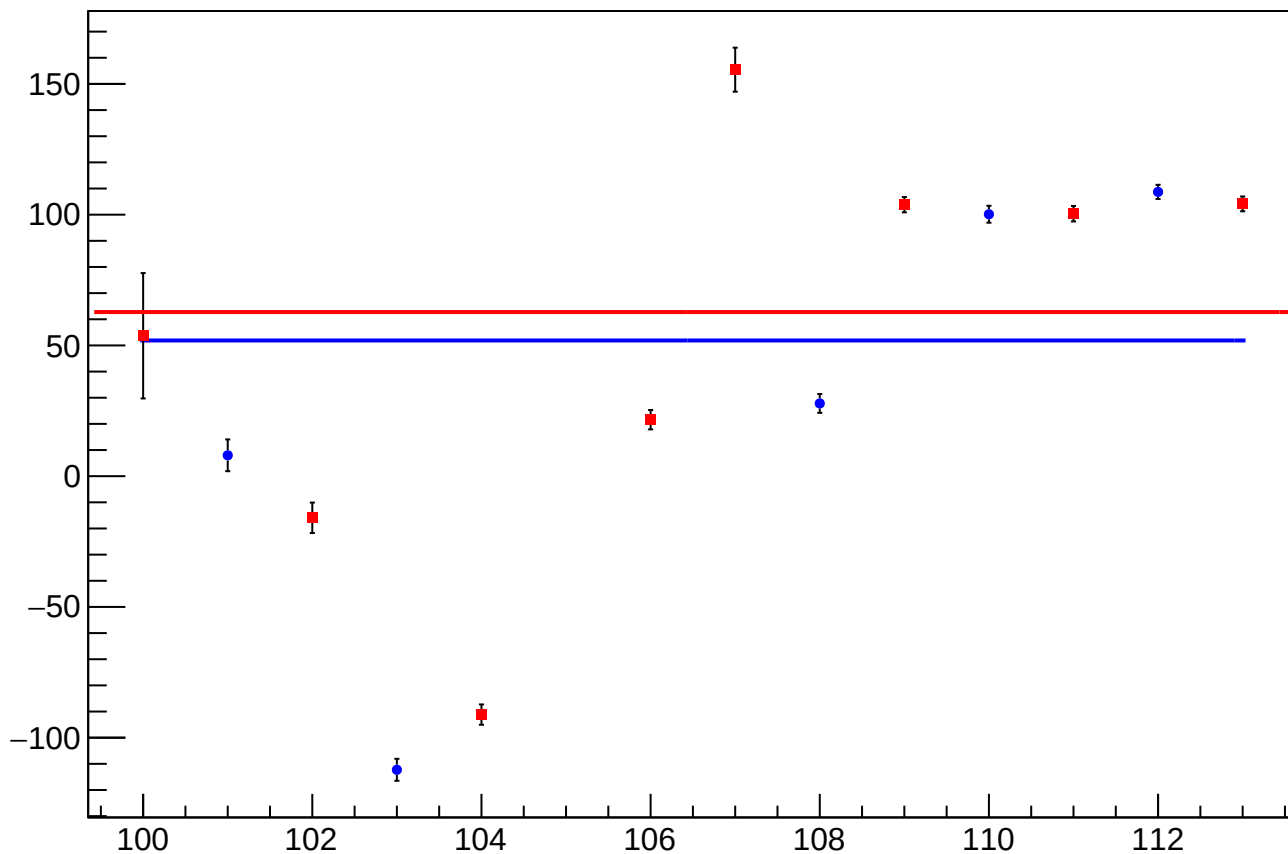
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 12.862+/-1.121  $\chi^2$ /NDF: 403.6/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 51.896+/-1.599  $\chi^2/\text{NDF}$ : 2278.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 62.761+/-1.360  $\chi^2/\text{NDF}$ : 2570.4/7

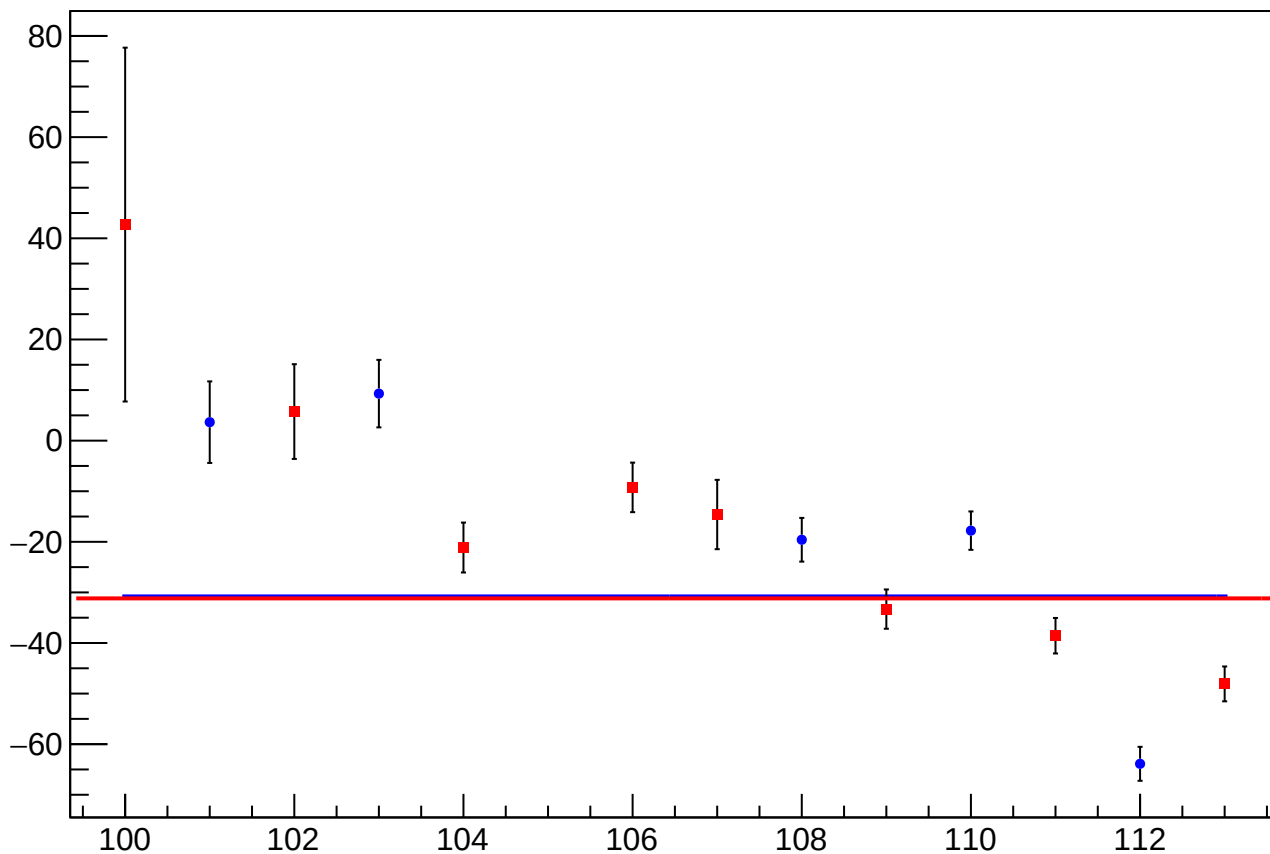
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 58.198+/-1.036  $\chi^2/\text{NDF}$ : 4876.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-30.797 \pm 2.001$   $\chi^2/\text{NDF}$ : 170.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-31.183 \pm 1.695$   $\chi^2/\text{NDF}$ : 78.9/7

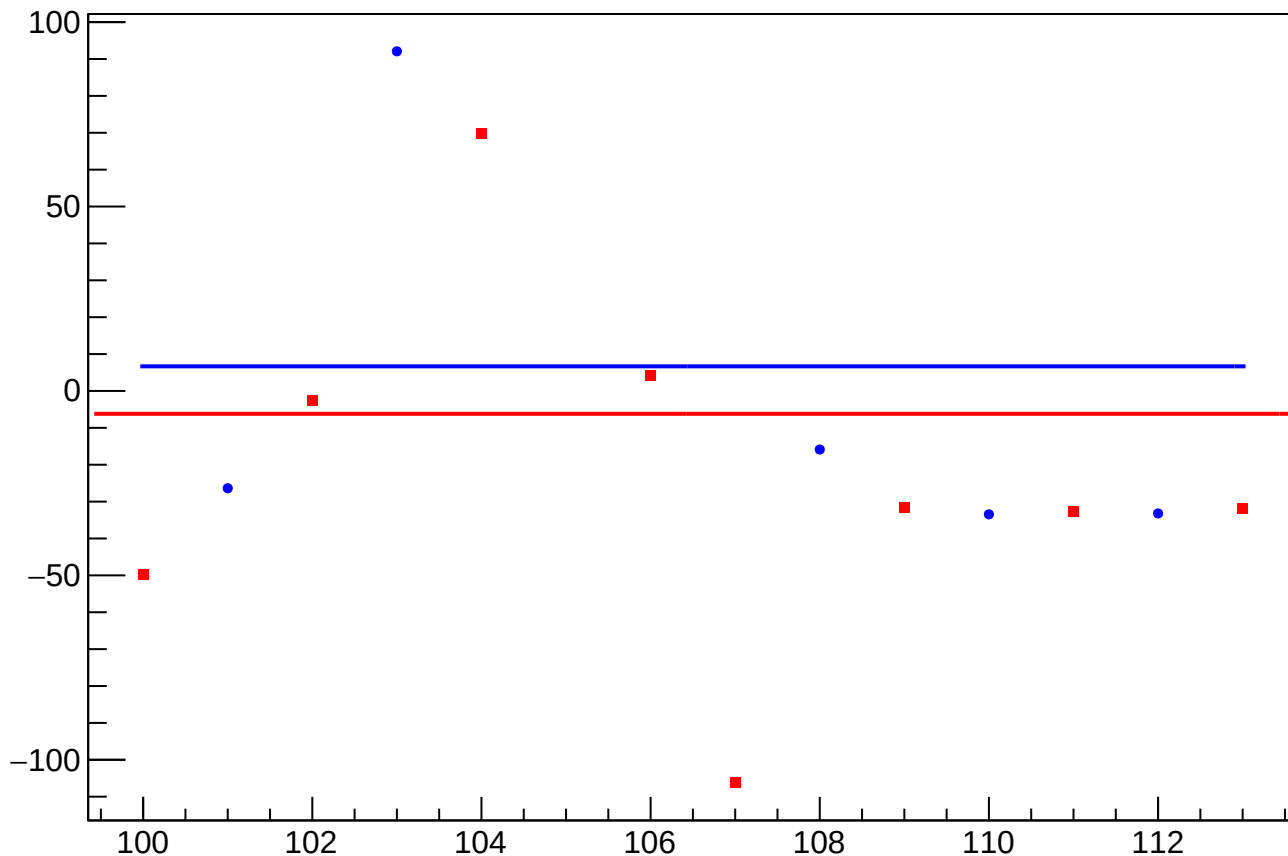
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-31.022 \pm 1.293$   $\chi^2/\text{NDF}$ : 248.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 6.674 $\pm$ 0.090  $\chi^2$ /NDF: 323618.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -6.192 $\pm$ 0.081  $\chi^2$ /NDF: 298113.9/7

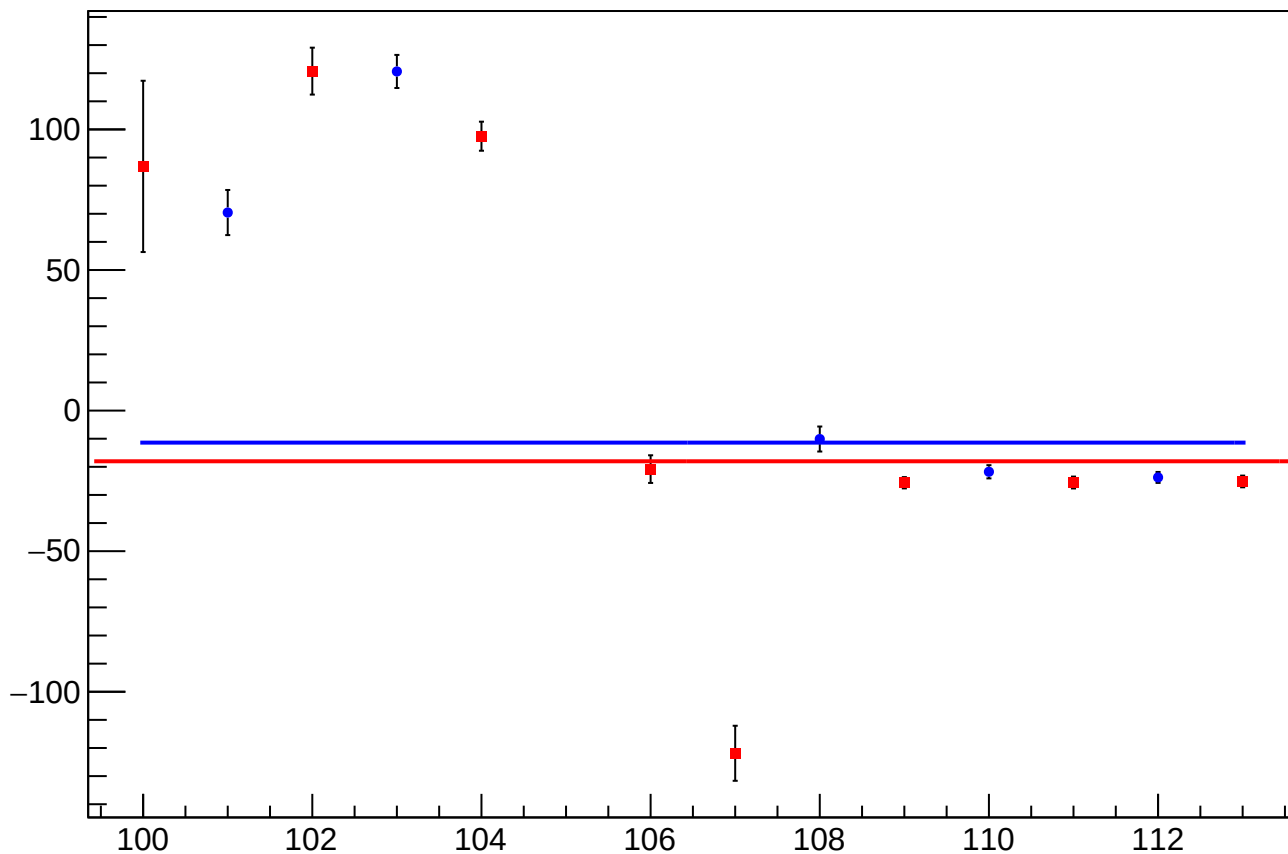
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.450 $\pm$ 0.060  $\chi^2$ /NDF: 632933.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-11.389 \pm 1.360$   $\chi^2/\text{NDF}$ : 667.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-18.027 \pm 1.113$   $\chi^2/\text{NDF}$ : 941.1/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

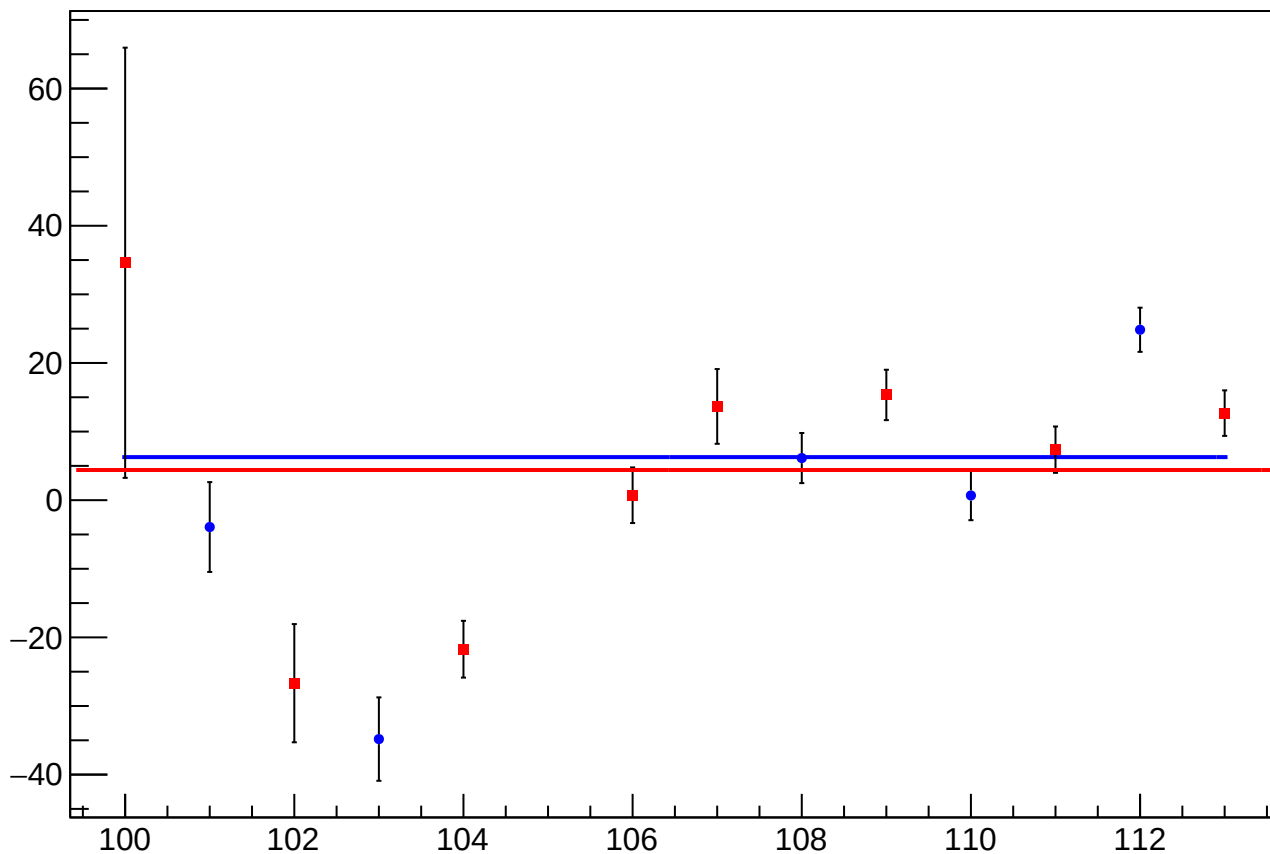
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-15.365 \pm 0.862$   $\chi^2/\text{NDF}$ : 1623.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 6.278 $\pm$ 1.830  $\chi^2$ /NDF: 83.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.397 $\pm$ 1.543  $\chi^2$ /NDF: 73.4/7

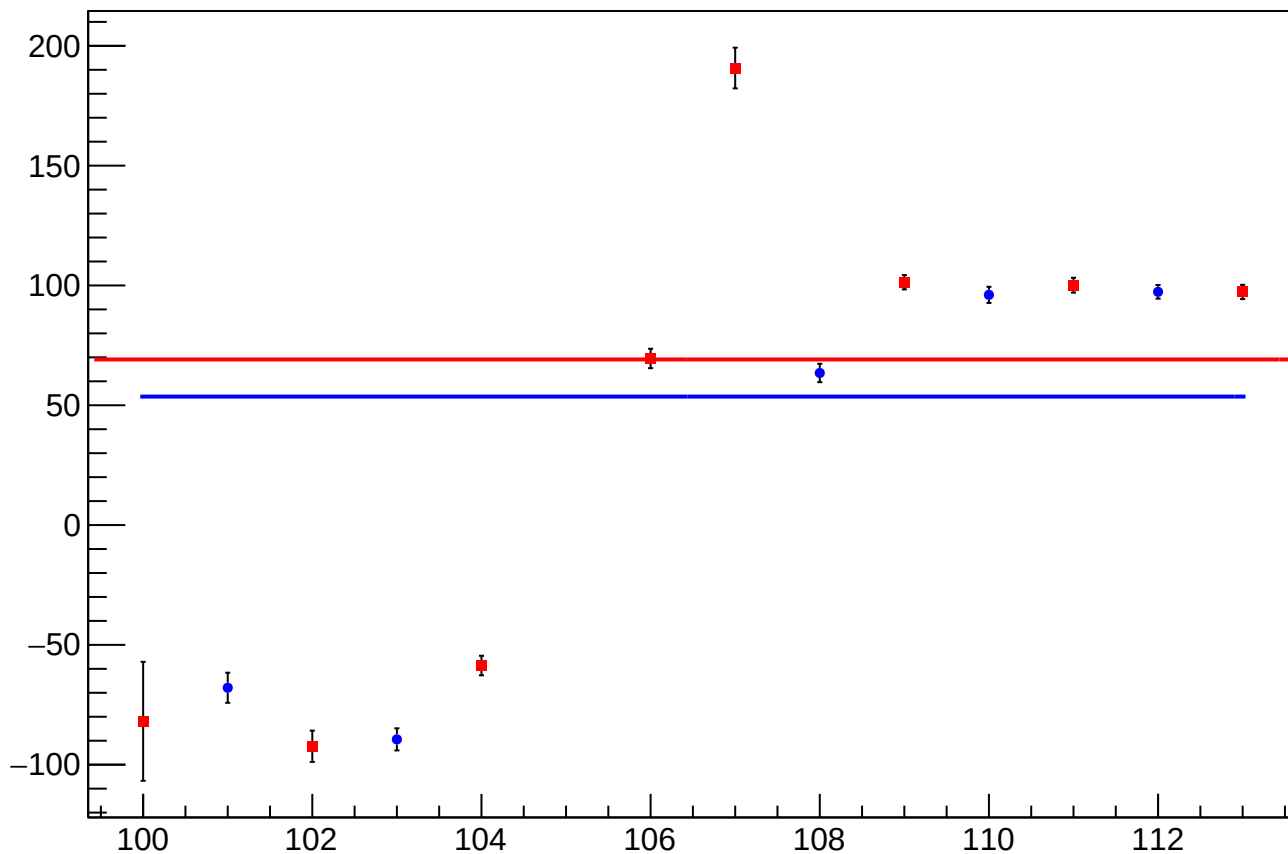
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.178 $\pm$ 1.179  $\chi^2$ /NDF: 157.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 53.624+/-1.686  $\chi^2/\text{NDF}$ : 1737.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.122+/-1.431  $\chi^2/\text{NDF}$ : 2138.8/7

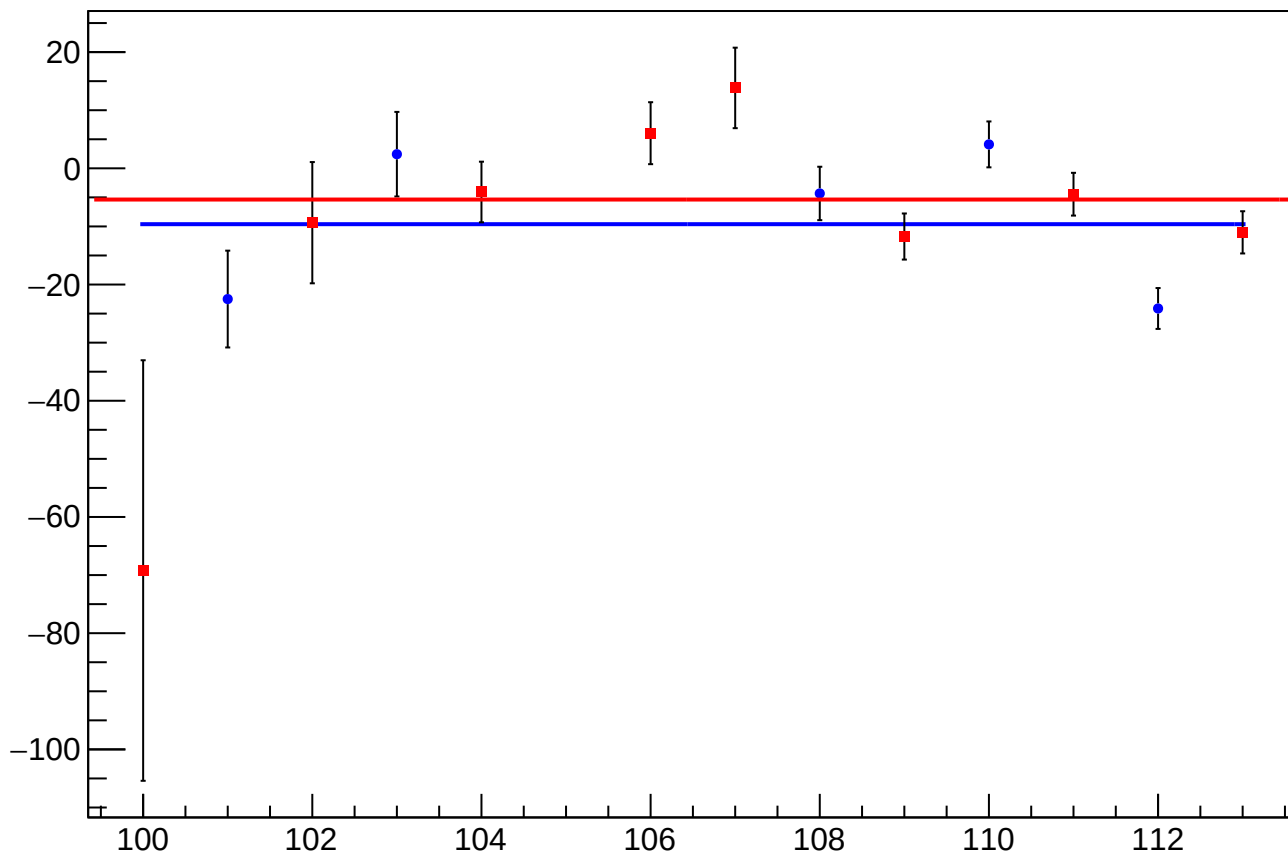
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 62.635+/-1.091  $\chi^2/\text{NDF}$ : 3925.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-9.613 \pm 2.105$   $\chi^2/\text{NDF}$ : 35.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-5.372 \pm 1.779$   $\chi^2/\text{NDF}$ : 20.7/7

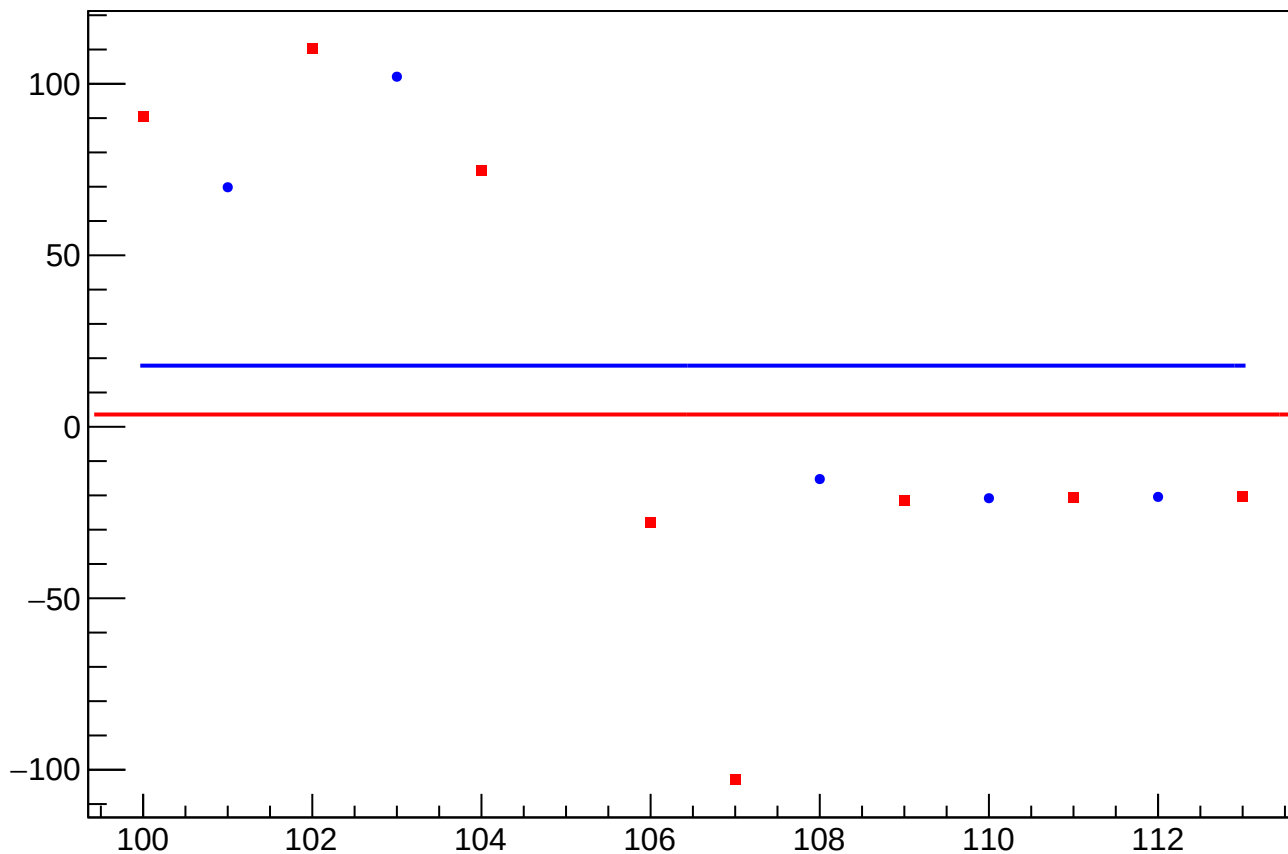
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-7.139 \pm 1.359$   $\chi^2/\text{NDF}$ : 58.6/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 17.831+/-0.096  $\chi^2/\text{NDF}$ : 301606.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.585+/-0.086  $\chi^2/\text{NDF}$ : 434074.4/7

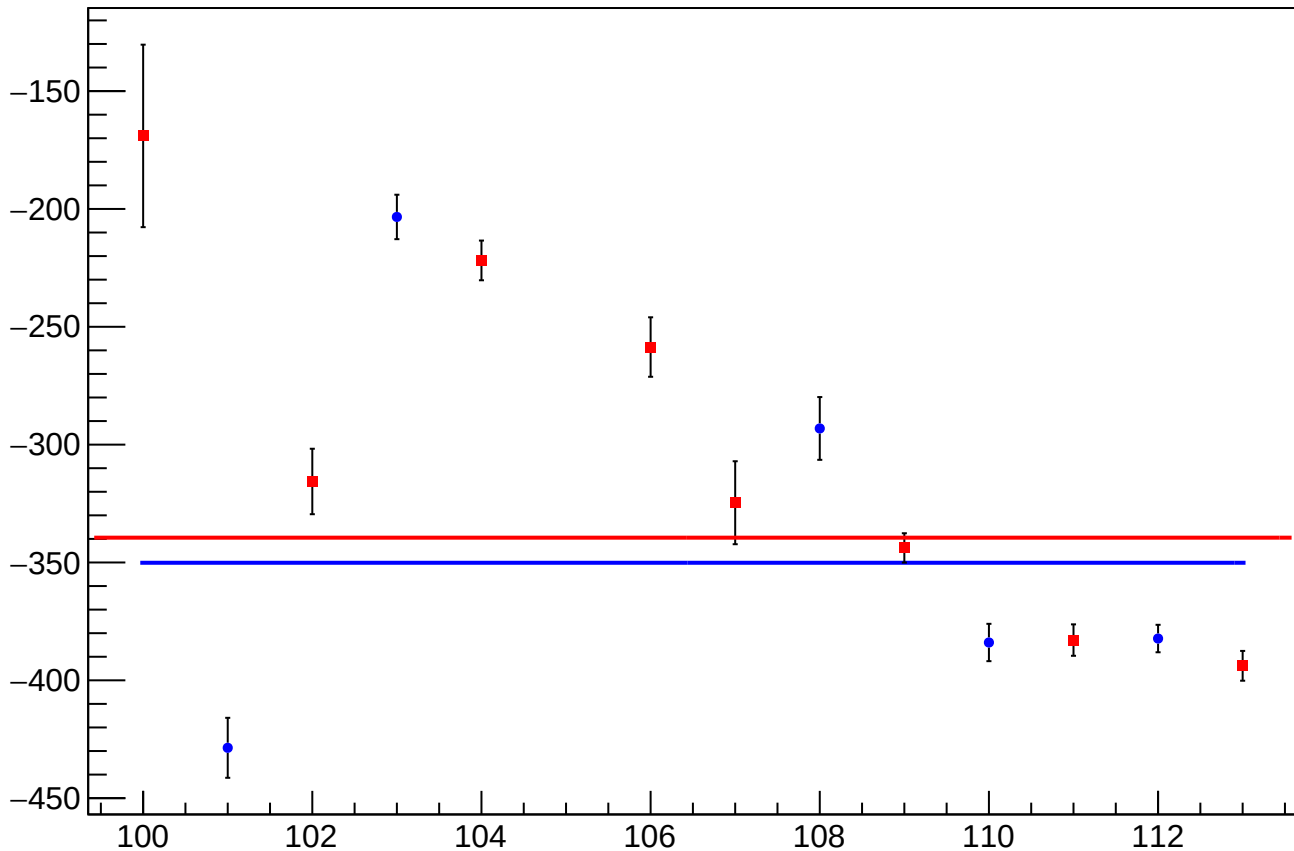
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.930+/-0.064  $\chi^2/\text{NDF}$ : 747797.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -350.123+/-3.822  $\chi^2/\text{NDF}$ : 347.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -339.472+/-3.120  $\chi^2/\text{NDF}$ : 376.0/7

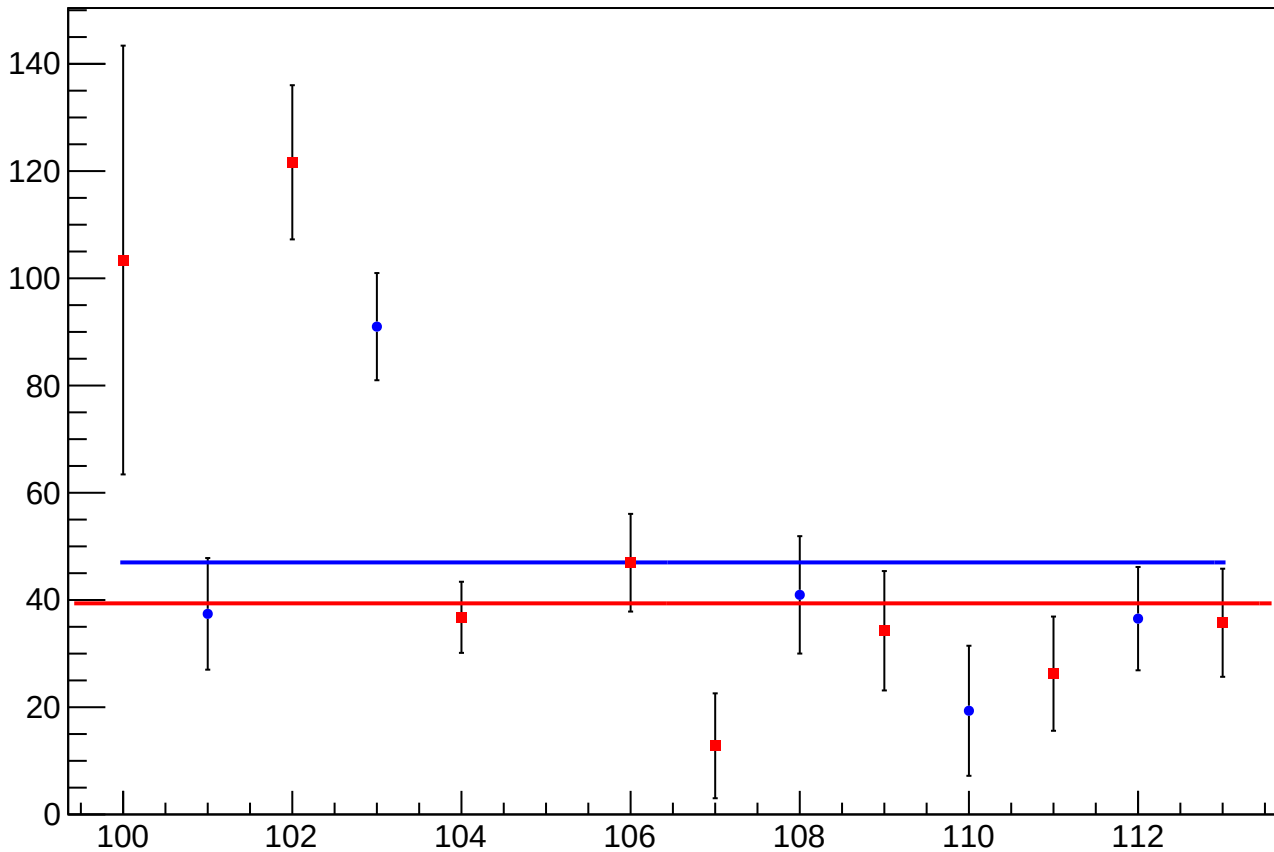
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -343.732+/-2.417  $\chi^2/\text{NDF}$ : 727.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 47.009+/-4.707  $\chi^2/\text{NDF}$ : 26.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.374+/-3.594  $\chi^2/\text{NDF}$ : 45.4/7

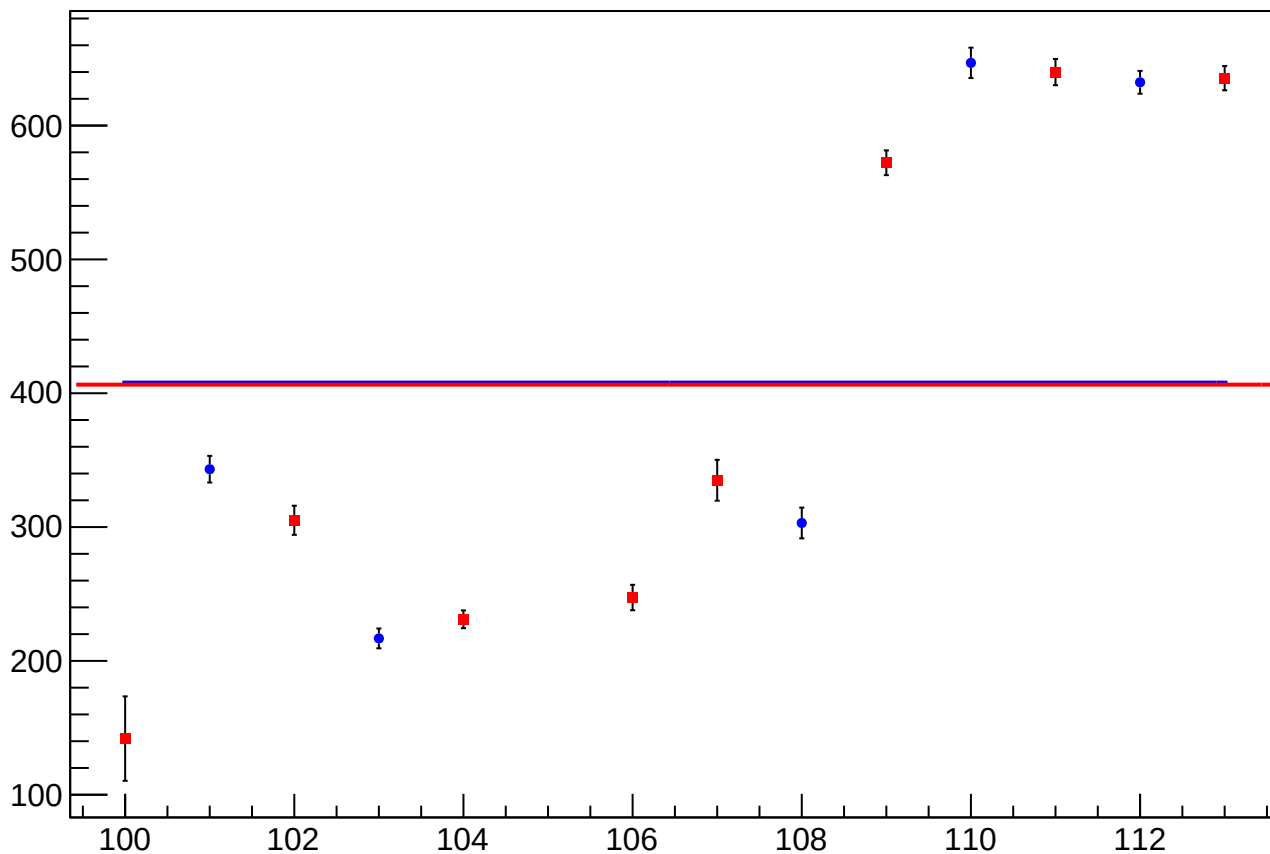
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 42.186+/-2.857  $\chi^2/\text{NDF}$ : 73.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 407.937 $\pm$ 4.173  $\chi^2$ /NDF: 1927.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 406.411 $\pm$ 3.497  $\chi^2$ /NDF: 2684.6/7

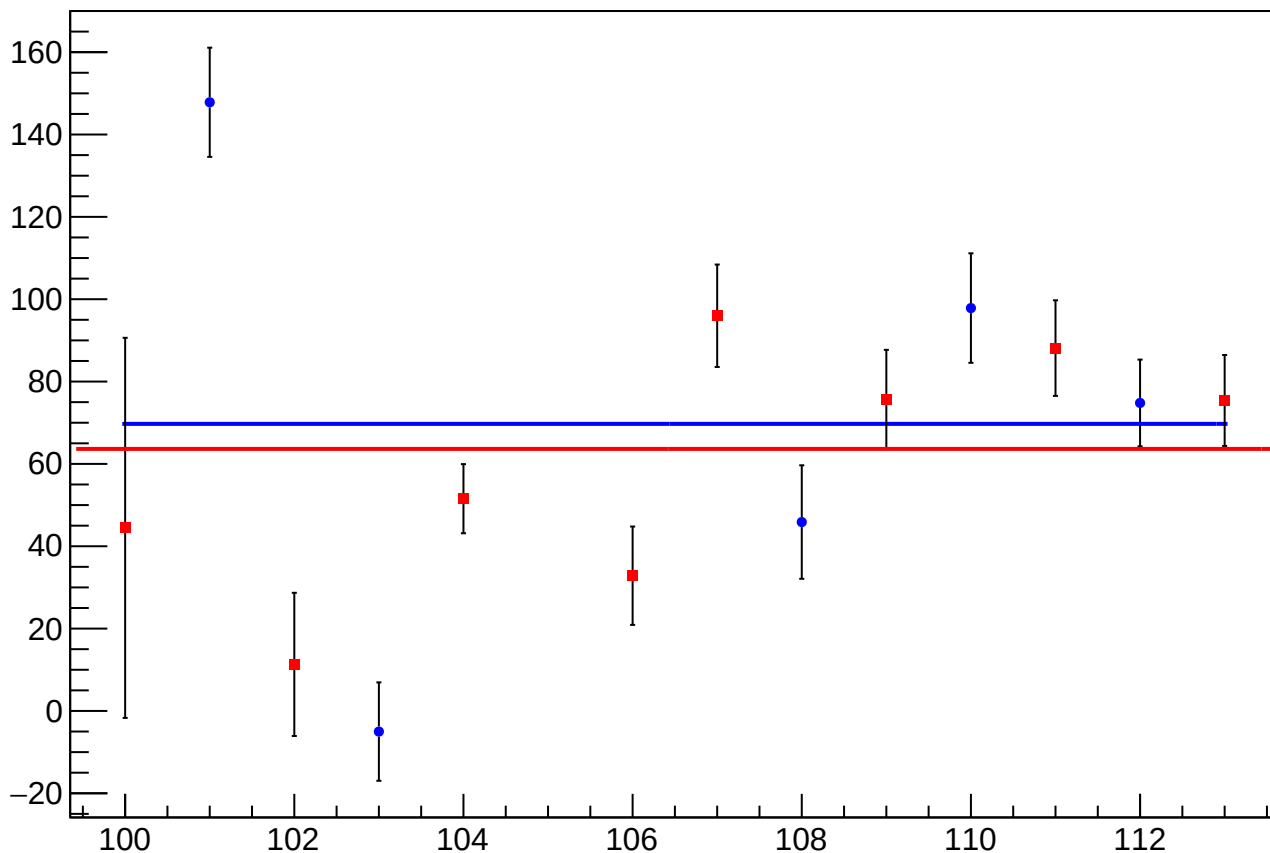
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 407.040 $\pm$ 2.680  $\chi^2$ /NDF: 4612.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 69.727 $\pm$ 5.536  $\chi^2$ /NDF: 81.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 63.643 $\pm$ 4.306  $\chi^2$ /NDF: 31.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

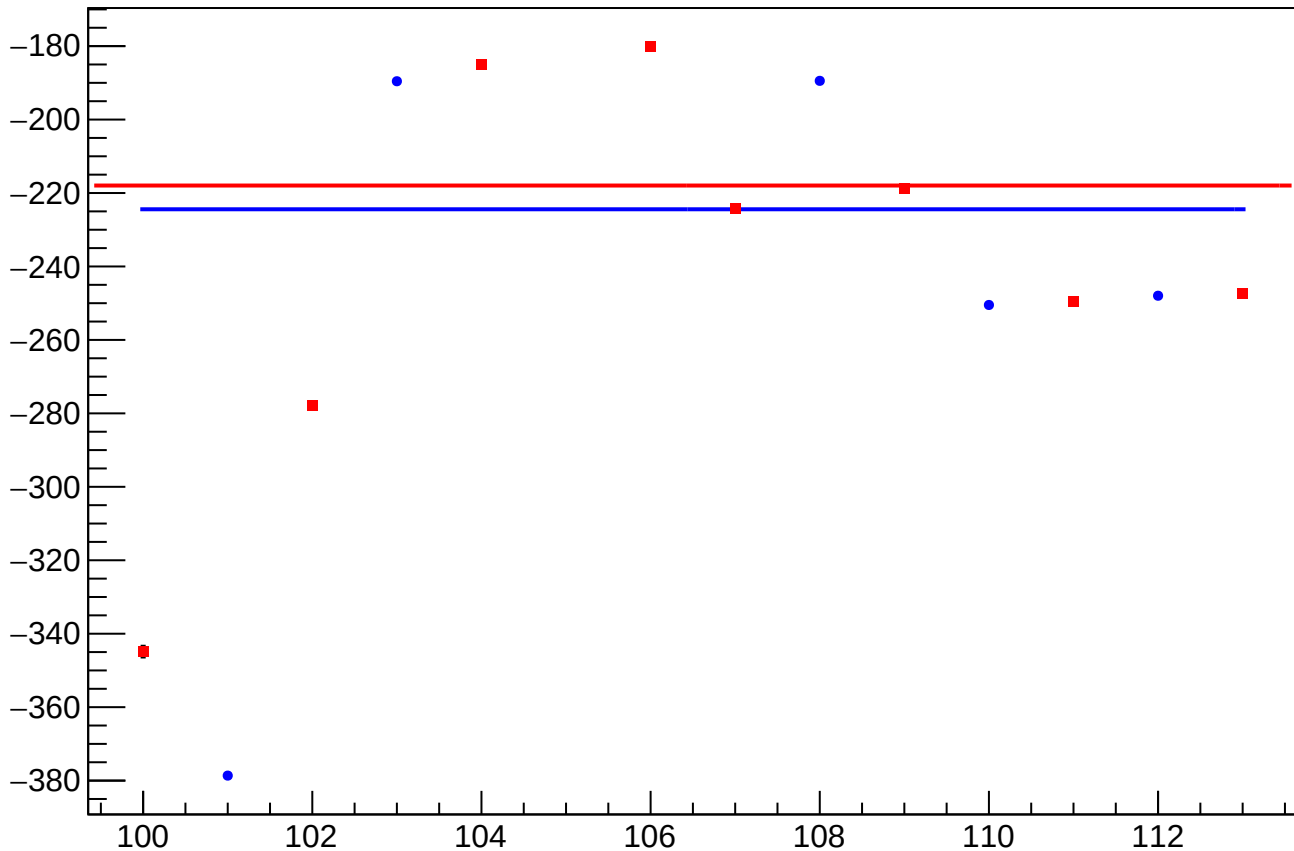
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 65.936 $\pm$ 3.399  $\chi^2$ /NDF: 113.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -224.427+/-0.218  $\chi^2/\text{NDF}$ : 87361.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -217.962+/-0.193  $\chi^2/\text{NDF}$ : 41675.0/7

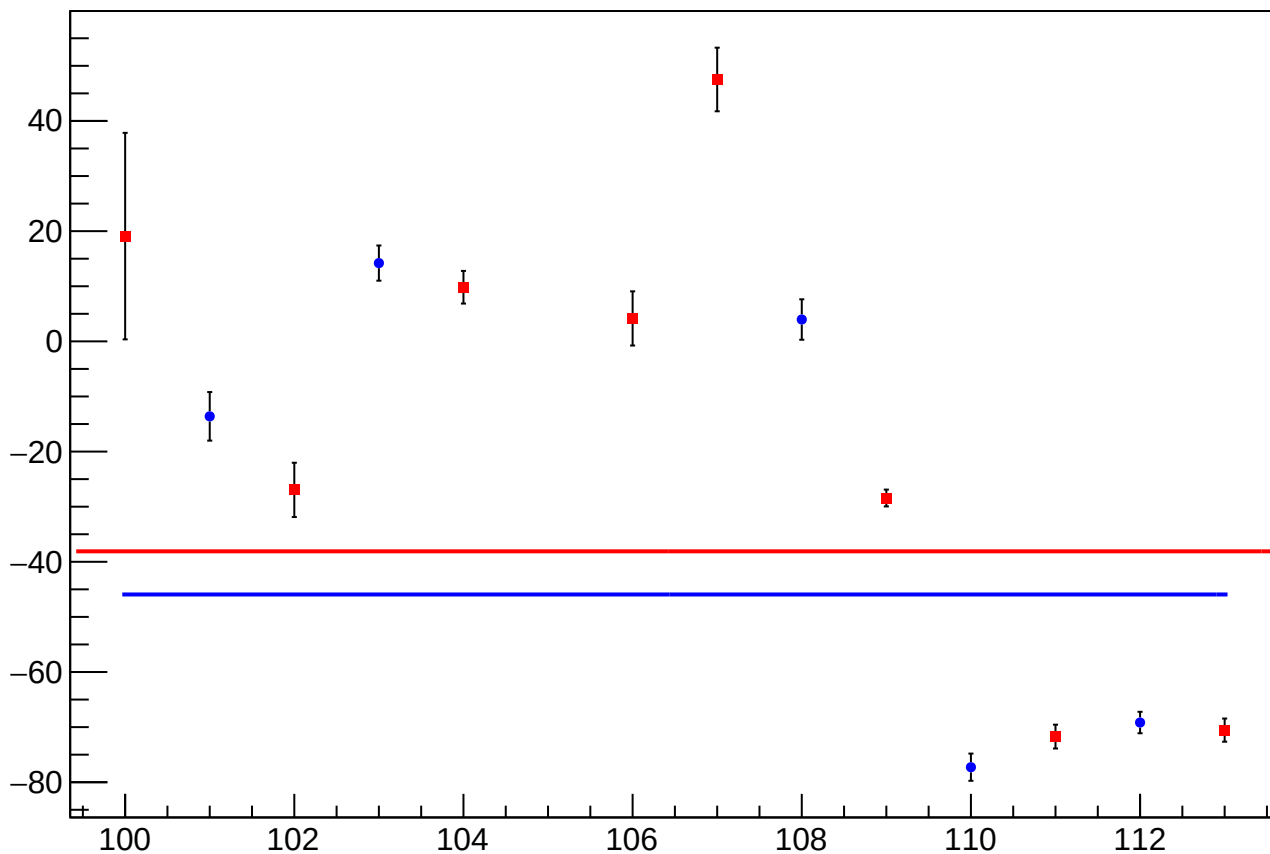
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -220.799+/-0.144  $\chi^2/\text{NDF}$ : 129529.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-45.930 \pm 1.239$   $\chi^2/\text{NDF}$ : 897.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-38.101 \pm 0.954$   $\chi^2/\text{NDF}$ : 1090.7/7

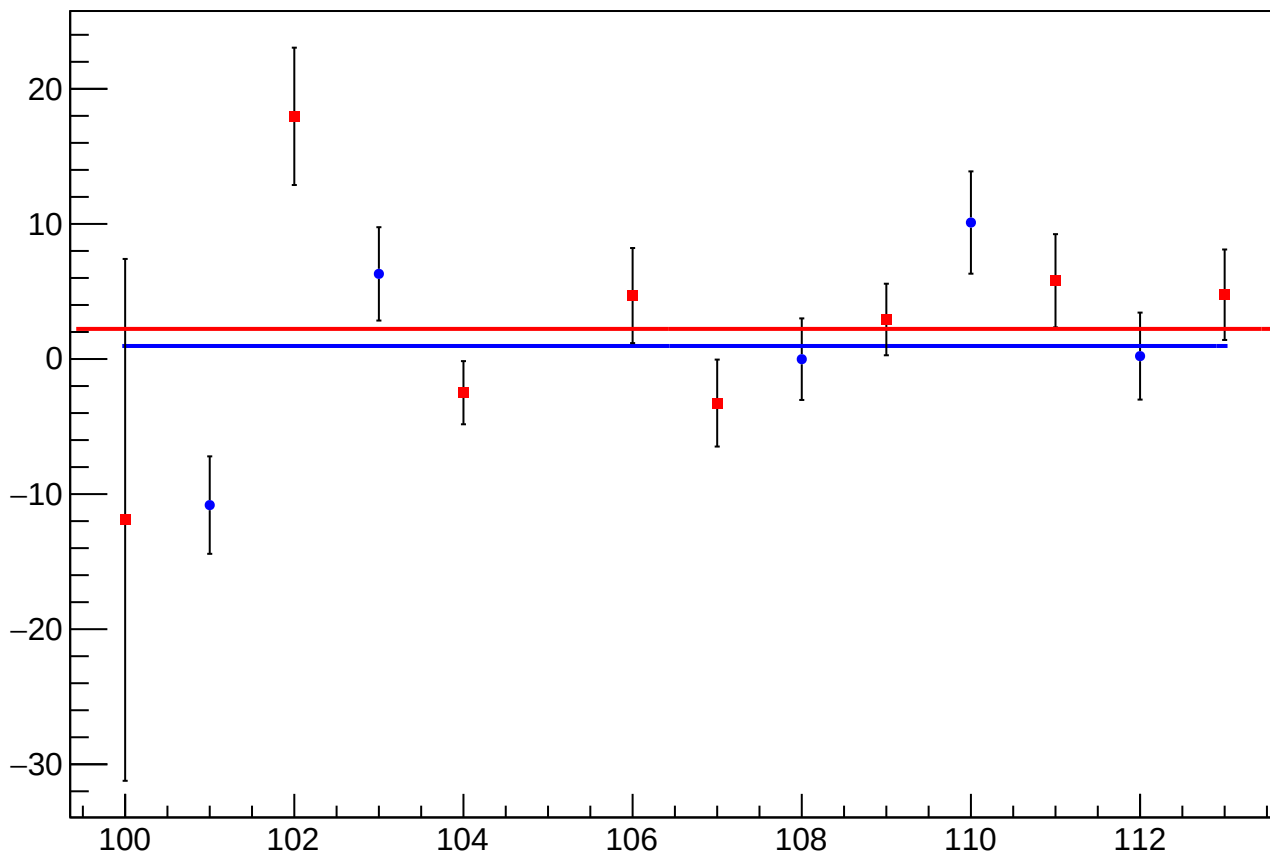
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-41.015 \pm 0.756$   $\chi^2/\text{NDF}$ : 2013.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.965 $\pm$ 1.514  $\chi^2$ /NDF: 19.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.229 $\pm$ 1.181  $\chi^2$ /NDF: 19.3/7

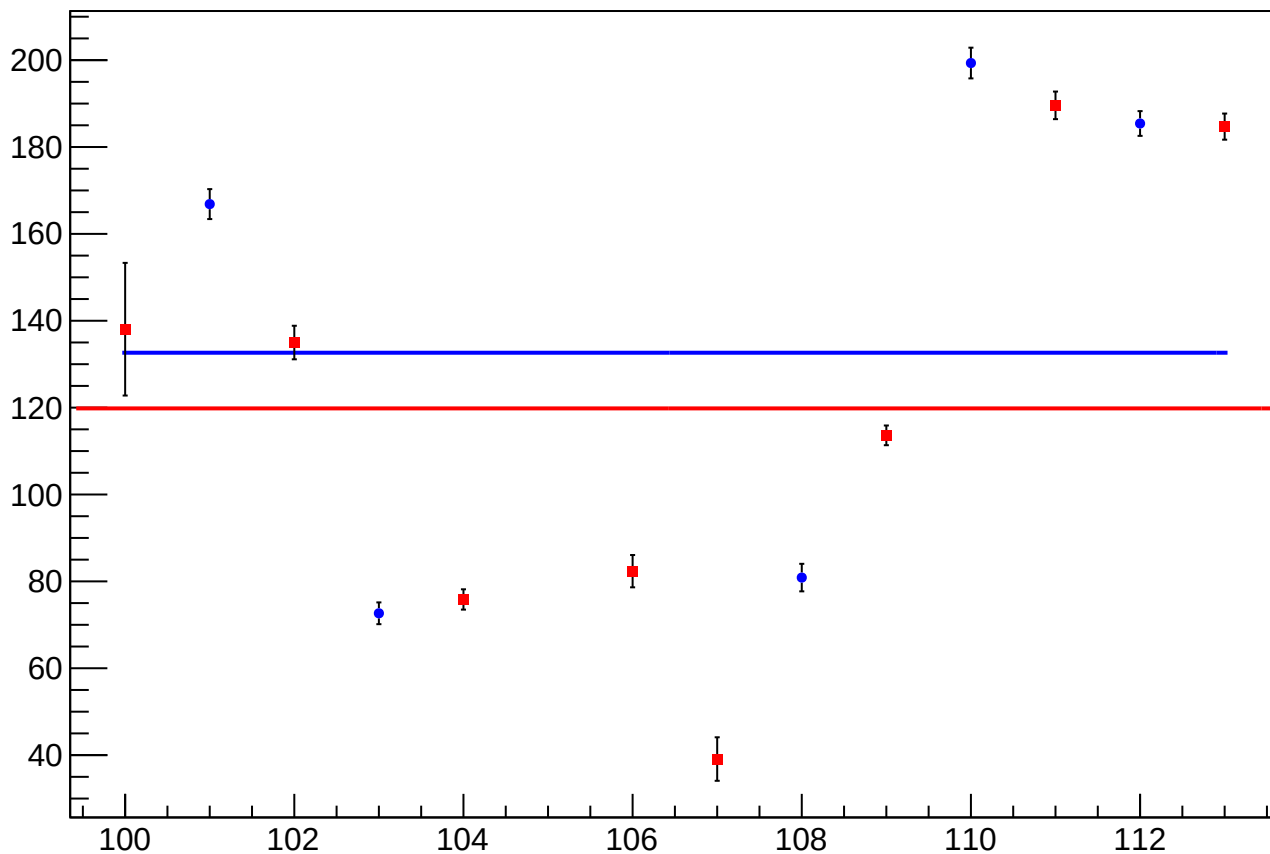
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.751 $\pm$ 0.931  $\chi^2$ /NDF: 38.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 132.640 $\pm$ 1.353  $\chi^2$ /NDF: 1636.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 119.822 $\pm$ 1.139  $\chi^2$ /NDF: 1687.7/7

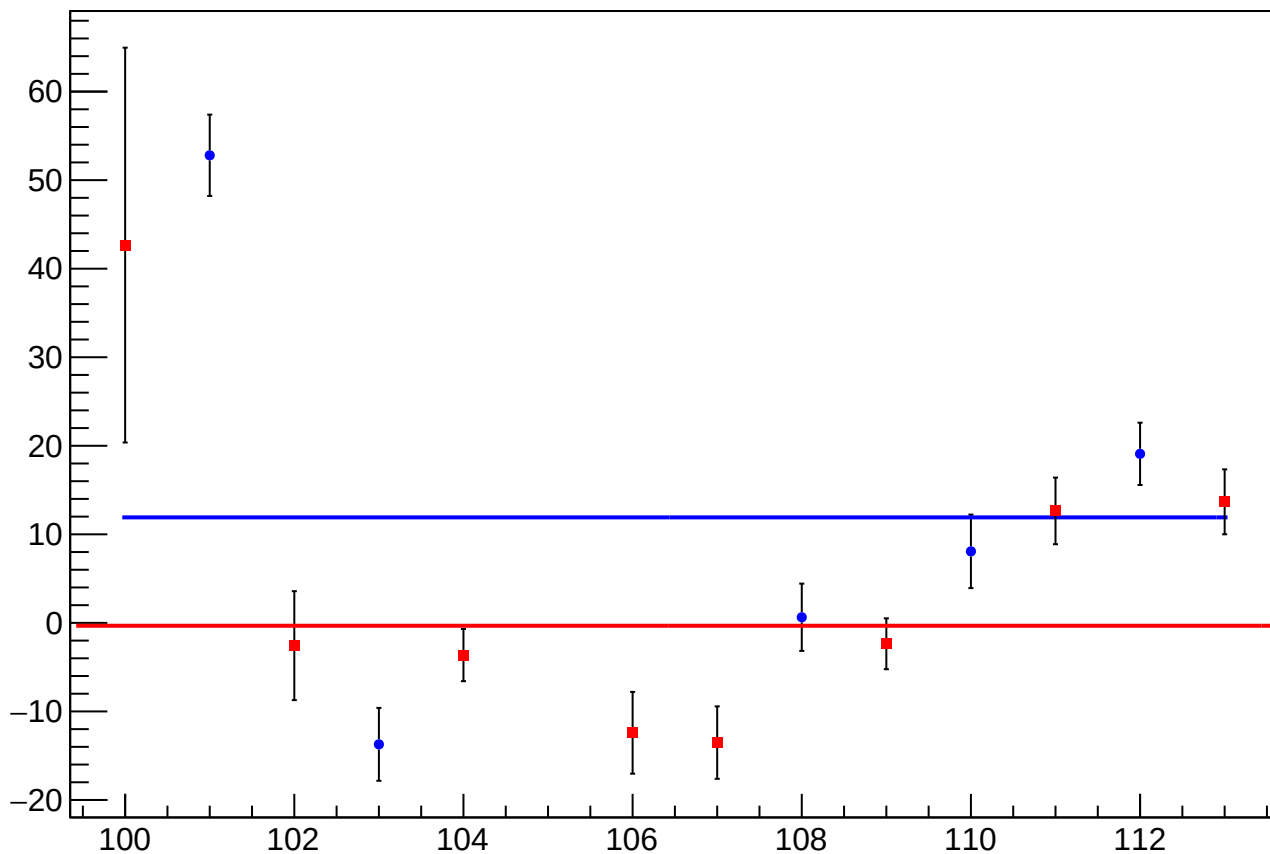
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 125.138 $\pm$ 0.872  $\chi^2$ /NDF: 3377.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 11.915 $\pm$ 1.783  $\chi^2$ /NDF: 131.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.324 $\pm$ 1.392  $\chi^2$ /NDF: 49.3/7

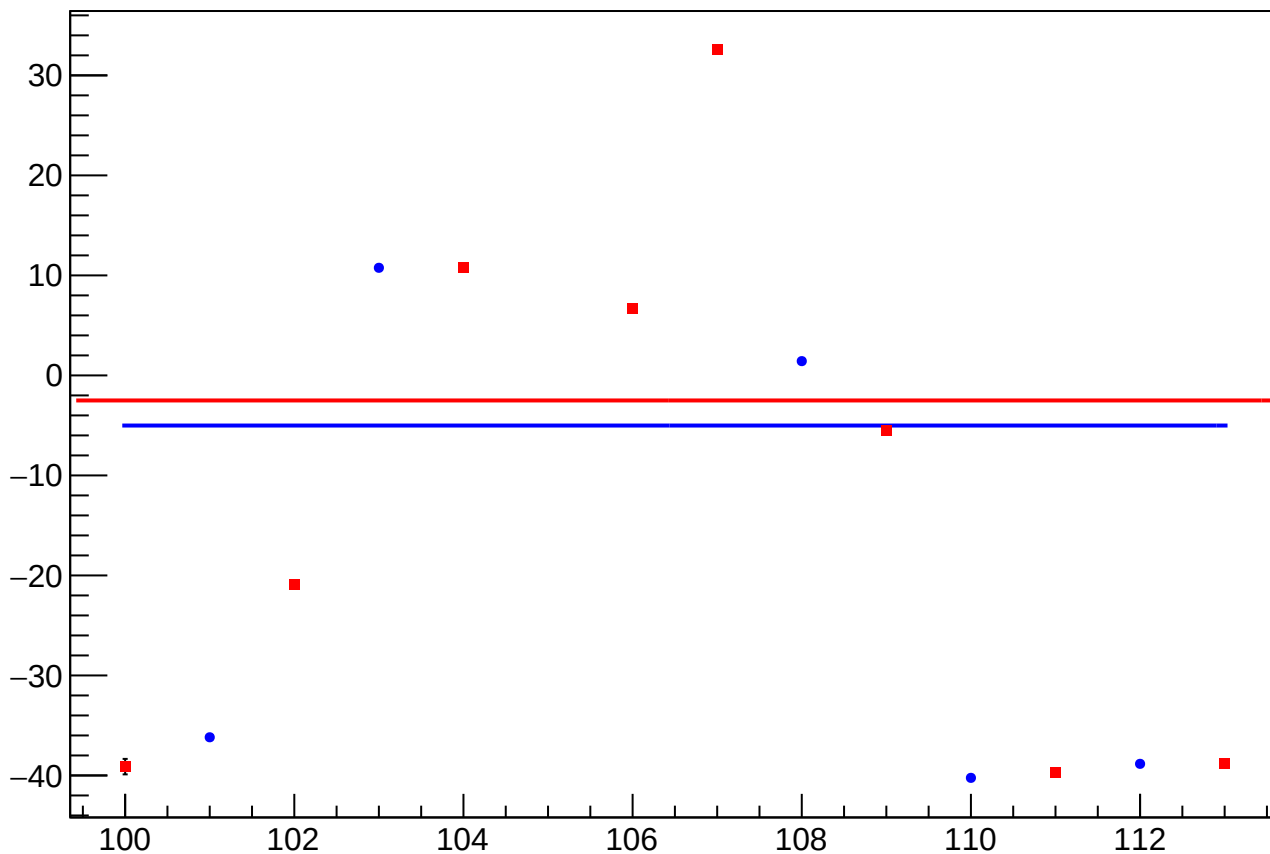
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.309 $\pm$ 1.097  $\chi^2$ /NDF: 210.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-5.012 \pm 0.070$   $\chi^2/\text{NDF}$ : 85534.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.504 \pm 0.065$   $\chi^2/\text{NDF}$ : 107933.0/7

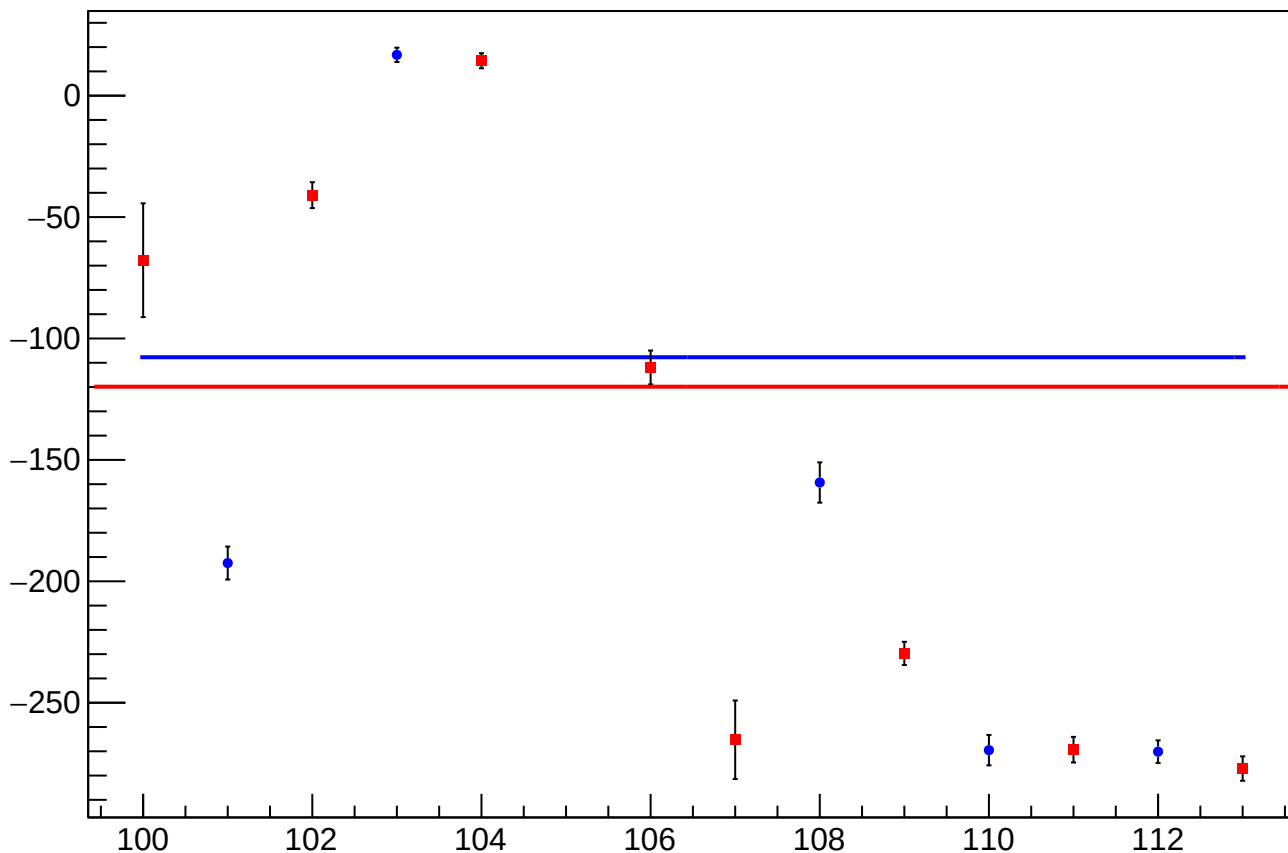
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-3.666 \pm 0.047$   $\chi^2/\text{NDF}$ : 194163.6/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-107.718 \pm 2.120$   $\chi^2/\text{NDF}$ : 3859.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-119.850 \pm 1.875$   $\chi^2/\text{NDF}$ : 4486.1/7

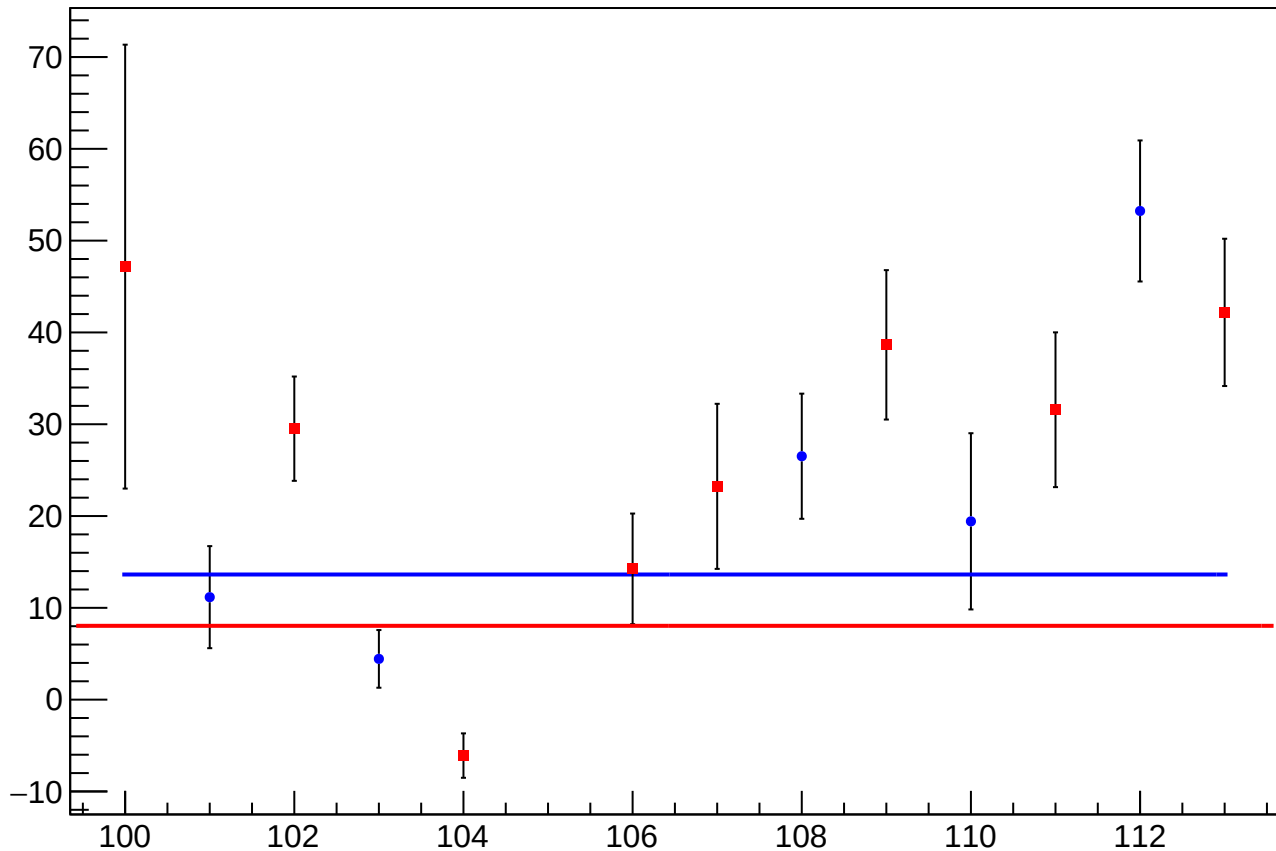
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-114.526 \pm 1.405$   $\chi^2/\text{NDF}$ : 8363.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 13.632 $\pm$ 2.338  $\chi^2$ /NDF: 39.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8.041 $\pm$ 1.863  $\chi^2$ /NDF: 95.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

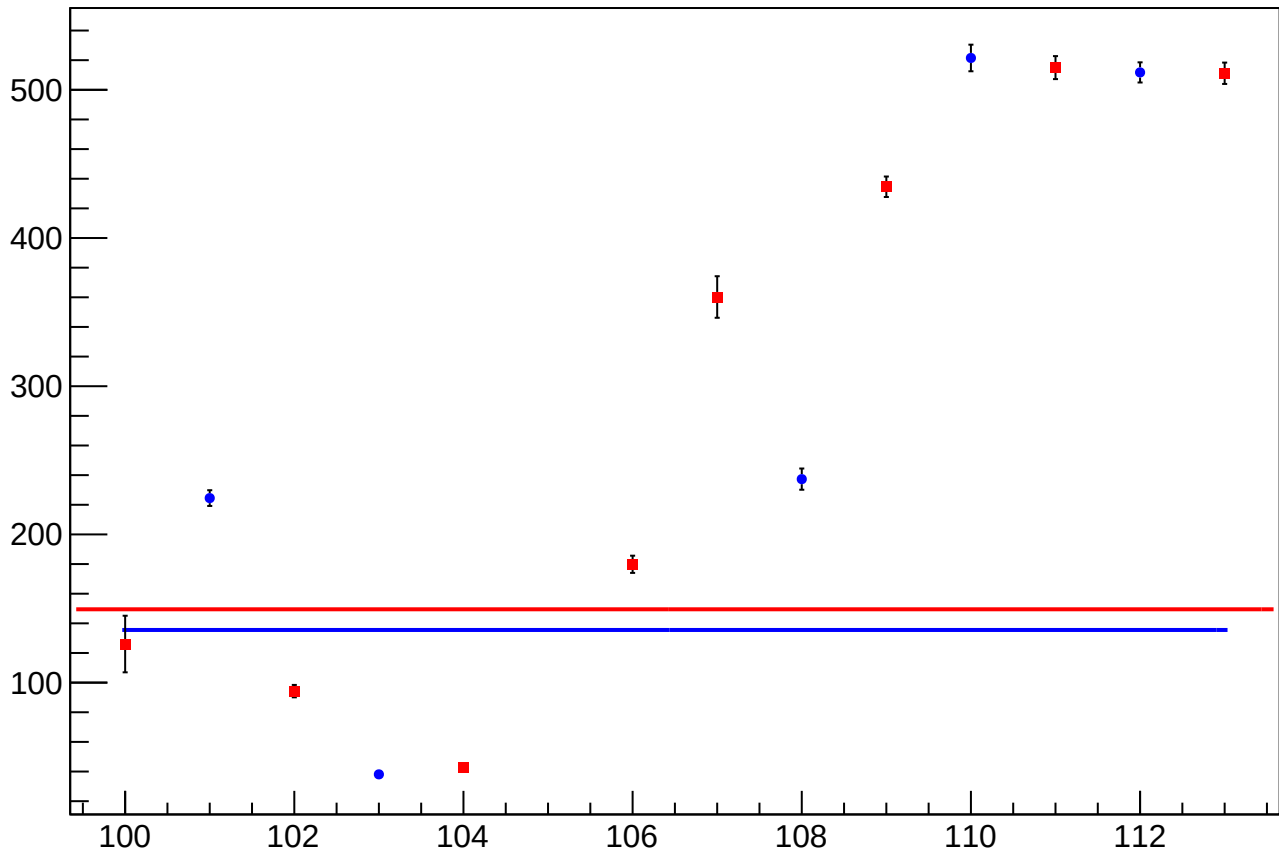
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.212 $\pm$ 1.457  $\chi^2$ /NDF: 137.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 135.525+/-1.909  $\chi^2/\text{NDF}$ : 7152.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 149.477+/-1.773  $\chi^2/\text{NDF}$ : 8766.6/7

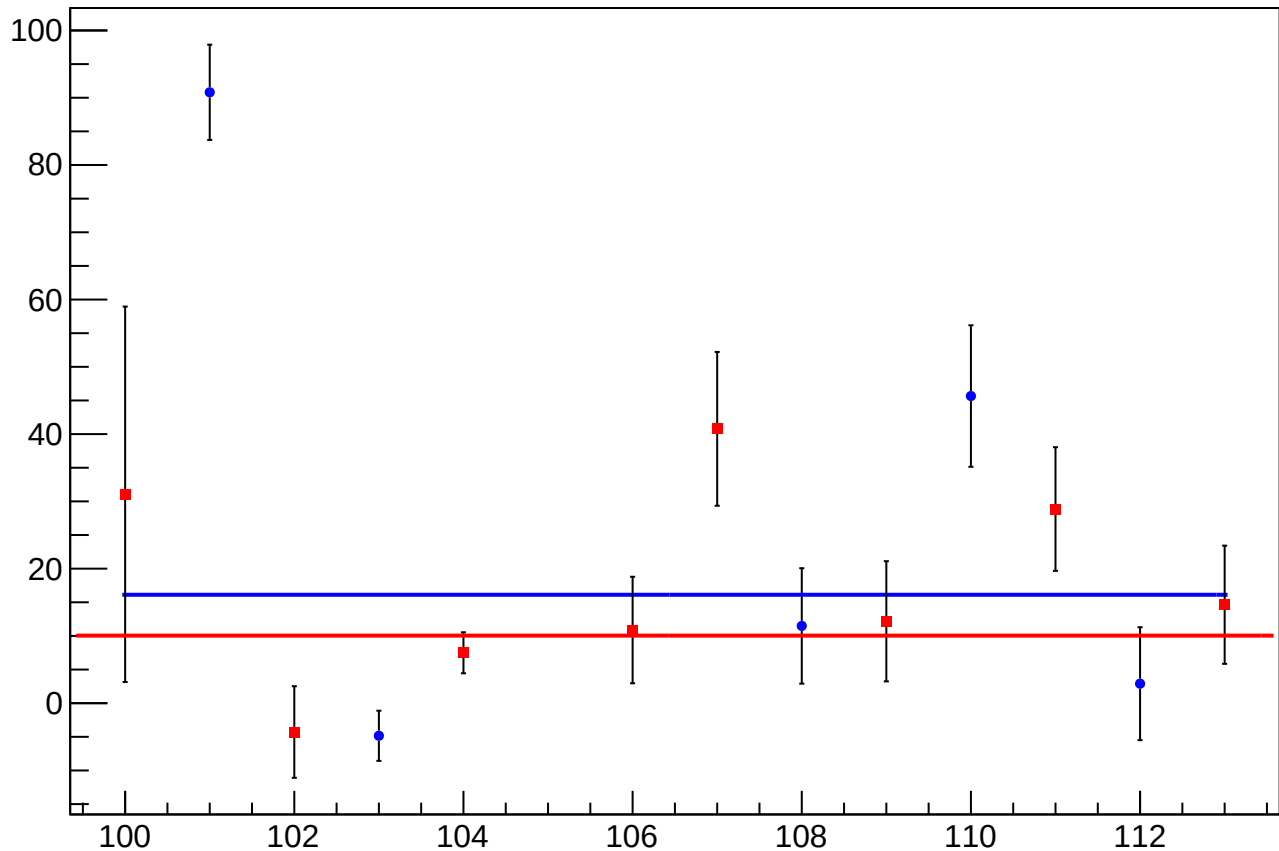
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 143.018+/-1.299  $\chi^2/\text{NDF}$ : 15947.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 16.119 $\pm$ 2.788  $\chi^2$ /NDF: 153.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.047 $\pm$ 2.286  $\chi^2$ /NDF: 17.5/7

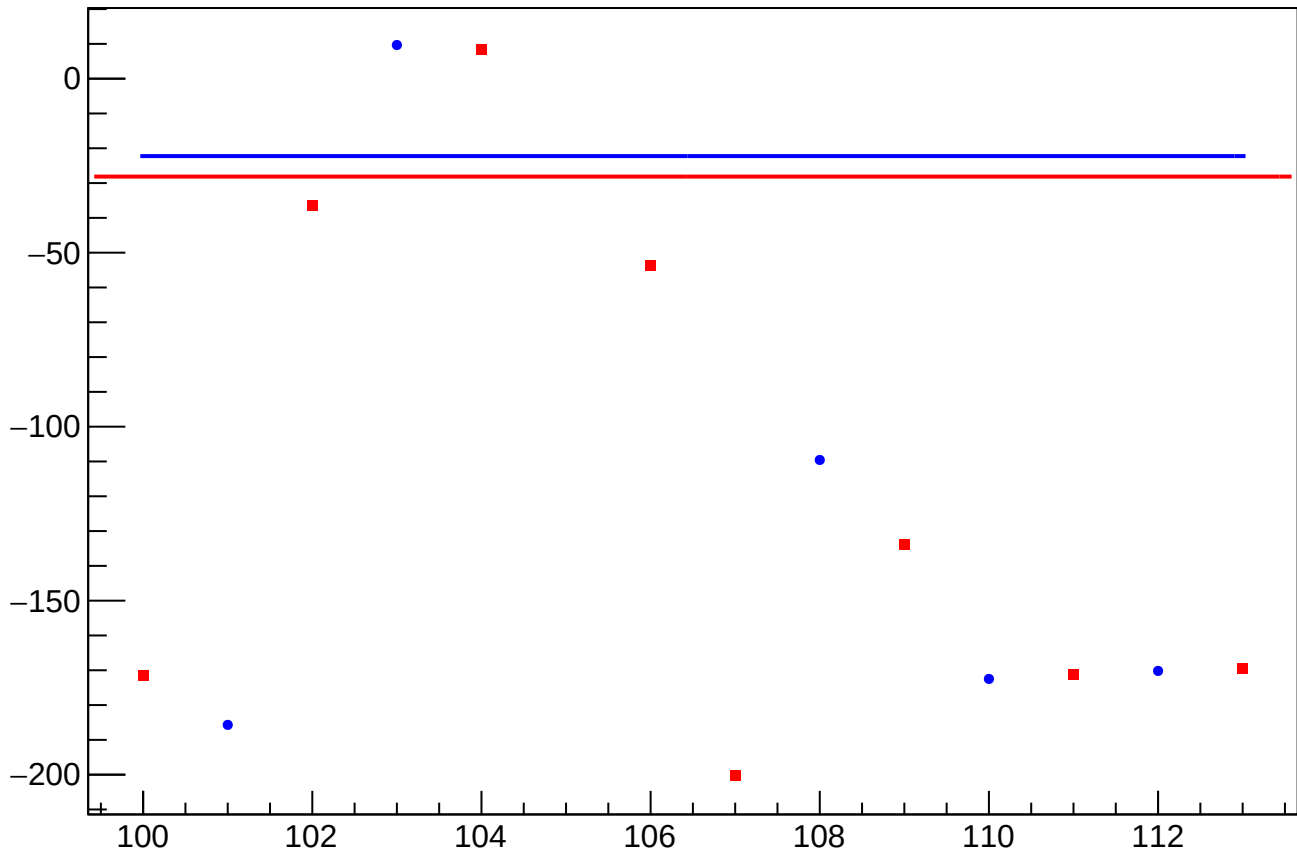
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12.488 $\pm$ 1.768  $\chi^2$ /NDF: 173.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -22.248+/-0.086  $\chi^2/\text{NDF}$ : 581902.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -28.134+/-0.086  $\chi^2/\text{NDF}$ : 400524.5/7

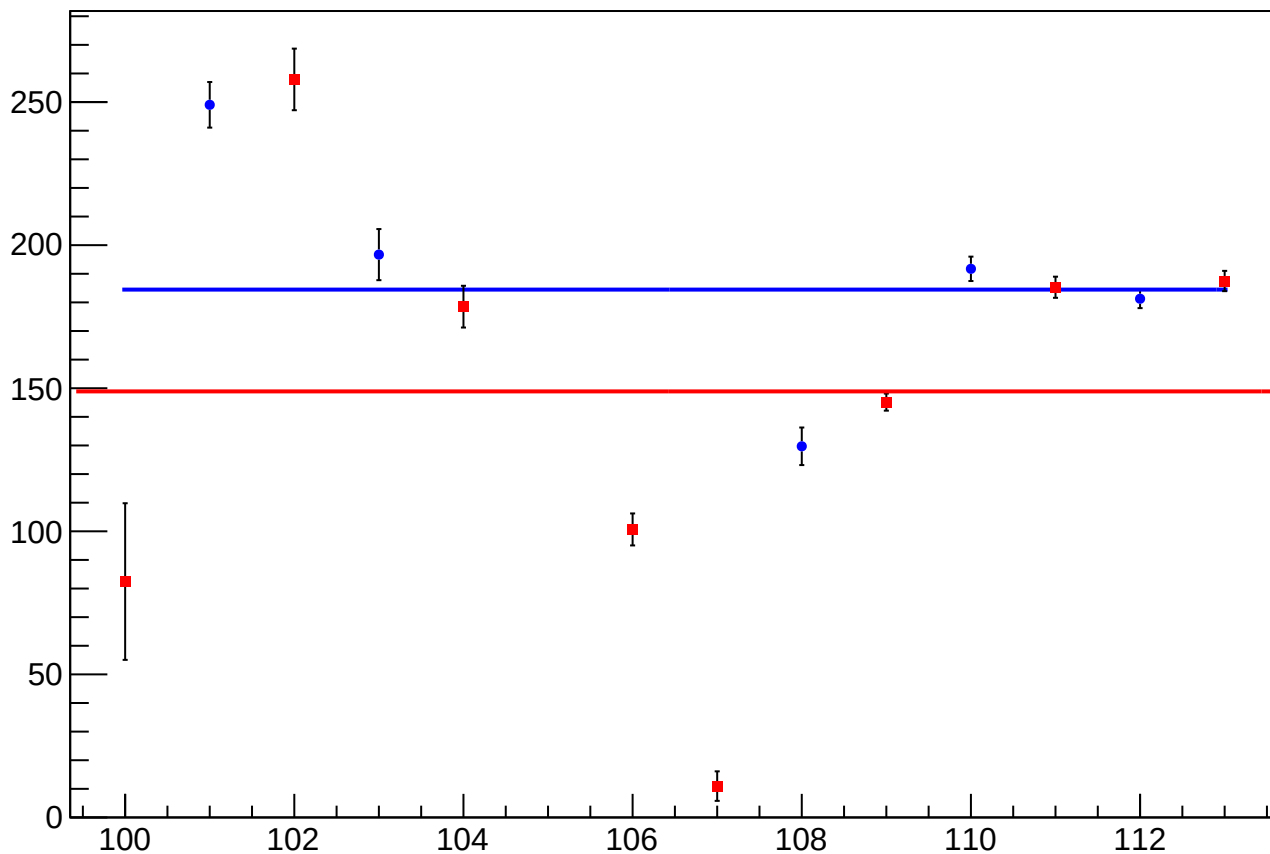
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -25.202+/-0.061  $\chi^2/\text{NDF}$ : 984764.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 184.472 $\pm$ 2.237  $\chi^2$ /NDF: 141.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 148.895 $\pm$ 1.659  $\chi^2$ /NDF: 1131.2/7

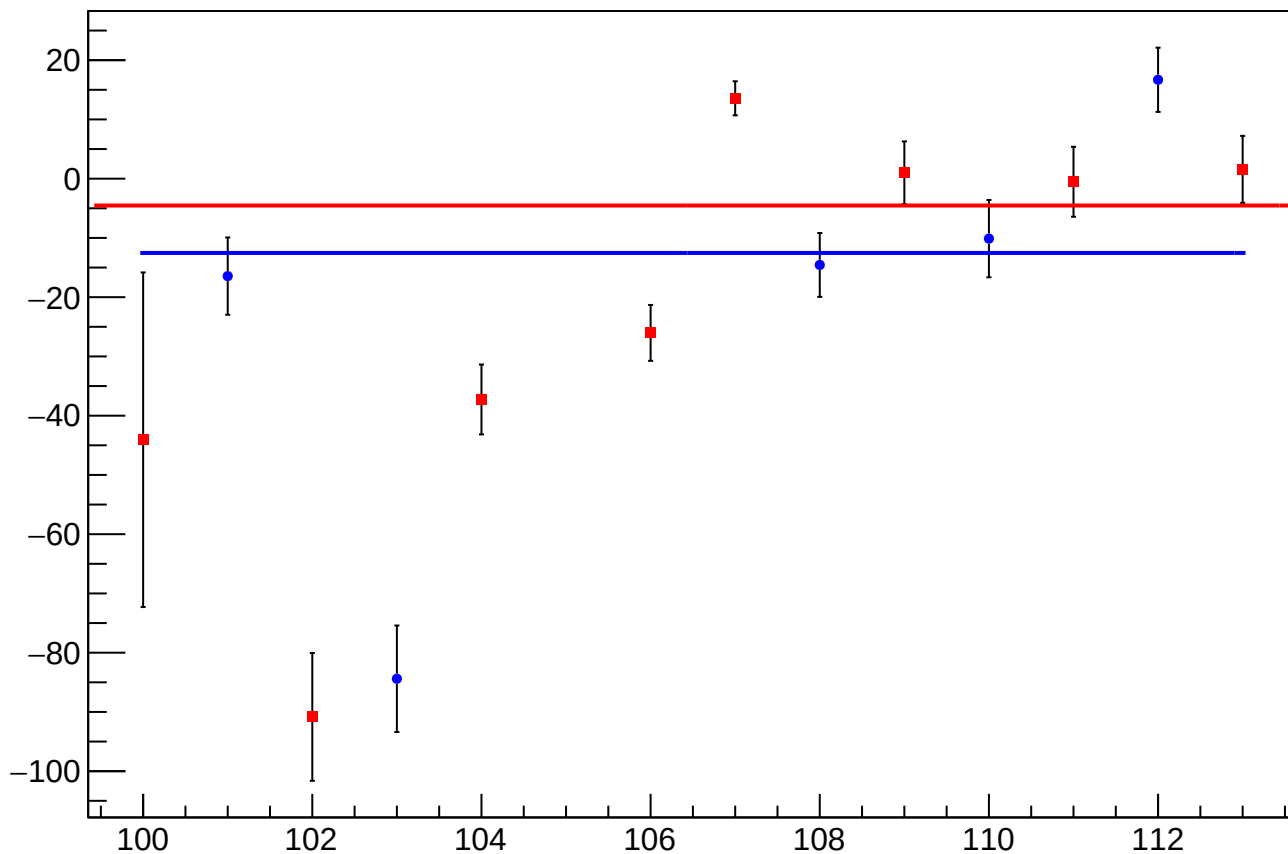
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 161.518 $\pm$ 1.333  $\chi^2$ /NDF: 1435.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-12.534 \pm 2.797$   $\chi^2/\text{NDF}$ : 93.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.529 \pm 1.824$   $\chi^2/\text{NDF}$ : 160.0/7

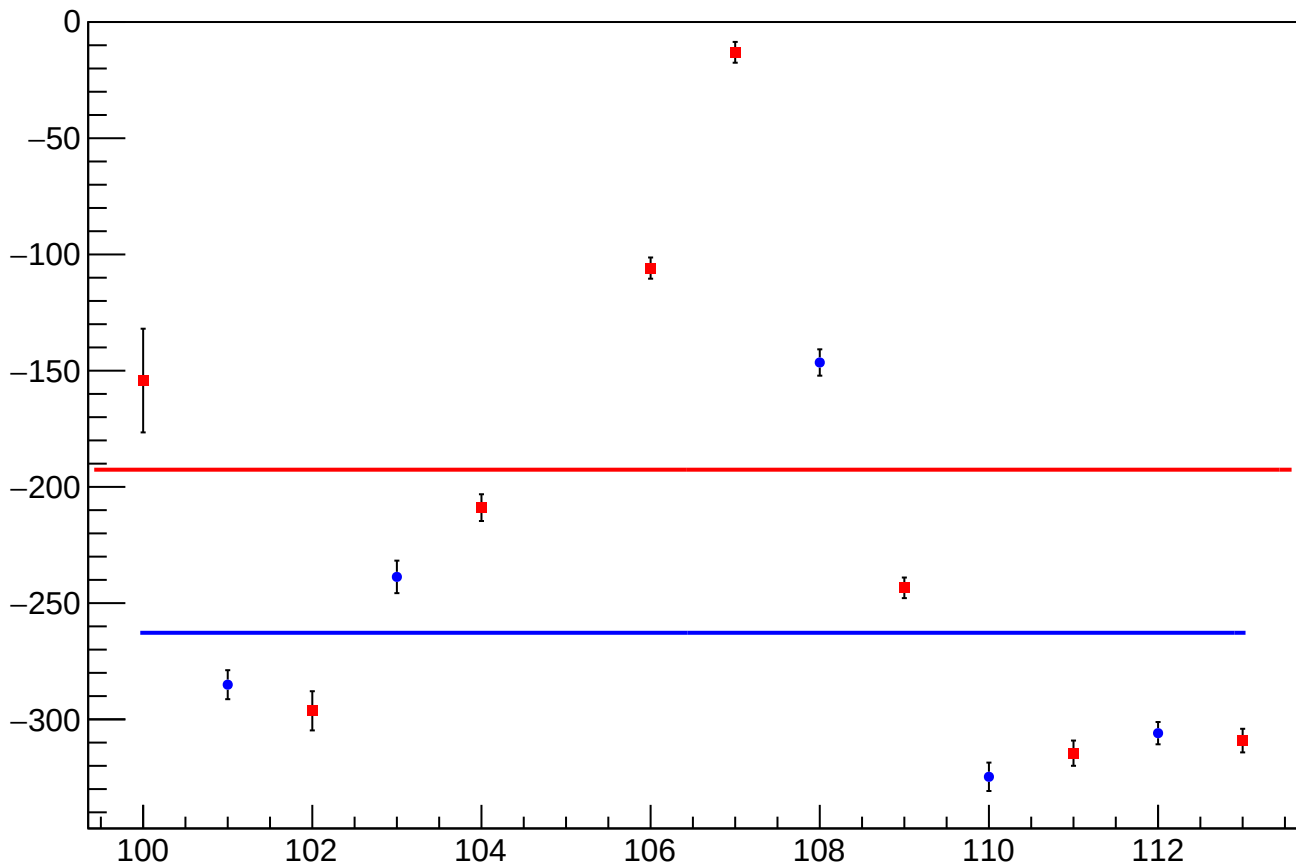
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-6.917 \pm 1.528$   $\chi^2/\text{NDF}$ : 259.5/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -262.759 $\pm$ 2.603  $\chi^2$ /NDF: 629.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -192.597 $\pm$ 1.932  $\chi^2$ /NDF: 3294.8/7

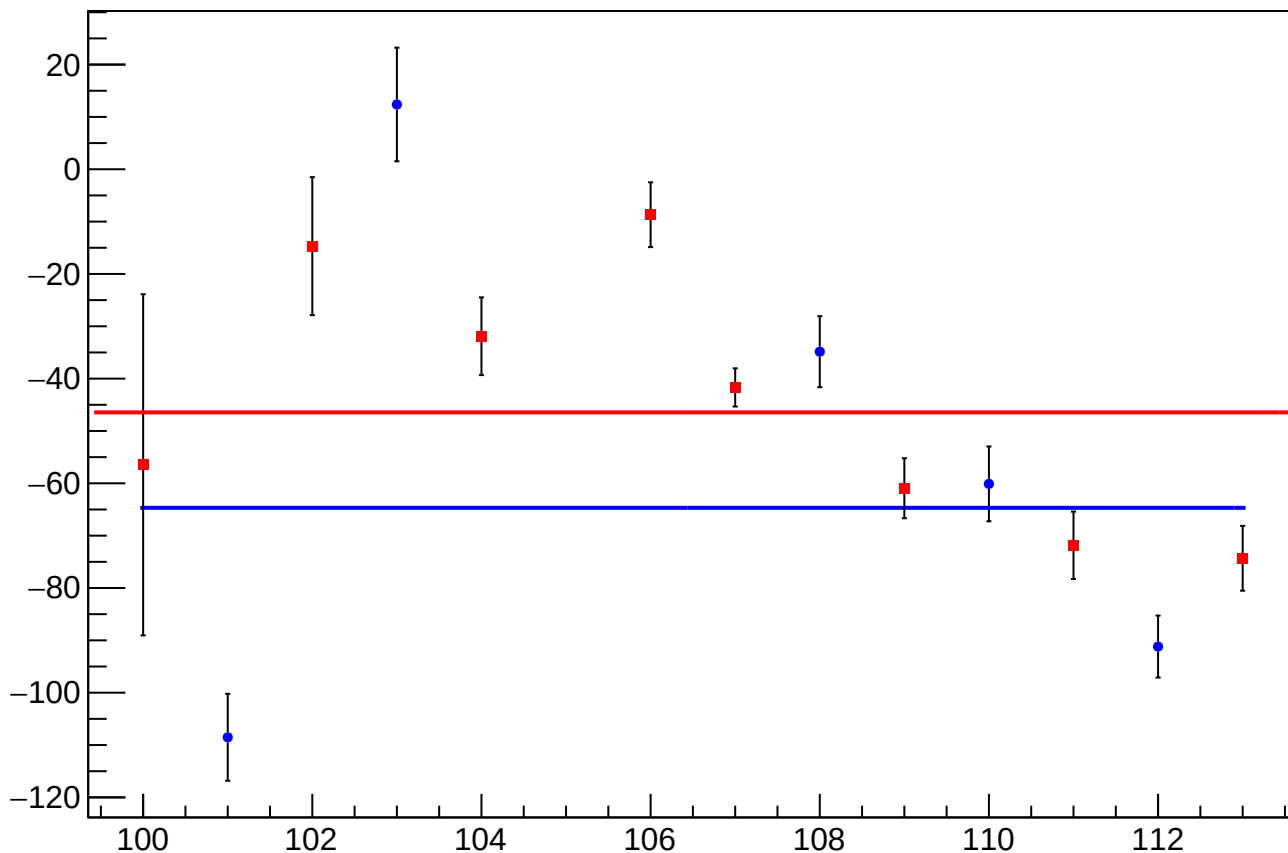
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -217.523 $\pm$ 1.552  $\chi^2$ /NDF: 4392.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -64.681+/-3.283  $\chi^2/\text{NDF}$ : 118.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -46.449+/-2.199  $\chi^2/\text{NDF}$ : 90.9/7

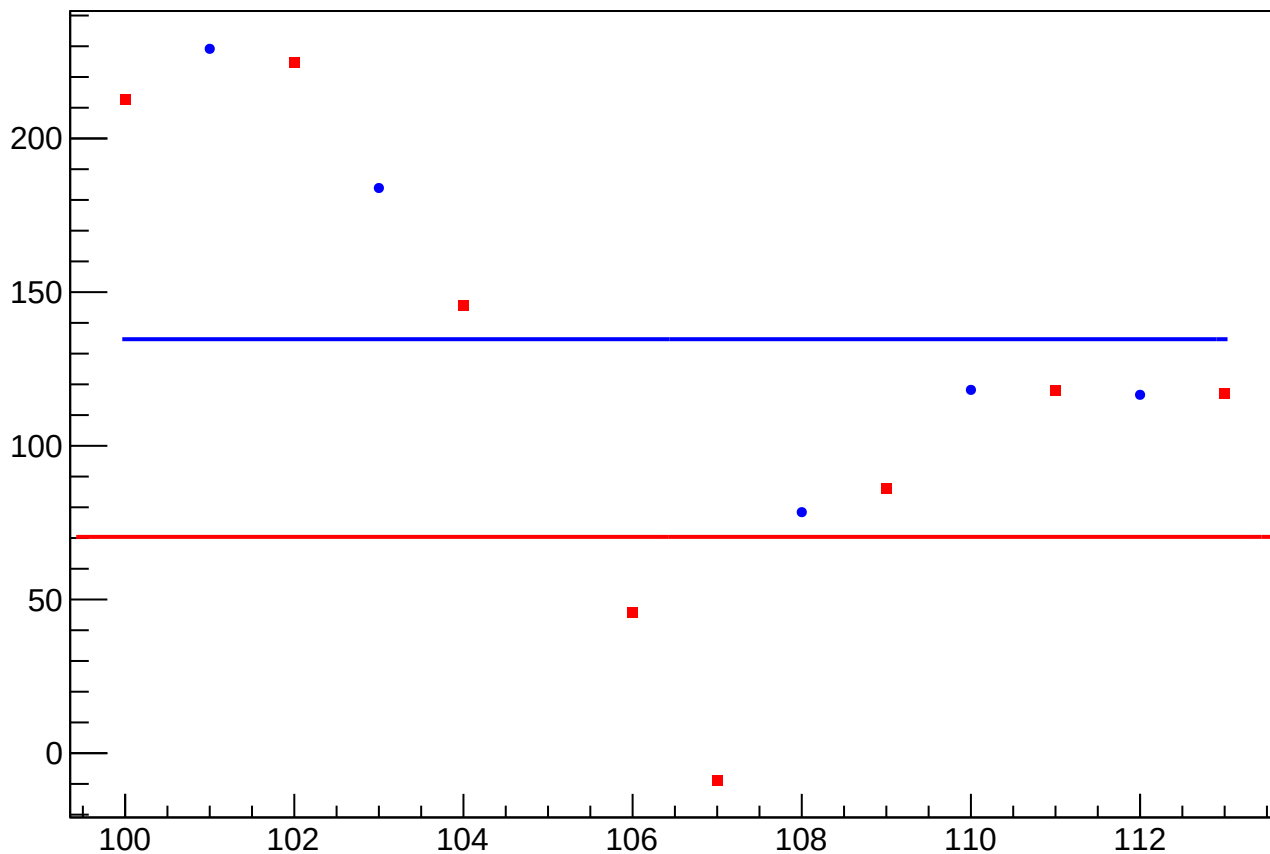
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -52.096+/-1.827  $\chi^2/\text{NDF}$ : 230.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 134.689 $\pm$ 0.144  $\chi^2$ /NDF: 153778.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 70.375 $\pm$ 0.103  $\chi^2$ /NDF: 492691.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

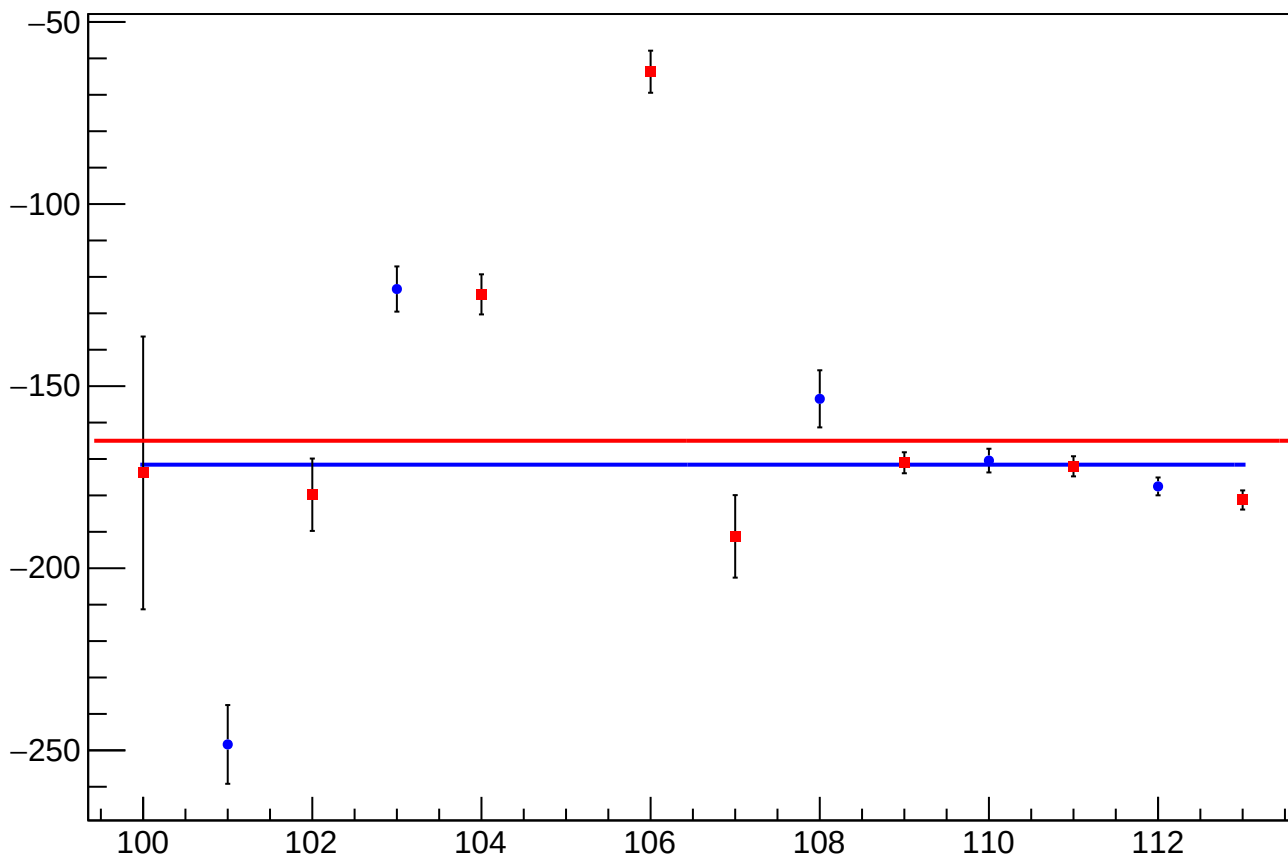
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 92.021 $\pm$ 0.084  $\chi^2$ /NDF: 778181.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -171.562+/-1.790  $\chi^2/\text{NDF}$ : 122.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -164.993+/-1.447  $\chi^2/\text{NDF}$ : 417.4/7

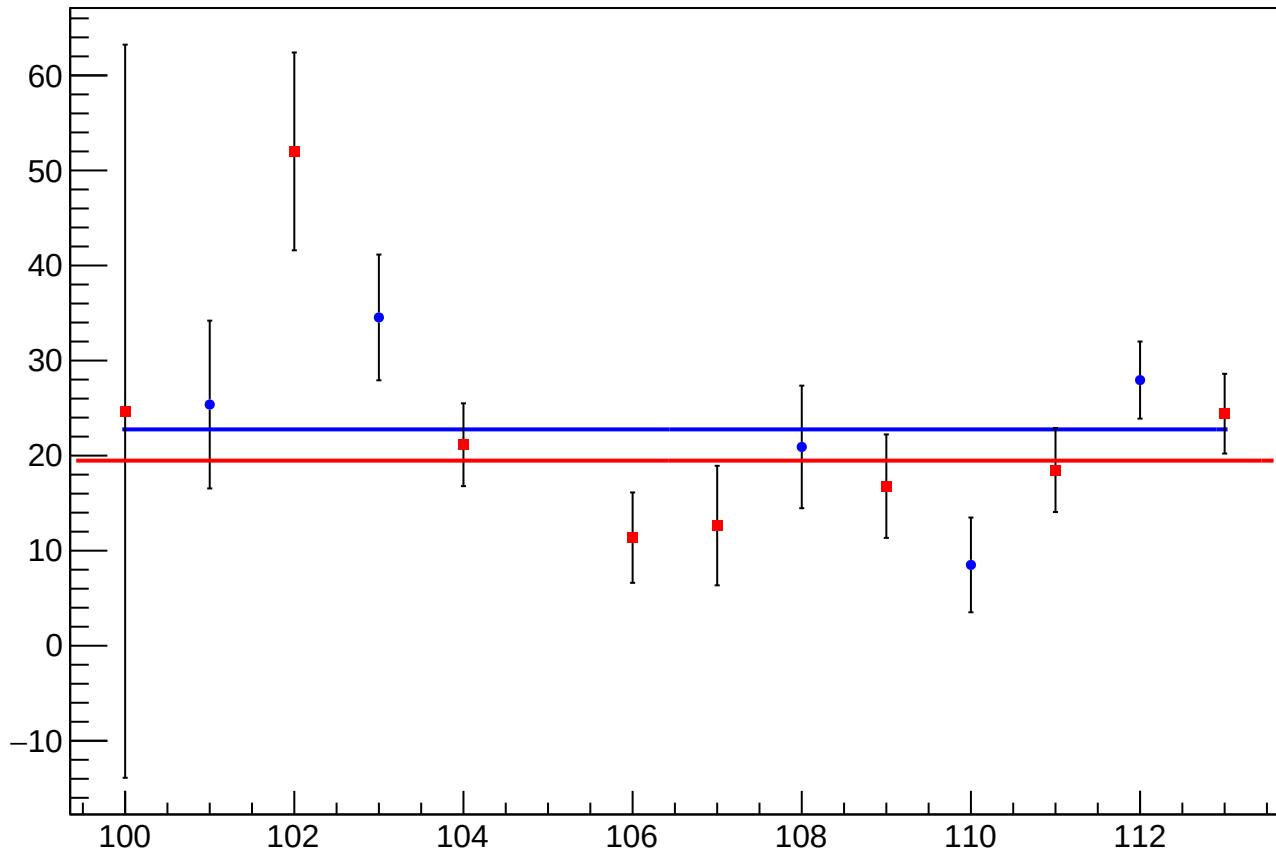
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -167.588+/-1.126  $\chi^2/\text{NDF}$ : 547.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 22.759 $\pm$ 2.493  $\chi^2$ /NDF: 13.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.473 $\pm$ 1.910  $\chi^2$ /NDF: 15.7/7

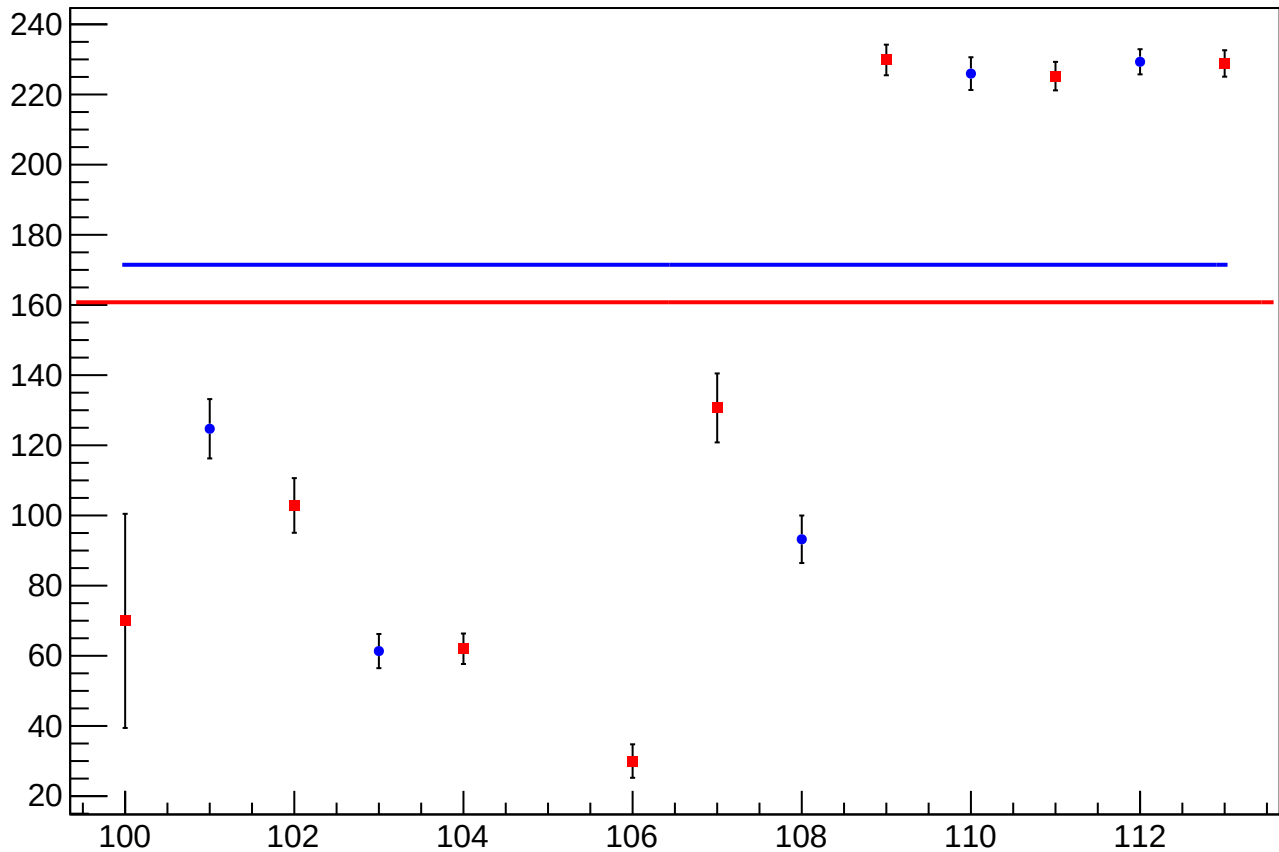
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 20.689 $\pm$ 1.516  $\chi^2$ /NDF: 30.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 171.462 $\pm$ 2.227  $\chi^2$ /NDF: 1071.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 160.773 $\pm$ 1.800  $\chi^2$ /NDF: 2170.7/7

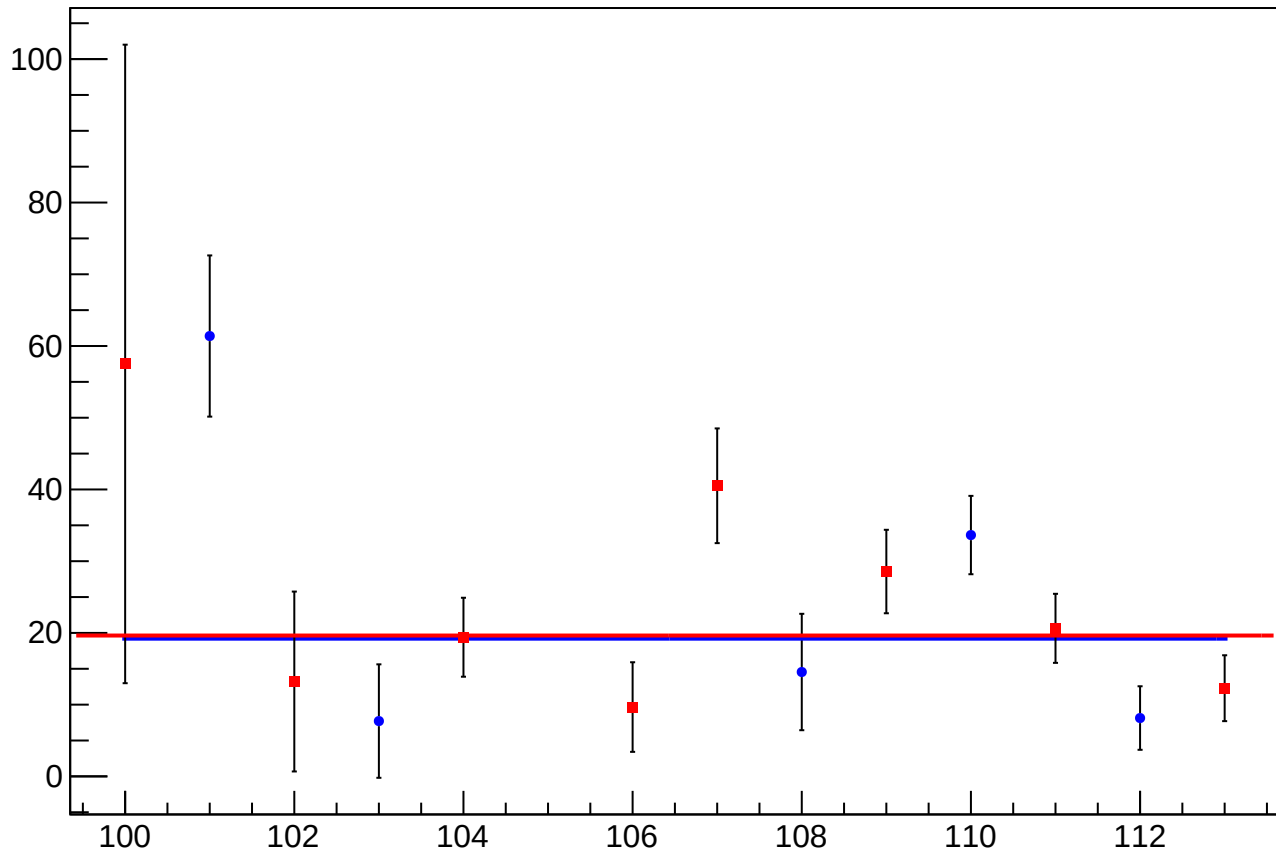
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 164.997 $\pm$ 1.400  $\chi^2$ /NDF: 3256.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 19.200+/-2.844  $\chi^2/\text{NDF}$ : 29.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.636+/-2.229  $\chi^2/\text{NDF}$ : 15.3/7

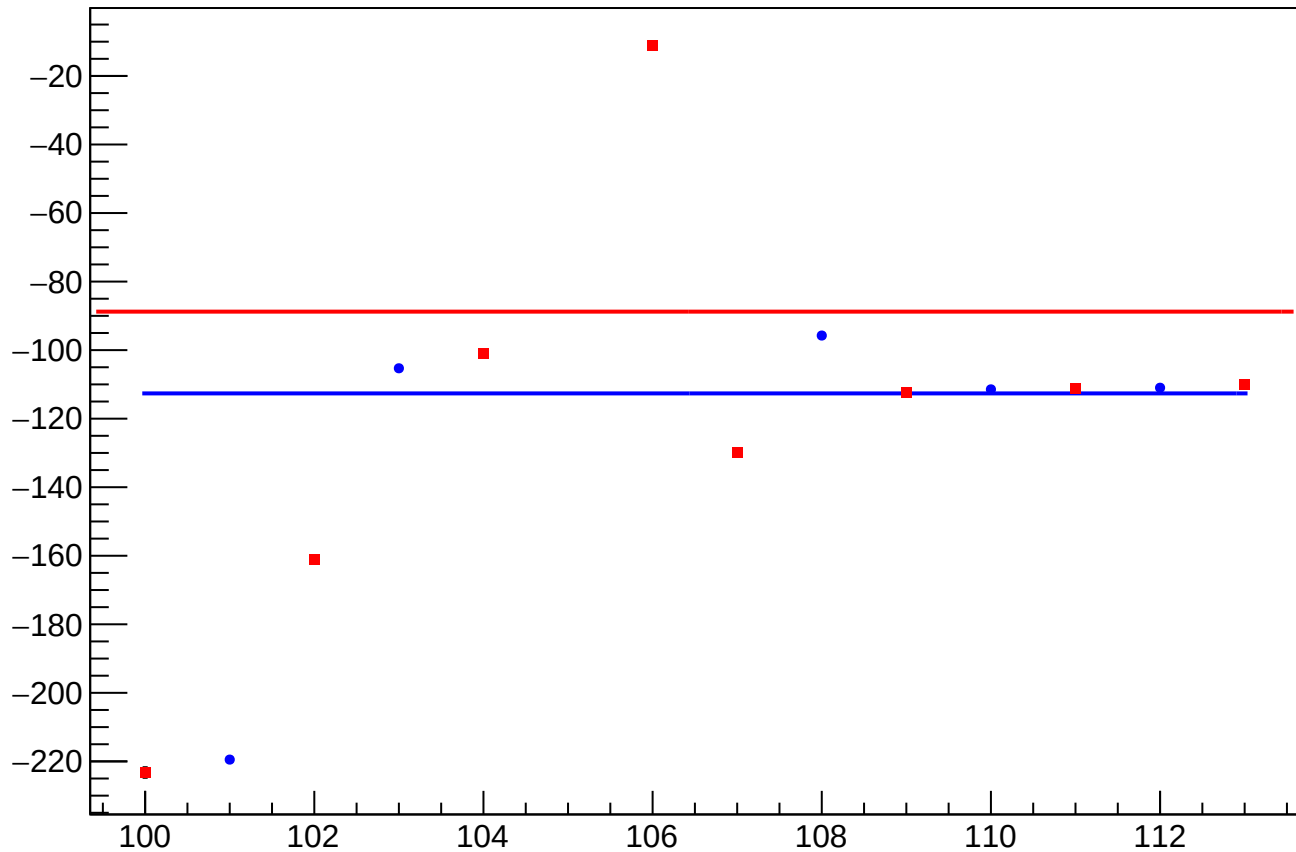
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.470+/-1.754  $\chi^2/\text{NDF}$ : 45.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -112.629+/-0.129  $\chi^2/\text{NDF}$ : 50242.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -88.769+/-0.103  $\chi^2/\text{NDF}$ : 235440.0/7

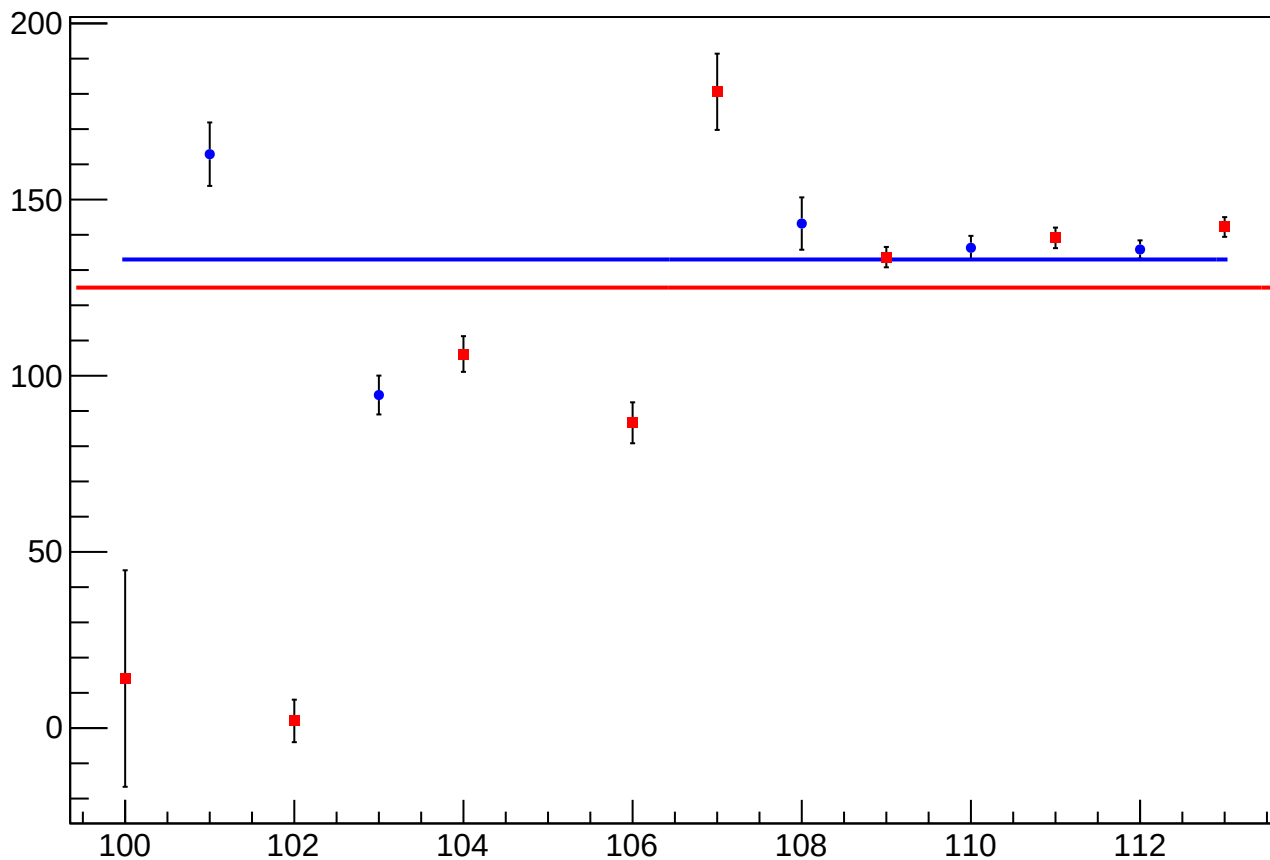
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -98.013+/-0.080  $\chi^2/\text{NDF}$ : 306672.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 133.000 $\pm$ 1.825  $\chi^2$ /NDF: 63.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.020 $\pm$ 1.457  $\chi^2$ /NDF: 582.8/7

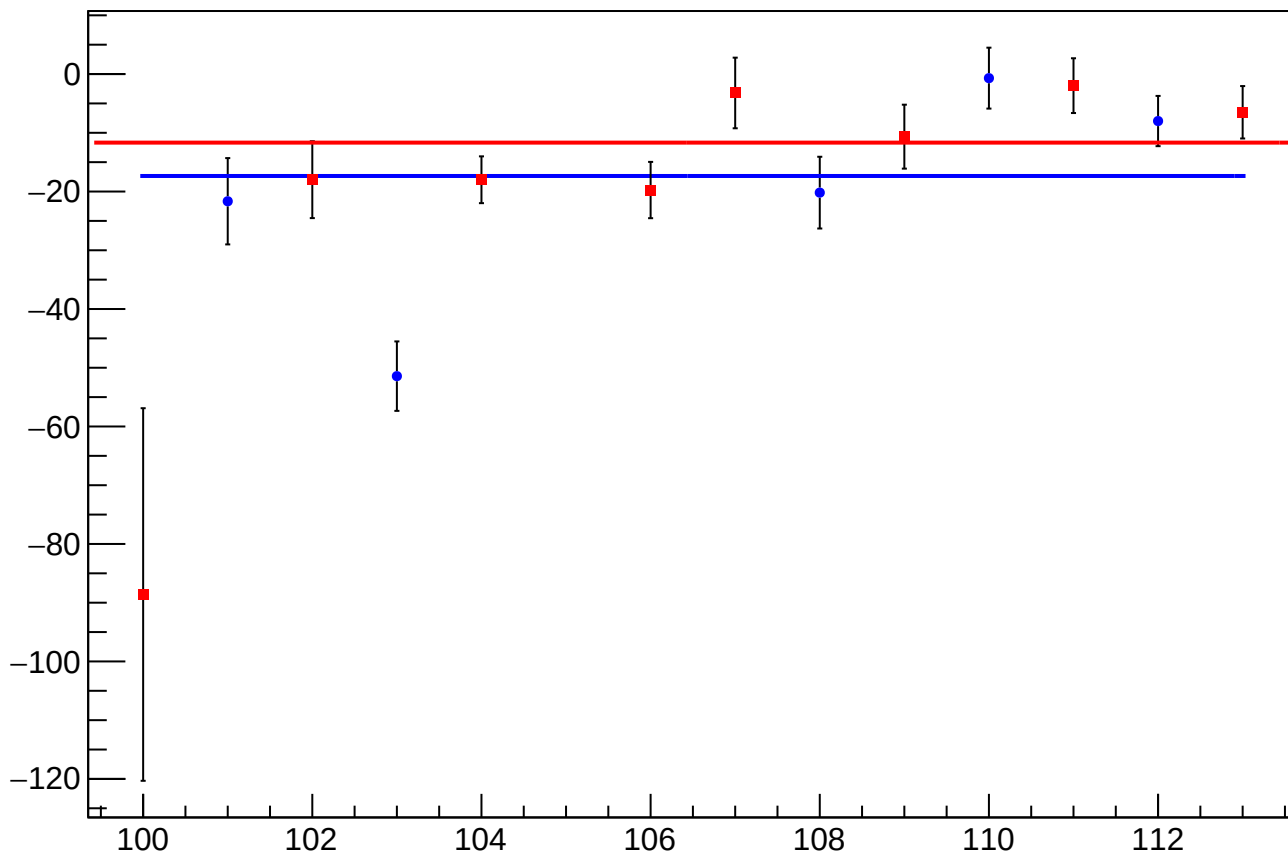
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 128.126 $\pm$ 1.139  $\chi^2$ /NDF: 658.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -17.352 $\pm$ 2.456  $\chi^2$ /NDF: 48.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -11.672 $\pm$ 1.862  $\chi^2$ /NDF: 19.8/7

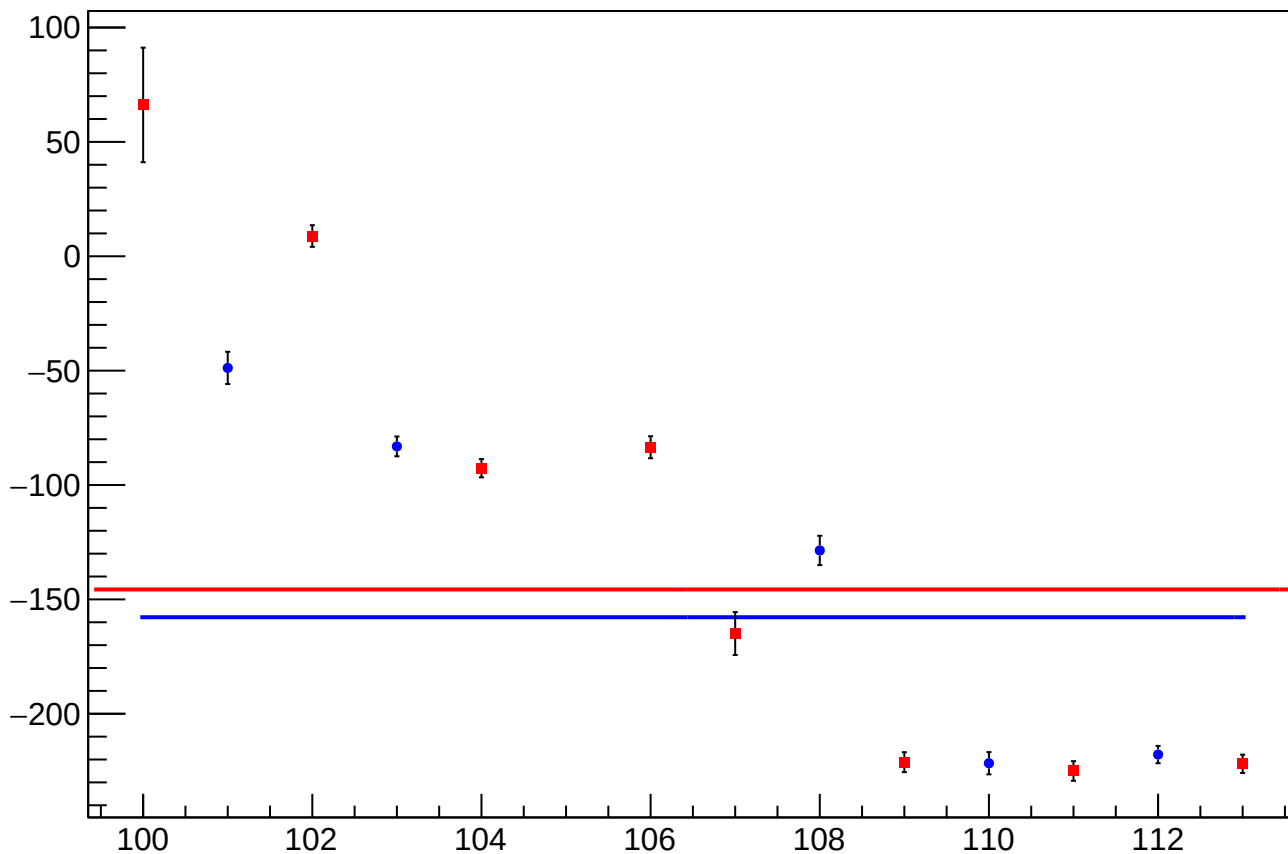
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -13.744 $\pm$ 1.484  $\chi^2$ /NDF: 72.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-157.795 \pm 2.182$   $\chi^2/\text{NDF}$ : 982.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-145.659 \pm 1.733$   $\chi^2/\text{NDF}$ : 2491.0/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

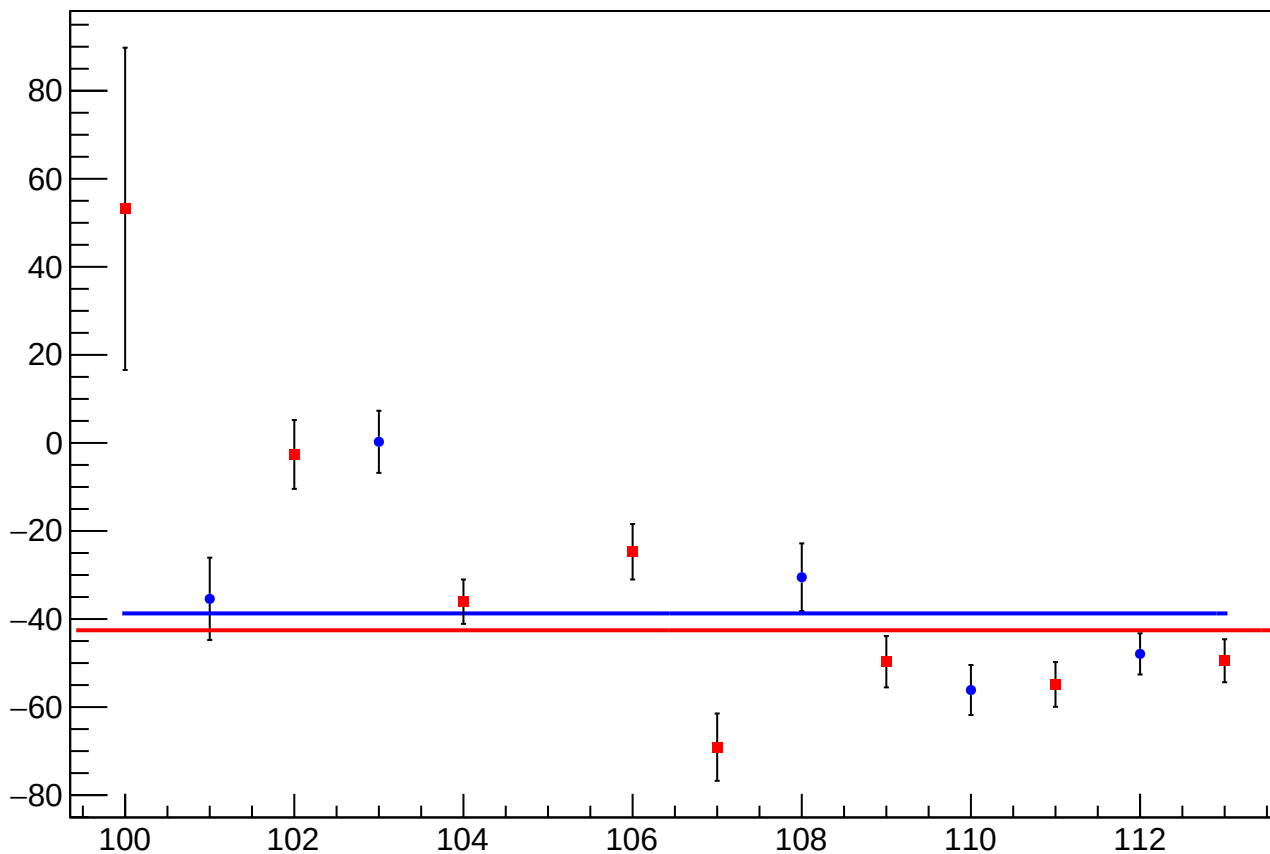
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-150.354 \pm 1.357$   $\chi^2/\text{NDF}$ : 3492.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-38.724 \pm 2.827$   $\chi^2/\text{NDF}: 45.0/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-42.554 \pm 2.188$   $\chi^2/\text{NDF}: 64.0/7$

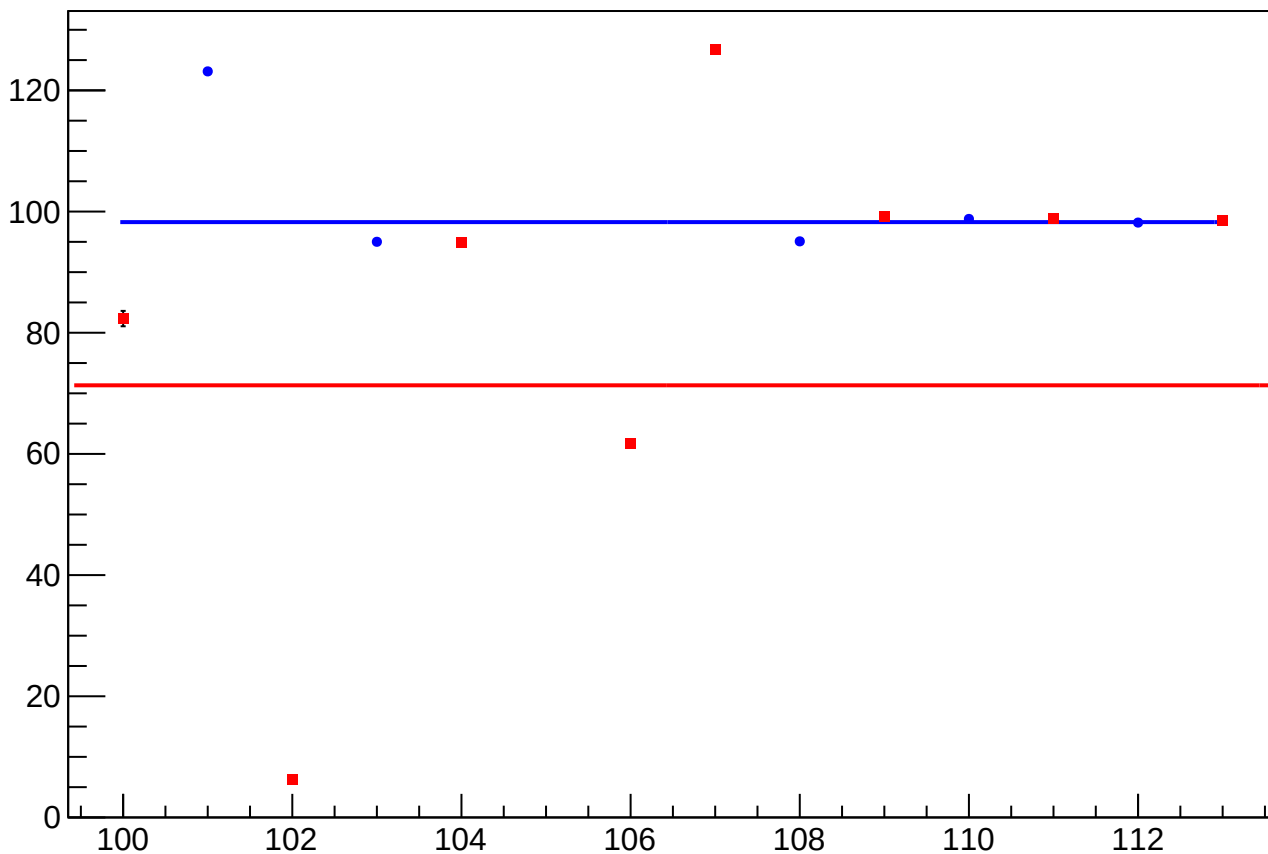
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-41.119 \pm 1.730$   $\chi^2/\text{NDF}: 110.2/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 98.259 $\pm$ 0.121  $\chi^2$ /NDF: 4013.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 71.323 $\pm$ 0.094  $\chi^2$ /NDF: 164464.6/7

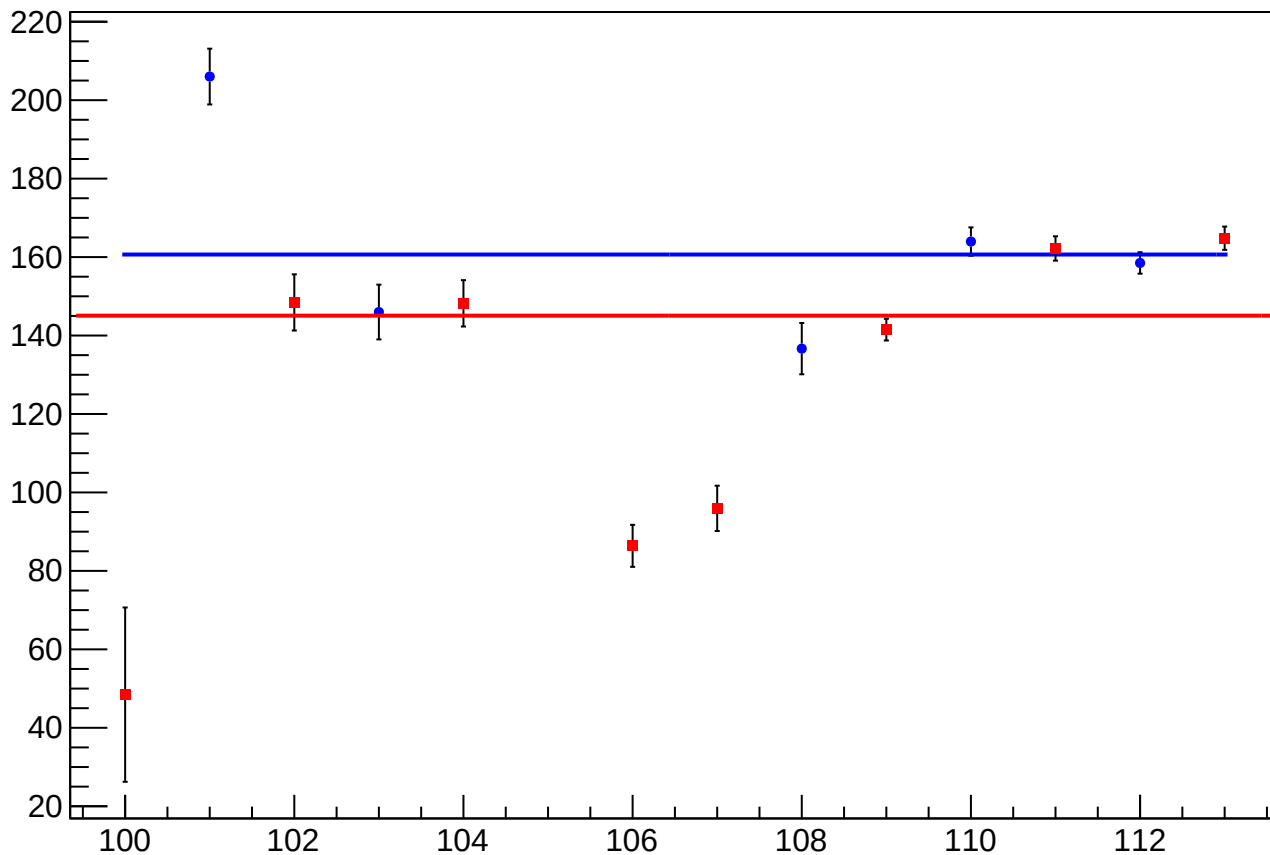
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 81.442 $\pm$ 0.074  $\chi^2$ /NDF: 199364.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 160.651 $\pm$ 1.910  $\chi^2$ /NDF: 60.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 145.068 $\pm$ 1.470  $\chi^2$ /NDF: 288.5/7

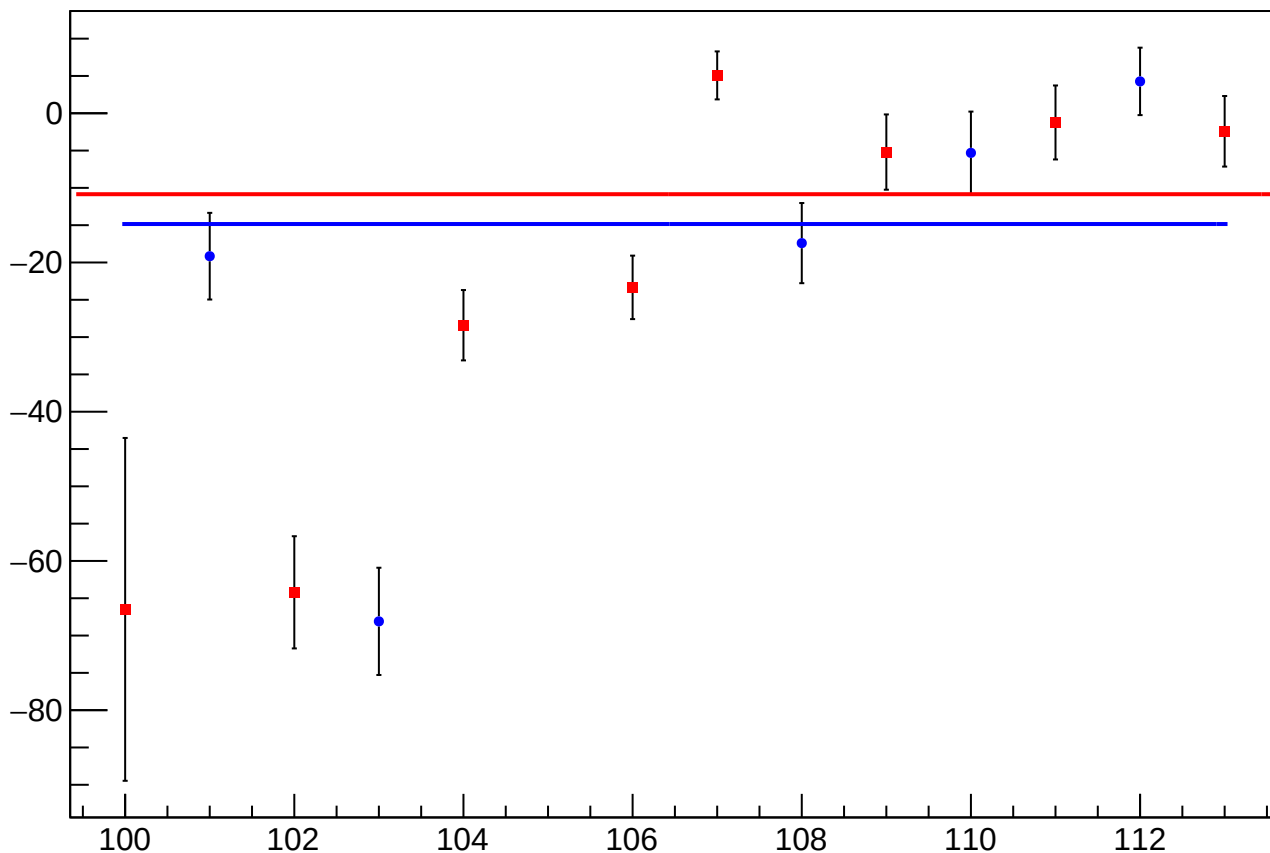
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 150.866 $\pm$ 1.165  $\chi^2$ /NDF: 390.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -14.845 $\pm$ 2.460  $\chi^2$ /NDF: 76.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -10.848 $\pm$ 1.712  $\chi^2$ /NDF: 111.4/7

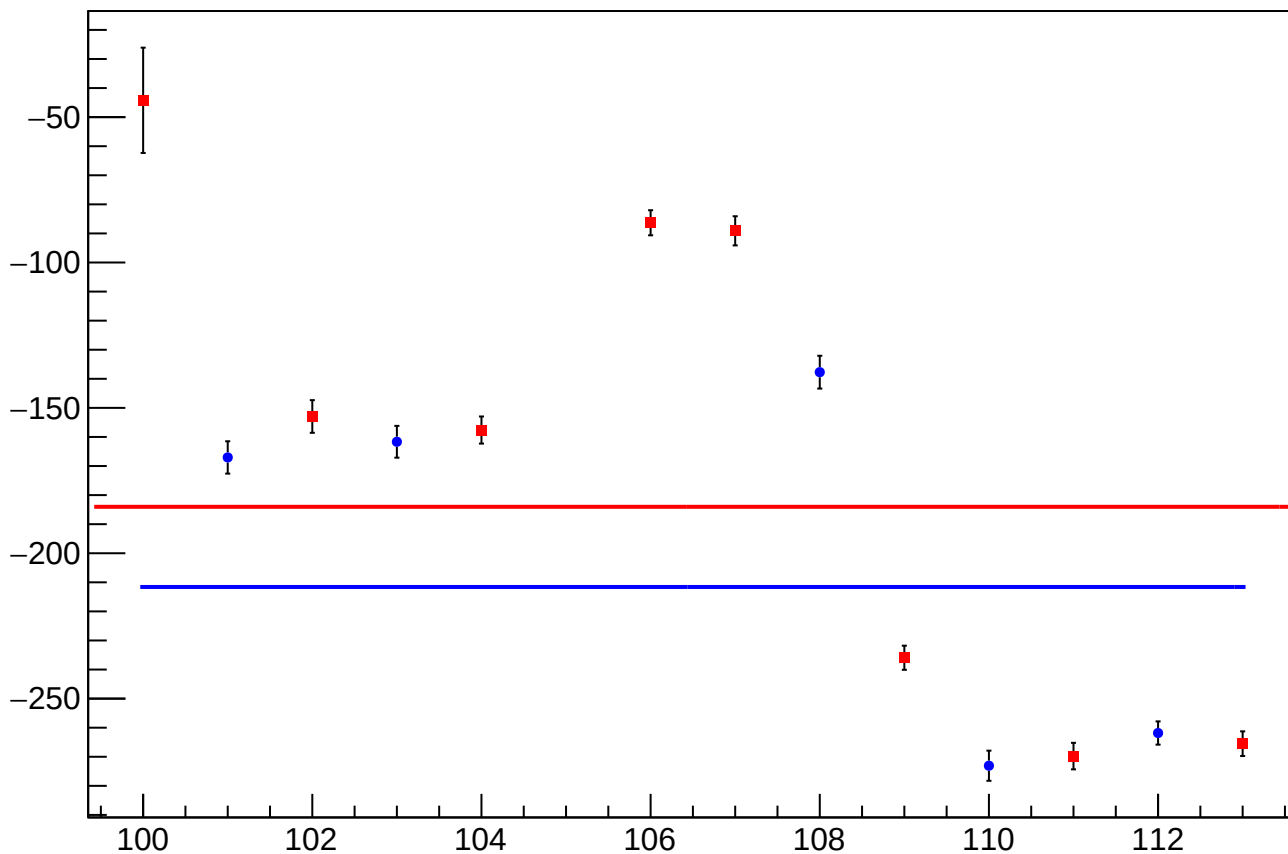
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -12.152 $\pm$ 1.405  $\chi^2$ /NDF: 189.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-211.597 \pm 2.254$   $\chi^2/\text{NDF}$ : 617.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-184.024 \pm 1.725$   $\chi^2/\text{NDF}$ : 1871.8/7

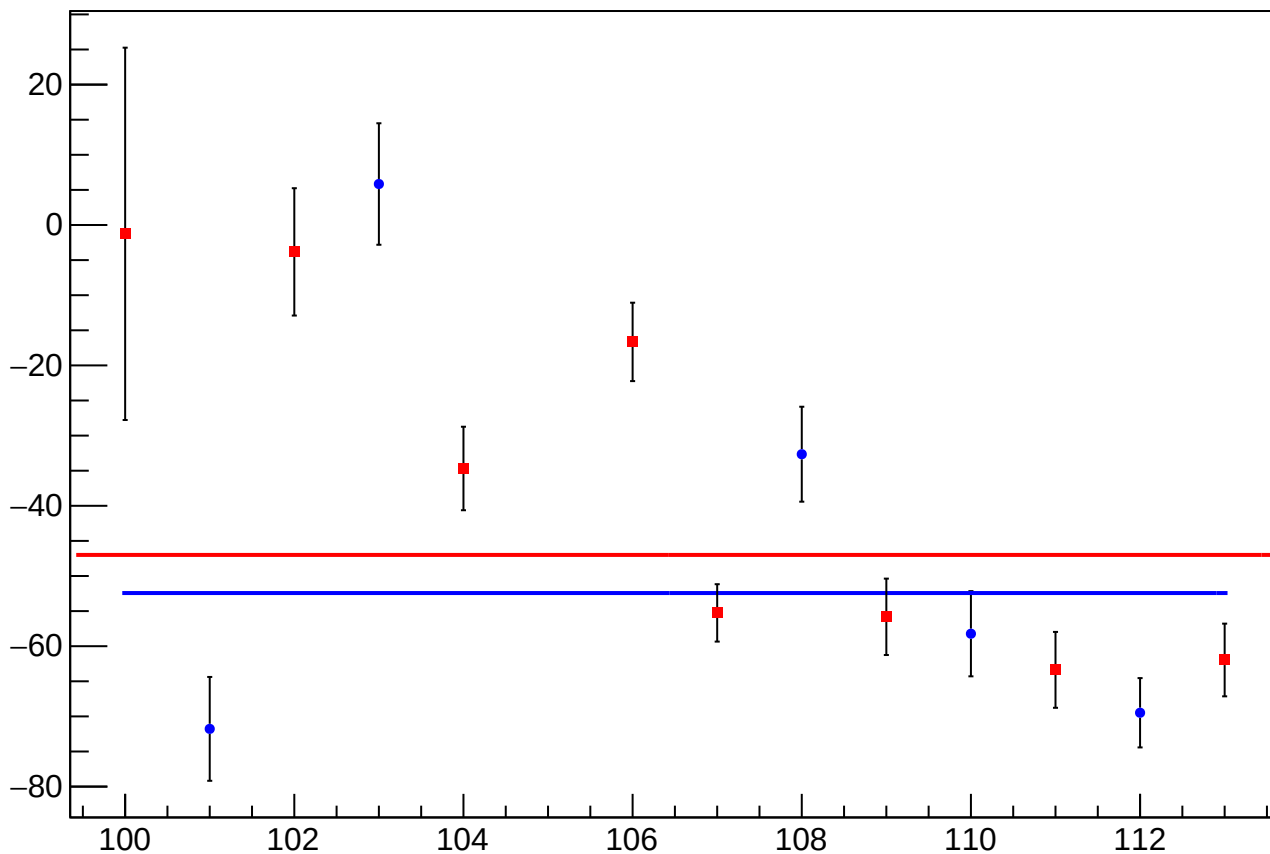
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-194.212 \pm 1.370$   $\chi^2/\text{NDF}$ : 2583.5/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -52.428 $\pm$ 2.867  $\chi^2$ /NDF: 73.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -46.997 $\pm$ 2.045  $\chi^2$ /NDF: 83.7/7

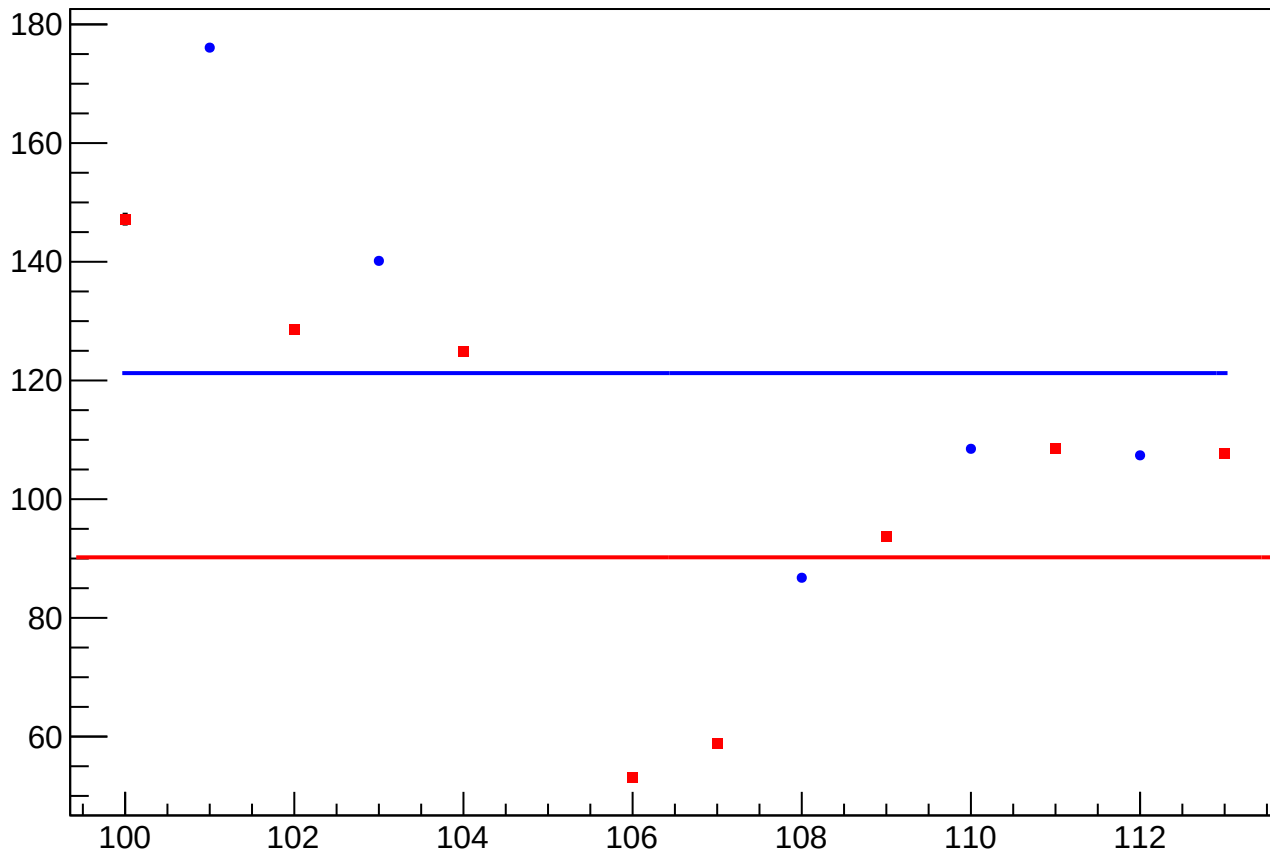
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -48.829 $\pm$ 1.665  $\chi^2$ /NDF: 159.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 121.242 $\pm$ 0.127  $\chi^2$ /NDF: 59071.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 90.203 $\pm$ 0.092  $\chi^2$ /NDF: 118241.8/7

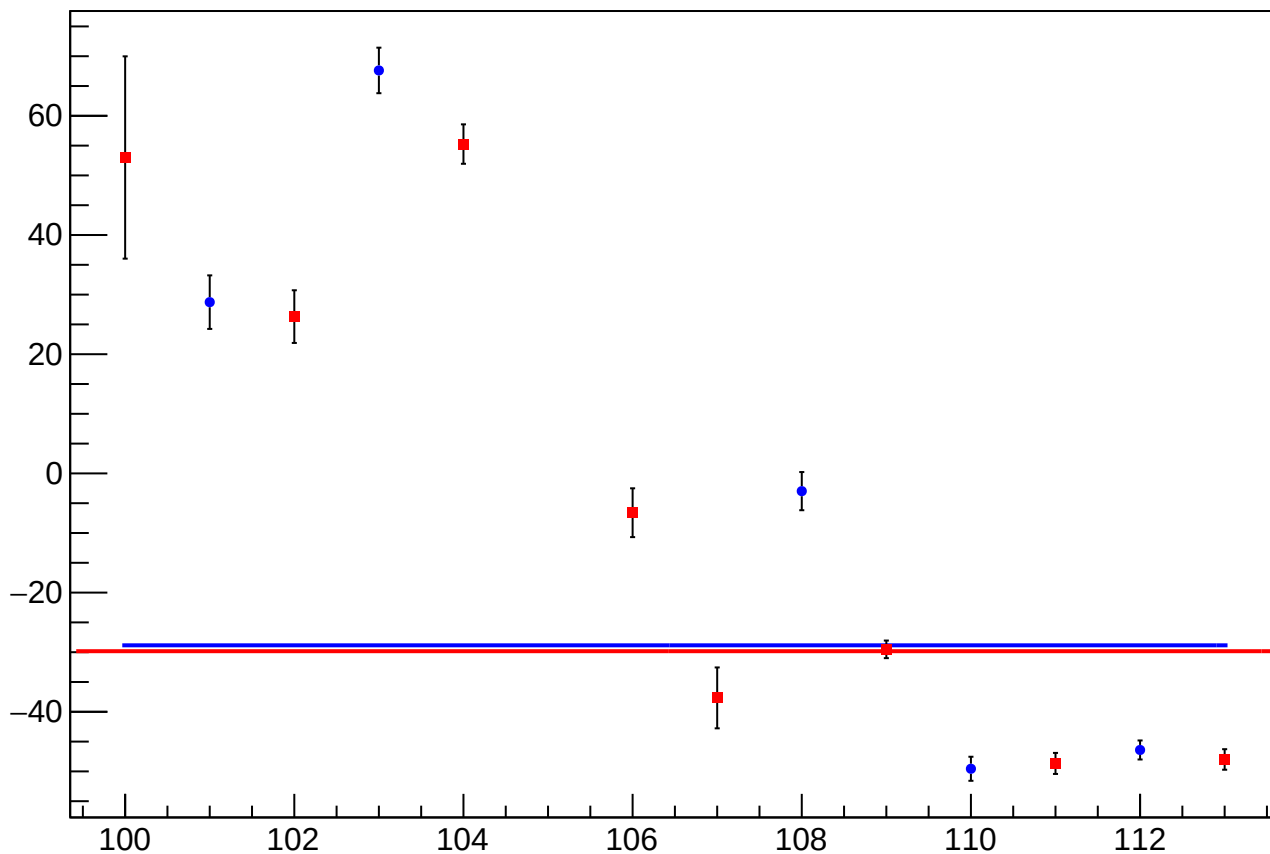
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 100.943 $\pm$ 0.075  $\chi^2$ /NDF: 216342.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -28.845+/-1.082  $\chi^2/\text{NDF}$ : 1093.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -29.832+/-0.857  $\chi^2/\text{NDF}$ : 1106.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

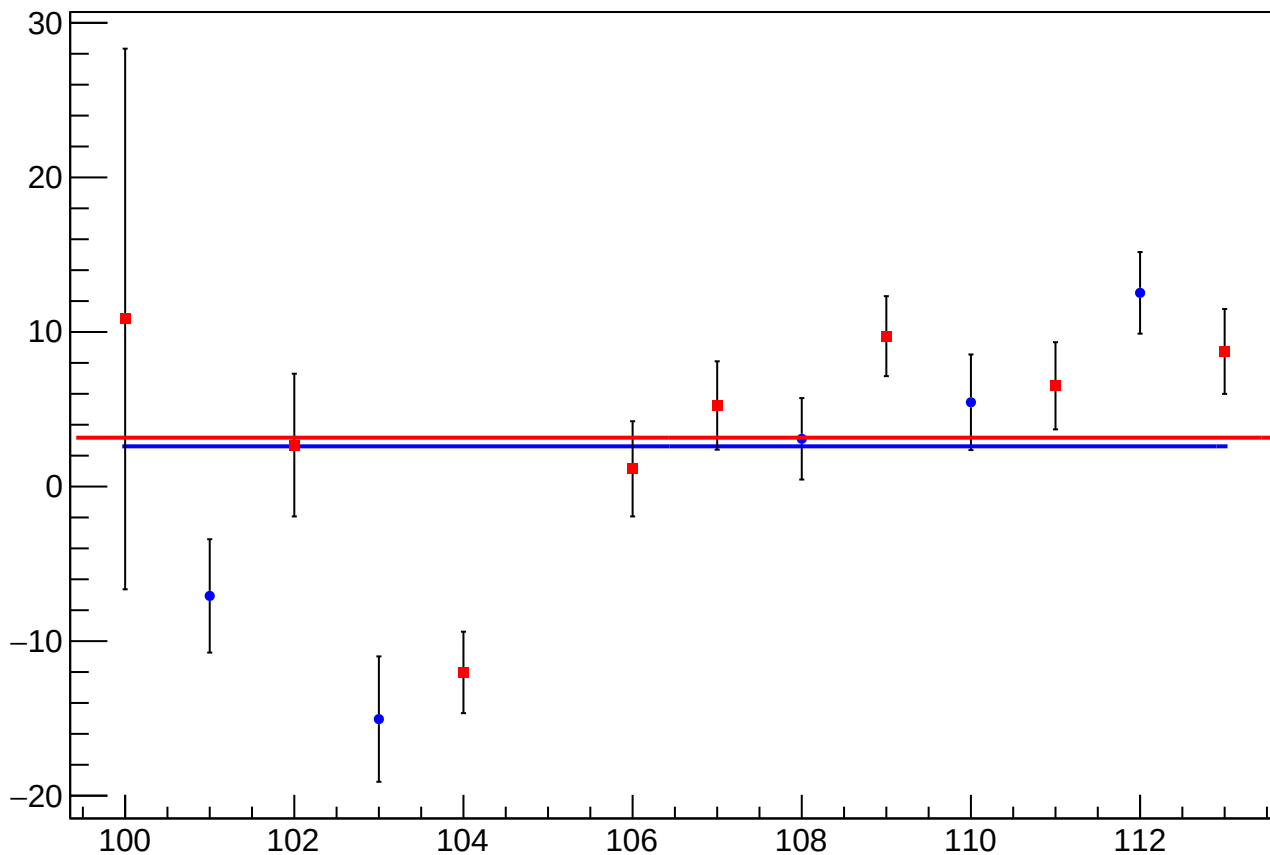
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -29.451+/-0.672  $\chi^2/\text{NDF}$ : 2200.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 2.602 $\pm$ 1.377  $\chi^2$ /NDF: 40.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.163 $\pm$ 1.098  $\chi^2$ /NDF: 46.4/7

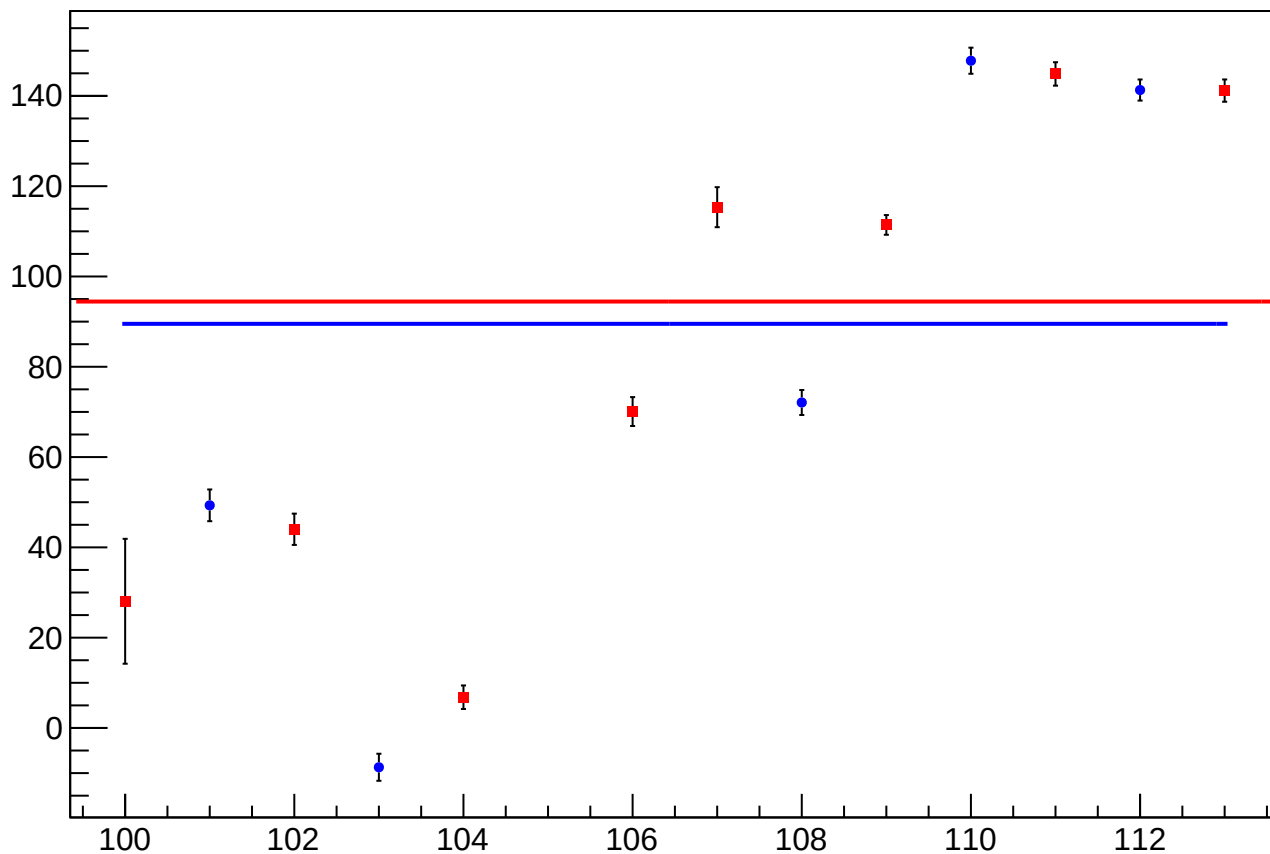
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.945 $\pm$ 0.858  $\chi^2$ /NDF: 87.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 89.511+/-1.264  $\chi^2/\text{NDF}$ : 2142.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.449+/-1.050  $\chi^2/\text{NDF}$ : 2239.5/7

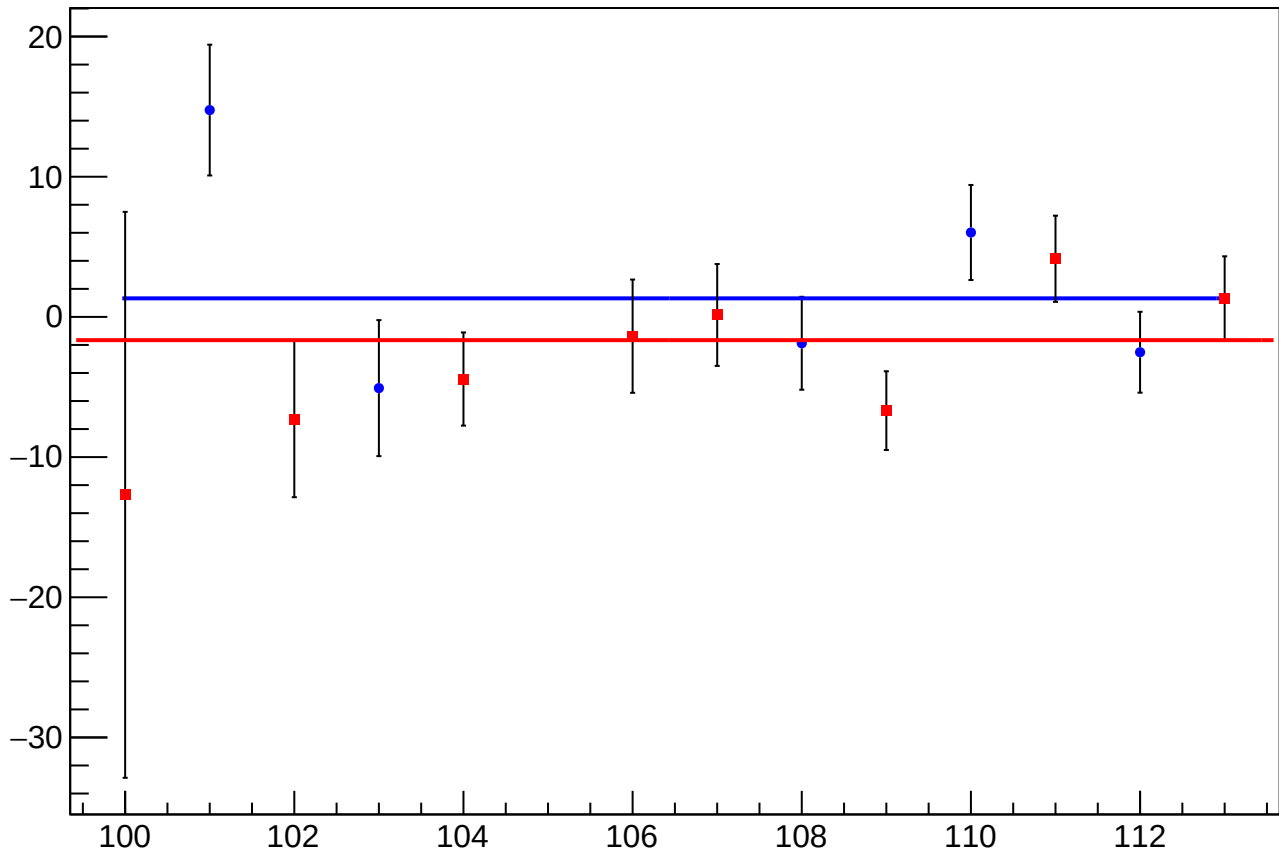
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 92.433+/-0.808  $\chi^2/\text{NDF}$ : 4391.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 1.324 $\pm$ 1.608  $\chi^2$ /NDF: 14.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.658 $\pm$ 1.285  $\chi^2$ /NDF: 10.0/7

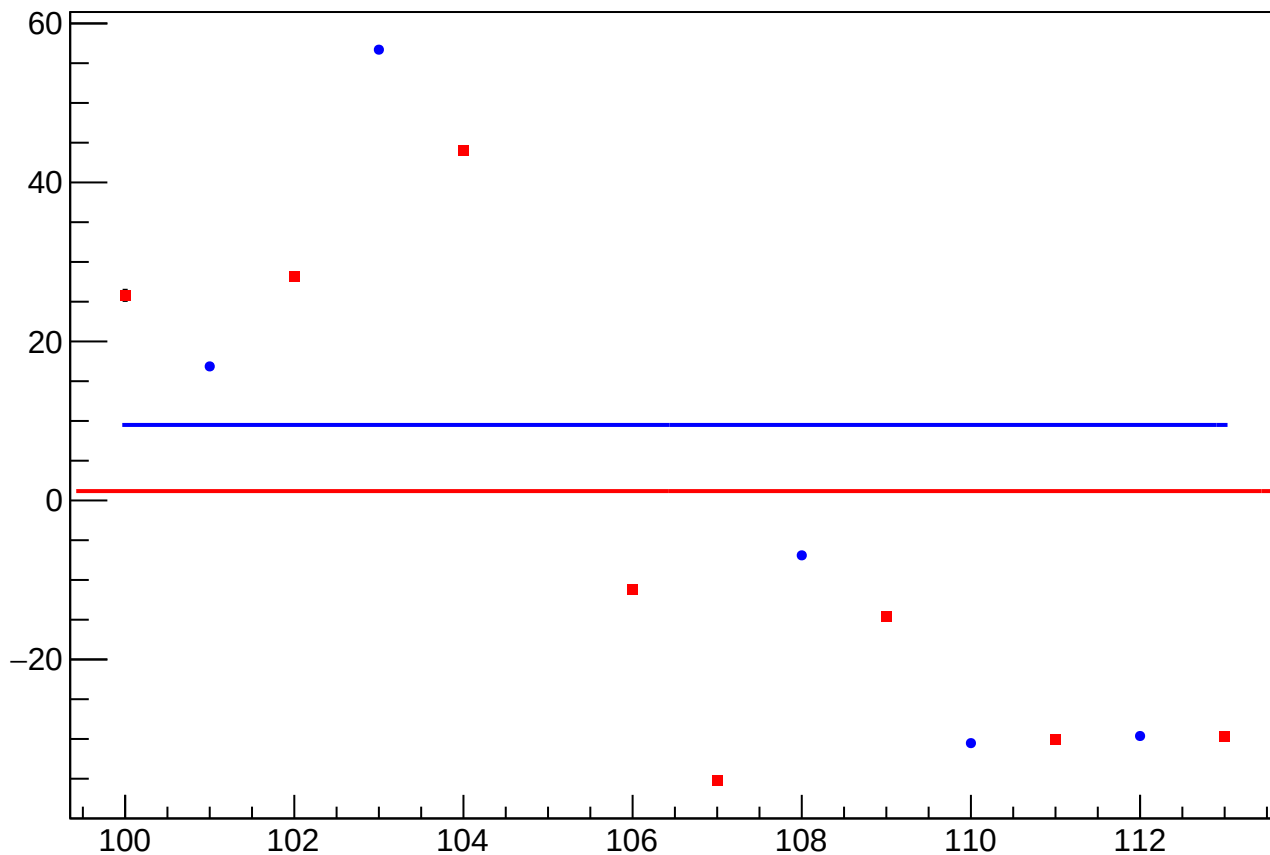
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.496 $\pm$ 1.004  $\chi^2$ /NDF: 26.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 9.500+/-0.069  $\chi^2/\text{NDF}$ : 236643.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.178+/-0.060  $\chi^2/\text{NDF}$ : 256998.9/7

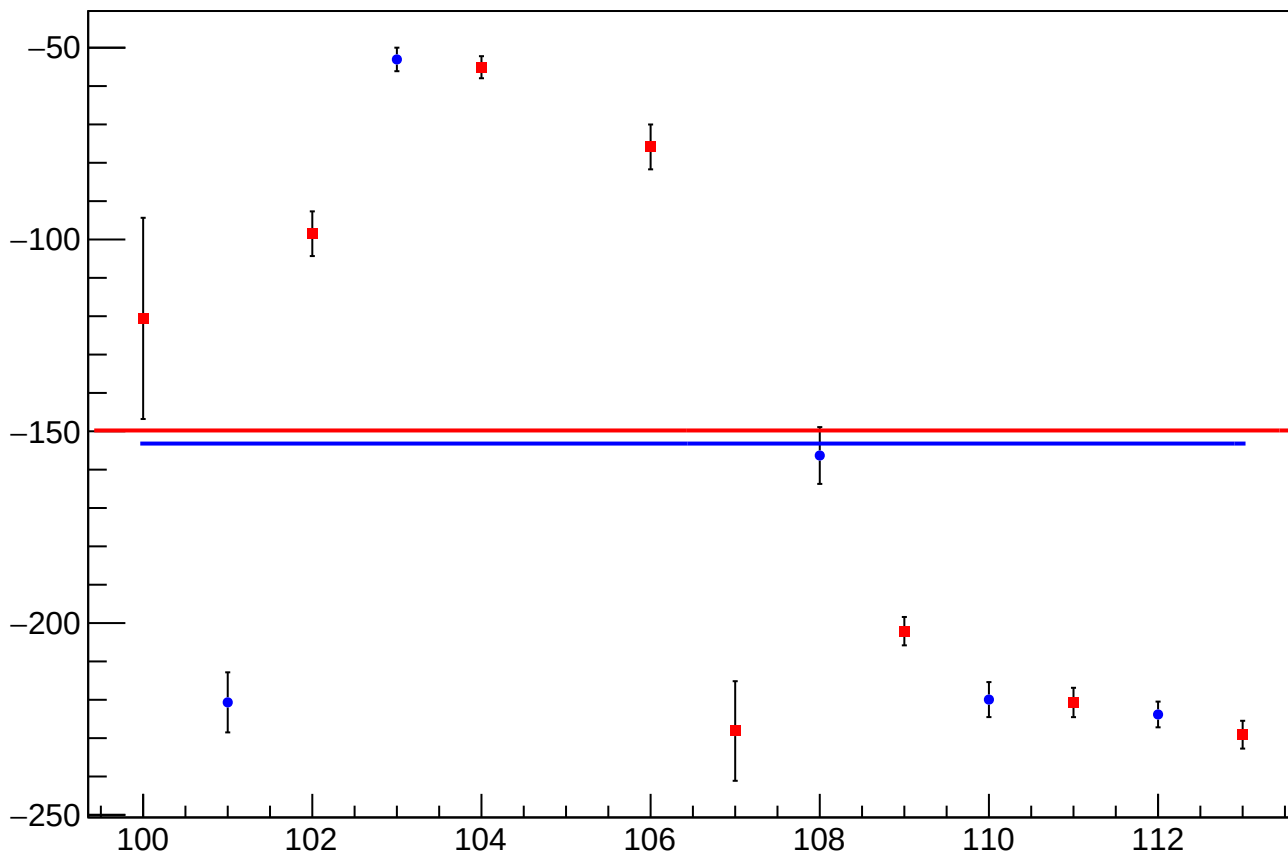
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.790+/-0.045  $\chi^2/\text{NDF}$ : 501950.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-153.201 \pm 1.897$   $\chi^2/\text{NDF}: 1798.1/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-149.788 \pm 1.572$   $\chi^2/\text{NDF}: 2381.8/7$

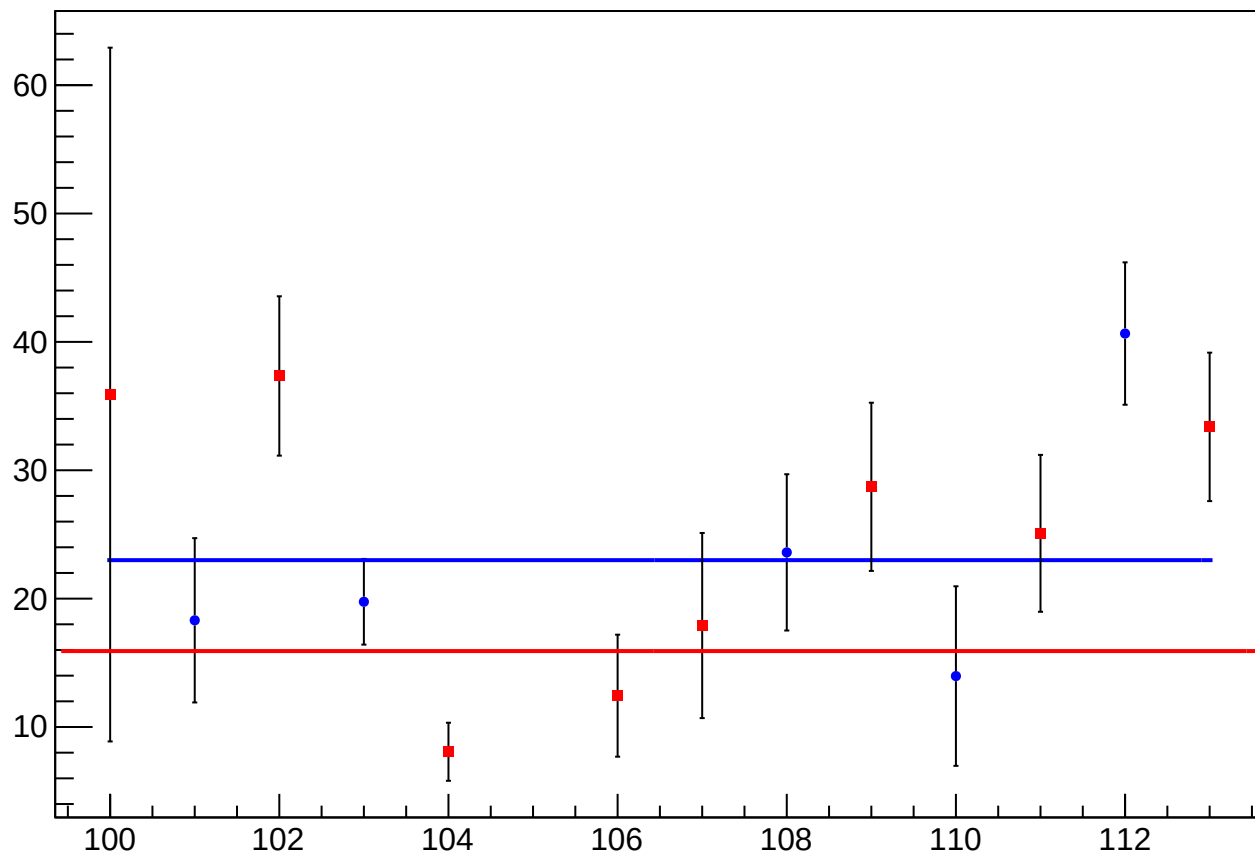
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-151.177 \pm 1.211$   $\chi^2/\text{NDF}: 4181.9/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 22.997 $\pm$ 2.270  $\chi^2$ /NDF: 13.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 15.916 $\pm$ 1.652  $\chi^2$ /NDF: 40.3/7

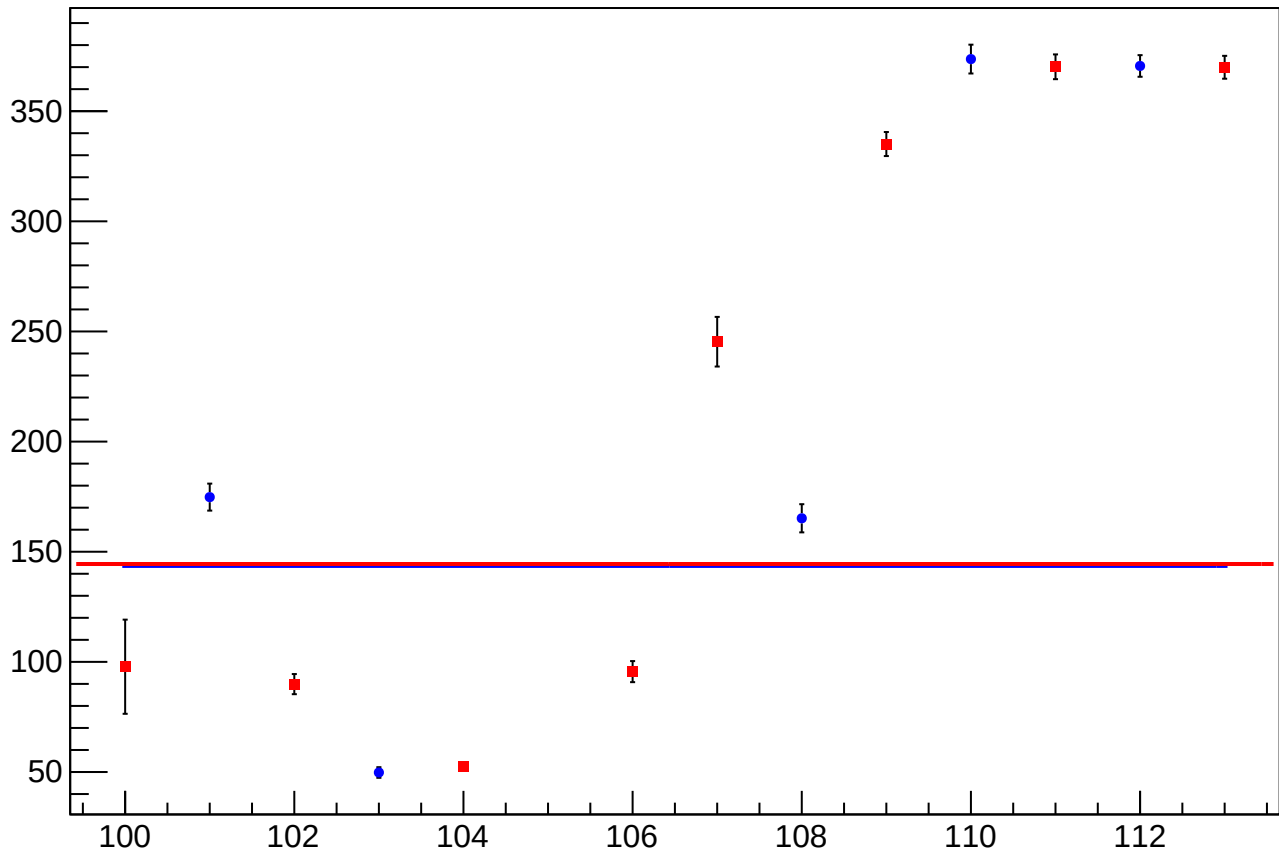
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.369 $\pm$ 1.336  $\chi^2$ /NDF: 59.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 143.563+/-1.863  $\chi^2/\text{NDF}$ : 4926.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 144.429+/-1.584  $\chi^2/\text{NDF}$ : 6688.6/7

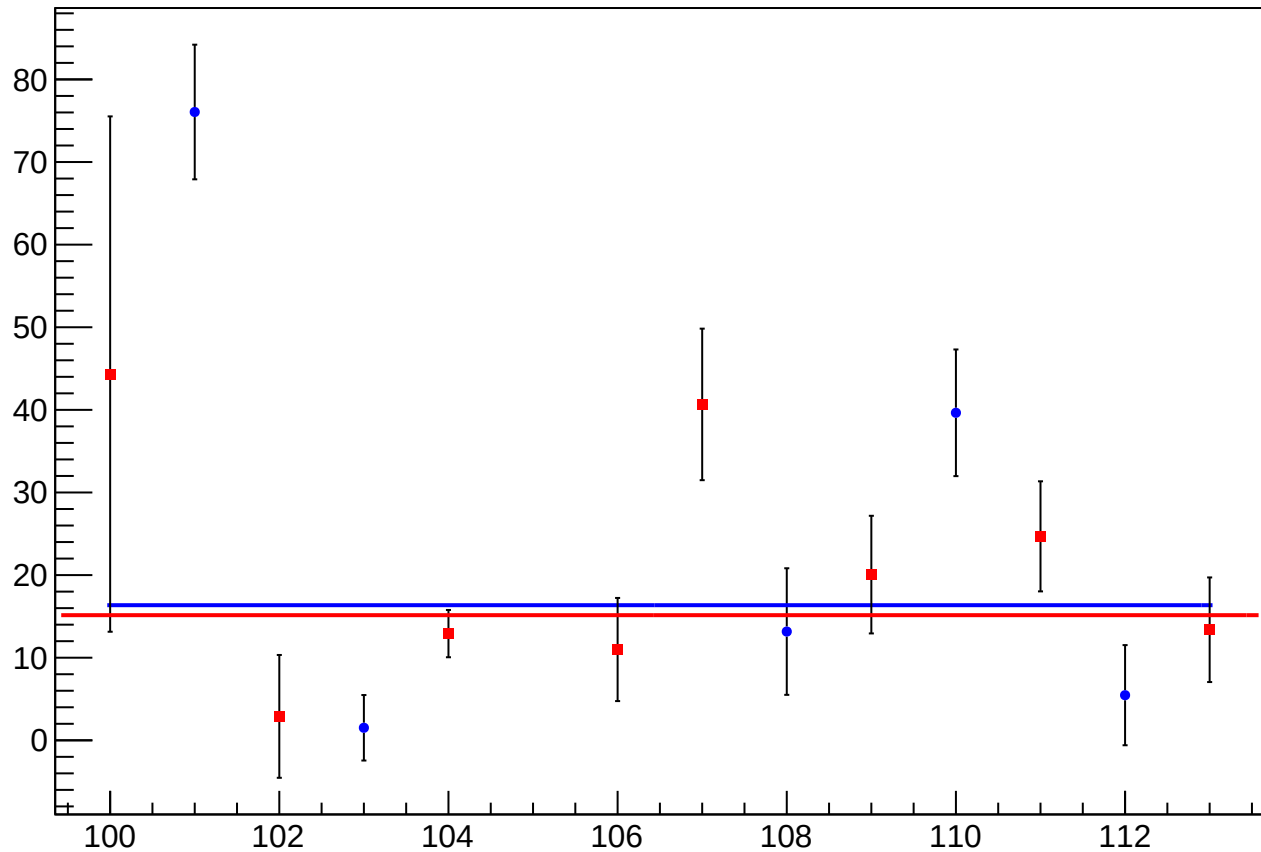
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 144.065+/-1.207  $\chi^2/\text{NDF}$ : 11615.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 16.357 $\pm$ 2.673  $\chi^2$ /NDF: 80.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 15.149 $\pm$ 2.016  $\chi^2$ /NDF: 15.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

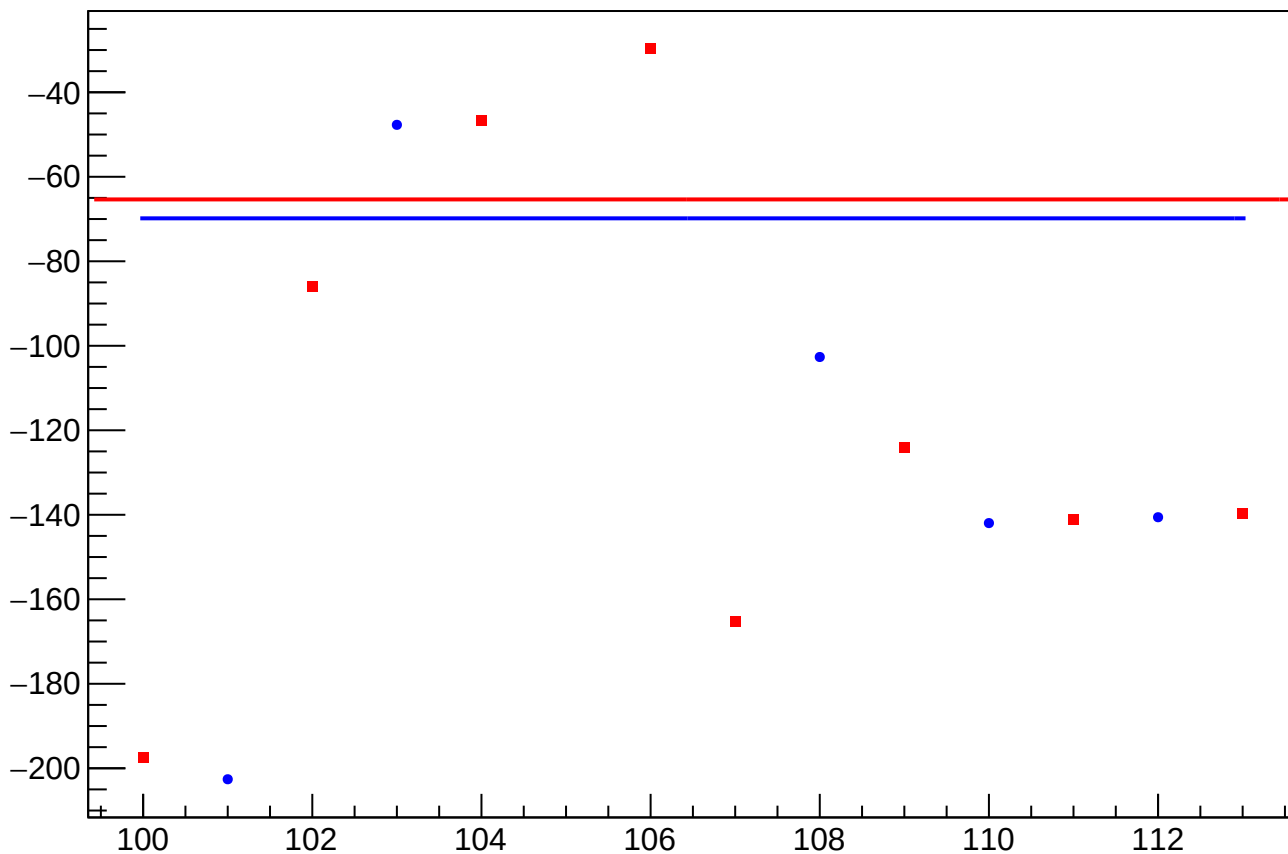
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 15.587 $\pm$ 1.610  $\chi^2$ /NDF: 95.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -69.836 $\pm$ 0.087  $\chi^2$ /NDF: 248267.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -65.359 $\pm$ 0.079  $\chi^2$ /NDF: 222654.2/7

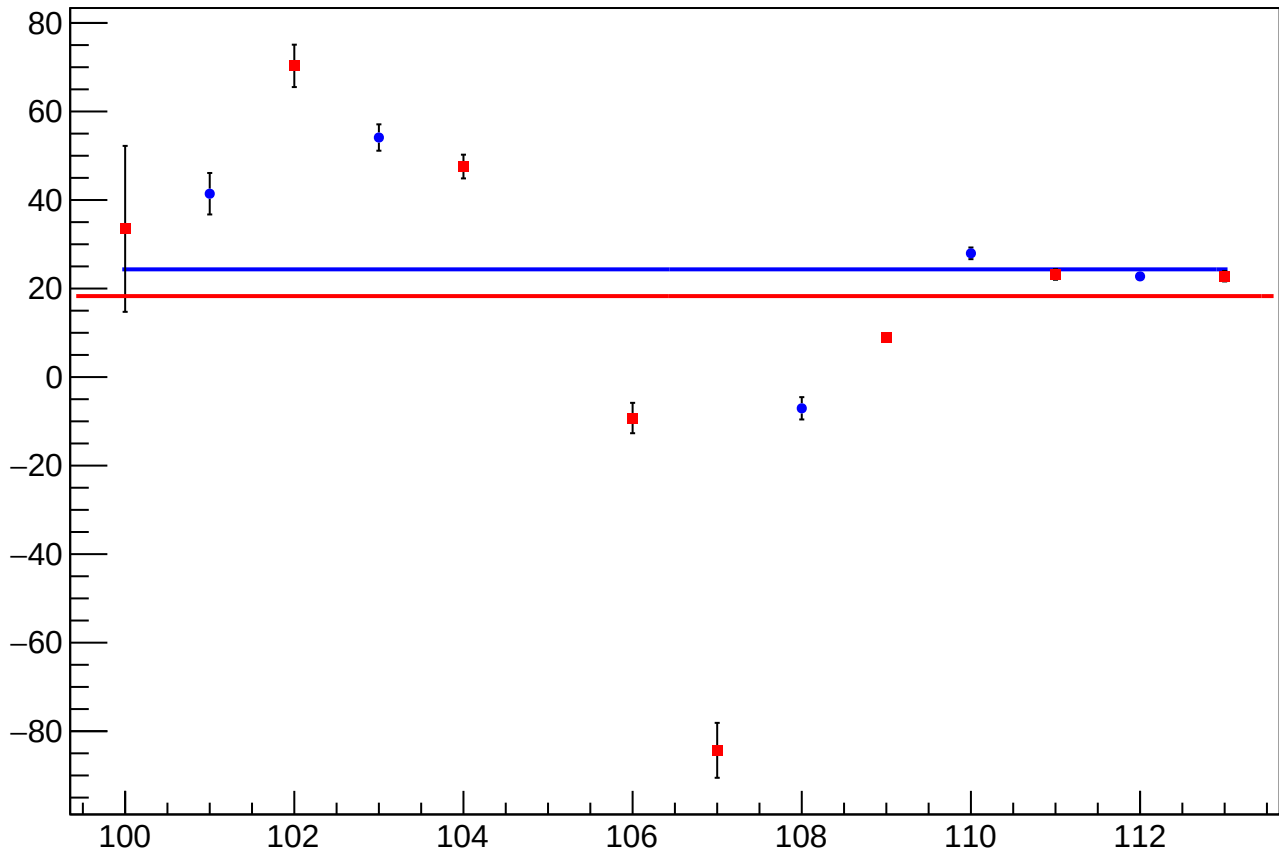
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -67.384 $\pm$ 0.059  $\chi^2$ /NDF: 472365.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 24.334 $\pm$ 0.767  $\chi^2$ /NDF: 277.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18.294 $\pm$ 0.626  $\chi^2$ /NDF: 680.9/7

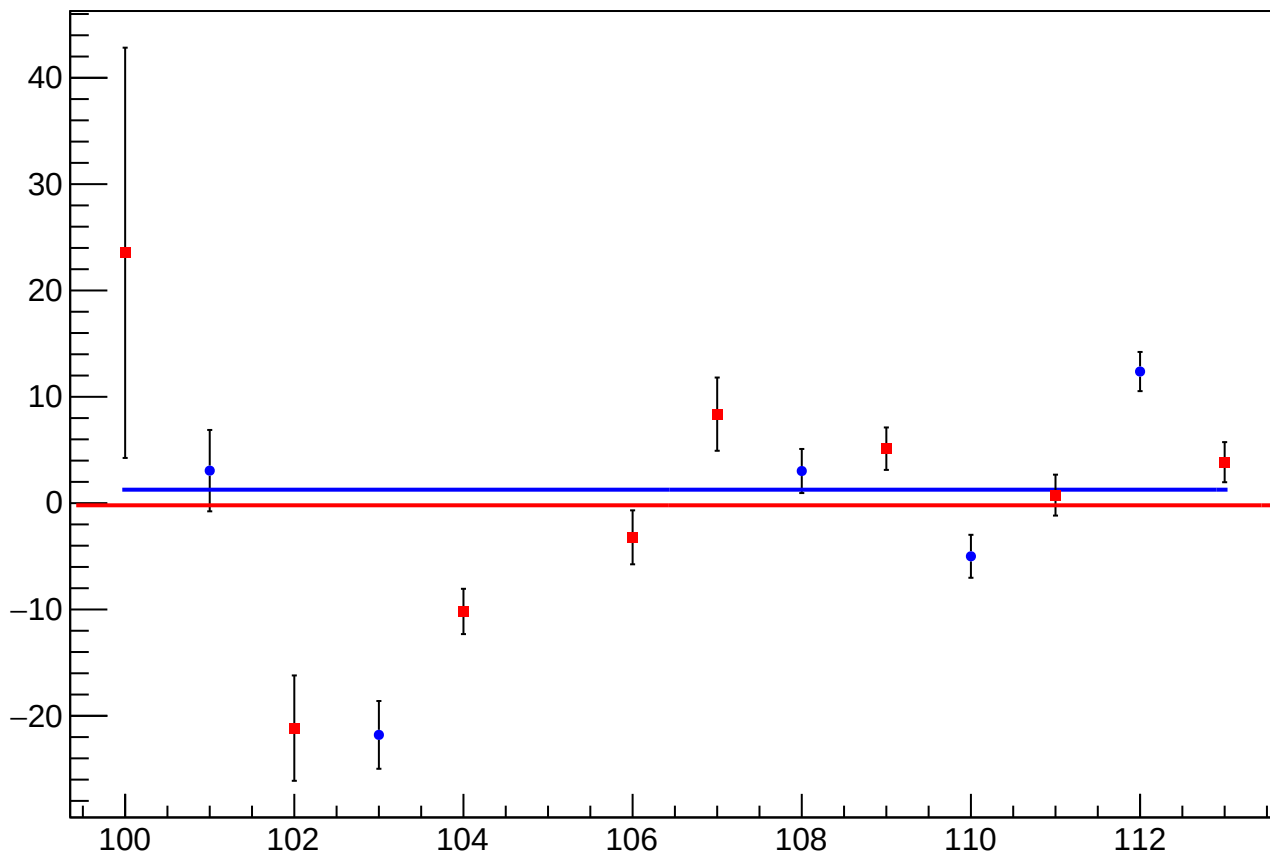
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 20.706 $\pm$ 0.485  $\chi^2$ /NDF: 995.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 1.266 $\pm$ 1.032  $\chi^2$ /NDF: 99.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.202 $\pm$ 0.875  $\chi^2$ /NDF: 61.0/7

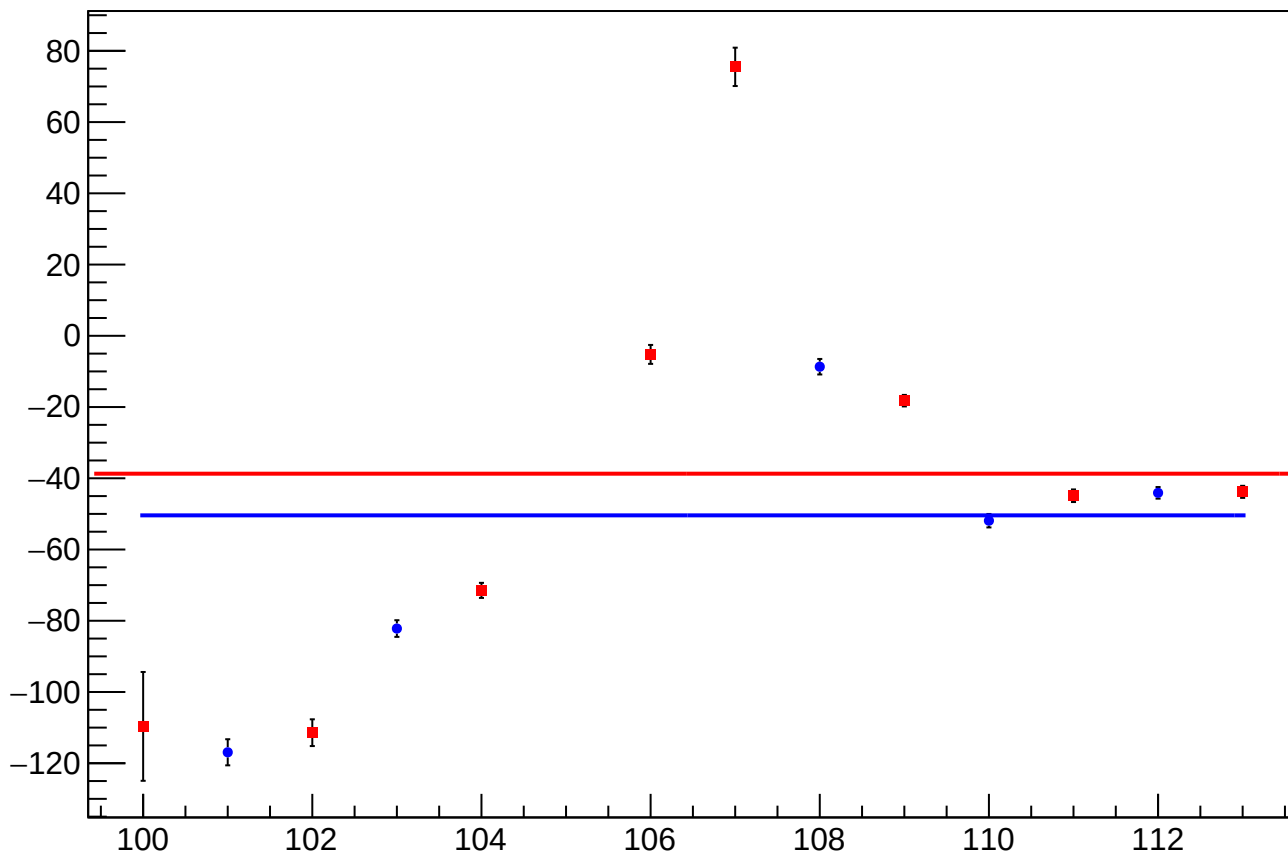
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.412 $\pm$ 0.667  $\chi^2$ /NDF: 161.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-50.409 \pm 0.943$   $\chi^2/\text{NDF}$ : 896.9/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-38.712 \pm 0.809$   $\chi^2/\text{NDF}$ : 1427.8/7

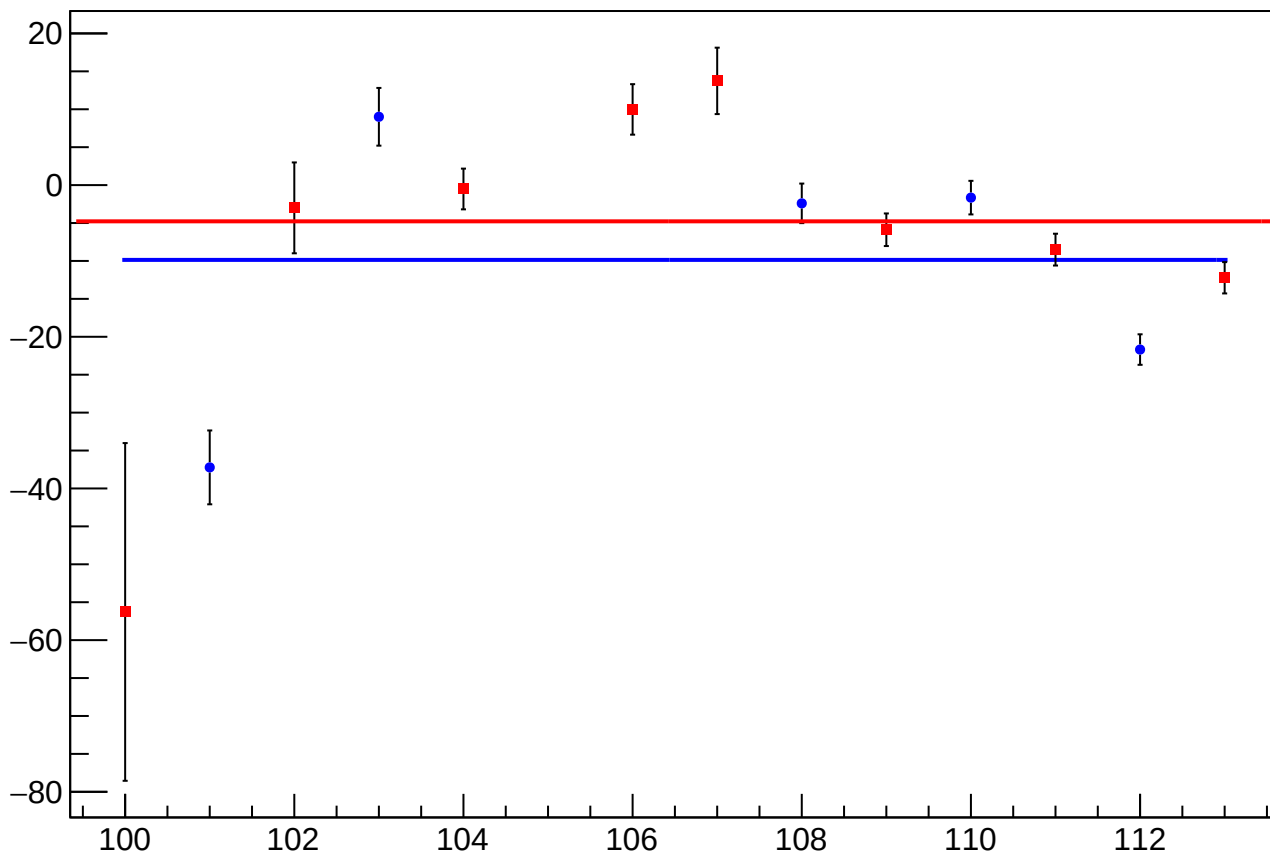
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-43.677 \pm 0.614$   $\chi^2/\text{NDF}$ : 2413.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -9.862 $\pm$ 1.187  $\chi^2$ /NDF: 112.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4.778 $\pm$ 1.005  $\chi^2$ /NDF: 61.9/7

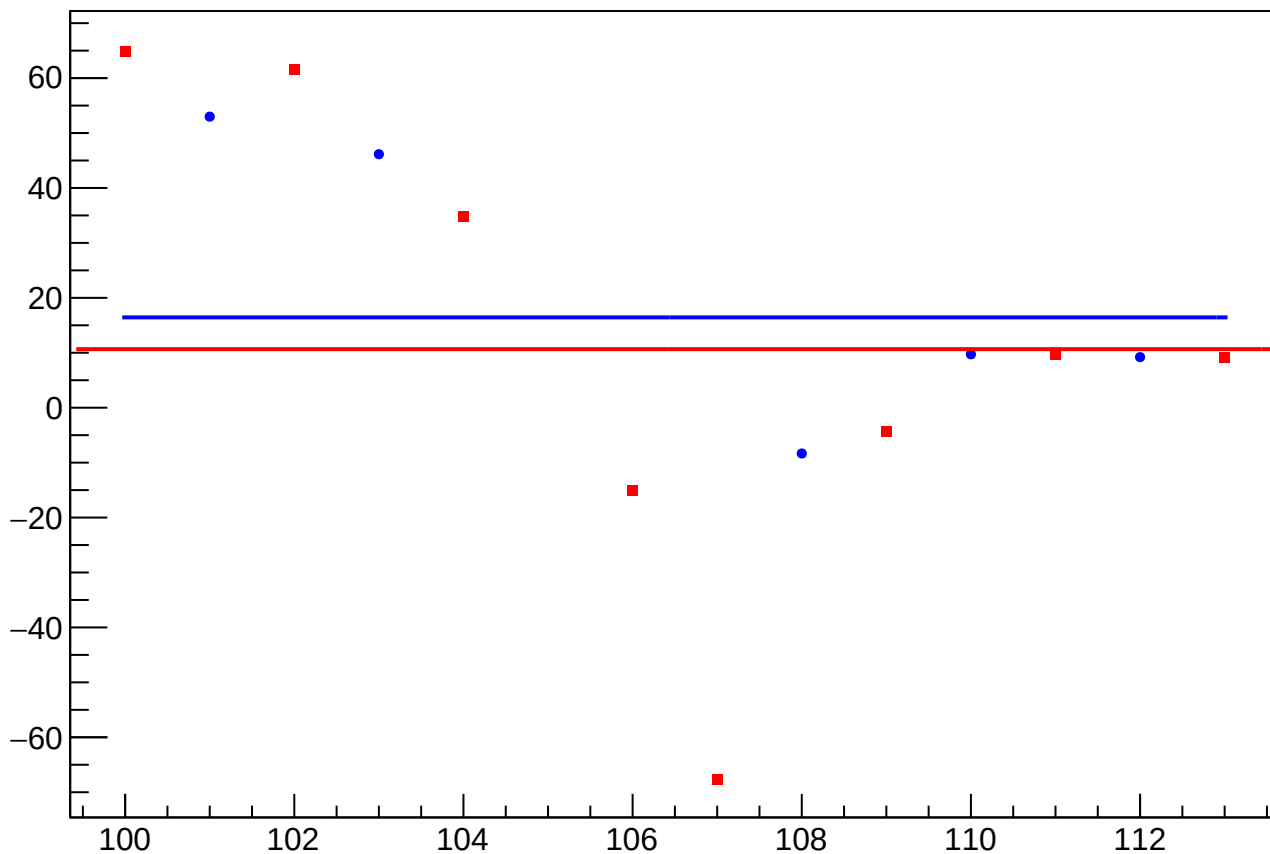
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.901 $\pm$ 0.767  $\chi^2$ /NDF: 185.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 16.440 $\pm$ 0.053  $\chi^2$ /NDF: 203296.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.659 $\pm$ 0.050  $\chi^2$ /NDF: 342033.6/7

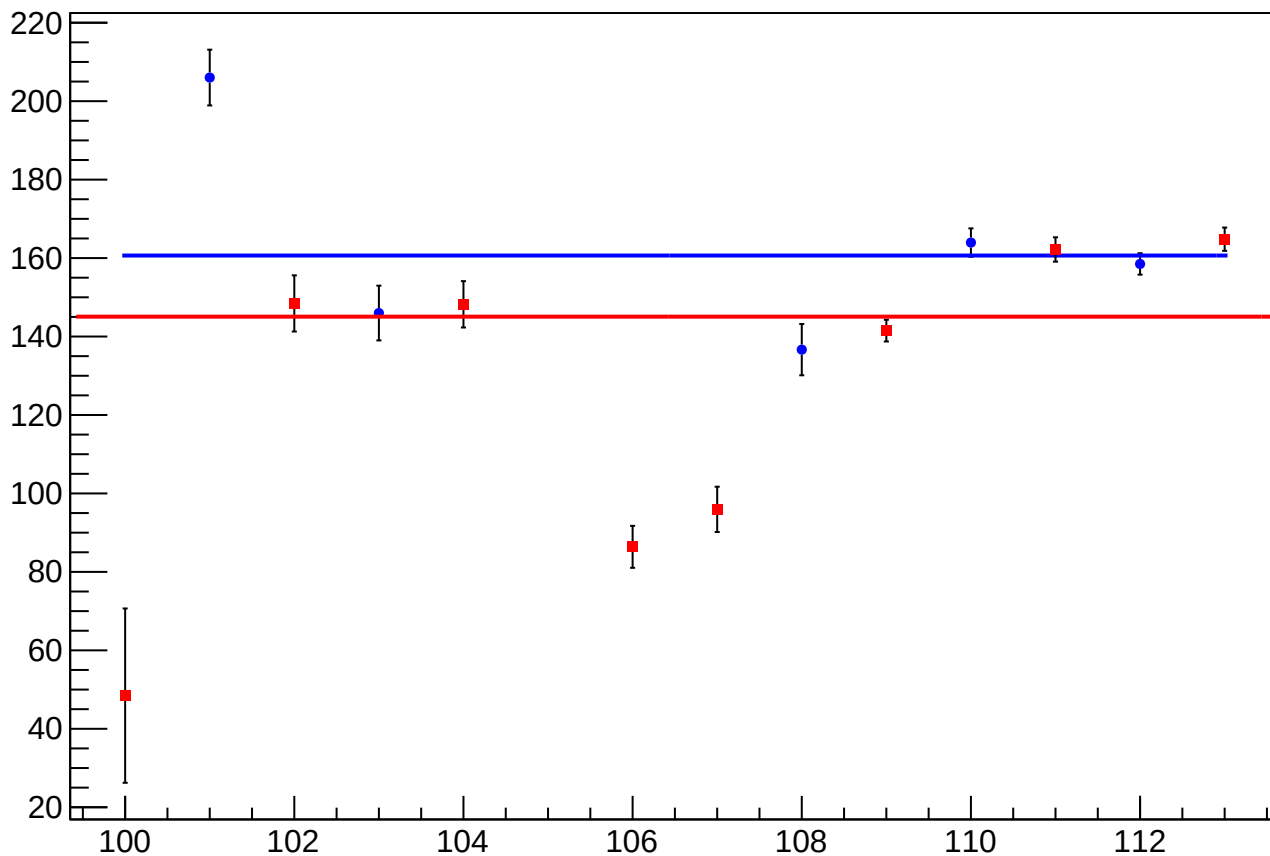
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 13.372 $\pm$ 0.036  $\chi^2$ /NDF: 551620.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 160.651 $\pm$ 1.910  $\chi^2$ /NDF: 60.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 145.068 $\pm$ 1.470  $\chi^2$ /NDF: 288.5/7

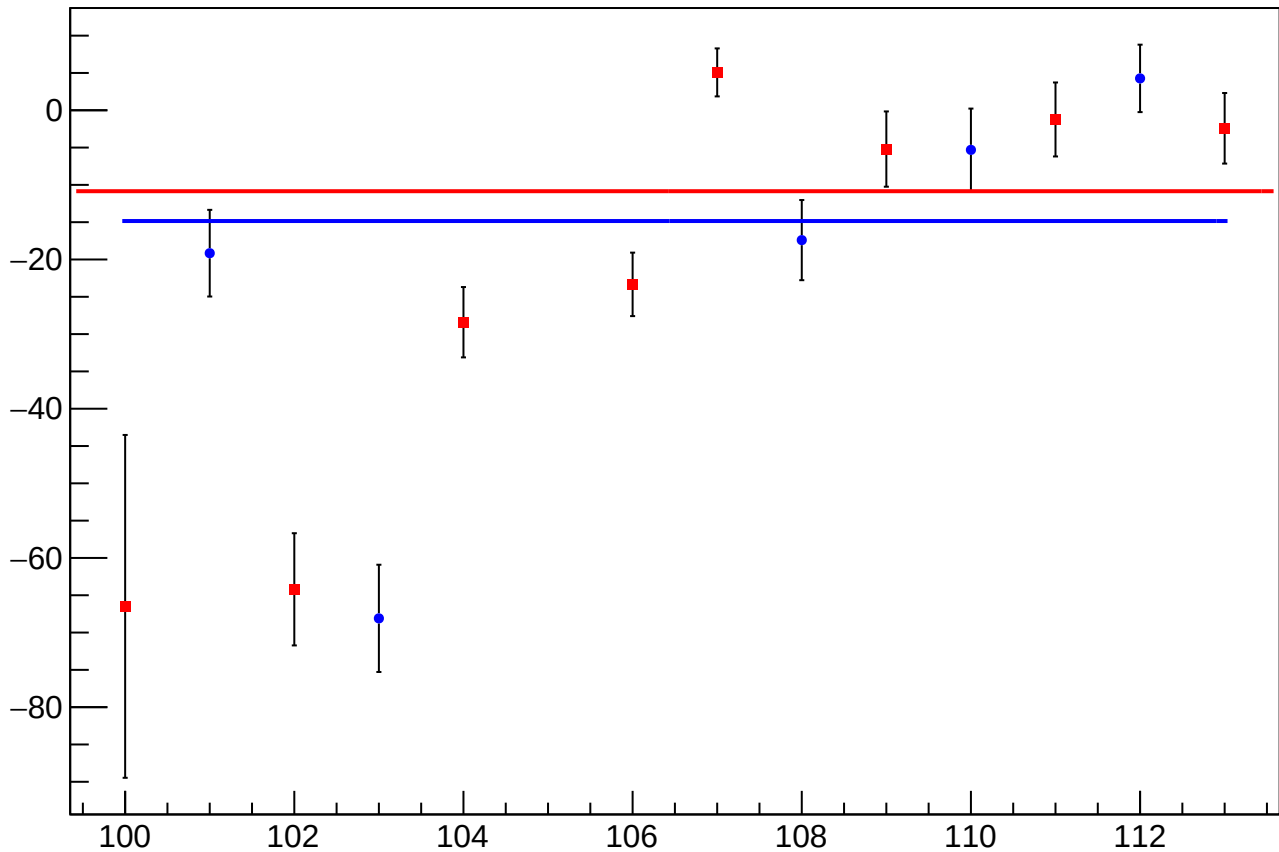
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 150.866 $\pm$ 1.165  $\chi^2$ /NDF: 390.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -14.845 $\pm$ 2.460  $\chi^2$ /NDF: 76.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -10.848 $\pm$ 1.712  $\chi^2$ /NDF: 111.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

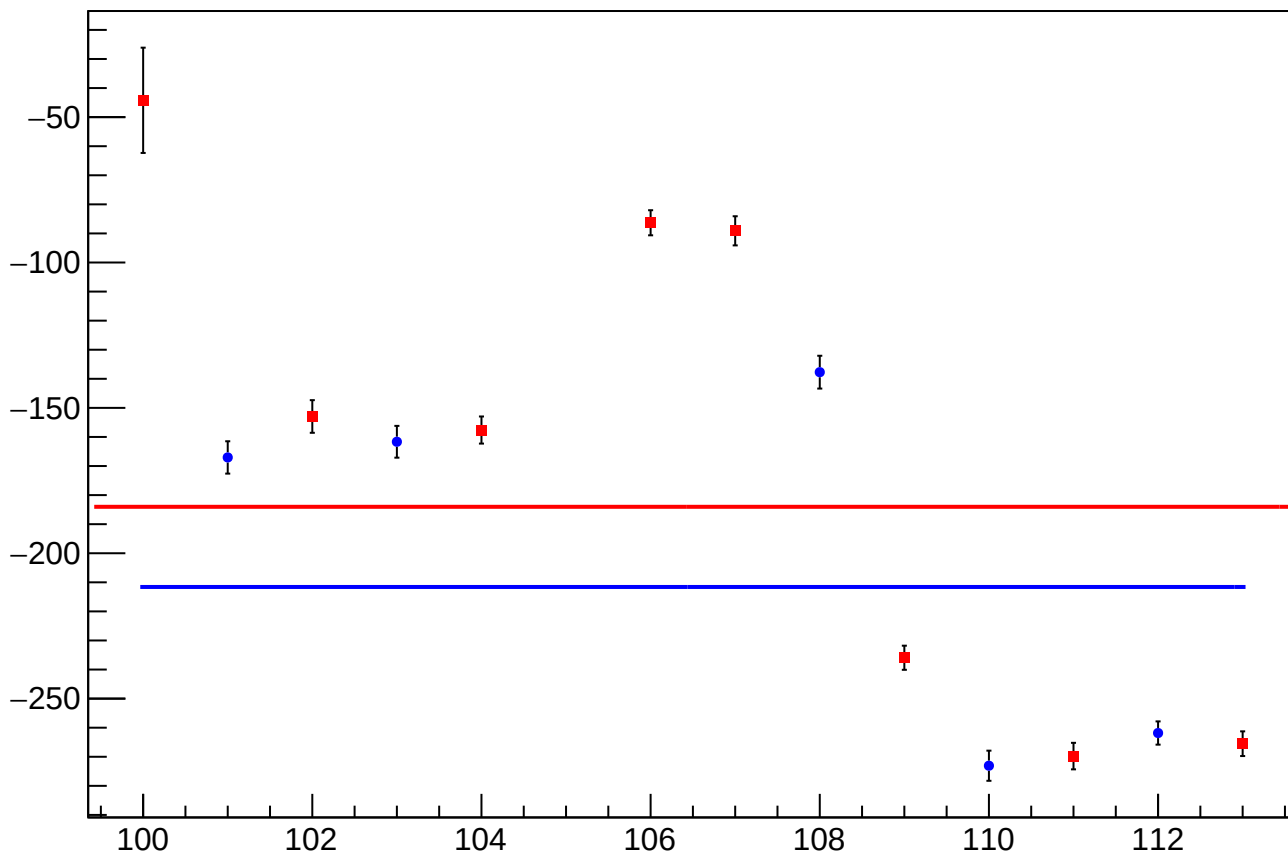
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -12.152 $\pm$ 1.405  $\chi^2$ /NDF: 189.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -211.597 $\pm$ 2.254  $\chi^2$ /NDF: 617.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -184.024 $\pm$ 1.725  $\chi^2$ /NDF: 1871.8/7

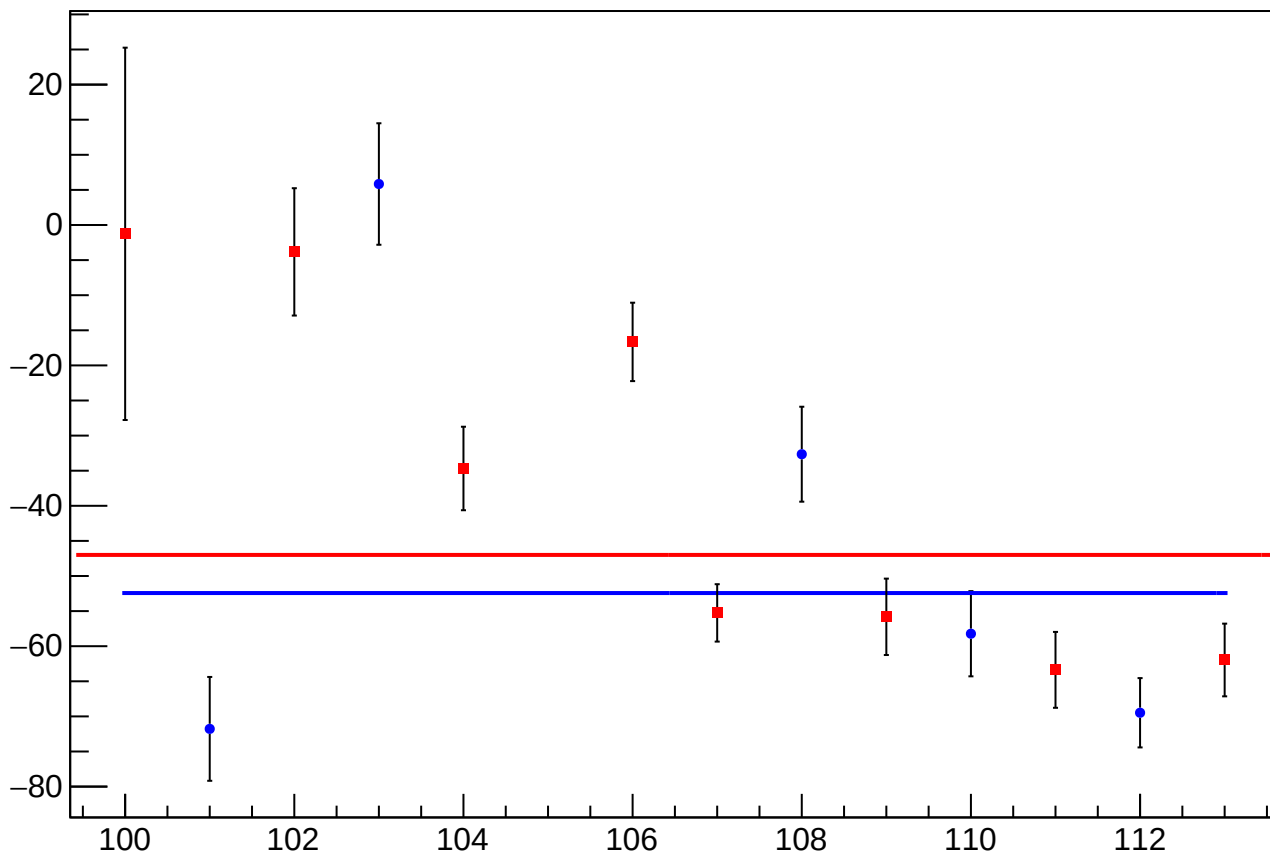
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -194.212 $\pm$ 1.370  $\chi^2$ /NDF: 2583.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -52.428 $\pm$ 2.867  $\chi^2$ /NDF: 73.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -46.997 $\pm$ 2.045  $\chi^2$ /NDF: 83.7/7

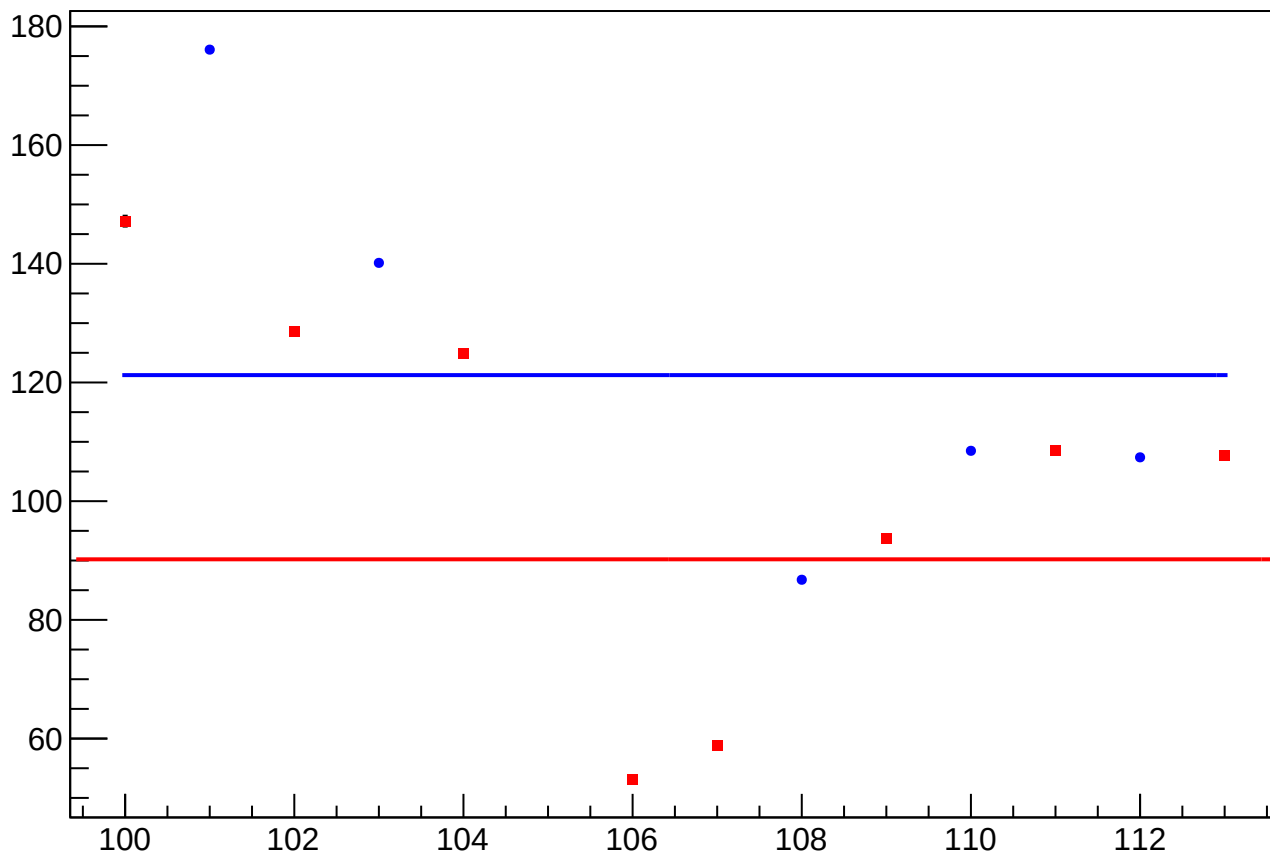
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -48.829 $\pm$ 1.665  $\chi^2$ /NDF: 159.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 121.242 $\pm$ 0.127  $\chi^2$ /NDF: 59071.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 90.203 $\pm$ 0.092  $\chi^2$ /NDF: 118241.8/7

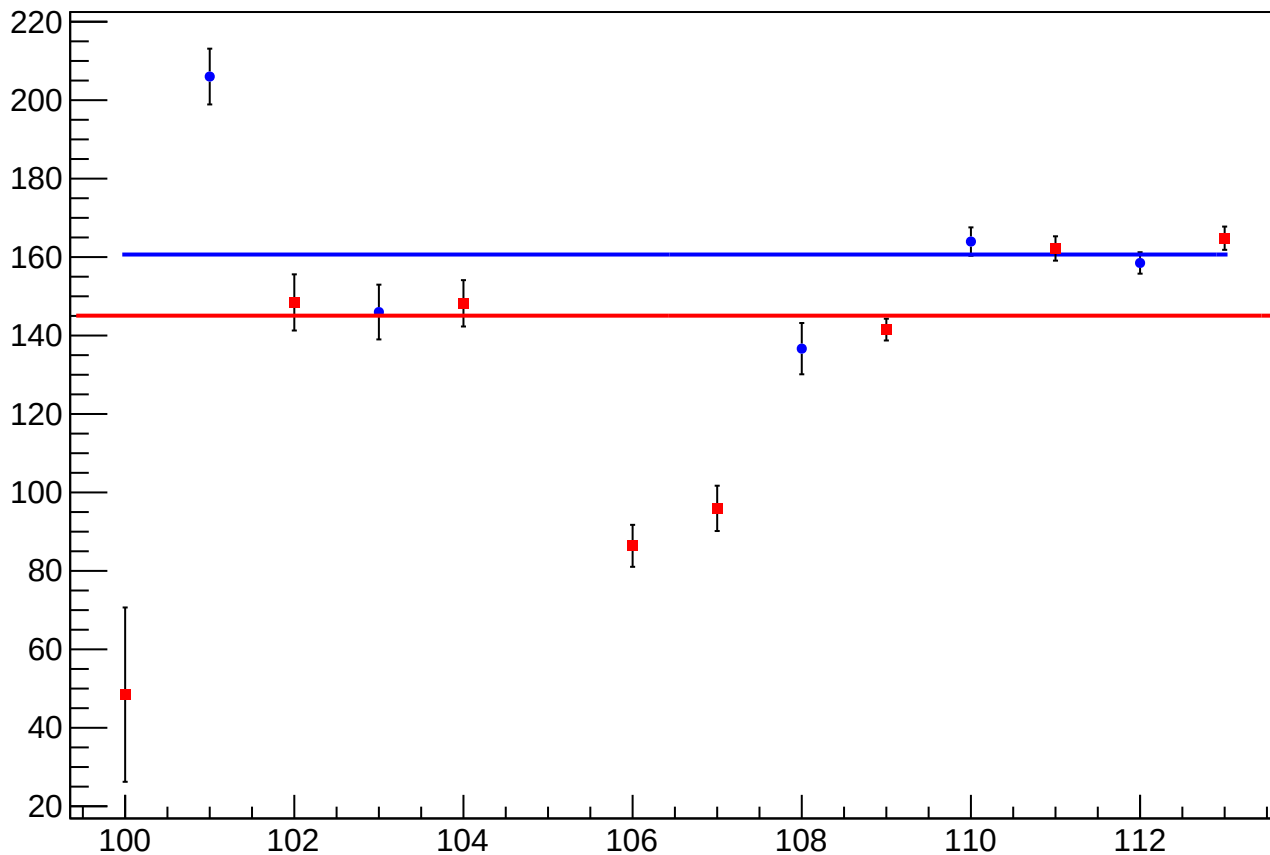
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 100.943 $\pm$ 0.075  $\chi^2$ /NDF: 216342.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 160.651 $\pm$ 1.910  $\chi^2$ /NDF: 60.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 145.068 $\pm$ 1.470  $\chi^2$ /NDF: 288.5/7

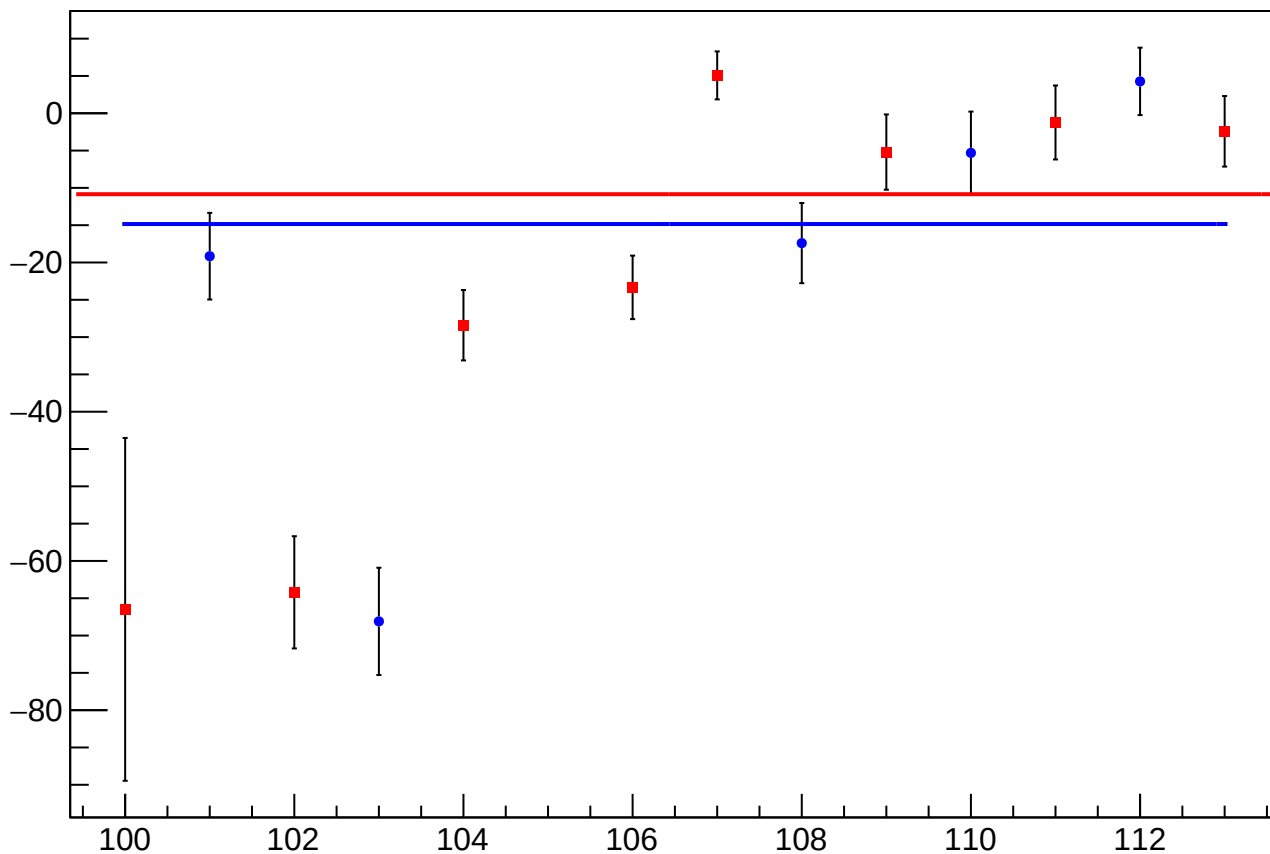
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 150.866 $\pm$ 1.165  $\chi^2$ /NDF: 390.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-14.845 \pm 2.460$   $\chi^2/\text{NDF}$ : 76.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-10.848 \pm 1.712$   $\chi^2/\text{NDF}$ : 111.4/7

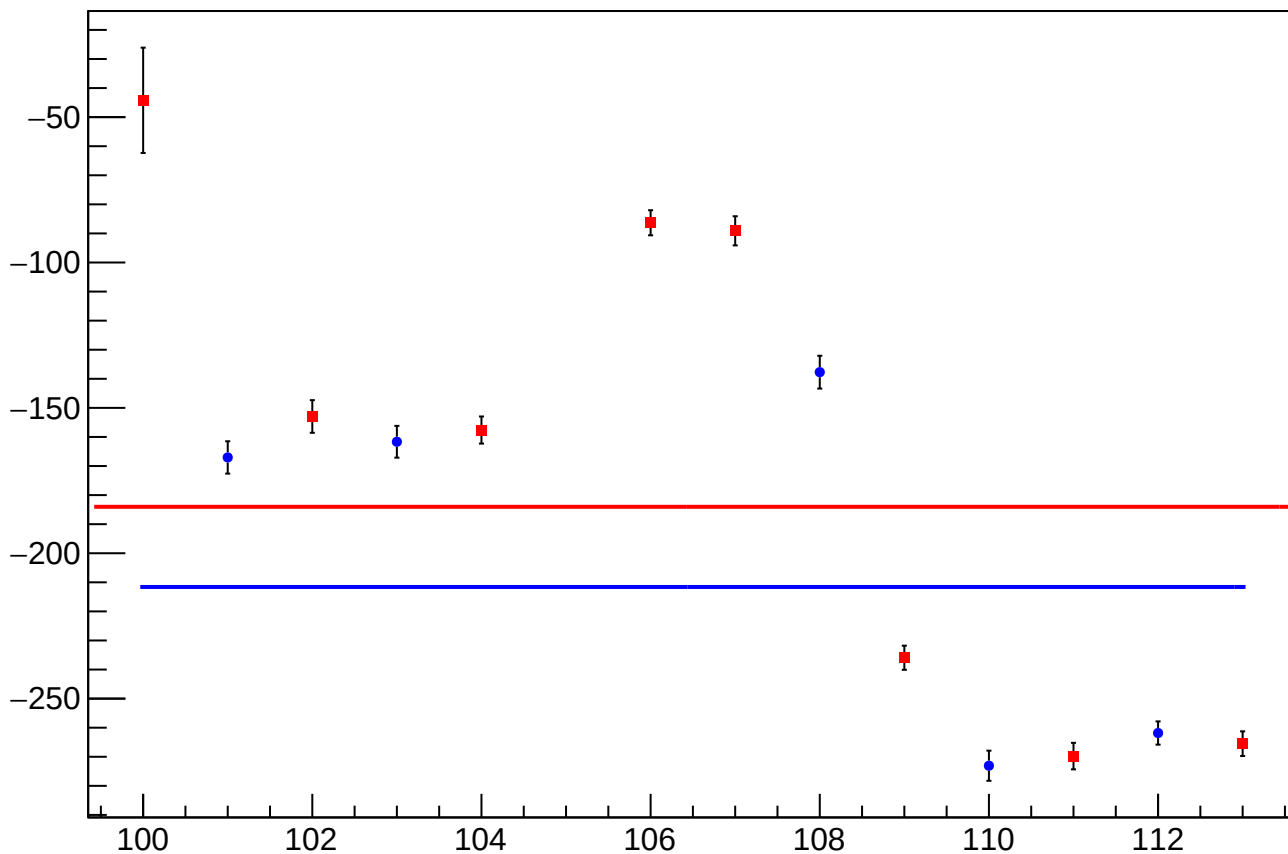
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-12.152 \pm 1.405$   $\chi^2/\text{NDF}$ : 189.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-211.597 \pm 2.254$   $\chi^2/\text{NDF}$ : 617.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-184.024 \pm 1.725$   $\chi^2/\text{NDF}$ : 1871.8/7

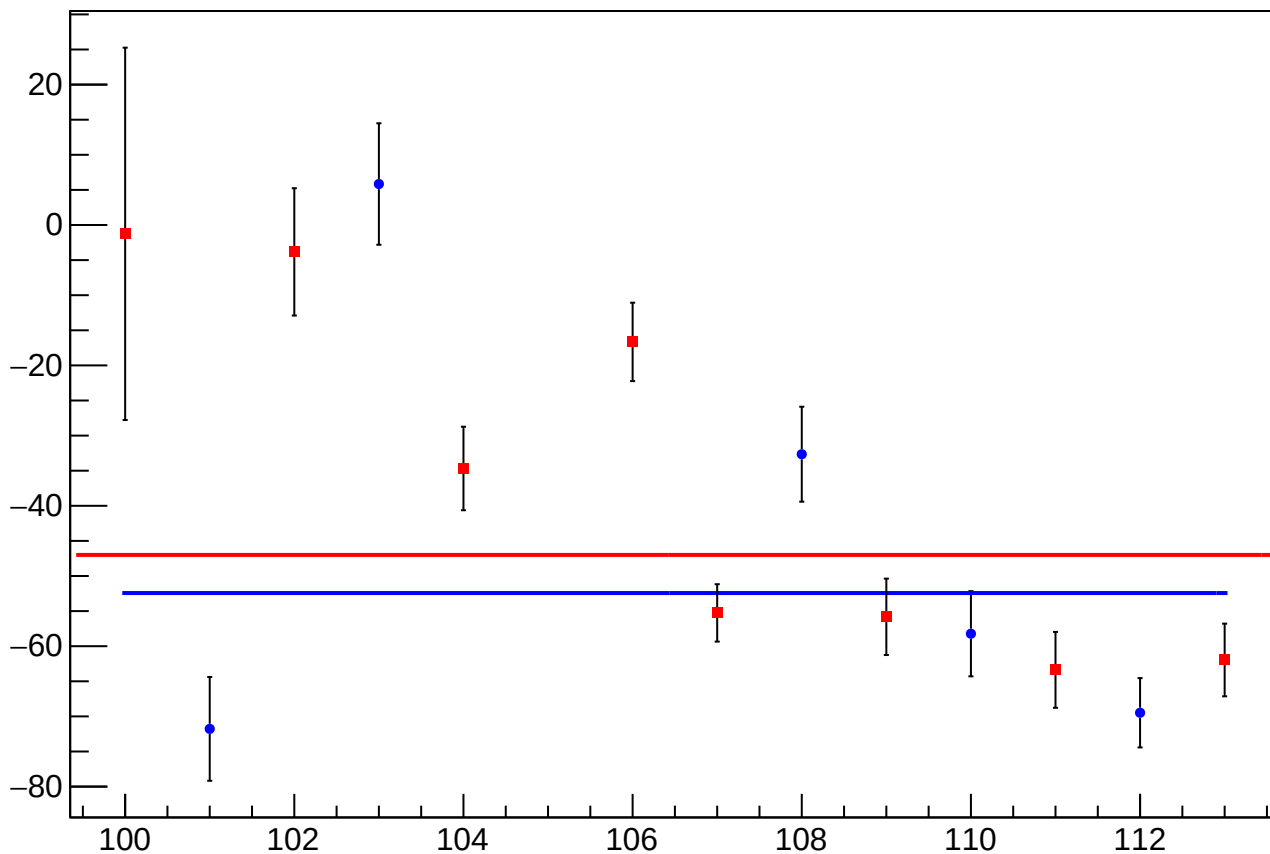
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-194.212 \pm 1.370$   $\chi^2/\text{NDF}$ : 2583.5/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-52.428 \pm 2.867$   $\chi^2/\text{NDF}$ : 73.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-46.997 \pm 2.045$   $\chi^2/\text{NDF}$ : 83.7/7

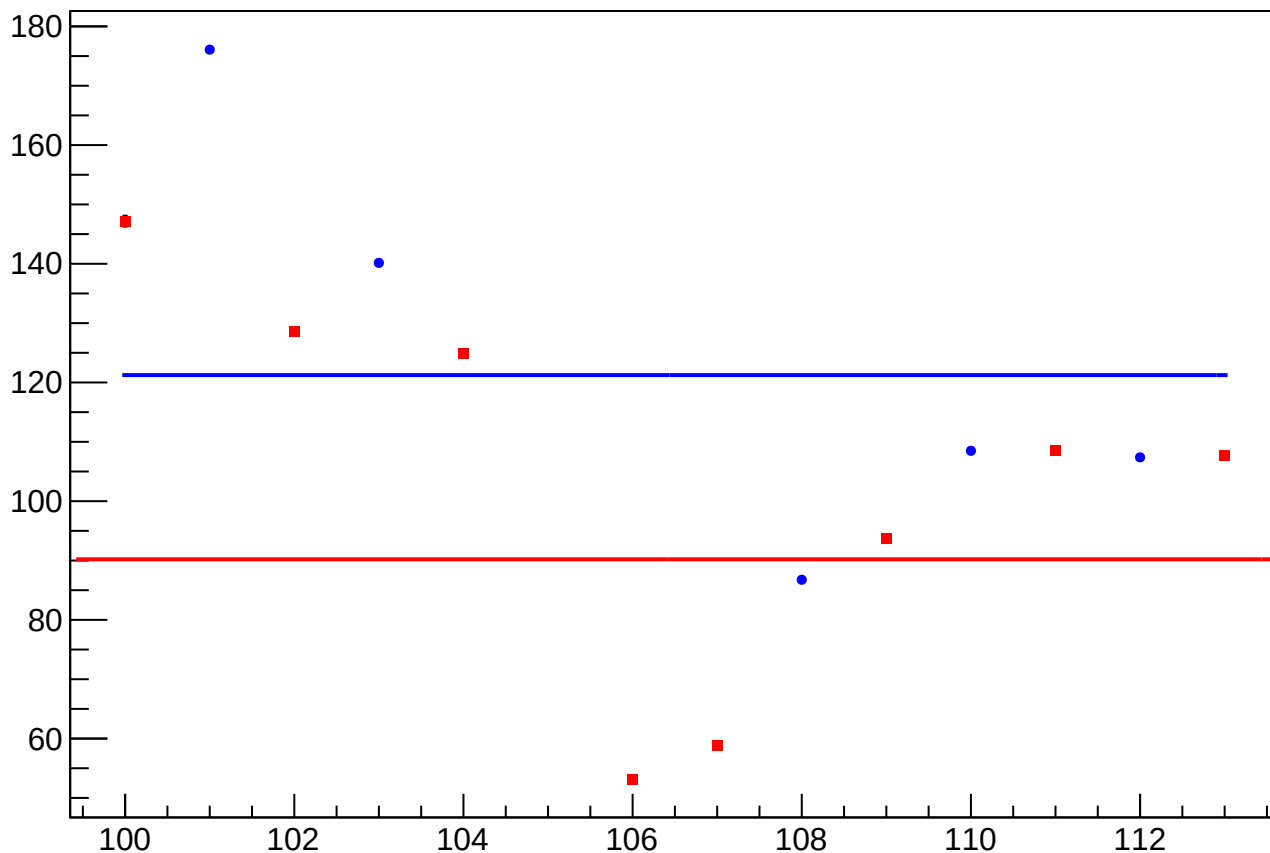
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-48.829 \pm 1.665$   $\chi^2/\text{NDF}$ : 159.6/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 121.242 $\pm$ 0.127  $\chi^2$ /NDF: 59071.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 90.203 $\pm$ 0.092  $\chi^2$ /NDF: 118241.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

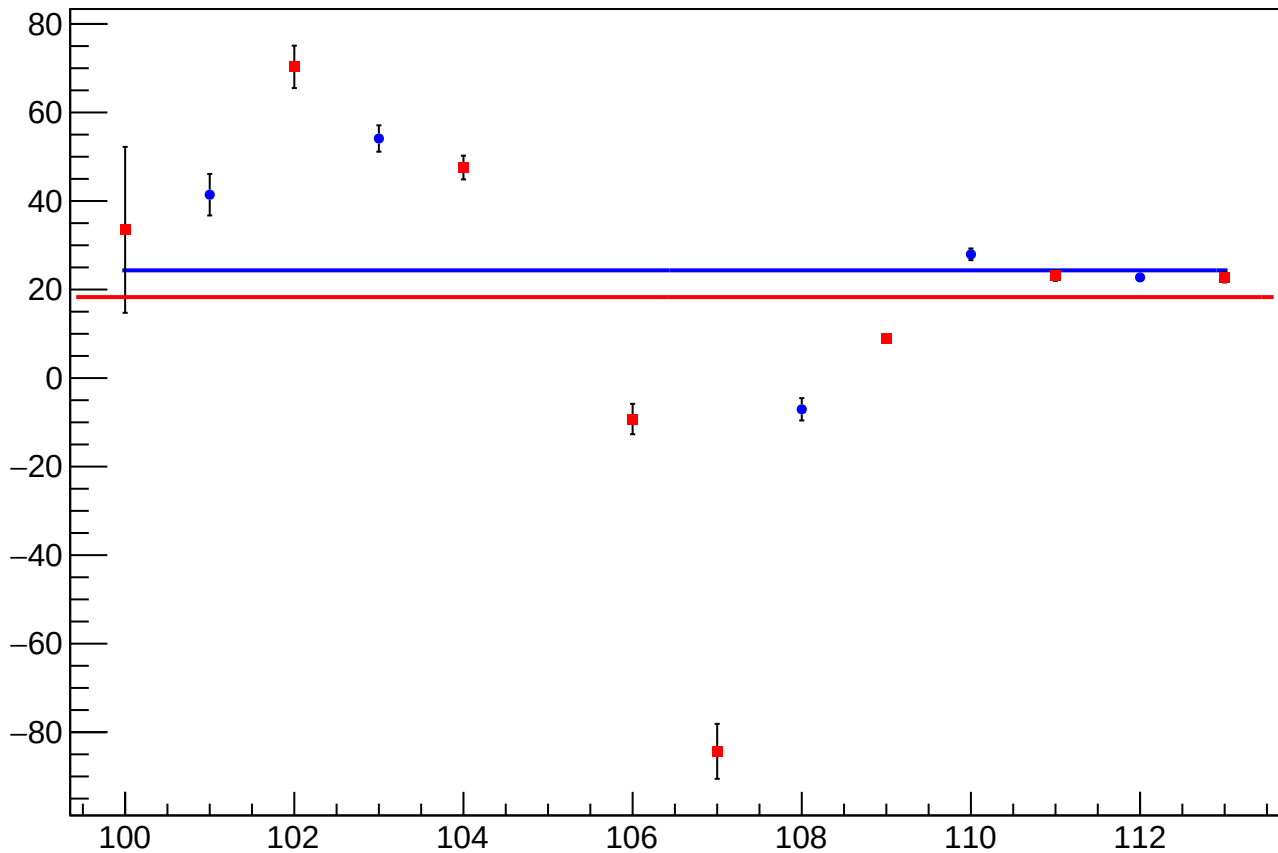
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 100.943 $\pm$ 0.075  $\chi^2$ /NDF: 216342.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 24.334+/-0.767  $\chi^2/\text{NDF}$ : 277.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.294+/-0.626  $\chi^2/\text{NDF}$ : 680.9/7

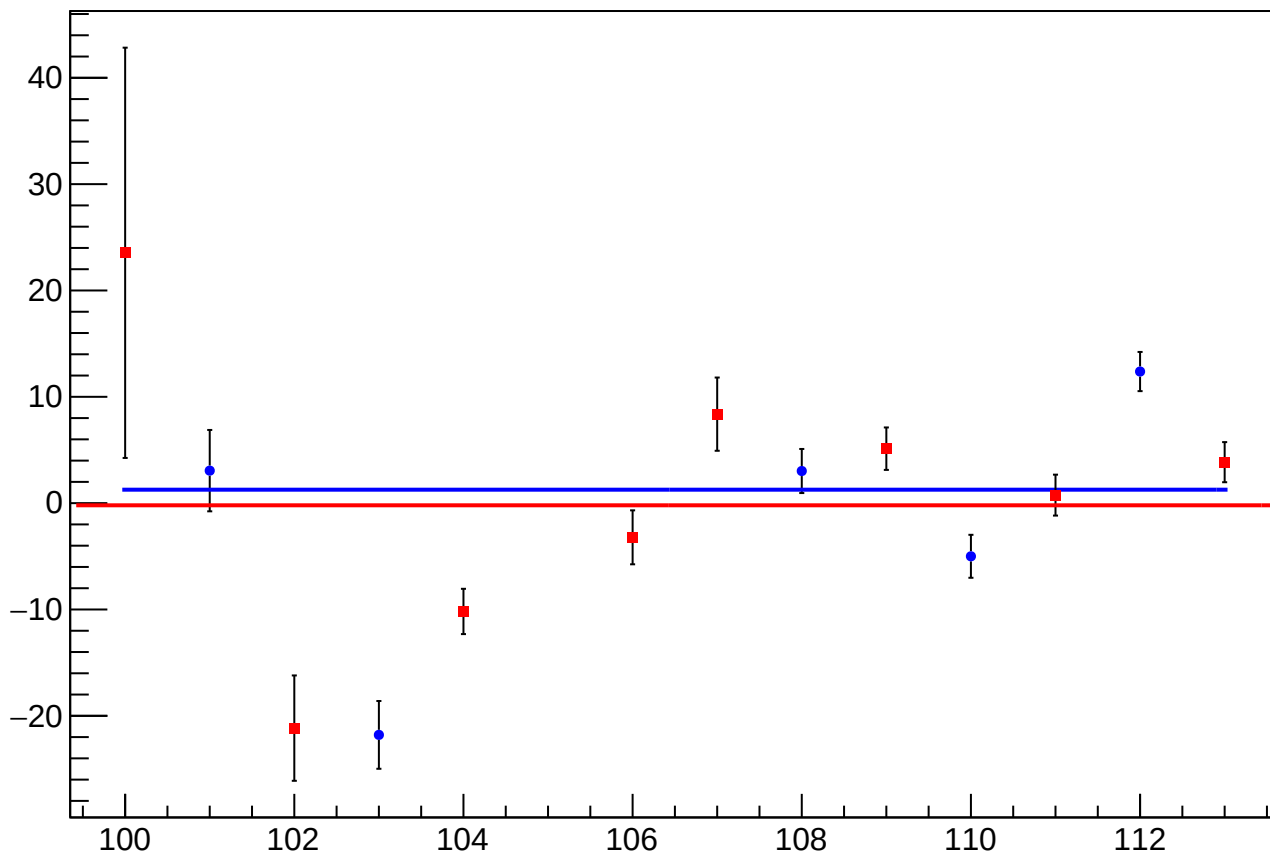
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.706+/-0.485  $\chi^2/\text{NDF}$ : 995.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 1.266 $\pm$ 1.032  $\chi^2$ /NDF: 99.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.202 $\pm$ 0.875  $\chi^2$ /NDF: 61.0/7

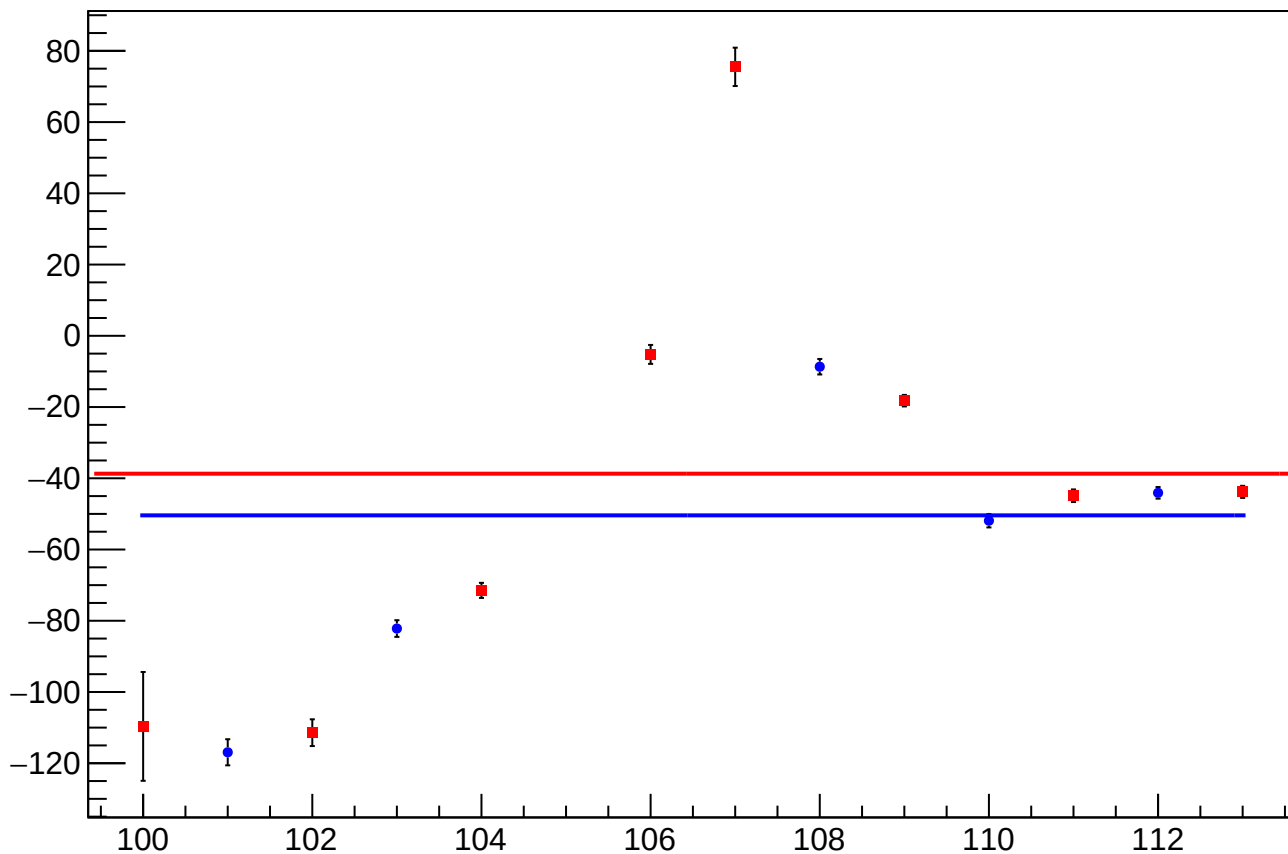
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.412 $\pm$ 0.667  $\chi^2$ /NDF: 161.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -50.409 $\pm$ 0.943  $\chi^2$ /NDF: 896.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -38.712 $\pm$ 0.809  $\chi^2$ /NDF: 1427.8/7

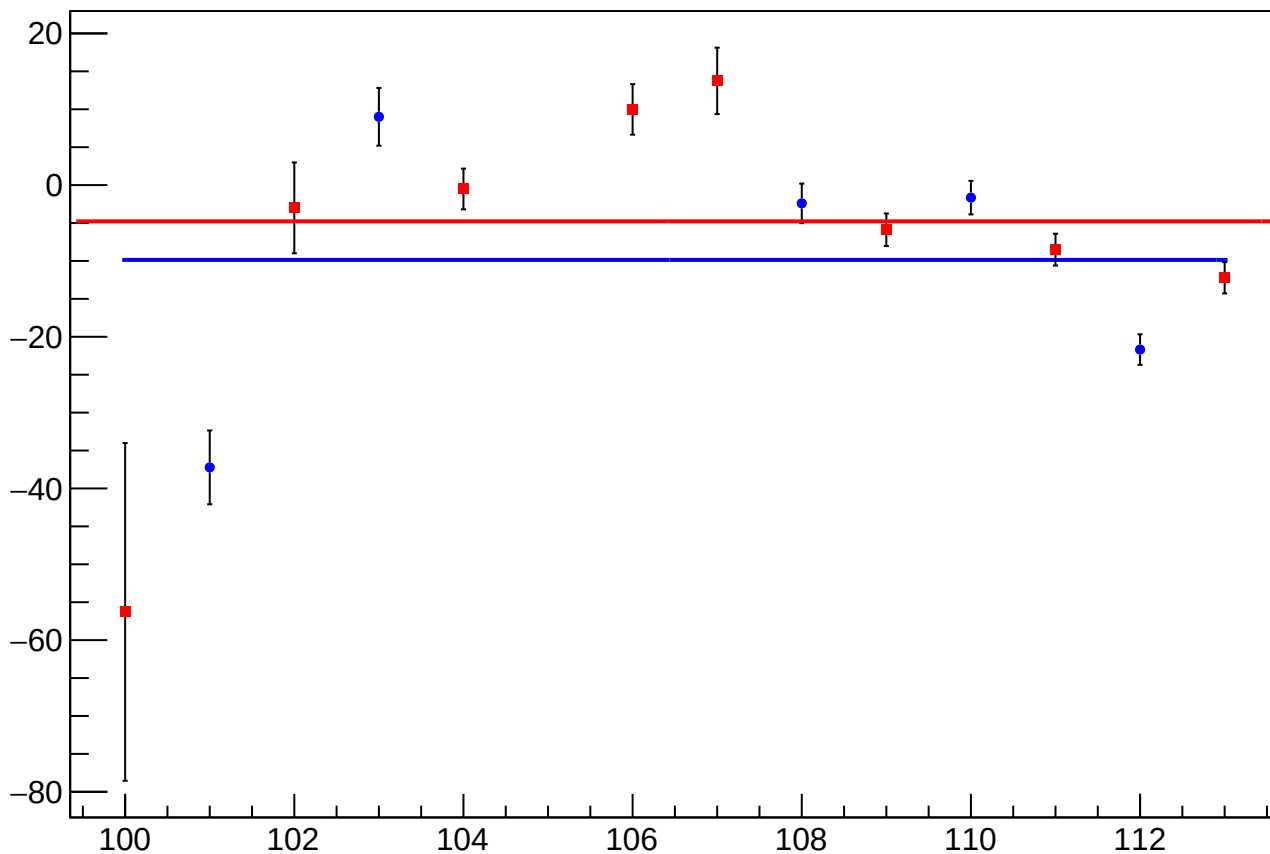
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -43.677 $\pm$ 0.614  $\chi^2$ /NDF: 2413.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-9.862 \pm 1.187$   $\chi^2/\text{NDF}$ : 112.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.778 \pm 1.005$   $\chi^2/\text{NDF}$ : 61.9/7

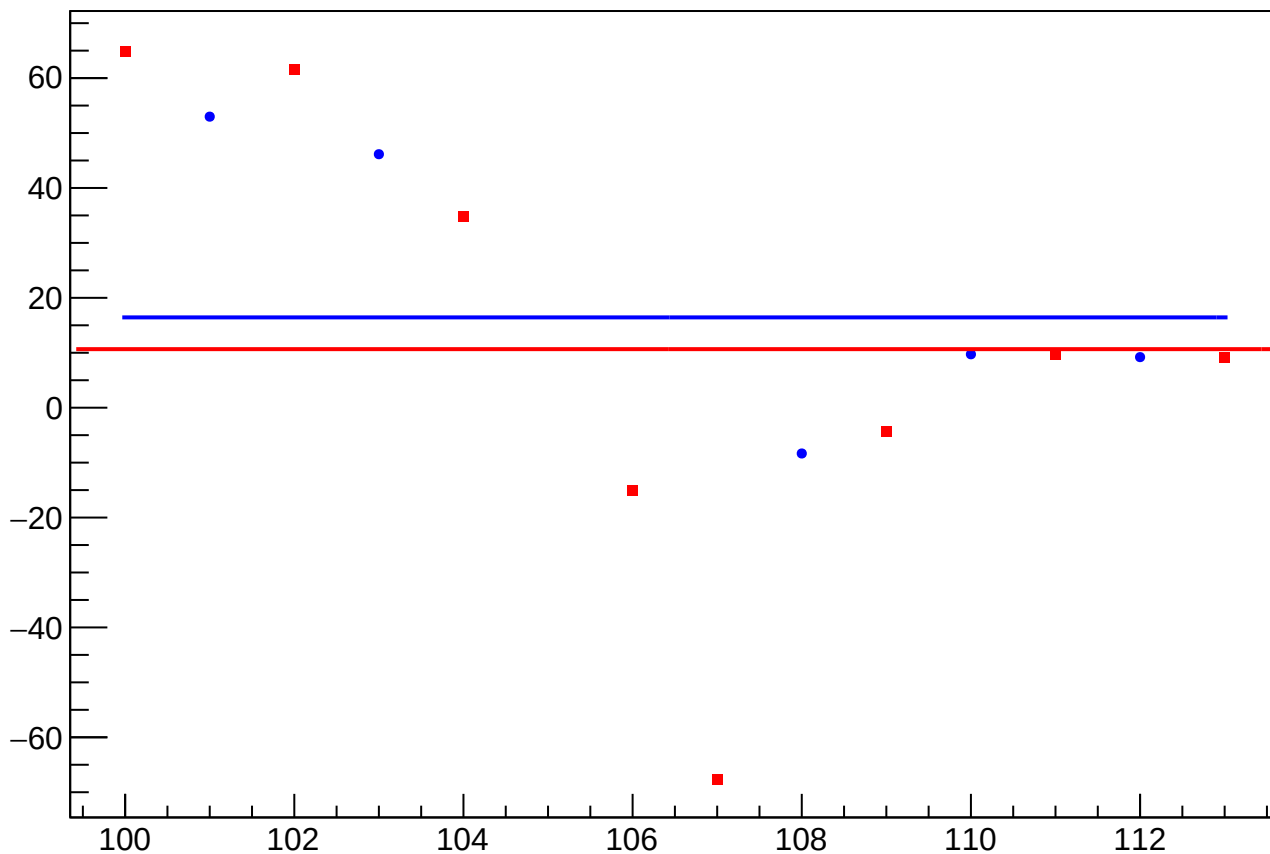
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-6.901 \pm 0.767$   $\chi^2/\text{NDF}$ : 185.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 16.440 $\pm$ 0.053  $\chi^2$ /NDF: 203296.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.659 $\pm$ 0.050  $\chi^2$ /NDF: 342033.6/7

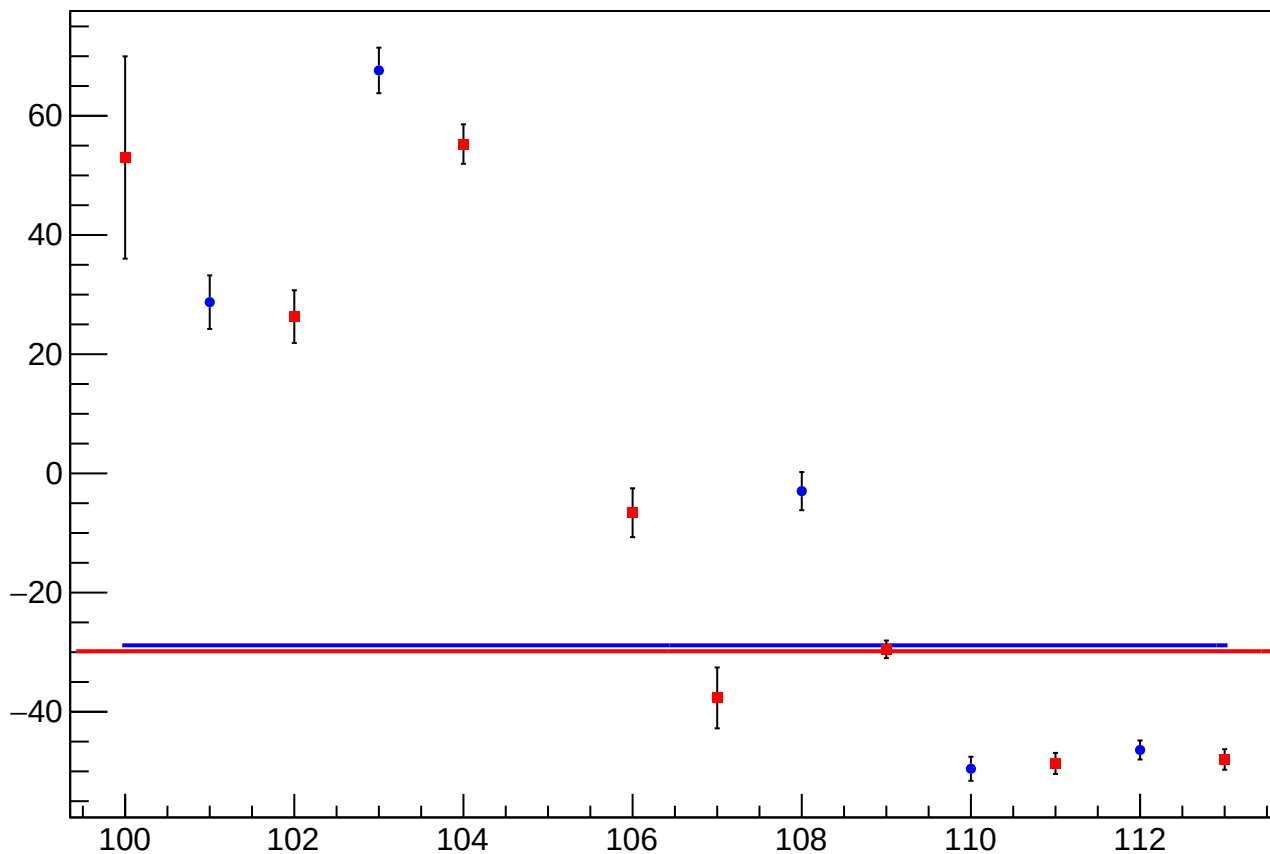
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 13.372 $\pm$ 0.036  $\chi^2$ /NDF: 551620.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -28.845 $\pm$ 1.082  $\chi^2$ /NDF: 1093.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -29.832 $\pm$ 0.857  $\chi^2$ /NDF: 1106.2/7

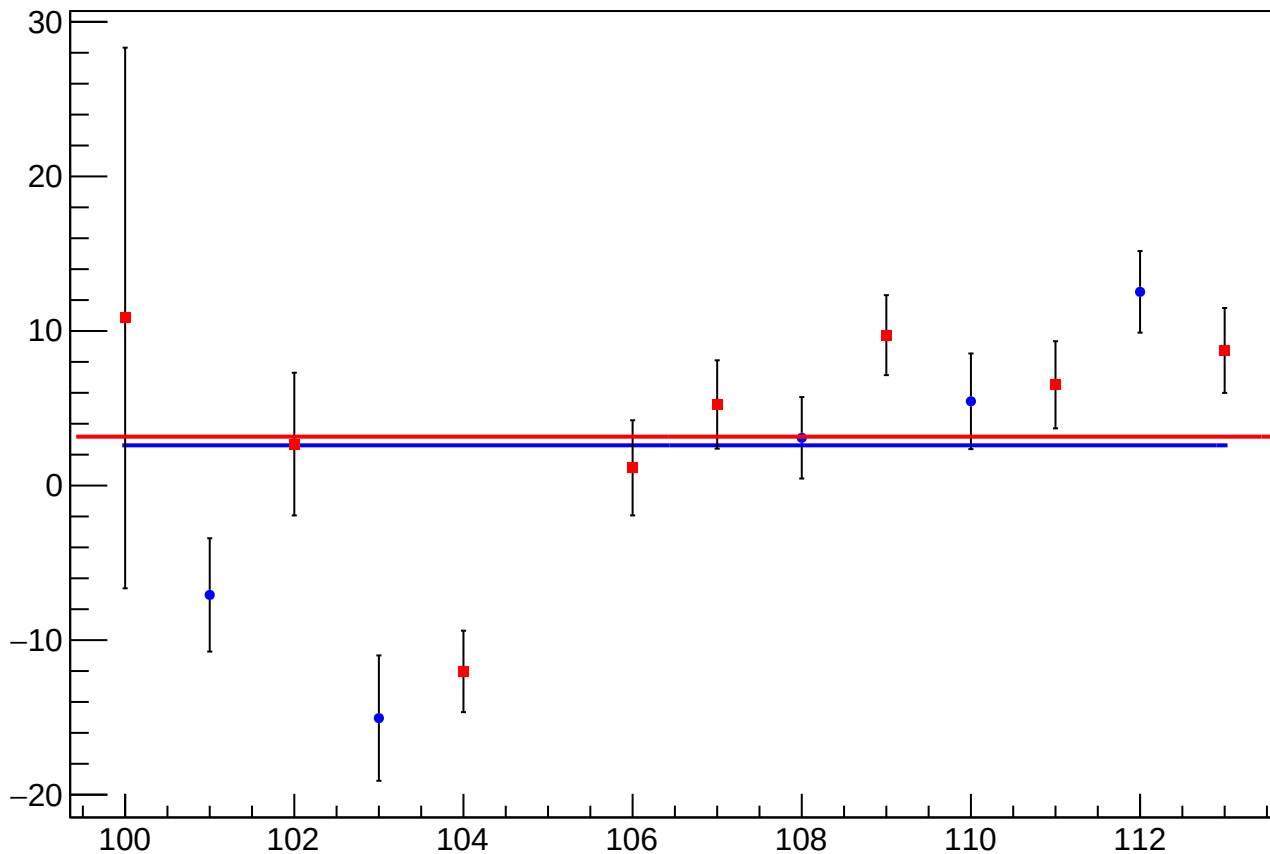
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -29.451 $\pm$ 0.672  $\chi^2$ /NDF: 2200.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 2.602 $\pm$ 1.377  $\chi^2$ /NDF: 40.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.163 $\pm$ 1.098  $\chi^2$ /NDF: 46.4/7

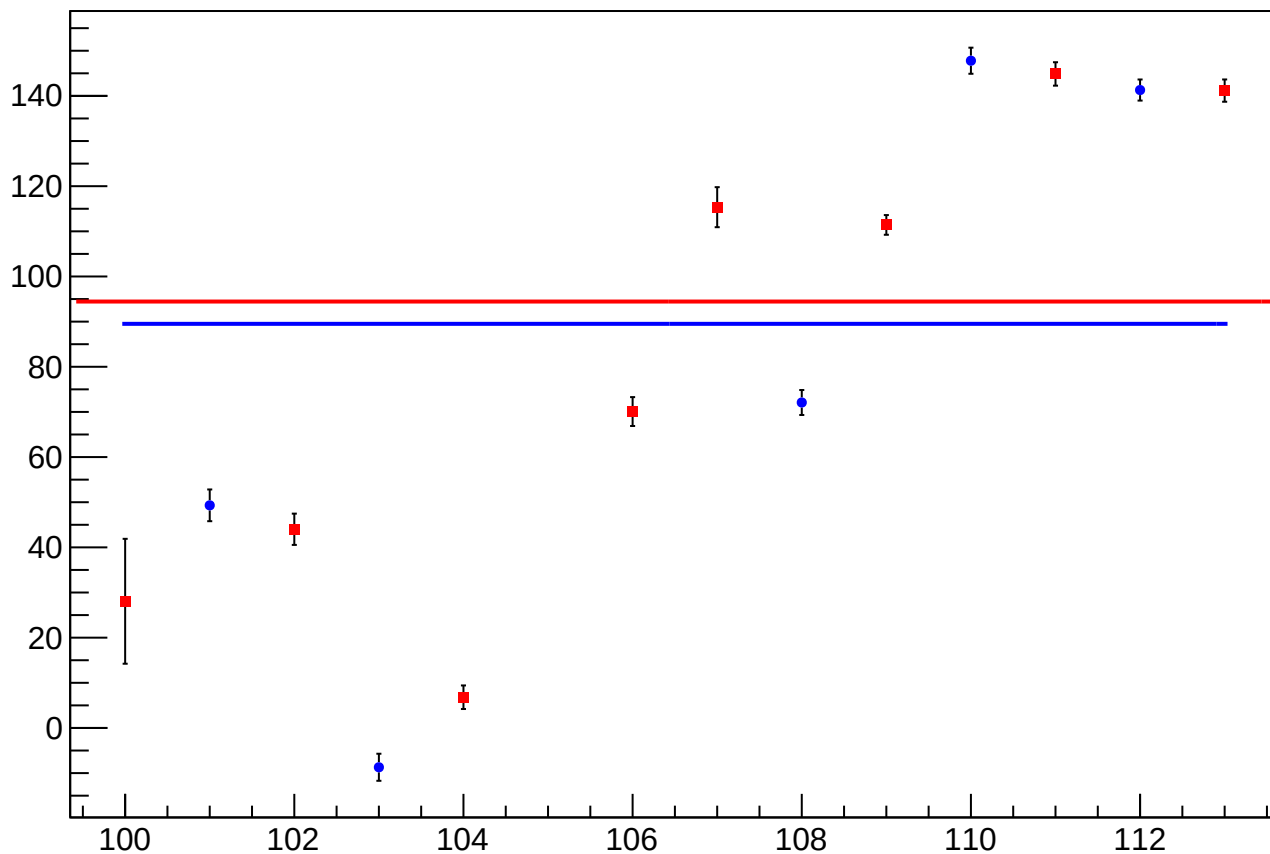
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.945 $\pm$ 0.858  $\chi^2$ /NDF: 87.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 89.511+/-1.264  $\chi^2/\text{NDF}$ : 2142.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.449+/-1.050  $\chi^2/\text{NDF}$ : 2239.5/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

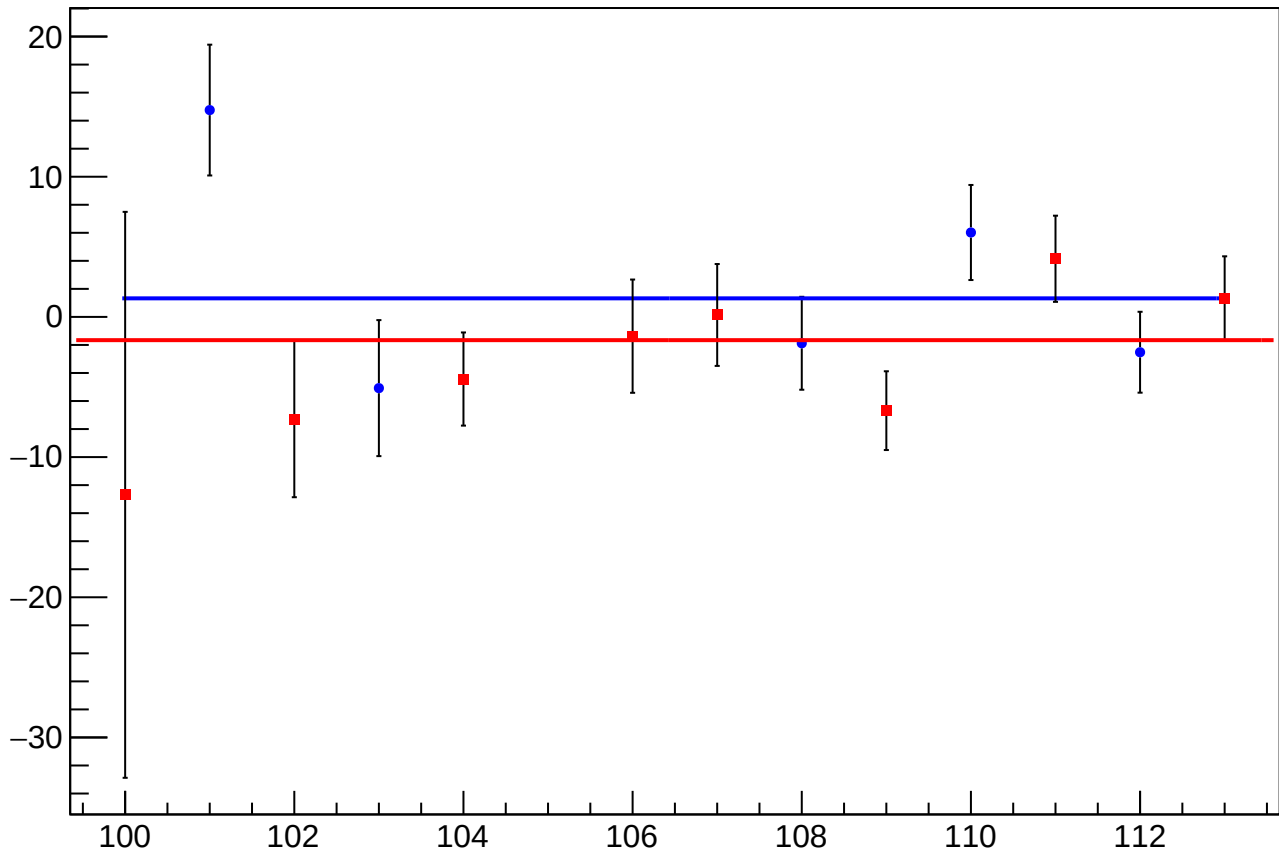
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 92.433+/-0.808  $\chi^2/\text{NDF}$ : 4391.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 1.324 $\pm$ 1.608  $\chi^2$ /NDF: 14.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.658 $\pm$ 1.285  $\chi^2$ /NDF: 10.0/7

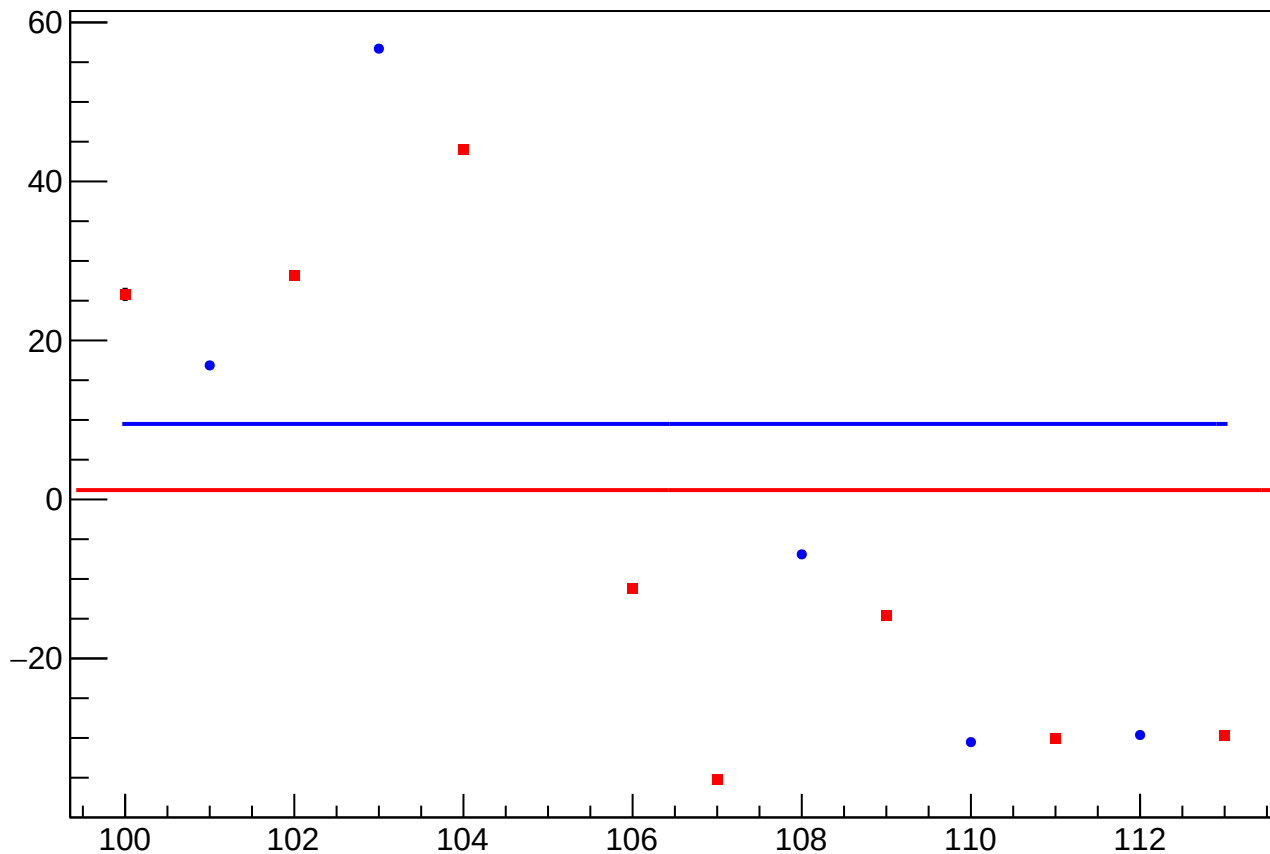
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.496 $\pm$ 1.004  $\chi^2$ /NDF: 26.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 9.500 $\pm$ 0.069  $\chi^2$ /NDF: 236643.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.178 $\pm$ 0.060  $\chi^2$ /NDF: 256998.9/7

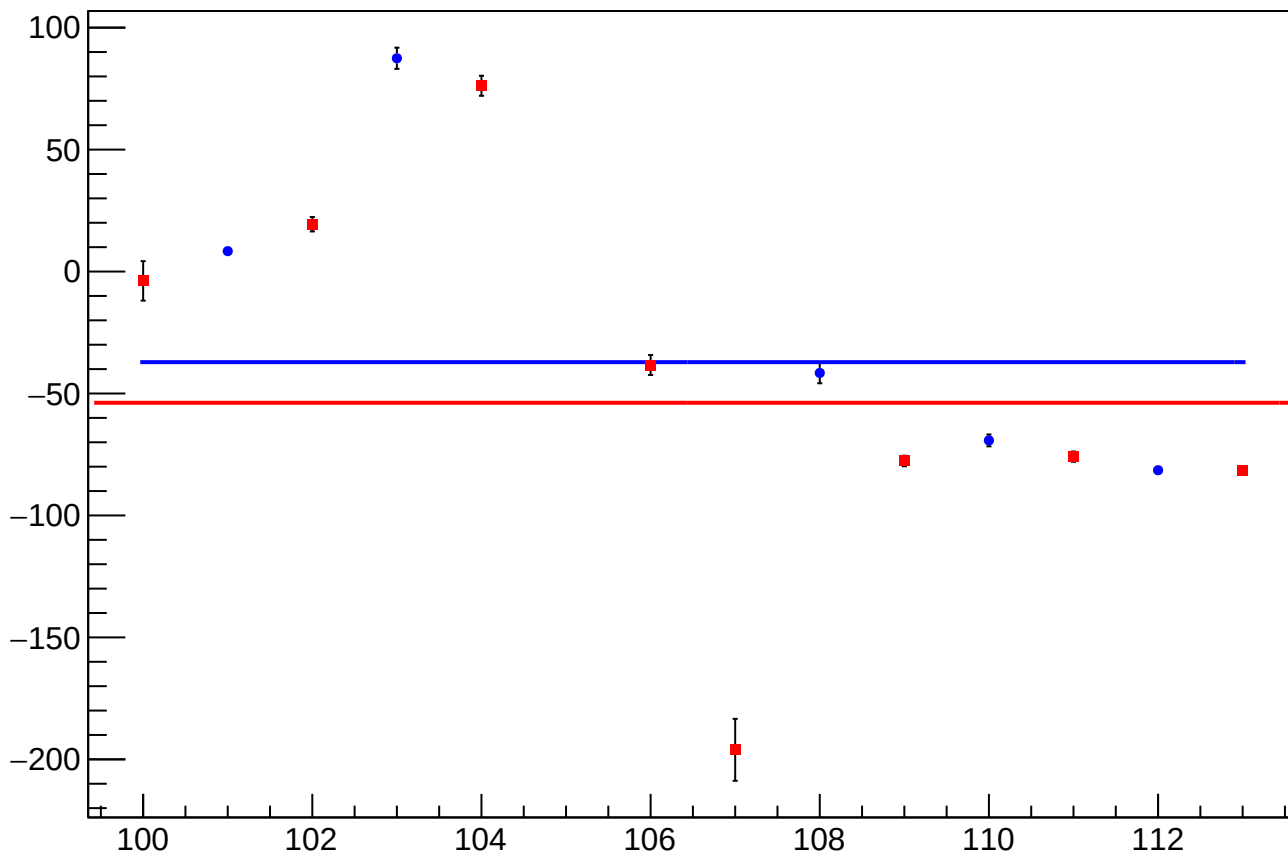
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.790 $\pm$ 0.045  $\chi^2$ /NDF: 501950.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl1\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-37.149 \pm 1.117$   $\chi^2/\text{NDF}$ : 2053.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-53.796 \pm 1.033$   $\chi^2/\text{NDF}$ : 2210.7/7

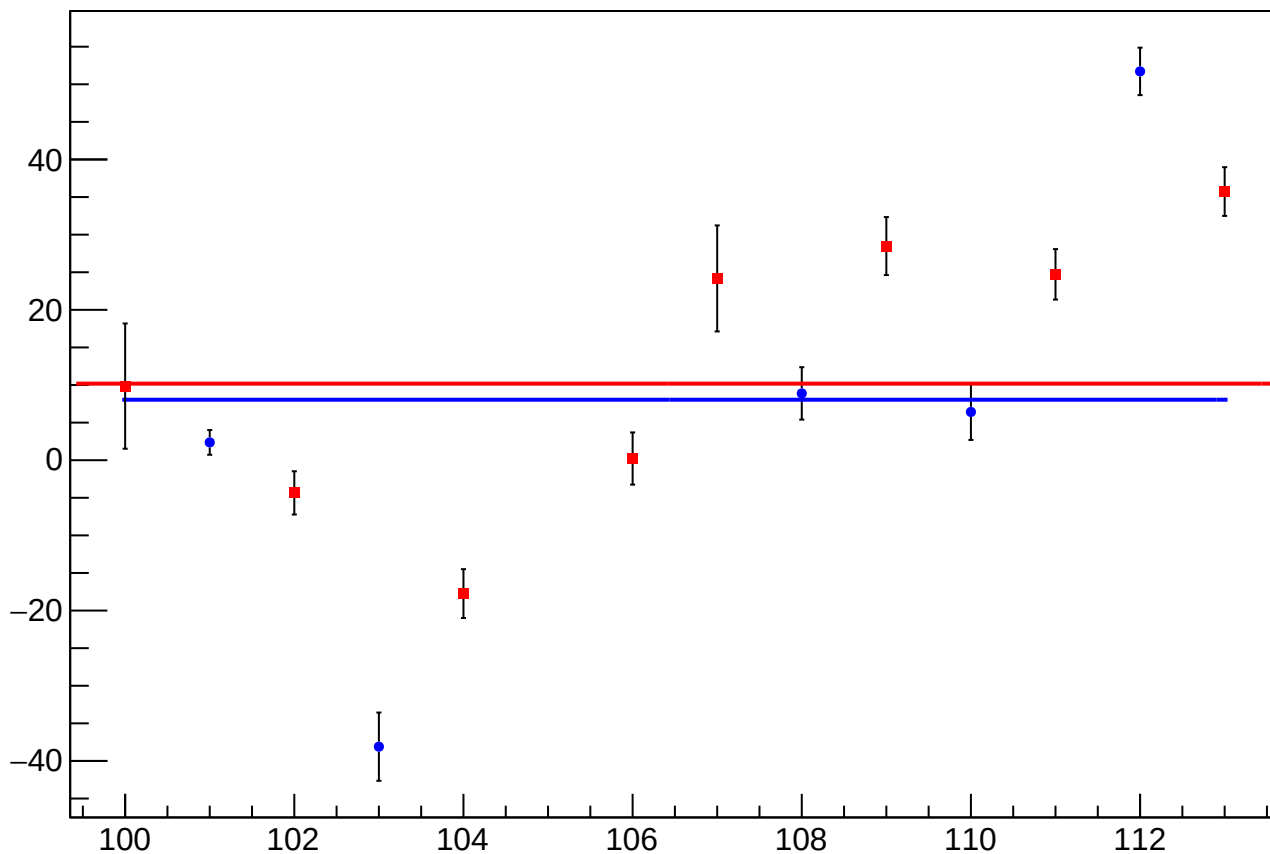
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-46.119 \pm 0.758$   $\chi^2/\text{NDF}$ : 4383.7/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl1\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 8.046 $\pm$ 1.219  $\chi^2$ /NDF: 307.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.182 $\pm$ 1.309  $\chi^2$ /NDF: 214.9/7

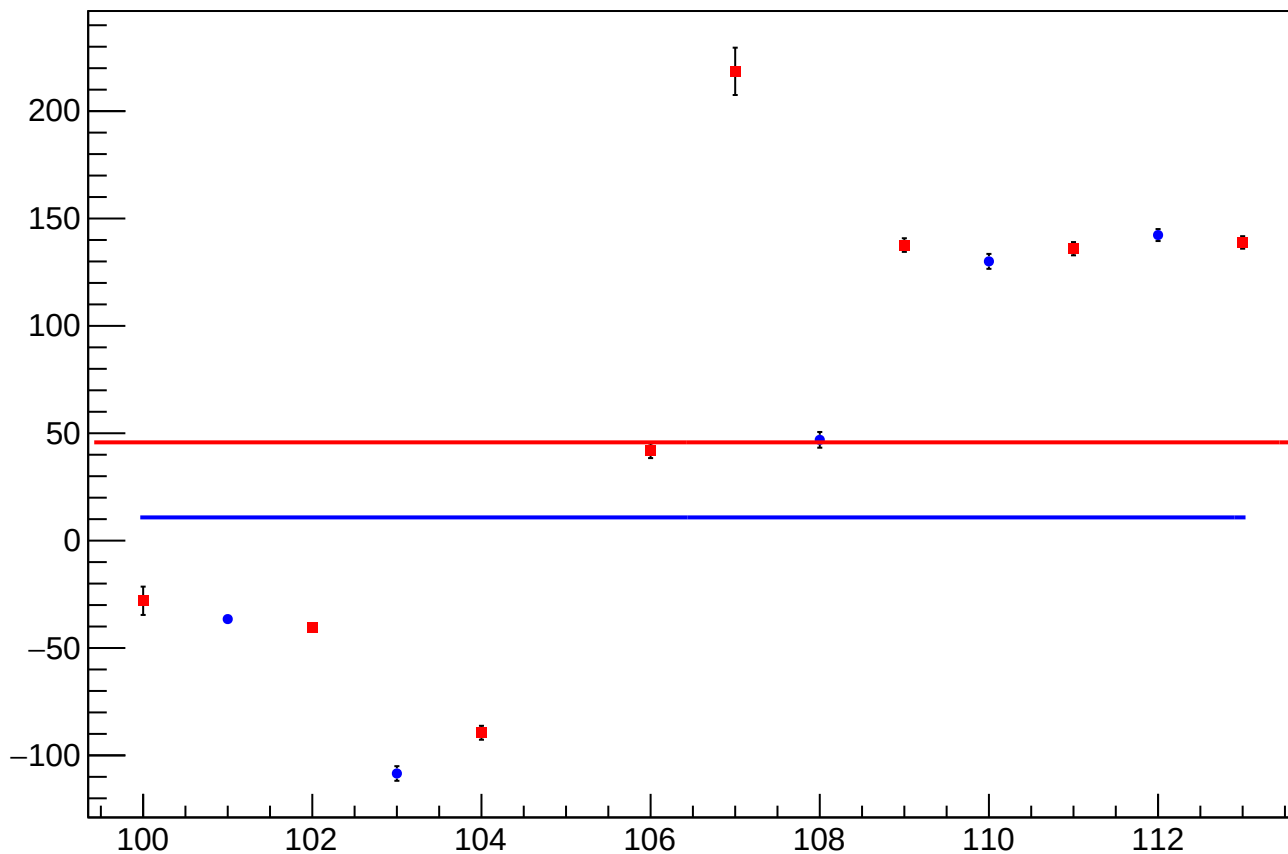
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.038 $\pm$ 0.892  $\chi^2$ /NDF: 523.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 10.815+/-1.135  $\chi^2/\text{NDF}$ : 5626.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 45.764+/-1.178  $\chi^2/\text{NDF}$ : 6207.2/7

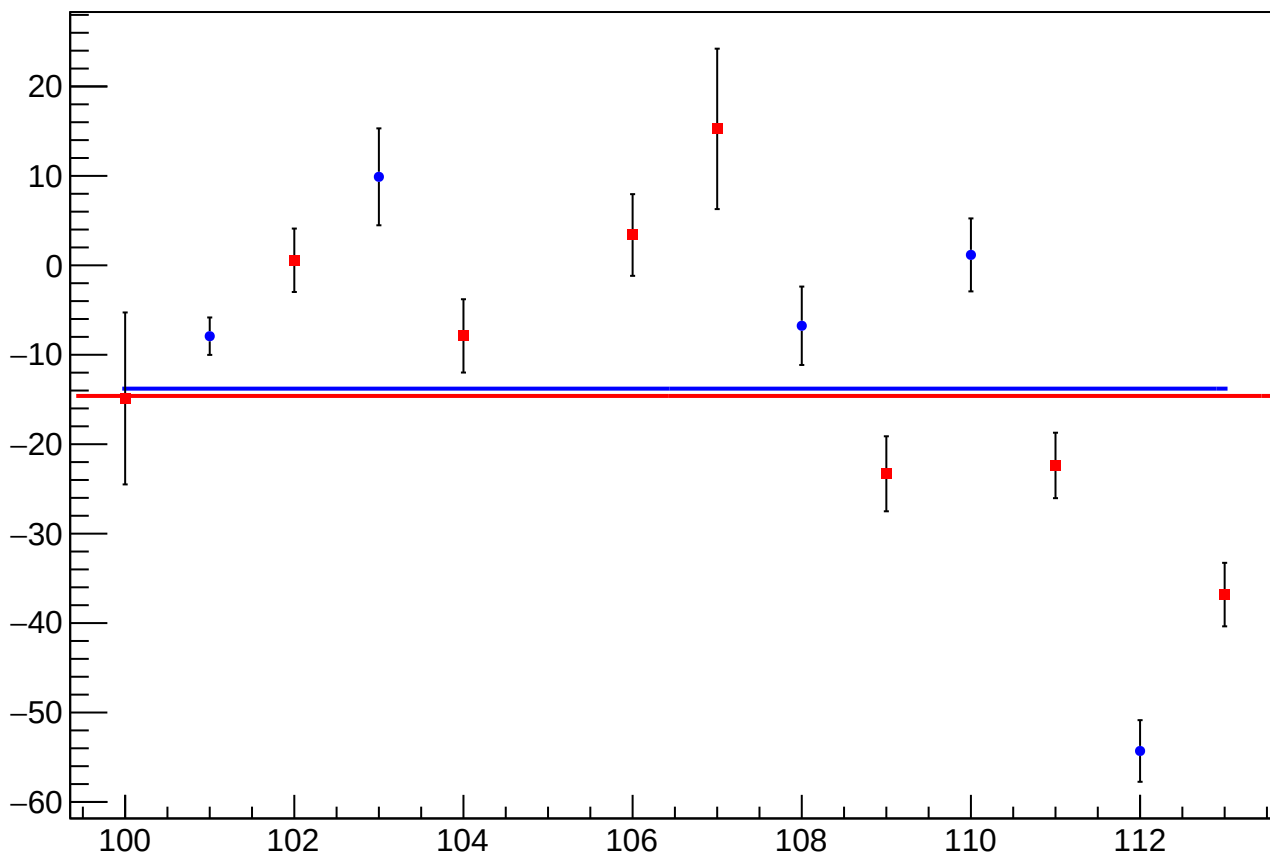
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.627+/-0.817  $\chi^2/\text{NDF}$ : 12289.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl1\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -13.787 $\pm$ 1.476  $\chi^2$ /NDF: 181.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -14.604 $\pm$ 1.541  $\chi^2$ /NDF: 95.6/7

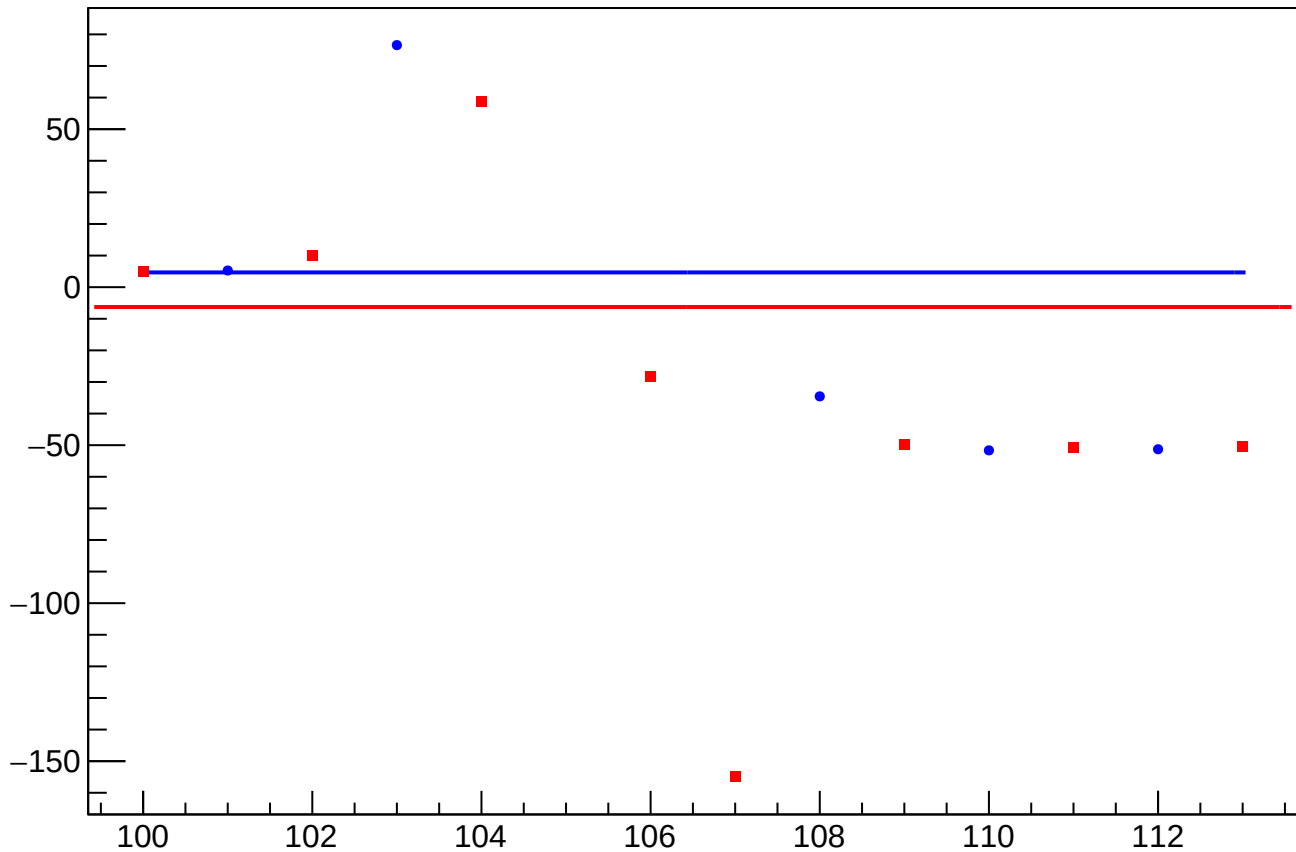
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.178 $\pm$ 1.066  $\chi^2$ /NDF: 276.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl1\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 4.667 $\pm$ 0.064  $\chi^2$ /NDF: 427572.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -6.278 $\pm$ 0.064  $\chi^2$ /NDF: 441823.8/7

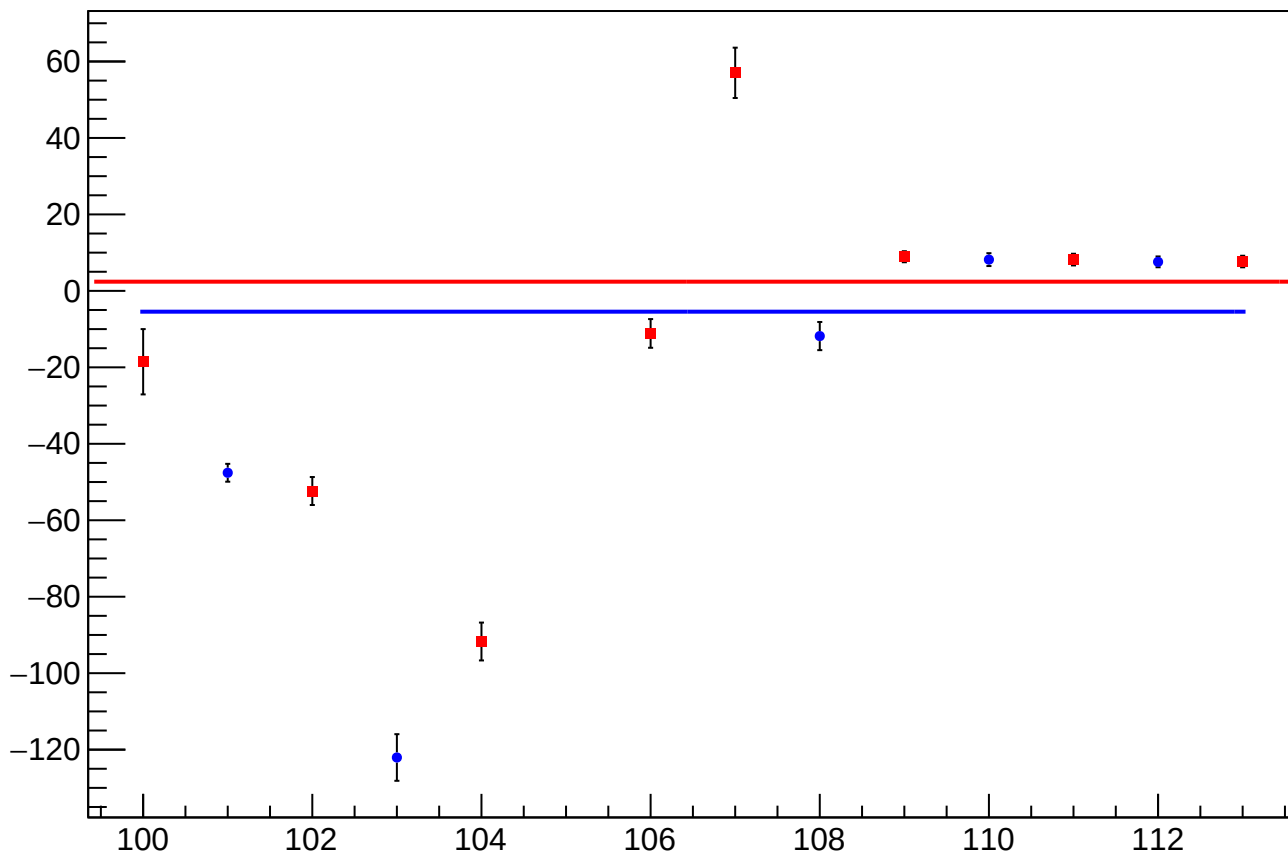
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.876 $\pm$ 0.045  $\chi^2$ /NDF: 884057.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usl\_atl1\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -5.442+/-0.937  $\chi^2/\text{NDF}$ : 845.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.405+/-0.798  $\chi^2/\text{NDF}$ : 720.1/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

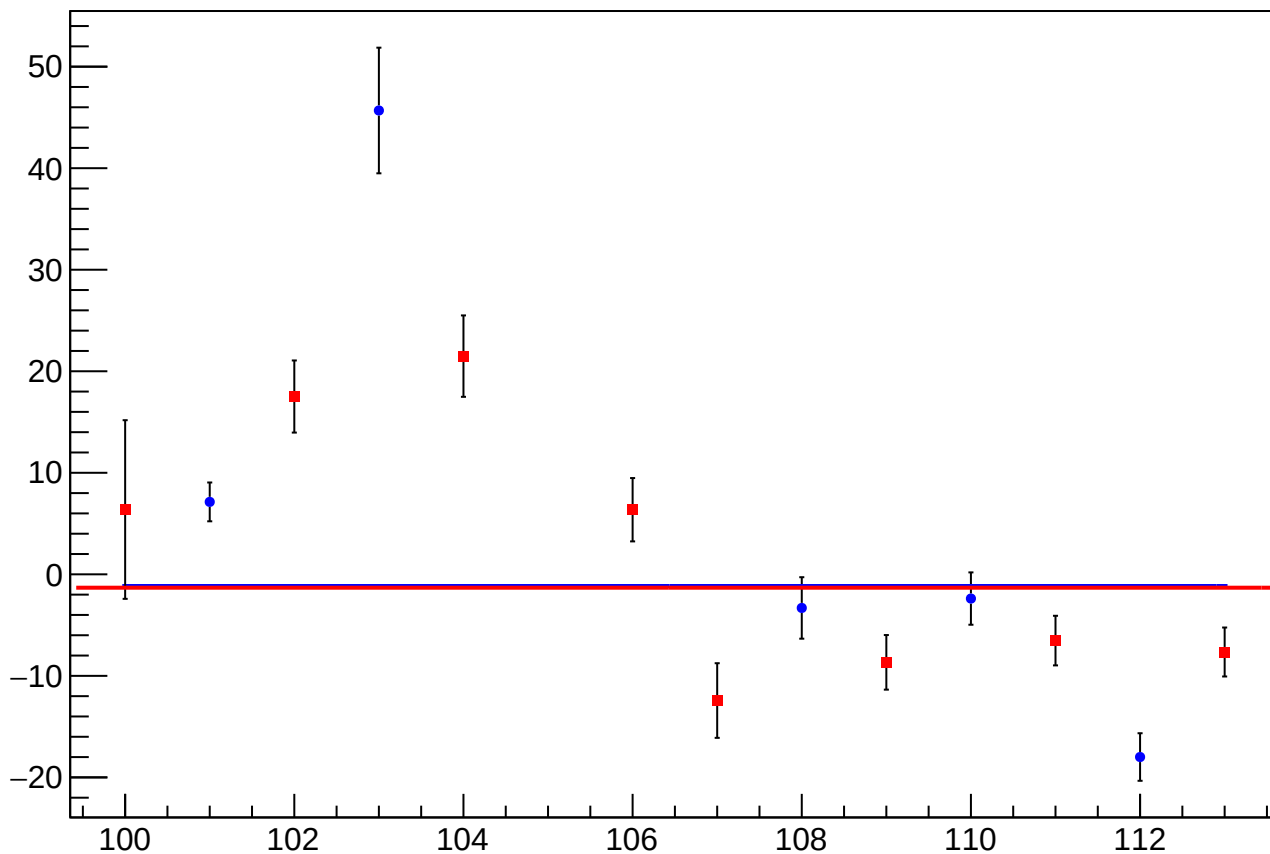
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.893+/-0.608  $\chi^2/\text{NDF}$ : 1605.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_usl\_atl1\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -1.151+/-1.161  $\chi^2/\text{NDF}$ : 128.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.318+/-1.112  $\chi^2/\text{NDF}$ : 95.4/7

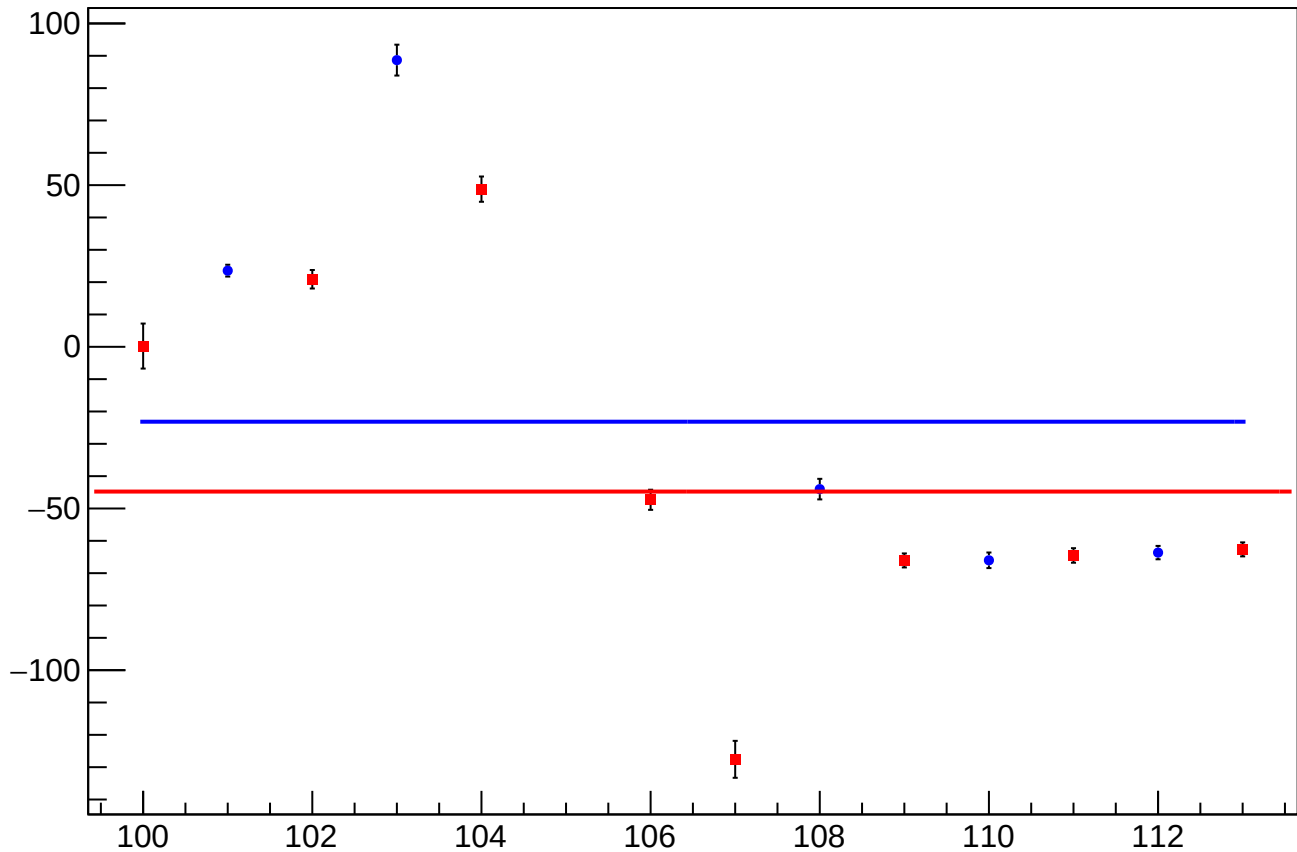
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.238+/-0.803  $\chi^2/\text{NDF}$ : 223.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -23.159±1.086  $\chi^2/\text{NDF}$ : 1943.8/4

Left Out: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -44.764±1.017  $\chi^2/\text{NDF}$ : 1593.8/7

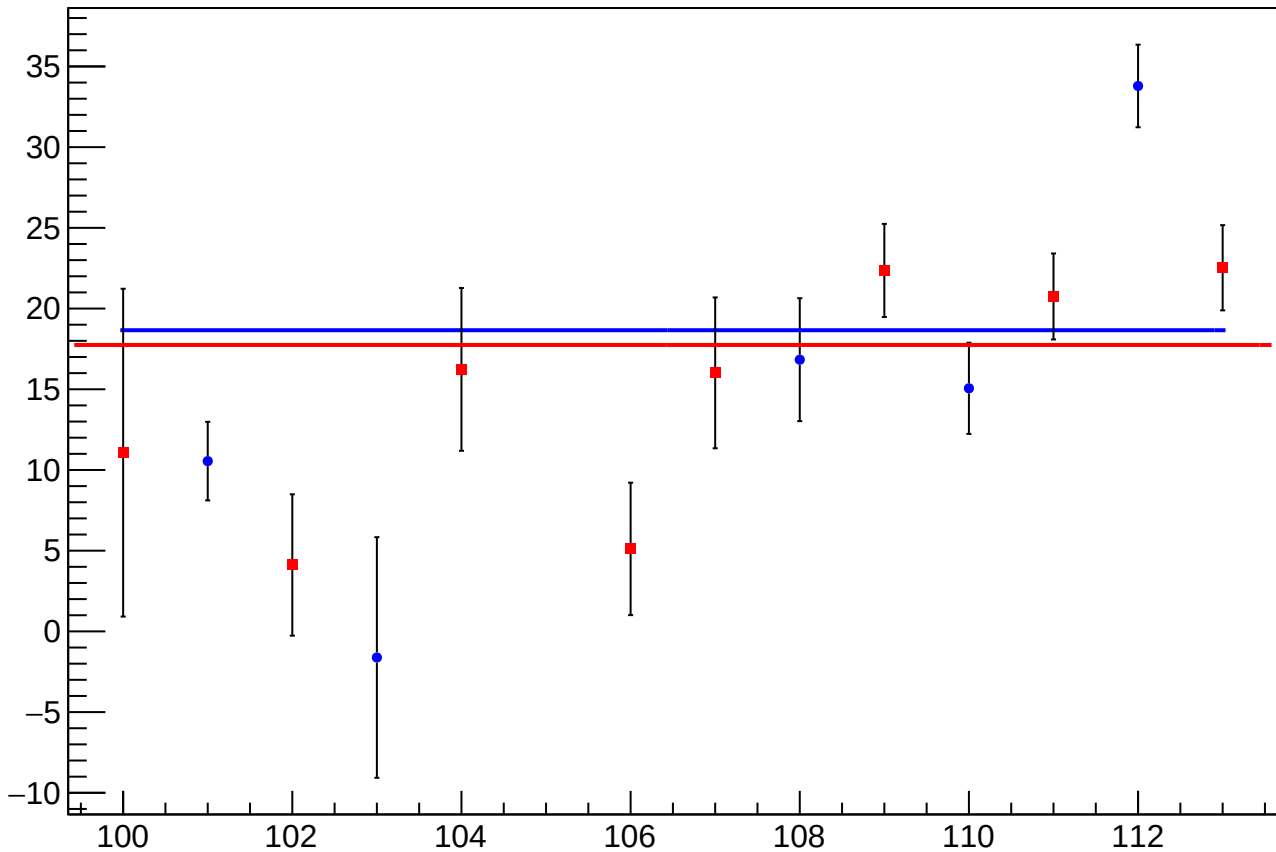
Left In: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -34.668±0.742  $\chi^2/\text{NDF}$ : 3748.4/12

- sign 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 18.658 $\pm$ 1.368  $\chi^2$ /NDF: 55.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.744 $\pm$ 1.279  $\chi^2$ /NDF: 27.0/7

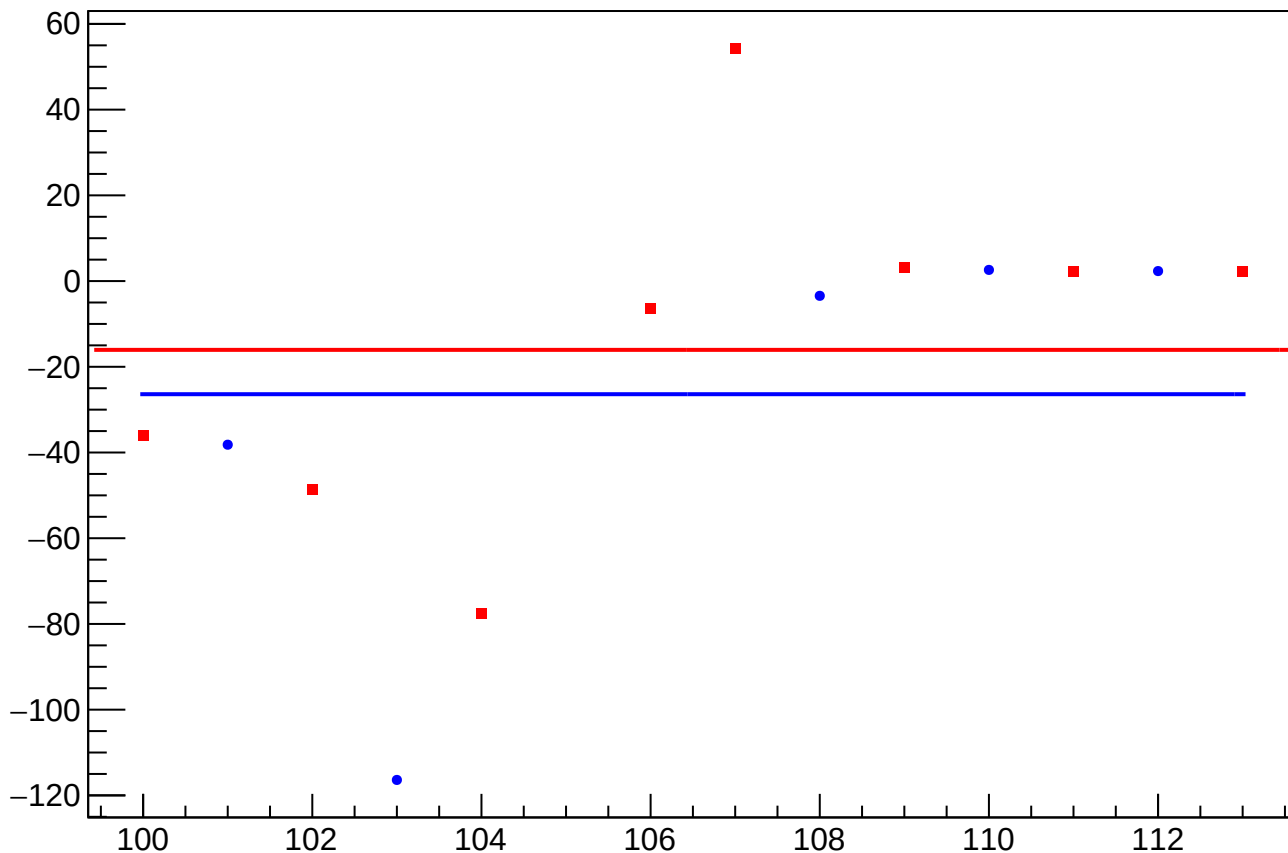
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.171 $\pm$ 0.934  $\chi^2$ /NDF: 82.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl1\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -26.396 $\pm$ 0.066  $\chi^2$ /NDF: 292614.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -16.051 $\pm$ 0.061  $\chi^2$ /NDF: 306335.0/7

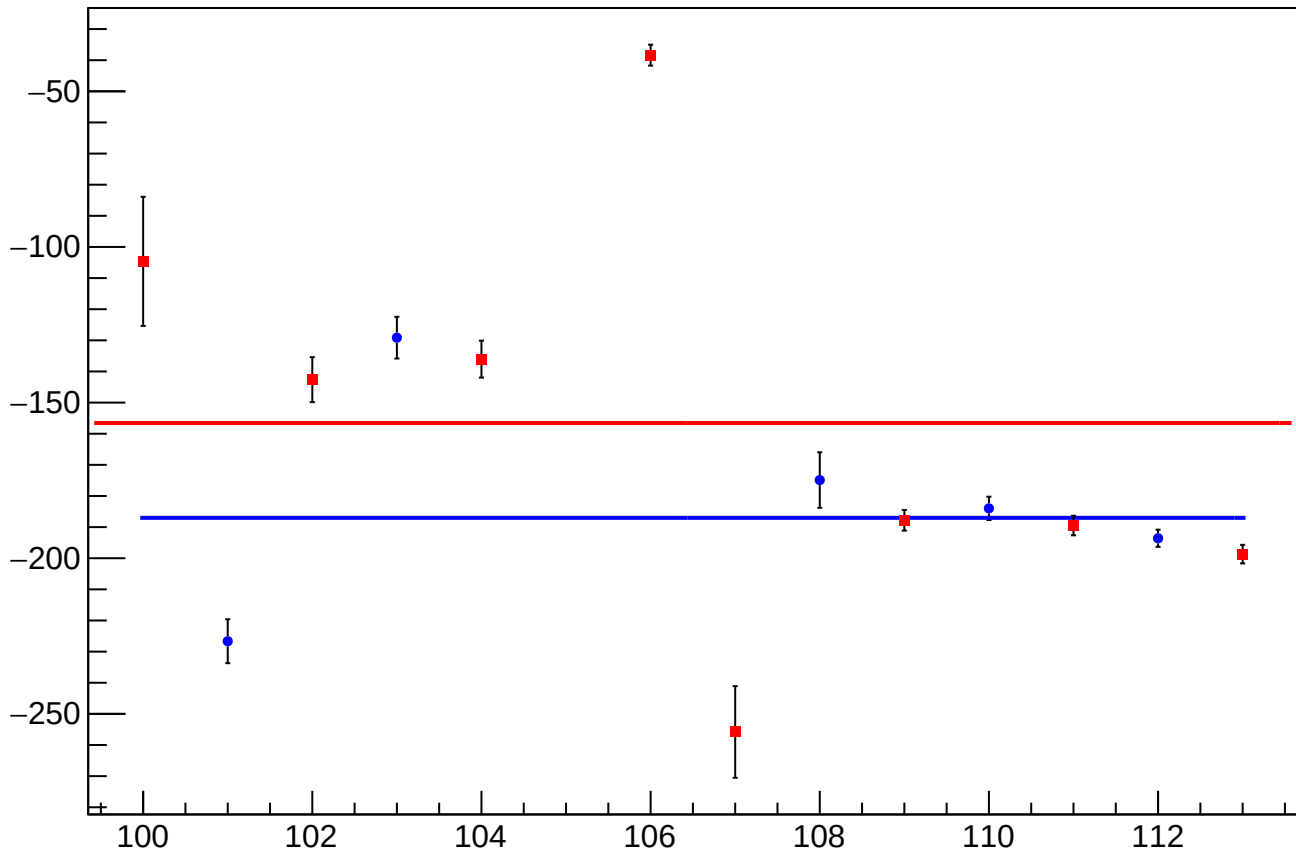
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -20.797 $\pm$ 0.045  $\chi^2$ /NDF: 612349.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -187.019+/-1.969  $\chi^2/\text{NDF}$ : 114.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -156.547+/-1.493  $\chi^2/\text{NDF}$ : 1701.2/7

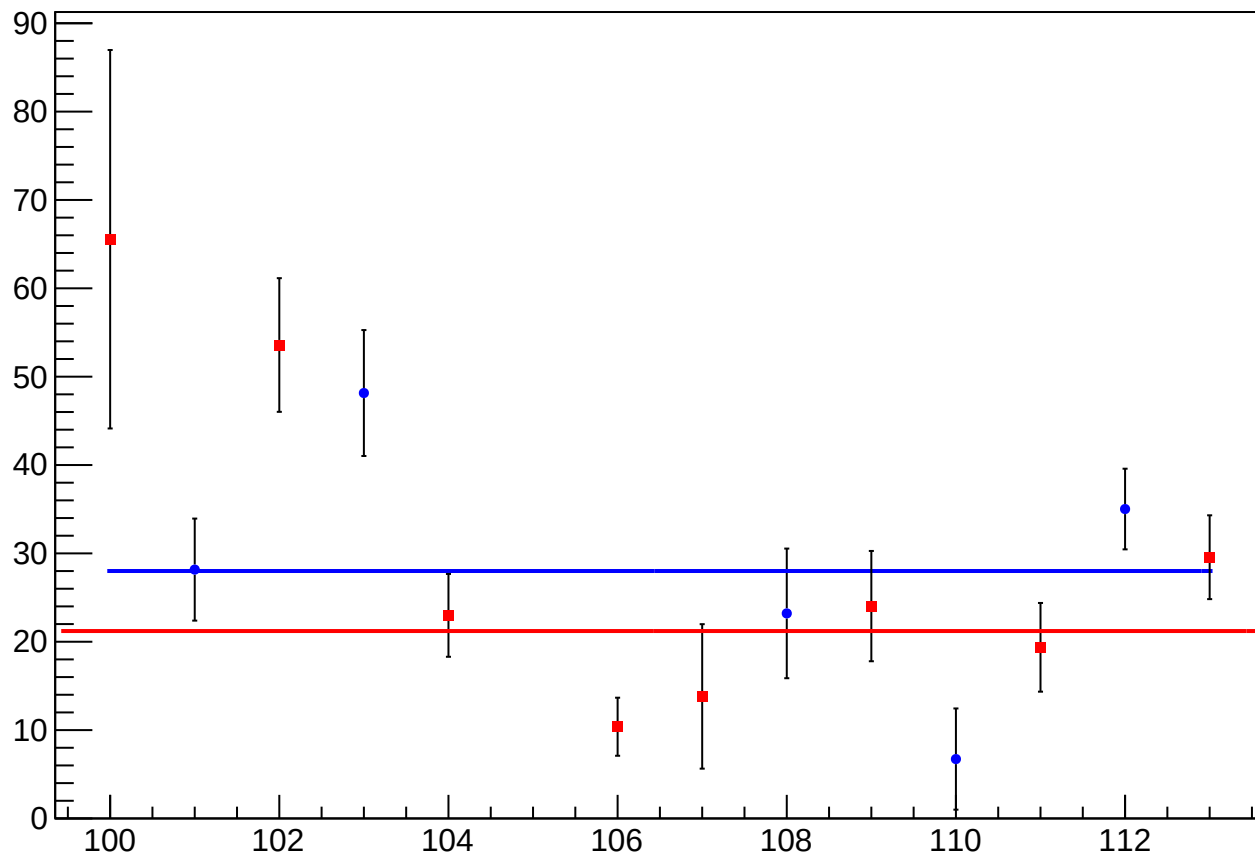
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -167.673+/-1.190  $\chi^2/\text{NDF}$ : 1967.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 28.006 $\pm$ 2.610  $\chi^2$ /NDF: 24.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.212 $\pm$ 1.881  $\chi^2$ /NDF: 37.9/7

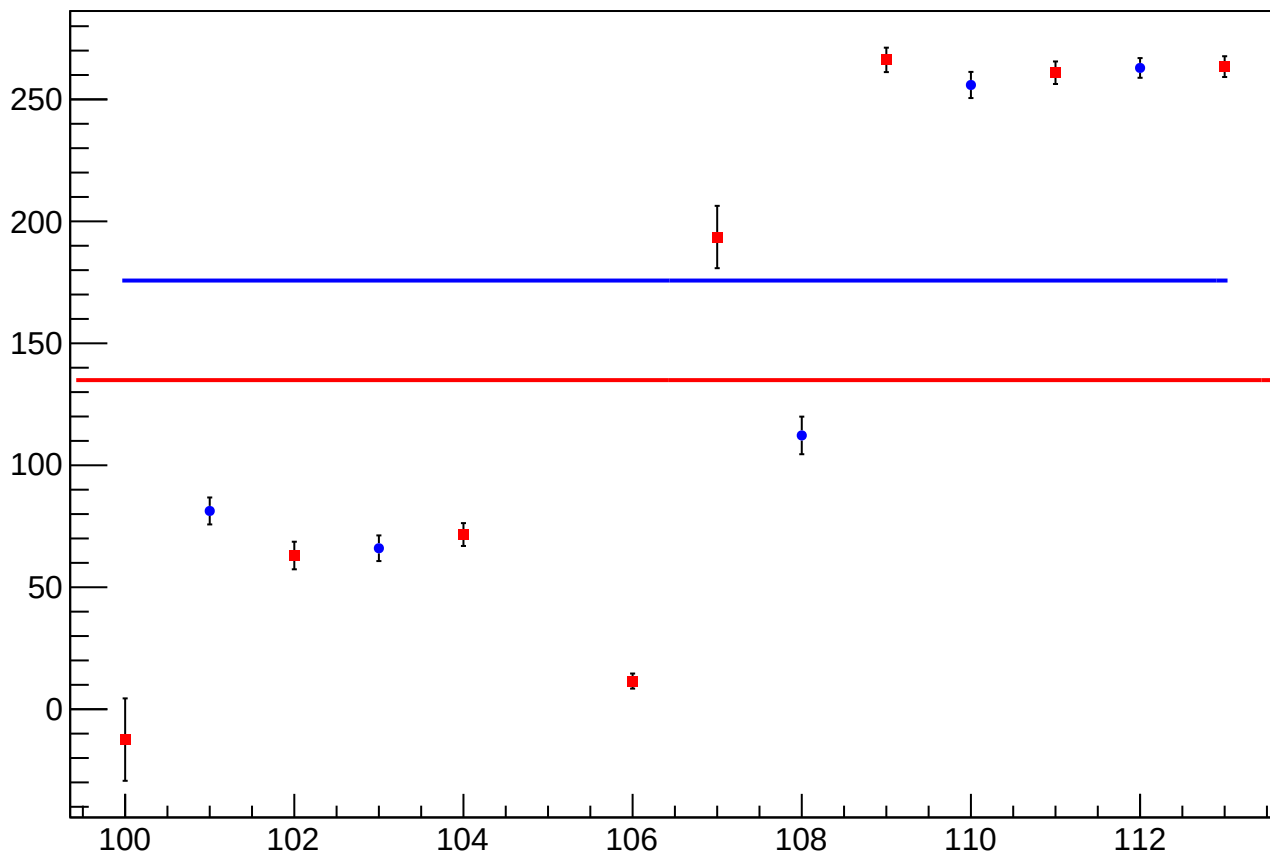
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.534 $\pm$ 1.526  $\chi^2$ /NDF: 66.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 175.738 $\pm$ 2.345  $\chi^2$ /NDF: 1485.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 134.916 $\pm$ 1.732  $\chi^2$ /NDF: 4379.8/7

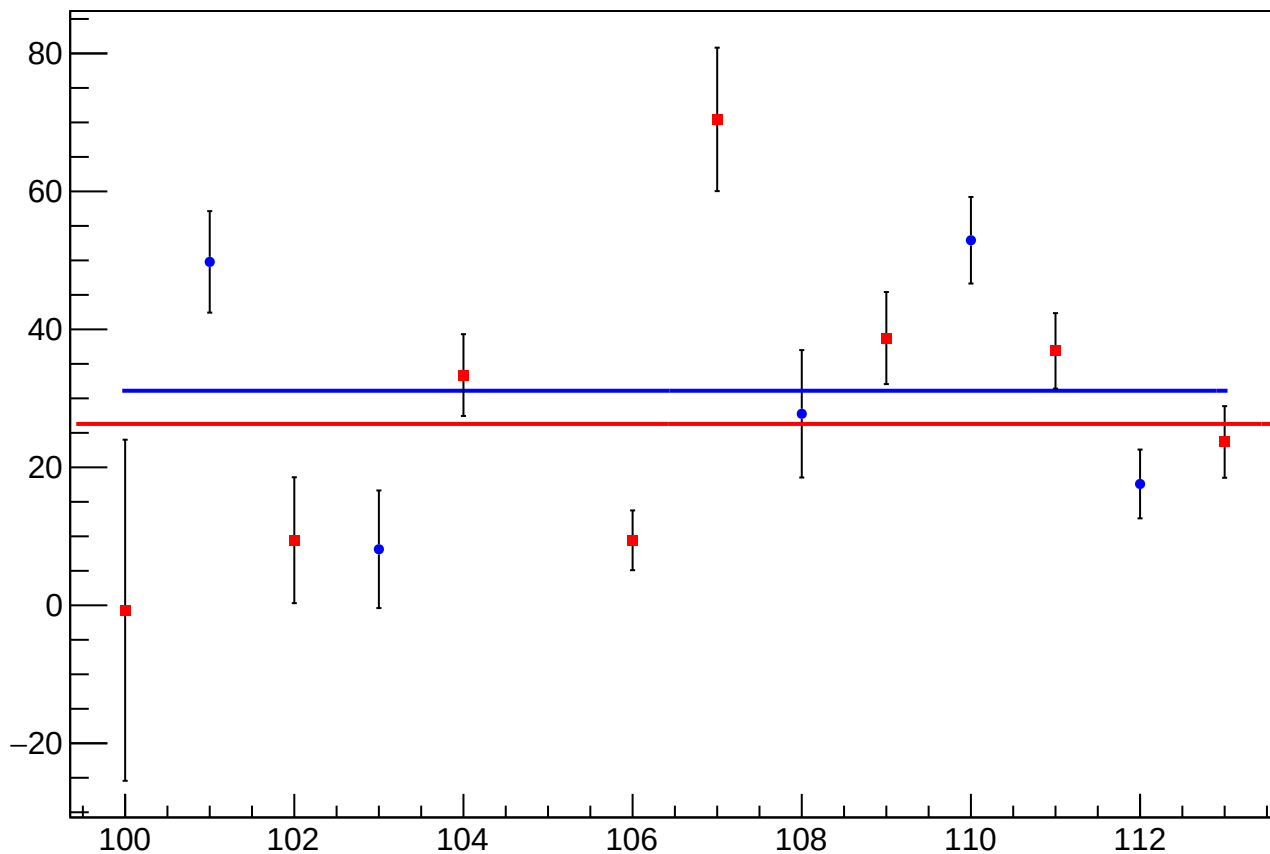
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 149.331 $\pm$ 1.393  $\chi^2$ /NDF: 6061.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 31.105 $\pm$ 3.021  $\chi^2$ /NDF: 33.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.295 $\pm$ 2.250  $\chi^2$ /NDF: 46.7/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

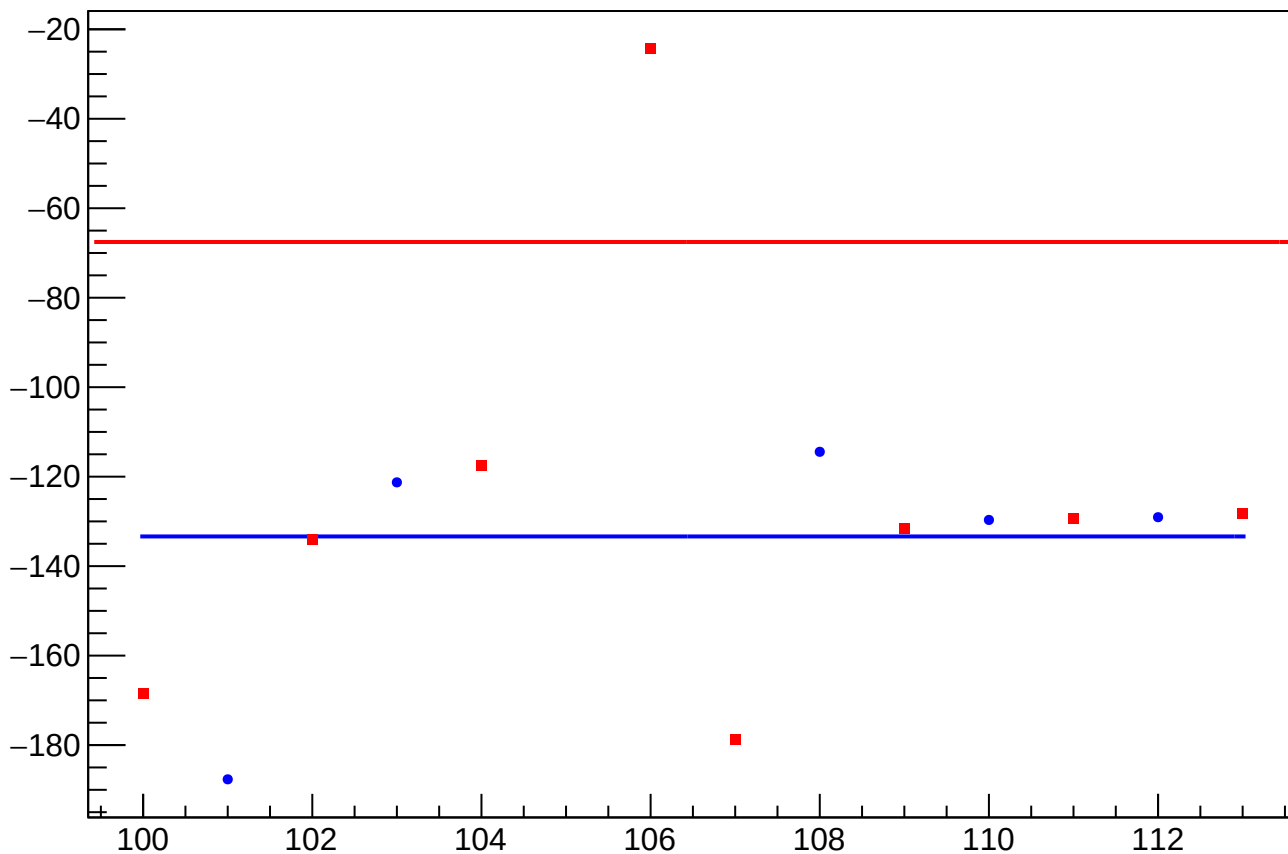
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28.011 $\pm$ 1.804  $\chi^2$ /NDF: 81.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_usl\_atl2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -133.363+/-0.135  $\chi^2/\text{NDF}$ : 33900.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -67.543+/-0.079  $\chi^2/\text{NDF}$ : 456937.9/7

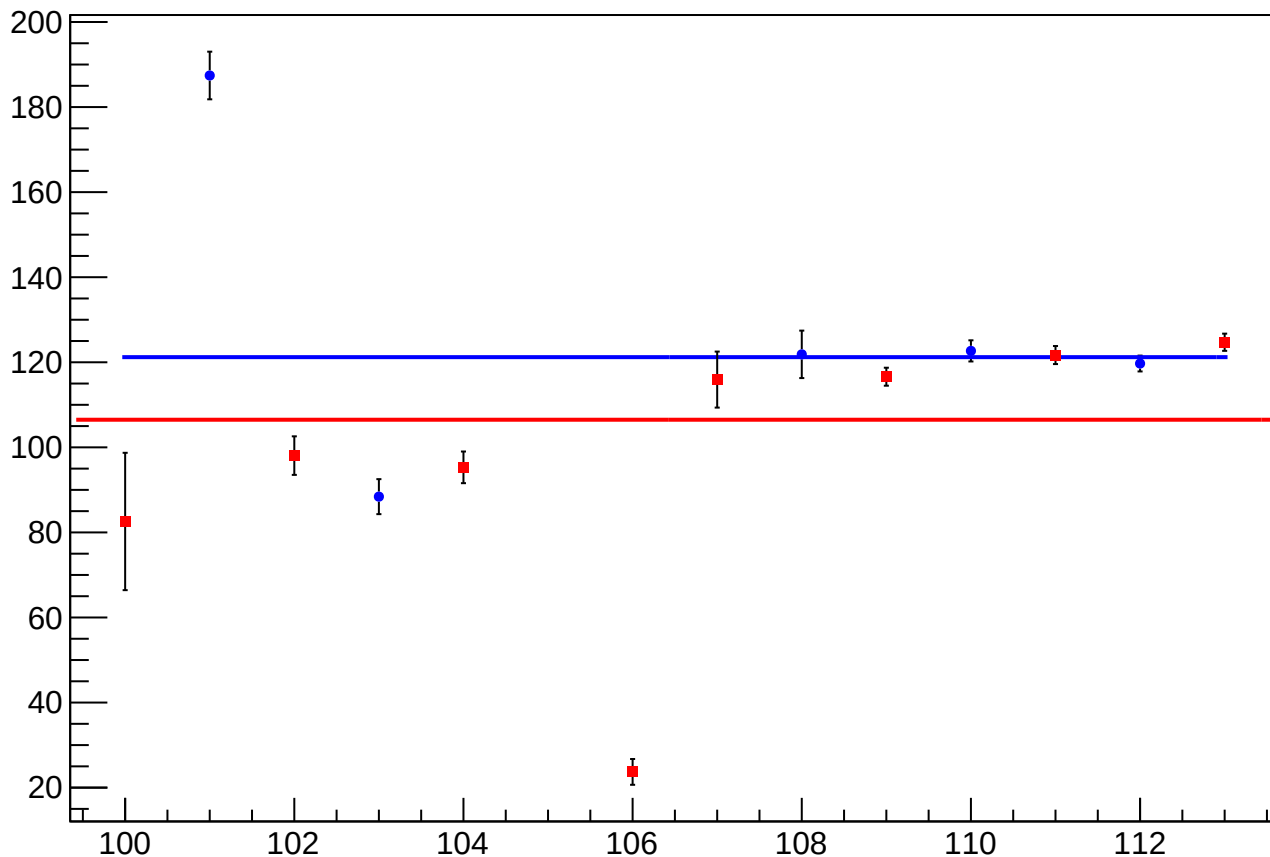
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -84.189+/-0.068  $\chi^2/\text{NDF}$ : 668000.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 121.207 $\pm$ 1.321  $\chi^2$ /NDF: 204.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 106.492 $\pm$ 1.028  $\chi^2$ /NDF: 917.6/7

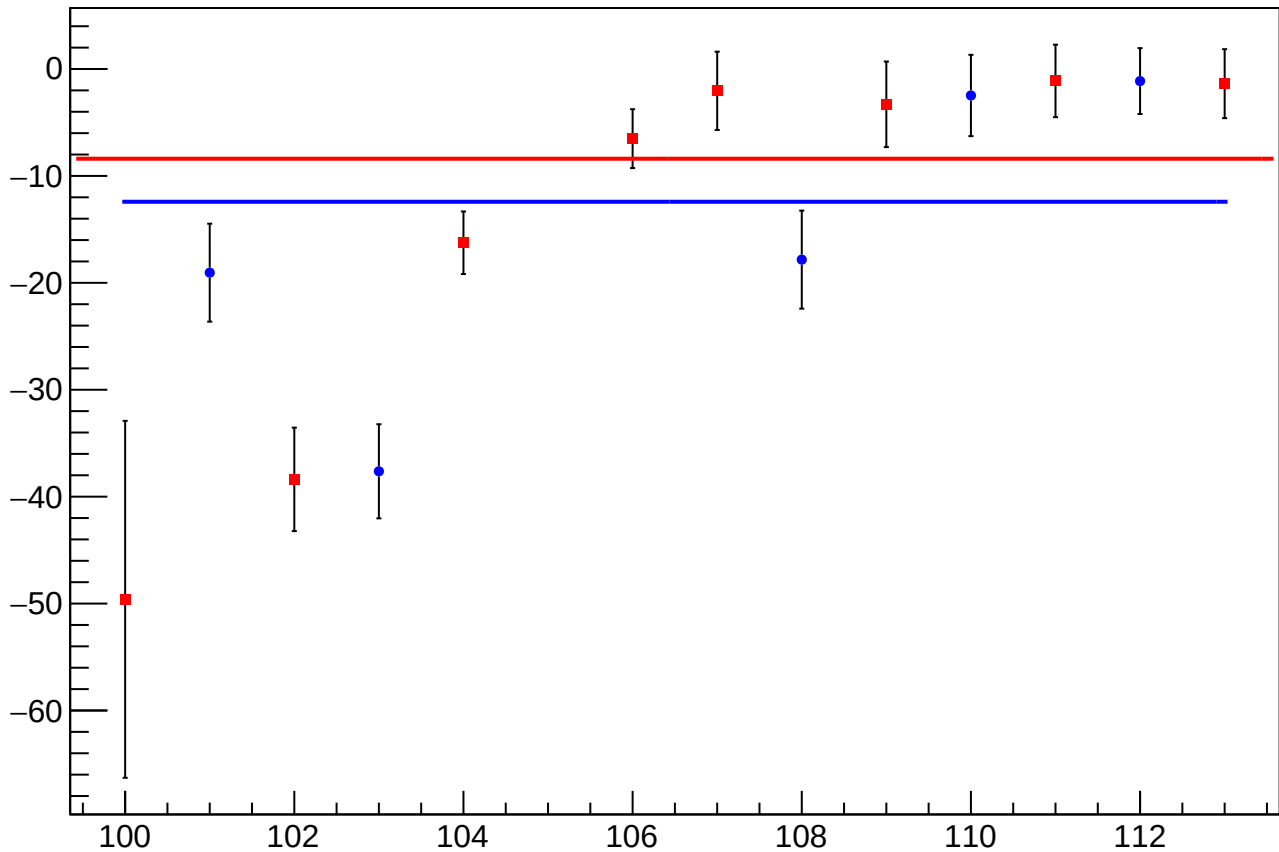
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 112.040 $\pm$ 0.811  $\chi^2$ /NDF: 1199.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -12.415+/-1.764  $\chi^2/\text{NDF}$ : 56.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -8.390+/-1.275  $\chi^2/\text{NDF}$ : 66.1/7

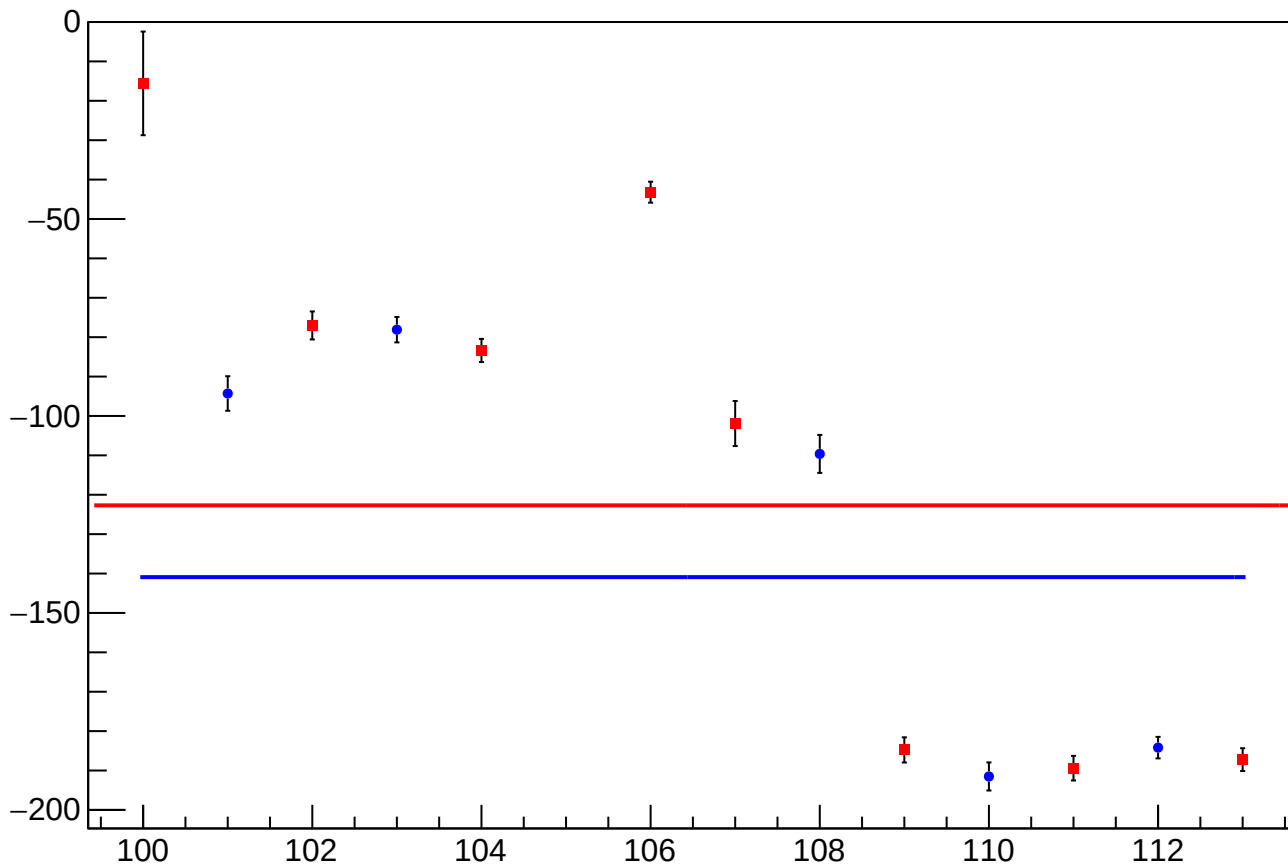
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.771+/-1.034  $\chi^2/\text{NDF}$ : 126.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -140.910+/-1.573  $\chi^2/\text{NDF}$ : 987.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -122.691+/-1.202  $\chi^2/\text{NDF}$ : 2645.5/7

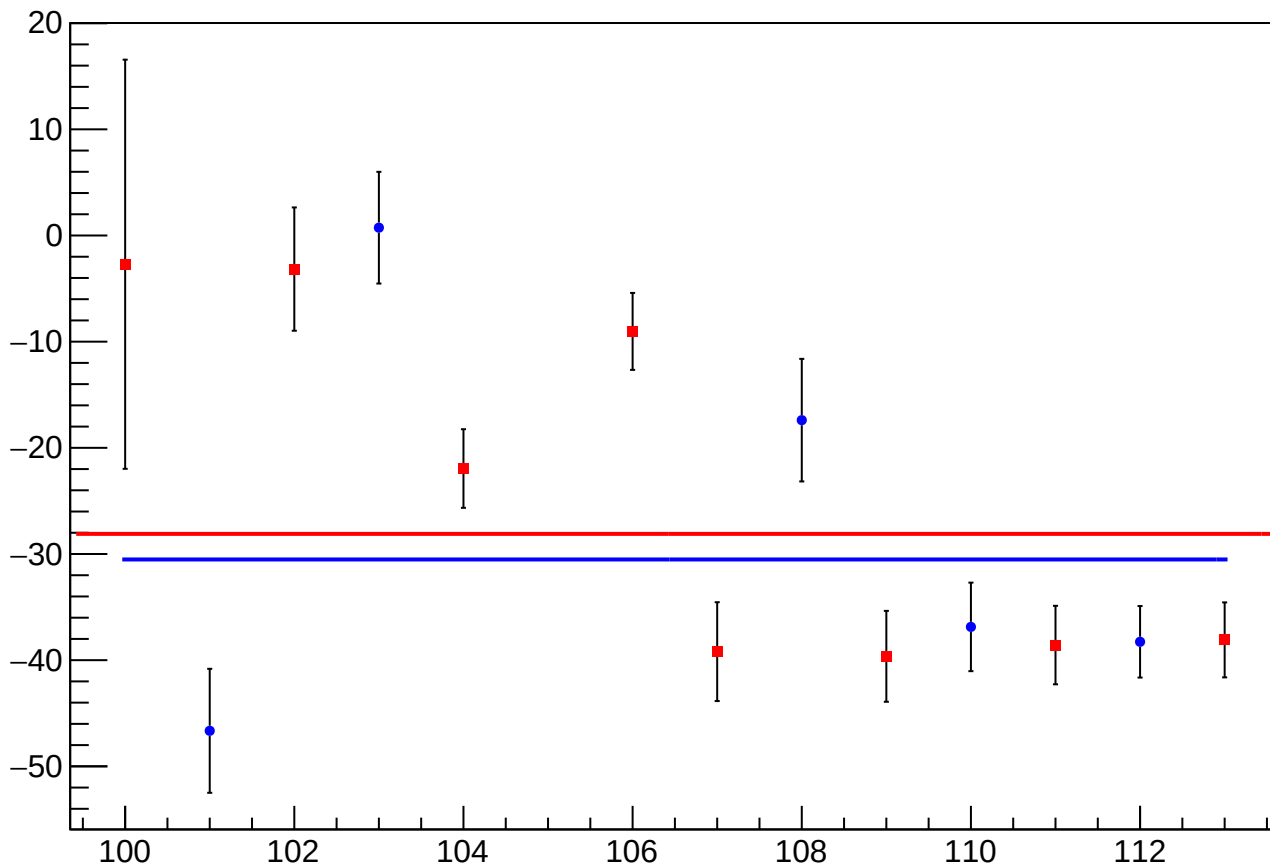
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -129.407+/-0.955  $\chi^2/\text{NDF}$ : 3717.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -30.515 $\pm$ 2.036  $\chi^2$ /NDF: 55.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -28.104 $\pm$ 1.515  $\chi^2$ /NDF: 79.6/7

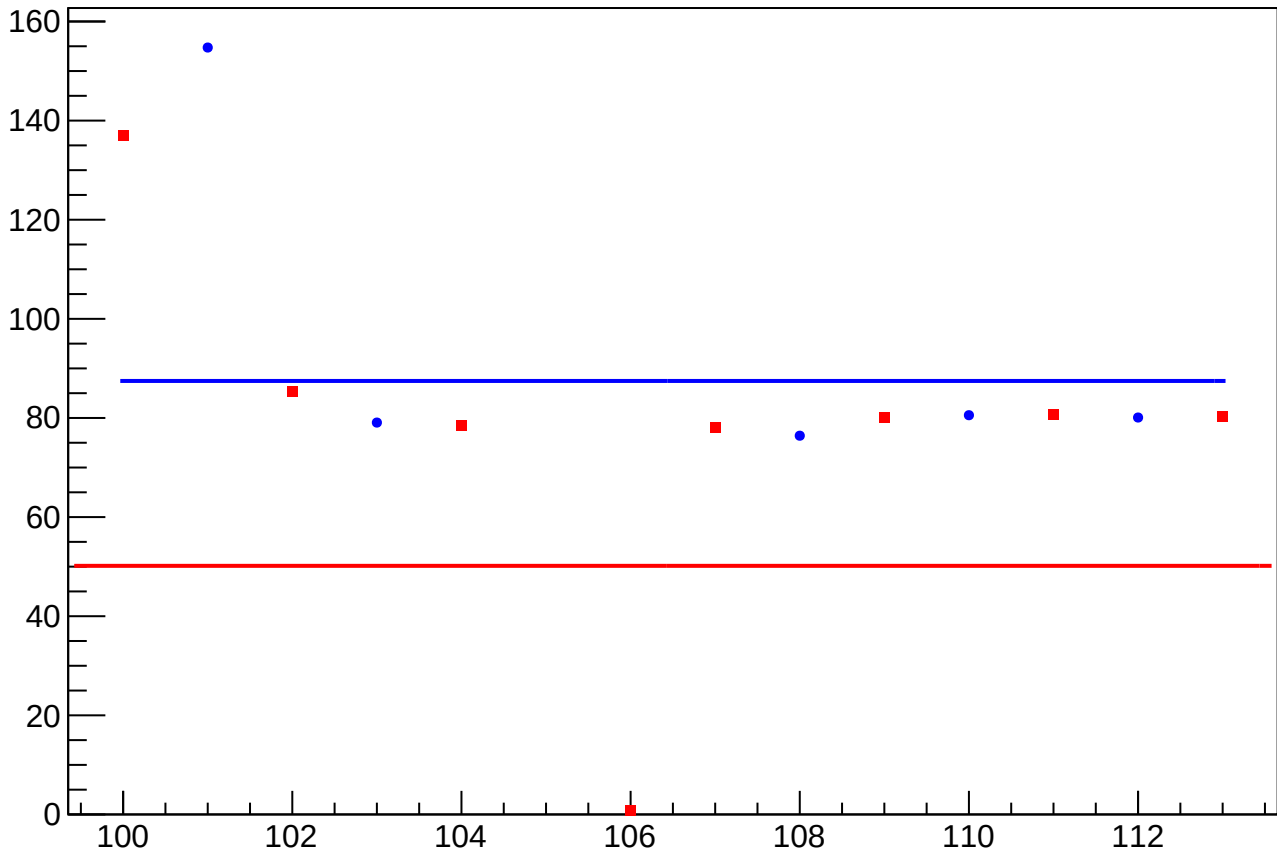
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -28.963 $\pm$ 1.216  $\chi^2$ /NDF: 136.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 87.469+/-0.088  $\chi^2/\text{NDF}$ : 74679.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 50.164+/-0.060  $\chi^2/\text{NDF}$ : 436256.5/7

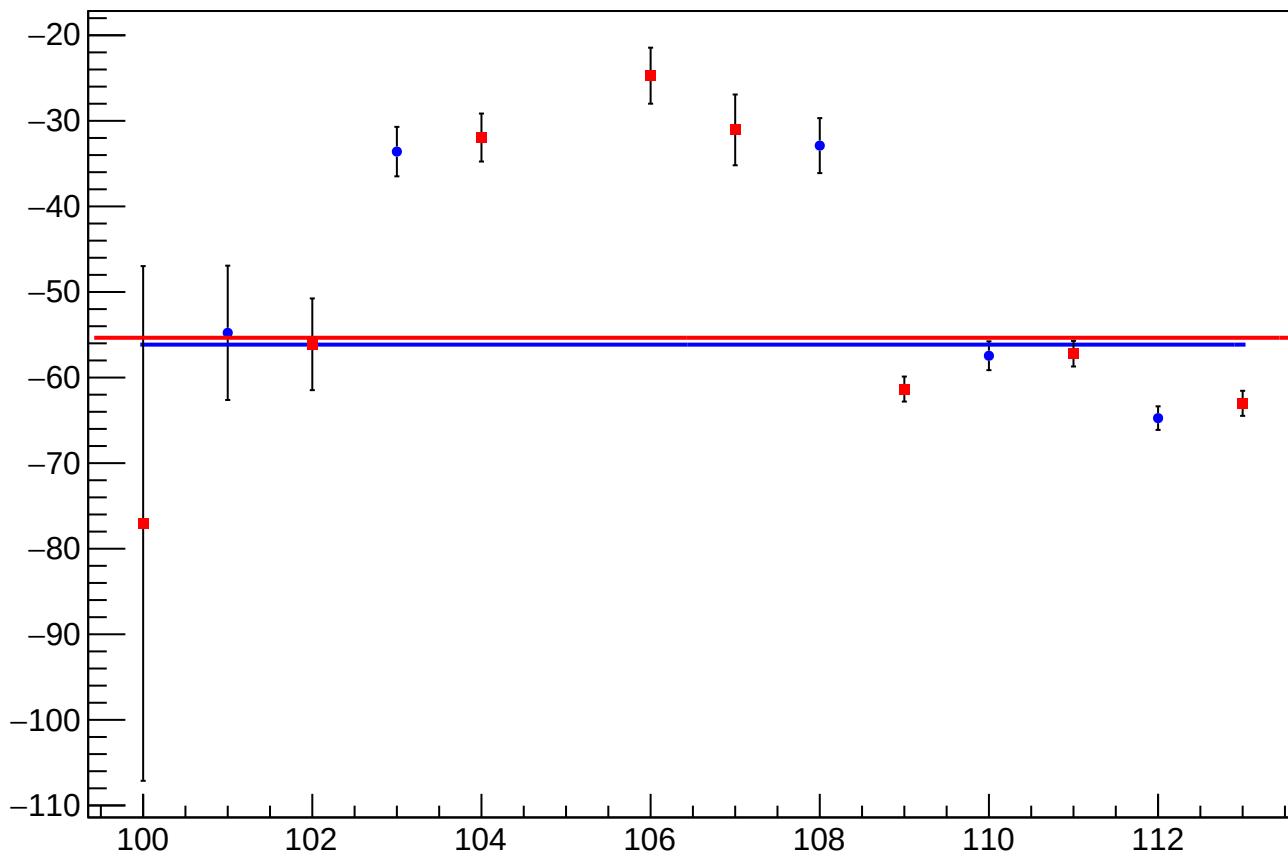
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 61.968+/-0.050  $\chi^2/\text{NDF}$ : 632677.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usr\_atr1\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -56.151+/-0.948  $\chi^2/\text{NDF}$ : 152.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -55.350+/-0.768  $\chi^2/\text{NDF}$ : 237.9/7

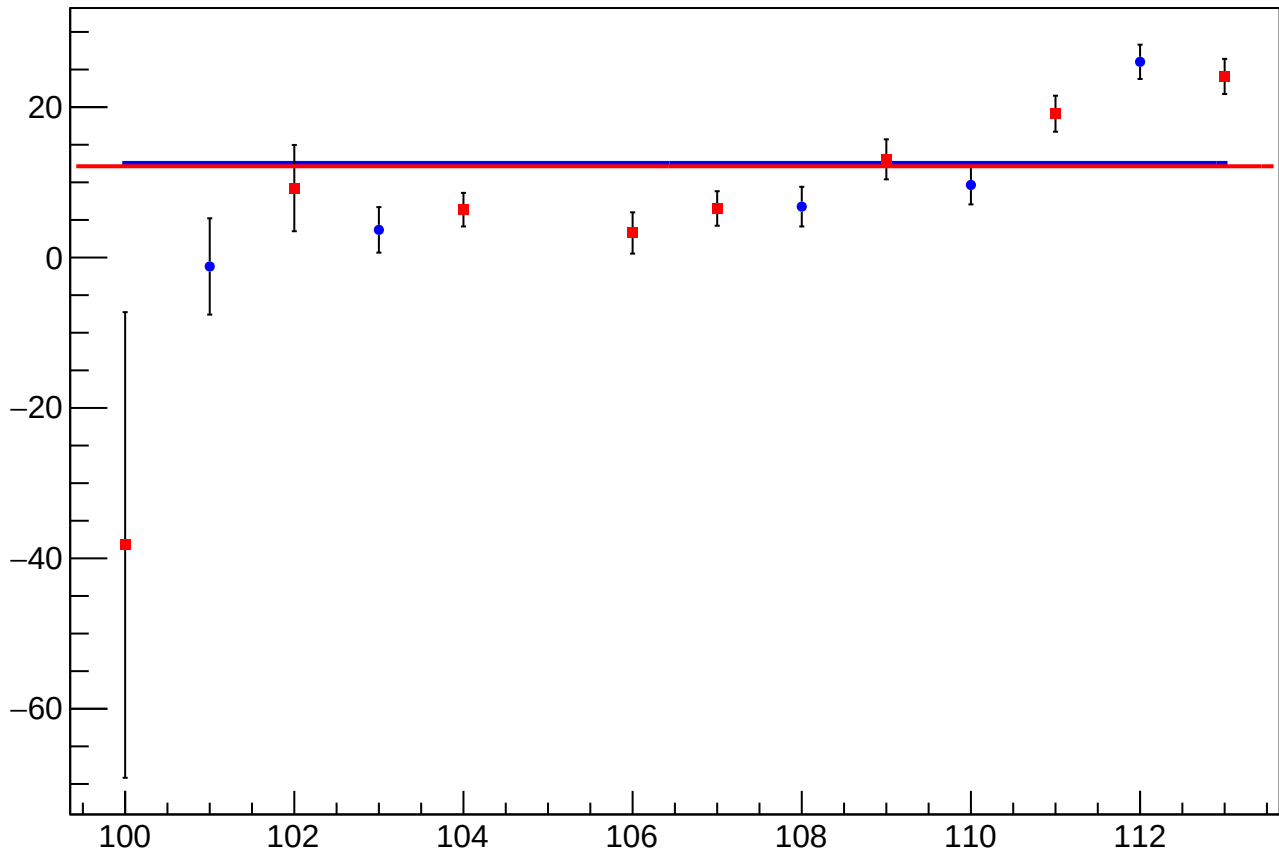
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -55.667+/-0.597  $\chi^2/\text{NDF}$ : 391.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usr\_atr1\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 12.582 $\pm$ 1.271  $\chi^2$ /NDF: 54.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 12.136 $\pm$ 0.974  $\chi^2$ /NDF: 60.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

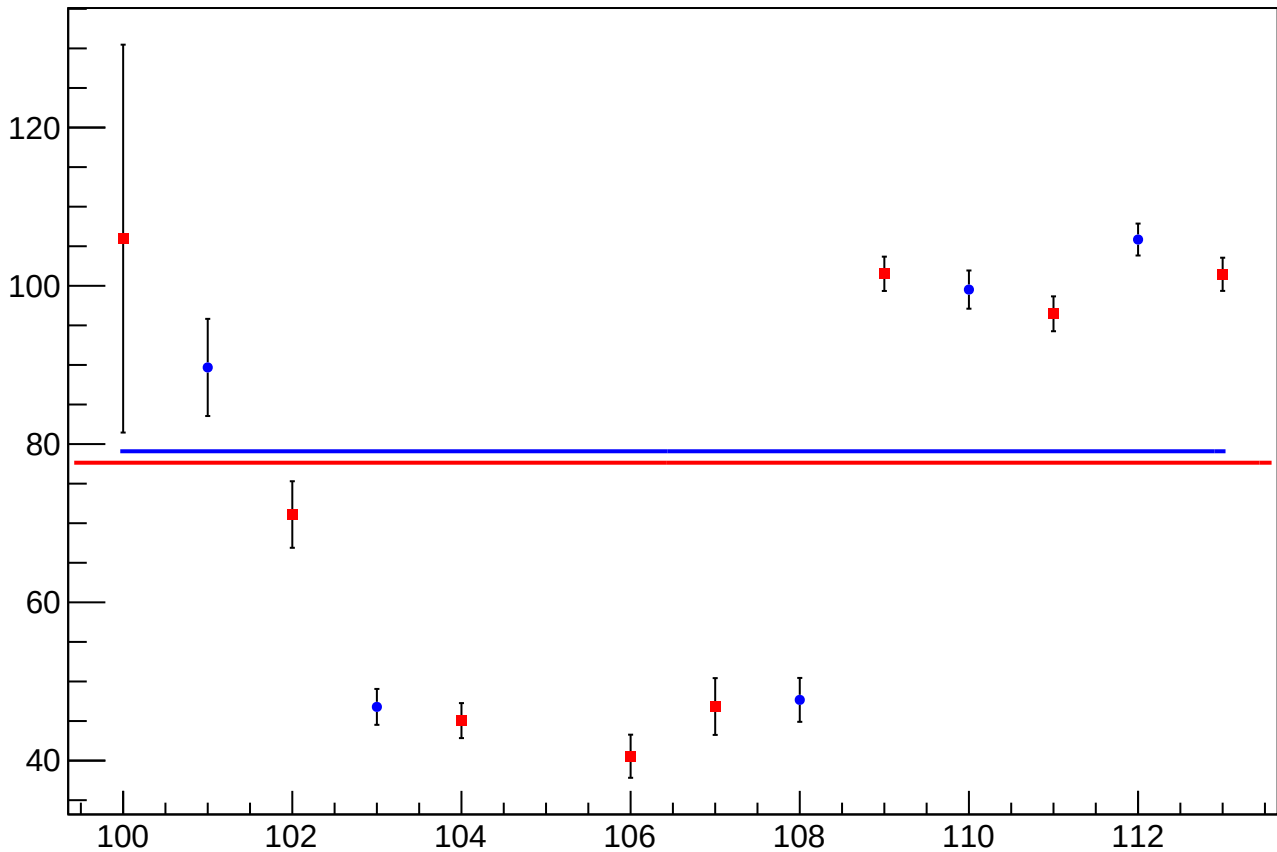
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12.301 $\pm$ 0.773  $\chi^2$ /NDF: 115.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_usr\_atr1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 79.091+/-1.141  $\chi^2$ /NDF: 581.5/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 77.645+/-0.944  $\chi^2$ /NDF: 803.0/7

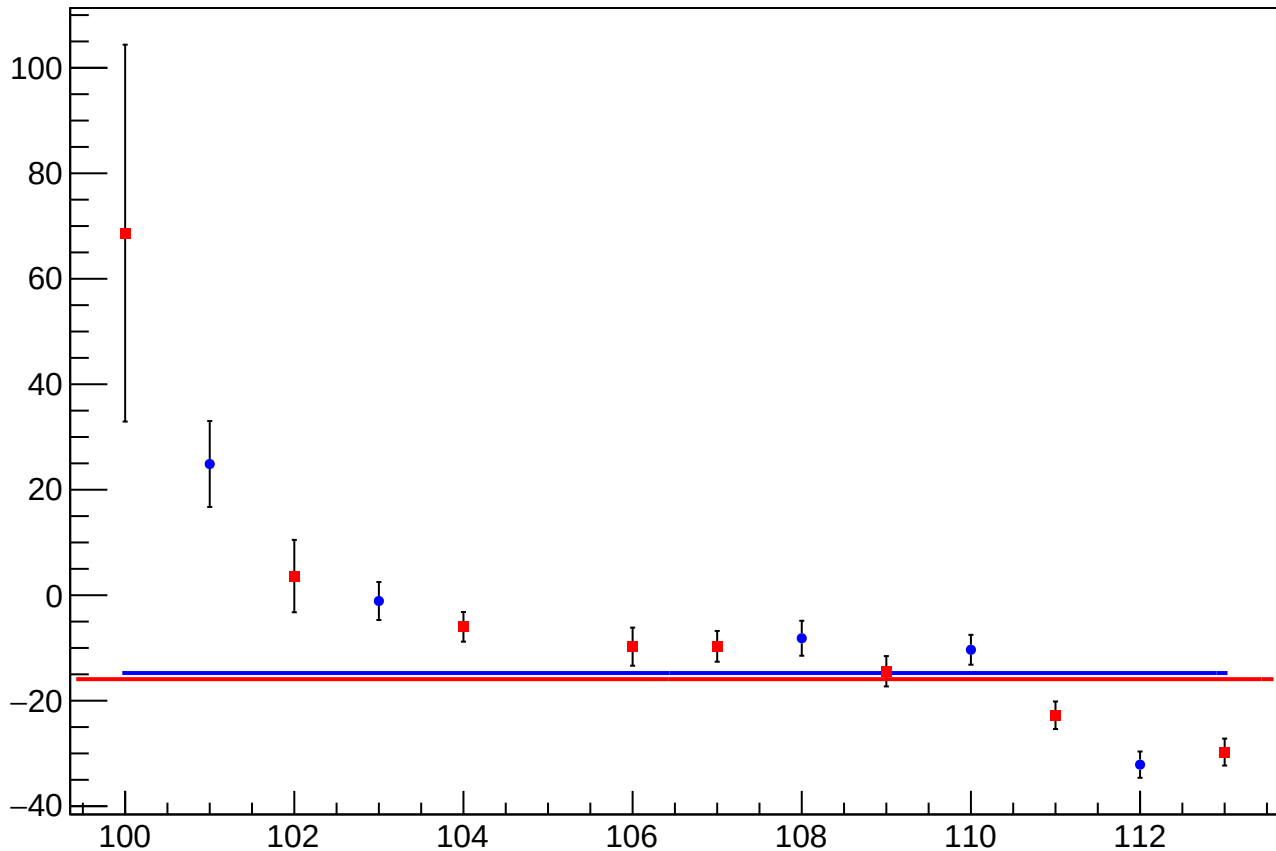
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 78.233+/-0.728  $\chi^2$ /NDF: 1385.4/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr1\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -14.755 $\pm$ 1.461  $\chi^2$ /NDF: 93.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -15.915 $\pm$ 1.145  $\chi^2$ /NDF: 70.0/7

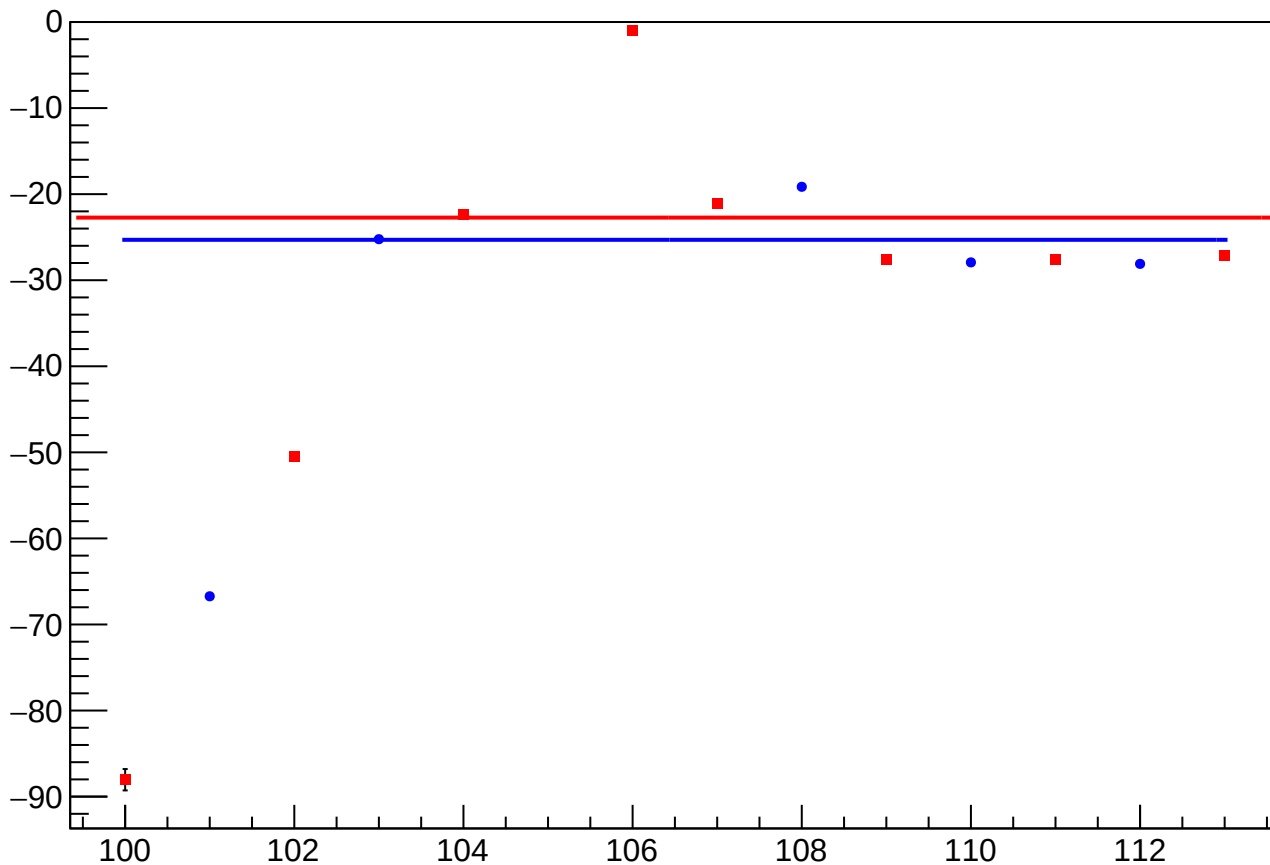
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -15.474 $\pm$ 0.901  $\chi^2$ /NDF: 163.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr1\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-25.306 \pm 0.062$   $\chi^2/\text{NDF}: 16447.7/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-22.726 \pm 0.054$   $\chi^2/\text{NDF}: 59079.7/7$

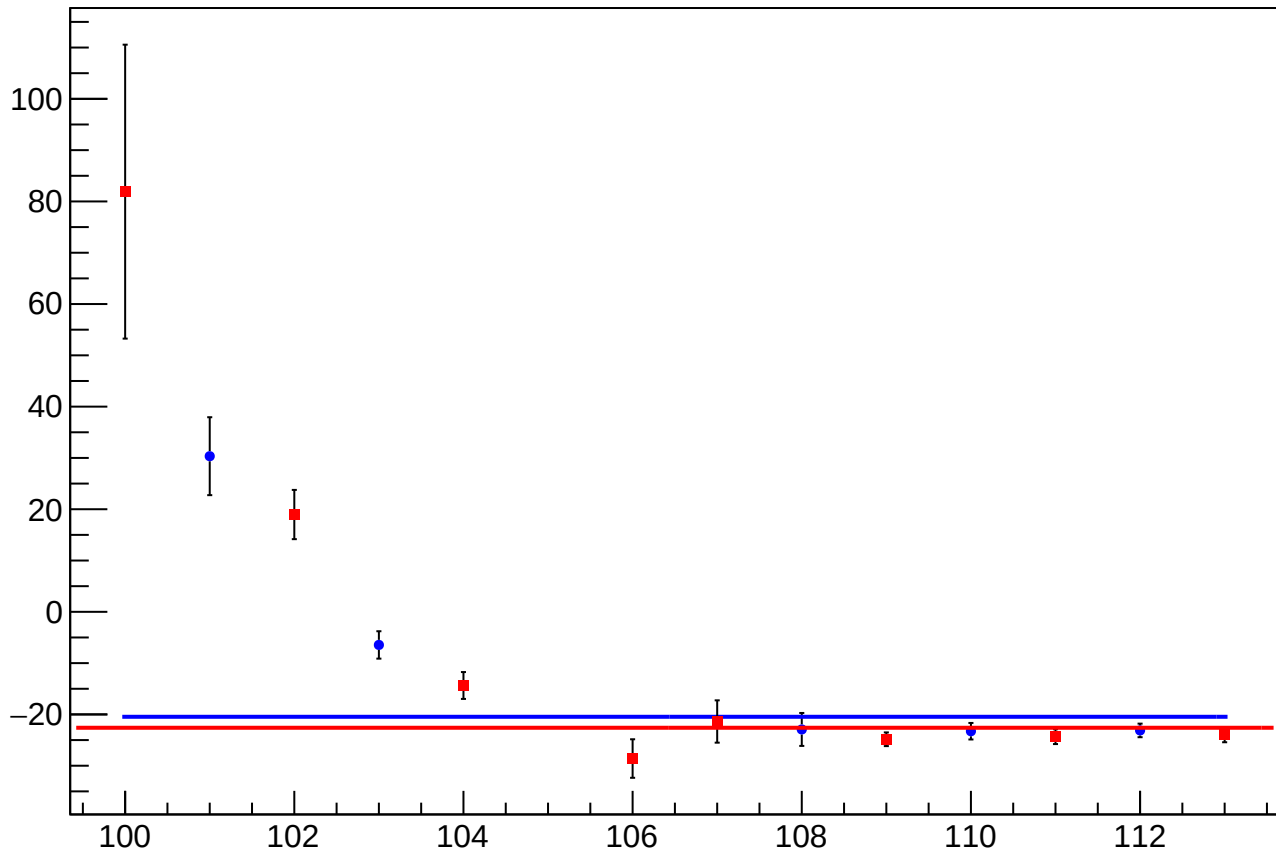
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-23.833 \pm 0.040$   $\chi^2/\text{NDF}: 76524.5/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_usr\_atr1\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-20.460 \pm 0.908$   $\chi^2/\text{NDF}: 79.9/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-22.600 \pm 0.735$   $\chi^2/\text{NDF}: 106.1/7$

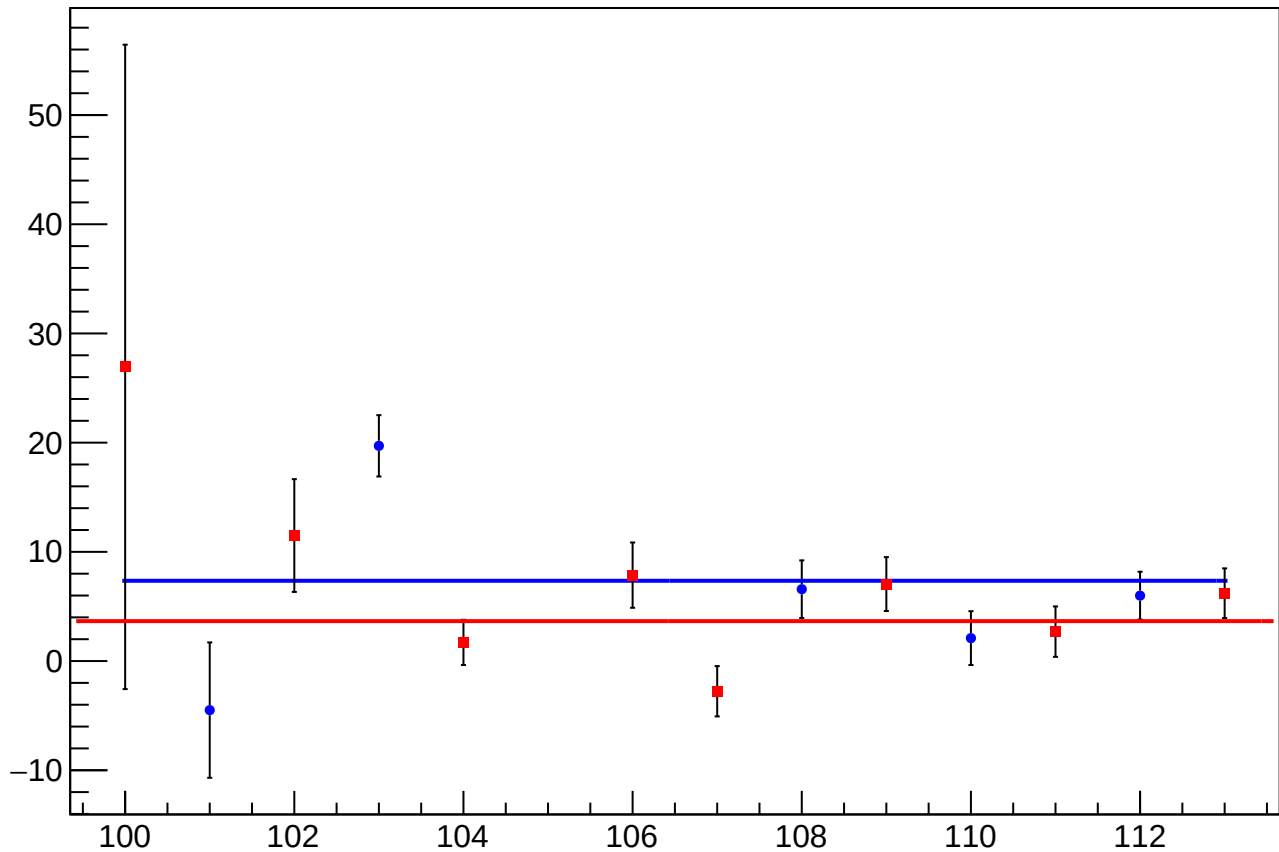
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-21.753 \pm 0.571$   $\chi^2/\text{NDF}: 189.3/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_usr\_atr1\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 7.351 $\pm$ 1.222  $\chi^2$ /NDF: 28.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.656 $\pm$ 0.946  $\chi^2$ /NDF: 16.9/7

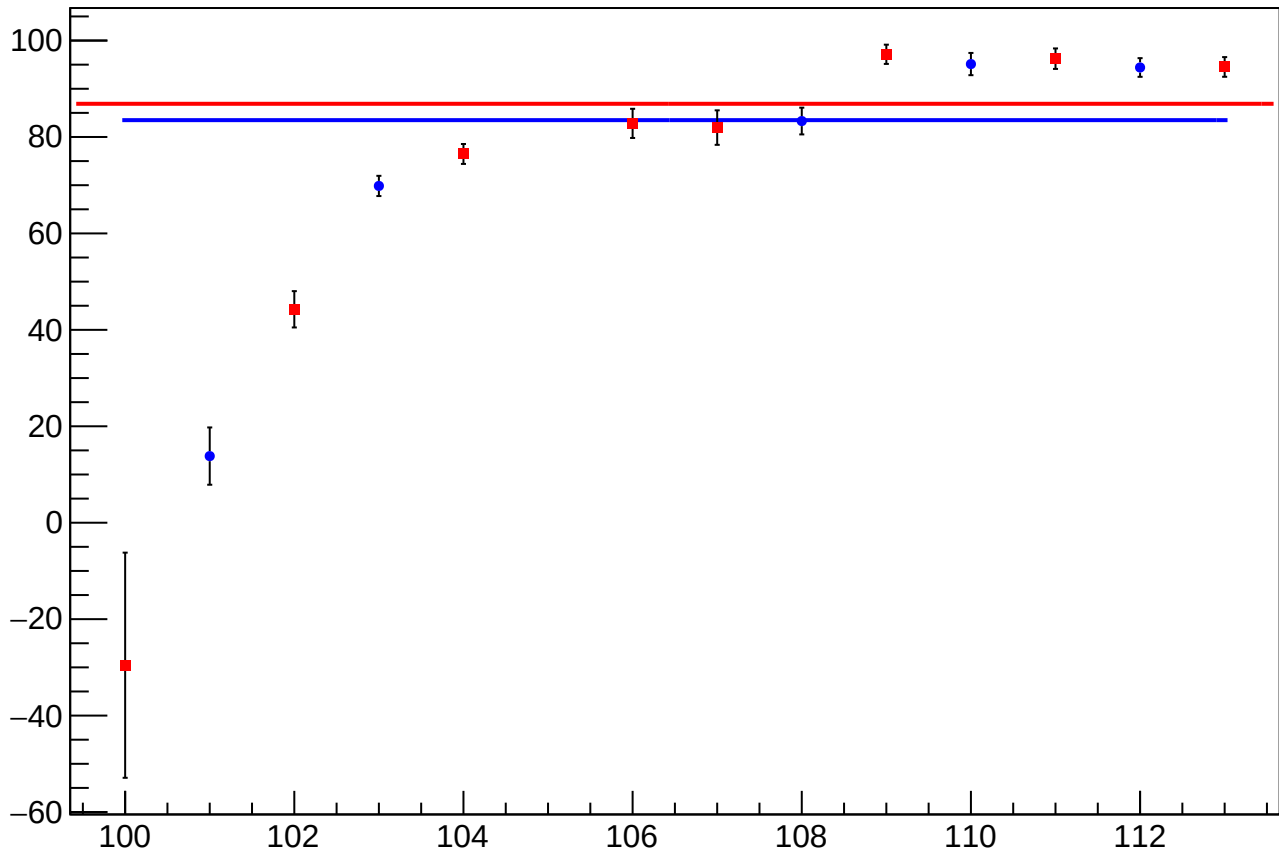
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.040 $\pm$ 0.748  $\chi^2$ /NDF: 50.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_atr1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 83.492 $\pm$ 1.091  $\chi^2$ /NDF: 237.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 86.884 $\pm$ 0.910  $\chi^2$ /NDF: 241.8/7

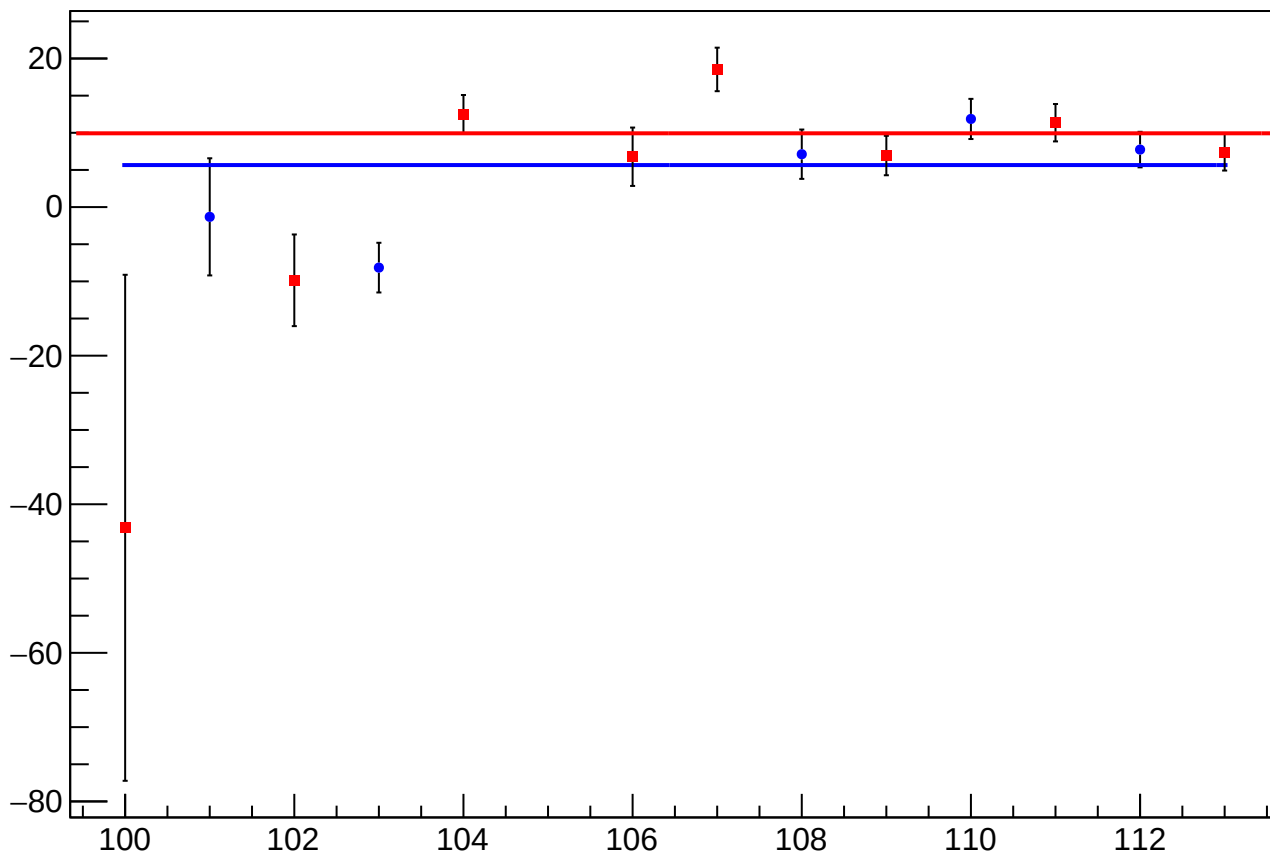
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 85.491 $\pm$ 0.699  $\chi^2$ /NDF: 484.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_atr1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 5.657 $\pm$ 1.403  $\chi^2$ /NDF: 24.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 9.931 $\pm$ 1.107  $\chi^2$ /NDF: 25.5/7

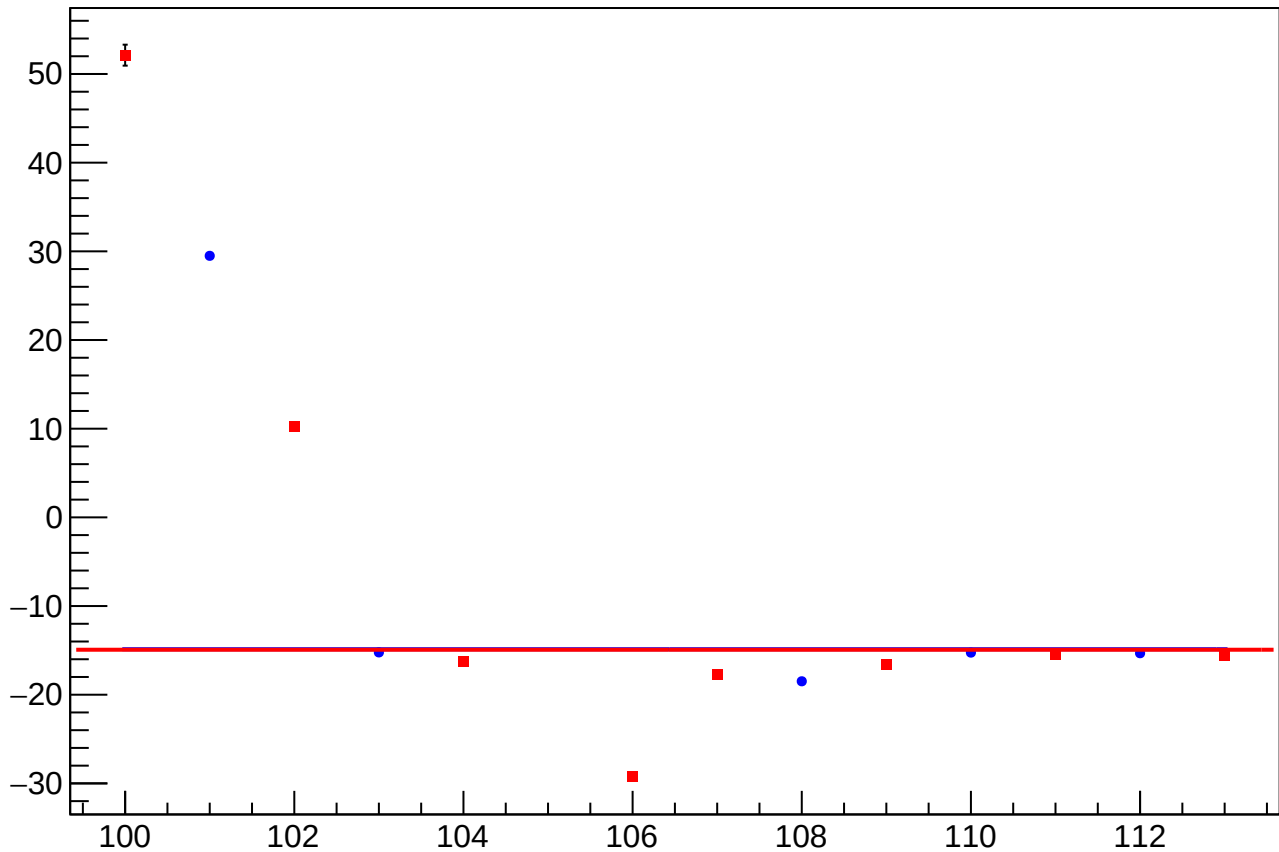
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8.292 $\pm$ 0.869  $\chi^2$ /NDF: 55.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr1\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -14.870 $\pm$ 0.059  $\chi^2$ /NDF: 16974.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -14.928 $\pm$ 0.053  $\chi^2$ /NDF: 37824.8/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

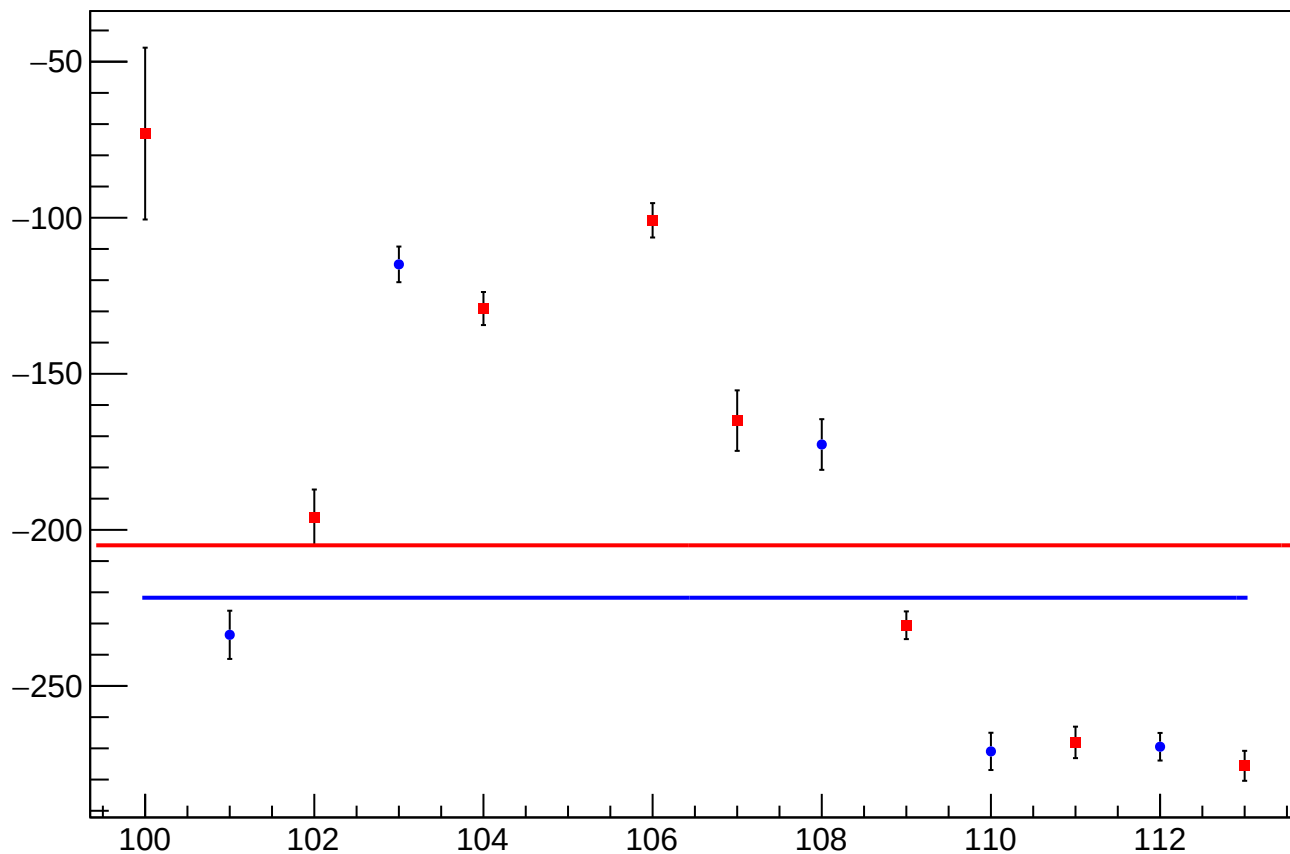
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.902 $\pm$ 0.039  $\chi^2$ /NDF: 54799.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_usr\_atr2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -221.740 $\pm$ 2.655  $\chi^2$ /NDF: 573.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -204.948 $\pm$ 2.101  $\chi^2$ /NDF: 1010.3/7

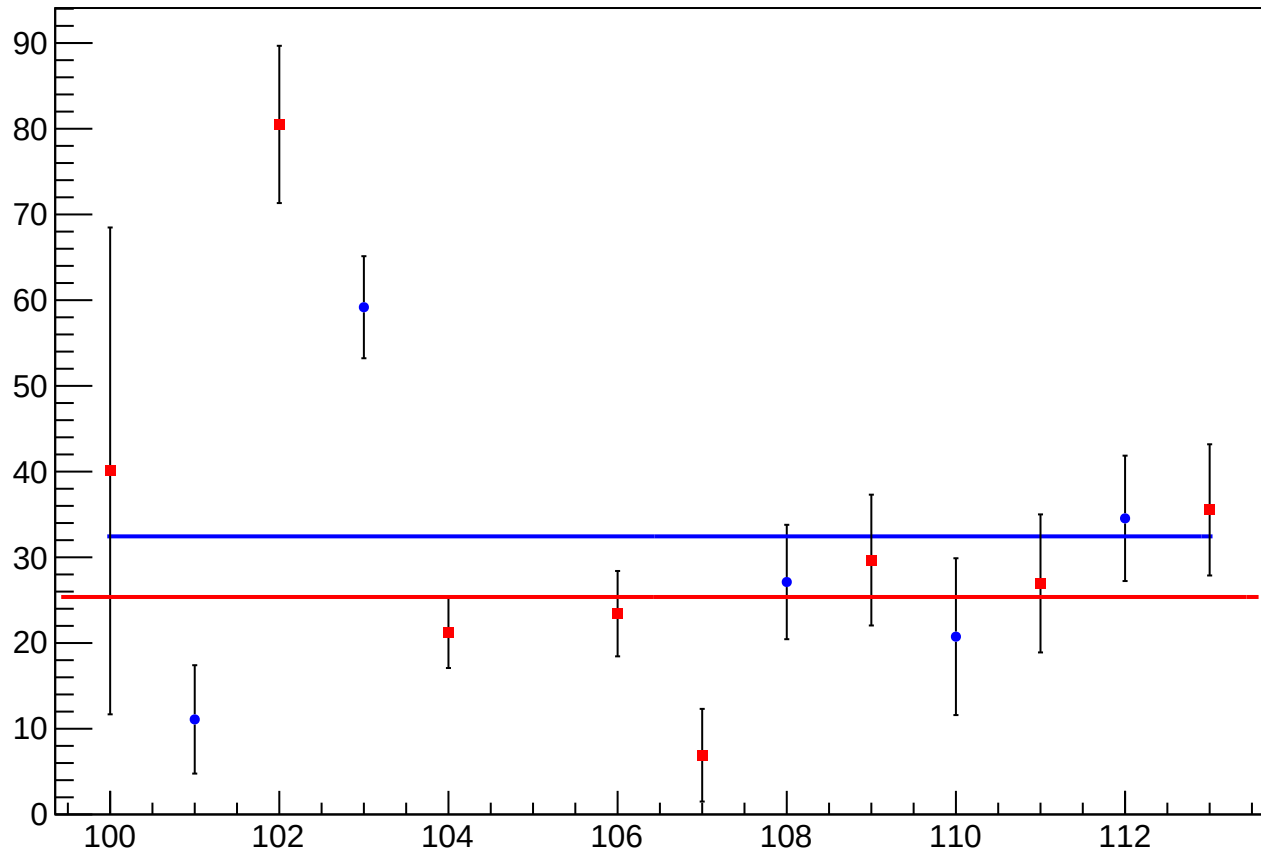
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -211.411 $\pm$ 1.647  $\chi^2$ /NDF: 1608.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 32.443 $\pm$ 3.067  $\chi^2$ /NDF: 33.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 25.372 $\pm$ 2.267  $\chi^2$ /NDF: 51.3/7

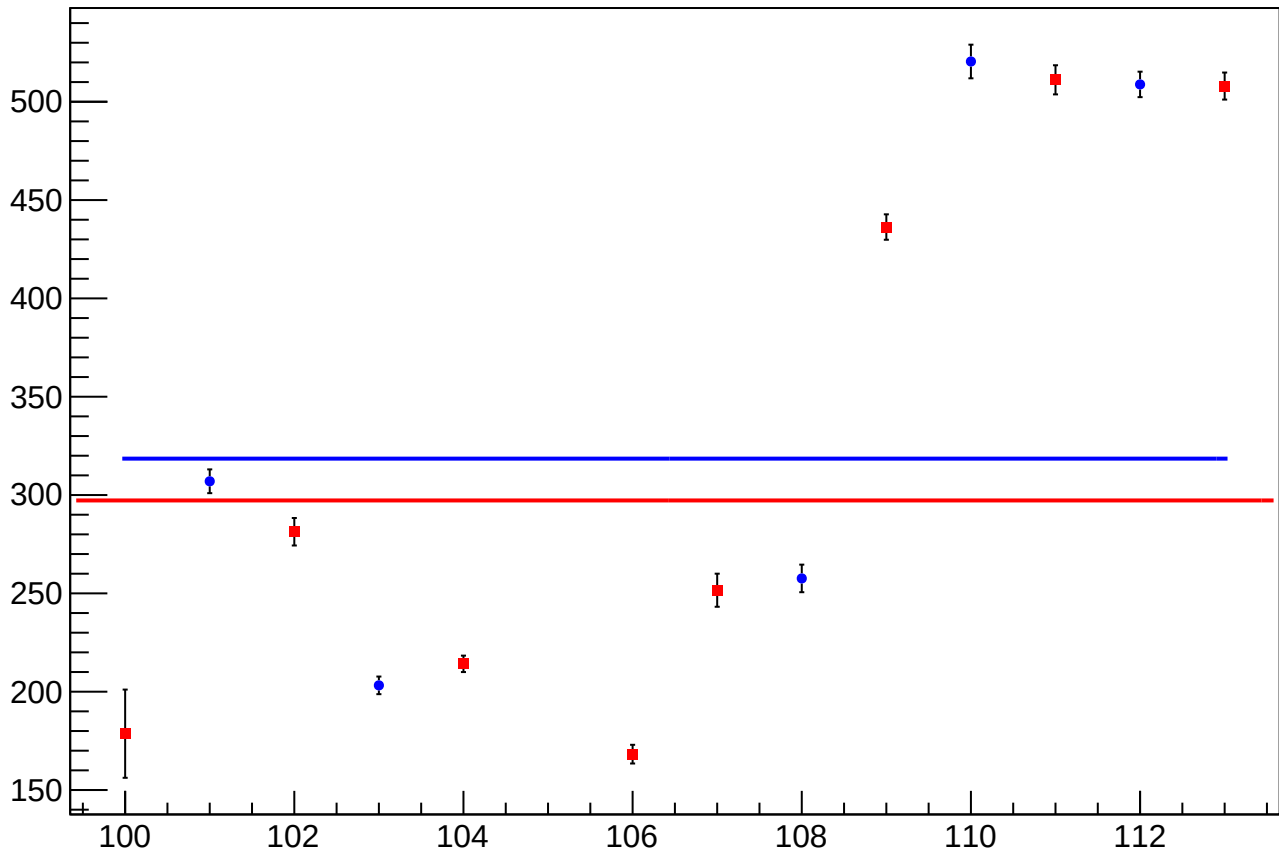
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.871 $\pm$ 1.823  $\chi^2$ /NDF: 88.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 318.517 $\pm$ 2.721  $\chi^2$ /NDF: 2162.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 297.252 $\pm$ 2.228  $\chi^2$ /NDF: 3430.1/7

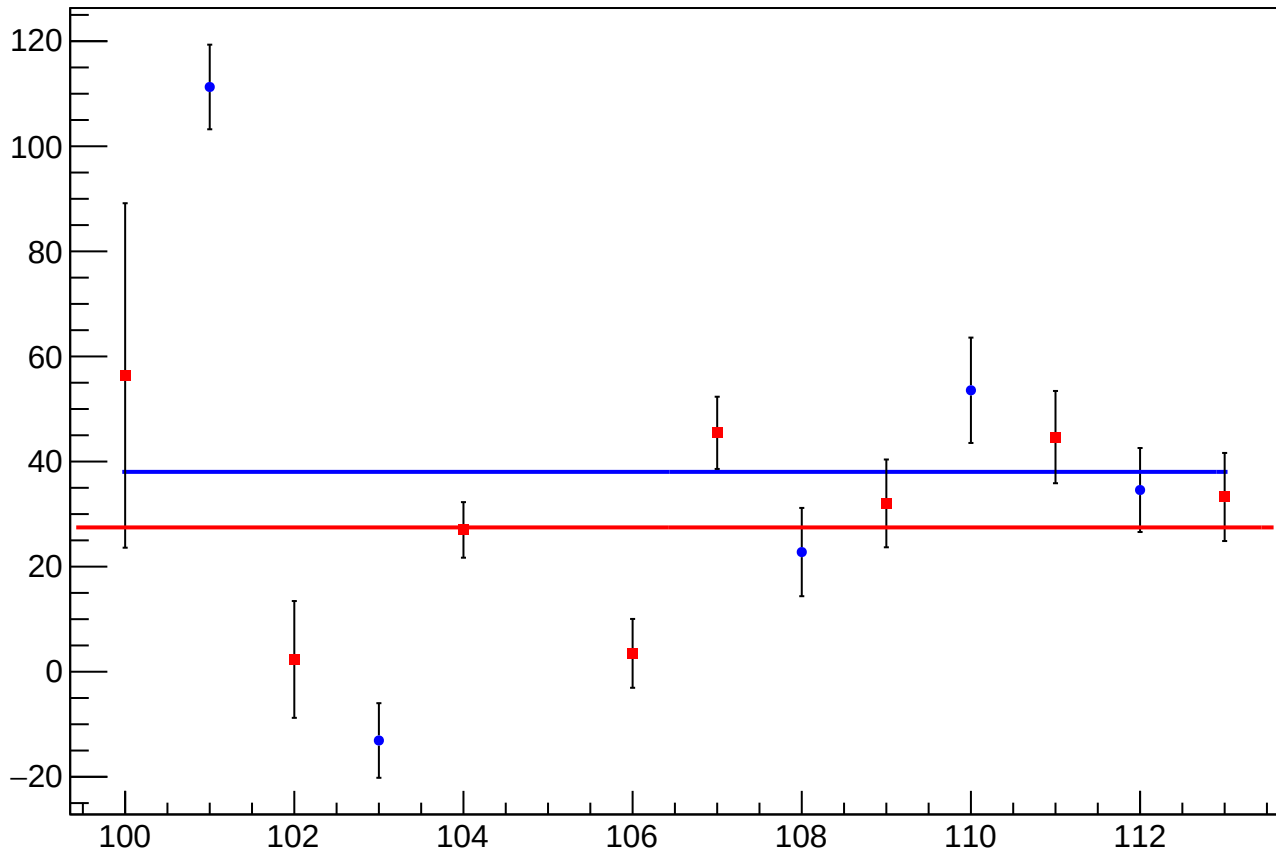
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 305.786 $\pm$ 1.724  $\chi^2$ /NDF: 5629.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 38.035 $\pm$ 3.651  $\chi^2$ /NDF: 140.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27.463 $\pm$ 2.765  $\chi^2$ /NDF: 30.7/7

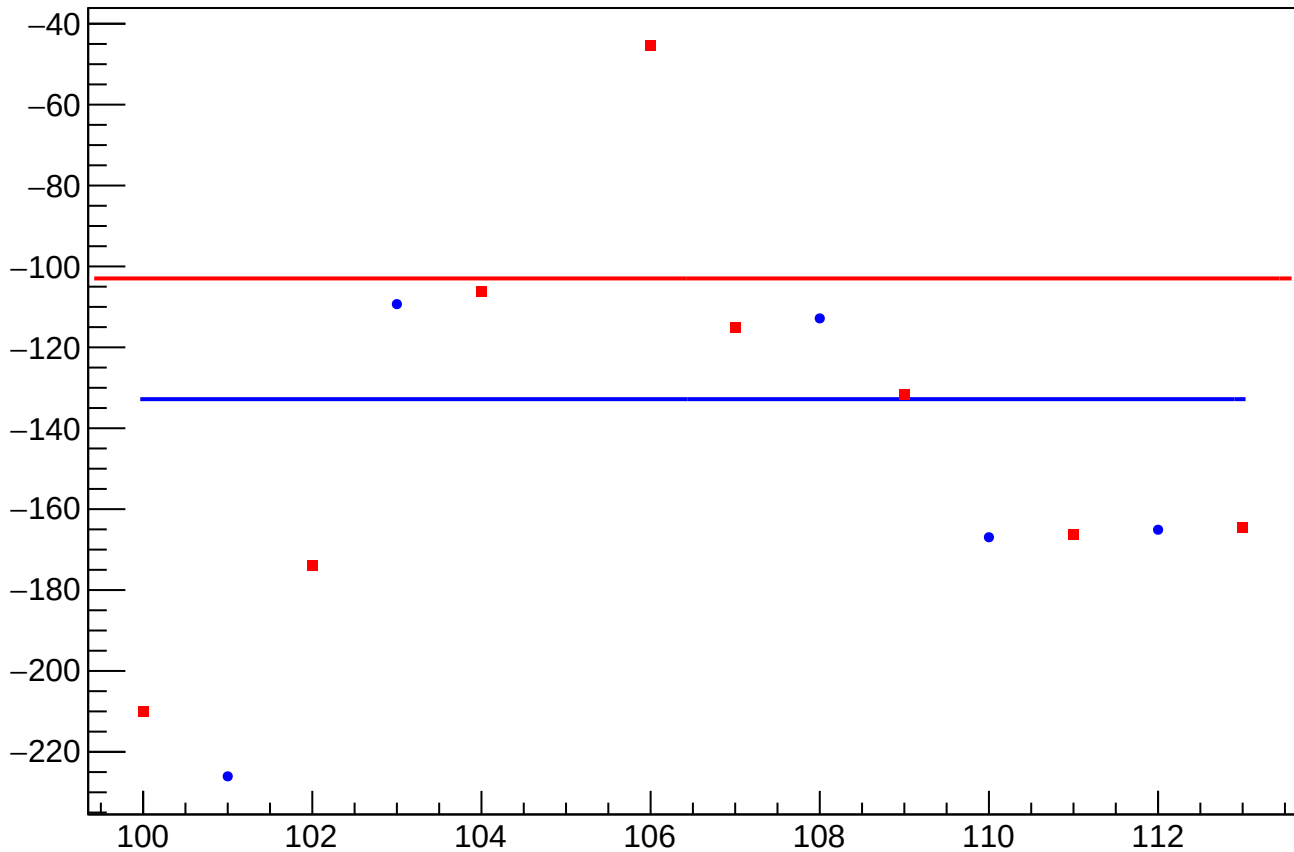
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.317 $\pm$ 2.204  $\chi^2$ /NDF: 176.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -132.809+/-0.136  $\chi^2/\text{NDF}$ : 93713.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -102.965+/-0.109  $\chi^2/\text{NDF}$ : 188103.2/7

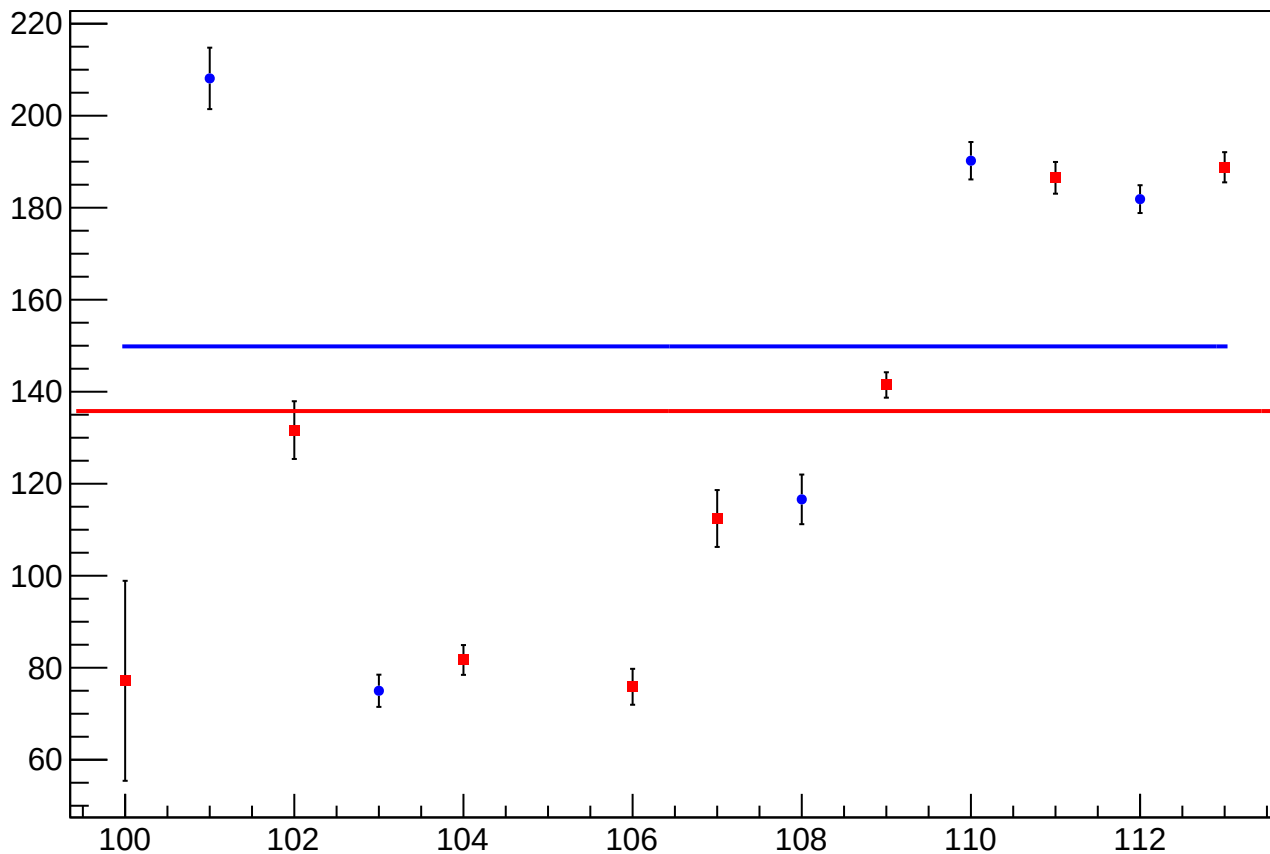
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -114.587+/-0.085  $\chi^2/\text{NDF}$ : 311241.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 149.852 $\pm$ 1.802  $\chi^2$ /NDF: 781.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 135.797 $\pm$ 1.384  $\chi^2$ /NDF: 1017.5/7

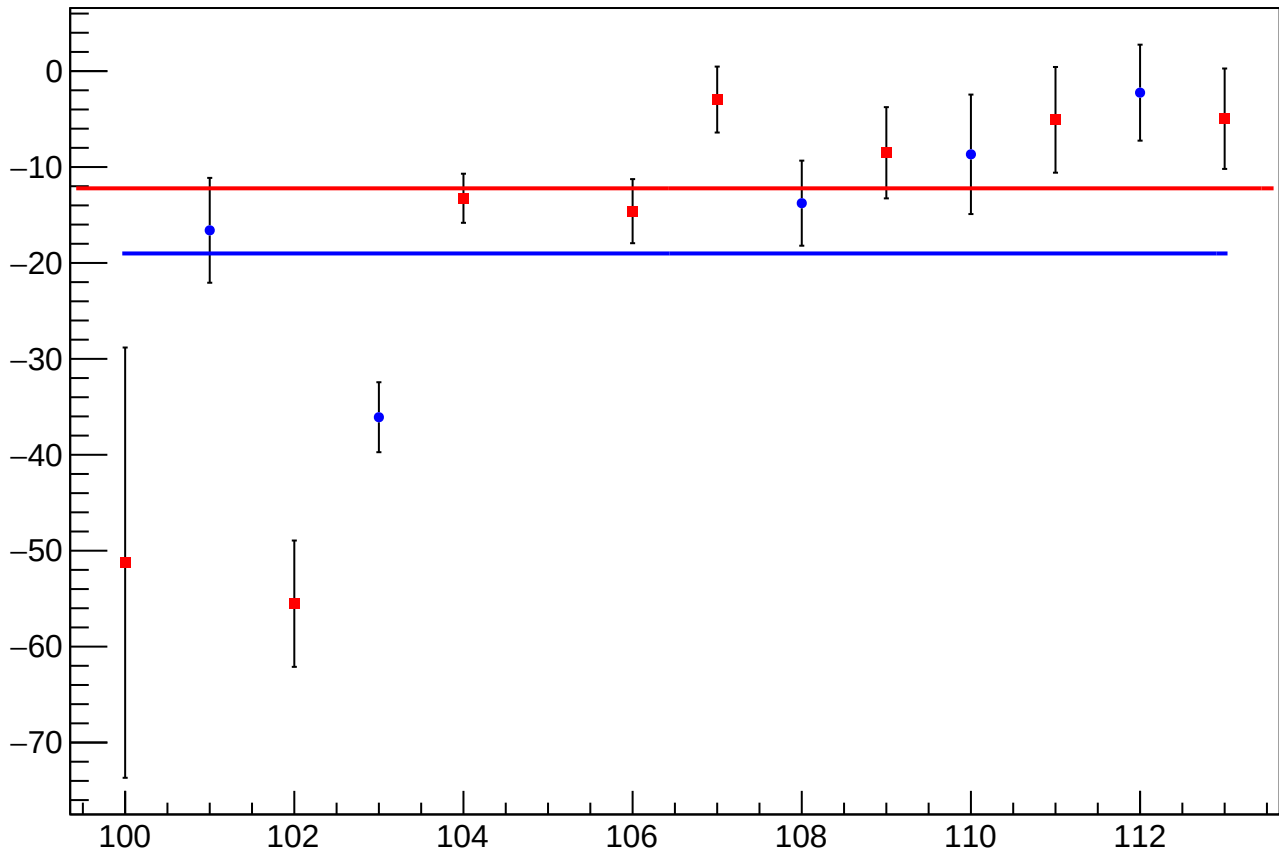
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 141.011 $\pm$ 1.097  $\chi^2$ /NDF: 1837.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-19.010 \pm 2.107$   $\chi^2/\text{NDF}$ : 37.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-12.220 \pm 1.466$   $\chi^2/\text{NDF}$ : 58.4/7

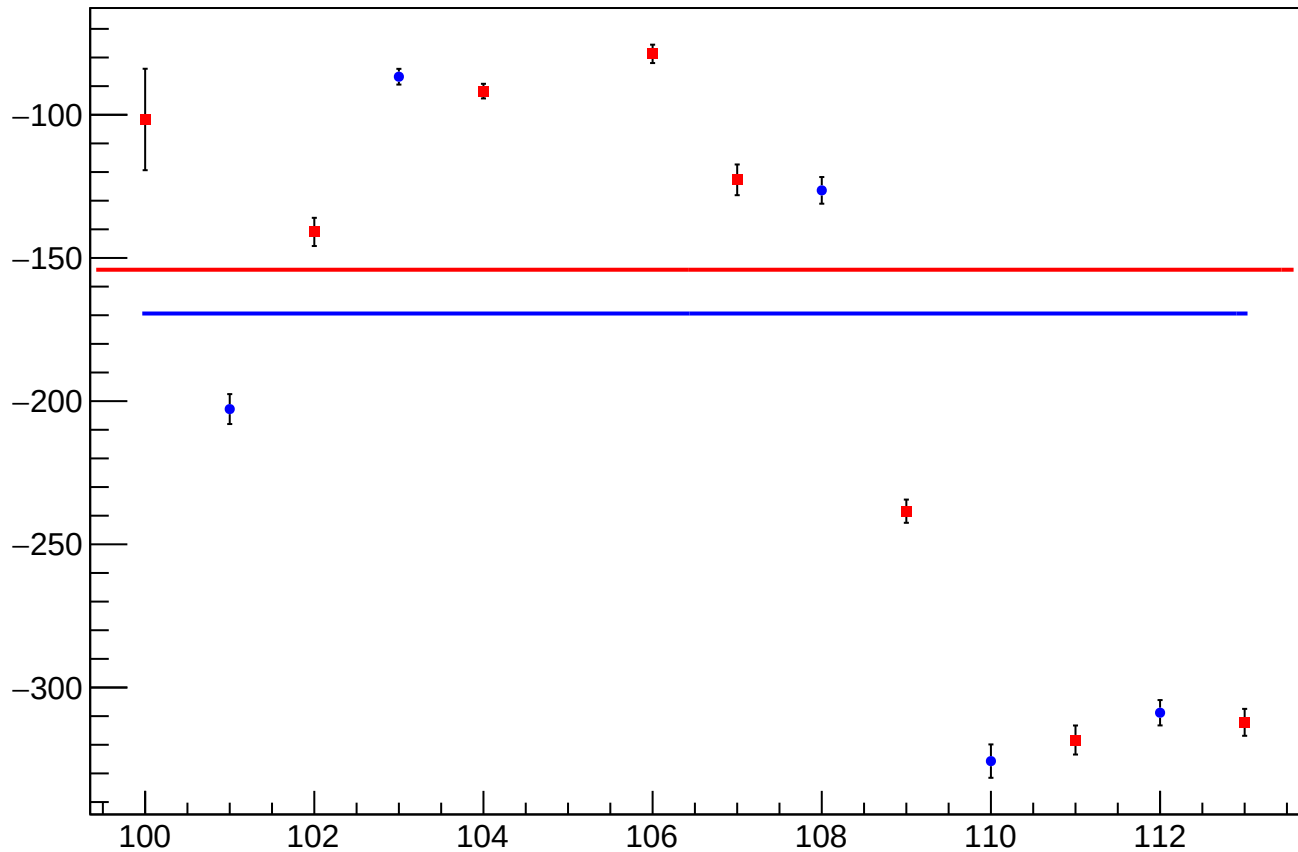
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-14.434 \pm 1.203$   $\chi^2/\text{NDF}$ : 102.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usr\_atr2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -169.398+/-1.840  $\chi^2$ /NDF: 2741.2/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -154.110+/-1.452  $\chi^2$ /NDF: 3808.9/7

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

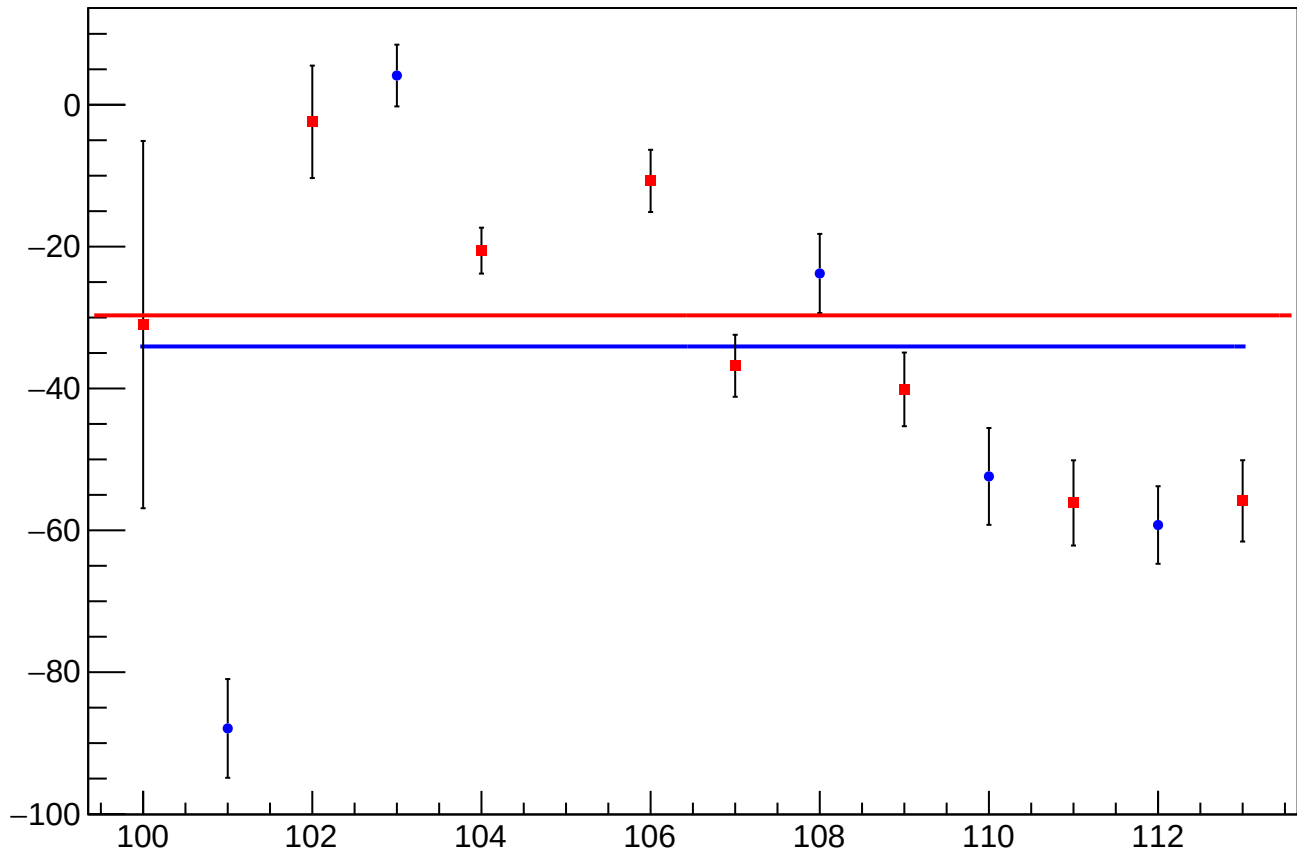
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -159.979+/-1.140  $\chi^2$ /NDF: 6592.7/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_usr\_atr2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -34.076 $\pm$ 2.497  $\chi^2$ /NDF: 168.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -29.693 $\pm$ 1.789  $\chi^2$ /NDF: 85.4/7

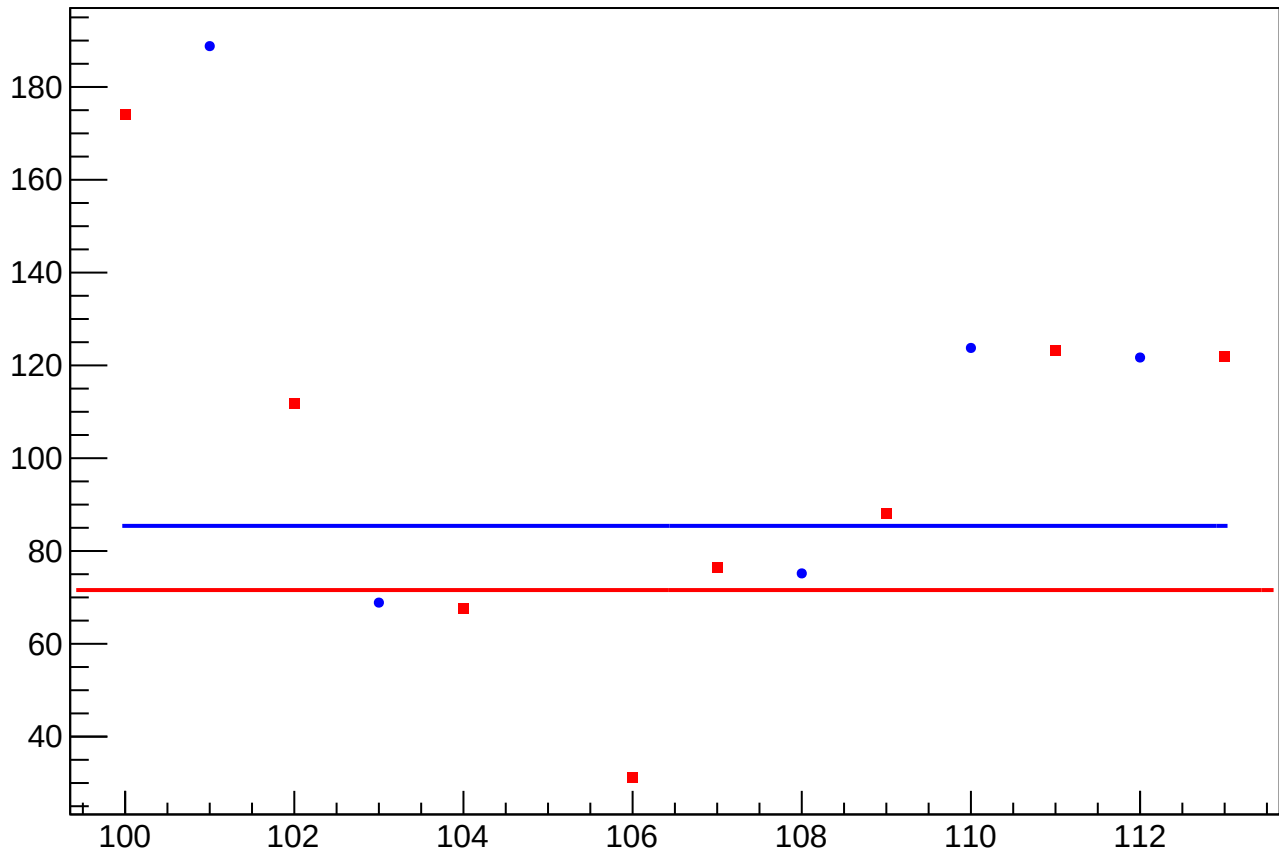
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -31.180 $\pm$ 1.454  $\chi^2$ /NDF: 256.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 85.417+/-0.089  $\chi^2/\text{NDF}$ : 150694.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.583+/-0.074  $\chi^2/\text{NDF}$ : 163706.3/7

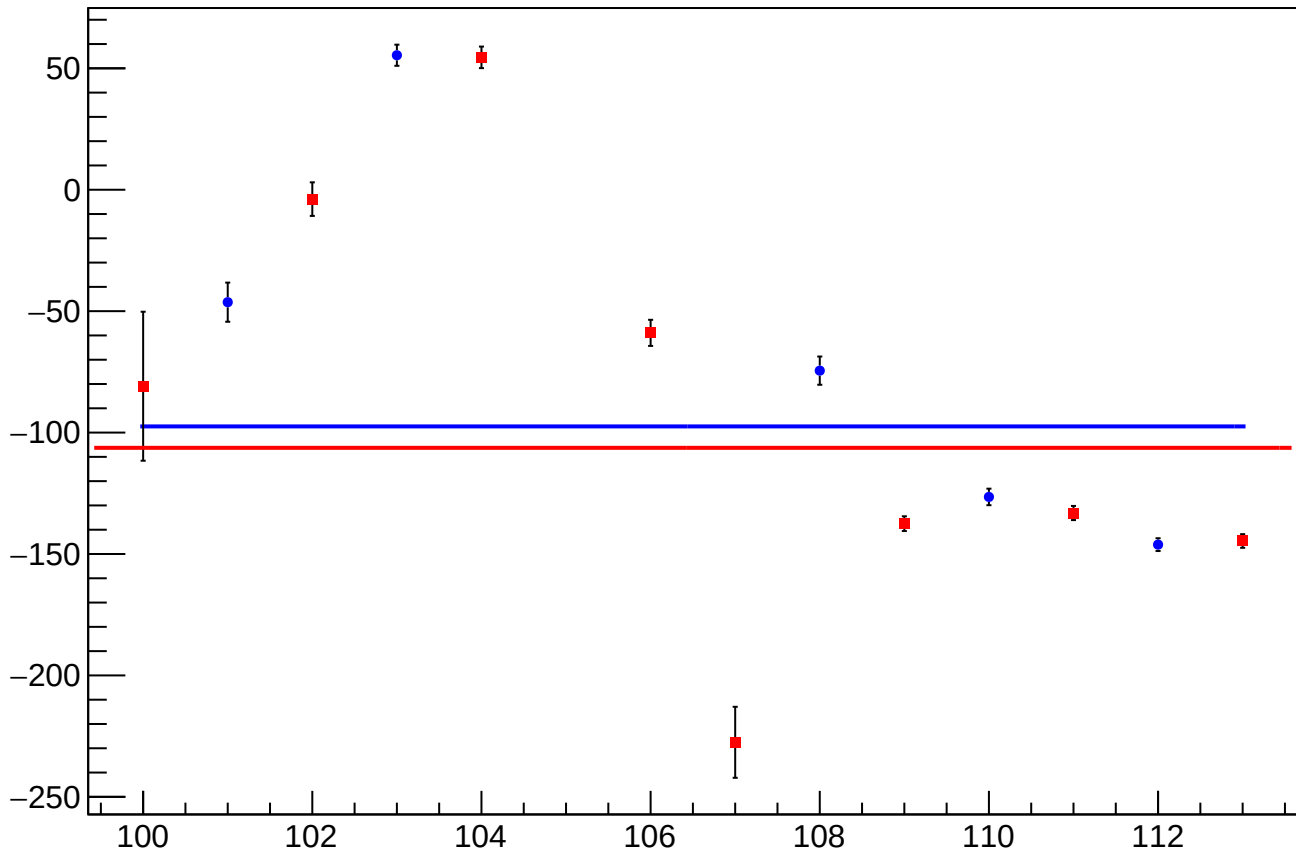
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 77.223+/-0.057  $\chi^2/\text{NDF}$ : 328653.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -97.461 $\pm$ 1.744  $\chi^2$ /NDF: 1705.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -106.277 $\pm$ 1.466  $\chi^2$ /NDF: 2058.6/7

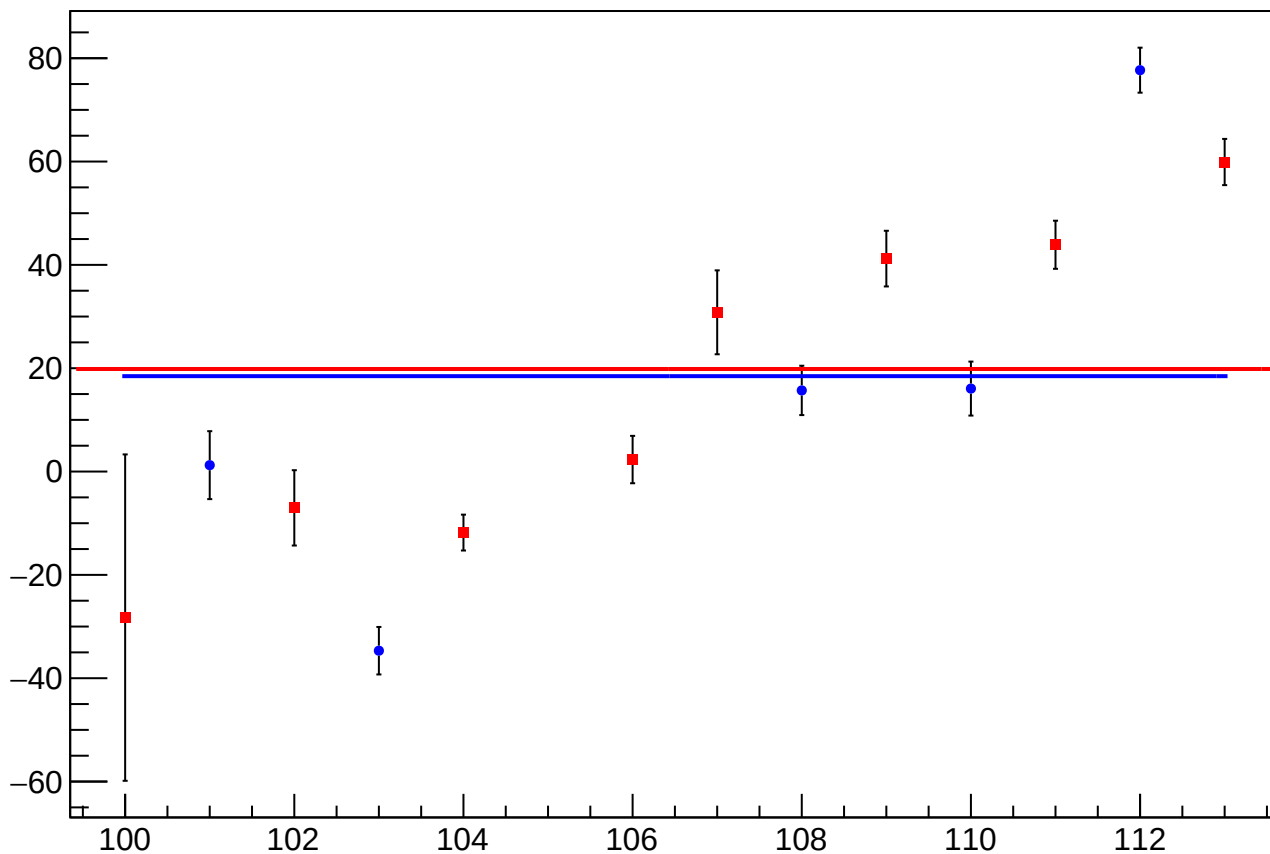
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -102.627 $\pm$ 1.122  $\chi^2$ /NDF: 3778.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 18.462+/-2.216  $\chi^2/\text{NDF}$ : 326.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.850+/-1.838  $\chi^2/\text{NDF}$ : 238.1/7

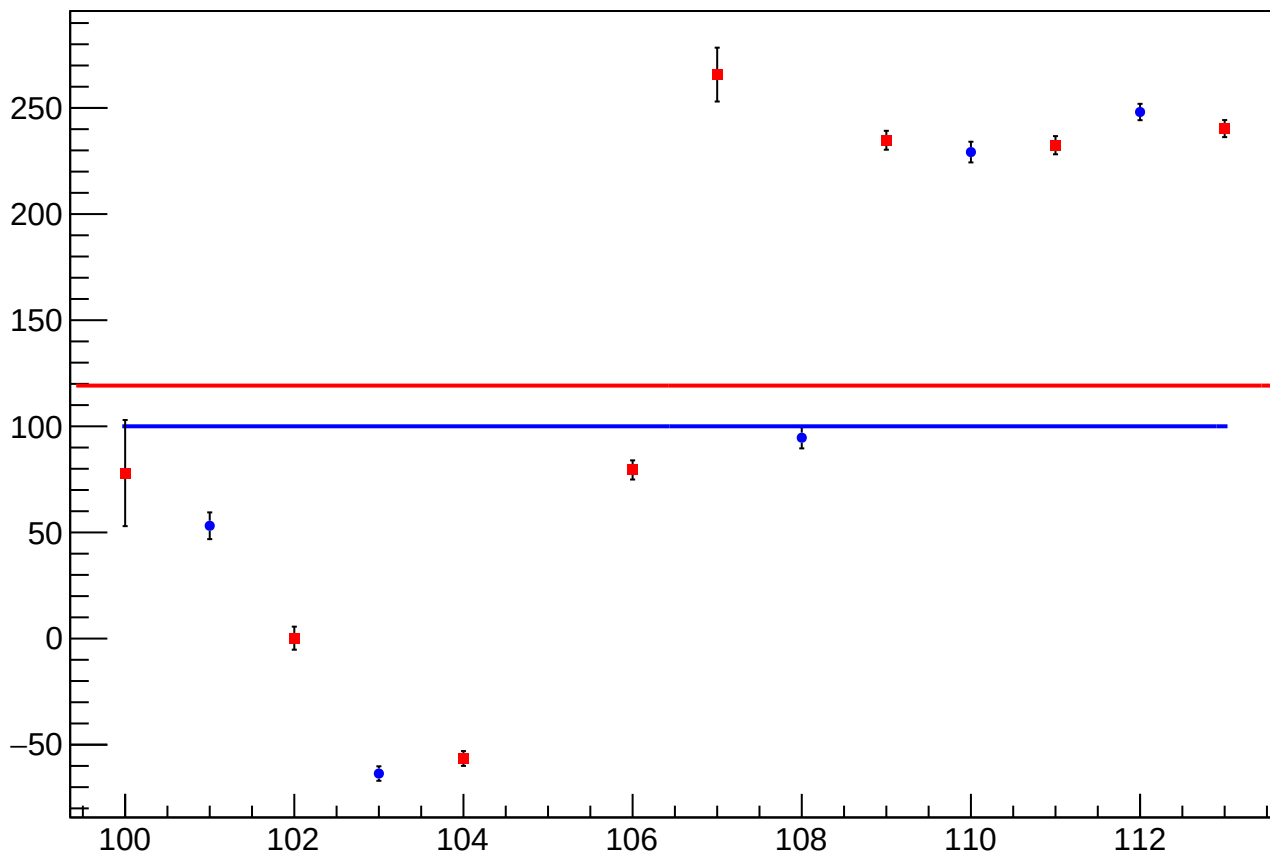
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.284+/-1.415  $\chi^2/\text{NDF}$ : 564.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 100.013+/-1.961  $\chi^2/\text{NDF}$ : 4529.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 119.192+/-1.716  $\chi^2/\text{NDF}$ : 5499.0/7

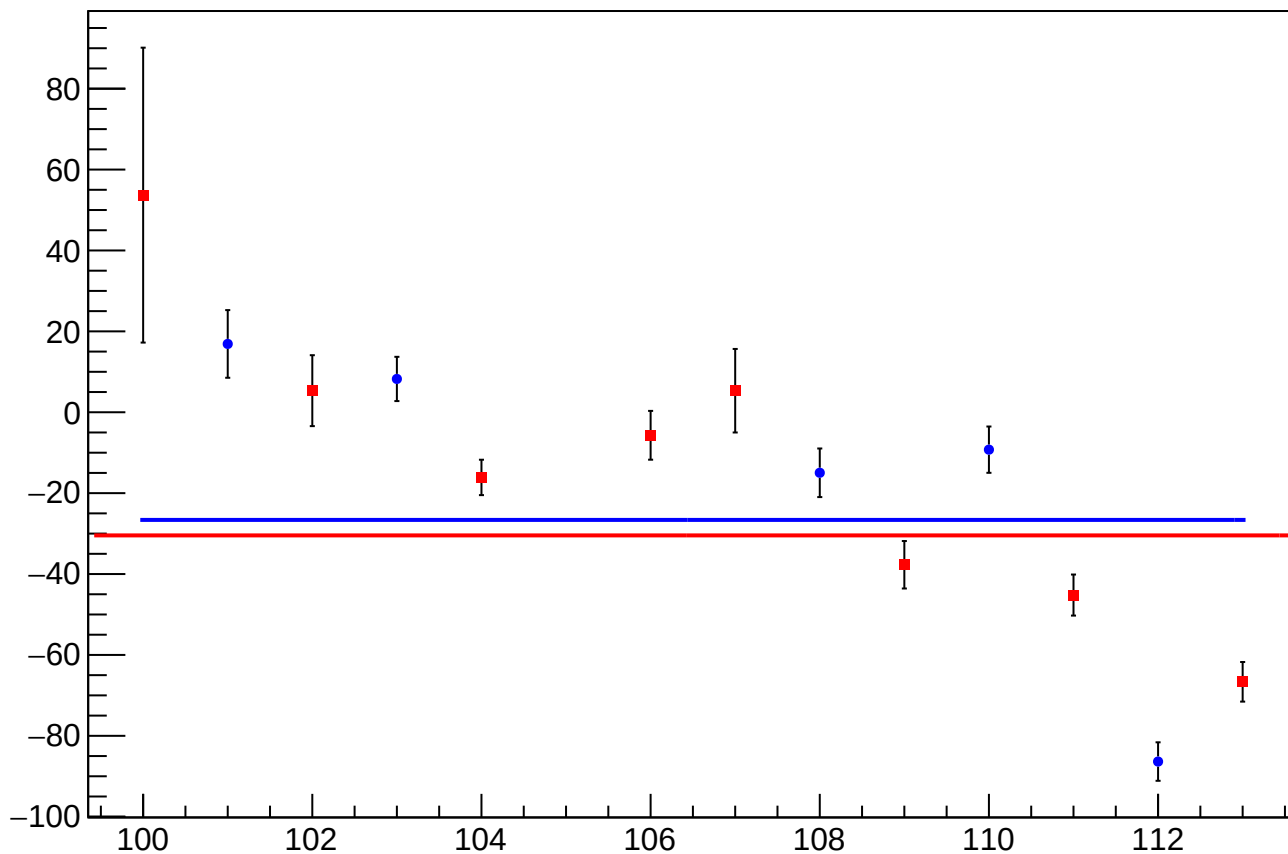
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 110.876+/-1.291  $\chi^2/\text{NDF}$ : 10082.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-26.617 \pm 2.581$   $\chi^2/\text{NDF}$ : 238.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-30.446 \pm 2.170$   $\chi^2/\text{NDF}$ : 126.2/7

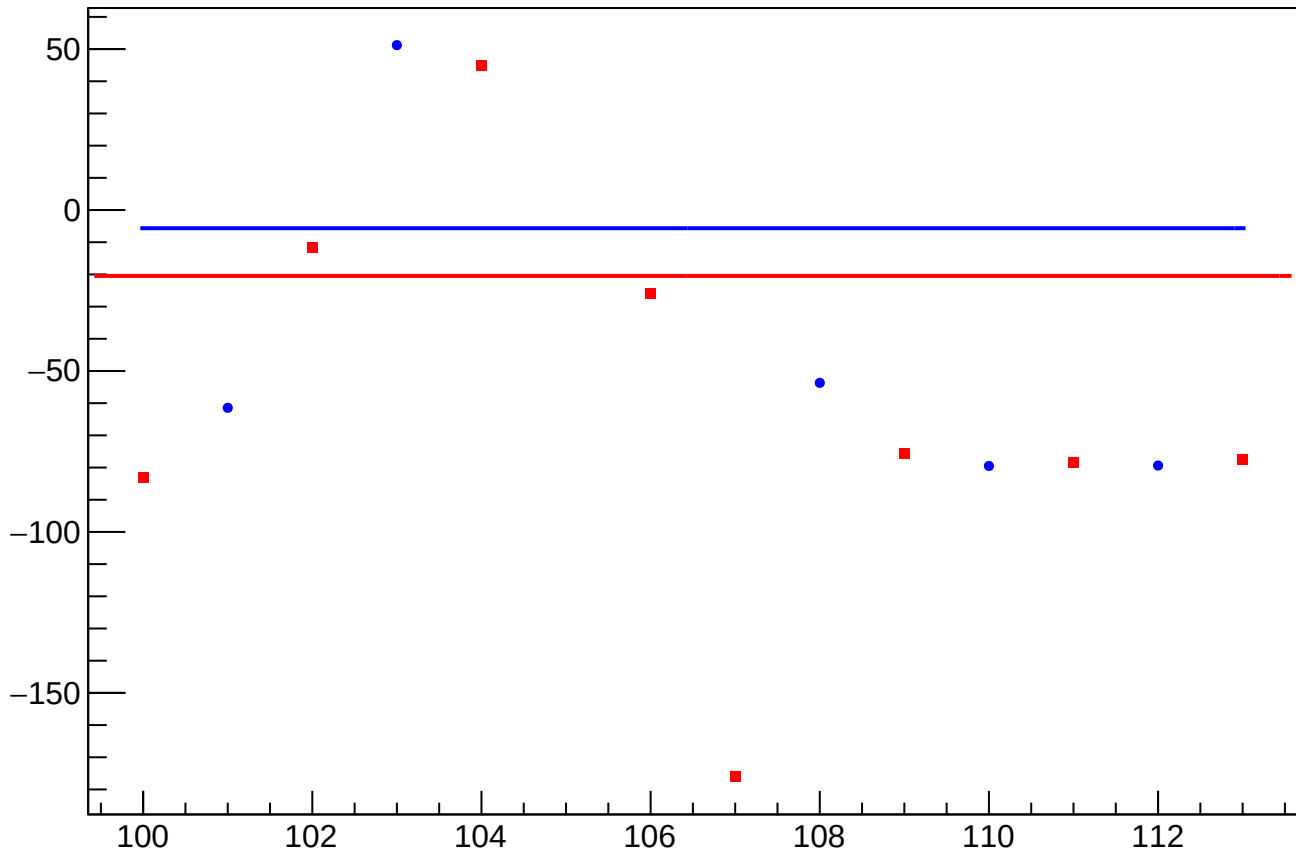
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-28.861 \pm 1.661$   $\chi^2/\text{NDF}$ : 365.8/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-5.647 \pm 0.101$   $\chi^2/\text{NDF}$ : 330403.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-20.466 \pm 0.094$   $\chi^2/\text{NDF}$ : 346433.0/7

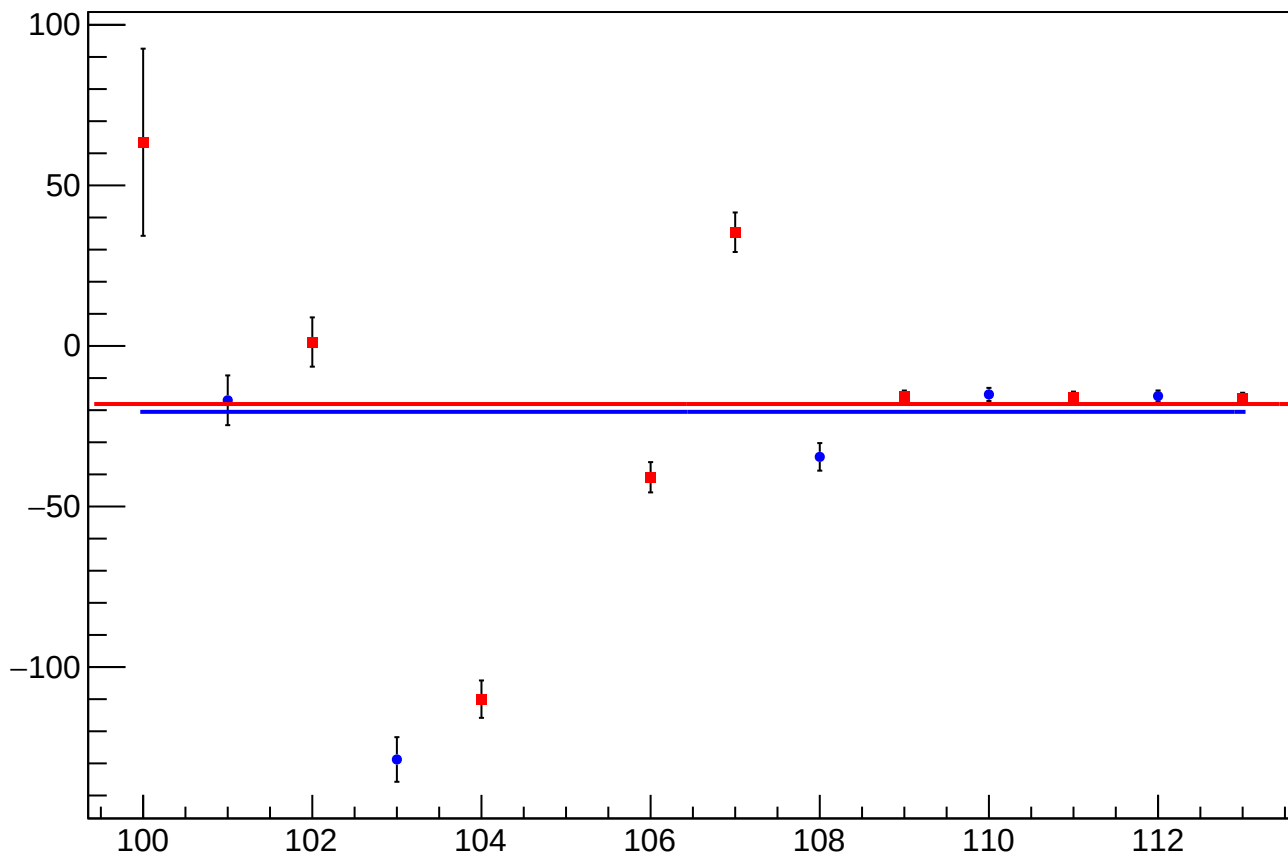
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-13.621 \pm 0.069$   $\chi^2/\text{NDF}$ : 688367.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-20.520 \pm 1.227$   $\chi^2/\text{NDF}$ : 268.5/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-18.084 \pm 0.982$   $\chi^2/\text{NDF}$ : 366.4/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

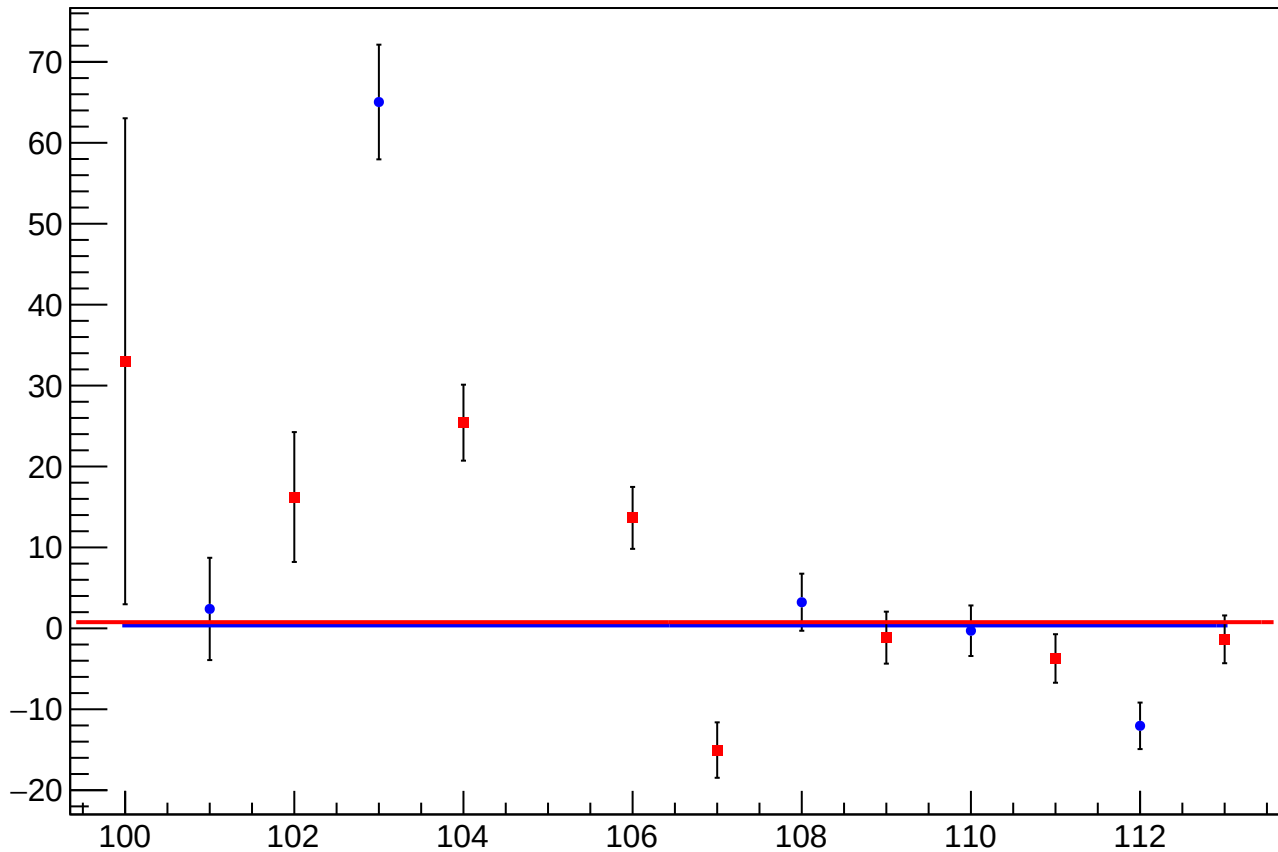
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-19.035 \pm 0.767$   $\chi^2/\text{NDF}$ : 637.3/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.361+/-1.693  $\chi^2/\text{NDF}$ : 102.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.765+/-1.363  $\chi^2/\text{NDF}$ : 68.2/7

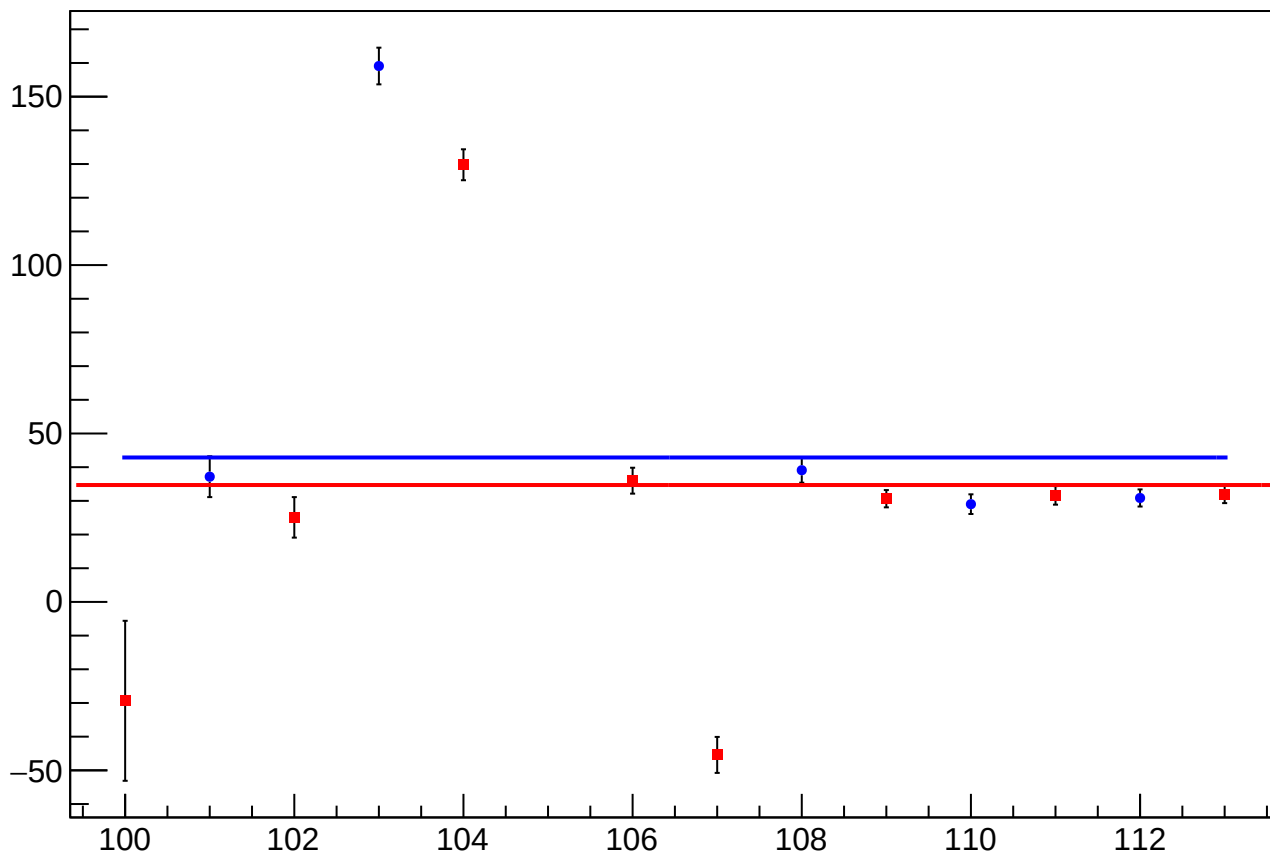
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.606+/-1.062  $\chi^2/\text{NDF}$ : 171.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $42.880 \pm 1.570$   $\chi^2/\text{NDF}: 502.1/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $34.705 \pm 1.286$   $\chi^2/\text{NDF}: 668.1/7$

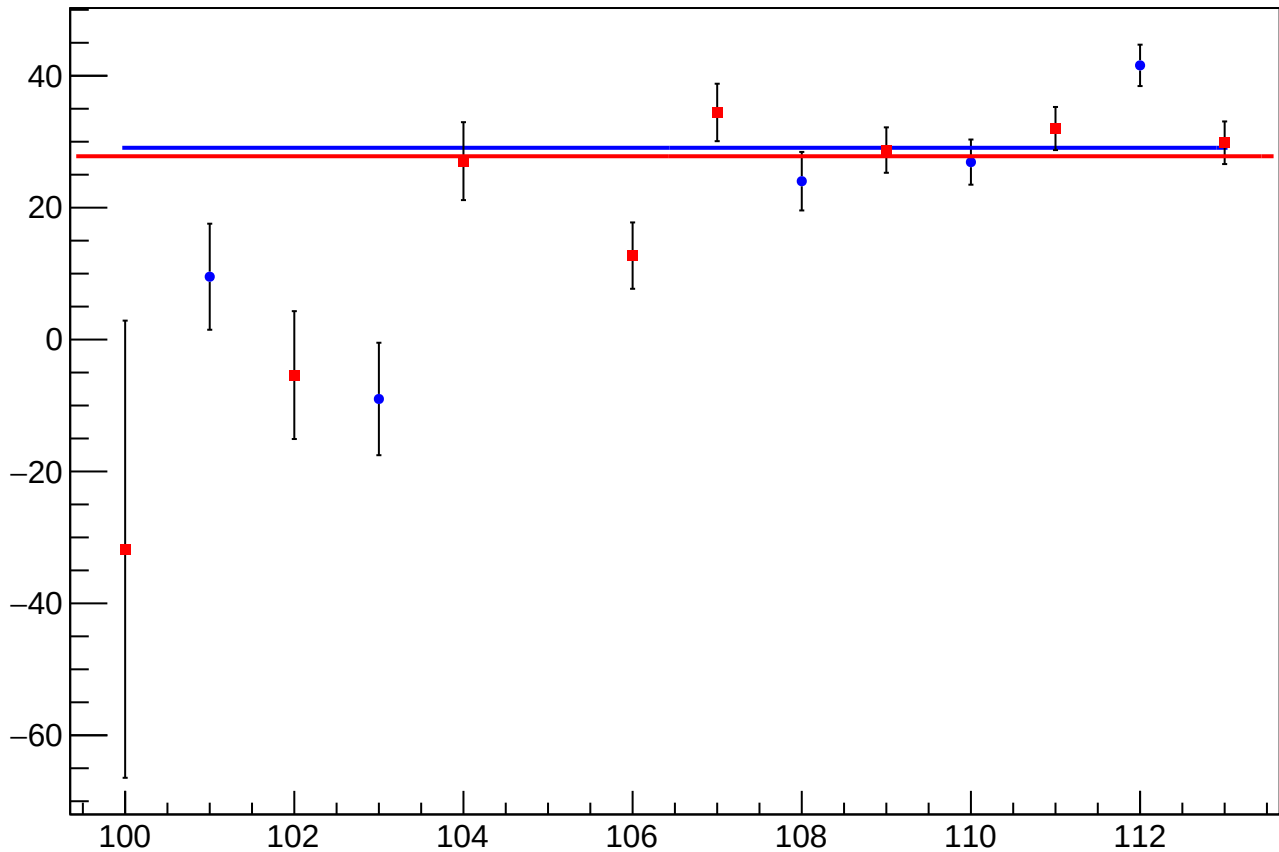
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $37.988 \pm 0.995$   $\chi^2/\text{NDF}: 1186.5/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 29.079+/-1.936  $\chi^2/\text{NDF}$ : 43.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27.795+/-1.569  $\chi^2/\text{NDF}$ : 28.1/7

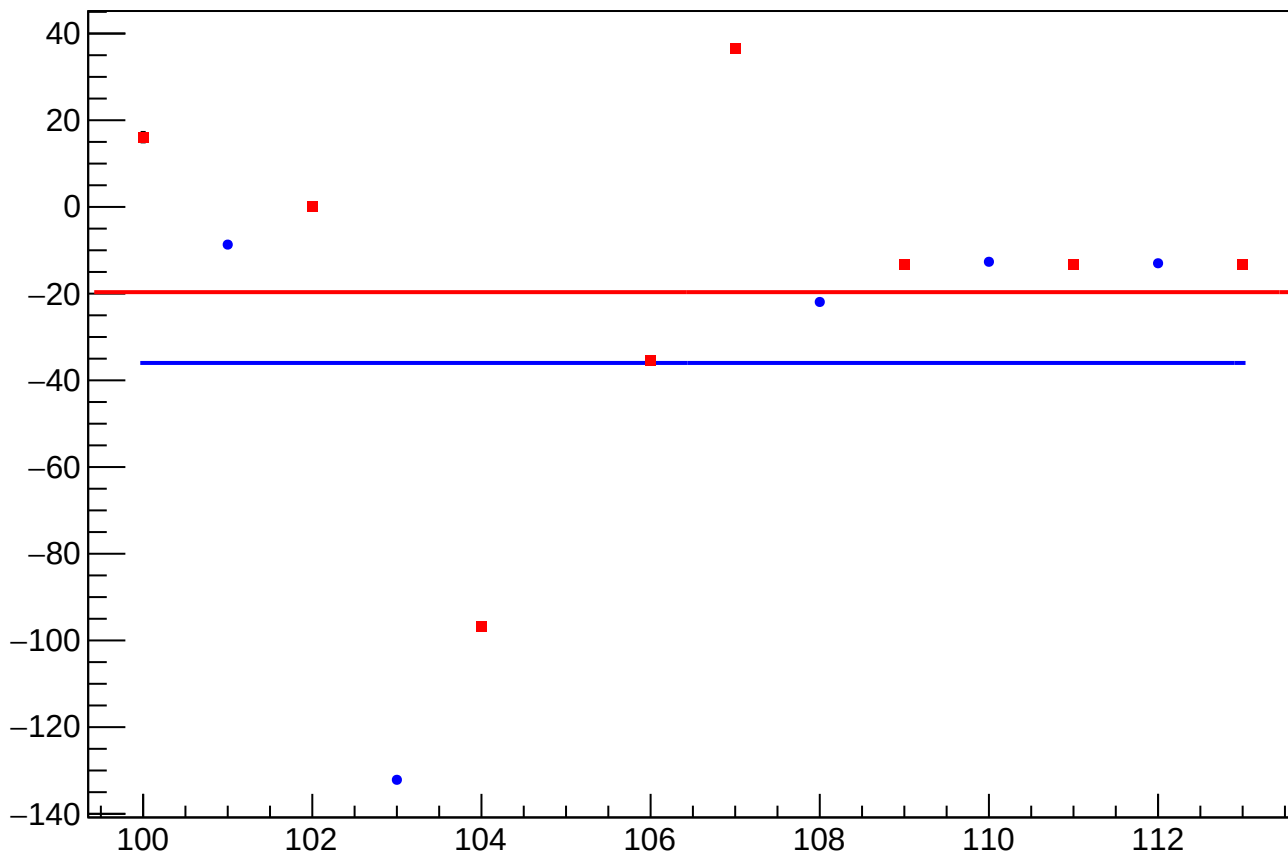
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.304+/-1.219  $\chi^2/\text{NDF}$ : 71.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-35.986 \pm 0.094$   $\chi^2/\text{NDF}$ : 210801.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-19.656 \pm 0.079$   $\chi^2/\text{NDF}$ : 202826.6/7

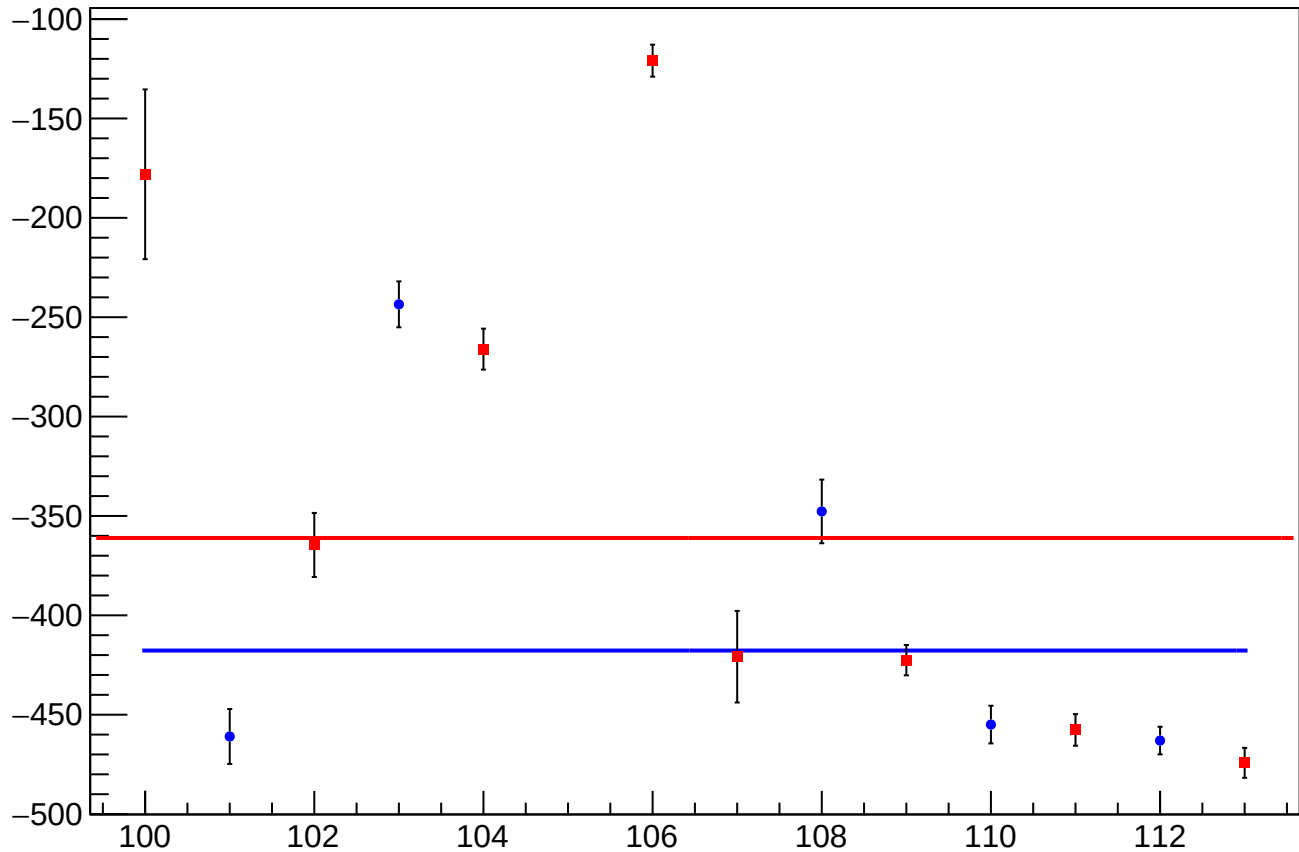
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-26.377 \pm 0.060$   $\chi^2/\text{NDF}$ : 431299.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -417.720+/-4.541  $\chi^2/\text{NDF}$ : 314.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -361.076+/-3.497  $\chi^2/\text{NDF}$ : 1438.7/7

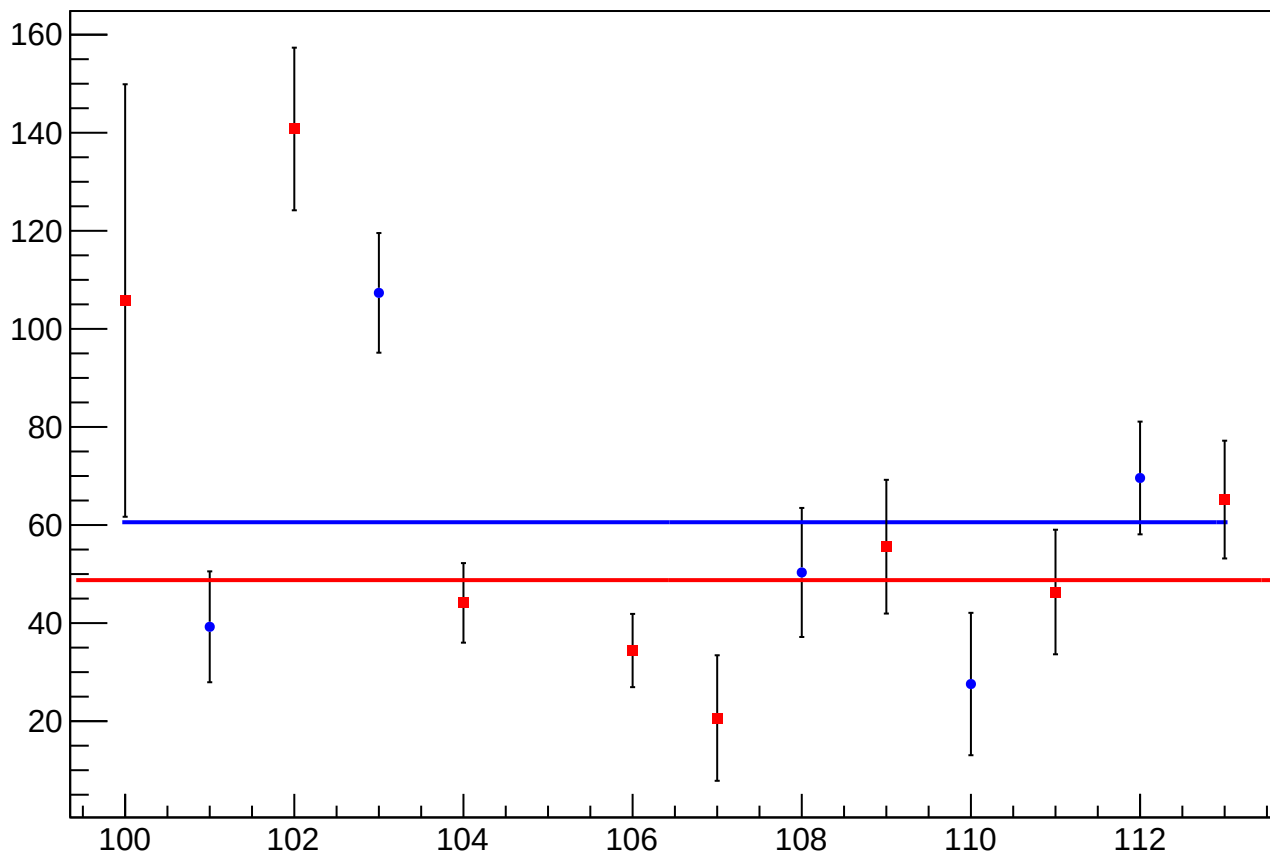
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -382.162+/-2.771  $\chi^2/\text{NDF}$ : 1850.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 60.571 $\pm$ 5.536  $\chi^2$ /NDF: 24.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.764 $\pm$ 4.020  $\chi^2$ /NDF: 43.5/7

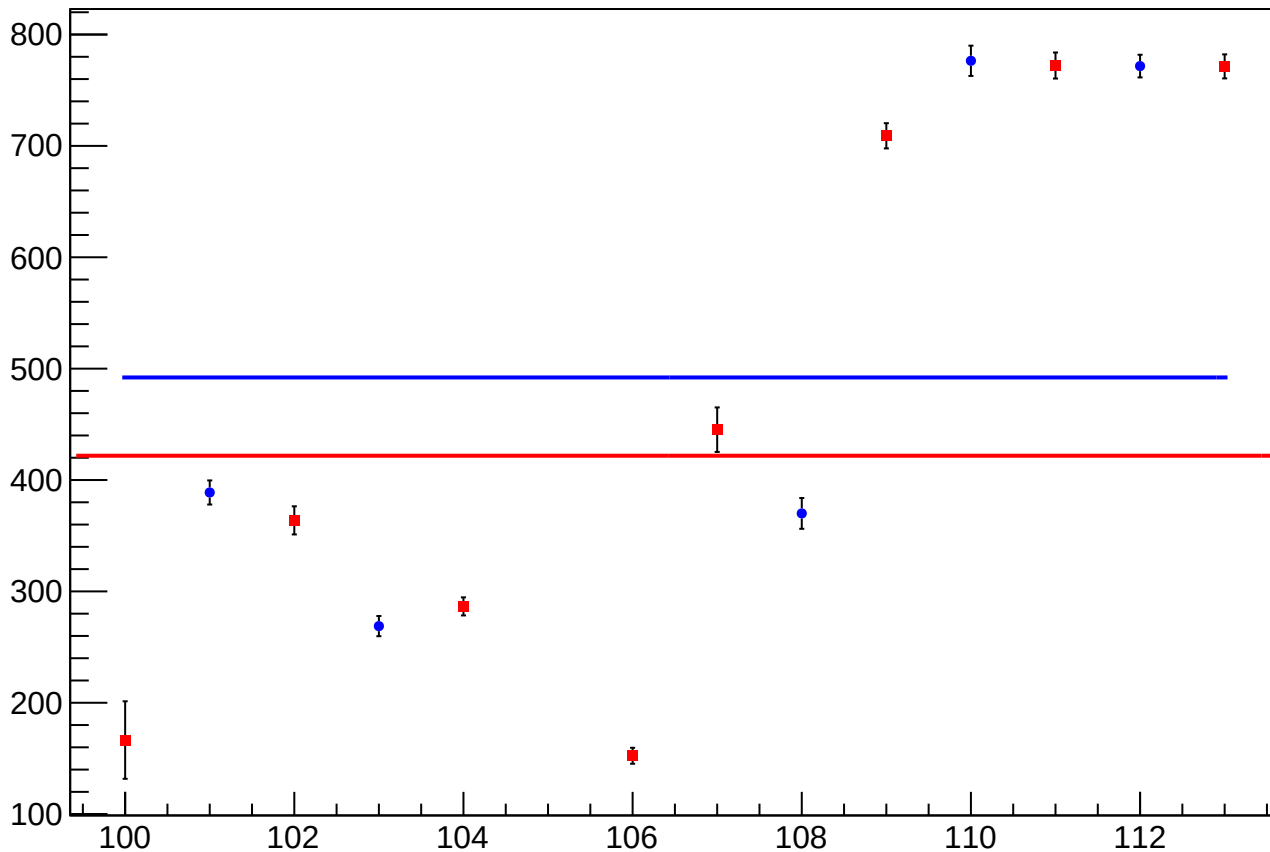
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 52.840 $\pm$ 3.253  $\chi^2$ /NDF: 71.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 492.093+/-4.936  $\chi^2/\text{NDF}$ : 1969.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 421.812+/-3.836  $\chi^2/\text{NDF}$ : 4360.5/7

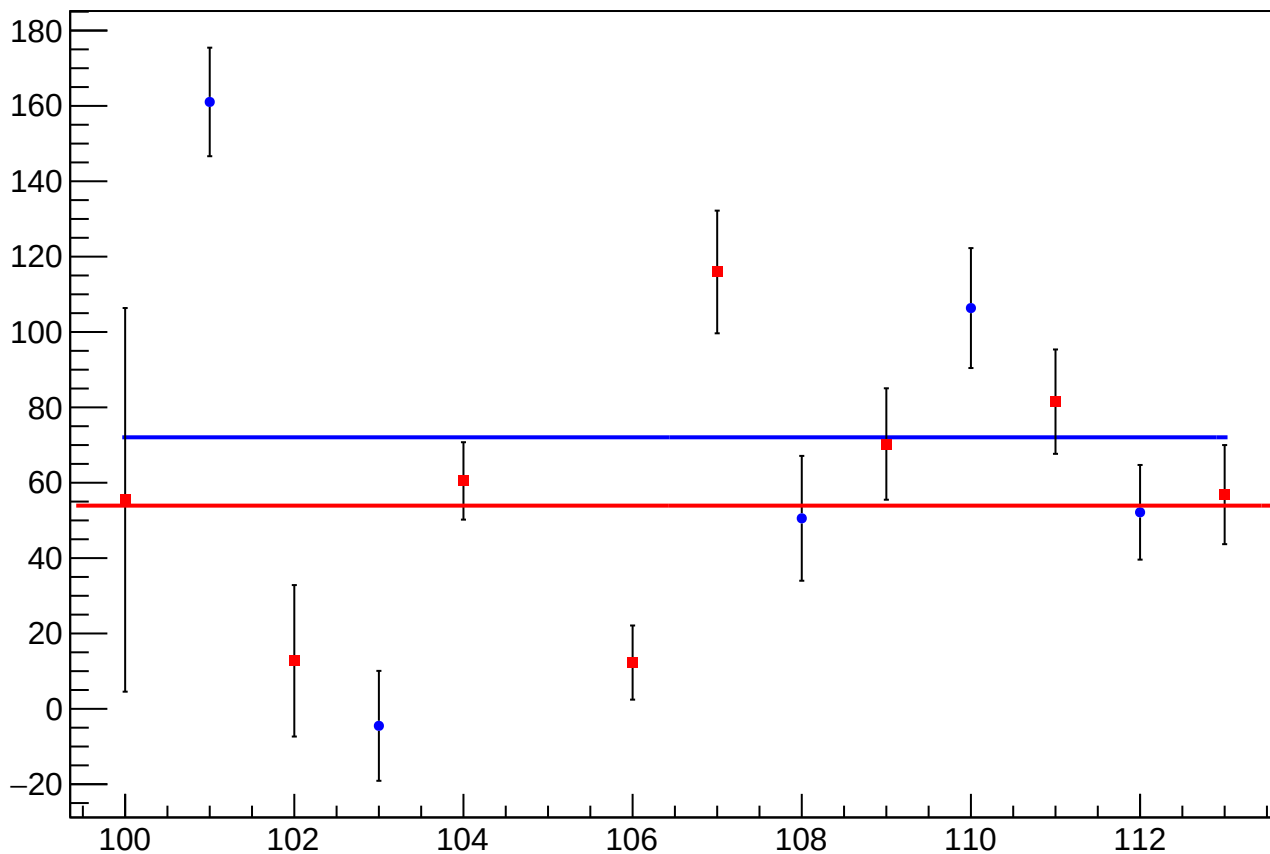
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 448.274+/-3.029  $\chi^2/\text{NDF}$ : 6456.2/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 72.056 $\pm$ 6.530  $\chi^2$ /NDF: 74.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 53.926 $\pm$ 4.878  $\chi^2$ /NDF: 42.3/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

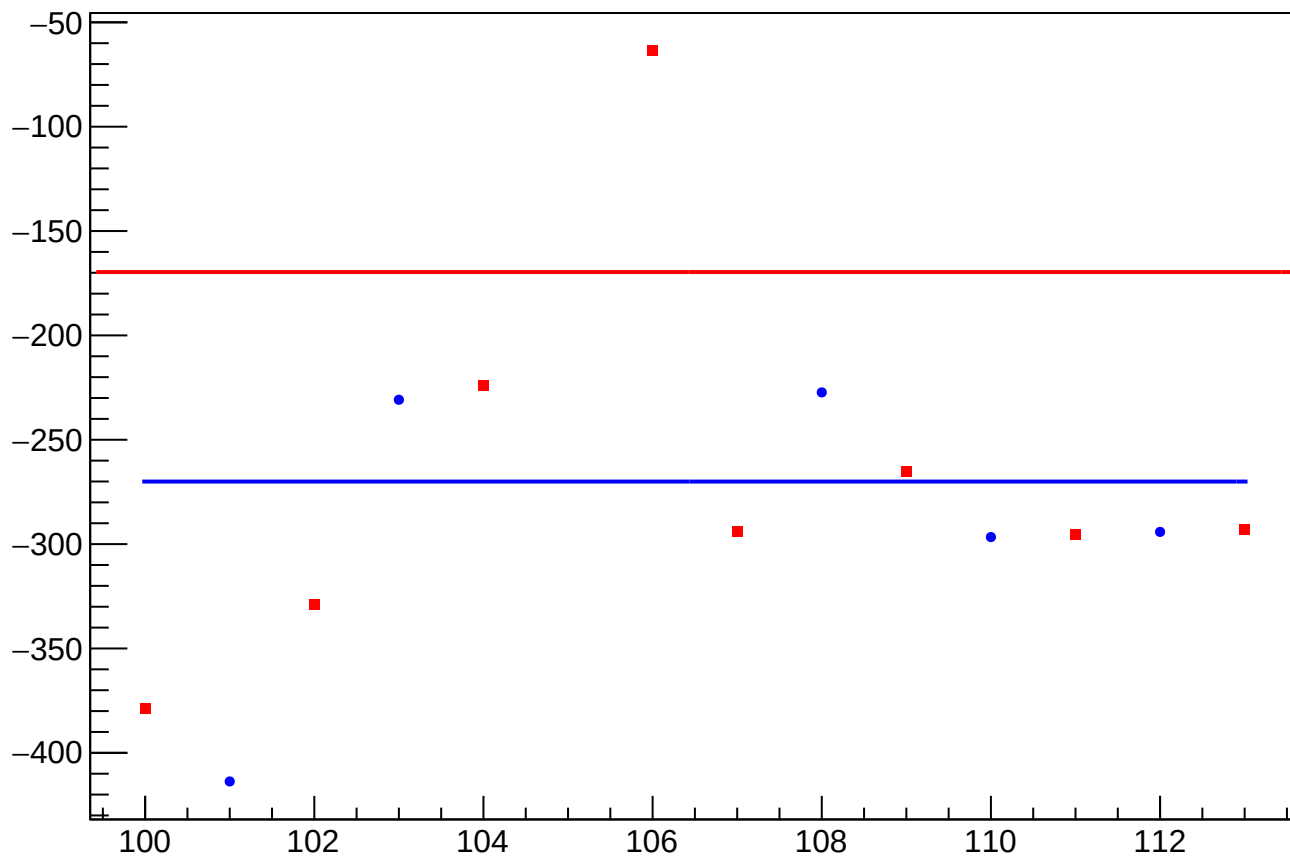
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 60.420 $\pm$ 3.908  $\chi^2$ /NDF: 121.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -270.031+/-0.260  $\chi^2/\text{NDF}$ : 67282.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -169.648+/-0.179  $\chi^2/\text{NDF}$ : 369206.4/7

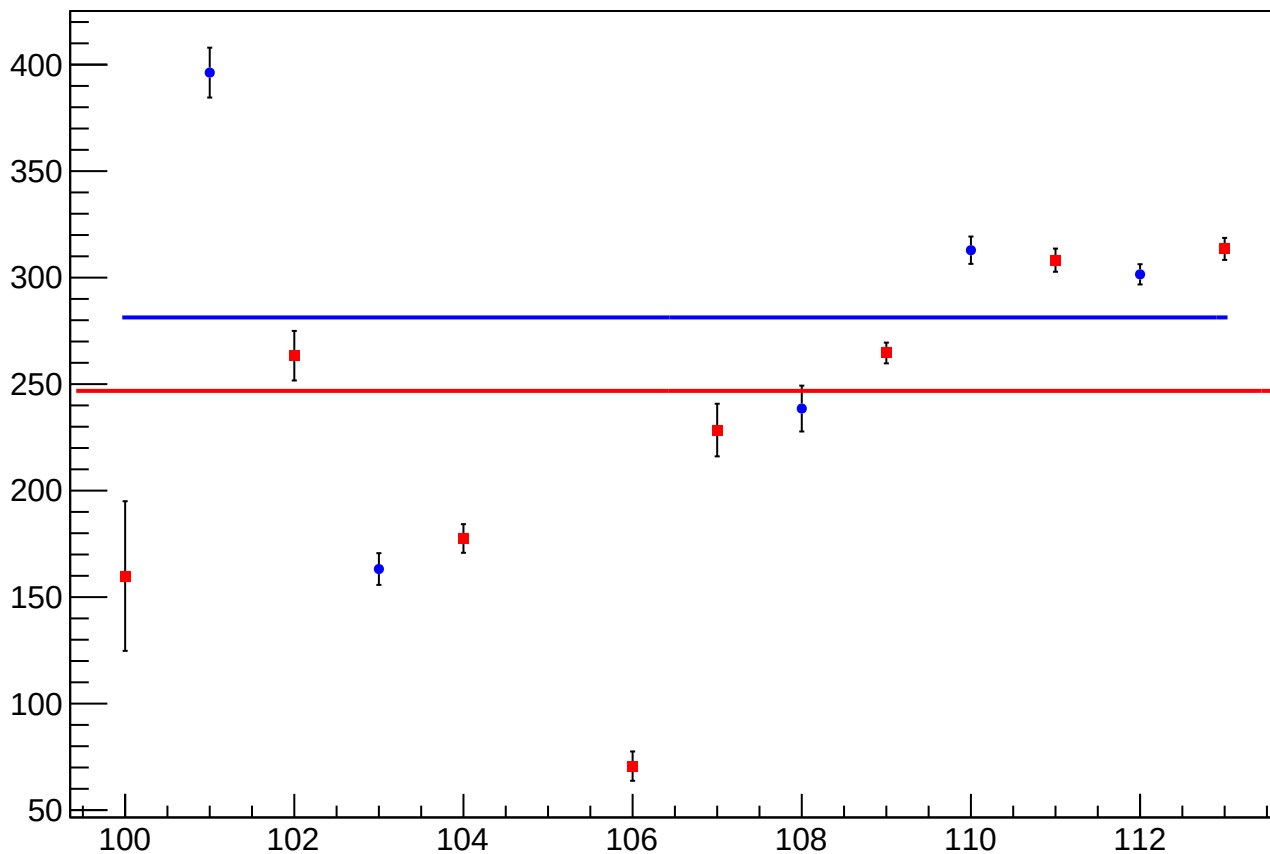
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -201.926+/-0.148  $\chi^2/\text{NDF}$ : 537525.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 281.313 $\pm$ 3.125  $\chi^2$ /NDF: 405.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 246.825 $\pm$ 2.415  $\chi^2$ /NDF: 1078.2/7

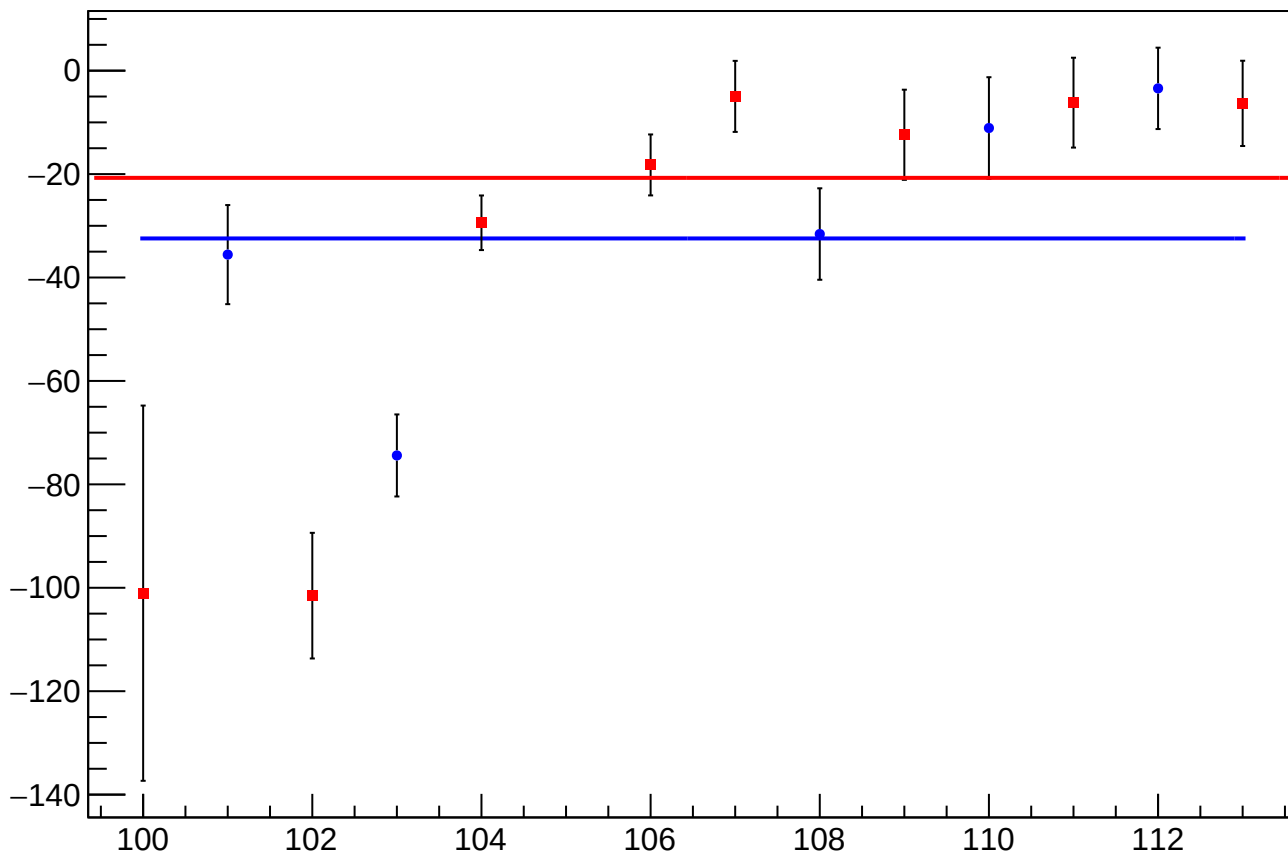
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 259.722 $\pm$ 1.911  $\chi^2$ /NDF: 1560.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -32.445 $\pm$ 3.890  $\chi^2$ /NDF: 46.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -20.729 $\pm$ 2.727  $\chi^2$ /NDF: 64.0/7

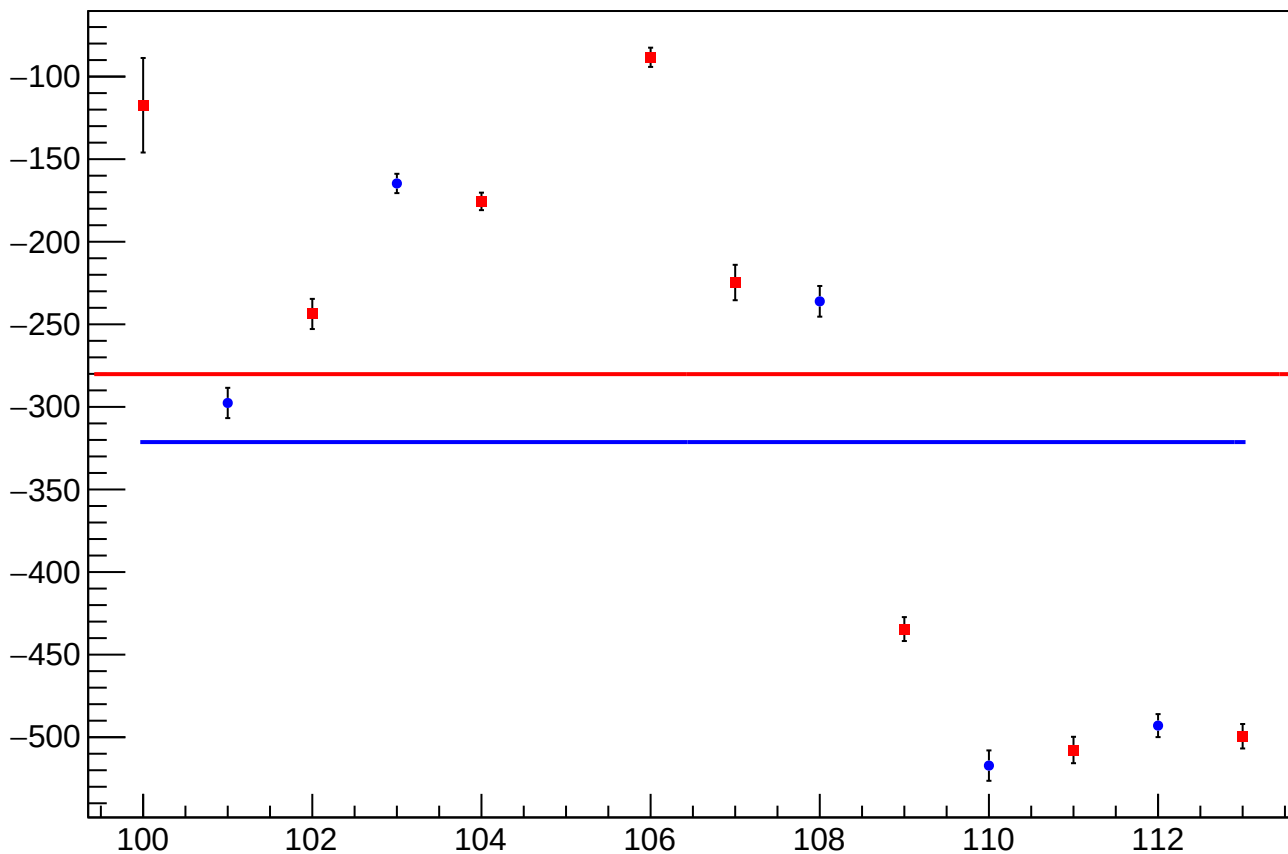
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -24.589 $\pm$ 2.233  $\chi^2$ /NDF: 116.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -321.303+/-3.426  $\chi^2/\text{NDF}$ : 1869.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -280.164+/-2.673  $\chi^2/\text{NDF}$ : 3690.1/7

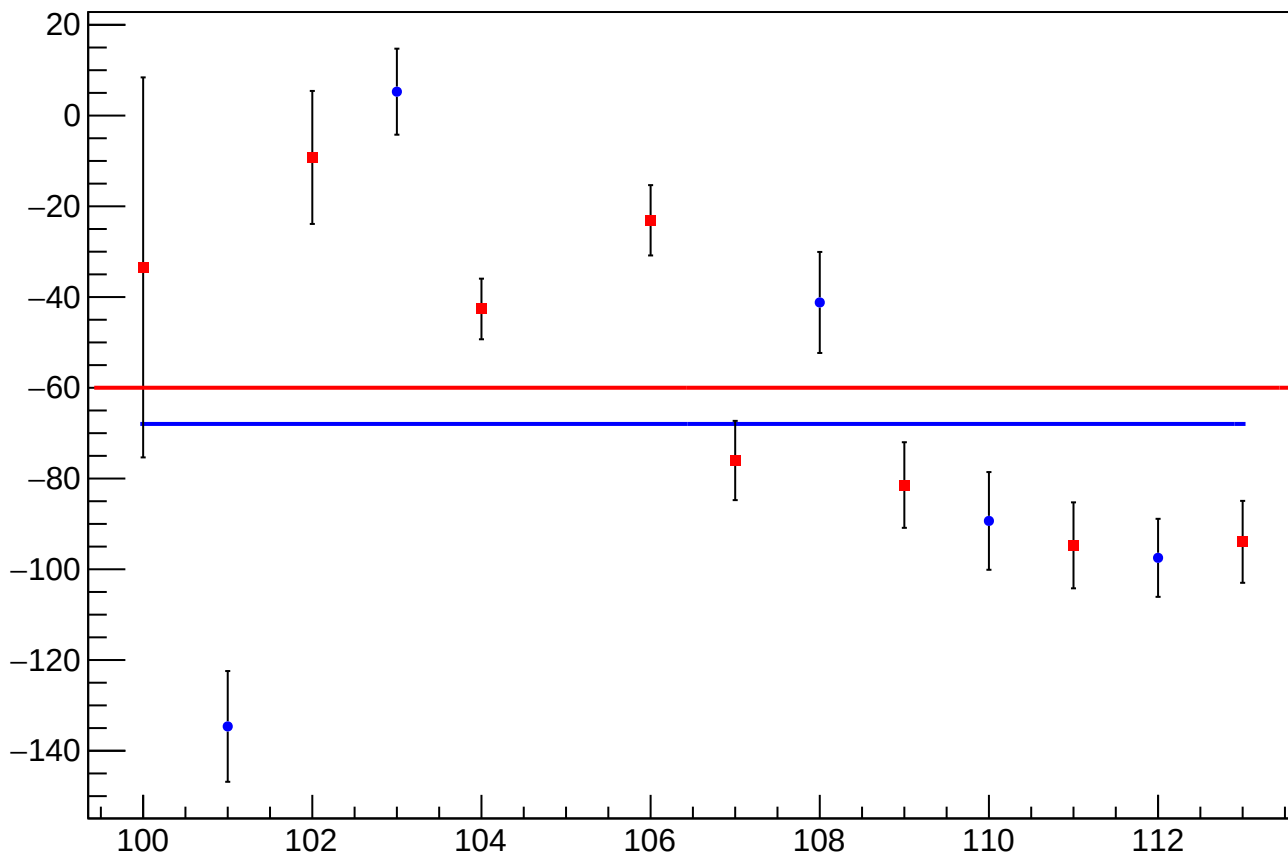
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -295.727+/-2.107  $\chi^2/\text{NDF}$ : 5649.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-67.965 \pm 4.562$   $\chi^2/\text{NDF}$ : 111.0/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-59.987 \pm 3.296$   $\chi^2/\text{NDF}$ : 78.0/7

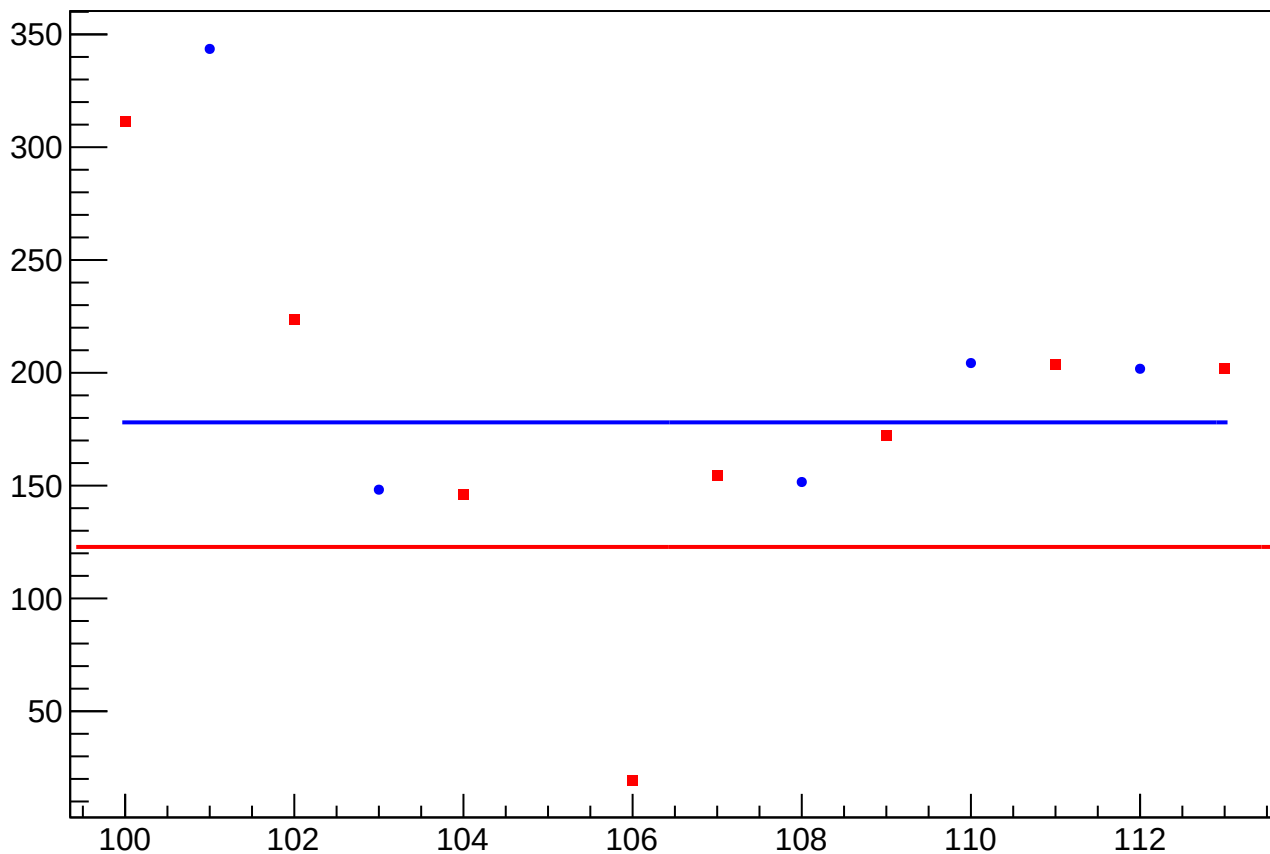
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-62.723 \pm 2.672$   $\chi^2/\text{NDF}$ : 191.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 178.035 $\pm$ 0.177  $\chi^2$ /NDF: 114187.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 122.824 $\pm$ 0.134  $\chi^2$ /NDF: 339870.4/7

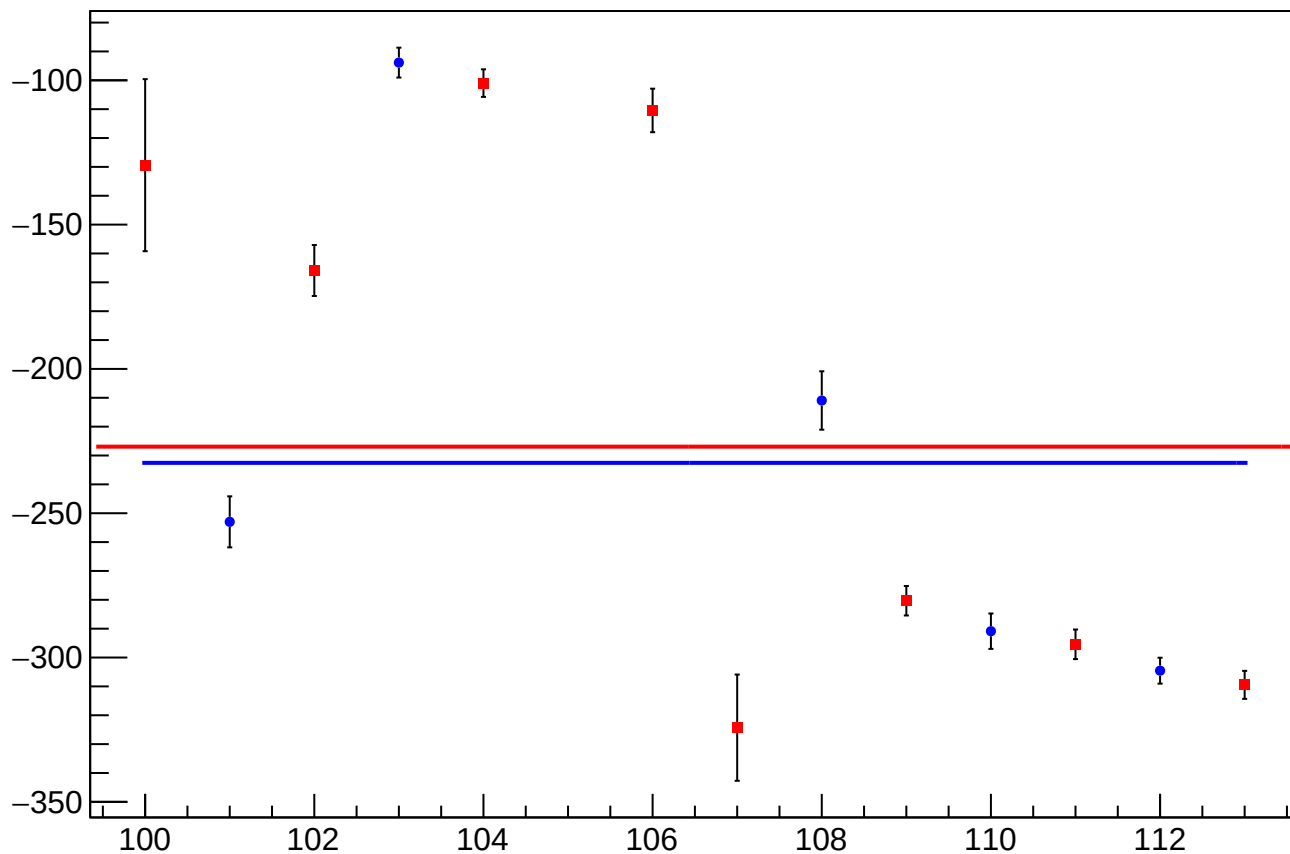
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 142.995 $\pm$ 0.107  $\chi^2$ /NDF: 515804.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -232.544 $\pm$ 2.710  $\chi^2$ /NDF: 1075.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -226.928 $\pm$ 2.251  $\chi^2$ /NDF: 1598.3/7

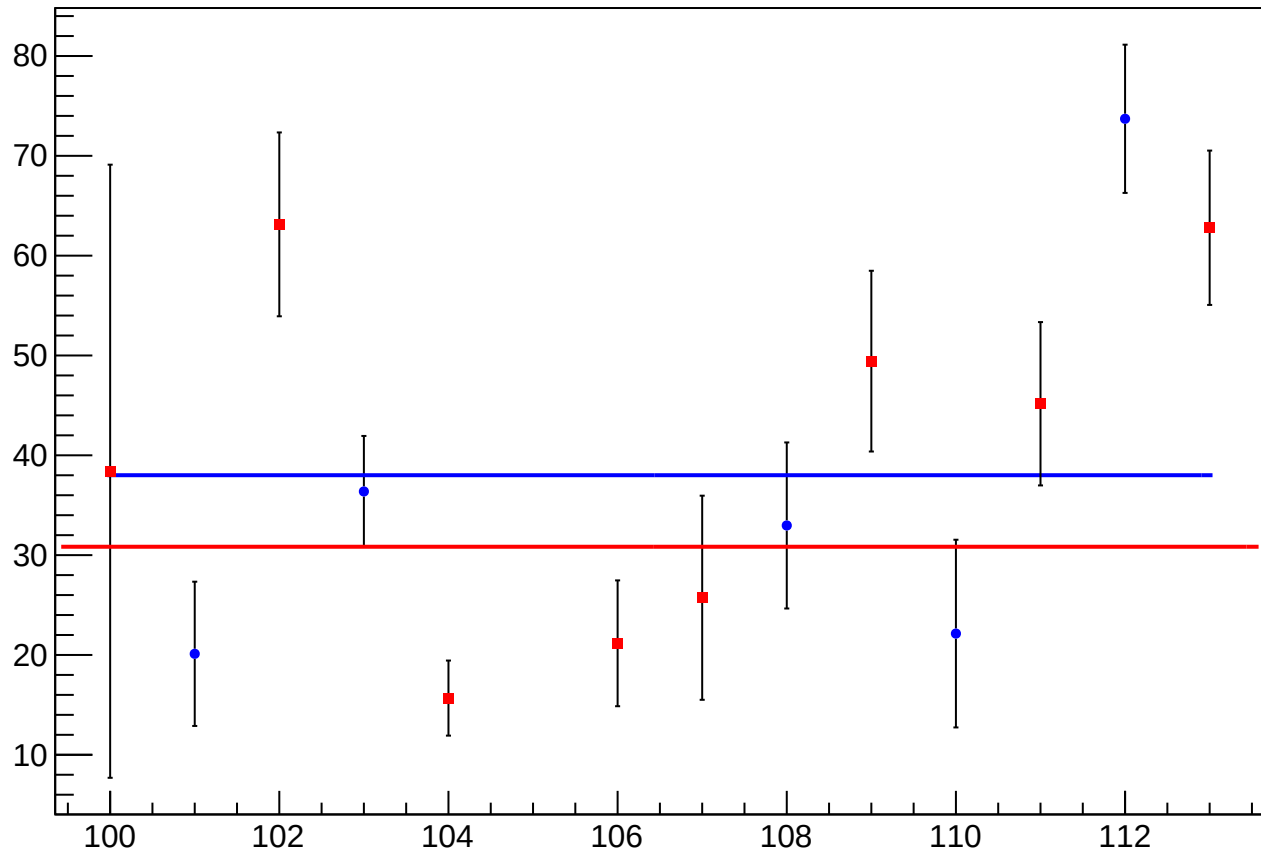
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -229.220 $\pm$ 1.732  $\chi^2$ /NDF: 2676.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 38.007 $\pm$ 3.238  $\chi^2$ /NDF: 32.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 30.840 $\pm$ 2.483  $\chi^2$ /NDF: 55.6/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

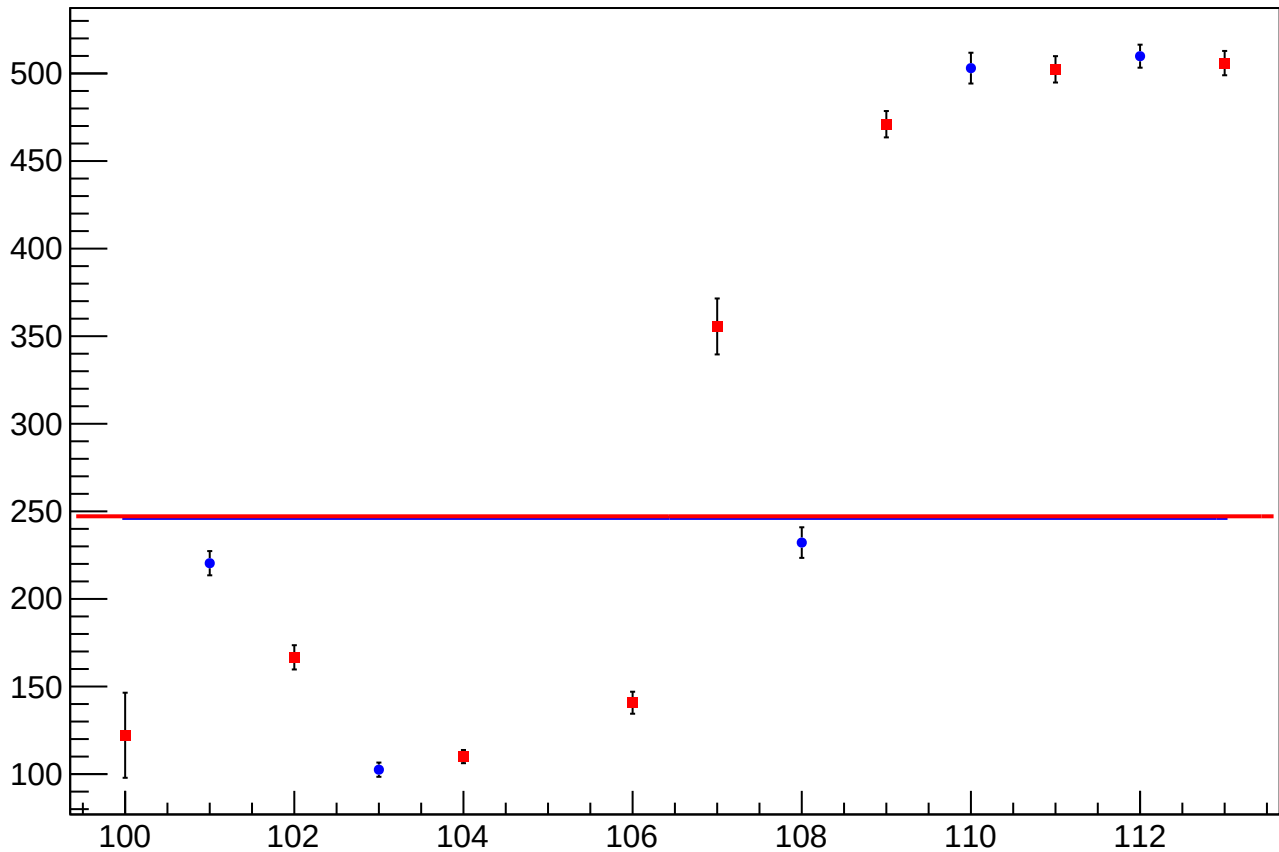
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.494 $\pm$ 1.970  $\chi^2$ /NDF: 91.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 246.269+/-2.767  $\chi^2/\text{NDF}$ : 3728.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 247.173+/-2.368  $\chi^2/\text{NDF}$ : 5242.6/7

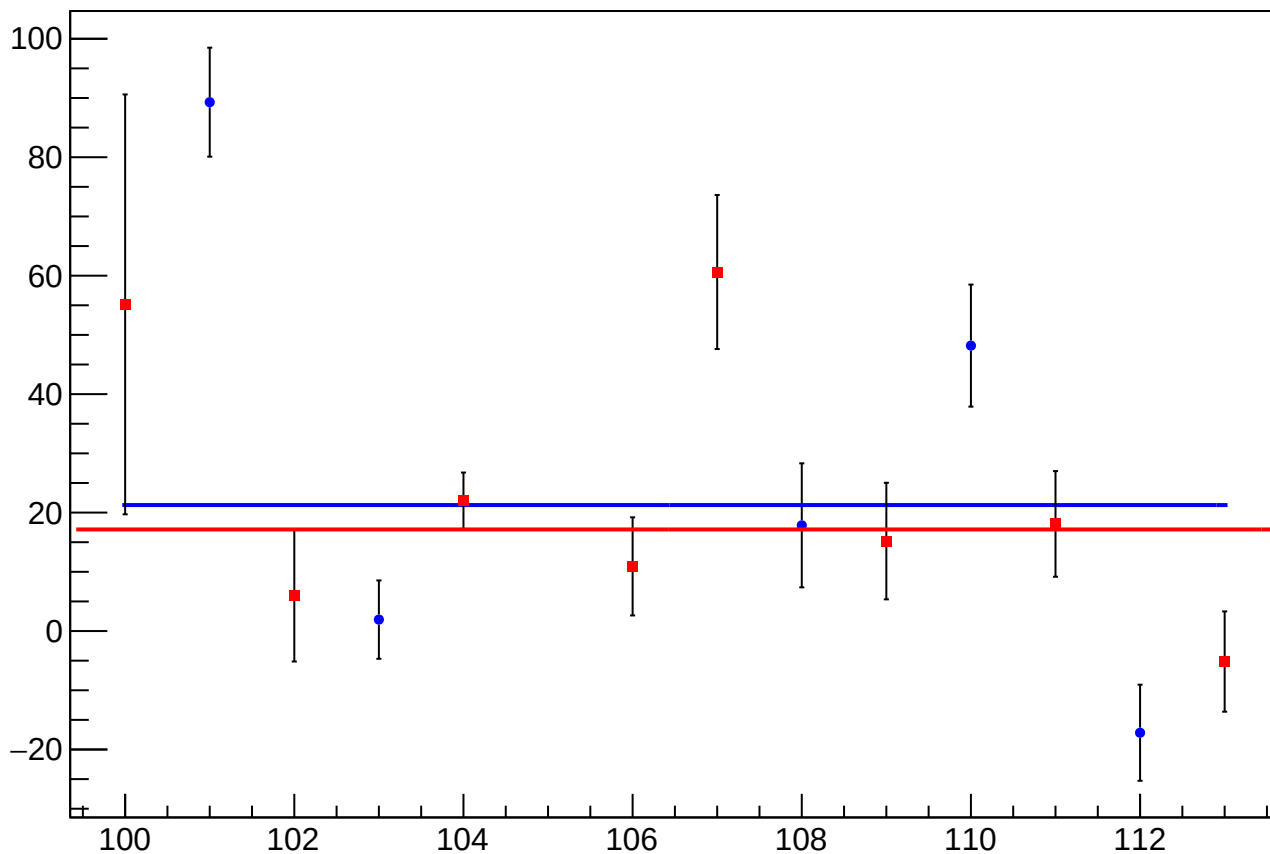
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 246.790+/-1.799  $\chi^2/\text{NDF}$ : 8971.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 21.270 $\pm$ 3.824  $\chi^2$ /NDF: 92.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.153 $\pm$ 3.010  $\chi^2$ /NDF: 21.9/7

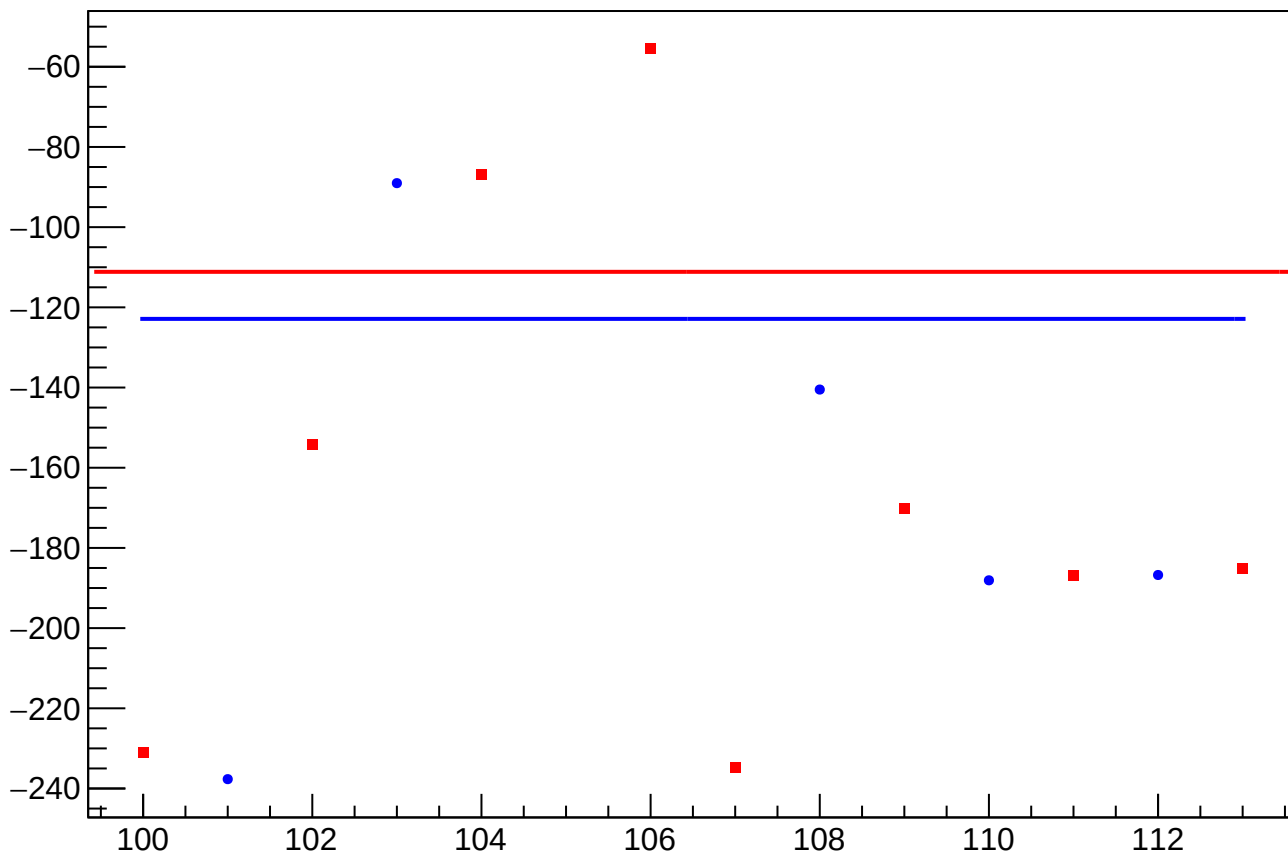
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.728 $\pm$ 2.365  $\chi^2$ /NDF: 115.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -122.876+/-0.136  $\chi^2/\text{NDF}$ : 143284.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -111.141+/-0.120  $\chi^2/\text{NDF}$ : 179703.4/7

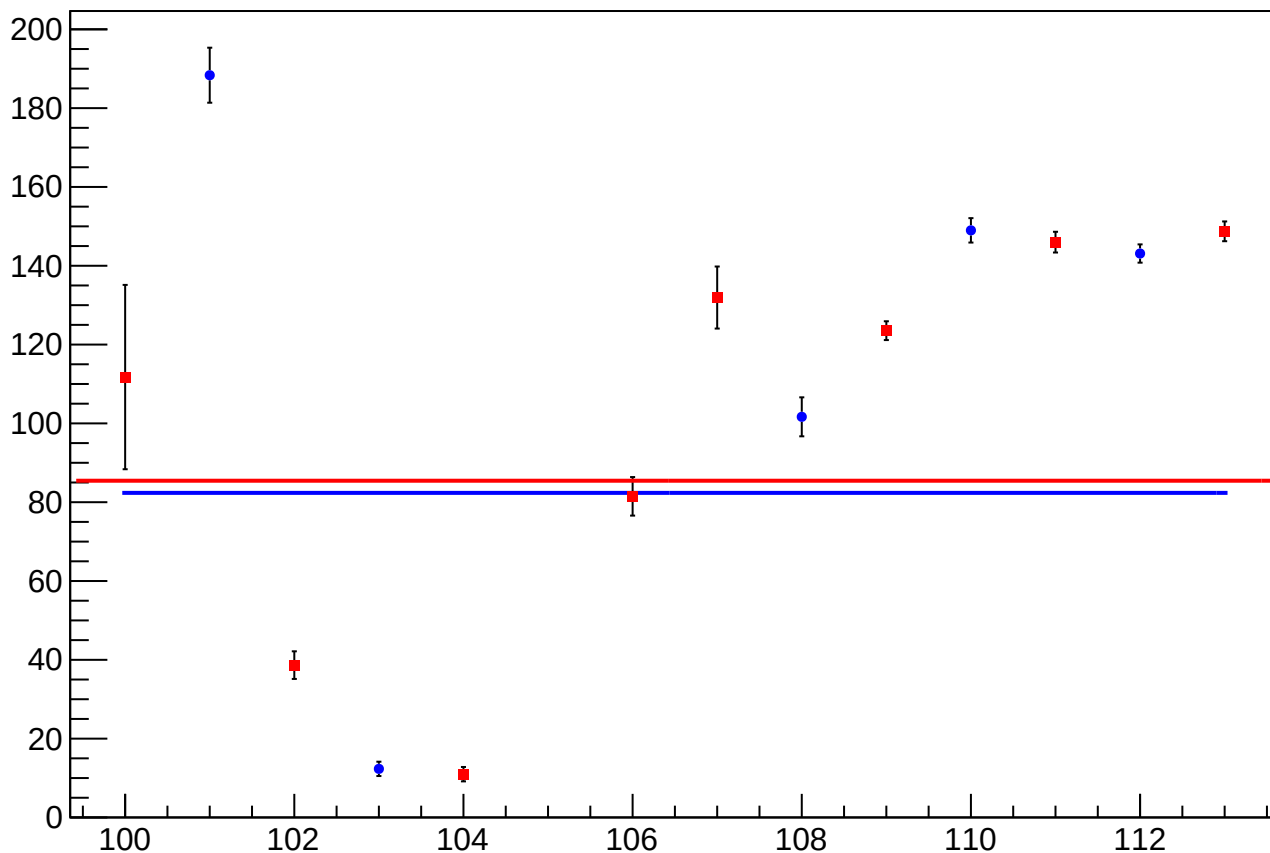
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -116.259+/-0.090  $\chi^2/\text{NDF}$ : 327189.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 82.367 $\pm$ 1.236  $\chi^2$ /NDF: 2879.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 85.451 $\pm$ 1.043  $\chi^2$ /NDF: 3296.7/7

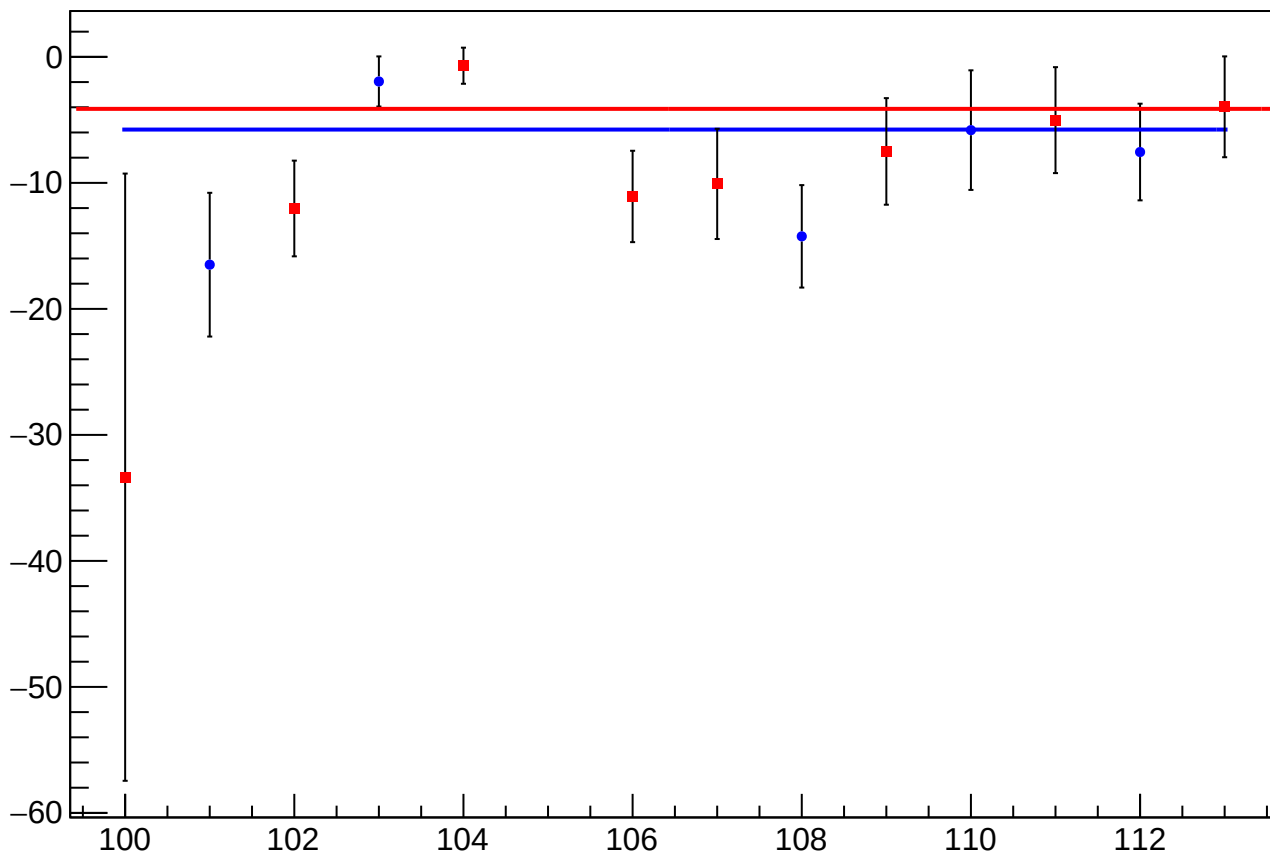
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 84.169 $\pm$ 0.797  $\chi^2$ /NDF: 6180.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -5.769+/-1.480  $\chi^2/\text{NDF}$ : 11.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.126+/-1.077  $\chi^2/\text{NDF}$ : 17.7/7

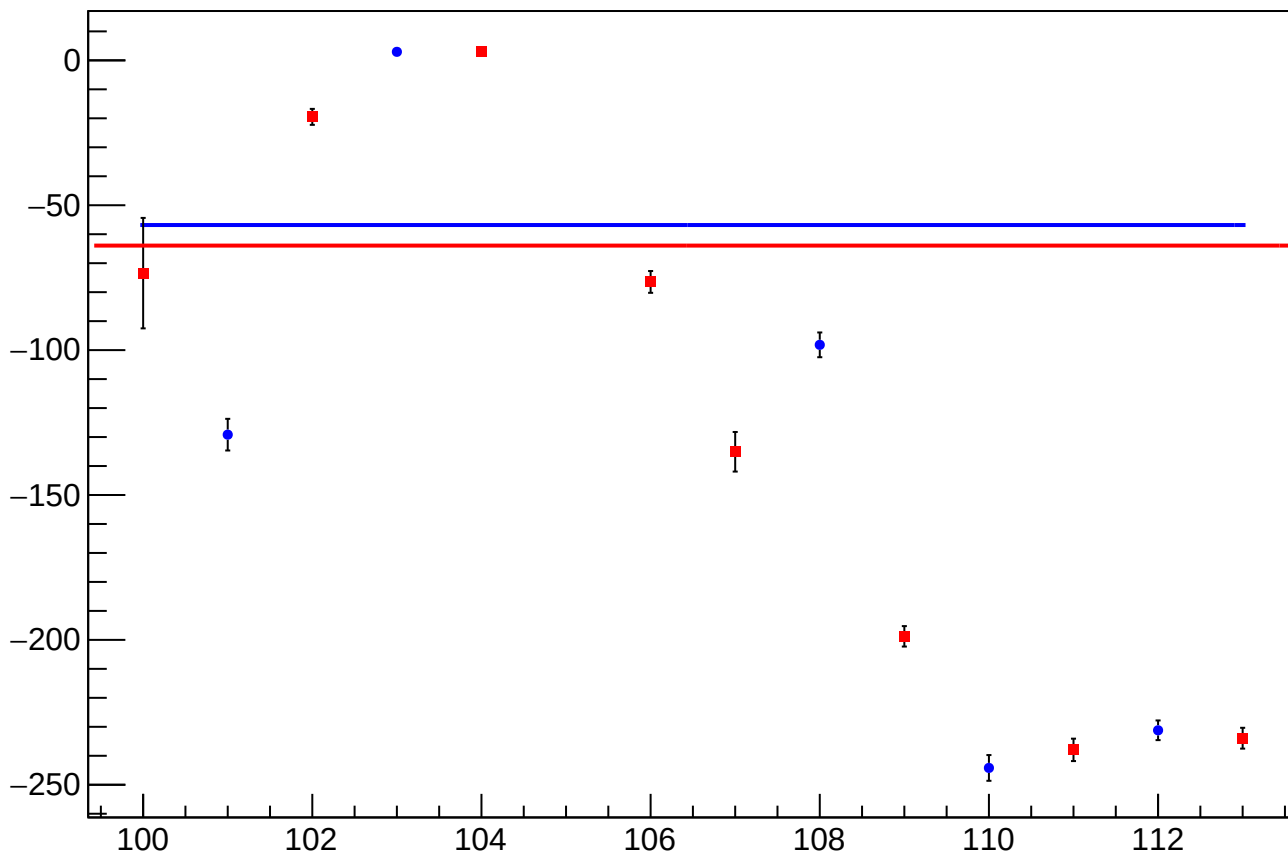
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.695+/-0.871  $\chi^2/\text{NDF}$ : 30.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -56.830+/-1.182  $\chi^2/\text{NDF}$ : 6439.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -63.926+/-1.035  $\chi^2/\text{NDF}$ : 8255.2/7

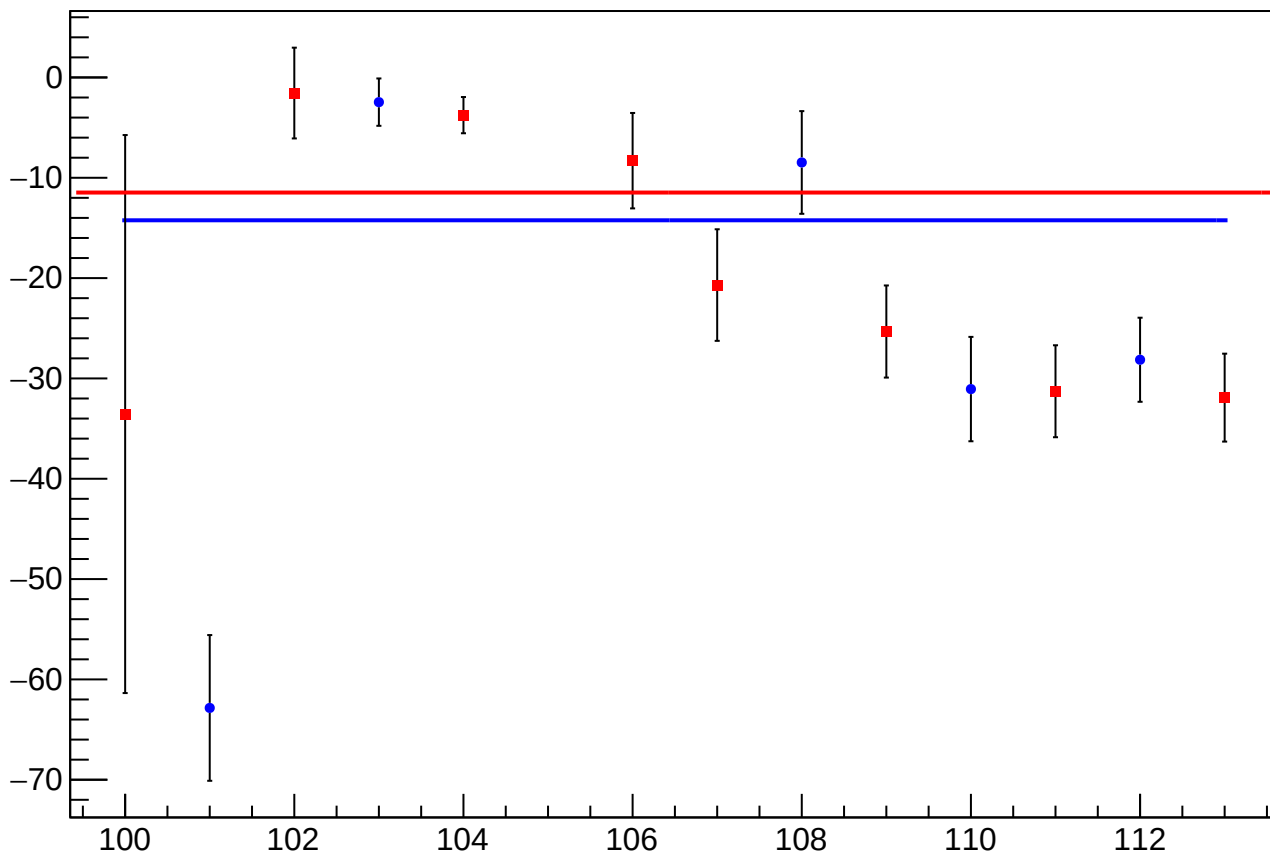
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -60.844+/-0.779  $\chi^2/\text{NDF}$ : 14715.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -14.238+/-1.739  $\chi^2/\text{NDF}$ : 92.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11.472+/-1.312  $\chi^2/\text{NDF}$ : 76.4/7

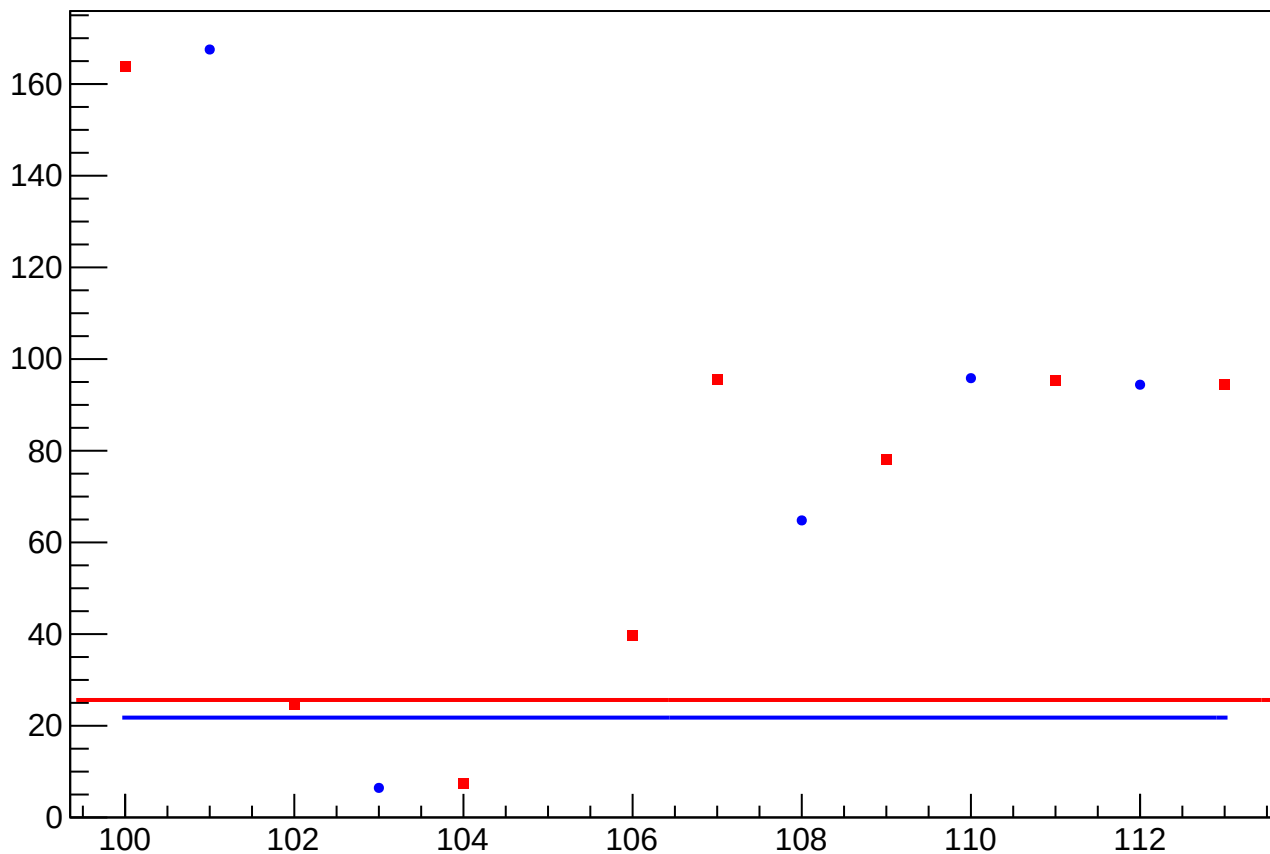
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12.476+/-1.048  $\chi^2/\text{NDF}$ : 170.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 21.783+/-0.054  $\chi^2/\text{NDF}$ : 443342.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.627+/-0.052  $\chi^2/\text{NDF}$ : 323198.6/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

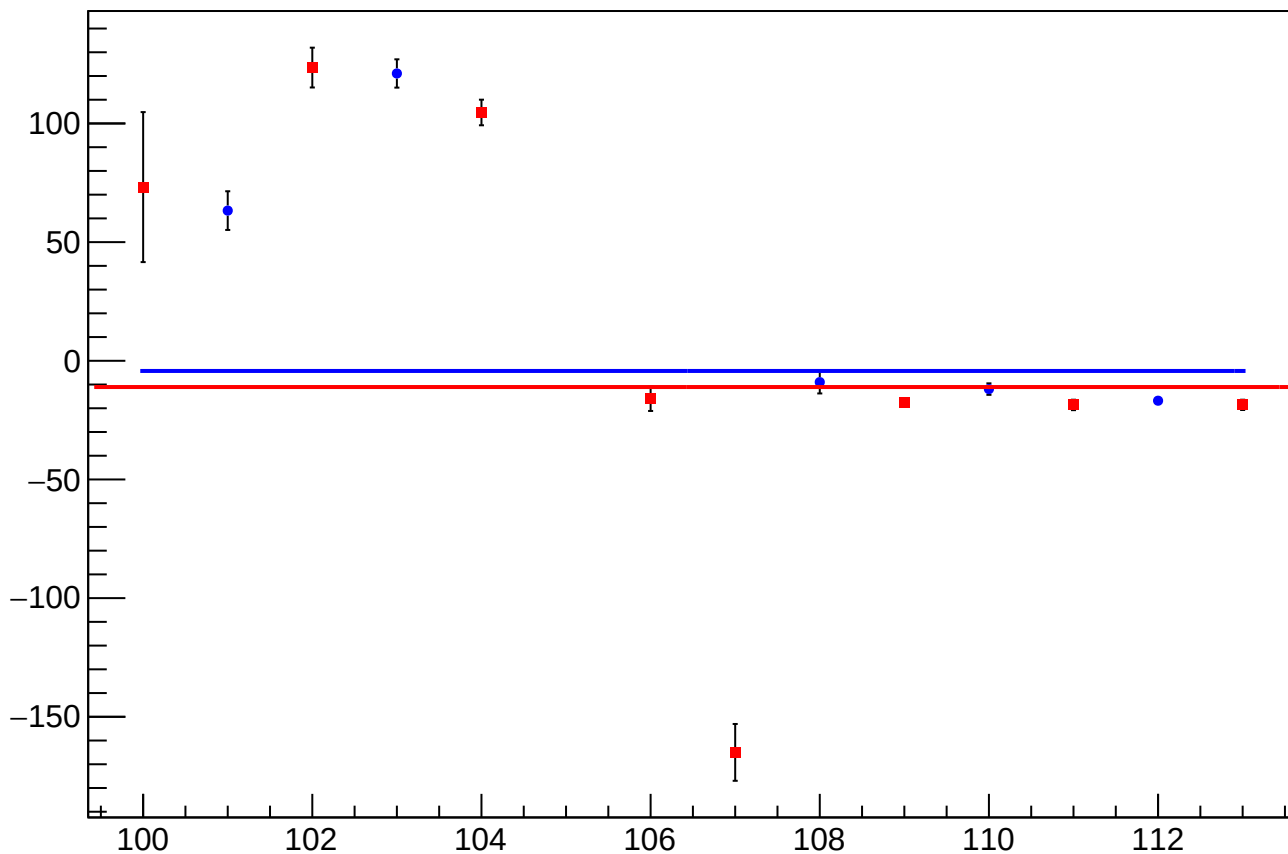
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.766+/-0.037  $\chi^2/\text{NDF}$ : 769190.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_us\_dd\_at1lr\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -4.280 $\pm$ 1.415  $\chi^2$ /NDF: 559.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -11.054 $\pm$ 1.157  $\chi^2$ /NDF: 924.9/7

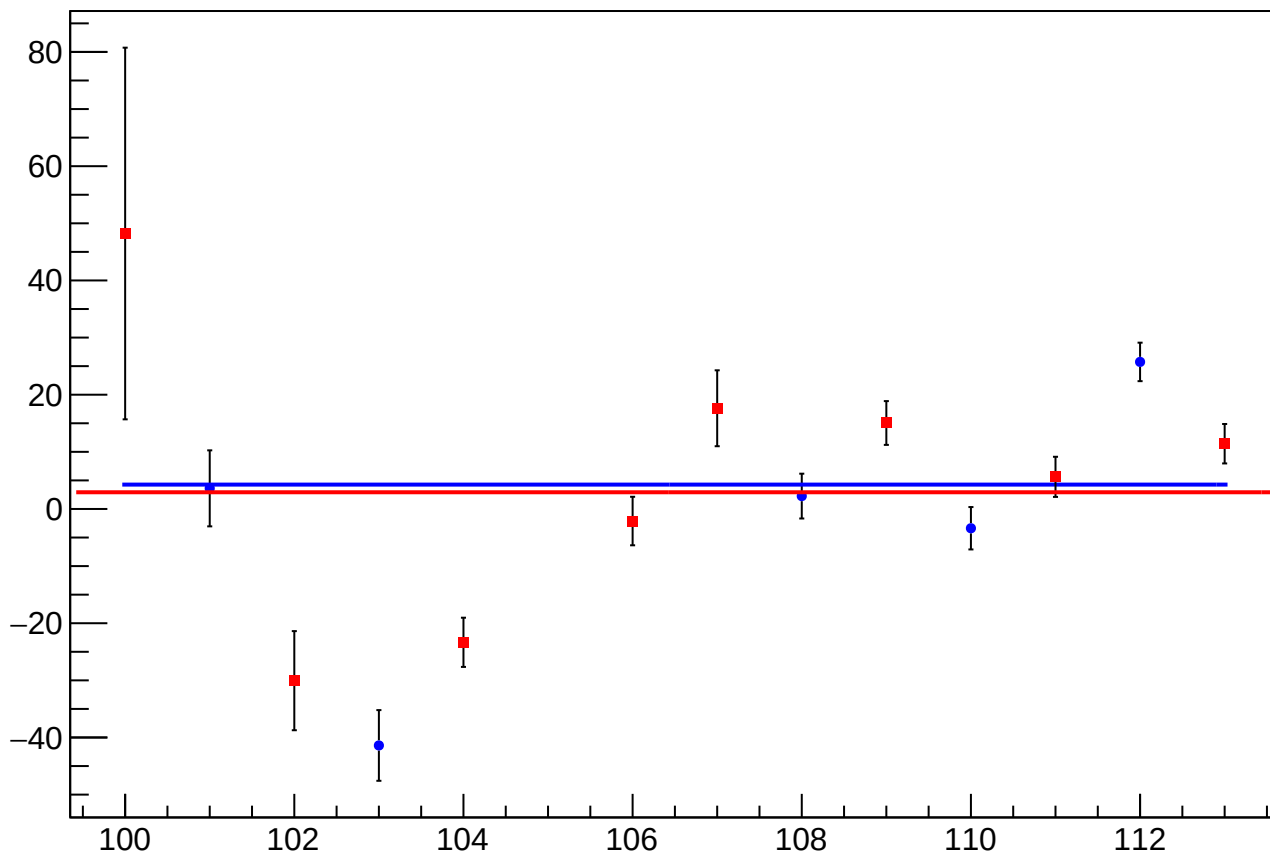
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -8.340 $\pm$ 0.896  $\chi^2$ /NDF: 1498.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 4.266+/-1.909  $\chi^2/\text{NDF}$ : 99.6/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.924+/-1.624  $\chi^2/\text{NDF}$ : 76.5/7

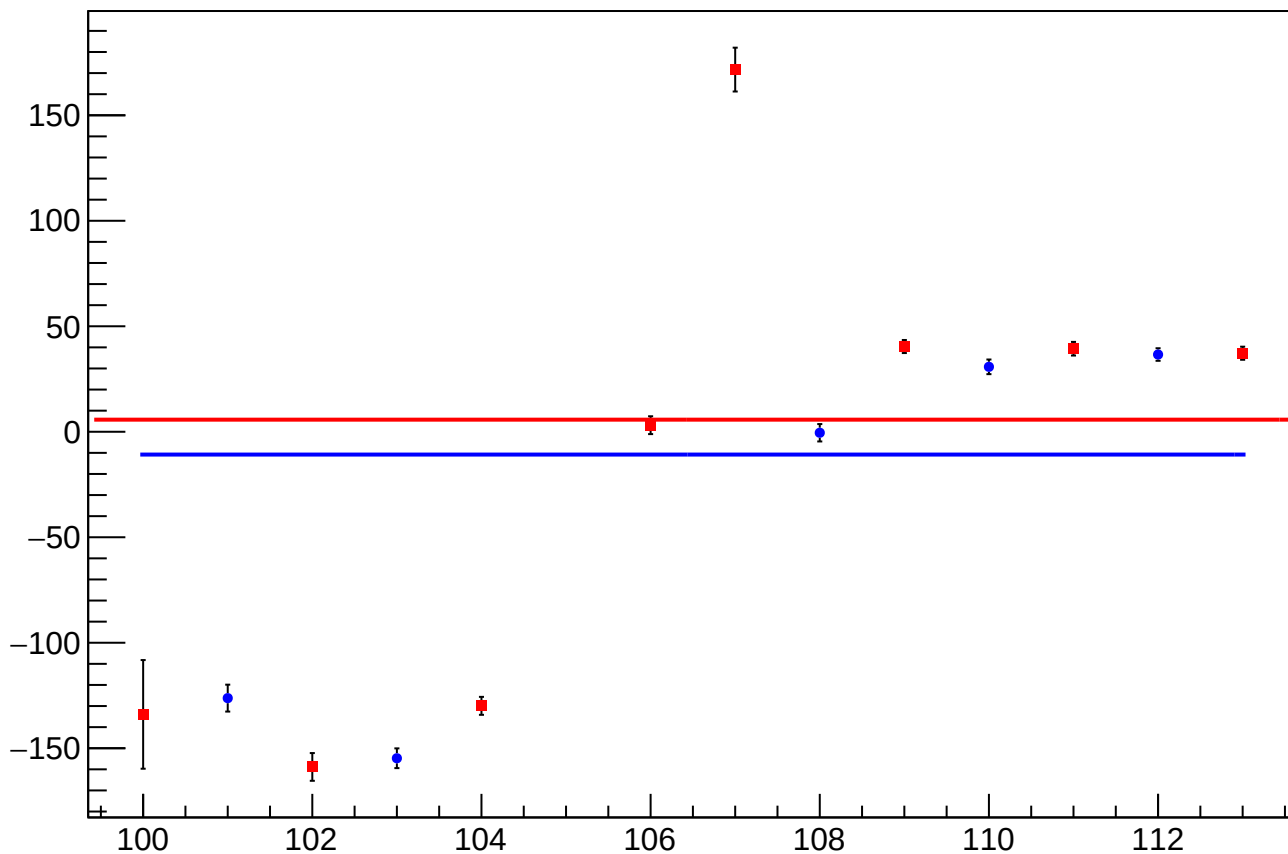
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.487+/-1.237  $\chi^2/\text{NDF}$ : 176.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -10.808 $\pm$ 1.754  $\chi^2$ /NDF: 1678.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.737 $\pm$ 1.492  $\chi^2$ /NDF: 2264.5/7

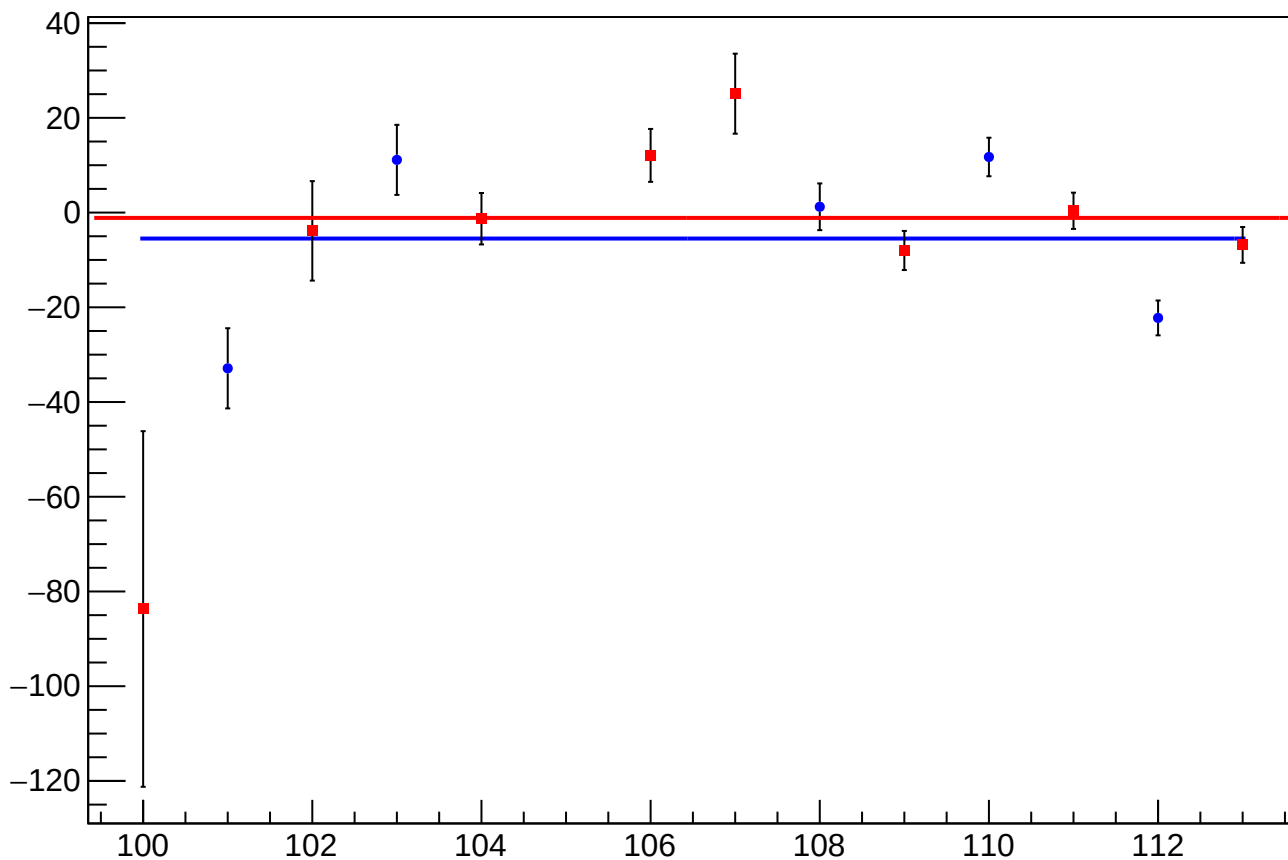
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.207 $\pm$ 1.136  $\chi^2$ /NDF: 3994.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -5.484+/-2.194  $\chi^2/\text{NDF}$ : 56.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.123+/-1.868  $\chi^2/\text{NDF}$ : 25.3/7

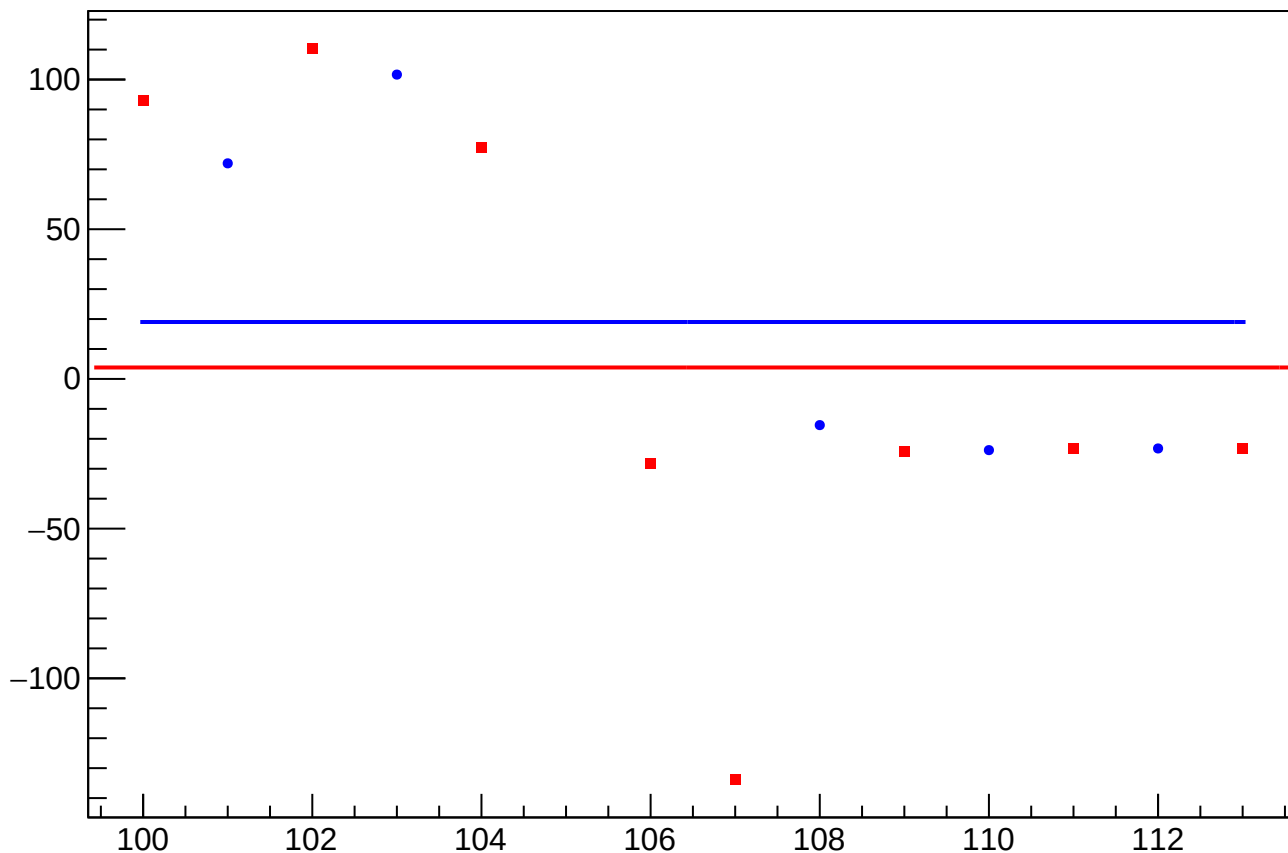
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.955+/-1.422  $\chi^2/\text{NDF}$ : 83.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 19.013+/-0.101  $\chi^2/\text{NDF}$ : 294014.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.824+/-0.090  $\chi^2/\text{NDF}$ : 446094.0/7

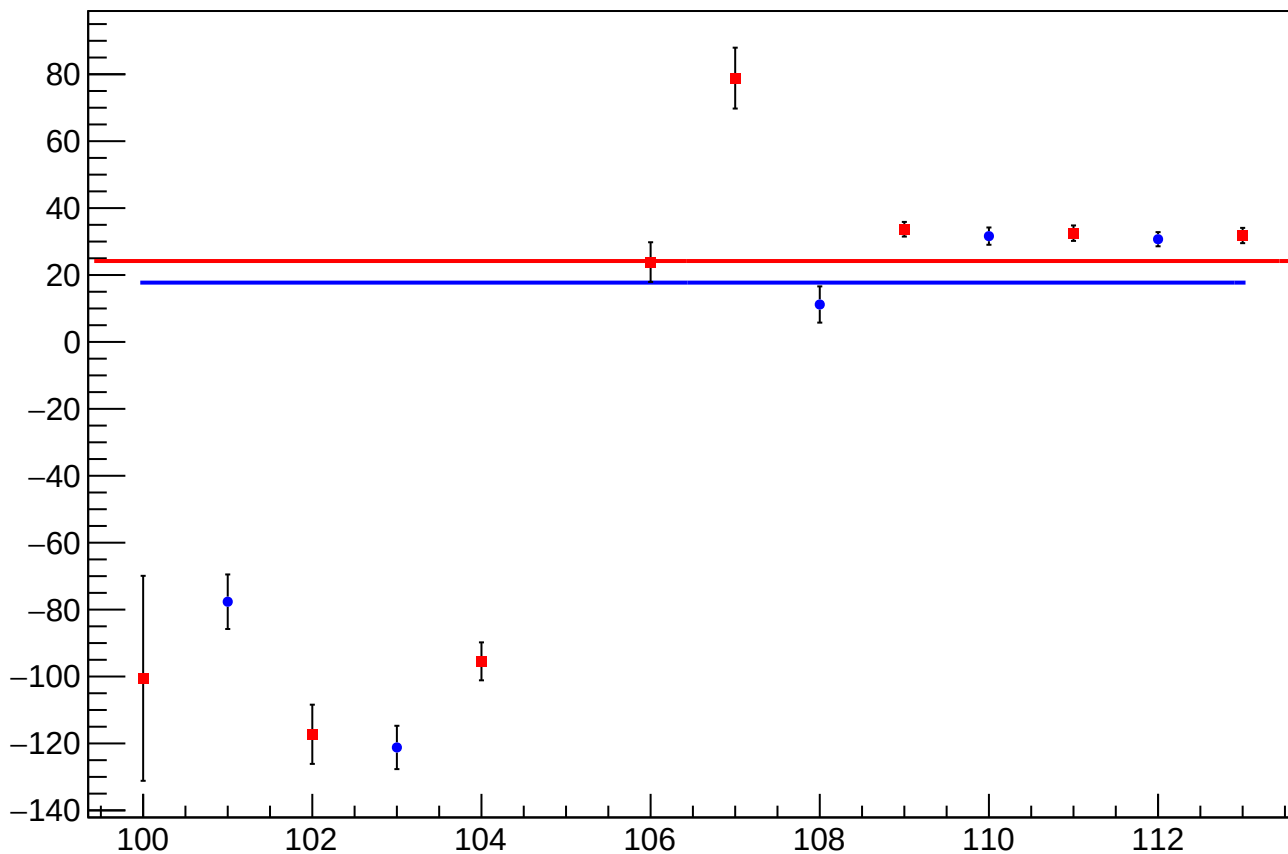
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.603+/-0.067  $\chi^2/\text{NDF}$ : 752751.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 17.729 $\pm$ 1.498  $\chi^2$ /NDF: 665.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 24.183 $\pm$ 1.218  $\chi^2$ /NDF: 796.2/7

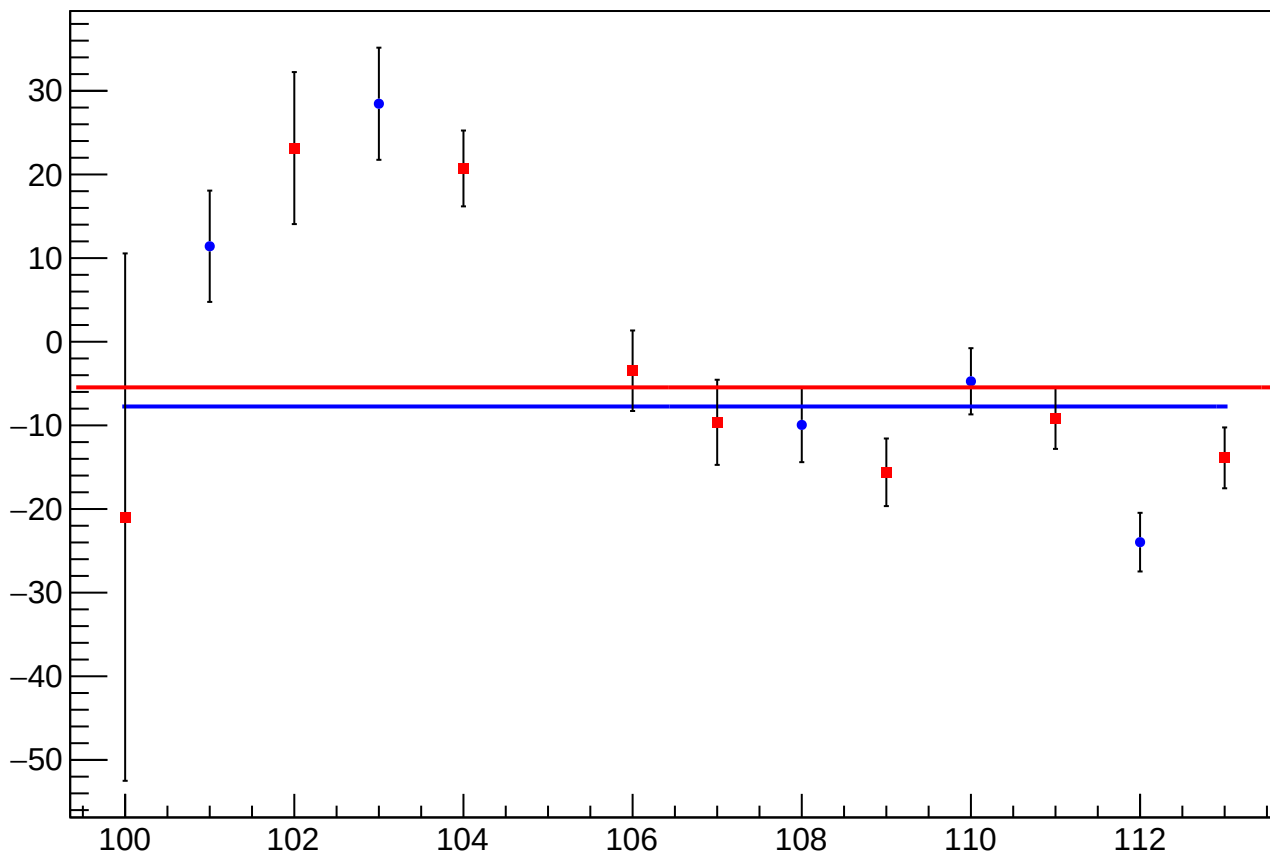
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.613 $\pm$ 0.945  $\chi^2$ /NDF: 1472.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-7.741 \pm 2.040$   $\chi^2/\text{NDF}$ : 59.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-5.455 \pm 1.681$   $\chi^2/\text{NDF}$ : 57.0/7

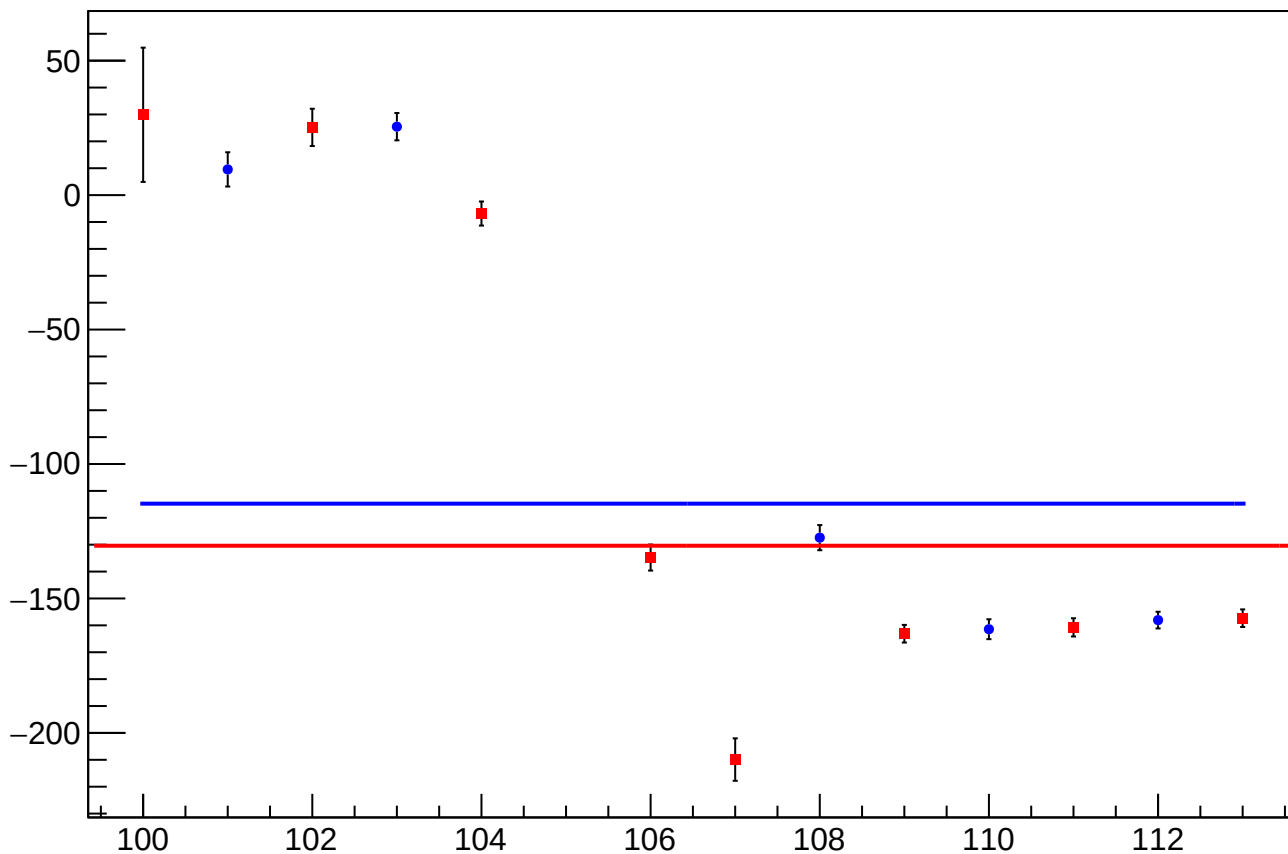
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-6.380 \pm 1.297$   $\chi^2/\text{NDF}$ : 117.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -114.742 $\pm$ 1.869  $\chi^2$ /NDF: 1503.5/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -130.393 $\pm$ 1.572  $\chi^2$ /NDF: 1656.6/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

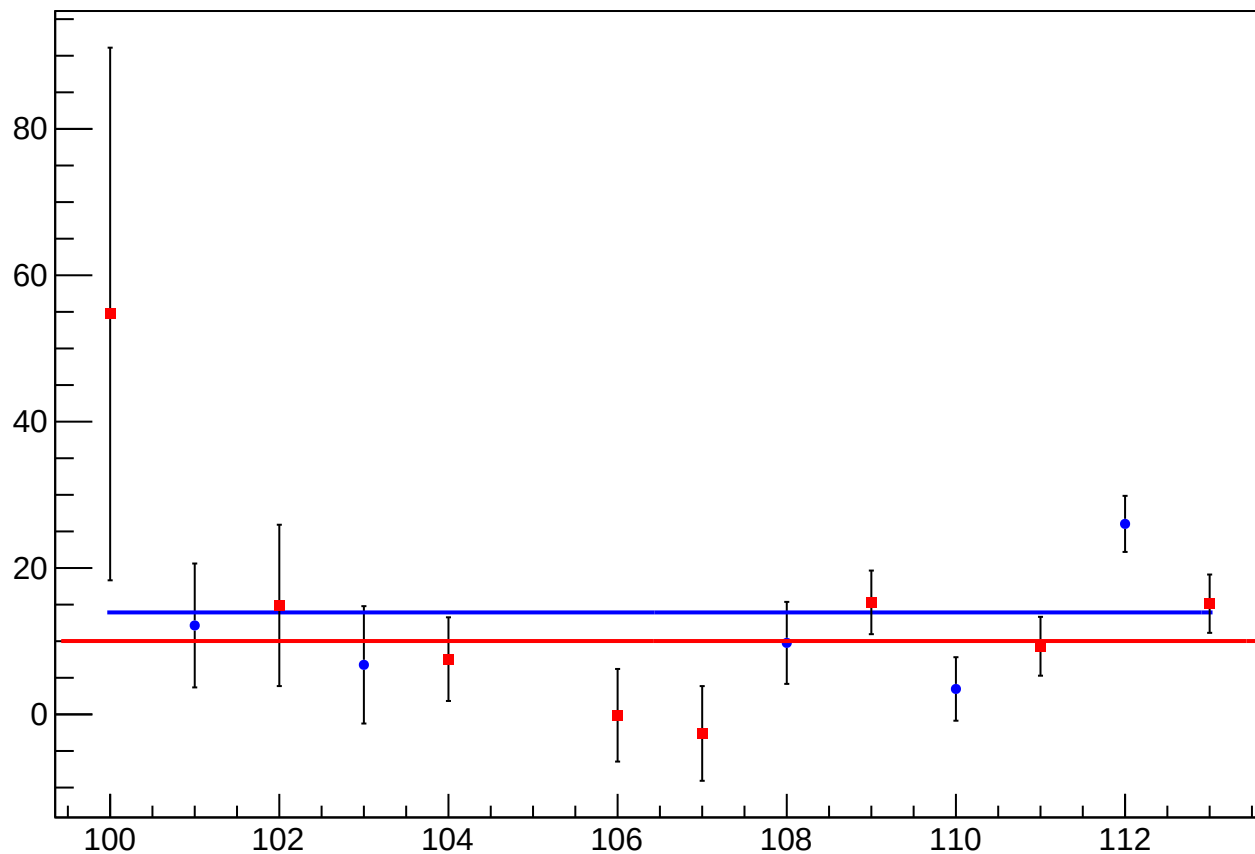
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -123.908 $\pm$ 1.203  $\chi^2$ /NDF: 3201.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 13.932 $\pm$ 2.340  $\chi^2$ /NDF: 17.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.023 $\pm$ 1.938  $\chi^2$ /NDF: 11.4/7

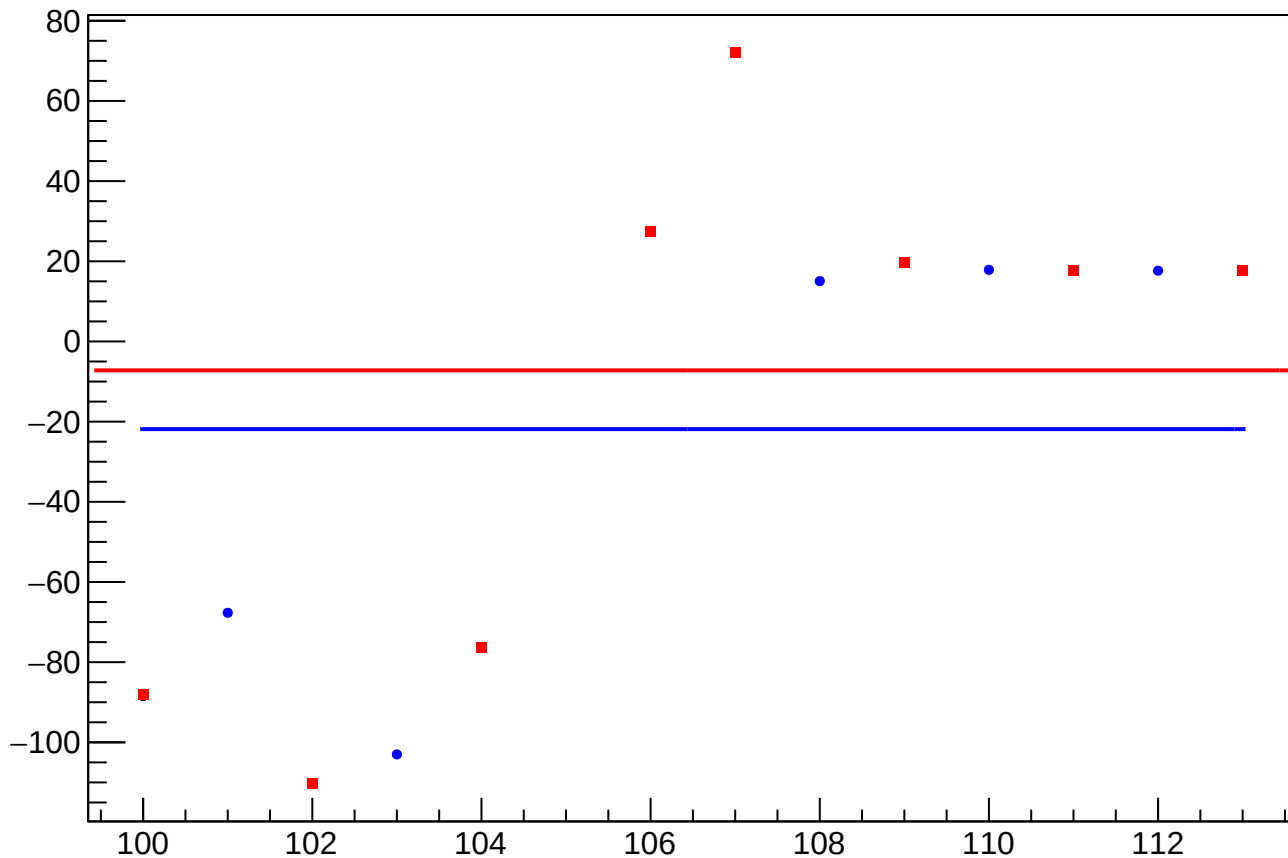
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.613 $\pm$ 1.493  $\chi^2$ /NDF: 30.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-21.870 \pm 0.109$   $\chi^2/\text{NDF}: 240081.1/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-7.210 \pm 0.095$   $\chi^2/\text{NDF}: 338353.4/7$

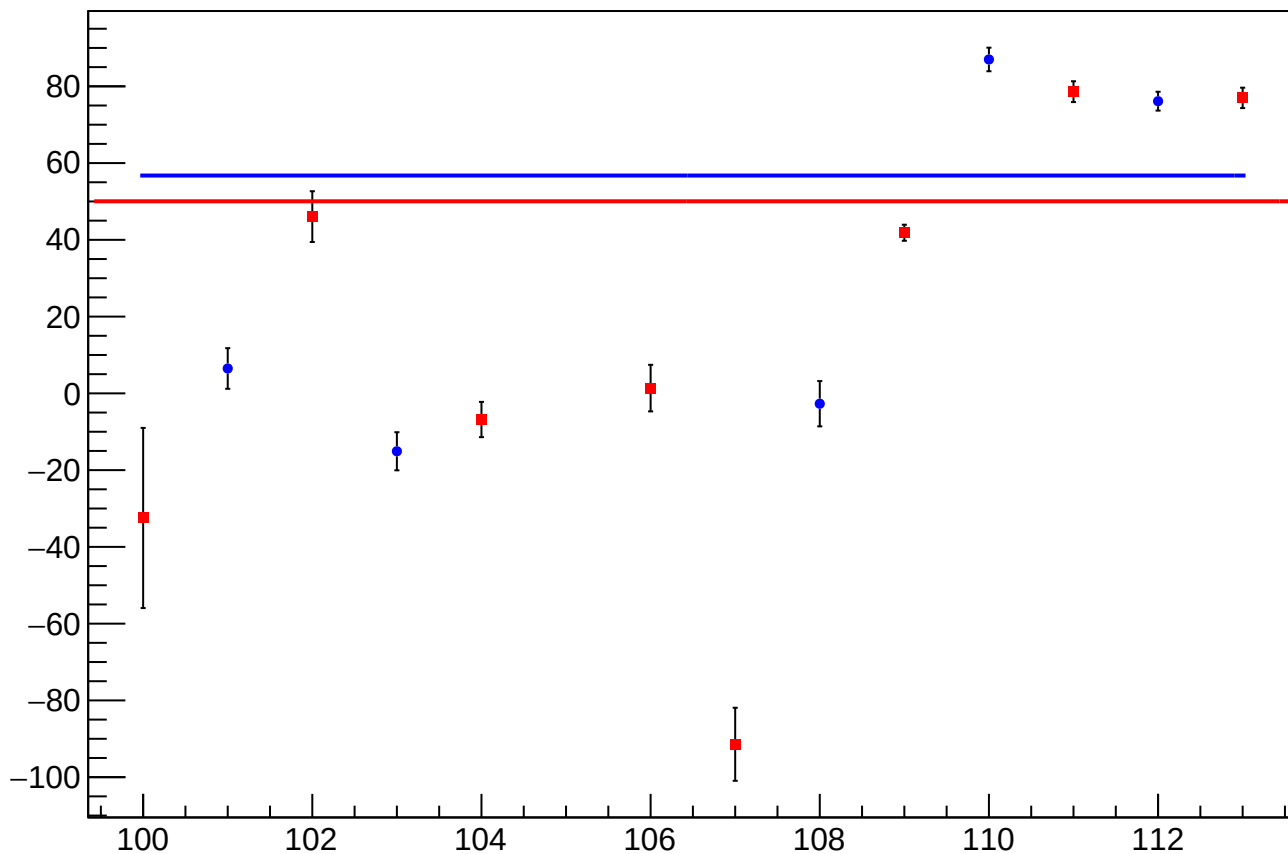
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-13.559 \pm 0.072$   $\chi^2/\text{NDF}: 588667.8/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 56.753+/-1.630  $\chi^2/\text{NDF}$ : 560.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 50.047+/-1.274  $\chi^2/\text{NDF}$ : 680.1/7

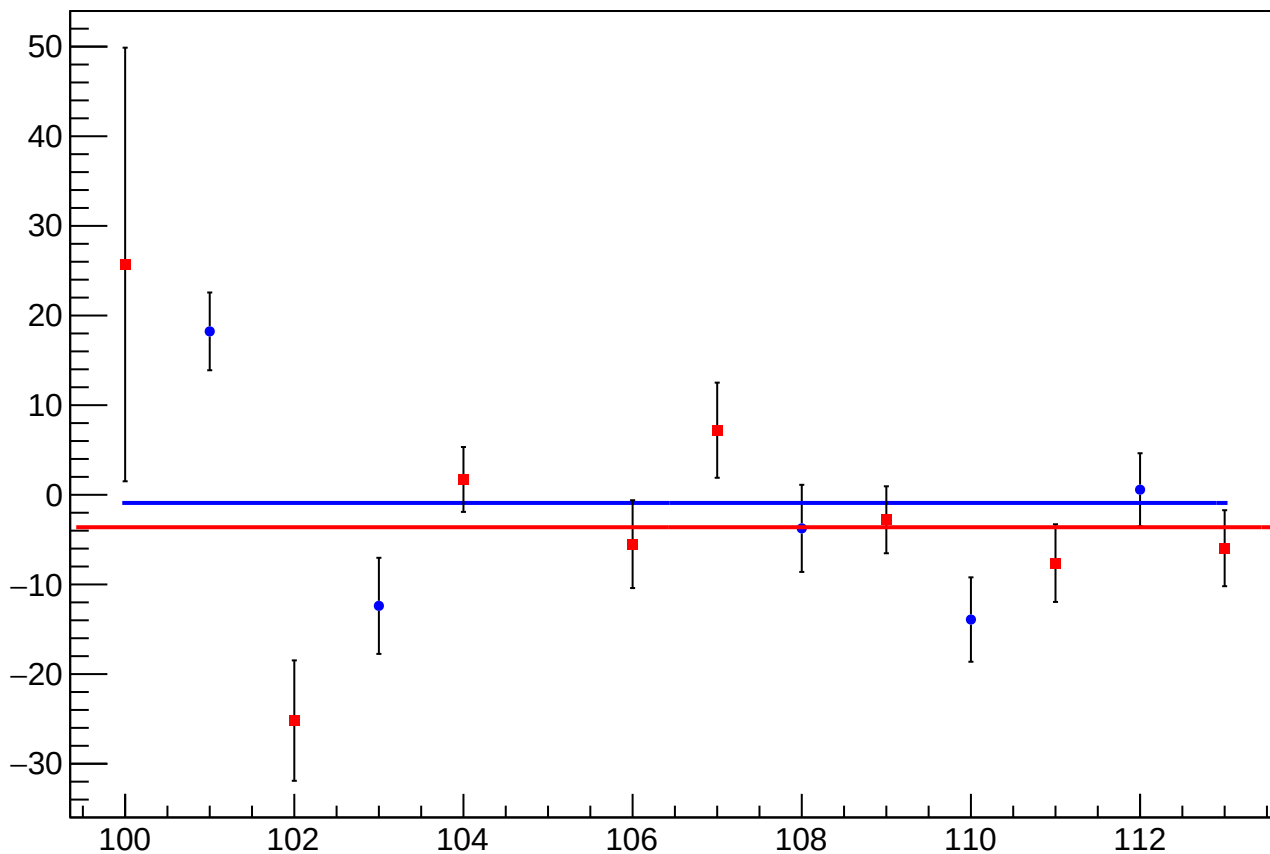
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52.591+/-1.004  $\chi^2/\text{NDF}$ : 1250.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -0.906+/-2.059  $\chi^2/\text{NDF}$ : 32.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.615+/-1.671  $\chi^2/\text{NDF}$ : 19.5/7

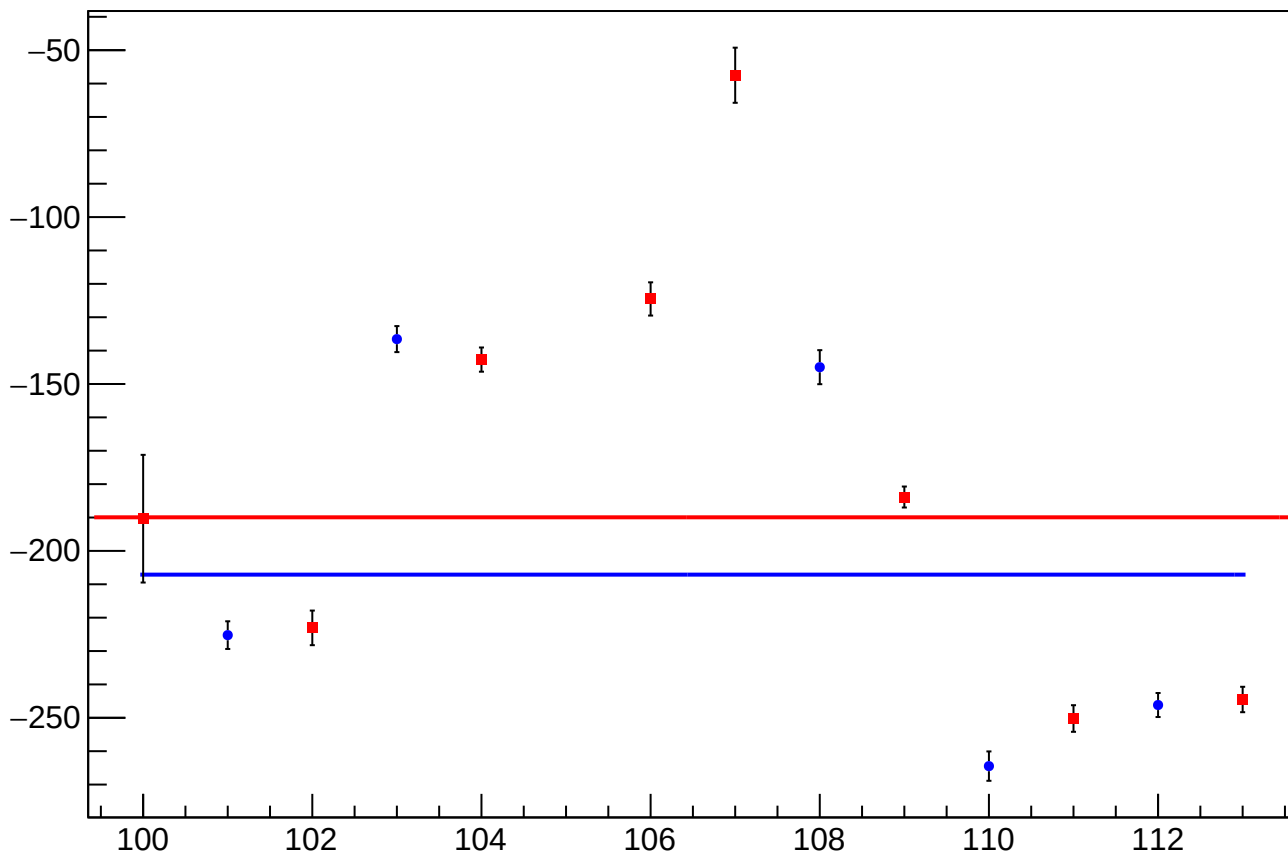
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.539+/-1.298  $\chi^2/\text{NDF}$ : 52.7/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -207.109+/-1.852  $\chi^2/\text{NDF}$ : 783.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -189.937+/-1.573  $\chi^2/\text{NDF}$ : 1078.5/7

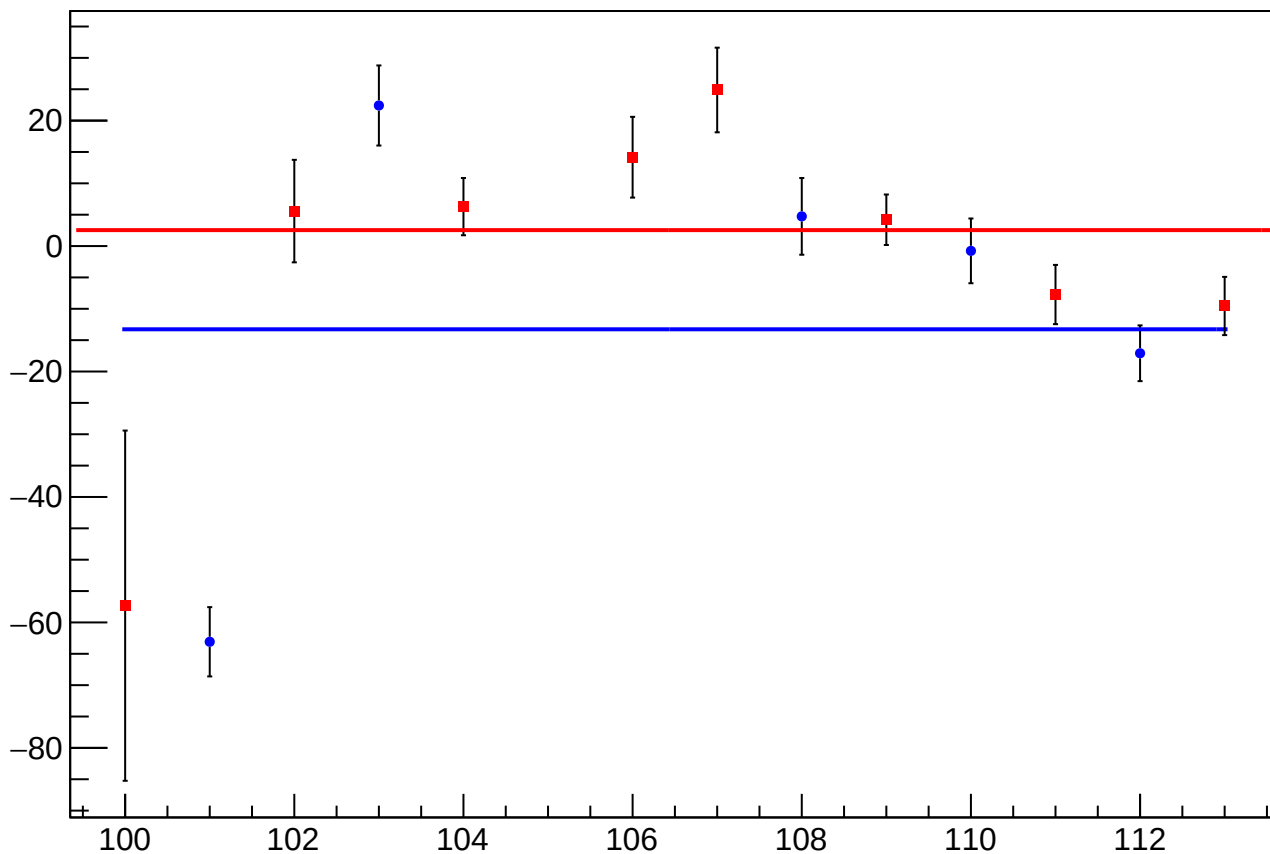
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -197.131+/-1.199  $\chi^2/\text{NDF}$ : 1911.8/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -13.269 $\pm$ 2.409  $\chi^2$ /NDF: 127.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.541 $\pm$ 1.949  $\chi^2$ /NDF: 31.3/7

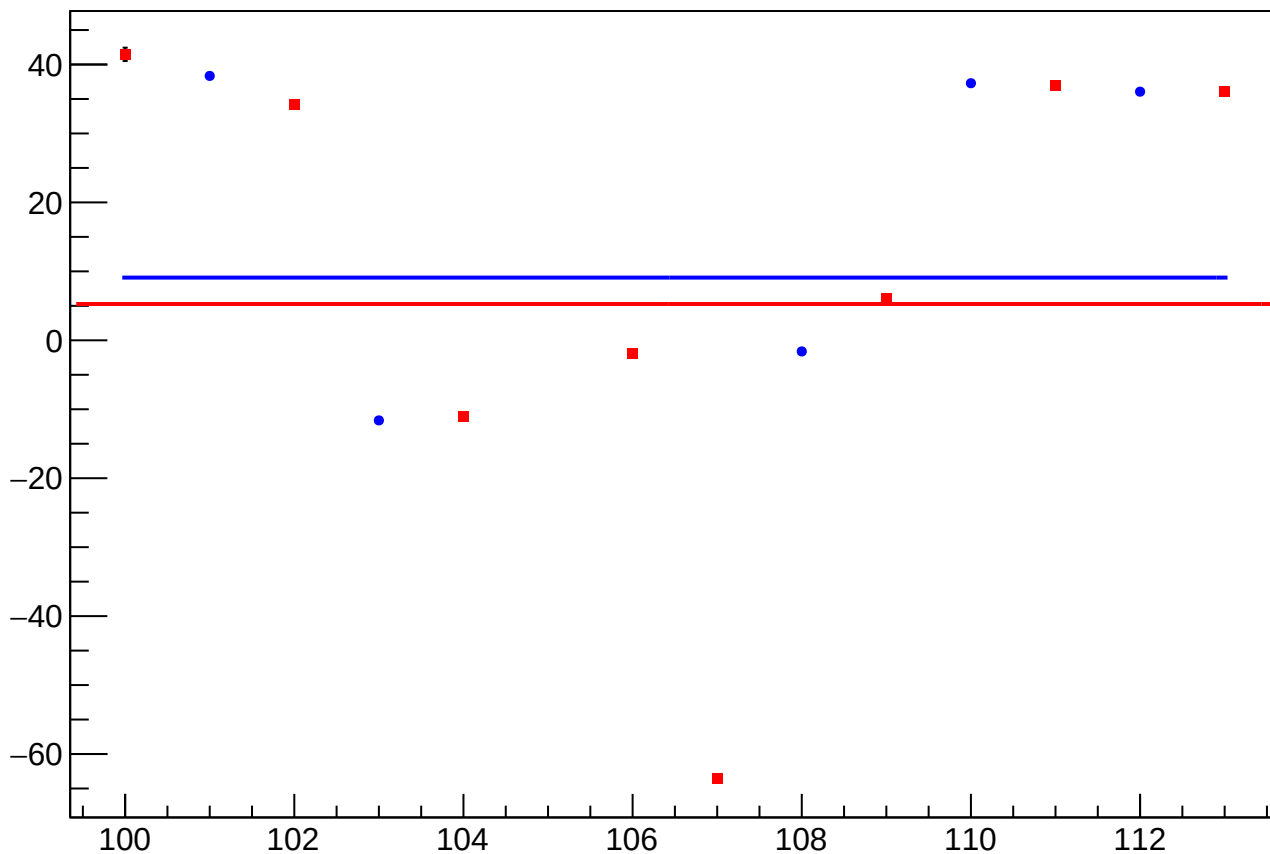
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.711 $\pm$ 1.515  $\chi^2$ /NDF: 185.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 9.096+/-0.101  $\chi^2/\text{NDF}$ : 47931.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.268+/-0.089  $\chi^2/\text{NDF}$ : 91175.4/7

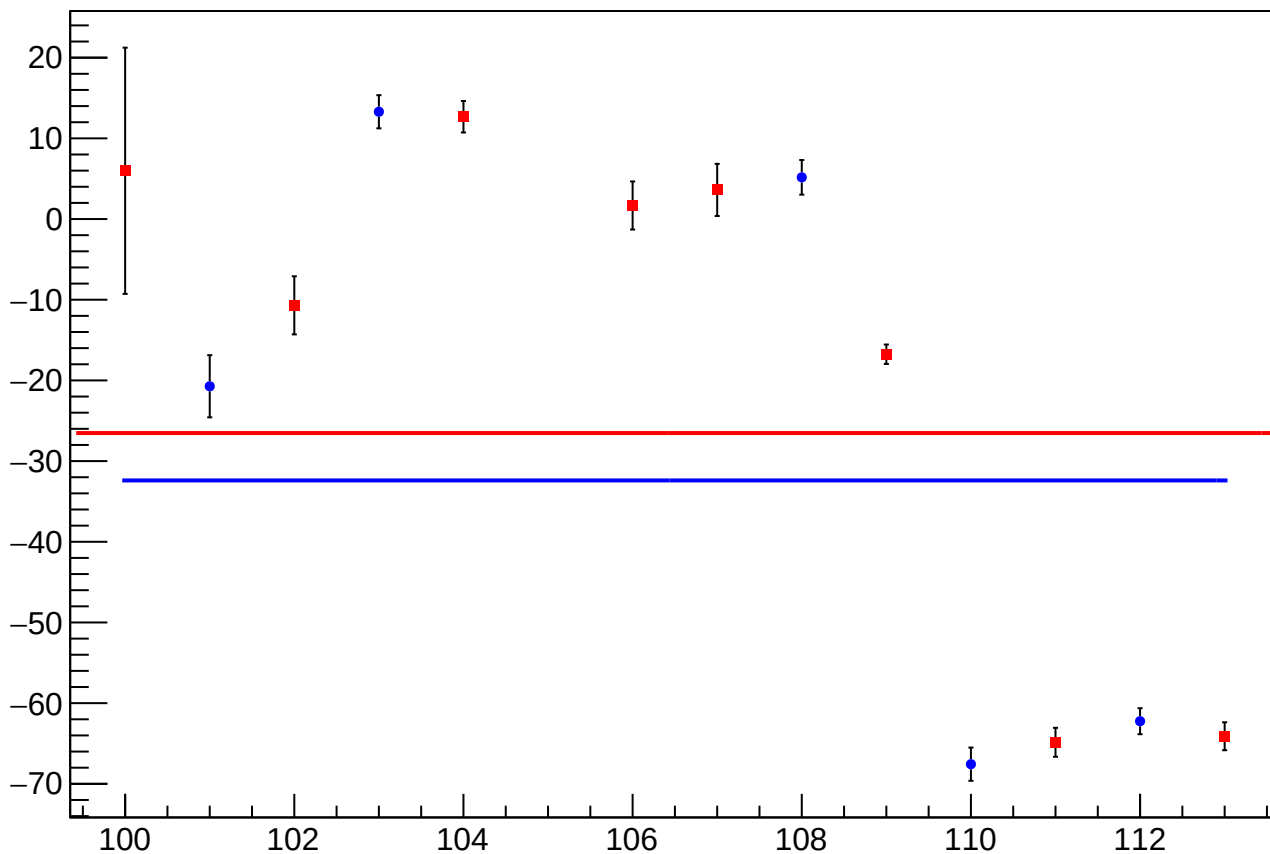
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.941+/-0.067  $\chi^2/\text{NDF}$ : 139909.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -32.398 $\pm$ 0.936  $\chi^2$ /NDF: 1443.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -26.524 $\pm$ 0.728  $\chi^2$ /NDF: 1598.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

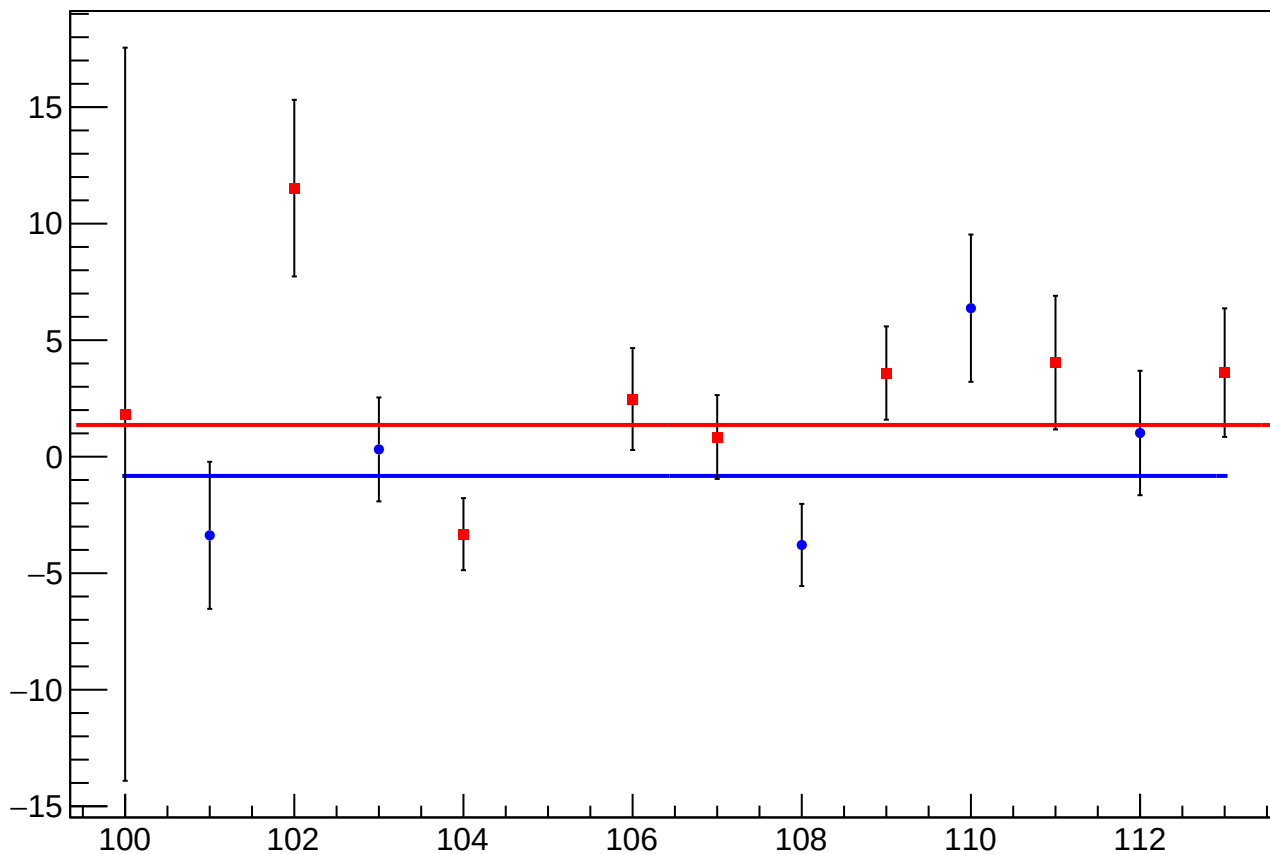
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -28.738 $\pm$ 0.575  $\chi^2$ /NDF: 3066.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -0.826 $\pm$ 1.076  $\chi^2$ /NDF: 9.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.362 $\pm$ 0.813  $\chi^2$ /NDF: 19.5/7

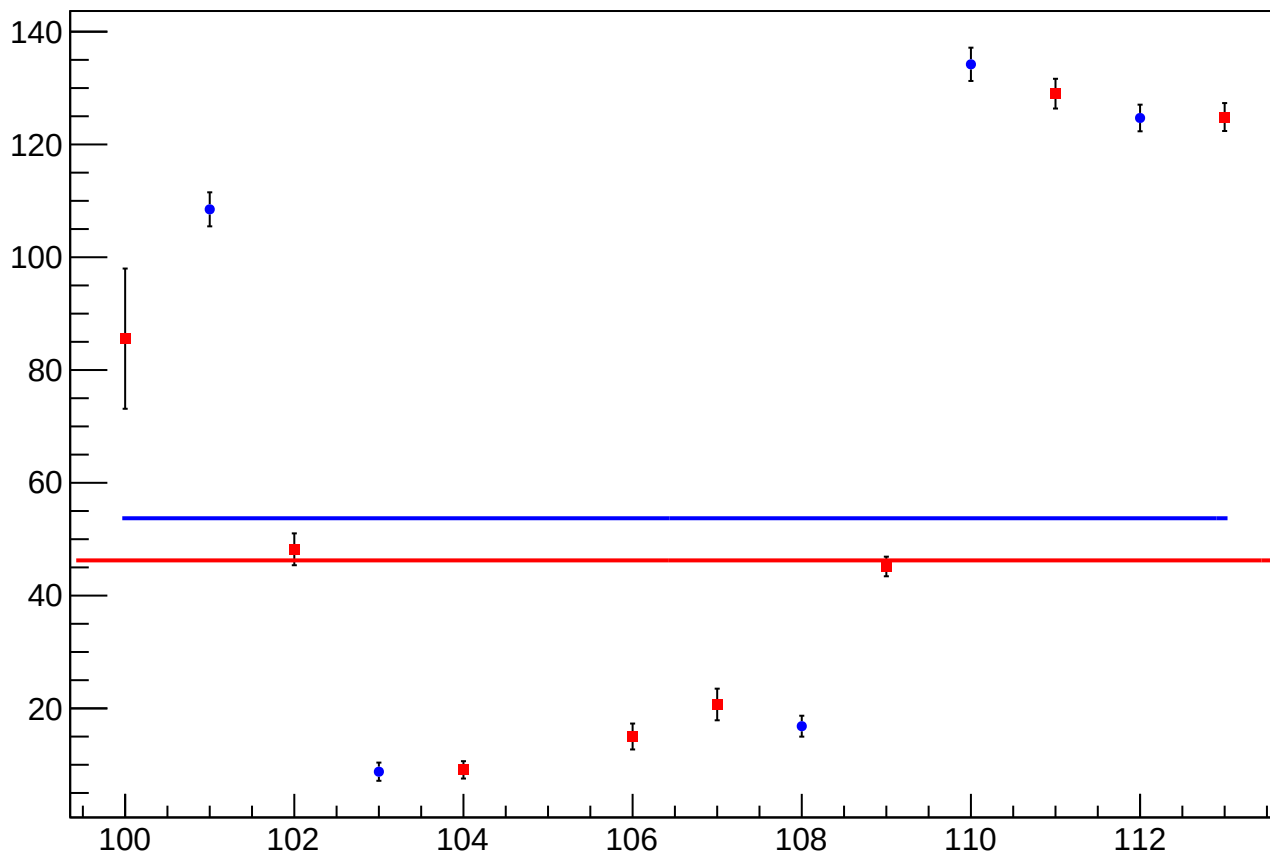
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.567 $\pm$ 0.649  $\chi^2$ /NDF: 31.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 53.715+/-0.963  $\chi^2/\text{NDF}$ : 3148.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.243+/-0.814  $\chi^2/\text{NDF}$ : 2853.7/7

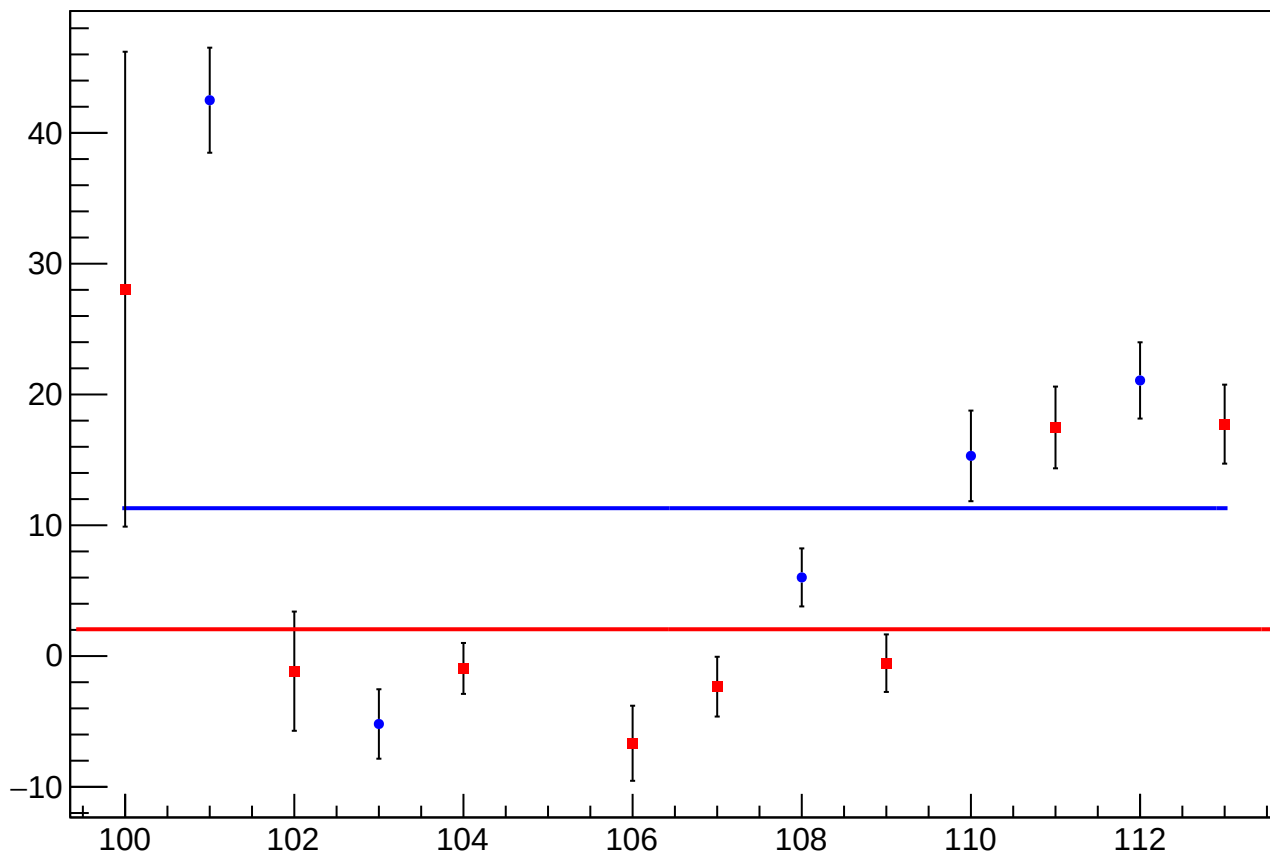
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.359+/-0.622  $\chi^2/\text{NDF}$ : 6036.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 11.306 $\pm$ 1.283  $\chi^2$ /NDF: 117.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.050 $\pm$ 0.978  $\chi^2$ /NDF: 70.6/7

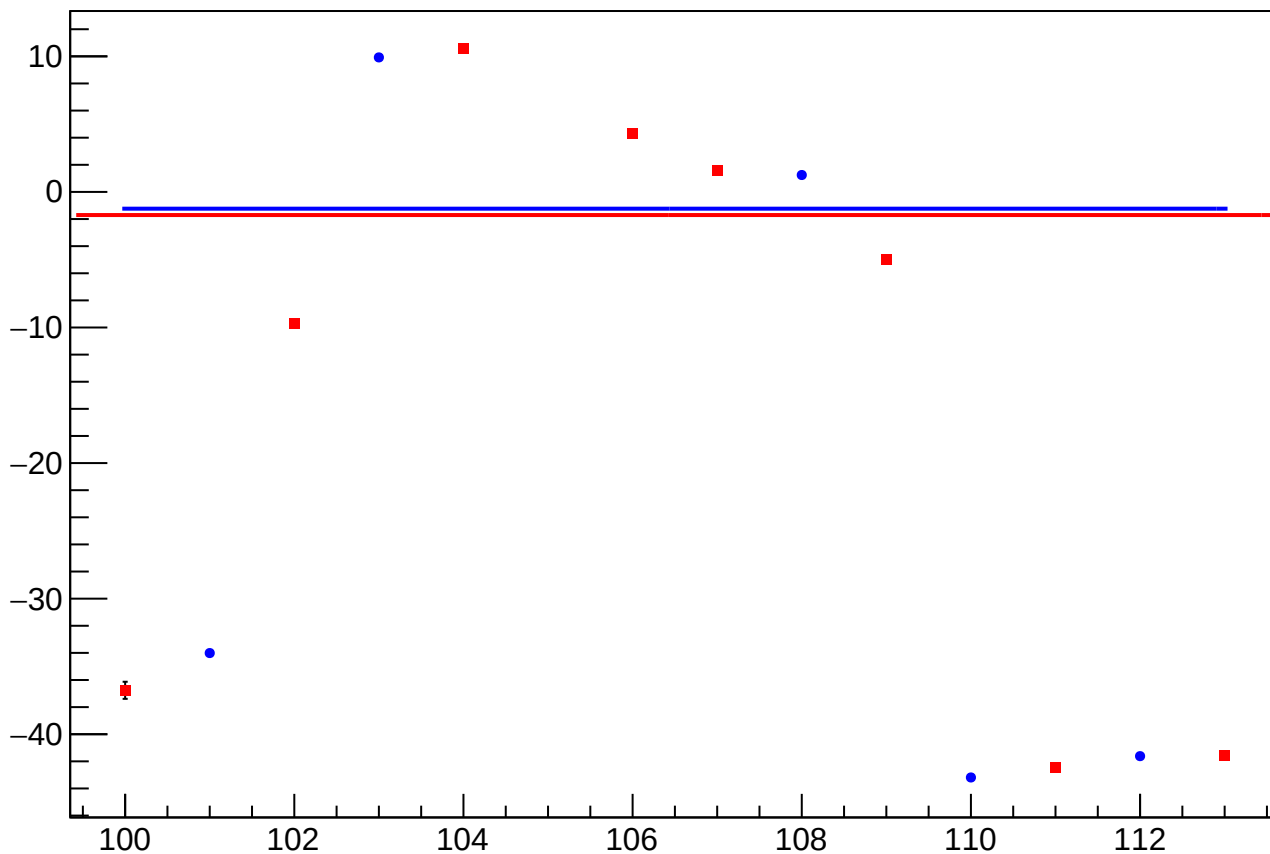
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.451 $\pm$ 0.777  $\chi^2$ /NDF: 220.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -1.236 $\pm$ 0.046  $\chi^2$ /NDF: 138831.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.705 $\pm$ 0.043  $\chi^2$ /NDF: 123050.7/7

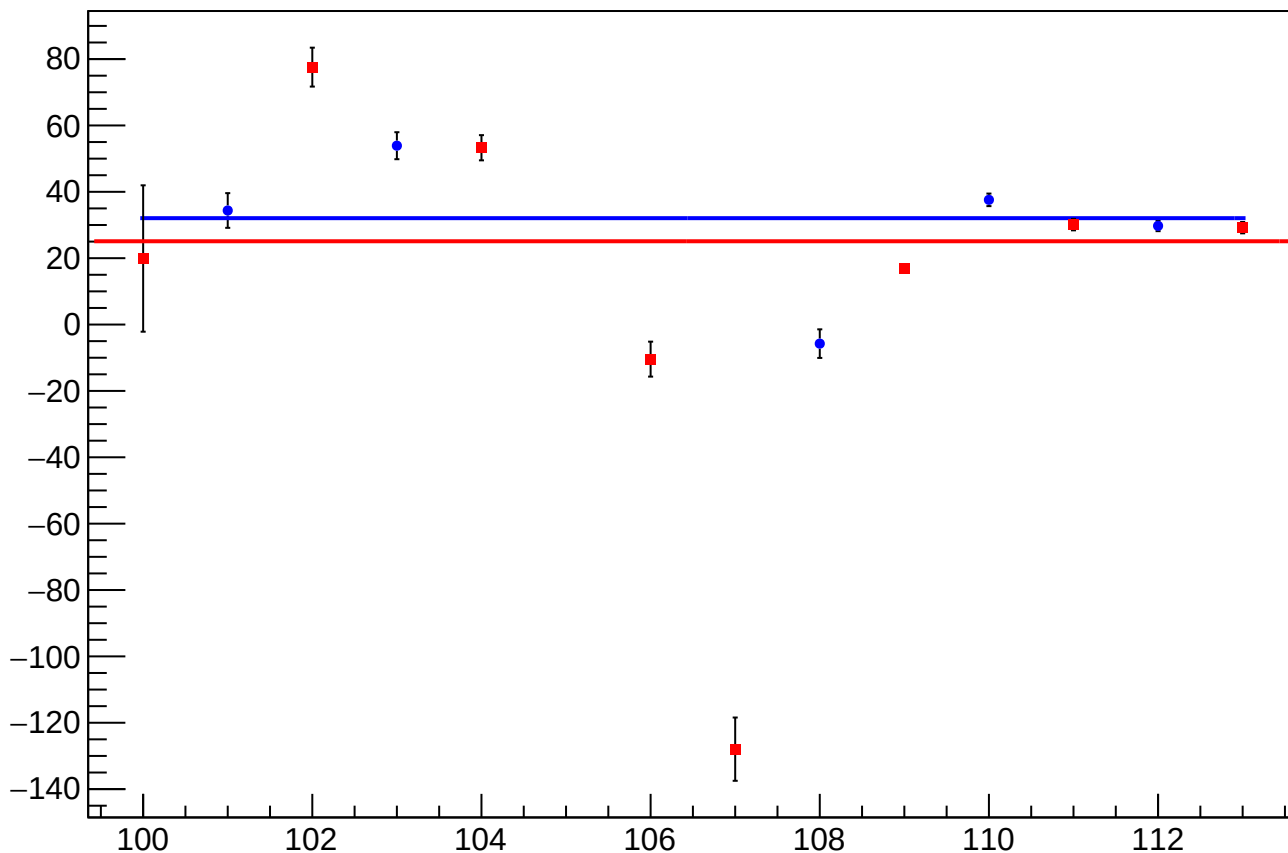
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.485 $\pm$ 0.031  $\chi^2$ /NDF: 261937.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 32.060 $\pm$ 1.102  $\chi^2$ /NDF: 116.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 25.101 $\pm$ 0.887  $\chi^2$ /NDF: 481.7/7

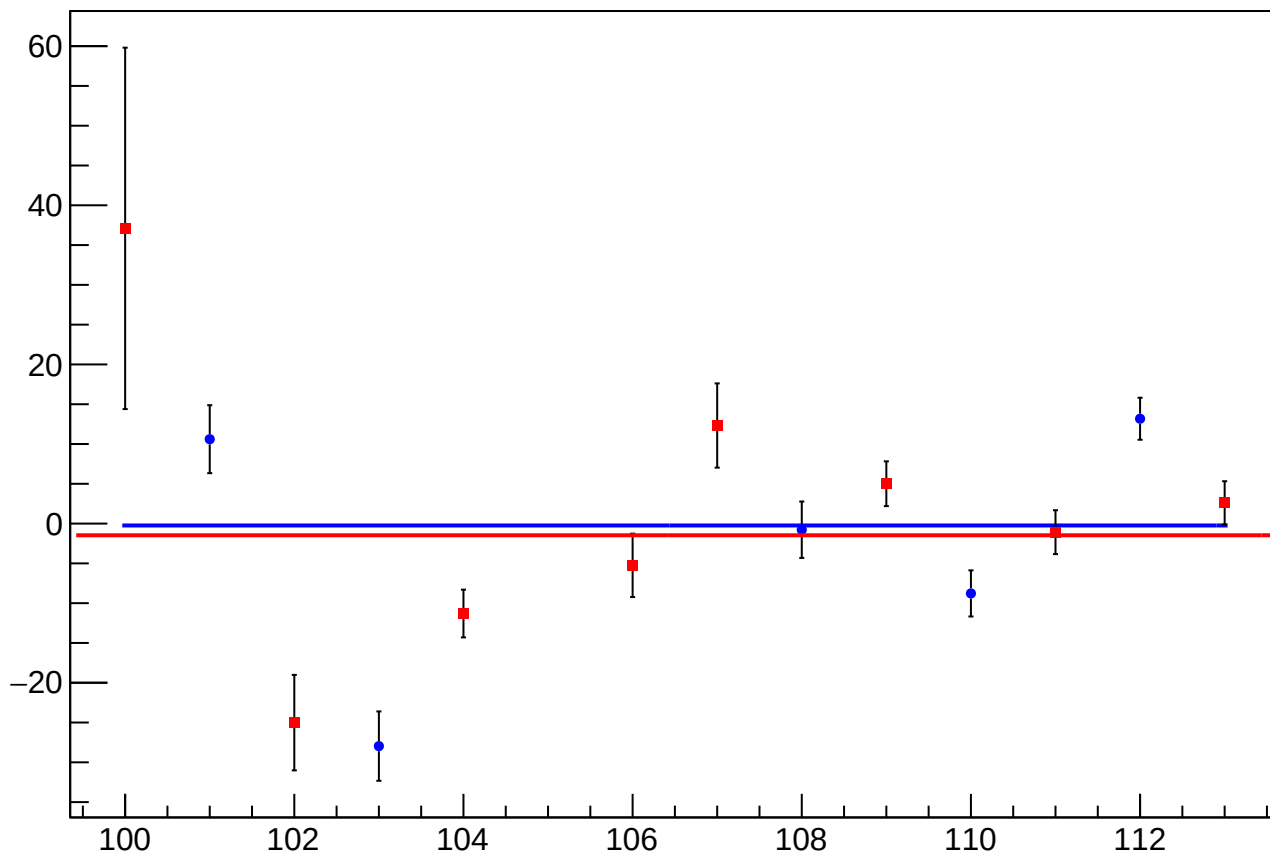
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.839 $\pm$ 0.691  $\chi^2$ /NDF: 622.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.236 \pm 1.491$   $\chi^2/\text{NDF}: 81.4/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-1.468 \pm 1.257$   $\chi^2/\text{NDF}: 44.3/7$

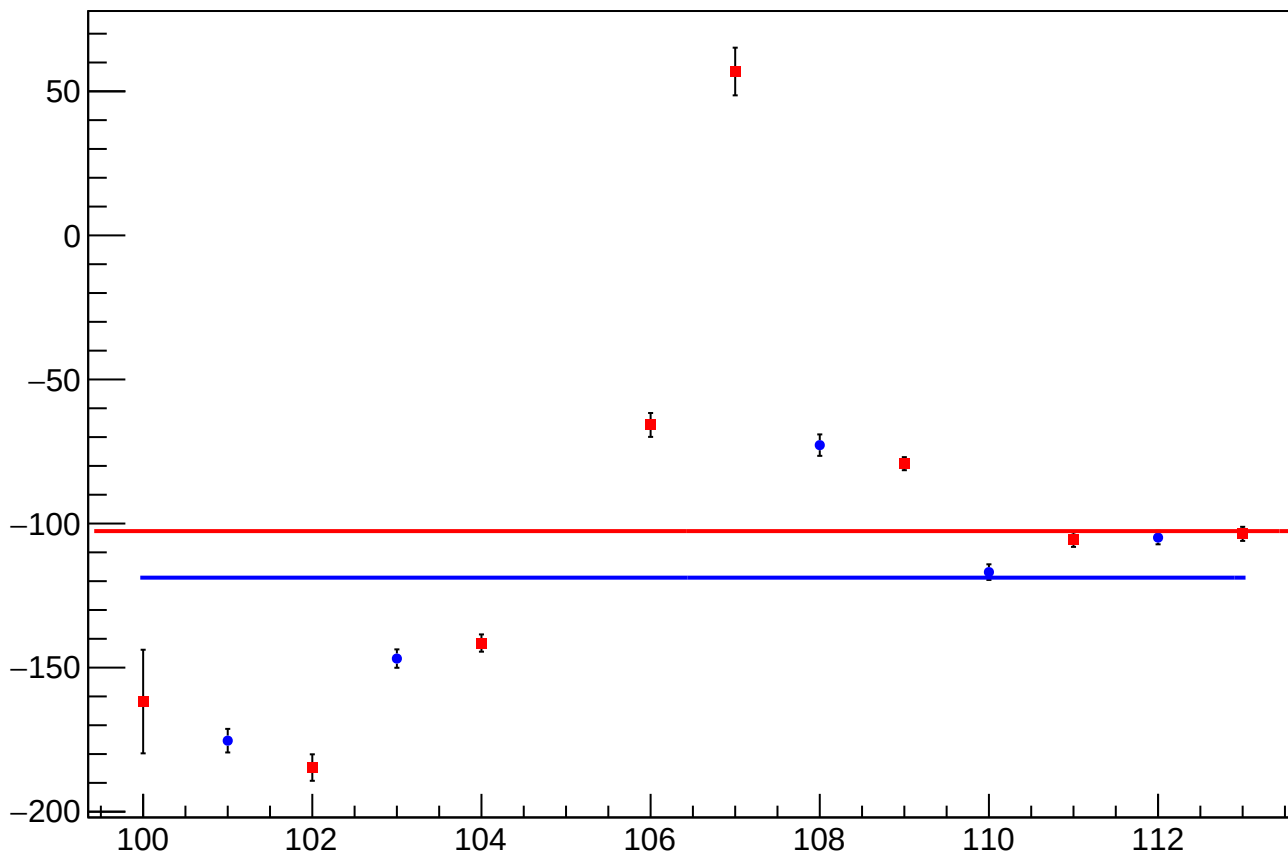
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.956 \pm 0.961$   $\chi^2/\text{NDF}: 126.1/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -118.779+/-1.349  $\chi^2/\text{NDF}$ : 457.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -102.624+/-1.153  $\chi^2/\text{NDF}$ : 1056.2/7

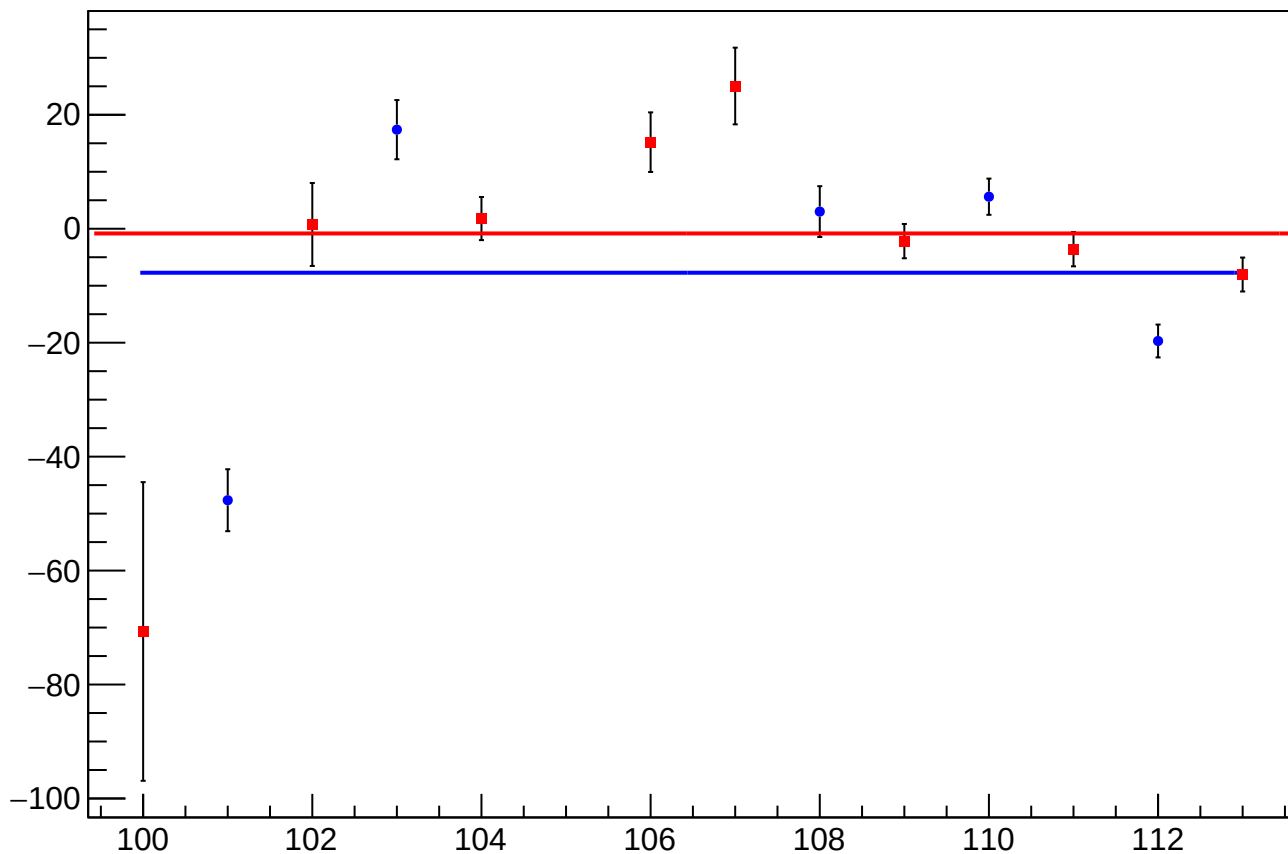
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -109.449+/-0.877  $\chi^2/\text{NDF}$ : 1596.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -7.721+/-1.714  $\chi^2$ /NDF: 118.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.826+/-1.439  $\chi^2$ /NDF: 38.7/7

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

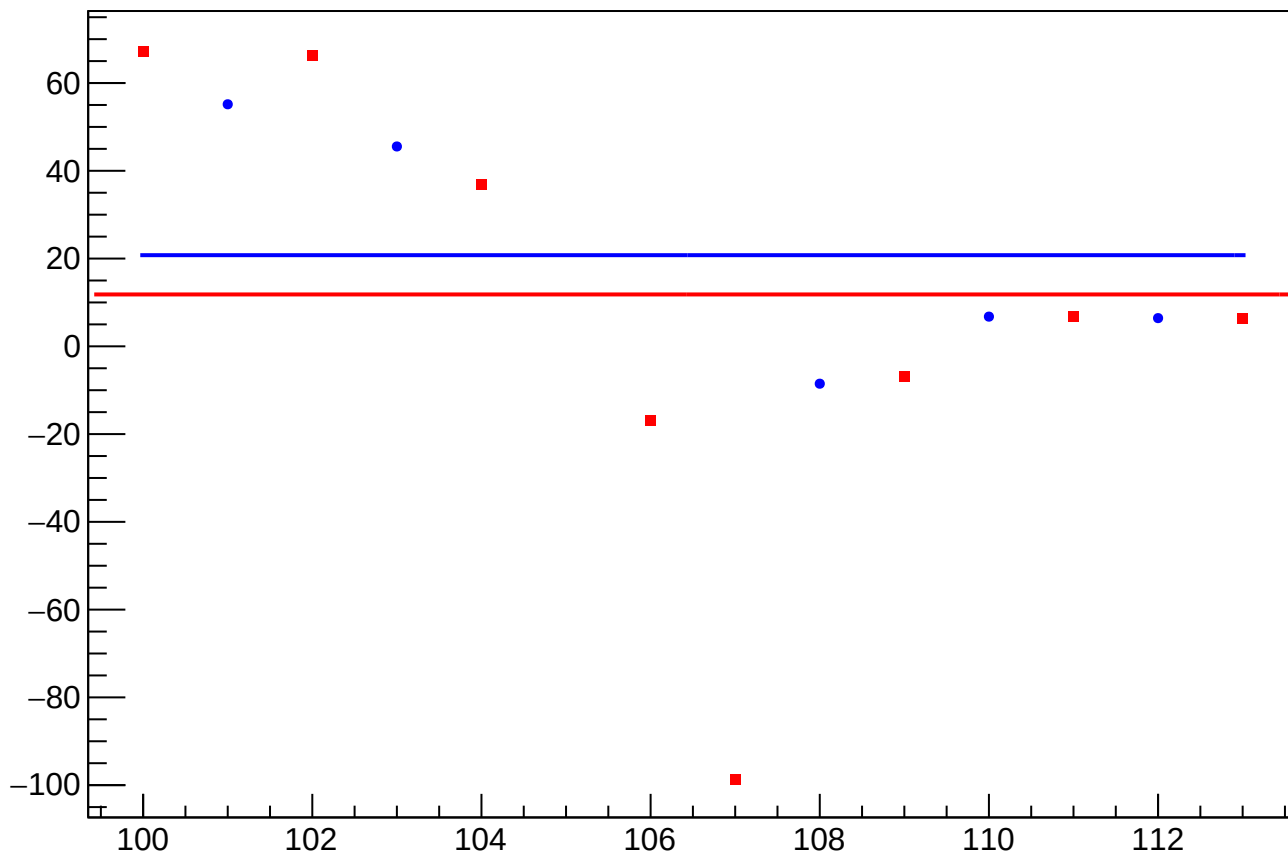
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -3.678+/-1.102  $\chi^2$ /NDF: 166.2/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 20.772 $\pm$ 0.078  $\chi^2$ /NDF: 101736.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11.823 $\pm$ 0.071  $\chi^2$ /NDF: 250610.9/7

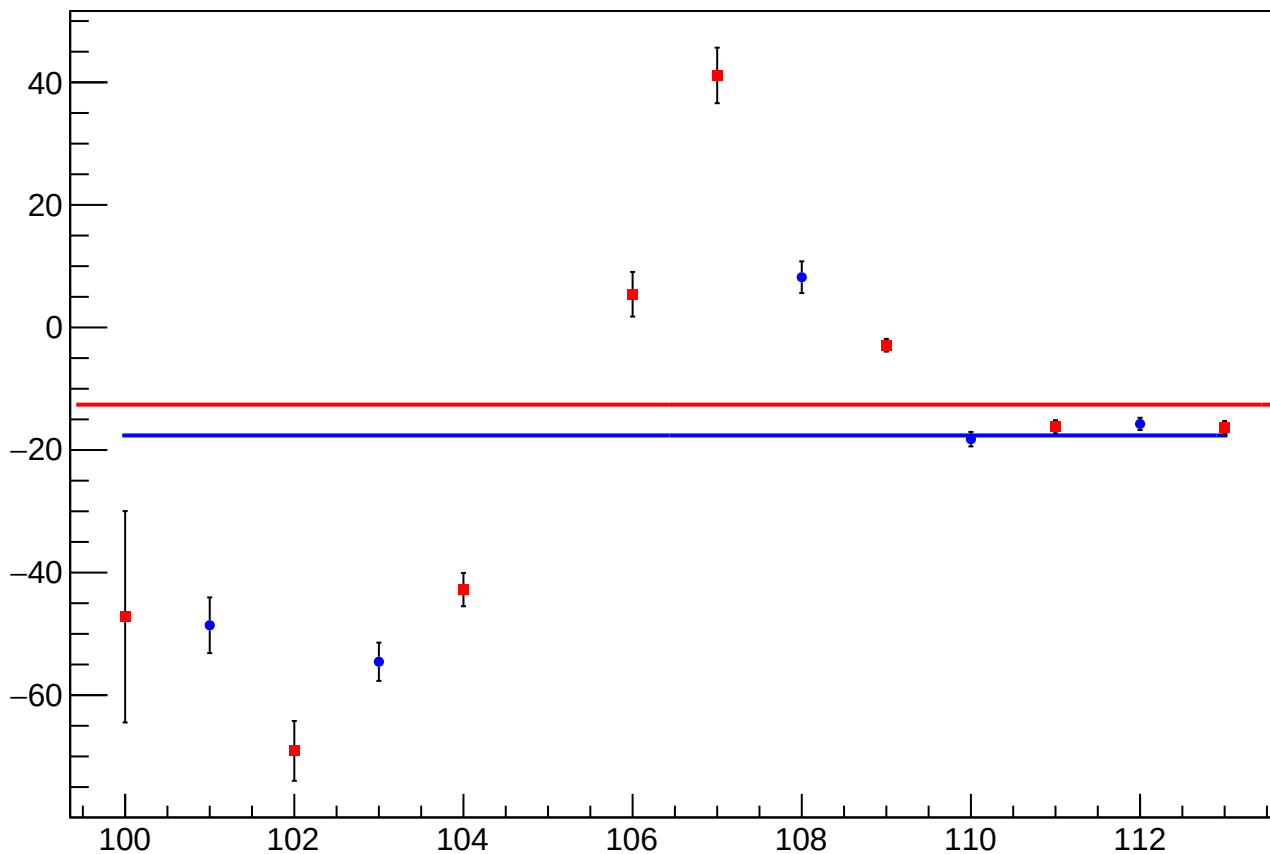
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 15.905 $\pm$ 0.052  $\chi^2$ /NDF: 359584.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -17.619 $\pm$ 0.702  $\chi^2$ /NDF: 290.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -12.593 $\pm$ 0.578  $\chi^2$ /NDF: 538.5/7

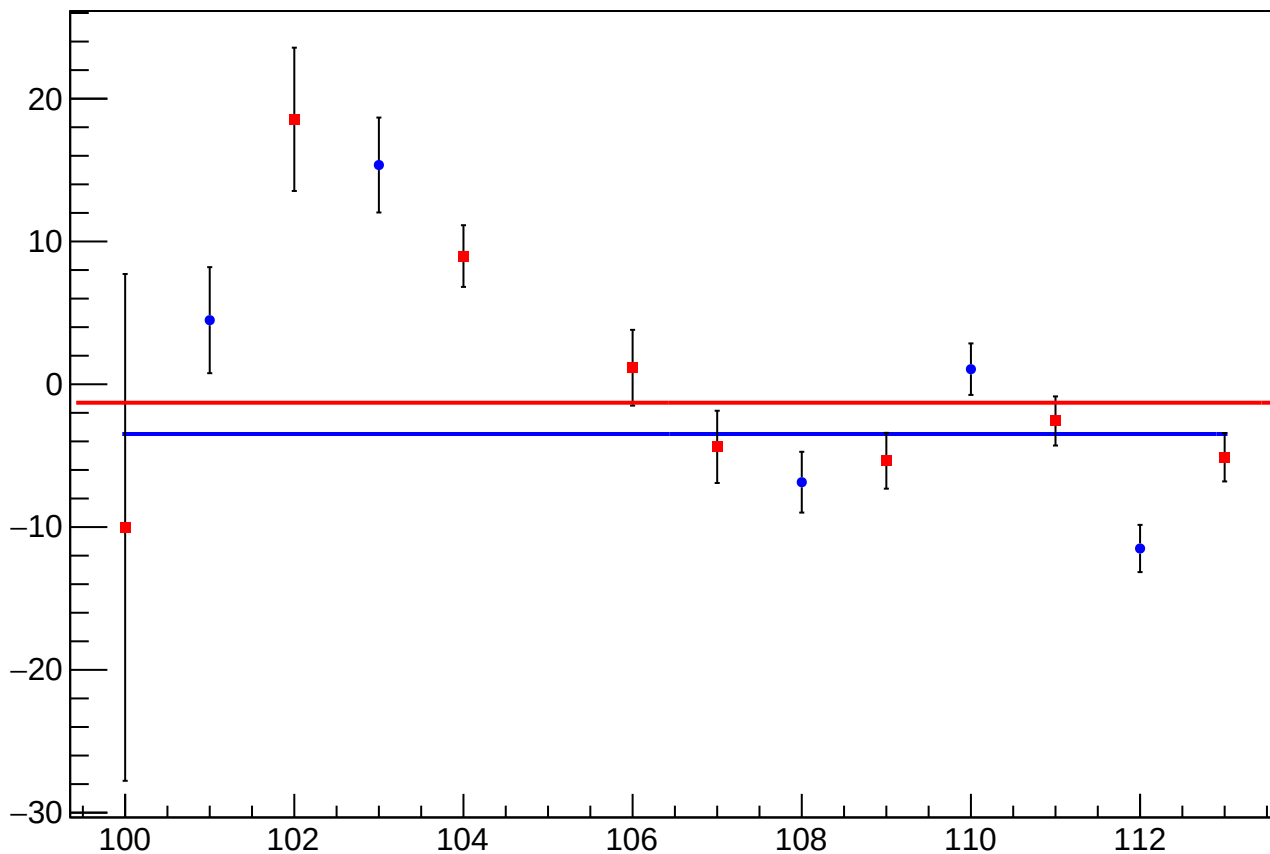
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.624 $\pm$ 0.446  $\chi^2$ /NDF: 859.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -3.482+/-0.973  $\chi^2/\text{NDF}$ : 69.1/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.291+/-0.815  $\chi^2/\text{NDF}$ : 50.8/7

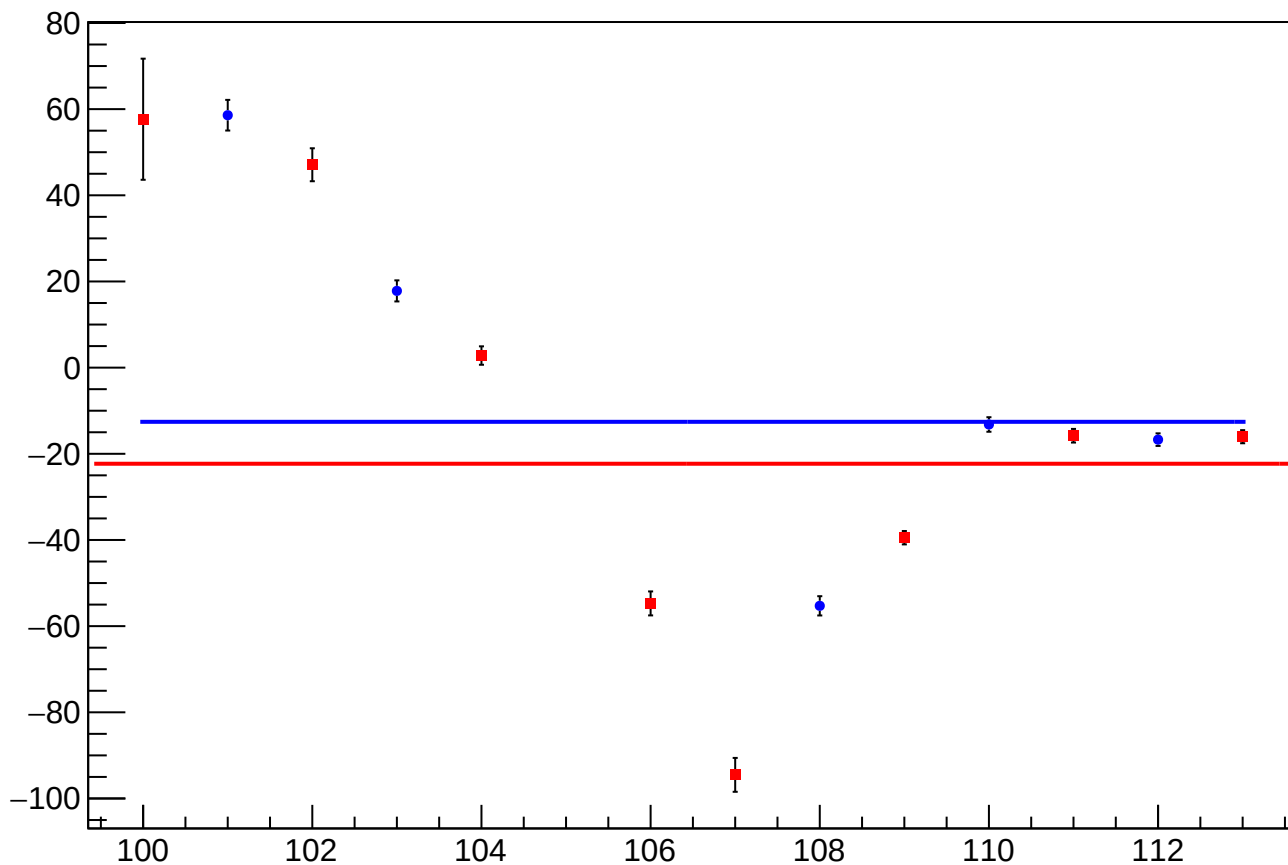
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.195+/-0.625  $\chi^2/\text{NDF}$ : 122.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -12.576 $\pm$ 0.889  $\chi^2$ /NDF: 927.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -22.307 $\pm$ 0.760  $\chi^2$ /NDF: 1127.9/7

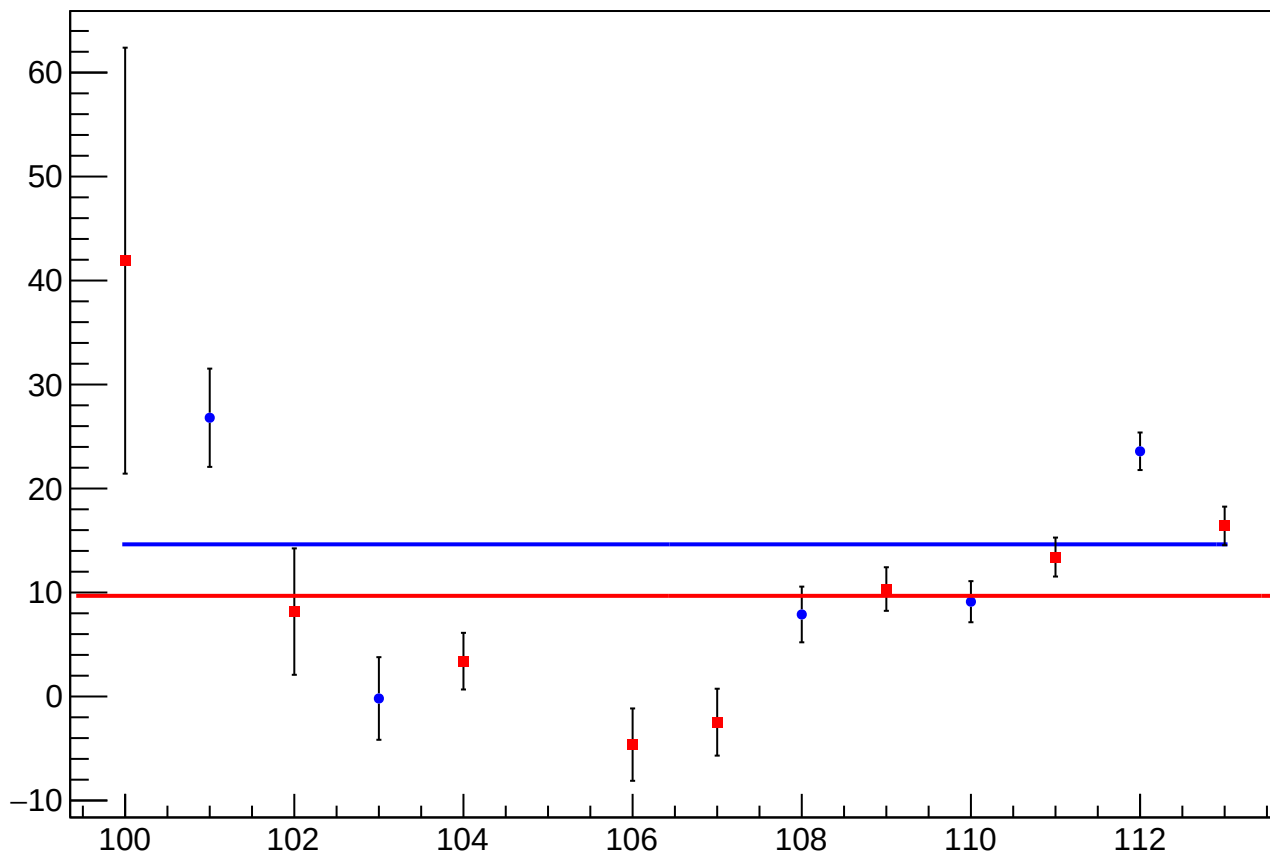
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -18.195 $\pm$ 0.578  $\chi^2$ /NDF: 2124.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 14.632 $\pm$ 1.111  $\chi^2$ /NDF: 59.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 9.680 $\pm$ 0.934  $\chi^2$ /NDF: 56.2/7

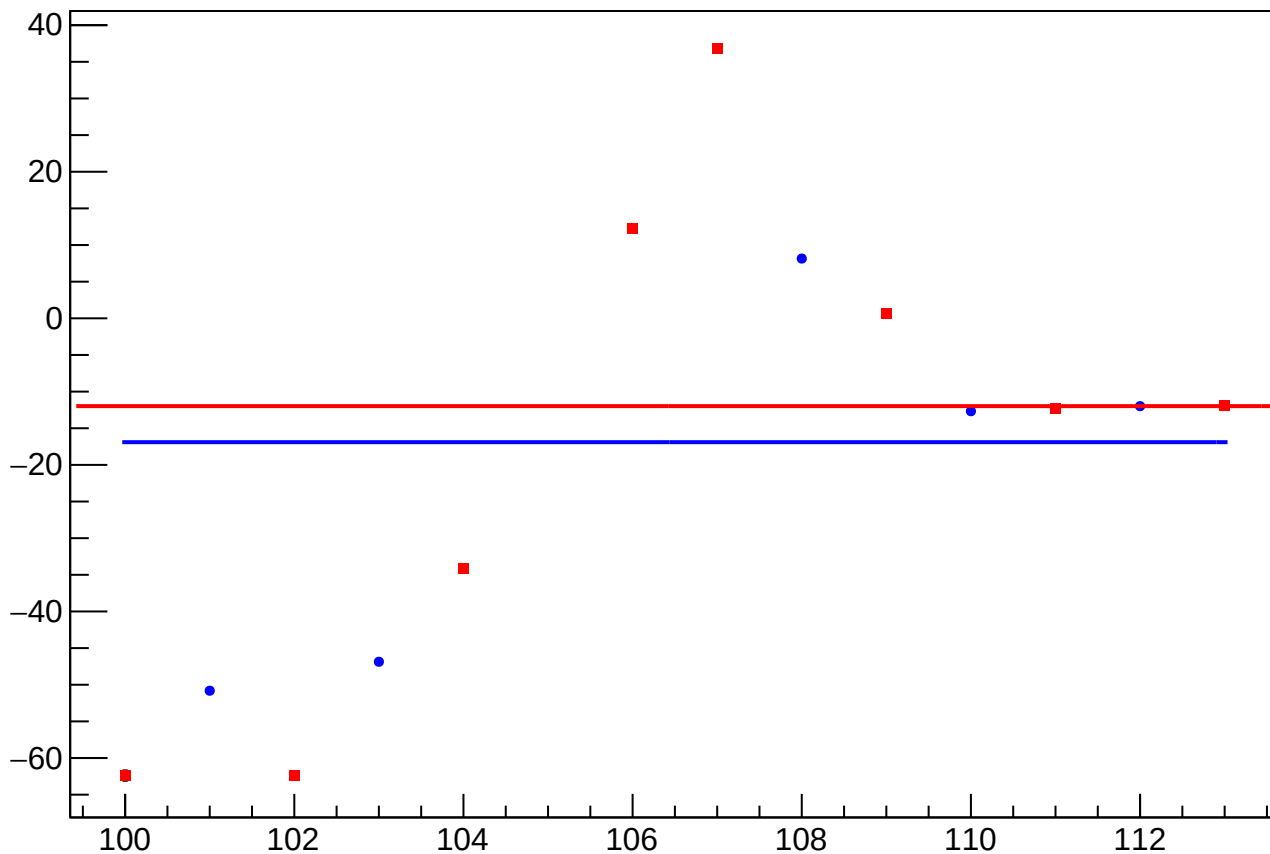
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.730 $\pm$ 0.715  $\chi^2$ /NDF: 127.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-16.901 \pm 0.052$   $\chi^2/\text{NDF}: 189403.0/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-11.982 \pm 0.048$   $\chi^2/\text{NDF}: 276452.4/7$

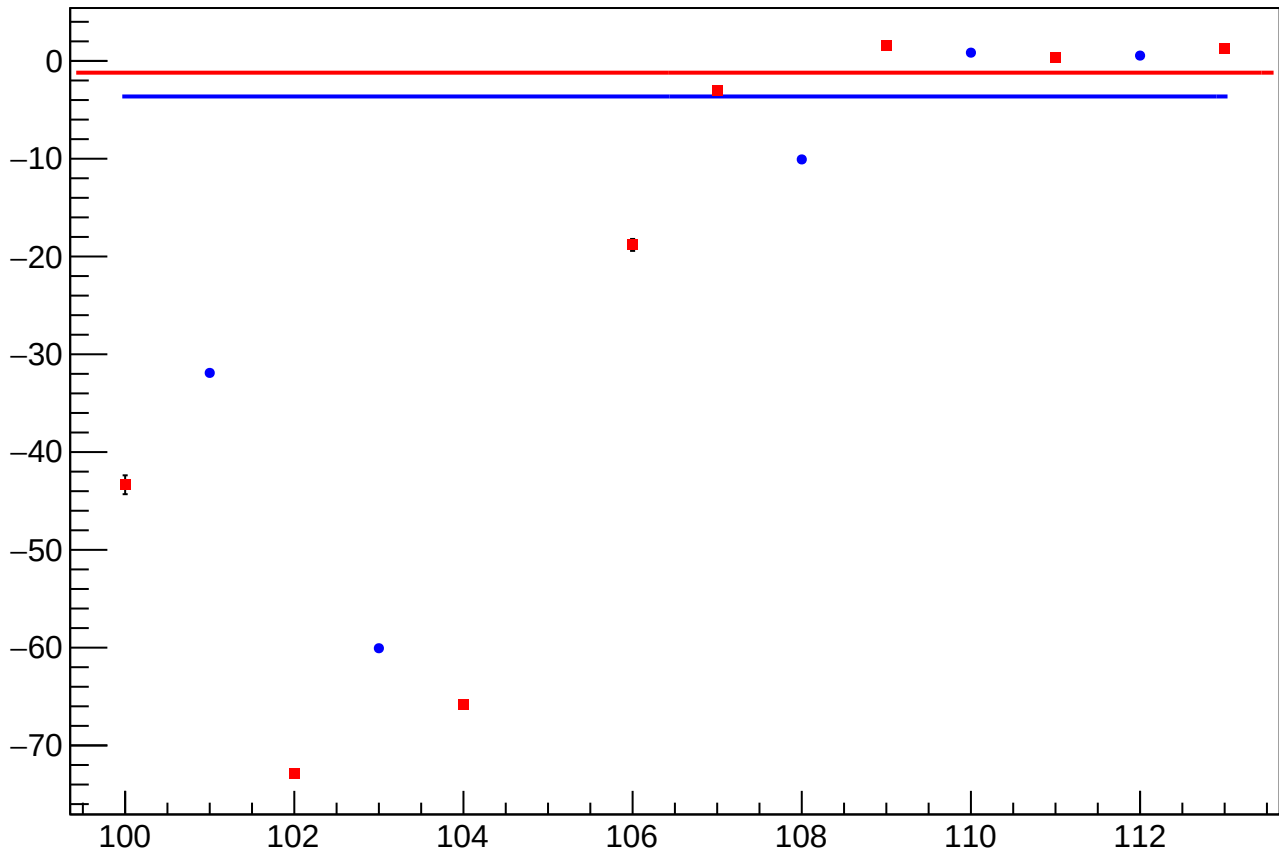
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-14.222 \pm 0.035$   $\chi^2/\text{NDF}: 470671.3/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug



Right In: -3.635+/-0.076  $\chi^2/\text{NDF}$ : 29240.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.201+/-0.056  $\chi^2/\text{NDF}$ : 47466.5/7

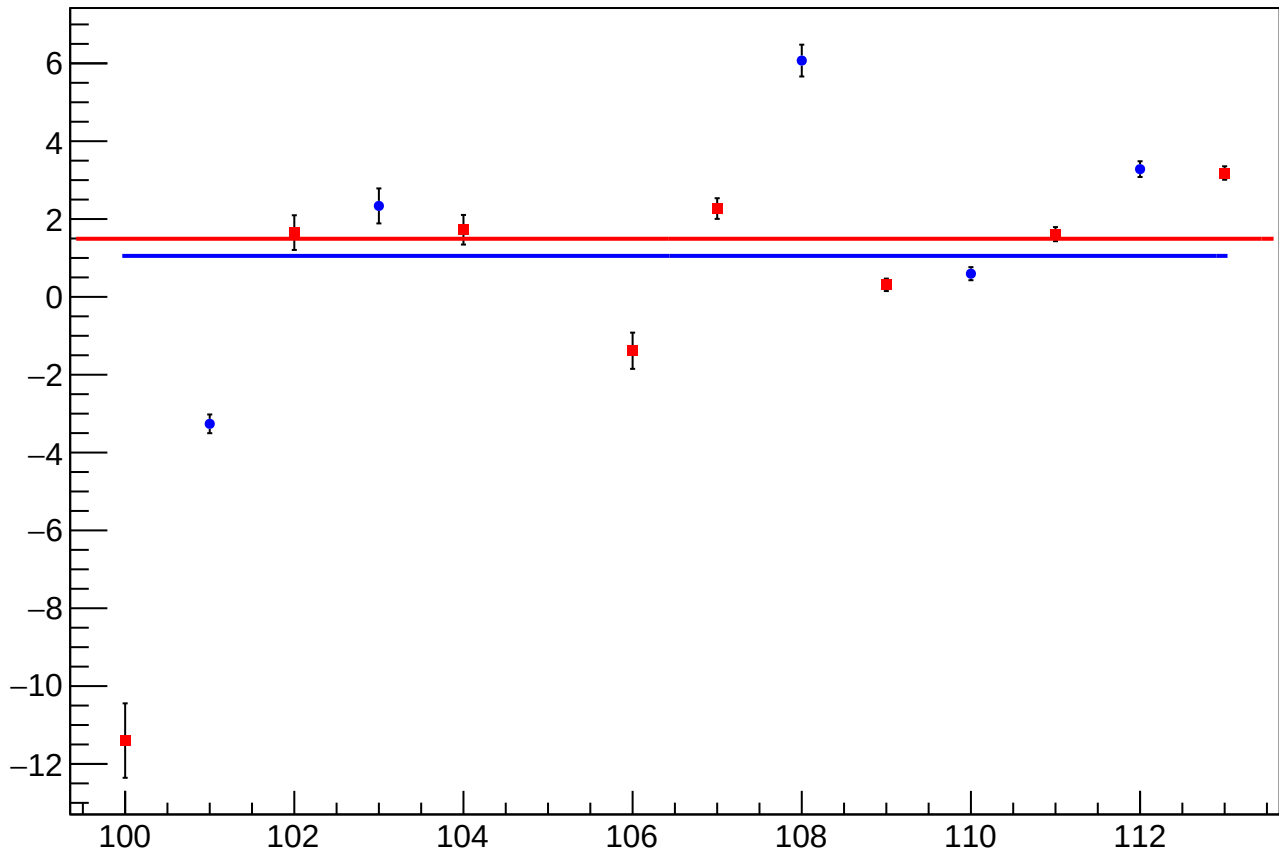
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.045+/-0.045  $\chi^2/\text{NDF}$ : 77369.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug



Right In: 1.053+/-0.107  $\chi^2/\text{NDF}$ : 609.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.493+/-0.086  $\chi^2/\text{NDF}$ : 380.2/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

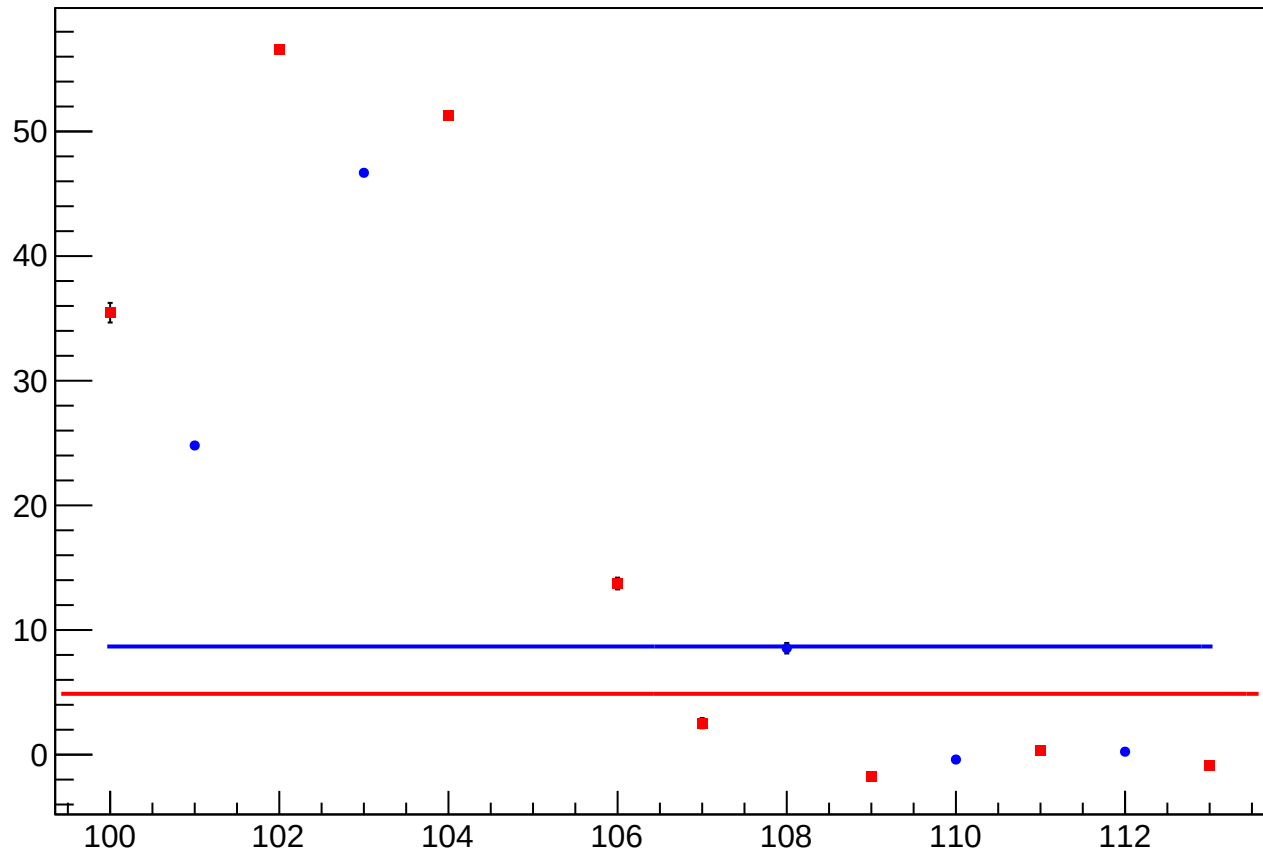
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.320+/-0.067  $\chi^2/\text{NDF}$ : 999.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug



Right In: 8.679+/-0.098  $\chi^2/\text{NDF}$ : 23007.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.882+/-0.078  $\chi^2/\text{NDF}$ : 42788.2/7

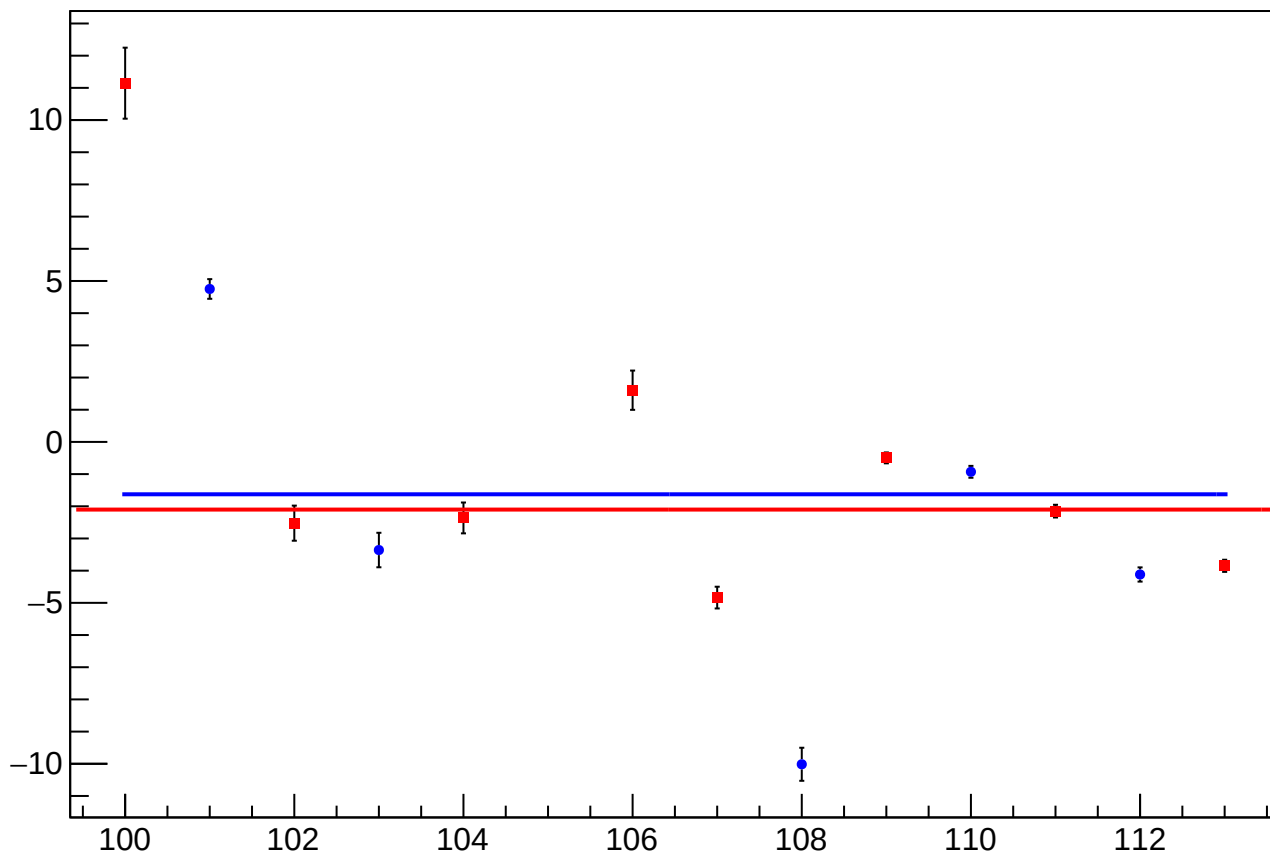
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.356+/-0.061  $\chi^2/\text{NDF}$ : 66721.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.627 \pm 0.121$   $\chi^2/\text{NDF}$ : 854.6/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.102 \pm 0.096$   $\chi^2/\text{NDF}$ : 423.2/7

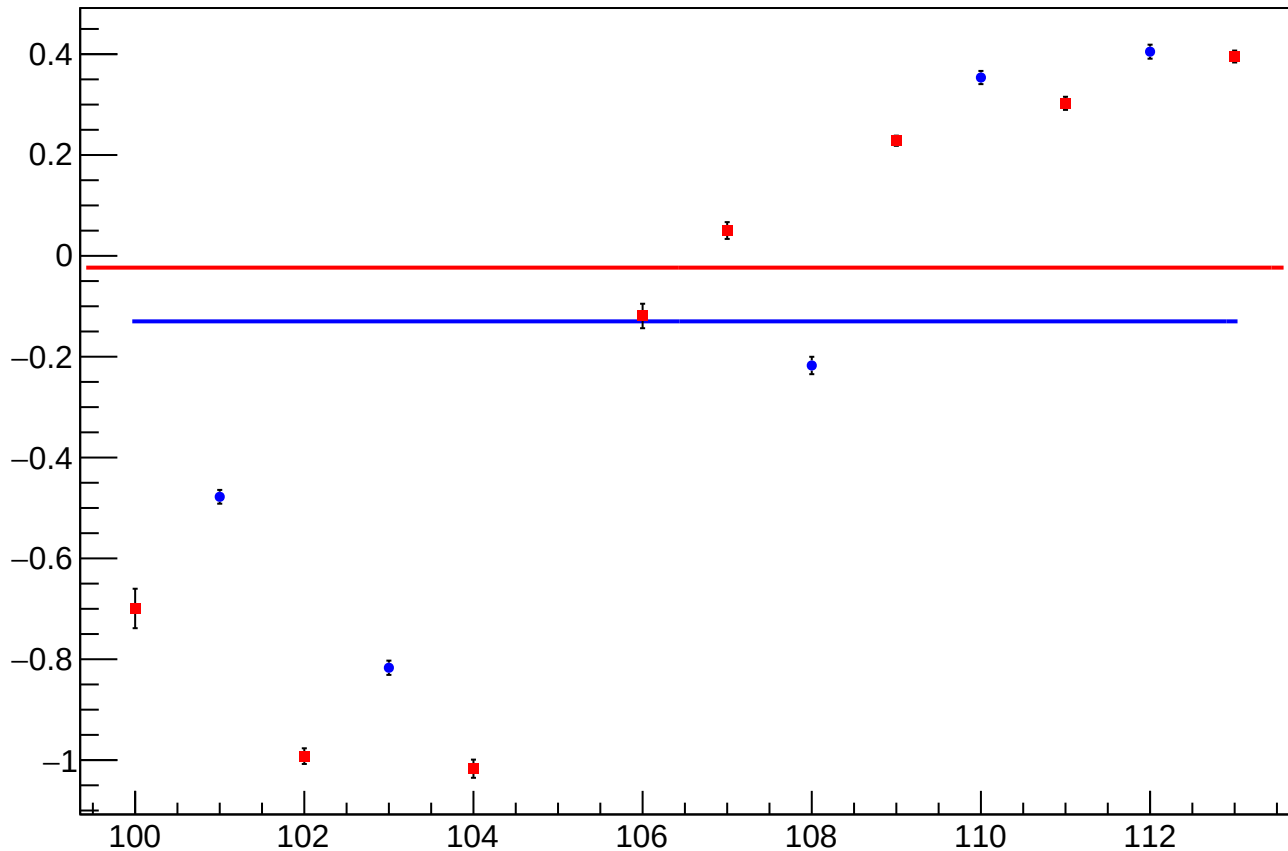
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.919 \pm 0.075$   $\chi^2/\text{NDF}$ : 1287.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug



Right In: -0.130 $\pm$ 0.006  $\chi^2$ /NDF: 5877.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.023 $\pm$ 0.005  $\chi^2$ /NDF: 9764.0/7

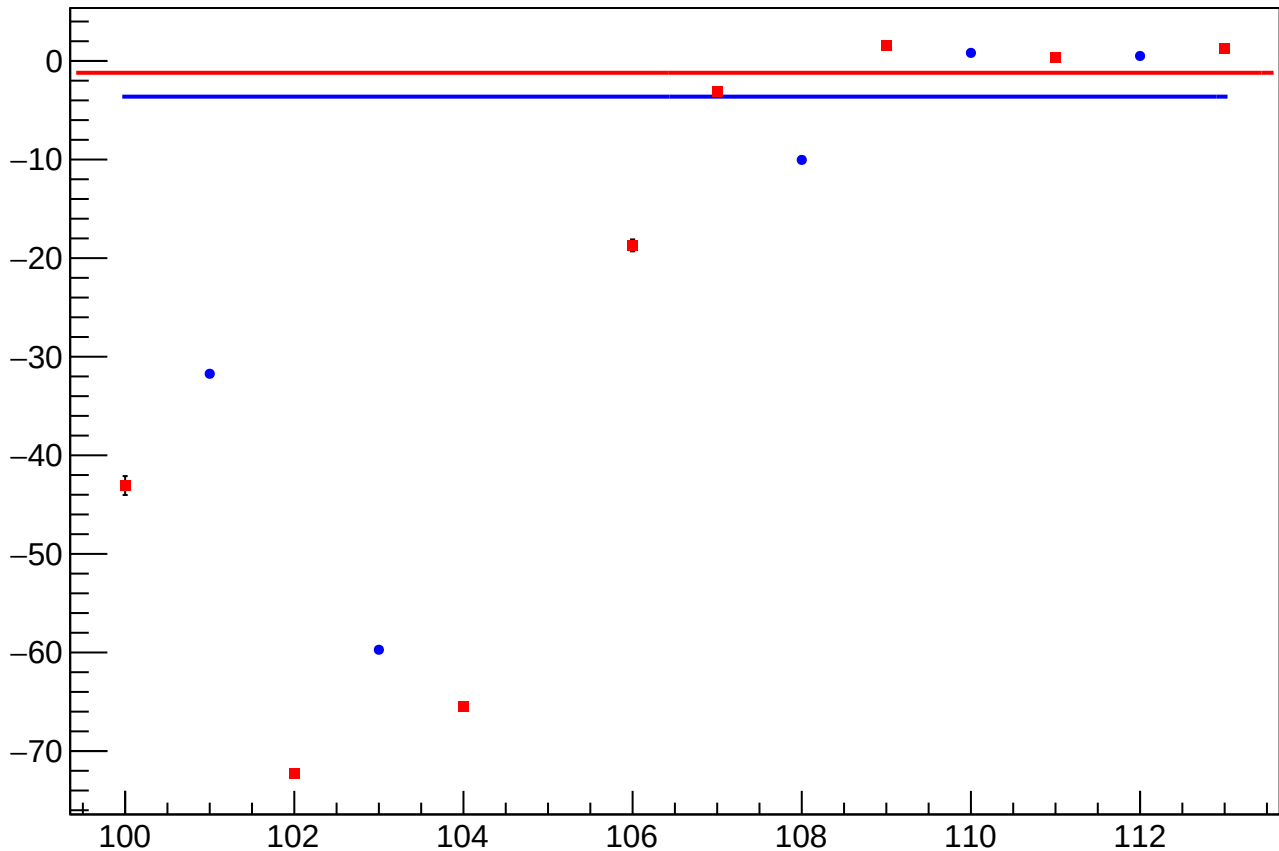
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.067 $\pm$ 0.004  $\chi^2$ /NDF: 15807.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_bcm\_an\_ds\_diff\_bpm1X\_slope vs Slug



Right In: -3.619+/-0.076  $\chi^2/\text{NDF}$ : 29198.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.199+/-0.055  $\chi^2/\text{NDF}$ : 47428.0/7

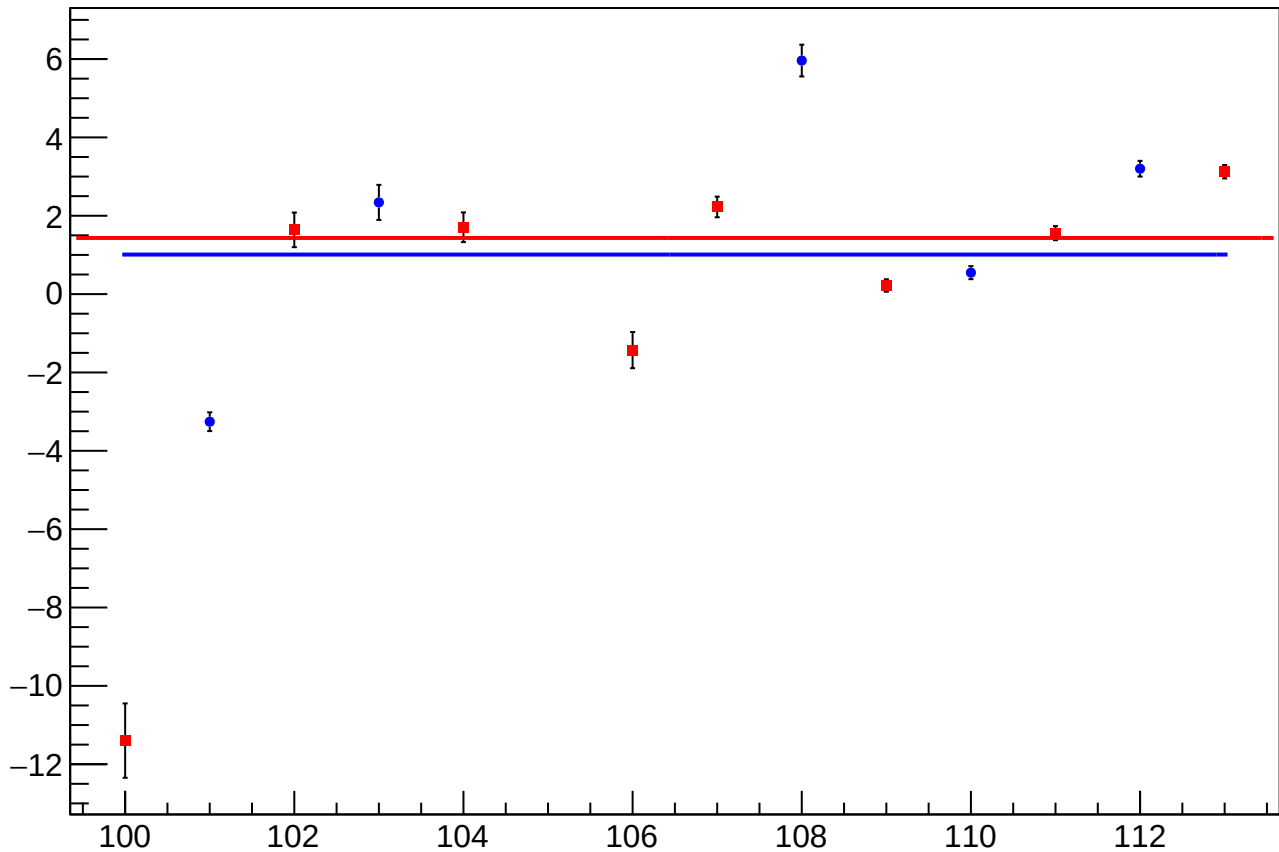
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.037+/-0.045  $\chi^2/\text{NDF}$ : 77292.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug



Right In: 1.009 $\pm$ 0.106  $\chi^2$ /NDF: 602.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.433 $\pm$ 0.085  $\chi^2$ /NDF: 387.7/7

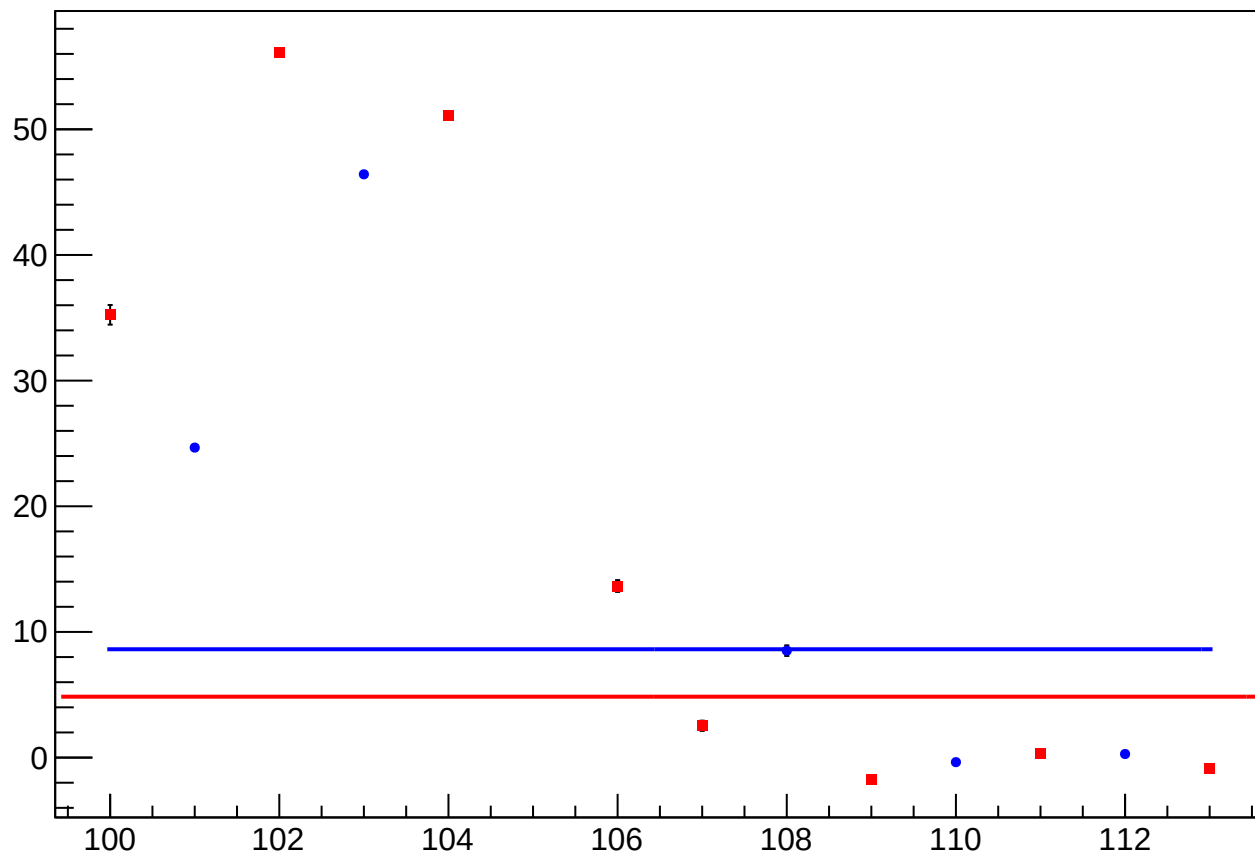
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.266 $\pm$ 0.066  $\chi^2$ /NDF: 1000.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug



Right In: 8.622 $\pm$ 0.097  $\chi^2$ /NDF: 22975.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.847 $\pm$ 0.077  $\chi^2$ /NDF: 42755.9/7

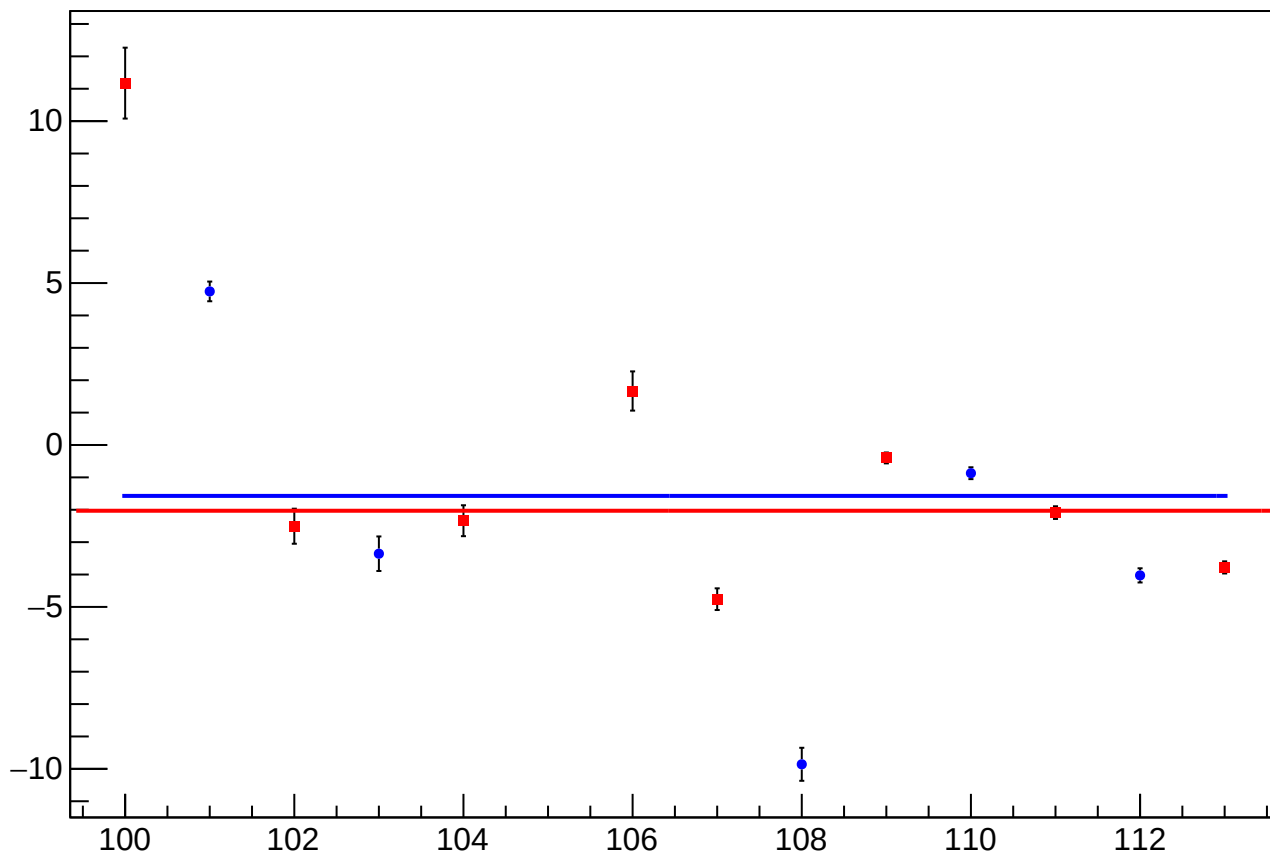
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.312 $\pm$ 0.060  $\chi^2$ /NDF: 66659.6/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.572 \pm 0.120$   $\chi^2/\text{NDF}$ : 847.2/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.030 \pm 0.095$   $\chi^2/\text{NDF}$ : 432.1/7

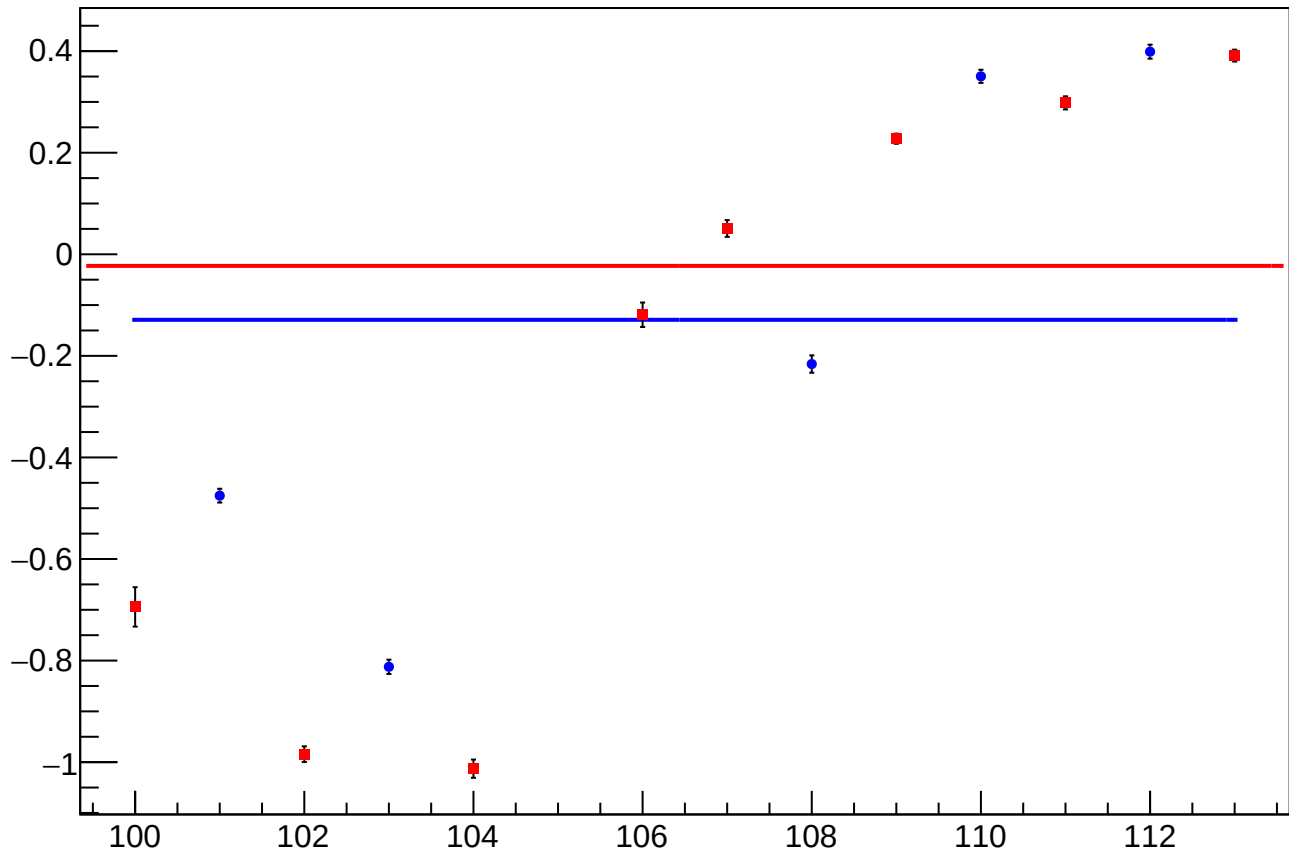
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.854 \pm 0.075$   $\chi^2/\text{NDF}$ : 1288.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug



Right In: -0.129 $\pm$ 0.006  $\chi^2$ /NDF: 5860.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.023 $\pm$ 0.005  $\chi^2$ /NDF: 9756.1/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

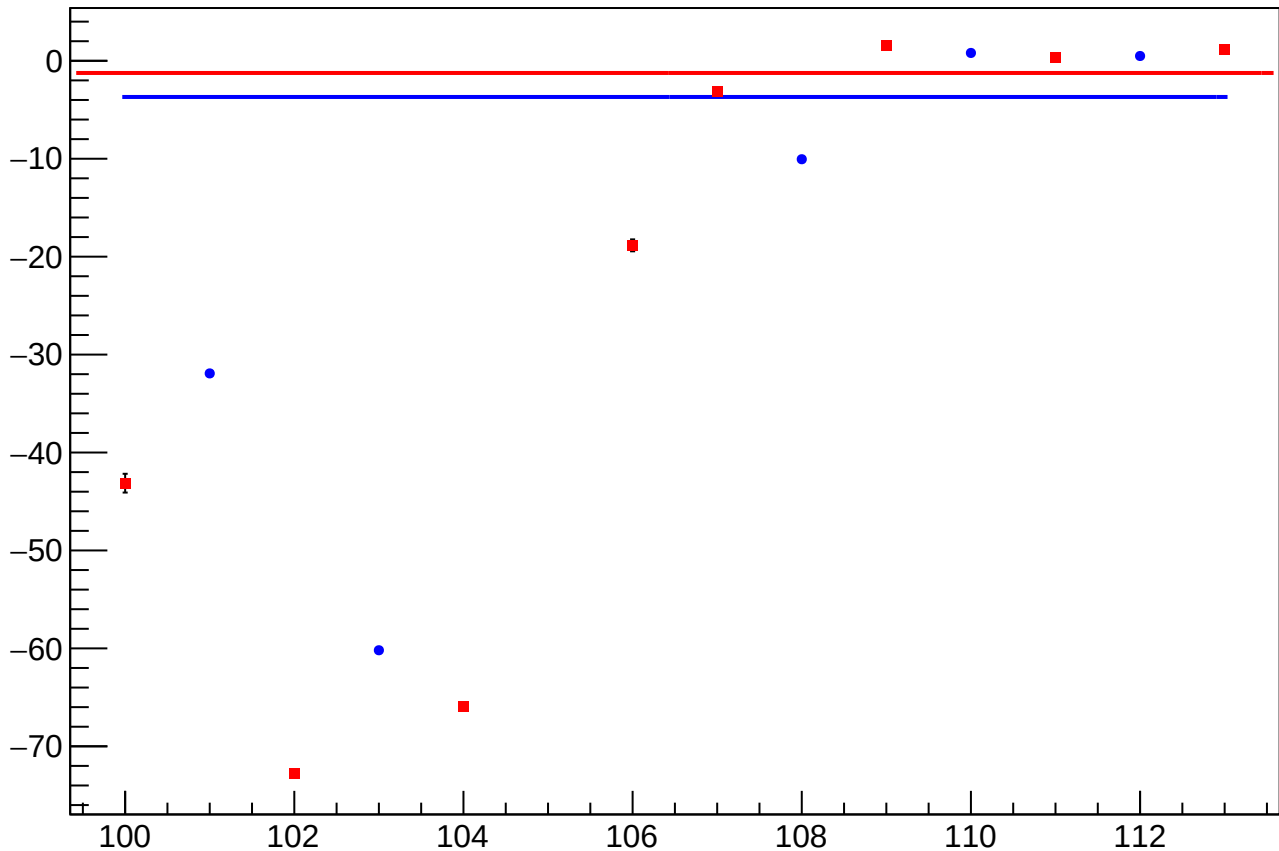
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.066 $\pm$ 0.004  $\chi^2$ /NDF: 15784.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_bcm\_an\_us\_diff\_bpm1X\_slope vs Slug



Right In: -3.692+/-0.077  $\chi^2/\text{NDF}$ : 29203.9/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.242+/-0.056  $\chi^2/\text{NDF}$ : 47402.1/7

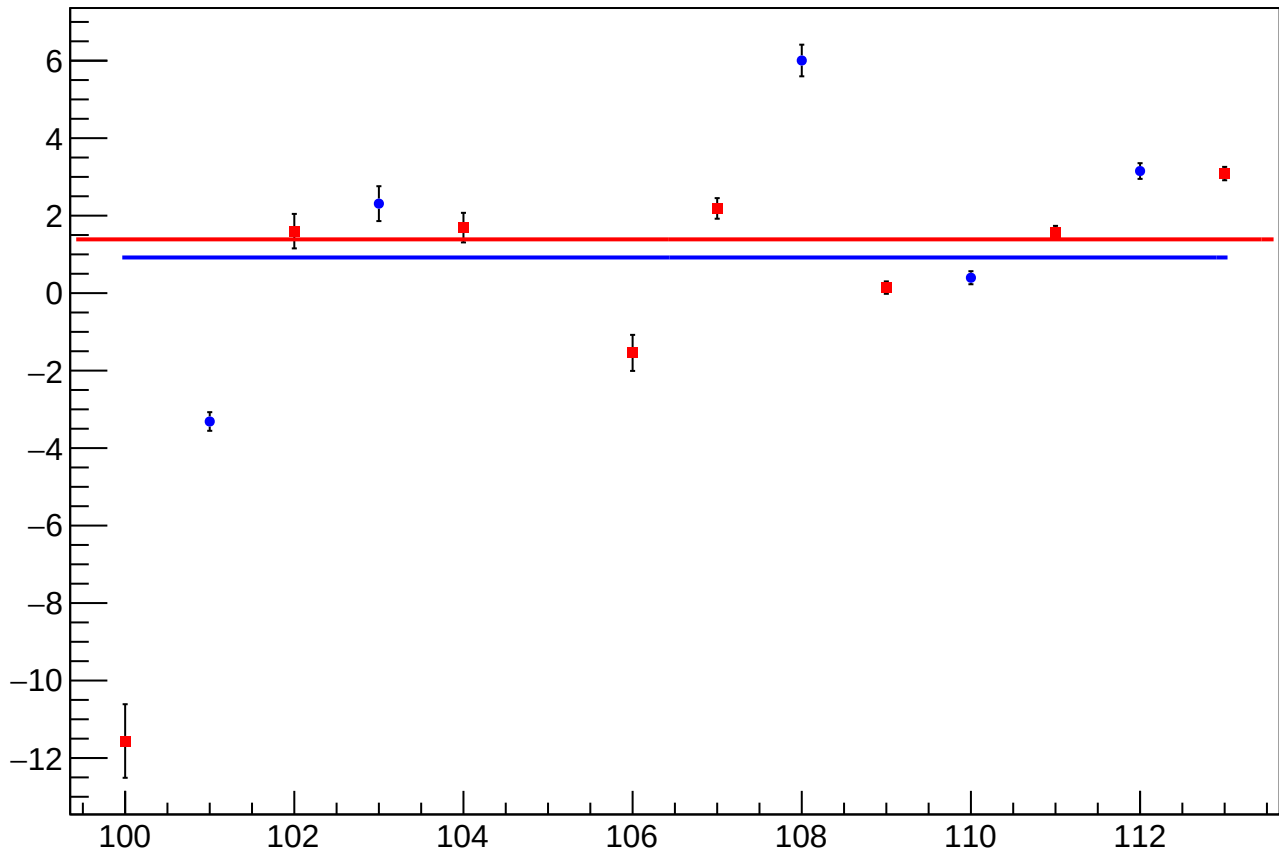
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.091+/-0.045  $\chi^2/\text{NDF}$ : 77275.4/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug



Right In: 0.920 $\pm$ 0.107  $\chi^2$ /NDF: 604.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.388 $\pm$ 0.086  $\chi^2$ /NDF: 393.4/7

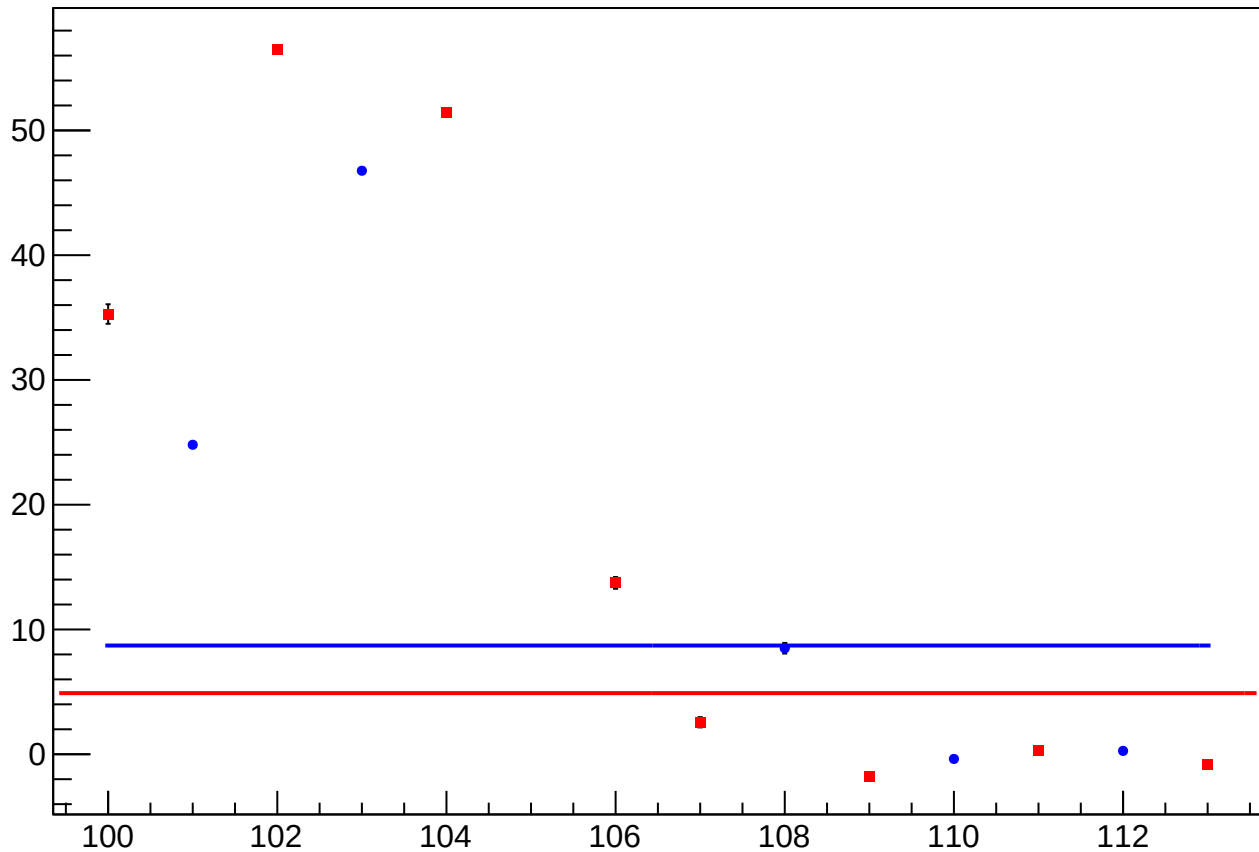
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.203 $\pm$ 0.067  $\chi^2$ /NDF: 1009.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs Slug



Right In: 8.713+/-0.098  $\chi^2/\text{NDF}$ : 22975.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.898+/-0.078  $\chi^2/\text{NDF}$ : 42735.8/7

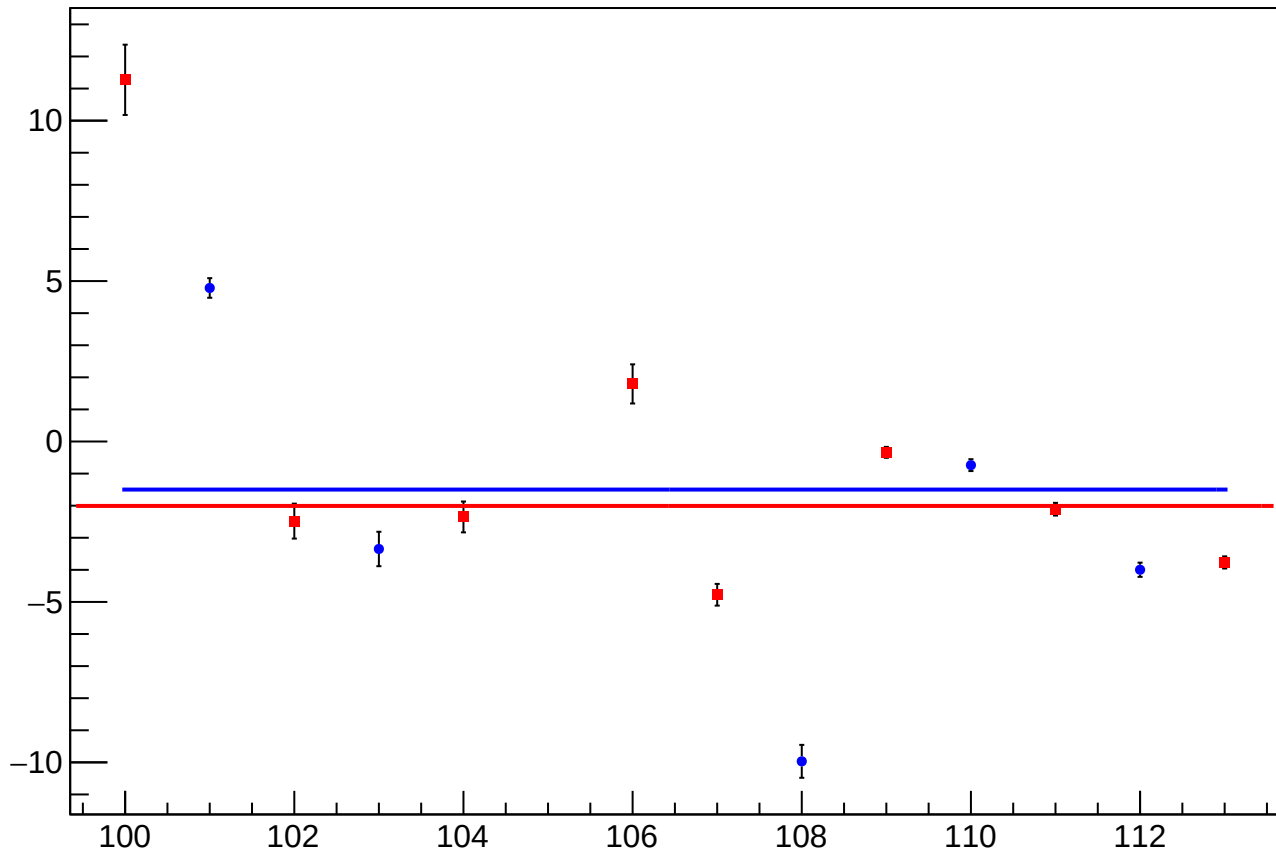
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.380+/-0.061  $\chi^2/\text{NDF}$ : 66641.9/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.498 \pm 0.122$   $\chi^2/\text{NDF}$ : 851.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.008 \pm 0.096$   $\chi^2/\text{NDF}$ : 437.8/7

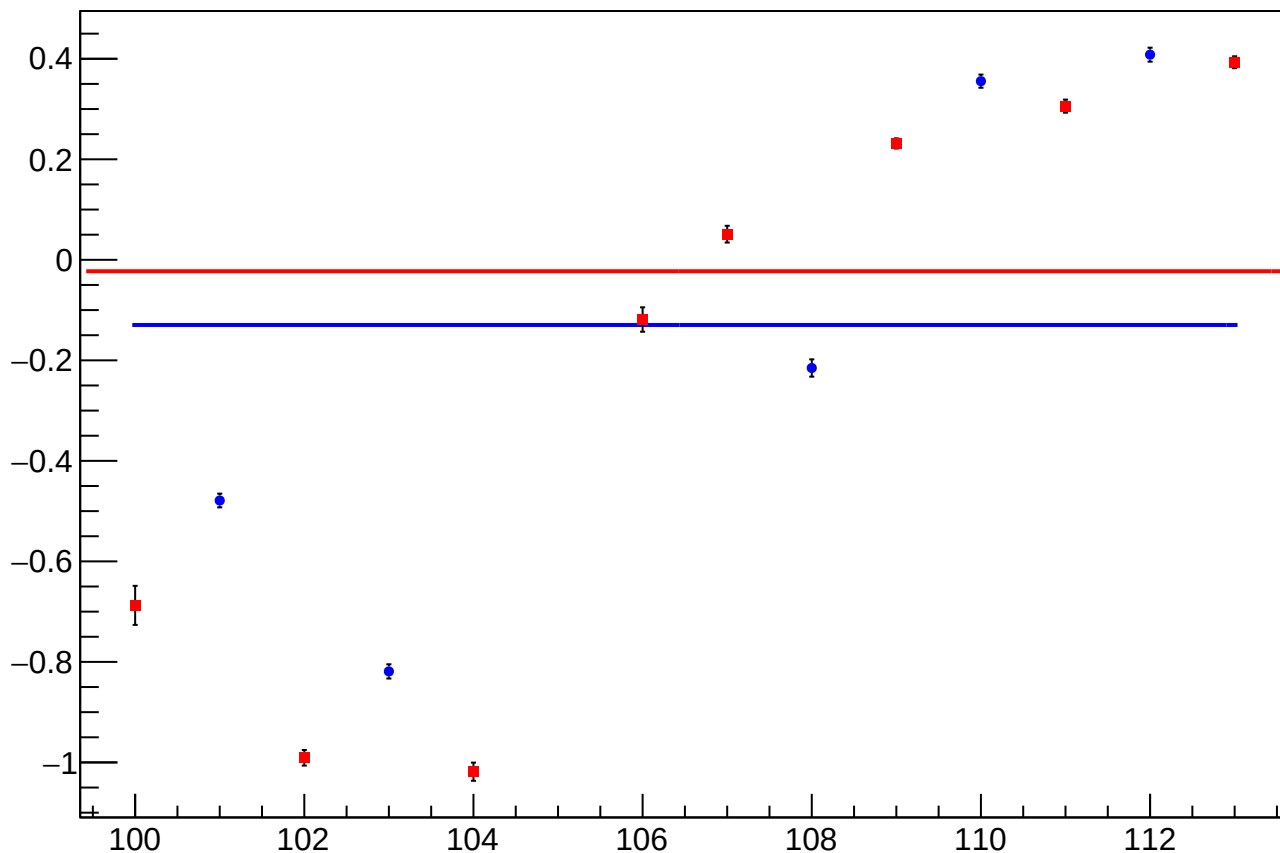
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.812 \pm 0.075$   $\chi^2/\text{NDF}$ : 1299.9/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug



Right In: -0.130 $\pm$ 0.006  $\chi^2$ /NDF: 5902.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.023 $\pm$ 0.005  $\chi^2$ /NDF: 9754.8/7

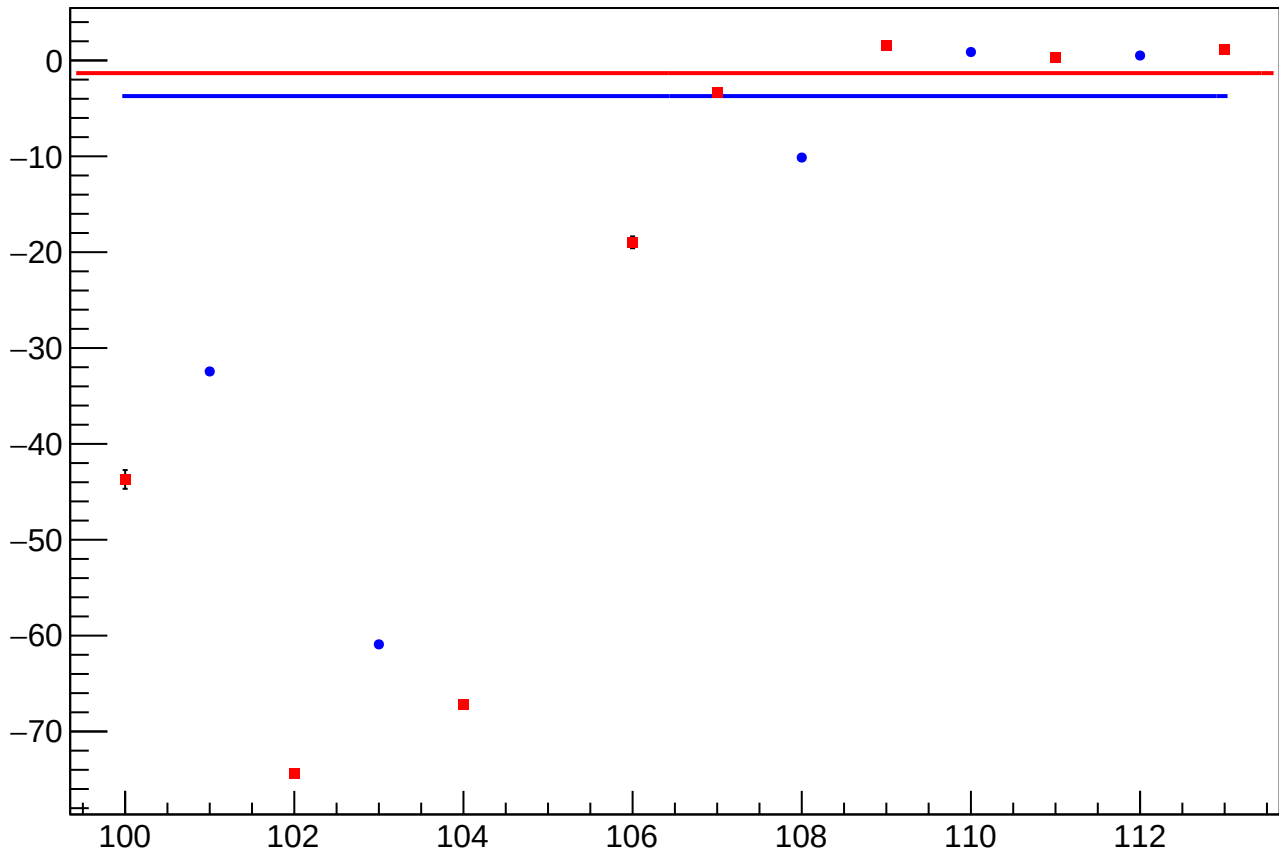
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.066 $\pm$ 0.004  $\chi^2$ /NDF: 15824.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm1X\_slope vs Slug



Right In:  $-3.718 \pm 0.078$   $\chi^2/\text{NDF}$ : 28835.1/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.322 \pm 0.057$   $\chi^2/\text{NDF}$ : 47088.1/7

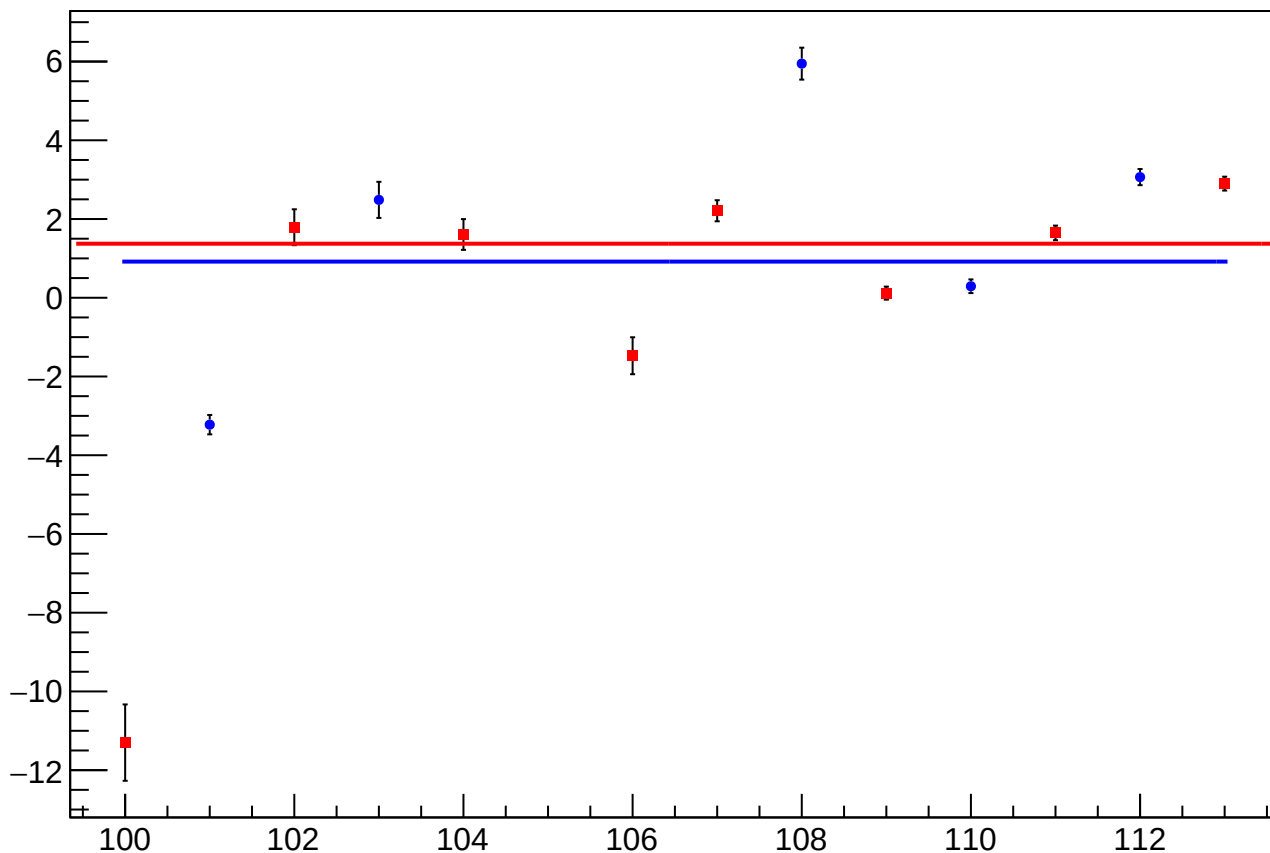
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.157 \pm 0.046$   $\chi^2/\text{NDF}$ : 76535.2/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug



Right In: 0.919+/-0.109  $\chi^2/\text{NDF}$ : 570.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.373+/-0.088  $\chi^2/\text{NDF}$ : 353.7/7

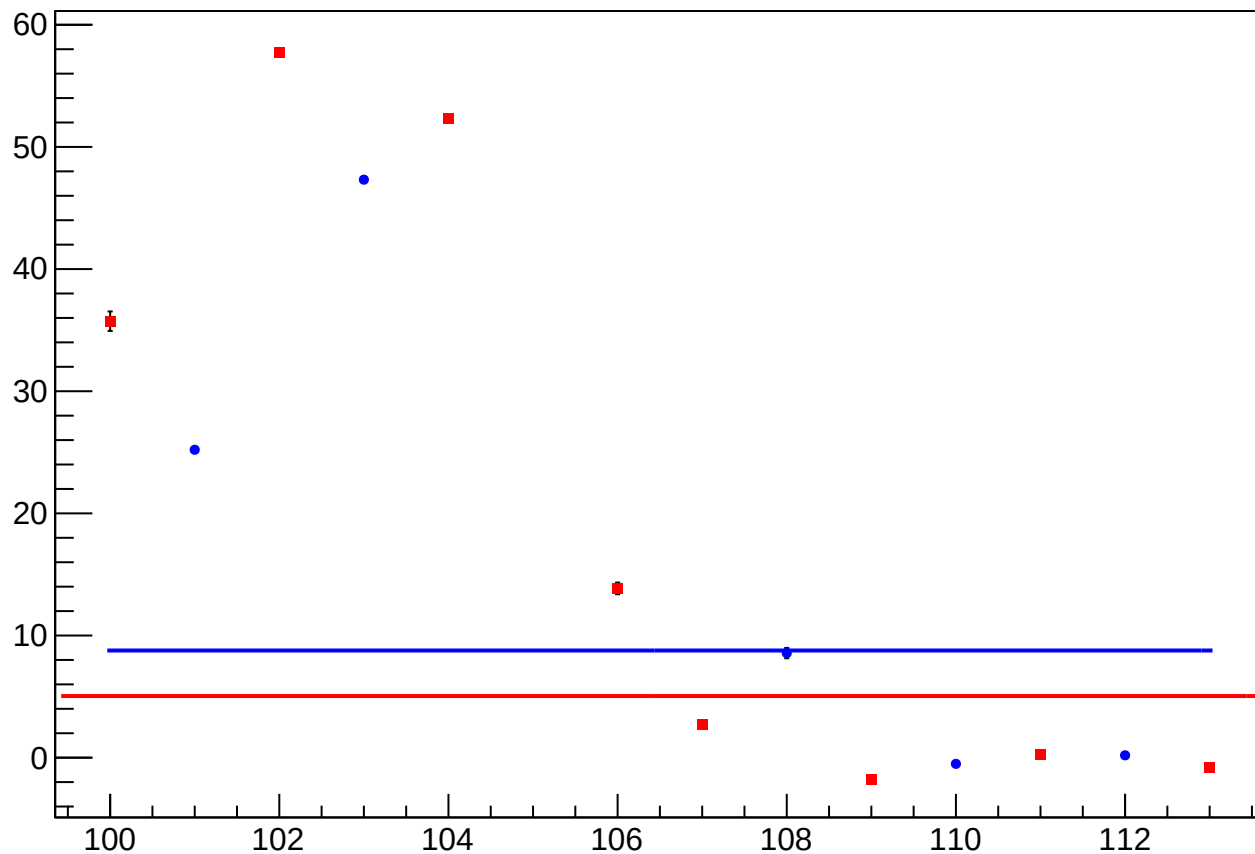
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.193+/-0.069  $\chi^2/\text{NDF}$ : 934.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug



Right In: 8.773+/-0.100  $\chi^2/\text{NDF}$ : 22752.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.045+/-0.080  $\chi^2/\text{NDF}$ : 42437.0/7

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

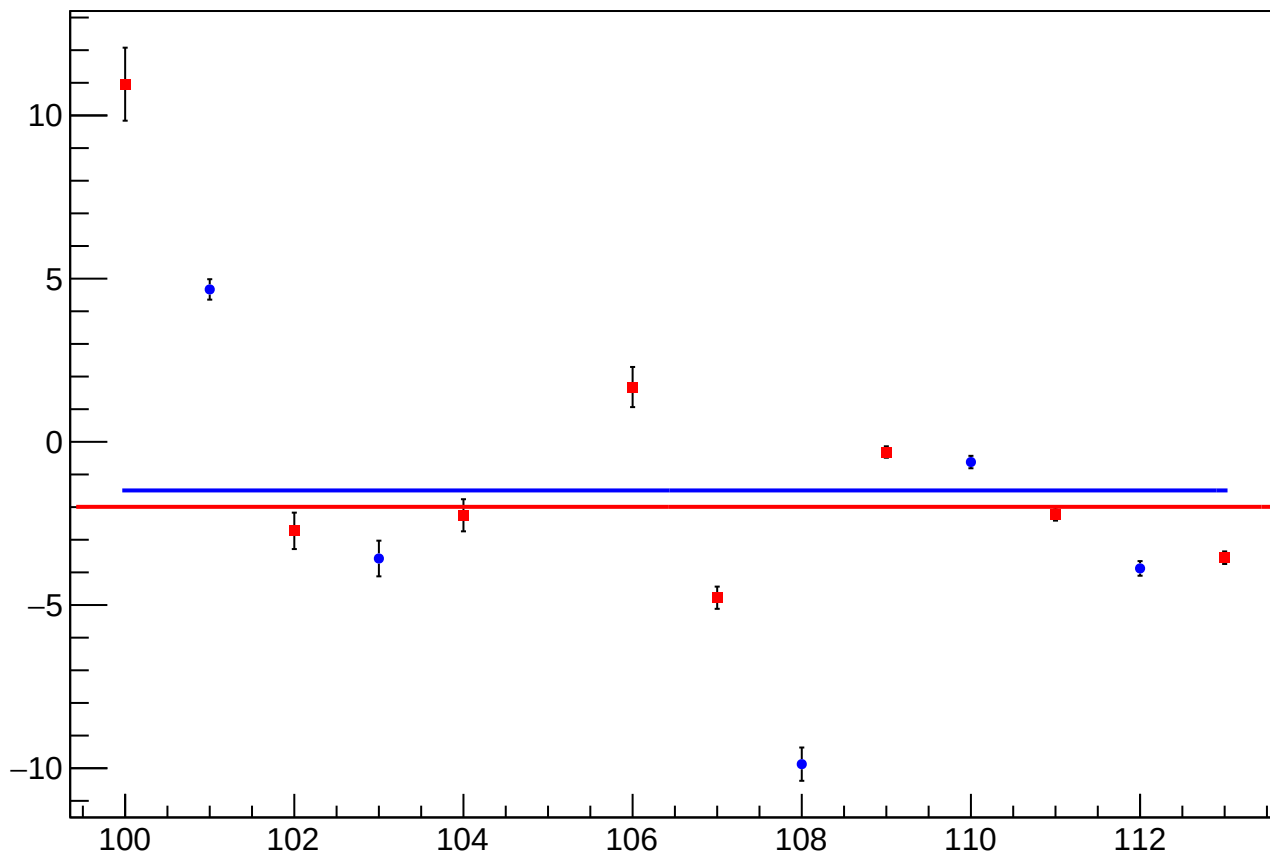
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.499+/-0.062  $\chi^2/\text{NDF}$ : 66040.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug



Right In: -1.489+/-0.124  $\chi^2/\text{NDF}$ : 806.7/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.992+/-0.098  $\chi^2/\text{NDF}$ : 397.2/7

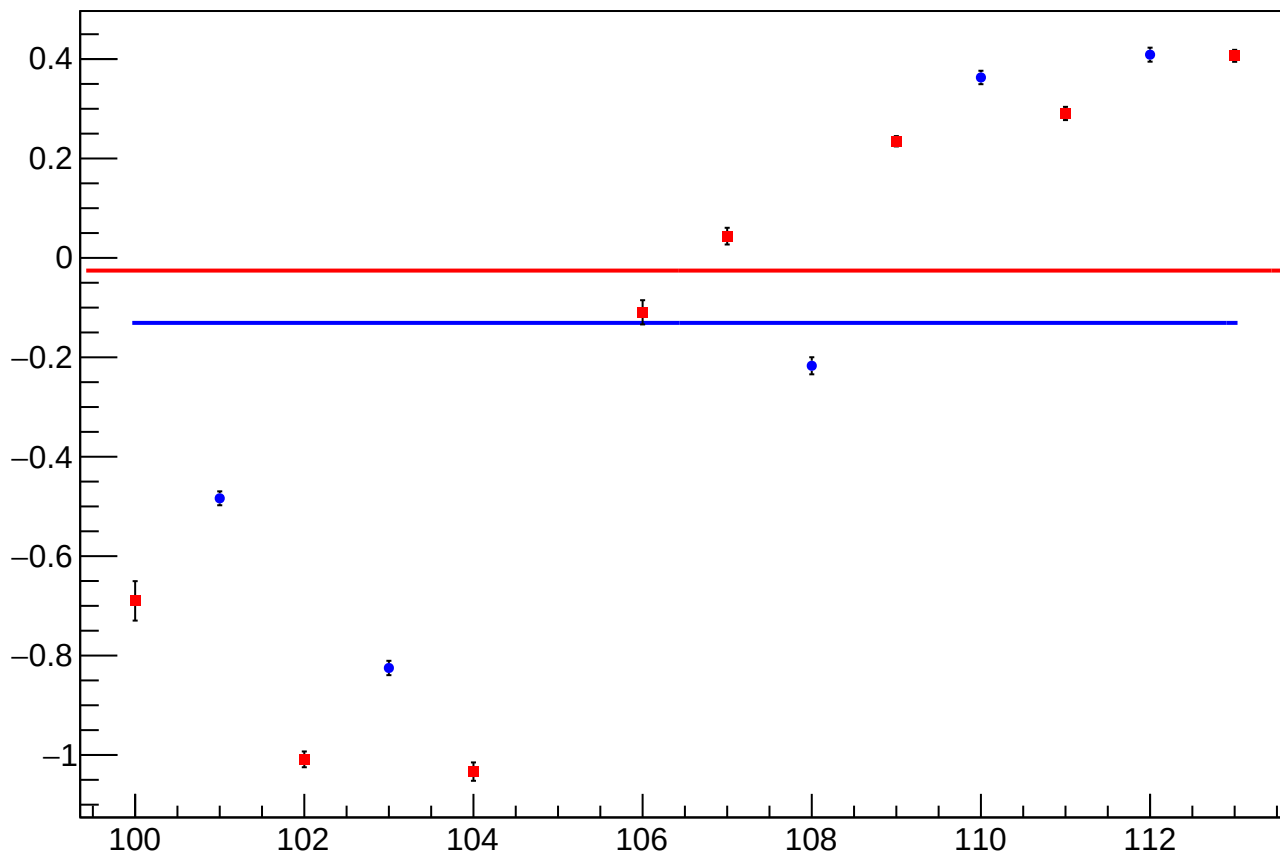
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.798+/-0.077  $\chi^2/\text{NDF}$ : 1214.0/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.131 \pm 0.006$   $\chi^2/\text{NDF}: 5770.4/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.025 \pm 0.005$   $\chi^2/\text{NDF}: 9587.0/7$

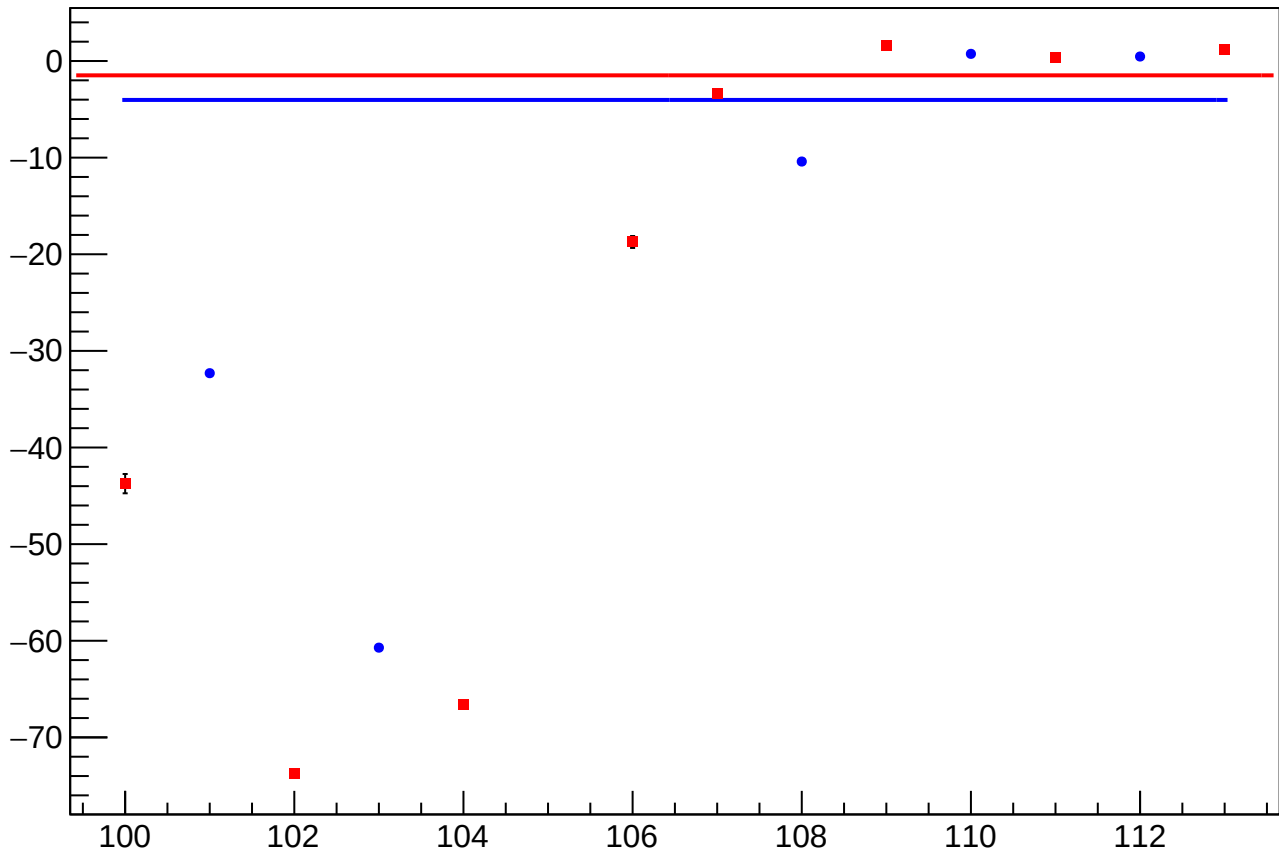
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.068 \pm 0.004$   $\chi^2/\text{NDF}: 15513.4/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_bcm\_dg\_us\_diff\_bpm1X\_slope vs Slug



Right In: -4.029 $\pm$ 0.081  $\chi^2$ /NDF: 28130.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.484 $\pm$ 0.059  $\chi^2$ /NDF: 46203.7/7

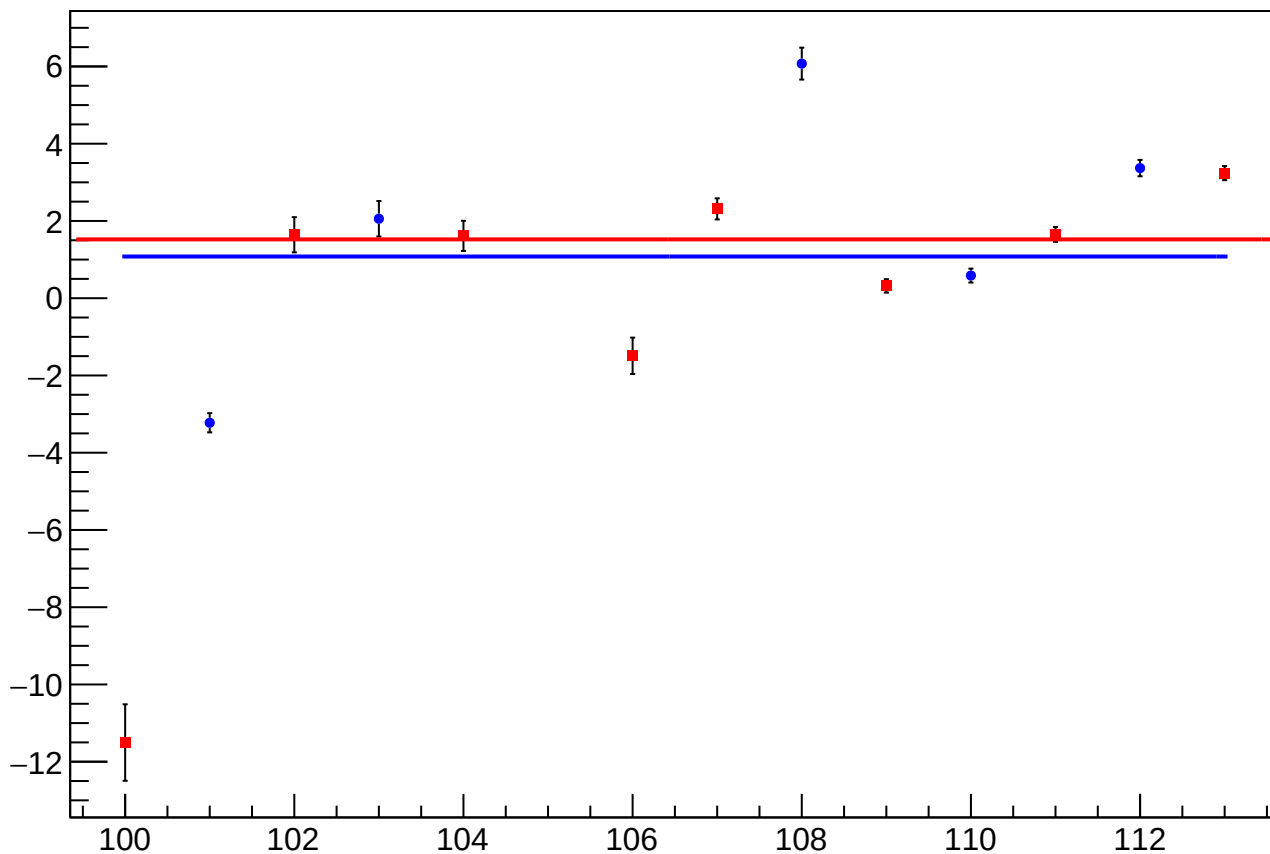
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2.379 $\pm$ 0.048  $\chi^2$ /NDF: 74979.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug



Right In: 1.079 $\pm$ 0.112  $\chi^2$ /NDF: 575.7/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.523 $\pm$ 0.091  $\chi^2$ /NDF: 359.6/7

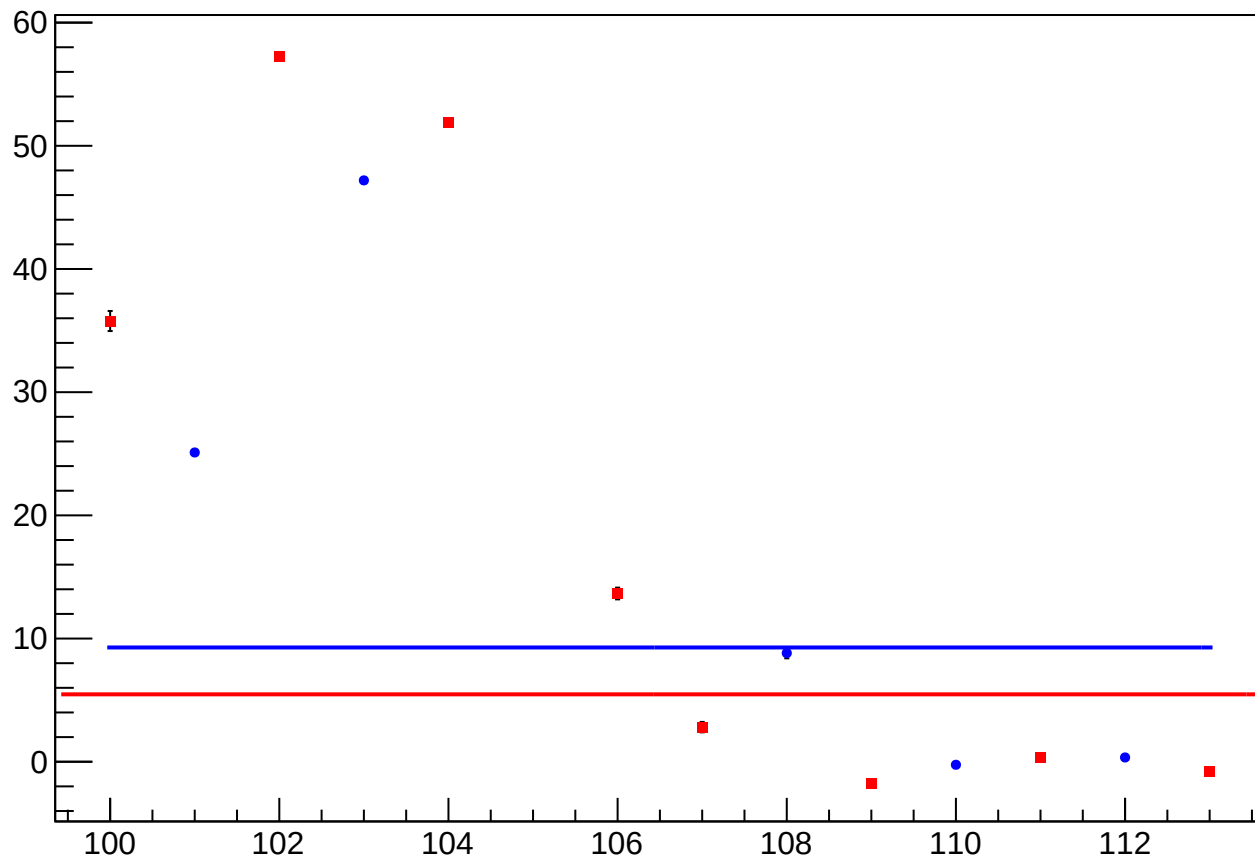
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.346 $\pm$ 0.071  $\chi^2$ /NDF: 944.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug



Right In: 9.276+/-0.102  $\chi^2/\text{NDF}$ : 21857.3/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.471+/-0.083  $\chi^2/\text{NDF}$ : 41280.0/7

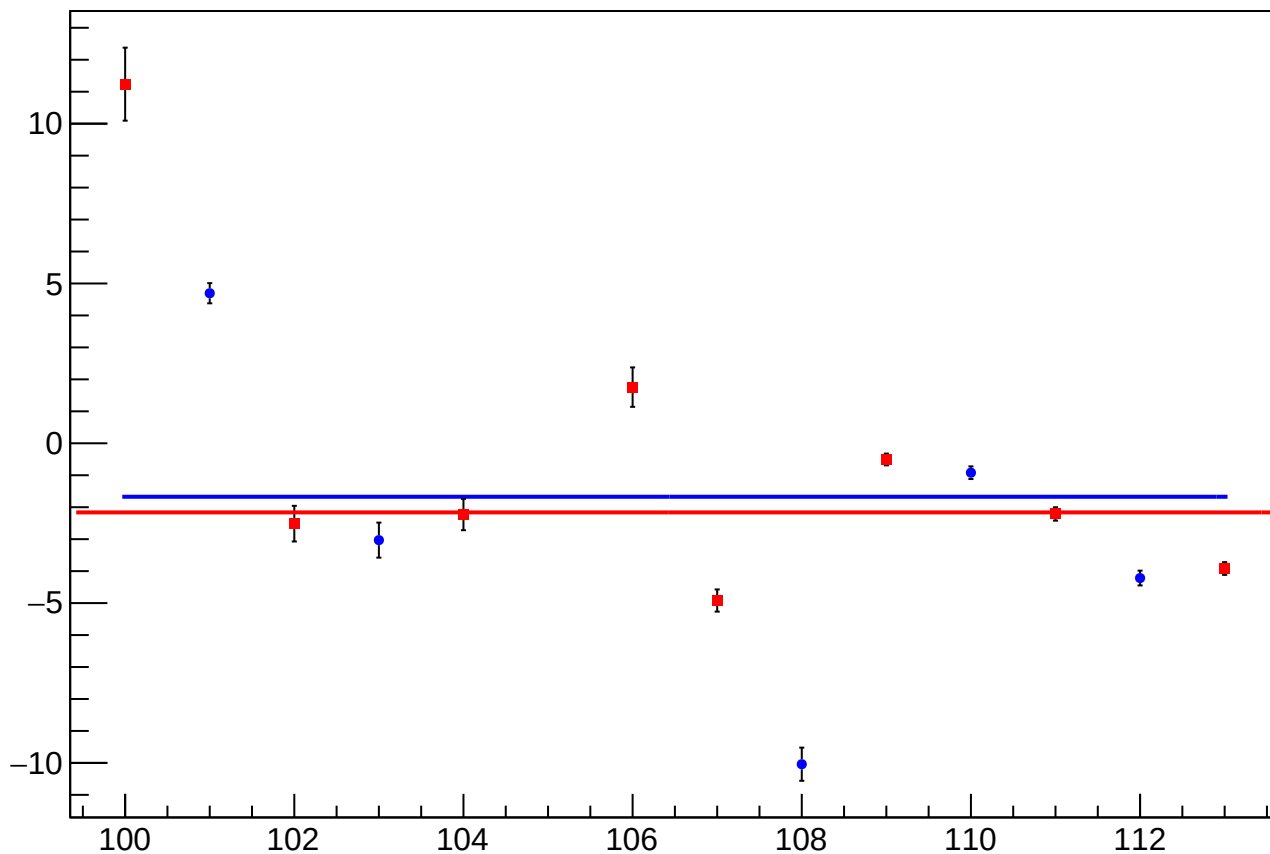
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.970+/-0.064  $\chi^2/\text{NDF}$ : 63973.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.673 \pm 0.128$   $\chi^2/\text{NDF}$ : 809.3/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.162 \pm 0.102$   $\chi^2/\text{NDF}$ : 399.7/7

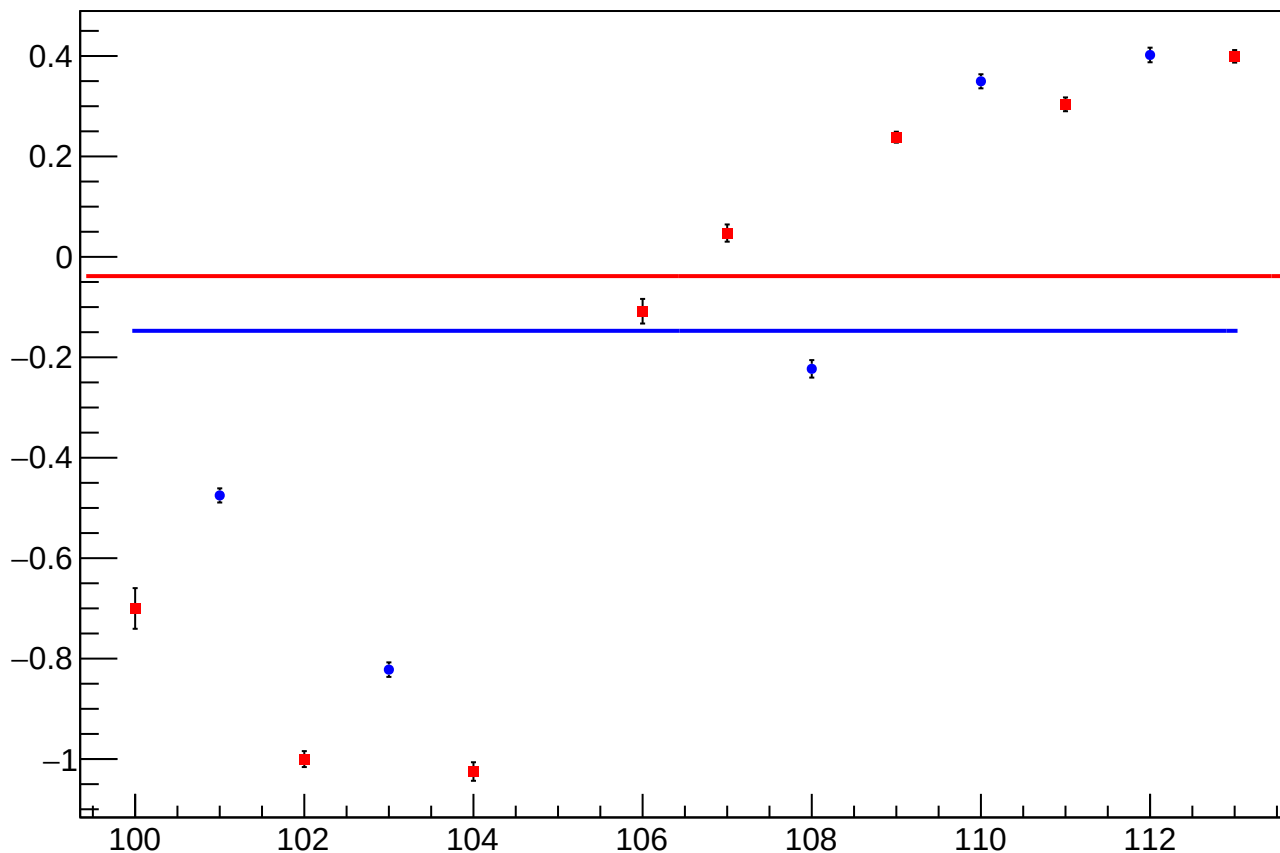
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.972 \pm 0.080$   $\chi^2/\text{NDF}$ : 1218.1/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug



Right In: -0.147 $\pm$ 0.007  $\chi^2$ /NDF: 5416.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.038 $\pm$ 0.006  $\chi^2$ /NDF: 9313.4/7

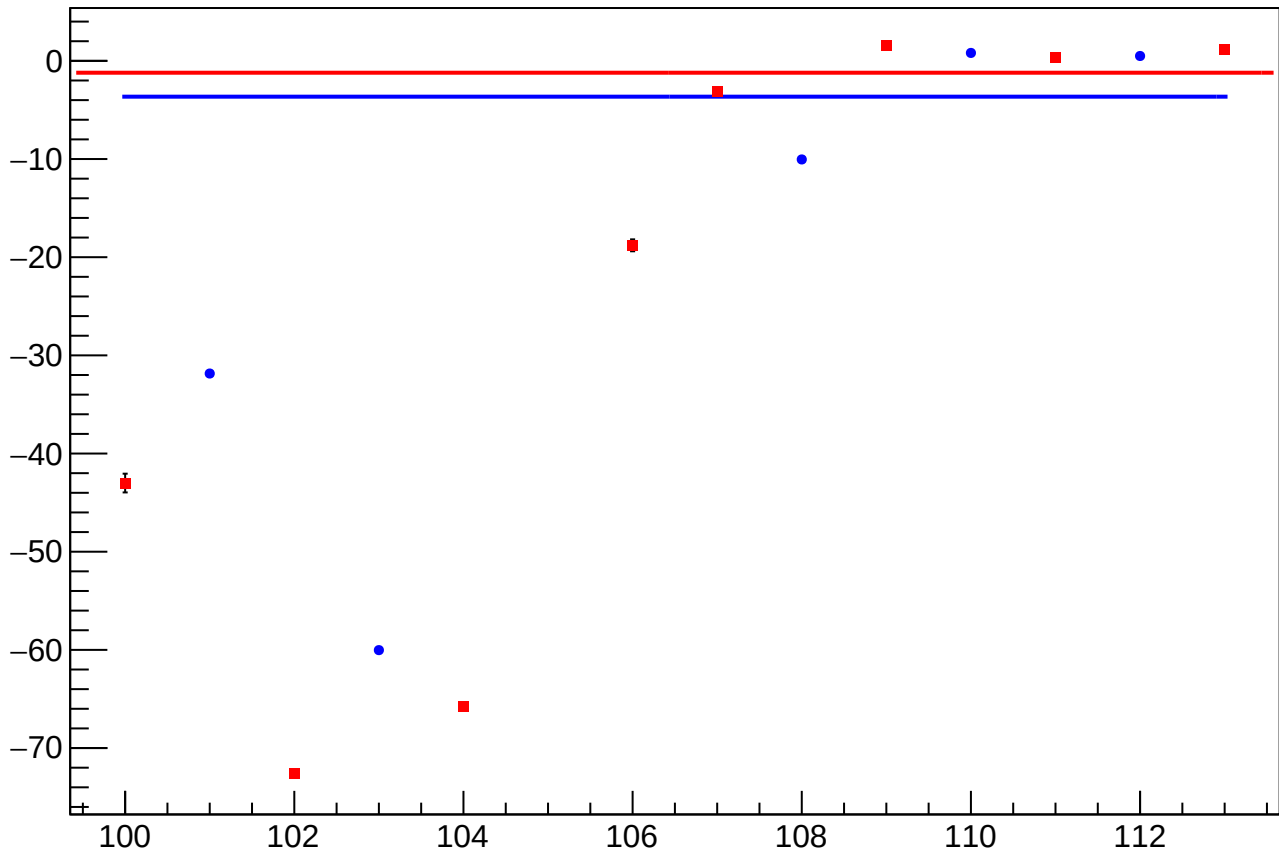
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.083 $\pm$ 0.004  $\chi^2$ /NDF: 14889.3/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -3.648 $\pm$ 0.076  $\chi^2$ /NDF: 29255.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.208 $\pm$ 0.055  $\chi^2$ /NDF: 47472.4/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

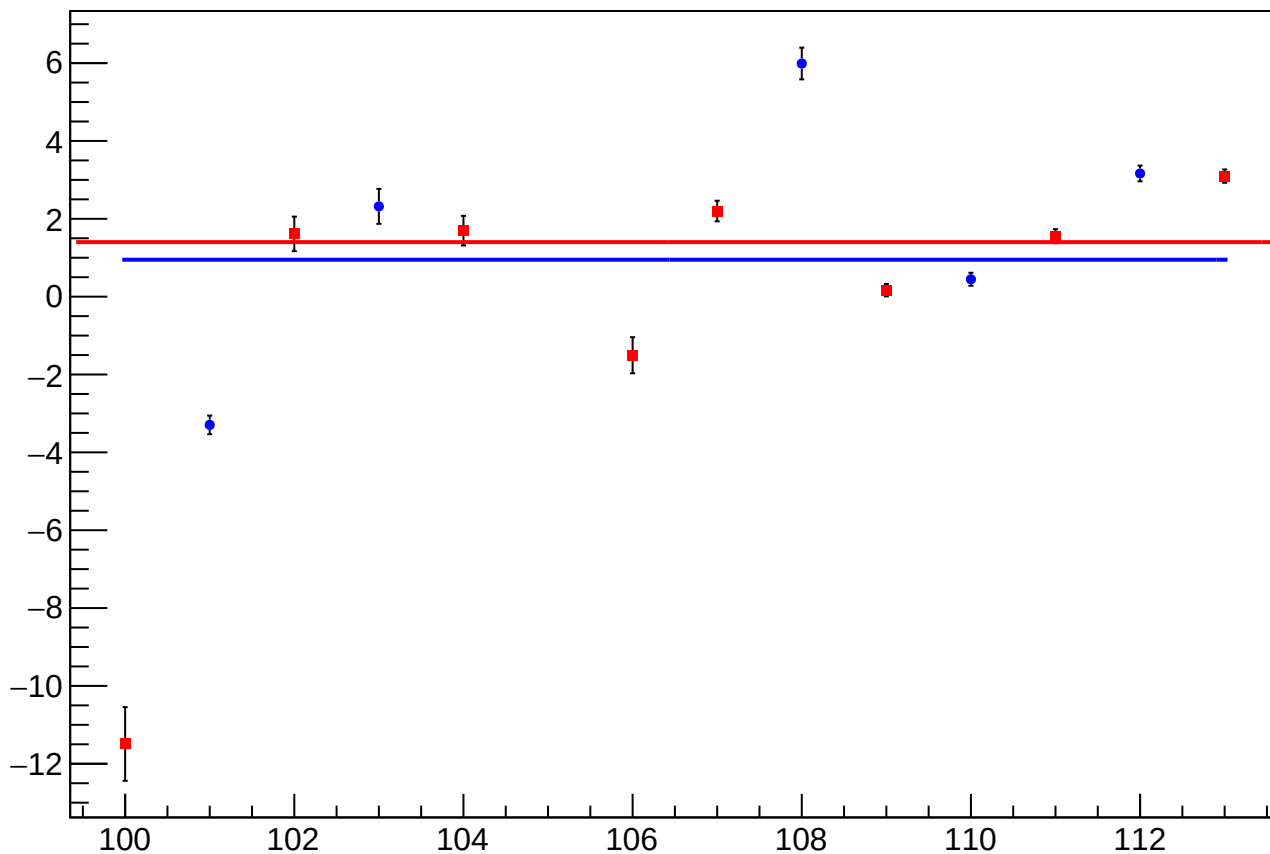
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2.052 $\pm$ 0.045  $\chi^2$ /NDF: 77400.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.949+/-0.106  $\chi^2/\text{NDF}$ : 605.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.401+/-0.086  $\chi^2/\text{NDF}$ : 393.8/7

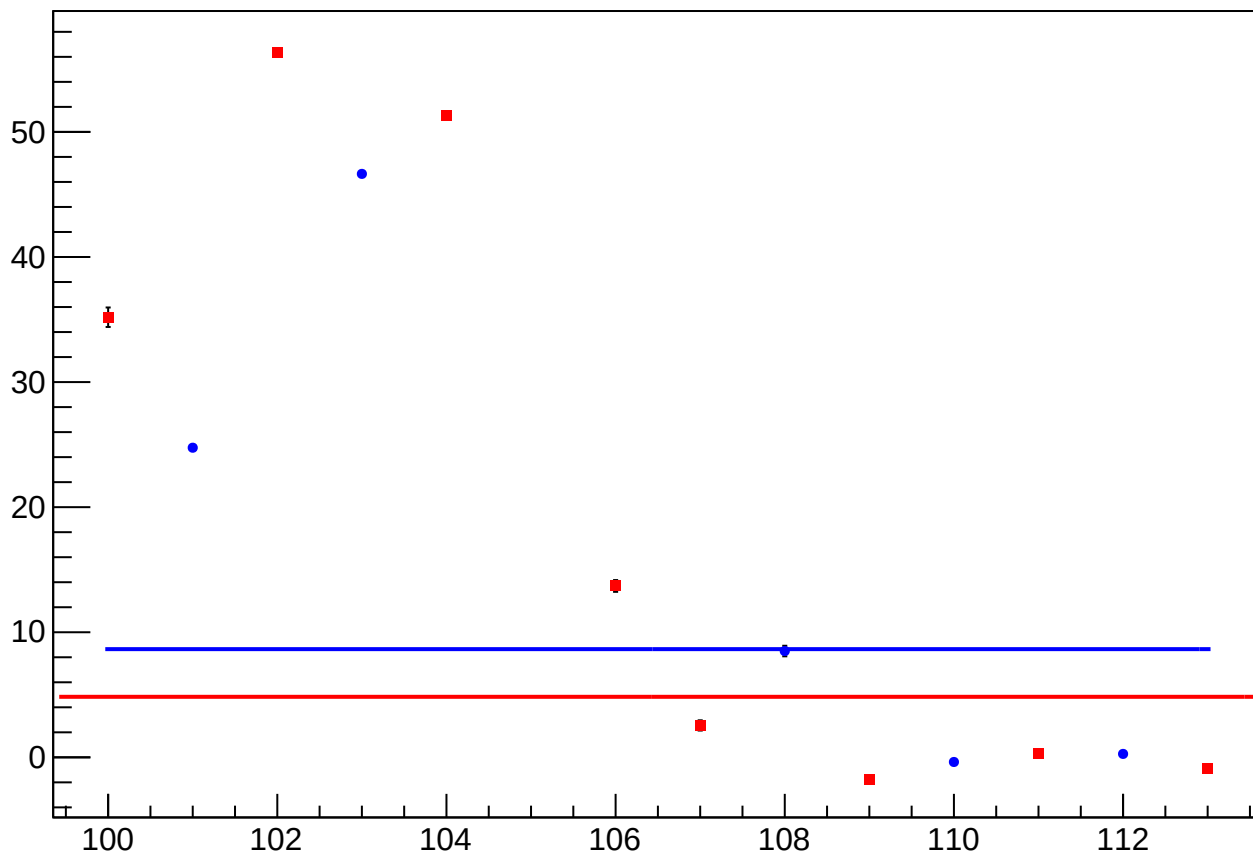
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.223+/-0.067  $\chi^2/\text{NDF}$ : 1010.1/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 8.650 $\pm$ 0.097  $\chi^2$ /NDF: 23033.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.839 $\pm$ 0.077  $\chi^2$ /NDF: 42825.3/7

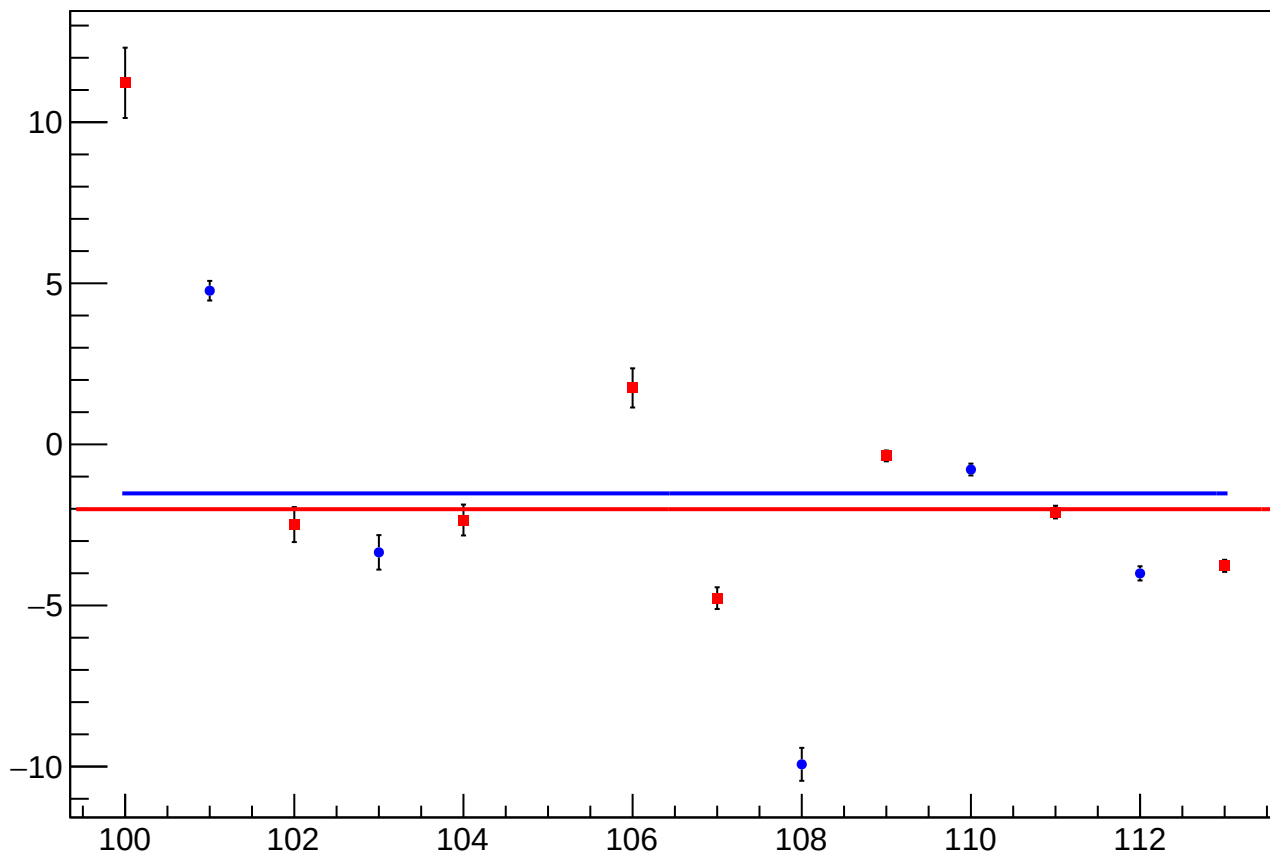
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.317 $\pm$ 0.061  $\chi^2$ /NDF: 66799.8/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.521 \pm 0.121$   $\chi^2/\text{NDF}$ : 851.7/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.012 \pm 0.095$   $\chi^2/\text{NDF}$ : 438.6/7

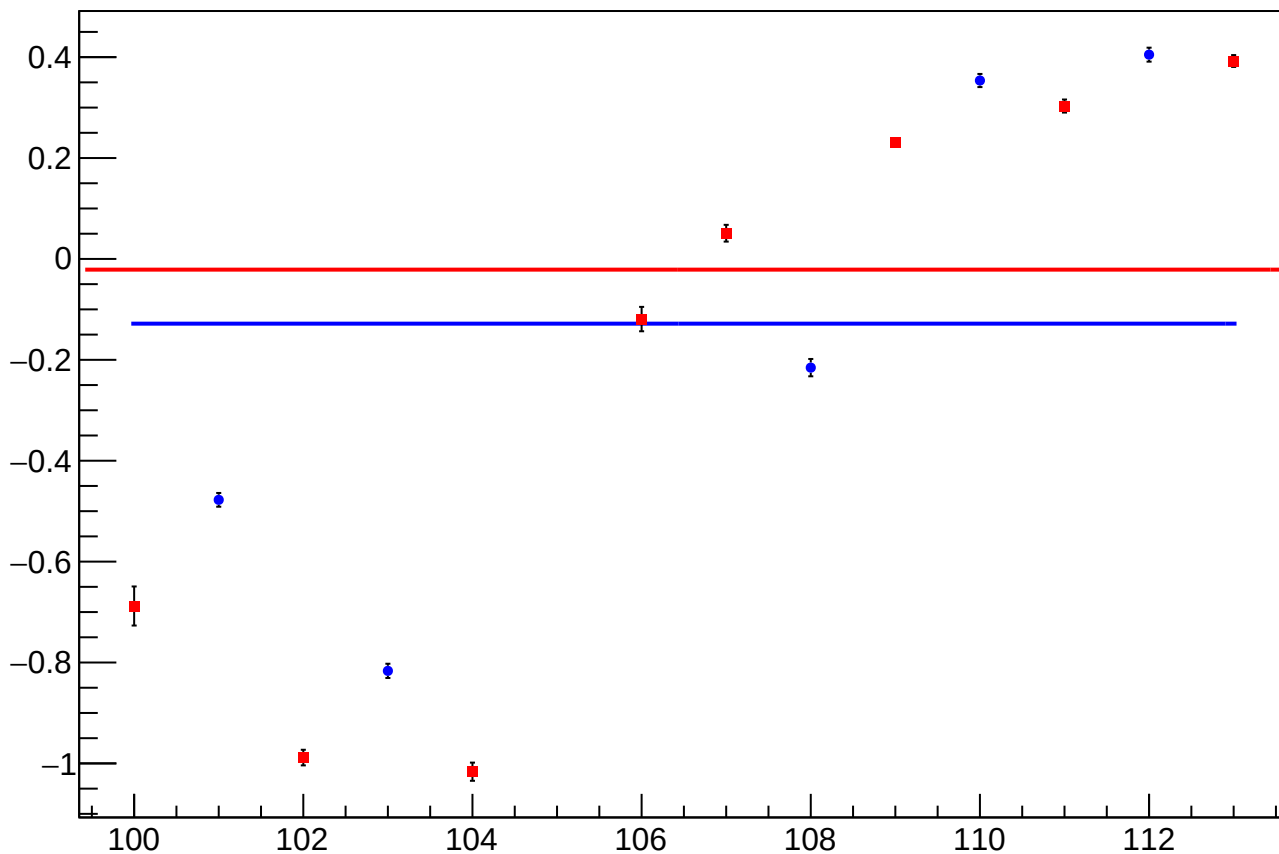
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.823 \pm 0.075$   $\chi^2/\text{NDF}$ : 1300.4/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.128+/-0.006  $\chi^2/\text{NDF}$ : 5909.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.021+/-0.005  $\chi^2/\text{NDF}$ : 9783.4/7

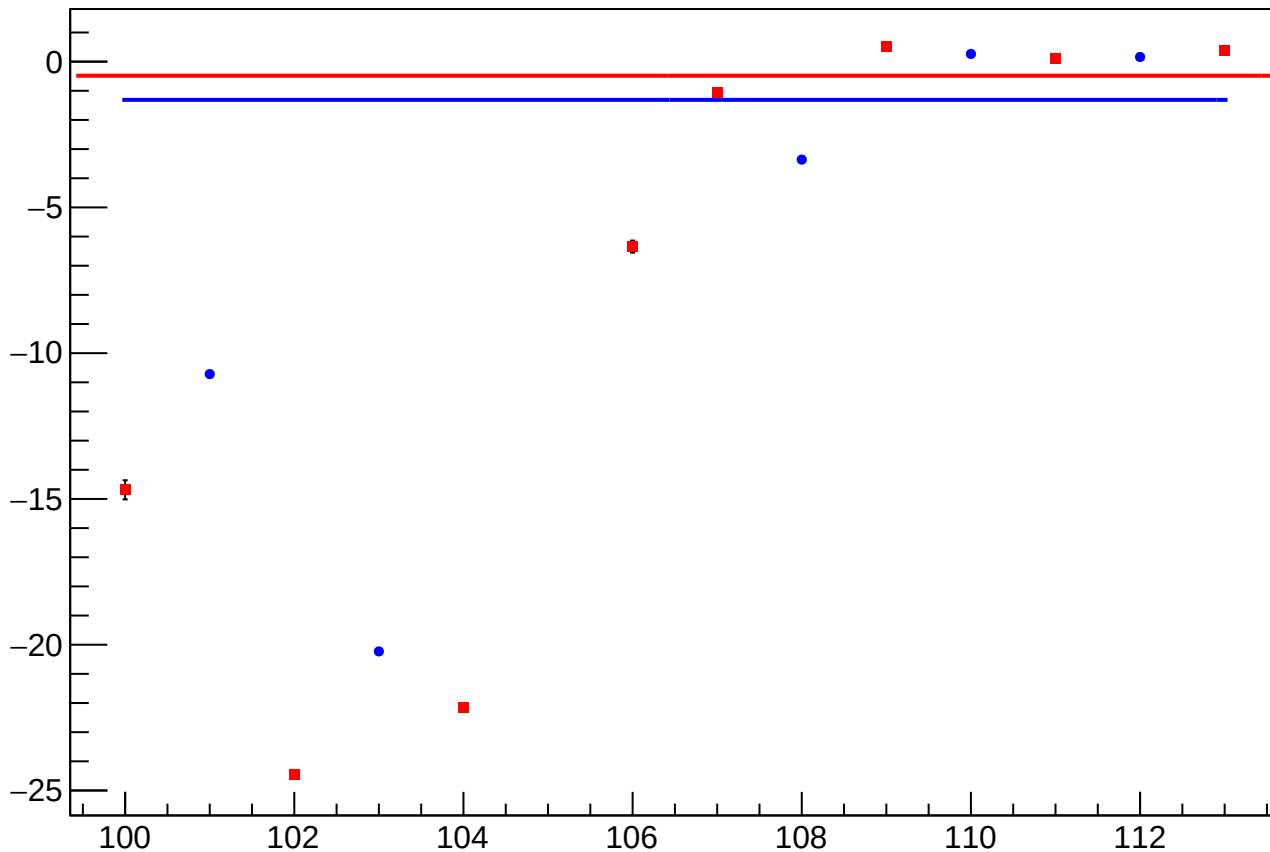
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.065+/-0.004  $\chi^2/\text{NDF}$ : 15862.6/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -1.311+/-0.026  $\chi^2/\text{NDF}$ : 28751.2/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.483+/-0.019  $\chi^2/\text{NDF}$ : 46844.6/7

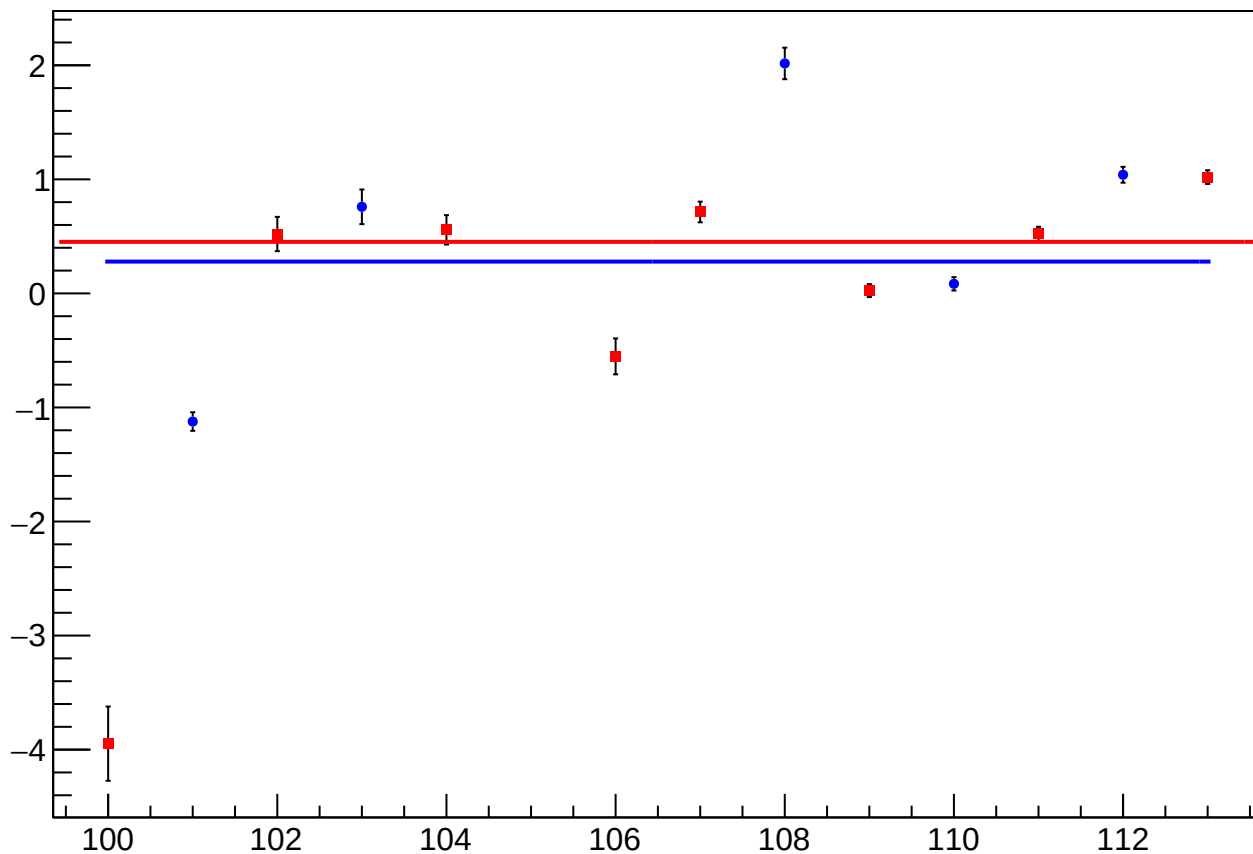
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.774+/-0.016  $\chi^2/\text{NDF}$ : 76231.3/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.279 $\pm$ 0.037  $\chi^2$ /NDF: 595.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.452 $\pm$ 0.030  $\chi^2$ /NDF: 379.8/7

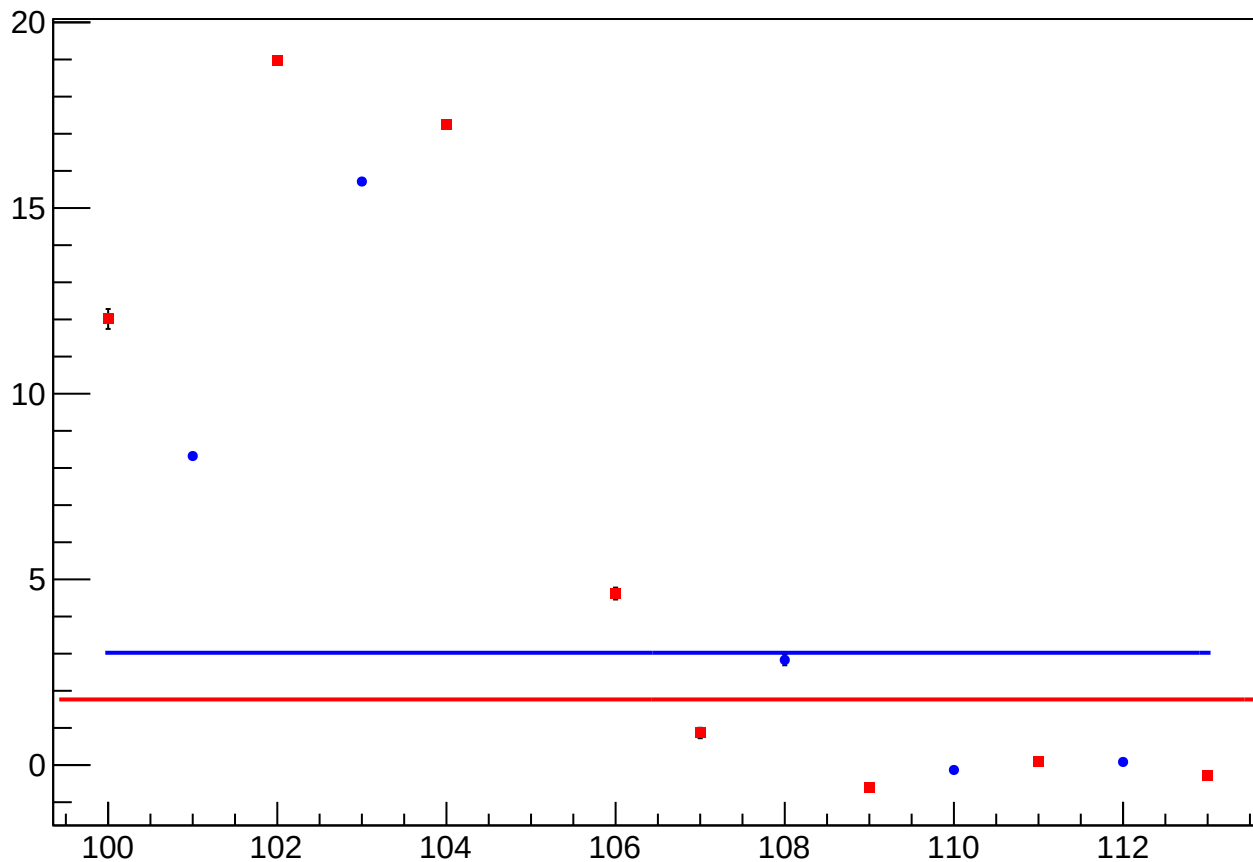
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.383 $\pm$ 0.023  $\chi^2$ /NDF: 989.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 3.024+/-0.034  $\chi^2/\text{NDF}$ : 22476.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.767+/-0.027  $\chi^2/\text{NDF}$ : 42010.6/7

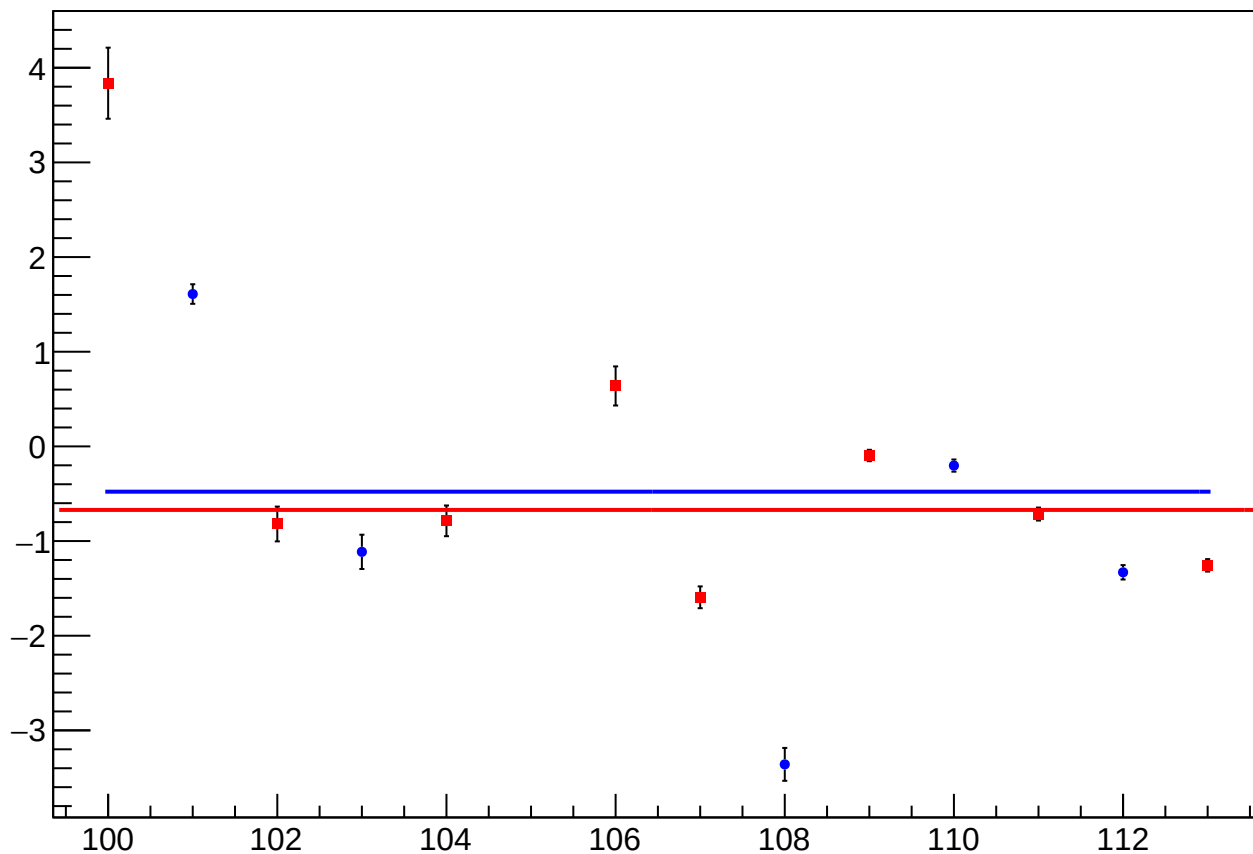
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.263+/-0.021  $\chi^2/\text{NDF}$ : 65335.5/12

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.478 \pm 0.042$   $\chi^2/\text{NDF}$ : 839.8/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.671 \pm 0.033$   $\chi^2/\text{NDF}$ : 421.2/7

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

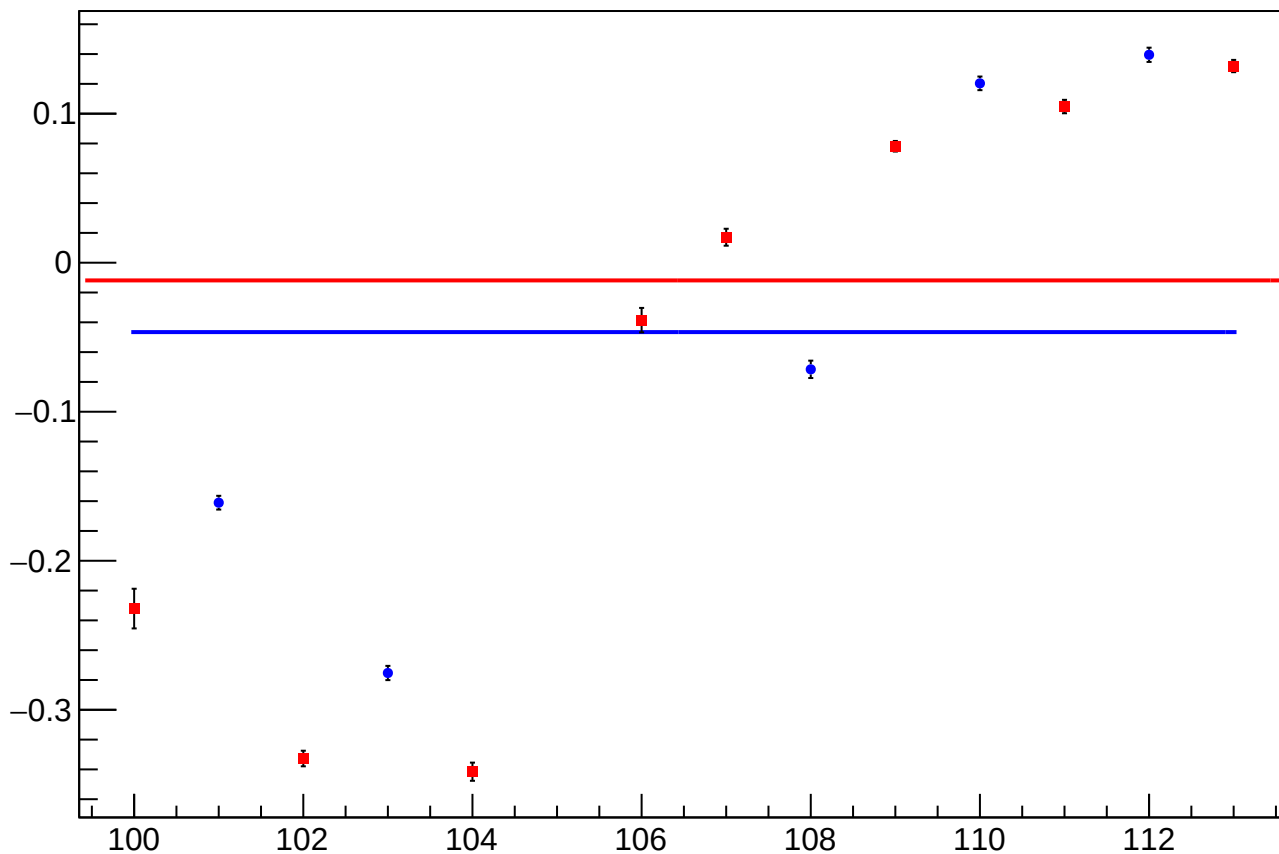
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.596 \pm 0.026$   $\chi^2/\text{NDF}$ : 1274.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_bcm\_2an\_us\_an\_ds\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.047 $\pm$ 0.002  $\chi^2$ /NDF: 5766.6/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.012 $\pm$ 0.002  $\chi^2$ /NDF: 9515.8/7

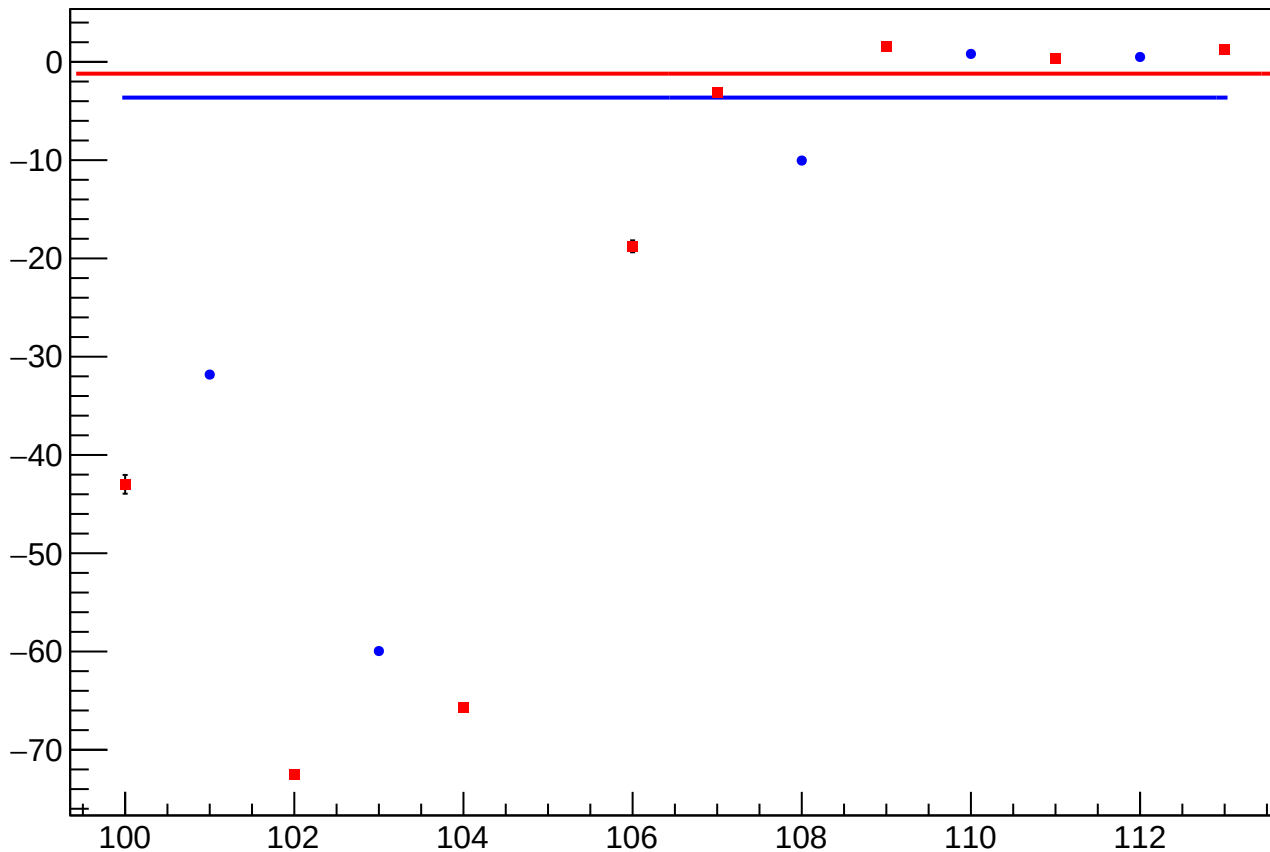
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.026 $\pm$ 0.001  $\chi^2$ /NDF: 15432.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-3.634 \pm 0.076$   $\chi^2/\text{NDF}: 29261.0/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-1.199 \pm 0.055$   $\chi^2/\text{NDF}: 47484.5/7$

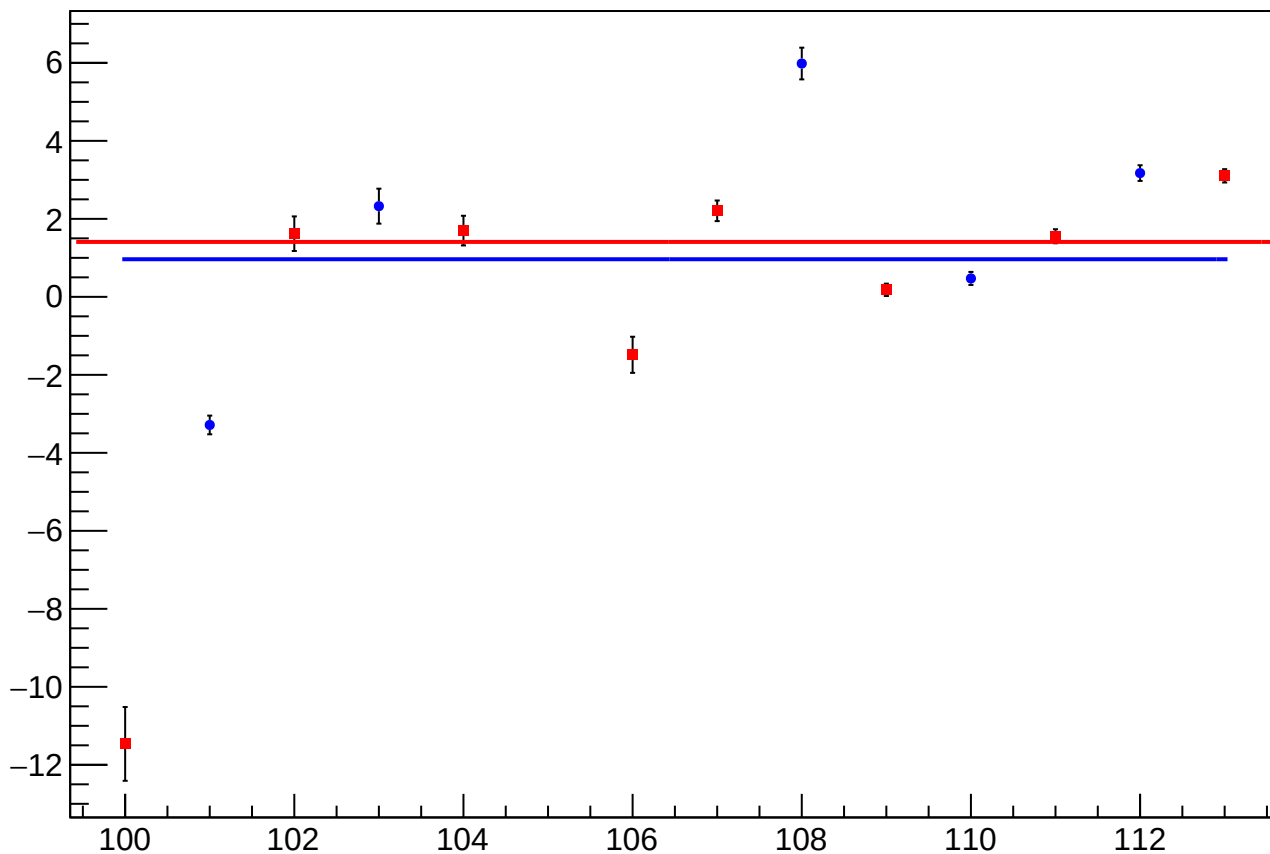
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-2.041 \pm 0.045$   $\chi^2/\text{NDF}: 77418.5/12$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.964 $\pm$ 0.106  $\chi^2$ /NDF: 605.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.409 $\pm$ 0.085  $\chi^2$ /NDF: 393.1/7

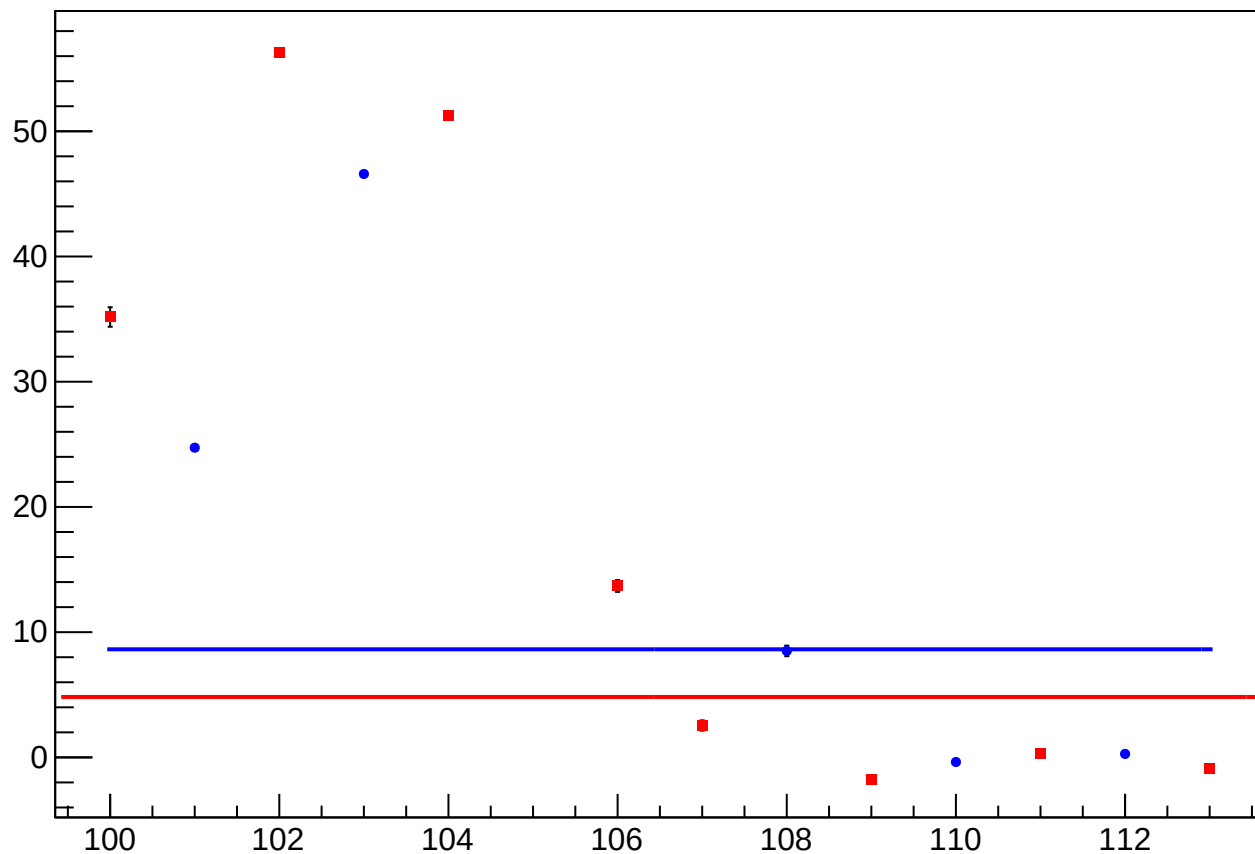
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.234 $\pm$ 0.067  $\chi^2$ /NDF: 1008.9/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 8.632 $\pm$ 0.097  $\chi^2$ /NDF: 23041.4/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.826 $\pm$ 0.077  $\chi^2$ /NDF: 42839.1/7

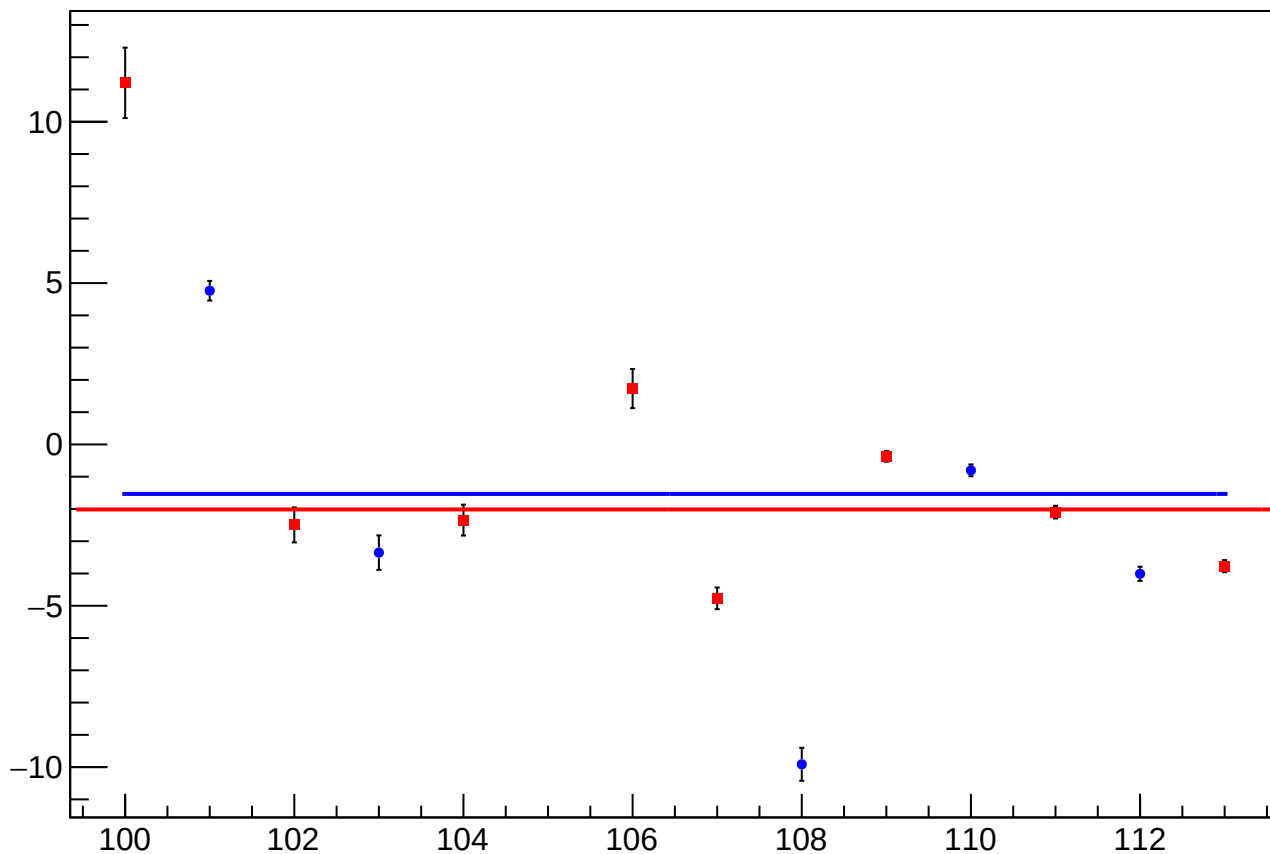
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.301 $\pm$ 0.060  $\chi^2$ /NDF: 66822.1/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.534 \pm 0.121$   $\chi^2/\text{NDF}$ : 851.2/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.015 \pm 0.095$   $\chi^2/\text{NDF}$ : 437.9/7

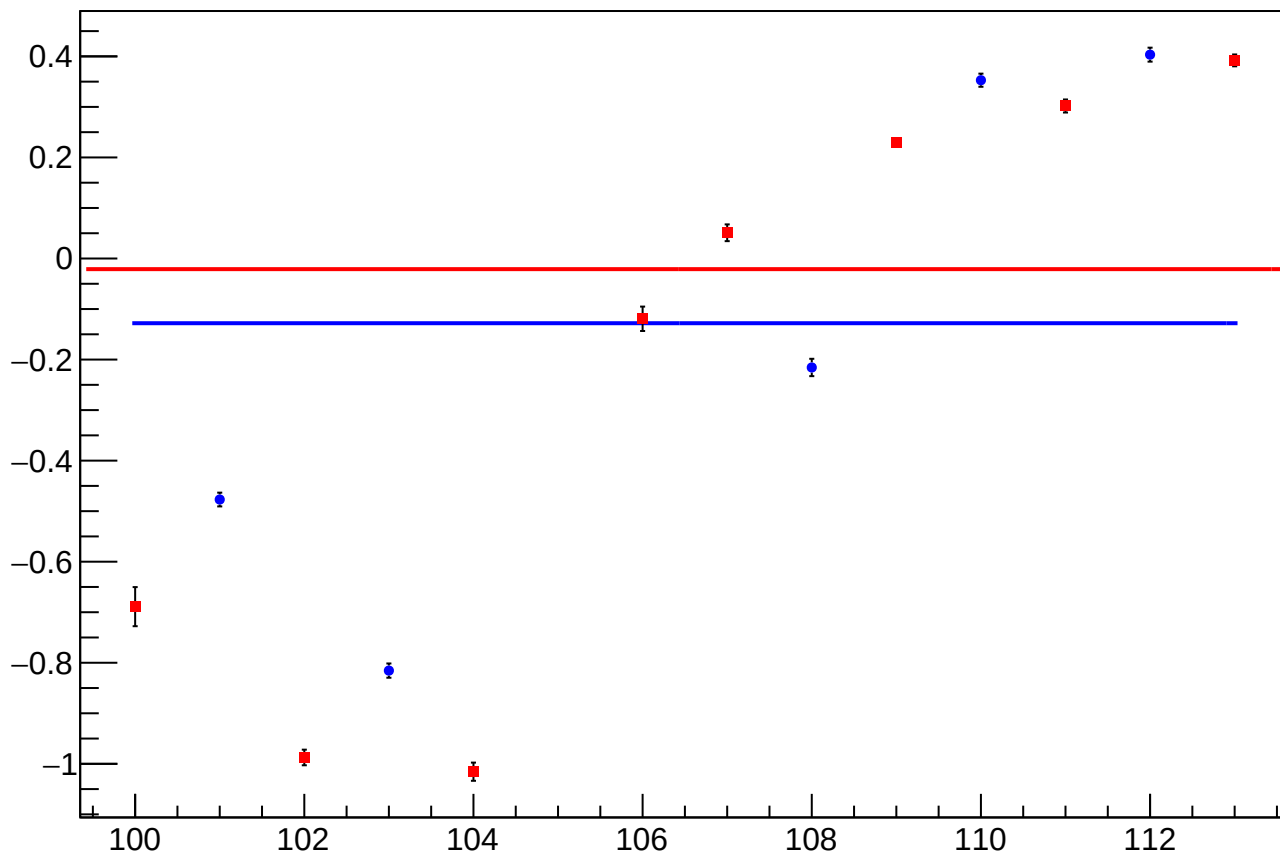
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.830 \pm 0.075$   $\chi^2/\text{NDF}$ : 1299.0/12

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.128 $\pm$ 0.006  $\chi^2$ /NDF: 5905.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.021 $\pm$ 0.005  $\chi^2$ /NDF: 9787.3/7

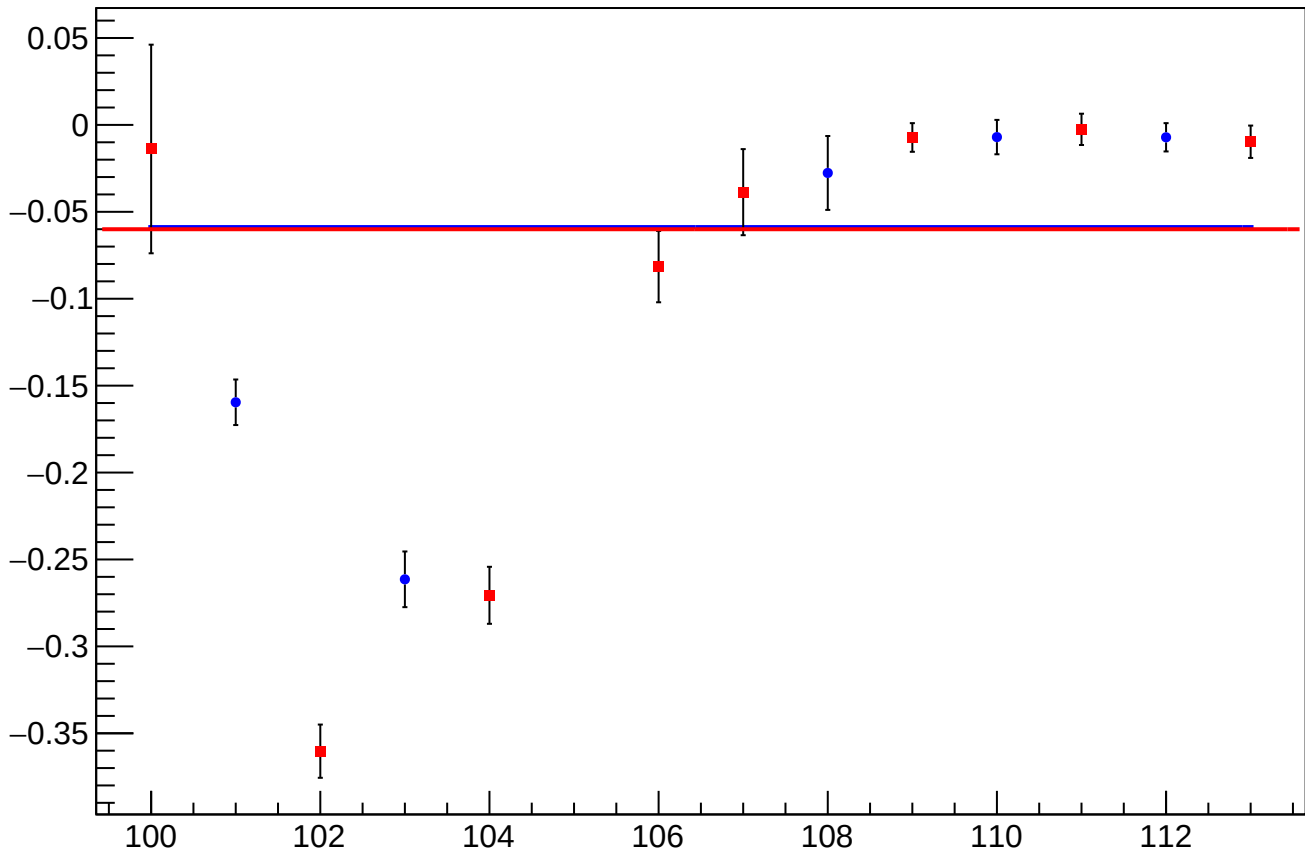
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.064 $\pm$ 0.004  $\chi^2$ /NDF: 15862.4/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -0.059+/-0.005  $\chi^2$ /NDF: 289.0/4

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.060+/-0.004  $\chi^2$ /NDF: 662.8/7

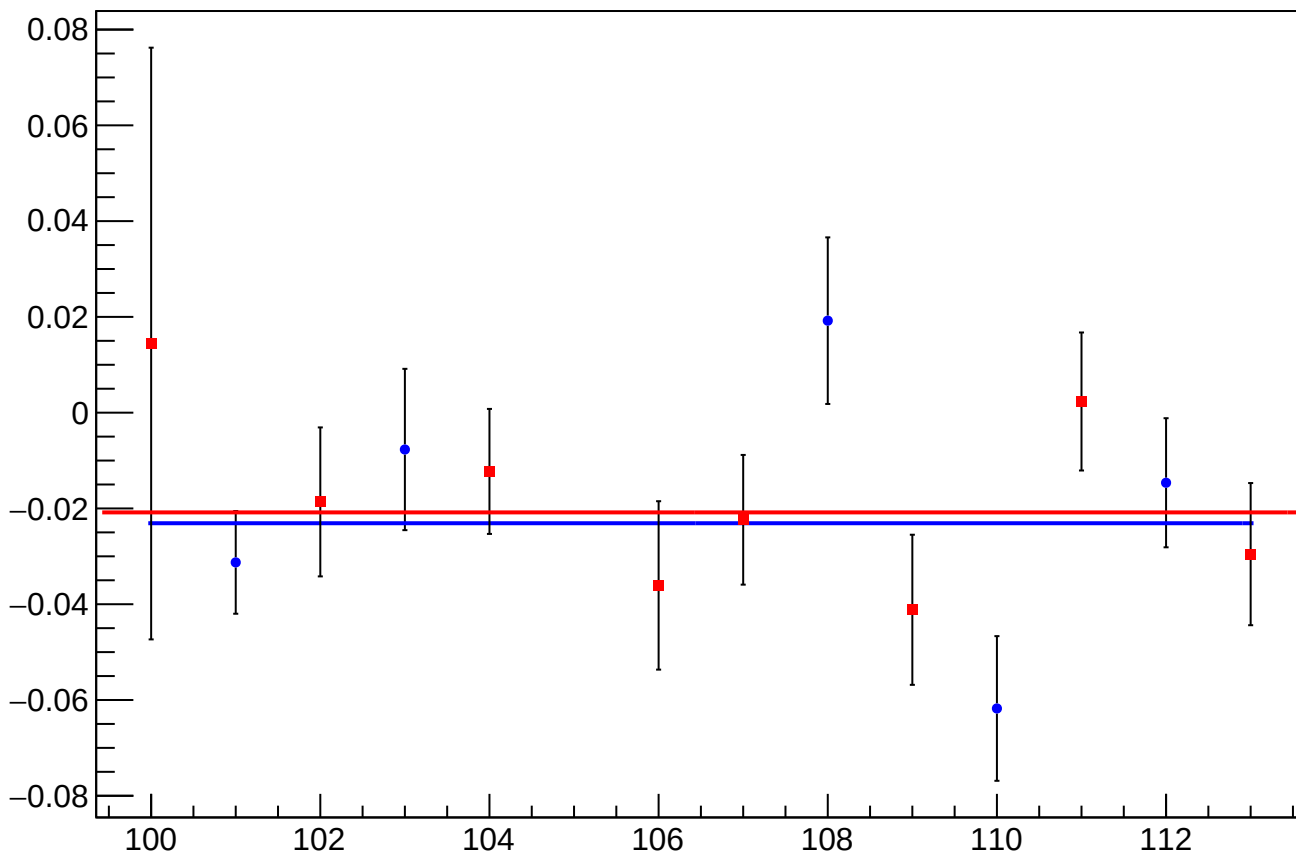
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.059+/-0.003  $\chi^2$ /NDF: 951.9/12

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -0.023 $\pm$ 0.006  $\chi^2$ /NDF: 14.3/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.021 $\pm$ 0.006  $\chi^2$ /NDF: 6.2/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

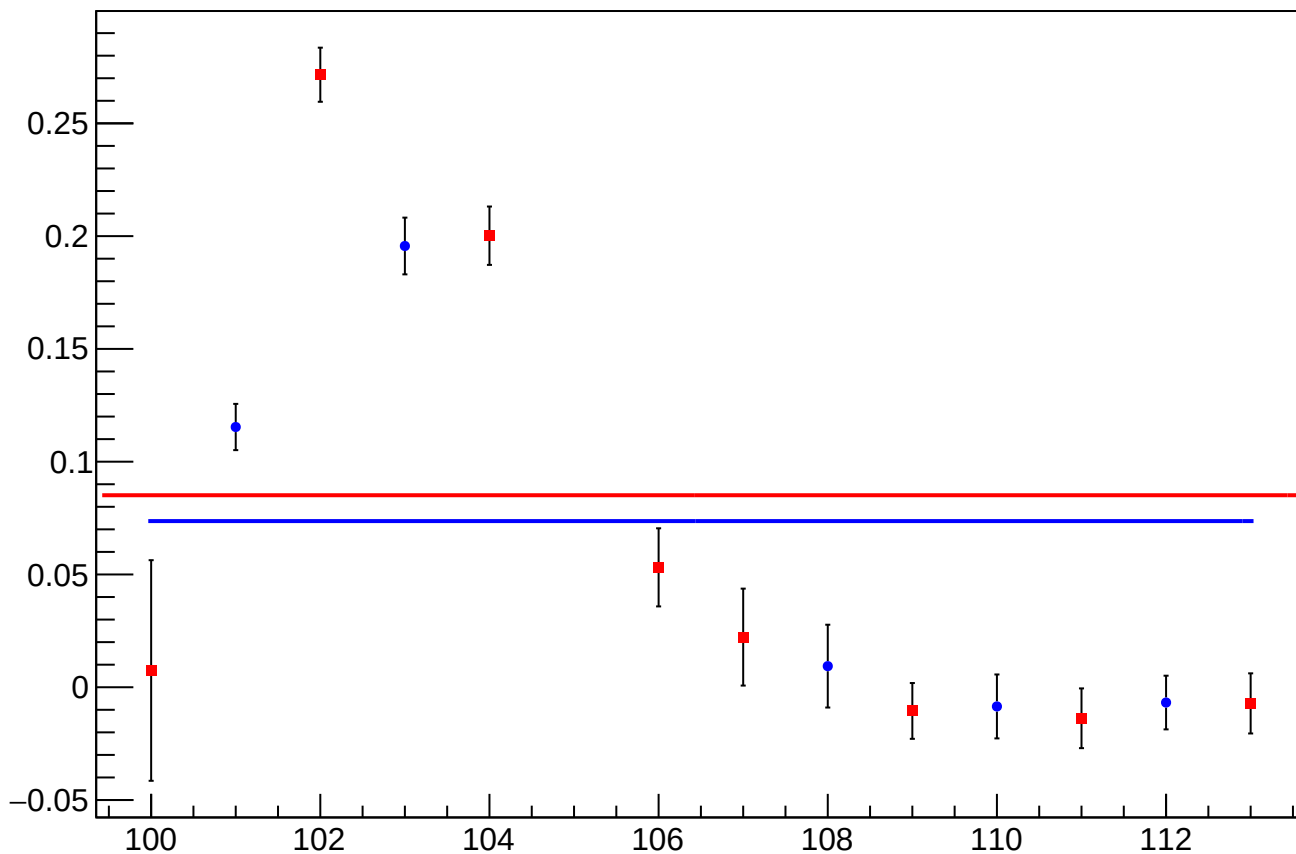
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.022 $\pm$ 0.004  $\chi^2$ /NDF: 20.5/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.074 $\pm$ 0.006  $\chi^2$ /NDF: 202.2/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.085 $\pm$ 0.005  $\chi^2$ /NDF: 498.6/7

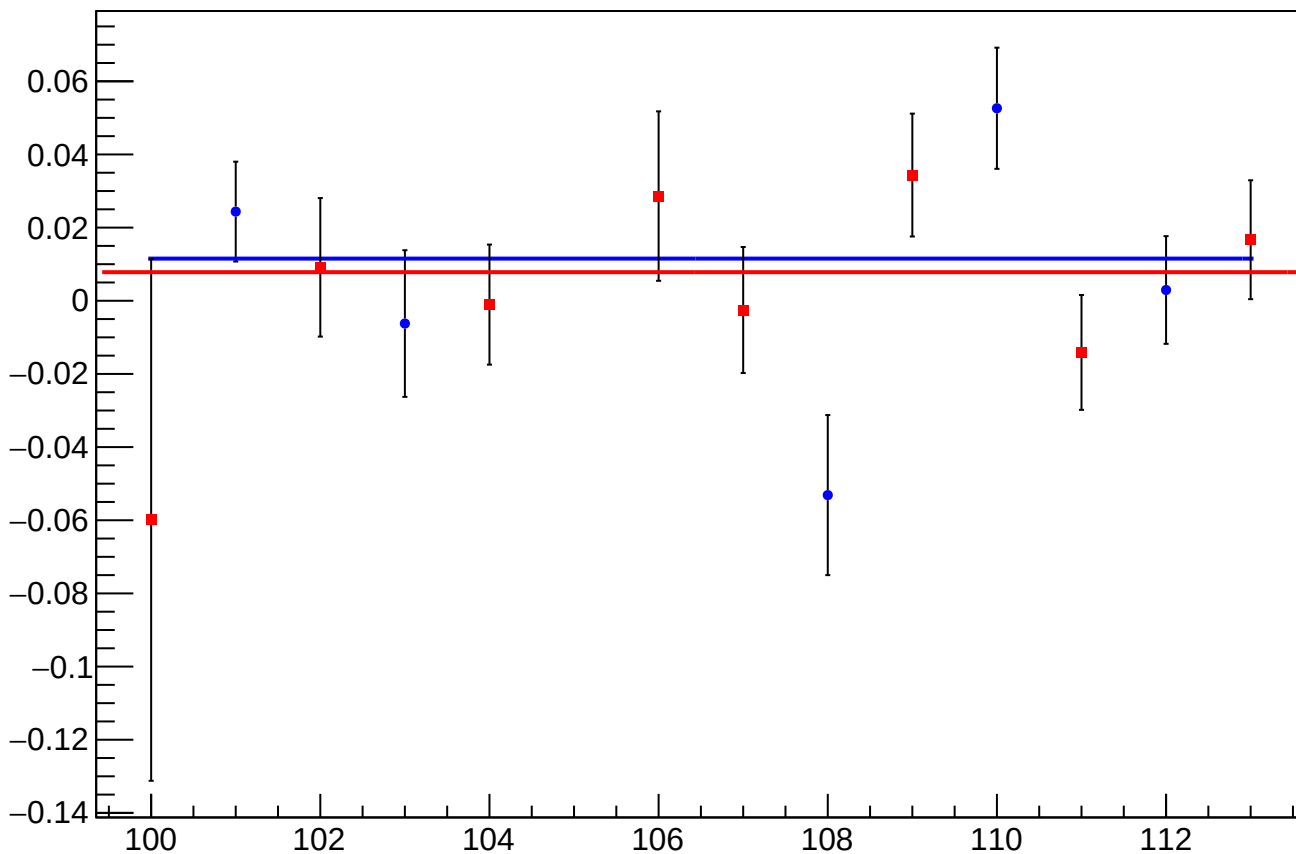
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.080 $\pm$ 0.004  $\chi^2$ /NDF: 703.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.012 $\pm$ 0.007  $\chi^2$ /NDF: 16.9/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.008 $\pm$ 0.007  $\chi^2$ /NDF: 7.1/7

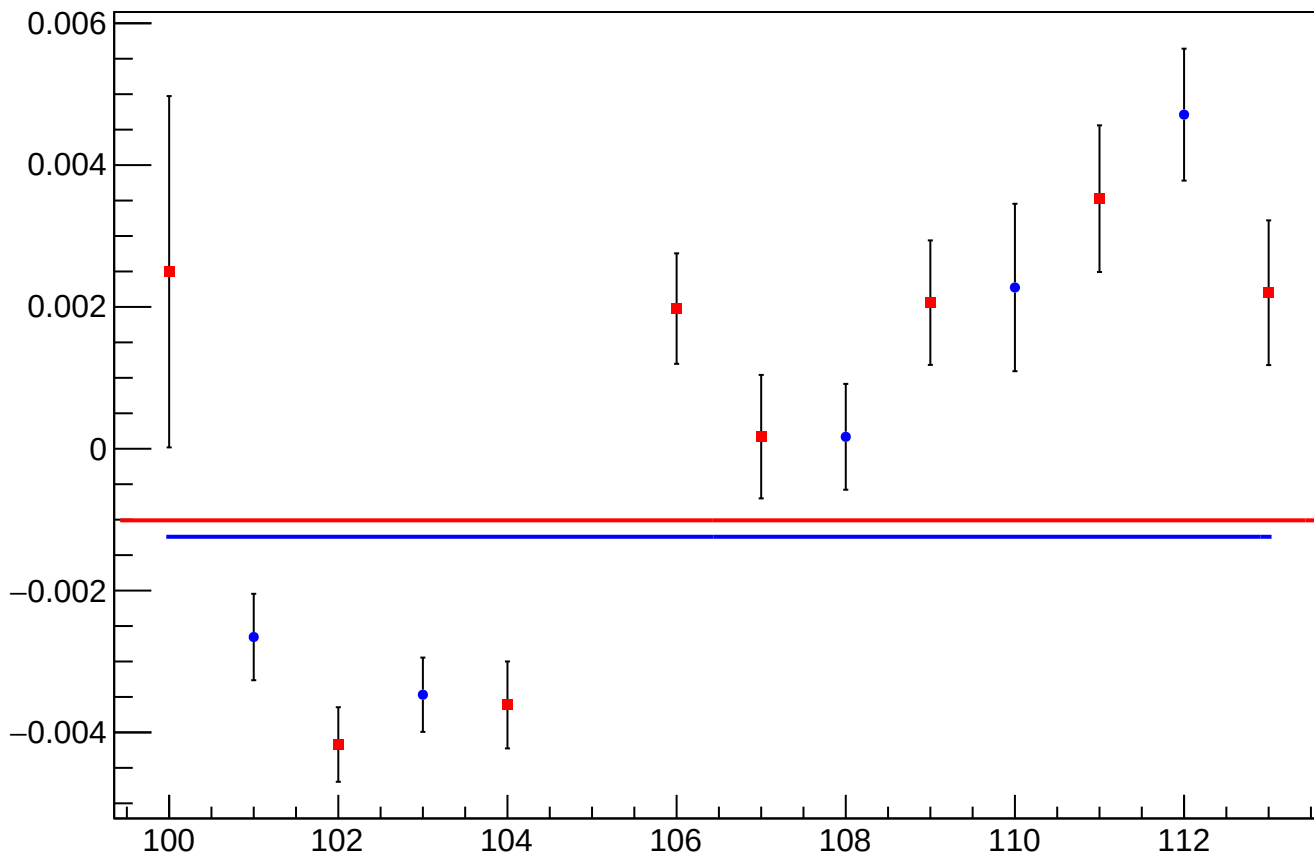
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.005  $\chi^2$ /NDF: 24.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.001 $\pm$ 0.000  $\chi^2$ /NDF: 76.8/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.001 $\pm$ 0.000  $\chi^2$ /NDF: 114.1/7

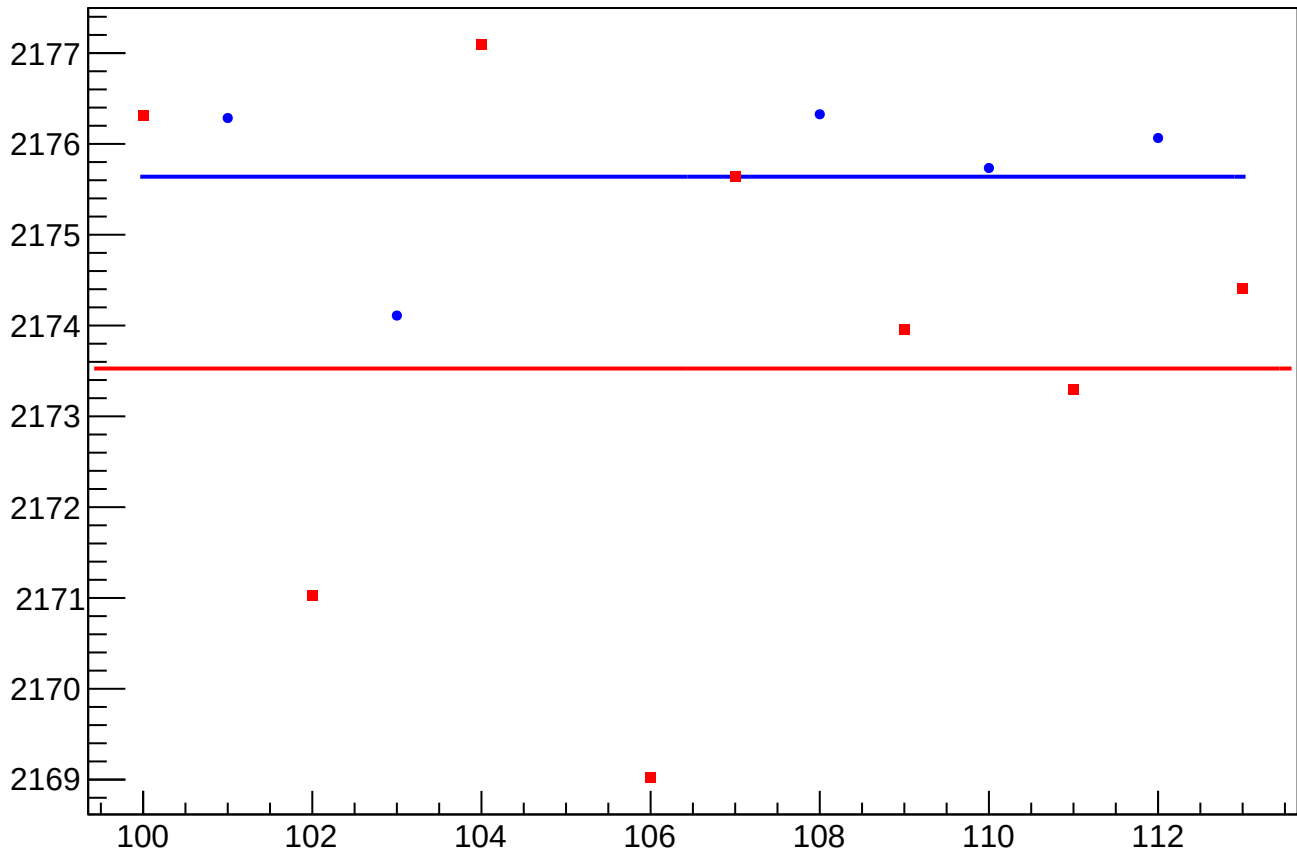
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.001 $\pm$ 0.000  $\chi^2$ /NDF: 191.2/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# HALLA\_p\_mean vs Slug



Right In: 2175.639 $\pm$ 0.000  $\chi^2$ /NDF: 203792581834312143193727872008192.0/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

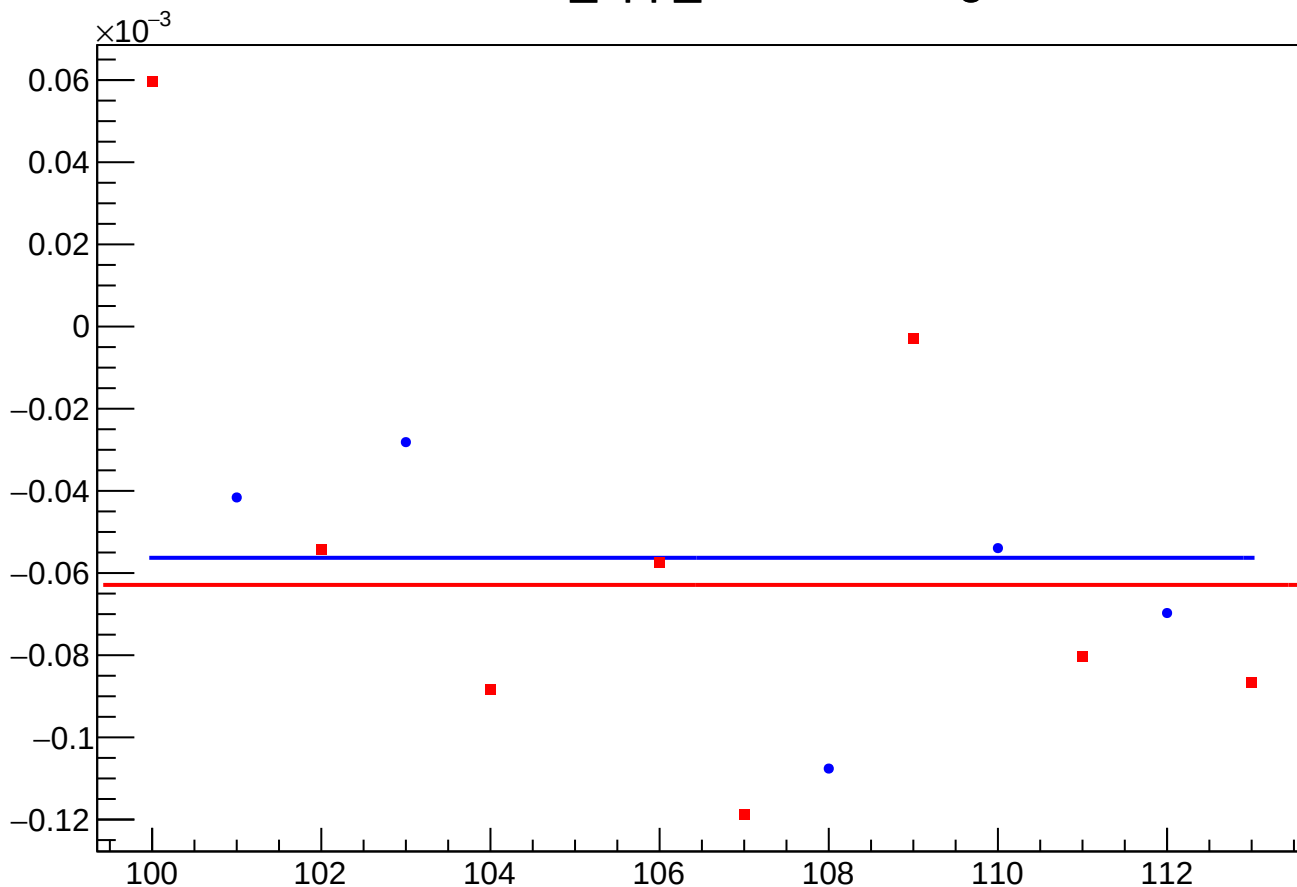
All: 2174.448 $\pm$ 0.000  $\chi^2$ /NDF: 28512608970.0/7

Right Out: 2173.527 $\pm$ 0.000  $\chi^2$ /NDF: 1995784978898265081523394771419136.0/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# HALLA\_dpp\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 181673449945875125108736.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

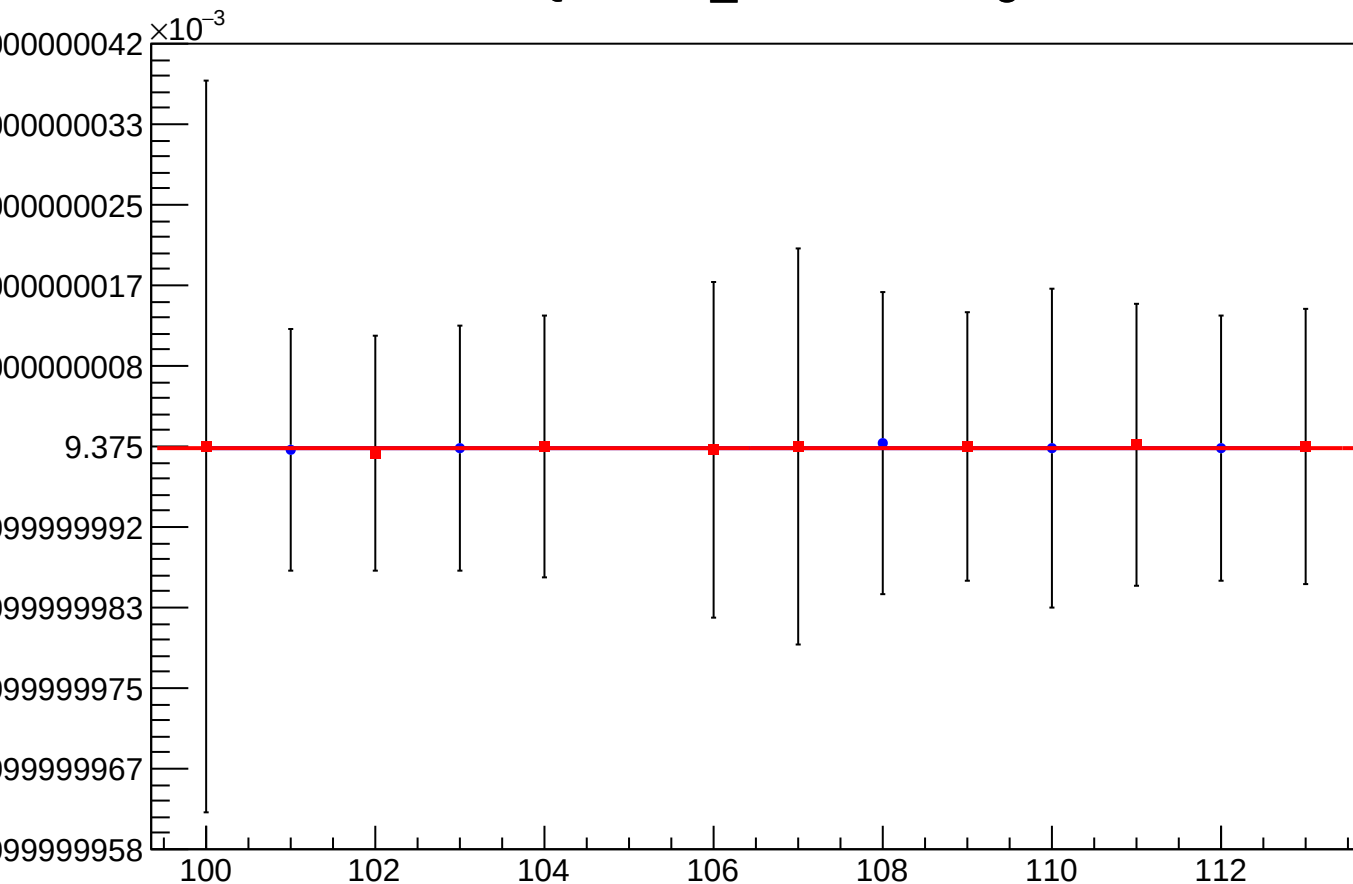
All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6380624382474

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 450027678495972178001920.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# MQ171LM\_mean vs Slug



Right In: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/7

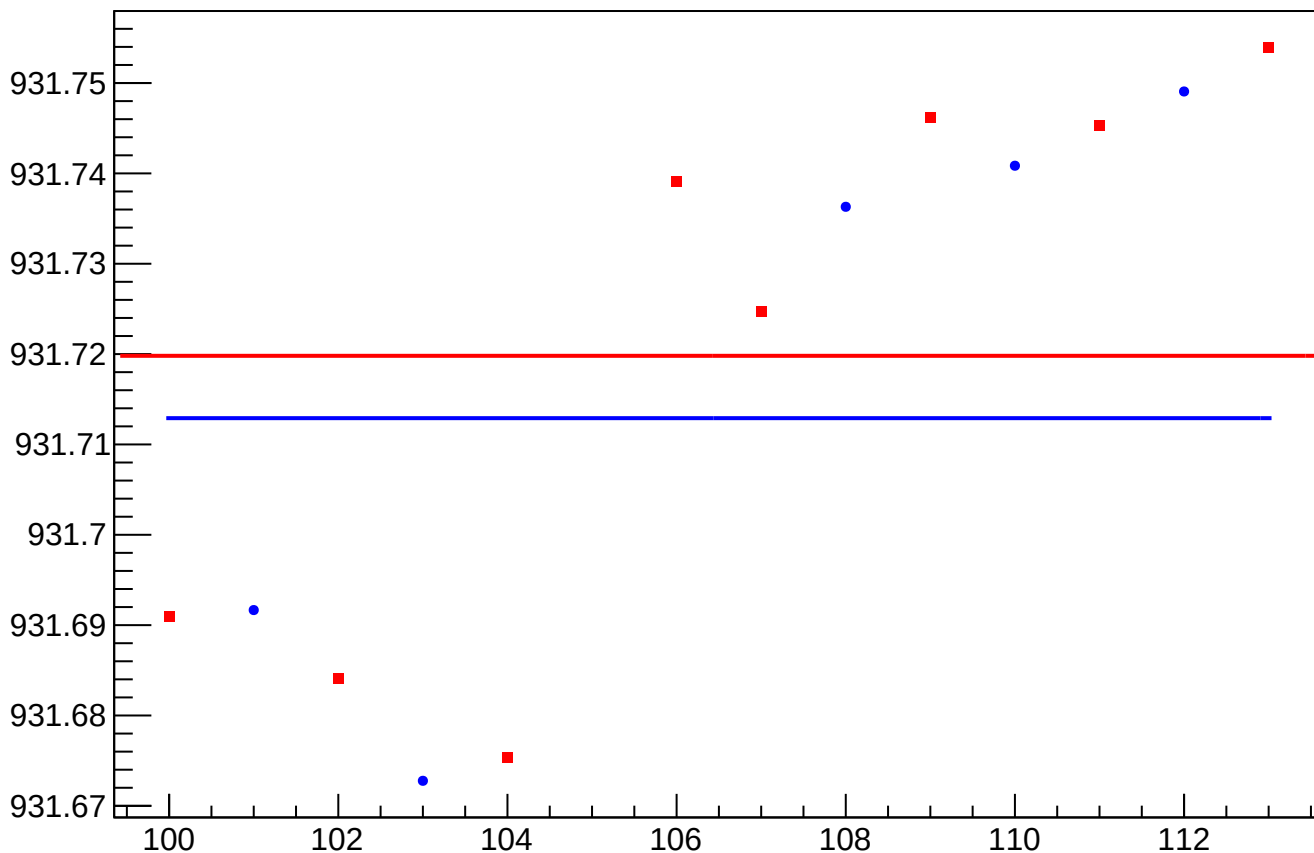
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# HacL\_Q2\_HP3458A\_IOUT\_mean vs Slug



Right In: 931.713+/-0.000  $\chi^2/\text{NDF}$ : 251430902344098521244476899328.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

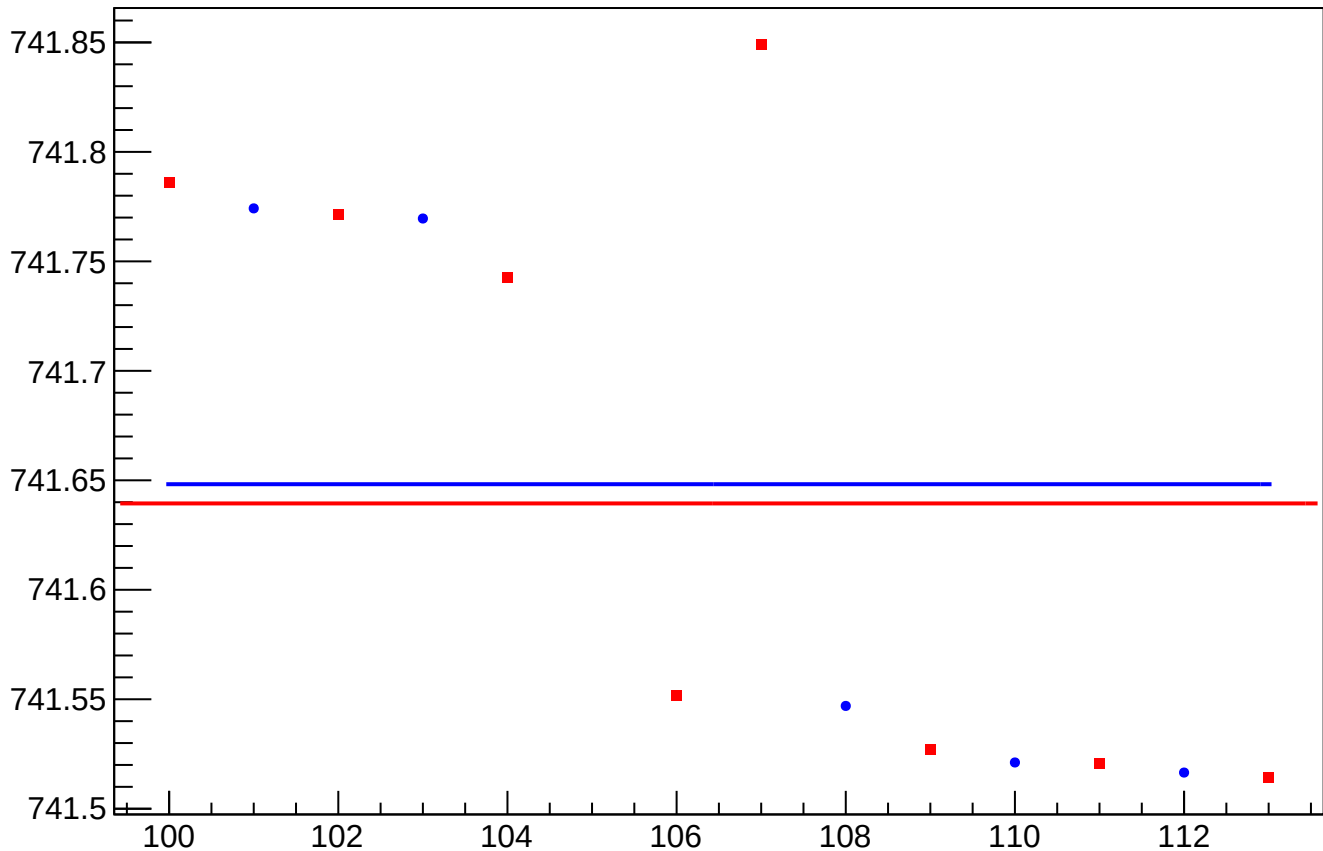
All: 931.717+/-0.000  $\chi^2/\text{NDF}$ : 595129626780.0/7

Right Out: 931.720+/-0.000  $\chi^2/\text{NDF}$ : 336744129077892443579602698240.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# HacL\_D1\_HP3458A\_IOUT\_mean vs Slug



Right In: 741.648+/-0.000  $\chi^2/\text{NDF}$ : 3896805186272436736139114577920.0/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 741.643+/-0.000  $\chi^2/\text{NDF}$ : 923565215305

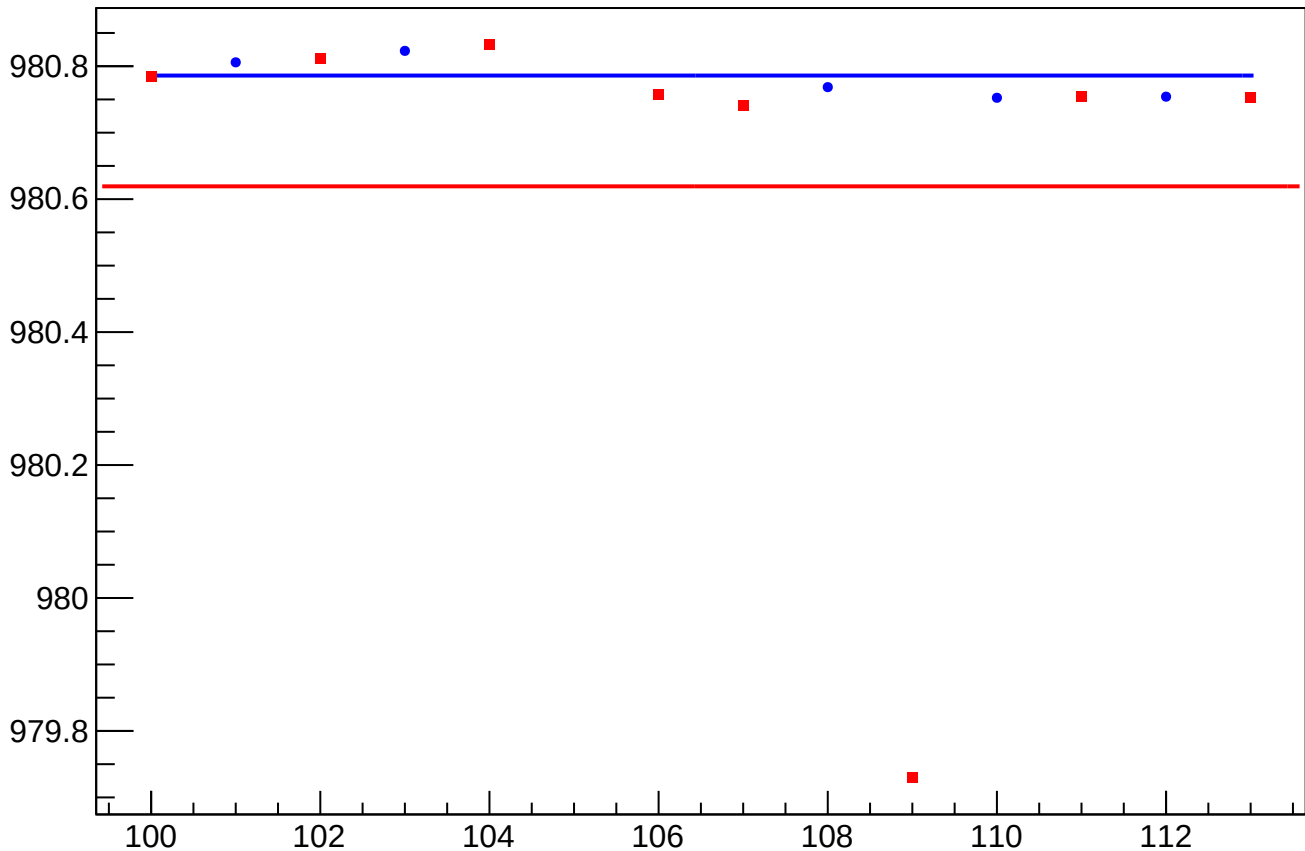
Right Out: 741.639+/-0.000  $\chi^2/\text{NDF}$ : 5327589903749929867222628433920.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# HacL\_Q3\_HP3458A\_IOUT\_mean vs Slug



Right In: 980.786 $\pm$ 0.000  $\chi^2$ /NDF: 219930171139525177240998379520.0/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

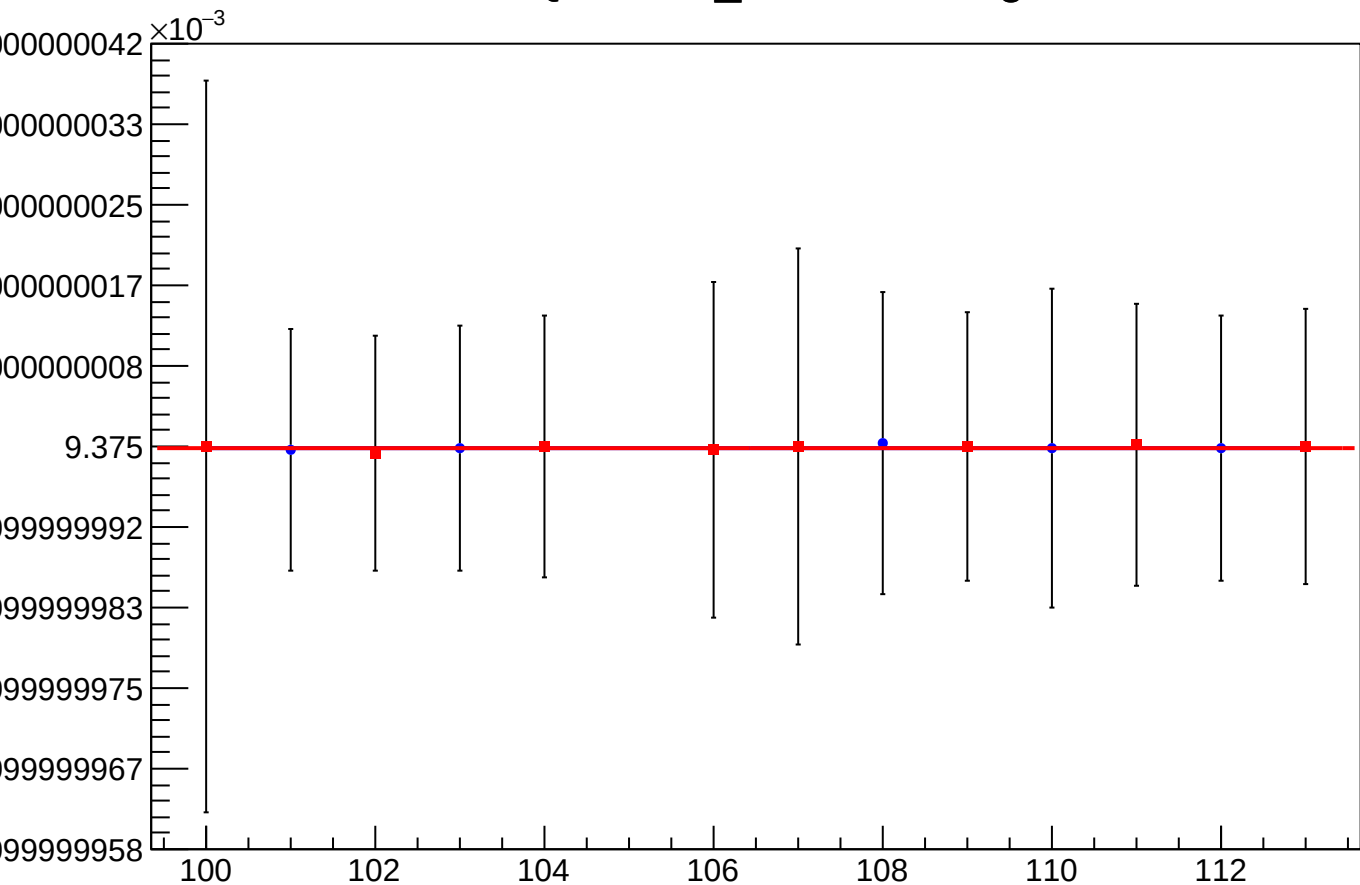
All: 980.692 $\pm$ 0.000  $\chi^2$ /NDF: 53340073289

Right Out: 980.619 $\pm$ 0.000  $\chi^2$ /NDF: 49062651953095220840055516954624.0/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# MQ172RM\_mean vs Slug



Right In: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/7

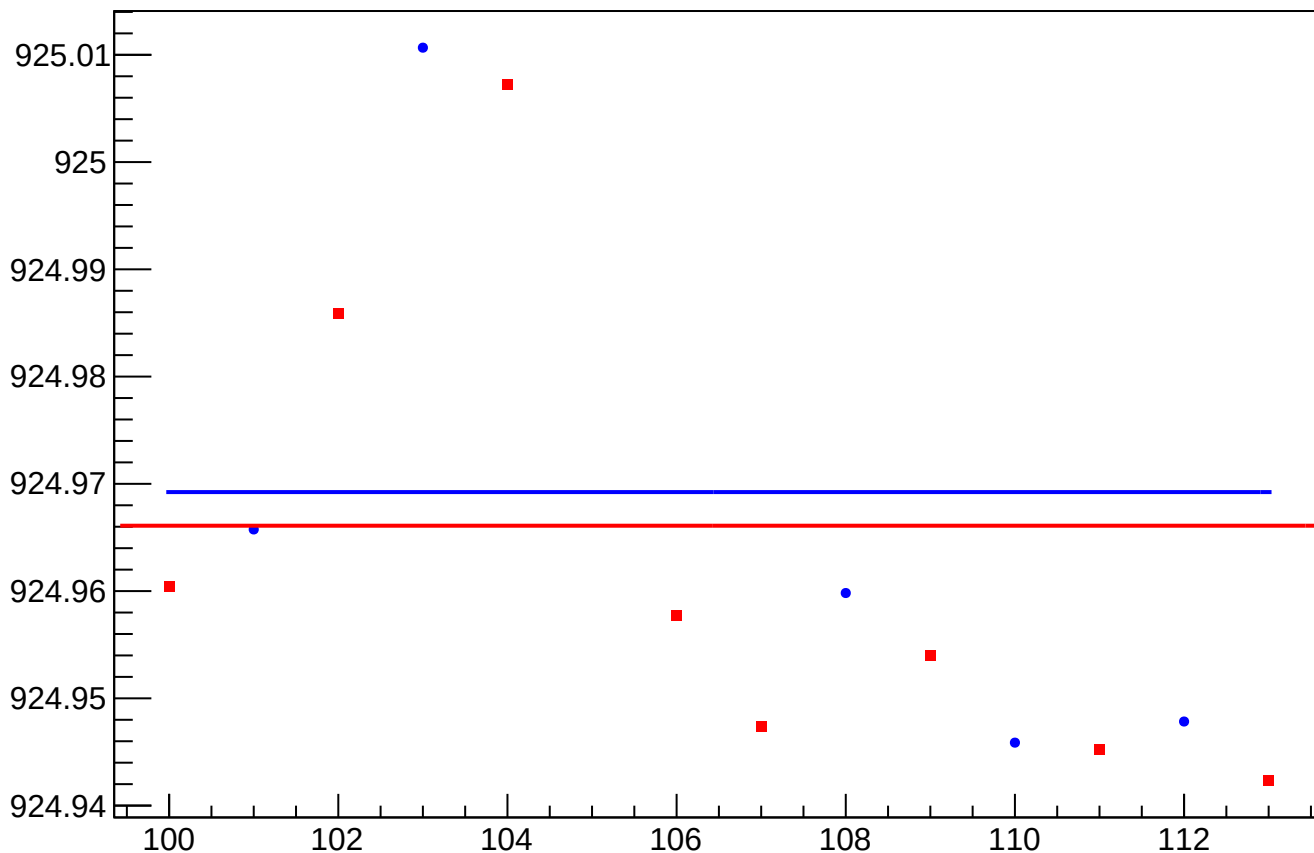
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# HacR\_Q2\_HP3458A\_IOUT\_mean vs Slug



Right In: 924.969+/-0.000  $\chi^2/\text{NDF}$ : 157038198104917695670459039744.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

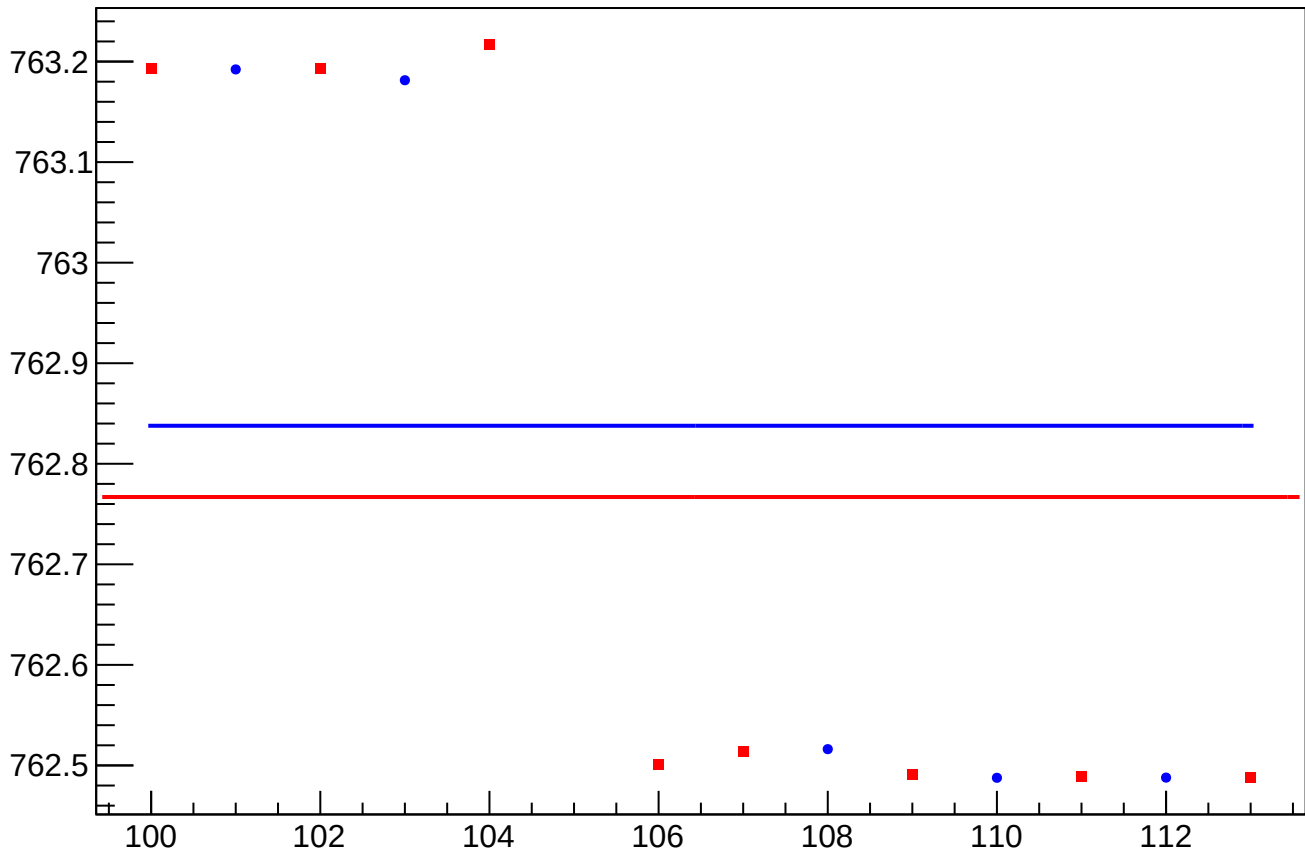
All: 924.967+/-0.000  $\chi^2/\text{NDF}$ : 34383100945.0/7

Right Out: 924.966+/-0.000  $\chi^2/\text{NDF}$ : 185356726336454545354260480000.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# HacR\_D1\_HP3458A\_IOUT\_mean vs Slug



Right In: 762.838+/-0.000  $\chi^2/\text{NDF}$ : 30868968236954584730840980258816.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

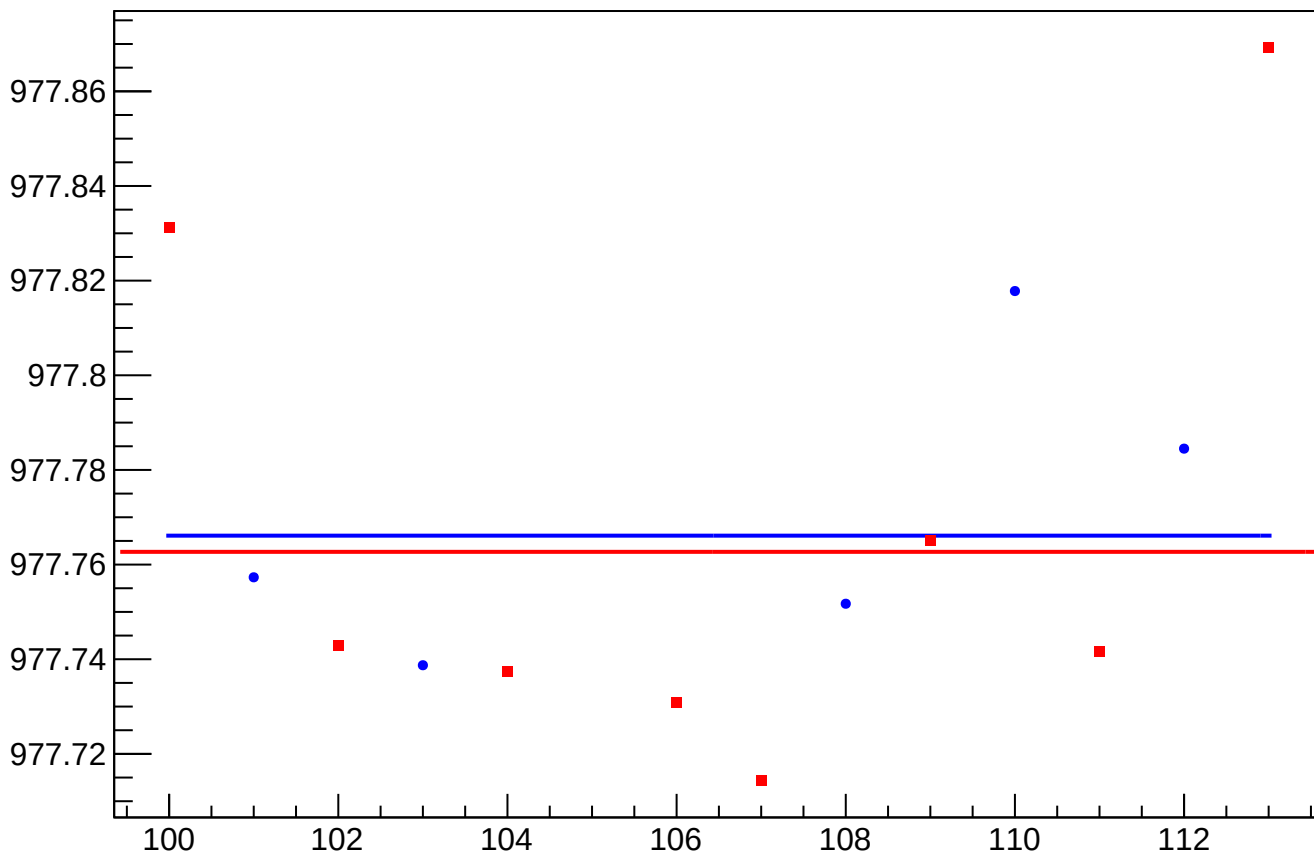
All: 762.798+/-0.000  $\chi^2/\text{NDF}$ : 714949839005

Right Out: 762.767+/-0.000  $\chi^2/\text{NDF}$ : 39892589428291339240384051019776.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# HacR\_Q3\_HP3458A\_IOUT\_mean vs Slug



Right In: 977.766+/-0.000  $\chi^2/\text{NDF}$ : 177509769879171223840465354752.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

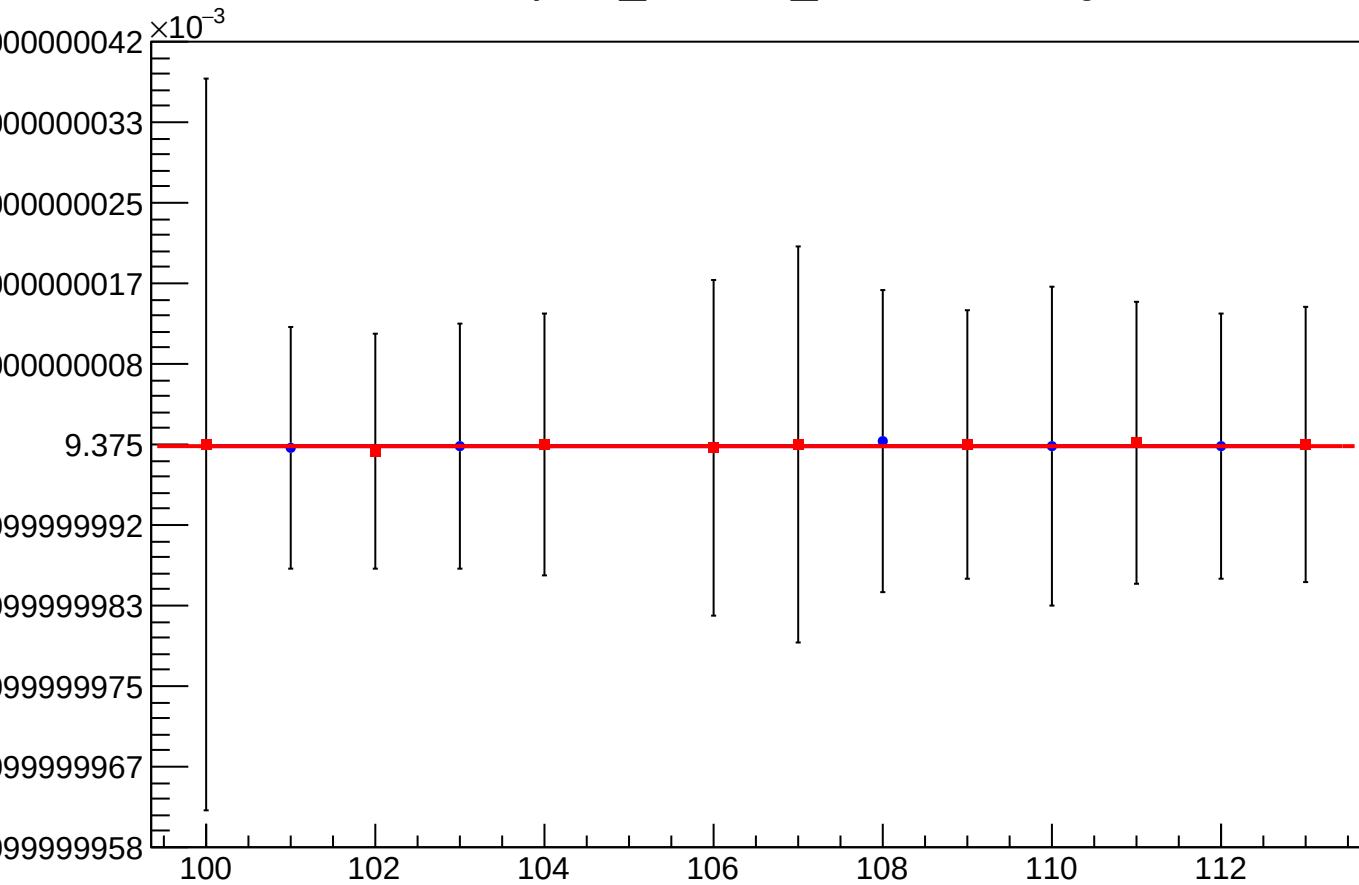
All: 977.764+/-0.000  $\chi^2/\text{NDF}$ : 952049131660.0/7

Right Out: 977.763+/-0.000  $\chi^2/\text{NDF}$ : 772830583373830470493322346496.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# hesDipole\_current\_mean vs Slug



Right In: 0.009+/-0.000     $\chi^2/\text{NDF}$ : 0.0/4

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.009+/-0.000     $\chi^2/\text{NDF}$ : 0.0/7

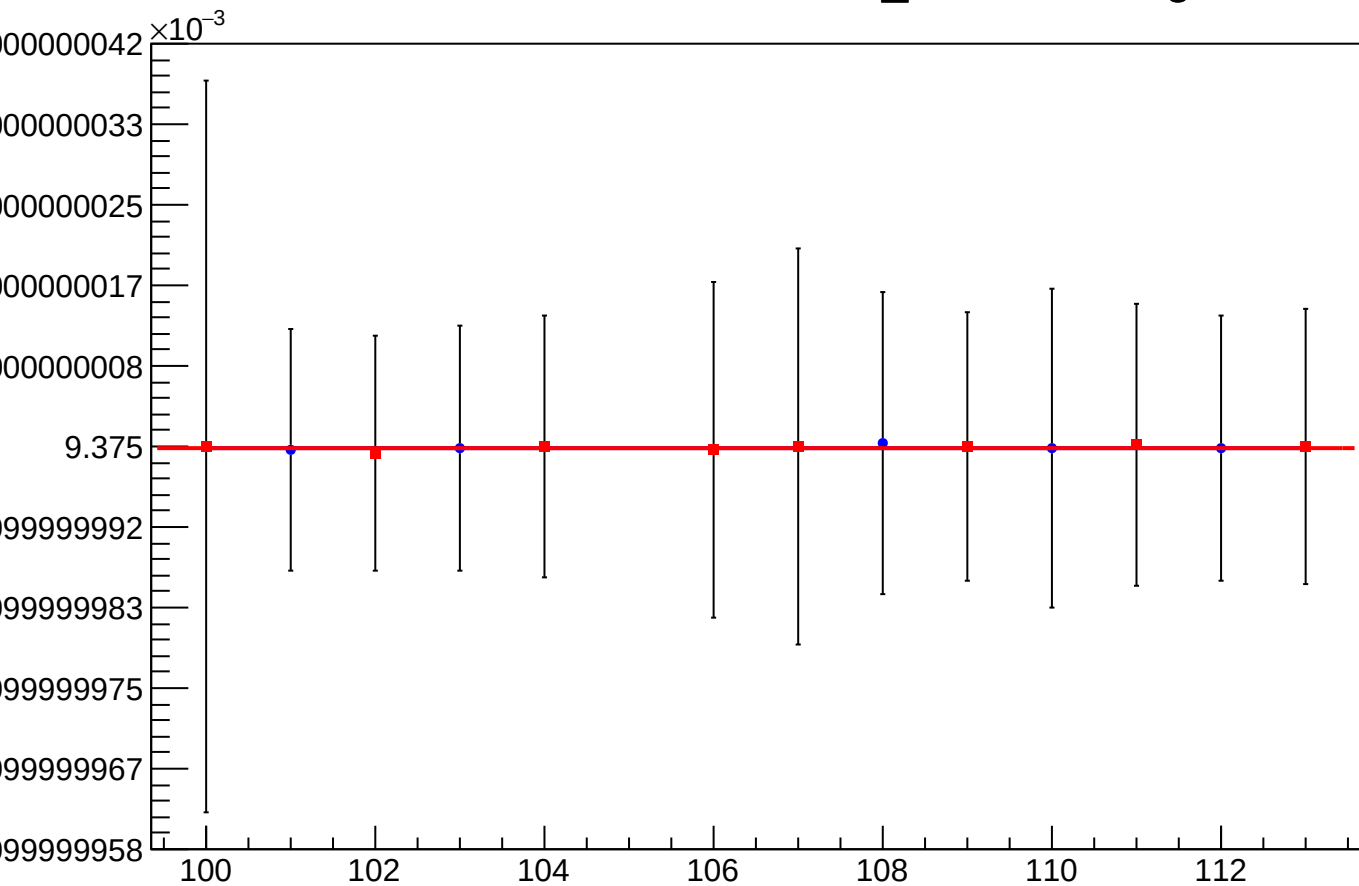
Left In: 0.000+/-0.000      $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.000     $\chi^2/\text{NDF}$ : 0.0/12

- sign 0.000+/-0.000      $\chi^2/\text{NDF}$ : 0.0/0

# MSUPERBIGBITereadcalc\_mean vs Slug



Right In: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/7

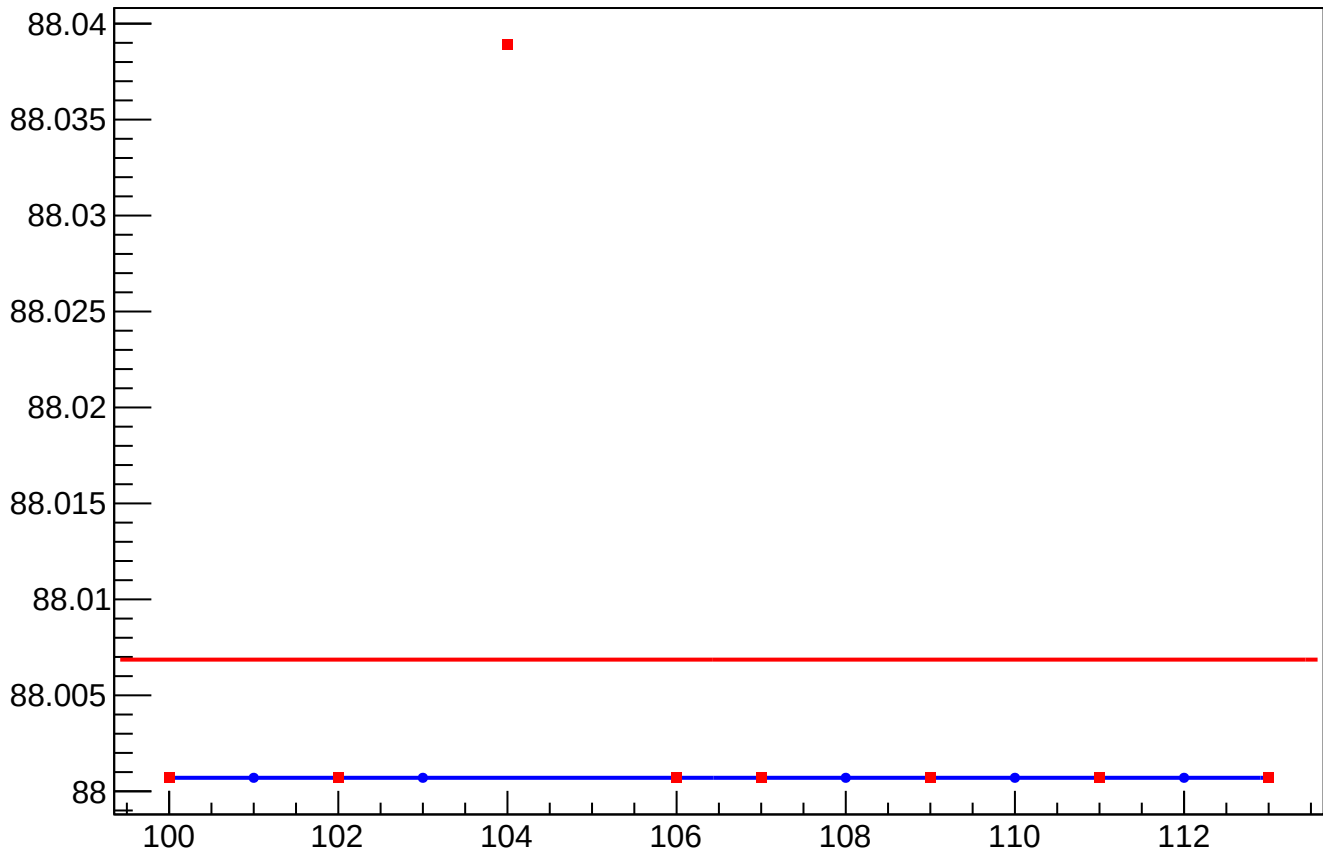
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# VWienAngle\_mean vs Slug



Right In: 88.001+/-0.000  $\chi^2/\text{NDF}$ : 440651.4/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 88.007+/-0.000  $\chi^2/\text{NDF}$ : 66101514086337232209702813696.0/7

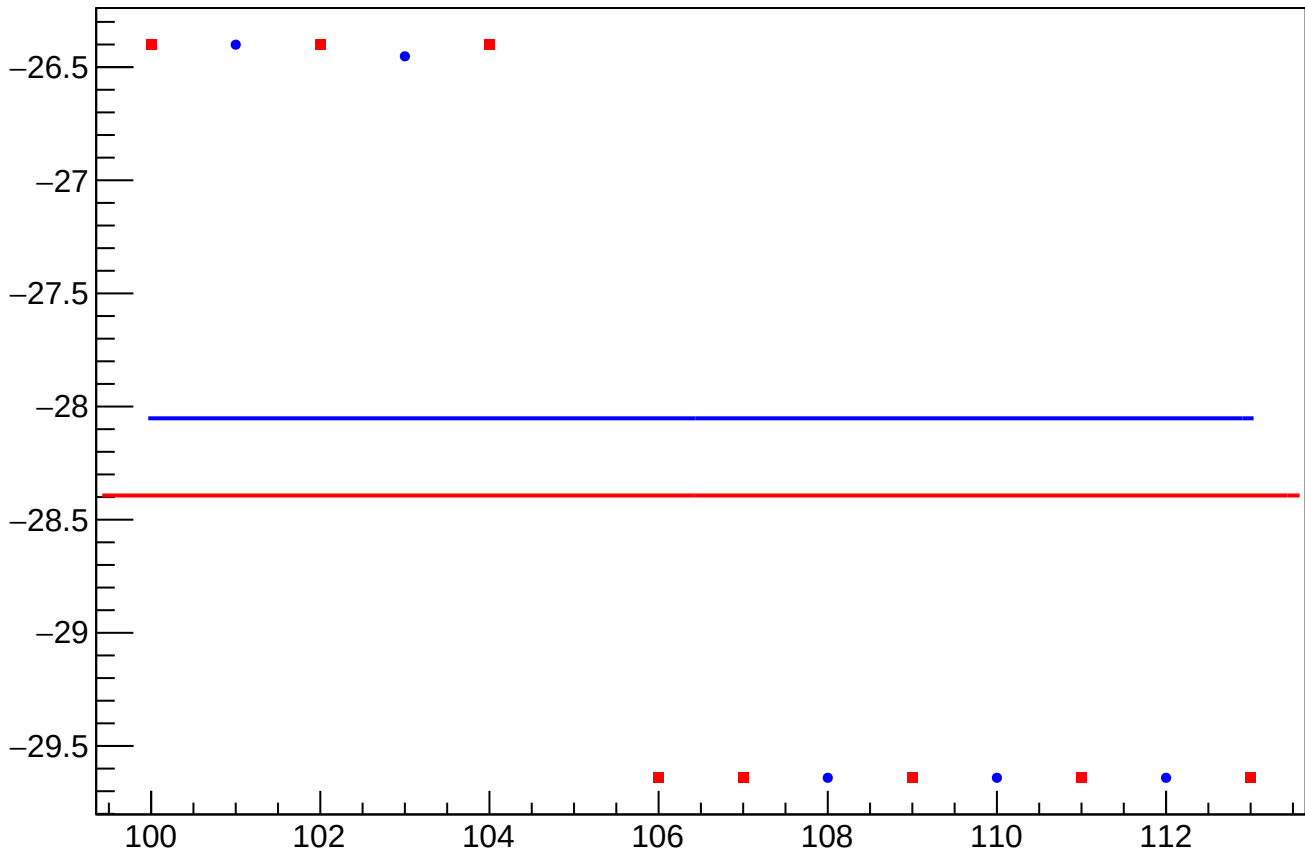
All: 88.004+/-0.000  $\chi^2/\text{NDF}$ : 7164026922978

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# HWienAngle\_mean vs Slug



Right In: -28.052+/-0.000  $\chi^2/\text{NDF}$ : 669135308108124774133511271481344.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

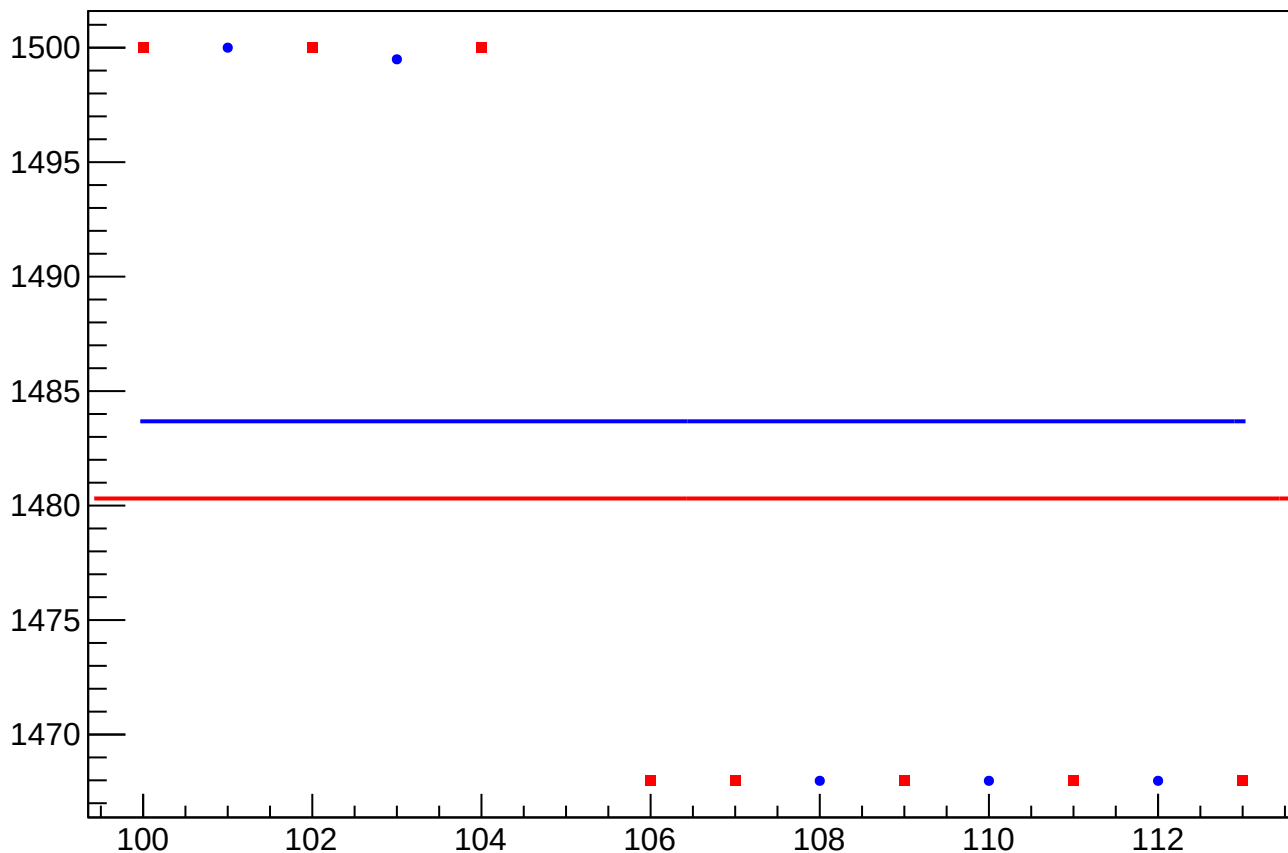
All: -28.244+/-0.000  $\chi^2/\text{NDF}$ : 151885477402

Right Out: -28.393+/-0.000  $\chi^2/\text{NDF}$ : 832726037014940406765567858442240.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# psub\_pl\_pos\_mean vs Slug



Right In: 1483.681+/-0.000  $\chi^2/\text{NDF}$ : 65358898937938914923872389294981120.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

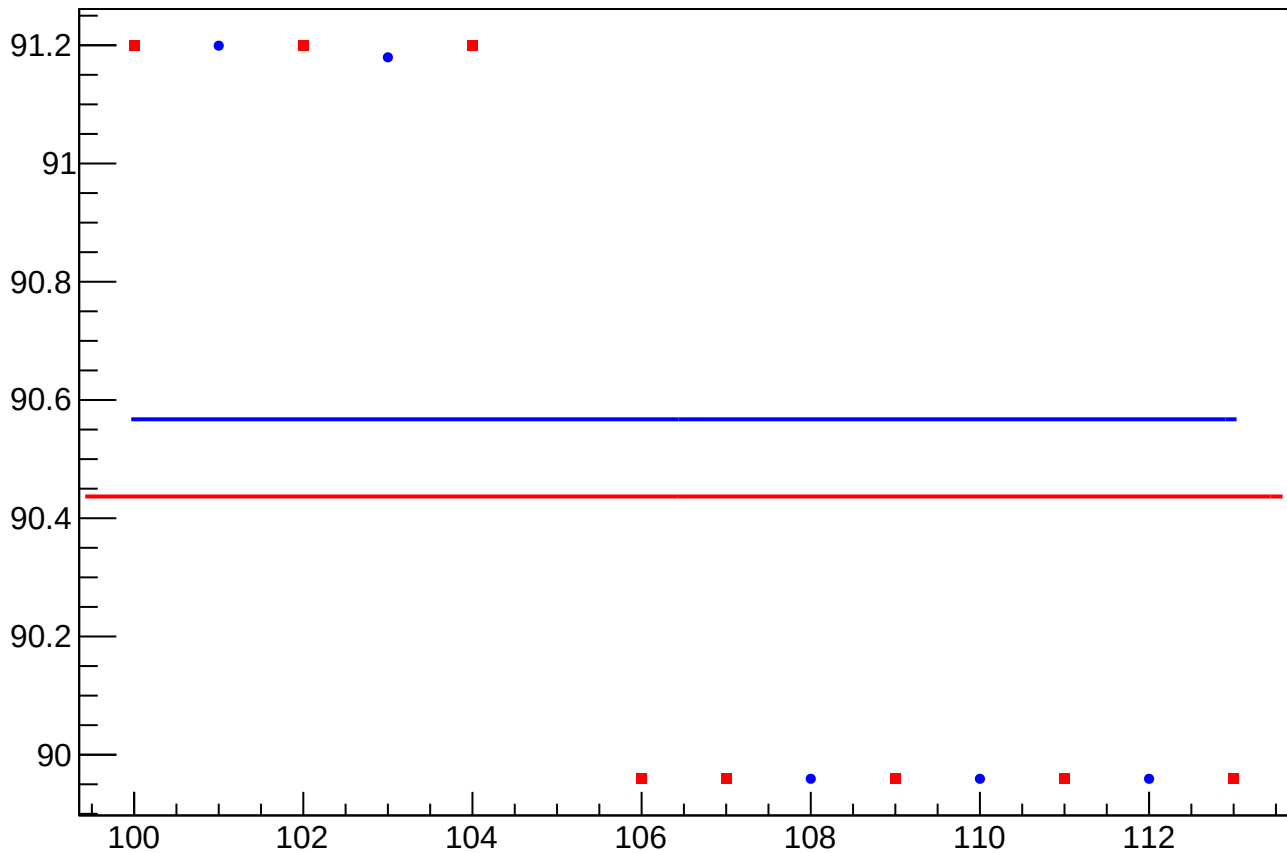
All: 1481.780+/-0.000  $\chi^2/\text{NDF}$ : 14835665443

Right Out: 1480.310+/-0.000  $\chi^2/\text{NDF}$ : 81337894199804491549354544450240512.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# Phi\_FG\_mean vs Slug



Right In: 90.567+/-0.000  $\chi^2/\text{NDF}$ : 98009302102111209475790501576704.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

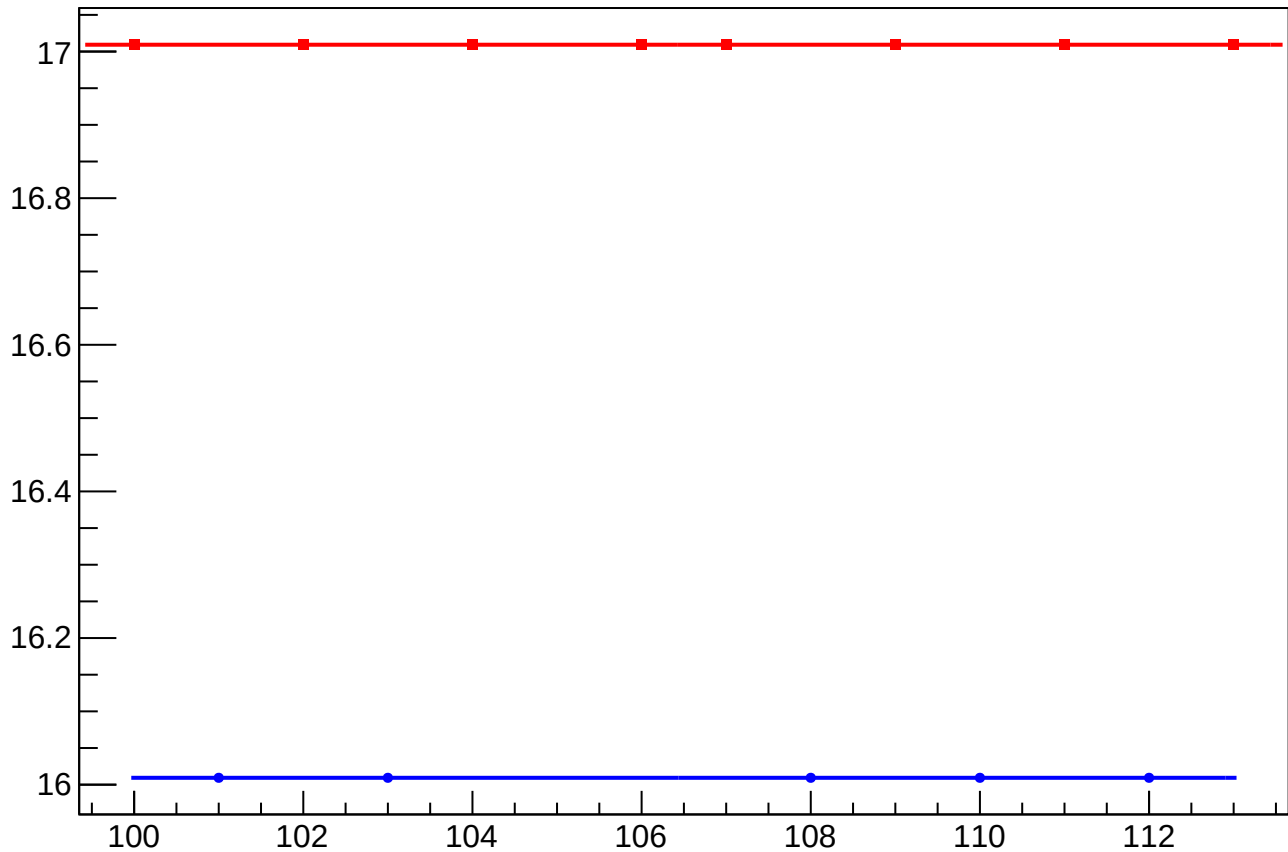
All: 90.494+/-0.000  $\chi^2/\text{NDF}$ : 2224690501202

Right Out: 90.437+/-0.000  $\chi^2/\text{NDF}$ : 121970693731356847697507861397504.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# IGL1I00DI24\_24M\_mean vs Slug



Right In: 16.009+/-0.000  $\chi^2/\text{NDF}$ : 16925.8/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

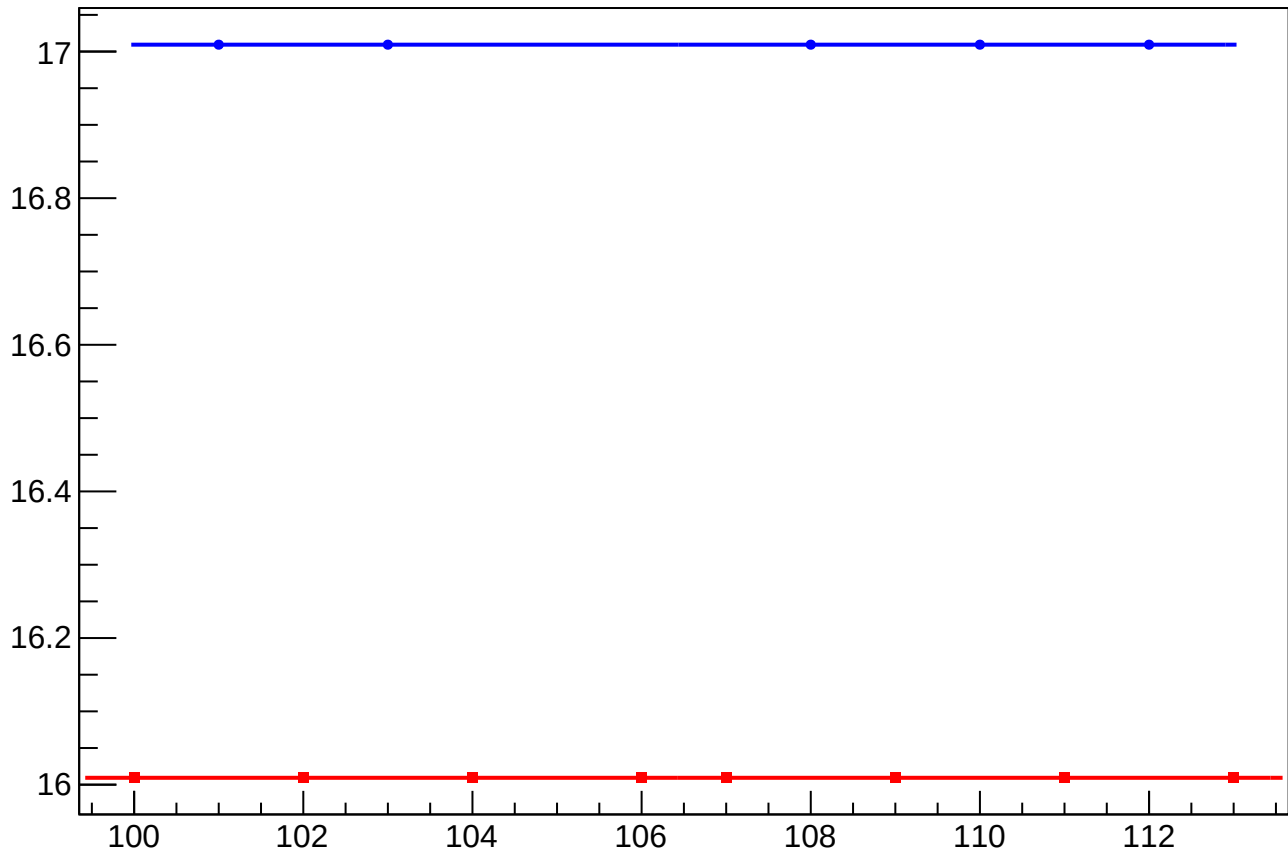
Right Out: 17.009+/-0.000  $\chi^2/\text{NDF}$ : 3205154758541071406333952.0/7

All: 16.545+/-0.000  $\chi^2/\text{NDF}$ : 1387643015607

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# IGL1I00OD16\_16\_mean vs Slug



Right In: 17.009 $\pm$ 0.000  $\chi^2$ /NDF: 24991.1/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.009 $\pm$ 0.000  $\chi^2$ /NDF: 24978.5/7

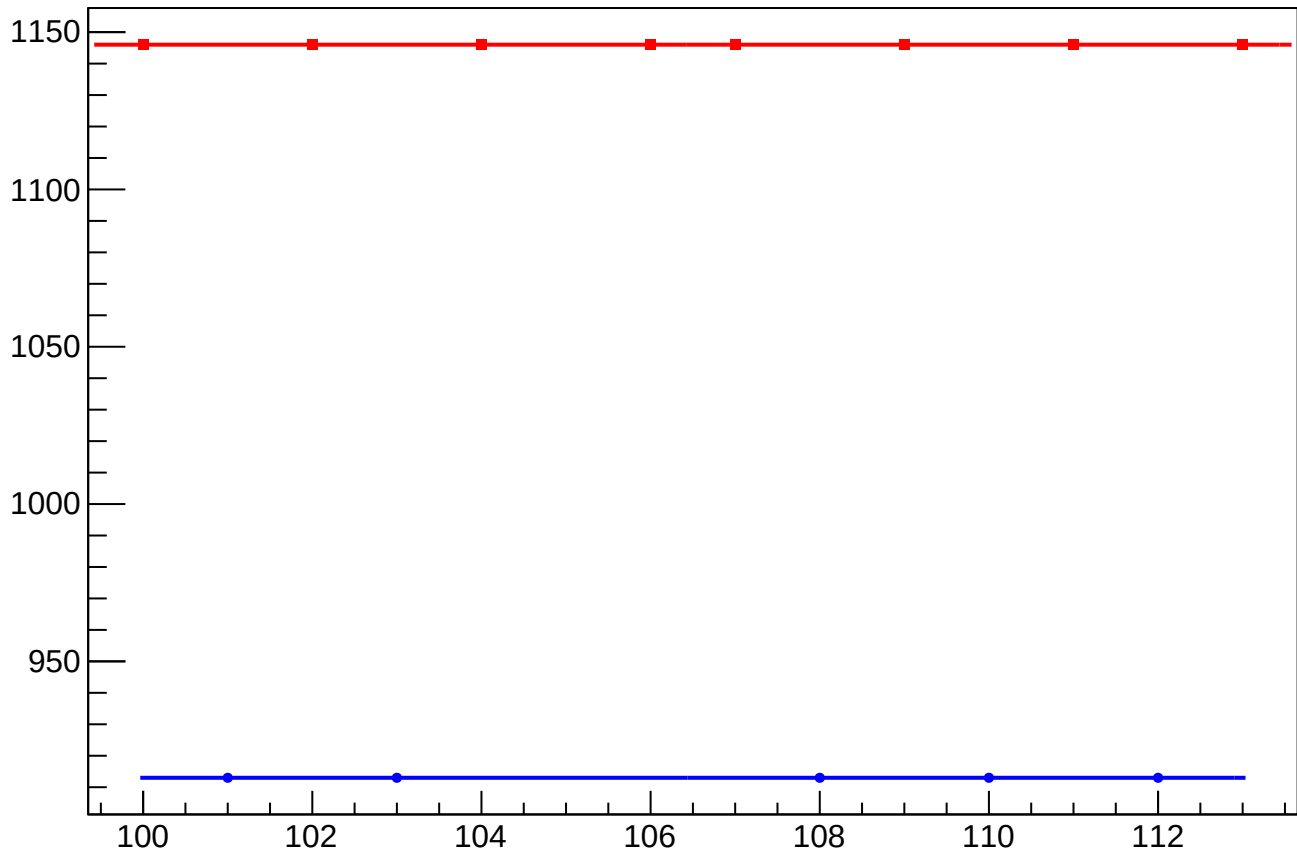
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.414 $\pm$ 0.000  $\chi^2$ /NDF: 1339478417260

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# RTPAPOSUCNT\_mean vs Slug



Right In: 912.994+/-0.000  $\chi^2/\text{NDF}$ : 1773500685145981395320963072.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

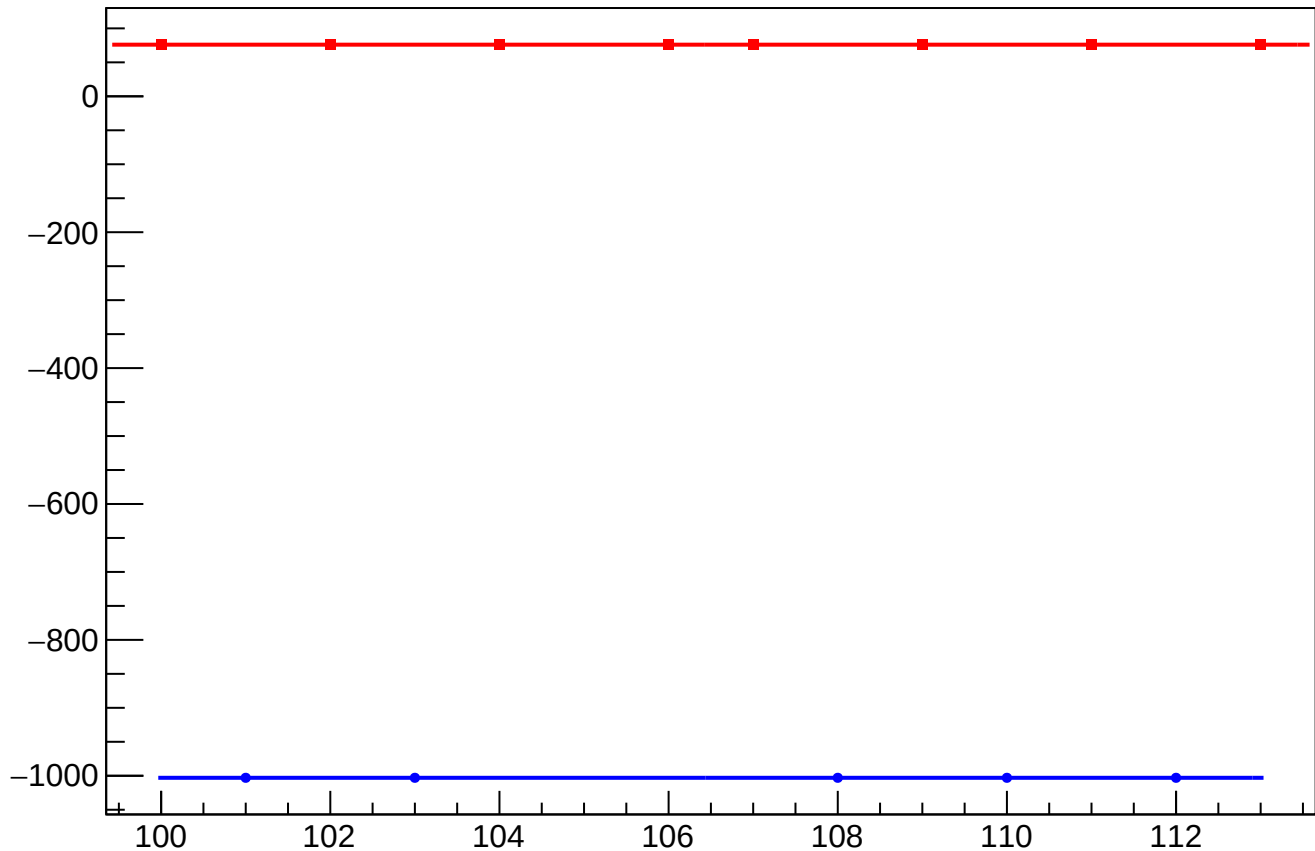
All: 1044.408+/-0.000  $\chi^2/\text{NDF}$ : 7931045393

Right Out: 1146.010+/-0.000  $\chi^2/\text{NDF}$ : 641431959100112586703634432.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# RTPAPOSVCNT\_mean vs Slug



Right In: -1002.989 $\pm$ 0.000  $\chi^2$ /NDF: 1176173414023368626109677568.0/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

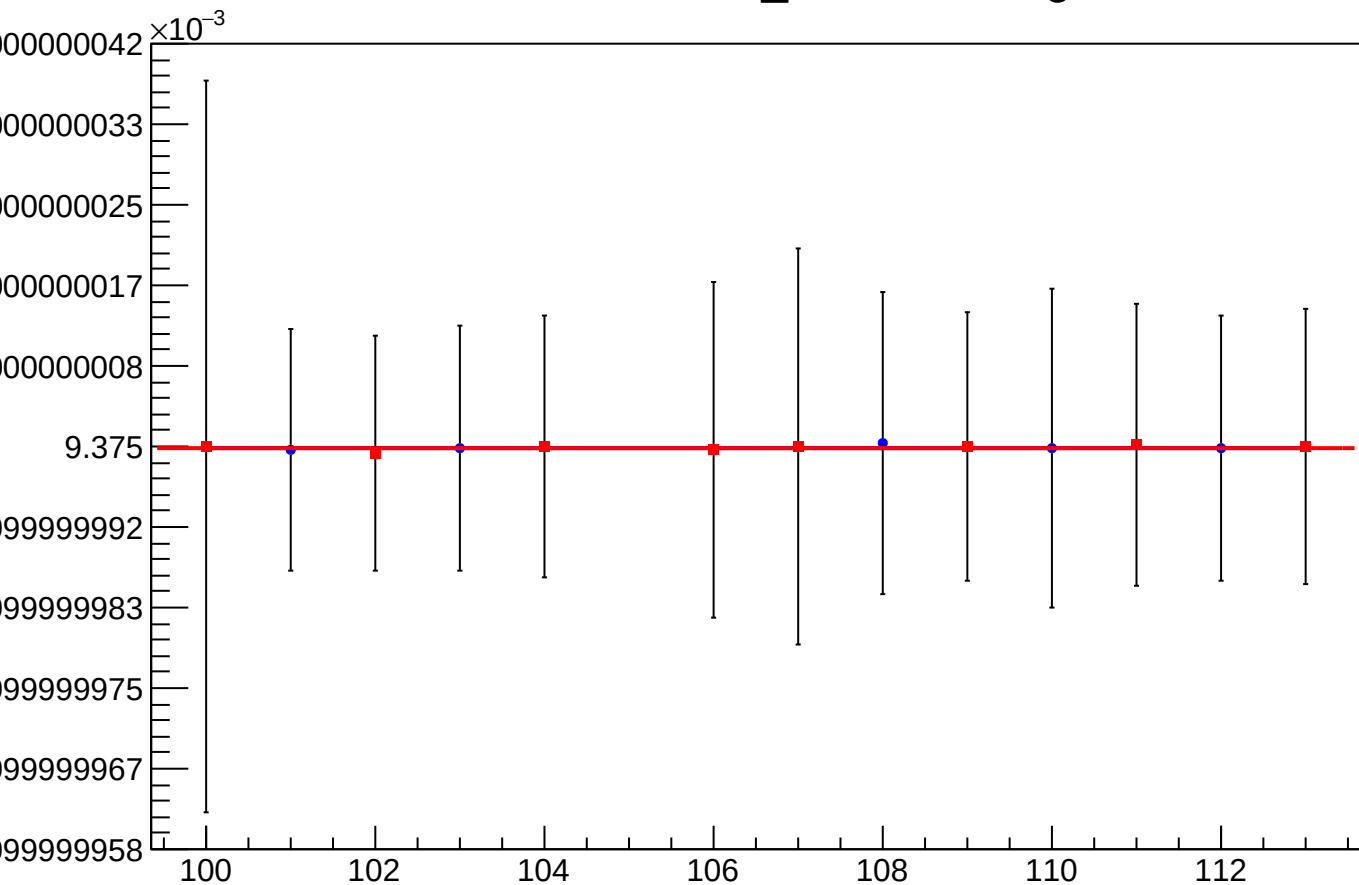
All: -394.463 $\pm$ 0.000  $\chi^2$ /NDF: 17005907711

Right Out: 76.009 $\pm$ 0.000  $\chi^2$ /NDF: 3446846543026368762871808.0/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# RTPPITA1CNT\_mean vs Slug



Right In: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

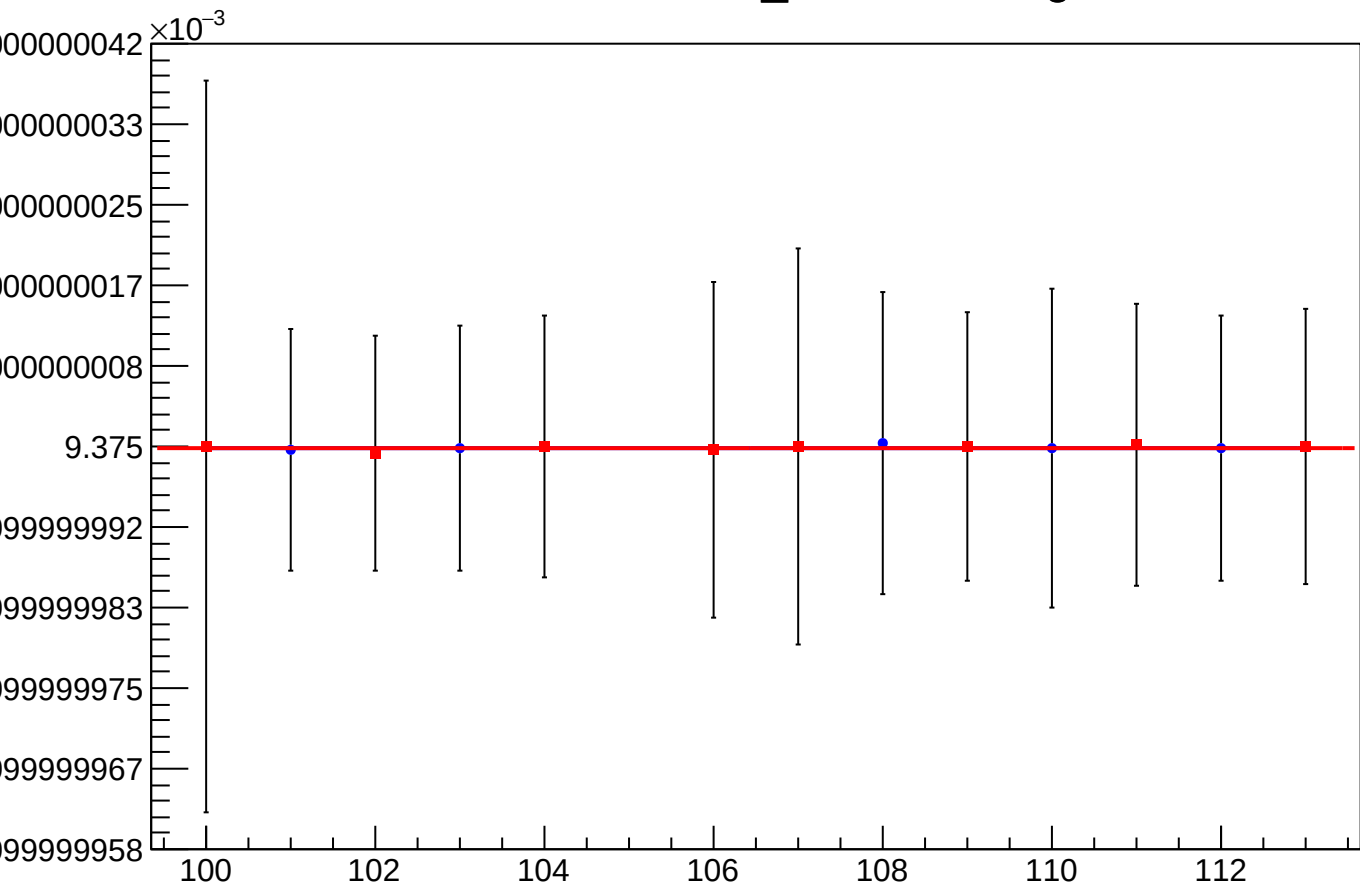
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# RTPPITA2CNT\_mean vs Slug



Right In: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/4

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/7

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0