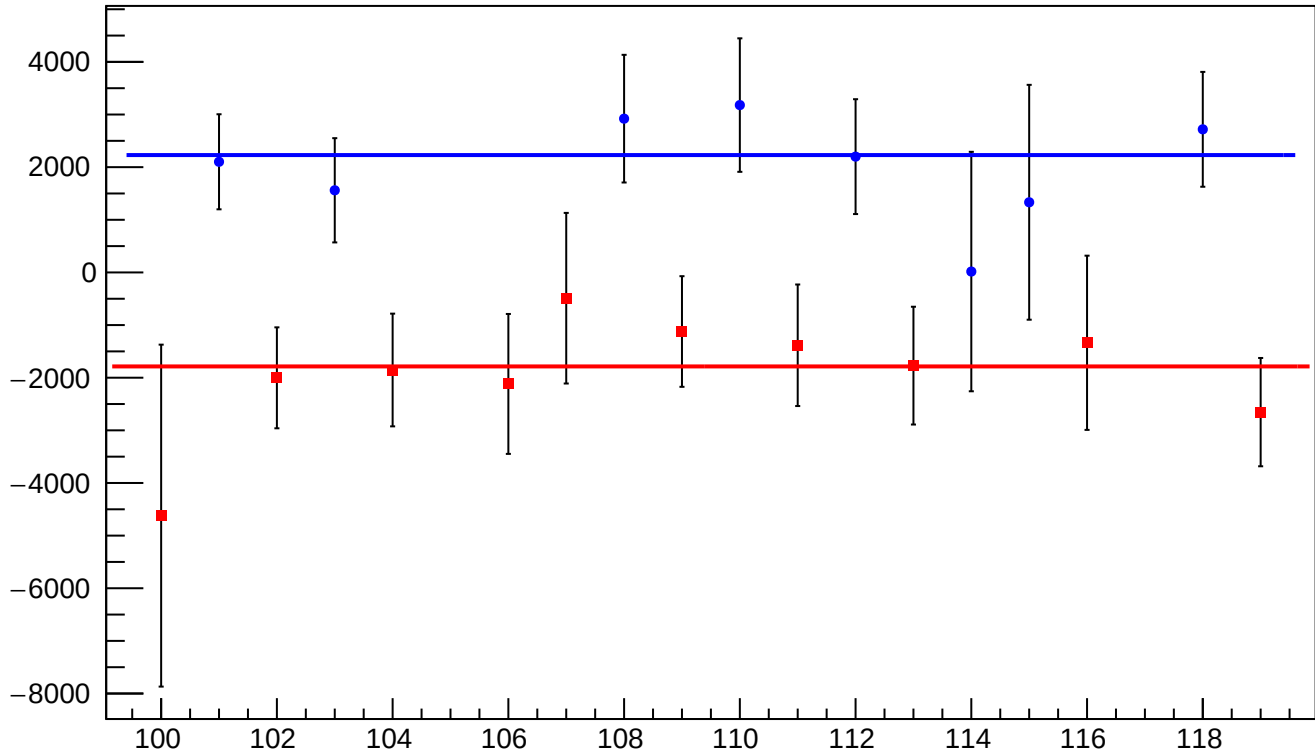


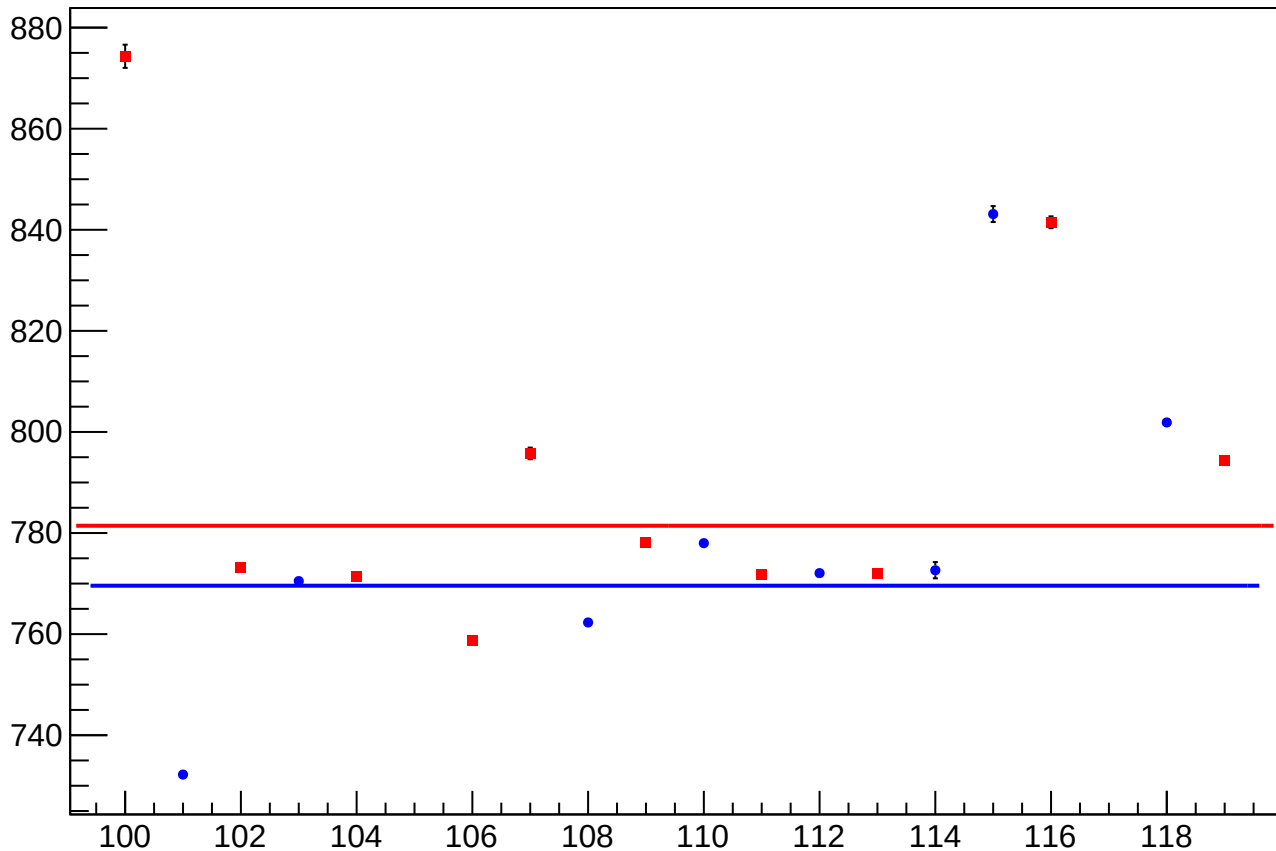
# reg\_asym\_us\_avg\_mean vs Slug



Right In: 2229.733 $\pm$ 421.737  $\chi^2$ /NDF: 2.7/7  
Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Right Out: -1785.762 $\pm$ 384.470  $\chi^2$ /NDF: 2.8/9  
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
All: 36.768 $\pm$ 284.125  $\chi^2$ /NDF: 55.0/17  
- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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



Right In: 769.577+/-0.298  $\chi^2/\text{NDF}$ : 7527.1/7

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

Right Out: 781.443+/-0.272  $\chi^2/\text{NDF}$ : 5940.1/9

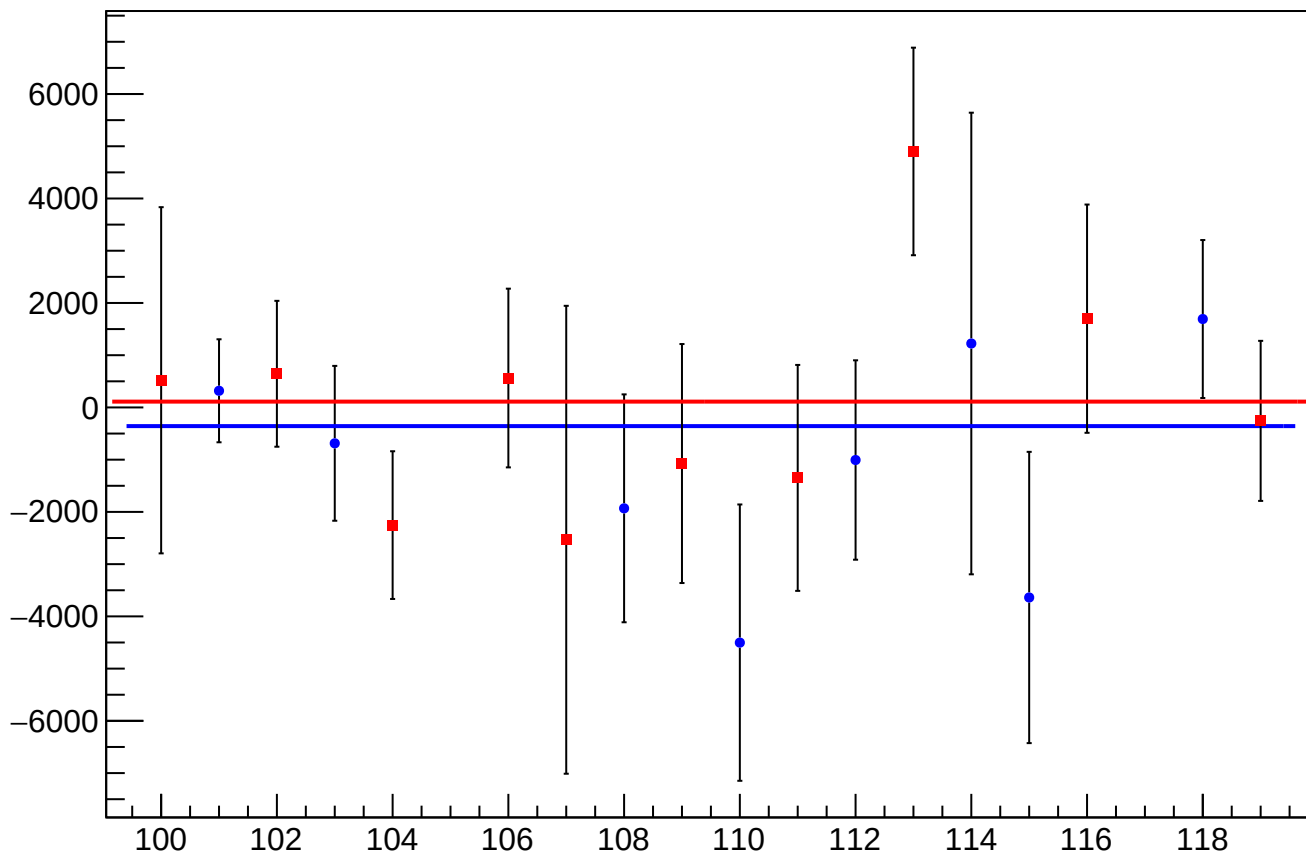
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 776.057+/-0.201  $\chi^2/\text{NDF}$ : 14331.9/17

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

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



Right In: -357.443+/-605.376  $\chi^2/\text{NDF}$ : 7.0/7

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

Right Out: 111.521+/-598.738  $\chi^2/\text{NDF}$ : 10.5/9

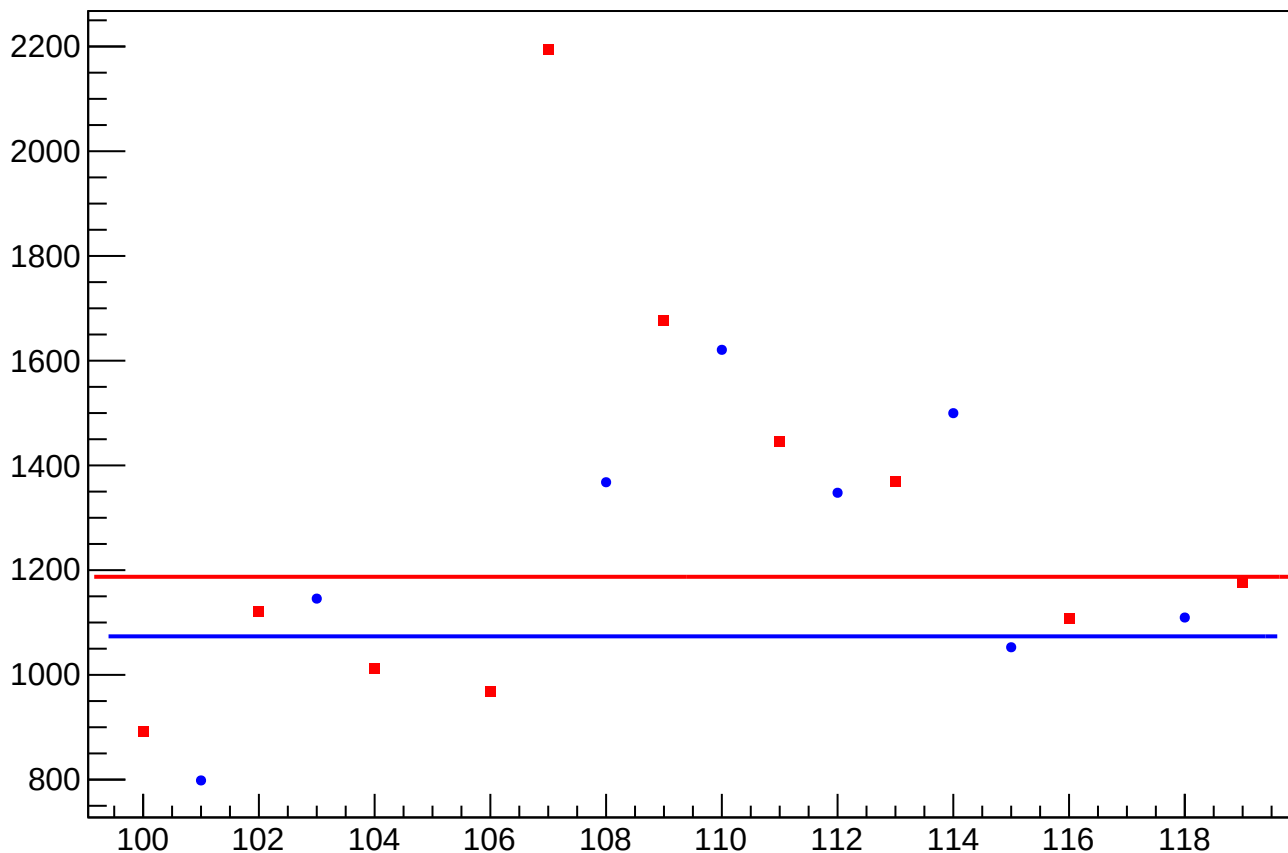
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -120.376+/-425.699  $\chi^2/\text{NDF}$ : 17.8/17

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

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



Right In: 1073.572+/-0.428  $\chi^2/\text{NDF}$ : 343603.5/7

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

Right Out: 1187.319+/-0.423  $\chi^2/\text{NDF}$ : 324711.3/9

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

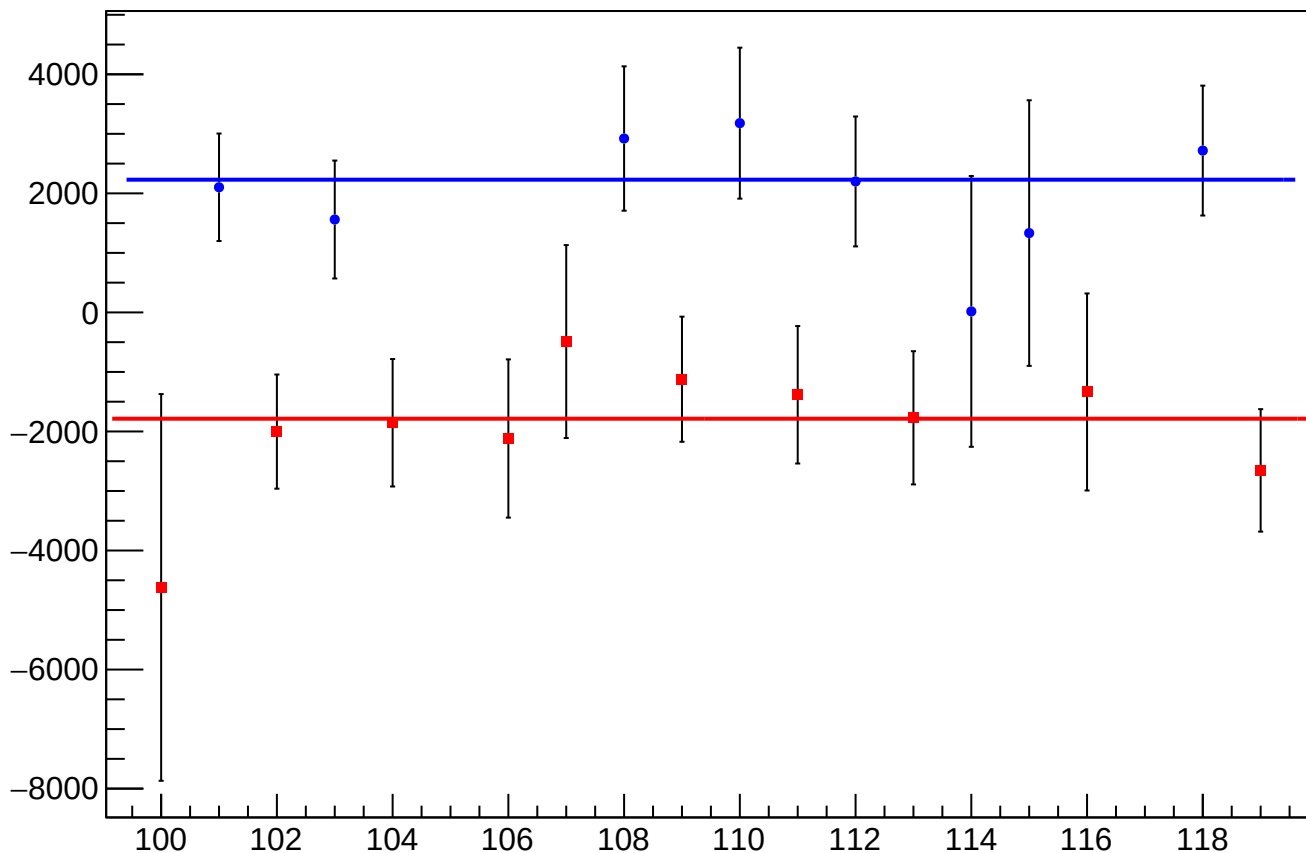
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1131.073+/-0.301  $\chi^2/\text{NDF}$ : 704008.6/17

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



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



Right In: 2229.733 $\pm$ 421.737  $\chi^2$ /NDF: 2.7/7

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

Right Out: -1785.762 $\pm$ 384.470  $\chi^2$ /NDF: 2.8/9

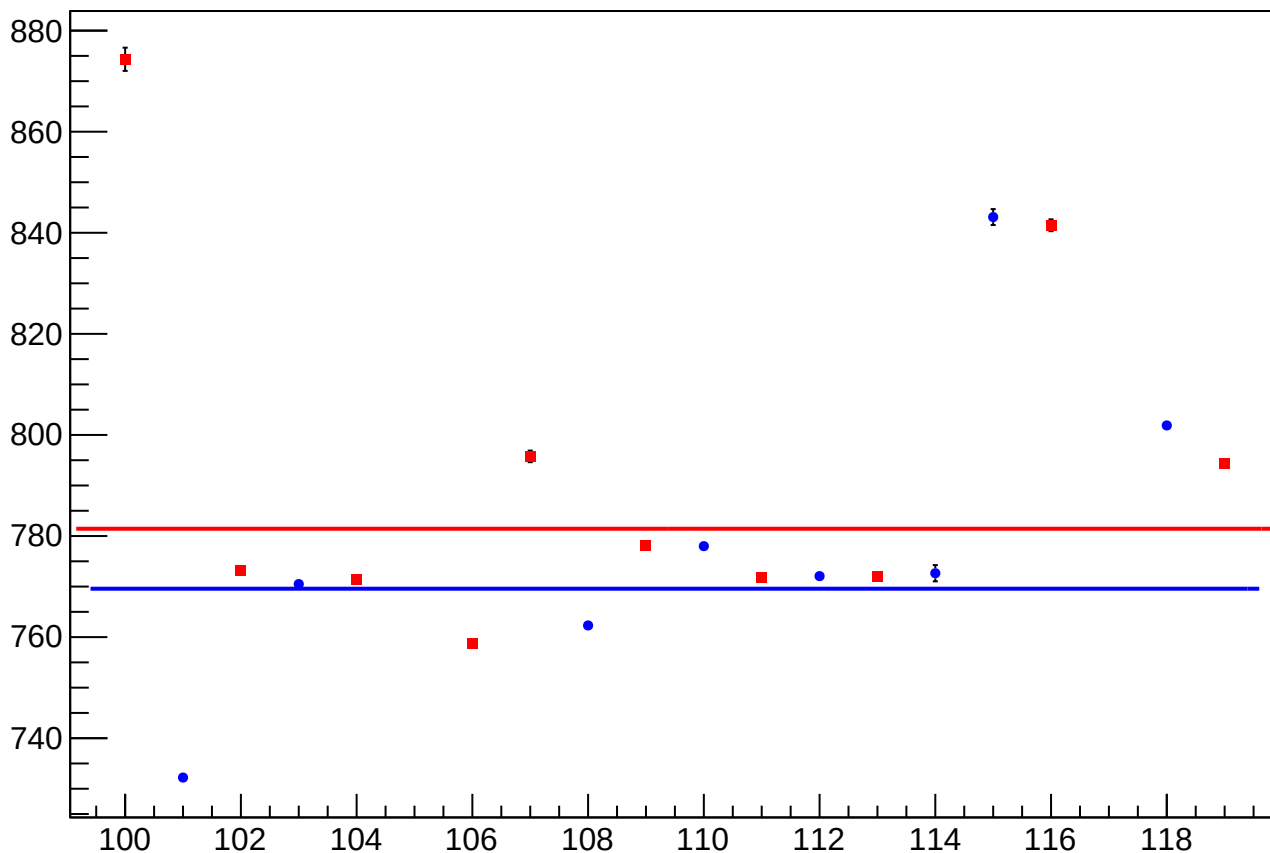
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 36.768 $\pm$ 284.125  $\chi^2$ /NDF: 55.0/17

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

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



Right In: 769.577 $\pm$ 0.298  $\chi^2$ /NDF: 7527.1/7

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

Right Out: 781.443 $\pm$ 0.272  $\chi^2$ /NDF: 5940.1/9

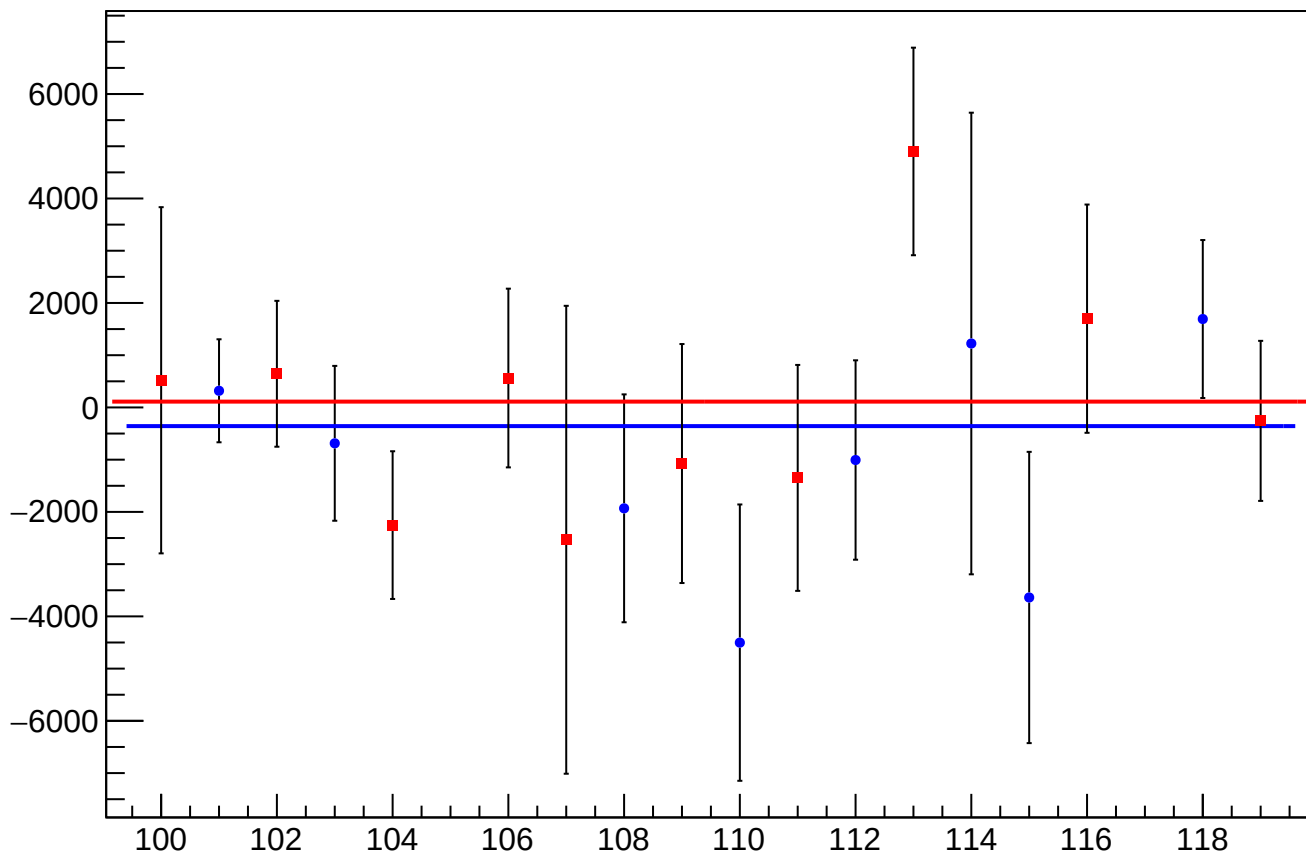
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 776.057 $\pm$ 0.201  $\chi^2$ /NDF: 14331.9/17

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

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



Right In: -357.443+/-605.376  $\chi^2/\text{NDF}$ : 7.0/7

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

Right Out: 111.521+/-598.738  $\chi^2/\text{NDF}$ : 10.5/9

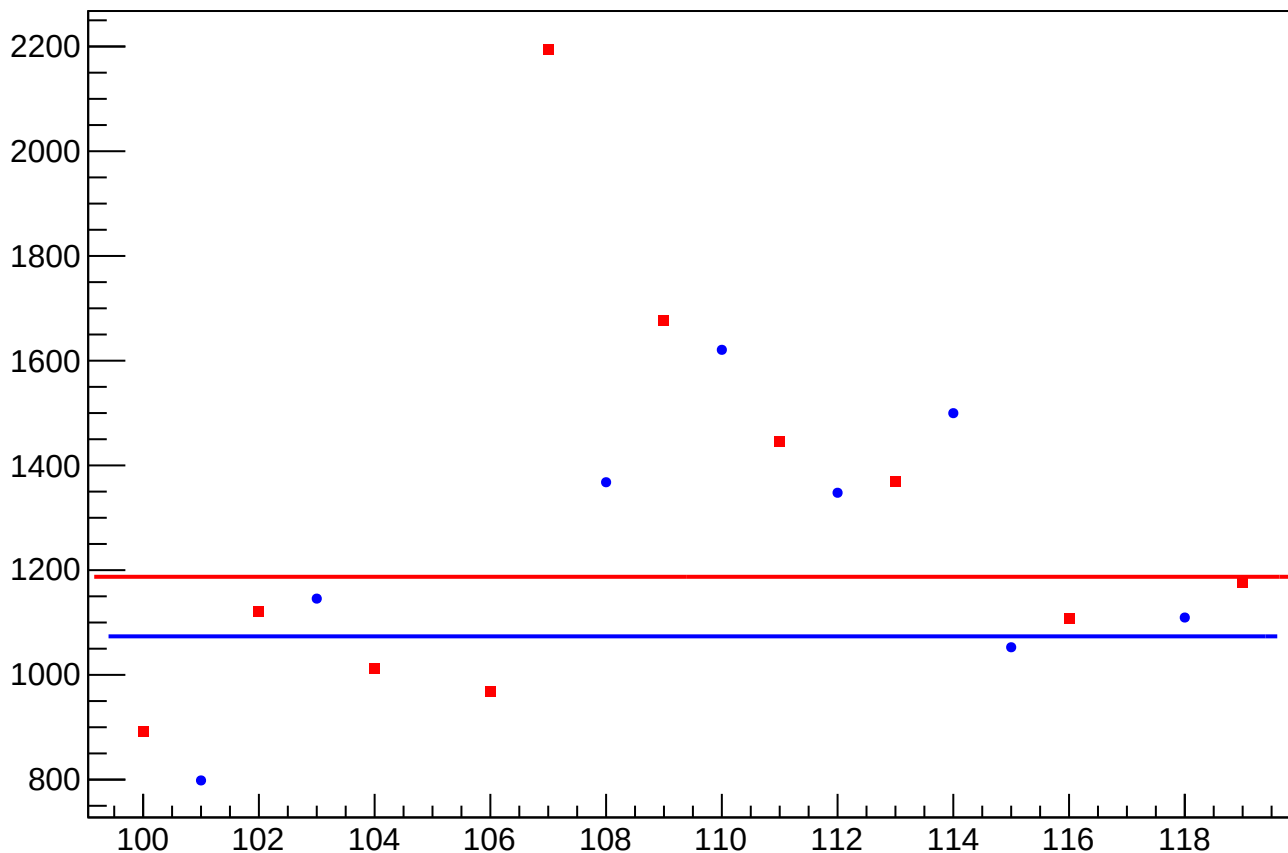
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -120.376+/-425.699  $\chi^2/\text{NDF}$ : 17.8/17

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

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



Right In: 1073.572+/-0.428  $\chi^2/\text{NDF}$ : 343603.5/7

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

Right Out: 1187.319+/-0.423  $\chi^2/\text{NDF}$ : 324711.3/9

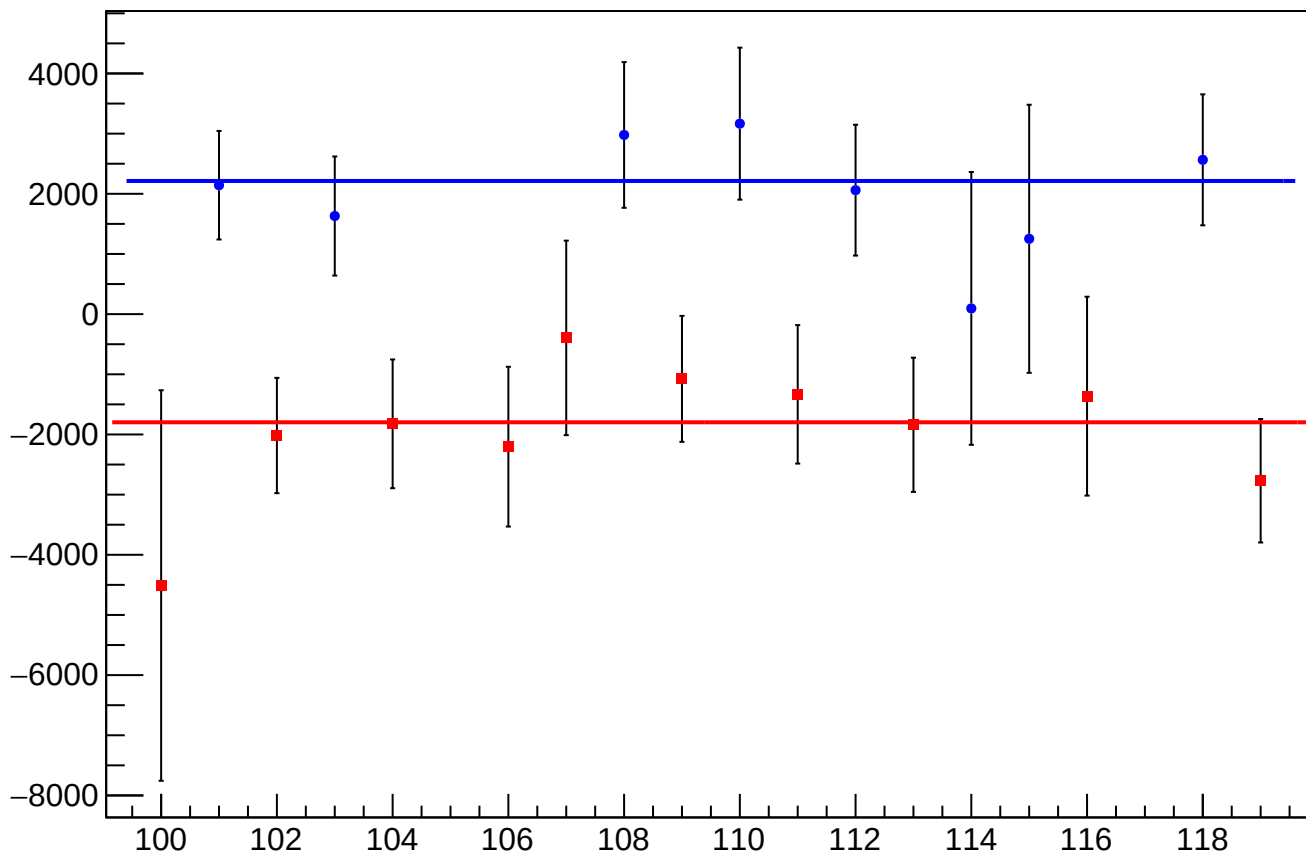
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1131.073+/-0.301  $\chi^2/\text{NDF}$ : 704008.6/17

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

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



Right In: 2213.196 $\pm$ 420.888  $\chi^2$ /NDF: 2.5/7

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

Right Out: -1797.740 $\pm$ 383.659  $\chi^2$ /NDF: 3.2/9

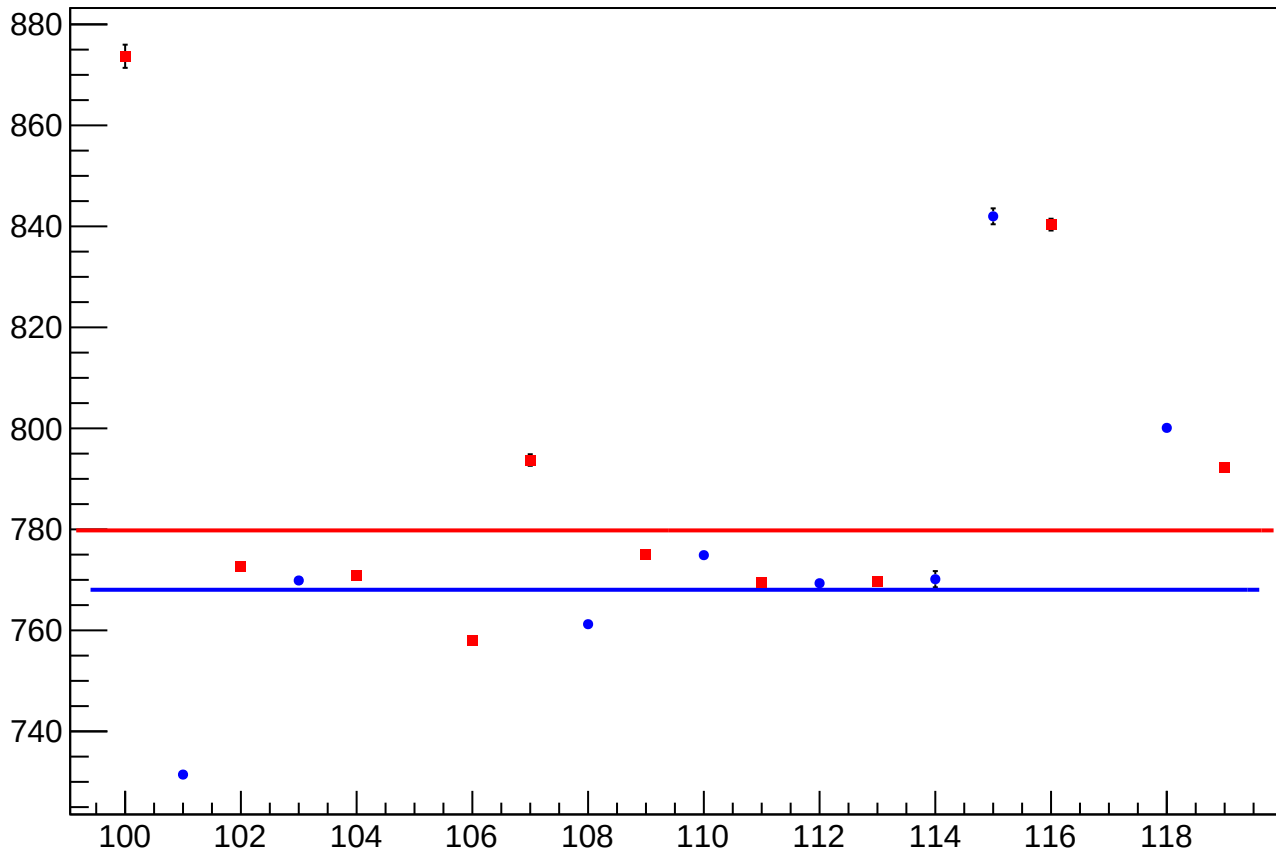
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 22.522 $\pm$ 283.538  $\chi^2$ /NDF: 55.3/17

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

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



Right In: 768.040 $\pm$ 0.298  $\chi^2$ /NDF: 7363.9/7

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

Right Out: 779.794 $\pm$ 0.271  $\chi^2$ /NDF: 5956.5/9

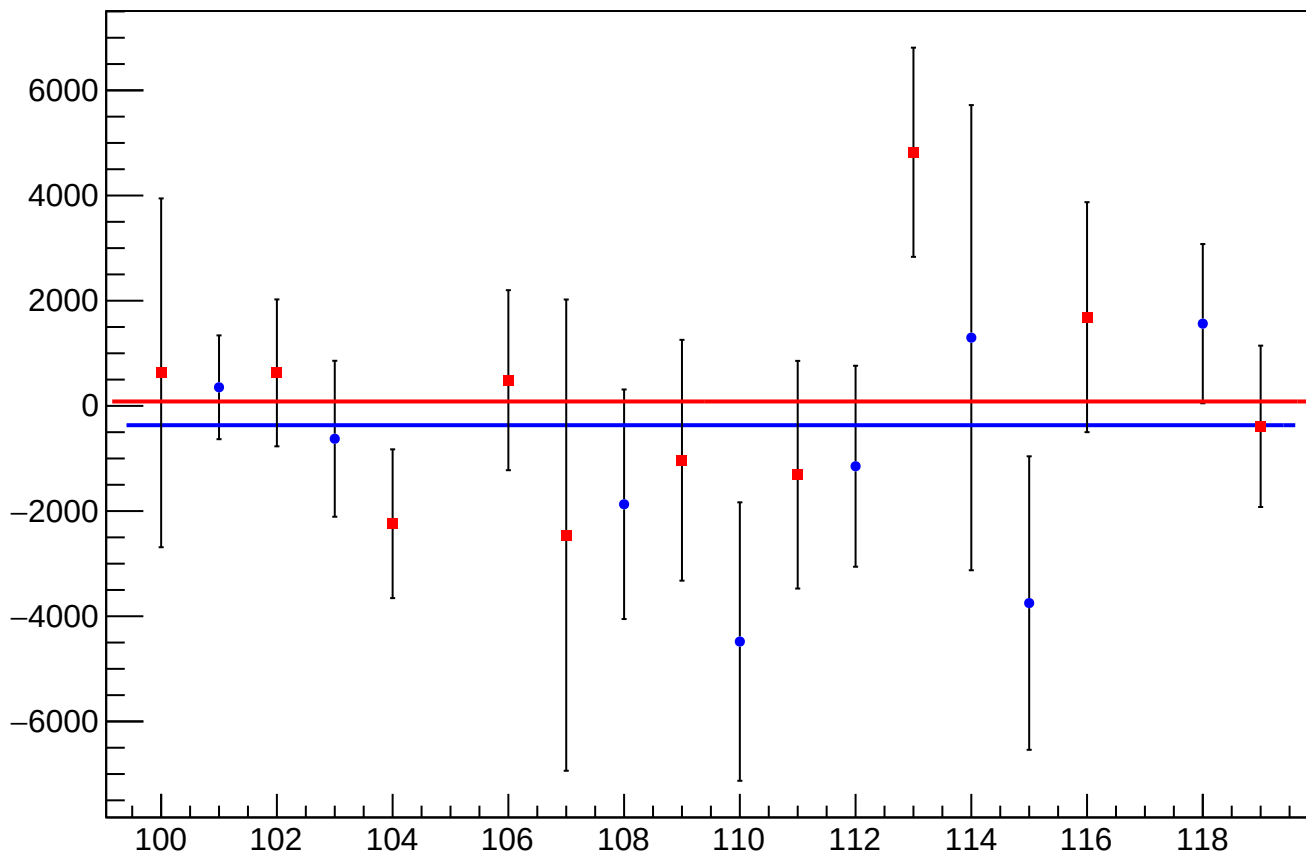
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 774.460 $\pm$ 0.200  $\chi^2$ /NDF: 14172.4/17

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

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



Right In: -367.142+/-605.882  $\chi^2/\text{NDF}$ : 6.9/7

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

Right Out: 84.035+/-599.152  $\chi^2/\text{NDF}$ : 10.2/9

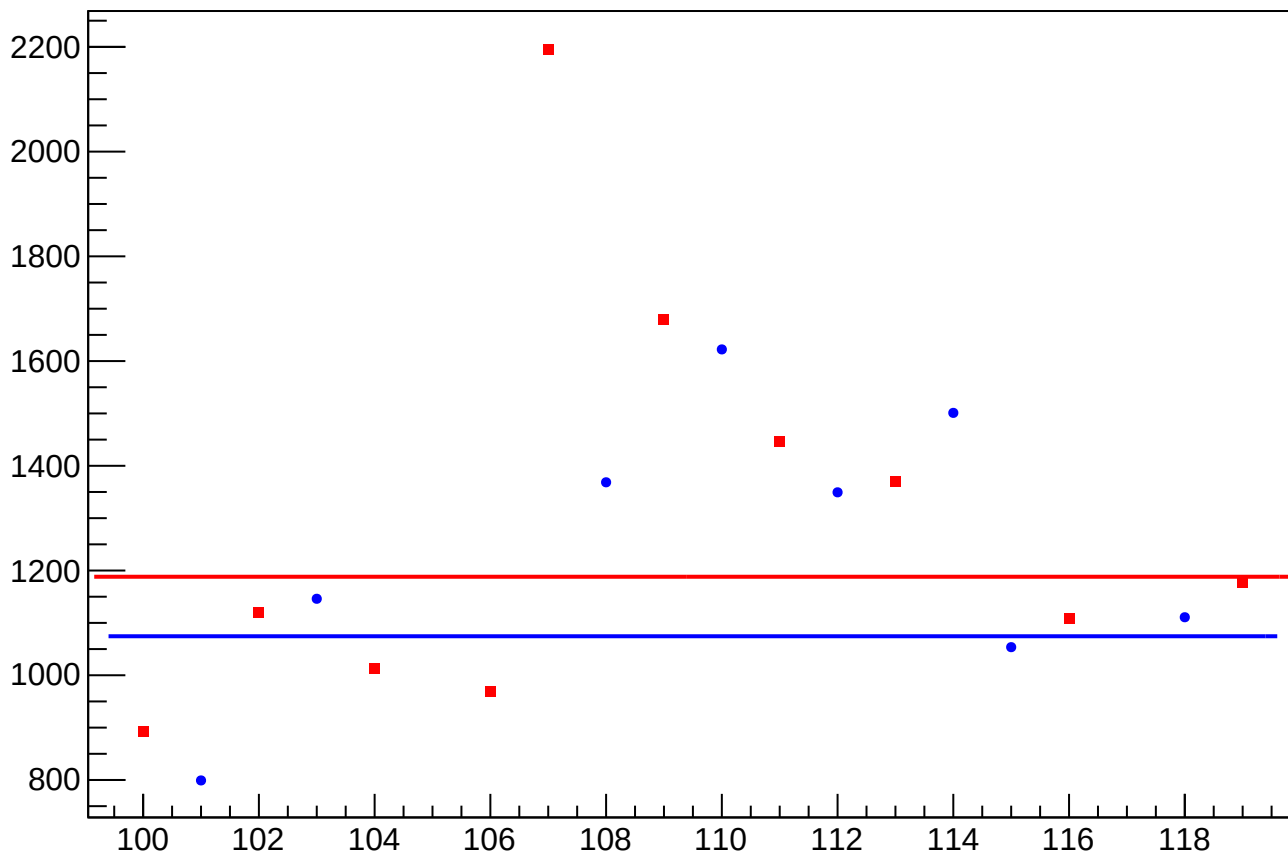
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -139.034+/-426.024  $\chi^2/\text{NDF}$ : 17.4/17

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

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



Right In: 1074.480+/-0.428  $\chi^2/\text{NDF}$ : 343522.7/7

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

Right Out: 1188.129+/-0.424  $\chi^2/\text{NDF}$ : 324960.4/9

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

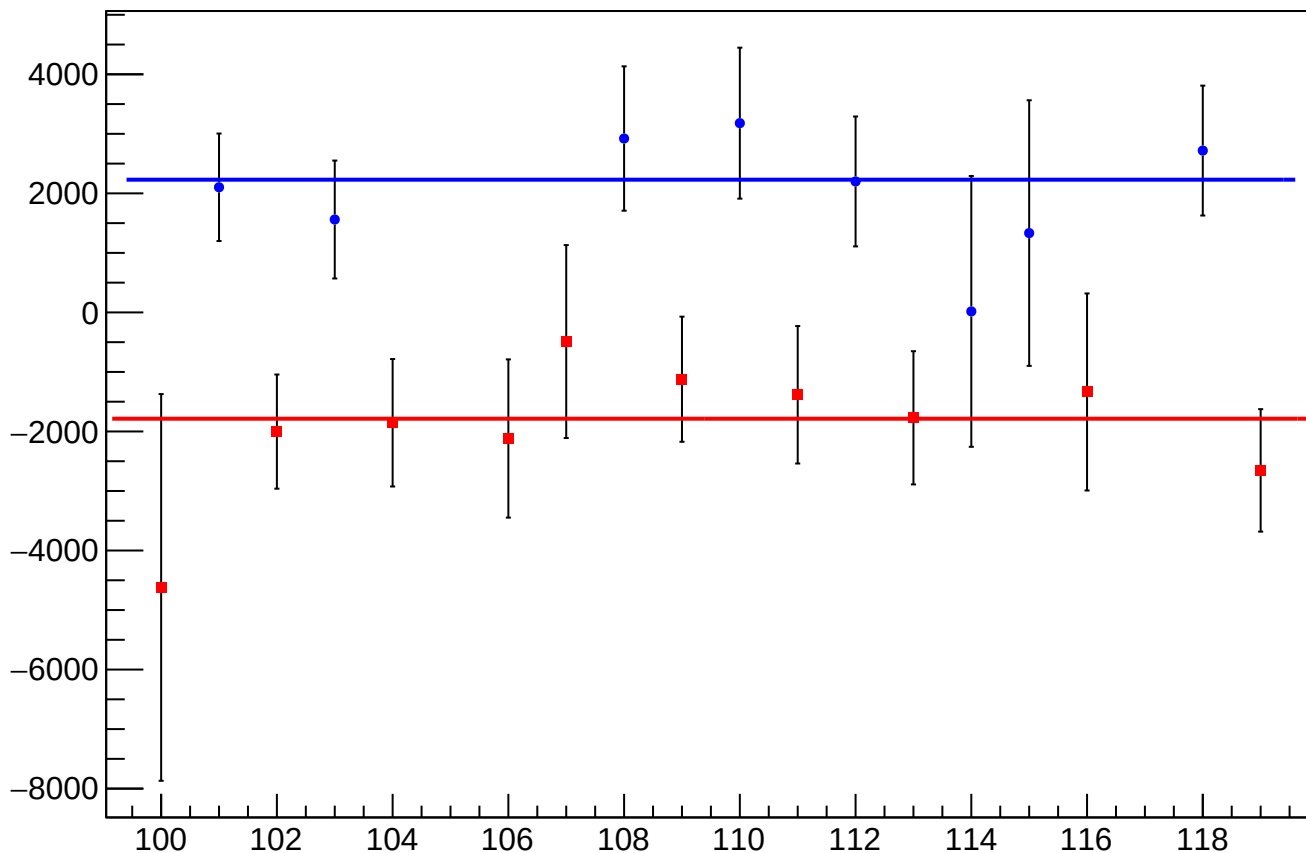
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1131.939+/-0.301  $\chi^2/\text{NDF}$ : 704060.6/17

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



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



Right In: 2229.733 $\pm$ 421.737  $\chi^2$ /NDF: 2.7/7

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

Right Out: -1785.762 $\pm$ 384.470  $\chi^2$ /NDF: 2.8/9

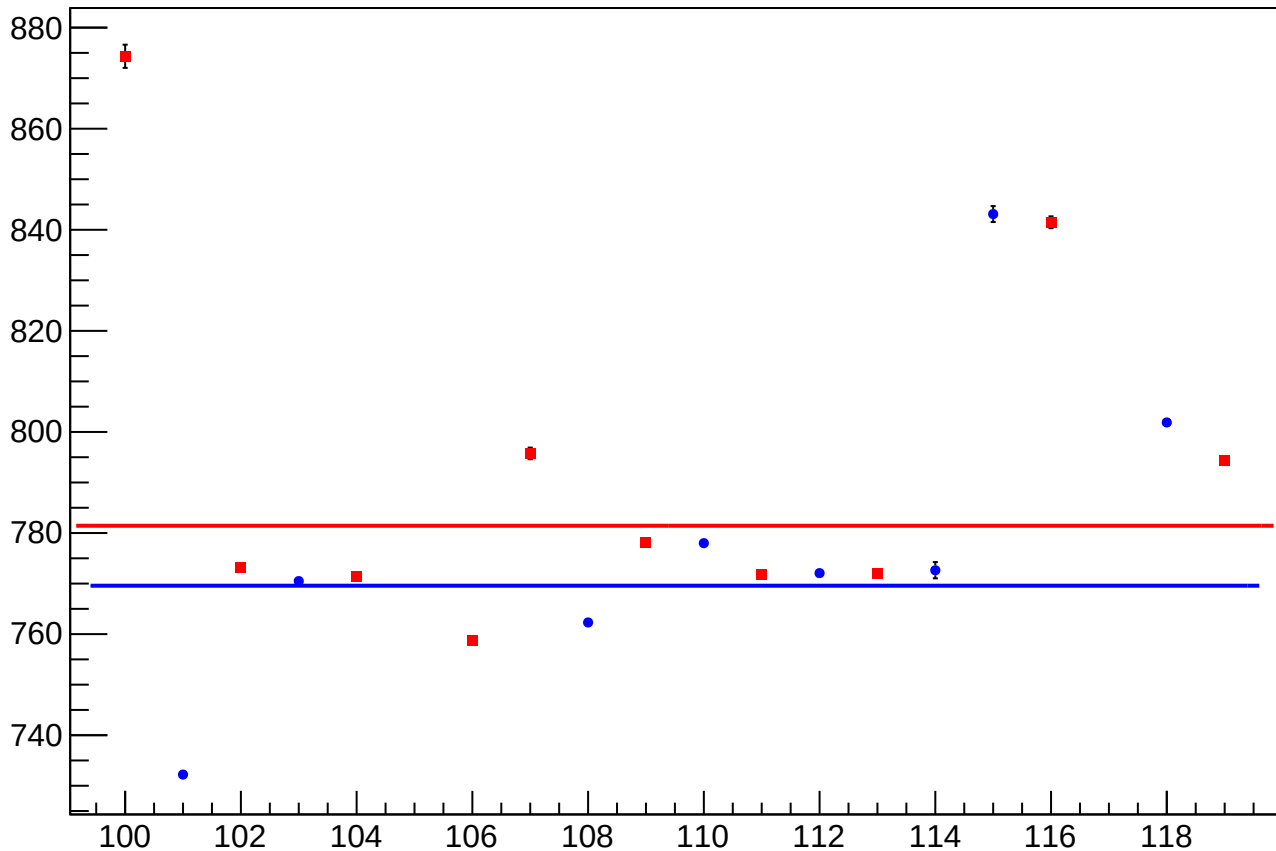
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 36.768 $\pm$ 284.125  $\chi^2$ /NDF: 55.0/17

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

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



Right In: 769.577 $\pm$ 0.298  $\chi^2$ /NDF: 7527.1/7

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

Right Out: 781.443 $\pm$ 0.272  $\chi^2$ /NDF: 5940.1/9

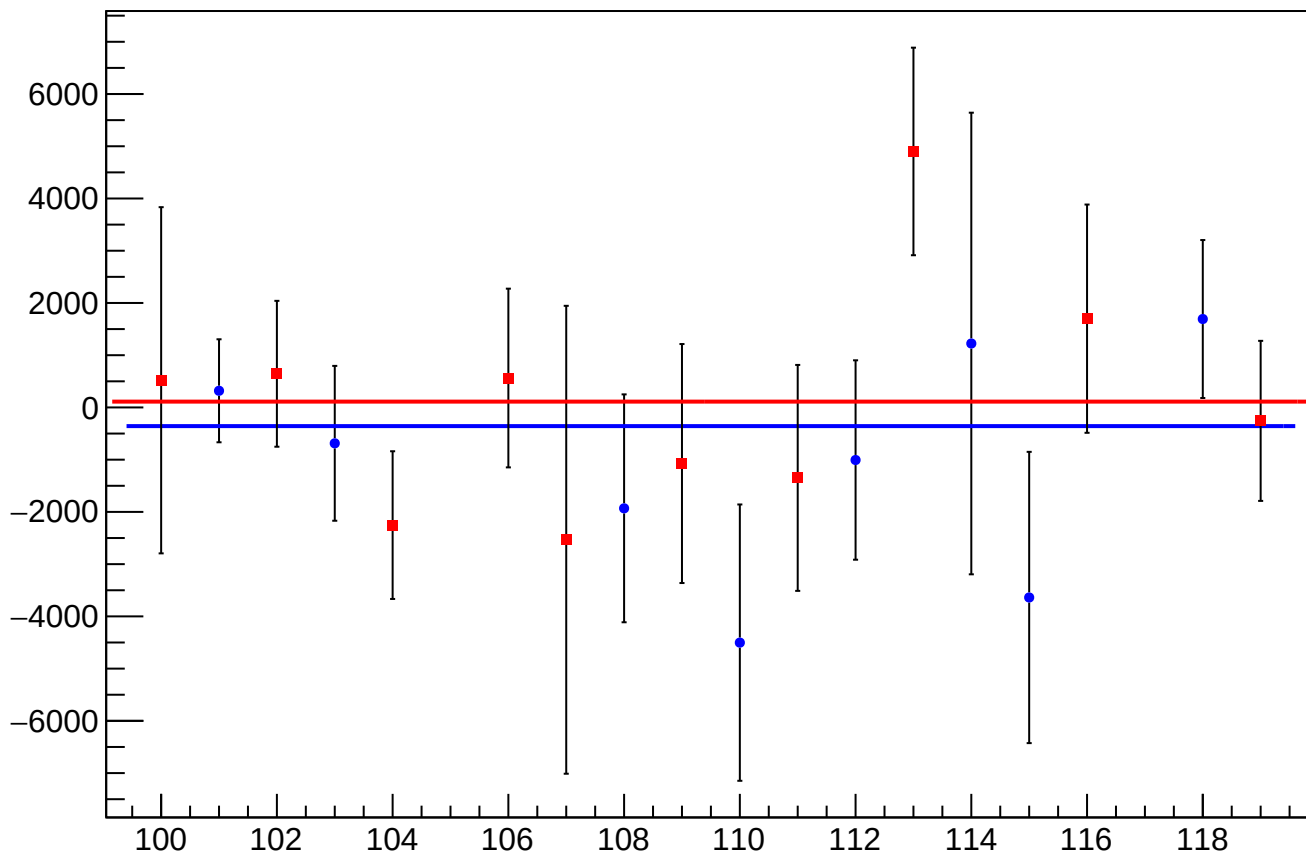
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 776.057 $\pm$ 0.201  $\chi^2$ /NDF: 14331.9/17

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

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



Right In: -357.443+/-605.376  $\chi^2/\text{NDF}$ : 7.0/7

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

Right Out: 111.521+/-598.738  $\chi^2/\text{NDF}$ : 10.5/9

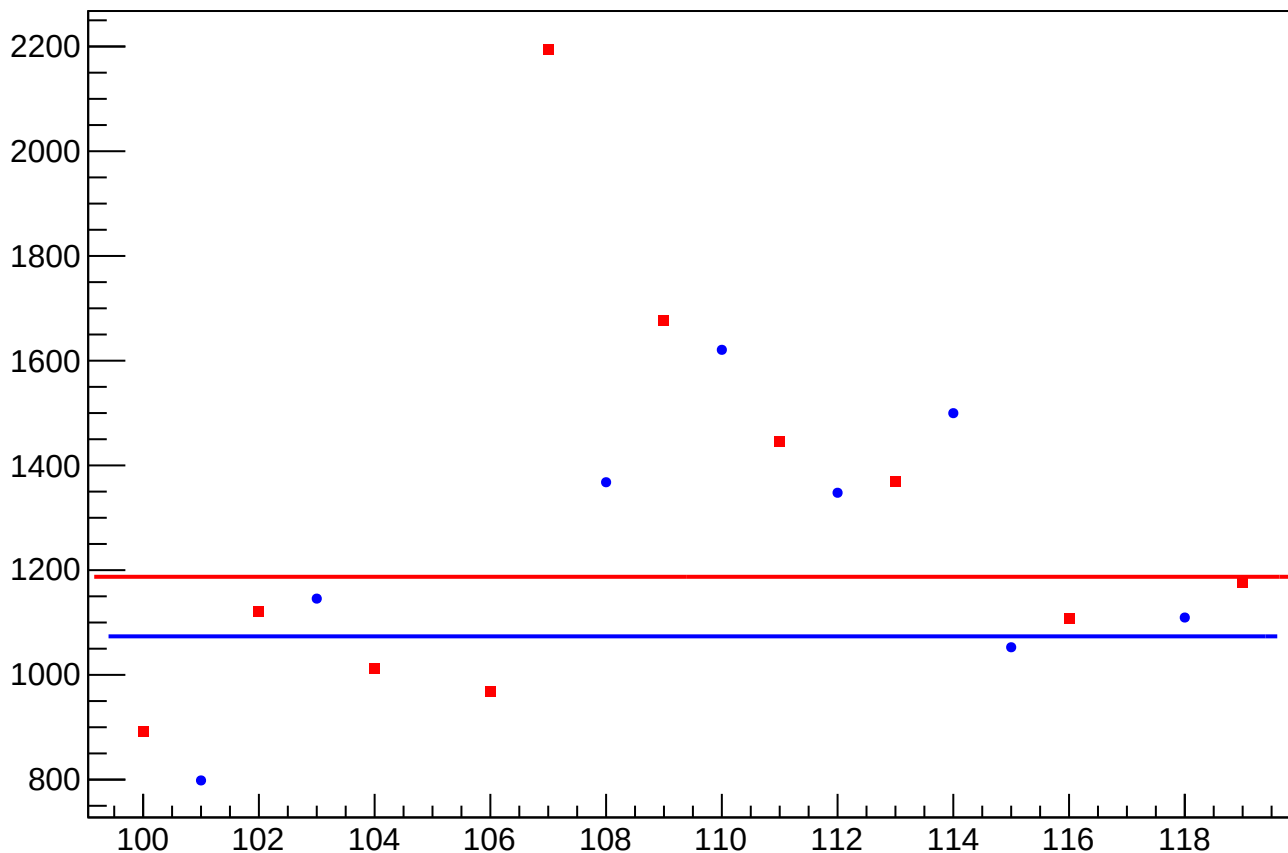
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -120.376+/-425.699  $\chi^2/\text{NDF}$ : 17.8/17

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

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



Right In: 1073.572+/-0.428  $\chi^2/\text{NDF}$ : 343603.5/7

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

Right Out: 1187.319+/-0.423  $\chi^2/\text{NDF}$ : 324711.3/9

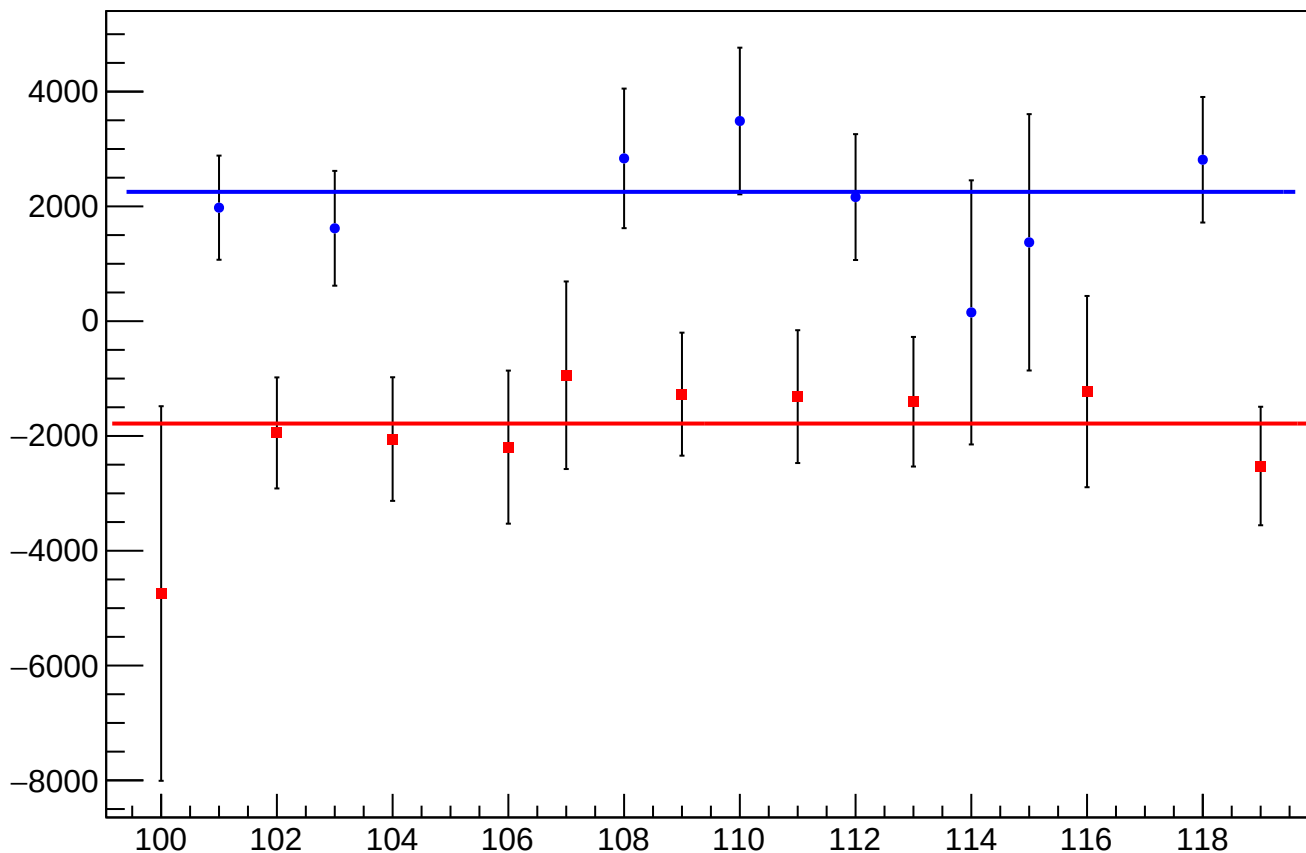
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1131.073+/-0.301  $\chi^2/\text{NDF}$ : 704008.6/17

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

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



Right In: 2253.203+/-424.083  $\chi^2/\text{NDF}$ : 2.9/7

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

Right Out: -1783.754+/-387.448  $\chi^2/\text{NDF}$ : 2.4/9

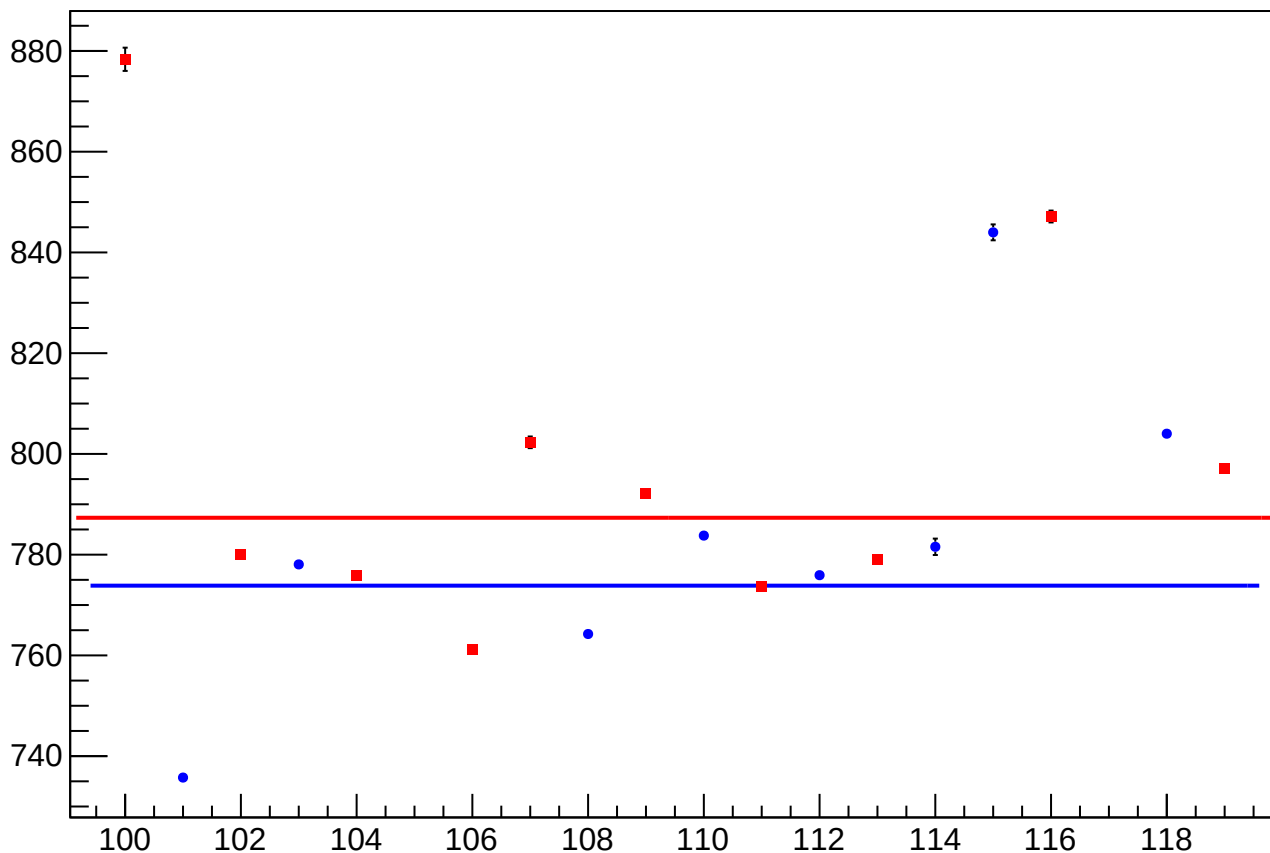
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 52.853+/-286.043  $\chi^2/\text{NDF}$ : 54.7/17

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

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



Right In: 773.845 $\pm$ 0.300  $\chi^2$ /NDF: 7331.2/7

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

Right Out: 787.325 $\pm$ 0.274  $\chi^2$ /NDF: 6012.6/9

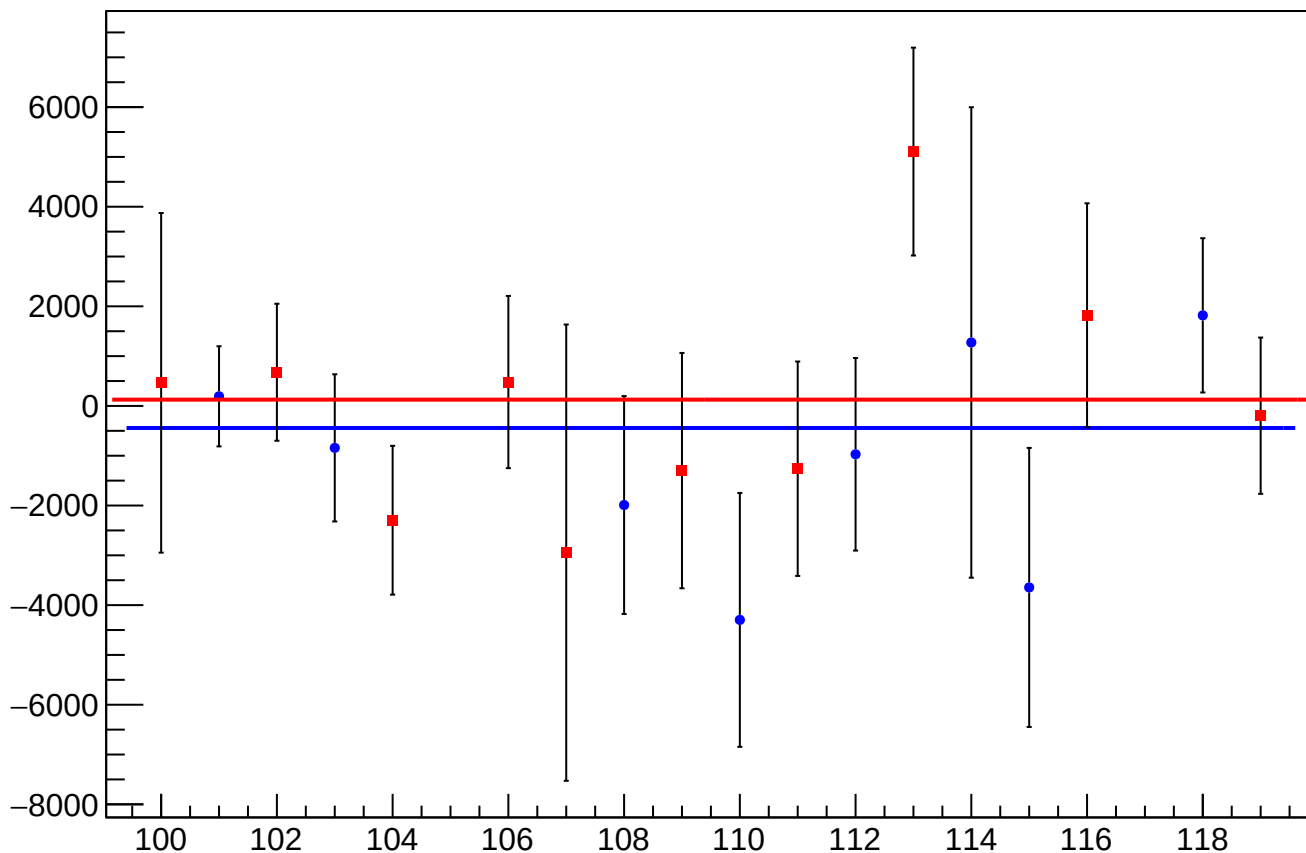
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 781.192 $\pm$ 0.202  $\chi^2$ /NDF: 14445.2/17

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

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



Right In: -442.755+/-612.405  $\chi^2/\text{NDF}$ : 6.9/7

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

Right Out: 126.500+/-611.593  $\chi^2/\text{NDF}$ : 10.4/9

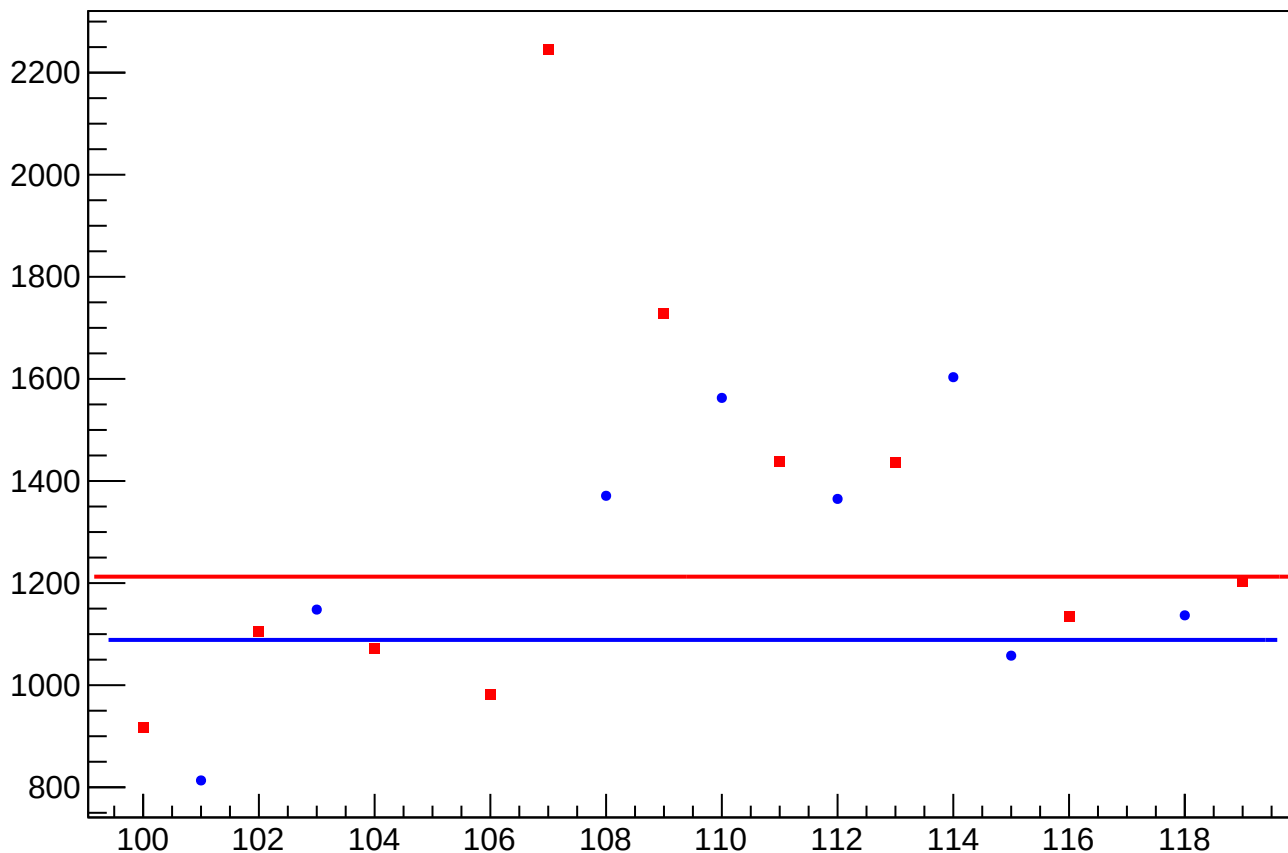
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -157.750+/-432.749  $\chi^2/\text{NDF}$ : 17.7/17

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

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



Right In: 1088.684+/-0.433     $\chi^2/\text{NDF}$ : 322401.0/7

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

Right Out: 1212.601+/-0.432     $\chi^2/\text{NDF}$ : 324967.7/9

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

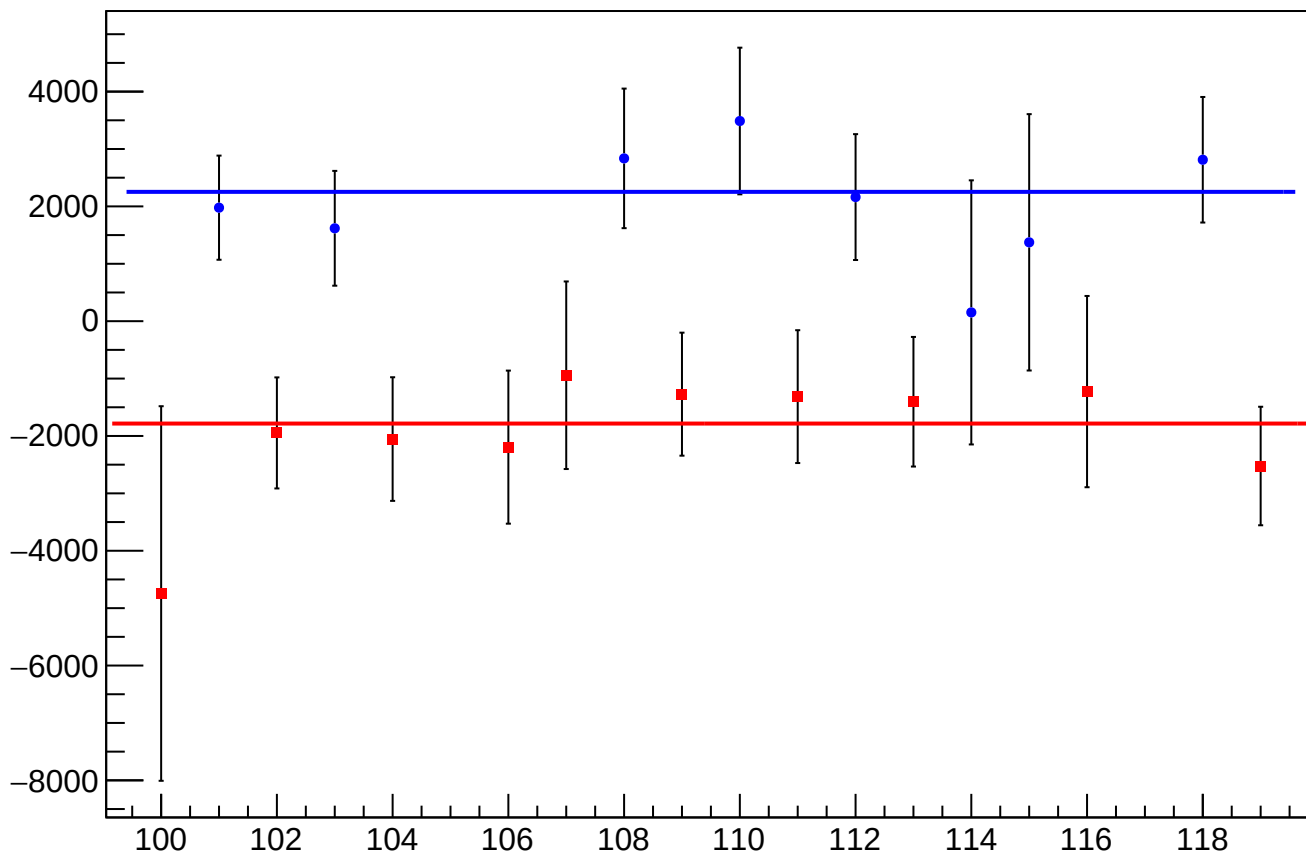
+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 1150.725+/-0.306     $\chi^2/\text{NDF}$ : 688367.0/17

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



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



Right In: 2253.205 $\pm$ 424.083  $\chi^2$ /NDF: 2.9/7

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

Right Out: -1783.753 $\pm$ 387.448  $\chi^2$ /NDF: 2.4/9

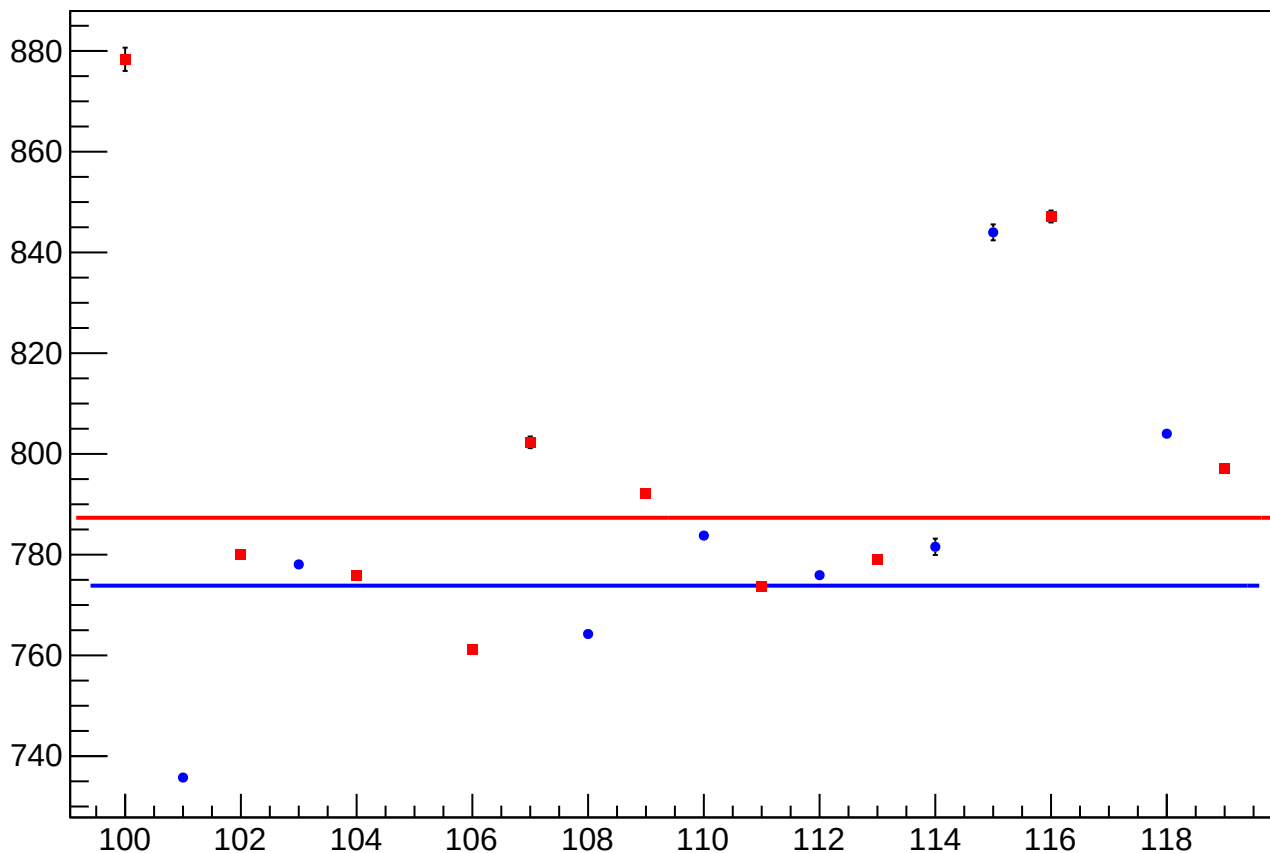
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 52.853 $\pm$ 286.043  $\chi^2$ /NDF: 54.7/17

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

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



Right In: 773.845 $\pm$ 0.300  $\chi^2$ /NDF: 7331.2/7

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

Right Out: 787.325 $\pm$ 0.274  $\chi^2$ /NDF: 6012.6/9

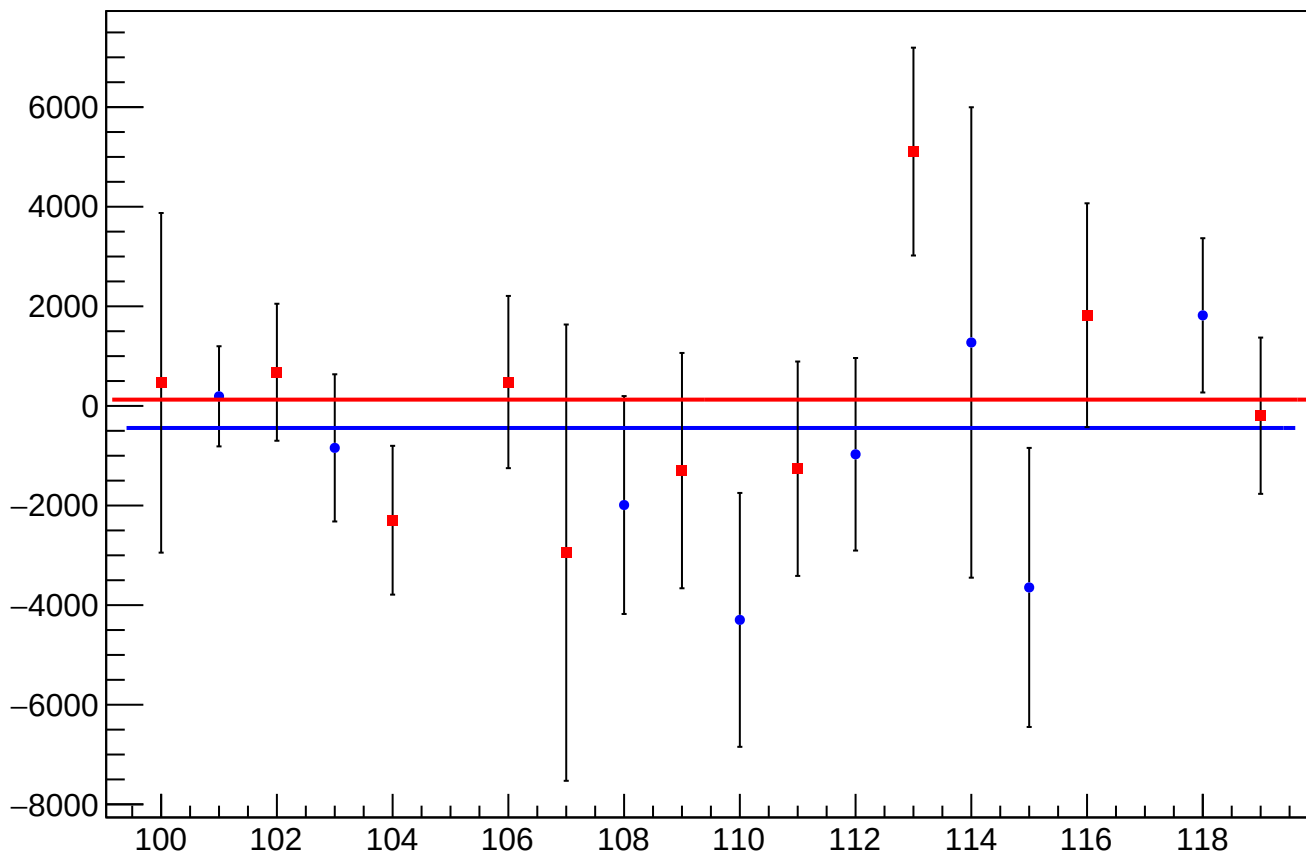
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 781.192 $\pm$ 0.202  $\chi^2$ /NDF: 14445.1/17

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

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



Right In: -442.753+/-612.404  $\chi^2/\text{NDF}$ : 6.9/7

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

Right Out: 126.499+/-611.591  $\chi^2/\text{NDF}$ : 10.4/9

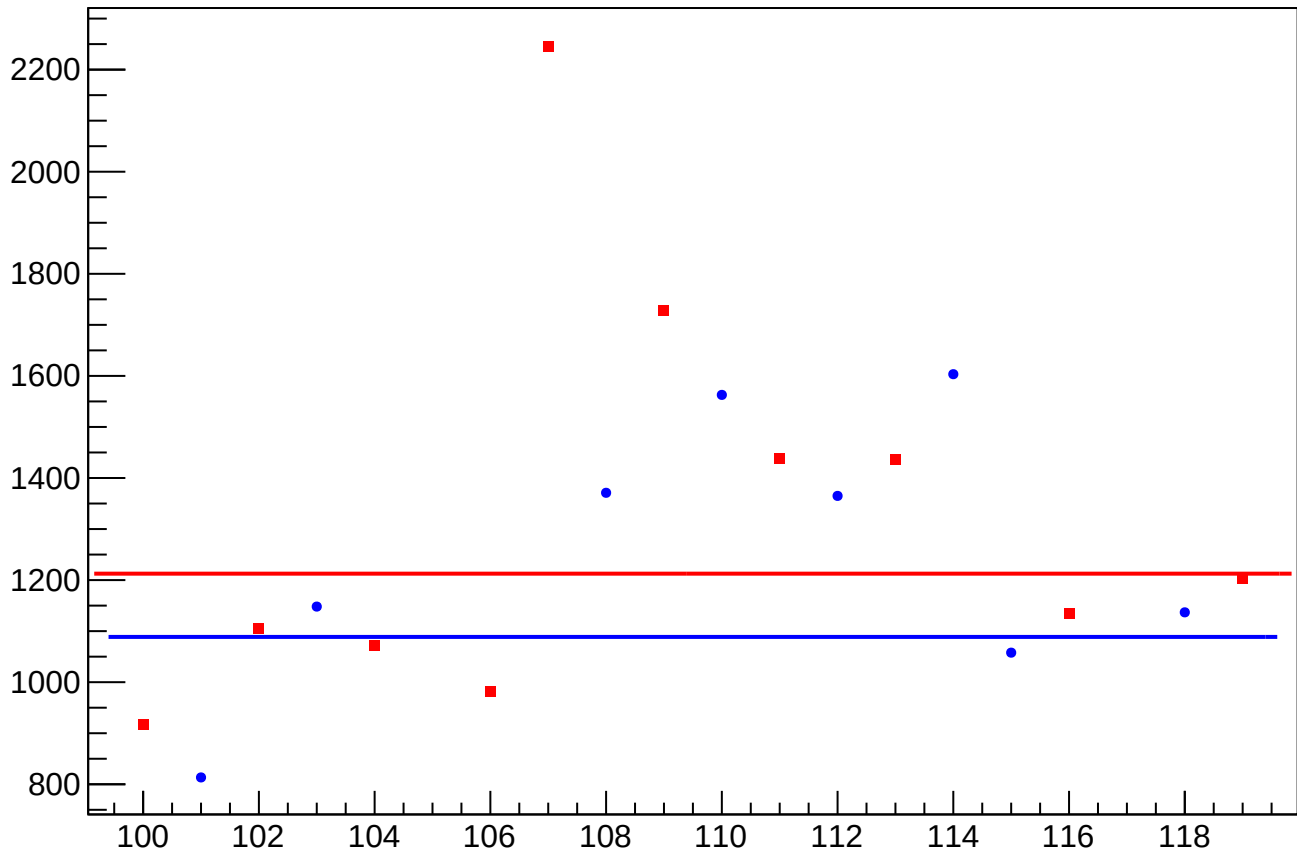
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -157.749+/-432.747  $\chi^2/\text{NDF}$ : 17.7/17

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

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



Right In: 1088.681+/-0.433  $\chi^2/\text{NDF}$ : 322399.0/7

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

Right Out: 1212.598+/-0.432  $\chi^2/\text{NDF}$ : 324965.8/9

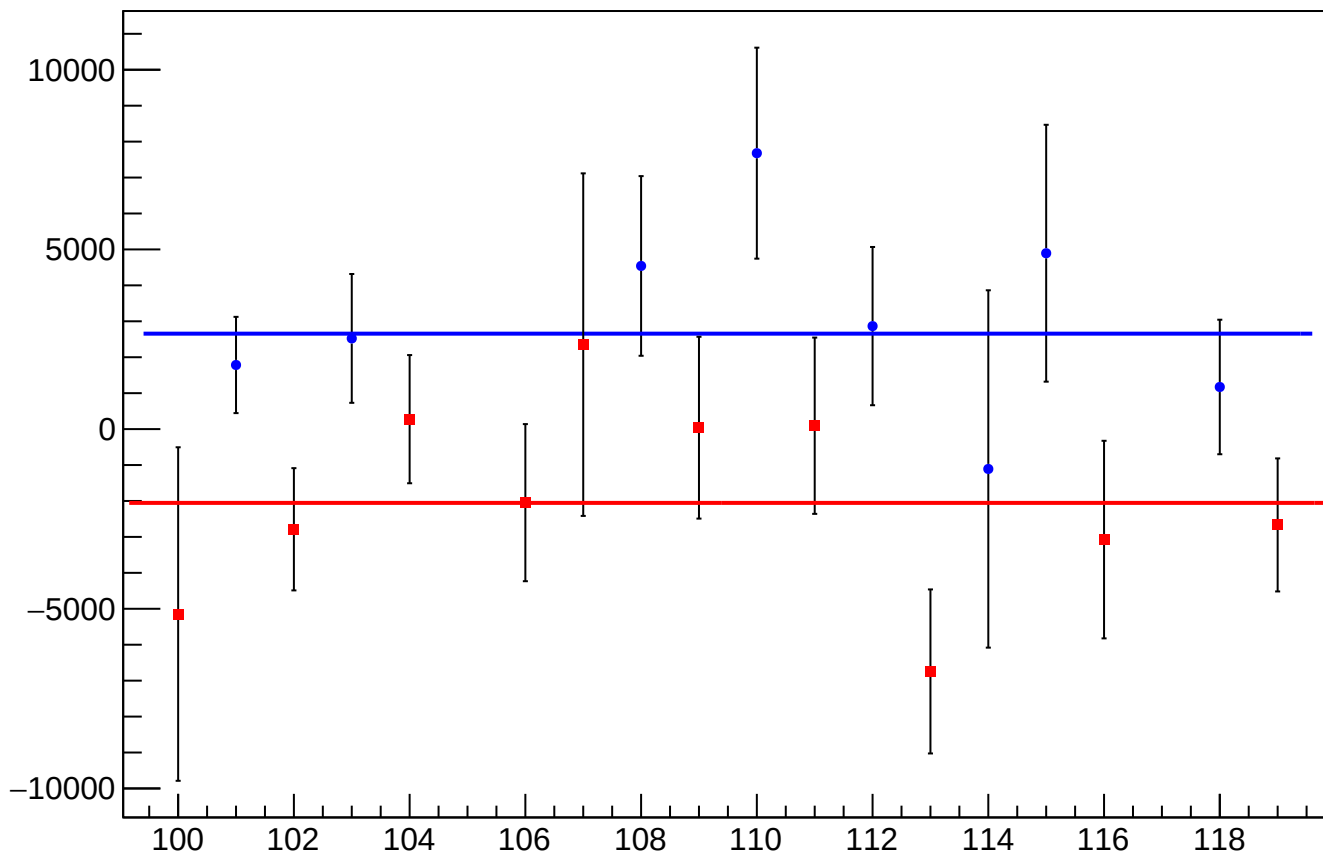
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1150.722+/-0.306  $\chi^2/\text{NDF}$ : 688362.9/17

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

# asym\_us\_avg\_mean vs Slug



Right In: 2655.939+/-754.800  $\chi^2/\text{NDF}$ : 5.5/7

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

Right Out: -2053.457+/-725.822  $\chi^2/\text{NDF}$ : 9.1/9

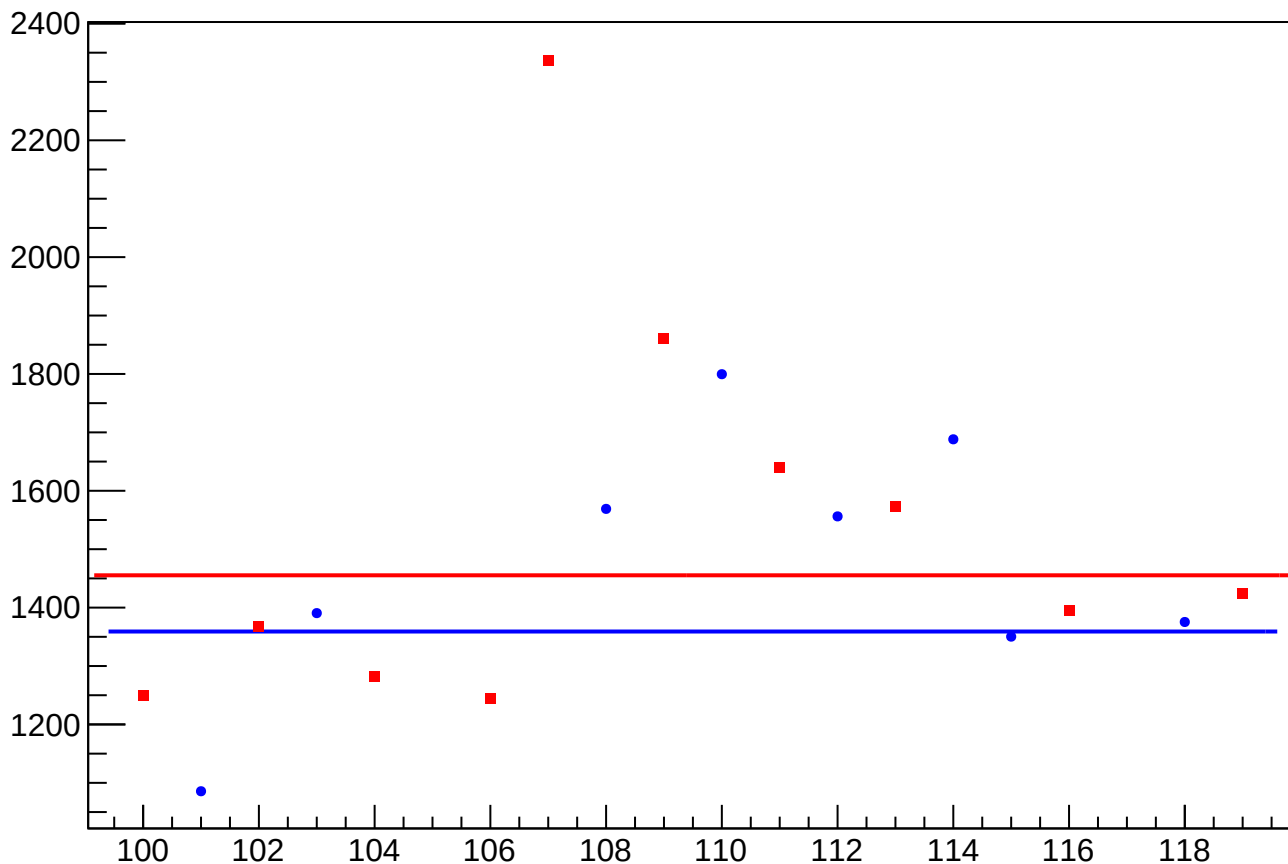
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 209.107+/-523.178  $\chi^2/\text{NDF}$ : 34.9/17

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

# asym\_us\_avg\_rms vs Slug



Right In: 1359.075+/-0.534  $\chi^2/\text{NDF}$ : 168087.3/7

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

Right Out: 1455.317+/-0.513  $\chi^2/\text{NDF}$ : 184501.1/9

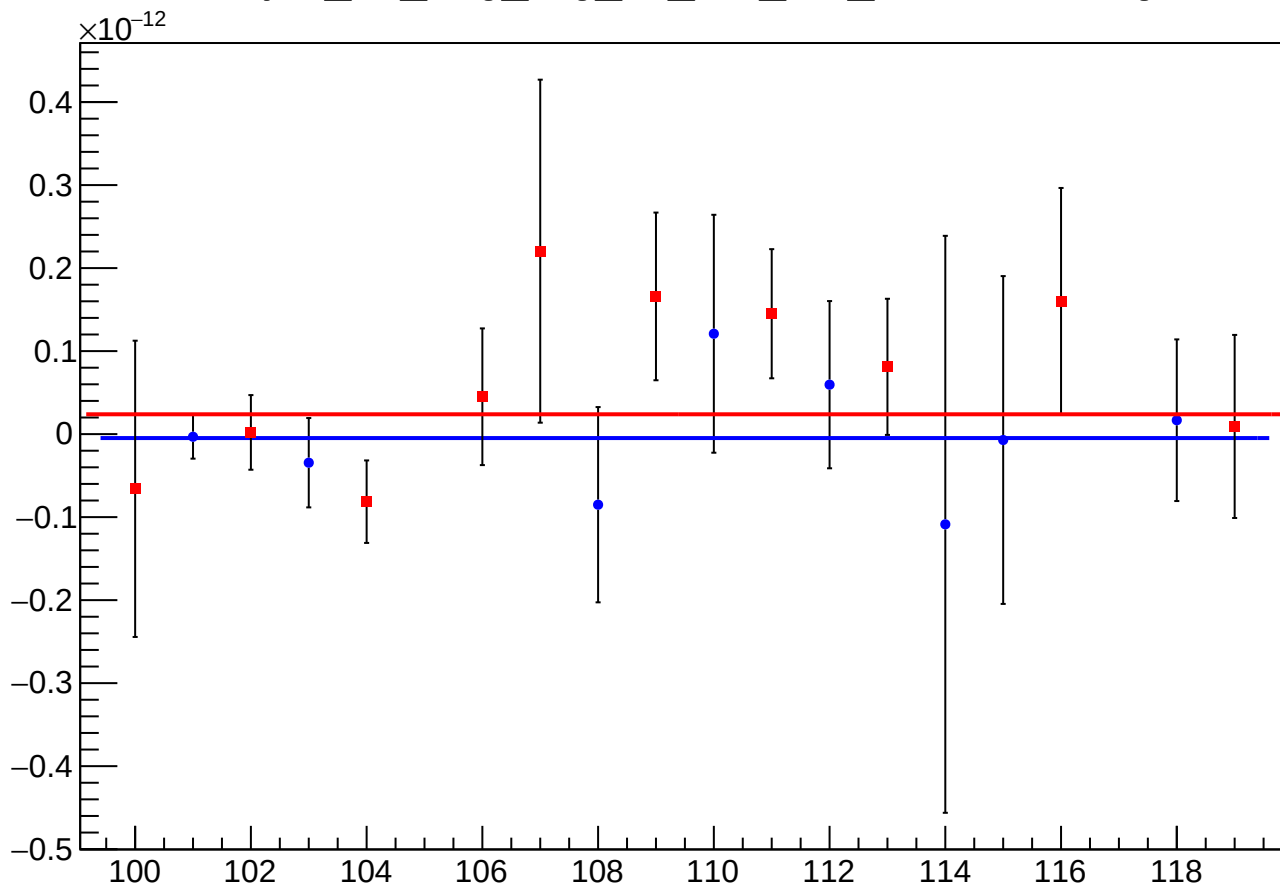
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1409.079+/-0.370  $\chi^2/\text{NDF}$ : 369482.4/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 2.1/7

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.8/9

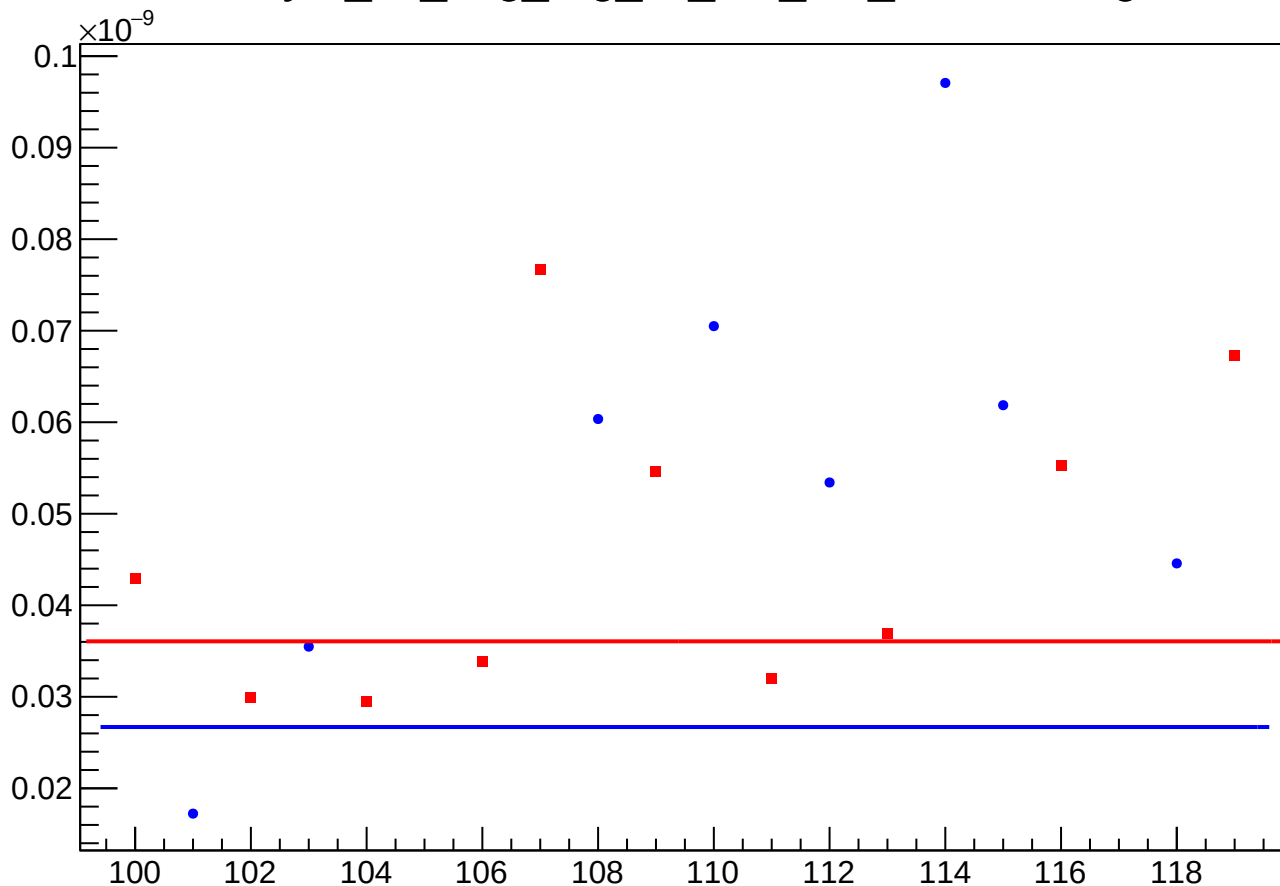
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.7/17

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

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



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1014810.7/7

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 426644.3/9

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

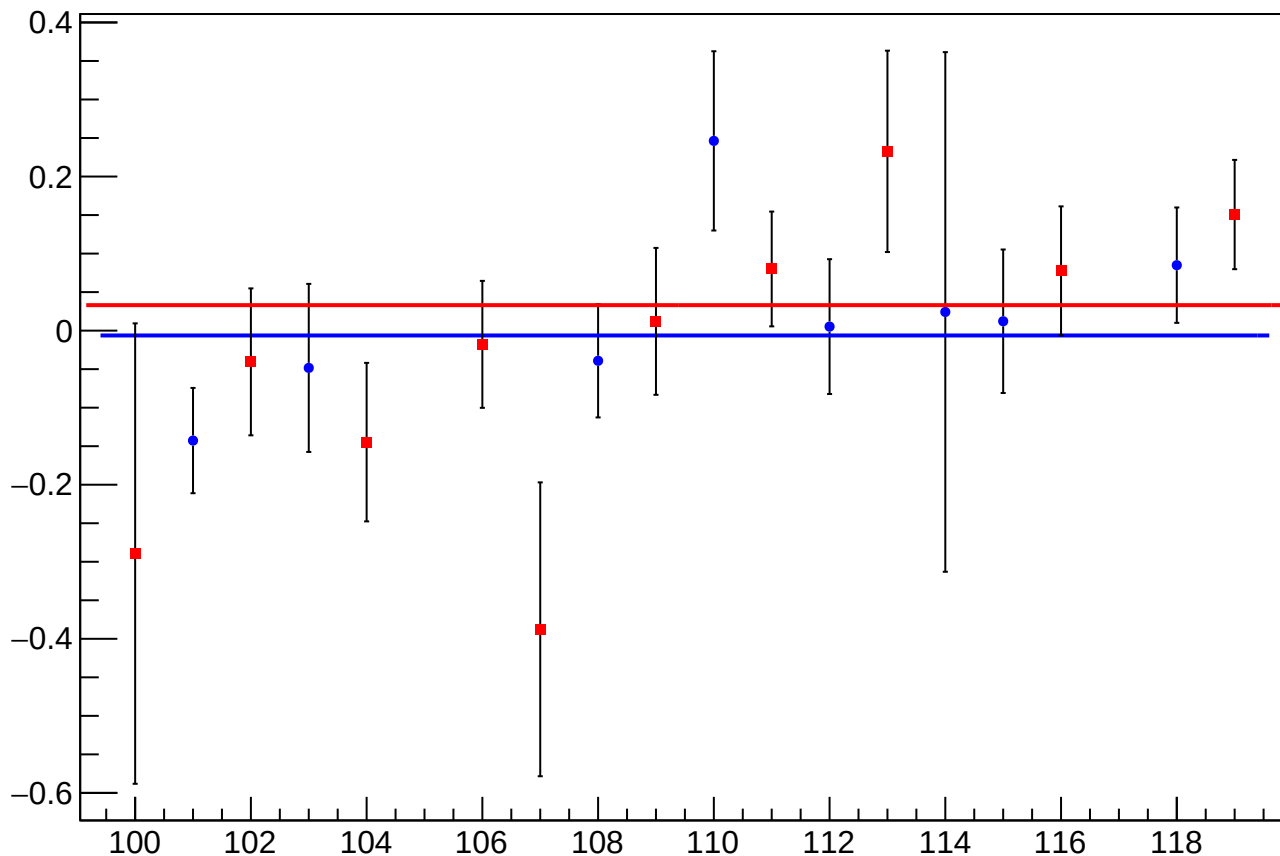
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1604803.0/17

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



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



Right In: -0.006+/-0.032  $\chi^2/\text{NDF}$ : 10.6/7

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

Right Out: 0.033+/-0.030  $\chi^2/\text{NDF}$ : 15.8/9

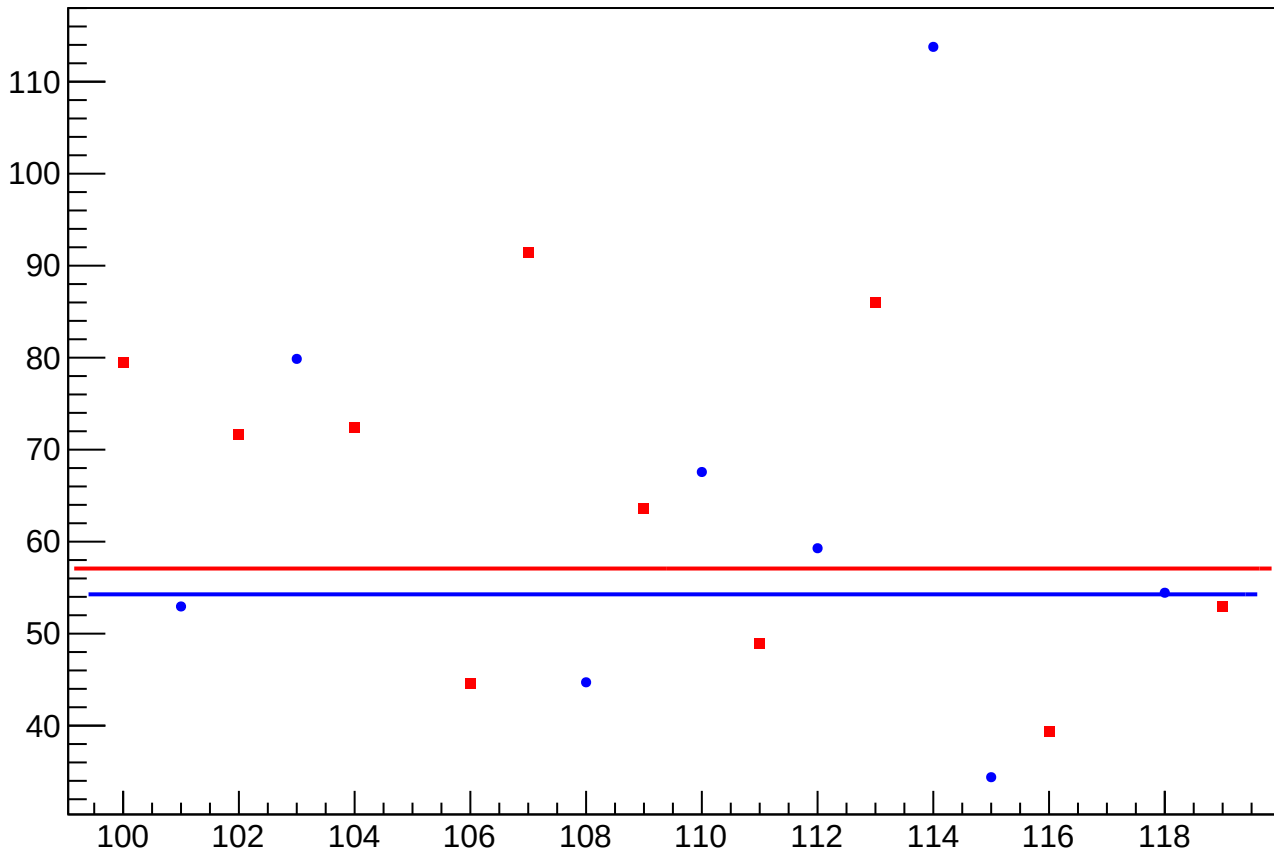
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.014+/-0.022  $\chi^2/\text{NDF}$ : 27.2/17

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

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



Right In: 54.273 $\pm$ 0.022  $\chi^2$ /NDF: 330814.5/7

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

Right Out: 57.079 $\pm$ 0.022  $\chi^2$ /NDF: 440777.2/9

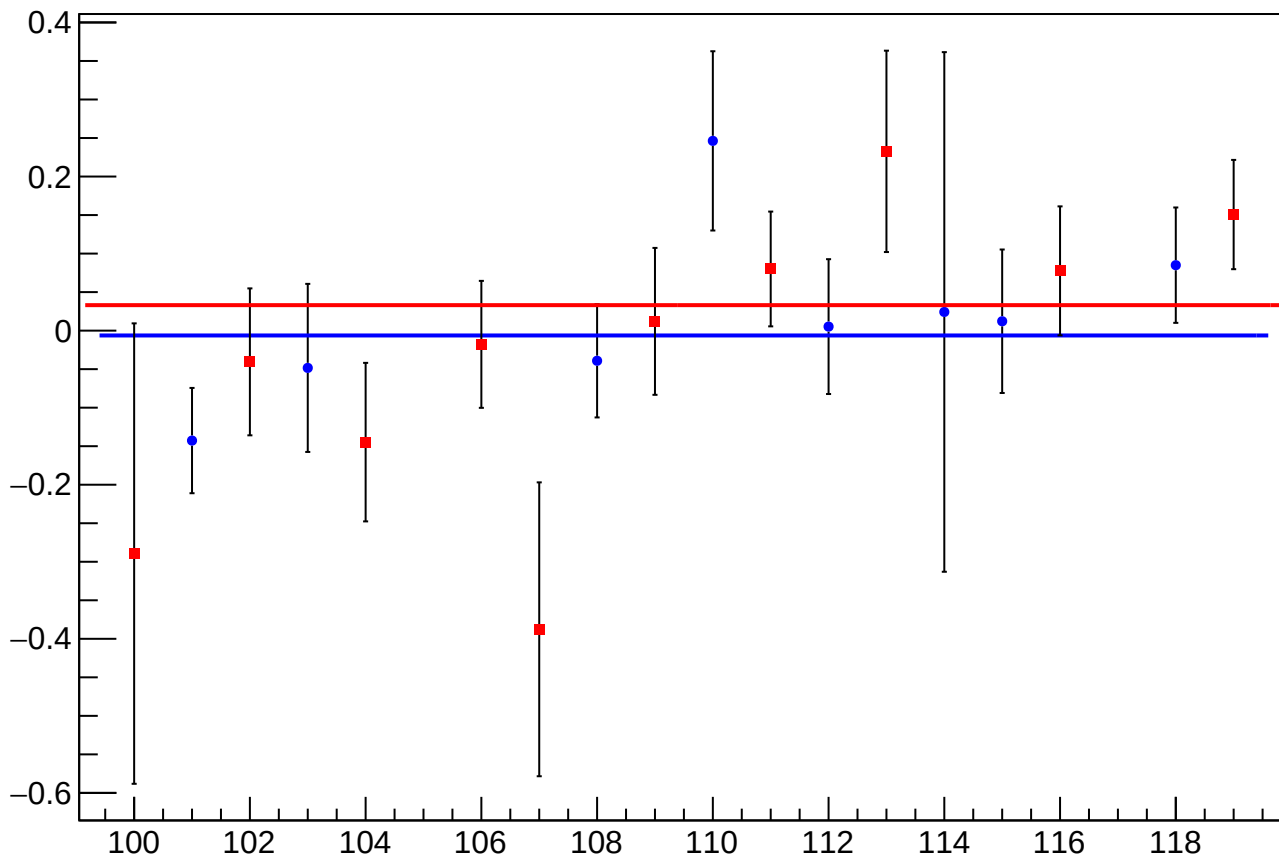
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 55.737 $\pm$ 0.016  $\chi^2$ /NDF: 779728.2/17

- 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: -0.006 $\pm$ 0.032  $\chi^2$ /NDF: 10.6/7

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

Right Out: 0.033 $\pm$ 0.030  $\chi^2$ /NDF: 15.8/9

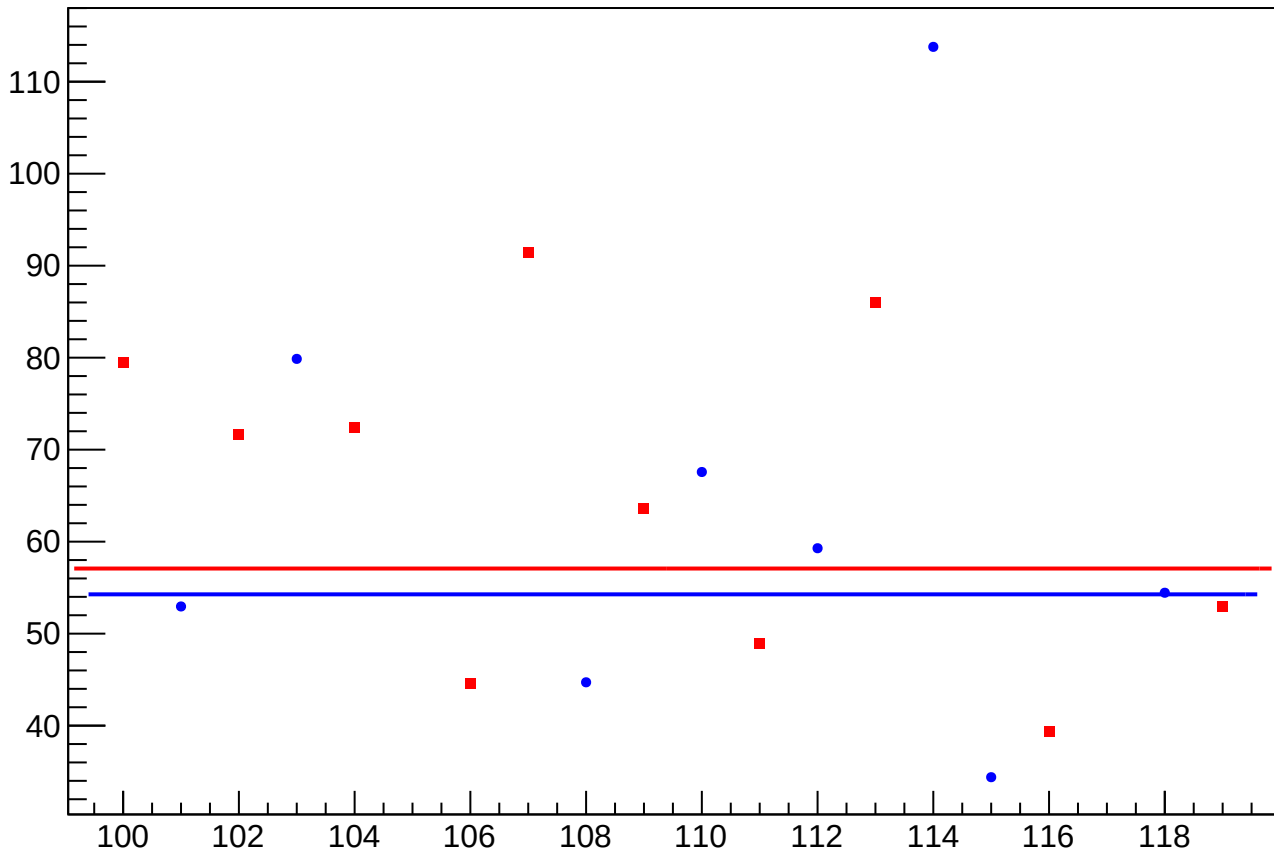
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 0.014 $\pm$ 0.022  $\chi^2$ /NDF: 27.2/17

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

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



Right In: 54.273+/-0.022  $\chi^2/\text{NDF}$ : 330814.5/7

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

Right Out: 57.079+/-0.022  $\chi^2/\text{NDF}$ : 440777.2/9

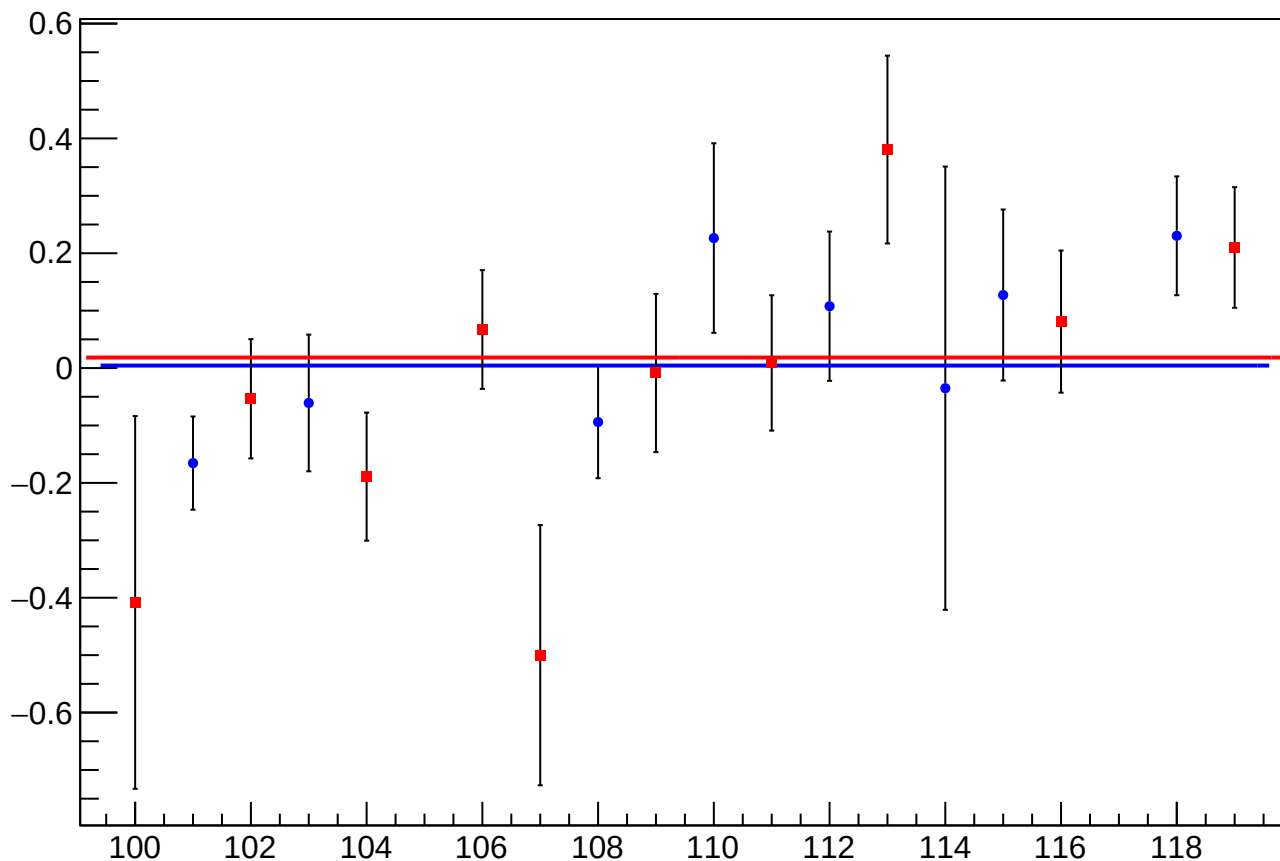
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 55.737+/-0.016  $\chi^2/\text{NDF}$ : 779728.2/17

- 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: 0.004+/-0.042  $\chi^2/\text{NDF}$ : 13.6/7

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

Right Out: 0.018+/-0.040  $\chi^2/\text{NDF}$ : 19.7/9

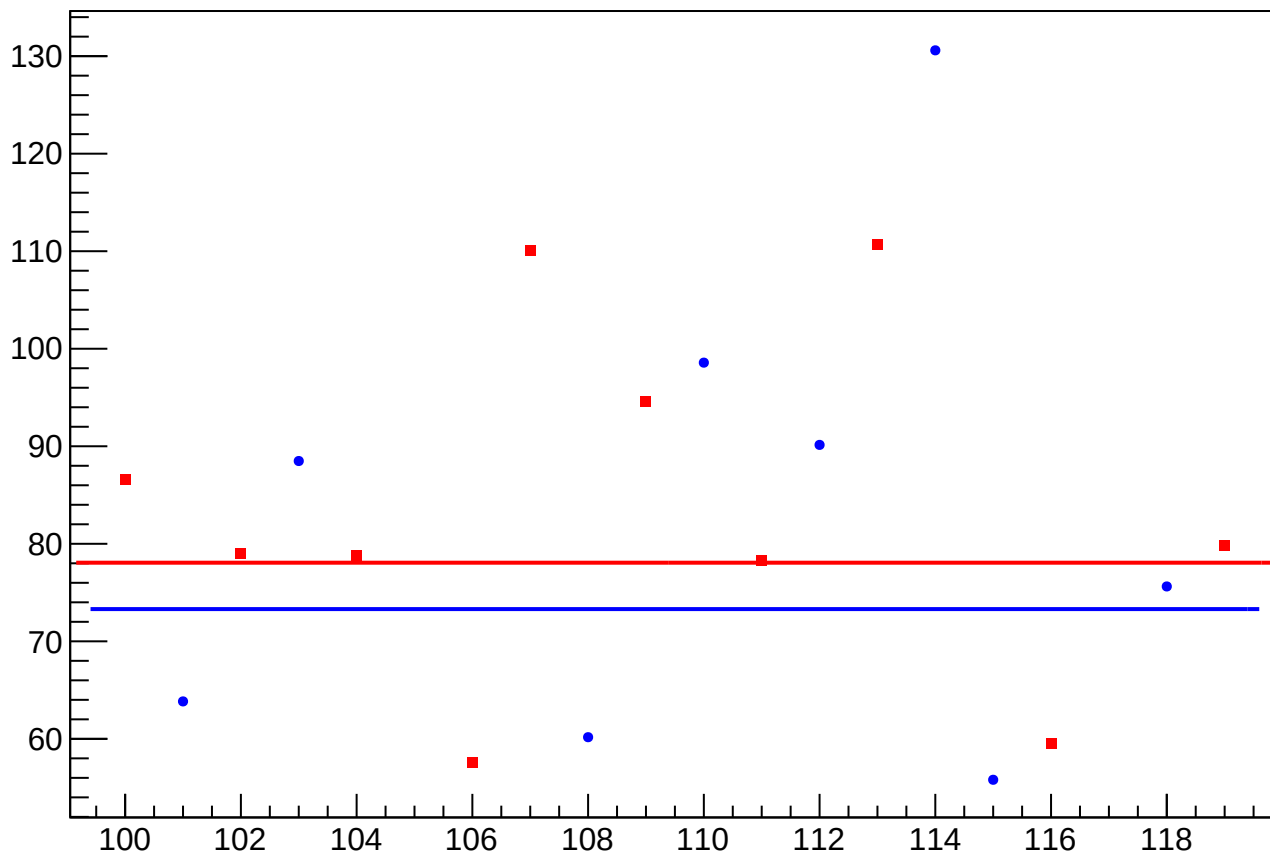
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.012+/-0.029  $\chi^2/\text{NDF}$ : 33.3/17

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

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



Right In: 73.306 $\pm$ 0.030  $\chi^2$ /NDF: 248851.6/7

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

Right Out: 78.062 $\pm$ 0.029  $\chi^2$ /NDF: 273669.5/9

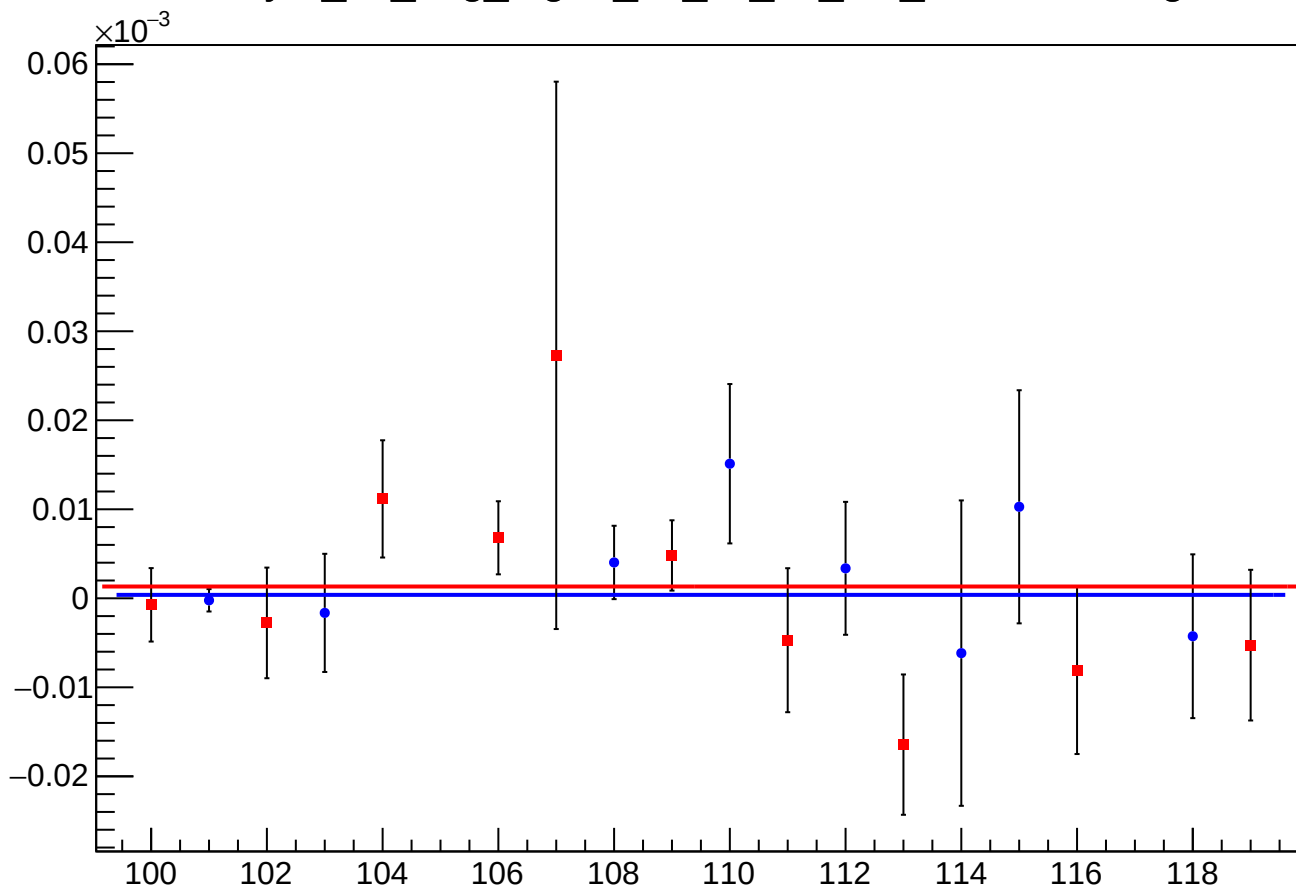
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 75.776 $\pm$ 0.021  $\chi^2$ /NDF: 535860.9/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 4.9/7

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.4/9

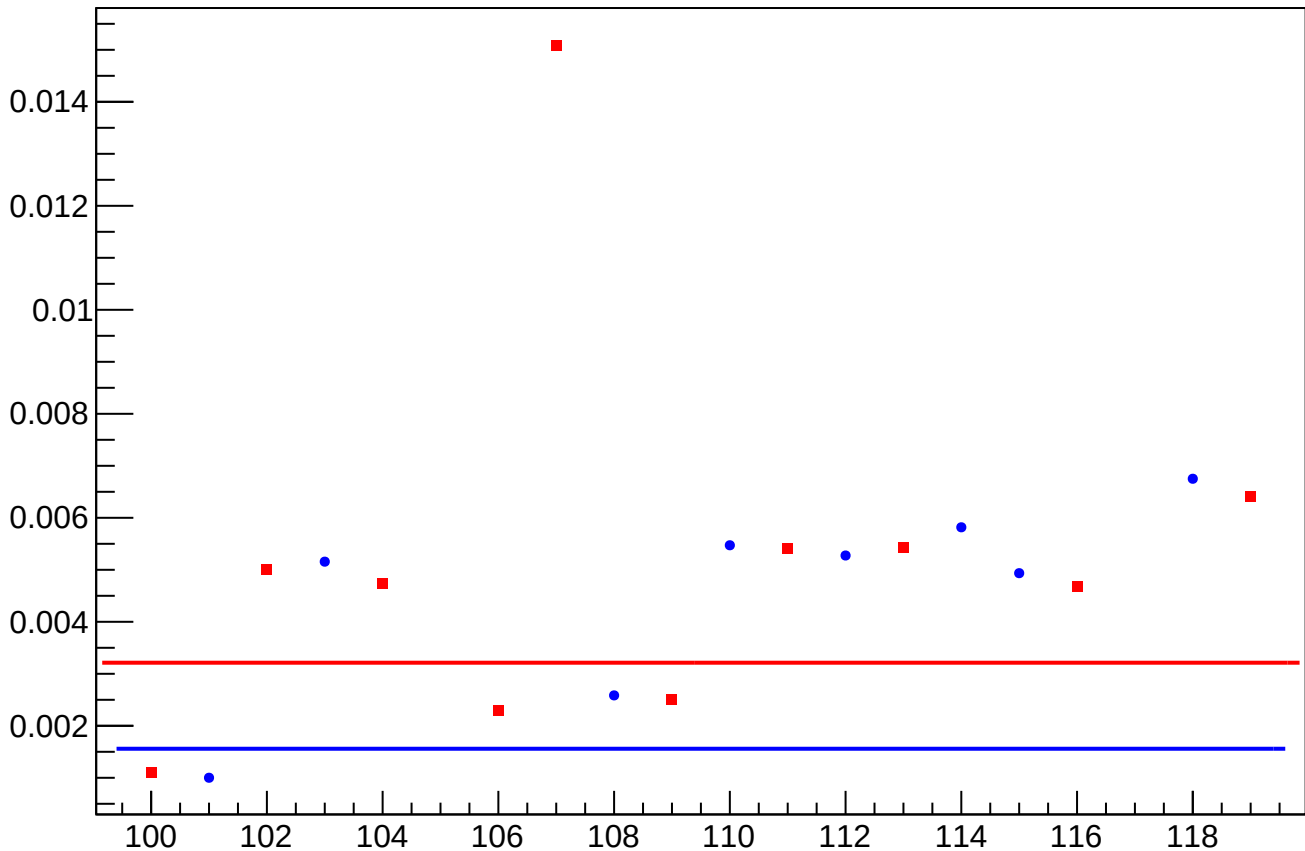
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.6/17

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

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



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2876319.7/7

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

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1894091.9/9

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

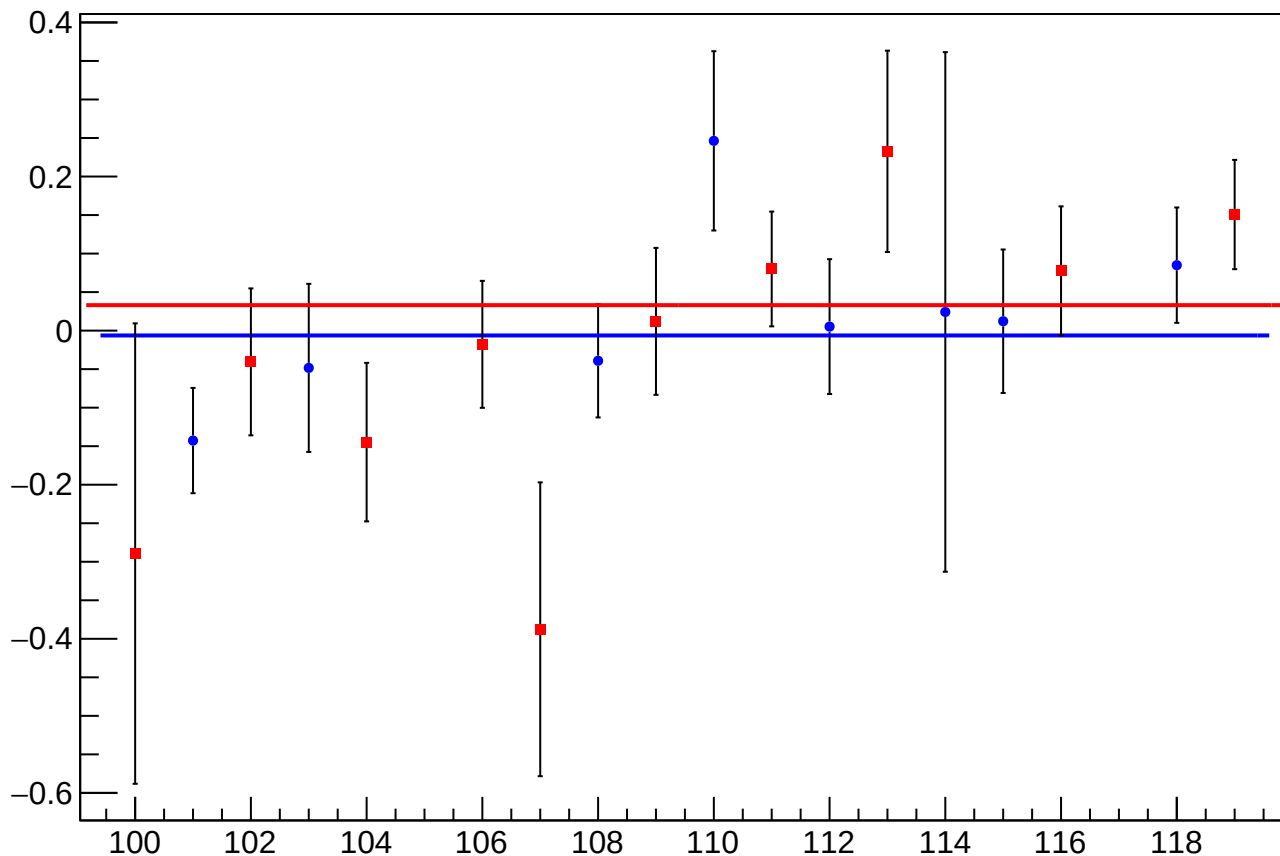
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 5918793.5/17

- 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: -0.006 $\pm$ 0.032  $\chi^2$ /NDF: 10.6/7

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

Right Out: 0.033 $\pm$ 0.030  $\chi^2$ /NDF: 15.8/9

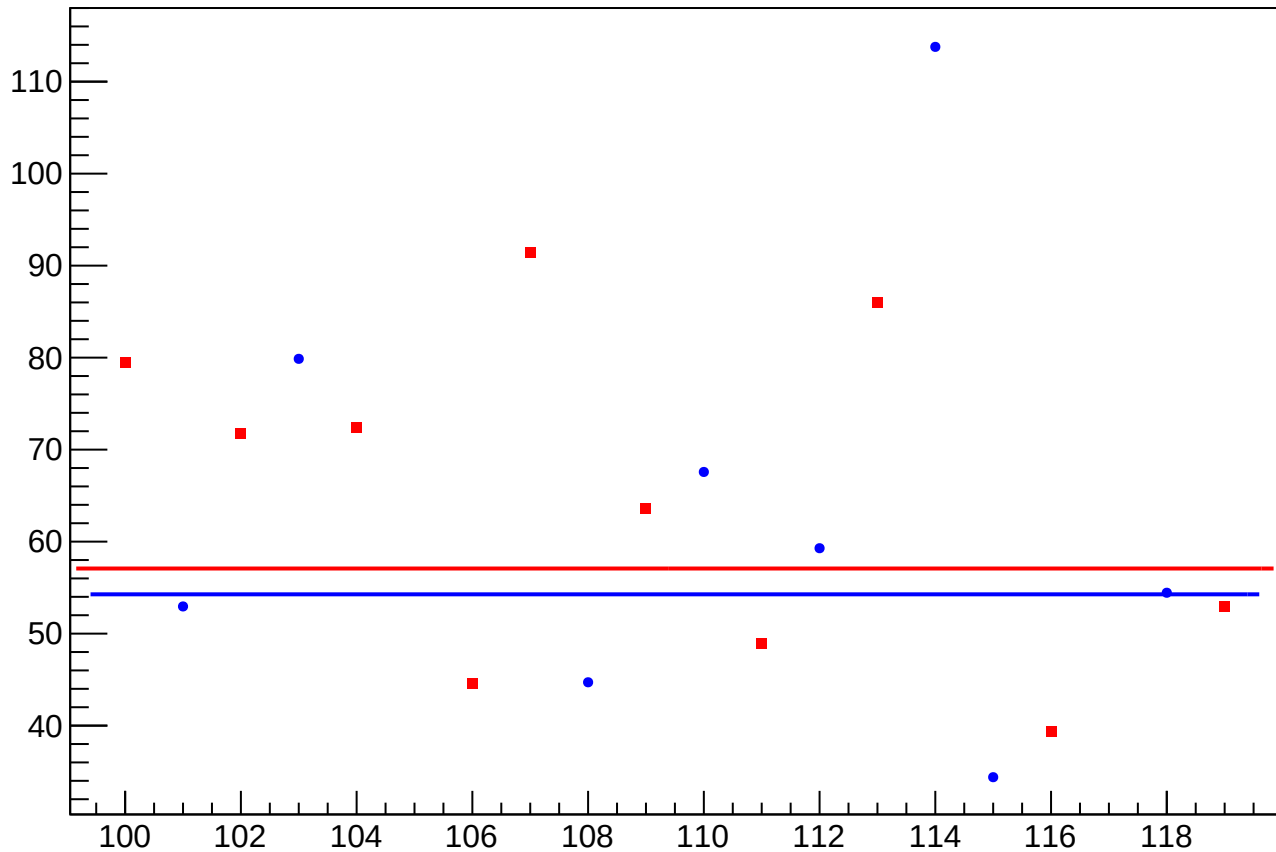
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 0.014 $\pm$ 0.022  $\chi^2$ /NDF: 27.2/17

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

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



Right In: 54.272 $\pm$ 0.022  $\chi^2$ /NDF: 330841.4/7

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

Right Out: 57.077 $\pm$ 0.022  $\chi^2$ /NDF: 440785.4/9

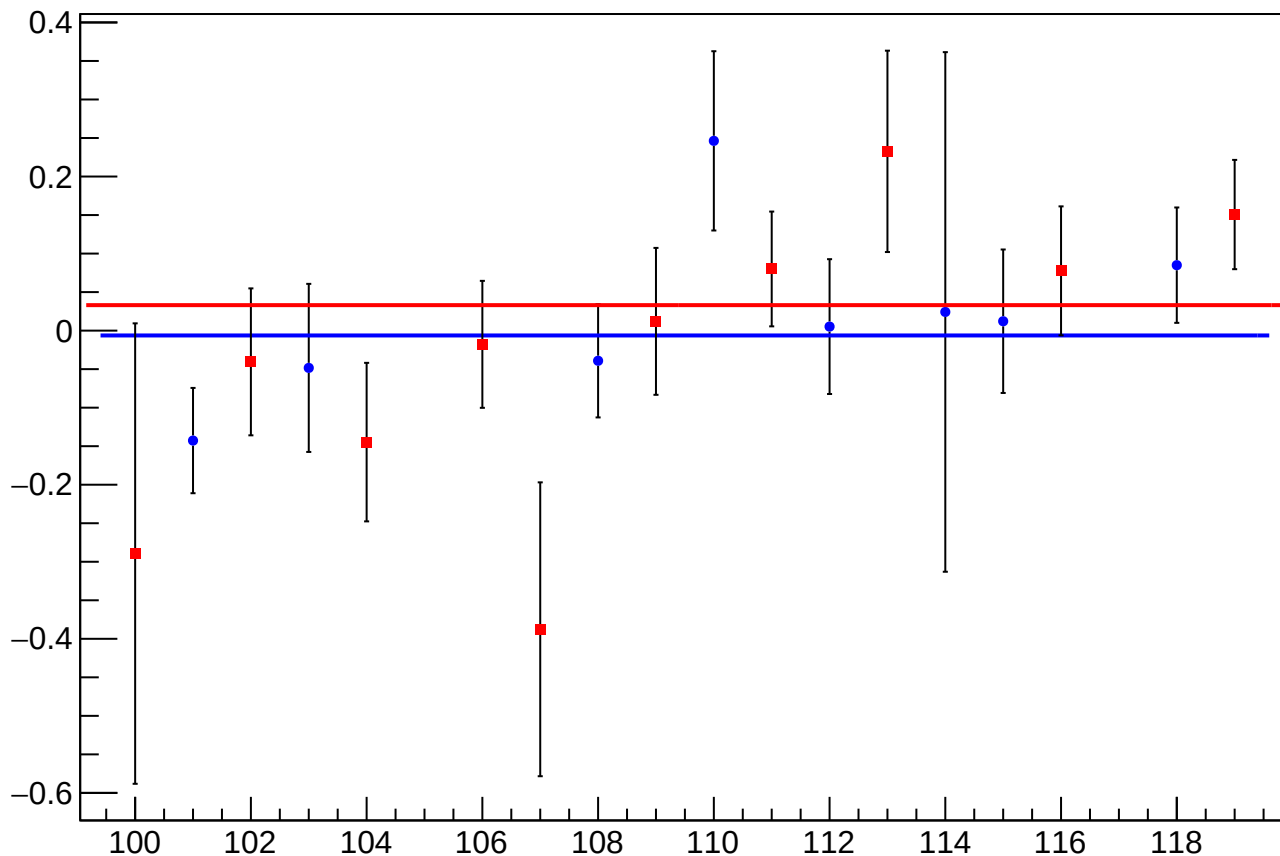
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 55.736 $\pm$ 0.016  $\chi^2$ /NDF: 779762.1/17

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

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



Right In: -0.006+/-0.032  $\chi^2/\text{NDF}$ : 10.6/7

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

Right Out: 0.033+/-0.030  $\chi^2/\text{NDF}$ : 15.8/9

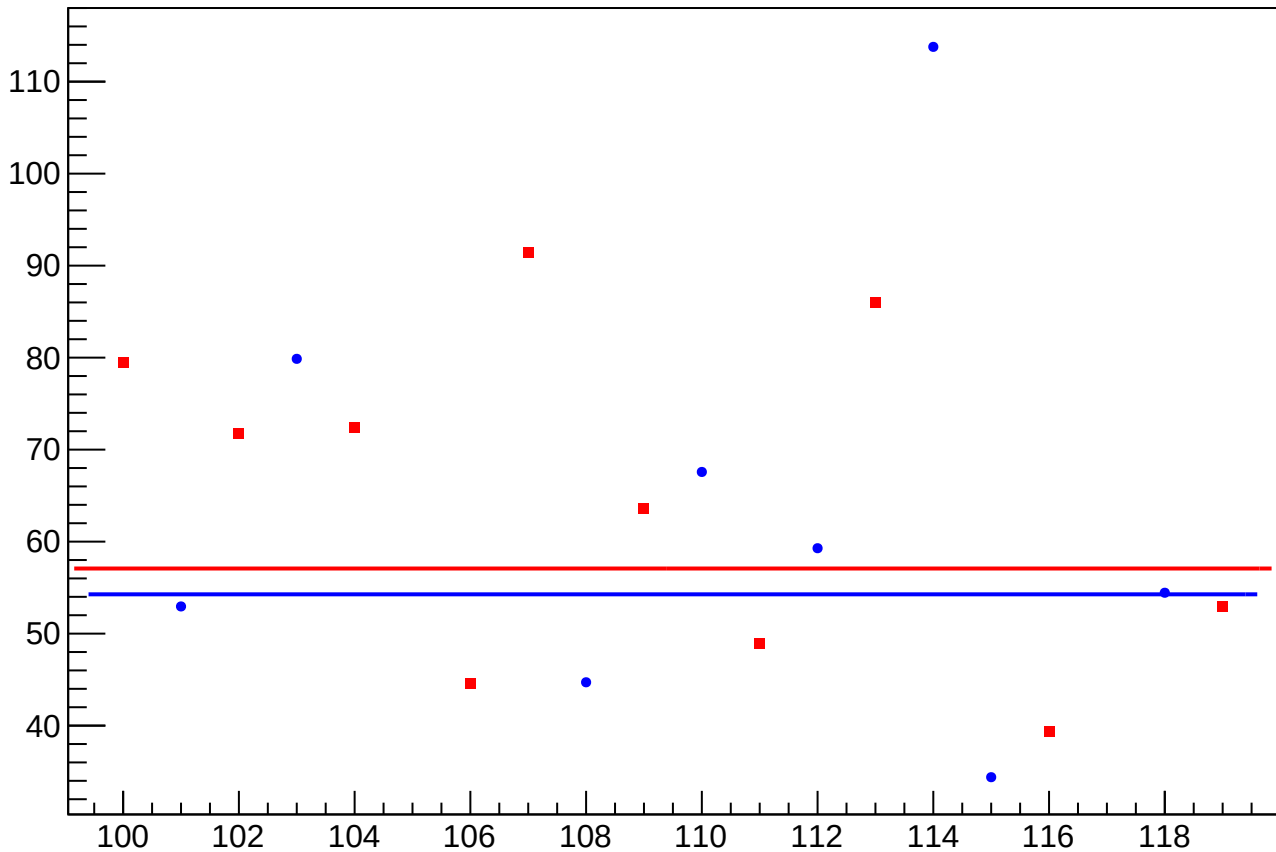
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.014+/-0.022  $\chi^2/\text{NDF}$ : 27.2/17

- 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: 54.272 $\pm$ 0.022  $\chi^2$ /NDF: 330841.4/7

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

Right Out: 57.077 $\pm$ 0.022  $\chi^2$ /NDF: 440785.4/9

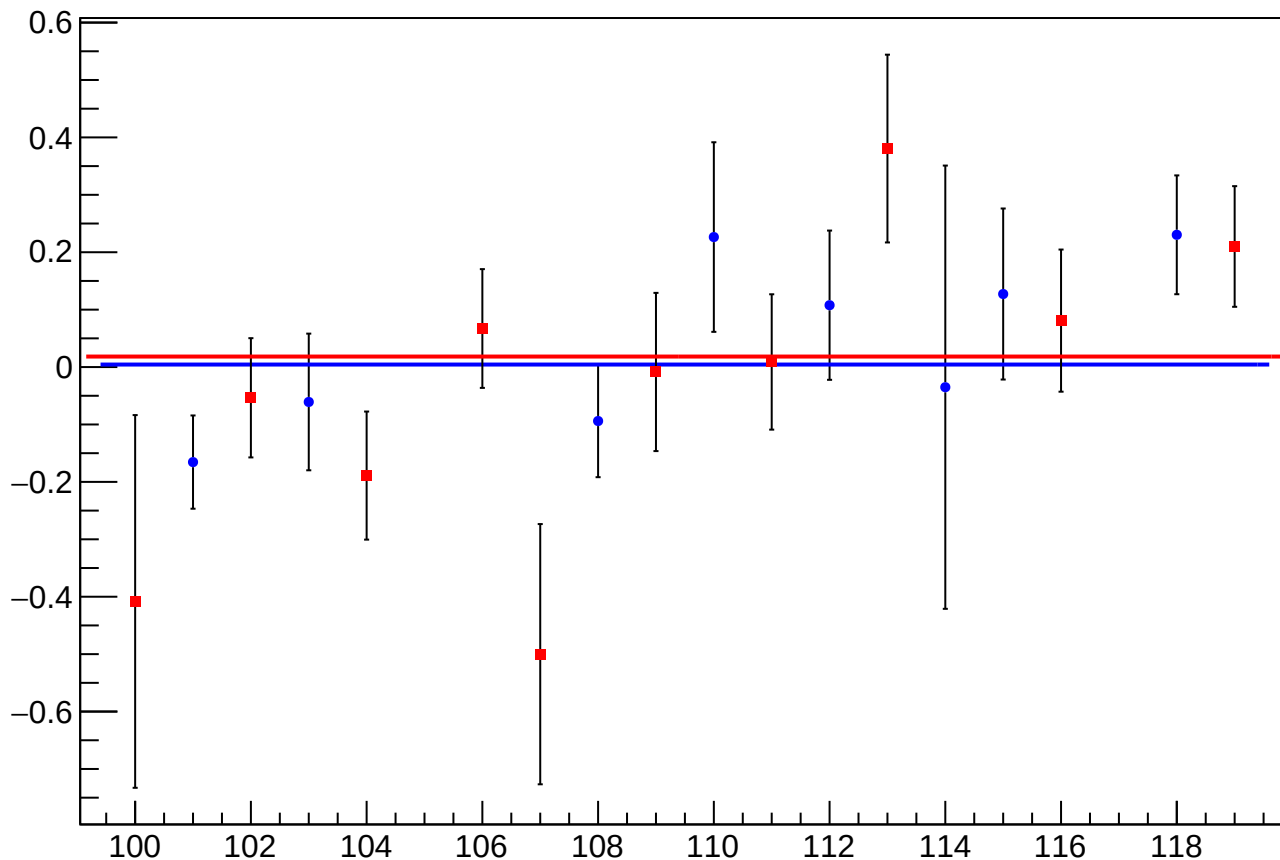
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 55.736 $\pm$ 0.016  $\chi^2$ /NDF: 779762.1/17

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

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



Right In: 0.004+/-0.042  $\chi^2/\text{NDF}$ : 13.6/7

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

Right Out: 0.018+/-0.040  $\chi^2/\text{NDF}$ : 19.7/9

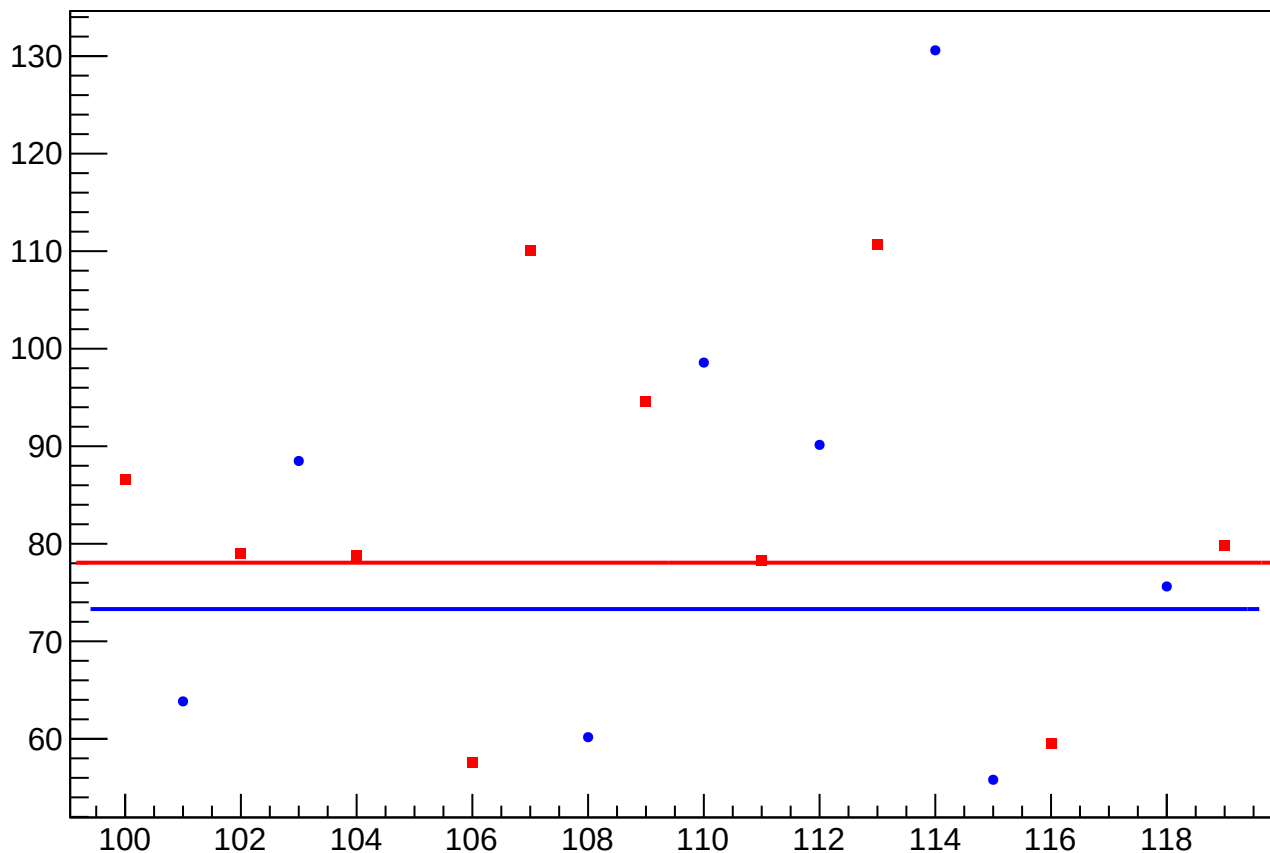
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.012+/-0.029  $\chi^2/\text{NDF}$ : 33.3/17

- 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: 73.305+/-0.030  $\chi^2/\text{NDF}$ : 248854.1/7

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

Right Out: 78.061+/-0.029  $\chi^2/\text{NDF}$ : 273662.1/9

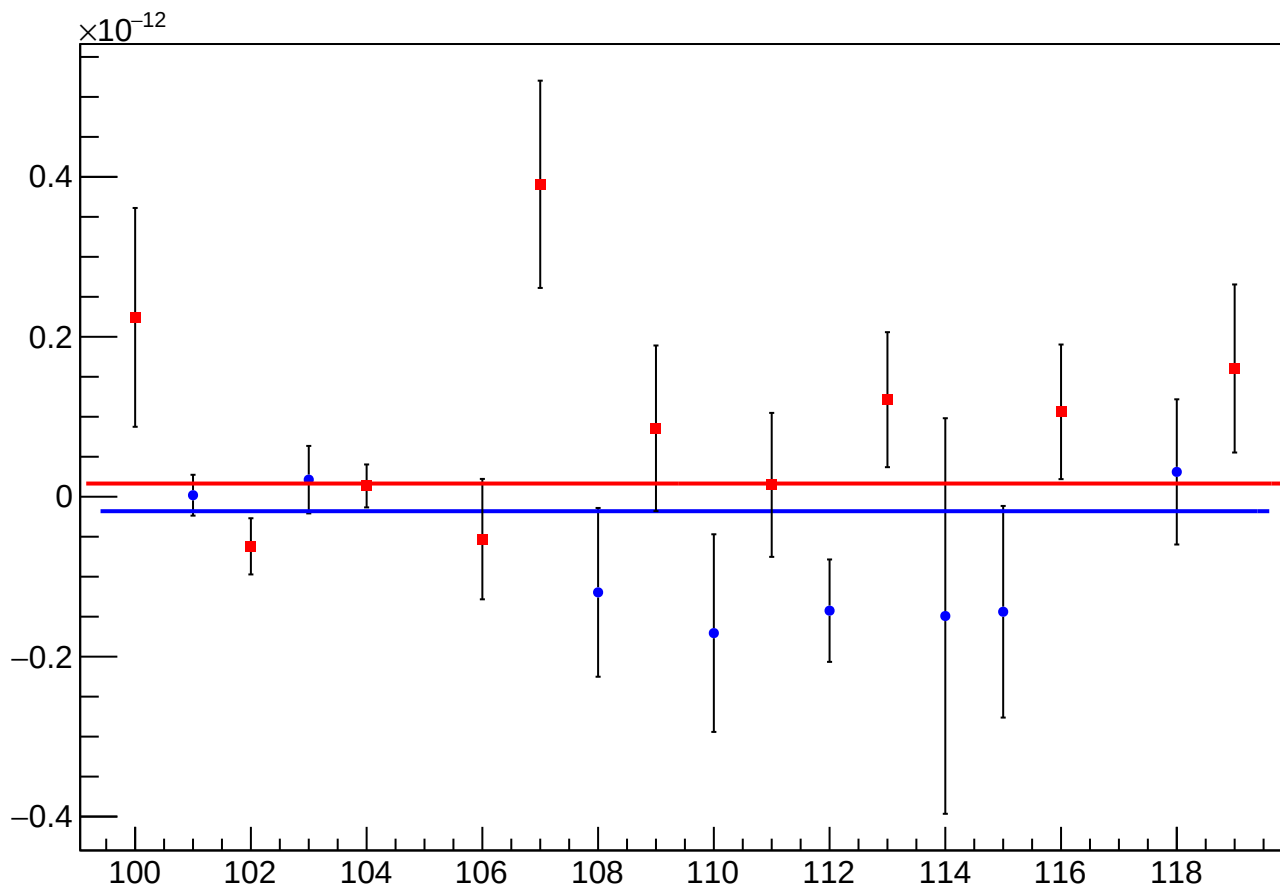
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 75.775+/-0.021  $\chi^2/\text{NDF}$ : 535854.5/17

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

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



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.2/7

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 21.5/9

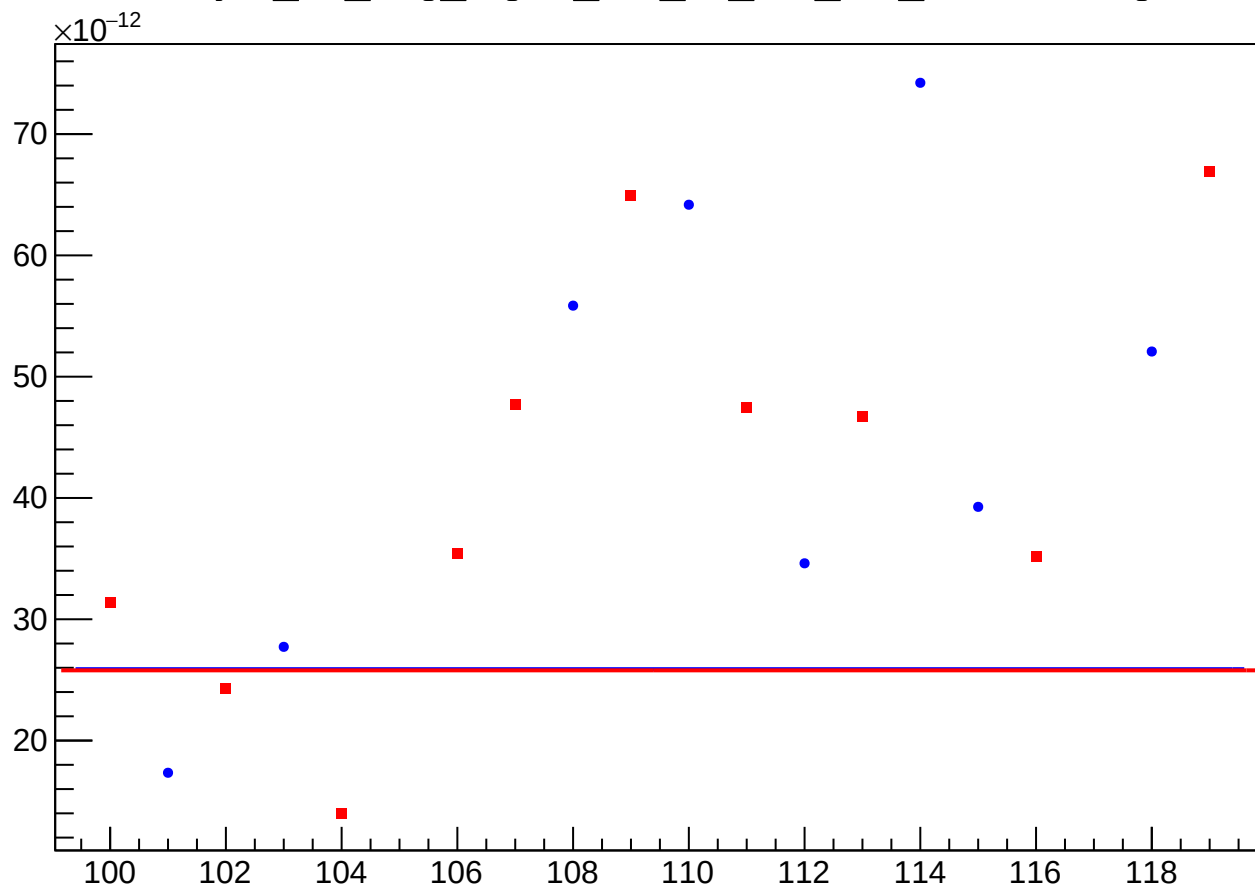
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 32.4/17

- 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  $\chi^2/\text{NDF}$ : 881101.6/7

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1339277.5/9

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

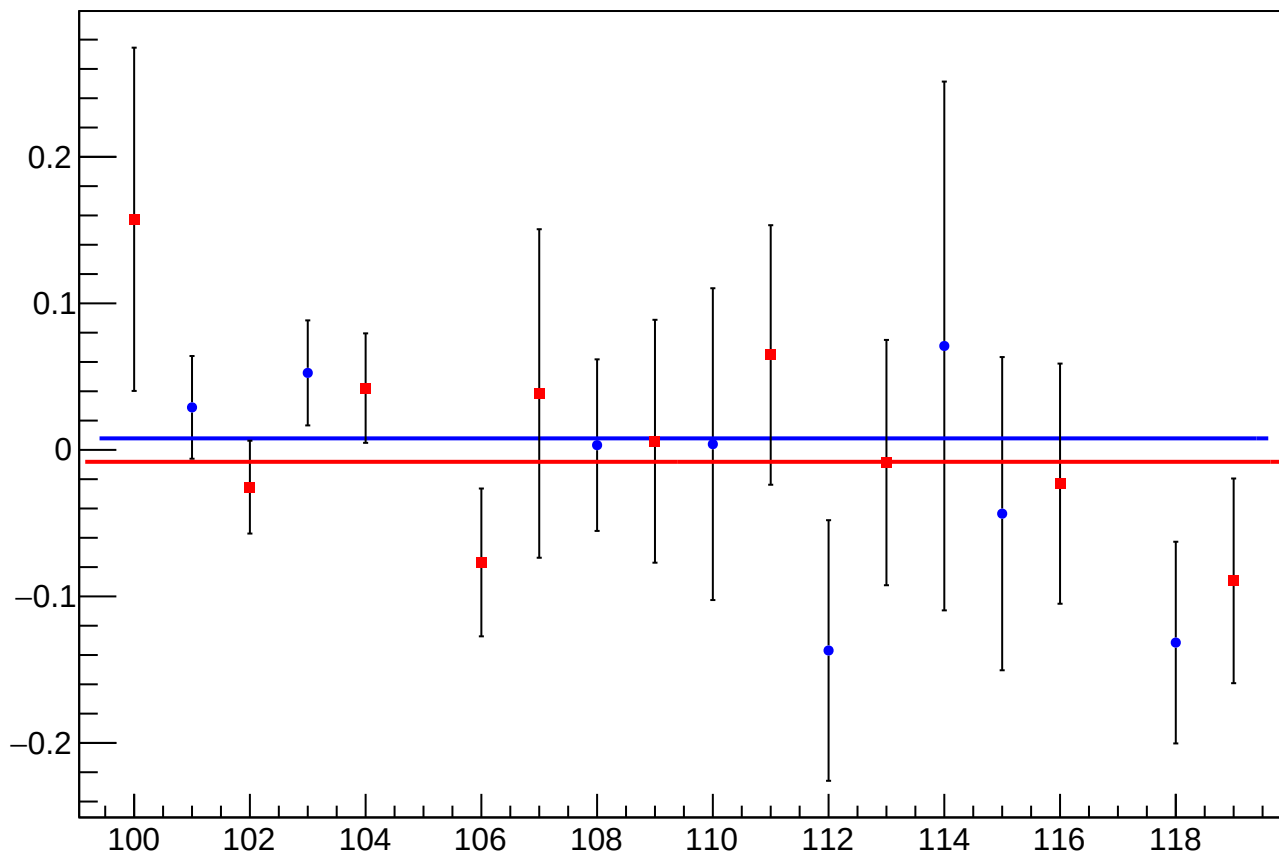
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2220406.2/17

- 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: 0.008 $\pm$ 0.020  $\chi^2$ /NDF: 9.0/7

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

Right Out: -0.008 $\pm$ 0.018  $\chi^2$ /NDF: 8.2/9

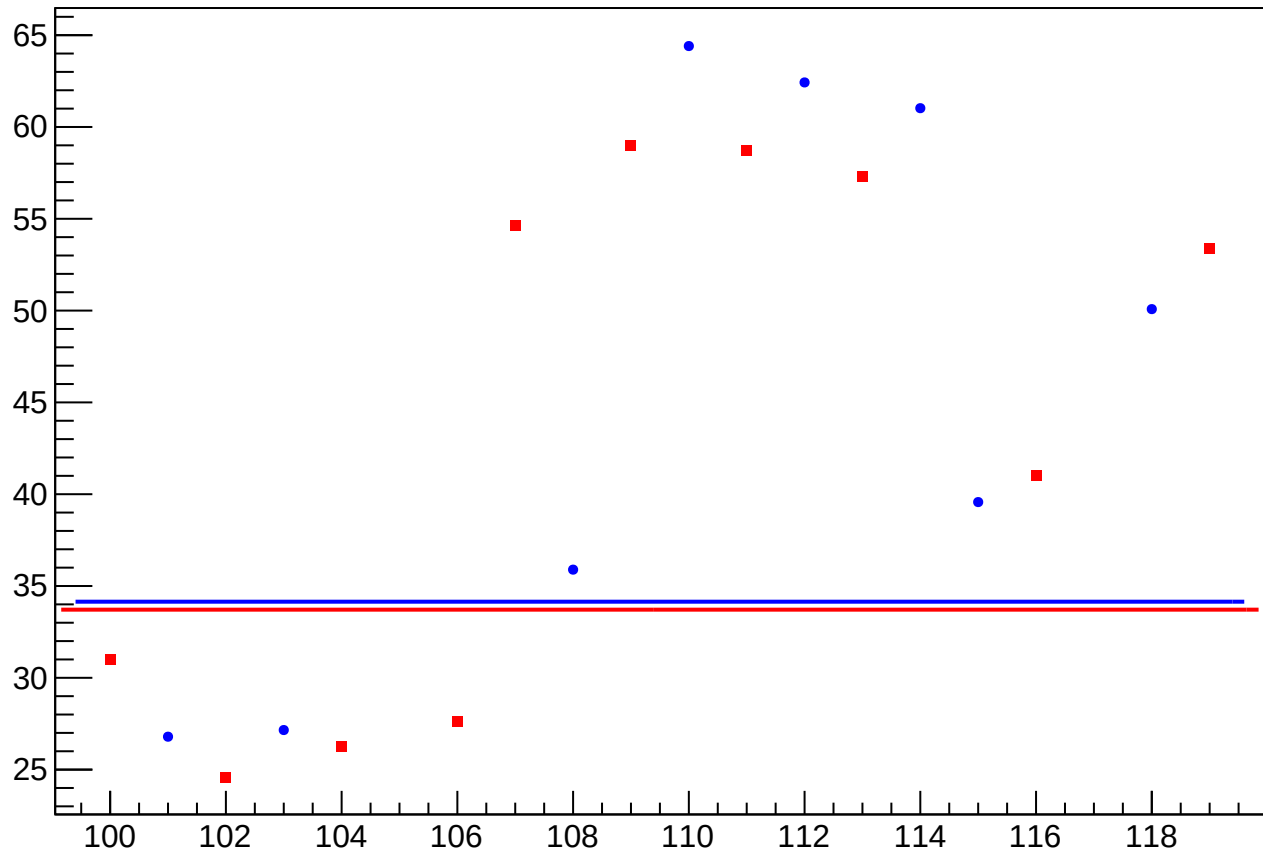
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.001 $\pm$ 0.014  $\chi^2$ /NDF: 17.6/17

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

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



Right In: 34.146 $\pm$ 0.014  $\chi^2$ /NDF: 686565.8/7

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

Right Out: 33.712 $\pm$ 0.013  $\chi^2$ /NDF: 1024617.4/9

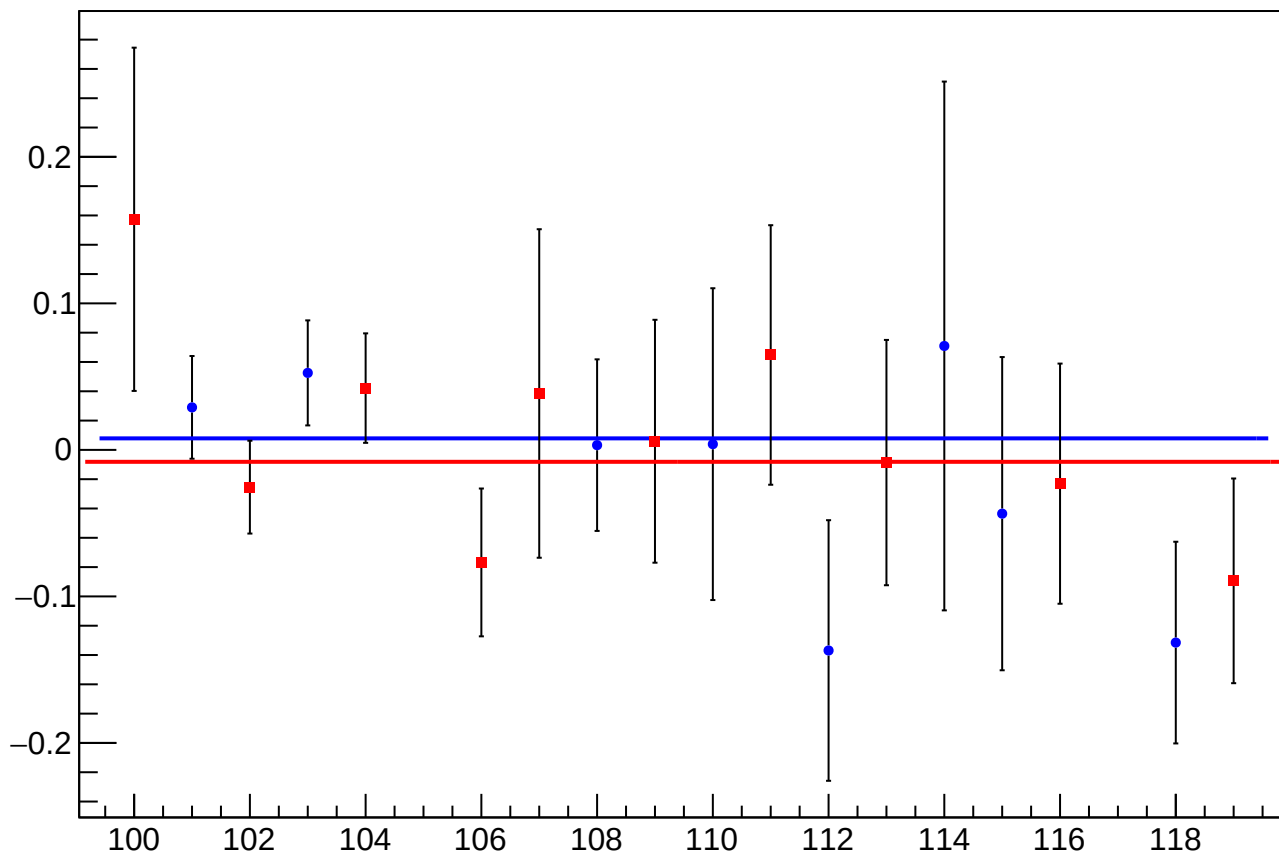
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 33.905 $\pm$ 0.010  $\chi^2$ /NDF: 1711690.6/17

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

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



Right In: 0.008 $\pm$ 0.020  $\chi^2$ /NDF: 9.0/7

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

Right Out: -0.008 $\pm$ 0.018  $\chi^2$ /NDF: 8.2/9

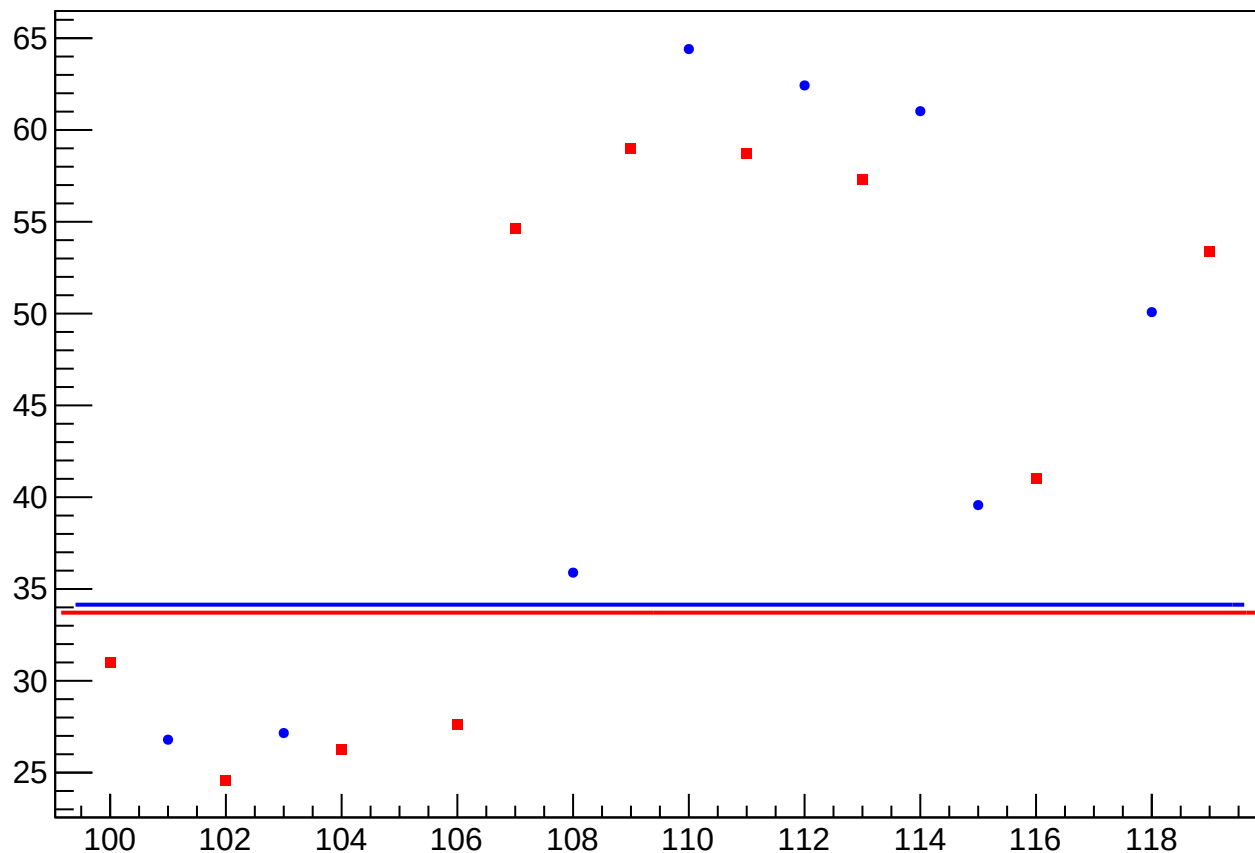
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.001 $\pm$ 0.014  $\chi^2$ /NDF: 17.6/17

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

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



Right In: 34.146 $\pm$ 0.014  $\chi^2$ /NDF: 686565.8/7

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

Right Out: 33.712 $\pm$ 0.013  $\chi^2$ /NDF: 1024617.4/9

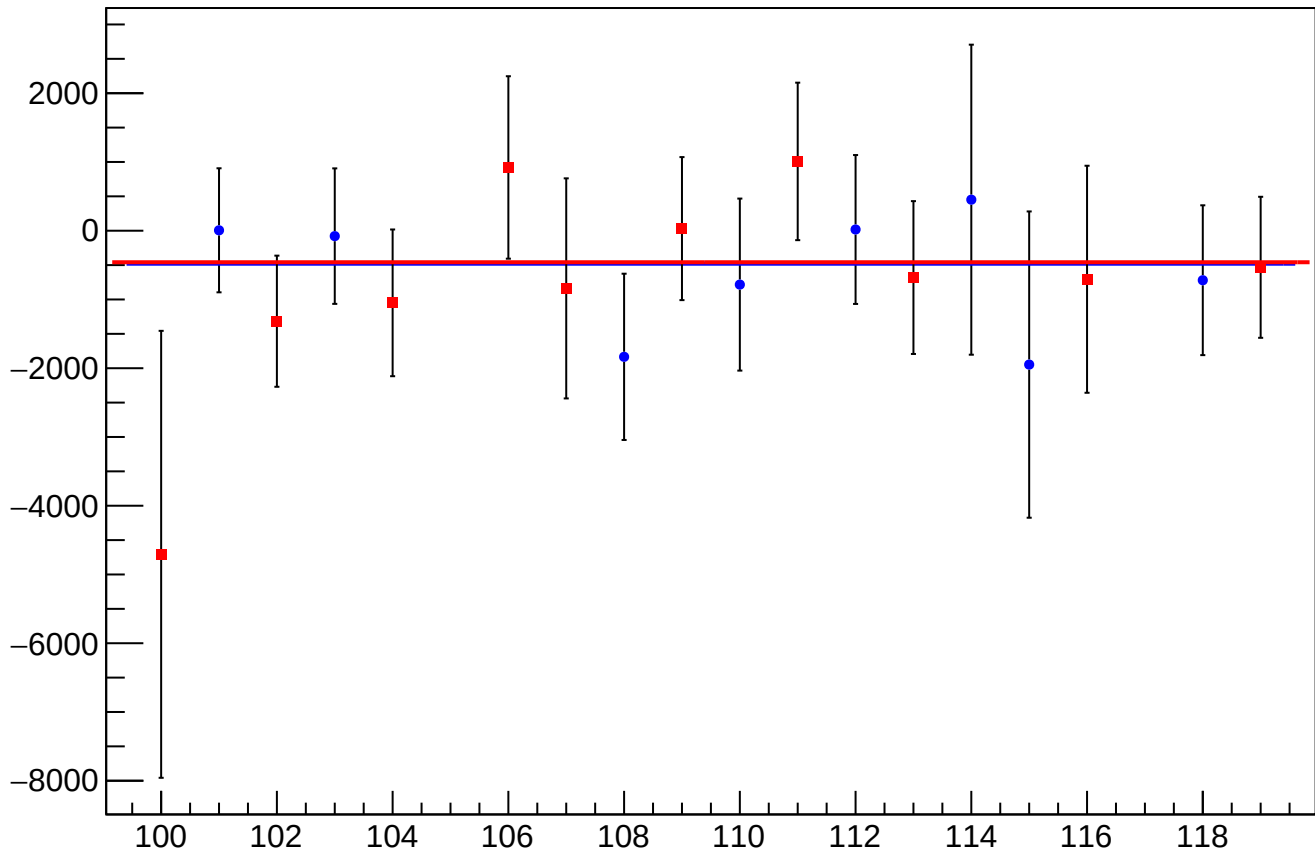
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 33.905 $\pm$ 0.010  $\chi^2$ /NDF: 1711690.6/17

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

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



Right In: -479.962+/-419.774  $\chi^2/\text{NDF}$ : 2.6/7

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

Right Out: -458.548+/-382.241  $\chi^2/\text{NDF}$ : 5.9/9

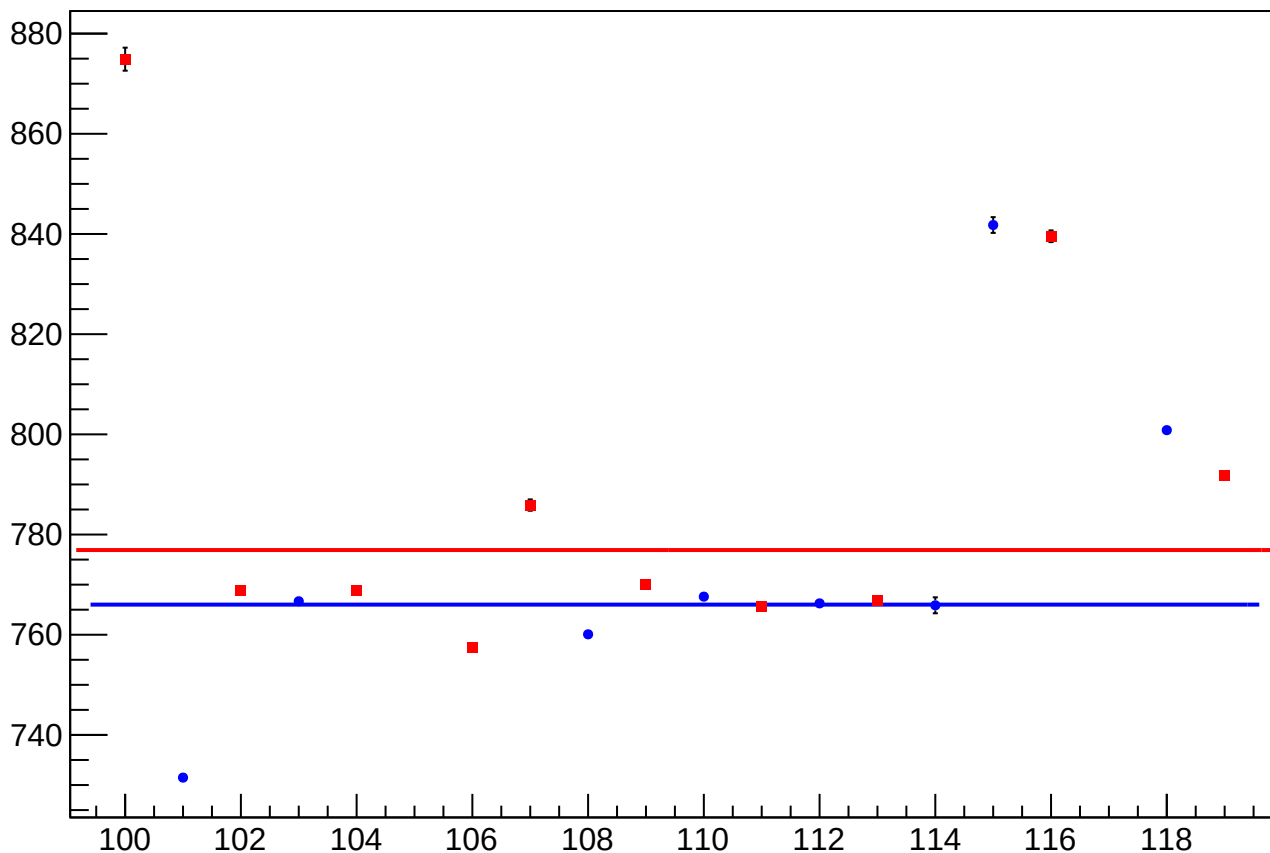
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -468.255+/-282.625  $\chi^2/\text{NDF}$ : 8.5/17

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

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



Right In: 766.015 $\pm$ 0.297  $\chi^2$ /NDF: 7340.9/7

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

Right Out: 776.909 $\pm$ 0.270  $\chi^2$ /NDF: 6308.9/9

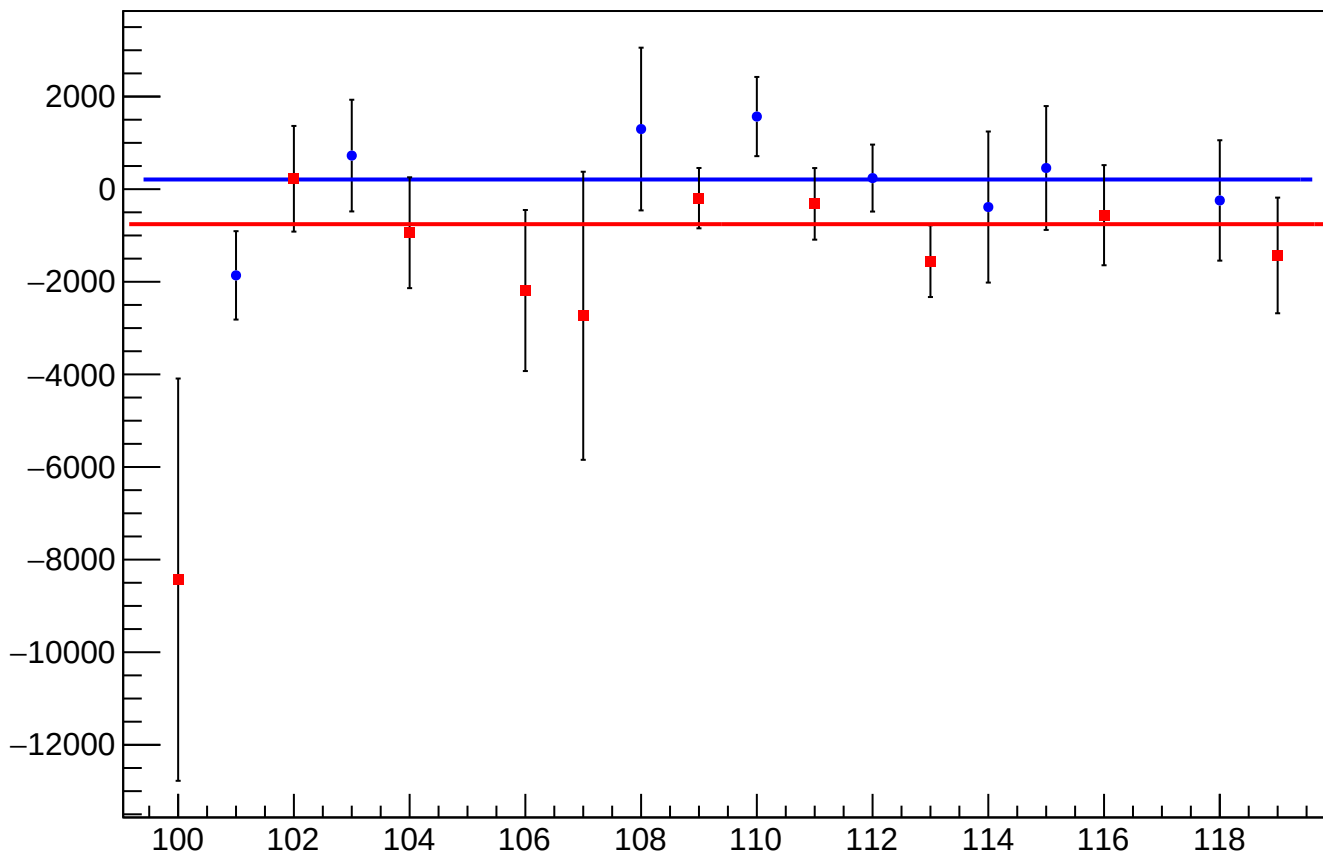
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 771.970 $\pm$ 0.200  $\chi^2$ /NDF: 14386.2/17

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

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



Right In: 209.002 $\pm$ 380.272  $\chi^2$ /NDF: 8.1/7

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

Right Out: -755.742 $\pm$ 330.735  $\chi^2$ /NDF: 7.4/9

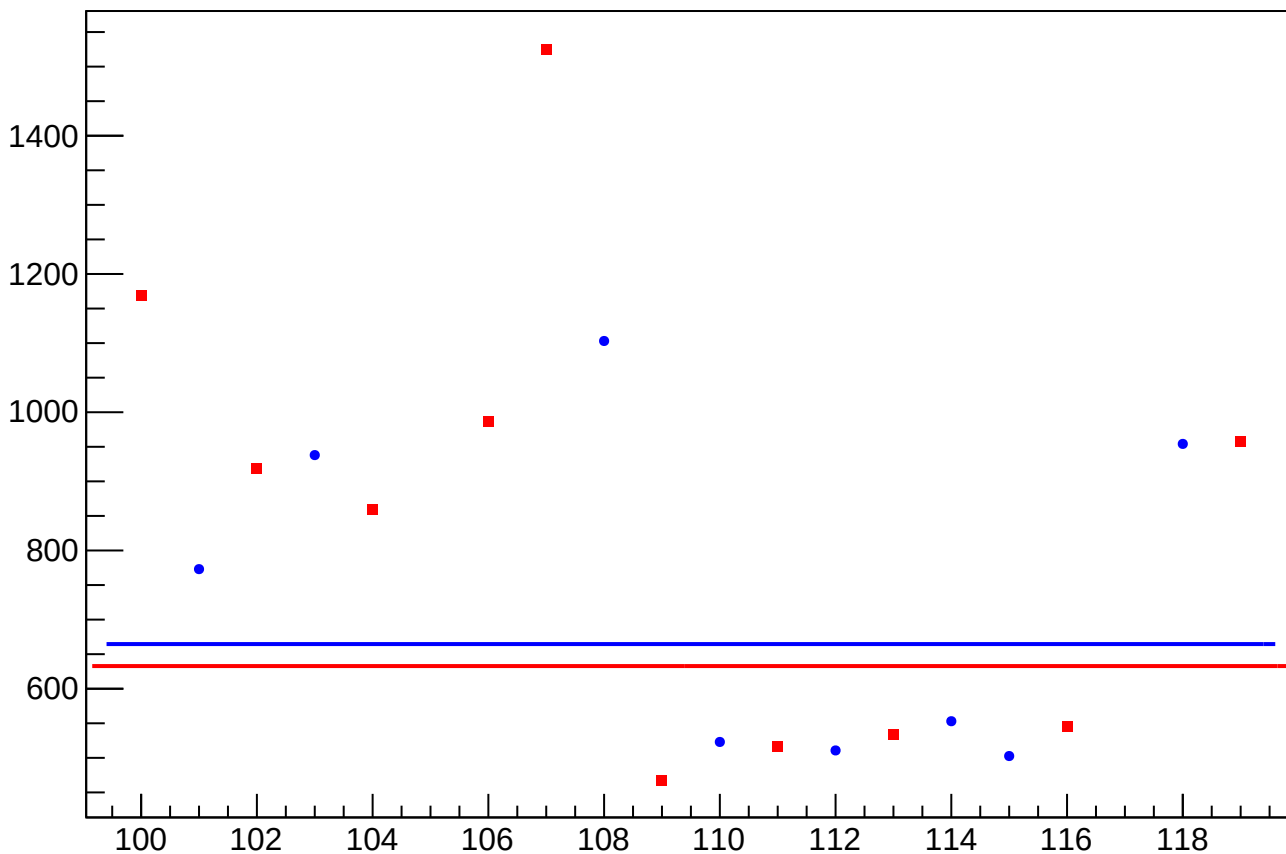
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -340.260 $\pm$ 249.554  $\chi^2$ /NDF: 19.2/17

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

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



Right In: 664.611 $\pm$ 0.269  $\chi^2$ /NDF: 536462.8/7

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

Right Out: 632.788 $\pm$ 0.234  $\chi^2$ /NDF: 831401.7/9

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

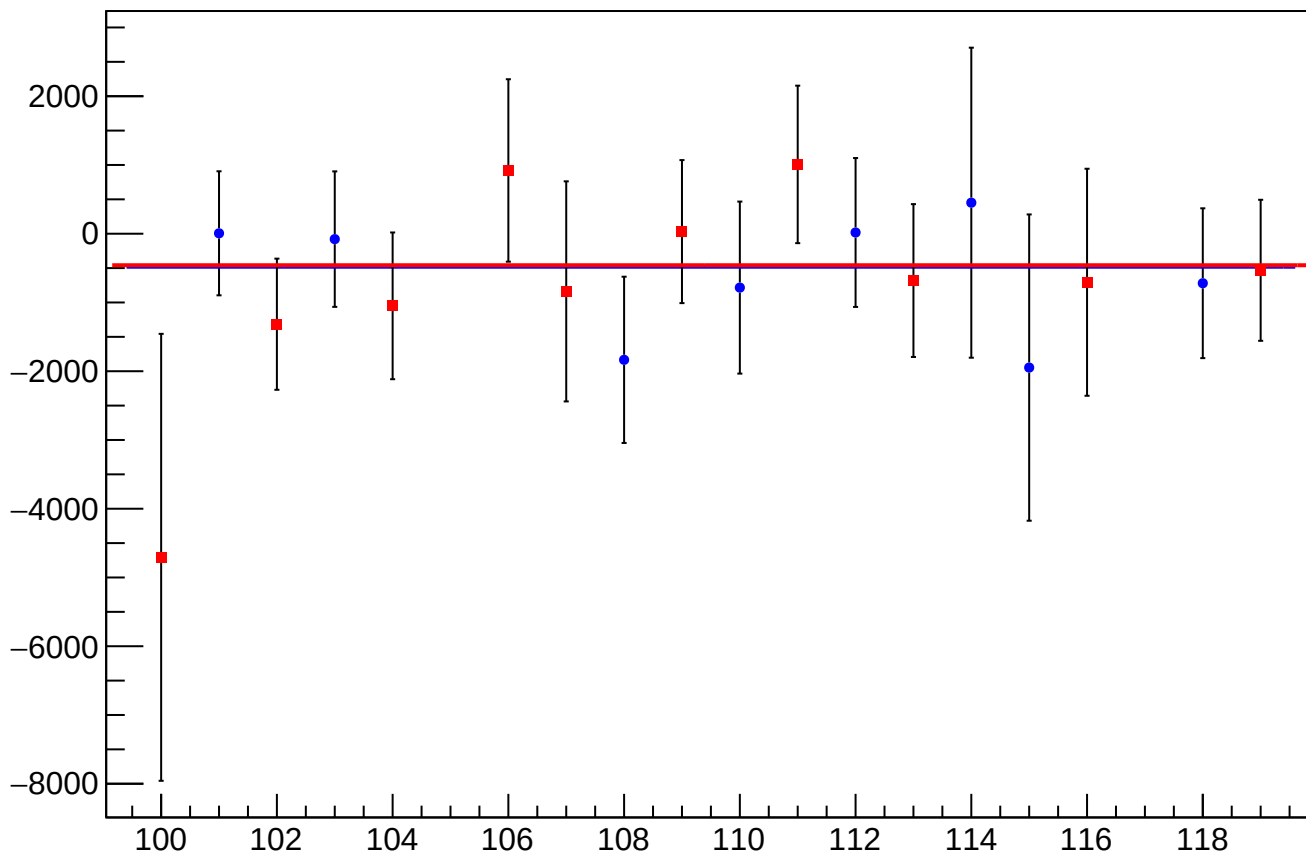
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 646.493 $\pm$ 0.176  $\chi^2$ /NDF: 1375839.0/17

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



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



Right In: -479.962 $\pm$ 419.774  $\chi^2$ /NDF: 2.6/7

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

Right Out: -458.548 $\pm$ 382.241  $\chi^2$ /NDF: 5.9/9

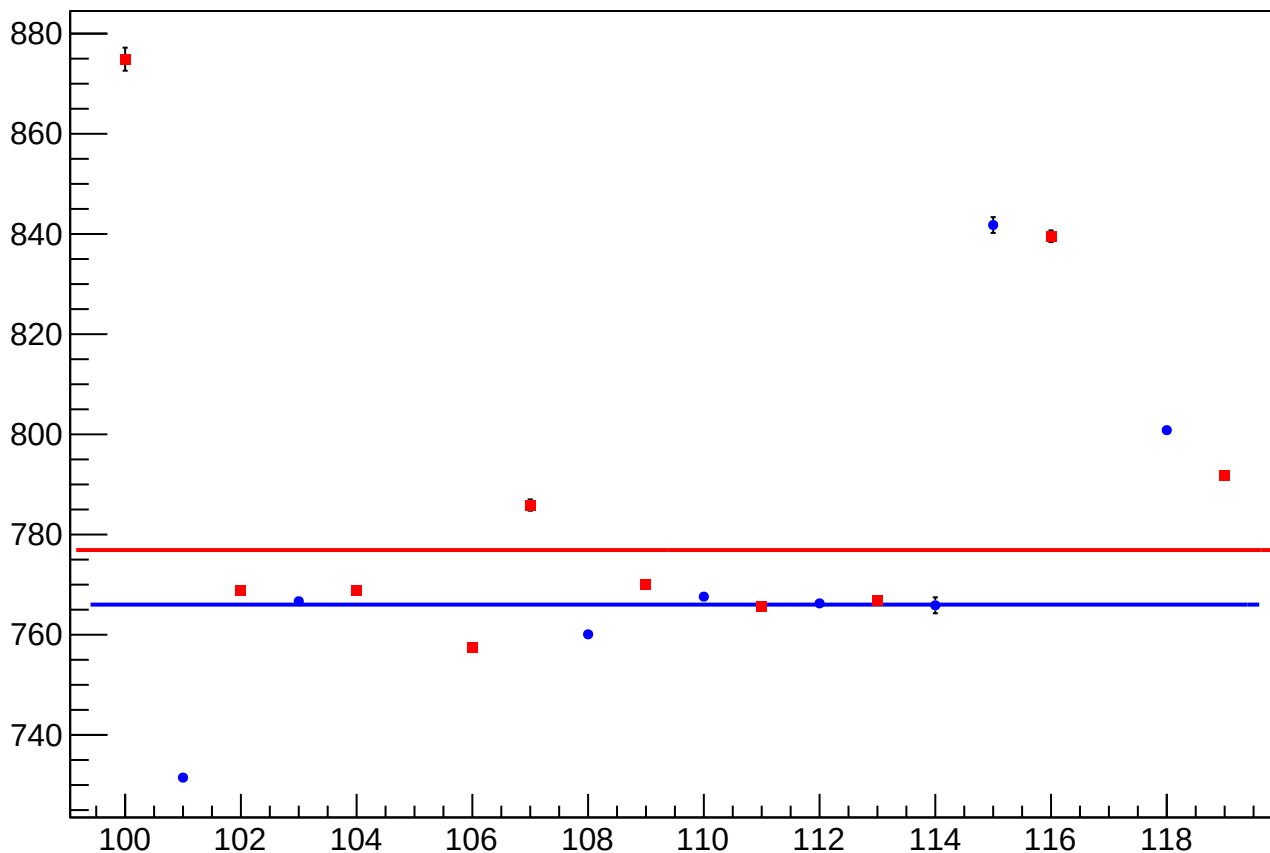
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -468.255 $\pm$ 282.625  $\chi^2$ /NDF: 8.5/17

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

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



Right In: 766.015 $\pm$ 0.297  $\chi^2$ /NDF: 7340.9/7

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

Right Out: 776.909 $\pm$ 0.270  $\chi^2$ /NDF: 6308.9/9

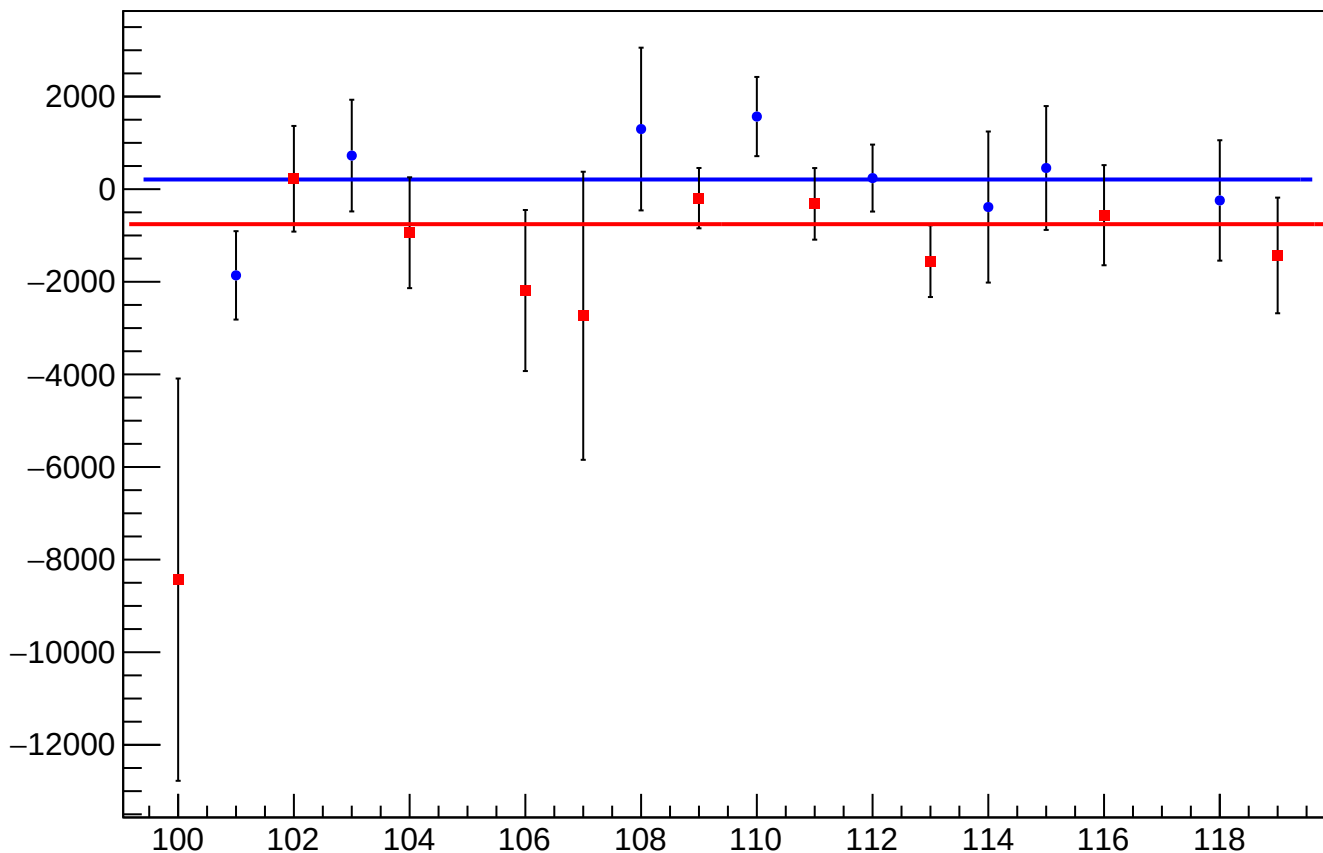
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 771.970 $\pm$ 0.200  $\chi^2$ /NDF: 14386.2/17

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

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



Right In: 209.002 $\pm$ 380.272  $\chi^2$ /NDF: 8.1/7

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

Right Out: -755.742 $\pm$ 330.735  $\chi^2$ /NDF: 7.4/9

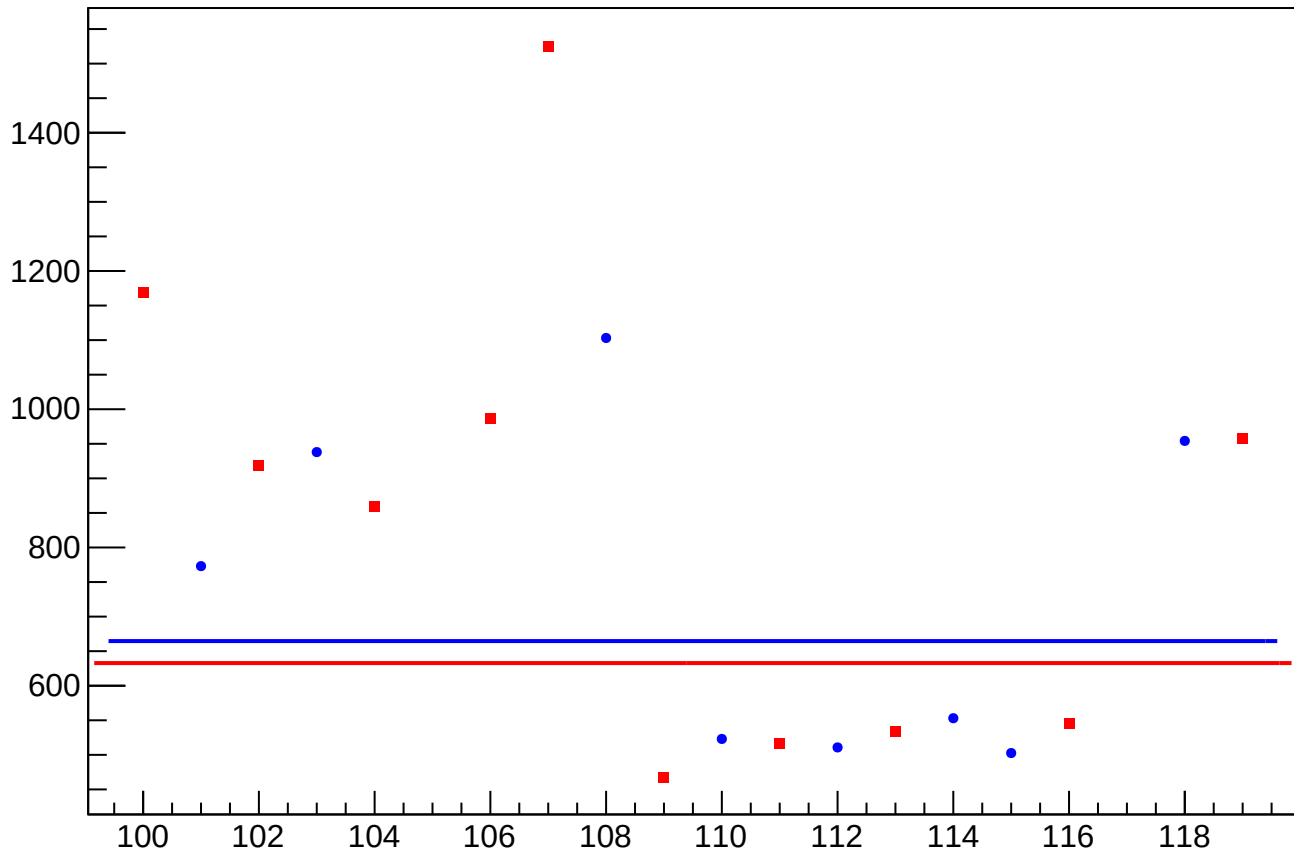
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -340.260 $\pm$ 249.554  $\chi^2$ /NDF: 19.2/17

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

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



Right In: 664.611 $\pm$ 0.269  $\chi^2$ /NDF: 536462.8/7

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

Right Out: 632.788 $\pm$ 0.234  $\chi^2$ /NDF: 831401.7/9

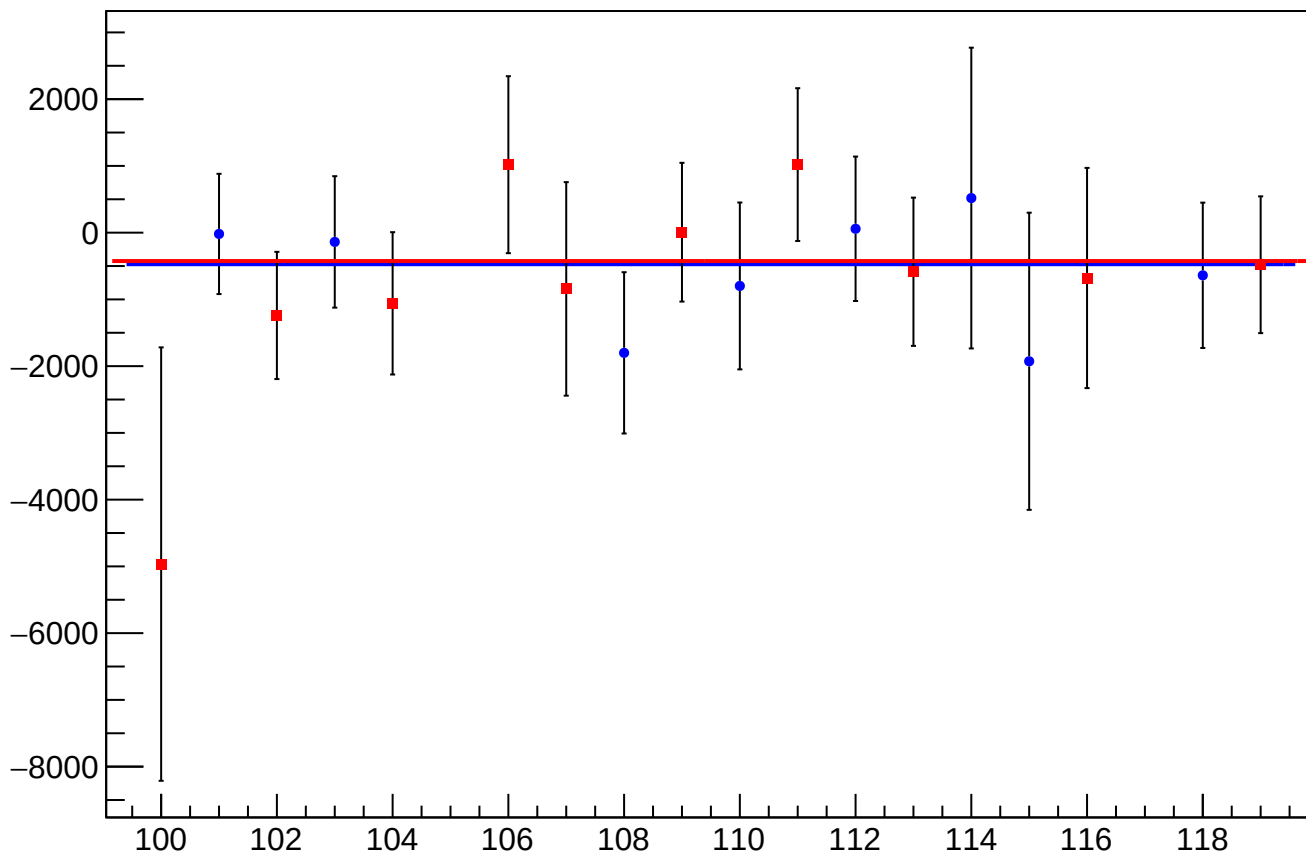
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 646.493 $\pm$ 0.176  $\chi^2$ /NDF: 1375839.0/17

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

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



Right In: -472.733+/-419.388  $\chi^2/\text{NDF}$ : 2.5/7

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

Right Out: -425.373+/-381.932  $\chi^2/\text{NDF}$ : 6.1/9

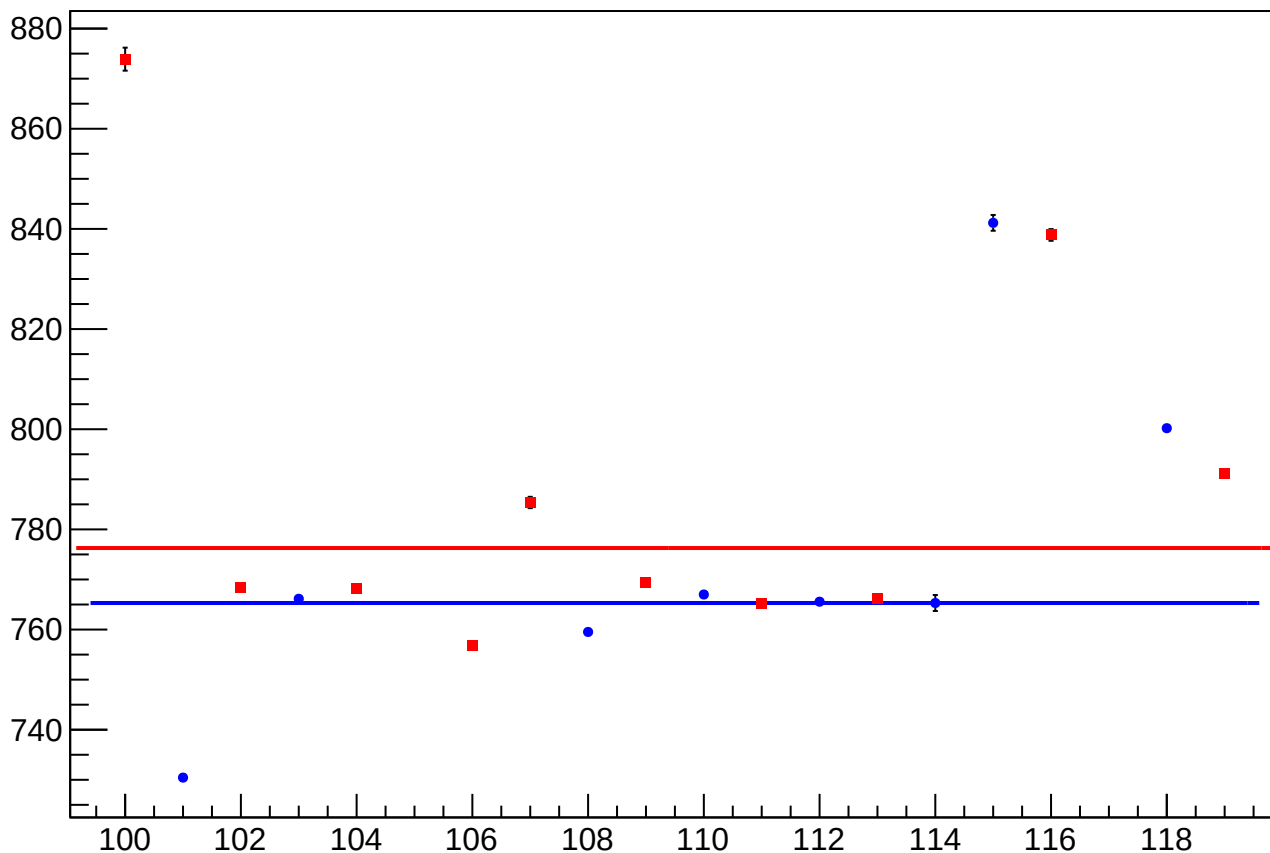
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -446.844+/-282.382  $\chi^2/\text{NDF}$ : 8.6/17

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

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



Right In: 765.305 $\pm$ 0.297  $\chi^2$ /NDF: 7428.5/7

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

Right Out: 776.282 $\pm$ 0.270  $\chi^2$ /NDF: 6291.8/9

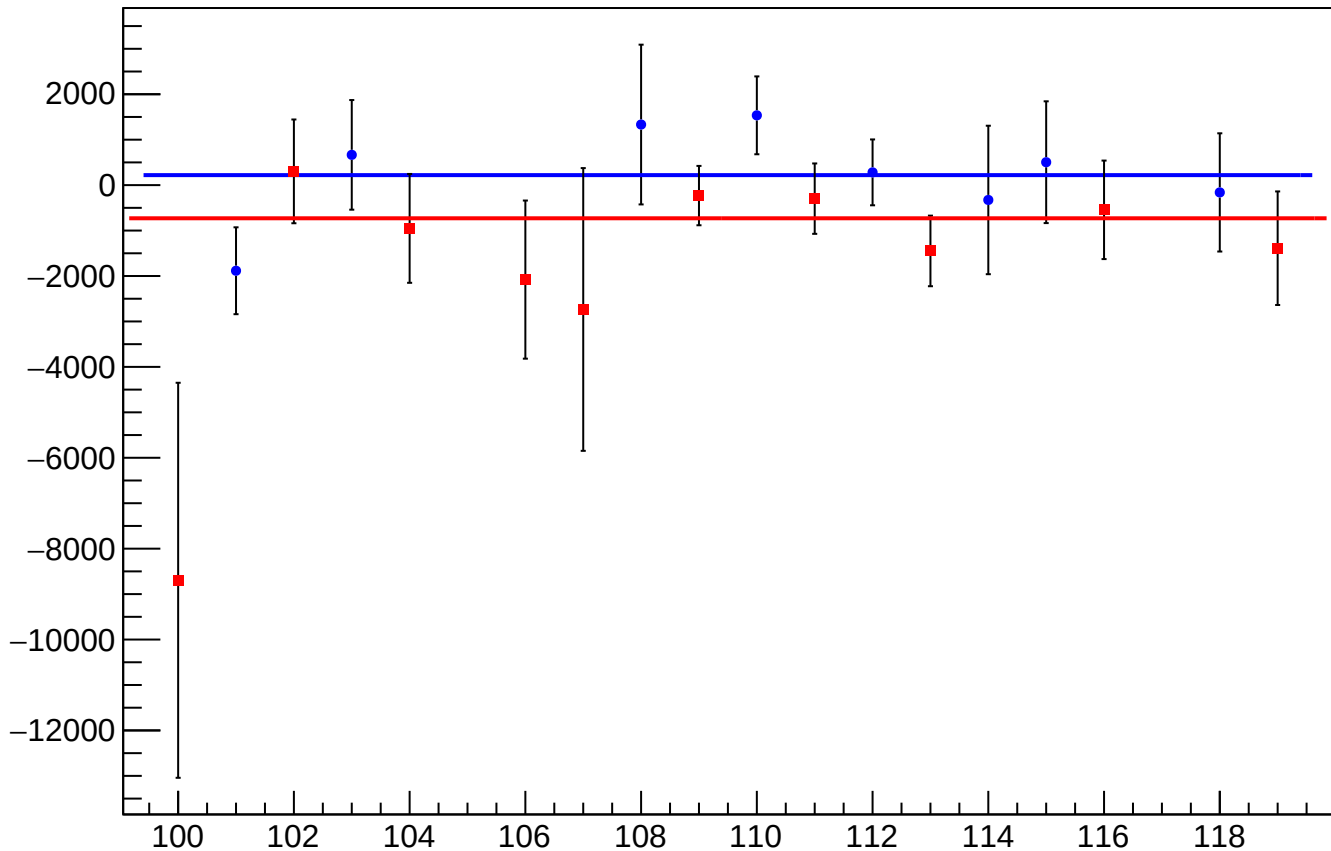
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 771.306 $\pm$ 0.200  $\chi^2$ /NDF: 14469.2/17

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

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



Right In: 220.055+/-380.830  $\chi^2/\text{NDF}$ : 8.0/7

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

Right Out: -729.796+/-331.265  $\chi^2/\text{NDF}$ : 7.3/9

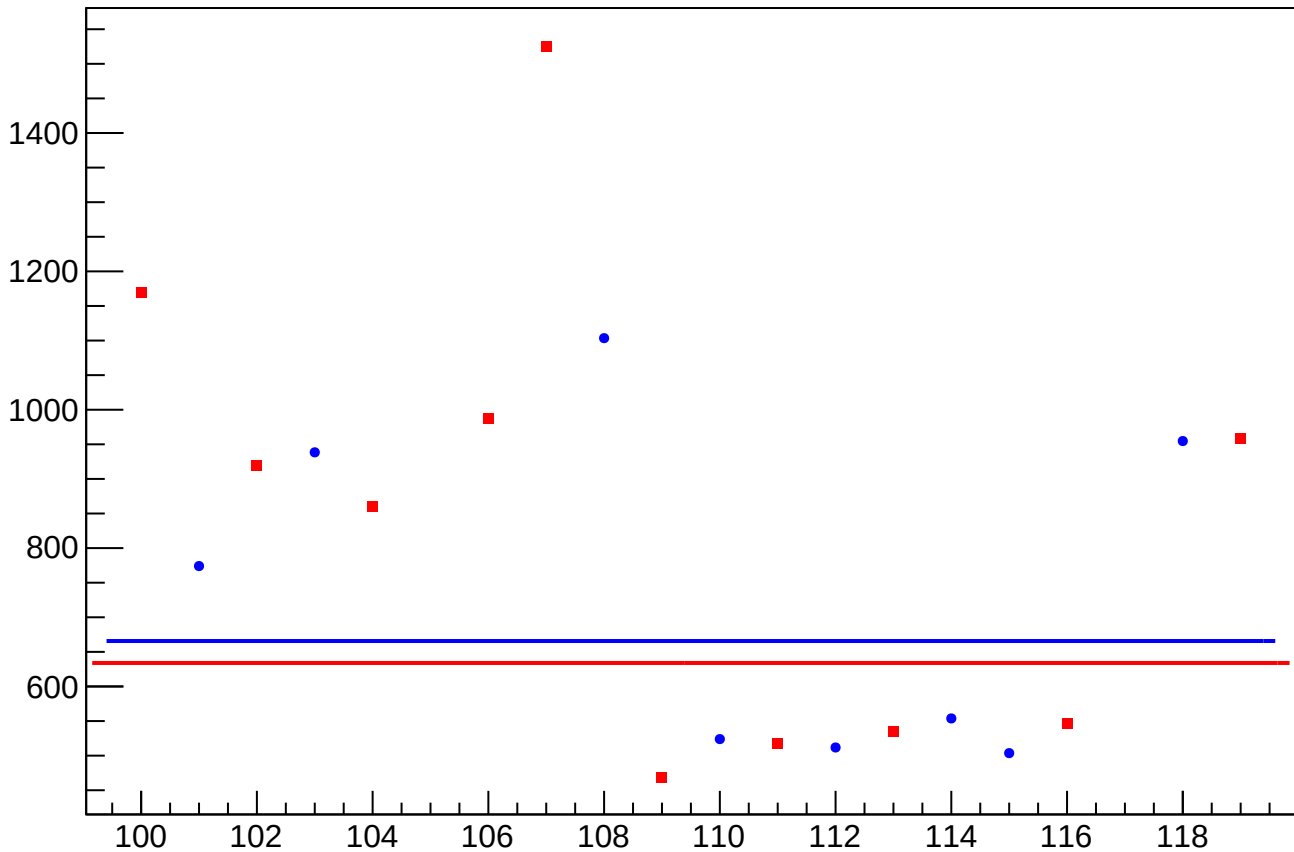
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -320.665+/-249.939  $\chi^2/\text{NDF}$ : 18.8/17

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

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



Right In: 665.708+/-0.269  $\chi^2/\text{NDF}$ : 534348.8/7

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

Right Out: 633.965+/-0.234  $\chi^2/\text{NDF}$ : 828127.8/9

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

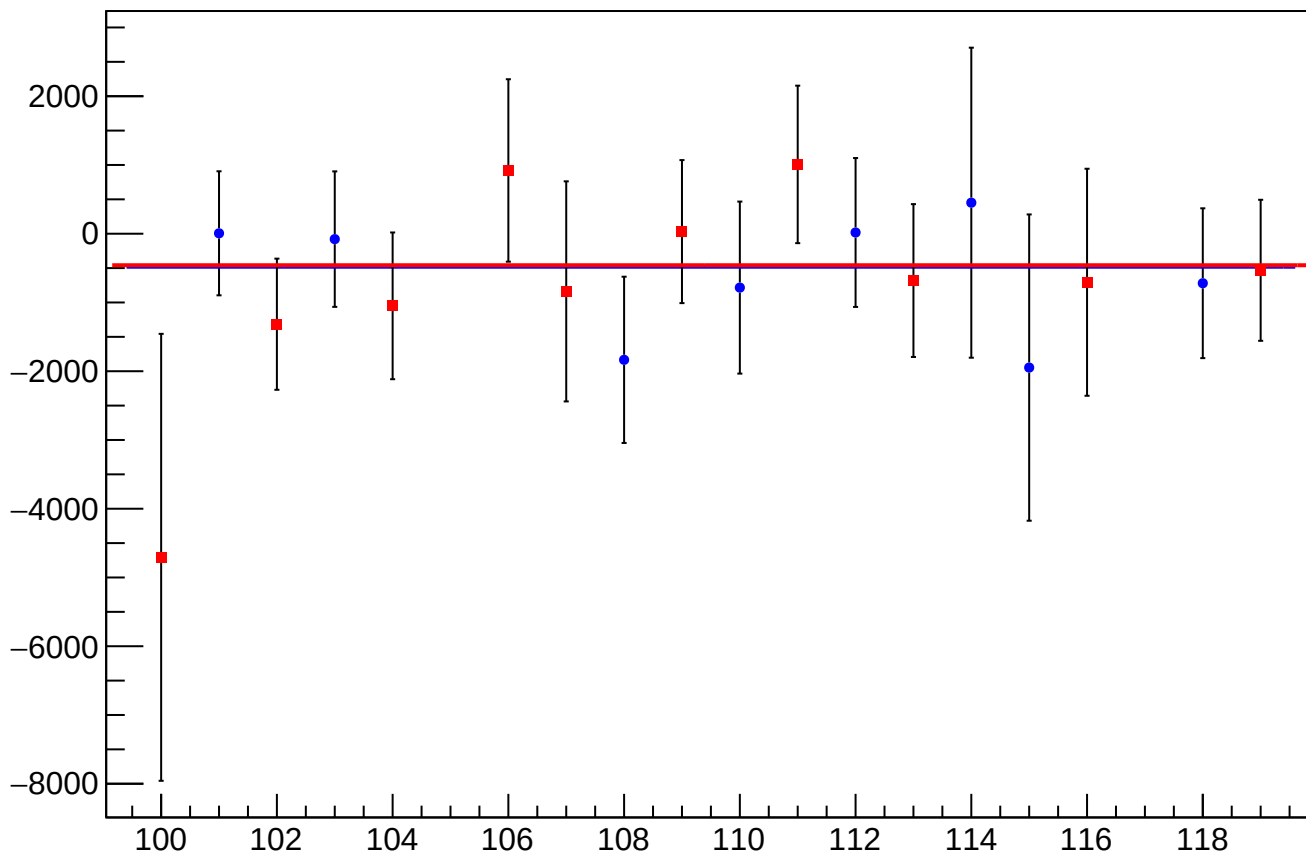
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 647.638+/-0.177  $\chi^2/\text{NDF}$ : 1370387.0/17

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



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



Right In: -479.962 $\pm$ 419.774  $\chi^2/\text{NDF}$ : 2.6/7

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

Right Out: -458.548 $\pm$ 382.241  $\chi^2/\text{NDF}$ : 5.9/9

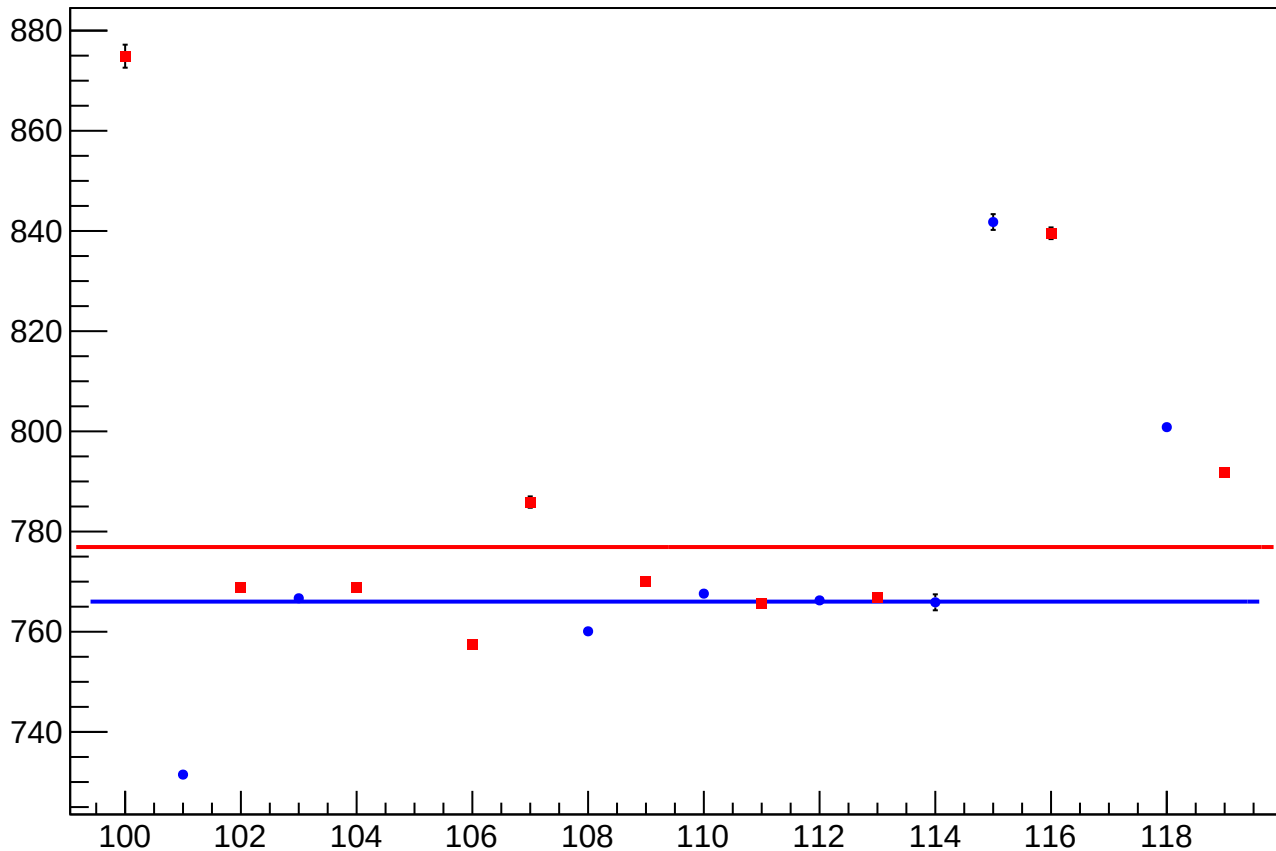
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -468.255 $\pm$ 282.625  $\chi^2/\text{NDF}$ : 8.5/17

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

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



Right In: 766.015 $\pm$ 0.297  $\chi^2$ /NDF: 7340.9/7

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

Right Out: 776.909 $\pm$ 0.270  $\chi^2$ /NDF: 6308.9/9

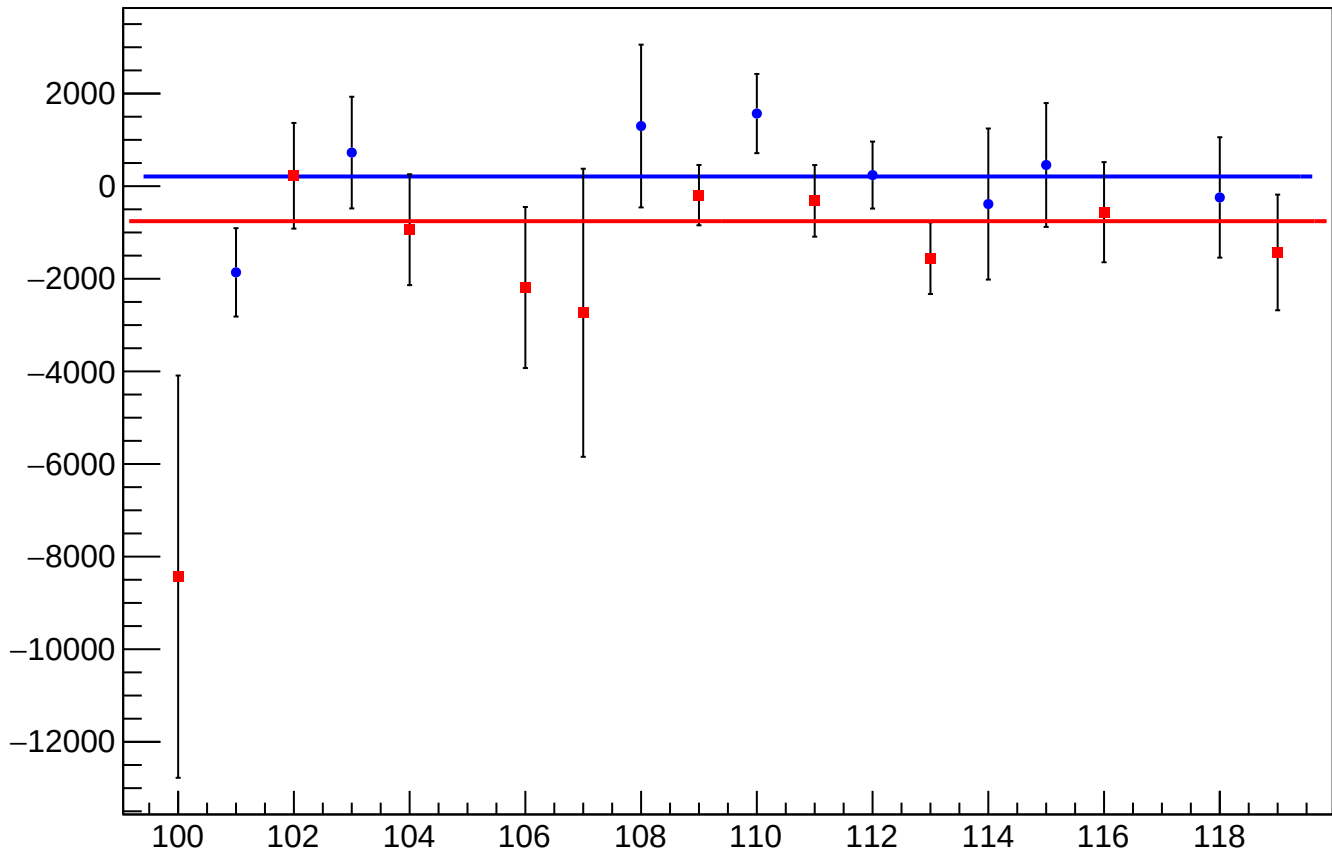
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 771.970 $\pm$ 0.200  $\chi^2$ /NDF: 14386.2/17

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

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



Right In: 209.002 $\pm$ 380.272  $\chi^2$ /NDF: 8.1/7

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

Right Out: -755.742 $\pm$ 330.735  $\chi^2$ /NDF: 7.4/9

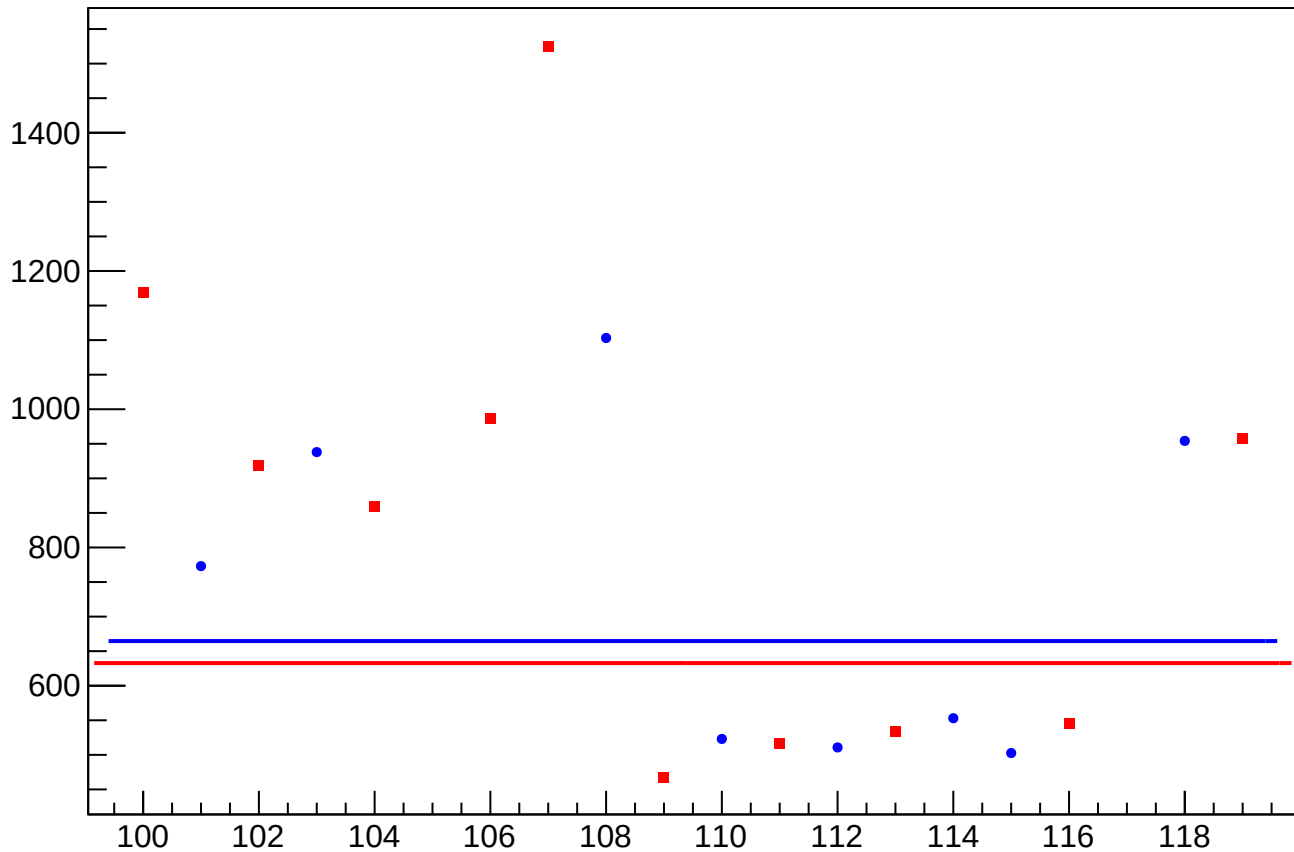
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -340.260 $\pm$ 249.554  $\chi^2$ /NDF: 19.2/17

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

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



Right In: 664.611+/-0.269  $\chi^2/\text{NDF}$ : 536462.8/7

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

Right Out: 632.788+/-0.234  $\chi^2/\text{NDF}$ : 831401.7/9

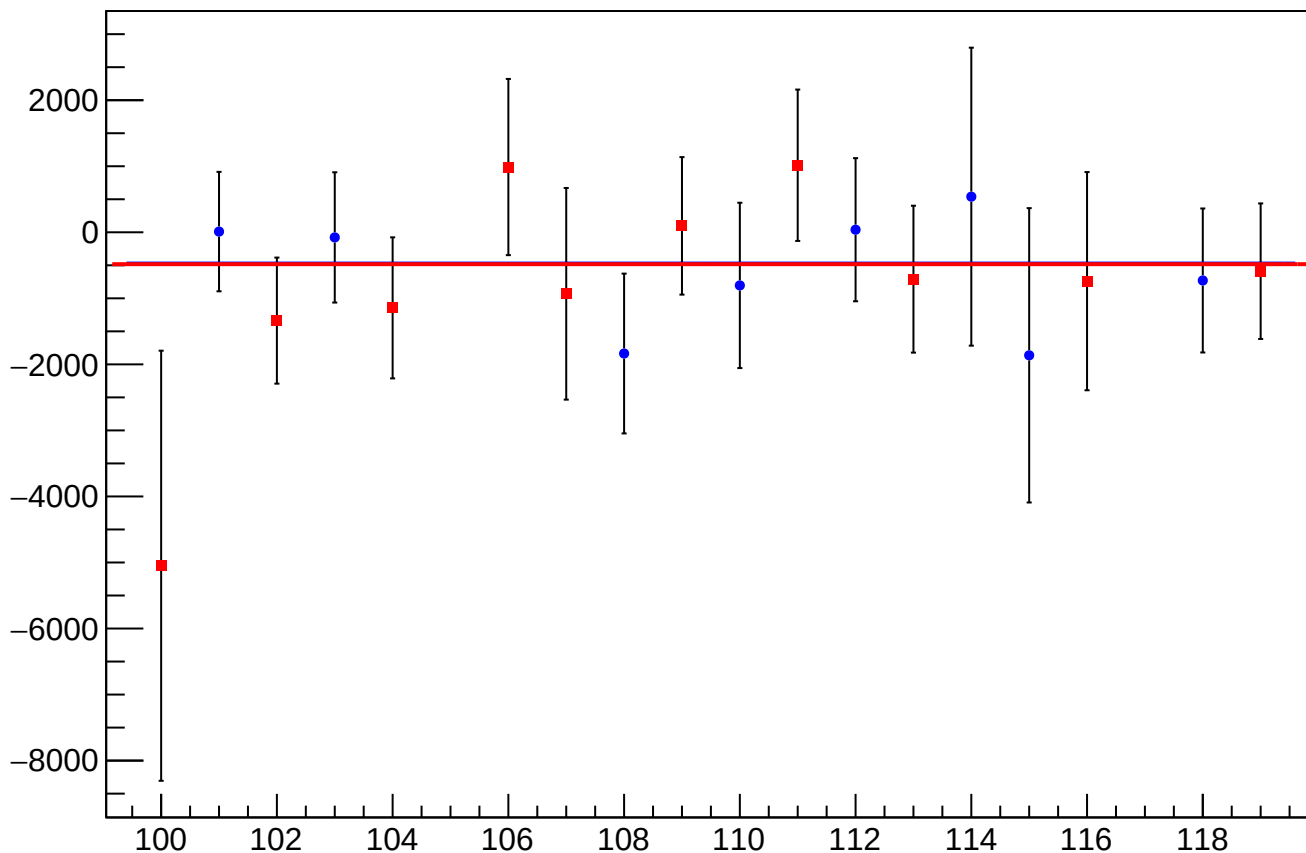
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 646.493+/-0.176  $\chi^2/\text{NDF}$ : 1375839.0/17

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

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



Right In: -473.966 $\pm$ 420.216  $\chi^2$ /NDF: 2.7/7

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

Right Out: -482.883 $\pm$ 382.671  $\chi^2$ /NDF: 6.5/9

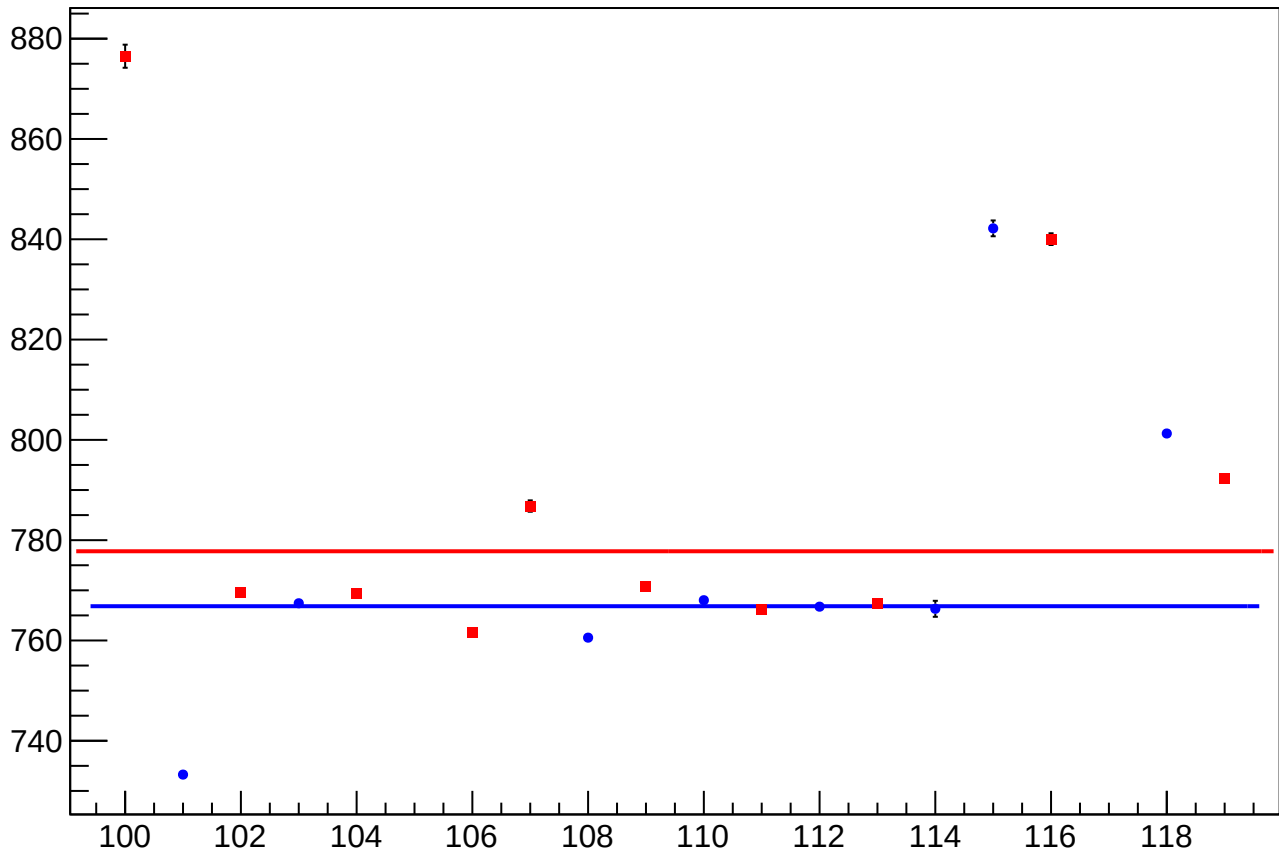
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -478.841 $\pm$ 282.934  $\chi^2$ /NDF: 9.2/17

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

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



Right In: 766.833 $\pm$ 0.297  $\chi^2$ /NDF: 7095.5/7

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

Right Out: 777.789 $\pm$ 0.271  $\chi^2$ /NDF: 6186.5/9

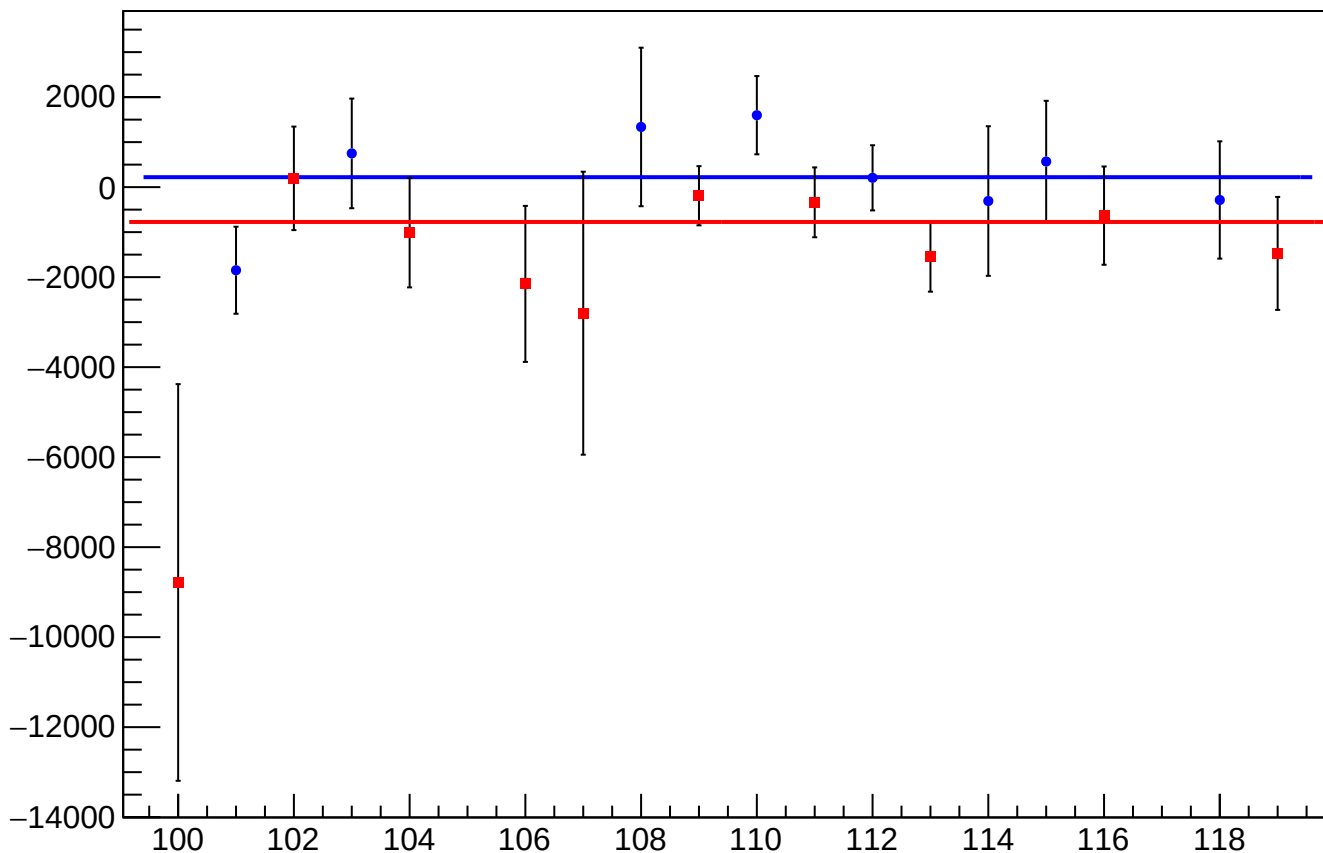
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 772.822 $\pm$ 0.200  $\chi^2$ /NDF: 14025.3/17

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

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



Right In: 221.331+/-383.578  $\chi^2/\text{NDF}$ : 8.0/7

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

Right Out: -774.011+/-333.482  $\chi^2/\text{NDF}$ : 7.5/9

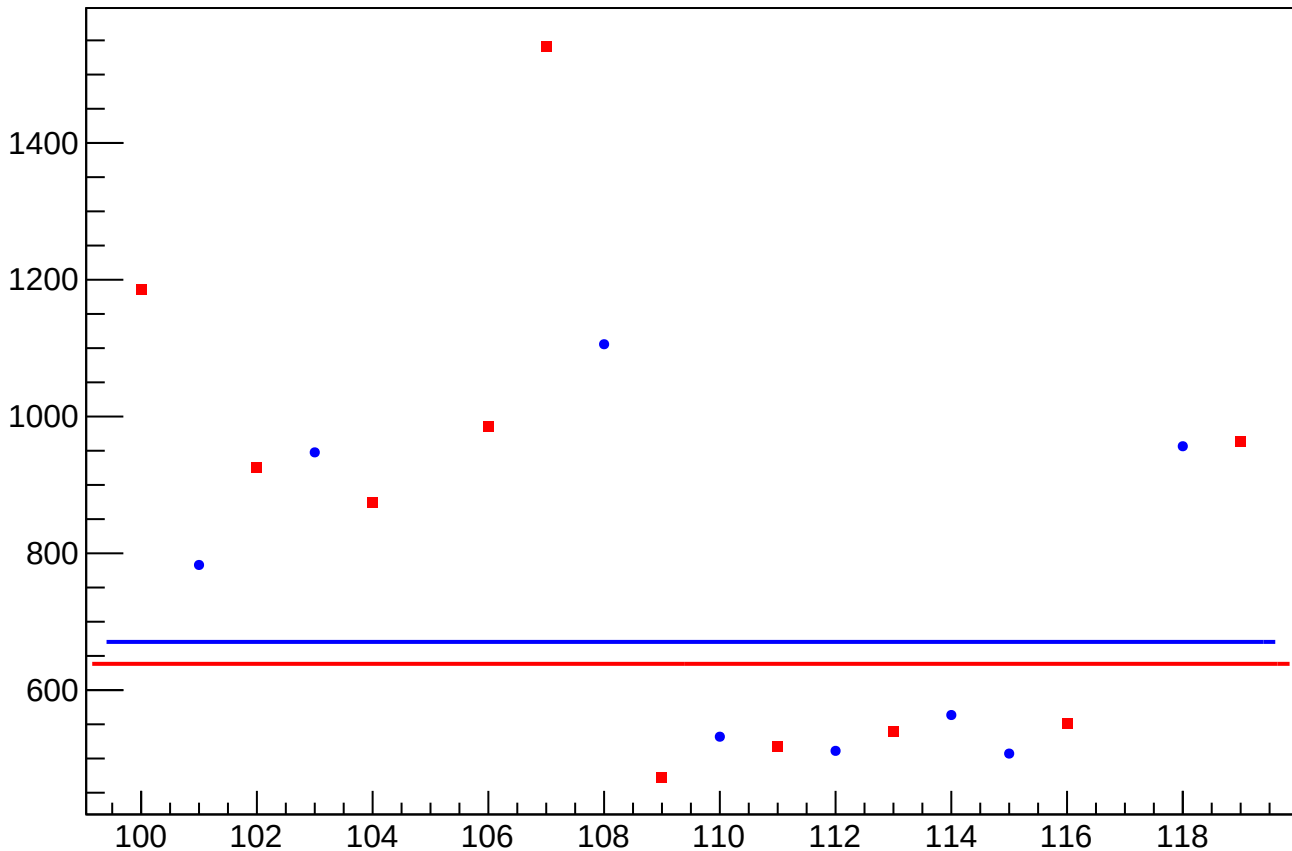
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -345.539+/-251.668  $\chi^2/\text{NDF}$ : 19.3/17

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

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



Right In: 670.493+/-0.271  $\chi^2/\text{NDF}$ : 534266.5/7

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

Right Out: 638.421+/-0.236  $\chi^2/\text{NDF}$ : 831092.3/9

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

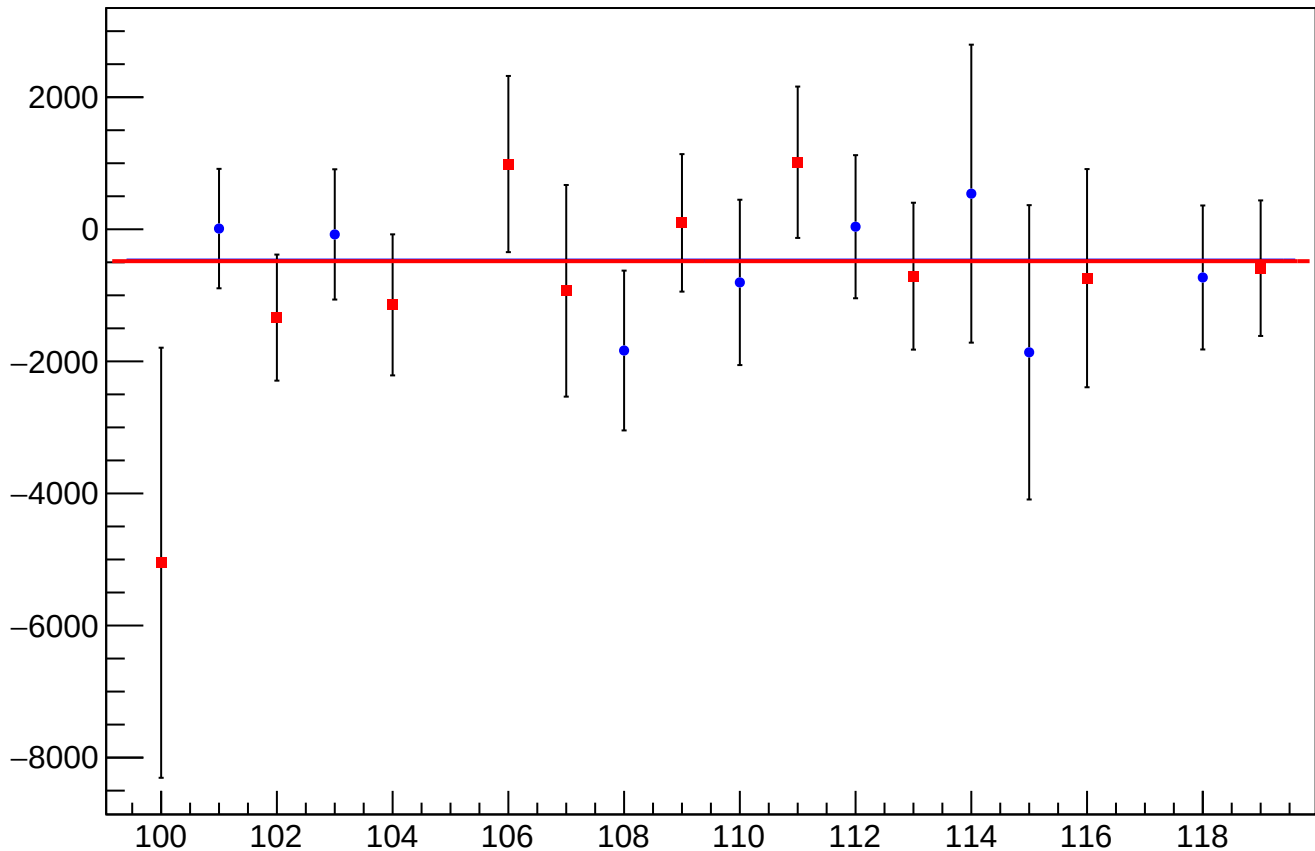
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 652.227+/-0.178  $\chi^2/\text{NDF}$ : 1373321.8/17

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



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



Right In: -473.968+/-420.216  $\chi^2/\text{NDF}$ : 2.7/7

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

Right Out: -482.879+/-382.671  $\chi^2/\text{NDF}$ : 6.5/9

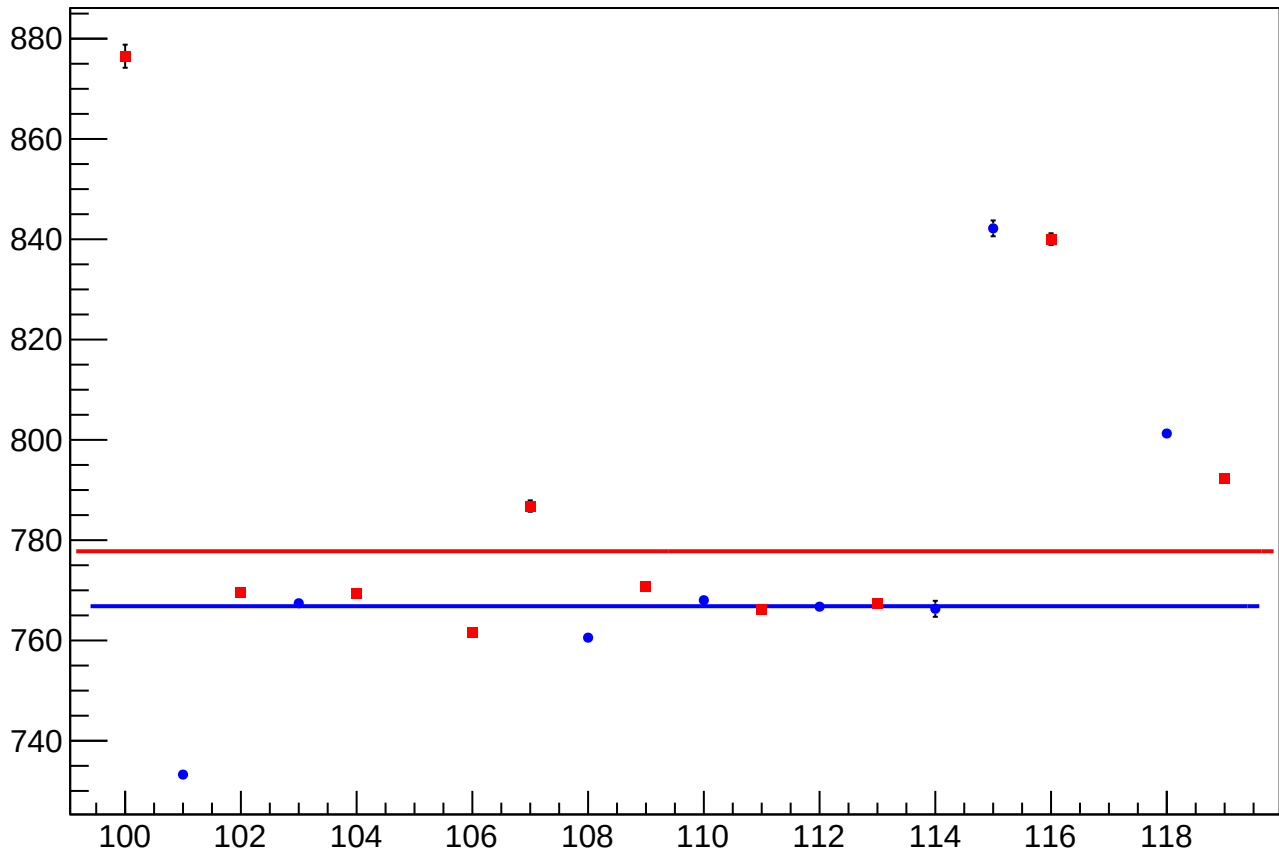
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -478.839+/-282.934  $\chi^2/\text{NDF}$ : 9.2/17

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

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



Right In: 766.833 $\pm$ 0.297  $\chi^2$ /NDF: 7095.5/7

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

Right Out: 777.789 $\pm$ 0.271  $\chi^2$ /NDF: 6186.5/9

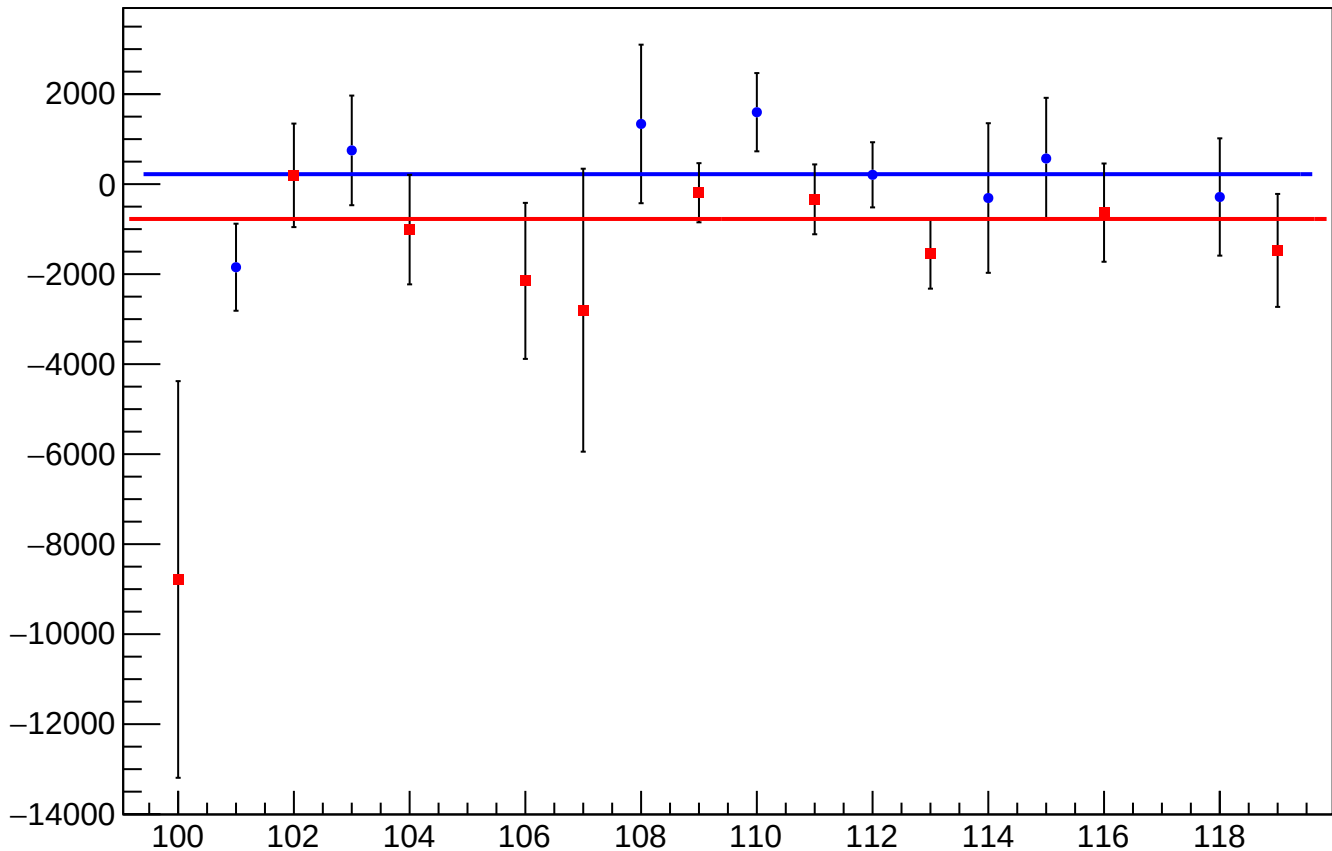
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 772.822 $\pm$ 0.200  $\chi^2$ /NDF: 14025.3/17

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

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



Right In: 221.331+/-383.575  $\chi^2/\text{NDF}$ : 8.0/7

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

Right Out: -774.007+/-333.480  $\chi^2/\text{NDF}$ : 7.5/9

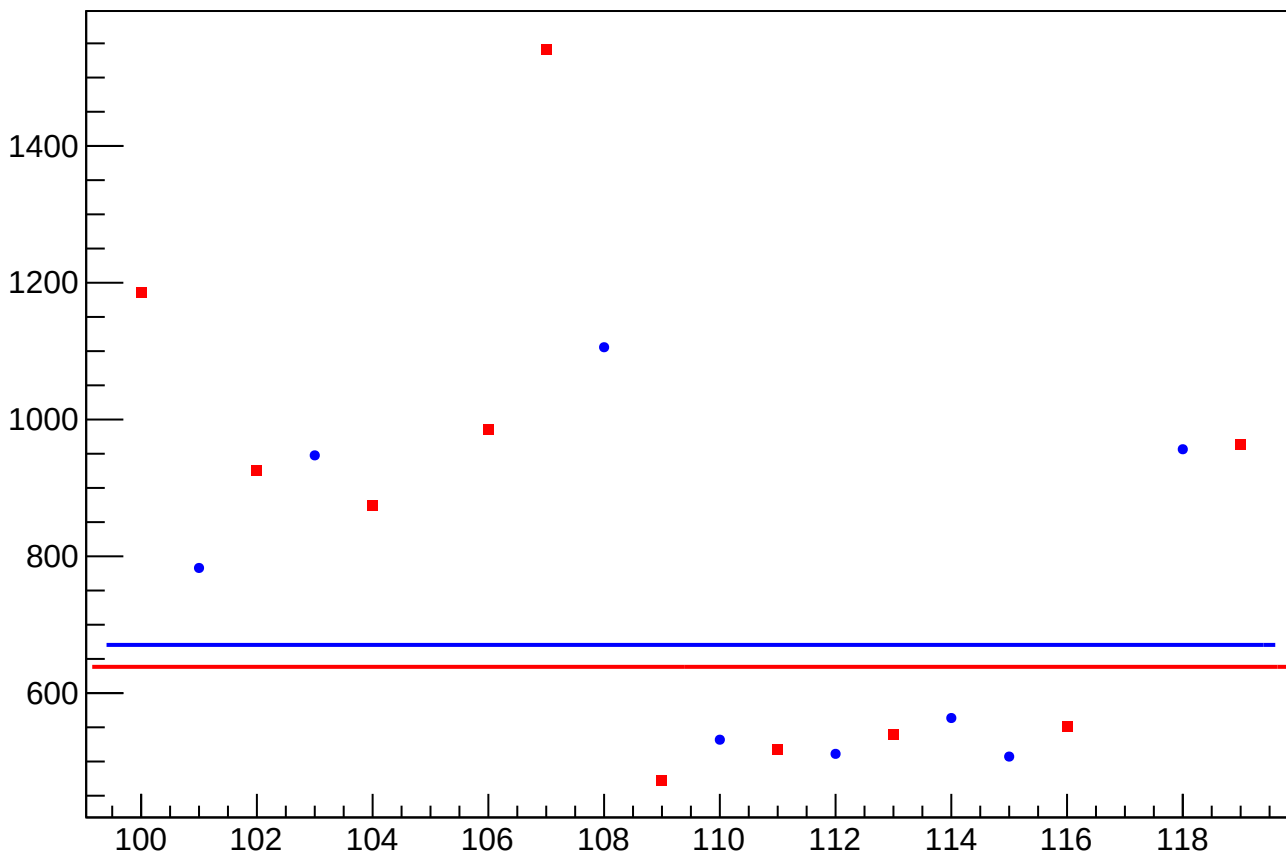
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -345.537+/-251.667  $\chi^2/\text{NDF}$ : 19.3/17

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

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



Right In: 670.488 $\pm$ 0.271  $\chi^2$ /NDF: 534280.8/7

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

Right Out: 638.417 $\pm$ 0.236  $\chi^2$ /NDF: 831109.1/9

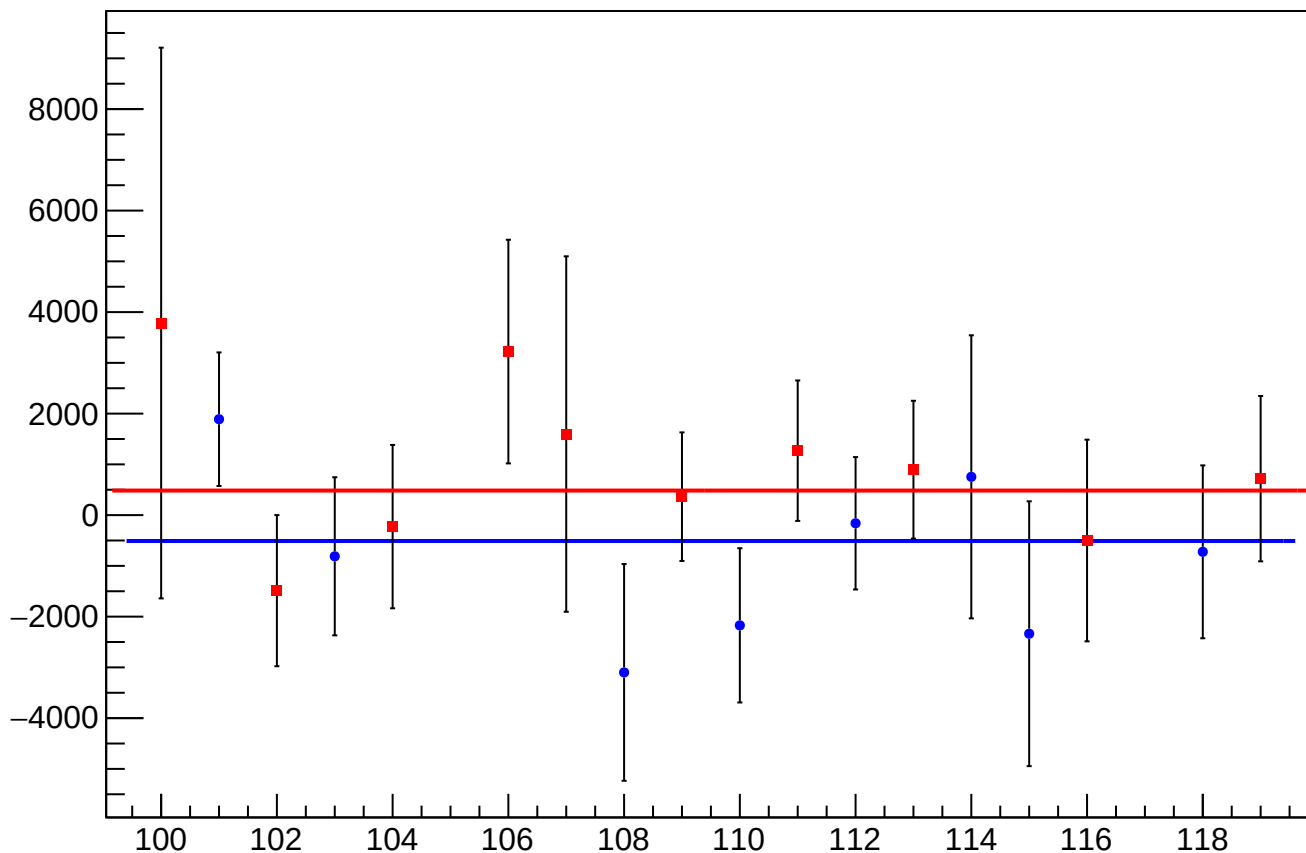
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 652.223 $\pm$ 0.178  $\chi^2$ /NDF: 1373352.8/17

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

# asym\_us\_dd\_mean vs Slug



Right In: -509.690+/-592.327  $\chi^2/\text{NDF}$ : 6.8/7

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

Right Out: 484.032+/-536.300  $\chi^2/\text{NDF}$ : 4.7/9

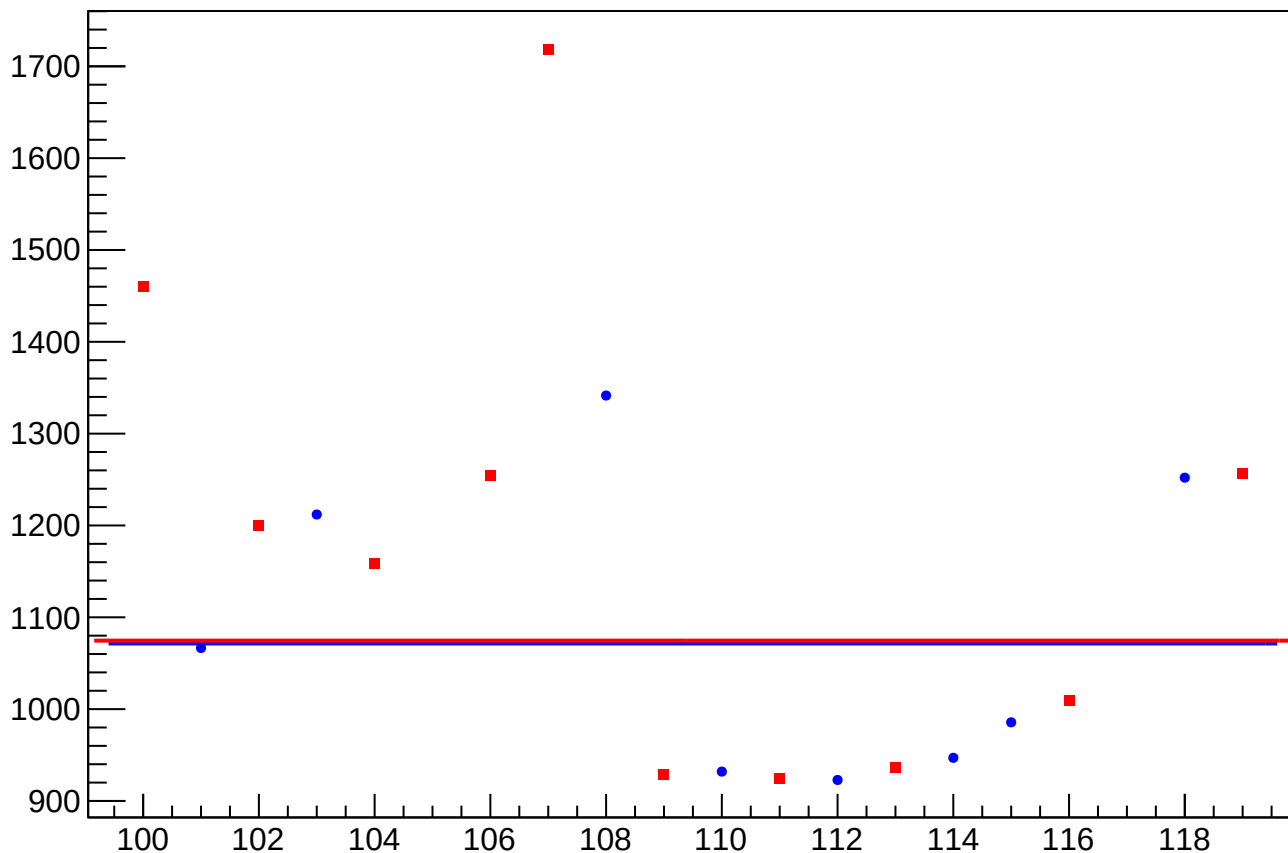
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 36.380+/-397.557  $\chi^2/\text{NDF}$ : 13.0/17

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

# asym\_us\_dd\_rms vs Slug



Right In: 1071.517+/-0.419  $\chi^2/\text{NDF}$ : 119709.5/7

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

Right Out: 1074.596+/-0.379  $\chi^2/\text{NDF}$ : 208151.7/9

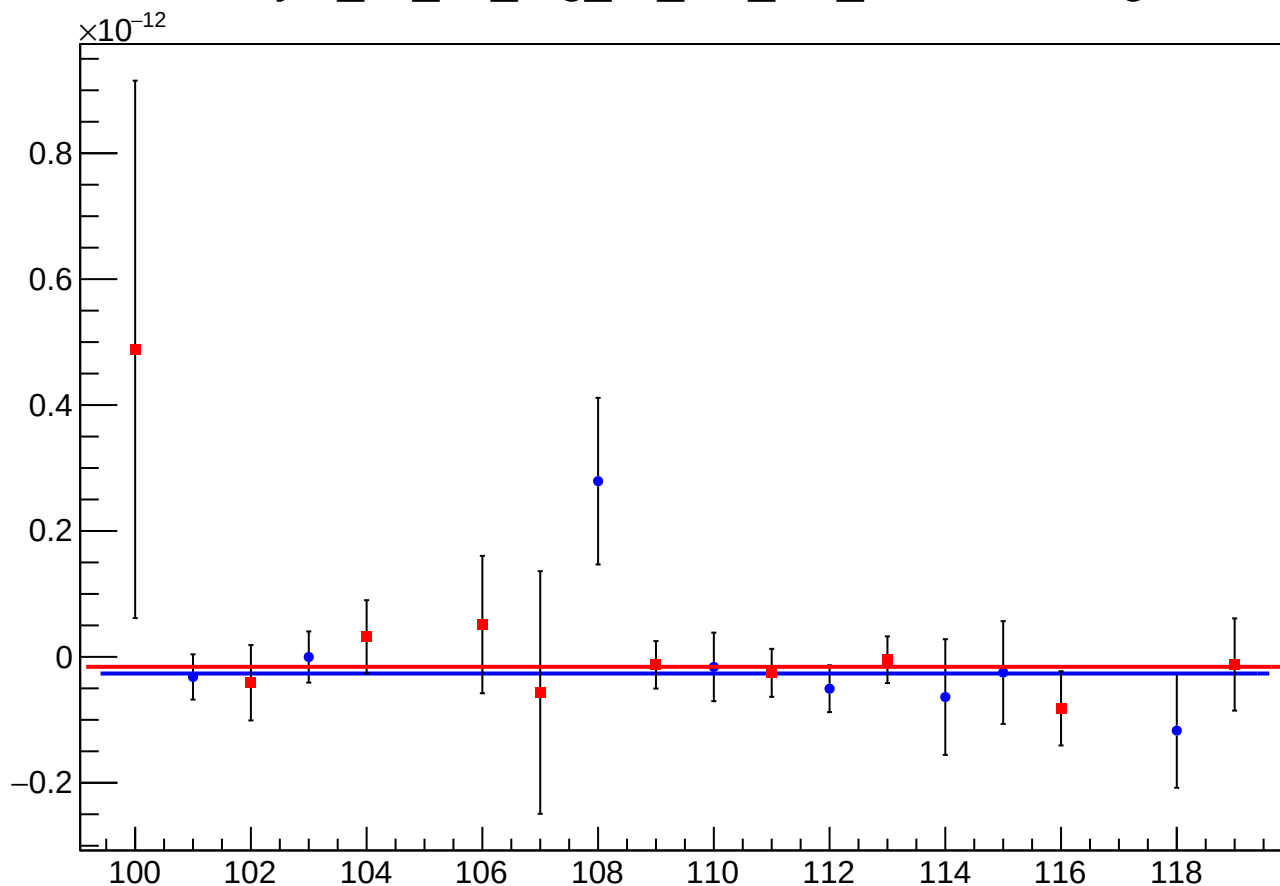
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1073.209+/-0.281  $\chi^2/\text{NDF}$ : 327890.9/17

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

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



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.4/7

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

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.1/9

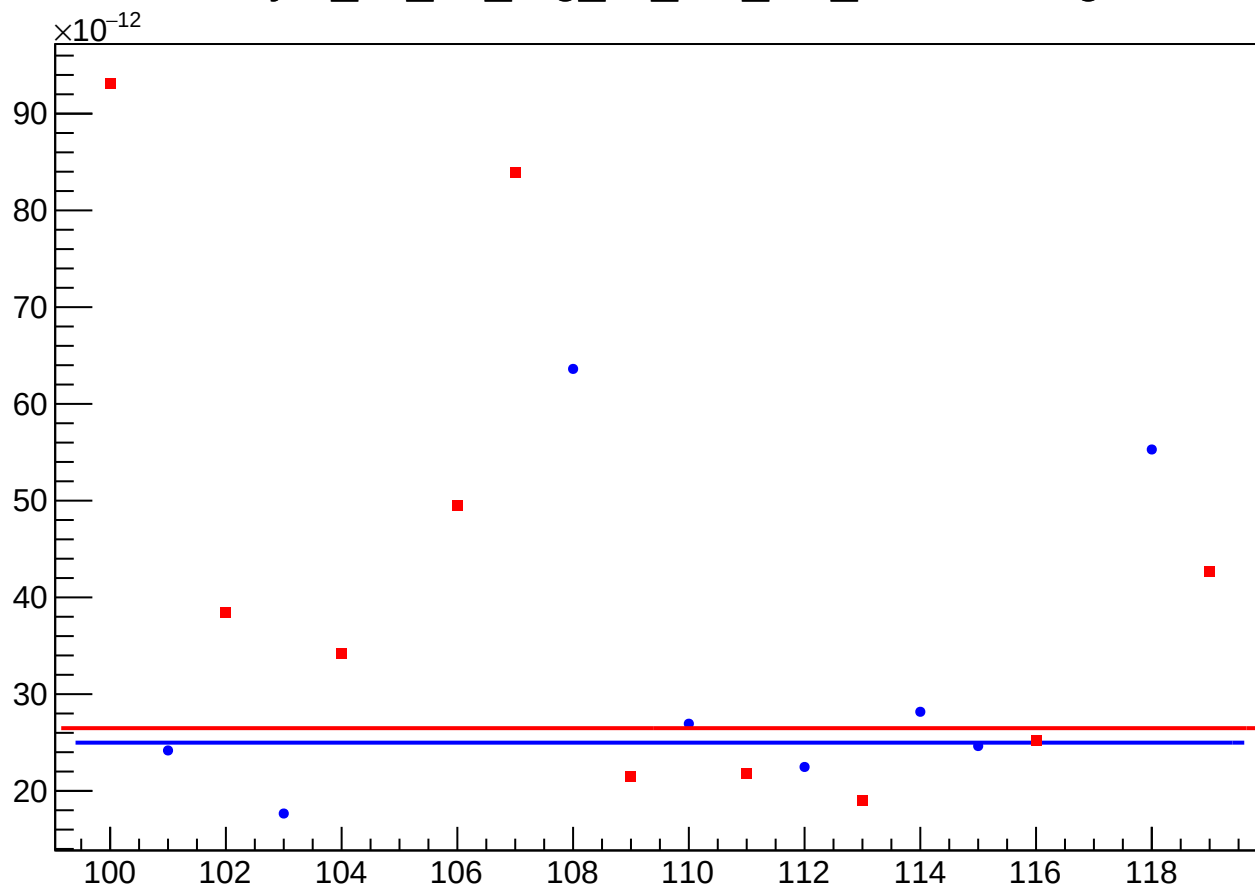
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.7/17

- 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  $\chi^2/\text{NDF}$ : 473404.3/7

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 672872.9/9

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

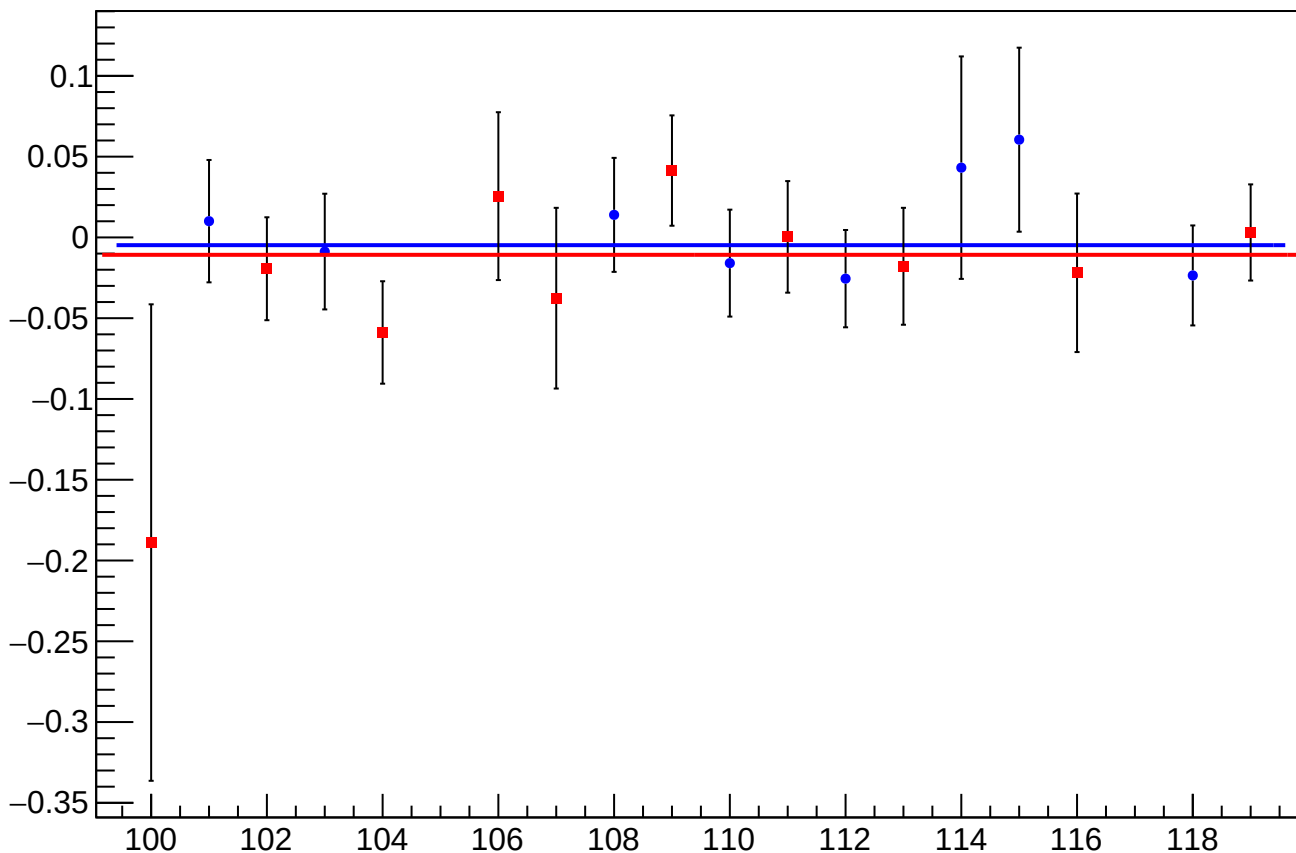
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1153171.6/17

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



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



Right In: -0.005 $\pm$ 0.013  $\chi^2$ /NDF: 3.2/7

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

Right Out: -0.011 $\pm$ 0.012  $\chi^2$ /NDF: 7.3/9

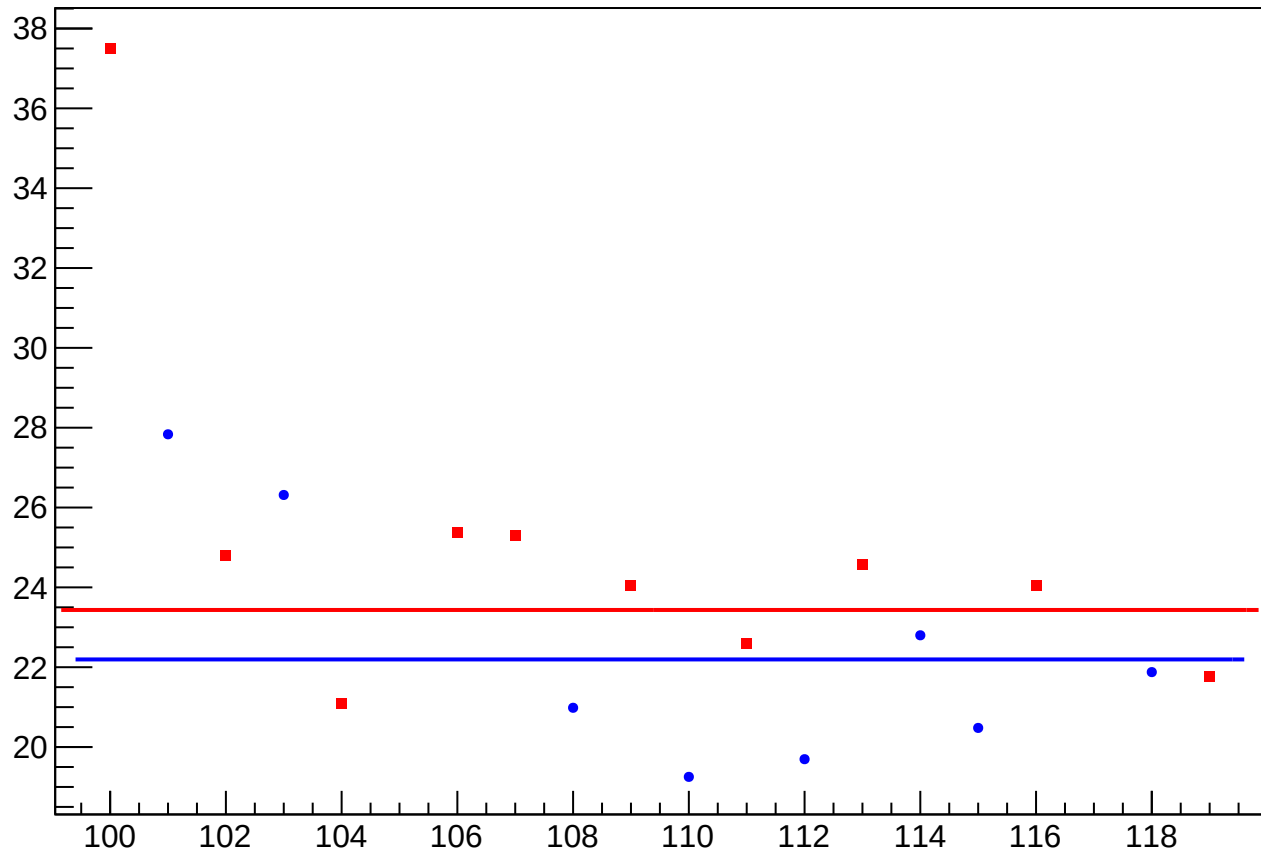
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.008 $\pm$ 0.009  $\chi^2$ /NDF: 10.6/17

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

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



Right In: 22.195+/-0.009  $\chi^2/\text{NDF}$ : 104922.7/7

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

Right Out: 23.434+/-0.009  $\chi^2/\text{NDF}$ : 48337.7/9

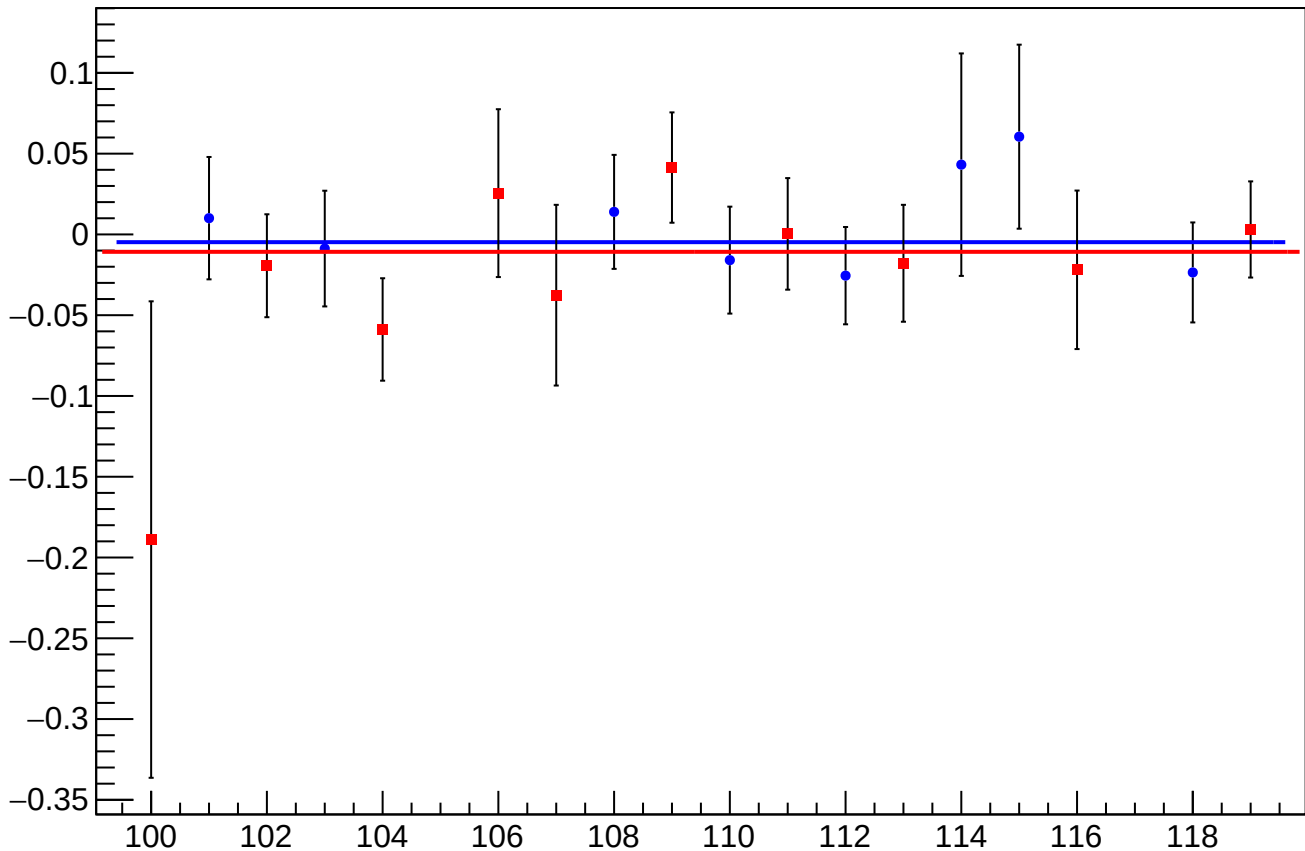
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 22.857+/-0.006  $\chi^2/\text{NDF}$ : 162873.3/17

- 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:  $-0.005 \pm 0.013$   $\chi^2/\text{NDF}$ : 3.2/7

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

Right Out:  $-0.011 \pm 0.012$   $\chi^2/\text{NDF}$ : 7.3/9

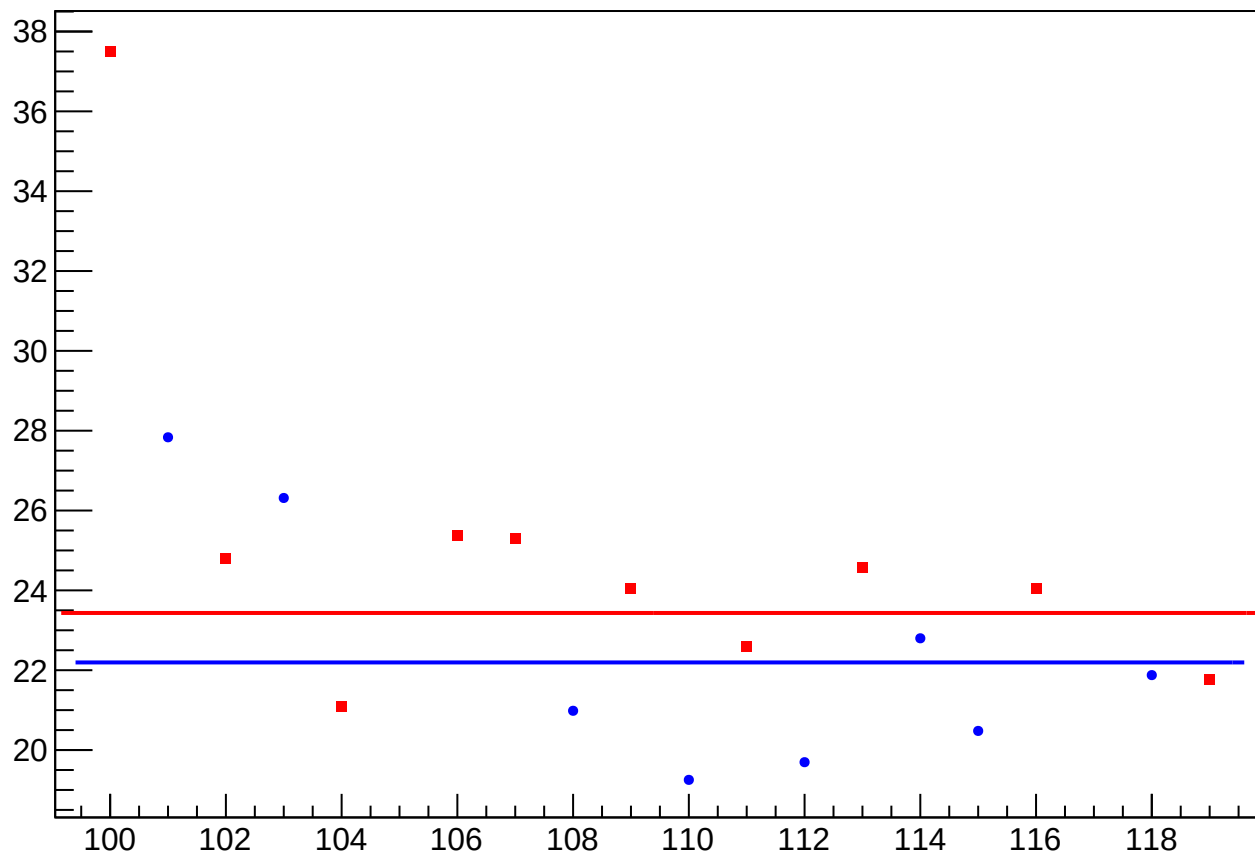
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.008 \pm 0.009$   $\chi^2/\text{NDF}$ : 10.6/17

- 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: 22.195+/-0.009  $\chi^2/\text{NDF}$ : 104922.7/7

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

Right Out: 23.434+/-0.009  $\chi^2/\text{NDF}$ : 48337.7/9

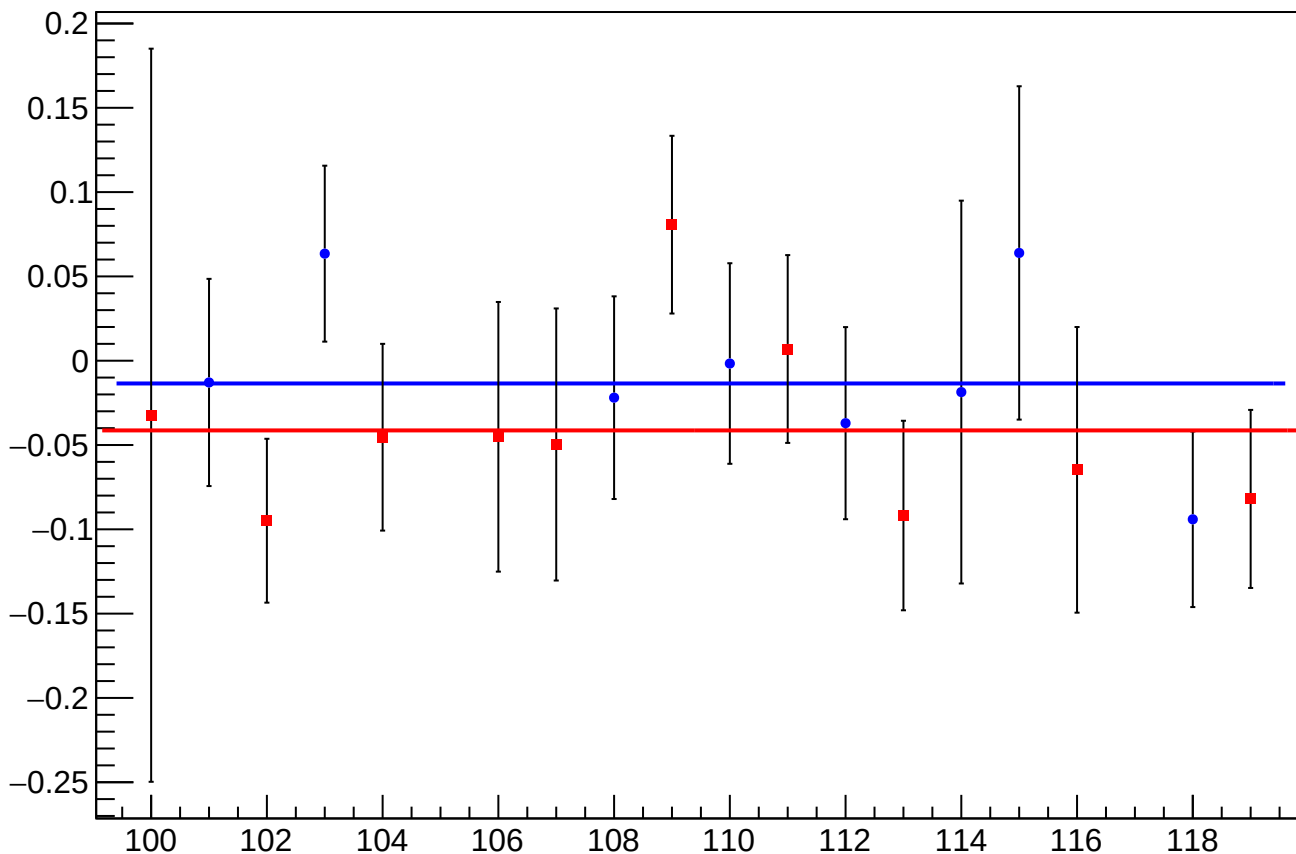
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 22.857+/-0.006  $\chi^2/\text{NDF}$ : 162873.3/17

- 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: -0.013±/0.022  $\chi^2/\text{NDF}$ : 5.4/7

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

Right Out: -0.041±/0.020  $\chi^2/\text{NDF}$ : 8.8/9

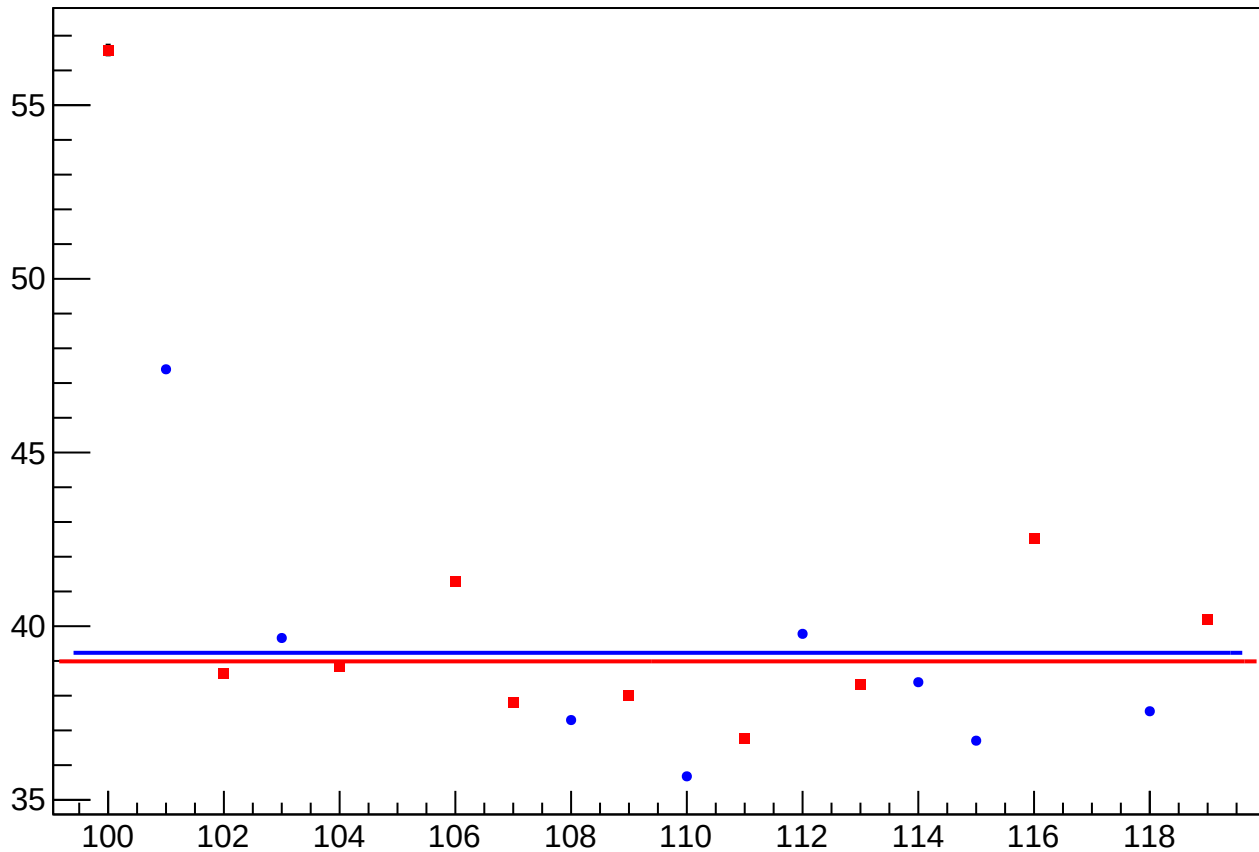
Left In: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.029±/0.015  $\chi^2/\text{NDF}$ : 15.1/17

- 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: 39.234 $\pm$ 0.016  $\chi^2$ /NDF: 48342.1/7

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

Right Out: 38.987 $\pm$ 0.014  $\chi^2$ /NDF: 23997.9/9

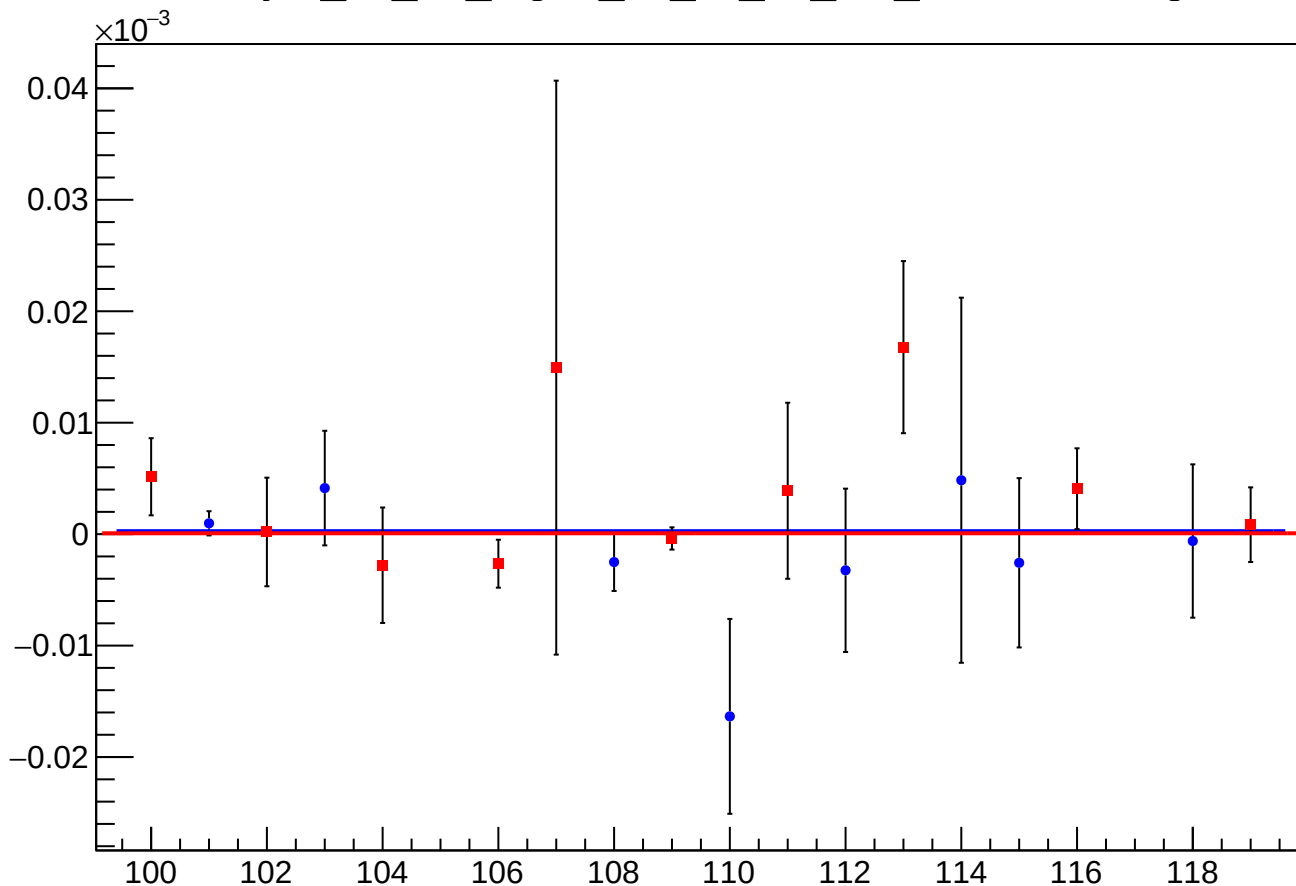
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 39.097 $\pm$ 0.010  $\chi^2$ /NDF: 72479.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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: 6.2/7

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

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.8/9

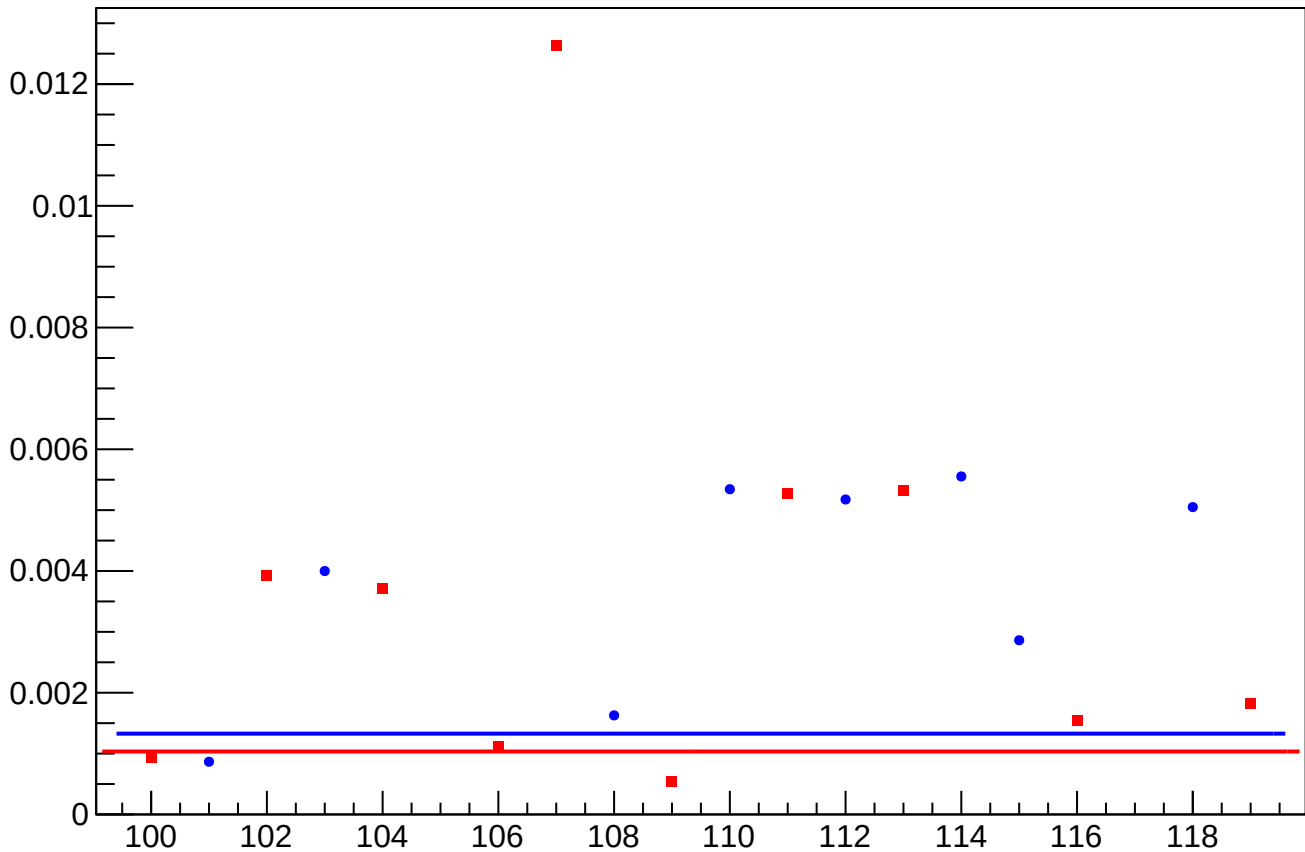
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.0/17

- 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  $\chi^2/\text{NDF}$ : 2701694.2/7

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

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3482326.3/9

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

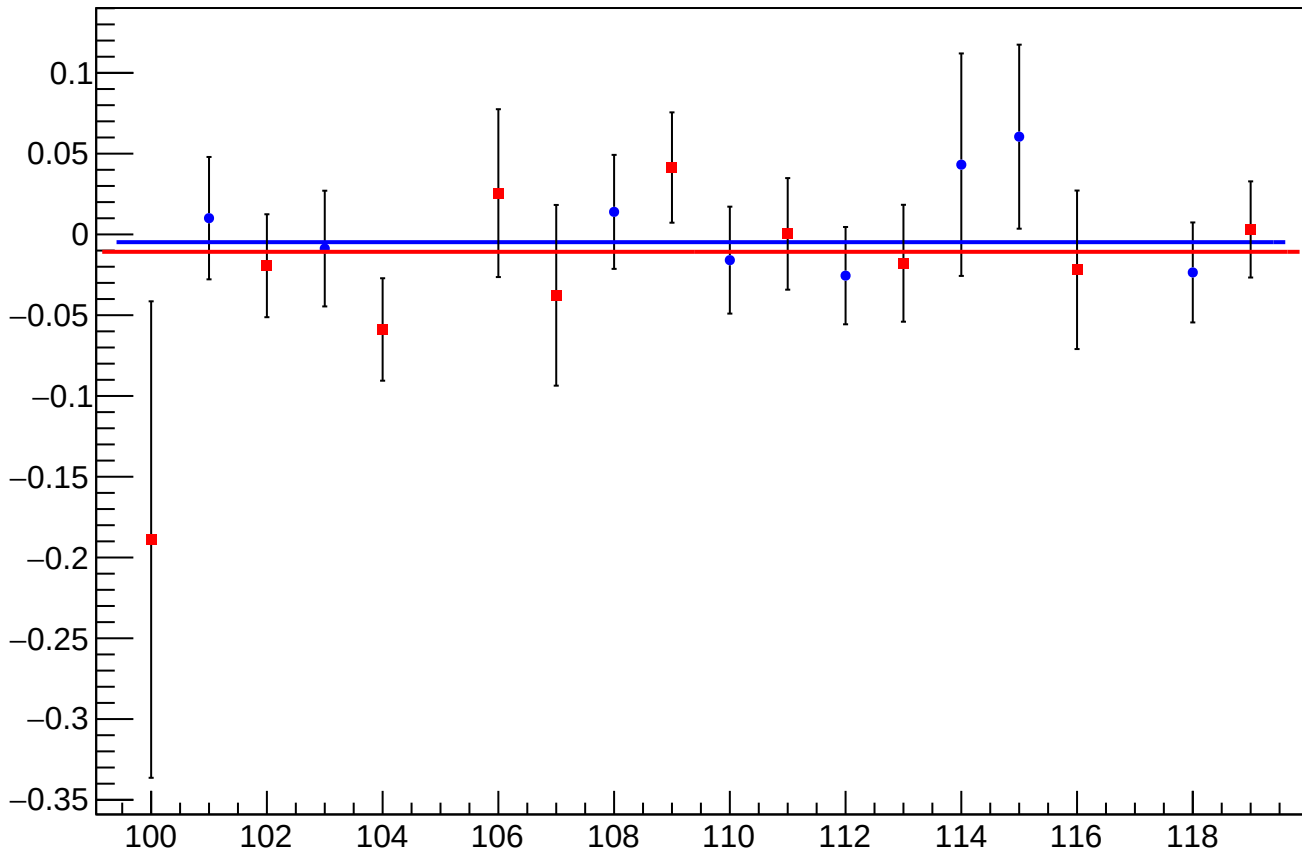
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 6296174.5/17

- 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:  $-0.005 \pm 0.013$   $\chi^2/\text{NDF}$ : 3.2/7

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

Right Out:  $-0.011 \pm 0.012$   $\chi^2/\text{NDF}$ : 7.3/9

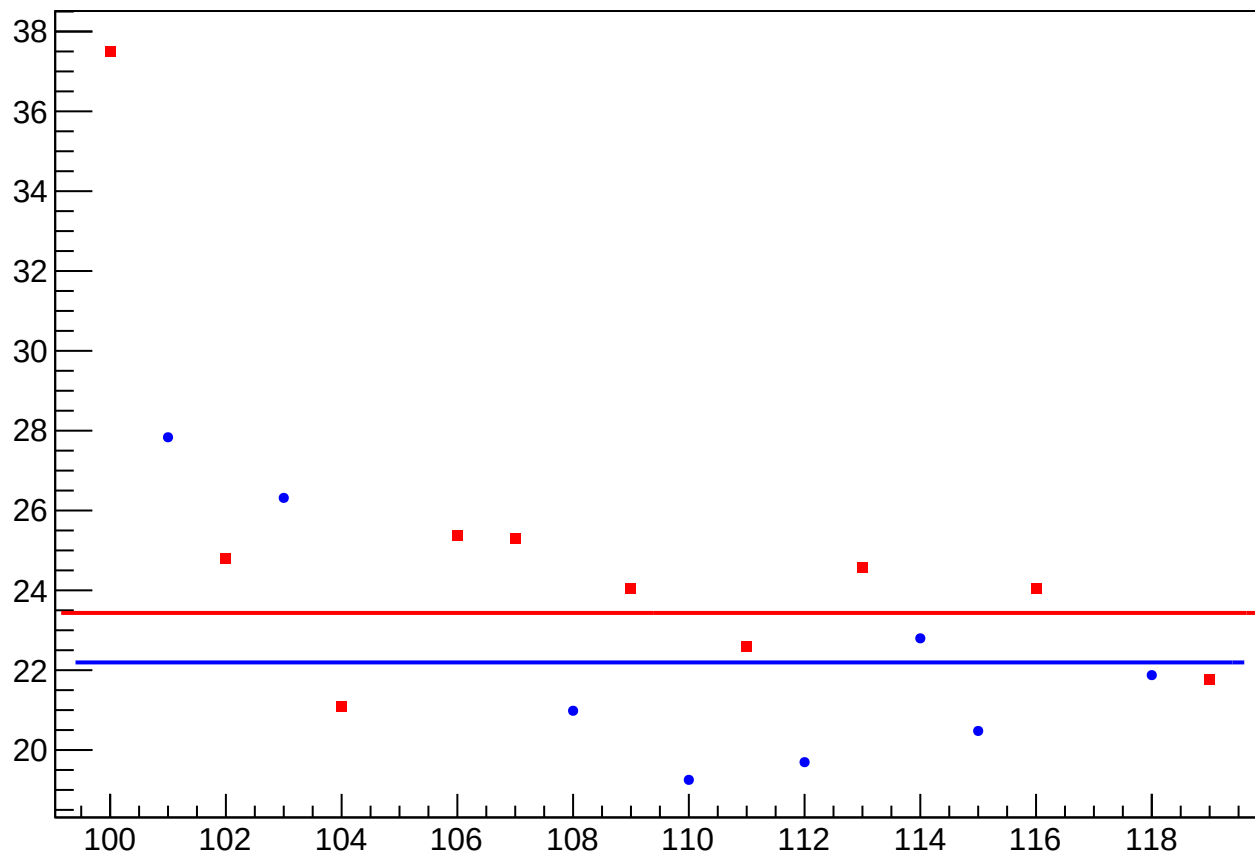
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.008 \pm 0.009$   $\chi^2/\text{NDF}$ : 10.6/17

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

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



Right In: 22.194+/-0.009  $\chi^2/\text{NDF}$ : 104959.7/7

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

Right Out: 23.434+/-0.009  $\chi^2/\text{NDF}$ : 48339.8/9

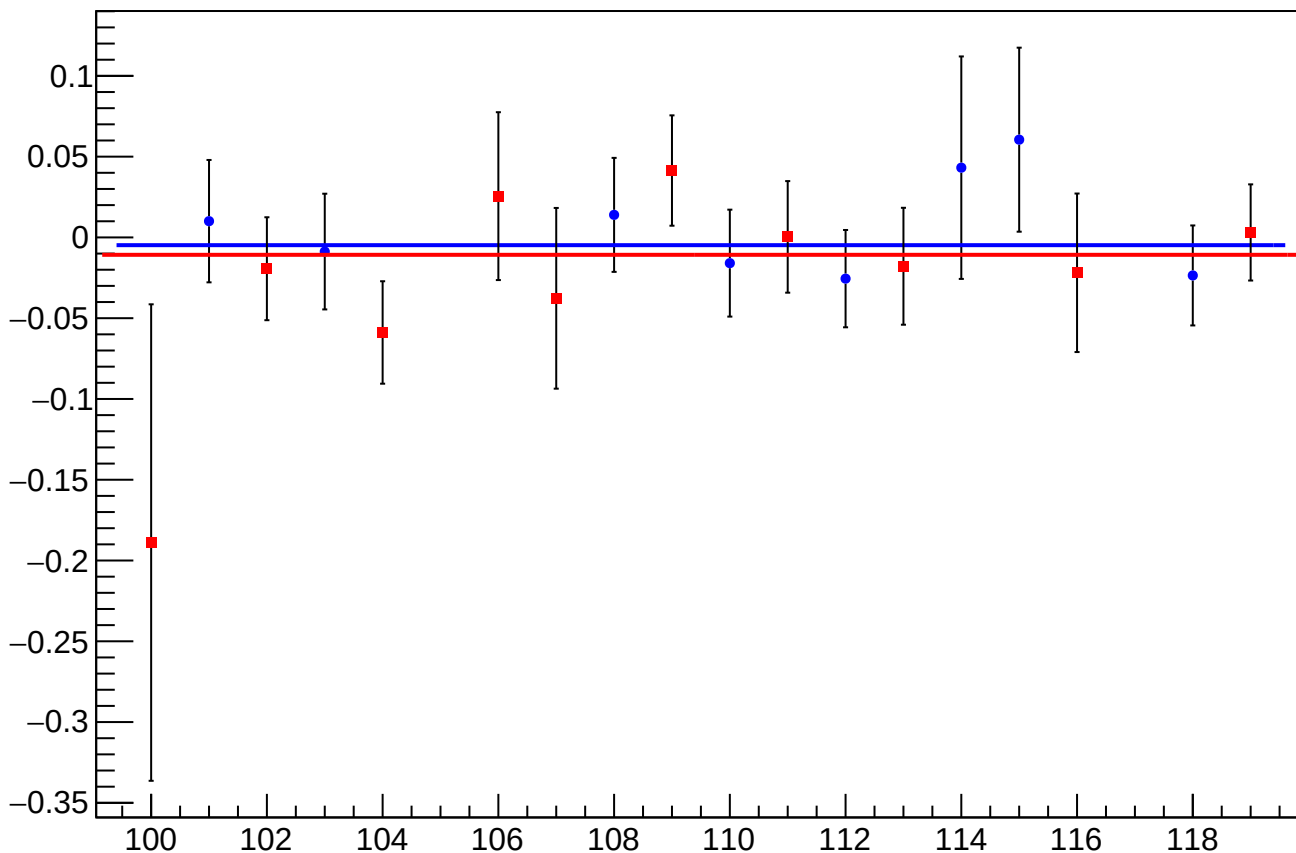
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 22.857+/-0.006  $\chi^2/\text{NDF}$ : 162920.7/17

- 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: -0.005±/0.013  $\chi^2$ /NDF: 3.2/7

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

Right Out: -0.011±/0.012  $\chi^2$ /NDF: 7.3/9

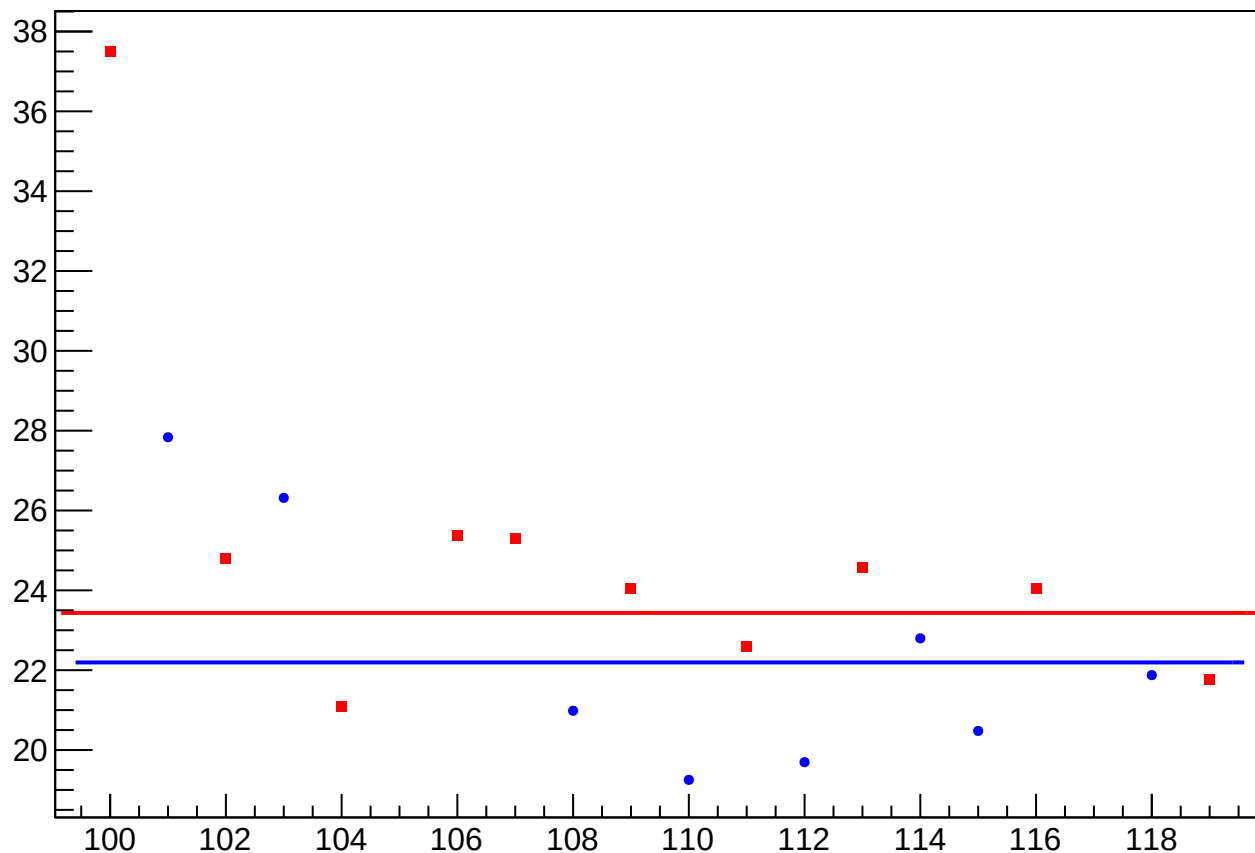
Left In: 0.000±/0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.008±/0.009  $\chi^2$ /NDF: 10.6/17

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

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



Right In: 22.194+/-0.009  $\chi^2/\text{NDF}$ : 104959.7/7

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

Right Out: 23.434+/-0.009  $\chi^2/\text{NDF}$ : 48339.8/9

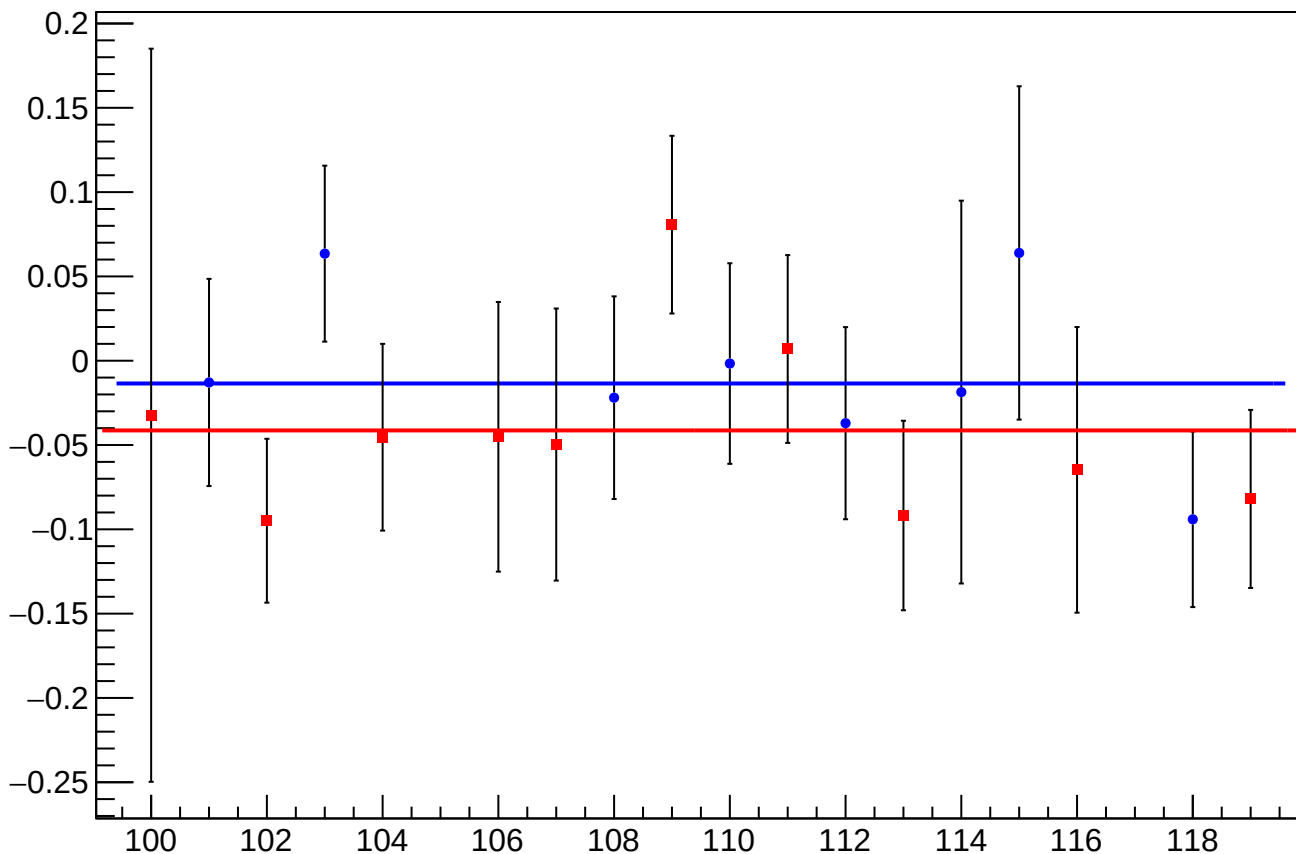
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 22.857+/-0.006  $\chi^2/\text{NDF}$ : 162920.7/17

- 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: -0.014 $\pm$ 0.022  $\chi^2$ /NDF: 5.4/7

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

Right Out: -0.041 $\pm$ 0.020  $\chi^2$ /NDF: 8.8/9

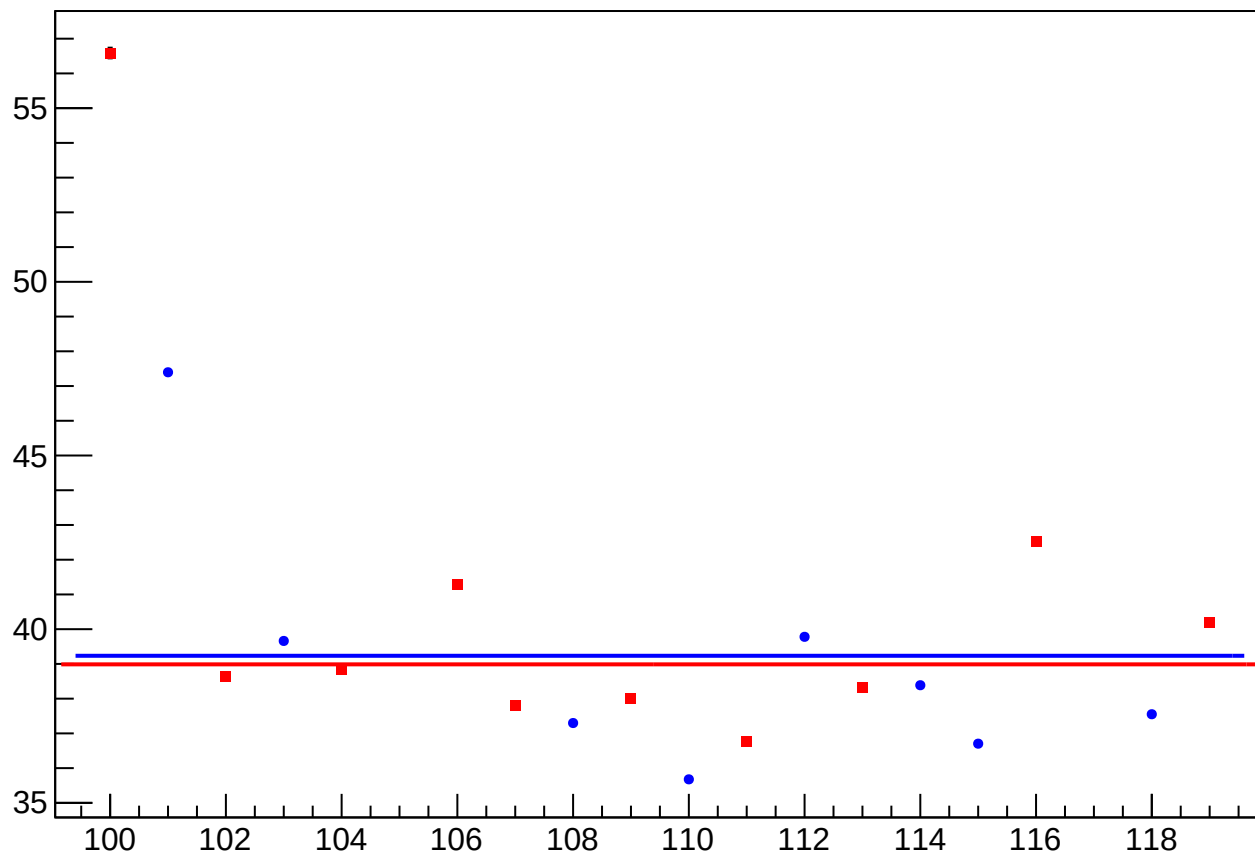
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.029 $\pm$ 0.015  $\chi^2$ /NDF: 15.1/17

- 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: 39.234+/-0.016  $\chi^2/\text{NDF}$ : 48347.1/7

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

Right Out: 38.987+/-0.014  $\chi^2/\text{NDF}$ : 23997.1/9

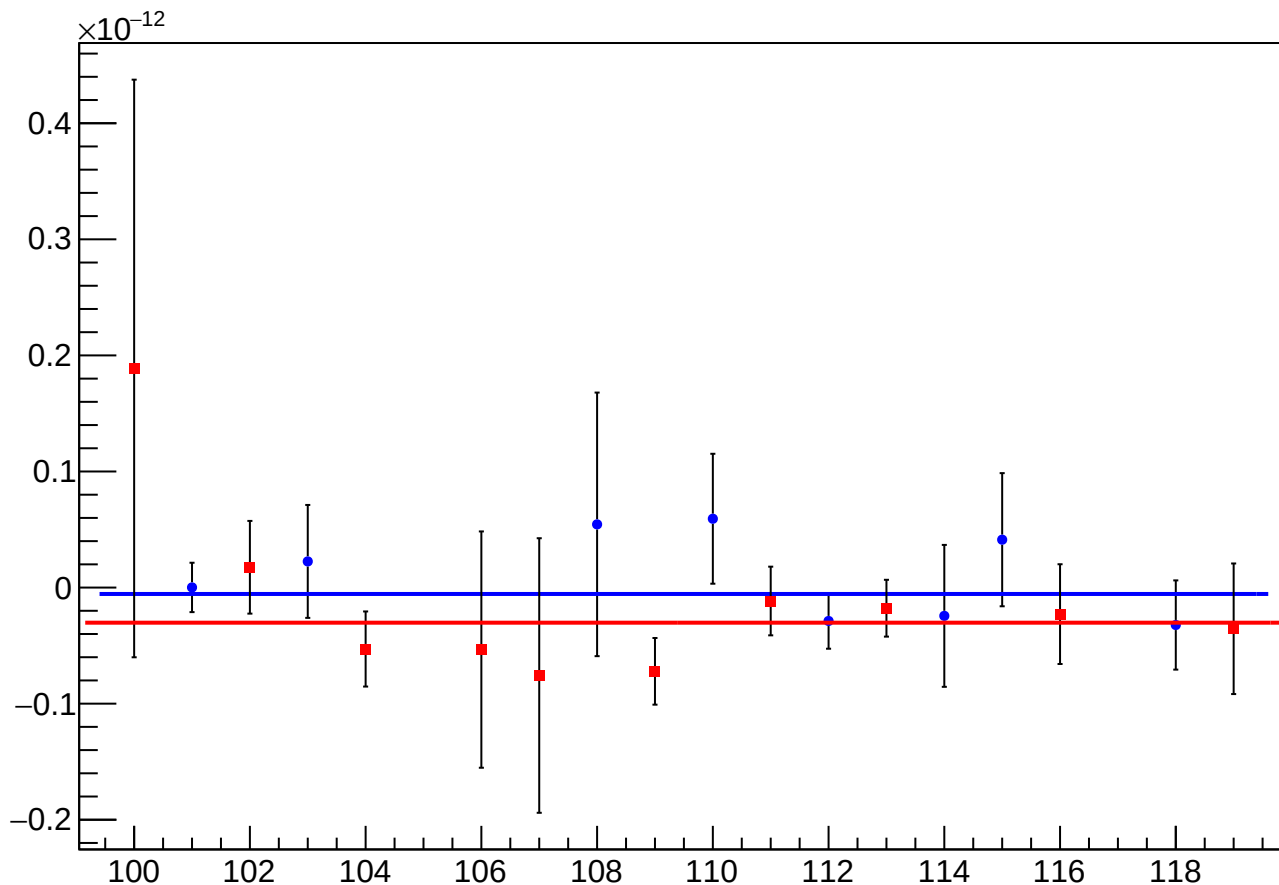
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 39.097+/-0.010  $\chi^2/\text{NDF}$ : 72483.4/17

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

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



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.2/7

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

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.7/9

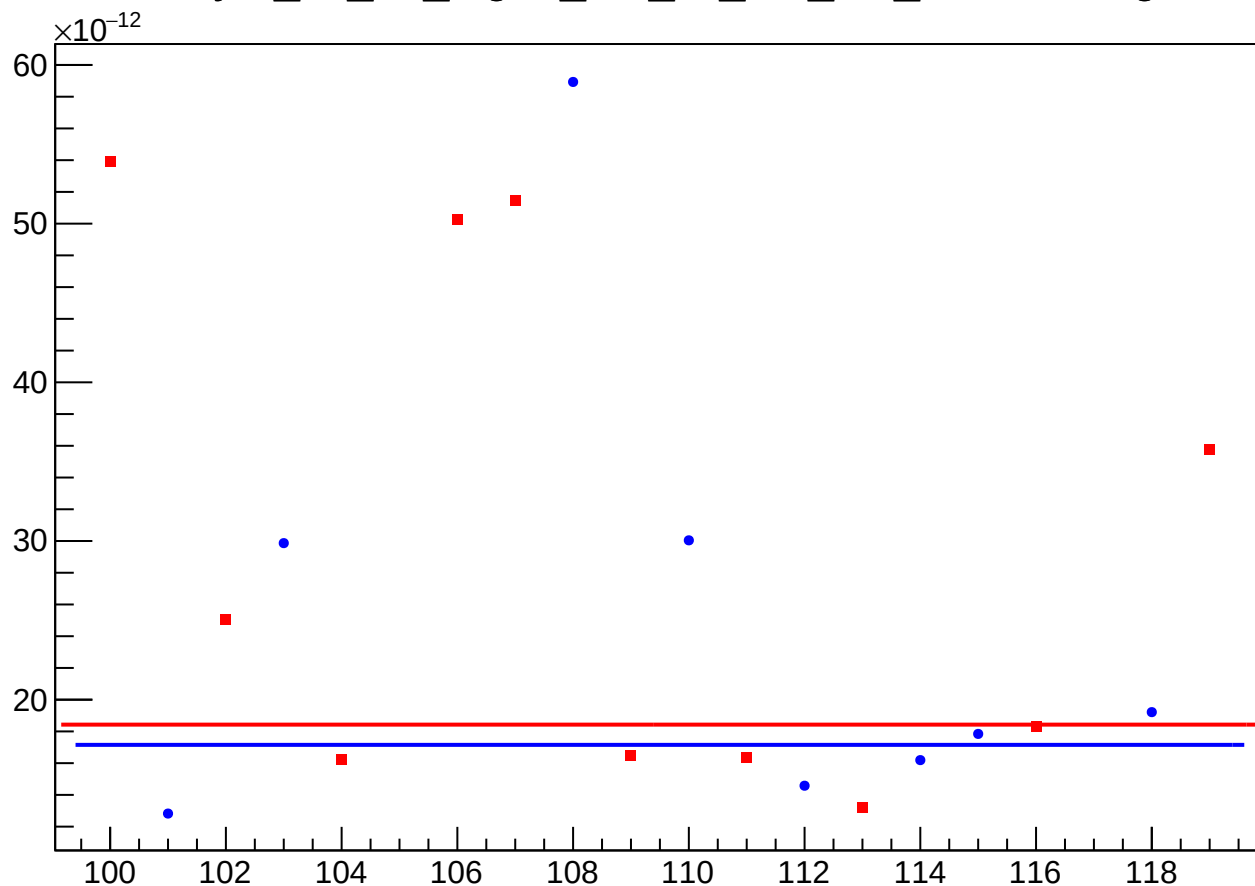
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.9/17

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

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



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 626211.9/7

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 757215.9/9

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

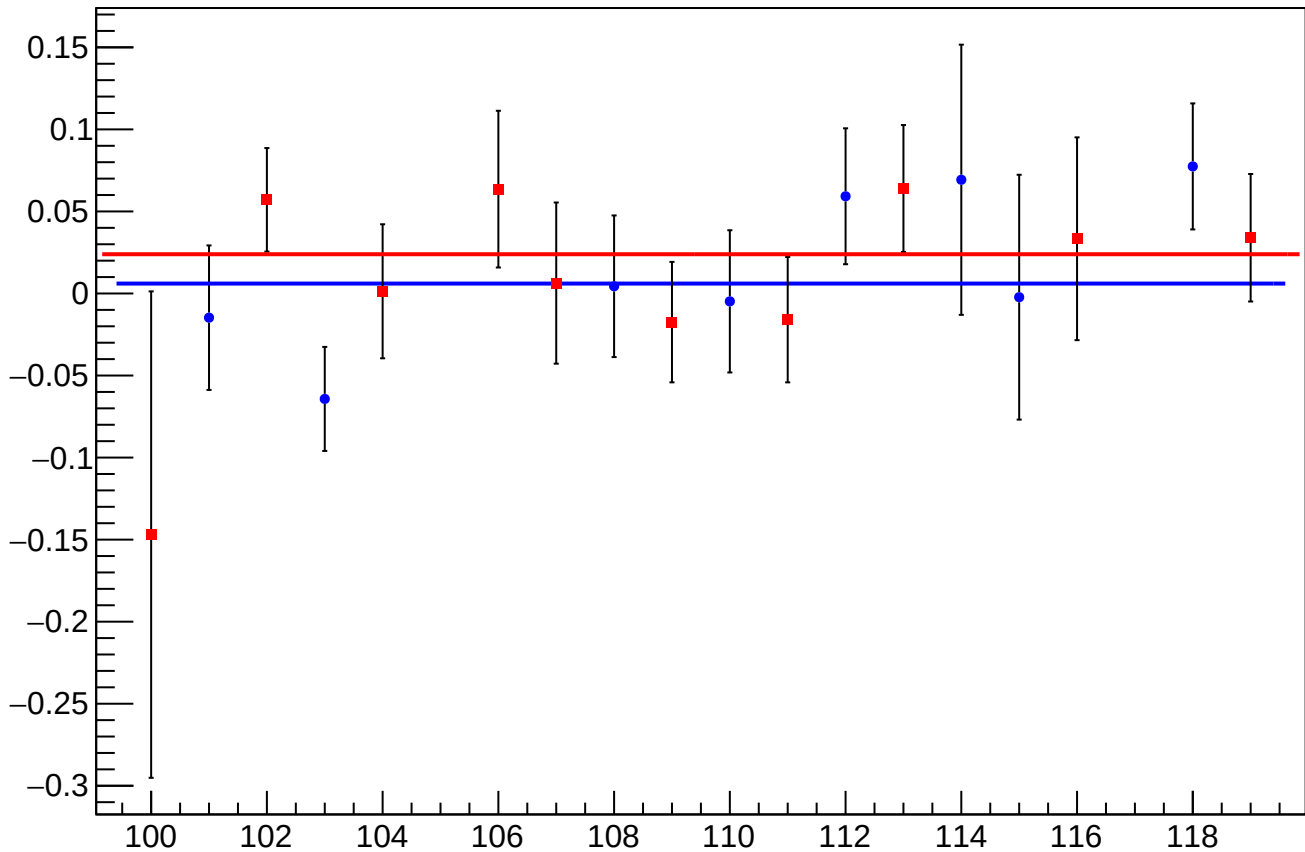
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1393712.6/17

- 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: 0.006 $\pm$ 0.015  $\chi^2$ /NDF: 10.9/7

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

Right Out: 0.024 $\pm$ 0.013  $\chi^2$ /NDF: 7.1/9

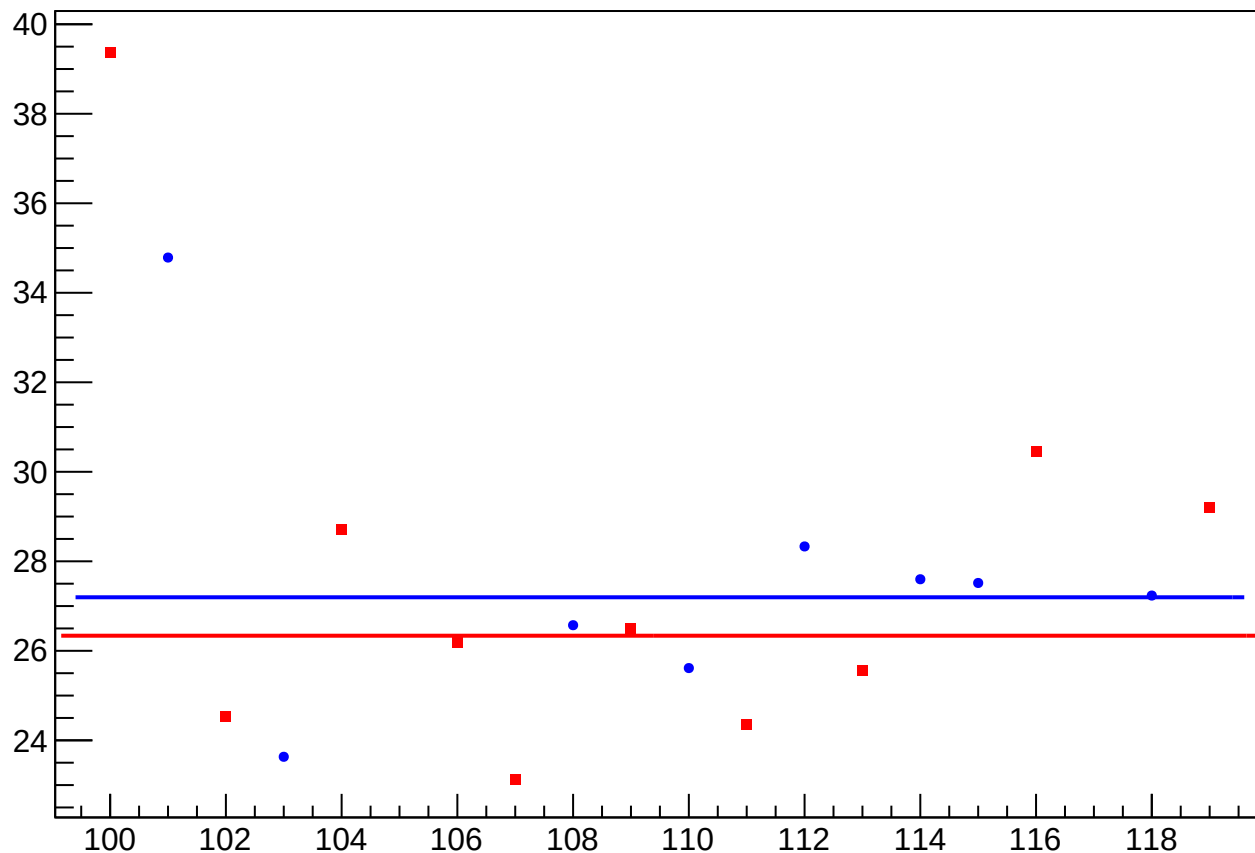
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.016 $\pm$ 0.010  $\chi^2$ /NDF: 18.8/17

- 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: 27.196+/-0.011  $\chi^2/\text{NDF}$ : 89388.2/7

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

Right Out: 26.338+/-0.010  $\chi^2/\text{NDF}$ : 63200.9/9

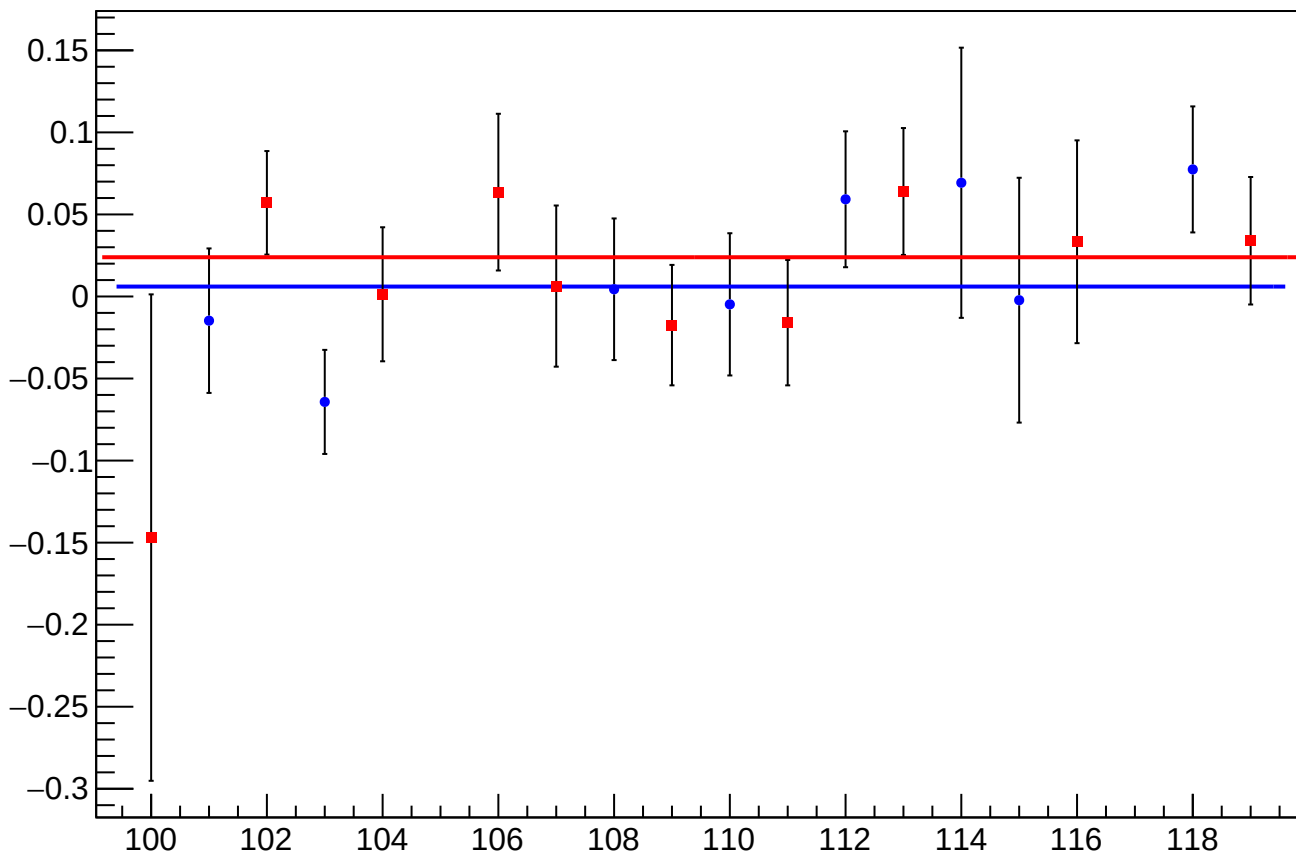
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 26.707+/-0.007  $\chi^2/\text{NDF}$ : 156092.6/17

- 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: 0.006 $\pm$ 0.015  $\chi^2$ /NDF: 10.9/7

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

Right Out: 0.024 $\pm$ 0.013  $\chi^2$ /NDF: 7.1/9

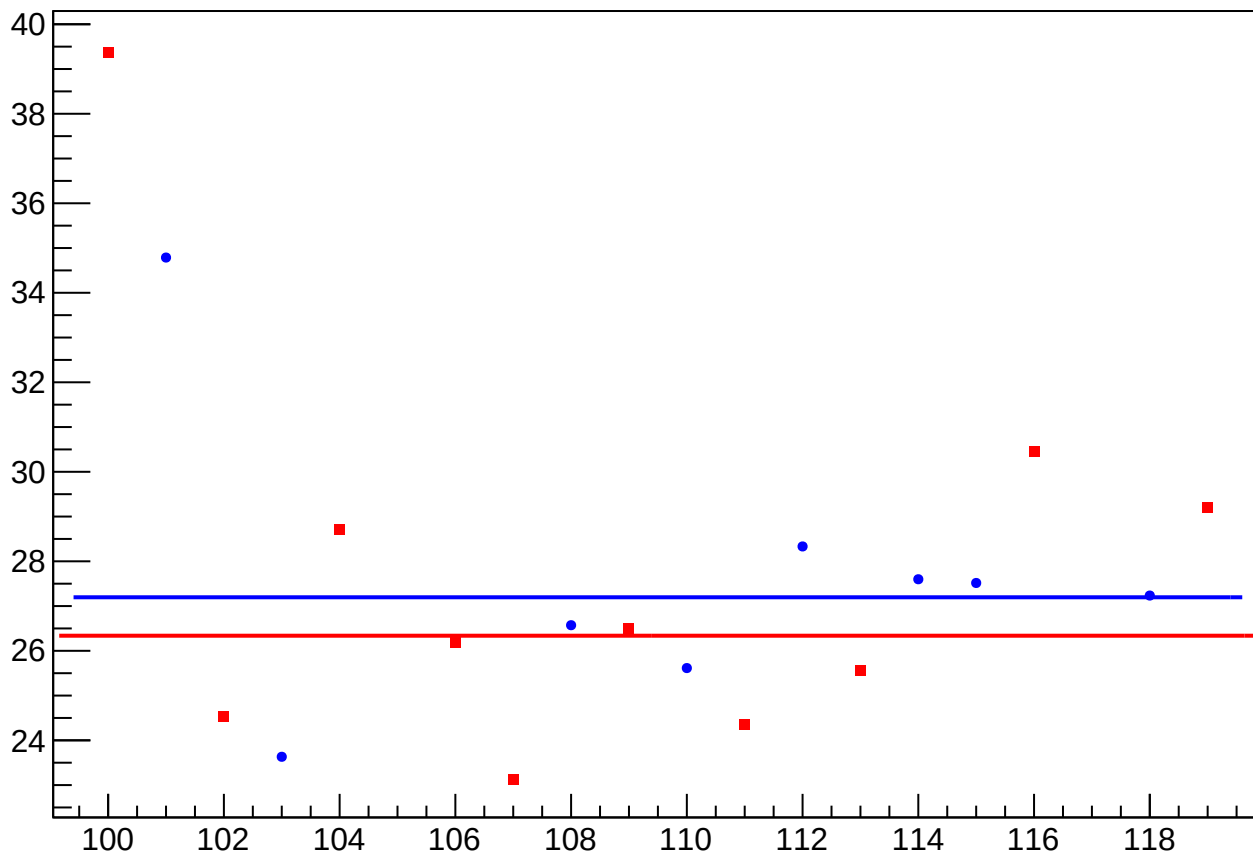
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.016 $\pm$ 0.010  $\chi^2$ /NDF: 18.8/17

- 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: 27.196+/-0.011  $\chi^2/\text{NDF}$ : 89388.2/7

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

Right Out: 26.338+/-0.010  $\chi^2/\text{NDF}$ : 63200.9/9

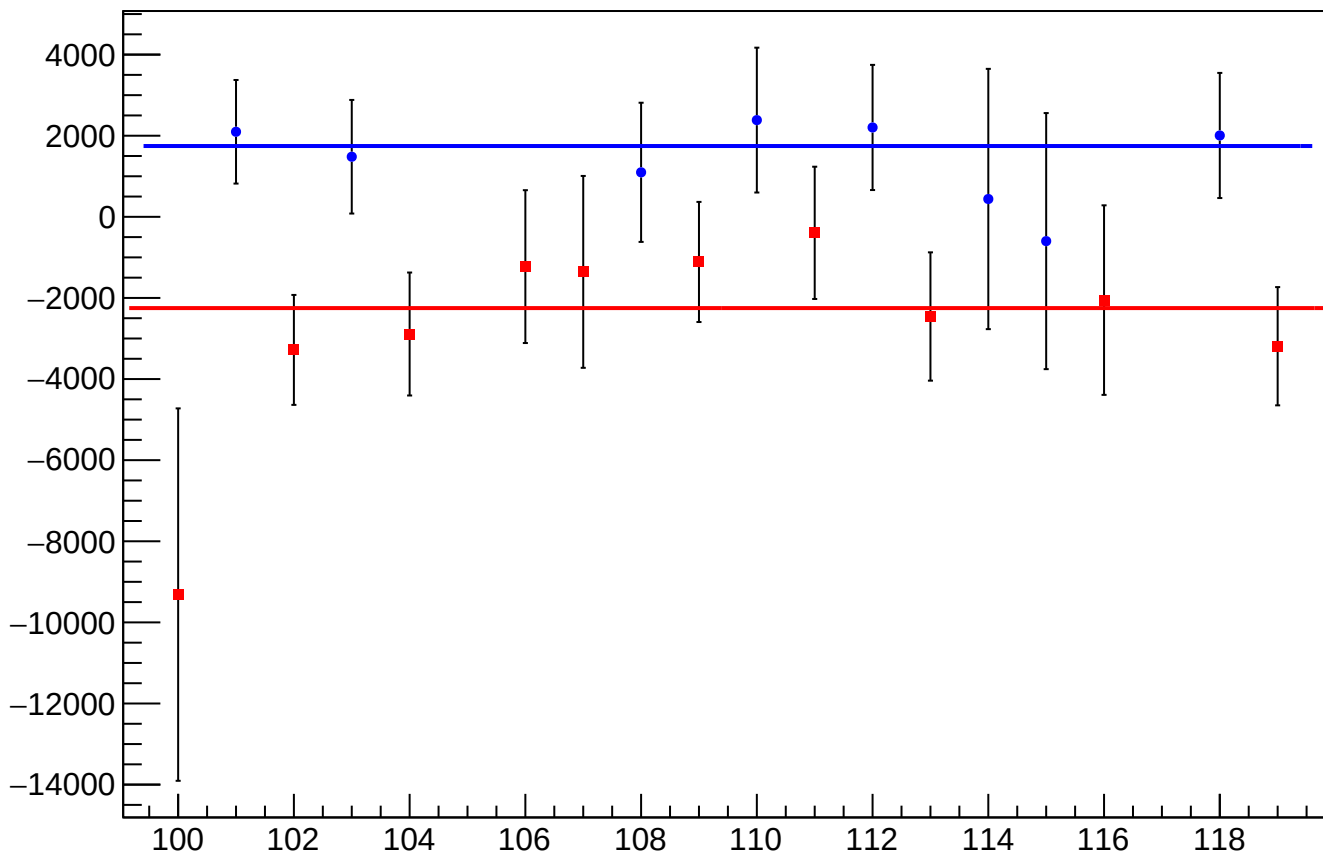
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 26.707+/-0.007  $\chi^2/\text{NDF}$ : 156092.6/17

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

# reg\_asym\_usl\_mean vs Slug



Right In: 1745.988 $\pm$ 596.159  $\chi^2$ /NDF: 1.2/7

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

Right Out: -2250.134 $\pm$ 544.540  $\chi^2$ /NDF: 5.9/9

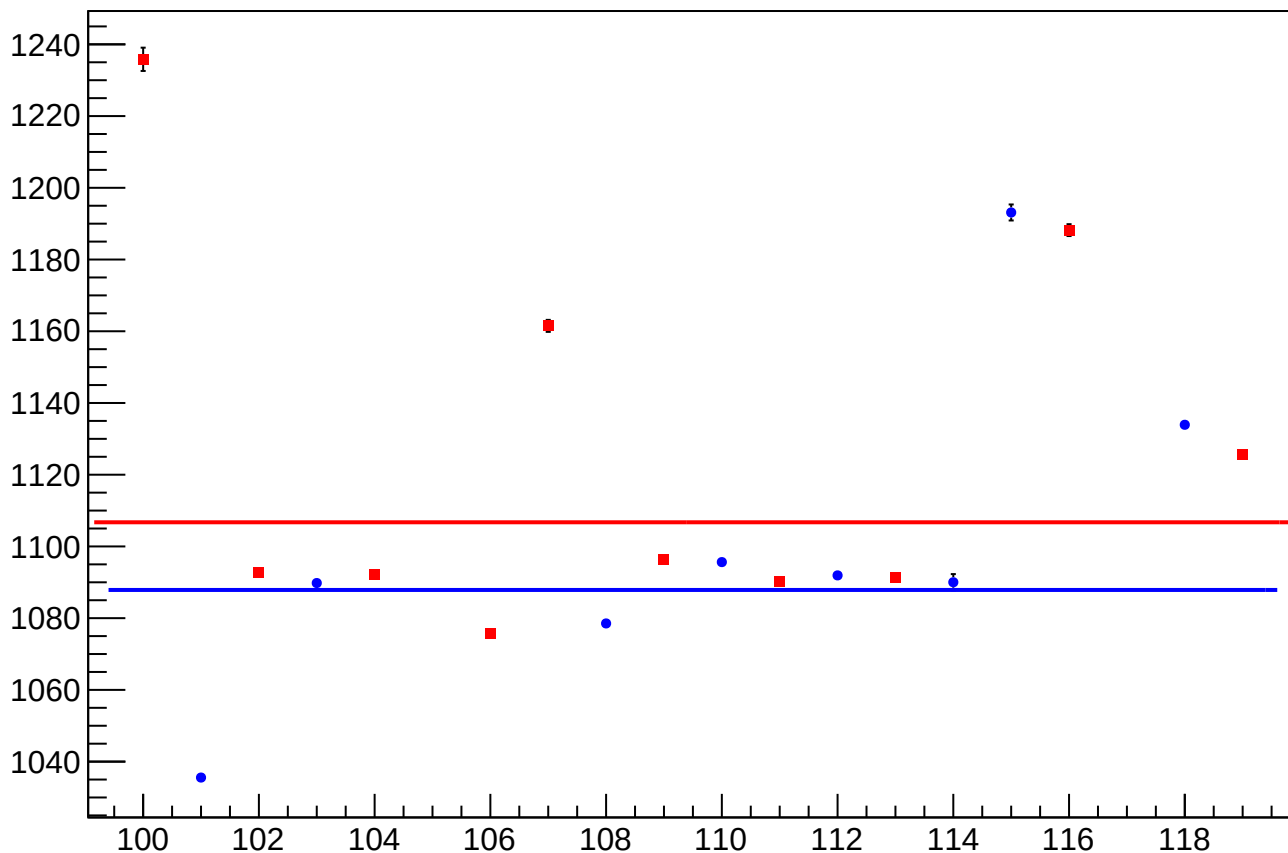
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -432.538 $\pm$ 402.061  $\chi^2$ /NDF: 31.6/17

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

# reg\_asym\_usl\_rms vs Slug



Right In: 1087.864+/-0.422  $\chi^2/\text{NDF}$ : 7476.7/7

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

Right Out: 1106.734+/-0.385  $\chi^2/\text{NDF}$ : 6847.1/9

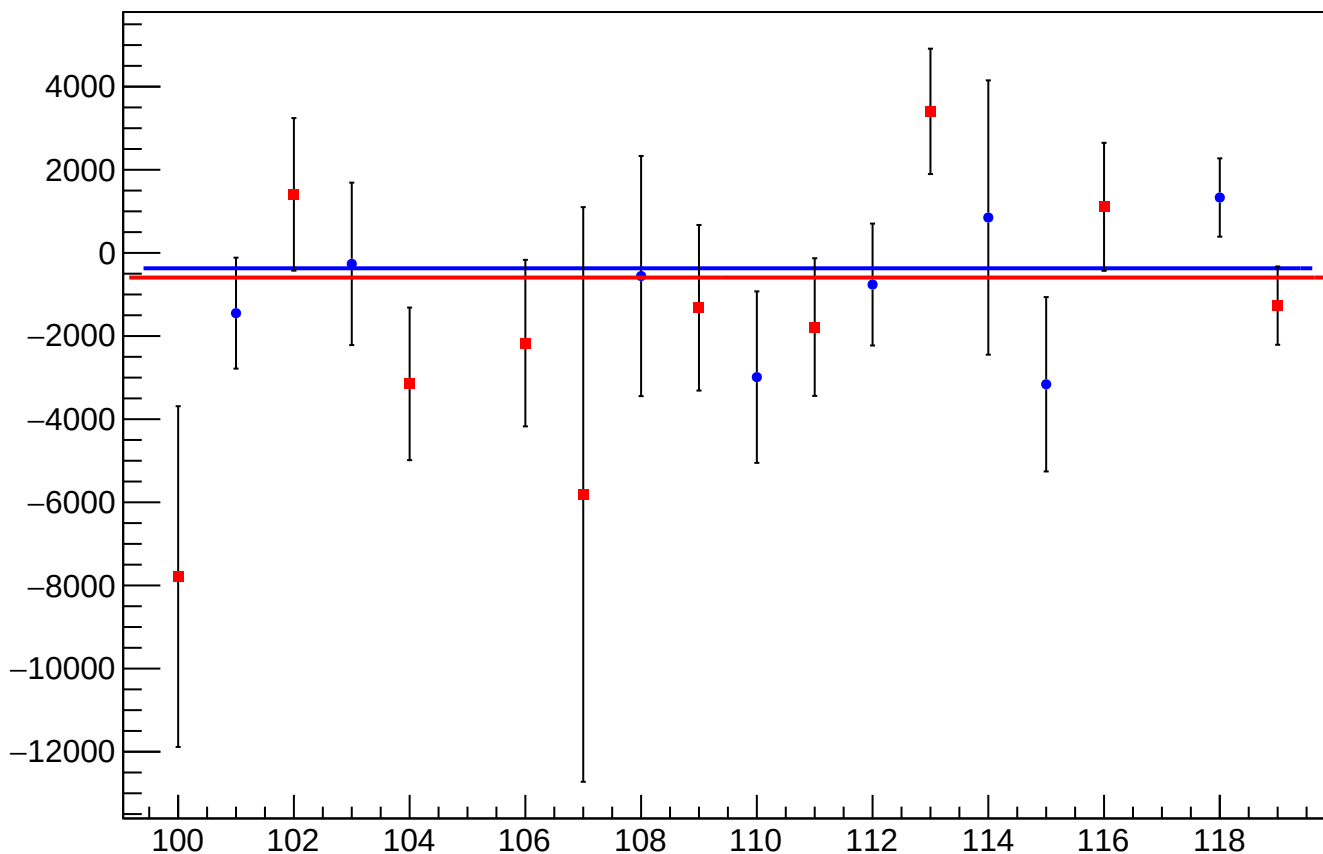
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1098.151+/-0.284  $\chi^2/\text{NDF}$ : 15416.2/17

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

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



Right In: -369.907 $\pm$ 568.935  $\chi^2$ /NDF: 7.5/7

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

Right Out: -592.773 $\pm$ 532.246  $\chi^2$ /NDF: 16.8/9

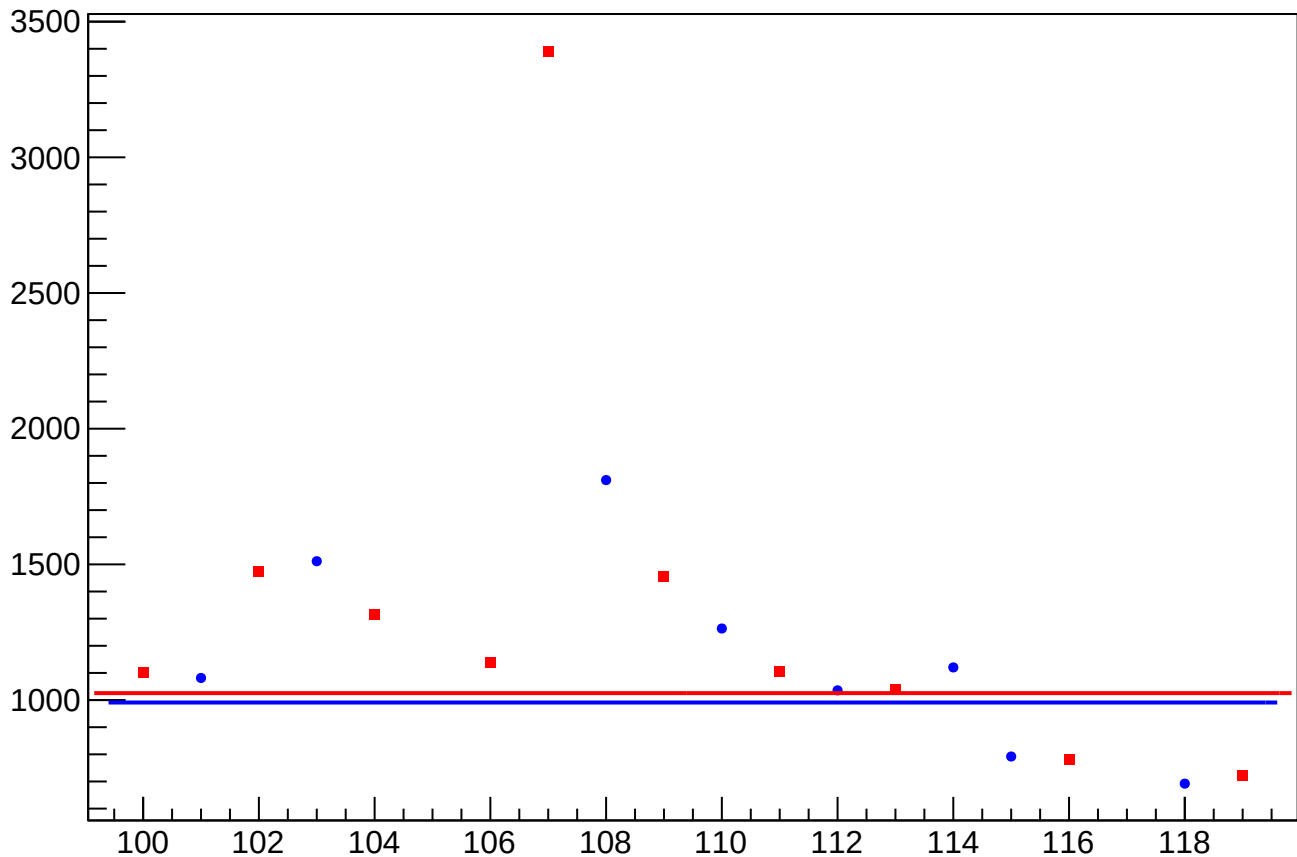
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -488.757 $\pm$ 388.678  $\chi^2$ /NDF: 24.4/17

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

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



Right In: 990.986+/-0.402  $\chi^2/\text{NDF}$ : 571444.4/7

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

Right Out: 1025.625+/-0.376  $\chi^2/\text{NDF}$ : 766080.2/9

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

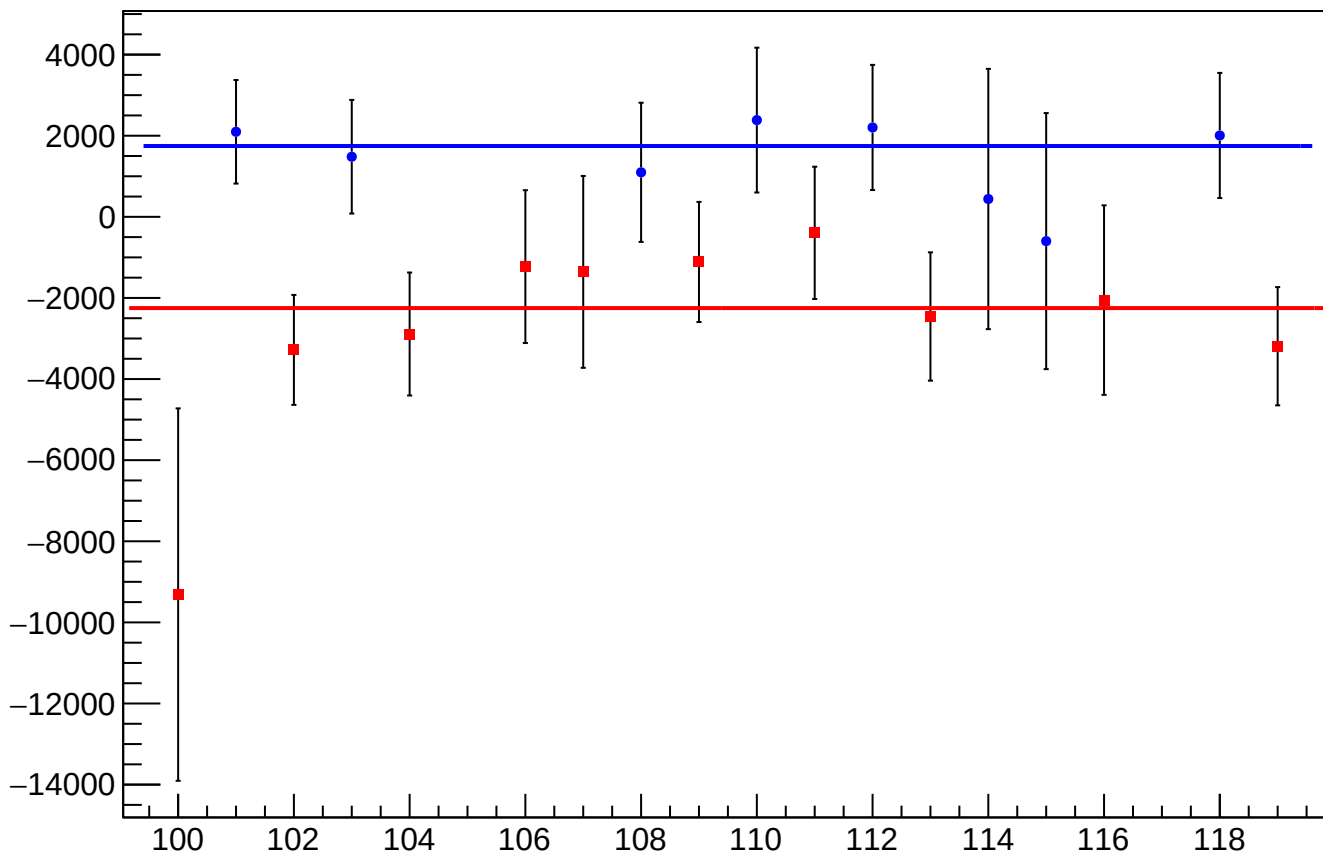
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1009.458+/-0.275  $\chi^2/\text{NDF}$ : 1341478.1/17

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



# cor\_asym\_usl\_mean vs Slug



Right In: 1745.988 $\pm$ 596.159  $\chi^2$ /NDF: 1.2/7

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

Right Out: -2250.134 $\pm$ 544.540  $\chi^2$ /NDF: 5.9/9

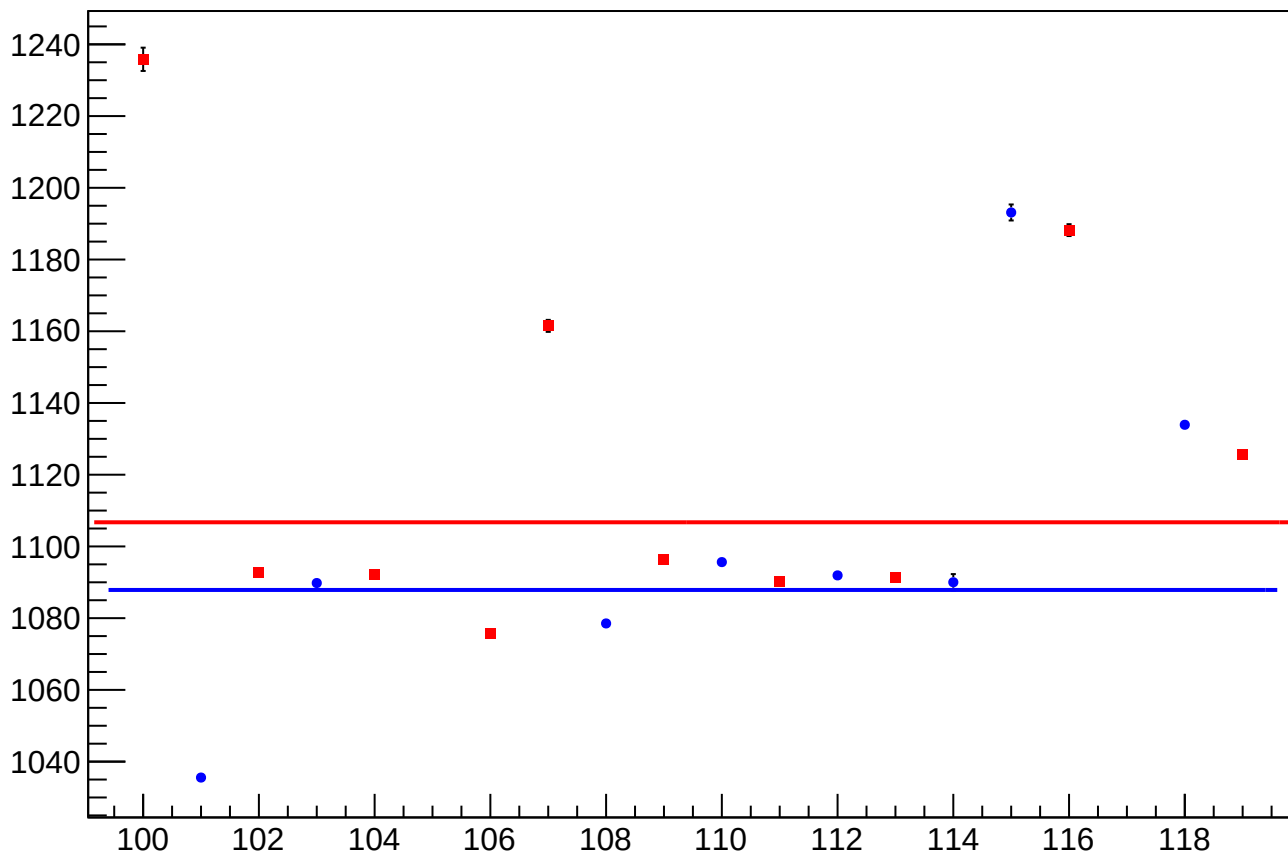
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -432.538 $\pm$ 402.061  $\chi^2$ /NDF: 31.6/17

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

# cor\_asym\_usl\_rms vs Slug



Right In: 1087.864+/-0.422  $\chi^2/\text{NDF}$ : 7476.7/7

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

Right Out: 1106.734+/-0.385  $\chi^2/\text{NDF}$ : 6847.1/9

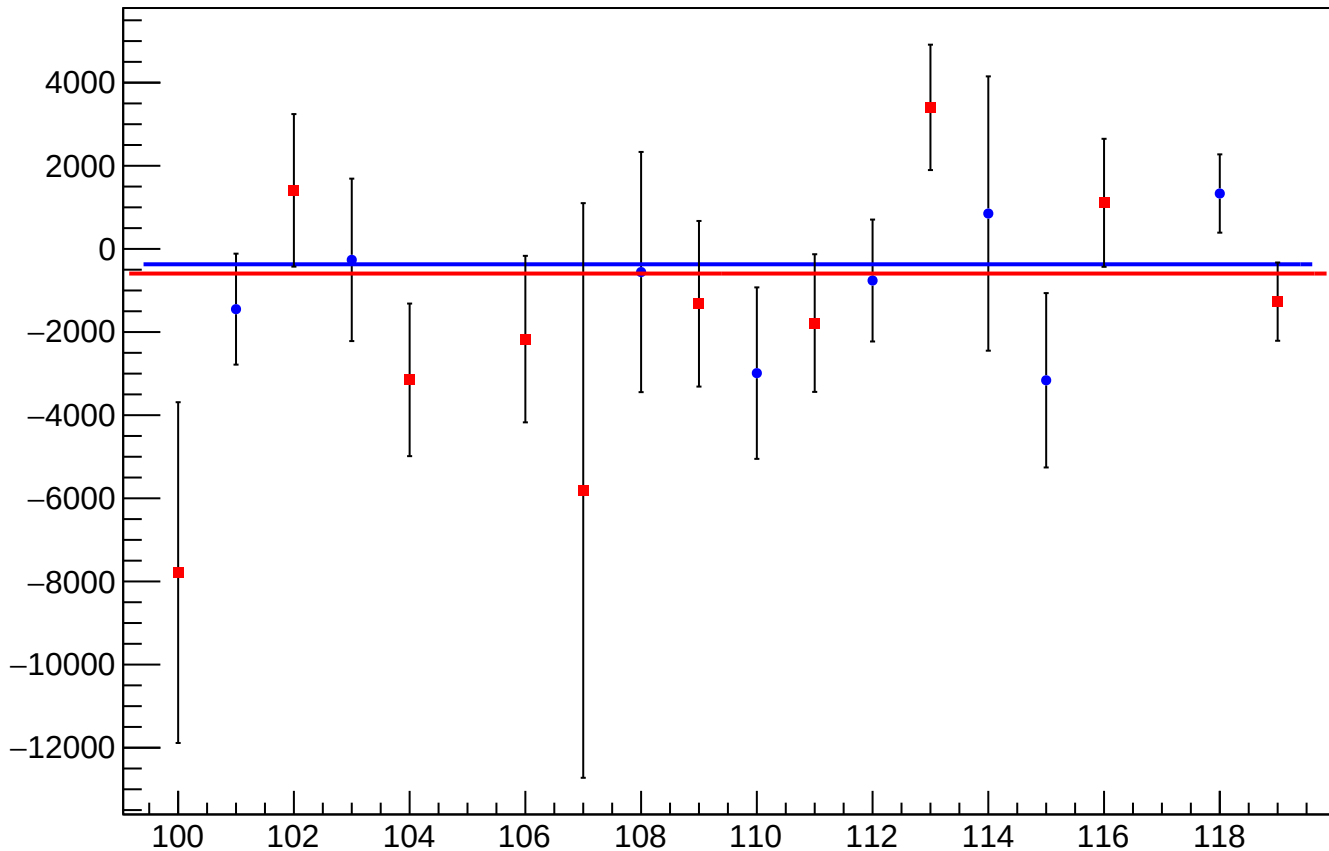
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1098.151+/-0.284  $\chi^2/\text{NDF}$ : 15416.2/17

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

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



Right In: -369.907 $\pm$ 568.935  $\chi^2$ /NDF: 7.5/7

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

Right Out: -592.773 $\pm$ 532.246  $\chi^2$ /NDF: 16.8/9

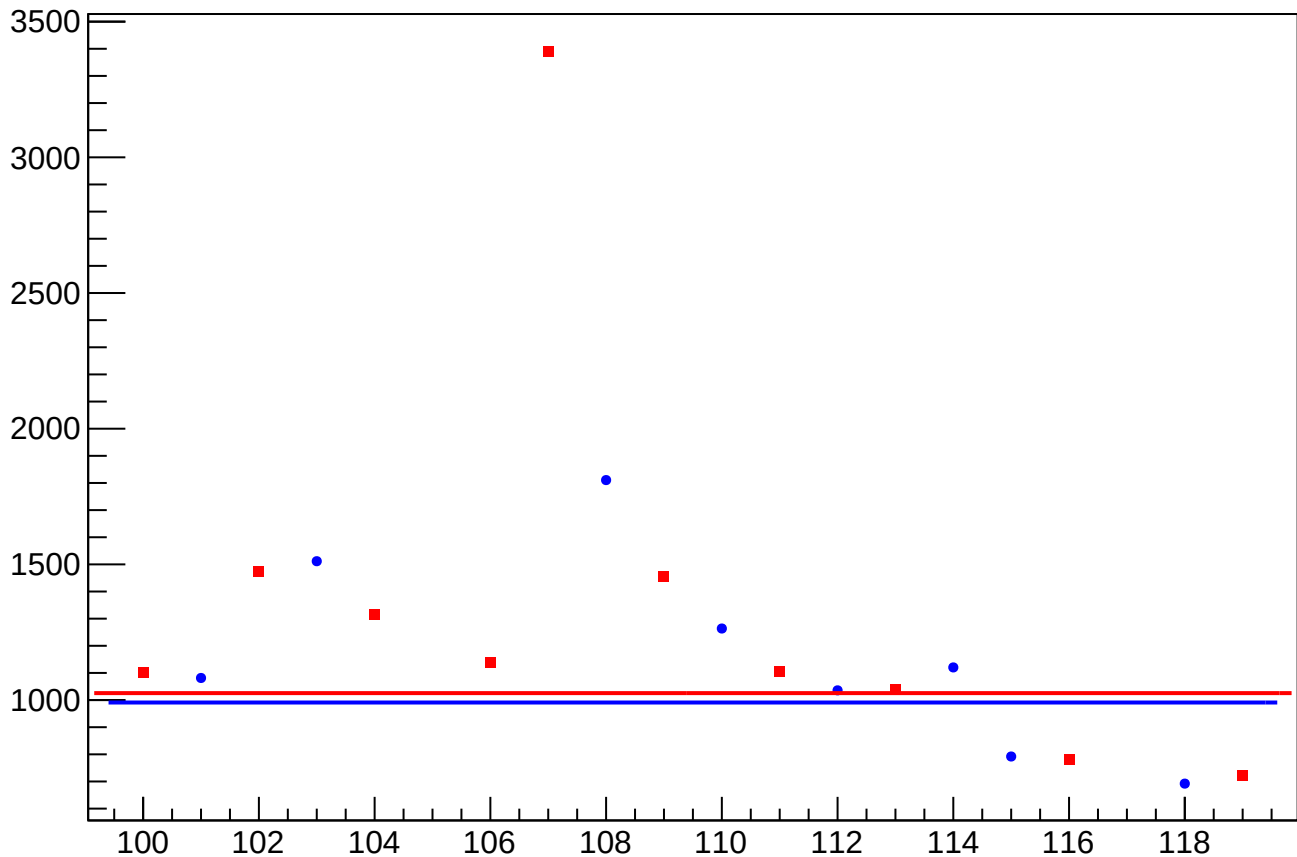
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -488.757 $\pm$ 388.678  $\chi^2$ /NDF: 24.4/17

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

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



Right In: 990.986+/-0.402  $\chi^2/\text{NDF}$ : 571444.4/7

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

Right Out: 1025.625+/-0.376  $\chi^2/\text{NDF}$ : 766080.2/9

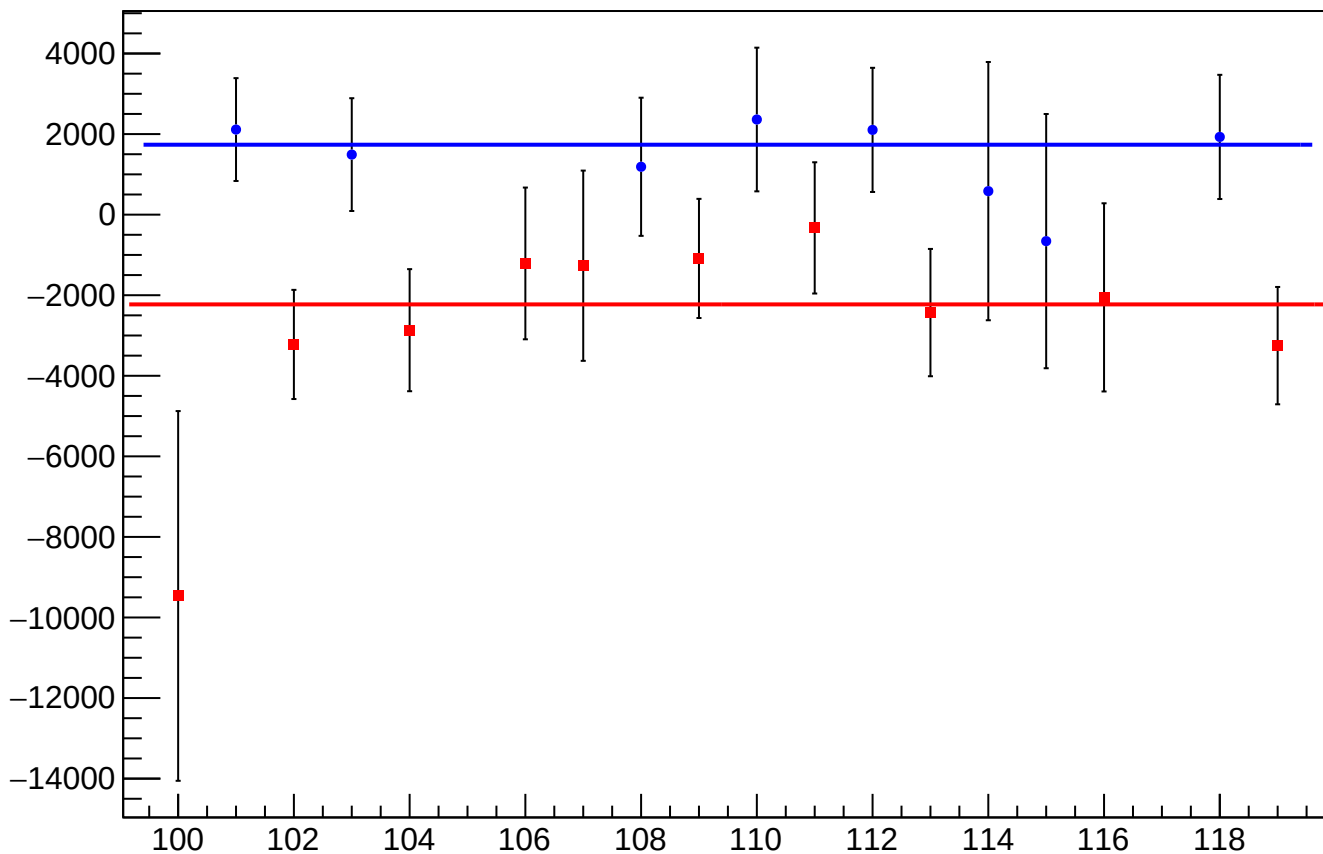
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1009.458+/-0.275  $\chi^2/\text{NDF}$ : 1341478.1/17

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

# overload\_cor\_asym\_usl\_mean vs Slug



Right In: 1736.018 $\pm$ 595.684  $\chi^2$ /NDF: 1.1/7

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

Right Out: -2227.830 $\pm$ 544.075  $\chi^2$ /NDF: 6.1/9

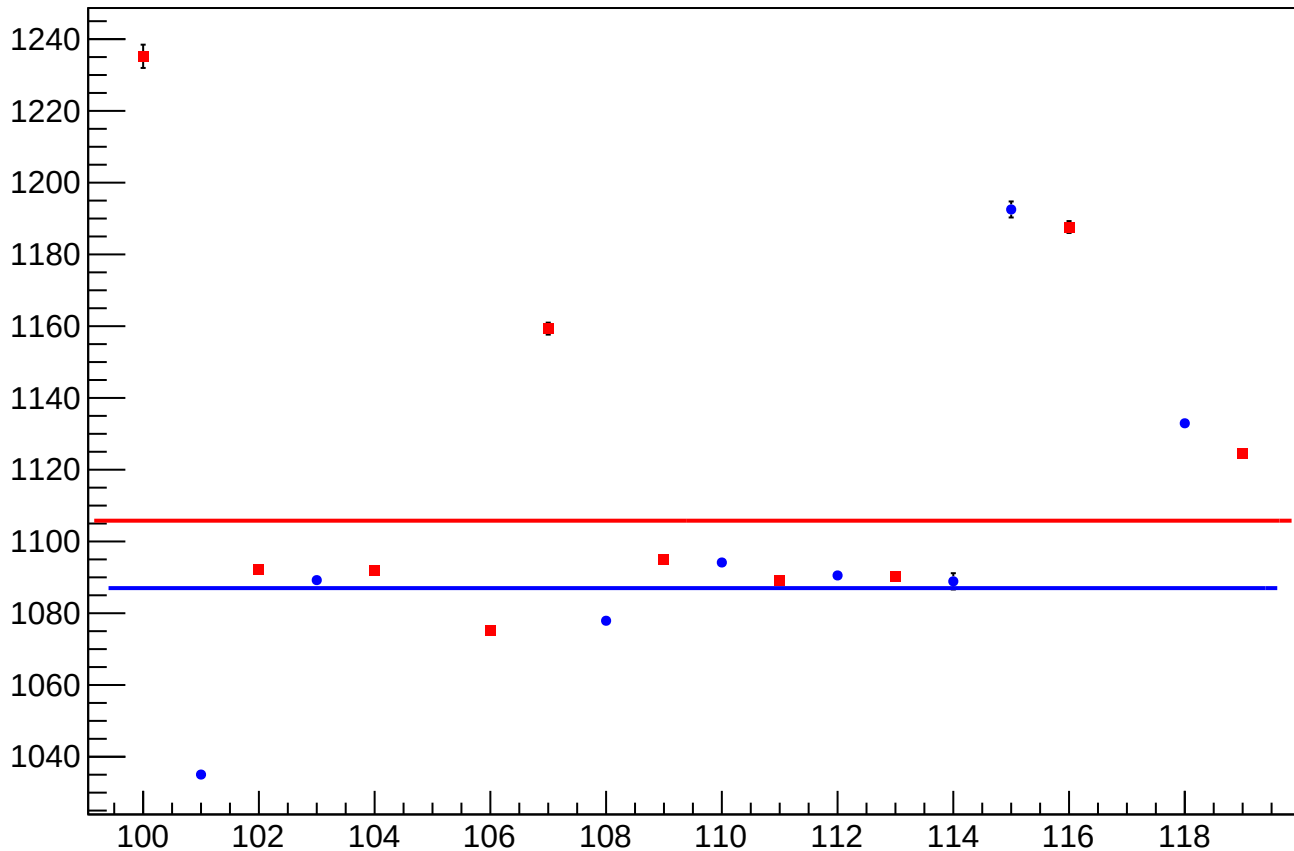
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -425.022 $\pm$ 401.728  $\chi^2$ /NDF: 31.4/17

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

# overload\_cor\_asym\_usl\_rms vs Slug



Right In: 1087.000+/-0.421  $\chi^2/\text{NDF}$ : 7431.7/7

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

Right Out: 1105.792+/-0.385  $\chi^2/\text{NDF}$ : 6817.8/9

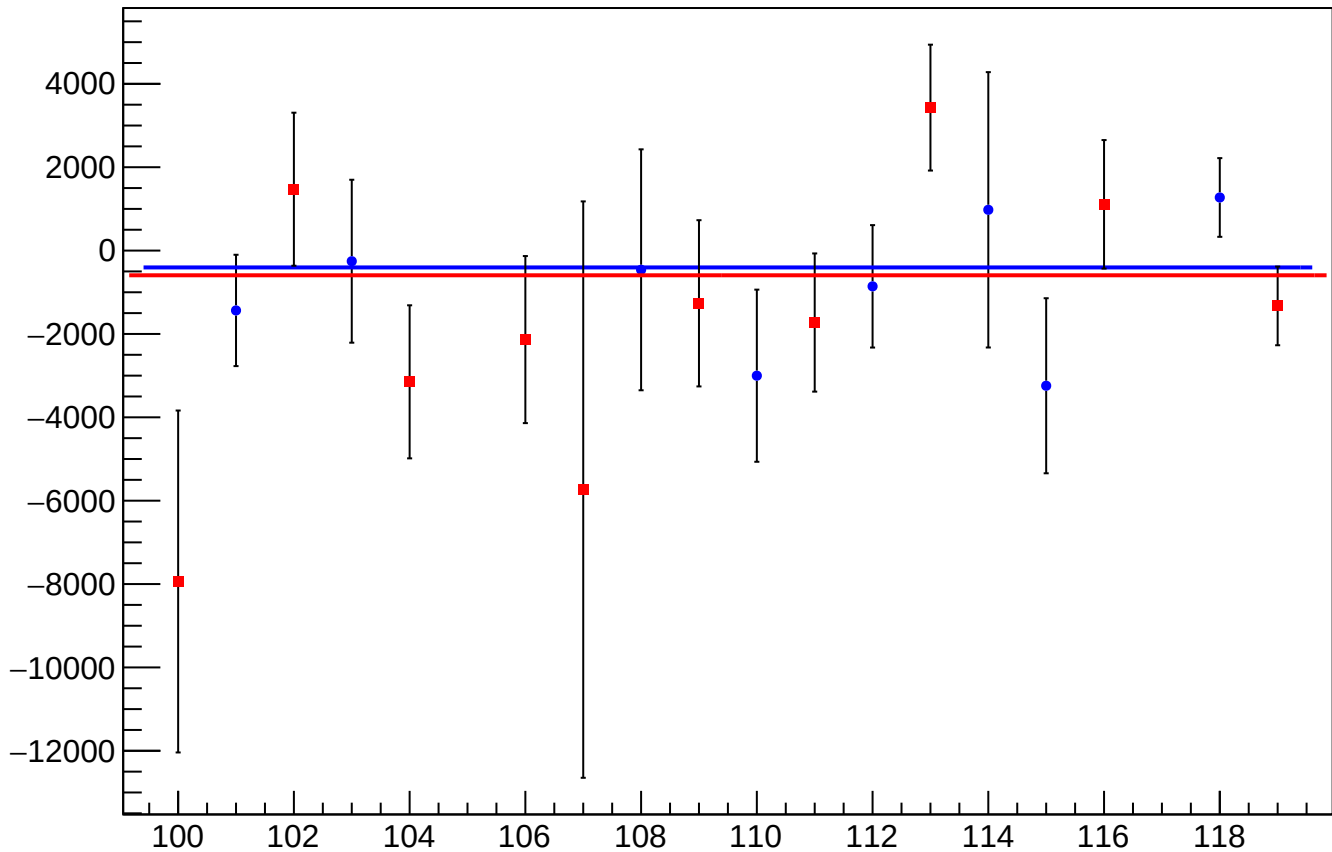
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1097.246+/-0.284  $\chi^2/\text{NDF}$ : 15334.7/17

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

# asym\_usl\_overload\_cor\_correction\_mean vs Slug



Right In: -404.143+/-569.706  $\chi^2/\text{NDF}$ : 7.4/7

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

Right Out: -592.605+/-532.905  $\chi^2/\text{NDF}$ : 17.1/9

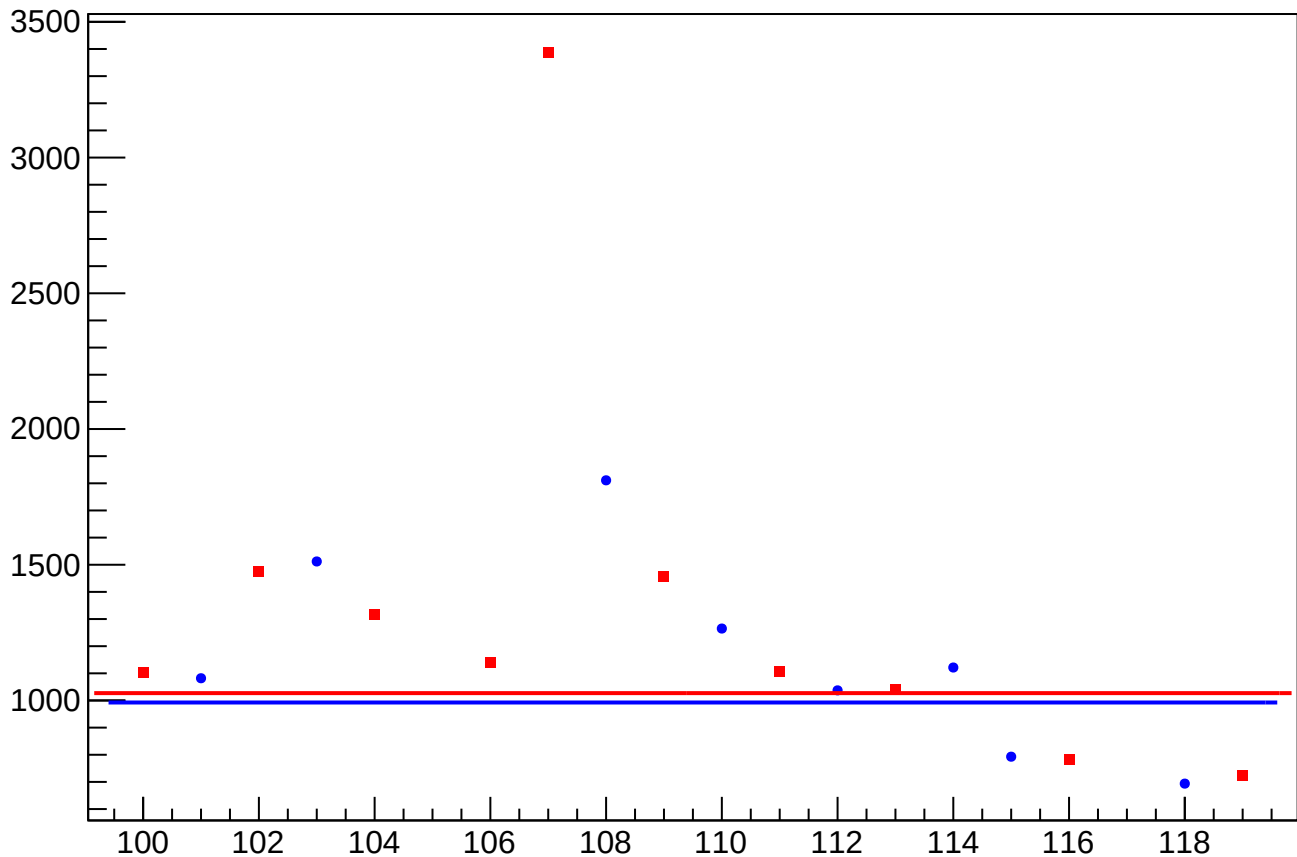
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -504.657+/-389.181  $\chi^2/\text{NDF}$ : 24.6/17

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

# asym\_usl\_overload\_cor\_correction\_rms vs Slug



Right In: 992.540+/-0.403     $\chi^2/\text{NDF}$ : 568898.1/7

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

Right Out: 1027.097+/-0.377     $\chi^2/\text{NDF}$ : 763357.4/9

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

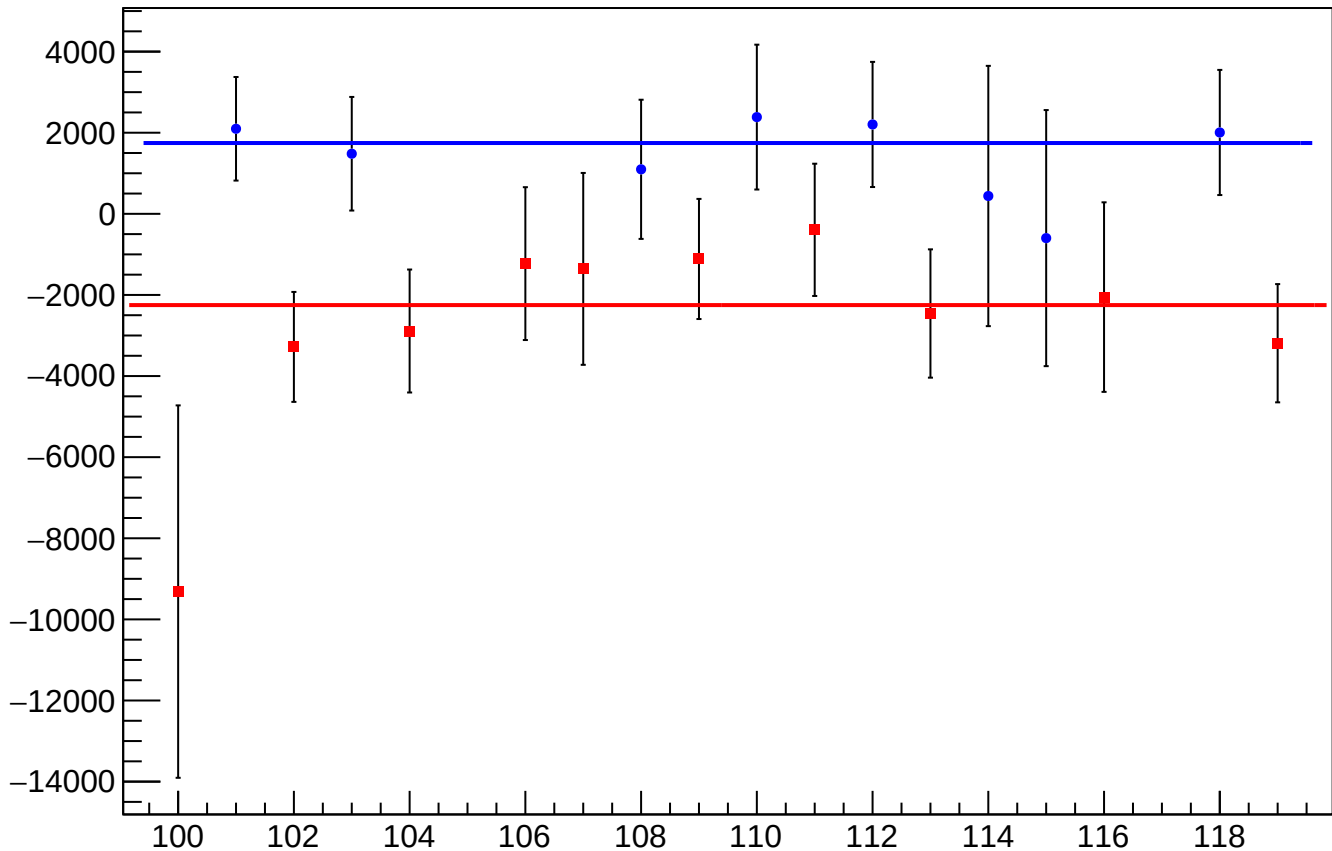
+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 1010.971+/-0.275     $\chi^2/\text{NDF}$ : 1336180.1/17

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



# eigen\_cor\_asym\_usl\_mean vs Slug



Right In: 1745.988 $\pm$ 596.159  $\chi^2$ /NDF: 1.2/7

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

Right Out: -2250.134 $\pm$ 544.540  $\chi^2$ /NDF: 5.9/9

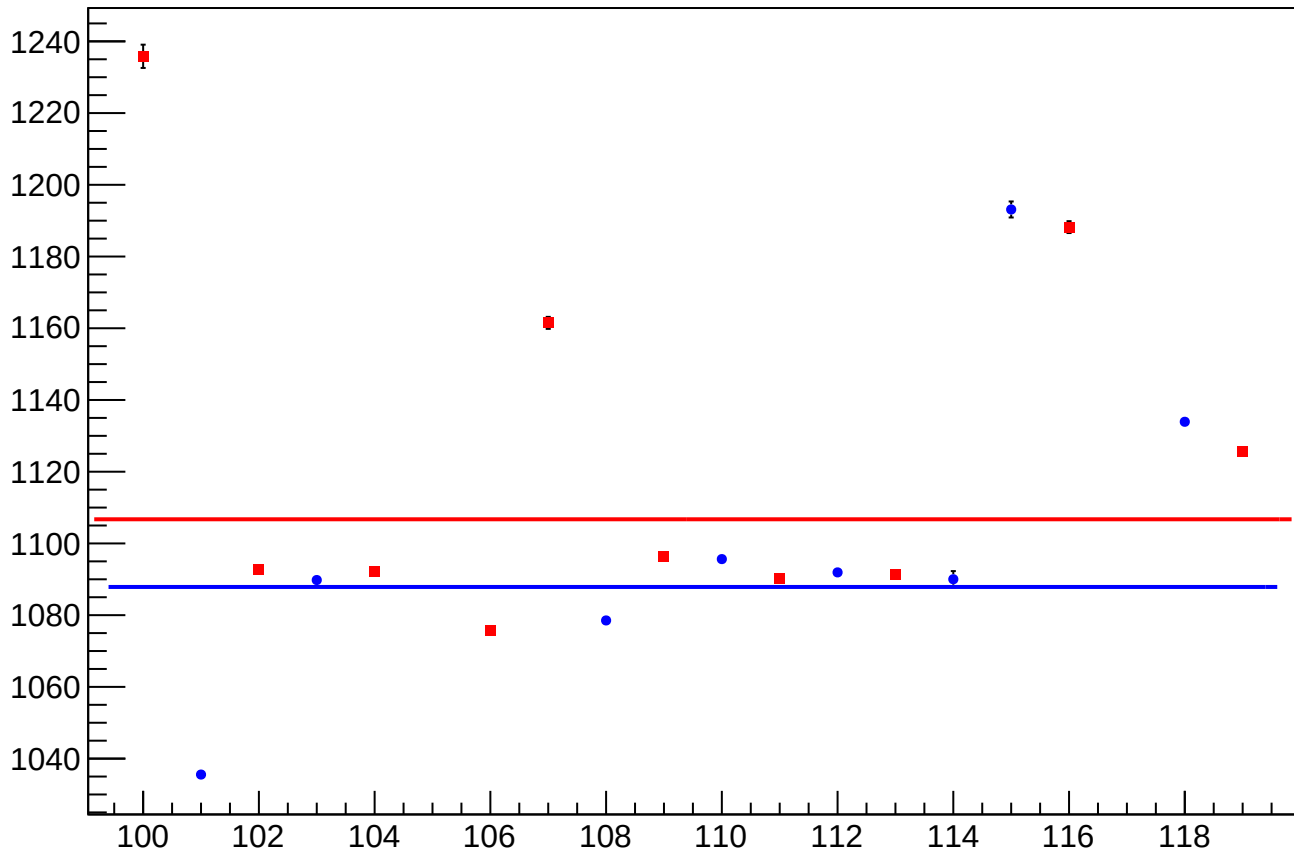
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -432.538 $\pm$ 402.061  $\chi^2$ /NDF: 31.6/17

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

# eigen\_cor\_asym\_usl\_rms vs Slug



Right In: 1087.864 $\pm$ 0.422  $\chi^2$ /NDF: 7476.7/7

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

Right Out: 1106.734 $\pm$ 0.385  $\chi^2$ /NDF: 6847.1/9

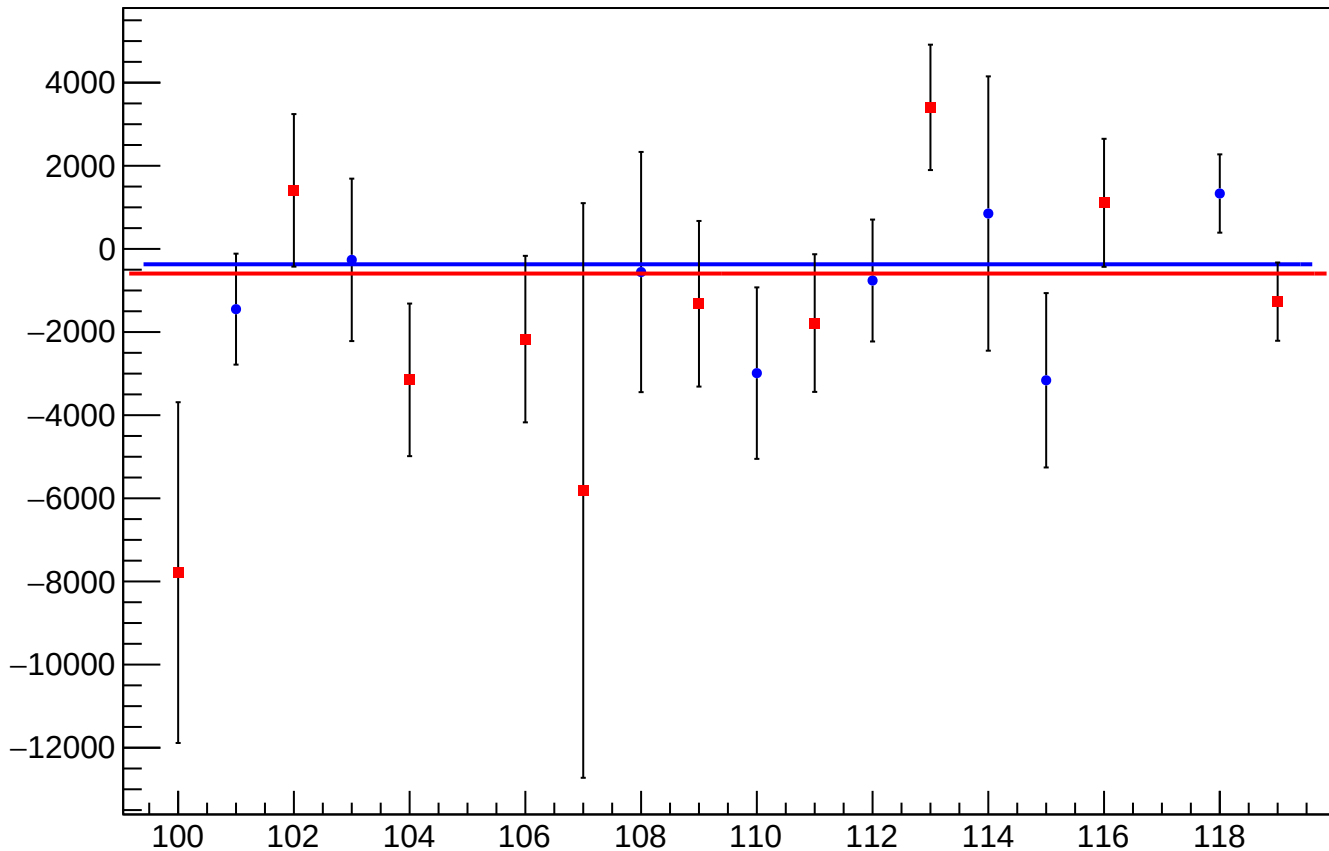
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1098.151 $\pm$ 0.284  $\chi^2$ /NDF: 15416.2/17

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

# asym\_usl\_eigen\_cor\_correction\_mean vs Slug



Right In: -369.907 $\pm$ 568.935  $\chi^2$ /NDF: 7.5/7

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

Right Out: -592.773 $\pm$ 532.246  $\chi^2$ /NDF: 16.8/9

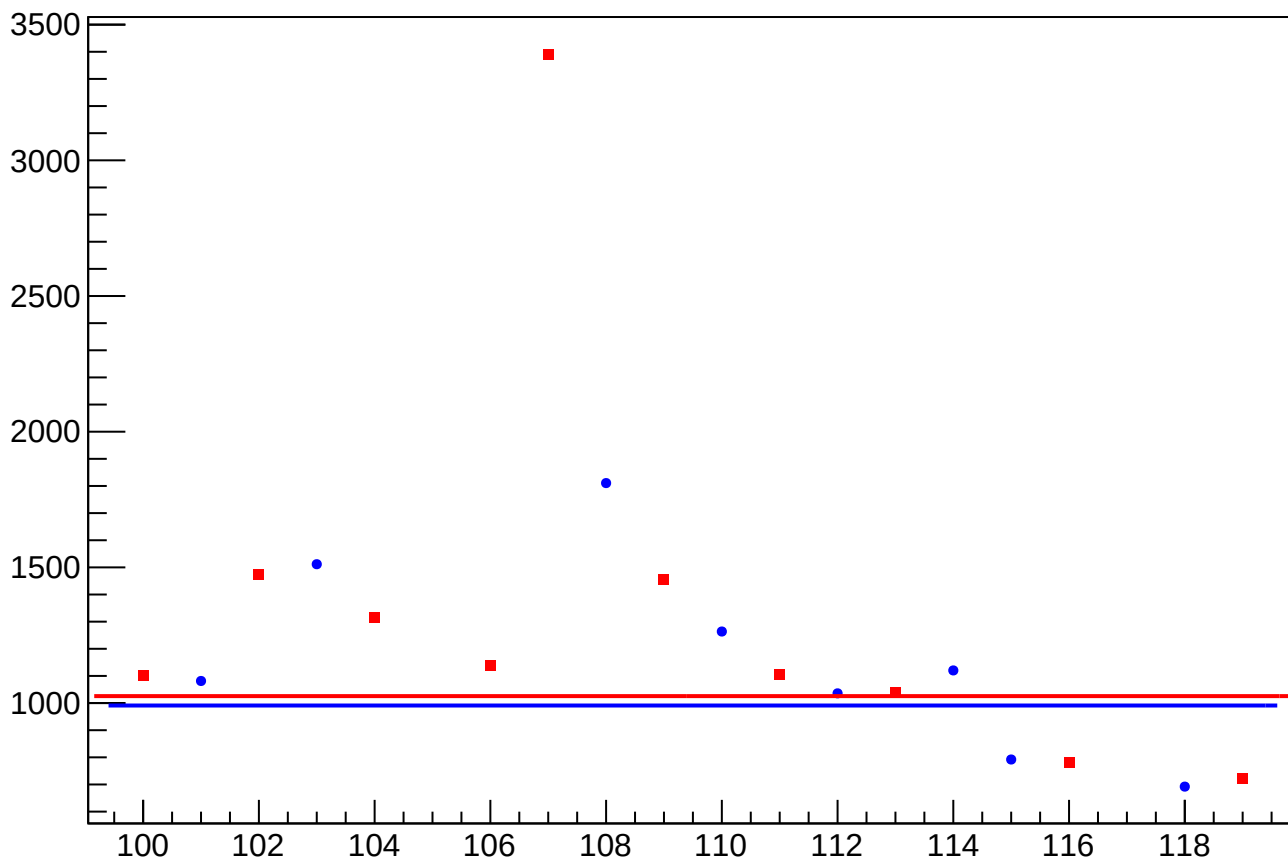
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -488.757 $\pm$ 388.678  $\chi^2$ /NDF: 24.4/17

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

# asym\_usl\_eigen\_cor\_correction\_rms vs Slug



Right In: 990.986+/-0.402     $\chi^2/\text{NDF}$ : 571444.4/7

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

Right Out: 1025.625+/-0.376     $\chi^2/\text{NDF}$ : 766080.2/9

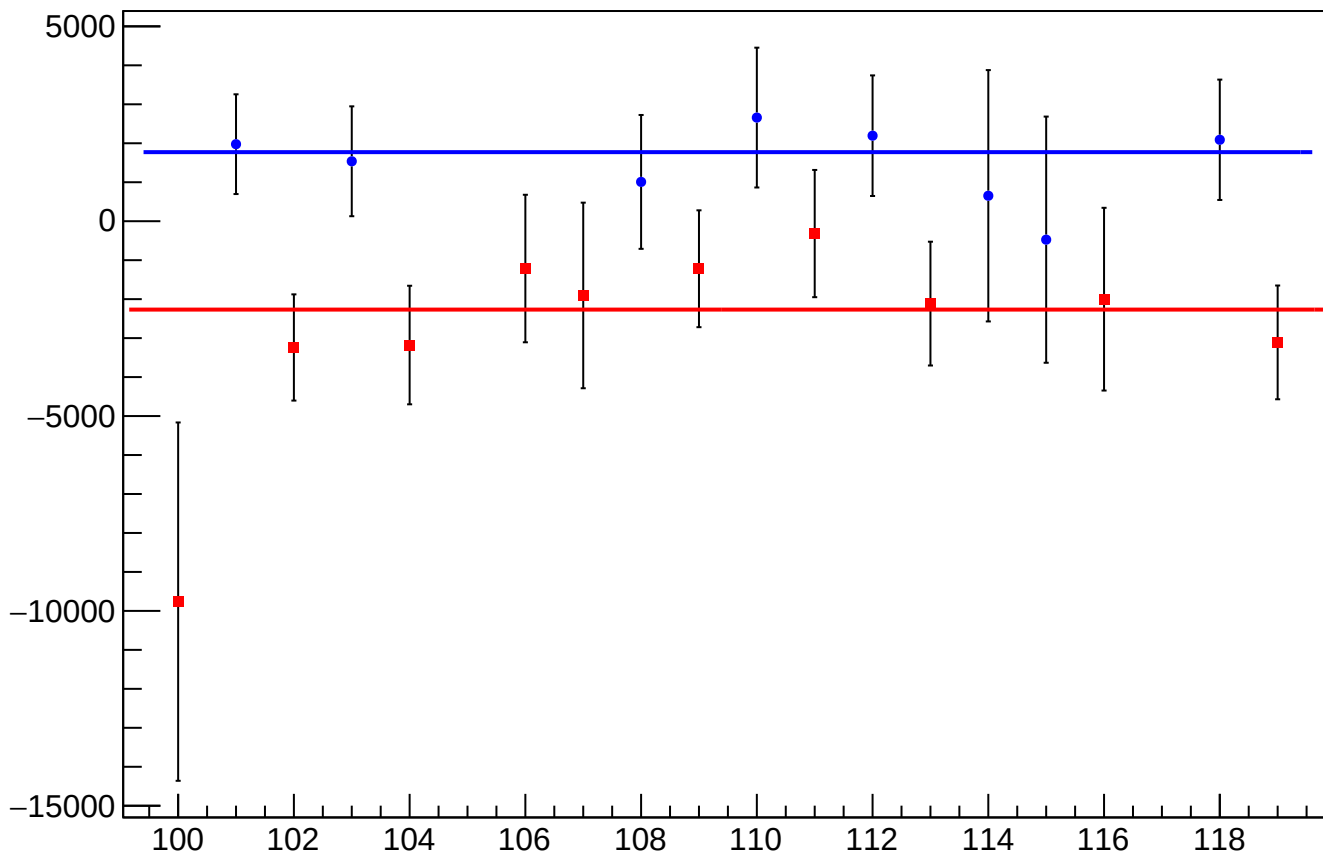
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1009.458+/-0.275     $\chi^2/\text{NDF}$ : 1341478.1/17

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

# dit\_asym\_usl\_mean vs Slug



Right In: 1772.182 $\pm$ 597.959  $\chi^2$ /NDF: 1.2/7

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

Right Out: -2268.068 $\pm$ 547.098  $\chi^2$ /NDF: 6.1/9

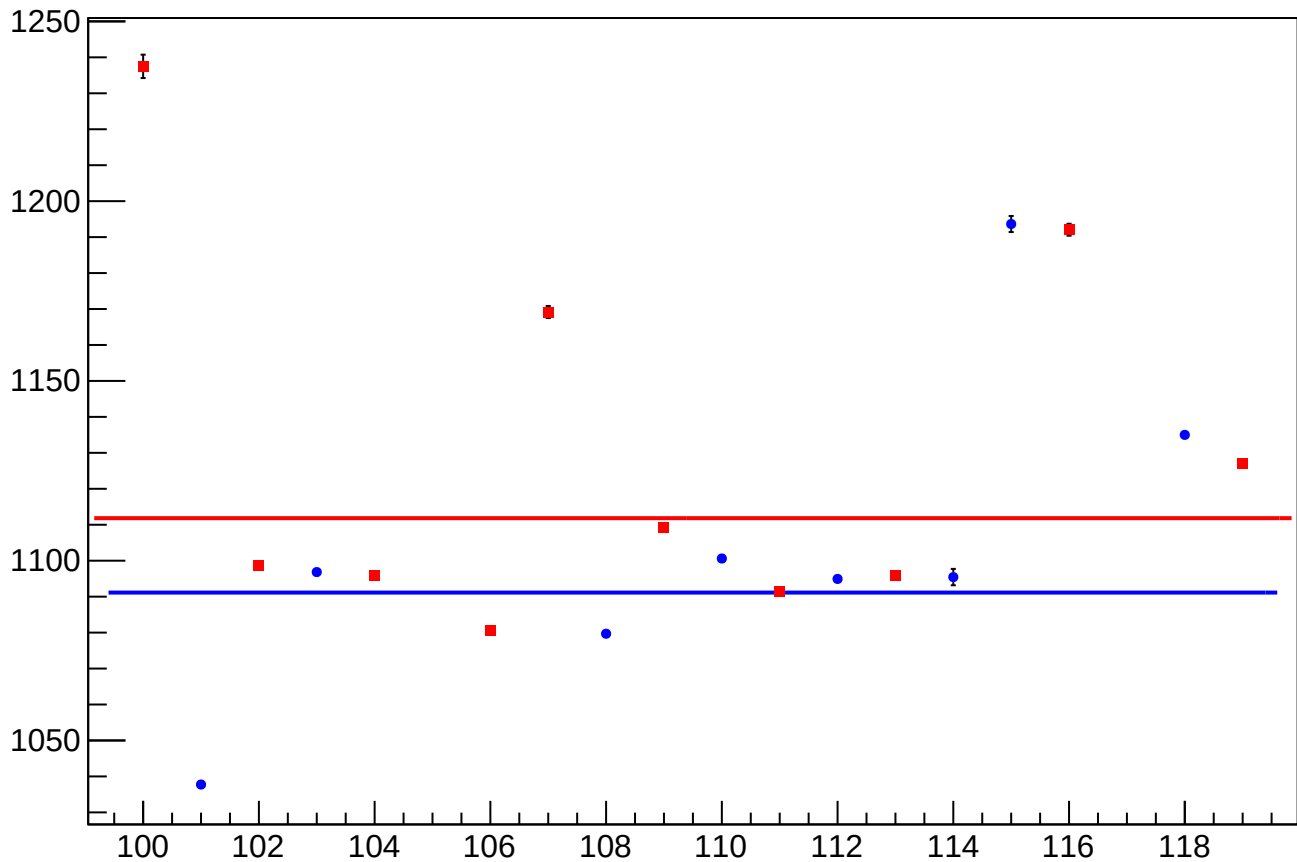
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -427.047 $\pm$ 403.642  $\chi^2$ /NDF: 32.2/17

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

# dit\_asym\_usl\_rms vs Slug



Right In: 1091.135+/-0.423  $\chi^2/\text{NDF}$ : 7393.8/7

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

Right Out: 1111.831+/-0.387  $\chi^2/\text{NDF}$ : 6680.1/9

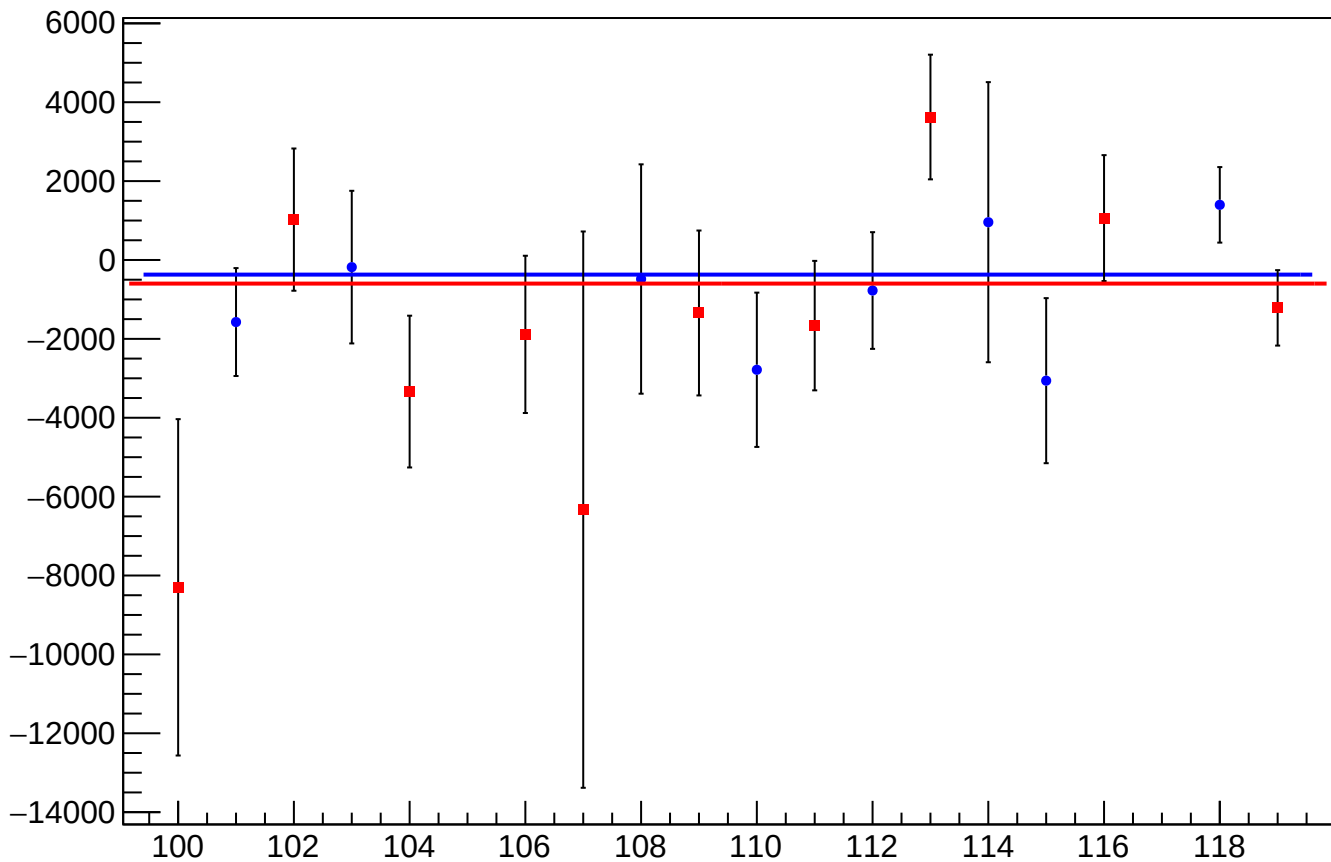
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1102.400+/-0.285  $\chi^2/\text{NDF}$ : 15377.9/17

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

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



Right In: -370.793+/-573.893  $\chi^2/\text{NDF}$ : 7.6/7

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

Right Out: -598.574+/-543.088  $\chi^2/\text{NDF}$ : 16.4/9

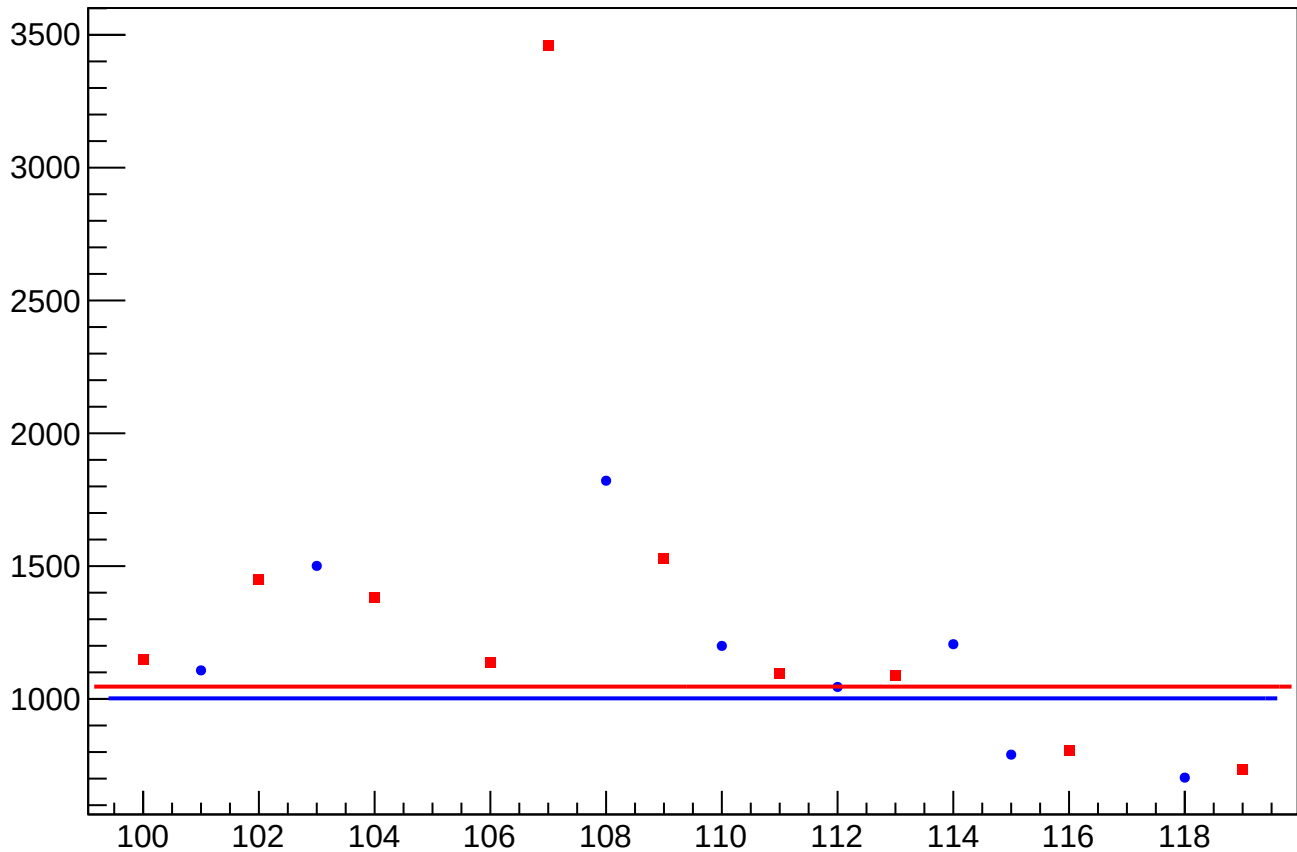
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -490.961+/-394.462  $\chi^2/\text{NDF}$ : 24.0/17

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

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



Right In: 1002.154+/-0.406  $\chi^2/\text{NDF}$ : 546901.7/7

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

Right Out: 1046.373+/-0.384  $\chi^2/\text{NDF}$ : 769765.8/9

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

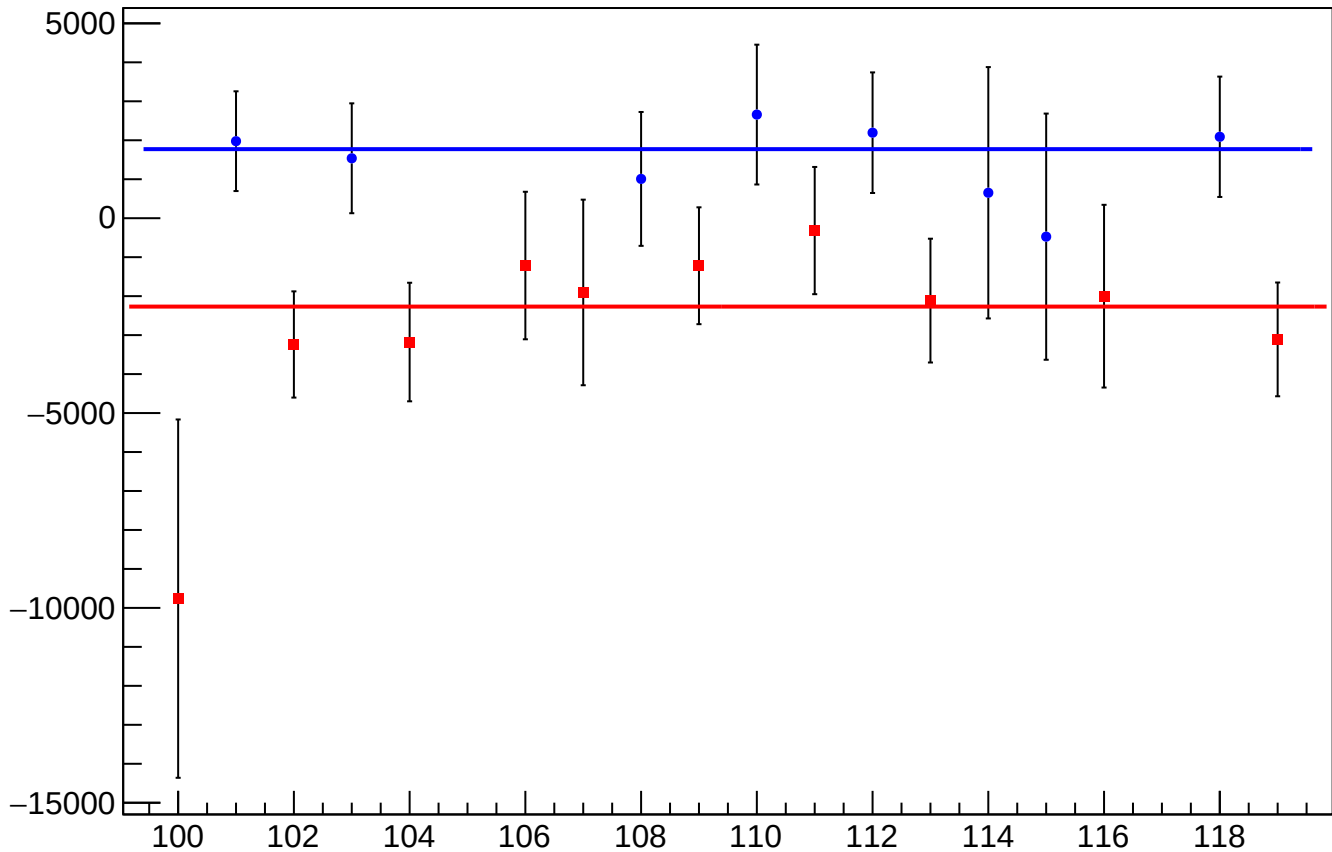
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1025.482+/-0.279  $\chi^2/\text{NDF}$ : 1322931.3/17

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



# eigen\_dit\_asym\_usl\_mean vs Slug



Right In: 1772.183 $\pm$ 597.959  $\chi^2$ /NDF: 1.2/7

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

Right Out: -2268.065 $\pm$ 547.098  $\chi^2$ /NDF: 6.1/9

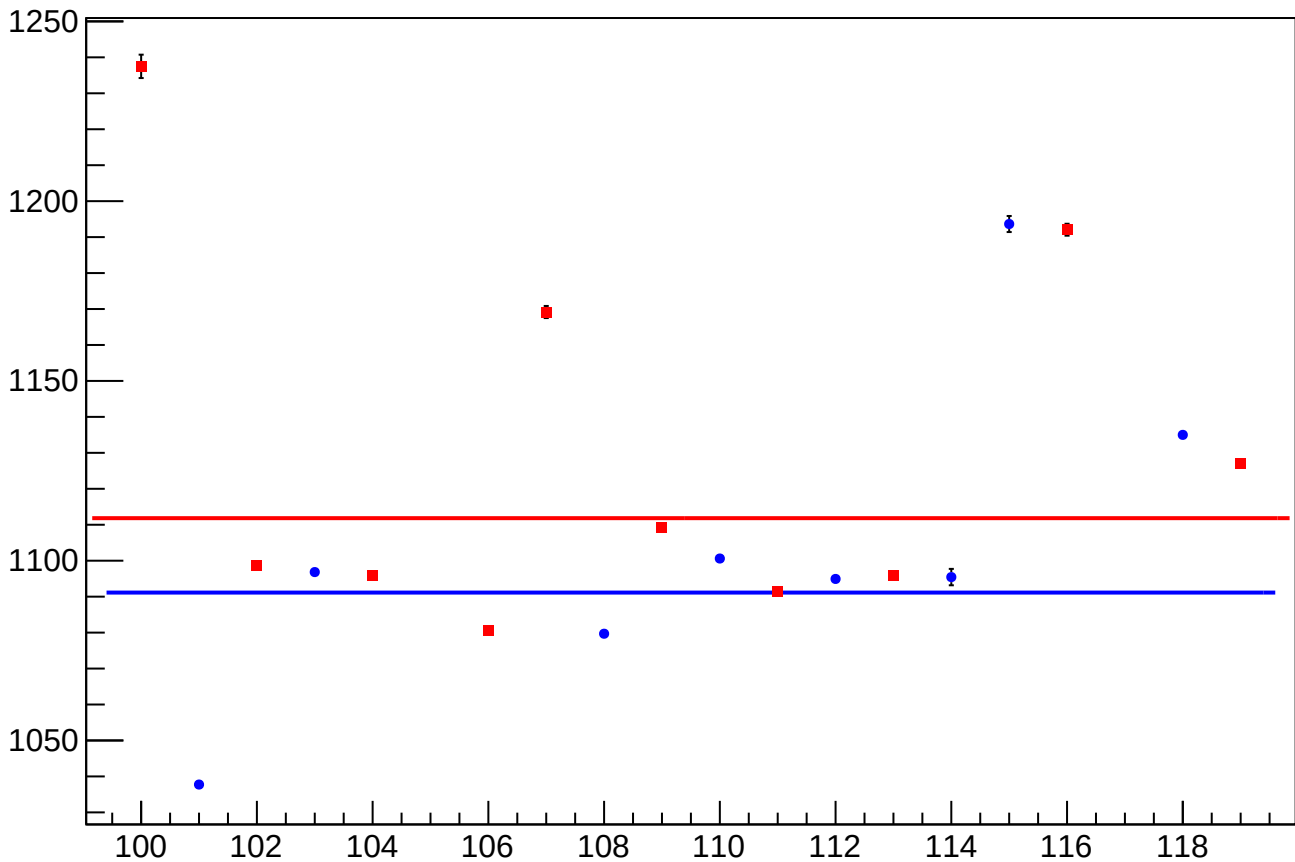
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -427.046 $\pm$ 403.642  $\chi^2$ /NDF: 32.2/17

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

# eigen\_dit\_asym\_usl\_rms vs Slug



Right In: 1091.135+/-0.423  $\chi^2/\text{NDF}$ : 7393.8/7

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

Right Out: 1111.830+/-0.387  $\chi^2/\text{NDF}$ : 6680.0/9

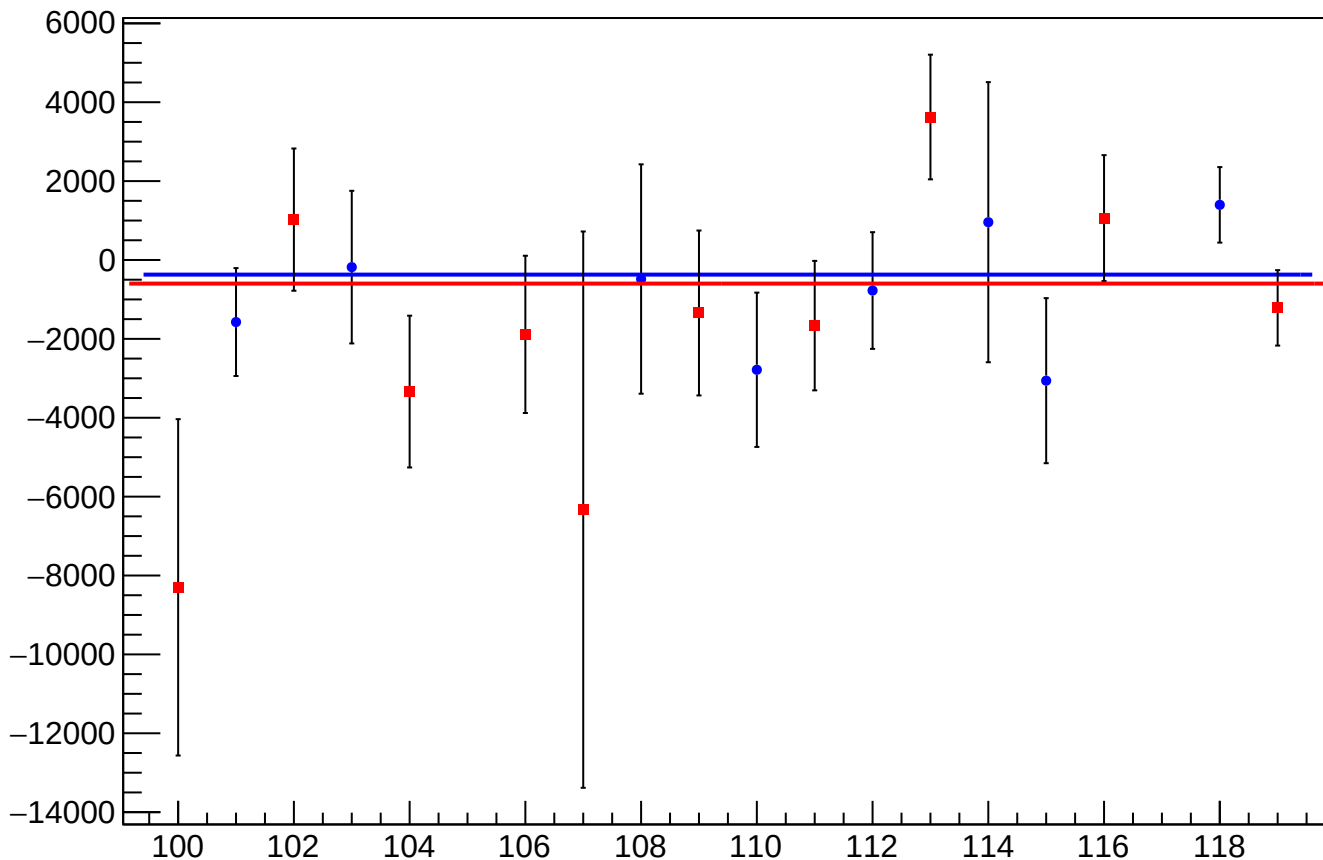
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1102.400+/-0.285  $\chi^2/\text{NDF}$ : 15377.8/17

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

# asym\_usl\_eigen\_dit\_correction\_mean vs Slug



Right In: -370.792+/-573.892  $\chi^2$ /NDF: 7.6/7

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

Right Out: -598.574+/-543.087  $\chi^2$ /NDF: 16.4/9

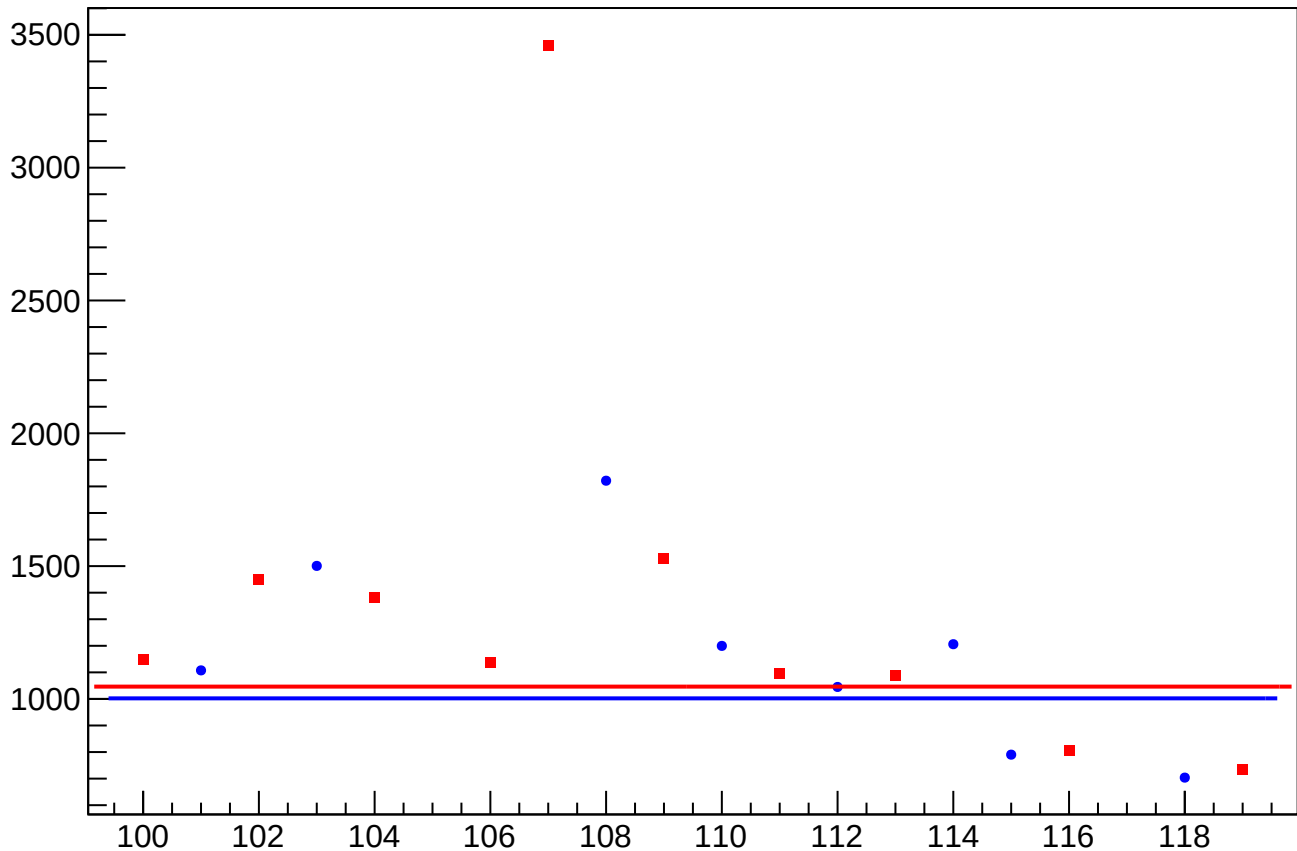
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -490.960+/-394.461  $\chi^2$ /NDF: 24.0/17

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

# asym\_usl\_eigen\_dit\_correction\_rms vs Slug



Right In: 1002.153+/-0.406  $\chi^2/\text{NDF}$ : 546903.4/7

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

Right Out: 1046.371+/-0.384  $\chi^2/\text{NDF}$ : 769765.6/9

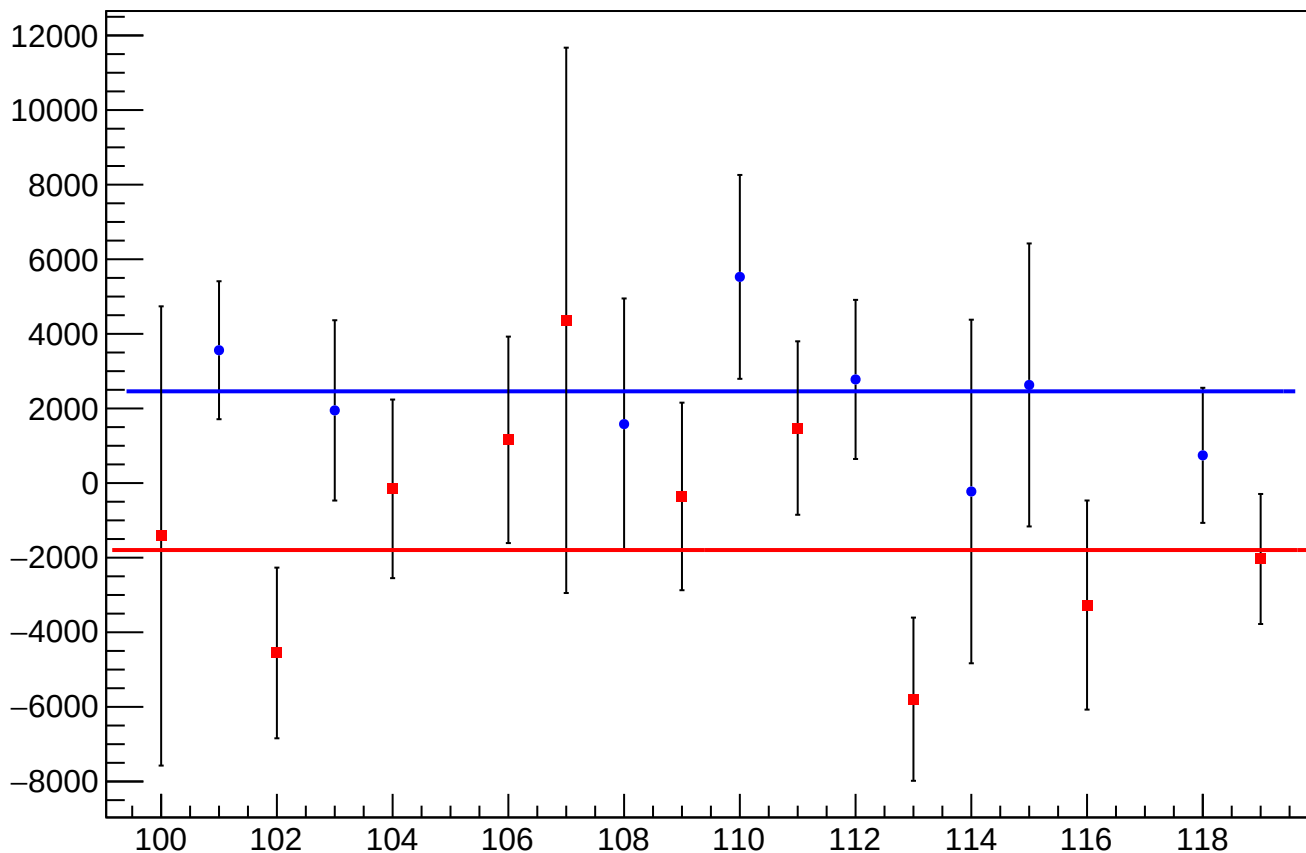
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1025.480+/-0.279  $\chi^2/\text{NDF}$ : 1322932.9/17

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

# asym\_usl\_mean vs Slug



Right In: 2459.491 $\pm$ 868.009  $\chi^2$ /NDF: 3.0/7

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

Right Out: -1795.286 $\pm$ 803.268  $\chi^2$ /NDF: 9.7/9

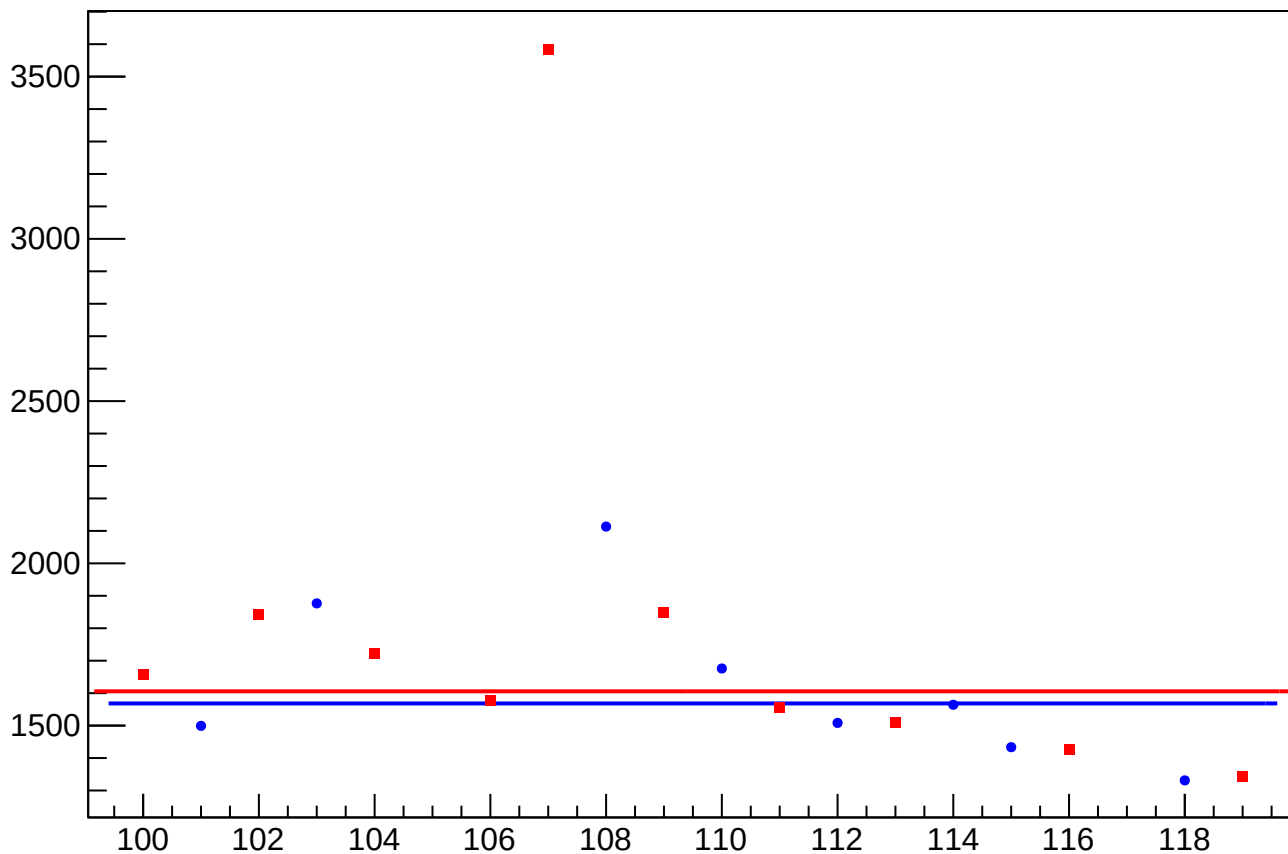
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 167.529 $\pm$ 589.557  $\chi^2$ /NDF: 25.7/17

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

# asym\_usl\_rms vs Slug



Right In: 1568.274+/-0.614  $\chi^2/\text{NDF}$ : 129248.2/7

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

Right Out: 1605.627+/-0.568  $\chi^2/\text{NDF}$ : 250082.5/9

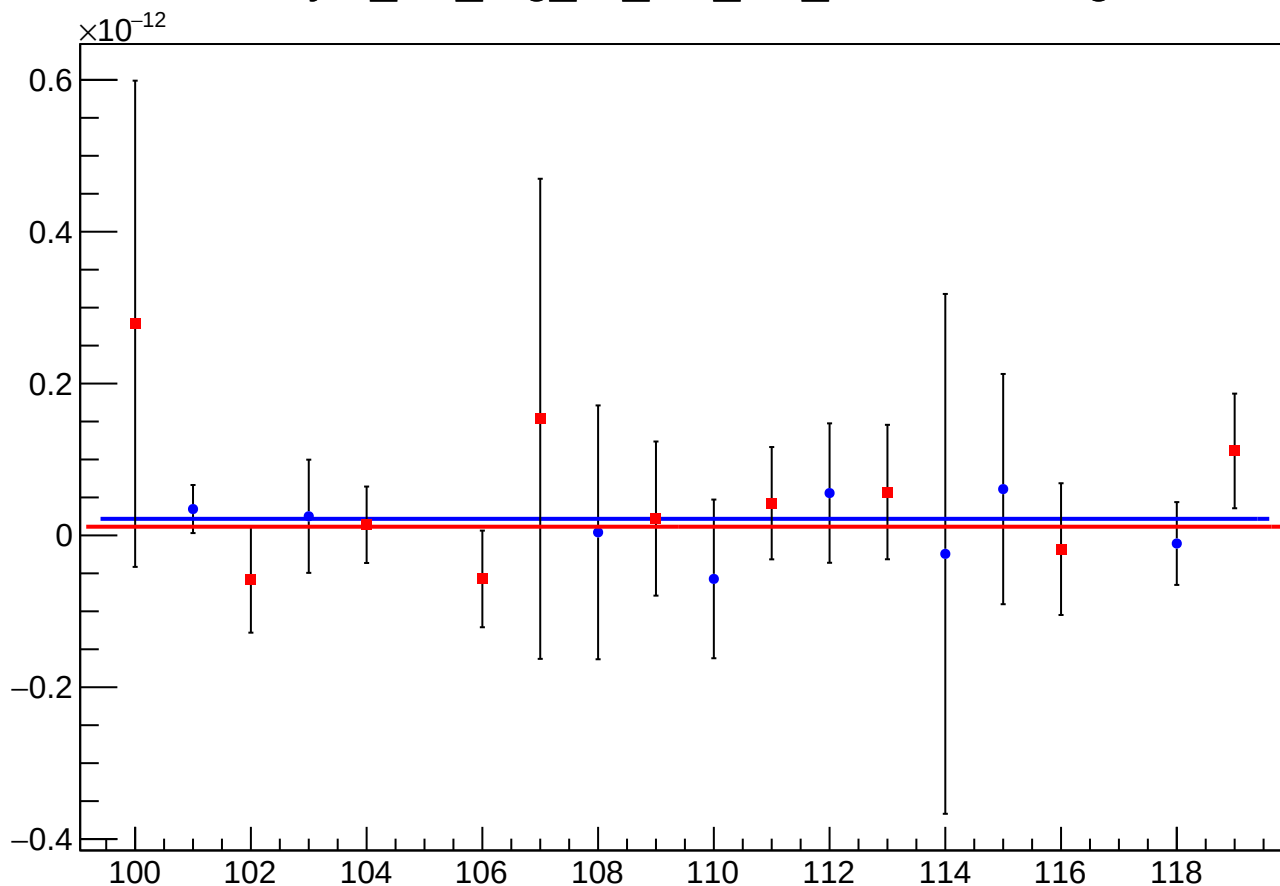
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1588.395+/-0.417  $\chi^2/\text{NDF}$ : 381325.9/17

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

# asym\_usl\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.3/7

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

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.4/9

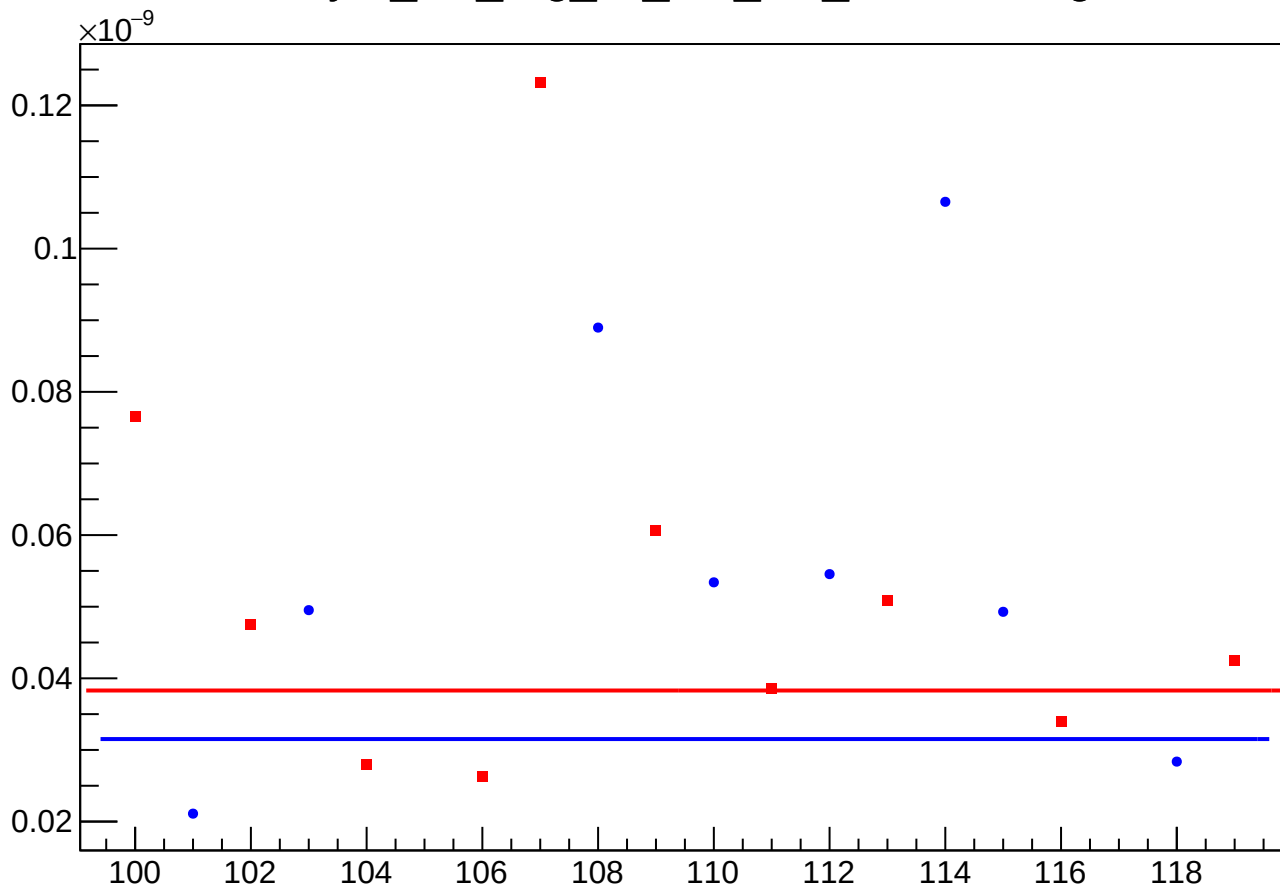
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.8/17

- 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  $\chi^2/\text{NDF}$ : 912877.4/7

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 512318.7/9

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

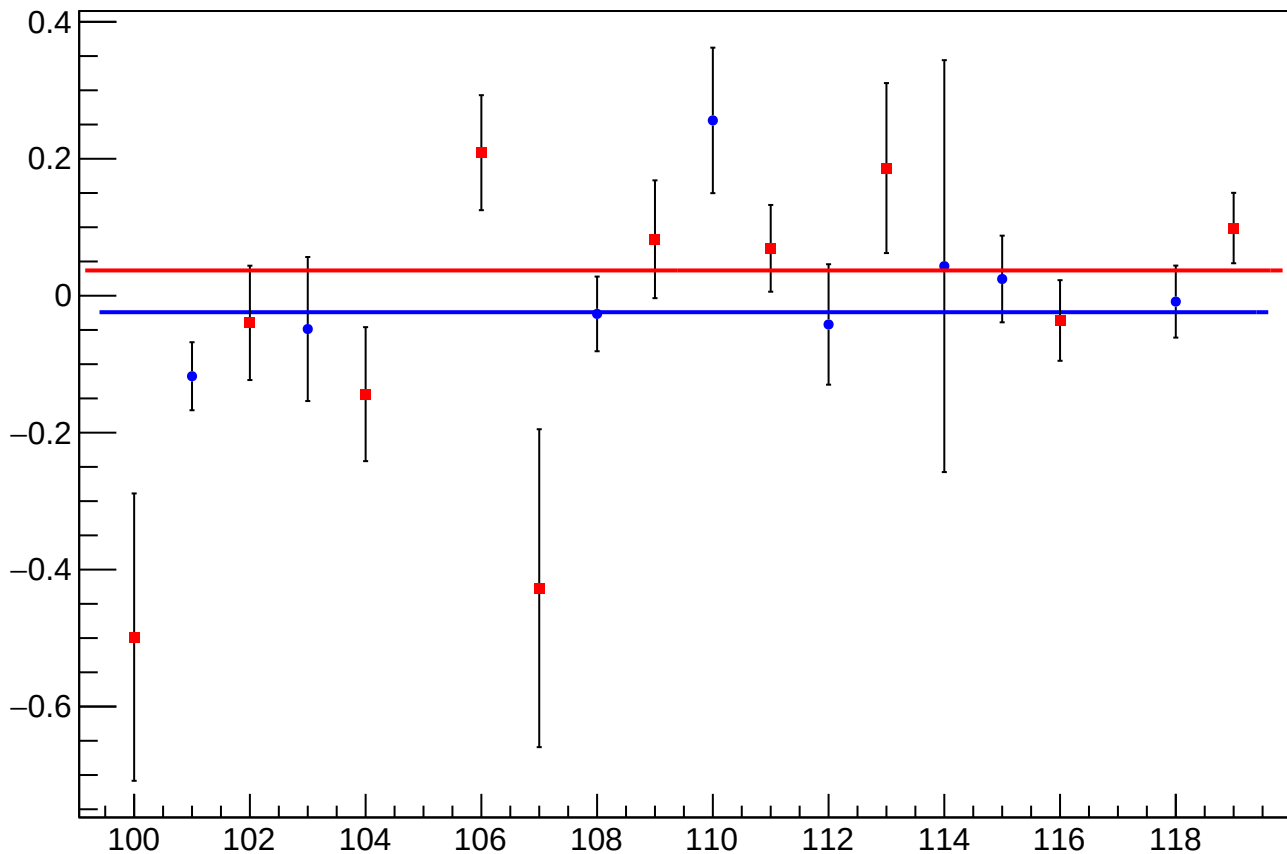
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1502820.2/17

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



# asym\_usl\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.024 $\pm$ 0.024  $\chi^2$ /NDF: 11.3/7

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

Right Out: 0.037 $\pm$ 0.025  $\chi^2$ /NDF: 23.9/9

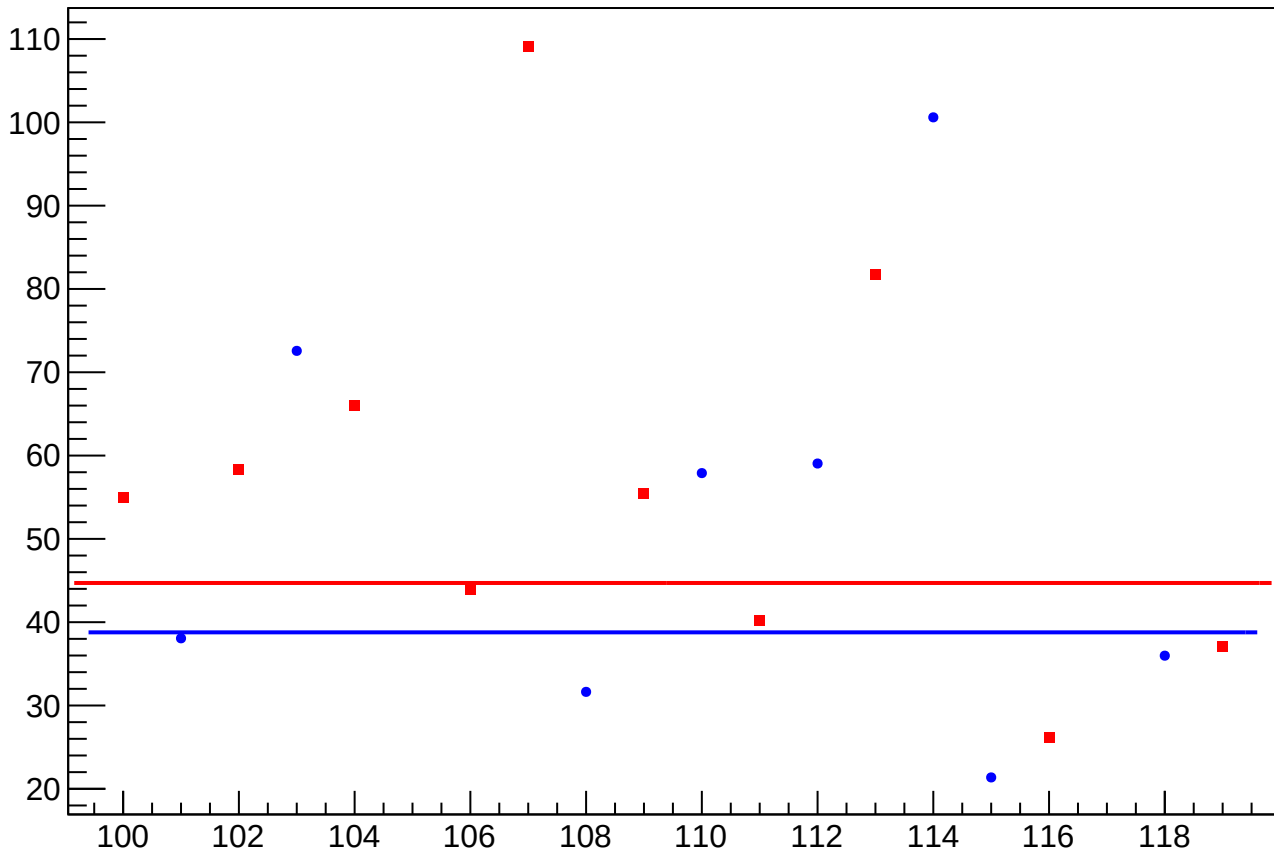
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.005 $\pm$ 0.018  $\chi^2$ /NDF: 38.2/17

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

# asym\_usl\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 38.781+/-0.017  $\chi^2/\text{NDF}$ : 653671.3/7

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

Right Out: 44.707+/-0.018  $\chi^2/\text{NDF}$ : 766738.9/9

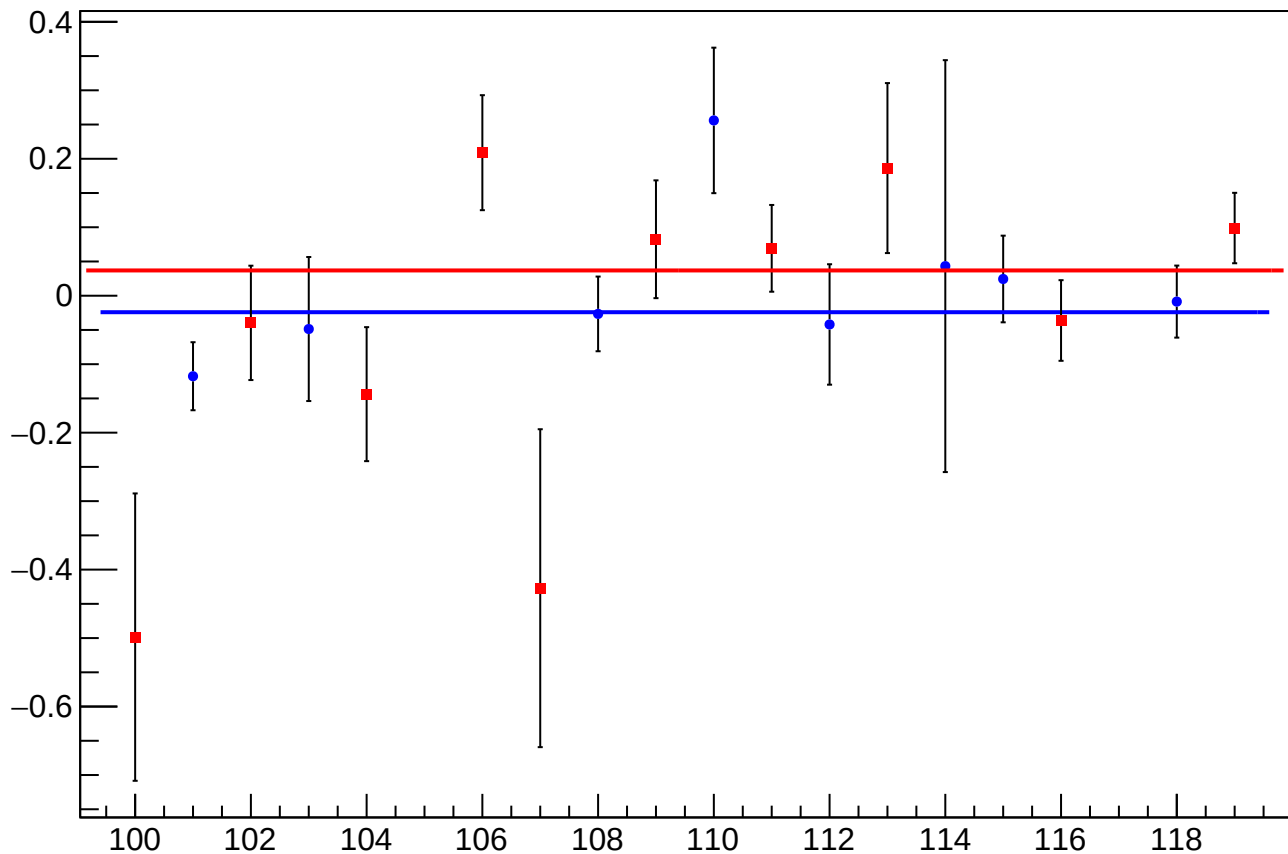
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 41.629+/-0.012  $\chi^2/\text{NDF}$ : 1476851.9/17

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

# asym\_usl\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.024 $\pm$ 0.024  $\chi^2$ /NDF: 11.3/7

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

Right Out: 0.037 $\pm$ 0.025  $\chi^2$ /NDF: 23.9/9

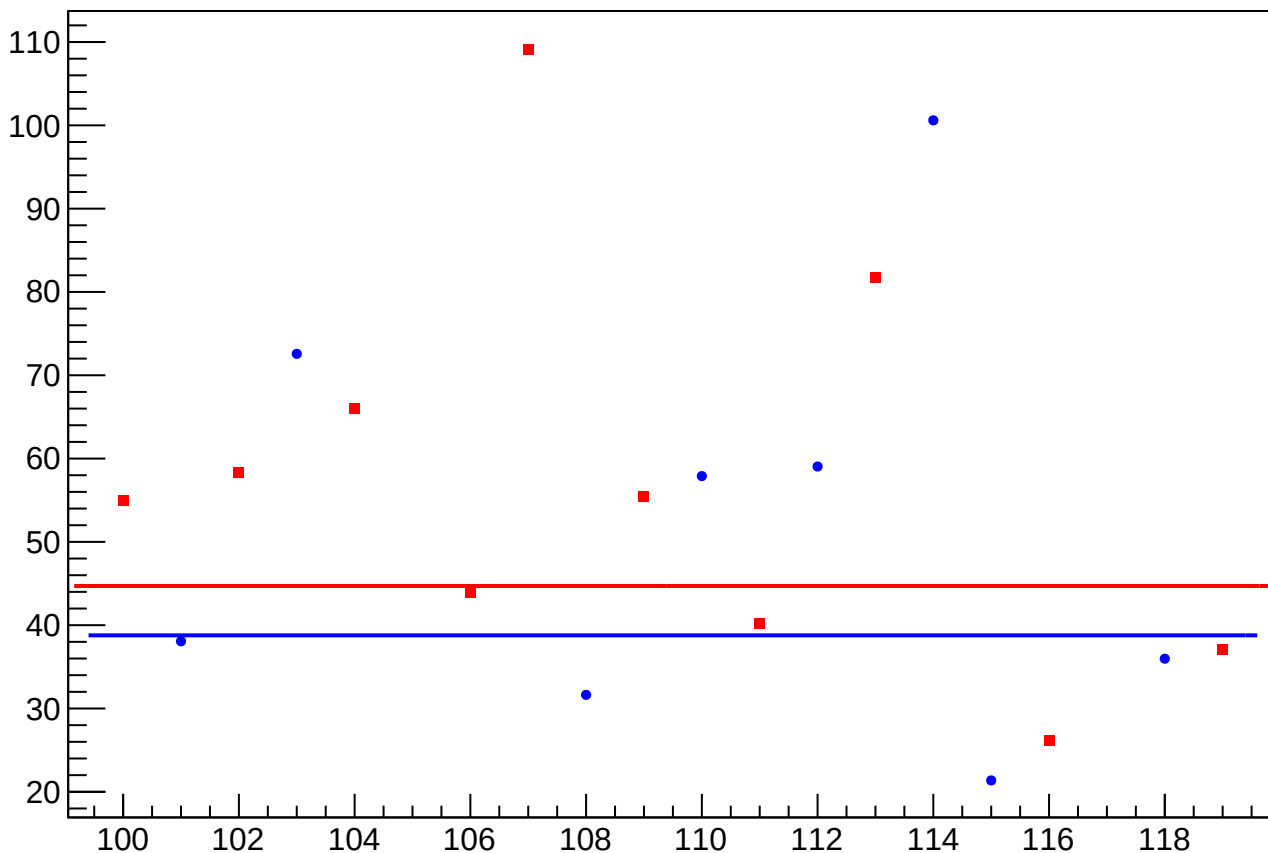
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.005 $\pm$ 0.018  $\chi^2$ /NDF: 38.2/17

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

# asym\_usl\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 38.781+/-0.017  $\chi^2/\text{NDF}$ : 653671.3/7

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

Right Out: 44.707+/-0.018  $\chi^2/\text{NDF}$ : 766738.9/9

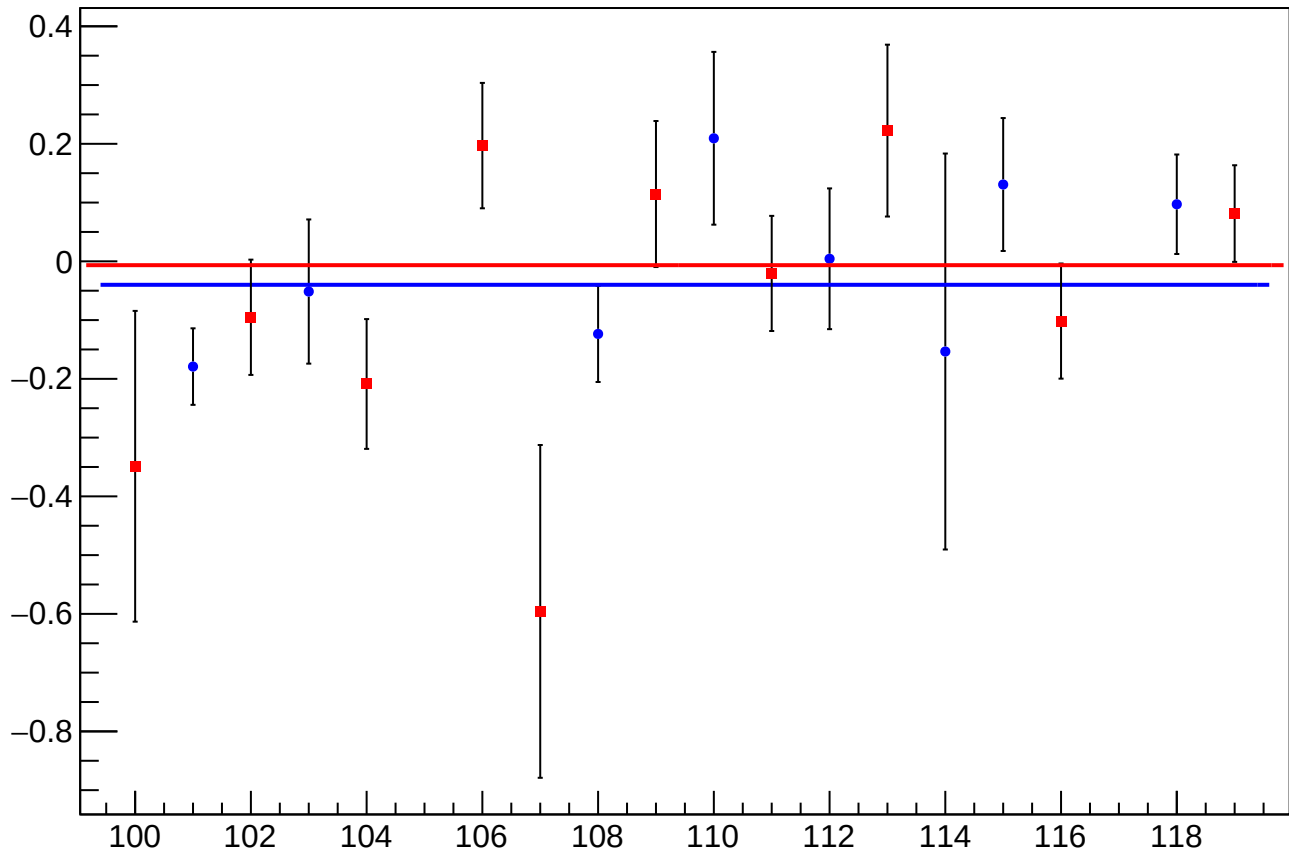
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 41.629+/-0.012  $\chi^2/\text{NDF}$ : 1476851.9/17

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

asym\_usl\_dit\_vs\_overload\_cor\_diff\_mean vs Slug



Right In: -0.040 $\pm$ 0.035  $\chi^2$ /NDF: 13.6/7

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

Right Out: -0.007 $\pm$ 0.036  $\chi^2$ /NDF: 19.3/9

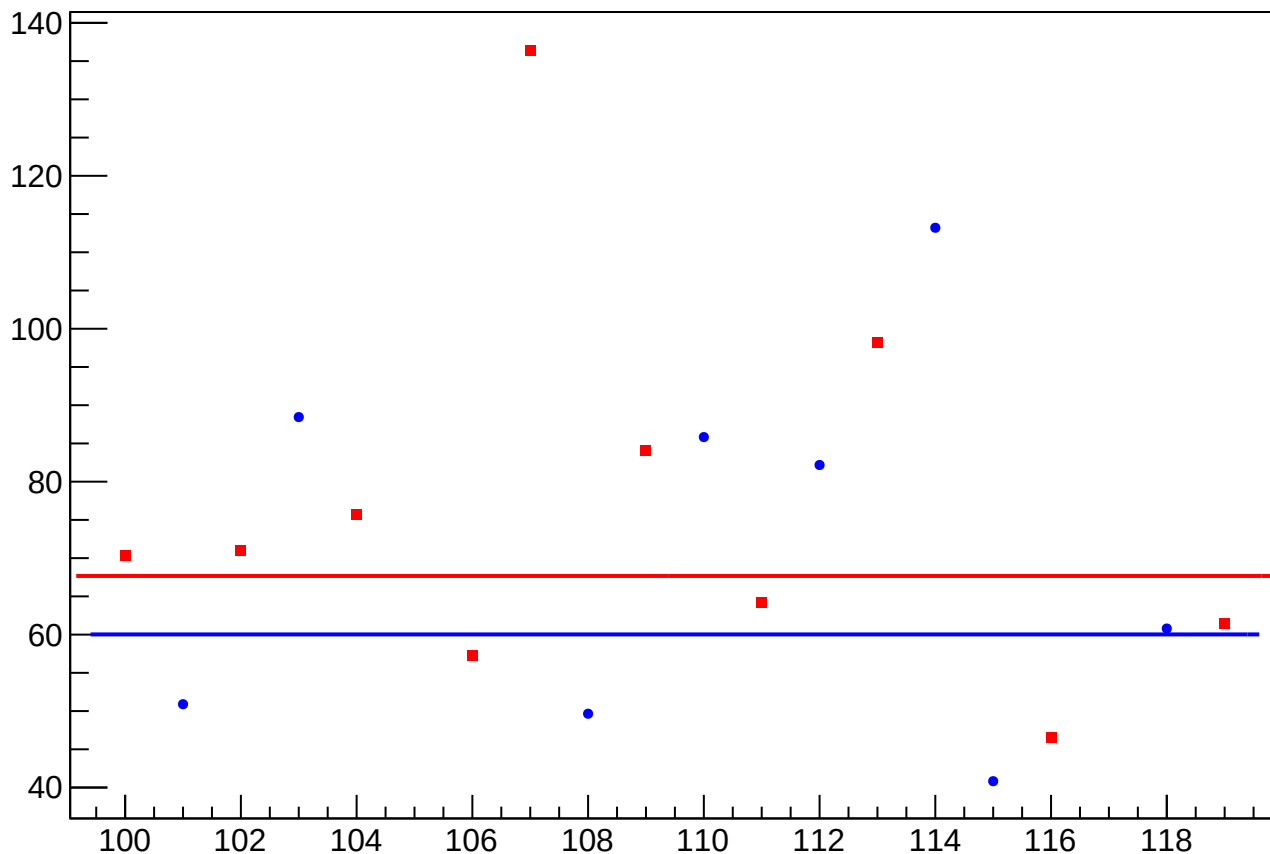
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.024 $\pm$ 0.025  $\chi^2$ /NDF: 33.4/17

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

# asym\_usl\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In: 60.024+/-0.025  $\chi^2/\text{NDF}$ : 416380.0/7

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

Right Out: 67.672+/-0.026  $\chi^2/\text{NDF}$ : 379268.2/9

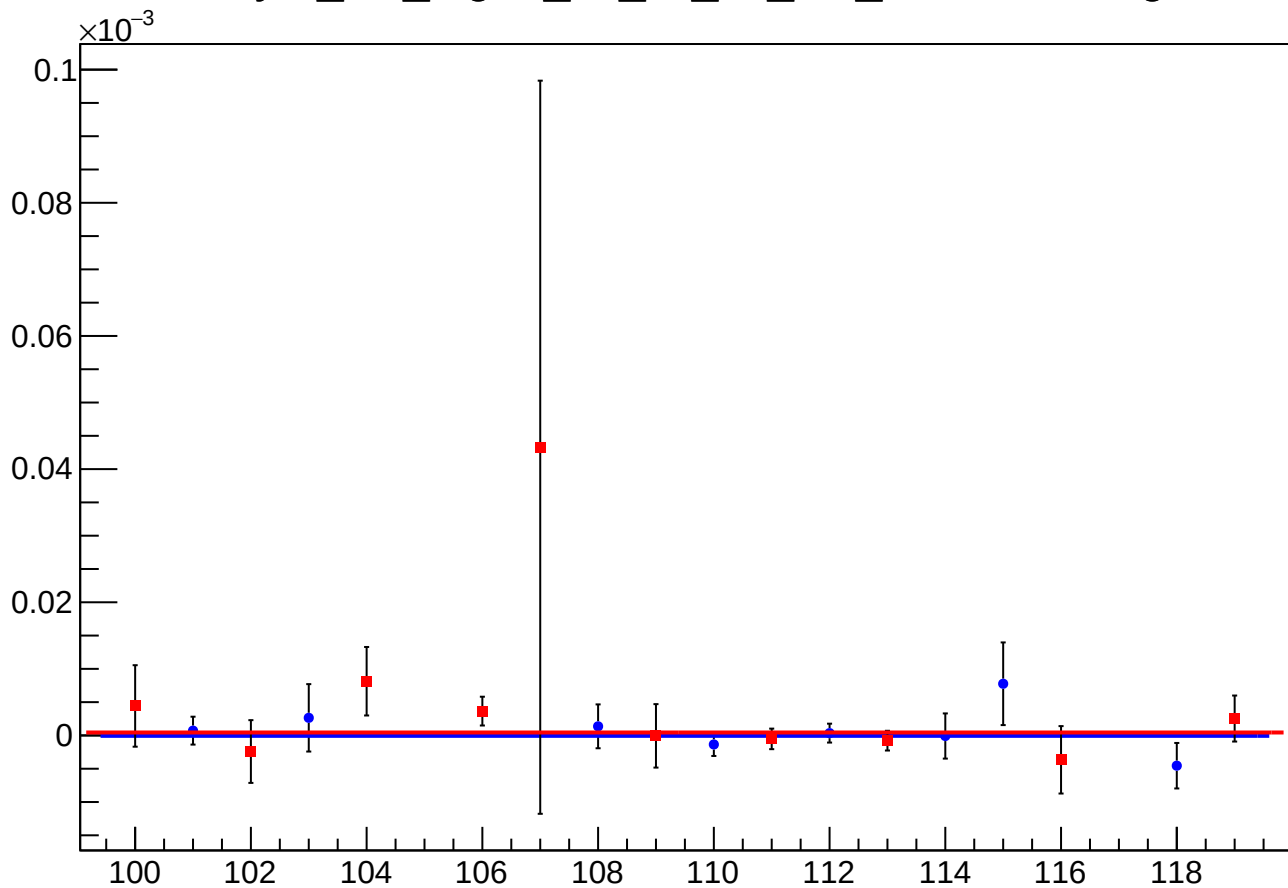
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 63.785+/-0.018  $\chi^2/\text{NDF}$ : 841318.0/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 4.6/7

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.0/9

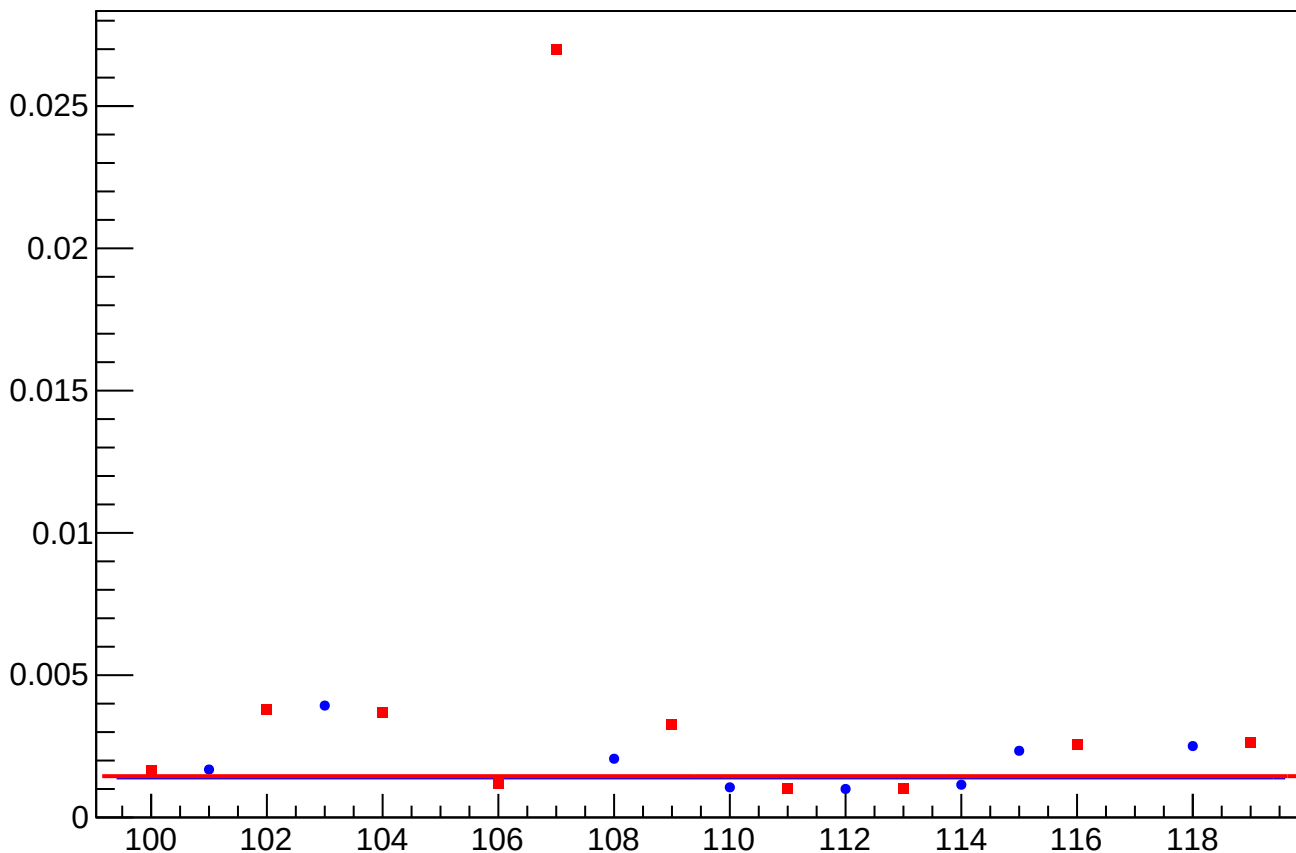
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.7/17

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

# asym\_usl\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1122025.7/7

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

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2273969.1/9

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

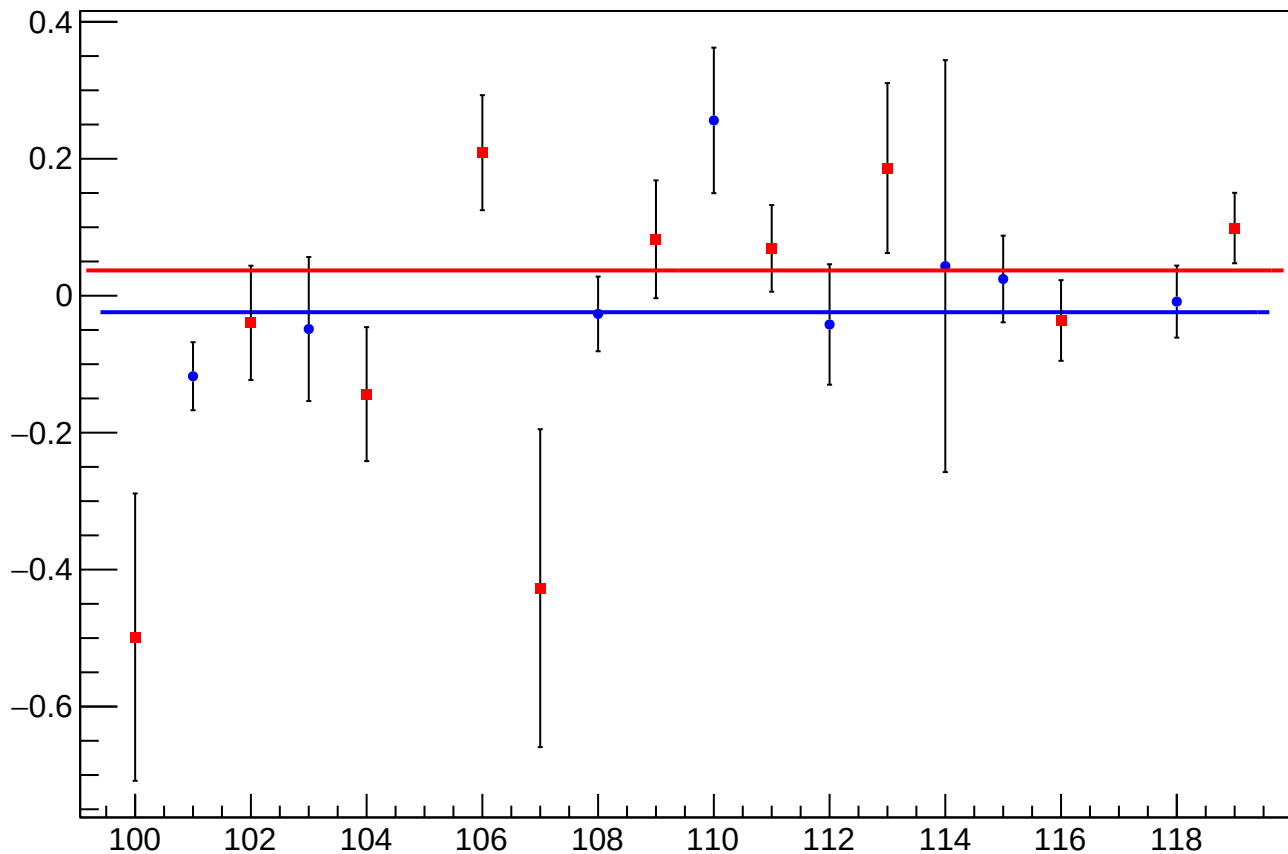
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3398586.2/17

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



# asym\_usl\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.024 $\pm$ 0.024  $\chi^2$ /NDF: 11.3/7

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

Right Out: 0.037 $\pm$ 0.025  $\chi^2$ /NDF: 23.9/9

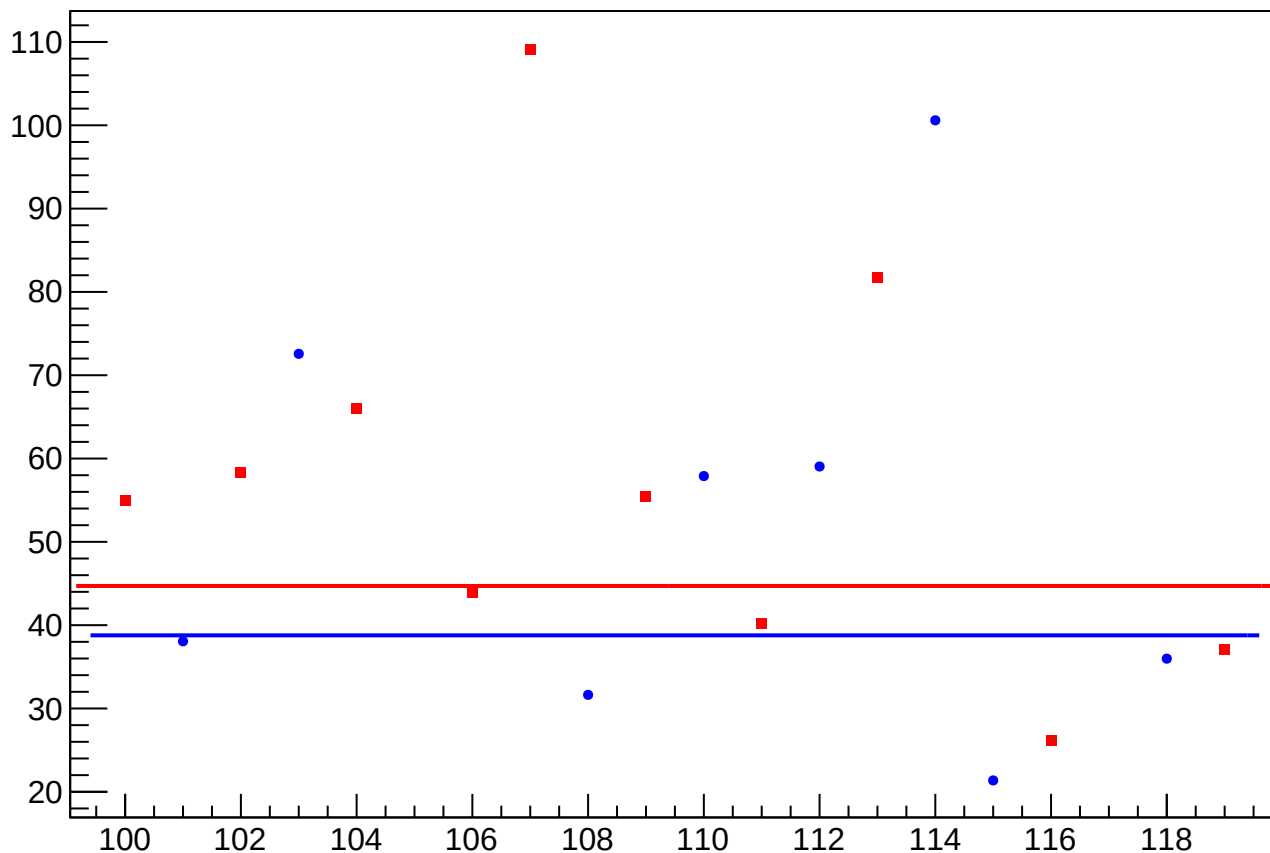
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.005 $\pm$ 0.018  $\chi^2$ /NDF: 38.2/17

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

# asym\_usl\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 38.780+/-0.017  $\chi^2/\text{NDF}$ : 653714.6/7

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

Right Out: 44.706+/-0.018  $\chi^2/\text{NDF}$ : 766781.9/9

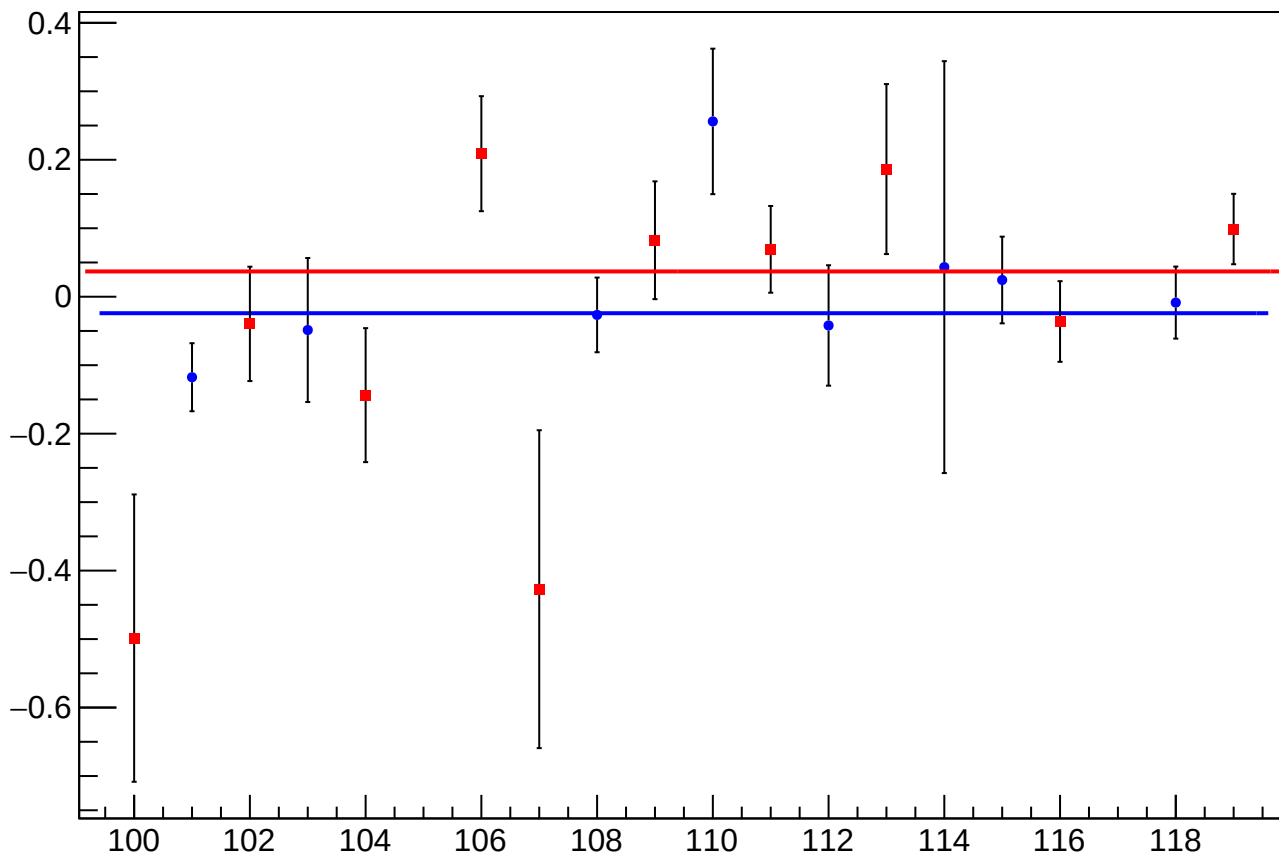
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 41.628+/-0.012  $\chi^2/\text{NDF}$ : 1476936.0/17

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

asym\_usl\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.024 $\pm$ 0.024  $\chi^2$ /NDF: 11.3/7

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

Right Out: 0.037 $\pm$ 0.025  $\chi^2$ /NDF: 23.9/9

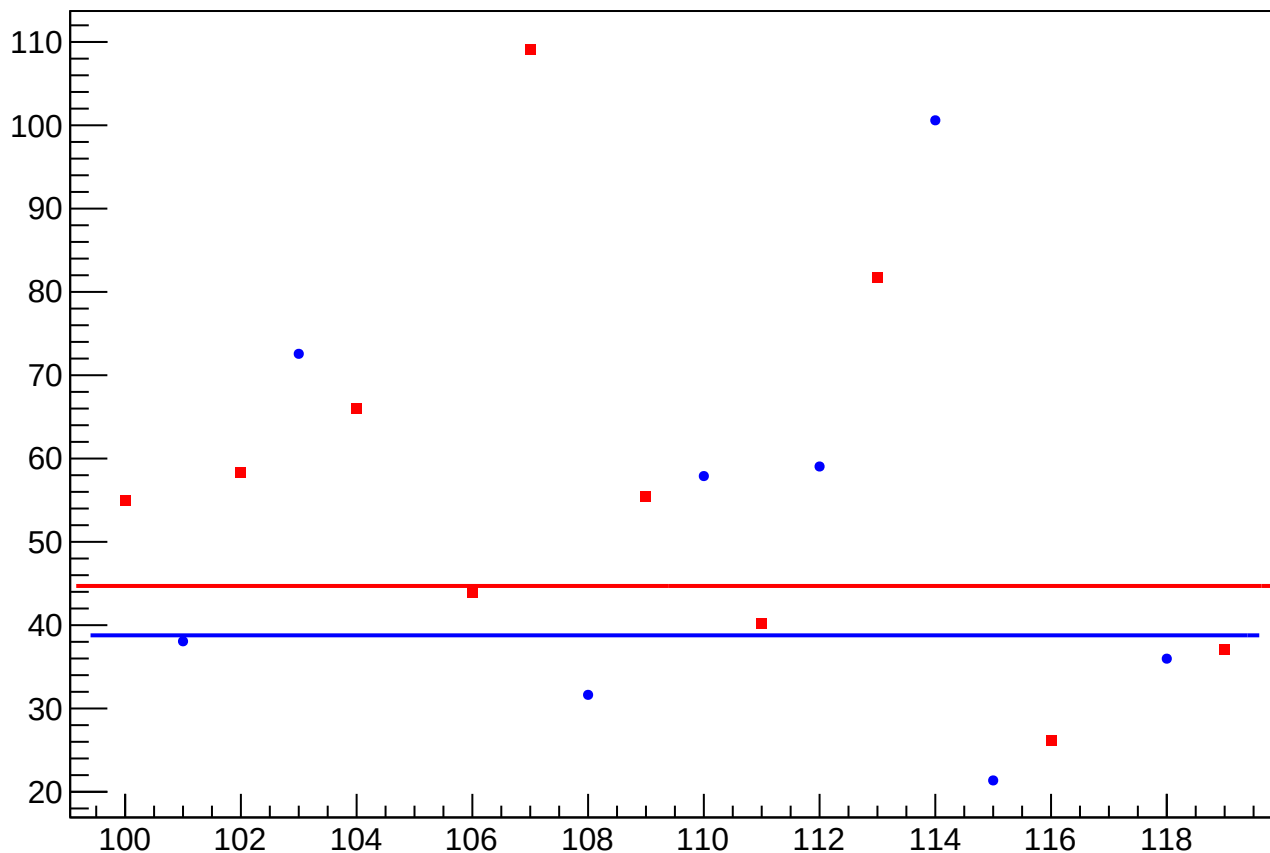
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 0.005 $\pm$ 0.018  $\chi^2$ /NDF: 38.2/17

- 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: 38.780+/-0.017  $\chi^2/\text{NDF}$ : 653714.6/7

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

Right Out: 44.706+/-0.018  $\chi^2/\text{NDF}$ : 766781.9/9

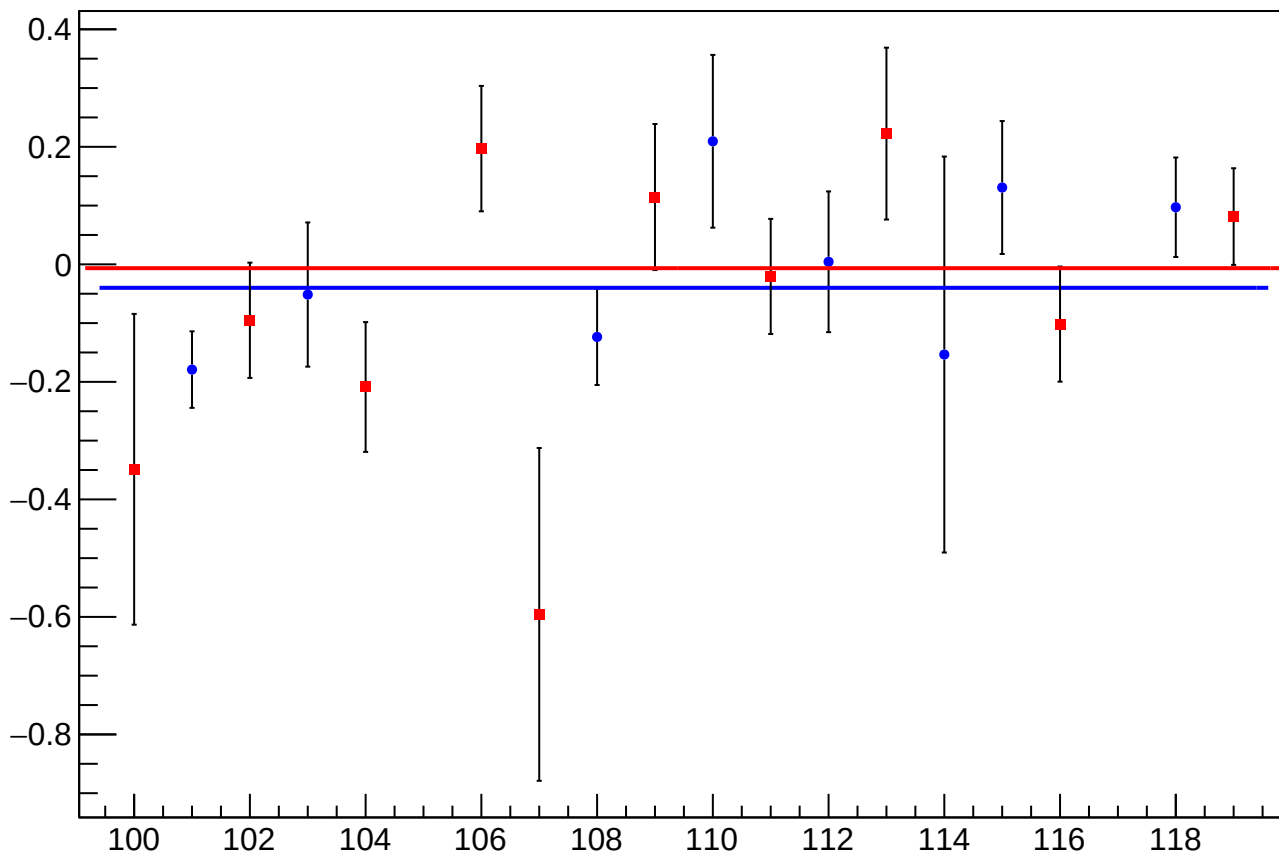
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 41.628+/-0.012  $\chi^2/\text{NDF}$ : 1476936.0/17

- 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: -0.040+/-0.035  $\chi^2/\text{NDF}$ : 13.6/7

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

Right Out: -0.007+/-0.036  $\chi^2/\text{NDF}$ : 19.3/9

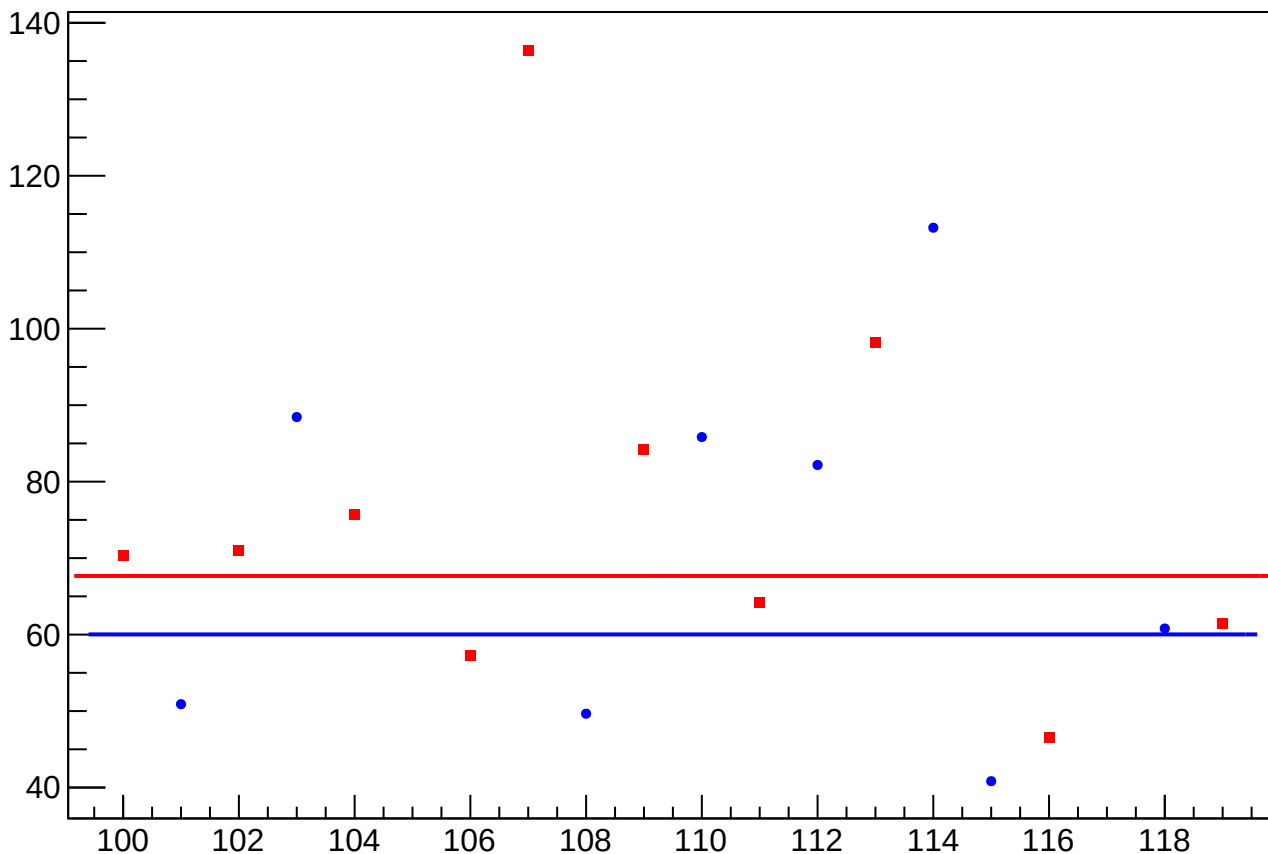
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.024+/-0.025  $\chi^2/\text{NDF}$ : 33.4/17

- 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: 60.024+/-0.025  $\chi^2/\text{NDF}$ : 416384.1/7

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

Right Out: 67.671+/-0.026  $\chi^2/\text{NDF}$ : 379260.2/9

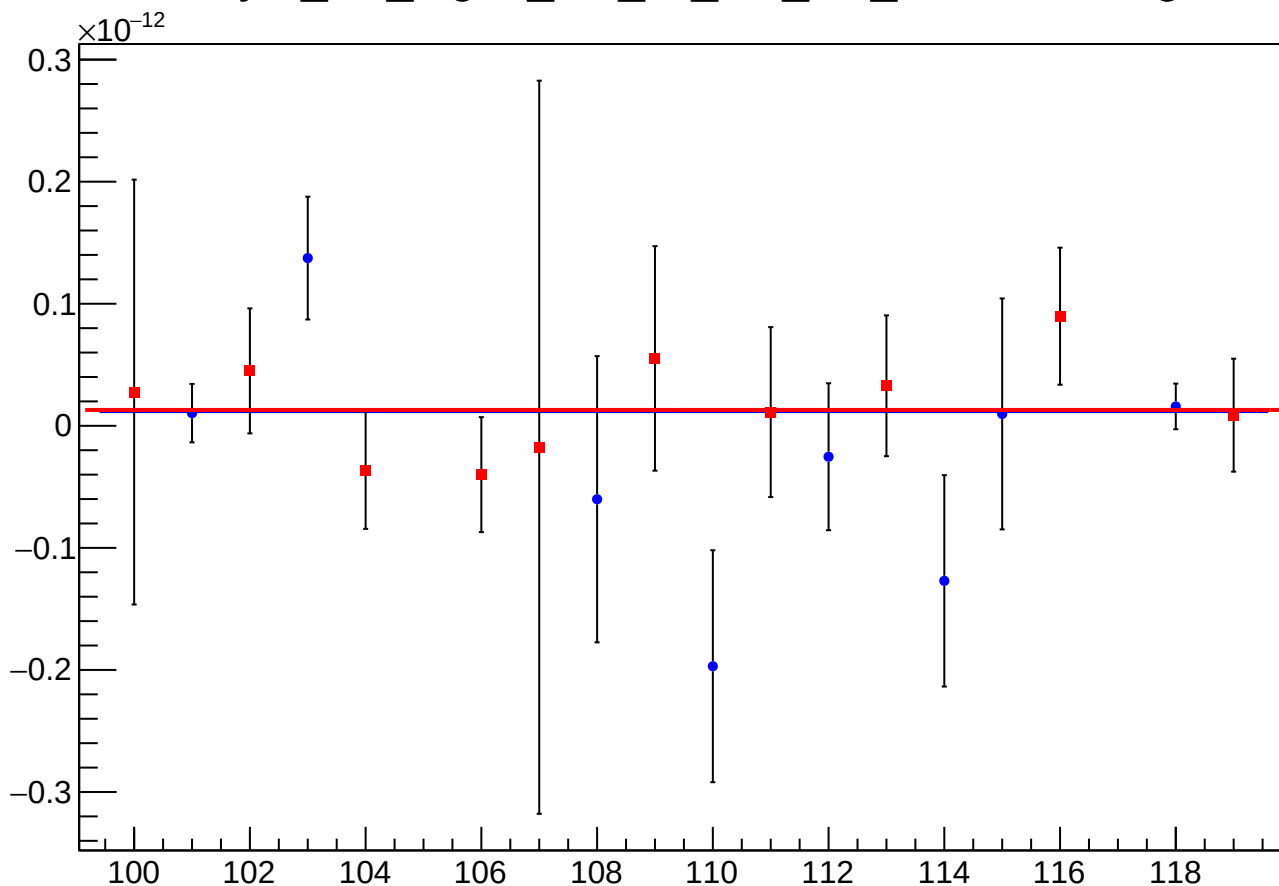
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 63.784+/-0.018  $\chi^2/\text{NDF}$ : 841312.7/17

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

# asym\_usl\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.4/7

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

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.9/9

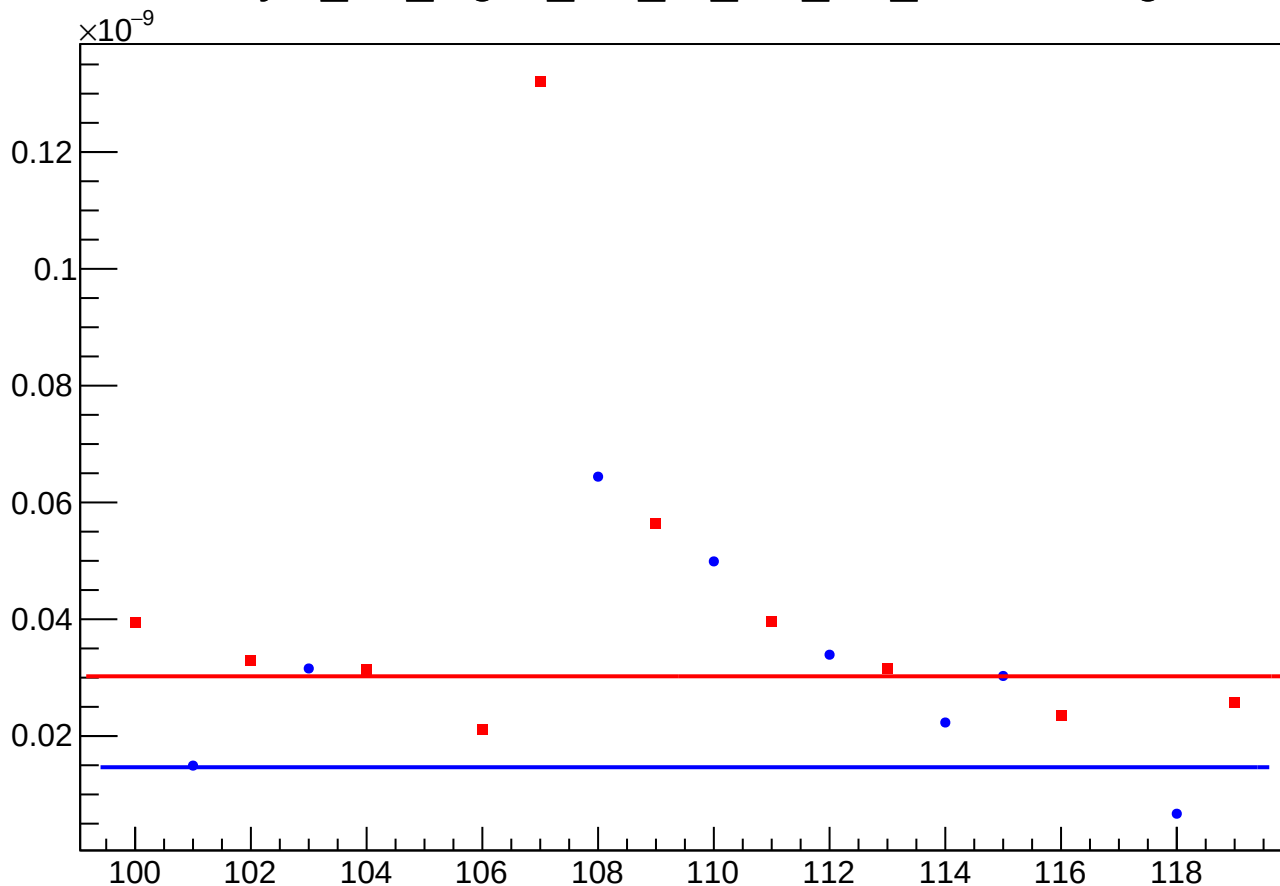
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.4/17

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

# asym\_usl\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1499438.4/7

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 564533.7/9

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

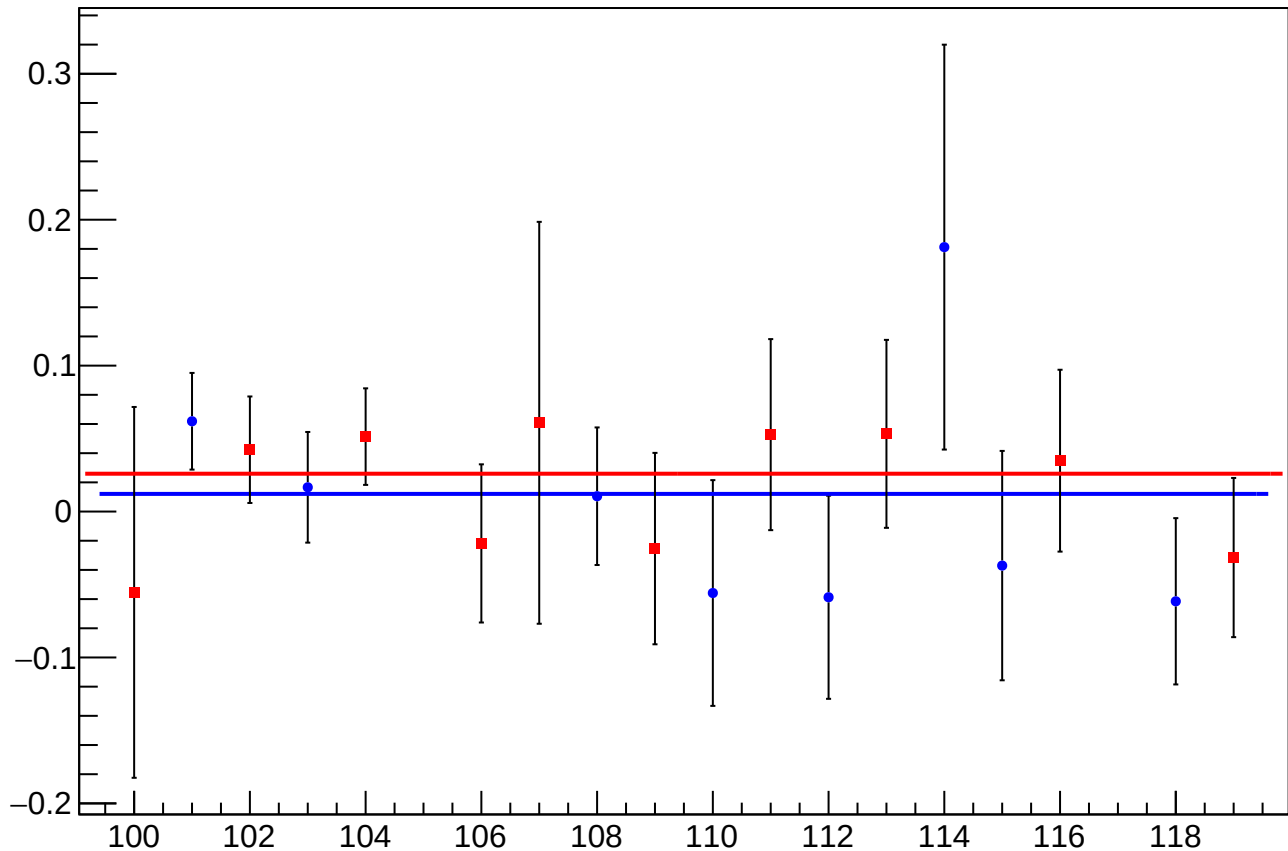
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2956590.2/17

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



asym\_usl\_overload\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.012 $\pm$ 0.018  $\chi^2$ /NDF: 7.6/7

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

Right Out: 0.026 $\pm$ 0.017  $\chi^2$ /NDF: 4.1/9

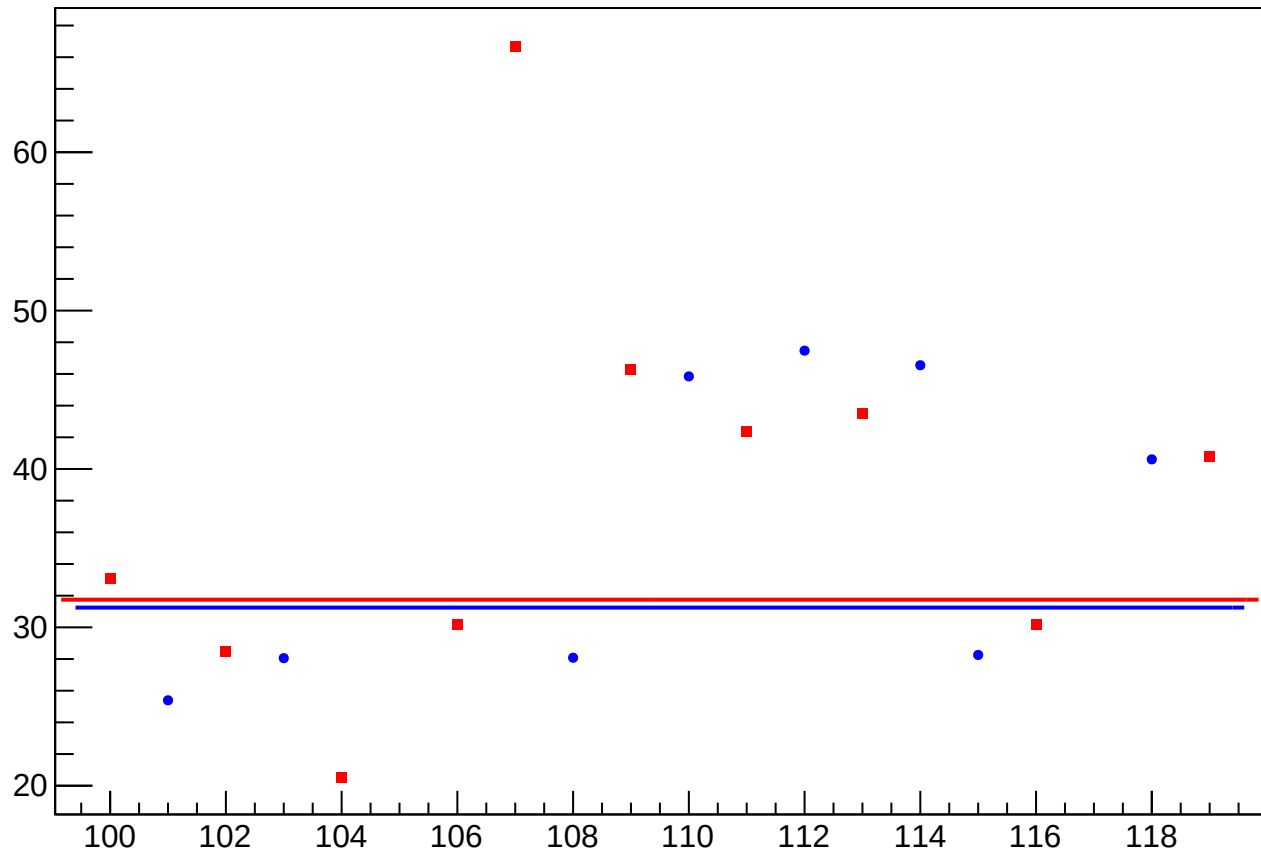
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.020 $\pm$ 0.013  $\chi^2$ /NDF: 12.1/17

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

# asym\_usl\_overload\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 31.248+/-0.013  $\chi^2/\text{NDF}$ : 346665.8/7

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

Right Out: 31.747+/-0.012  $\chi^2/\text{NDF}$ : 651184.0/9

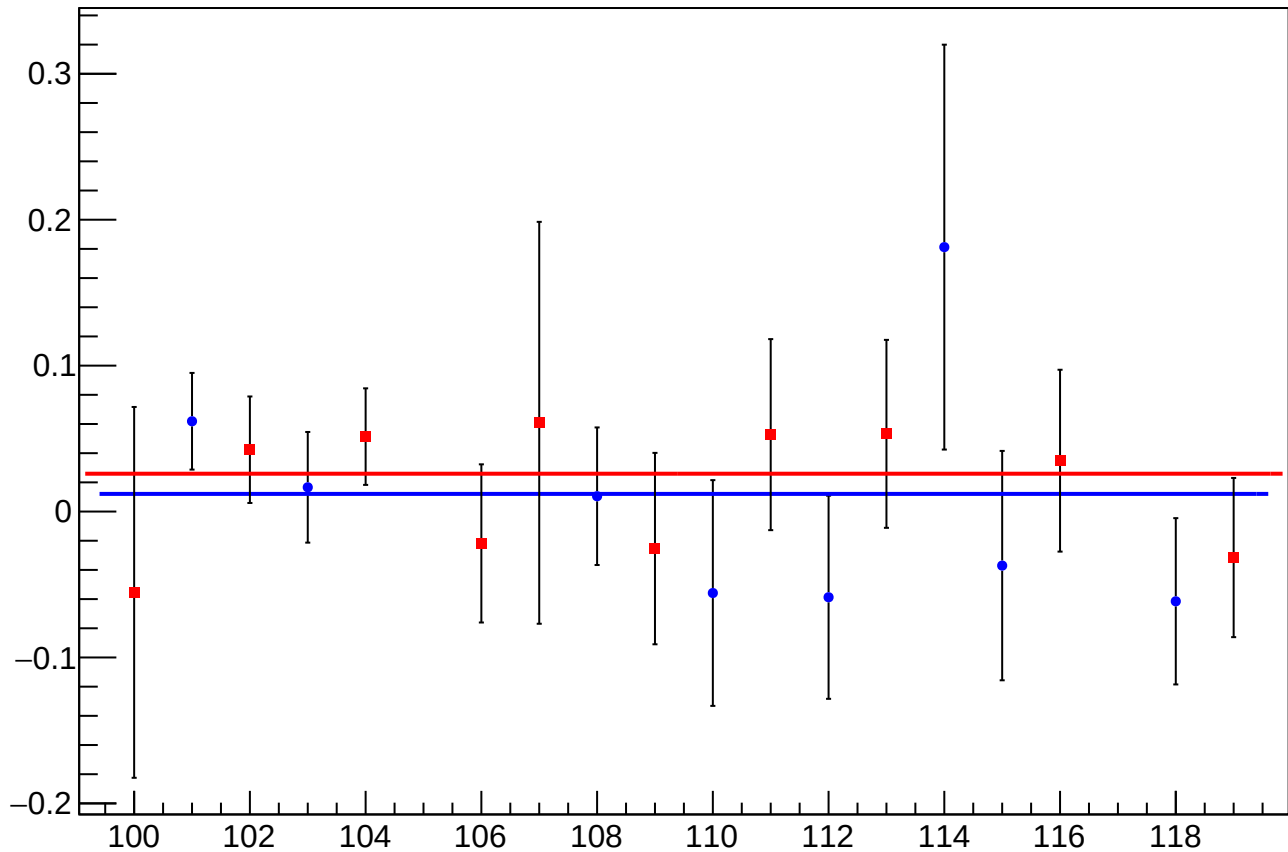
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 31.516+/-0.009  $\chi^2/\text{NDF}$ : 998639.1/17

- 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: 0.012 $\pm$ 0.018  $\chi^2$ /NDF: 7.6/7

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

Right Out: 0.026 $\pm$ 0.017  $\chi^2$ /NDF: 4.1/9

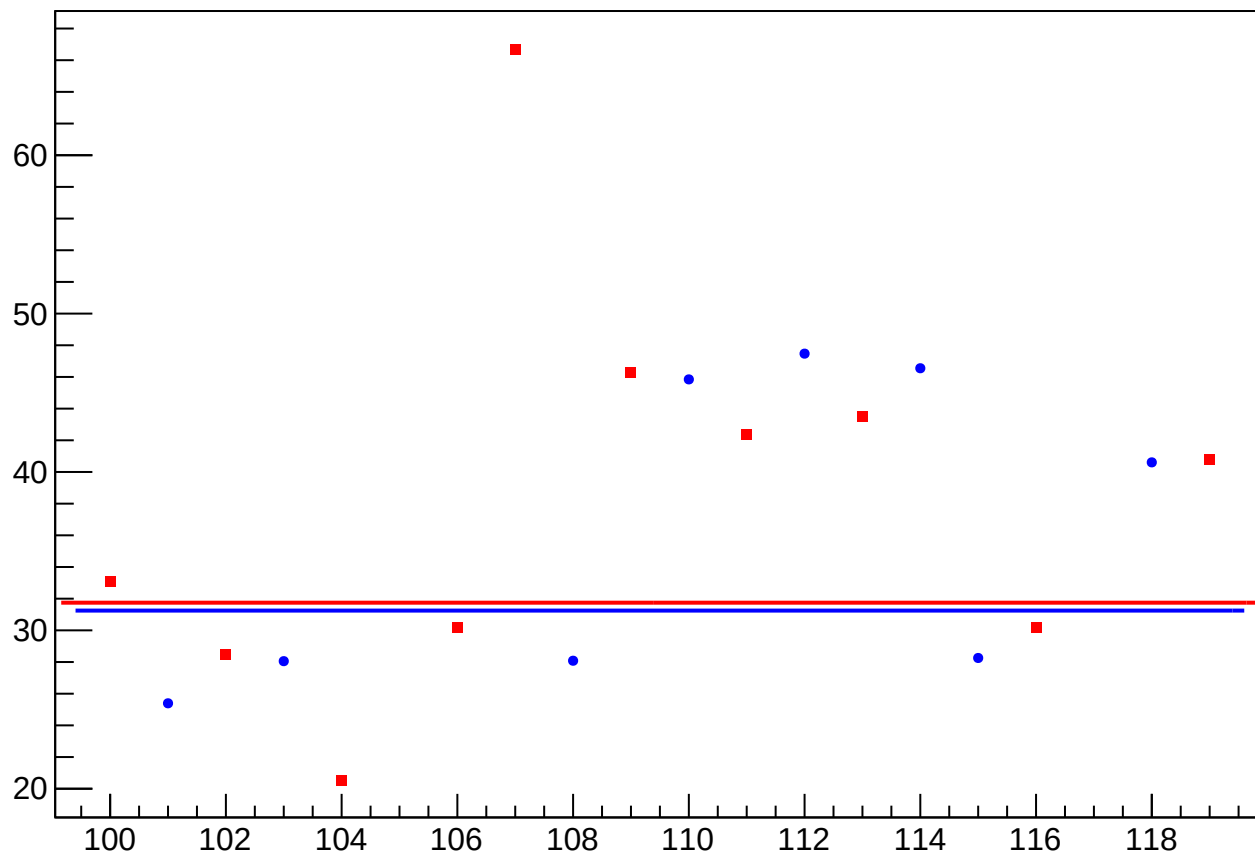
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.020 $\pm$ 0.013  $\chi^2$ /NDF: 12.1/17

- 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: 31.248+/-0.013  $\chi^2/\text{NDF}$ : 346665.8/7

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

Right Out: 31.747+/-0.012  $\chi^2/\text{NDF}$ : 651184.0/9

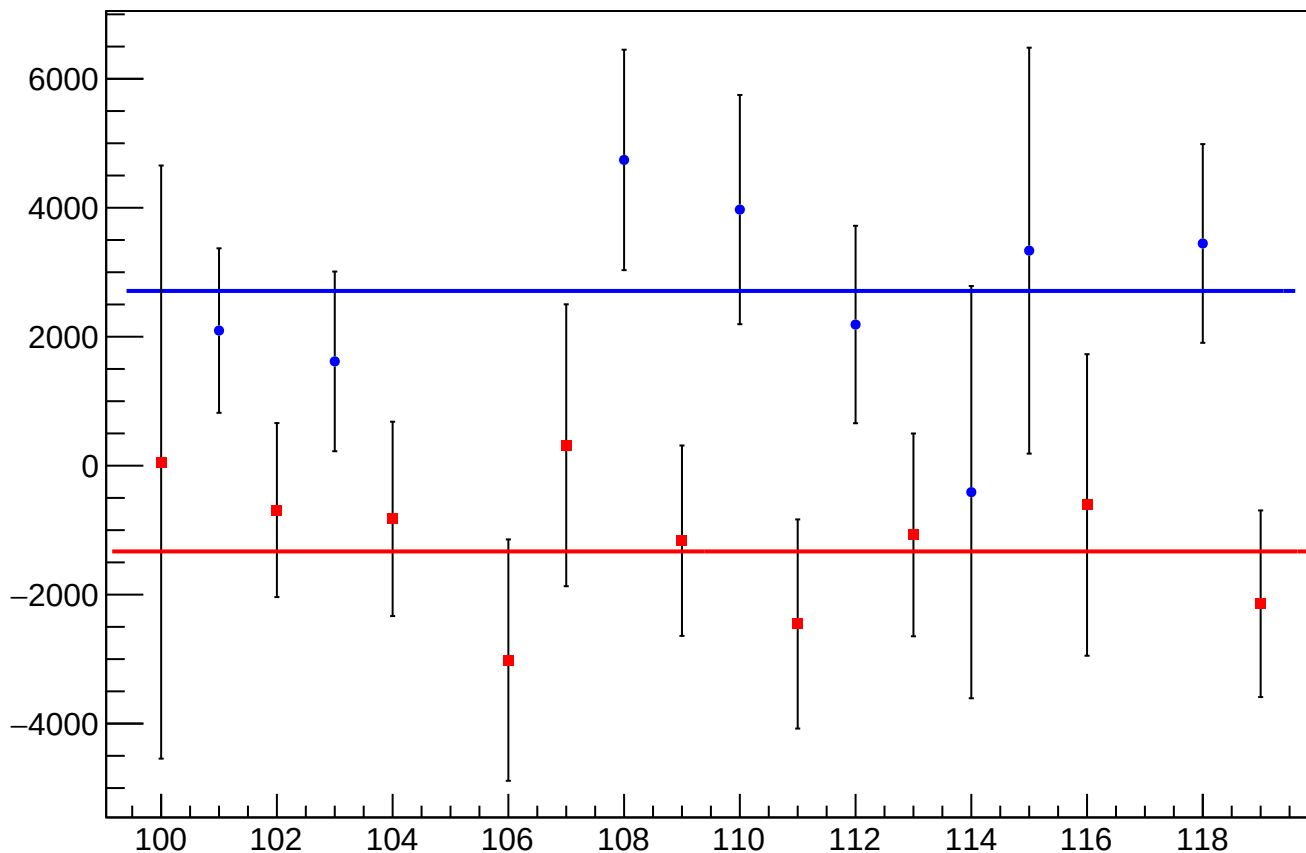
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 31.516+/-0.009  $\chi^2/\text{NDF}$ : 998639.1/17

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

# reg\_asym\_usr\_mean vs Slug



Right In: 2710.020+/-593.924  $\chi^2/\text{NDF}$ : 4.1/7

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

Right Out: -1330.041+/-539.591  $\chi^2/\text{NDF}$ : 2.7/9

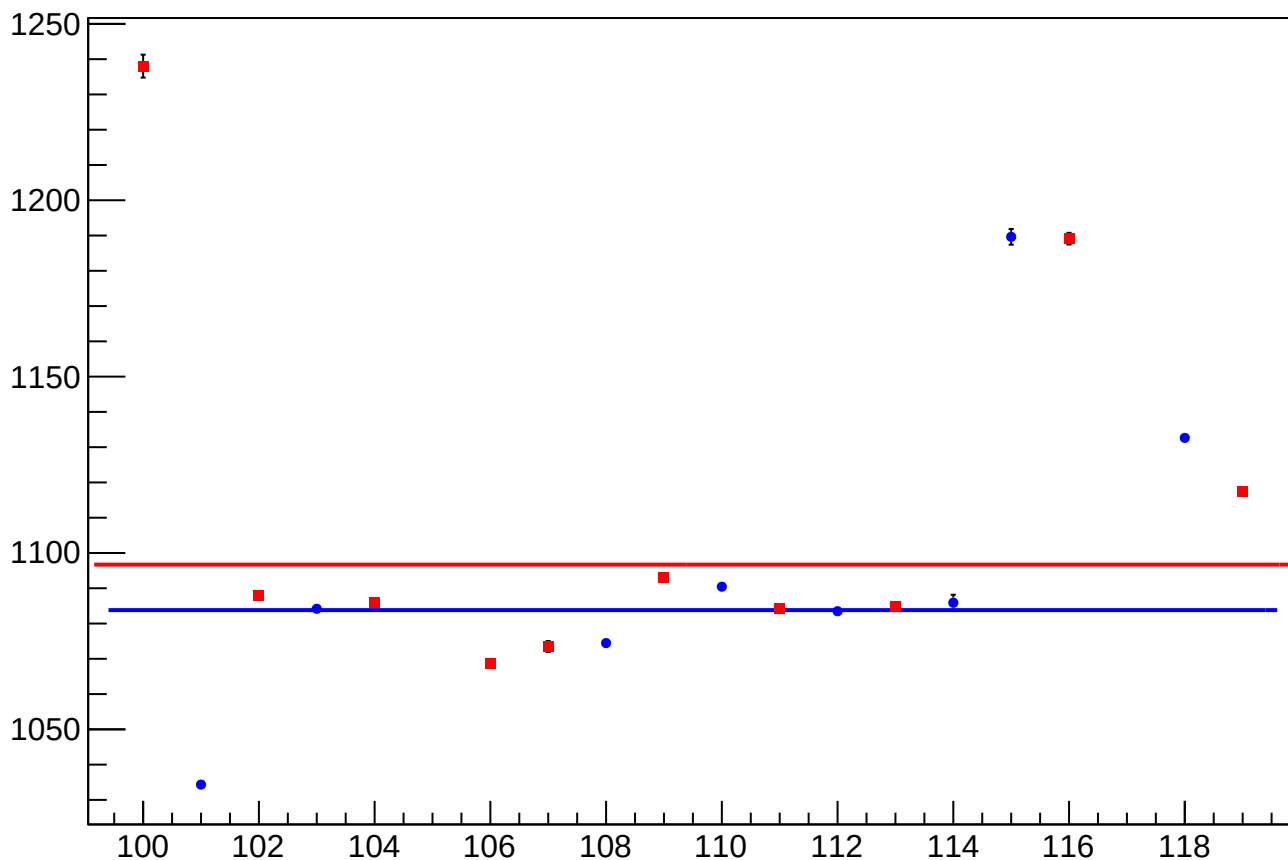
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 496.781+/-399.379  $\chi^2/\text{NDF}$ : 32.2/17

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

# reg\_asym\_usr\_rms vs Slug



Right In:  $1083.805 \pm 0.420$   $\chi^2/\text{NDF}$ : 7365.6/7

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

Right Out:  $1096.702 \pm 0.382$   $\chi^2/\text{NDF}$ : 6526.5/9

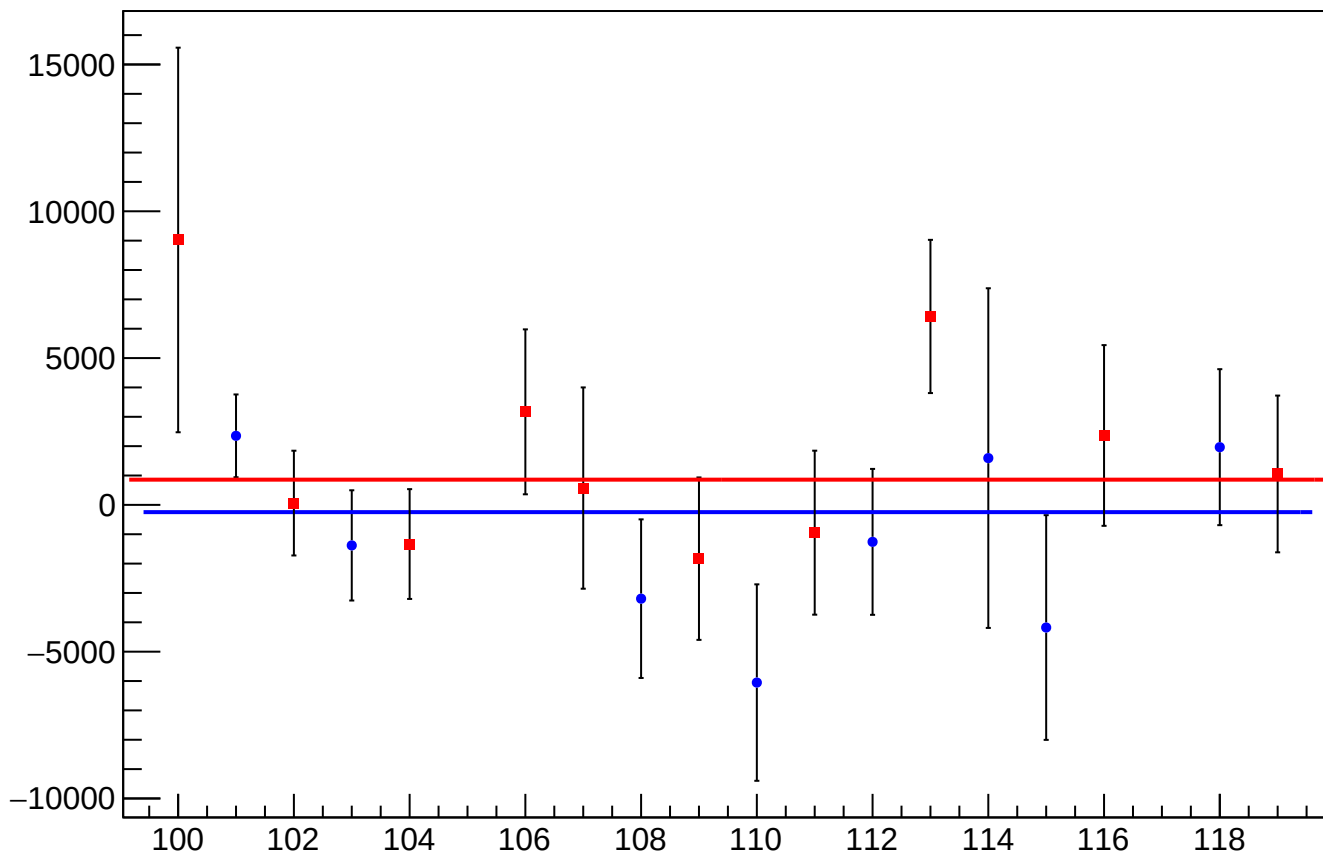
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $1090.870 \pm 0.282$   $\chi^2/\text{NDF}$ : 14408.7/17

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

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



Right In: -247.221 $\pm$ 840.606  $\chi^2$ /NDF: 10.0/7

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

Right Out: 858.979 $\pm$ 820.053  $\chi^2$ /NDF: 10.0/9

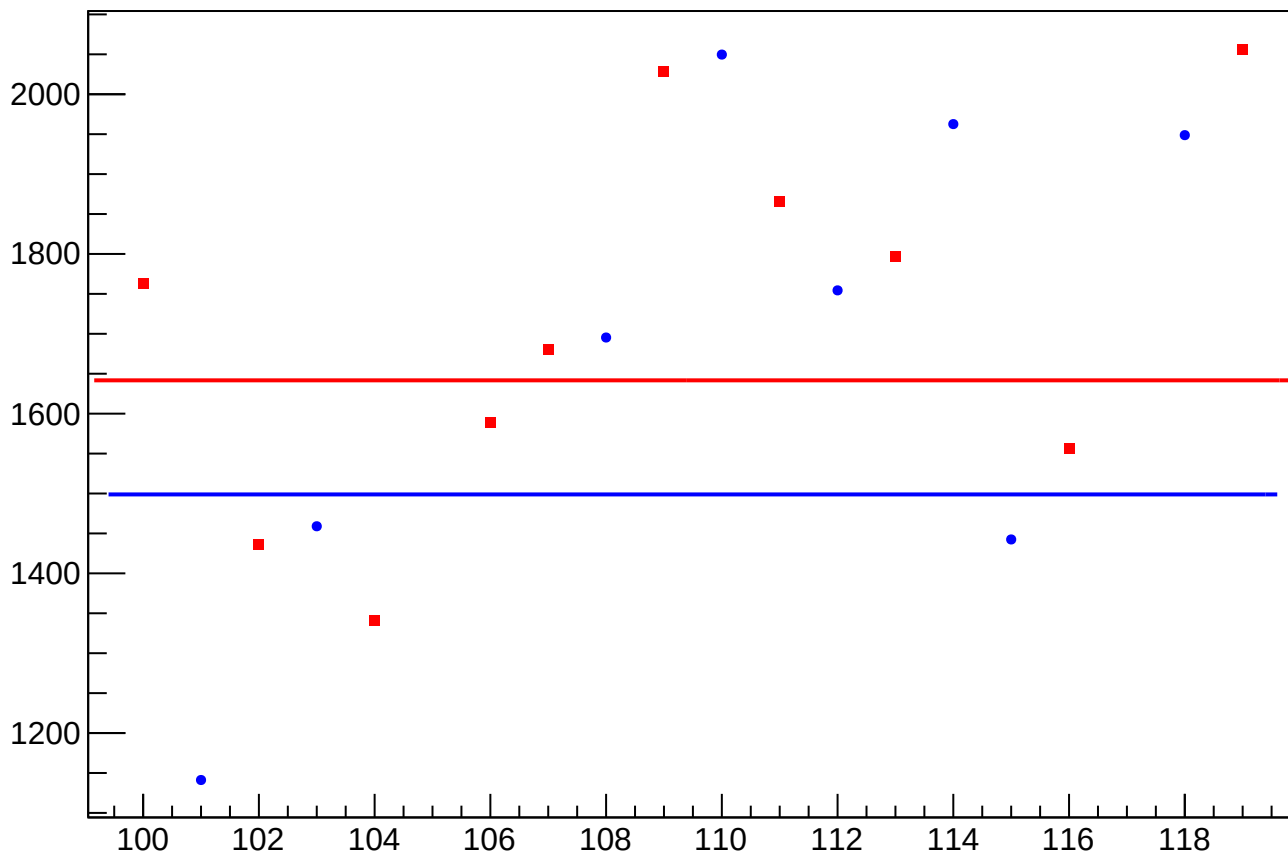
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 319.567 $\pm$ 586.997  $\chi^2$ /NDF: 20.8/17

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

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



Right In: 1498.846 $\pm$ 0.594  $\chi^2$ /NDF: 286252.7/7

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

Right Out: 1641.719 $\pm$ 0.580  $\chi^2$ /NDF: 188737.5/9

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

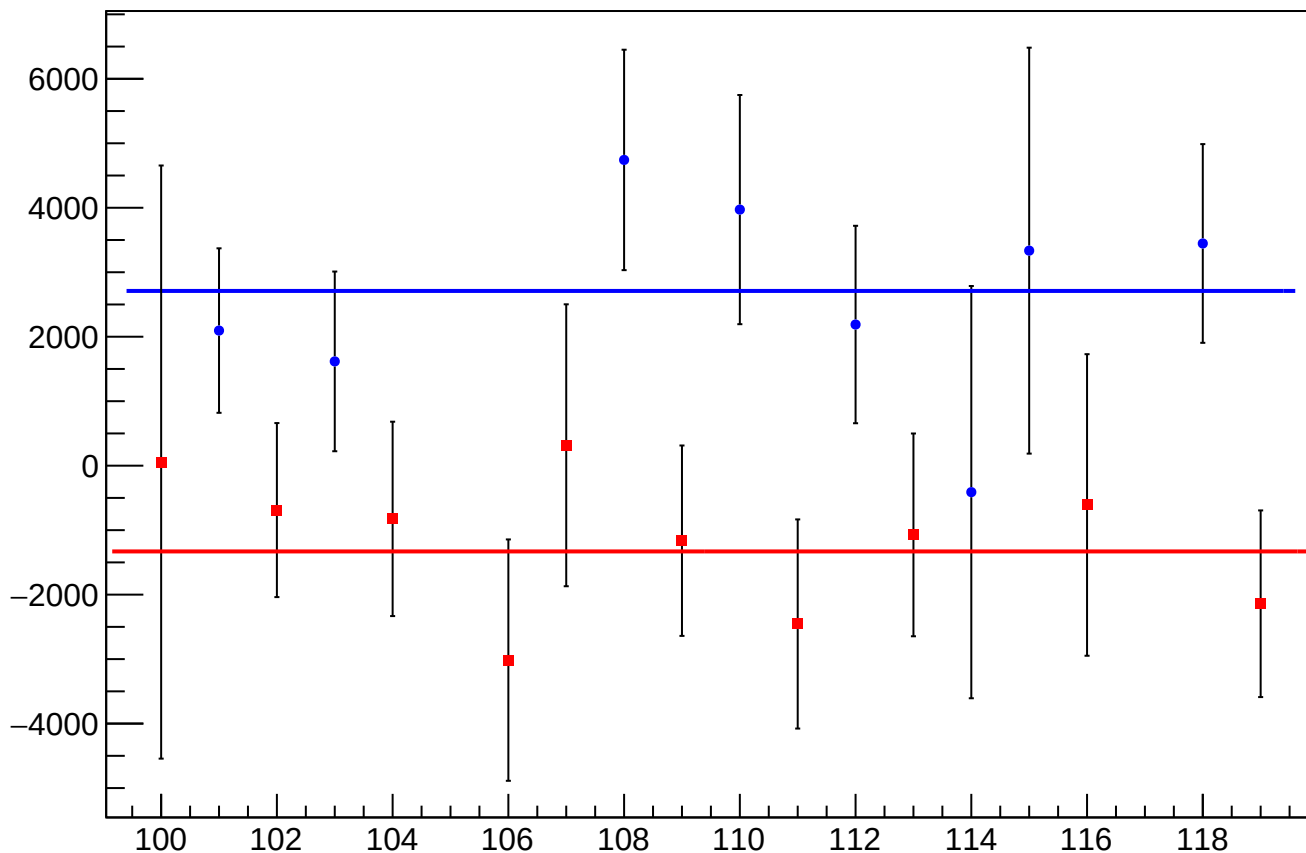
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1572.051 $\pm$ 0.415  $\chi^2$ /NDF: 504593.0/17

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



# cor\_asym\_usr\_mean vs Slug



Right In: 2710.020 $\pm$ 593.924  $\chi^2$ /NDF: 4.1/7

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

Right Out: -1330.041 $\pm$ 539.591  $\chi^2$ /NDF: 2.7/9

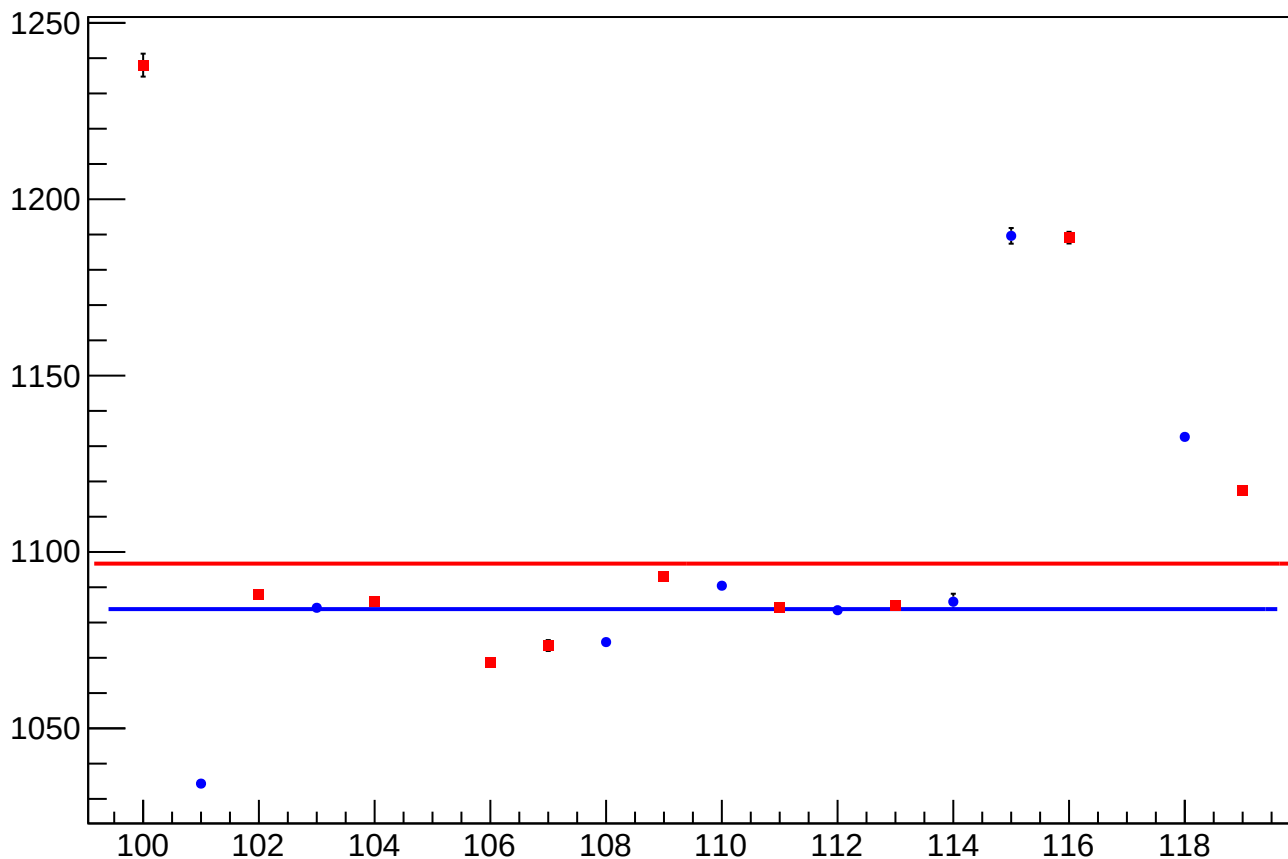
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 496.781 $\pm$ 399.379  $\chi^2$ /NDF: 32.2/17

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

# cor\_asym\_usr\_rms vs Slug



Right In: 1083.805 $\pm$ 0.420  $\chi^2$ /NDF: 7365.6/7

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

Right Out: 1096.702 $\pm$ 0.382  $\chi^2$ /NDF: 6526.5/9

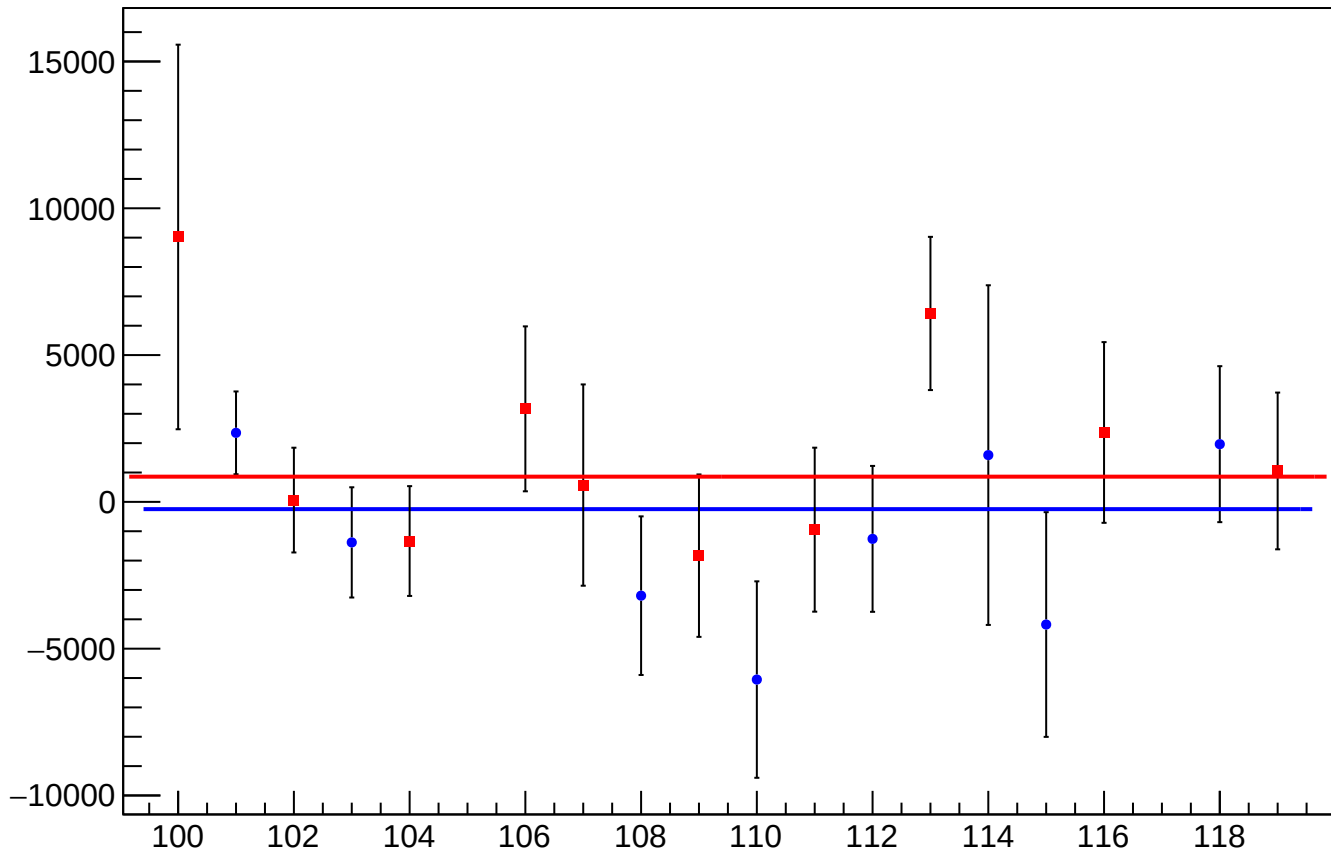
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1090.870 $\pm$ 0.282  $\chi^2$ /NDF: 14408.7/17

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

# asym\_usr\_cor\_correction\_mean vs Slug



Right In: -247.221 $\pm$ 840.606  $\chi^2$ /NDF: 10.0/7

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

Right Out: 858.979 $\pm$ 820.053  $\chi^2$ /NDF: 10.0/9

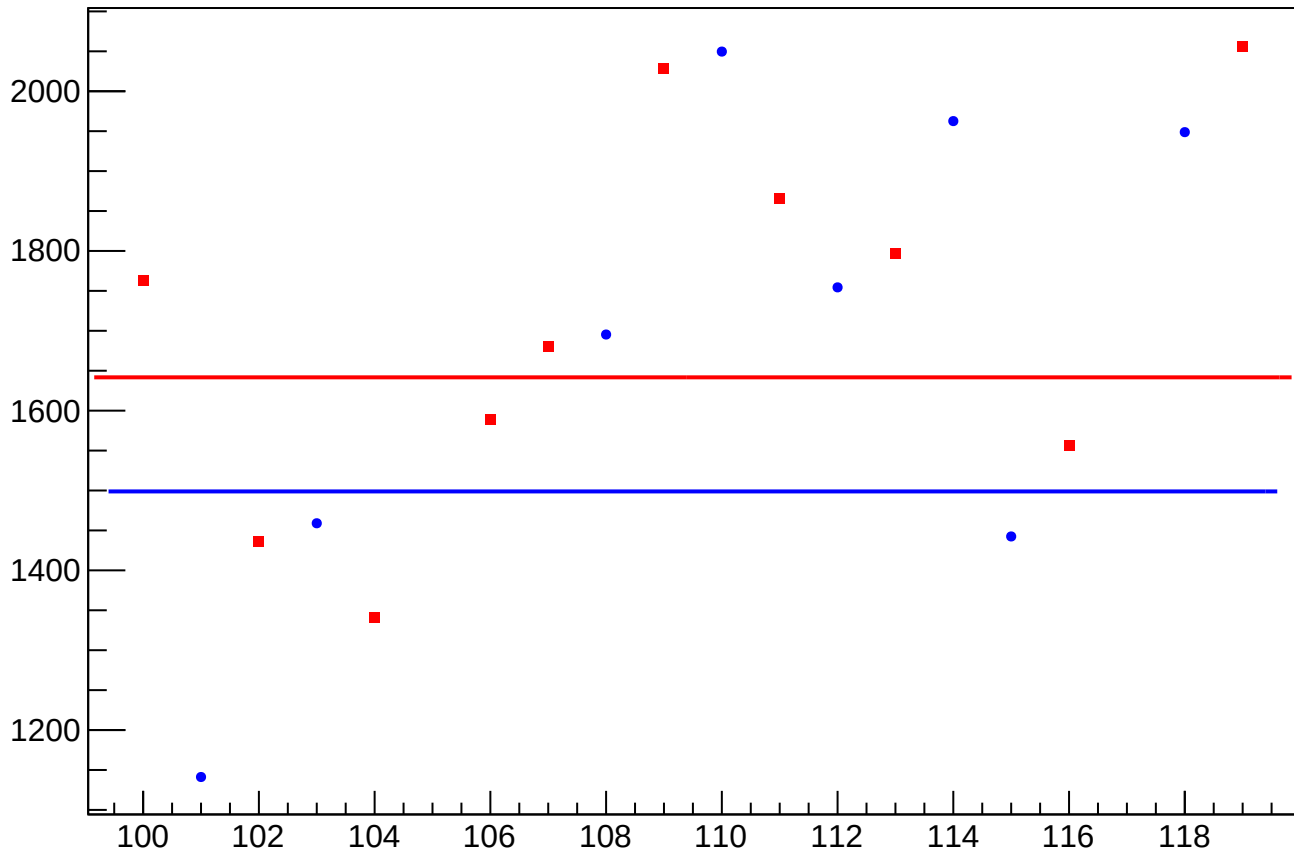
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 319.567 $\pm$ 586.997  $\chi^2$ /NDF: 20.8/17

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

# asym\_usr\_cor\_correction\_rms vs Slug



Right In: 1498.846 $\pm$ 0.594  $\chi^2$ /NDF: 286252.7/7

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

Right Out: 1641.719 $\pm$ 0.580  $\chi^2$ /NDF: 188737.5/9

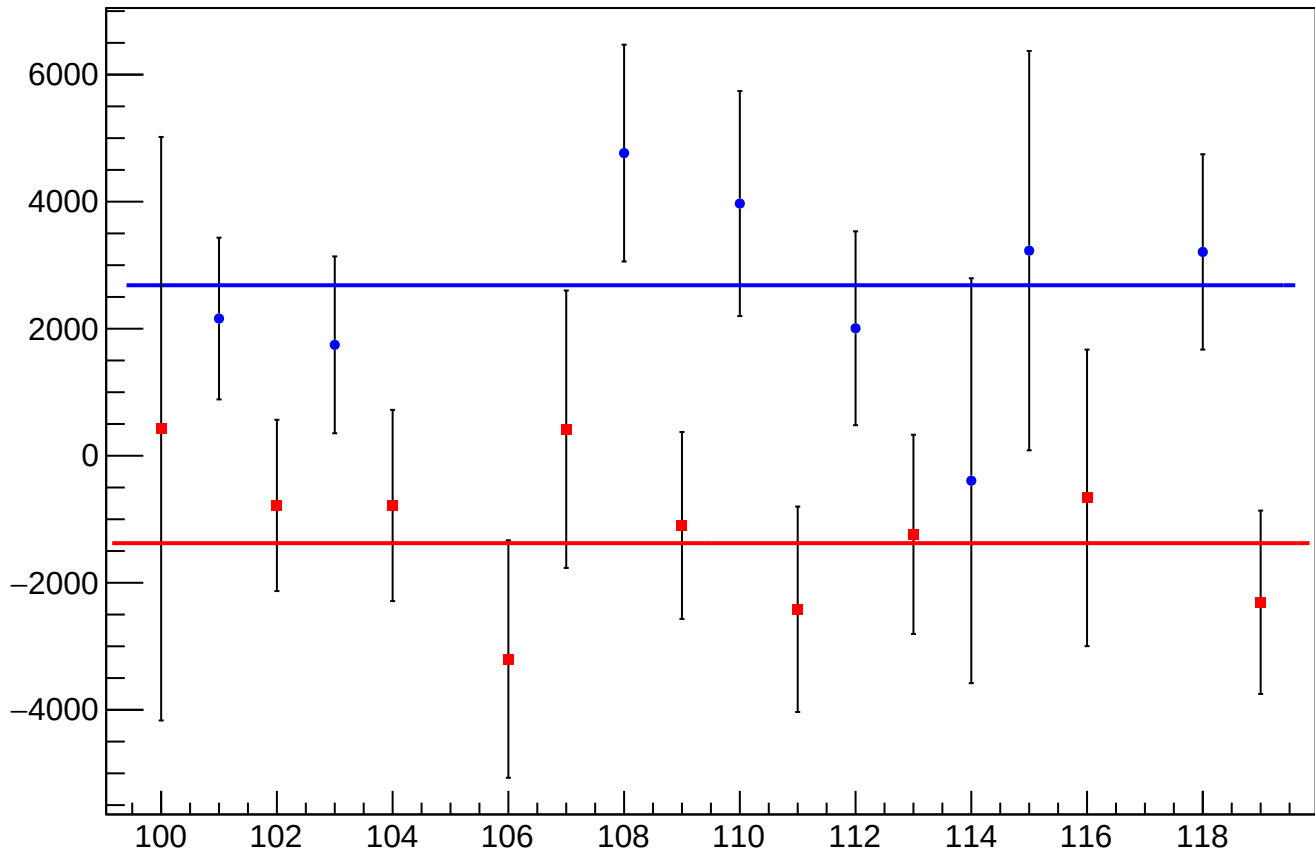
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1572.051 $\pm$ 0.415  $\chi^2$ /NDF: 504593.0/17

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

# overload\_cor\_asym\_usr\_mean vs Slug



Right In: 2684.121 $\pm$ 592.644  $\chi^2$ /NDF: 3.9/7

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

Right Out: -1376.372 $\pm$ 538.472  $\chi^2$ /NDF: 3.1/9

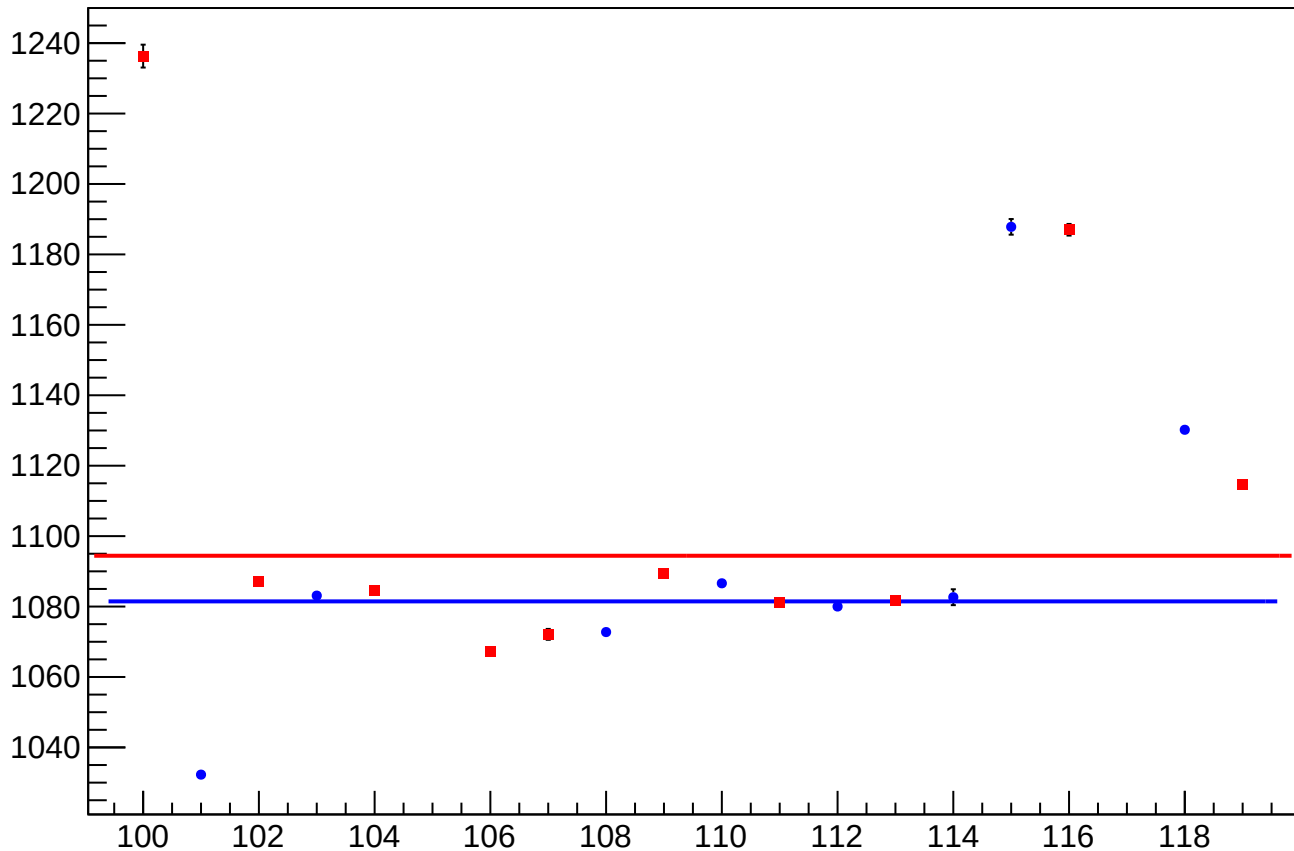
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 459.850 $\pm$ 398.536  $\chi^2$ /NDF: 32.7/17

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

# overload\_cor\_asym\_usr\_rms vs Slug



Right In: 1081.470+/-0.419  $\chi^2/\text{NDF}$ : 7359.4/7

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

Right Out: 1094.427+/-0.381  $\chi^2/\text{NDF}$ : 6514.1/9

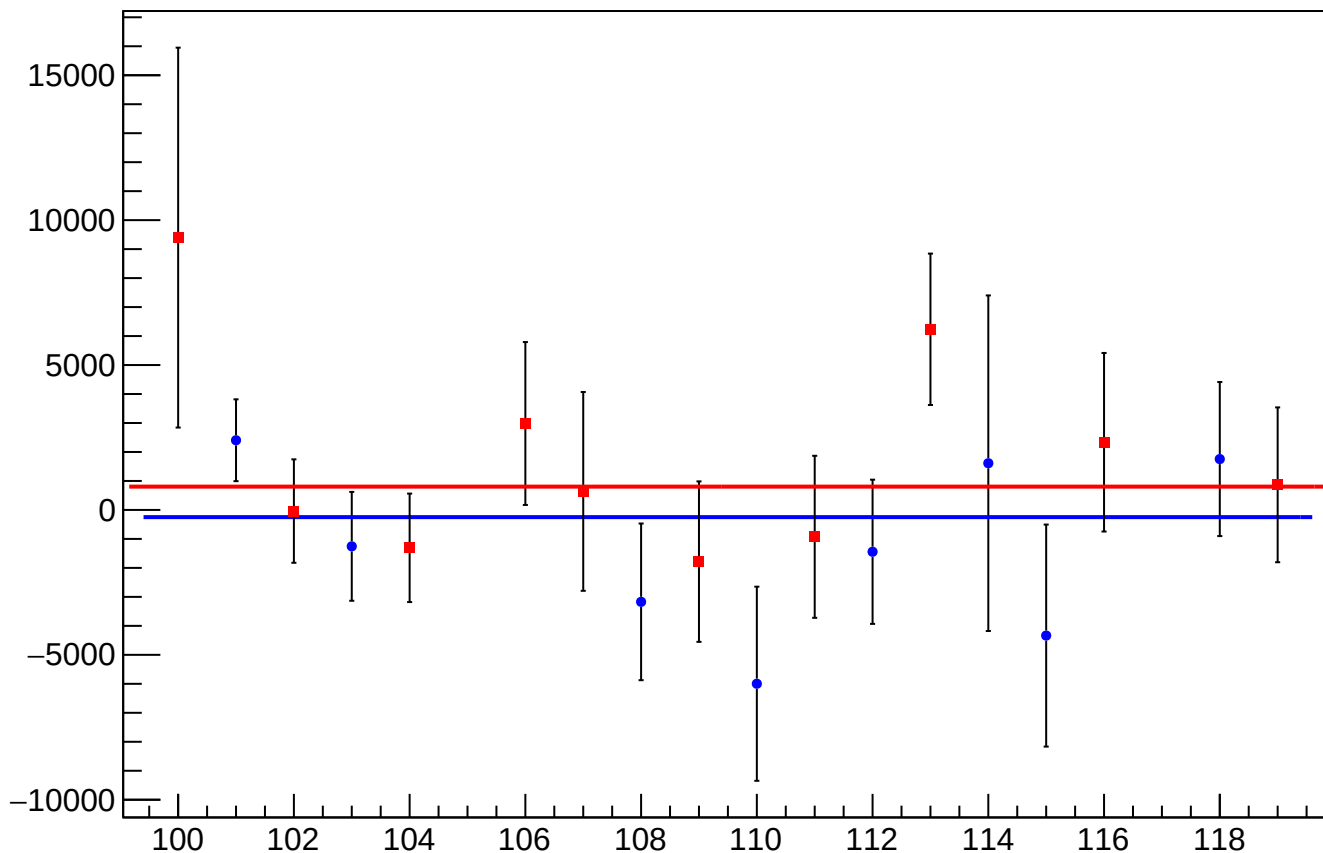
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1088.567+/-0.282  $\chi^2/\text{NDF}$ : 14397.2/17

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

asym\_usr\_overload\_cor\_correction\_mean vs Slug



Right In: -248.219+/-841.534  $\chi^2/\text{NDF}$ : 10.0/7

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

Right Out: 804.732+/-820.691  $\chi^2/\text{NDF}$ : 9.6/9

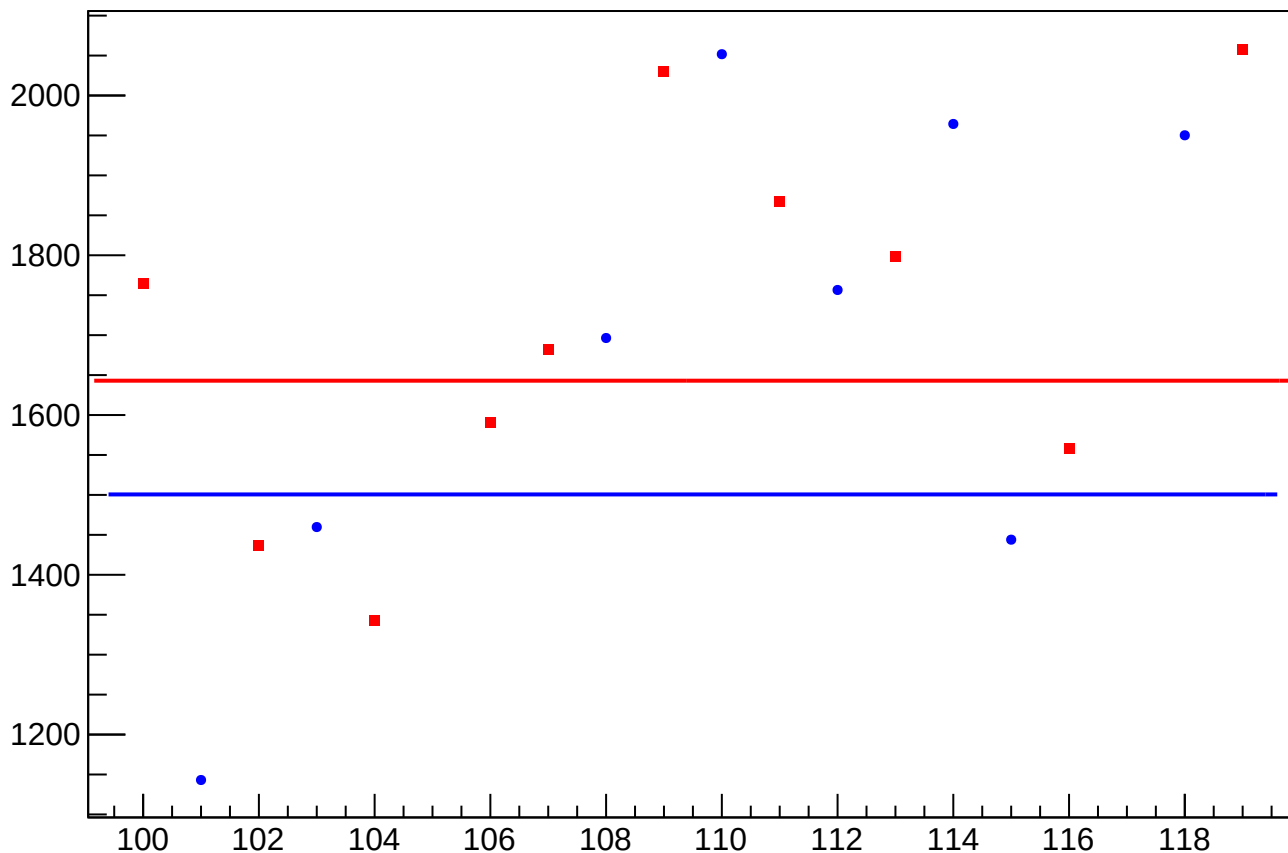
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 291.458+/-587.546  $\chi^2/\text{NDF}$ : 20.4/17

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

# asym\_usr\_overload\_cor\_correction\_rms vs Slug



Right In: 1500.603+/-0.595  $\chi^2/\text{NDF}$ : 285454.1/7

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

Right Out: 1642.989+/-0.580  $\chi^2/\text{NDF}$ : 188923.3/9

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

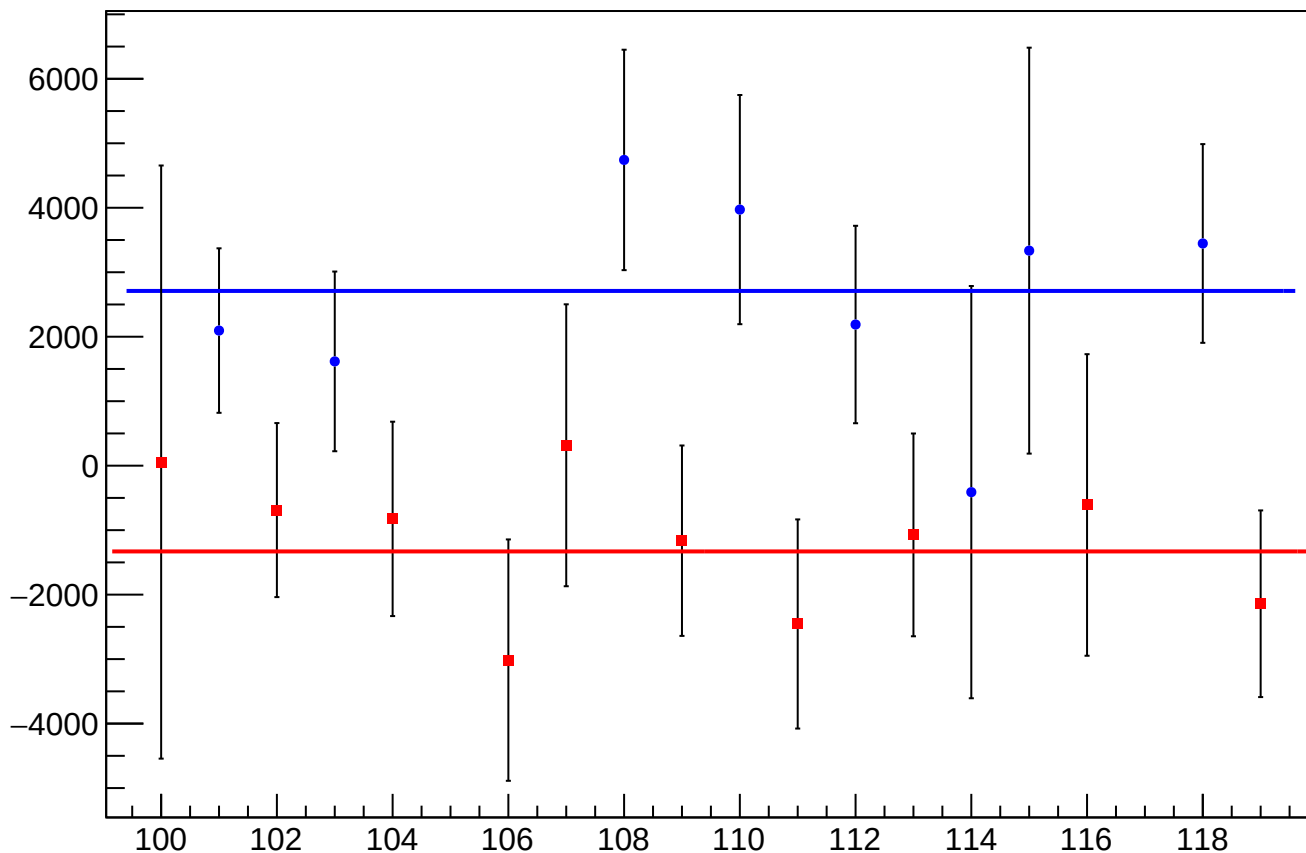
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1573.581+/-0.415  $\chi^2/\text{NDF}$ : 503723.1/17

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



# eigen\_cor\_asym\_usr\_mean vs Slug



Right In: 2710.020 $\pm$ 593.924  $\chi^2$ /NDF: 4.1/7

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

Right Out: -1330.041 $\pm$ 539.591  $\chi^2$ /NDF: 2.7/9

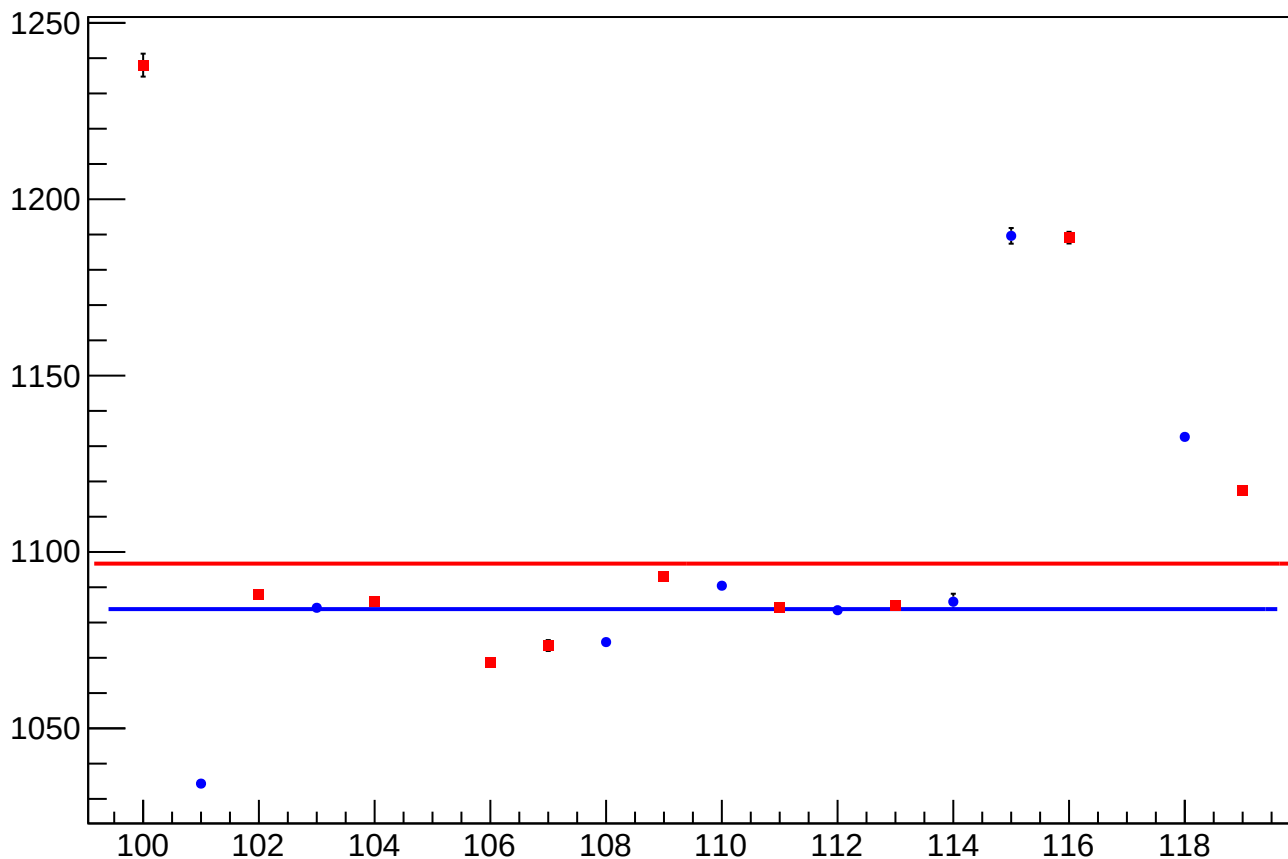
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 496.781 $\pm$ 399.379  $\chi^2$ /NDF: 32.2/17

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

# eigen\_cor\_asym\_usr\_rms vs Slug



Right In: 1083.805 $\pm$ 0.420  $\chi^2$ /NDF: 7365.6/7

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

Right Out: 1096.702 $\pm$ 0.382  $\chi^2$ /NDF: 6526.5/9

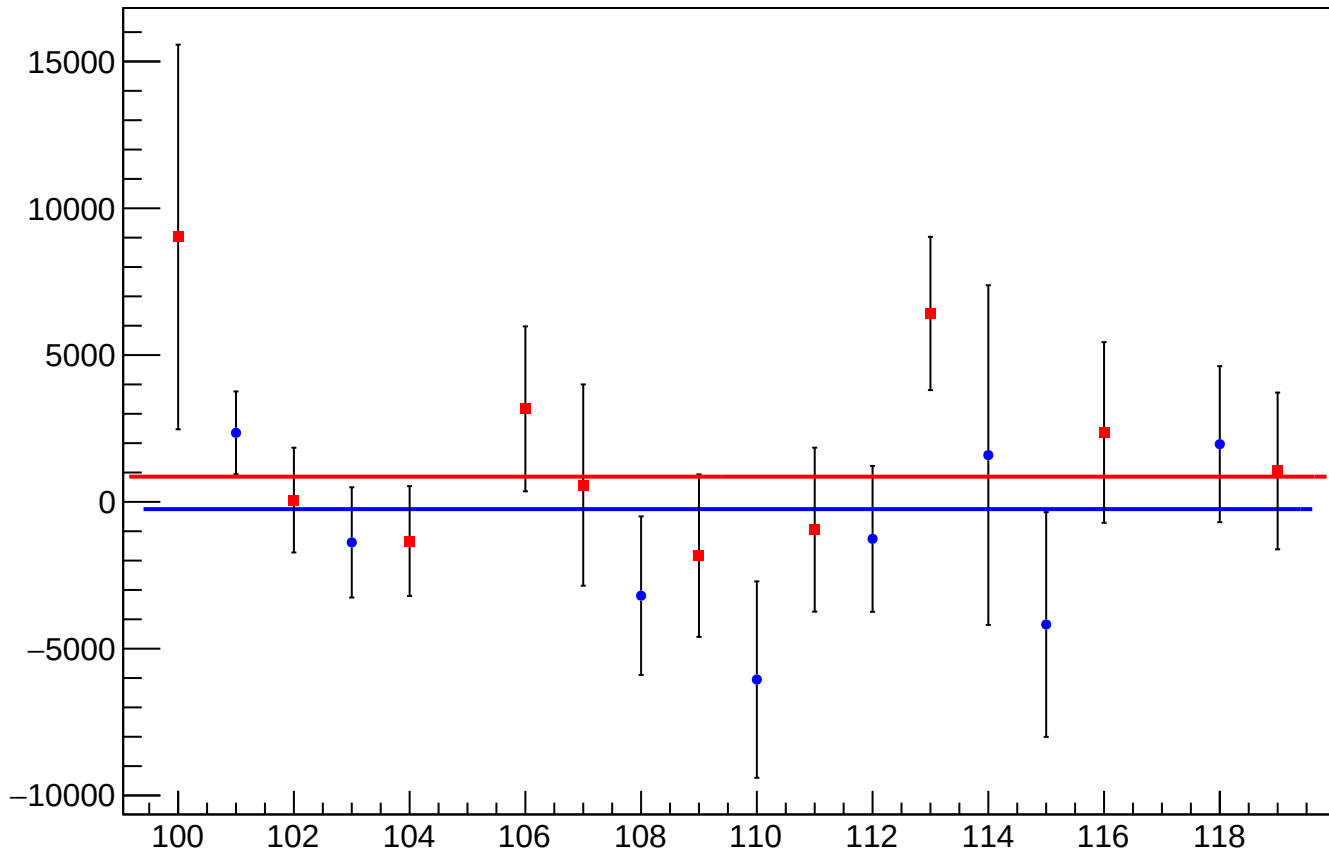
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1090.870 $\pm$ 0.282  $\chi^2$ /NDF: 14408.7/17

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

# asym\_usr\_eigen\_cor\_correction\_mean vs Slug



Right In: -247.221+/-840.606  $\chi^2/\text{NDF}$ : 10.0/7

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

Right Out: 858.979+/-820.053  $\chi^2/\text{NDF}$ : 10.0/9

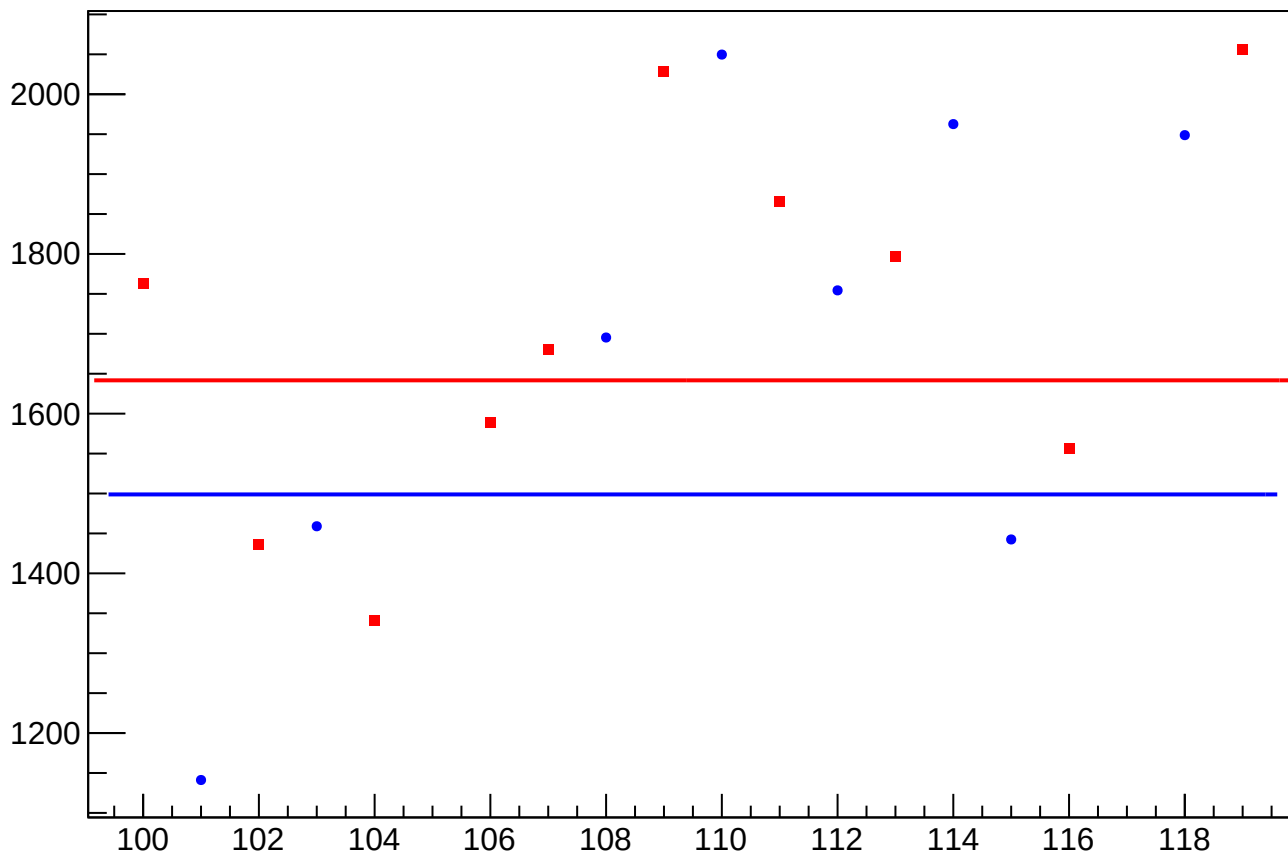
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 319.567+/-586.997  $\chi^2/\text{NDF}$ : 20.8/17

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

# asym\_usr\_eigen\_cor\_correction\_rms vs Slug



Right In: 1498.846+/-0.594     $\chi^2/\text{NDF}$ : 286252.7/7

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

Right Out: 1641.719+/-0.580     $\chi^2/\text{NDF}$ : 188737.5/9

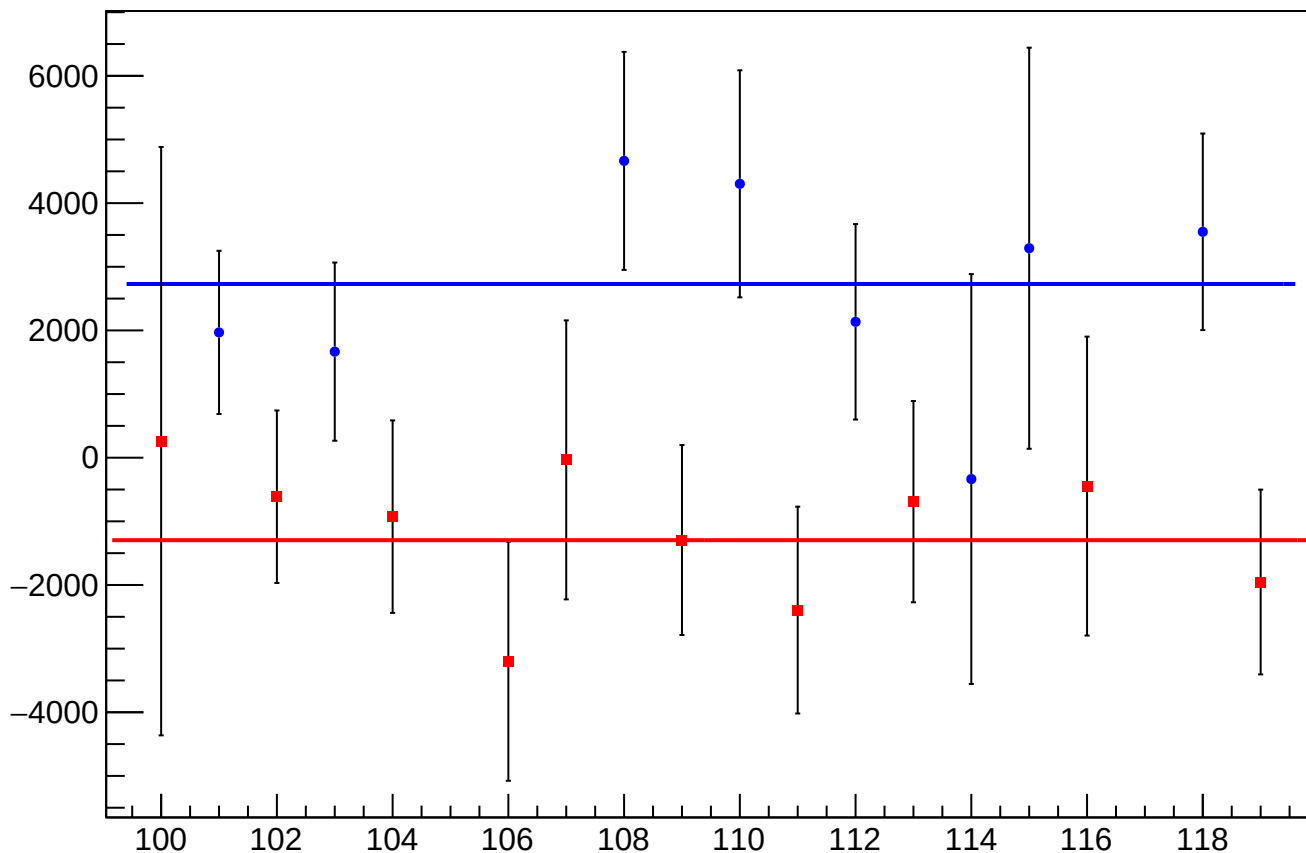
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1572.051+/-0.415     $\chi^2/\text{NDF}$ : 504593.0/17

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

# dit\_asym\_usr\_mean vs Slug



Right In: 2729.757 $\pm$ 596.115  $\chi^2$ /NDF: 4.4/7

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

Right Out: -1296.077 $\pm$ 542.050  $\chi^2$ /NDF: 2.7/9

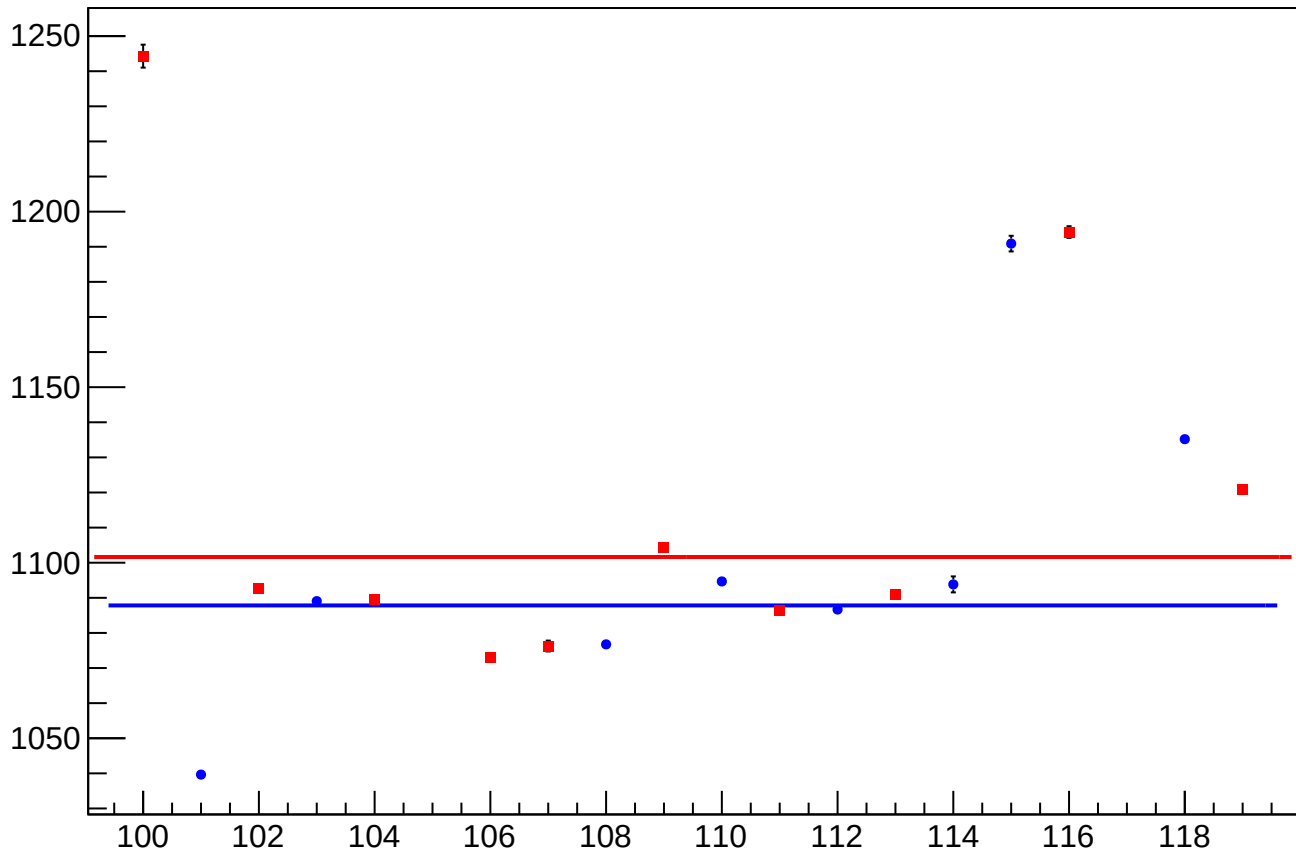
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 526.036 $\pm$ 401.042  $\chi^2$ /NDF: 32.0/17

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

# dit\_asym\_usr\_rms vs Slug



Right In: 1087.830+/-0.422  $\chi^2/\text{NDF}$ : 6967.9/7

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

Right Out: 1101.627+/-0.383  $\chi^2/\text{NDF}$ : 6587.3/9

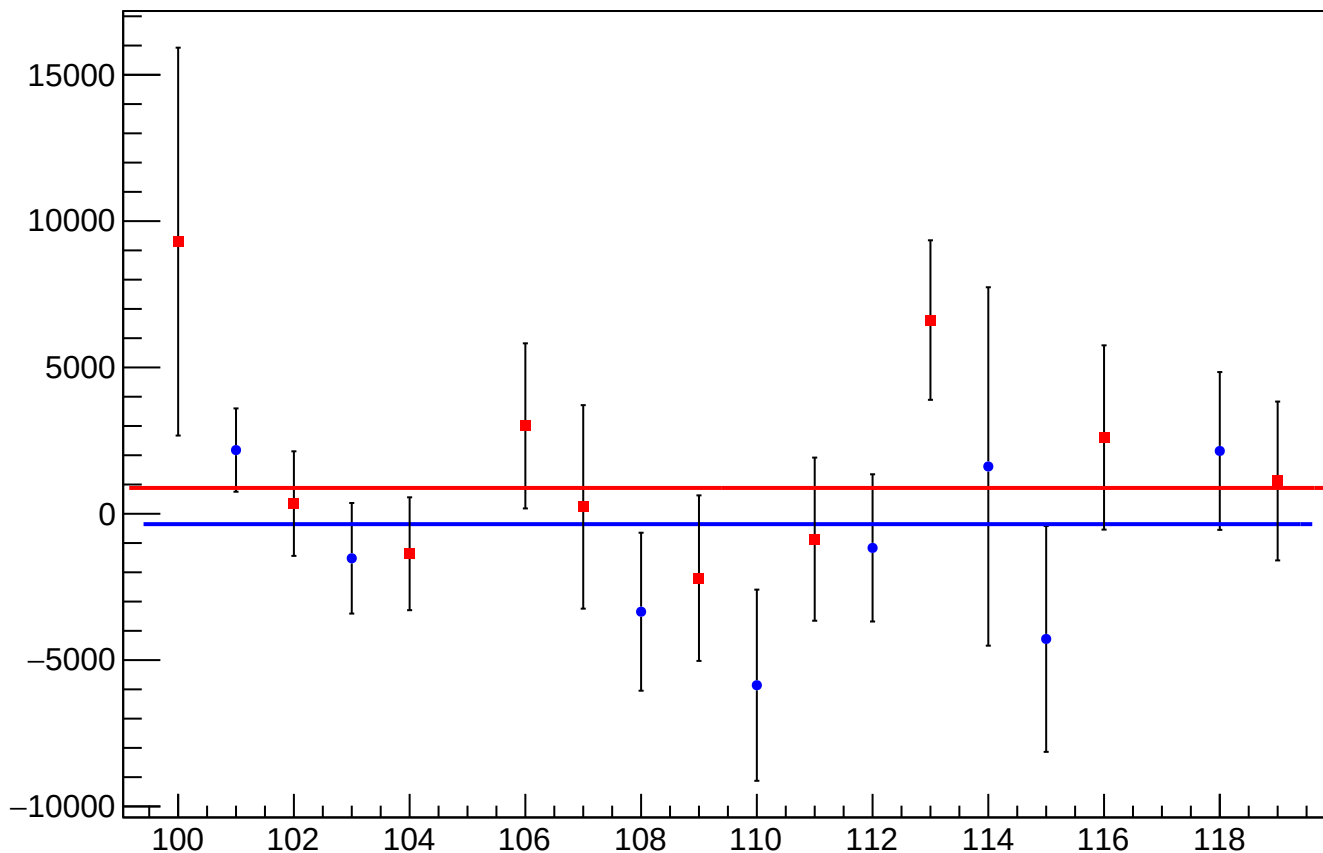
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1095.382+/-0.284  $\chi^2/\text{NDF}$ : 14141.6/17

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

# asym\_usr\_dit\_correction\_mean vs Slug



Right In: -354.376+/-846.990  $\chi^2/\text{NDF}$ : 9.7/7

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

Right Out: 882.877+/-833.805  $\chi^2/\text{NDF}$ : 10.0/9

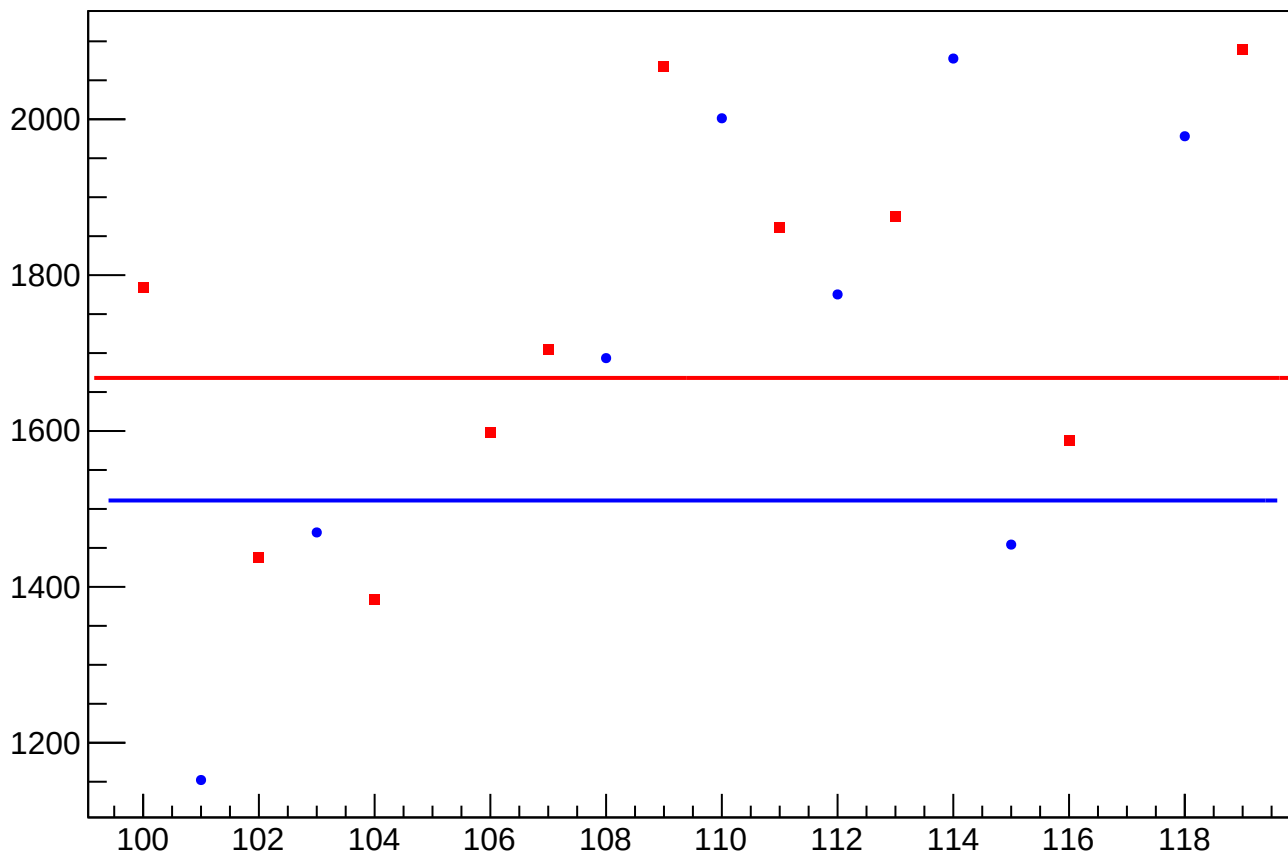
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 273.955+/-594.196  $\chi^2/\text{NDF}$ : 20.8/17

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

# asym\_usr\_dit\_correction\_rms vs Slug



Right In: 1510.857+/-0.599  $\chi^2/\text{NDF}$ : 281880.5/7

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

Right Out: 1668.107+/-0.590  $\chi^2/\text{NDF}$ : 189559.1/9

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

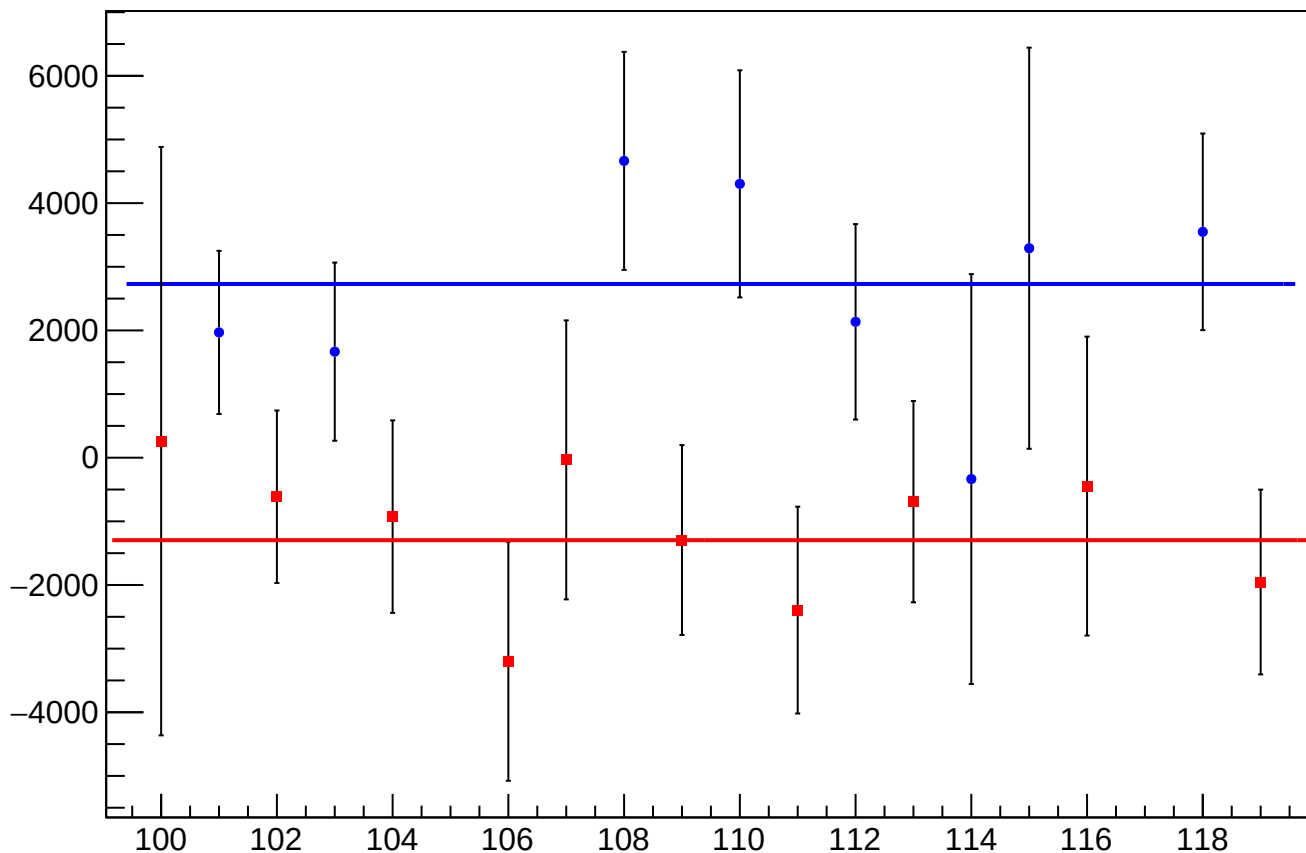
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1590.716+/-0.420  $\chi^2/\text{NDF}$ : 506448.9/17

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



# eigen\_dit\_asym\_usr\_mean vs Slug



Right In: 2729.760 $\pm$ 596.115  $\chi^2$ /NDF: 4.4/7

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

Right Out: -1296.081 $\pm$ 542.050  $\chi^2$ /NDF: 2.7/9

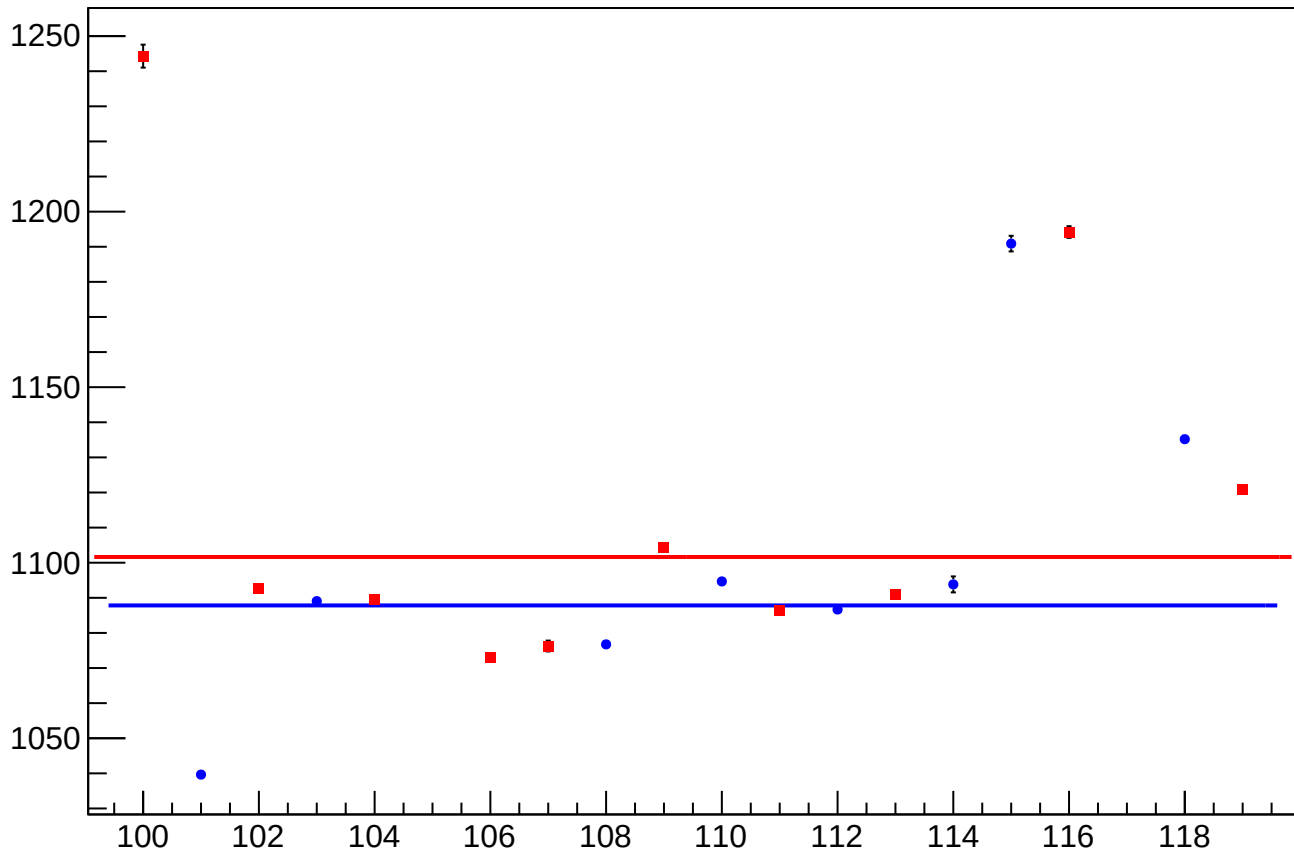
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 526.034 $\pm$ 401.042  $\chi^2$ /NDF: 32.0/17

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

# eigen\_dit\_asym\_usr\_rms vs Slug



Right In: 1087.830+/-0.422  $\chi^2/\text{NDF}$ : 6967.8/7

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

Right Out: 1101.627+/-0.383  $\chi^2/\text{NDF}$ : 6587.3/9

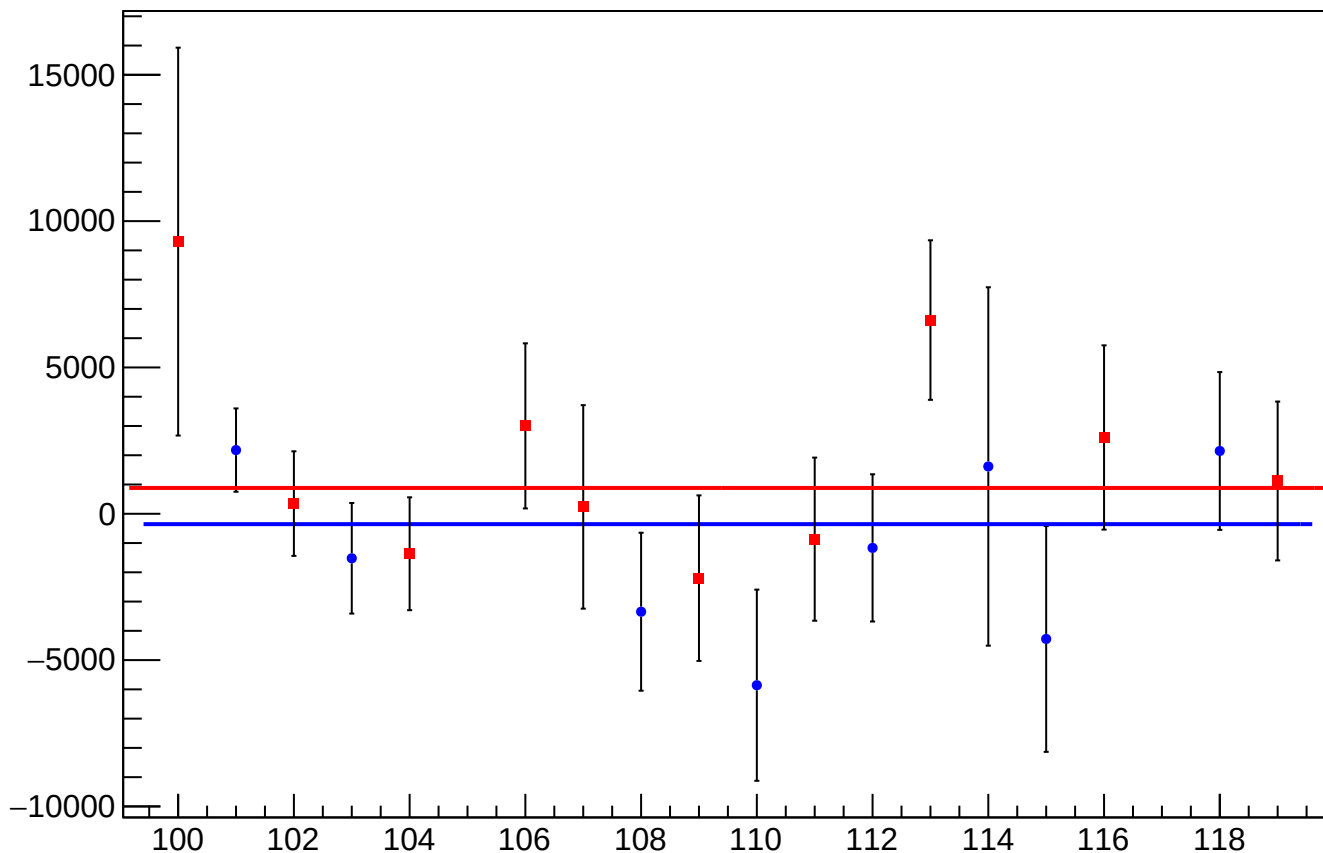
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1095.382+/-0.284  $\chi^2/\text{NDF}$ : 14141.6/17

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

# asym\_usr\_eigen\_dit\_correction\_mean vs Slug



Right In: -354.377+/-846.989  $\chi^2/\text{NDF}$ : 9.7/7

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

Right Out: 882.881+/-833.804  $\chi^2/\text{NDF}$ : 10.0/9

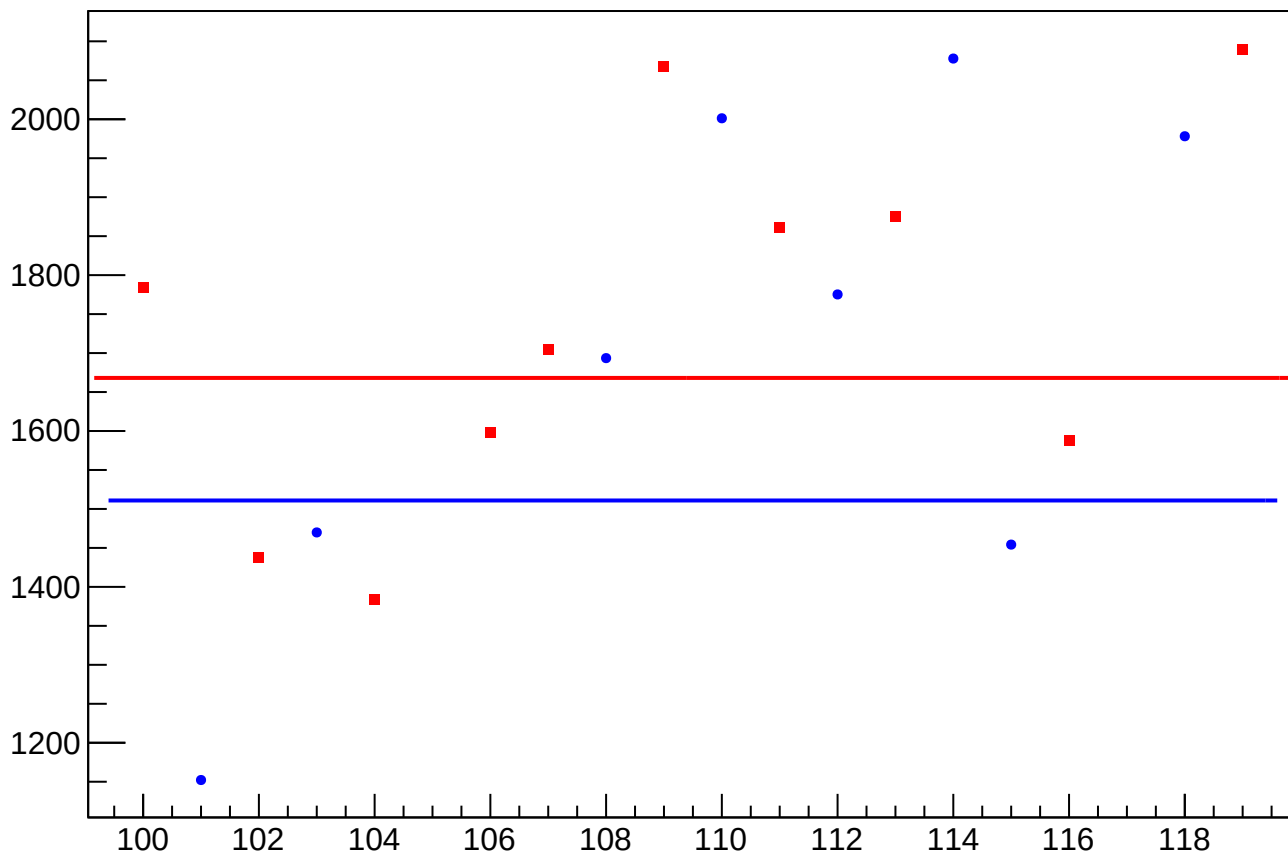
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 273.957+/-594.195  $\chi^2/\text{NDF}$ : 20.8/17

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

# asym\_usr\_eigen\_dit\_correction\_rms vs Slug



Right In: 1510.855+/-0.599  $\chi^2/\text{NDF}$ : 281875.2/7

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

Right Out: 1668.107+/-0.590  $\chi^2/\text{NDF}$ : 189552.0/9

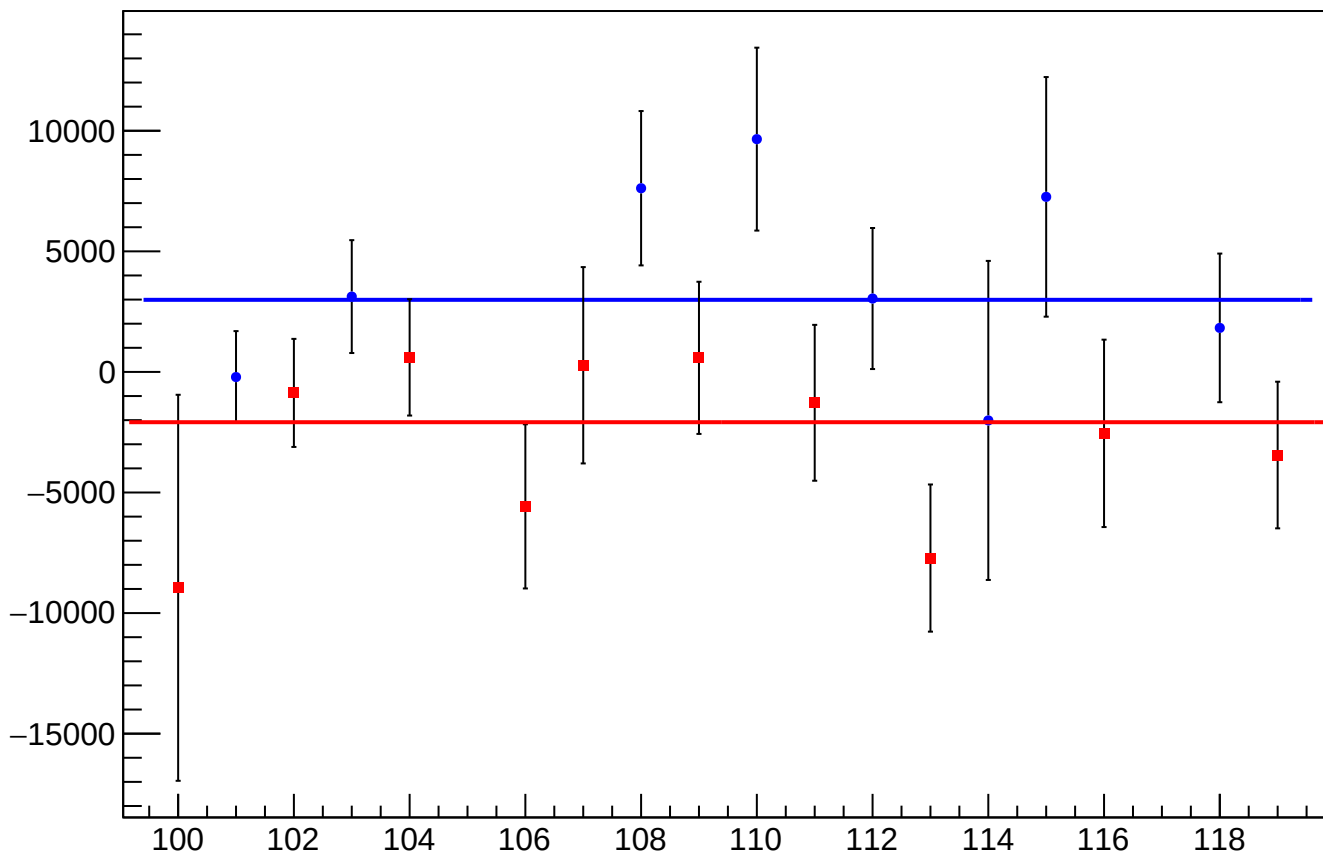
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1590.715+/-0.420  $\chi^2/\text{NDF}$ : 506437.3/17

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

# asym\_usr\_mean vs Slug



Right In: 2989.755 $\pm$ 1047.832  $\chi^2$ /NDF: 9.5/7

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

Right Out: -2084.831 $\pm$ 994.394  $\chi^2$ /NDF: 8.1/9

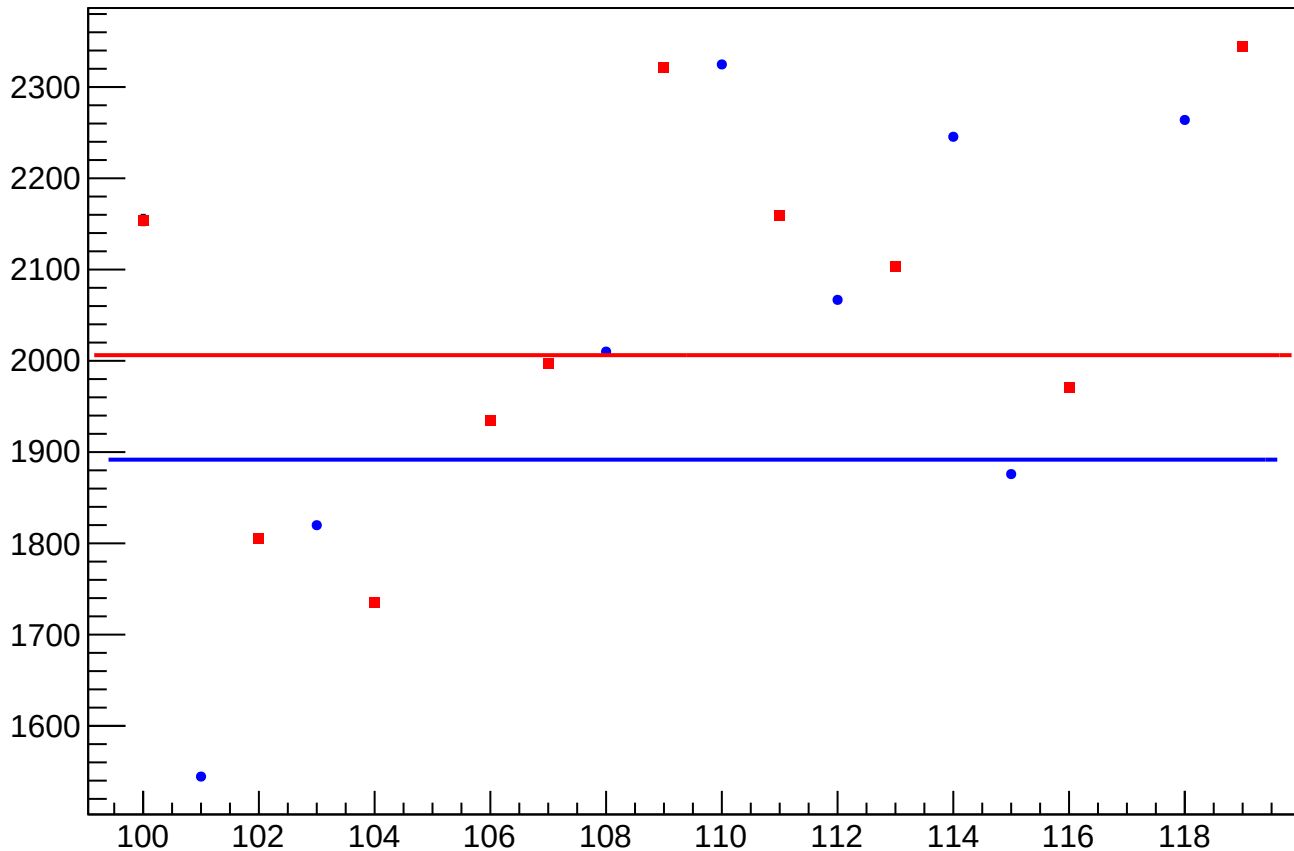
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 319.770 $\pm$ 721.295  $\chi^2$ /NDF: 29.9/17

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

# asym\_usr\_rms vs Slug



Right In: 1891.717 $\pm$ 0.741  $\chi^2$ /NDF: 139214.5/7

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

Right Out: 2006.204 $\pm$ 0.703  $\chi^2$ /NDF: 94326.8/9

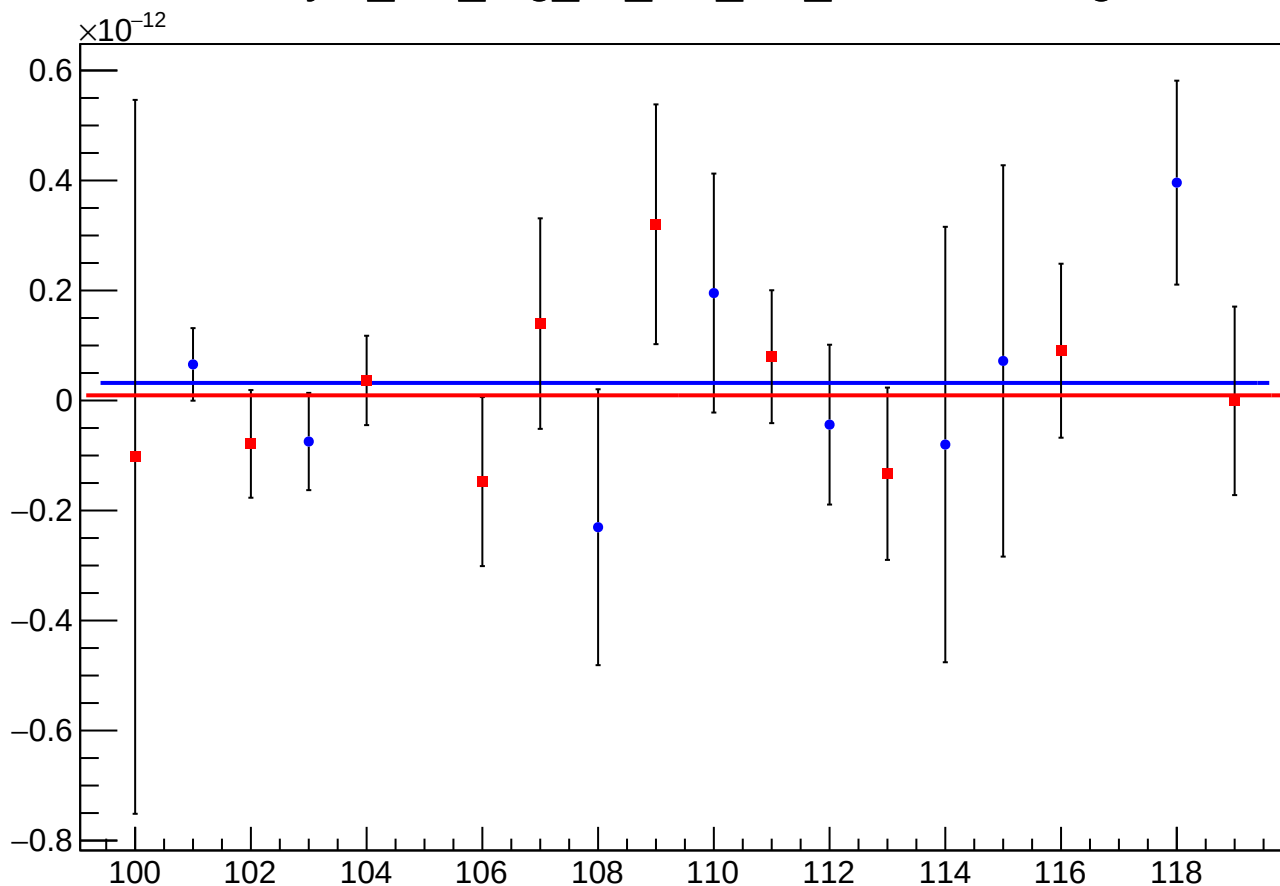
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1951.954 $\pm$ 0.510  $\chi^2$ /NDF: 246103.7/17

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

# asym\_usr\_reg\_vs\_cor\_diff\_mean vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 7.6/7

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

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 5.9/9

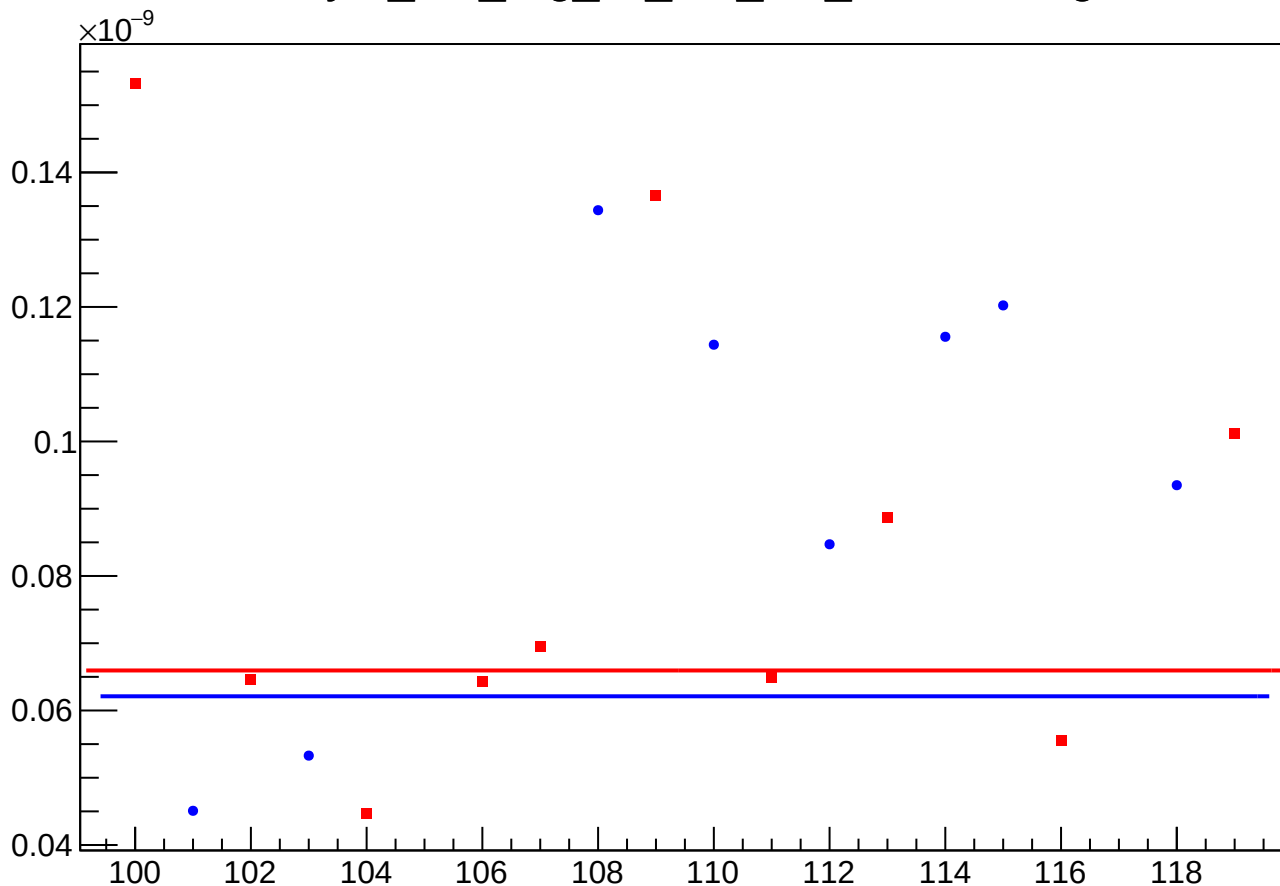
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 13.7/17

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

# asym\_usr\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 630654.1/7

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 519442.8/9

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

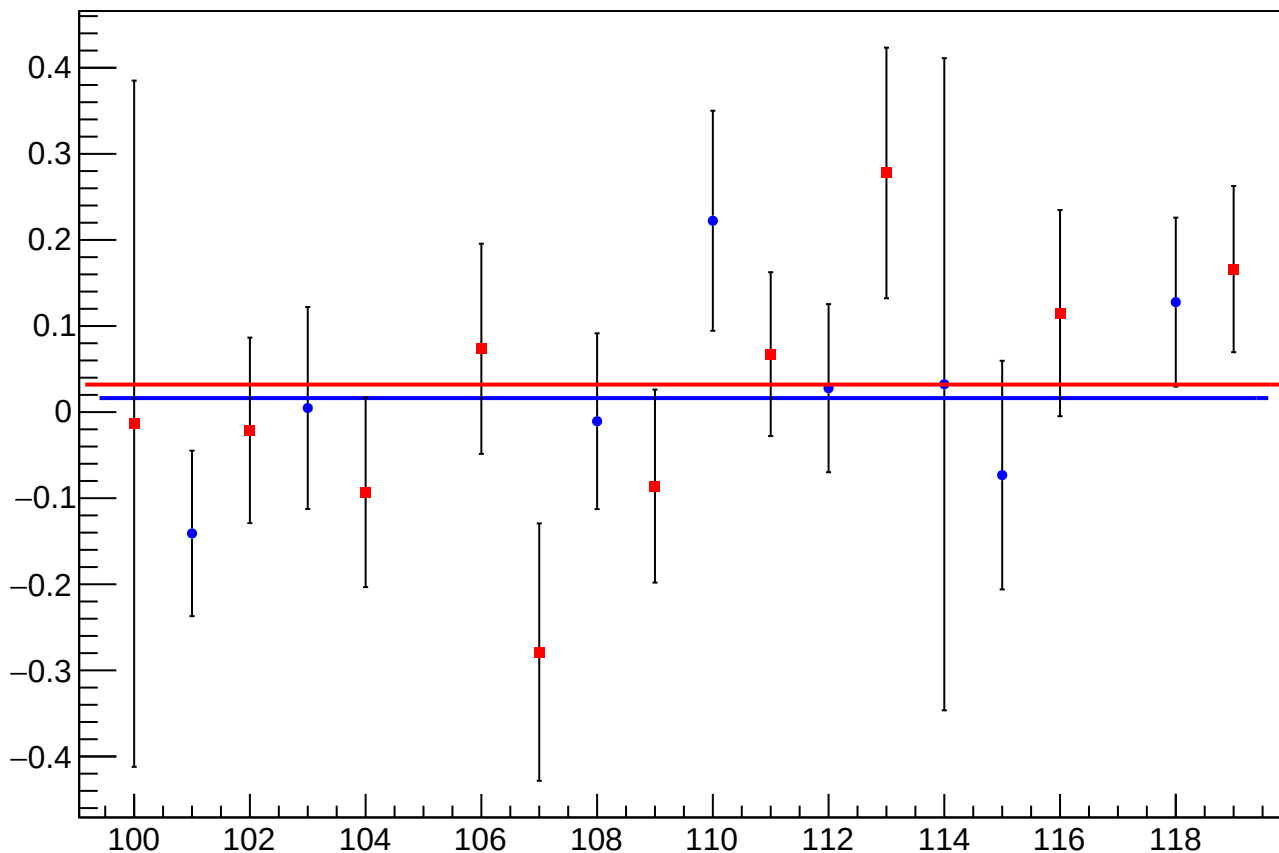
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1157587.4/17

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



# asym\_usr\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.016 $\pm$ 0.040  $\chi^2$ /NDF: 7.1/7

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

Right Out: 0.032 $\pm$ 0.038  $\chi^2$ /NDF: 12.5/9

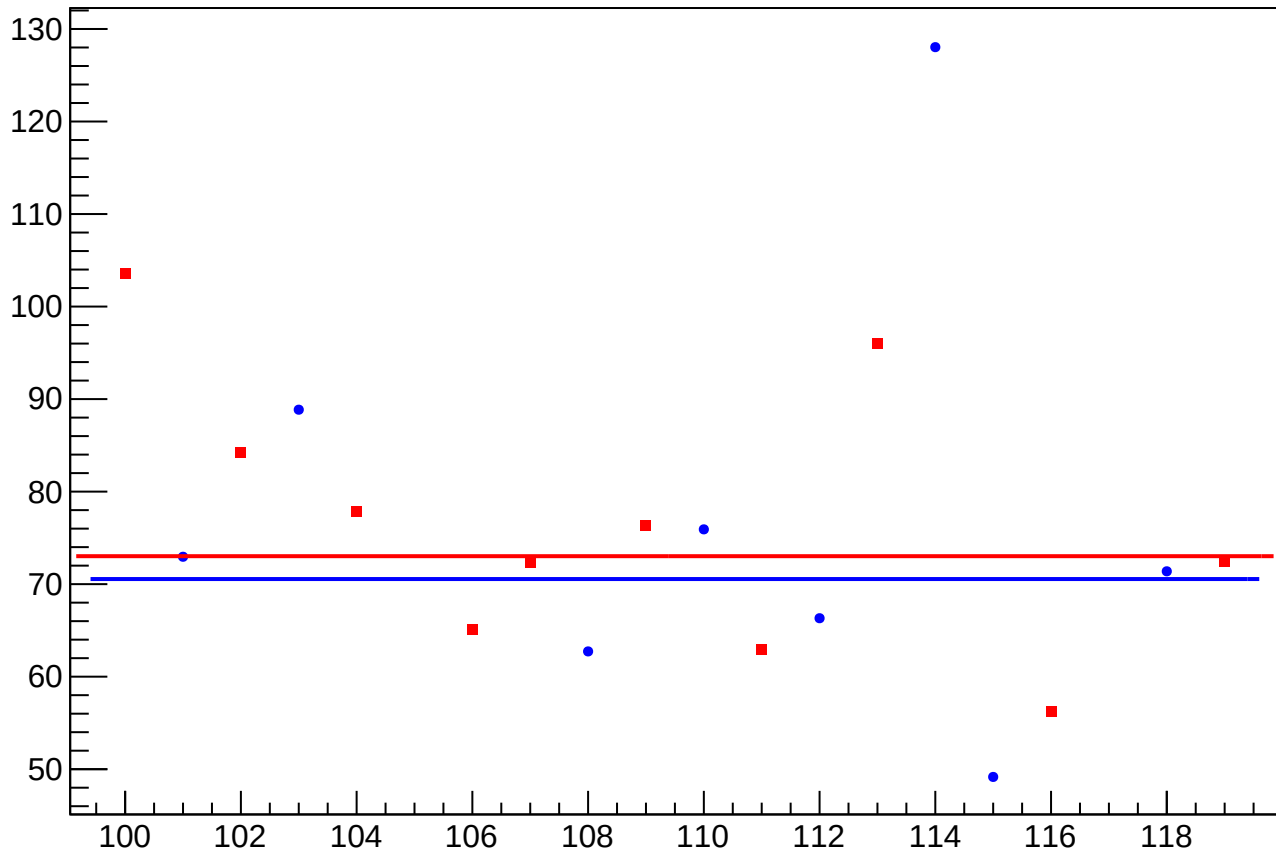
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.025 $\pm$ 0.028  $\chi^2$ /NDF: 19.7/17

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

# asym\_usr\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 70.551+/-0.029  $\chi^2/\text{NDF}$ : 167048.1/7

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

Right Out: 73.022+/-0.027  $\chi^2/\text{NDF}$ : 159255.5/9

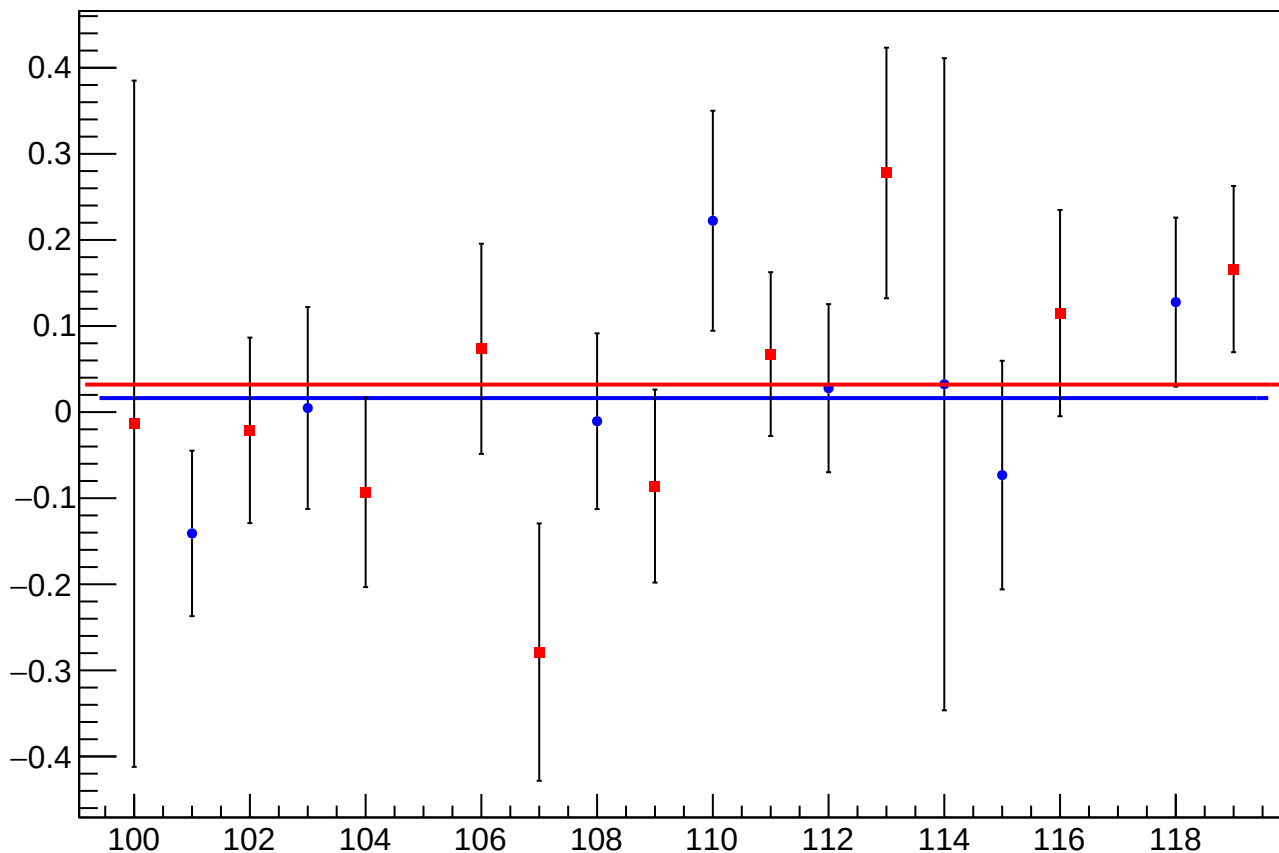
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 71.872+/-0.020  $\chi^2/\text{NDF}$ : 330285.5/17

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

# asym\_usr\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.016 $\pm$ 0.040  $\chi^2$ /NDF: 7.1/7

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

Right Out: 0.032 $\pm$ 0.038  $\chi^2$ /NDF: 12.5/9

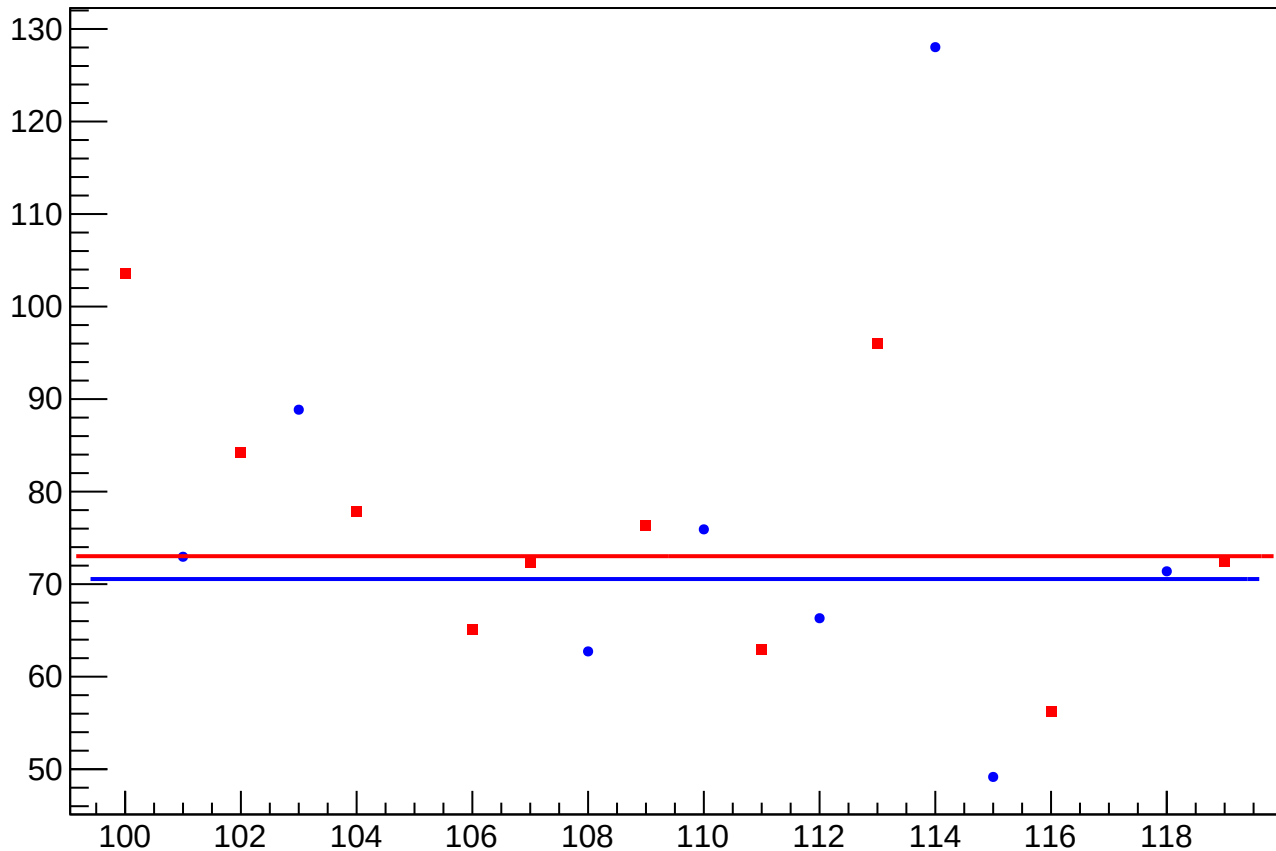
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.025 $\pm$ 0.028  $\chi^2$ /NDF: 19.7/17

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

# asym\_usr\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 70.551+/-0.029  $\chi^2/\text{NDF}$ : 167048.1/7

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

Right Out: 73.022+/-0.027  $\chi^2/\text{NDF}$ : 159255.5/9

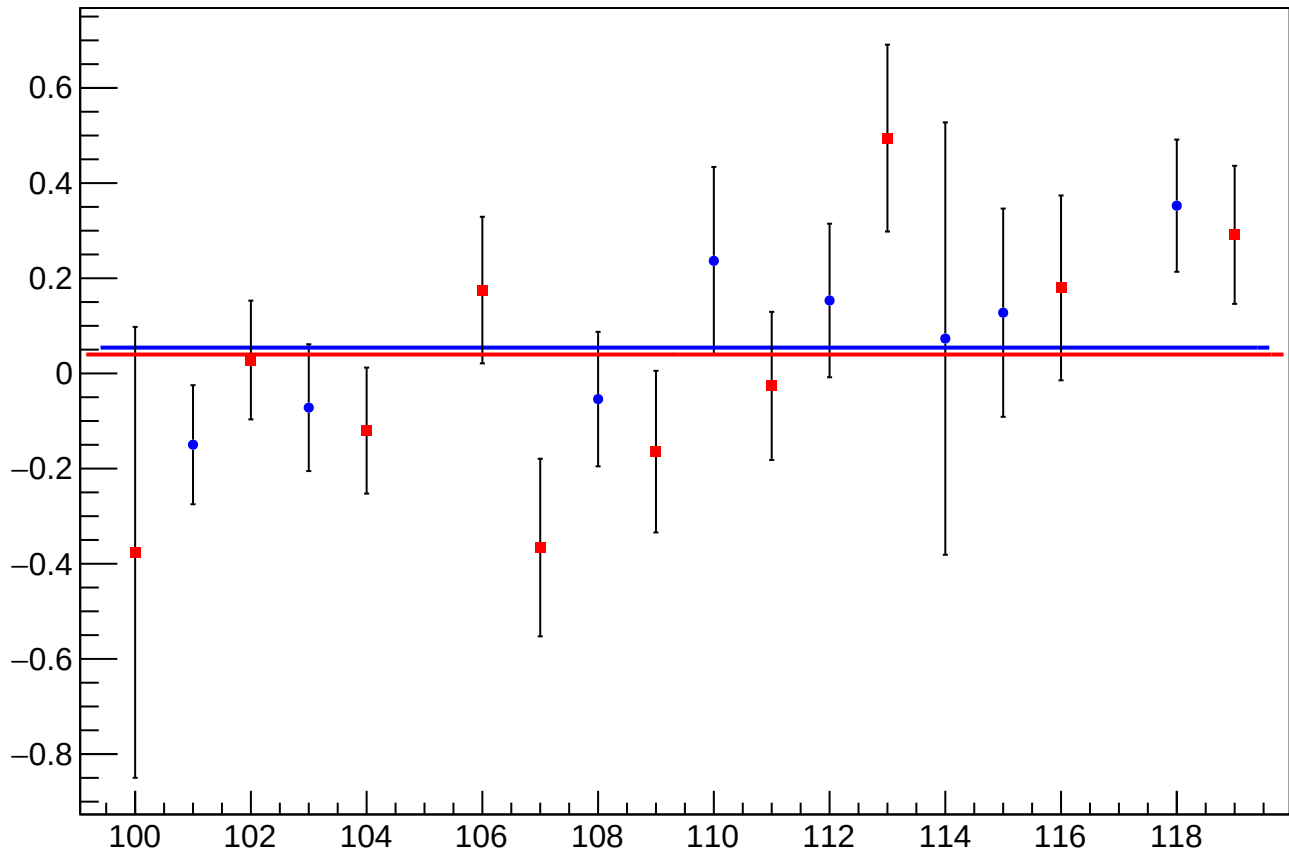
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 71.872+/-0.020  $\chi^2/\text{NDF}$ : 330285.5/17

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

# asym\_usr\_dit\_vs\_overload\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.057  $\chi^2$ /NDF: 10.1/7

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

Right Out: 0.040 $\pm$ 0.052  $\chi^2$ /NDF: 18.3/9

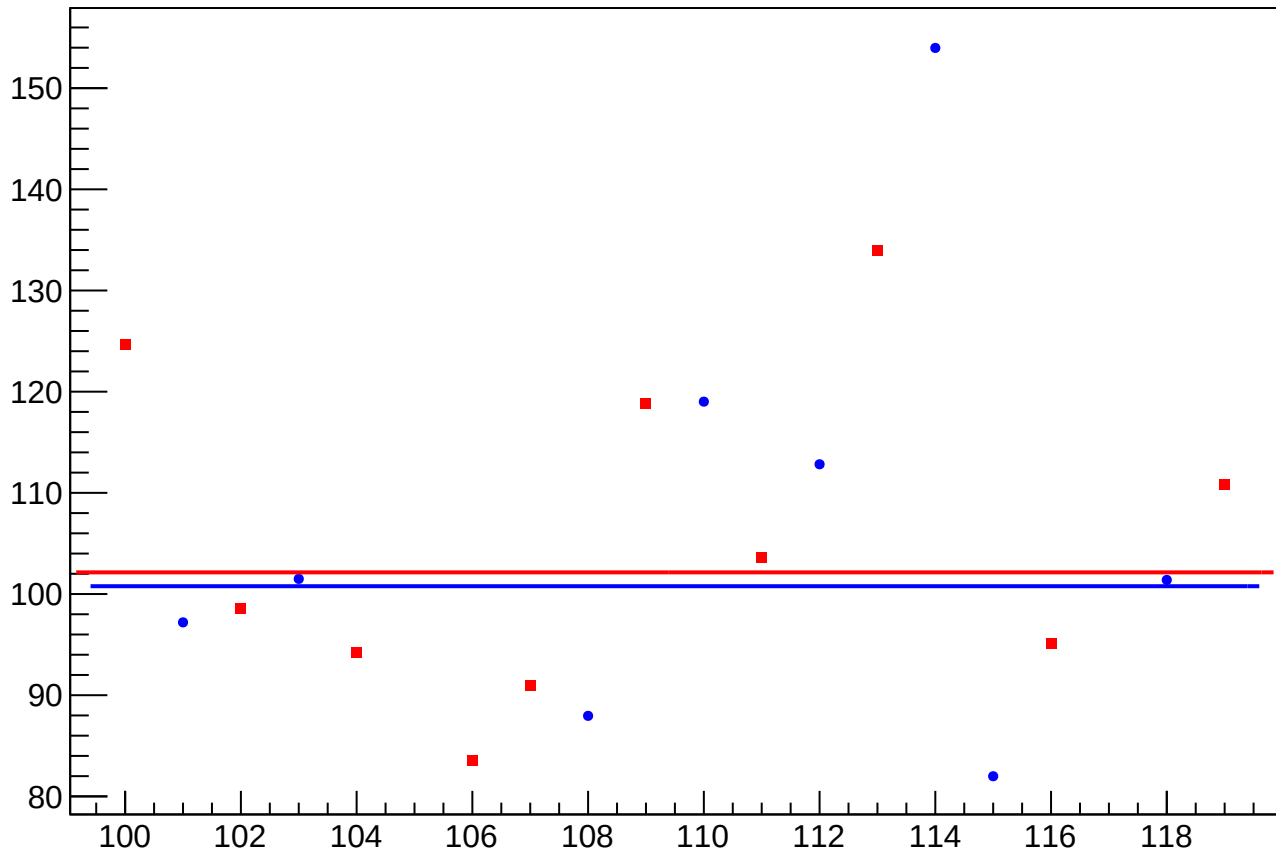
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 0.046 $\pm$ 0.038  $\chi^2$ /NDF: 28.4/17

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

# asym\_usr\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In: 100.773+/-0.040  $\chi^2/\text{NDF}$ : 88564.3/7

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

Right Out: 102.141+/-0.037  $\chi^2/\text{NDF}$ : 131701.2/9

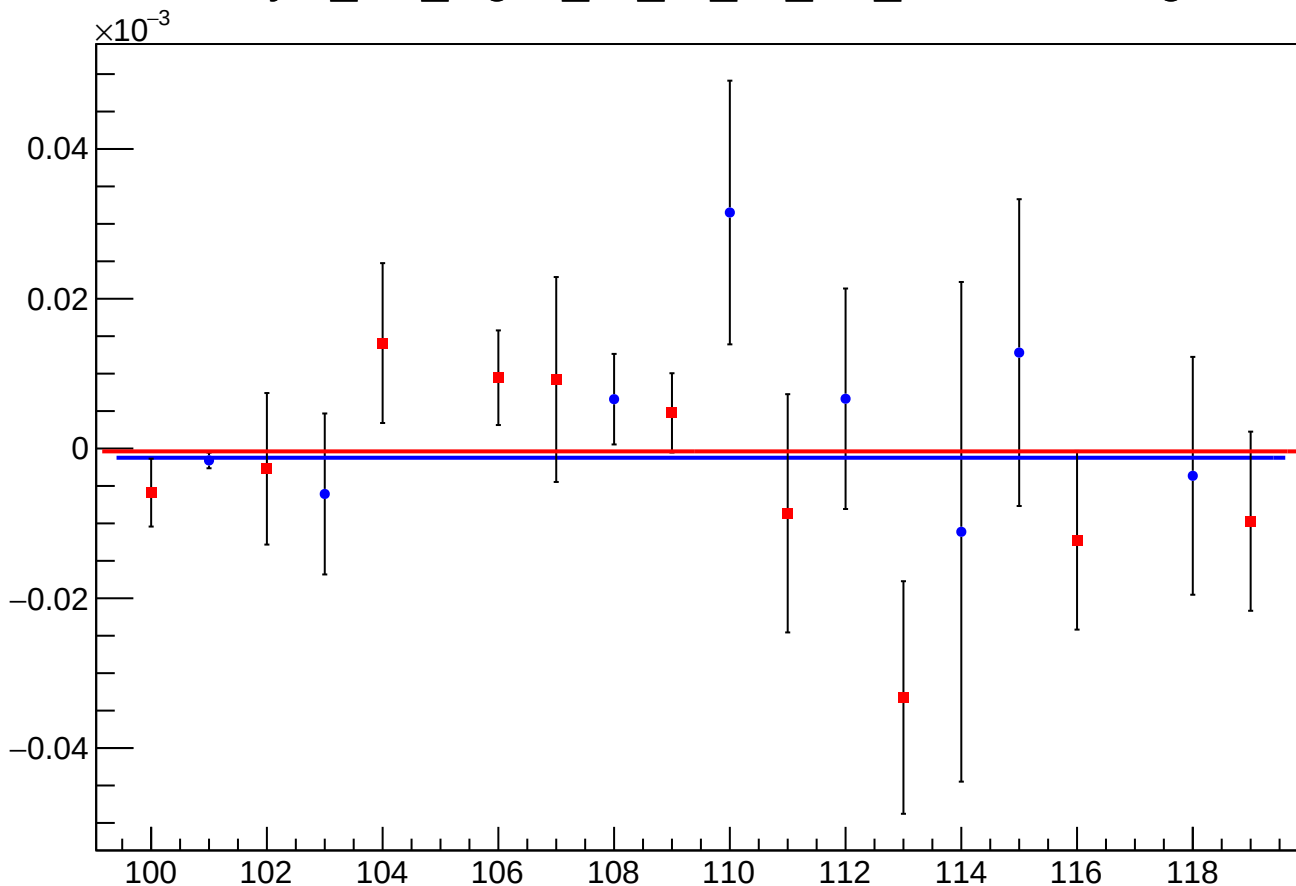
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 101.517+/-0.027  $\chi^2/\text{NDF}$ : 220901.5/17

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

# asym\_usr\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.3/7

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

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.6/9

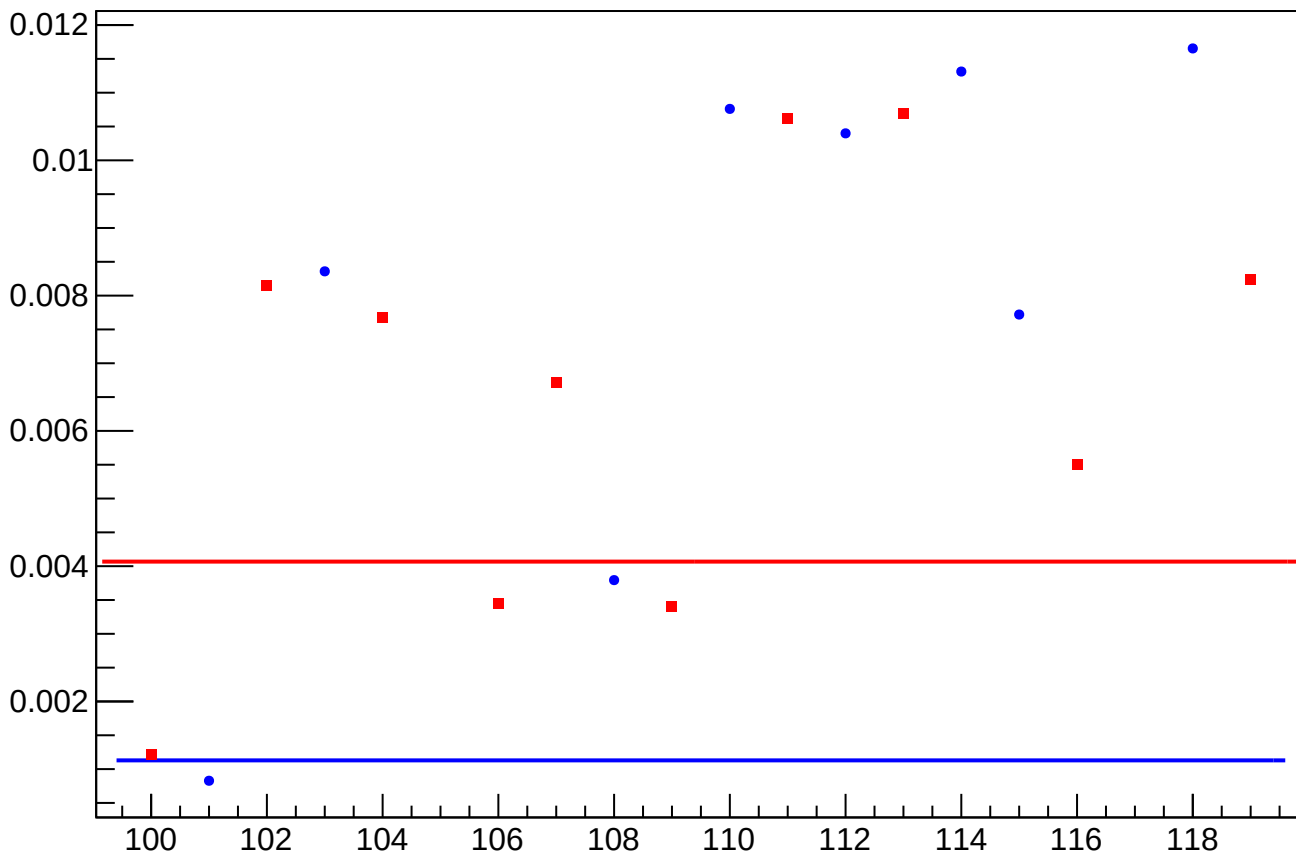
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.0/17

- 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  $\chi^2/\text{NDF}$ : 4123037.5/7

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

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 2443723.0/9

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

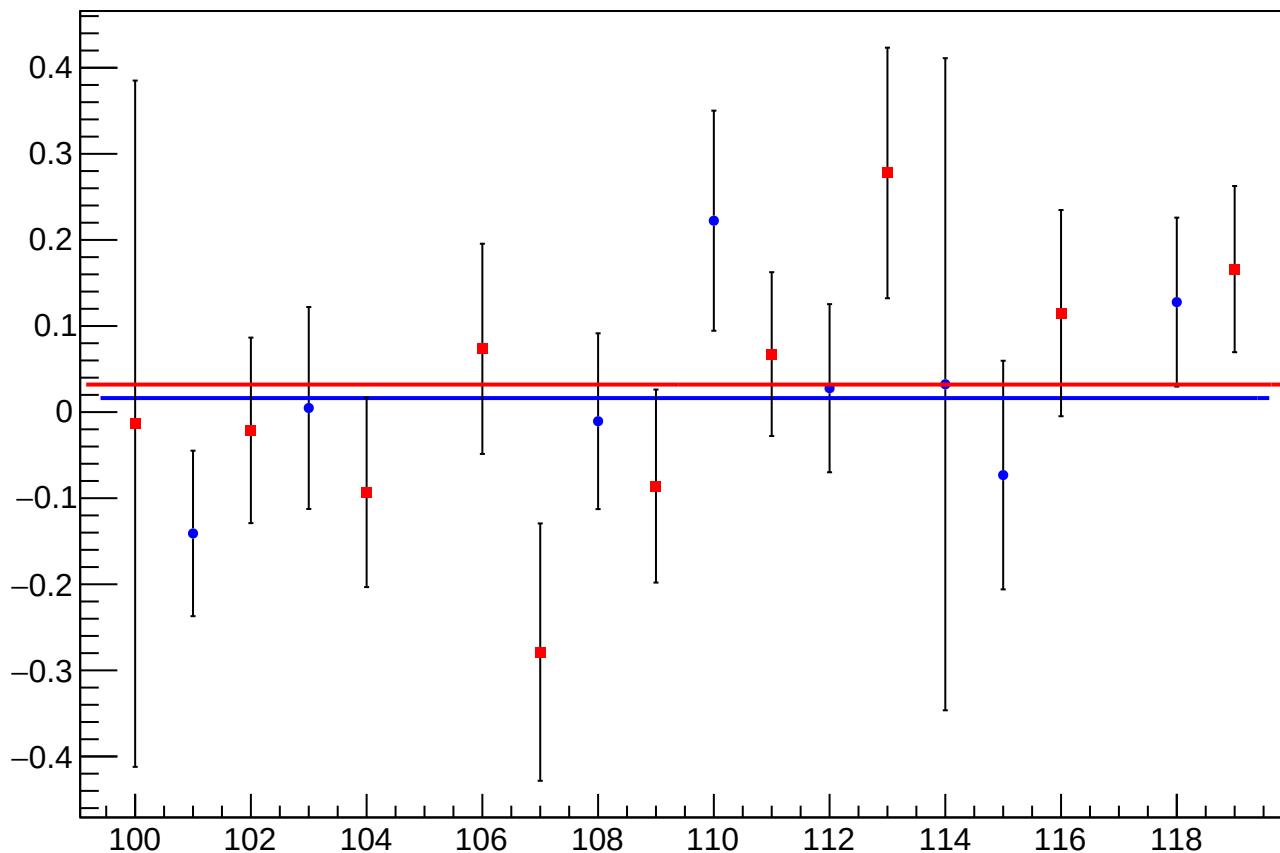
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 8879247.7/17

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



# asym\_usr\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.016 $\pm$ 0.040  $\chi^2$ /NDF: 7.1/7

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

Right Out: 0.032 $\pm$ 0.038  $\chi^2$ /NDF: 12.5/9

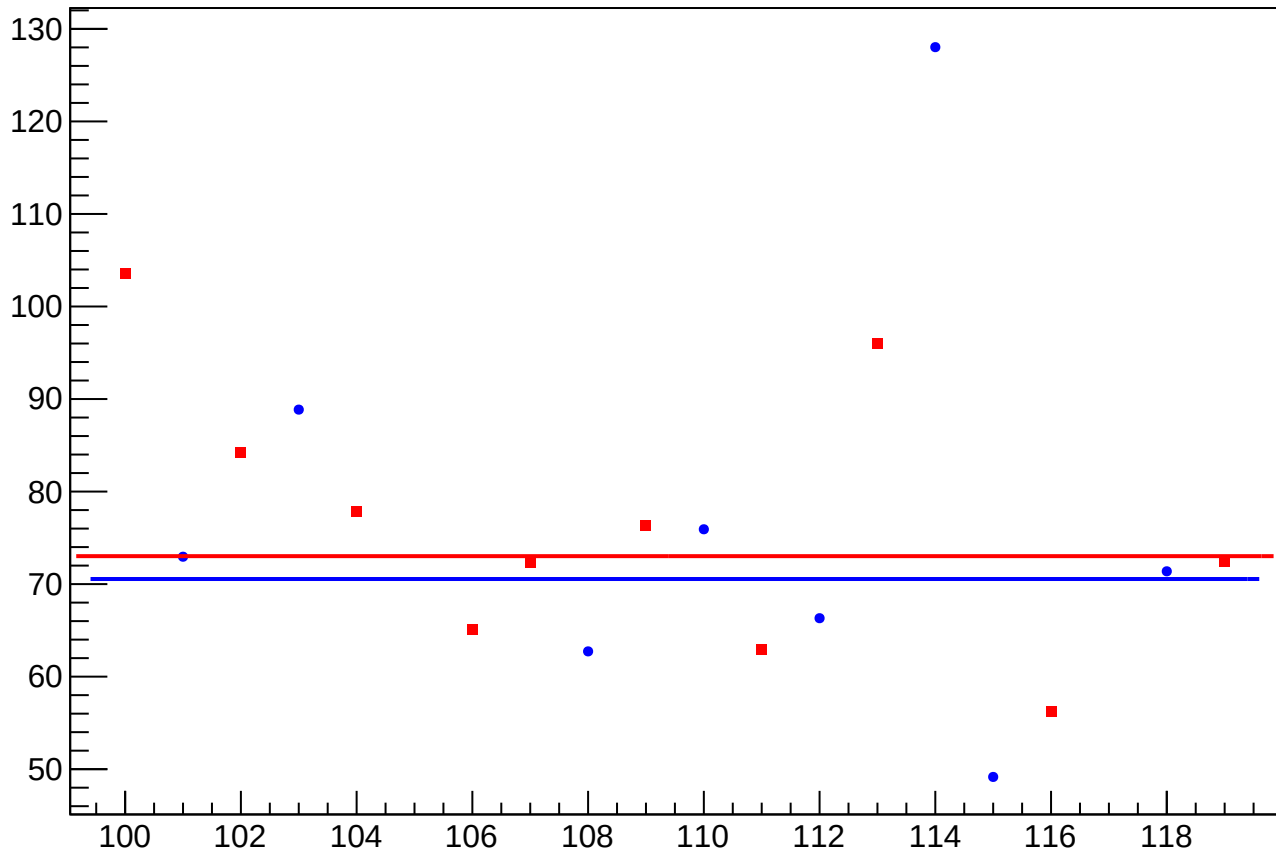
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 0.025 $\pm$ 0.028  $\chi^2$ /NDF: 19.7/17

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

# asym\_usr\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 70.551+/-0.029  $\chi^2/\text{NDF}$ : 167070.2/7

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

Right Out: 73.021+/-0.027  $\chi^2/\text{NDF}$ : 159252.4/9

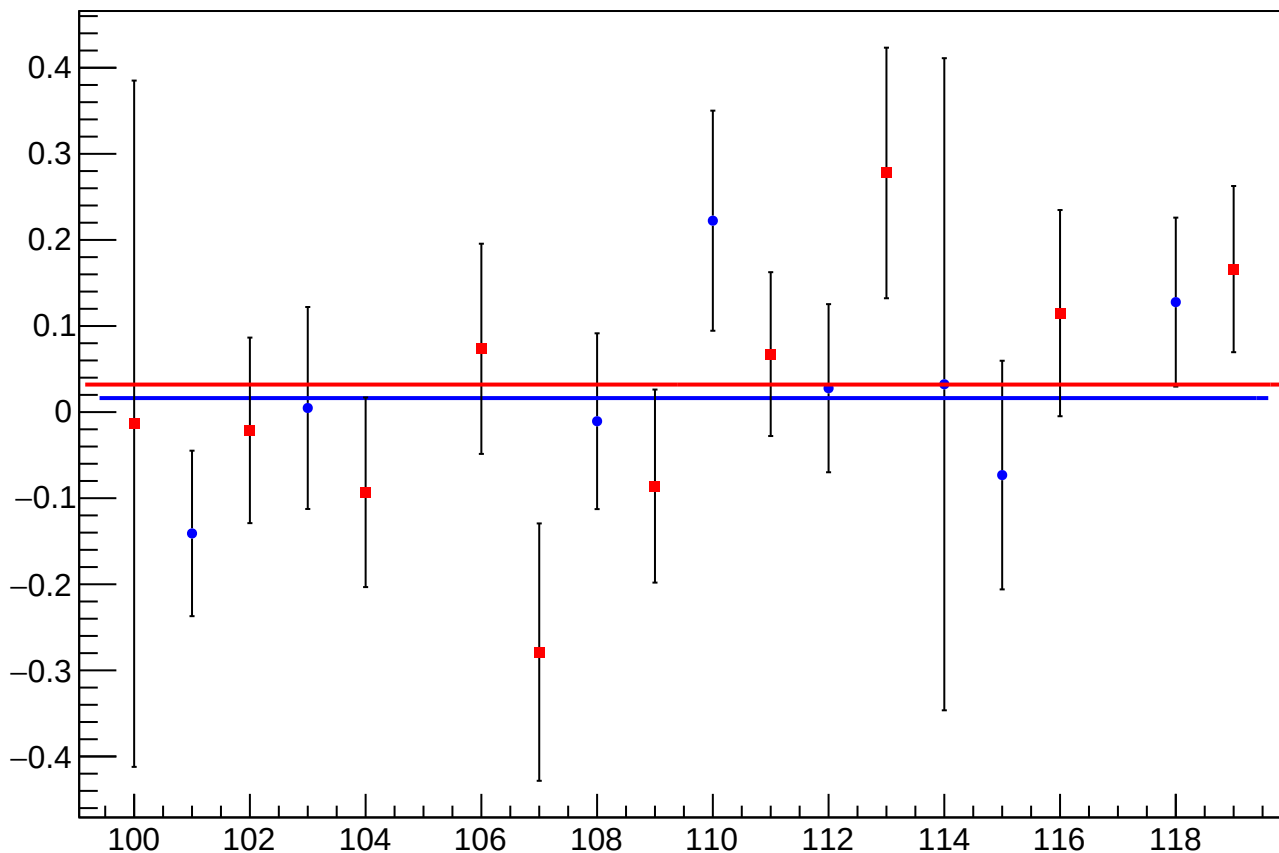
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 71.871+/-0.020  $\chi^2/\text{NDF}$ : 330305.1/17

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

asym\_usr\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.016 $\pm$ 0.040  $\chi^2$ /NDF: 7.1/7

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

Right Out: 0.032 $\pm$ 0.038  $\chi^2$ /NDF: 12.5/9

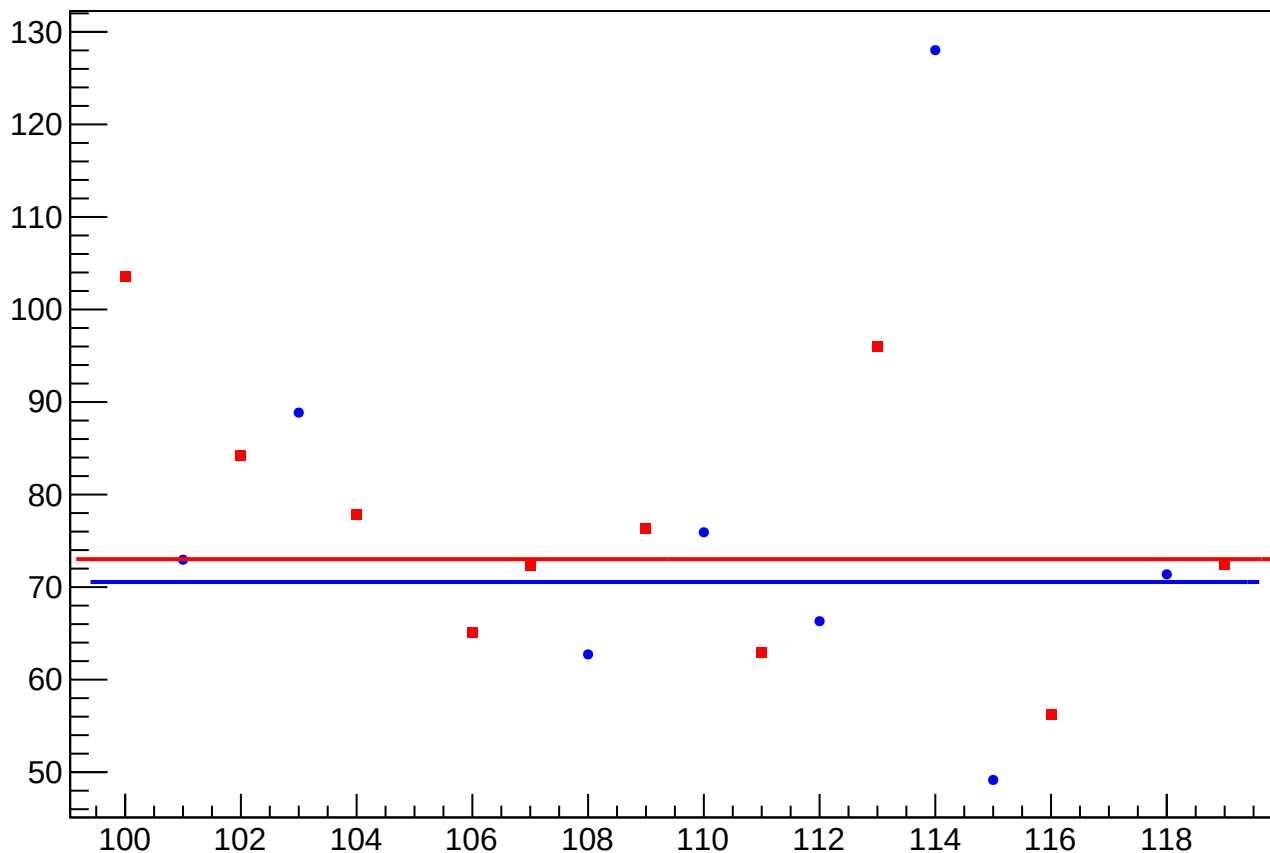
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.025 $\pm$ 0.028  $\chi^2$ /NDF: 19.7/17

- 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: 70.551+/-0.029  $\chi^2/\text{NDF}$ : 167070.2/7

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

Right Out: 73.021+/-0.027  $\chi^2/\text{NDF}$ : 159252.4/9

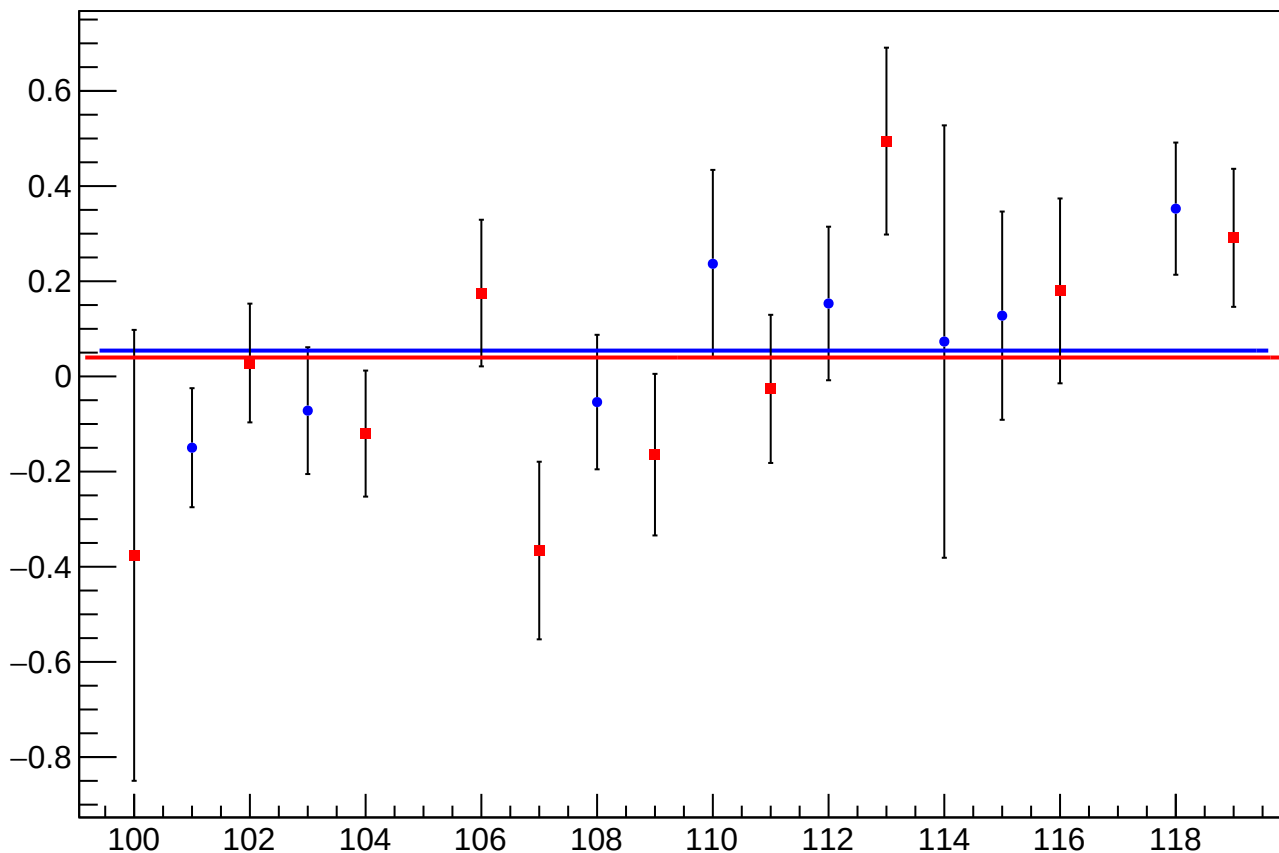
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 71.871+/-0.020  $\chi^2/\text{NDF}$ : 330305.1/17

- 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: 0.054 $\pm$ 0.057  $\chi^2$ /NDF: 10.1/7

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

Right Out: 0.040 $\pm$ 0.052  $\chi^2$ /NDF: 18.2/9

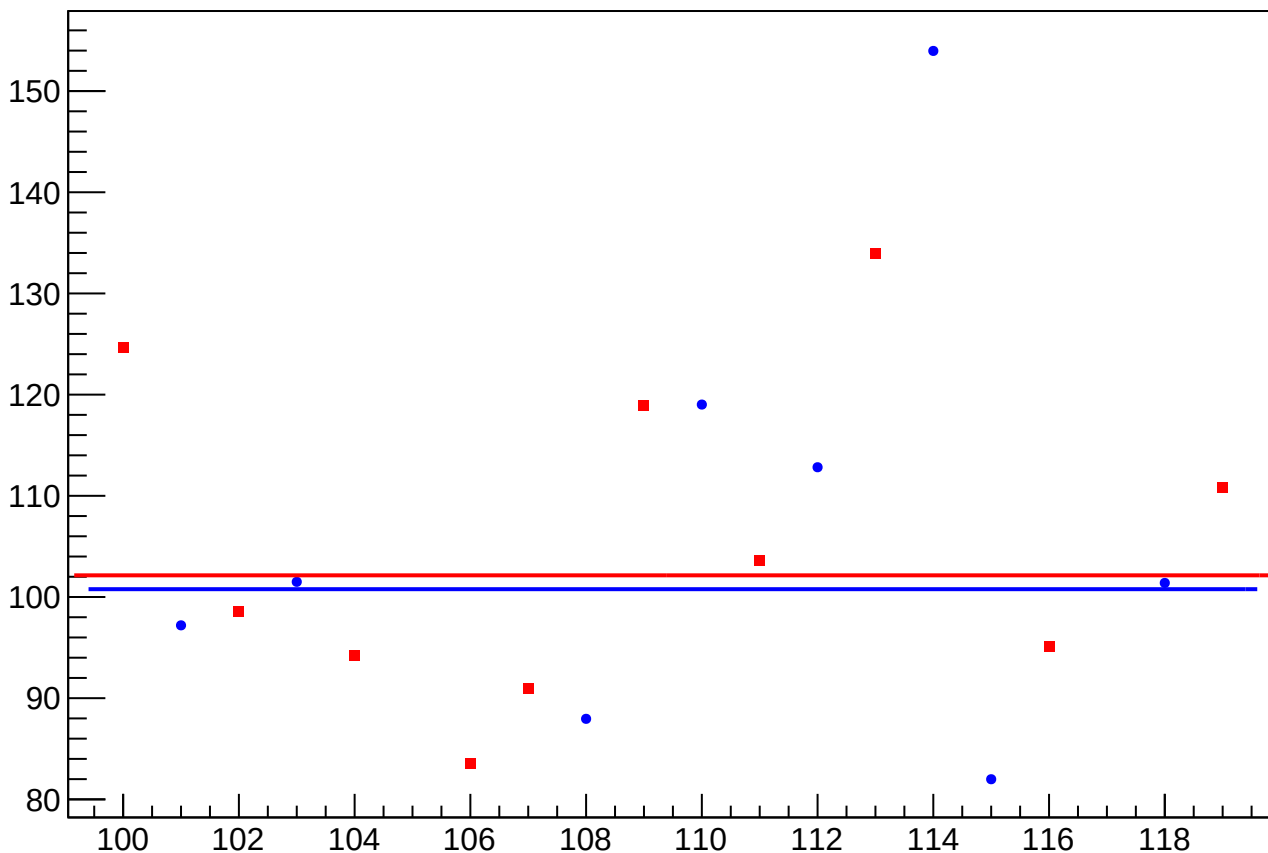
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 0.046 $\pm$ 0.038  $\chi^2$ /NDF: 28.4/17

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

asym\_usr\_eigen\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In: 100.772+/-0.040  $\chi^2/\text{NDF}$ : 88562.5/7

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

Right Out: 102.141+/-0.037  $\chi^2/\text{NDF}$ : 131683.4/9

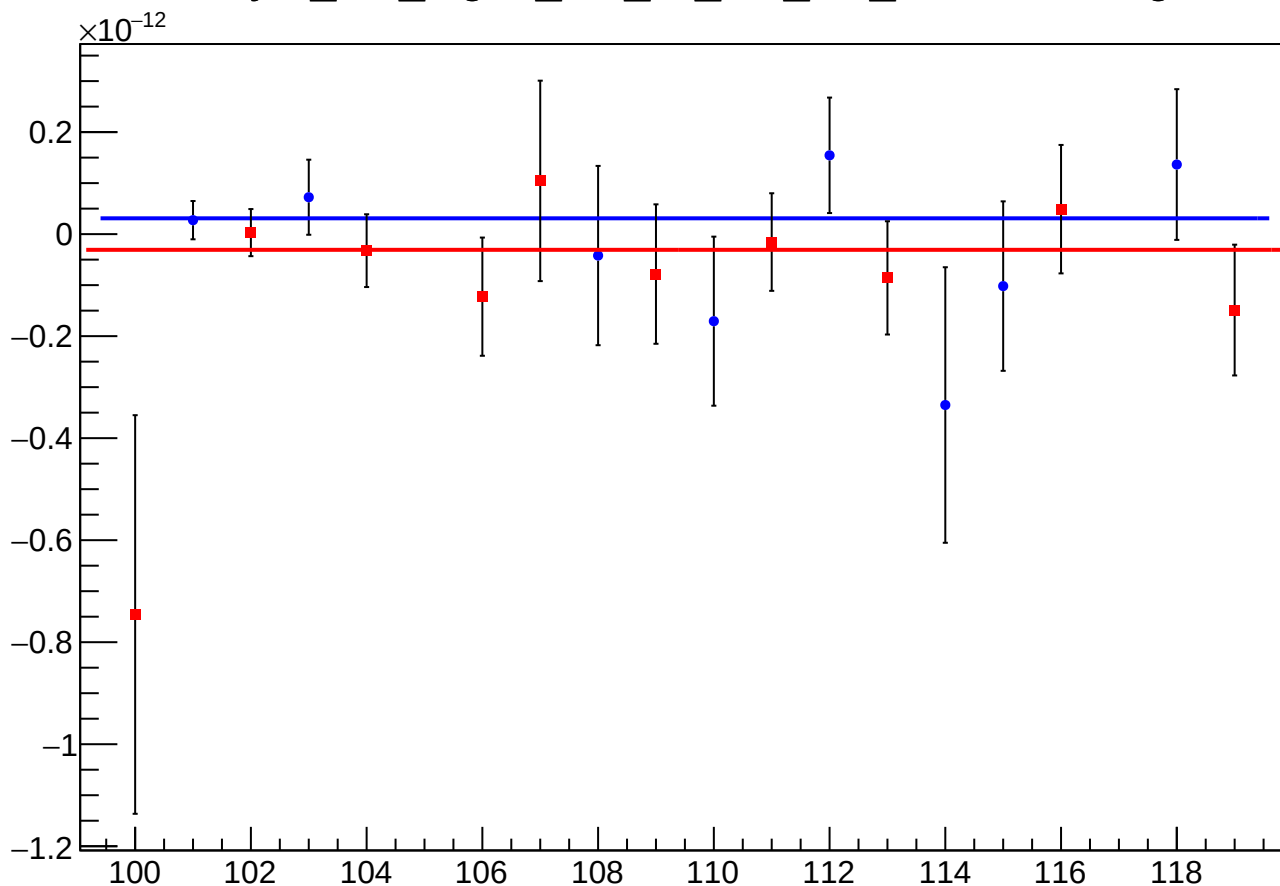
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 101.517+/-0.027  $\chi^2/\text{NDF}$ : 220881.9/17

- 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  $\chi^2/\text{NDF}$ : 6.2/7

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

Right Out: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 6.6/9

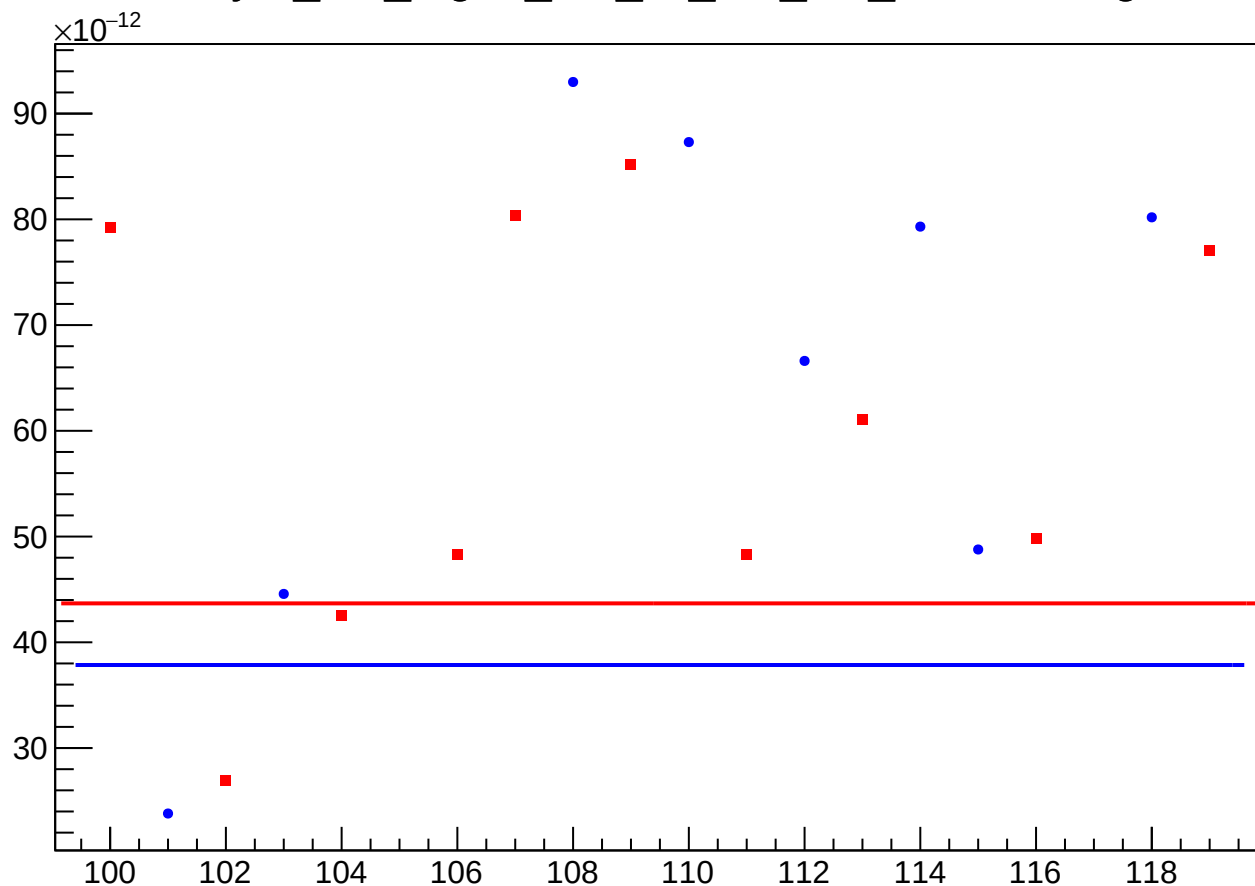
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 15.0/17

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

# asym\_usr\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1020960.8/7

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 731188.2/9

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

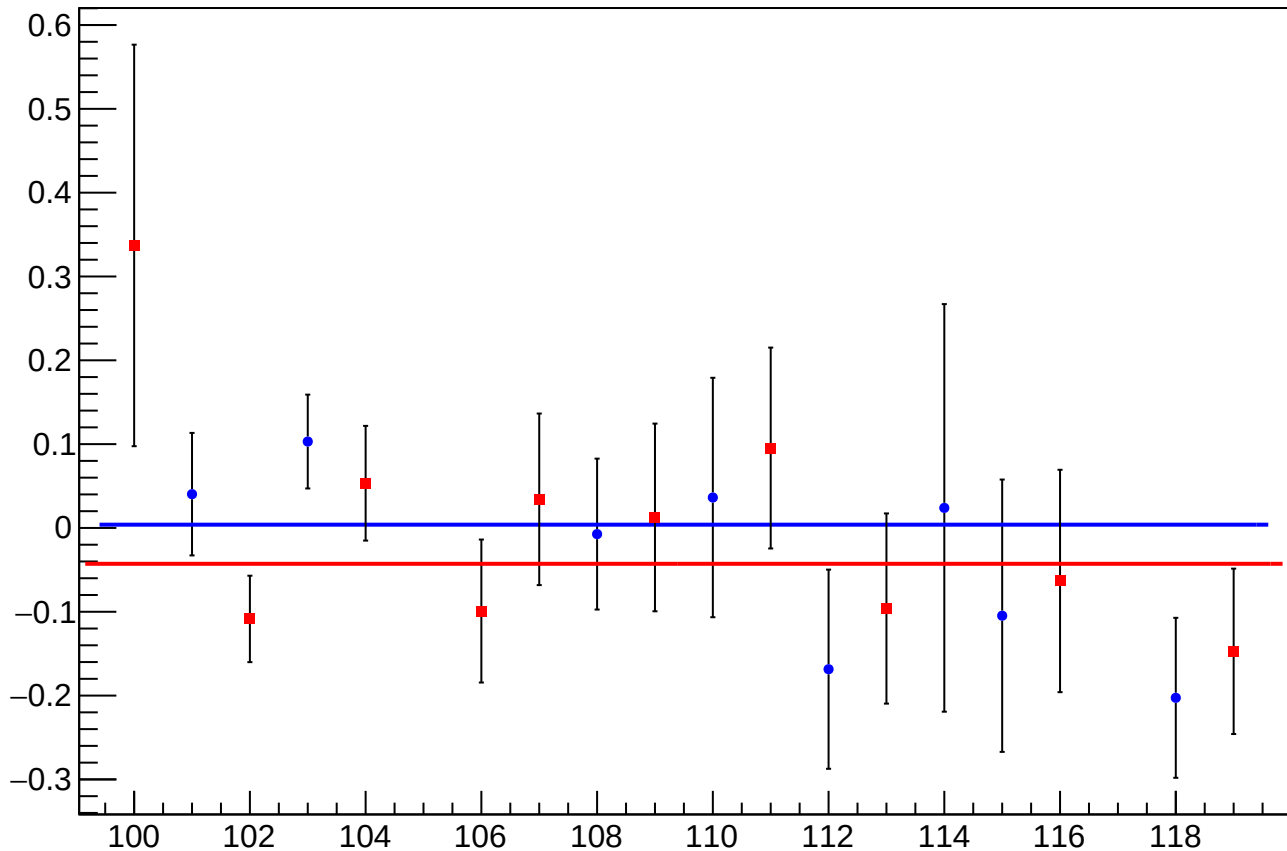
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1790831.1/17

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



# asym\_usr\_overload\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.004+/-0.033  $\chi^2/\text{NDF}$ : 10.7/7

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

Right Out: -0.043+/-0.029  $\chi^2/\text{NDF}$ : 10.1/9

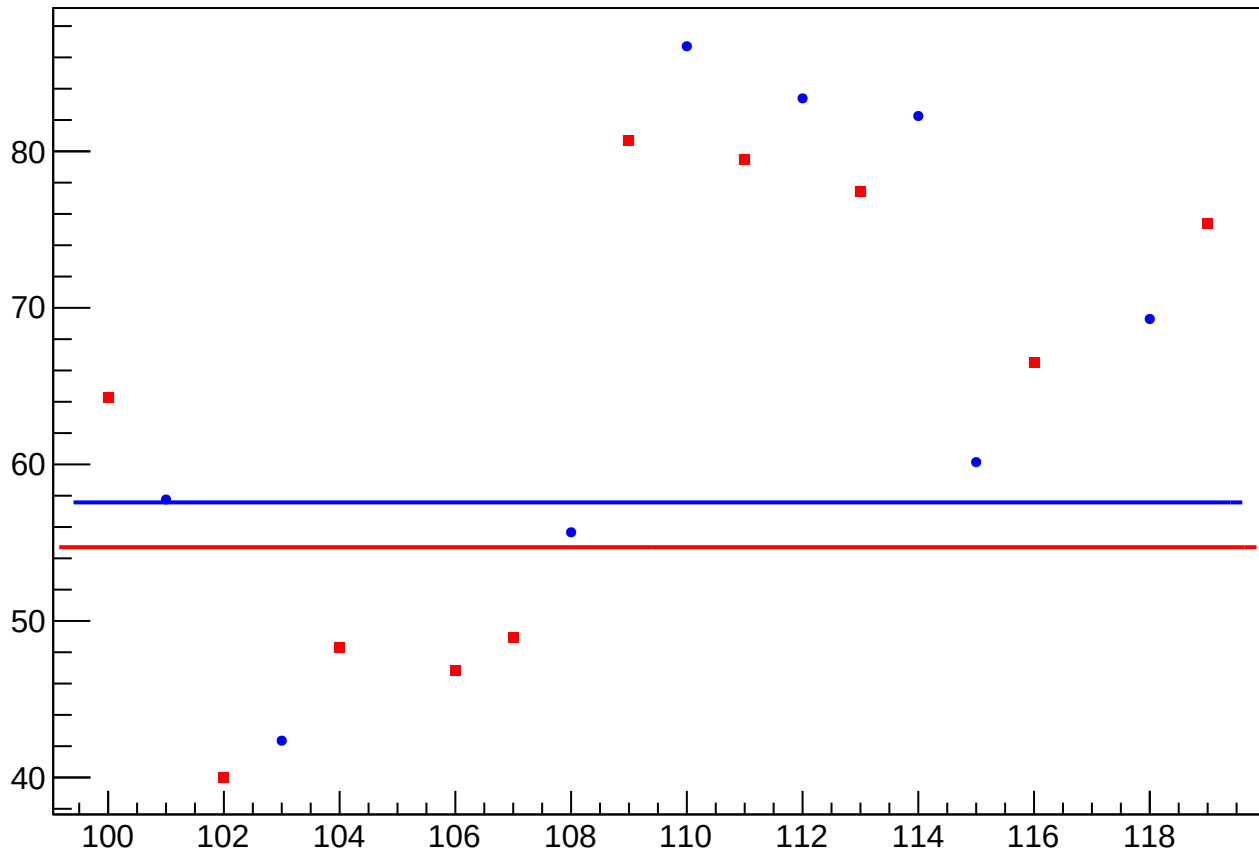
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.023+/-0.022  $\chi^2/\text{NDF}$ : 21.9/17

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

# asym\_usr\_overload\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 57.572 $\pm$ 0.023  $\chi^2$ /NDF: 377690.3/7

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

Right Out: 54.711 $\pm$ 0.020  $\chi^2$ /NDF: 583679.2/9

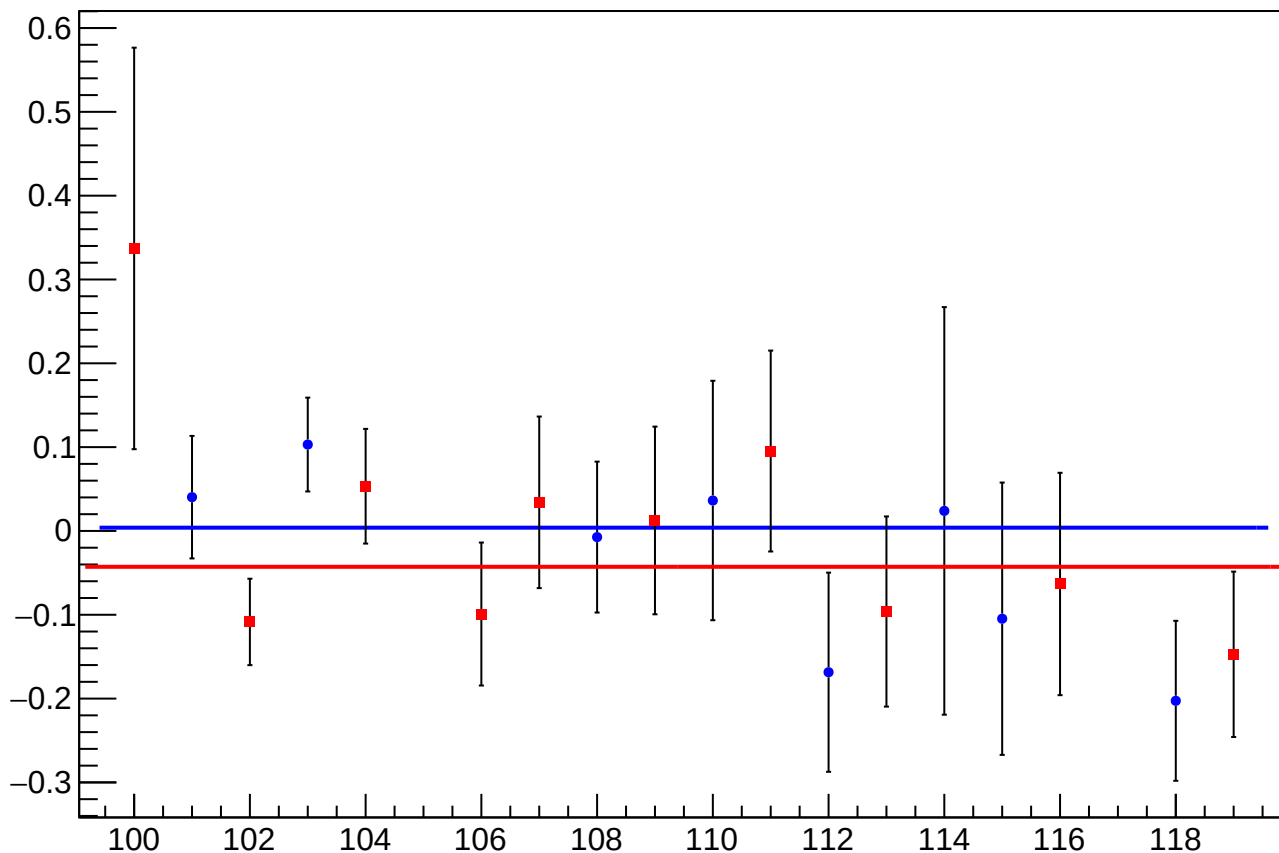
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 55.933 $\pm$ 0.015  $\chi^2$ /NDF: 969946.4/17

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

asym\_usr\_overload\_cor\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.004 $\pm$ 0.033  $\chi^2$ /NDF: 10.7/7

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

Right Out: -0.043 $\pm$ 0.029  $\chi^2$ /NDF: 10.1/9

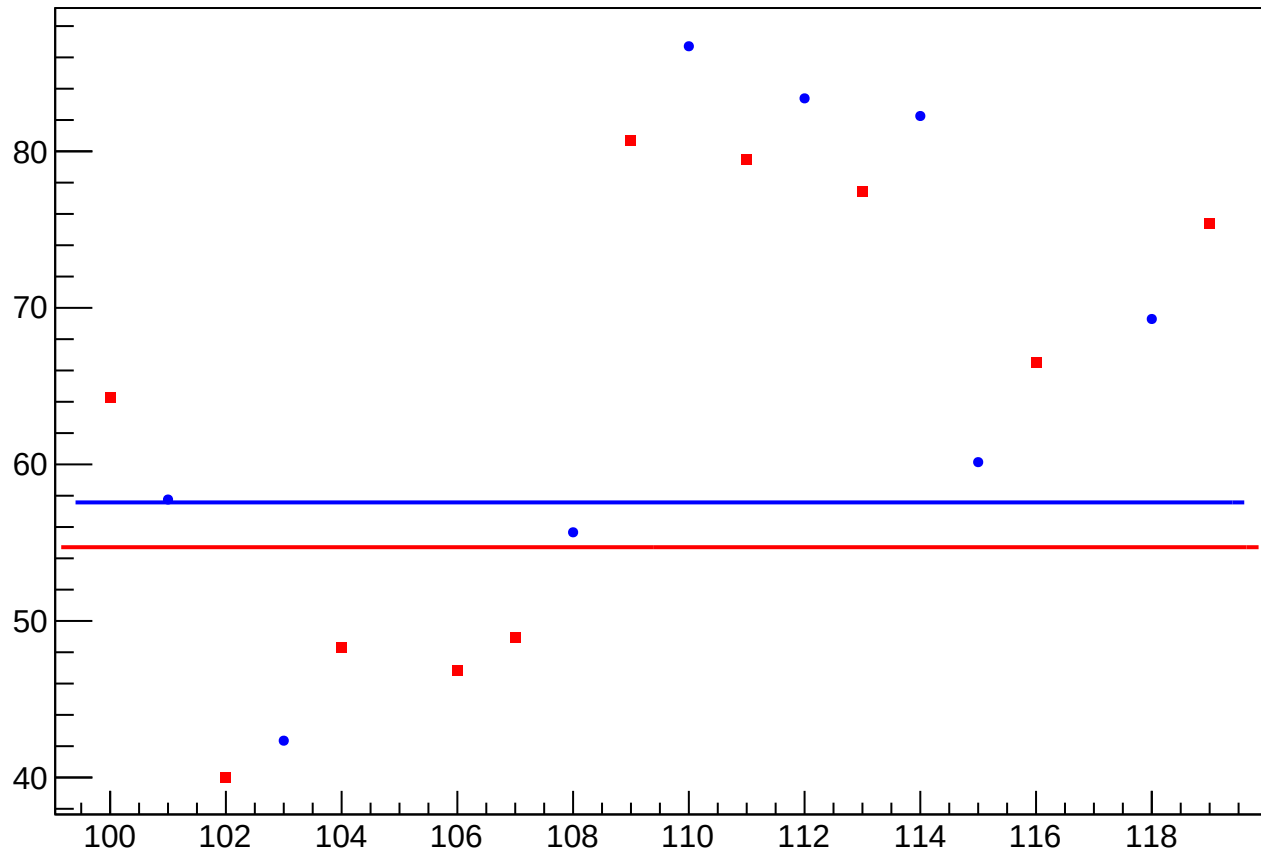
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.023 $\pm$ 0.022  $\chi^2$ /NDF: 21.9/17

- 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: 57.572 $\pm$ 0.023  $\chi^2$ /NDF: 377690.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.711 $\pm$ 0.020  $\chi^2$ /NDF: 583679.2/9

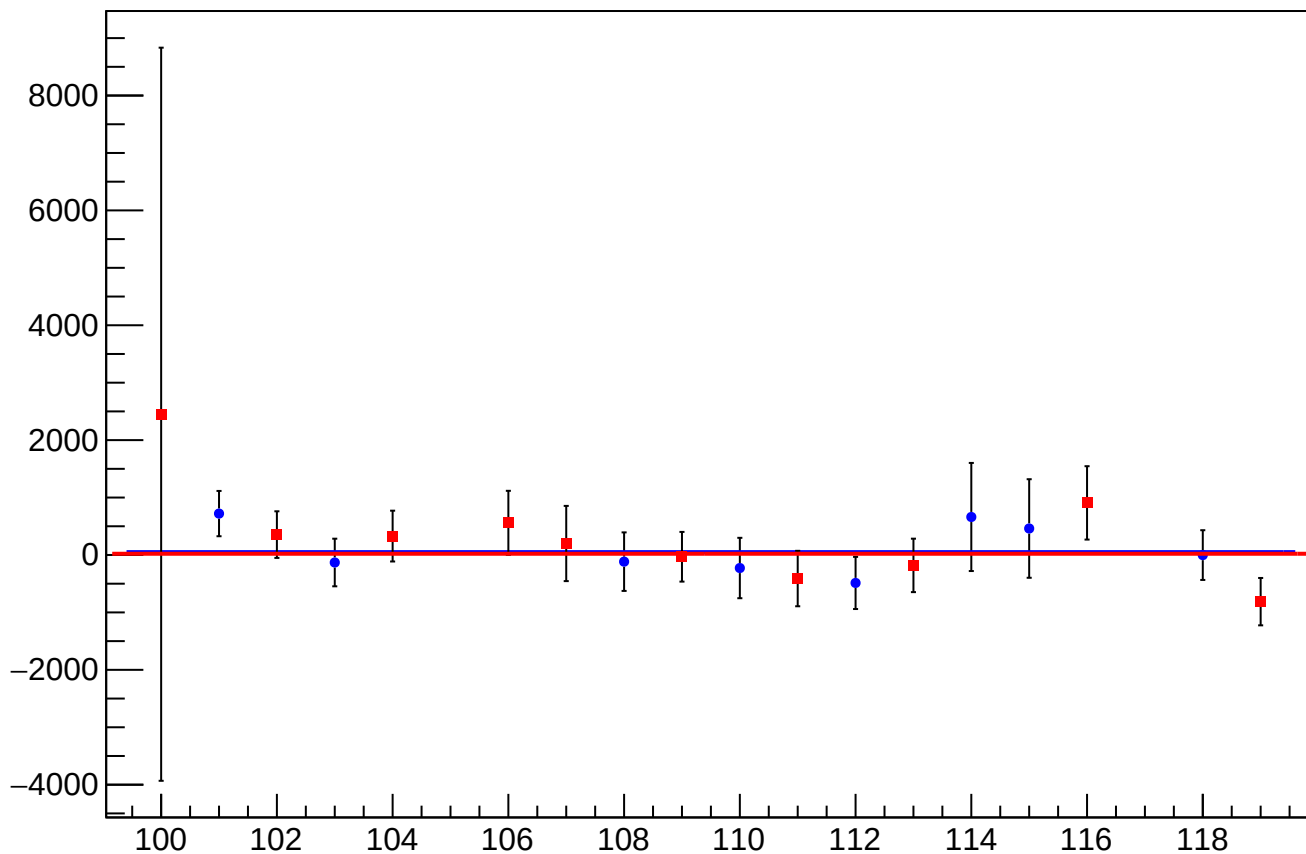
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 55.933 $\pm$ 0.015  $\chi^2$ /NDF: 969946.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_dsl\_mean vs Slug



Right In: 49.555+/-175.703  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.265+/-159.461  $\chi^2/\text{NDF}$ : 9.3/9

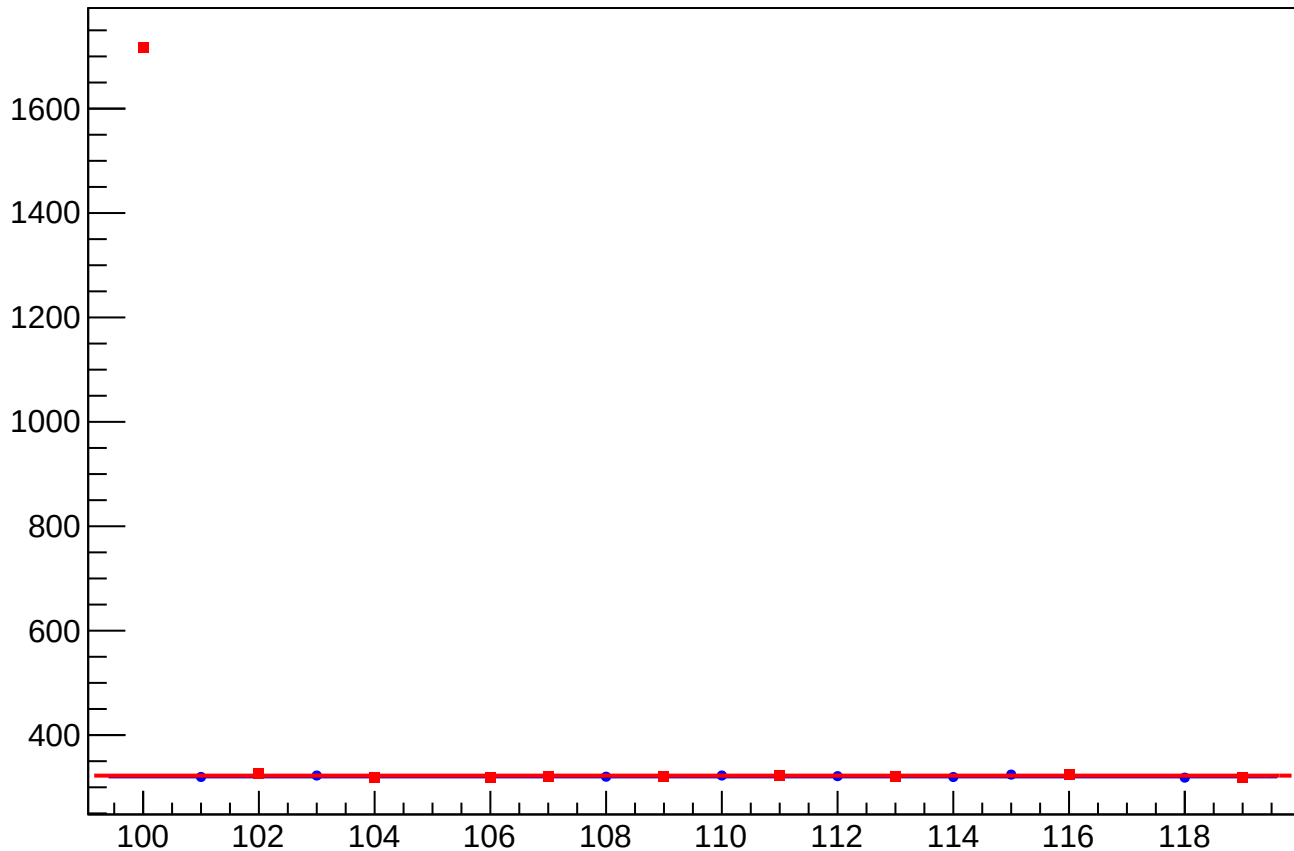
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.042+/-118.081  $\chi^2/\text{NDF}$ : 14.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_dsl\_rms vs Slug



Right In: 320.855 $\pm$ 0.124  $\chi^2$ /NDF: 167.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 322.342 $\pm$ 0.113  $\chi^2$ /NDF: 96405.1/9

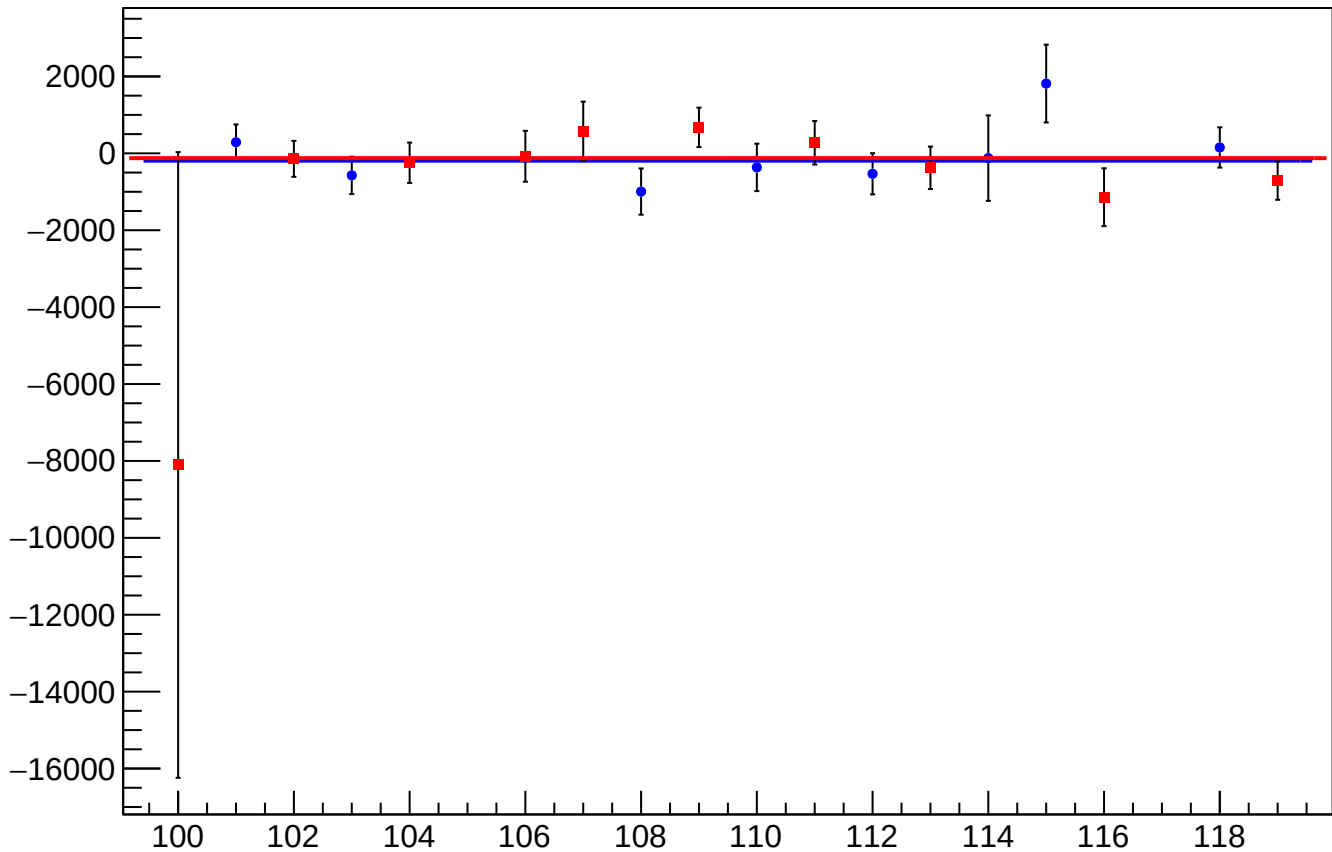
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 321.671 $\pm$ 0.083  $\chi^2$ /NDF: 96650.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_dsr\_mean vs Slug



Right In: -189.801+/-207.488  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -124.999+/-188.294  $\chi^2$ /NDF: 8.2/9

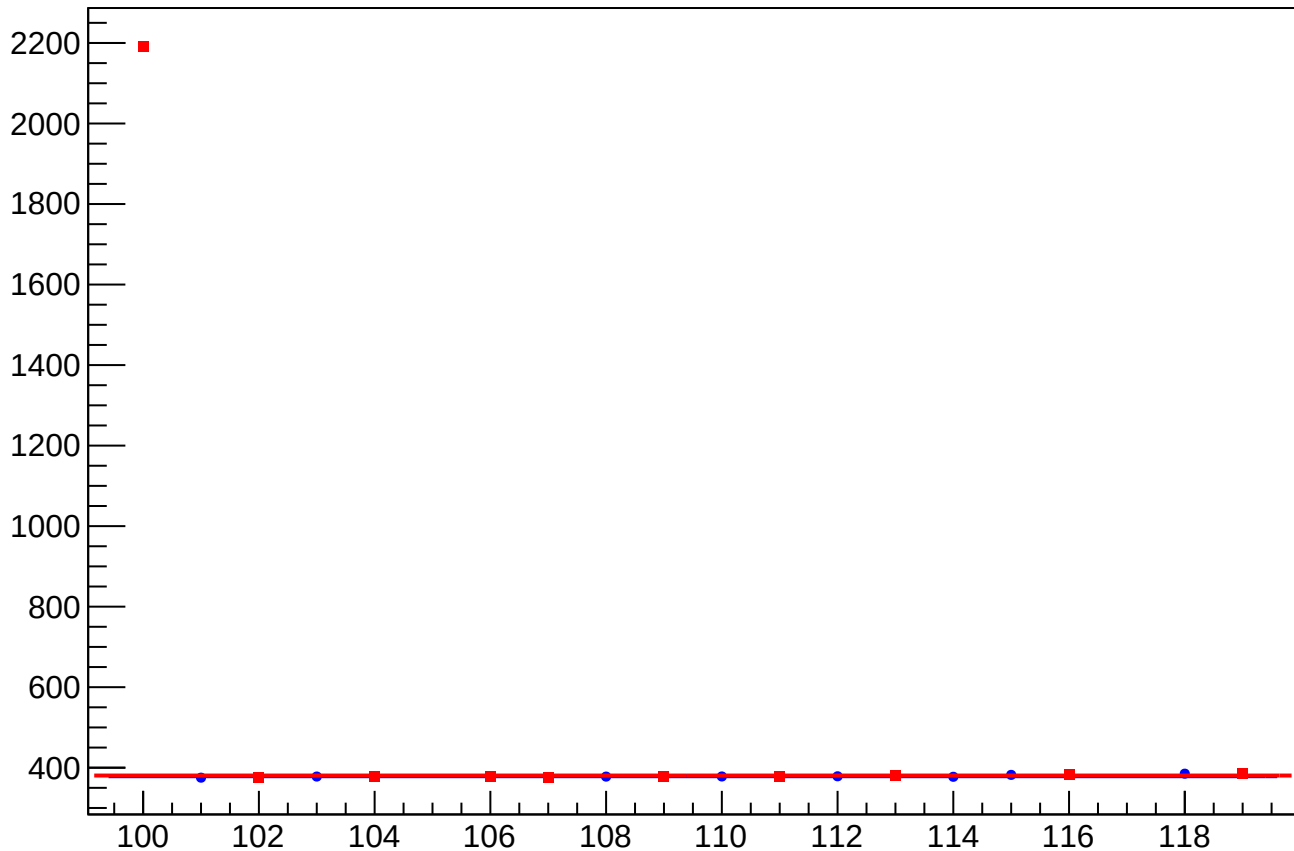
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -154.265+/-139.437  $\chi^2$ /NDF: 16.6/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_dsr\_rms vs Slug



Right In: 378.866 $\pm$ 0.147  $\chi^2$ /NDF: 450.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 380.543 $\pm$ 0.133  $\chi^2$ /NDF: 99383.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

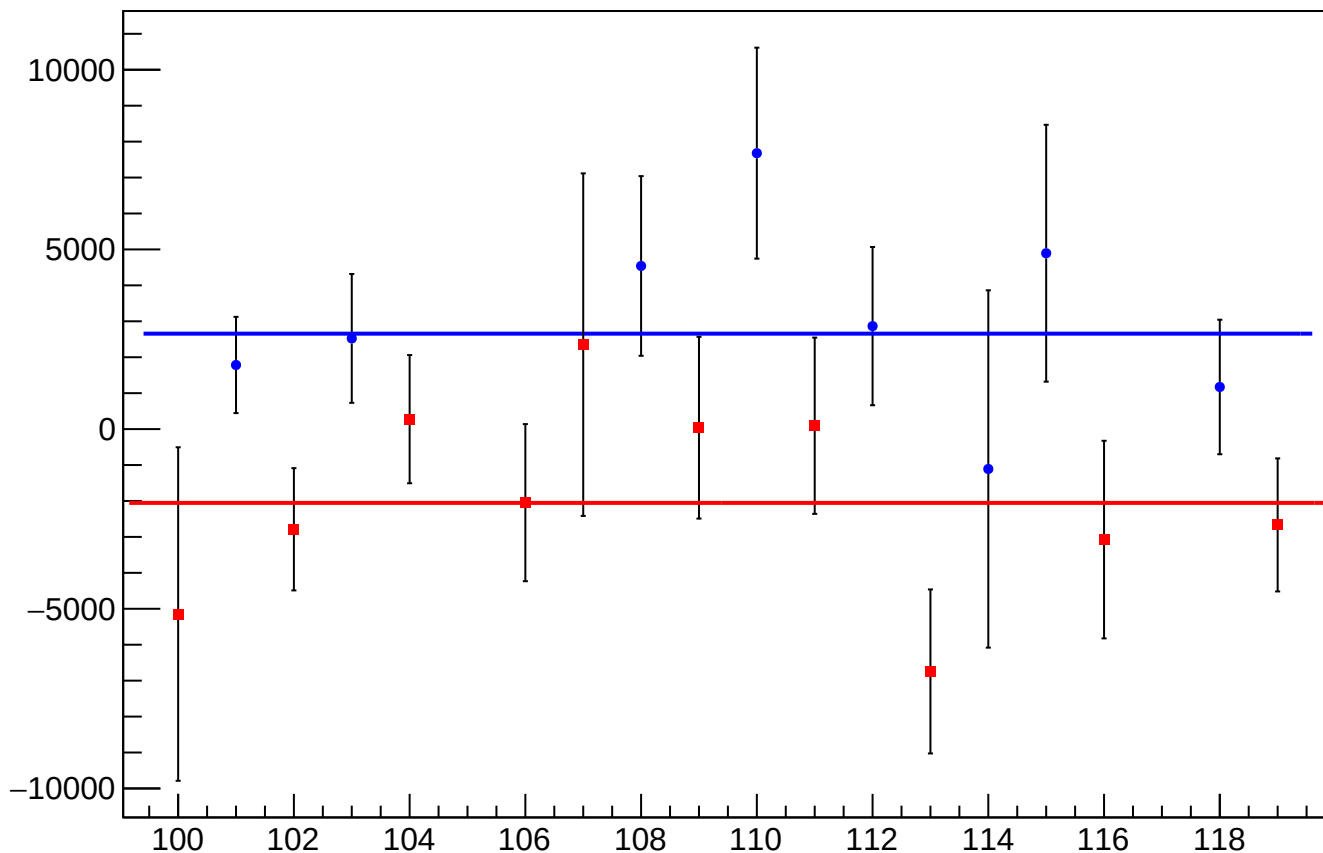
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 379.786 $\pm$ 0.099  $\chi^2$ /NDF: 99905.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_us\_agg\_avg\_mean vs Slug



Right In: 2655.939+/-754.800  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2053.457+/-725.822  $\chi^2/\text{NDF}$ : 9.1/9

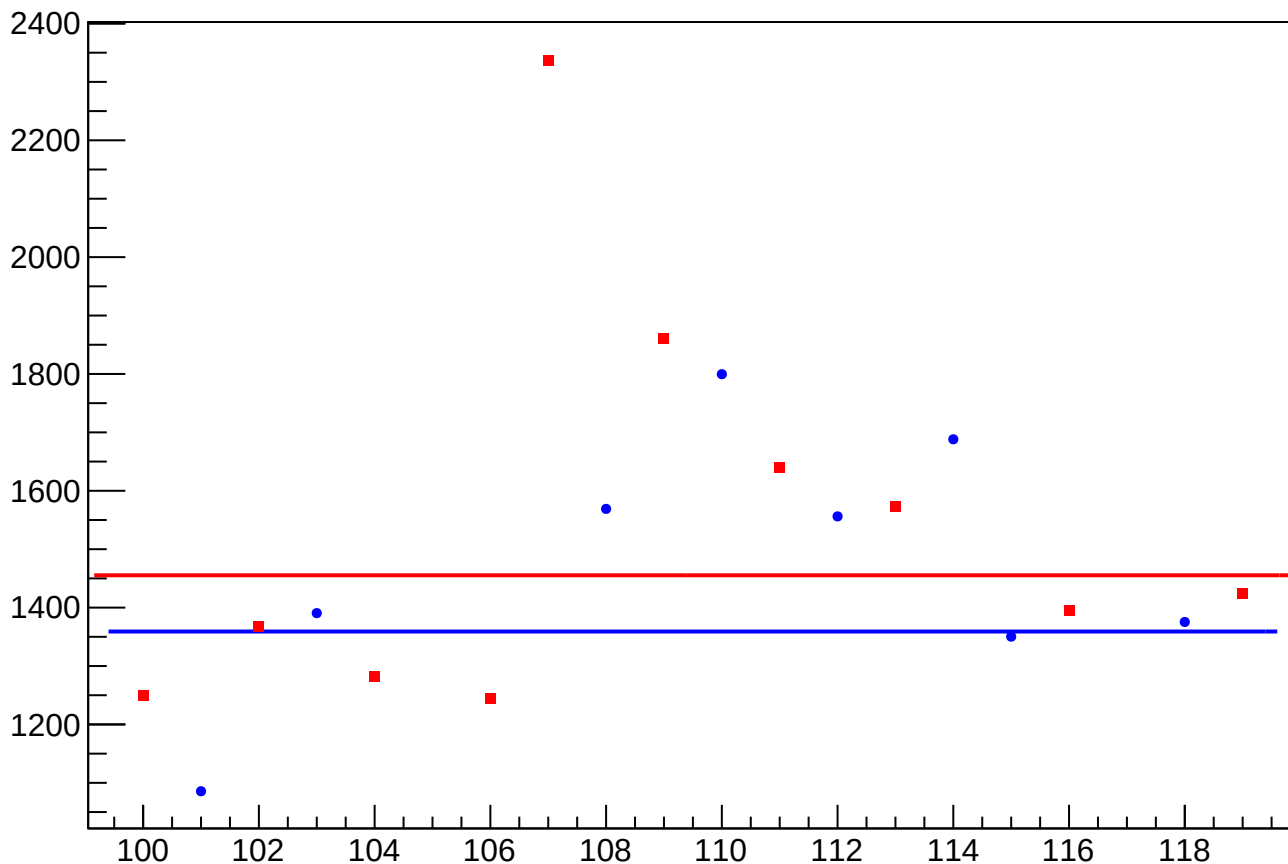
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 209.107+/-523.178  $\chi^2/\text{NDF}$ : 34.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_agg\_avg\_rms vs Slug



Right In: 1359.075 $\pm$ 0.534  $\chi^2$ /NDF: 168087.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1455.317 $\pm$ 0.513  $\chi^2$ /NDF: 184501.1/9

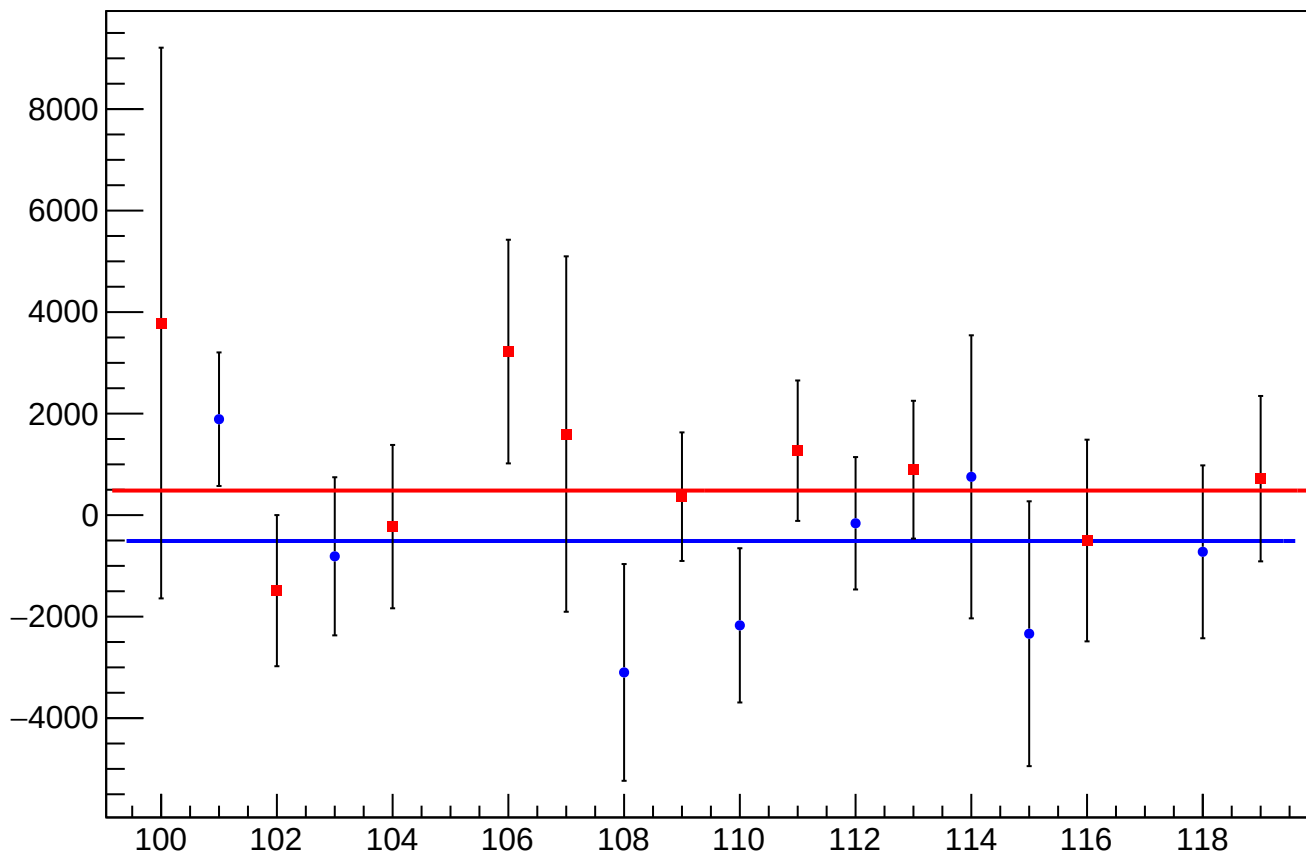
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1409.079 $\pm$ 0.370  $\chi^2$ /NDF: 369482.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_agg\_dd\_mean vs Slug



Right In: -509.690+/-592.327  $\chi^2/\text{NDF}$ : 6.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 484.032+/-536.300  $\chi^2/\text{NDF}$ : 4.7/9

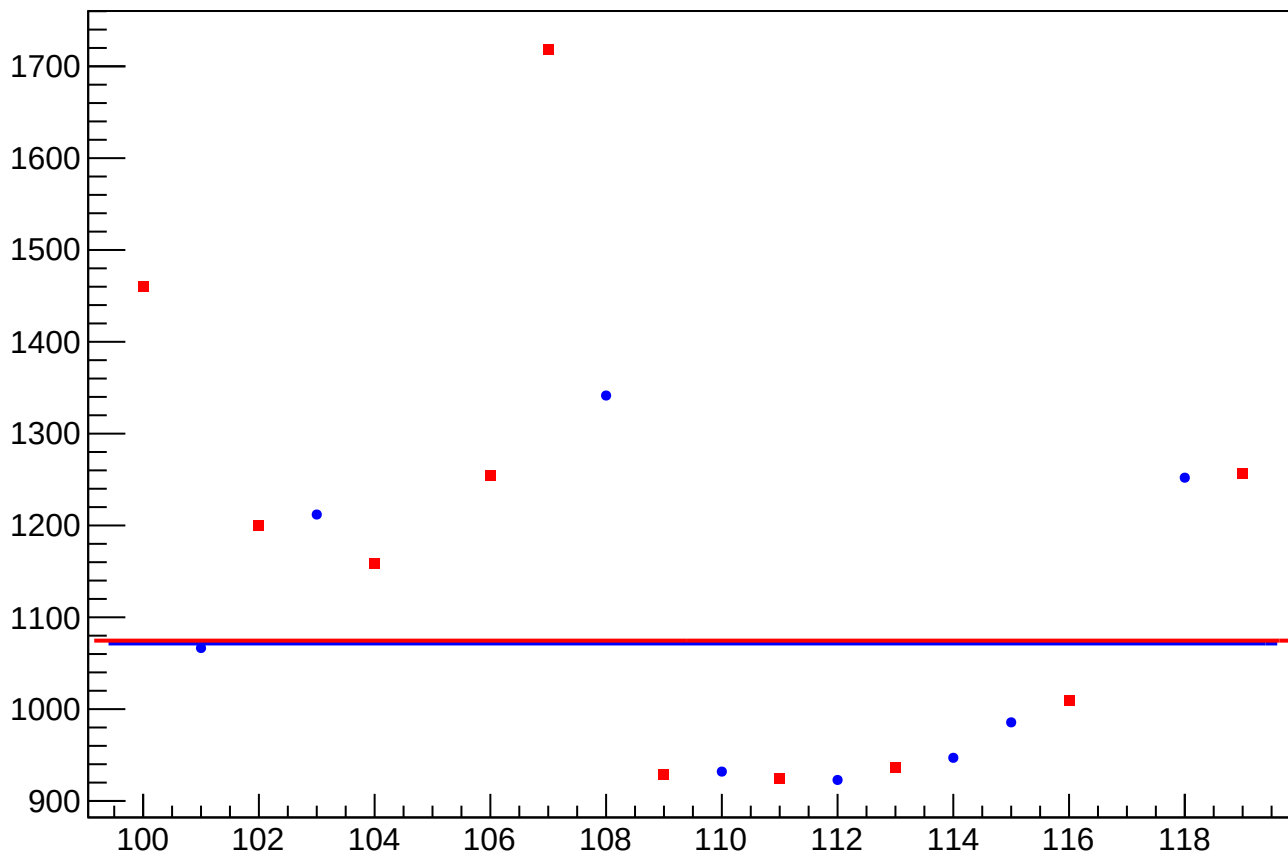
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.380+/-397.557  $\chi^2/\text{NDF}$ : 13.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_agg\_dd\_rms vs Slug



Right In: 1071.517 $\pm$ 0.419  $\chi^2$ /NDF: 119709.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1074.596 $\pm$ 0.379  $\chi^2$ /NDF: 208151.7/9

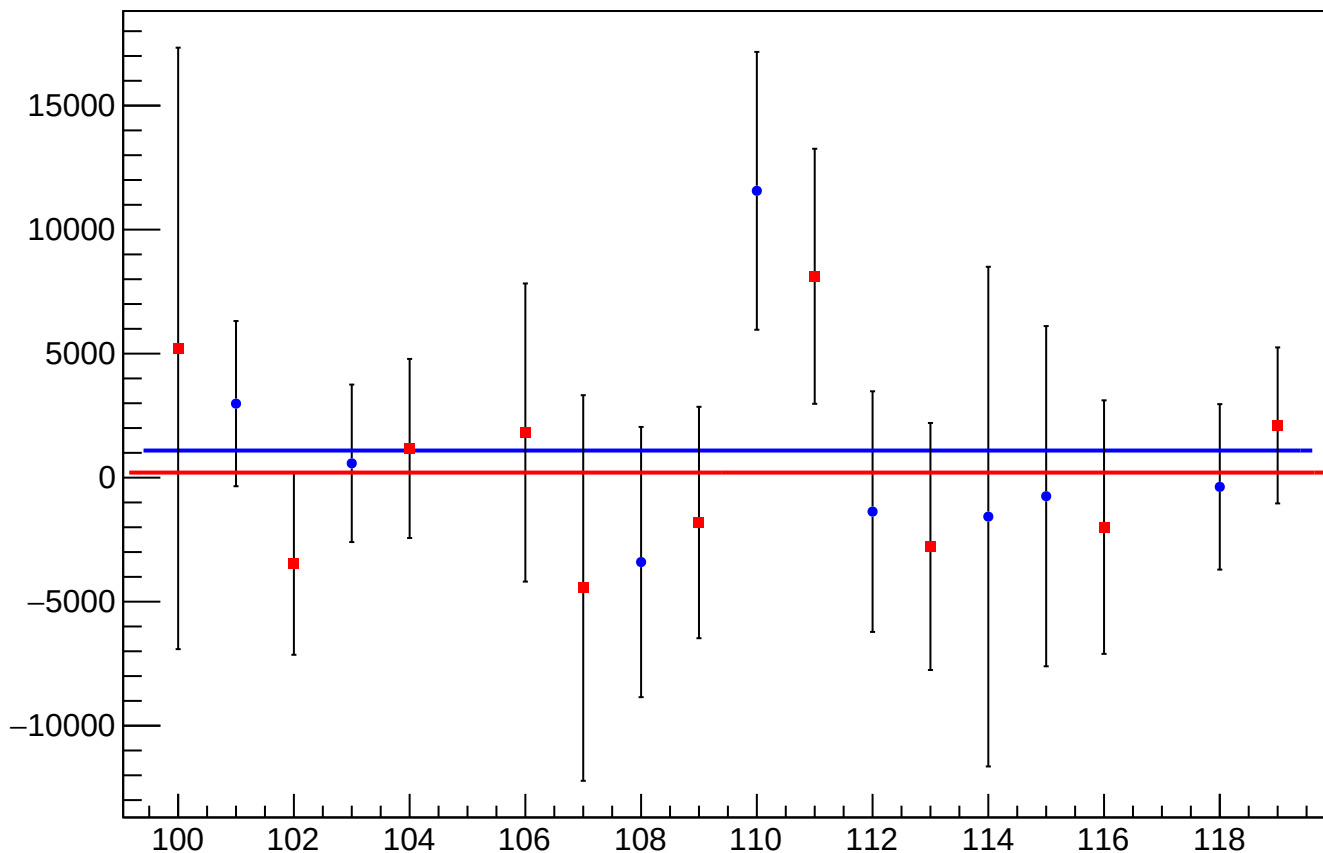
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1073.209 $\pm$ 0.281  $\chi^2$ /NDF: 327890.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1\_mean vs Slug



Right In: 1093.063+/-1545.823  $\chi^2/\text{NDF}$ : 5.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 204.933+/-1466.131  $\chi^2/\text{NDF}$ : 5.1/9

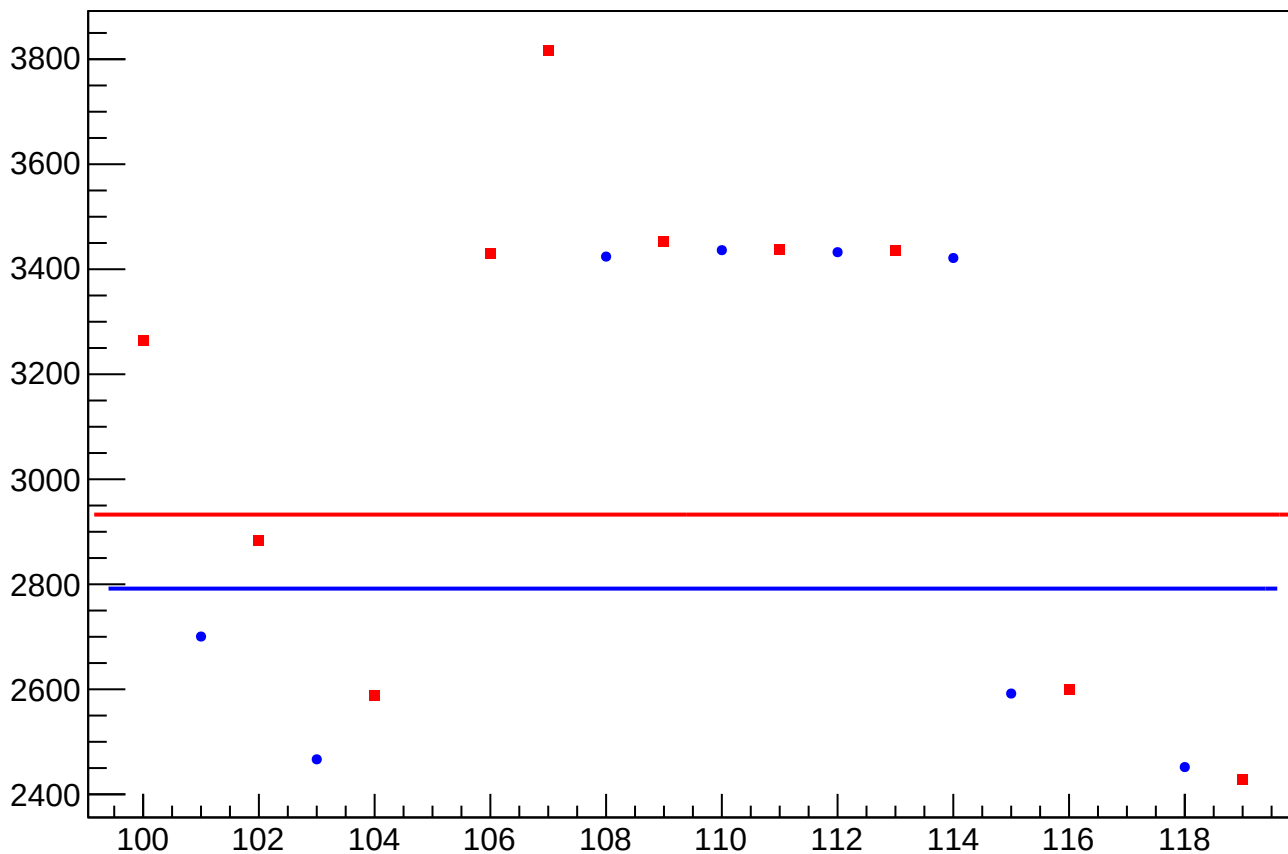
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 625.516+/-1063.769  $\chi^2/\text{NDF}$ : 10.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_rms vs Slug



Right In: 2791.786 $\pm$ 1.093  $\chi^2$ /NDF: 141096.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2932.729 $\pm$ 1.037  $\chi^2$ /NDF: 184314.8/9

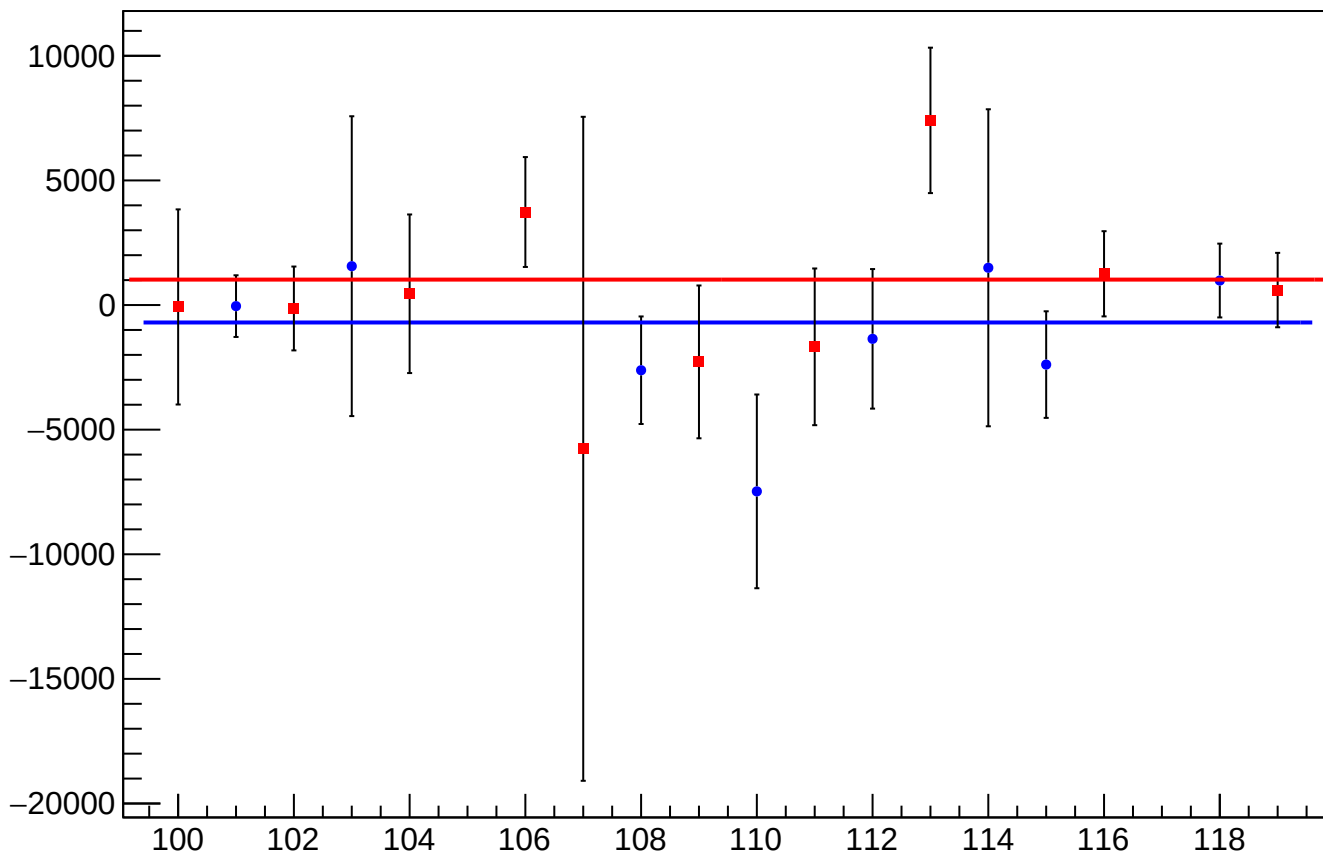
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2865.984 $\pm$ 0.752  $\chi^2$ /NDF: 334164.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_reg\_correction\_mean vs Slug



Right In: -699.910+/-747.679  $\chi^2/\text{NDF}$ : 6.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1020.748+/-736.221  $\chi^2/\text{NDF}$ : 9.1/9

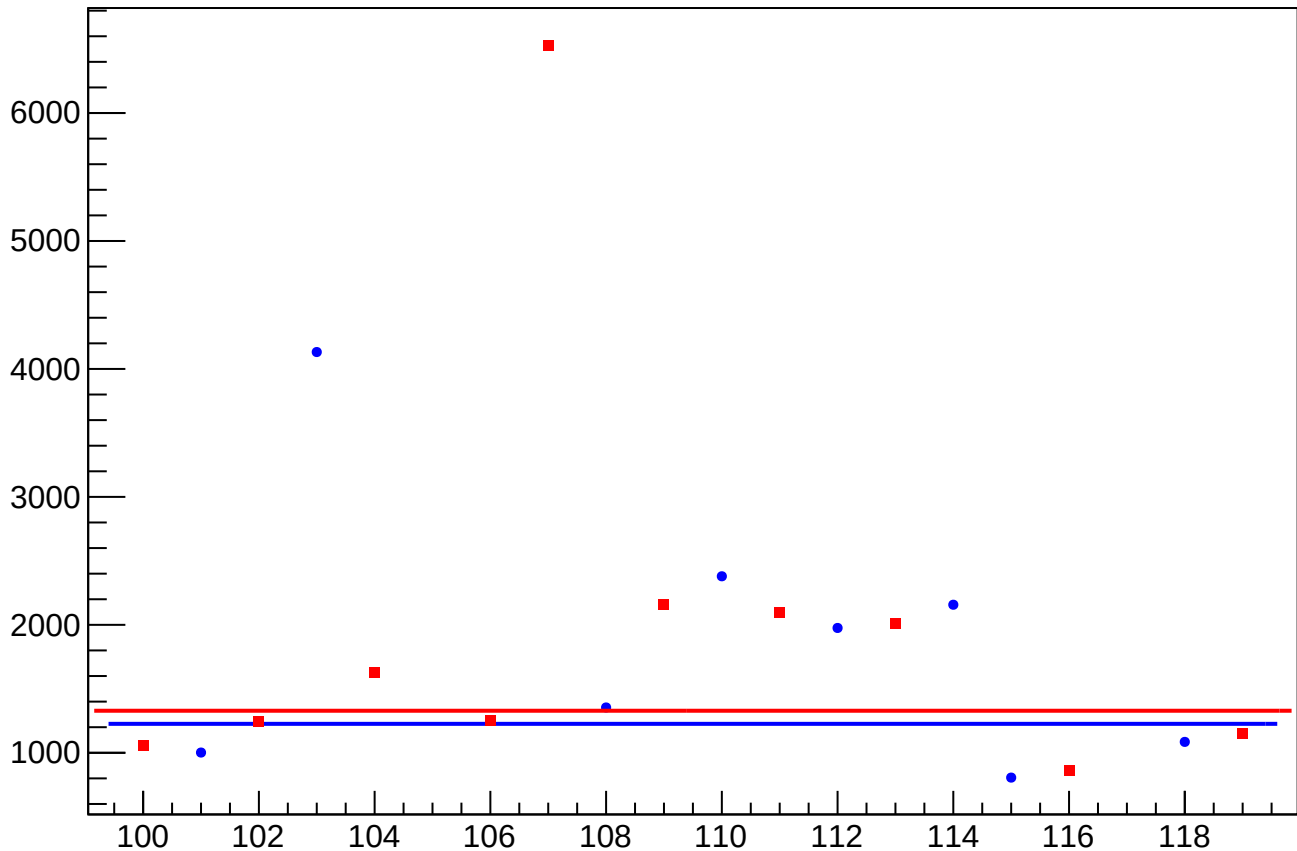
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 173.704+/-524.591  $\chi^2/\text{NDF}$ : 18.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_reg\_correction\_rms vs Slug



Right In: 1226.270+/-0.529  $\chi^2/\text{NDF}$ : 997054.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1328.672+/-0.521  $\chi^2/\text{NDF}$ : 894186.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

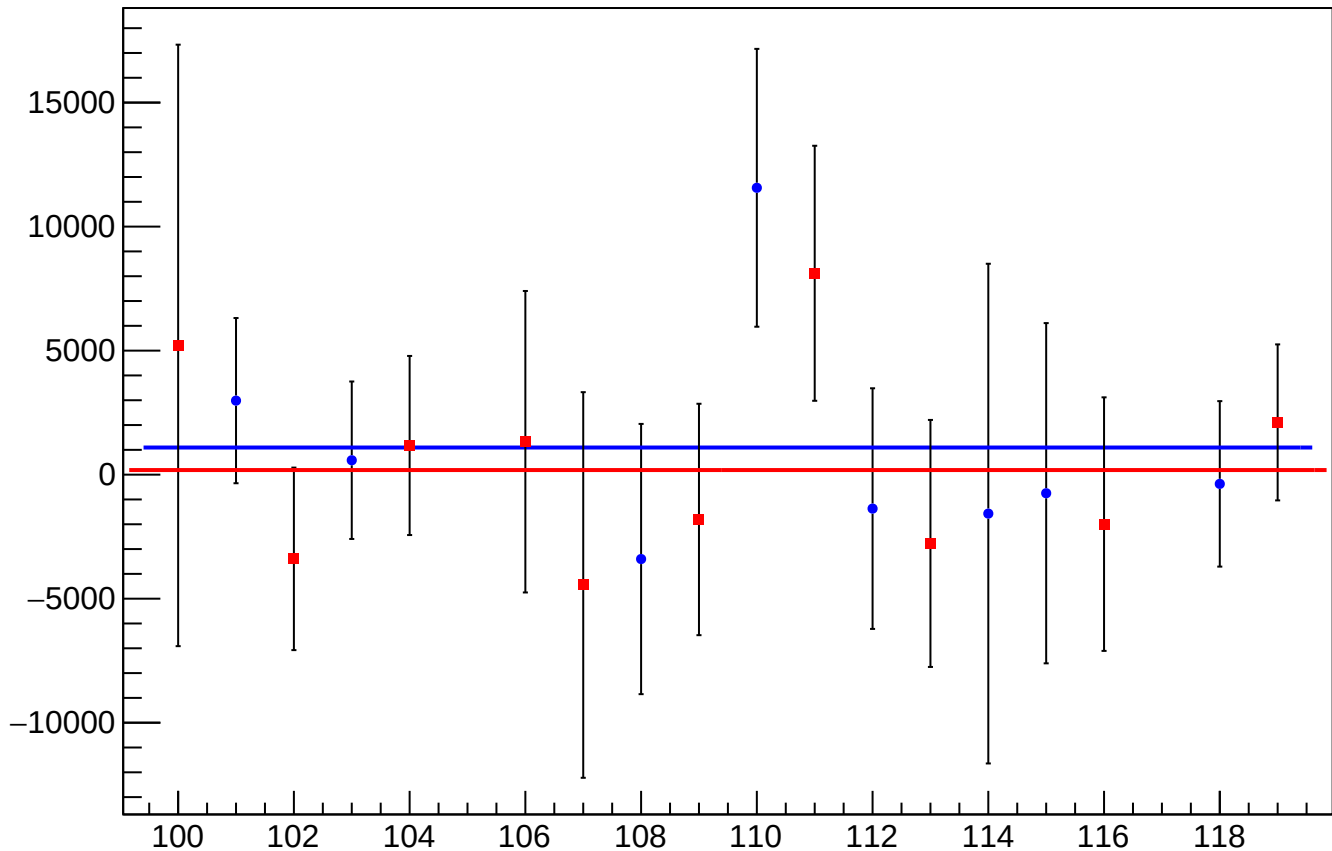
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1278.262+/-0.371  $\chi^2/\text{NDF}$ : 1910289.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atl1\_mean vs Slug



Right In: 1094.063+/-1545.823  $\chi^2/\text{NDF}$ : 5.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 185.521+/-1467.122  $\chi^2/\text{NDF}$ : 5.1/9

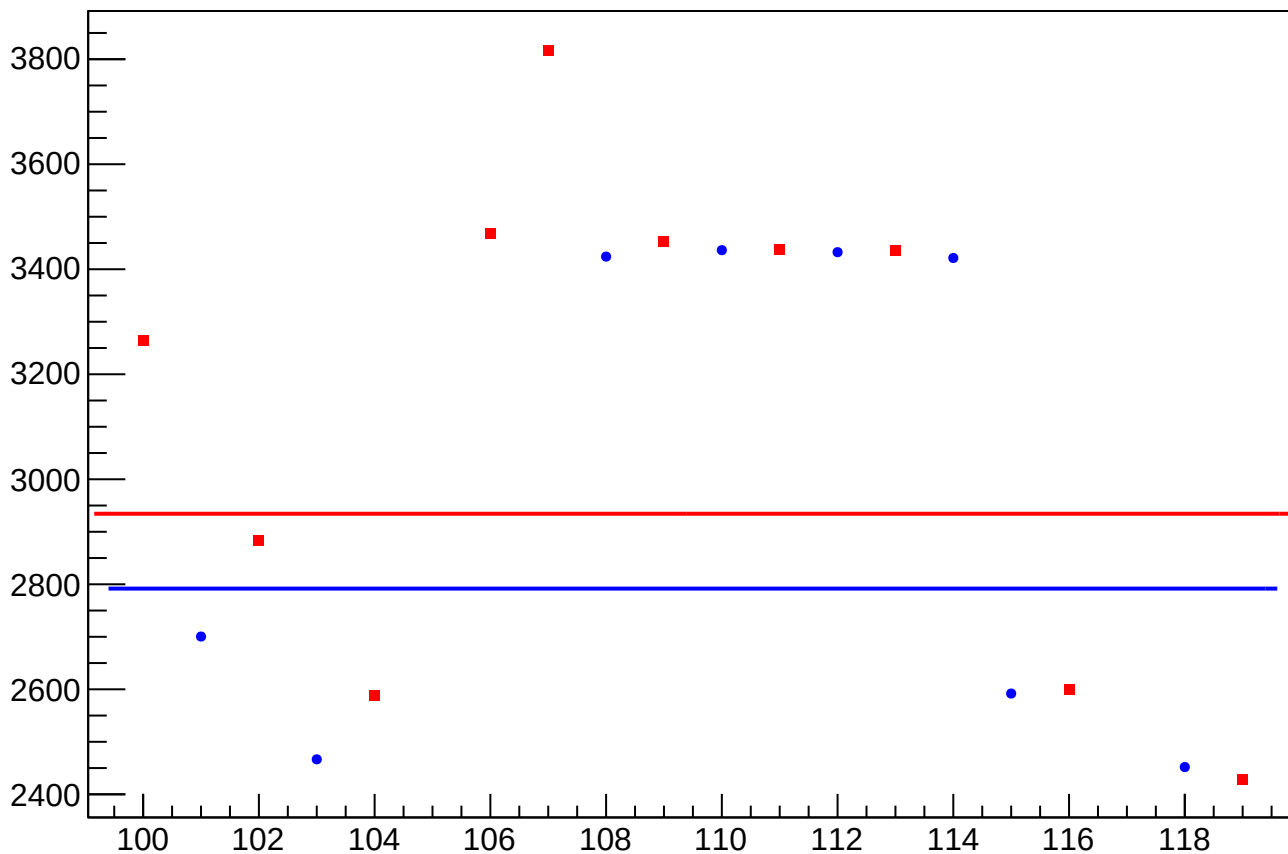
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 616.076+/-1064.147  $\chi^2/\text{NDF}$ : 10.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl1\_rms vs Slug



Right In: 2791.786+/-1.093  $\chi^2/\text{NDF}$ : 141096.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2934.351+/-1.037  $\chi^2/\text{NDF}$ : 186133.2/9

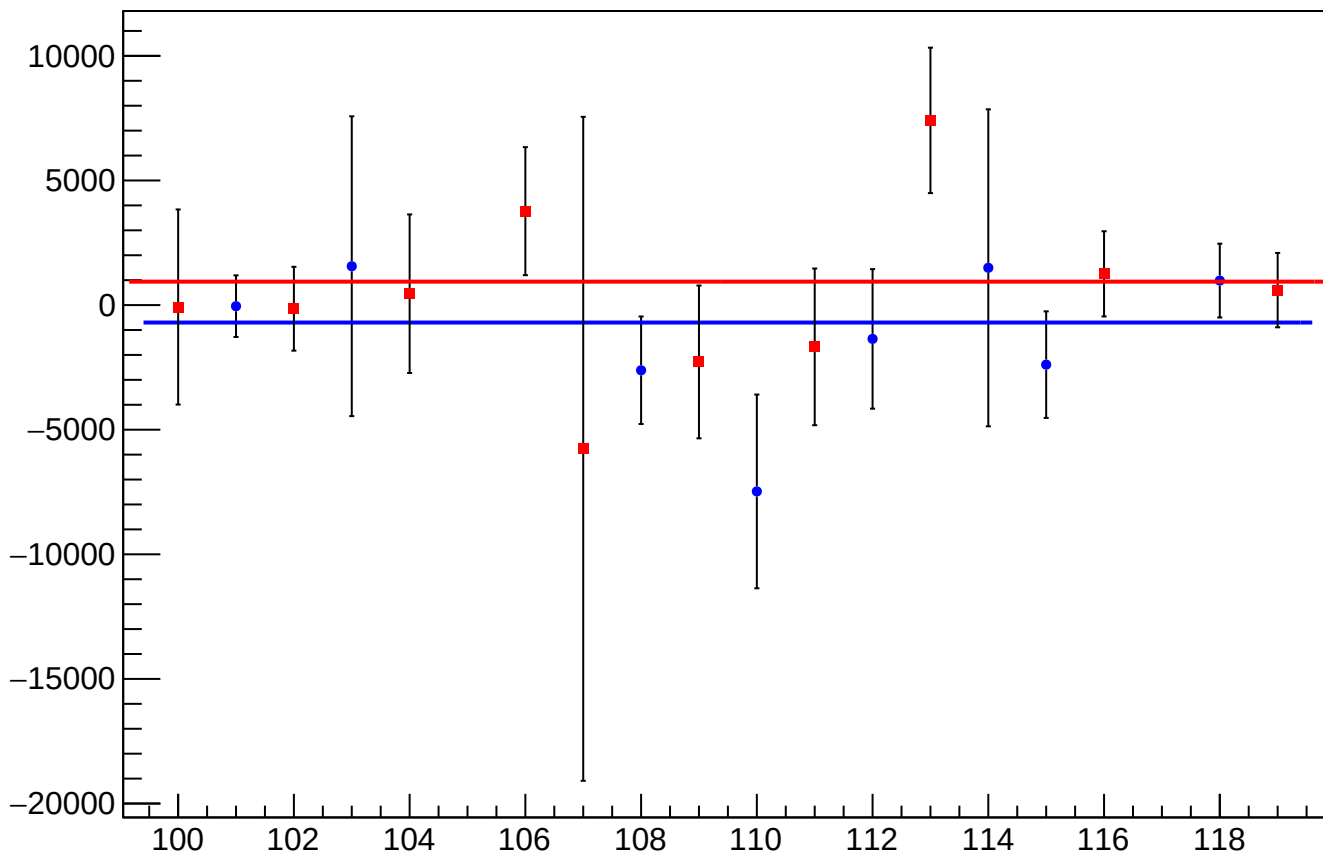
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2866.790+/-0.752  $\chi^2/\text{NDF}$ : 336179.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_cor\_correction\_mean vs Slug



Right In: -699.985+/-747.670  $\chi^2/\text{NDF}$ : 6.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 940.434+/-747.264  $\chi^2/\text{NDF}$ : 8.8/9

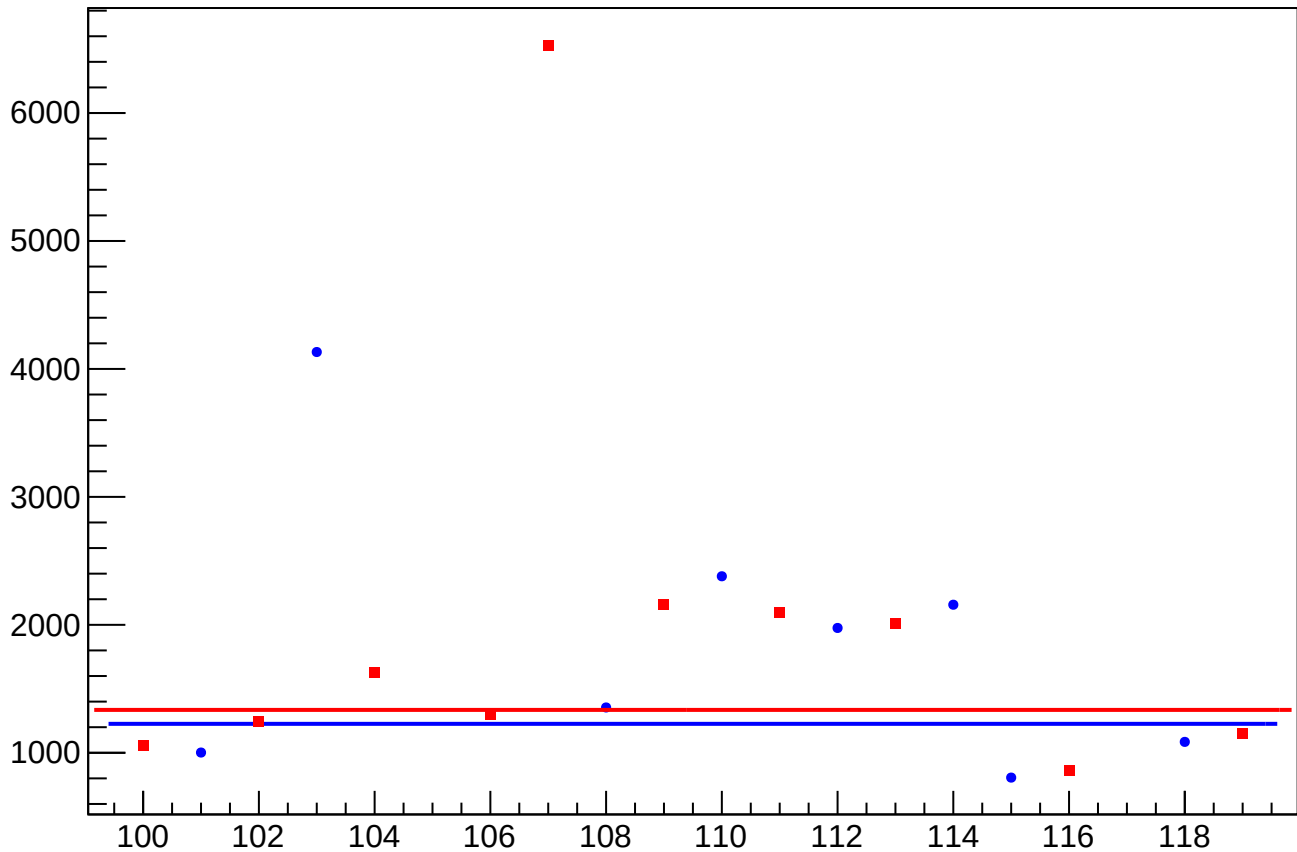
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 120.670+/-528.539  $\chi^2/\text{NDF}$ : 17.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_cor\_correction\_rms vs Slug



Right In: 1226.248+/-0.529  $\chi^2/\text{NDF}$ : 997082.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1335.171+/-0.528  $\chi^2/\text{NDF}$ : 891831.7/9

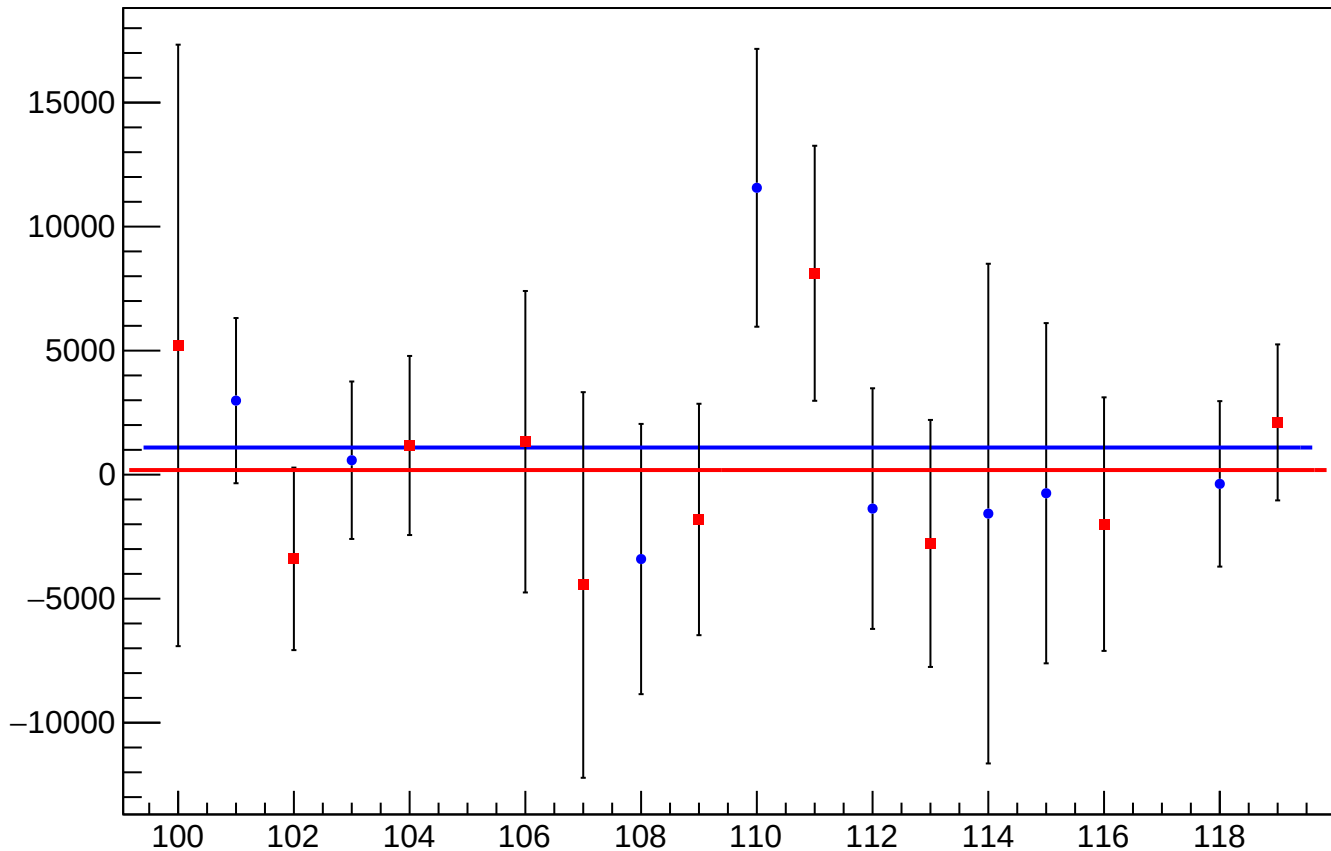
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1280.739+/-0.374  $\chi^2/\text{NDF}$ : 1910149.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl1\_mean vs Slug



Right In: 1094.063+/-1545.823  $\chi^2/\text{NDF}$ : 5.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 185.521+/-1467.122  $\chi^2/\text{NDF}$ : 5.1/9

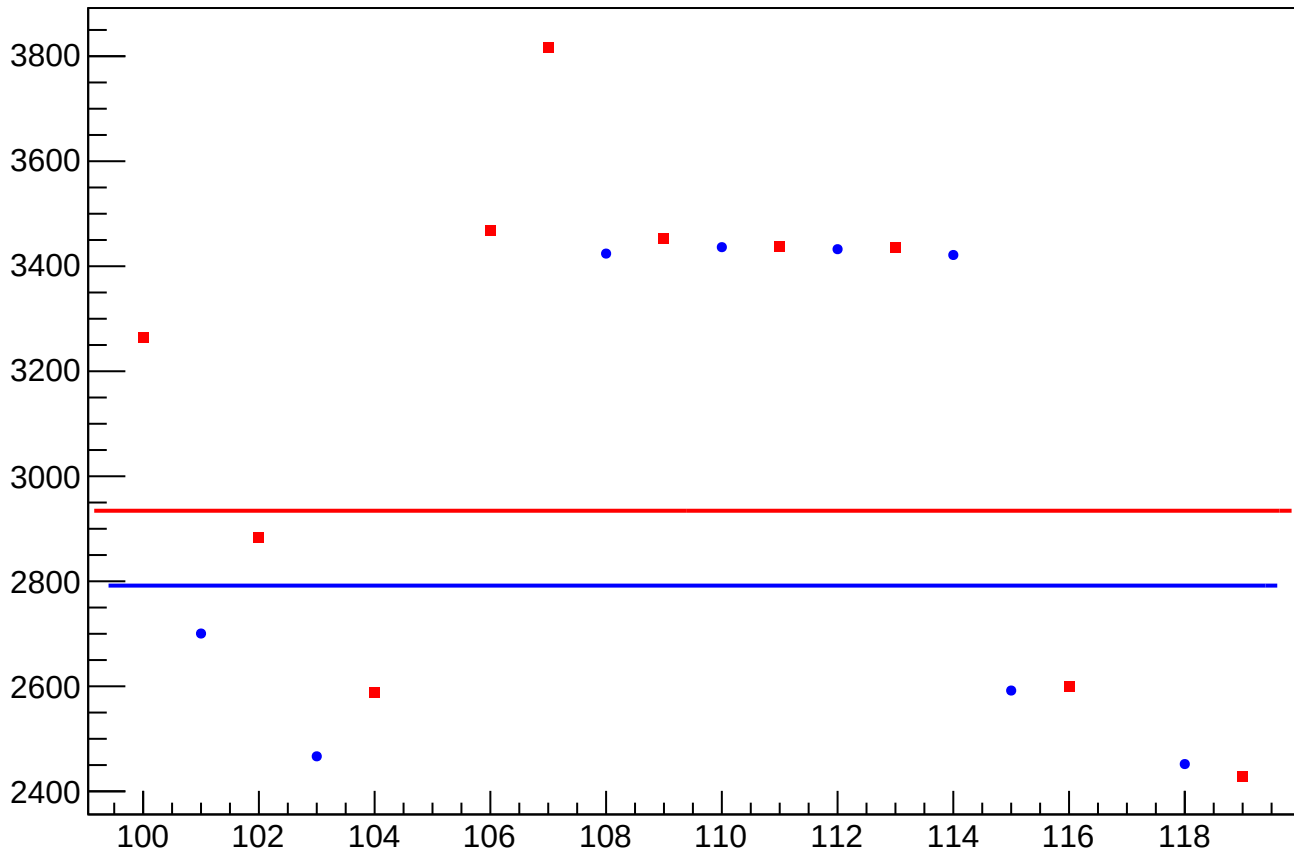
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 616.076+/-1064.147  $\chi^2/\text{NDF}$ : 10.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl1\_rms vs Slug



Right In: 2791.786+/-1.093  $\chi^2/\text{NDF}$ : 141096.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2934.351+/-1.037  $\chi^2/\text{NDF}$ : 186133.2/9

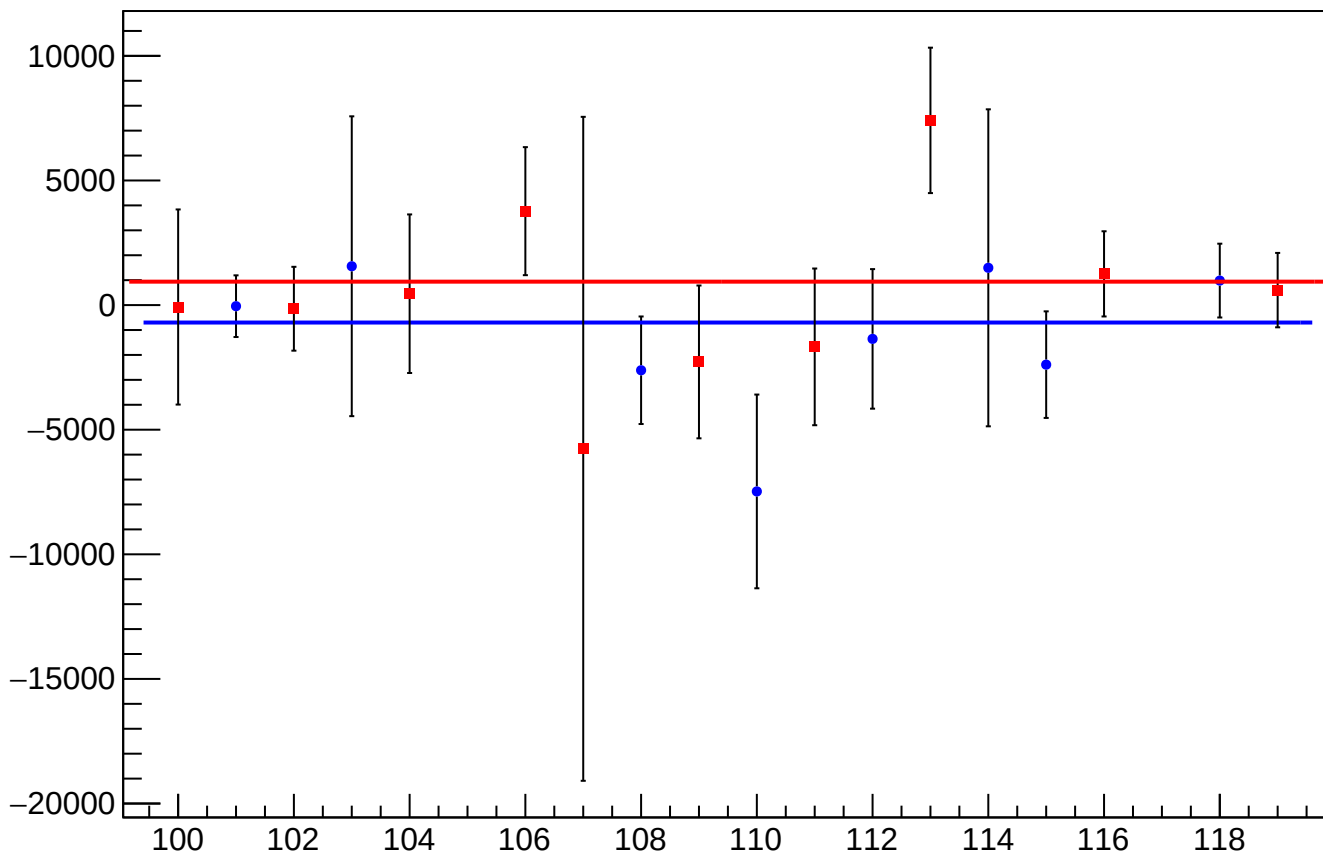
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2866.790+/-0.752  $\chi^2/\text{NDF}$ : 336179.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_cor\_correction\_mean vs Slug



Right In: -699.985+/-747.670  $\chi^2/\text{NDF}$ : 6.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 940.434+/-747.264  $\chi^2/\text{NDF}$ : 8.8/9

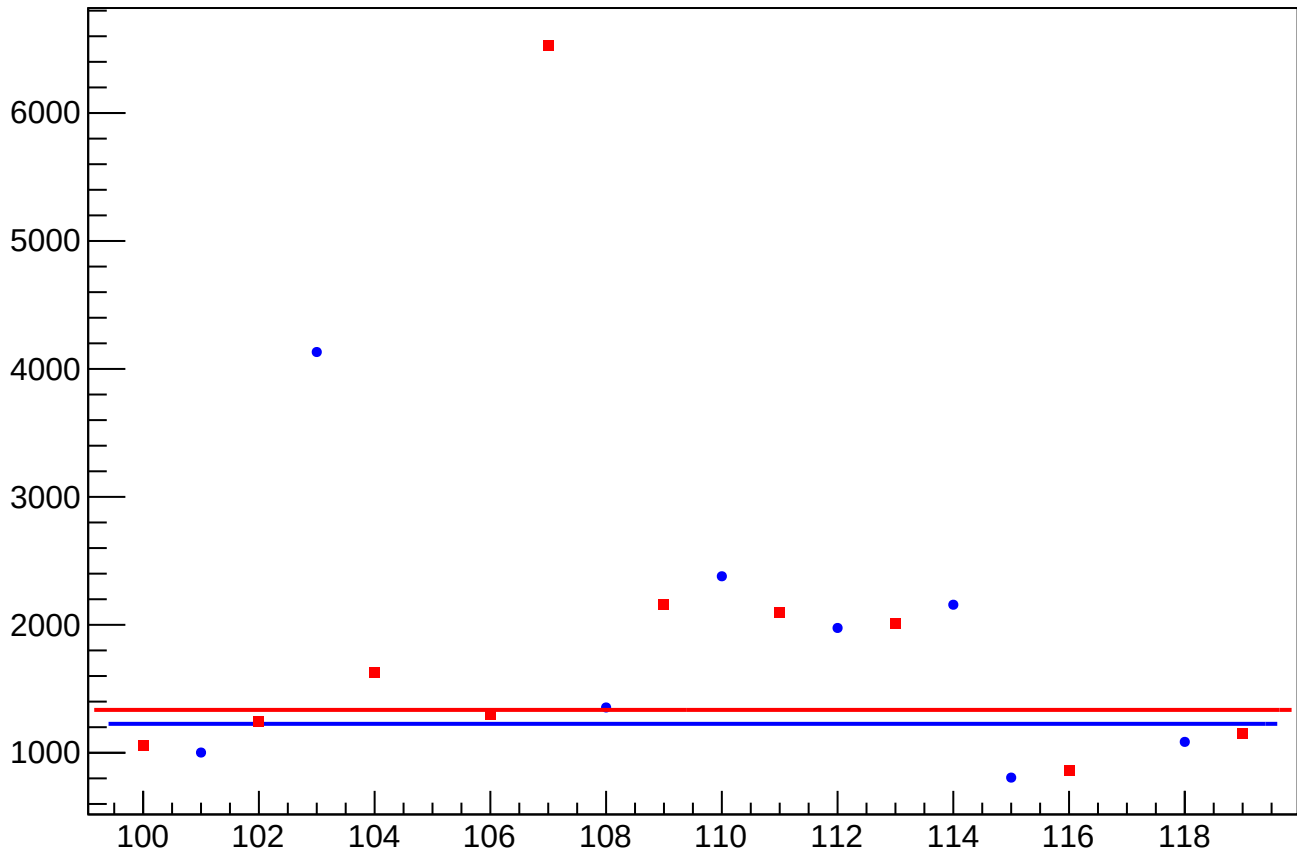
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 120.670+/-528.539  $\chi^2/\text{NDF}$ : 17.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_cor\_correction\_rms vs Slug



Right In: 1226.248+/-0.529  $\chi^2/\text{NDF}$ : 997082.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1335.171+/-0.528  $\chi^2/\text{NDF}$ : 891831.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

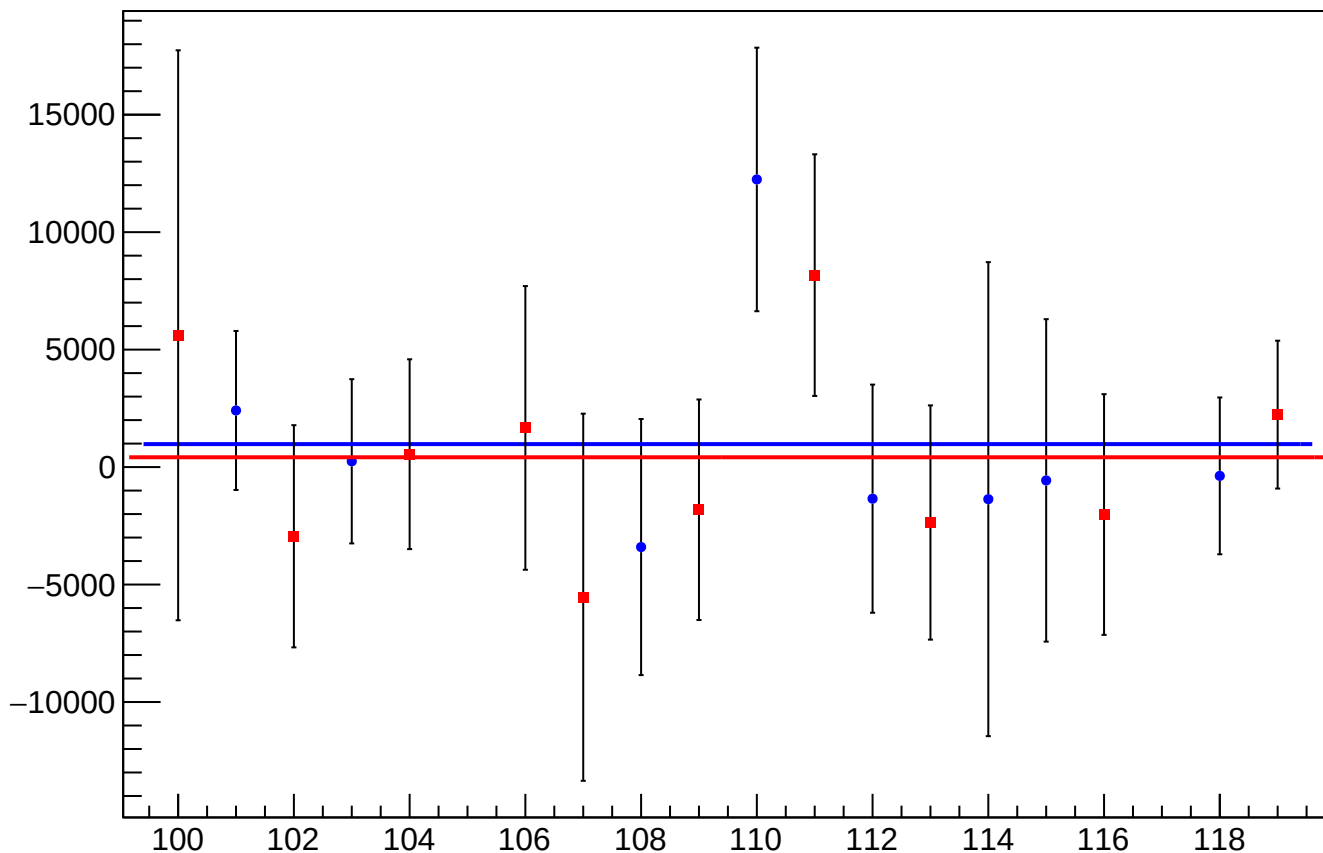
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1280.739+/-0.374  $\chi^2/\text{NDF}$ : 1910149.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_atl1\_mean vs Slug



Right In: 977.756+/-1585.354  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 417.727+/-1544.655  $\chi^2/\text{NDF}$ : 4.7/9

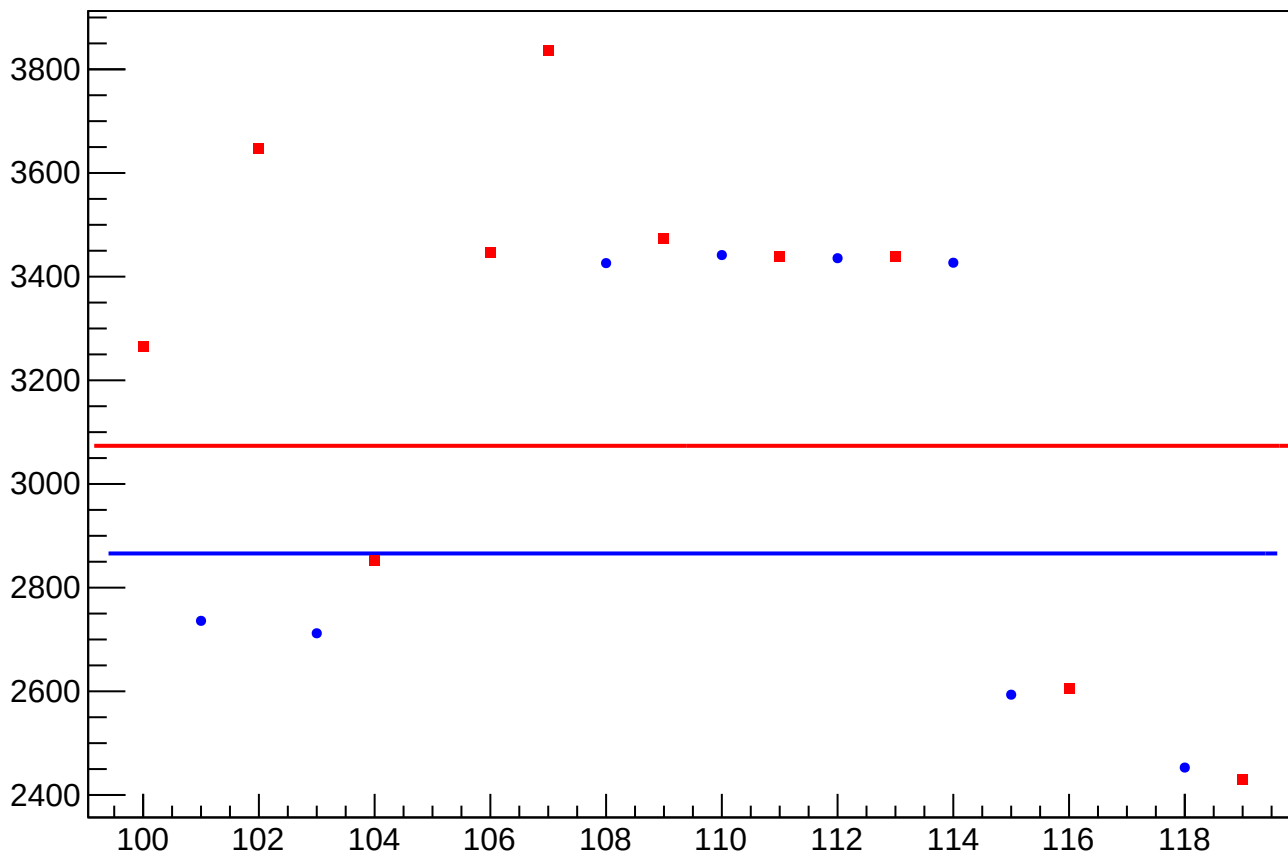
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 690.461+/-1106.344  $\chi^2/\text{NDF}$ : 10.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl1\_rms vs Slug



Right In: 2865.963+/-1.121  $\chi^2/\text{NDF}$ : 116532.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3073.640+/-1.092  $\chi^2/\text{NDF}$ : 198585.7/9

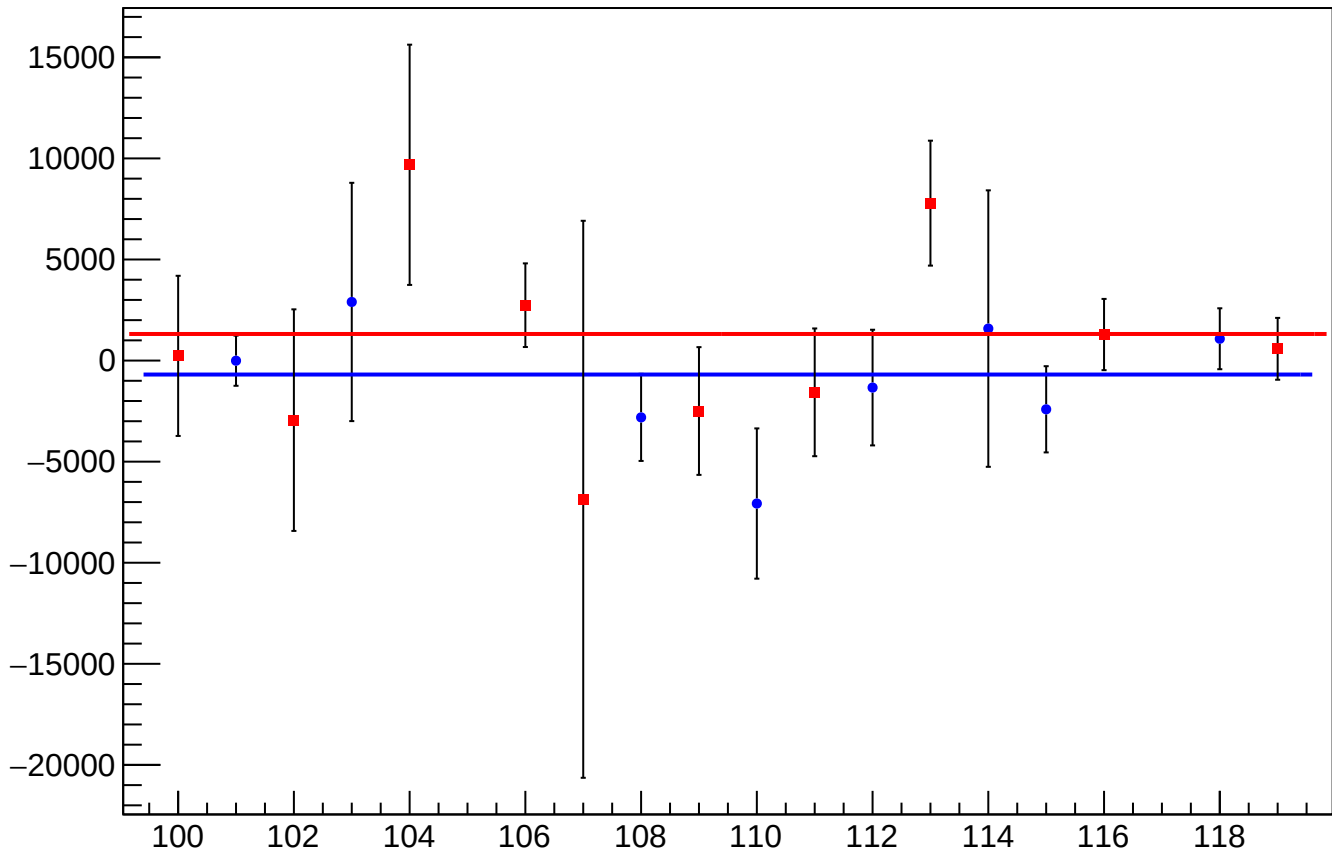
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2972.501+/-0.782  $\chi^2/\text{NDF}$ : 332724.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_dit\_correction\_mean vs Slug



Right In: -690.661+/-751.575  $\chi^2/\text{NDF}$ : 6.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1315.410+/-839.504  $\chi^2/\text{NDF}$ : 10.4/9

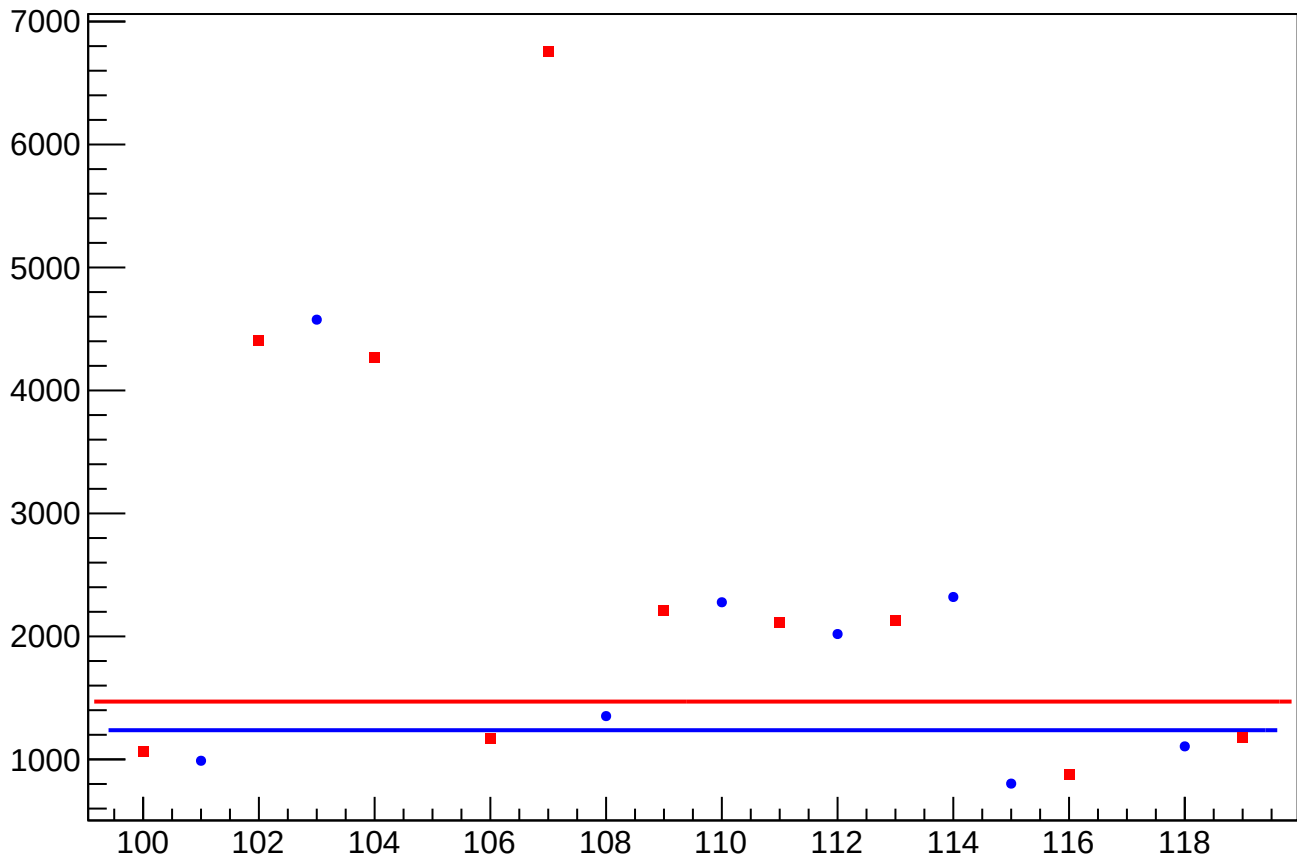
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 201.849+/-559.959  $\chi^2/\text{NDF}$ : 20.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_dit\_correction\_rms vs Slug



Right In: 1237.299+/-0.531  $\chi^2/\text{NDF}$ : 1182195.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1470.104+/-0.594  $\chi^2/\text{NDF}$ : 1951301.7/9

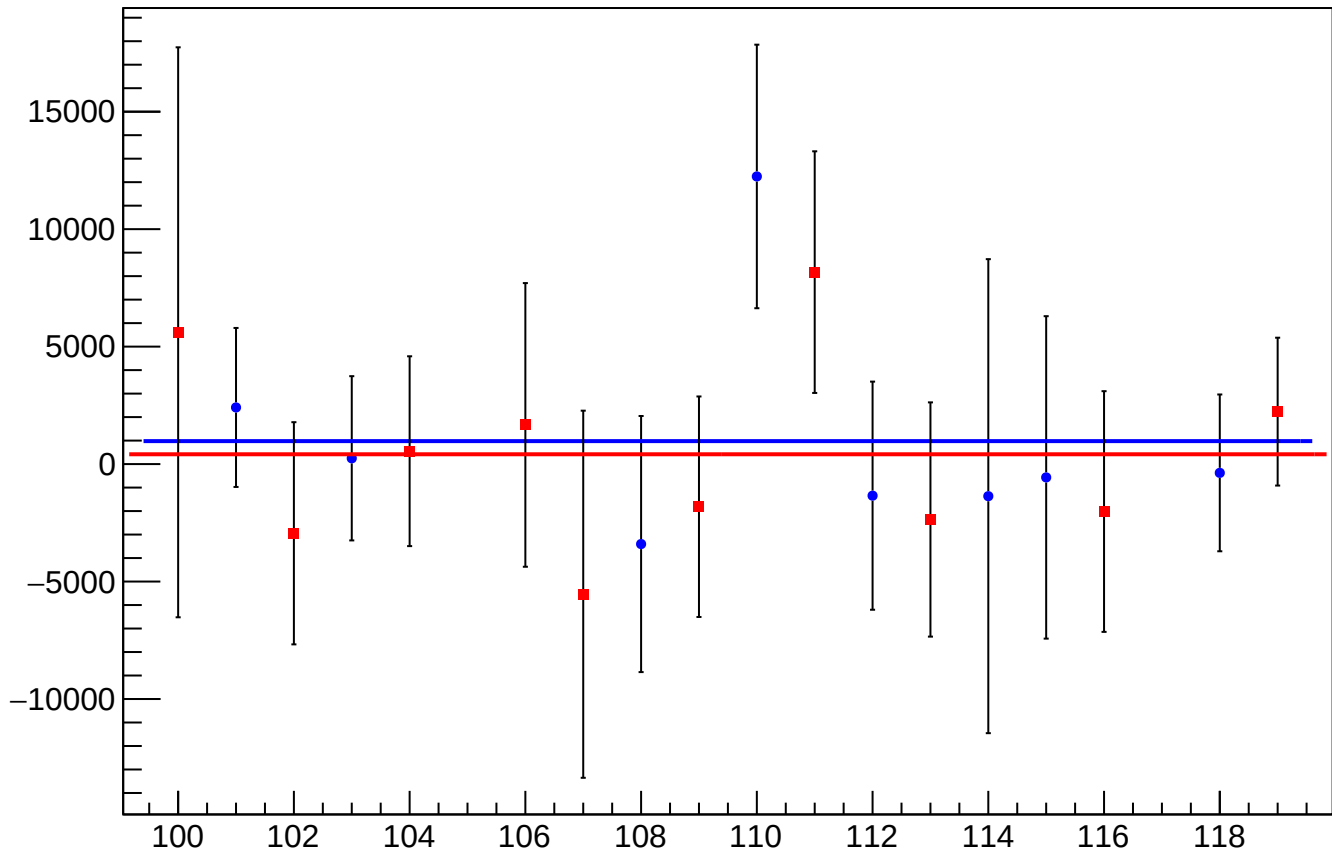
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1340.875+/-0.396  $\chi^2/\text{NDF}$ : 3218873.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl1\_mean vs Slug



Right In: 977.751+/-1585.353  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 417.730+/-1544.654  $\chi^2/\text{NDF}$ : 4.7/9

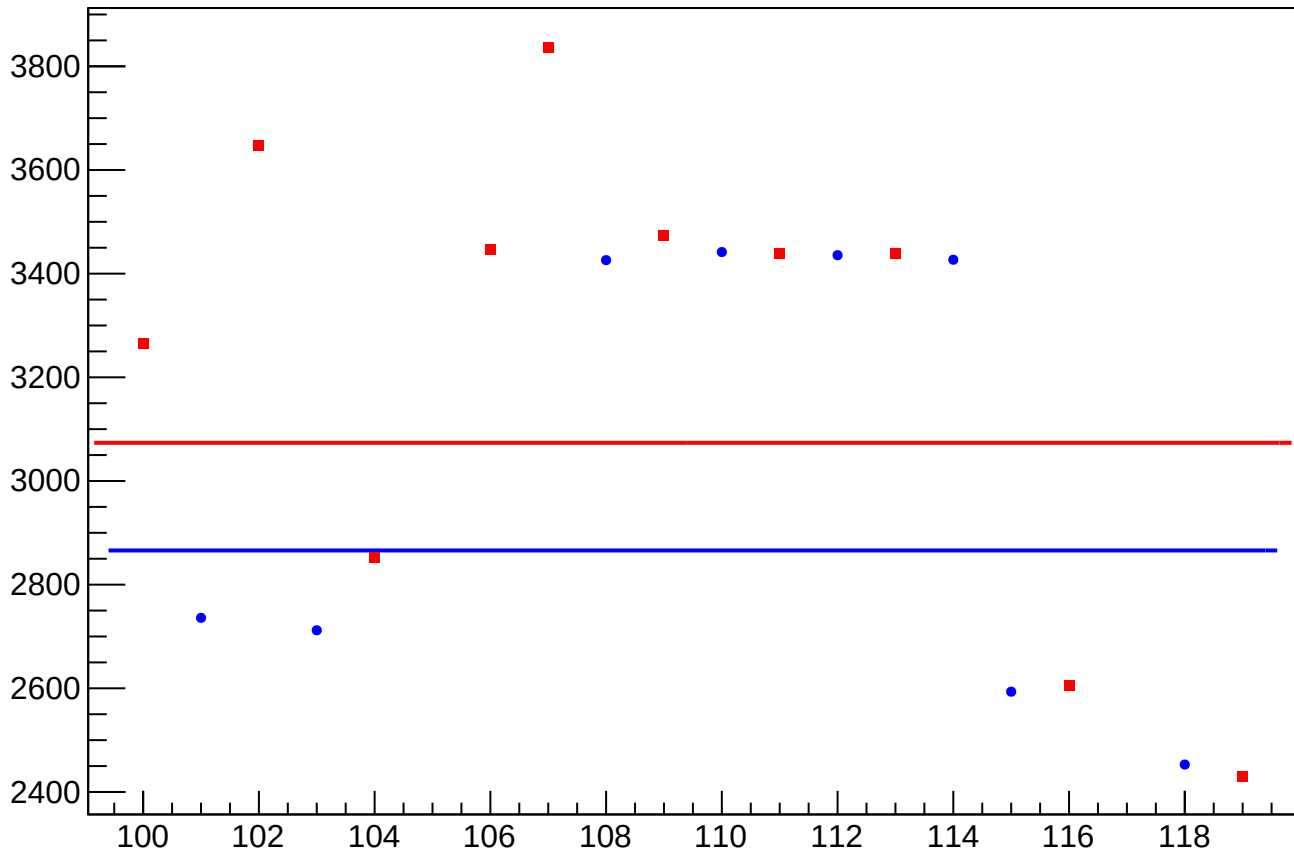
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 690.460+/-1106.344  $\chi^2/\text{NDF}$ : 10.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl1\_rms vs Slug



Right In: 2865.961+/-1.121  $\chi^2/\text{NDF}$ : 116532.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3073.639+/-1.092  $\chi^2/\text{NDF}$ : 198585.8/9

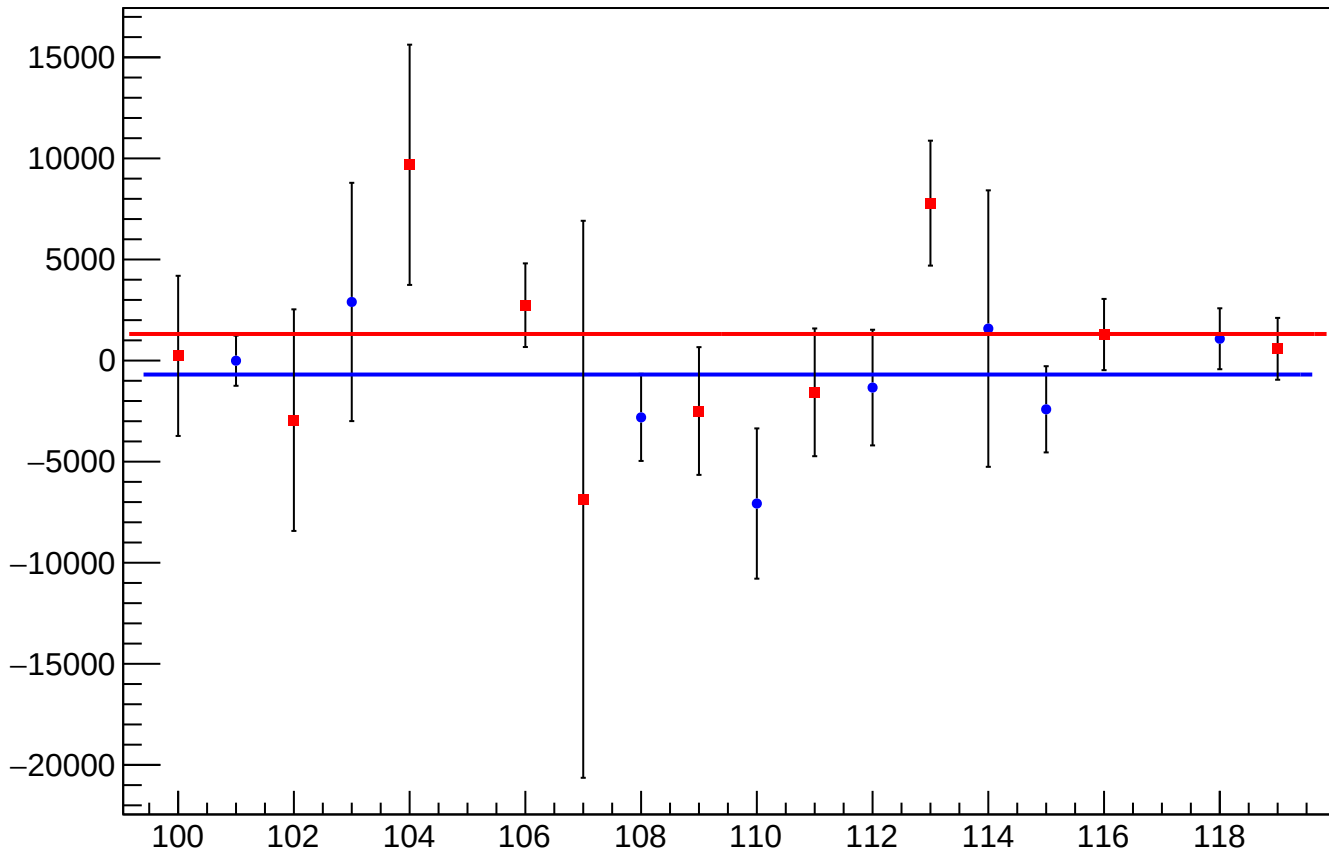
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2972.500+/-0.782  $\chi^2/\text{NDF}$ : 332724.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_dit\_correction\_mean vs Slug



Right In: -690.663+/-751.574  $\chi^2/\text{NDF}$ : 6.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1315.406+/-839.502  $\chi^2/\text{NDF}$ : 10.4/9

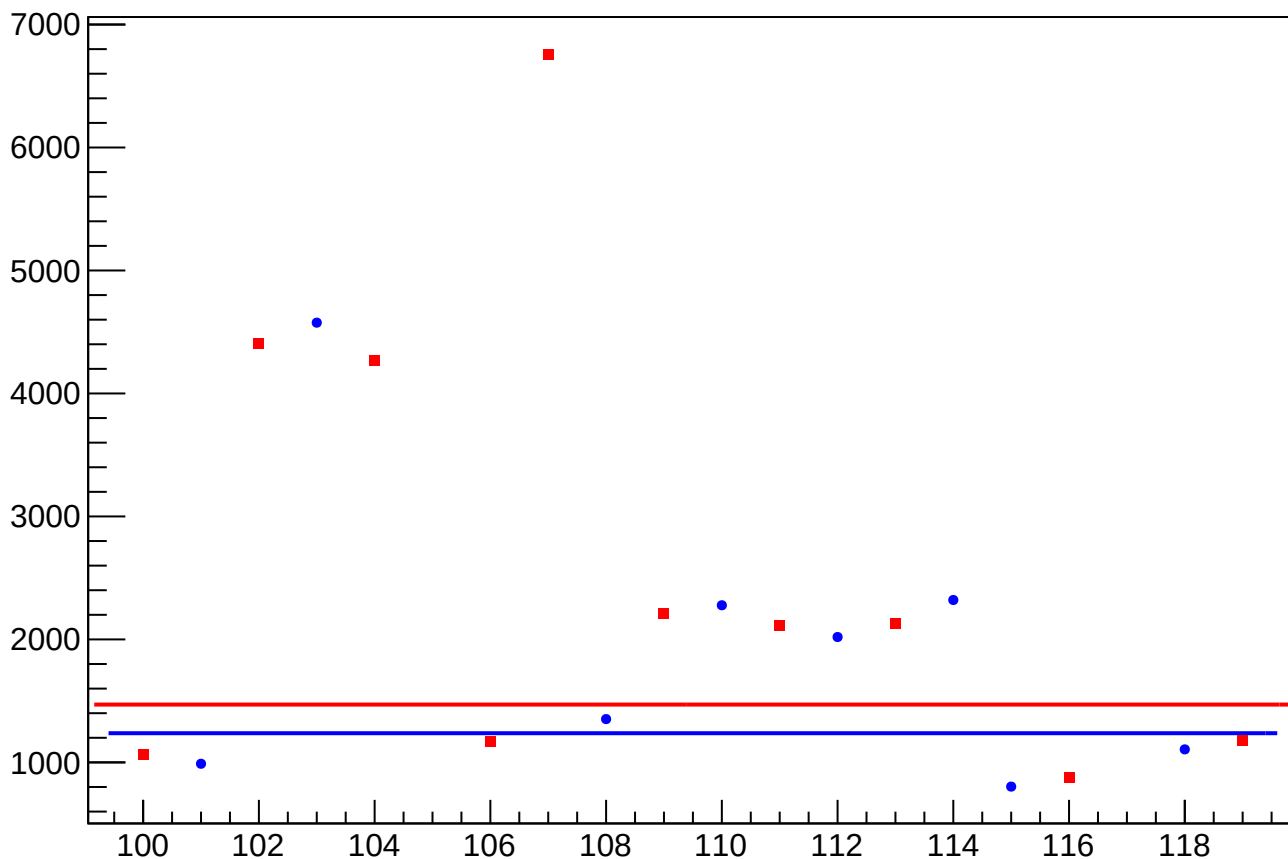
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 201.846+/-559.958  $\chi^2/\text{NDF}$ : 20.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_dit\_correction\_rms vs Slug



Right In: 1237.297+/-0.531  $\chi^2/\text{NDF}$ : 1182197.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1470.100+/-0.594  $\chi^2/\text{NDF}$ : 1951308.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

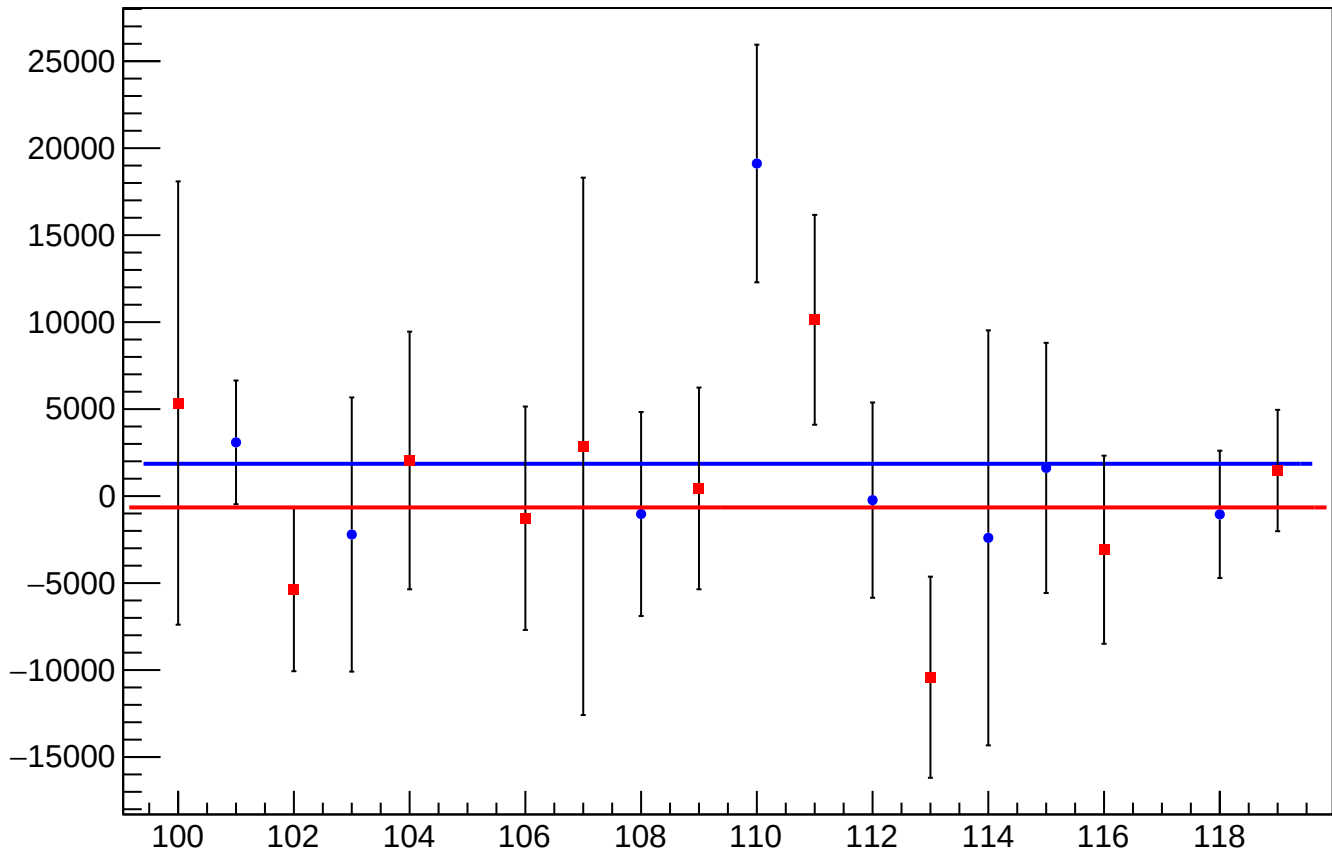
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1340.872+/-0.396  $\chi^2/\text{NDF}$ : 3218881.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl1\_mean vs Slug



Right In: 1857.428+/-1895.138  $\chi^2/\text{NDF}$ : 7.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -651.908+/-1820.459  $\chi^2/\text{NDF}$ : 8.1/9

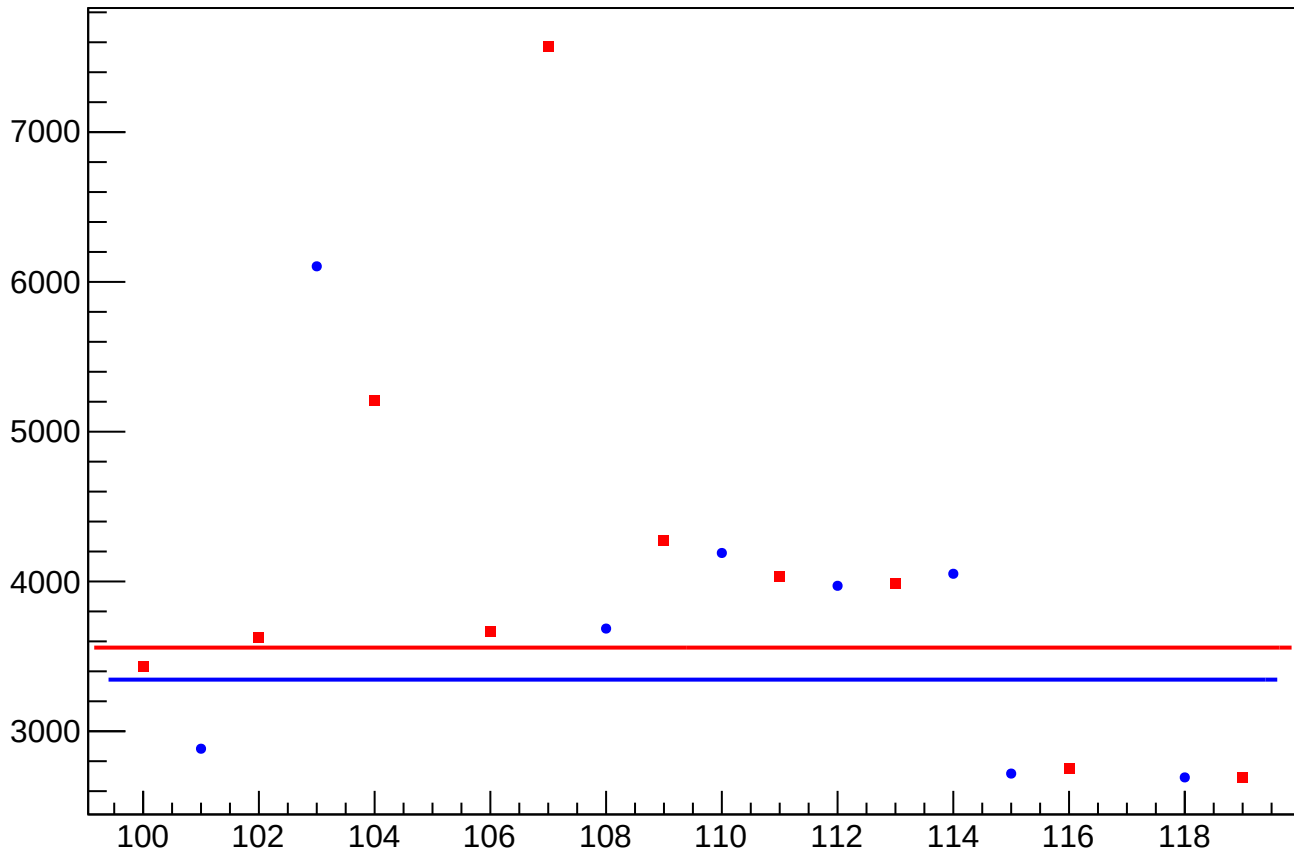
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 552.346+/-1312.866  $\chi^2/\text{NDF}$ : 16.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_rms vs Slug



Right In: 3344.610+/-1.340  $\chi^2/\text{NDF}$ : 427042.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3558.470+/-1.287  $\chi^2/\text{NDF}$ : 457889.8/9

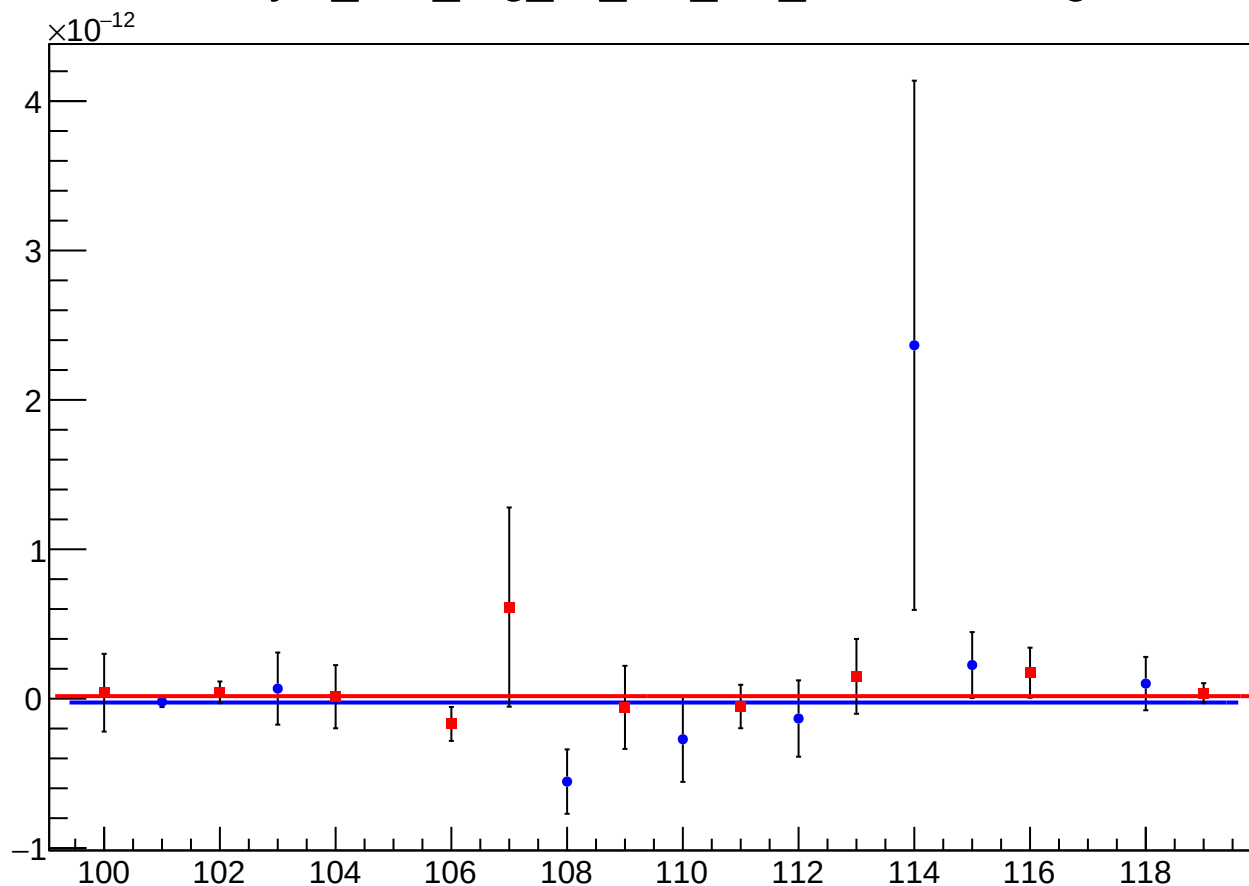
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3455.836+/-0.928  $\chi^2/\text{NDF}$ : 898178.7/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 10.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.2/9

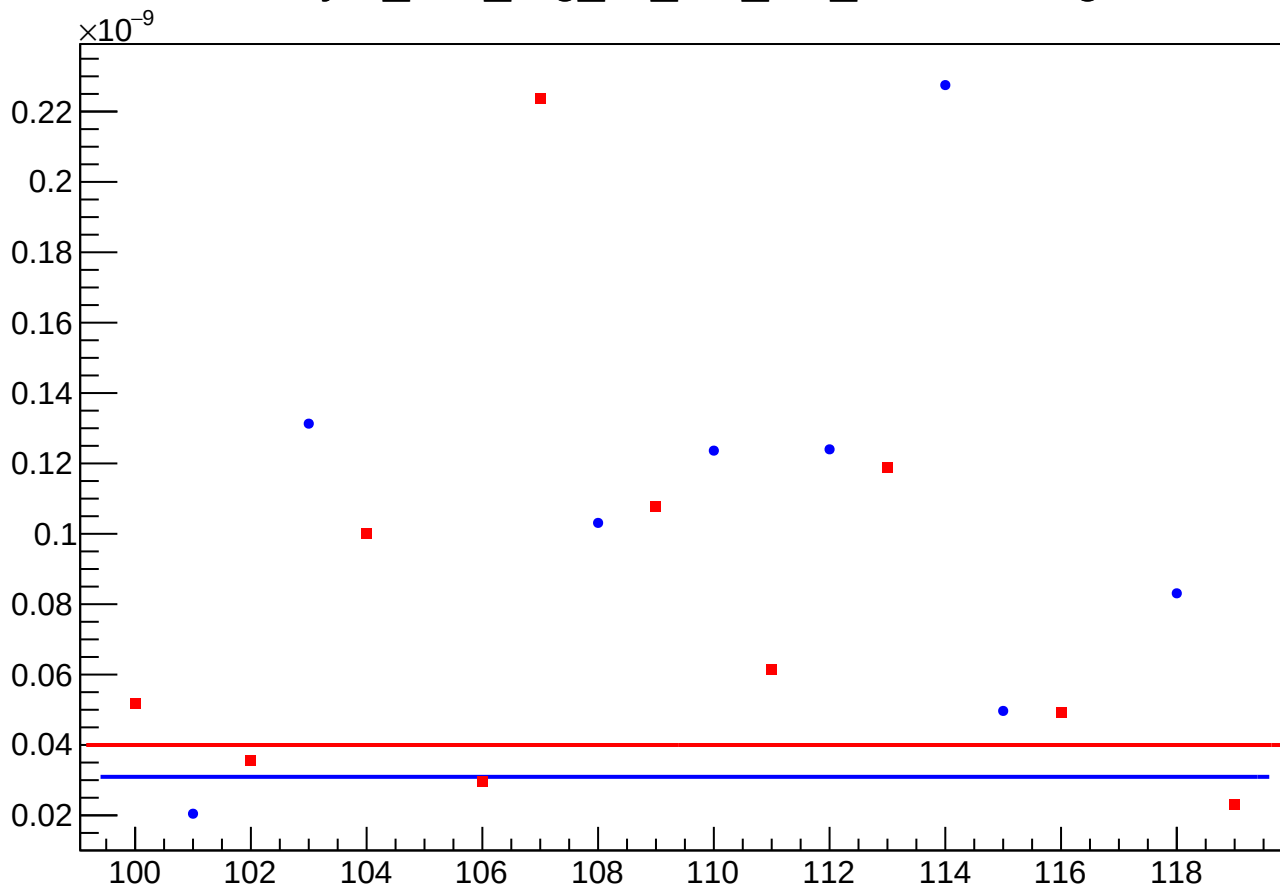
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1421568.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 836138.1/9

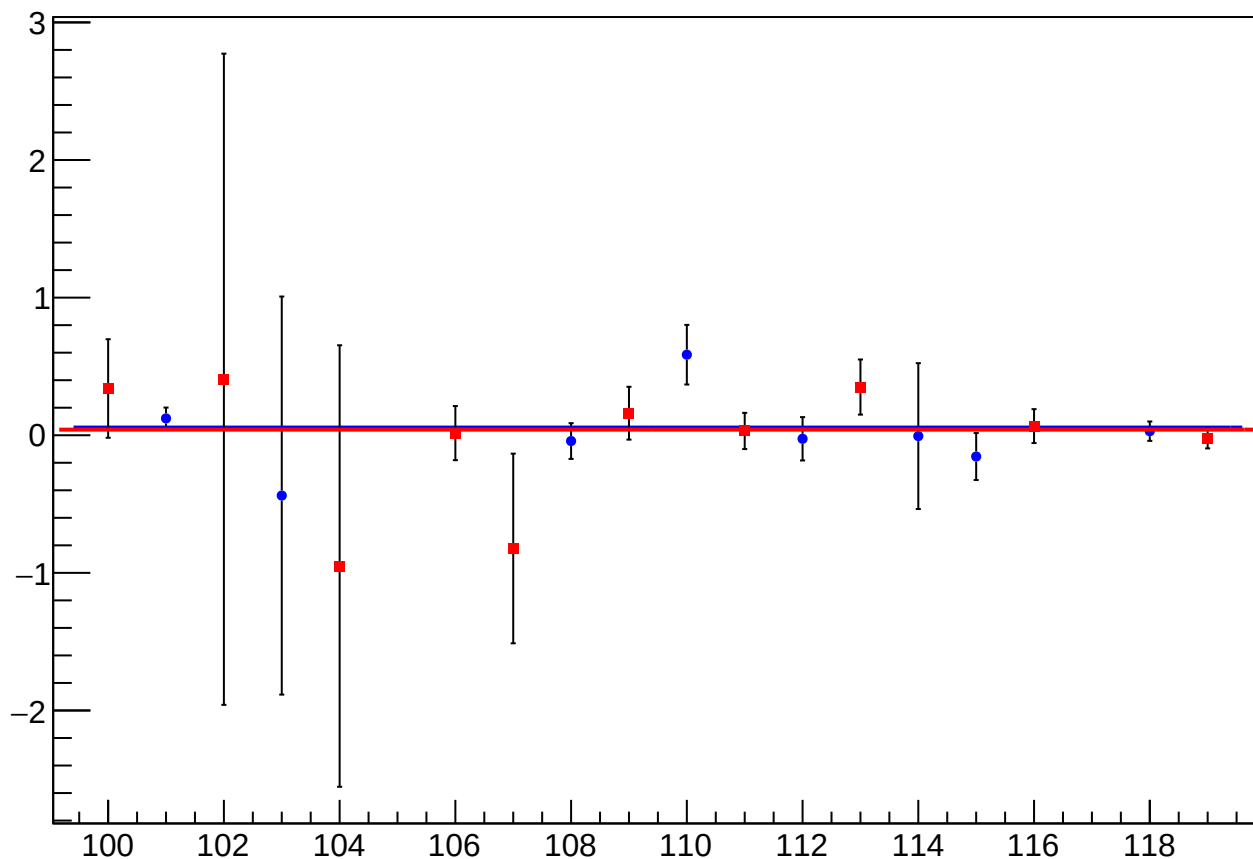
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2318377.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.056 $\pm$ 0.044  $\chi^2$ /NDF: 9.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.041 $\pm$ 0.050  $\chi^2$ /NDF: 6.2/9

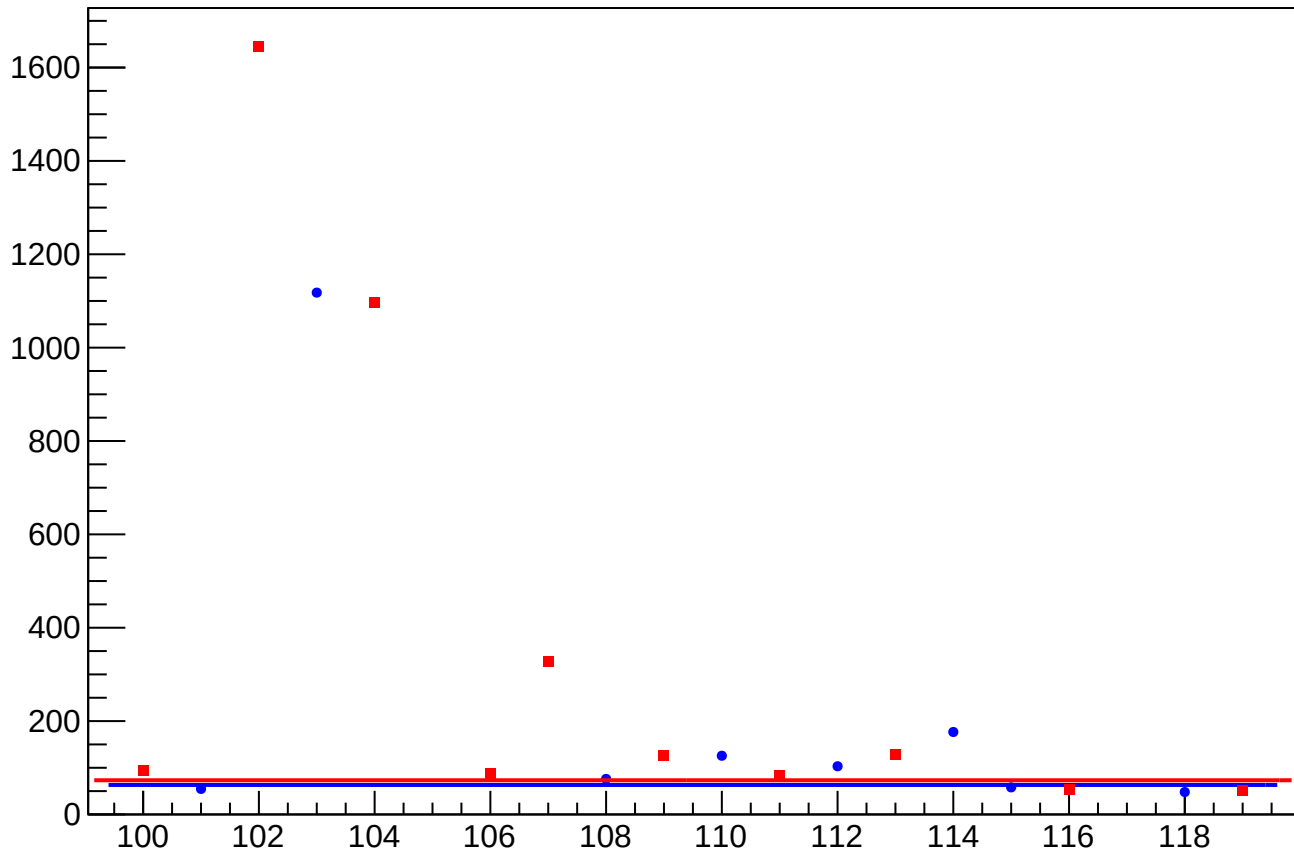
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.049 $\pm$ 0.033  $\chi^2$ /NDF: 15.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 63.226+/-0.031  $\chi^2/\text{NDF}$ : 1588922.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73.247+/-0.035  $\chi^2/\text{NDF}$ : 2518686.3/9

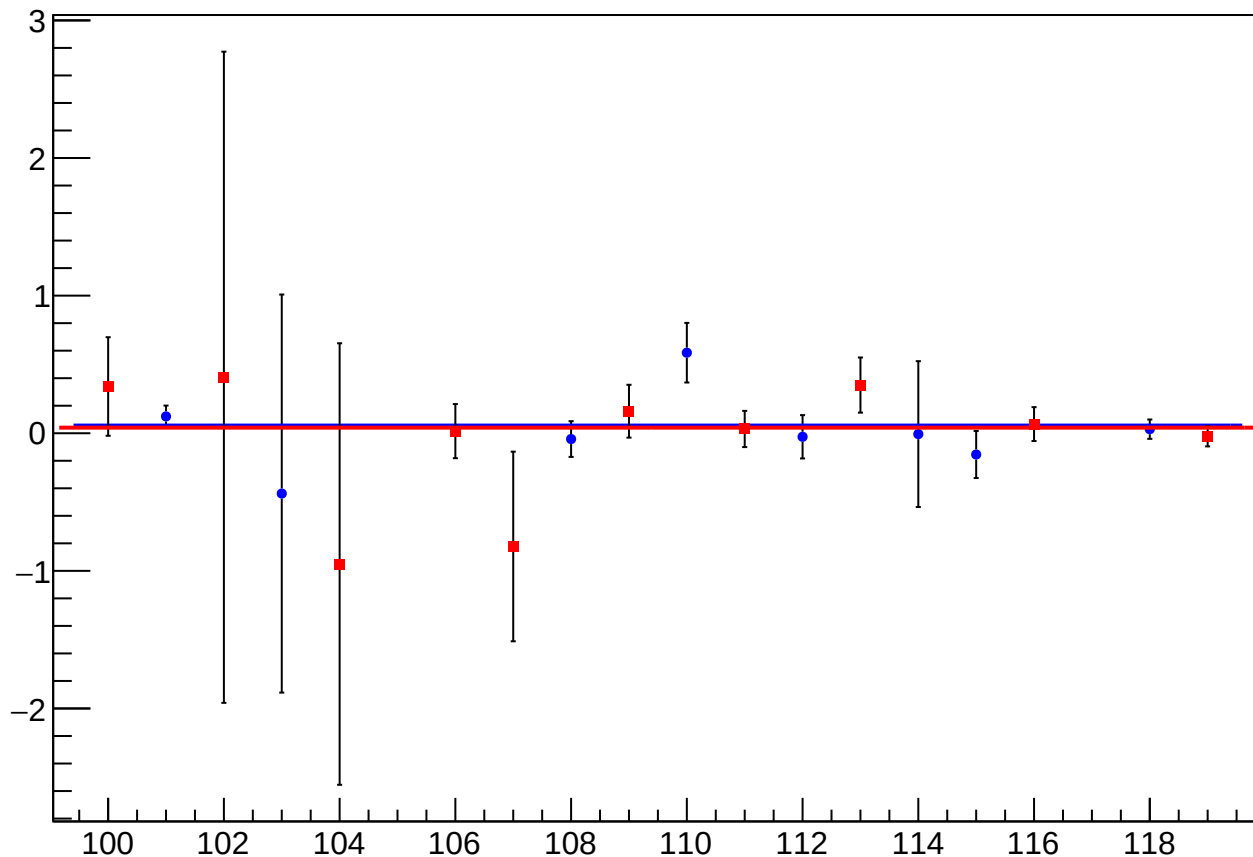
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.554+/-0.023  $\chi^2/\text{NDF}$ : 4152937.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.056 $\pm$ 0.044  $\chi^2$ /NDF: 9.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.041 $\pm$ 0.050  $\chi^2$ /NDF: 6.2/9

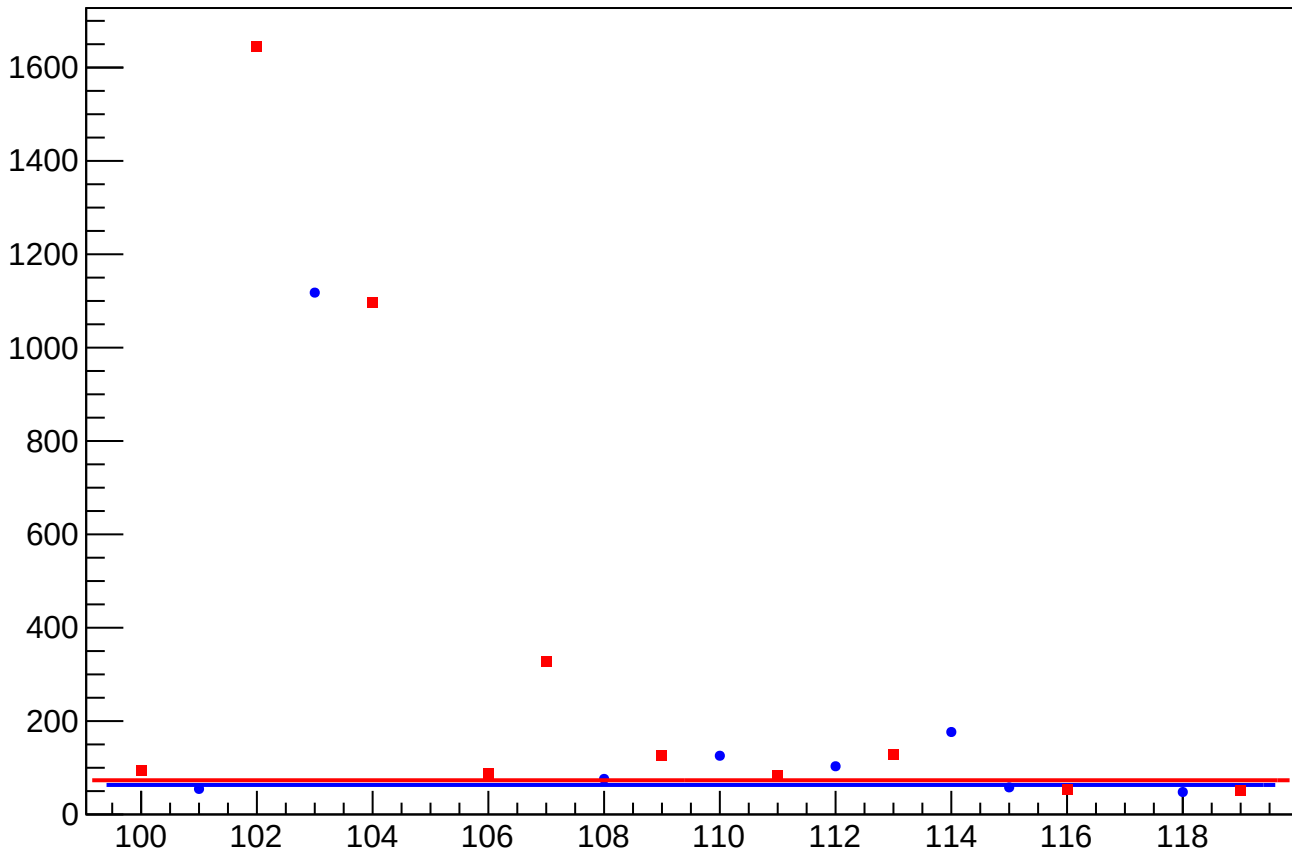
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.049 $\pm$ 0.033  $\chi^2$ /NDF: 15.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 63.226+/-0.031  $\chi^2/\text{NDF}$ : 1588922.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73.247+/-0.035  $\chi^2/\text{NDF}$ : 2518686.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

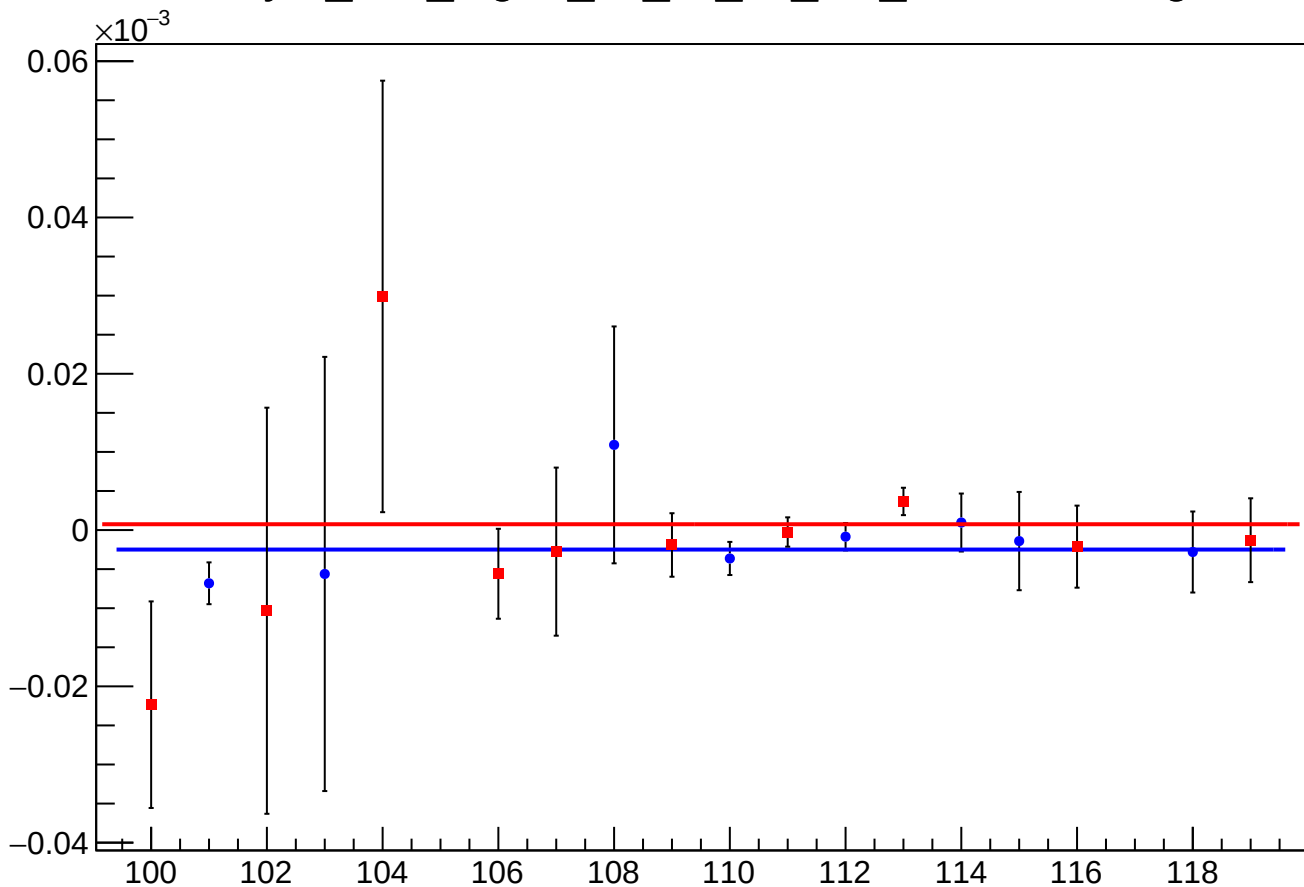
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.554+/-0.023  $\chi^2/\text{NDF}$ : 4152937.3/17

- sign 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 +/- 0.000  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 9.6/9

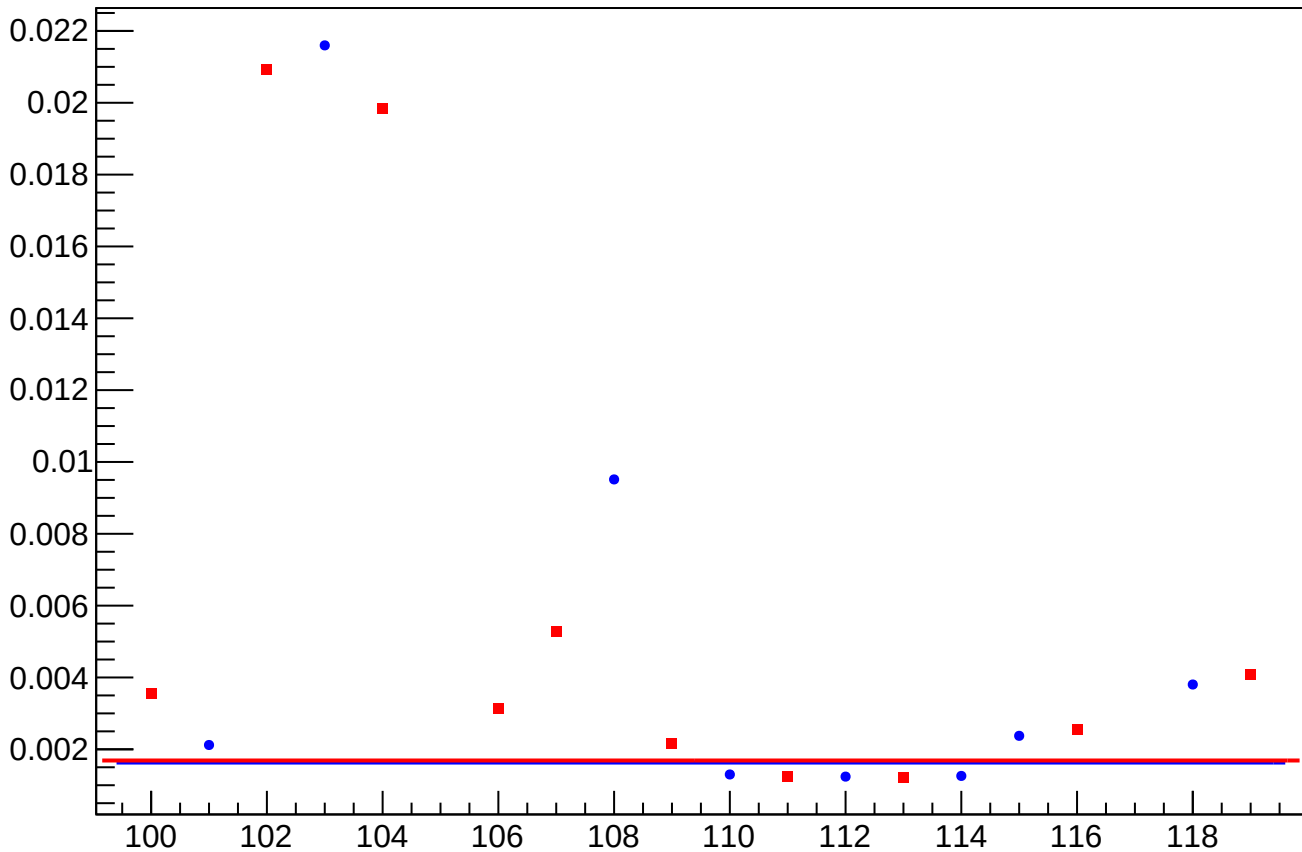
Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 19.3/17

- sign 0.000 +/- 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  $\chi^2/\text{NDF}$ : 2188951.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3082715.9/9

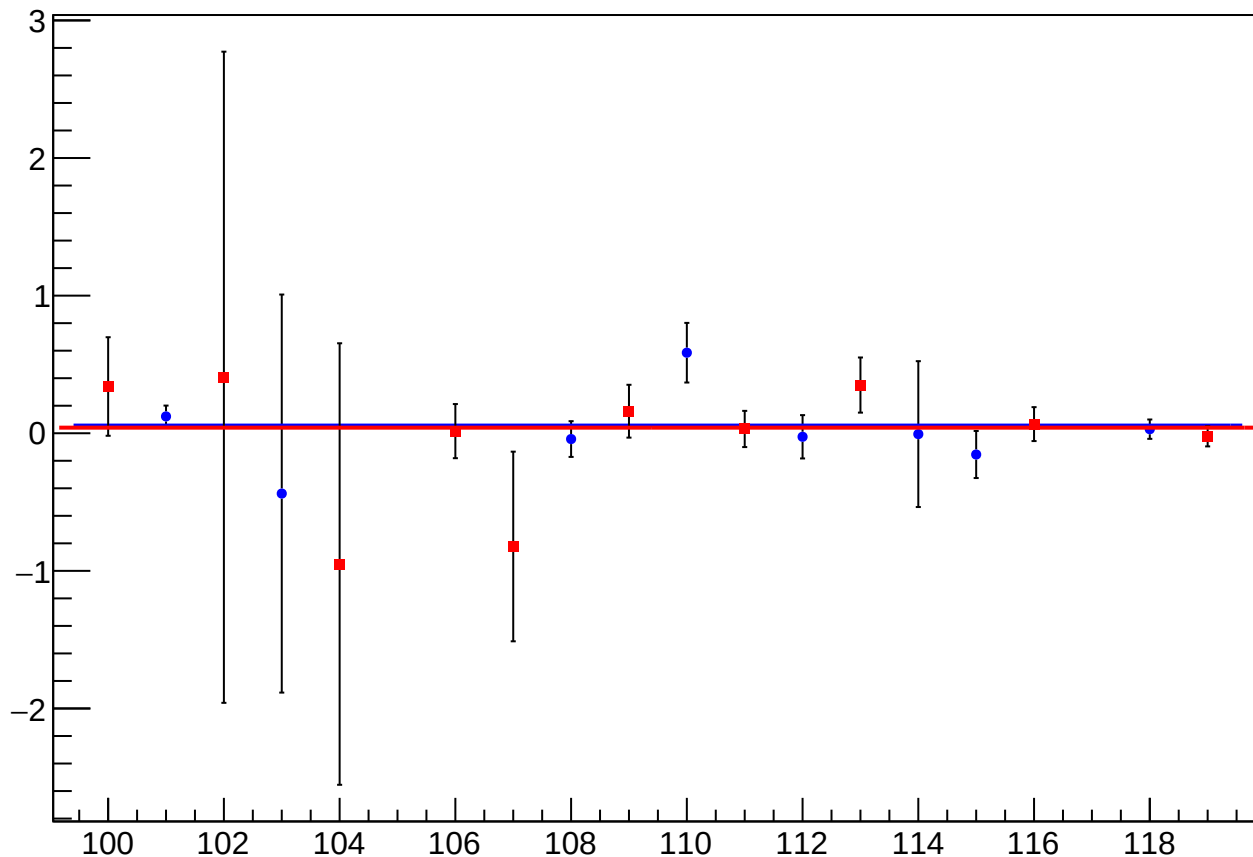
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 5274322.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.056 $\pm$ 0.044  $\chi^2$ /NDF: 9.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.041 $\pm$ 0.050  $\chi^2$ /NDF: 6.2/9

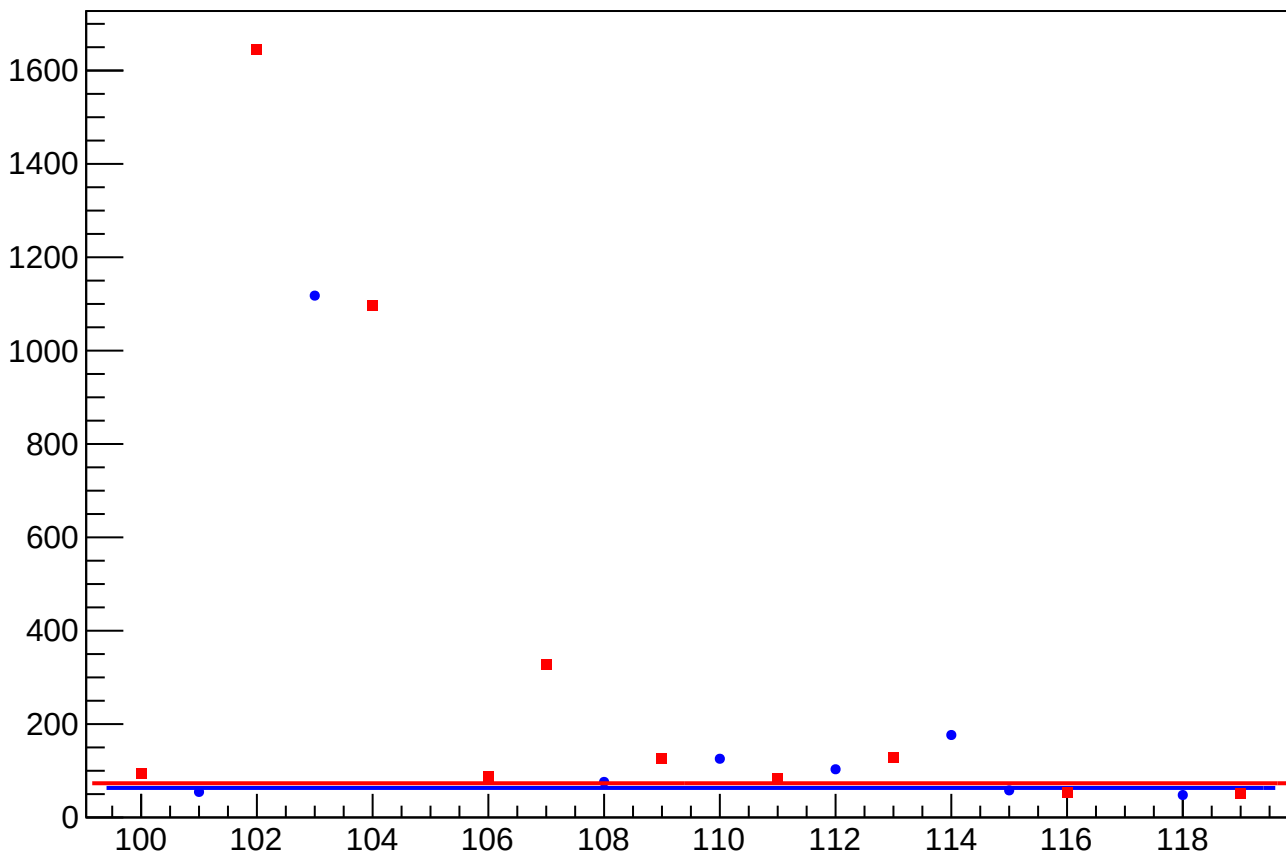
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.049 $\pm$ 0.033  $\chi^2$ /NDF: 15.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 63.226+/-0.031  $\chi^2/\text{NDF}$ : 1588951.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73.245+/-0.035  $\chi^2/\text{NDF}$ : 2518710.2/9

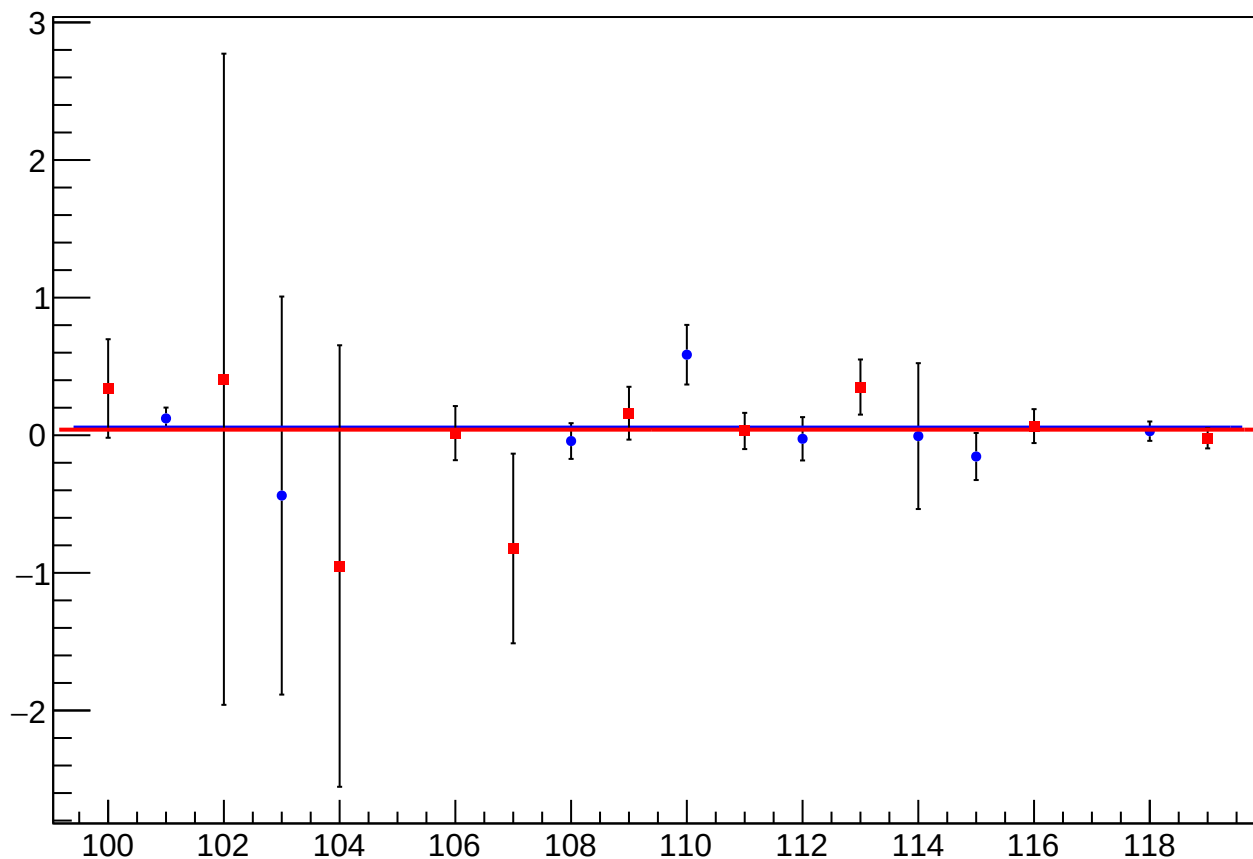
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.554+/-0.023  $\chi^2/\text{NDF}$ : 4152983.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.056 $\pm$ 0.044  $\chi^2$ /NDF: 9.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.041 $\pm$ 0.050  $\chi^2$ /NDF: 6.2/9

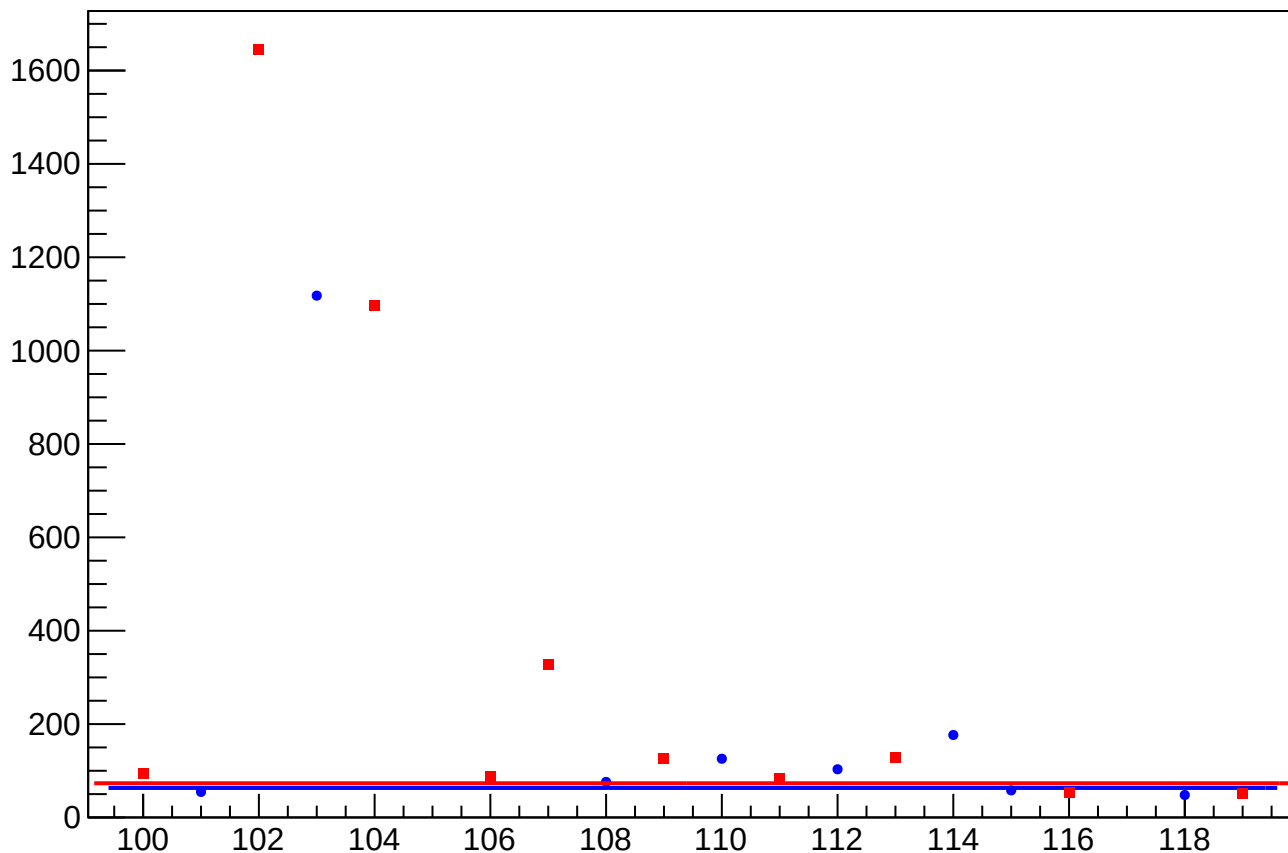
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.049 $\pm$ 0.033  $\chi^2$ /NDF: 15.6/17

- 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: 63.226+/-0.031  $\chi^2/\text{NDF}$ : 1588951.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73.245+/-0.035  $\chi^2/\text{NDF}$ : 2518710.2/9

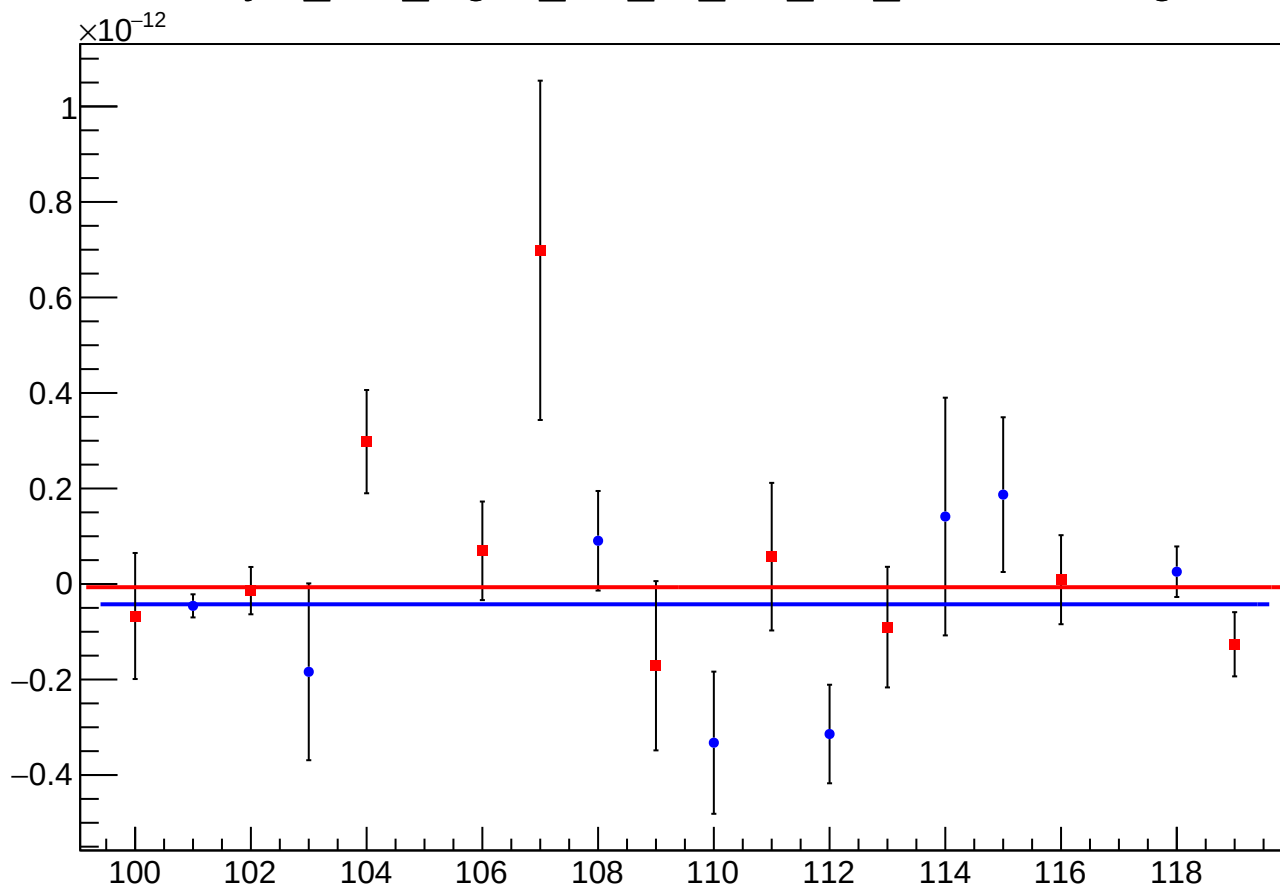
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.554+/-0.023  $\chi^2/\text{NDF}$ : 4152983.2/17

- 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  $\chi^2/\text{NDF}$ : 17.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.3/9

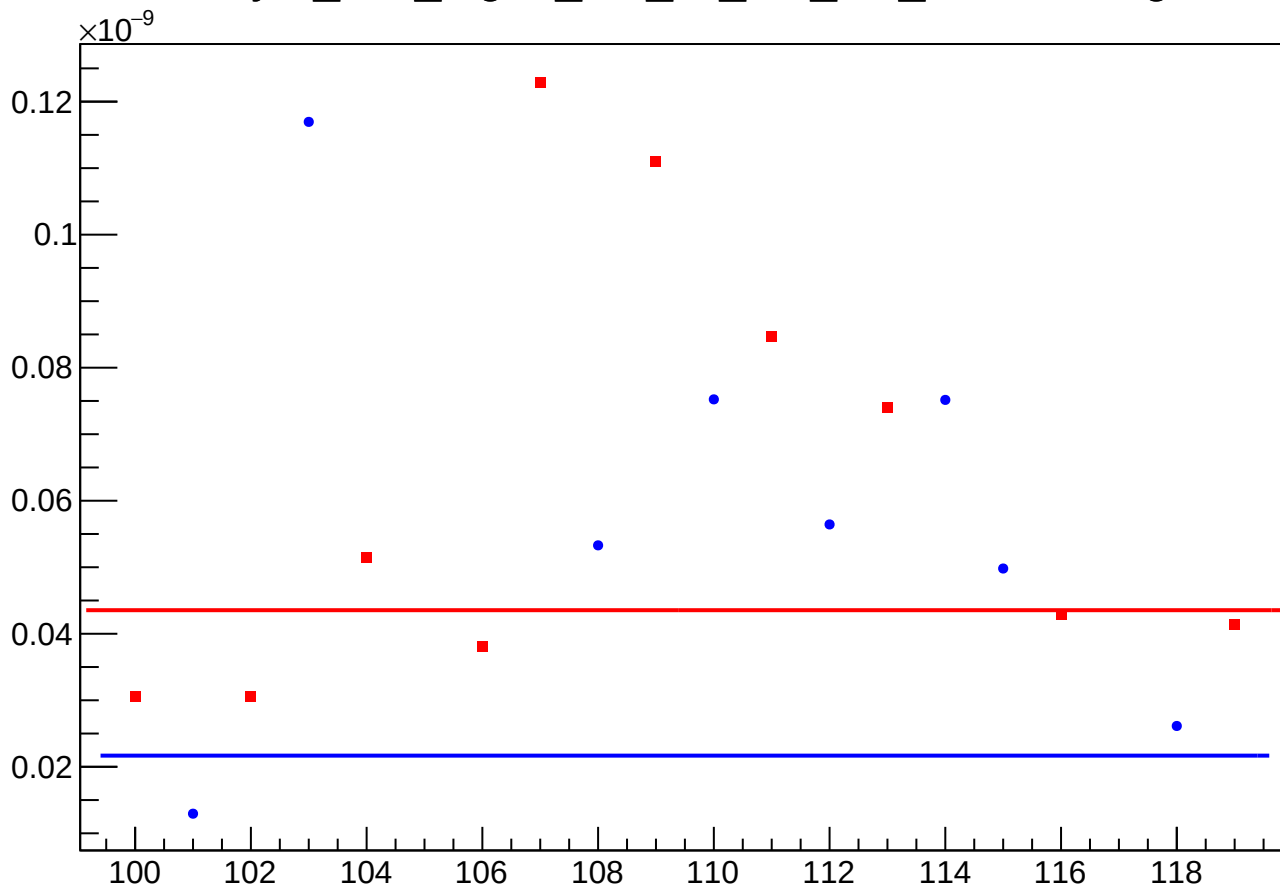
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 35.5/17

- 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  $\chi^2/\text{NDF}$ : 1626595.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 822590.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

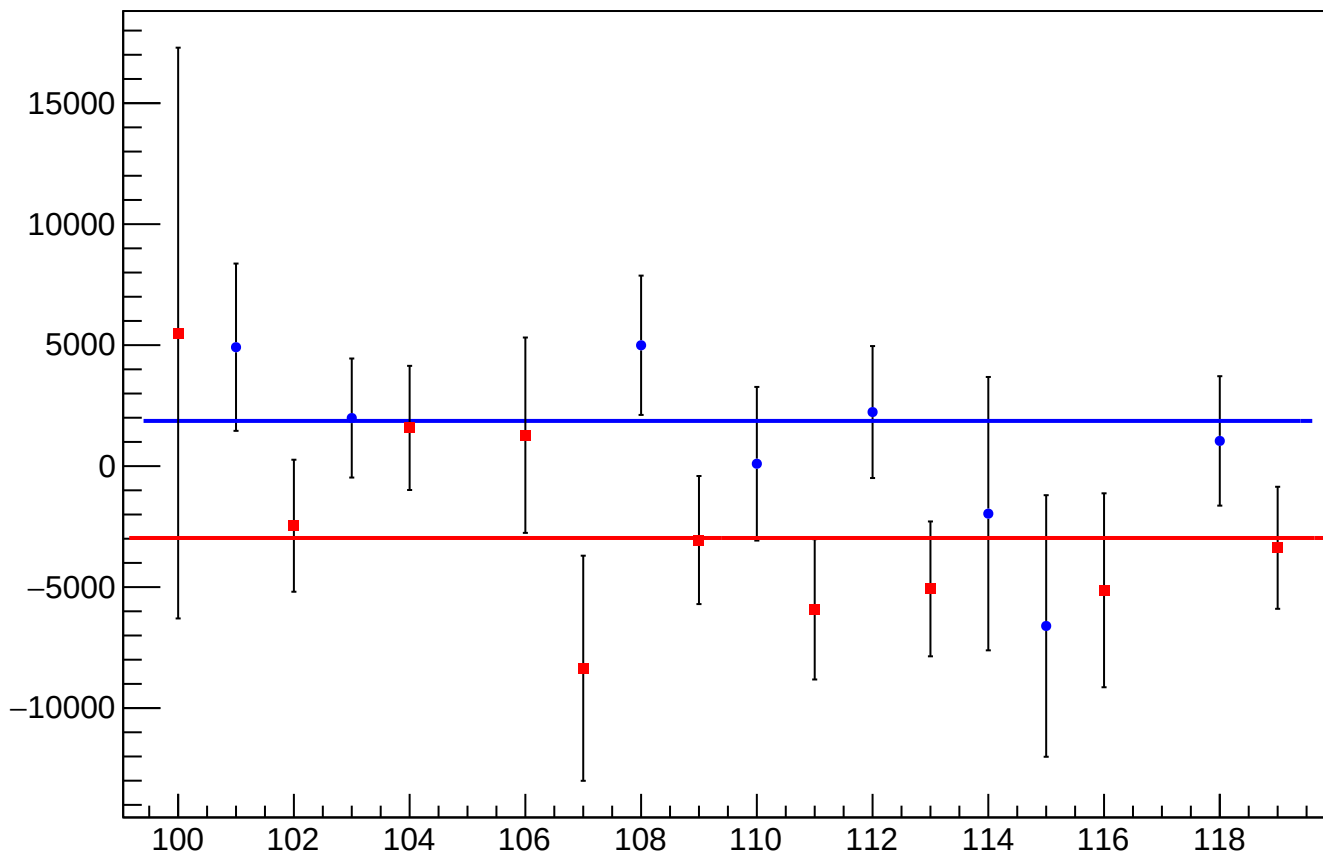
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3179462.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl2\_mean vs Slug



Right In: 1868.097+/-1112.026  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2969.959+/-994.504  $\chi^2/\text{NDF}$ : 8.1/9

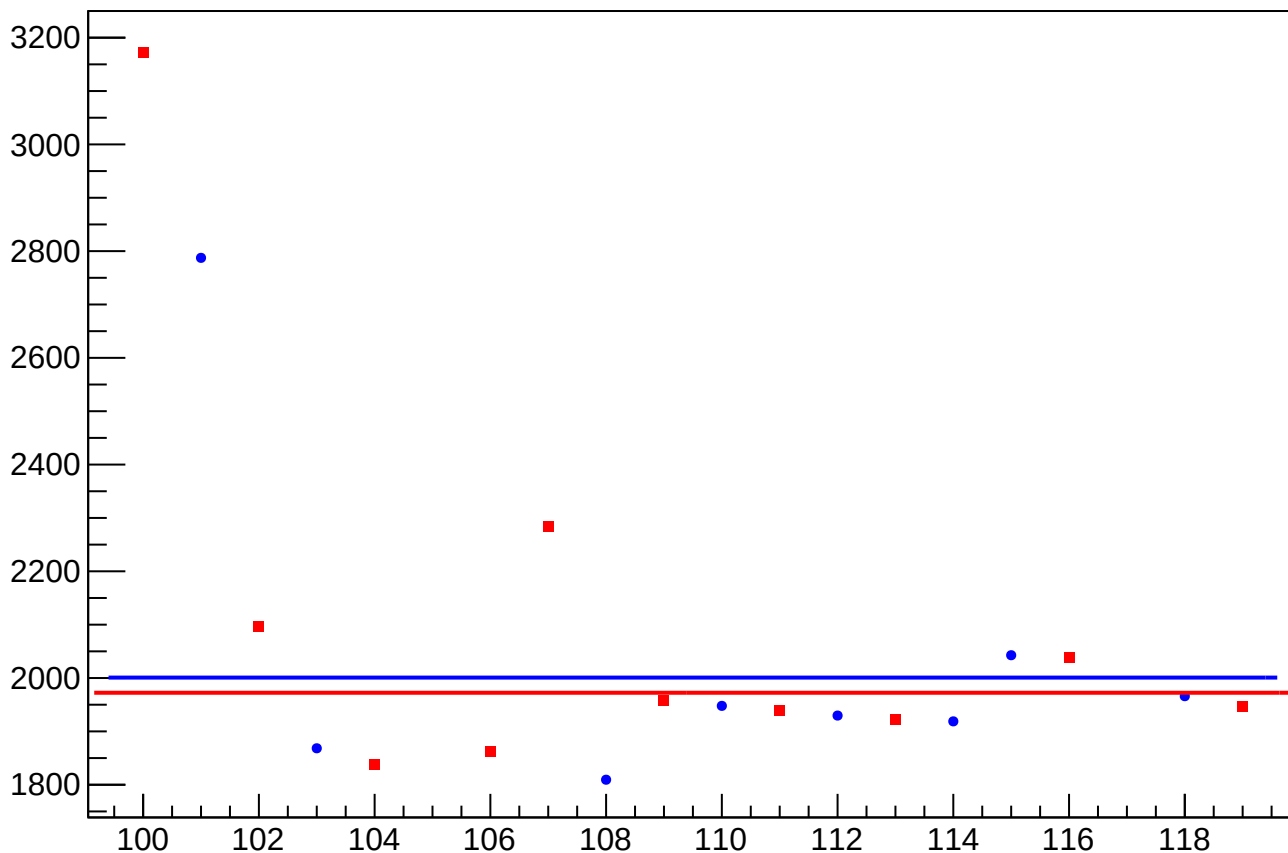
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -820.006+/-741.300  $\chi^2/\text{NDF}$ : 23.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl2\_rms vs Slug



Right In: 2000.827 $\pm$ 0.786  $\chi^2$ /NDF: 120997.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1972.421 $\pm$ 0.703  $\chi^2$ /NDF: 42479.9/9

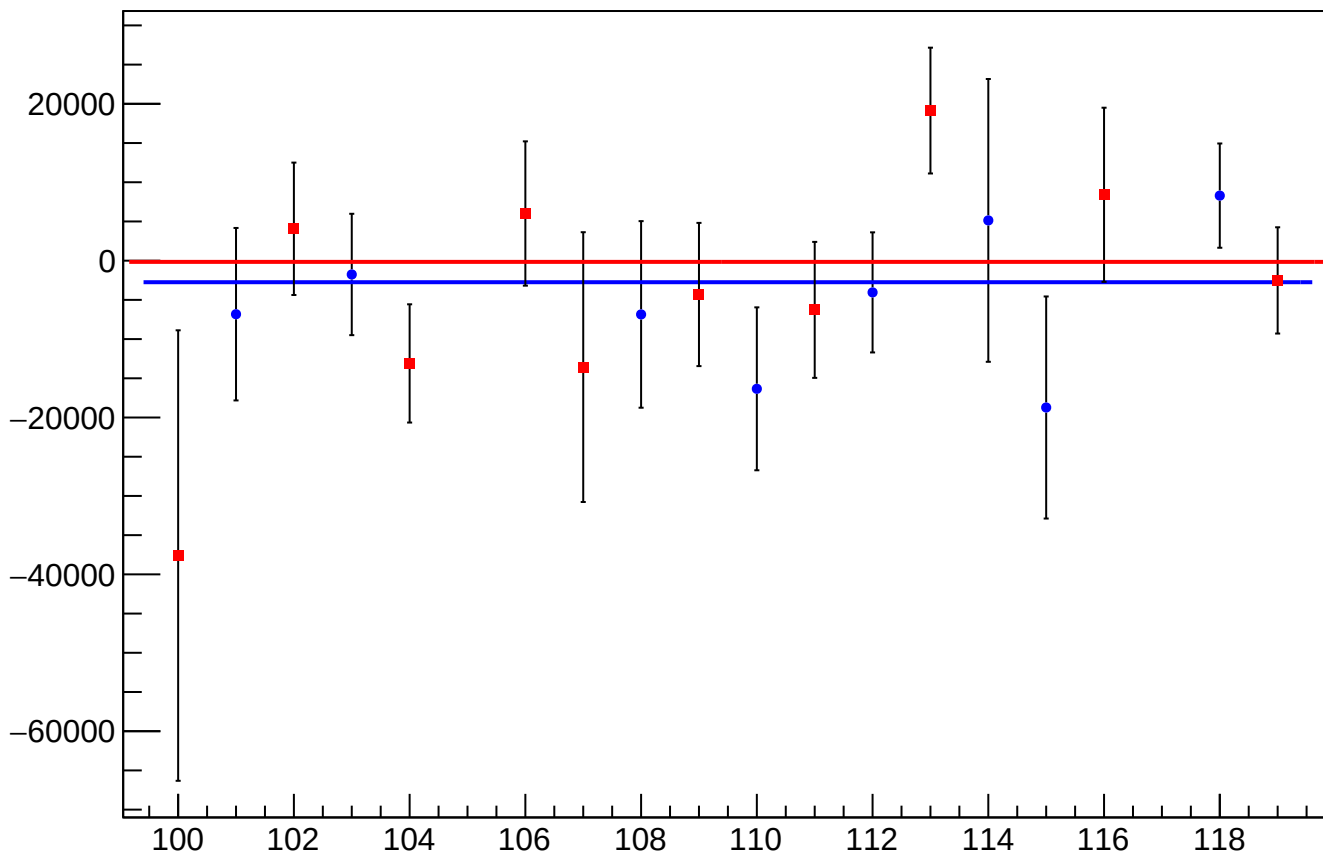
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1985.044 $\pm$ 0.524  $\chi^2$ /NDF: 164202.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_reg\_correction\_mean vs Slug



Right In: -2746.988+/-3351.018  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -154.373+/-2901.575  $\chi^2/\text{NDF}$ : 13.2/9

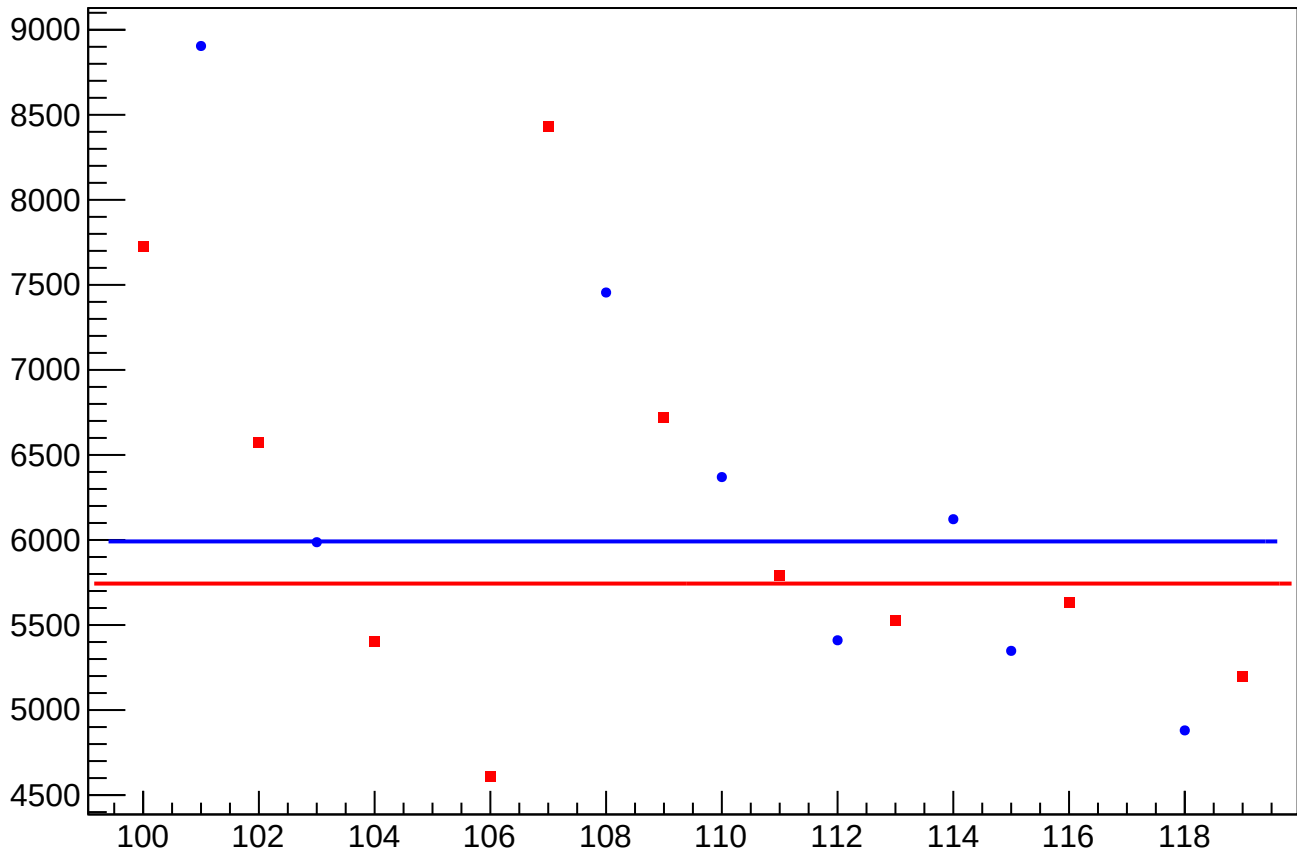
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1265.279+/-2193.544  $\chi^2/\text{NDF}$ : 19.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_reg\_correction\_rms vs Slug



Right In: 5991.539 $\pm$ 2.370  $\chi^2$ /NDF: 244955.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5743.668 $\pm$ 2.052  $\chi^2$ /NDF: 149916.9/9

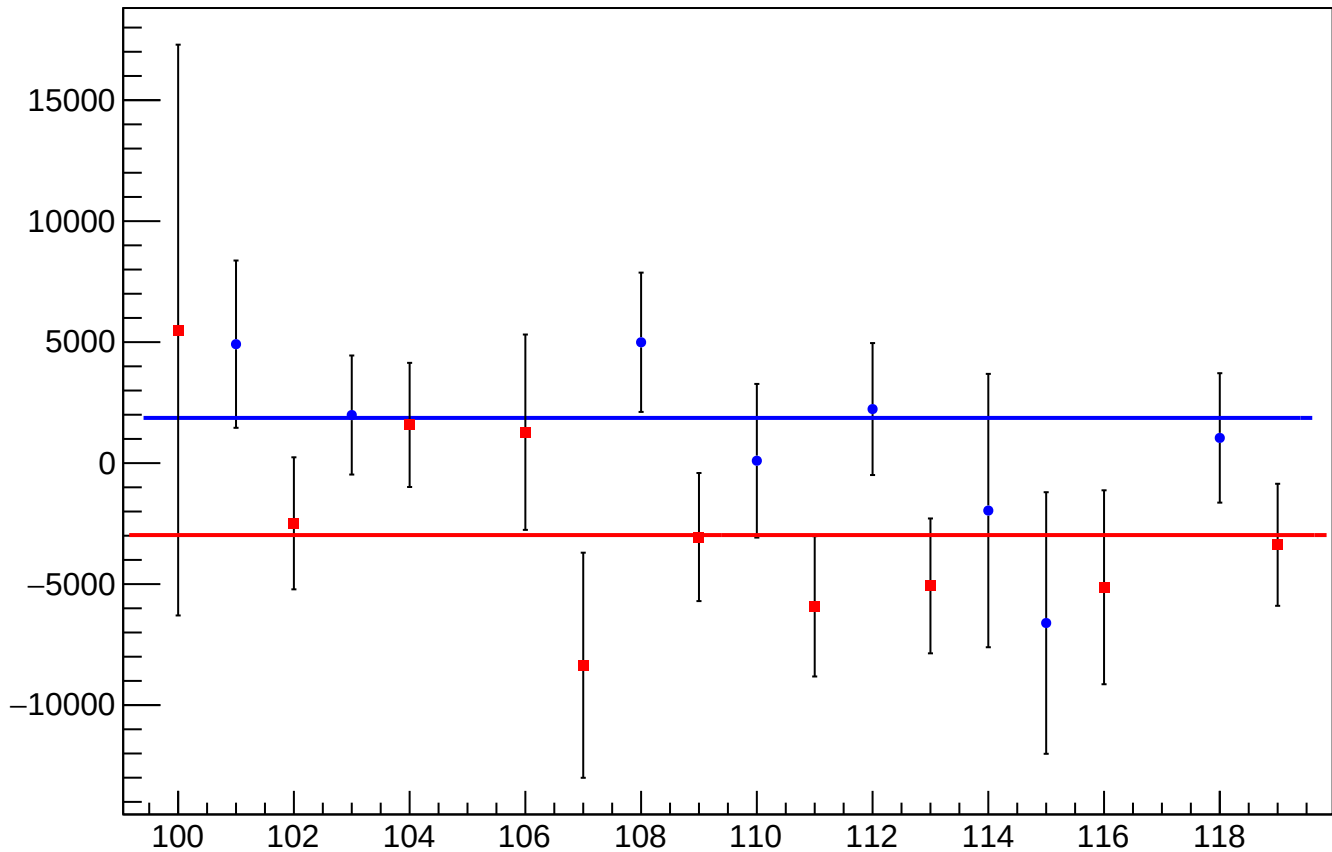
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5849.878 $\pm$ 1.551  $\chi^2$ /NDF: 401126.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atl2\_mean vs Slug



Right In: 1868.361+/-1112.026  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2973.172+/-994.521  $\chi^2/\text{NDF}$ : 8.1/9

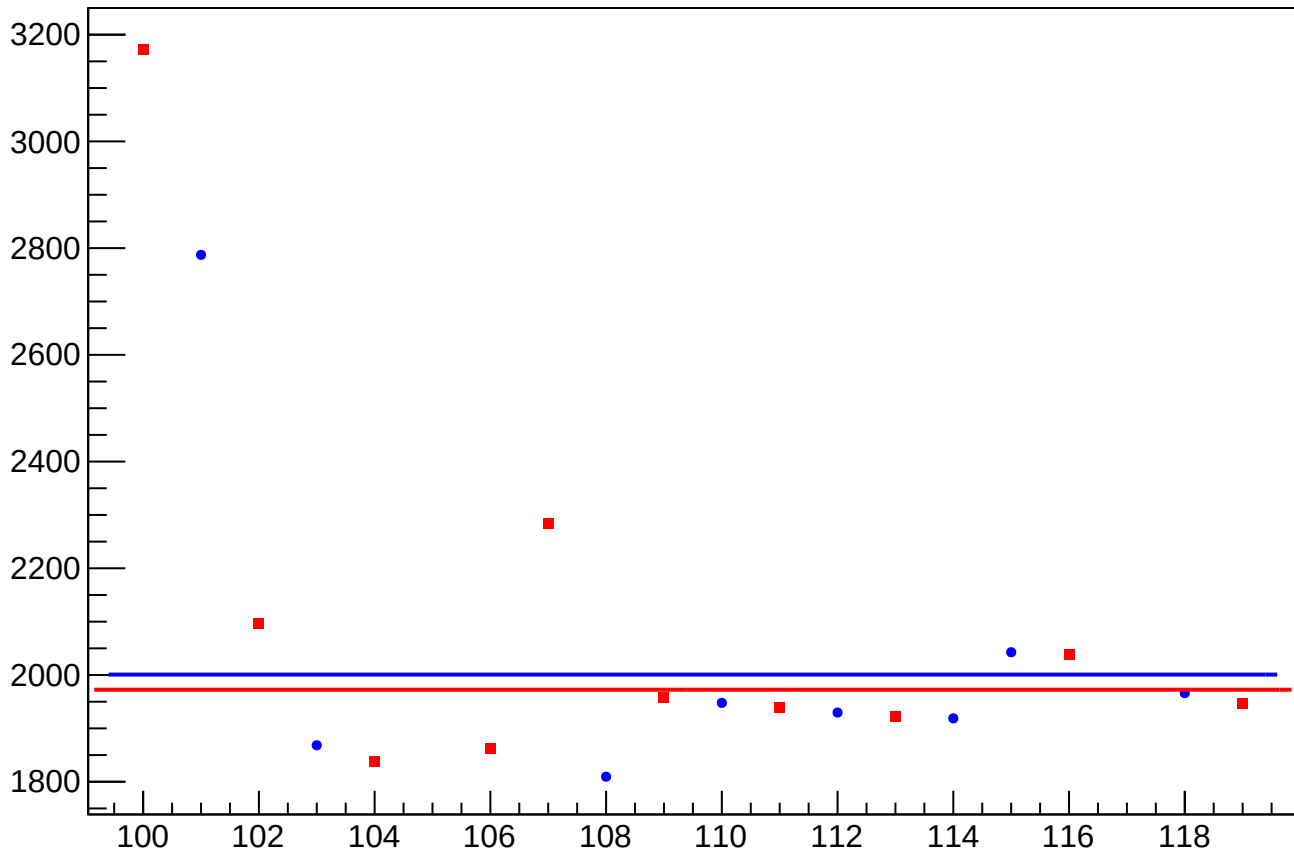
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -821.633+/-741.307  $\chi^2/\text{NDF}$ : 23.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl2\_rms vs Slug



Right In: 2000.827 $\pm$ 0.786  $\chi^2$ /NDF: 120997.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1972.457 $\pm$ 0.703  $\chi^2$ /NDF: 42498.8/9

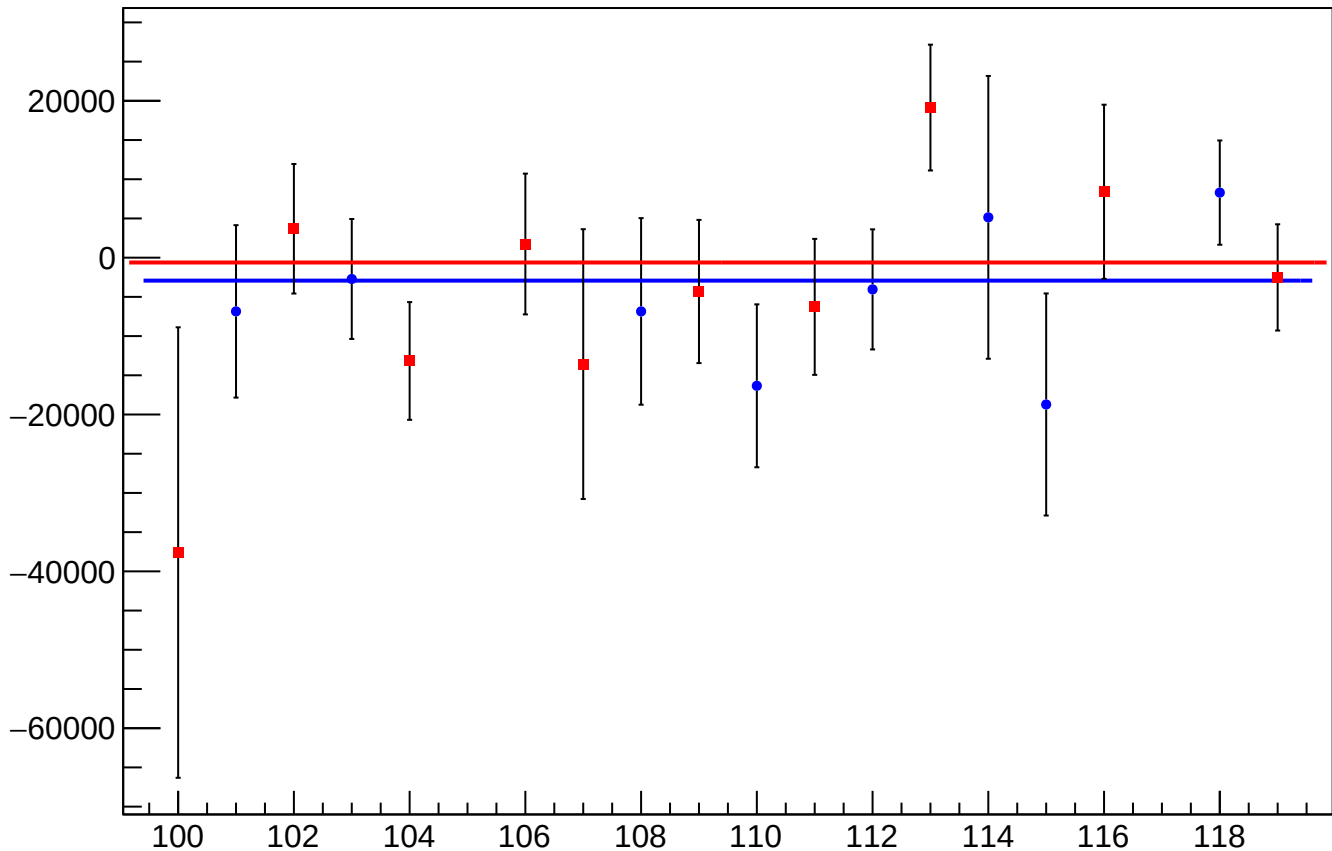
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1985.064 $\pm$ 0.524  $\chi^2$ /NDF: 164219.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_cor\_correction\_mean vs Slug



Right In: -2927.649+/-3343.547  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -616.501+/-2884.825  $\chi^2/\text{NDF}$ : 12.8/9

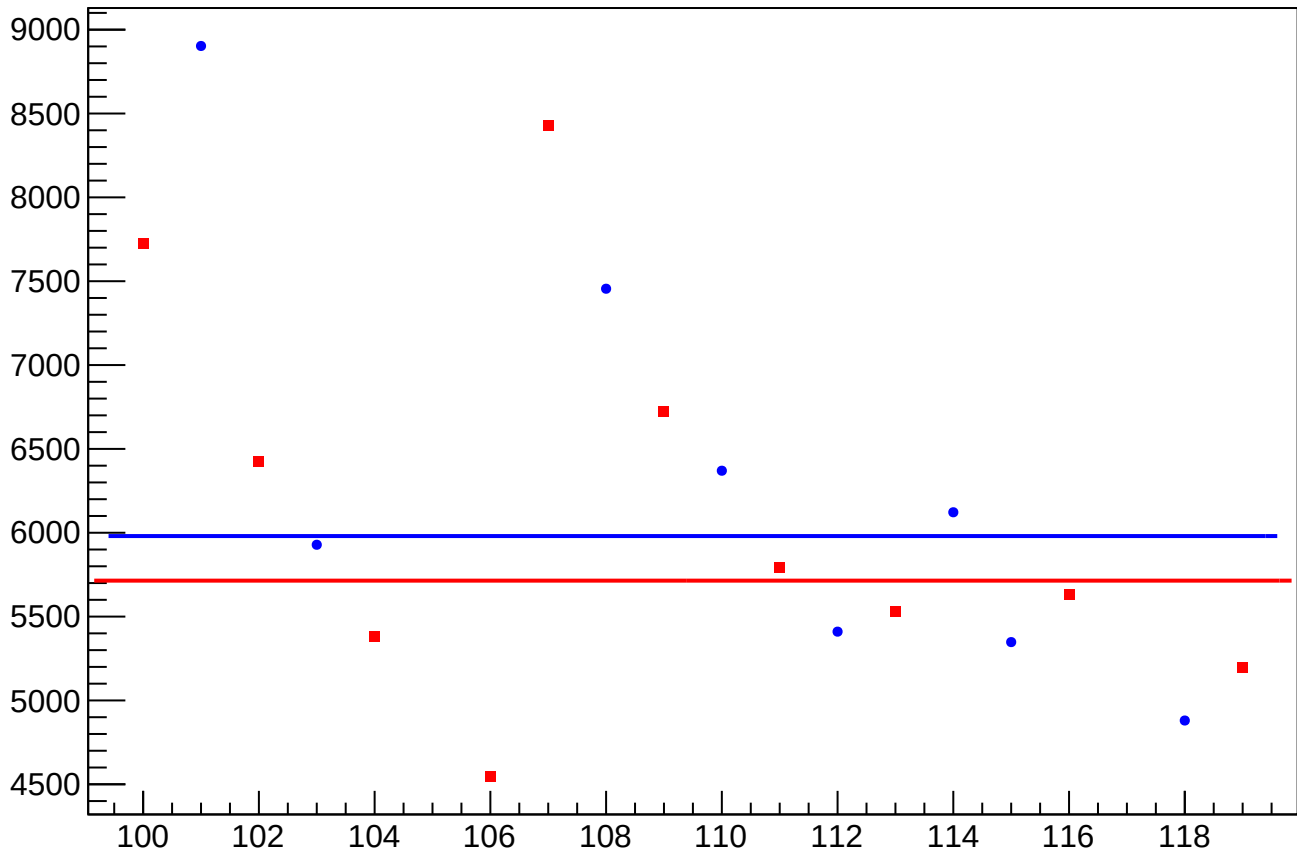
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1602.776+/-2184.201  $\chi^2/\text{NDF}$ : 19.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_cor\_correction\_rms vs Slug



Right In: 5980.249 $\pm$ 2.364  $\chi^2$ /NDF: 244942.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5714.445 $\pm$ 2.040  $\chi^2$ /NDF: 149765.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

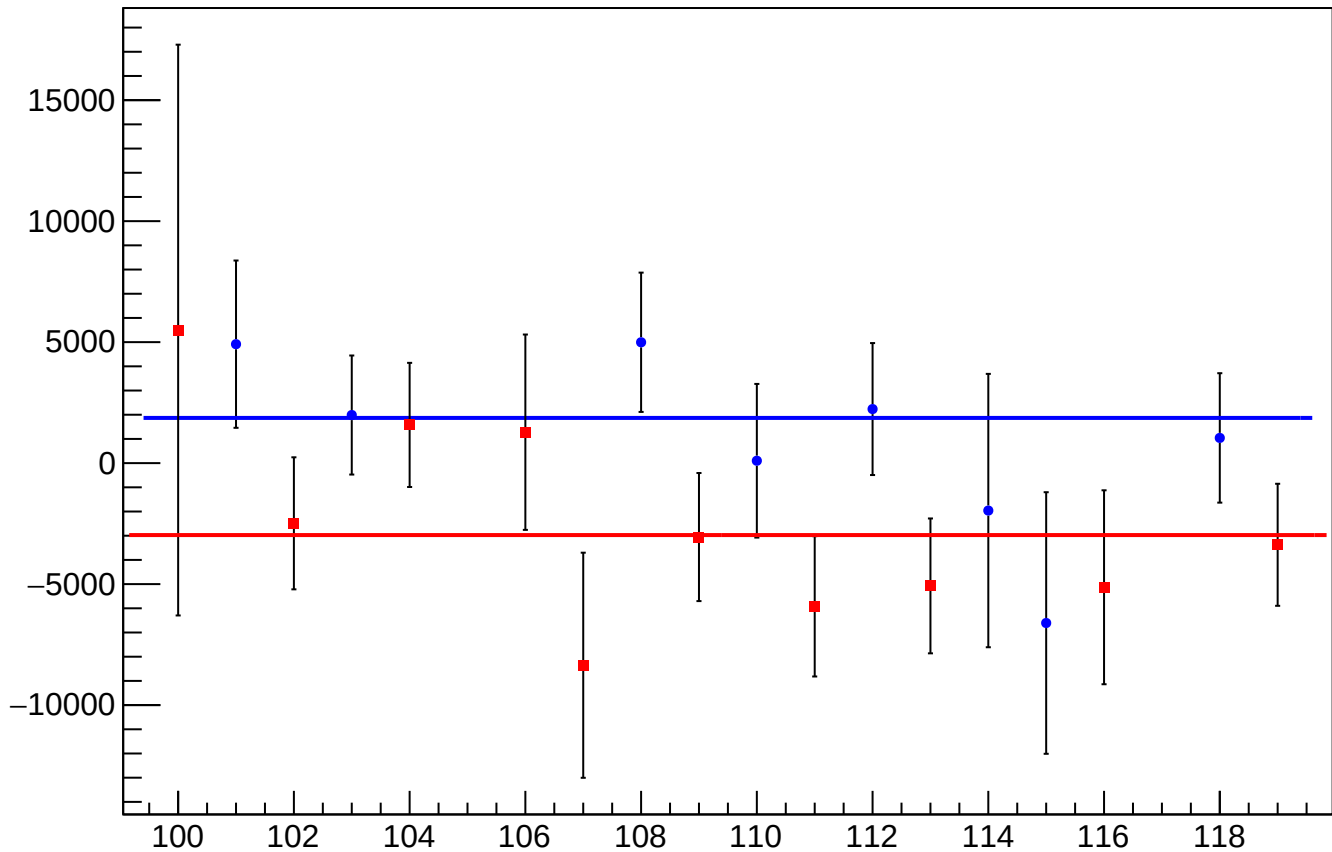
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5827.876 $\pm$ 1.544  $\chi^2$ /NDF: 401952.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_cor\_asym\_atl2\_mean vs Slug



Right In: 1868.361+/-1112.026  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2973.172+/-994.521  $\chi^2/\text{NDF}$ : 8.1/9

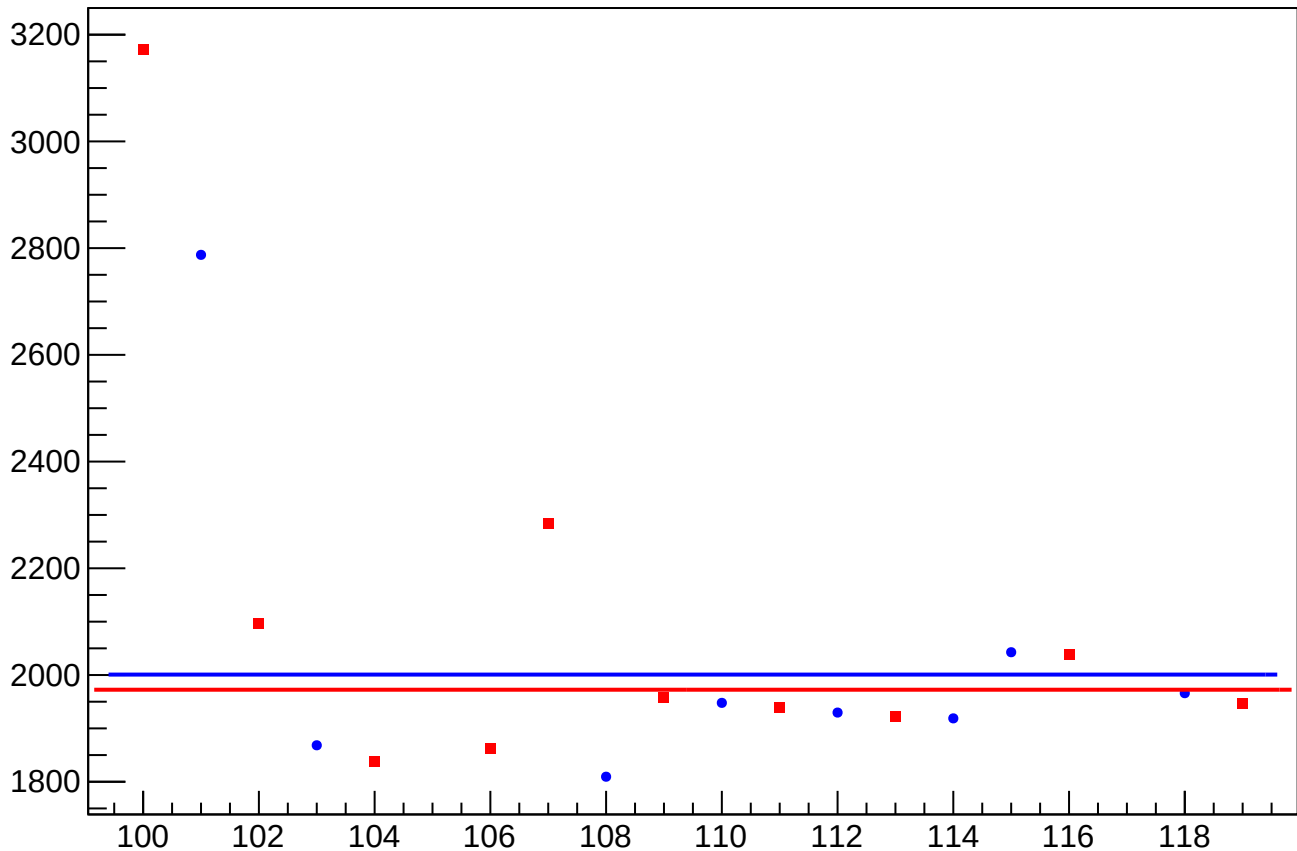
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -821.633+/-741.307  $\chi^2/\text{NDF}$ : 23.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl2\_rms vs Slug



Right In: 2000.827 $\pm$ 0.786  $\chi^2$ /NDF: 120997.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1972.457 $\pm$ 0.703  $\chi^2$ /NDF: 42498.8/9

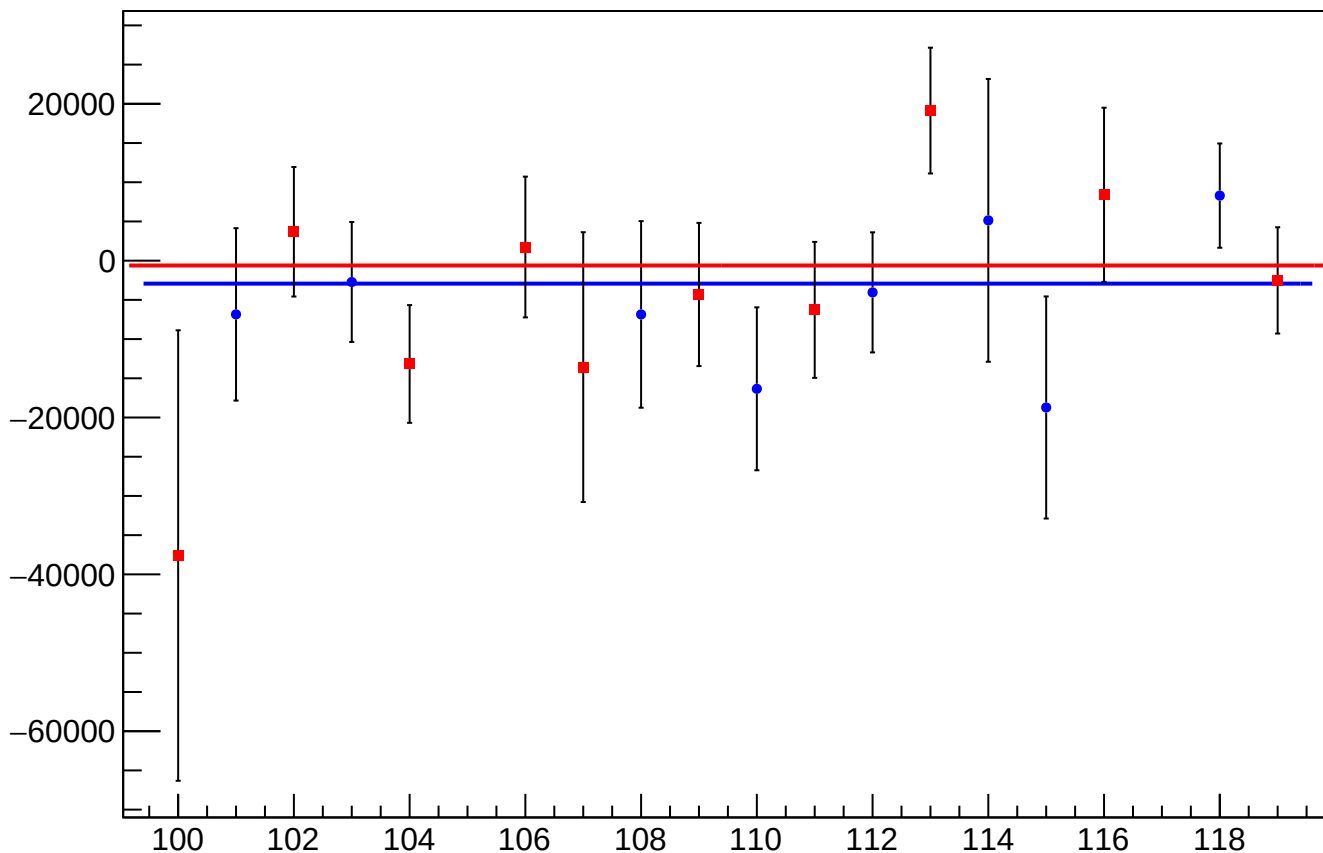
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1985.064 $\pm$ 0.524  $\chi^2$ /NDF: 164219.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_eigen\_cor\_correction\_mean vs Slug



Right In: -2927.649+/-3343.547  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -616.501+/-2884.825  $\chi^2/\text{NDF}$ : 12.8/9

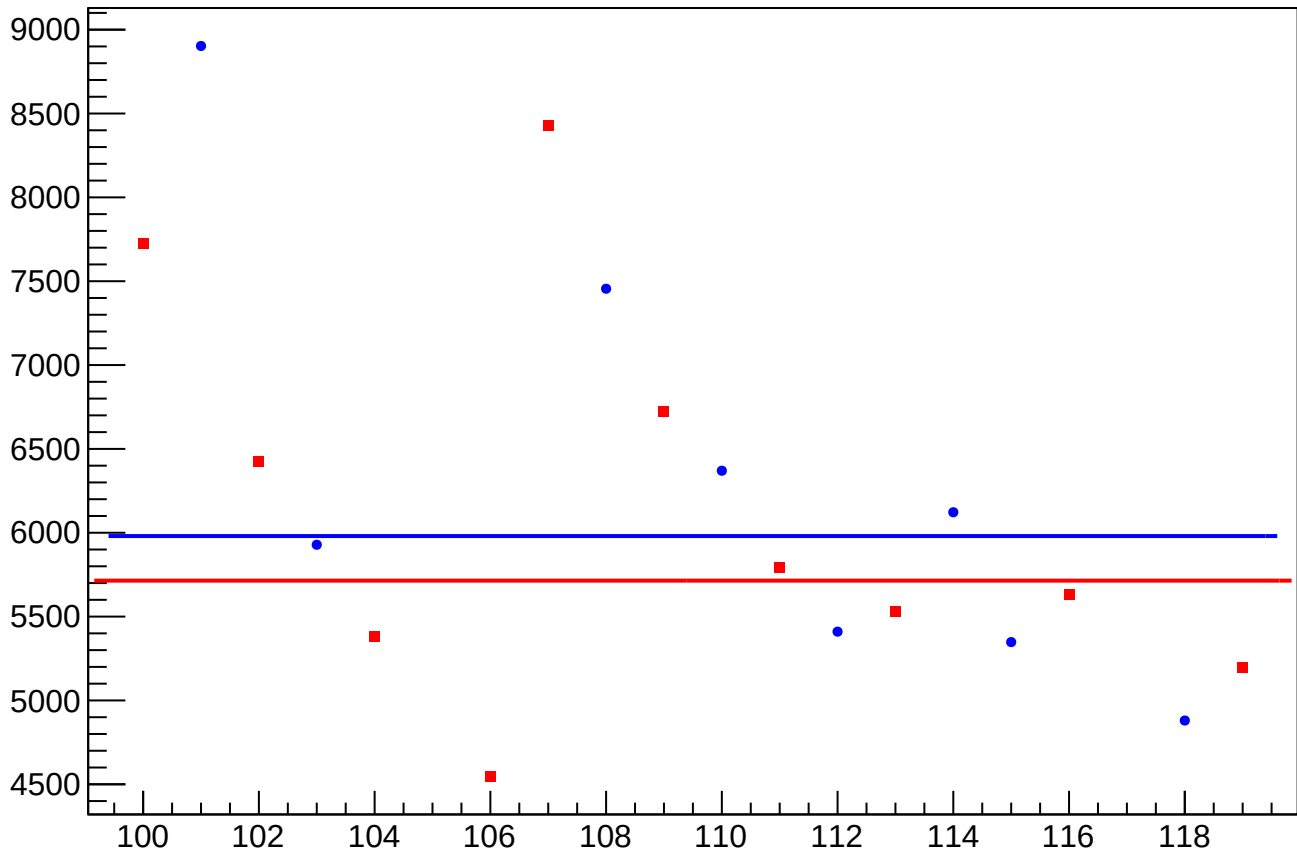
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1602.776+/-2184.201  $\chi^2/\text{NDF}$ : 19.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_eigen\_cor\_correction\_rms vs Slug



Right In: 5980.249+/-2.364  $\chi^2/\text{NDF}$ : 244942.0/7

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

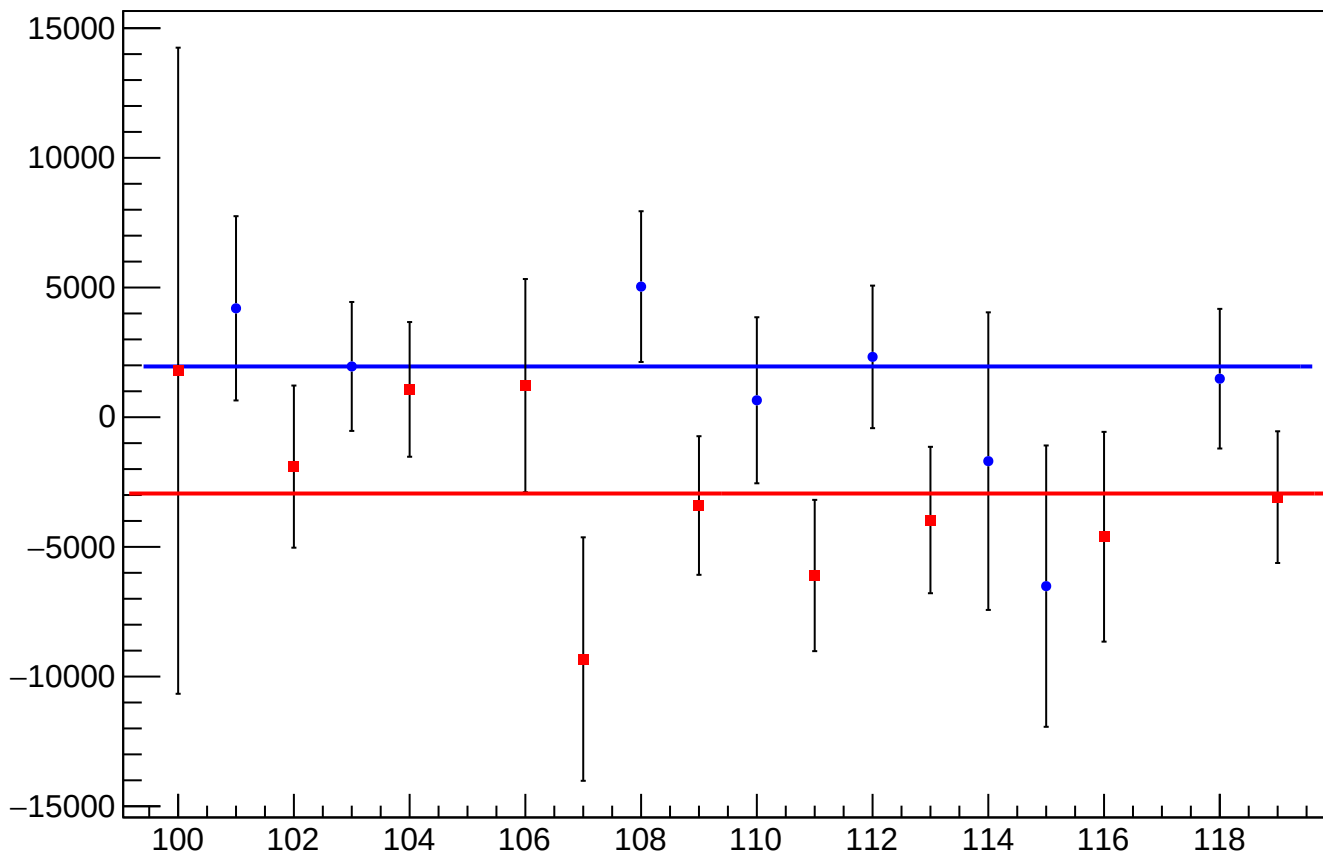
Right Out: 5714.445+/-2.040  $\chi^2/\text{NDF}$ : 149765.0/9

All: 5827.876+/-1.544  $\chi^2/\text{NDF}$ : 401952.8/17

- 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\_atl2\_mean vs Slug



Right In: 1956.746 $\pm$ 1123.787  $\chi^2$ /NDF: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2942.057 $\pm$ 1020.097  $\chi^2$ /NDF: 7.0/9

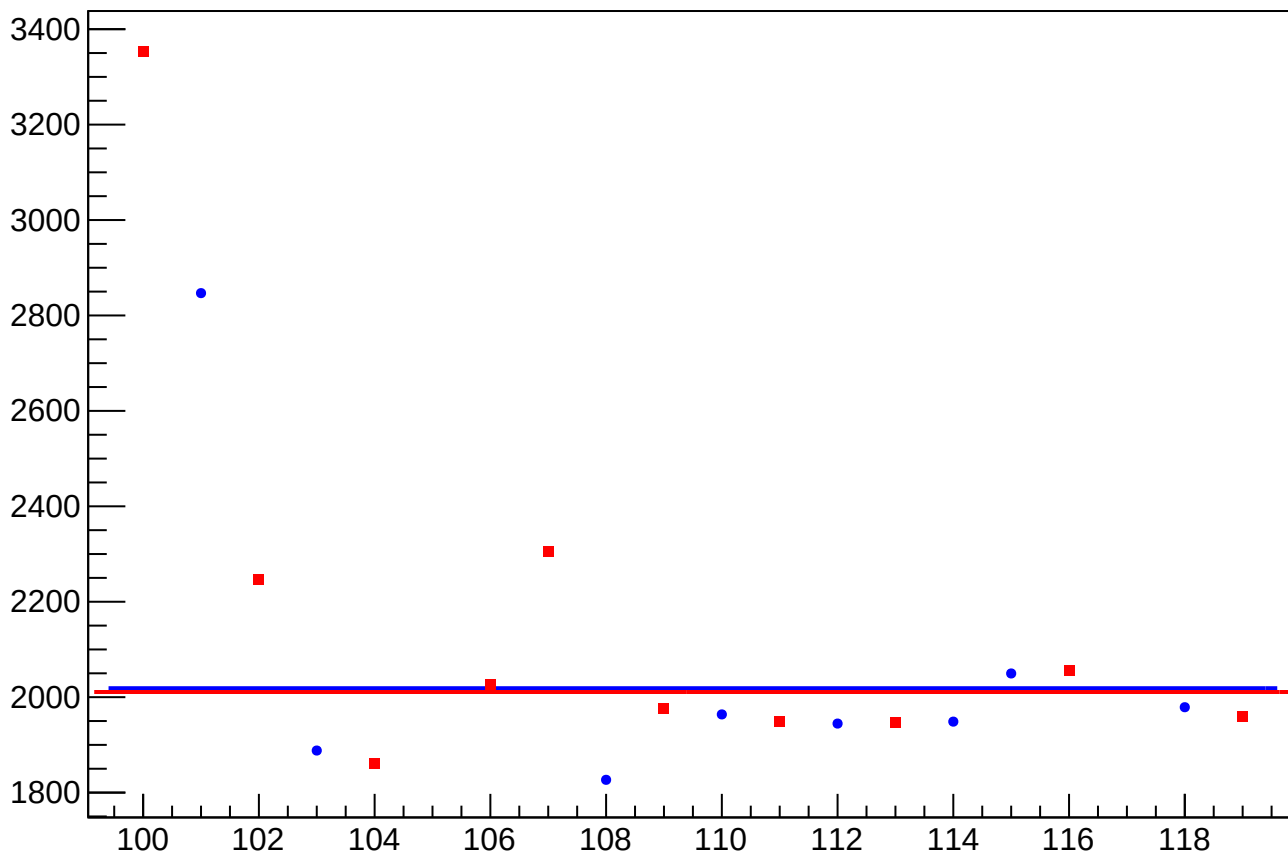
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -729.035 $\pm$ 755.321  $\chi^2$ /NDF: 22.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atl2\_rms vs Slug



Right In: 2018.786+/-0.795  $\chi^2/\text{NDF}$ : 125763.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2010.841+/-0.719  $\chi^2/\text{NDF}$ : 52459.0/9

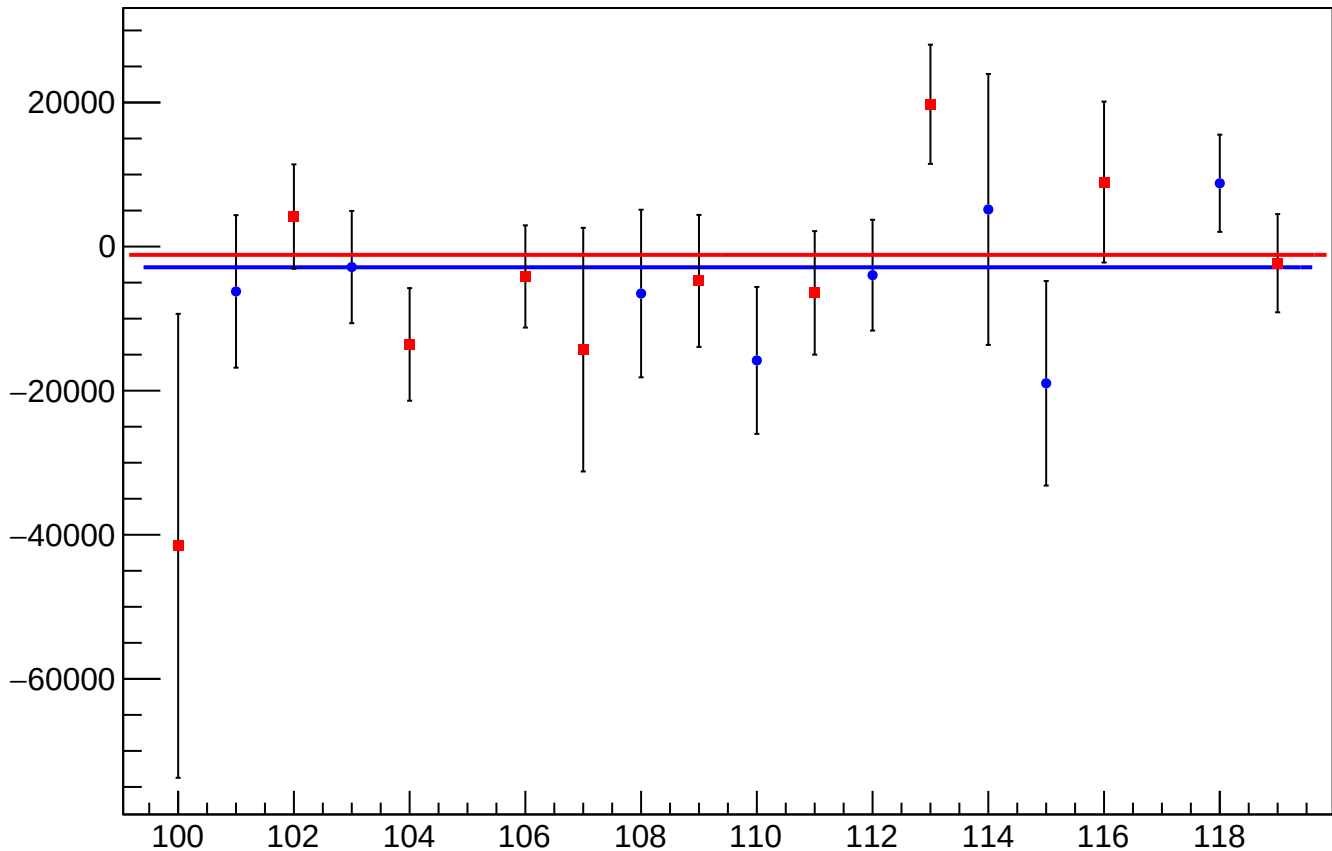
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2014.419+/-0.533  $\chi^2/\text{NDF}$ : 178277.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_dit\_correction\_mean vs Slug



Right In: -2872.212 $\pm$ 3349.965  $\chi^2$ /NDF: 6.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1149.568 $\pm$ 2779.646  $\chi^2$ /NDF: 13.2/9

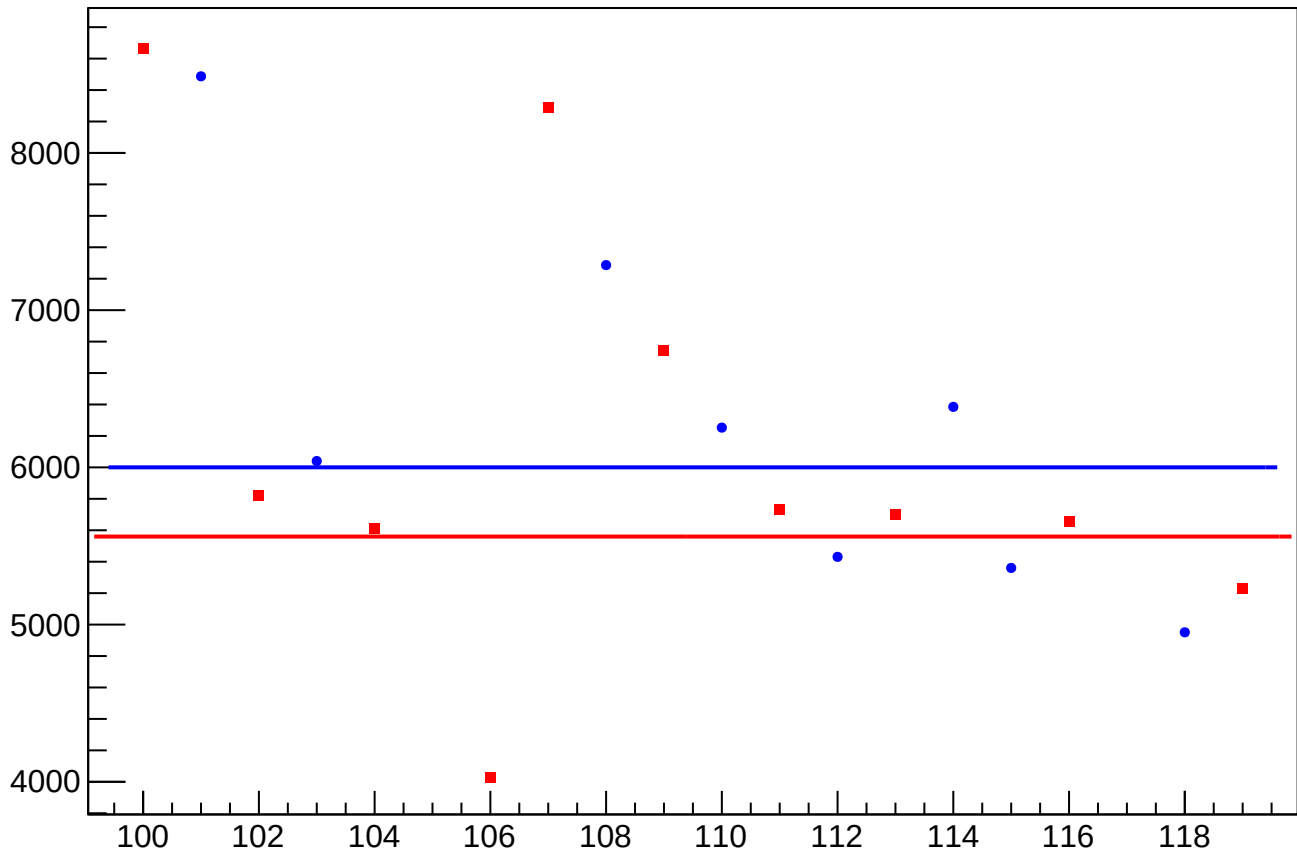
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1851.985 $\pm$ 2139.144  $\chi^2$ /NDF: 19.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_dit\_correction\_rms vs Slug



Right In: 6000.265+/-2.369  $\chi^2/\text{NDF}$ : 200398.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5559.970+/-1.966  $\chi^2/\text{NDF}$ : 205994.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

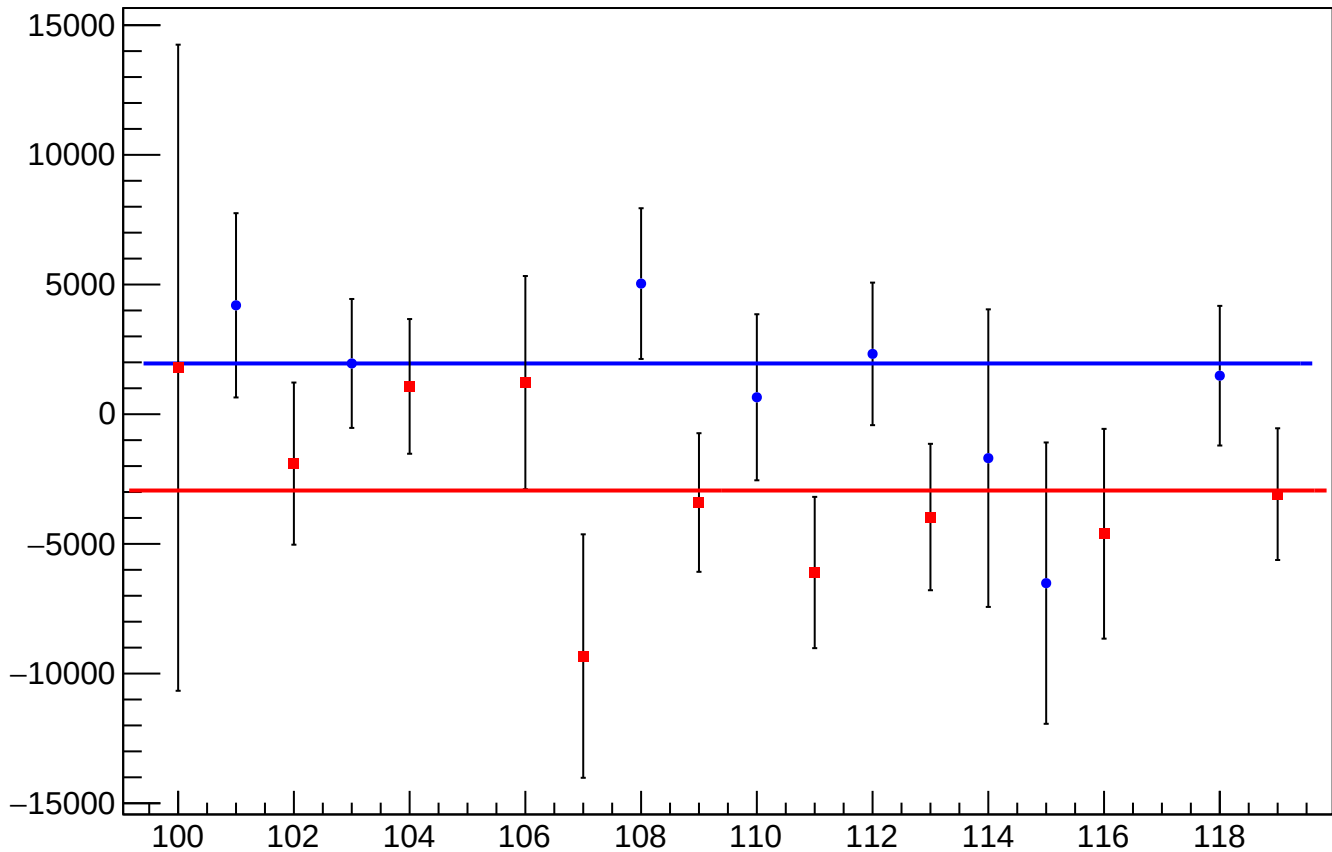
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5739.503+/-1.513  $\chi^2/\text{NDF}$ : 426854.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_atl2\_mean vs Slug



Right In: 1956.760 $\pm$ 1123.787  $\chi^2$ /NDF: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2942.073 $\pm$ 1020.097  $\chi^2$ /NDF: 7.0/9

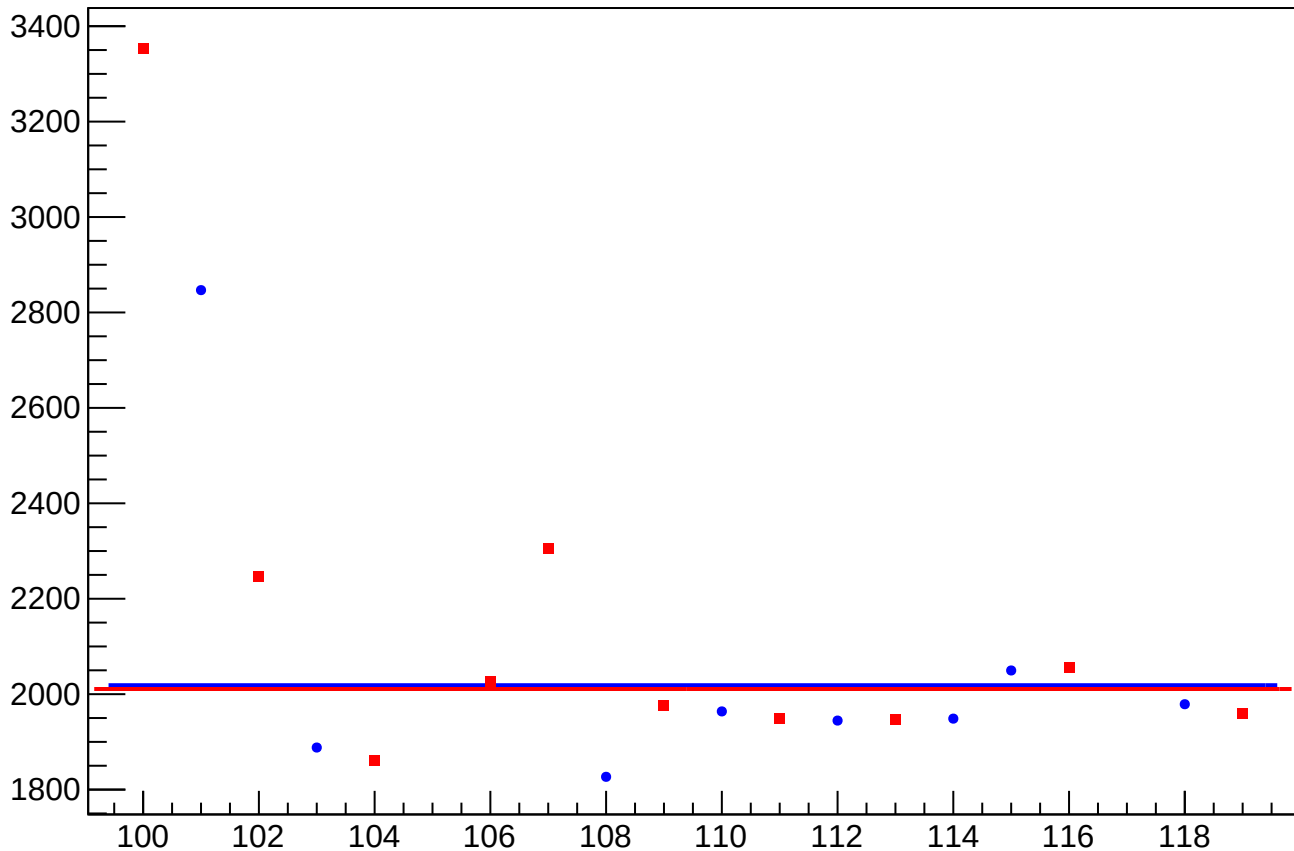
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -729.038 $\pm$ 755.321  $\chi^2$ /NDF: 22.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atl2\_rms vs Slug



Right In: 2018.786+/-0.795  $\chi^2/\text{NDF}$ : 125763.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2010.840+/-0.719  $\chi^2/\text{NDF}$ : 52459.0/9

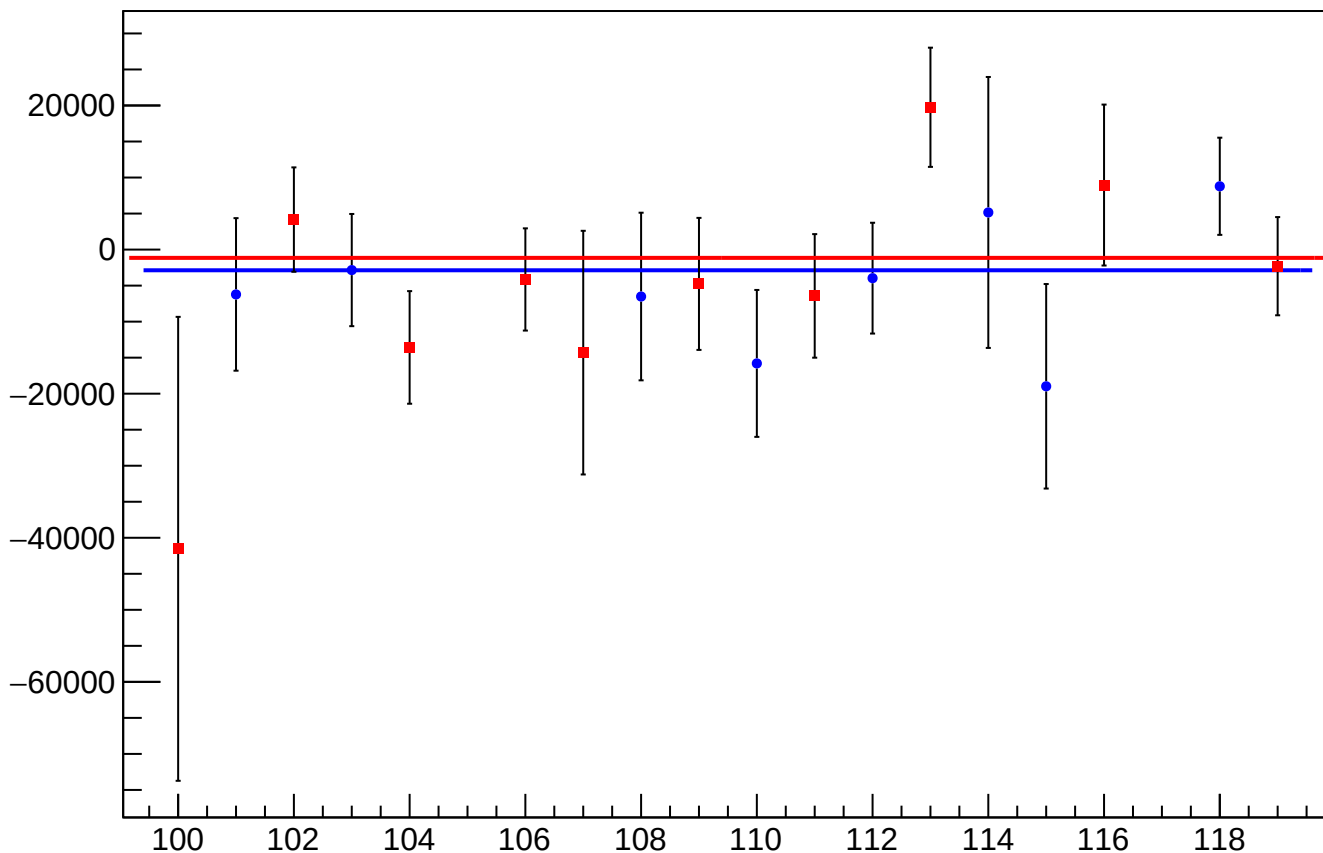
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2014.419+/-0.533  $\chi^2/\text{NDF}$ : 178277.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_eigen\_dit\_correction\_mean vs Slug



Right In: -2872.190+/-3349.953  $\chi^2/\text{NDF}$ : 6.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1149.571+/-2779.638  $\chi^2/\text{NDF}$ : 13.2/9

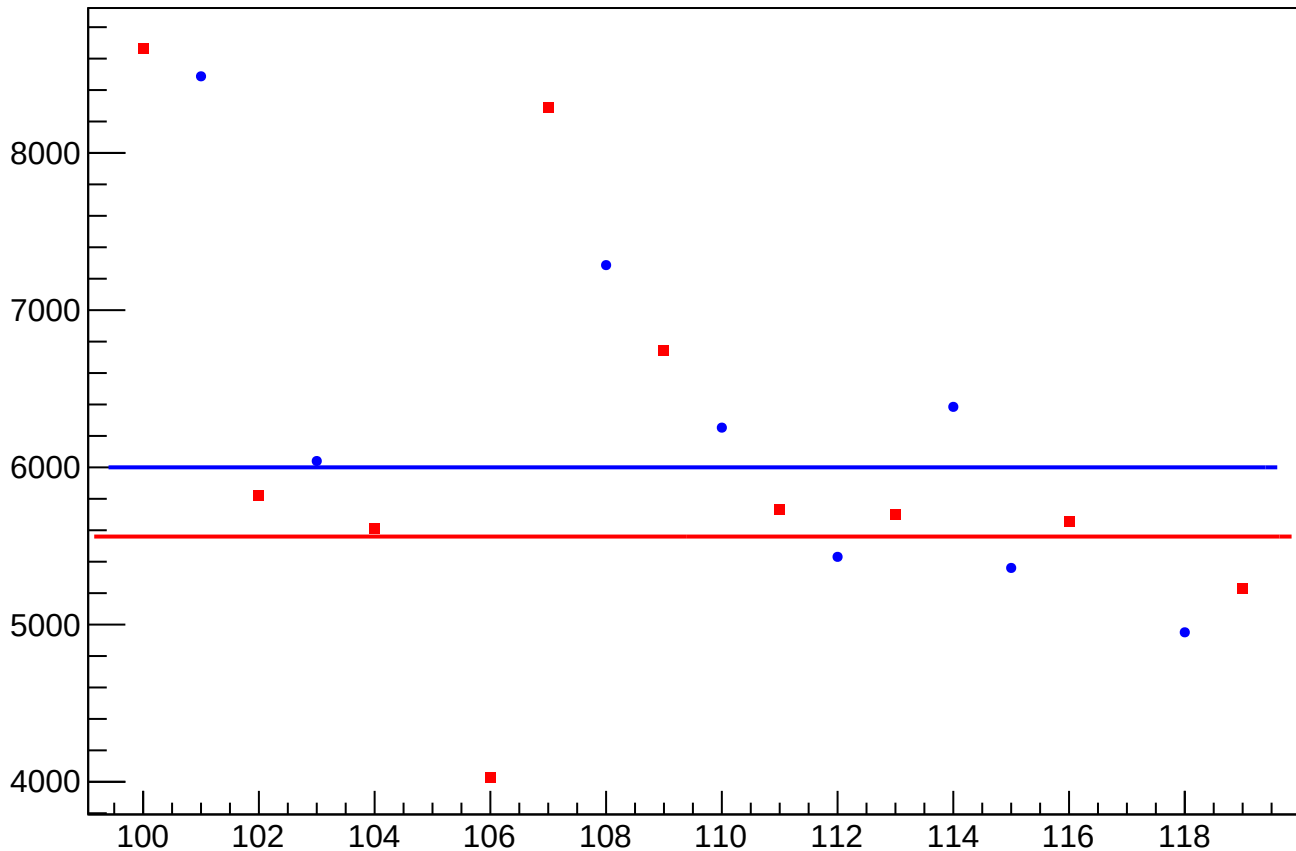
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1851.979+/-2139.137  $\chi^2/\text{NDF}$ : 19.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_eigen\_dit\_correction\_rms vs Slug



Right In: 6000.244+/-2.369  $\chi^2/\text{NDF}$ : 200401.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5559.953+/-1.966  $\chi^2/\text{NDF}$ : 205995.8/9

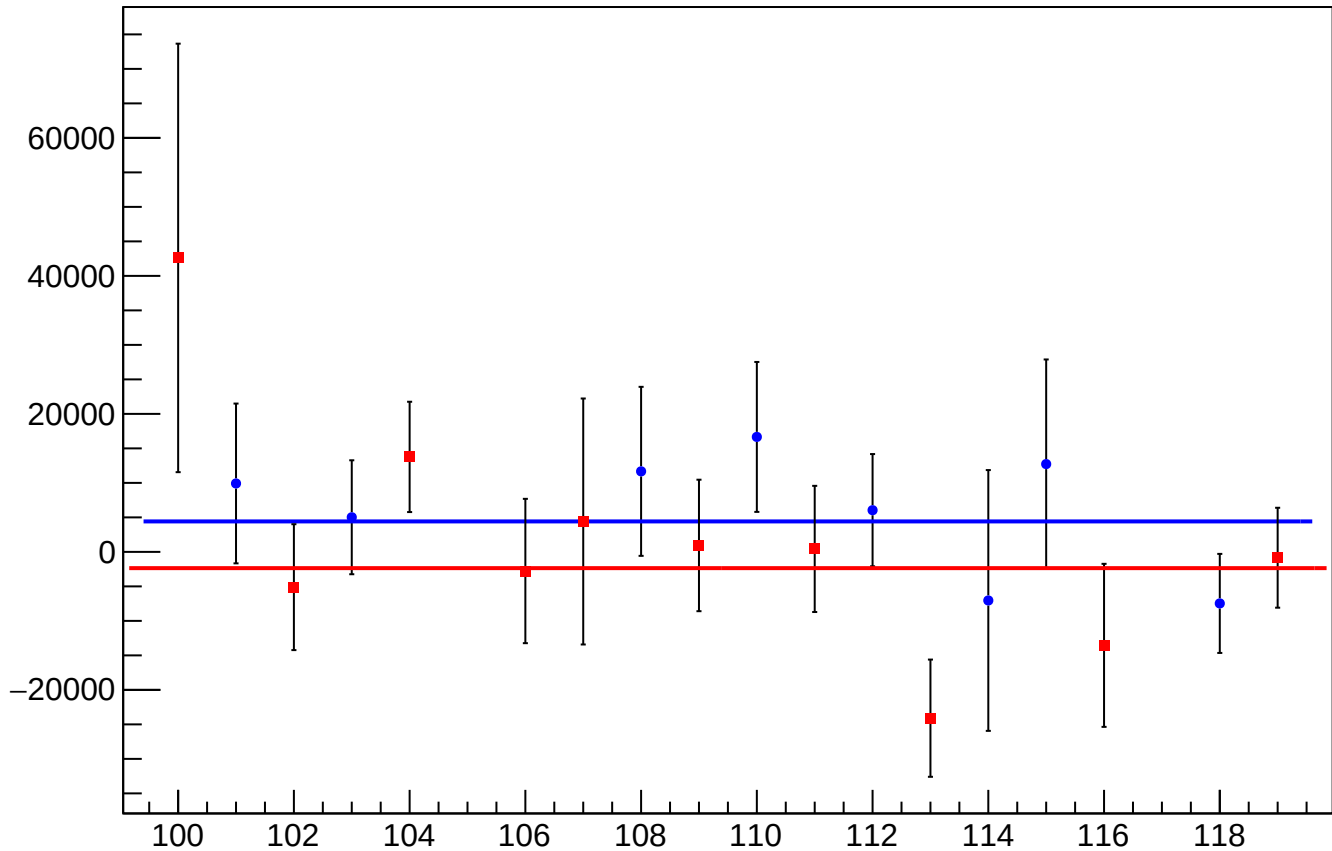
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5739.484+/-1.513  $\chi^2/\text{NDF}$ : 426858.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_mean vs Slug



Right In: 4415.831+/-3559.167  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2355.737+/-3099.867  $\chi^2/\text{NDF}$ : 14.1/9

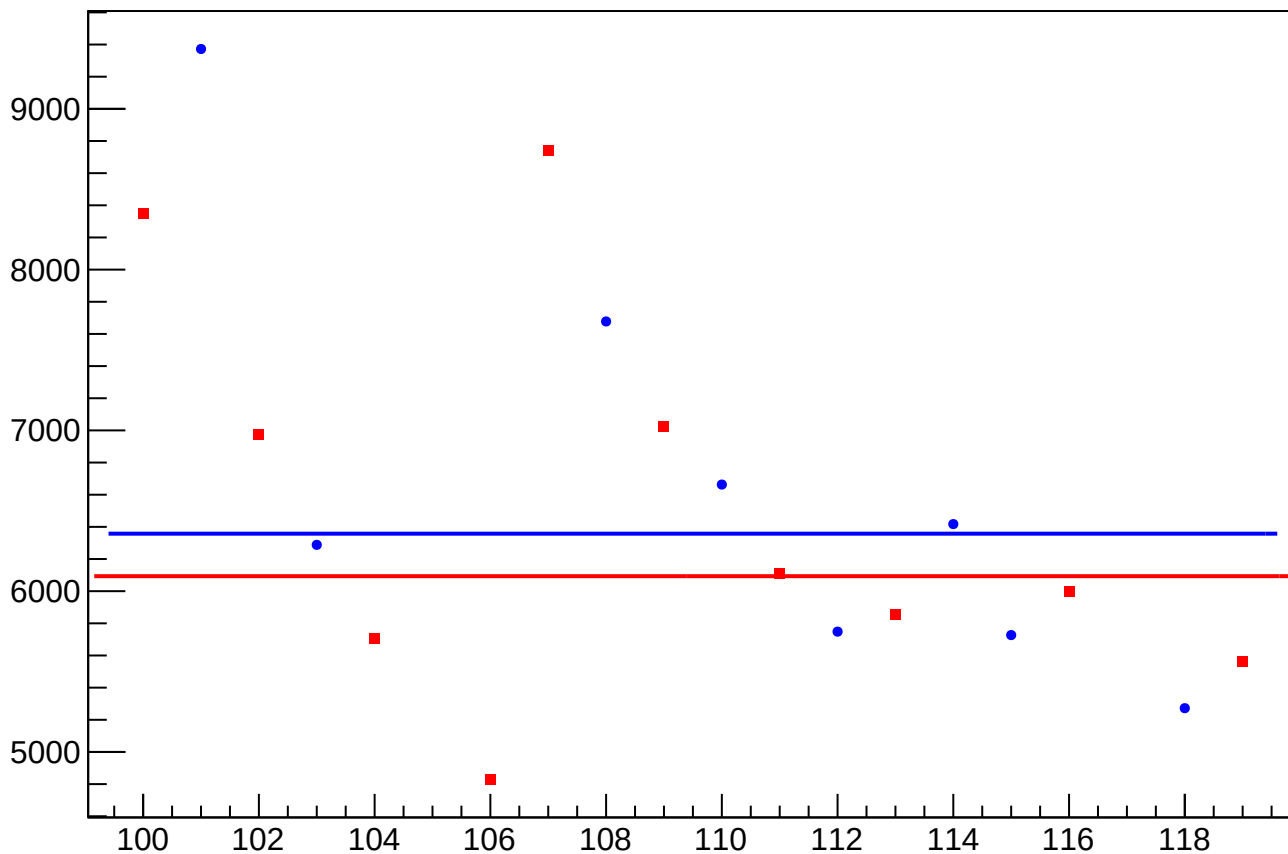
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 565.197+/-2337.570  $\chi^2/\text{NDF}$ : 21.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_rms vs Slug



Right In: 6357.658 $\pm$ 2.517  $\chi^2$ /NDF: 220971.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6093.297 $\pm$ 2.192  $\chi^2$ /NDF: 138828.2/9

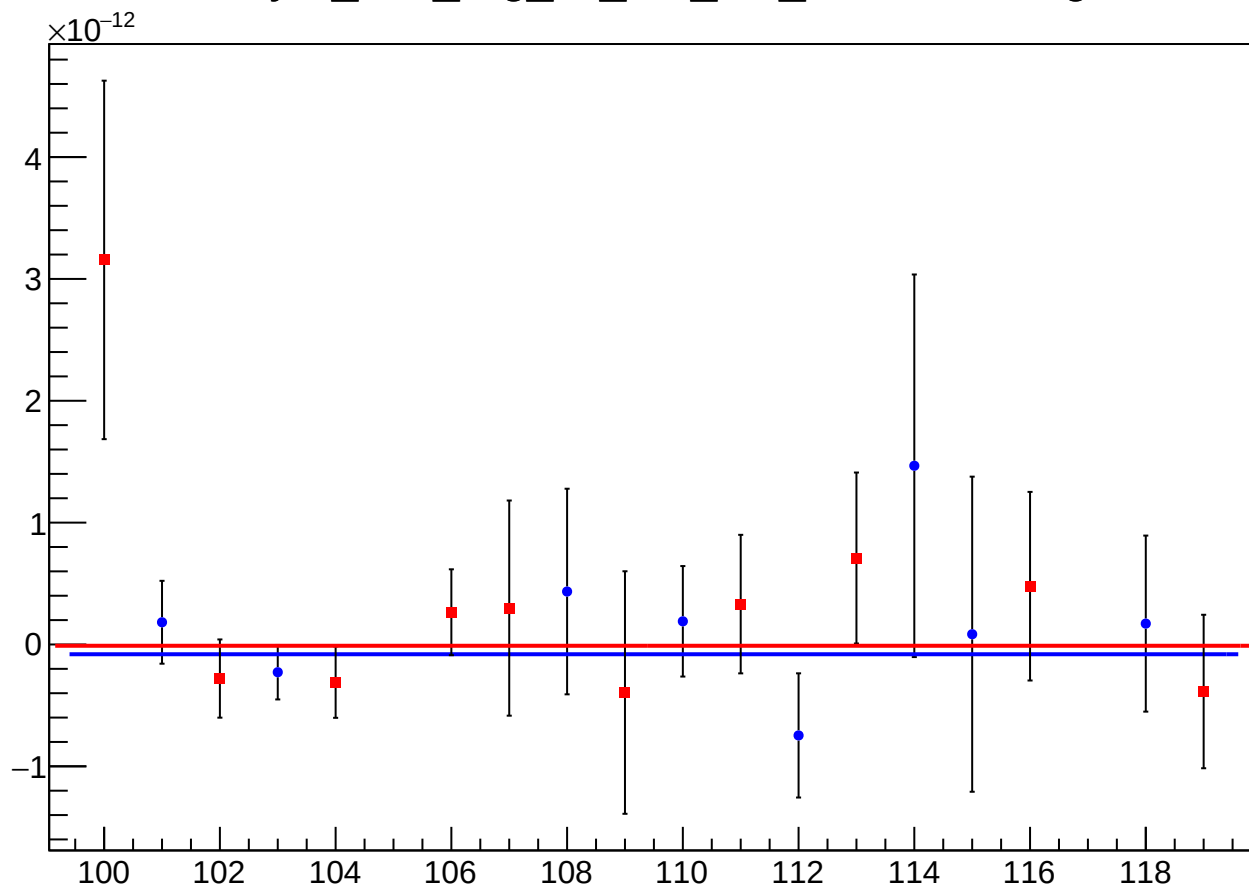
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6207.329 $\pm$ 1.653  $\chi^2$ /NDF: 366074.1/17

- 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  $\chi^2/\text{NDF}$ : 4.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.4/9

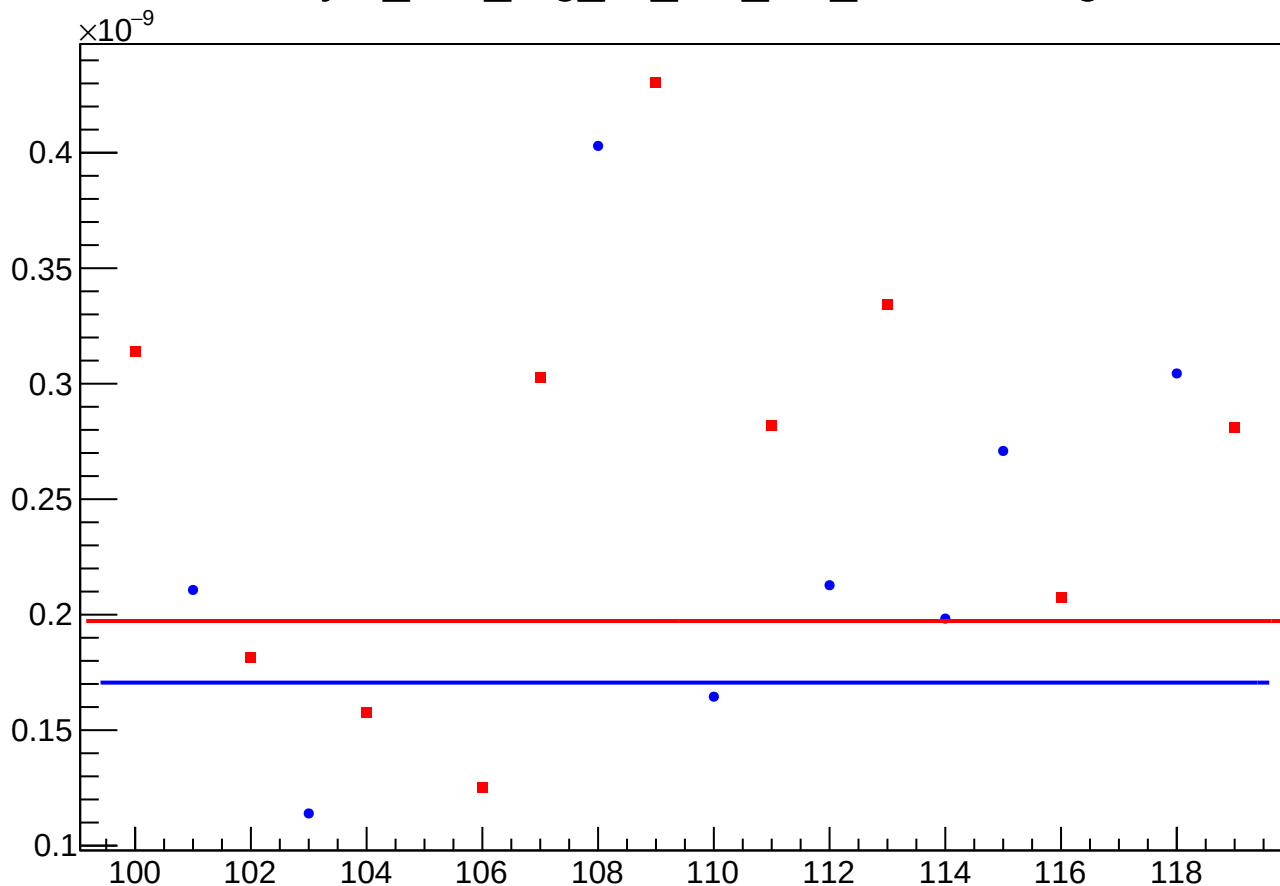
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 403361.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 431934.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

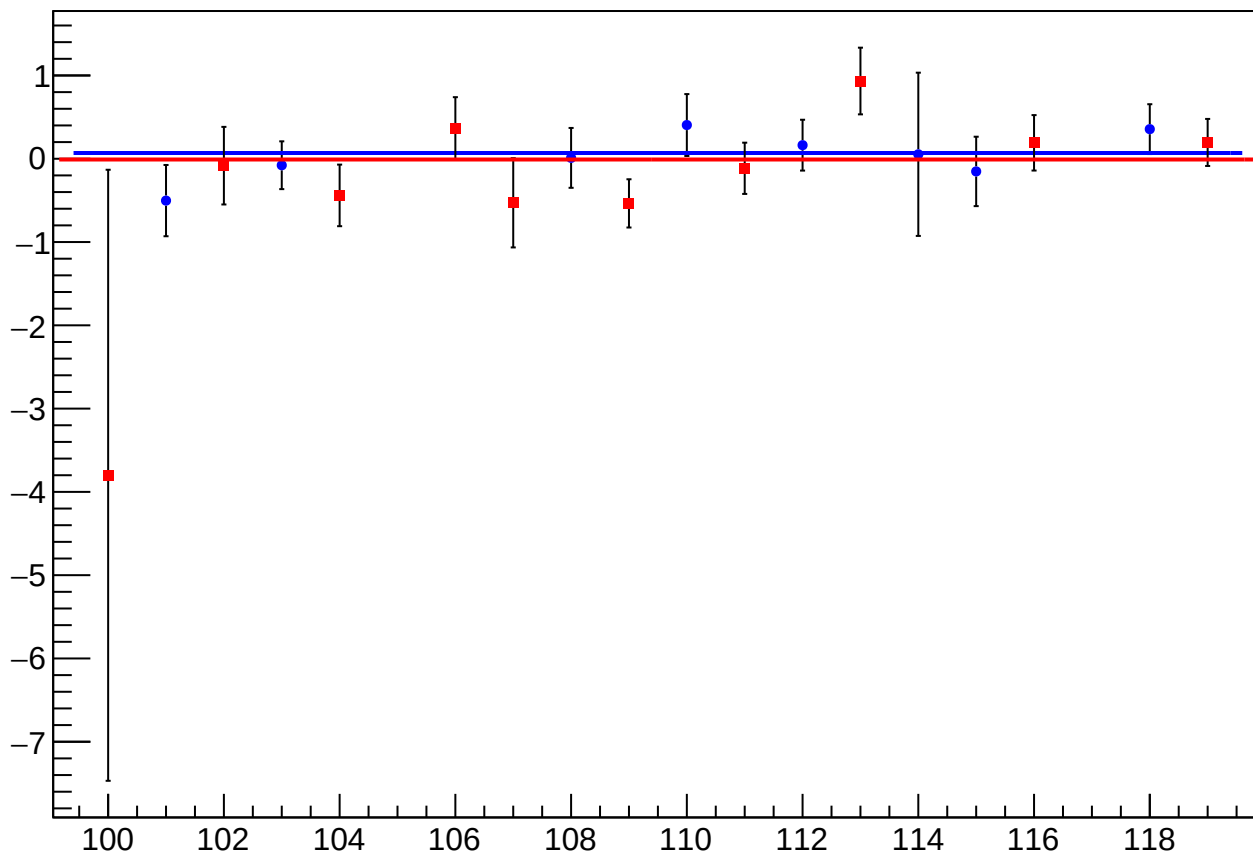
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 864892.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl2\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.069 $\pm$ 0.128  $\chi^2$ /NDF: 4.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.009 $\pm$ 0.117  $\chi^2$ /NDF: 14.3/9

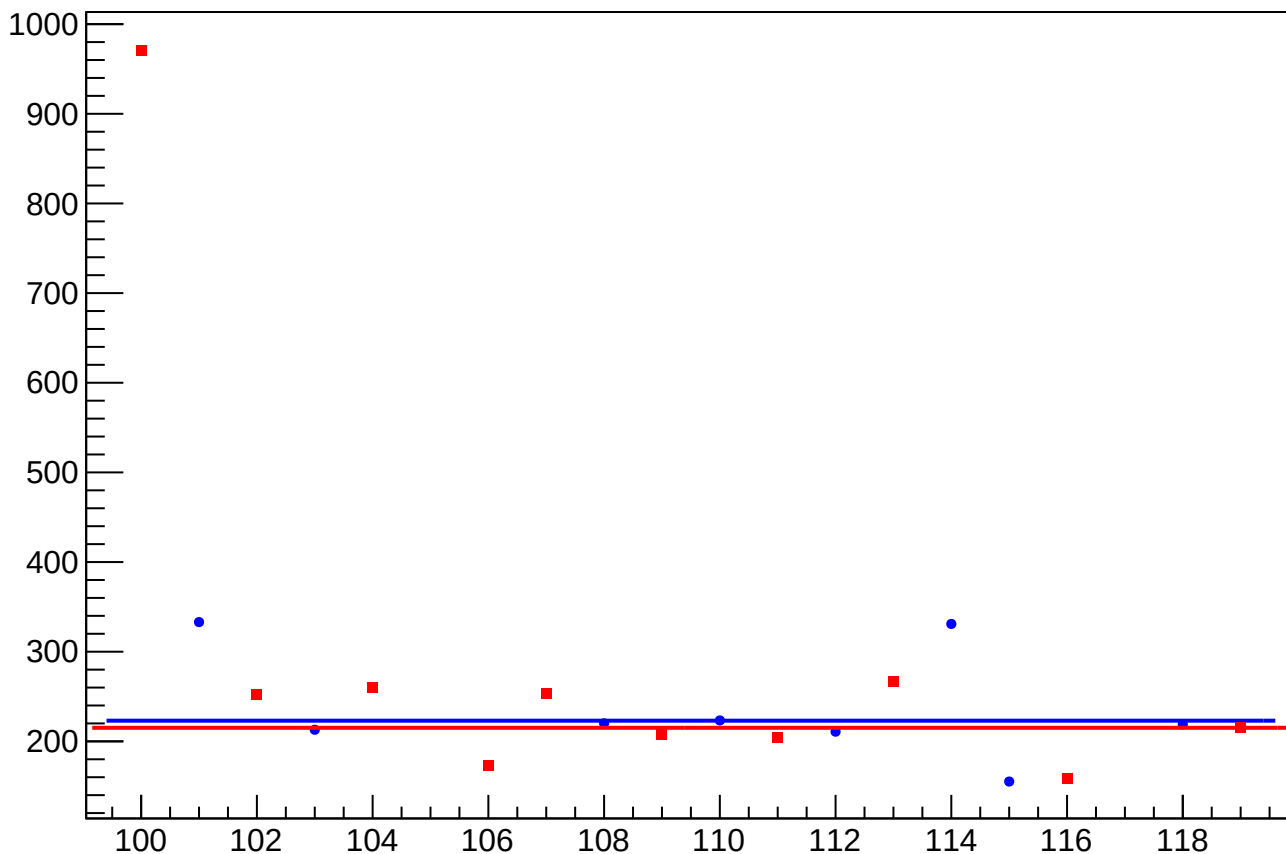
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.086  $\chi^2$ /NDF: 18.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 223.062 $\pm$ 0.090  $\chi^2$ /NDF: 215788.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 215.138 $\pm$ 0.083  $\chi^2$ /NDF: 256199.7/9

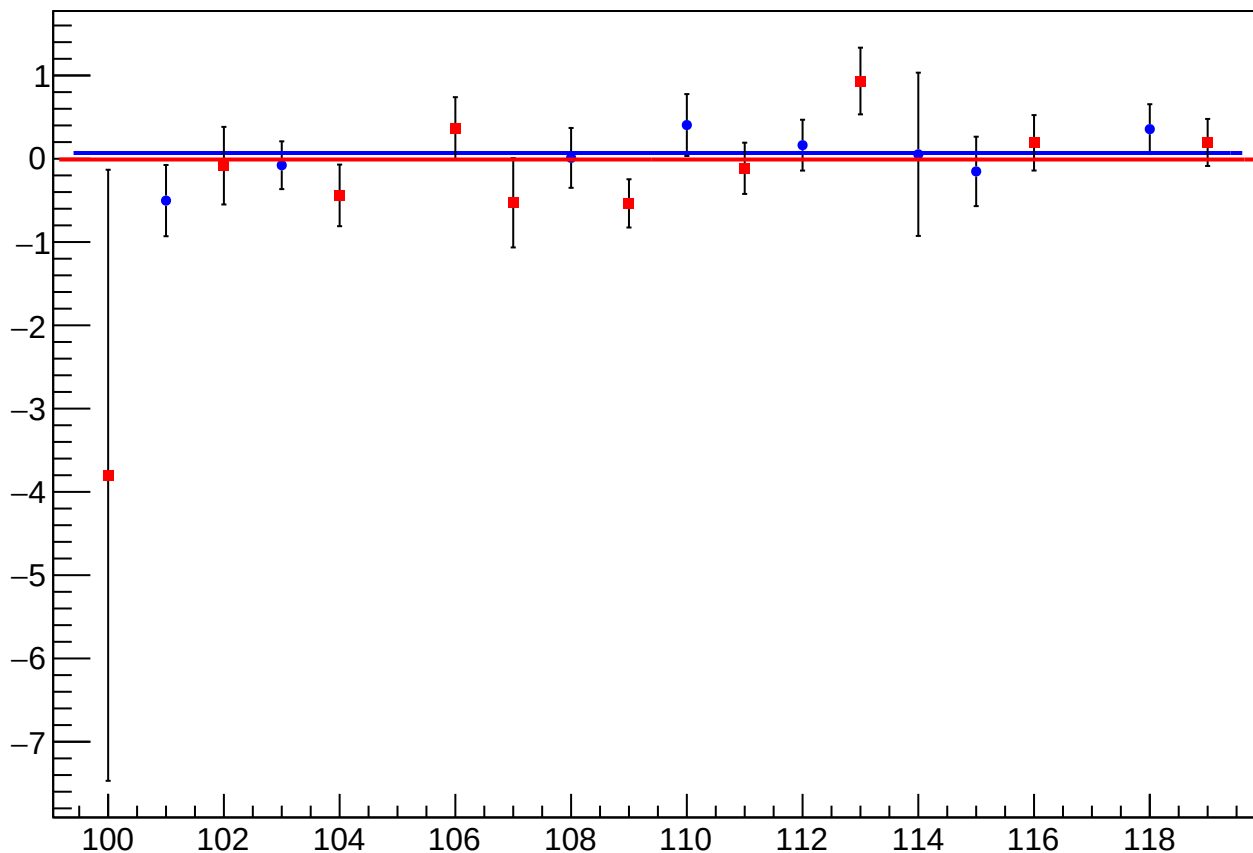
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 218.755 $\pm$ 0.061  $\chi^2$ /NDF: 476172.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.069 $\pm$ 0.128  $\chi^2$ /NDF: 4.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.009 $\pm$ 0.117  $\chi^2$ /NDF: 14.3/9

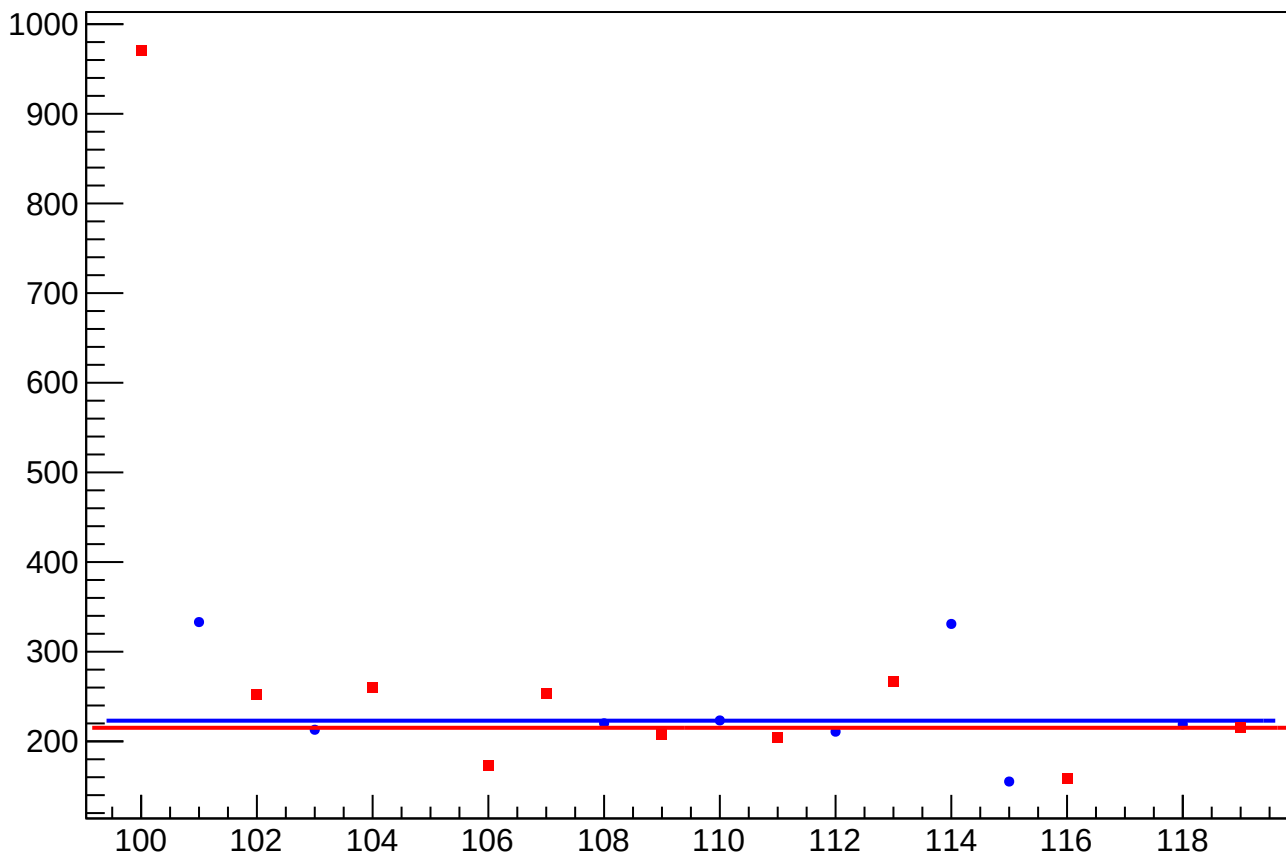
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.086  $\chi^2$ /NDF: 18.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 223.062 $\pm$ 0.090  $\chi^2$ /NDF: 215788.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 215.138 $\pm$ 0.083  $\chi^2$ /NDF: 256199.7/9

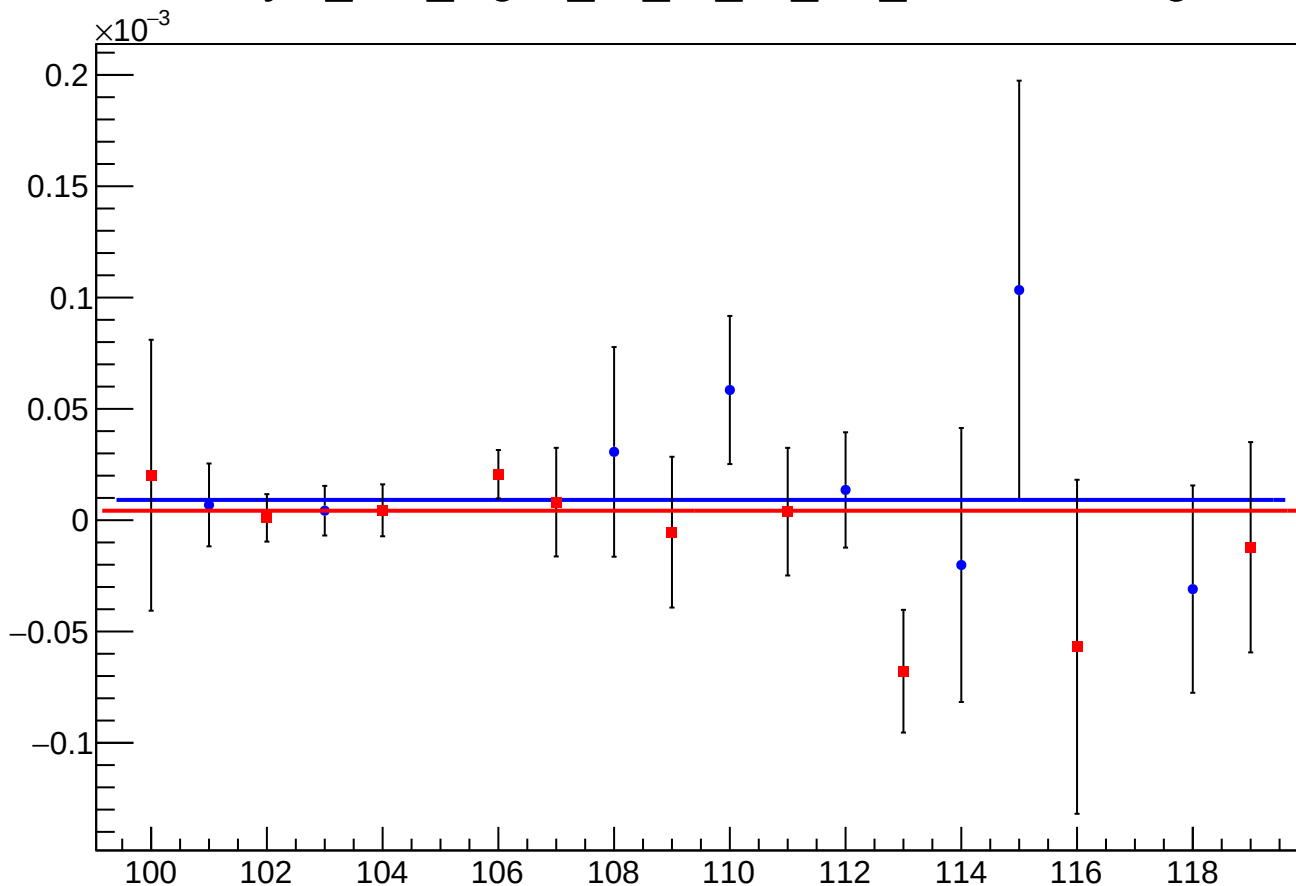
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 218.755 $\pm$ 0.061  $\chi^2$ /NDF: 476172.1/17

- 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: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.2/9

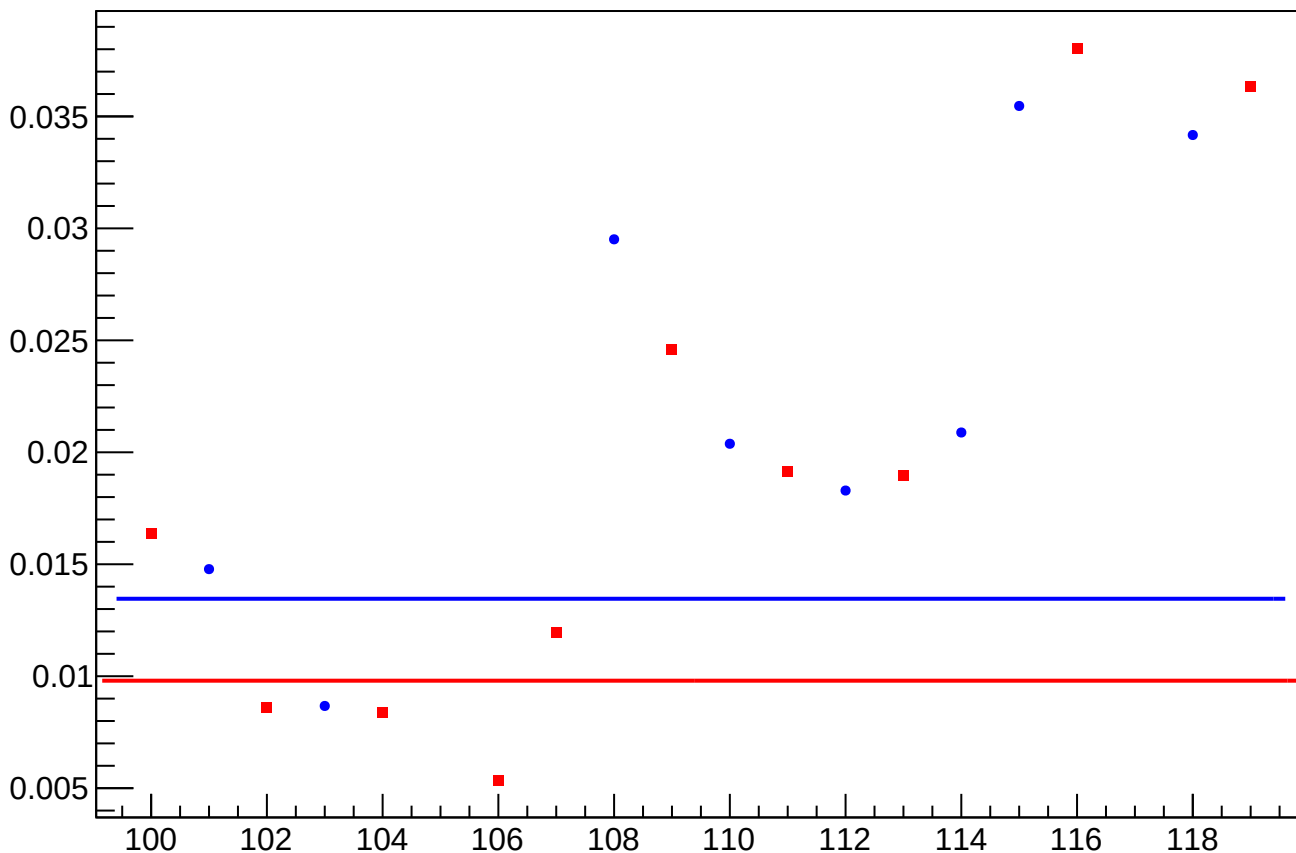
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 1301797.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 2159936.7/9

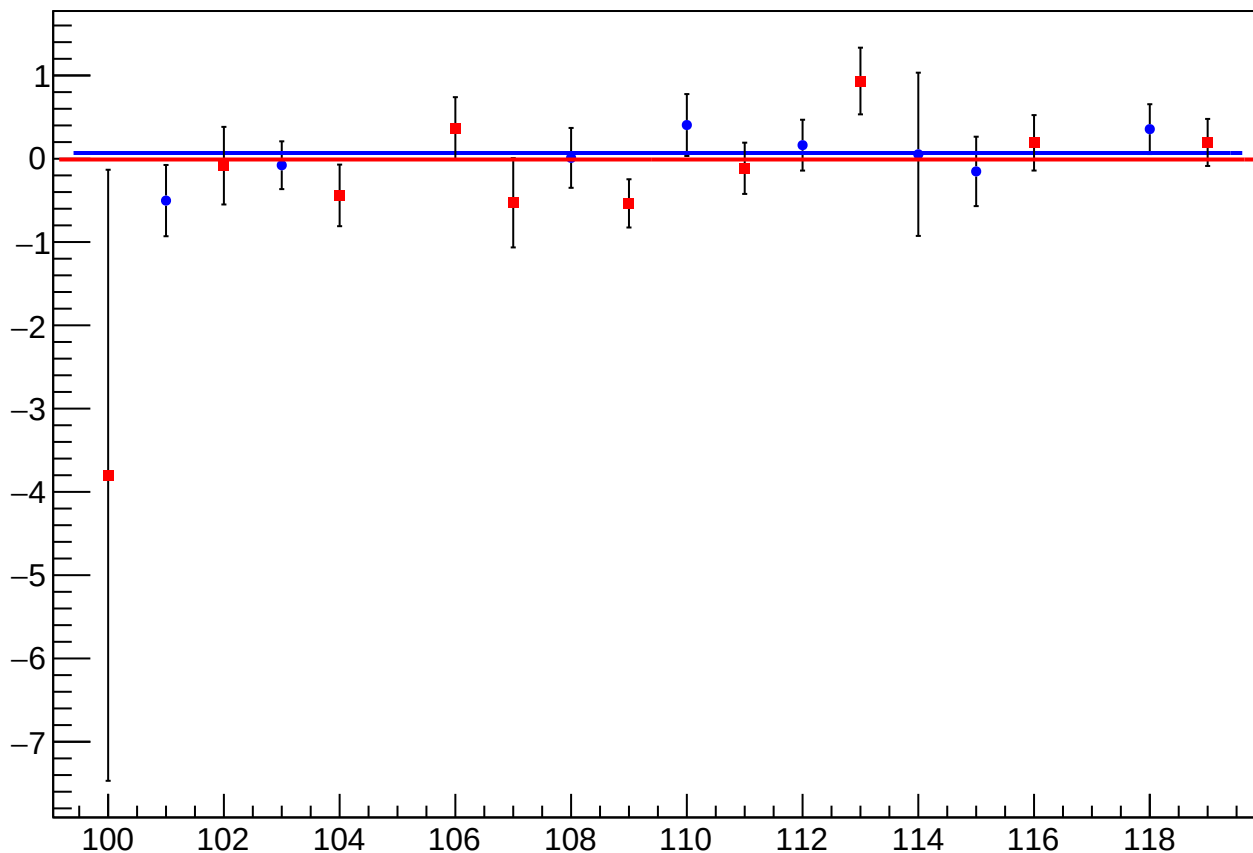
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 3726523.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.069 $\pm$ 0.128  $\chi^2$ /NDF: 4.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.009 $\pm$ 0.117  $\chi^2$ /NDF: 14.3/9

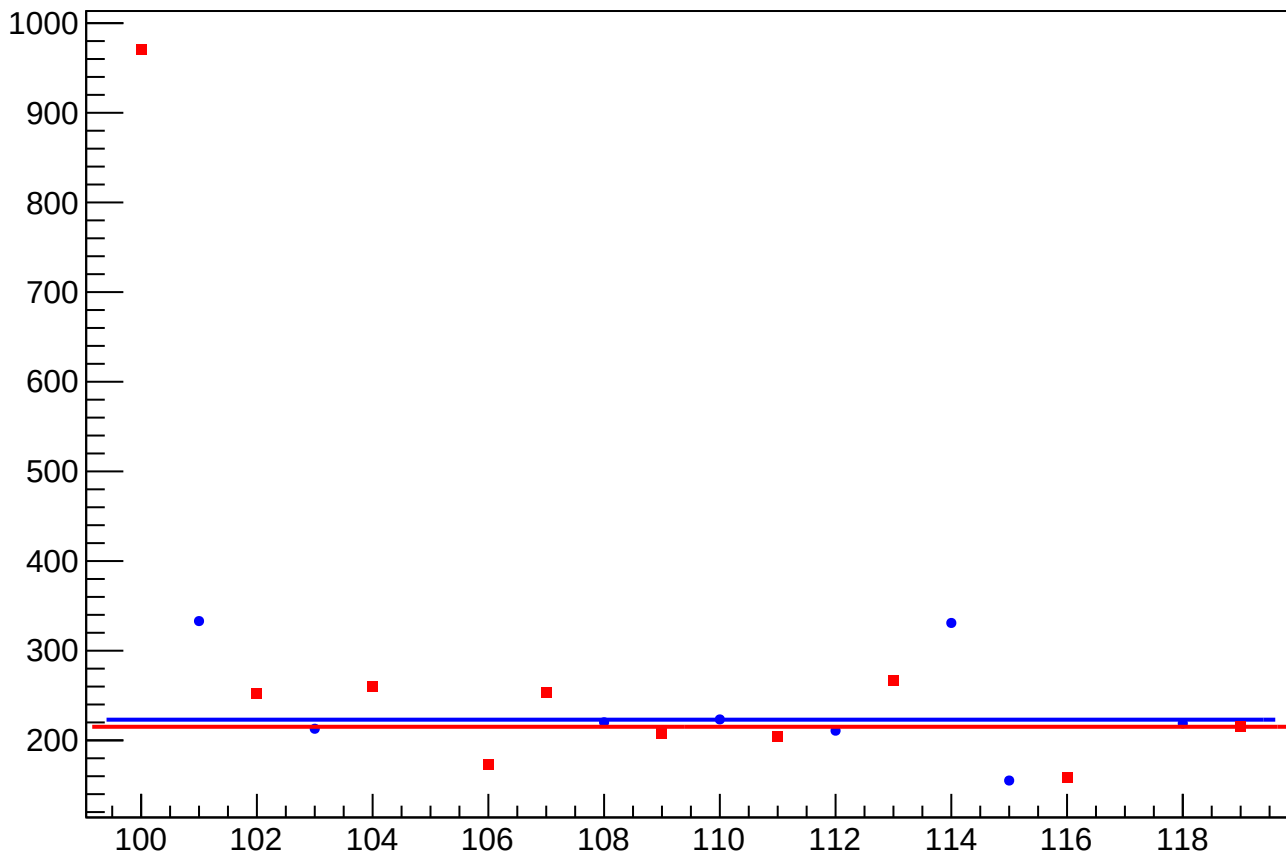
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.086  $\chi^2$ /NDF: 18.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 223.065 $\pm$ 0.090  $\chi^2$ /NDF: 215766.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 215.142 $\pm$ 0.083  $\chi^2$ /NDF: 256161.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

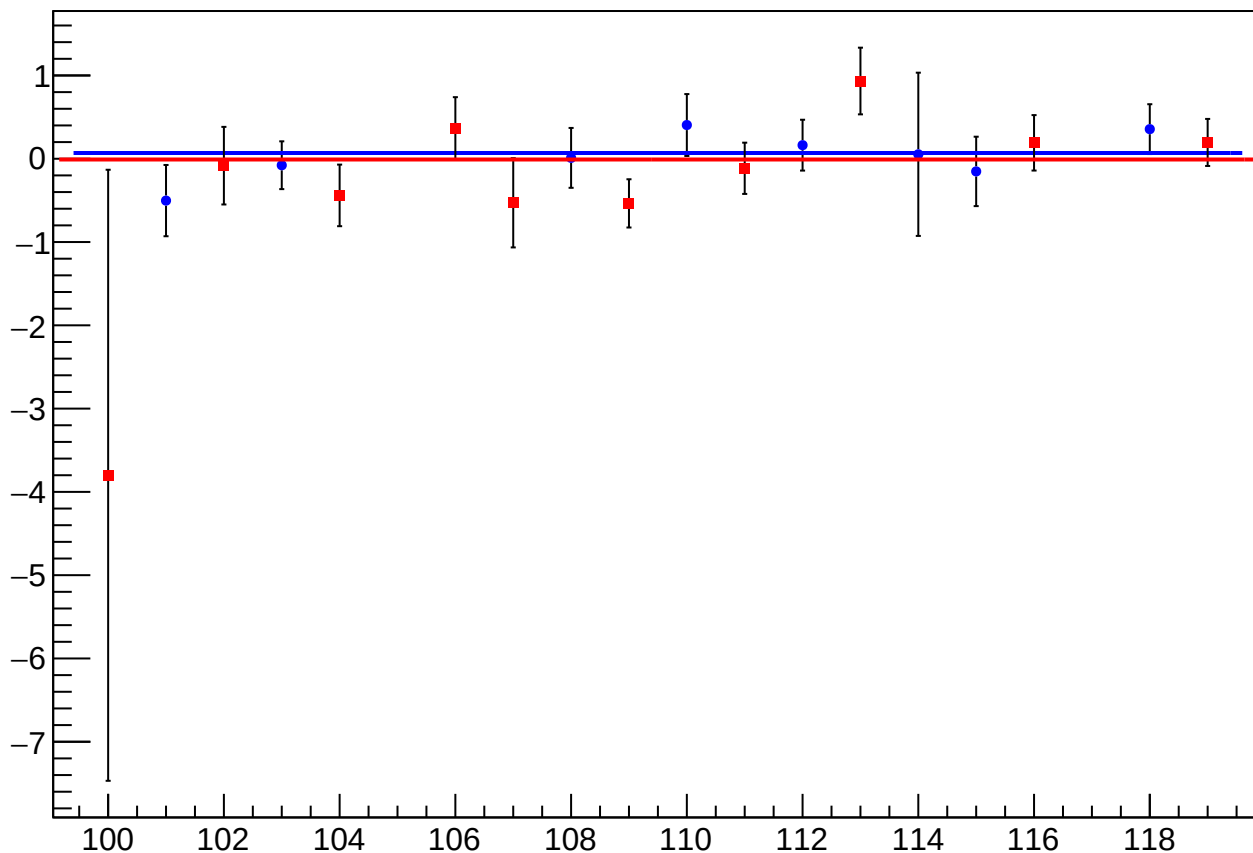
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 218.759 $\pm$ 0.061  $\chi^2$ /NDF: 476110.3/17

- 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: 0.069 $\pm$ 0.128  $\chi^2$ /NDF: 4.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.009 $\pm$ 0.117  $\chi^2$ /NDF: 14.3/9

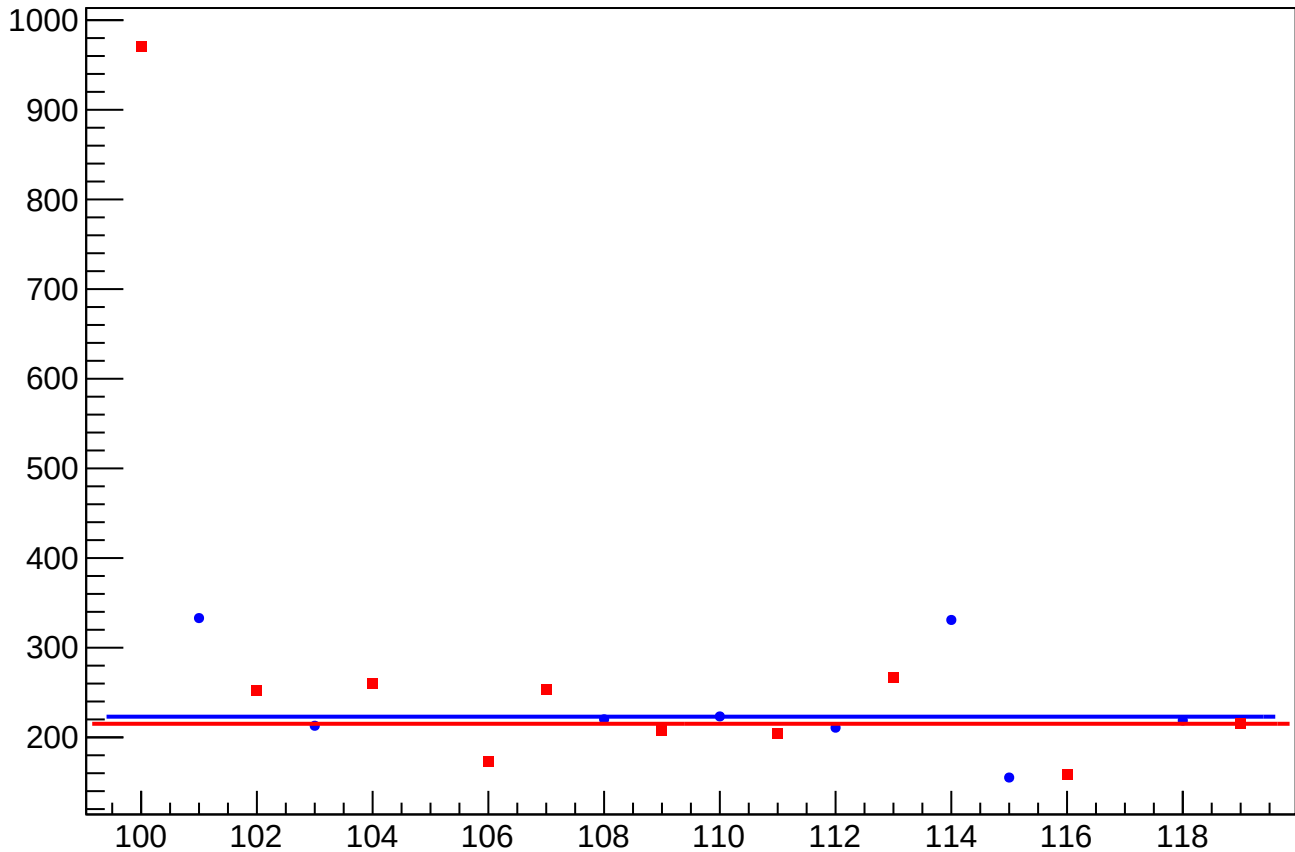
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.086  $\chi^2$ /NDF: 18.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl2\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 223.065+/-0.090  $\chi^2/\text{NDF}$ : 215766.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 215.142+/-0.083  $\chi^2/\text{NDF}$ : 256161.0/9

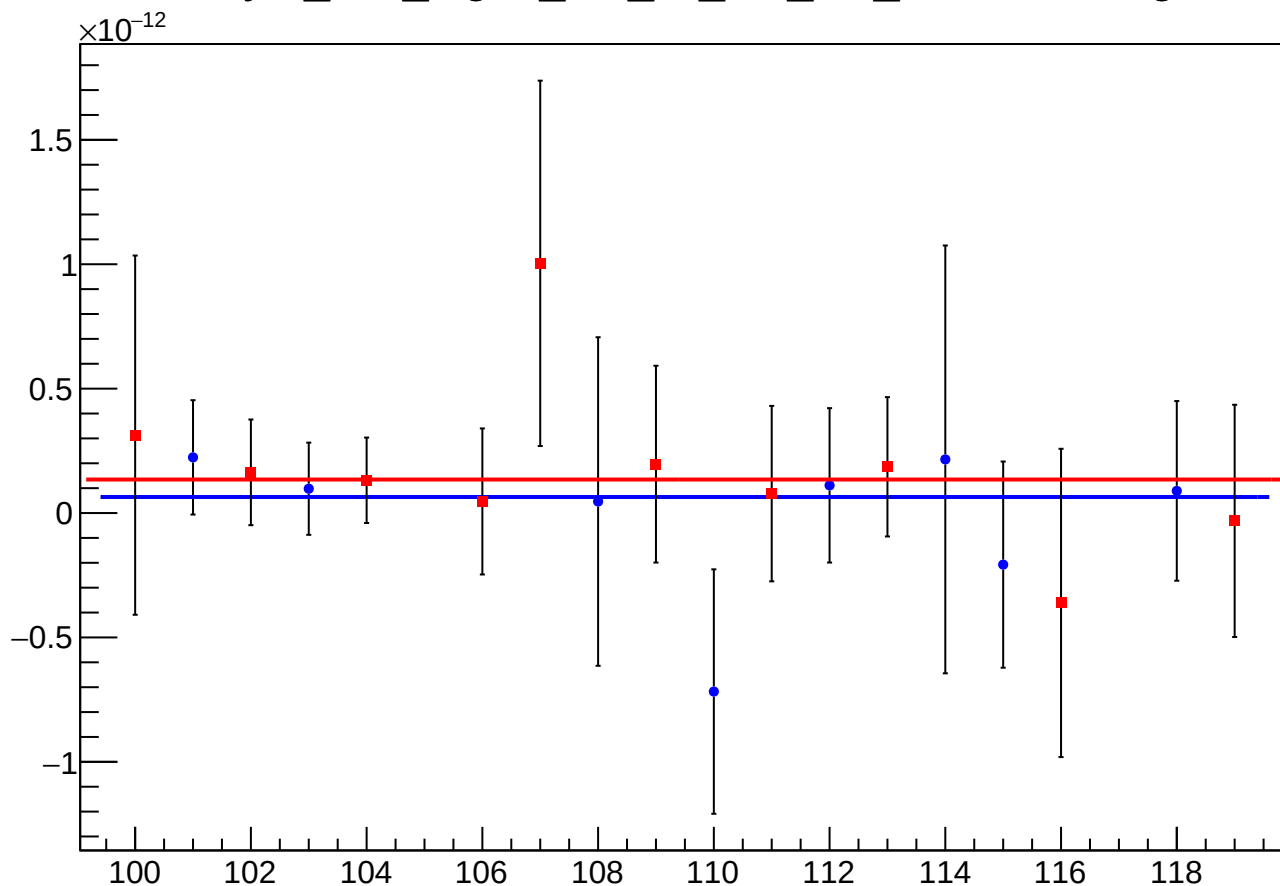
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 218.759+/-0.061  $\chi^2/\text{NDF}$ : 476110.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 3.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 2.4/9

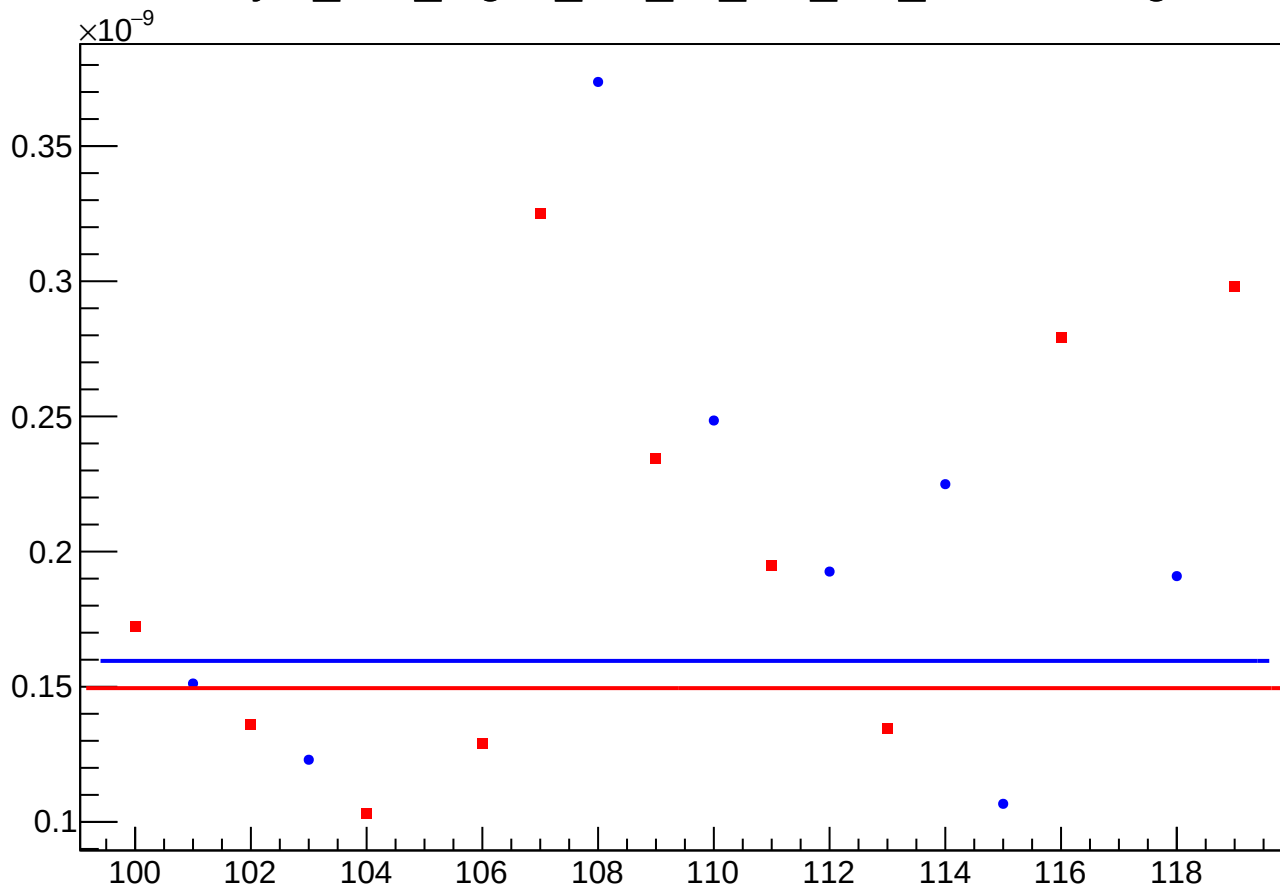
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 6.2/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 438351.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 701123.2/9

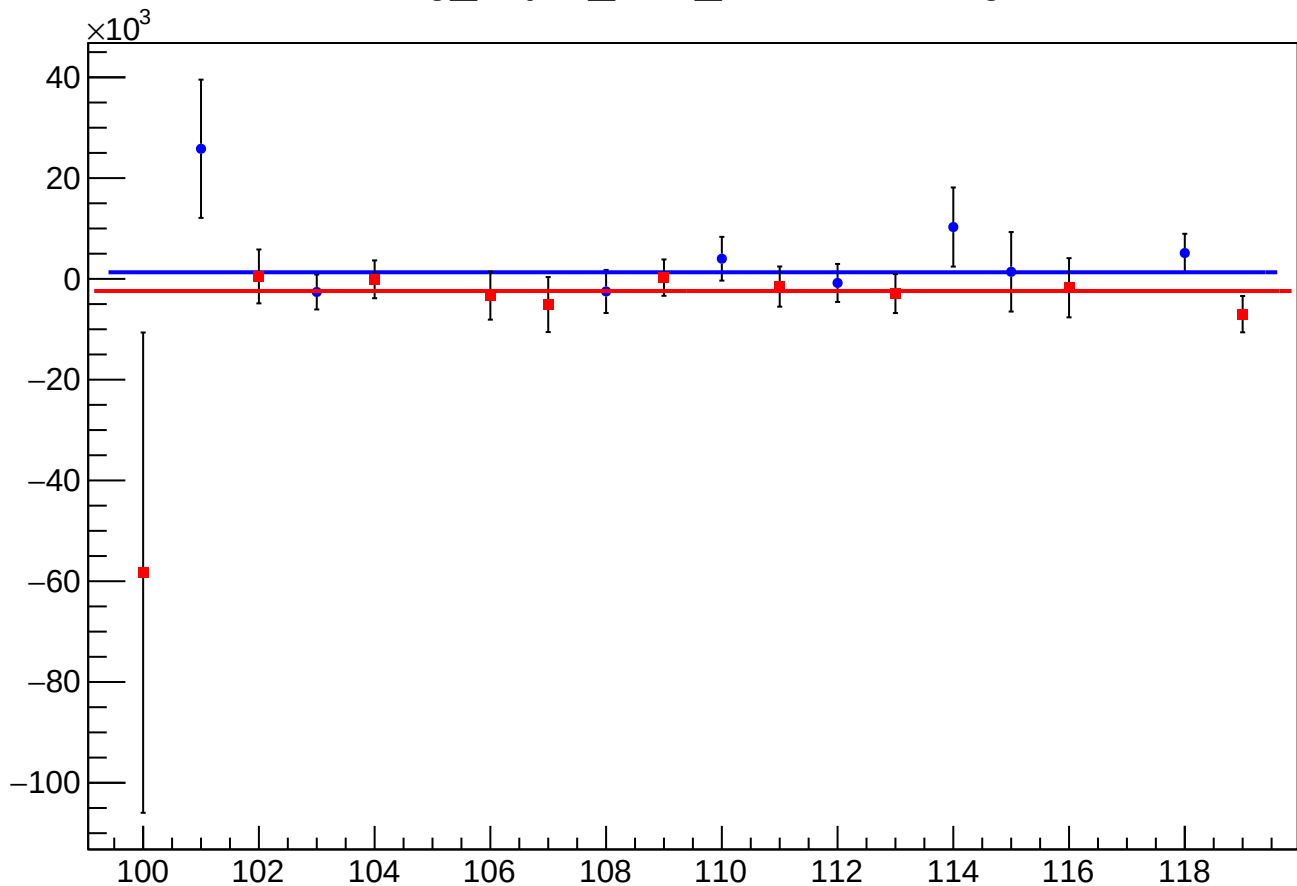
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1148710.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1\_mean vs Slug



Right In: 1312.958 $\pm$ 1650.442  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2403.327 $\pm$ 1418.355  $\chi^2$ /NDF: 4.6/9

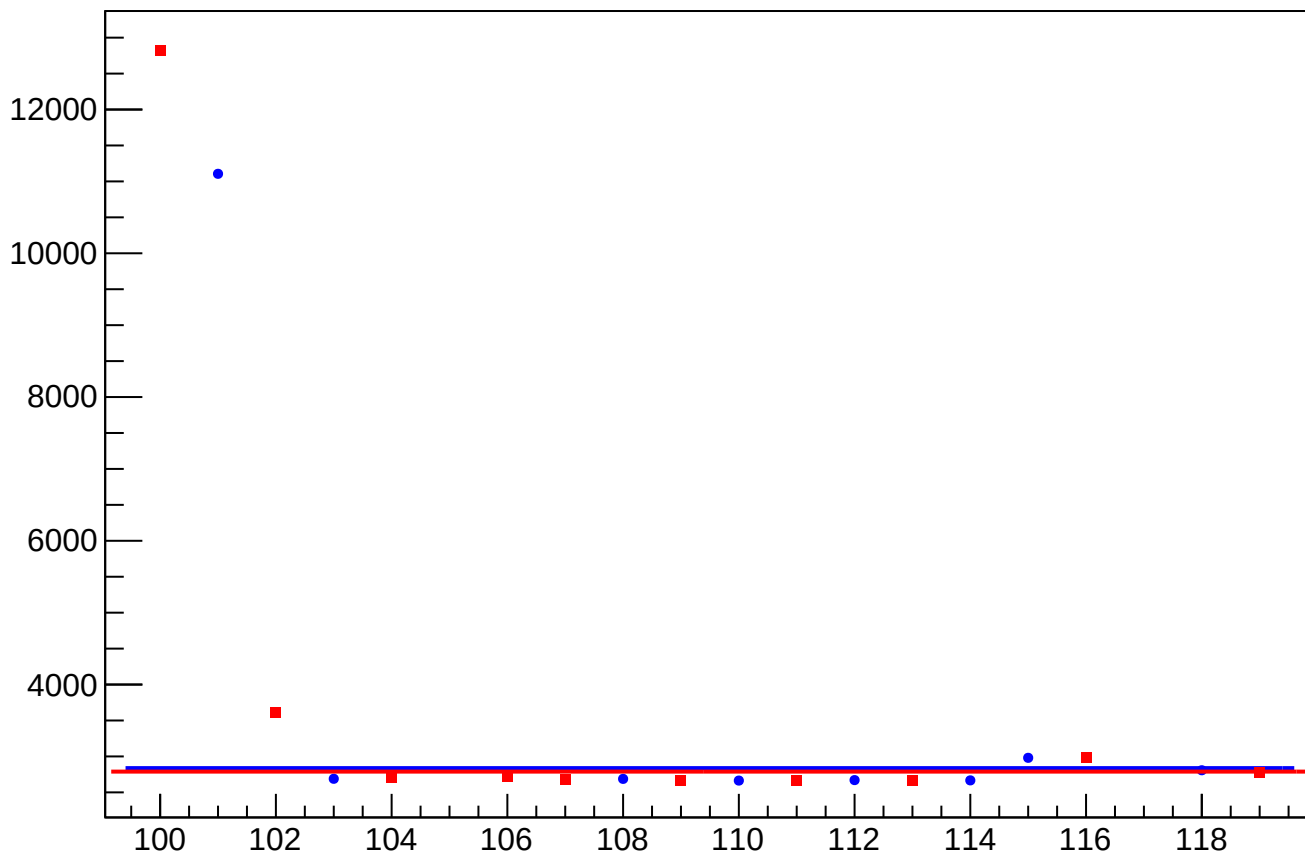
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -824.641 $\pm$ 1075.706  $\chi^2$ /NDF: 15.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1\_rms vs Slug



Right In: 2837.484+/-1.167  $\chi^2/\text{NDF}$ : 741687.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2788.832+/-1.003  $\chi^2/\text{NDF}$ : 146231.6/9

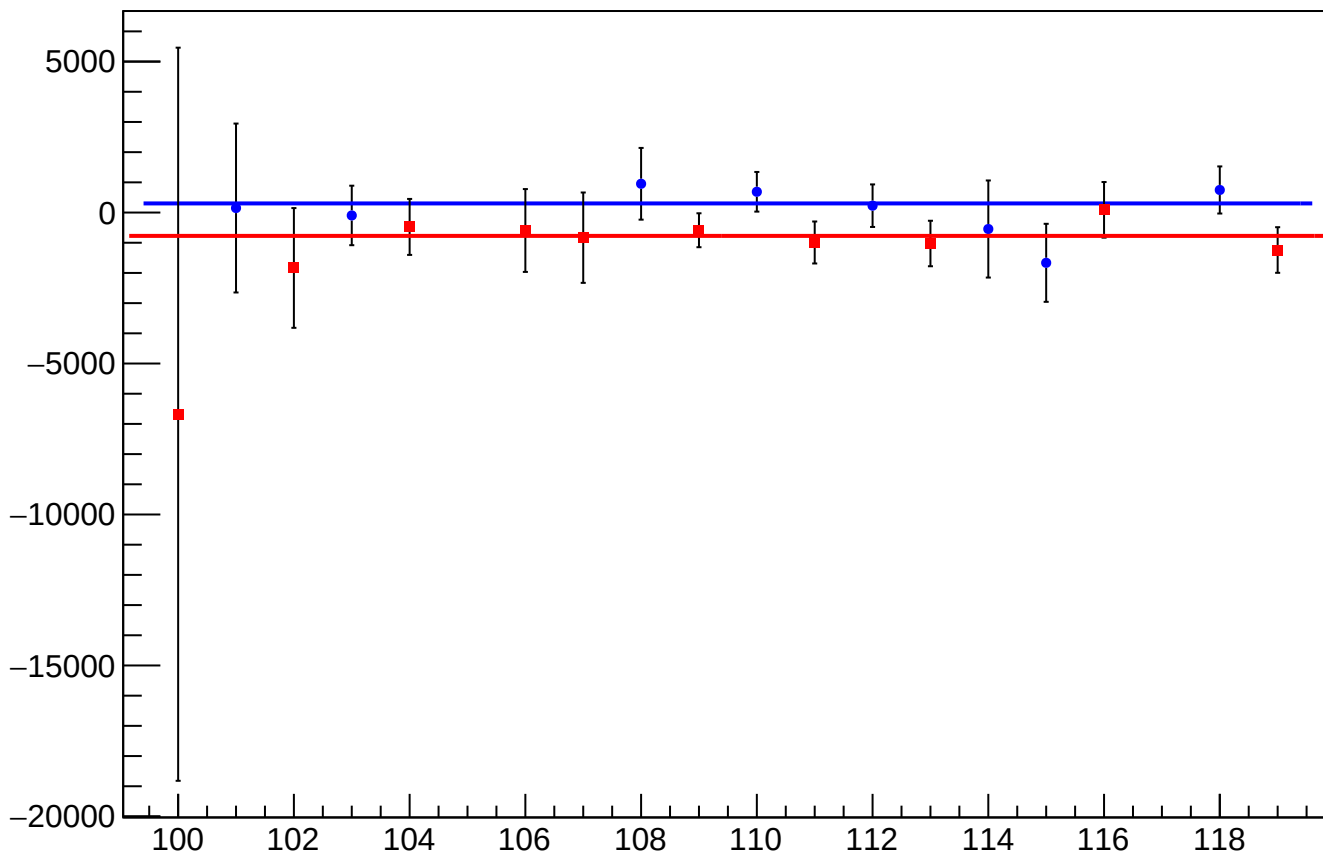
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2809.500+/-0.761  $\chi^2/\text{NDF}$ : 888918.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_reg\_correction\_mean vs Slug



Right In:  $302.187 \pm 336.550$   $\chi^2/\text{NDF}$ : 3.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-773.107 \pm 284.745$   $\chi^2/\text{NDF}$ : 2.2/9

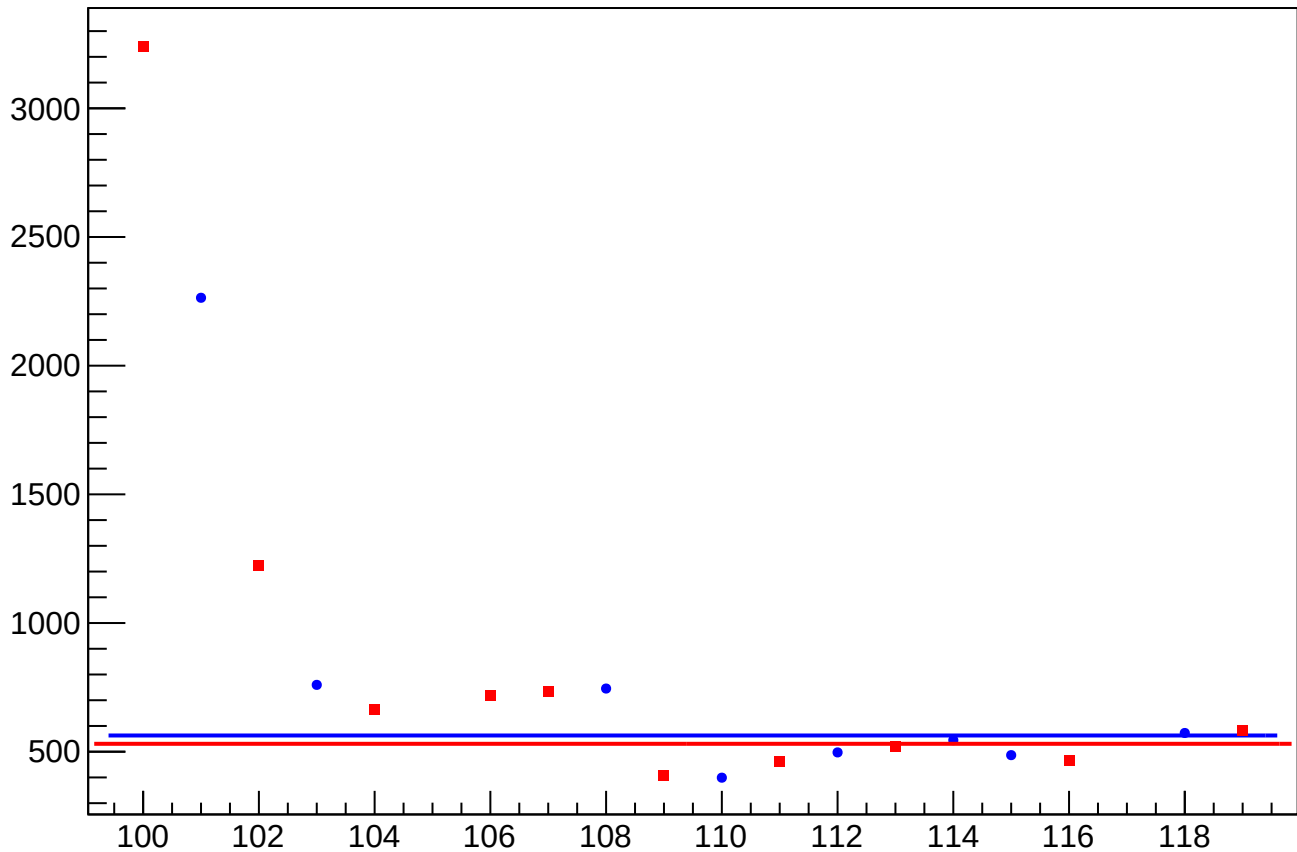
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-324.502 \pm 217.379$   $\chi^2/\text{NDF}$ : 11.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_reg\_correction\_rms vs Slug



Right In:  $563.010 \pm 0.238$   $\chi^2/\text{NDF}$ : 1016033.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $530.677 \pm 0.201$   $\chi^2/\text{NDF}$ : 595956.4/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

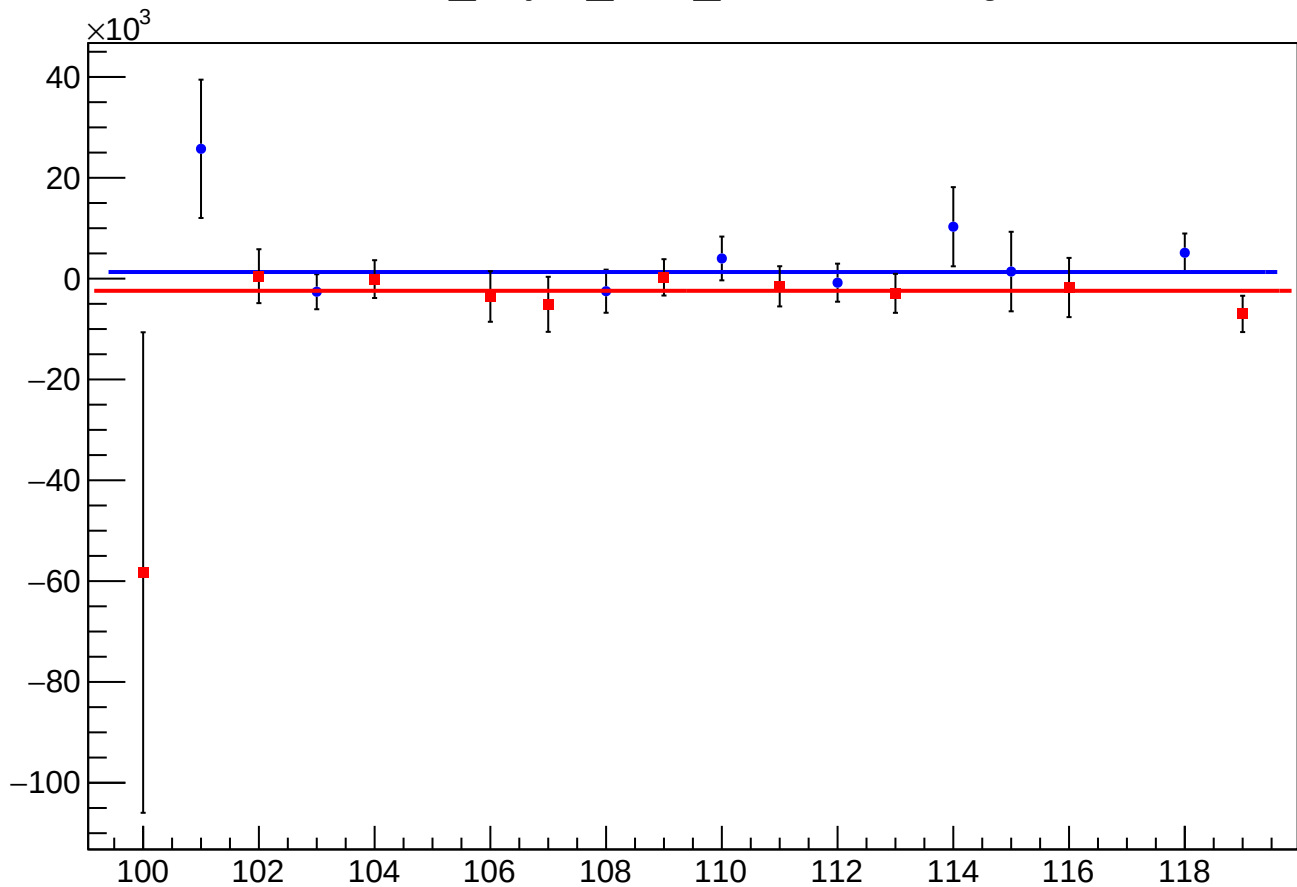
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $544.166 \pm 0.154$   $\chi^2/\text{NDF}$ : 1622748.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atr1\_mean vs Slug



Right In: 1311.507 $\pm$ 1650.443  $\chi^2$ /NDF: 8.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2414.617 $\pm$ 1424.503  $\chi^2$ /NDF: 4.6/9

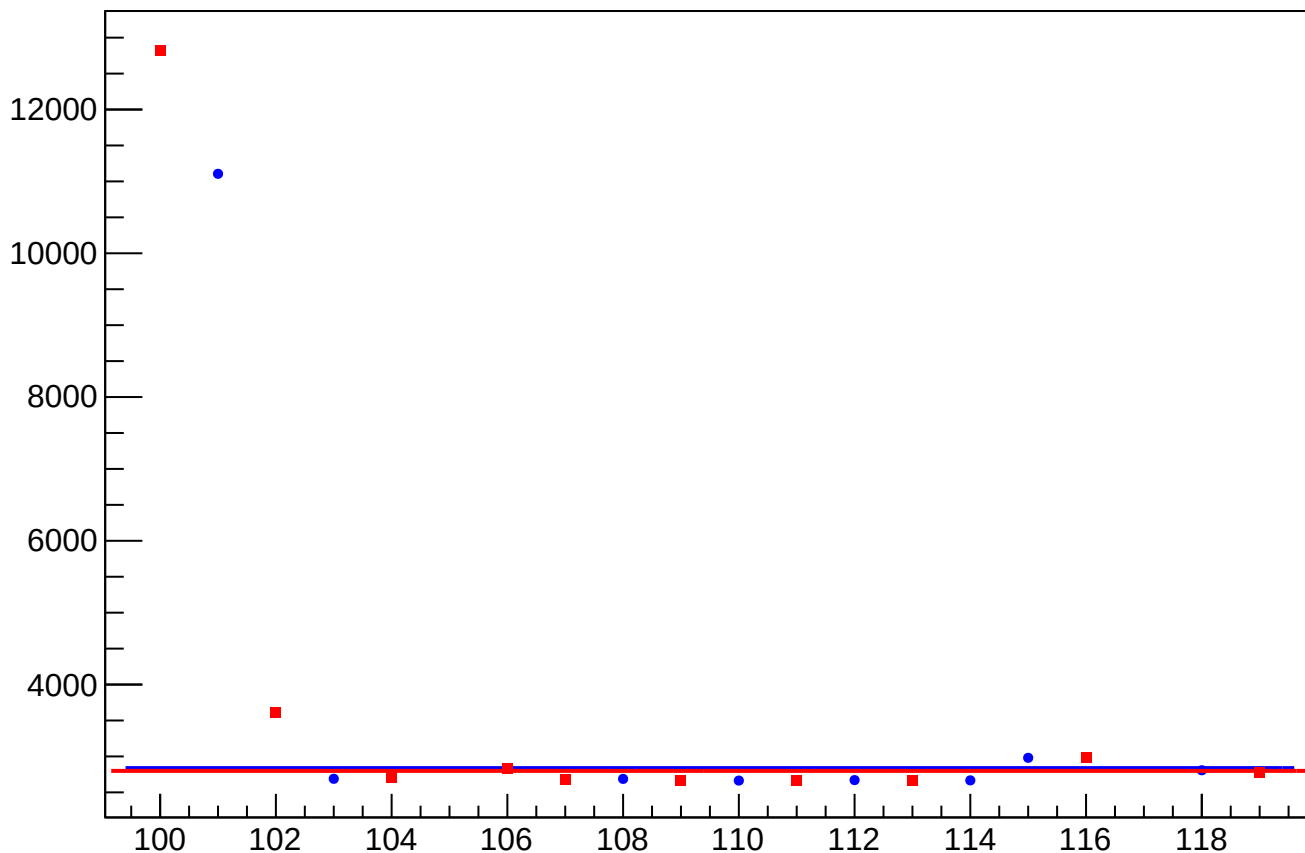
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -823.871 $\pm$ 1078.381  $\chi^2$ /NDF: 15.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atr1\_rms vs Slug



Right In: 2837.484+/-1.167  $\chi^2/\text{NDF}$ : 741686.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2798.886+/-1.007  $\chi^2/\text{NDF}$ : 145930.5/9

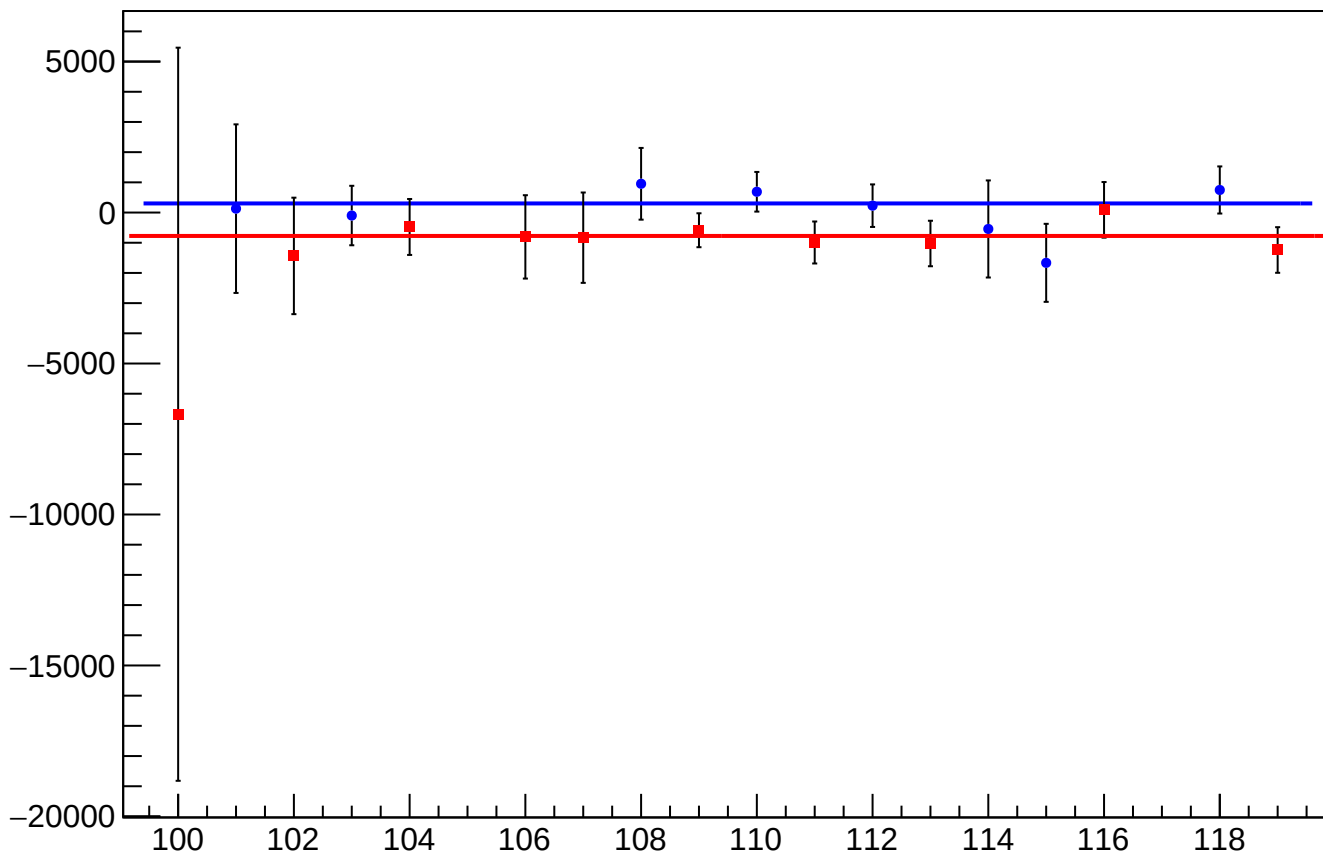
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2815.364+/-0.763  $\chi^2/\text{NDF}$ : 888244.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_cor\_correction\_mean vs Slug



Right In: 301.649 $\pm$ 336.530  $\chi^2$ /NDF: 3.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -774.924 $\pm$ 284.644  $\chi^2$ /NDF: 2.0/9

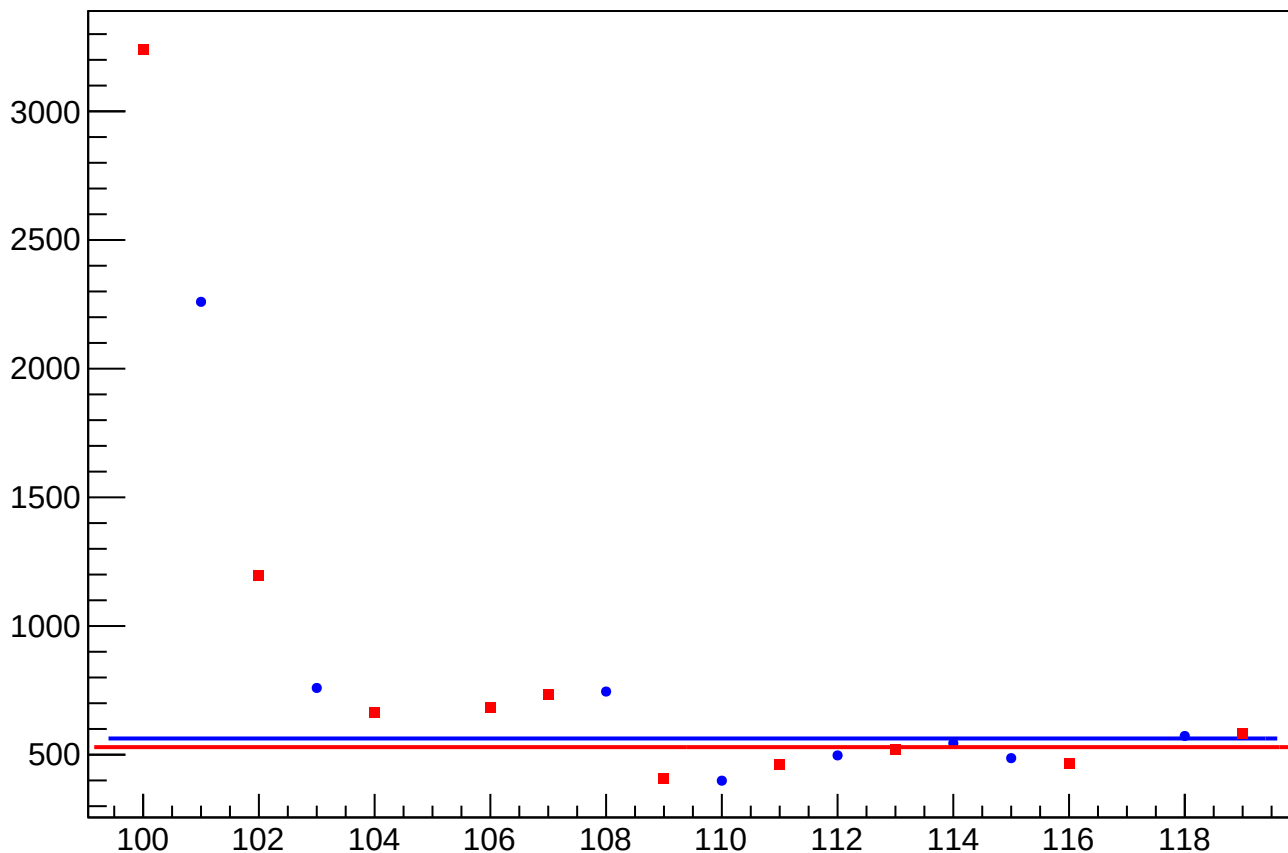
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -325.939 $\pm$ 217.329  $\chi^2$ /NDF: 11.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_cor\_correction\_rms vs Slug



Right In: 563.034+/-0.238  $\chi^2/\text{NDF}$ : 1015030.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 529.404+/-0.201  $\chi^2/\text{NDF}$ : 579208.1/9

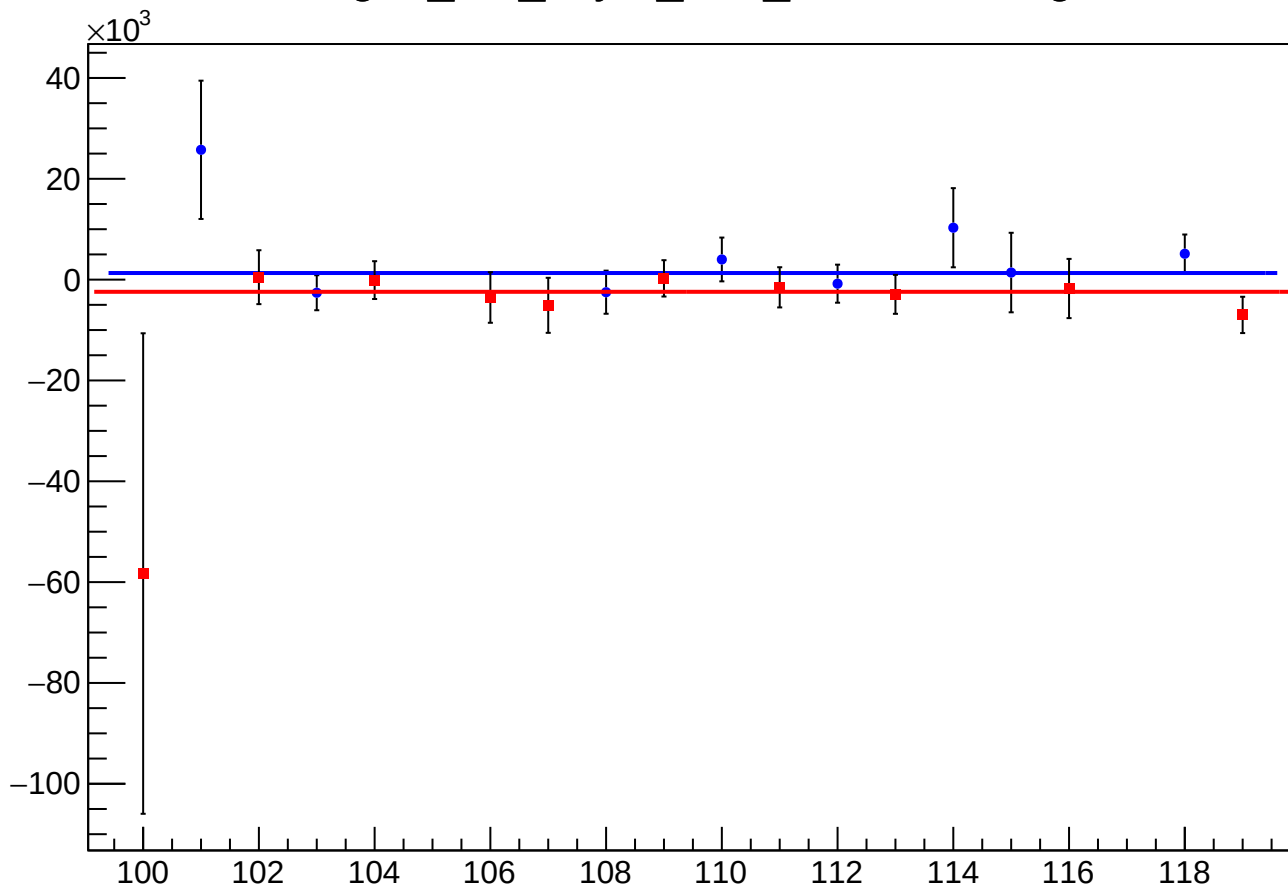
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 543.430+/-0.154  $\chi^2/\text{NDF}$ : 1605881.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr1\_mean vs Slug



Right In:  $1311.507 \pm 1650.443$   $\chi^2/\text{NDF}$ : 8.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2414.617 \pm 1424.503$   $\chi^2/\text{NDF}$ : 4.6/9

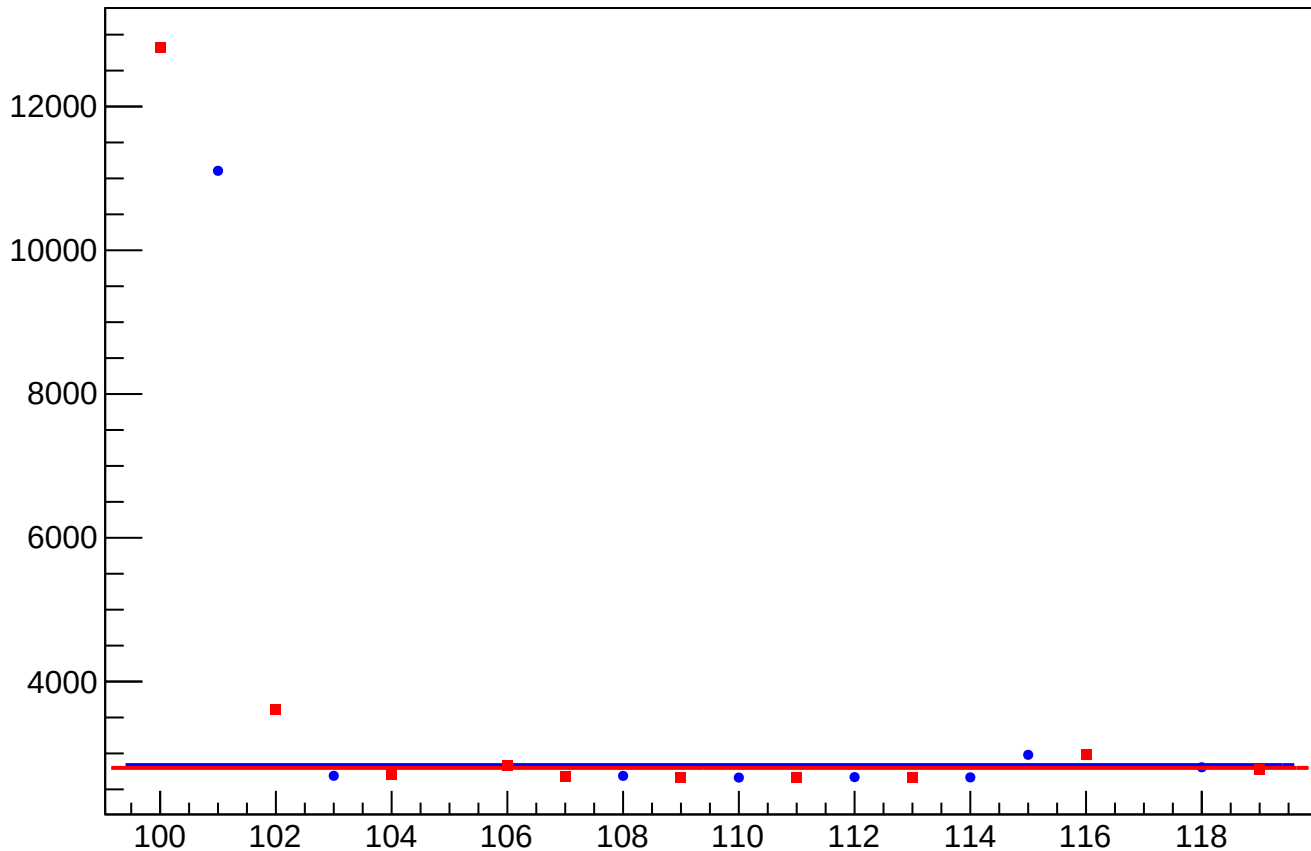
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-823.871 \pm 1078.381$   $\chi^2/\text{NDF}$ : 15.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr1\_rms vs Slug



Right In: 2837.484+/-1.167  $\chi^2/\text{NDF}$ : 741686.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2798.886+/-1.007  $\chi^2/\text{NDF}$ : 145930.5/9

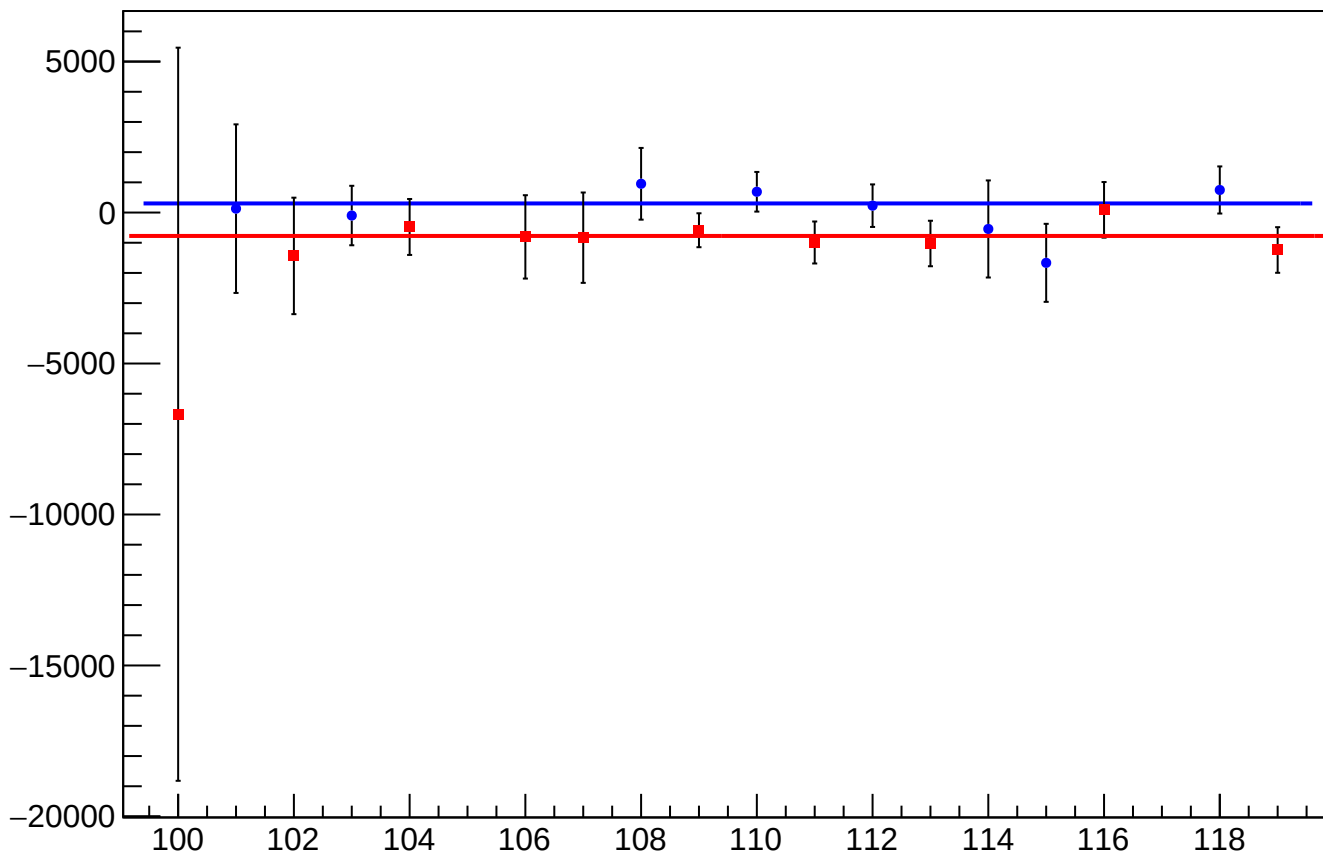
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2815.364+/-0.763  $\chi^2/\text{NDF}$ : 888244.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_cor\_correction\_mean vs Slug



Right In: 301.649 $\pm$ 336.530  $\chi^2$ /NDF: 3.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -774.924 $\pm$ 284.644  $\chi^2$ /NDF: 2.0/9

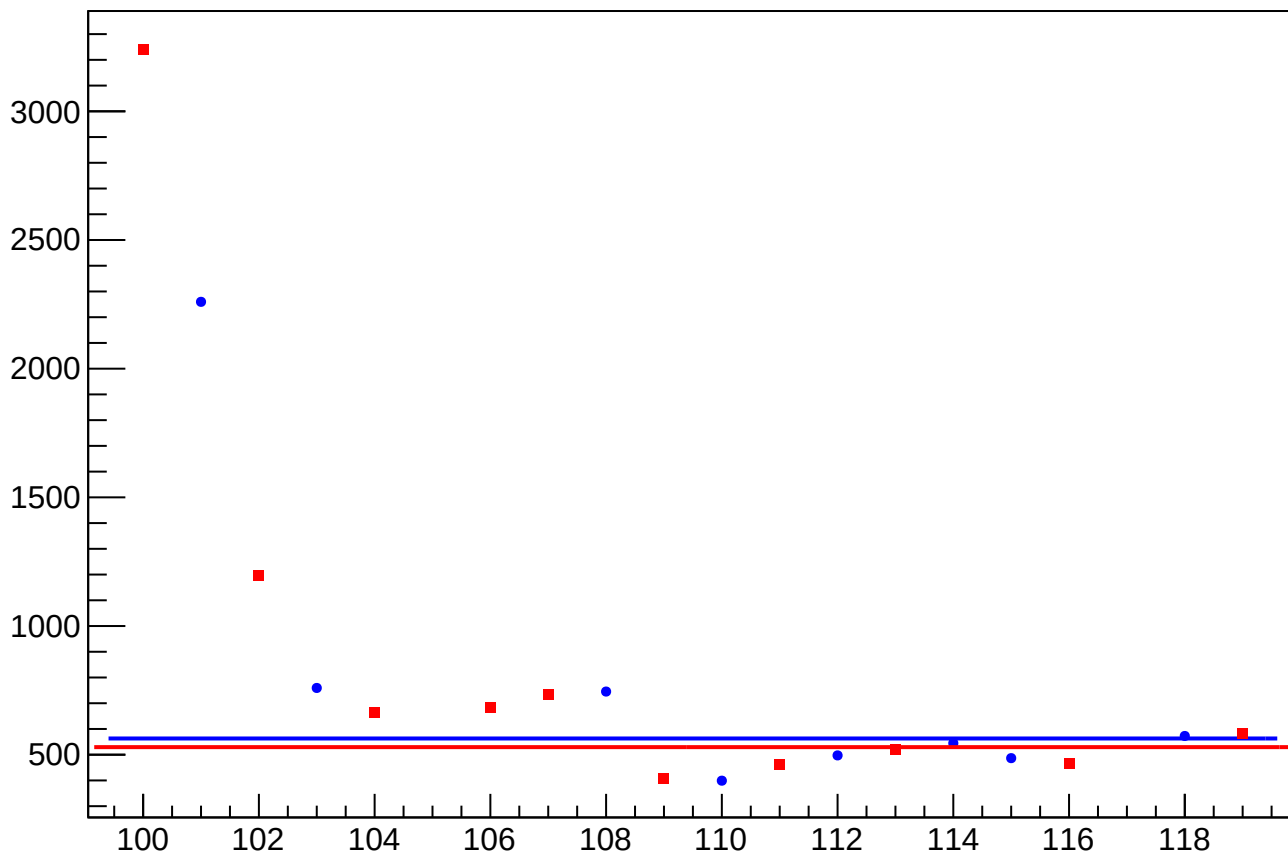
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -325.939 $\pm$ 217.329  $\chi^2$ /NDF: 11.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_eigen\_cor\_correction\_rms vs Slug



Right In: 563.034 $\pm$ 0.238  $\chi^2$ /NDF: 1015030.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 529.404 $\pm$ 0.201  $\chi^2$ /NDF: 579208.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

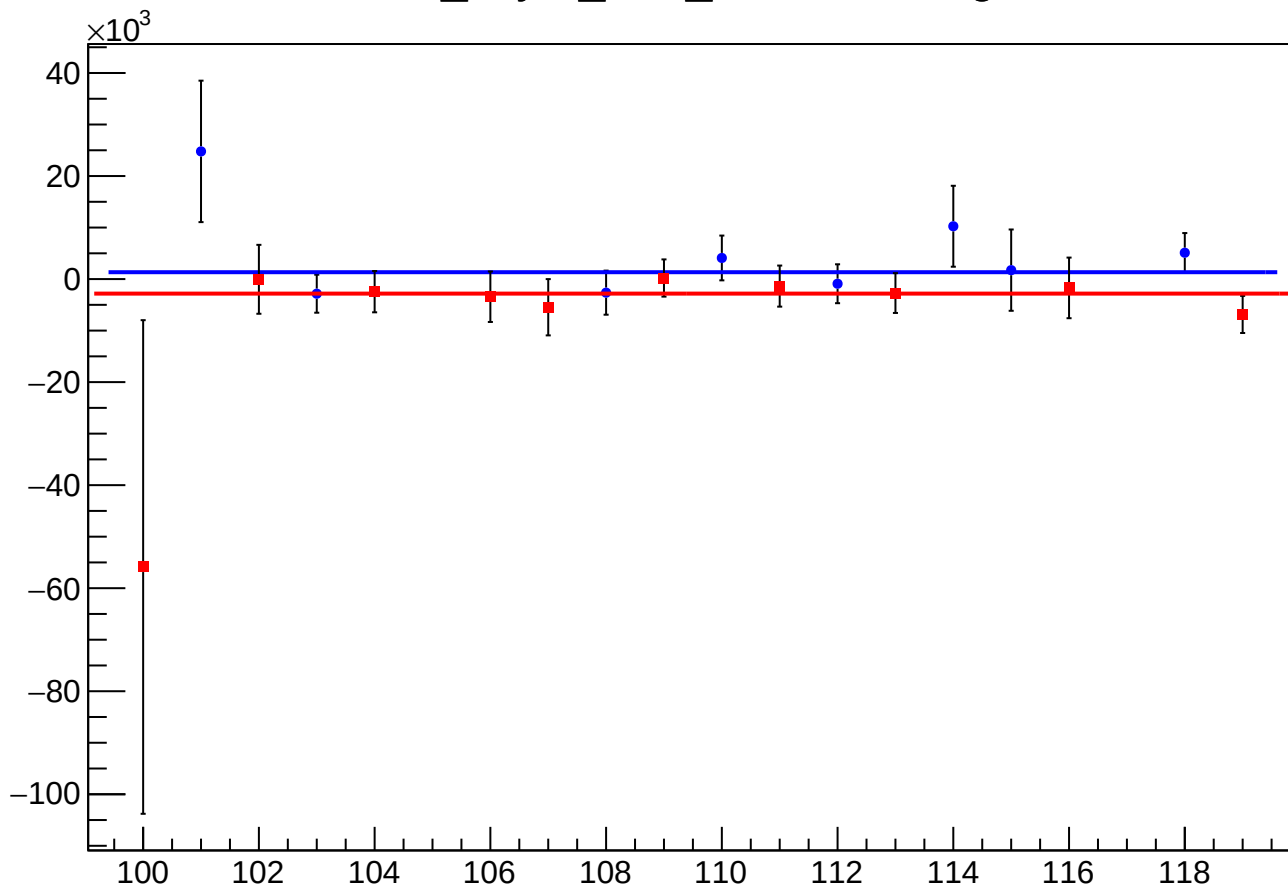
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 543.430 $\pm$ 0.154  $\chi^2$ /NDF: 1605881.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# dit\_asym\_atr1\_mean vs Slug



Right In: 1333.148 $\pm$ 1673.151  $\chi^2$ /NDF: 8.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2820.879 $\pm$ 1454.527  $\chi^2$ /NDF: 3.8/9

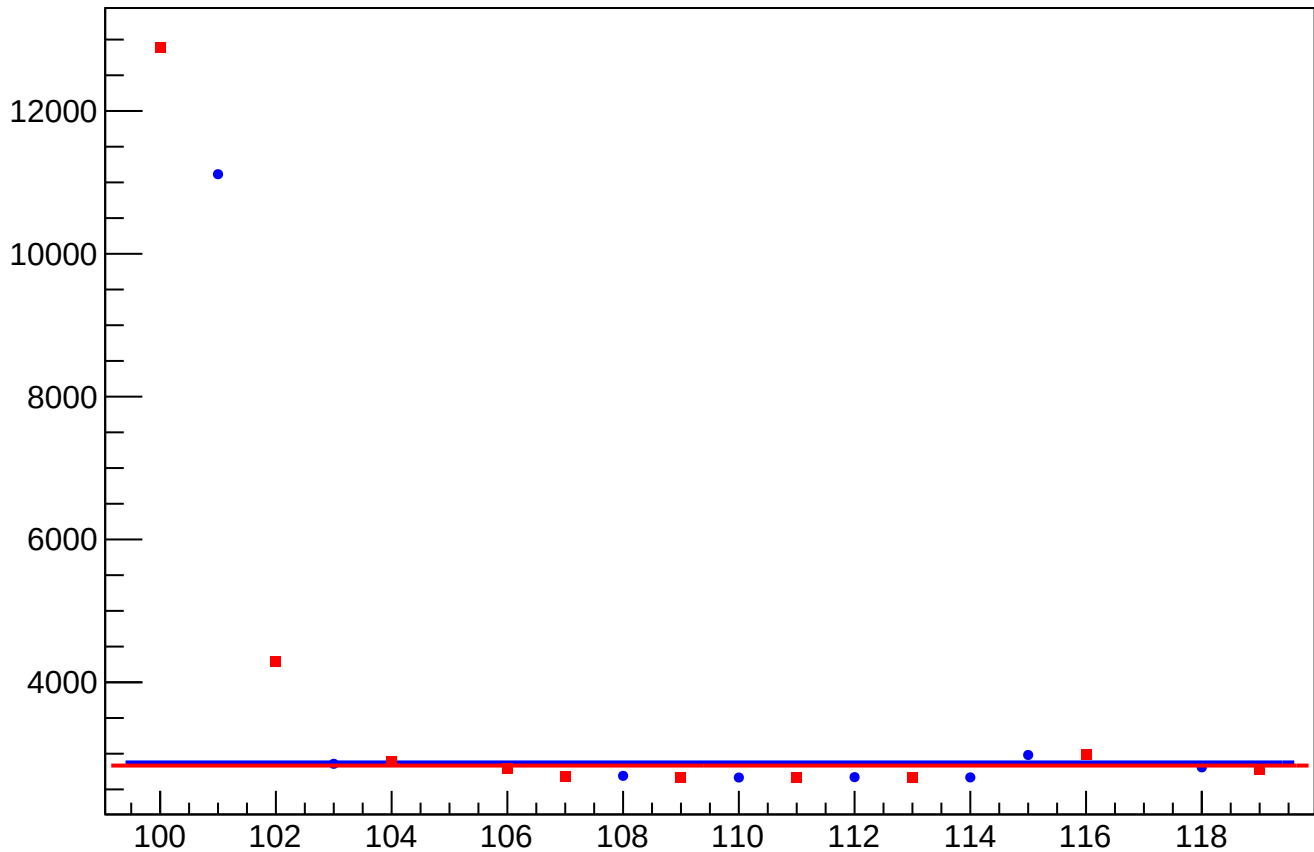
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1032.819 $\pm$ 1097.719  $\chi^2$ /NDF: 15.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atr1\_rms vs Slug



Right In: 2877.596 $\pm$ 1.183  $\chi^2$ /NDF: 737099.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2833.885 $\pm$ 1.029  $\chi^2$ /NDF: 199055.5/9

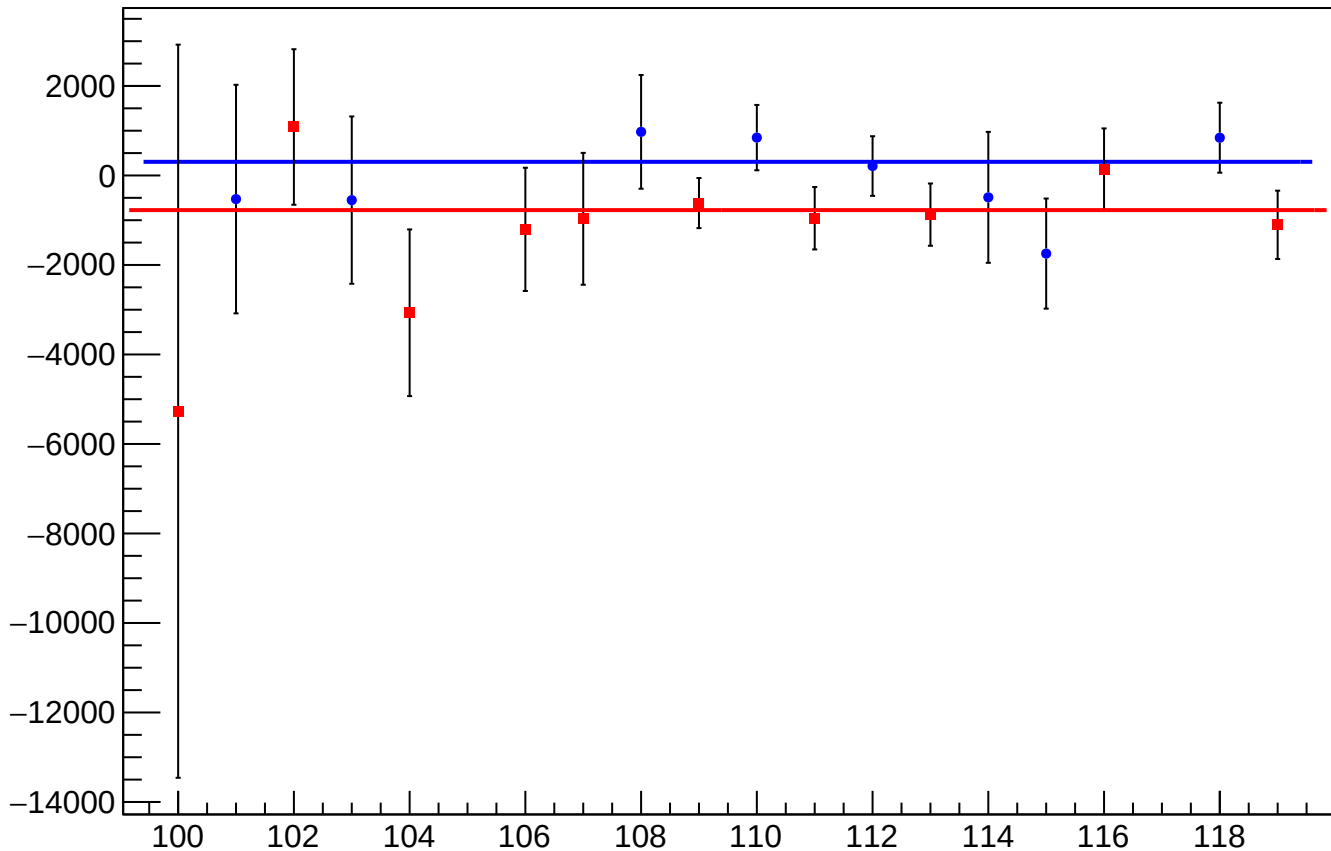
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2852.700 $\pm$ 0.776  $\chi^2$ /NDF: 936932.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_dit\_correction\_mean vs Slug



Right In: 304.764 $\pm$ 354.627  $\chi^2$ /NDF: 4.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -774.394 $\pm$ 290.693  $\chi^2$ /NDF: 4.4/9

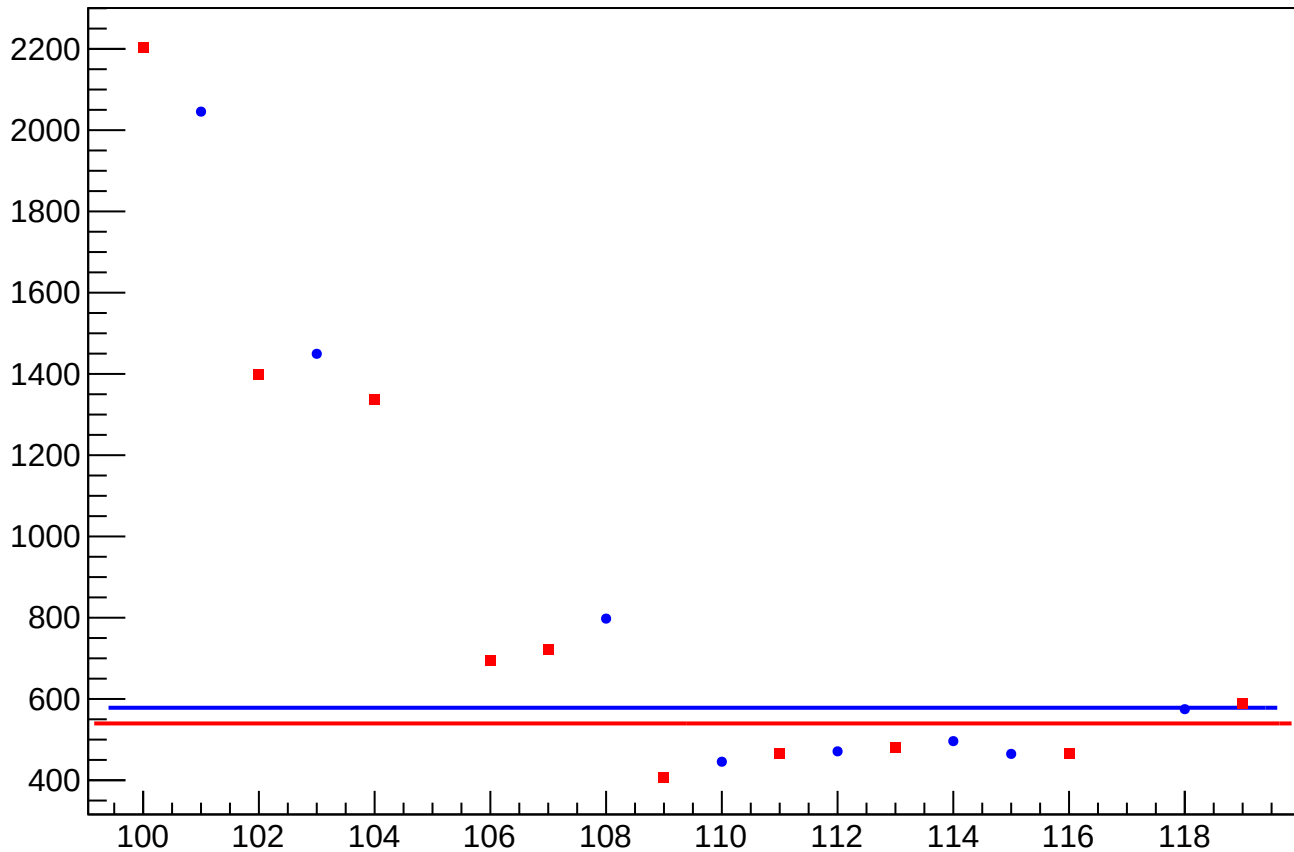
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -340.692 $\pm$ 224.815  $\chi^2$ /NDF: 14.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_dit\_correction\_rms vs Slug



Right In: 578.396 $\pm$ 0.251  $\chi^2$ /NDF: 1295359.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 539.799 $\pm$ 0.206  $\chi^2$ /NDF: 1164953.1/9

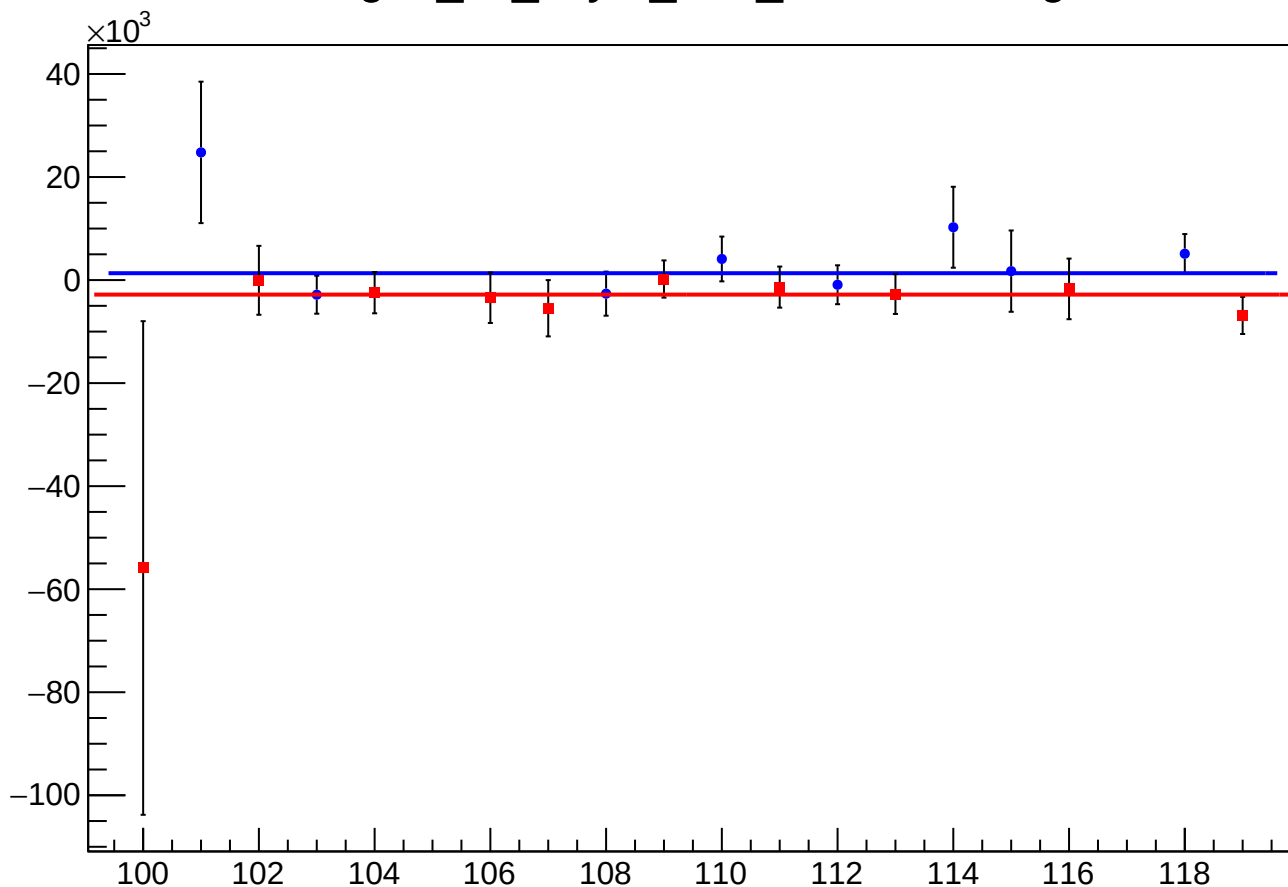
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 555.311 $\pm$ 0.159  $\chi^2$ /NDF: 2474482.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atr1\_mean vs Slug



Right In: 1333.149 $\pm$ 1673.150  $\chi^2$ /NDF: 8.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2820.876 $\pm$ 1454.526  $\chi^2$ /NDF: 3.8/9

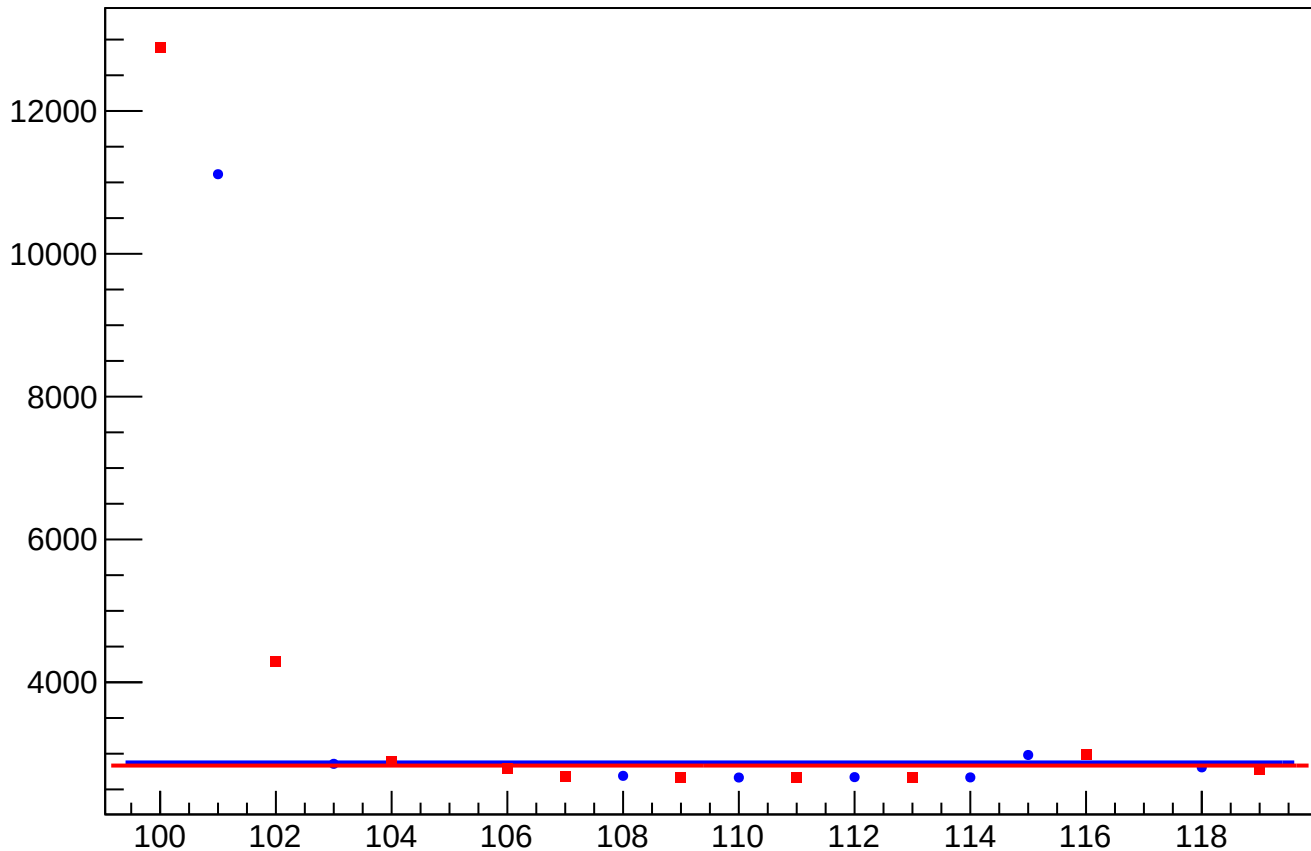
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1032.817 $\pm$ 1097.719  $\chi^2$ /NDF: 15.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atr1\_rms vs Slug



Right In: 2877.596+/-1.183  $\chi^2/\text{NDF}$ : 737099.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2833.884+/-1.029  $\chi^2/\text{NDF}$ : 199055.3/9

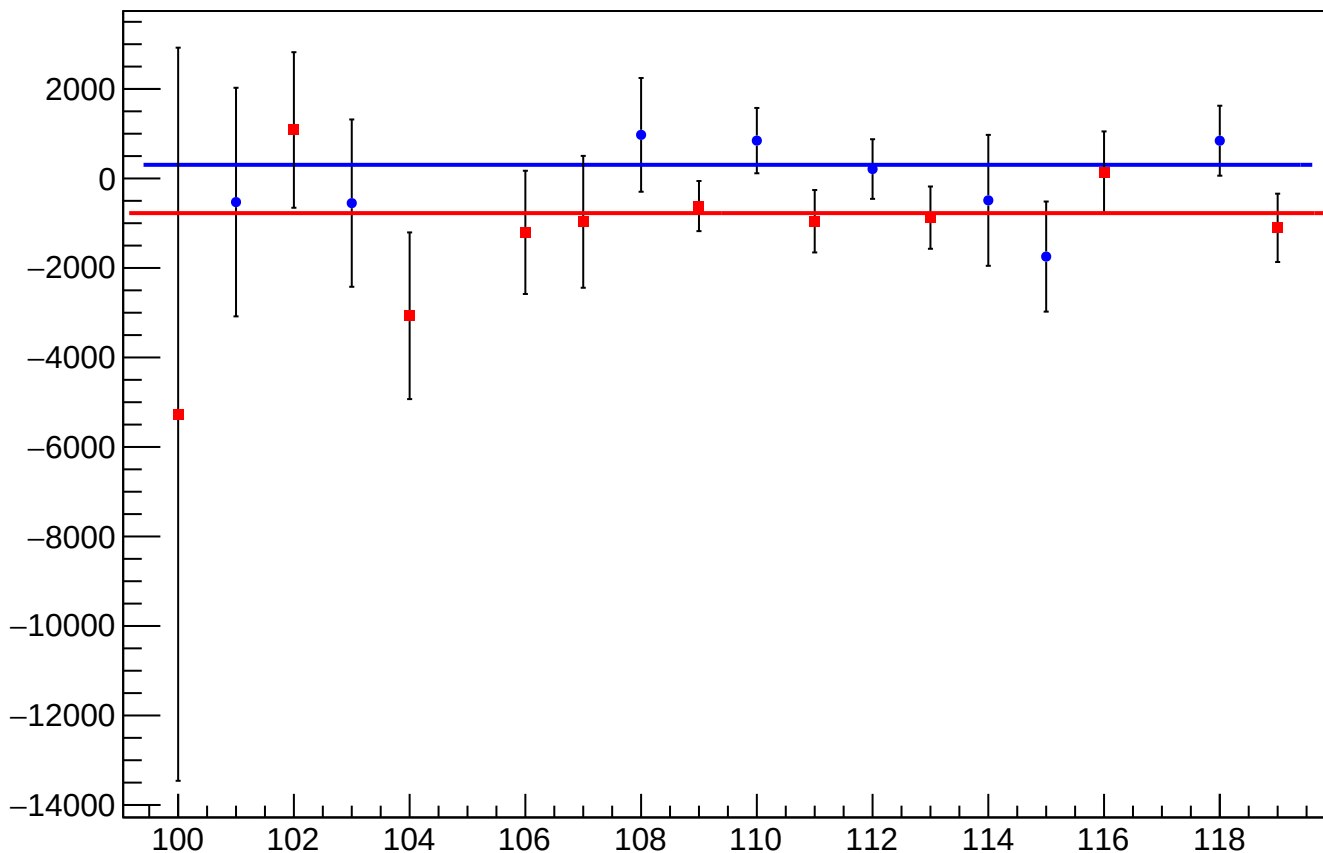
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2852.700+/-0.776  $\chi^2/\text{NDF}$ : 936932.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_dit\_correction\_mean vs Slug



Right In: 304.766+/-354.628  $\chi^2$ /NDF: 4.7/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -774.394+/-290.693  $\chi^2$ /NDF: 4.4/9

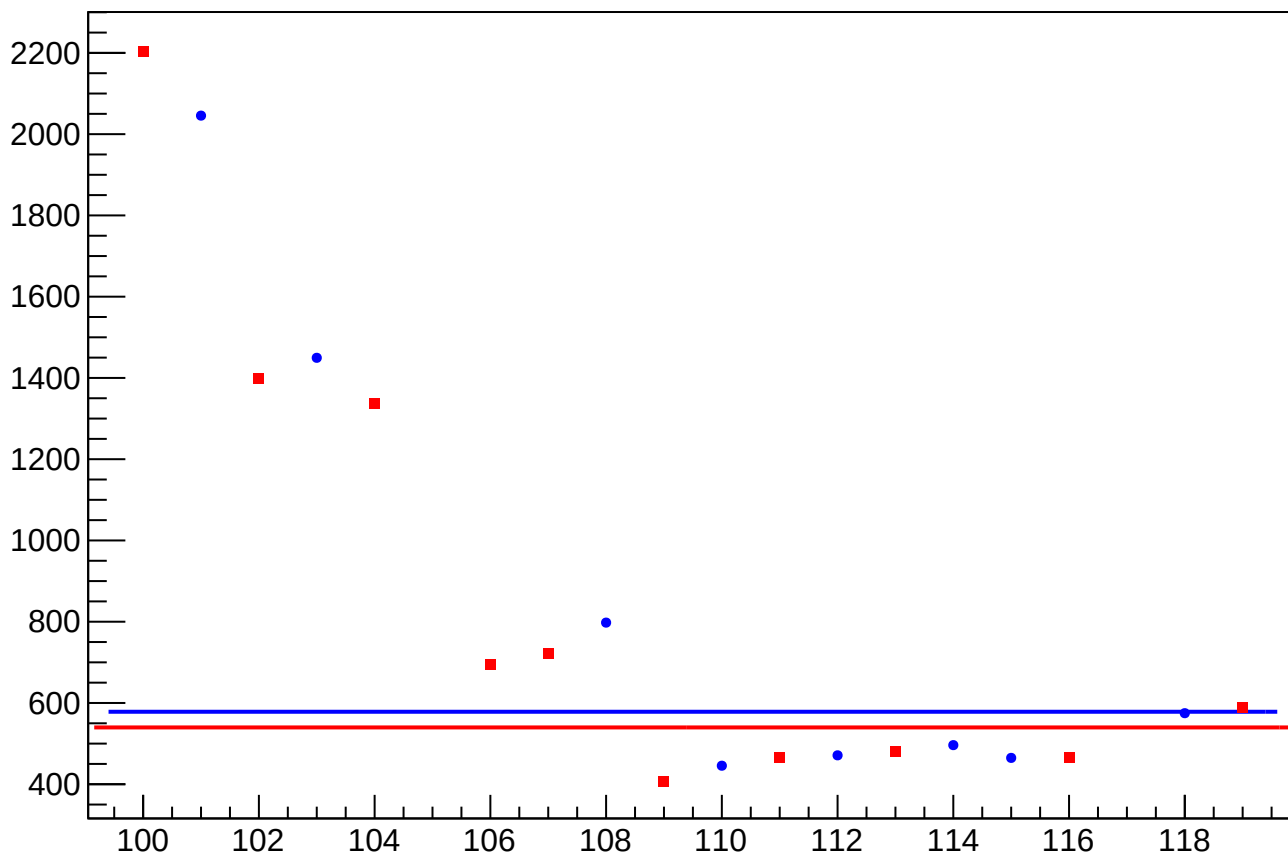
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -340.692+/-224.815  $\chi^2$ /NDF: 14.7/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_eigen\_dit\_correction\_rms vs Slug



Right In: 578.397+/-0.251  $\chi^2/\text{NDF}$ : 1295352.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 539.799+/-0.206  $\chi^2/\text{NDF}$ : 1164948.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

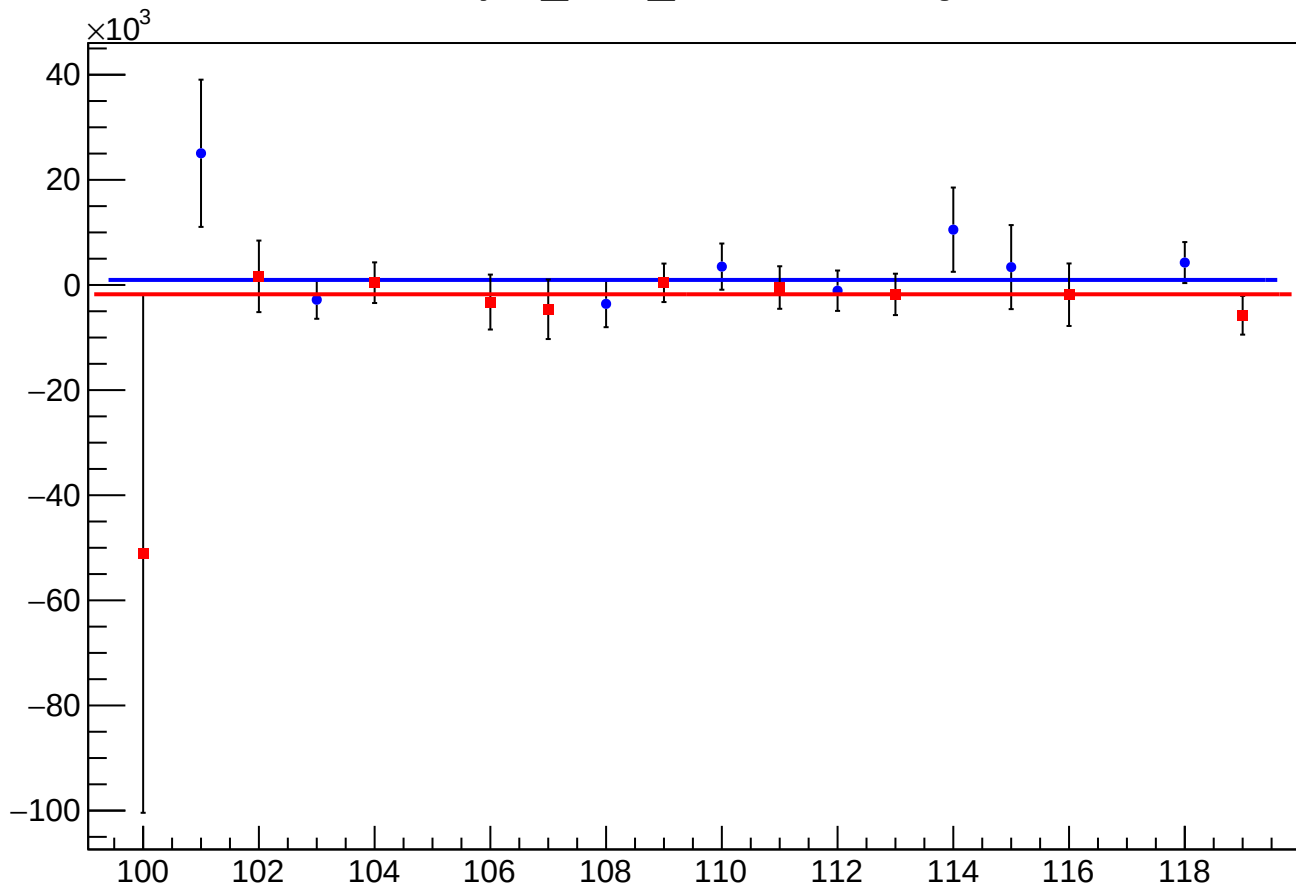
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 555.312+/-0.159  $\chi^2/\text{NDF}$ : 2474471.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atr1\_mean vs Slug



Right In: 960.625+/-1693.585  $\chi^2/\text{NDF}$ : 7.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1768.677+/-1476.225  $\chi^2/\text{NDF}$ : 3.5/9

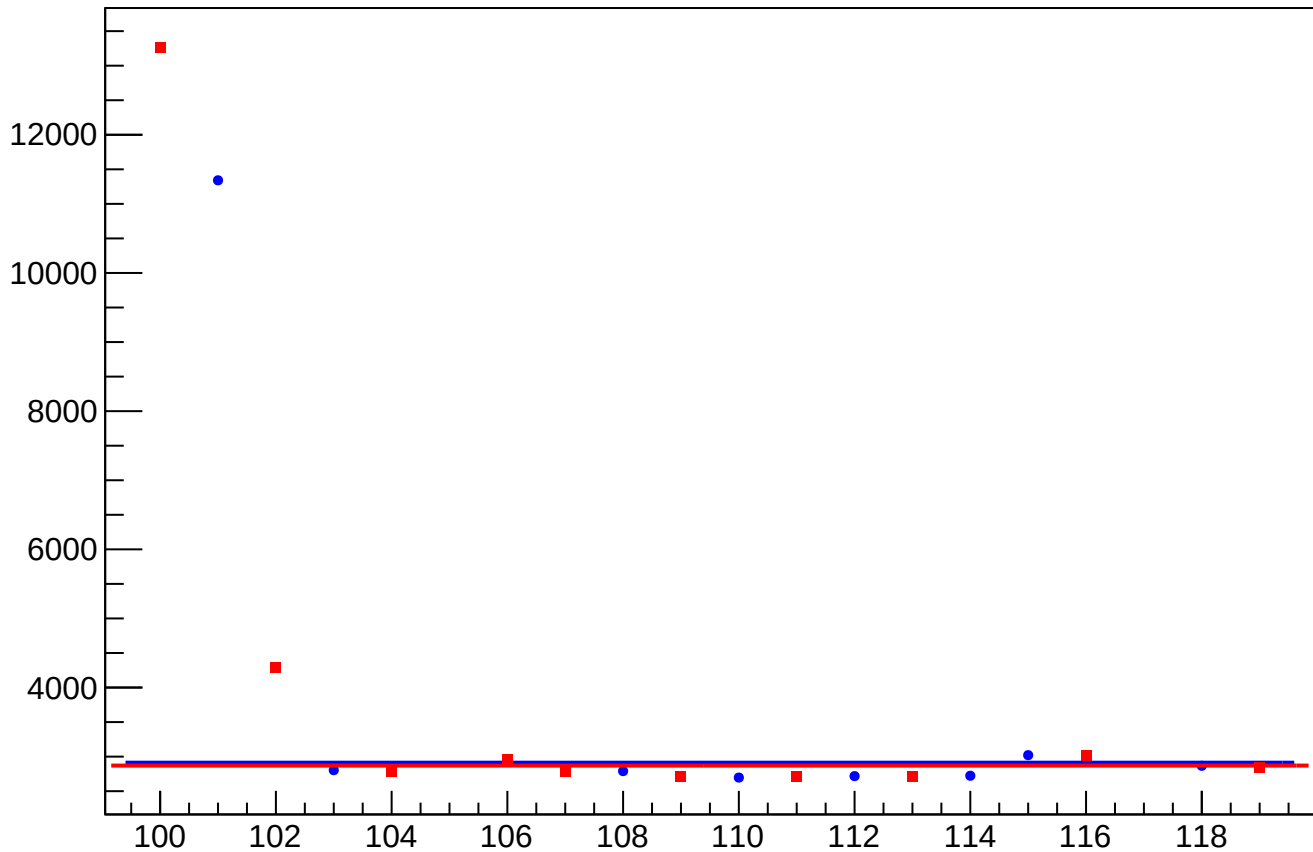
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -590.303+/-1112.814  $\chi^2/\text{NDF}$ : 13.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_rms vs Slug



Right In: 2912.392 $\pm$ 1.198  $\chi^2$ /NDF: 739299.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2870.737 $\pm$ 1.044  $\chi^2$ /NDF: 190135.0/9

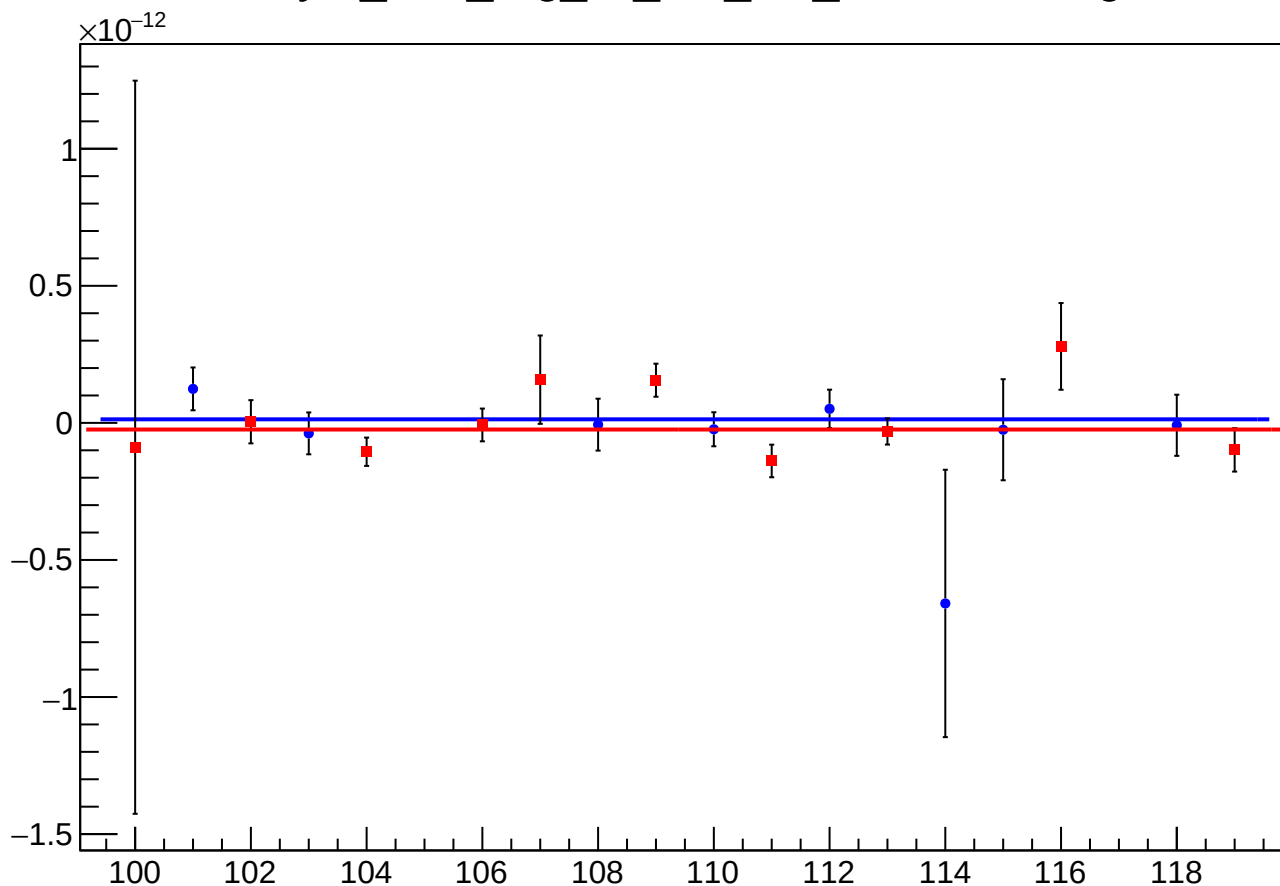
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2888.722 $\pm$ 0.787  $\chi^2$ /NDF: 930122.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 21.1/9

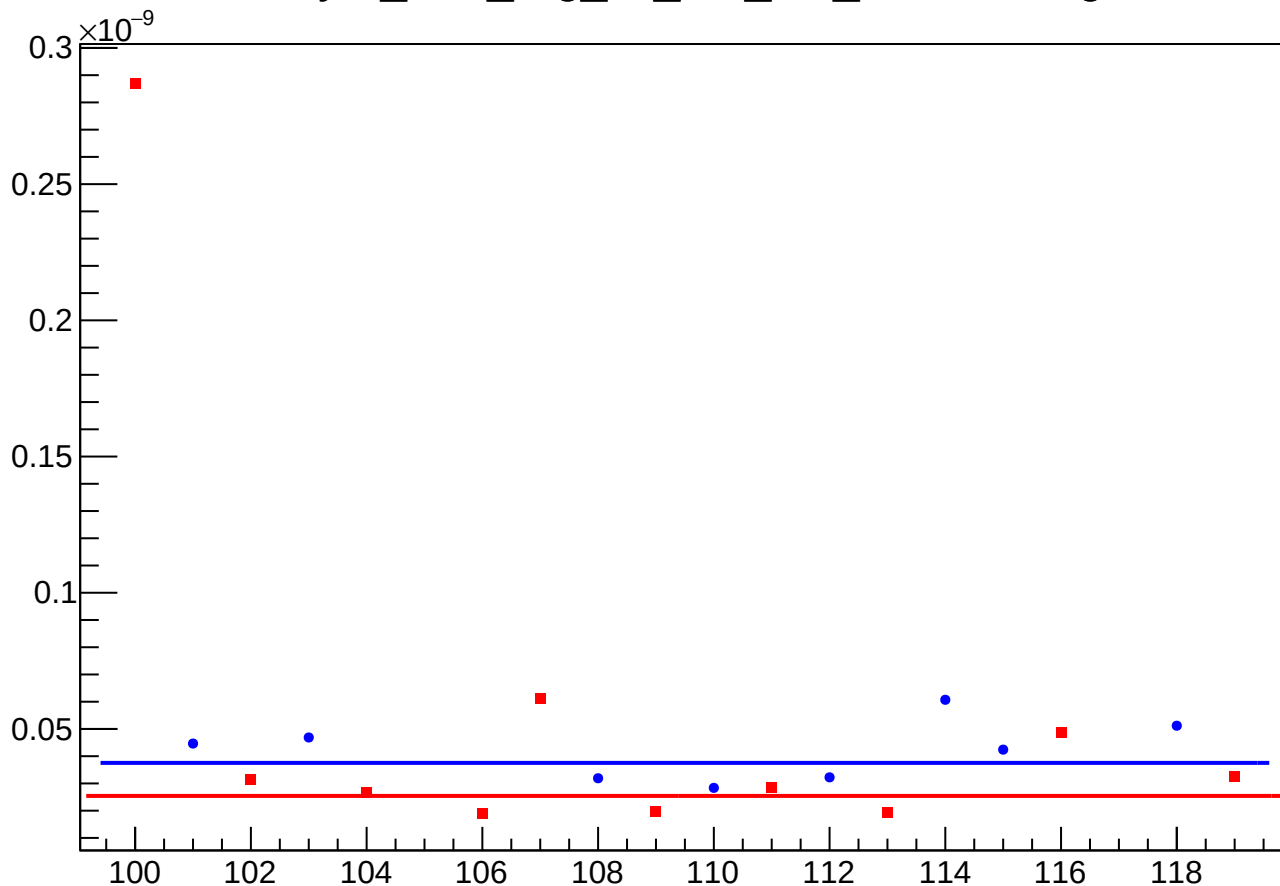
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 27.2/17

- 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  $\chi^2$ /NDF: 144435.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 326771.3/9

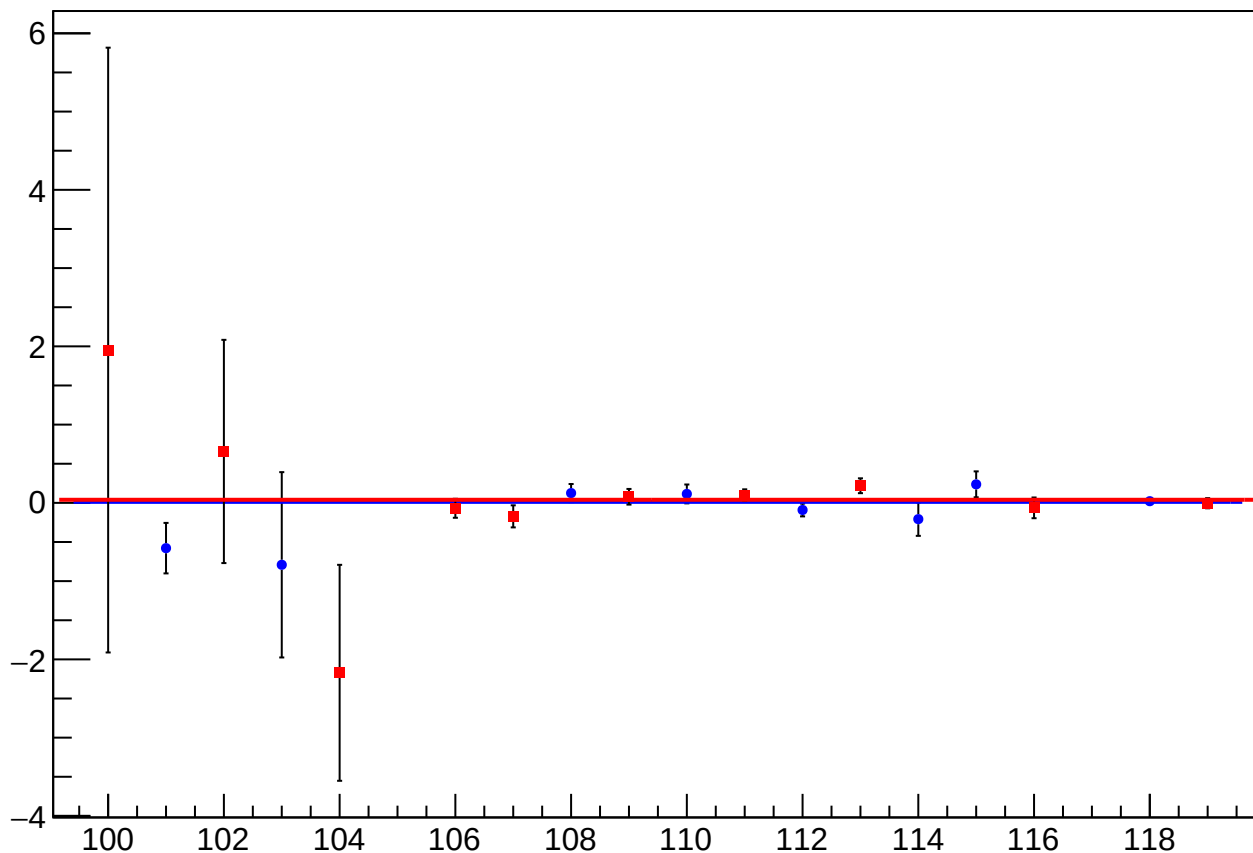
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 672258.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.037  $\chi^2$ /NDF: 10.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.039 $\pm$ 0.035  $\chi^2$ /NDF: 11.5/9

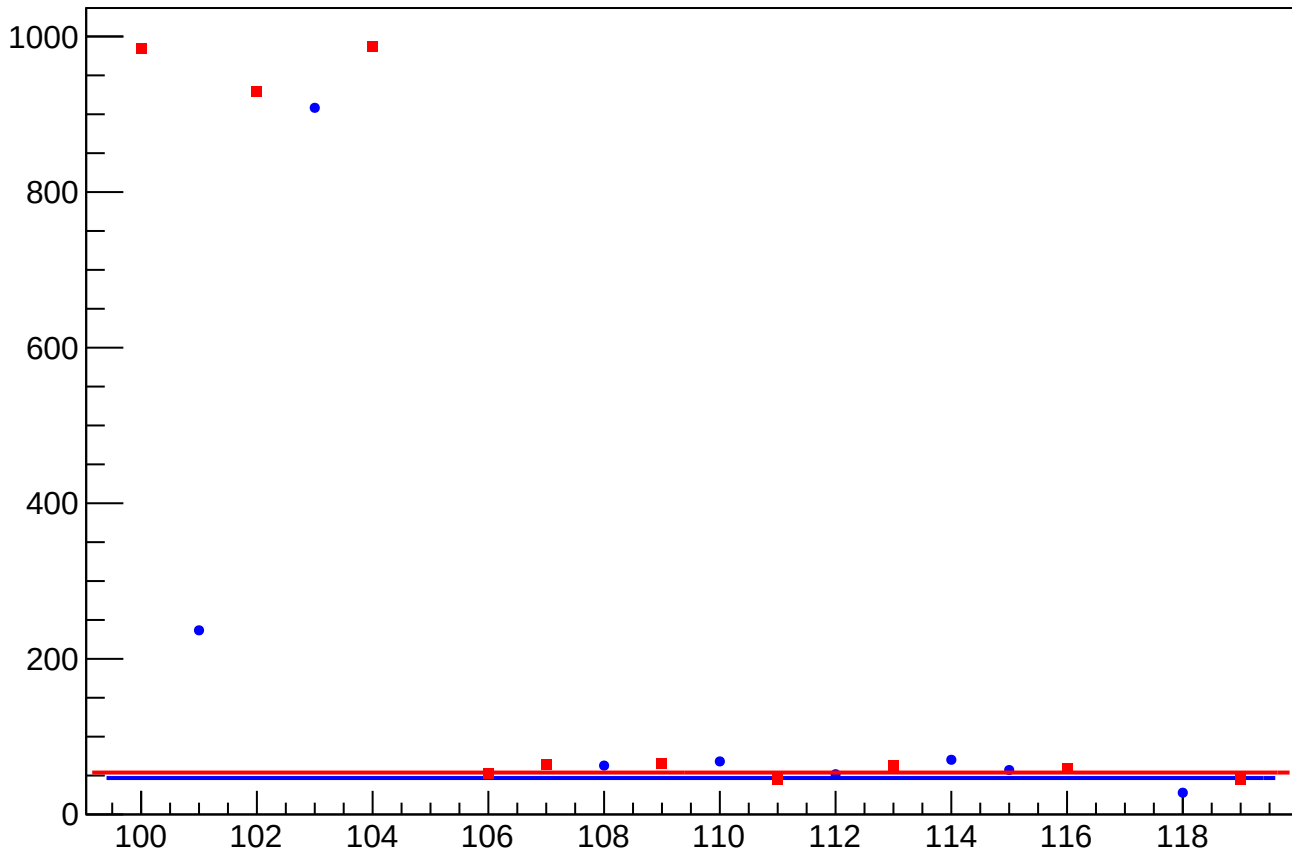
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.026  $\chi^2$ /NDF: 21.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 46.796+/-0.026  $\chi^2/\text{NDF}$ : 2145630.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.865+/-0.025  $\chi^2/\text{NDF}$ : 1918484.2/9

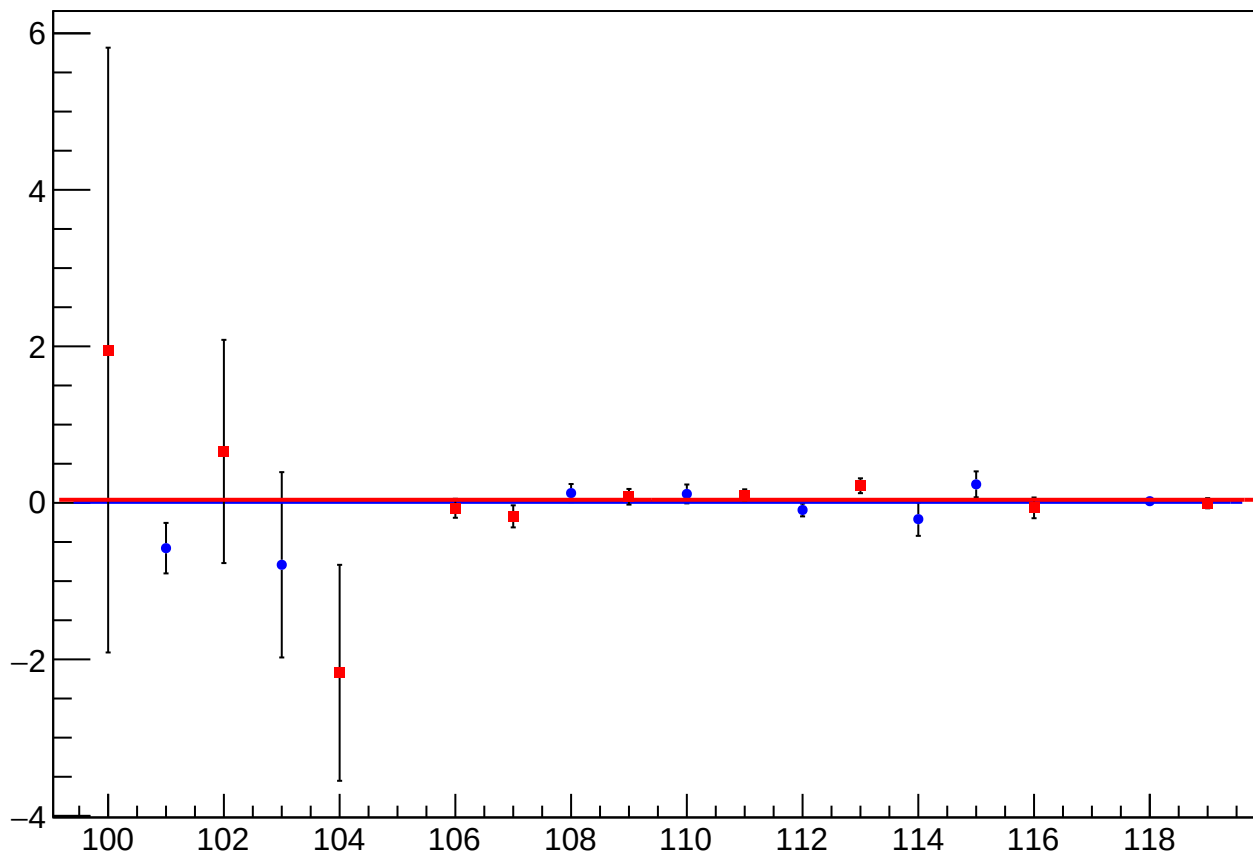
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 50.551+/-0.018  $\chi^2/\text{NDF}$ : 4102205.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.037  $\chi^2$ /NDF: 10.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.039 $\pm$ 0.035  $\chi^2$ /NDF: 11.5/9

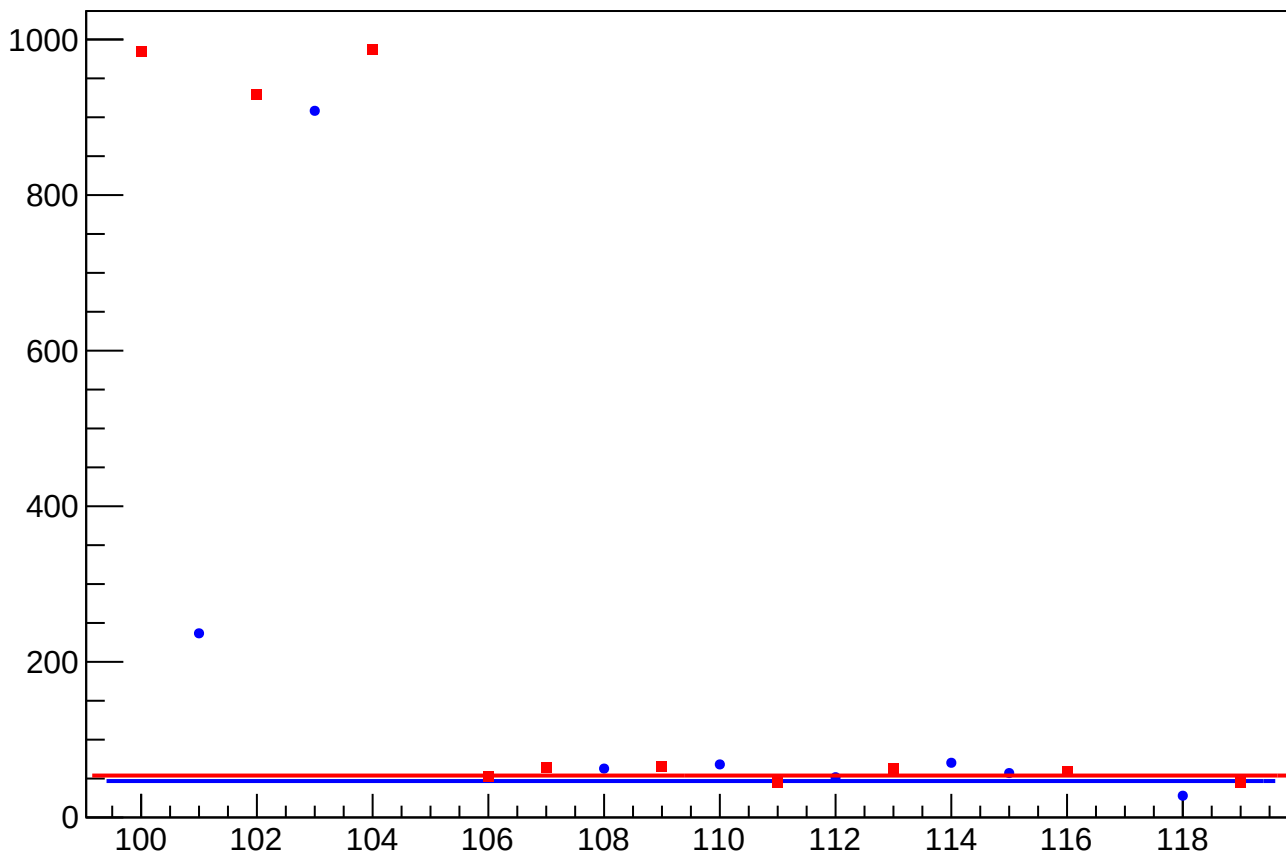
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.026  $\chi^2$ /NDF: 21.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 46.796 $\pm$ 0.026  $\chi^2$ /NDF: 2145630.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 53.865 $\pm$ 0.025  $\chi^2$ /NDF: 1918484.2/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

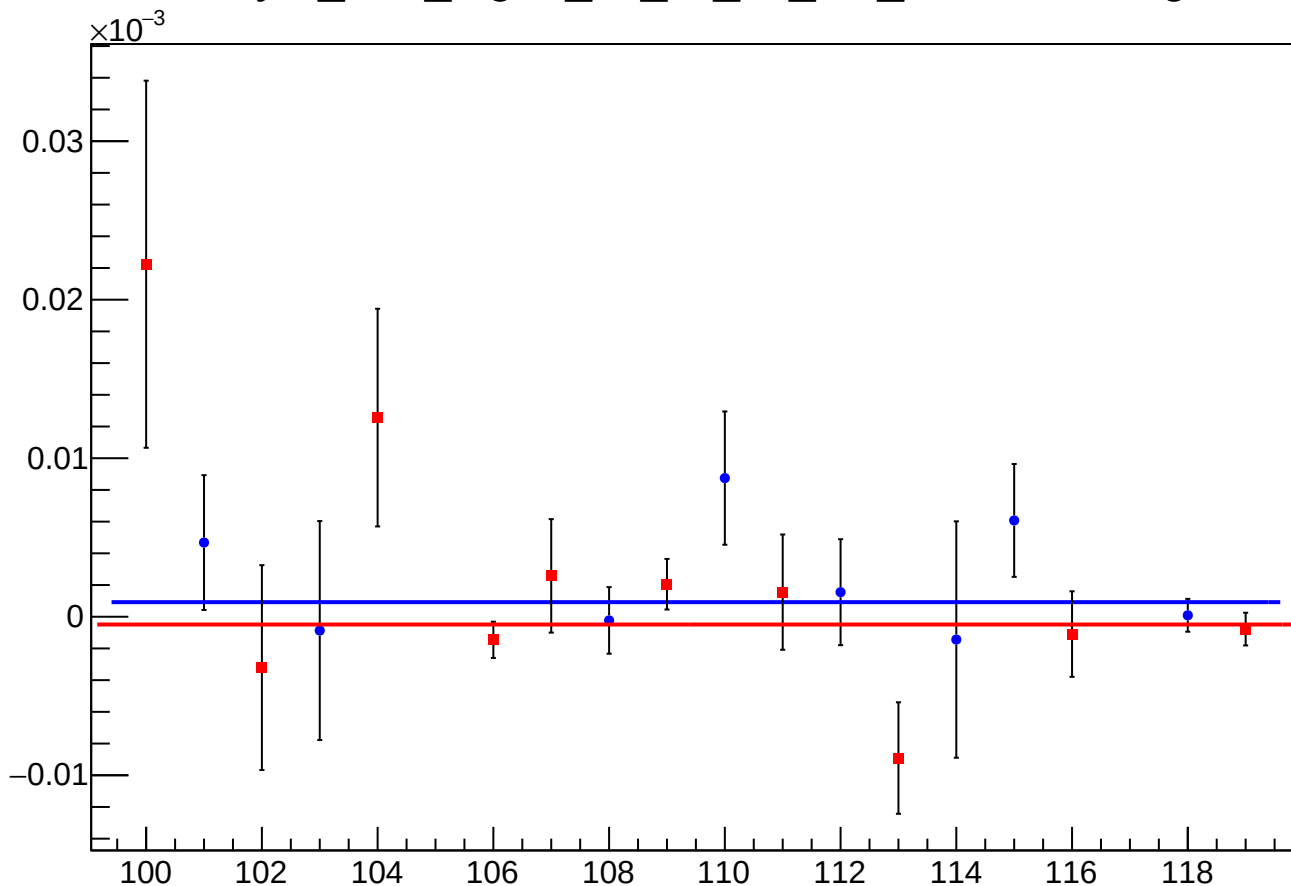
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 50.551 $\pm$ 0.018  $\chi^2$ /NDF: 4102205.7/17

- 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: 7.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.8/9

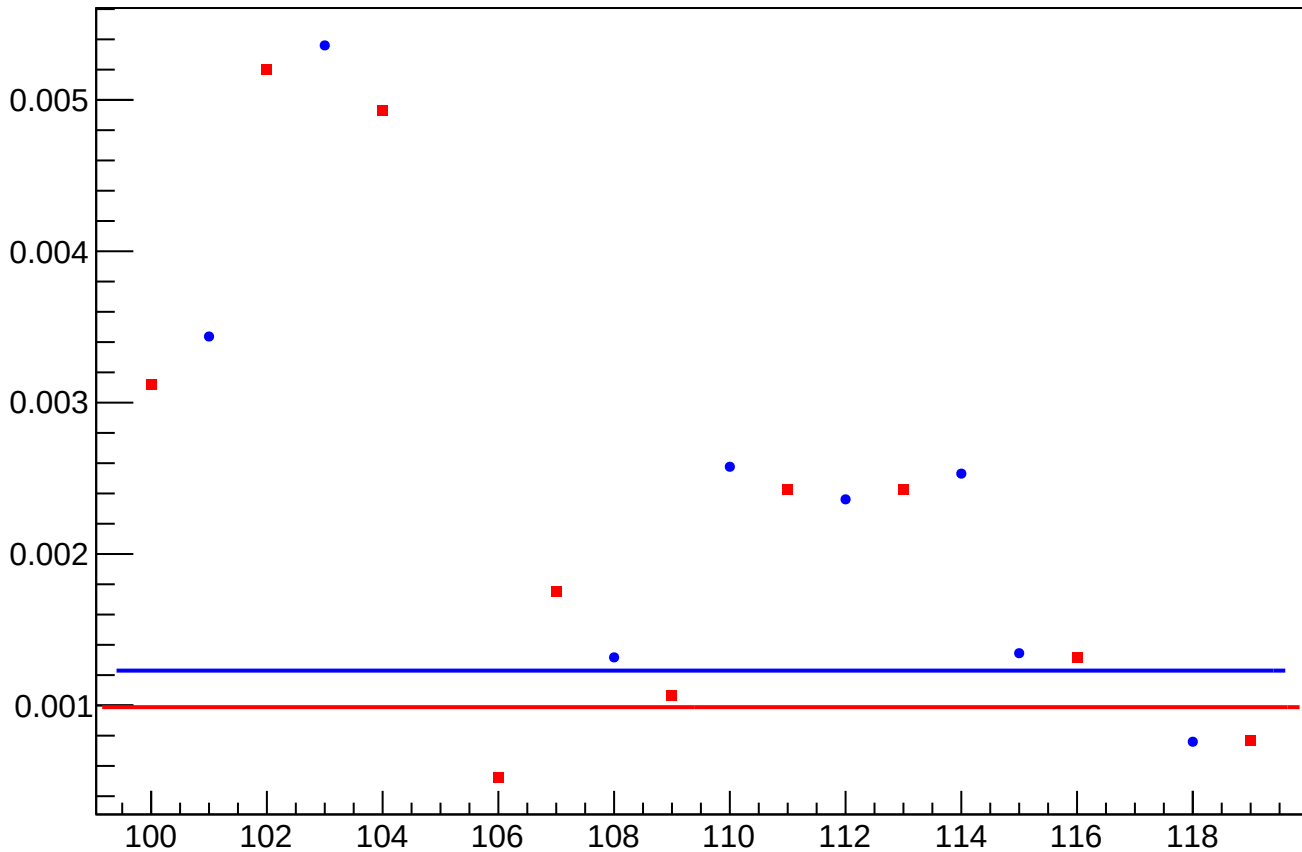
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 27.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2167439.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2769830.3/9

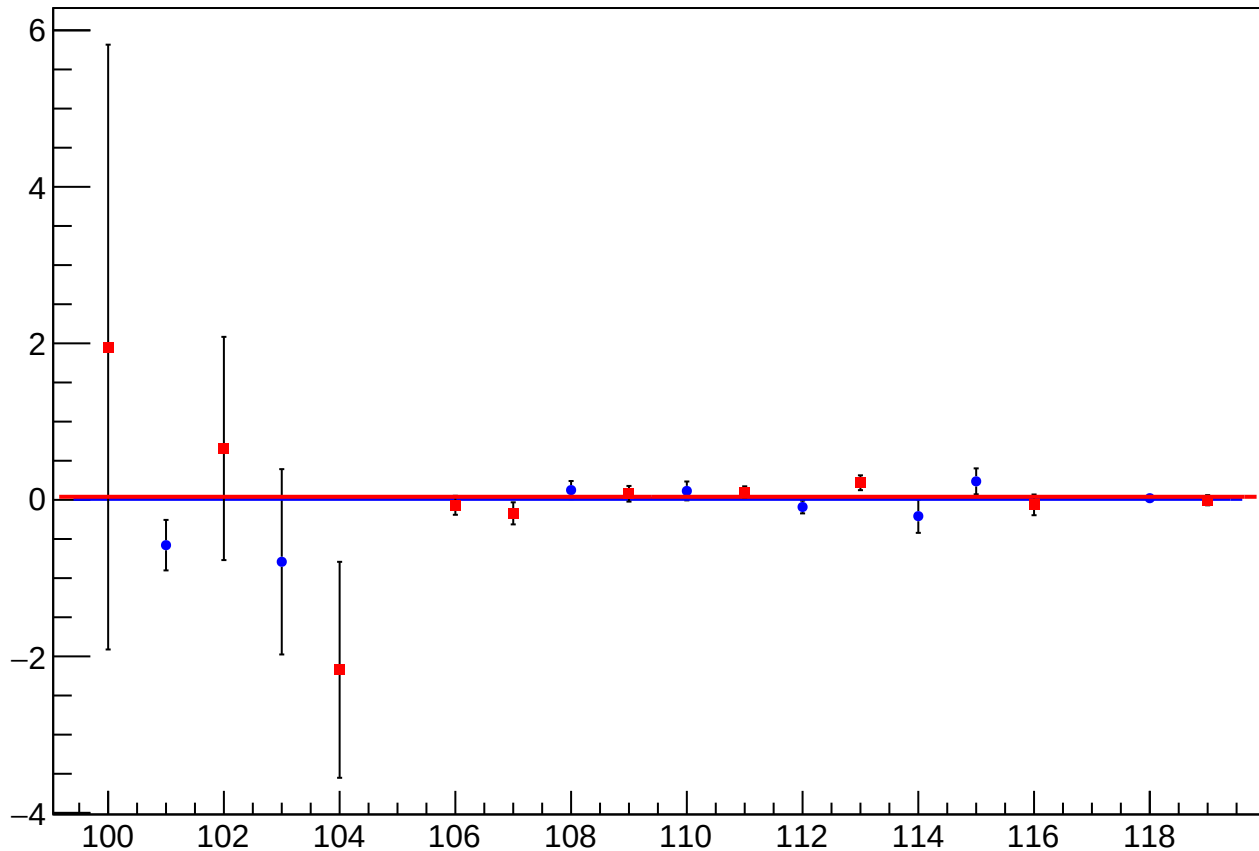
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5045969.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.037  $\chi^2$ /NDF: 10.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.039 $\pm$ 0.035  $\chi^2$ /NDF: 11.5/9

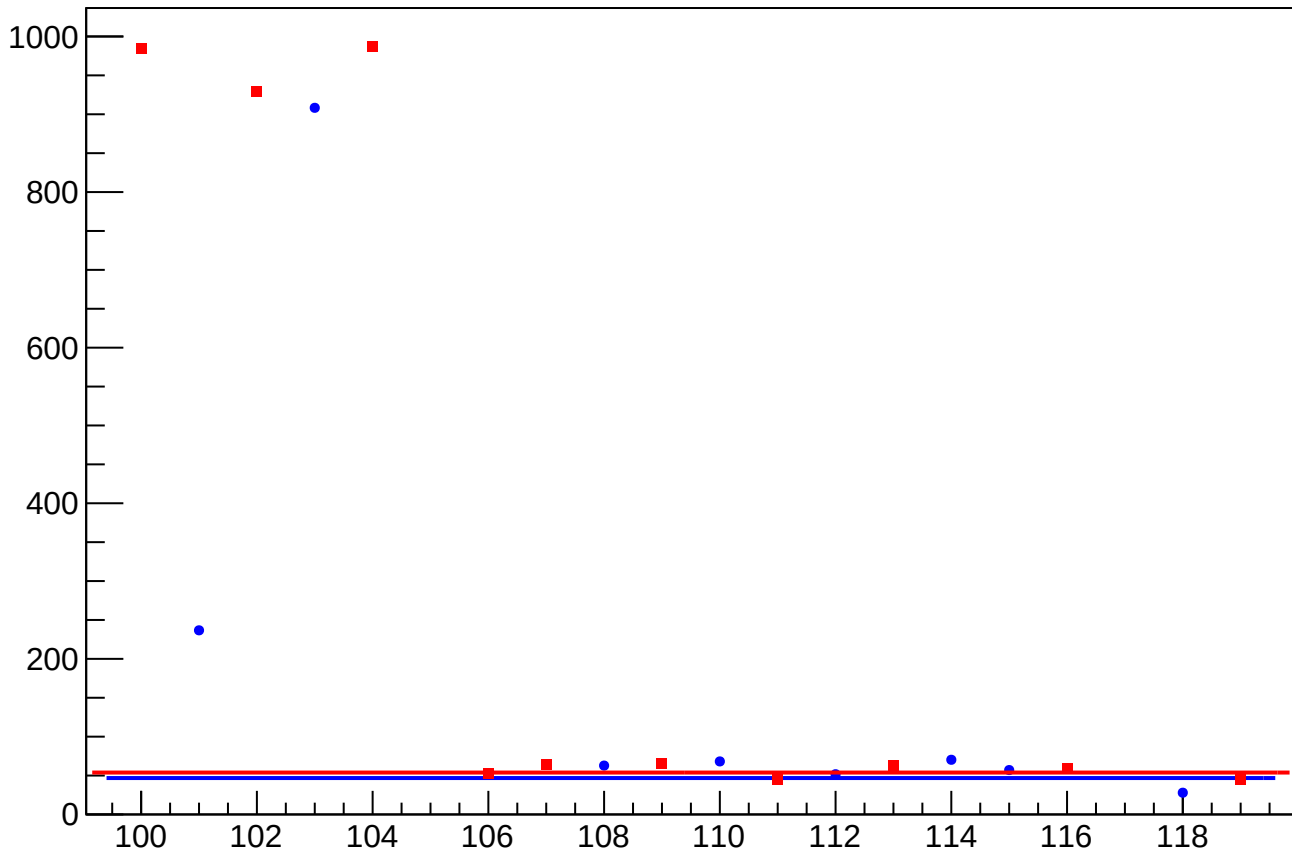
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.026  $\chi^2$ /NDF: 21.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 46.795 $\pm$ 0.026  $\chi^2$ /NDF: 2145679.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 53.865 $\pm$ 0.025  $\chi^2$ /NDF: 1918484.6/9

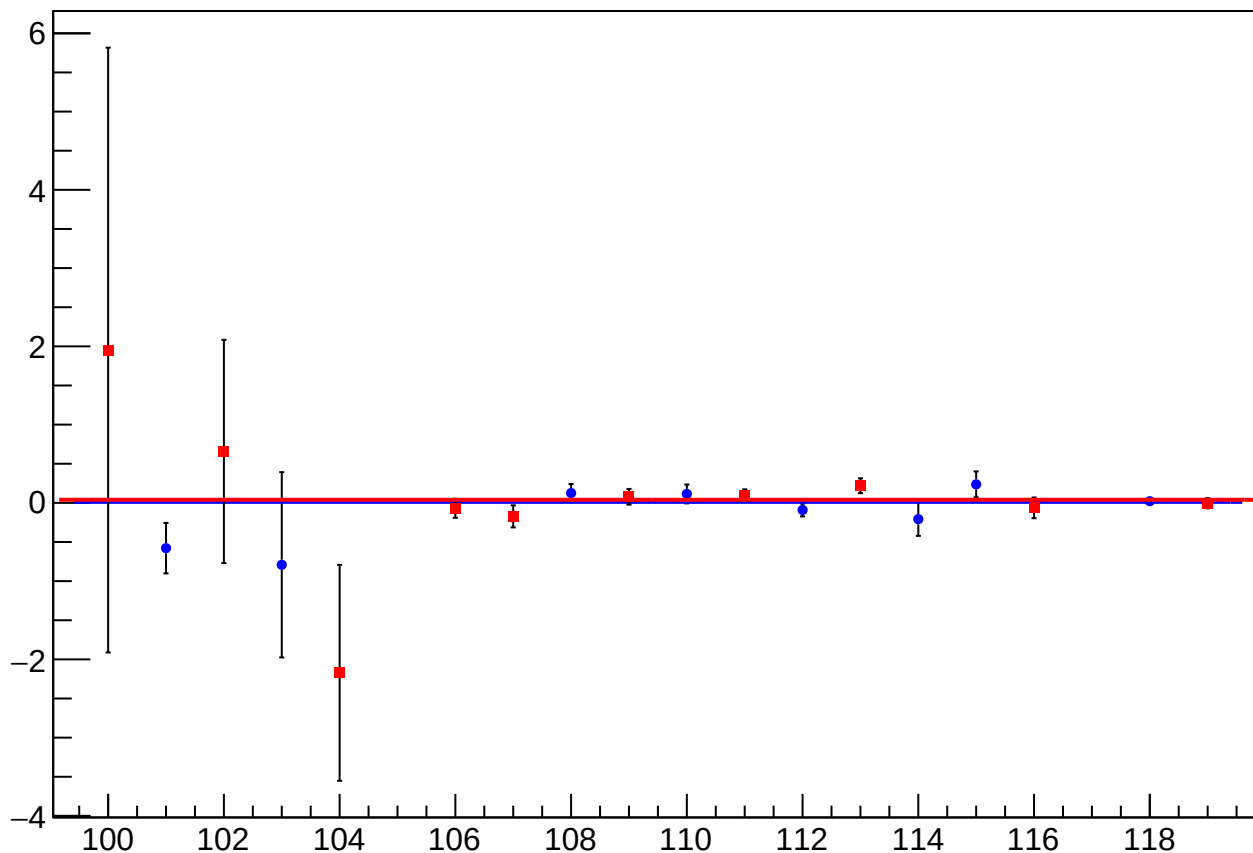
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 50.551 $\pm$ 0.018  $\chi^2$ /NDF: 4102265.2/17

- 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: 0.013 $\pm$ 0.037  $\chi^2$ /NDF: 10.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.039 $\pm$ 0.035  $\chi^2$ /NDF: 11.5/9

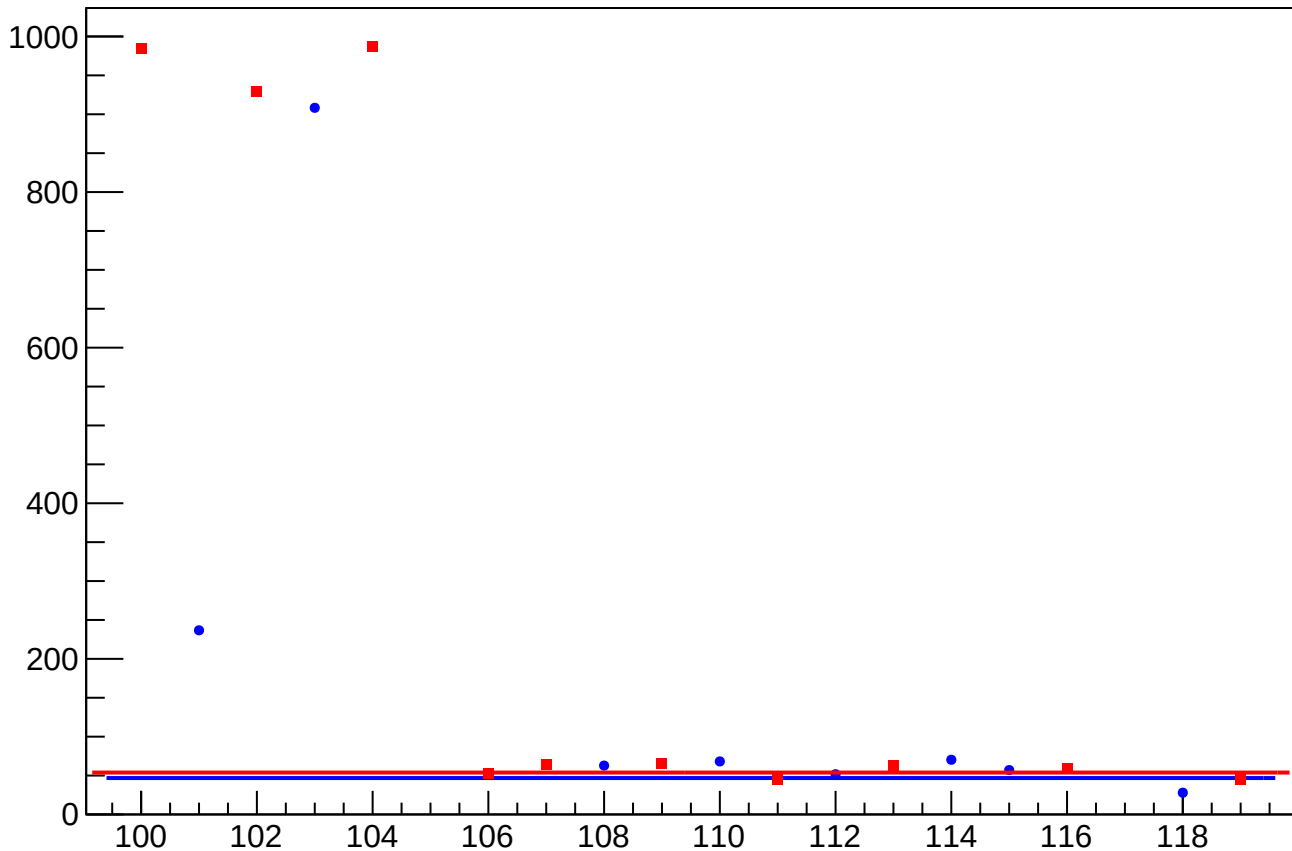
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.026  $\chi^2$ /NDF: 21.8/17

- 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: 46.795+/-0.026  $\chi^2/\text{NDF}$ : 2145679.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.865+/-0.025  $\chi^2/\text{NDF}$ : 1918484.6/9

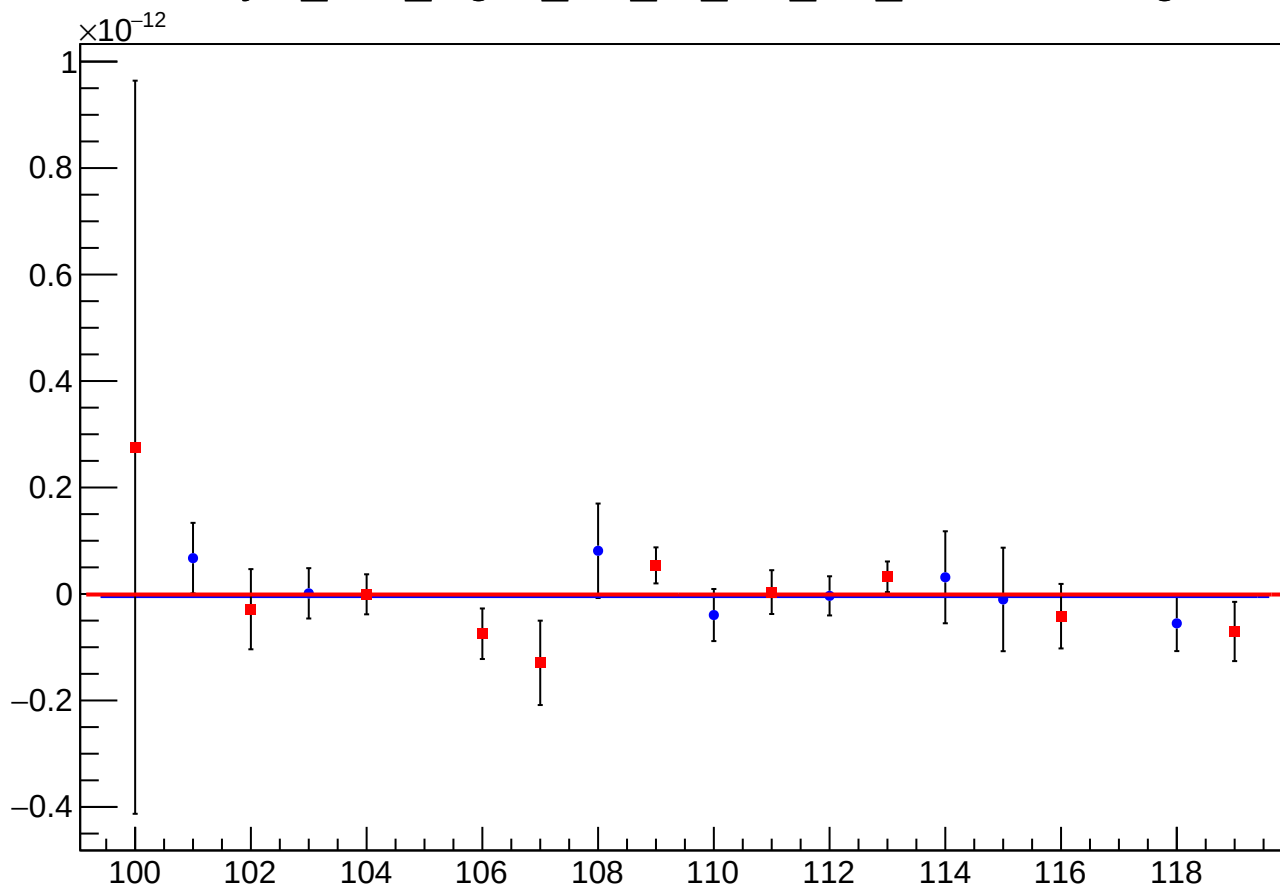
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 50.551+/-0.018  $\chi^2/\text{NDF}$ : 4102265.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.3/9

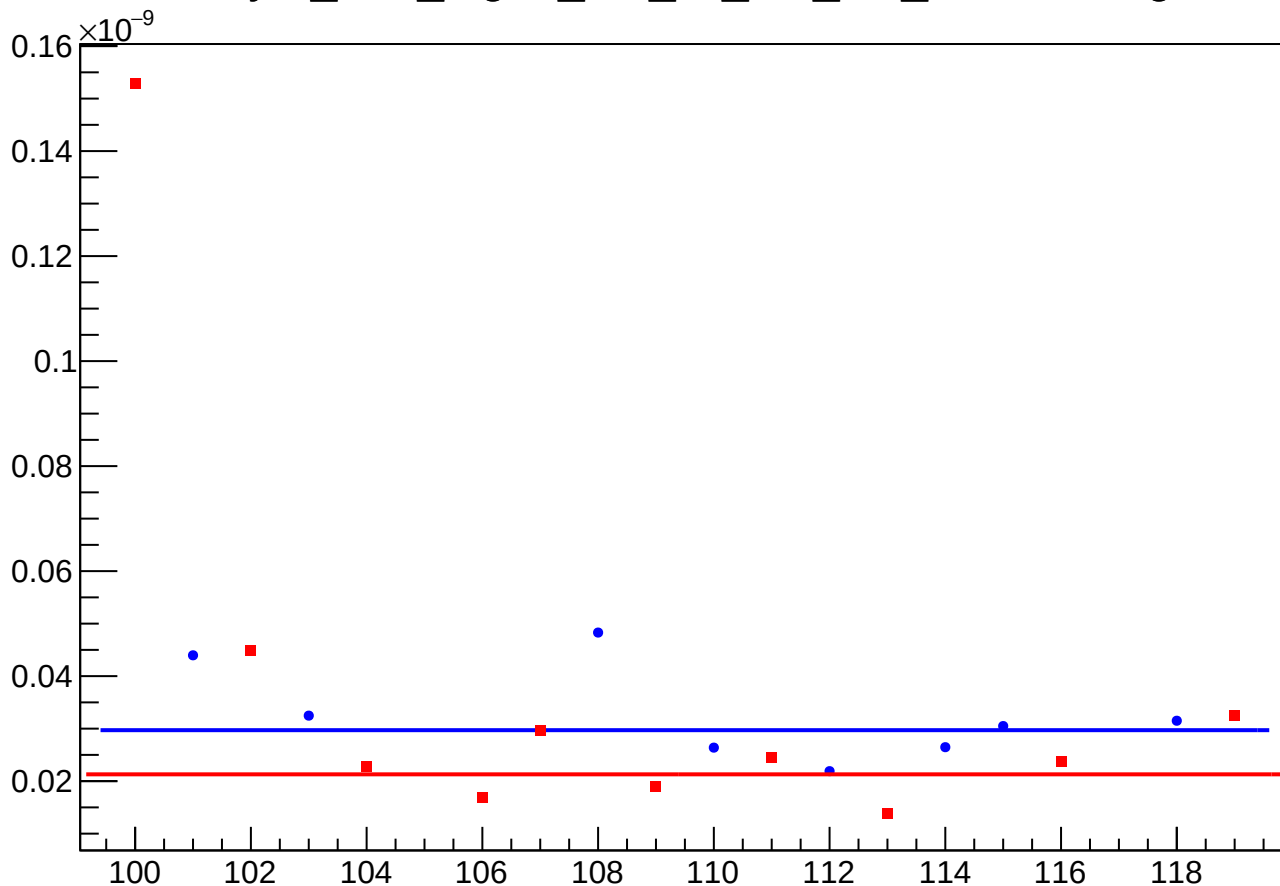
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.1/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 291950.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 554359.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

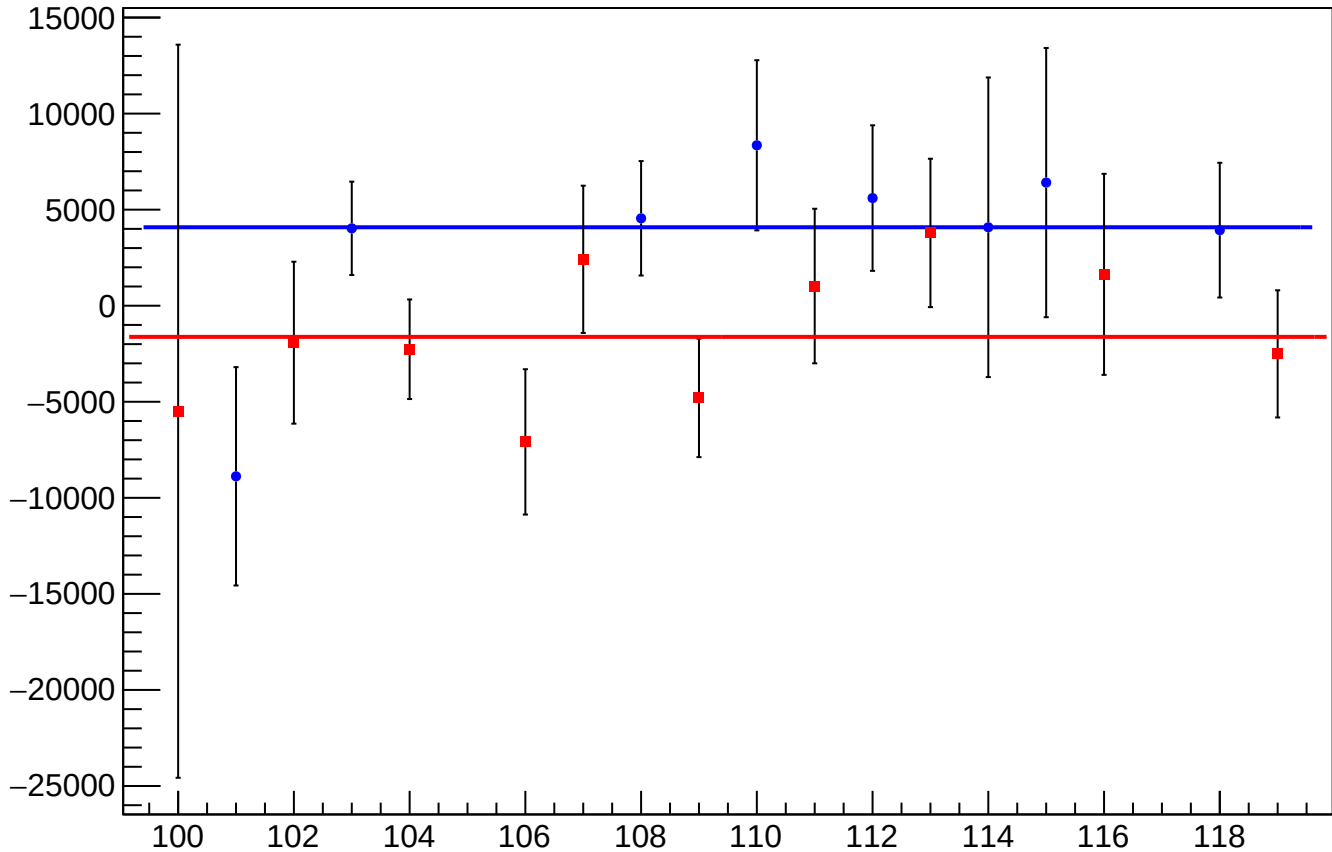
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1082237.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr2\_mean vs Slug



Right In: 4083.782+/-1346.152  $\chi^2/\text{NDF}$ : 6.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1621.989+/-1188.848  $\chi^2/\text{NDF}$ : 7.2/9

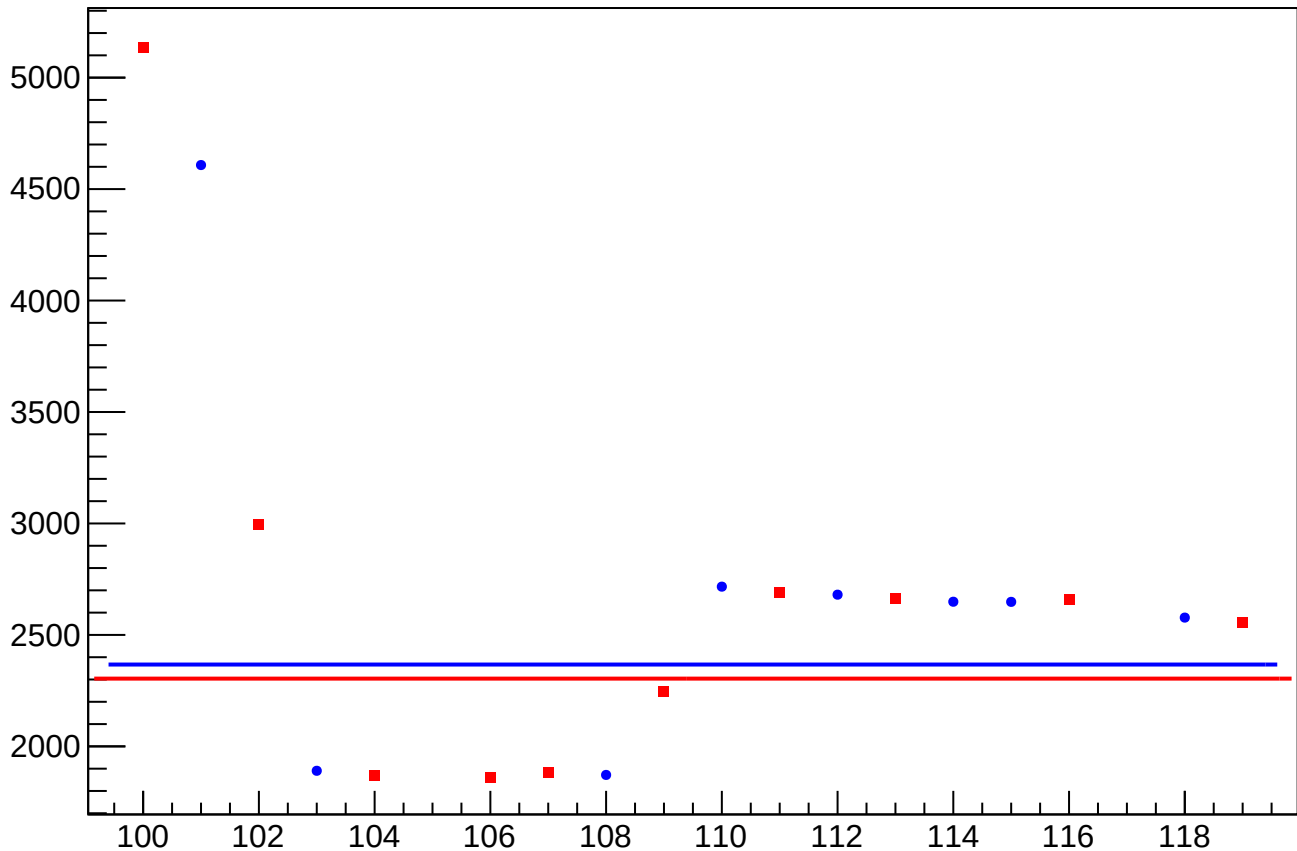
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 878.195+/-891.093  $\chi^2/\text{NDF}$ : 23.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr2\_rms vs Slug



Right In: 2367.128+/-0.952  $\chi^2/\text{NDF}$ : 482362.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2304.009+/-0.841  $\chi^2/\text{NDF}$ : 263787.0/9

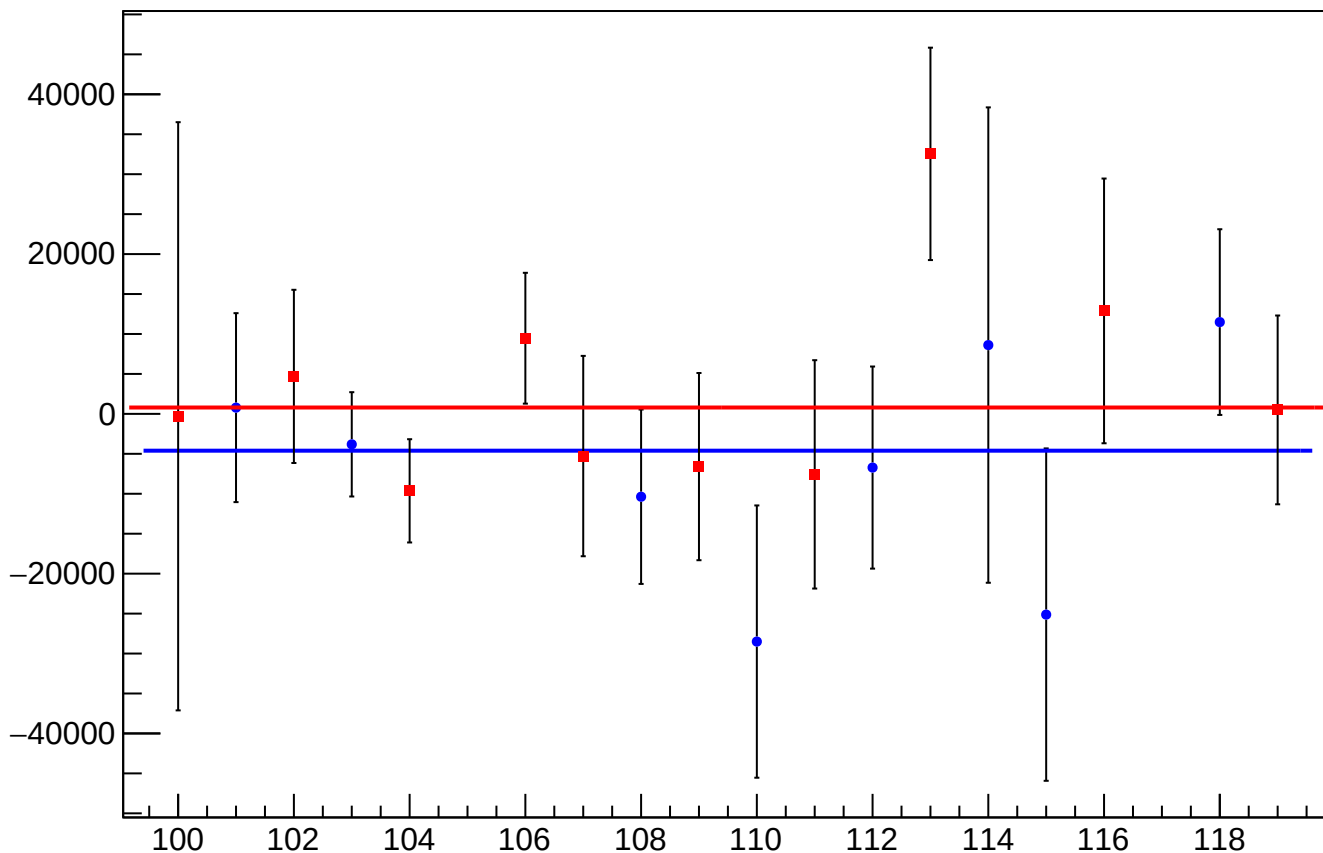
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2331.667+/-0.630  $\chi^2/\text{NDF}$ : 748619.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_reg\_correction\_mean vs Slug



Right In: -4608.19±4097.732  $\chi^2/\text{NDF}$ : 5.6/7

Left Out: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 796.329±3468.603  $\chi^2/\text{NDF}$ : 11.1/9

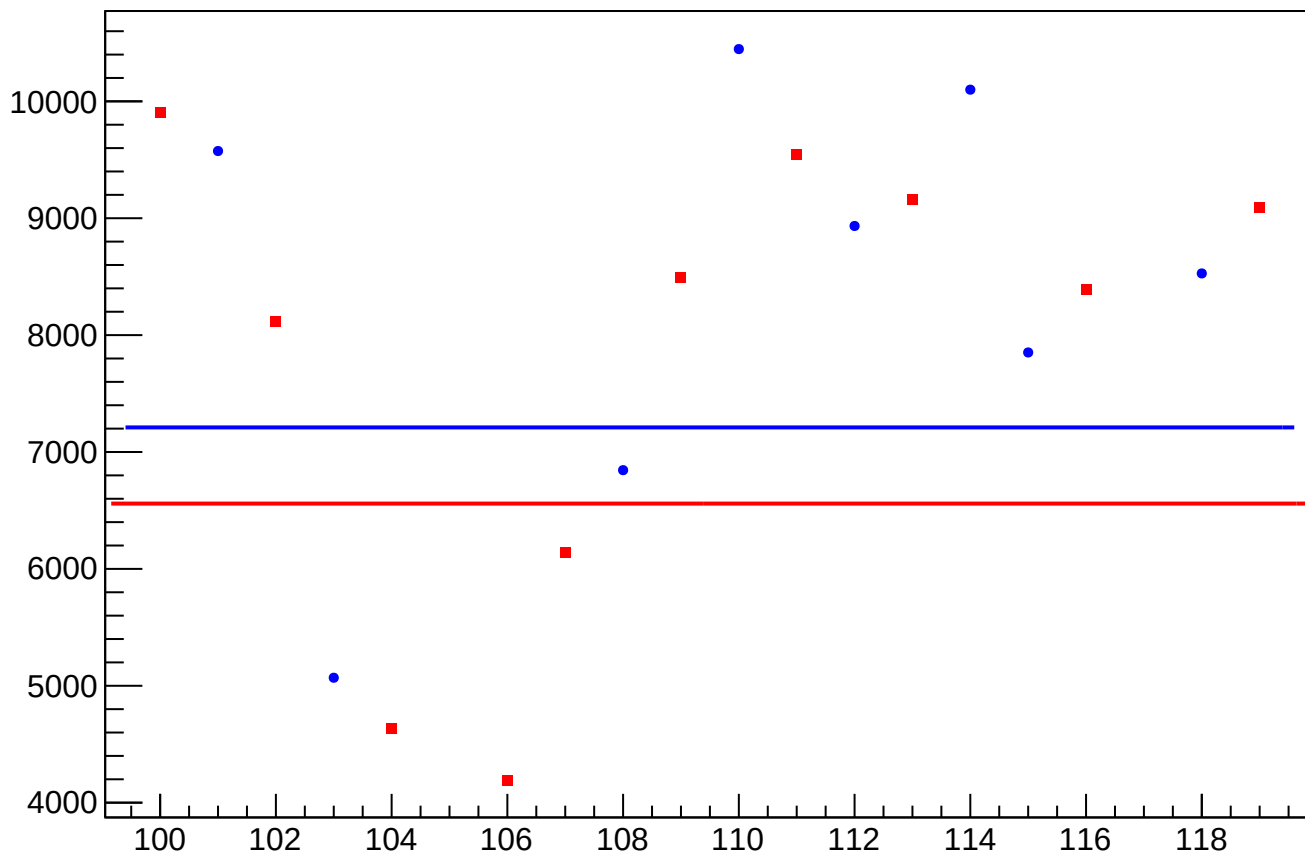
Left In: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1459.609±2647.472  $\chi^2/\text{NDF}$ : 17.7/17

- sign 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_reg\_correction\_rms vs Slug



Right In: 7210.337+/-2.898  $\chi^2/\text{NDF}$ : 453243.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6558.756+/-2.453  $\chi^2/\text{NDF}$ : 739730.4/9

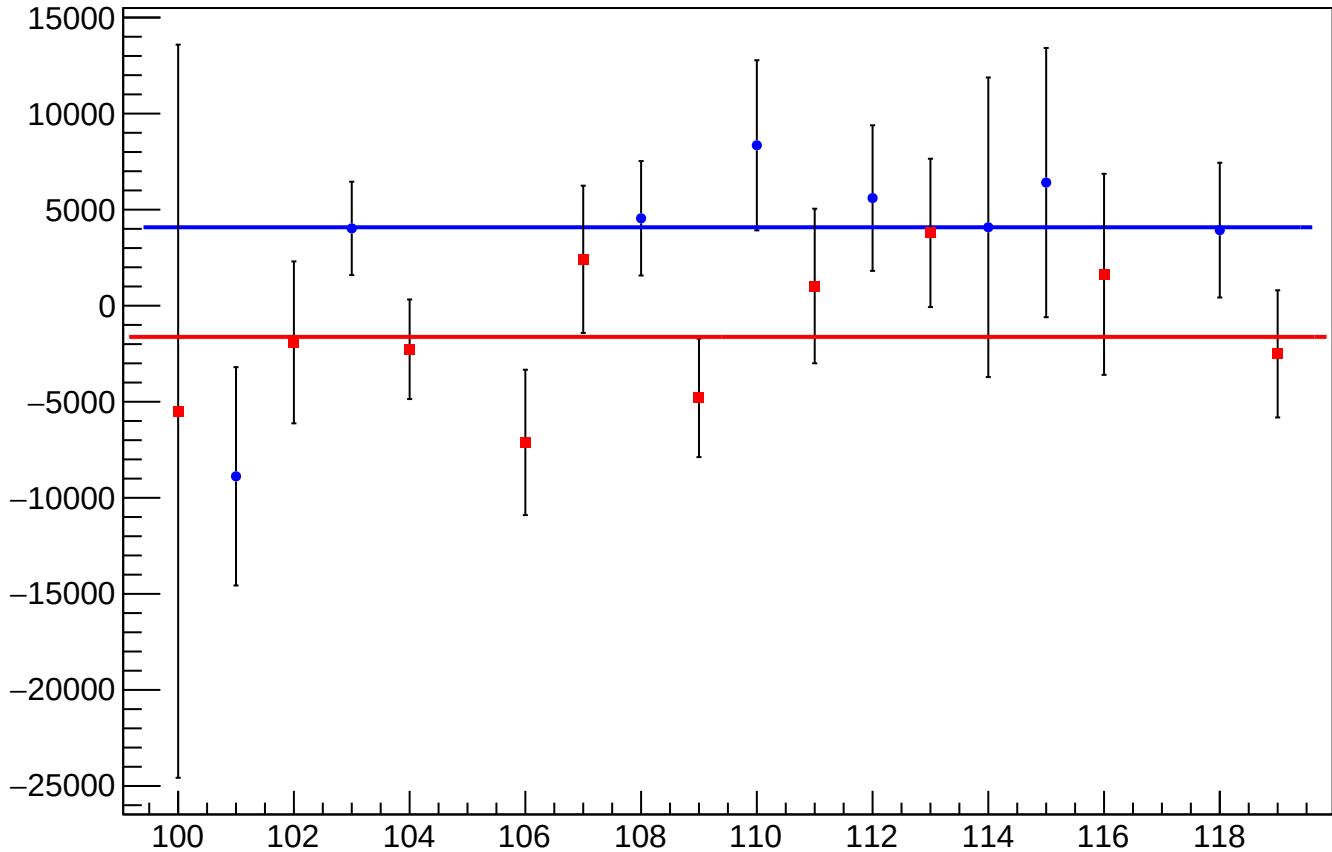
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6830.741+/-1.872  $\chi^2/\text{NDF}$ : 1222434.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atr2\_mean vs Slug



Right In: 4082.827+/-1346.153  $\chi^2/\text{NDF}$ : 6.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1623.255+/-1188.864  $\chi^2/\text{NDF}$ : 7.2/9

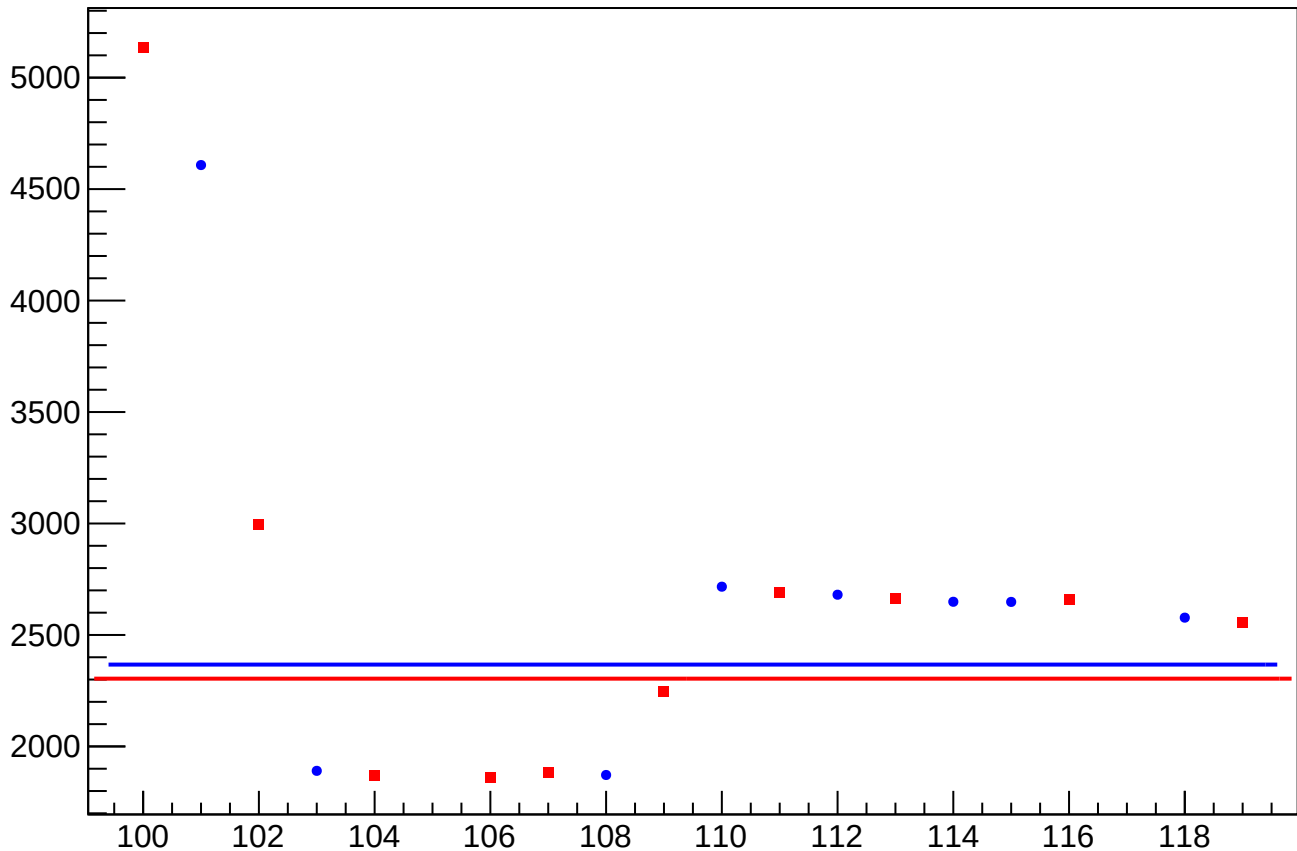
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 877.101+/-891.100  $\chi^2/\text{NDF}$ : 23.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atr2\_rms vs Slug



Right In: 2367.130+/-0.952  $\chi^2/\text{NDF}$ : 482360.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2304.046+/-0.841  $\chi^2/\text{NDF}$ : 263748.5/9

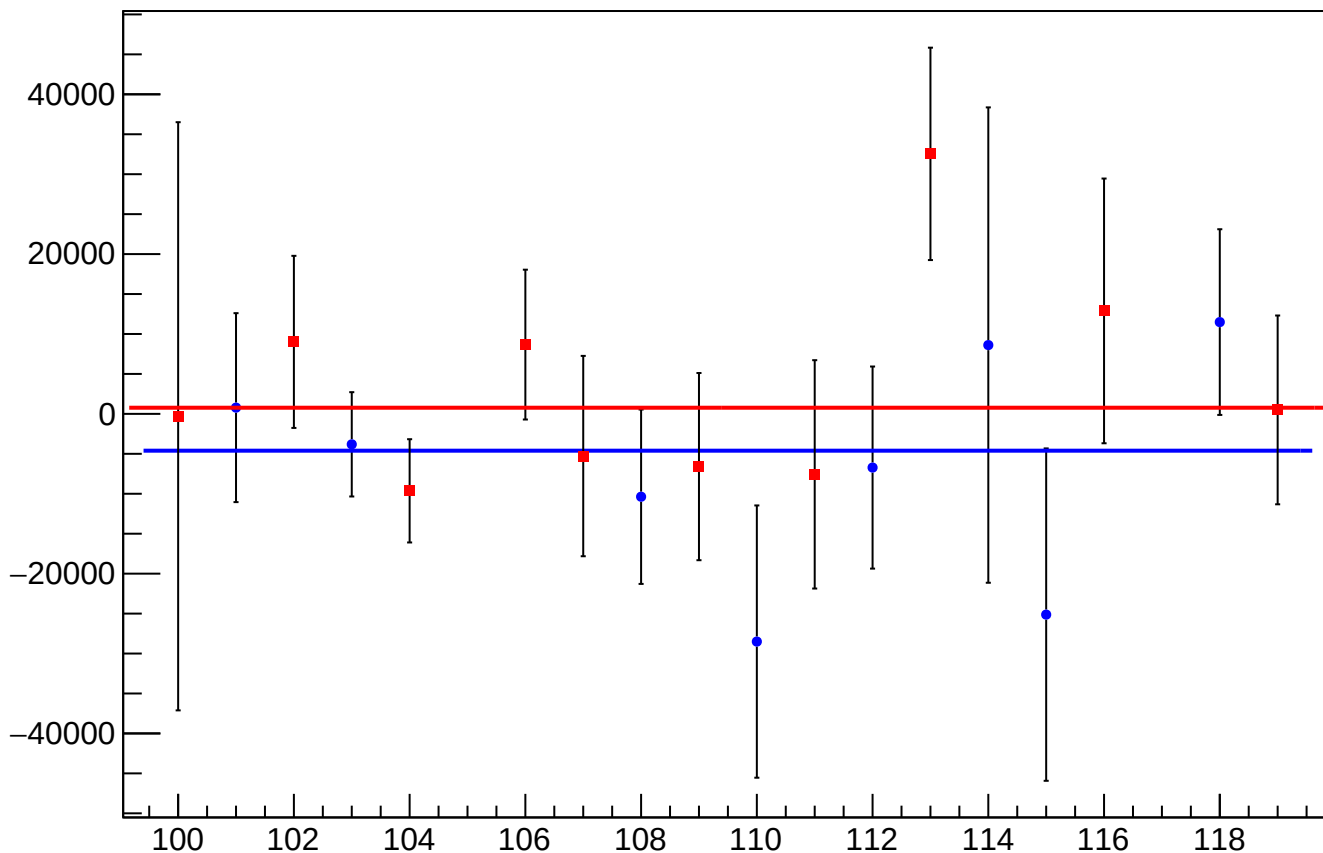
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2331.689+/-0.630  $\chi^2/\text{NDF}$ : 748576.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_cor\_correction\_mean vs Slug



Right In: -4607.892 $\pm$ 4097.943  $\chi^2$ /NDF: 5.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 770.042 $\pm$ 3542.569  $\chi^2$ /NDF: 11.1/9

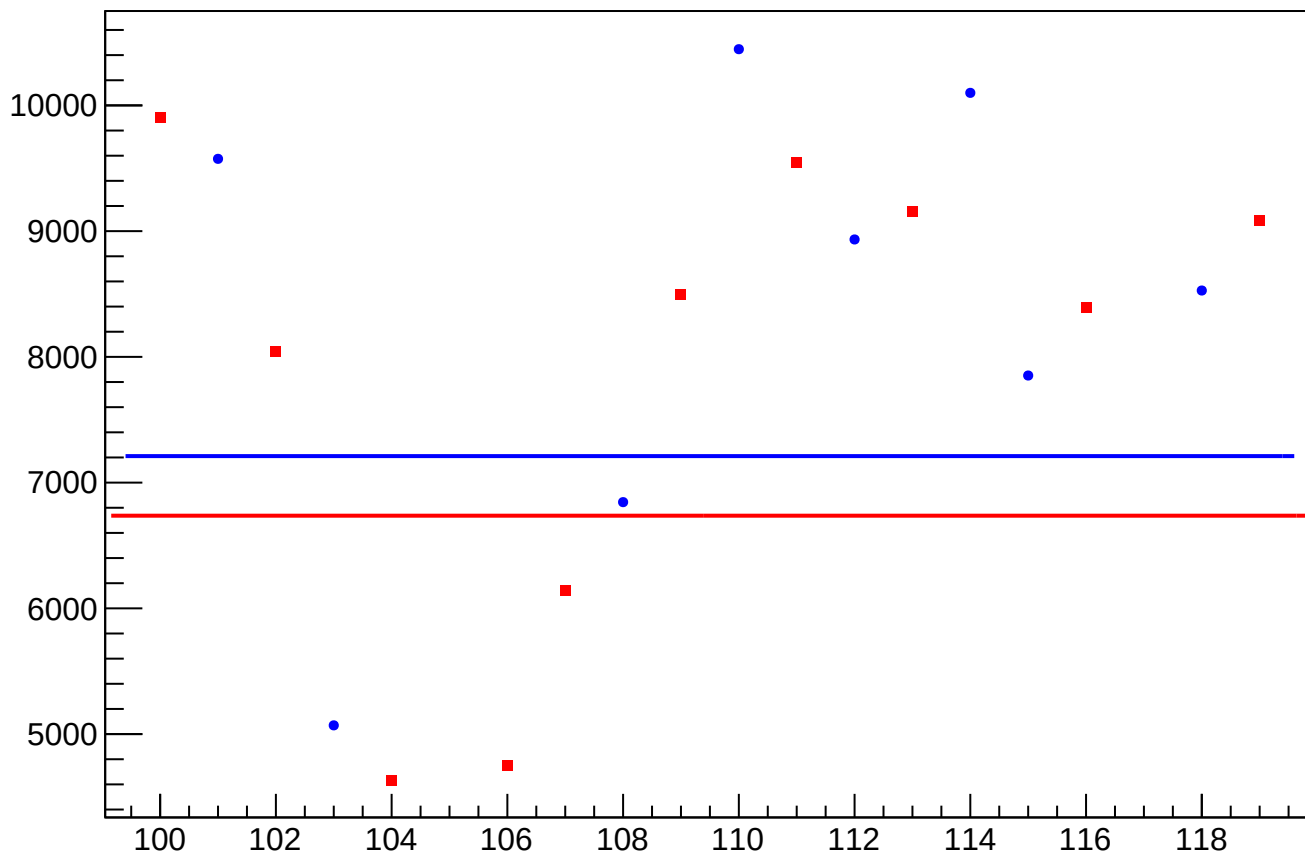
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1530.069 $\pm$ 2679.986  $\chi^2$ /NDF: 17.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_cor\_correction\_rms vs Slug



Right In: 7210.838+/-2.898  $\chi^2/\text{NDF}$ : 453041.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6736.959+/-2.505  $\chi^2/\text{NDF}$ : 638967.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

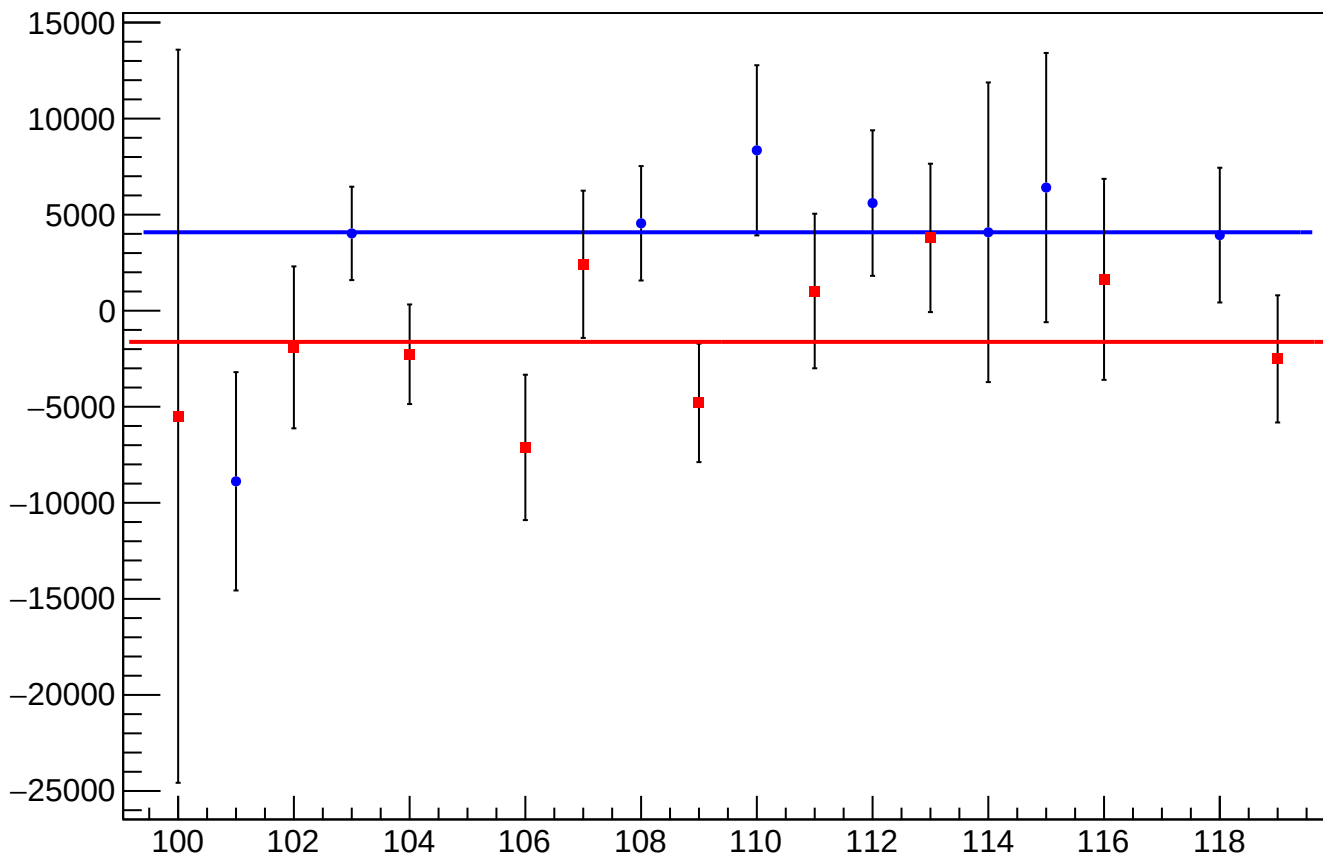
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6939.634+/-1.895  $\chi^2/\text{NDF}$ : 1107314.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_atr2\_mean vs Slug



Right In: 4082.827+/-1346.153  $\chi^2/\text{NDF}$ : 6.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1623.255+/-1188.864  $\chi^2/\text{NDF}$ : 7.2/9

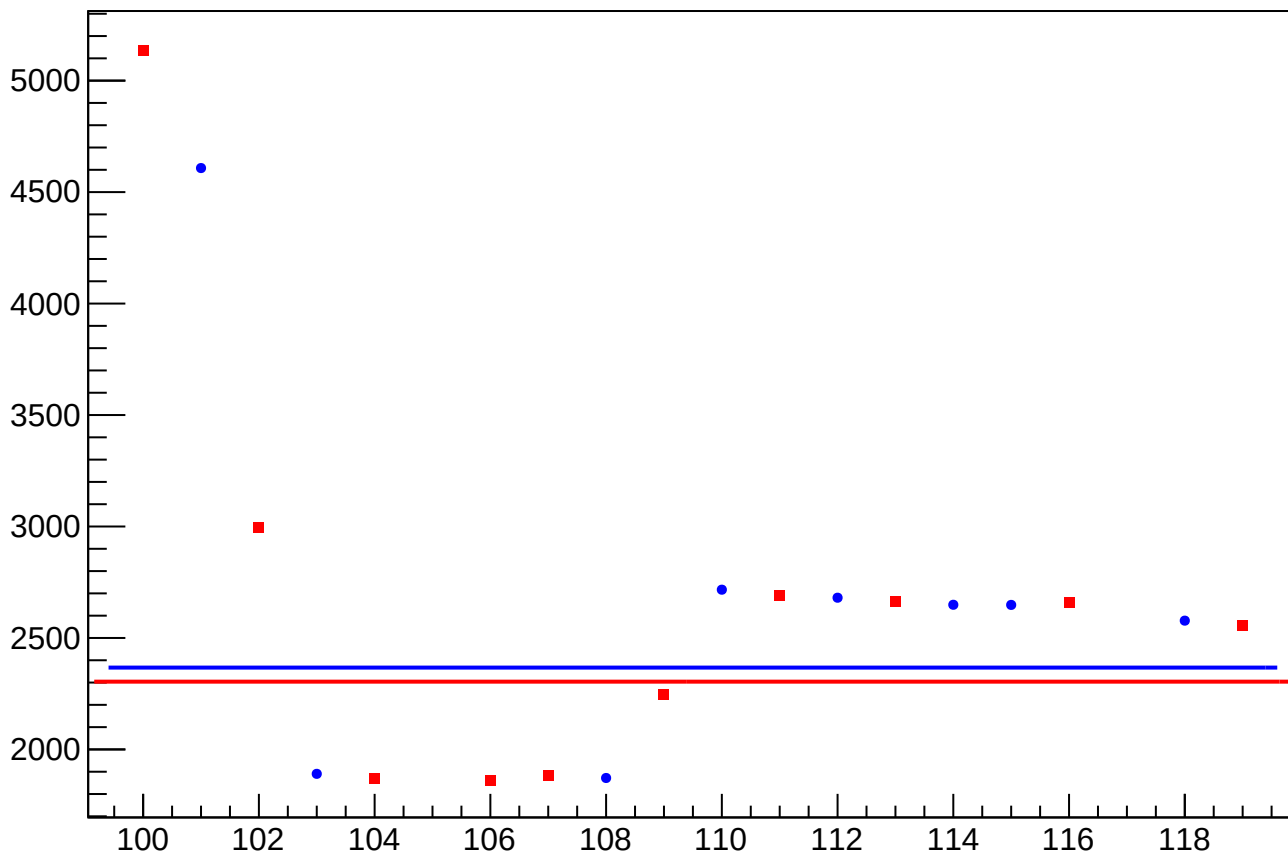
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 877.101+/-891.100  $\chi^2/\text{NDF}$ : 23.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr2\_rms vs Slug



Right In: 2367.130+/-0.952  $\chi^2/\text{NDF}$ : 482360.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2304.046+/-0.841  $\chi^2/\text{NDF}$ : 263748.5/9

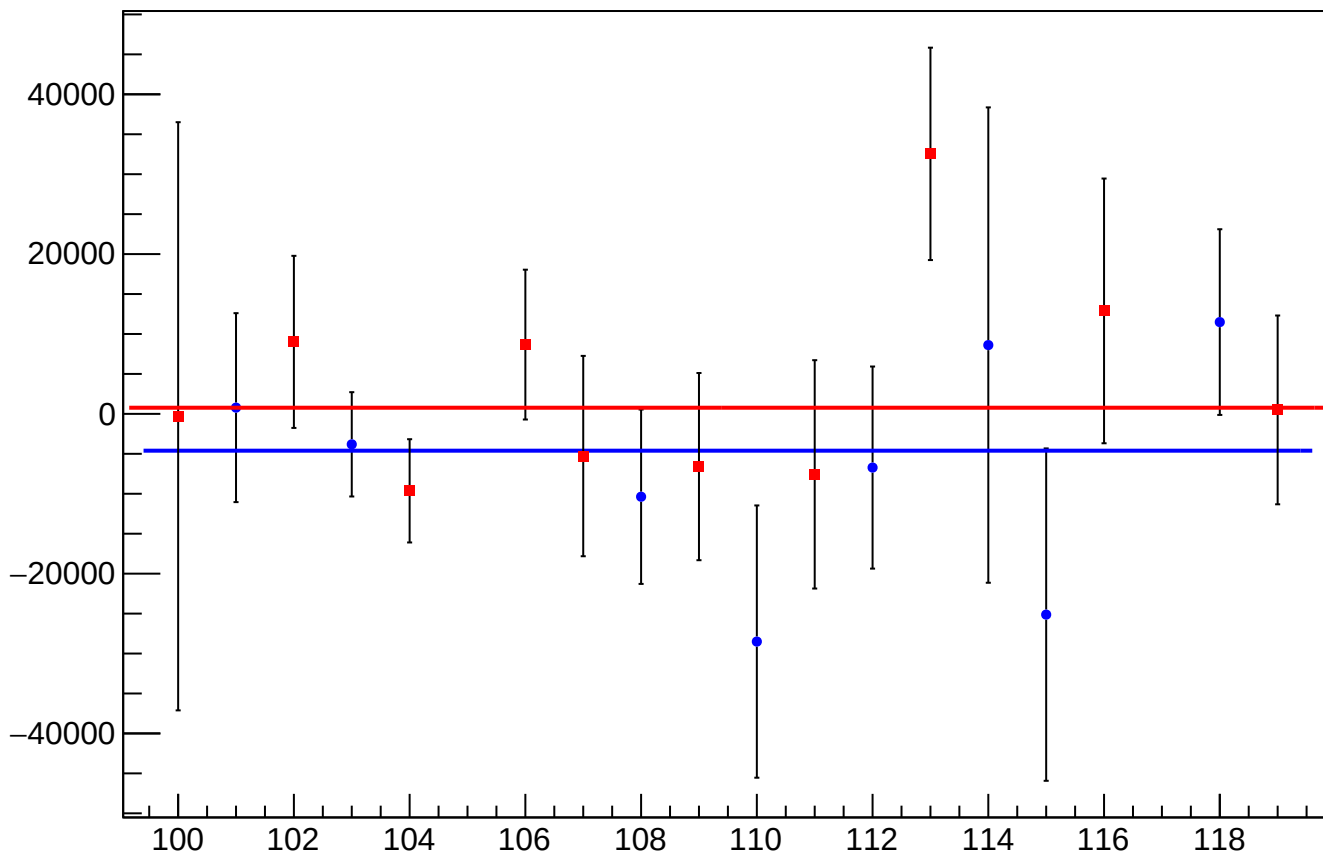
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2331.689+/-0.630  $\chi^2/\text{NDF}$ : 748576.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_cor\_correction\_mean vs Slug



Right In: -4607.892 $\pm$ 4097.943  $\chi^2$ /NDF: 5.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 770.042 $\pm$ 3542.569  $\chi^2$ /NDF: 11.1/9

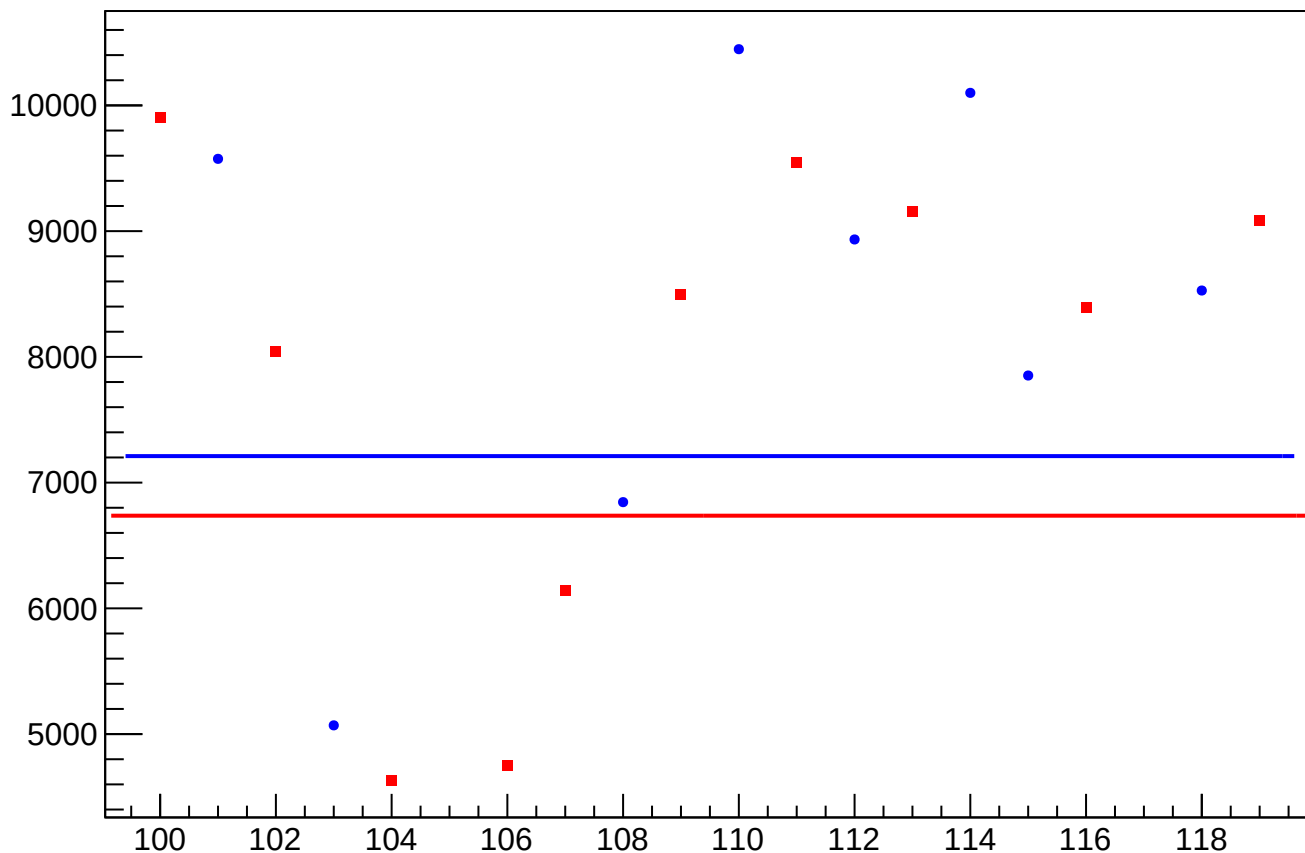
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1530.069 $\pm$ 2679.986  $\chi^2$ /NDF: 17.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_eigen\_cor\_correction\_rms vs Slug



Right In: 7210.838+/-2.898  $\chi^2/\text{NDF}$ : 453041.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6736.959+/-2.505  $\chi^2/\text{NDF}$ : 638967.5/9

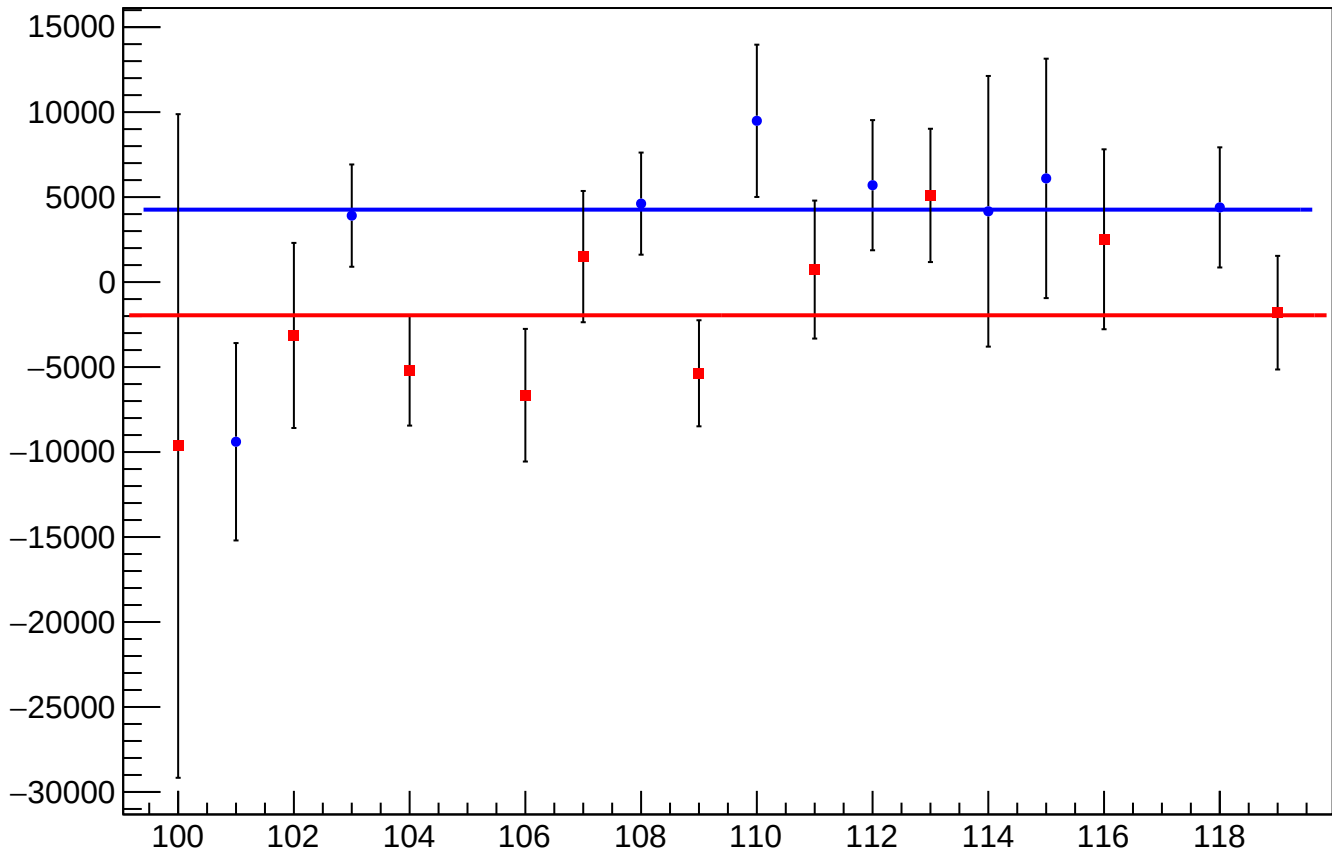
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6939.634+/-1.895  $\chi^2/\text{NDF}$ : 1107314.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atr2\_mean vs Slug



Right In: 4261.712 $\pm$ 1436.074  $\chi^2$ /NDF: 7.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1953.554 $\pm$ 1272.671  $\chi^2$ /NDF: 9.0/9

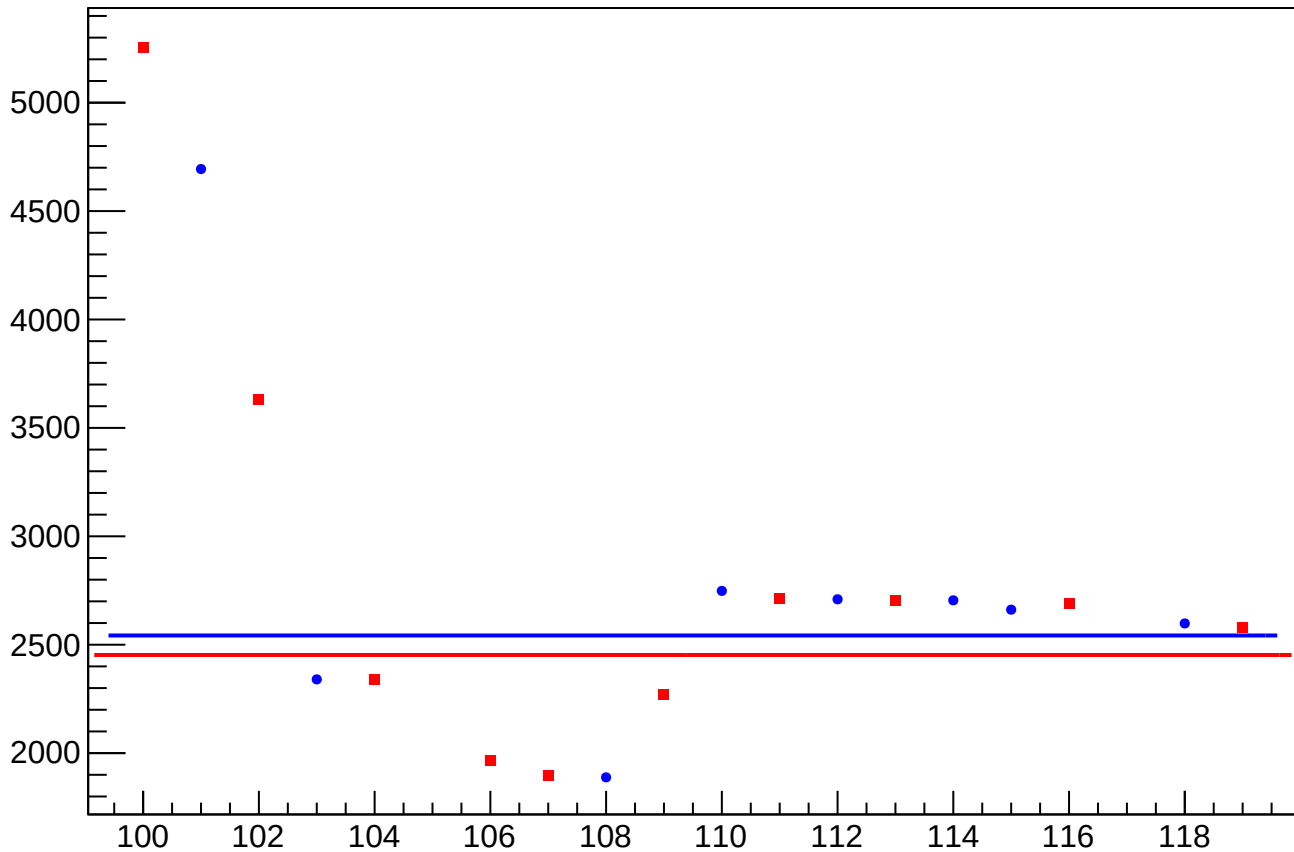
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 780.508 $\pm$ 952.469  $\chi^2$ /NDF: 26.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atr2\_rms vs Slug



Right In: 2542.549 $\pm$ 1.015  $\chi^2$ /NDF: 388335.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2452.565 $\pm$ 0.899  $\chi^2$ /NDF: 240544.0/9

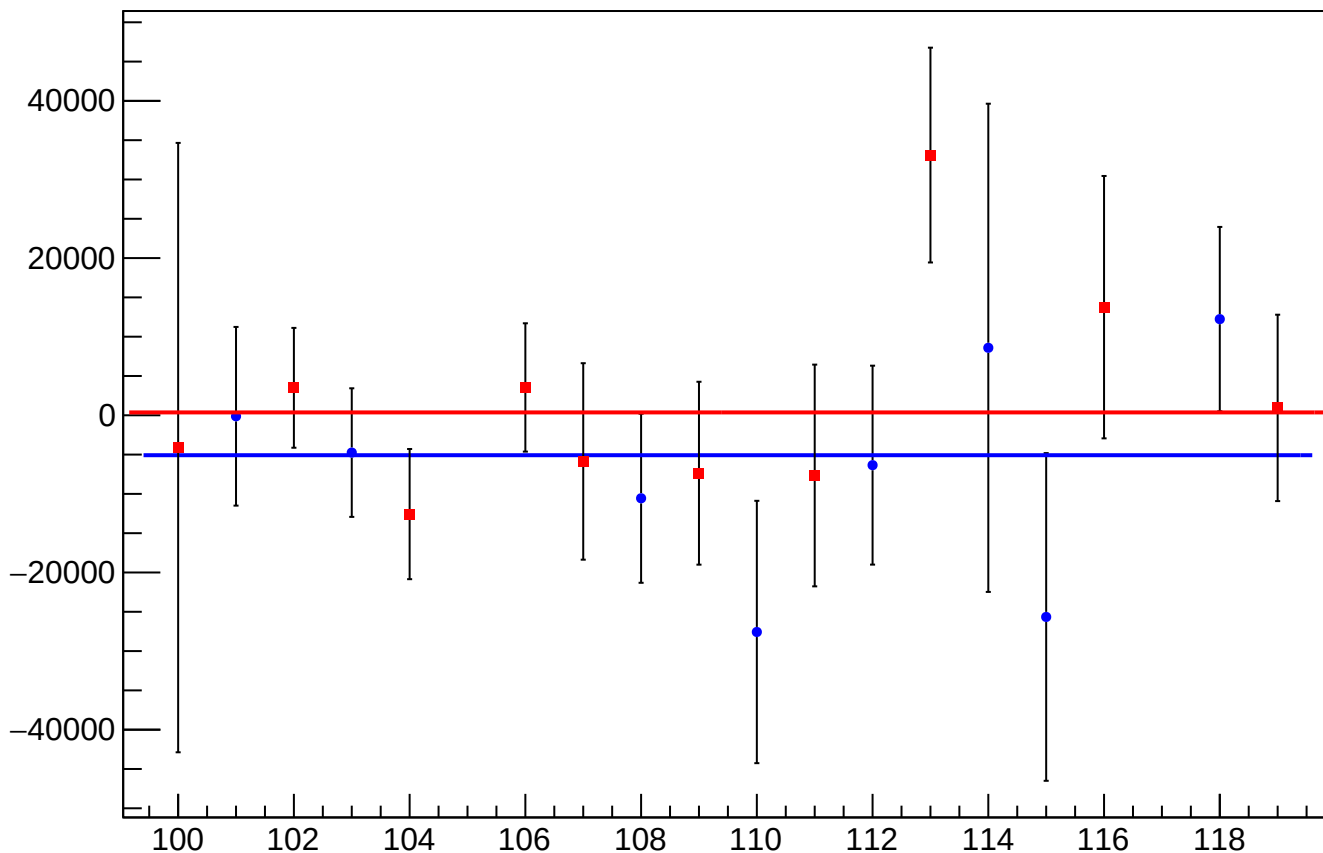
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2492.103 $\pm$ 0.673  $\chi^2$ /NDF: 633281.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_dit\_correction\_mean vs Slug



Right In: -5078.891+/-4395.039  $\chi^2$ /NDF: 5.6/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 365.697+/-3484.992  $\chi^2$ /NDF: 10.2/9

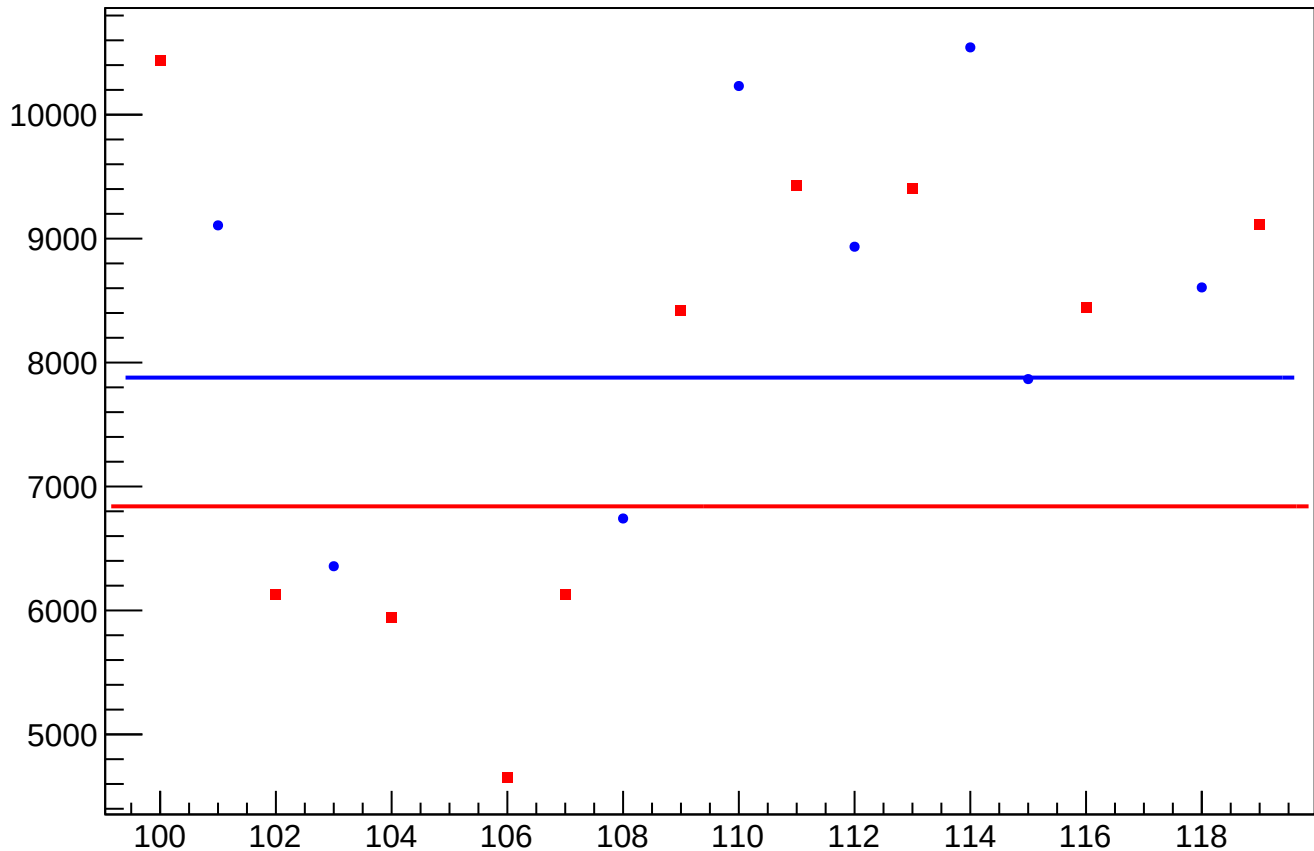
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1736.089+/-2730.704  $\chi^2$ /NDF: 16.7/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_dit\_correction\_rms vs Slug



Right In: 7878.738 $\pm$ 3.108  $\chi^2$ /NDF: 191000.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6839.927 $\pm$ 2.464  $\chi^2$ /NDF: 474788.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

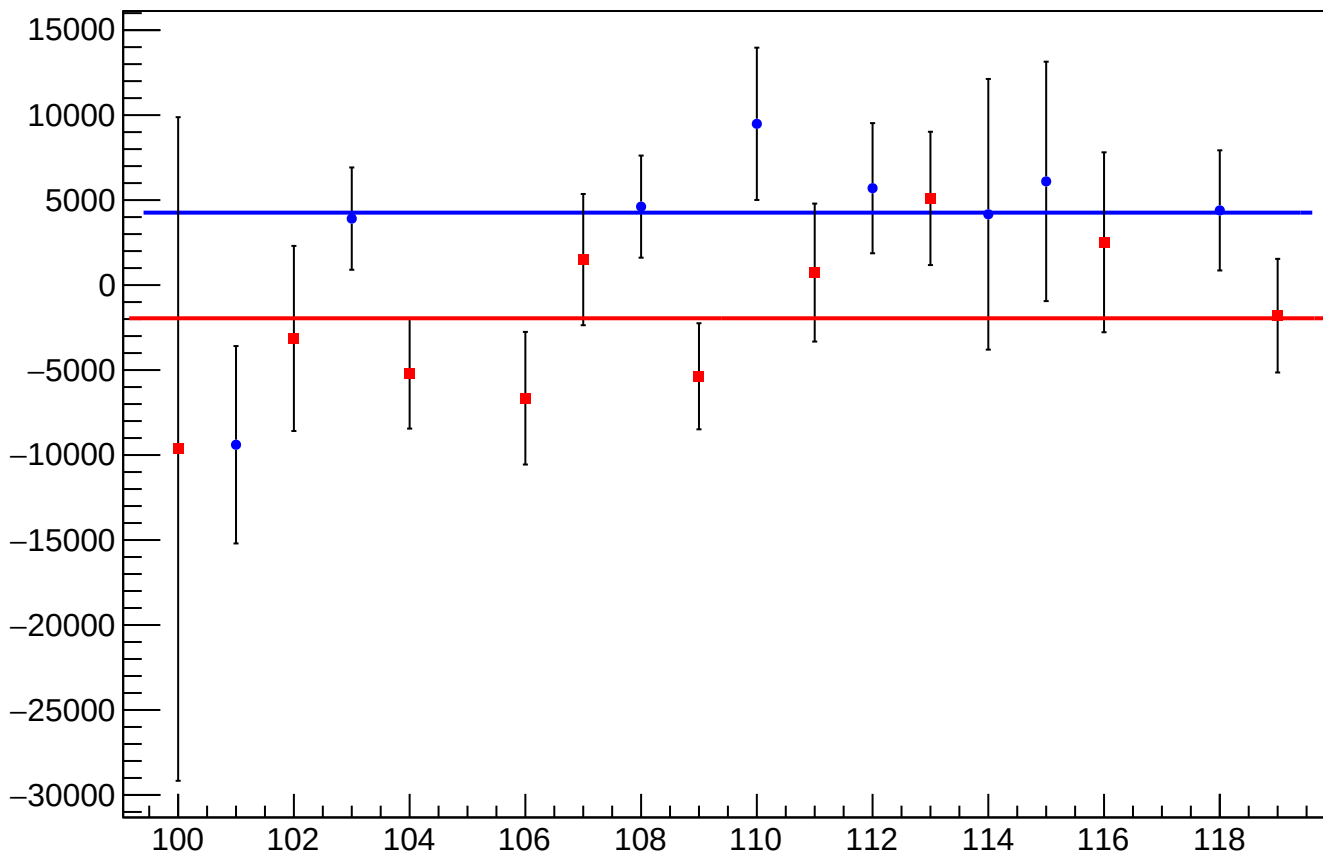
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7240.942 $\pm$ 1.931  $\chi^2$ /NDF: 734389.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_dit\_asym\_atr2\_mean vs Slug



Right In: 4261.710+/-1436.073  $\chi^2$ /NDF: 7.1/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1953.559+/-1272.671  $\chi^2$ /NDF: 9.0/9

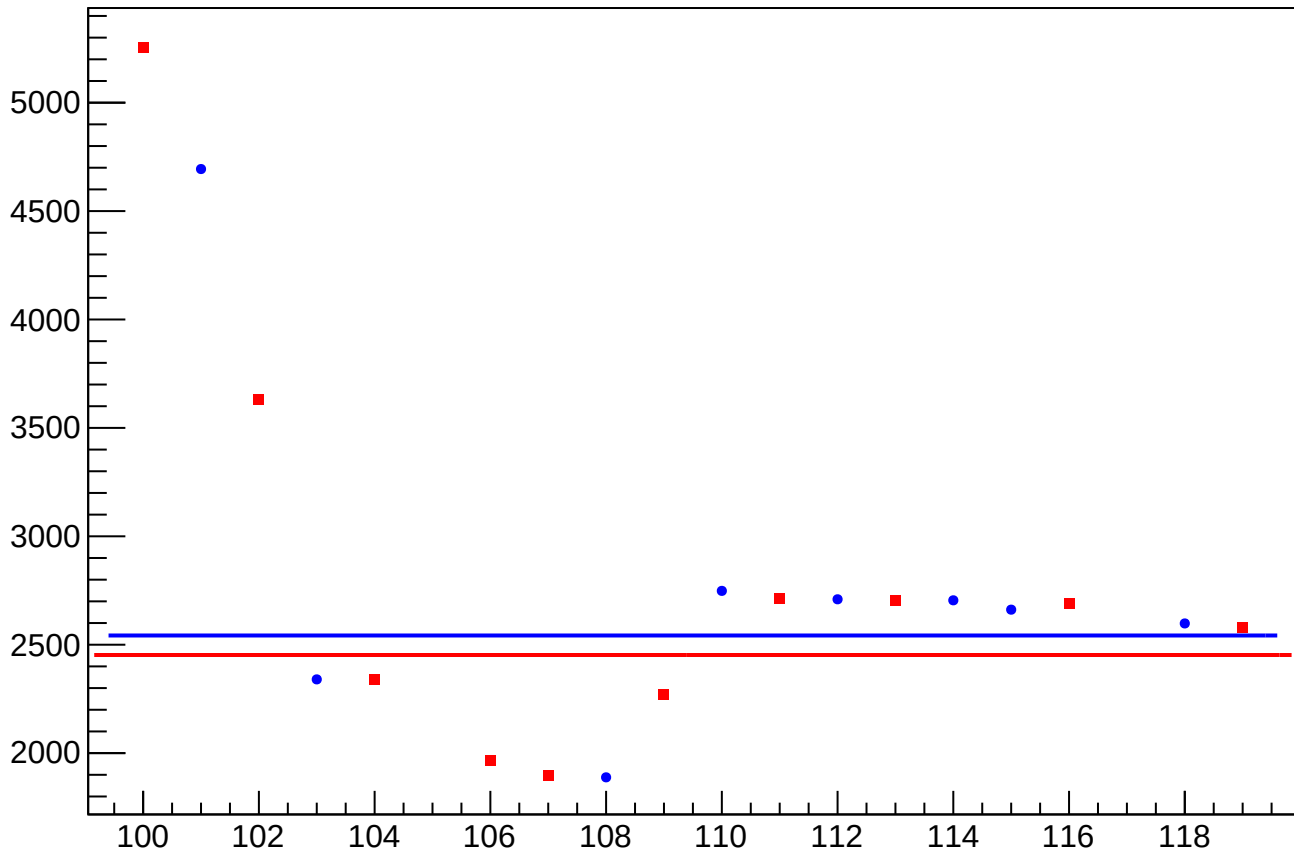
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 780.504+/-952.469  $\chi^2$ /NDF: 26.7/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atr2\_rms vs Slug



Right In: 2542.548 $\pm$ 1.015  $\chi^2$ /NDF: 388335.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2452.565 $\pm$ 0.899  $\chi^2$ /NDF: 240543.5/9

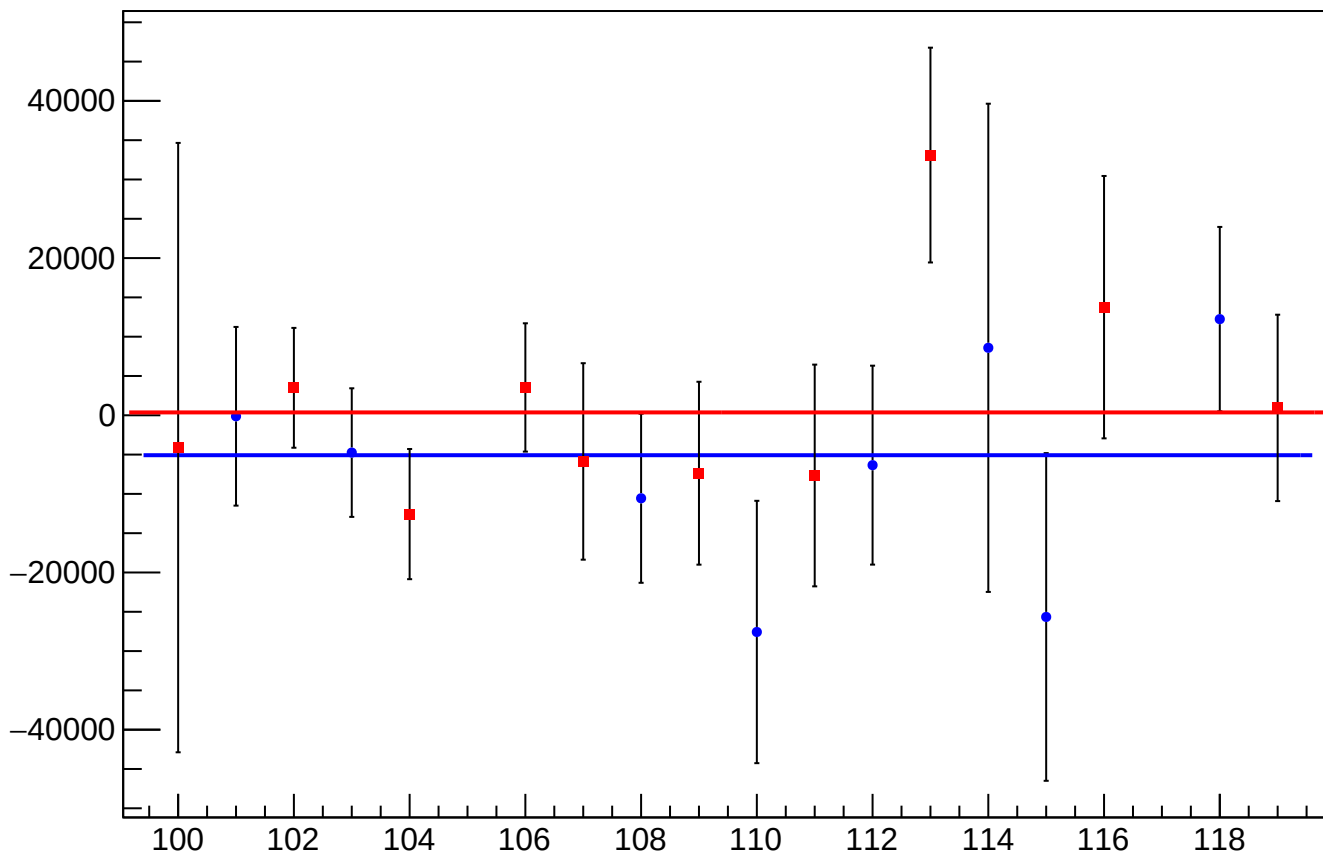
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2492.103 $\pm$ 0.673  $\chi^2$ /NDF: 633281.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_eigen\_dit\_correction\_mean vs Slug



Right In: -5078.884 $\pm$ 4395.034  $\chi^2$ /NDF: 5.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 365.692 $\pm$ 3484.986  $\chi^2$ /NDF: 10.2/9

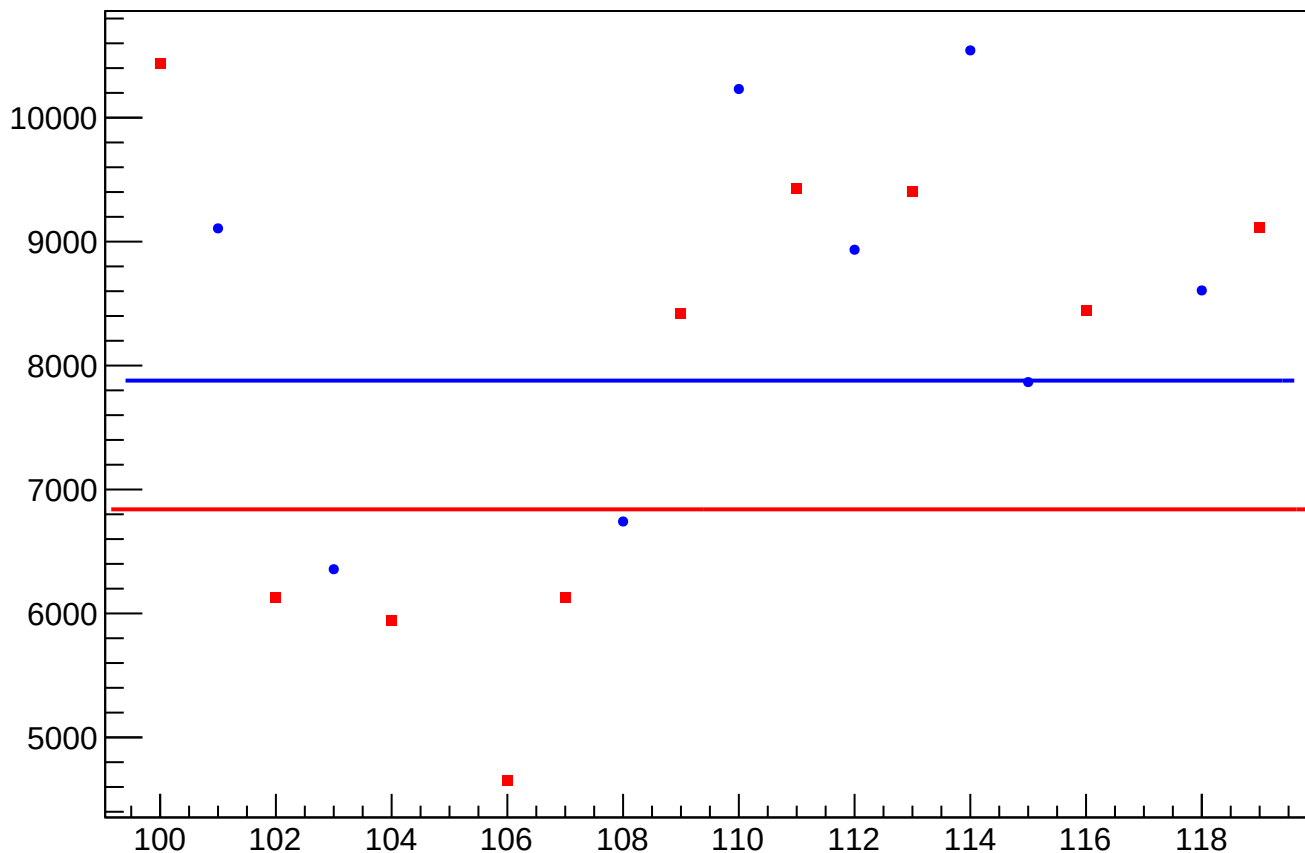
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1736.089 $\pm$ 2730.700  $\chi^2$ /NDF: 16.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_eigen\_dit\_correction\_rms vs Slug



Right In: 7878.731+/-3.108  $\chi^2/\text{NDF}$ : 190997.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6839.917+/-2.464  $\chi^2/\text{NDF}$ : 474787.9/9

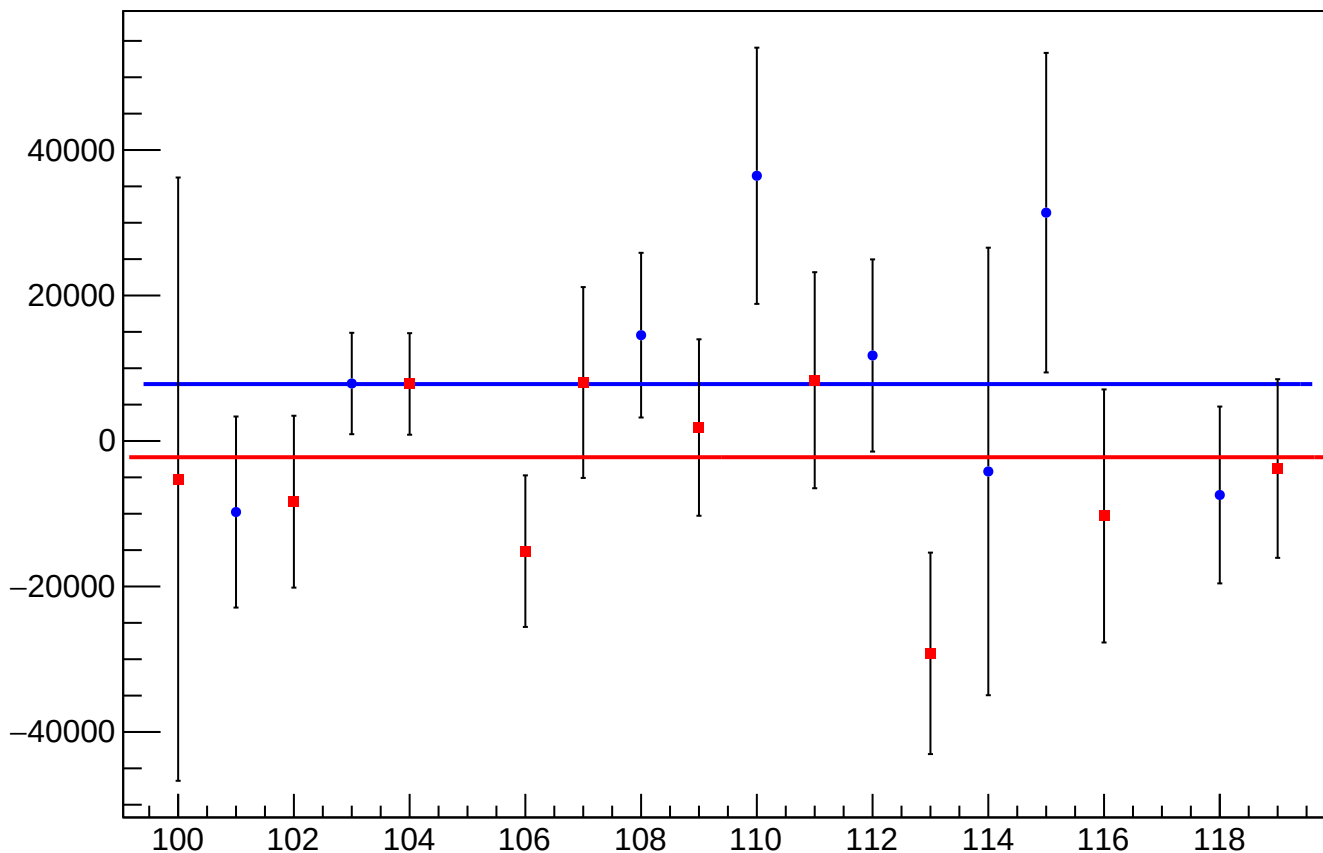
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7240.932+/-1.931  $\chi^2/\text{NDF}$ : 734386.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_mean vs Slug



Right In: 7823.044+/-4341.836  $\chi^2/\text{NDF}$ : 7.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2229.954+/-3785.526  $\chi^2/\text{NDF}$ : 9.1/9

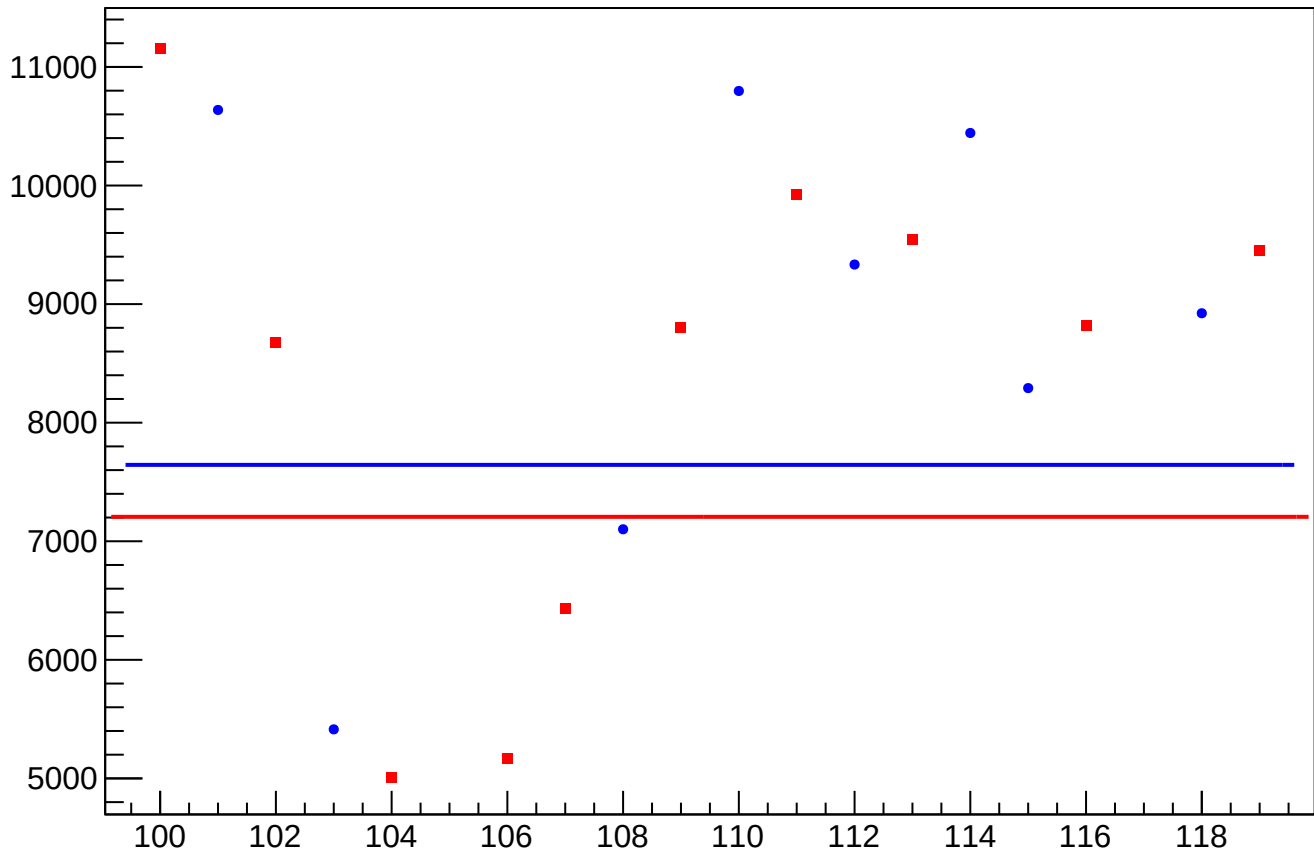
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2111.635+/-2853.317  $\chi^2/\text{NDF}$ : 20.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_rms vs Slug



Right In: 7644.192+/-3.070  $\chi^2/\text{NDF}$ : 450646.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7206.067+/-2.677  $\chi^2/\text{NDF}$ : 572873.3/9

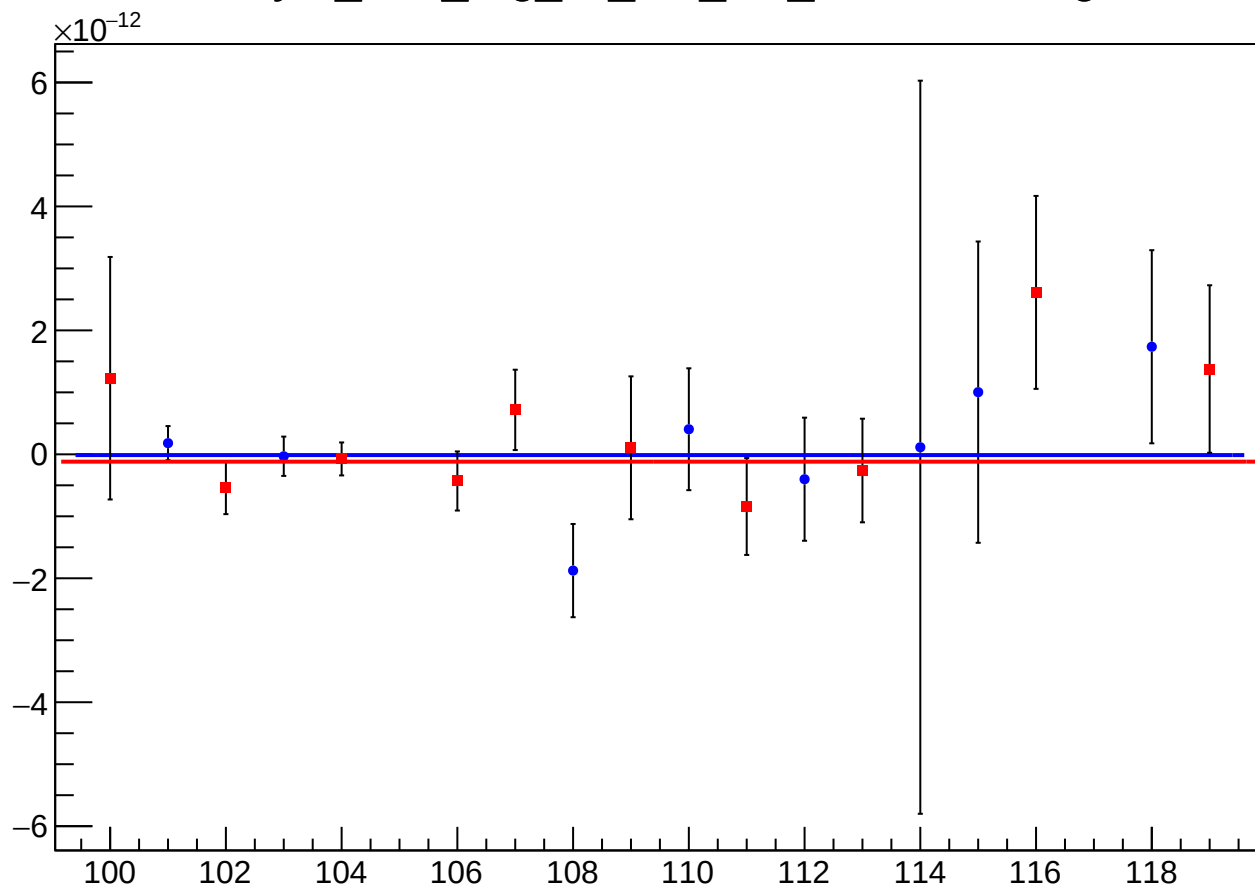
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7395.274+/-2.018  $\chi^2/\text{NDF}$ : 1035090.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_reg\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 8.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 8.8/9

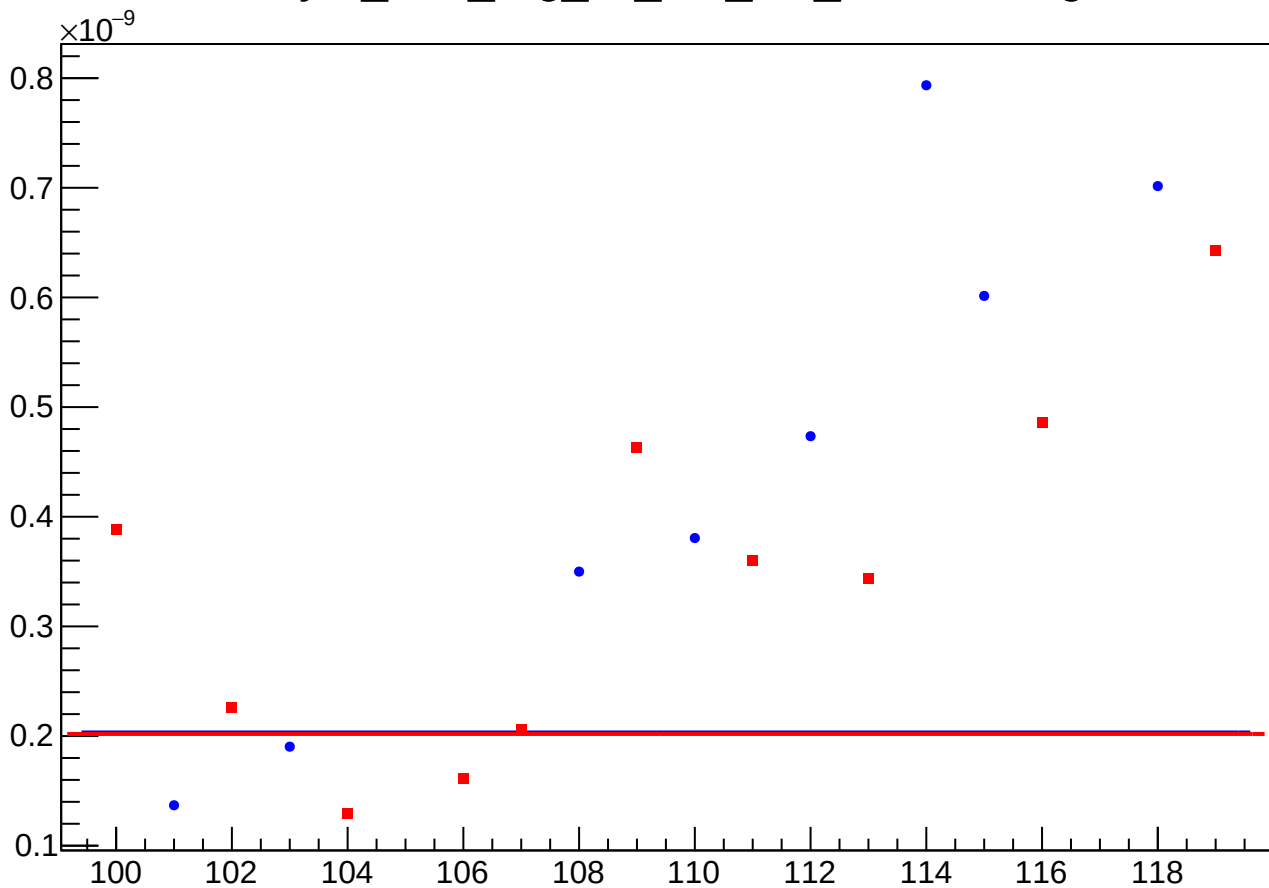
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 17.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 687170.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 710653.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

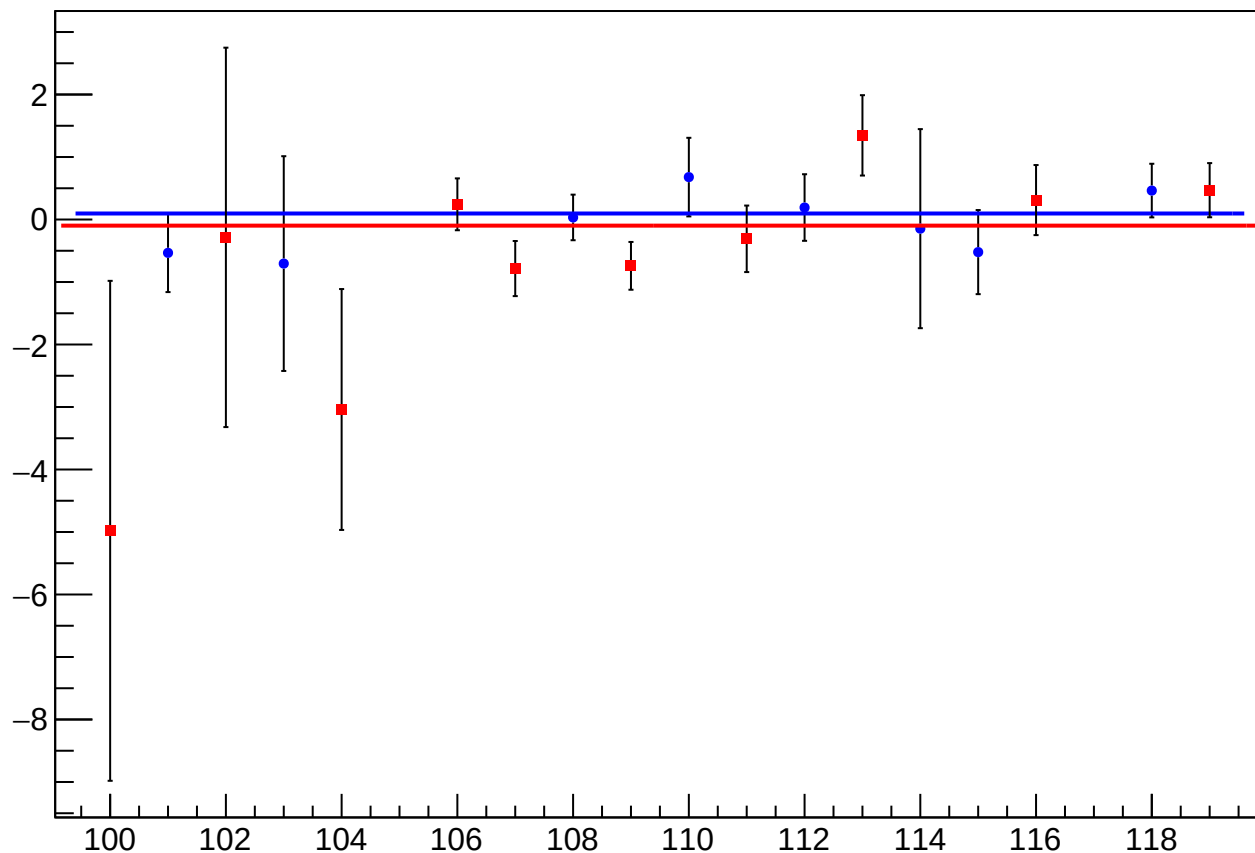
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1397877.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atr2\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.096 $\pm$ 0.202  $\chi^2$ /NDF: 3.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.098 $\pm$ 0.175  $\chi^2$ /NDF: 17.2/9

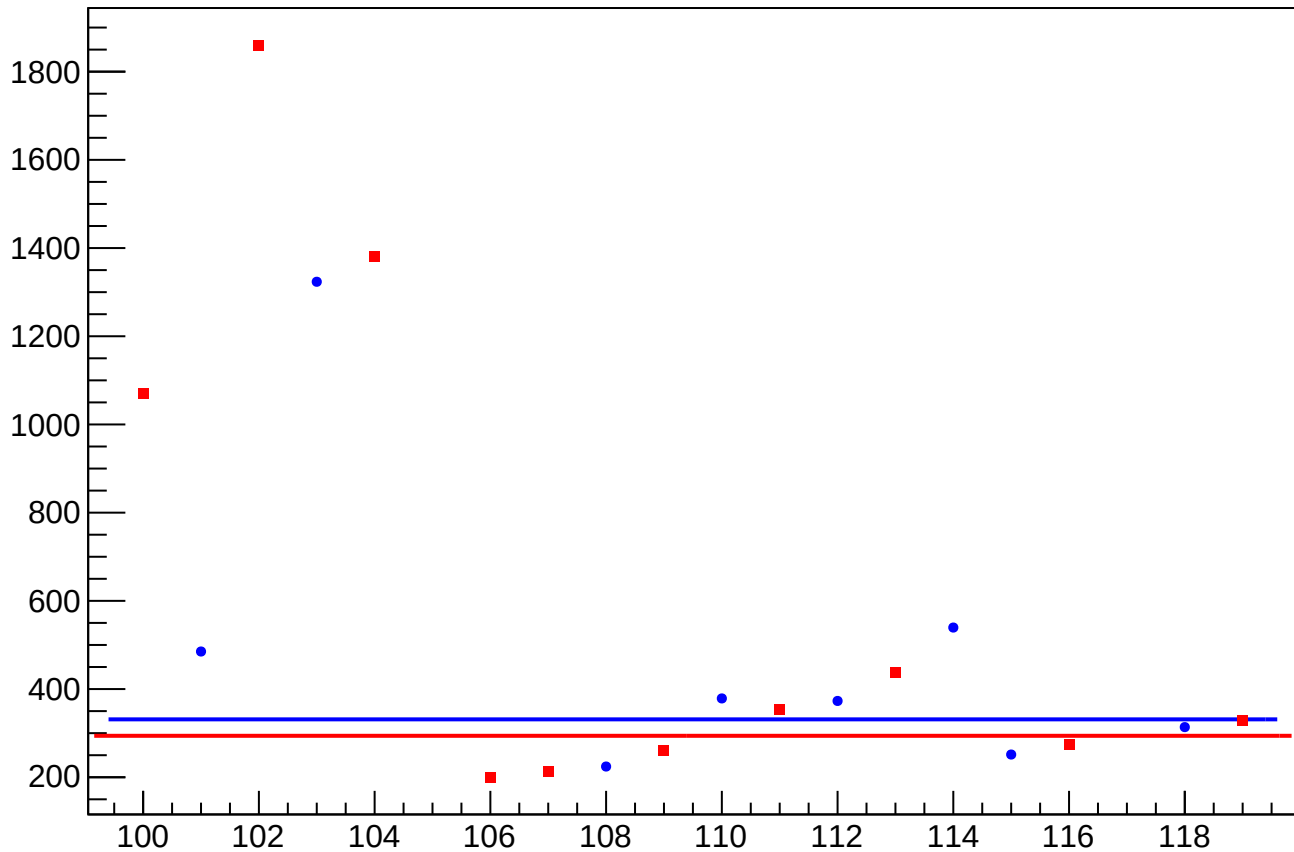
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.015 $\pm$ 0.132  $\chi^2$ /NDF: 21.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 331.295+/-0.143  $\chi^2/\text{NDF}$ : 1048647.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 294.008+/-0.124  $\chi^2/\text{NDF}$ : 1570550.2/9

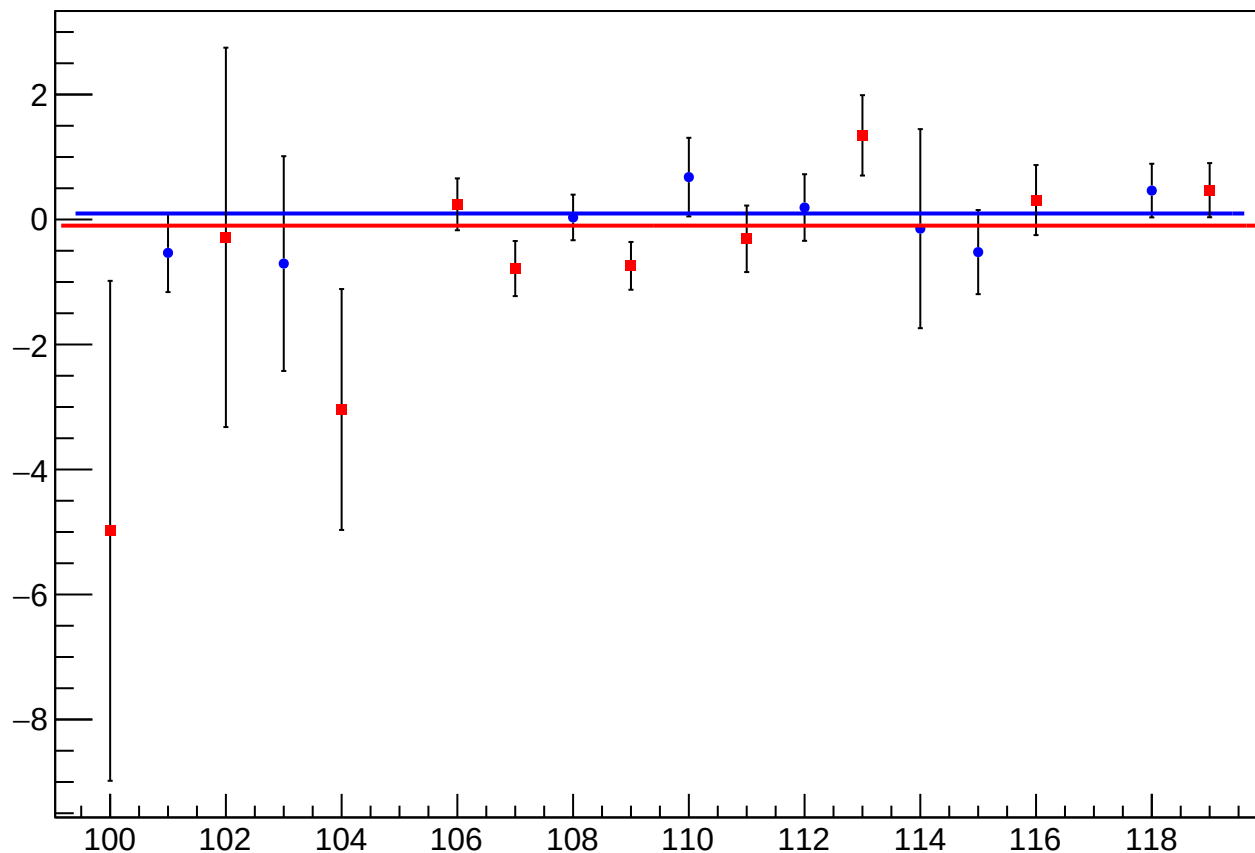
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 309.976+/-0.094  $\chi^2/\text{NDF}$ : 2658127.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.096 $\pm$ 0.202  $\chi^2$ /NDF: 3.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.098 $\pm$ 0.175  $\chi^2$ /NDF: 17.2/9

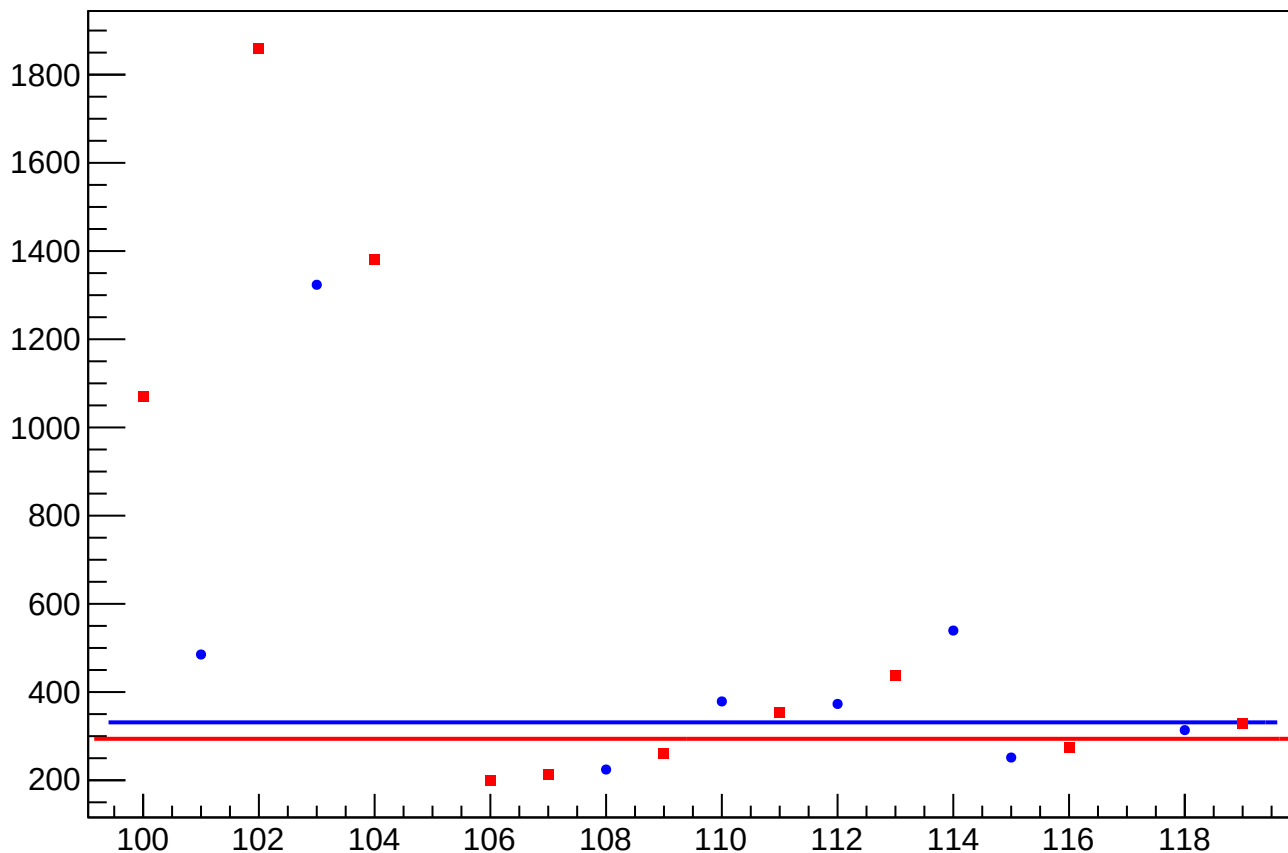
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.015 $\pm$ 0.132  $\chi^2$ /NDF: 21.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 331.295+/-0.143  $\chi^2/\text{NDF}$ : 1048647.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 294.008+/-0.124  $\chi^2/\text{NDF}$ : 1570550.2/9

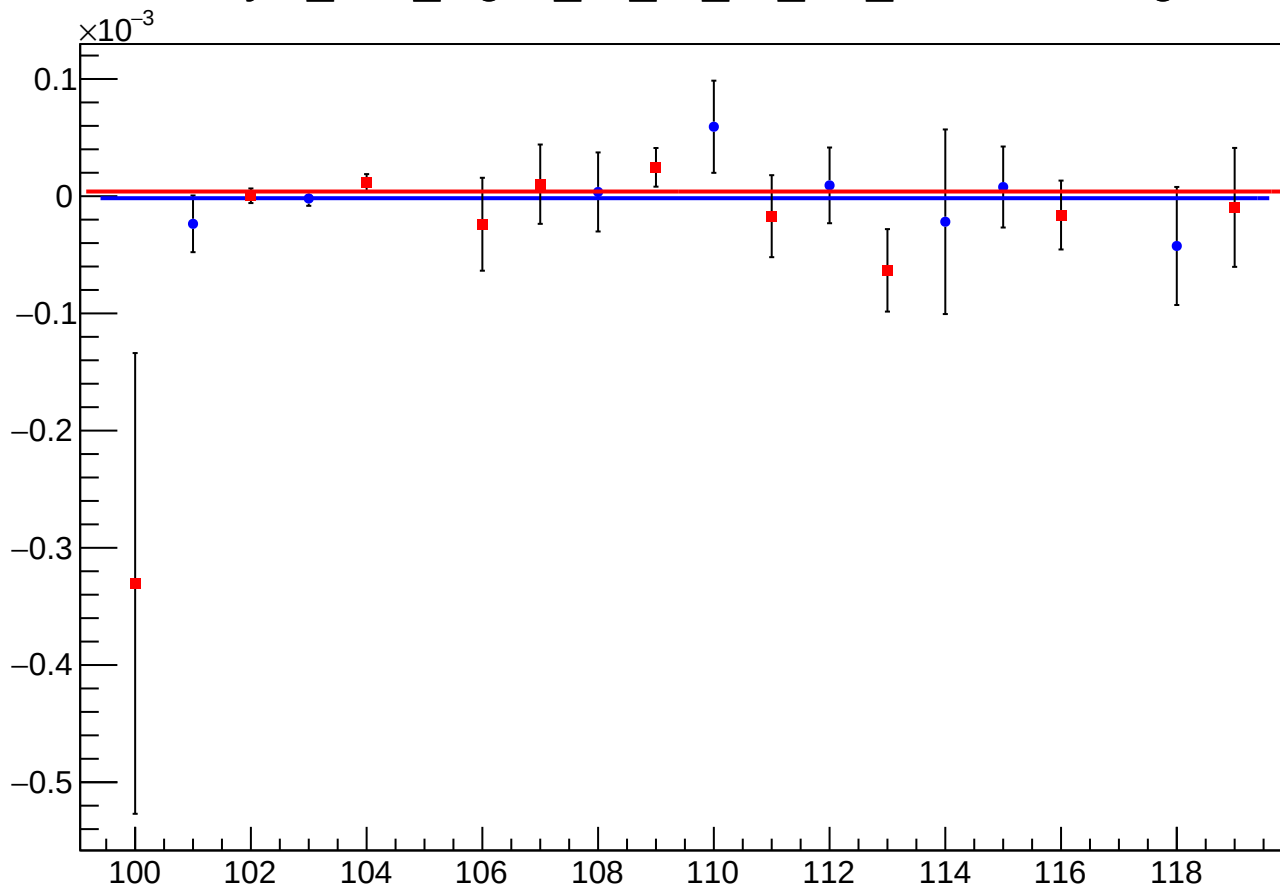
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 309.976+/-0.094  $\chi^2/\text{NDF}$ : 2658127.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.9/9

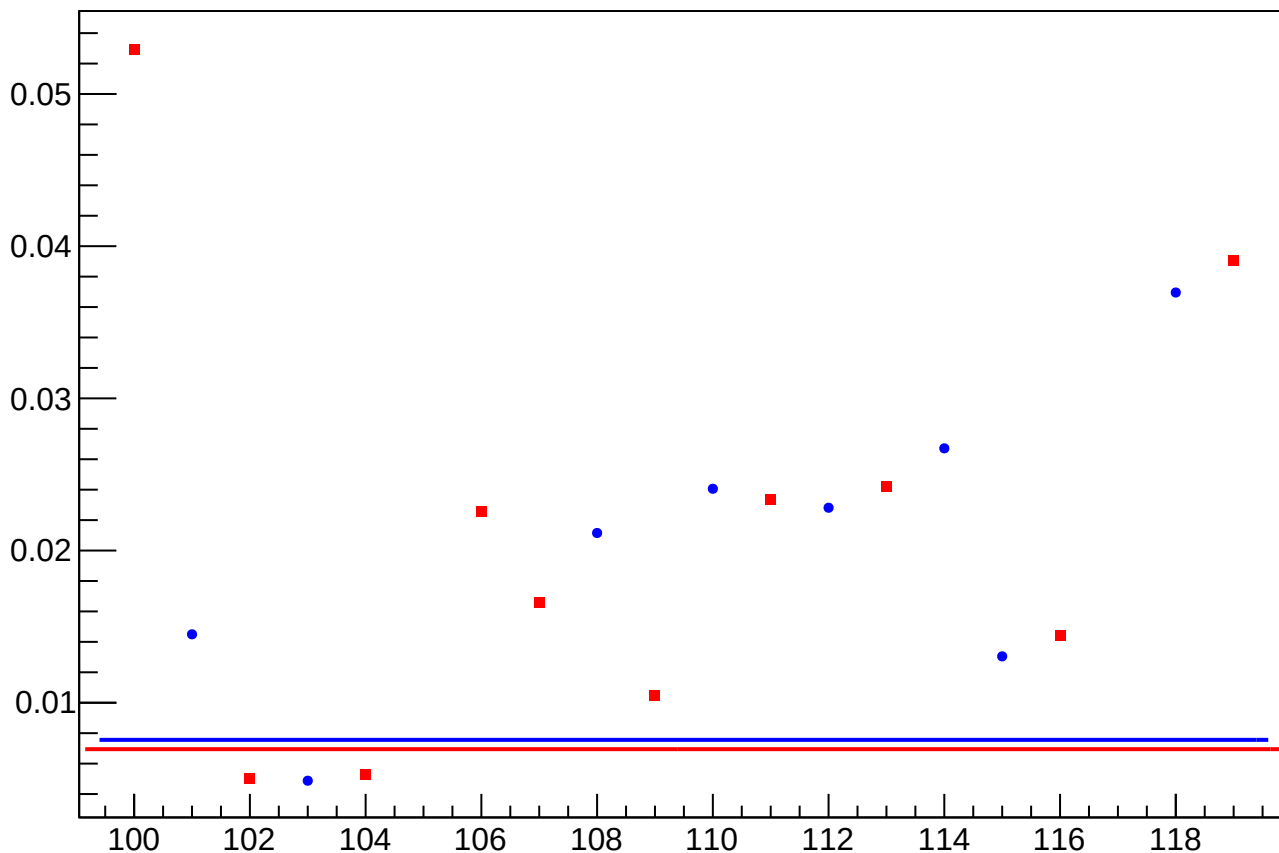
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 2505110.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 2824543.1/9

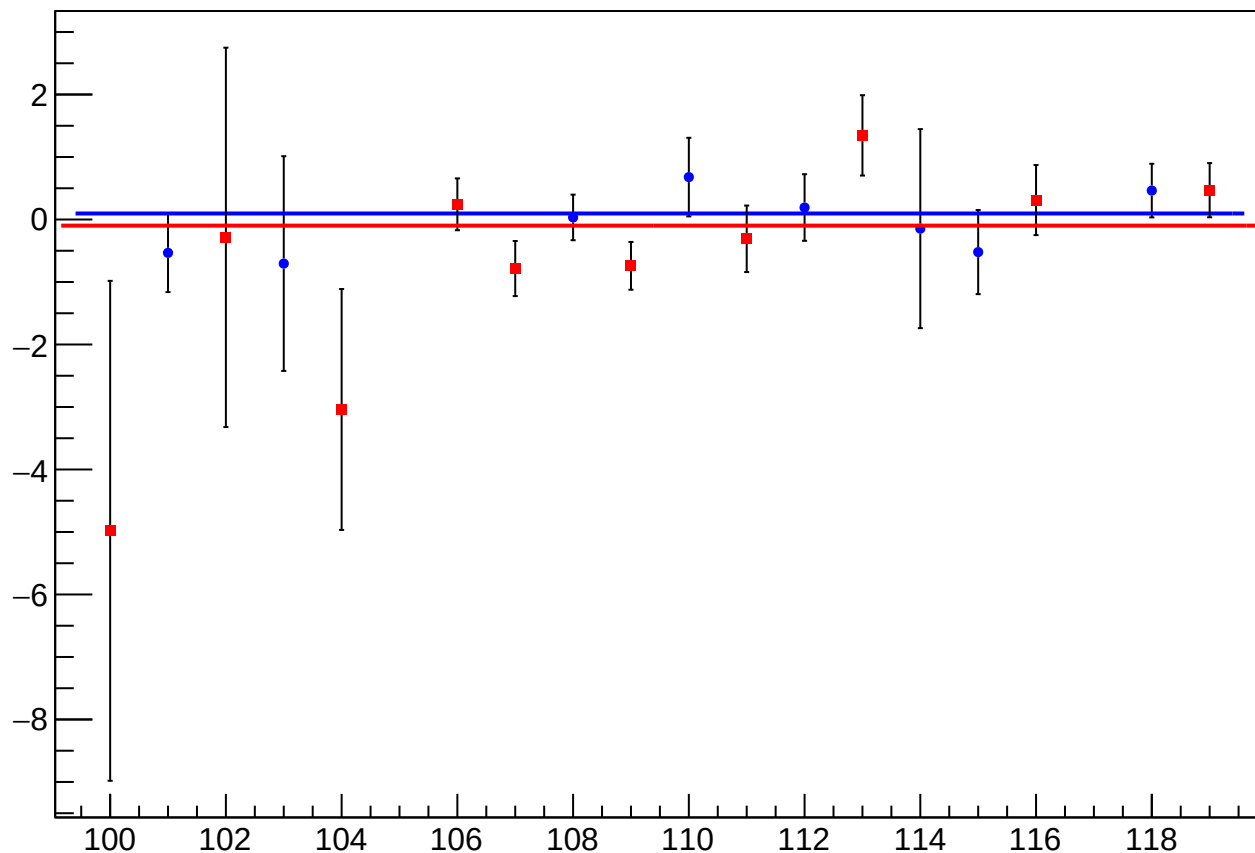
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 5344319.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.096 $\pm$ 0.202  $\chi^2$ /NDF: 3.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.098 $\pm$ 0.175  $\chi^2$ /NDF: 17.2/9

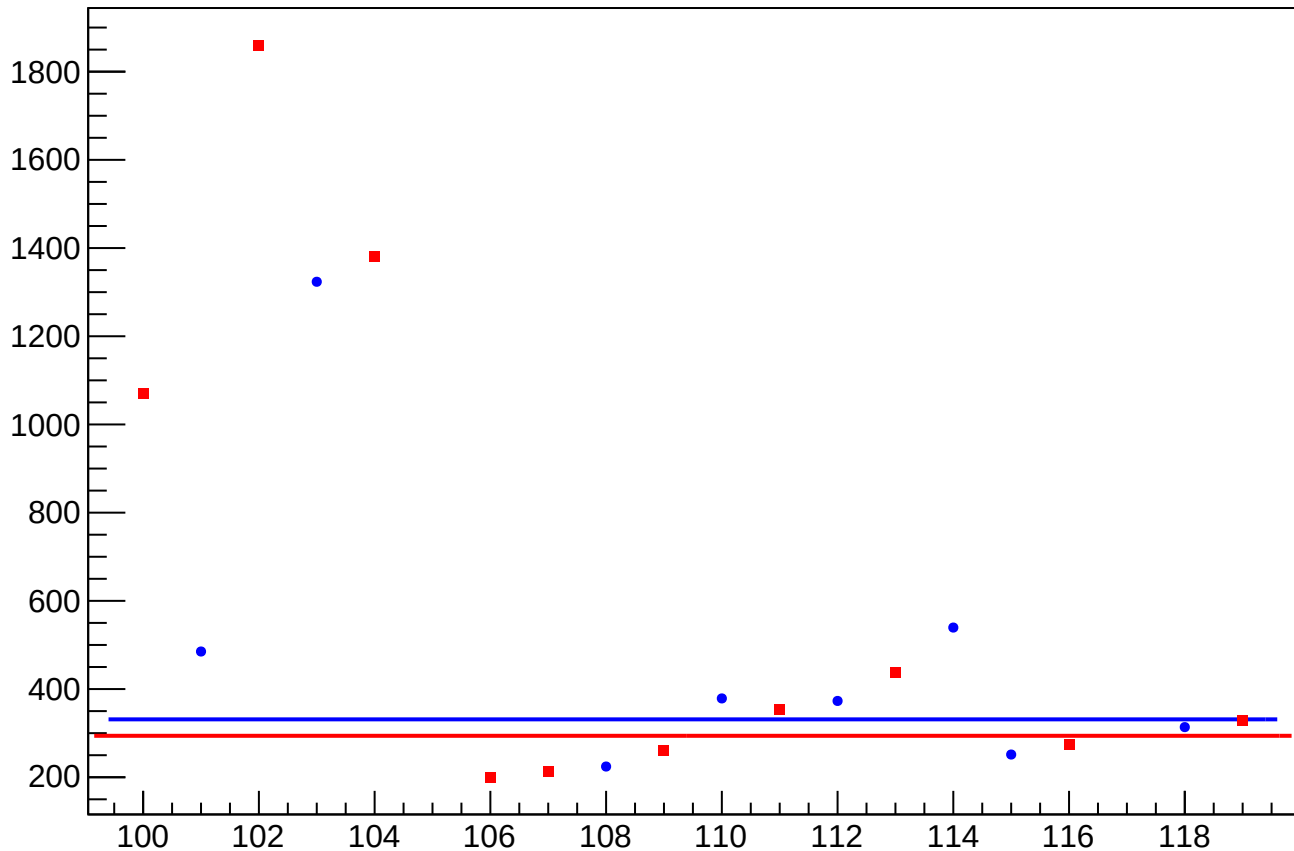
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.015 $\pm$ 0.132  $\chi^2$ /NDF: 21.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 331.291 $\pm$ 0.143  $\chi^2$ /NDF: 1048671.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 294.009 $\pm$ 0.124  $\chi^2$ /NDF: 1570551.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

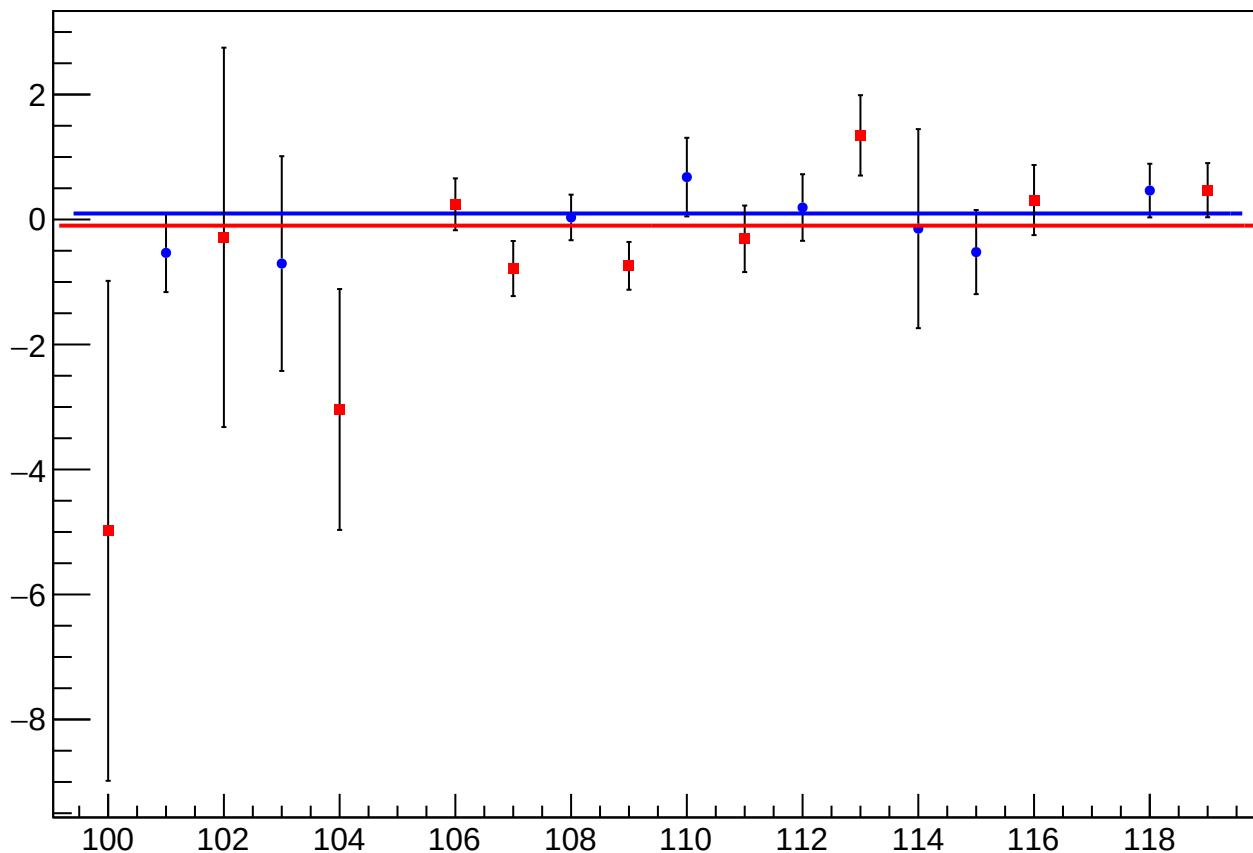
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 309.976 $\pm$ 0.094  $\chi^2$ /NDF: 2658144.0/17

- 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: 0.096 $\pm$ 0.202  $\chi^2$ /NDF: 3.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.098 $\pm$ 0.175  $\chi^2$ /NDF: 17.2/9

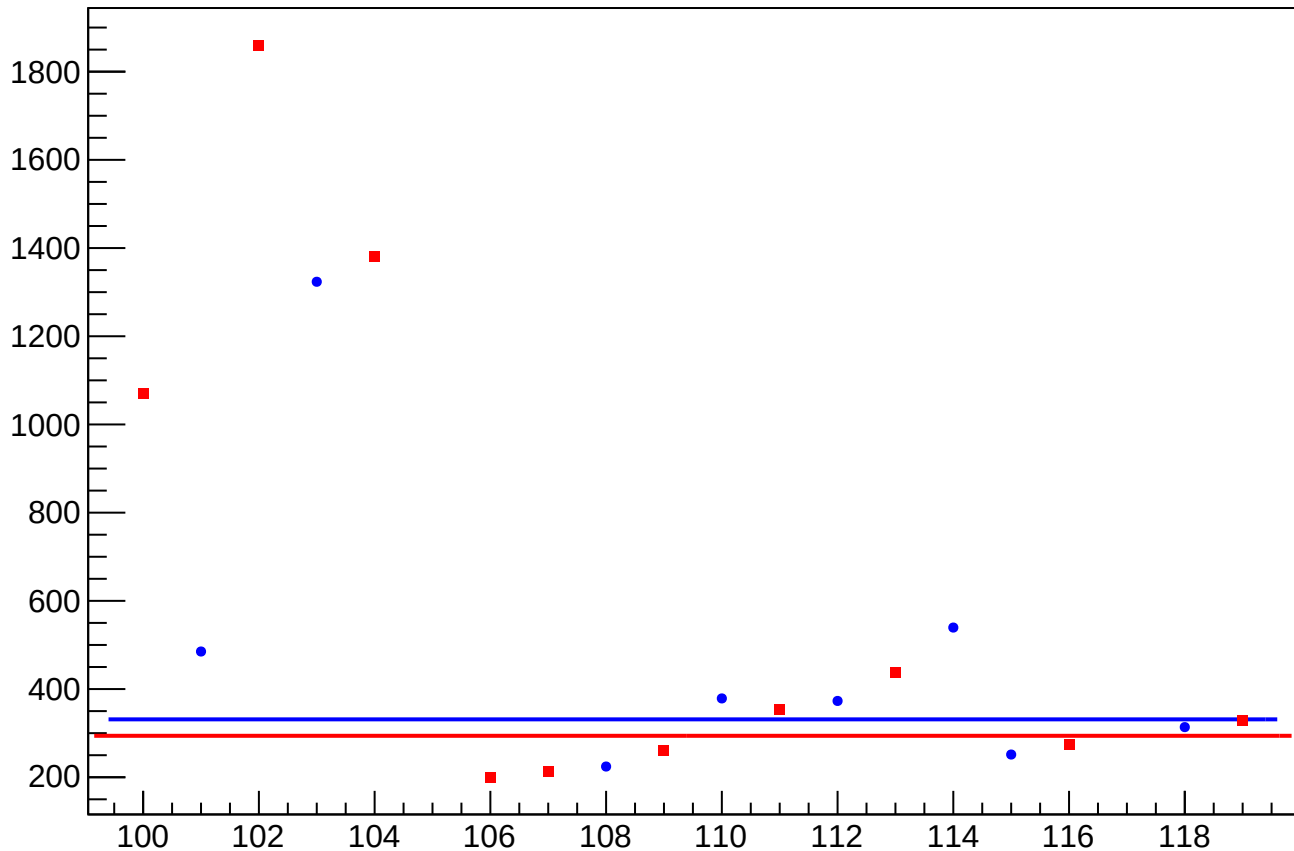
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.015 $\pm$ 0.132  $\chi^2$ /NDF: 21.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr2\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 331.291+/-0.143  $\chi^2/\text{NDF}$ : 1048671.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 294.009+/-0.124  $\chi^2/\text{NDF}$ : 1570551.0/9

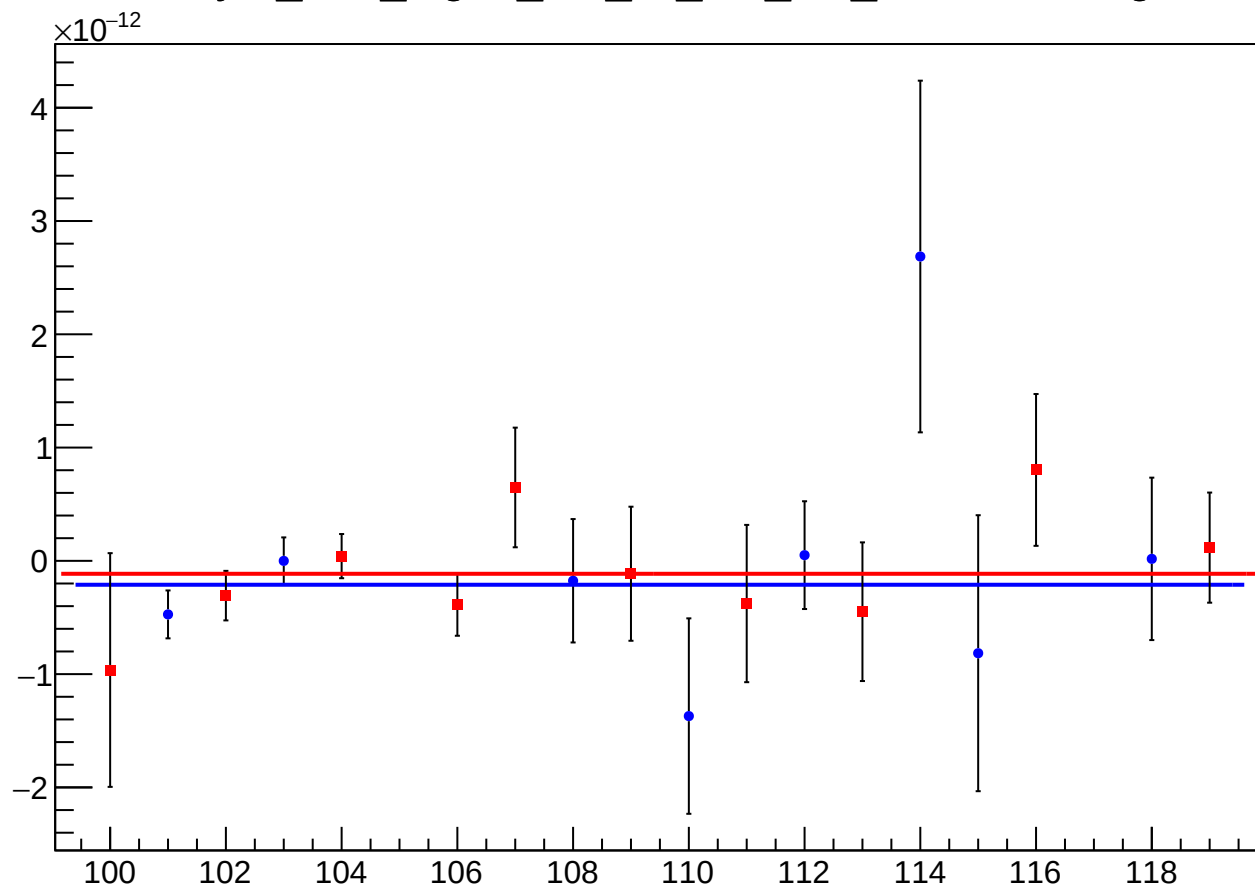
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 309.976+/-0.094  $\chi^2/\text{NDF}$ : 2658144.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 8.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 7.7/9

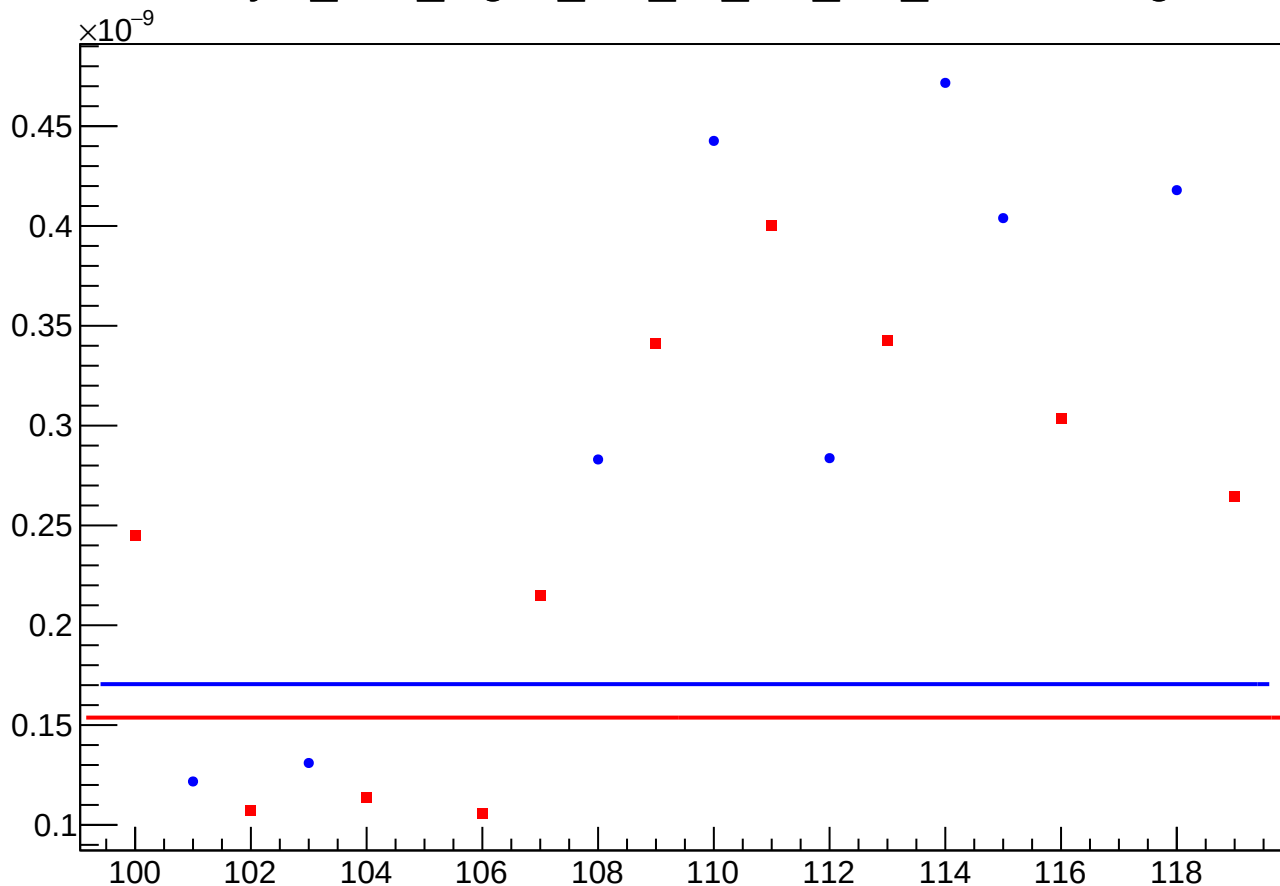
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 16.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 963502.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1124637.6/9

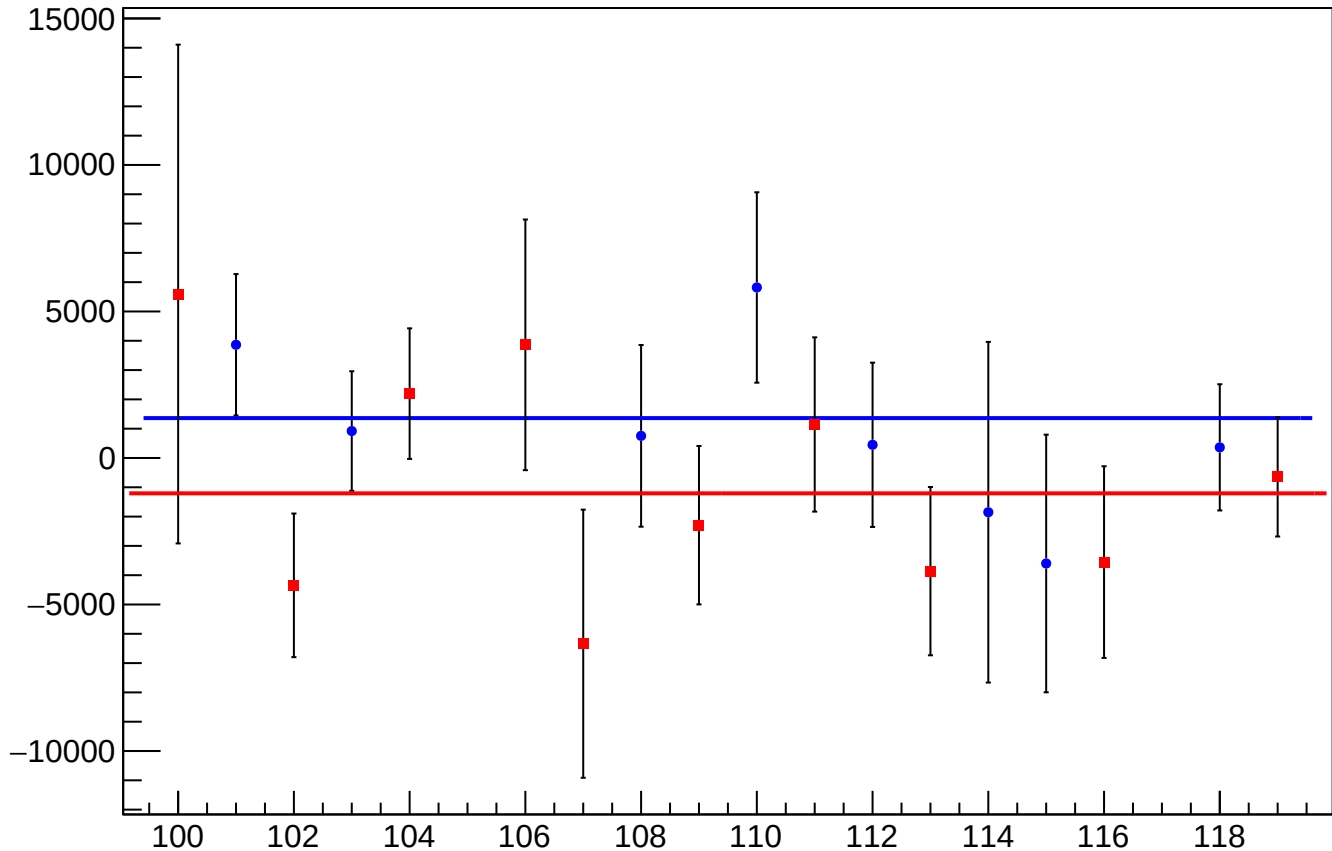
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2106877.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_mean vs Slug



Right In: 1361.268+/-982.816  $\chi^2/\text{NDF}$ : 4.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1206.693+/-916.301  $\chi^2/\text{NDF}$ : 9.5/9

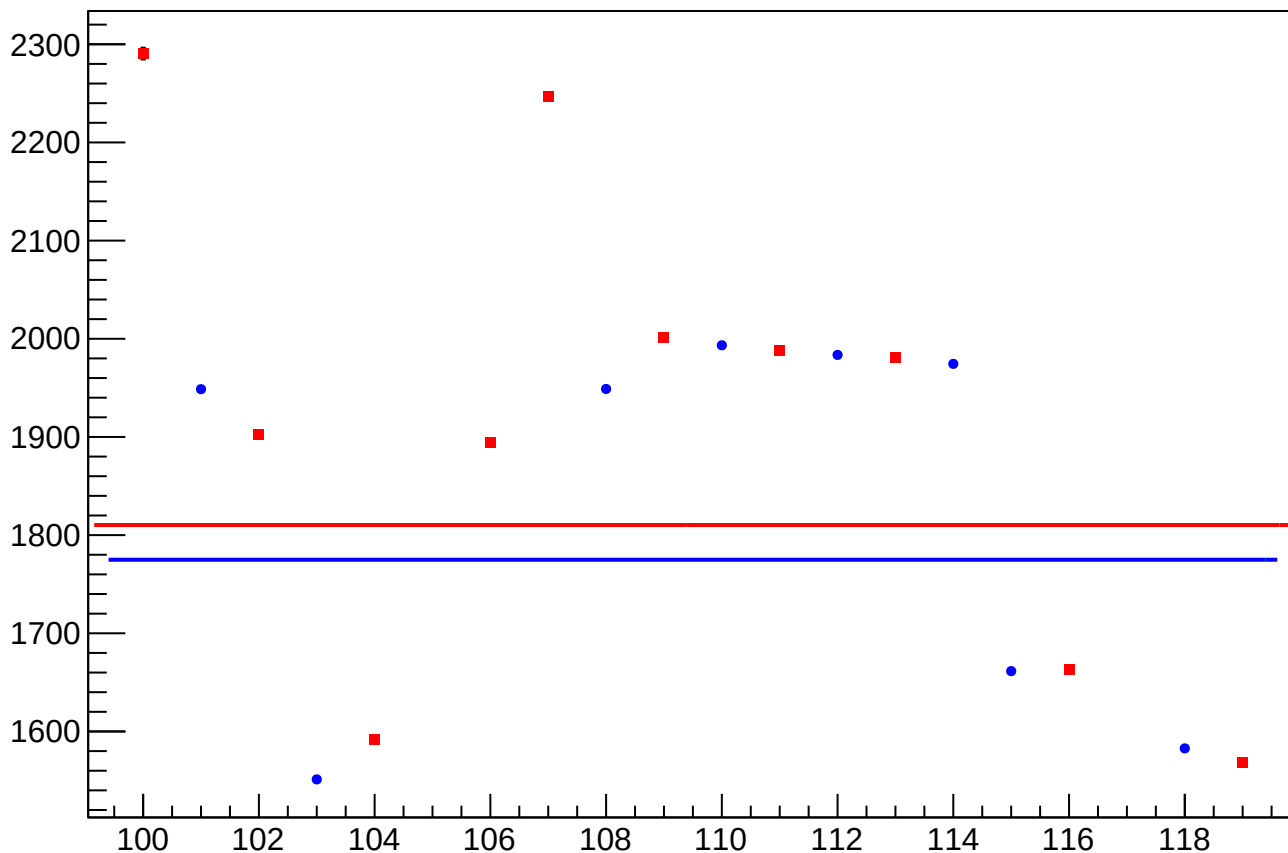
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12.543+/-670.205  $\chi^2/\text{NDF}$ : 18.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_rms vs Slug



Right In: 1774.933+/-0.695  $\chi^2/\text{NDF}$ : 80474.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1810.277+/-0.642  $\chi^2/\text{NDF}$ : 104252.3/9

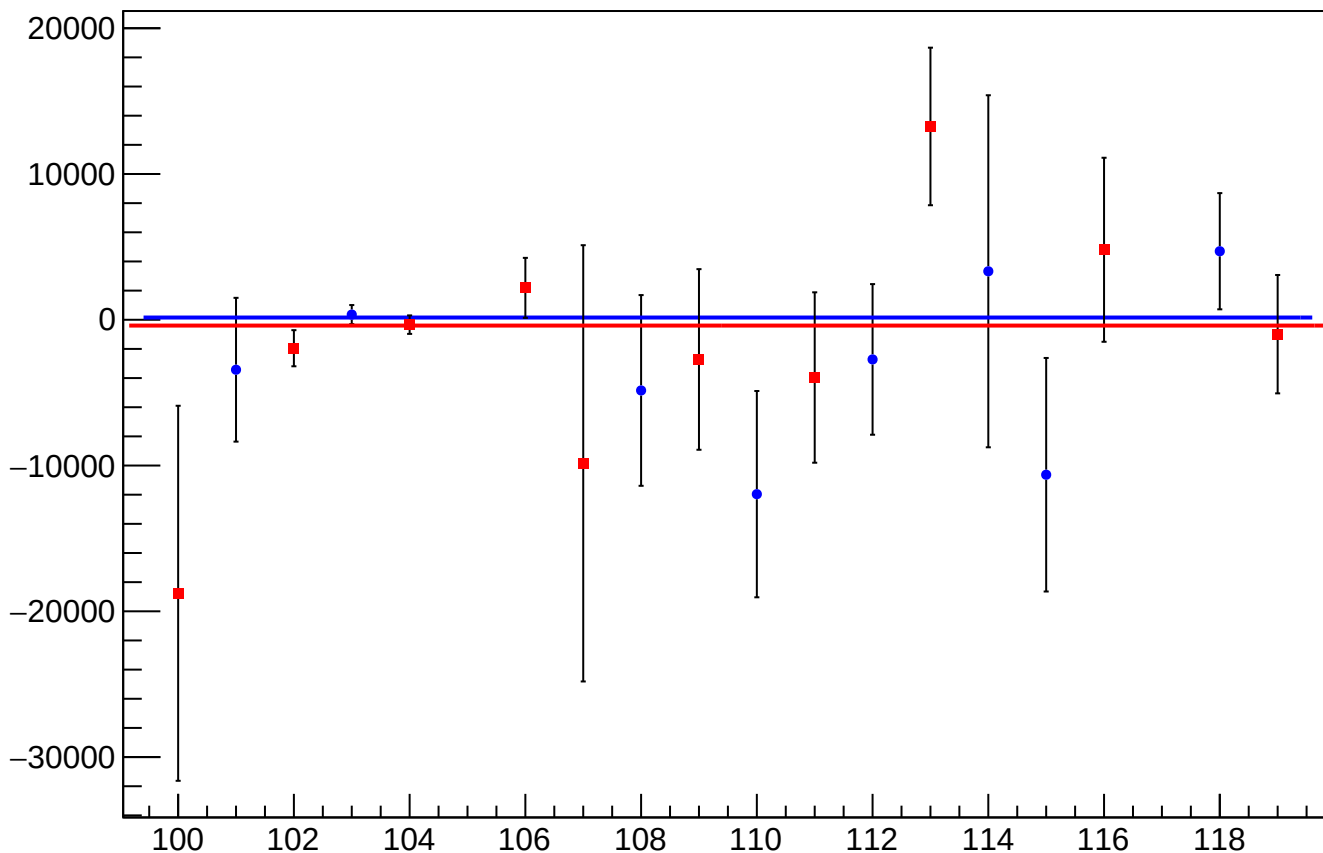
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1794.010+/-0.471  $\chi^2/\text{NDF}$ : 186123.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_reg\_correction\_mean vs Slug



Right In: 153.406 $\pm$ 626.792  $\chi^2$ /NDF: 7.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -398.277 $\pm$ 529.978  $\chi^2$ /NDF: 13.2/9

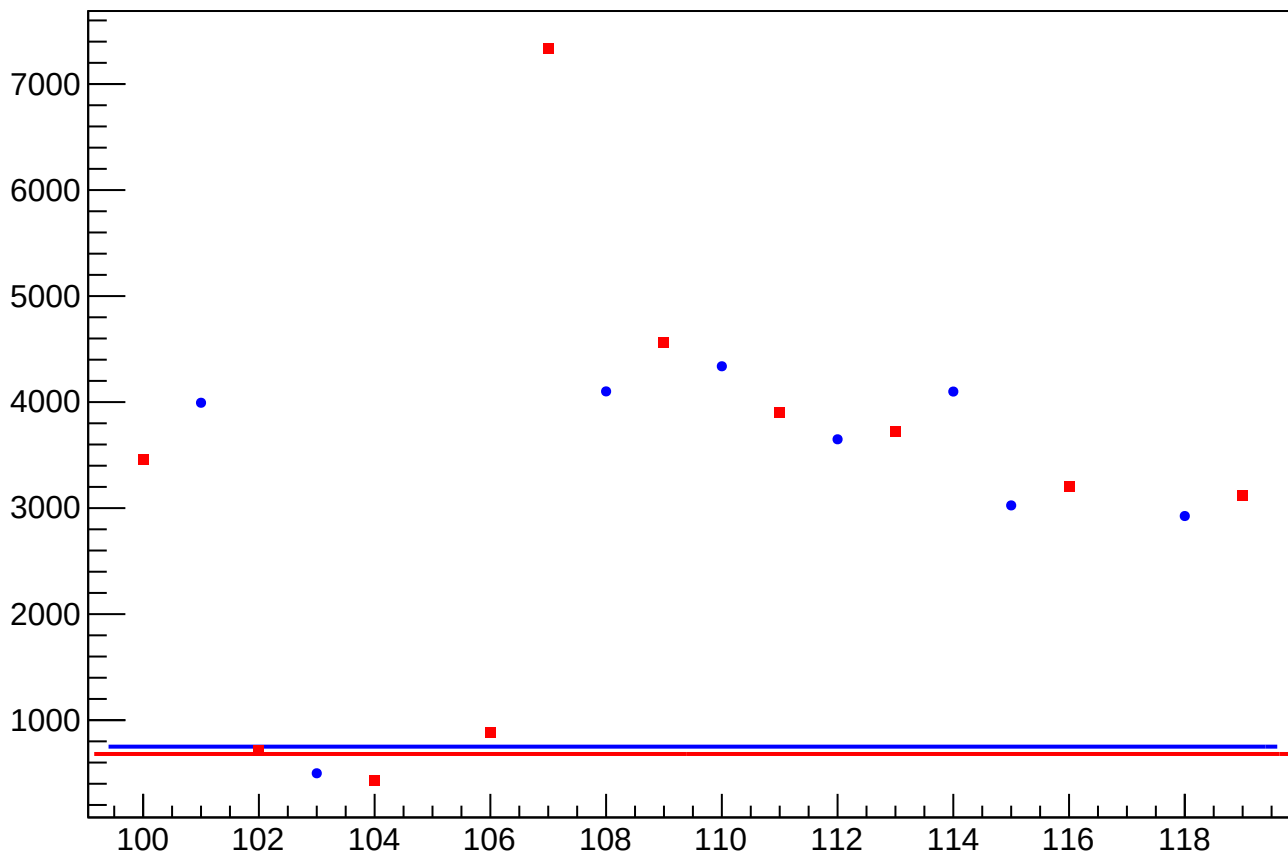
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -168.286 $\pm$ 404.700  $\chi^2$ /NDF: 21.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_reg\_correction\_rms vs Slug



Right In: 750.083+/-0.443  $\chi^2/\text{NDF}$ : 3739560.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 680.849+/-0.375  $\chi^2/\text{NDF}$ : 3893962.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

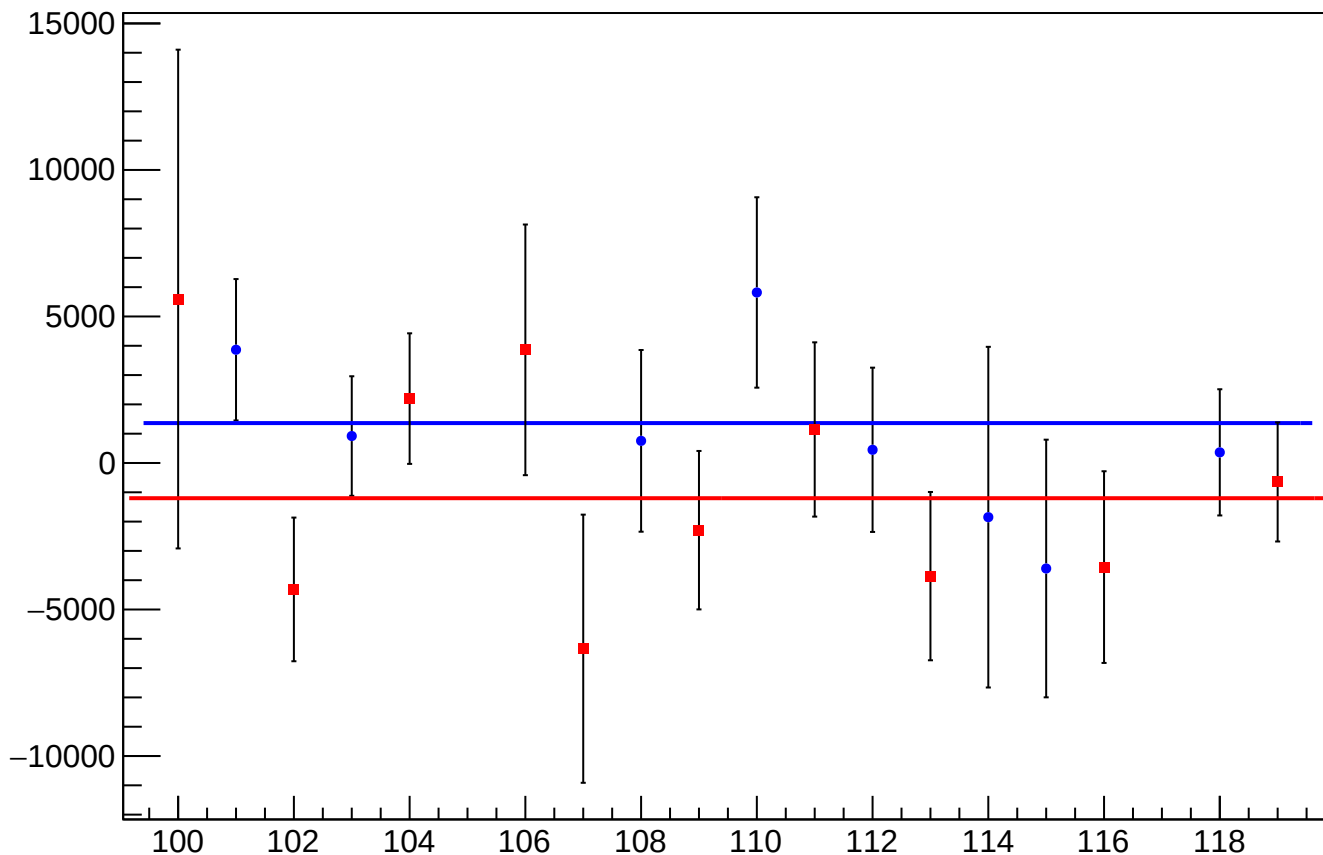
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 709.712+/-0.286  $\chi^2/\text{NDF}$ : 7647752.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atl\_avg\_mean vs Slug



Right In: 1361.622+/-982.816  $\chi^2/\text{NDF}$ : 4.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1201.762+/-916.316  $\chi^2/\text{NDF}$ : 9.5/9

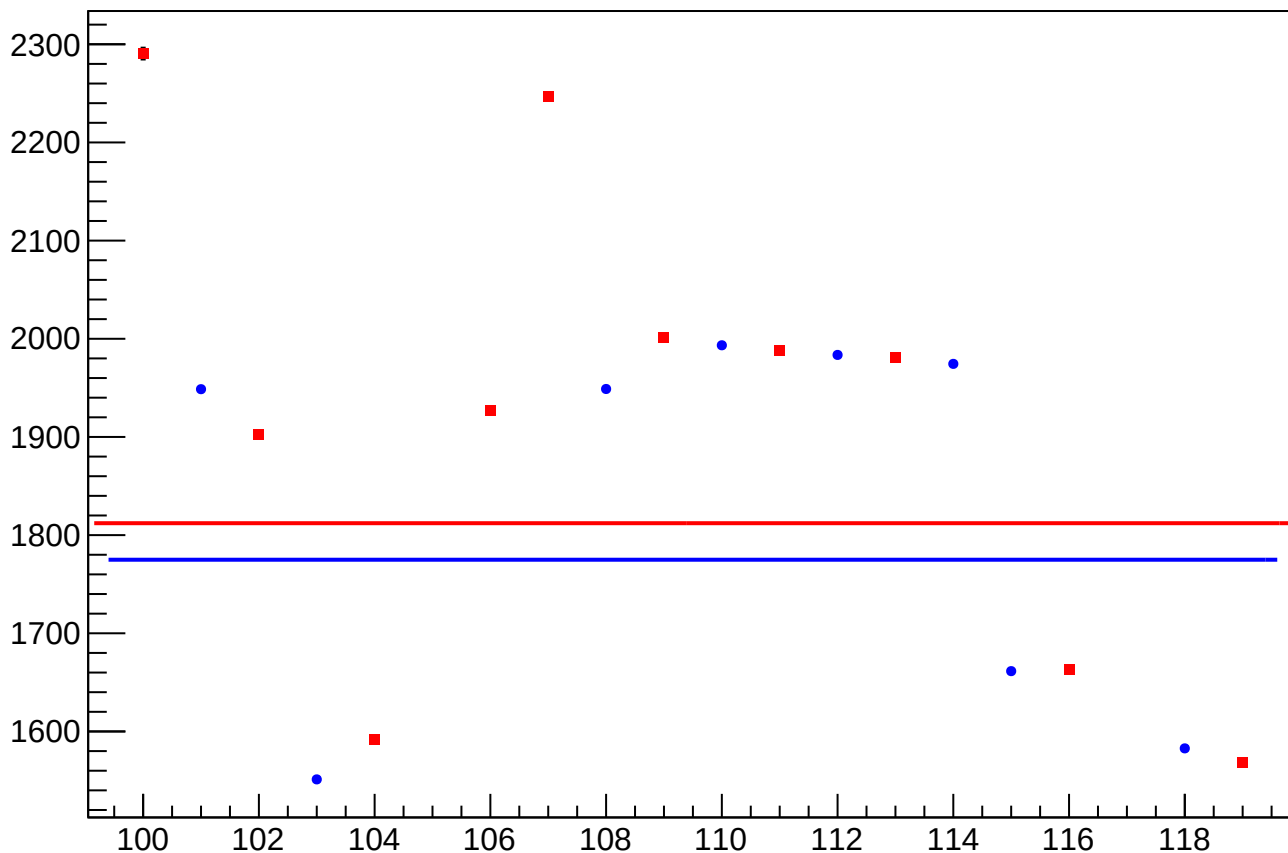
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.720+/-670.211  $\chi^2/\text{NDF}$ : 18.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_avg\_rms vs Slug



Right In: 1774.932+/-0.695  $\chi^2/\text{NDF}$ : 80475.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1812.144+/-0.642  $\chi^2/\text{NDF}$ : 105198.9/9

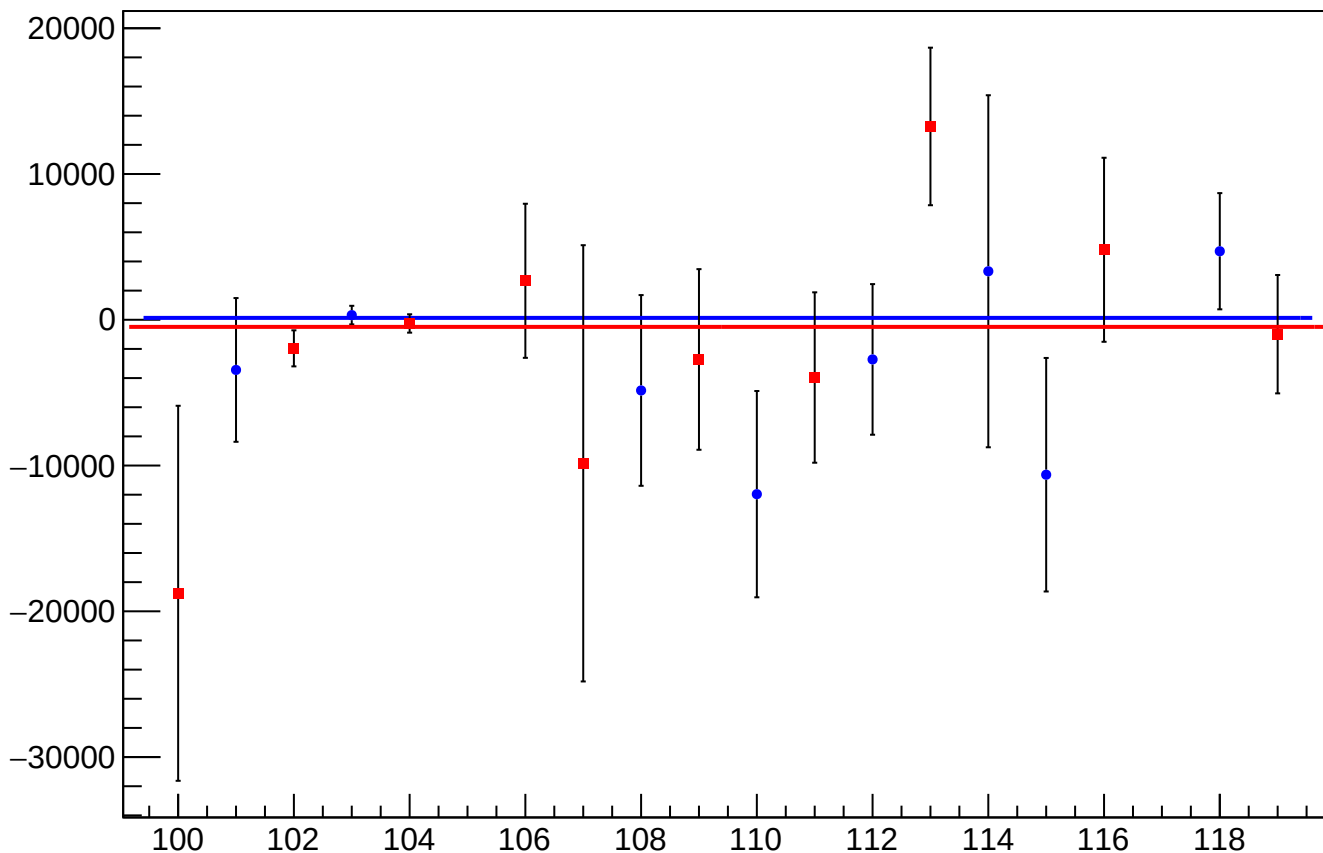
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1794.999+/-0.472  $\chi^2/\text{NDF}$ : 187220.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_cor\_correction\_mean vs Slug



Right In: 129.805 $\pm$ 612.278  $\chi^2$ /NDF: 7.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -487.783 $\pm$ 542.697  $\chi^2$ /NDF: 12.0/9

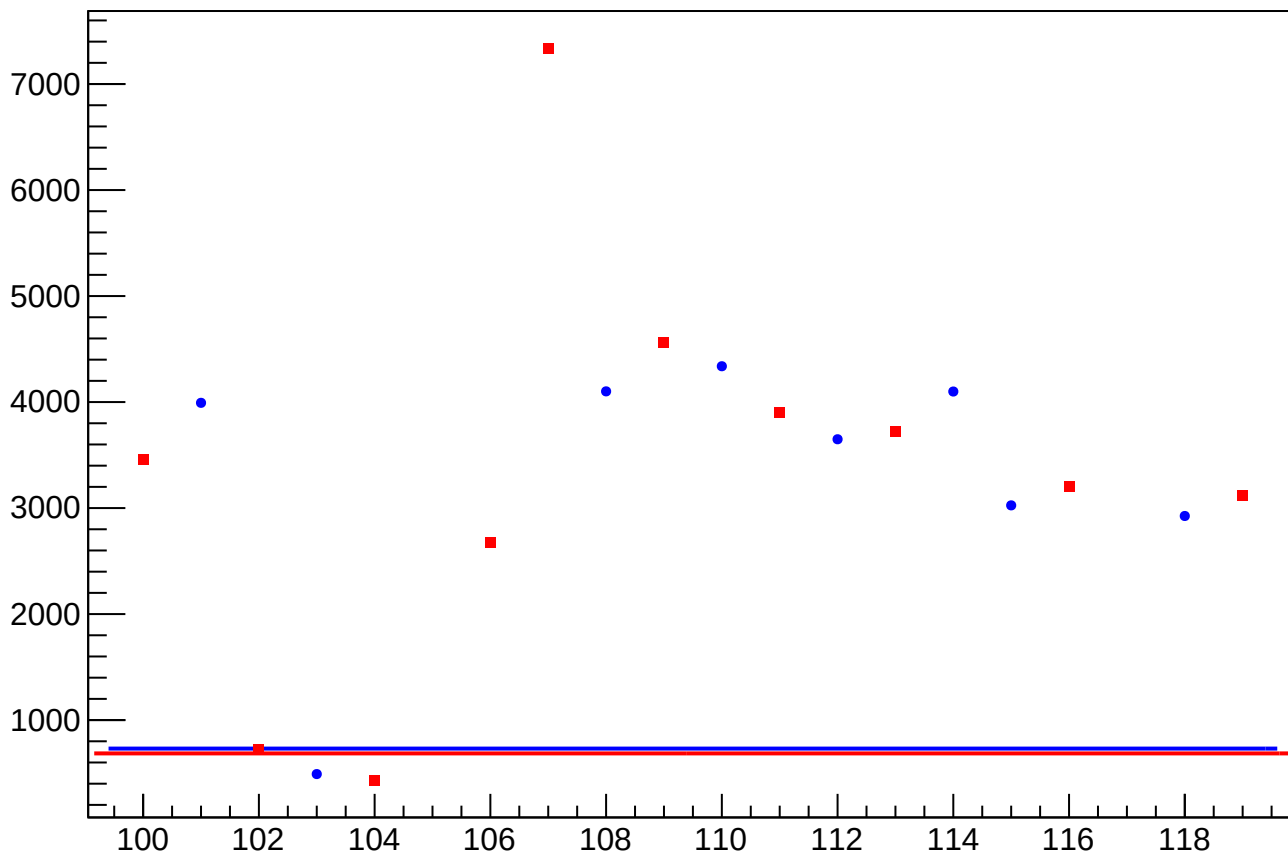
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -216.061 $\pm$ 406.127  $\chi^2$ /NDF: 20.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_cor\_correction\_rms vs Slug



Right In: 731.083+/-0.433  $\chi^2/\text{NDF}$ : 3773389.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 685.669+/-0.384  $\chi^2/\text{NDF}$ : 4165058.6/9

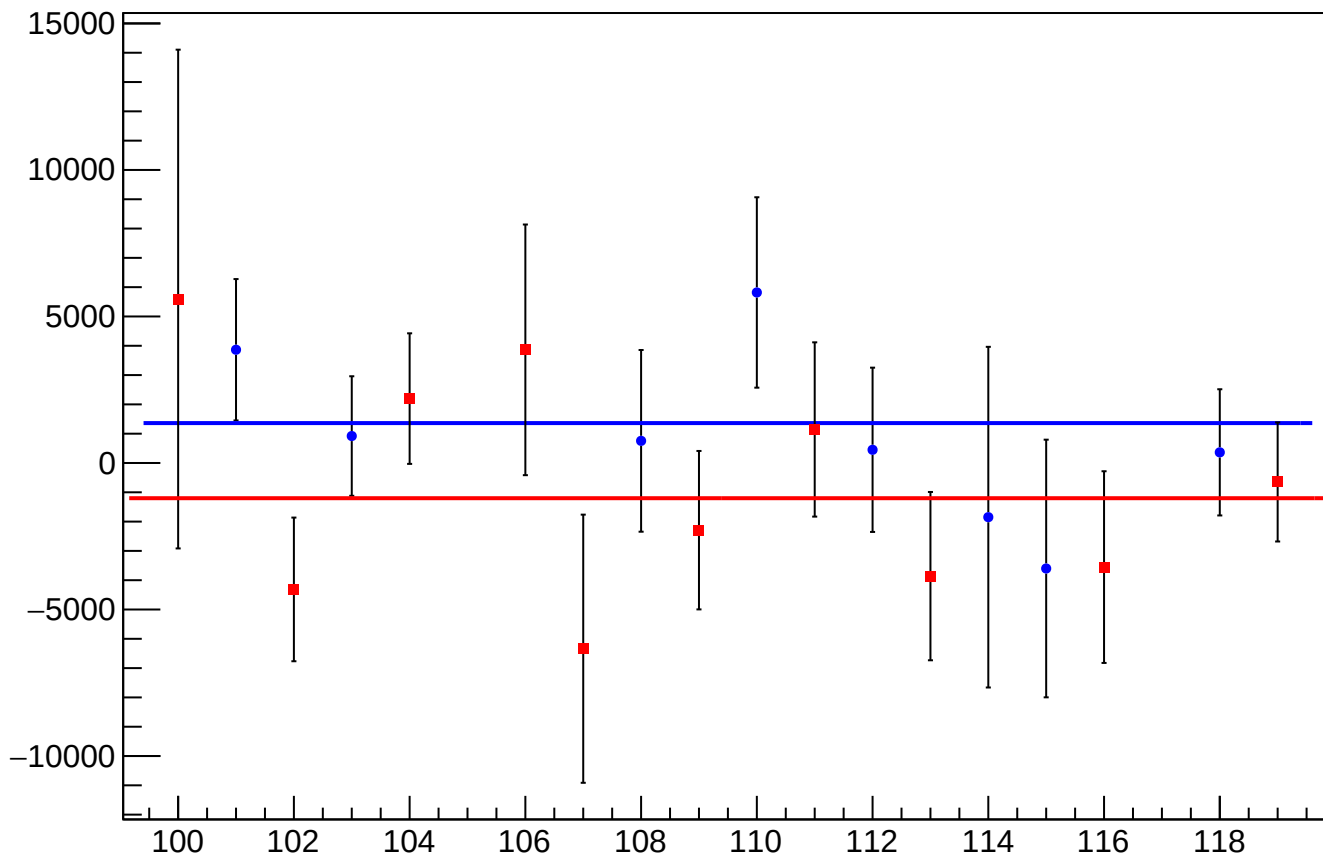
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 705.650+/-0.287  $\chi^2/\text{NDF}$ : 7944610.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl\_avg\_mean vs Slug



Right In: 1361.622 $\pm$ 982.816  $\chi^2$ /NDF: 4.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1201.762 $\pm$ 916.316  $\chi^2$ /NDF: 9.5/9

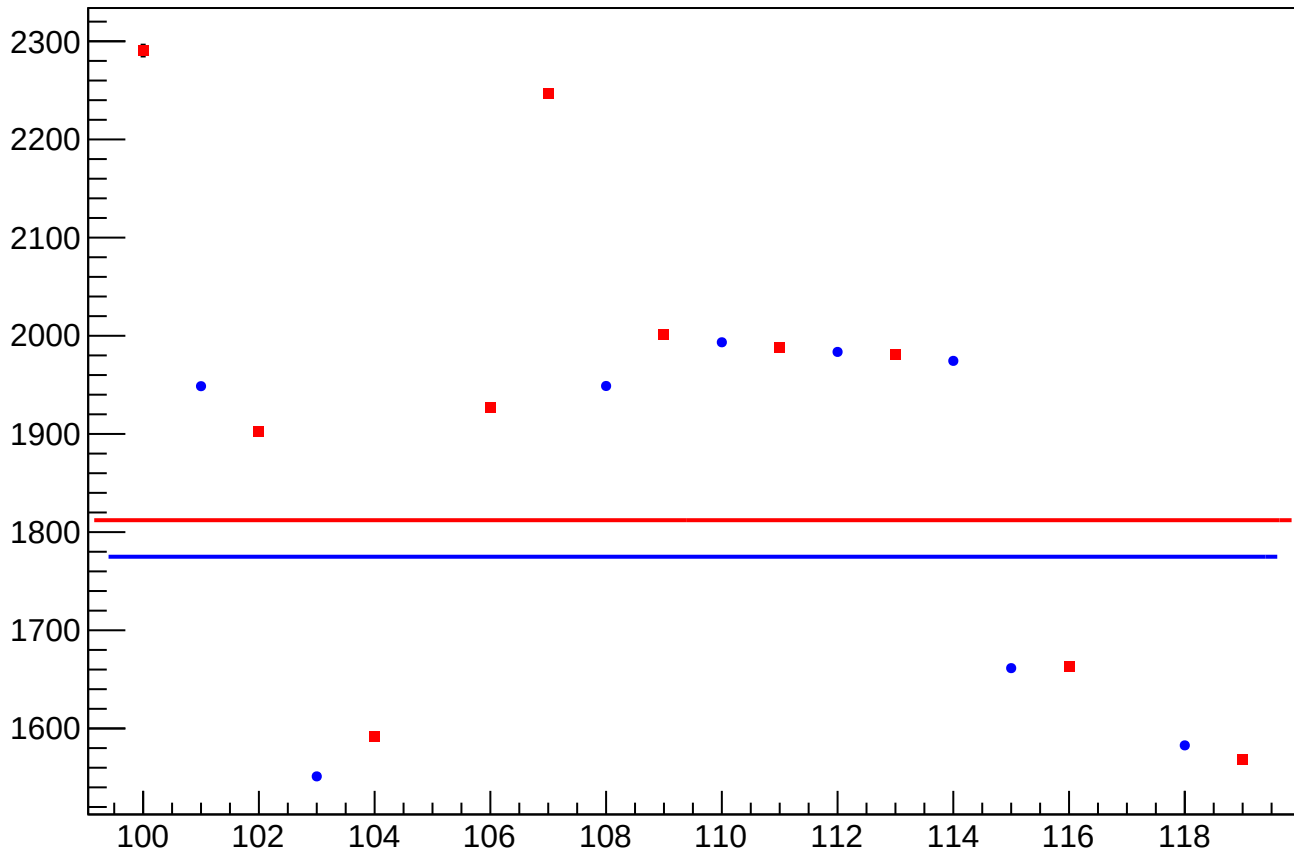
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9.720 $\pm$ 670.211  $\chi^2$ /NDF: 18.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atl\_avg\_rms vs Slug



Right In: 1774.932 $\pm$ 0.695  $\chi^2$ /NDF: 80475.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1812.144 $\pm$ 0.642  $\chi^2$ /NDF: 105198.9/9

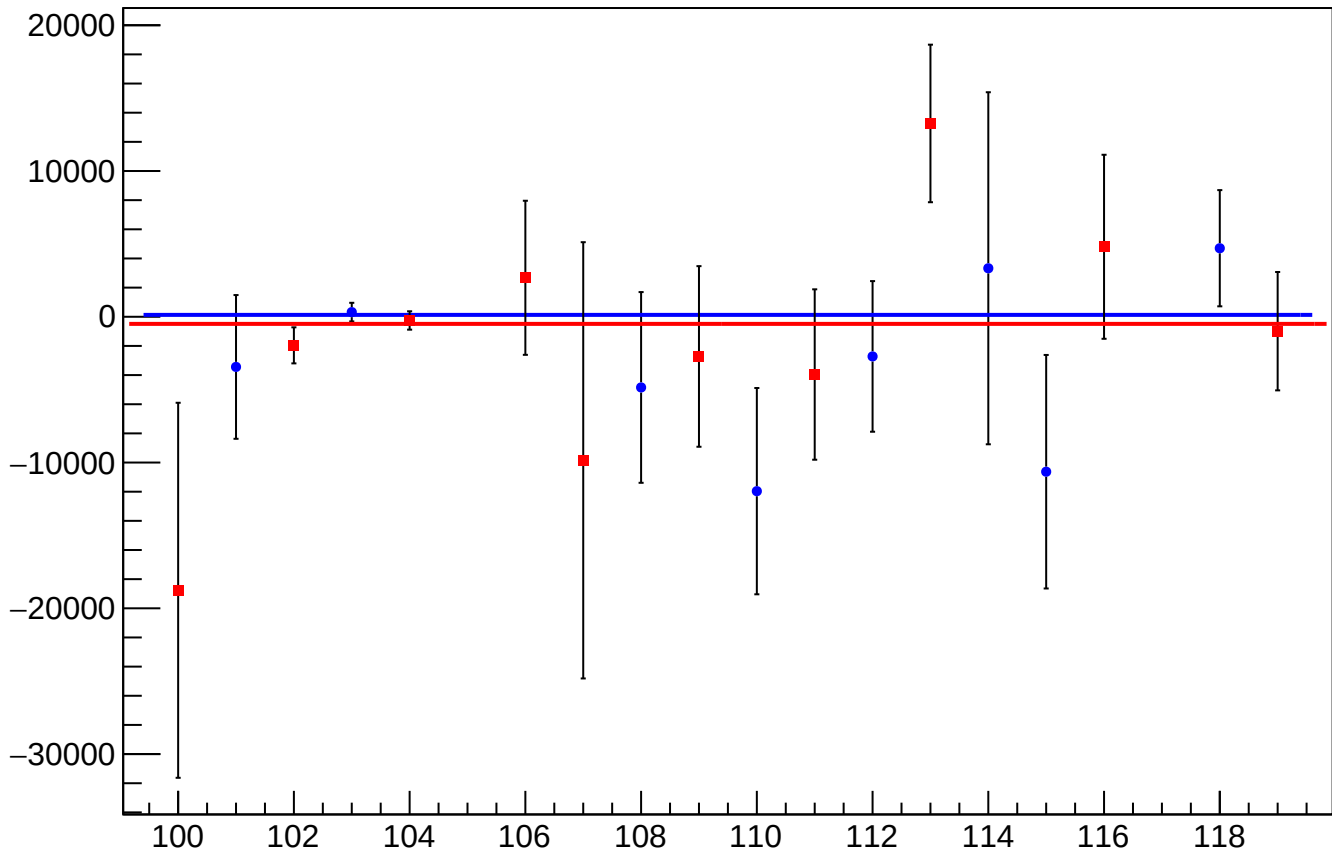
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1794.999 $\pm$ 0.472  $\chi^2$ /NDF: 187220.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 129.805 $\pm$ 612.278  $\chi^2$ /NDF: 7.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -487.783 $\pm$ 542.697  $\chi^2$ /NDF: 12.0/9

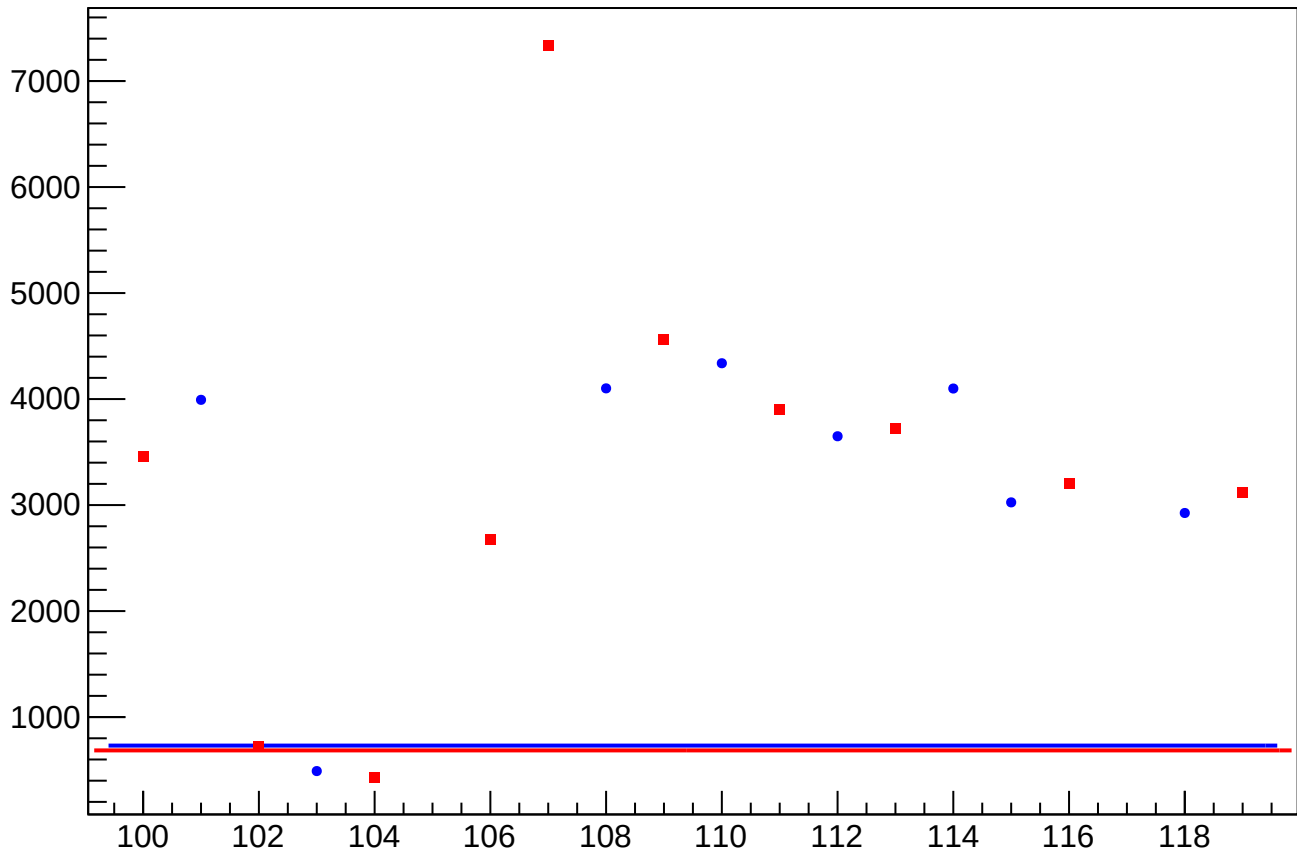
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -216.061 $\pm$ 406.127  $\chi^2$ /NDF: 20.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 731.083+/-0.433  $\chi^2/\text{NDF}$ : 3773389.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 685.669+/-0.384  $\chi^2/\text{NDF}$ : 4165058.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

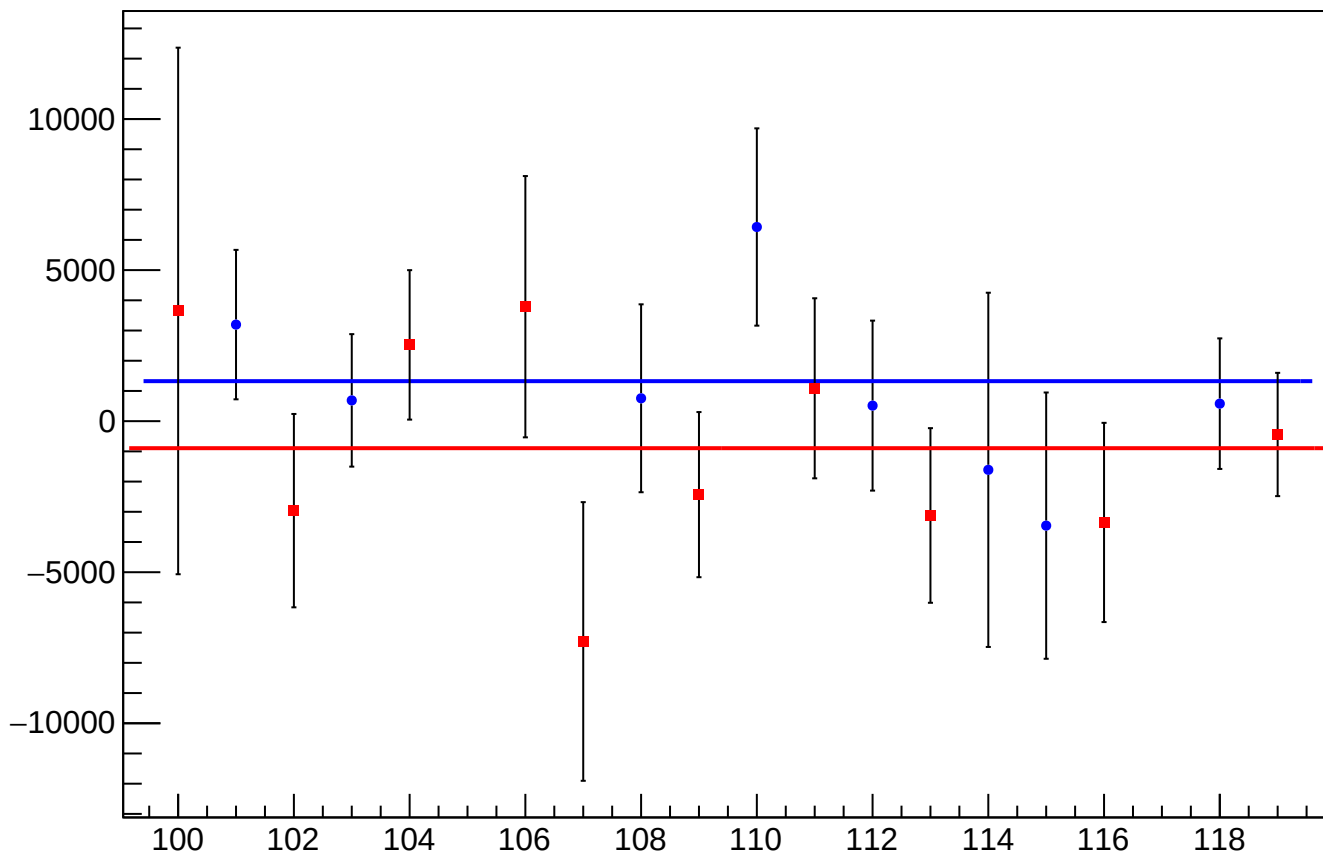
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 705.650+/-0.287  $\chi^2/\text{NDF}$ : 7944610.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_atl\_avg\_mean vs Slug



Right In: 1324.316 $\pm$ 1005.165  $\chi^2$ /NDF: 4.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -894.539 $\pm$ 965.333  $\chi^2$ /NDF: 7.7/9

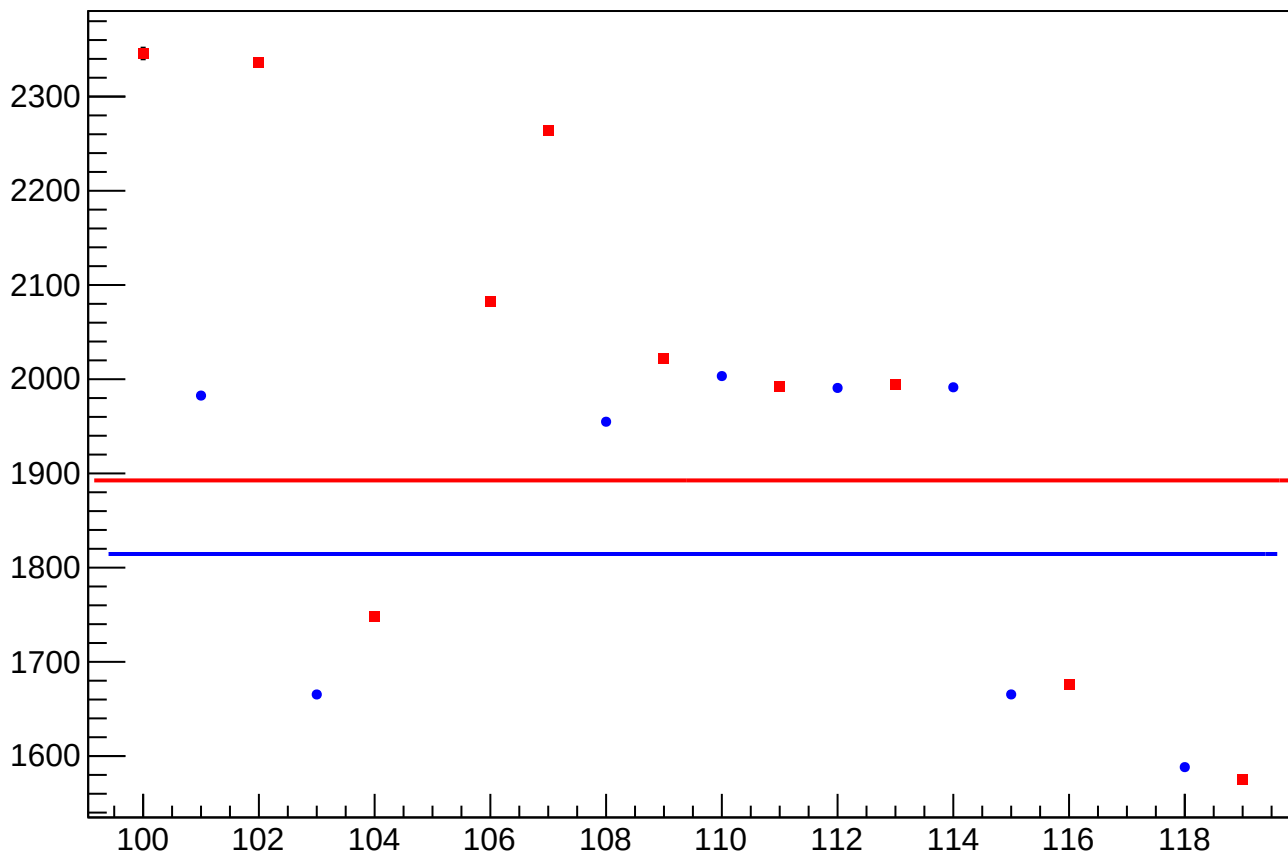
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 170.055 $\pm$ 696.249  $\chi^2$ /NDF: 15.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atl\_avg\_rms vs Slug



Right In: 1814.485+/-0.711  $\chi^2/\text{NDF}$ : 63139.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1892.582+/-0.679  $\chi^2/\text{NDF}$ : 134527.8/9

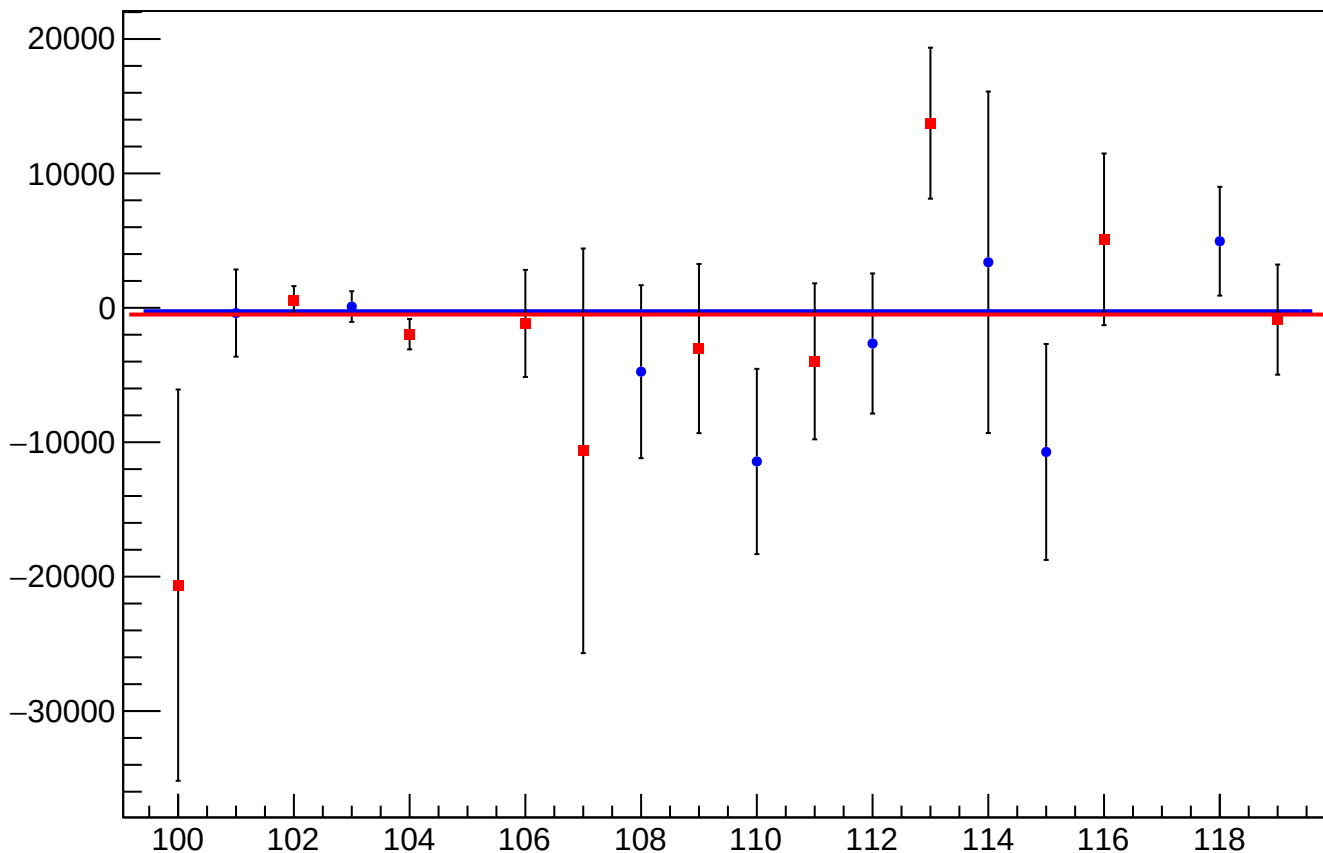
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1855.300+/-0.491  $\chi^2/\text{NDF}$ : 203976.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_dit\_correction\_mean vs Slug



Right In: -253.524+/-986.486  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -498.534+/-724.501  $\chi^2$ /NDF: 12.8/9

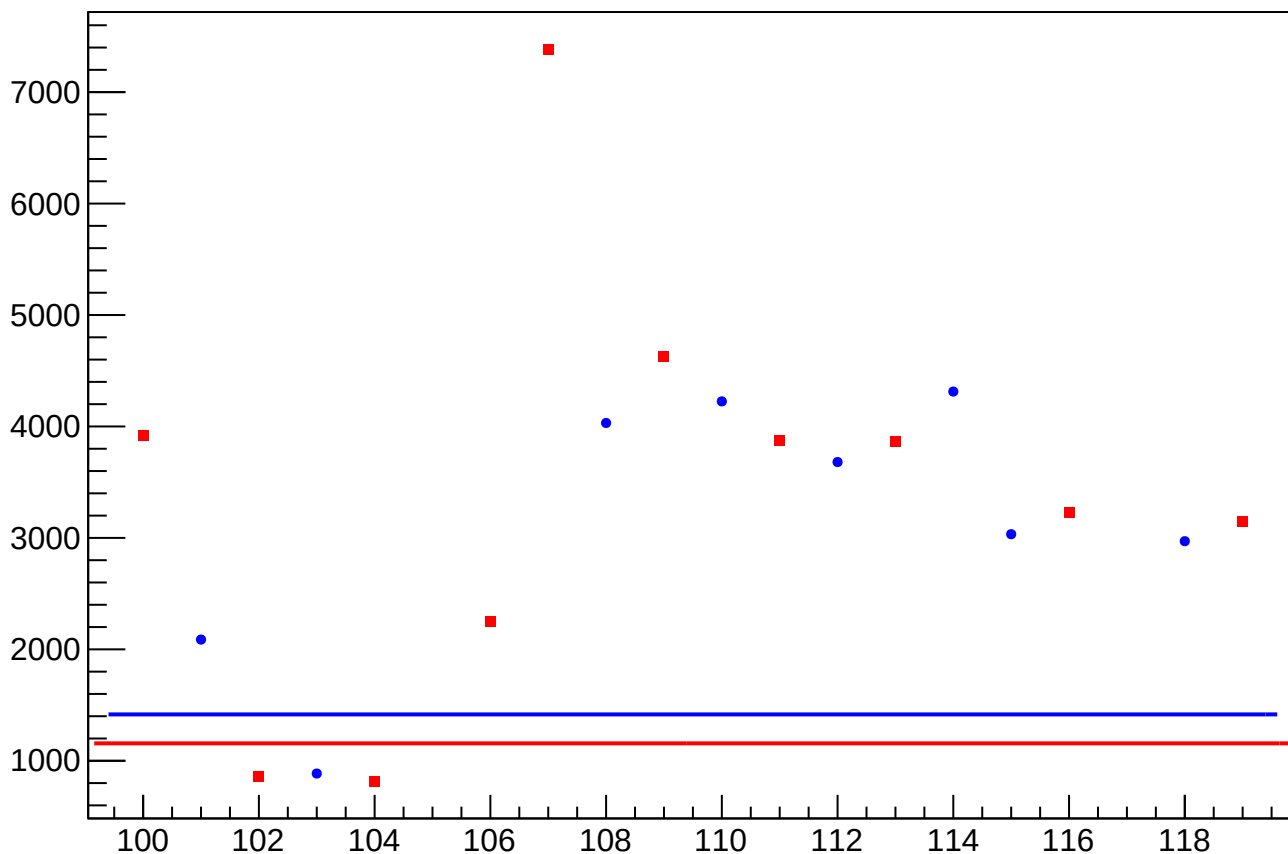
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -412.685+/-583.937  $\chi^2$ /NDF: 19.7/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_dit\_correction\_rms vs Slug



Right In: 1416.276+/-0.698  $\chi^2/\text{NDF}$ : 2038040.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1156.530+/-0.512  $\chi^2/\text{NDF}$ : 3102847.1/9

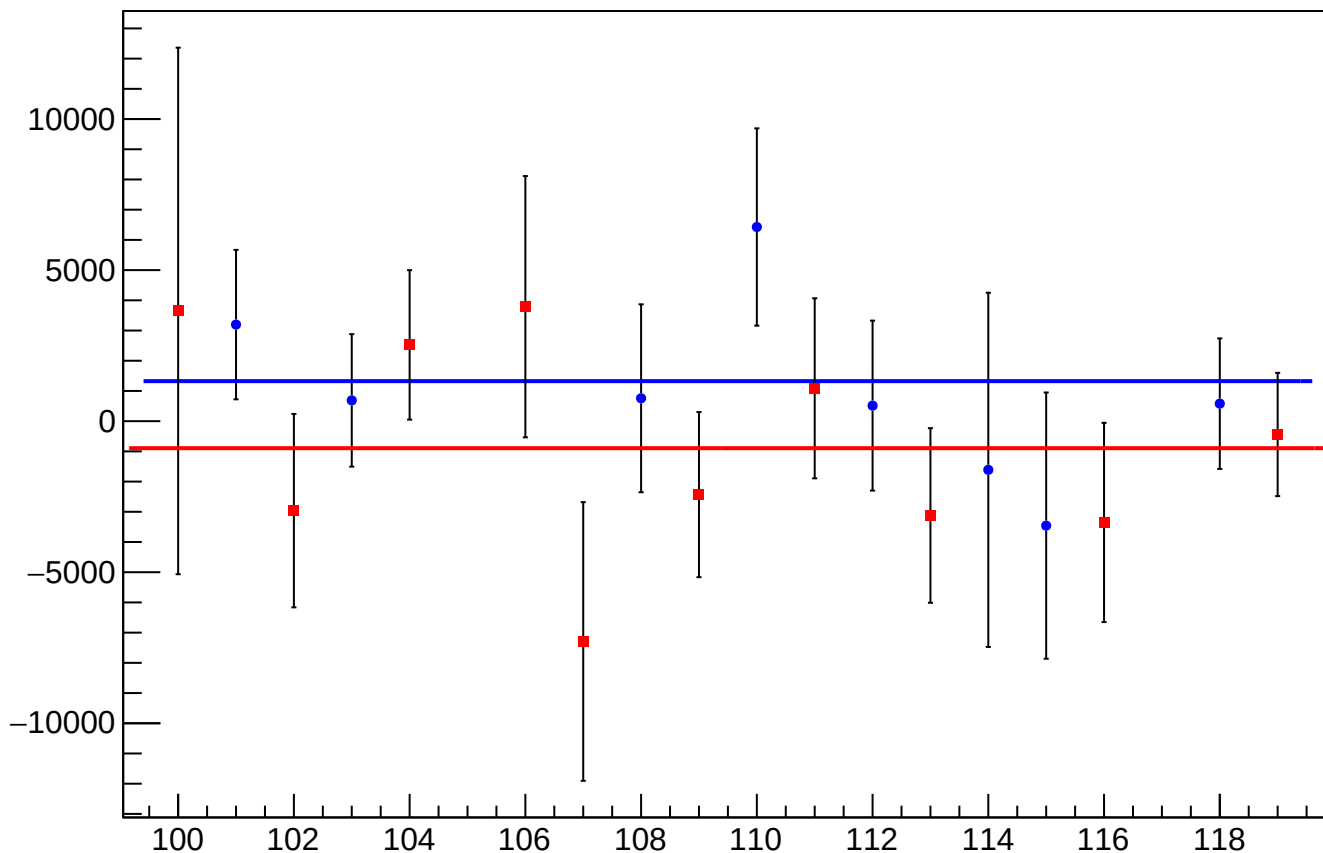
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1247.542+/-0.413  $\chi^2/\text{NDF}$ : 5230961.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl\_avg\_mean vs Slug



Right In: 1324.319+/-1005.164  $\chi^2/\text{NDF}$ : 4.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -894.542+/-965.333  $\chi^2/\text{NDF}$ : 7.7/9

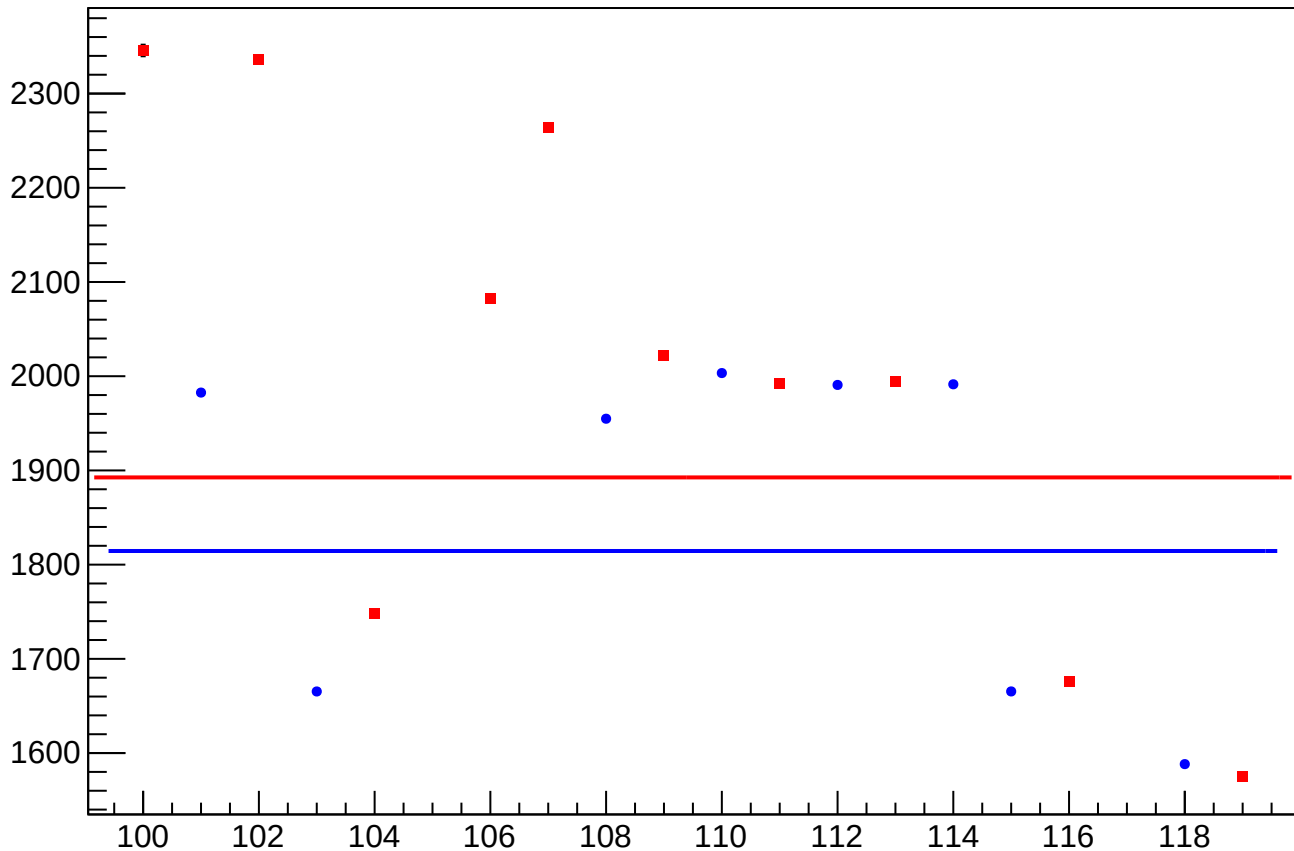
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 170.055+/-696.249  $\chi^2/\text{NDF}$ : 15.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl\_avg\_rms vs Slug



Right In: 1814.484+/-0.711  $\chi^2/\text{NDF}$ : 63139.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1892.581+/-0.679  $\chi^2/\text{NDF}$ : 134527.8/9

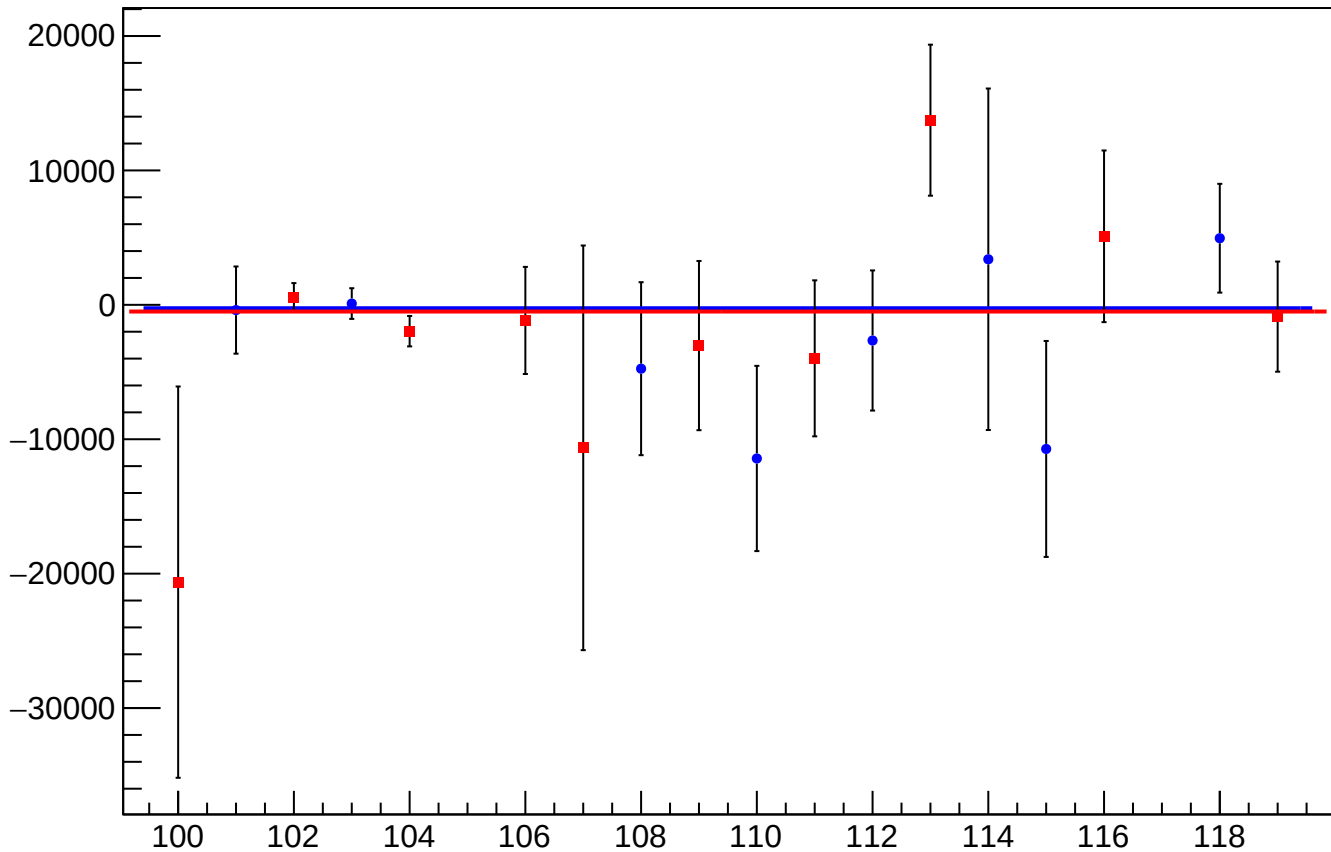
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1855.299+/-0.491  $\chi^2/\text{NDF}$ : 203977.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -253.518+/-986.478  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -498.532+/-724.496  $\chi^2$ /NDF: 12.8/9

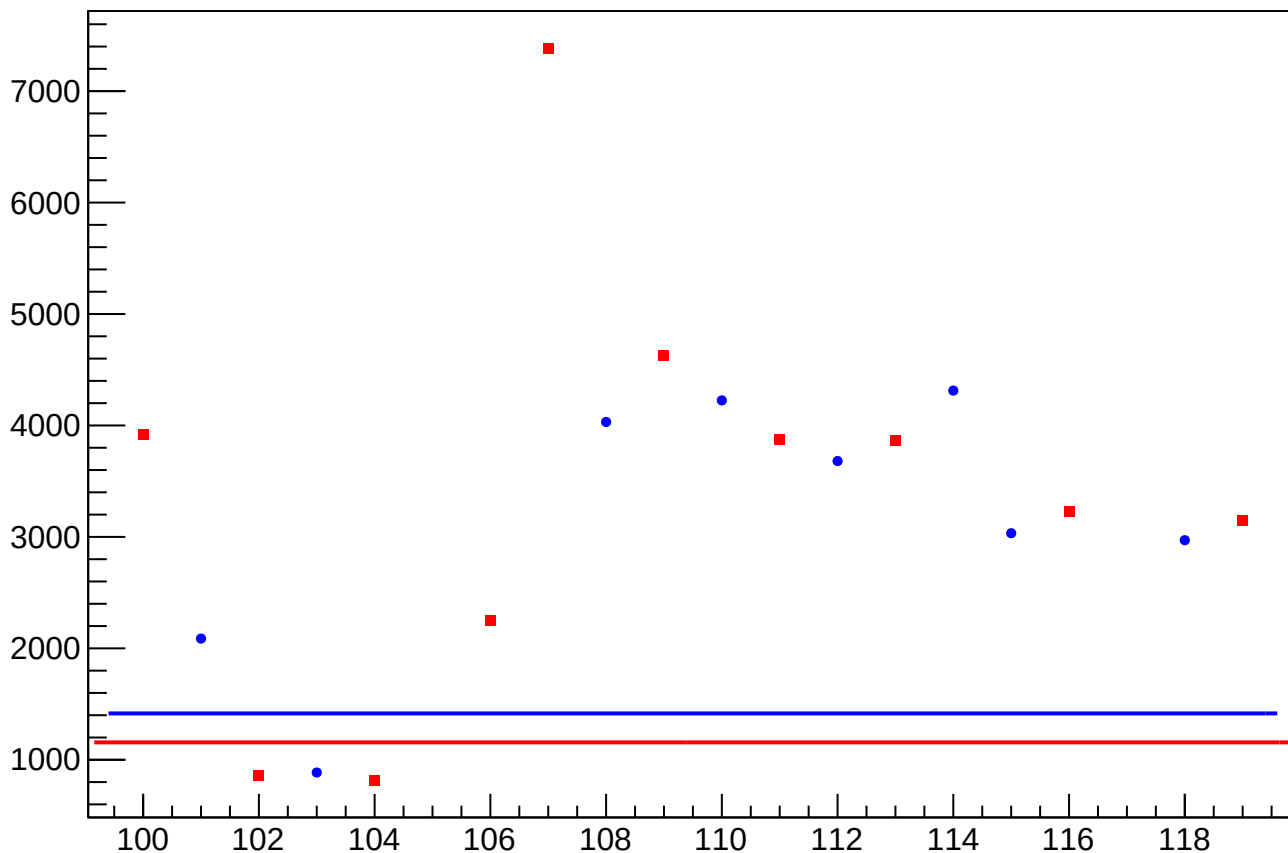
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -412.682+/-583.932  $\chi^2$ /NDF: 19.7/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1416.262+/-0.698  $\chi^2/\text{NDF}$ : 2038049.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1156.519+/-0.512  $\chi^2/\text{NDF}$ : 3102859.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

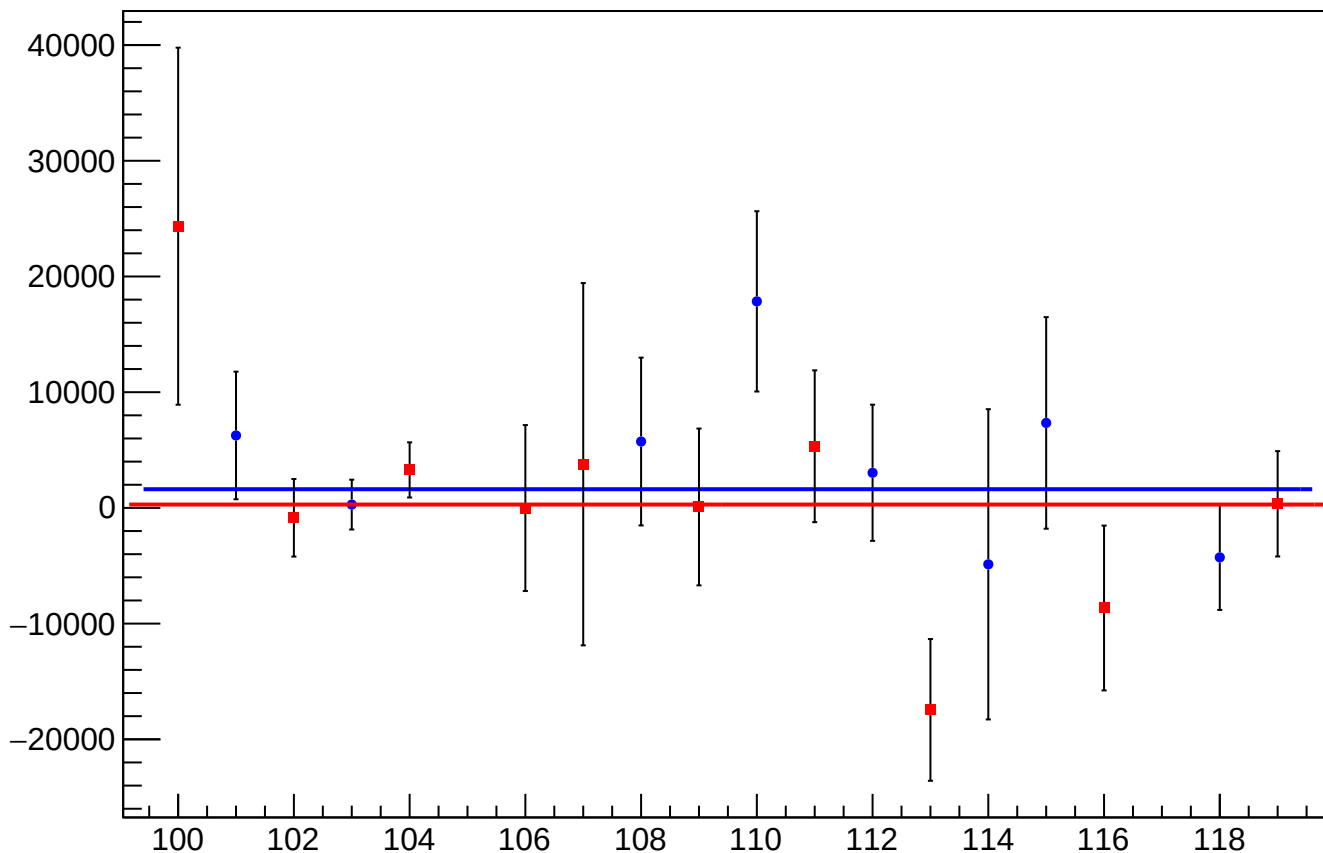
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1247.530+/-0.413  $\chi^2/\text{NDF}$ : 5230982.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl\_avg\_mean vs Slug



Right In: 1614.889+/-1624.488  $\chi^2/\text{NDF}$ : 8.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 290.855+/-1521.100  $\chi^2/\text{NDF}$ : 14.7/9

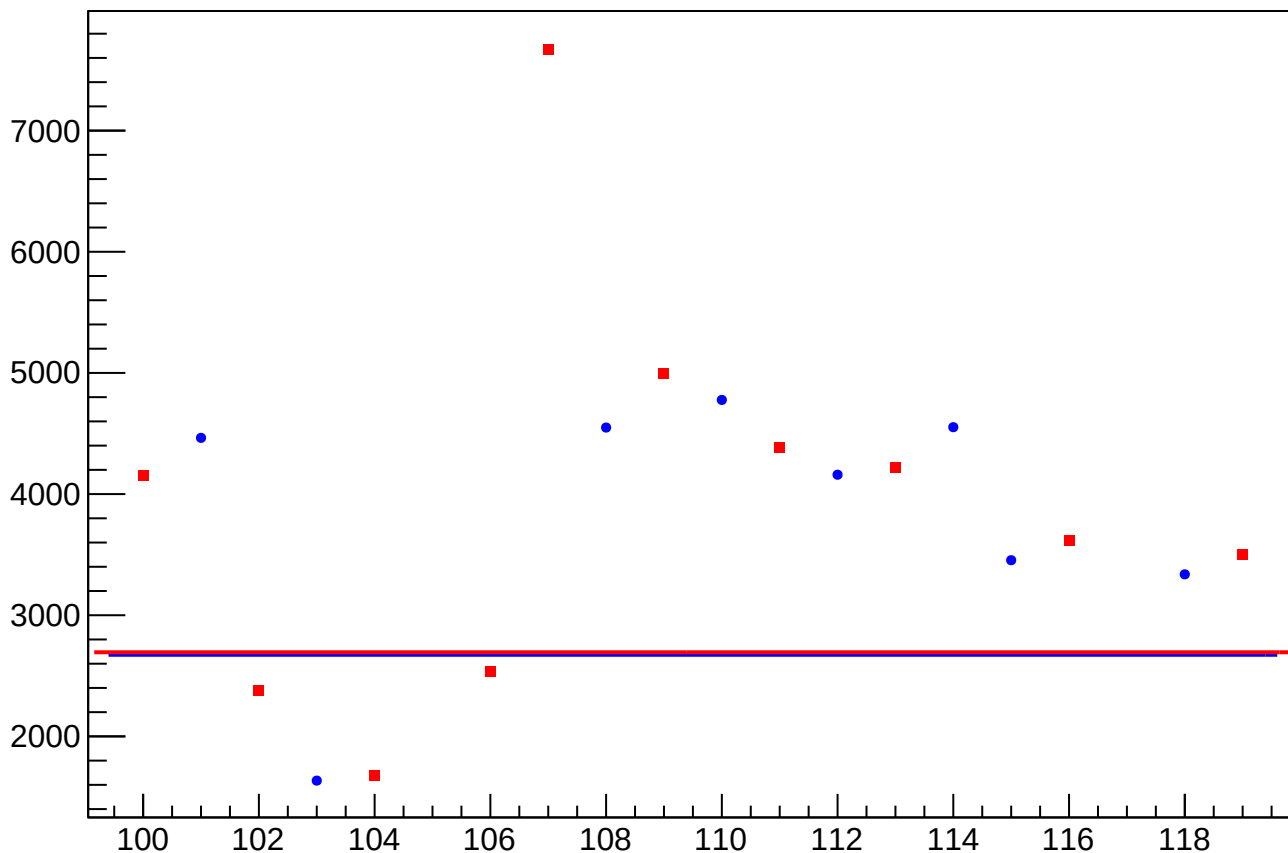
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 909.401+/-1110.332  $\chi^2/\text{NDF}$ : 23.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_rms vs Slug



Right In: 2673.708+/-1.149  $\chi^2/\text{NDF}$ : 1179982.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2694.332+/-1.051  $\chi^2/\text{NDF}$ : 1190145.2/9

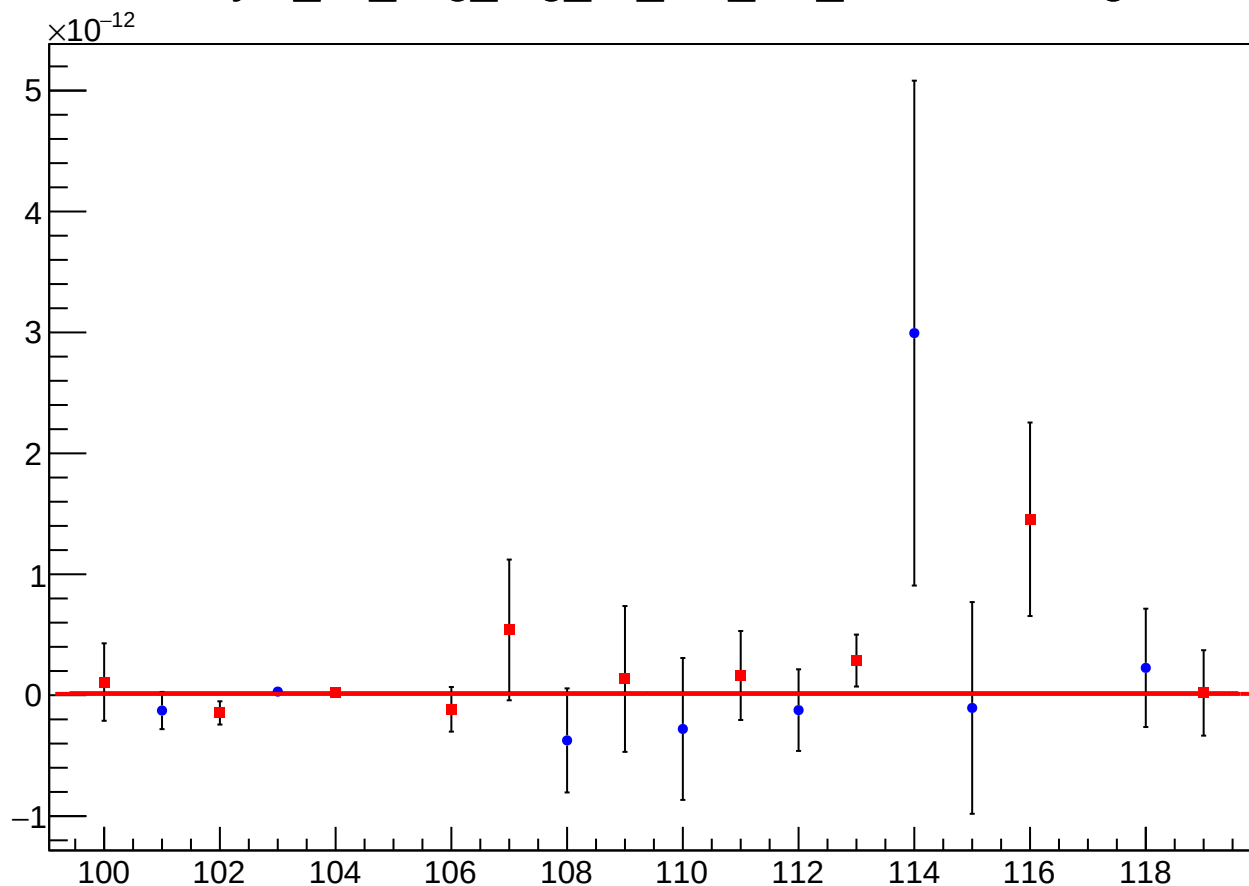
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2684.937+/-0.775  $\chi^2/\text{NDF}$ : 2370303.3/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 4.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.3/9

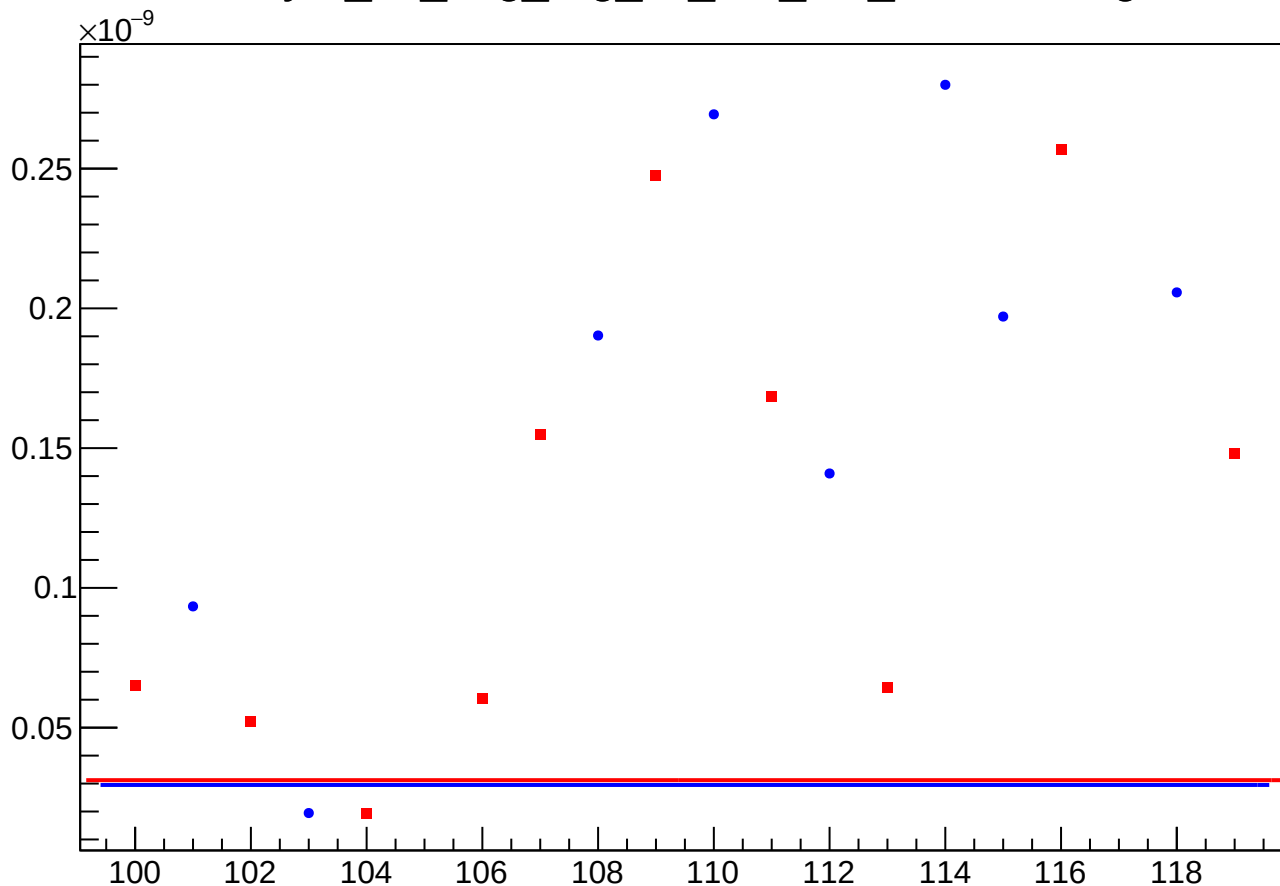
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1663912.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1398457.7/9

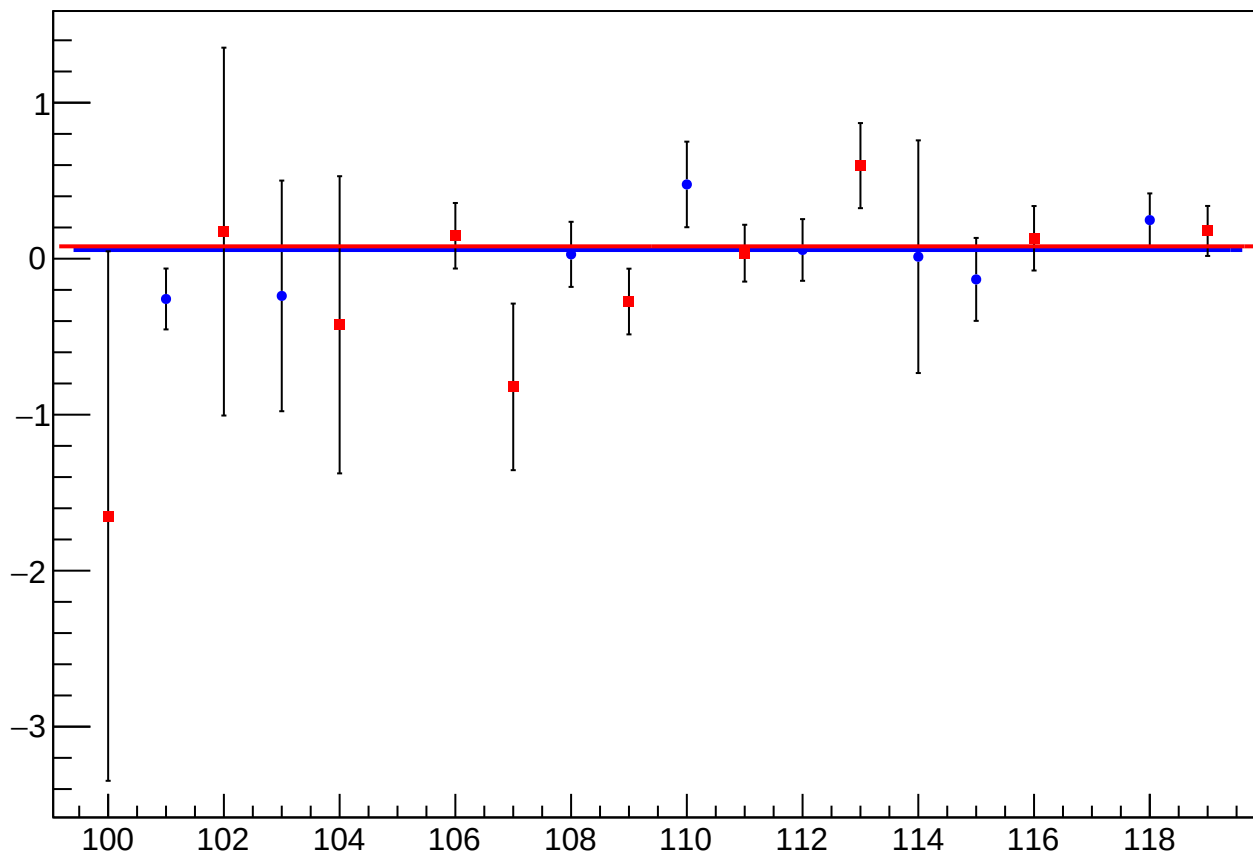
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3064546.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.056 $\pm$ 0.084  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.079 $\pm$ 0.080  $\chi^2$ /NDF: 11.2/9

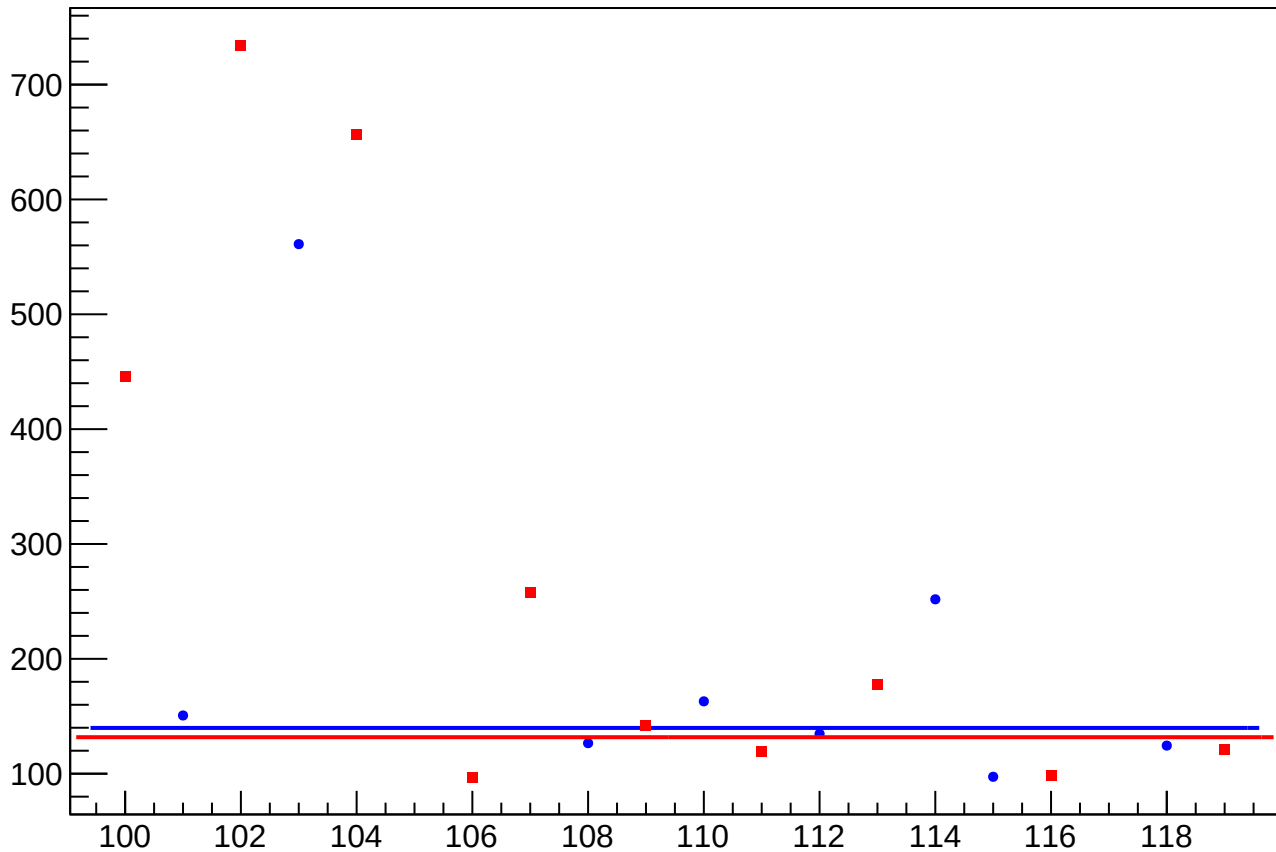
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.068 $\pm$ 0.058  $\chi^2$ /NDF: 18.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.841 $\pm$ 0.060  $\chi^2$ /NDF: 791764.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 131.772 $\pm$ 0.056  $\chi^2$ /NDF: 1497649.8/9

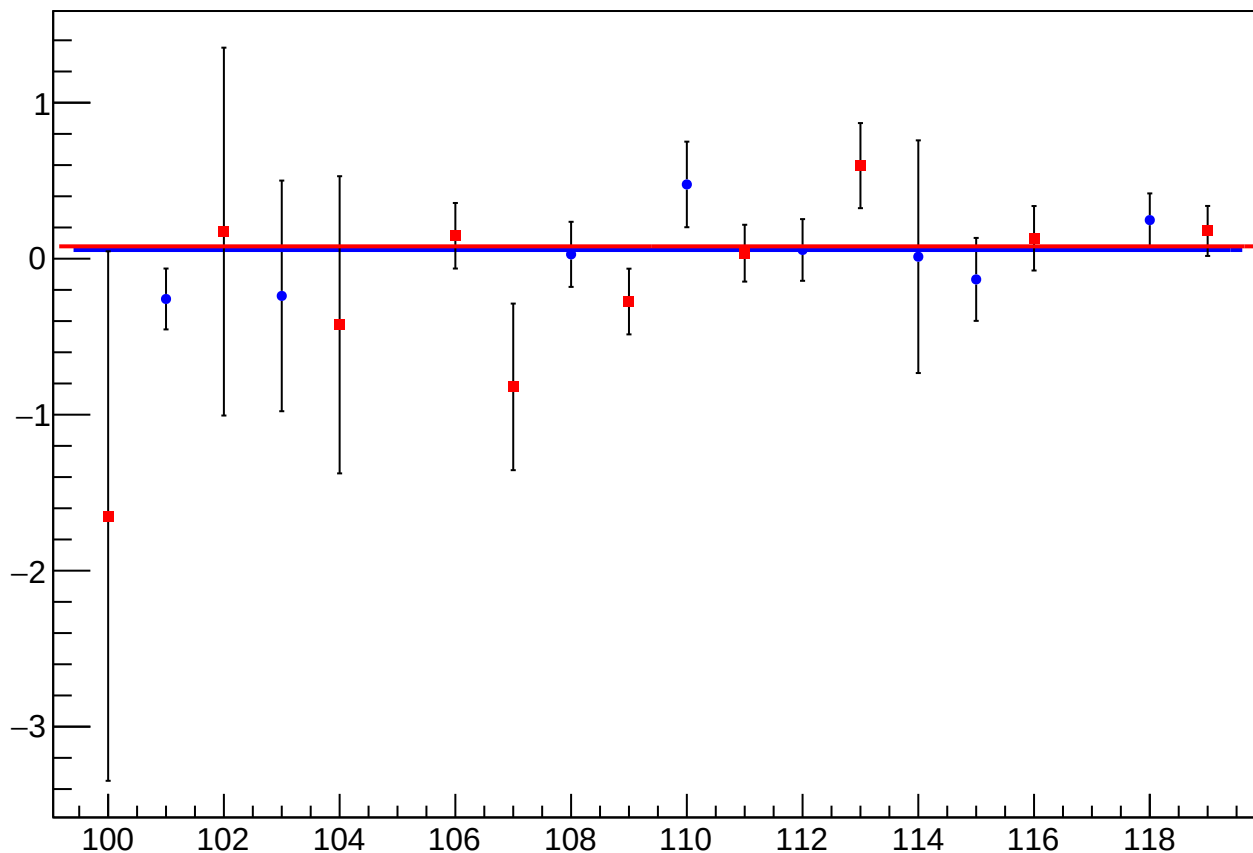
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 135.580 $\pm$ 0.041  $\chi^2$ /NDF: 2299046.7/17

- 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: 0.056 $\pm$ 0.084  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.079 $\pm$ 0.080  $\chi^2$ /NDF: 11.2/9

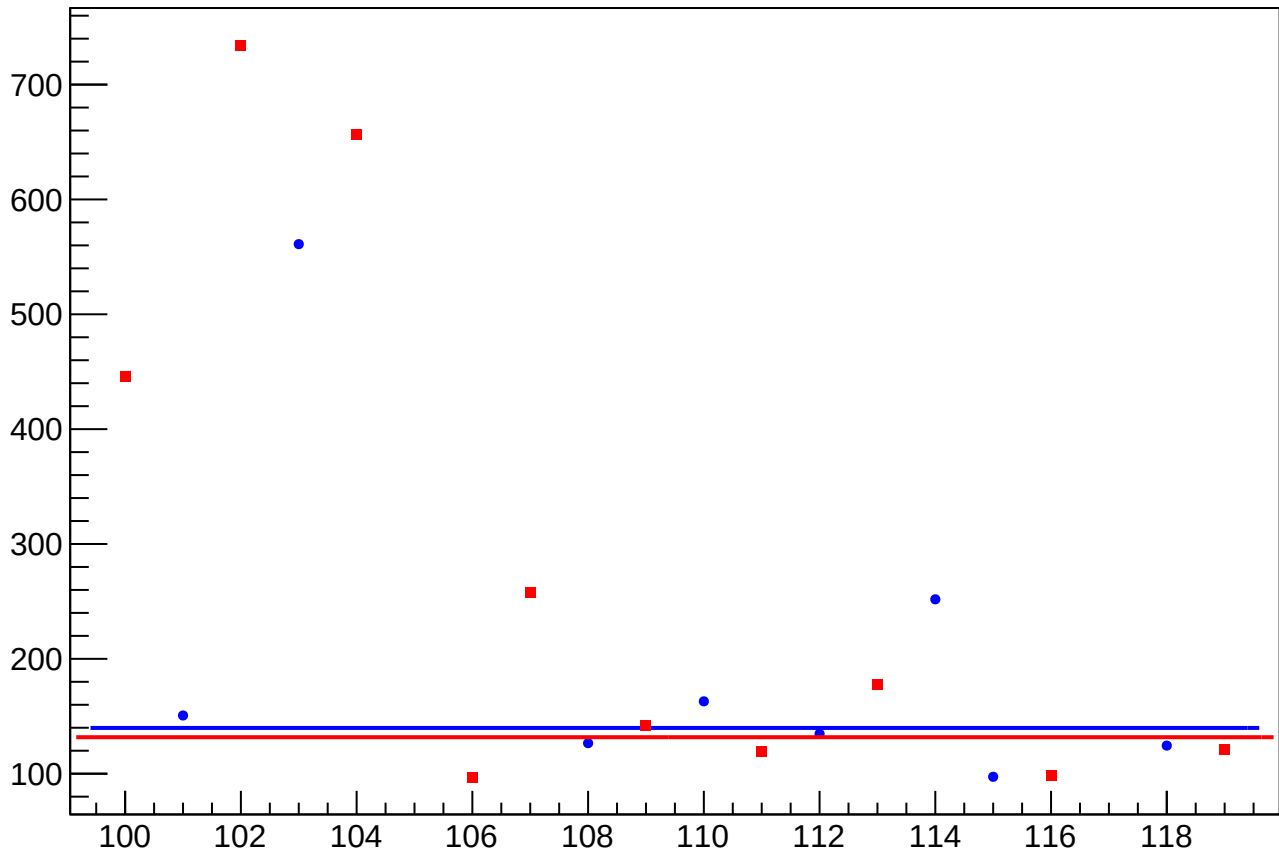
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.068 $\pm$ 0.058  $\chi^2$ /NDF: 18.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.841 $\pm$ 0.060  $\chi^2$ /NDF: 791764.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 131.772 $\pm$ 0.056  $\chi^2$ /NDF: 1497649.8/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

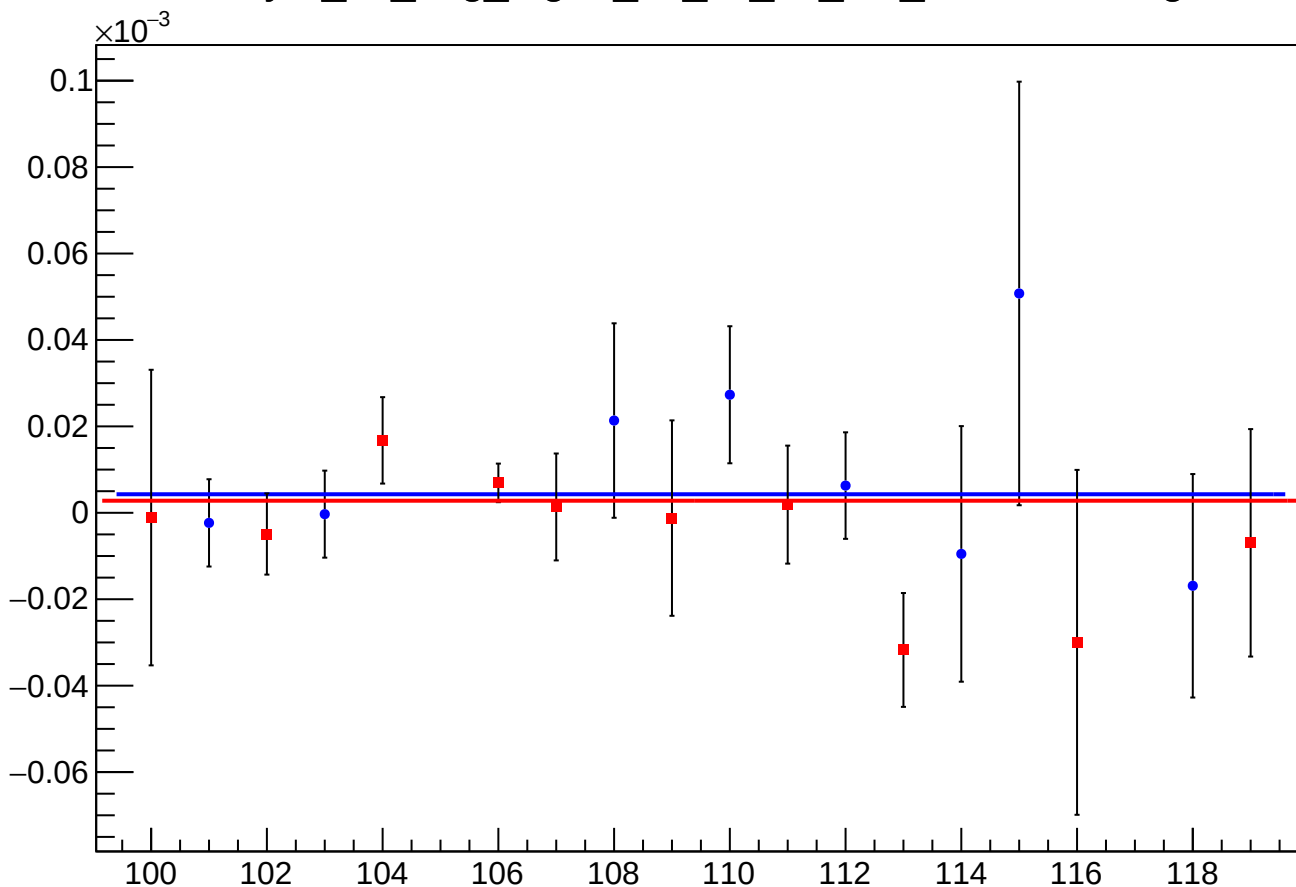
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 135.580 $\pm$ 0.041  $\chi^2$ /NDF: 2299046.7/17

- 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: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.2/9

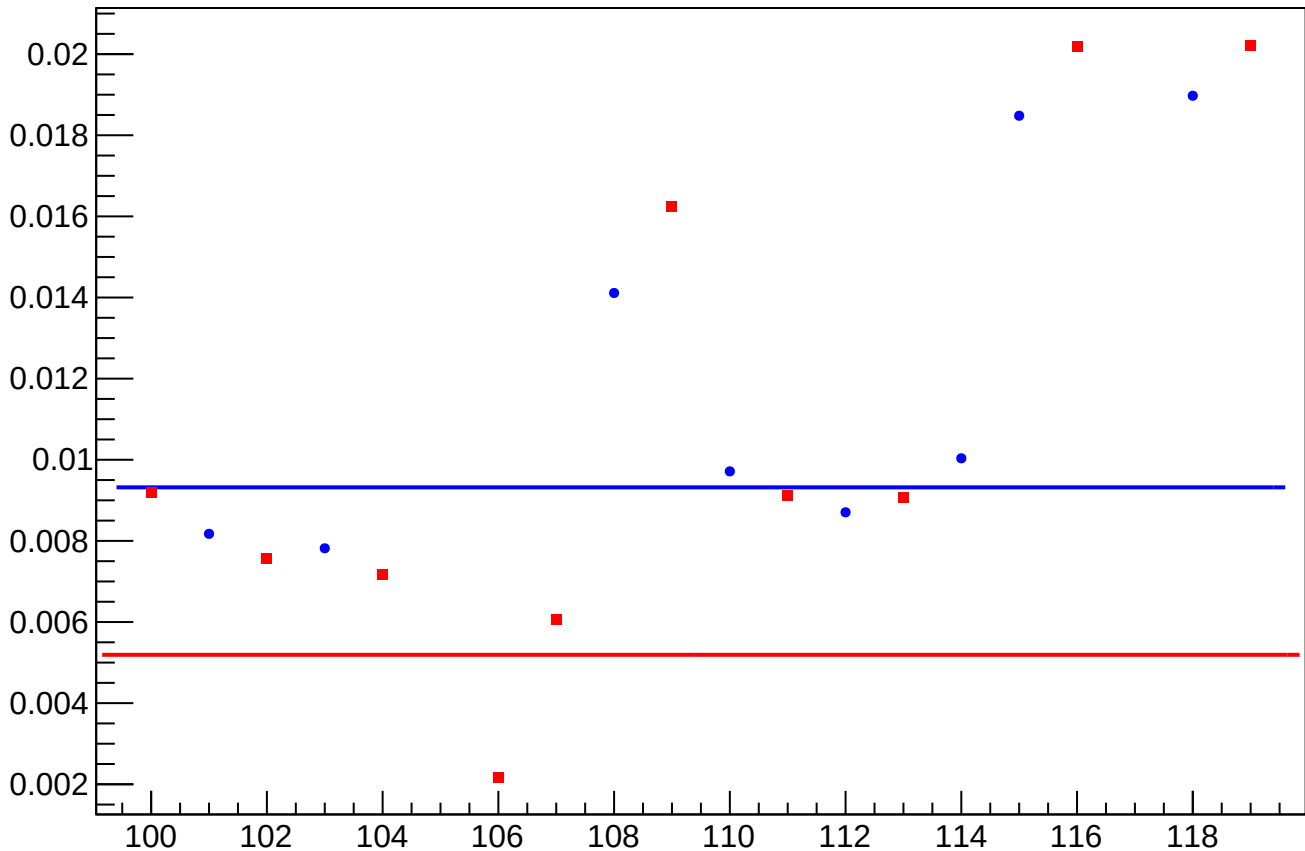
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.4/17

- 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  $\chi^2/\text{NDF}$ : 517040.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2915370.7/9

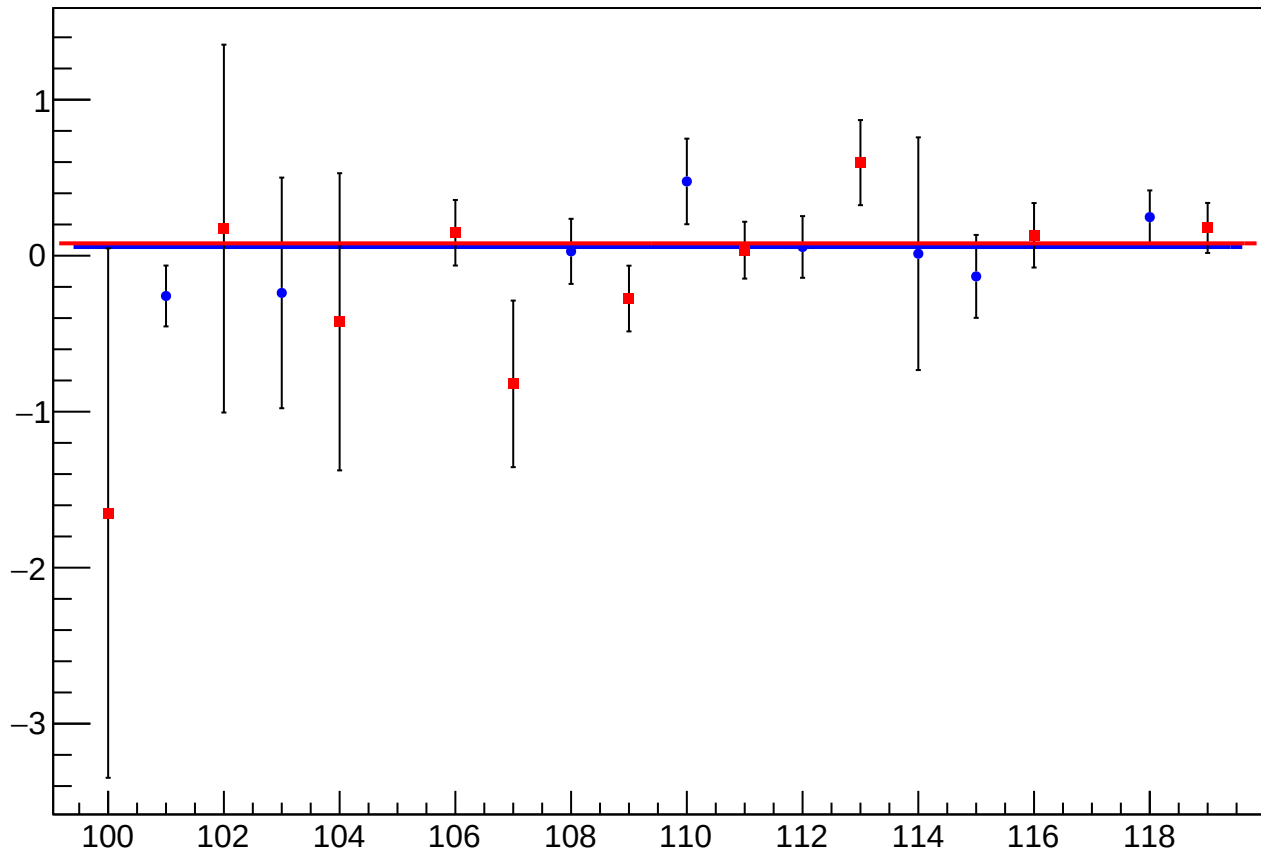
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 4306361.0/17

- 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: 0.056+/-0.084  $\chi^2/\text{NDF}$ : 6.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.079+/-0.080  $\chi^2/\text{NDF}$ : 11.2/9

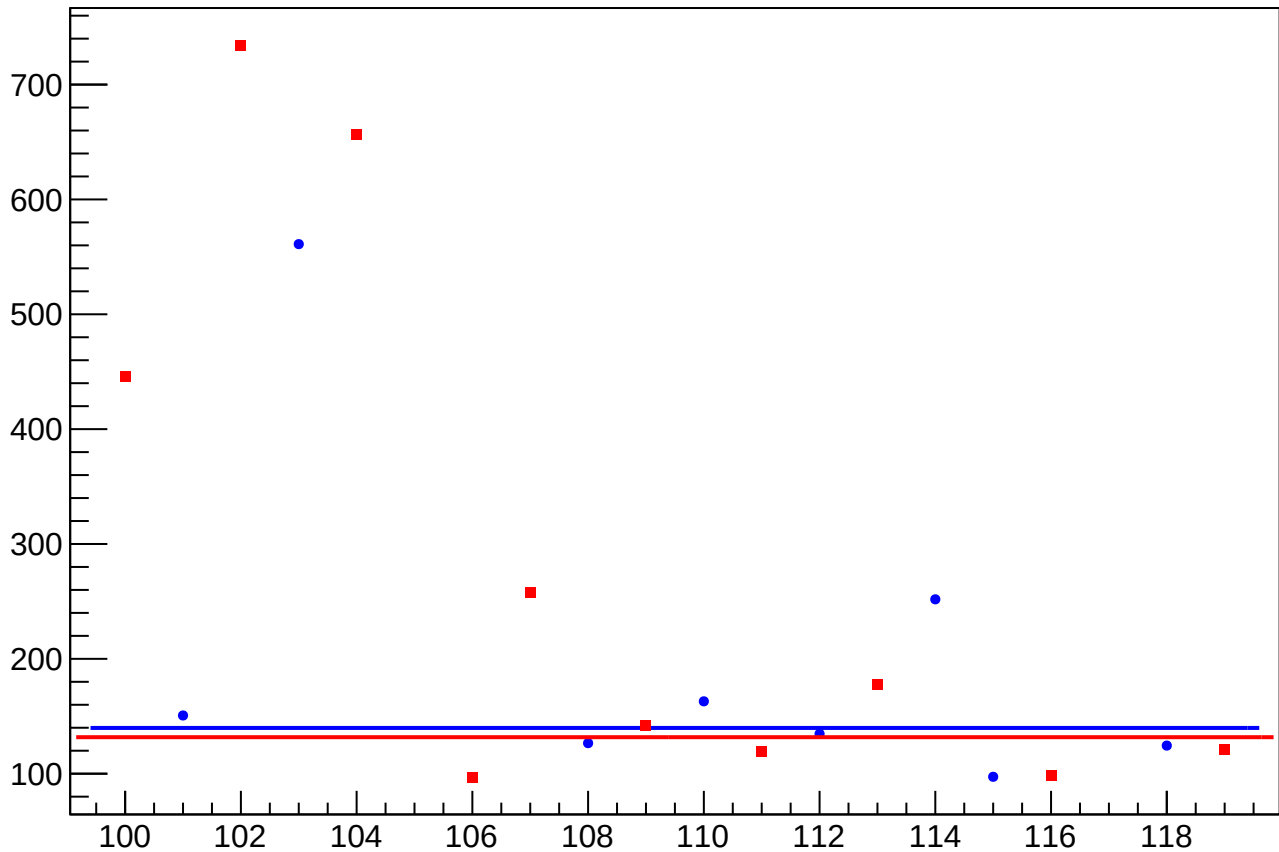
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.068+/-0.058  $\chi^2/\text{NDF}$ : 18.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.840+/-0.060  $\chi^2/\text{NDF}$ : 791763.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 131.774+/-0.056  $\chi^2/\text{NDF}$ : 1497610.8/9

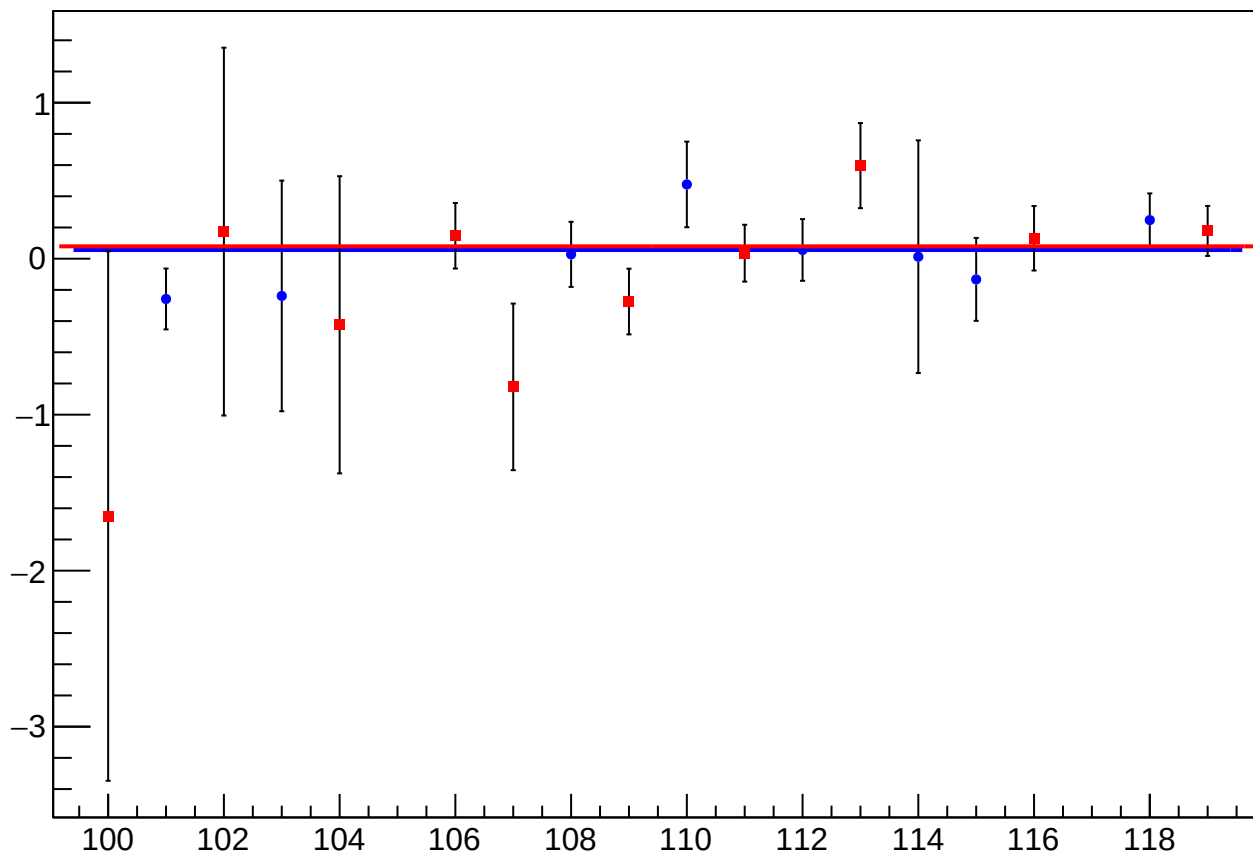
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 135.581+/-0.041  $\chi^2/\text{NDF}$ : 2299003.1/17

- 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: 0.056+/-0.084  $\chi^2/\text{NDF}$ : 6.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.079+/-0.080  $\chi^2/\text{NDF}$ : 11.2/9

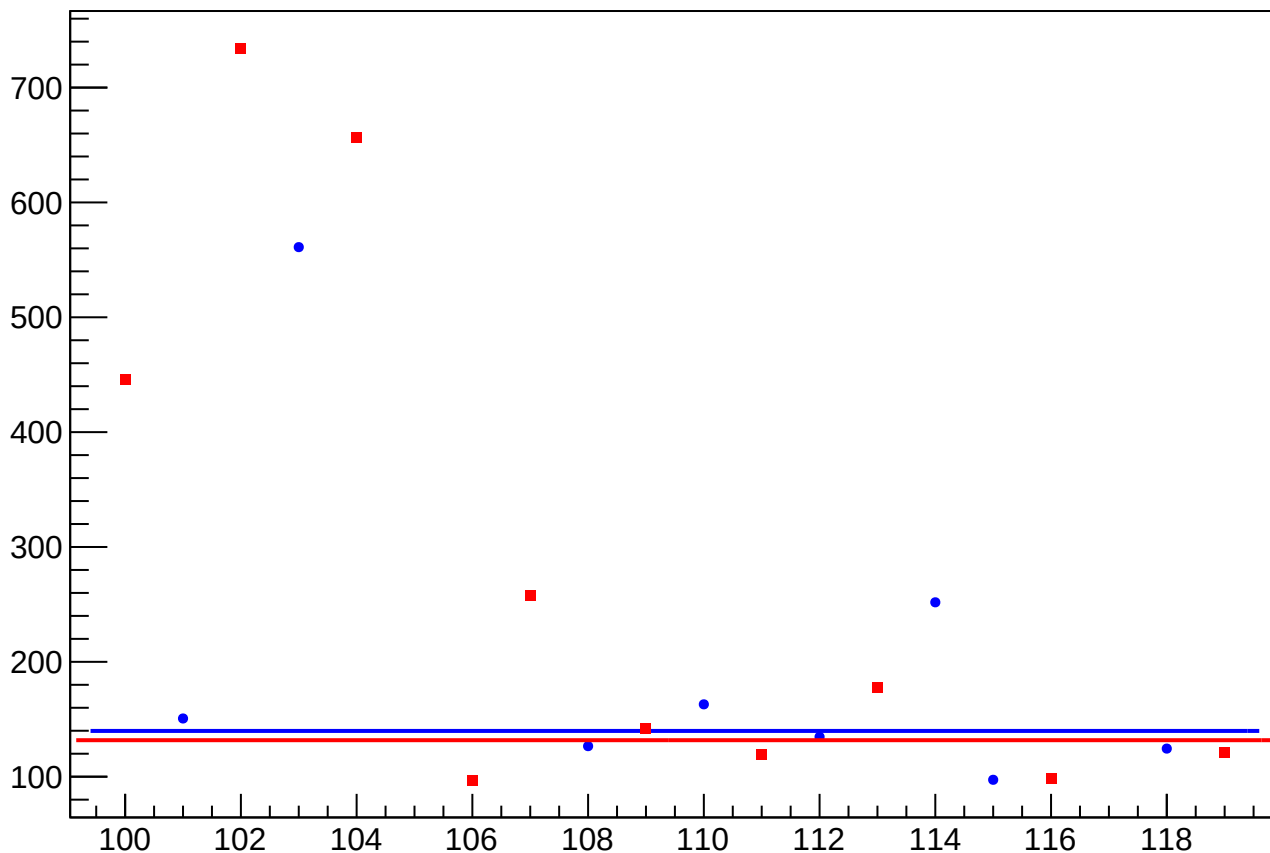
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.068+/-0.058  $\chi^2/\text{NDF}$ : 18.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.840+/-0.060  $\chi^2/\text{NDF}$ : 791763.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 131.774+/-0.056  $\chi^2/\text{NDF}$ : 1497610.8/9

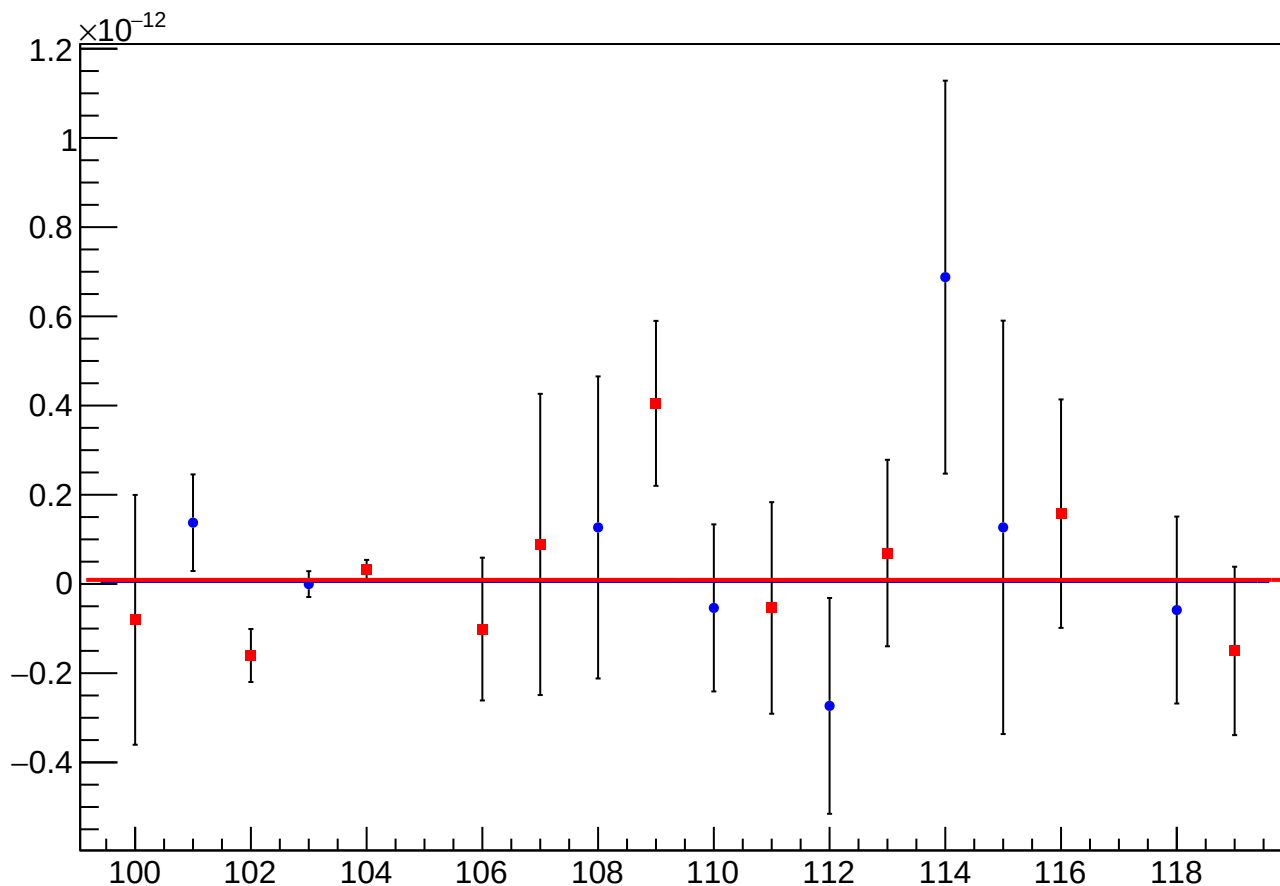
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 135.581+/-0.041  $\chi^2/\text{NDF}$ : 2299003.1/17

- 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: 5.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.5/9

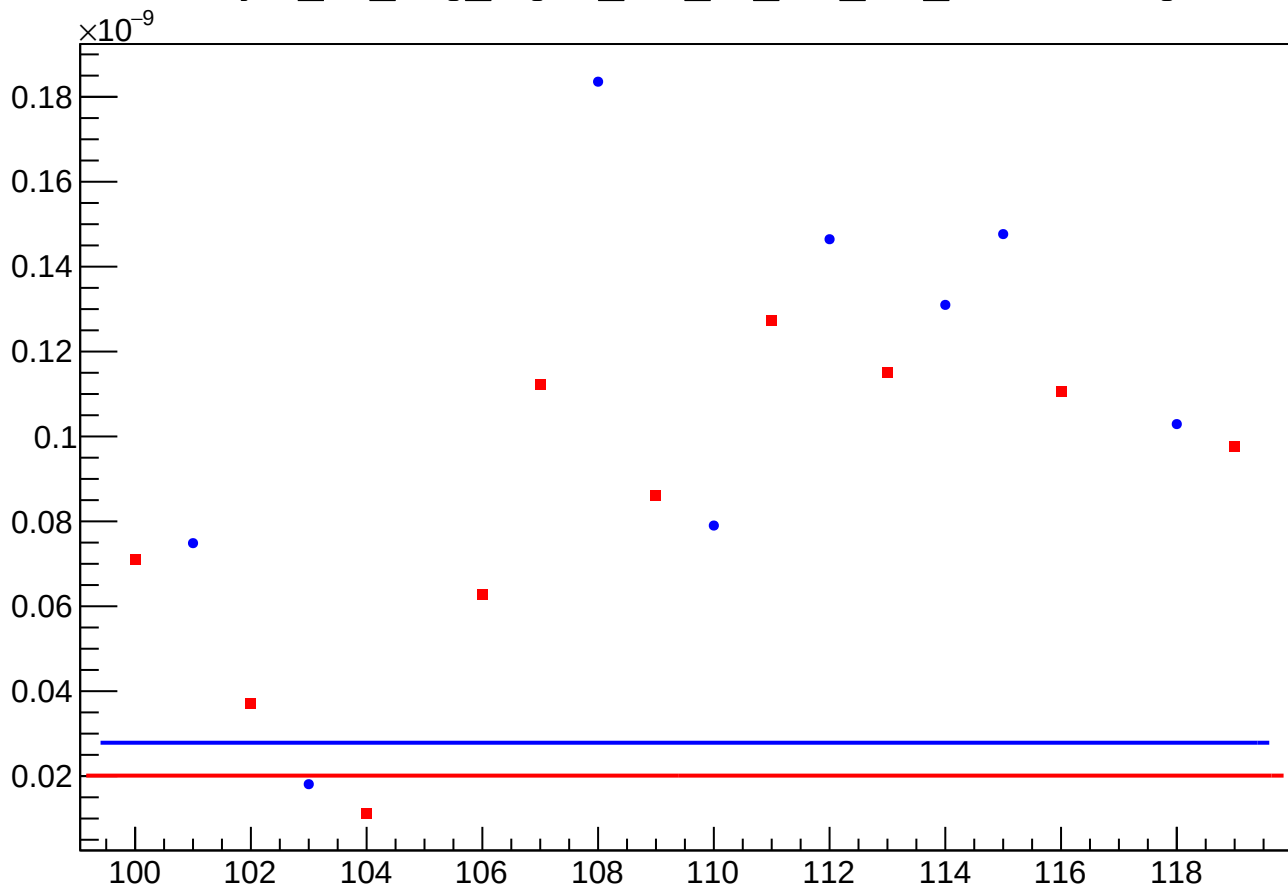
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 21.2/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 2157372.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2496364.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

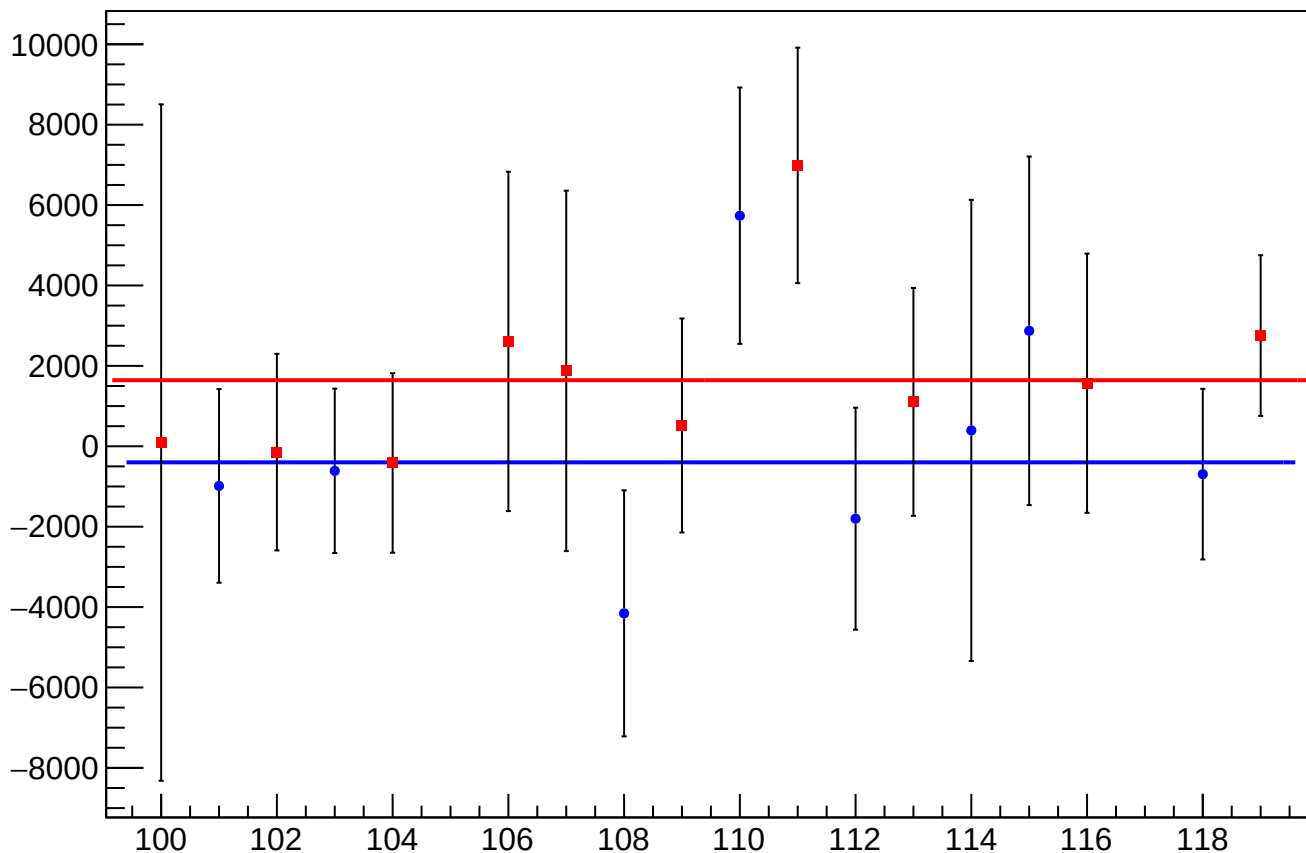
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4758249.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl\_dd\_mean vs Slug



Right In: -399.643+/-974.339  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1643.368+/-906.636  $\chi^2/\text{NDF}$ : 5.3/9

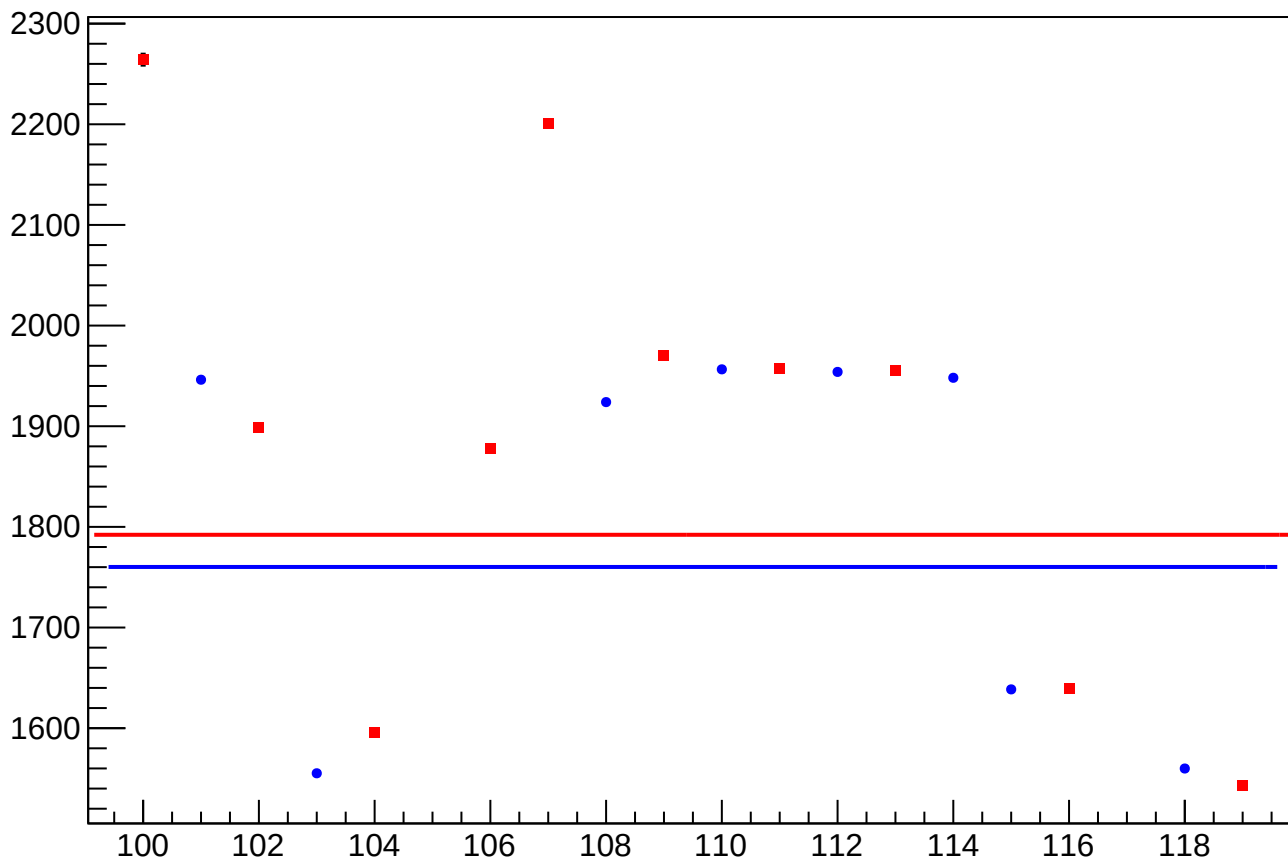
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 695.302+/-663.734  $\chi^2/\text{NDF}$ : 13.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_rms vs Slug



Right In: 1760.183+/-0.689  $\chi^2/\text{NDF}$ : 76717.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1792.143+/-0.635  $\chi^2/\text{NDF}$ : 100847.8/9

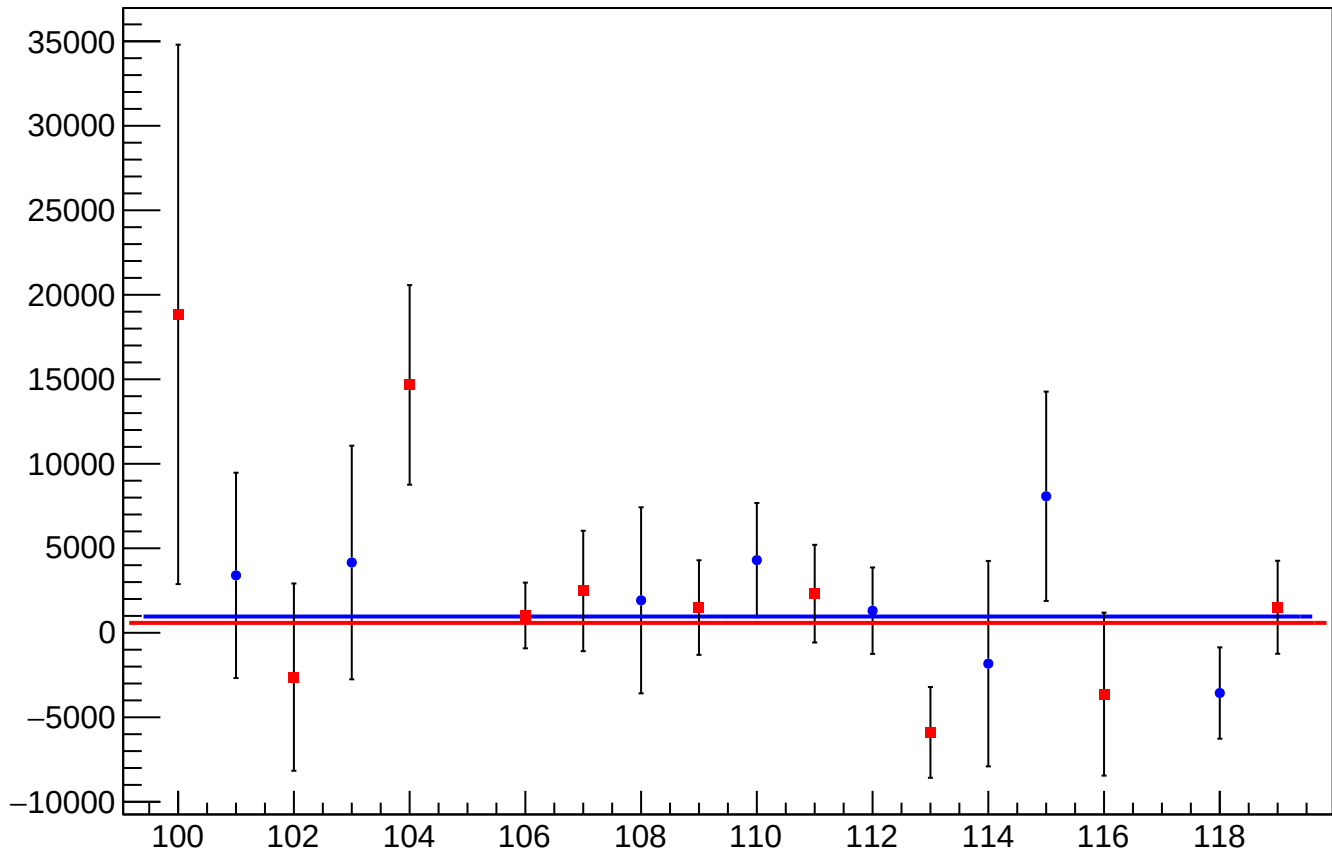
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1777.461+/-0.467  $\chi^2/\text{NDF}$ : 178728.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_reg\_correction\_mean vs Slug



Right In: 962.701 $\pm$ 1398.015  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 587.362 $\pm$ 1015.701  $\chi^2$ /NDF: 14.8/9

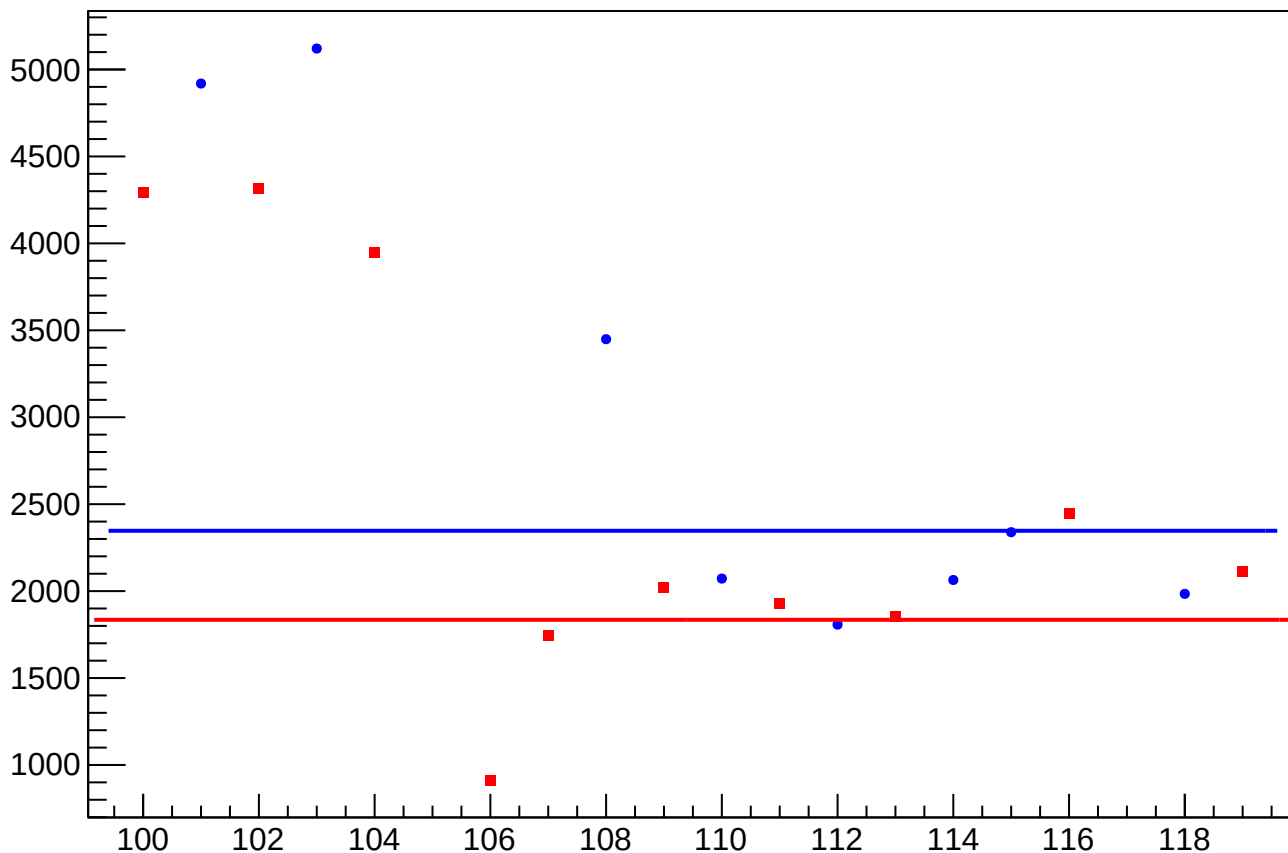
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 717.036 $\pm$ 821.724  $\chi^2$ /NDF: 20.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_reg\_correction\_rms vs Slug



Right In: 2347.002 $\pm$ 0.989  $\chi^2$ /NDF: 903520.2/7

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

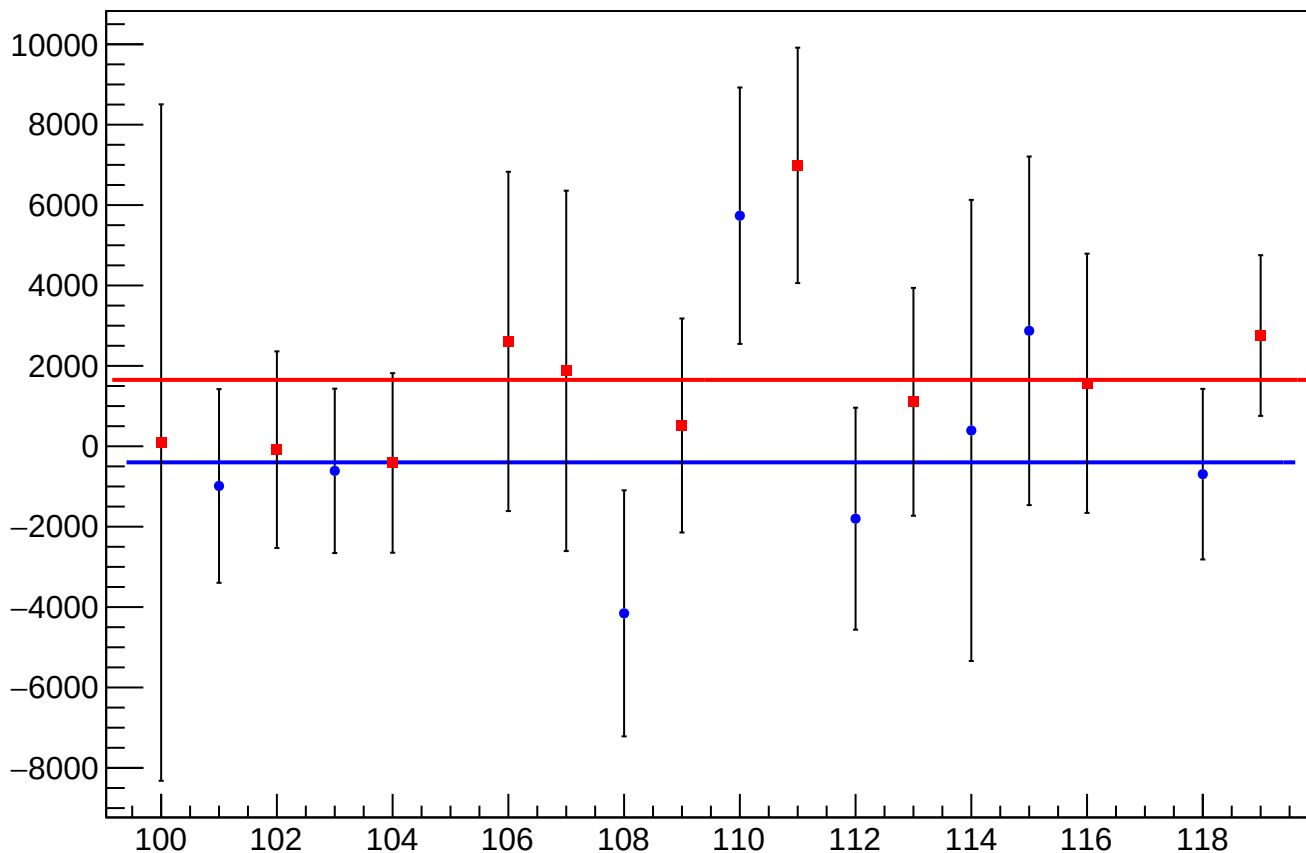
Right Out: 1835.011 $\pm$ 0.718  $\chi^2$ /NDF: 1220206.1/9

All: 2011.896 $\pm$ 0.581  $\chi^2$ /NDF: 2299296.0/17

- 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\_atl\_dd\_mean vs Slug



Right In: -399.830+/-974.339  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1652.112+/-906.654  $\chi^2/\text{NDF}$ : 5.3/9

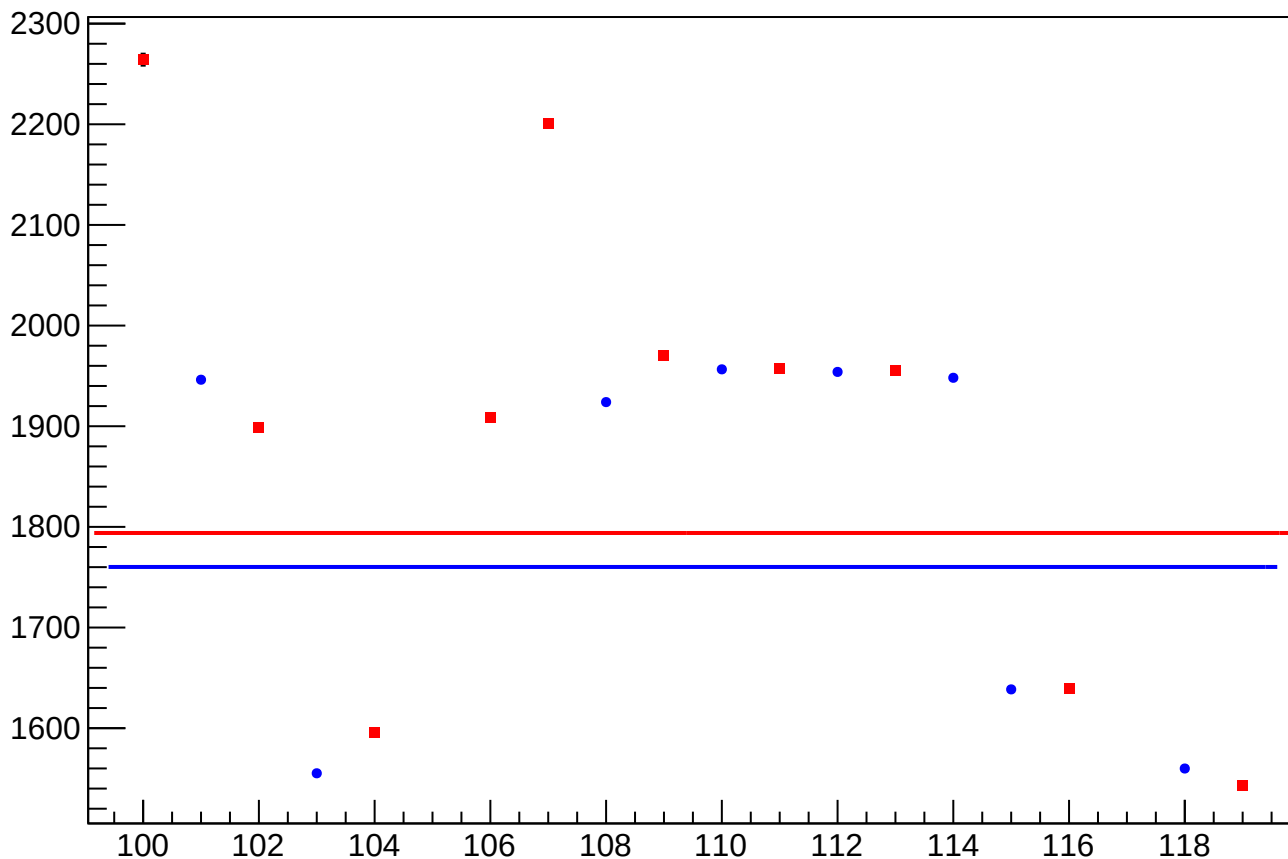
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 699.882+/-663.741  $\chi^2/\text{NDF}$ : 13.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_dd\_rms vs Slug



Right In: 1760.182+/-0.689  $\chi^2/\text{NDF}$ : 76717.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1793.943+/-0.636  $\chi^2/\text{NDF}$ : 101786.9/9

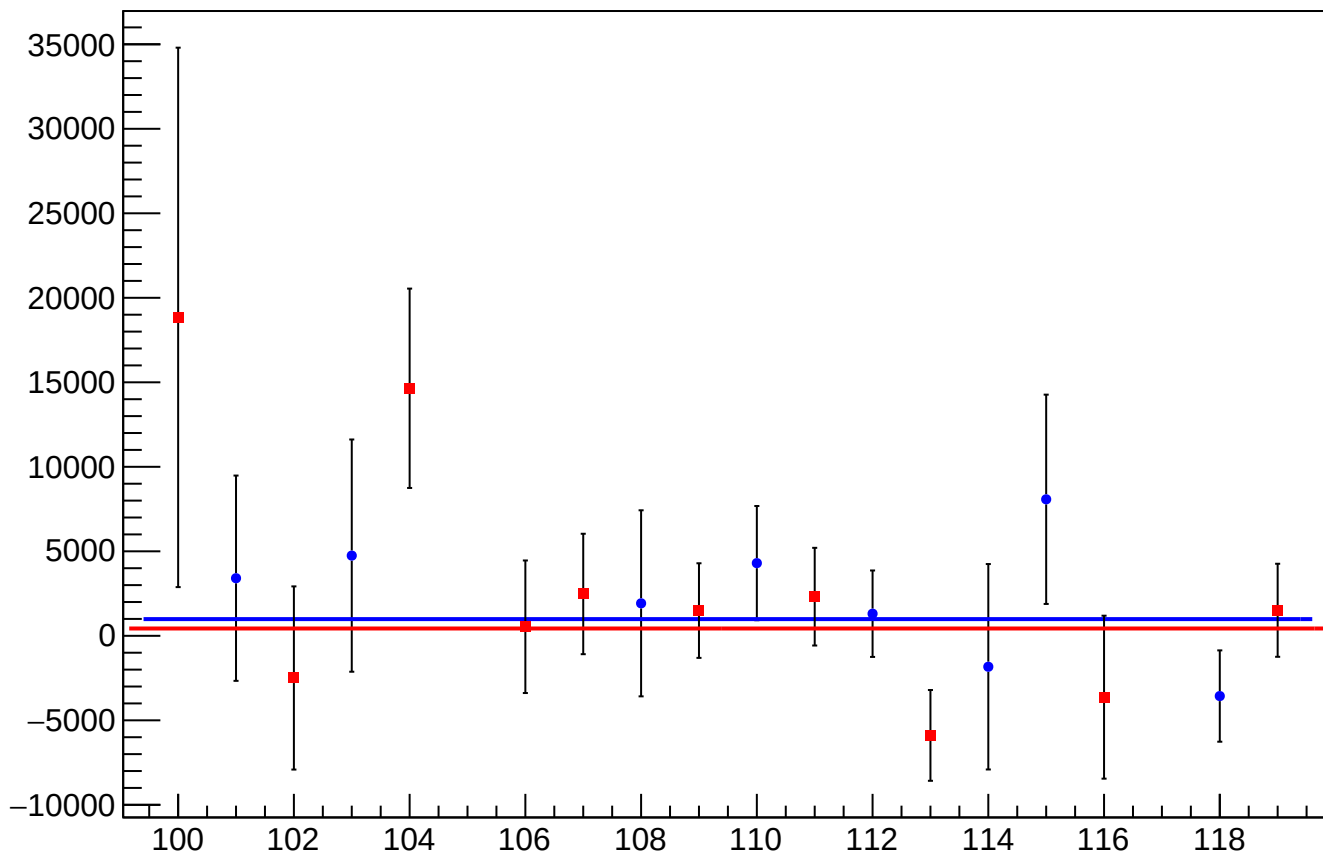
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1778.417+/-0.467  $\chi^2/\text{NDF}$ : 179801.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_cor\_correction\_mean vs Slug



Right In: 988.894+/-1397.650  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 433.339+/-1138.450  $\chi^2/\text{NDF}$ : 14.7/9

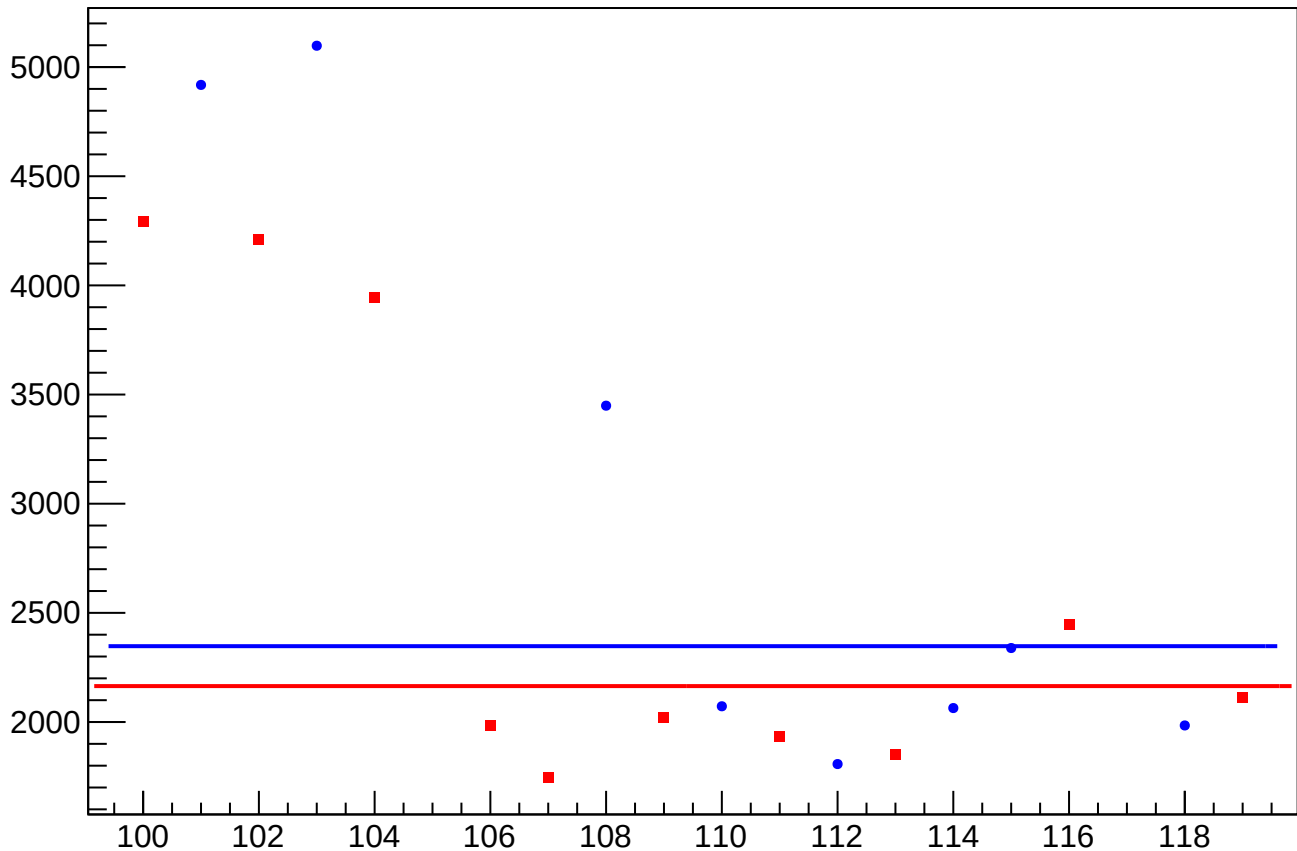
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 654.923+/-882.682  $\chi^2/\text{NDF}$ : 20.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_cor\_correction\_rms vs Slug



Right In: 2347.395+/-0.988  $\chi^2/\text{NDF}$ : 901890.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2164.536+/-0.805  $\chi^2/\text{NDF}$ : 586779.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

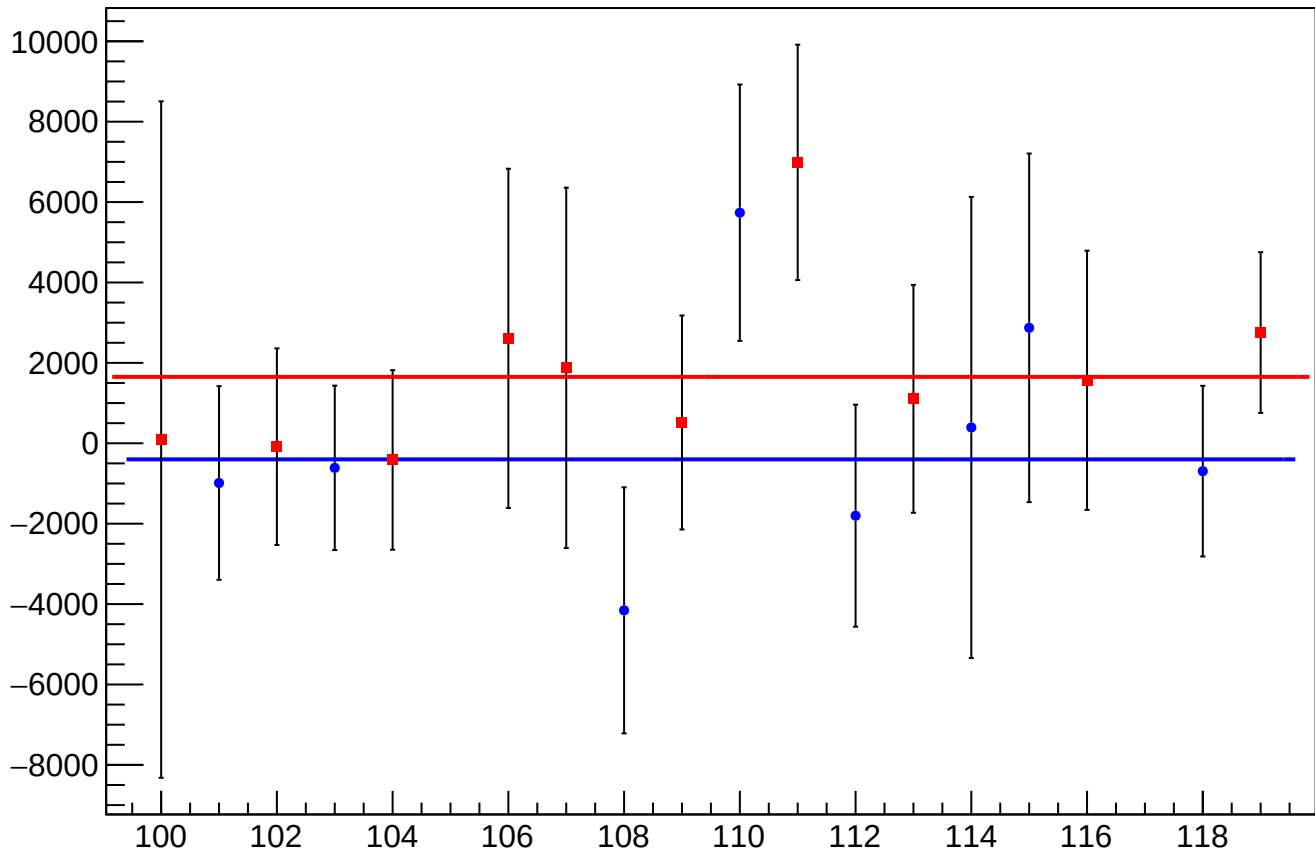
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2237.470+/-0.624  $\chi^2/\text{NDF}$ : 1509249.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_atl\_dd\_mean vs Slug



Right In: -399.830+/-974.339  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1652.112+/-906.654  $\chi^2/\text{NDF}$ : 5.3/9

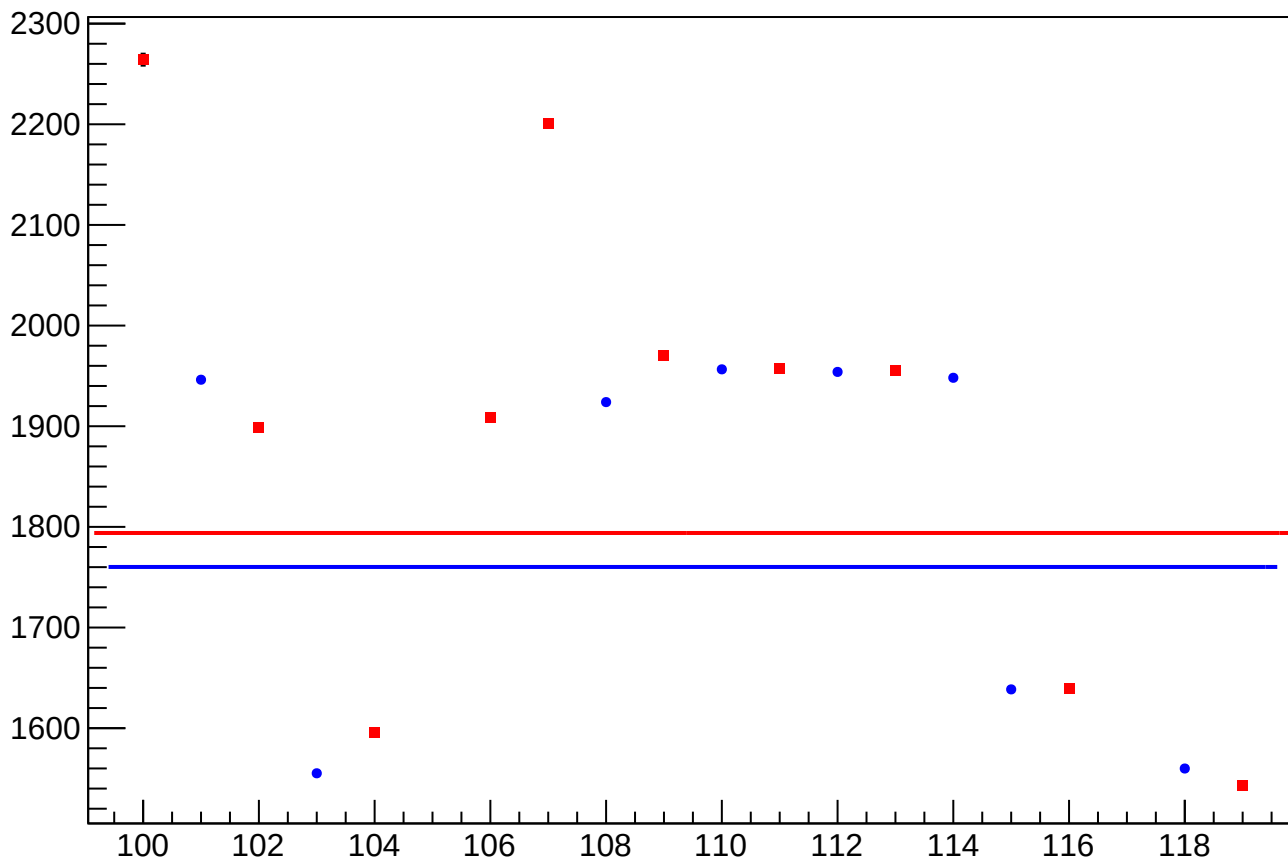
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 699.882+/-663.741  $\chi^2/\text{NDF}$ : 13.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl\_dd\_rms vs Slug



Right In: 1760.182 $\pm$ 0.689  $\chi^2$ /NDF: 76717.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1793.943 $\pm$ 0.636  $\chi^2$ /NDF: 101786.9/9

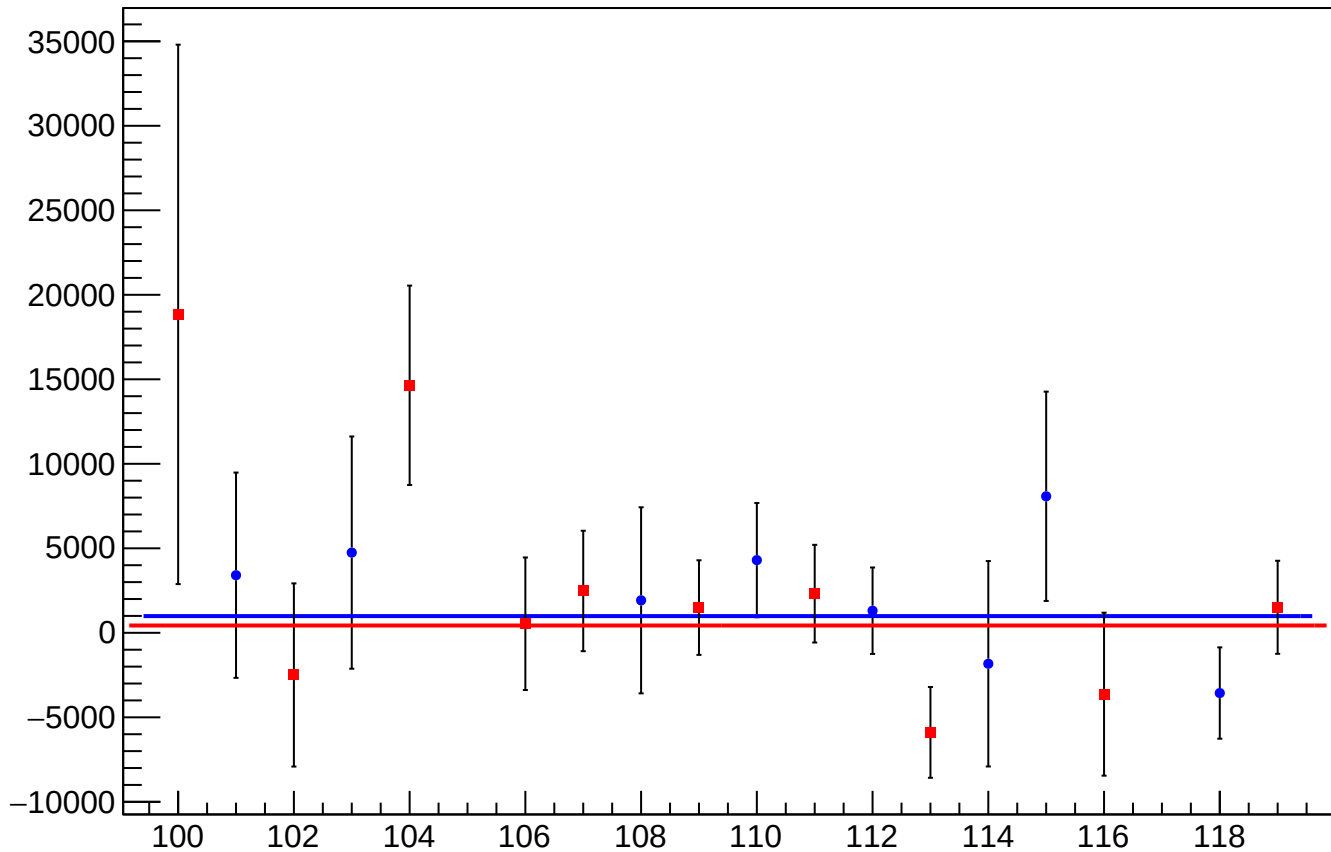
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1778.417 $\pm$ 0.467  $\chi^2$ /NDF: 179801.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 988.894+/-1397.650  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 433.339+/-1138.450  $\chi^2/\text{NDF}$ : 14.7/9

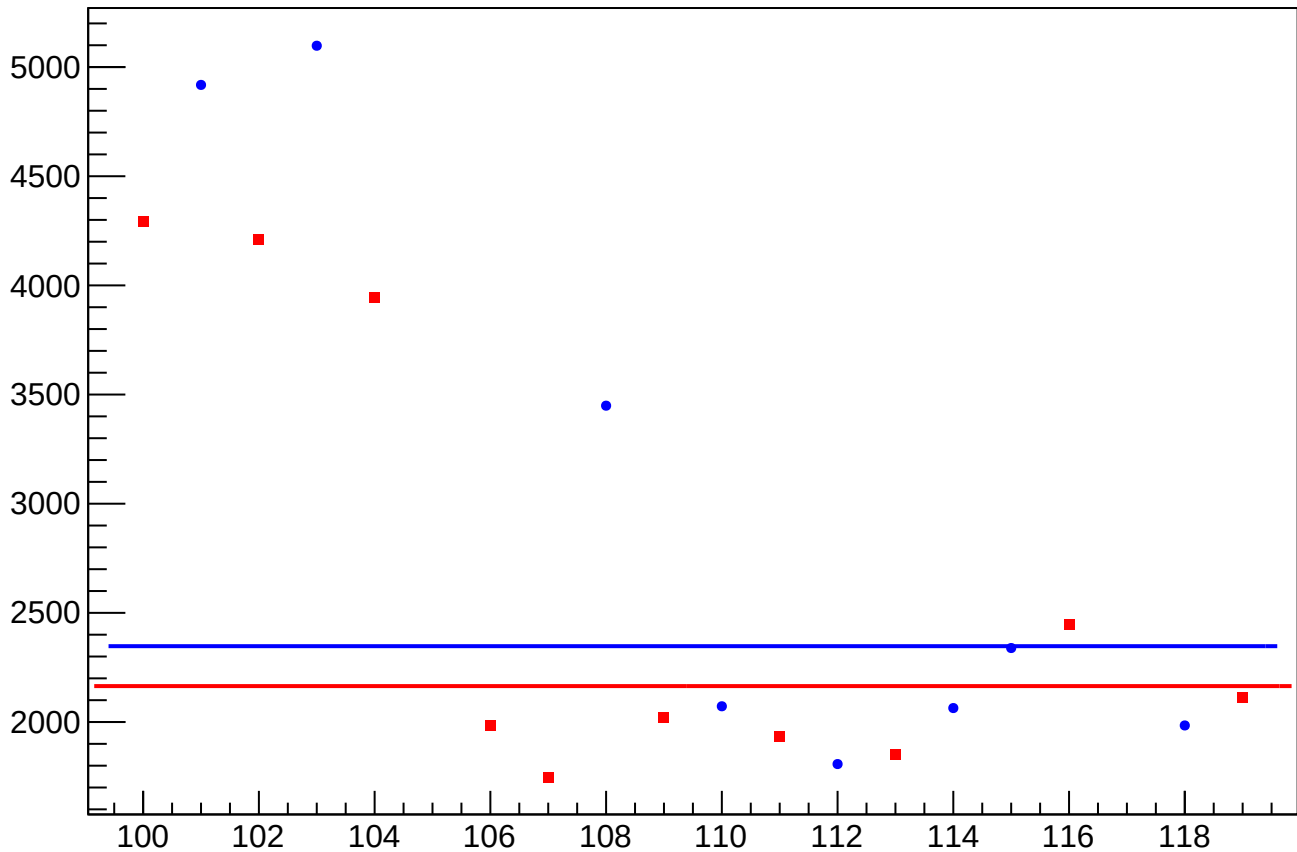
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 654.923+/-882.682  $\chi^2/\text{NDF}$ : 20.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 2347.395+/-0.988  $\chi^2/\text{NDF}$ : 901890.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2164.536+/-0.805  $\chi^2/\text{NDF}$ : 586779.0/9

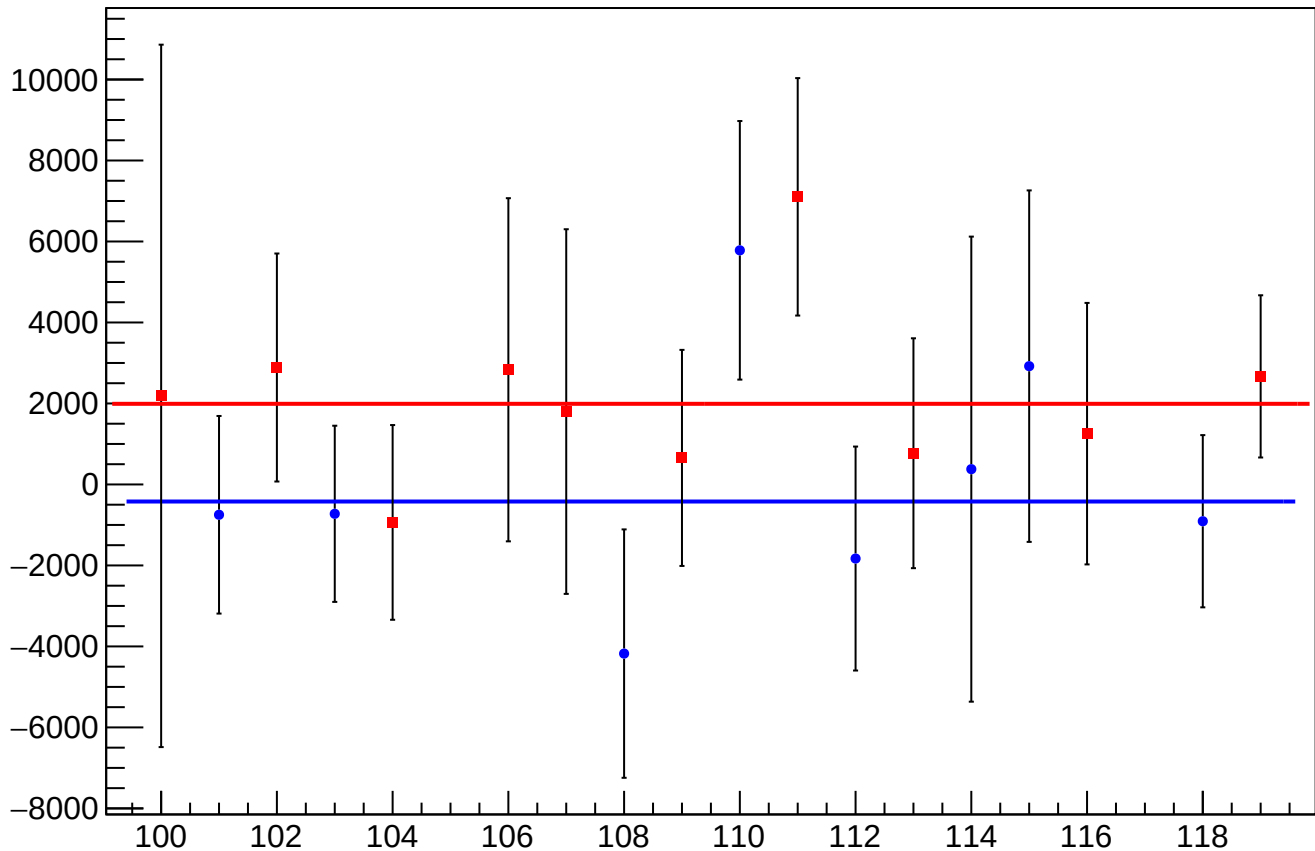
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2237.470+/-0.624  $\chi^2/\text{NDF}$ : 1509249.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl\_dd\_mean vs Slug



Right In: -421.405+/-990.644  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1991.290+/-935.114  $\chi^2/\text{NDF}$ : 5.3/9

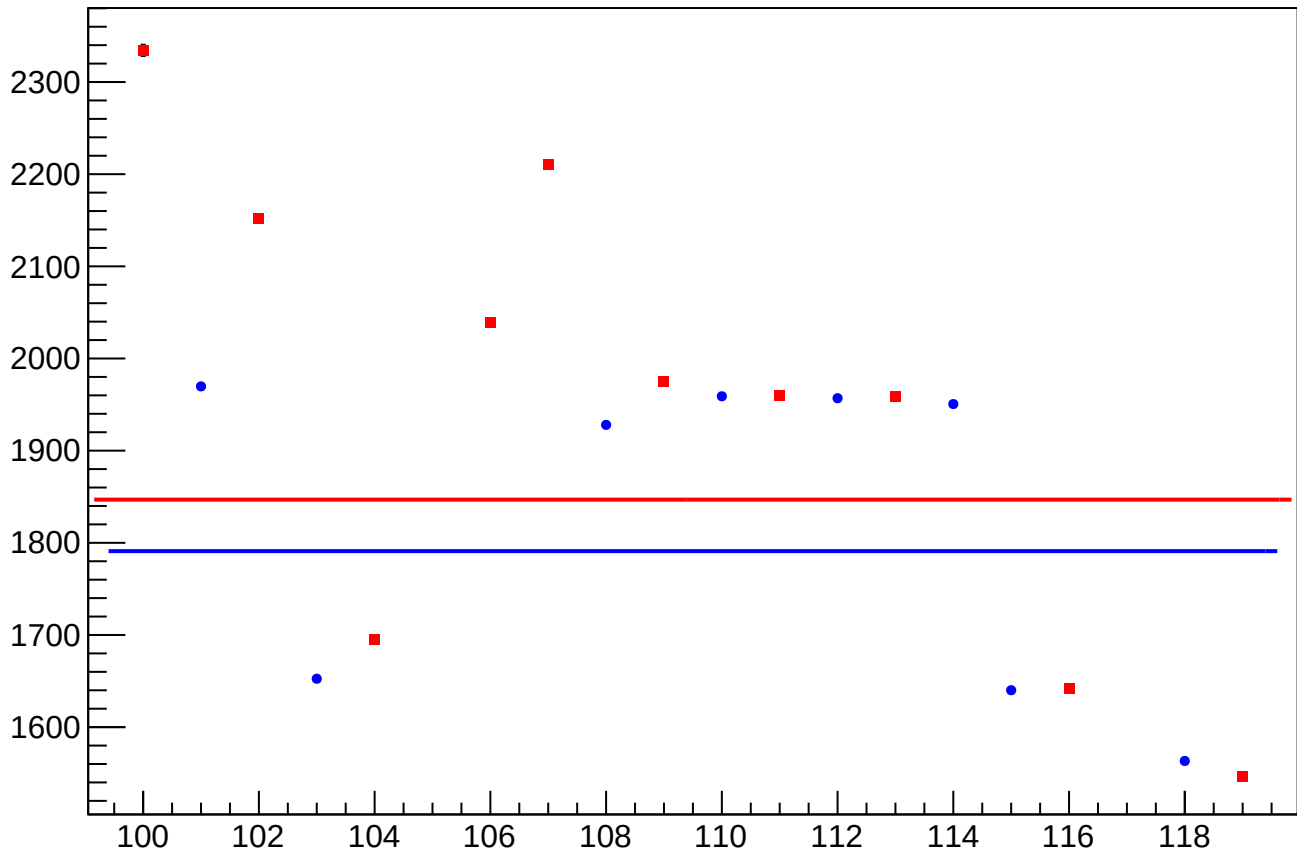
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 854.456+/-680.009  $\chi^2/\text{NDF}$ : 14.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl\_dd\_rms vs Slug



Right In: 1790.981+/-0.700  $\chi^2/\text{NDF}$ : 62448.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1846.877+/-0.658  $\chi^2/\text{NDF}$ : 119598.7/9

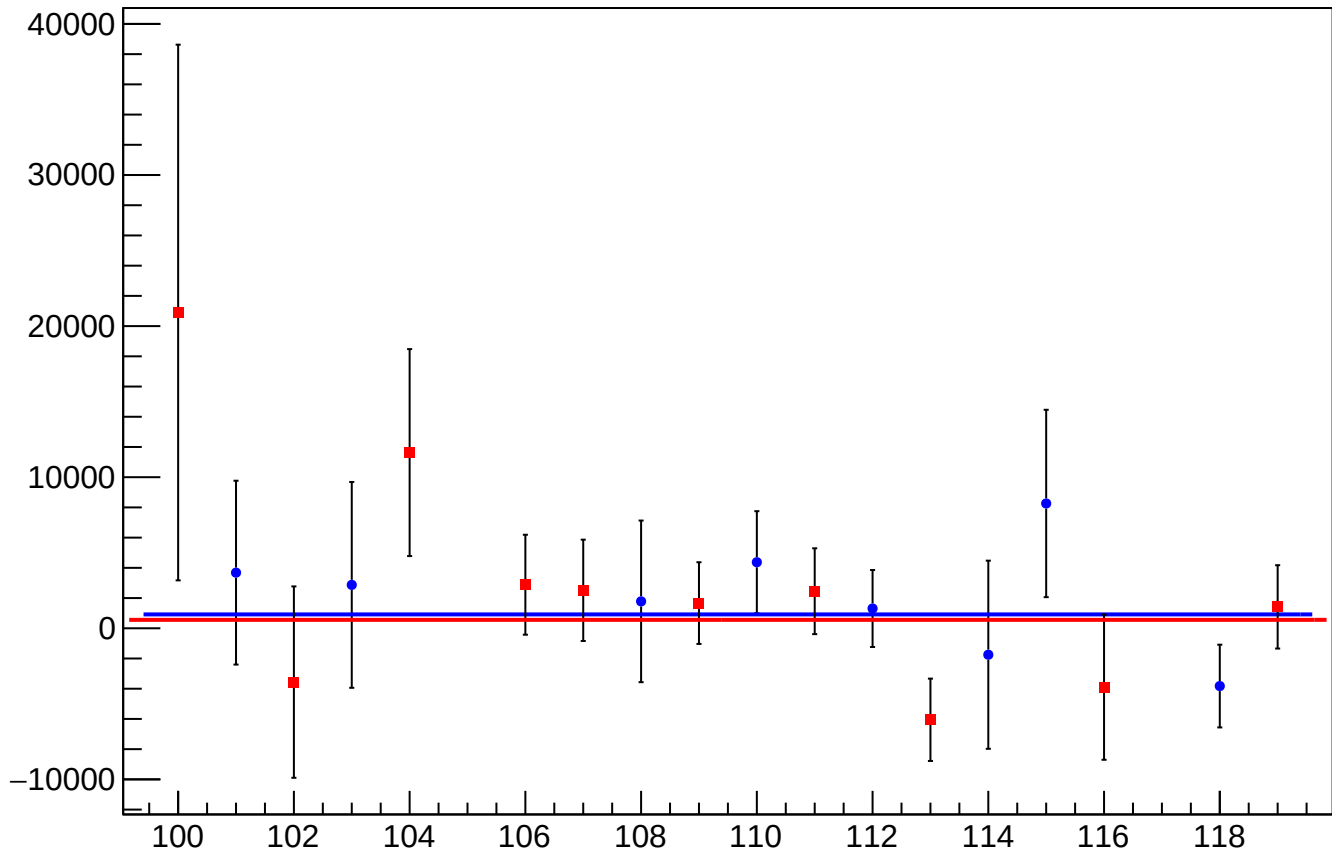
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1820.674+/-0.480  $\chi^2/\text{NDF}$ : 185429.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_dit\_correction\_mean vs Slug



Right In: 918.062 $\pm$ 1399.391  $\chi^2$ /NDF: 6.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 558.447 $\pm$ 1118.104  $\chi^2$ /NDF: 12.6/9

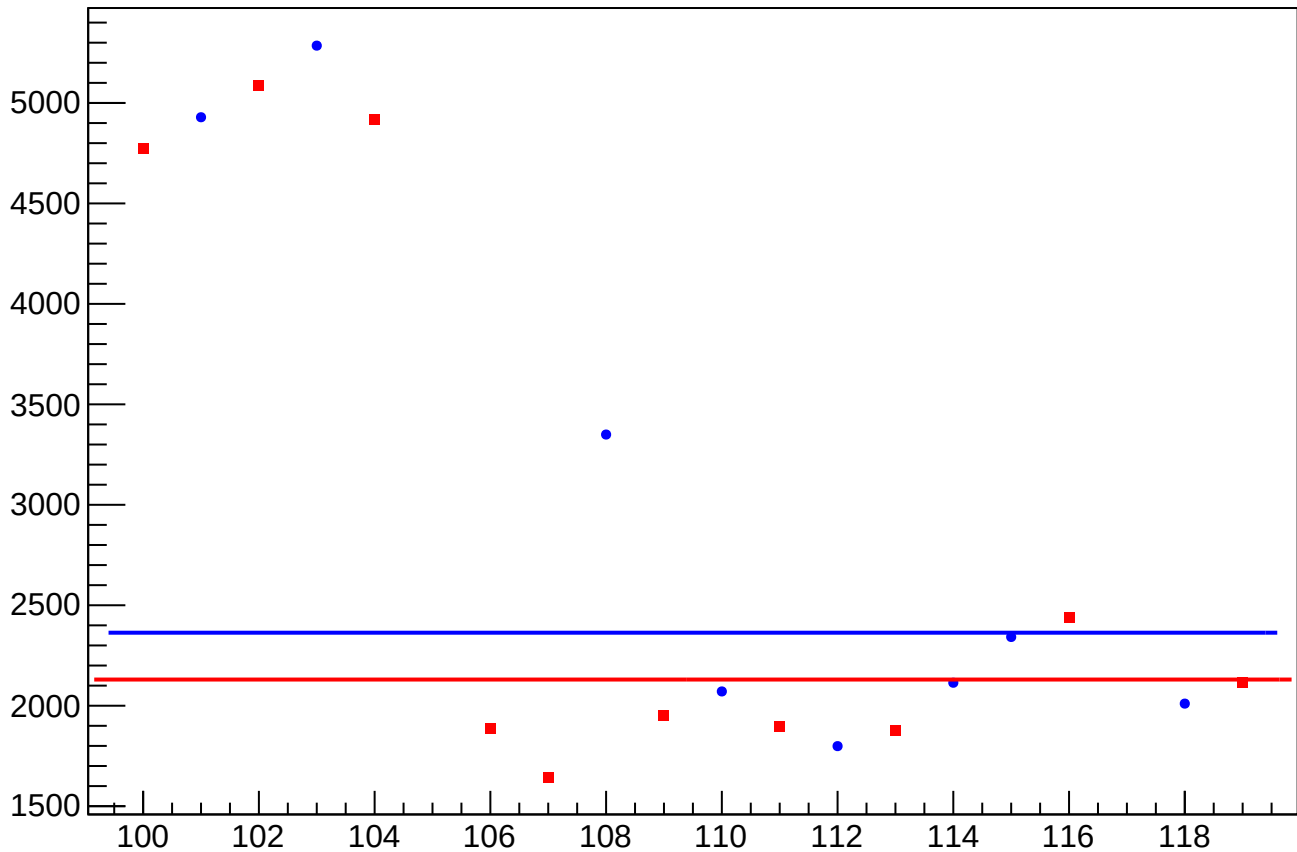
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 698.569 $\pm$ 873.522  $\chi^2$ /NDF: 18.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_dit\_correction\_rms vs Slug



Right In: 2363.434+/-0.990  $\chi^2/\text{NDF}$ : 941438.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2130.293+/-0.791  $\chi^2/\text{NDF}$ : 912288.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

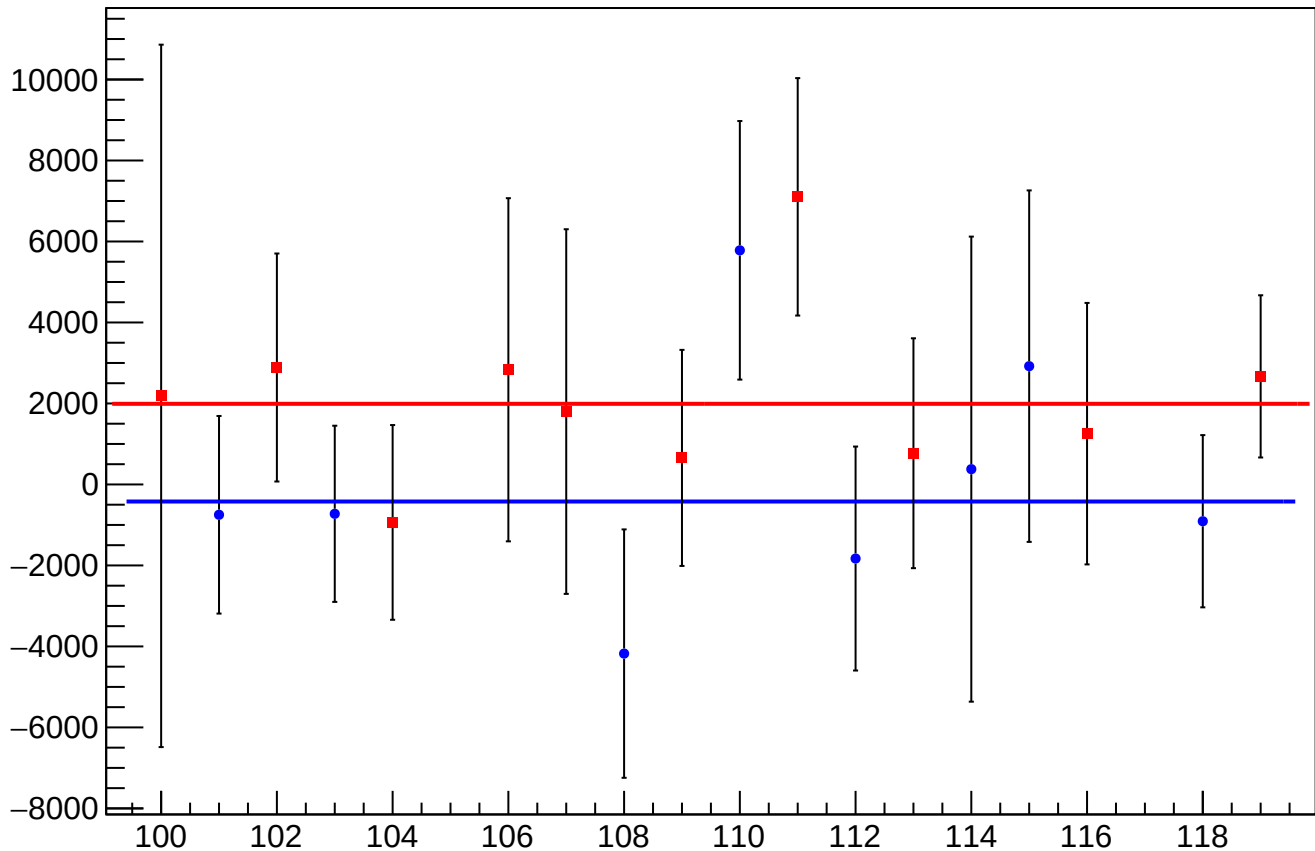
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2221.136+/-0.618  $\chi^2/\text{NDF}$ : 1887609.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_atl\_dd\_mean vs Slug



Right In: -421.413+/-990.644  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1991.299+/-935.114  $\chi^2/\text{NDF}$ : 5.3/9

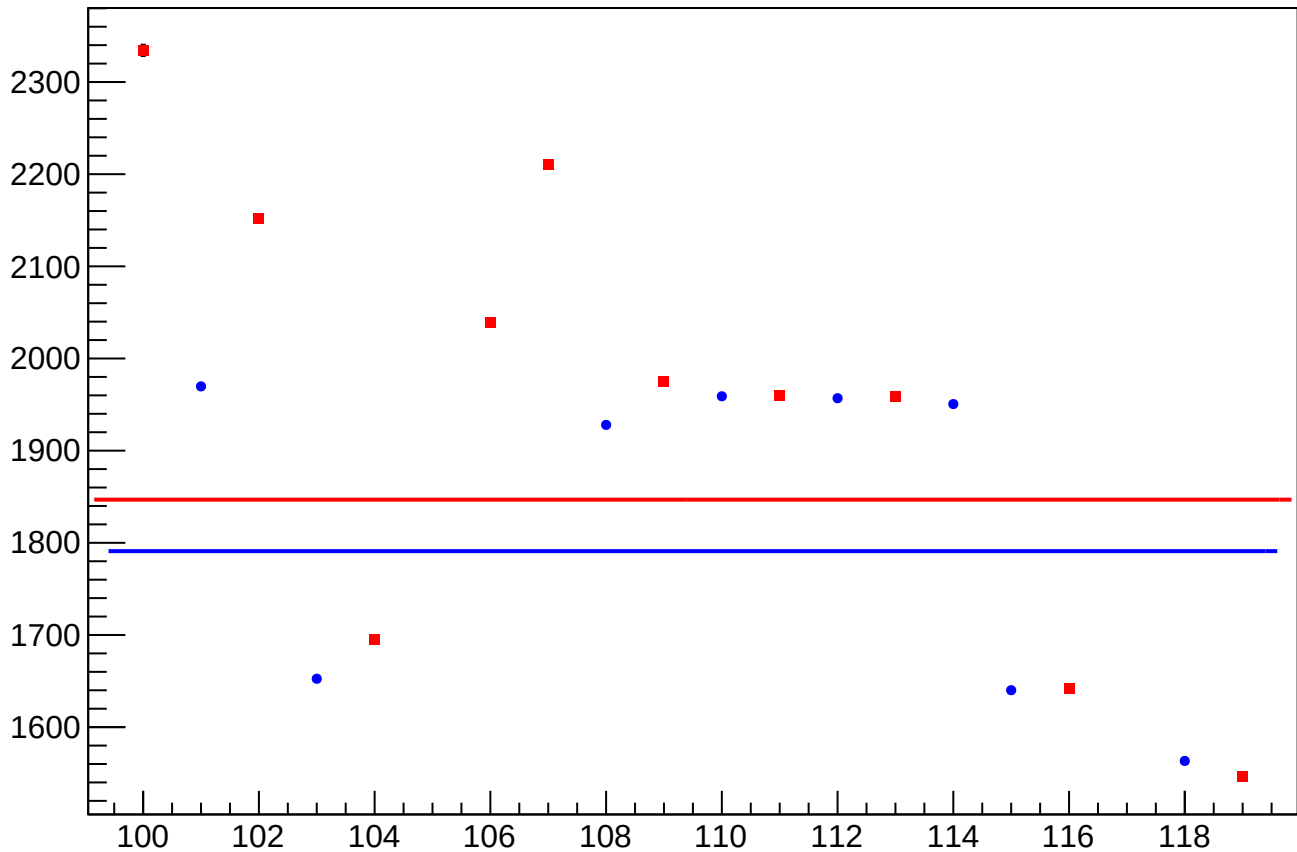
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 854.457+/-680.009  $\chi^2/\text{NDF}$ : 14.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl\_dd\_rms vs Slug



Right In: 1790.980+/-0.700  $\chi^2/\text{NDF}$ : 62448.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1846.876+/-0.658  $\chi^2/\text{NDF}$ : 119598.3/9

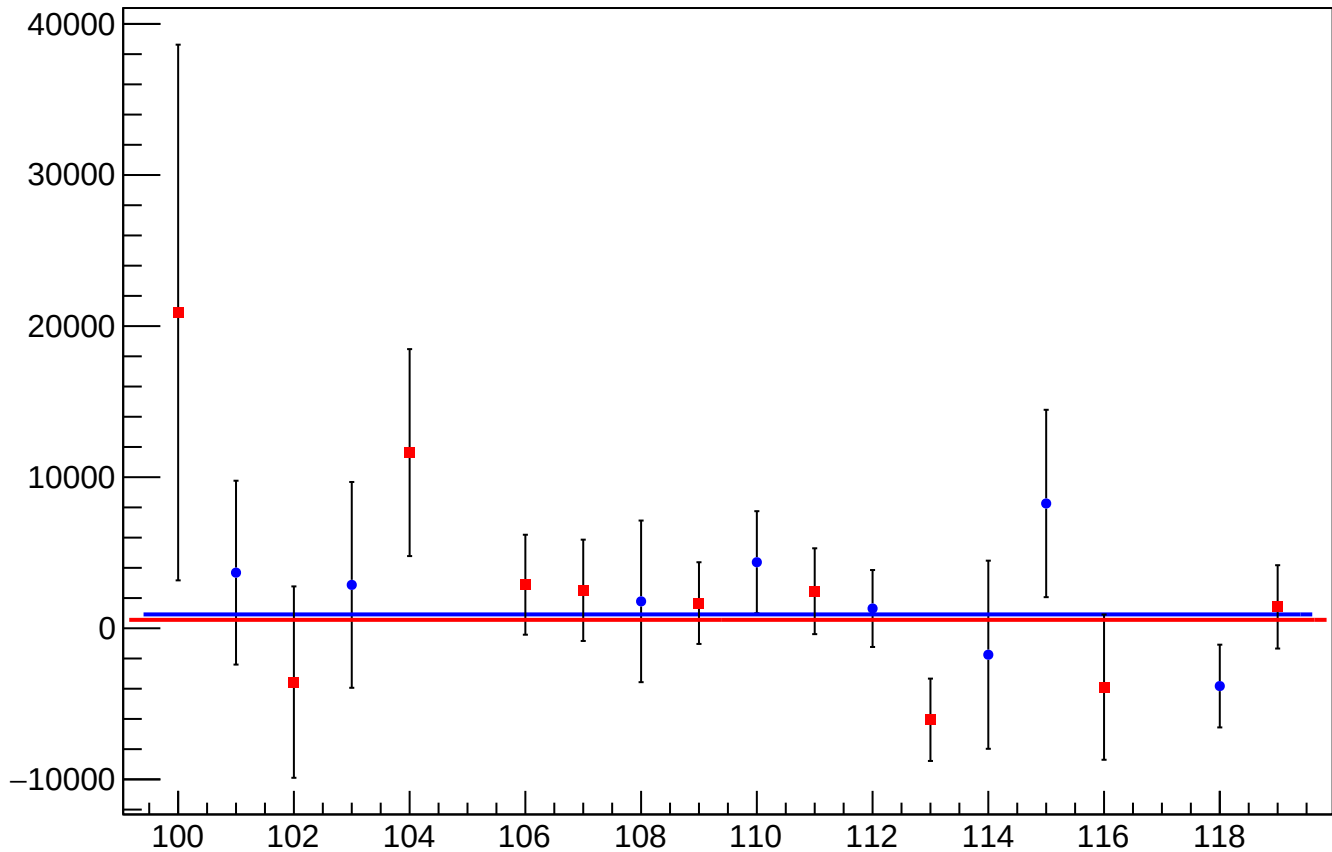
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1820.674+/-0.480  $\chi^2/\text{NDF}$ : 185429.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 918.050 $\pm$ 1399.385  $\chi^2$ /NDF: 6.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 558.447 $\pm$ 1118.100  $\chi^2$ /NDF: 12.6/9

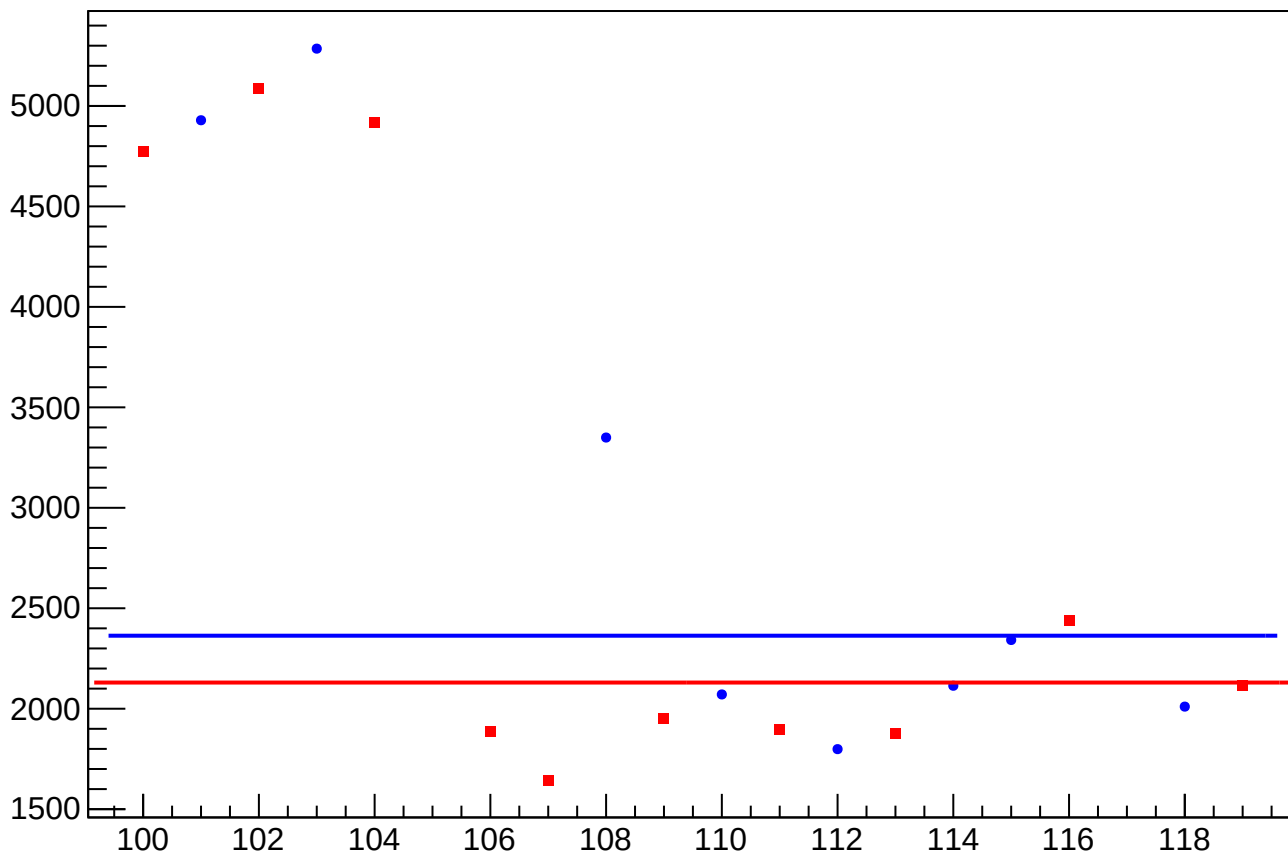
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 698.565 $\pm$ 873.518  $\chi^2$ /NDF: 18.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 2363.422+/-0.990  $\chi^2/\text{NDF}$ : 941444.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2130.285+/-0.791  $\chi^2/\text{NDF}$ : 912293.0/9

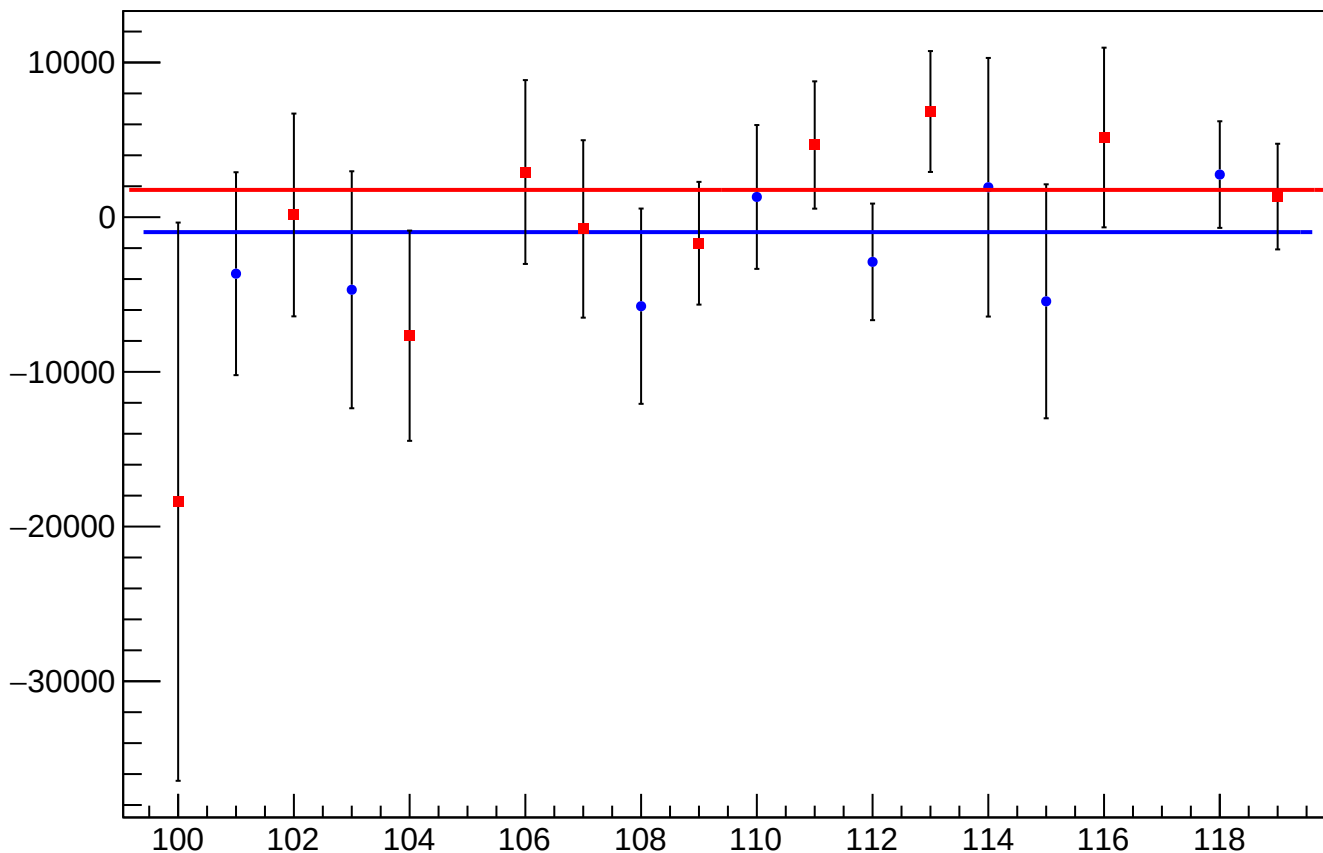
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2221.126+/-0.618  $\chi^2/\text{NDF}$ : 1887619.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_mean vs Slug



Right In: -965.407 $\pm$ 1831.611  $\chi^2$ /NDF: 3.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1763.301 $\pm$ 1561.393  $\chi^2$ /NDF: 6.8/9

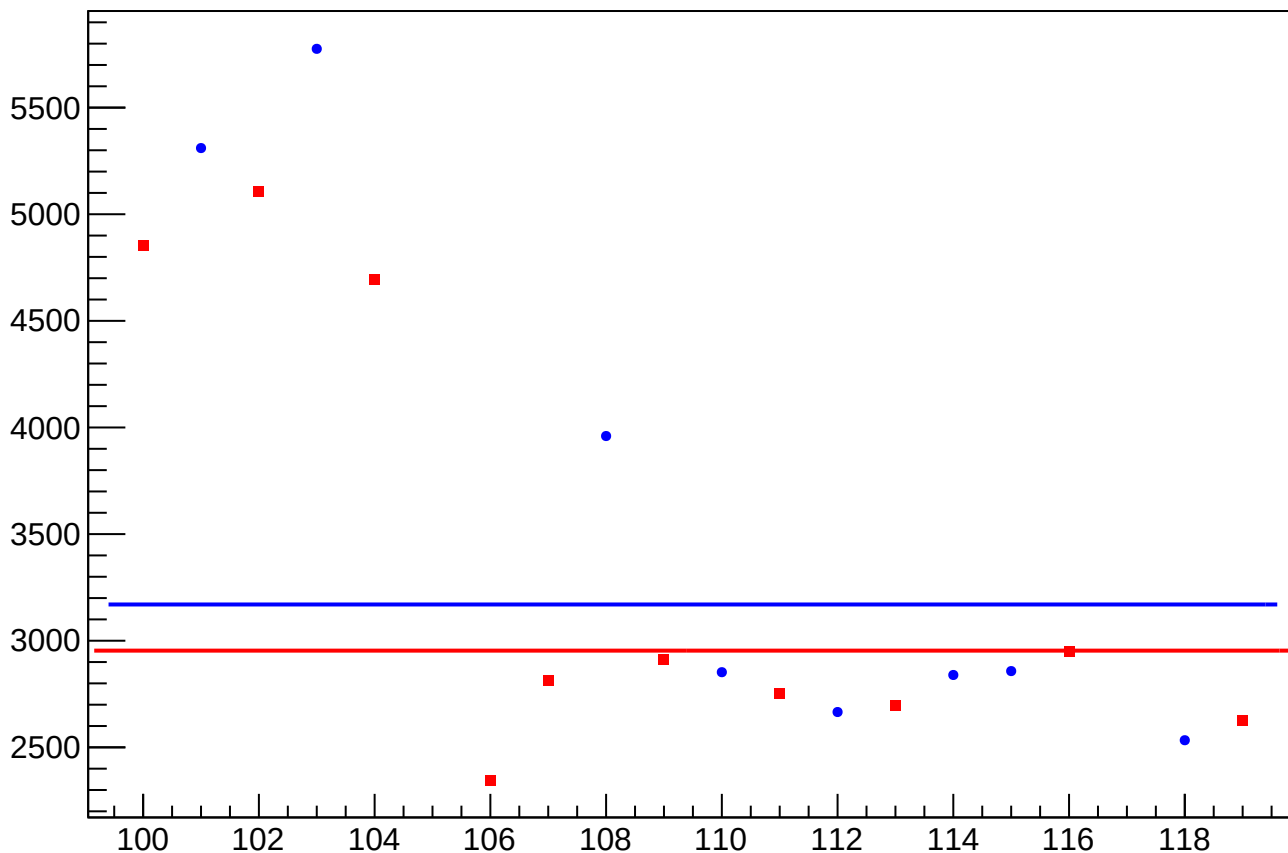
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 614.891 $\pm$ 1188.237  $\chi^2$ /NDF: 11.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_rms vs Slug



Right In: 3169.966+/-1.295  $\chi^2/\text{NDF}$ : 595750.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2953.560+/-1.077  $\chi^2/\text{NDF}$ : 438805.6/9

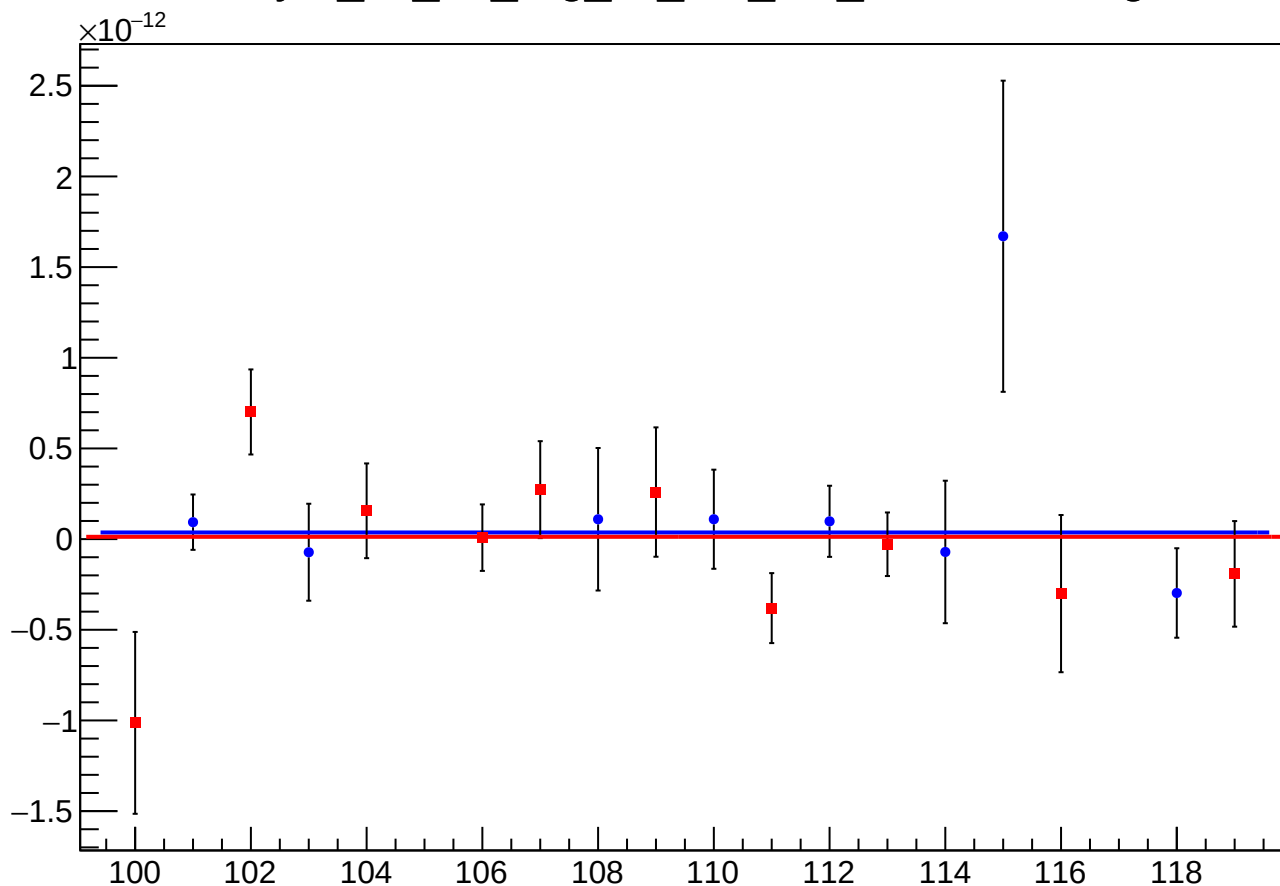
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3042.051+/-0.828  $\chi^2/\text{NDF}$ : 1051059.3/17

- 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: 6.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.8/9

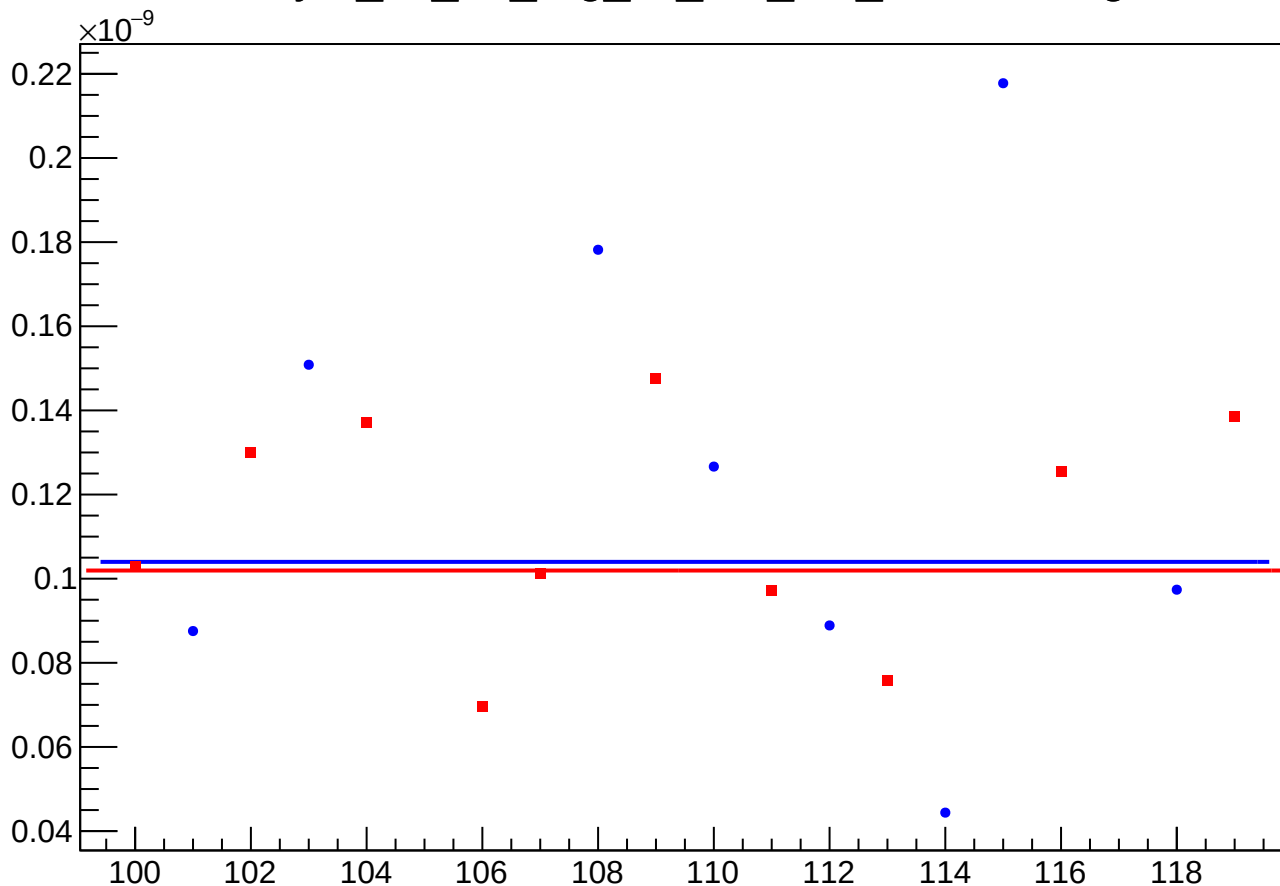
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 25.8/17

- 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  $\chi^2/\text{NDF}$ : 264174.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 243396.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

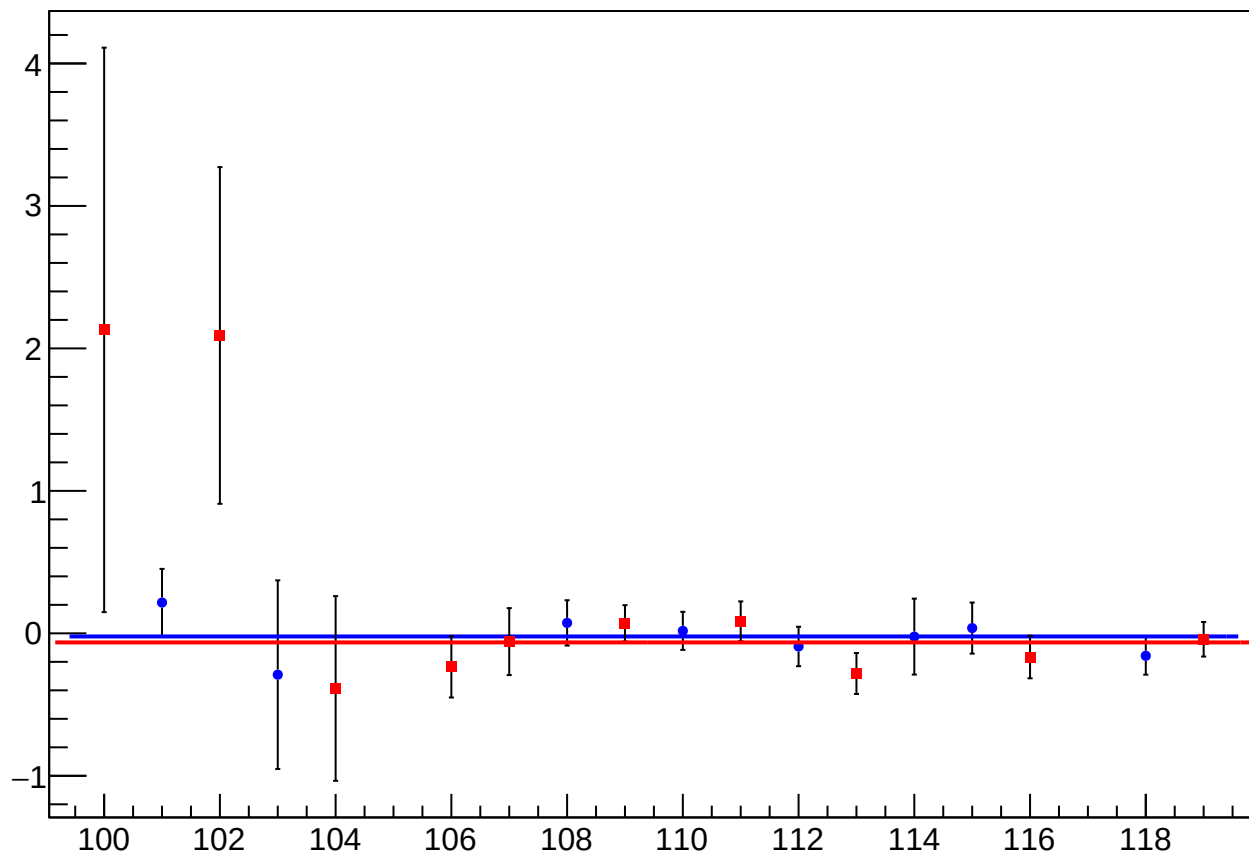
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 508178.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.022 \pm 0.061$   $\chi^2/\text{NDF}$ : 3.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.064 \pm 0.056$   $\chi^2/\text{NDF}$ : 10.5/9

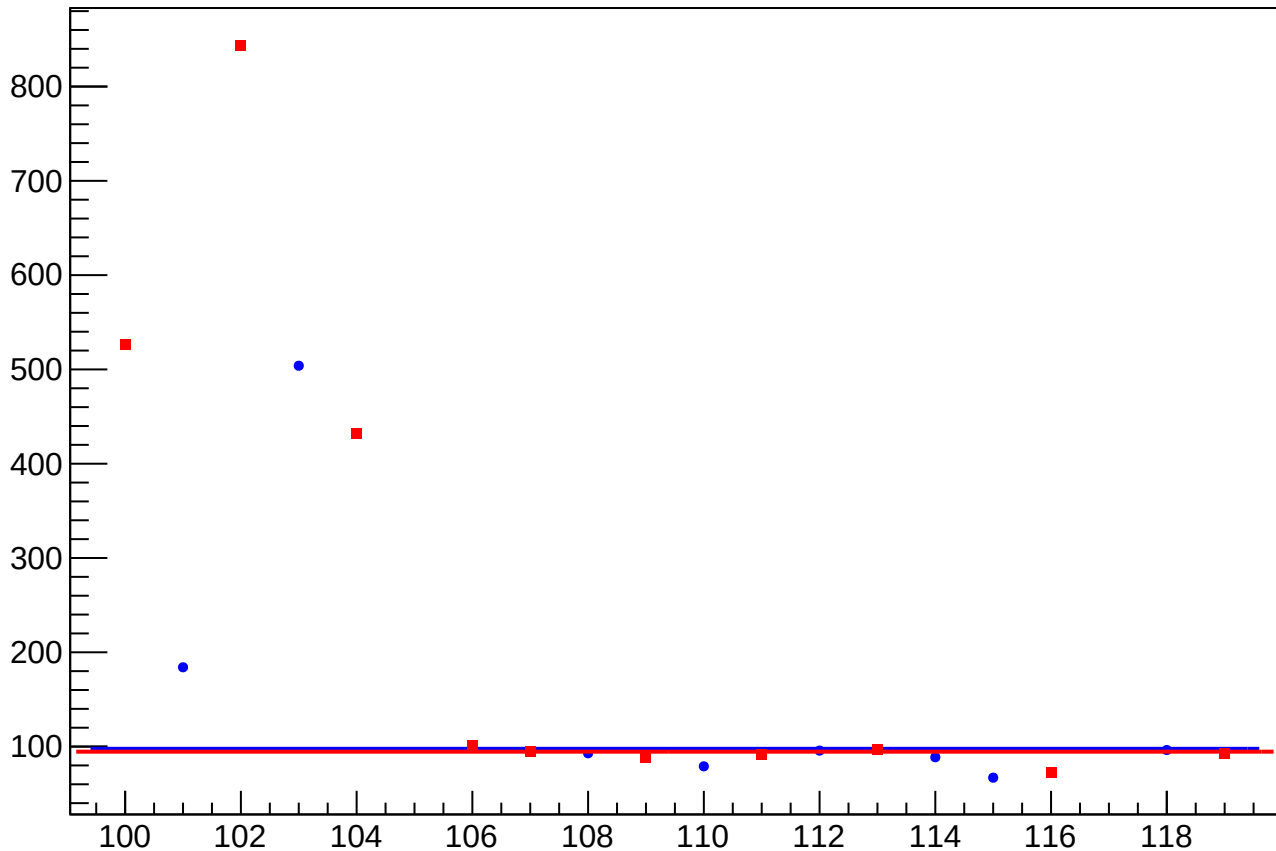
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.044 \pm 0.041$   $\chi^2/\text{NDF}$ : 13.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 97.613+/-0.043  $\chi^2/\text{NDF}$ : 1122684.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.589+/-0.040  $\chi^2/\text{NDF}$ : 1492397.1/9

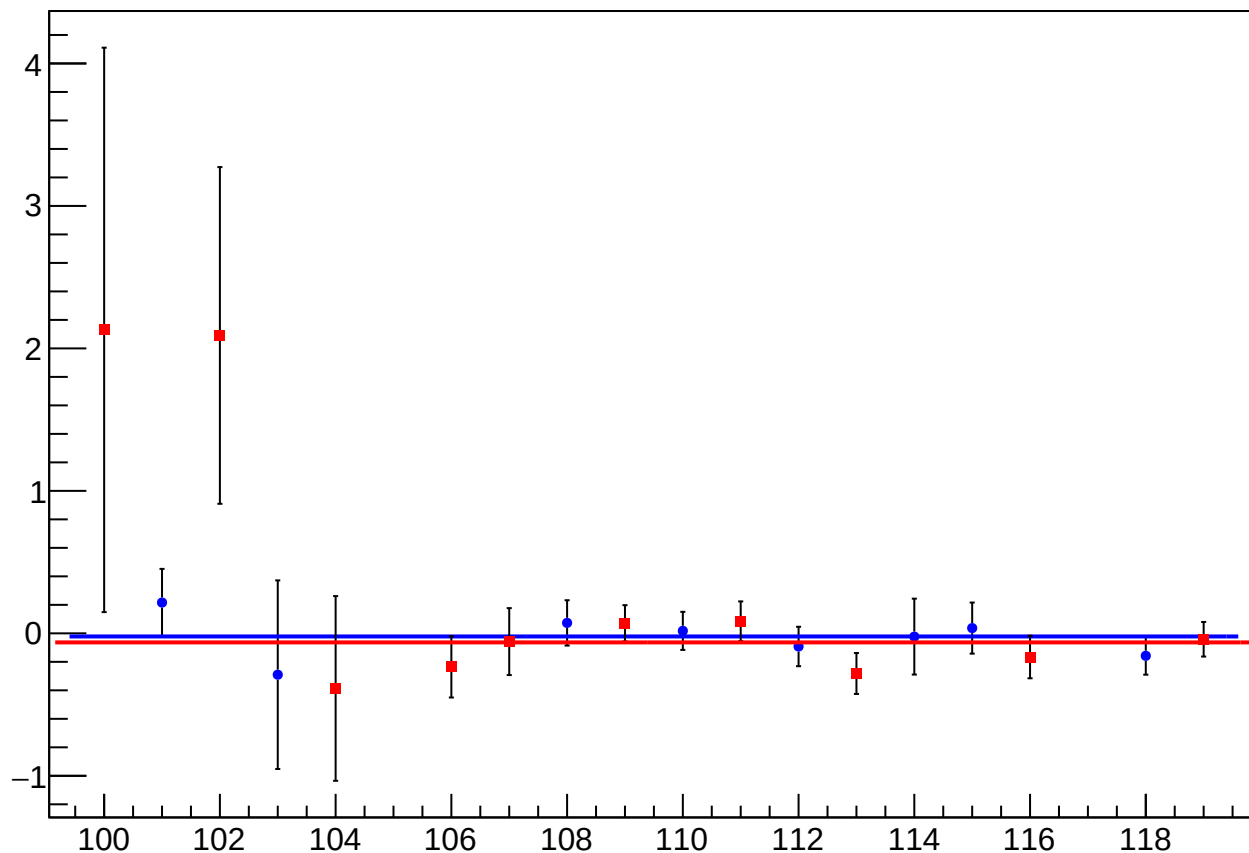
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.979+/-0.029  $\chi^2/\text{NDF}$ : 2617751.4/17

- 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: -0.022 $\pm$ 0.061  $\chi^2$ /NDF: 3.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.064 $\pm$ 0.056  $\chi^2$ /NDF: 10.5/9

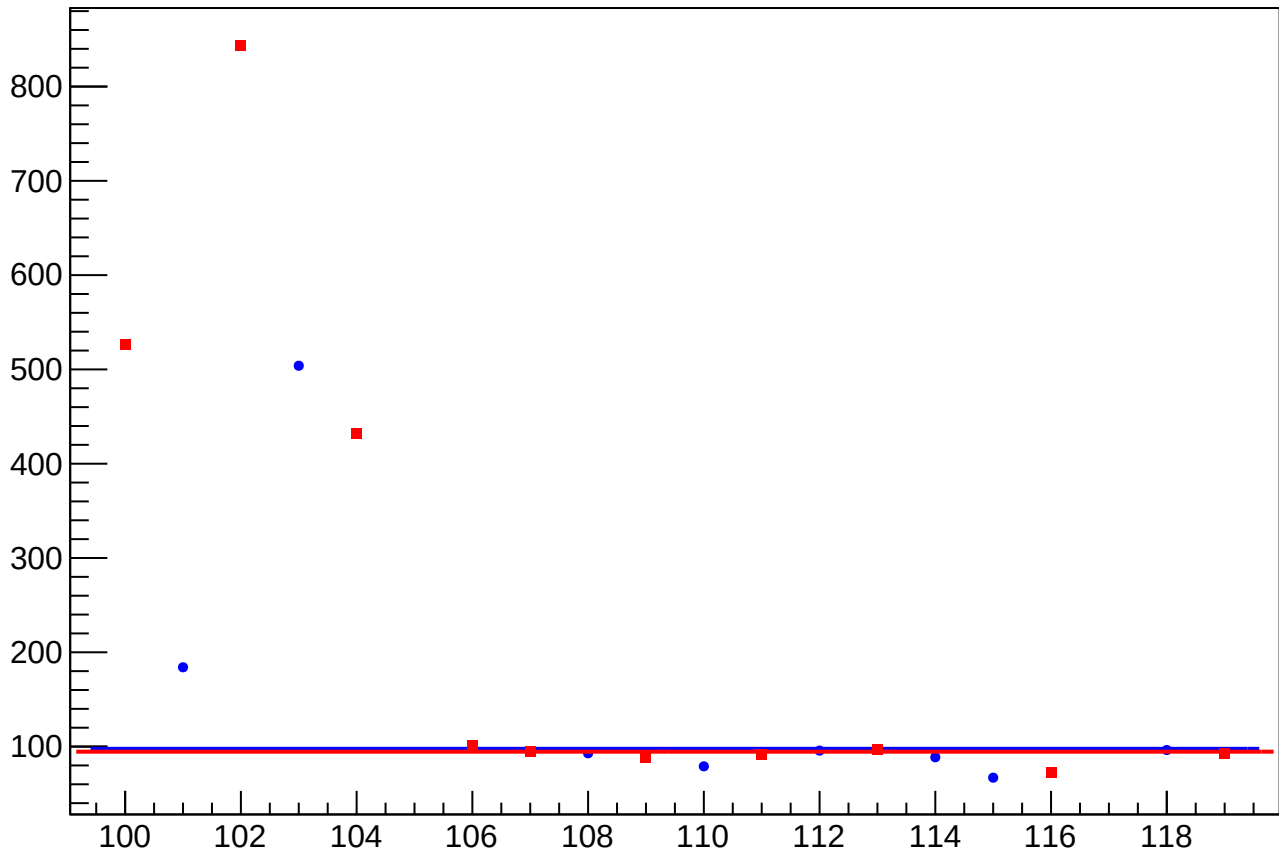
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.044 $\pm$ 0.041  $\chi^2$ /NDF: 13.8/17

- 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: 97.613+/-0.043  $\chi^2/\text{NDF}$ : 1122684.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.589+/-0.040  $\chi^2/\text{NDF}$ : 1492397.1/9

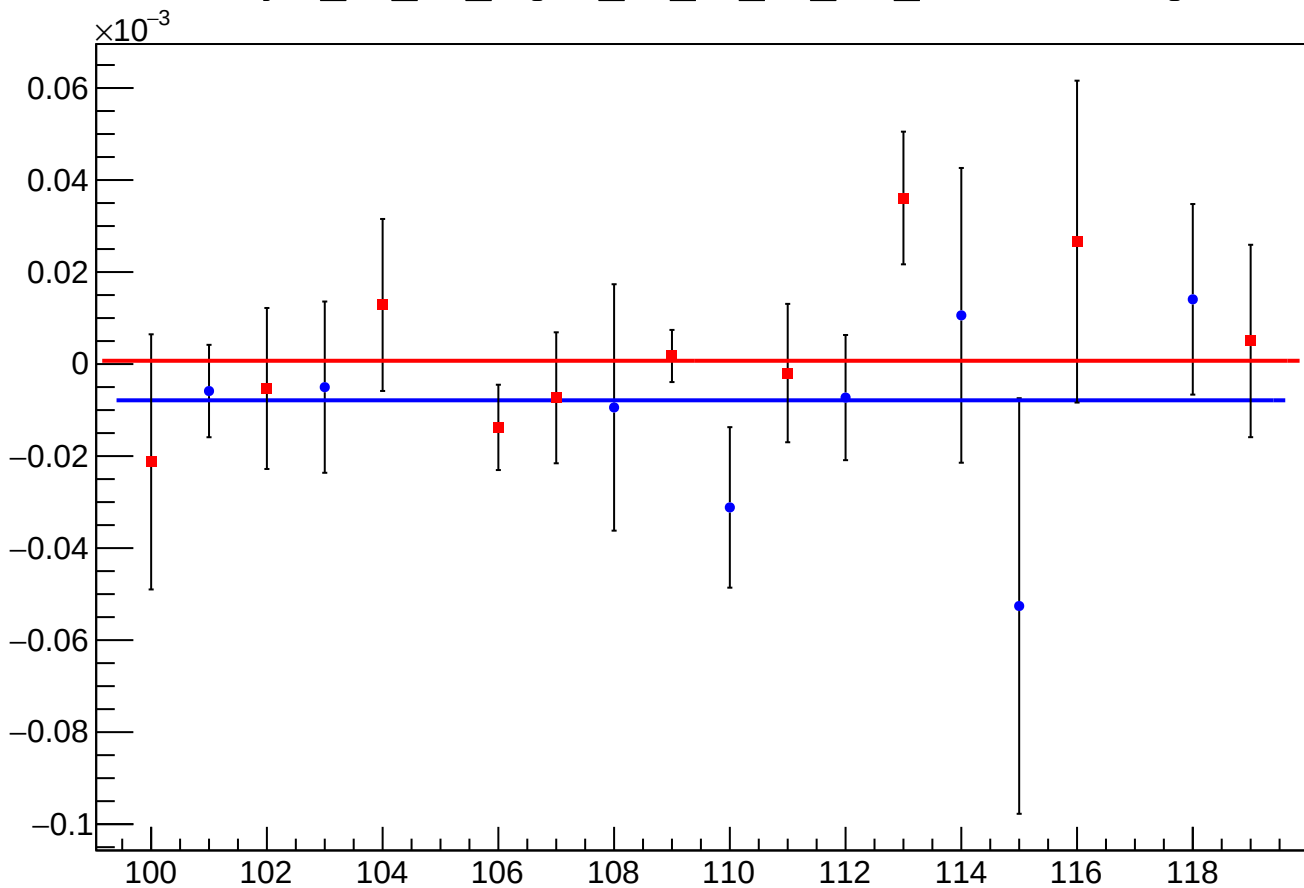
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.979+/-0.029  $\chi^2/\text{NDF}$ : 2617751.4/17

- 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+/-0.000  $\chi^2$ /NDF: 4.3/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 10.6/9

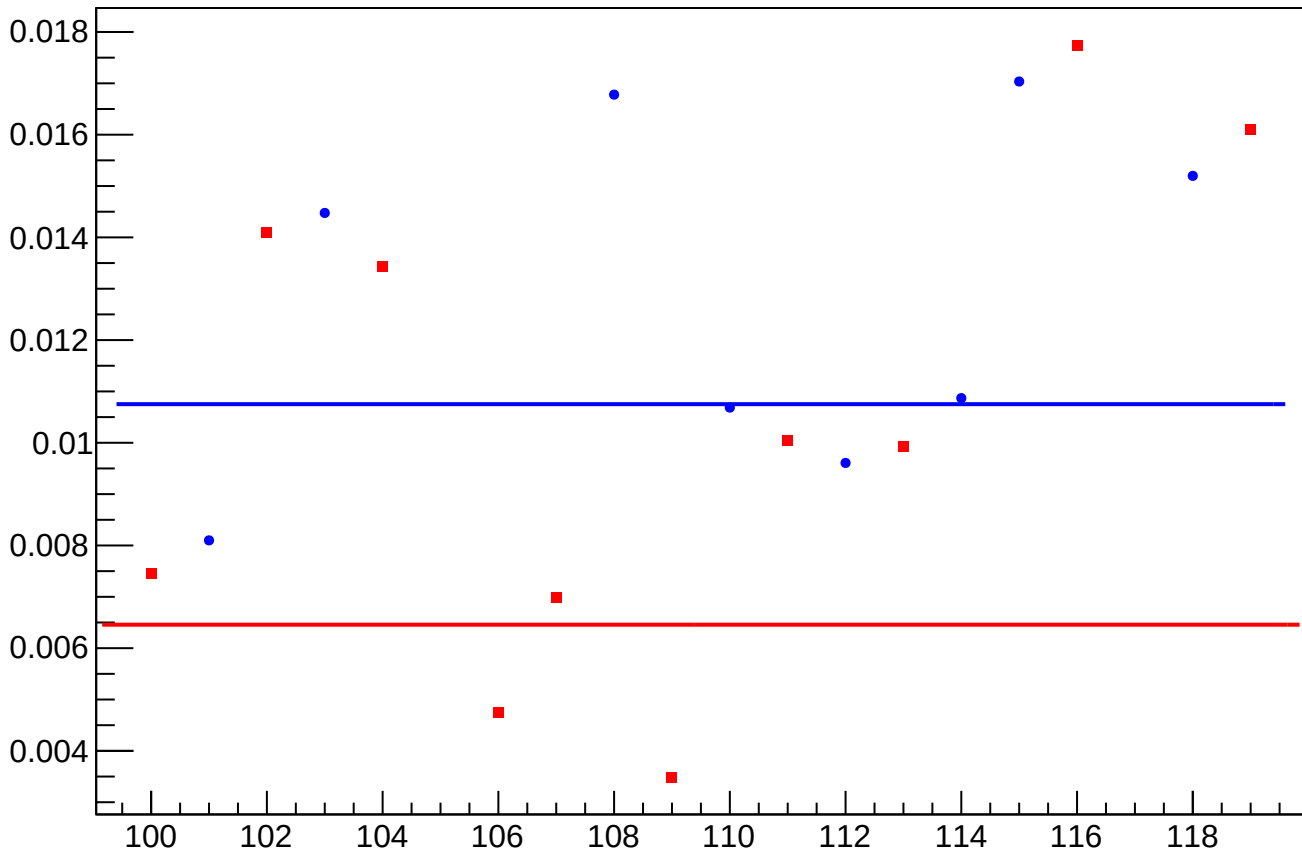
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 16.3/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 466055.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2147105.8/9

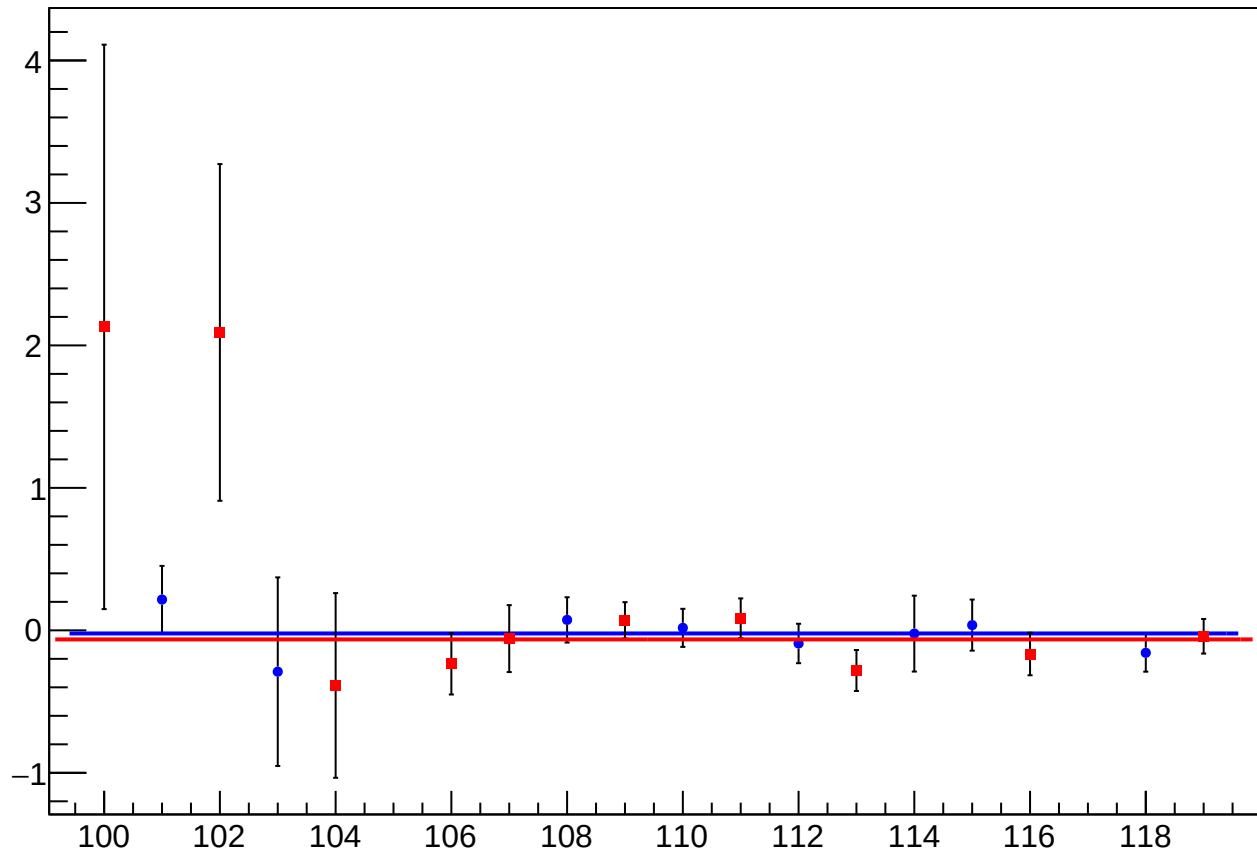
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 3318549.0/17

- 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:  $-0.022 \pm 0.061$   $\chi^2/\text{NDF}$ : 3.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.064 \pm 0.056$   $\chi^2/\text{NDF}$ : 10.5/9

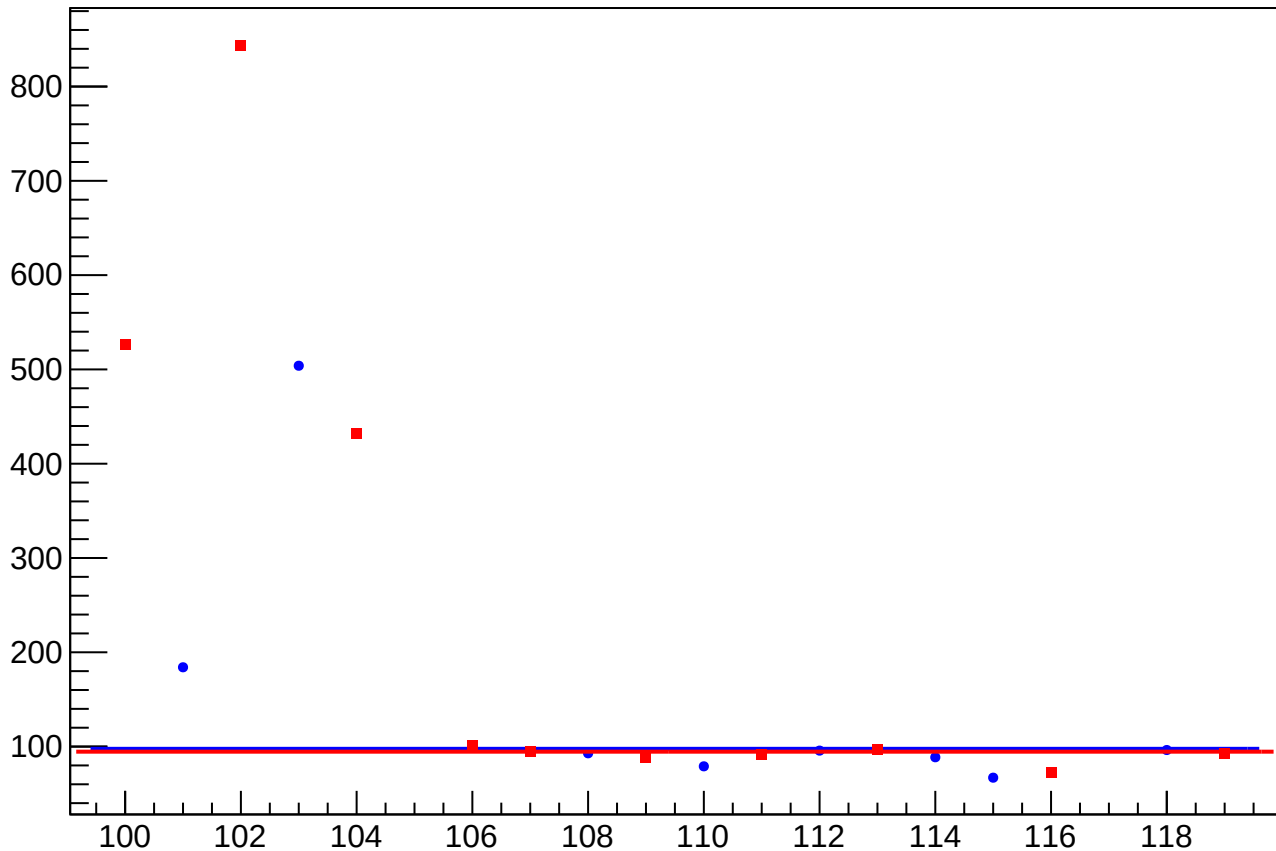
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.044 \pm 0.041$   $\chi^2/\text{NDF}$ : 13.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 97.615+/-0.043  $\chi^2/\text{NDF}$ : 1122655.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.591+/-0.040  $\chi^2/\text{NDF}$ : 1492348.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

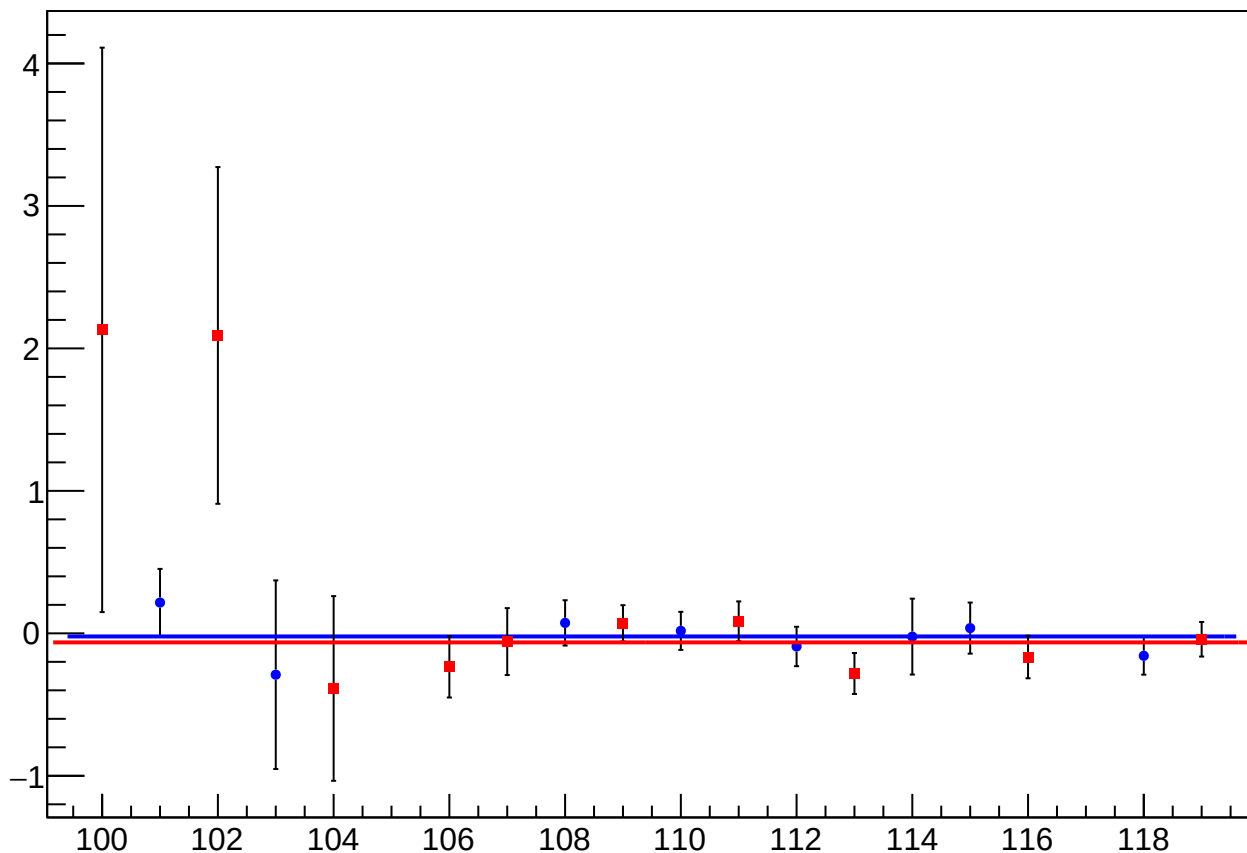
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.981+/-0.029  $\chi^2/\text{NDF}$ : 2617672.6/17

- 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: -0.022 $\pm$ 0.061  $\chi^2$ /NDF: 3.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.064 $\pm$ 0.056  $\chi^2$ /NDF: 10.5/9

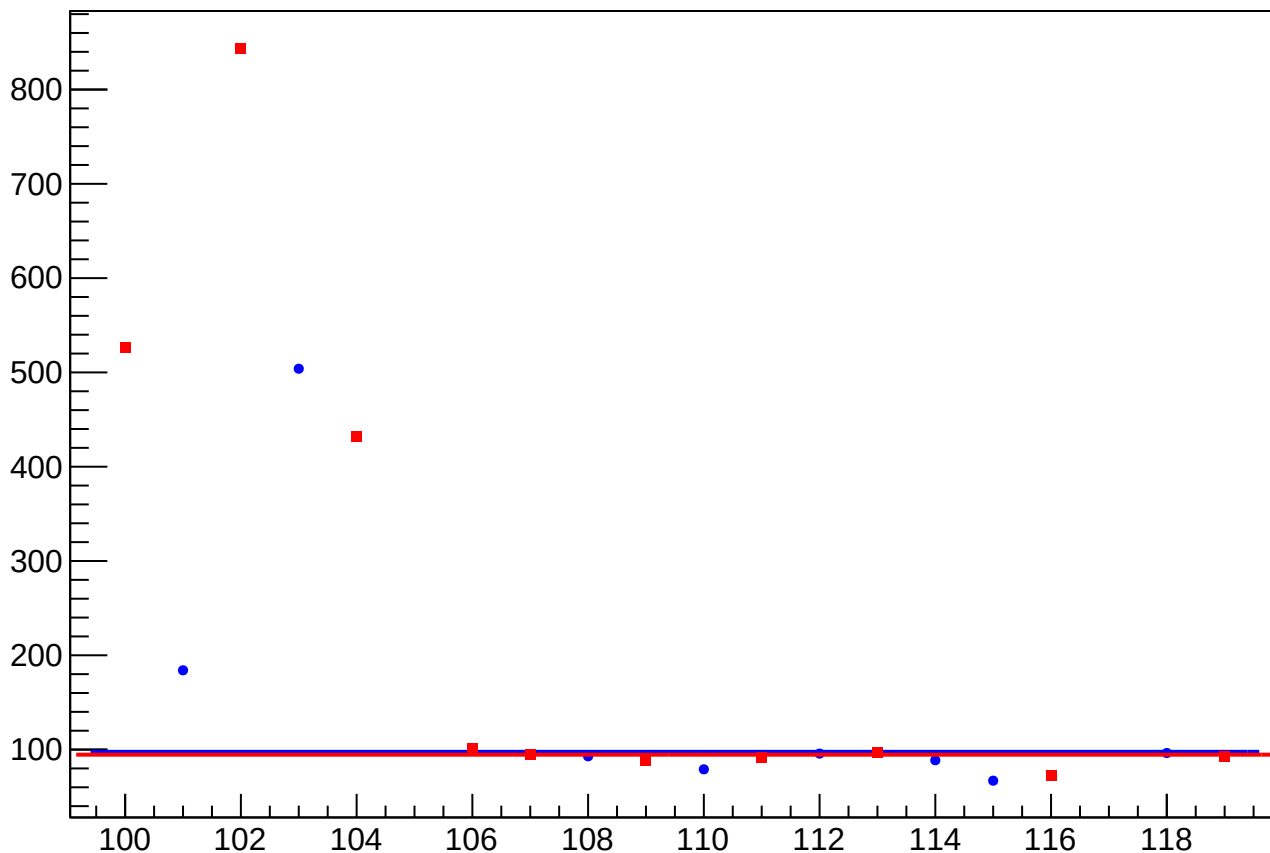
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.044 $\pm$ 0.041  $\chi^2$ /NDF: 13.8/17

- 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: 97.615 $\pm$ 0.043  $\chi^2$ /NDF: 1122655.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 94.591 $\pm$ 0.040  $\chi^2$ /NDF: 1492348.3/9

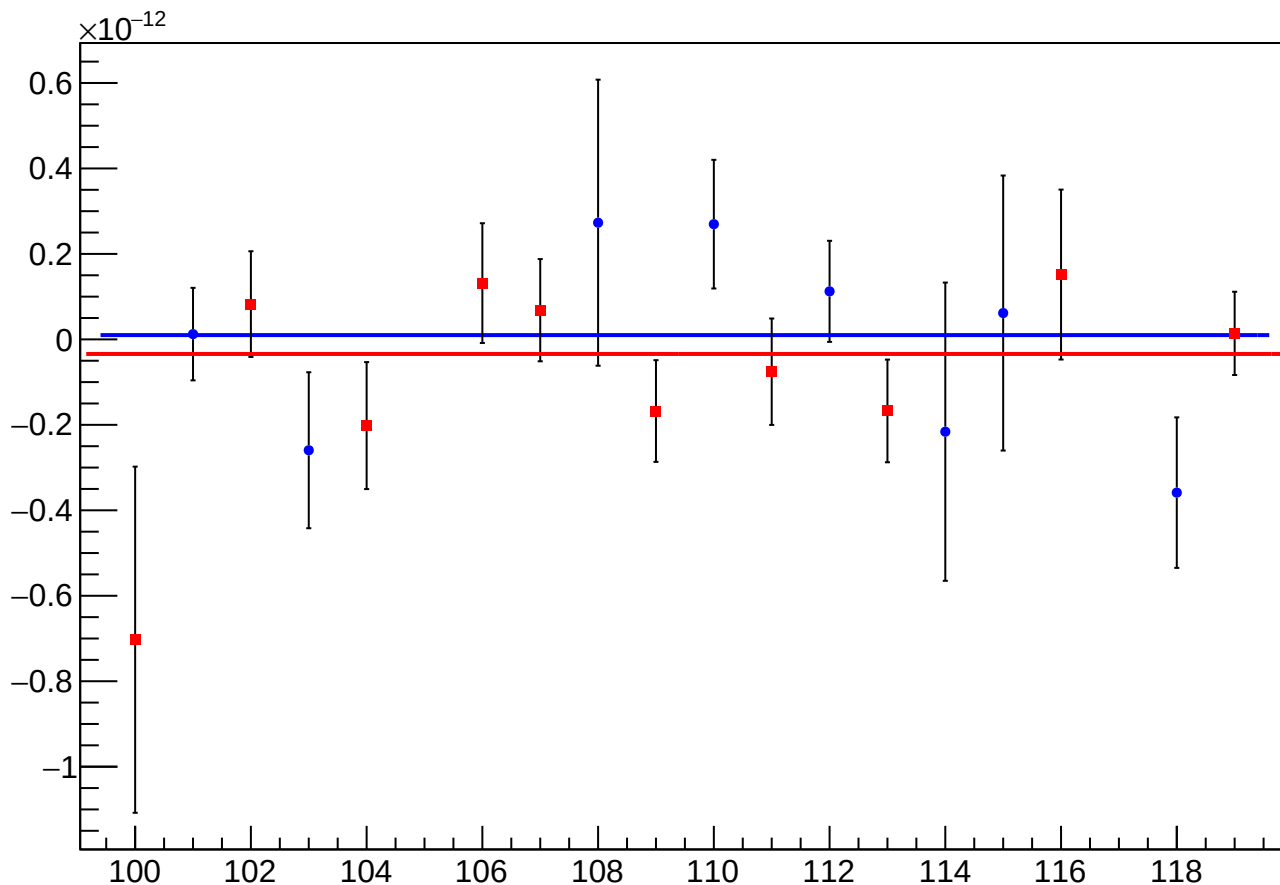
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 95.981 $\pm$ 0.029  $\chi^2$ /NDF: 2617672.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.7/9

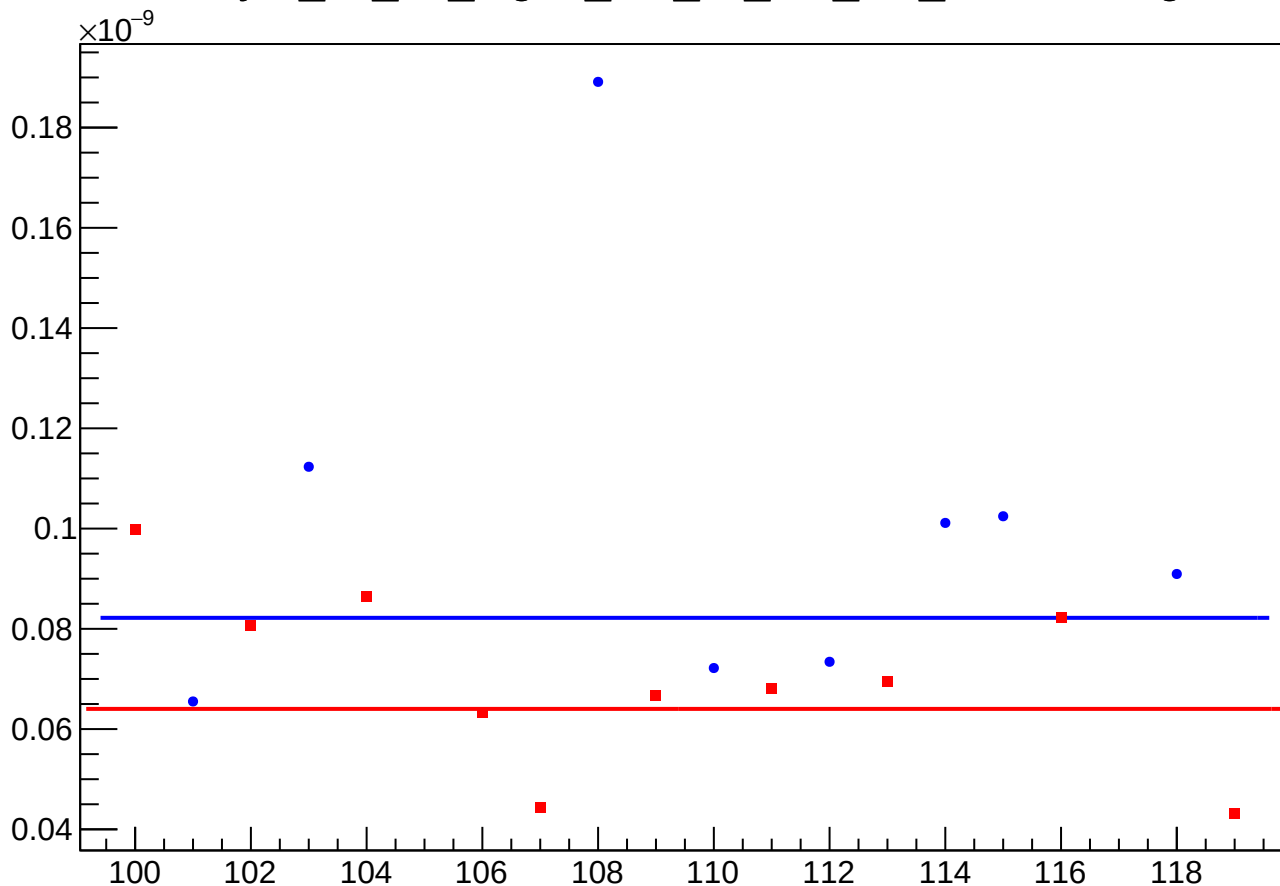
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 22.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 344768.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 267481.6/9

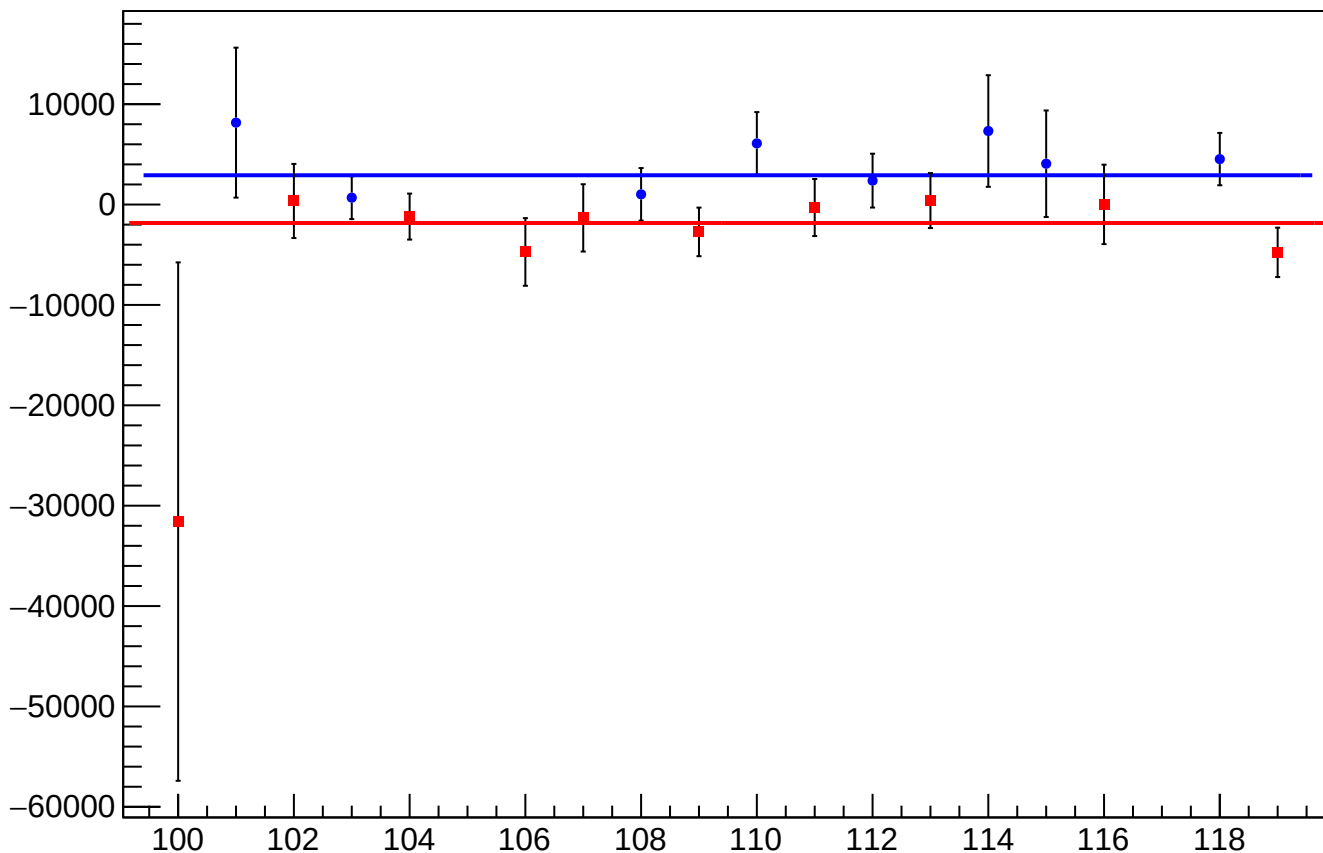
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 739334.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_avg\_mean vs Slug



Right In: 2916.605 $\pm$ 1091.127  $\chi^2$ /NDF: 4.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1837.005 $\pm$ 953.850  $\chi^2$ /NDF: 5.2/9

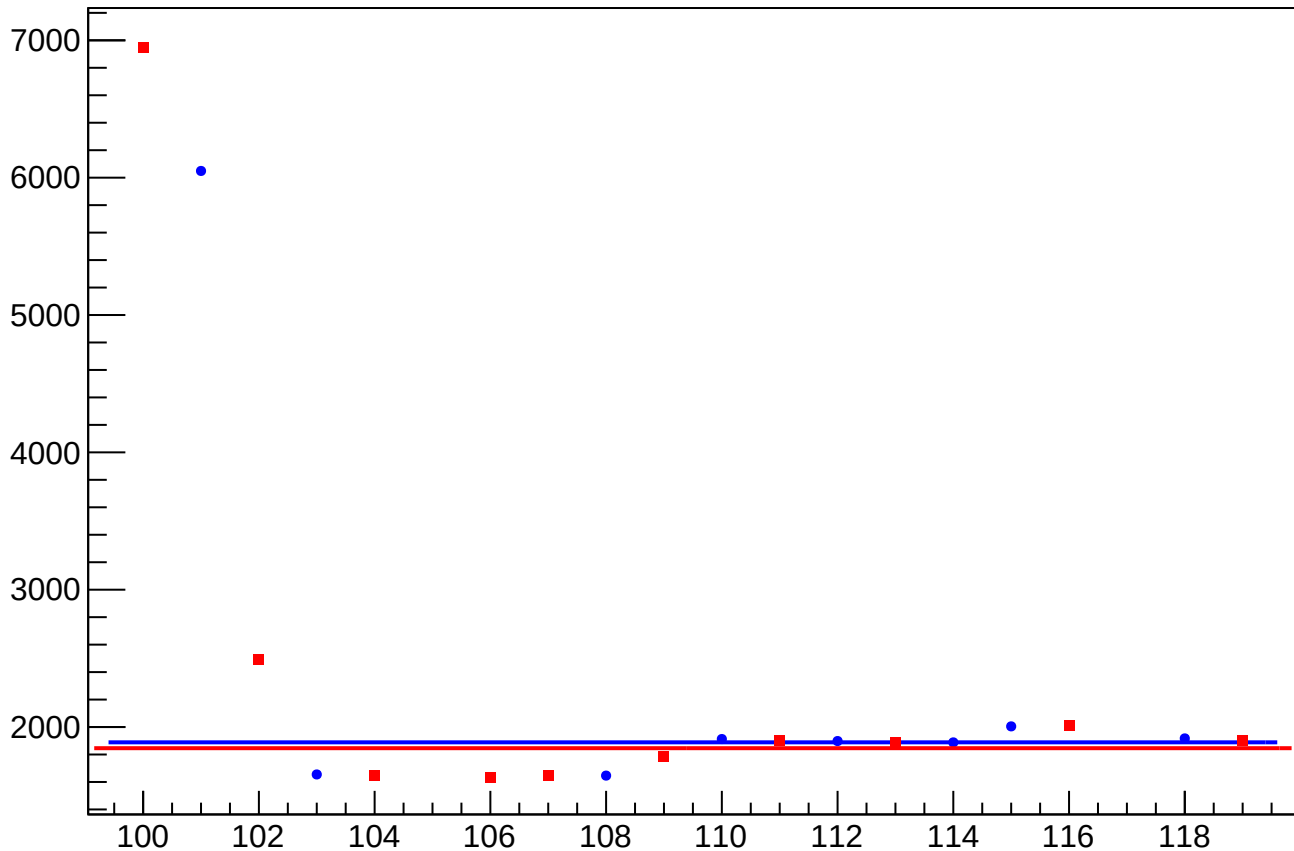
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 222.128 $\pm$ 718.134  $\chi^2$ /NDF: 20.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_avg\_rms vs Slug



Right In: 1888.675+/-0.772  $\chi^2/\text{NDF}$ : 663030.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1845.968+/-0.670  $\chi^2/\text{NDF}$ : 176880.8/9

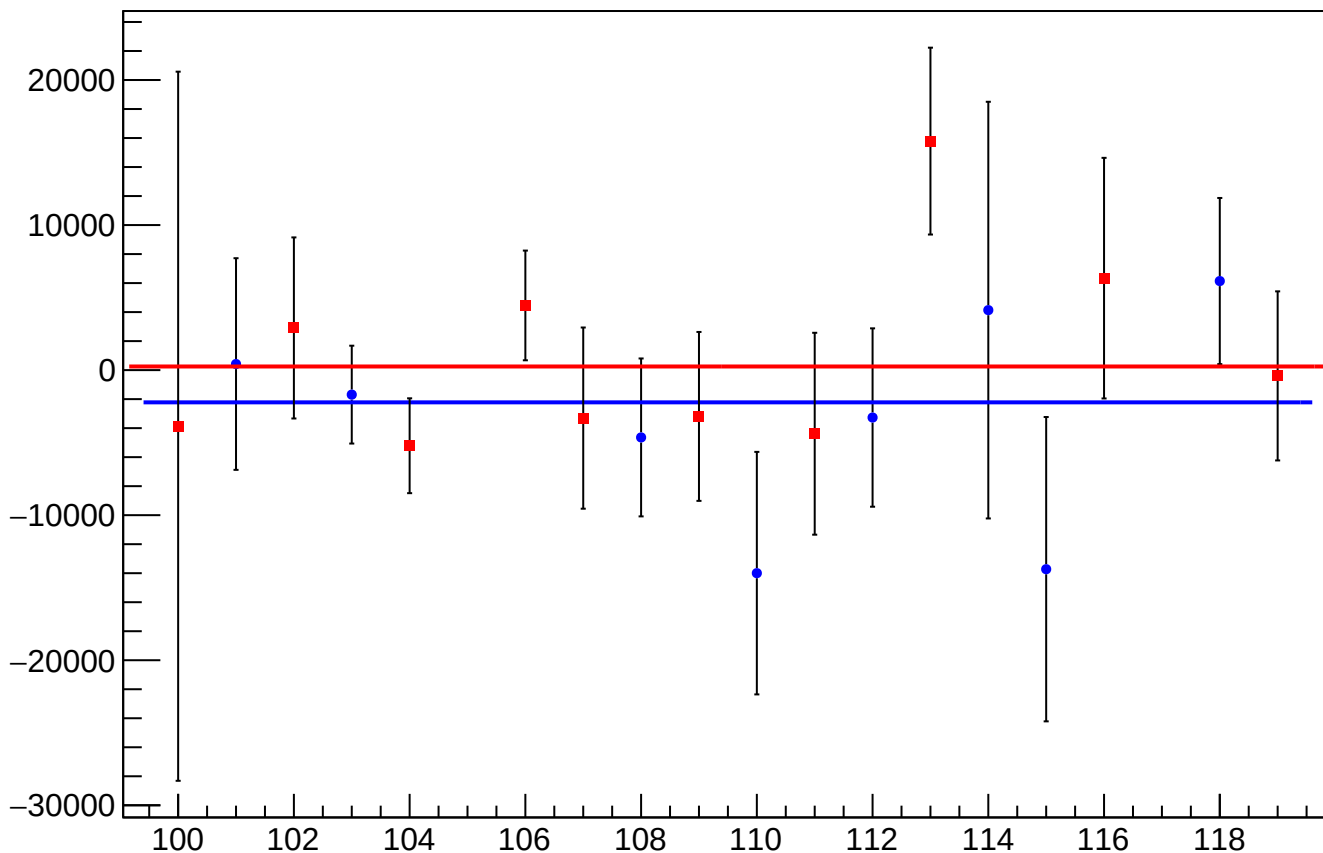
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1864.337+/-0.506  $\chi^2/\text{NDF}$ : 841657.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_reg\_correction\_mean vs Slug



Right In: -2222.255+/-2105.239  $\chi^2/\text{NDF}$ : 5.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 250.349+/-1728.552  $\chi^2/\text{NDF}$ : 11.7/9

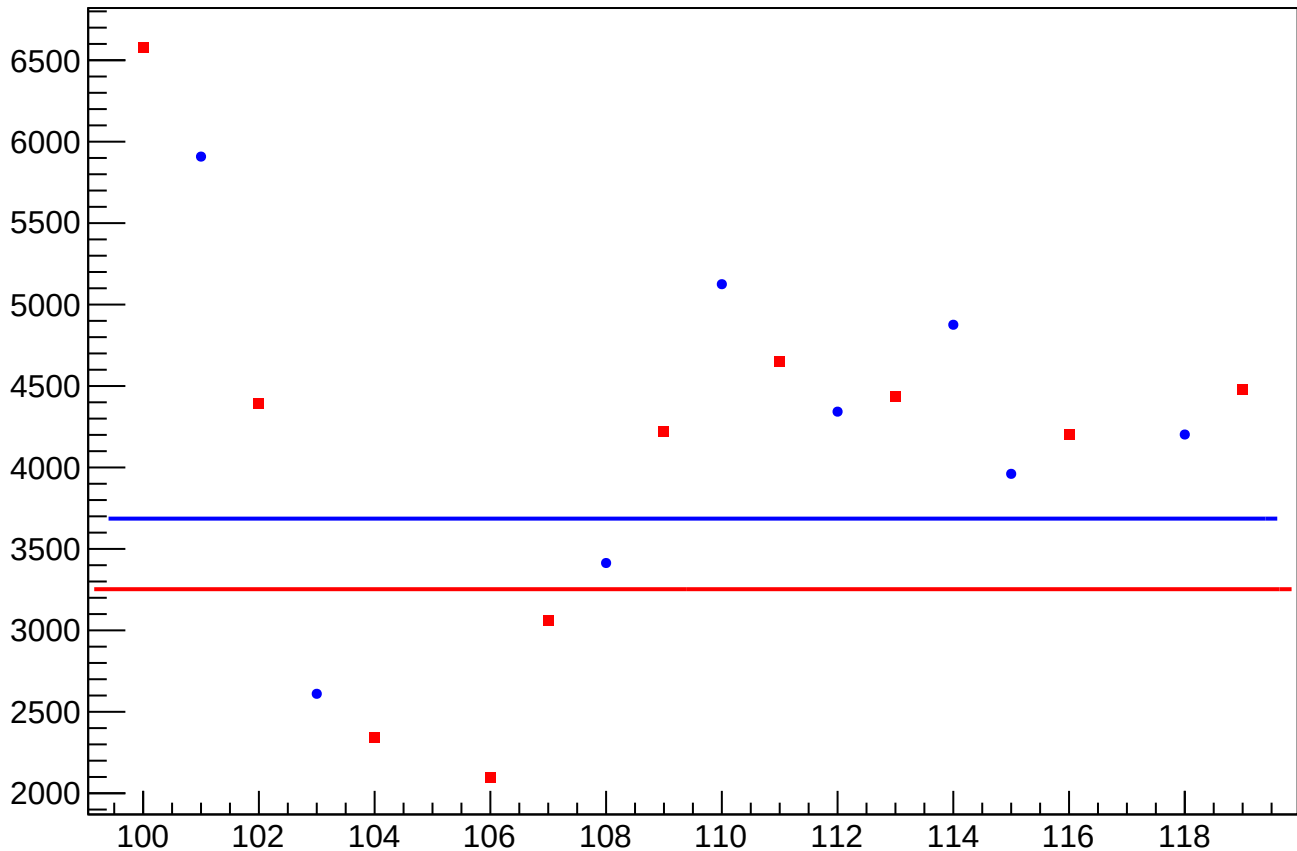
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -745.332+/-1335.931  $\chi^2/\text{NDF}$ : 18.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_reg\_correction\_rms vs Slug



Right In: 3686.017+/-1.489  $\chi^2/\text{NDF}$ : 507364.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3252.749+/-1.222  $\chi^2/\text{NDF}$ : 766365.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

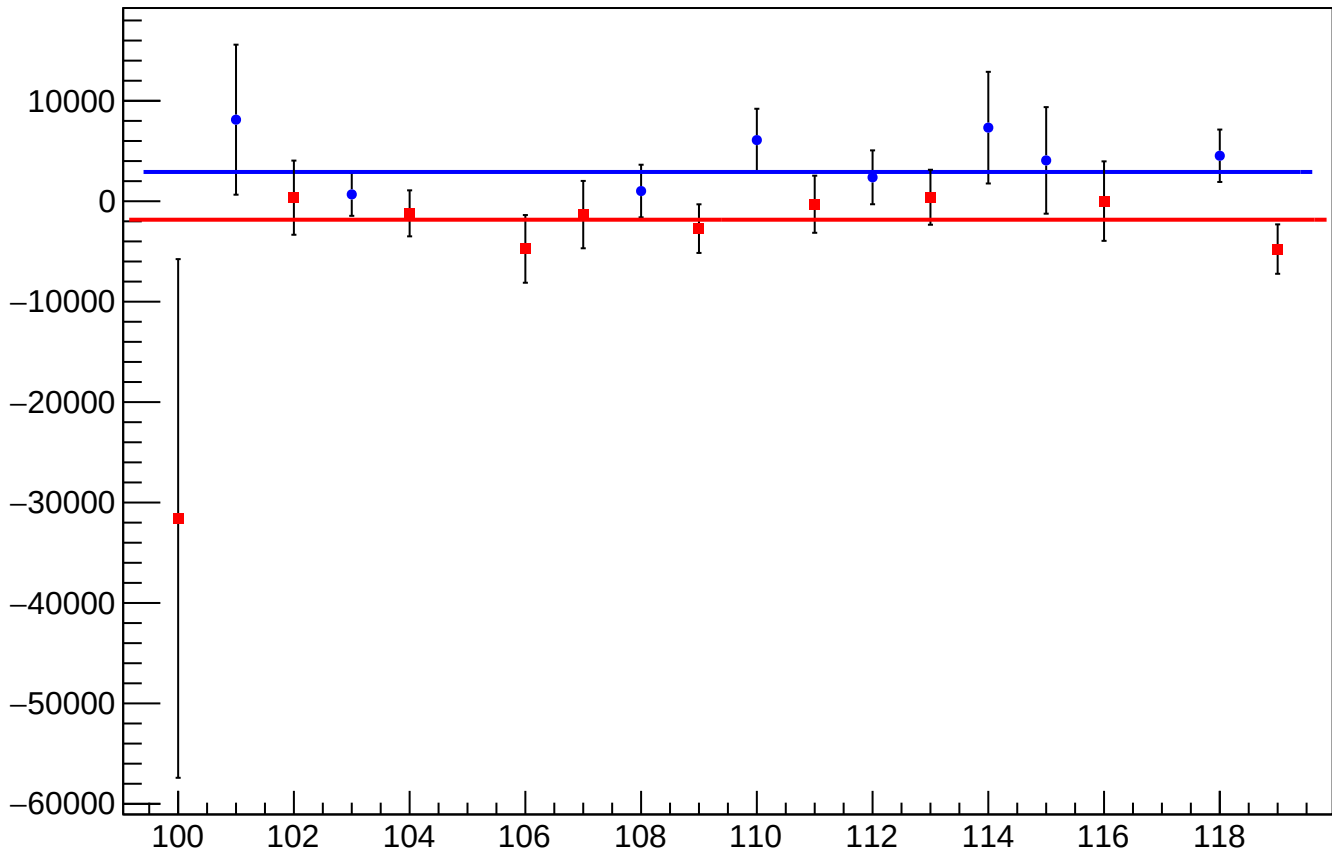
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3427.219+/-0.945  $\chi^2/\text{NDF}$ : 1324328.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atr\_avg\_mean vs Slug



Right In: 2915.174 $\pm$ 1091.128  $\chi^2$ /NDF: 4.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1839.176 $\pm$ 953.860  $\chi^2$ /NDF: 5.2/9

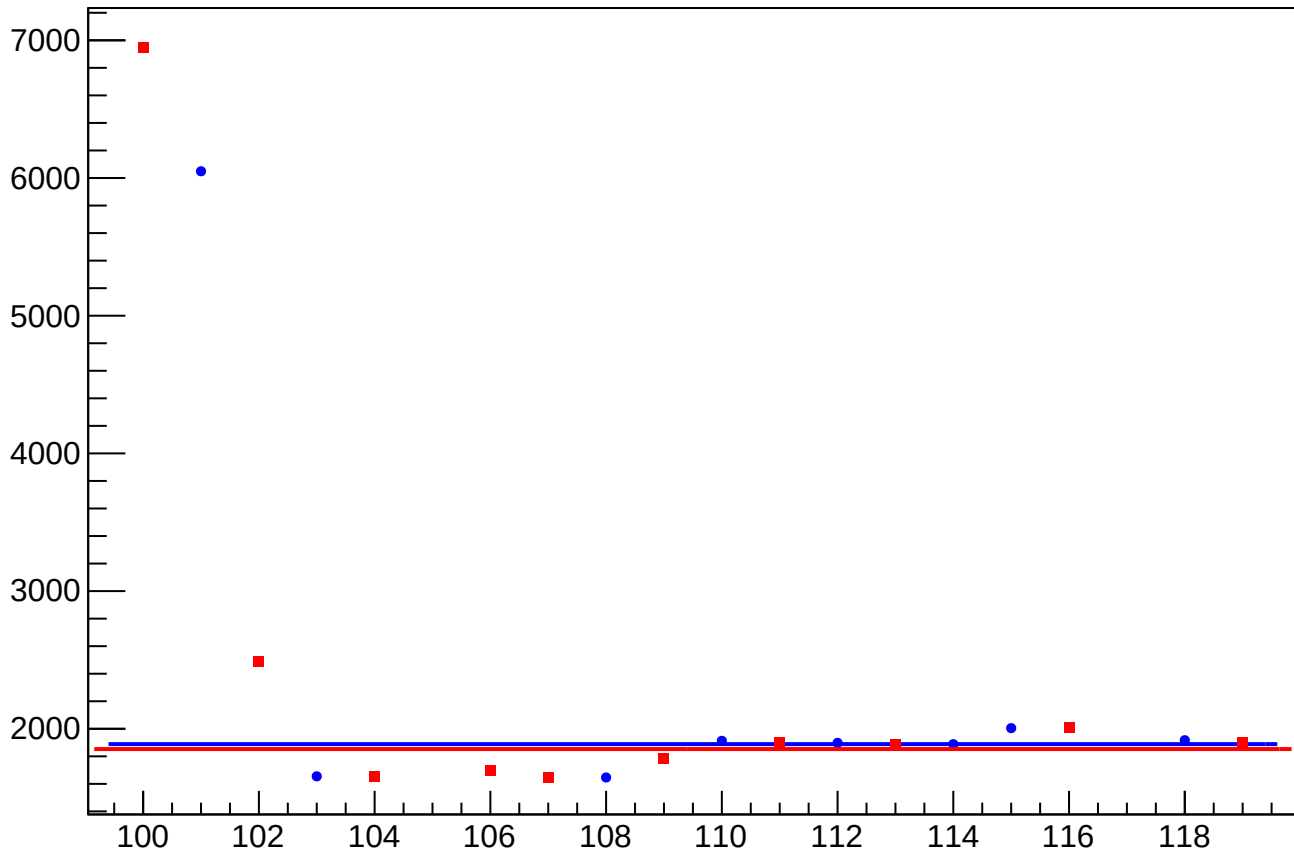
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 220.300 $\pm$ 718.139  $\chi^2$ /NDF: 20.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atr\_avg\_rms vs Slug



Right In: 1888.676+/-0.772  $\chi^2/\text{NDF}$ : 663029.7/7

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

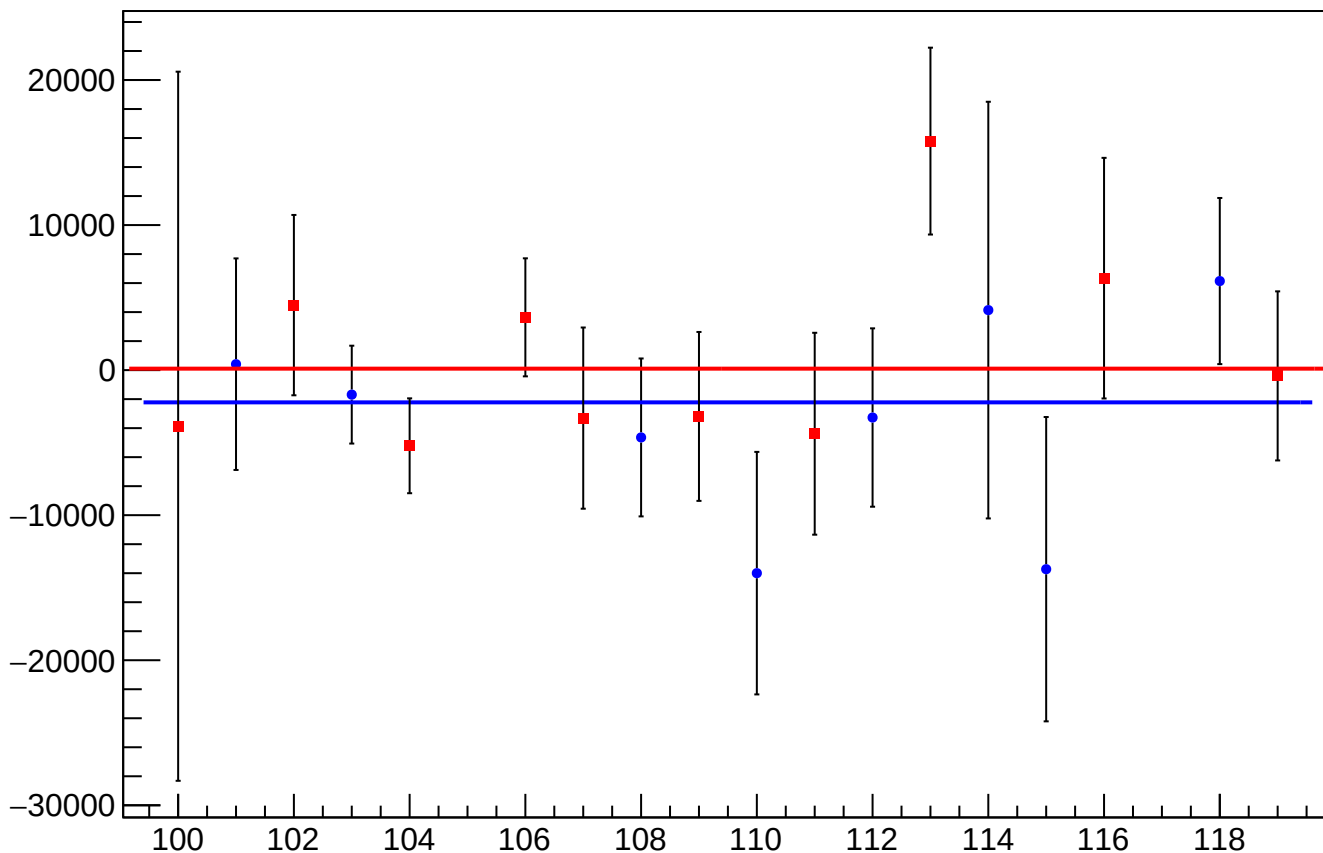
Right Out: 1852.819+/-0.673  $\chi^2/\text{NDF}$ : 171753.7/9

All: 1868.301+/-0.507  $\chi^2/\text{NDF}$ : 836010.7/17

- 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\_atr\_avg\_cor\_correction\_mean vs Slug



Right In: -2222.880+/-2105.246  $\chi^2/\text{NDF}$ : 5.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 101.246+/-1753.170  $\chi^2/\text{NDF}$ : 11.5/9

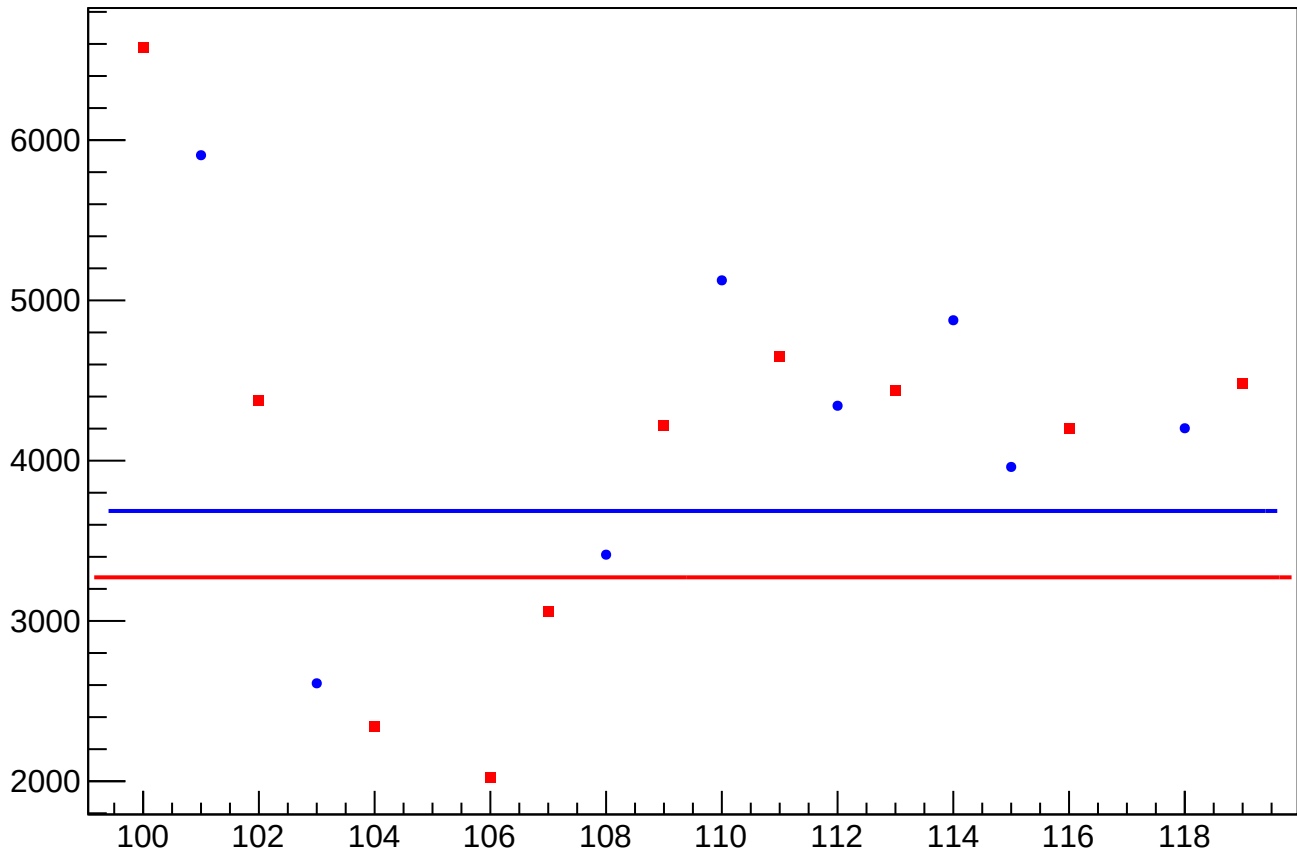
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -850.494+/-1347.200  $\chi^2/\text{NDF}$ : 18.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_cor\_correction\_rms vs Slug



Right In: 3686.179+/-1.489  $\chi^2/\text{NDF}$ : 506924.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3272.108+/-1.240  $\chi^2/\text{NDF}$ : 759756.7/9

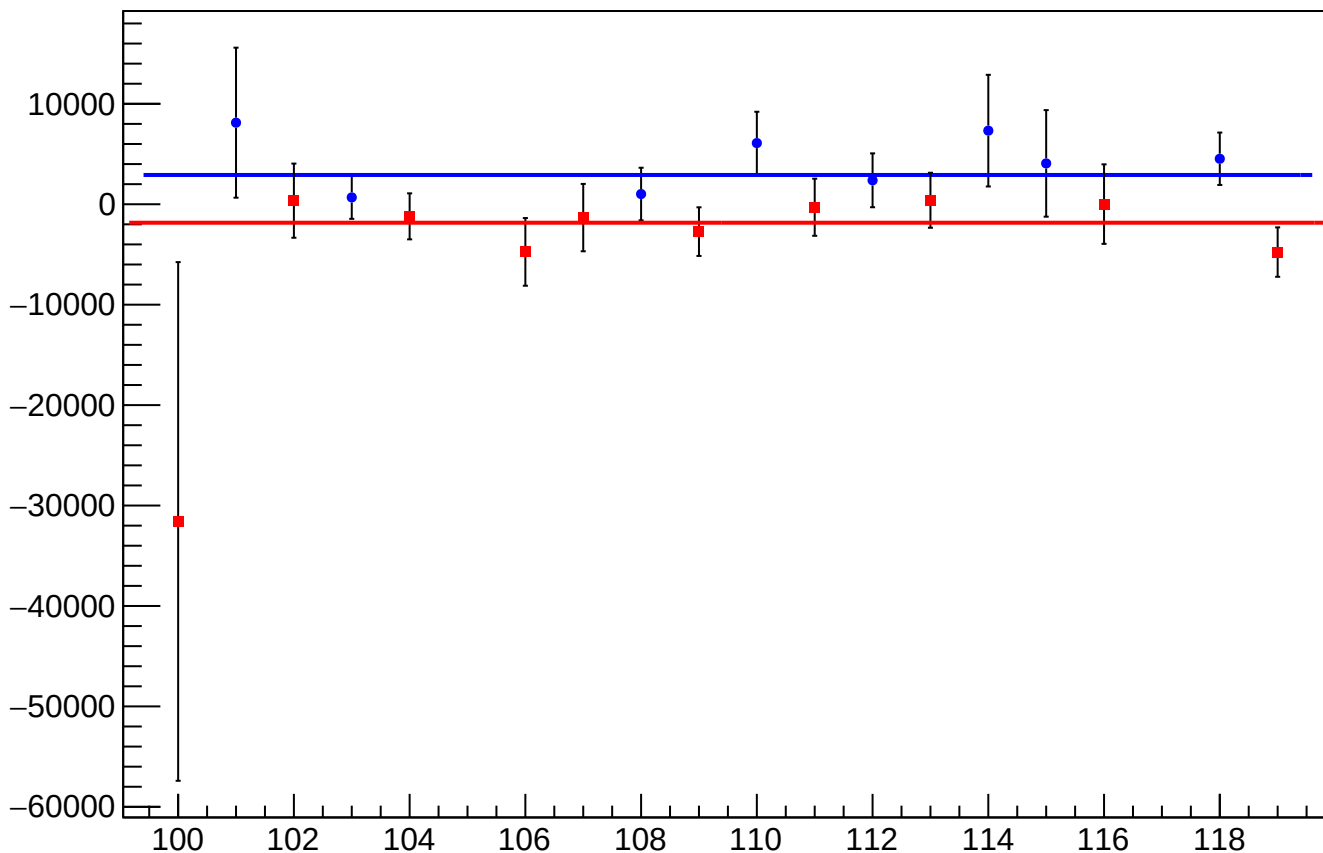
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3441.672+/-0.953  $\chi^2/\text{NDF}$ : 1312367.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr\_avg\_mean vs Slug



Right In: 2915.174 $\pm$ 1091.128  $\chi^2$ /NDF: 4.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1839.176 $\pm$ 953.860  $\chi^2$ /NDF: 5.2/9

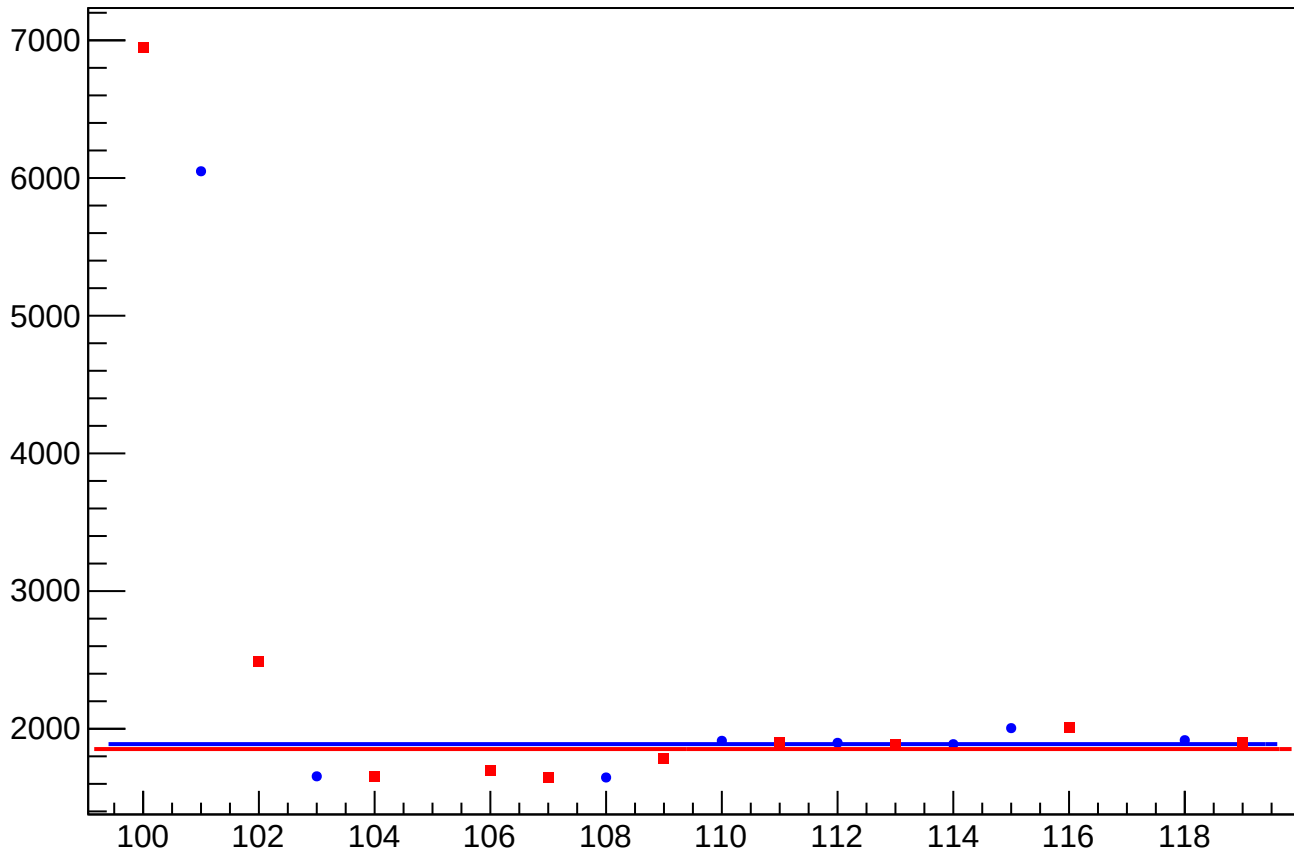
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 220.300 $\pm$ 718.139  $\chi^2$ /NDF: 20.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atr\_avg\_rms vs Slug



Right In: 1888.676+/-0.772  $\chi^2/\text{NDF}$ : 663029.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1852.819+/-0.673  $\chi^2/\text{NDF}$ : 171753.7/9

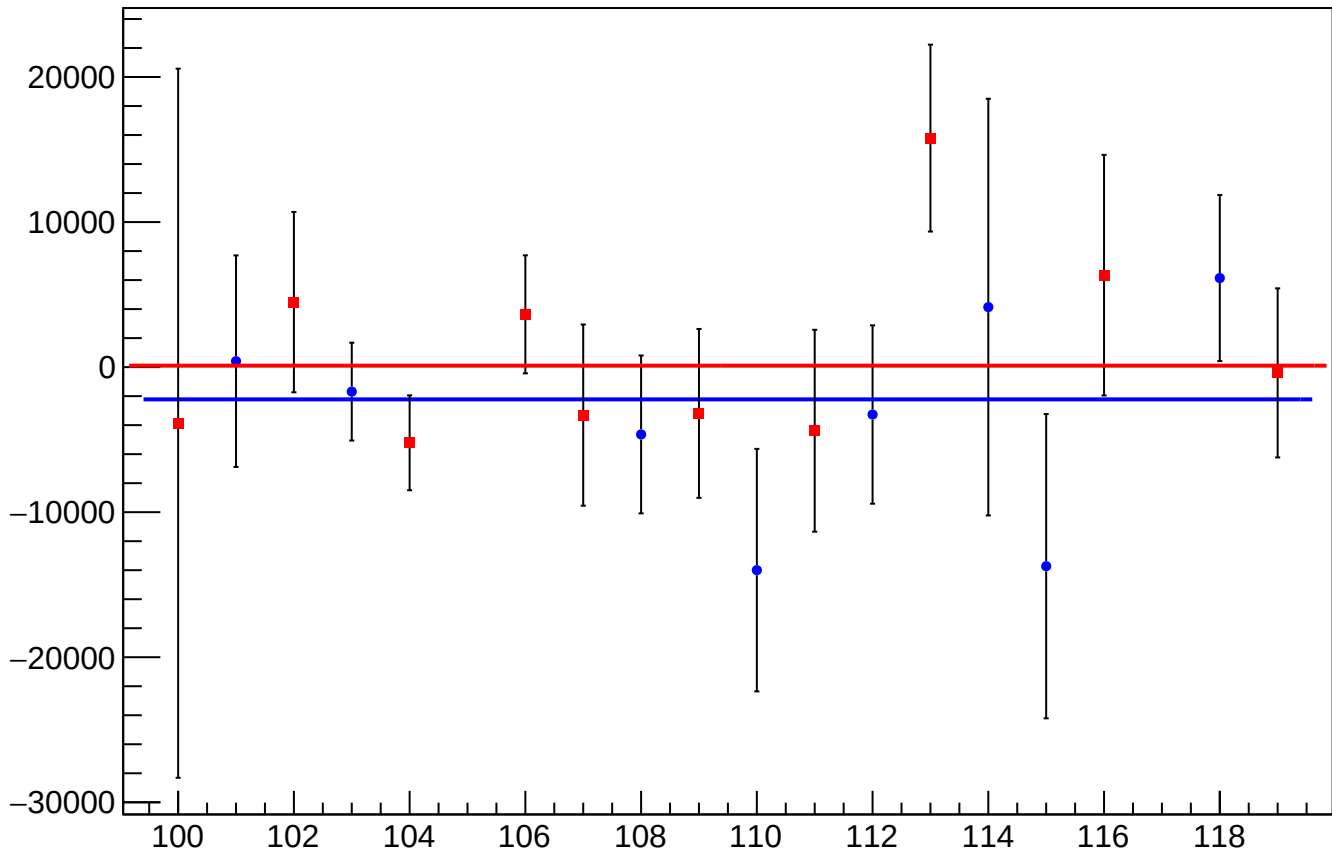
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1868.301+/-0.507  $\chi^2/\text{NDF}$ : 836010.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -2222.880+/-2105.246  $\chi^2/\text{NDF}$ : 5.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 101.246+/-1753.170  $\chi^2/\text{NDF}$ : 11.5/9

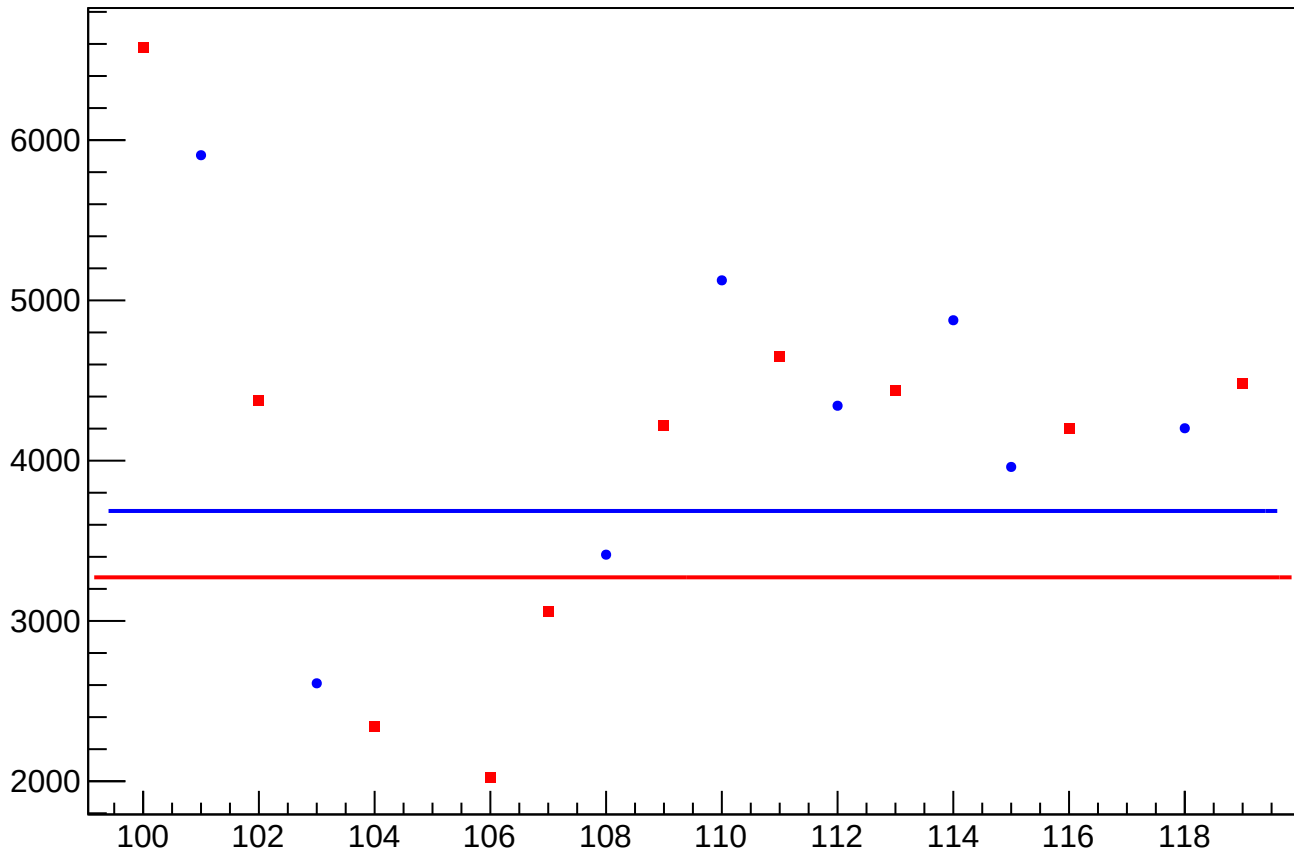
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -850.494+/-1347.200  $\chi^2/\text{NDF}$ : 18.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 3686.179+/-1.489  $\chi^2/\text{NDF}$ : 506924.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3272.108+/-1.240  $\chi^2/\text{NDF}$ : 759756.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

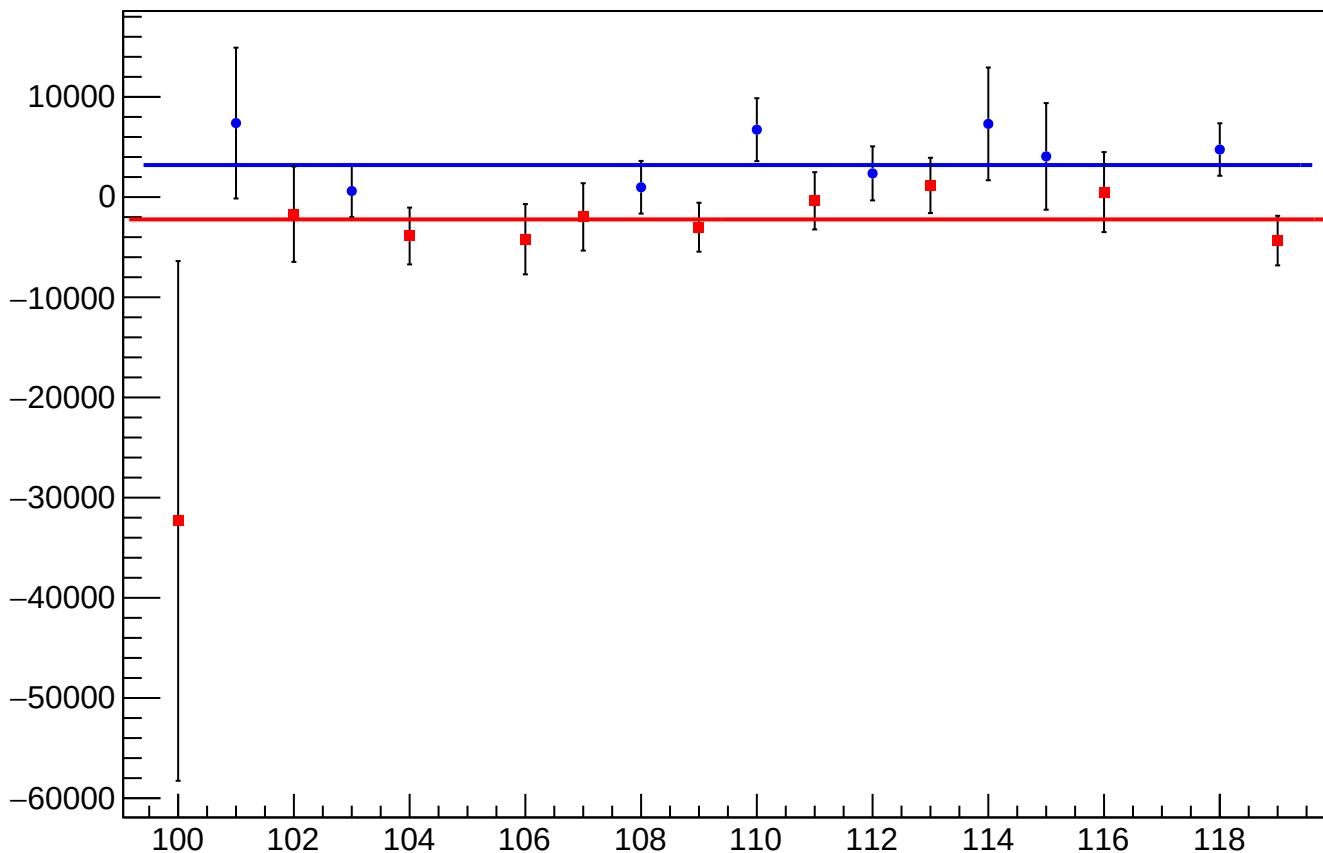
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3441.672+/-0.953  $\chi^2/\text{NDF}$ : 1312367.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_atr\_avg\_mean vs Slug



Right In: 3199.076 $\pm$ 1146.462  $\chi^2$ /NDF: 4.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2226.715 $\pm$ 1006.574  $\chi^2$ /NDF: 5.3/9

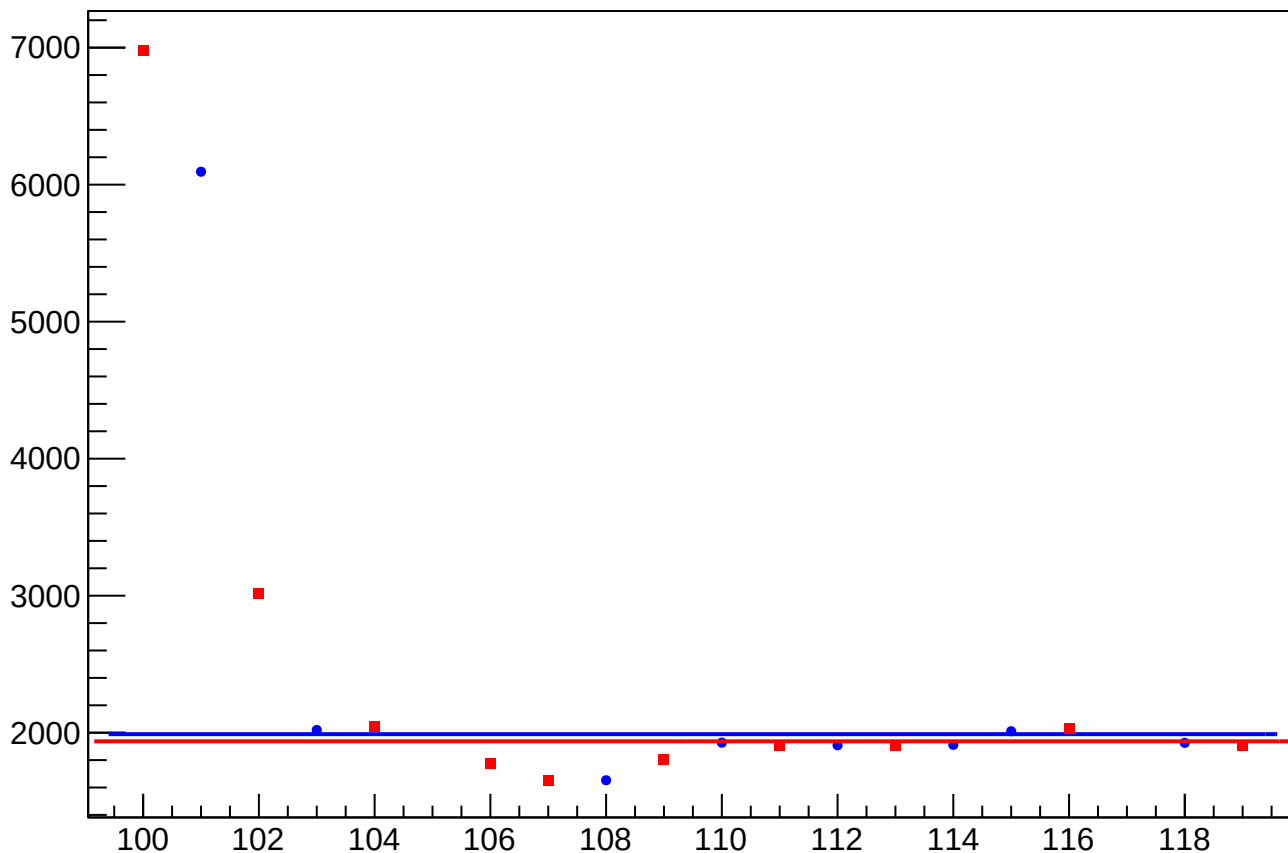
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 135.136 $\pm$ 756.405  $\chi^2$ /NDF: 22.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atr\_avg\_rms vs Slug



Right In: 1989.290+/-0.811  $\chi^2/\text{NDF}$ : 631914.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1937.174+/-0.711  $\chi^2/\text{NDF}$ : 208502.5/9

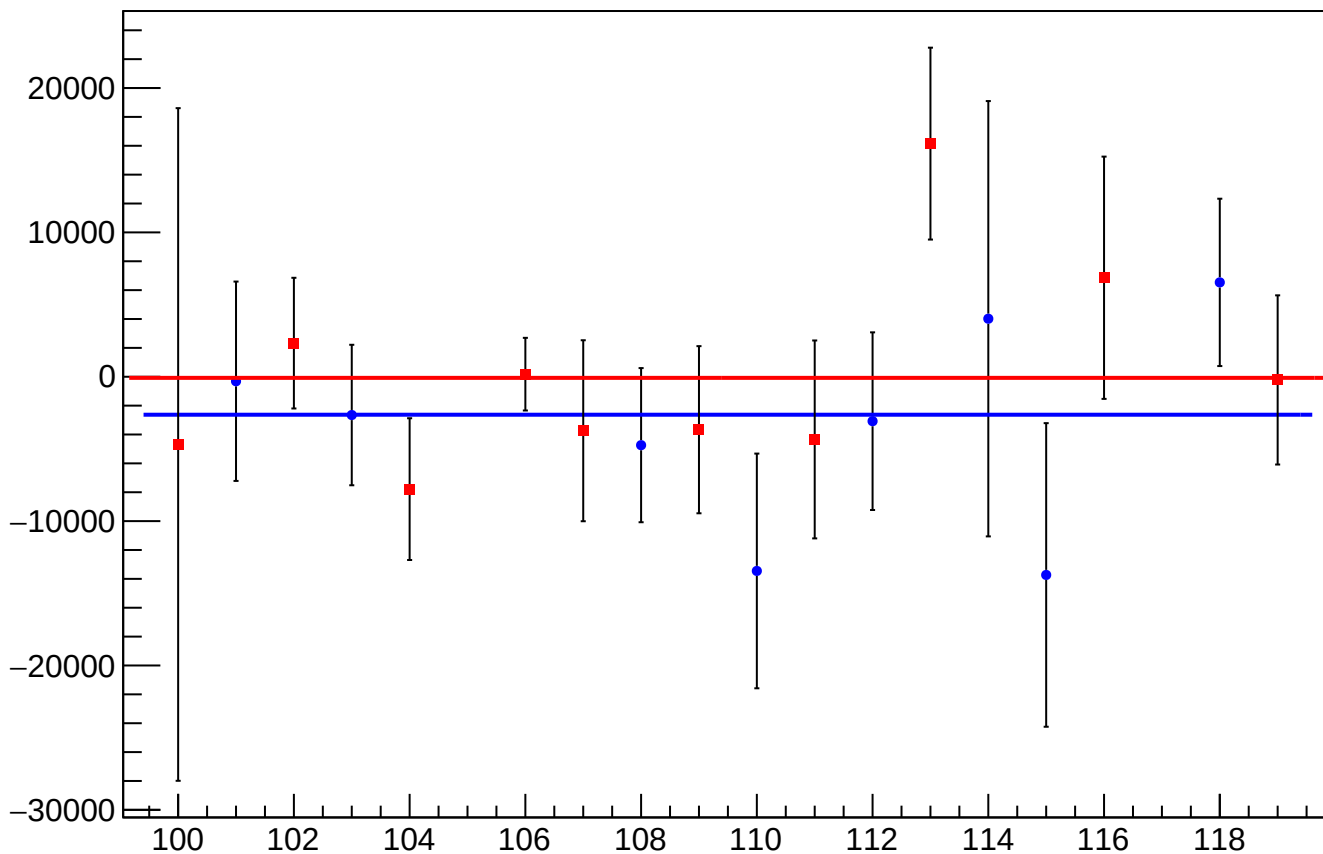
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1959.818+/-0.534  $\chi^2/\text{NDF}$ : 842754.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_dit\_correction\_mean vs Slug



Right In: -2630.057+/-2337.276  $\chi^2/\text{NDF}$ : 5.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -76.491+/-1595.925  $\chi^2/\text{NDF}$ : 10.6/9

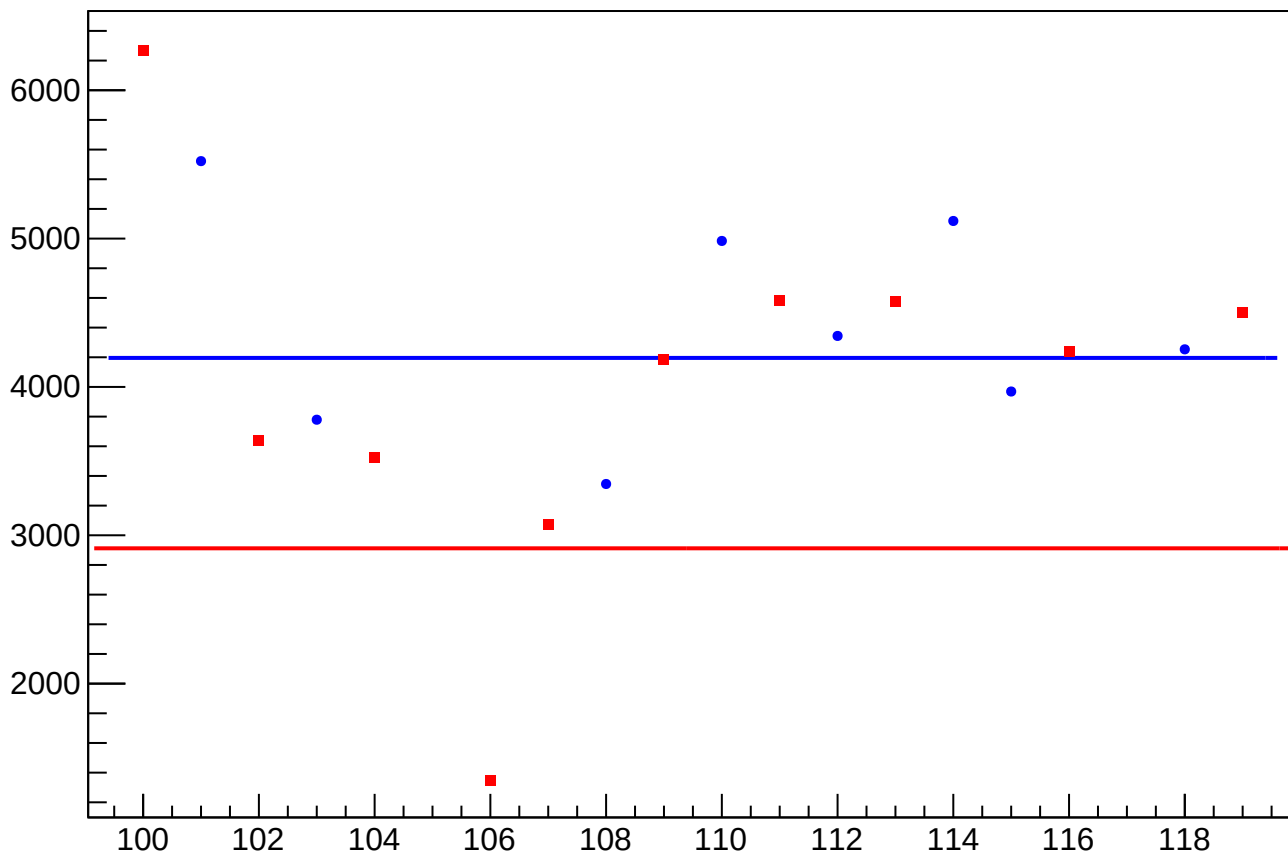
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -888.477+/-1317.986  $\chi^2/\text{NDF}$ : 17.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_dit\_correction\_rms vs Slug



Right In: 4195.659 $\pm$ 1.653  $\chi^2$ /NDF: 167754.2/7

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

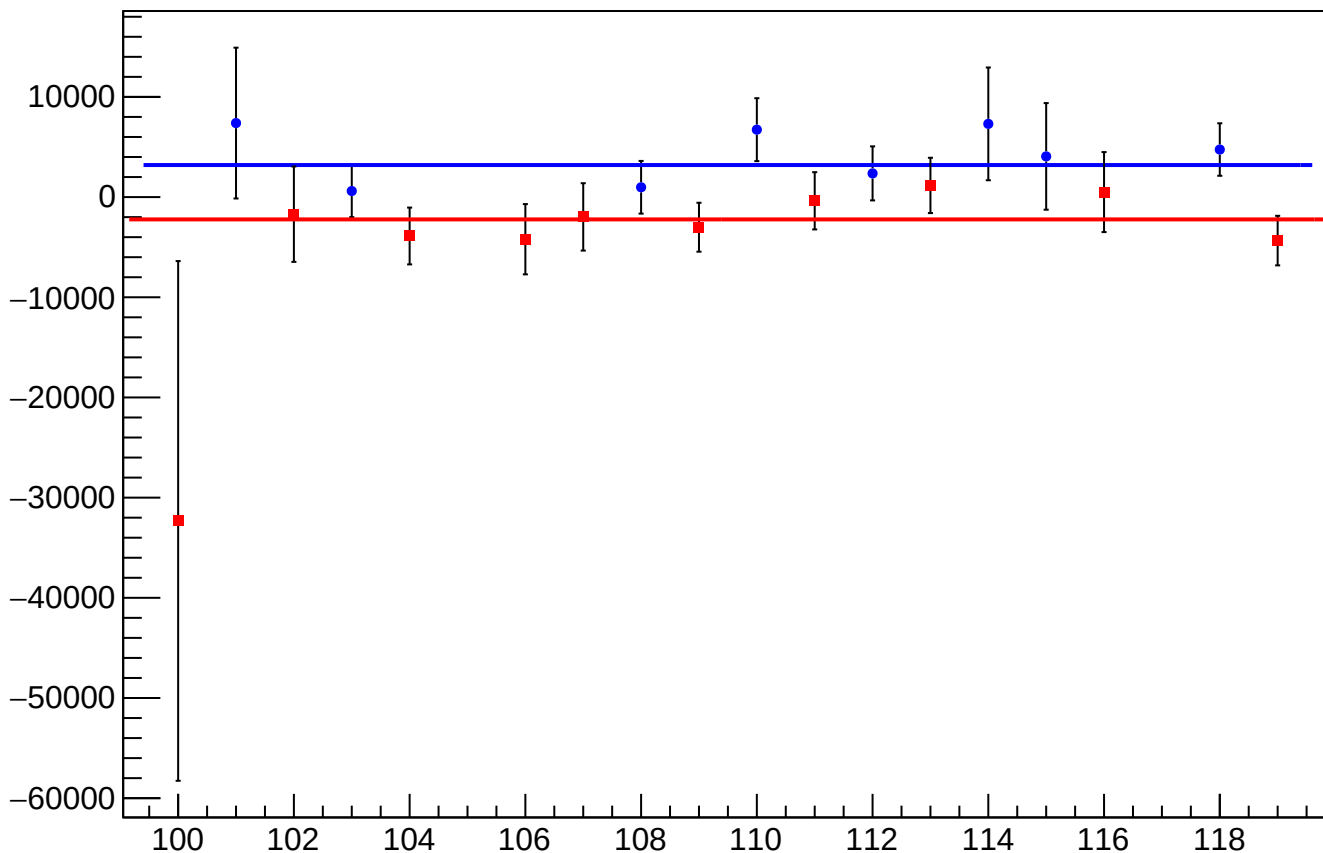
Right Out: 2912.130 $\pm$ 1.128  $\chi^2$ /NDF: 1436564.6/9

All: 3320.268 $\pm$ 0.932  $\chi^2$ /NDF: 2015674.4/17

- 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\_avg\_mean vs Slug



Right In: 3199.078+/-1146.462  $\chi^2$ /NDF: 4.3/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2226.719+/-1006.574  $\chi^2$ /NDF: 5.3/9

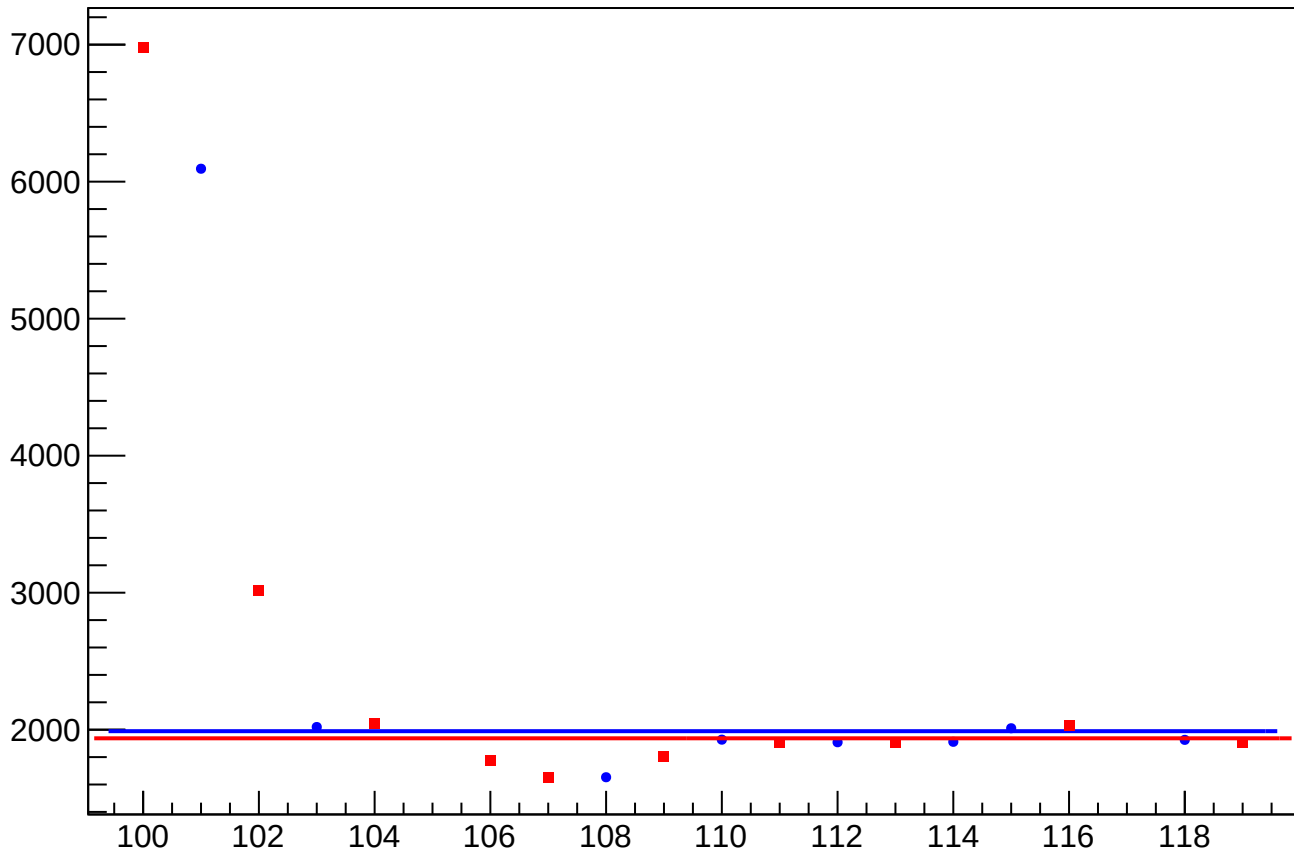
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 135.134+/-756.405  $\chi^2$ /NDF: 22.2/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atr\_avg\_rms vs Slug



Right In: 1989.289 $\pm$ 0.811  $\chi^2$ /NDF: 631914.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1937.173 $\pm$ 0.711  $\chi^2$ /NDF: 208502.0/9

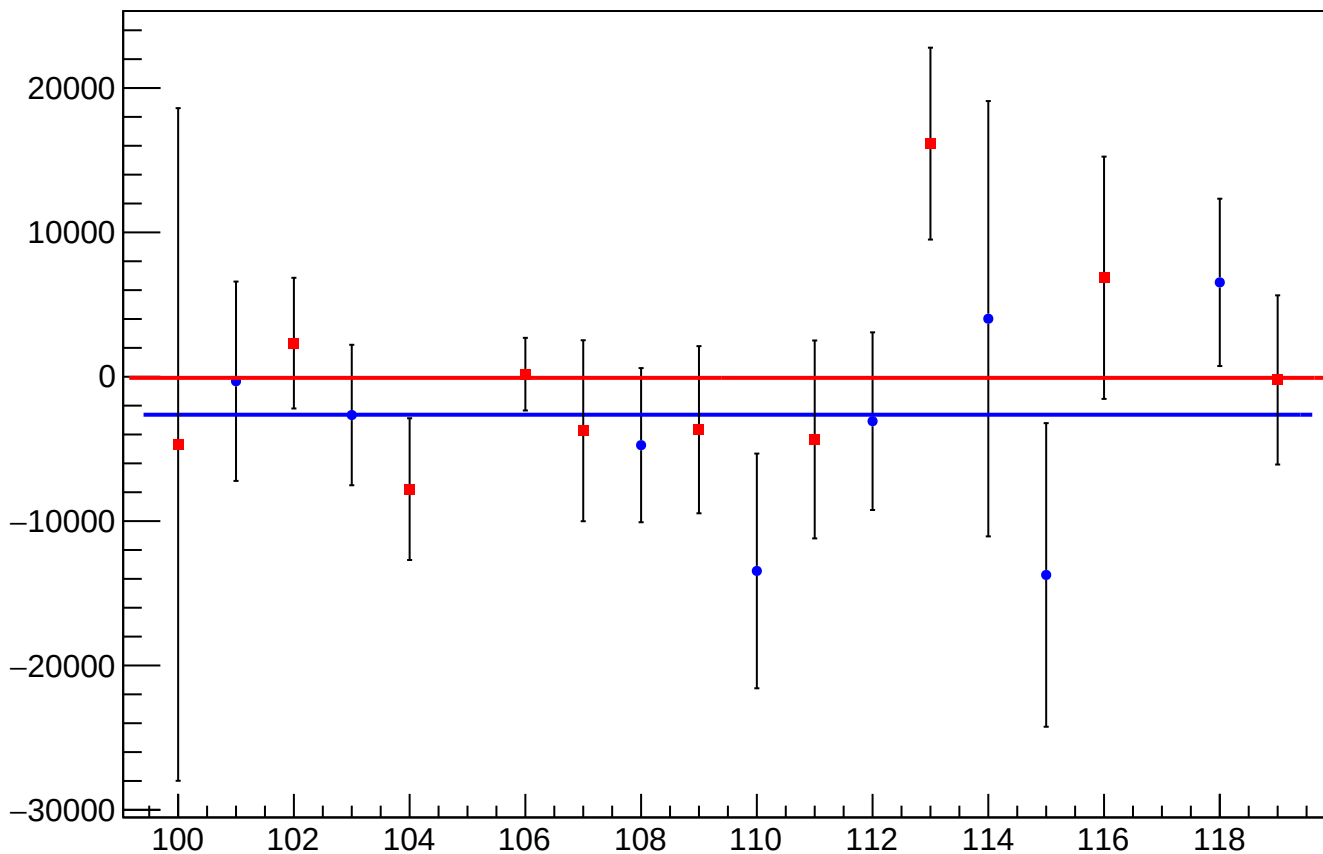
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1959.817 $\pm$ 0.534  $\chi^2$ /NDF: 842753.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -2630.051+/-2337.273  $\chi^2/\text{NDF}$ : 5.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -76.488+/-1595.922  $\chi^2/\text{NDF}$ : 10.6/9

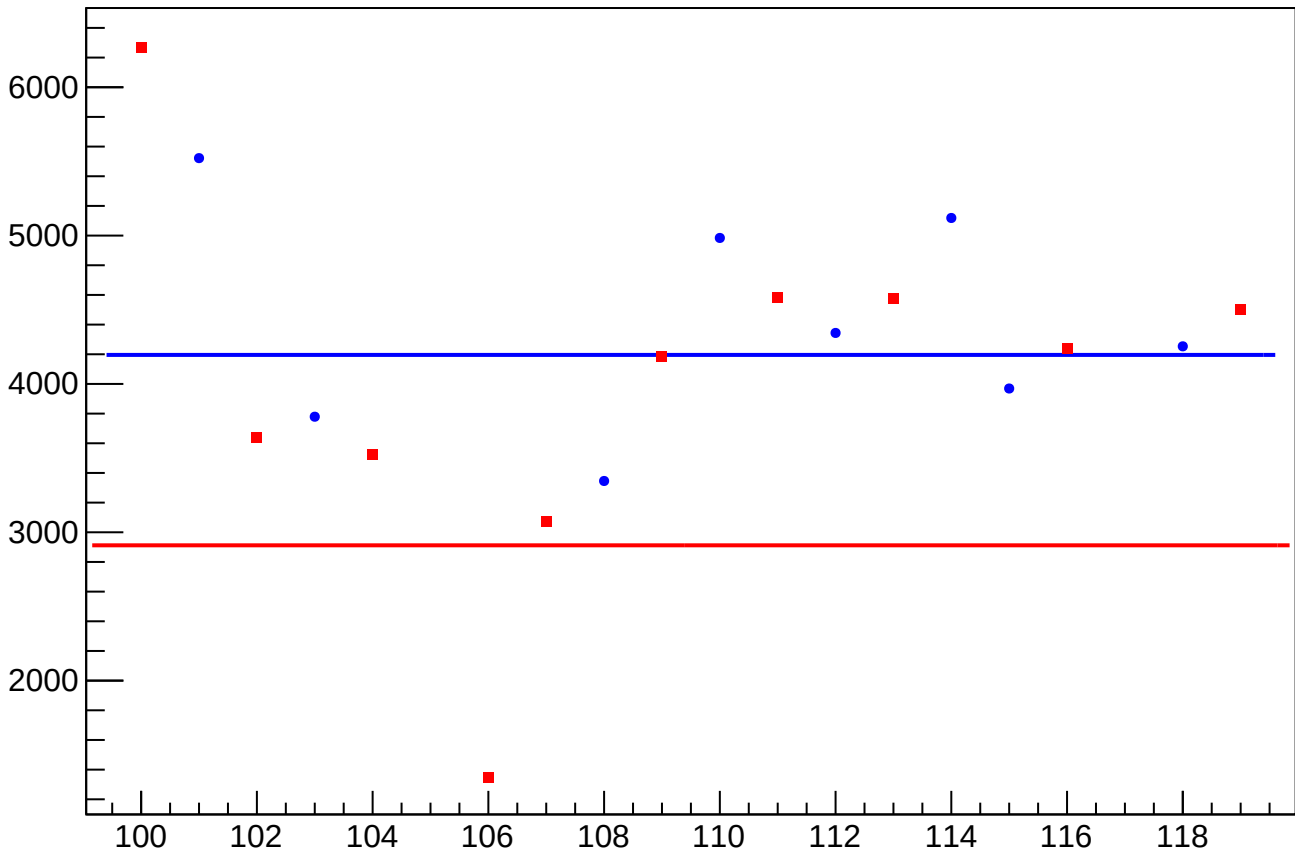
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -888.472+/-1317.983  $\chi^2/\text{NDF}$ : 17.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 4195.654+/-1.653  $\chi^2/\text{NDF}$ : 167752.2/7

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: 2912.123+/-1.128  $\chi^2/\text{NDF}$ : 1436568.0/9

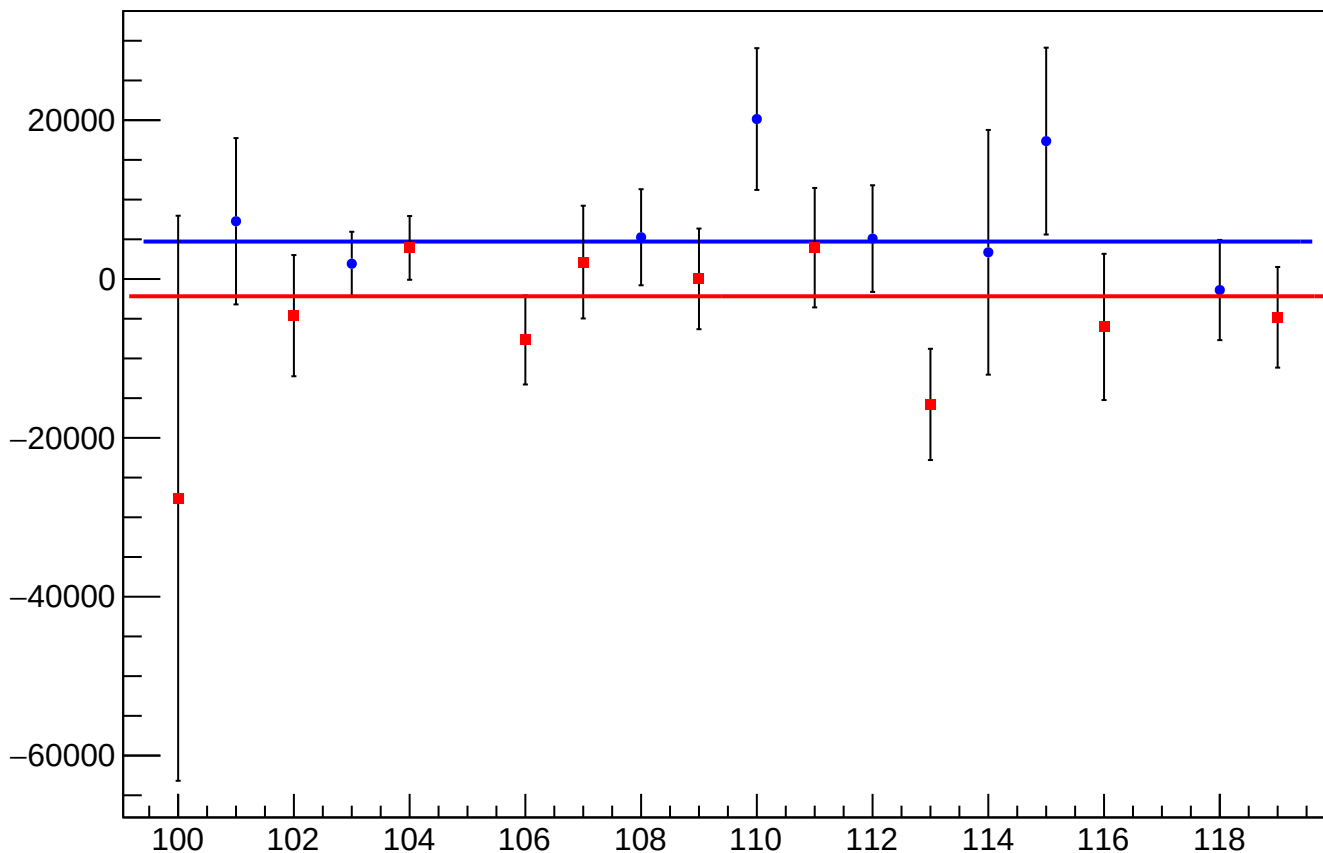
All: 3320.261+/-0.932  $\chi^2/\text{NDF}$ : 2015678.7/17

- 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\_atr\_avg\_mean vs Slug



Right In: 4717.292+/-2429.058  $\chi^2$ /NDF: 5.6/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2171.008+/-2078.629  $\chi^2$ /NDF: 9.2/9

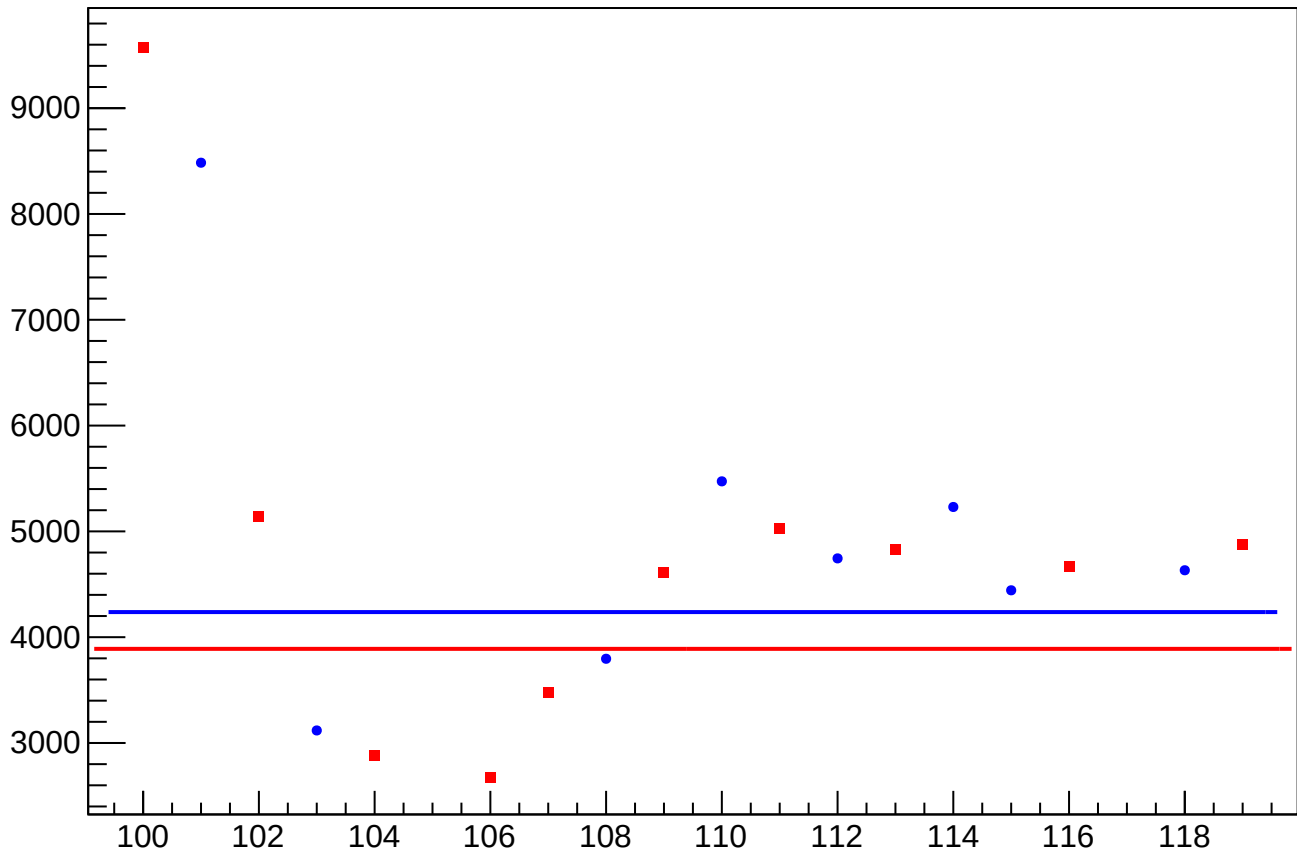
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 740.860+/-1579.311  $\chi^2$ /NDF: 19.4/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_avg\_rms vs Slug



Right In: 4237.327+/-1.718  $\chi^2/\text{NDF}$ : 560798.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3889.702+/-1.450  $\chi^2/\text{NDF}$ : 519812.1/9

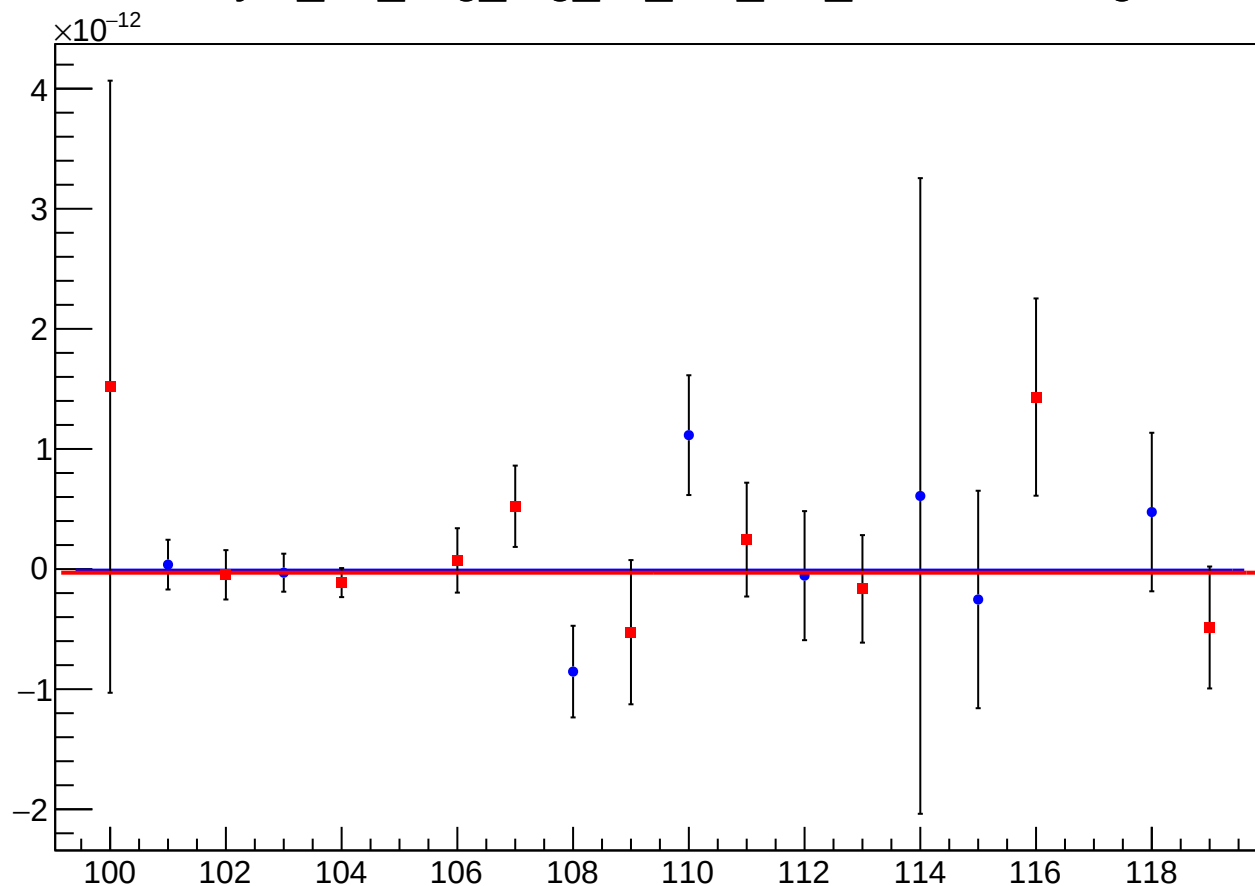
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4034.389+/-1.108  $\chi^2/\text{NDF}$ : 1104522.9/17

- 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  $\chi^2/\text{NDF}$ : 10.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.7/9

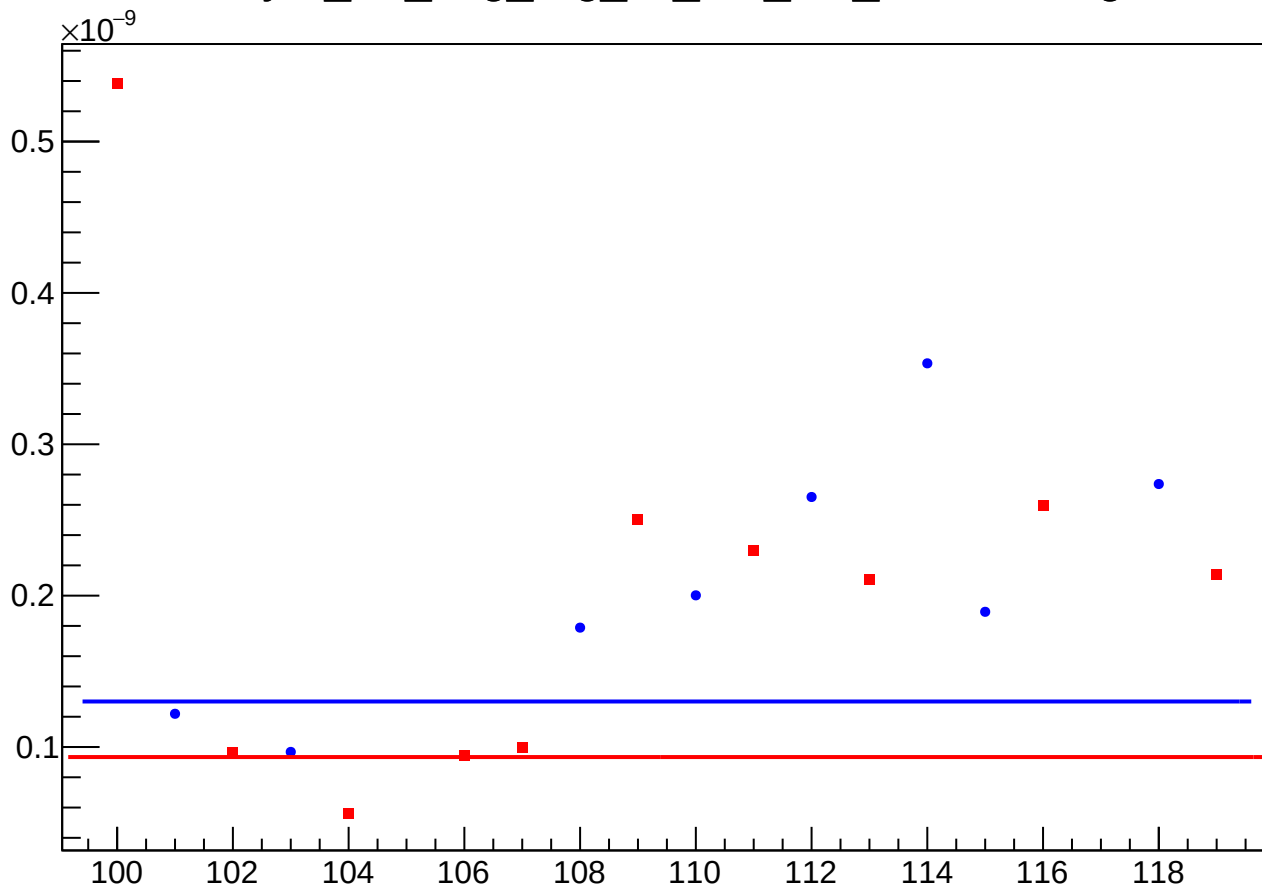
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.5/17

- 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  $\chi^2/\text{NDF}$ : 408031.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 887591.0/9

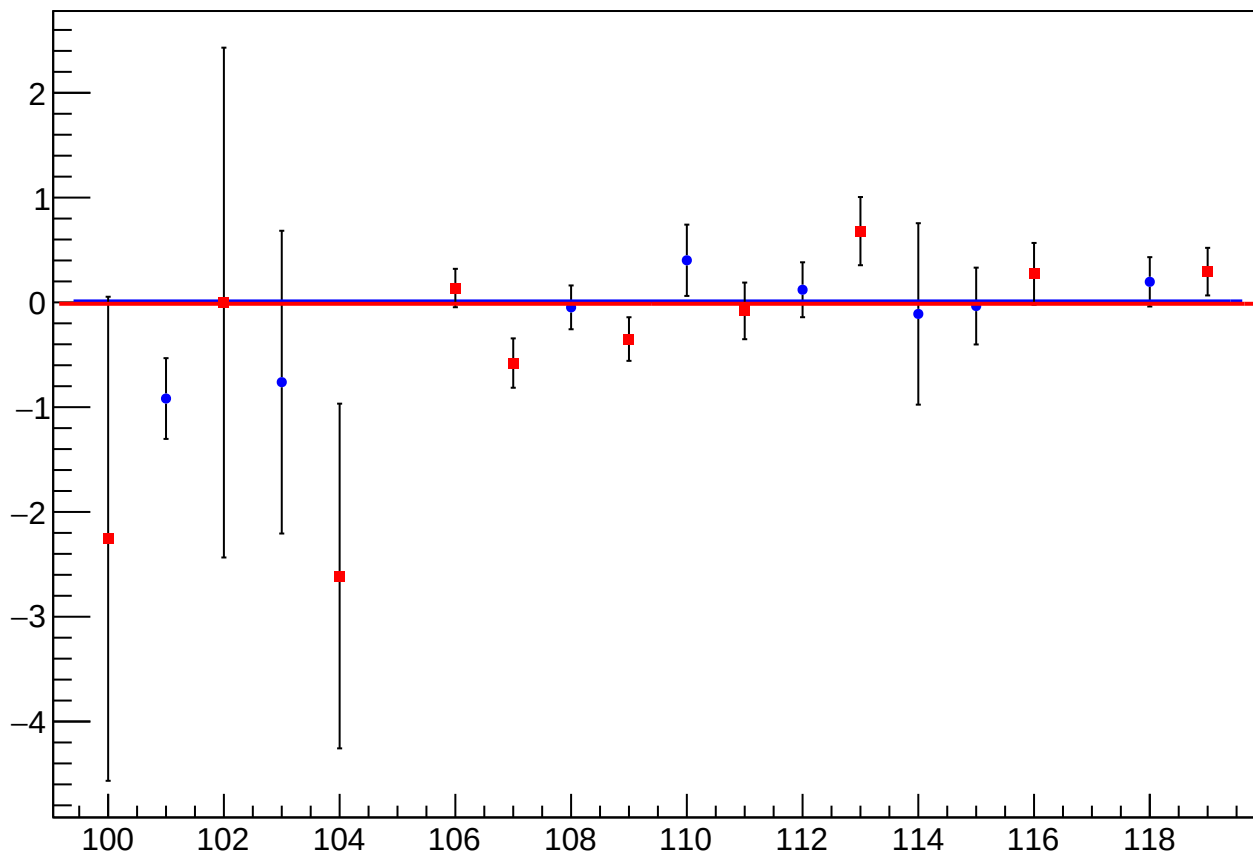
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1431353.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.112  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.013 $\pm$ 0.089  $\chi^2$ /NDF: 19.9/9

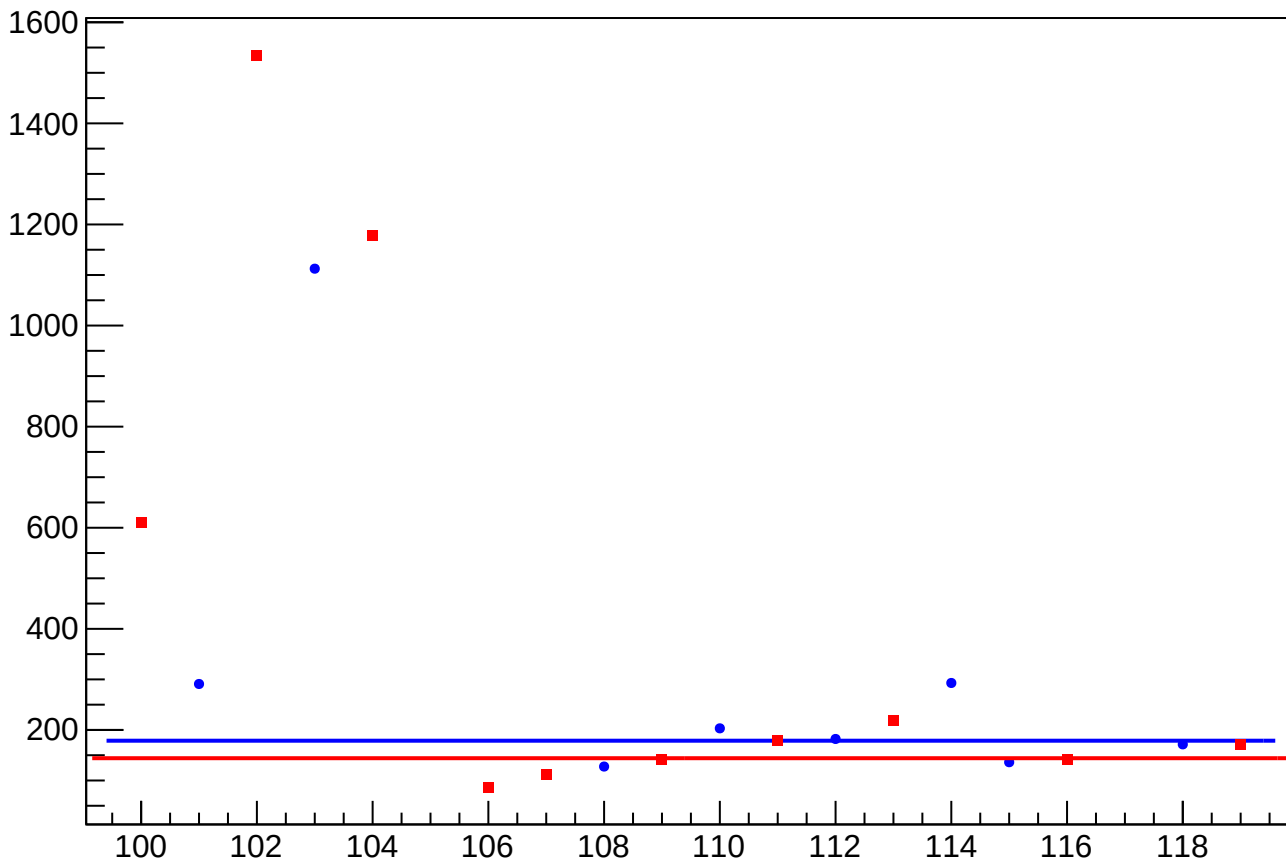
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.005 $\pm$ 0.070  $\chi^2$ /NDF: 28.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 178.705+/-0.079  $\chi^2/\text{NDF}$ : 1199220.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 144.086+/-0.063  $\chi^2/\text{NDF}$ : 1932131.9/9

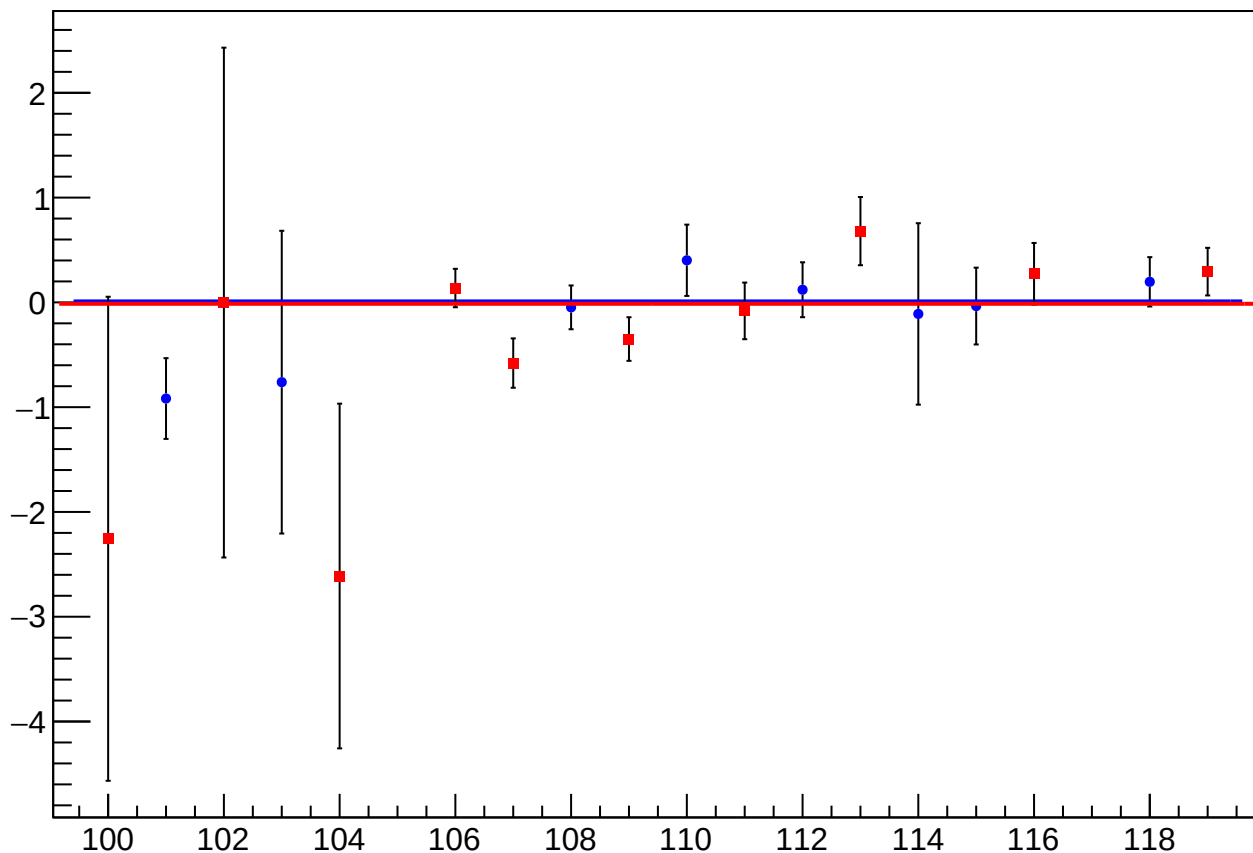
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 157.563+/-0.049  $\chi^2/\text{NDF}$ : 3248643.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $0.009 \pm 0.112$   $\chi^2/\text{NDF}$ : 8.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.013 \pm 0.089$   $\chi^2/\text{NDF}$ : 19.9/9

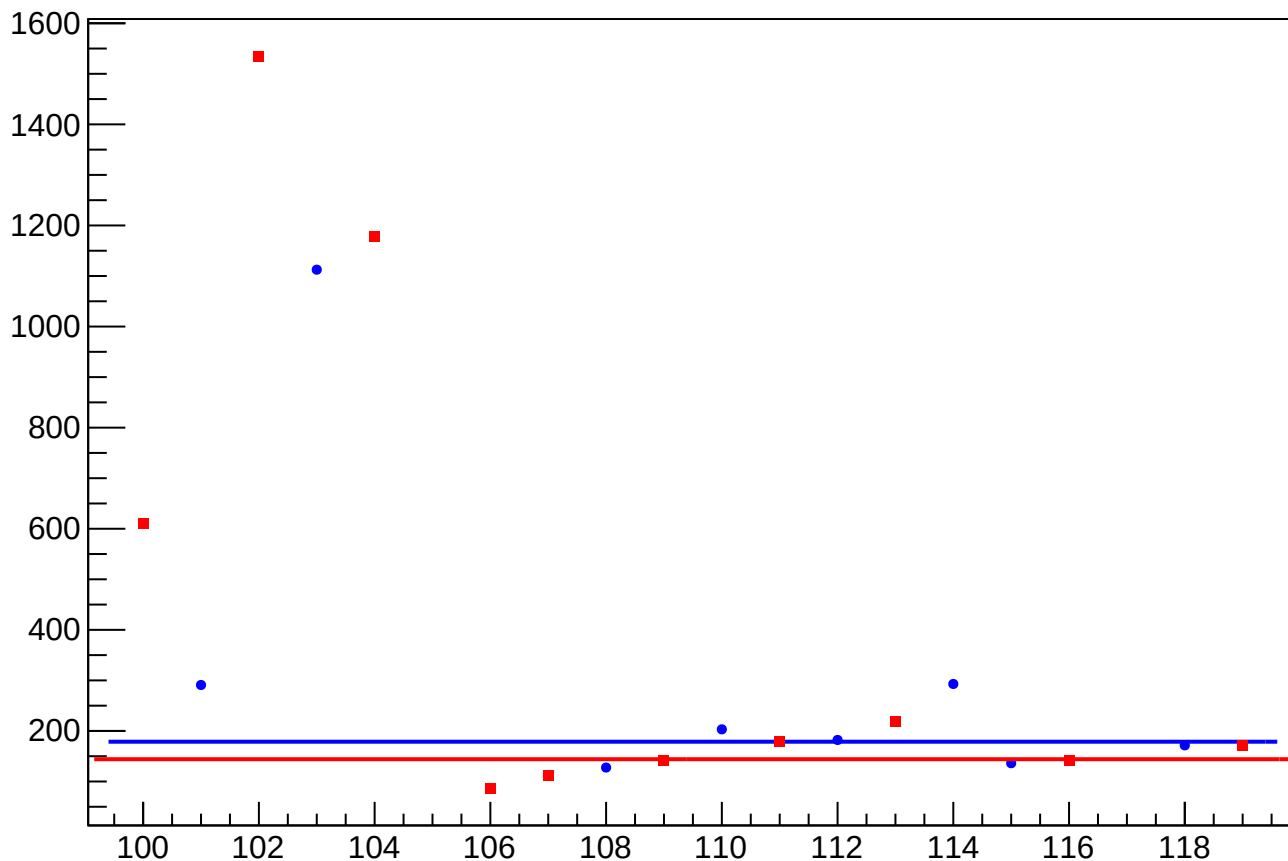
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.005 \pm 0.070$   $\chi^2/\text{NDF}$ : 28.2/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 178.705+/-0.079  $\chi^2/\text{NDF}$ : 1199220.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 144.086+/-0.063  $\chi^2/\text{NDF}$ : 1932131.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

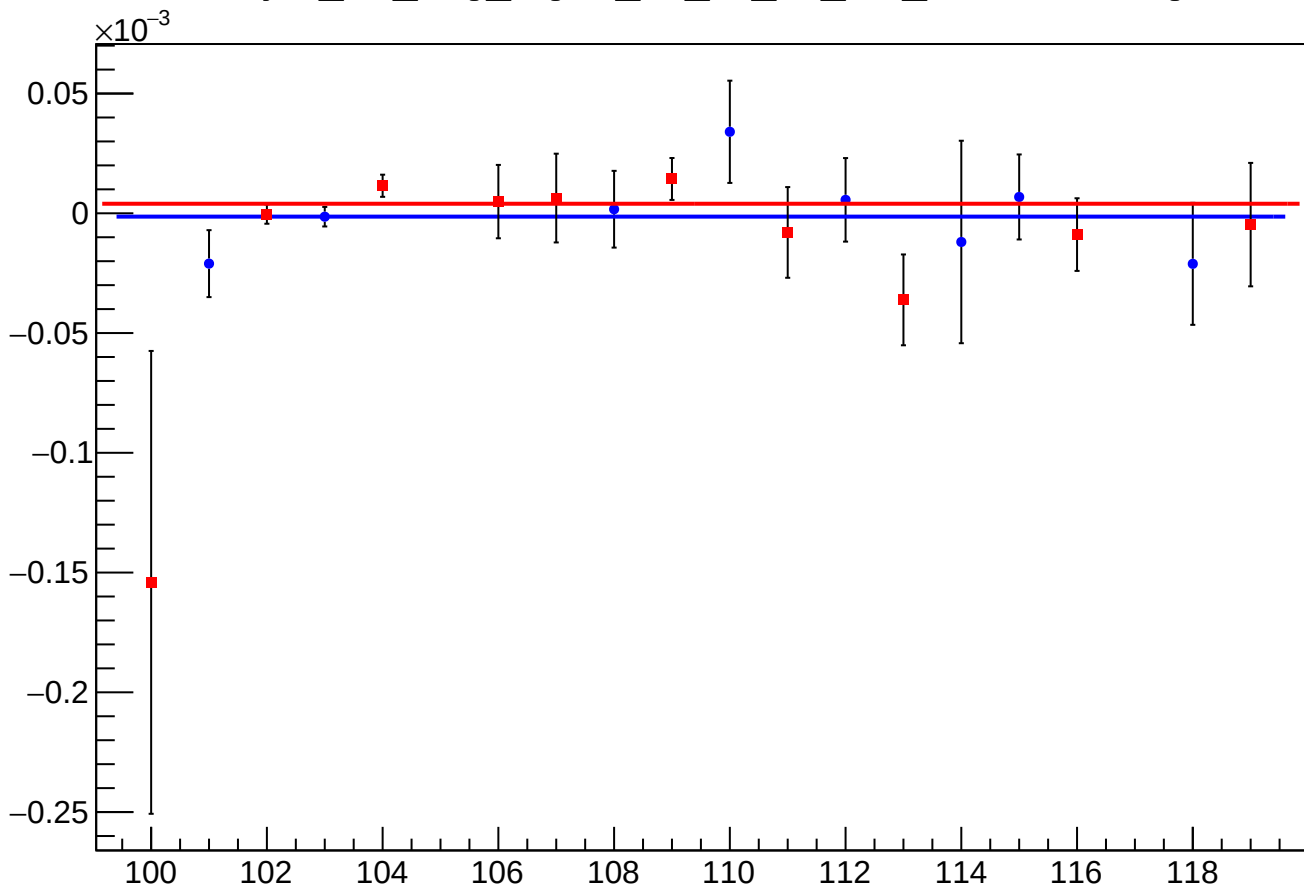
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 157.563+/-0.049  $\chi^2/\text{NDF}$ : 3248643.5/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.6/9

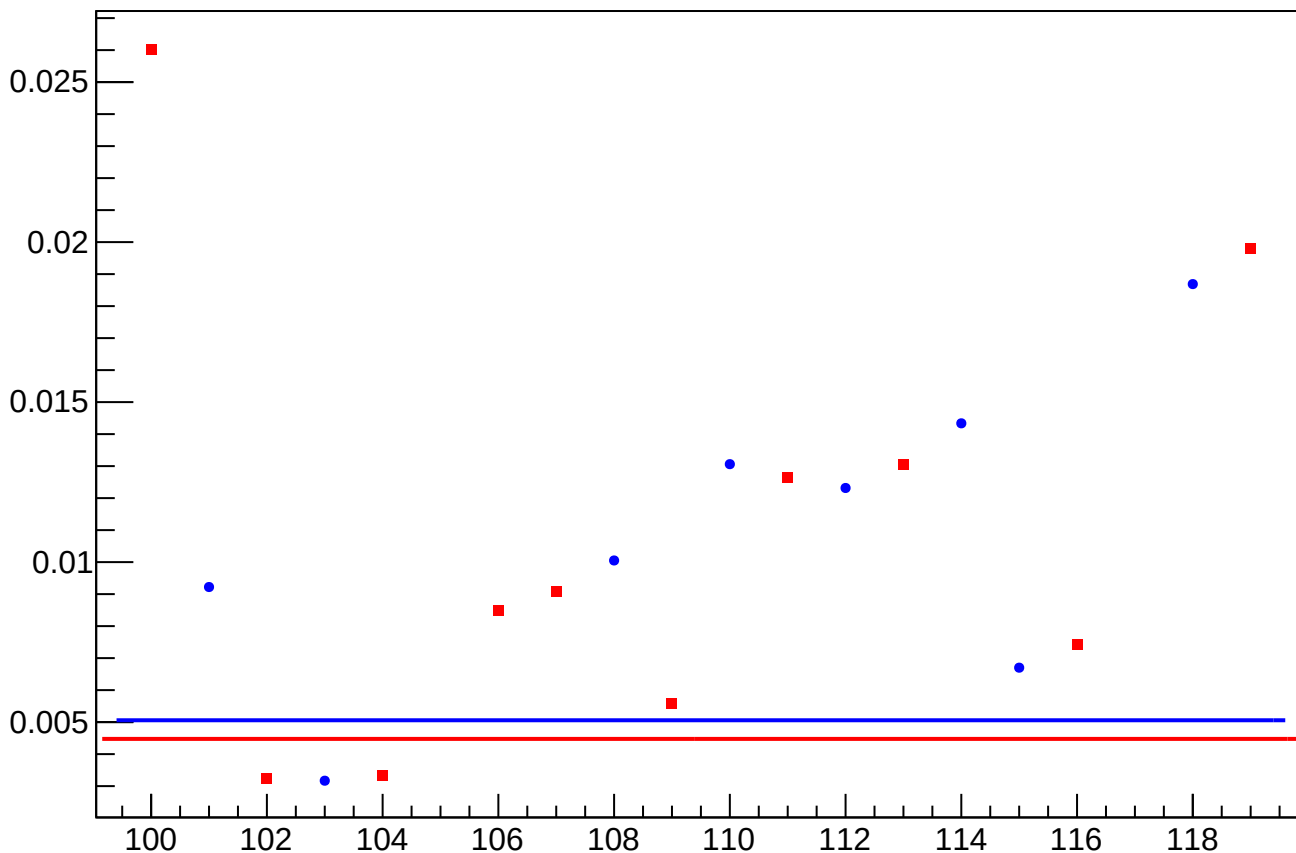
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2115048.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 2269077.2/9

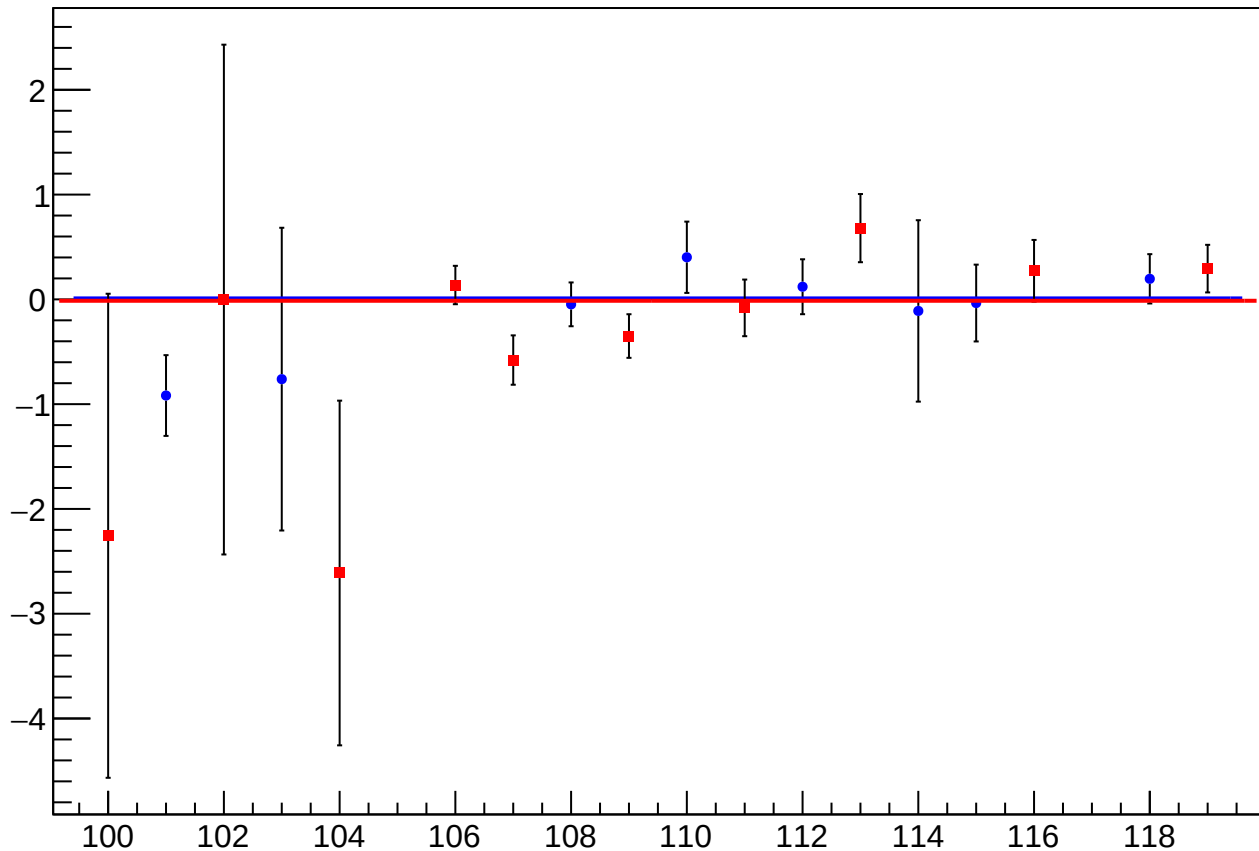
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 4418644.3/17

- 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: 0.009 $\pm$ 0.112  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.013 $\pm$ 0.089  $\chi^2$ /NDF: 19.9/9

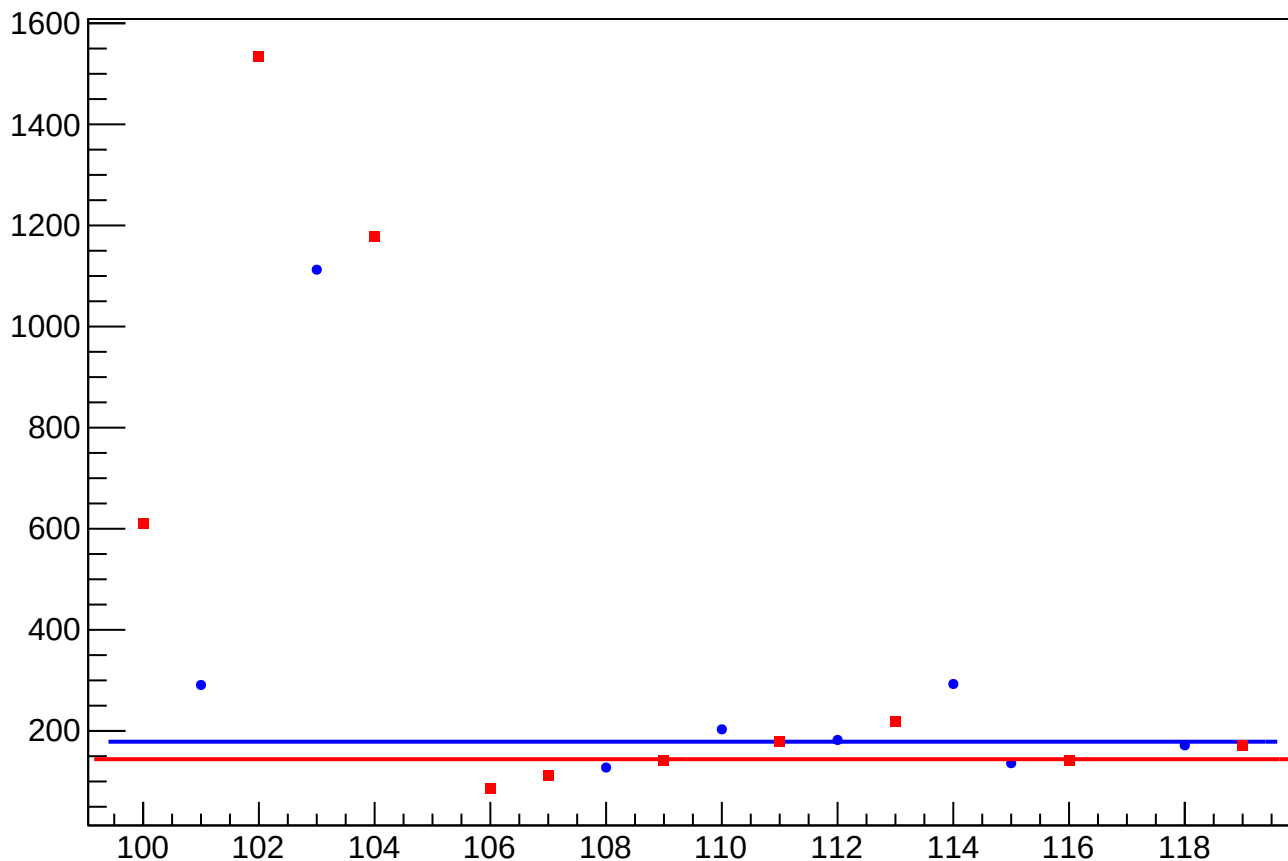
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.005 $\pm$ 0.070  $\chi^2$ /NDF: 28.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 178.705+/-0.079  $\chi^2/\text{NDF}$ : 1199228.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 144.087+/-0.063  $\chi^2/\text{NDF}$ : 1932131.8/9

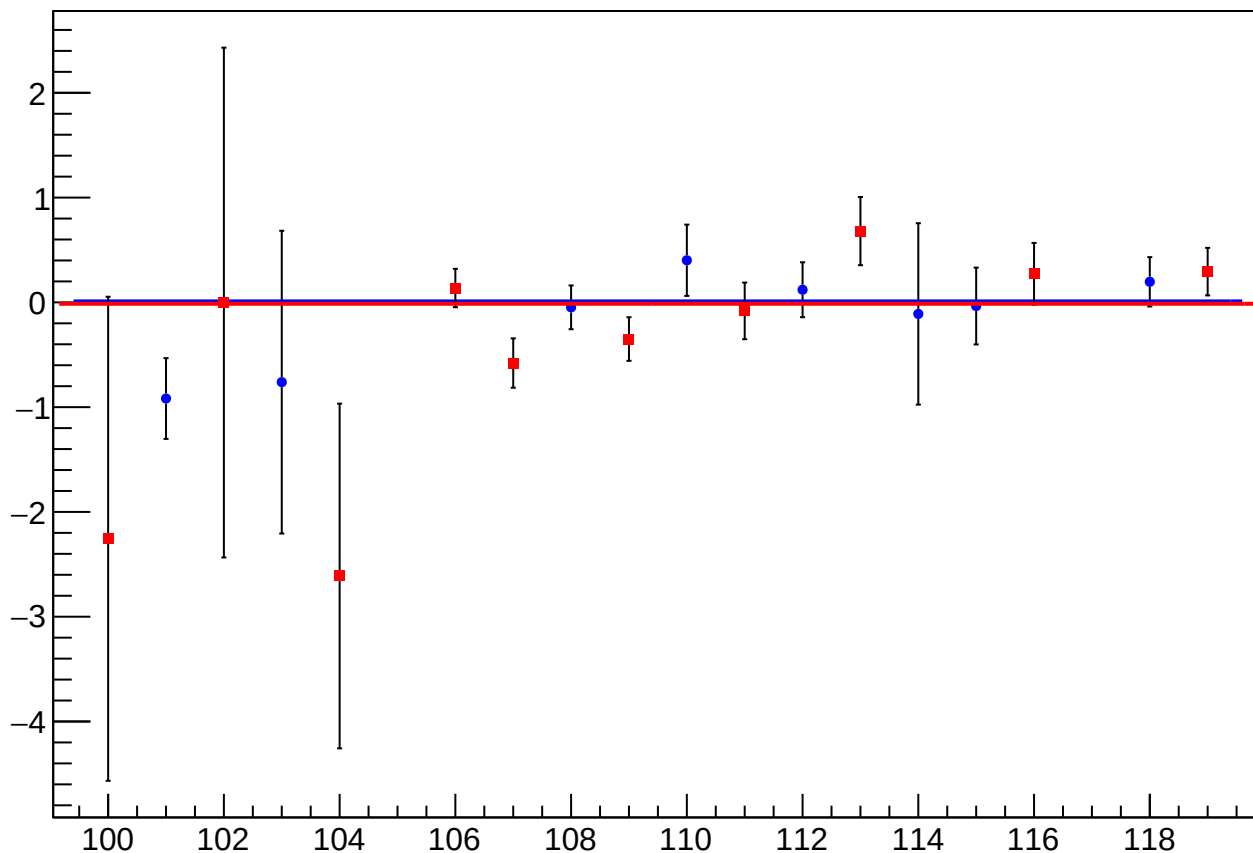
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 157.563+/-0.049  $\chi^2/\text{NDF}$ : 3248645.9/17

- 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: 0.009 $\pm$ 0.112  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.013 $\pm$ 0.089  $\chi^2$ /NDF: 19.9/9

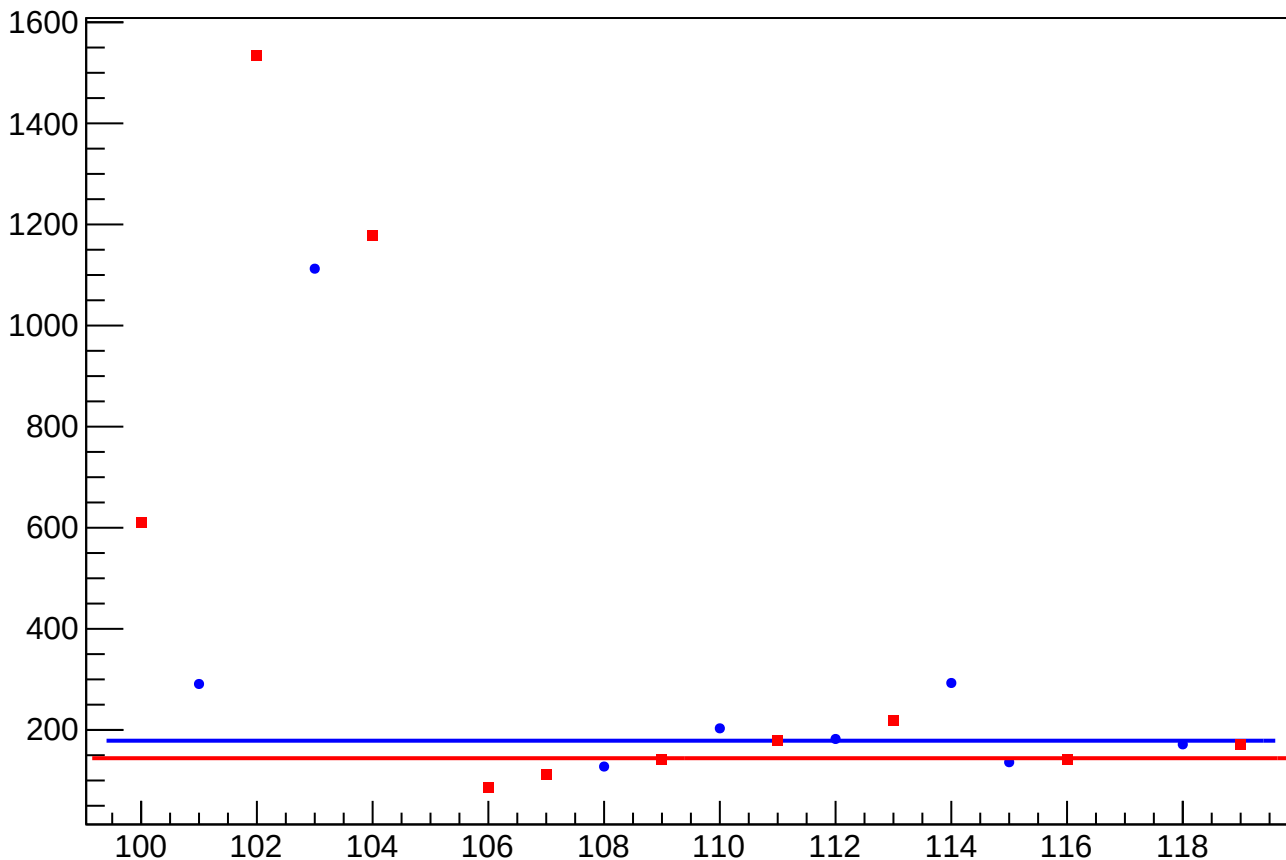
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.005 $\pm$ 0.070  $\chi^2$ /NDF: 28.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 178.705+/-0.079  $\chi^2/\text{NDF}$ : 1199228.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 144.087+/-0.063  $\chi^2/\text{NDF}$ : 1932131.8/9

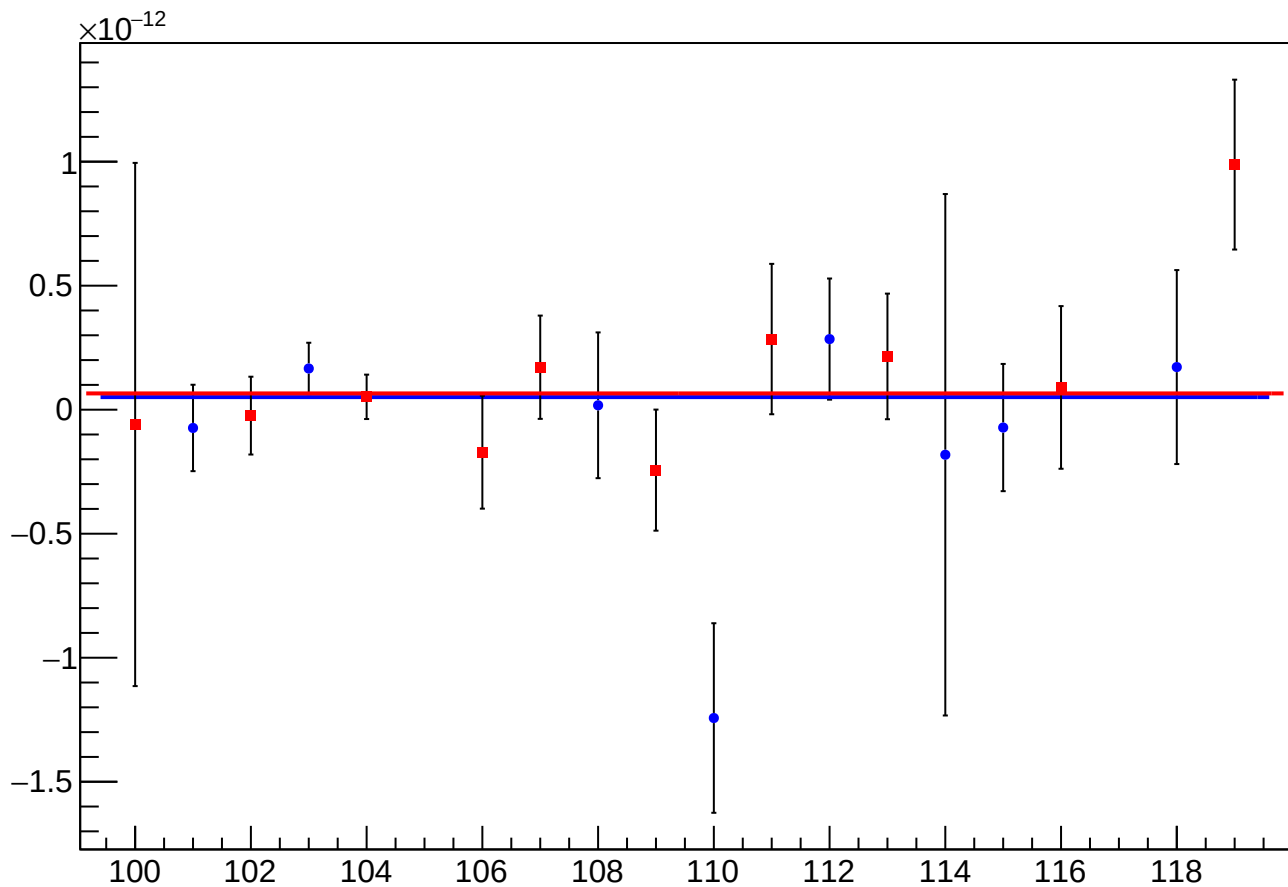
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 157.563+/-0.049  $\chi^2/\text{NDF}$ : 3248645.9/17

- 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  $\chi^2$ /NDF: 14.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.4/9

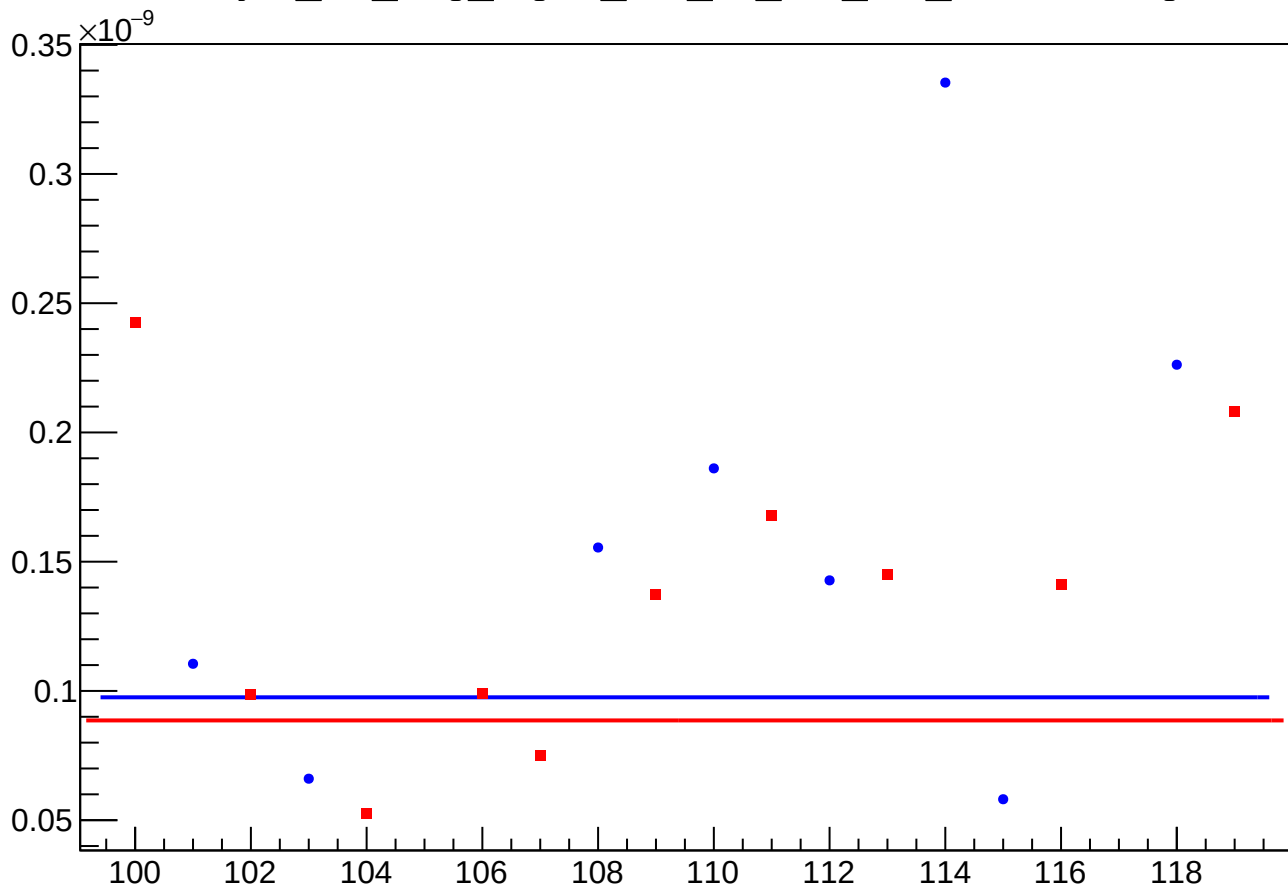
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 26.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 815177.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 999268.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

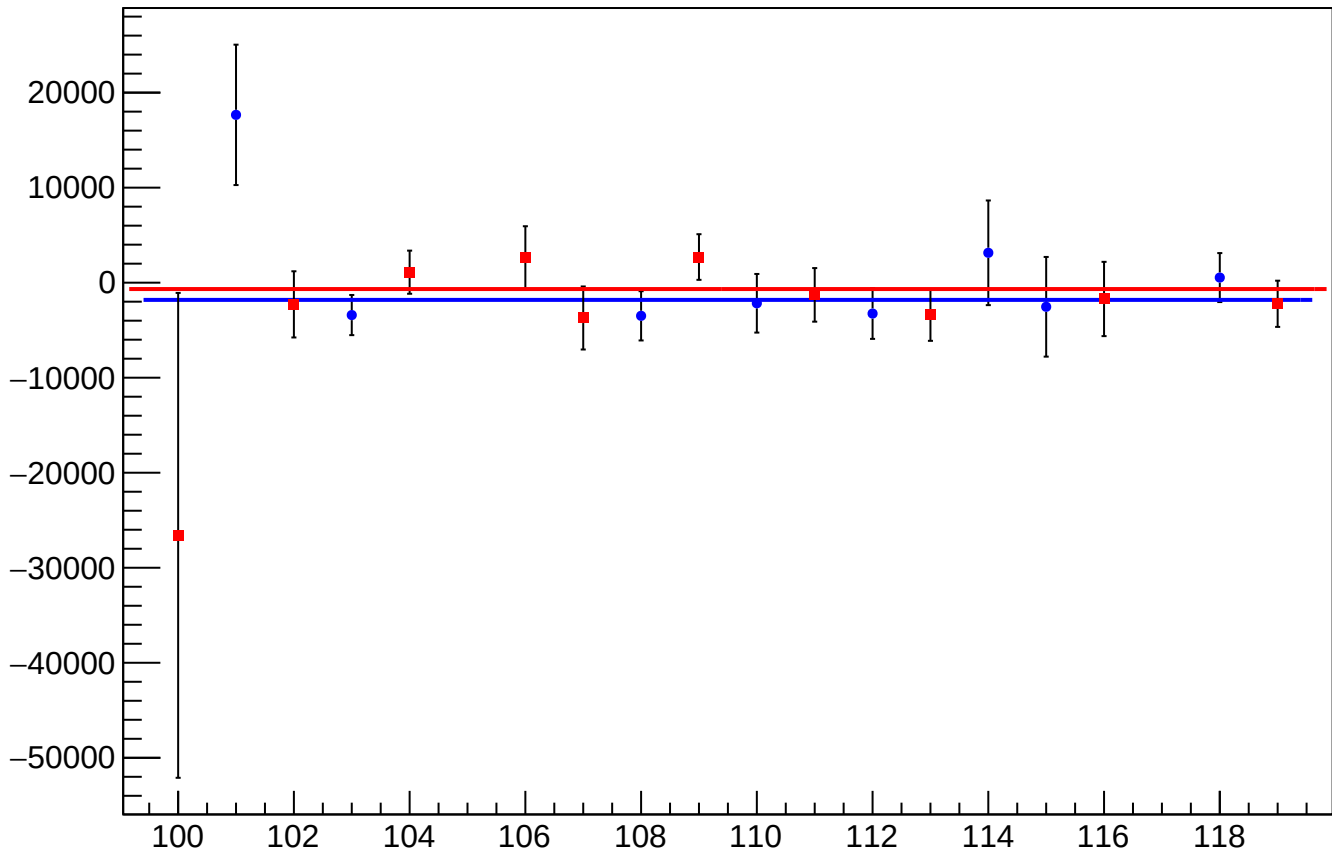
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1831923.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr\_dd\_mean vs Slug



Right In:  $-1811.485 \pm 1080.193$   $\chi^2/\text{NDF}$ : 9.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-670.580 \pm 941.592$   $\chi^2/\text{NDF}$ : 7.2/9

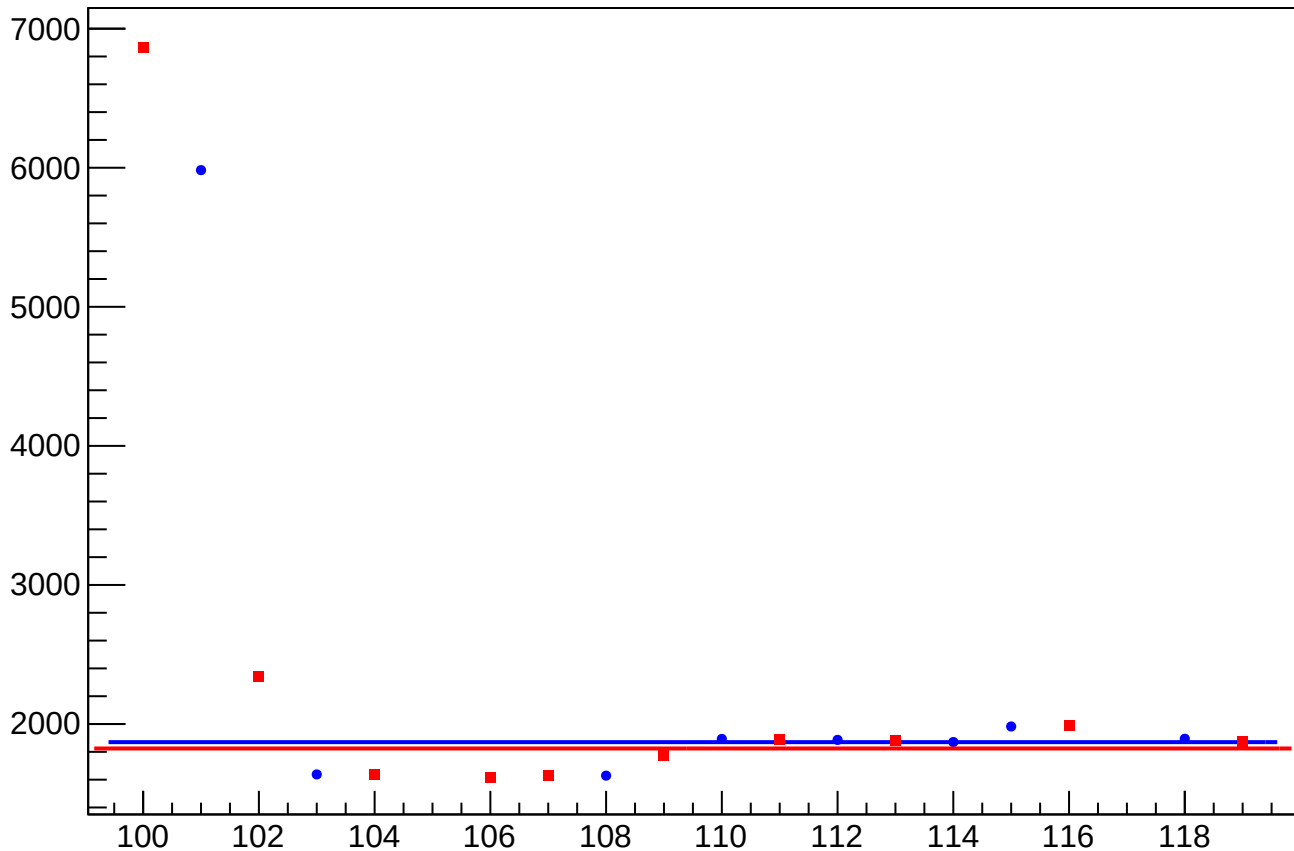
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1163.184 \pm 709.784$   $\chi^2/\text{NDF}$ : 17.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_rms vs Slug



Right In: 1869.769+/-0.764     $\chi^2/\text{NDF}$ : 662727.2/7

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1824.201+/-0.662     $\chi^2/\text{NDF}$ : 159974.1/9

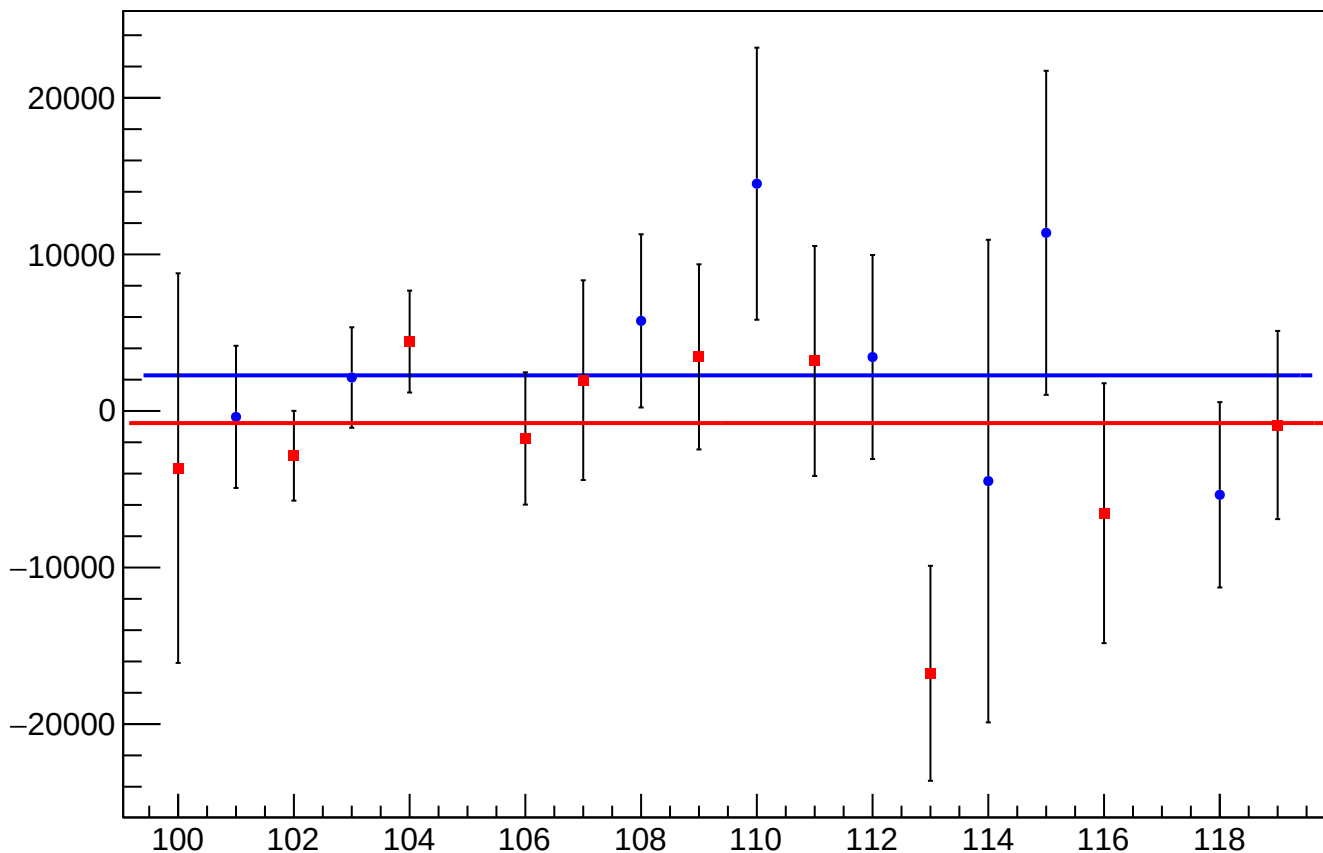
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 1843.740+/-0.500     $\chi^2/\text{NDF}$ : 824734.2/17

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_reg\_correction\_mean vs Slug



Right In: 2275.373+/-1971.644  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -773.781+/-1554.628  $\chi^2/\text{NDF}$ : 10.1/9

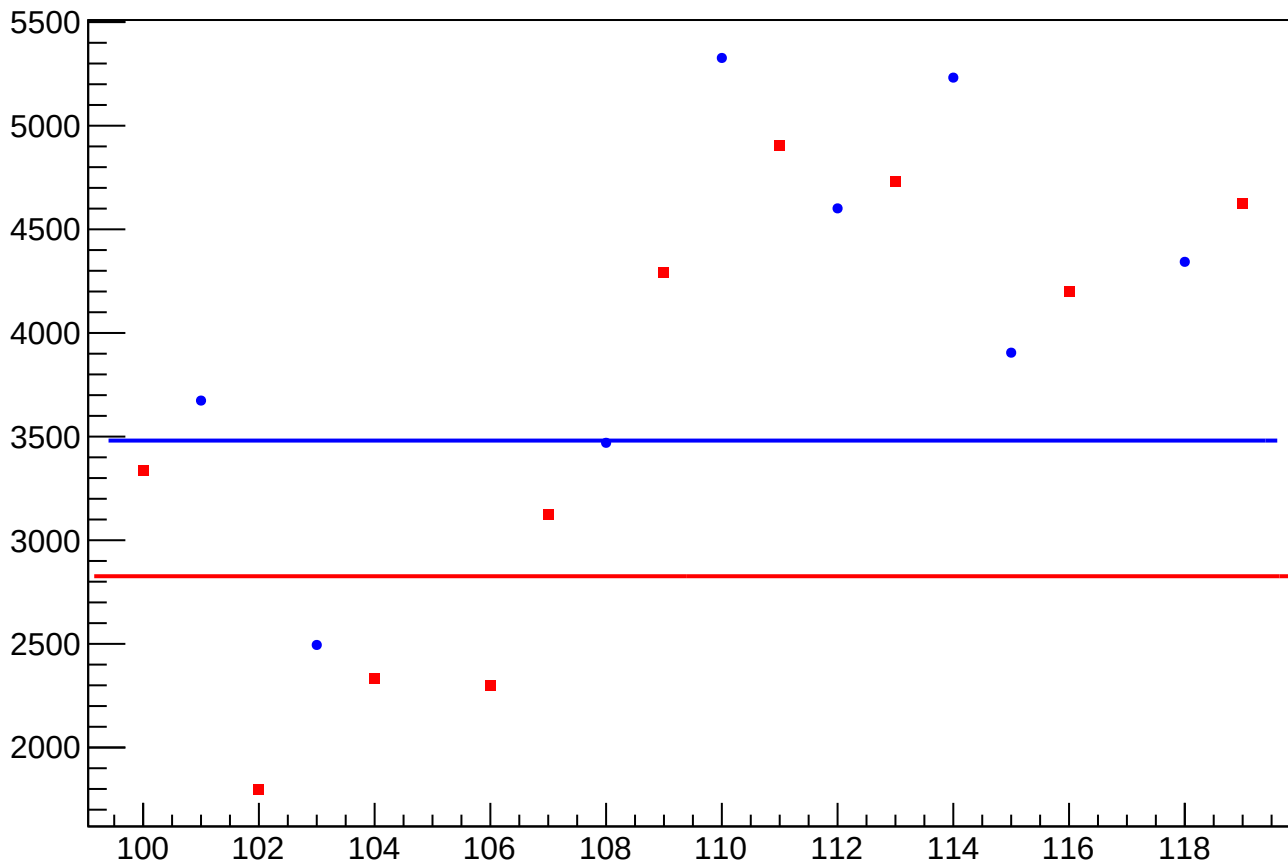
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 395.177+/-1220.783  $\chi^2/\text{NDF}$ : 16.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_reg\_correction\_rms vs Slug



Right In: 3480.829+/-1.394  $\chi^2/\text{NDF}$ : 413601.2/7

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

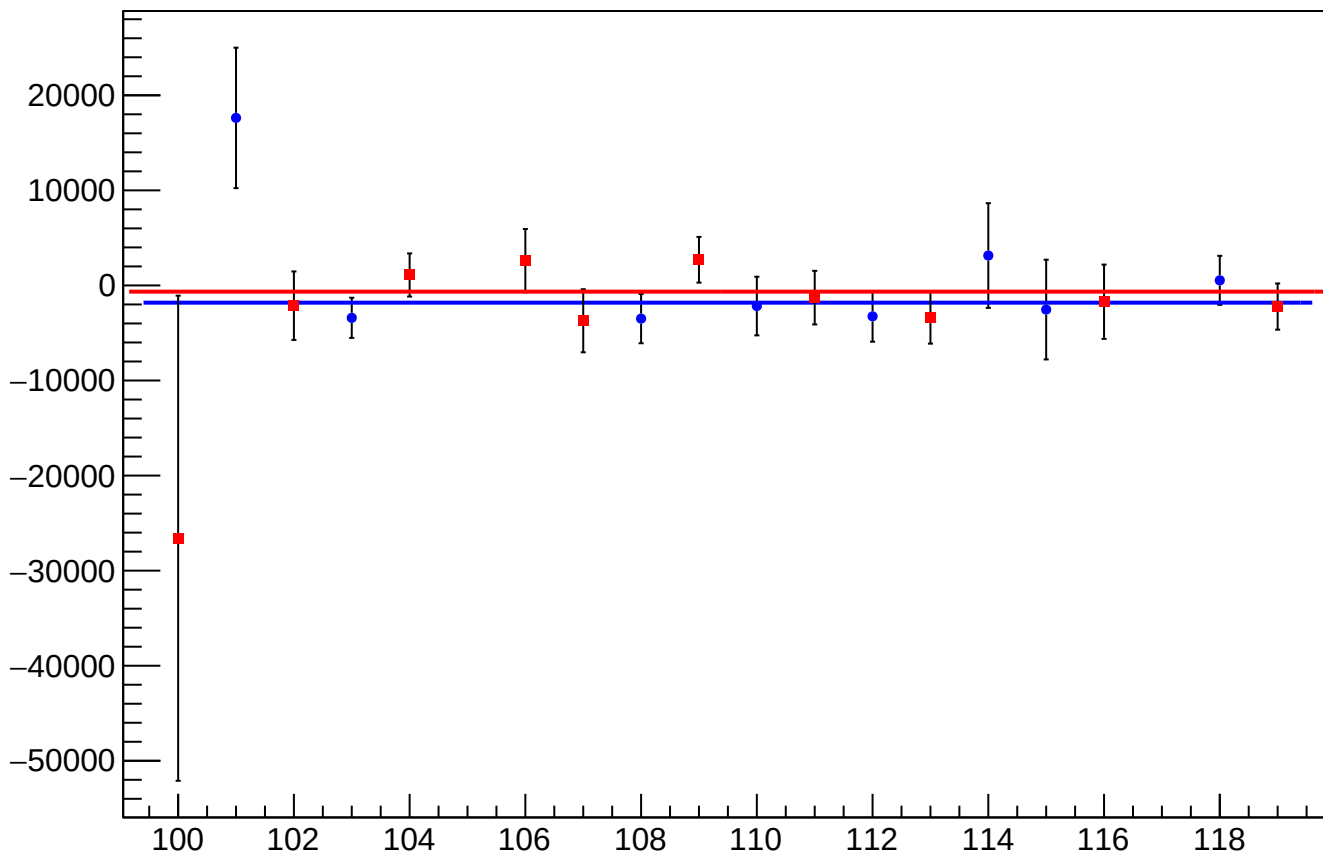
Right Out: 2826.345+/-1.099  $\chi^2/\text{NDF}$ : 1013430.4/9

All: 3077.255+/-0.863  $\chi^2/\text{NDF}$ : 1562923.8/17

- 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\_atr\_dd\_mean vs Slug



Right In: -1812.161+/-1080.194  $\chi^2$ /NDF: 9.9/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -653.289+/-943.876  $\chi^2$ /NDF: 7.1/9

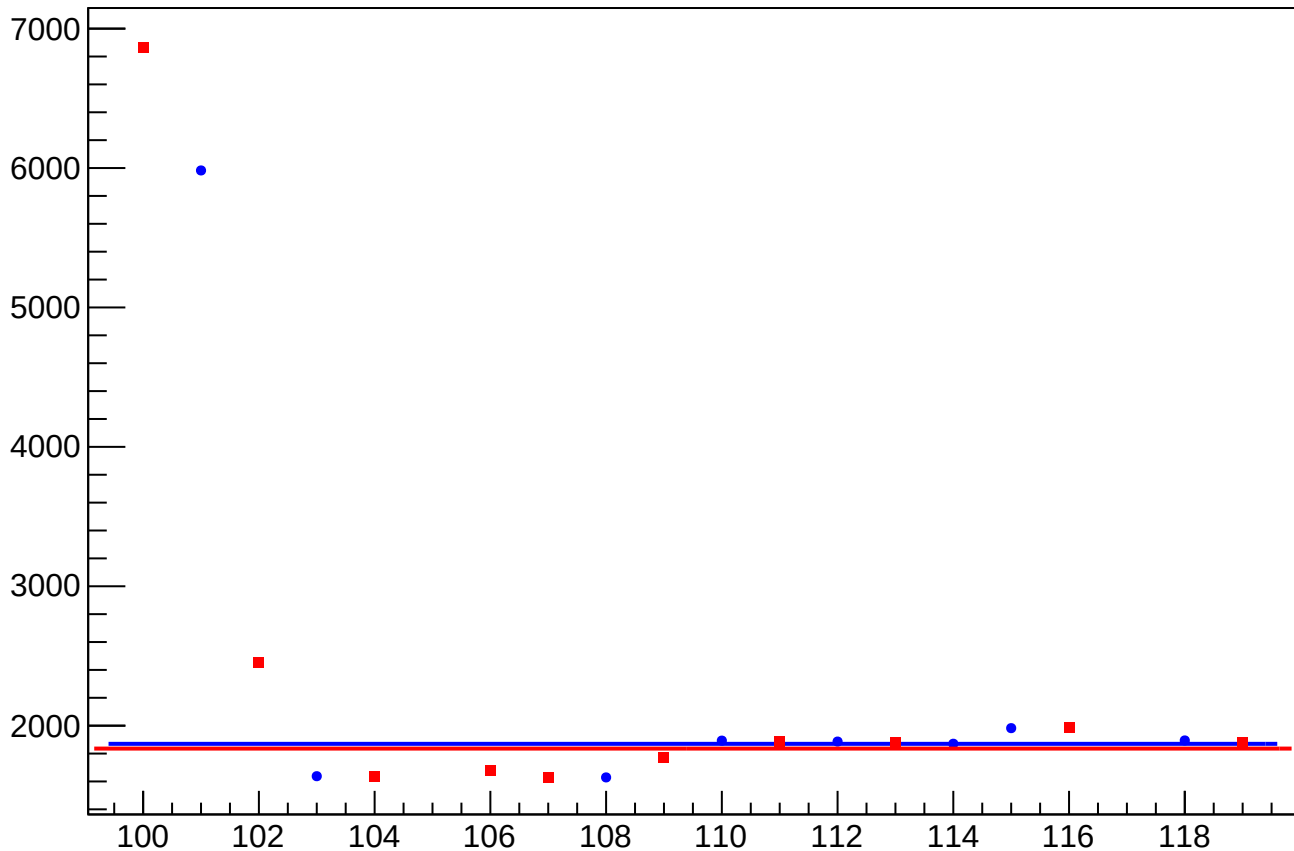
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1155.030+/-710.761  $\chi^2$ /NDF: 17.6/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atr\_dd\_rms vs Slug



Right In: 1869.768+/-0.764  $\chi^2/\text{NDF}$ : 662727.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1835.755+/-0.666  $\chi^2/\text{NDF}$ : 171440.0/9

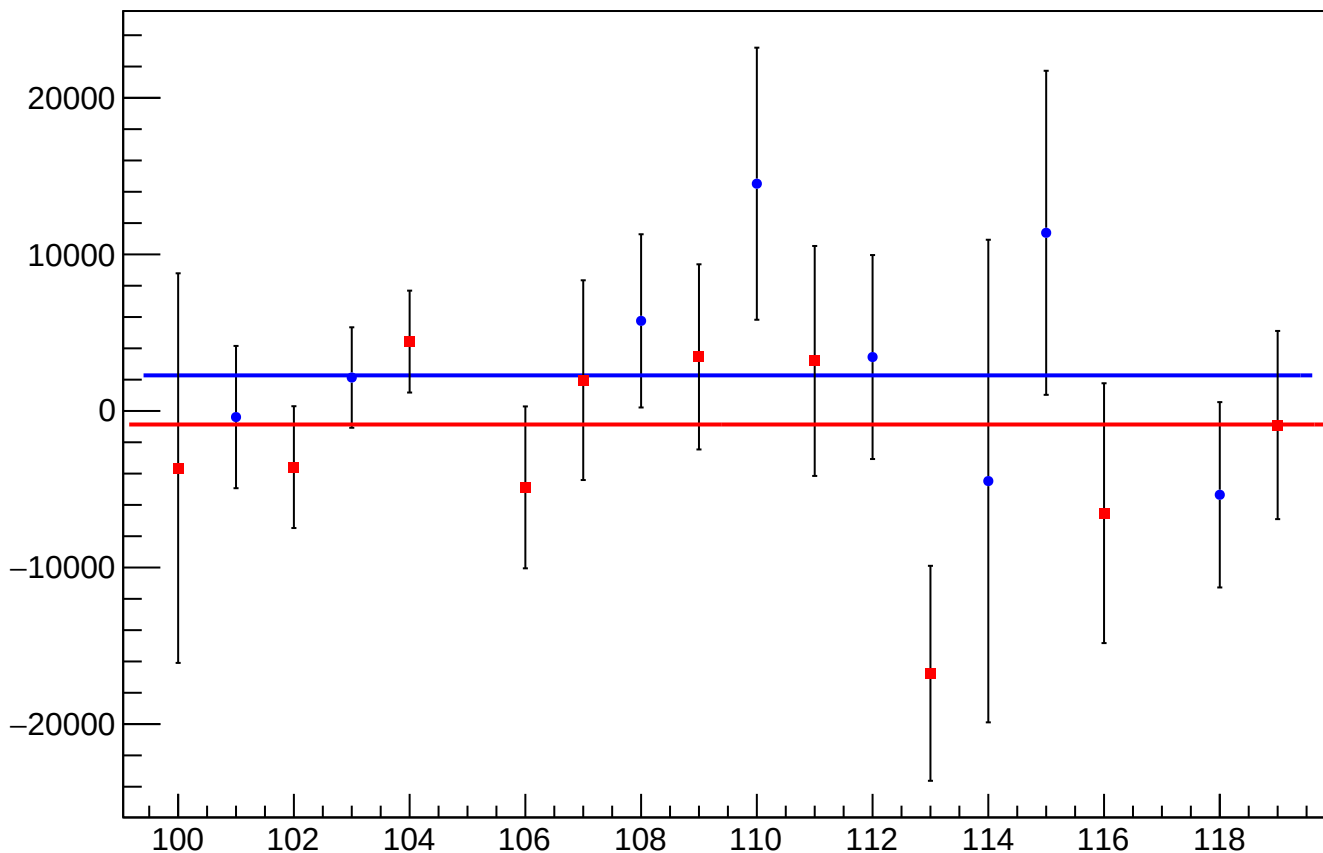
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1850.434+/-0.502  $\chi^2/\text{NDF}$ : 835294.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_cor\_correction\_mean vs Slug



Right In: 2273.713+/-1972.054  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -864.089+/-1716.242  $\chi^2/\text{NDF}$ : 10.7/9

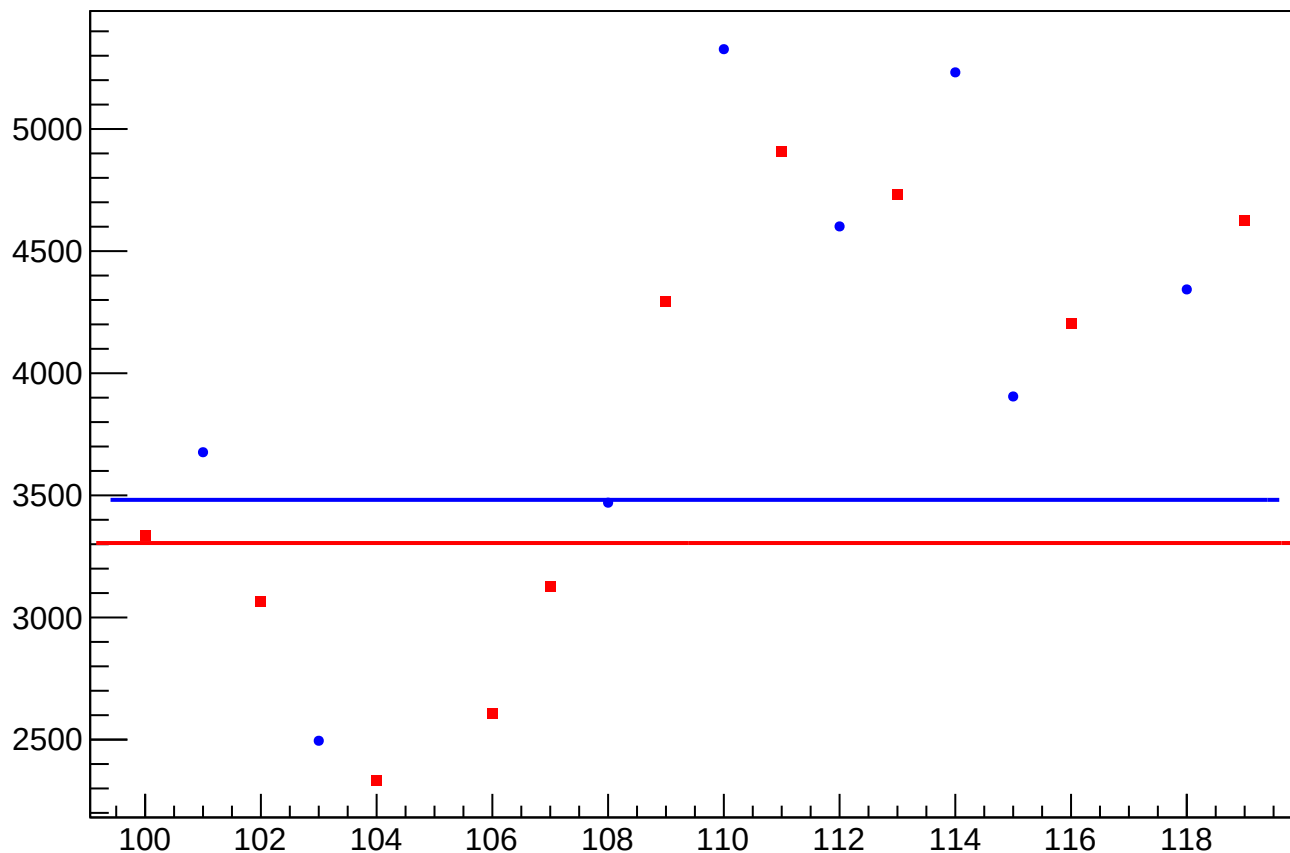
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 488.223+/-1294.627  $\chi^2/\text{NDF}$ : 17.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_cor\_correction\_rms vs Slug



Right In: 3481.616+/-1.394  $\chi^2/\text{NDF}$ : 413451.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3304.864+/-1.214  $\chi^2/\text{NDF}$ : 580416.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

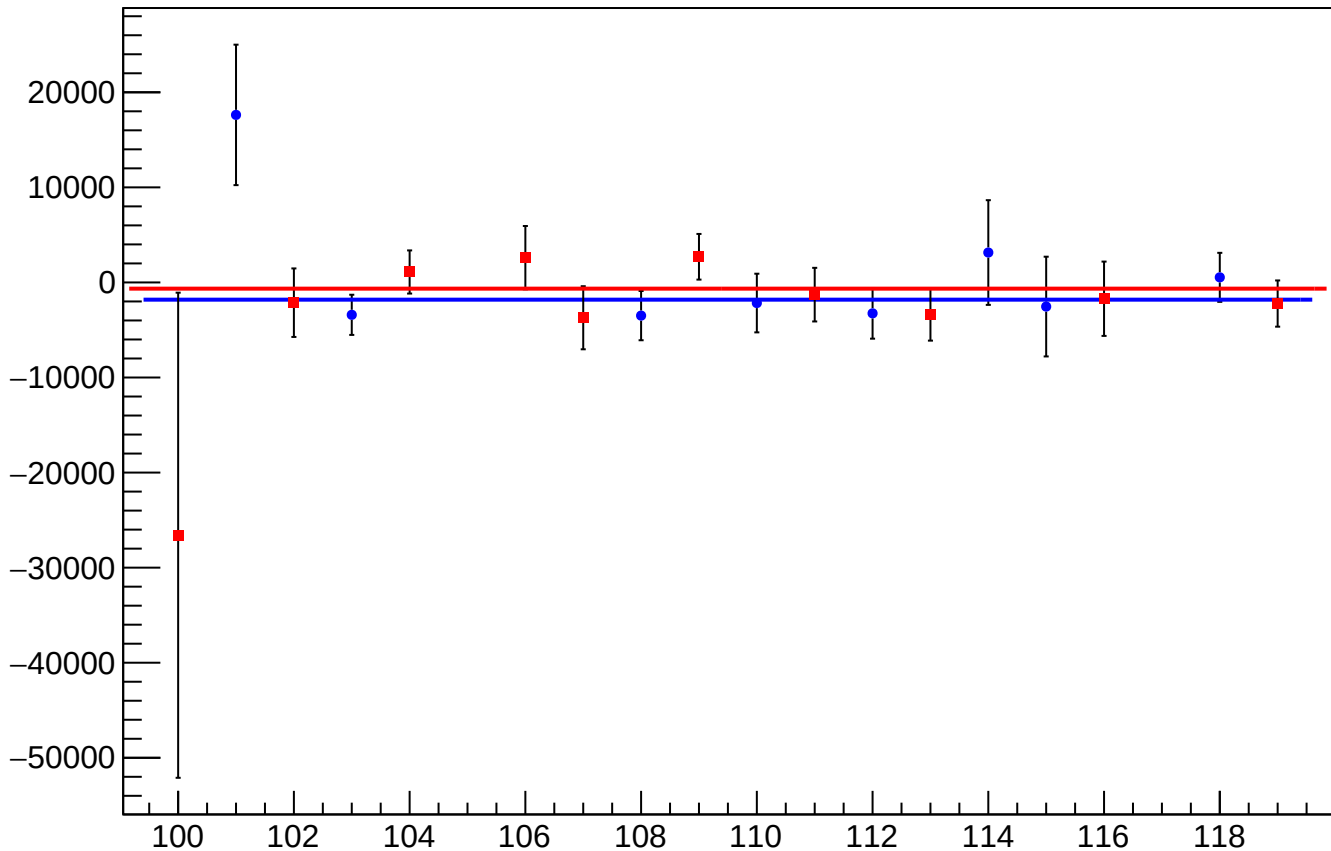
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3381.040+/-0.915  $\chi^2/\text{NDF}$ : 1003009.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_atr\_dd\_mean vs Slug



Right In: -1812.161 $\pm$ 1080.194  $\chi^2$ /NDF: 9.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -653.289 $\pm$ 943.876  $\chi^2$ /NDF: 7.1/9

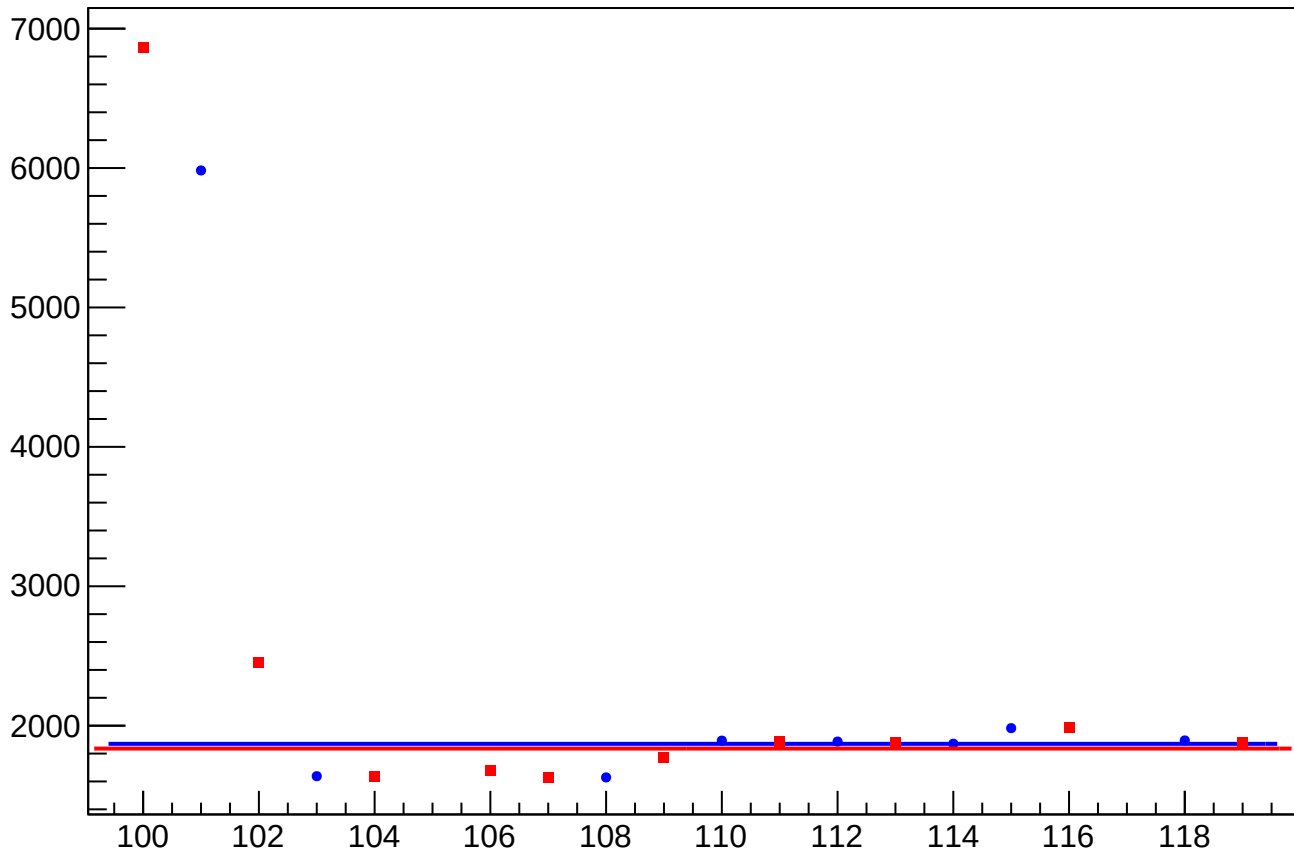
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1155.030 $\pm$ 710.761  $\chi^2$ /NDF: 17.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atr\_dd\_rms vs Slug



Right In: 1869.768+/-0.764  $\chi^2/\text{NDF}$ : 662727.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1835.755+/-0.666  $\chi^2/\text{NDF}$ : 171440.0/9

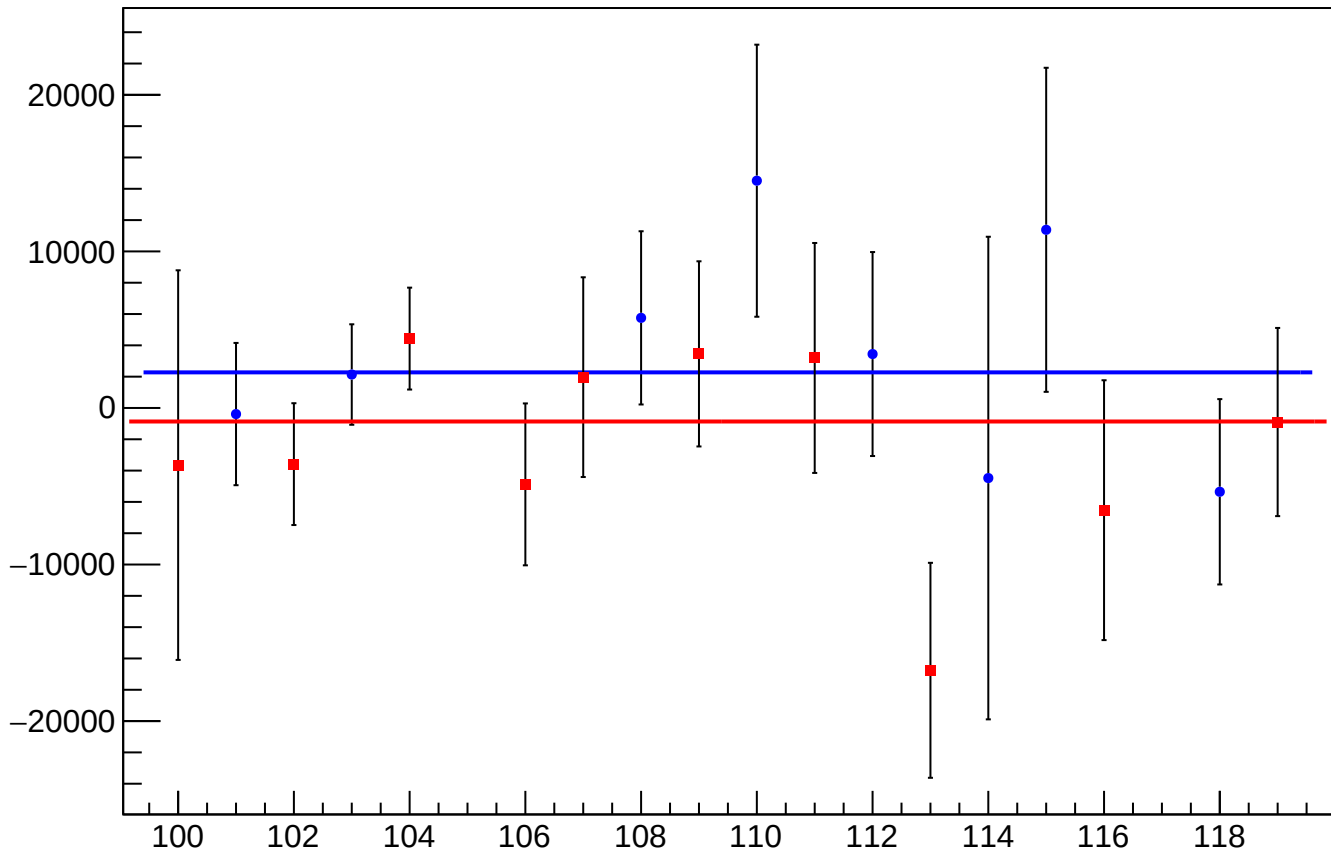
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1850.434+/-0.502  $\chi^2/\text{NDF}$ : 835294.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 2273.713+/-1972.054  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -864.089+/-1716.242  $\chi^2/\text{NDF}$ : 10.7/9

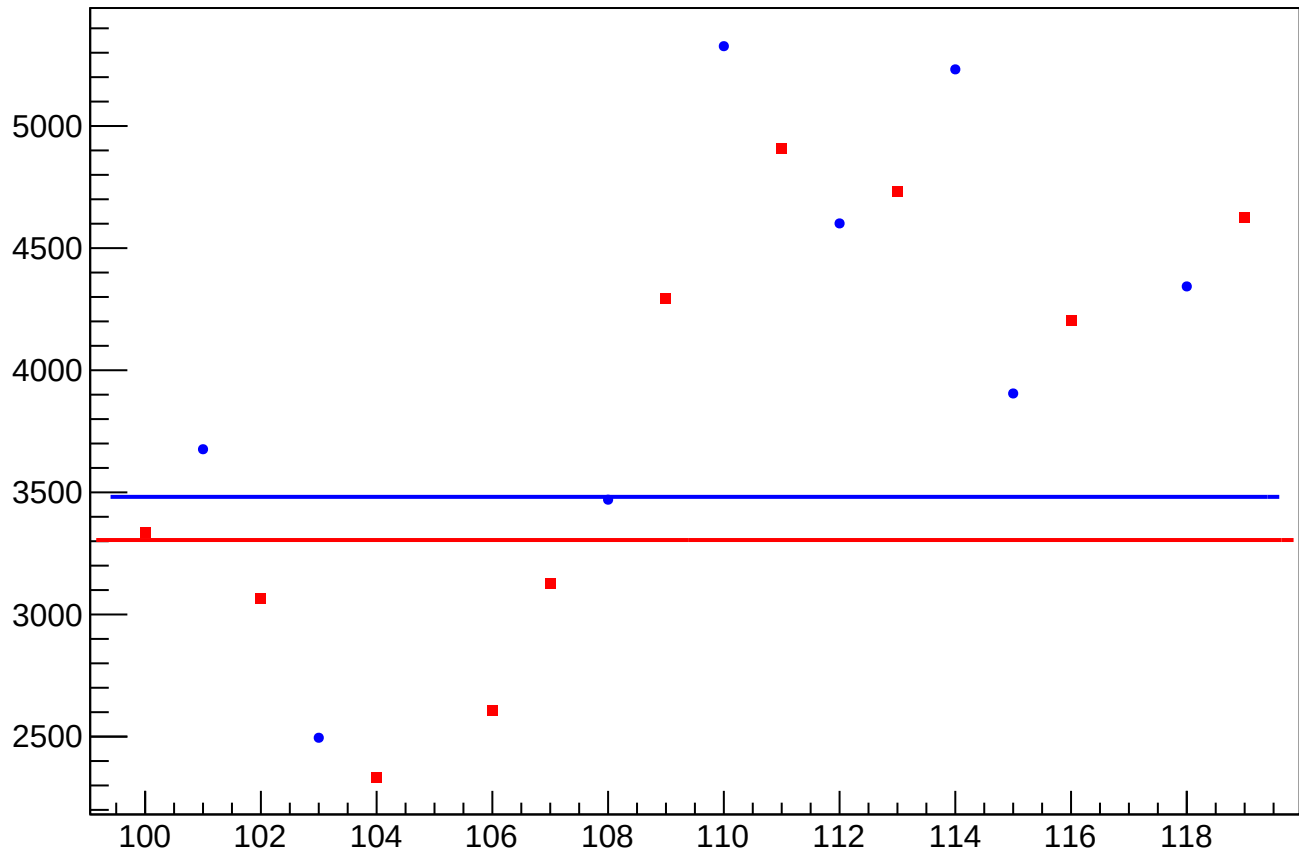
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 488.223+/-1294.627  $\chi^2/\text{NDF}$ : 17.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3481.616+/-1.394  $\chi^2/\text{NDF}$ : 413451.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3304.864+/-1.214  $\chi^2/\text{NDF}$ : 580416.3/9

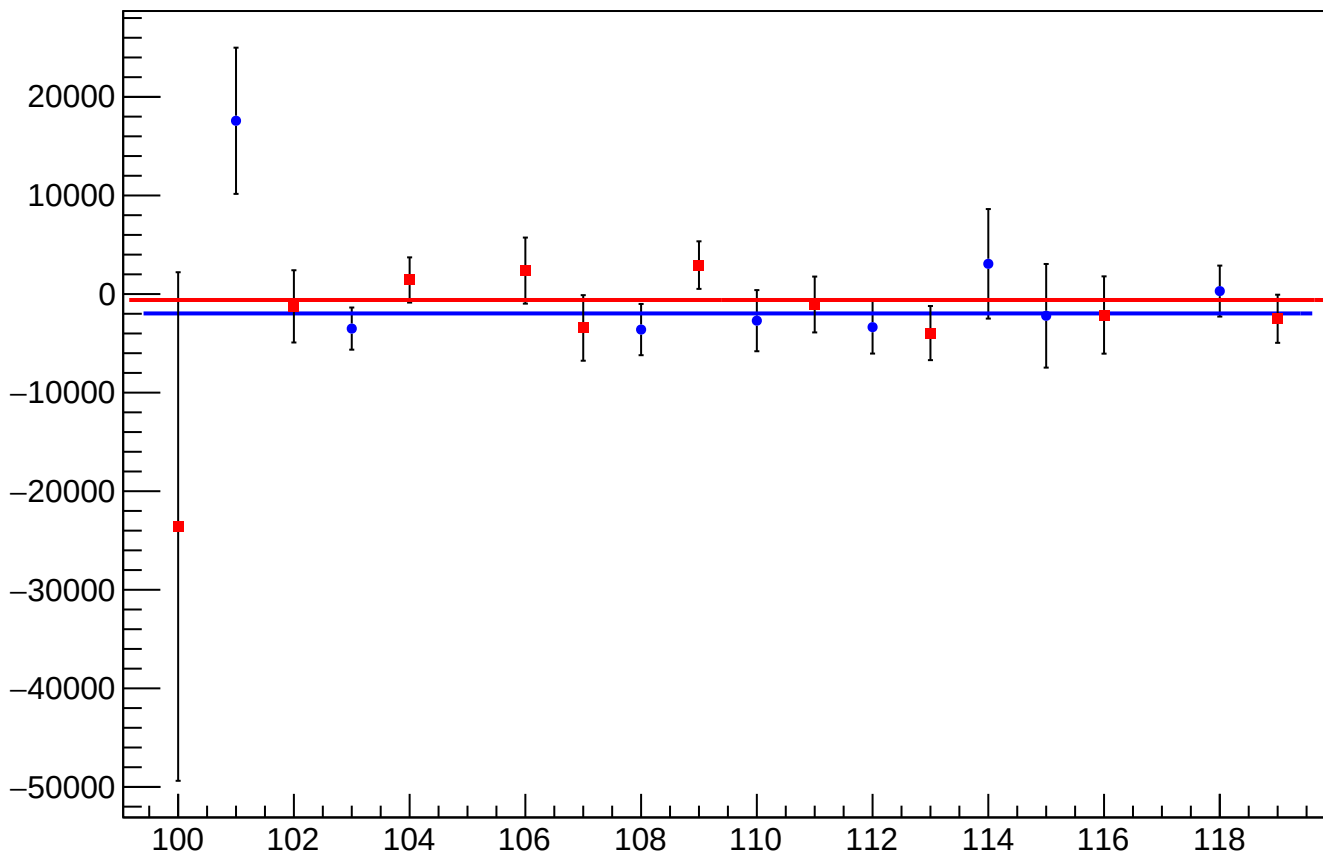
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3381.040+/-0.915  $\chi^2/\text{NDF}$ : 1003009.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atr\_dd\_mean vs Slug



Right In: -1966.133+/-1086.913  $\chi^2$ /NDF: 9.8/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -602.663+/-950.196  $\chi^2$ /NDF: 7.6/9

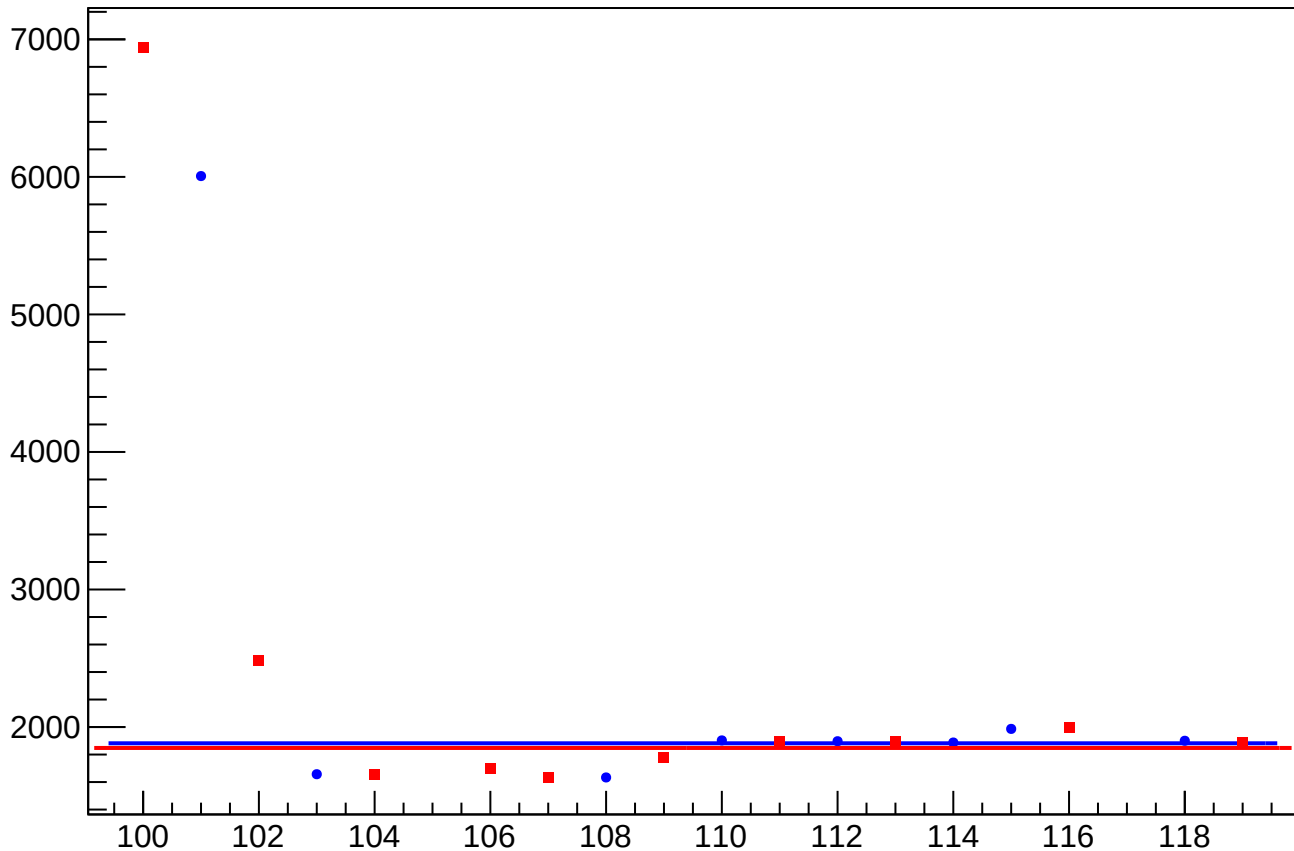
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1193.302+/-715.373  $\chi^2$ /NDF: 18.2/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atr\_dd\_rms vs Slug



Right In: 1881.818 $\pm$ 0.769  $\chi^2$ /NDF: 659937.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1847.905 $\pm$ 0.671  $\chi^2$ /NDF: 170976.0/9

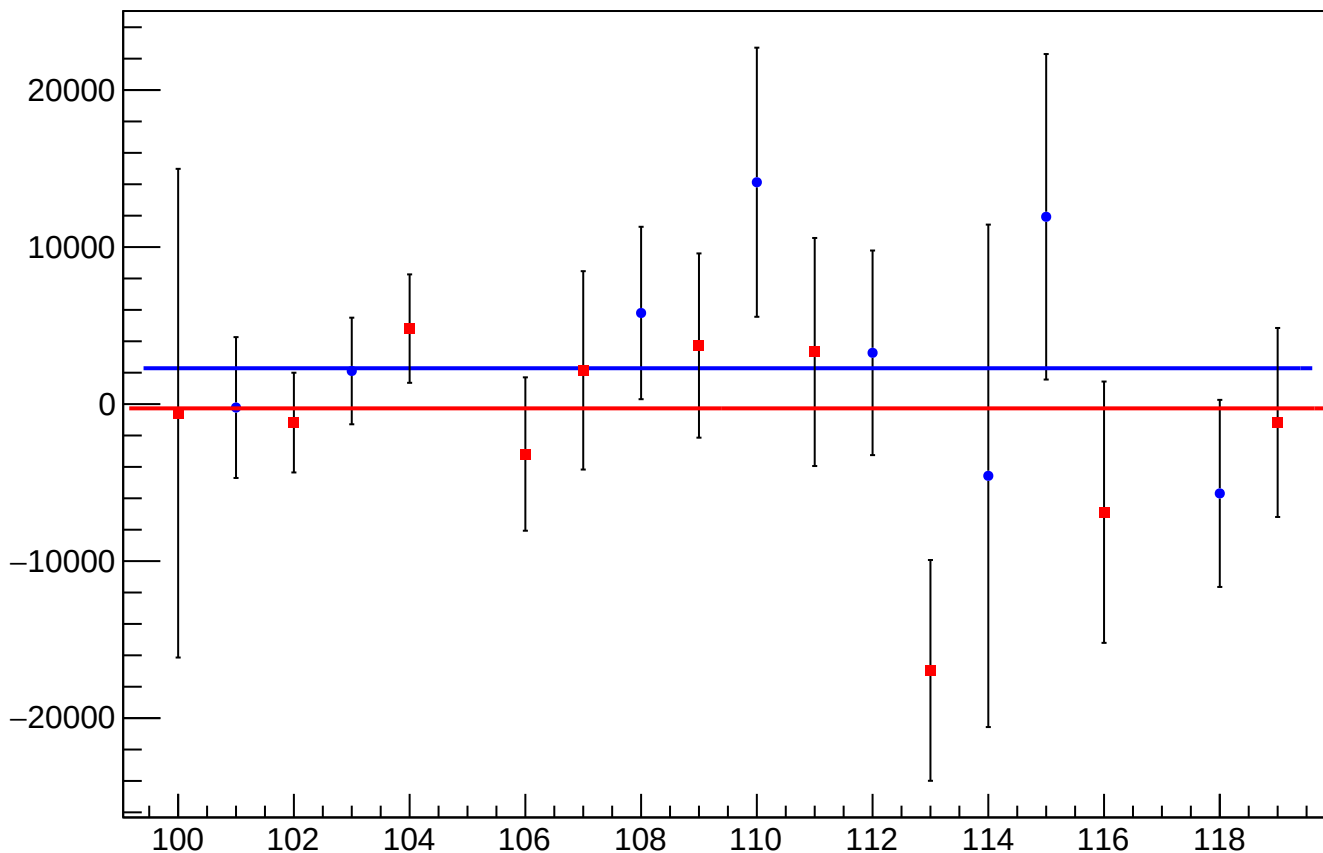
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1862.564 $\pm$ 0.505  $\chi^2$ /NDF: 832018.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_dit\_correction\_mean vs Slug



Right In: 2283.256+/-2007.087  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -271.988+/-1656.485  $\chi^2/\text{NDF}$ : 9.7/9

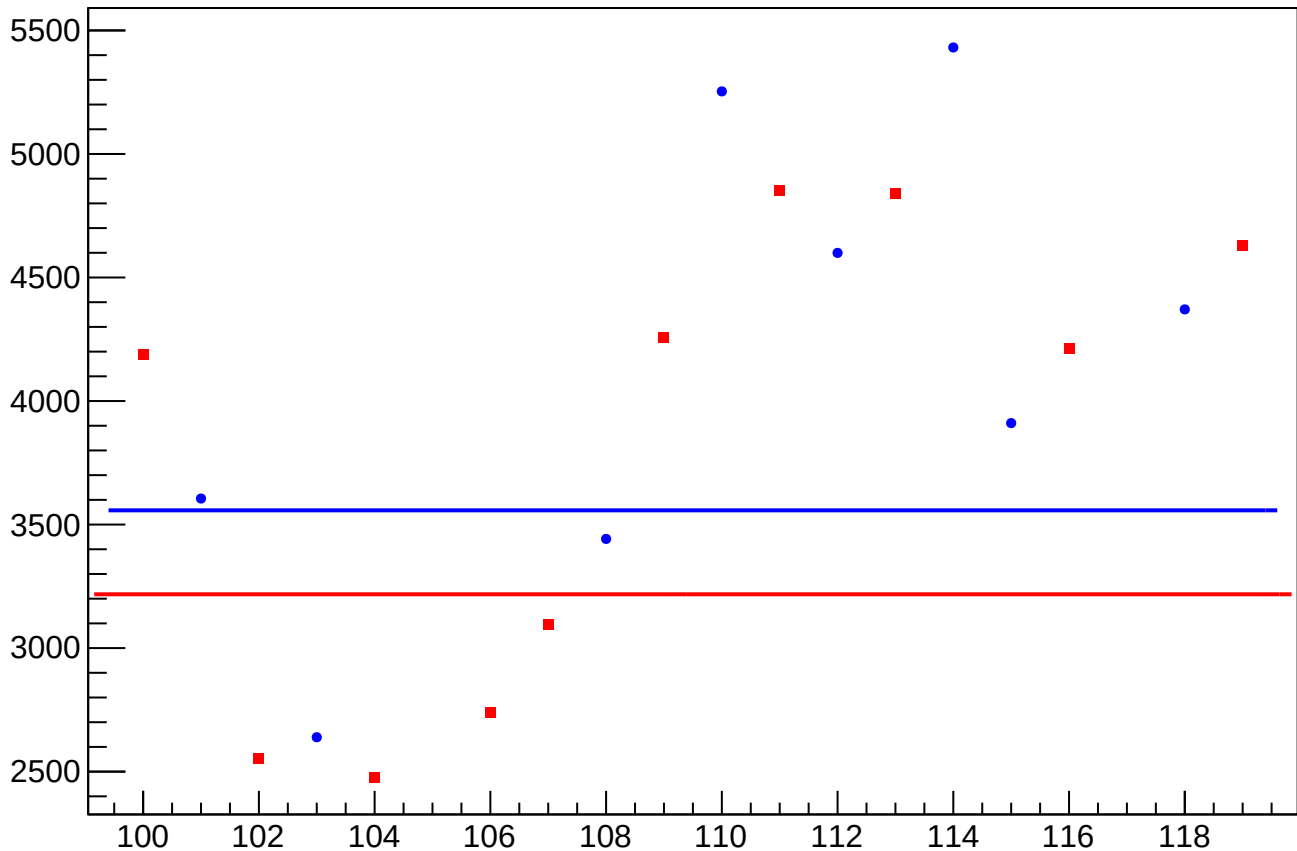
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 763.318+/-1277.569  $\chi^2/\text{NDF}$ : 16.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_dit\_correction\_rms vs Slug



Right In: 3557.577+/-1.419  $\chi^2/\text{NDF}$ : 344013.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3217.784+/-1.171  $\chi^2/\text{NDF}$ : 616553.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

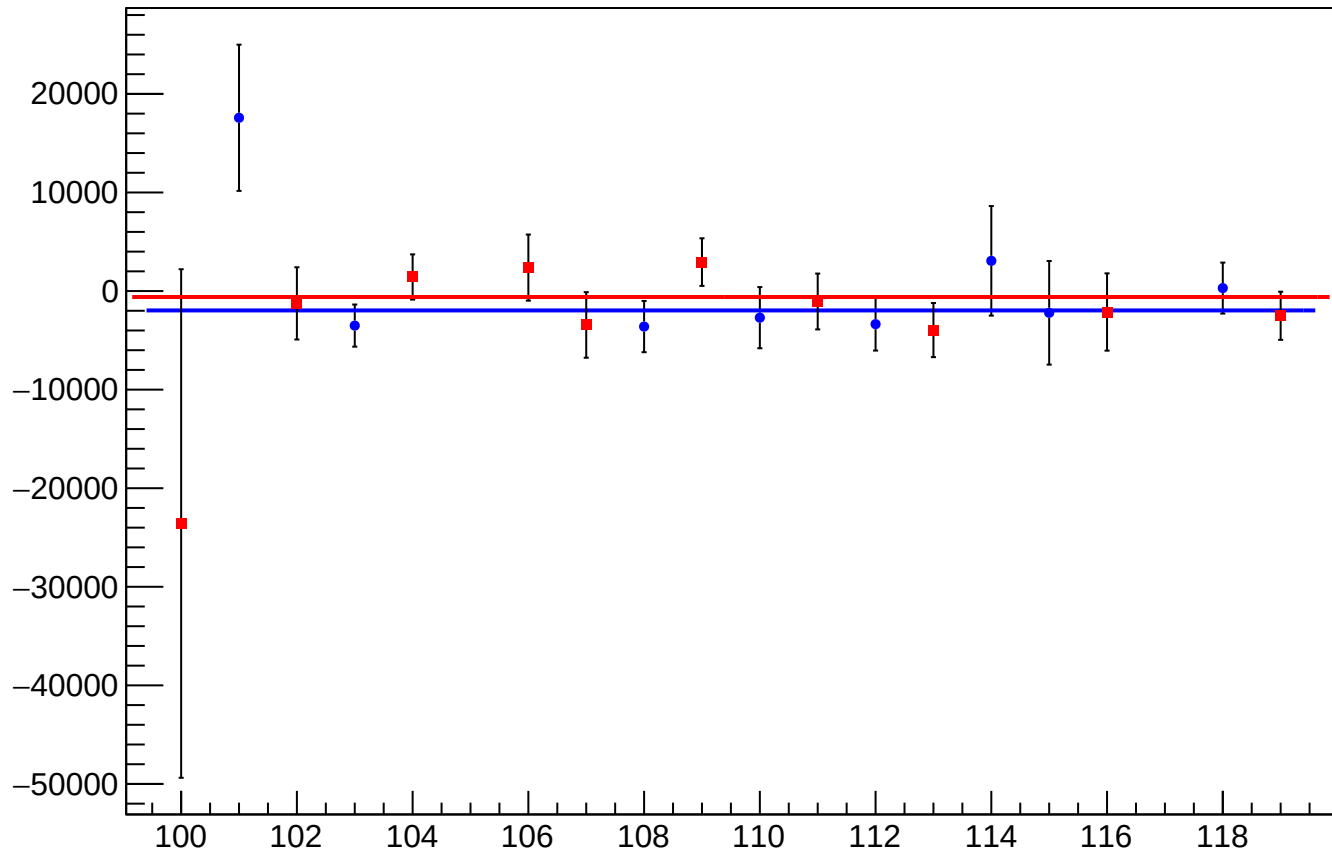
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3355.457+/-0.903  $\chi^2/\text{NDF}$ : 994664.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_atr\_dd\_mean vs Slug



Right In: -1966.133+/-1086.913  $\chi^2$ /NDF: 9.8/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -602.659+/-950.196  $\chi^2$ /NDF: 7.6/9

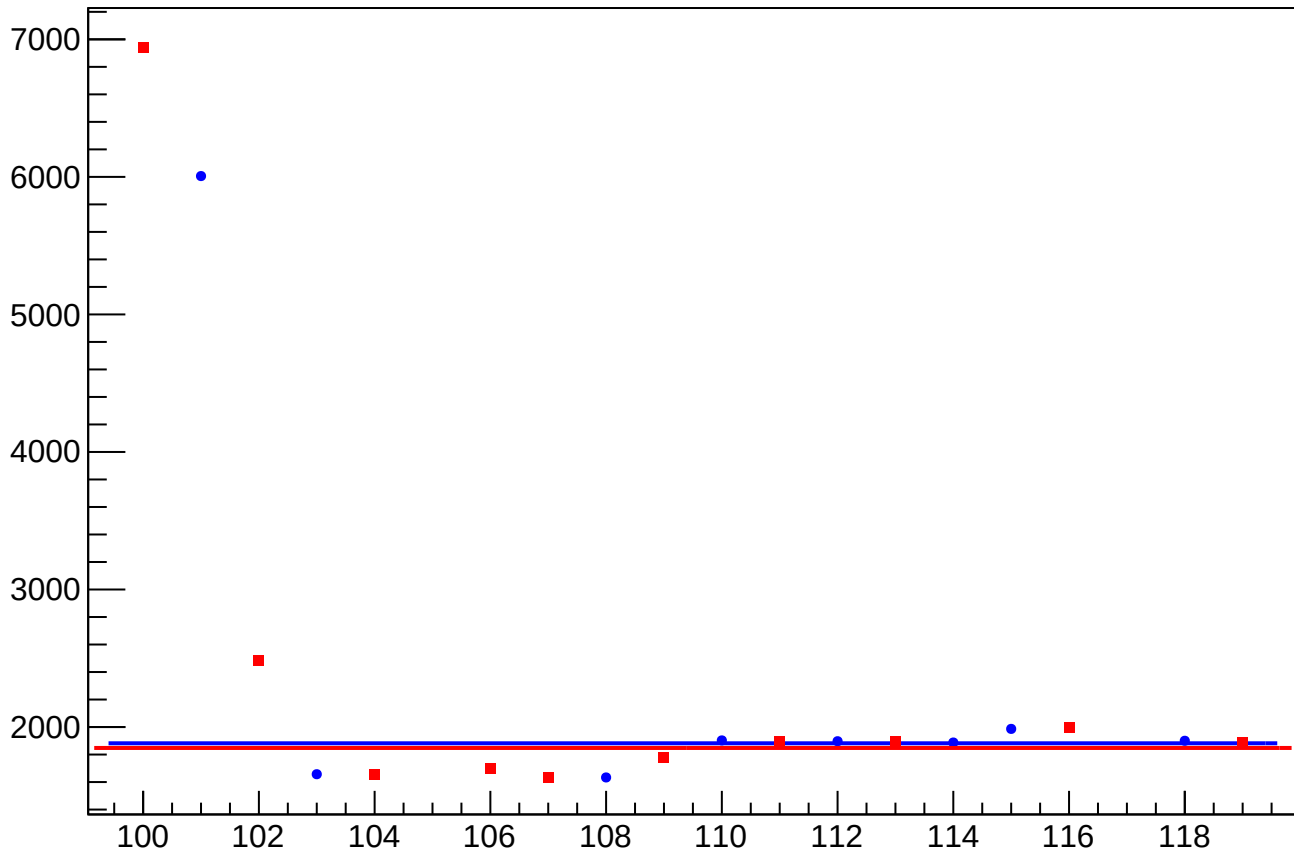
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1193.299+/-715.373  $\chi^2$ /NDF: 18.2/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atr\_dd\_rms vs Slug



Right In: 1881.818 $\pm$ 0.769  $\chi^2$ /NDF: 659937.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1847.905 $\pm$ 0.671  $\chi^2$ /NDF: 170976.0/9

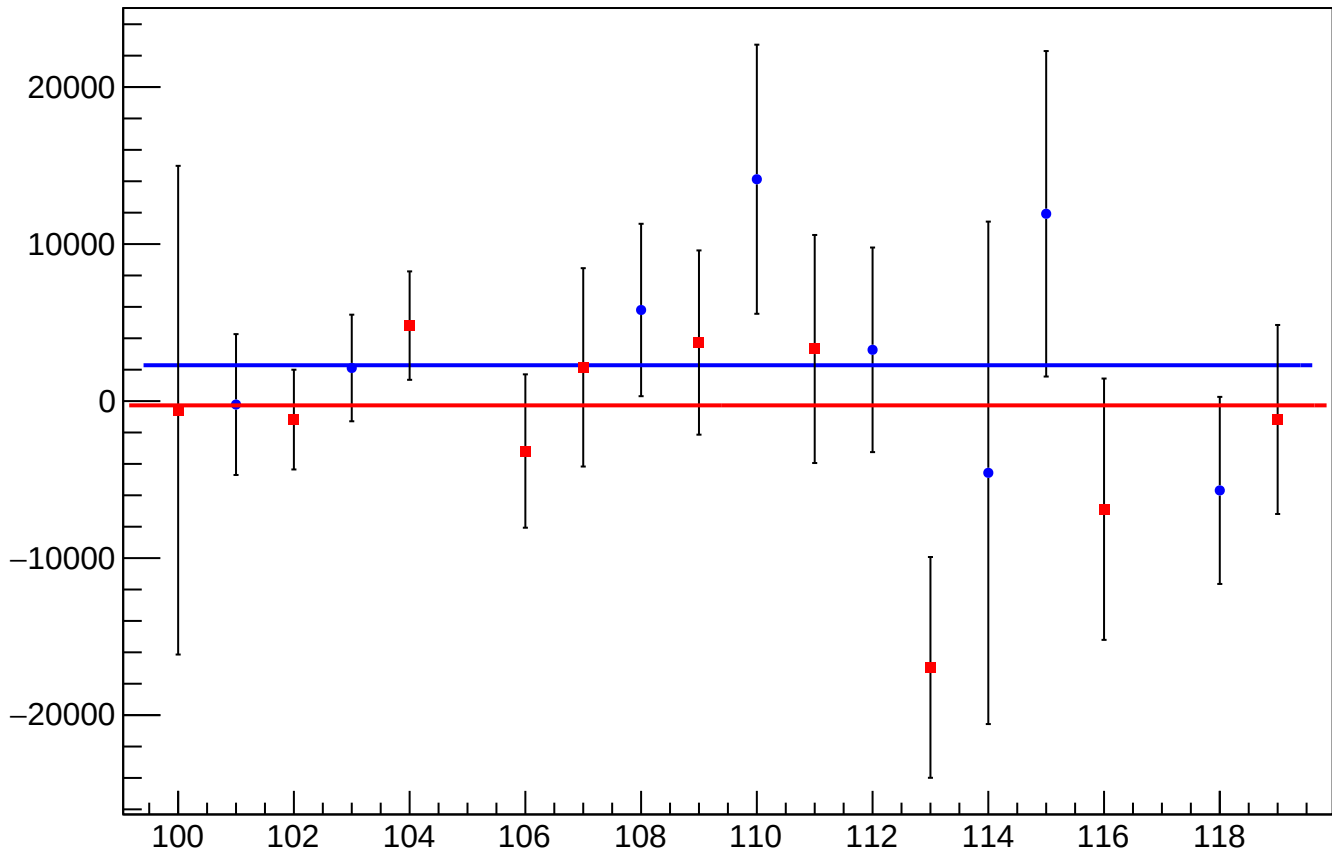
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1862.564 $\pm$ 0.505  $\chi^2$ /NDF: 832018.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 2283.257+/-2007.085  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -271.987+/-1656.483  $\chi^2/\text{NDF}$ : 9.7/9

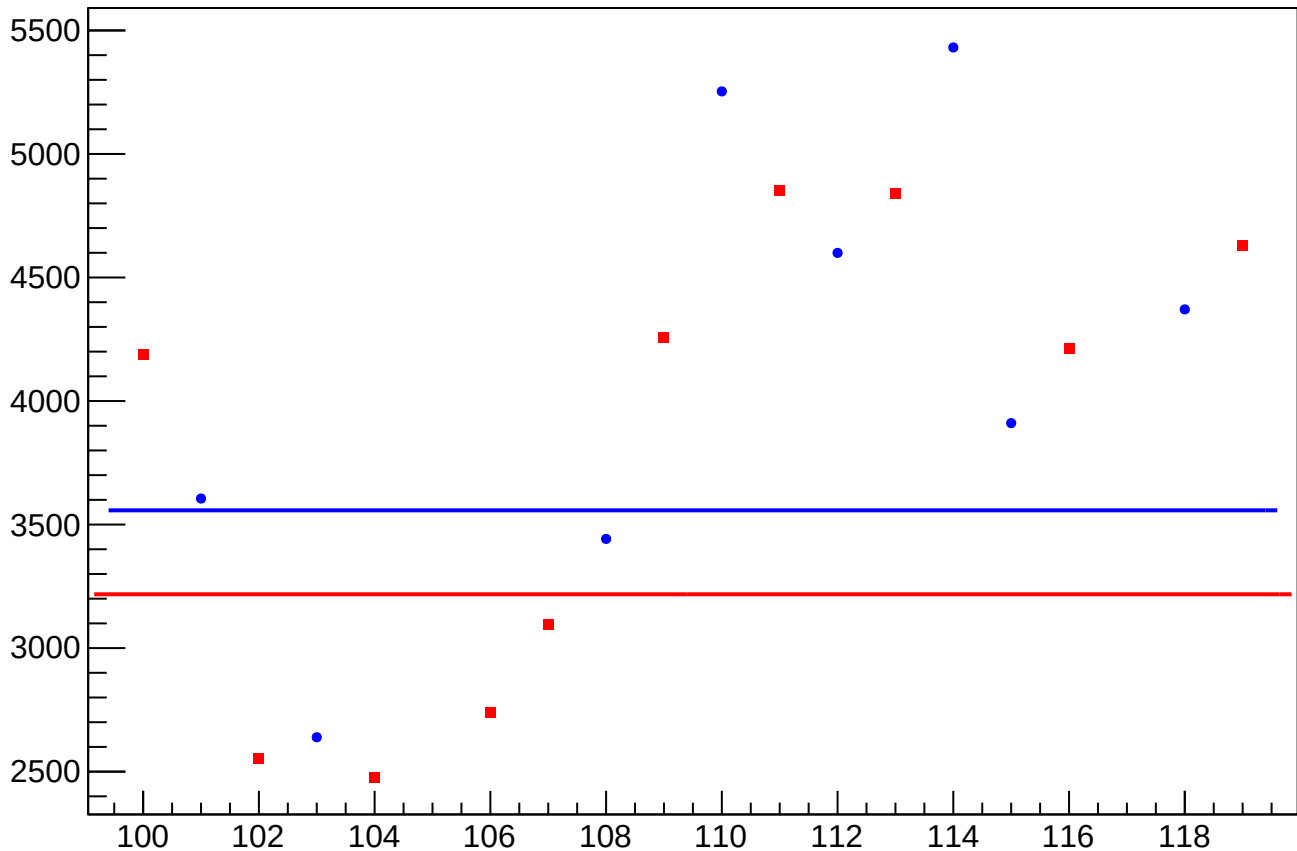
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 763.319+/-1277.567  $\chi^2/\text{NDF}$ : 16.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 3557.574+/-1.419  $\chi^2/\text{NDF}$ : 344010.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3217.781+/-1.171  $\chi^2/\text{NDF}$ : 616550.2/9

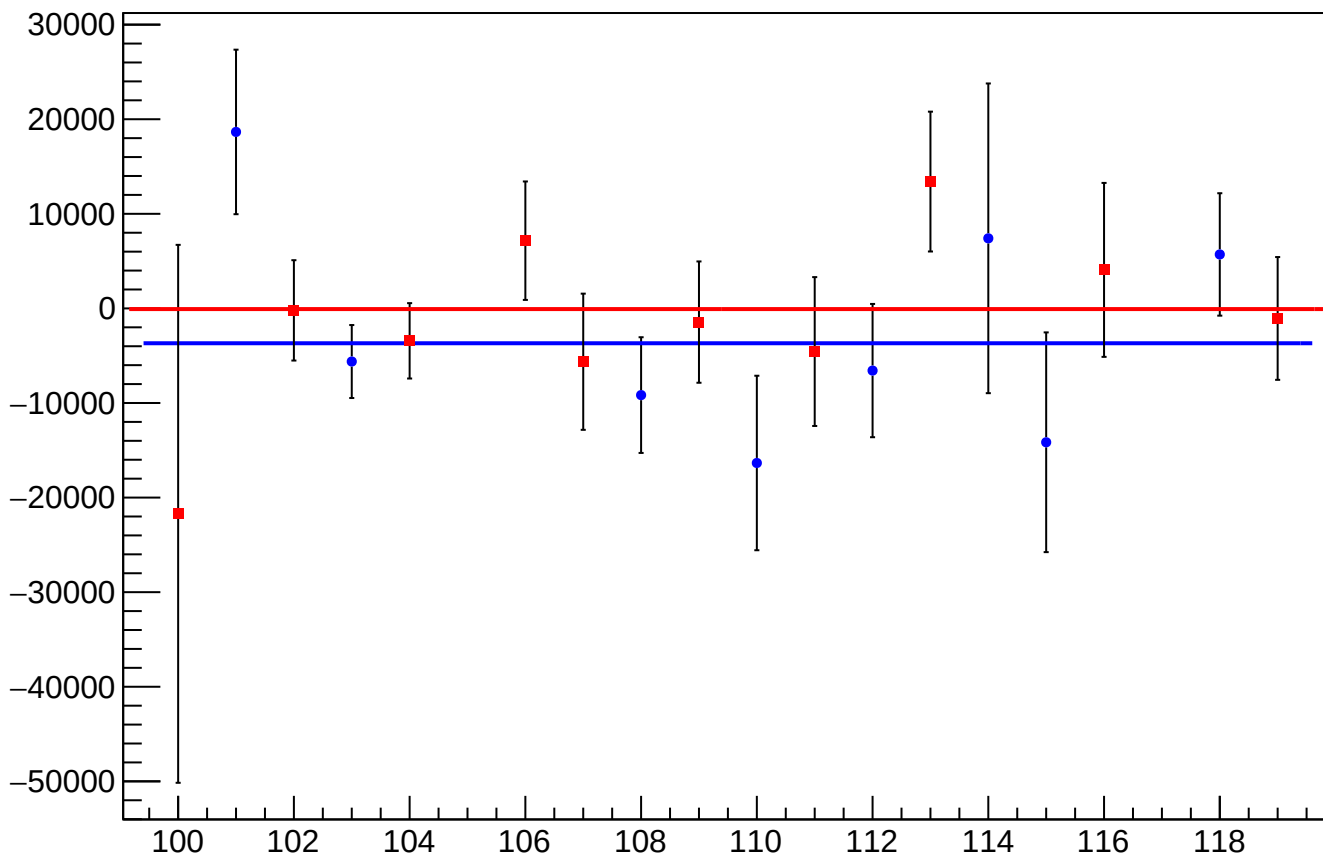
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3355.455+/-0.903  $\chi^2/\text{NDF}$ : 994657.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_mean vs Slug



Right In: -3683.761+/-2396.867  $\chi^2/\text{NDF}$ : 13.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -70.547+/-2045.937  $\chi^2/\text{NDF}$ : 7.1/9

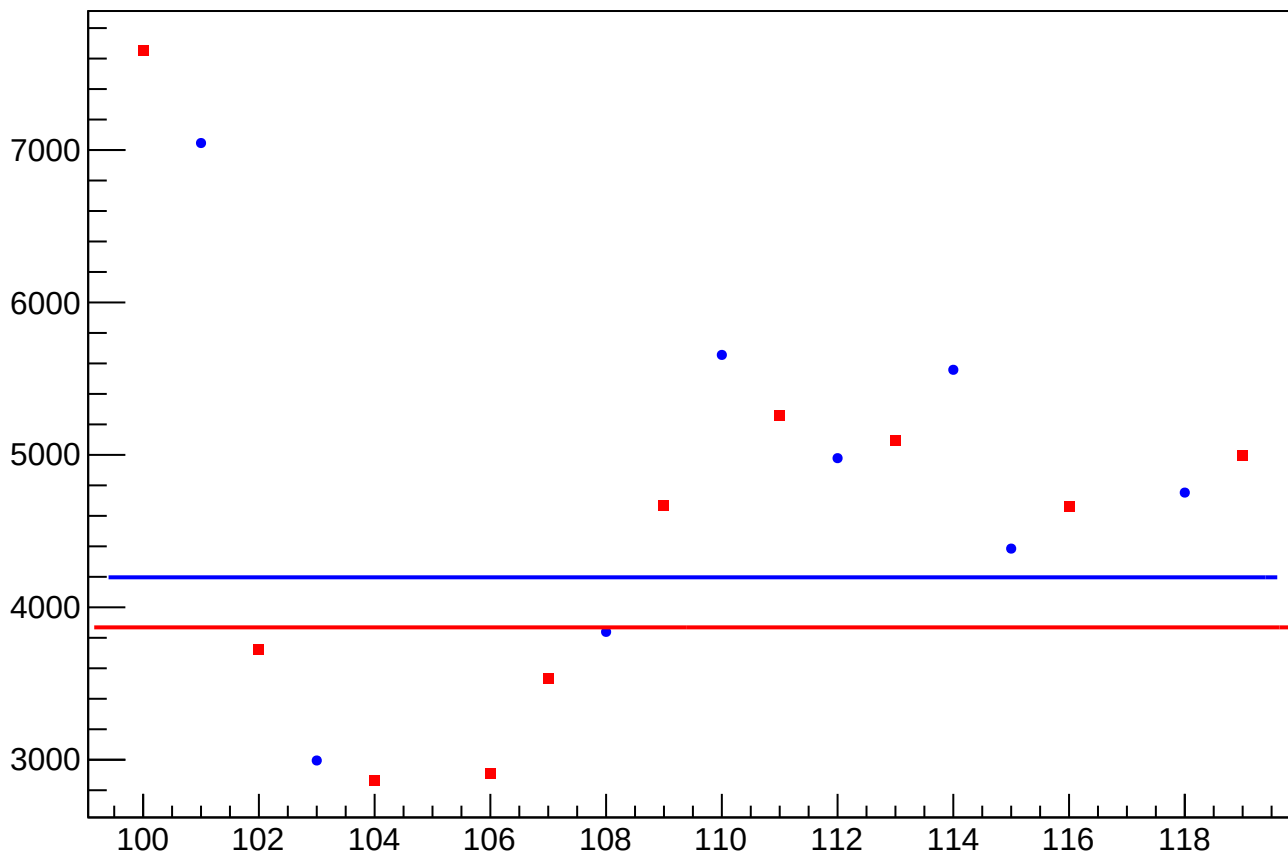
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1593.521+/-1556.121  $\chi^2/\text{NDF}$ : 21.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_rms vs Slug



Right In: 4196.813+/-1.695  $\chi^2/\text{NDF}$ : 519332.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3868.479+/-1.428  $\chi^2/\text{NDF}$ : 450661.0/9

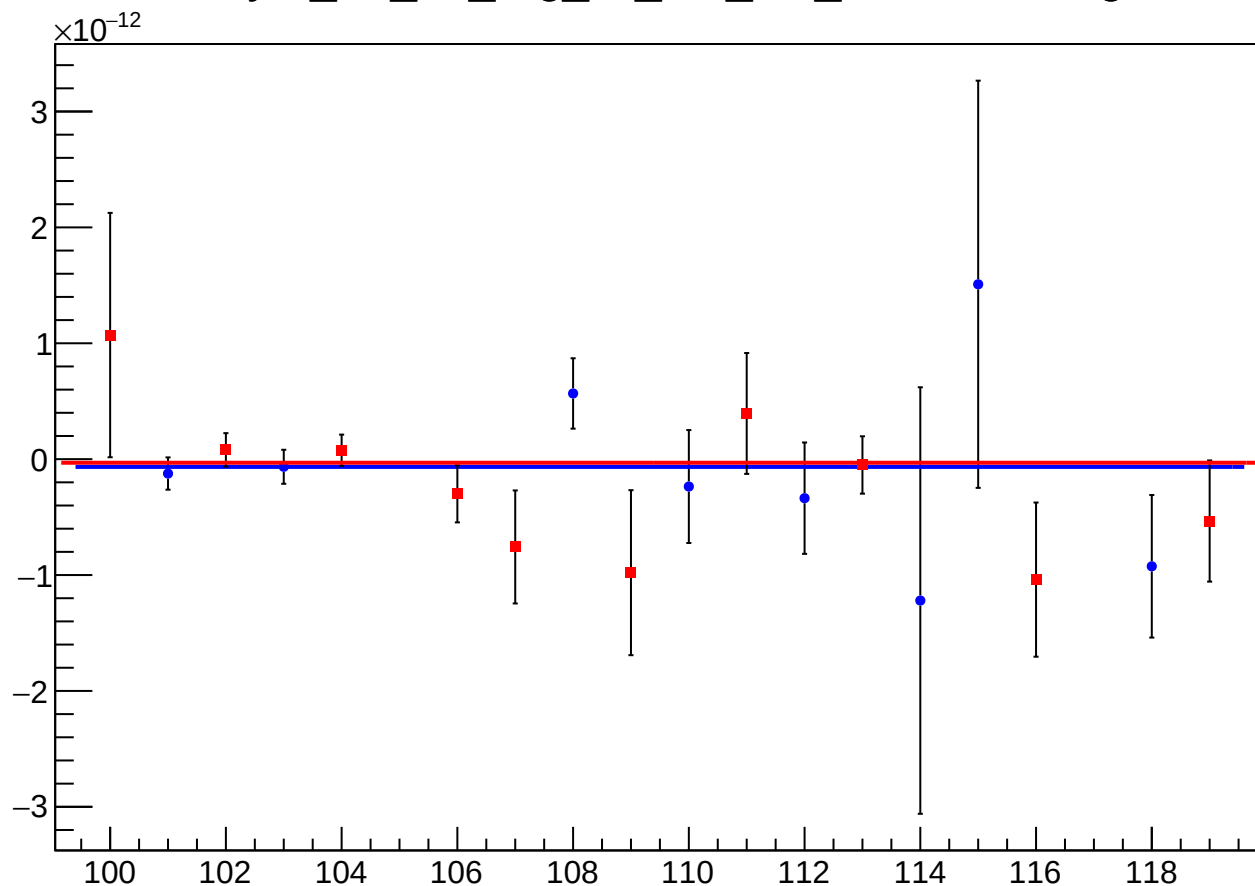
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4004.801+/-1.092  $\chi^2/\text{NDF}$ : 991941.1/17

- 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  $\chi^2$ /NDF: 8.1/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 11.4/9

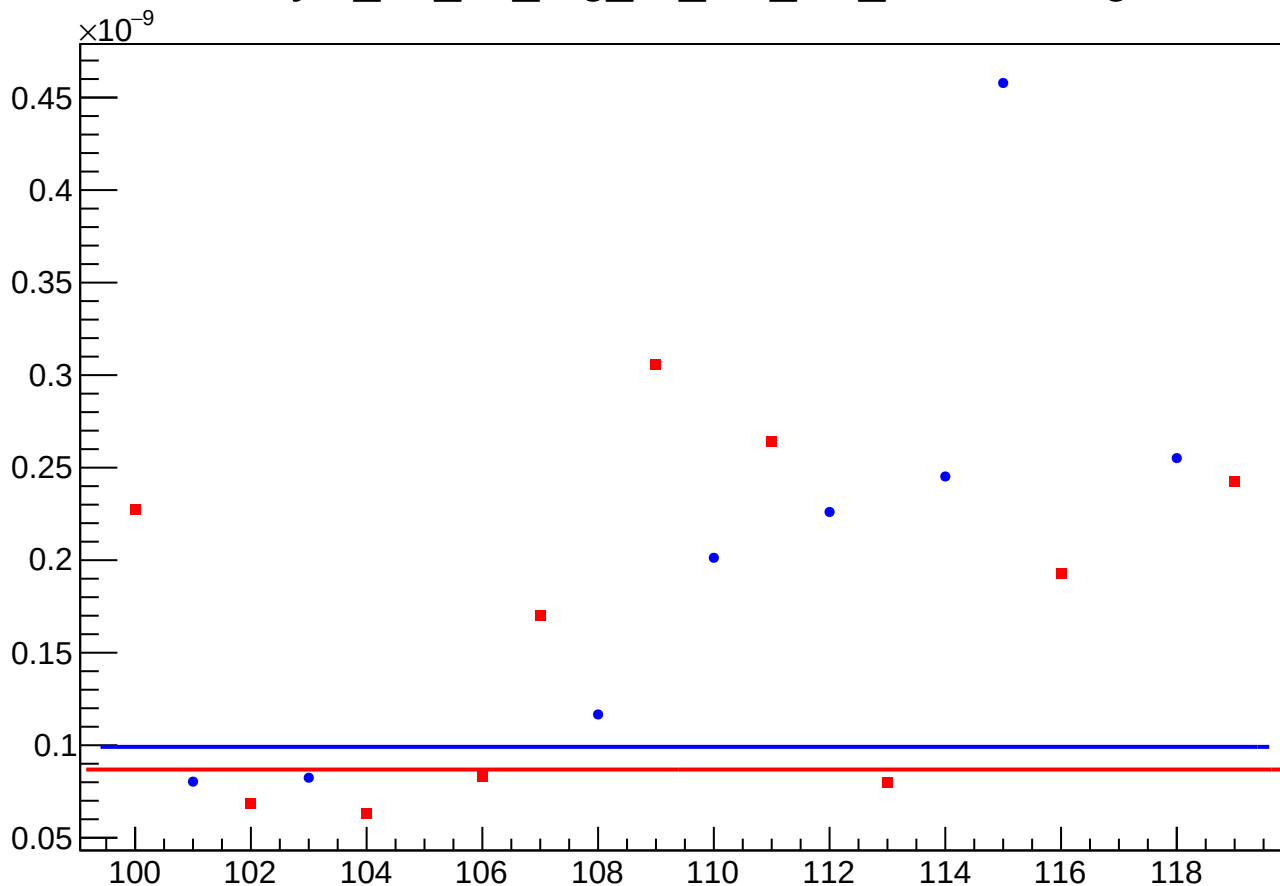
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 19.6/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 521041.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 838113.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

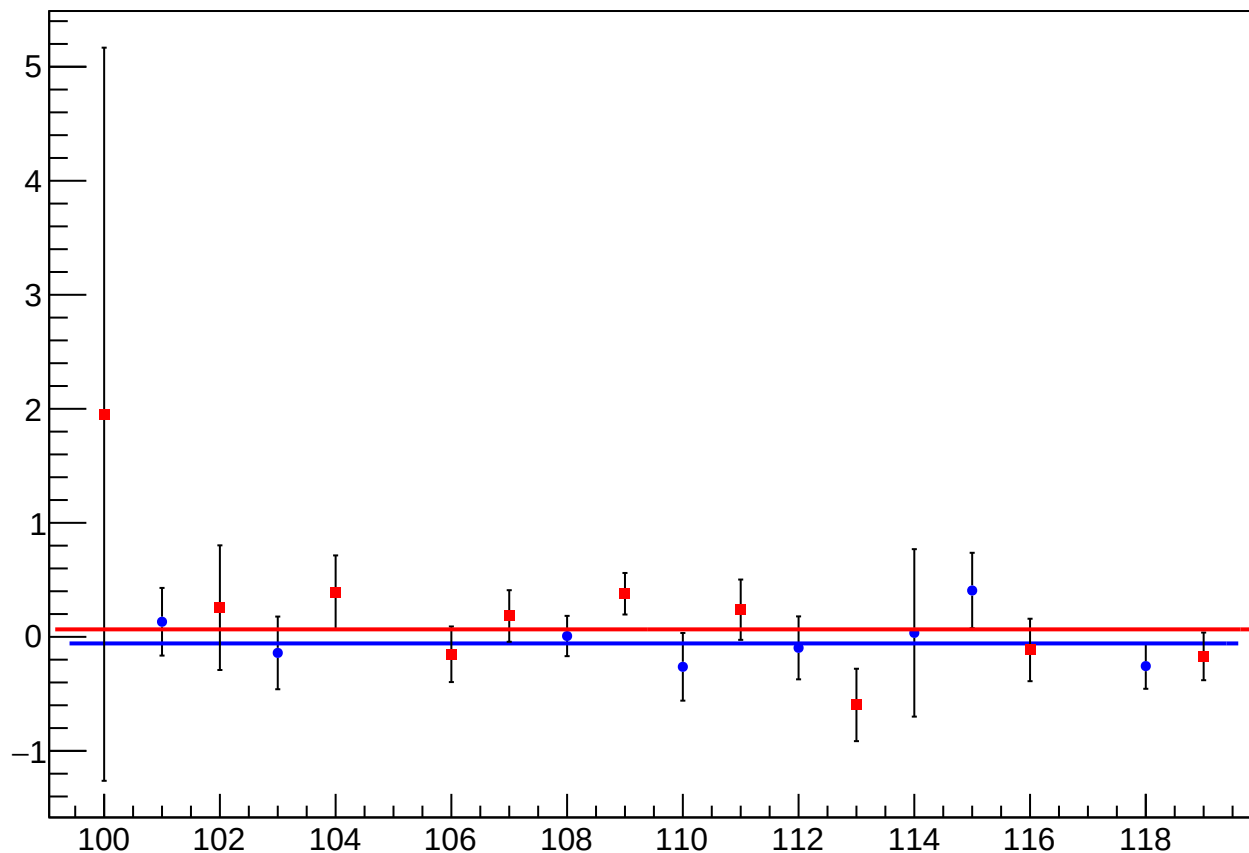
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1379362.9/17

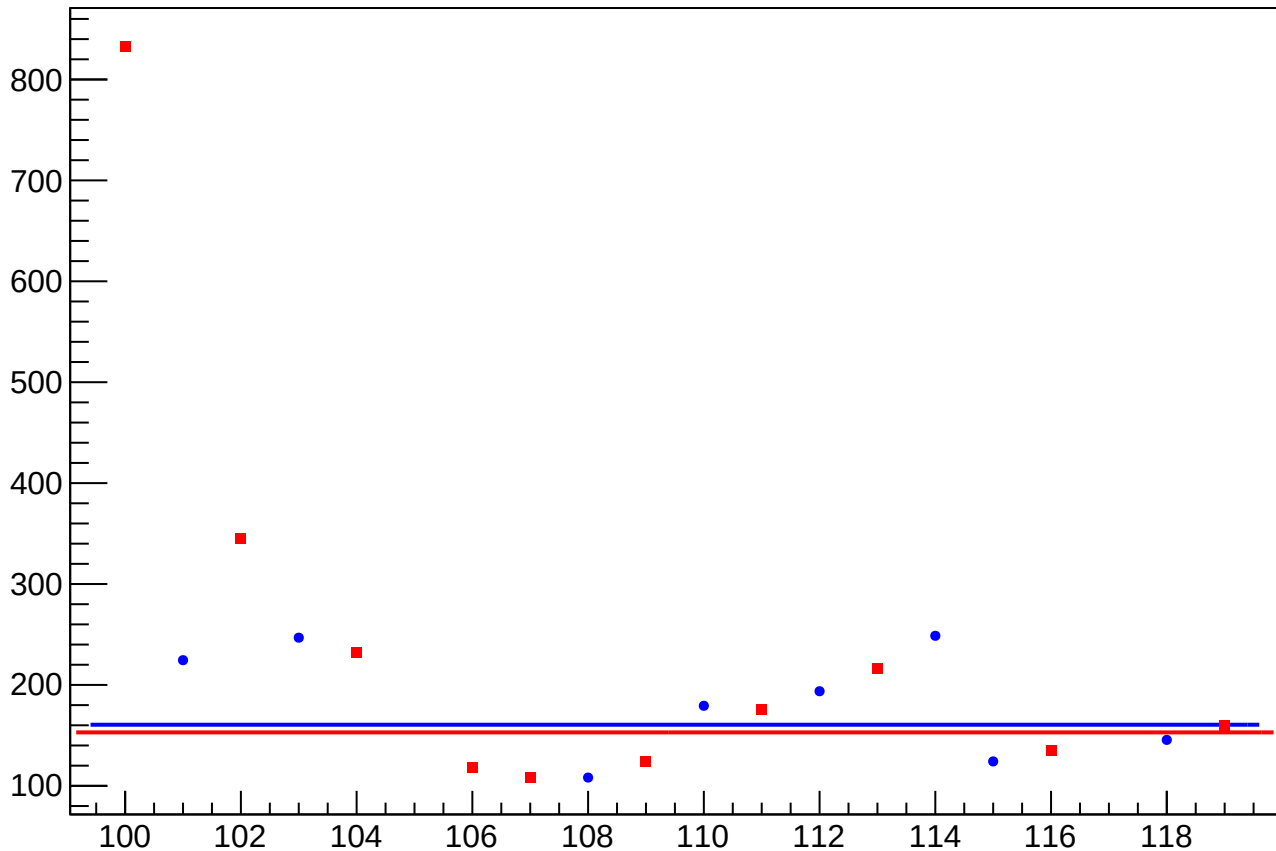
- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atr\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



# asym\_atr\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 160.560 $\pm$ 0.066  $\chi^2$ /NDF: 516539.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 152.969 $\pm$ 0.060  $\chi^2$ /NDF: 730259.4/9

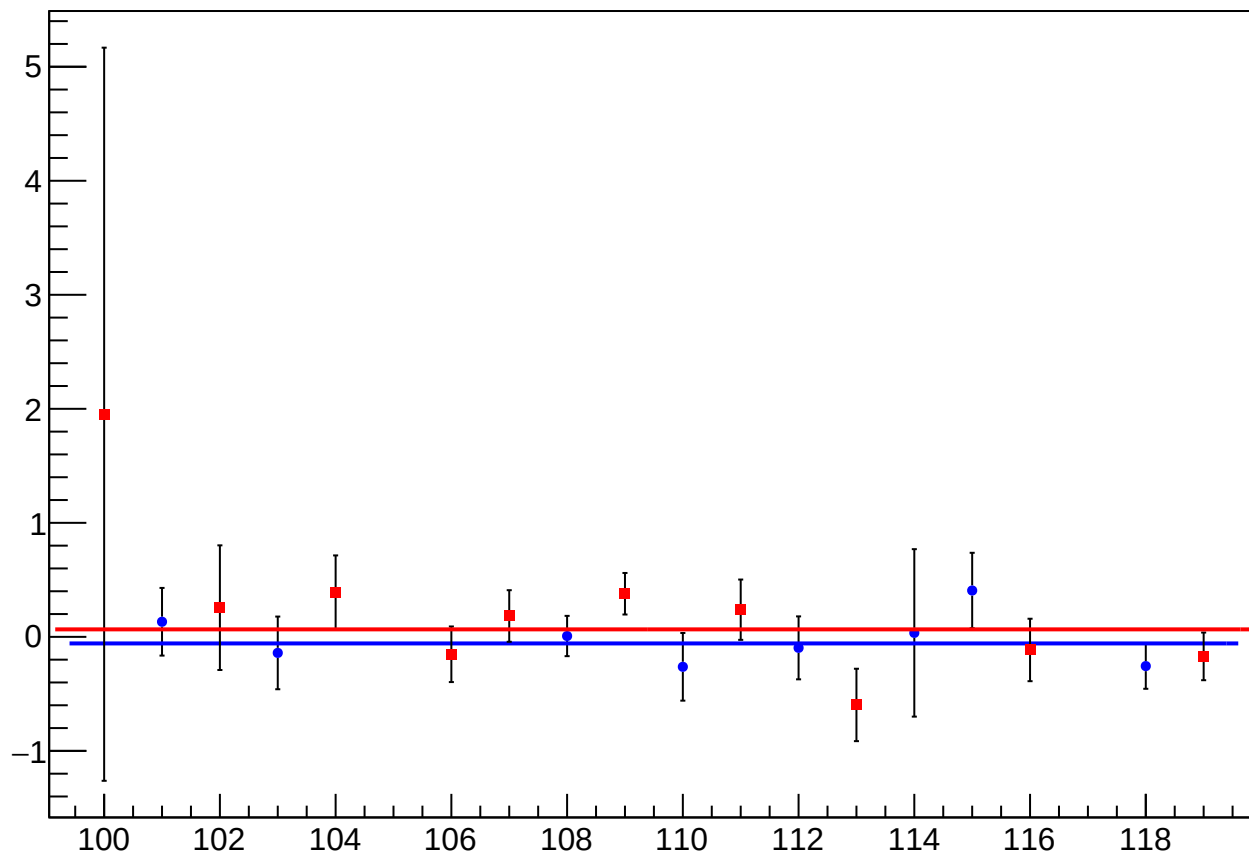
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.376 $\pm$ 0.044  $\chi^2$ /NDF: 1254035.2/17

- 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:  $-0.058 \pm 0.094$   $\chi^2/\text{NDF}$ : 4.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.066 \pm 0.085$   $\chi^2/\text{NDF}$ : 12.0/9

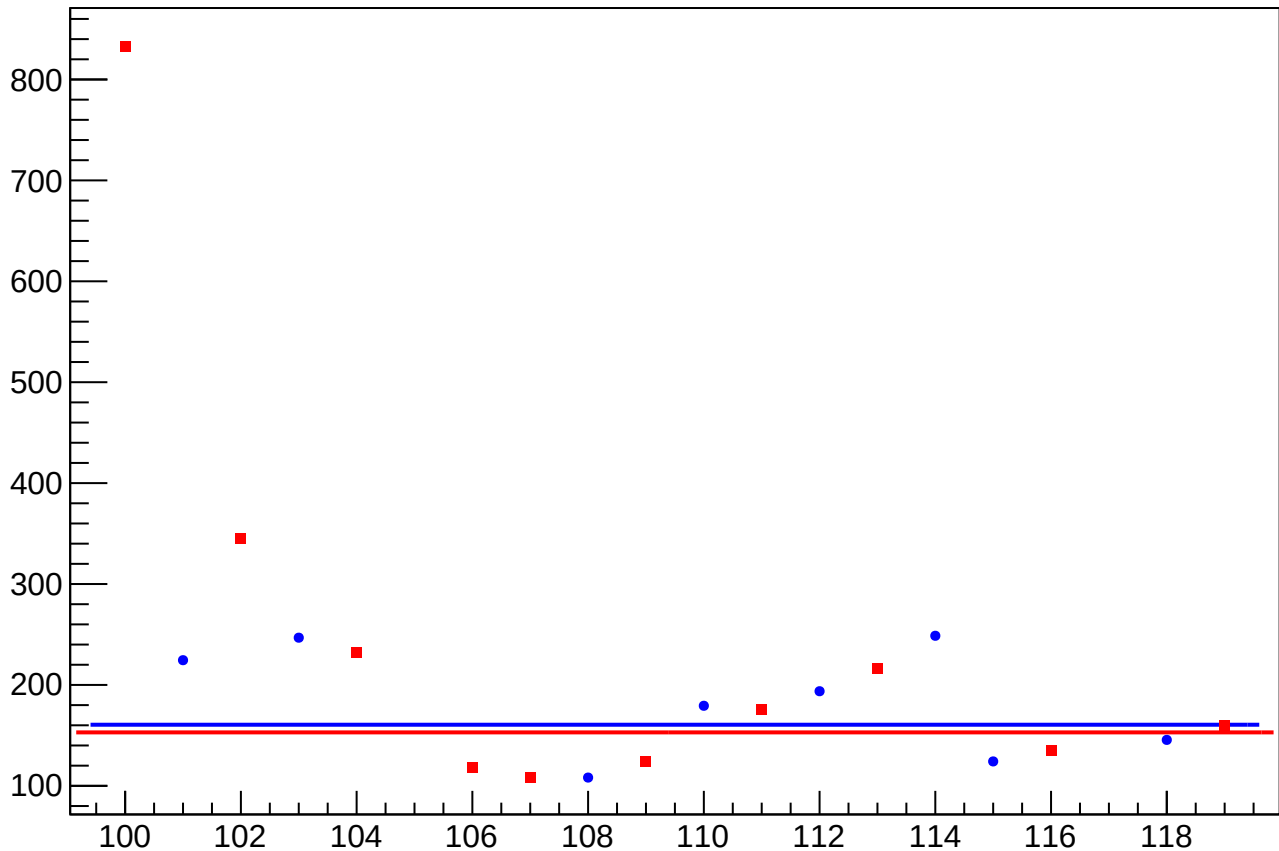
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.010 \pm 0.063$   $\chi^2/\text{NDF}$ : 17.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 160.560 $\pm$ 0.066  $\chi^2$ /NDF: 516539.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 152.969 $\pm$ 0.060  $\chi^2$ /NDF: 730259.4/9

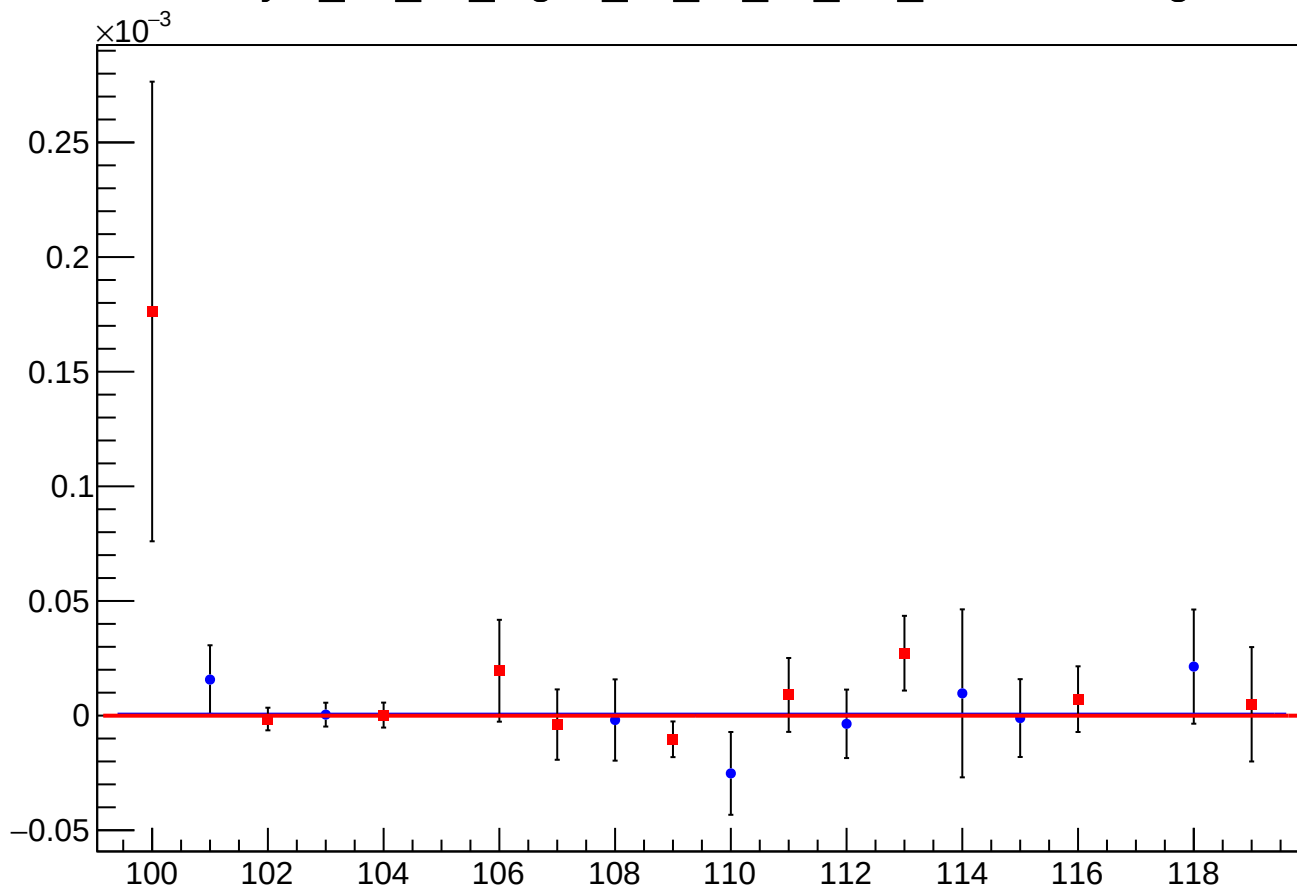
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.376 $\pm$ 0.044  $\chi^2$ /NDF: 1254035.2/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 3.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.2/9

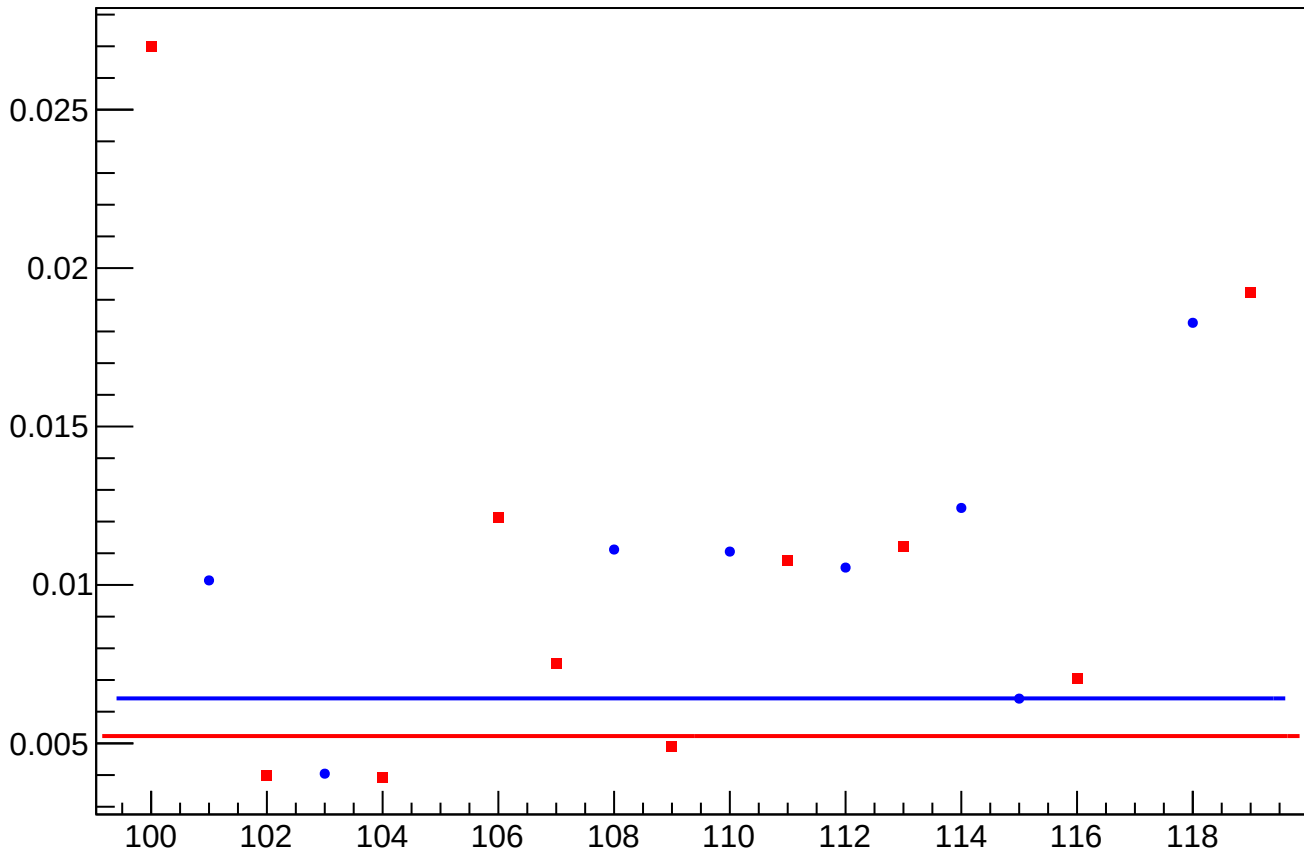
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1473227.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1747838.3/9

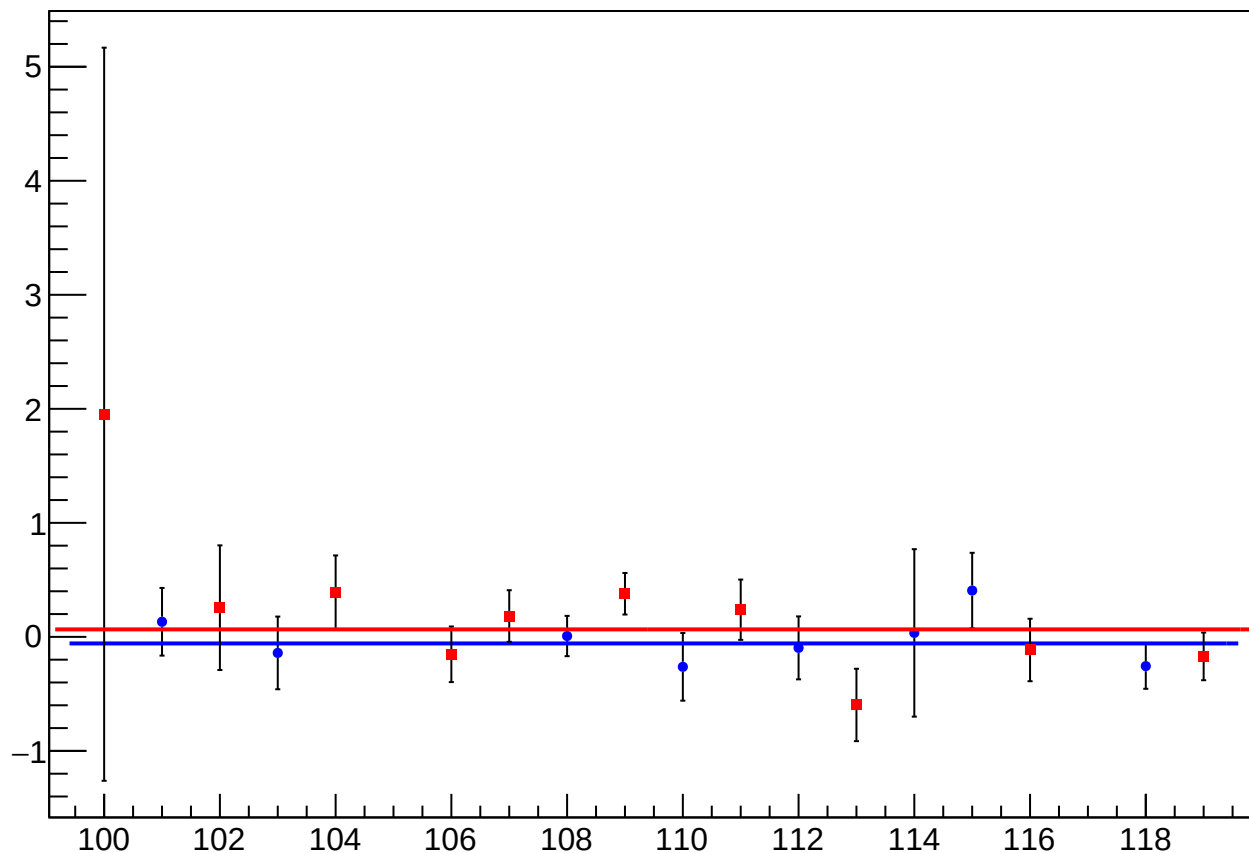
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 3329020.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.058 $\pm$ 0.094  $\chi^2$ /NDF: 4.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.066 $\pm$ 0.085  $\chi^2$ /NDF: 12.0/9

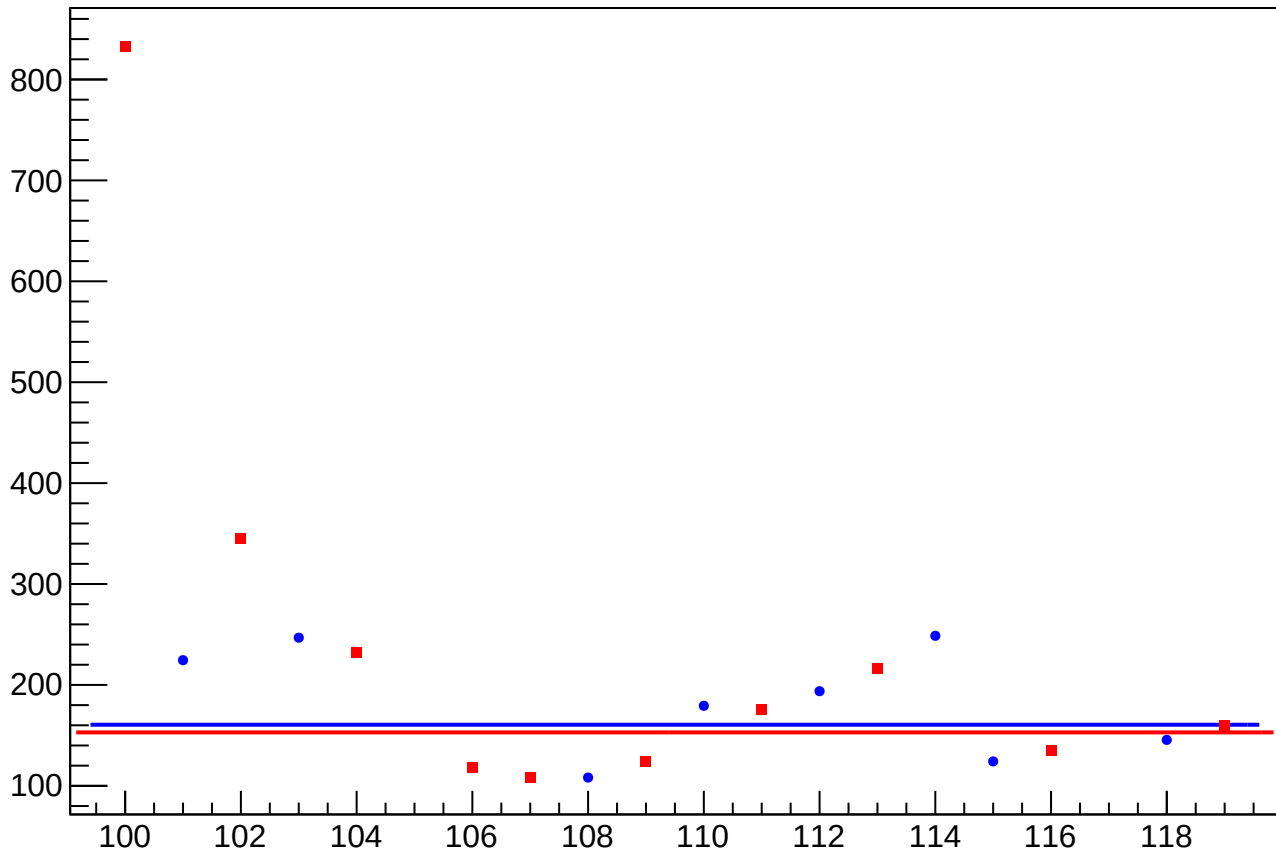
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.063  $\chi^2$ /NDF: 17.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 160.557+/-0.066  $\chi^2/\text{NDF}$ : 516585.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 152.970+/-0.060  $\chi^2/\text{NDF}$ : 730263.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

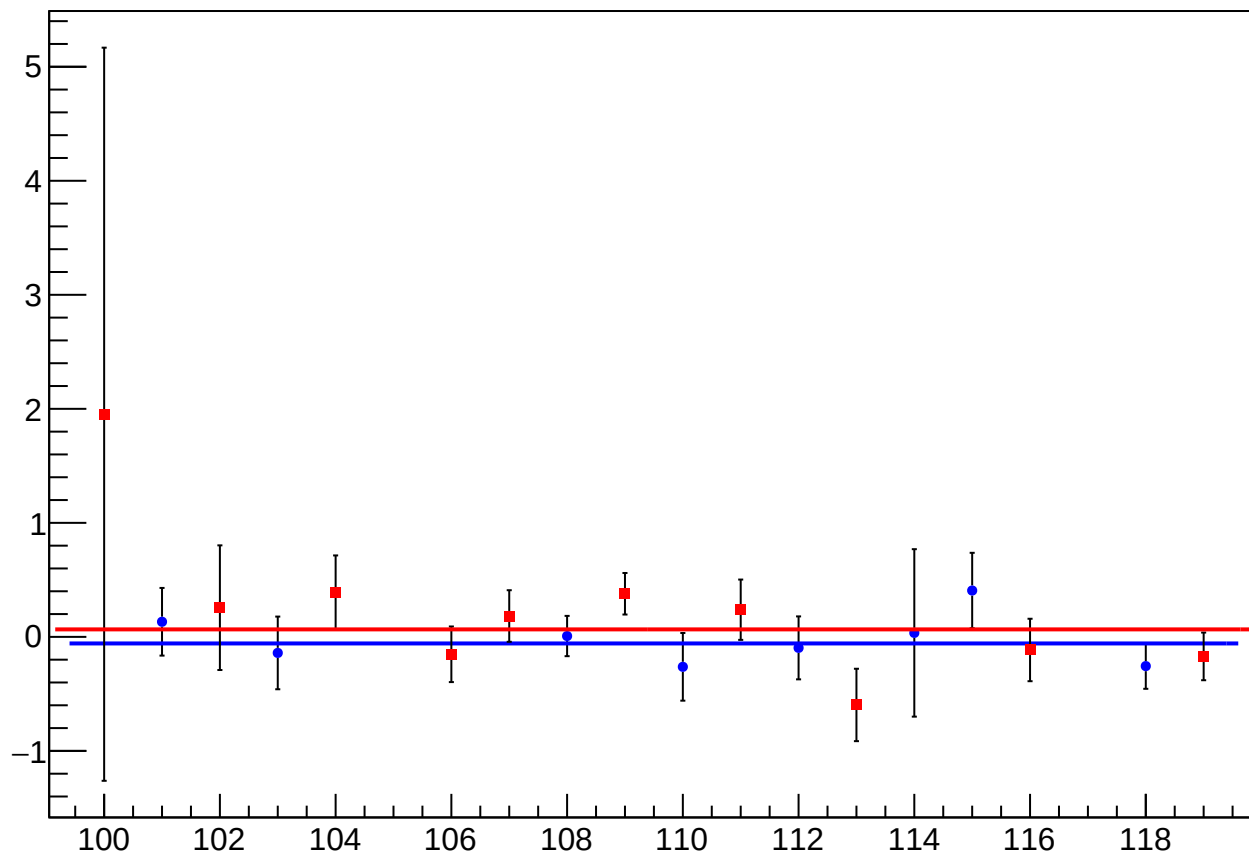
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 156.375+/-0.044  $\chi^2/\text{NDF}$ : 1254077.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atr\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.058 \pm 0.094$   $\chi^2/\text{NDF}$ : 4.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.066 \pm 0.085$   $\chi^2/\text{NDF}$ : 12.0/9

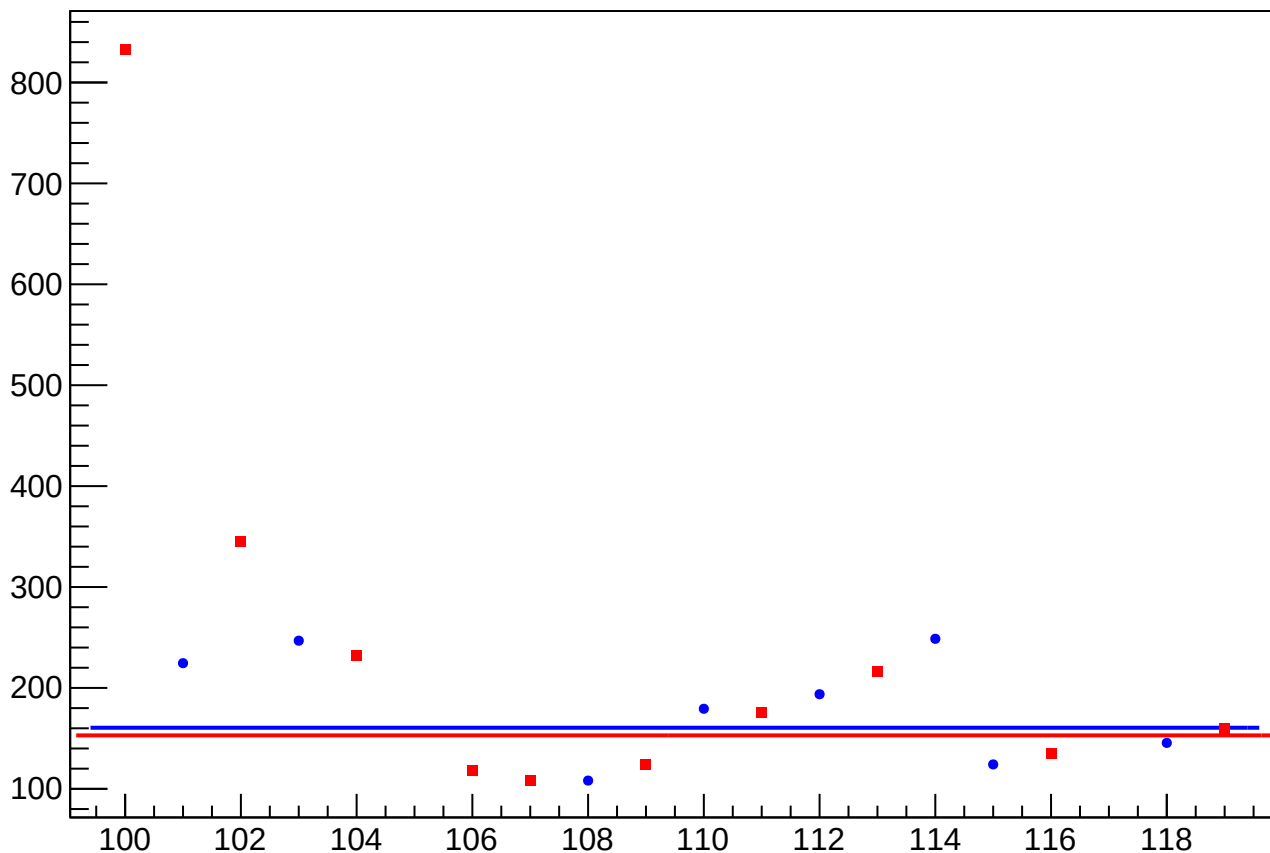
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.010 \pm 0.063$   $\chi^2/\text{NDF}$ : 17.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 160.557+/-0.066  $\chi^2/\text{NDF}$ : 516585.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 152.970+/-0.060  $\chi^2/\text{NDF}$ : 730263.2/9

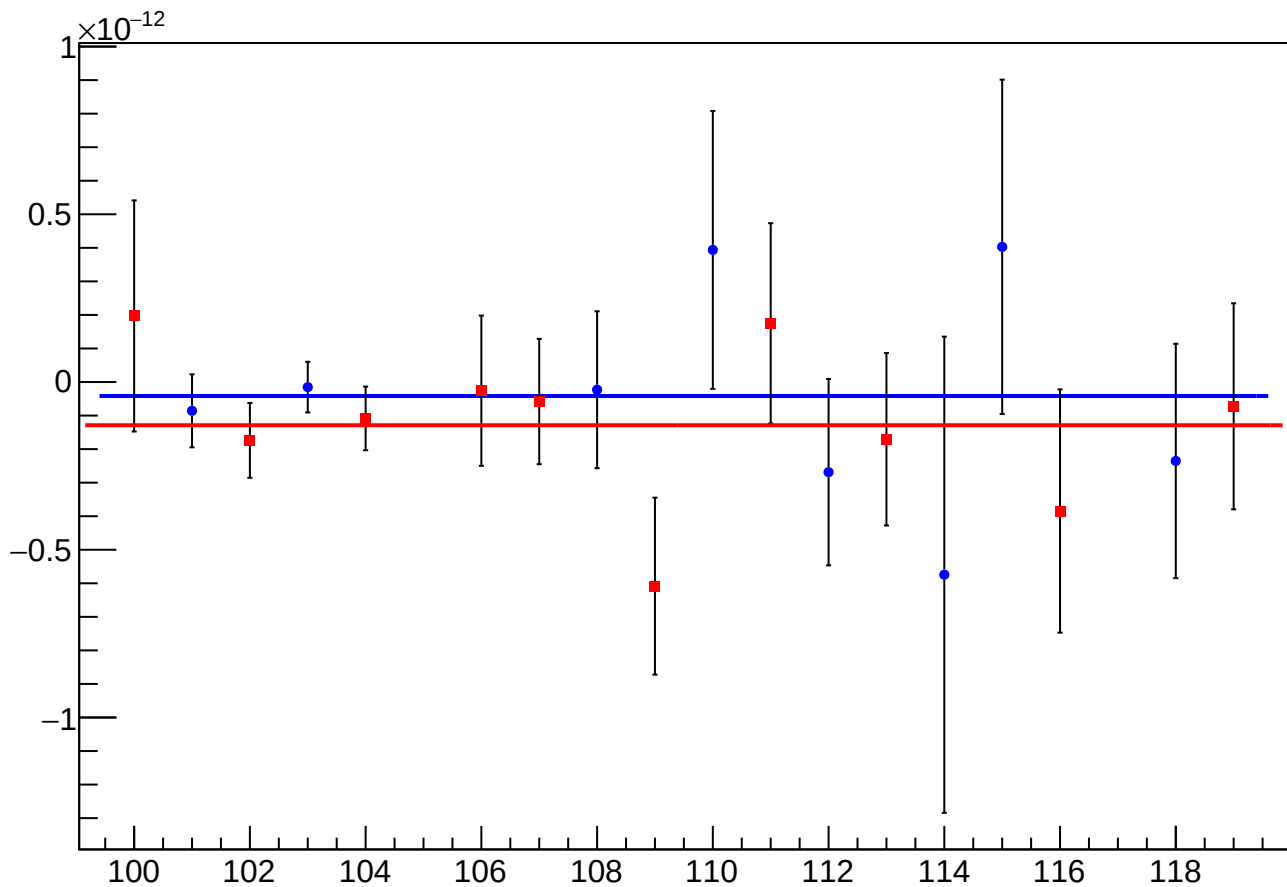
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 156.375+/-0.044  $\chi^2/\text{NDF}$ : 1254077.8/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 3.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.4/9

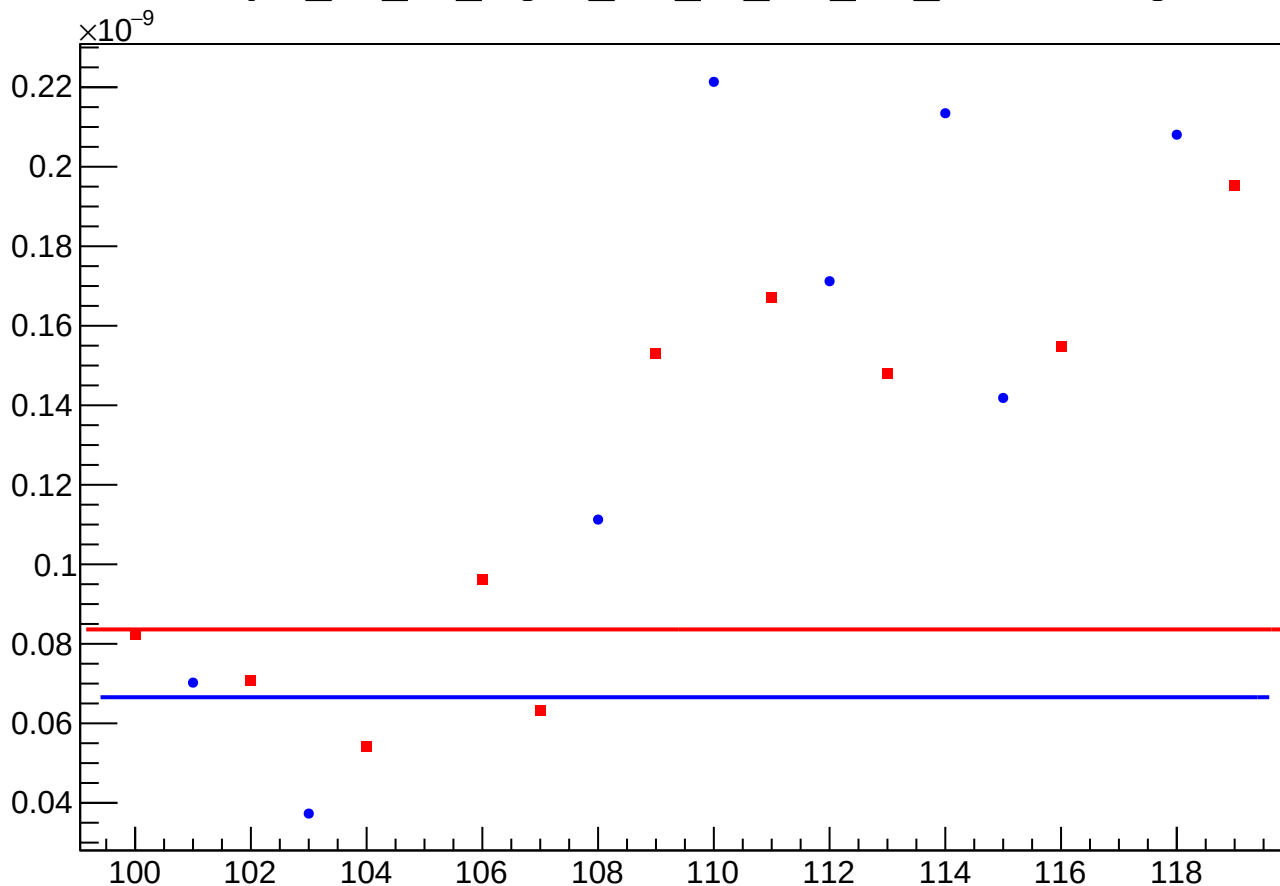
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1398709.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1009319.7/9

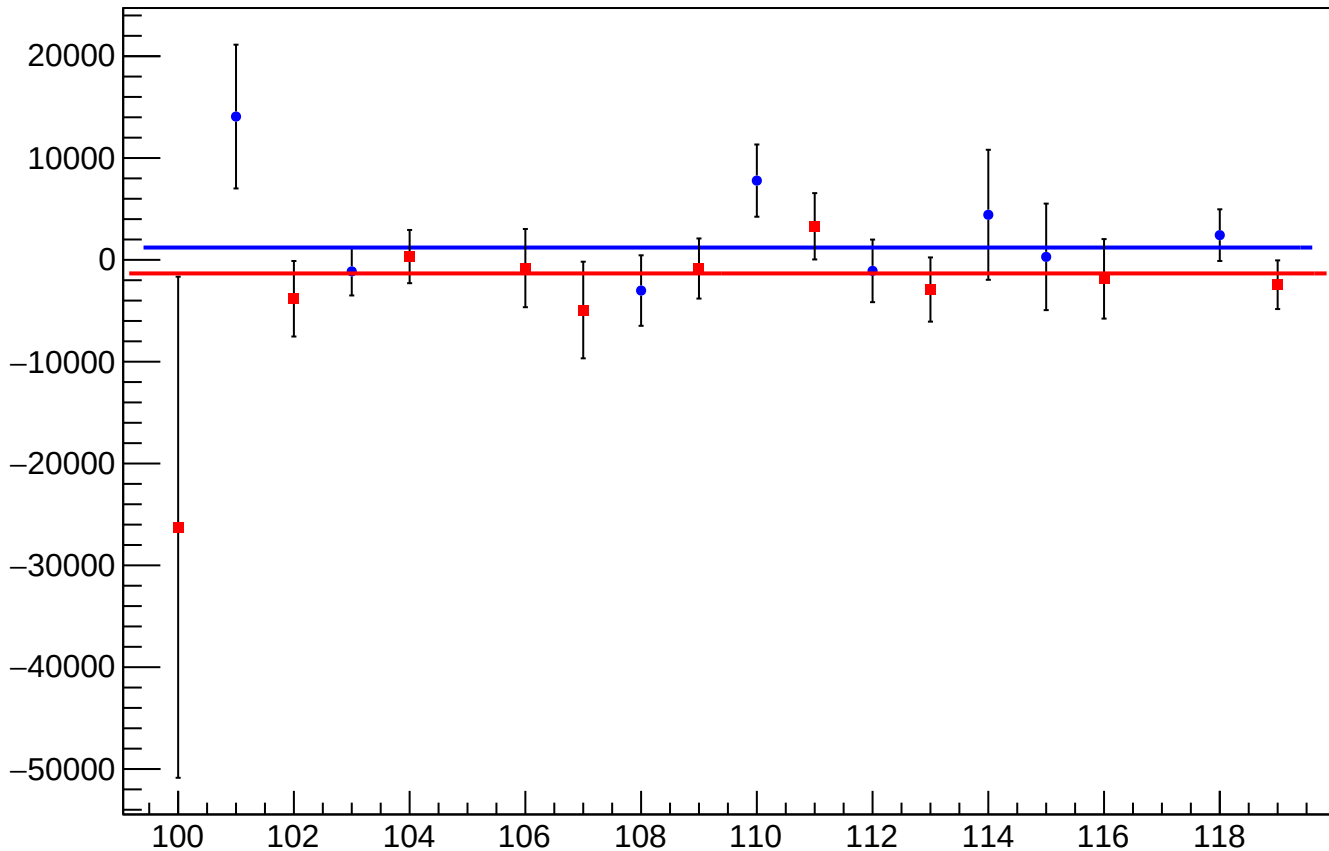
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2497997.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_mean vs Slug



Right In: 1210.201+/-1208.637  $\chi^2/\text{NDF}$ : 10.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1332.269+/-1064.020  $\chi^2/\text{NDF}$ : 5.0/9

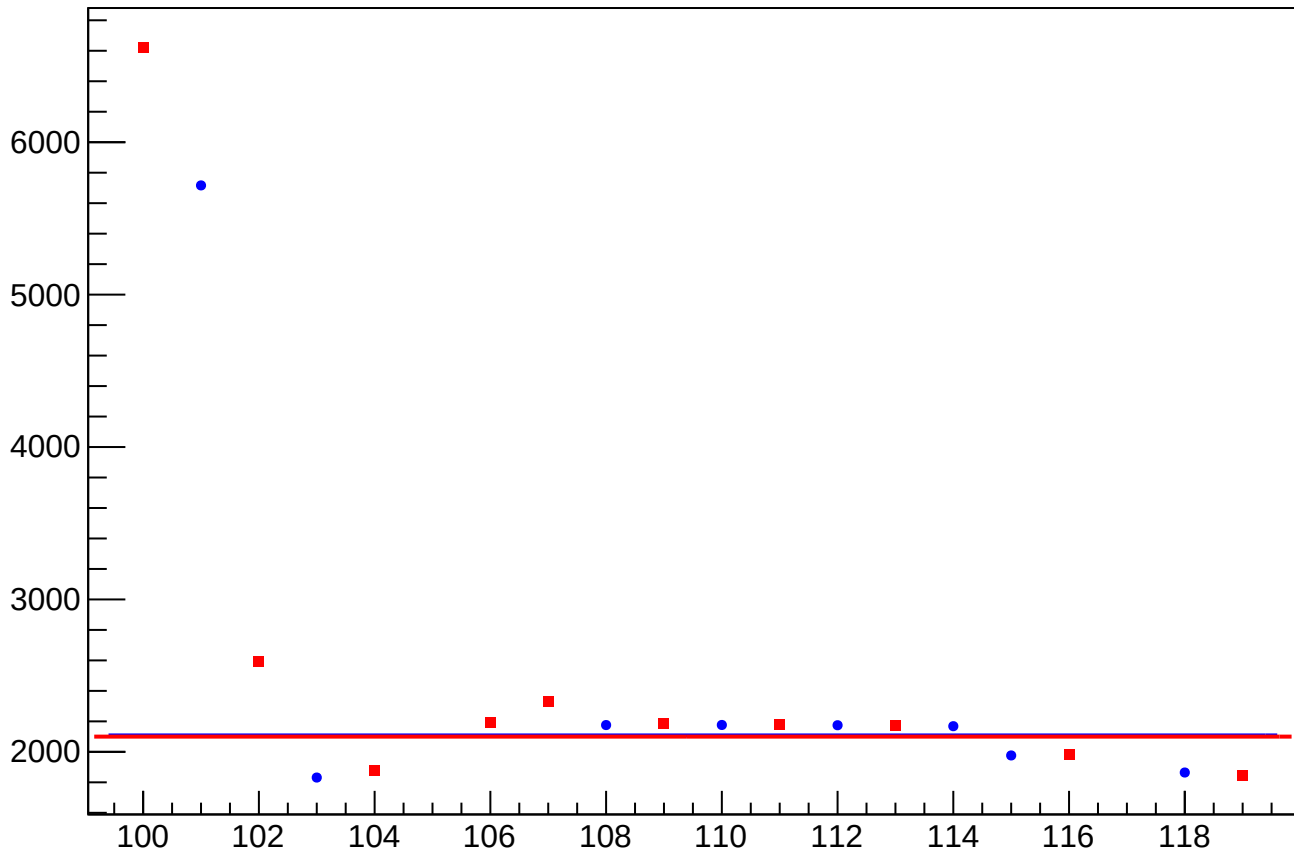
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -222.167+/-798.637  $\chi^2/\text{NDF}$ : 17.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_rms vs Slug



Right In: 2107.738 $\pm$ 0.855  $\chi^2$ /NDF: 572321.3/7

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

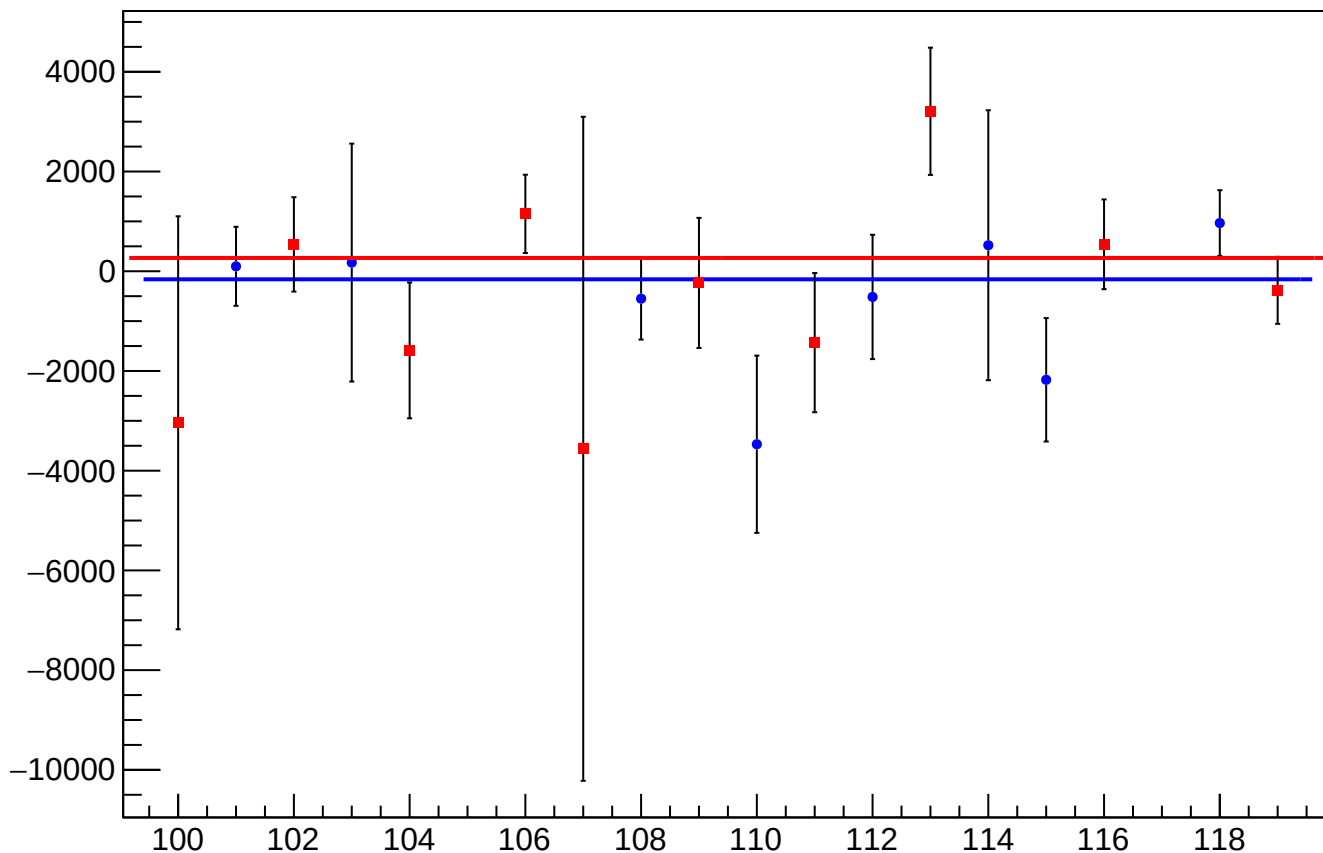
Right Out: 2099.947 $\pm$ 0.752  $\chi^2$ /NDF: 151340.1/9

All: 2103.349 $\pm$ 0.565  $\chi^2$ /NDF: 723708.2/17

- 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\_at1\_avg\_reg\_correction\_mean vs Slug



Right In: -161.770+/-369.949  $\chi^2/\text{NDF}$ : 9.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 266.698+/-342.563  $\chi^2/\text{NDF}$ : 12.1/9

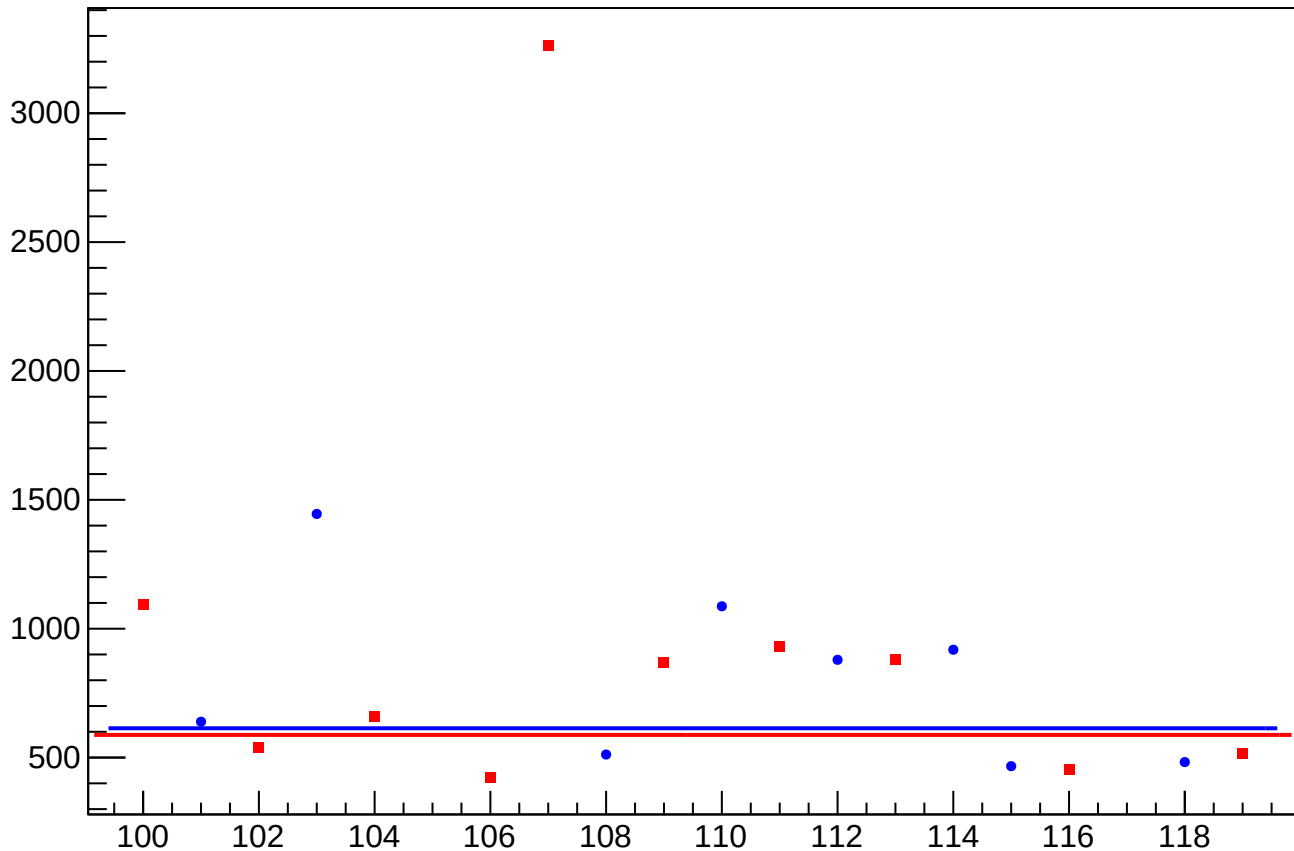
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 68.908+/-251.353  $\chi^2/\text{NDF}$ : 22.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_reg\_correction\_rms vs Slug



Right In: 613.599 $\pm$ 0.262  $\chi^2$ /NDF: 641430.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 587.921 $\pm$ 0.242  $\chi^2$ /NDF: 837677.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

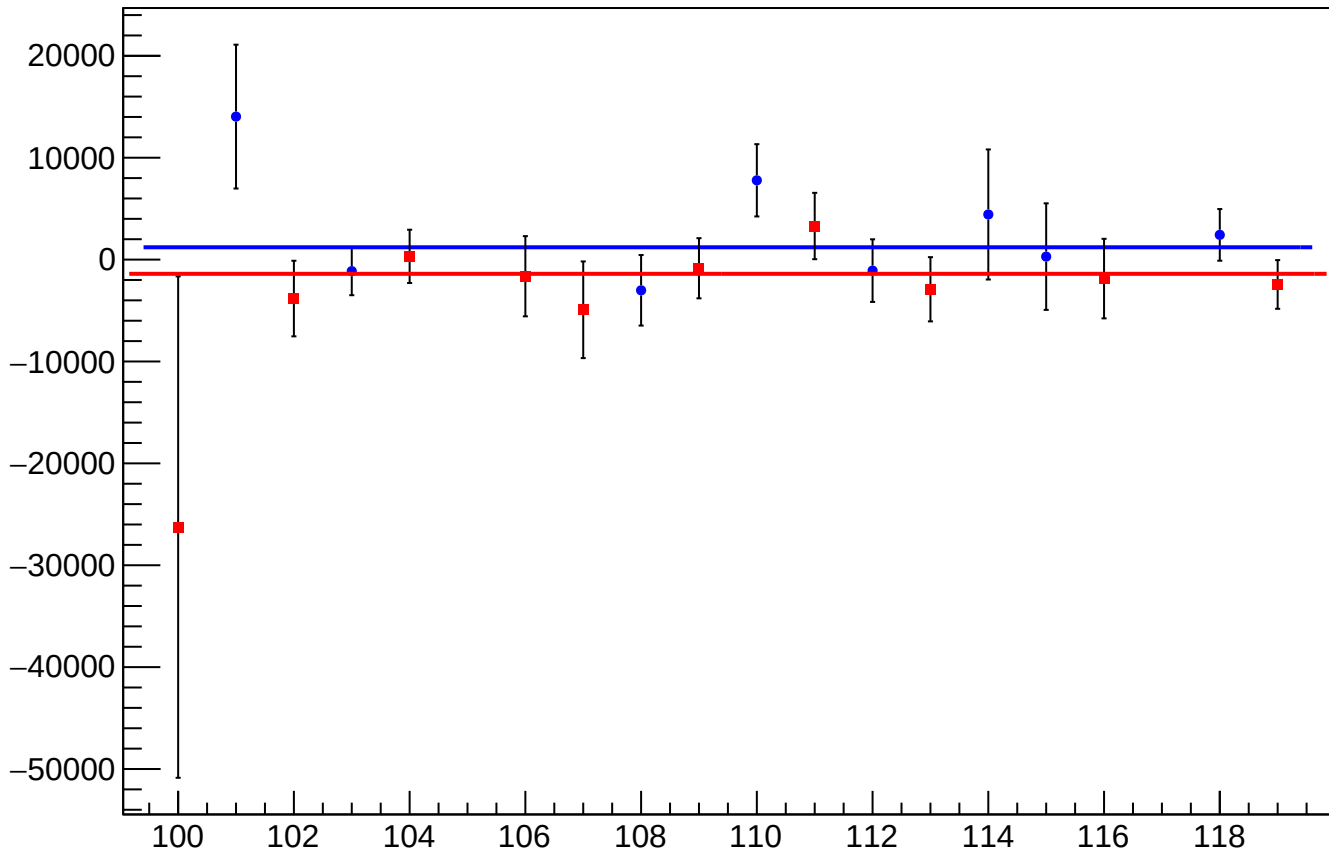
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 599.774 $\pm$ 0.178  $\chi^2$ /NDF: 1484295.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# cor\_asym\_at1\_avg\_mean vs Slug



Right In: 1209.535 $\pm$ 1208.637  $\chi^2$ /NDF: 10.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1395.177 $\pm$ 1065.977  $\chi^2$ /NDF: 5.0/9

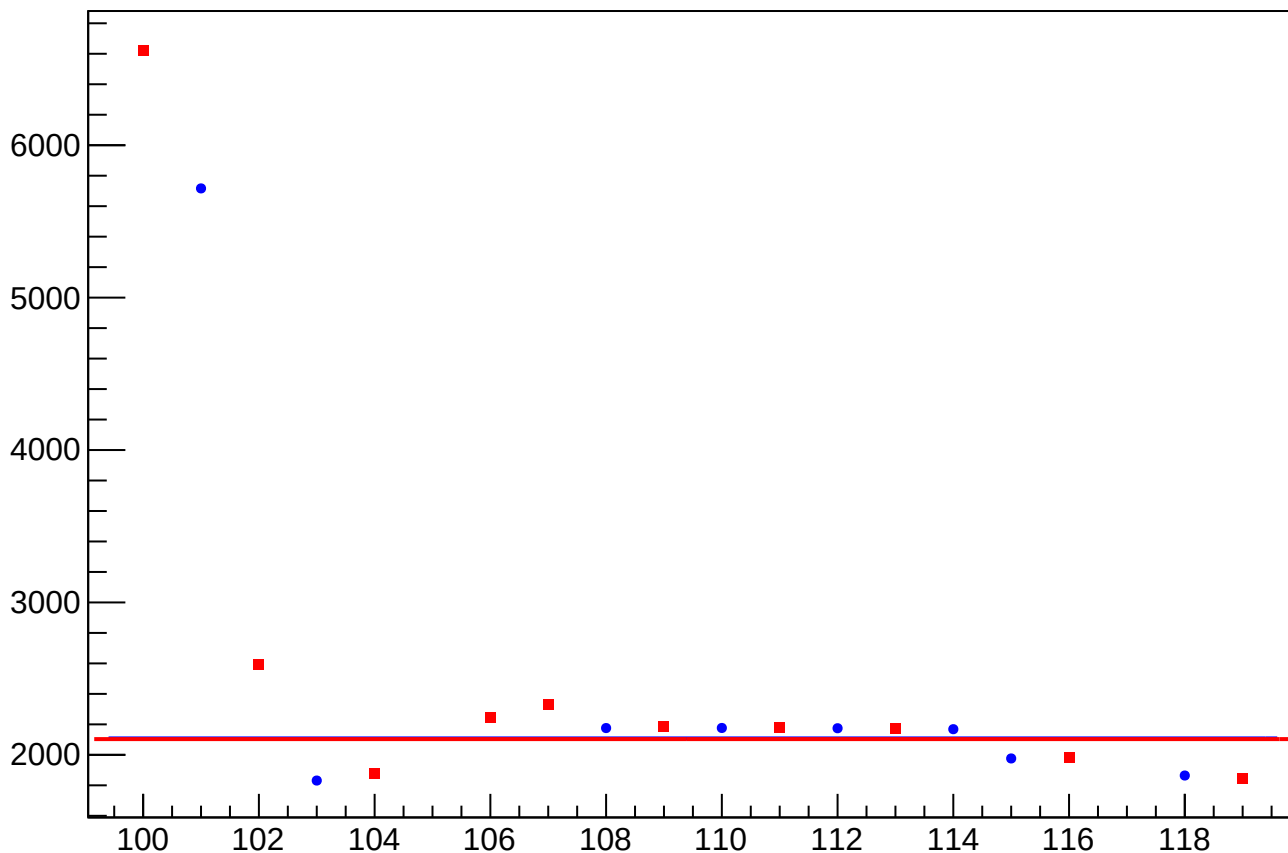
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -255.544 $\pm$ 799.463  $\chi^2$ /NDF: 17.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_at1\_avg\_rms vs Slug



Right In: 2107.737 $\pm$ 0.855  $\chi^2$ /NDF: 572321.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2103.330 $\pm$ 0.754  $\chi^2$ /NDF: 152810.8/9

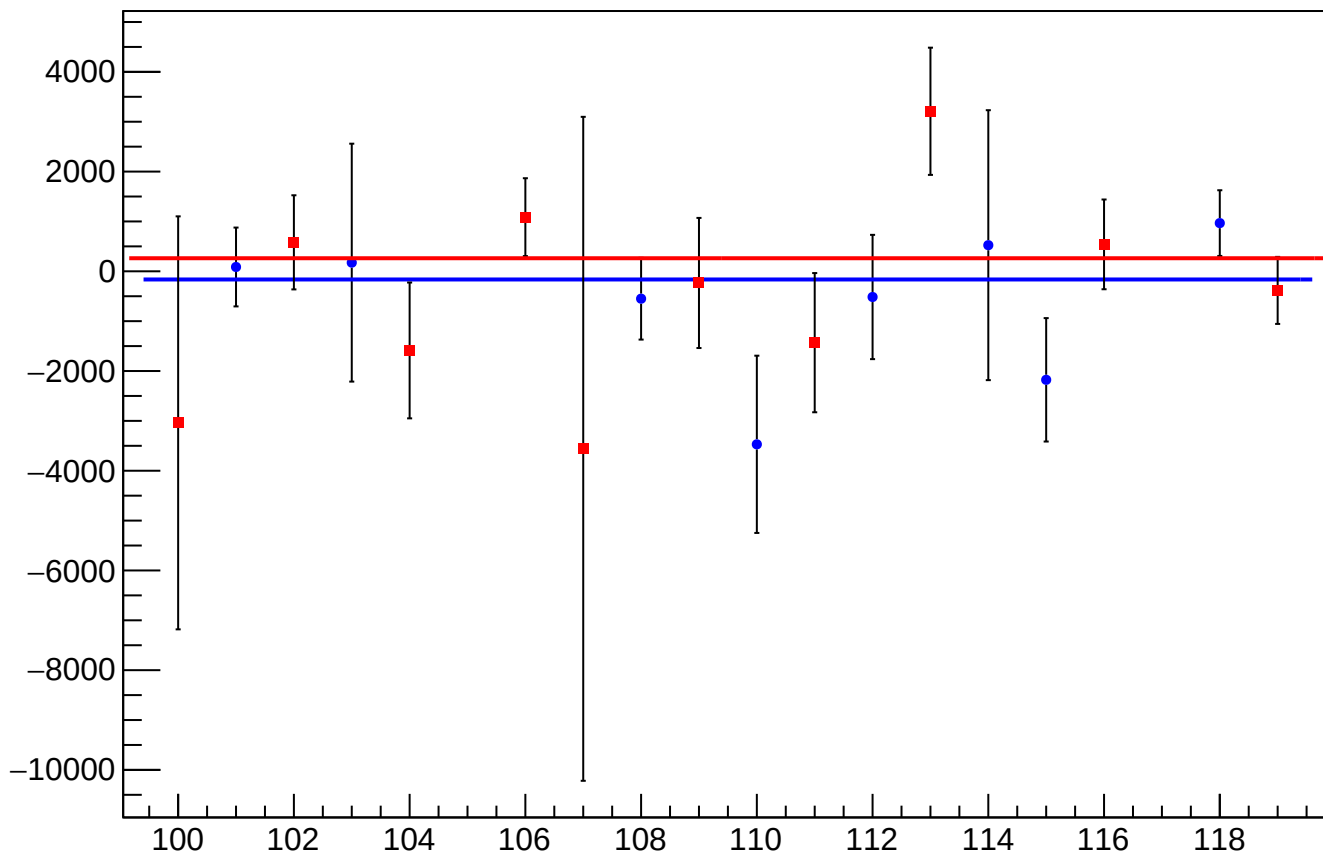
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2105.258 $\pm$ 0.565  $\chi^2$ /NDF: 725147.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_cor\_correction\_mean vs Slug



Right In: -163.924+/-369.741  $\chi^2/\text{NDF}$ : 9.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 262.009+/-342.083  $\chi^2/\text{NDF}$ : 12.0/9

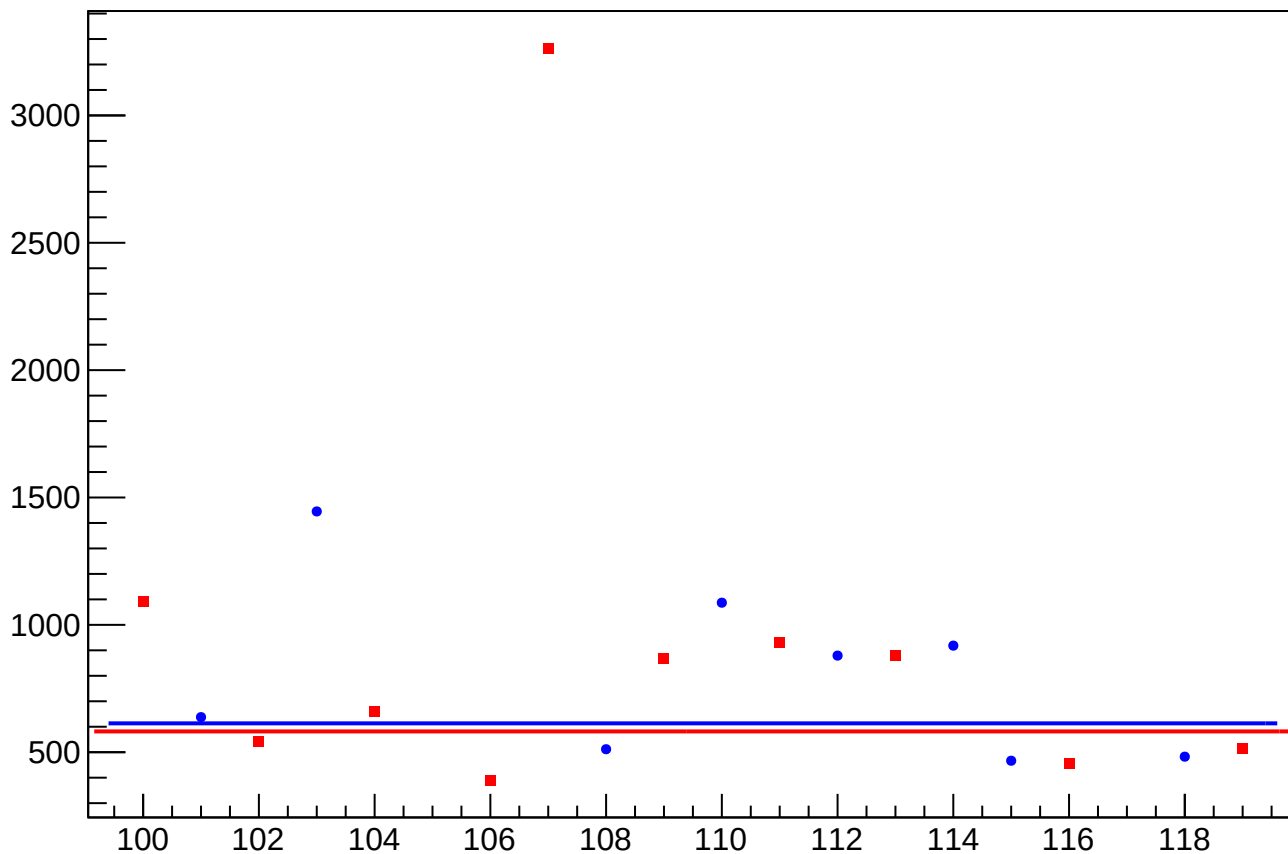
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.568+/-251.098  $\chi^2/\text{NDF}$ : 22.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_cor\_correction\_rms vs Slug



Right In: 613.310+/-0.261  $\chi^2/\text{NDF}$ : 641238.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 581.677+/-0.242  $\chi^2/\text{NDF}$ : 877545.4/9

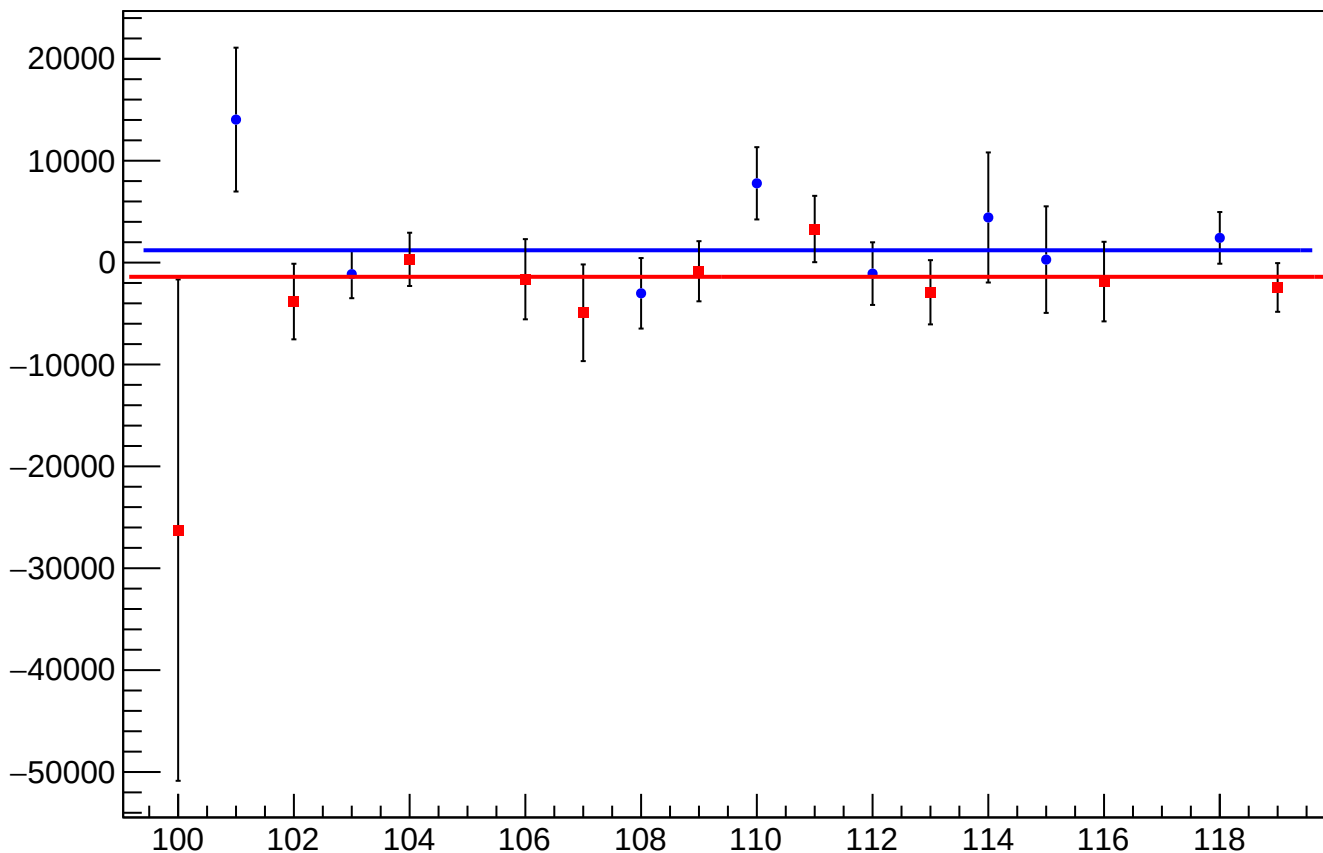
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 596.266+/-0.178  $\chi^2/\text{NDF}$ : 1526671.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_at1\_avg\_mean vs Slug



Right In: 1209.535 $\pm$ 1208.637  $\chi^2$ /NDF: 10.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1395.177 $\pm$ 1065.977  $\chi^2$ /NDF: 5.0/9

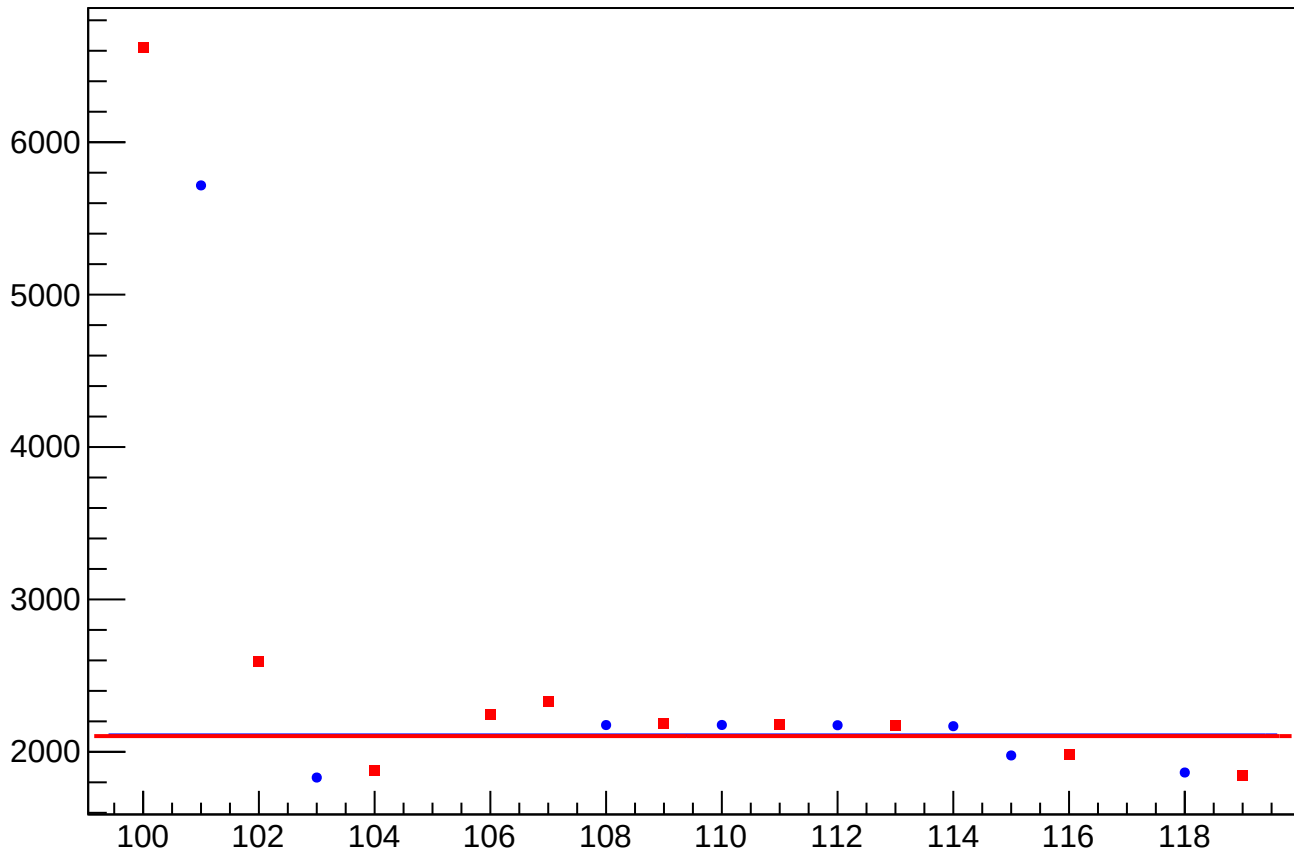
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -255.544 $\pm$ 799.463  $\chi^2$ /NDF: 17.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_at1\_avg\_rms vs Slug



Right In: 2107.737 $\pm$ 0.855  $\chi^2$ /NDF: 572321.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2103.330 $\pm$ 0.754  $\chi^2$ /NDF: 152810.8/9

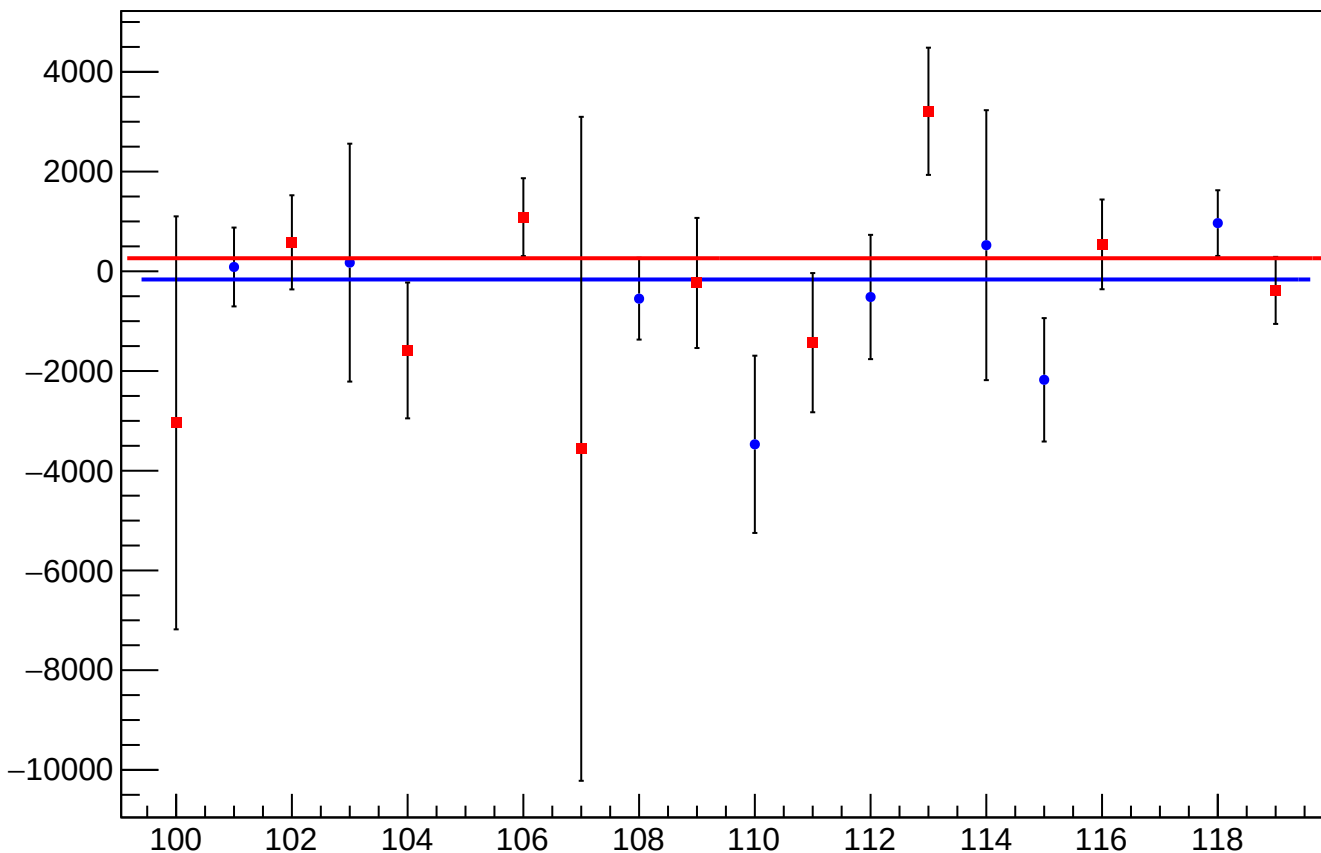
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2105.258 $\pm$ 0.565  $\chi^2$ /NDF: 725147.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -163.924+/-369.741  $\chi^2/\text{NDF}$ : 9.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 262.009+/-342.083  $\chi^2/\text{NDF}$ : 12.0/9

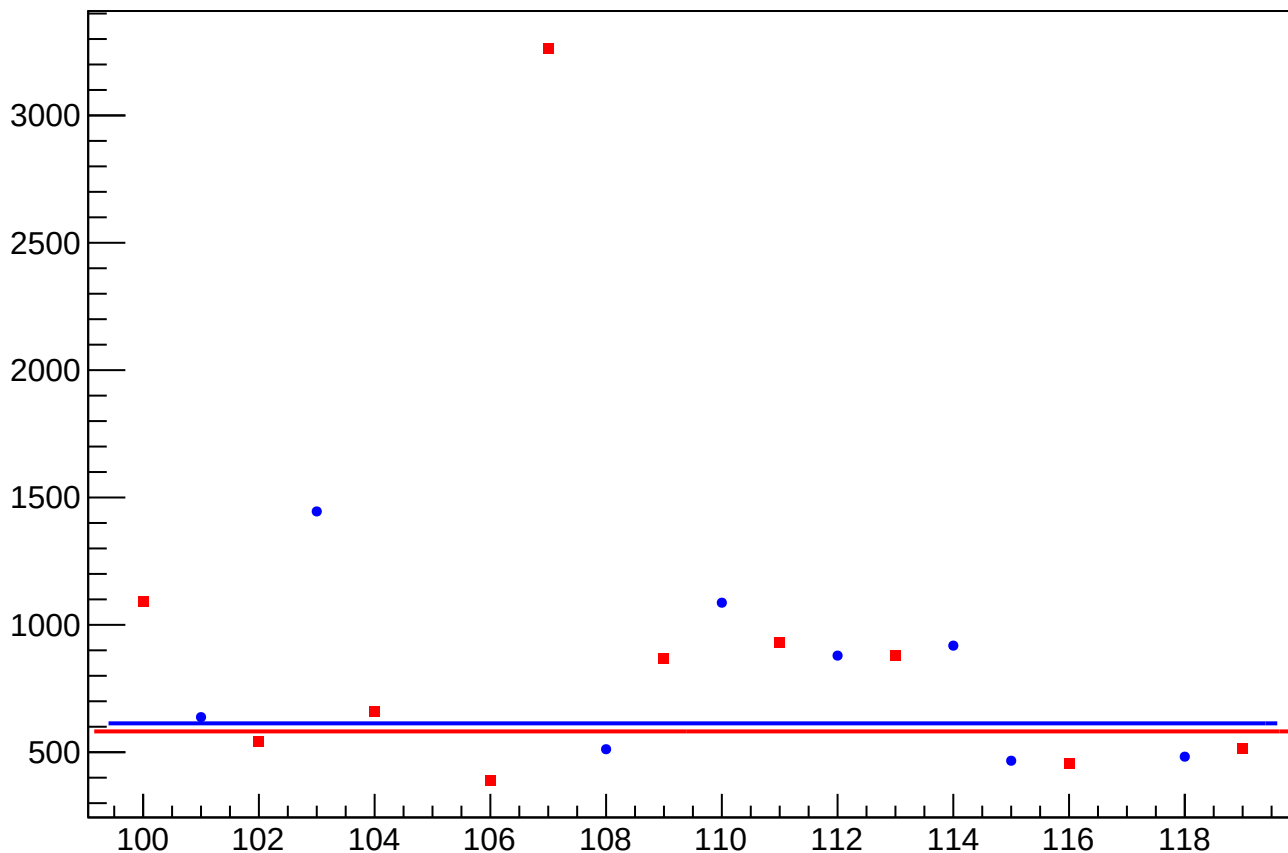
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.568+/-251.098  $\chi^2/\text{NDF}$ : 22.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 613.310+/-0.261  $\chi^2/\text{NDF}$ : 641238.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 581.677+/-0.242  $\chi^2/\text{NDF}$ : 877545.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

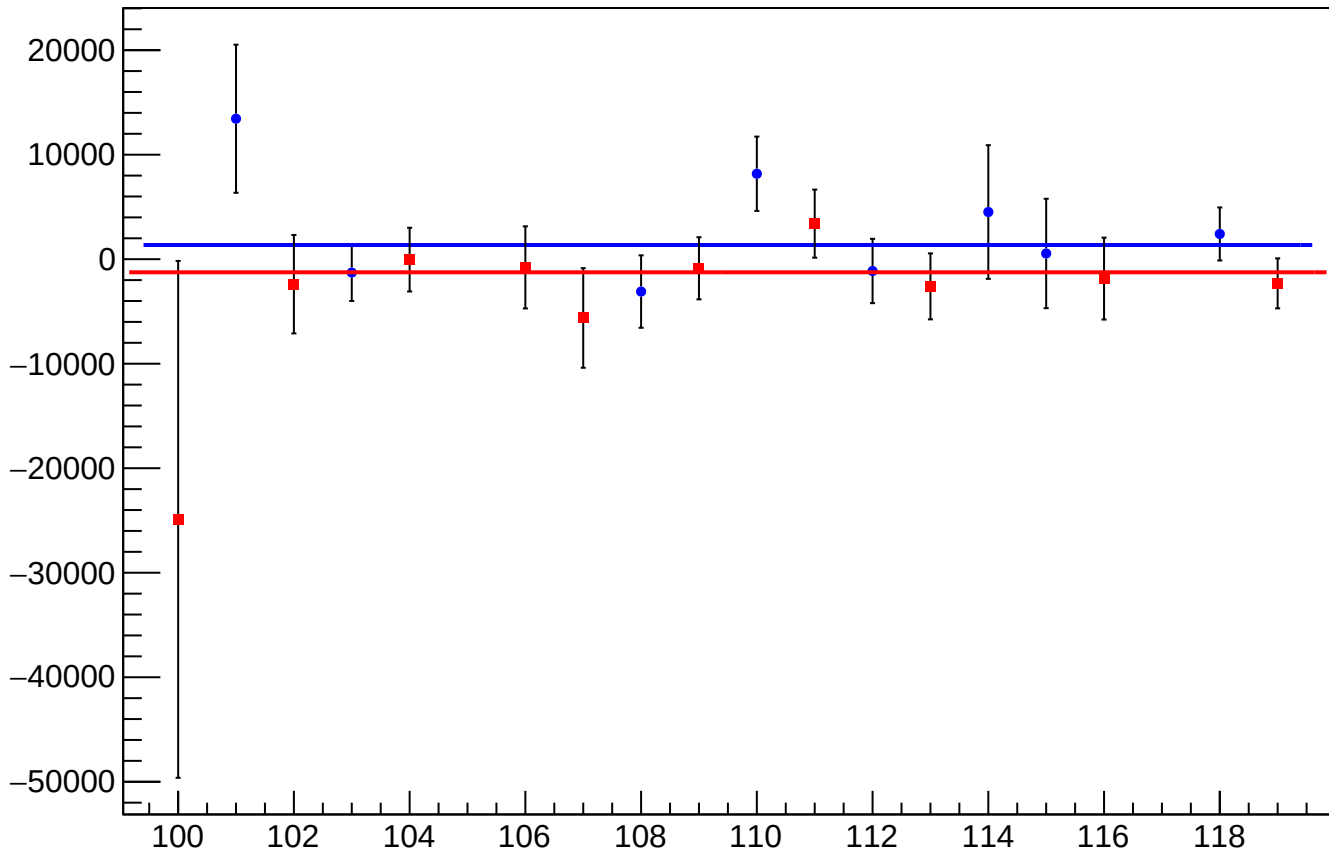
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 596.266+/-0.178  $\chi^2/\text{NDF}$ : 1526671.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_at1\_avg\_mean vs Slug



Right In: 1358.819+/-1250.230  $\chi^2/\text{NDF}$ : 10.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1252.068+/-1110.527  $\chi^2/\text{NDF}$ : 4.4/9

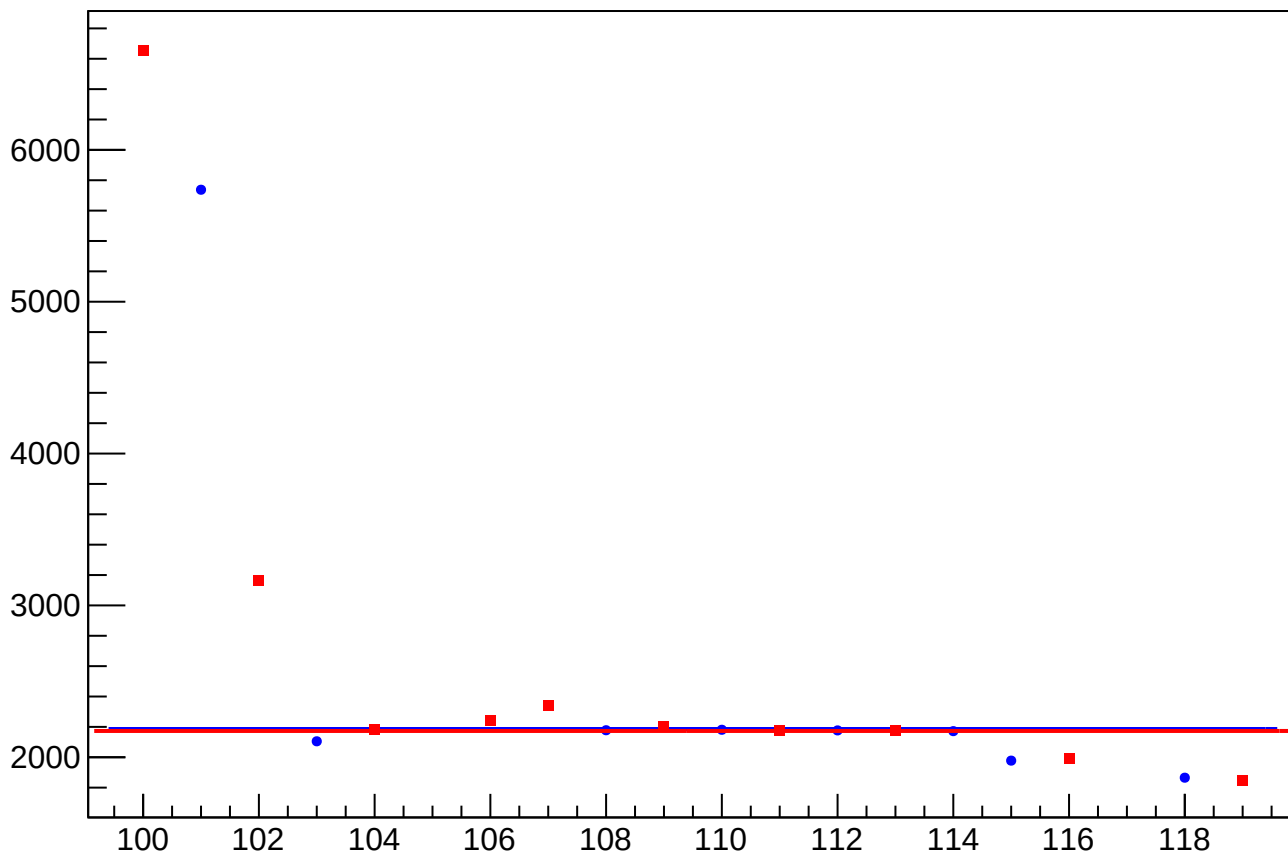
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -100.590+/-830.278  $\chi^2/\text{NDF}$ : 17.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_at1\_avg\_rms vs Slug



Right In: 2186.010 $\pm$ 0.884  $\chi^2$ /NDF: 539283.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2173.187 $\pm$ 0.785  $\chi^2$ /NDF: 198923.7/9

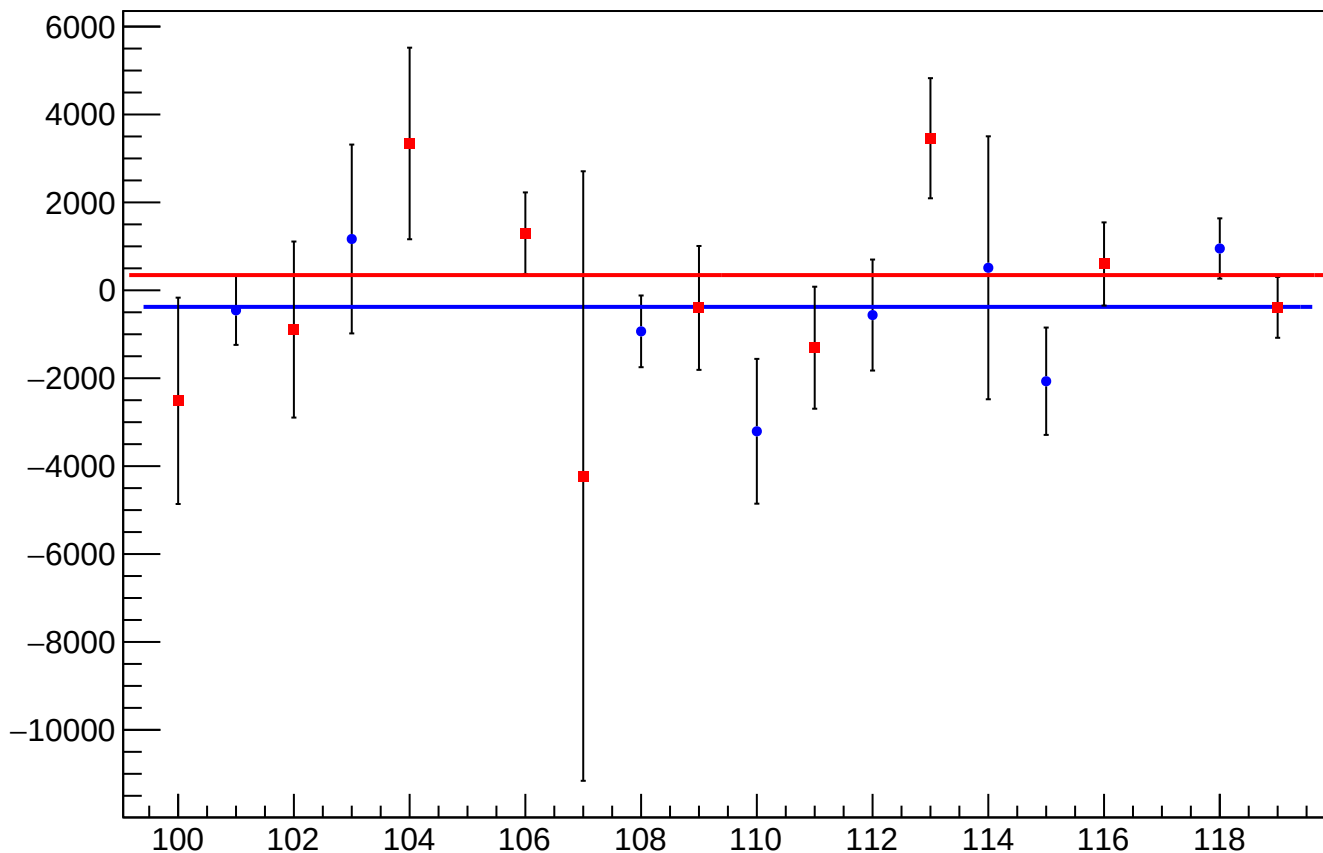
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2178.842 $\pm$ 0.587  $\chi^2$ /NDF: 738324.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_dit\_correction\_mean vs Slug



Right In: -376.923+/-371.589  $\chi^2/\text{NDF}$ : 9.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 346.409+/-389.691  $\chi^2/\text{NDF}$ : 13.3/9

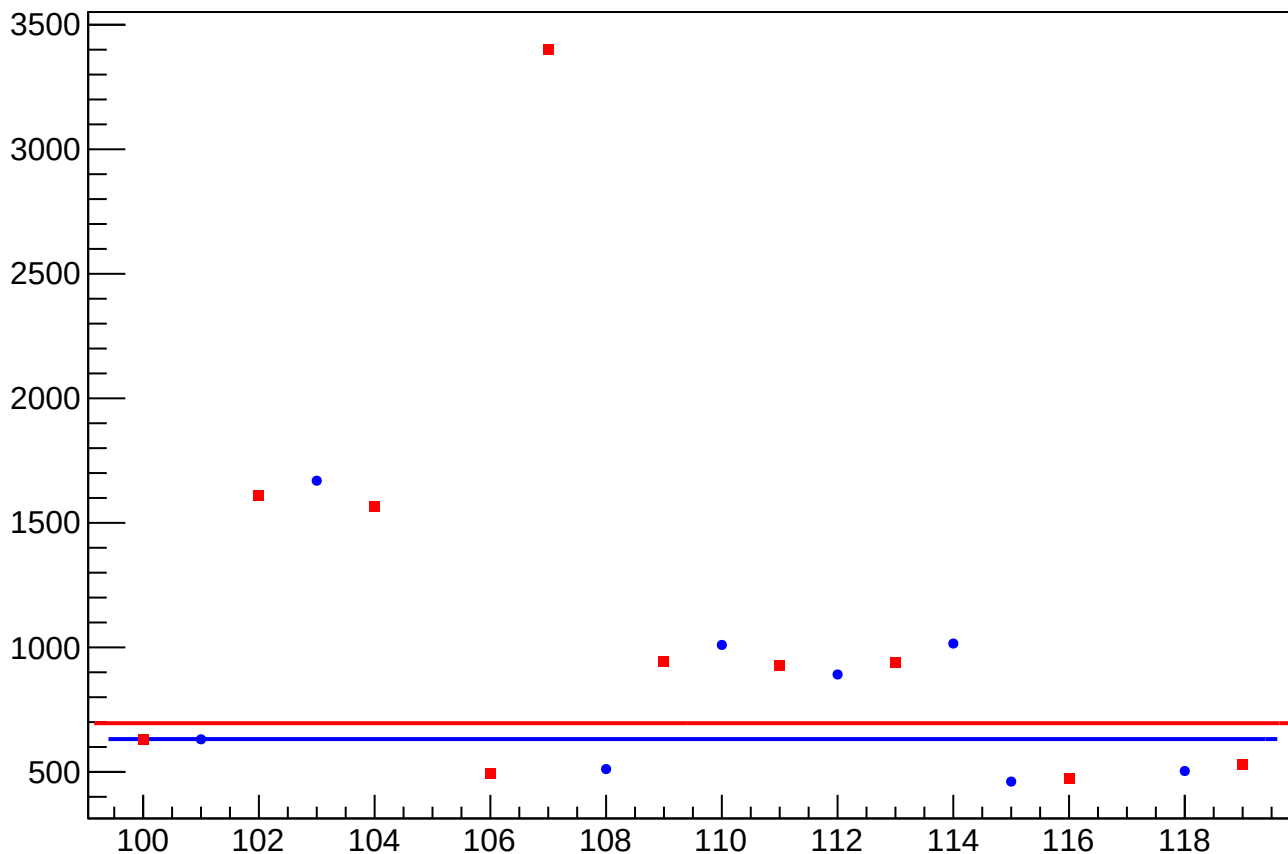
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.447+/-268.925  $\chi^2/\text{NDF}$ : 24.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_dit\_correction\_rms vs Slug



Right In: 631.900+/-0.263  $\chi^2/\text{NDF}$ : 841636.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 695.645+/-0.276  $\chi^2/\text{NDF}$ : 1543075.5/9

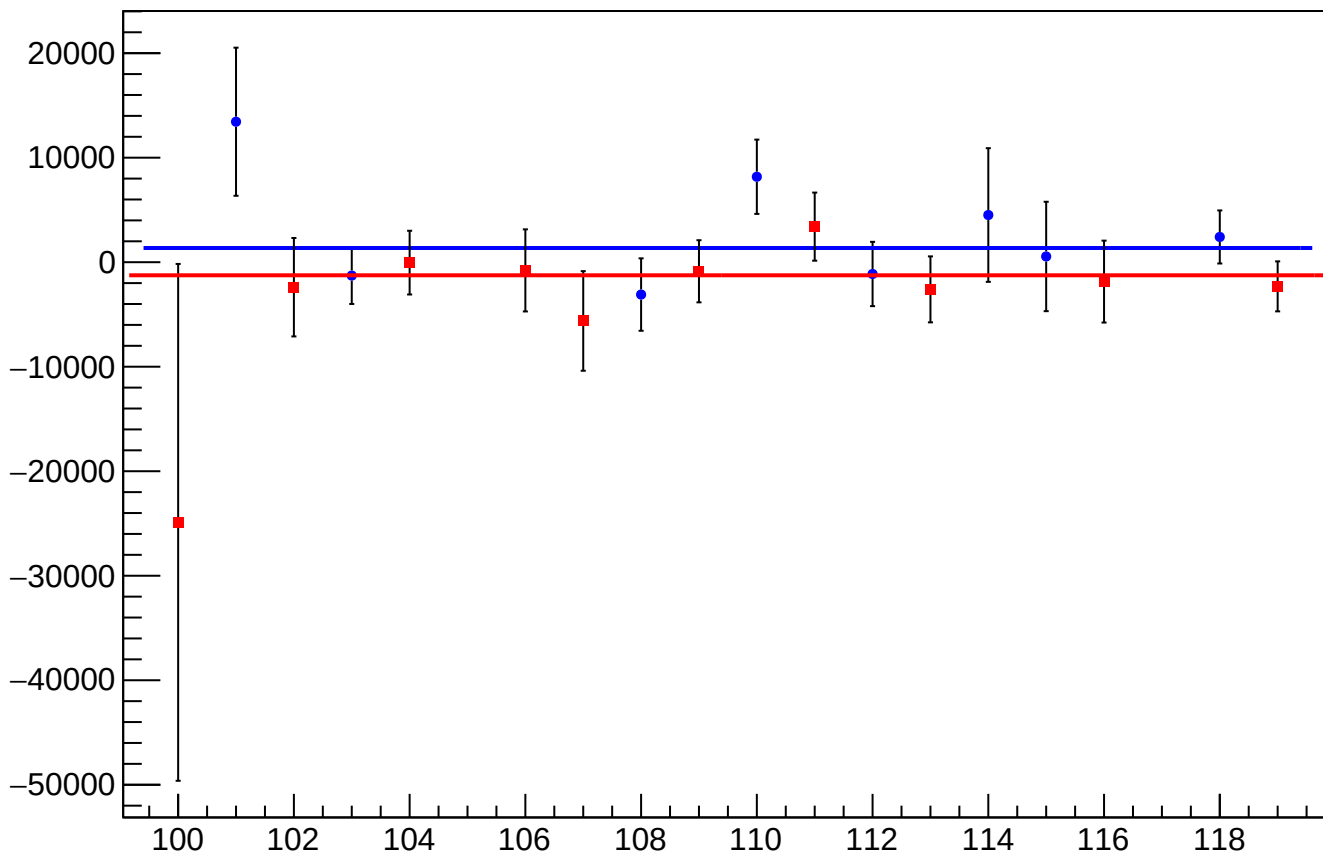
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 662.258+/-0.190  $\chi^2/\text{NDF}$ : 2412741.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_at1\_avg\_mean vs Slug



Right In: 1358.816+/-1250.229  $\chi^2/\text{NDF}$ : 10.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1252.066+/-1110.527  $\chi^2/\text{NDF}$ : 4.4/9

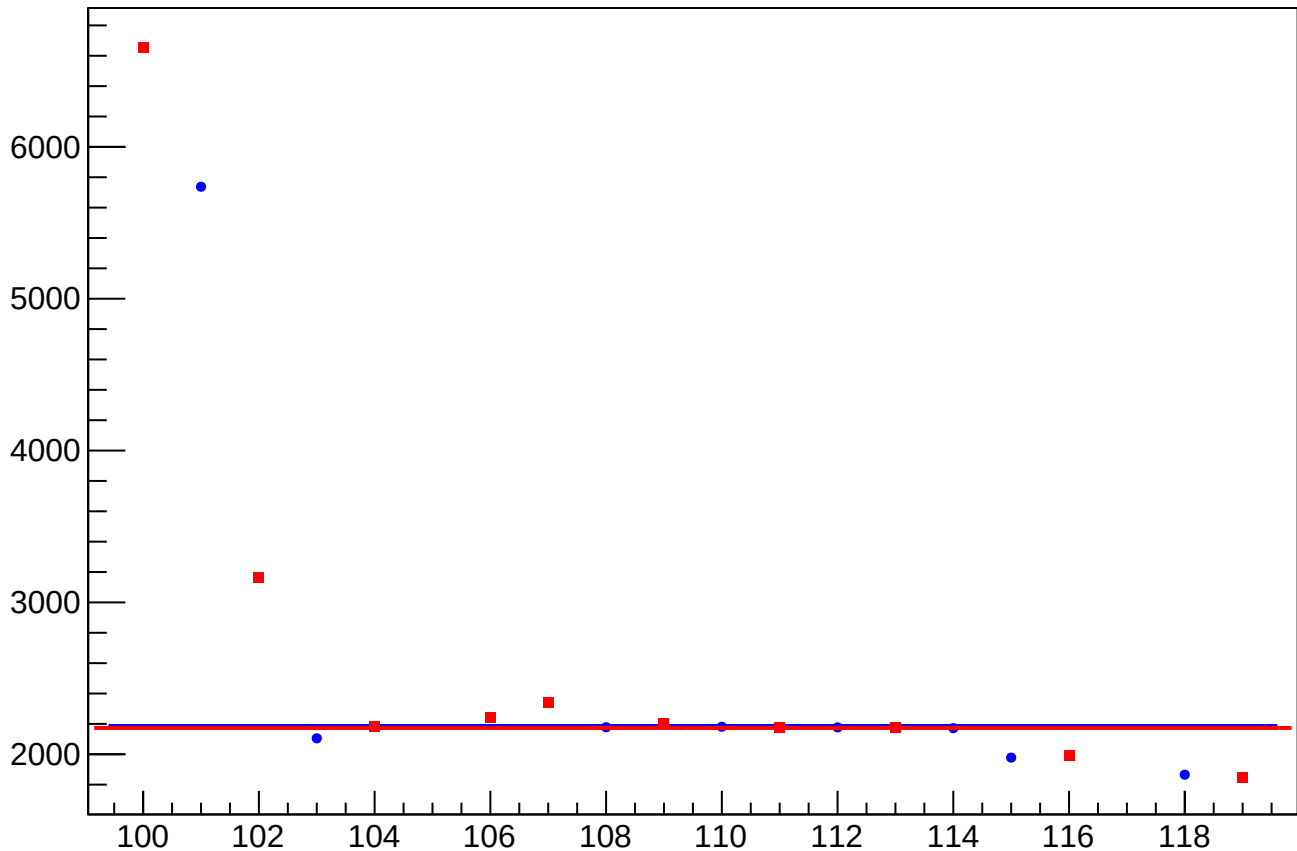
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -100.590+/-830.278  $\chi^2/\text{NDF}$ : 17.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_at1\_avg\_rms vs Slug



Right In: 2186.009+/-0.884  $\chi^2/\text{NDF}$ : 539283.5/7

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

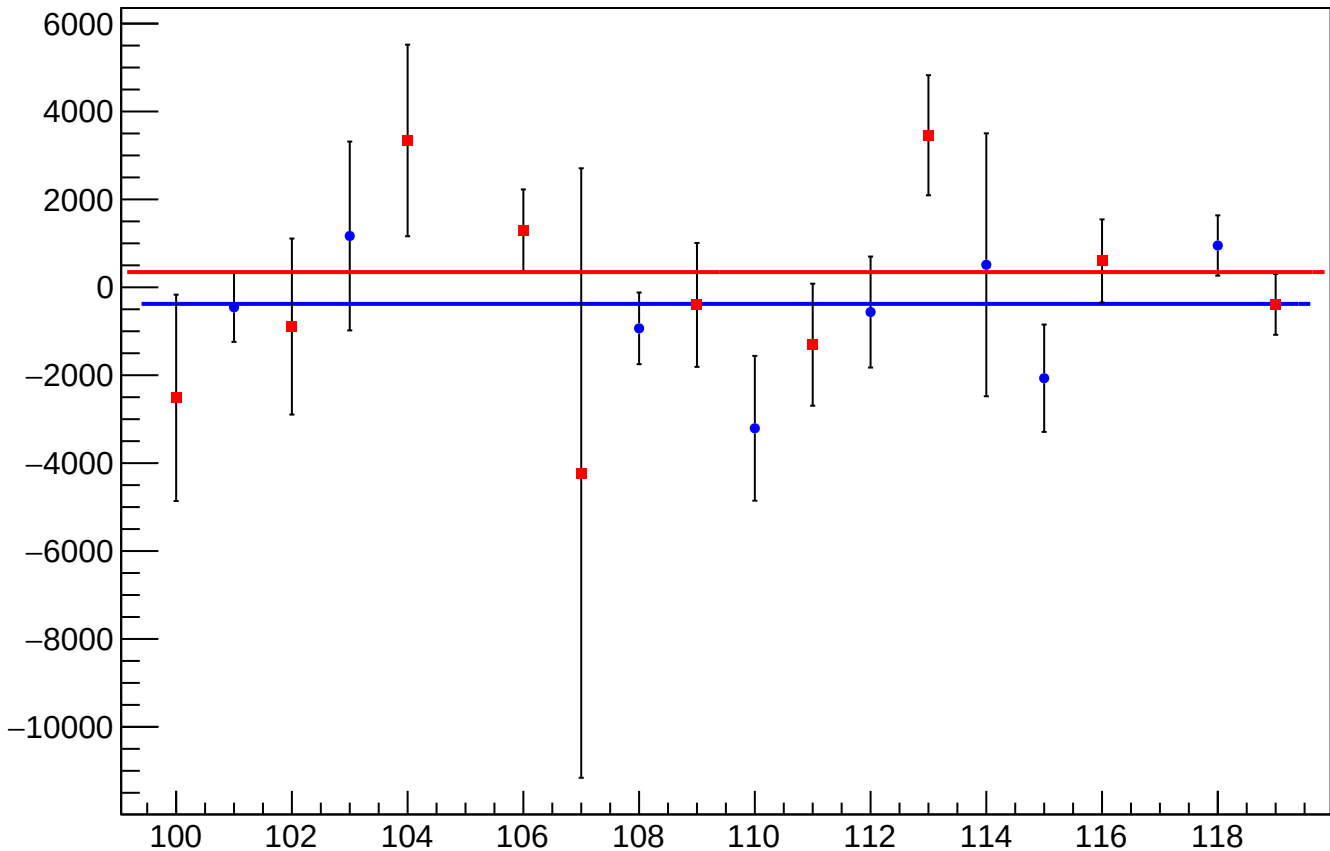
Right Out: 2173.186+/-0.785  $\chi^2/\text{NDF}$ : 198922.8/9

All: 2178.841+/-0.587  $\chi^2/\text{NDF}$ : 738323.9/17

- 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\_at1\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -376.921+/-371.588  $\chi^2/\text{NDF}$ : 9.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 346.407+/-389.690  $\chi^2/\text{NDF}$ : 13.3/9

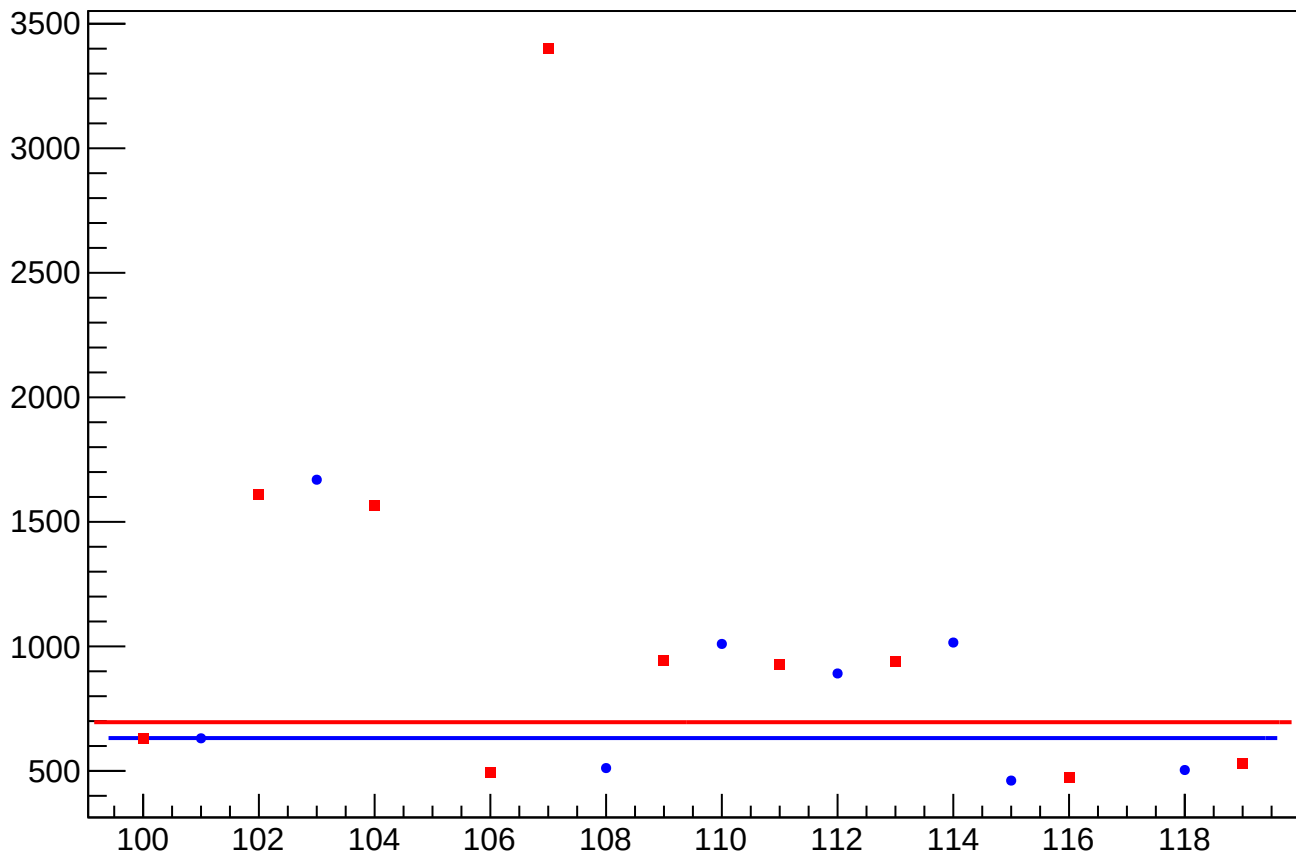
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.447+/-268.925  $\chi^2/\text{NDF}$ : 24.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 631.899+/-0.263  $\chi^2/\text{NDF}$ : 841640.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 695.644+/-0.276  $\chi^2/\text{NDF}$ : 1543083.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

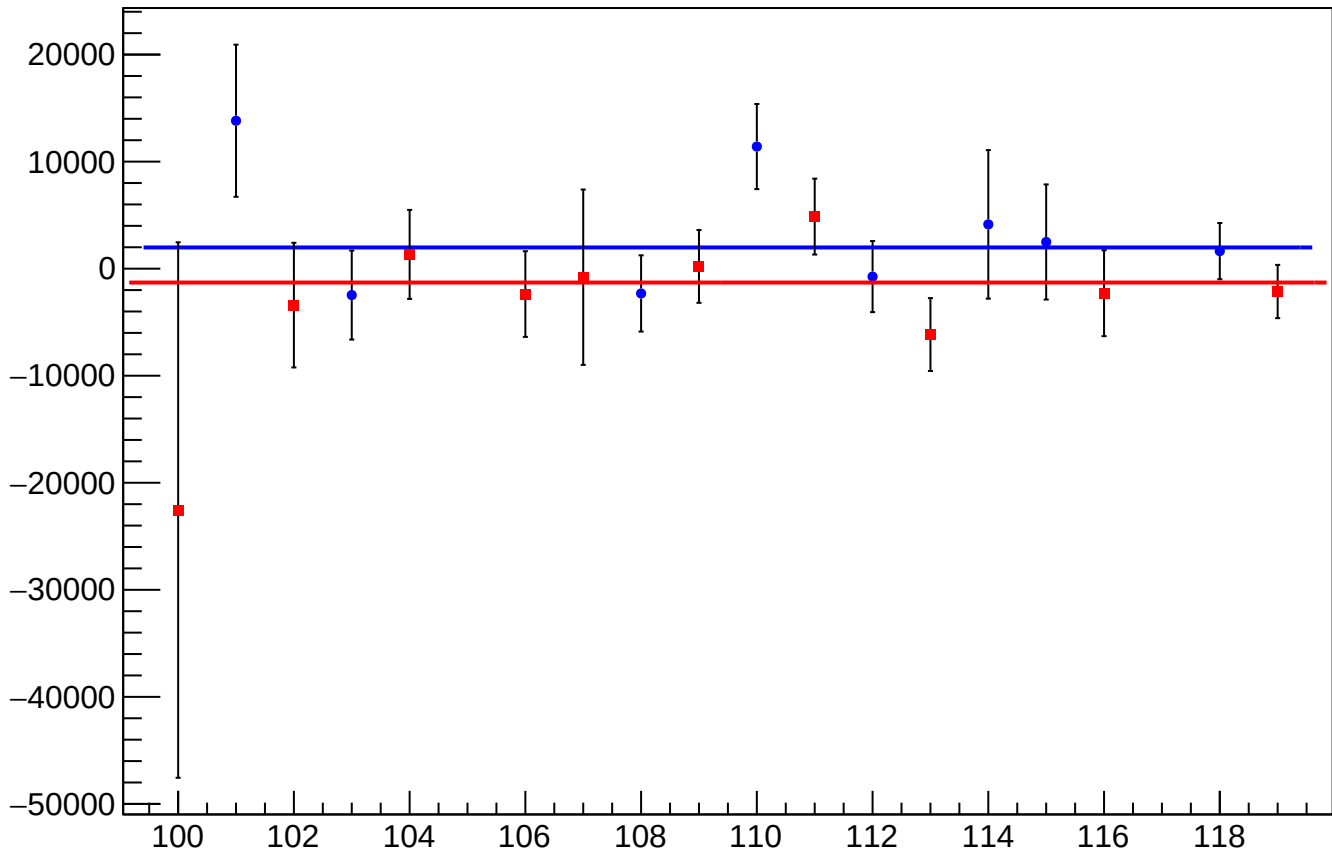
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 662.256+/-0.190  $\chi^2/\text{NDF}$ : 2412754.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_at1\_avg\_mean vs Slug



Right In: 1981.942 $\pm$ 1399.112  $\chi^2$ /NDF: 11.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1296.151 $\pm$ 1247.854  $\chi^2$ /NDF: 6.8/9

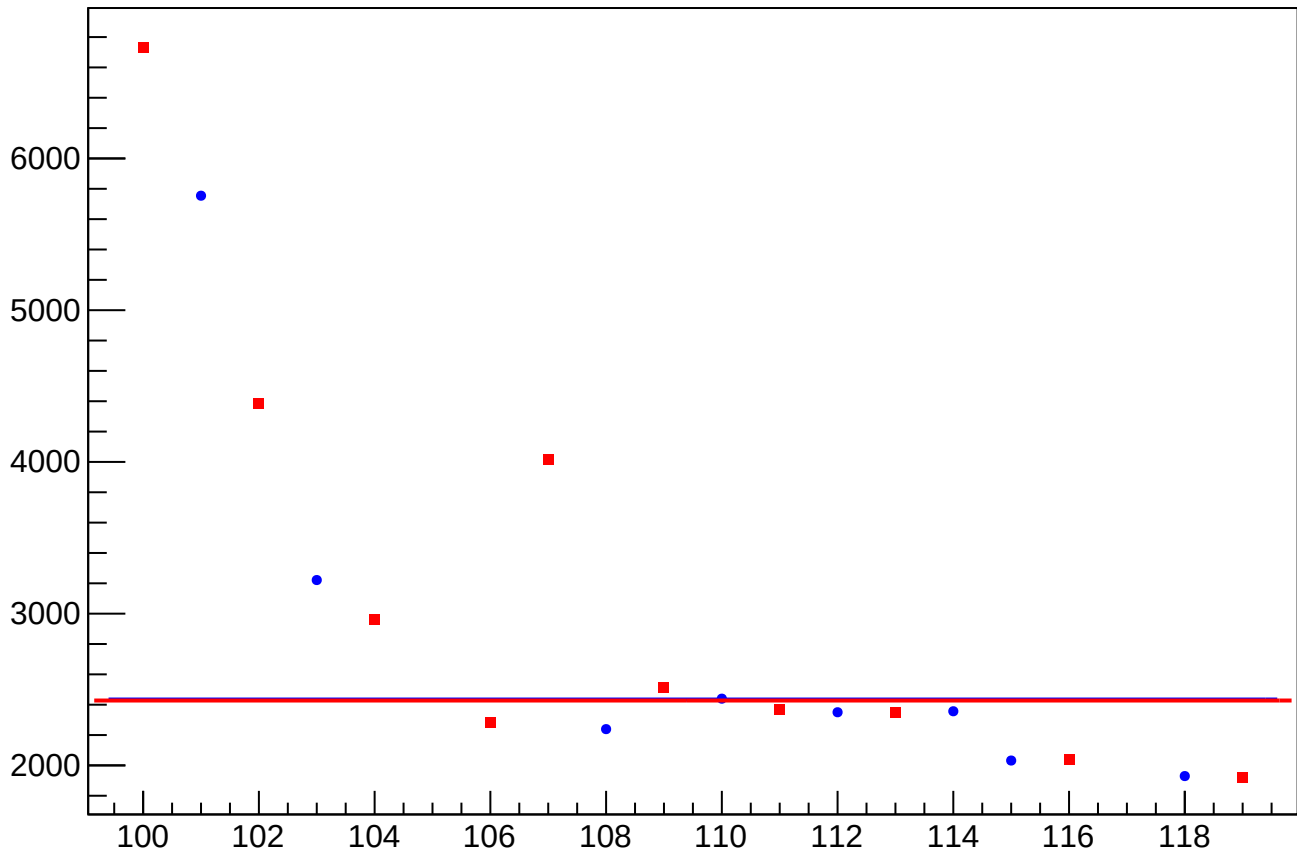
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.182 $\pm$ 931.269  $\chi^2$ /NDF: 21.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_rms vs Slug



Right In: 2434.087 $\pm$ 0.989  $\chi^2$ /NDF: 601003.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2427.564 $\pm$ 0.882  $\chi^2$ /NDF: 501539.9/9

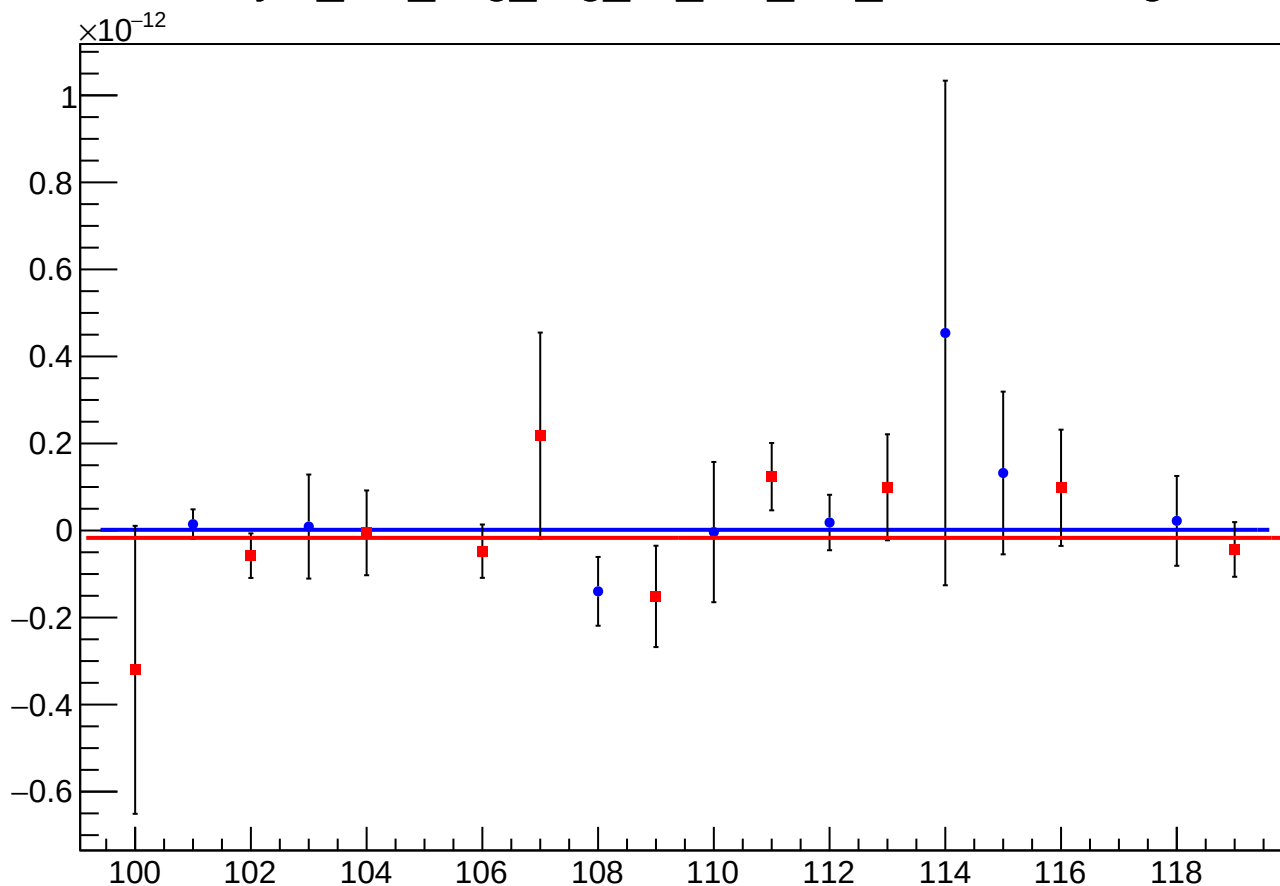
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2430.454 $\pm$ 0.659  $\chi^2$ /NDF: 1102567.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.2/9

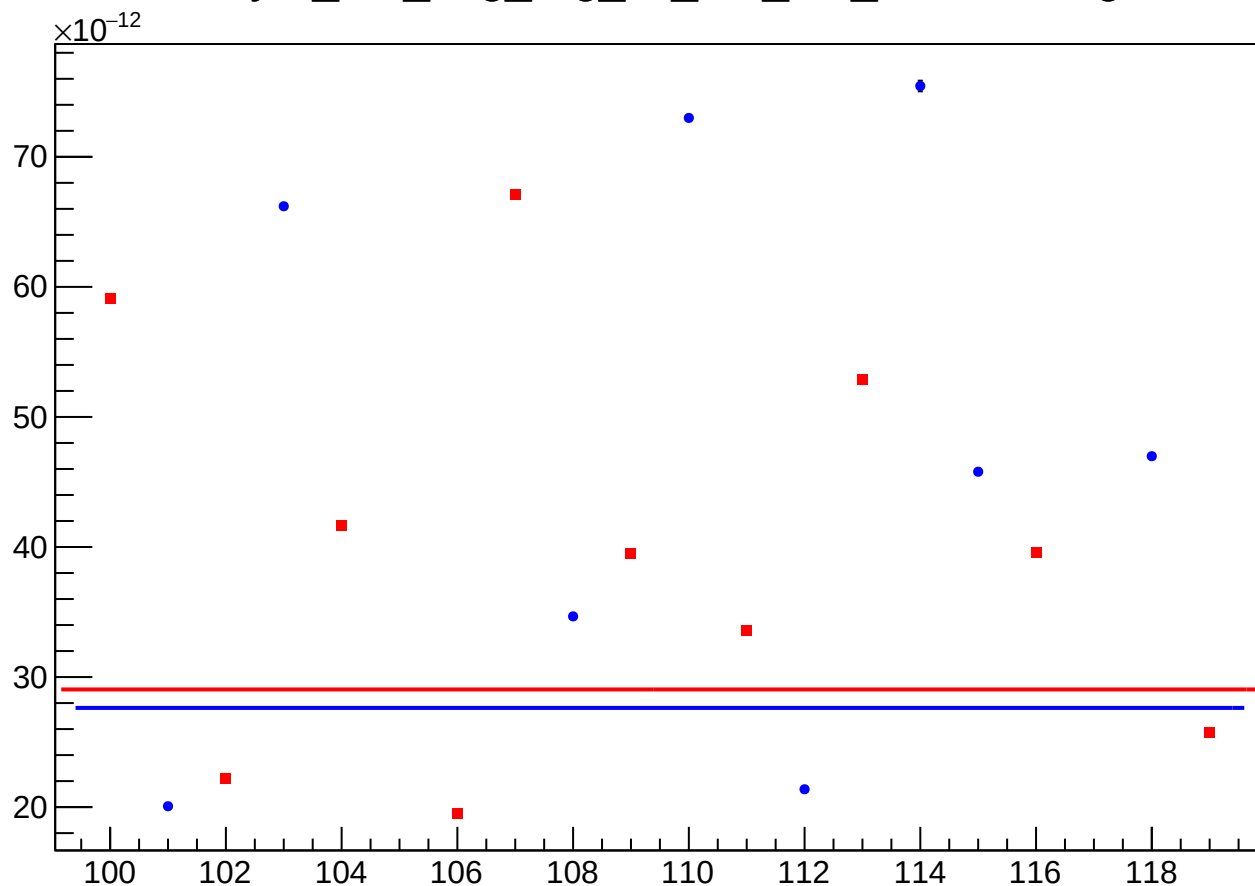
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 603128.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 303436.5/9

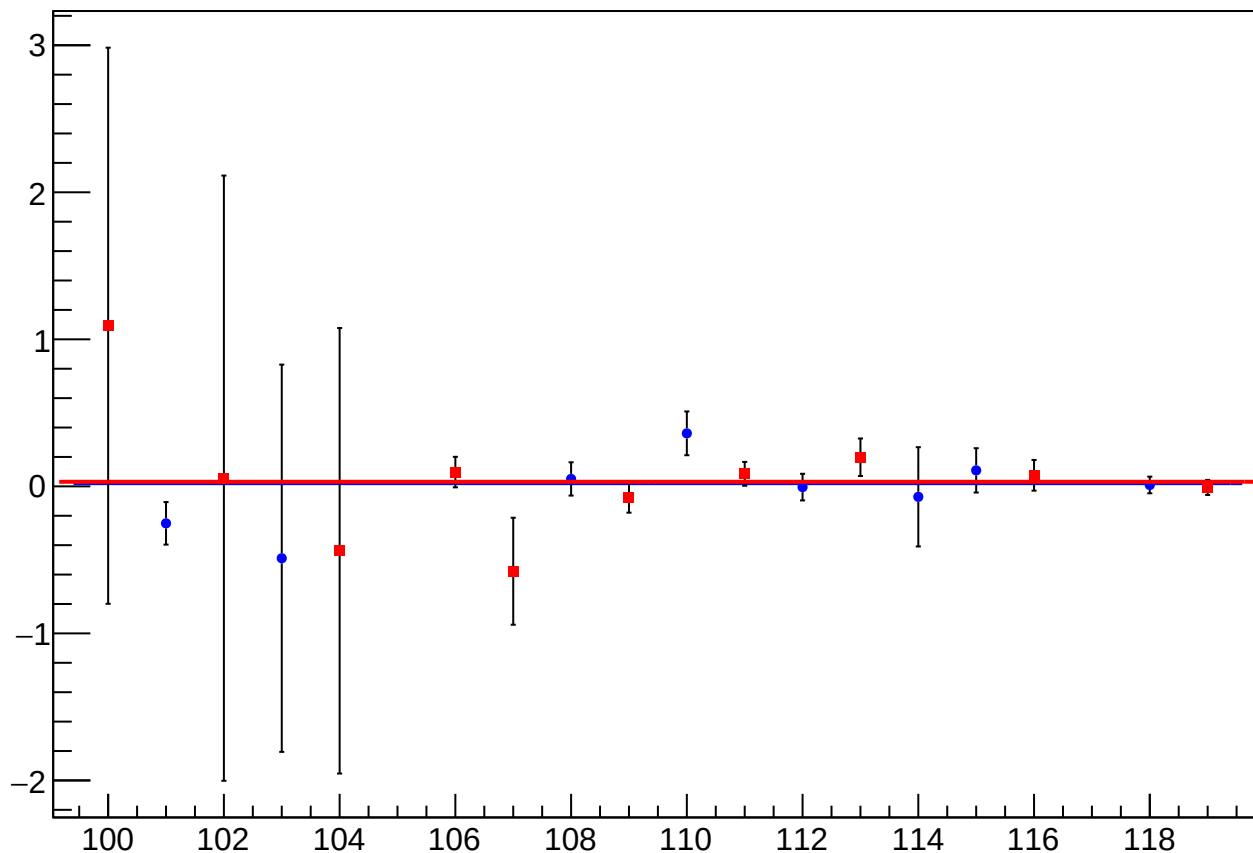
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 909484.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.022 $\pm$ 0.039  $\chi^2$ /NDF: 9.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.031 $\pm$ 0.034  $\chi^2$ /NDF: 7.5/9

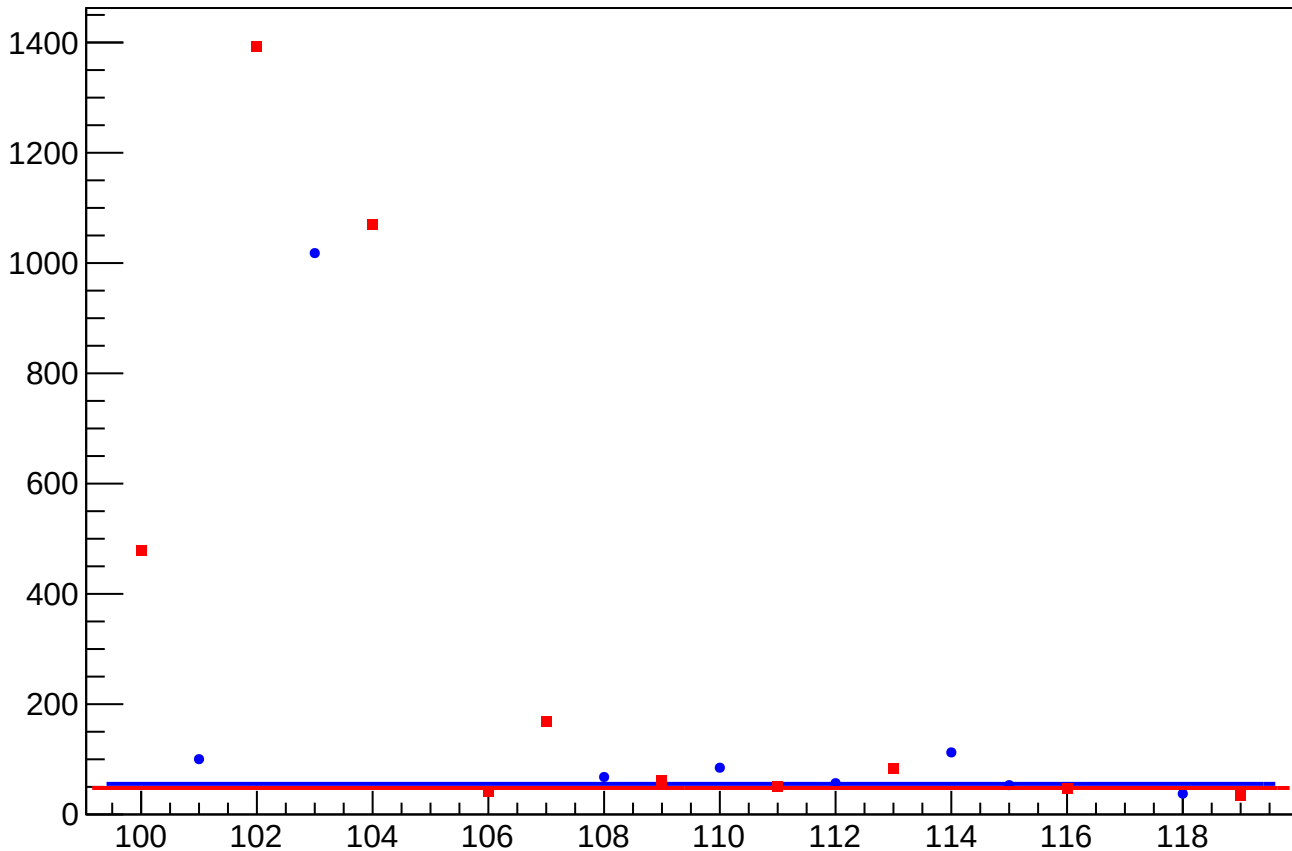
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.026  $\chi^2$ /NDF: 17.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 55.477 $\pm$ 0.028  $\chi^2$ /NDF: 1617459.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.009 $\pm$ 0.024  $\chi^2$ /NDF: 2405641.0/9

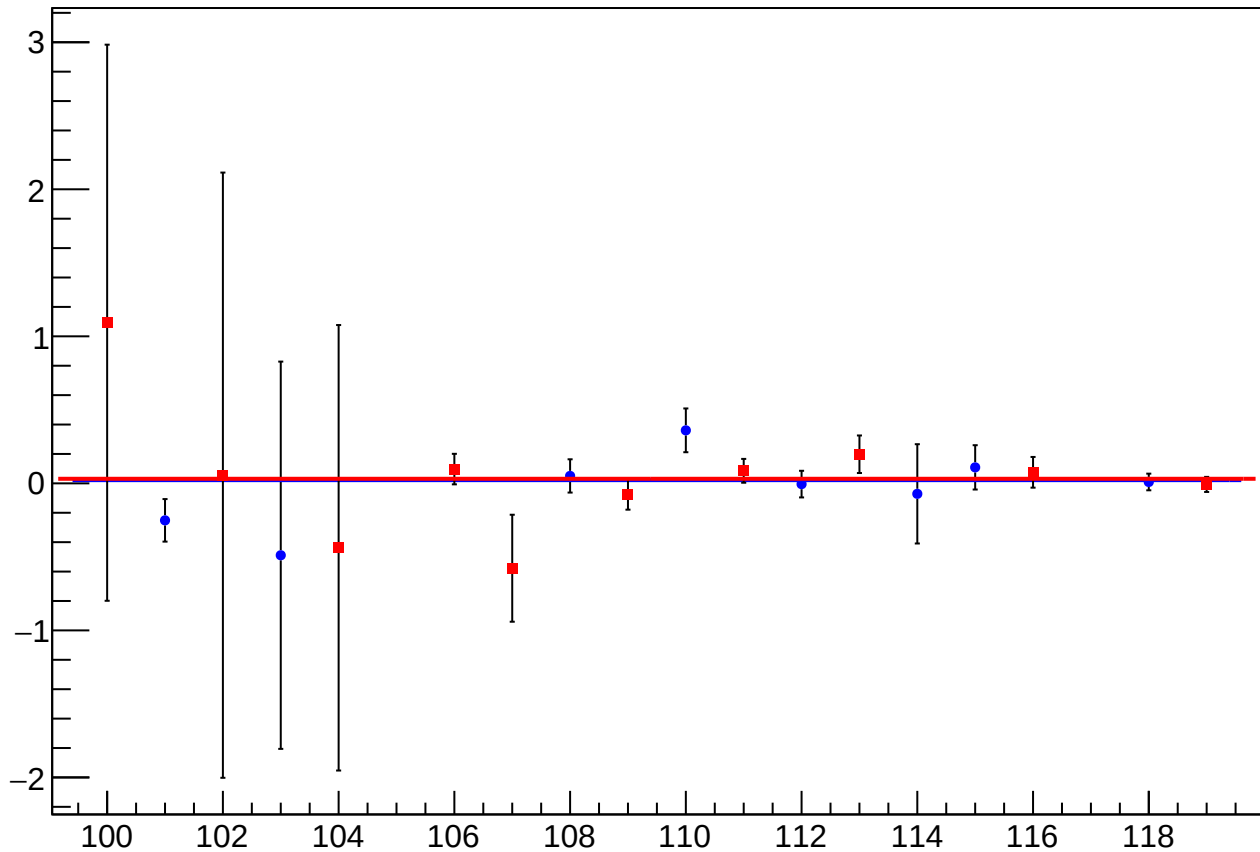
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 51.208 $\pm$ 0.018  $\chi^2$ /NDF: 4065073.8/17

- 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: 0.022 $\pm$ 0.039  $\chi^2$ /NDF: 9.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.031 $\pm$ 0.034  $\chi^2$ /NDF: 7.5/9

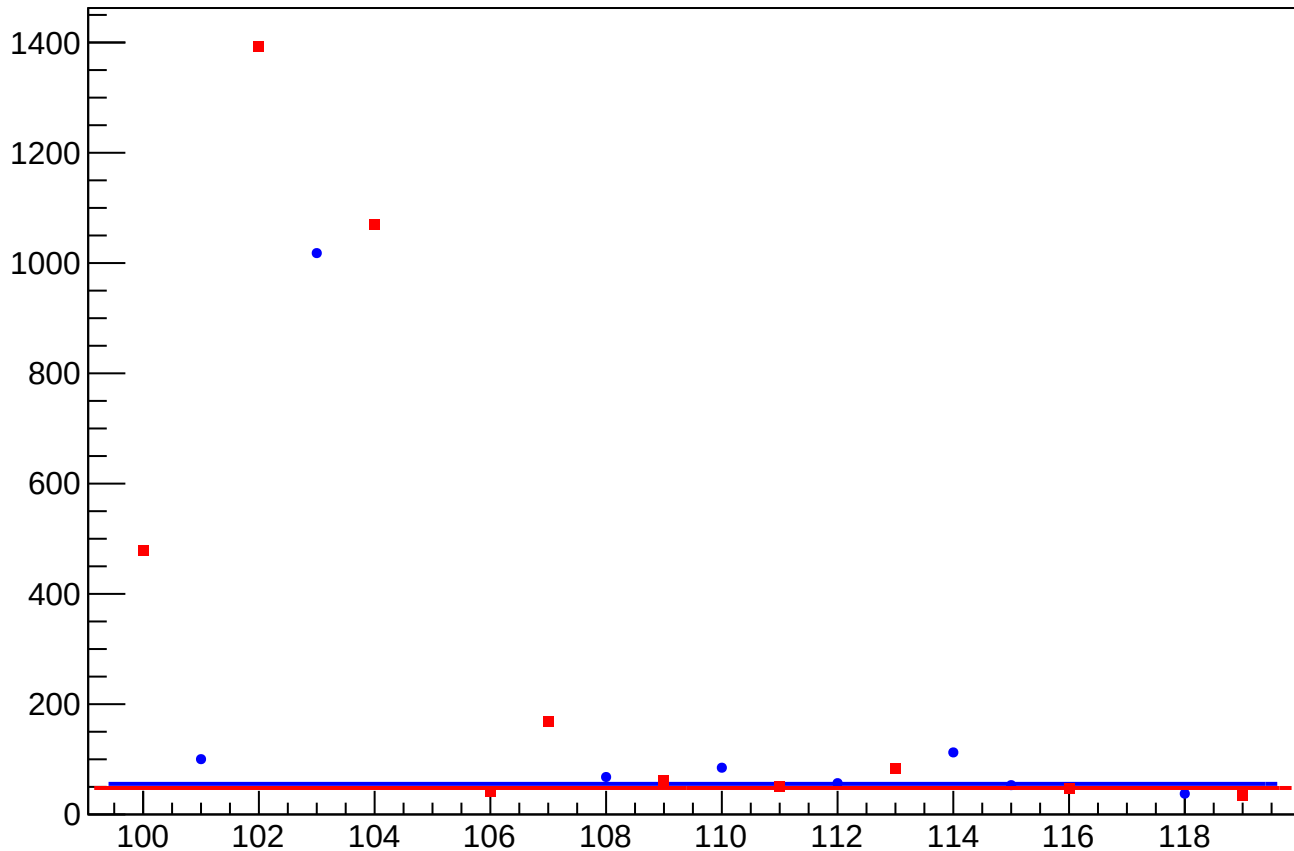
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.026  $\chi^2$ /NDF: 17.1/17

- 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: 55.477+/-0.028  $\chi^2/\text{NDF}$ : 1617459.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.009+/-0.024  $\chi^2/\text{NDF}$ : 2405641.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

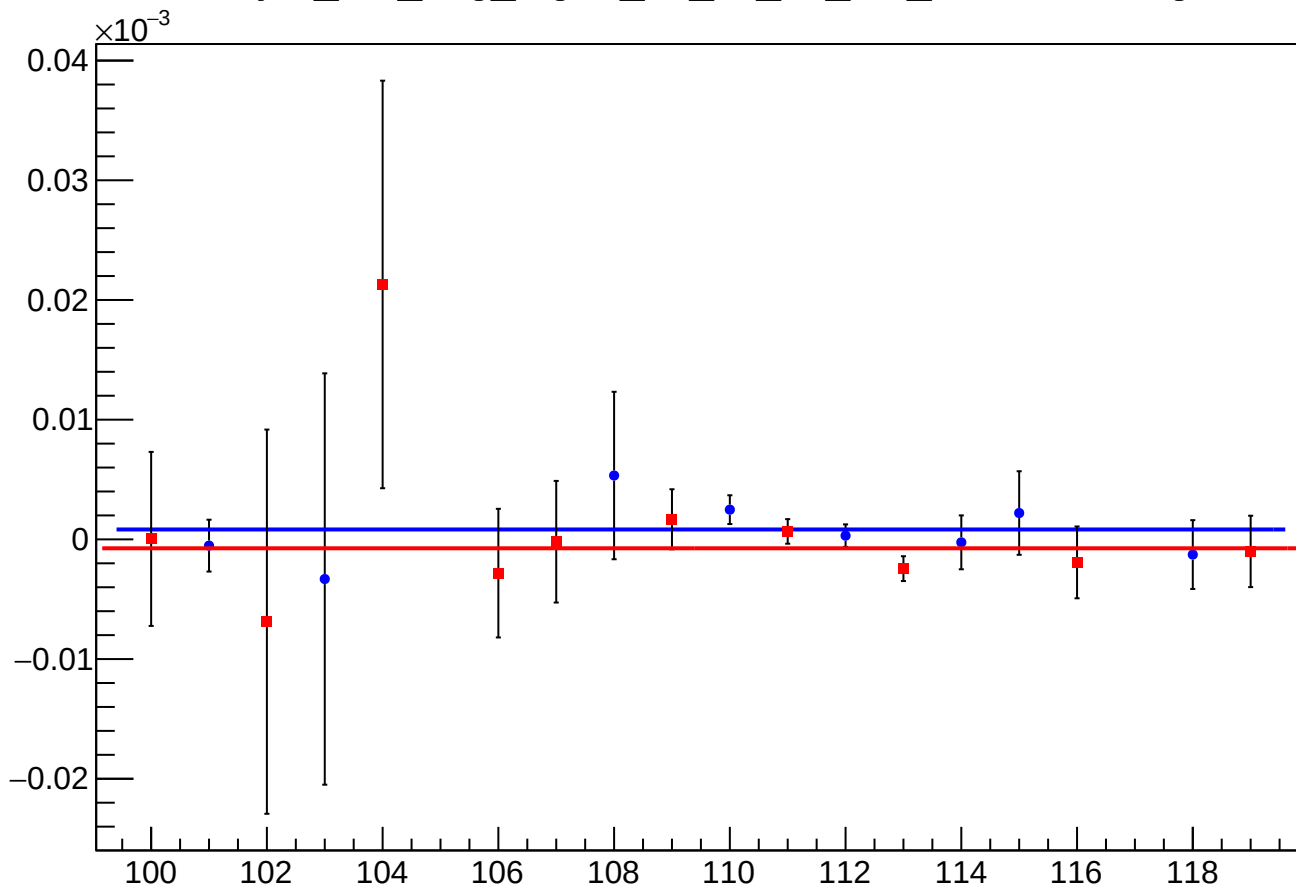
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.208+/-0.018  $\chi^2/\text{NDF}$ : 4065073.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_at1\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 4.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 7.7/9

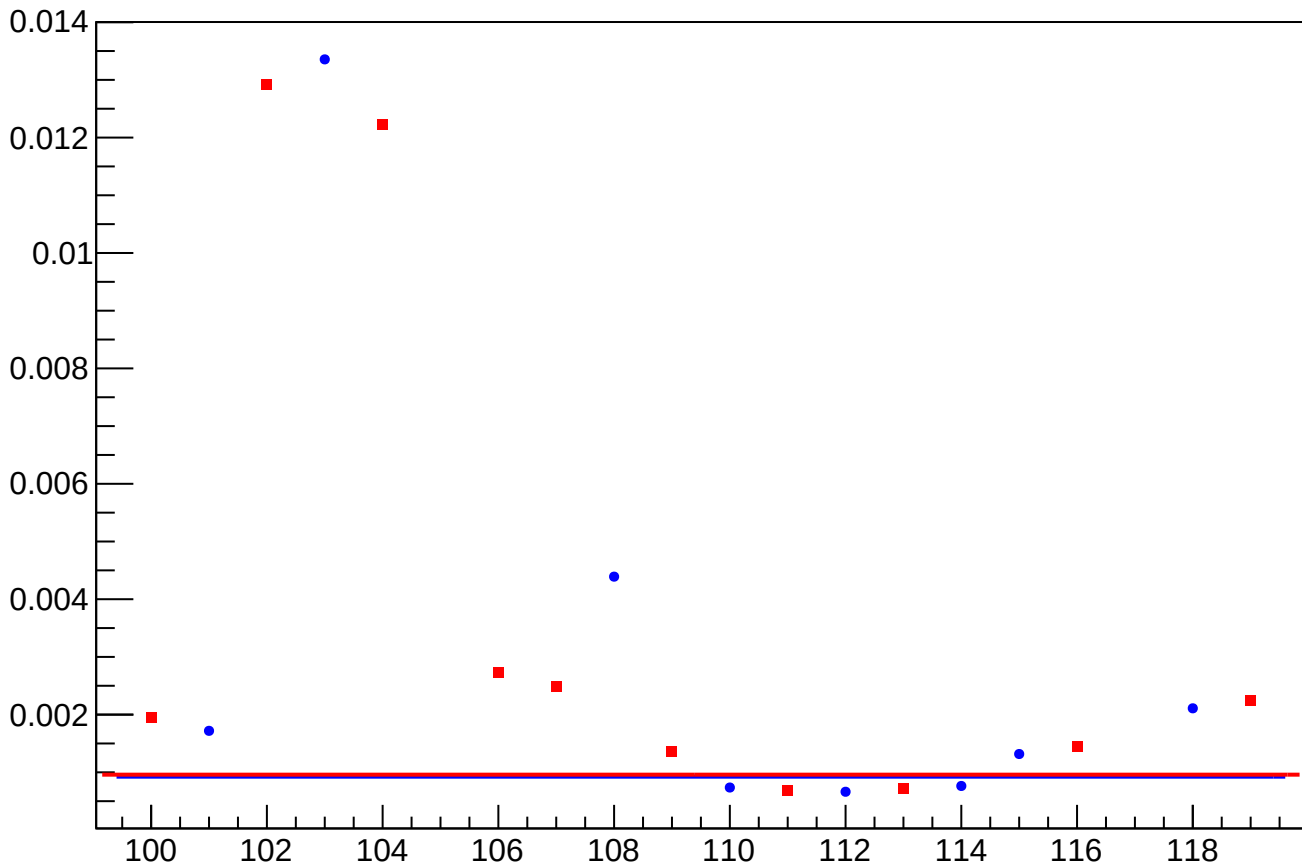
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 14.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2385870.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3157359.1/9

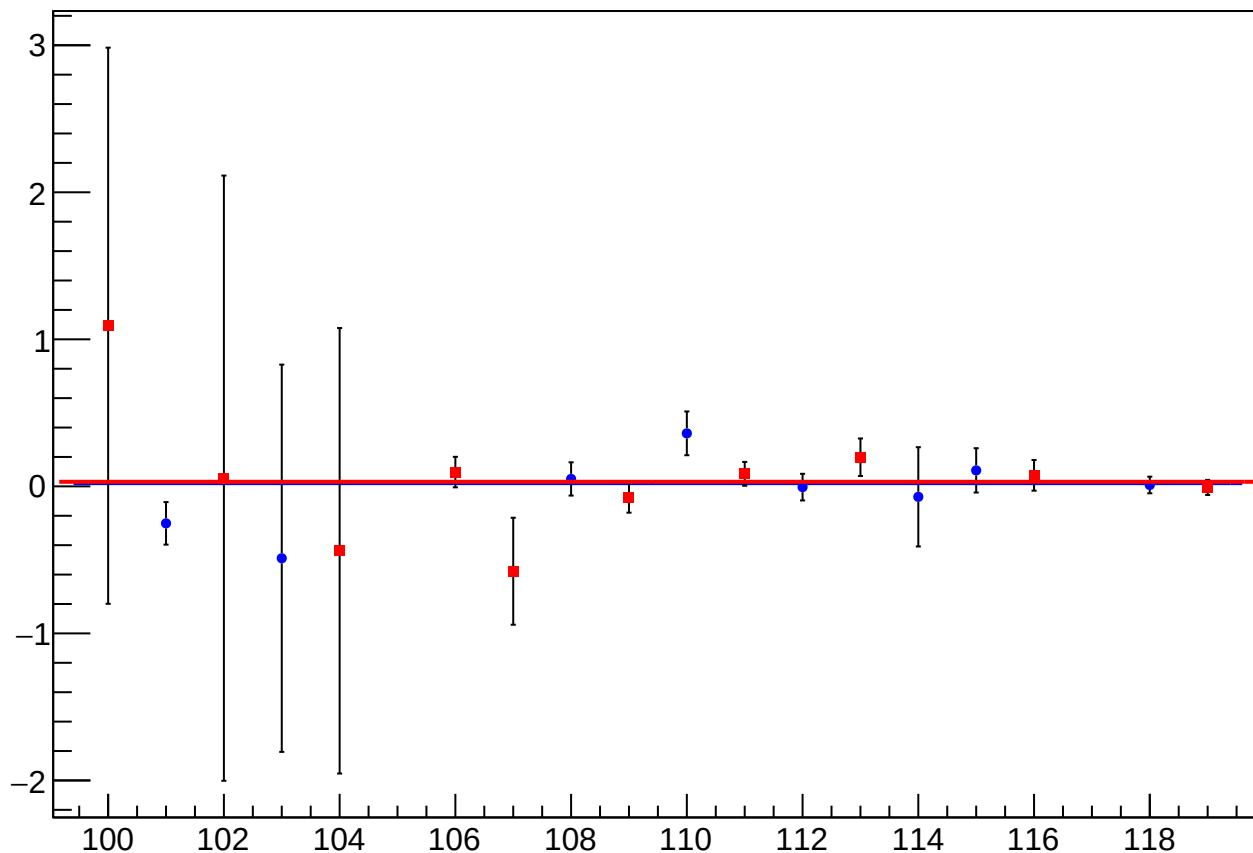
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5546109.3/17

- 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: 0.022 $\pm$ 0.039  $\chi^2$ /NDF: 9.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.031 $\pm$ 0.034  $\chi^2$ /NDF: 7.5/9

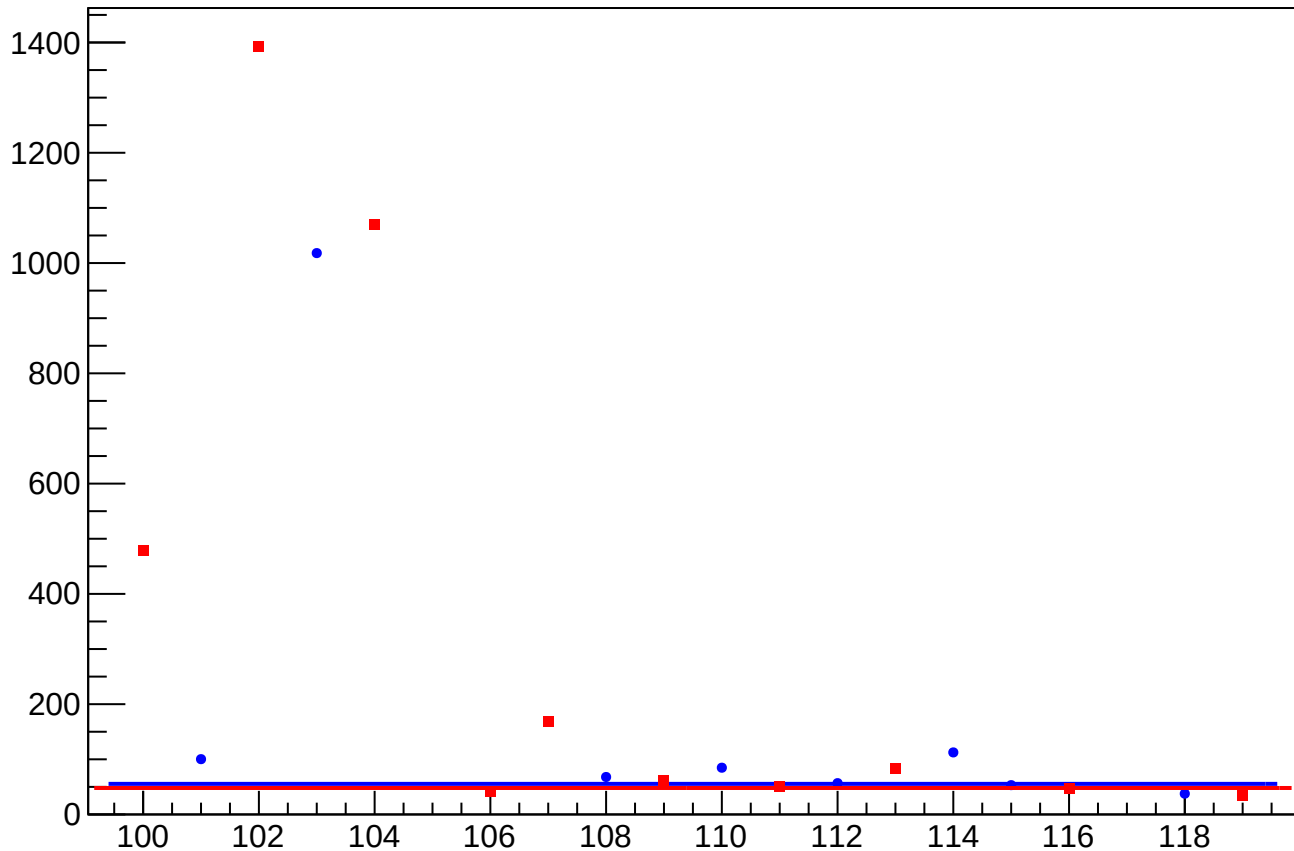
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.026  $\chi^2$ /NDF: 17.1/17

- 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: 55.476+/-0.028  $\chi^2/\text{NDF}$ : 1617475.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.008+/-0.024  $\chi^2/\text{NDF}$ : 2405674.5/9

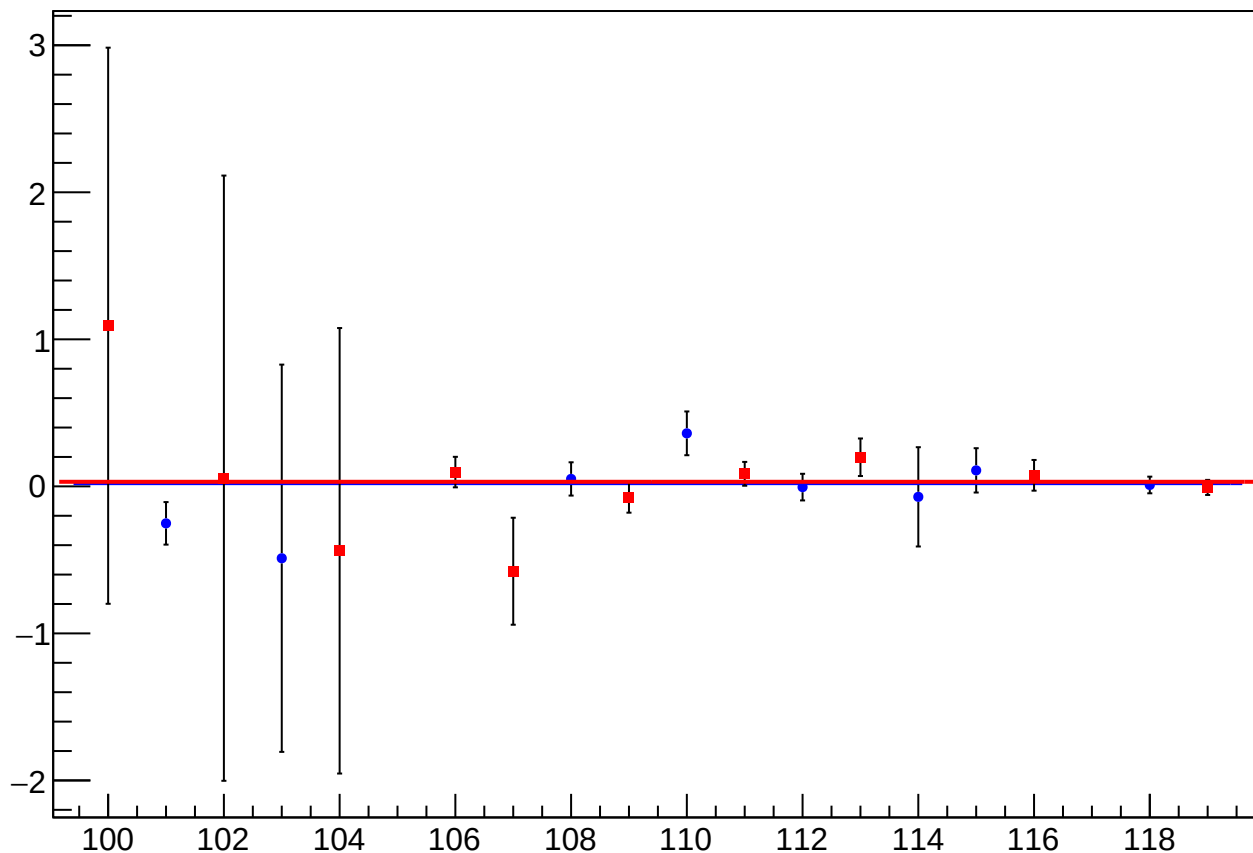
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.207+/-0.018  $\chi^2/\text{NDF}$ : 4065138.8/17

- 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: 0.022 $\pm$ 0.039  $\chi^2$ /NDF: 9.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.031 $\pm$ 0.034  $\chi^2$ /NDF: 7.5/9

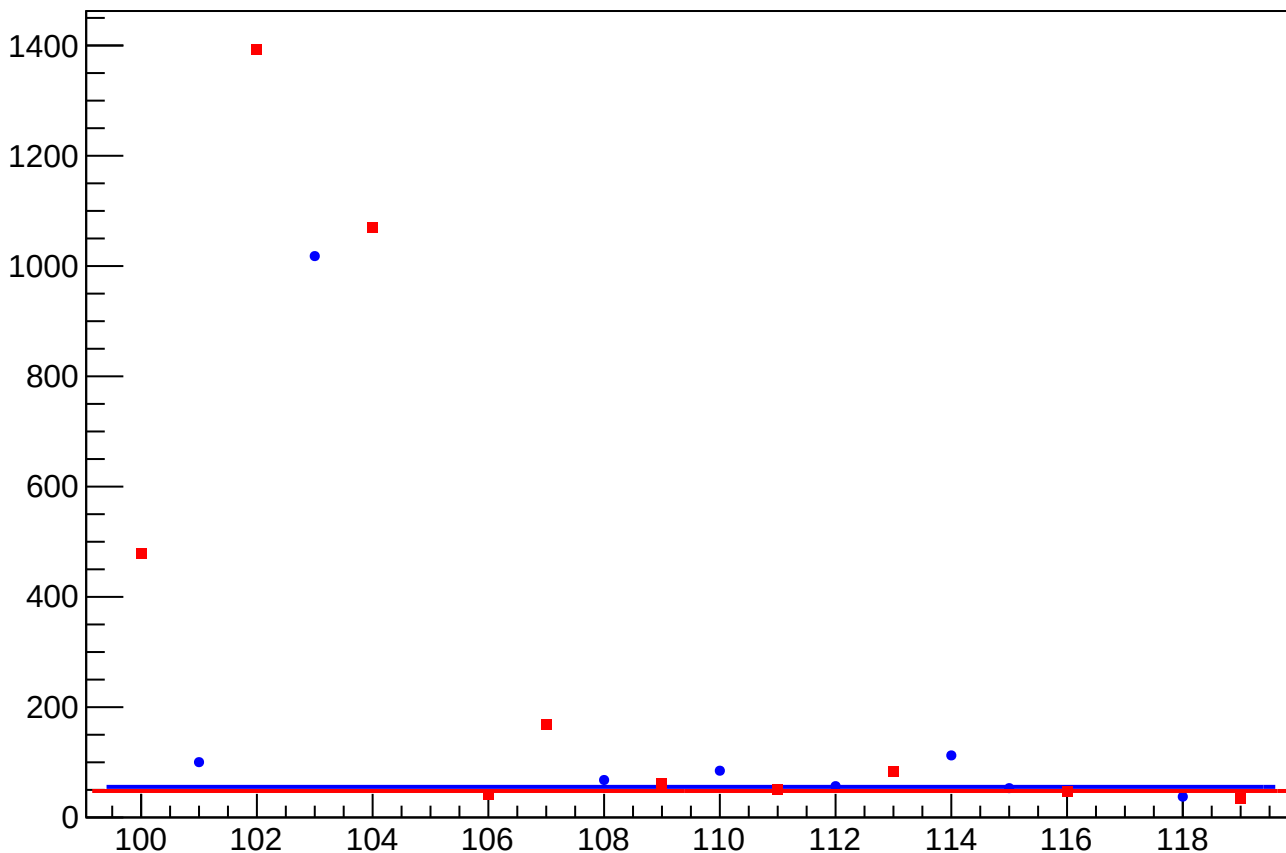
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.026  $\chi^2$ /NDF: 17.1/17

- 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: 55.476+/-0.028  $\chi^2/\text{NDF}$ : 1617475.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.008+/-0.024  $\chi^2/\text{NDF}$ : 2405674.5/9

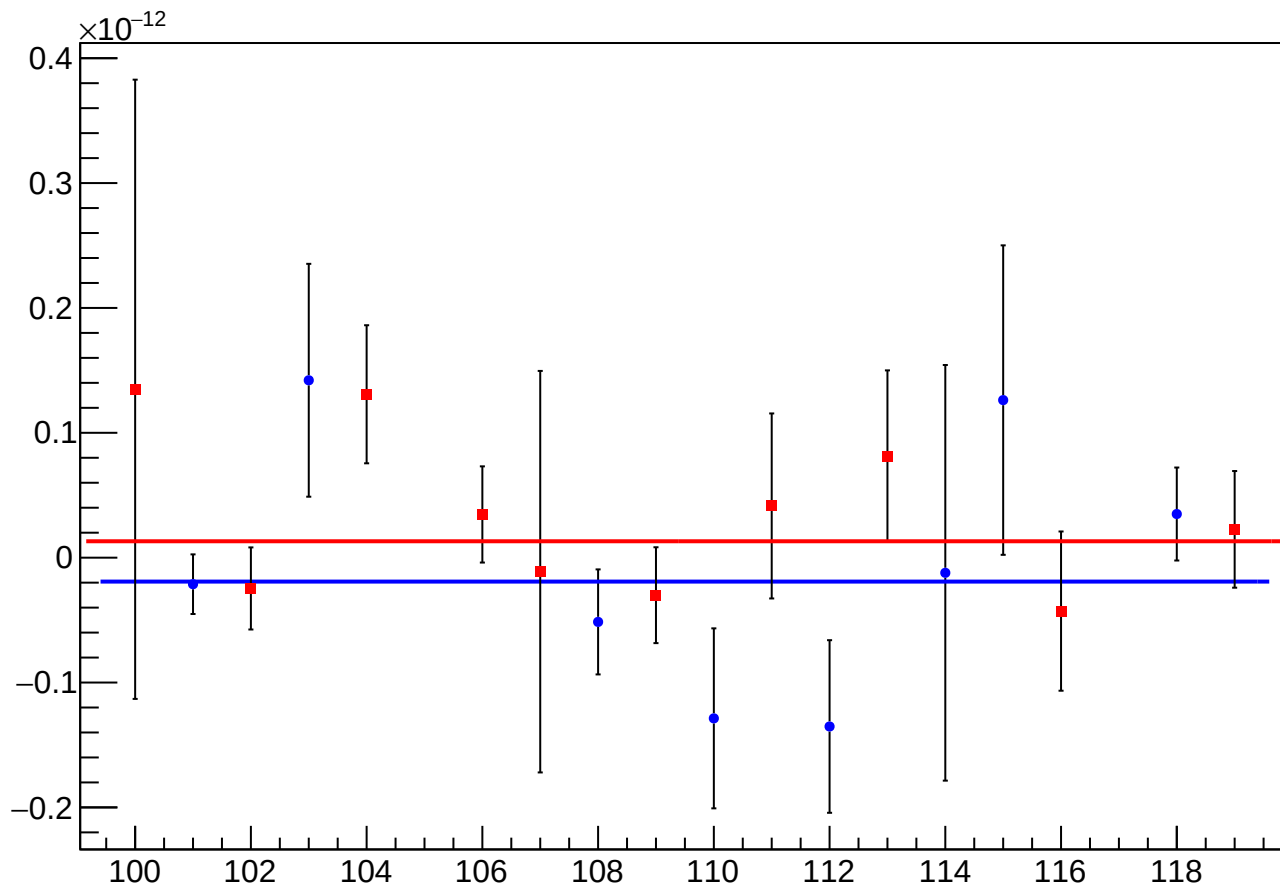
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.207+/-0.018  $\chi^2/\text{NDF}$ : 4065138.8/17

- 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  $\chi^2/\text{NDF}$ : 12.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.6/9

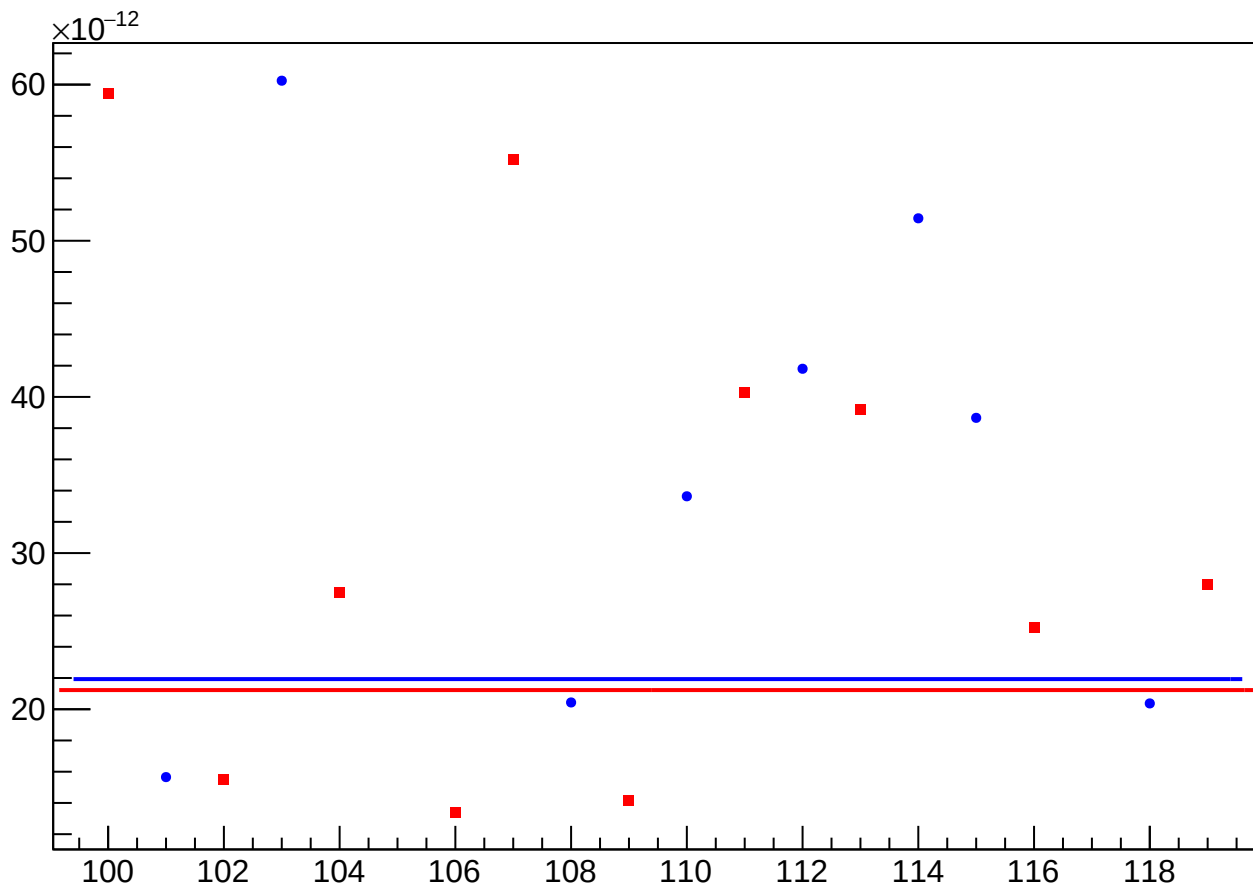
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 23.8/17

- 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  $\chi^2/\text{NDF}$ : 799344.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 692734.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

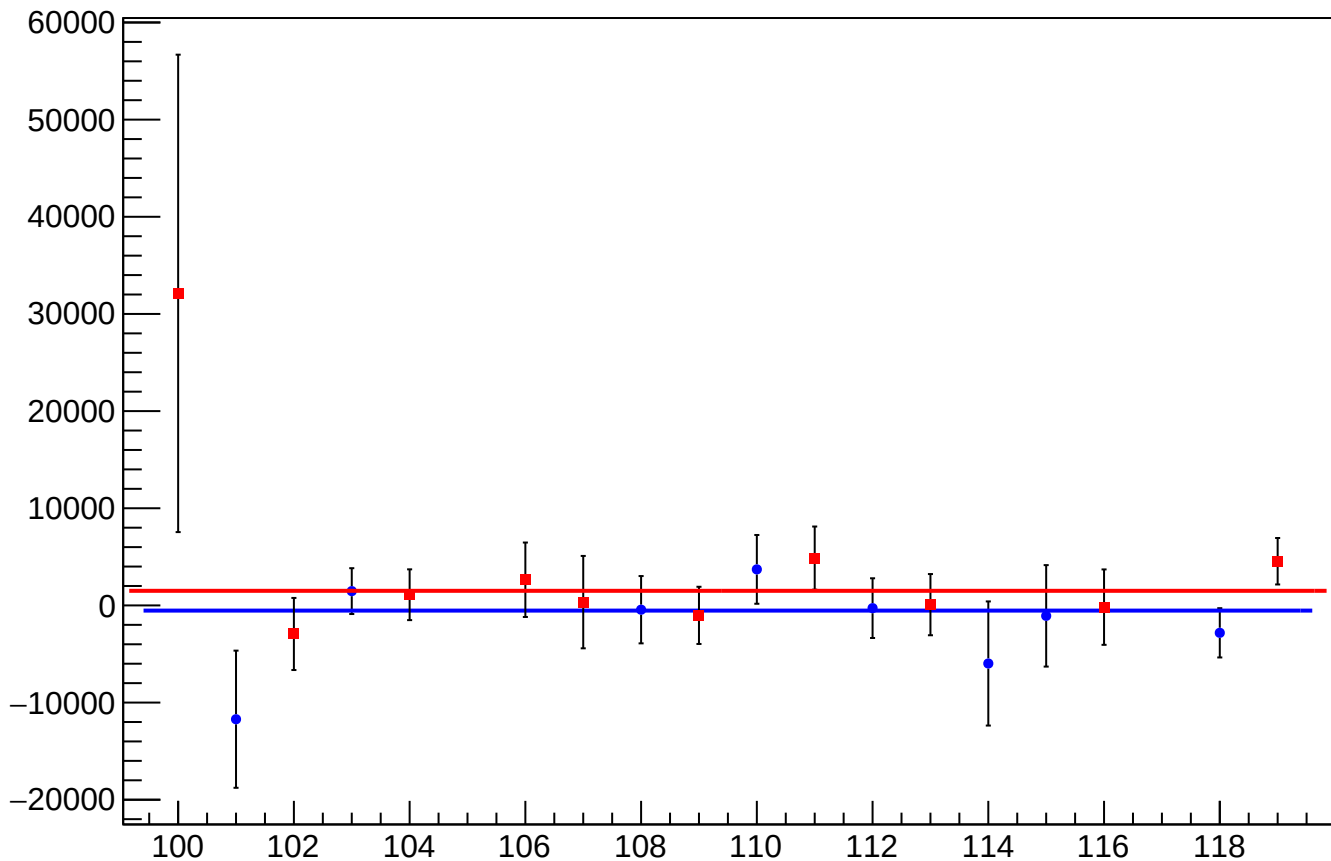
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1493910.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_at1\_dd\_mean vs Slug



Right In:  $-533.318 \pm 1207.595$   $\chi^2/\text{NDF}$ : 6.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1502.543 \pm 1062.741$   $\chi^2/\text{NDF}$ : 7.0/9

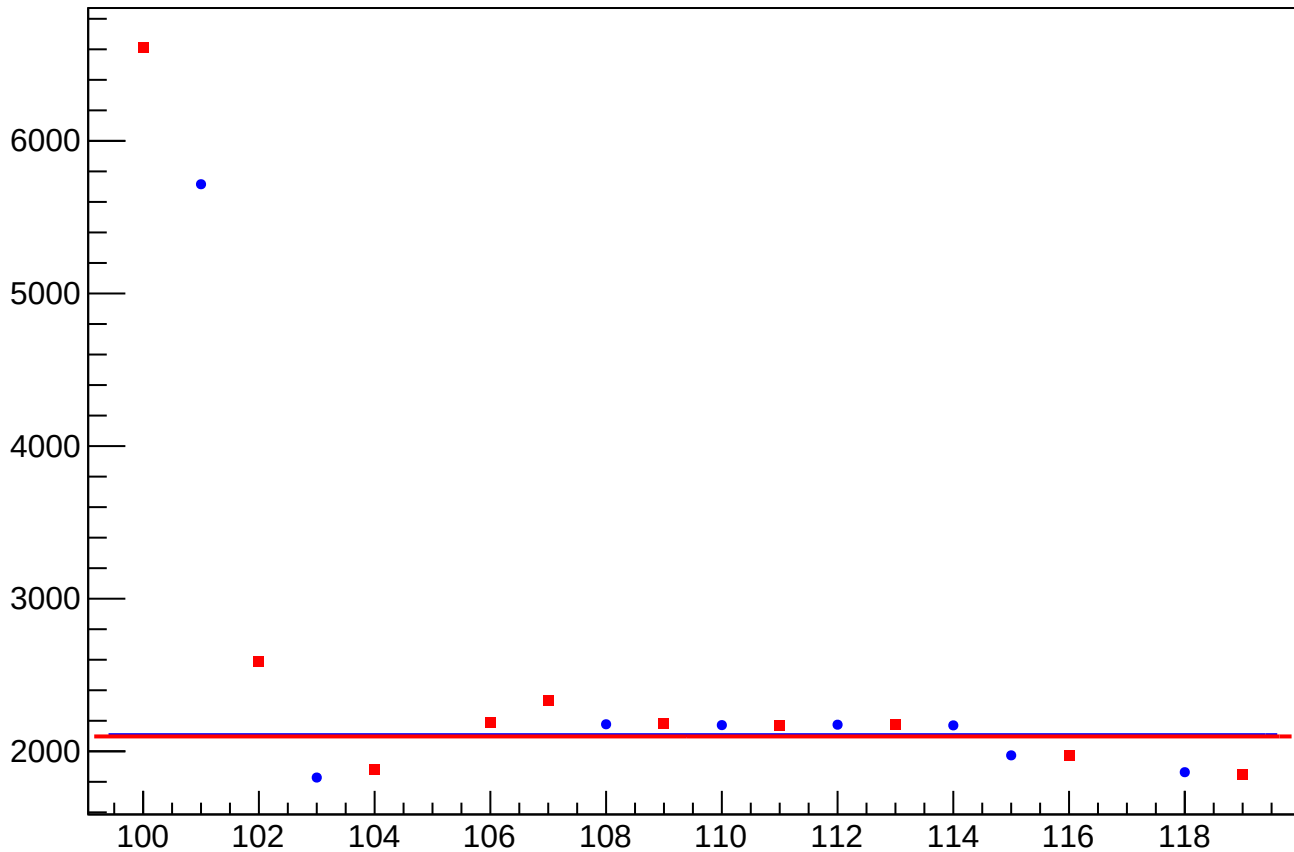
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $613.980 \pm 797.795$   $\chi^2/\text{NDF}$ : 14.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_rms vs Slug



Right In: 2105.728 $\pm$ 0.854  $\chi^2$ /NDF: 573248.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2097.387 $\pm$ 0.751  $\chi^2$ /NDF: 150947.1/9

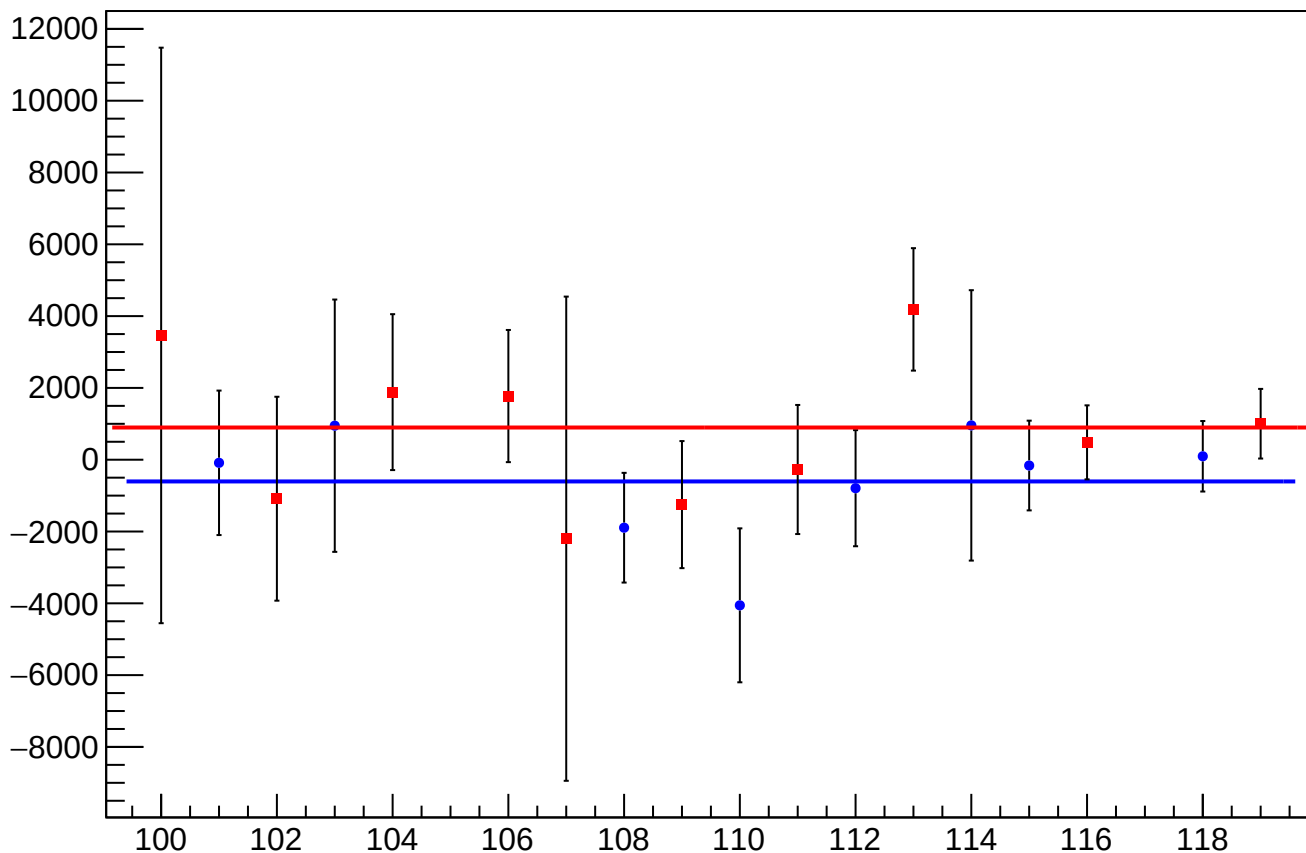
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2101.027 $\pm$ 0.564  $\chi^2$ /NDF: 724249.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_reg\_correction\_mean vs Slug



Right In: -605.086+/-567.567  $\chi^2/\text{NDF}$ : 4.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 897.113+/-523.747  $\chi^2/\text{NDF}$ : 7.0/9

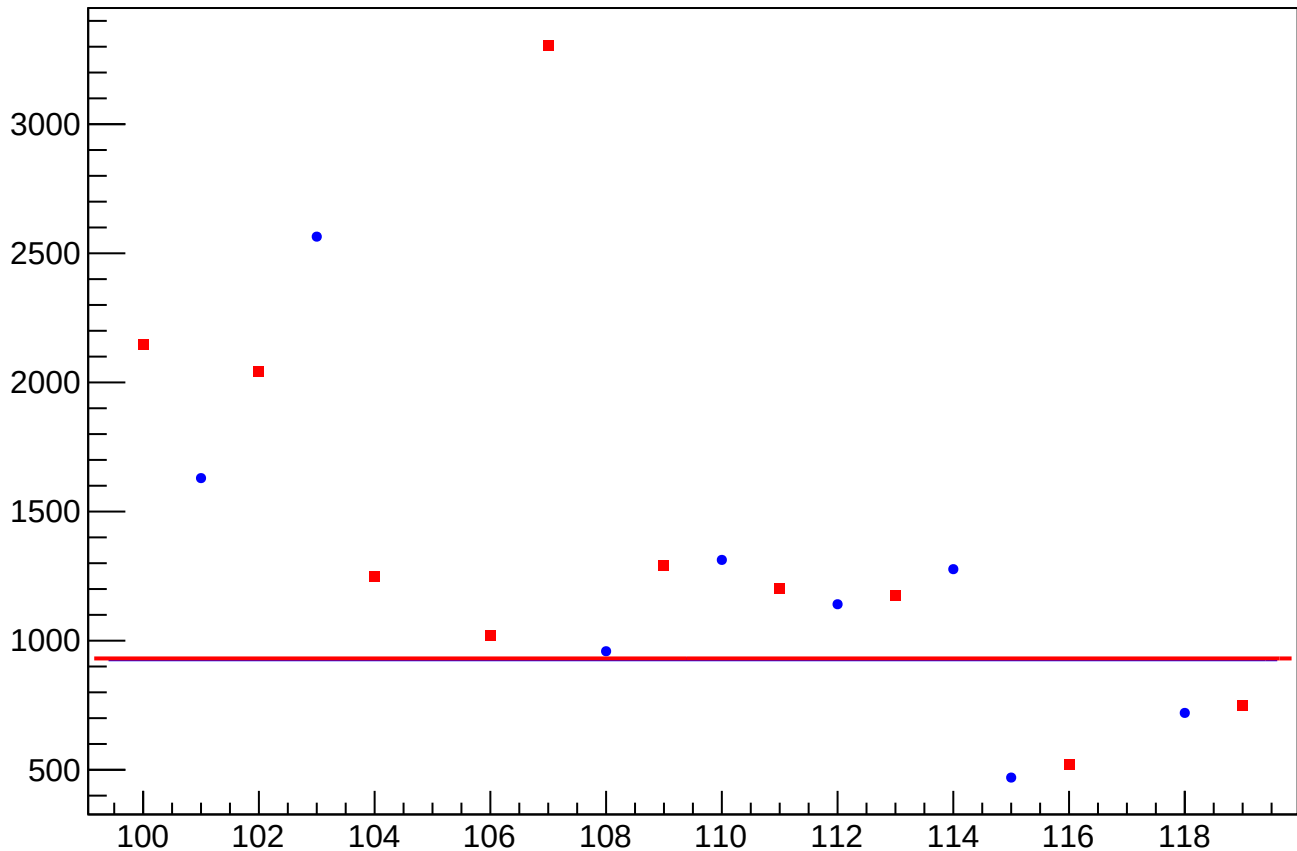
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 206.236+/-384.906  $\chi^2/\text{NDF}$ : 15.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_reg\_correction\_rms vs Slug



Right In: 928.091+/-0.401  $\chi^2/\text{NDF}$ : 1152257.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 931.214+/-0.370  $\chi^2/\text{NDF}$ : 1206889.3/9

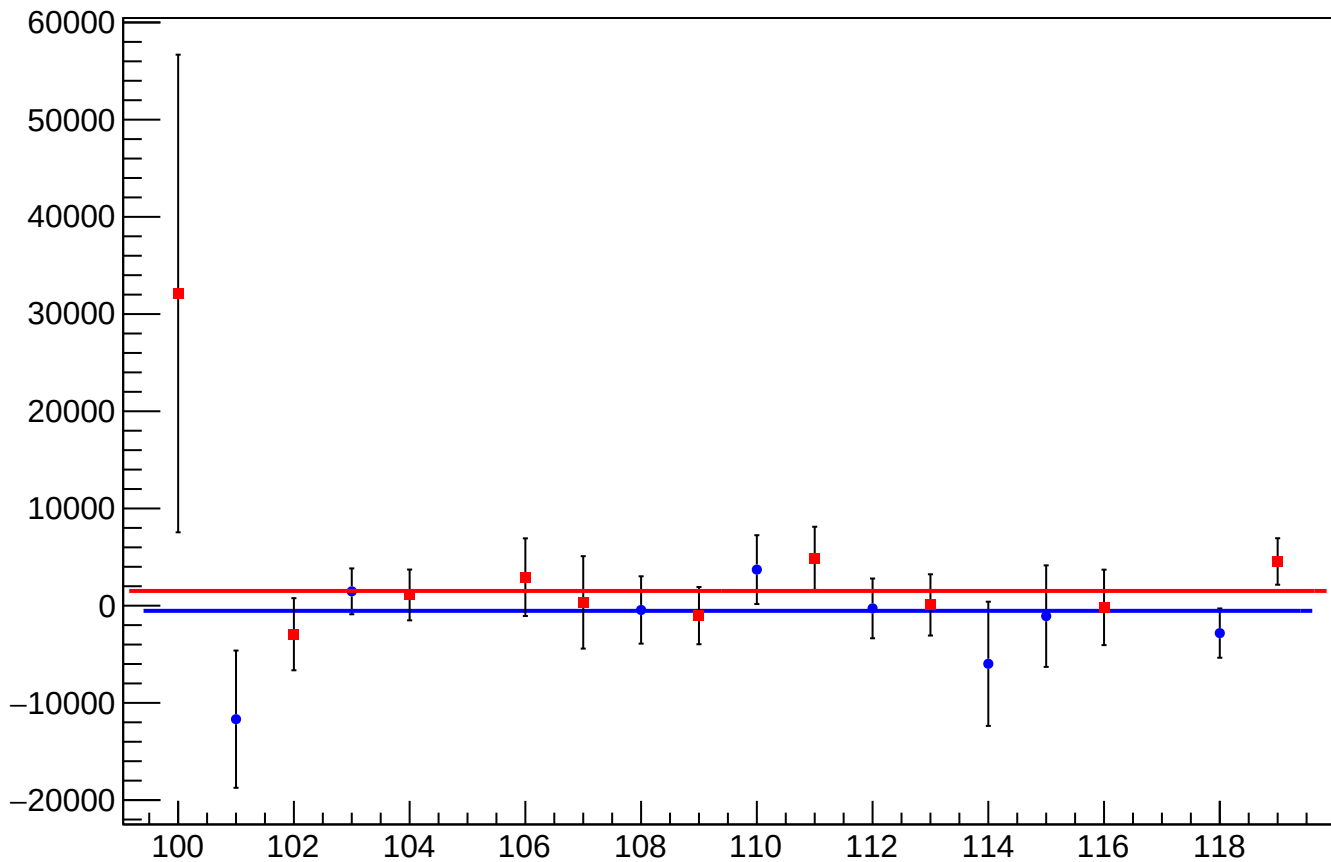
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 929.778+/-0.272  $\chi^2/\text{NDF}$ : 2359179.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_at1\_dd\_mean vs Slug



Right In: -531.383+/-1207.595  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1517.646+/-1065.982  $\chi^2/\text{NDF}$ : 7.0/9

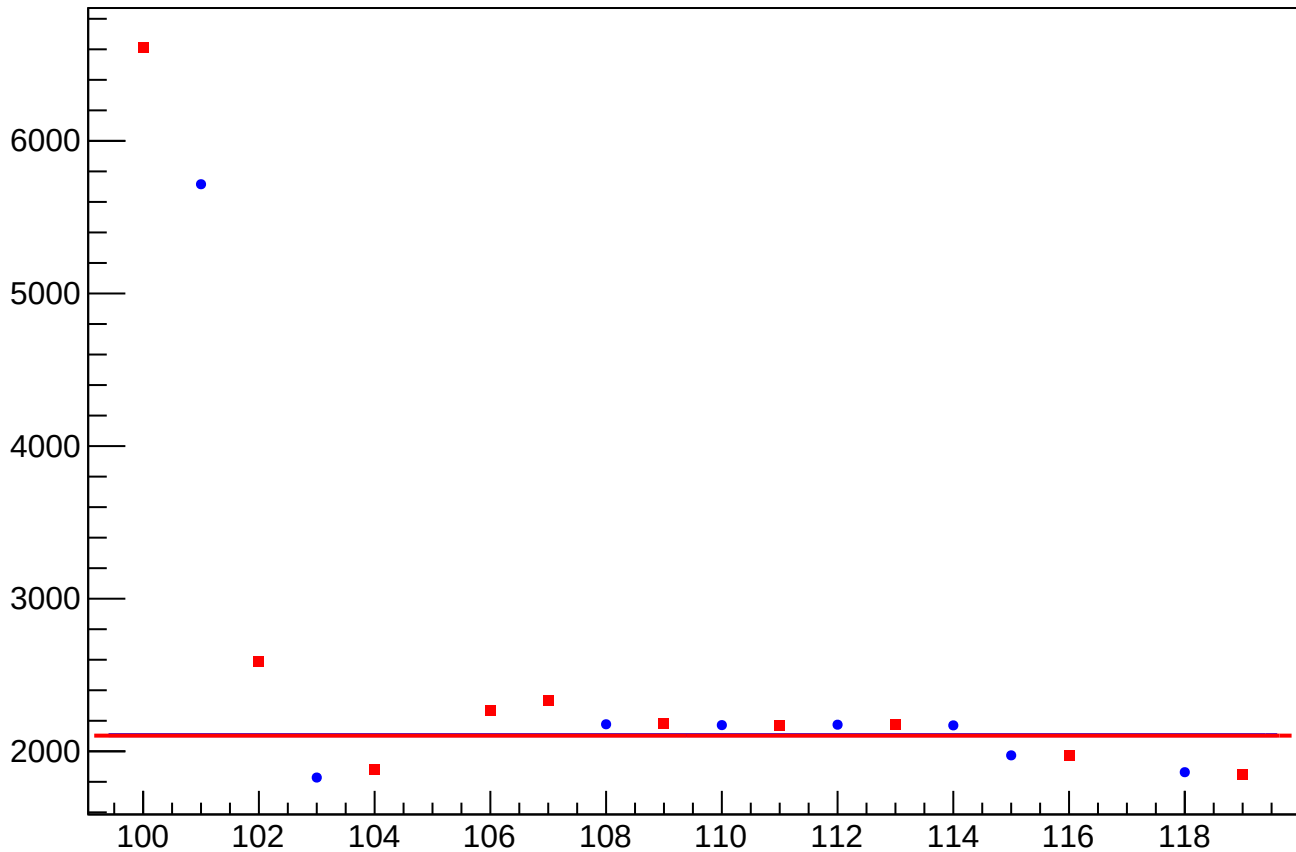
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 620.265+/-799.164  $\chi^2/\text{NDF}$ : 14.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_at1\_dd\_rms vs Slug



Right In: 2105.728 $\pm$ 0.854  $\chi^2$ /NDF: 573248.1/7

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

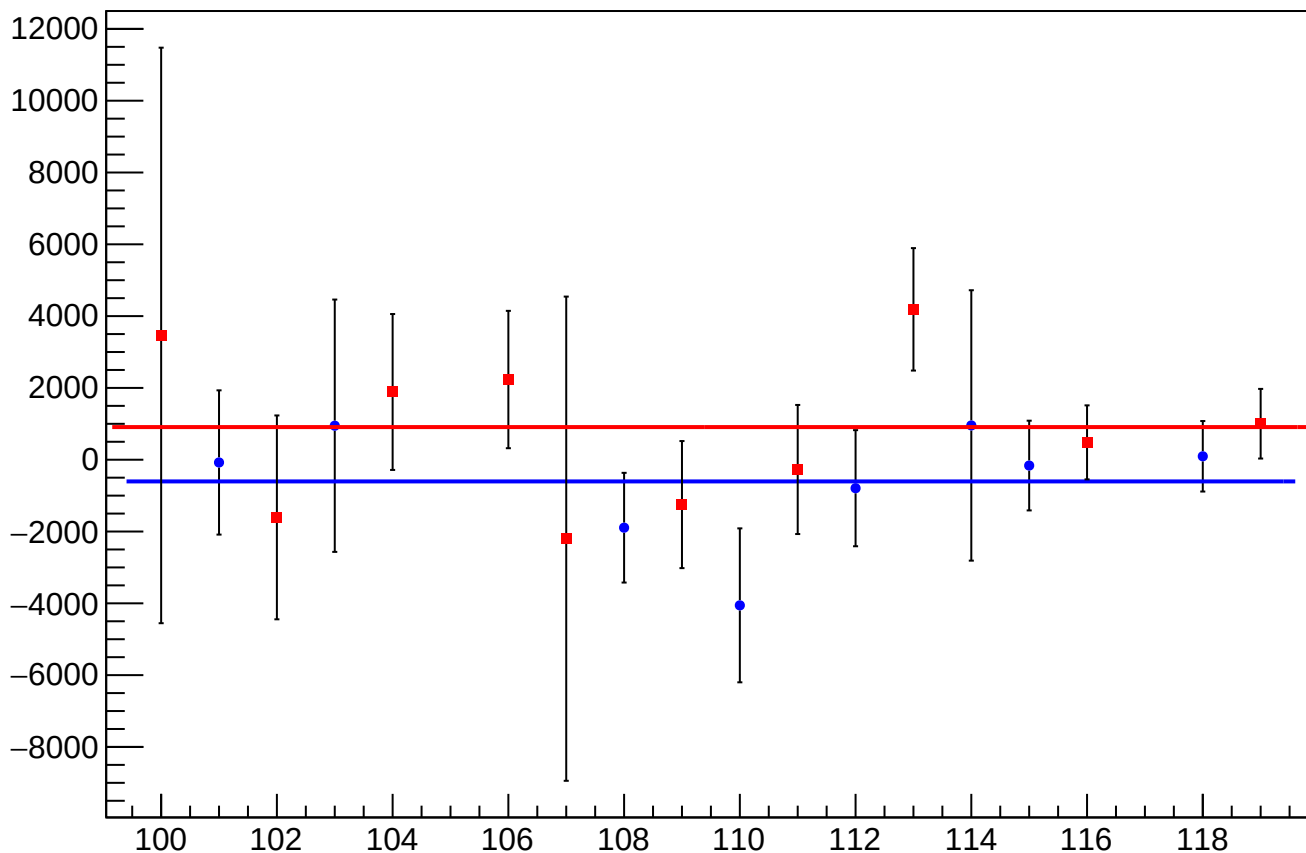
Right Out: 2102.679 $\pm$ 0.754  $\chi^2$ /NDF: 153501.2/9

All: 2104.014 $\pm$ 0.565  $\chi^2$ /NDF: 726756.4/17

- 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\_at1\_dd\_cor\_correction\_mean vs Slug



Right In: -604.332+/-567.489  $\chi^2/\text{NDF}$ : 4.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 909.185+/-525.309  $\chi^2/\text{NDF}$ : 7.6/9

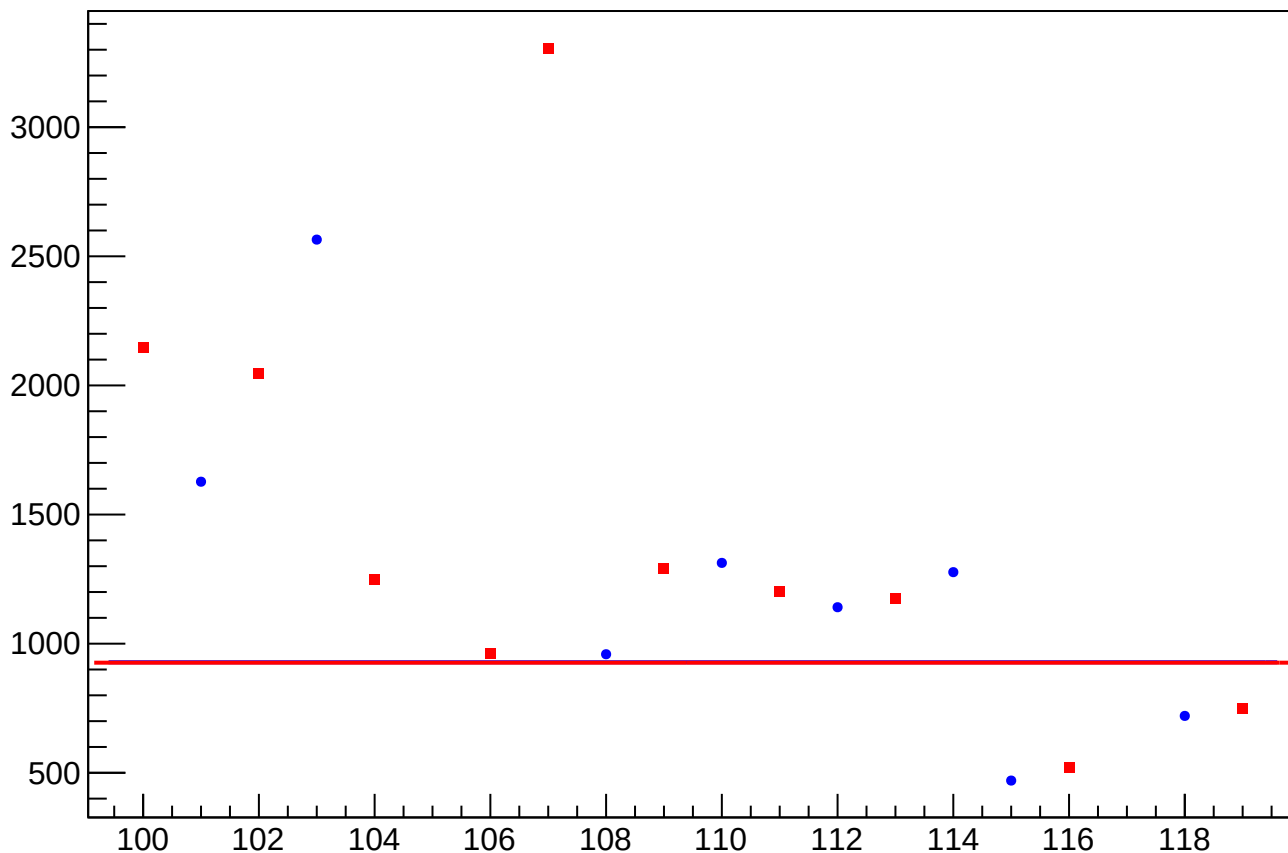
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 210.760+/-385.500  $\chi^2/\text{NDF}$ : 15.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_cor\_correction\_rms vs Slug



Right In: 928.037 $\pm$ 0.401  $\chi^2$ /NDF: 1151440.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 926.392 $\pm$ 0.371  $\chi^2$ /NDF: 1204733.5/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

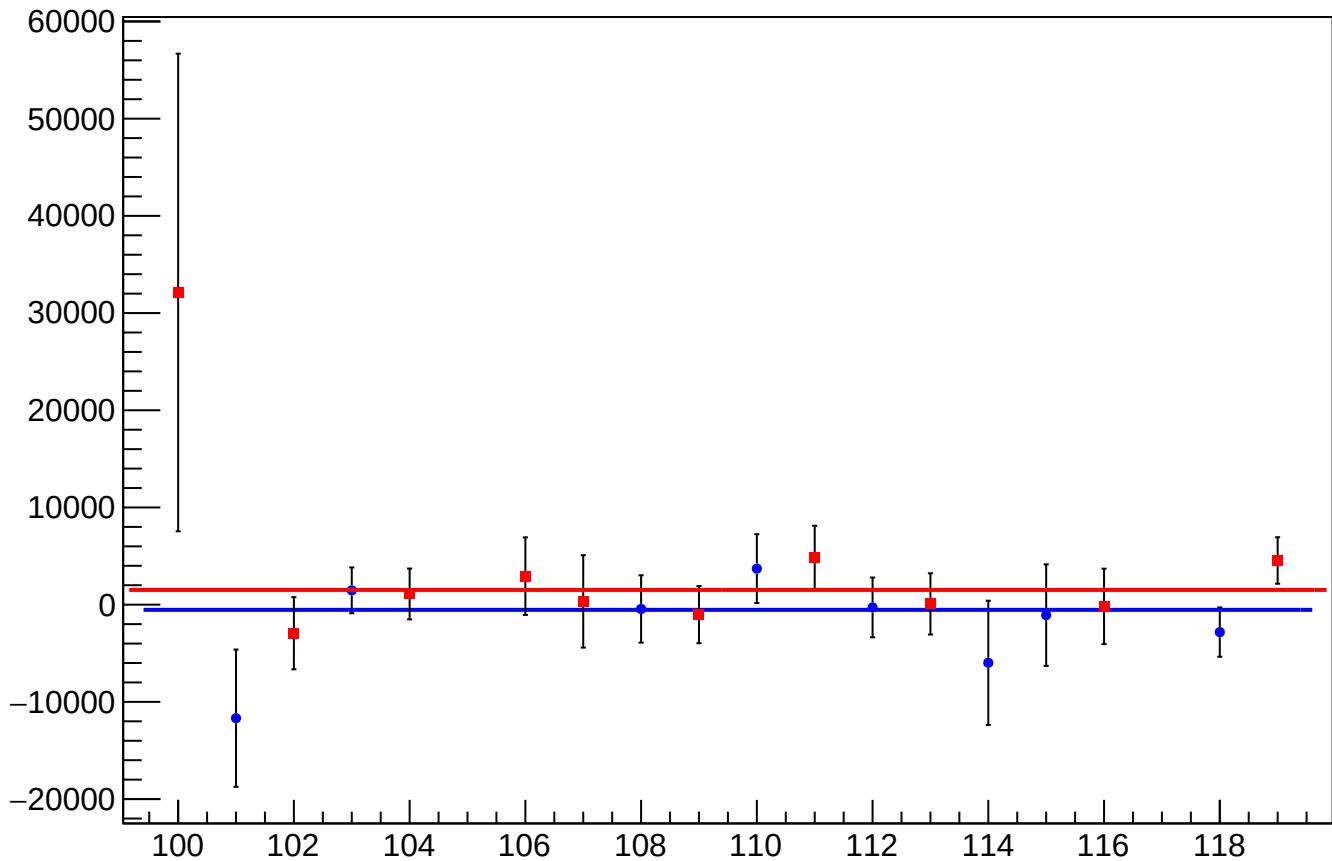
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 927.151 $\pm$ 0.273  $\chi^2$ /NDF: 2356183.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_cor\_asym\_at1\_dd\_mean vs Slug



Right In: -531.383+/-1207.595  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1517.646+/-1065.982  $\chi^2/\text{NDF}$ : 7.0/9

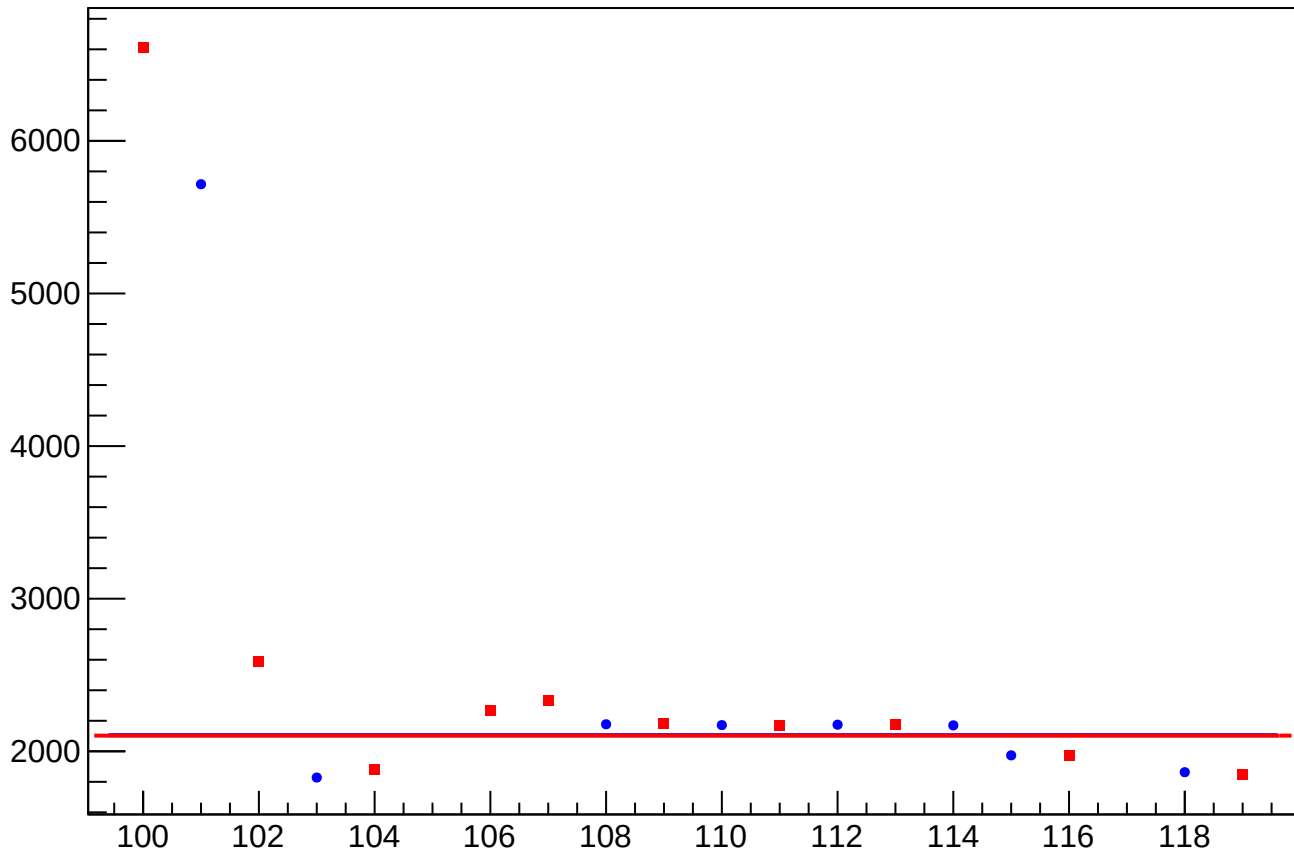
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 620.265+/-799.164  $\chi^2/\text{NDF}$ : 14.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_at1\_dd\_rms vs Slug



Right In: 2105.728+/-0.854  $\chi^2/\text{NDF}$ : 573248.1/7

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

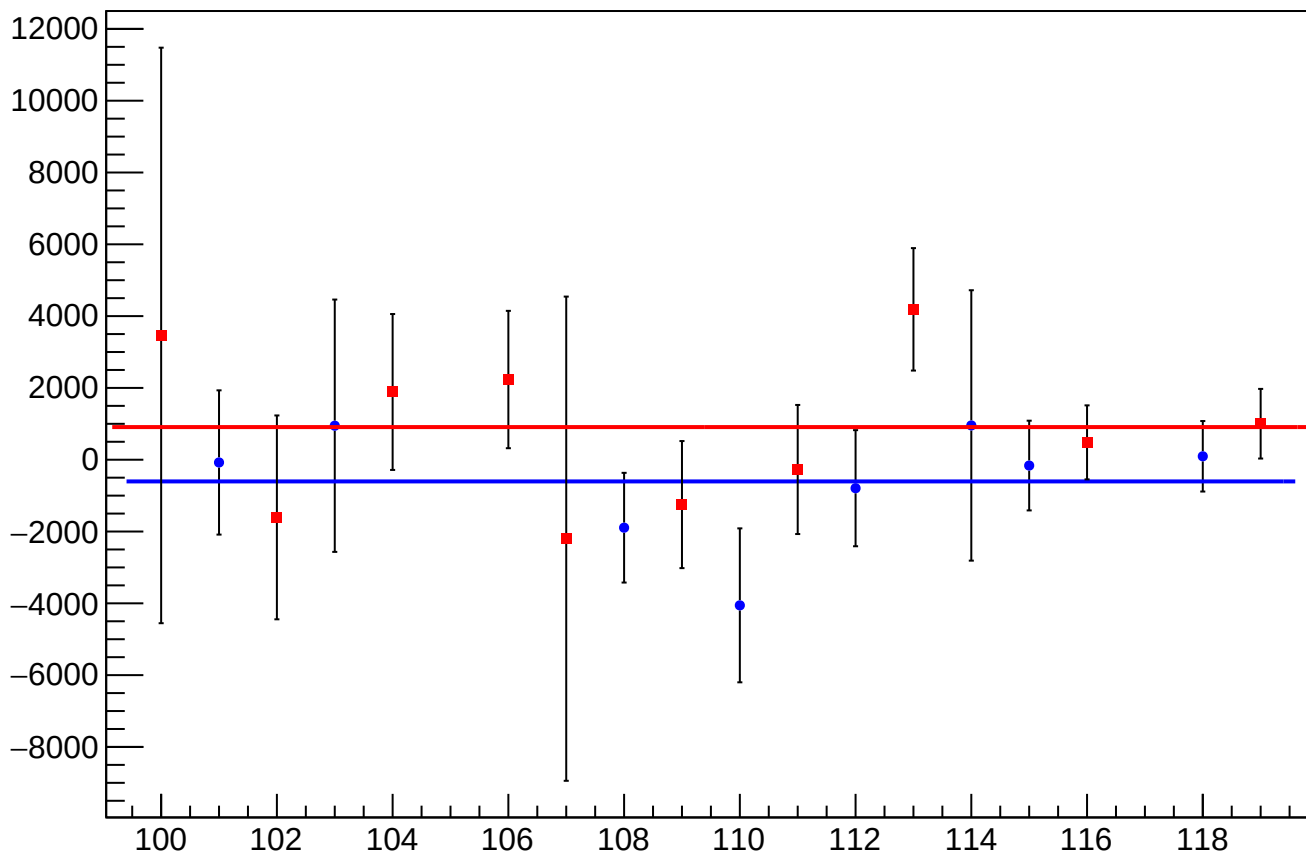
Right Out: 2102.679+/-0.754  $\chi^2/\text{NDF}$ : 153501.2/9

All: 2104.014+/-0.565  $\chi^2/\text{NDF}$ : 726756.4/17

- 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\_at1\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -604.332 $\pm$ 567.489  $\chi^2$ /NDF: 4.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 909.185 $\pm$ 525.309  $\chi^2$ /NDF: 7.6/9

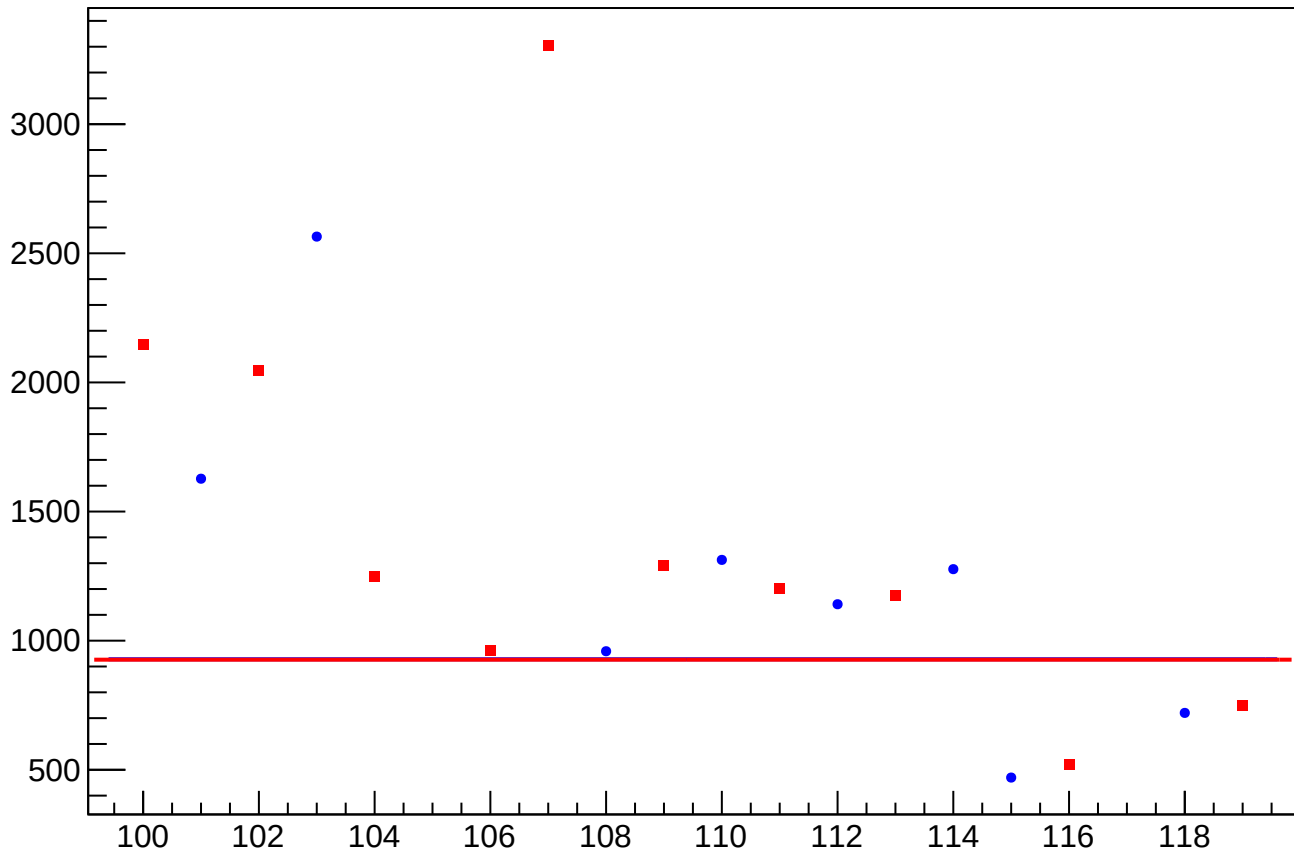
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 210.760 $\pm$ 385.500  $\chi^2$ /NDF: 15.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 928.037 $\pm$ 0.401  $\chi^2$ /NDF: 1151440.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 926.392 $\pm$ 0.371  $\chi^2$ /NDF: 1204733.5/9

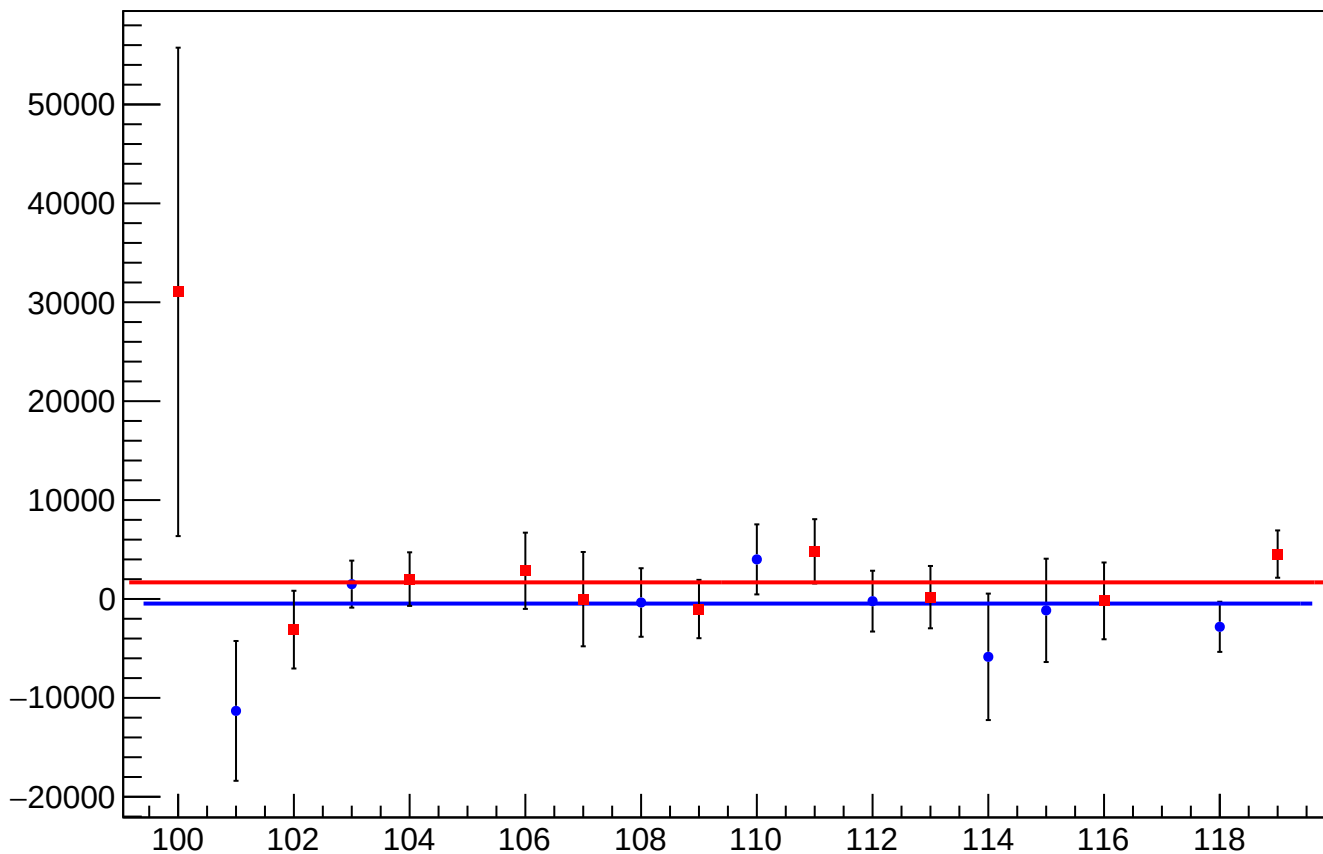
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 927.151 $\pm$ 0.273  $\chi^2$ /NDF: 2356183.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_at1\_dd\_mean vs Slug



Right In:  $-464.809 \pm 1210.394$   $\chi^2/\text{NDF}$ : 6.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1679.989 \pm 1074.928$   $\chi^2/\text{NDF}$ : 6.8/9

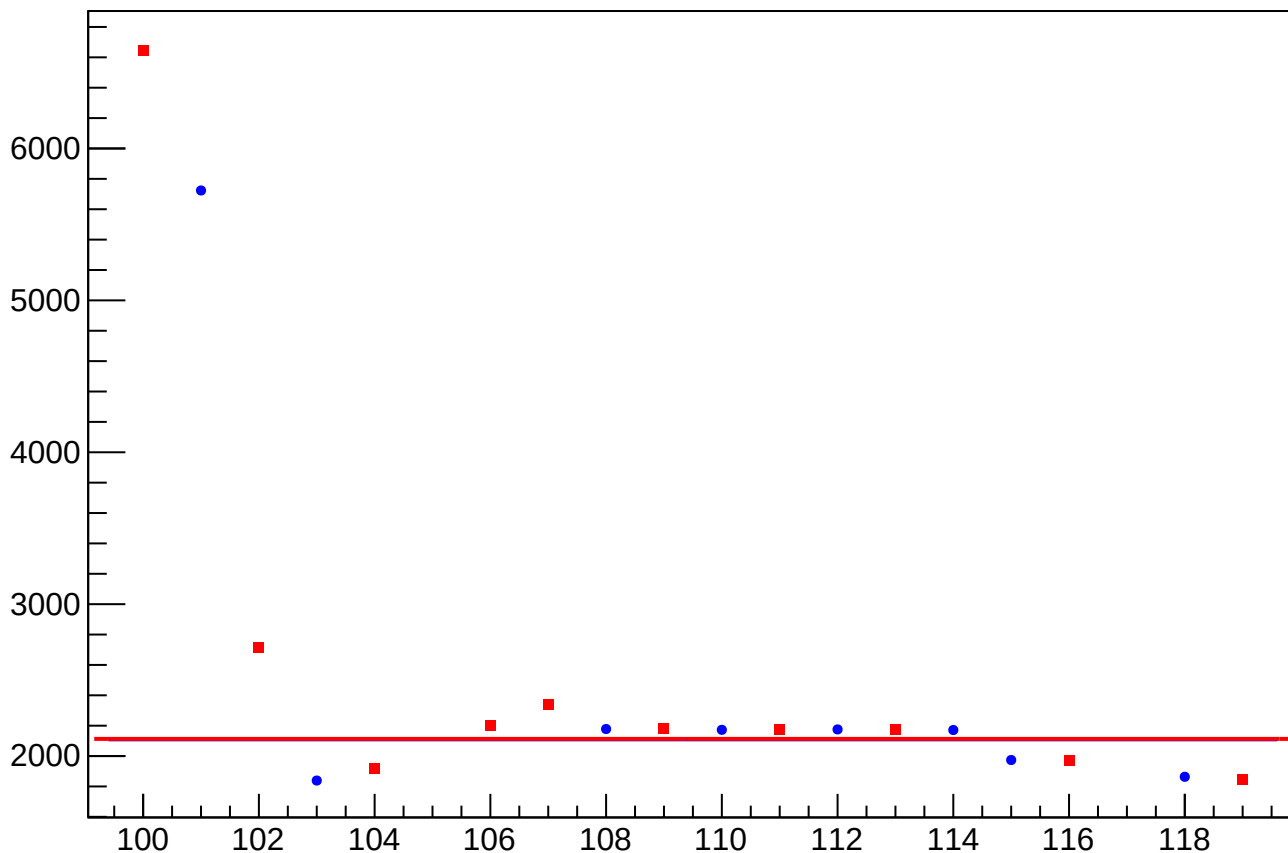
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $734.281 \pm 803.733$   $\chi^2/\text{NDF}$ : 14.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_at1\_dd\_rms vs Slug



Right In: 2110.180+/-0.856  $\chi^2/\text{NDF}$ : 571506.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2113.017+/-0.760  $\chi^2/\text{NDF}$ : 159643.8/9

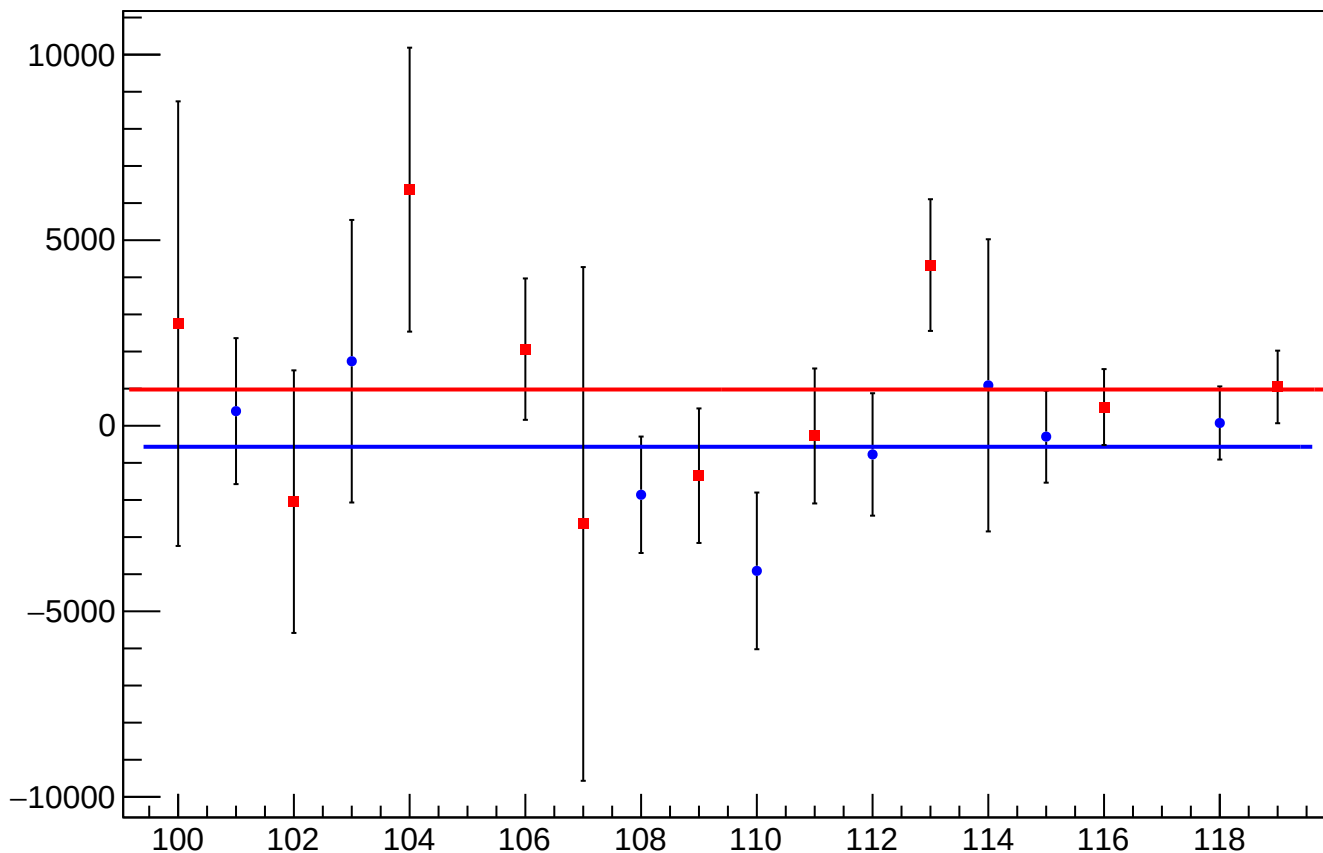
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2111.766+/-0.568  $\chi^2/\text{NDF}$ : 731156.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_dit\_correction\_mean vs Slug



Right In: -566.569+/-570.760  $\chi^2/\text{NDF}$ : 4.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 976.747+/-542.451  $\chi^2/\text{NDF}$ : 9.3/9

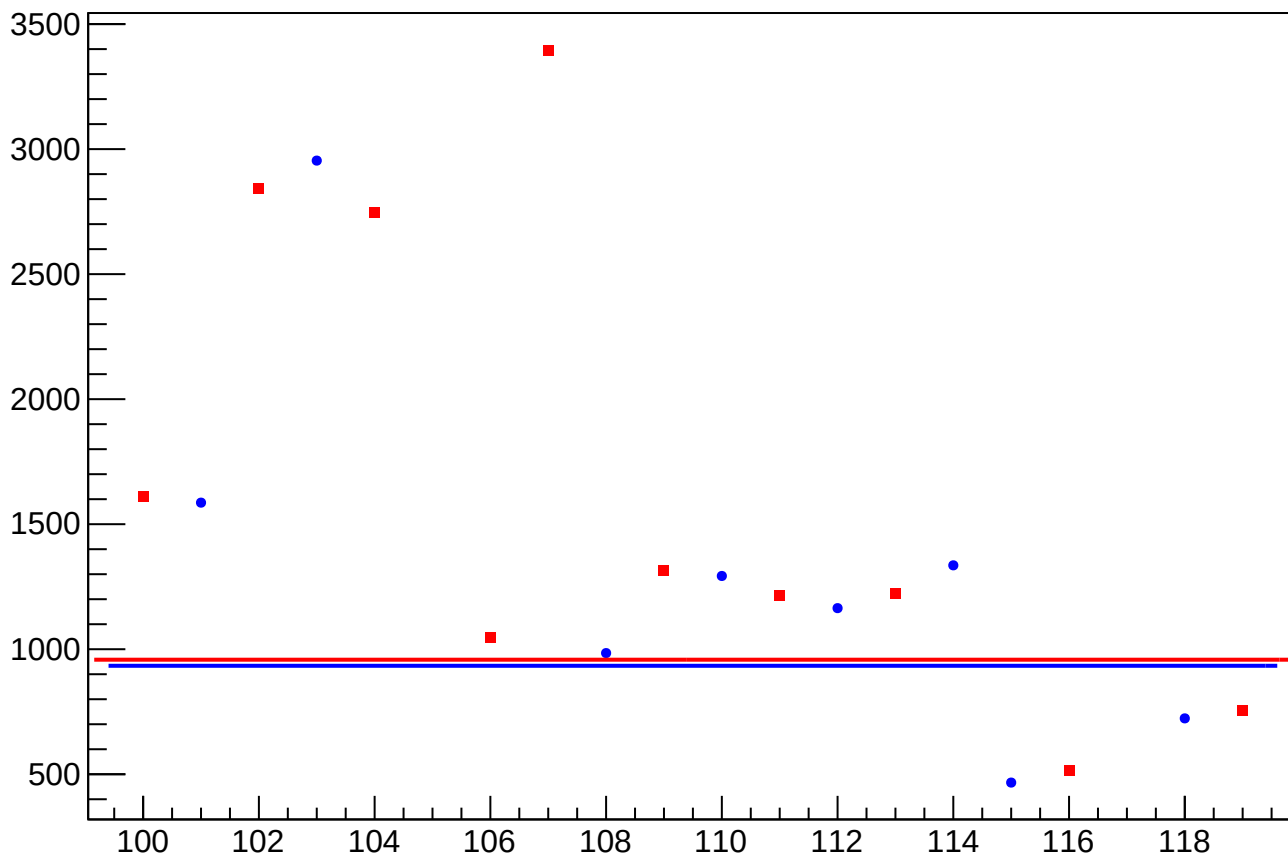
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 244.311+/-393.198  $\chi^2/\text{NDF}$ : 17.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_dit\_correction\_rms vs Slug



Right In: 933.755+/-0.404     $\chi^2/\text{NDF}$ : 1277887.7/7

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 958.084+/-0.384     $\chi^2/\text{NDF}$ : 1903649.3/9

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

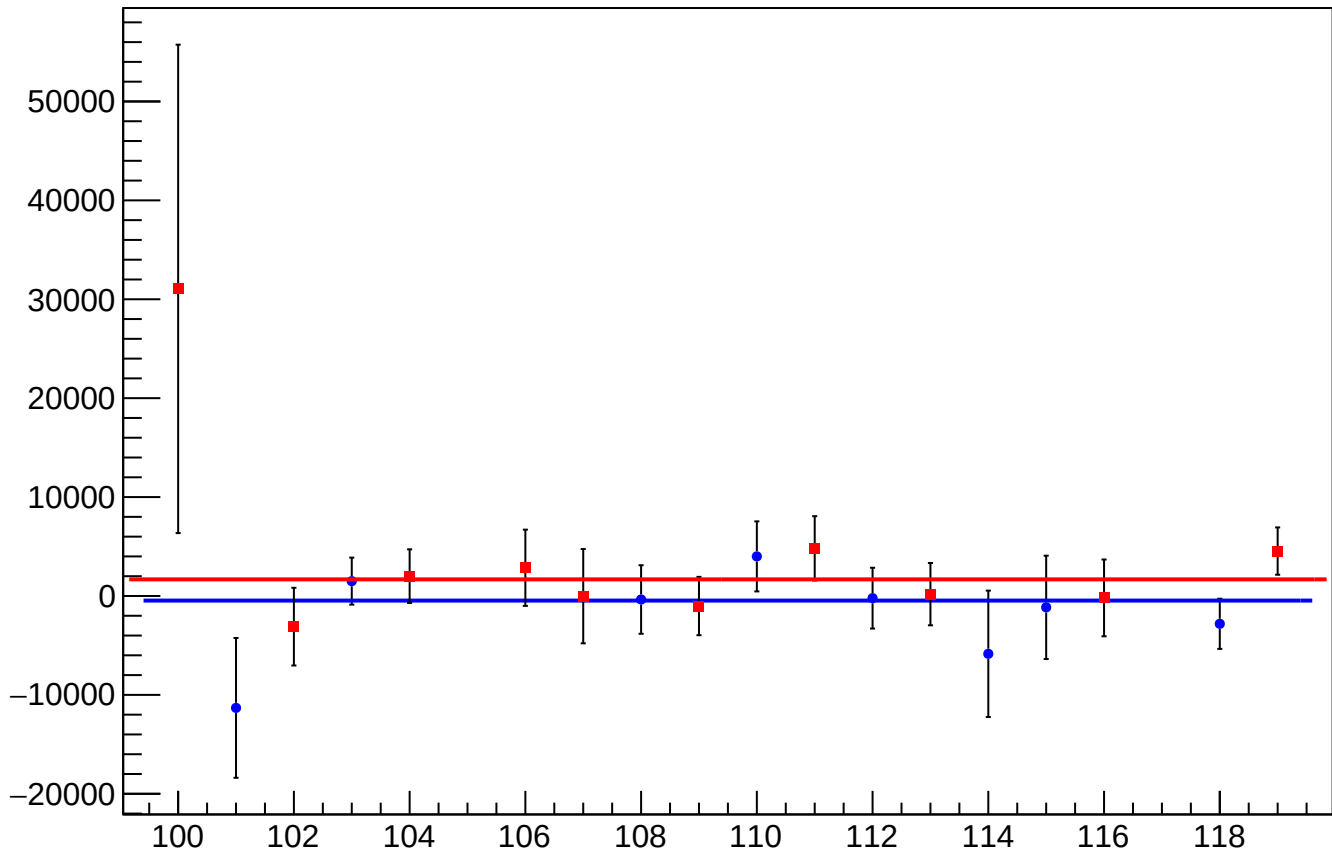
+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 946.538+/-0.278     $\chi^2/\text{NDF}$ : 3183446.4/17

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_at1\_dd\_mean vs Slug



Right In: -464.810+/-1210.394  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1679.990+/-1074.928  $\chi^2/\text{NDF}$ : 6.8/9

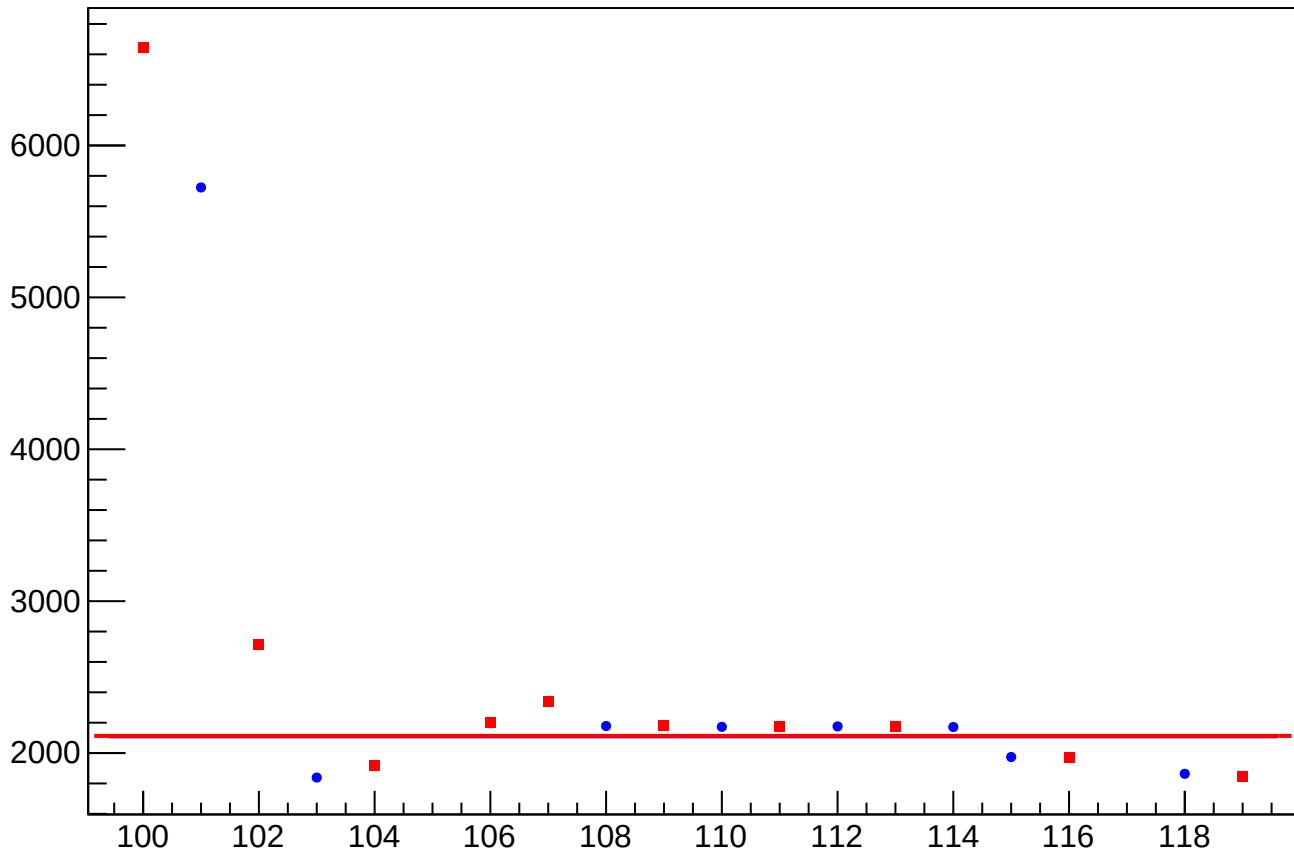
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 734.281+/-803.733  $\chi^2/\text{NDF}$ : 14.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_at1\_dd\_rms vs Slug



Right In: 2110.180+/-0.856  $\chi^2/\text{NDF}$ : 571507.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2113.017+/-0.760  $\chi^2/\text{NDF}$ : 159643.7/9

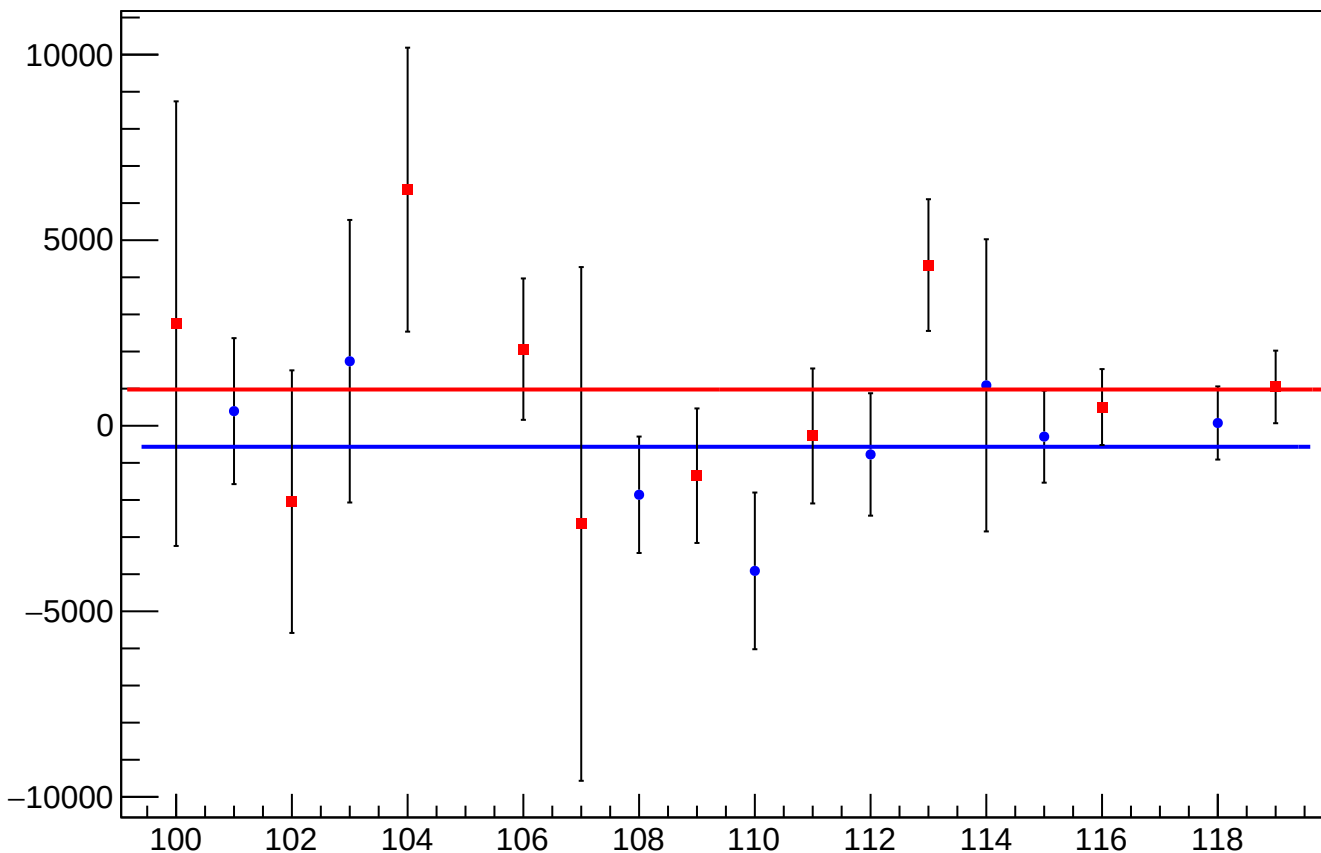
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2111.766+/-0.568  $\chi^2/\text{NDF}$ : 731156.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -566.570+/-570.759  $\chi^2/\text{NDF}$ : 4.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 976.745+/-542.450  $\chi^2/\text{NDF}$ : 9.3/9

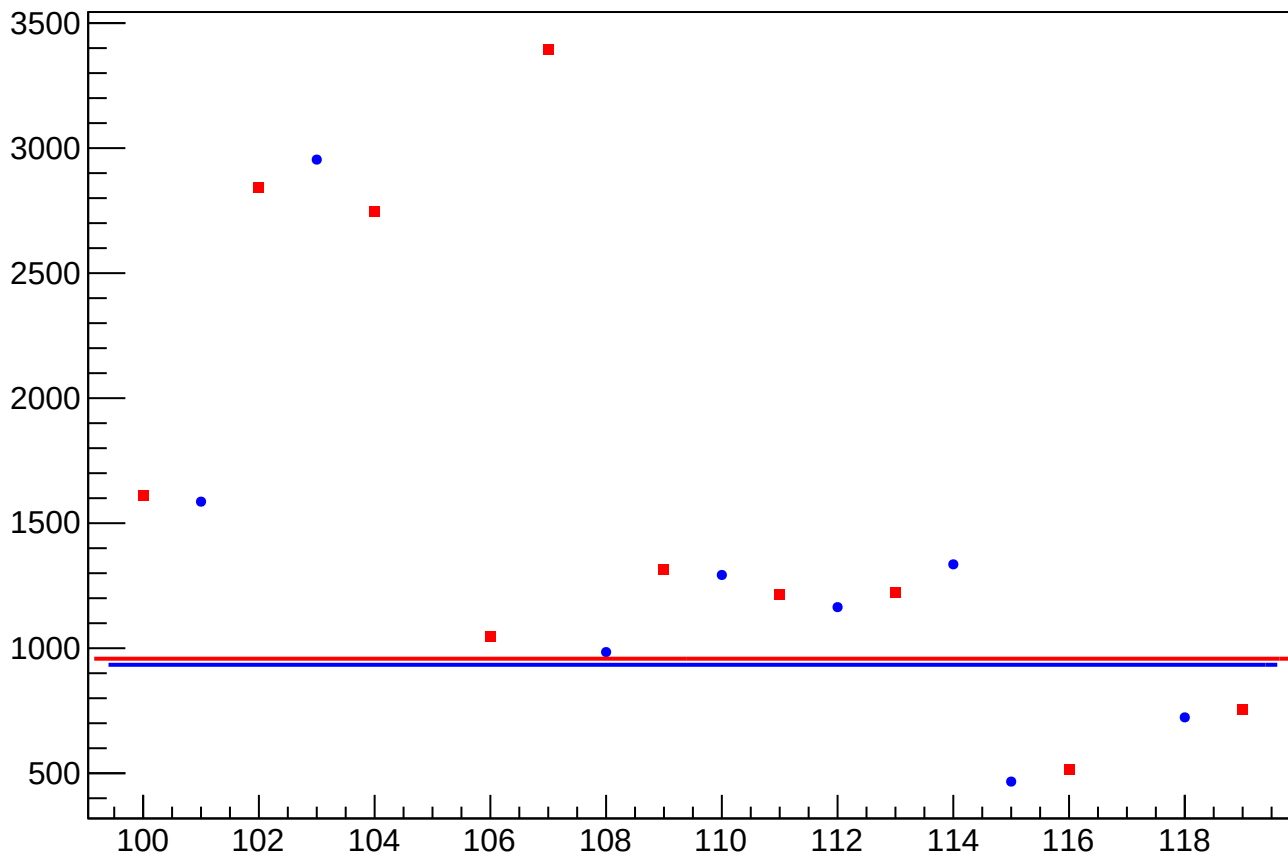
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 244.309+/-393.197  $\chi^2/\text{NDF}$ : 17.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 933.754+/-0.404     $\chi^2/\text{NDF}$ : 1277892.4/7

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 958.083+/-0.384     $\chi^2/\text{NDF}$ : 1903655.4/9

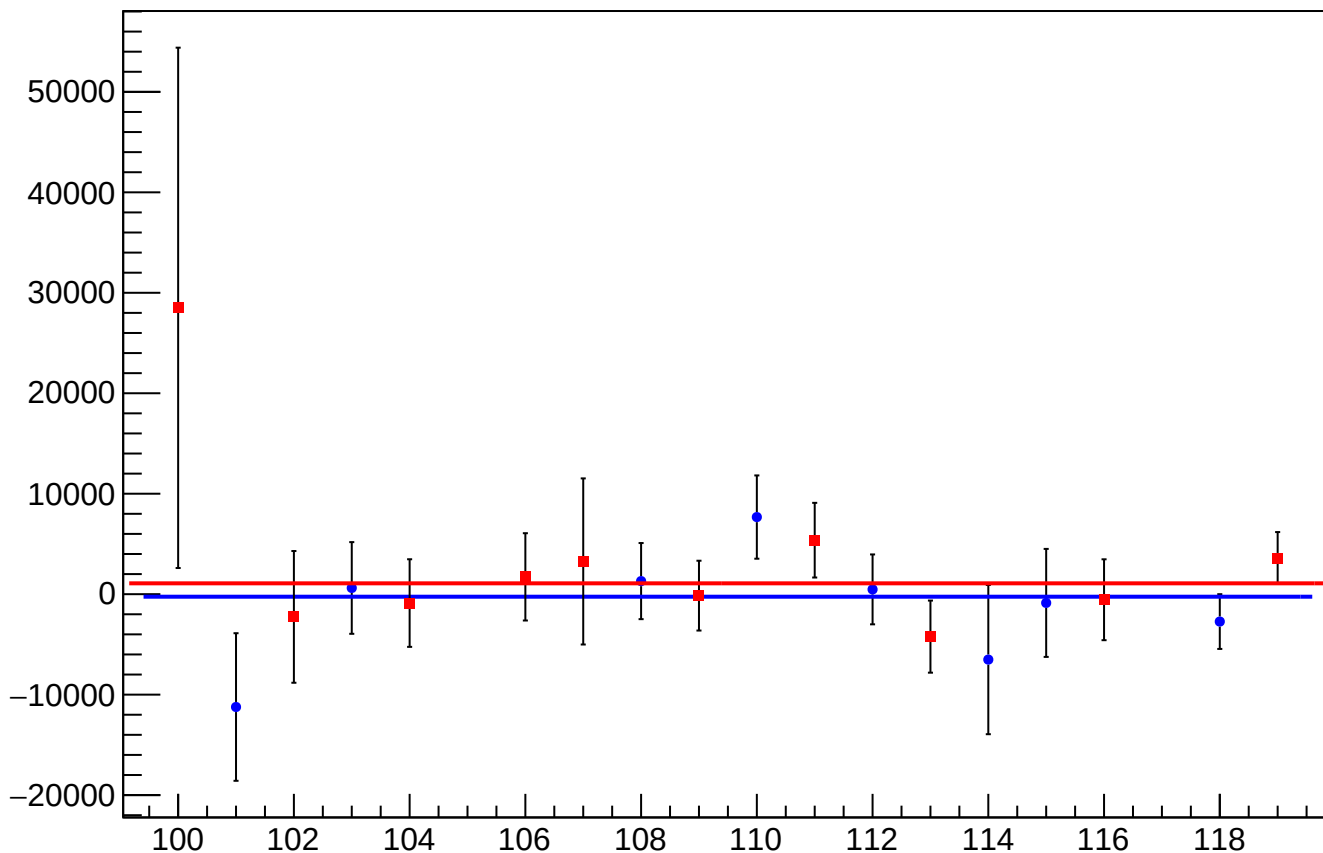
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 946.536+/-0.278     $\chi^2/\text{NDF}$ : 3183457.1/17

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_mean vs Slug



Right In: -251.672+/-1467.217  $\chi^2/\text{NDF}$ : 7.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1080.296+/-1302.564  $\chi^2/\text{NDF}$ : 6.4/9

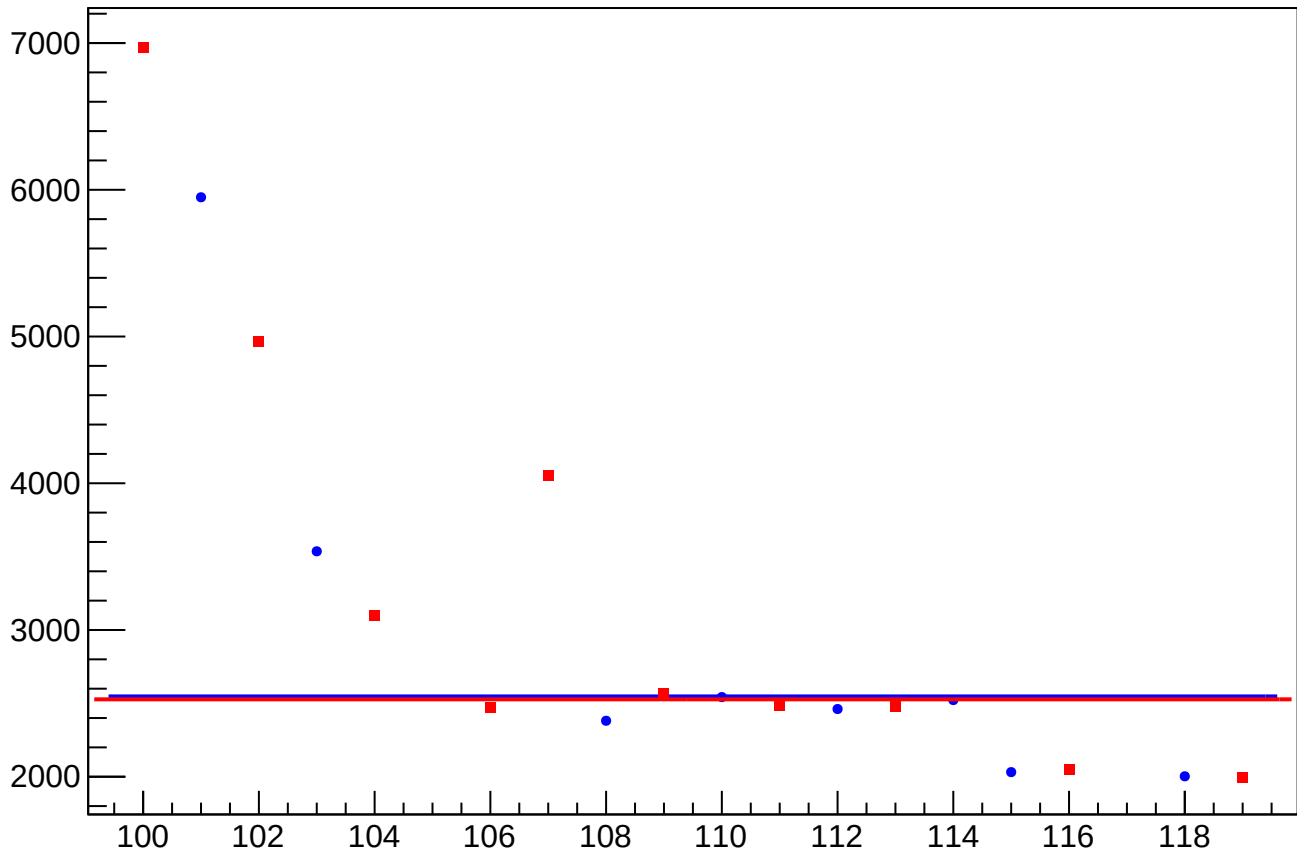
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 493.213+/-974.085  $\chi^2/\text{NDF}$ : 14.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_rms vs Slug



Right In: 2547.226+/-1.037  $\chi^2/\text{NDF}$ : 626220.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2527.471+/-0.921  $\chi^2/\text{NDF}$ : 553978.4/9

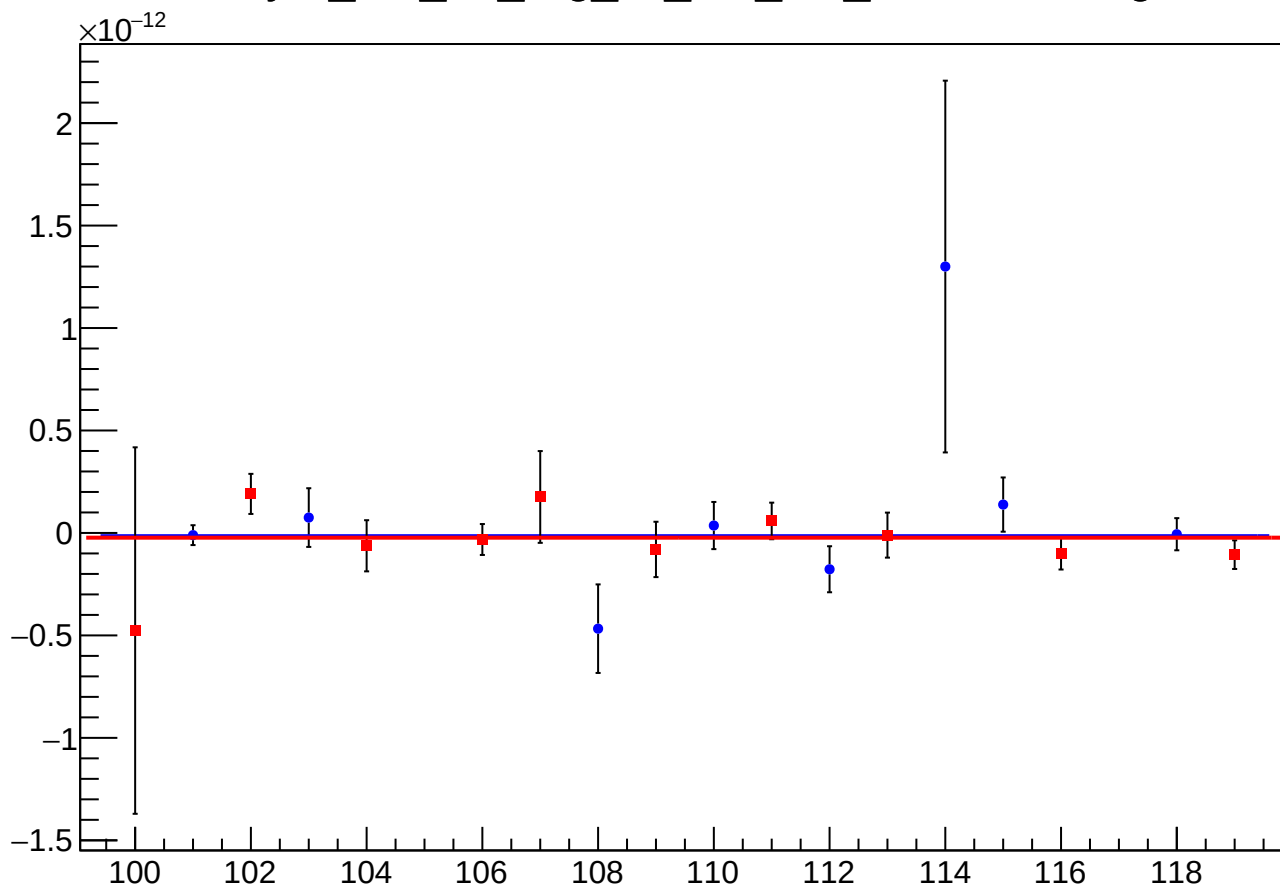
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2536.178+/-0.689  $\chi^2/\text{NDF}$ : 1180401.6/17

- 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  $\chi^2/\text{NDF}$ : 10.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.4/9

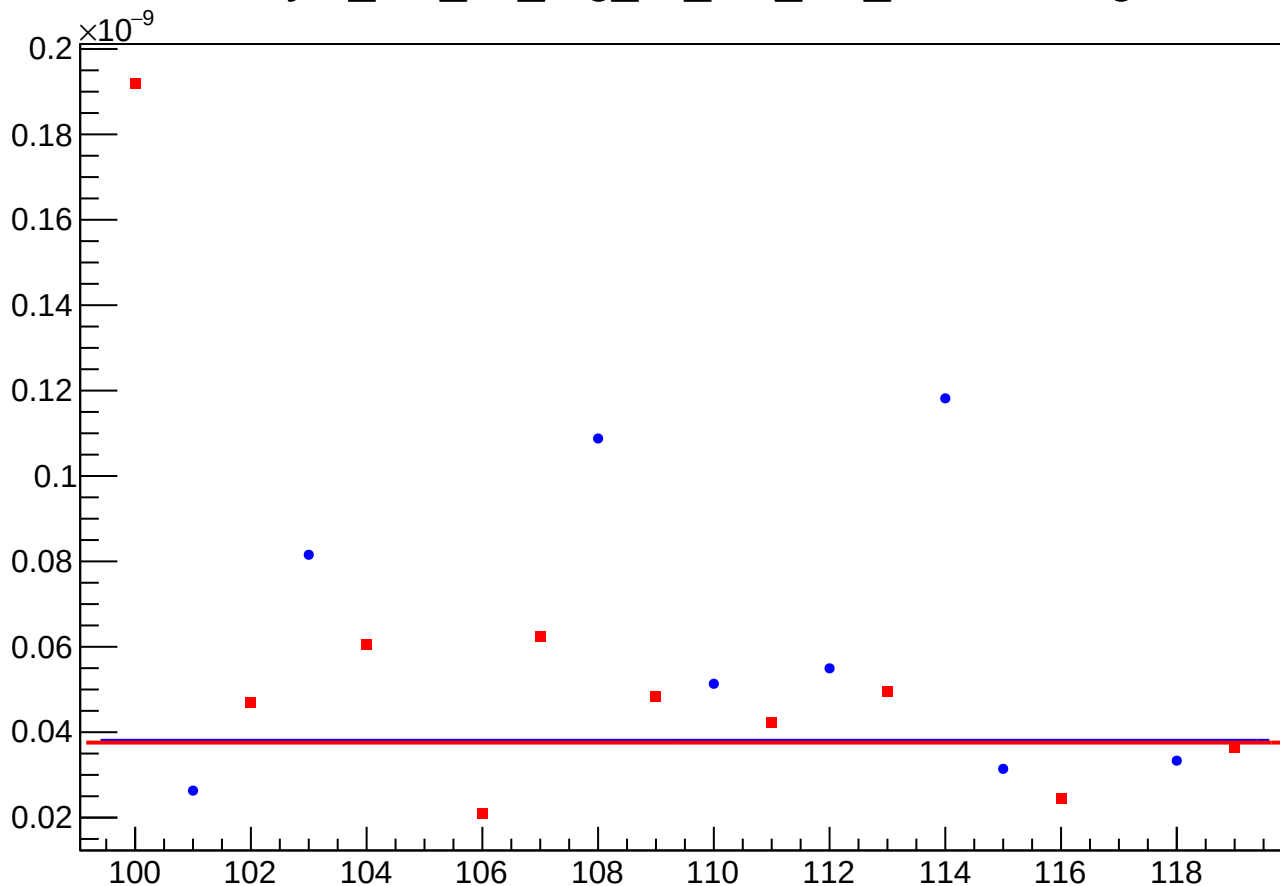
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.9/17

- 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  $\chi^2/\text{NDF}$ : 615967.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 367373.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

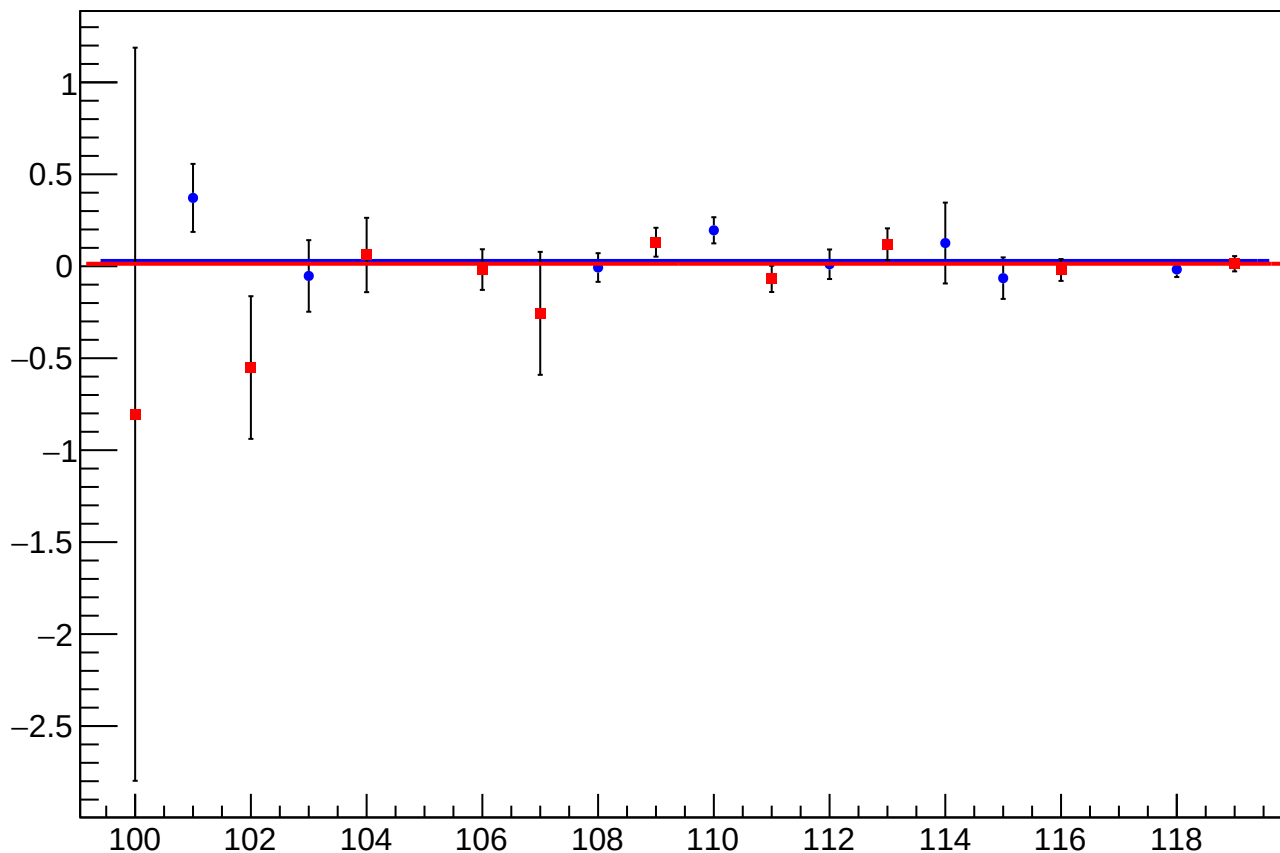
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 983493.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_at1\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.029 $\pm$ 0.028  $\chi^2$ /NDF: 11.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.026  $\chi^2$ /NDF: 8.5/9

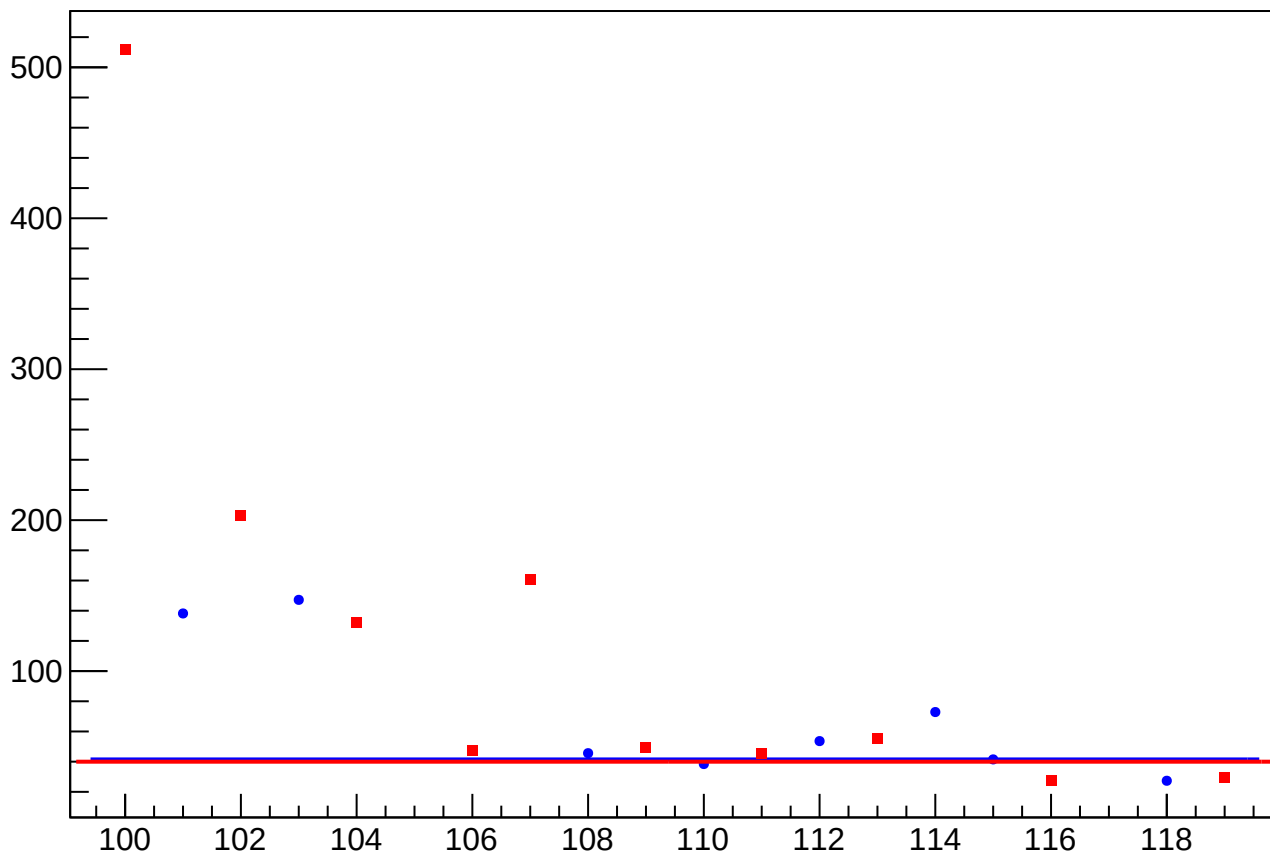
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.021 $\pm$ 0.019  $\chi^2$ /NDF: 20.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 41.475+/-0.020  $\chi^2/\text{NDF}$ : 1465733.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.979+/-0.018  $\chi^2/\text{NDF}$ : 1475220.4/9

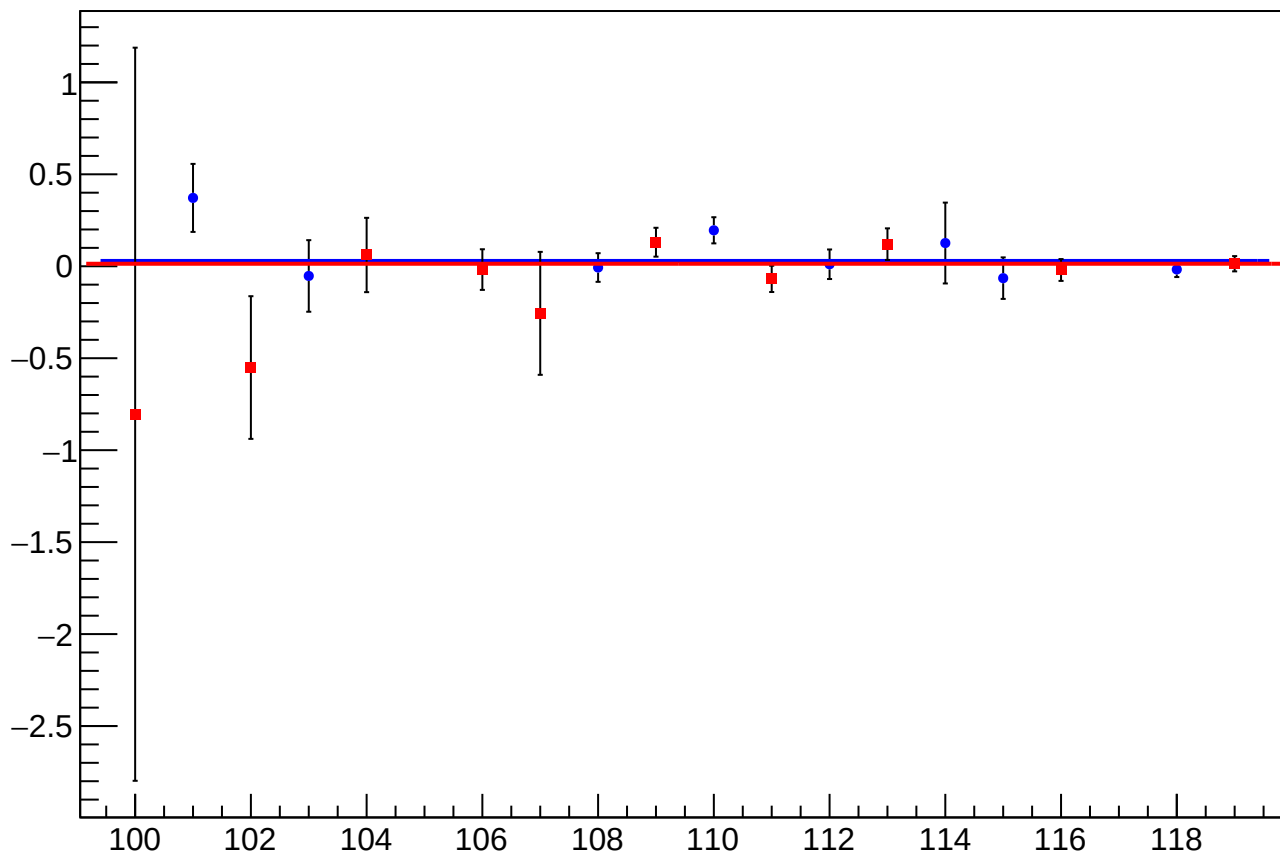
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.666+/-0.014  $\chi^2/\text{NDF}$ : 2943996.2/17

- 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: 0.029 $\pm$ 0.028  $\chi^2$ /NDF: 11.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.026  $\chi^2$ /NDF: 8.5/9

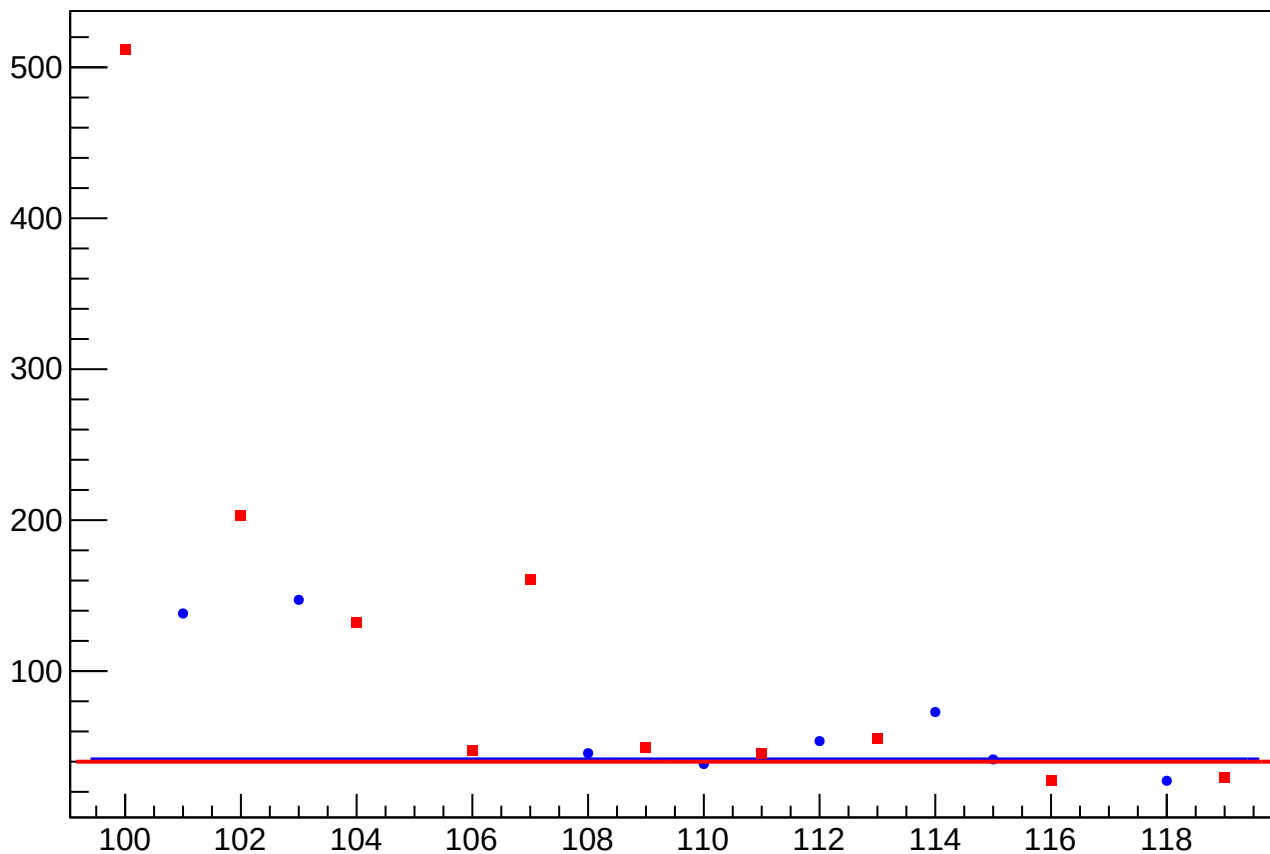
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.021 $\pm$ 0.019  $\chi^2$ /NDF: 20.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 41.475+/-0.020  $\chi^2/\text{NDF}$ : 1465733.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.979+/-0.018  $\chi^2/\text{NDF}$ : 1475220.4/9

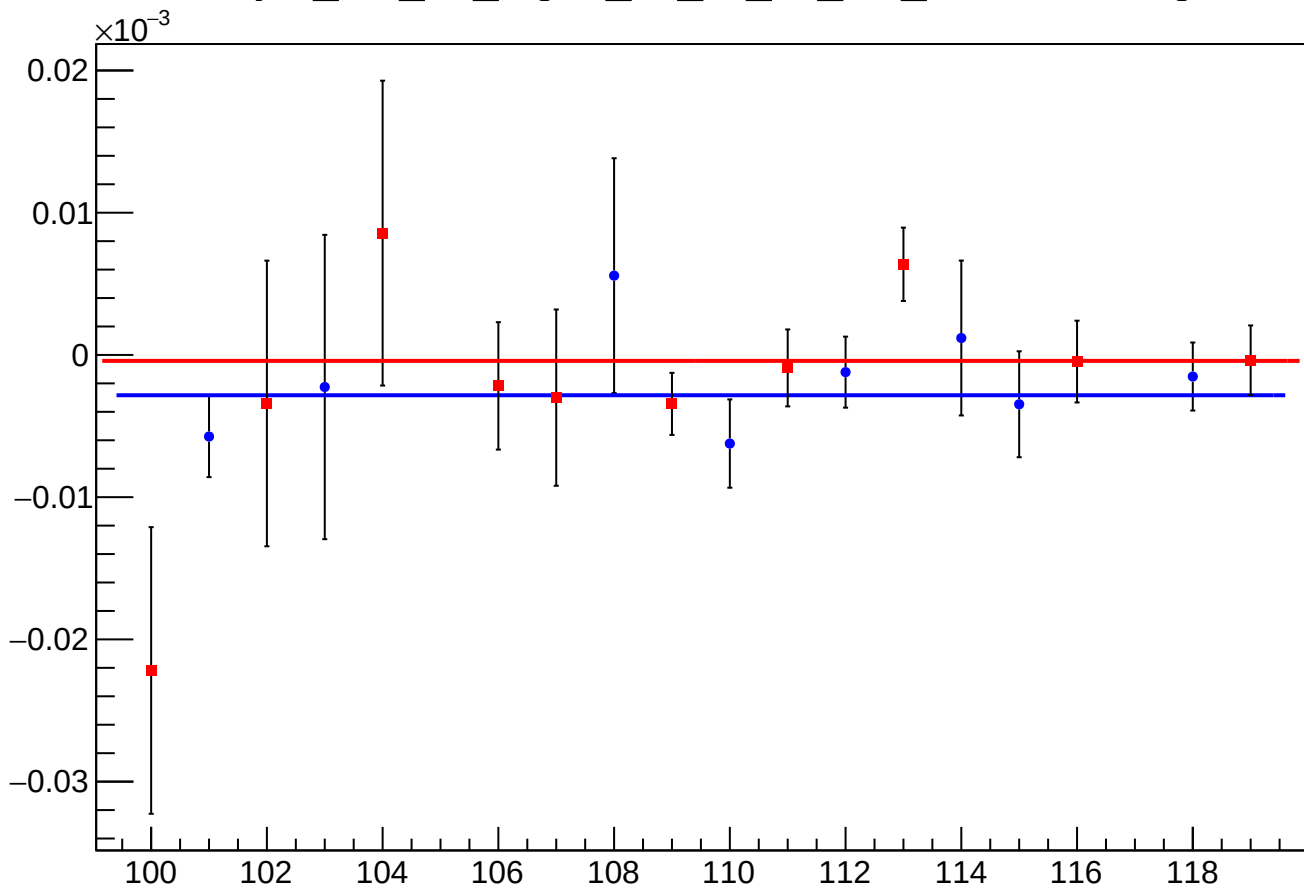
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.666+/-0.014  $\chi^2/\text{NDF}$ : 2943996.2/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.7/9

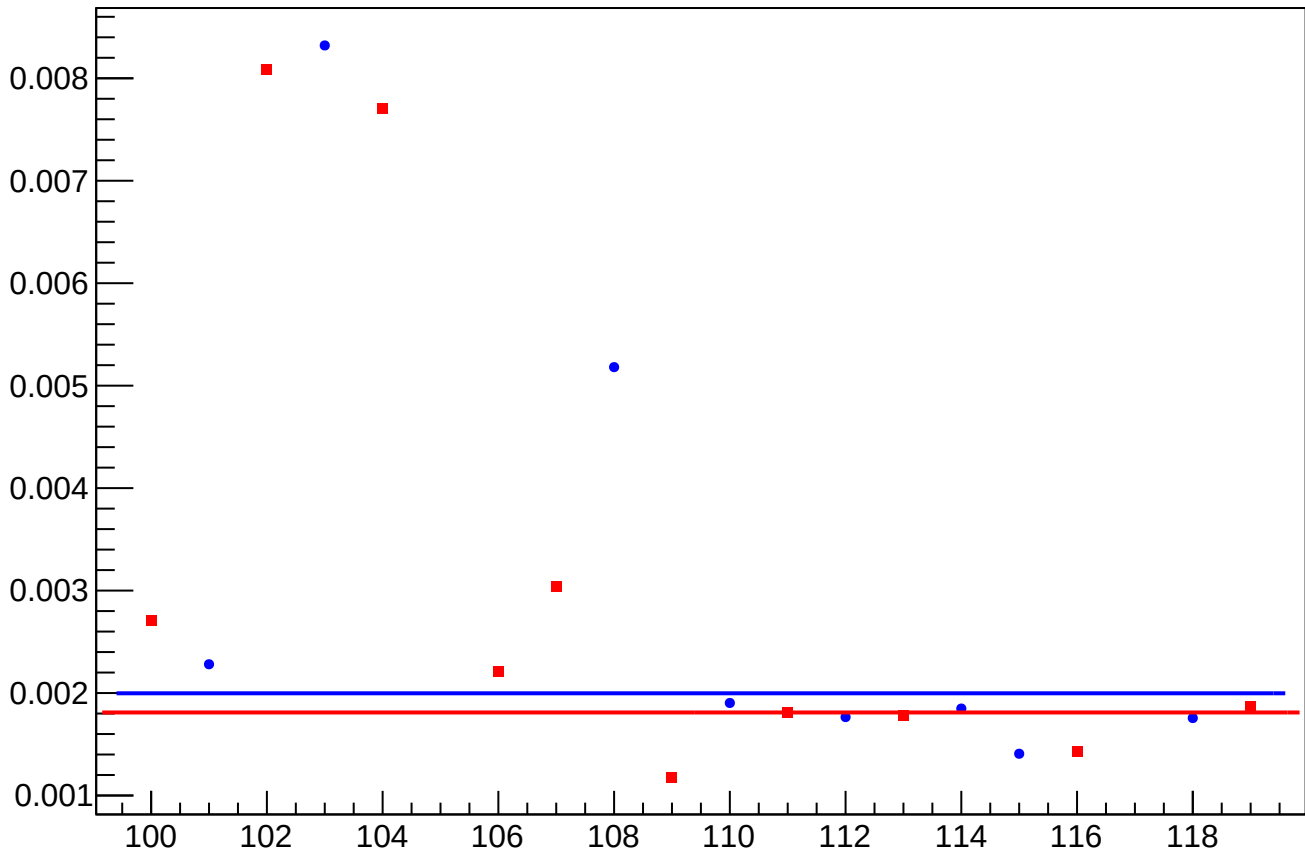
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 21.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 1106807.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 1703032.1/9

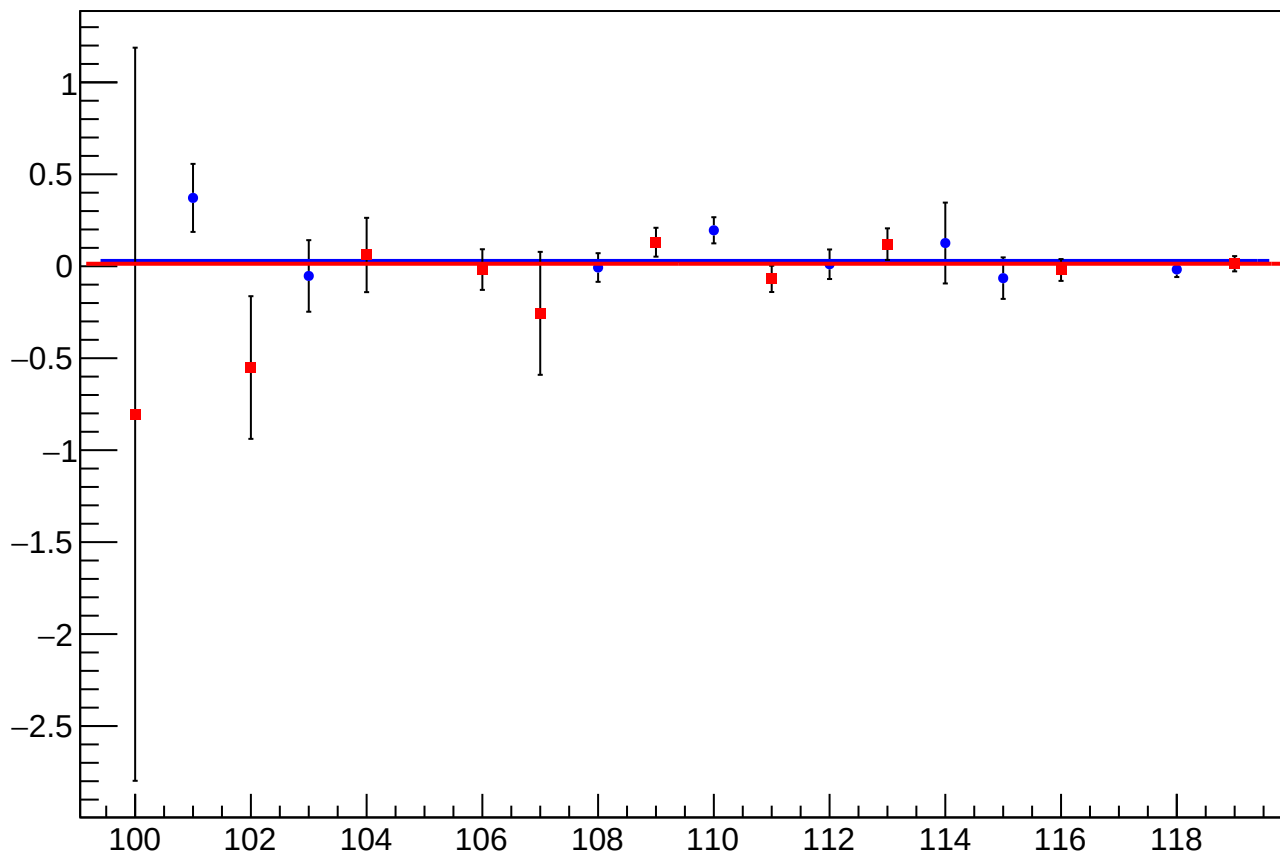
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 2837104.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.029 $\pm$ 0.028  $\chi^2$ /NDF: 11.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.026  $\chi^2$ /NDF: 8.5/9

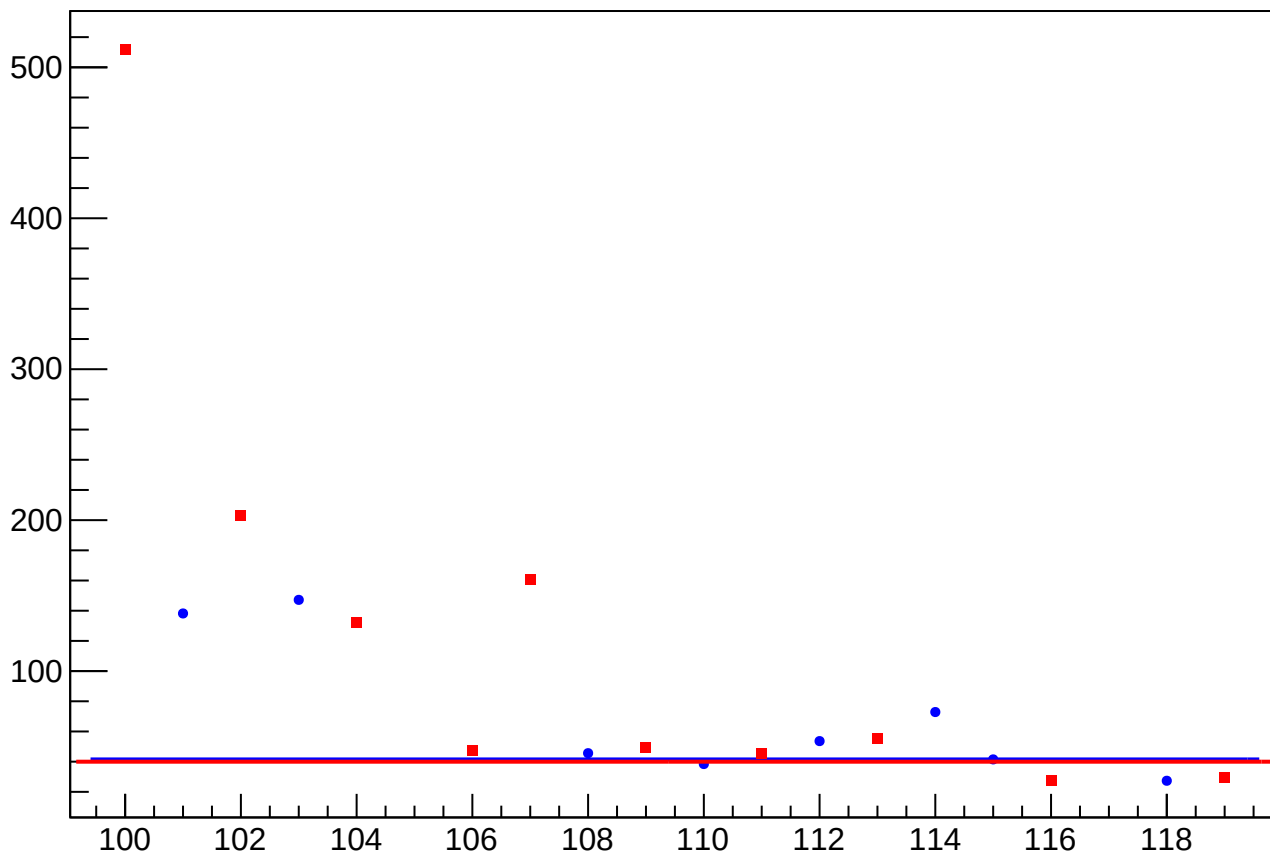
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.021 $\pm$ 0.019  $\chi^2$ /NDF: 20.1/17

- 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: 41.476+/-0.020  $\chi^2/\text{NDF}$ : 1465691.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.979+/-0.018  $\chi^2/\text{NDF}$ : 1475204.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

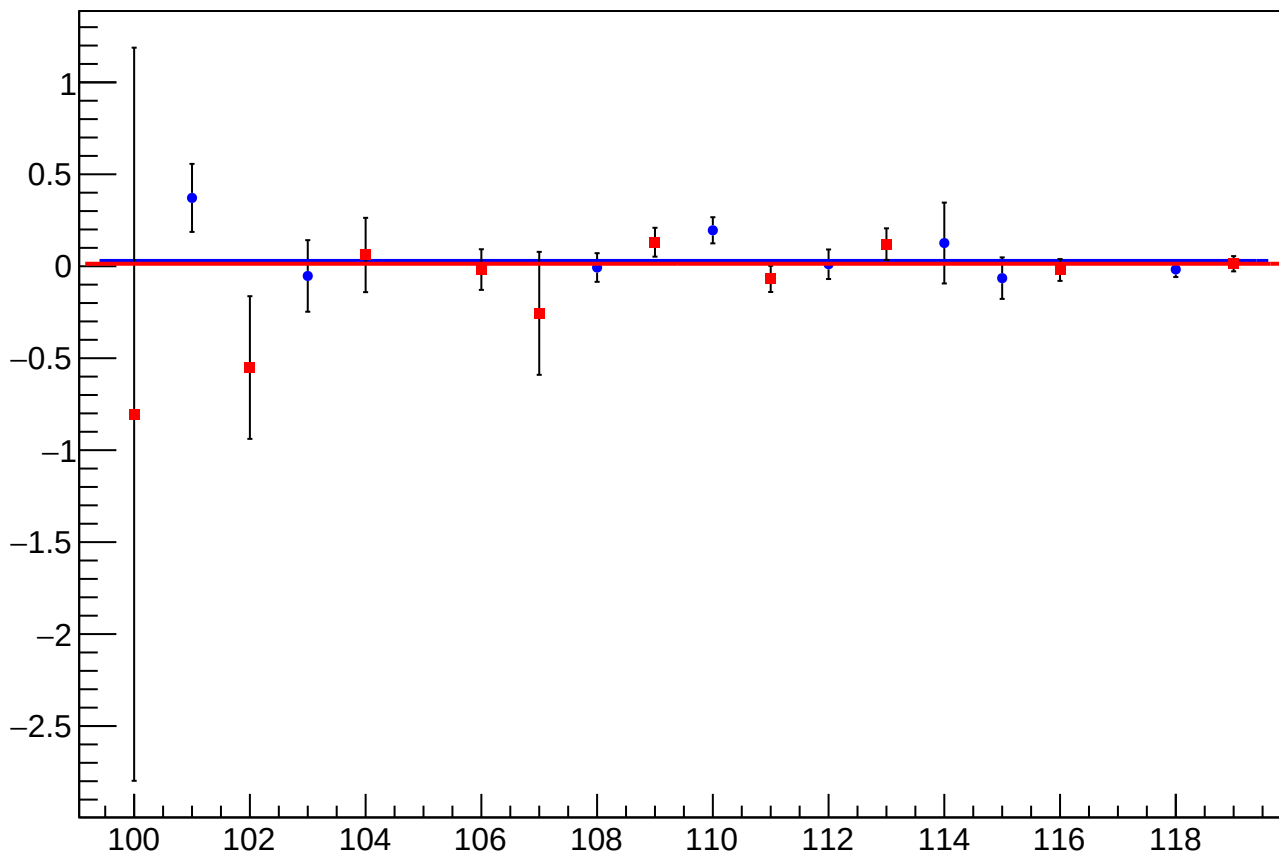
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.666+/-0.014  $\chi^2/\text{NDF}$ : 2943942.0/17

- 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: 0.029 $\pm$ 0.028  $\chi^2$ /NDF: 11.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.026  $\chi^2$ /NDF: 8.5/9

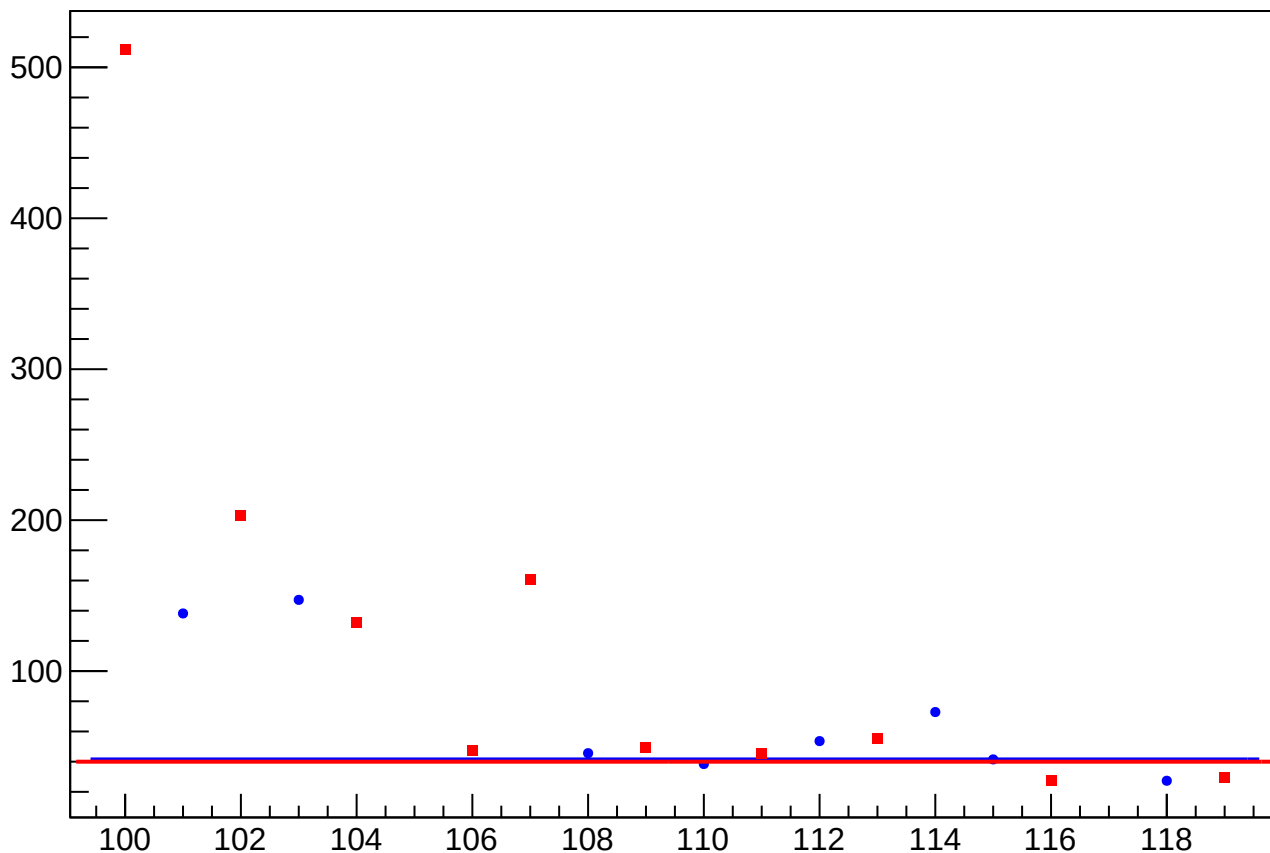
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.021 $\pm$ 0.019  $\chi^2$ /NDF: 20.1/17

- 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: 41.476+/-0.020  $\chi^2/\text{NDF}$ : 1465691.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.979+/-0.018  $\chi^2/\text{NDF}$ : 1475204.8/9

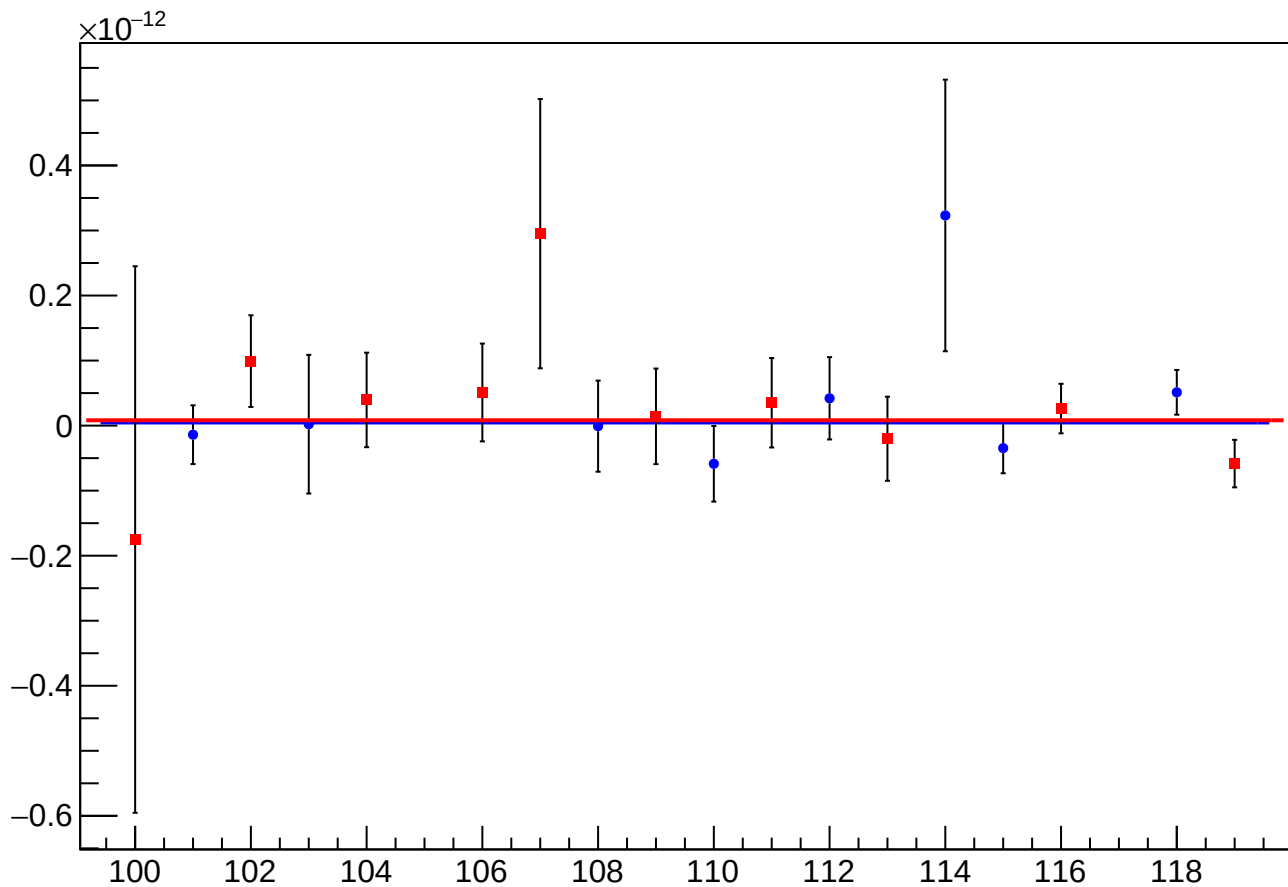
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.666+/-0.014  $\chi^2/\text{NDF}$ : 2943942.0/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.2/9

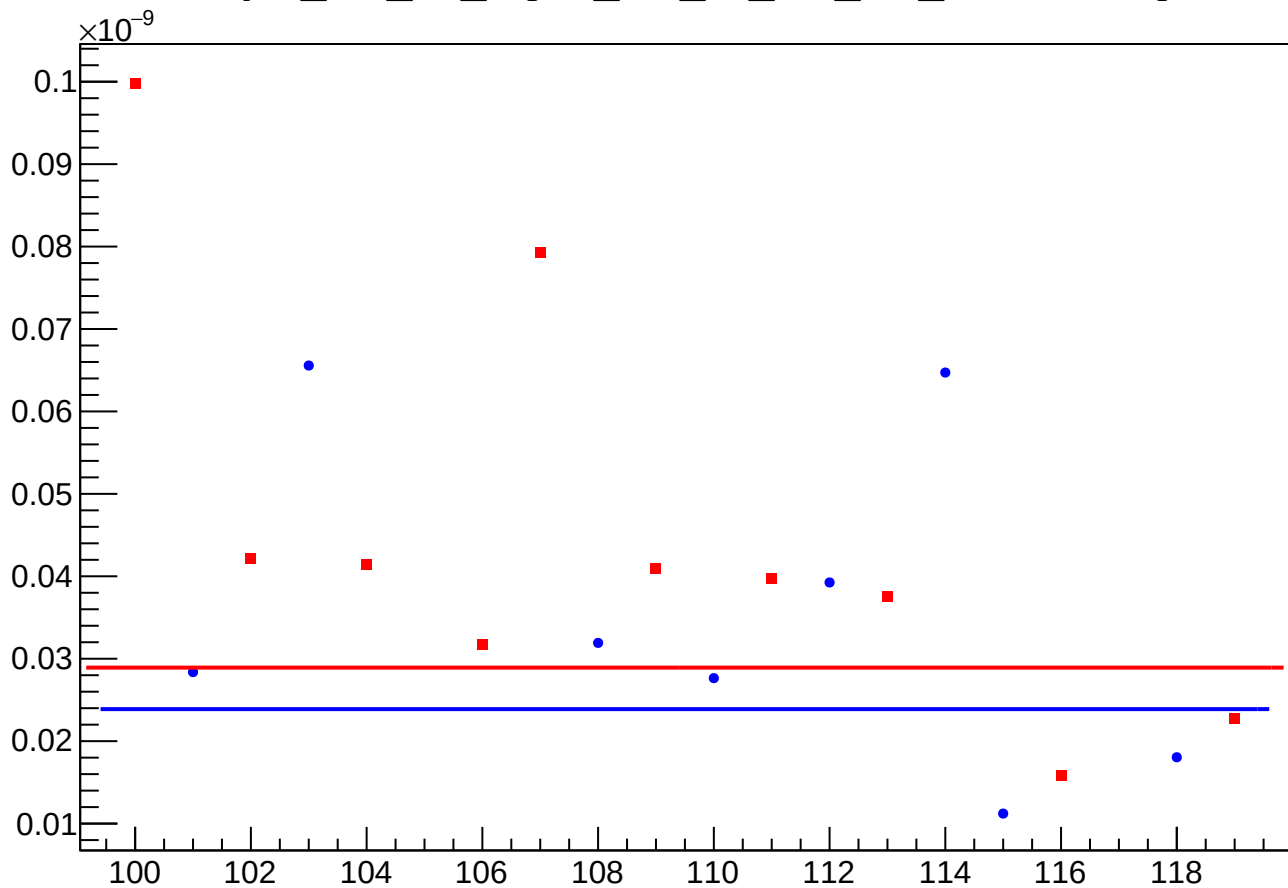
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 826501.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 742516.2/9

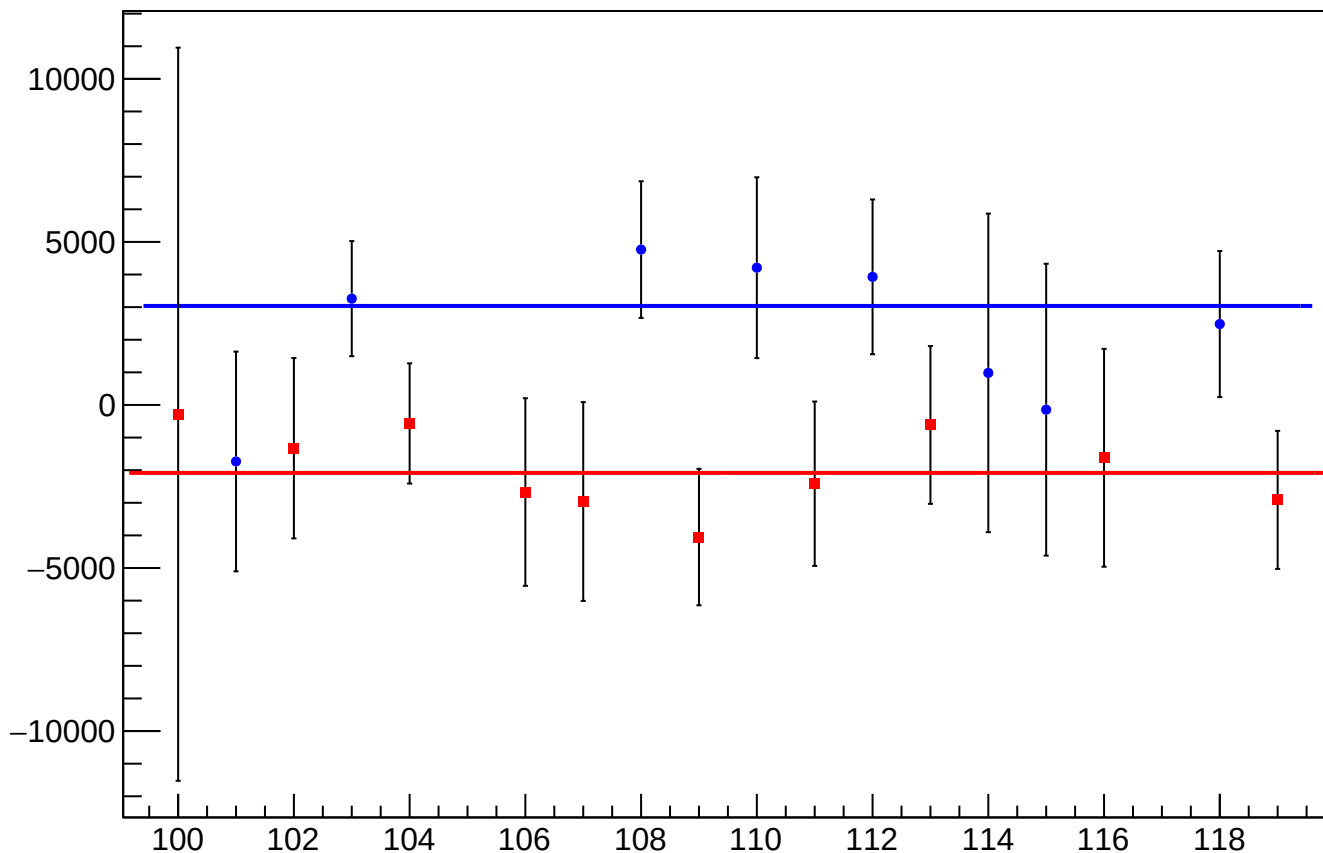
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1639087.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_mean vs Slug



Right In: 3036.628 $\pm$ 899.614  $\chi^2$ /NDF: 3.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2082.763 $\pm$ 808.111  $\chi^2$ /NDF: 2.3/9

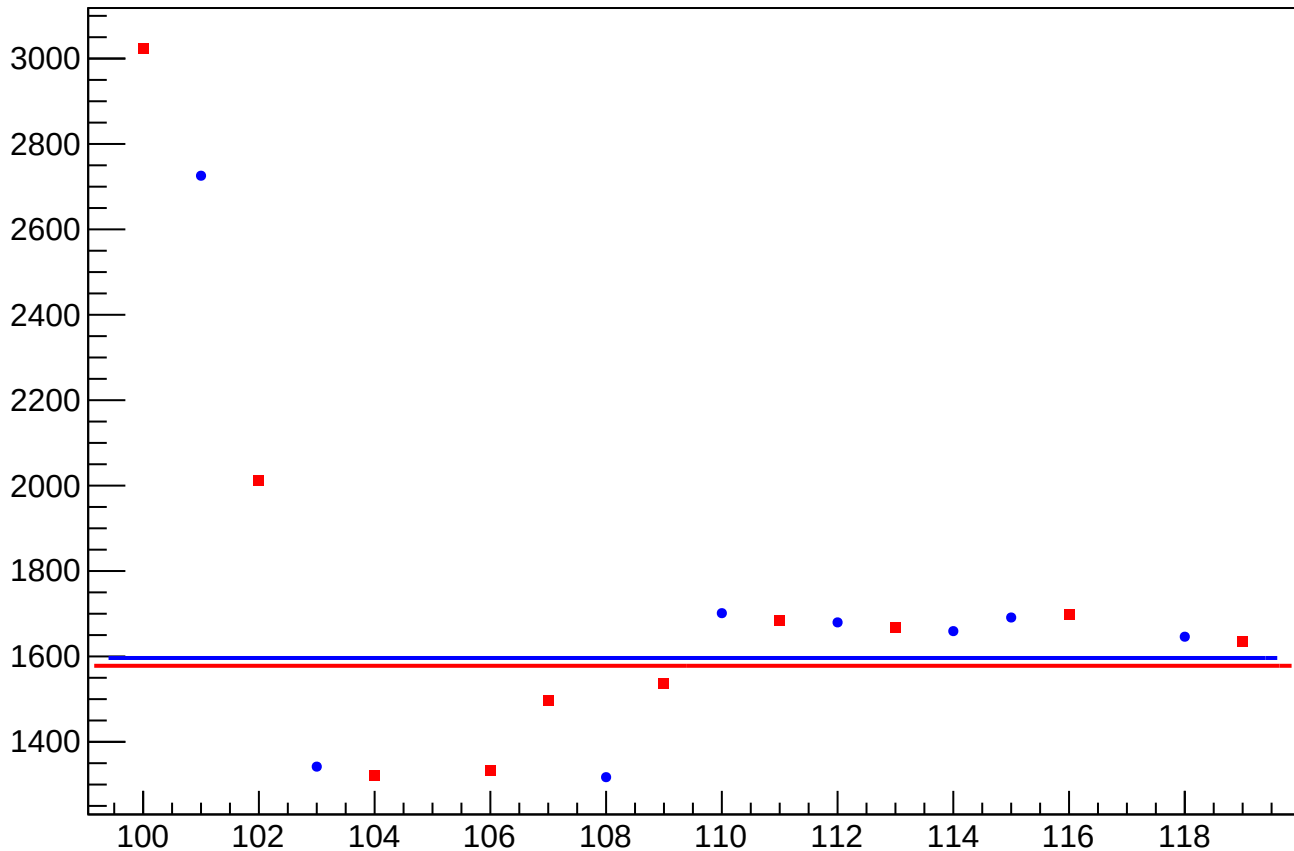
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 203.412 $\pm$ 601.176  $\chi^2$ /NDF: 24.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_avg\_rms vs Slug



Right In: 1596.365+/-0.636  $\chi^2/\text{NDF}$ : 309288.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1578.073+/-0.571  $\chi^2/\text{NDF}$ : 148677.6/9

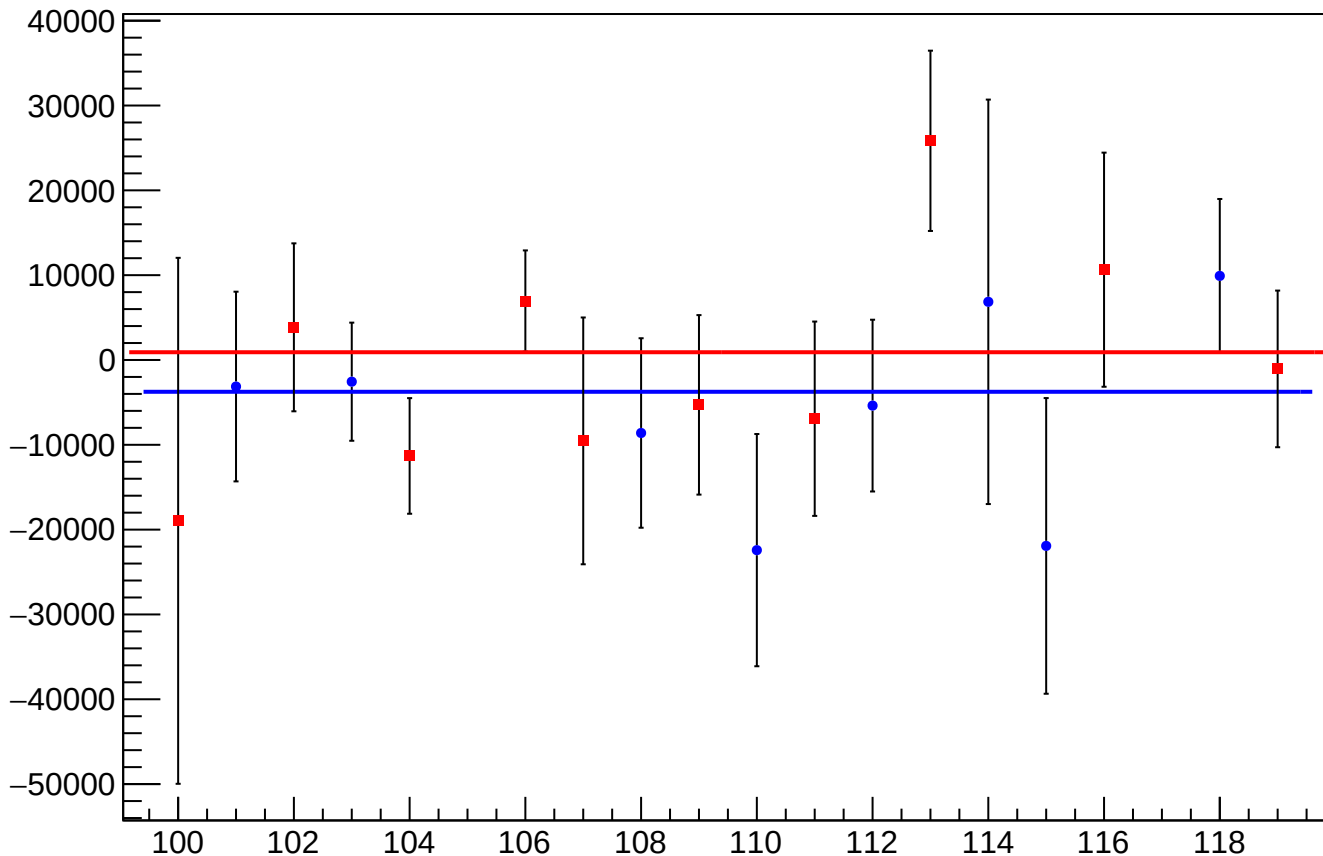
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1586.242+/-0.425  $\chi^2/\text{NDF}$ : 458424.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_reg\_correction\_mean vs Slug



Right In: -3749.173+/-3808.729  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 914.064+/-3043.200  $\chi^2/\text{NDF}$ : 12.1/9

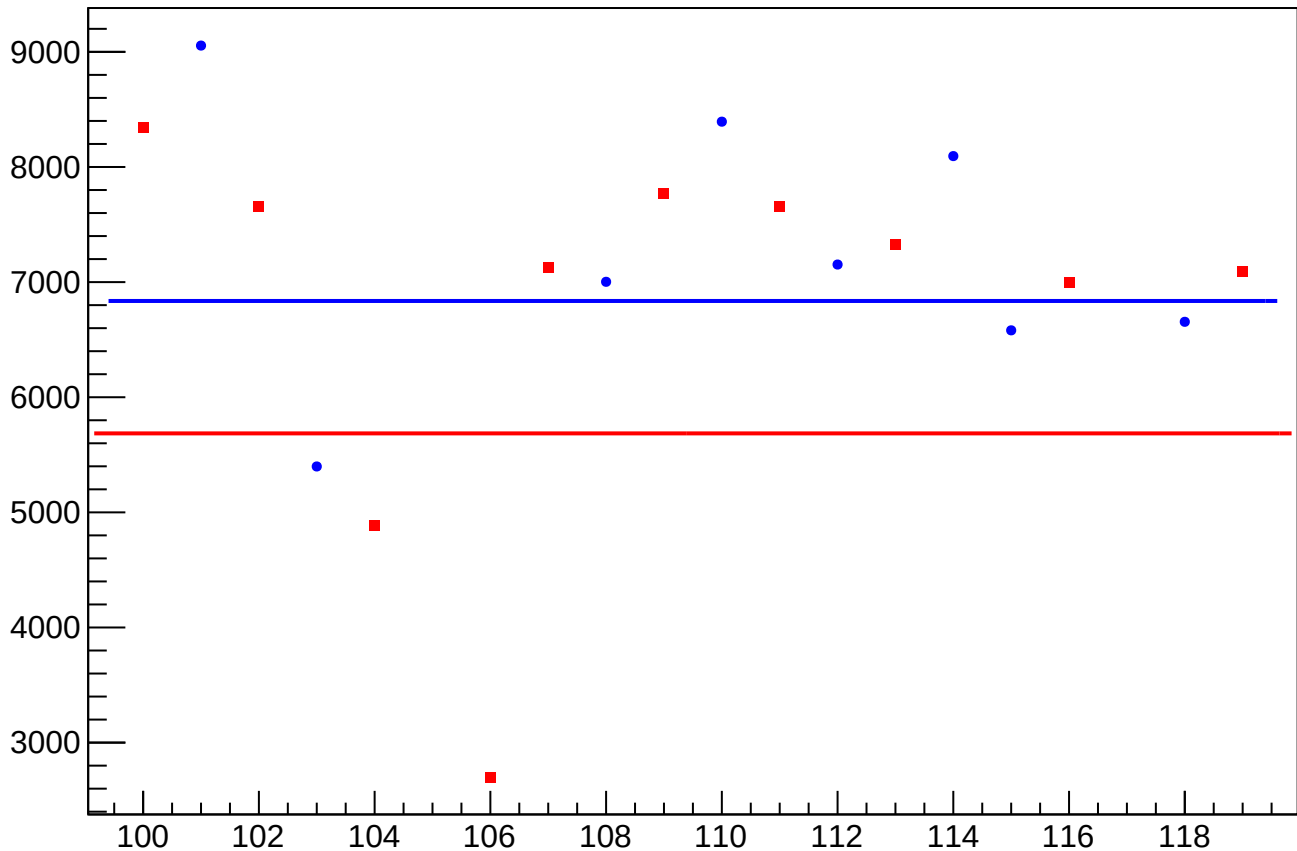
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -902.979+/-2377.491  $\chi^2/\text{NDF}$ : 18.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_reg\_correction\_rms vs Slug



Right In: 6836.216+/-2.693  $\chi^2/\text{NDF}$ : 199037.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5686.000+/-2.152  $\chi^2/\text{NDF}$ : 891452.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

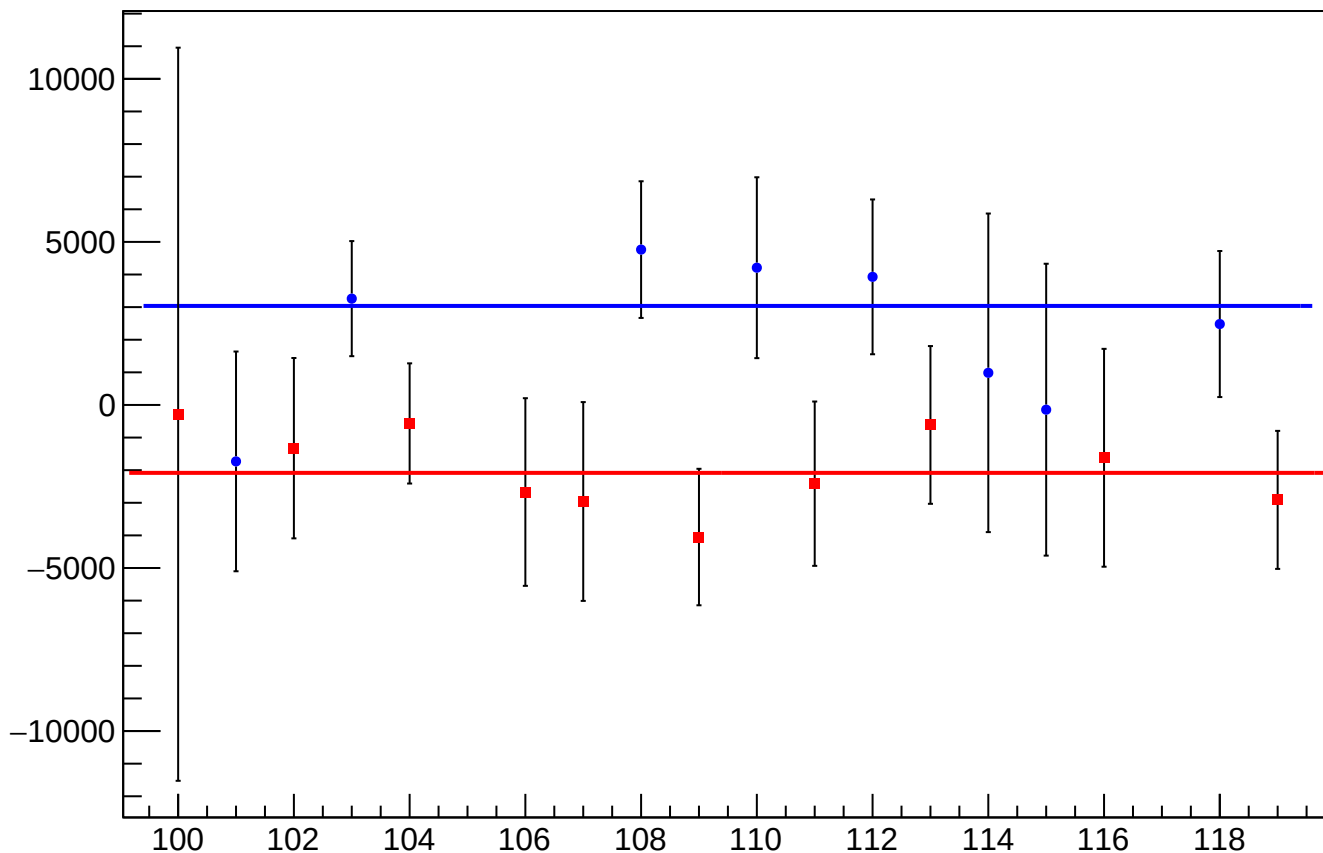
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6134.185+/-1.681  $\chi^2/\text{NDF}$ : 1201817.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_at2\_avg\_mean vs Slug



Right In: 3036.842 $\pm$ 899.614  $\chi^2$ /NDF: 3.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2082.515 $\pm$ 808.111  $\chi^2$ /NDF: 2.3/9

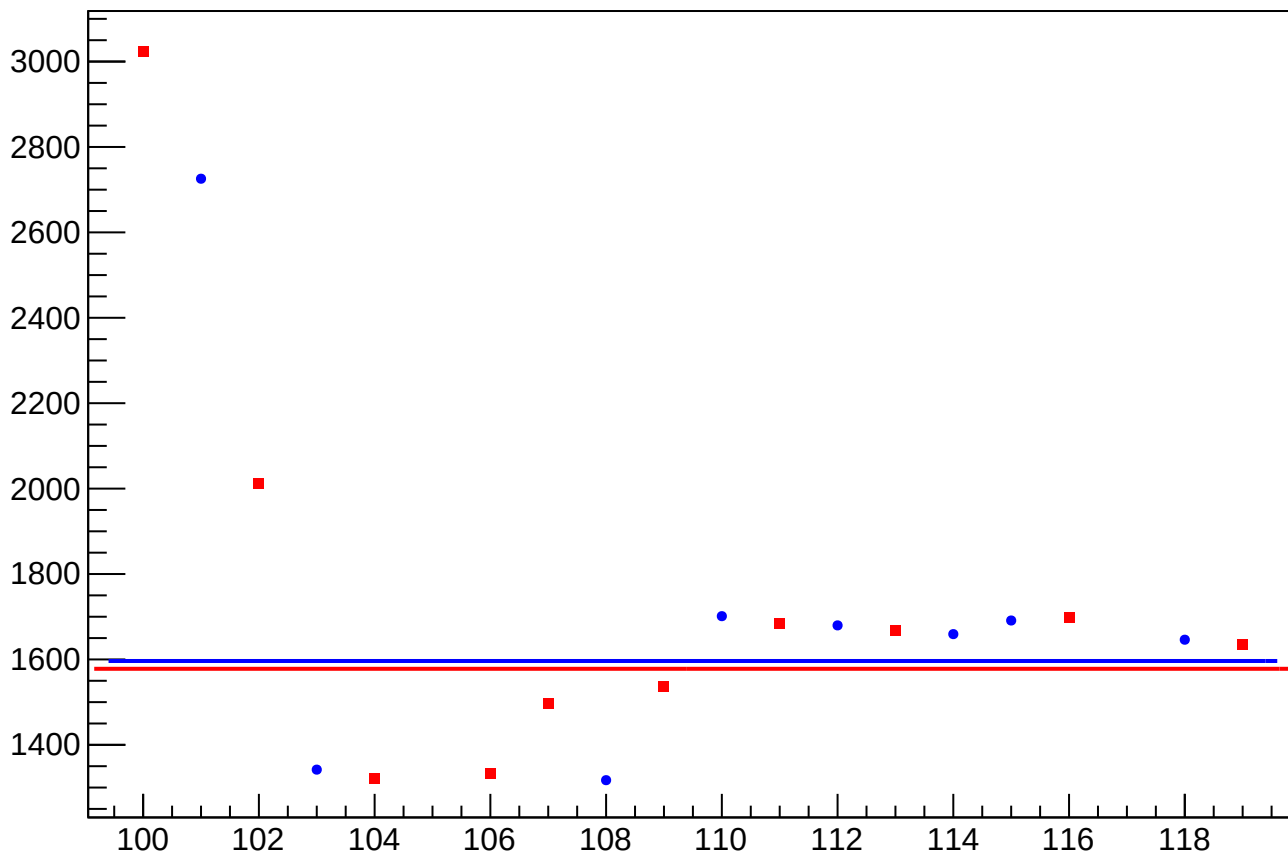
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 203.644 $\pm$ 601.176  $\chi^2$ /NDF: 24.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_at2\_avg\_rms vs Slug



Right In: 1596.365+/-0.636  $\chi^2/\text{NDF}$ : 309289.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1578.073+/-0.571  $\chi^2/\text{NDF}$ : 148677.4/9

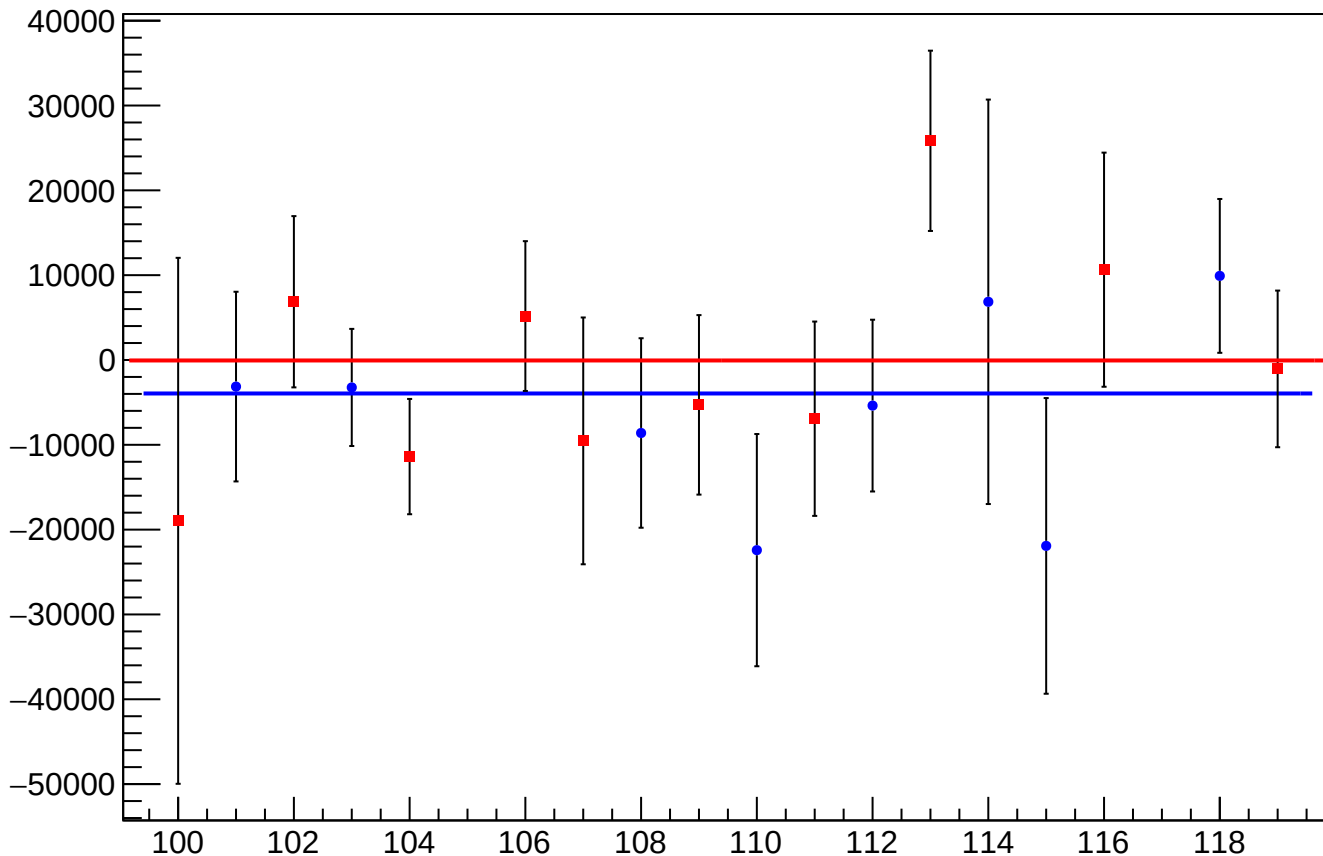
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1586.242+/-0.425  $\chi^2/\text{NDF}$ : 458424.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_cor\_correction\_mean vs Slug



Right In: -3948.792+/-3798.946  $\chi^2$ /NDF: 5.6/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -56.819+/-3289.212  $\chi^2$ /NDF: 11.6/9

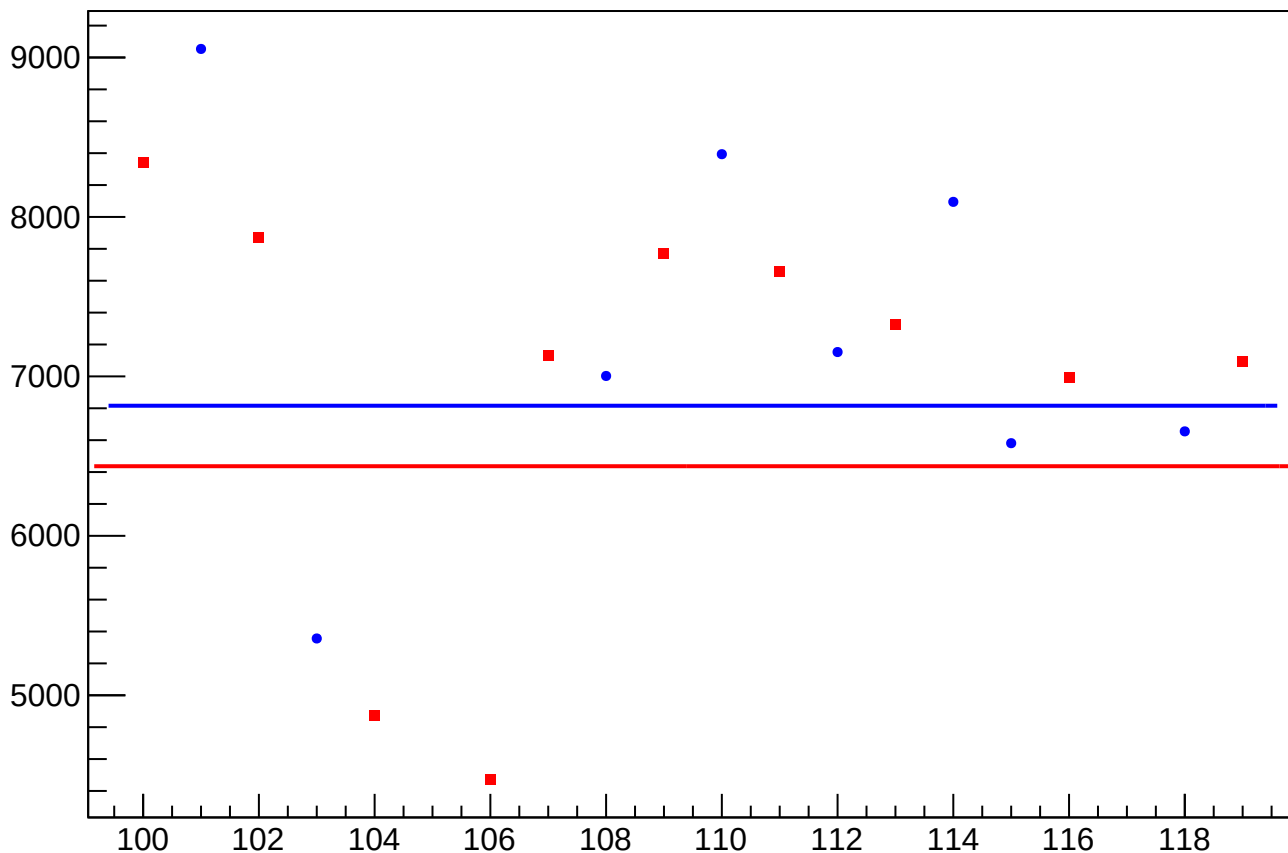
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1724.361+/-2486.661  $\chi^2$ /NDF: 17.8/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_avg\_cor\_correction\_rms vs Slug



Right In: 6815.997 $\pm$ 2.686  $\chi^2$ /NDF: 205578.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6436.607 $\pm$ 2.326  $\chi^2$ /NDF: 339595.7/9

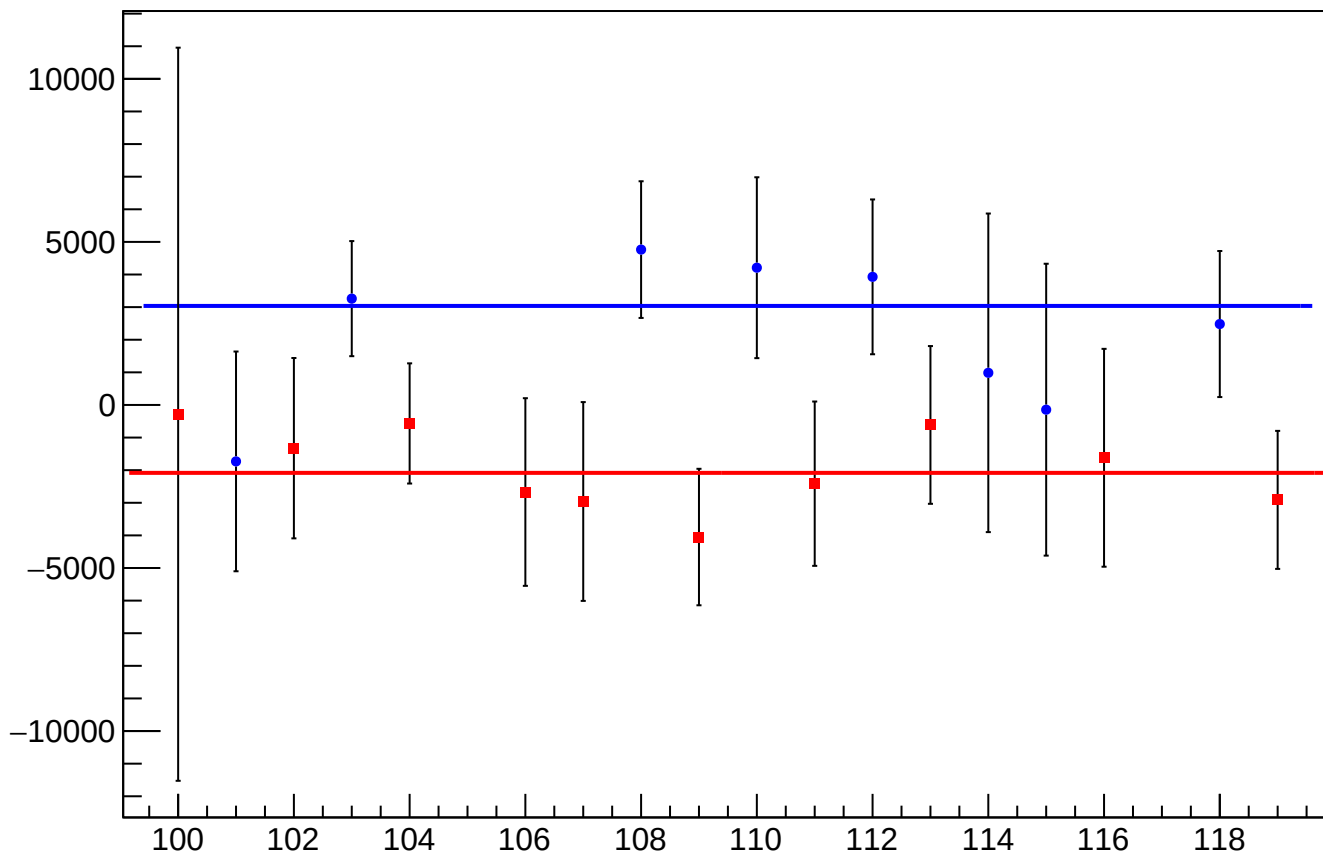
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6599.159 $\pm$ 1.758  $\chi^2$ /NDF: 556575.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_at2\_avg\_mean vs Slug



Right In: 3036.842 $\pm$ 899.614  $\chi^2$ /NDF: 3.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2082.515 $\pm$ 808.111  $\chi^2$ /NDF: 2.3/9

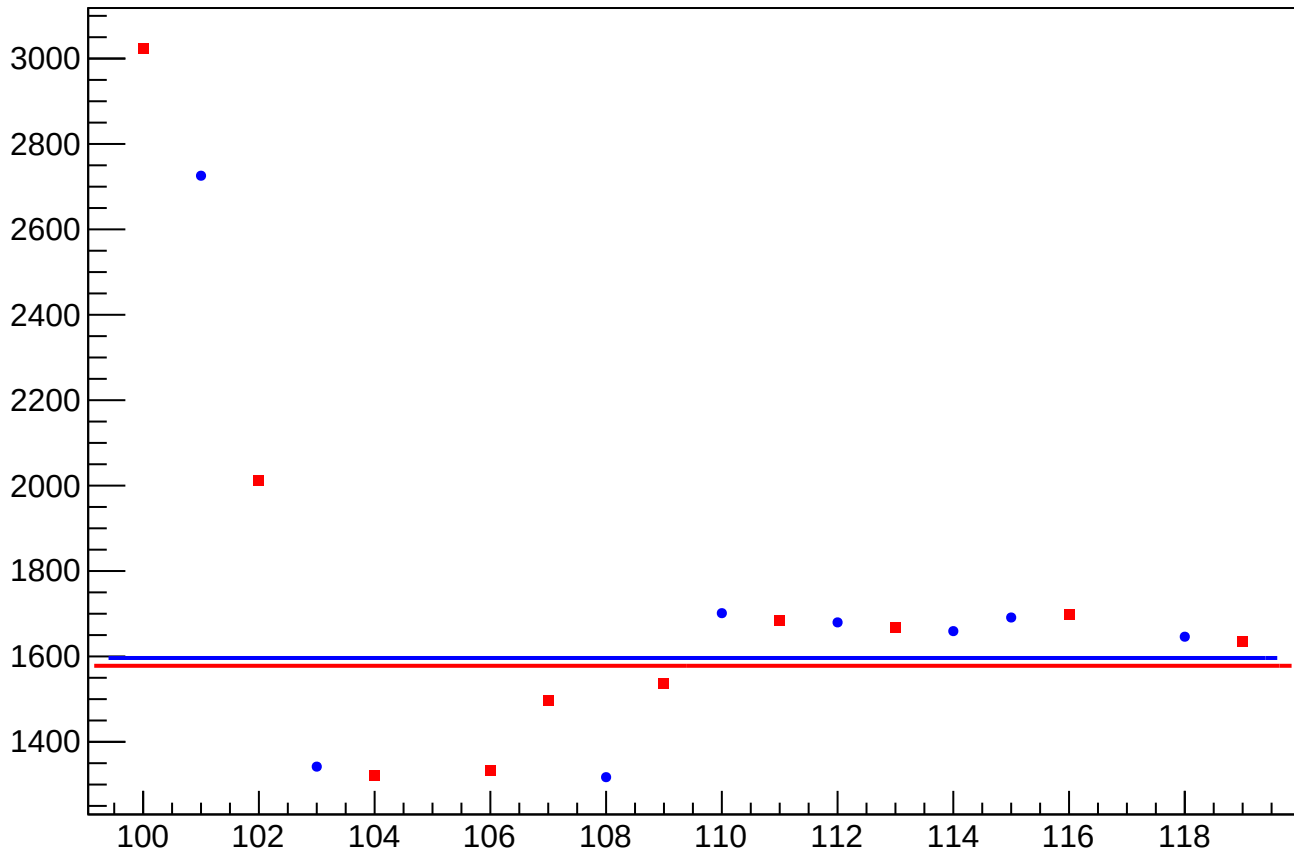
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 203.644 $\pm$ 601.176  $\chi^2$ /NDF: 24.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_at2\_avg\_rms vs Slug



Right In: 1596.365+/-0.636  $\chi^2/\text{NDF}$ : 309289.0/7

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

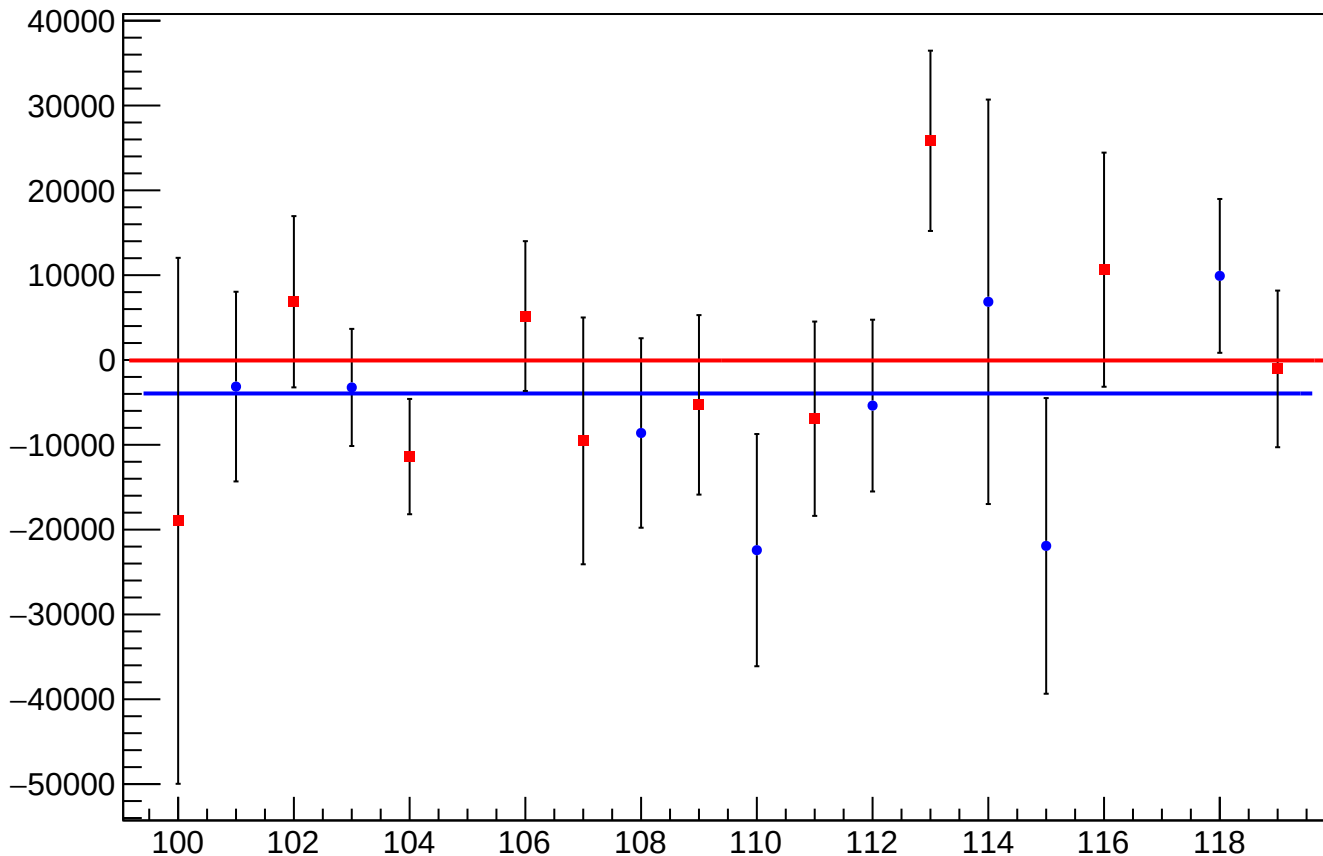
Right Out: 1578.073+/-0.571  $\chi^2/\text{NDF}$ : 148677.4/9

All: 1586.242+/-0.425  $\chi^2/\text{NDF}$ : 458424.0/17

- 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\_eigen\_cor\_correction\_mean vs Slug



Right In: -3948.792+/-3798.946  $\chi^2/\text{NDF}$ : 5.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -56.819+/-3289.212  $\chi^2/\text{NDF}$ : 11.6/9

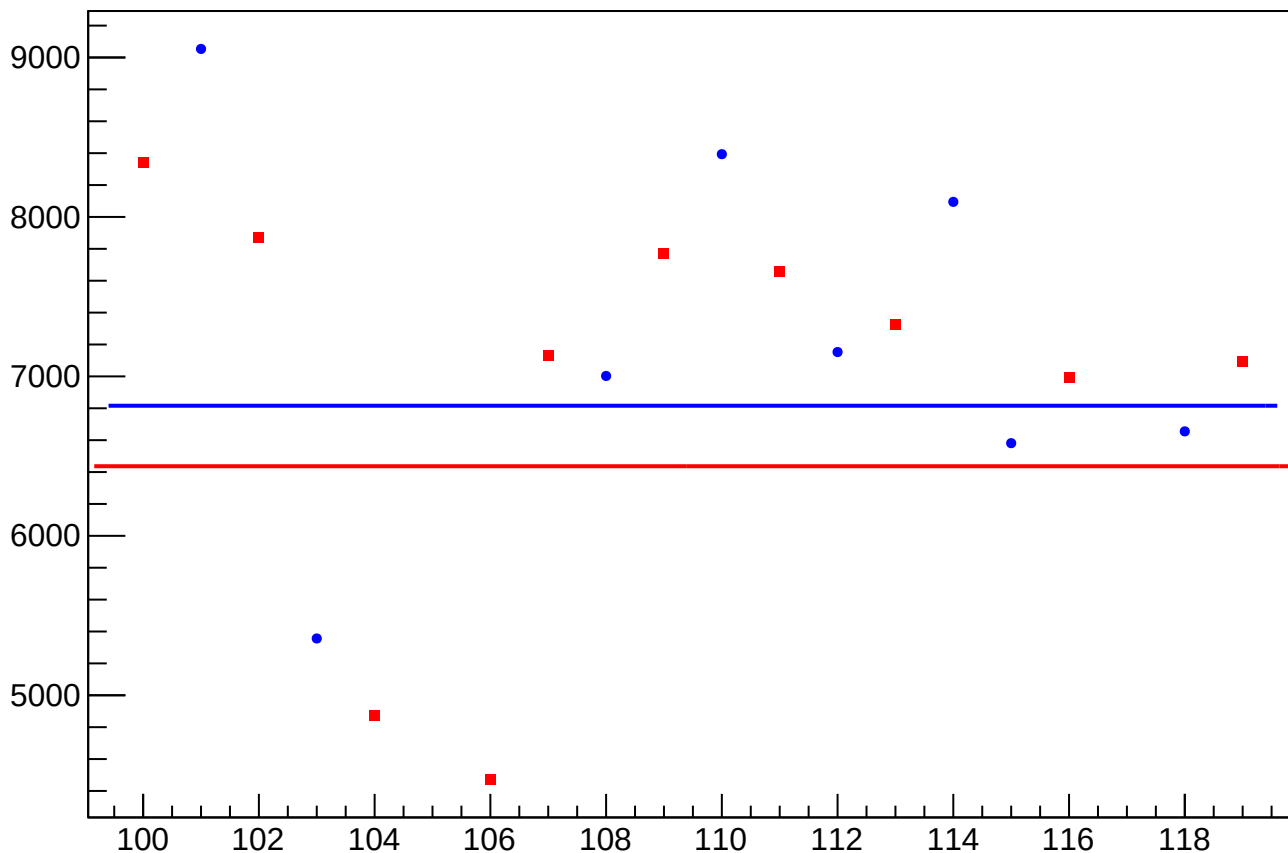
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1724.361+/-2486.661  $\chi^2/\text{NDF}$ : 17.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 6815.997 $\pm$ 2.686  $\chi^2$ /NDF: 205578.7/7

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: 6436.607 $\pm$ 2.326  $\chi^2$ /NDF: 339595.7/9

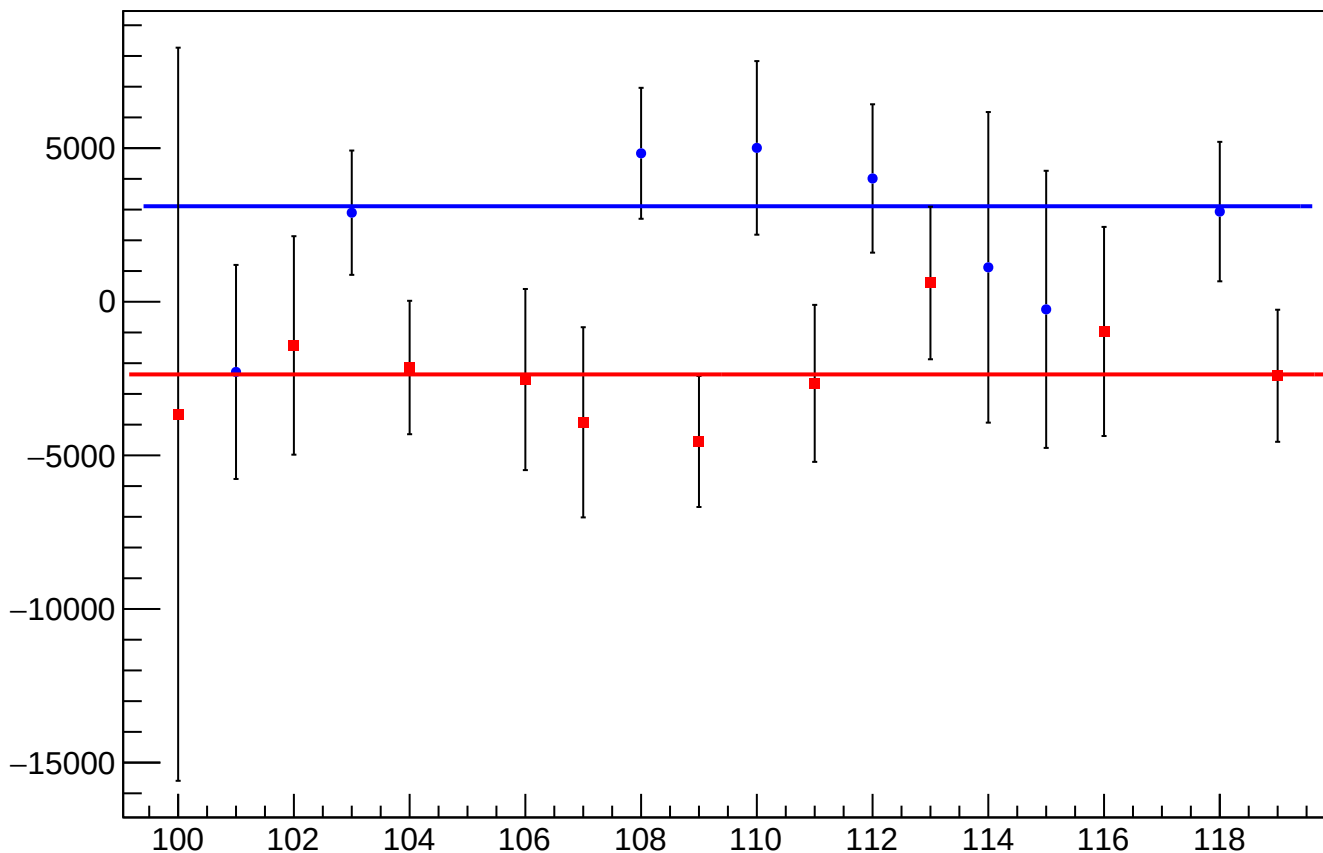
All: 6599.159 $\pm$ 1.758  $\chi^2$ /NDF: 556575.0/17

- 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



dit\_asym\_at2\_avg\_mean vs Slug



Right In: 3108.769+/-942.364  $\chi^2/\text{NDF}$ : 4.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2364.851+/-858.792  $\chi^2/\text{NDF}$ : 3.0/9

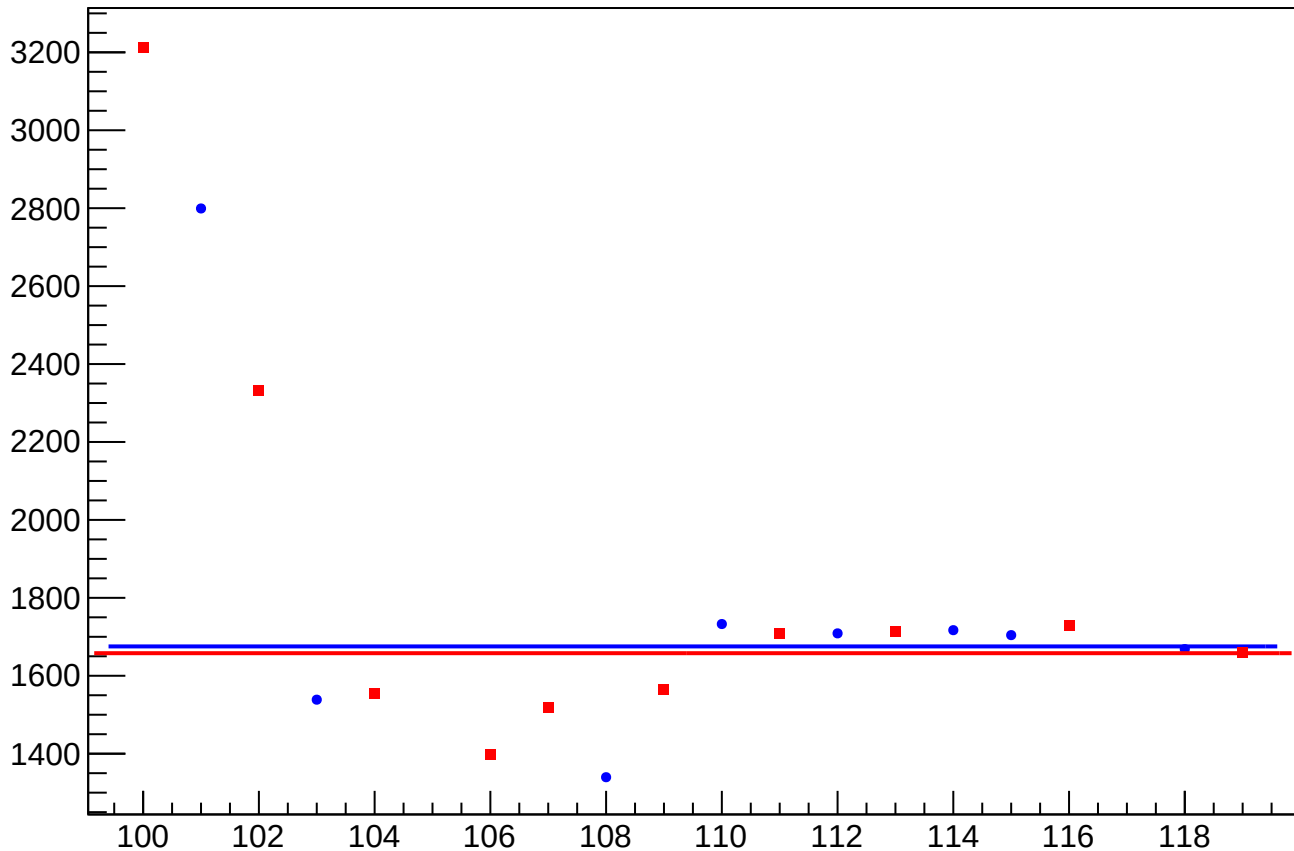
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 118.531+/-634.751  $\chi^2/\text{NDF}$ : 25.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_at2\_avg\_rms vs Slug



Right In: 1675.322+/-0.666  $\chi^2/\text{NDF}$ : 268393.0/7

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

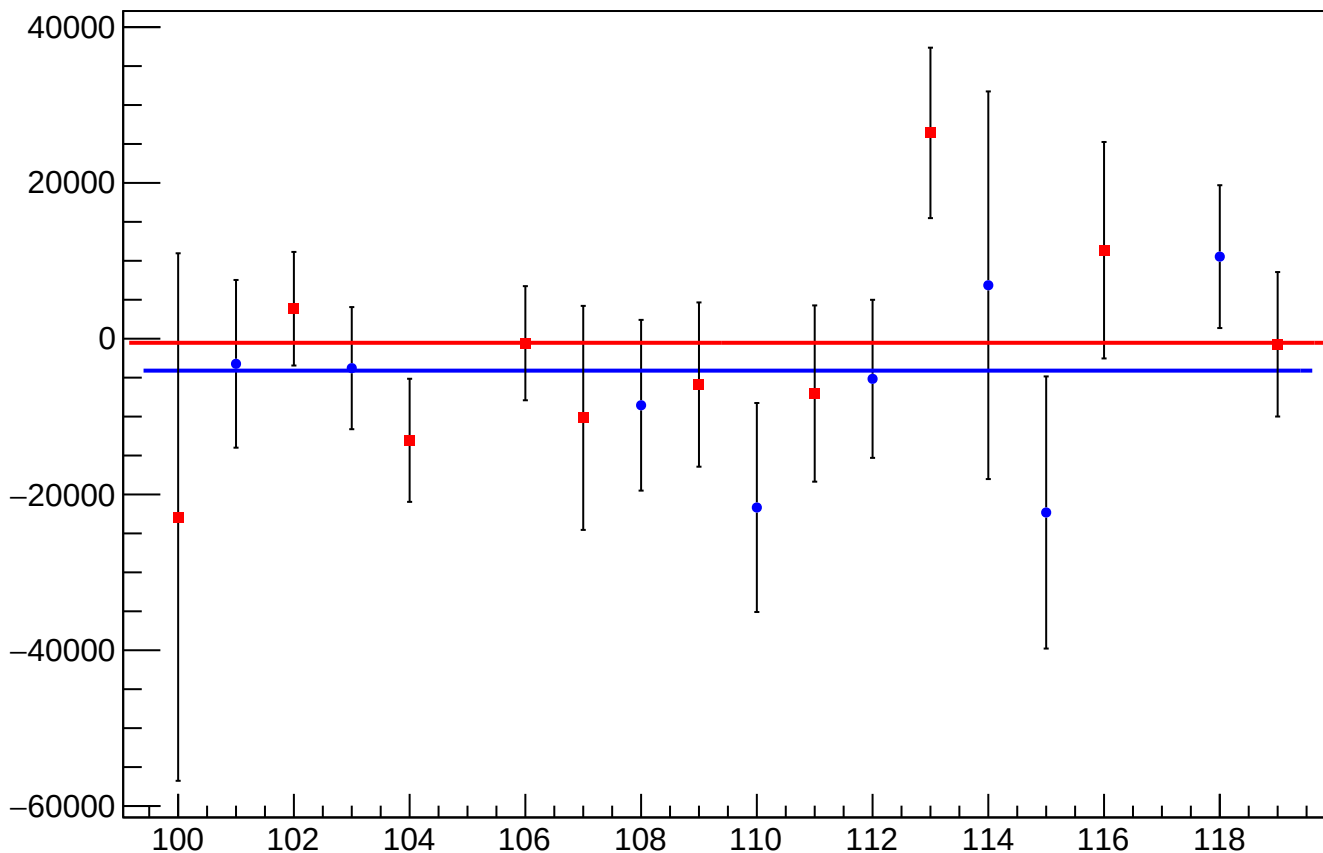
Right Out: 1657.940+/-0.607  $\chi^2/\text{NDF}$ : 136434.9/9

All: 1665.820+/-0.449  $\chi^2/\text{NDF}$ : 405199.9/17

- 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: -4100.920+/-3913.951  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -527.024+/-3144.794  $\chi^2/\text{NDF}$ : 11.1/9

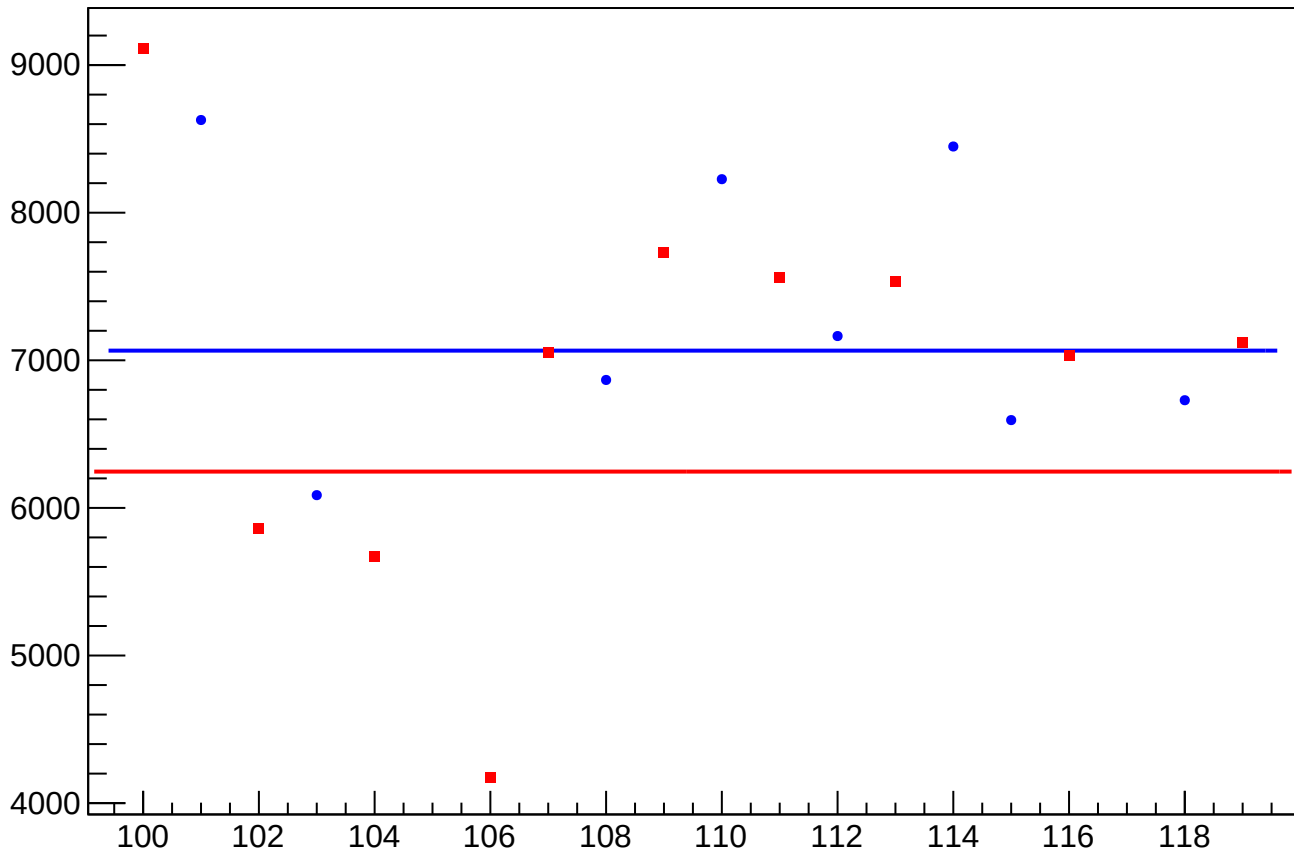
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1929.111+/-2451.501  $\chi^2/\text{NDF}$ : 17.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_dit\_correction\_rms vs Slug



Right In: 7065.533+/-2.768  $\chi^2/\text{NDF}$ : 99462.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6246.083+/-2.224  $\chi^2/\text{NDF}$ : 315122.2/9

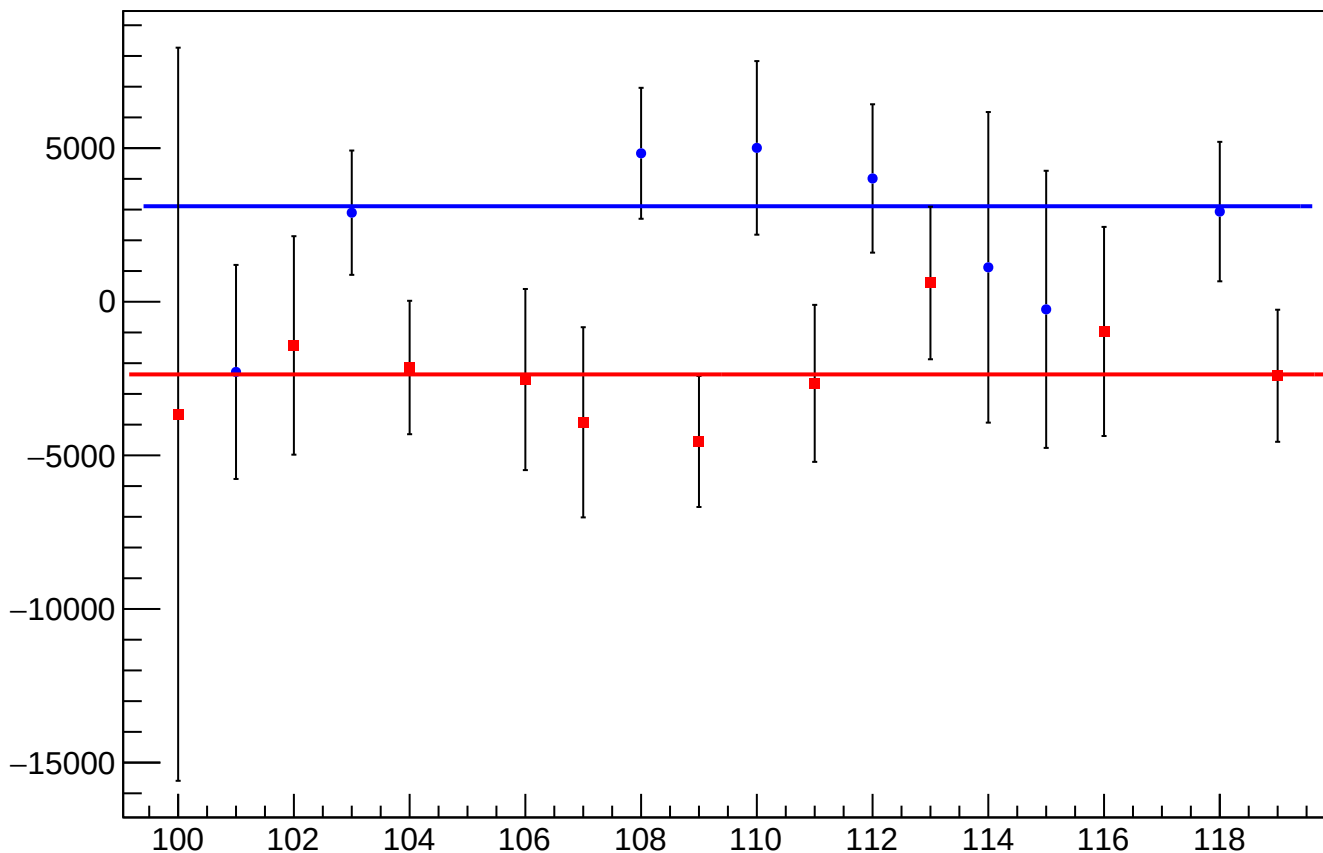
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6567.564+/-1.733  $\chi^2/\text{NDF}$ : 467860.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_at2\_avg\_mean vs Slug



Right In: 3108.775 $\pm$ 942.364  $\chi^2$ /NDF: 4.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2364.861 $\pm$ 858.791  $\chi^2$ /NDF: 3.0/9

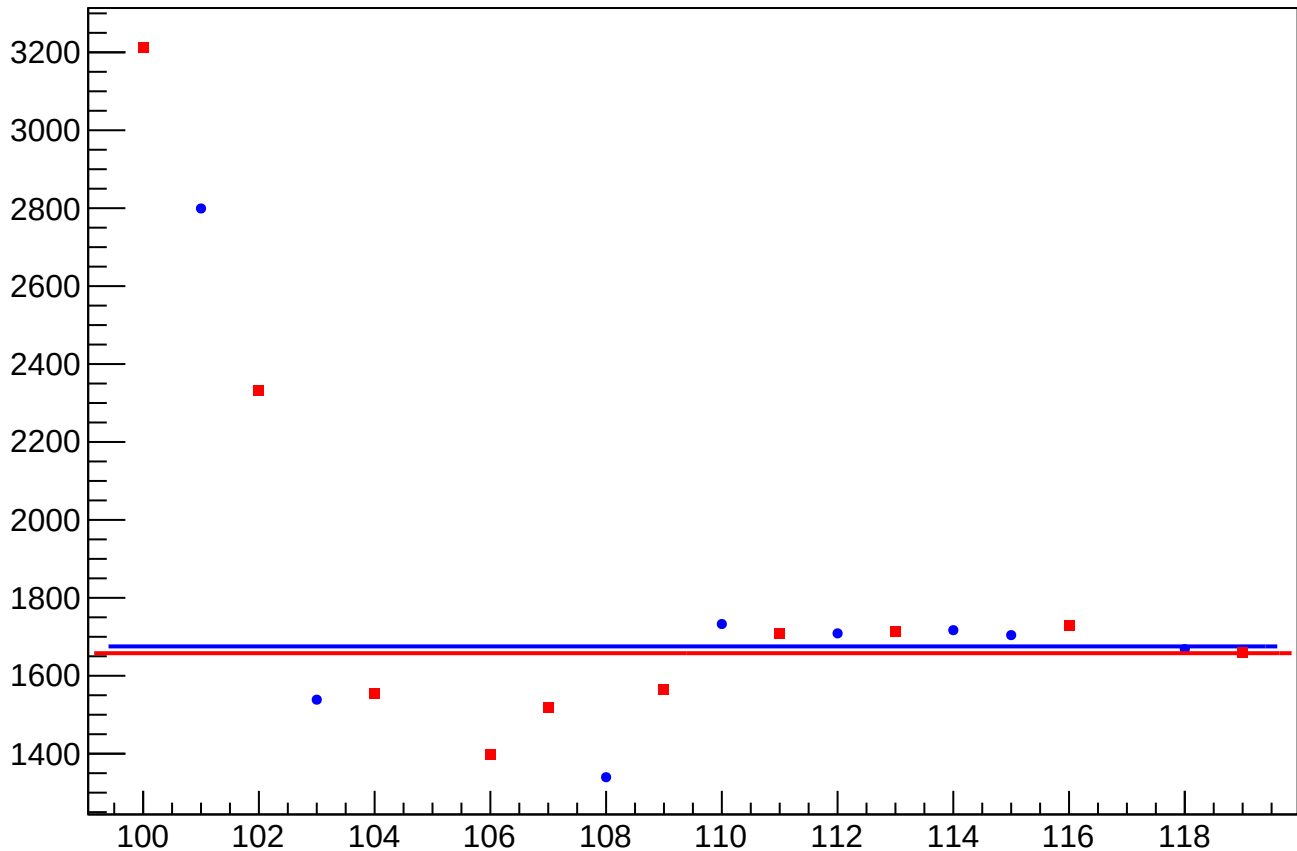
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 118.528 $\pm$ 634.751  $\chi^2$ /NDF: 25.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_at2\_avg\_rms vs Slug



Right In: 1675.322+/-0.666  $\chi^2/\text{NDF}$ : 268392.7/7

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

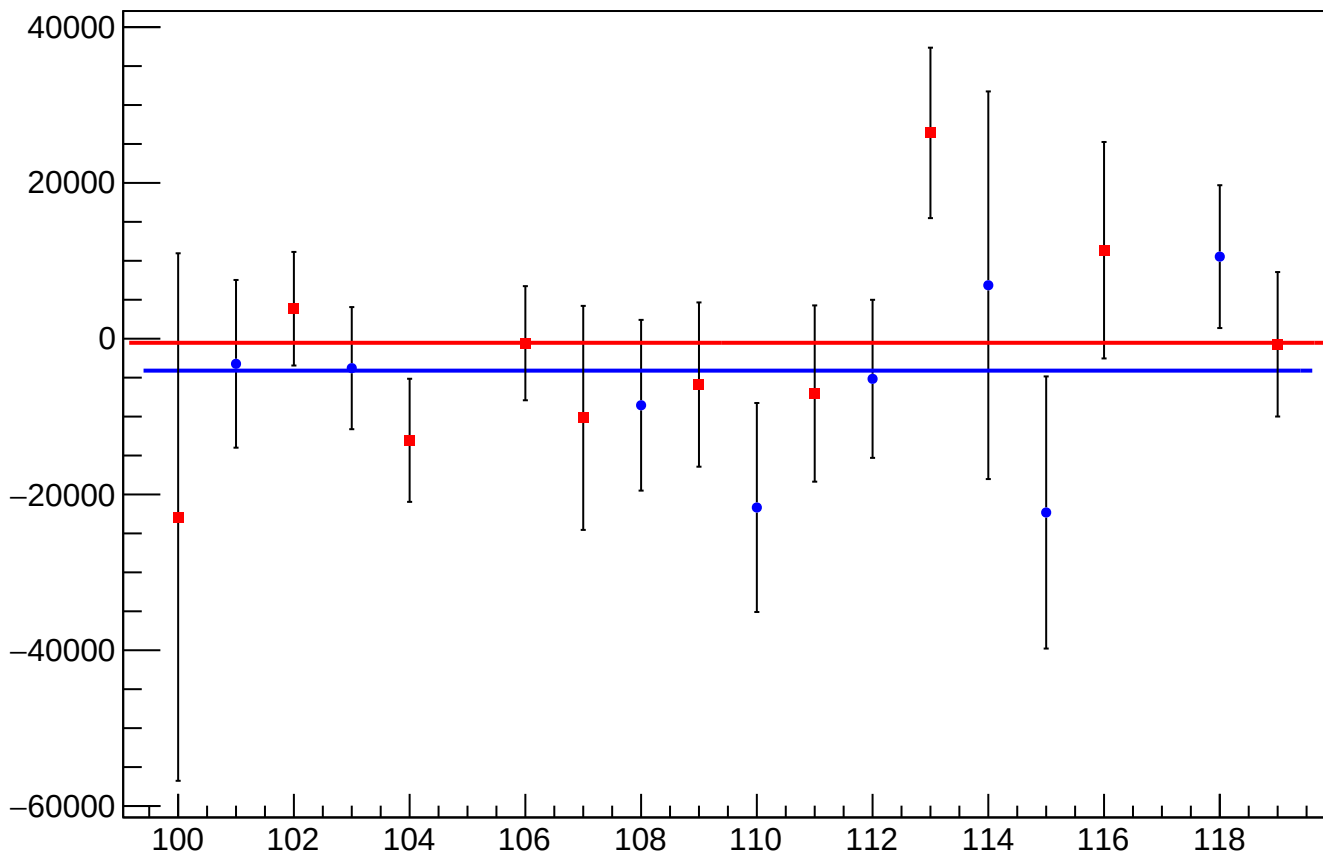
Right Out: 1657.939+/-0.607  $\chi^2/\text{NDF}$ : 136434.7/9

All: 1665.820+/-0.449  $\chi^2/\text{NDF}$ : 405199.4/17

- 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\_eigen\_dit\_correction\_mean vs Slug



Right In: -4100.905+/-3913.943  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -527.031+/-3144.788  $\chi^2/\text{NDF}$ : 11.1/9

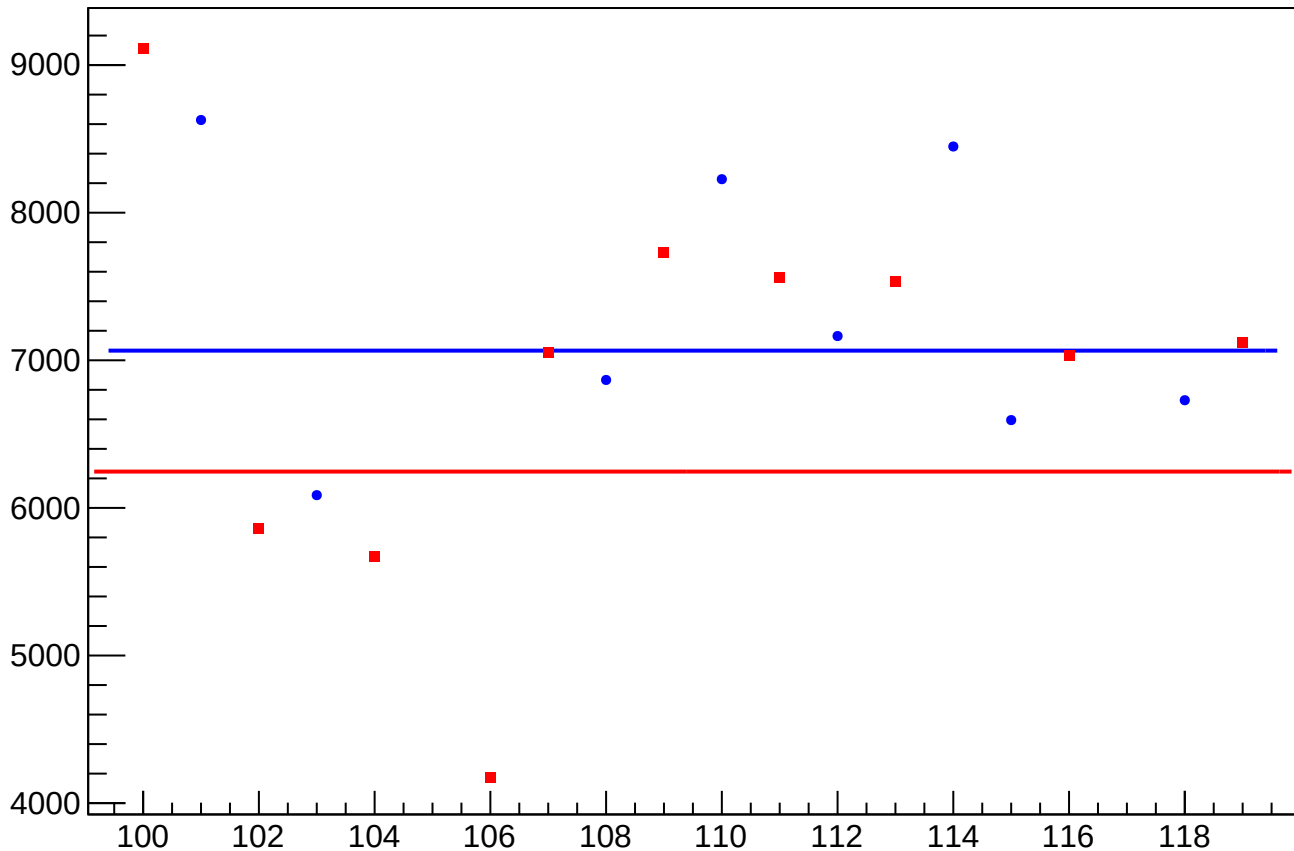
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1929.110+/-2451.496  $\chi^2/\text{NDF}$ : 17.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 7065.518+/-2.768  $\chi^2/\text{NDF}$ : 99462.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6246.071+/-2.224  $\chi^2/\text{NDF}$ : 315120.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

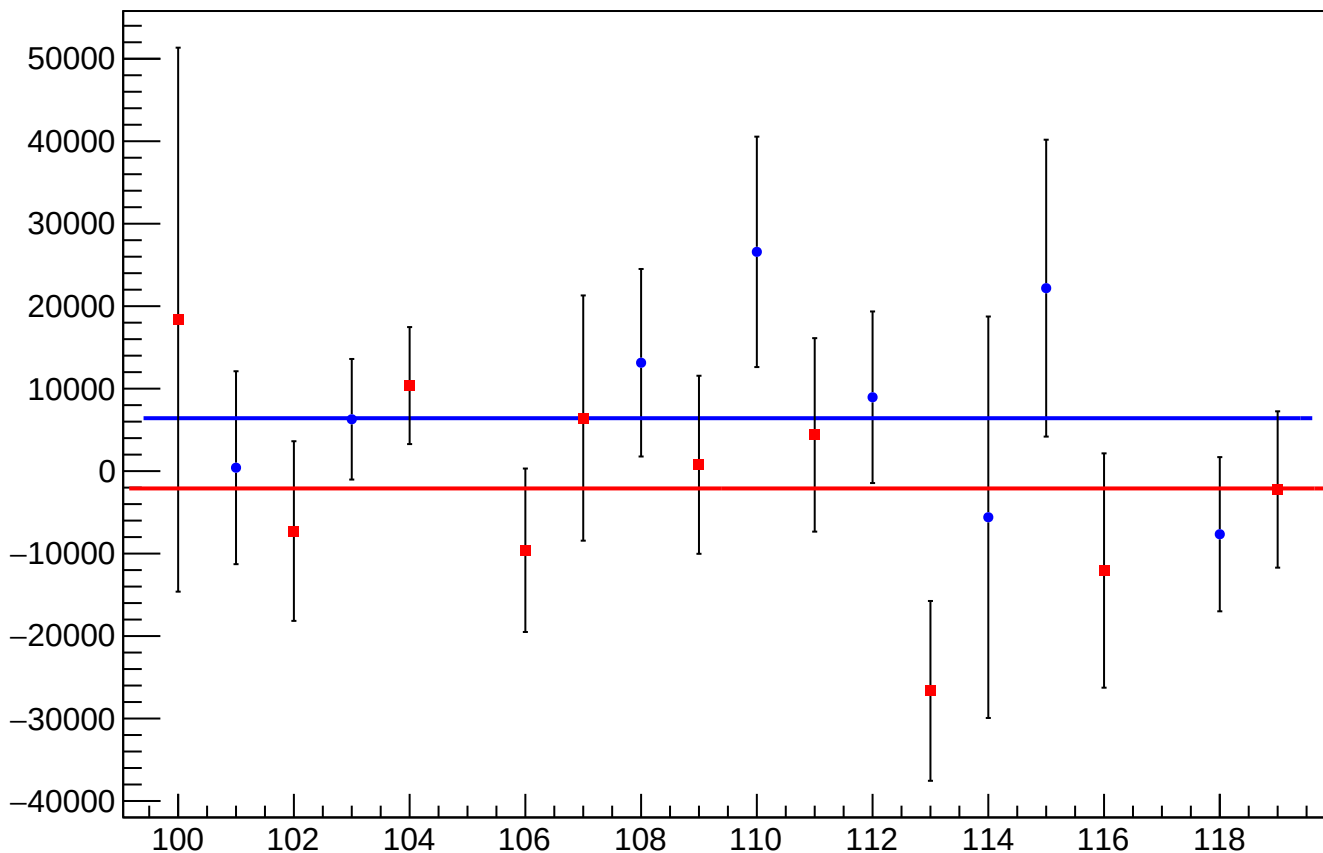
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6567.551+/-1.733  $\chi^2/\text{NDF}$ : 467858.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_at2\_avg\_mean vs Slug



Right In: 6416.366+/-3942.534  $\chi^2/\text{NDF}$ : 6.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2101.895+/-3444.738  $\chi^2/\text{NDF}$ : 10.5/9

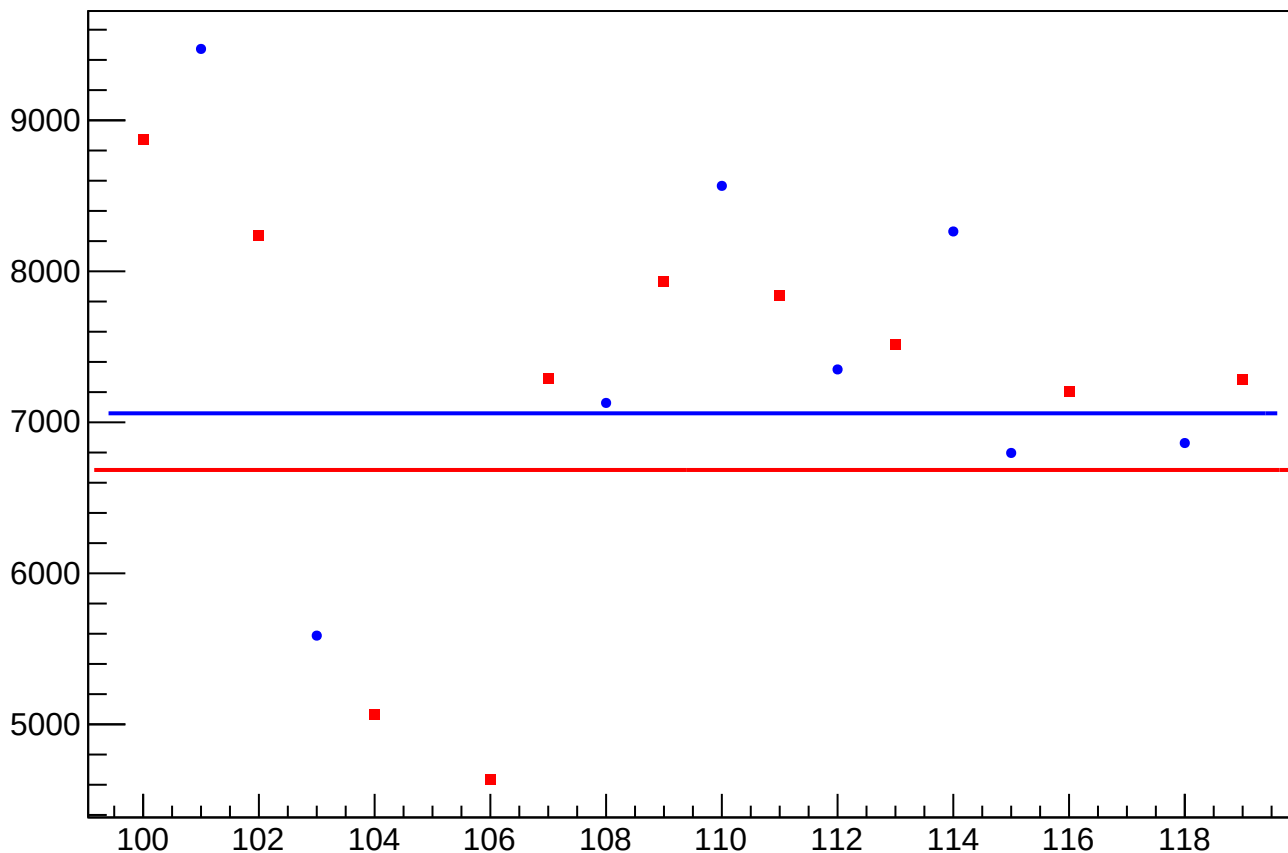
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1585.822+/-2594.052  $\chi^2/\text{NDF}$ : 19.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_rms vs Slug



Right In: 7059.655 $\pm$ 2.788  $\chi^2$ /NDF: 197326.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6684.521 $\pm$ 2.436  $\chi^2$ /NDF: 311424.3/9

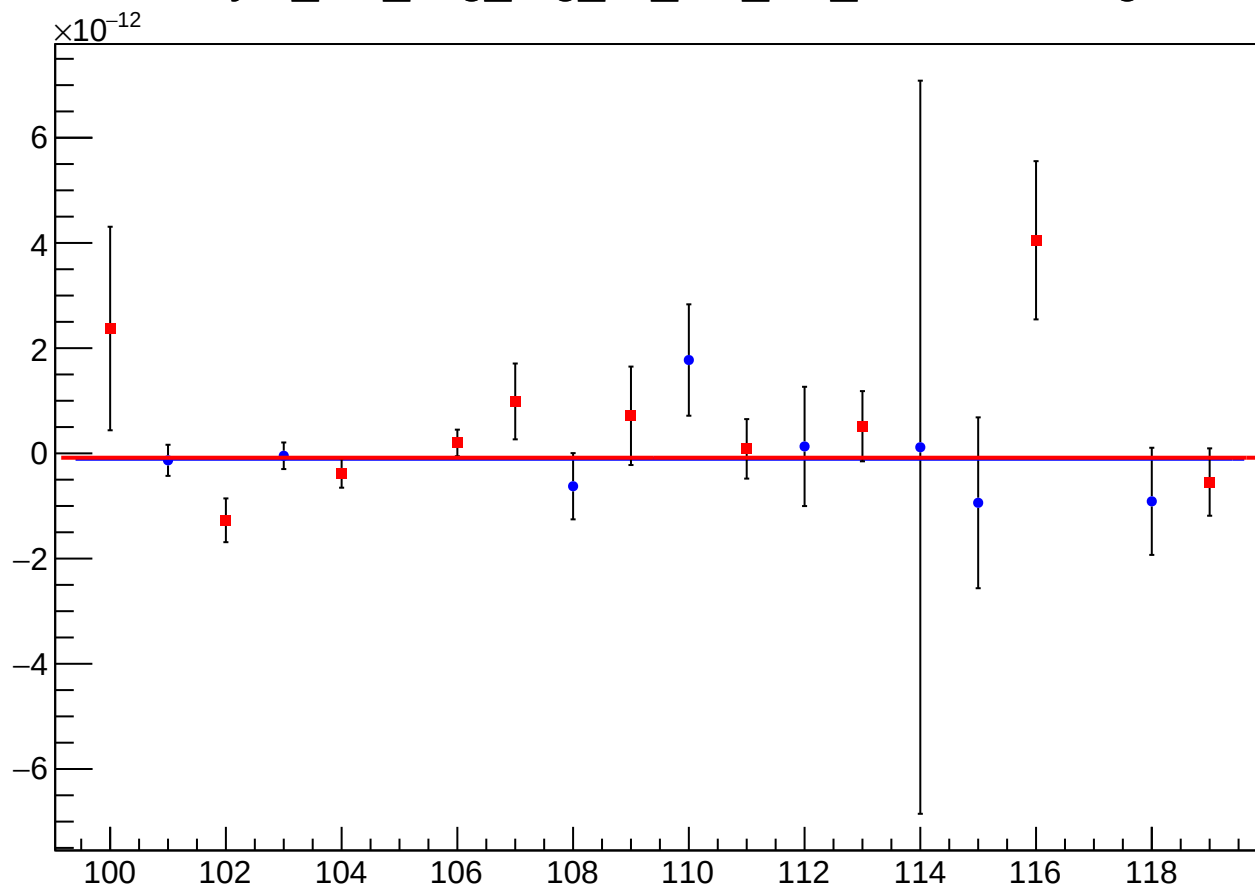
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6846.905 $\pm$ 1.834  $\chi^2$ /NDF: 519020.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 4.8/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 24.0/9

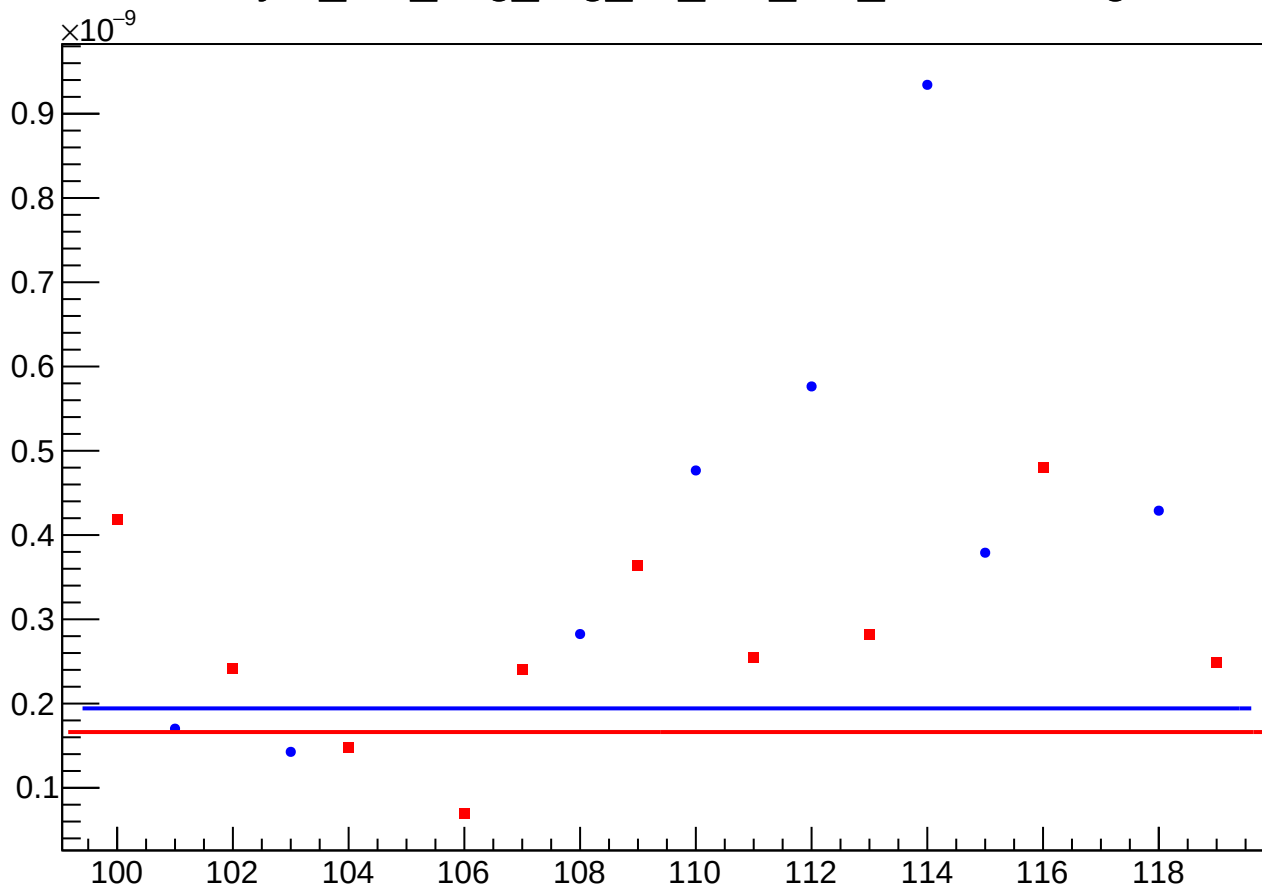
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 28.8/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 659869.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 742035.6/9

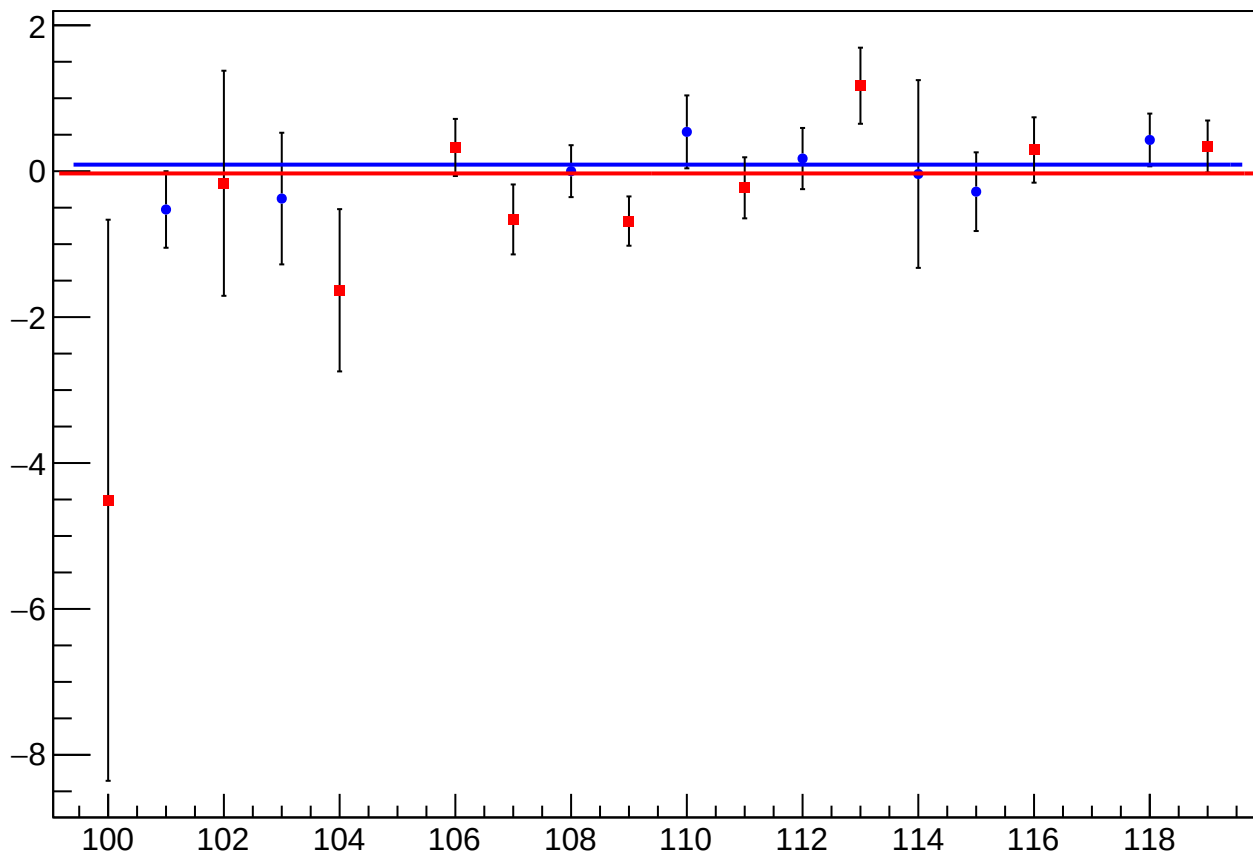
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1431989.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.090 $\pm$ 0.171  $\chi^2$ /NDF: 3.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.031 $\pm$ 0.152  $\chi^2$ /NDF: 16.8/9

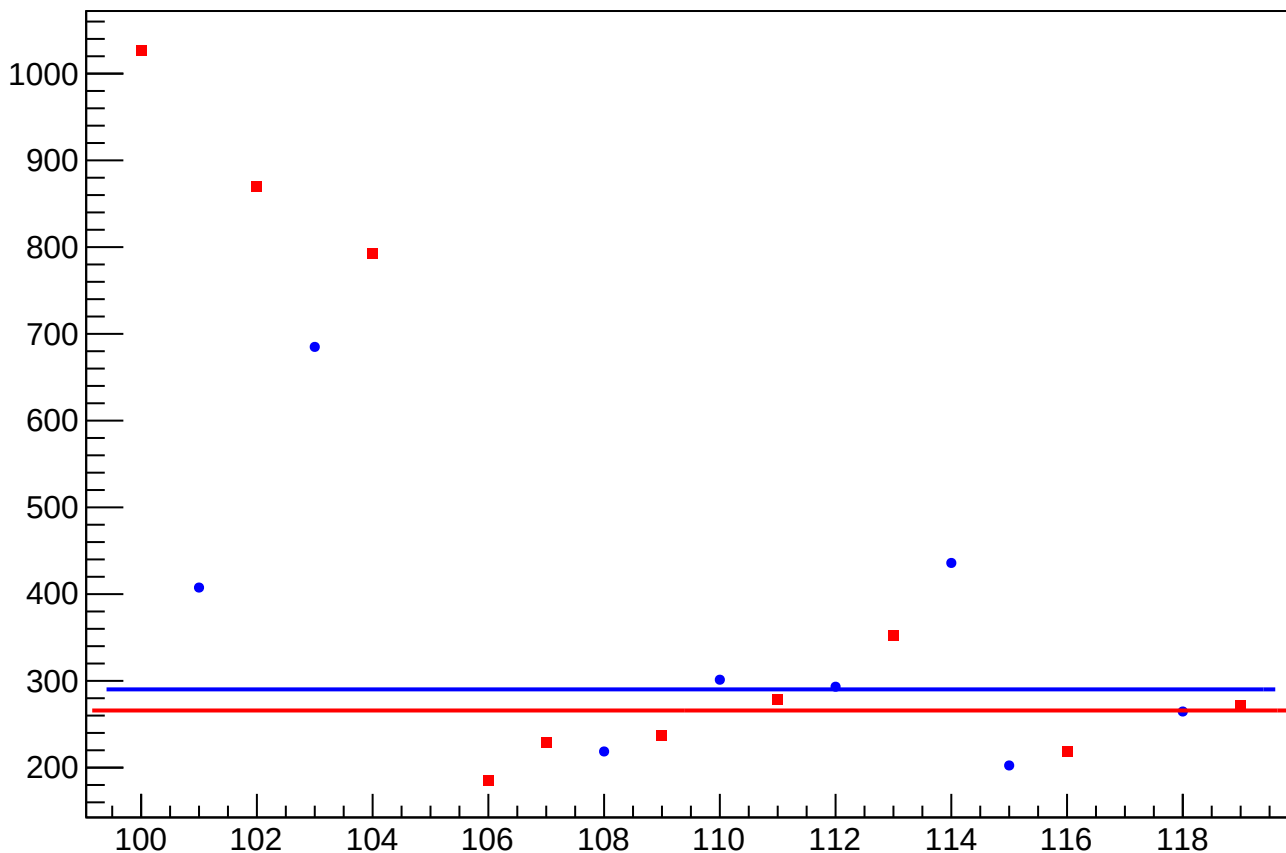
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.023 $\pm$ 0.114  $\chi^2$ /NDF: 21.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 290.195 $\pm$ 0.121  $\chi^2$ /NDF: 653666.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 265.865 $\pm$ 0.108  $\chi^2$ /NDF: 1025160.8/9

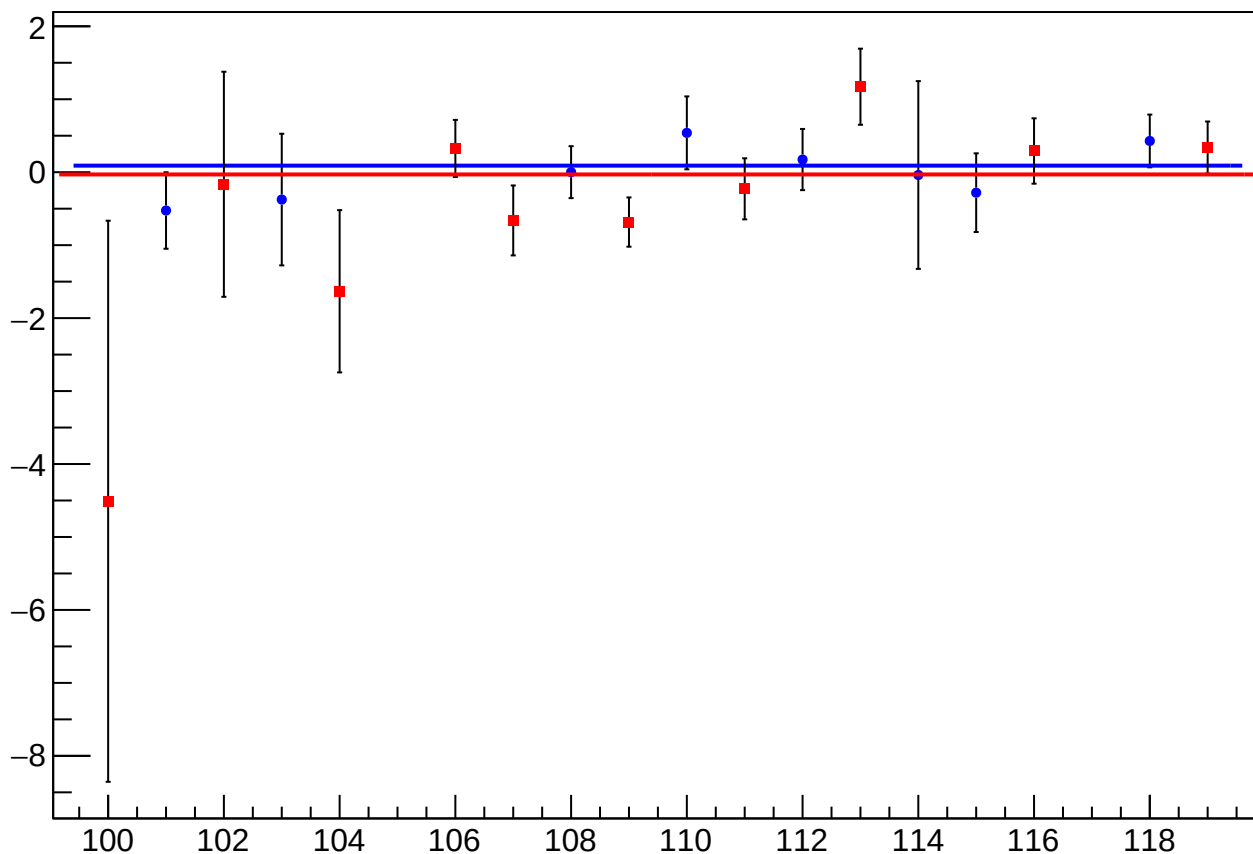
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 276.613 $\pm$ 0.080  $\chi^2$ /NDF: 1701398.3/17

- 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: 0.090 $\pm$ 0.171  $\chi^2$ /NDF: 3.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.031 $\pm$ 0.152  $\chi^2$ /NDF: 16.8/9

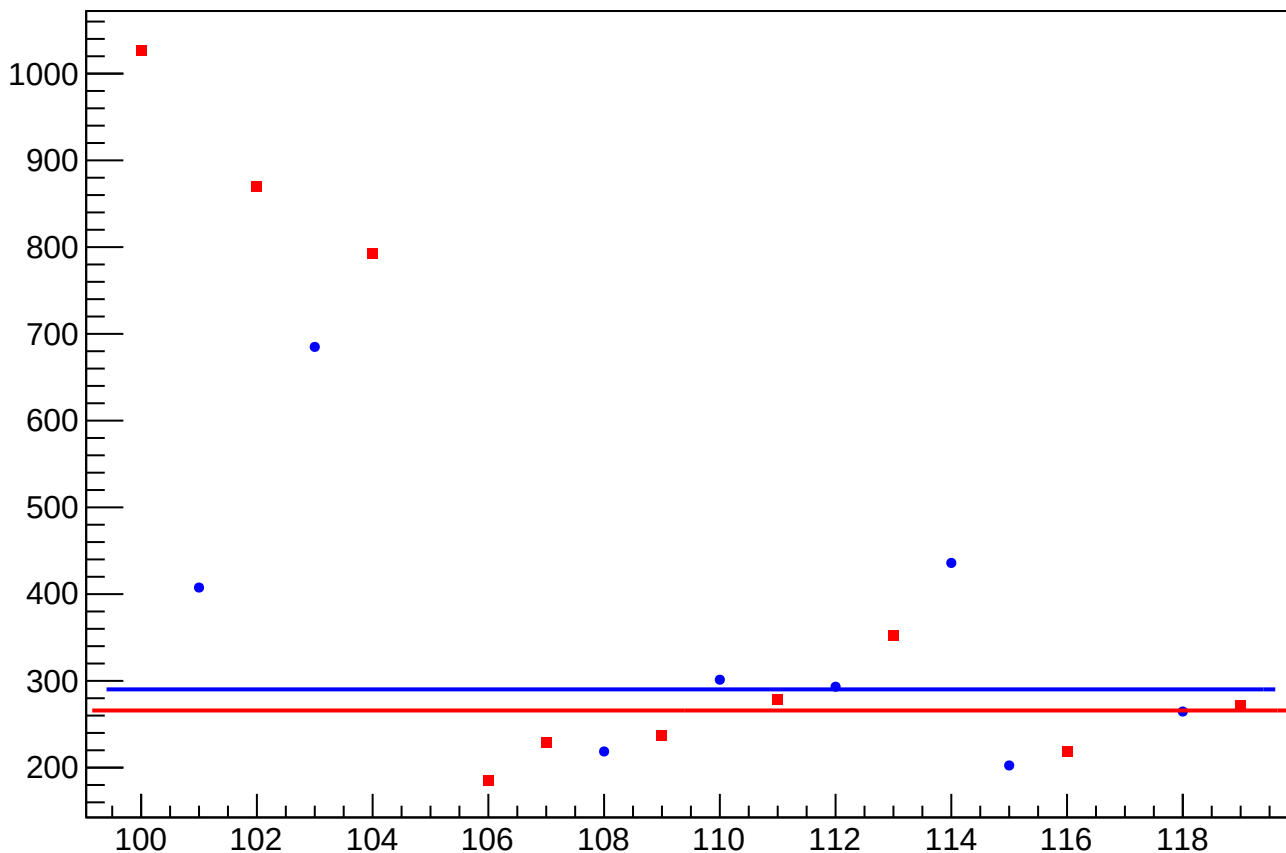
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.023 $\pm$ 0.114  $\chi^2$ /NDF: 21.0/17

- 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: 290.195+/-0.121  $\chi^2/\text{NDF}$ : 653666.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 265.865+/-0.108  $\chi^2/\text{NDF}$ : 1025160.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

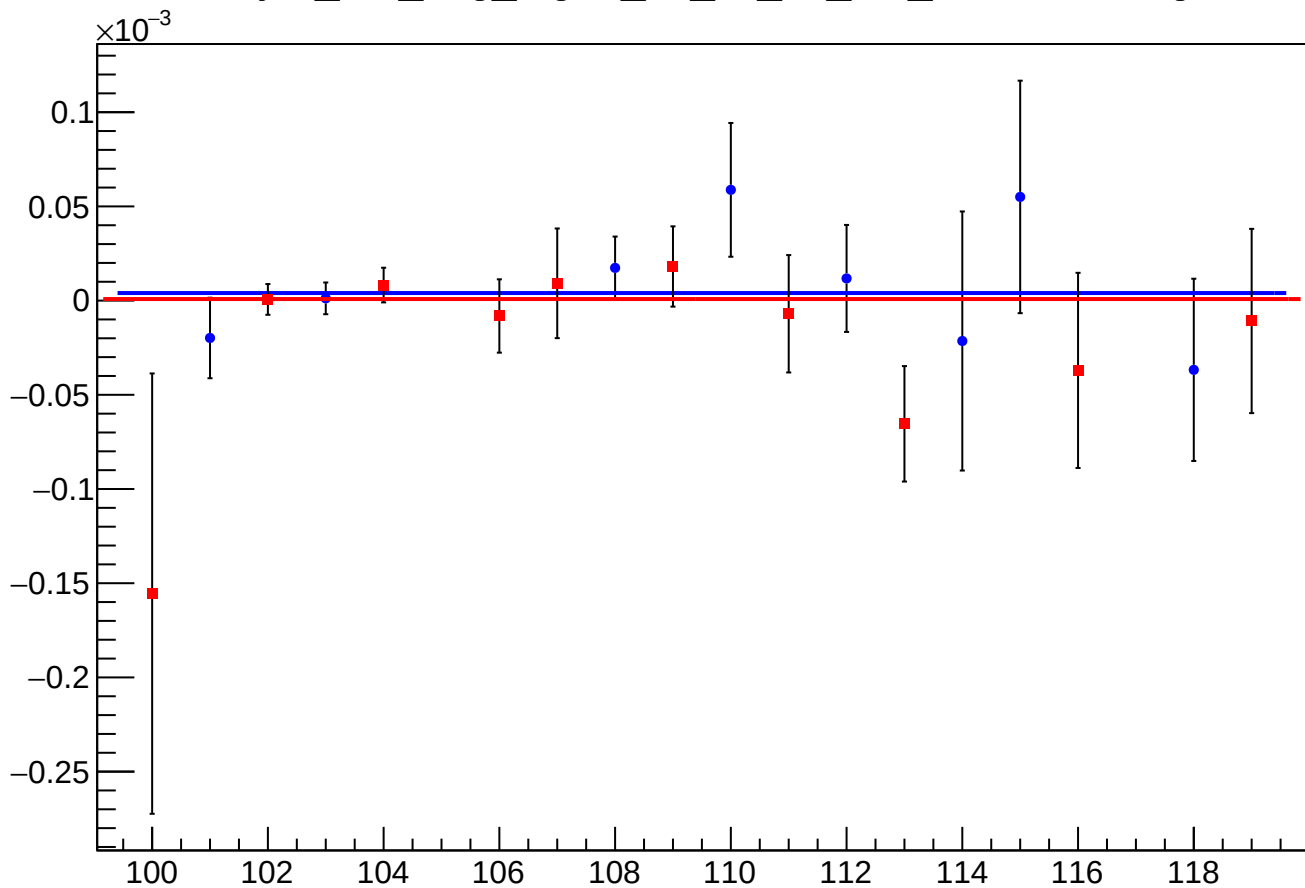
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 276.613+/-0.080  $\chi^2/\text{NDF}$ : 1701398.3/17

- 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: 6.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.7/9

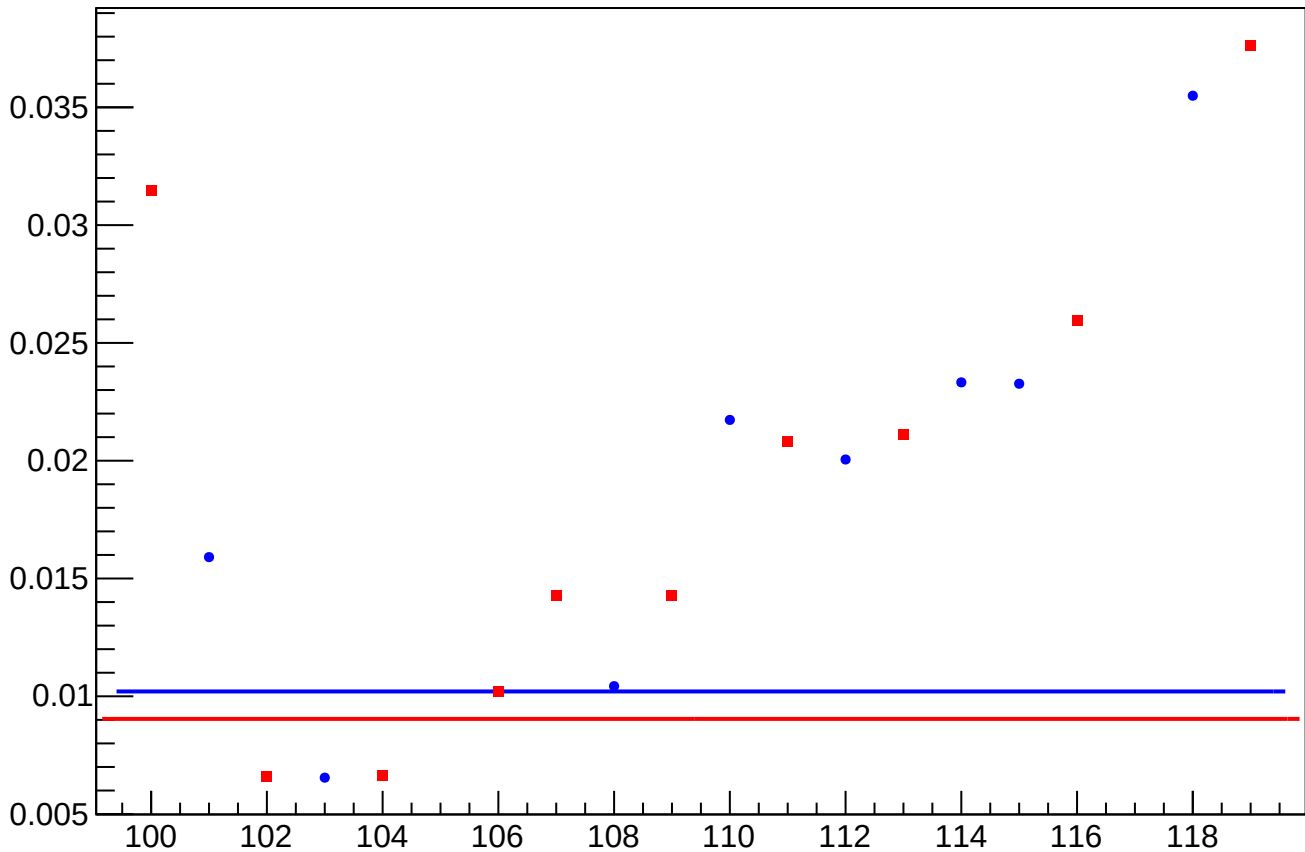
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.9/17

- 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: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 1681182.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 2079222.5/9

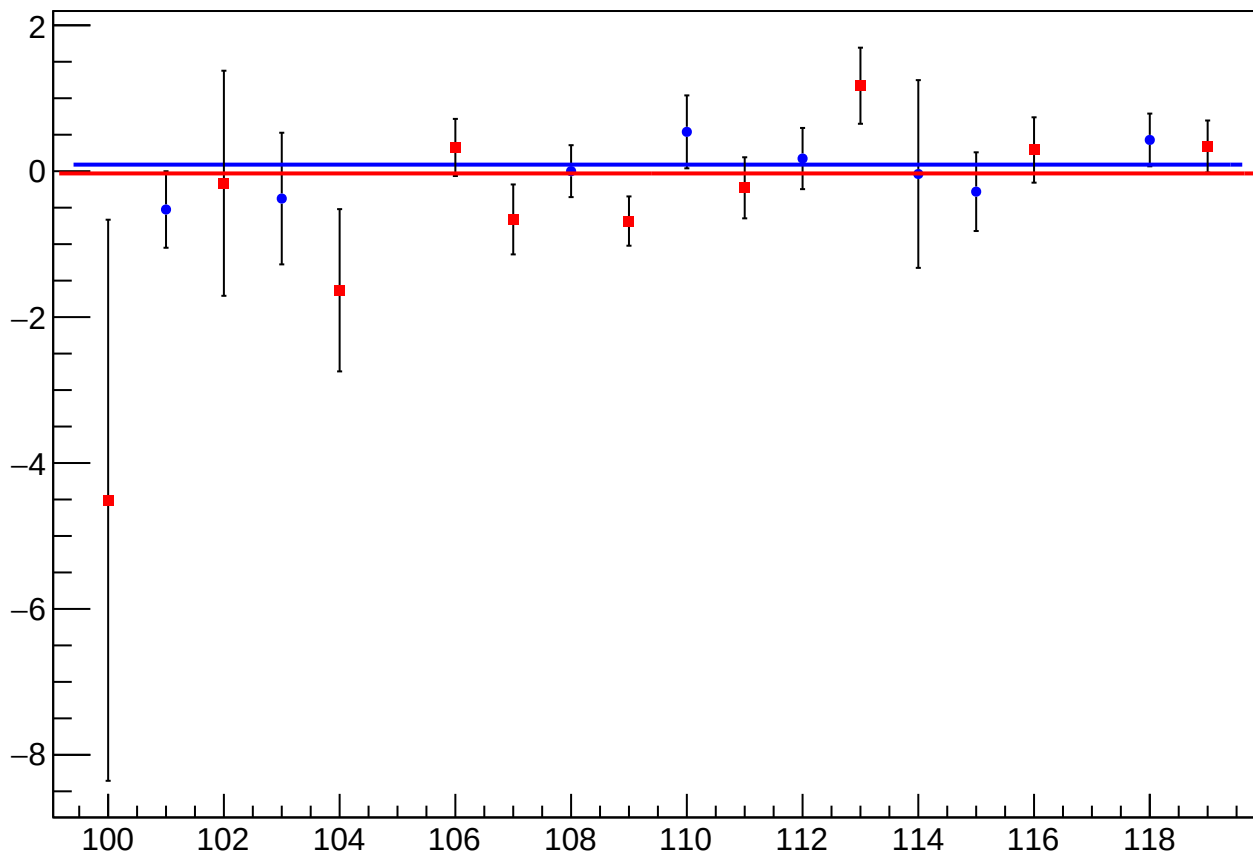
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 3798301.2/17

- 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: 0.090 $\pm$ 0.171  $\chi^2$ /NDF: 3.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.031 $\pm$ 0.152  $\chi^2$ /NDF: 16.8/9

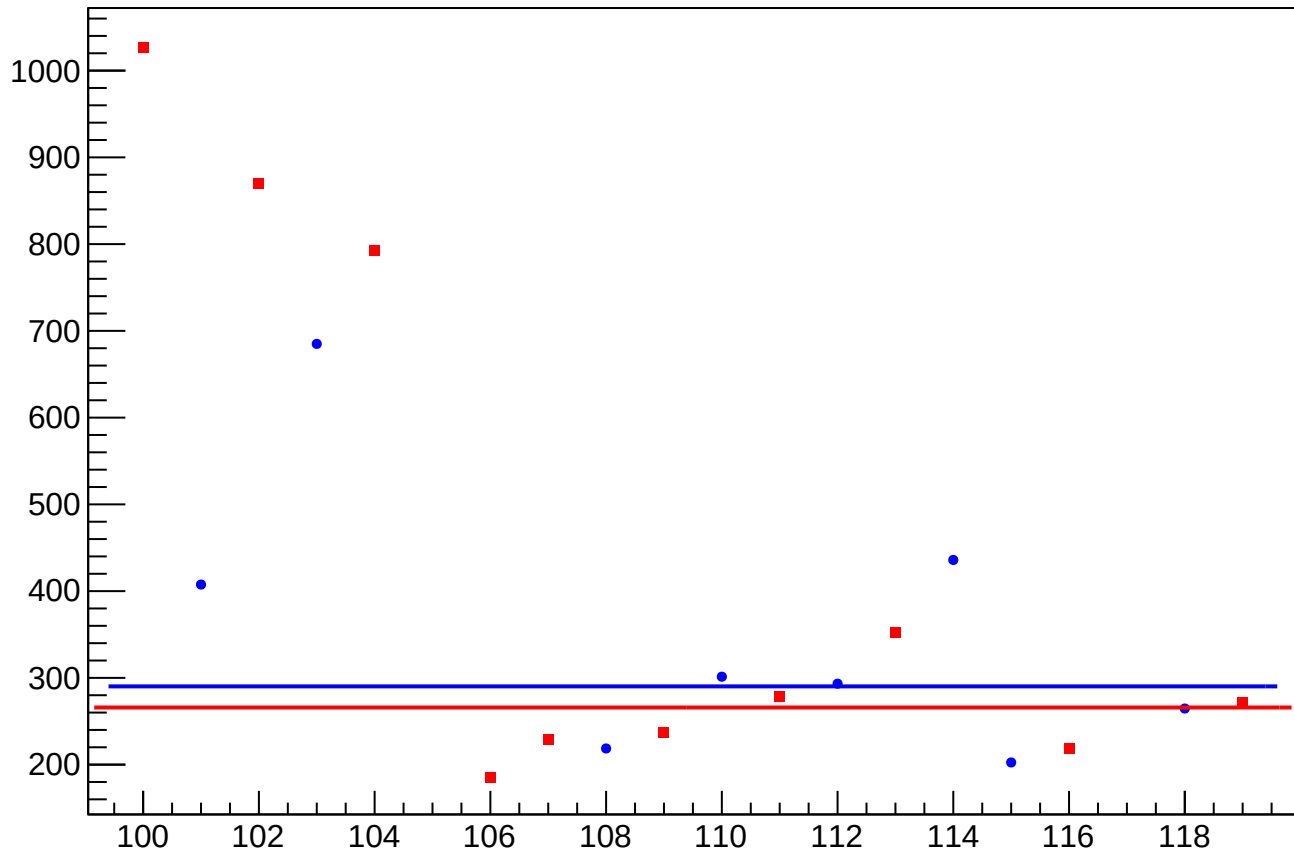
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.023 $\pm$ 0.114  $\chi^2$ /NDF: 21.0/17

- 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: 290.196 $\pm$ 0.121  $\chi^2$ /NDF: 653648.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 265.867 $\pm$ 0.108  $\chi^2$ /NDF: 1025148.9/9

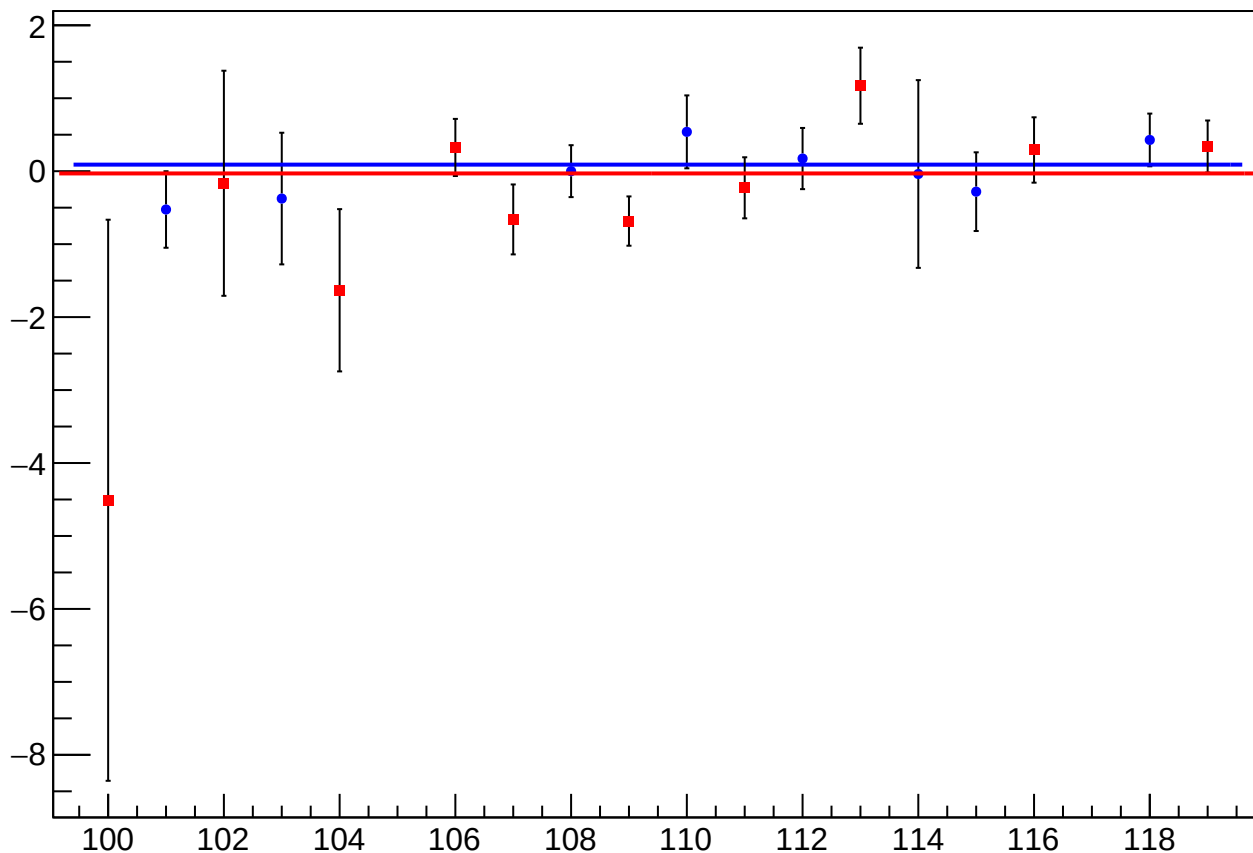
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 276.615 $\pm$ 0.080  $\chi^2$ /NDF: 1701366.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.090 $\pm$ 0.171  $\chi^2$ /NDF: 3.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.031 $\pm$ 0.152  $\chi^2$ /NDF: 16.8/9

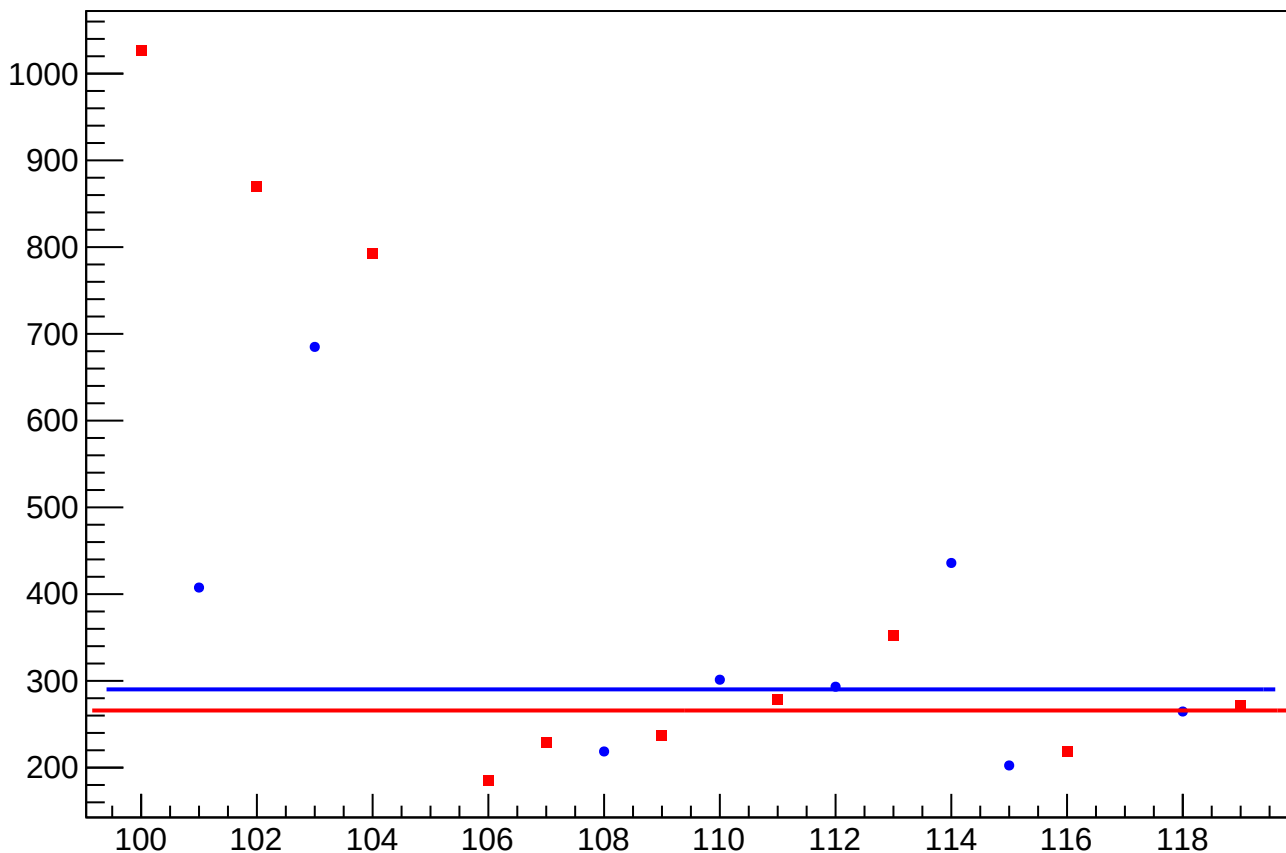
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.023 $\pm$ 0.114  $\chi^2$ /NDF: 21.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 290.196 $\pm$ 0.121  $\chi^2$ /NDF: 653648.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 265.867 $\pm$ 0.108  $\chi^2$ /NDF: 1025148.9/9

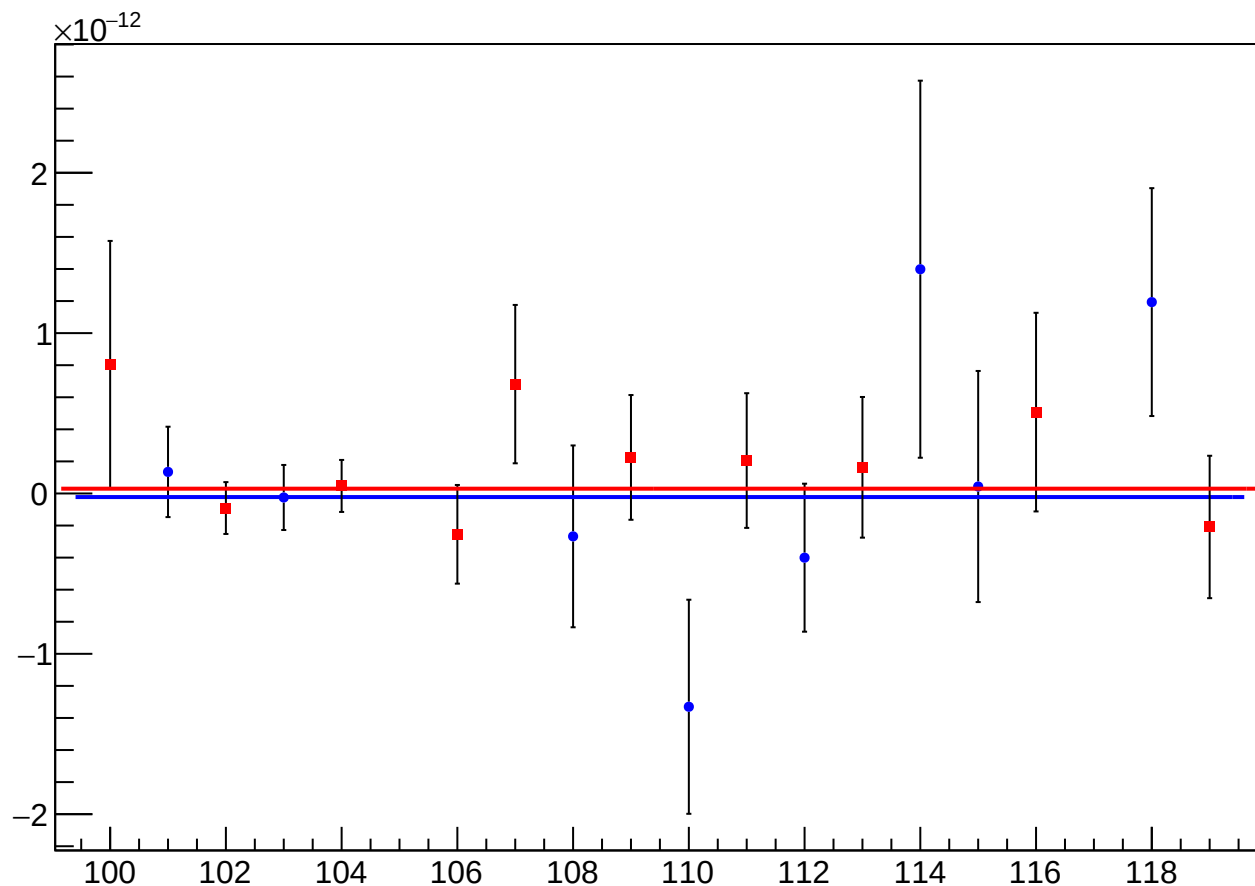
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 276.615 $\pm$ 0.080  $\chi^2$ /NDF: 1701366.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.6/9

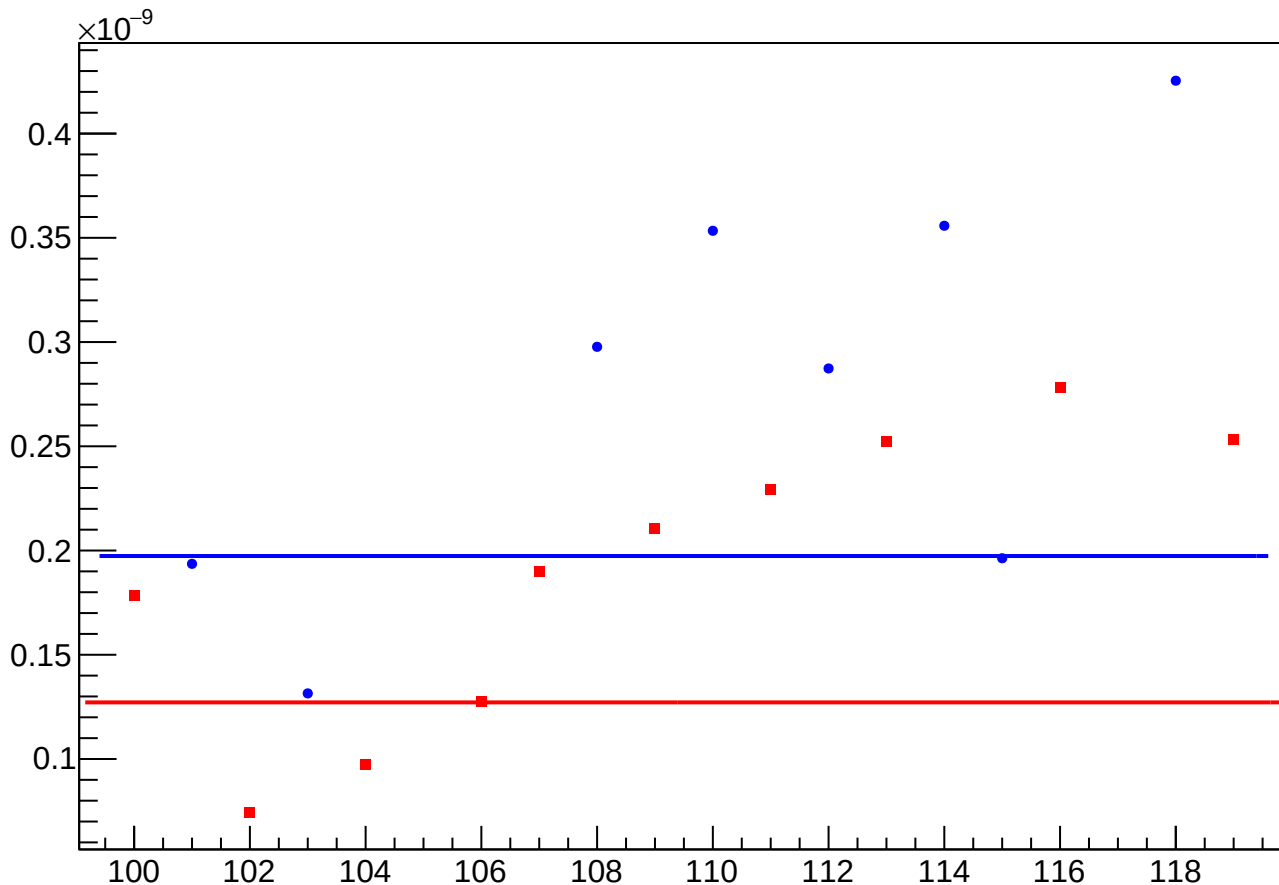
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 701545.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 973383.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

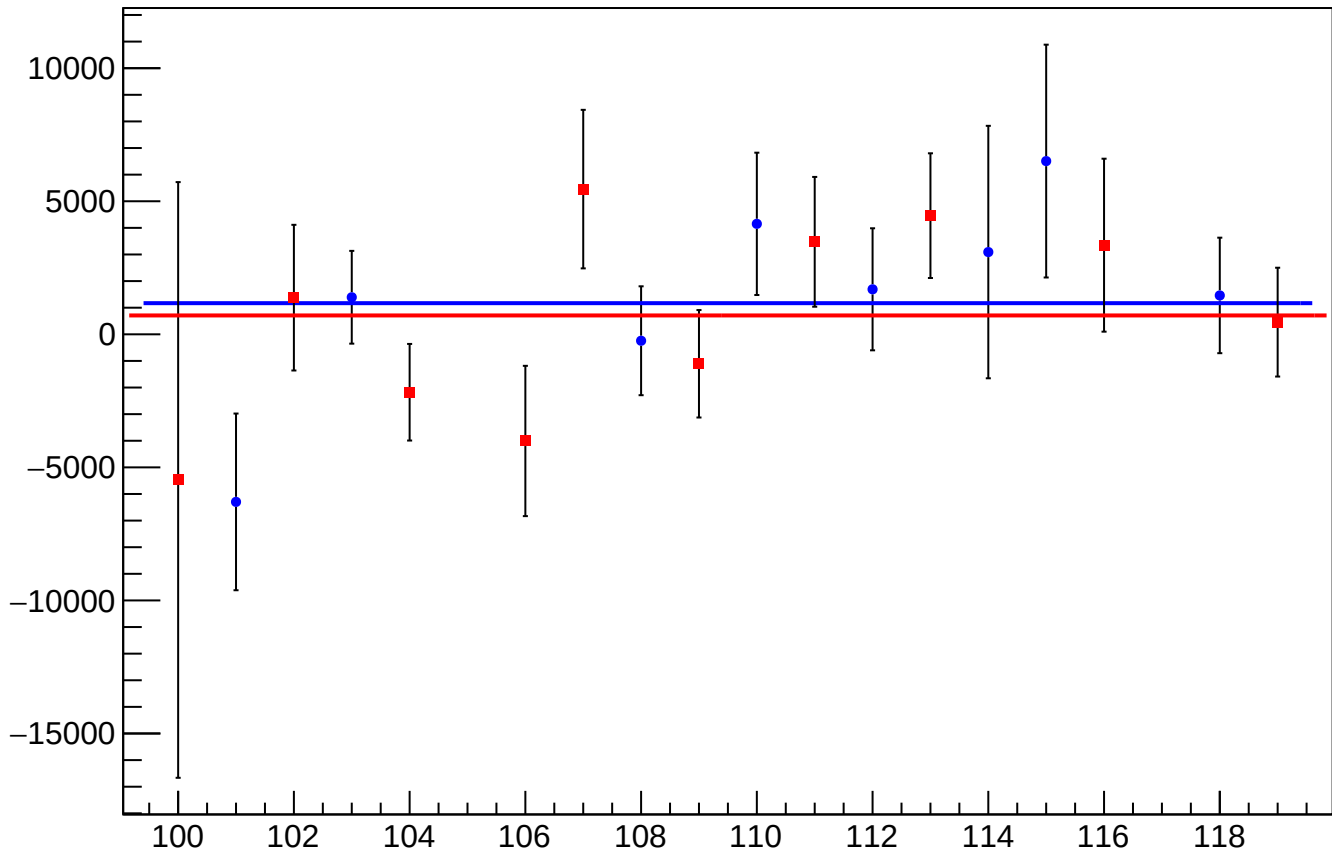
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2028558.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_at2\_dd\_mean vs Slug



Right In: 1170.387 $\pm$ 877.807  $\chi^2$ /NDF: 8.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 709.118 $\pm$ 787.464  $\chi^2$ /NDF: 13.6/9

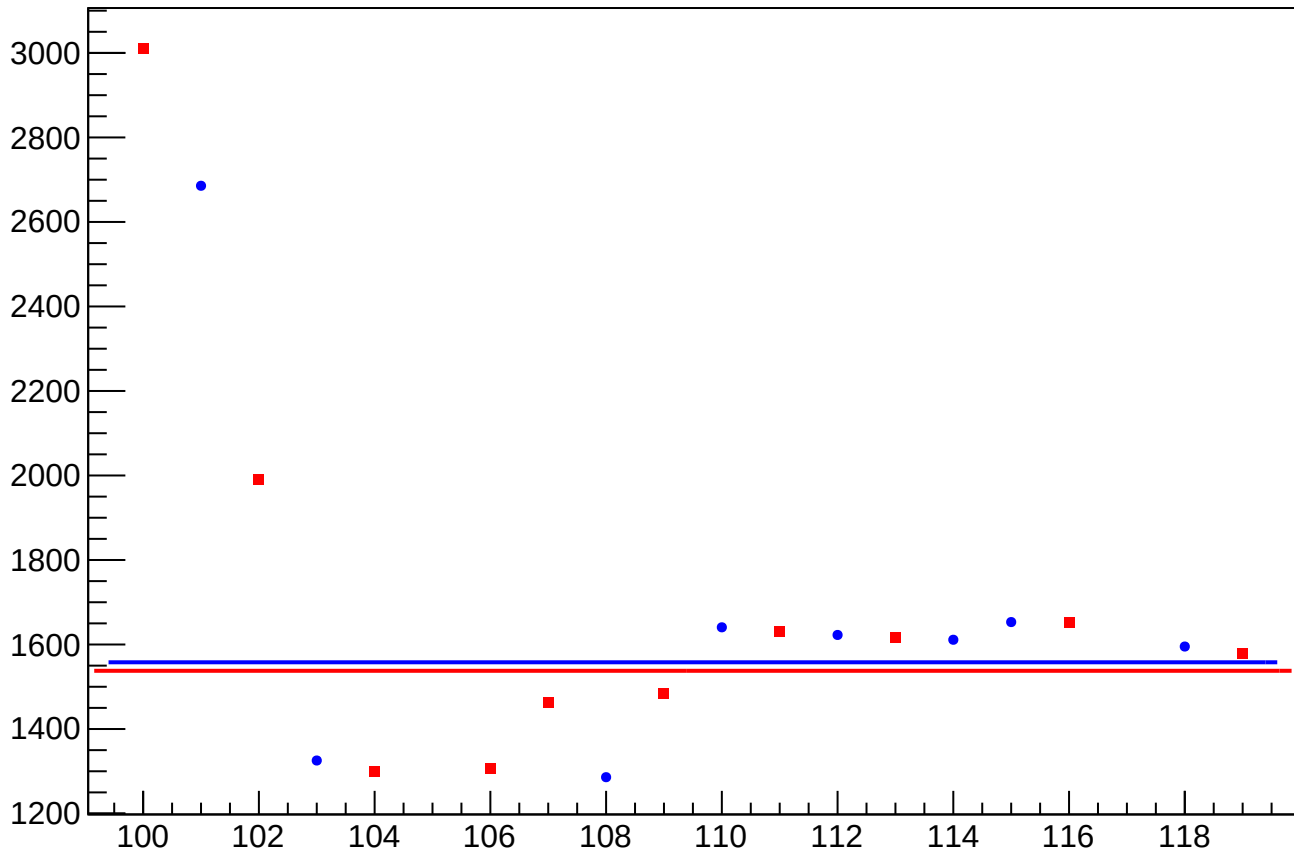
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 914.802 $\pm$ 586.167  $\chi^2$ /NDF: 22.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_dd\_rms vs Slug



Right In: 1557.918 $\pm$ 0.621  $\chi^2$ /NDF: 306978.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1537.784 $\pm$ 0.557  $\chi^2$ /NDF: 147873.0/9

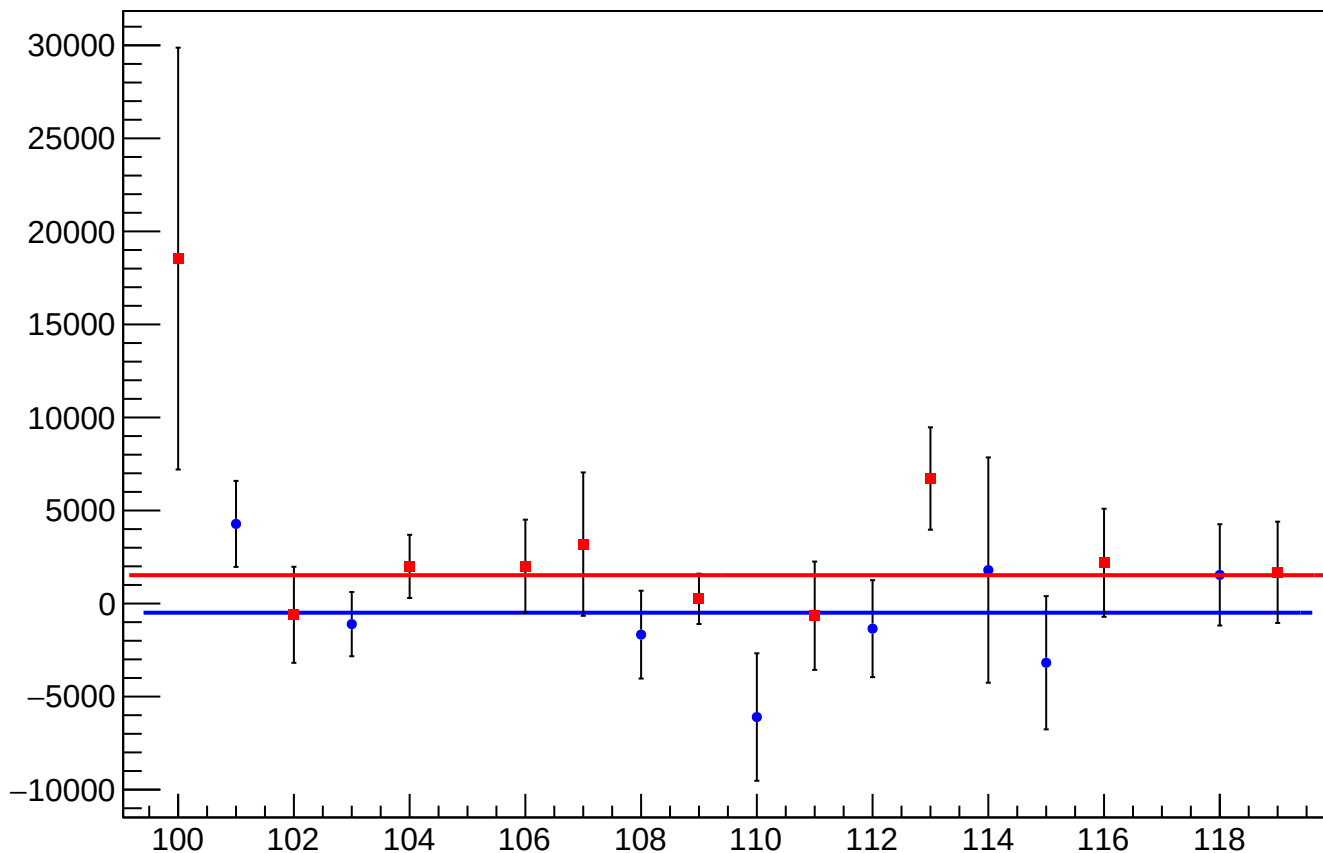
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1546.762 $\pm$ 0.414  $\chi^2$ /NDF: 455434.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_reg\_correction\_mean vs Slug



Right In: -492.195+/-922.629  $\chi^2/\text{NDF}$ : 8.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1524.984+/-748.938  $\chi^2/\text{NDF}$ : 8.3/9

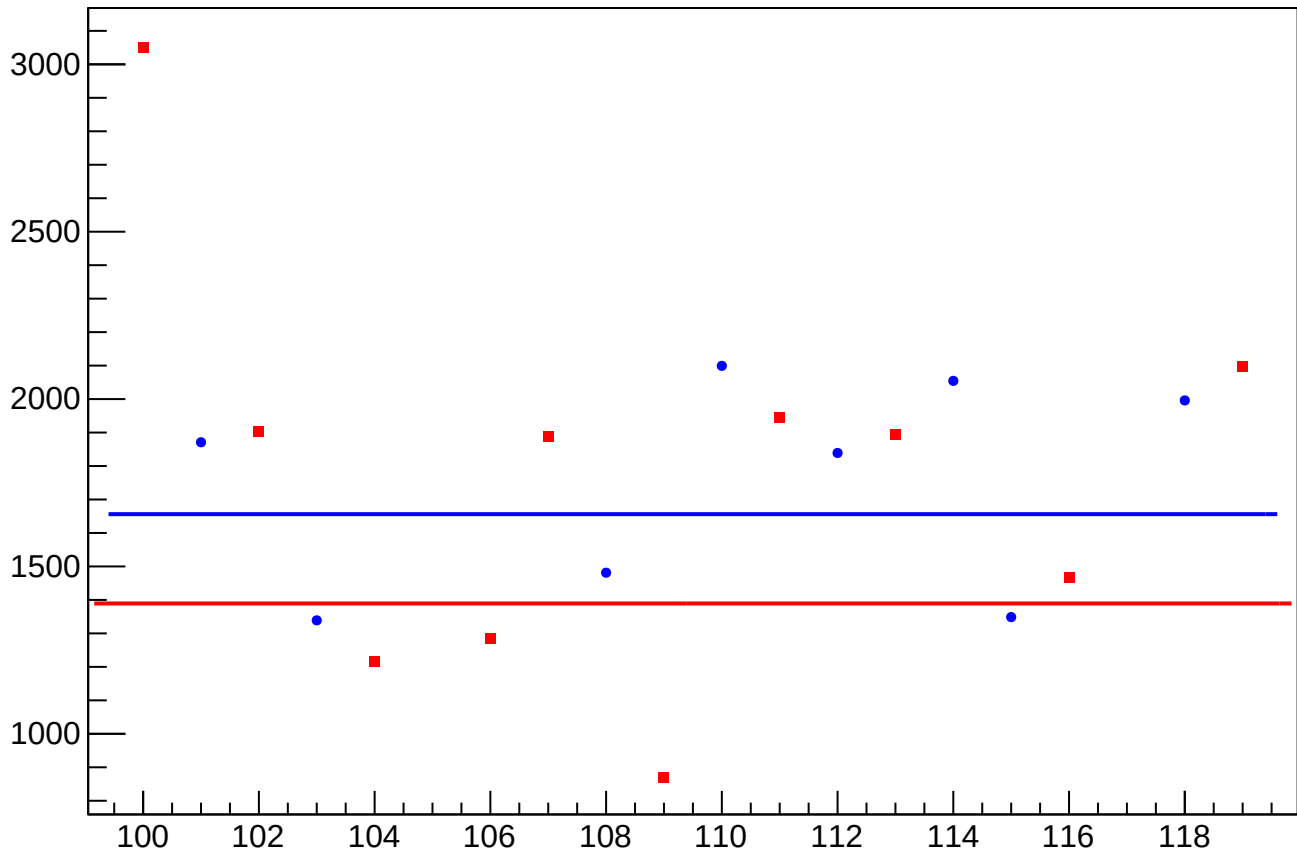
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 723.759+/-581.477  $\chi^2/\text{NDF}$ : 19.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_reg\_correction\_rms vs Slug



Right In: 1656.207 $\pm$ 0.652  $\chi^2$ /NDF: 193593.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1389.401 $\pm$ 0.530  $\chi^2$ /NDF: 752961.0/9

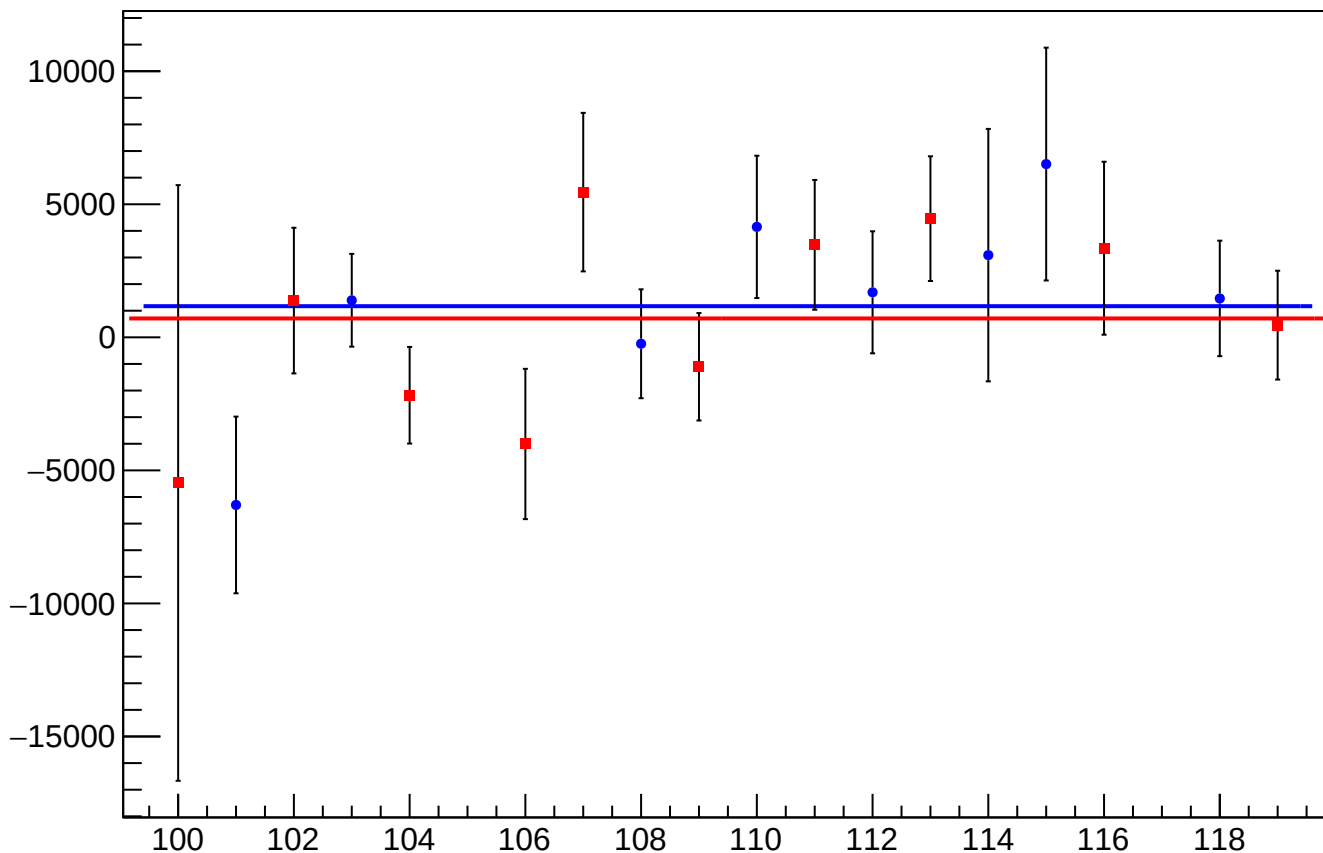
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1495.376 $\pm$ 0.411  $\chi^2$ /NDF: 1047373.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_at2\_dd\_mean vs Slug



Right In: 1170.202 $\pm$ 877.807  $\chi^2$ /NDF: 8.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 709.506 $\pm$ 787.464  $\chi^2$ /NDF: 13.6/9

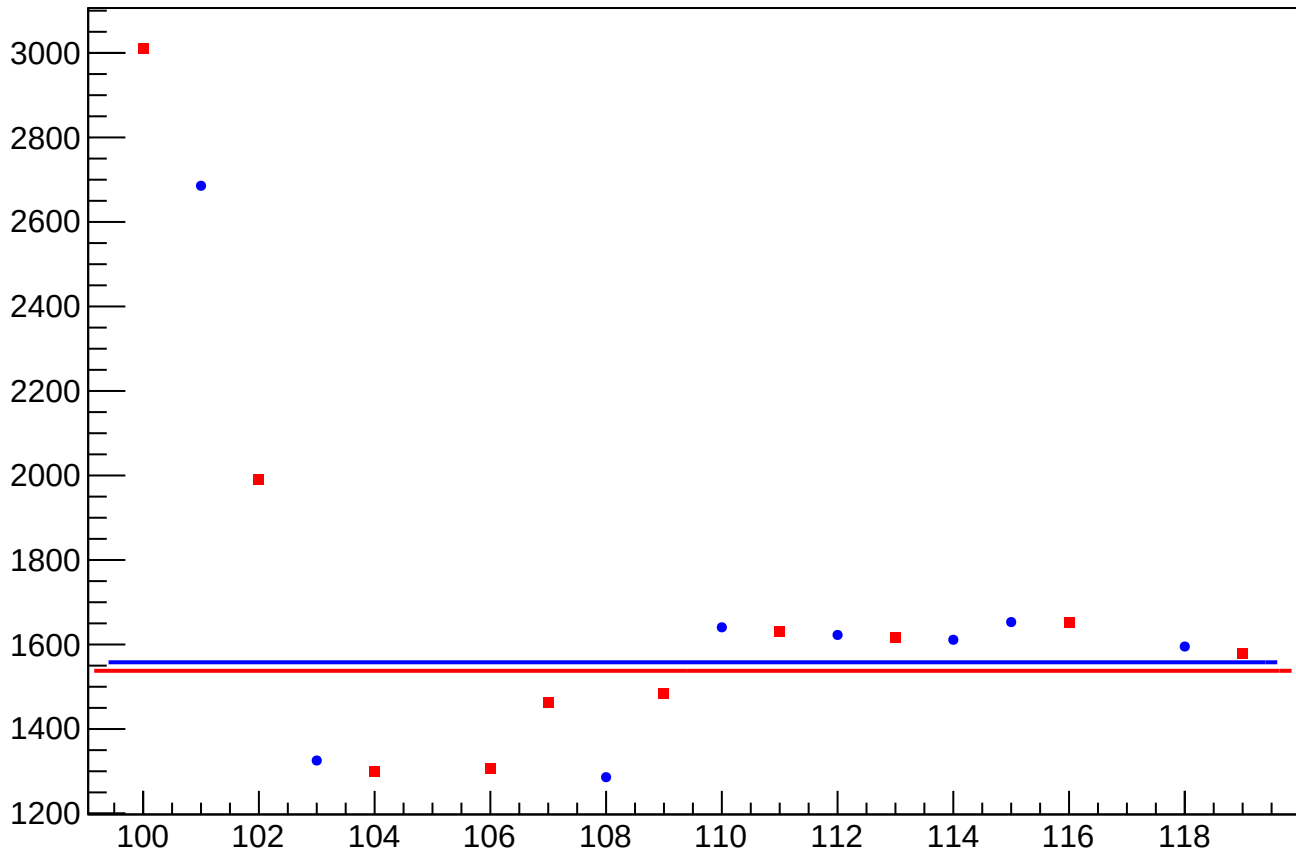
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 914.934 $\pm$ 586.167  $\chi^2$ /NDF: 22.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_at2\_dd\_rms vs Slug



Right In: 1557.918 $\pm$ 0.621  $\chi^2$ /NDF: 306978.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1537.783 $\pm$ 0.557  $\chi^2$ /NDF: 147872.7/9

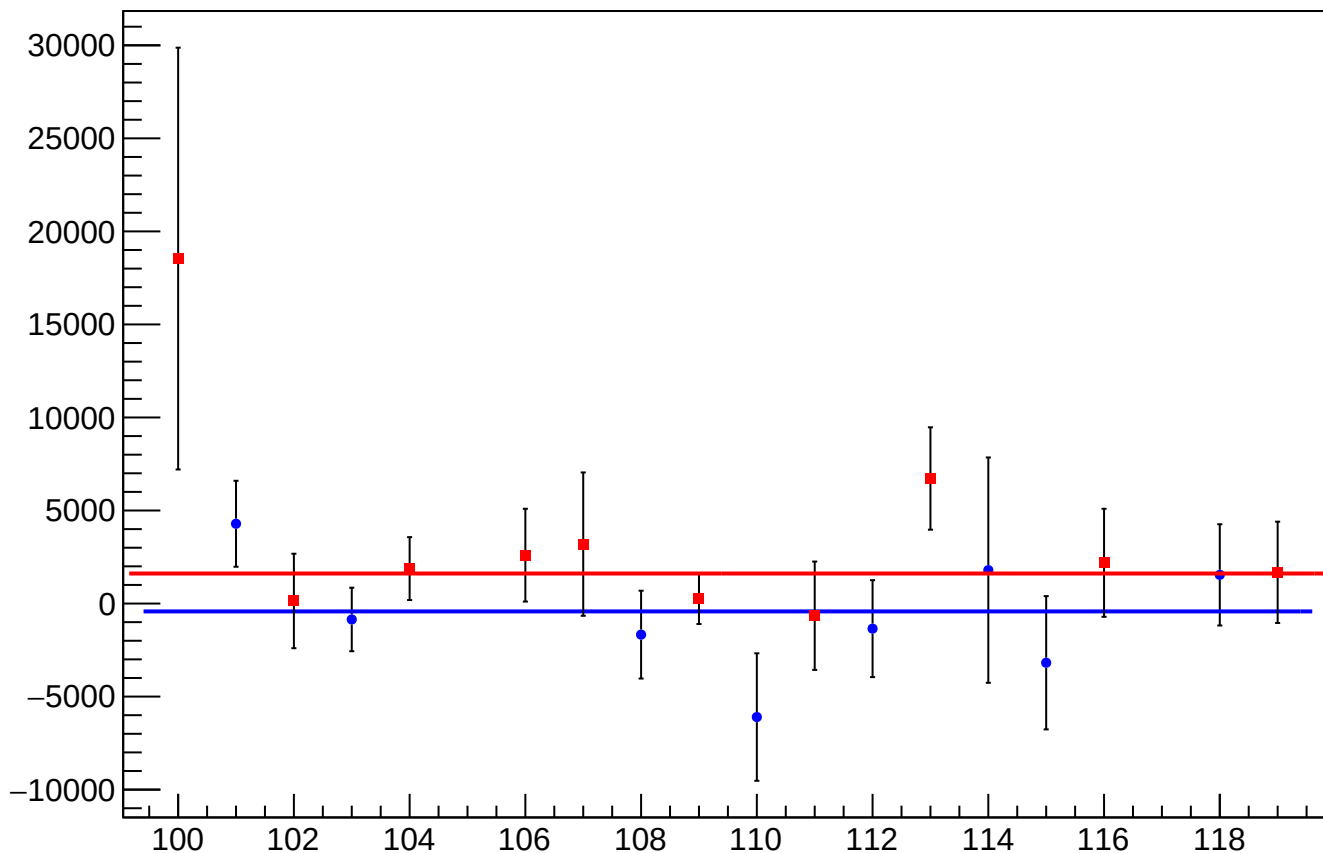
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1546.761 $\pm$ 0.414  $\chi^2$ /NDF: 455434.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_cor\_correction\_mean vs Slug



Right In: -422.524+/-919.305  $\chi^2/\text{NDF}$ : 8.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1614.458+/-747.071  $\chi^2/\text{NDF}$ : 8.0/9

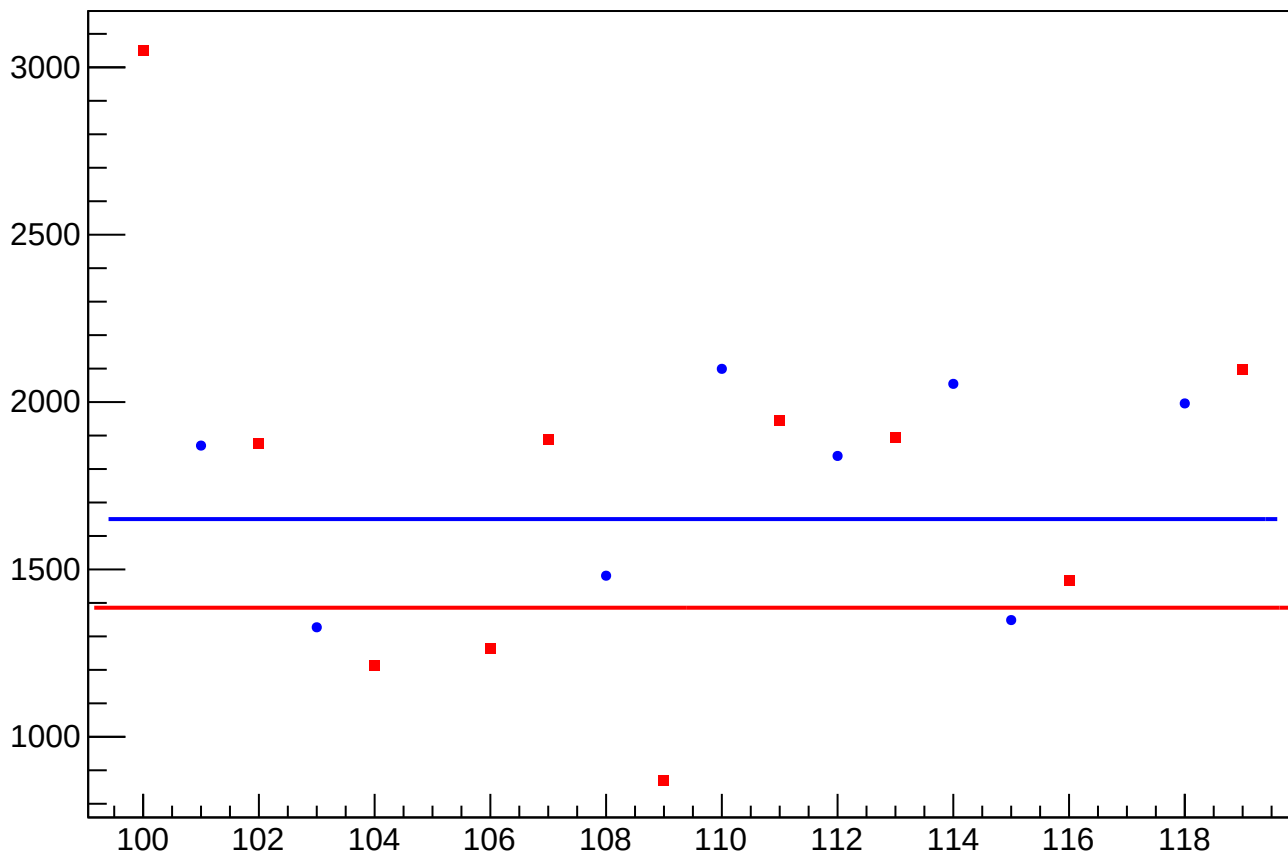
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 804.282+/-579.770  $\chi^2/\text{NDF}$ : 19.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_cor\_correction\_rms vs Slug



Right In: 1650.436+/-0.650  $\chi^2/\text{NDF}$ : 200279.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1385.681+/-0.528  $\chi^2/\text{NDF}$ : 748914.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

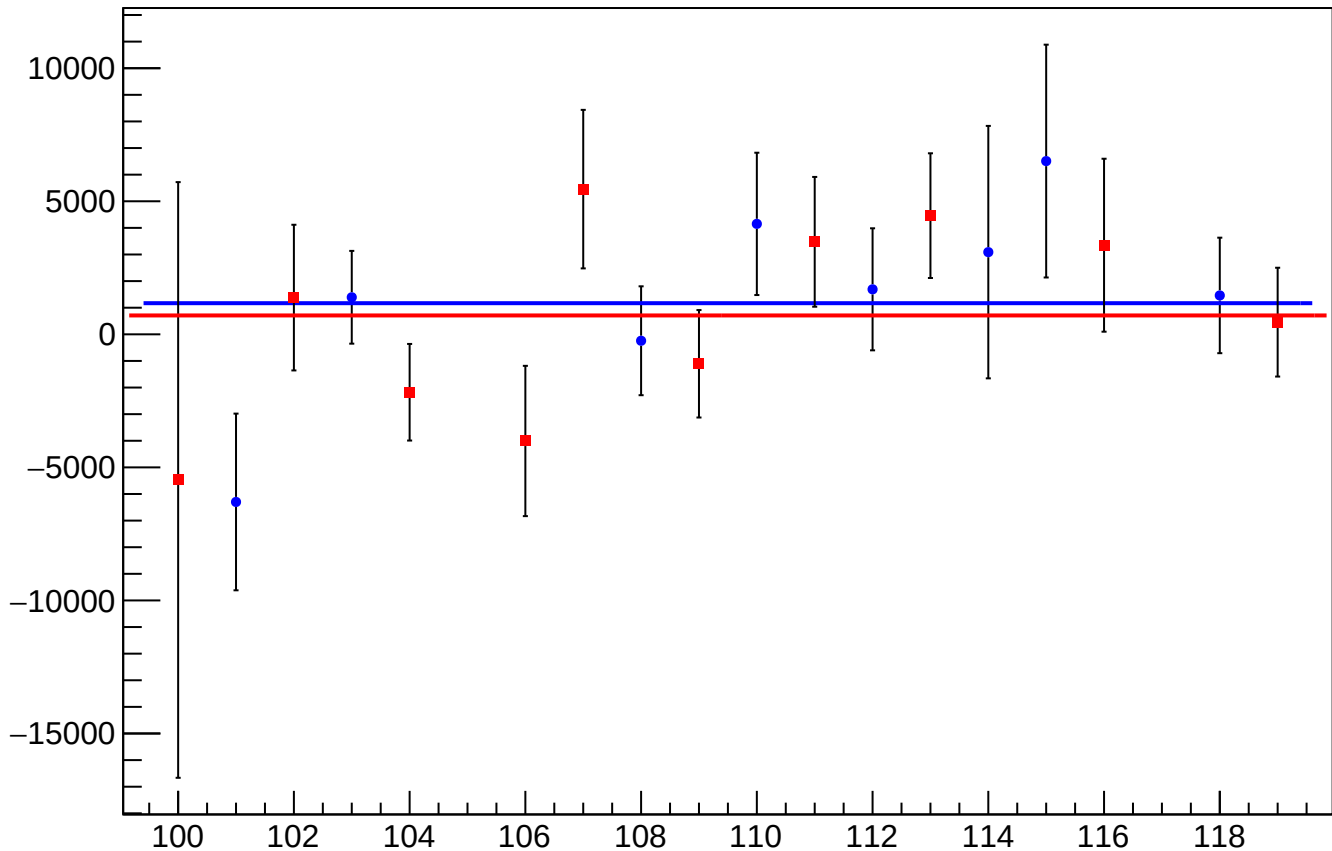
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1490.983+/-0.410  $\chi^2/\text{NDF}$ : 1049097.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_at2\_dd\_mean vs Slug



Right In: 1170.202 $\pm$ 877.807  $\chi^2$ /NDF: 8.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 709.506 $\pm$ 787.464  $\chi^2$ /NDF: 13.6/9

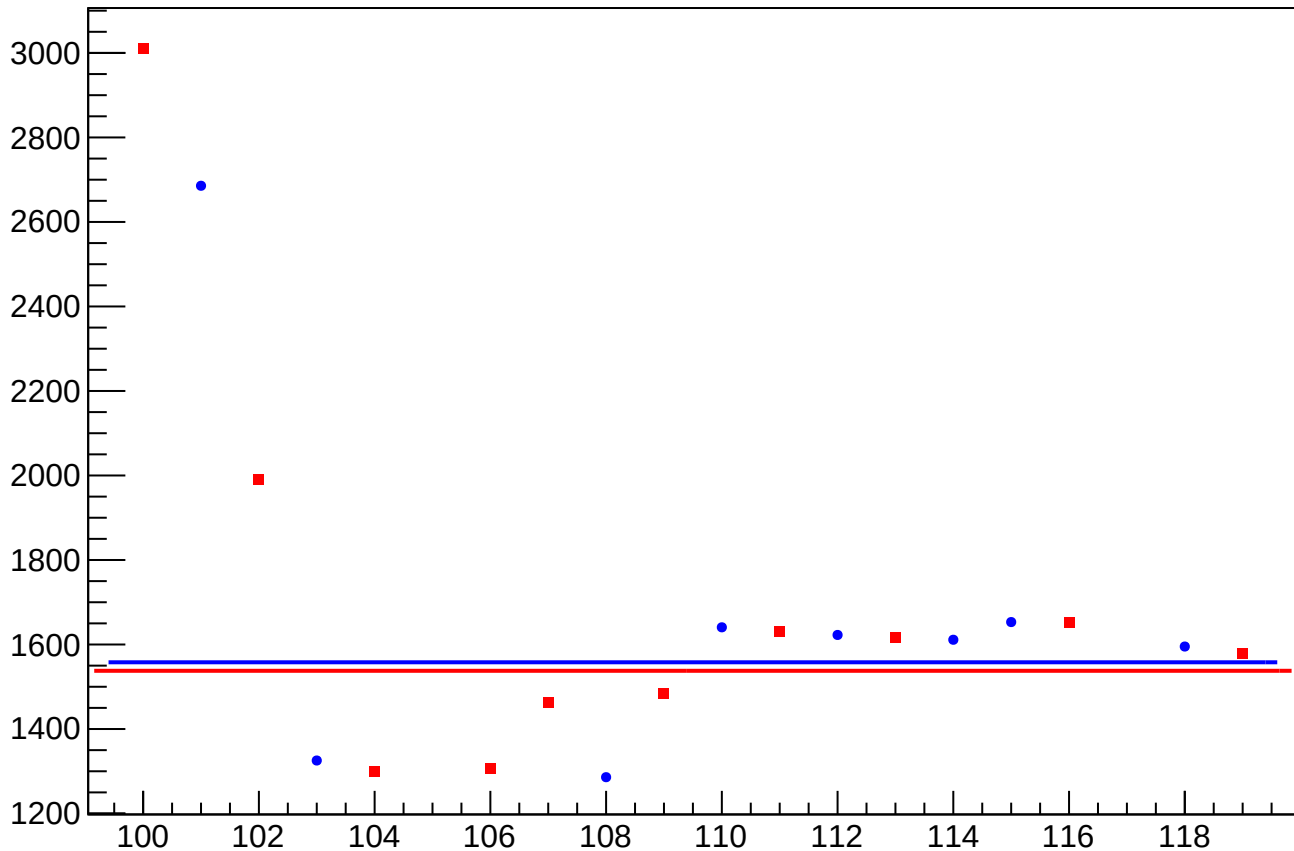
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 914.934 $\pm$ 586.167  $\chi^2$ /NDF: 22.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_at2\_dd\_rms vs Slug



Right In: 1557.918 $\pm$ 0.621  $\chi^2$ /NDF: 306978.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1537.783 $\pm$ 0.557  $\chi^2$ /NDF: 147872.7/9

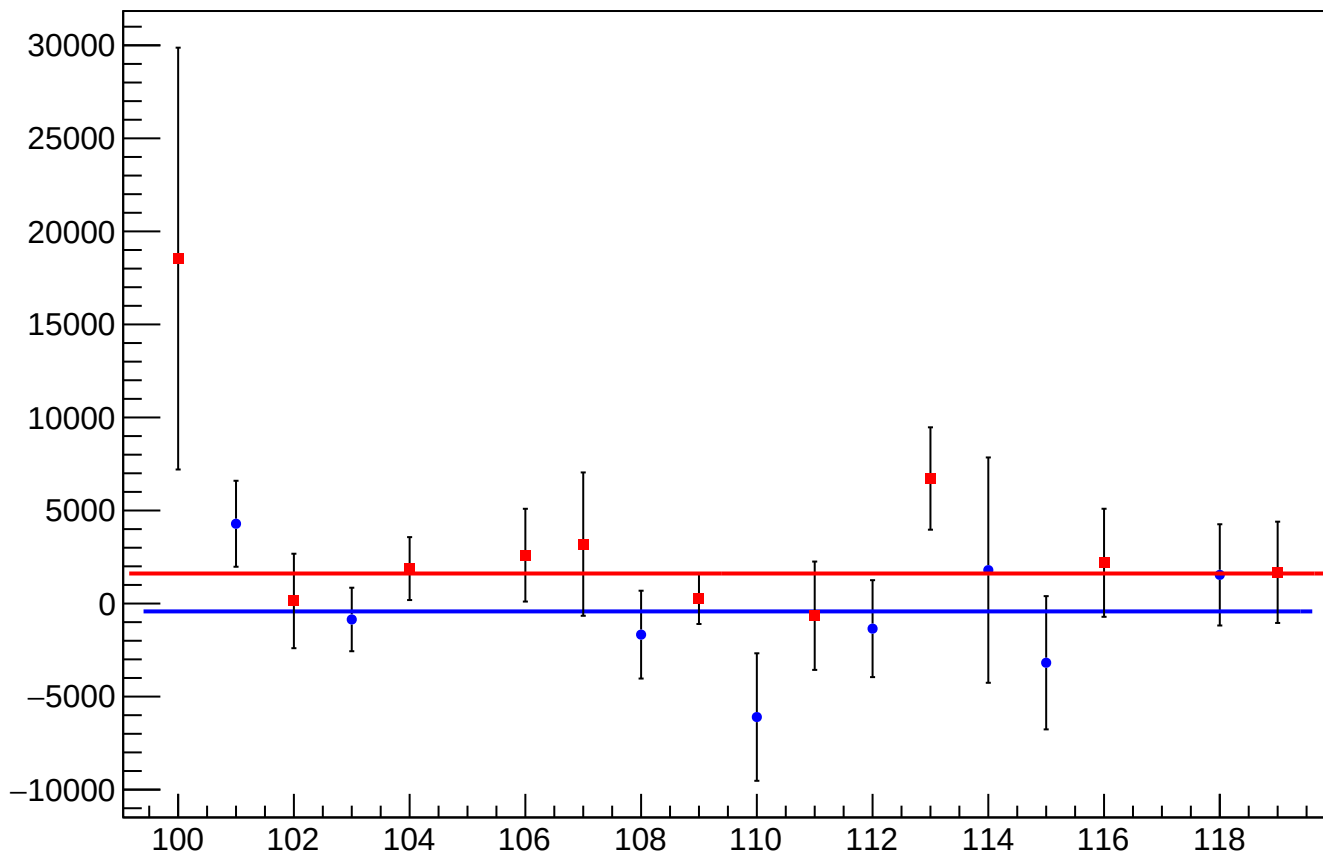
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1546.761 $\pm$ 0.414  $\chi^2$ /NDF: 455434.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -422.524+/-919.305  $\chi^2/\text{NDF}$ : 8.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1614.458+/-747.071  $\chi^2/\text{NDF}$ : 8.0/9

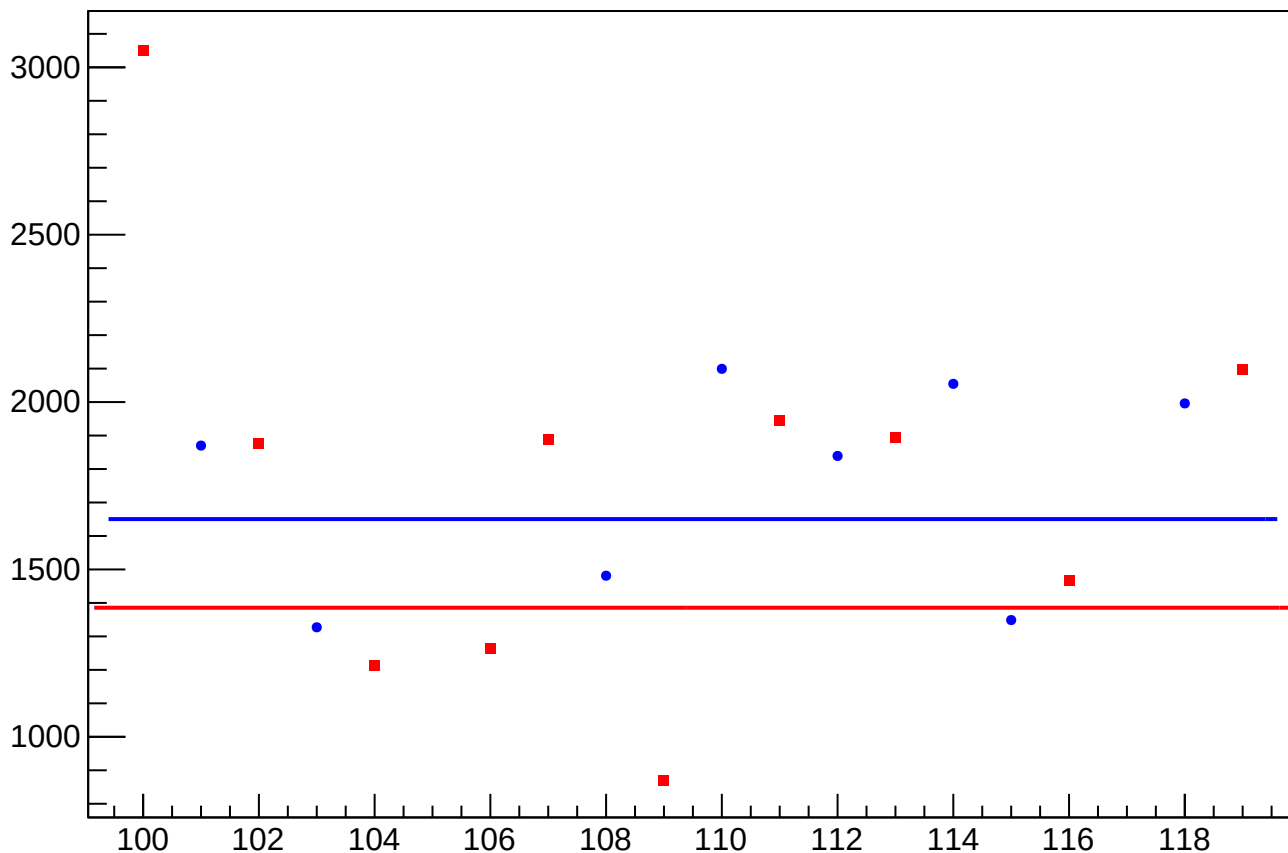
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 804.282+/-579.770  $\chi^2/\text{NDF}$ : 19.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1650.436 $\pm$ 0.650  $\chi^2$ /NDF: 200279.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1385.681 $\pm$ 0.528  $\chi^2$ /NDF: 748914.0/9

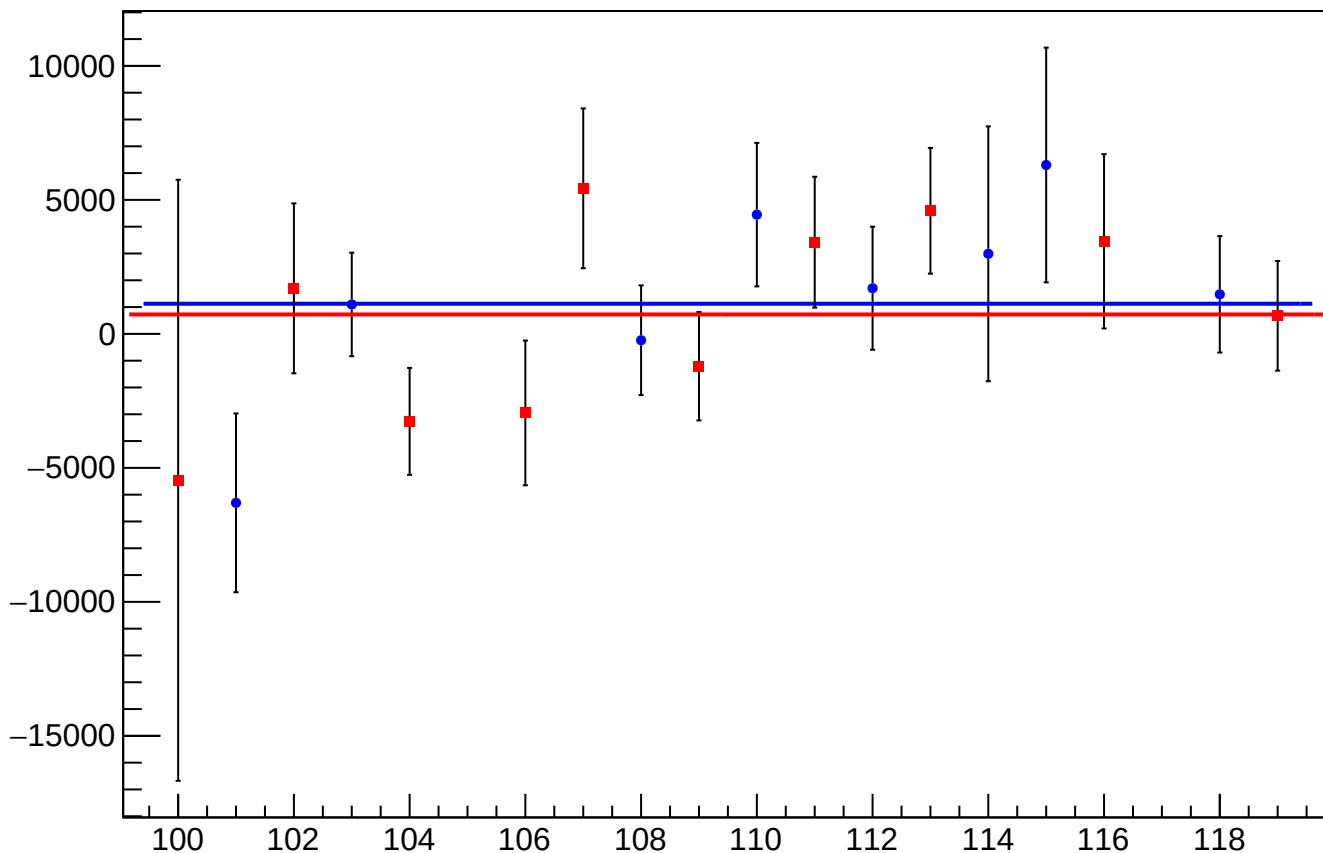
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1490.983 $\pm$ 0.410  $\chi^2$ /NDF: 1049097.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_at2\_dd\_mean vs Slug



Right In: 1124.981 $\pm$ 900.296  $\chi^2$ /NDF: 8.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 724.495 $\pm$ 807.113  $\chi^2$ /NDF: 14.3/9

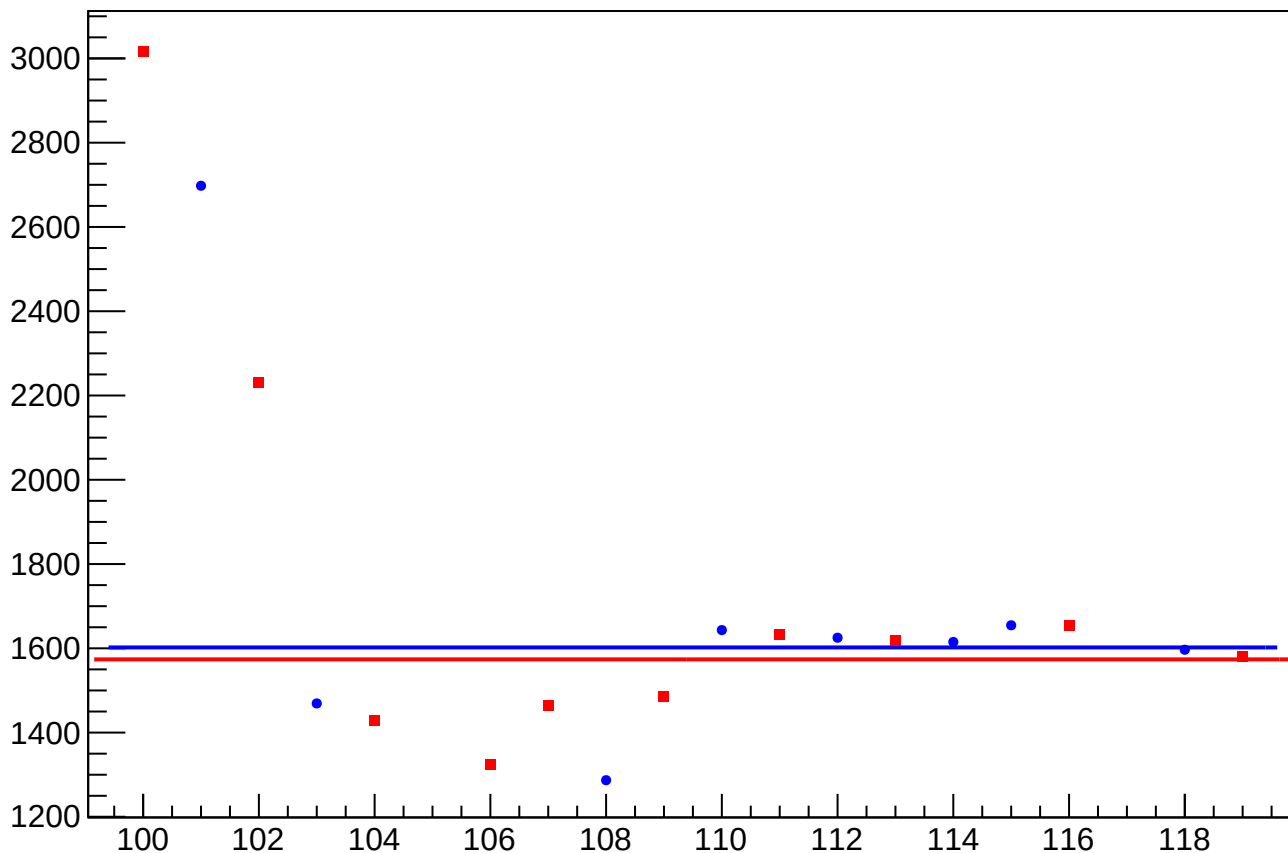
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 902.946 $\pm$ 600.968  $\chi^2$ /NDF: 23.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_at2\_dd\_rms vs Slug



Right In: 1602.091+/-0.637  $\chi^2/\text{NDF}$ : 273635.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1573.769+/-0.571  $\chi^2/\text{NDF}$ : 155767.1/9

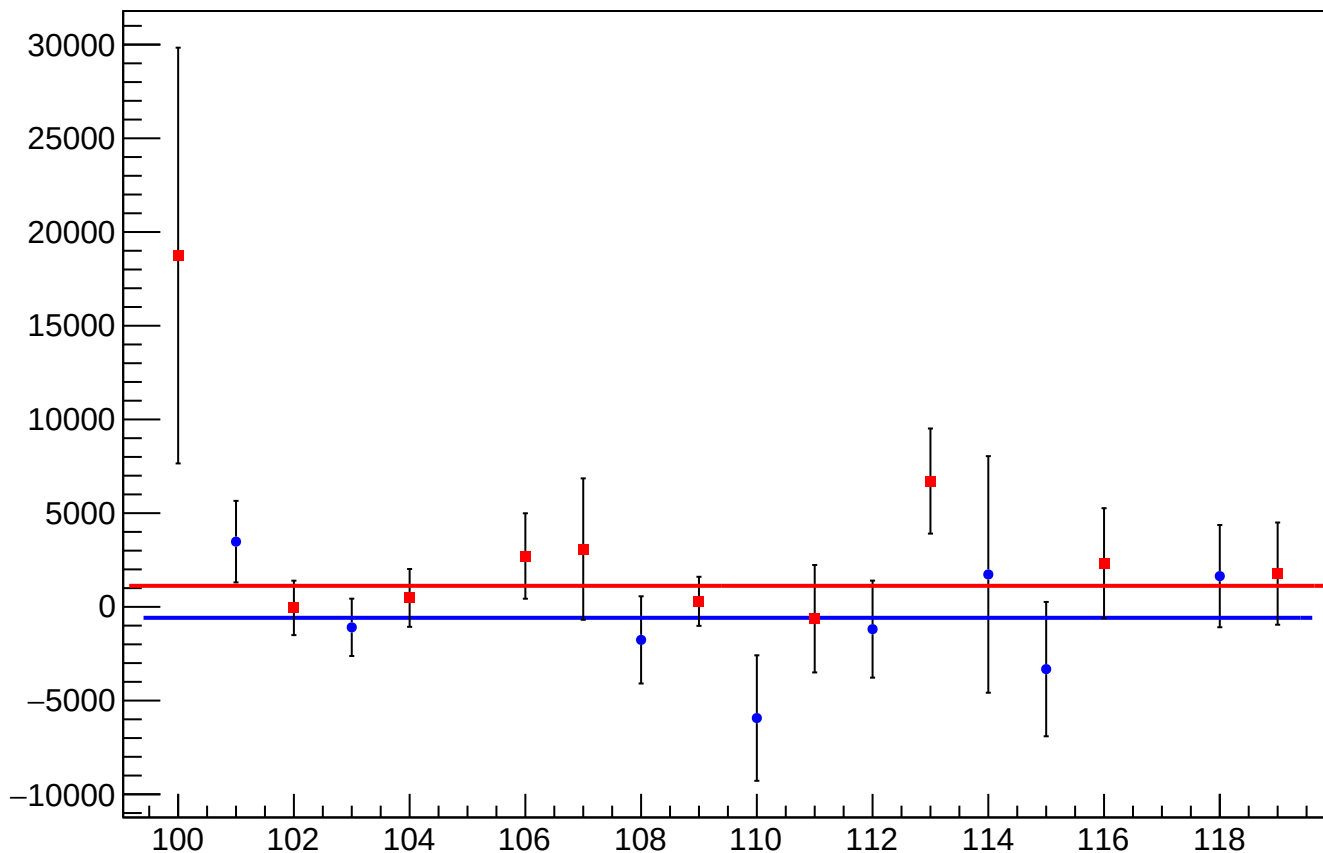
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1586.389+/-0.425  $\chi^2/\text{NDF}$ : 430500.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_dit\_correction\_mean vs Slug



Right In: -583.732+/-877.318  $\chi^2/\text{NDF}$ : 7.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1122.779+/-666.837  $\chi^2/\text{NDF}$ : 9.1/9

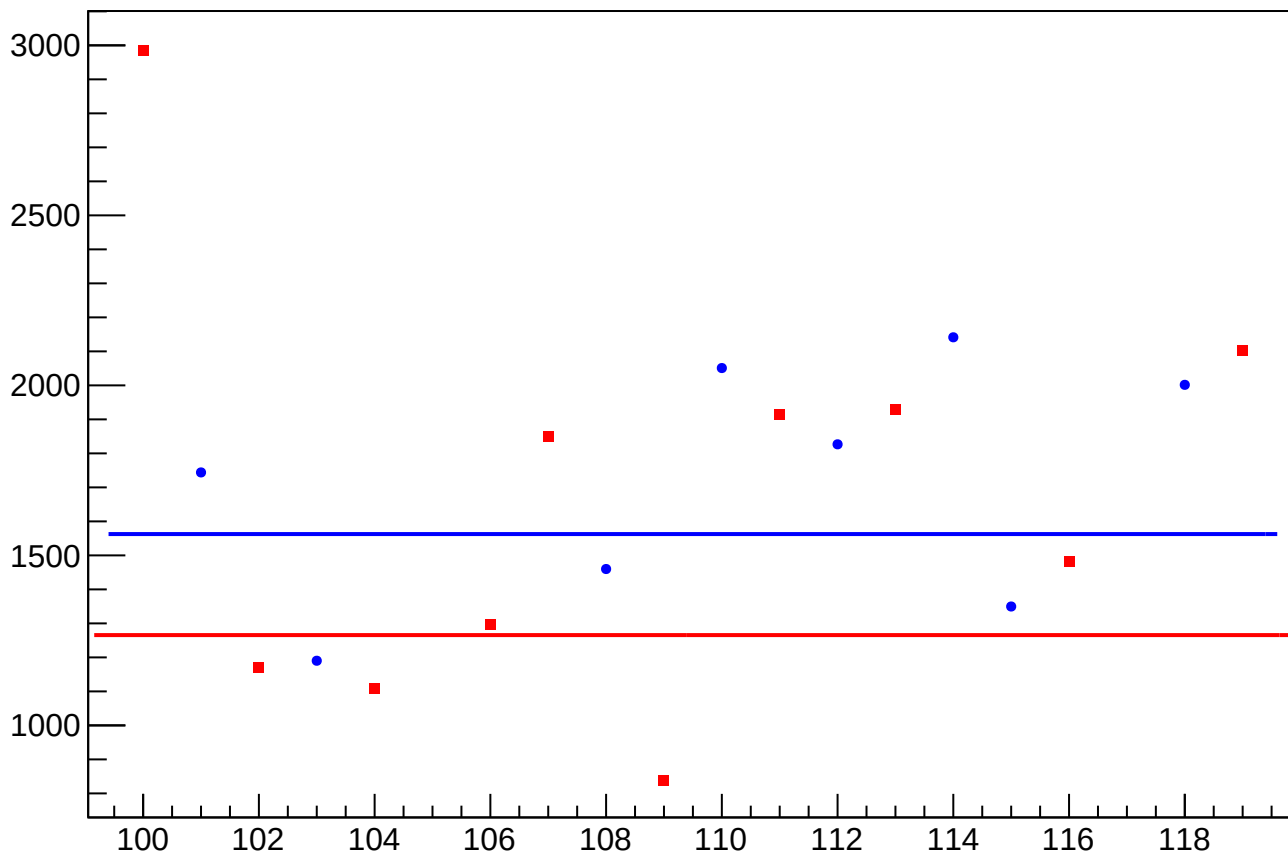
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 497.892+/-530.889  $\chi^2/\text{NDF}$ : 19.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_dit\_correction\_rms vs Slug



Right In: 1562.700+/-0.620  $\chi^2/\text{NDF}$ : 275390.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1265.590+/-0.472  $\chi^2/\text{NDF}$ : 753039.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

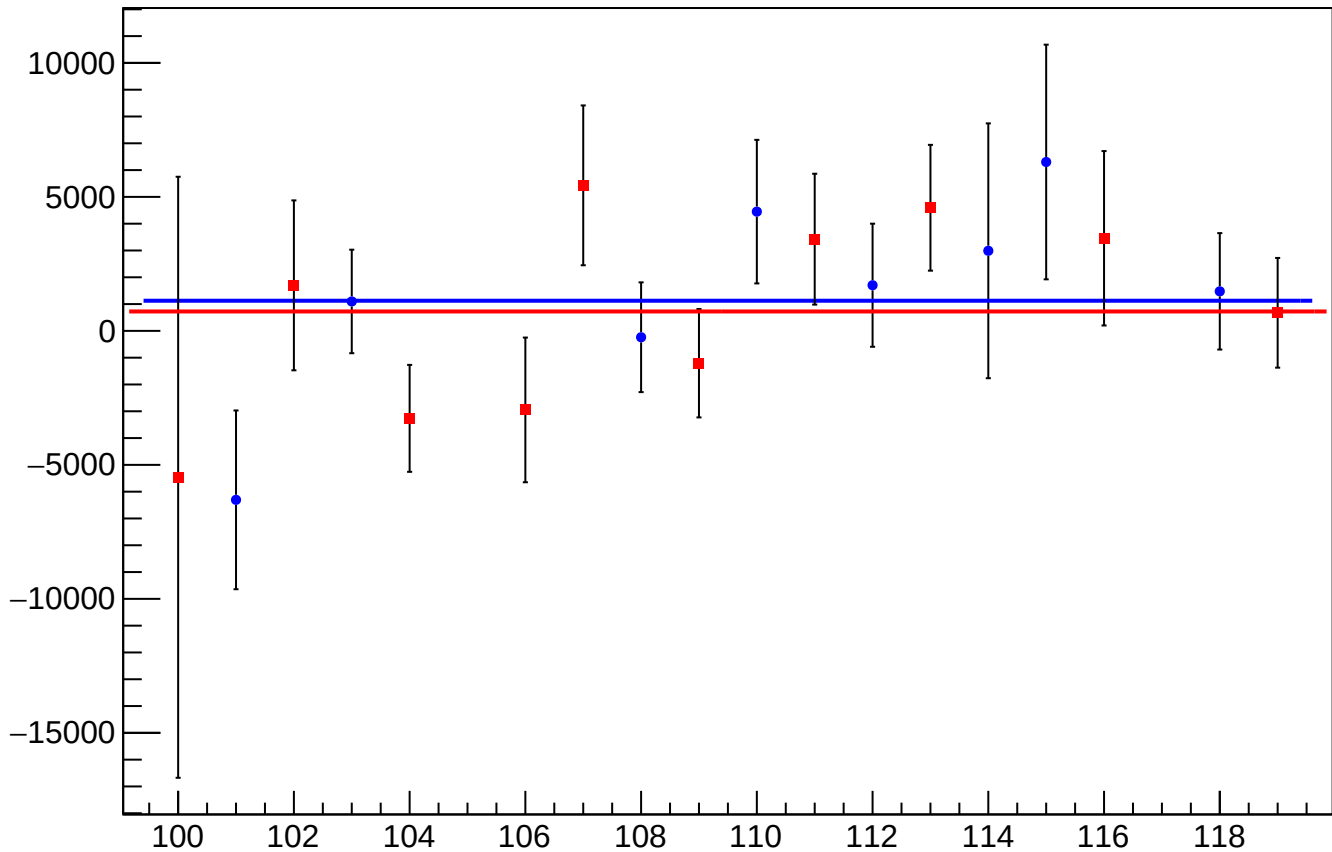
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1374.385+/-0.375  $\chi^2/\text{NDF}$ : 1173814.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_at2\_dd\_mean vs Slug



Right In: 1124.973 $\pm$ 900.296  $\chi^2$ /NDF: 8.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 724.496 $\pm$ 807.113  $\chi^2$ /NDF: 14.3/9

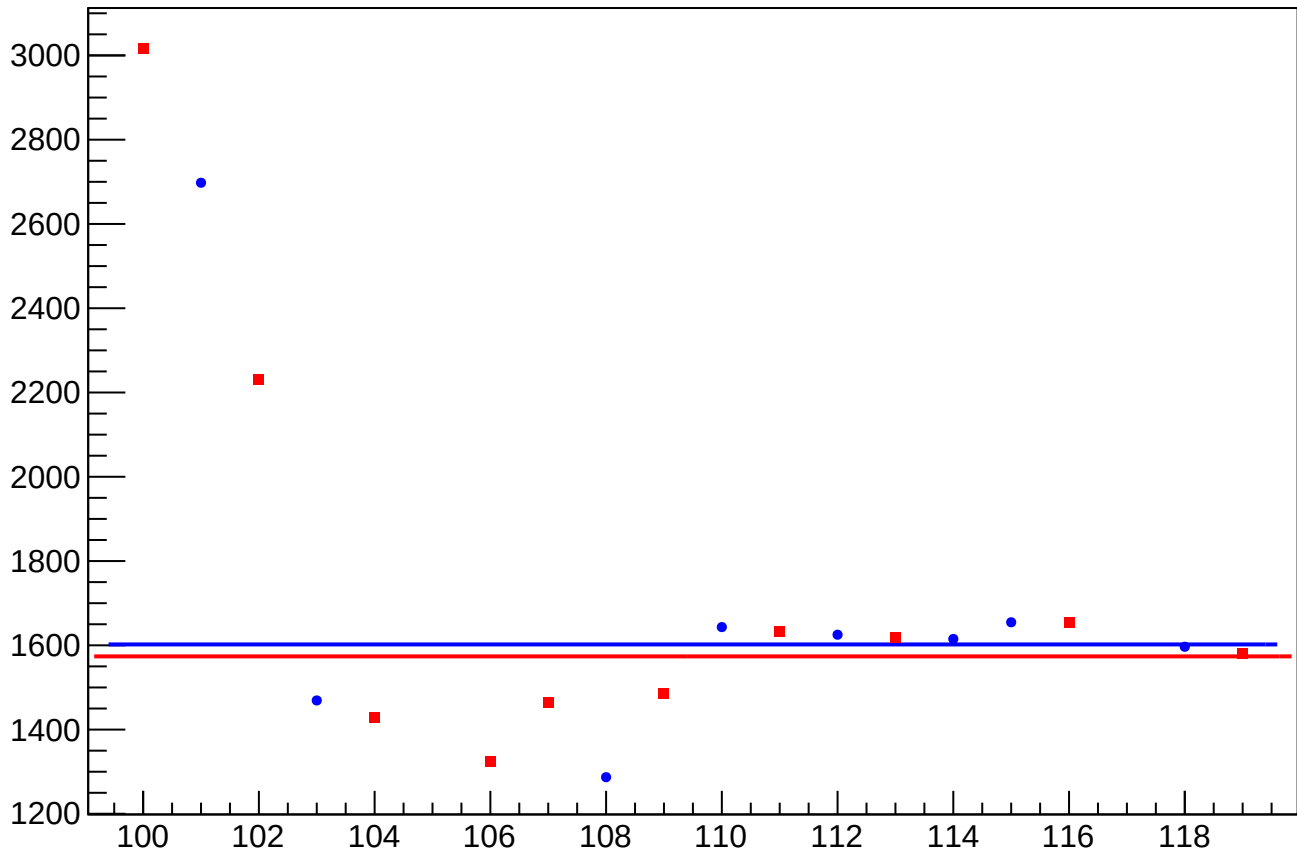
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 902.943 $\pm$ 600.968  $\chi^2$ /NDF: 23.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_at2\_dd\_rms vs Slug



Right In: 1602.091+/-0.637  $\chi^2/\text{NDF}$ : 273635.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1573.769+/-0.571  $\chi^2/\text{NDF}$ : 155767.1/9

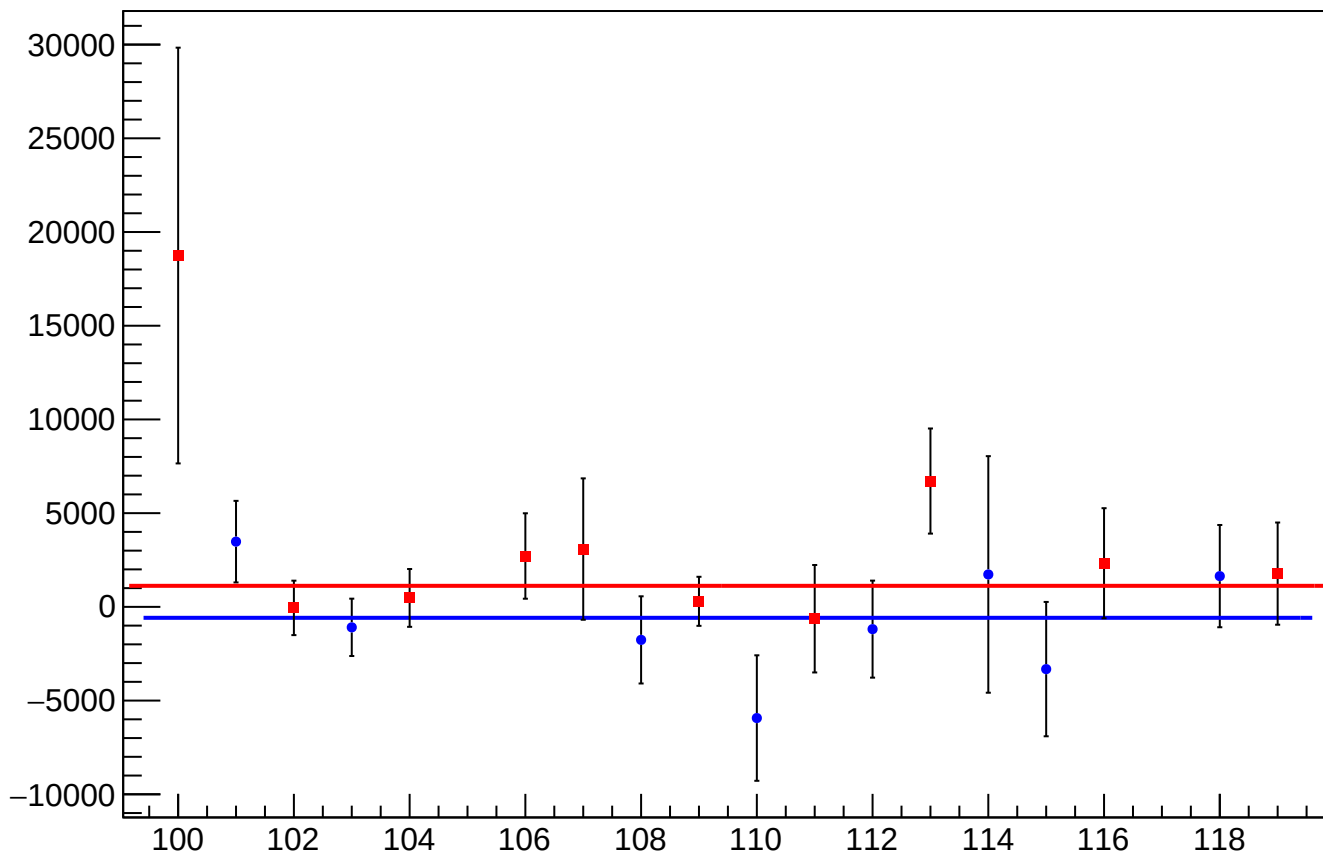
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1586.389+/-0.425  $\chi^2/\text{NDF}$ : 430500.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -583.733+/-877.317  $\chi^2$ /NDF: 7.8/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1122.783+/-666.839  $\chi^2$ /NDF: 9.1/9

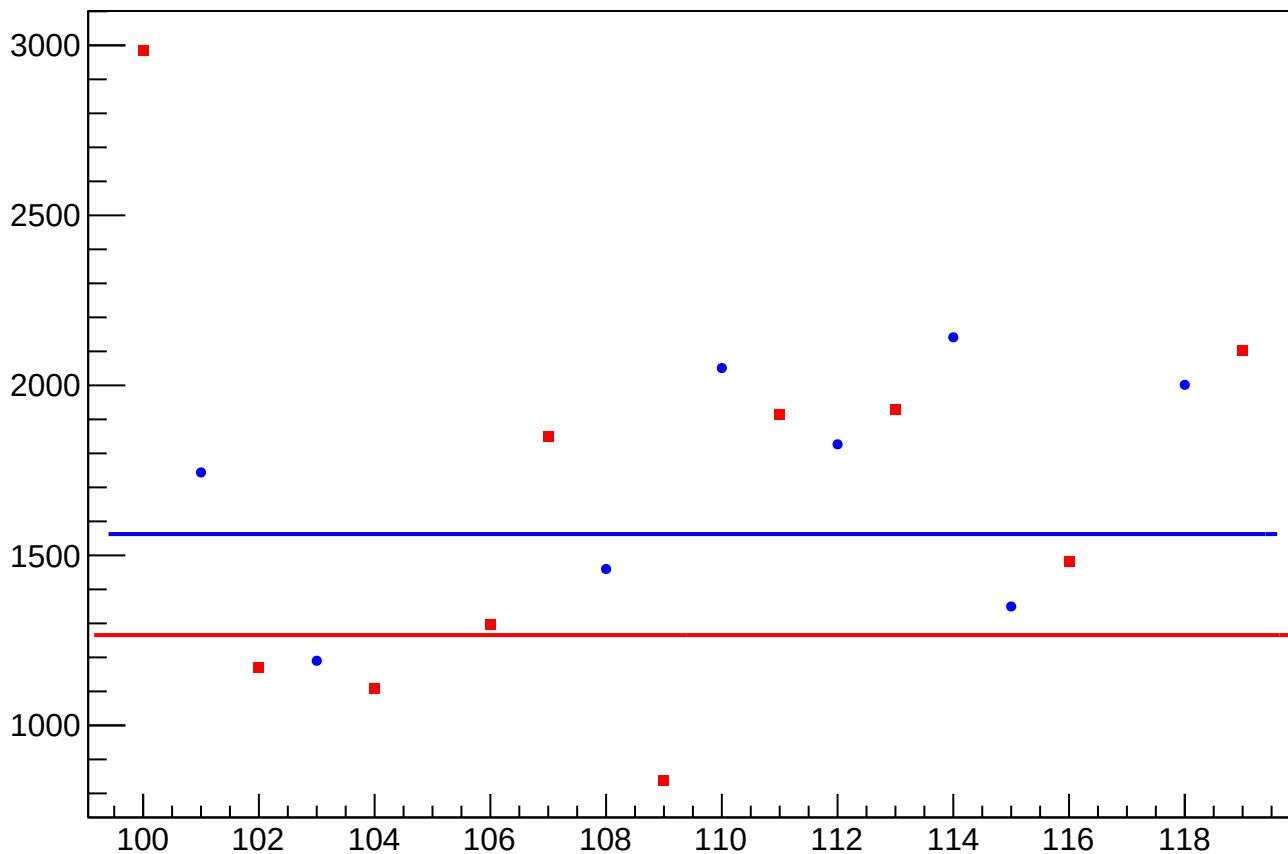
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 497.890+/-530.889  $\chi^2$ /NDF: 19.3/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1562.698+/-0.620  $\chi^2/\text{NDF}$ : 275386.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1265.596+/-0.472  $\chi^2/\text{NDF}$ : 753021.8/9

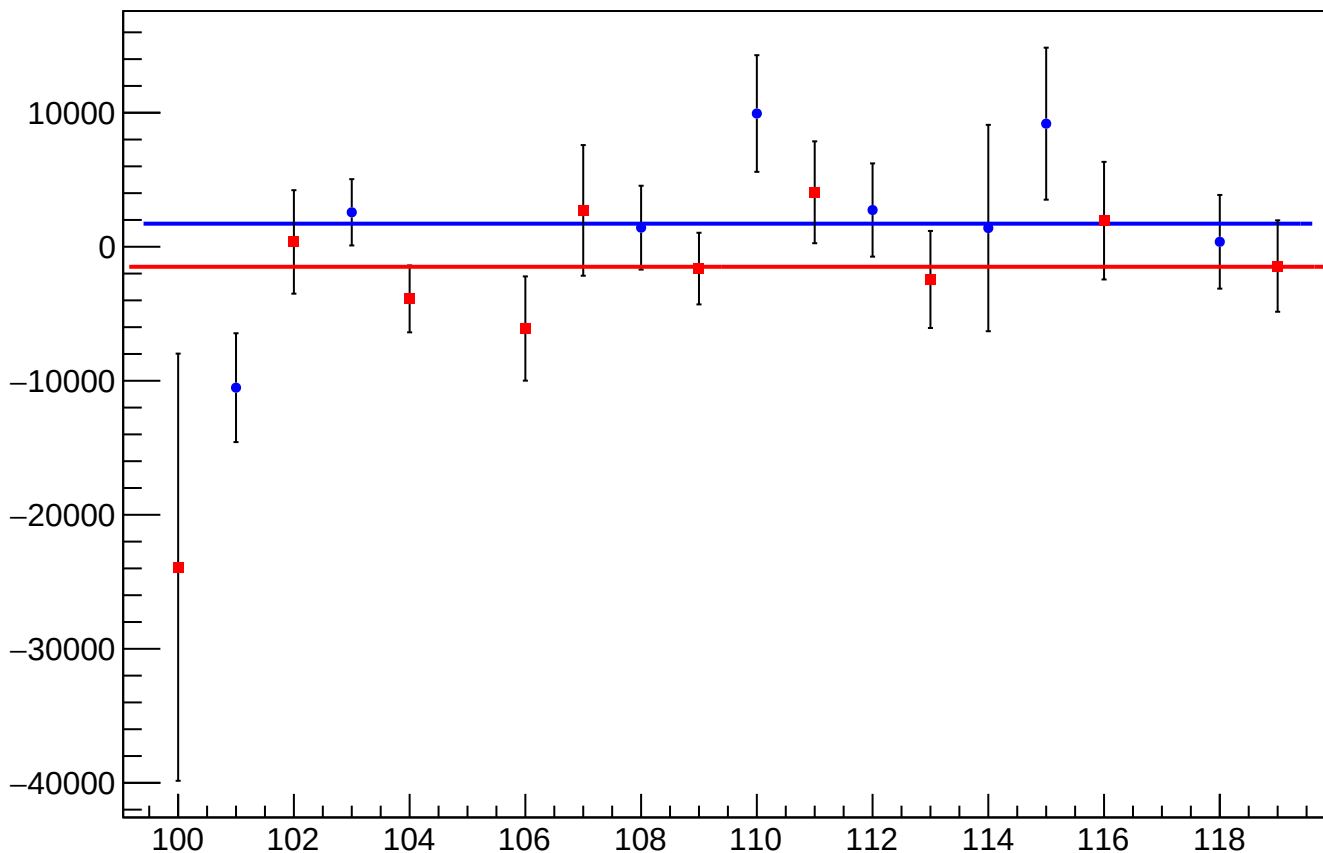
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1374.389+/-0.375  $\chi^2/\text{NDF}$ : 1173785.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_mean vs Slug



Right In: 1722.458+/-1300.057  $\chi^2/\text{NDF}$ : 14.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1493.121+/-1144.587  $\chi^2/\text{NDF}$ : 8.1/9

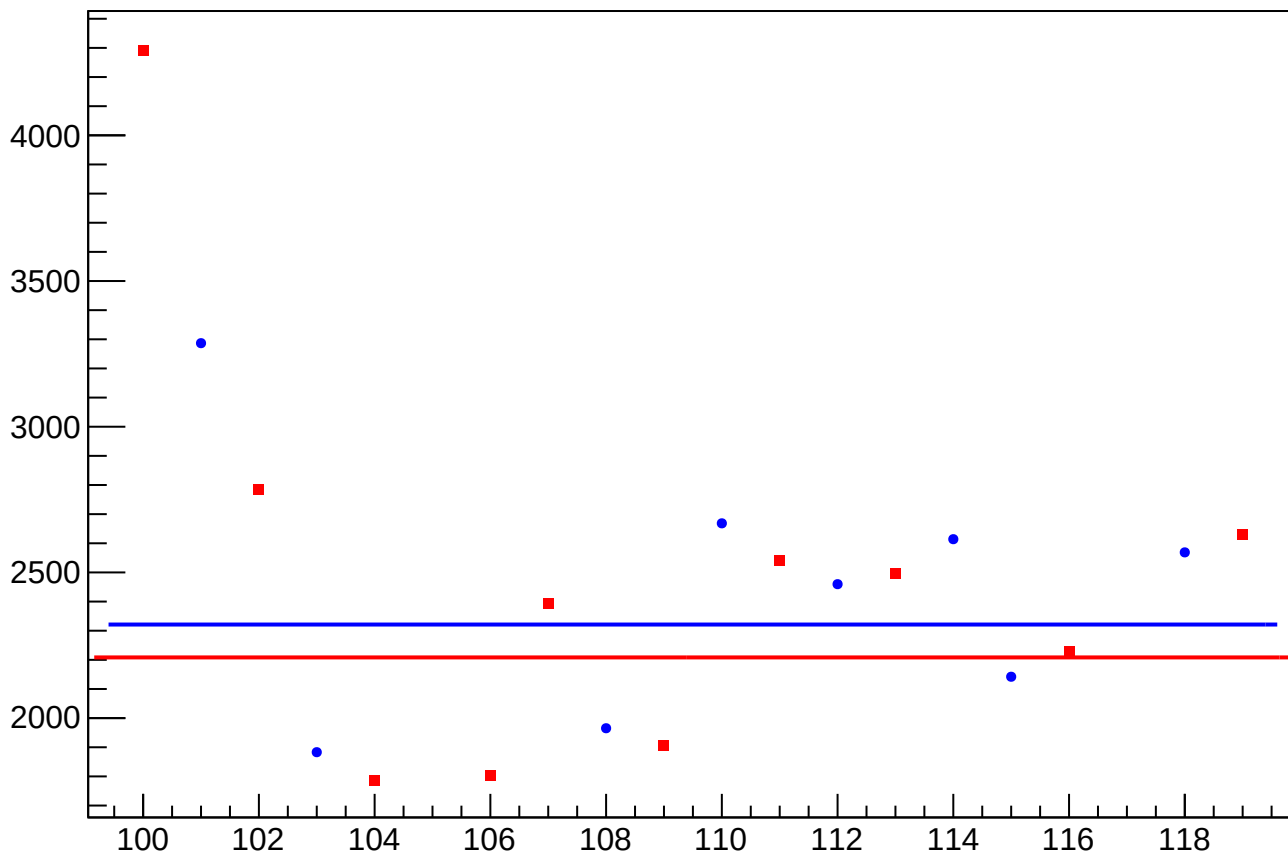
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -89.007+/-859.081  $\chi^2/\text{NDF}$ : 26.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_rms vs Slug



Right In:  $2321.170 \pm 0.919$   $\chi^2/\text{NDF}$ : 232606.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $2208.322 \pm 0.809$   $\chi^2/\text{NDF}$ : 244721.6/9

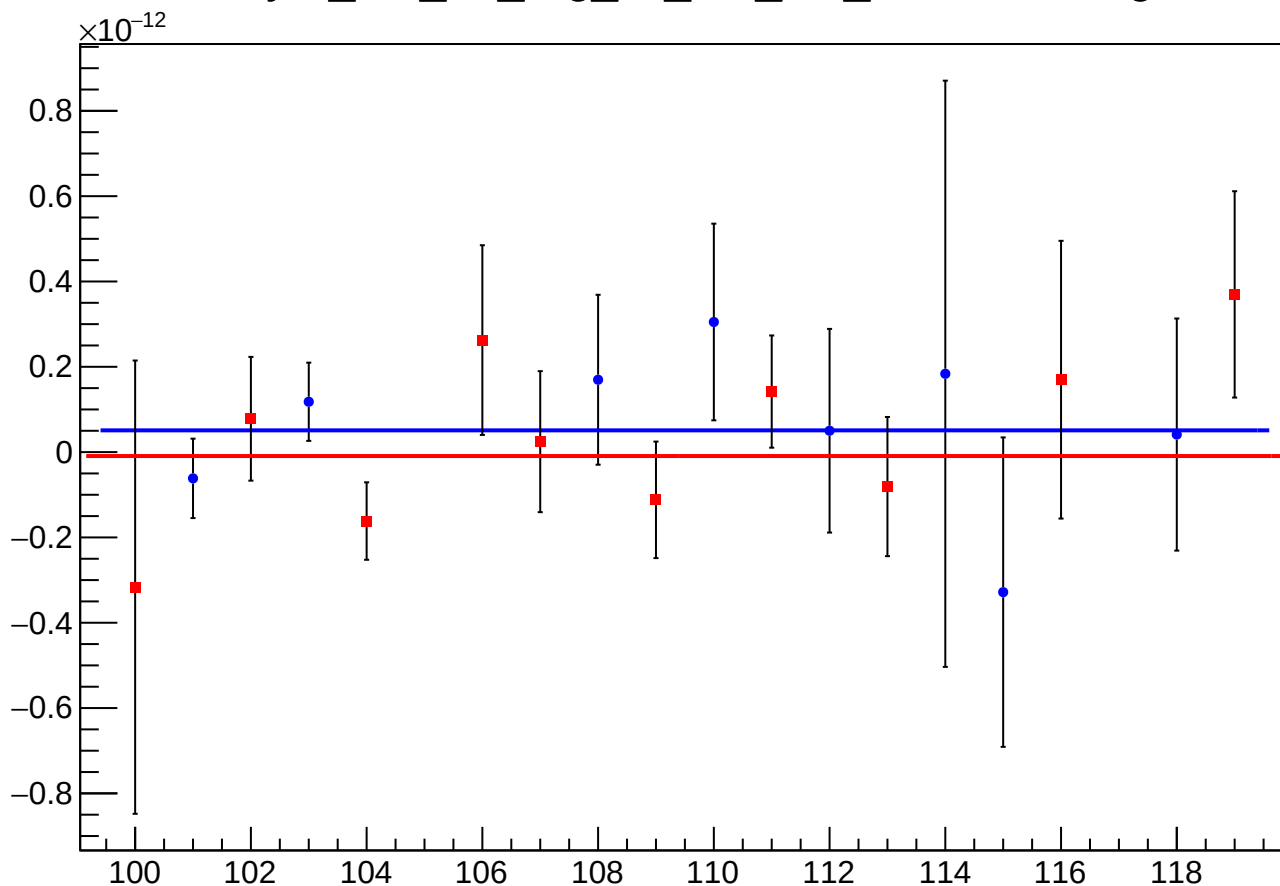
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $2257.598 \pm 0.607$   $\chi^2/\text{NDF}$ : 485817.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.9/9

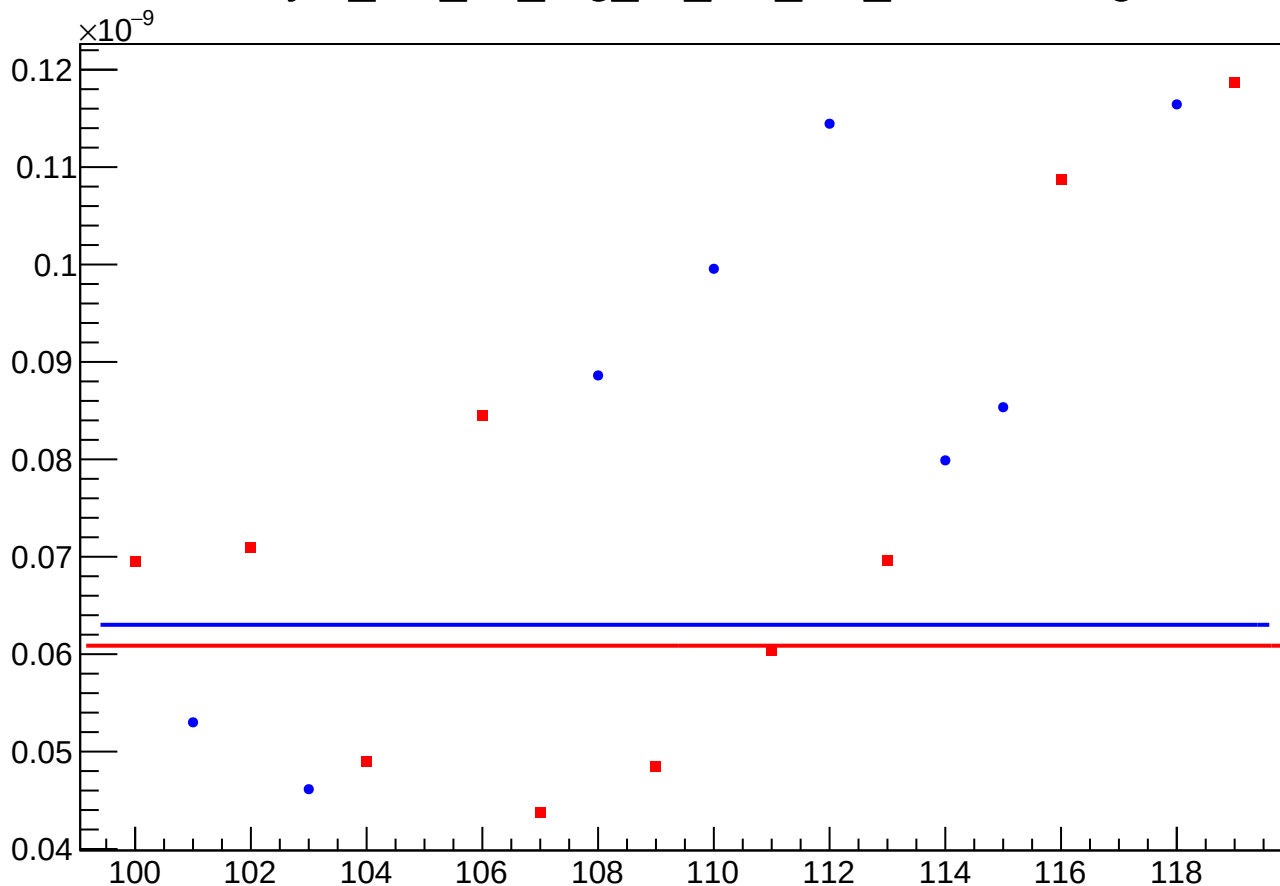
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.2/17

- 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  $\chi^2/\text{NDF}$ : 352988.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 268279.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

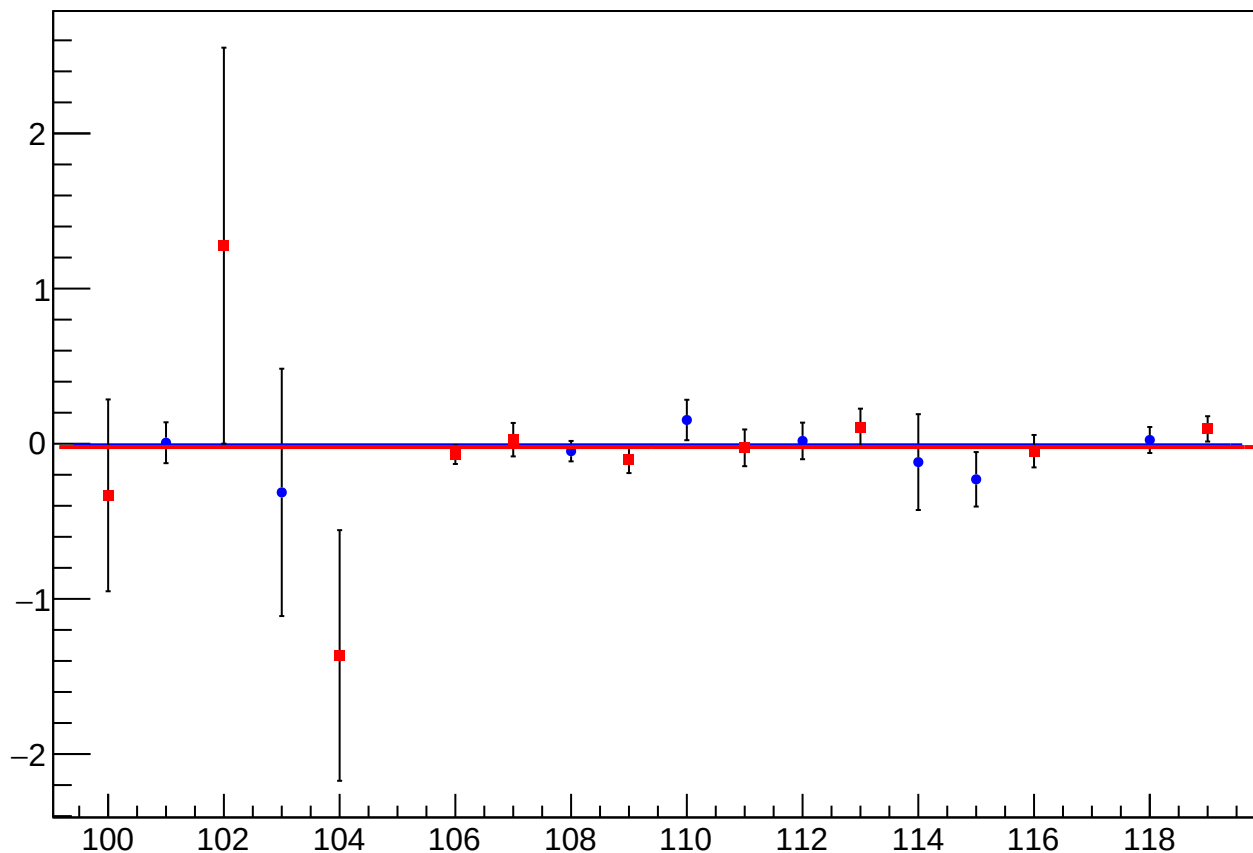
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 622910.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_at2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.010 $\pm$ 0.041  $\chi^2$ /NDF: 4.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.021 $\pm$ 0.034  $\chi^2$ /NDF: 9.0/9

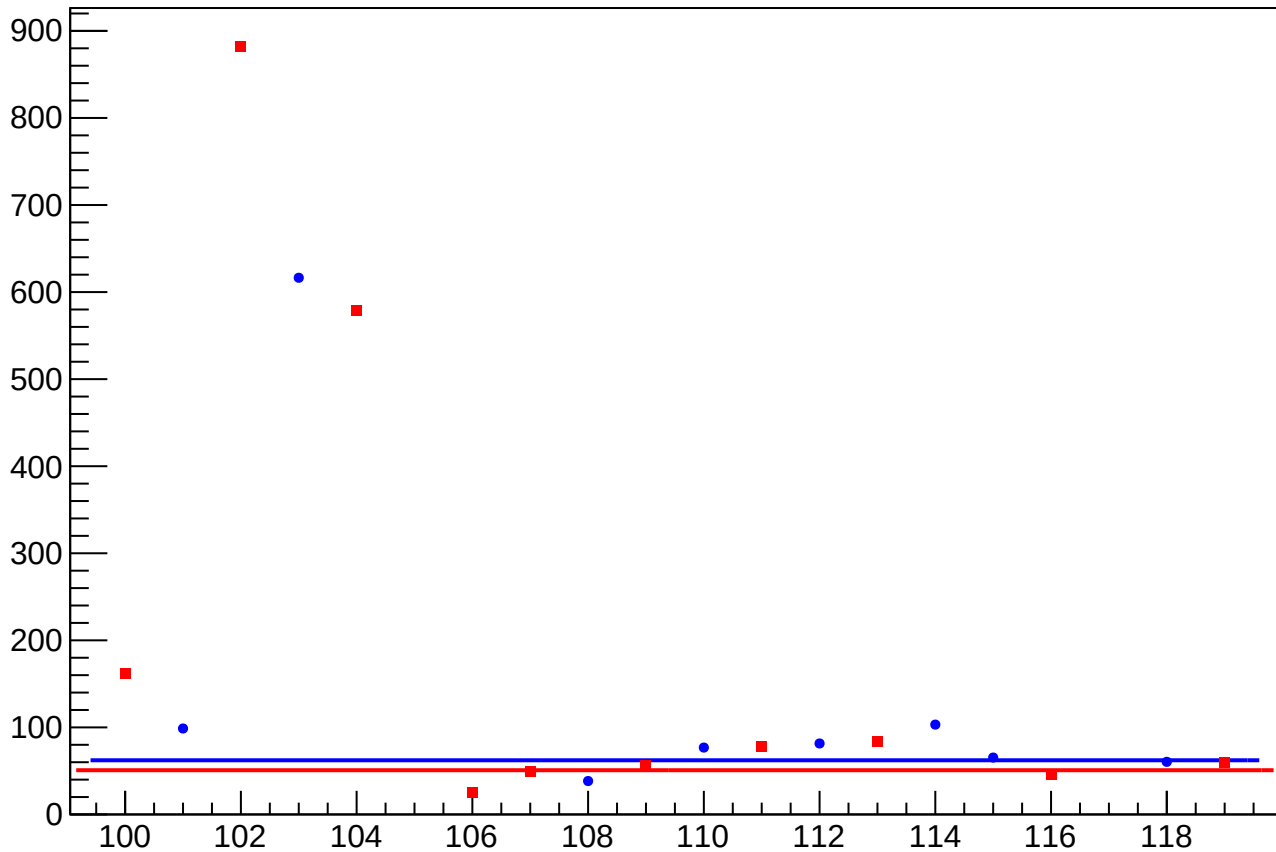
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.026  $\chi^2$ /NDF: 13.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 62.227+/-0.029  $\chi^2/\text{NDF}$ : 1497849.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 50.816+/-0.024  $\chi^2/\text{NDF}$ : 2416020.6/9

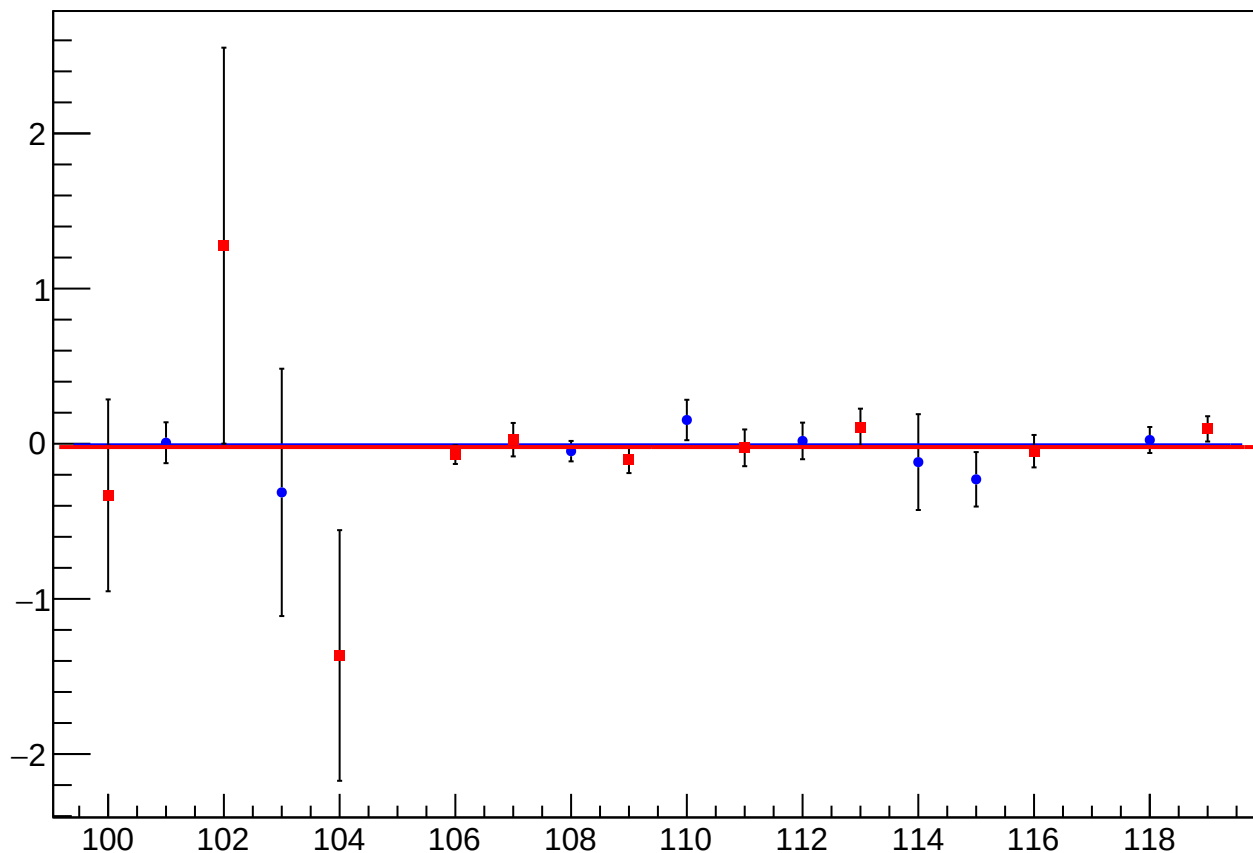
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 55.454+/-0.018  $\chi^2/\text{NDF}$ : 4007547.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.010 $\pm$ 0.041  $\chi^2$ /NDF: 4.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.021 $\pm$ 0.034  $\chi^2$ /NDF: 9.0/9

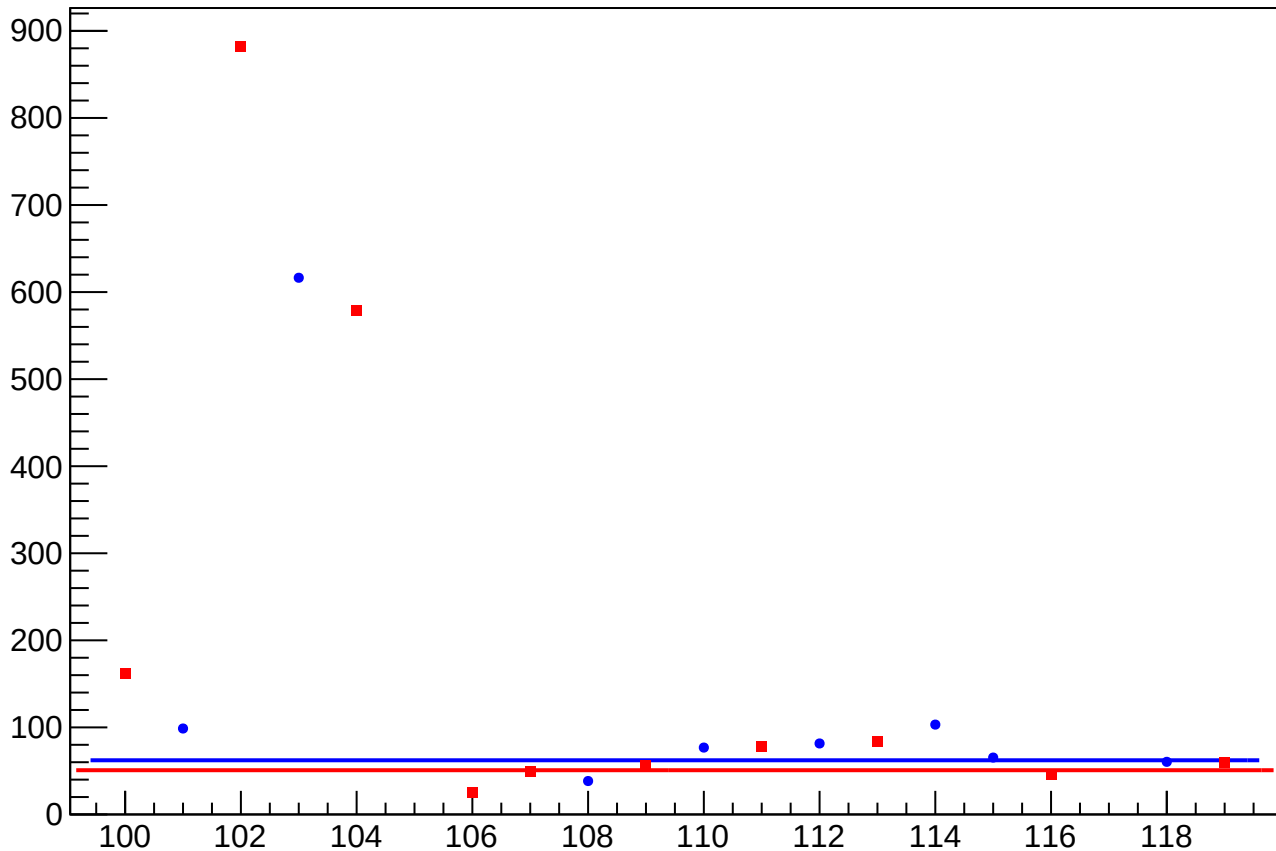
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.026  $\chi^2$ /NDF: 13.0/17

- 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: 62.227+/-0.029  $\chi^2/\text{NDF}$ : 1497849.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 50.816+/-0.024  $\chi^2/\text{NDF}$ : 2416020.6/9

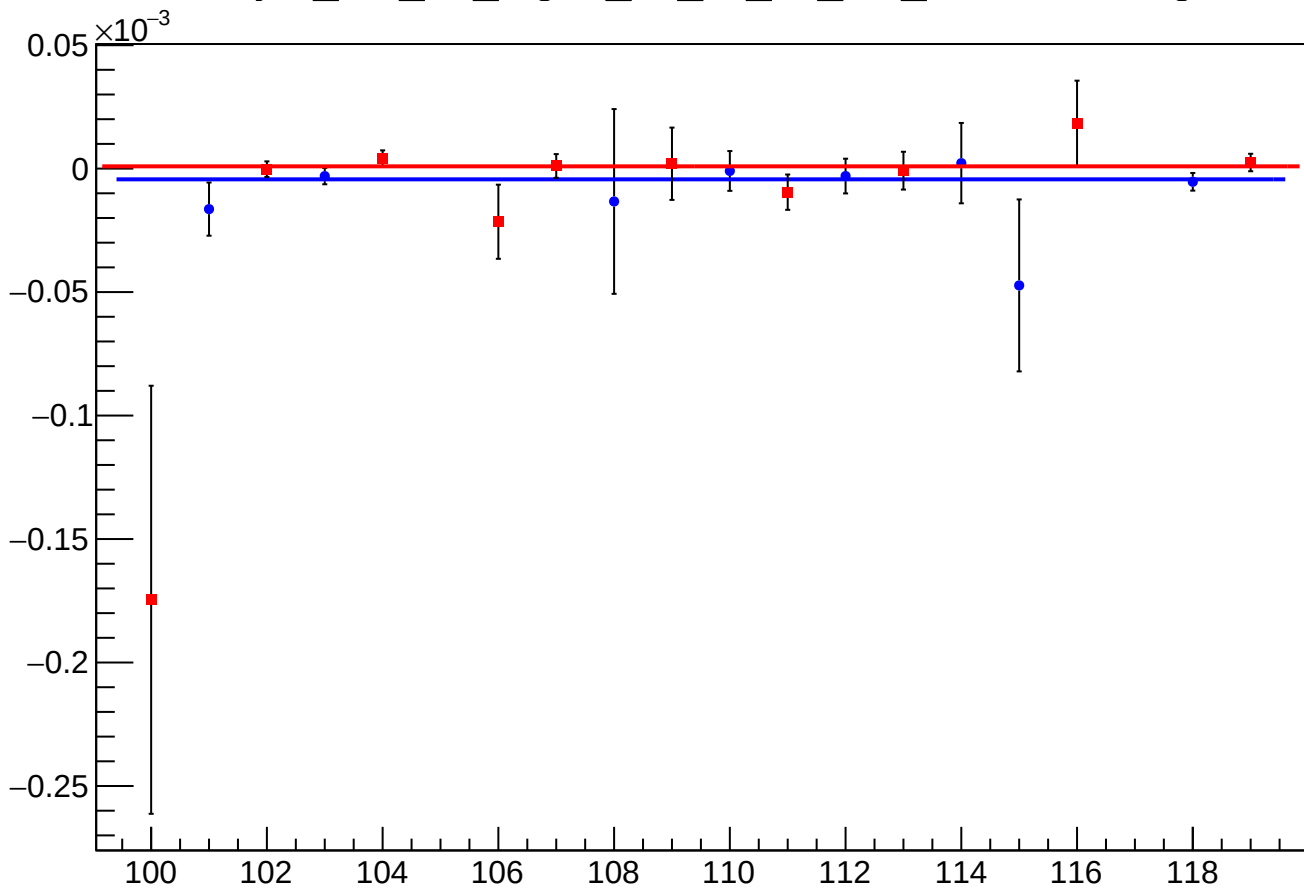
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 55.454+/-0.018  $\chi^2/\text{NDF}$ : 4007547.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.7/9

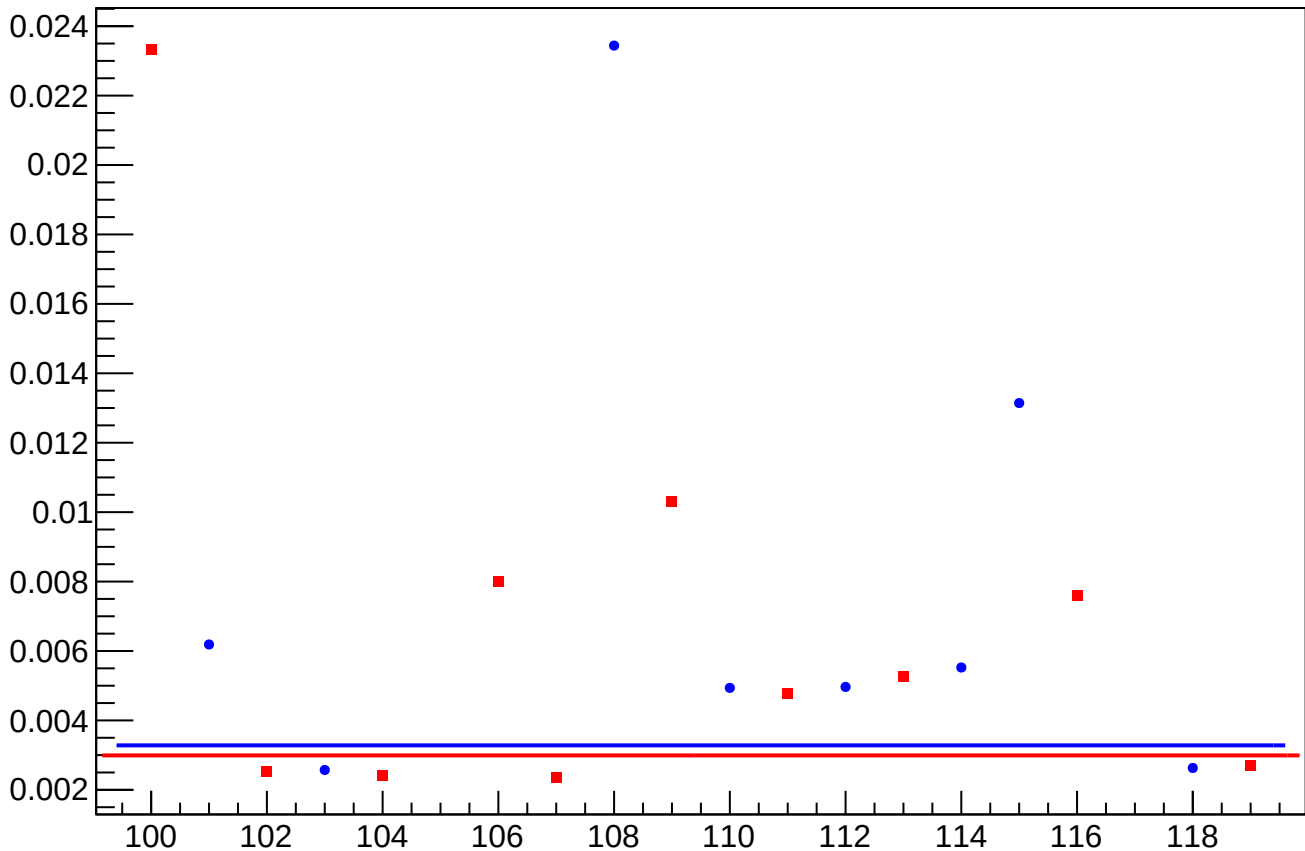
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 18.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1282526.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1427840.9/9

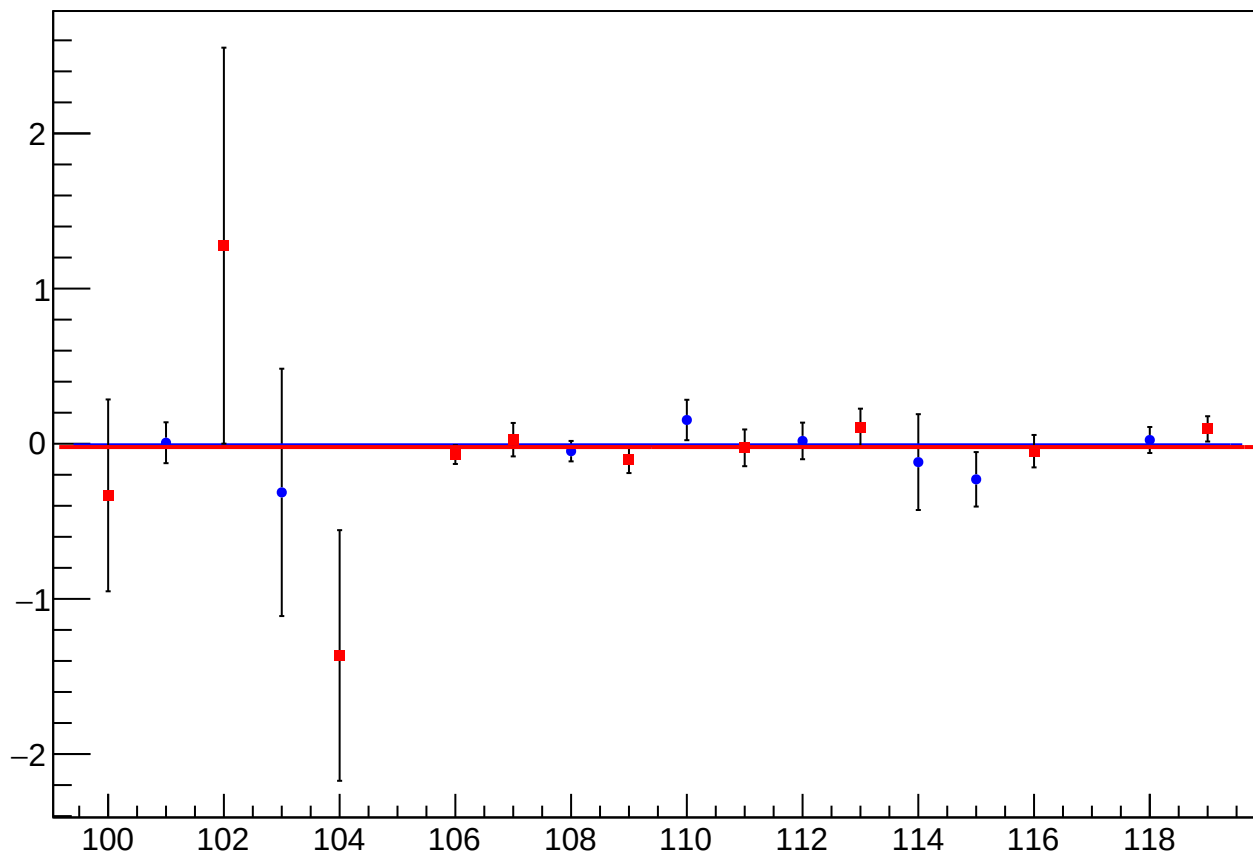
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2733312.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.010 $\pm$ 0.041  $\chi^2$ /NDF: 4.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.021 $\pm$ 0.034  $\chi^2$ /NDF: 9.0/9

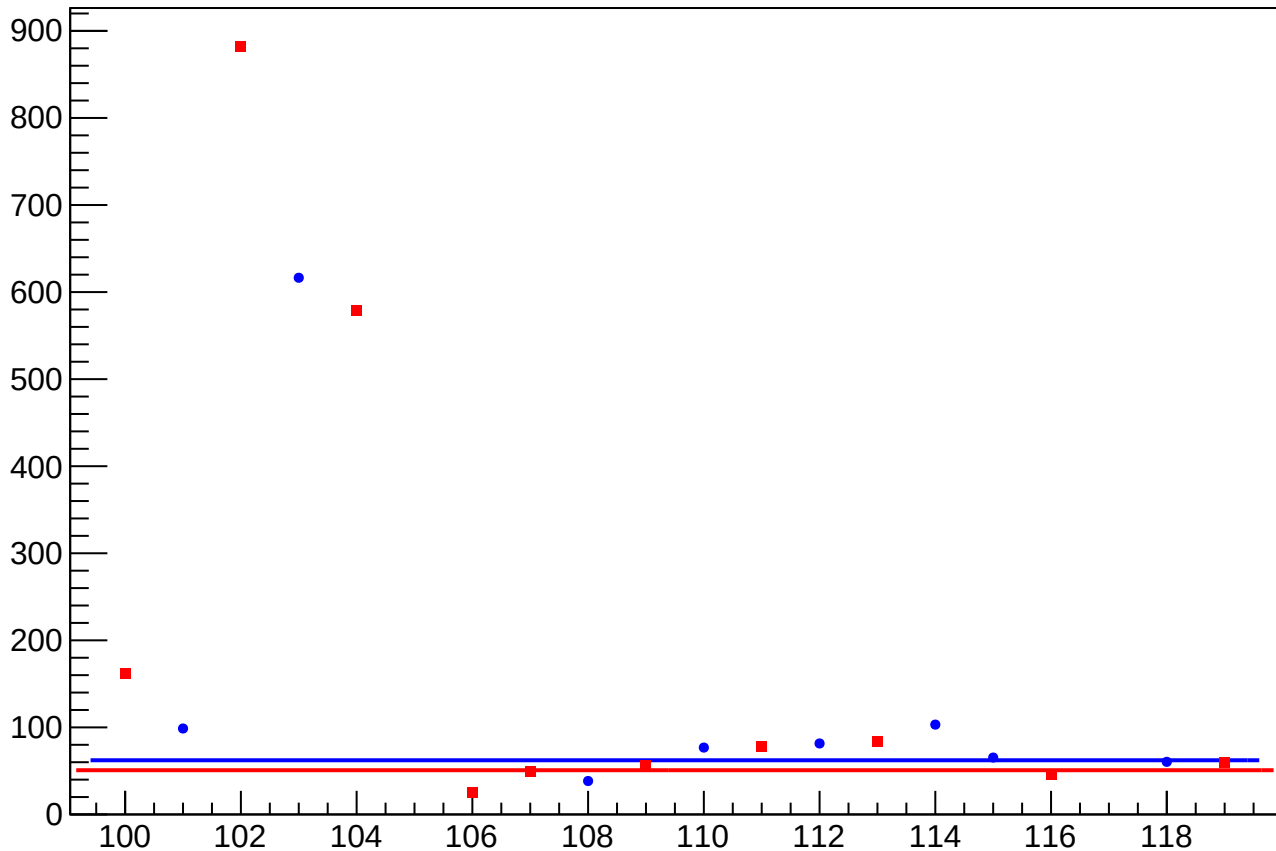
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.026  $\chi^2$ /NDF: 13.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 62.242 $\pm$ 0.029  $\chi^2$ /NDF: 1497254.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 50.809 $\pm$ 0.024  $\chi^2$ /NDF: 2416441.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

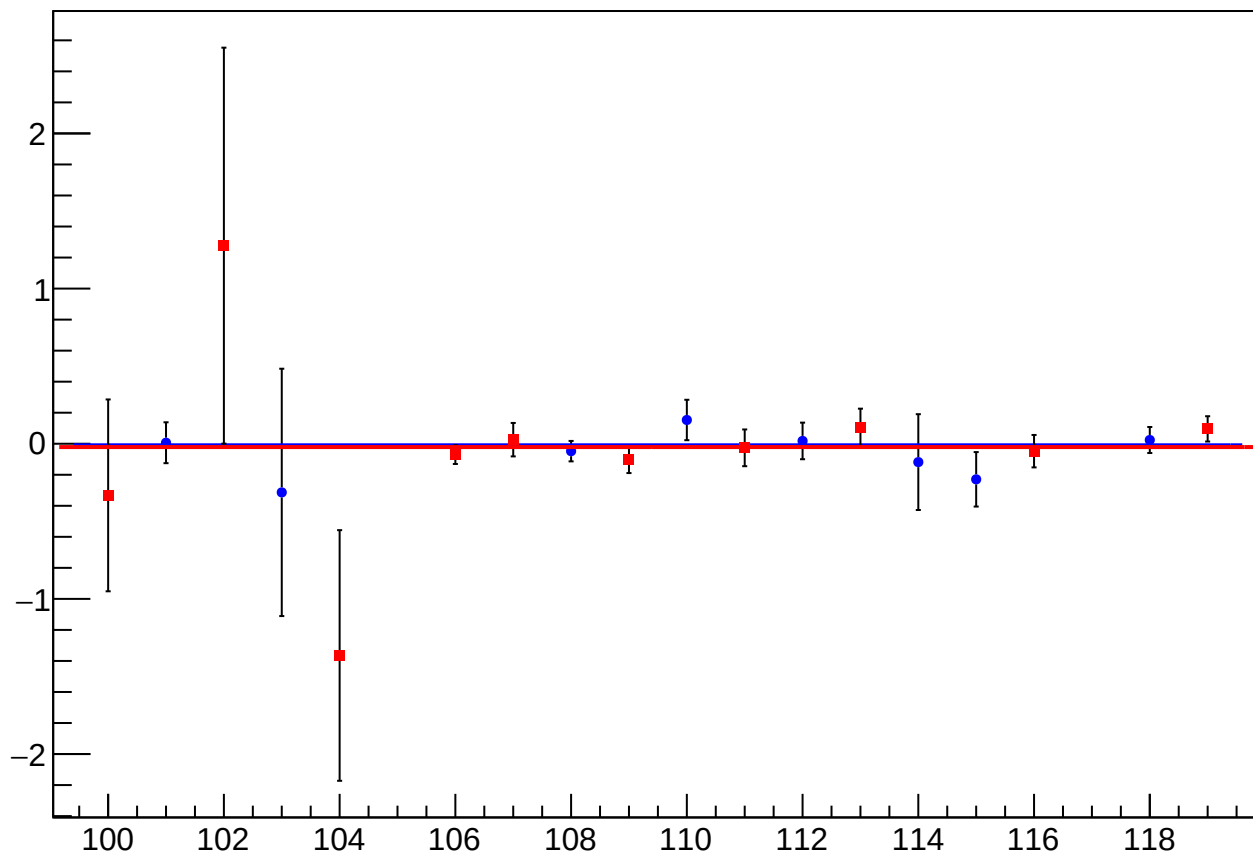
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 55.455 $\pm$ 0.018  $\chi^2$ /NDF: 4007709.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_at2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.010 $\pm$ 0.041  $\chi^2$ /NDF: 4.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.021 $\pm$ 0.034  $\chi^2$ /NDF: 9.0/9

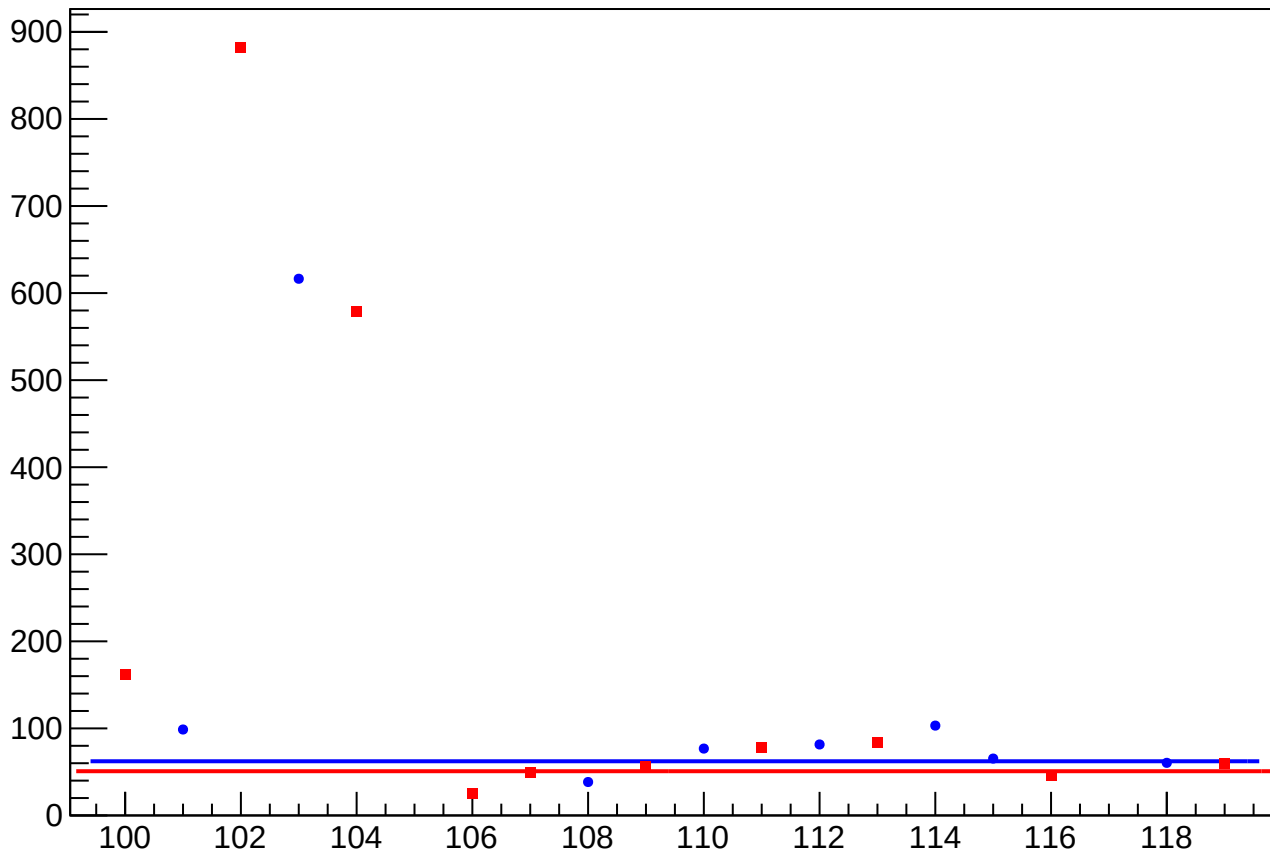
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.026  $\chi^2$ /NDF: 13.0/17

- 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: 62.242 $\pm$ 0.029  $\chi^2$ /NDF: 1497254.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 50.809 $\pm$ 0.024  $\chi^2$ /NDF: 2416441.1/9

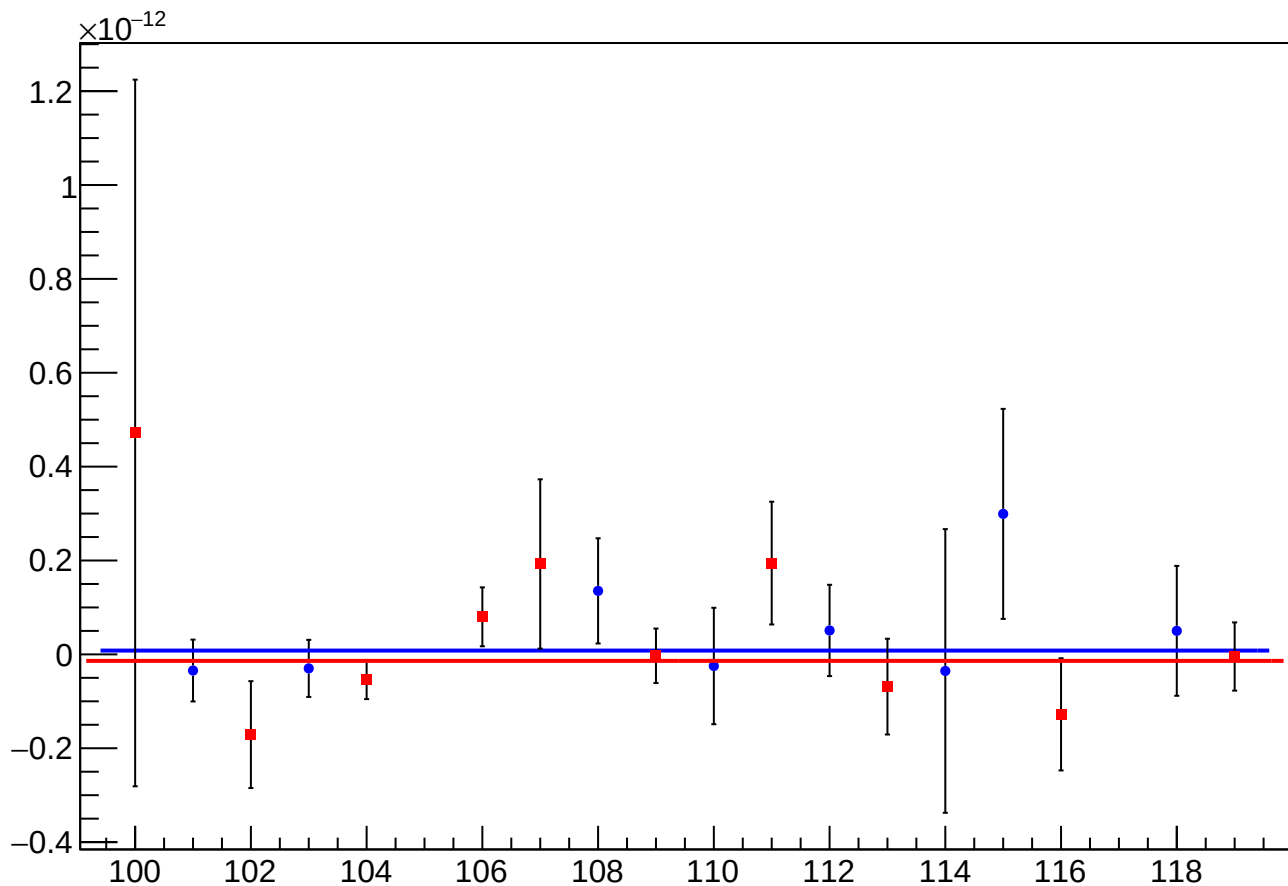
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 55.455 $\pm$ 0.018  $\chi^2$ /NDF: 4007709.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 4.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 10.6/9

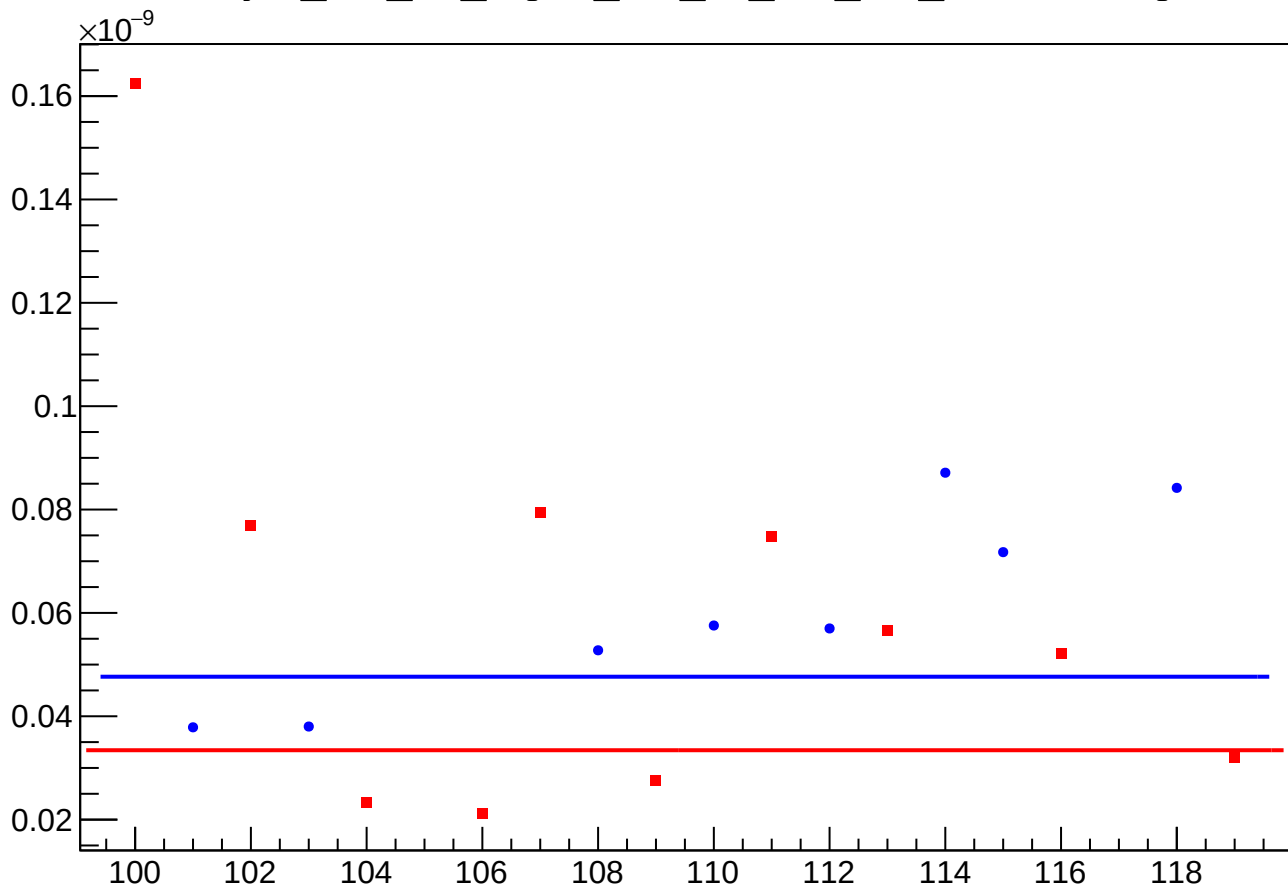
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 15.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 326612.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1049952.6/9

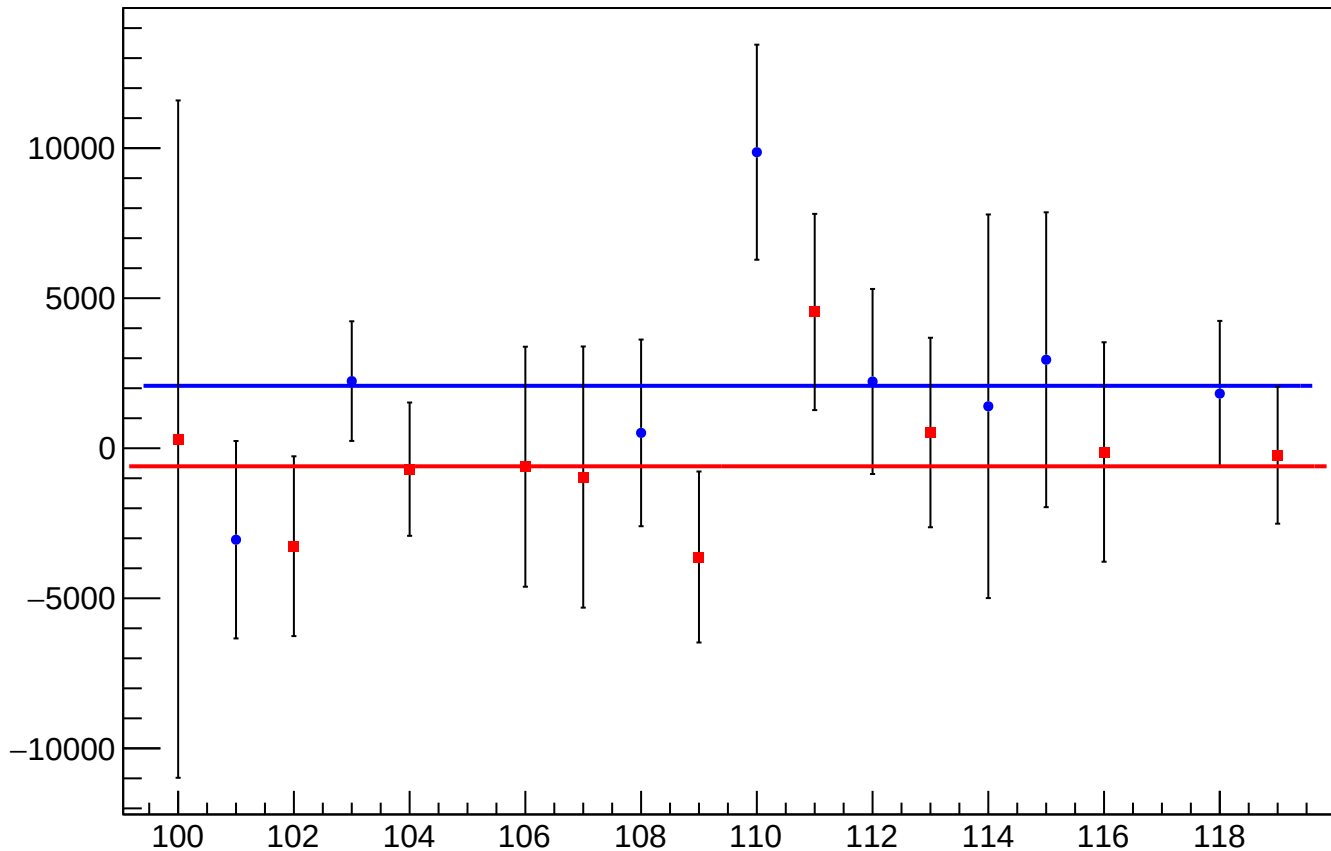
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1600744.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_avg\_mean vs Slug



Right In: 2080.346+/-1074.052  $\chi^2/\text{NDF}$ : 7.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -601.646+/-989.798  $\chi^2/\text{NDF}$ : 4.6/9

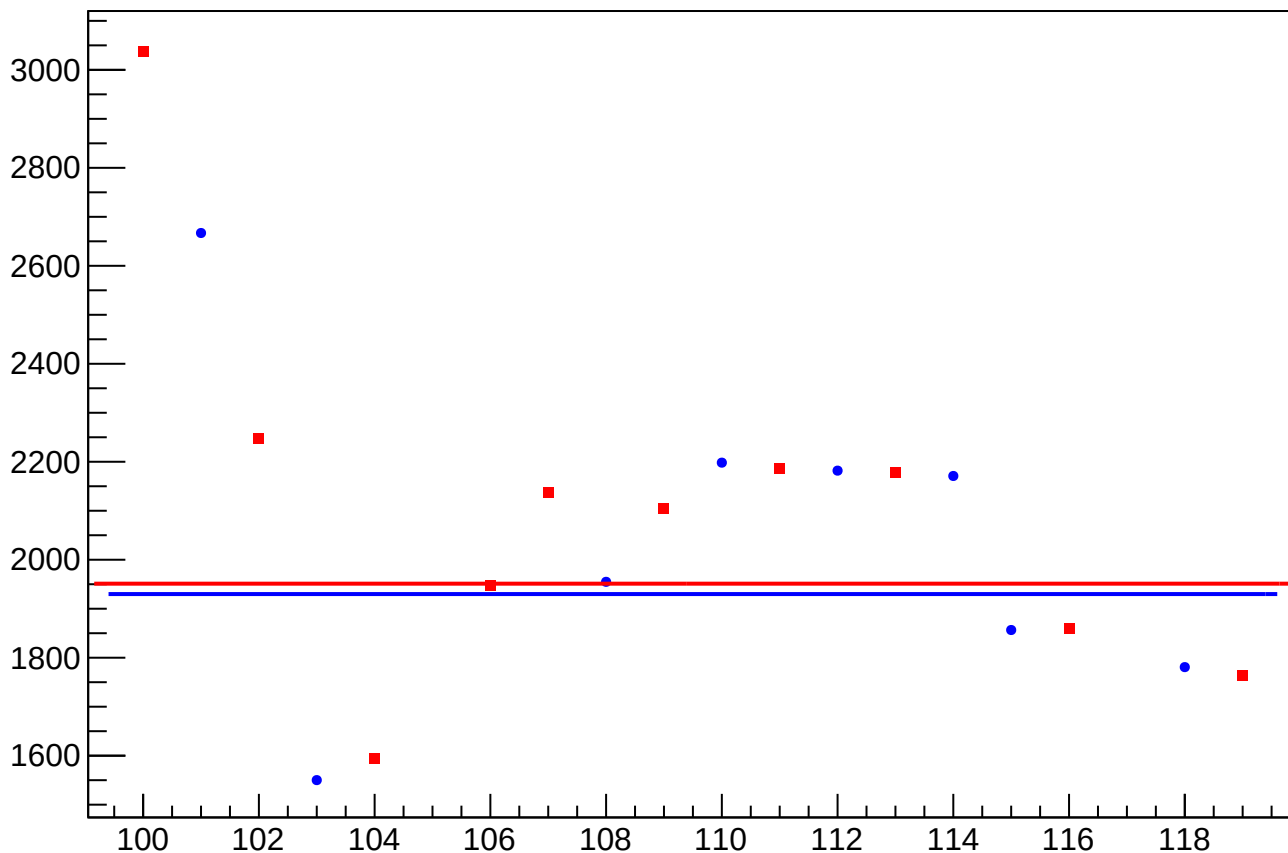
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 630.043+/-727.859  $\chi^2/\text{NDF}$ : 15.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 1929.924 $\pm$ 0.759  $\chi^2$ /NDF: 208589.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1951.140 $\pm$ 0.697  $\chi^2$ /NDF: 134201.1/9

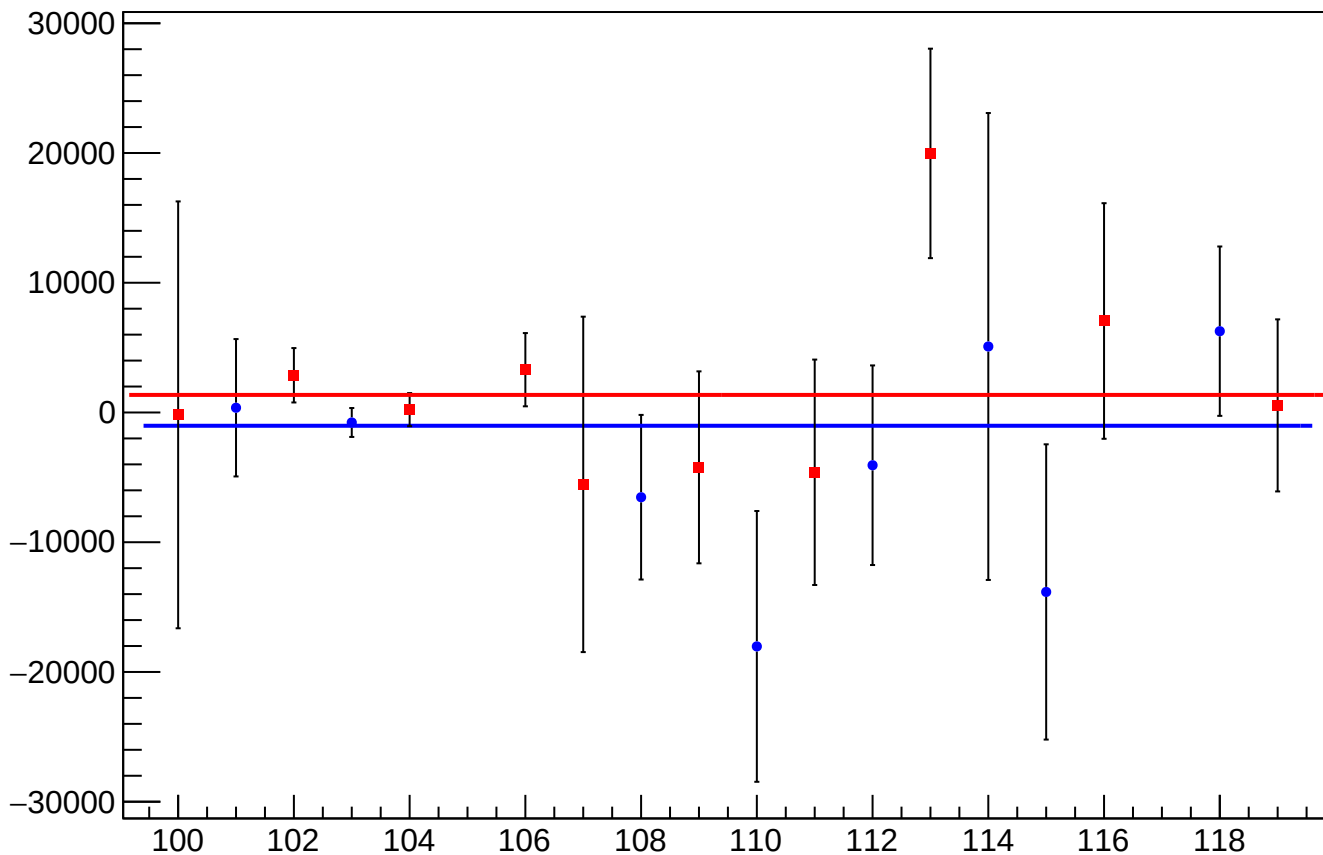
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1941.445 $\pm$ 0.513  $\chi^2$ /NDF: 343214.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_avg\_reg\_correction\_mean vs Slug



Right In: -1023.622+/-1039.120  $\chi^2/\text{NDF}$ : 6.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1354.175+/-971.717  $\chi^2/\text{NDF}$ : 8.8/9

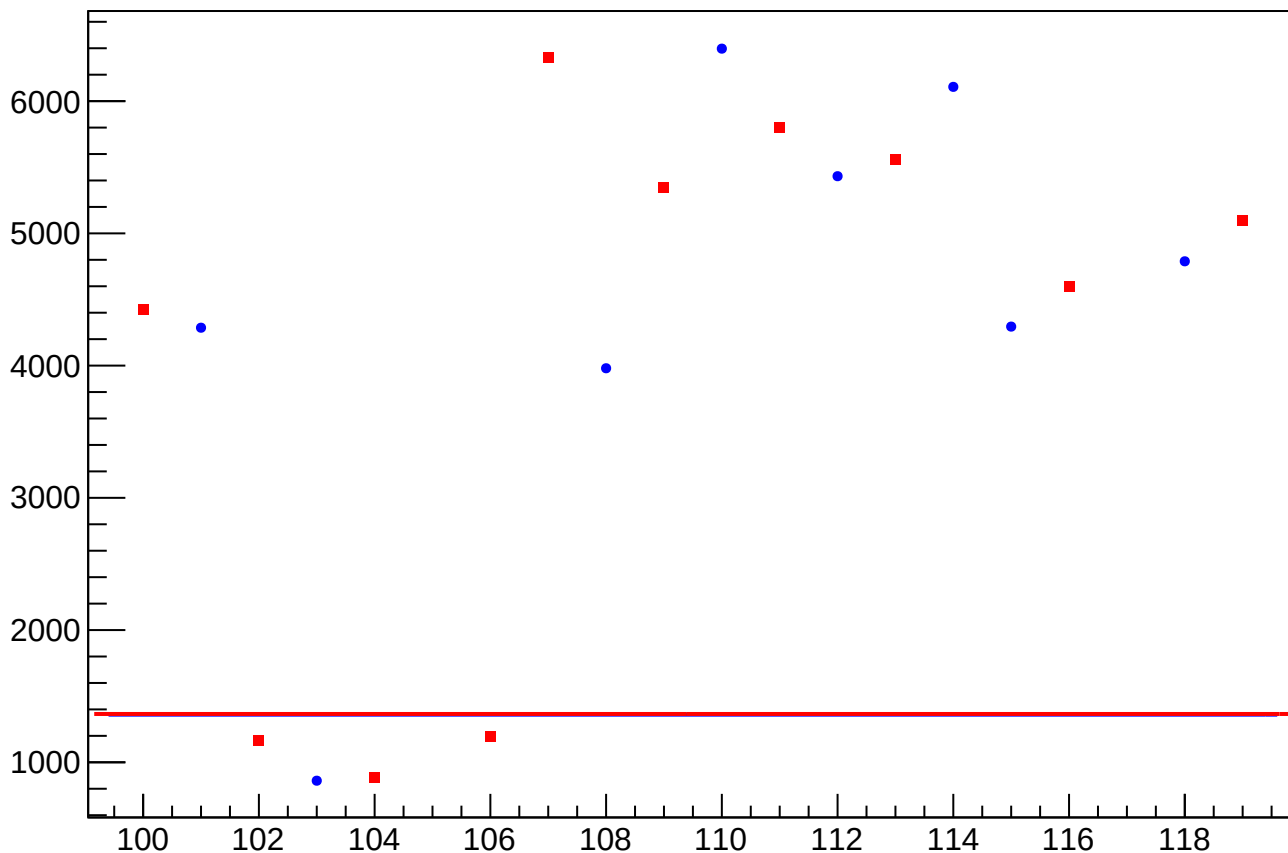
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 244.891+/-709.741  $\chi^2/\text{NDF}$ : 18.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_reg\_correction\_rms vs Slug



Right In: 1360.502 $\pm$ 0.735  $\chi^2$ /NDF: 3204045.2/7

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: 1365.428 $\pm$ 0.687  $\chi^2$ /NDF: 3202335.3/9

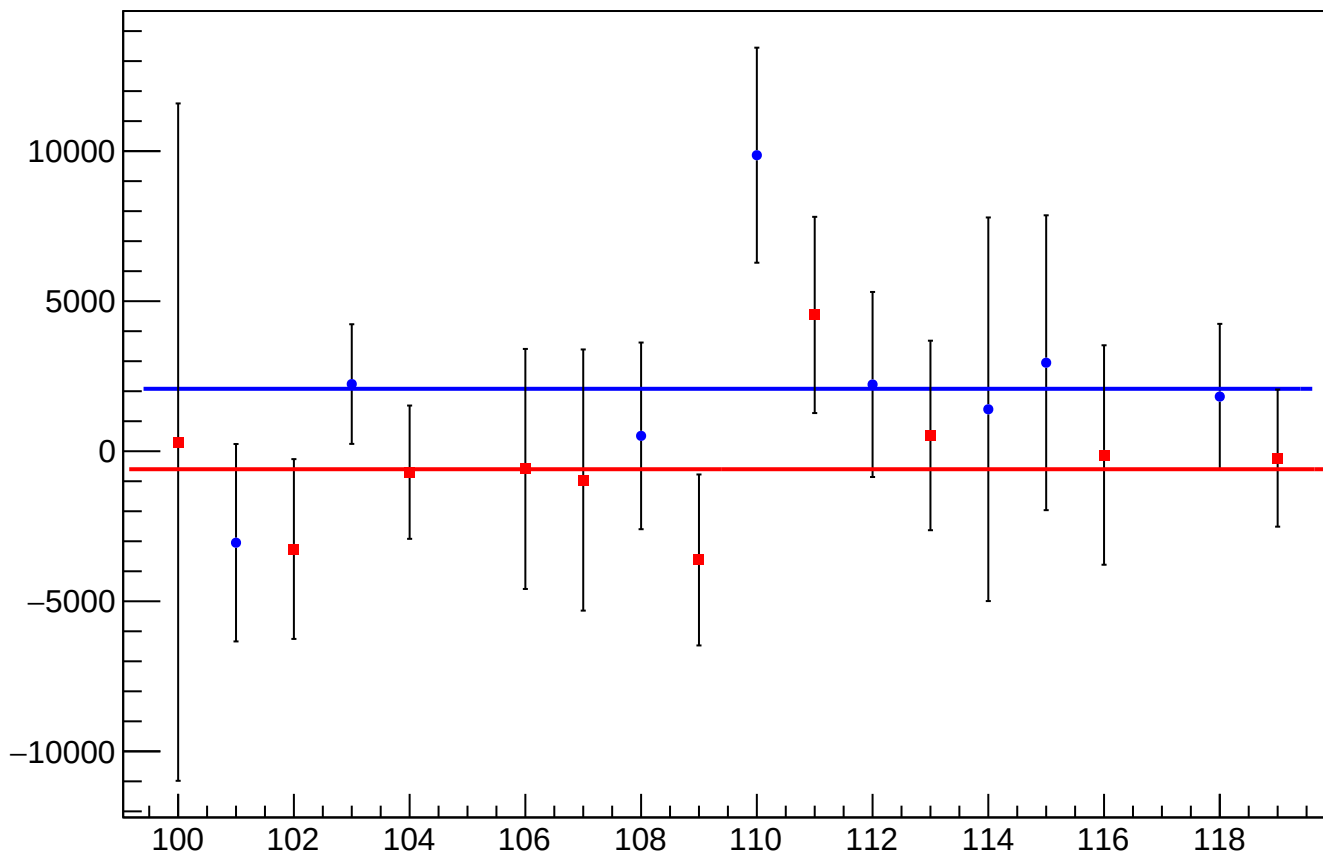
All: 1363.130 $\pm$ 0.502  $\chi^2$ /NDF: 6406404.4/17

- 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\_atl1r2\_avg\_mean vs Slug



Right In: 2080.624 $\pm$ 1074.052  $\chi^2$ /NDF: 7.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -599.252 $\pm$ 989.800  $\chi^2$ /NDF: 4.6/9

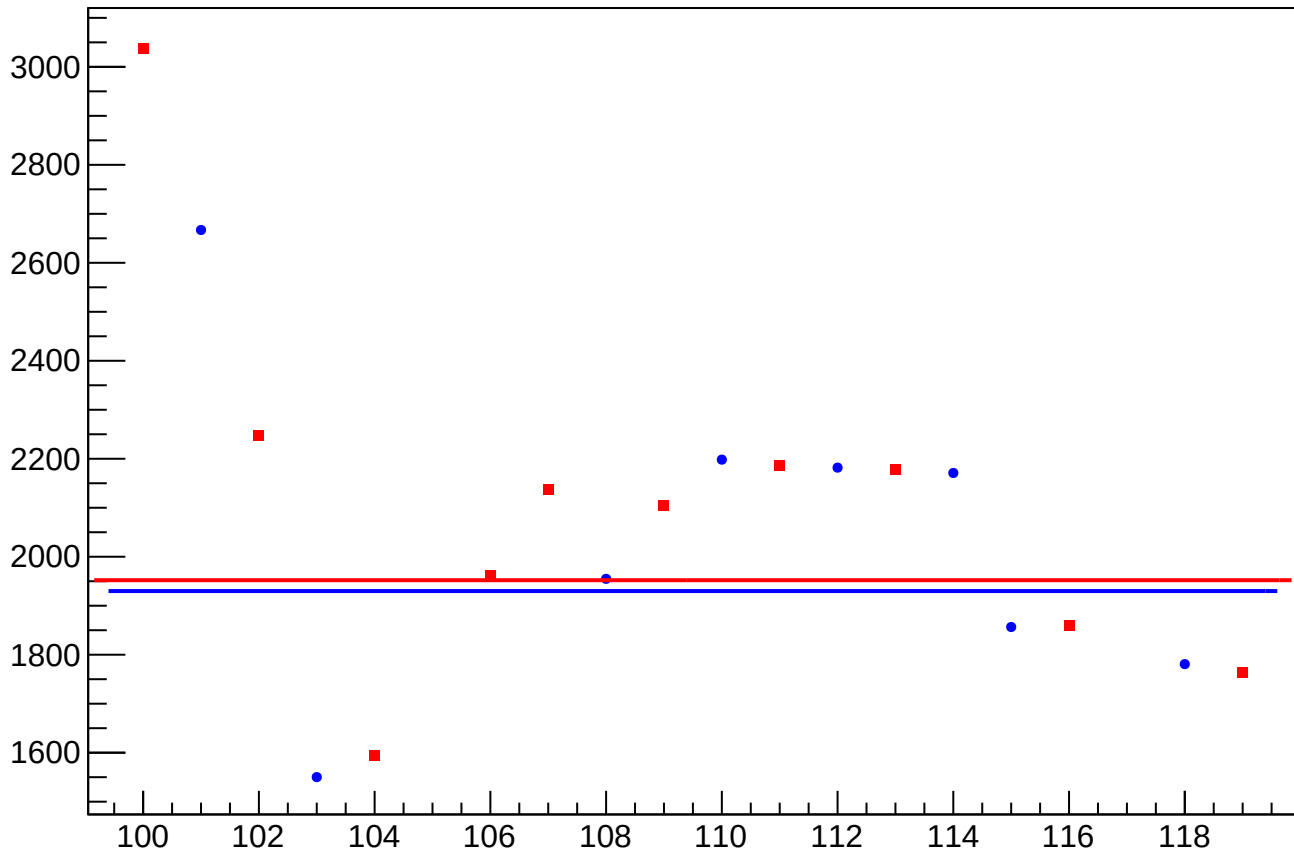
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 631.469 $\pm$ 727.860  $\chi^2$ /NDF: 15.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 1929.924 $\pm$ 0.759  $\chi^2$ /NDF: 208589.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1952.088 $\pm$ 0.697  $\chi^2$ /NDF: 134215.2/9

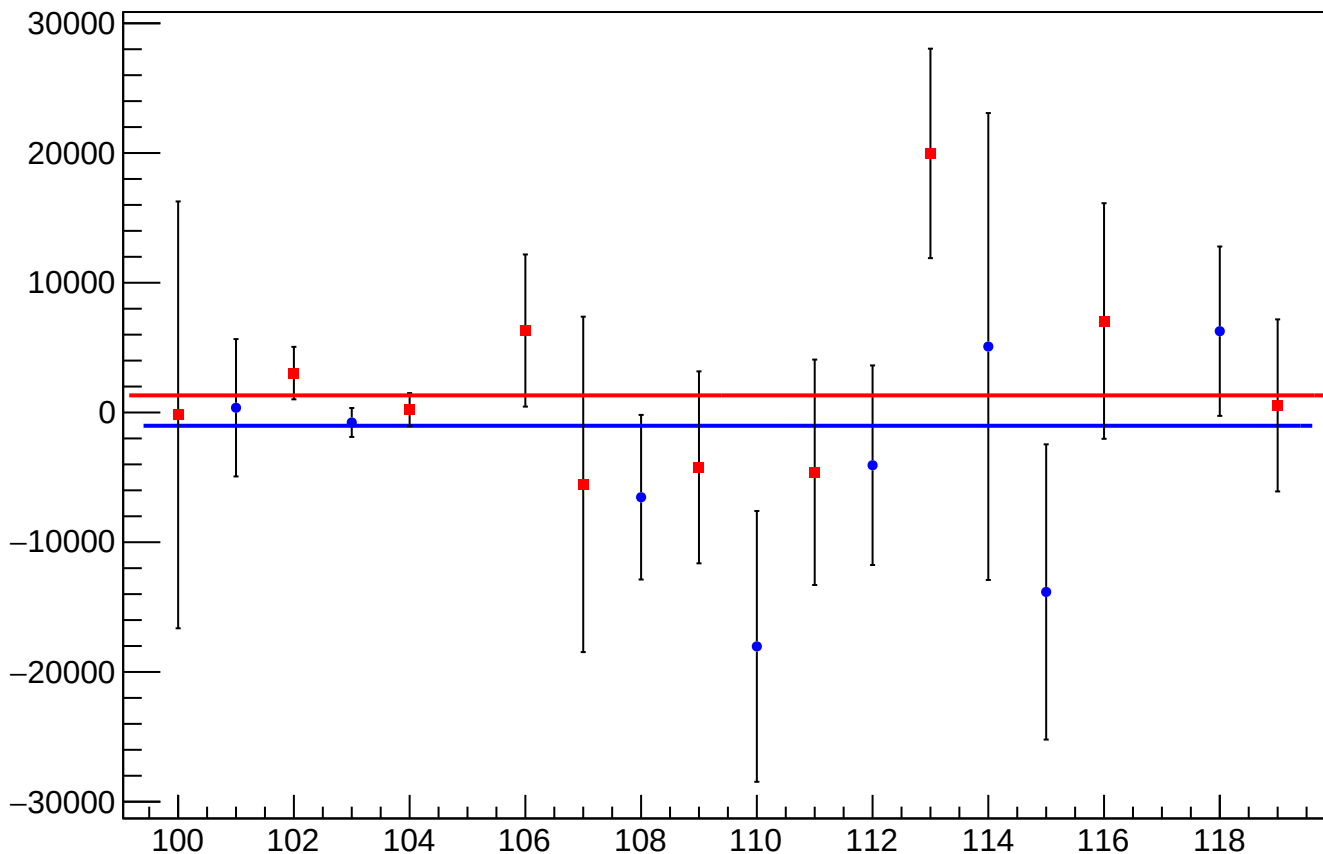
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1941.954 $\pm$ 0.514  $\chi^2$ /NDF: 343267.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_avg\_cor\_correction\_mean vs Slug



Right In: -1023.042+/-1039.053  $\chi^2/\text{NDF}$ : 6.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1319.396+/-1010.459  $\chi^2/\text{NDF}$ : 9.3/9

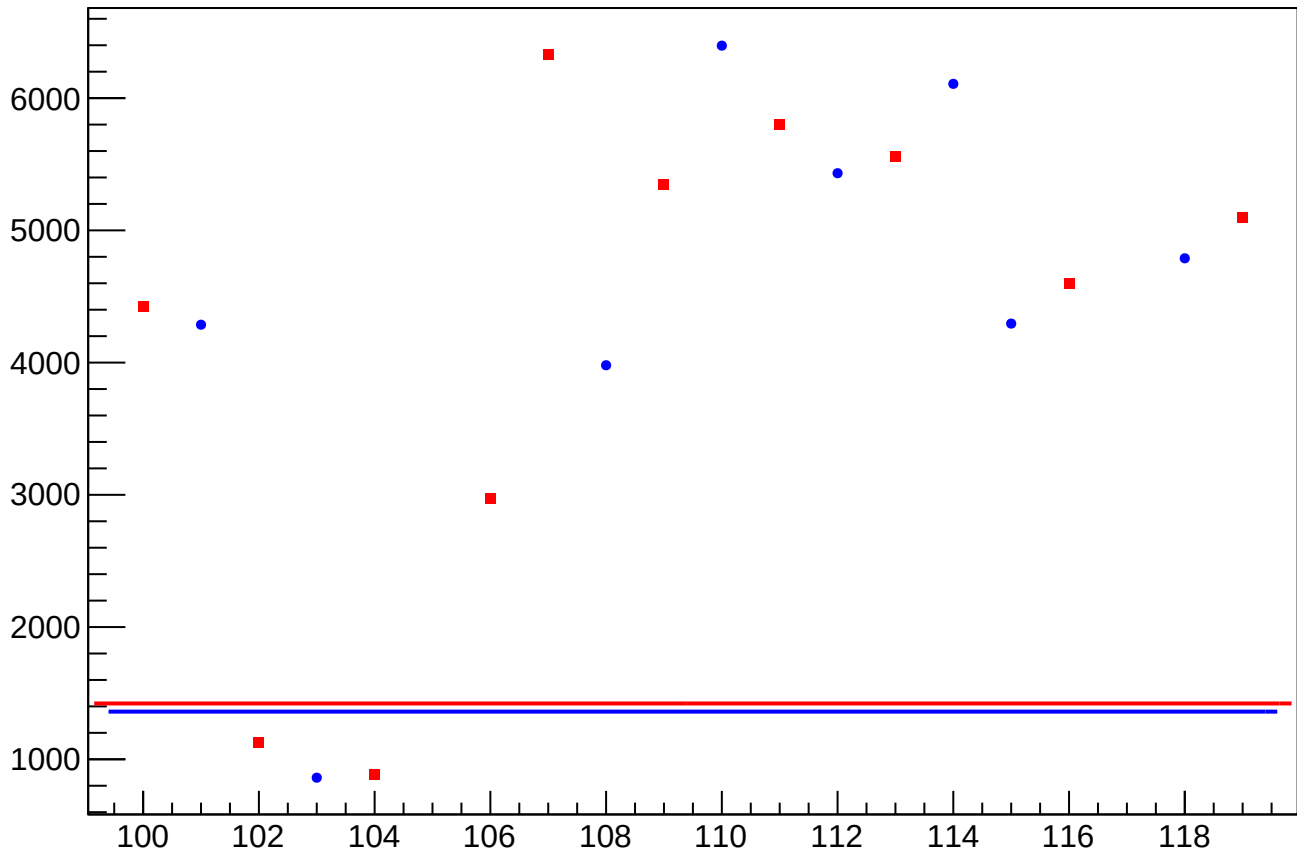
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 180.852+/-724.400  $\chi^2/\text{NDF}$ : 18.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_cor\_correction\_rms vs Slug



Right In: 1360.388+/-0.735  $\chi^2/\text{NDF}$ : 3204194.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1422.269+/-0.715  $\chi^2/\text{NDF}$ : 3347346.5/9

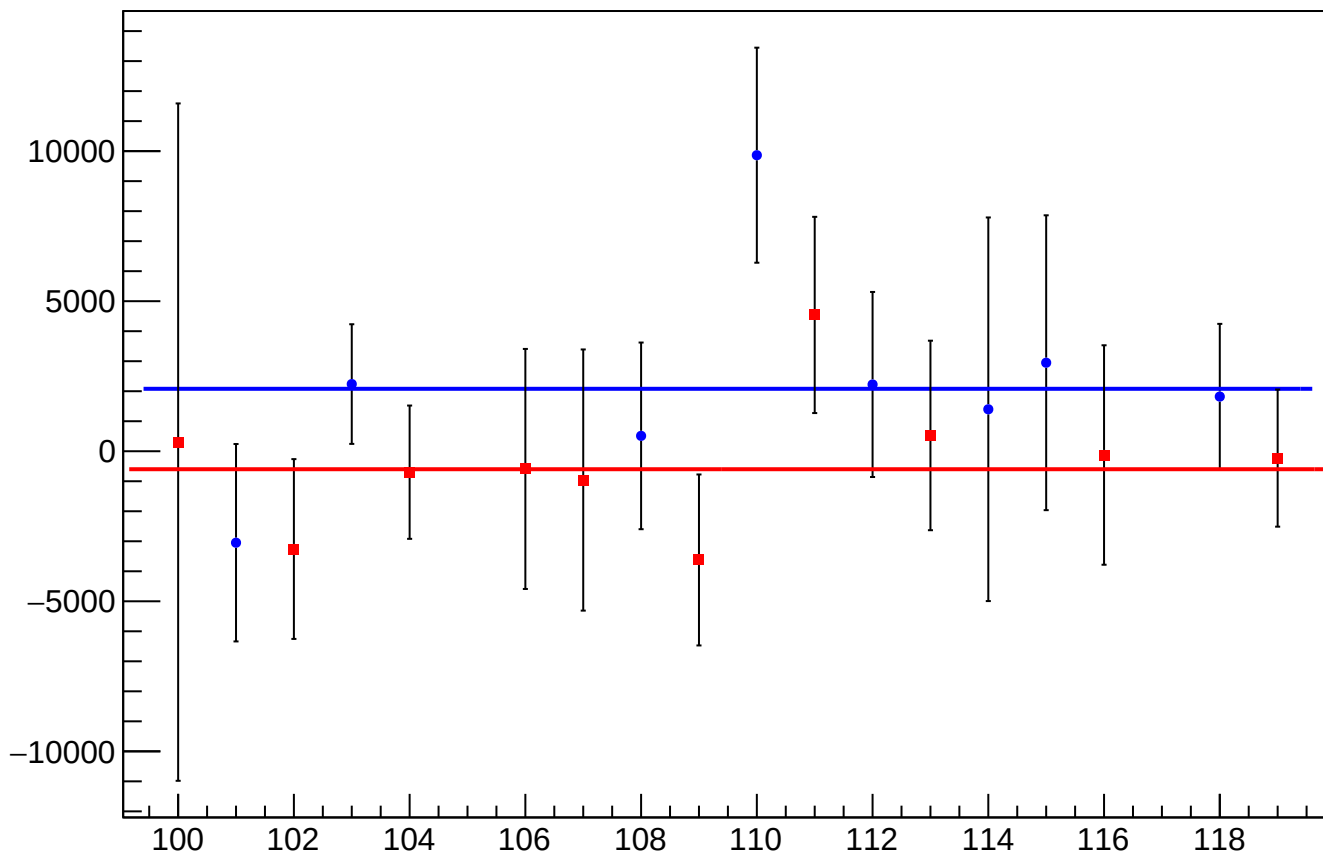
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1392.192+/-0.512  $\chi^2/\text{NDF}$ : 6555186.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl1r2\_avg\_mean vs Slug



Right In: 2080.624 $\pm$ 1074.052  $\chi^2$ /NDF: 7.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -599.252 $\pm$ 989.800  $\chi^2$ /NDF: 4.6/9

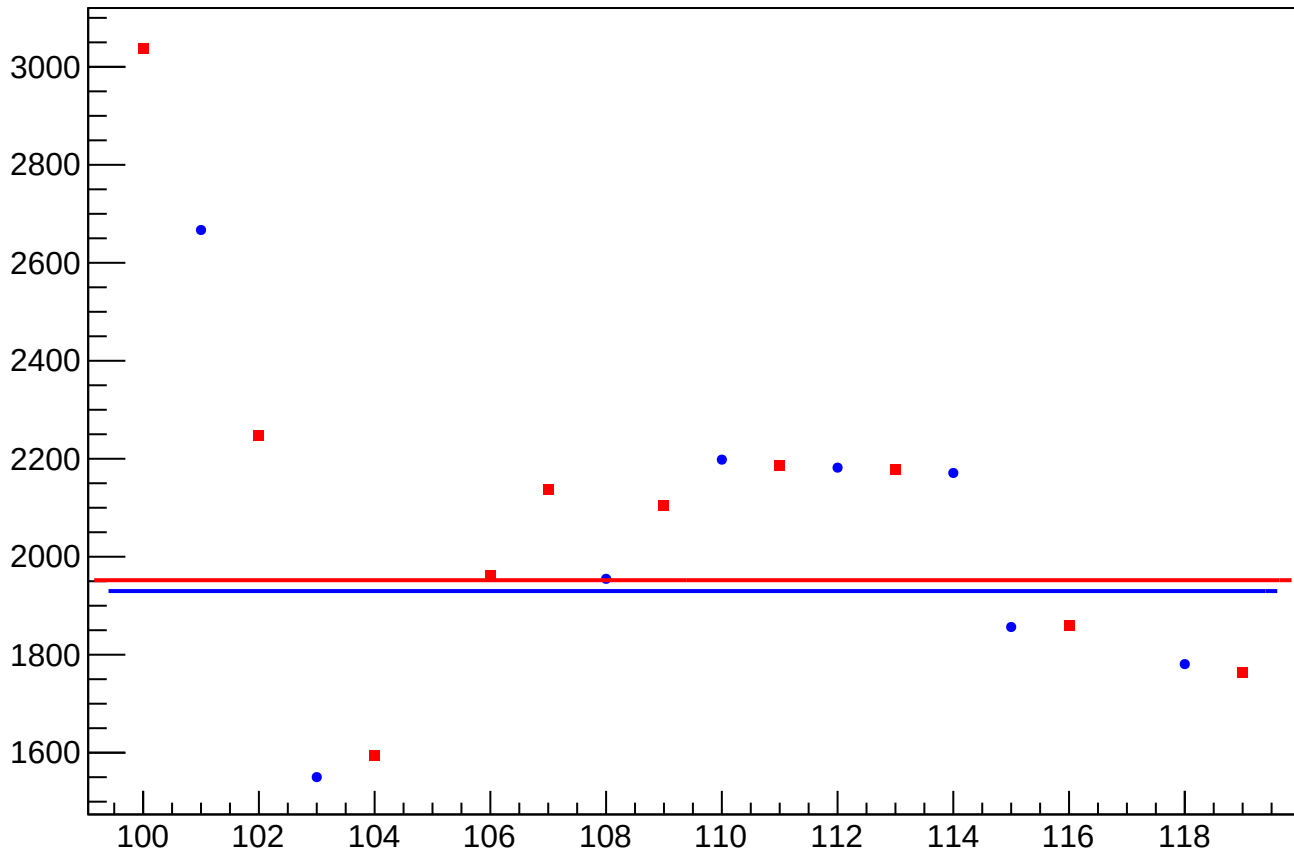
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 631.469 $\pm$ 727.860  $\chi^2$ /NDF: 15.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 1929.924 $\pm$ 0.759  $\chi^2$ /NDF: 208589.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1952.088 $\pm$ 0.697  $\chi^2$ /NDF: 134215.2/9

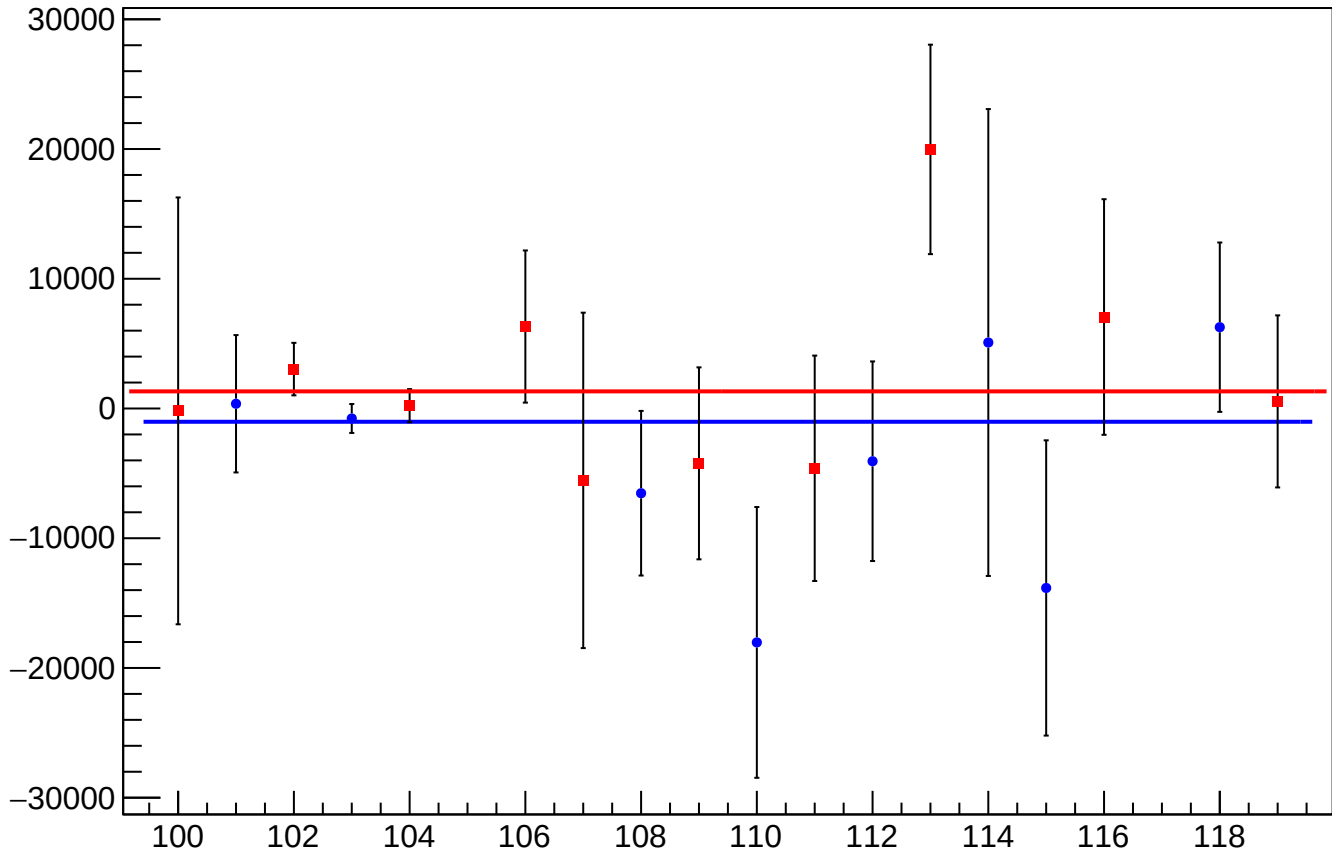
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1941.954 $\pm$ 0.514  $\chi^2$ /NDF: 343267.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -1023.042 $\pm$ 1039.053  $\chi^2$ /NDF: 6.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1319.396 $\pm$ 1010.459  $\chi^2$ /NDF: 9.3/9

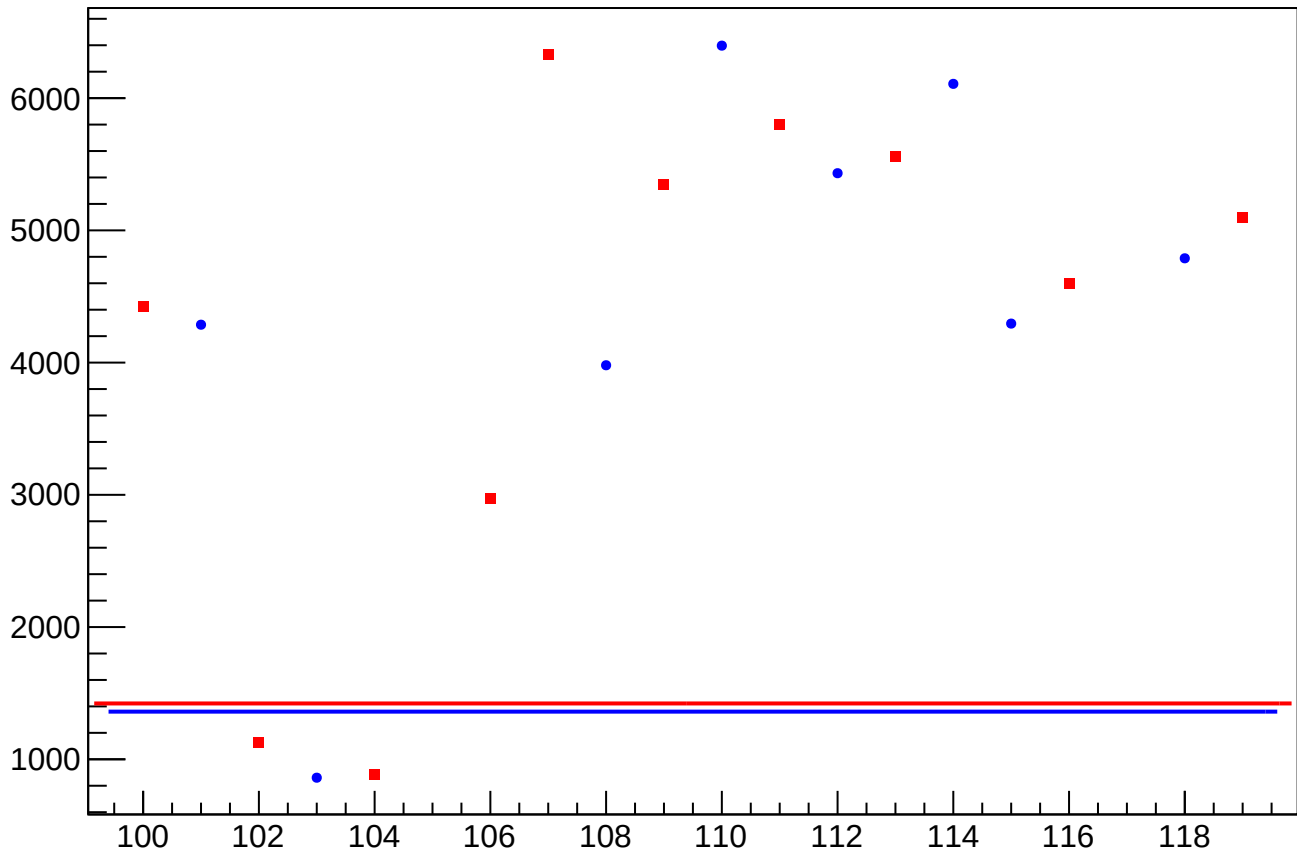
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 180.852 $\pm$ 724.400  $\chi^2$ /NDF: 18.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1360.388+/-0.735  $\chi^2/\text{NDF}$ : 3204194.6/7

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: 1422.269+/-0.715  $\chi^2/\text{NDF}$ : 3347346.5/9

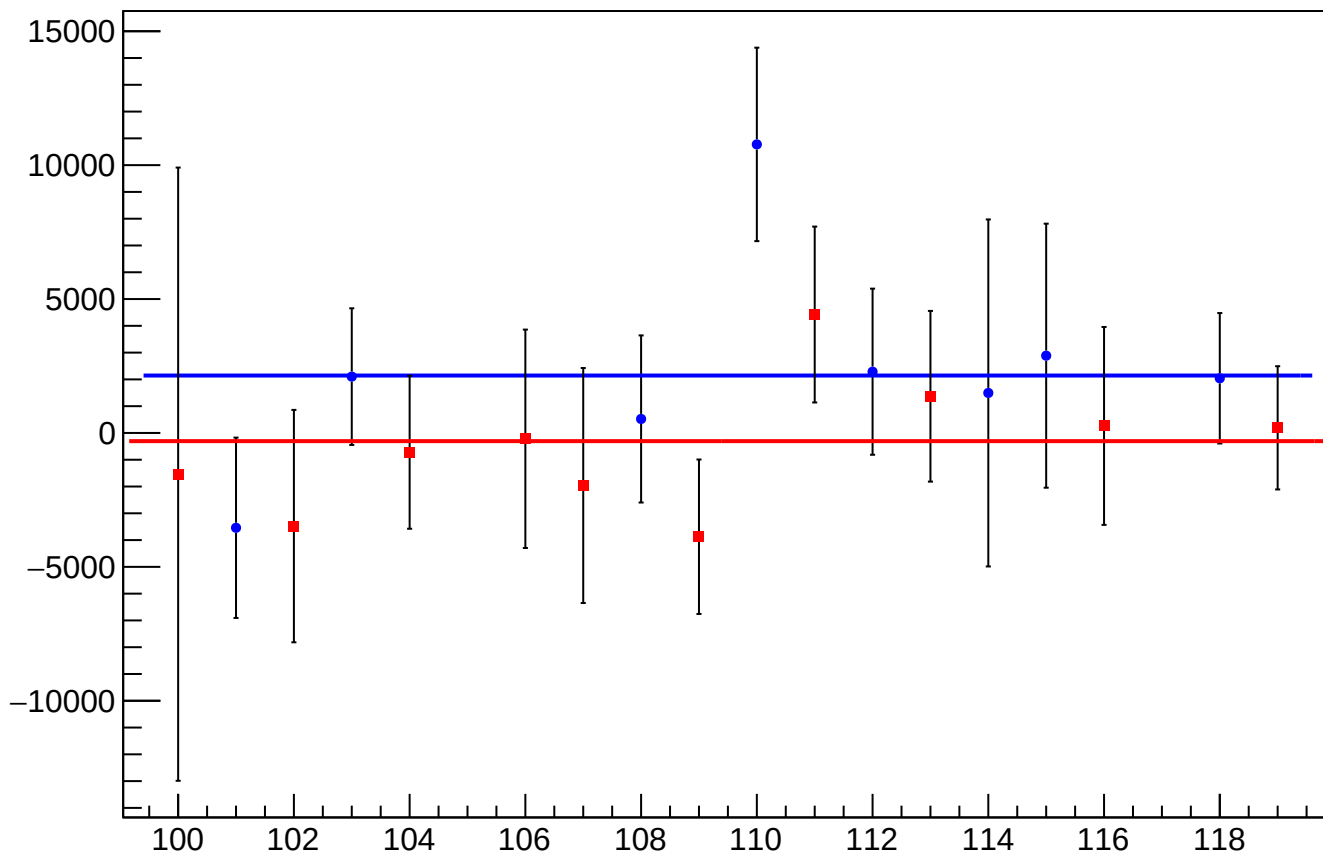
All: 1392.192+/-0.512  $\chi^2/\text{NDF}$ : 6555186.9/17

- 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: 2144.224 $\pm$ 1147.913  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -305.500 $\pm$ 1072.733  $\chi^2$ /NDF: 4.7/9

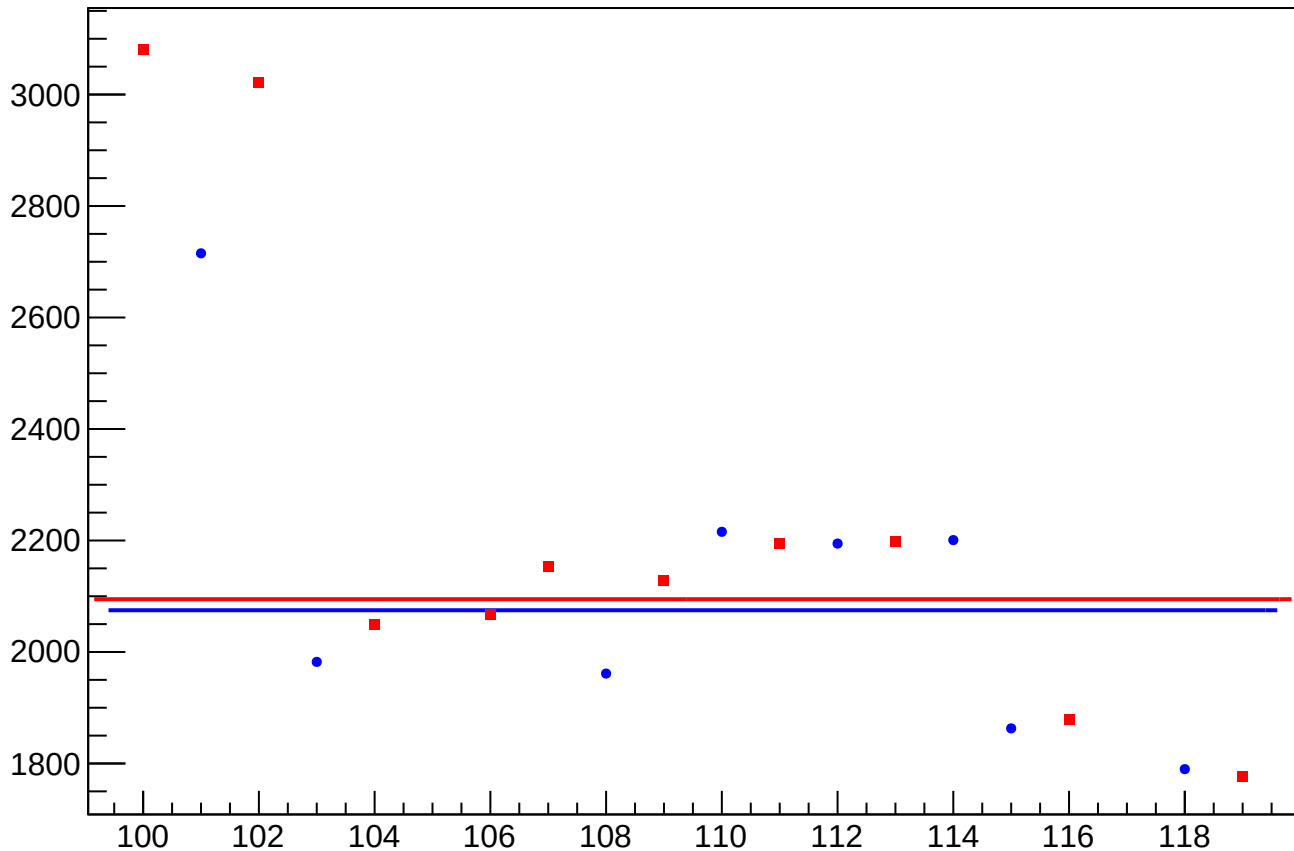
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 836.522 $\pm$ 783.768  $\chi^2$ /NDF: 16.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 2074.877+/-0.812  $\chi^2/\text{NDF}$ : 115459.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2094.680+/-0.757  $\chi^2/\text{NDF}$ : 156458.7/9

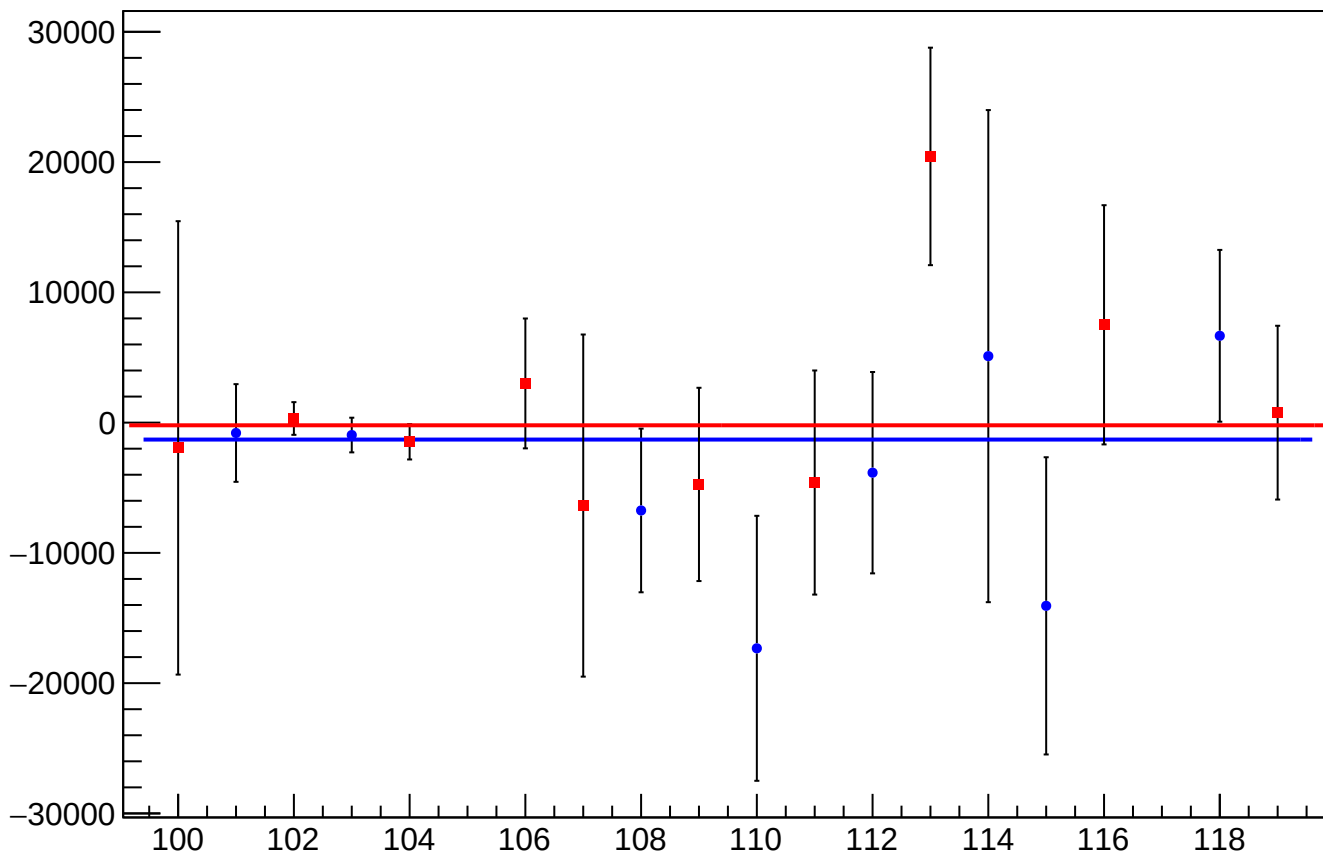
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2085.466+/-0.554  $\chi^2/\text{NDF}$ : 272236.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_dit\_correction\_mean vs Slug



Right In: -1300.387 $\pm$ 1177.402  $\chi^2$ /NDF: 6.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -204.997 $\pm$ 874.437  $\chi^2$ /NDF: 9.2/9

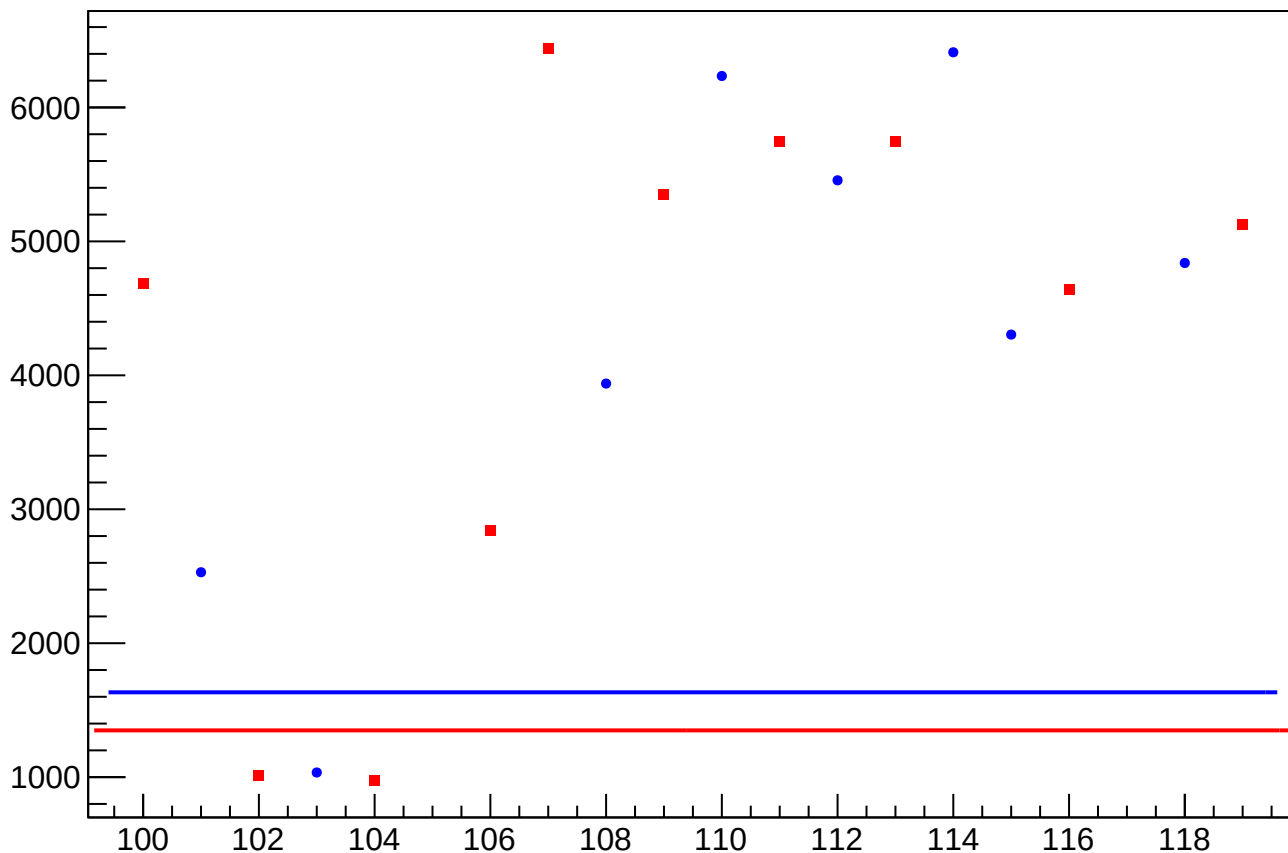
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -594.403 $\pm$ 702.007  $\chi^2$ /NDF: 16.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_avg\_dit\_correction\_rms vs Slug



Right In: 1633.502+/-0.833  $\chi^2/\text{NDF}$ : 2397281.3/7

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

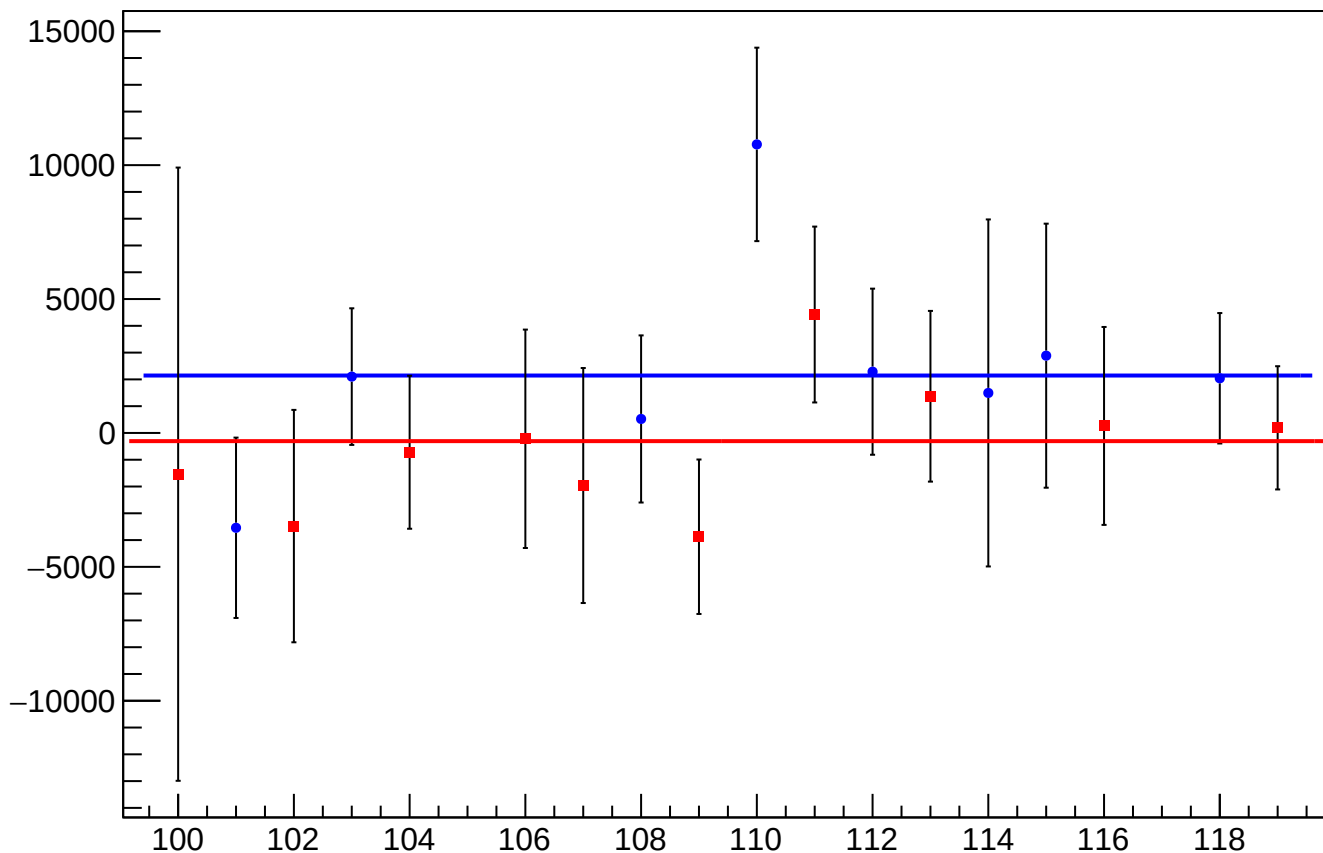
Right Out: 1349.130+/-0.618  $\chi^2/\text{NDF}$ : 3410395.6/9

All: 1450.223+/-0.496  $\chi^2/\text{NDF}$ : 5882870.7/17

- 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\_atl1r2\_avg\_mean vs Slug



Right In: 2144.218 $\pm$ 1147.912  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -305.505 $\pm$ 1072.733  $\chi^2$ /NDF: 4.7/9

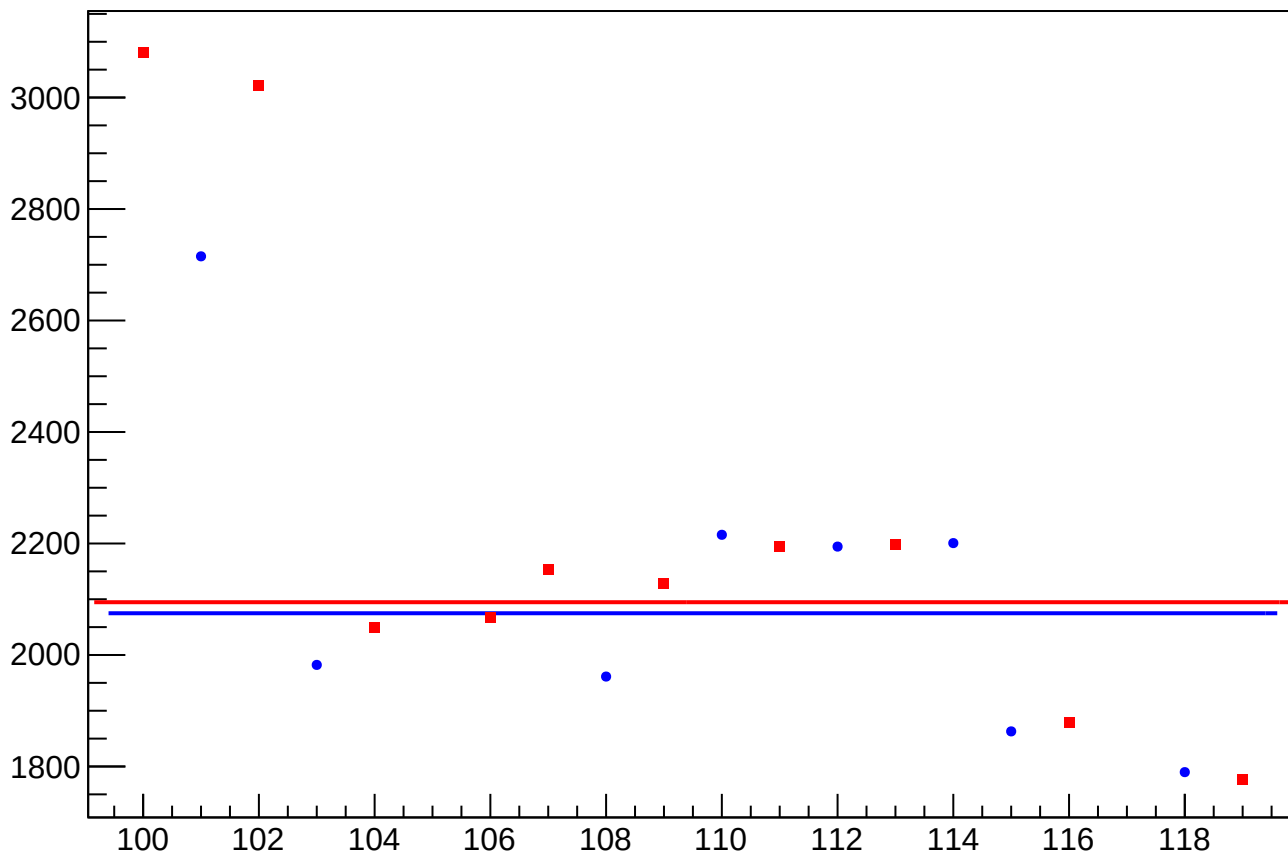
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 836.516 $\pm$ 783.768  $\chi^2$ /NDF: 16.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 2074.876+/-0.812  $\chi^2/\text{NDF}$ : 115460.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2094.679+/-0.757  $\chi^2/\text{NDF}$ : 156457.9/9

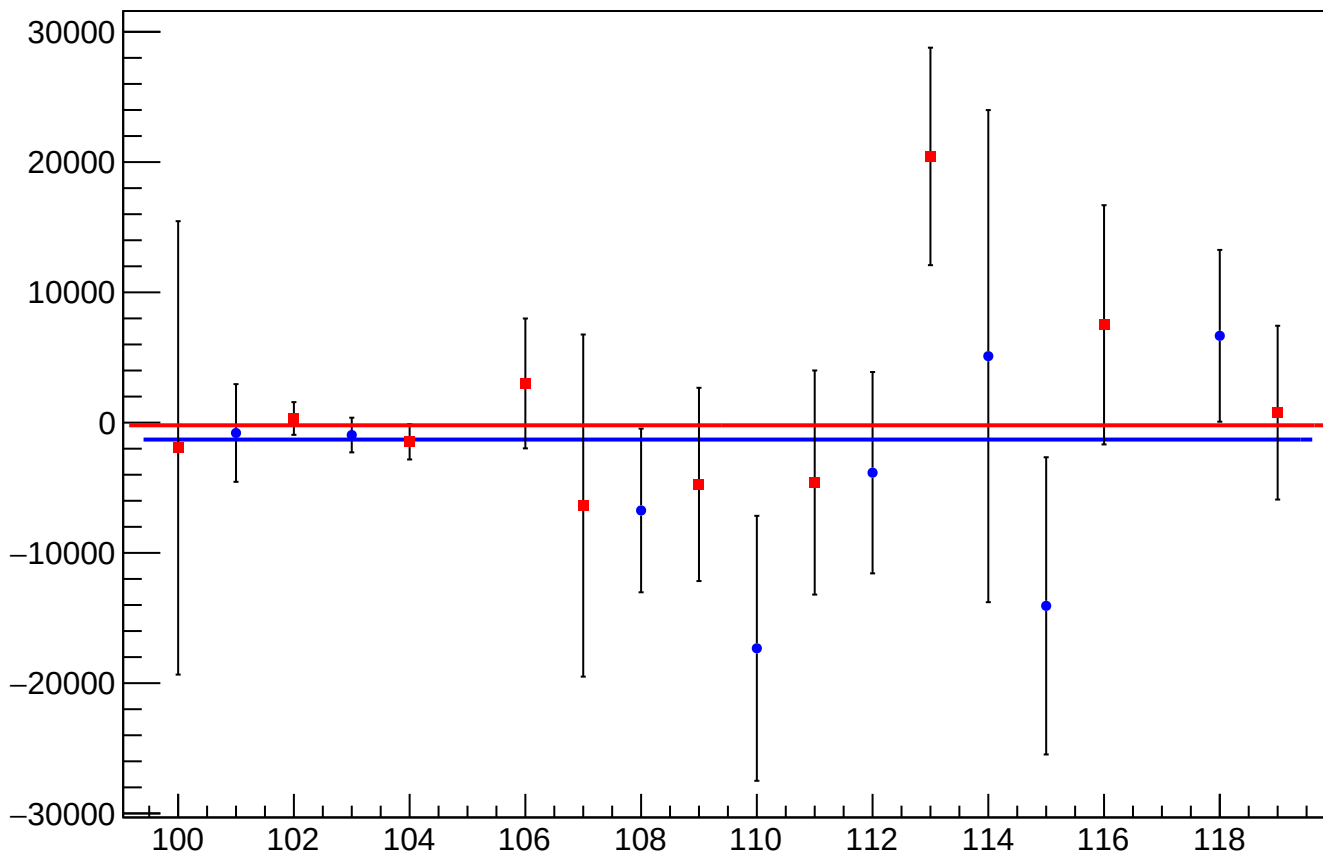
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2085.465+/-0.554  $\chi^2/\text{NDF}$ : 272236.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -1300.391+/-1177.401  $\chi^2/\text{NDF}$ : 6.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -204.992+/-874.436  $\chi^2/\text{NDF}$ : 9.2/9

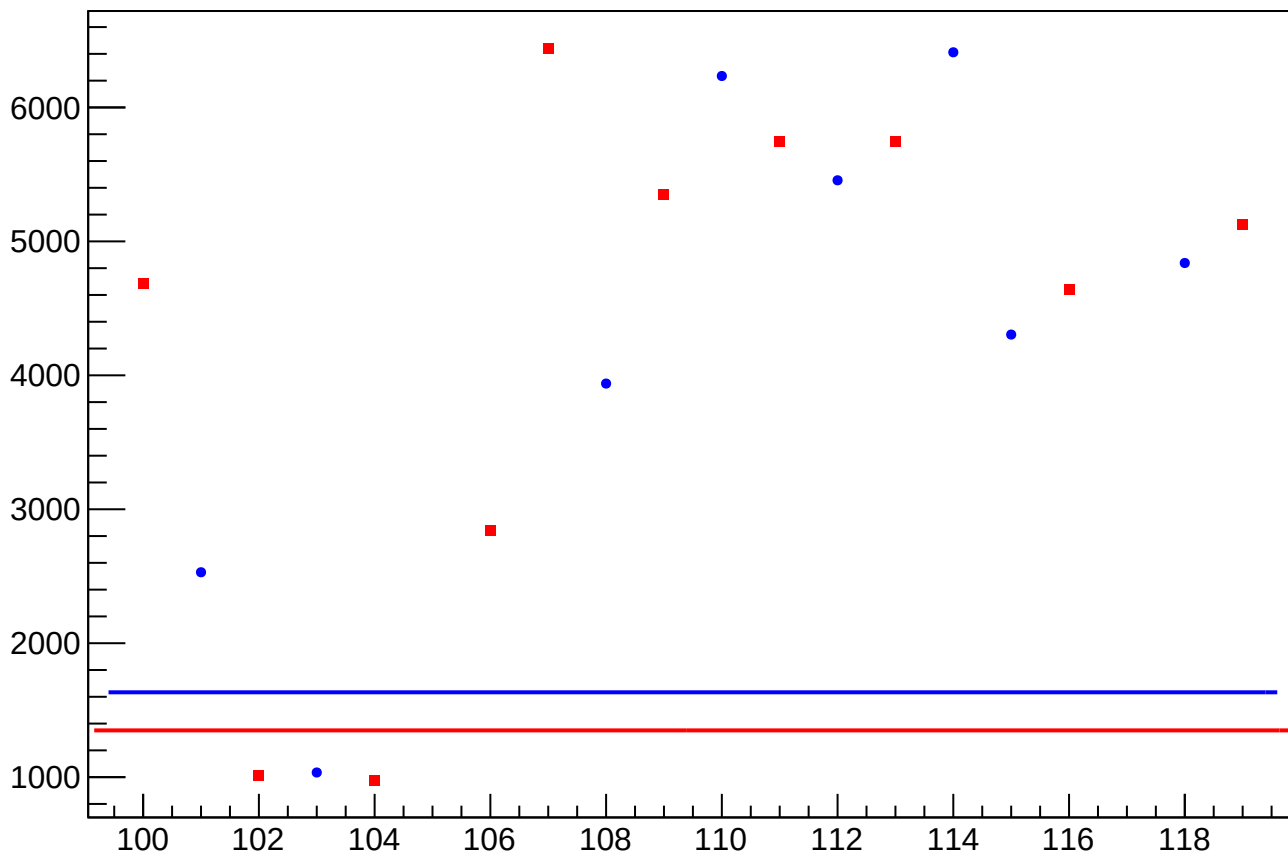
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -594.401+/-702.007  $\chi^2/\text{NDF}$ : 16.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1633.502 $\pm$ 0.833  $\chi^2$ /NDF: 2397279.2/7

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: 1349.130 $\pm$ 0.618  $\chi^2$ /NDF: 3410391.9/9

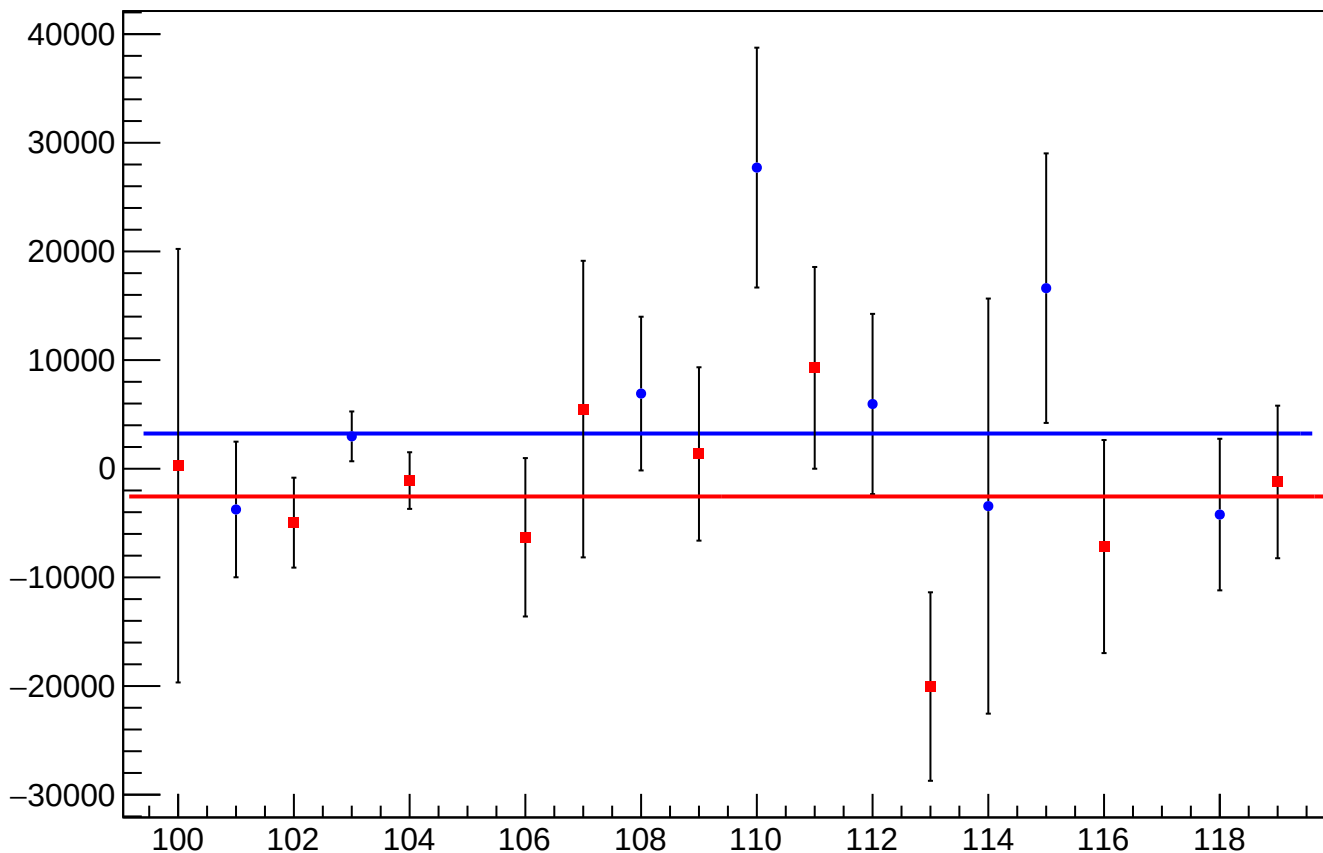
All: 1450.223 $\pm$ 0.496  $\chi^2$ /NDF: 5882864.8/17

- 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\_avg\_mean vs Slug



Right In: 3240.698+/-1861.553  $\chi^2/\text{NDF}$ : 9.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2553.635+/-1815.062  $\chi^2/\text{NDF}$ : 7.5/9

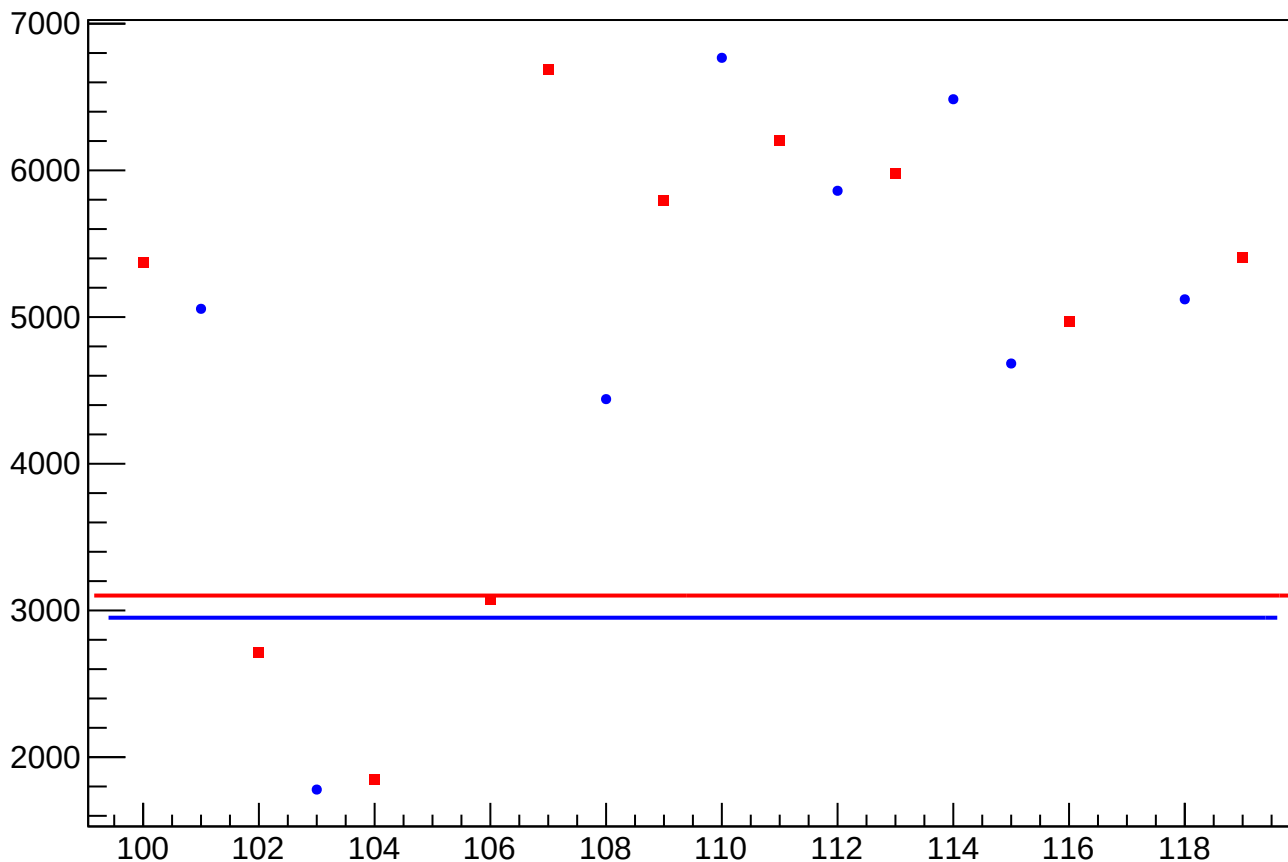
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 270.275+/-1299.568  $\chi^2/\text{NDF}$ : 21.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_rms vs Slug



Right In: 2950.595+/-1.316  $\chi^2/\text{NDF}$ : 1625439.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3101.658+/-1.266  $\chi^2/\text{NDF}$ : 1601167.4/9

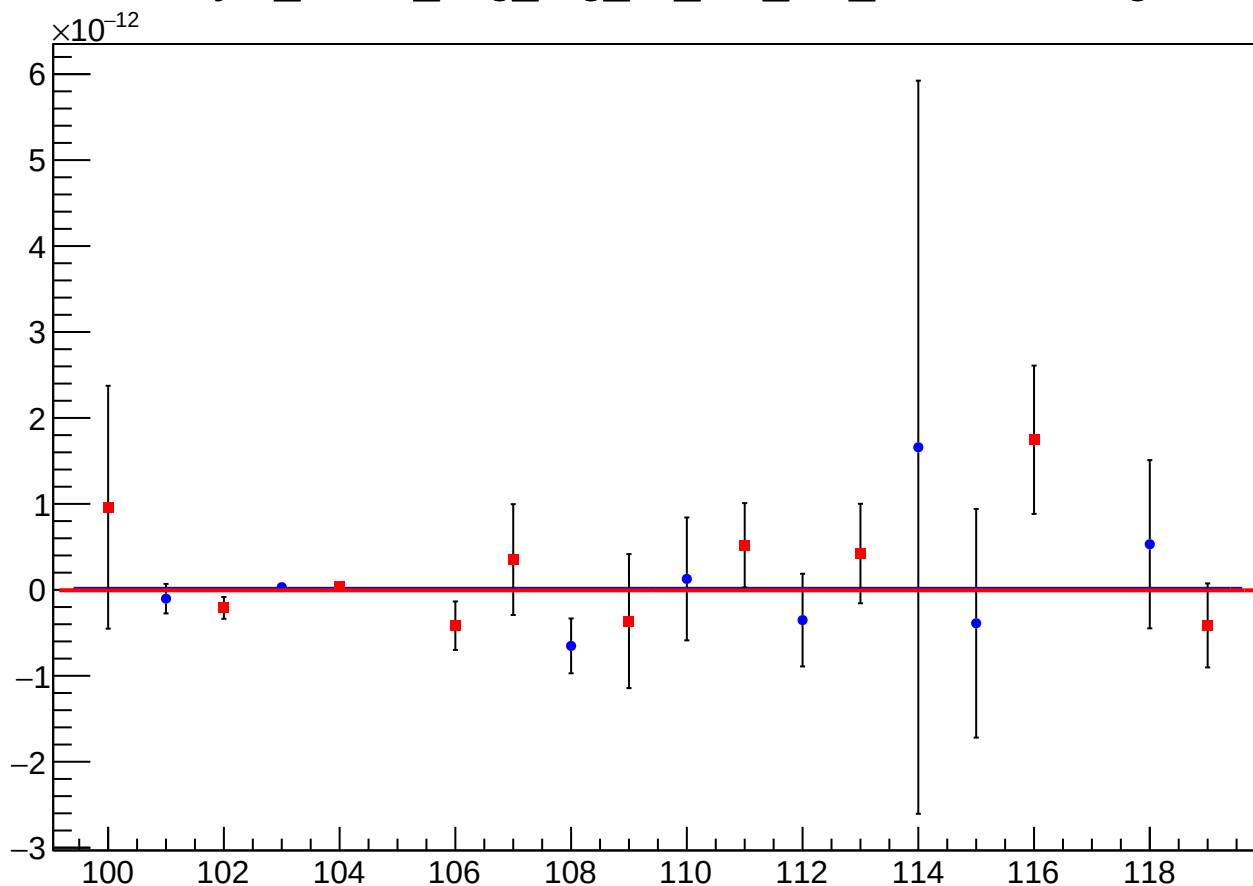
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3029.068+/-0.912  $\chi^2/\text{NDF}$ : 3233448.9/17

- sign 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: 6.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.8/9

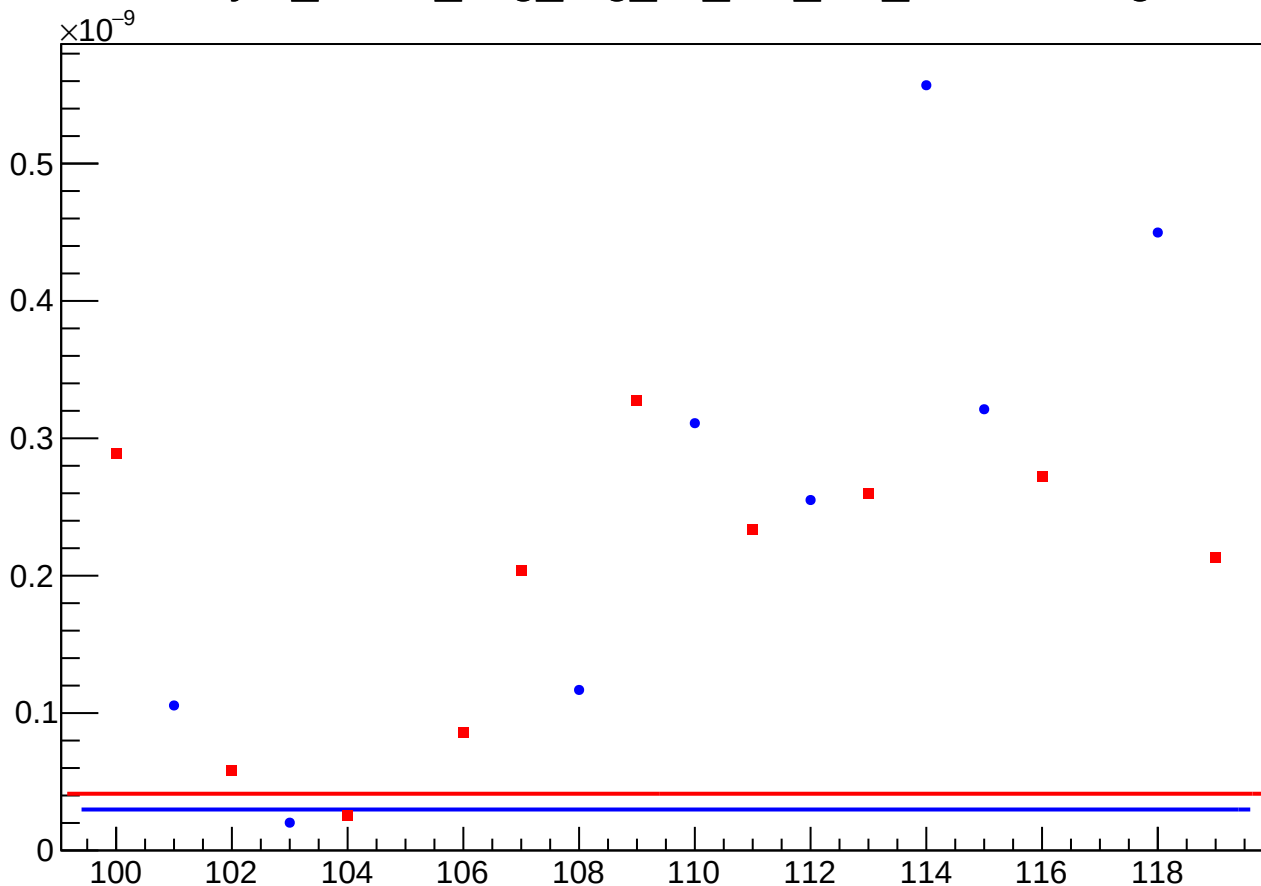
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 18.8/17

- 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  $\chi^2/\text{NDF}$ : 1796100.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1686255.5/9

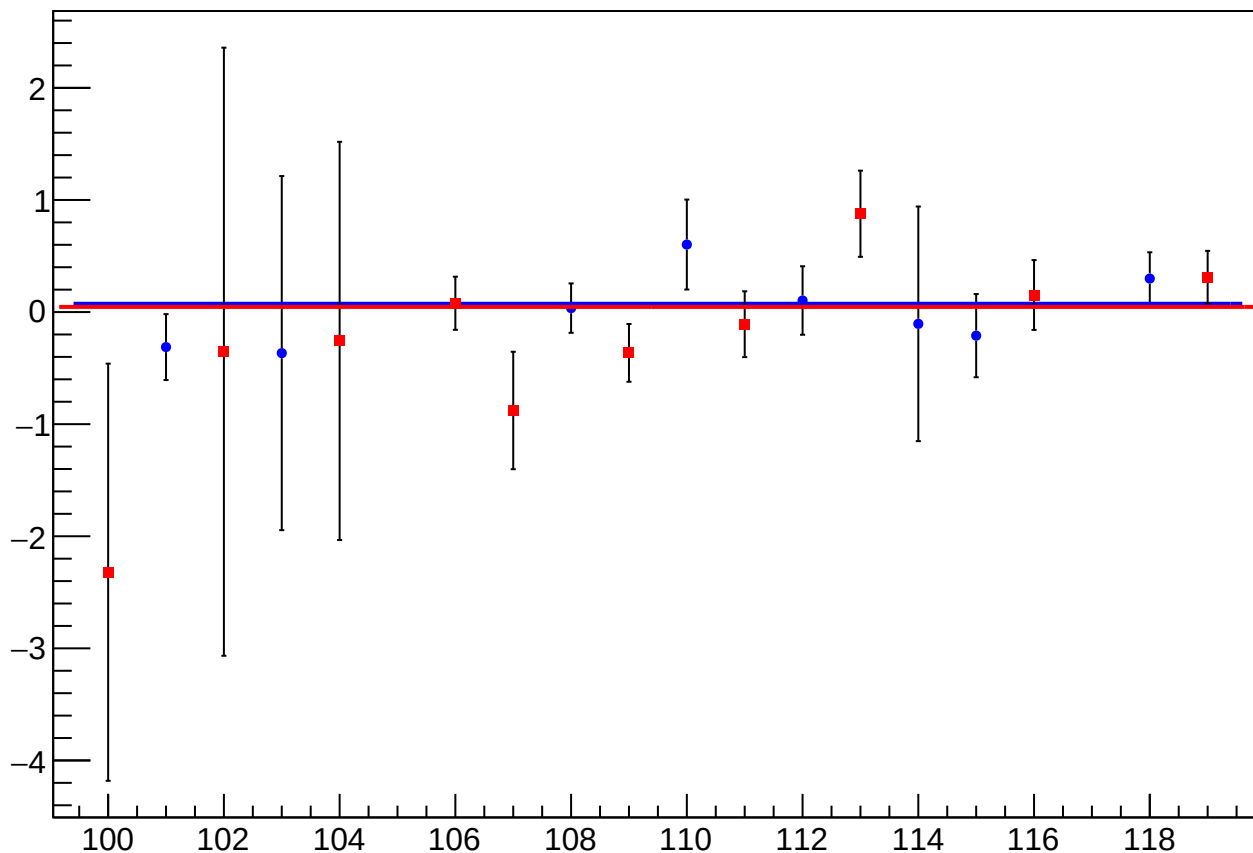
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3547872.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.074 $\pm$ 0.115  $\chi^2$ /NDF: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.046 $\pm$ 0.109  $\chi^2$ /NDF: 13.7/9

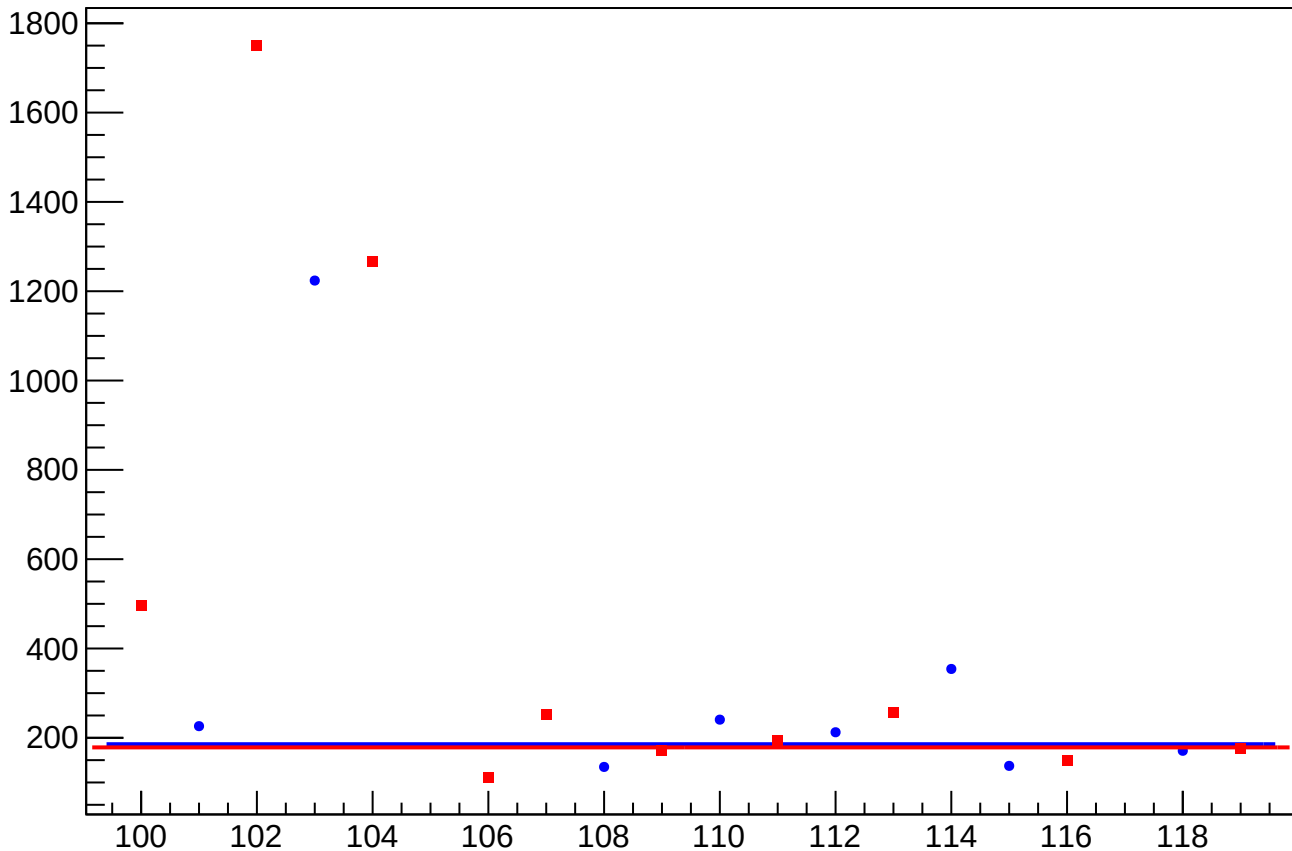
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.059 $\pm$ 0.079  $\chi^2$ /NDF: 18.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 185.668+/-0.081  $\chi^2/\text{NDF}$ : 1155443.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 178.547+/-0.077  $\chi^2/\text{NDF}$ : 1791256.6/9

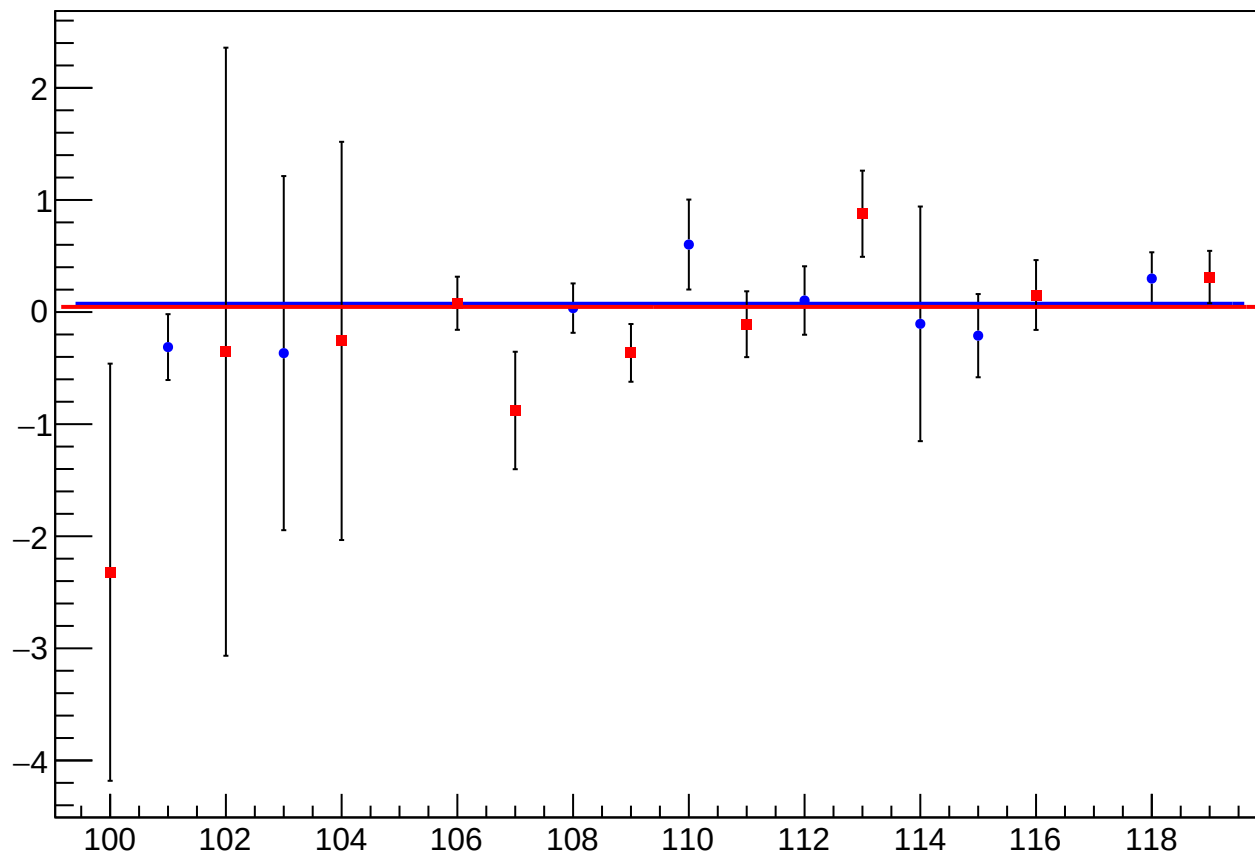
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 181.922+/-0.056  $\chi^2/\text{NDF}$ : 2950749.1/17

- 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: 0.074 $\pm$ 0.115  $\chi^2$ /NDF: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.046 $\pm$ 0.109  $\chi^2$ /NDF: 13.7/9

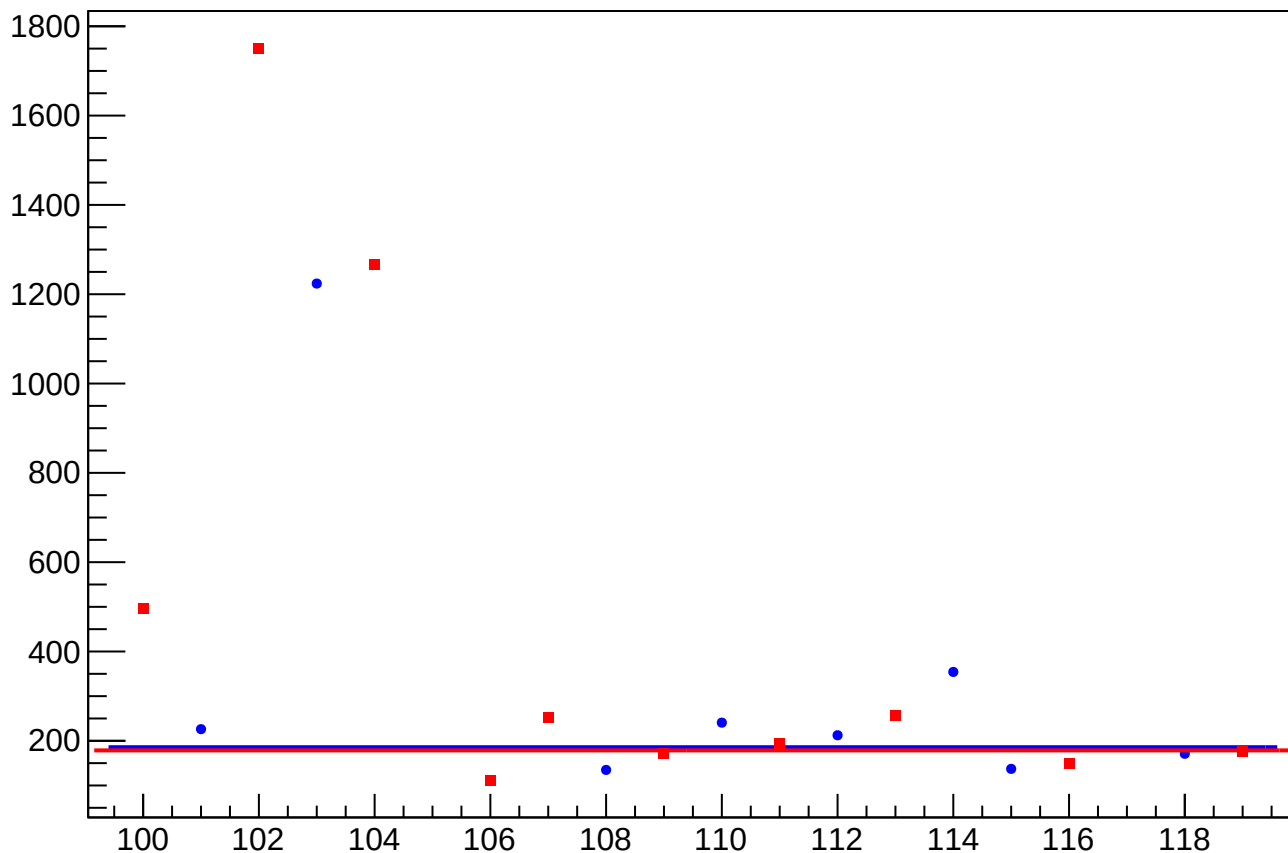
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.059 $\pm$ 0.079  $\chi^2$ /NDF: 18.9/17

- 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: 185.668+/-0.081  $\chi^2/\text{NDF}$ : 1155443.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 178.547+/-0.077  $\chi^2/\text{NDF}$ : 1791256.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

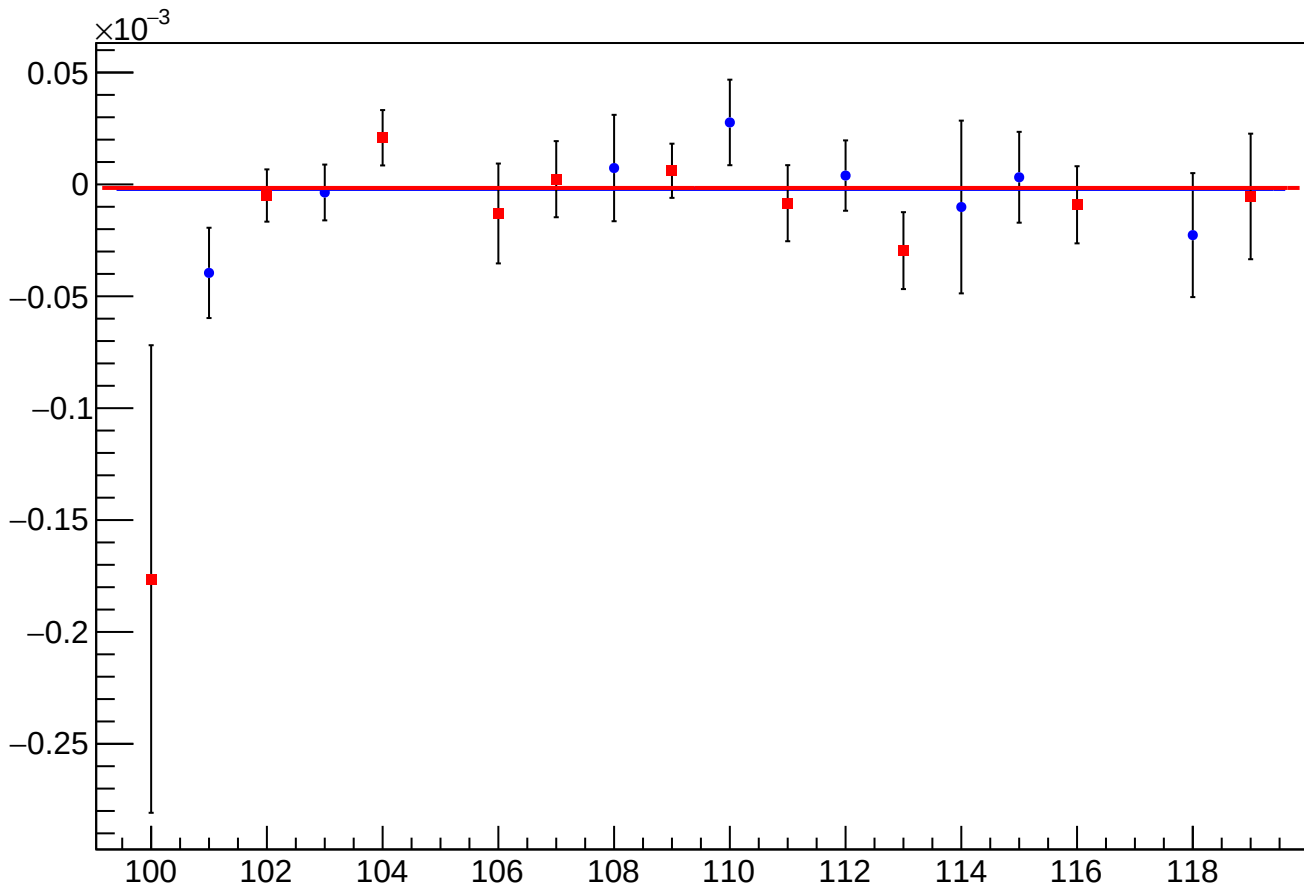
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 181.922+/-0.056  $\chi^2/\text{NDF}$ : 2950749.1/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.9/9

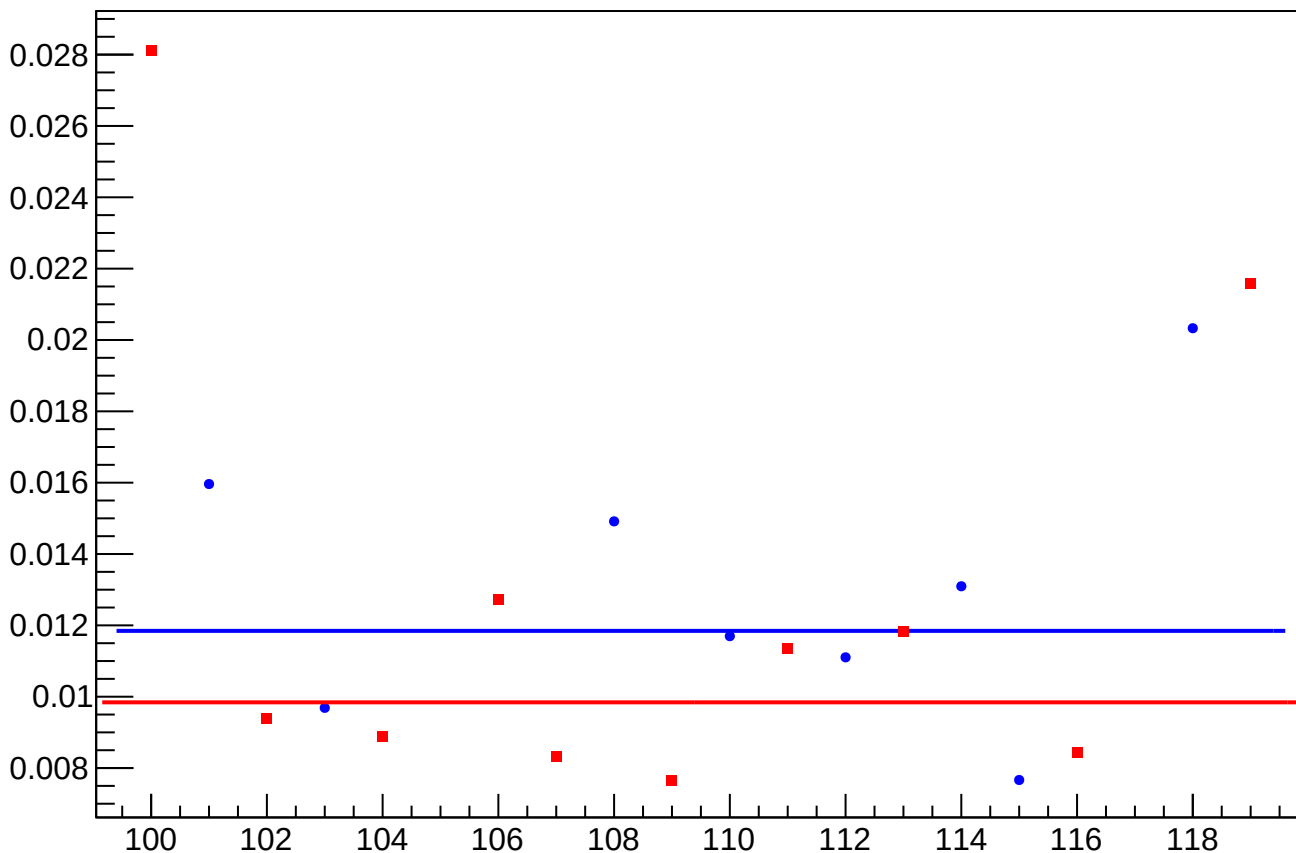
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.8/17

- sign 0.000 $\pm$ 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  $\chi^2/\text{NDF}$ : 455530.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 595897.9/9

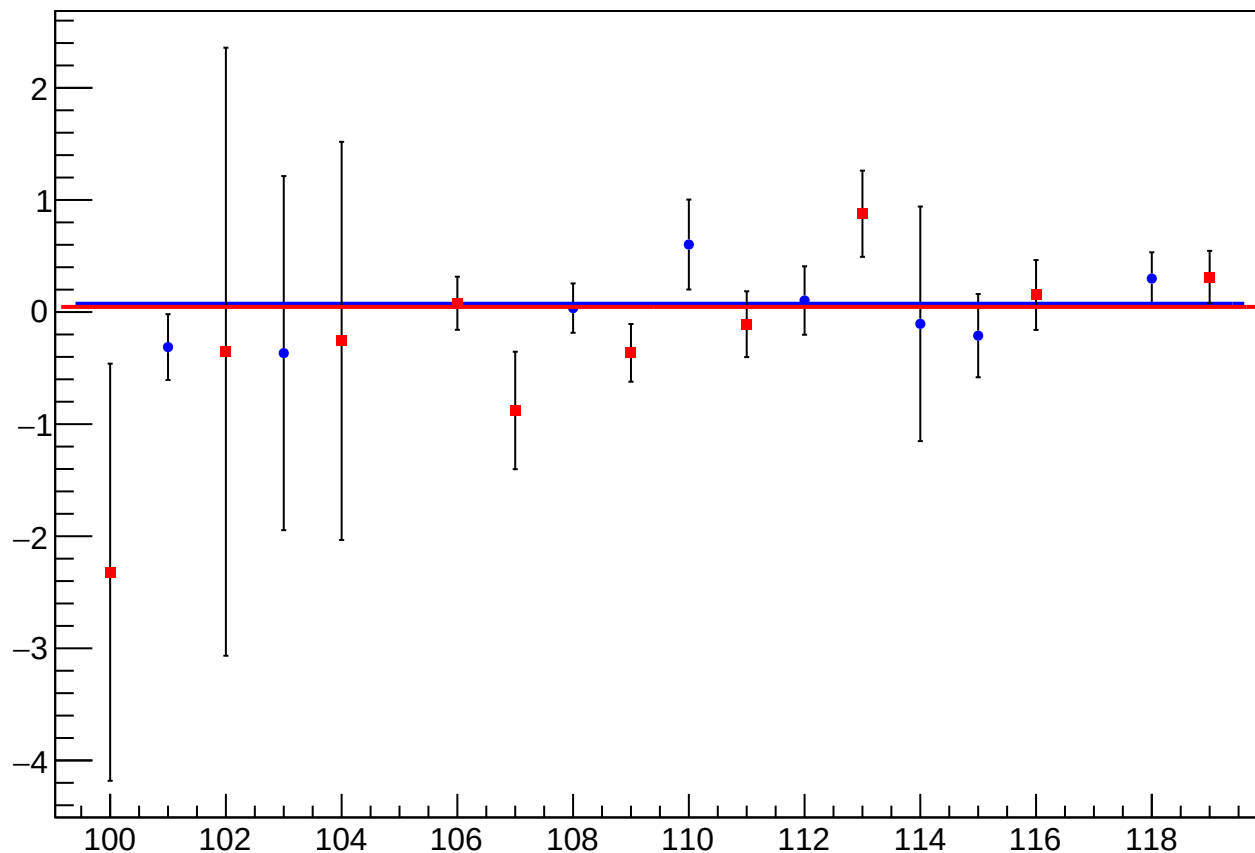
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 1162490.7/17

- 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: 0.074 $\pm$ 0.115  $\chi^2$ /NDF: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.046 $\pm$ 0.109  $\chi^2$ /NDF: 13.7/9

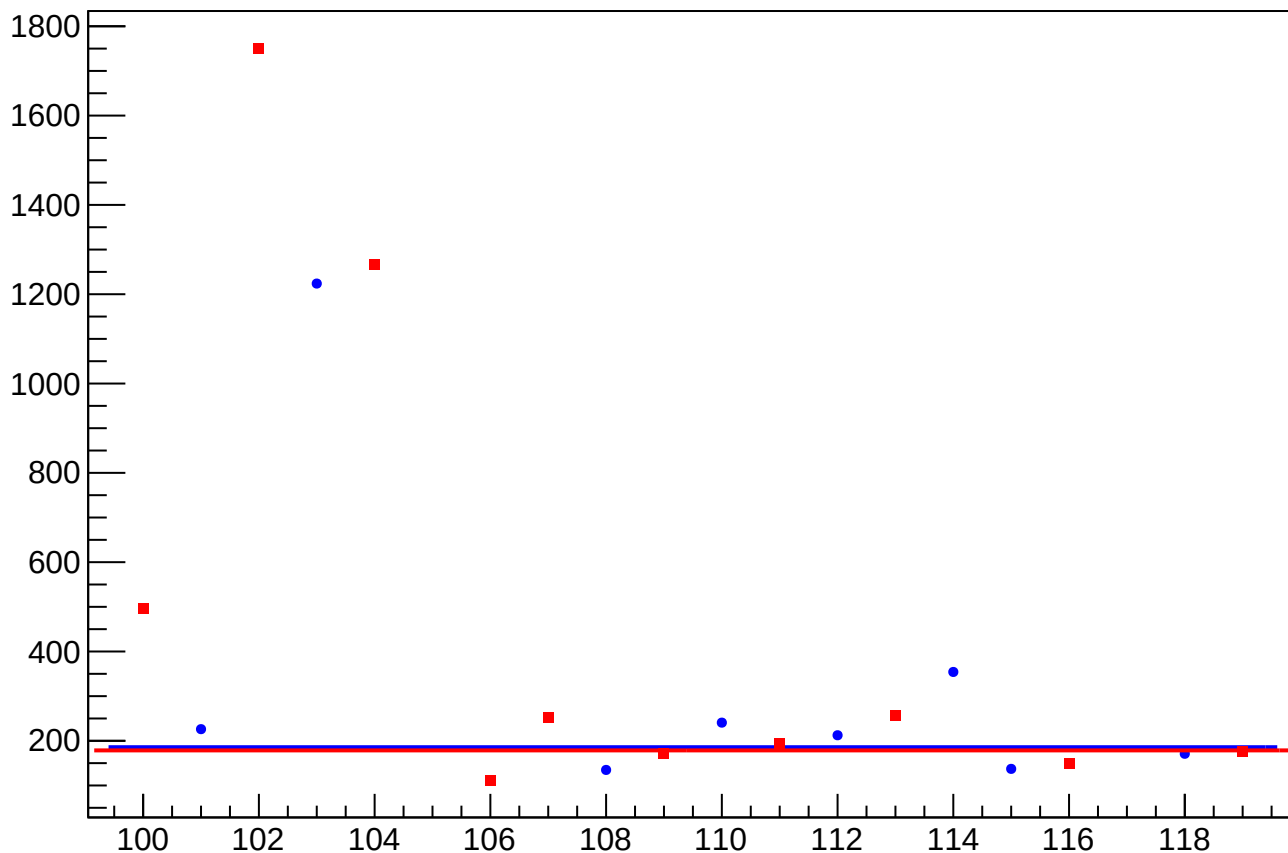
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.059 $\pm$ 0.079  $\chi^2$ /NDF: 18.9/17

- 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: 185.667+/-0.081  $\chi^2/\text{NDF}$ : 1155452.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 178.546+/-0.077  $\chi^2/\text{NDF}$ : 1791277.7/9

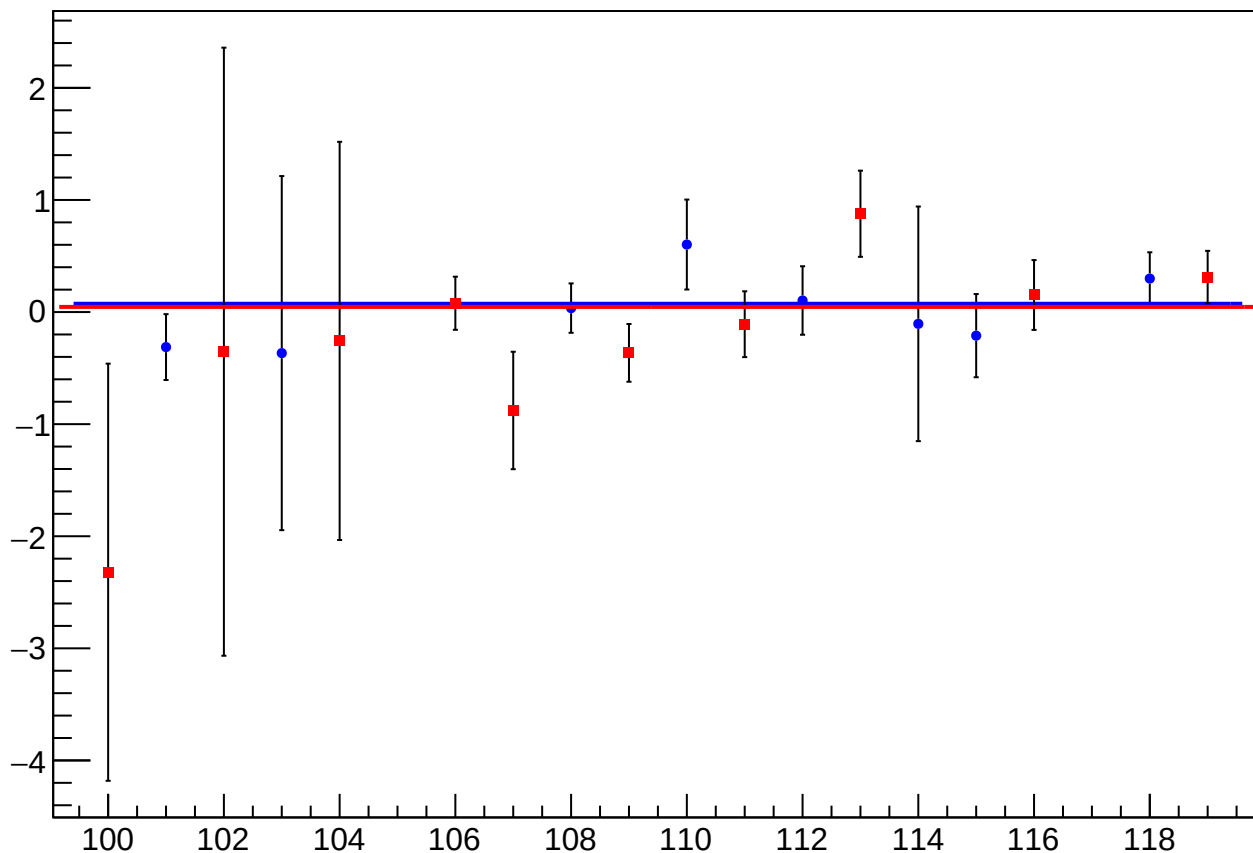
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 181.921+/-0.056  $\chi^2/\text{NDF}$ : 2950779.4/17

- 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: 0.074 $\pm$ 0.115  $\chi^2$ /NDF: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.046 $\pm$ 0.109  $\chi^2$ /NDF: 13.7/9

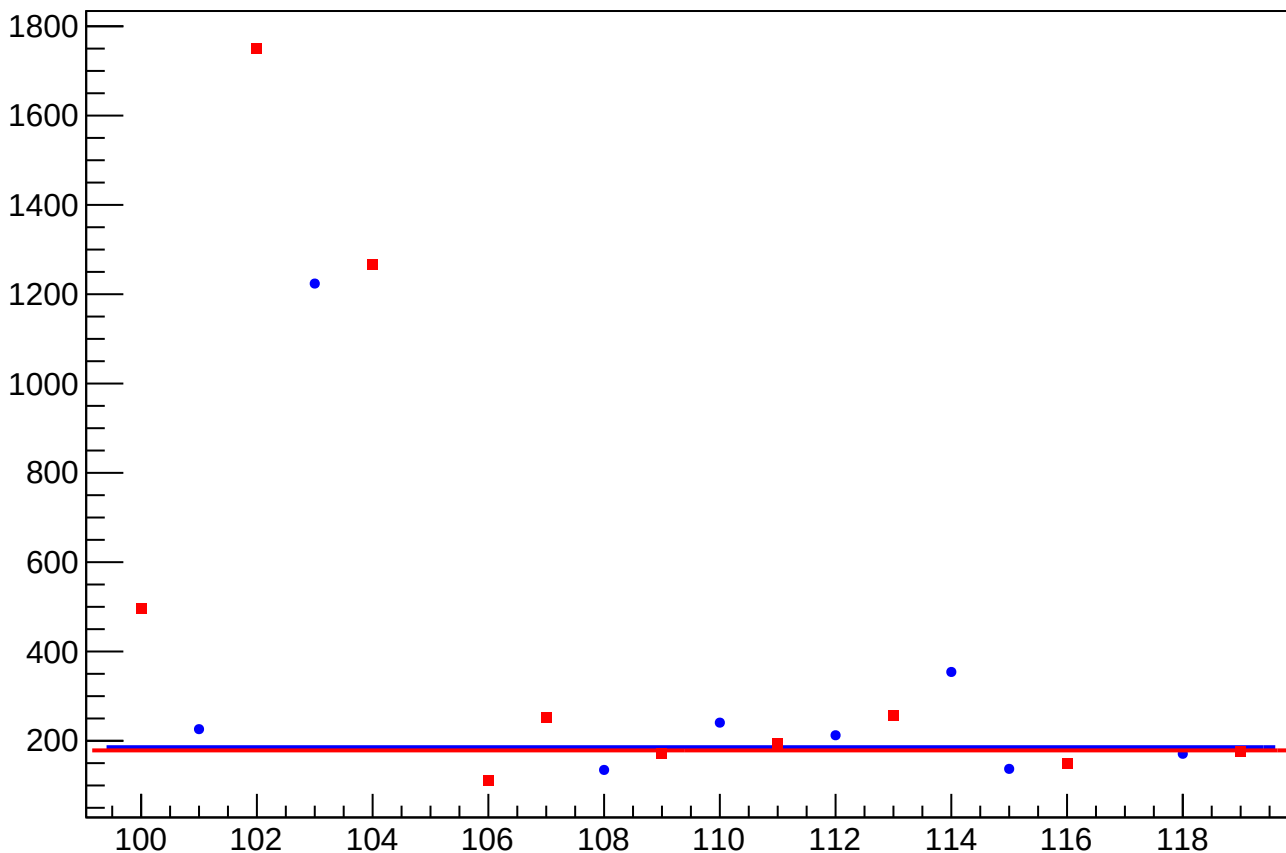
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.059 $\pm$ 0.079  $\chi^2$ /NDF: 18.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 185.667+/-0.081  $\chi^2/\text{NDF}$ : 1155452.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 178.546+/-0.077  $\chi^2/\text{NDF}$ : 1791277.7/9

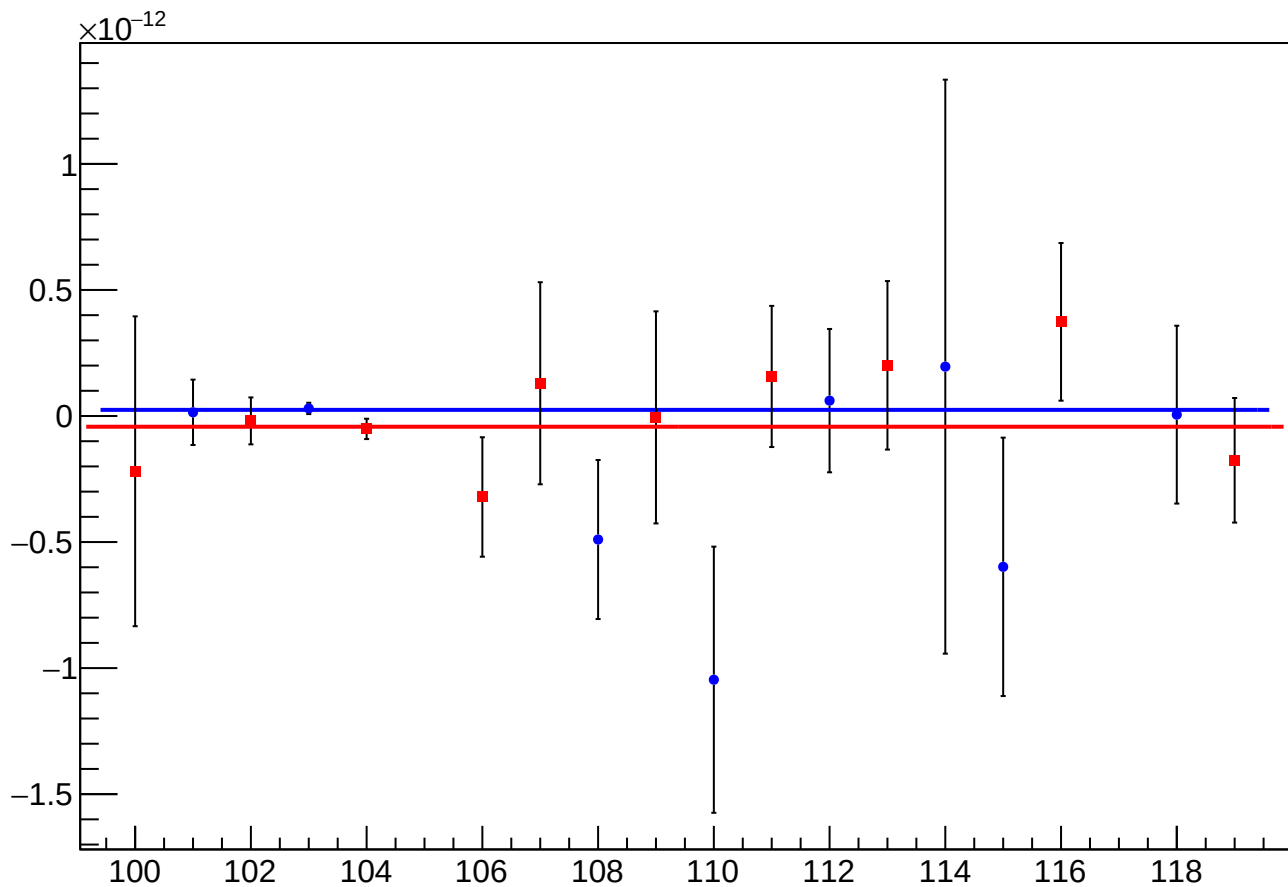
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 181.921+/-0.056  $\chi^2/\text{NDF}$ : 2950779.4/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 8.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.9/9

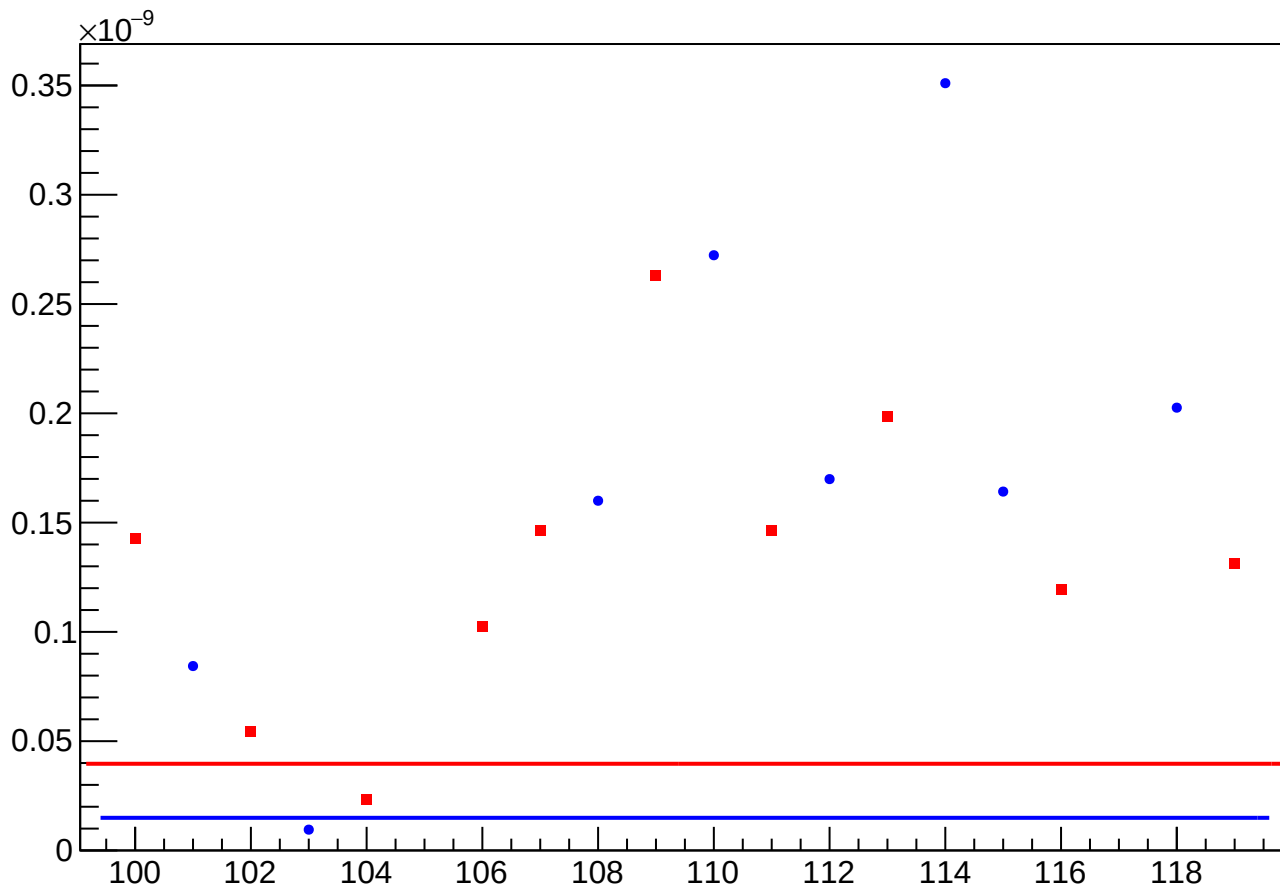
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.8/17

- sign 0.000+/-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  $\chi^2/\text{NDF}$ : 3093555.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2435752.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

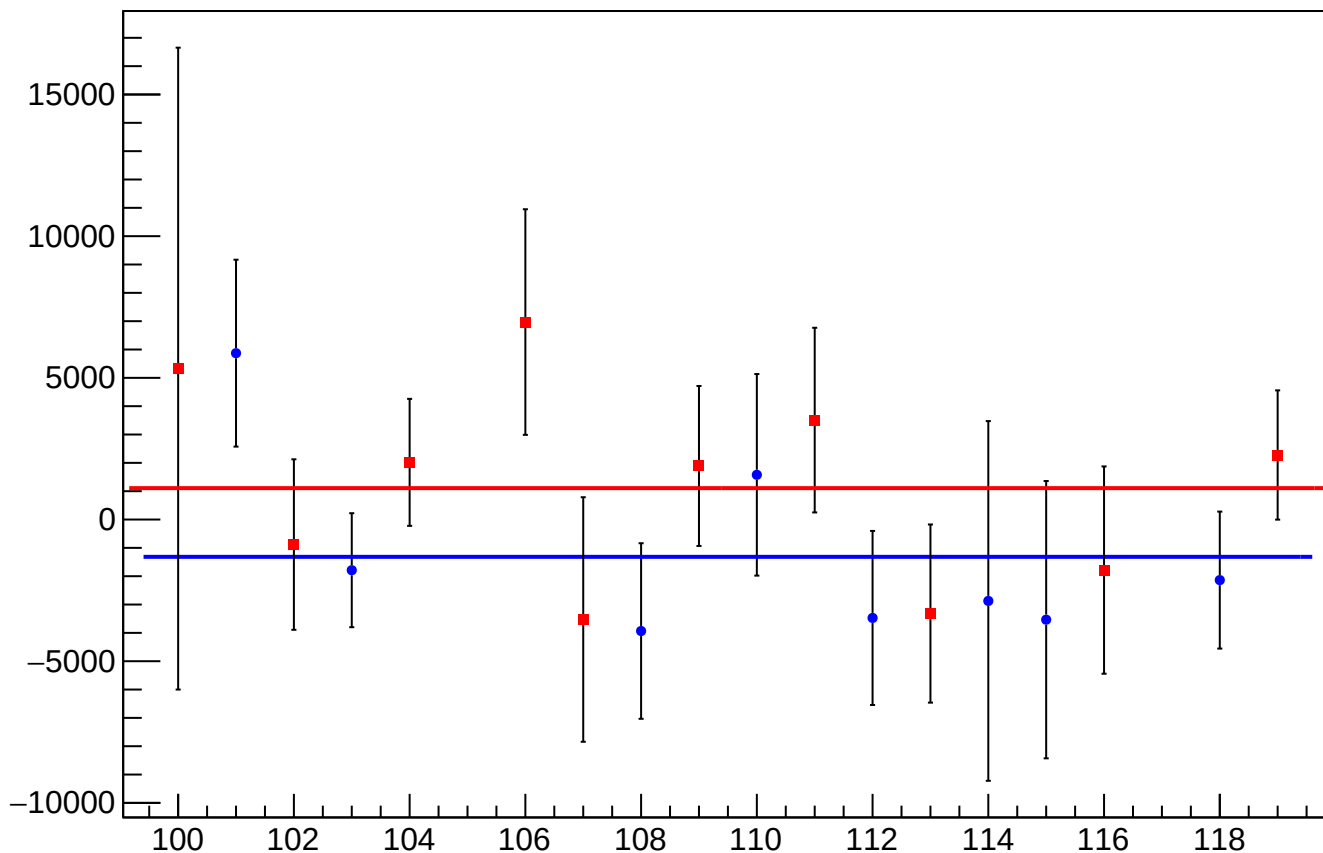
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6243636.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -1316.654 $\pm$ 1074.598  $\chi^2$ /NDF: 7.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1107.948 $\pm$ 989.143  $\chi^2$ /NDF: 7.6/9

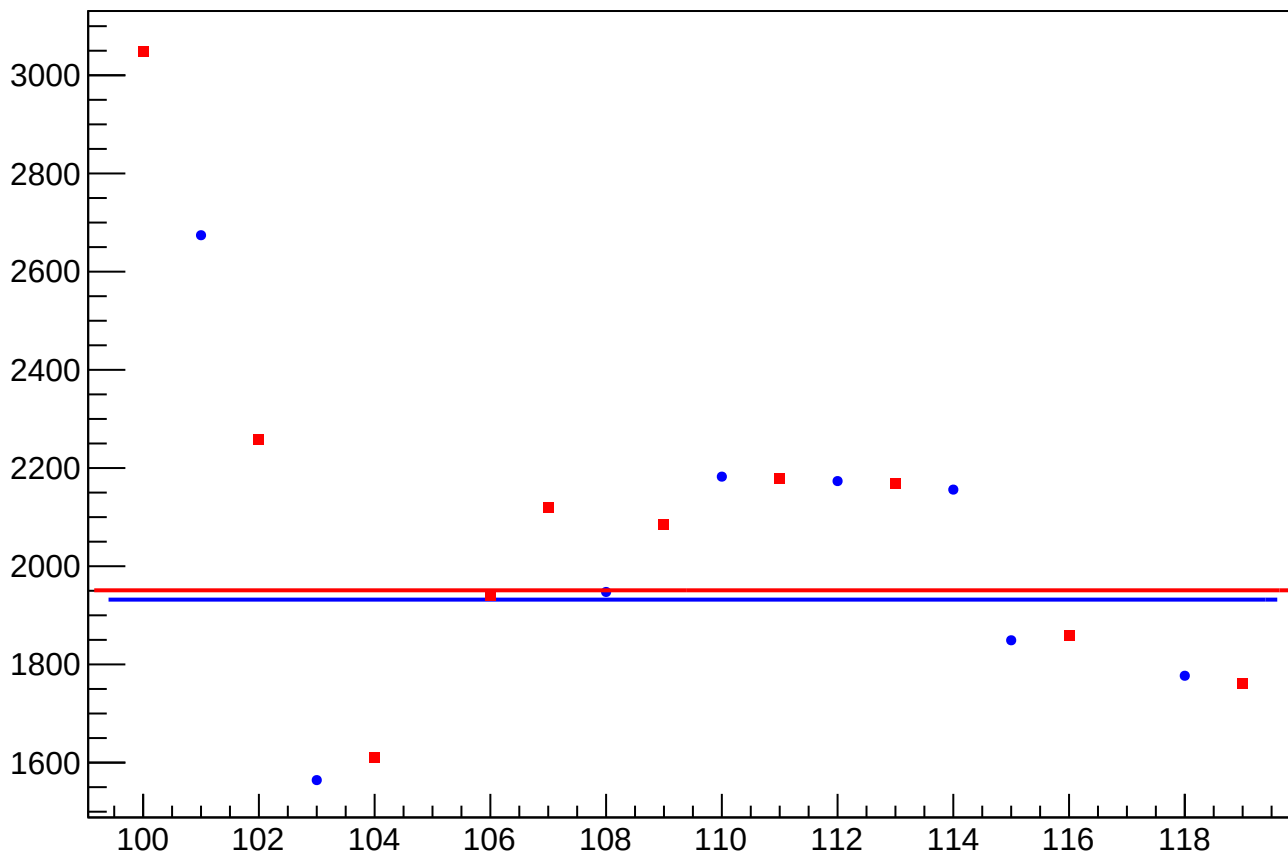
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -4.127 $\pm$ 727.768  $\chi^2$ /NDF: 17.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1931.965 $\pm$ 0.760  $\chi^2$ /NDF: 201715.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1950.944 $\pm$ 0.696  $\chi^2$ /NDF: 128068.0/9

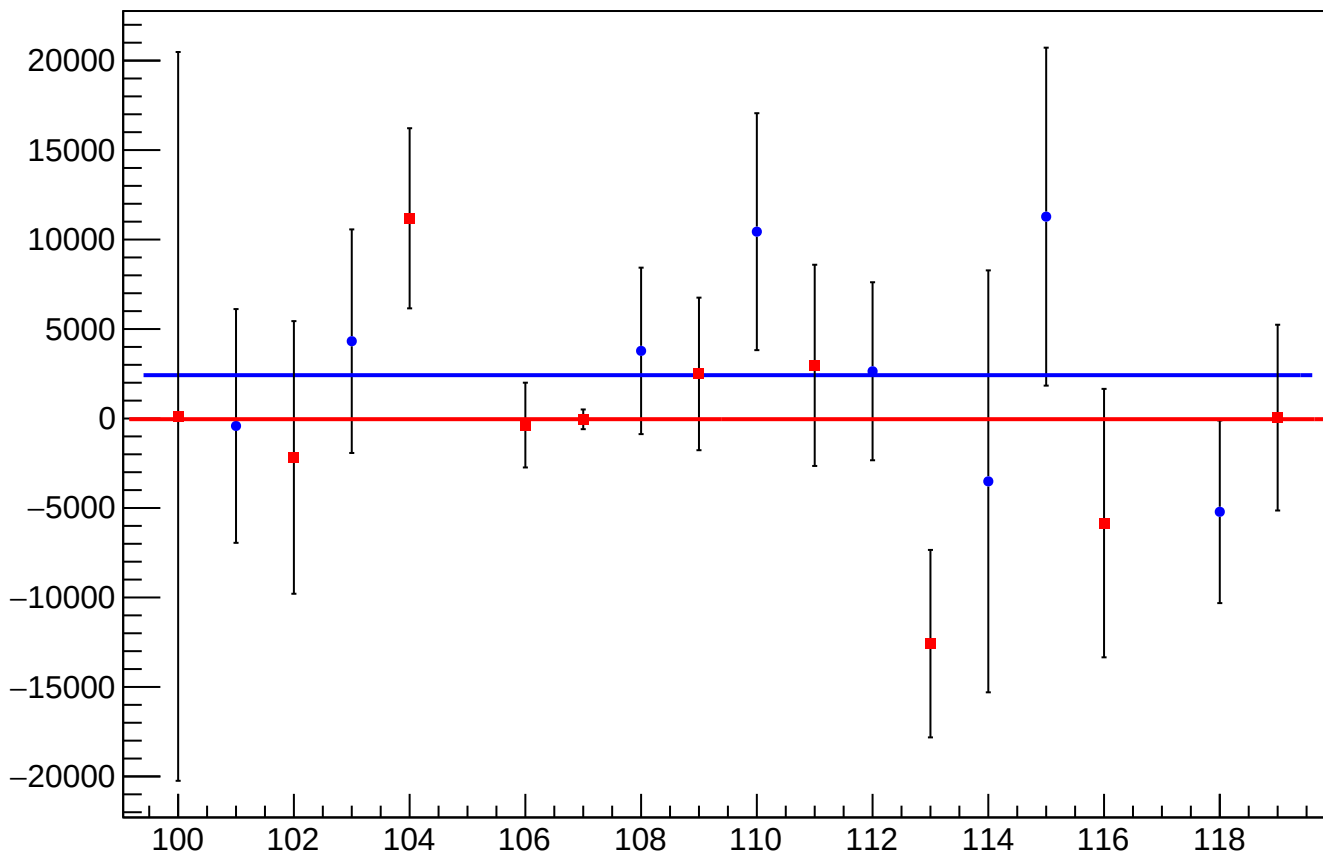
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1942.282 $\pm$ 0.513  $\chi^2$ /NDF: 330122.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_reg\_correction\_mean vs Slug



Right In: 2422.118 $\pm$ 2154.739  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -37.107 $\pm$ 518.727  $\chi^2$ /NDF: 12.0/9

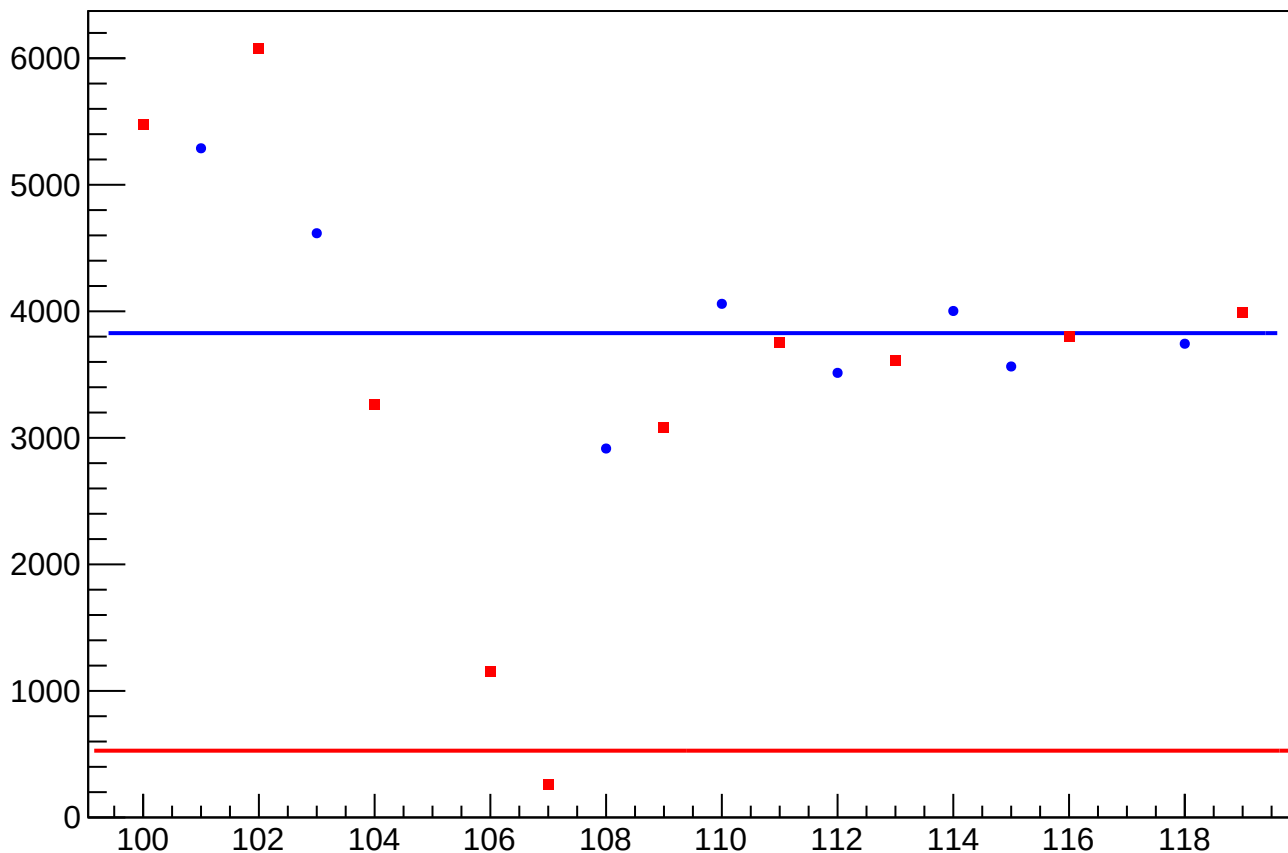
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 97.609 $\pm$ 504.319  $\chi^2$ /NDF: 18.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_reg\_correction\_rms vs Slug



Right In: 3827.597 $\pm$ 1.524  $\chi^2$ /NDF: 221860.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 527.715 $\pm$ 0.367  $\chi^2$ /NDF: 5711508.1/9

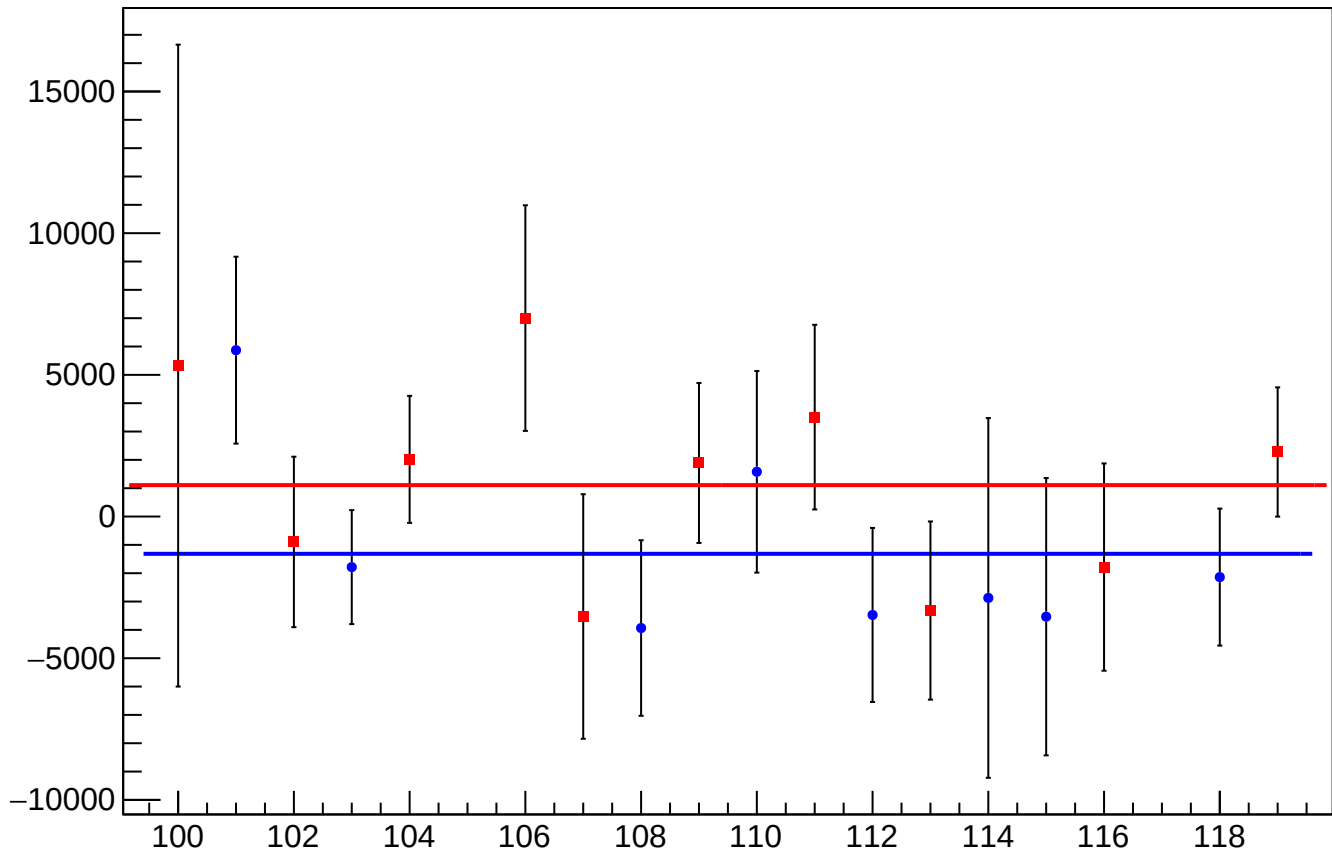
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 708.482 $\pm$ 0.357  $\chi^2$ /NDF: 10367113.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -1315.606 $\pm$ 1074.599  $\chi^2$ /NDF: 7.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1108.747 $\pm$ 989.148  $\chi^2$ /NDF: 7.6/9

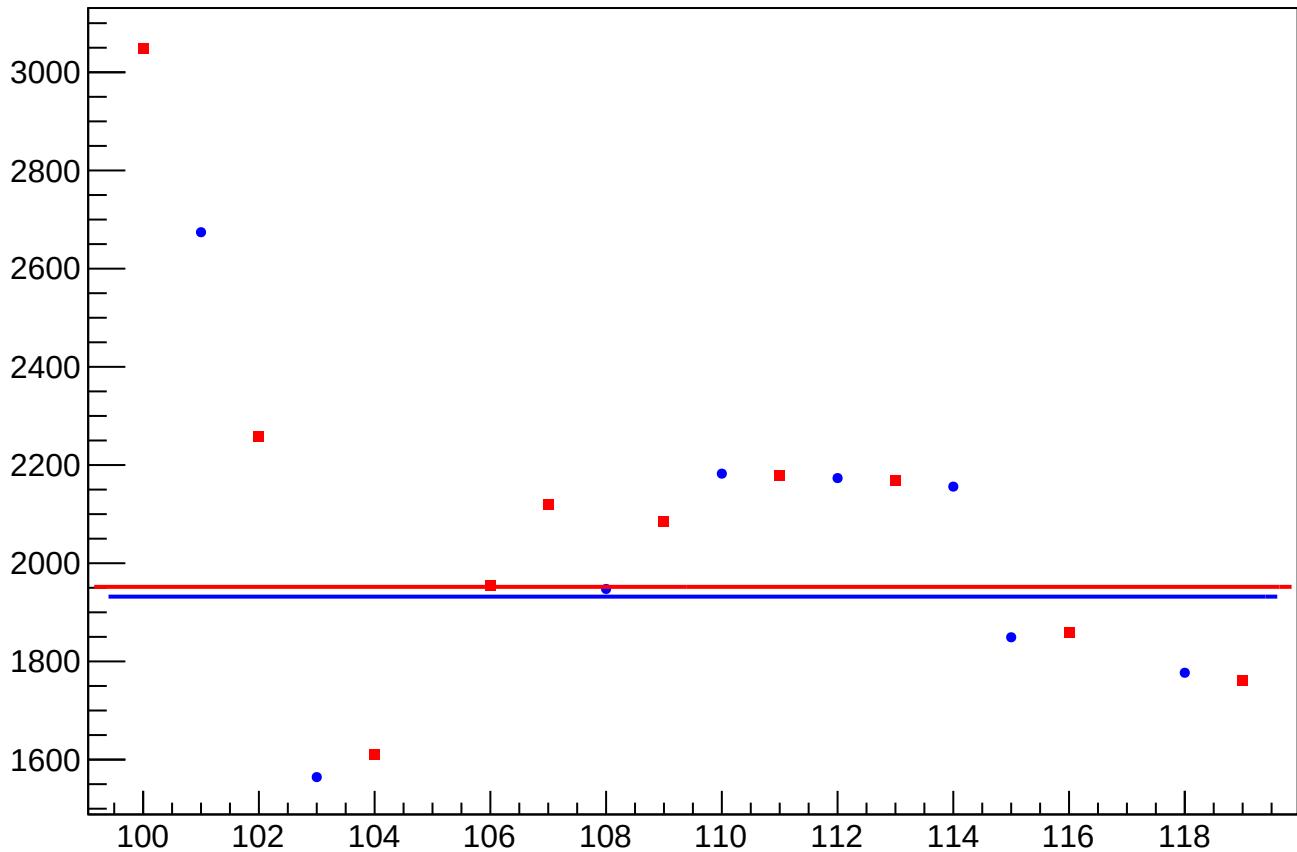
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.219 $\pm$ 727.770  $\chi^2$ /NDF: 17.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1931.966 $\pm$ 0.760  $\chi^2$ /NDF: 201713.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1951.895 $\pm$ 0.697  $\chi^2$ /NDF: 128052.7/9

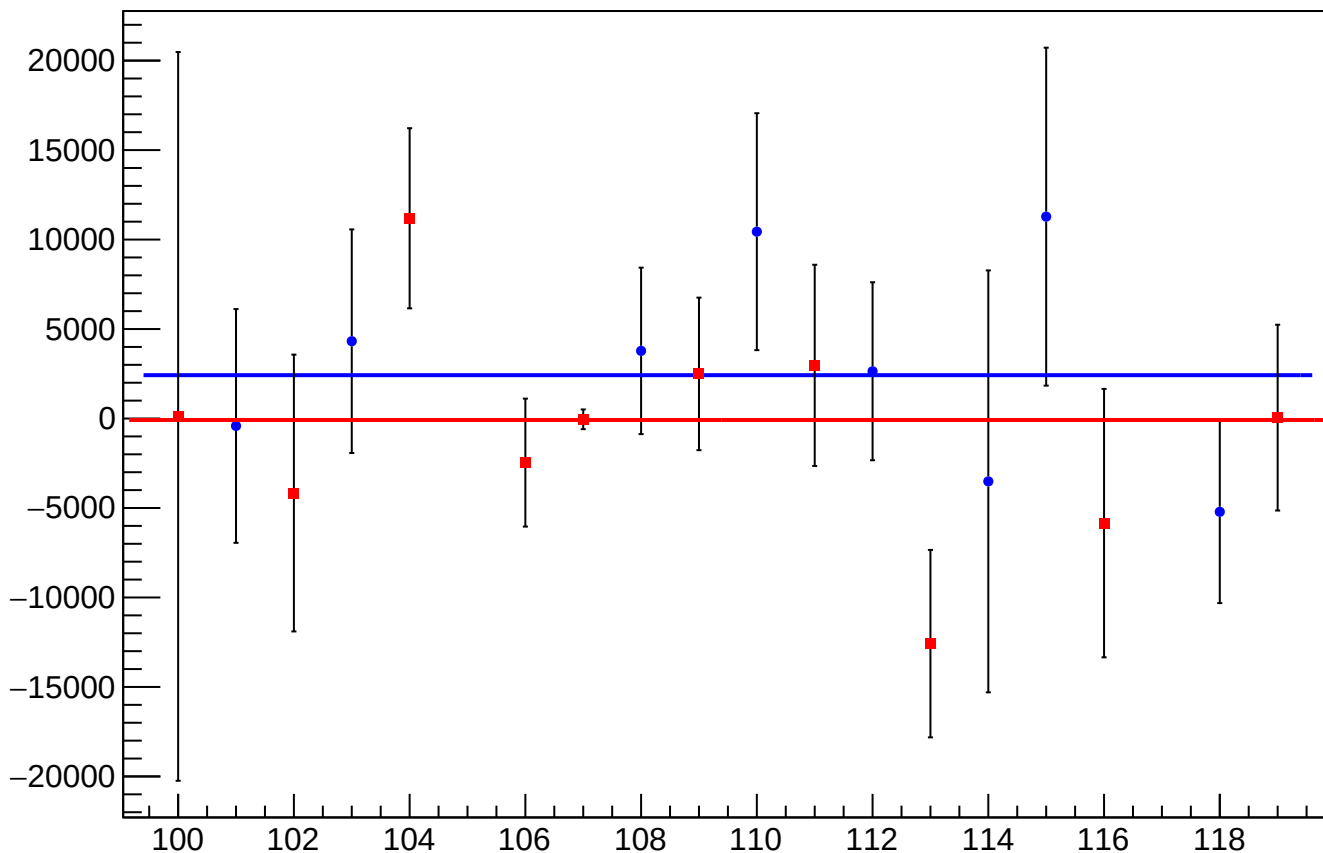
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1942.795 $\pm$ 0.513  $\chi^2$ /NDF: 330140.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_cor\_correction\_mean vs Slug



Right In: 2422.064+/-2154.757  $\chi^2/\text{NDF}$ : 5.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -81.640+/-525.855  $\chi^2/\text{NDF}$ : 12.7/9

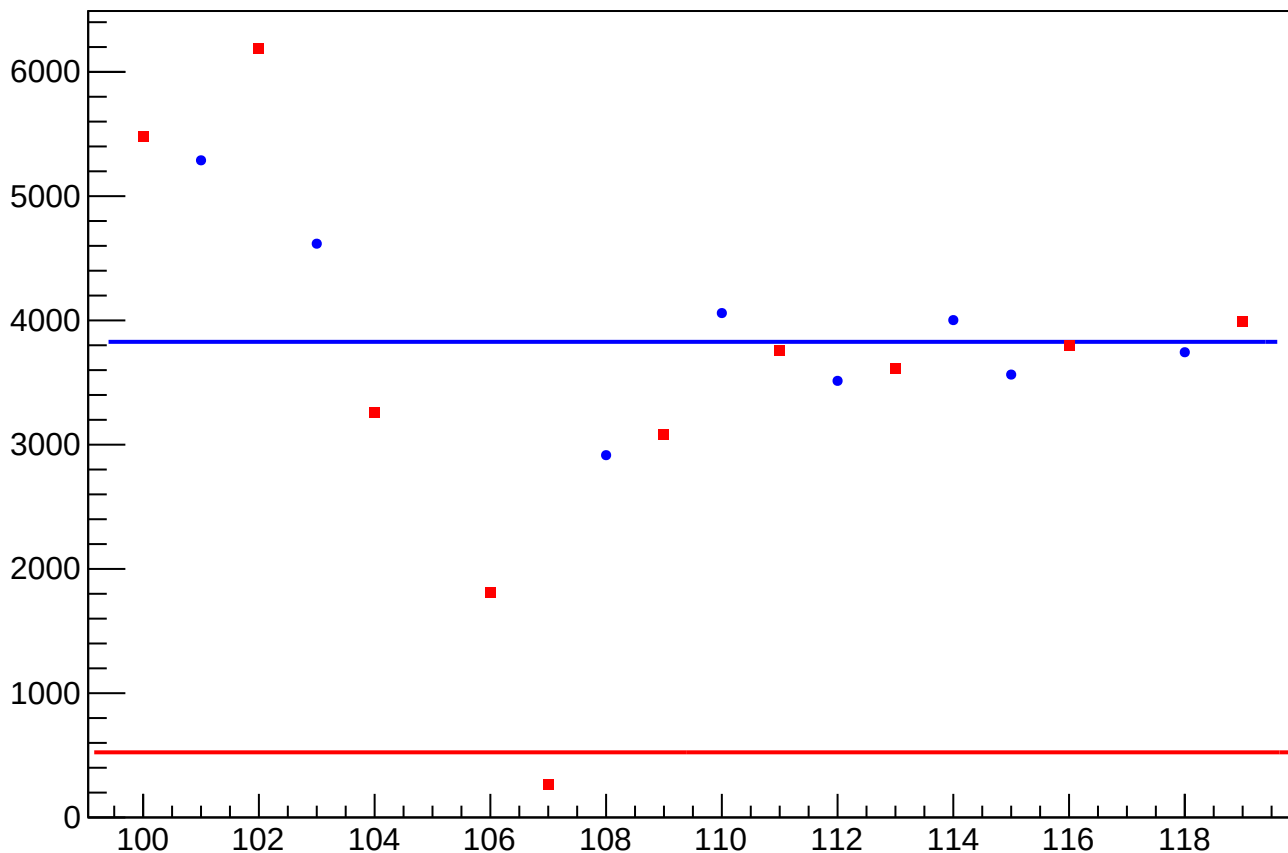
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 59.092+/-510.862  $\chi^2/\text{NDF}$ : 19.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_cor\_correction\_rms vs Slug



Right In: 3827.617+/-1.524  $\chi^2/\text{NDF}$ : 221882.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 524.118+/-0.372  $\chi^2/\text{NDF}$ : 5837135.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

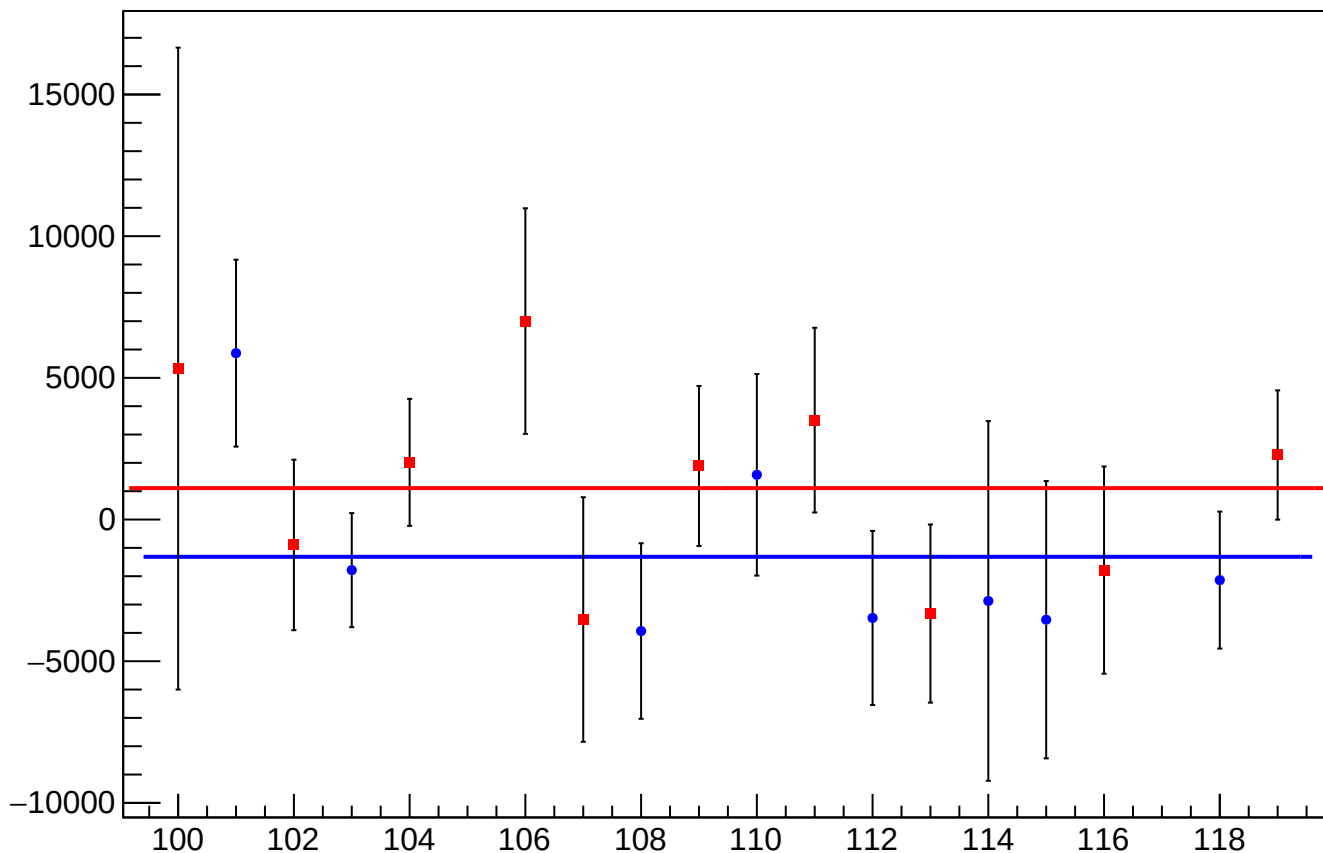
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 709.806+/-0.361  $\chi^2/\text{NDF}$ : 10495690.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -1315.606 $\pm$ 1074.599  $\chi^2$ /NDF: 7.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1108.747 $\pm$ 989.148  $\chi^2$ /NDF: 7.6/9

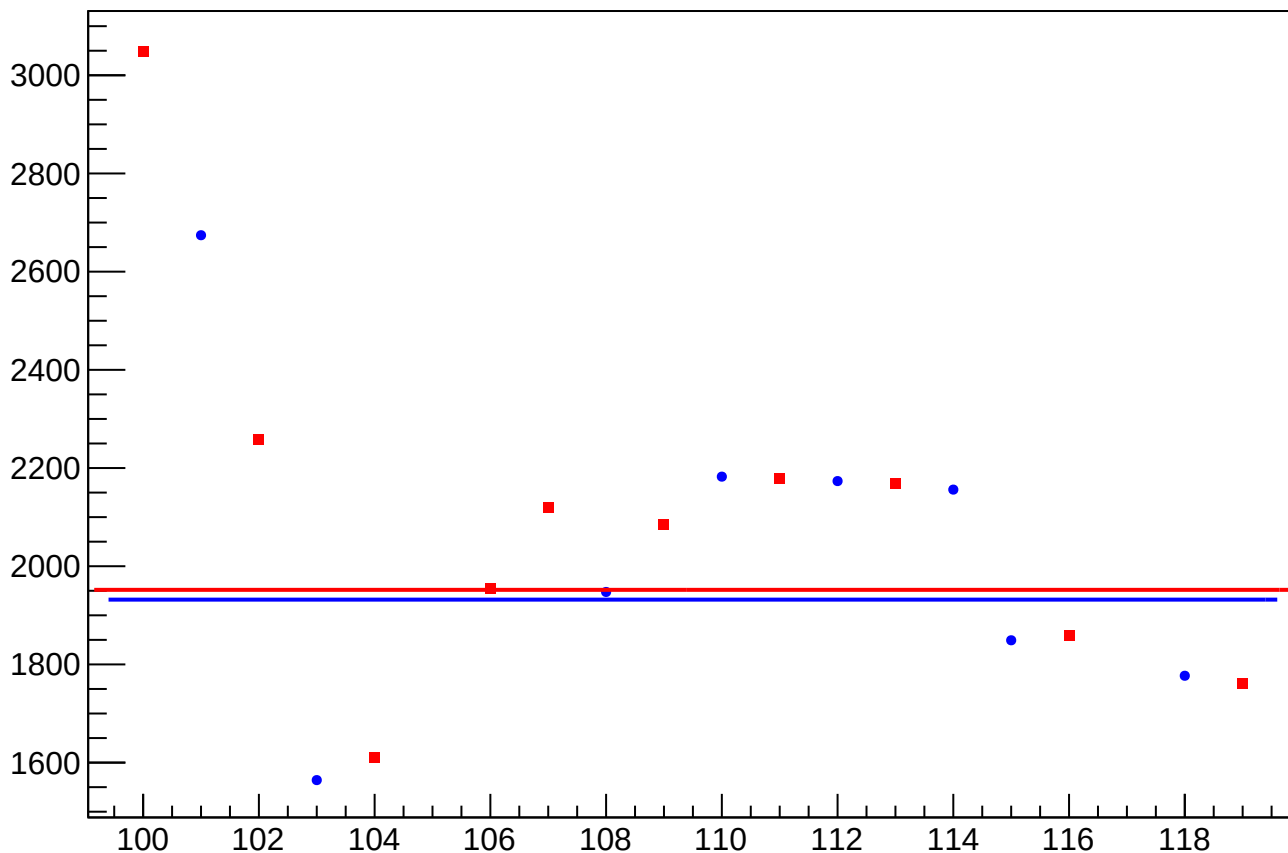
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.219 $\pm$ 727.770  $\chi^2$ /NDF: 17.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1931.966 $\pm$ 0.760  $\chi^2$ /NDF: 201713.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1951.895 $\pm$ 0.697  $\chi^2$ /NDF: 128052.7/9

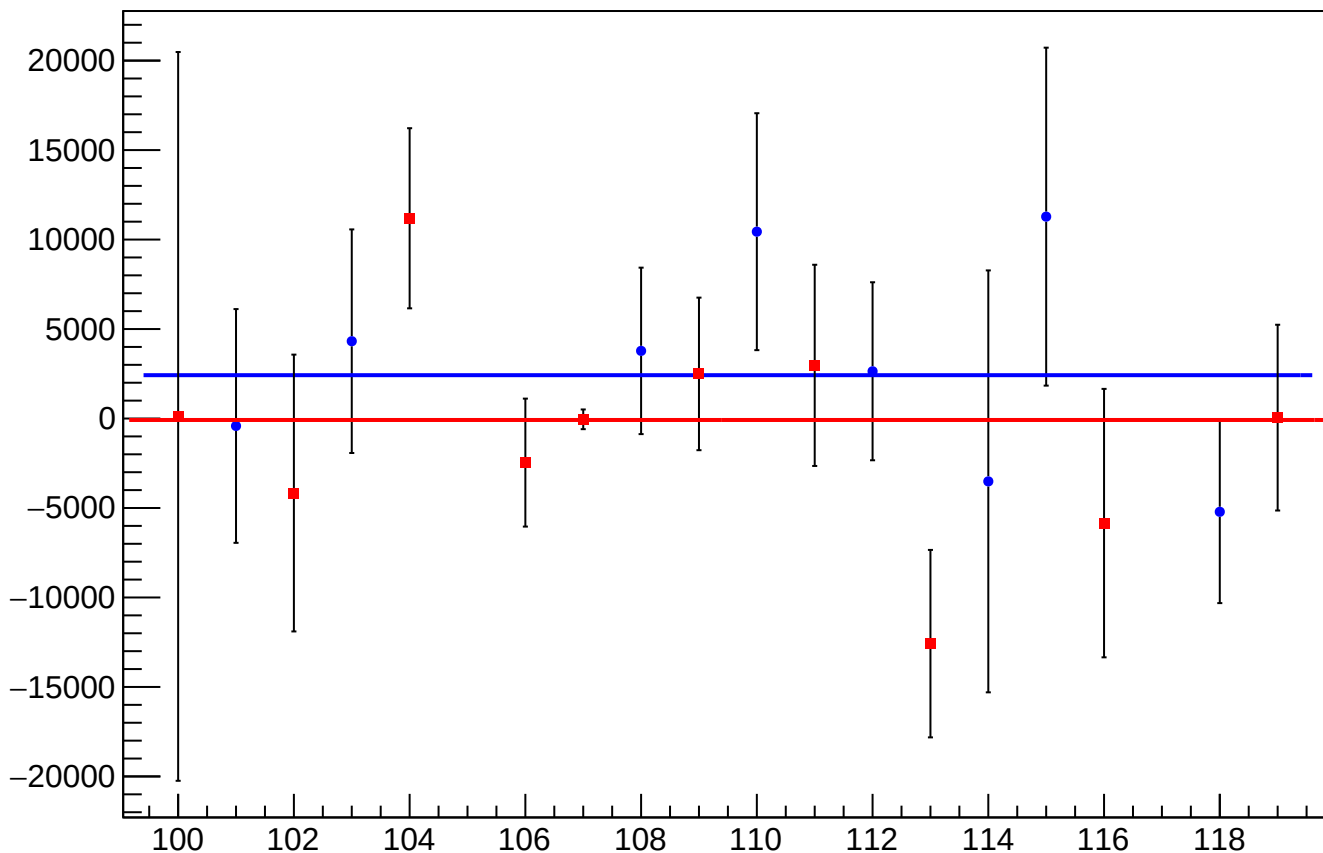
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1942.795 $\pm$ 0.513  $\chi^2$ /NDF: 330140.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 2422.064+/-2154.757  $\chi^2/\text{NDF}$ : 5.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -81.640+/-525.855  $\chi^2/\text{NDF}$ : 12.7/9

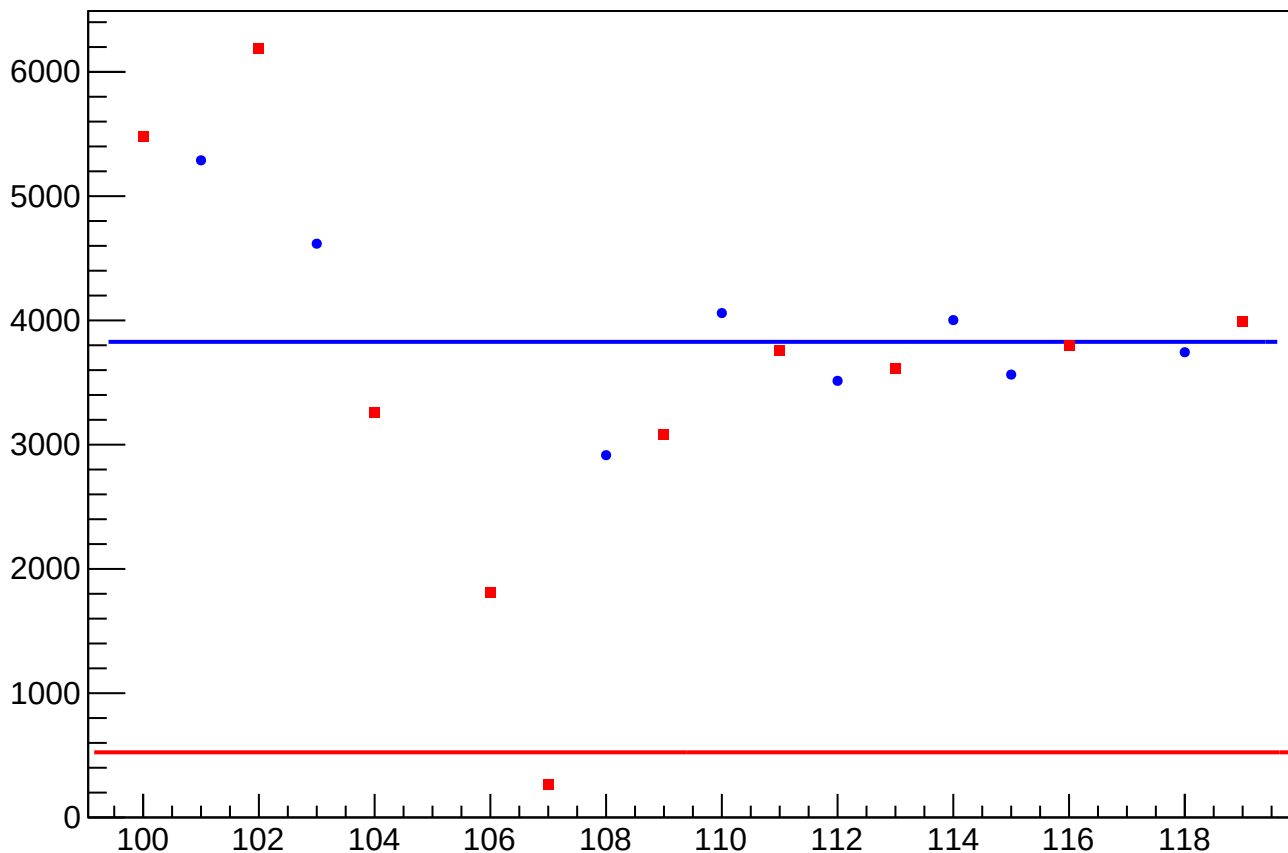
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 59.092+/-510.862  $\chi^2/\text{NDF}$ : 19.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3827.617+/-1.524  $\chi^2/\text{NDF}$ : 221882.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 524.118+/-0.372  $\chi^2/\text{NDF}$ : 5837135.9/9

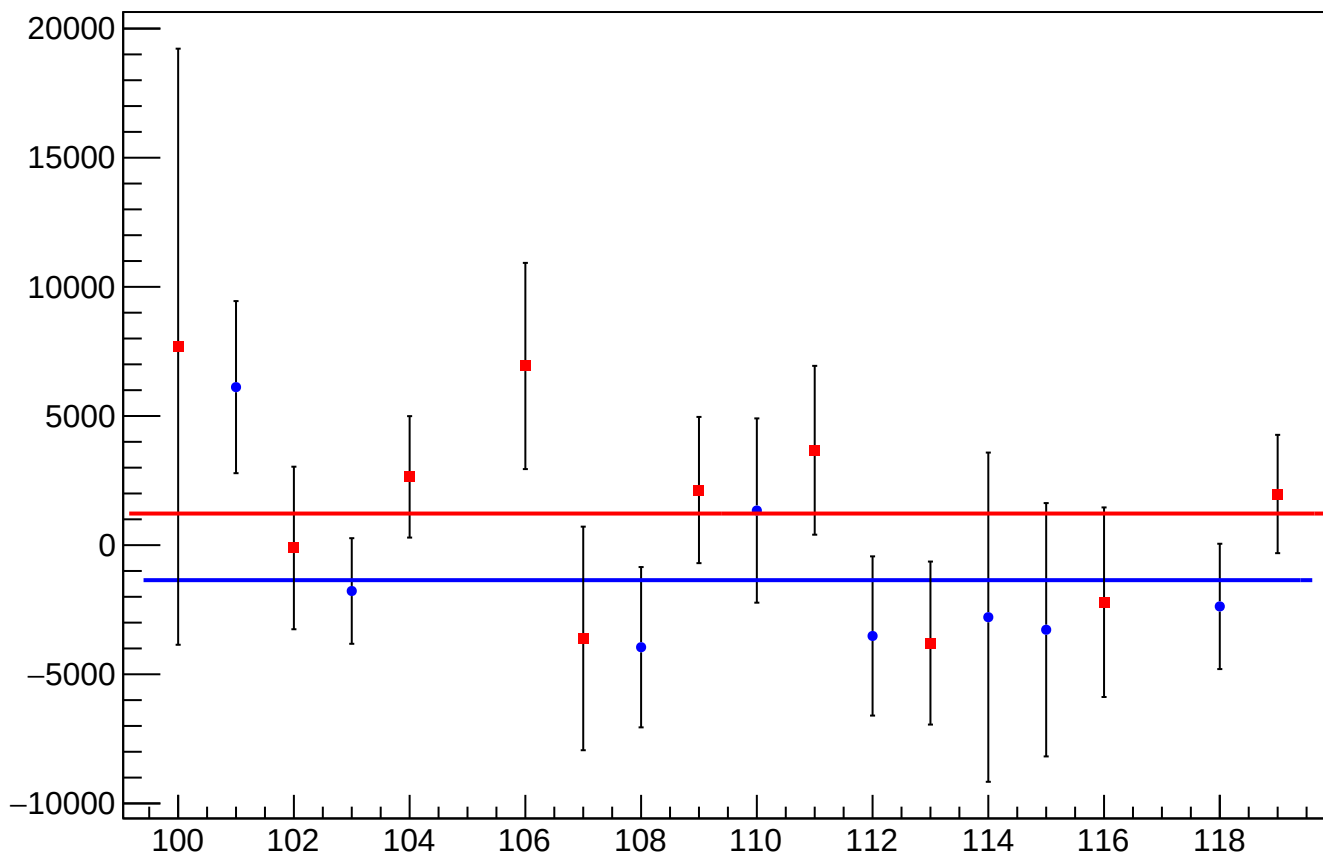
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 709.806+/-0.361  $\chi^2/\text{NDF}$ : 10495690.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -1355.789 $\pm$ 1082.713  $\chi^2$ /NDF: 7.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1223.328 $\pm$ 1005.407  $\chi^2$ /NDF: 8.3/9

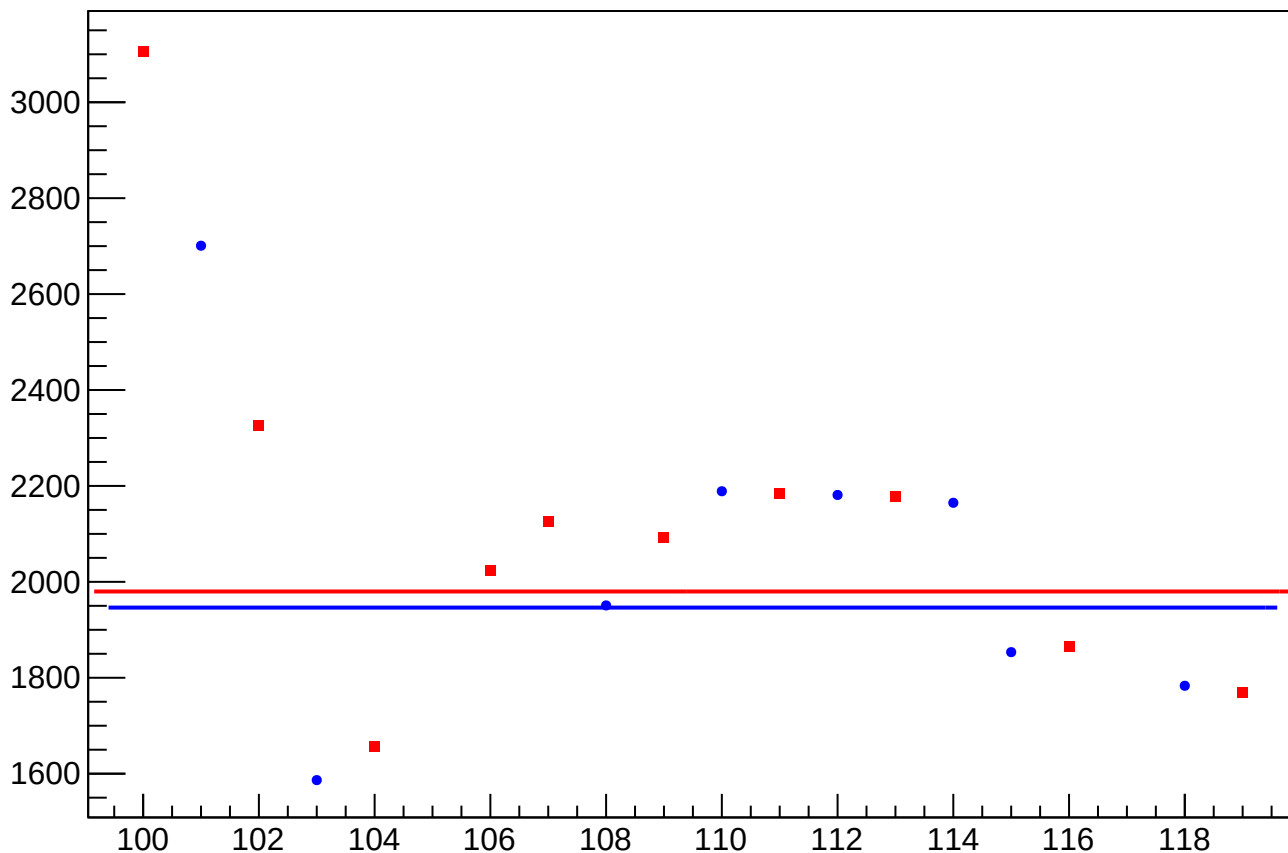
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 29.122 $\pm$ 736.745  $\chi^2$ /NDF: 18.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1946.333+/-0.766  $\chi^2/\text{NDF}$ : 197440.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1979.897+/-0.710  $\chi^2/\text{NDF}$ : 121293.7/9

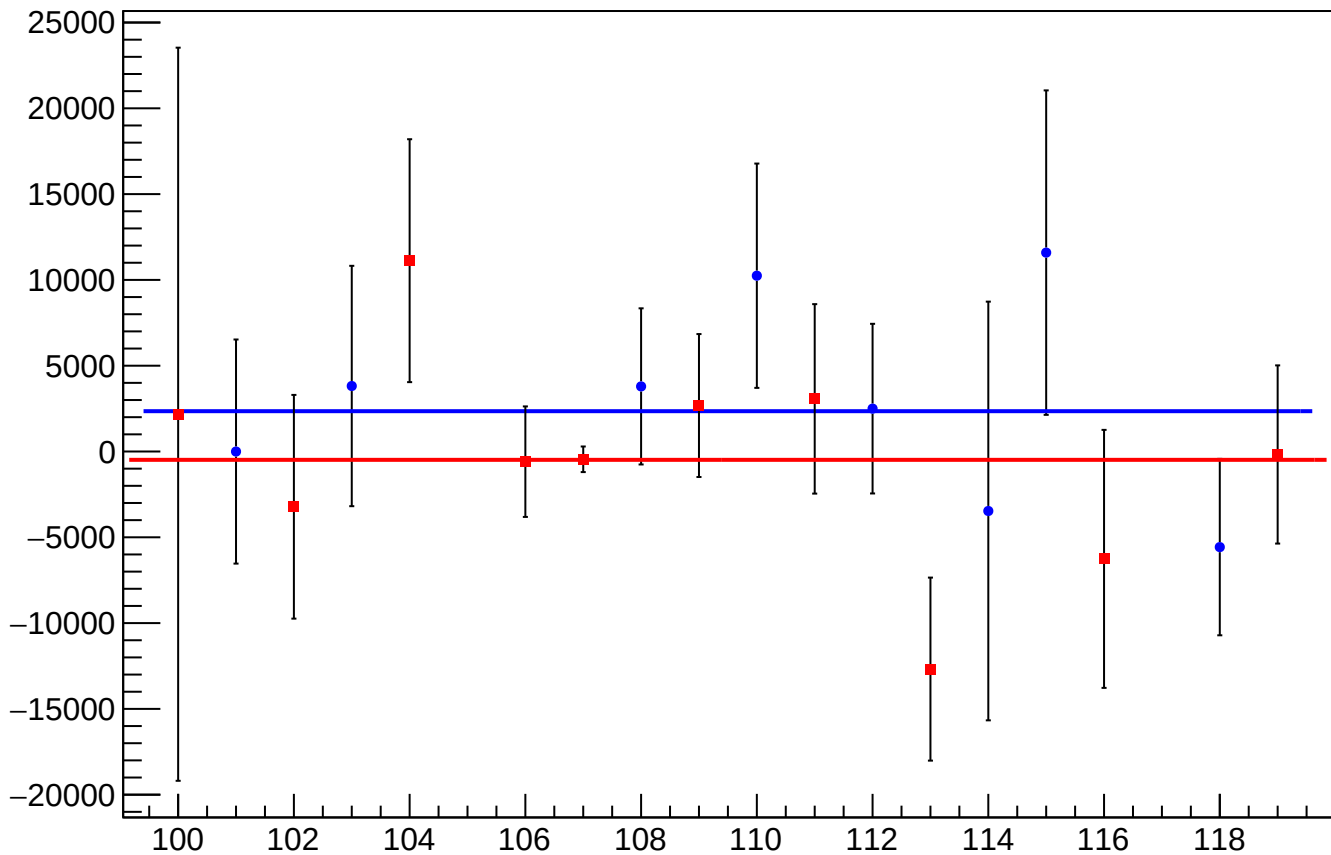
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1964.385+/-0.520  $\chi^2/\text{NDF}$ : 319768.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_dit\_correction\_mean vs Slug



Right In: 2349.481+/-2170.773  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -485.926+/-686.673  $\chi^2/\text{NDF}$ : 9.7/9

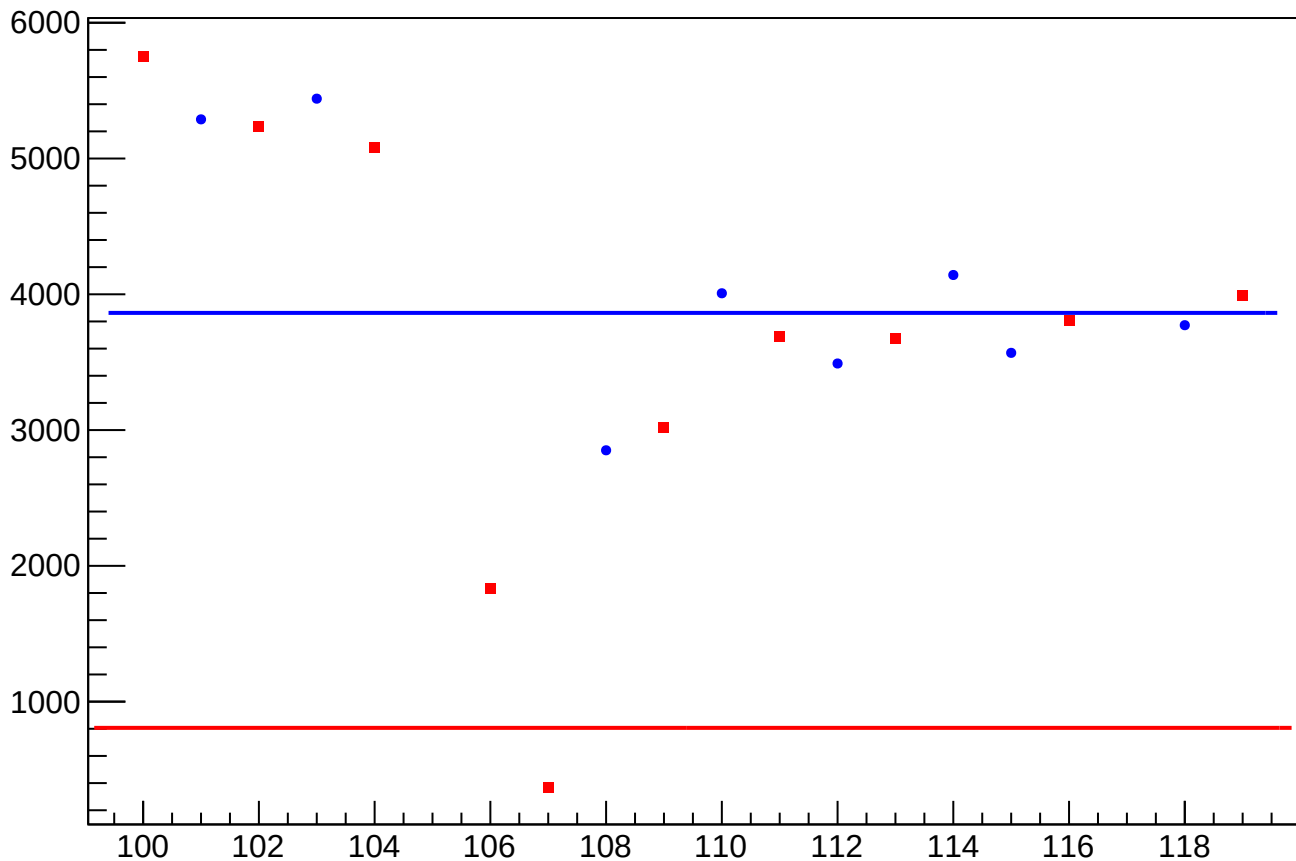
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -228.015+/-654.698  $\chi^2/\text{NDF}$ : 16.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_dit\_correction\_rms vs Slug



Right In: 3863.040+/-1.535  $\chi^2/\text{NDF}$ : 311650.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 806.802+/-0.486  $\chi^2/\text{NDF}$ : 5417185.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

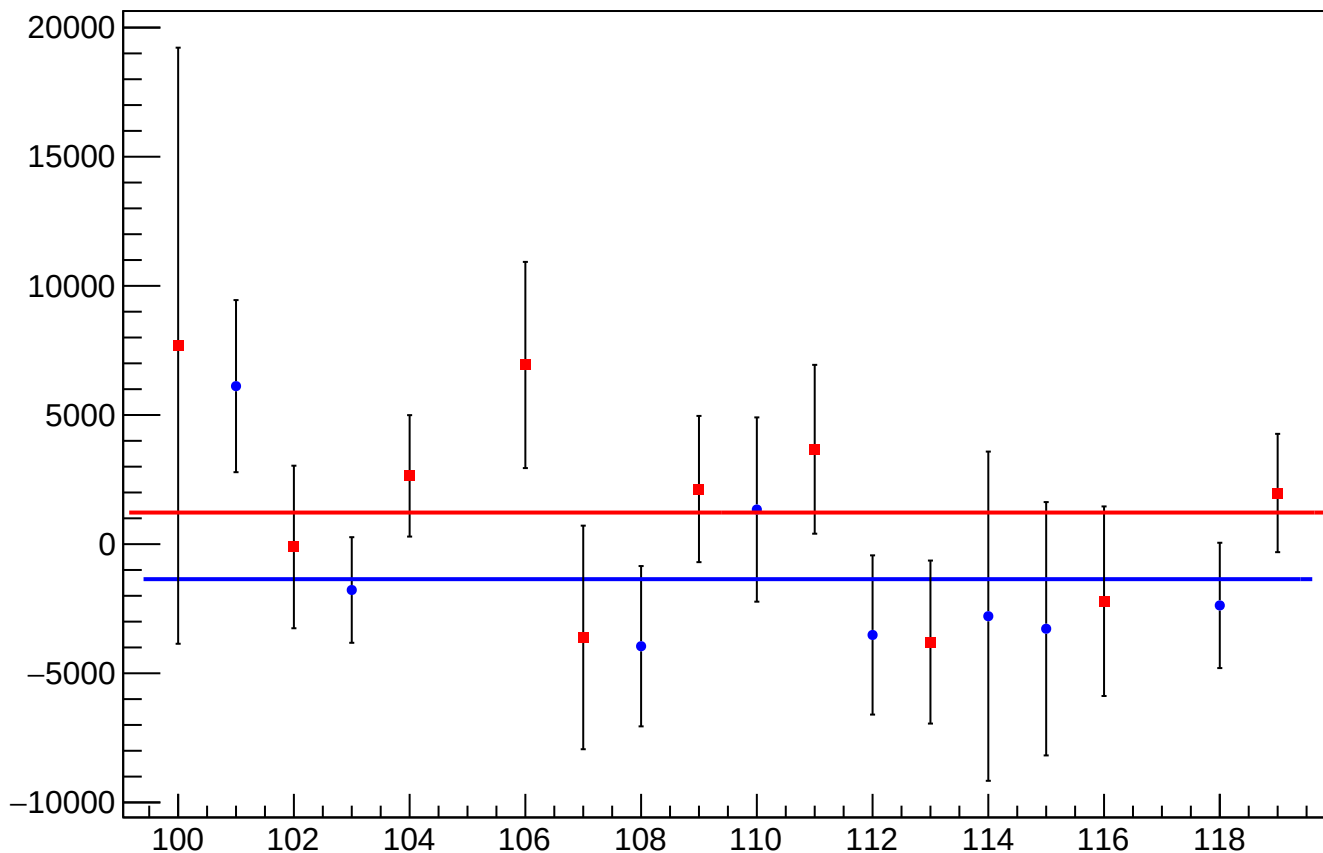
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1084.800+/-0.463  $\chi^2/\text{NDF}$ : 9332612.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -1355.786 $\pm$ 1082.713  $\chi^2$ /NDF: 7.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1223.335 $\pm$ 1005.407  $\chi^2$ /NDF: 8.3/9

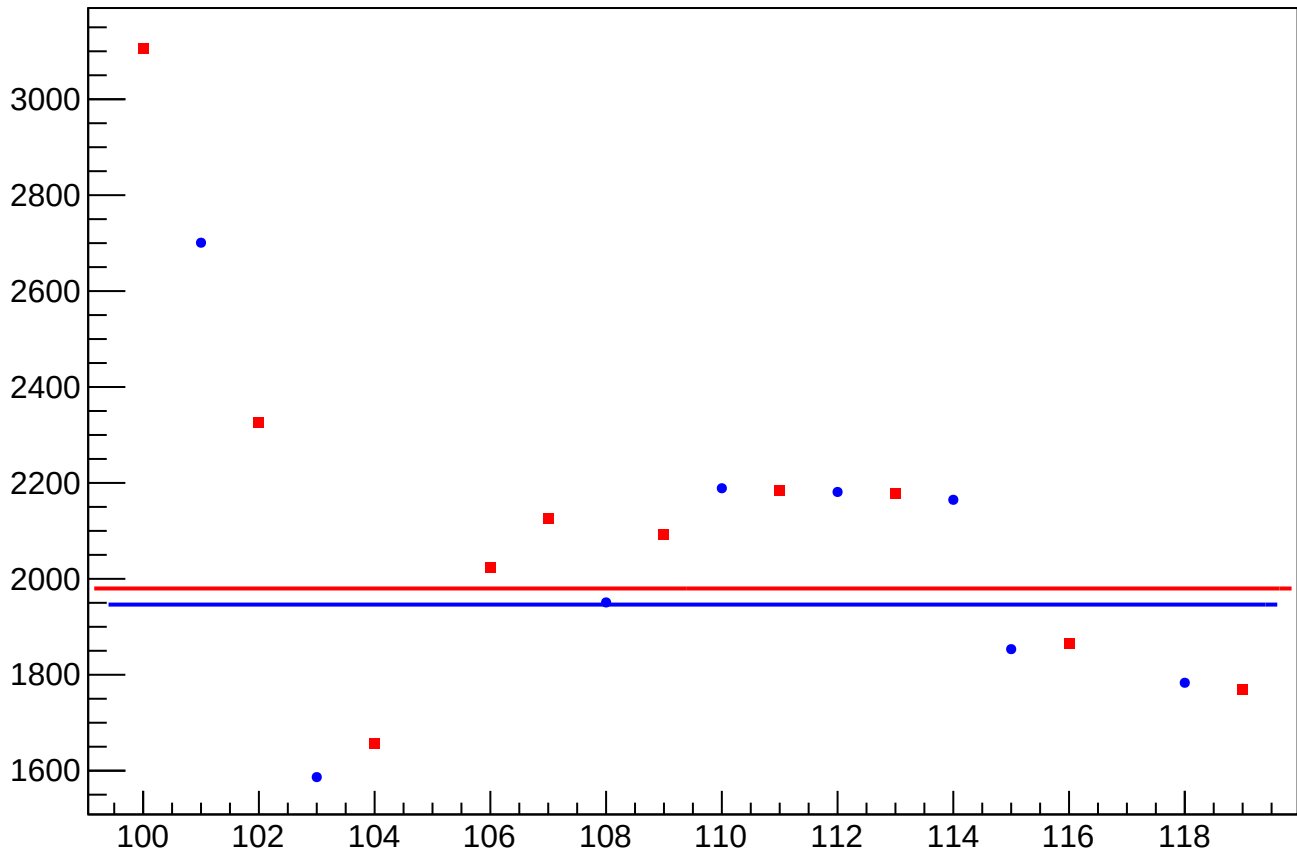
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 29.127 $\pm$ 736.745  $\chi^2$ /NDF: 18.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1946.333+/-0.766  $\chi^2/\text{NDF}$ : 197440.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1979.897+/-0.710  $\chi^2/\text{NDF}$ : 121293.7/9

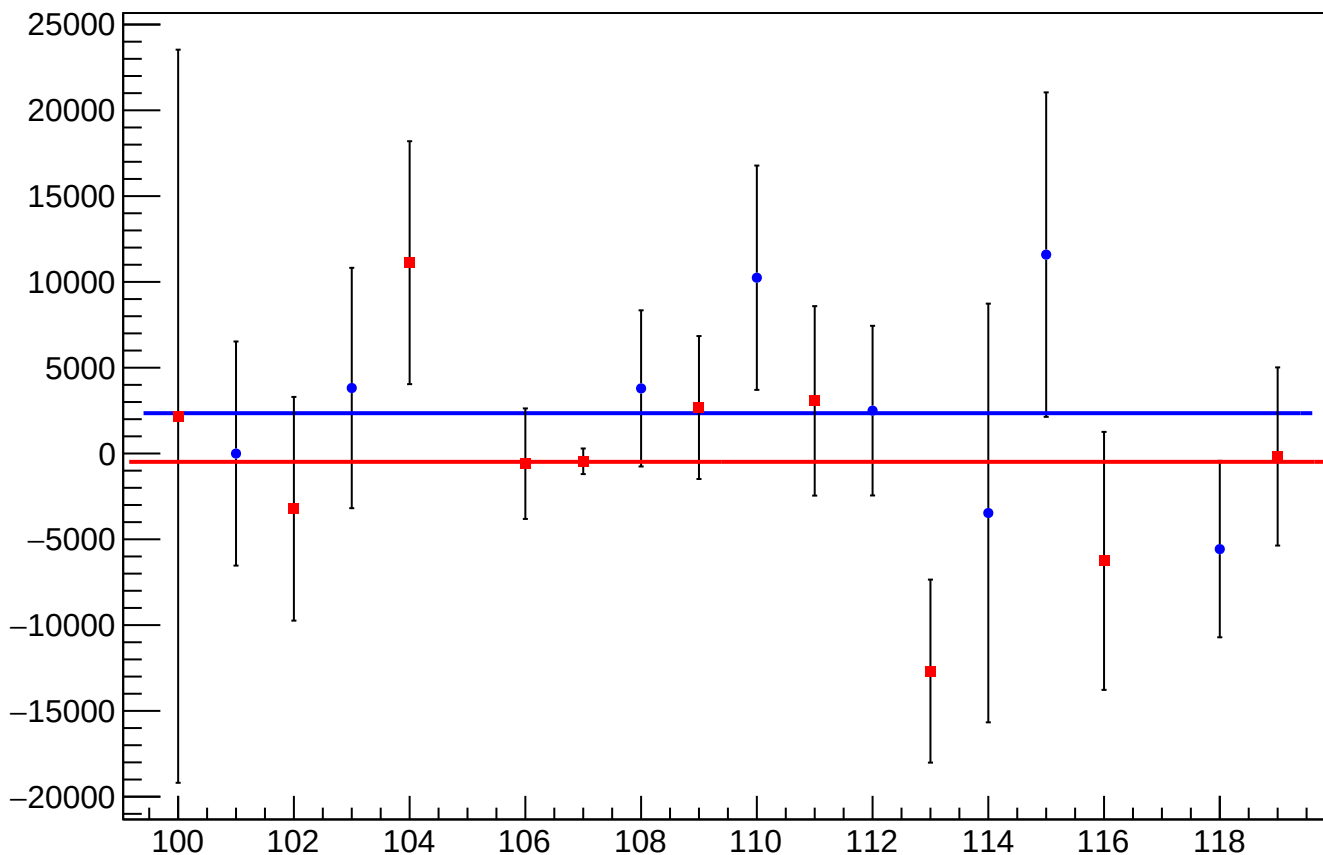
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1964.385+/-0.520  $\chi^2/\text{NDF}$ : 319767.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 2349.475+/-2170.770  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -485.934+/-686.685  $\chi^2/\text{NDF}$ : 9.7/9

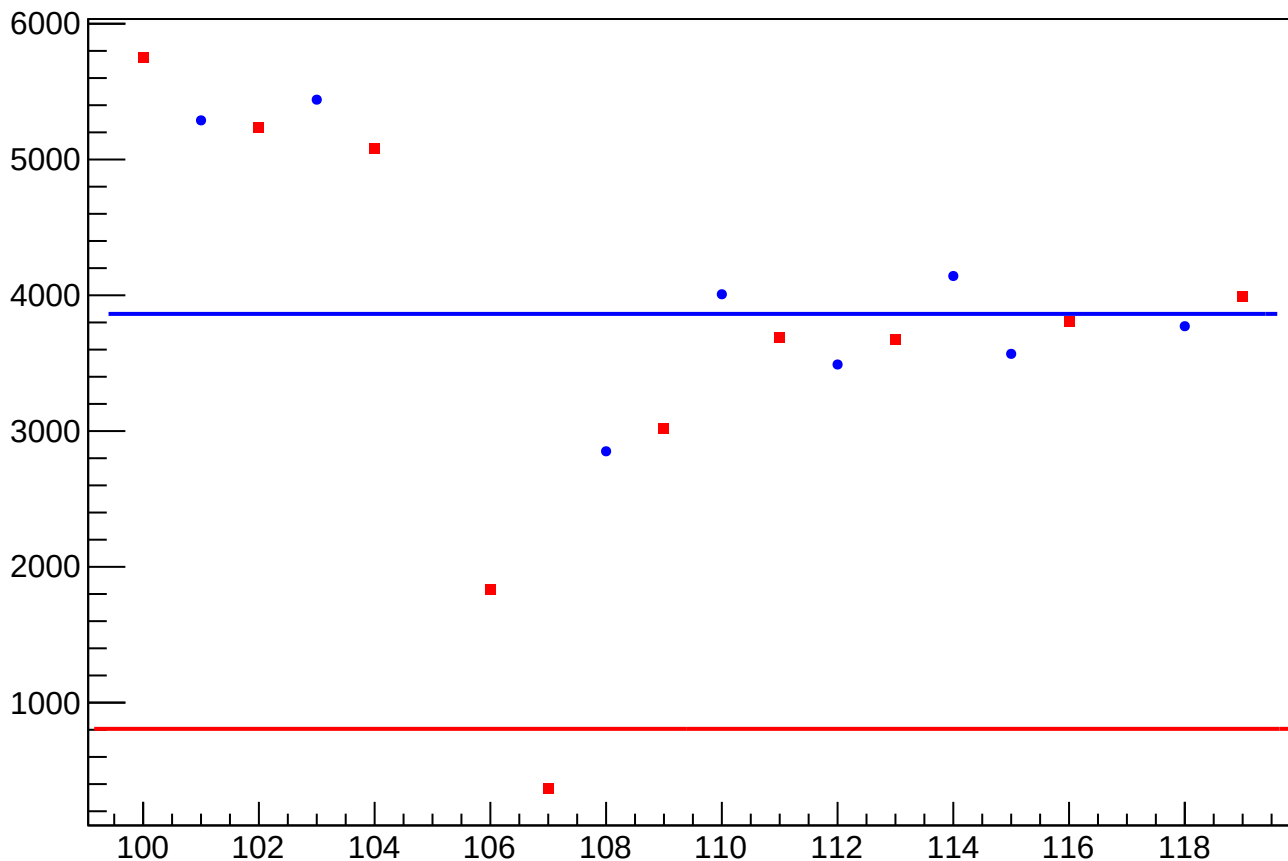
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -228.014+/-654.709  $\chi^2/\text{NDF}$ : 16.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 3863.035 $\pm$ 1.535  $\chi^2$ /NDF: 311649.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 806.826 $\pm$ 0.486  $\chi^2$ /NDF: 5417125.1/9

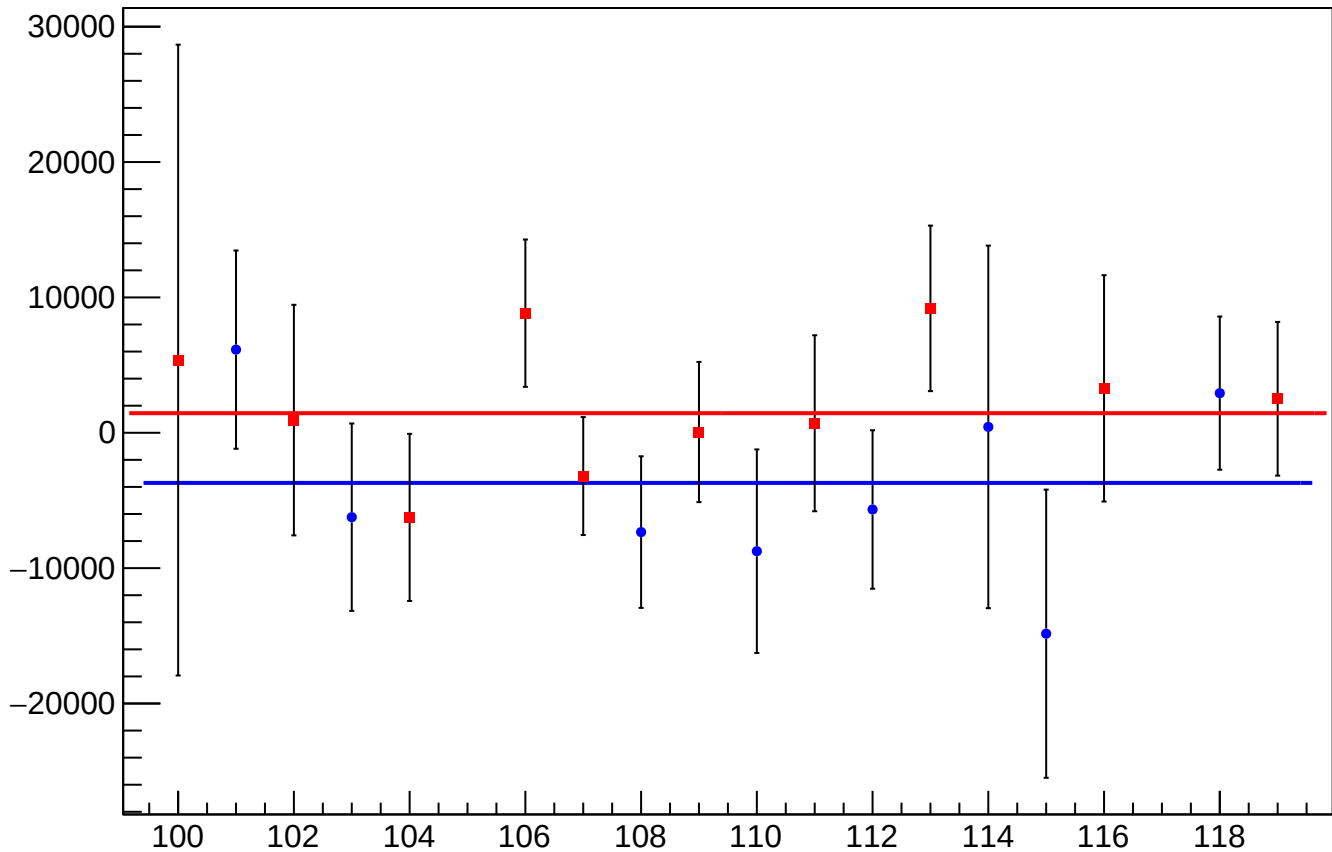
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1084.830 $\pm$ 0.463  $\chi^2$ /NDF: 9332482.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_mean vs Slug



Right In: -3702.707 $\pm$ 2469.990  $\chi^2$ /NDF: 5.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1446.645 $\pm$ 1956.133  $\chi^2$ /NDF: 6.3/9

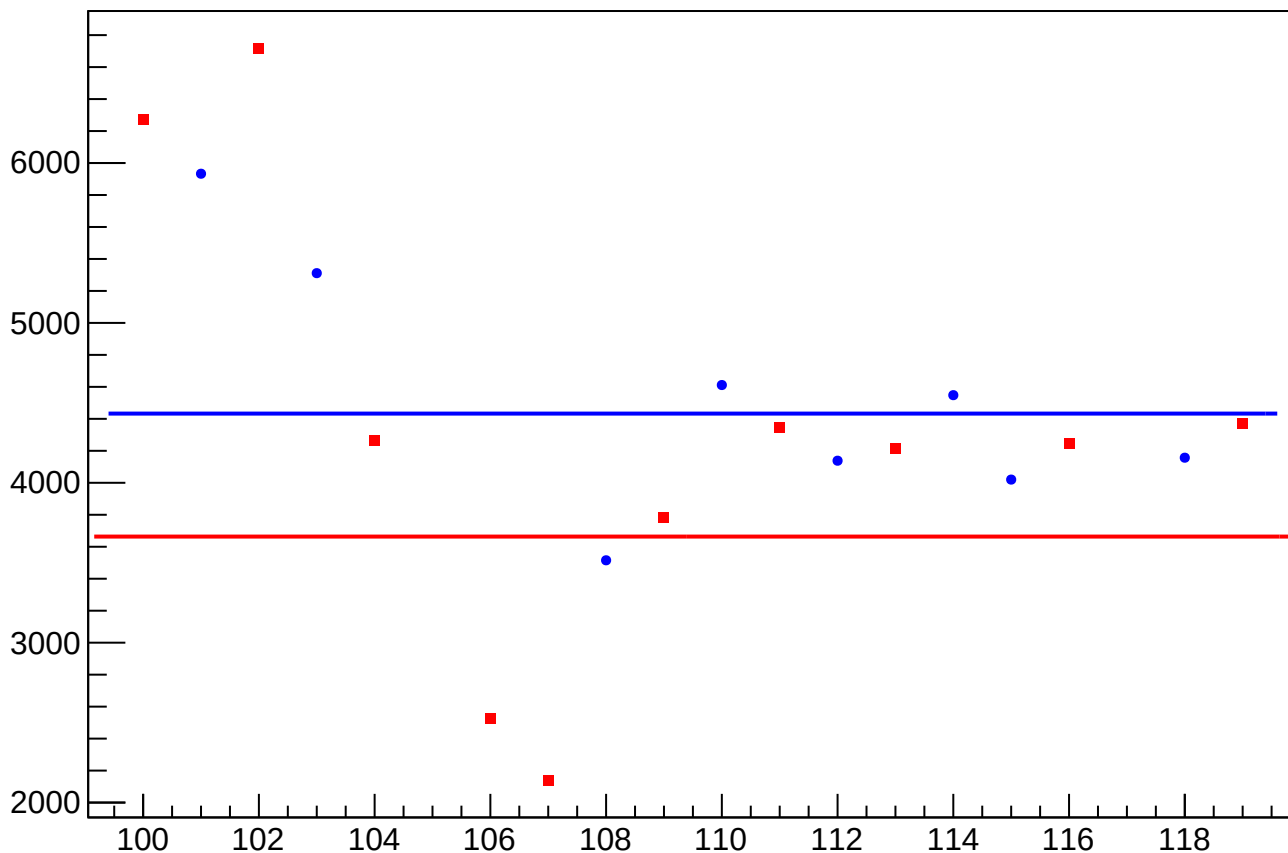
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -538.160 $\pm$ 1533.479  $\chi^2$ /NDF: 14.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_rms vs Slug



Right In: 4432.822+/-1.747  $\chi^2/\text{NDF}$ : 183935.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3663.632+/-1.361  $\chi^2/\text{NDF}$ : 734479.2/9

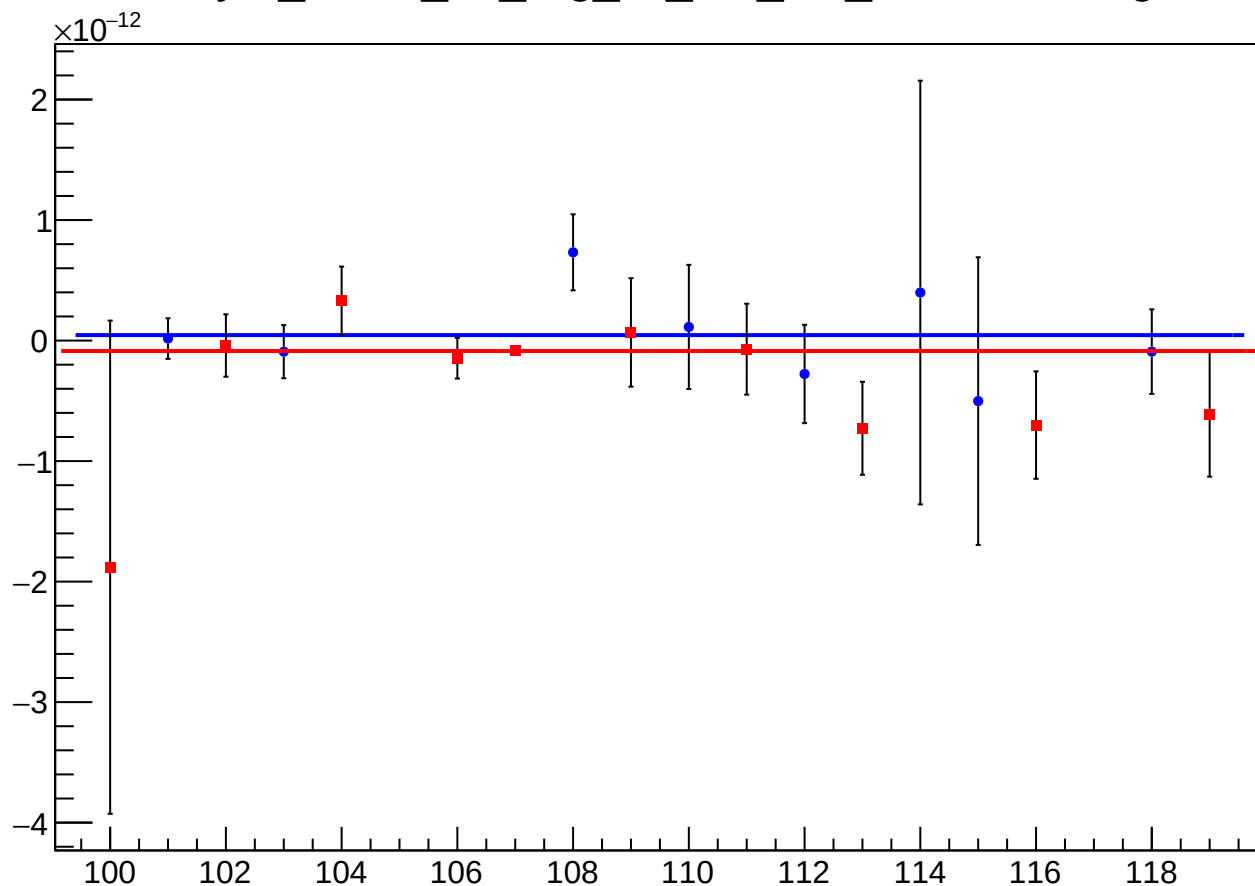
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3954.363+/-1.074  $\chi^2/\text{NDF}$ : 1039062.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.9/9

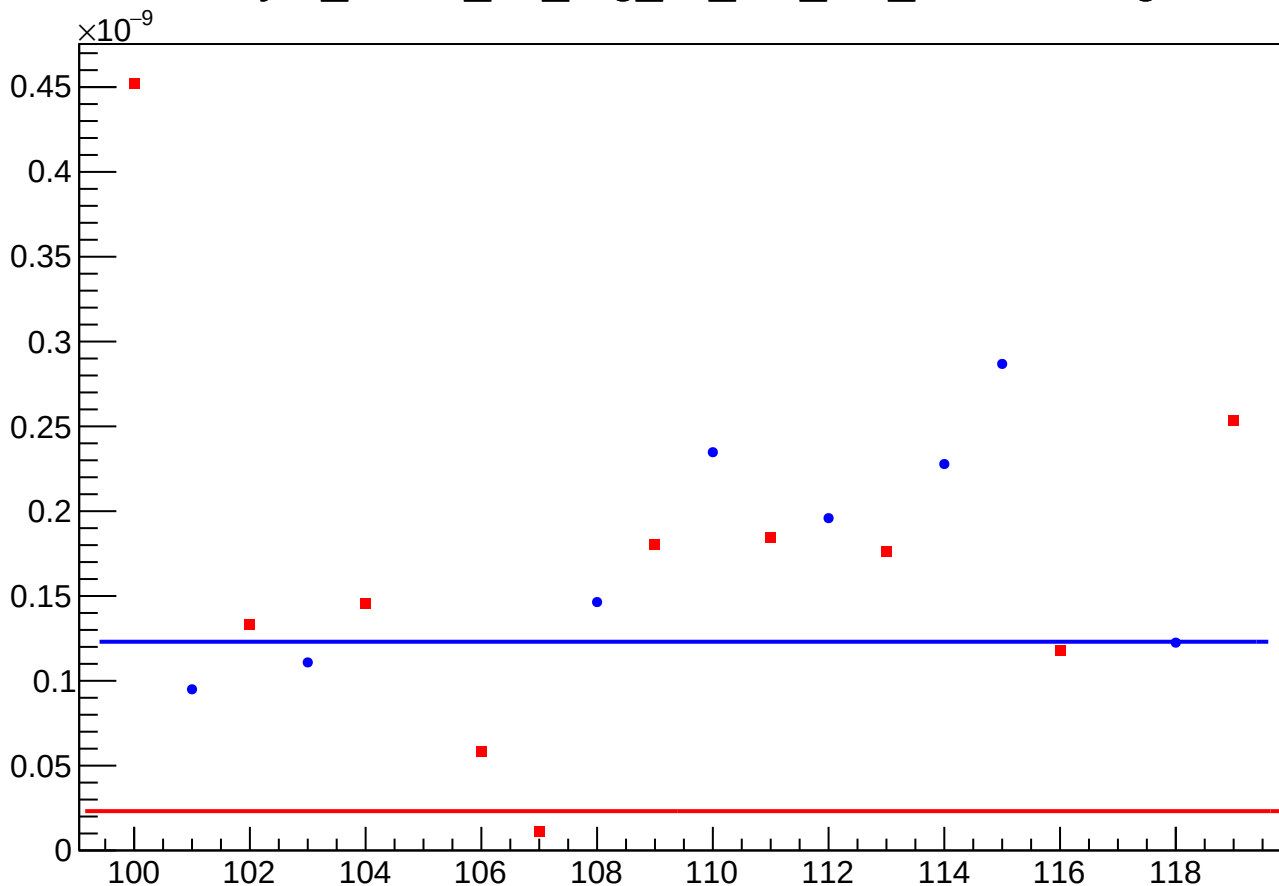
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.5/17

- 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  $\chi^2/\text{NDF}$ : 275074.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2522509.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

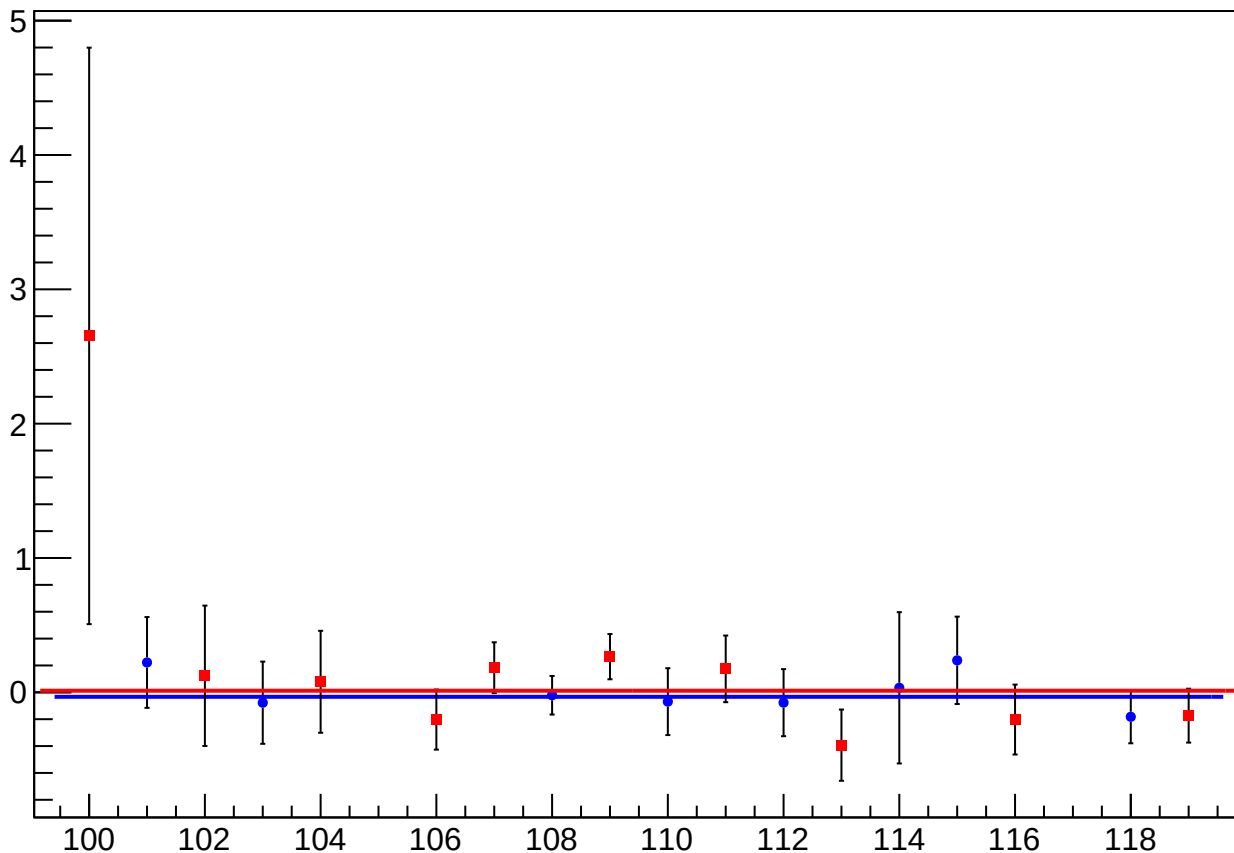
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4330297.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl1r2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.033+/-0.085  $\chi^2/\text{NDF}$ : 1.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.078  $\chi^2/\text{NDF}$ : 9.9/9

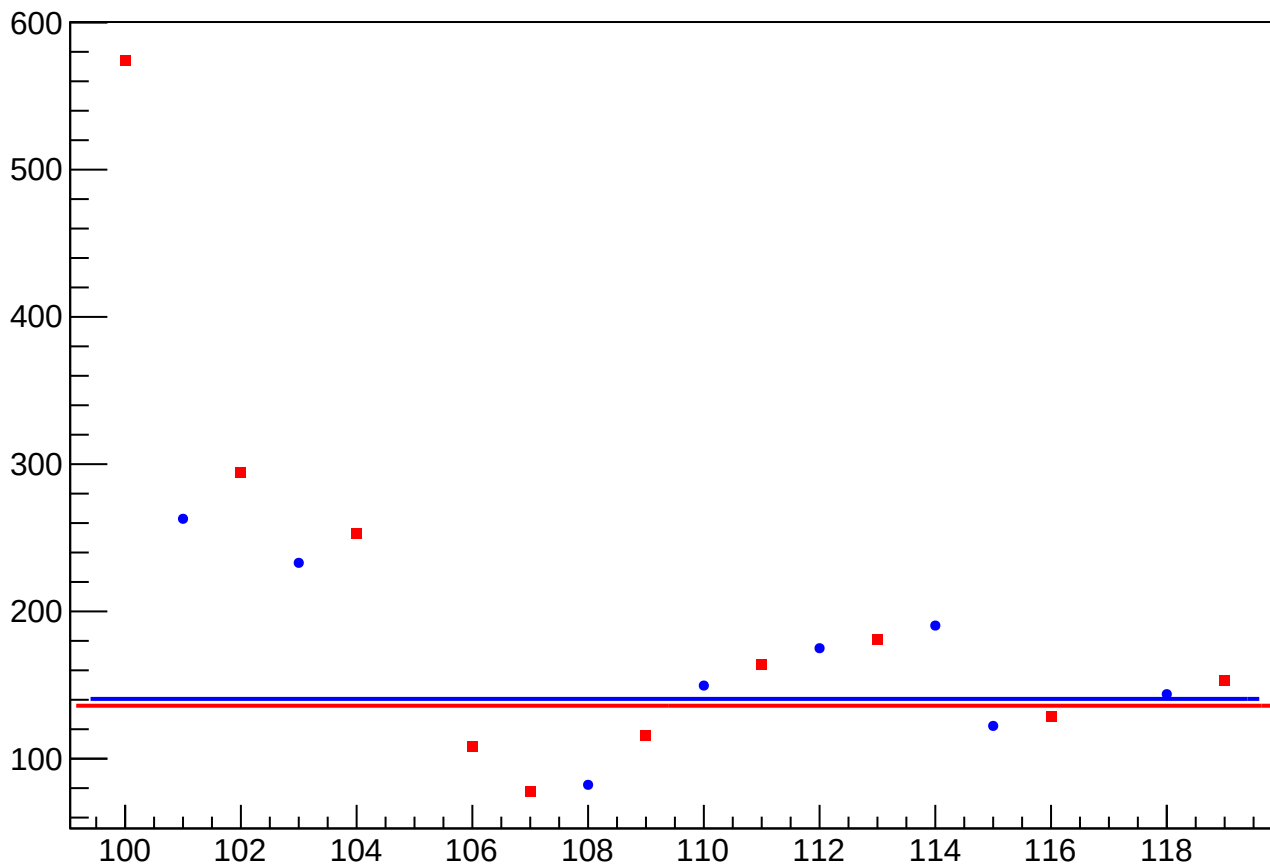
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.009+/-0.057  $\chi^2/\text{NDF}$ : 12.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 140.595 $\pm$ 0.060  $\chi^2$ /NDF: 837156.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 135.961 $\pm$ 0.055  $\chi^2$ /NDF: 807841.7/9

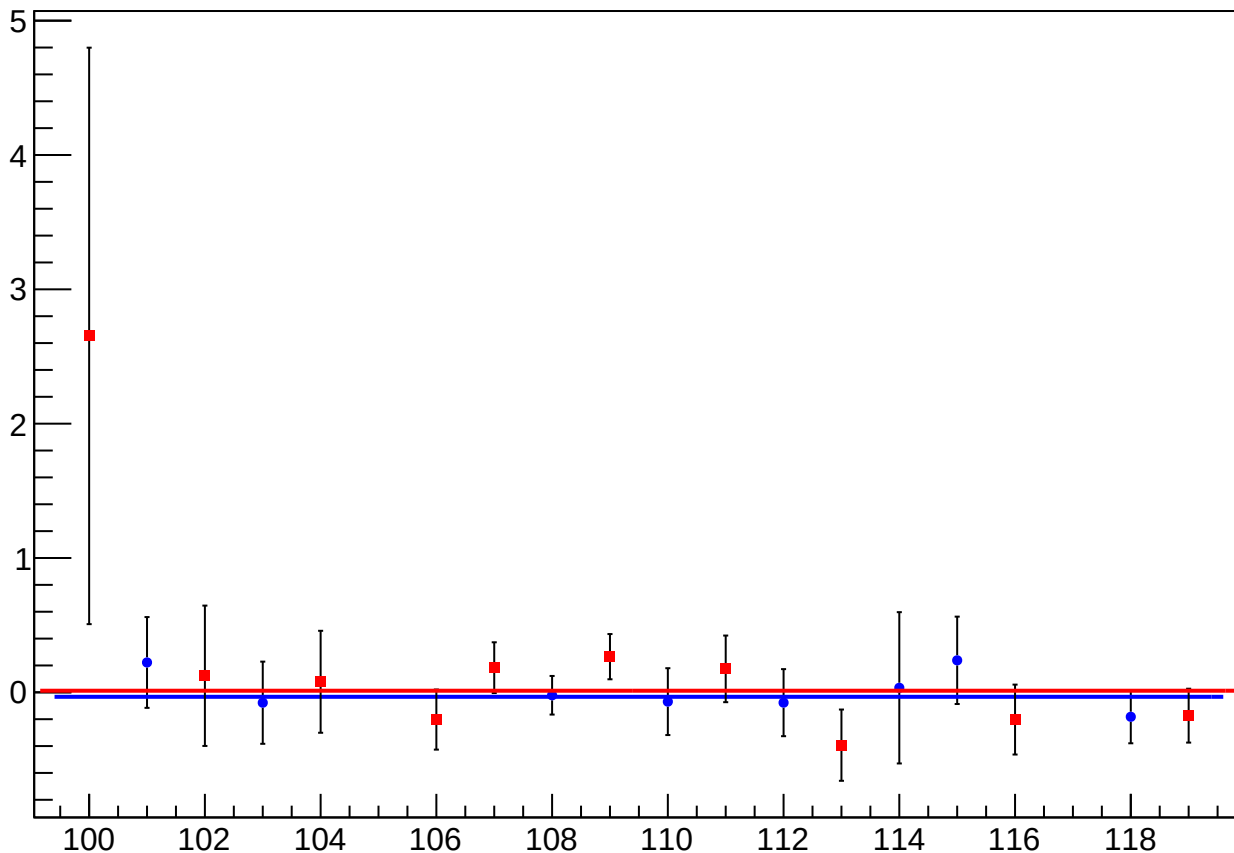
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 138.080 $\pm$ 0.041  $\chi^2$ /NDF: 1648221.0/17

- 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: -0.033+/-0.085  $\chi^2/\text{NDF}$ : 1.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.078  $\chi^2/\text{NDF}$ : 9.9/9

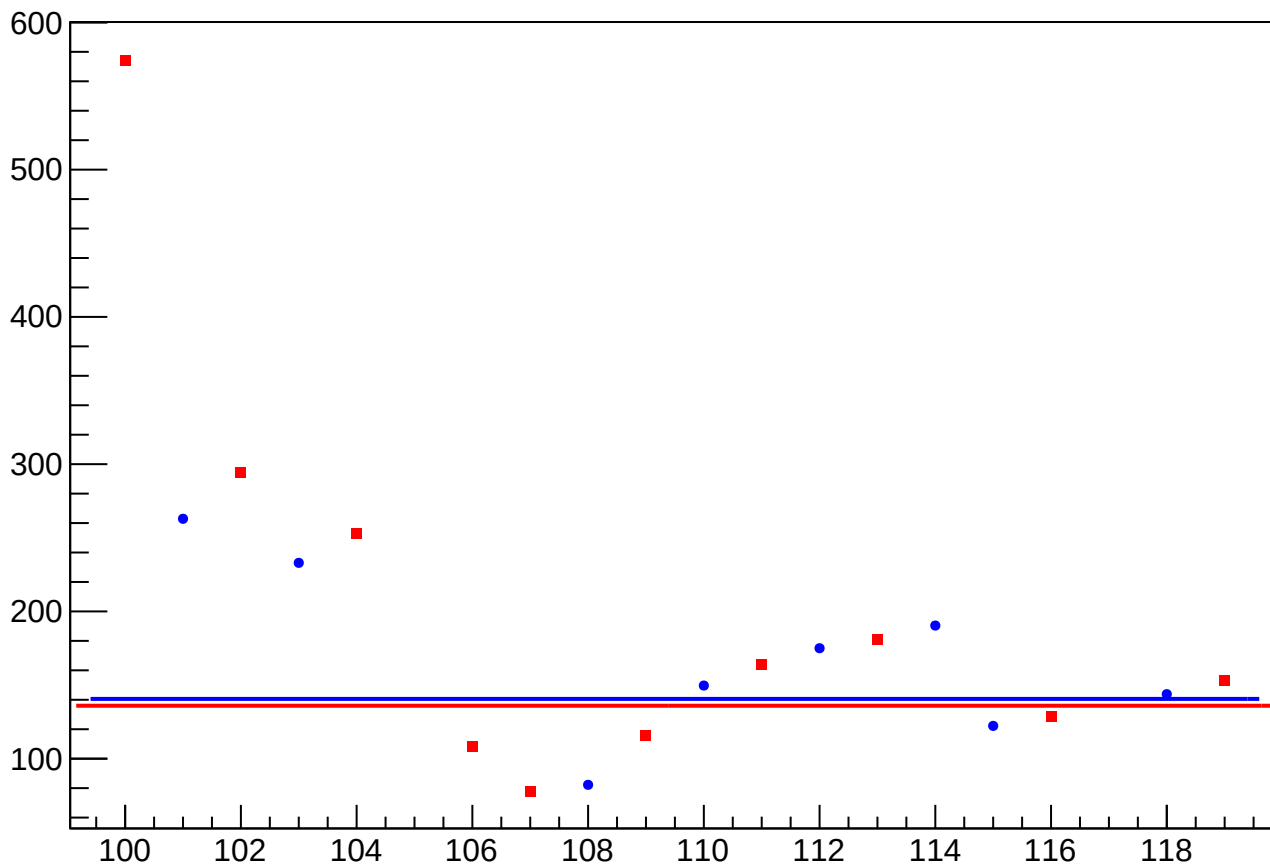
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.009+/-0.057  $\chi^2/\text{NDF}$ : 12.0/17

- 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: 140.595 $\pm$ 0.060  $\chi^2$ /NDF: 837156.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 135.961 $\pm$ 0.055  $\chi^2$ /NDF: 807841.7/9

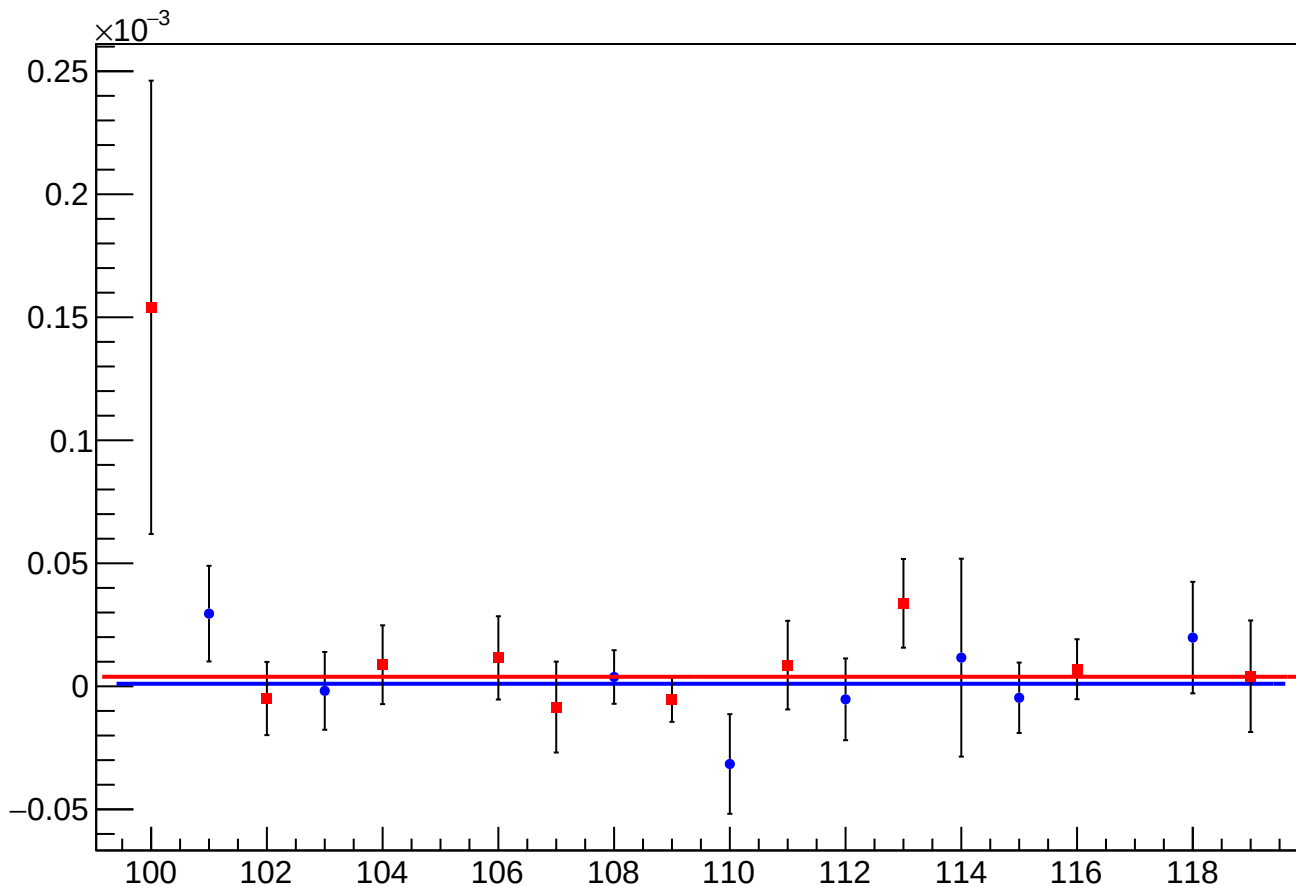
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 138.080 $\pm$ 0.041  $\chi^2$ /NDF: 1648221.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.7/9

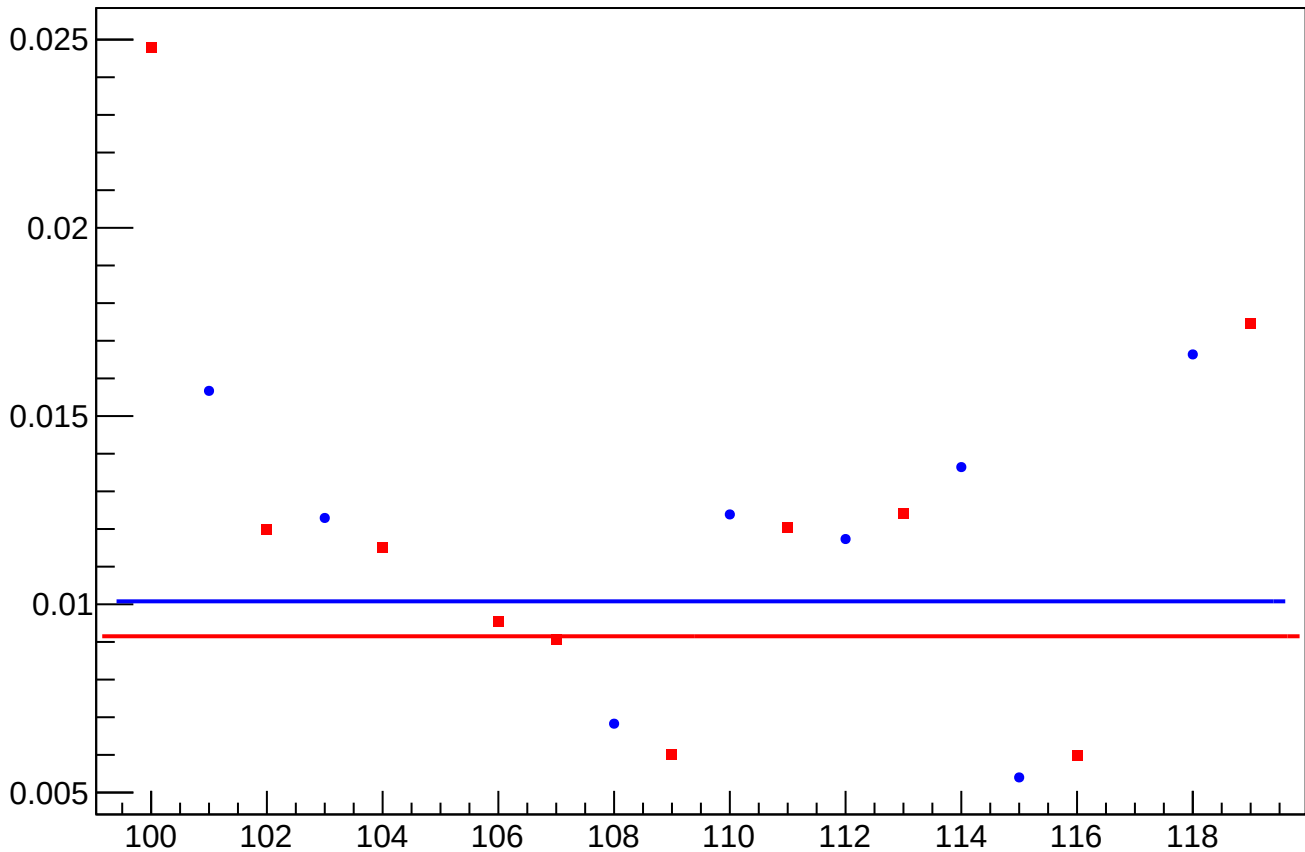
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 825656.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 939410.9/9

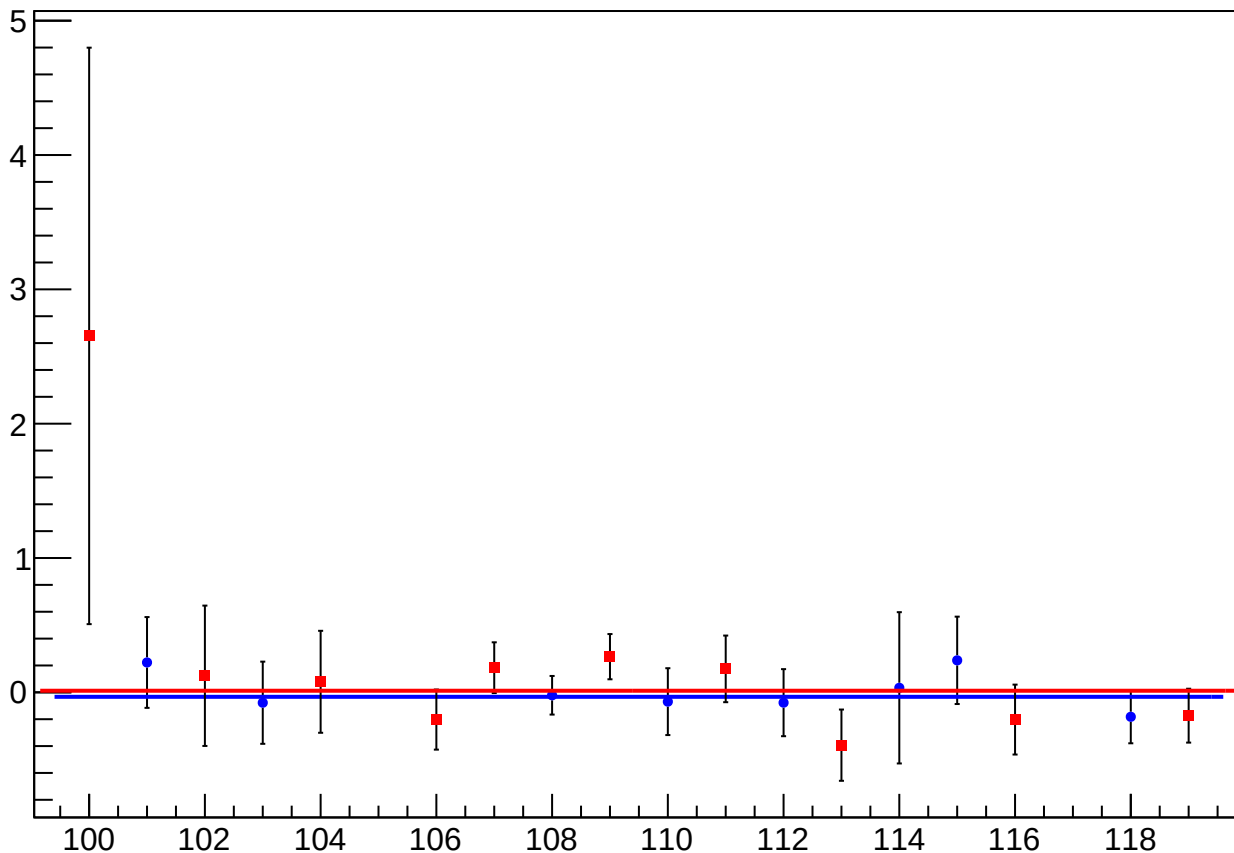
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 1794403.3/17

- 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: -0.033+/-0.085  $\chi^2/\text{NDF}$ : 1.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.078  $\chi^2/\text{NDF}$ : 9.9/9

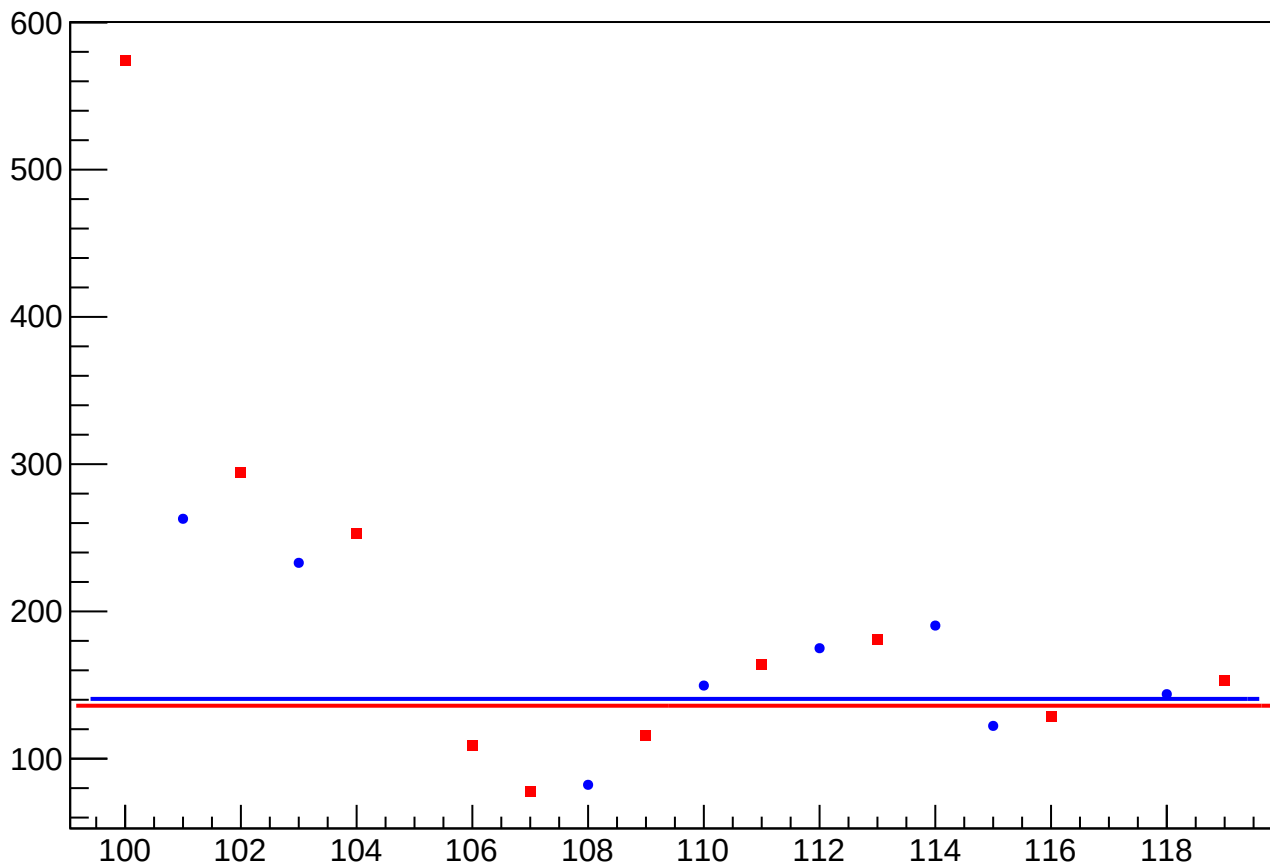
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.009+/-0.057  $\chi^2/\text{NDF}$ : 12.0/17

- 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: 140.594 $\pm$ 0.060  $\chi^2$ /NDF: 837156.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 135.962 $\pm$ 0.055  $\chi^2$ /NDF: 807869.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

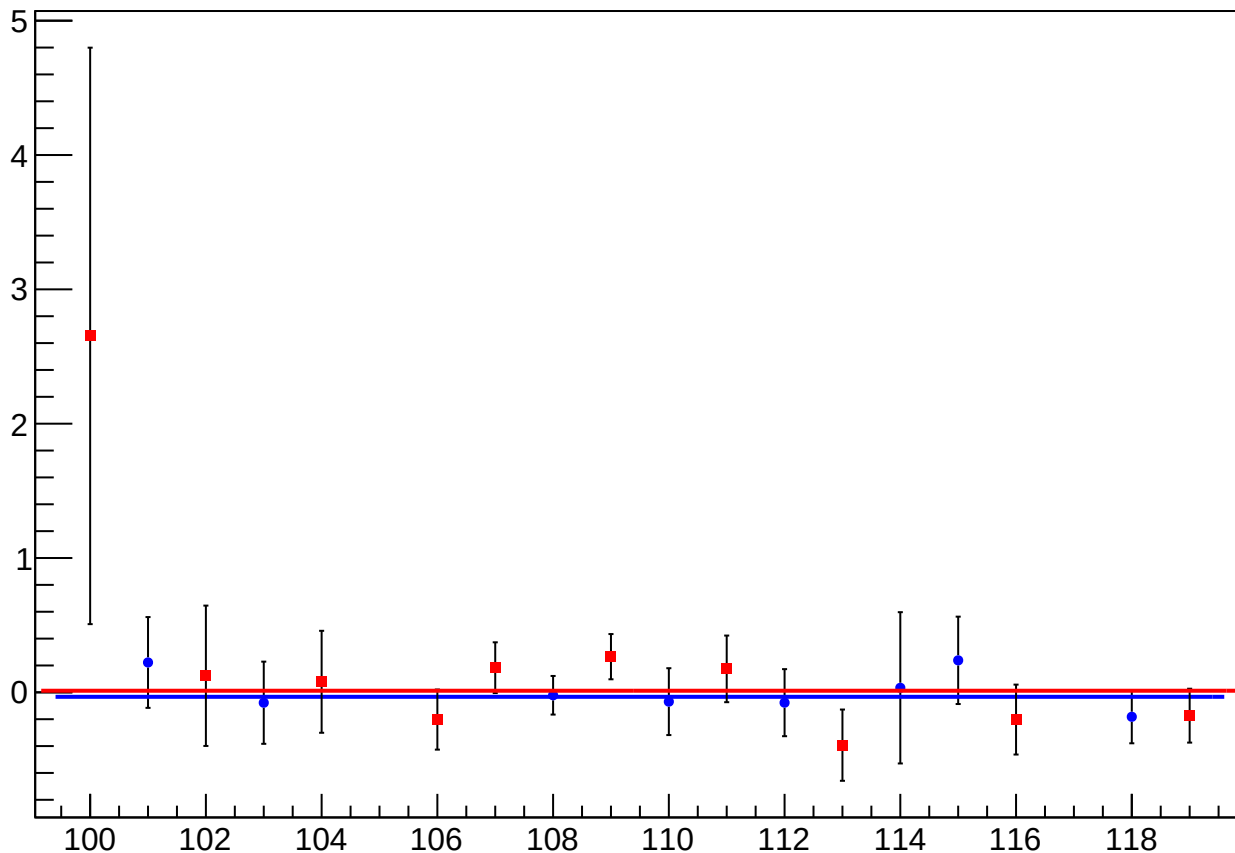
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 138.080 $\pm$ 0.041  $\chi^2$ /NDF: 1648249.0/17

- 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: -0.033+/-0.085  $\chi^2/\text{NDF}$ : 1.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.078  $\chi^2/\text{NDF}$ : 9.9/9

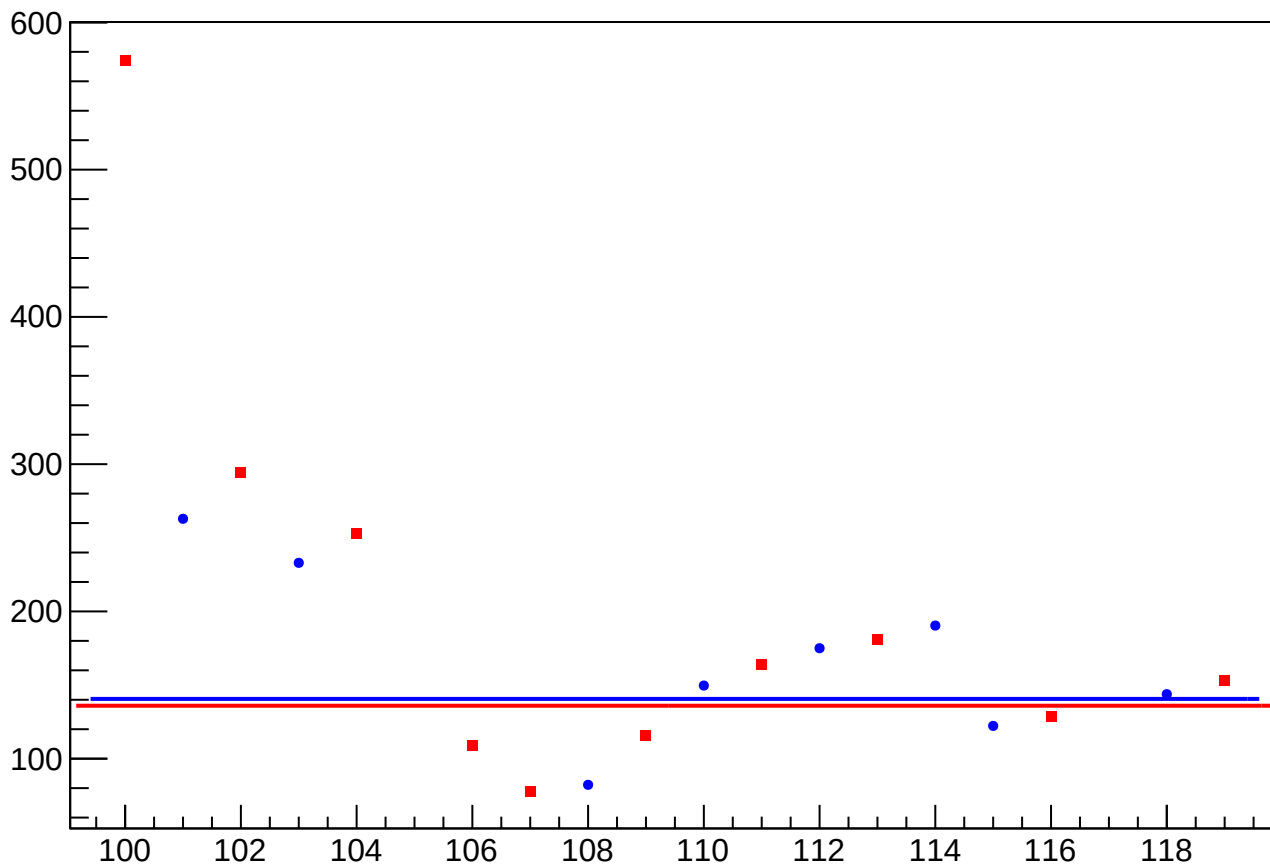
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.009+/-0.057  $\chi^2/\text{NDF}$ : 12.0/17

- 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: 140.594 $\pm$ 0.060  $\chi^2$ /NDF: 837156.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 135.962 $\pm$ 0.055  $\chi^2$ /NDF: 807869.9/9

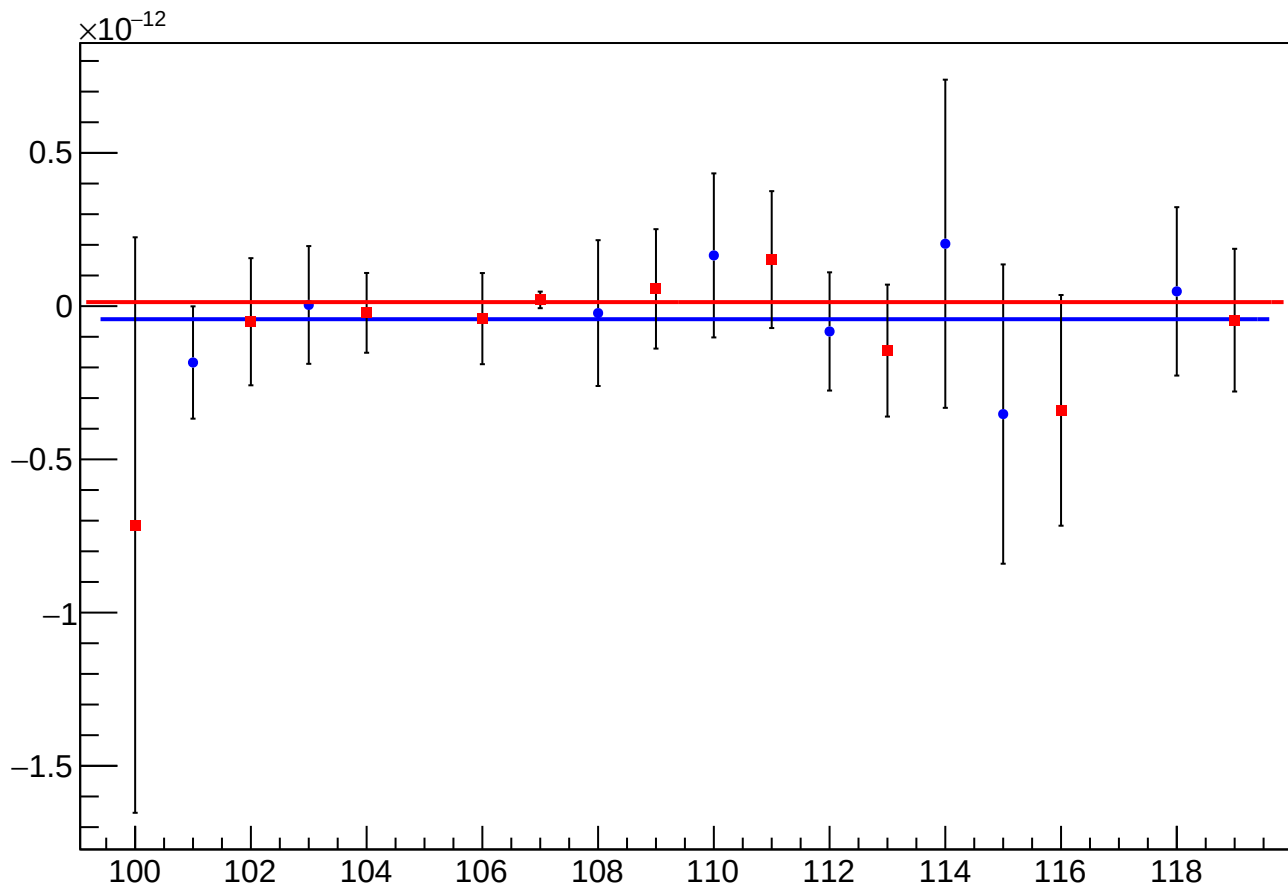
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 138.080 $\pm$ 0.041  $\chi^2$ /NDF: 1648249.0/17

- 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  $\chi^2/\text{NDF}$ : 2.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.9/9

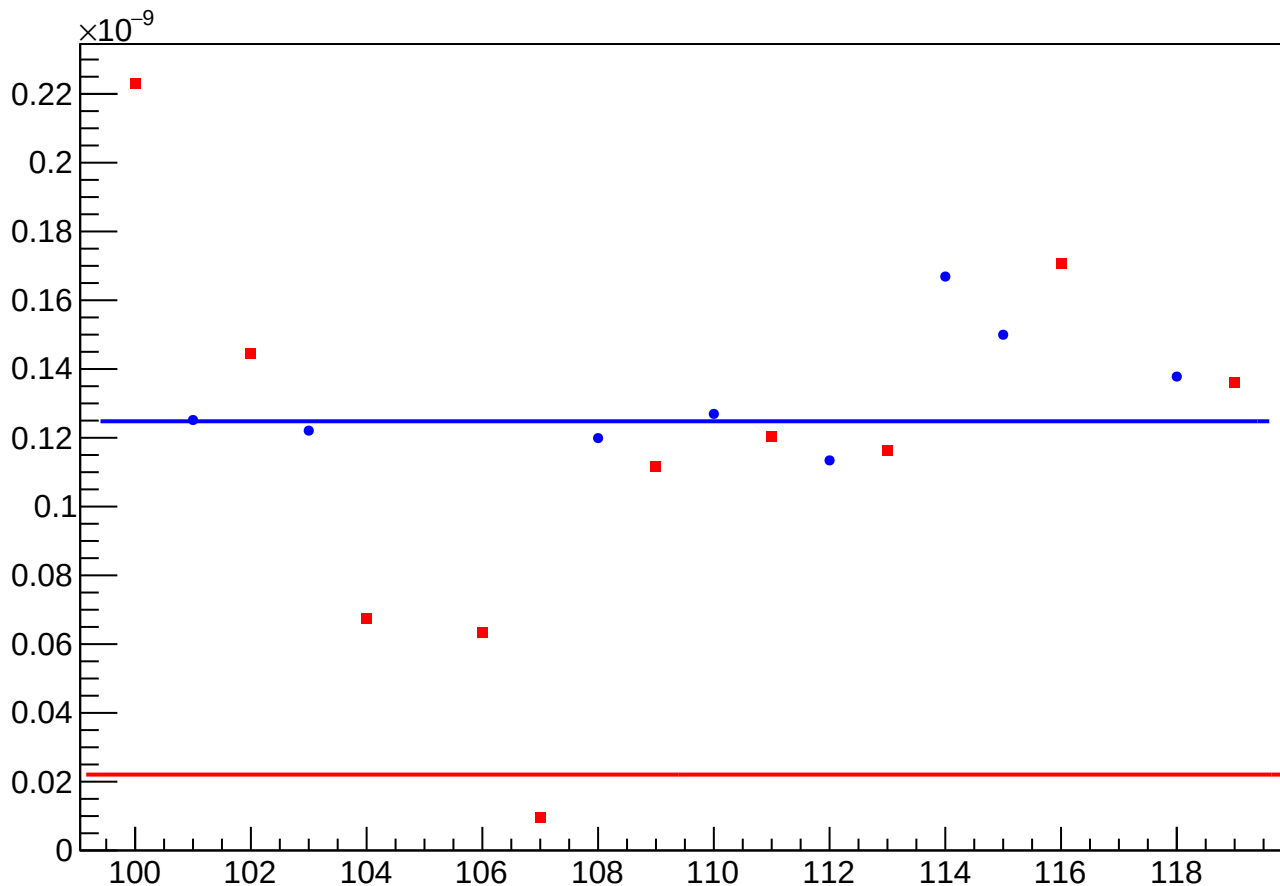
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.3/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 30486.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3599721.7/9

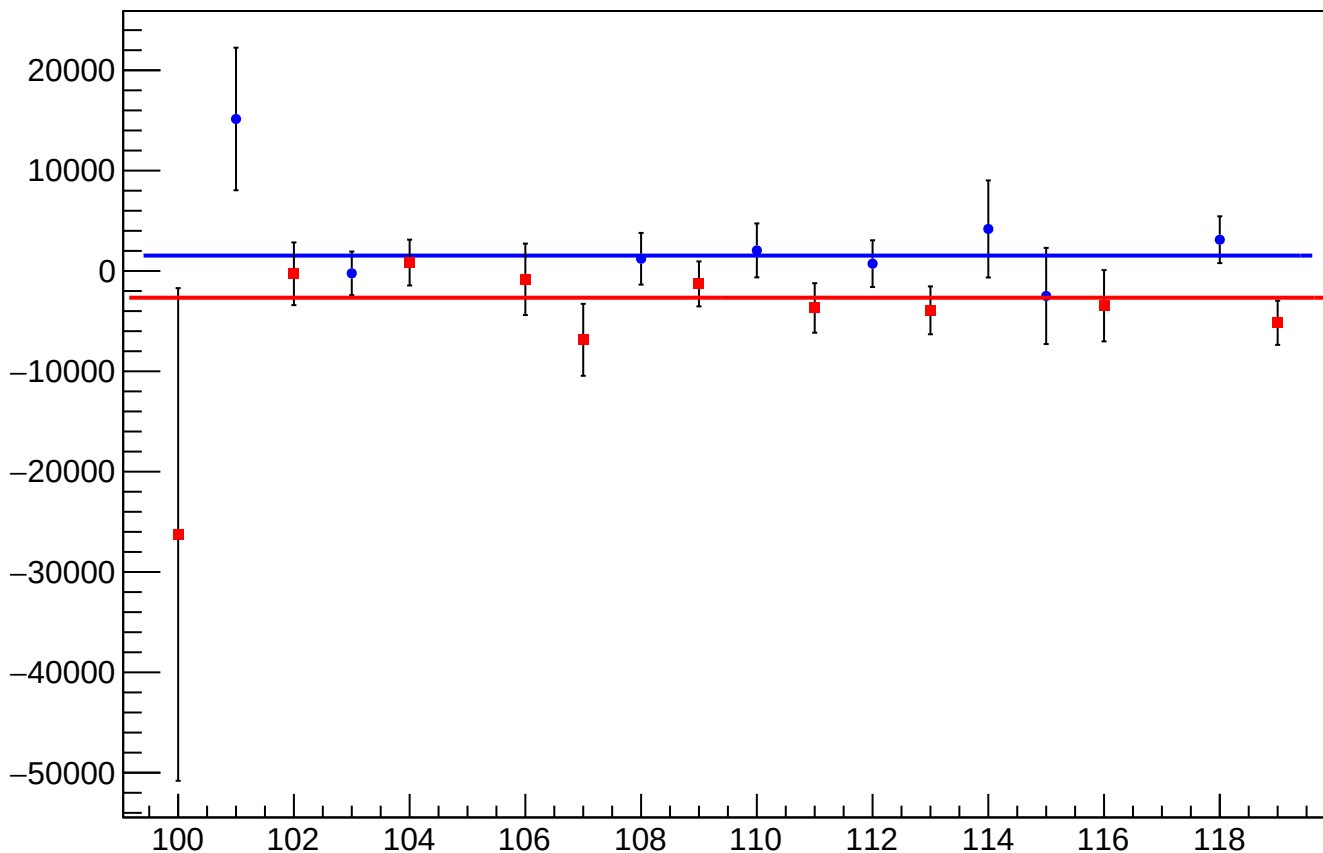
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6280769.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1l2\_avg\_mean vs Slug



Right In: 1532.017+/-1012.609  $\chi^2/\text{NDF}$ : 6.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2664.189+/-884.528  $\chi^2/\text{NDF}$ : 7.7/9

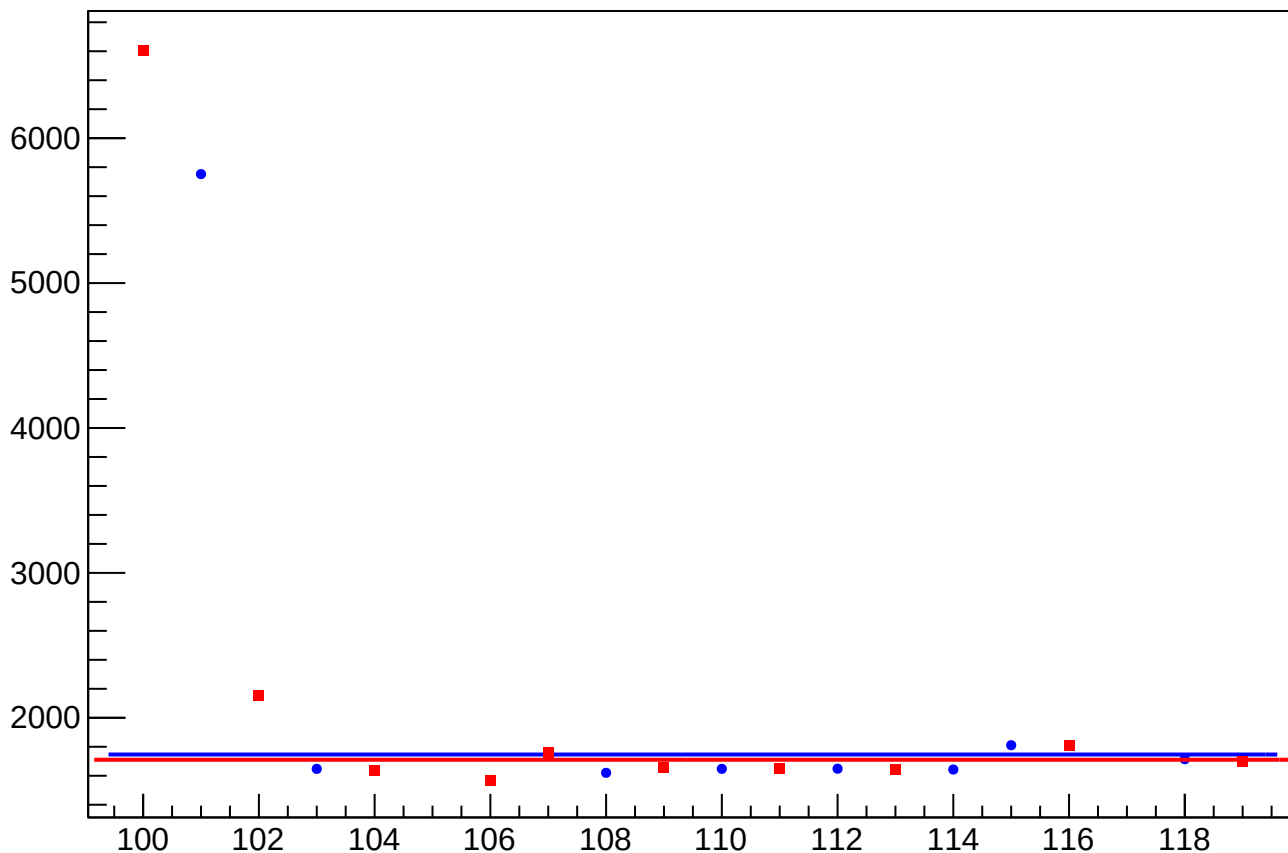
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -848.099+/-666.165  $\chi^2/\text{NDF}$ : 23.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1746.519+/-0.716  $\chi^2/\text{NDF}$ : 652448.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1710.445+/-0.617  $\chi^2/\text{NDF}$ : 132641.9/9

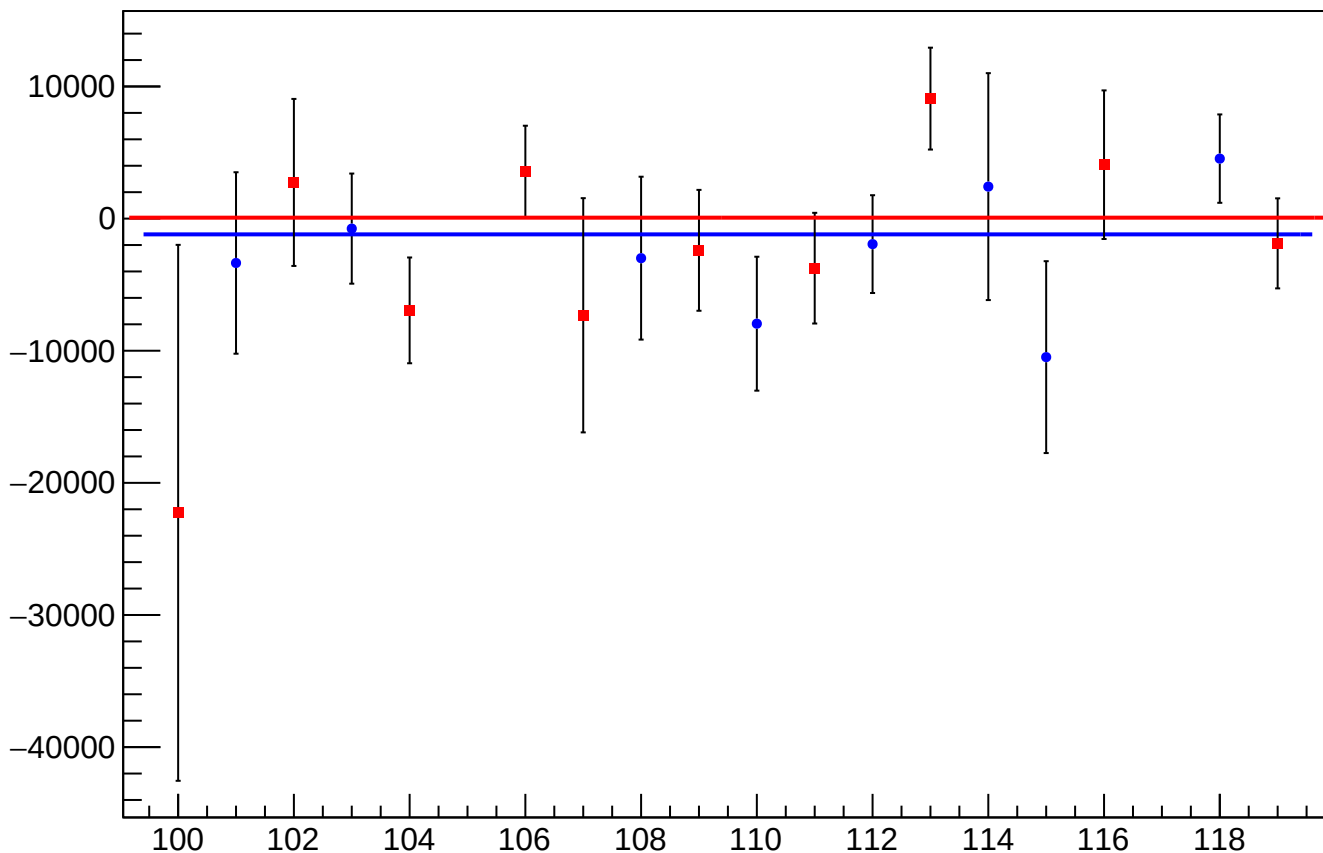
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1725.822+/-0.467  $\chi^2/\text{NDF}$ : 786547.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_reg\_correction\_mean vs Slug



Right In: -1193.078+/-1717.537  $\chi^2/\text{NDF}$ : 6.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 70.626+/-1450.212  $\chi^2/\text{NDF}$ : 13.6/9

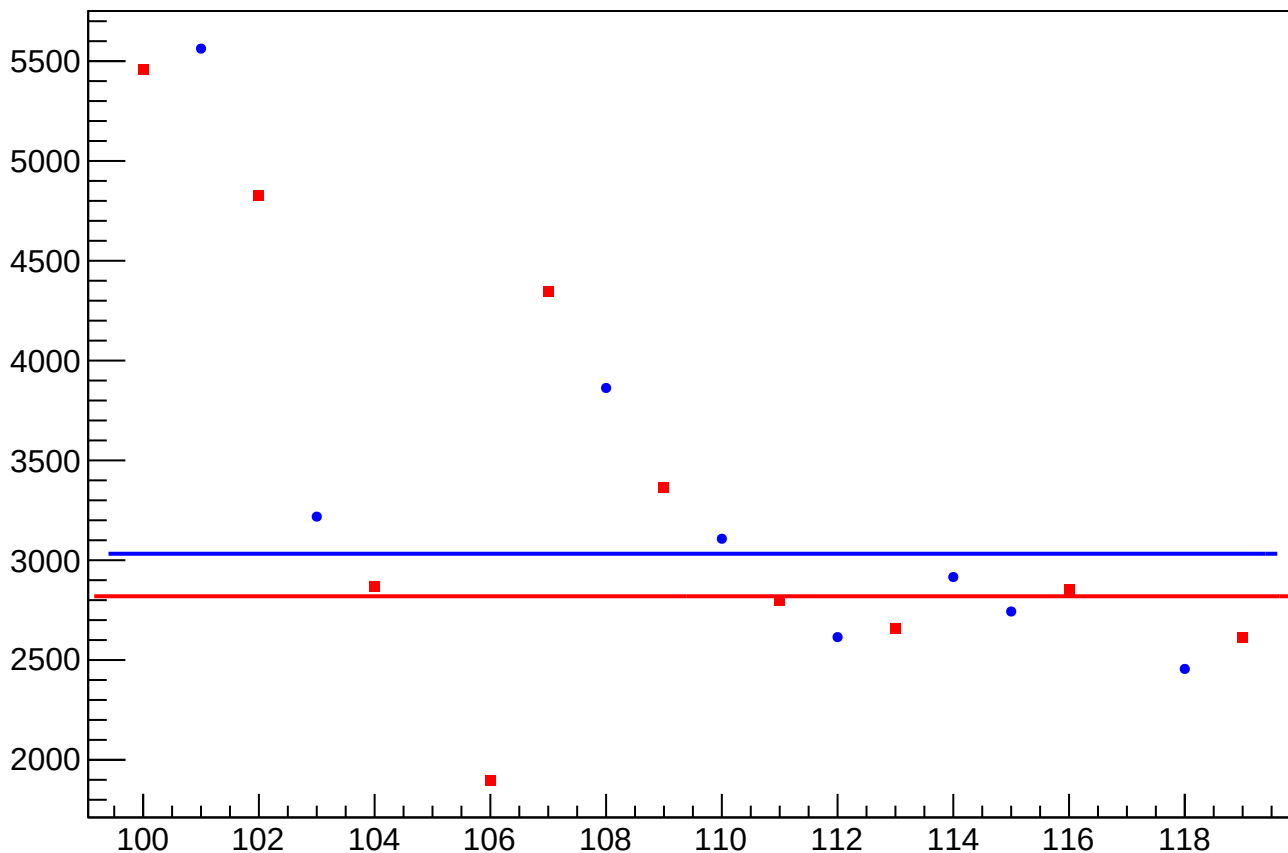
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -455.336+/-1108.054  $\chi^2/\text{NDF}$ : 20.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_reg\_correction\_rms vs Slug



Right In: 3032.401+/-1.214  $\chi^2/\text{NDF}$ : 400792.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2819.458+/-1.025  $\chi^2/\text{NDF}$ : 475867.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

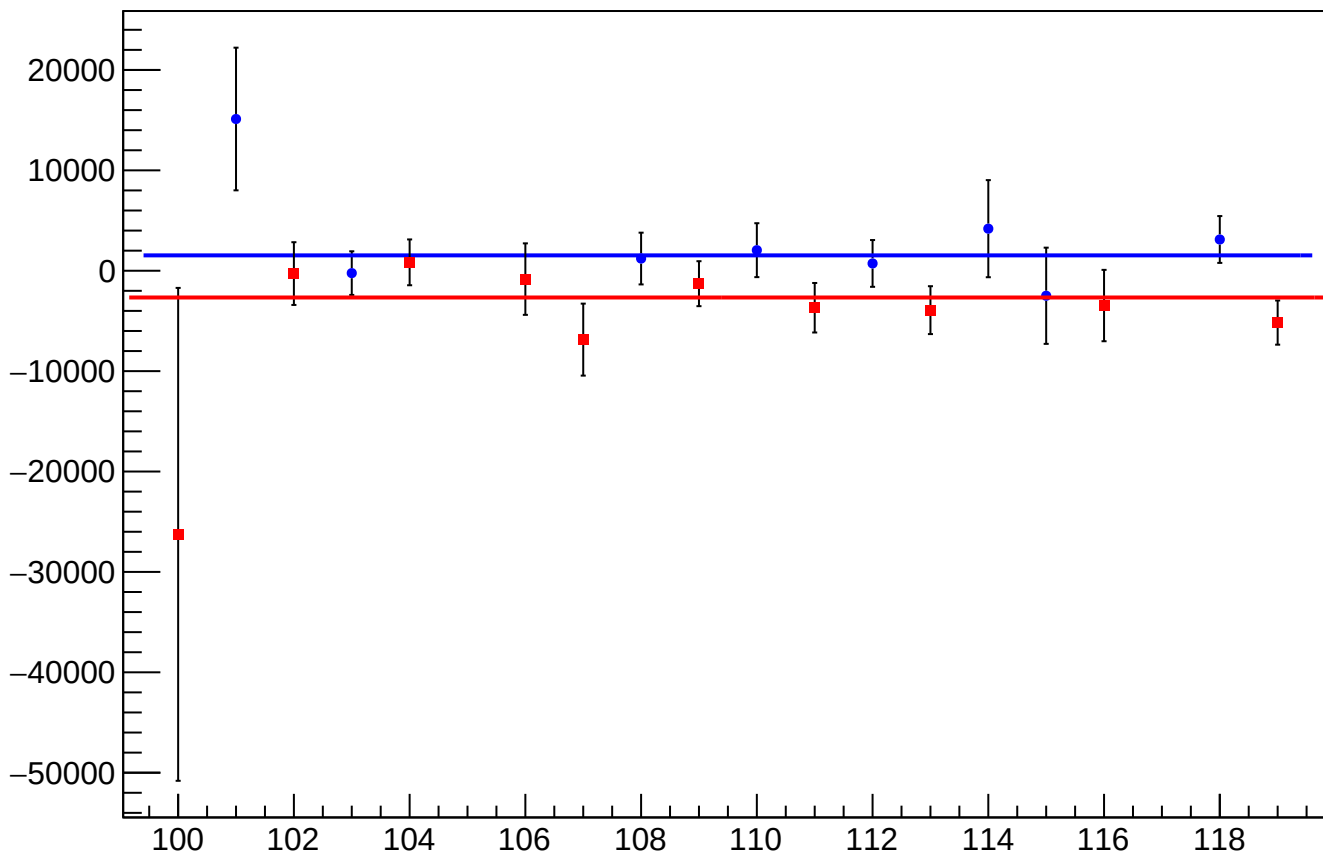
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2908.086+/-0.784  $\chi^2/\text{NDF}$ : 894607.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atr1l2\_avg\_mean vs Slug



Right In: 1531.468+/-1012.609  $\chi^2/\text{NDF}$ : 6.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2664.306+/-884.528  $\chi^2/\text{NDF}$ : 7.7/9

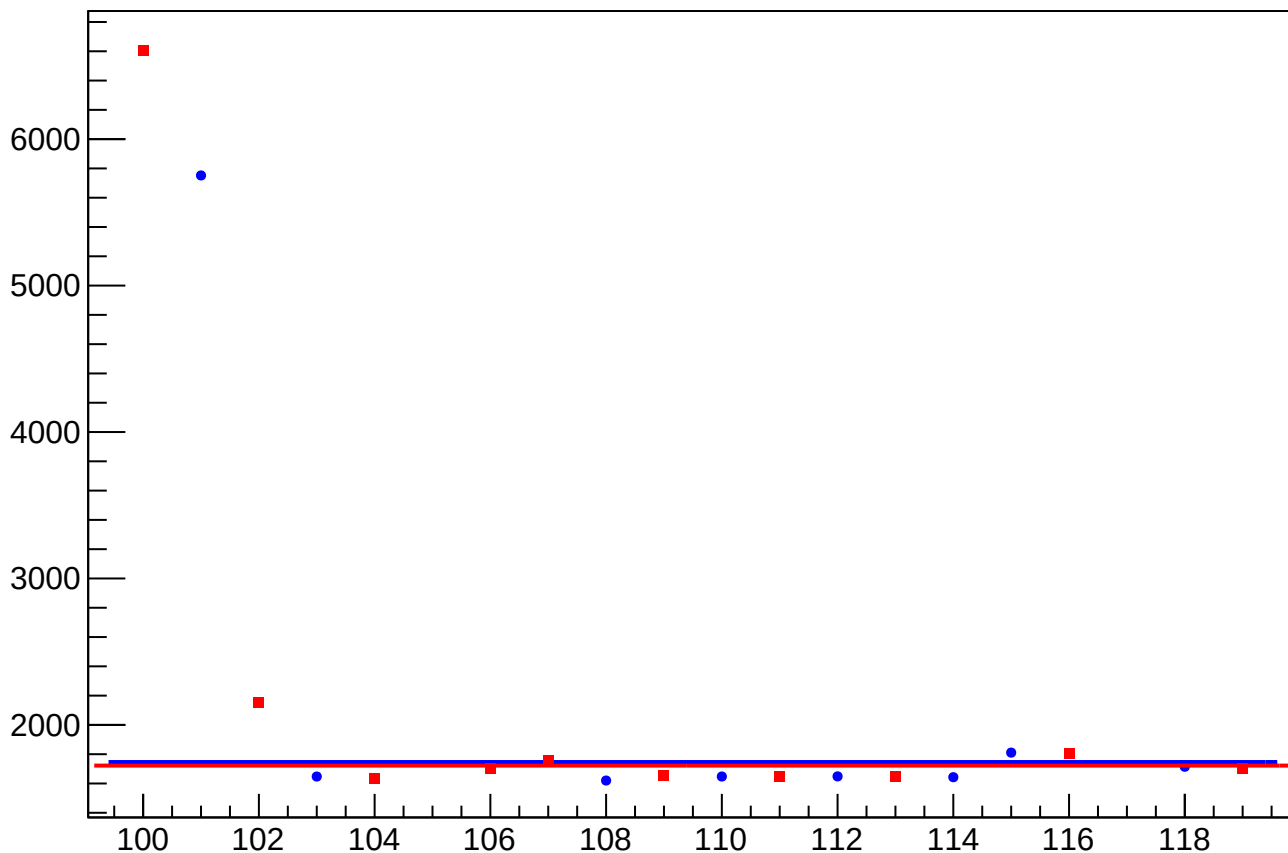
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -848.403+/-666.166  $\chi^2/\text{NDF}$ : 23.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1746.518 $\pm$ 0.716  $\chi^2$ /NDF: 652449.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1722.201 $\pm$ 0.621  $\chi^2$ /NDF: 127655.1/9

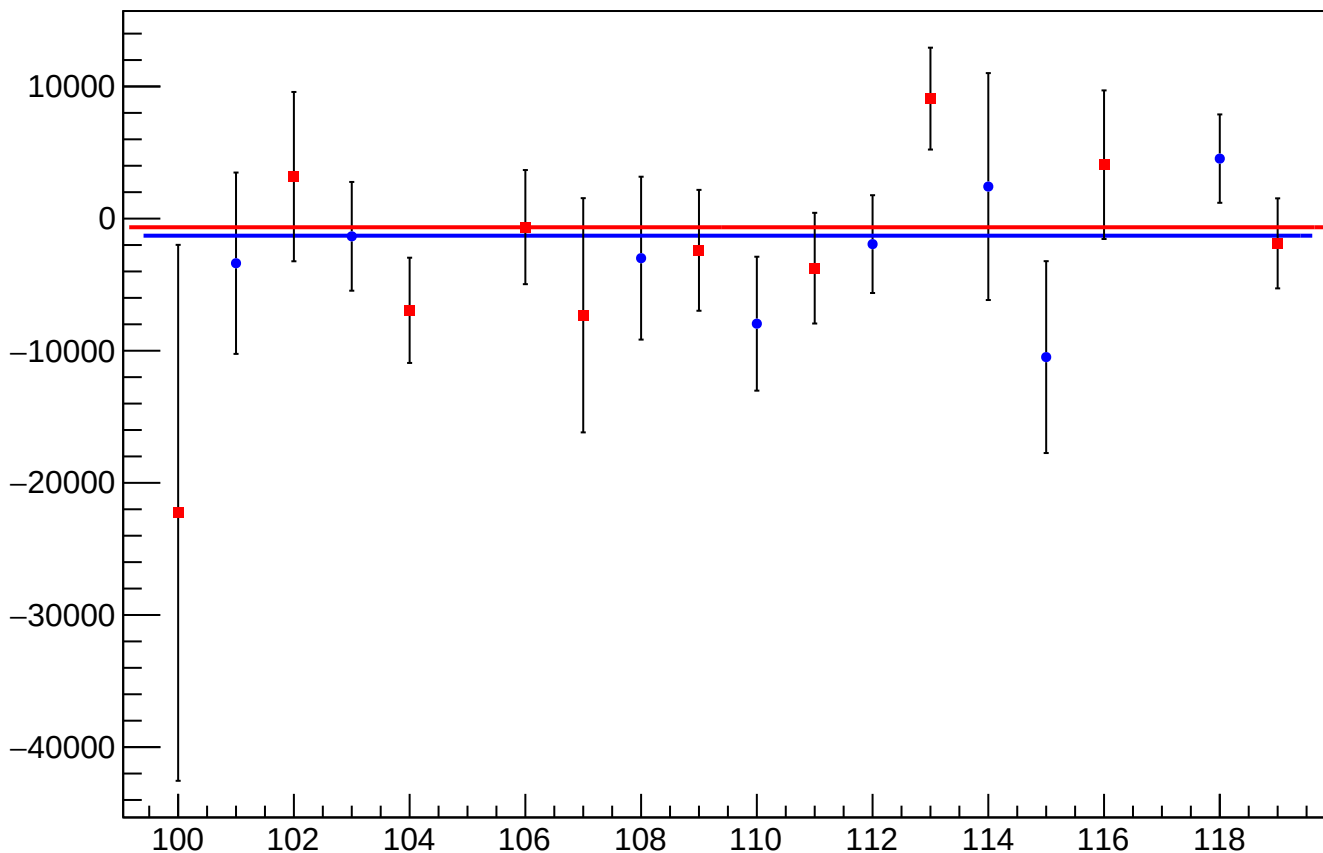
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1732.645 $\pm$ 0.469  $\chi^2$ /NDF: 780762.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_avg\_cor\_correction\_mean vs Slug



Right In: -1293.505 $\pm$ 1713.757  $\chi^2$ /NDF: 6.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -654.778 $\pm$ 1497.431  $\chi^2$ /NDF: 12.5/9

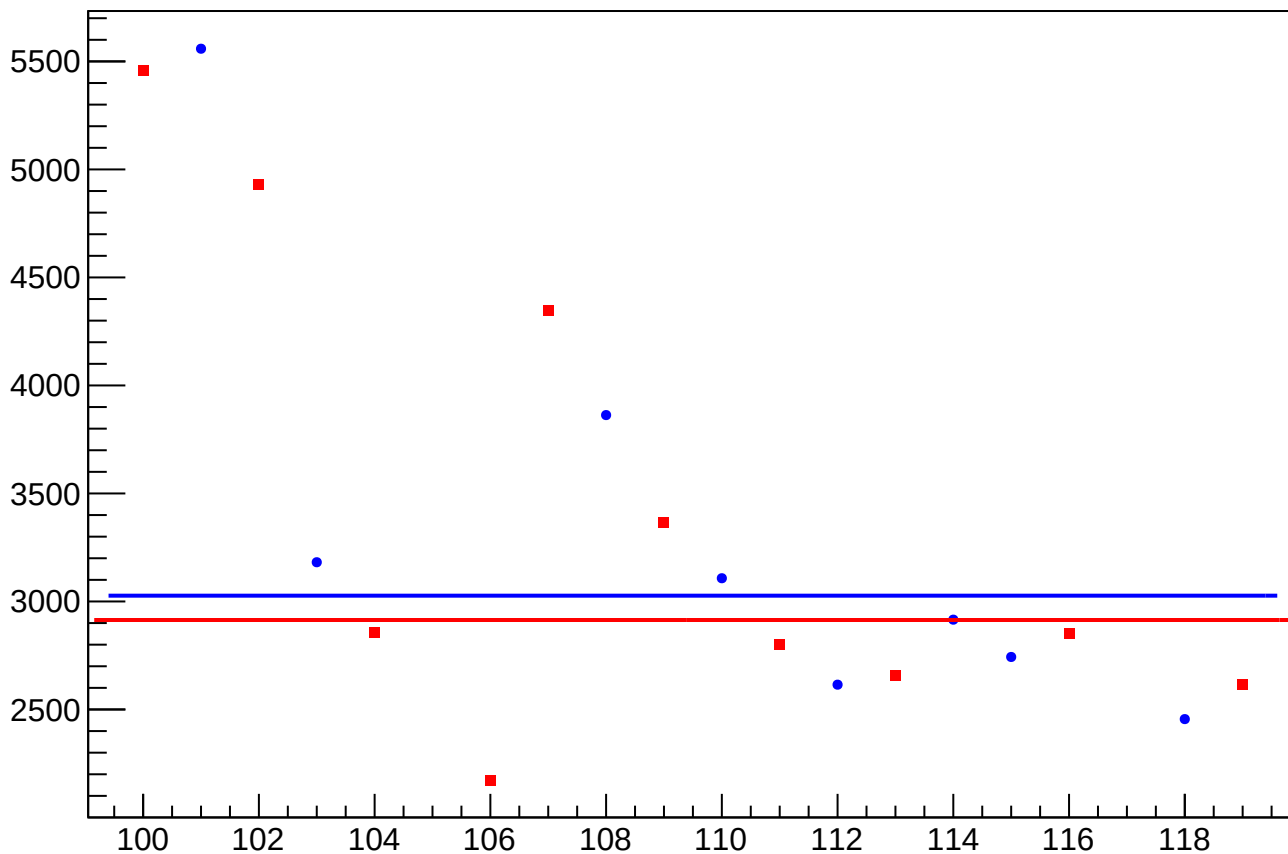
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -931.307 $\pm$ 1127.618  $\chi^2$ /NDF: 19.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_avg\_cor\_correction\_rms vs Slug



Right In: 3026.801+/-1.212  $\chi^2/\text{NDF}$ : 398956.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2914.166+/-1.059  $\chi^2/\text{NDF}$ : 386207.7/9

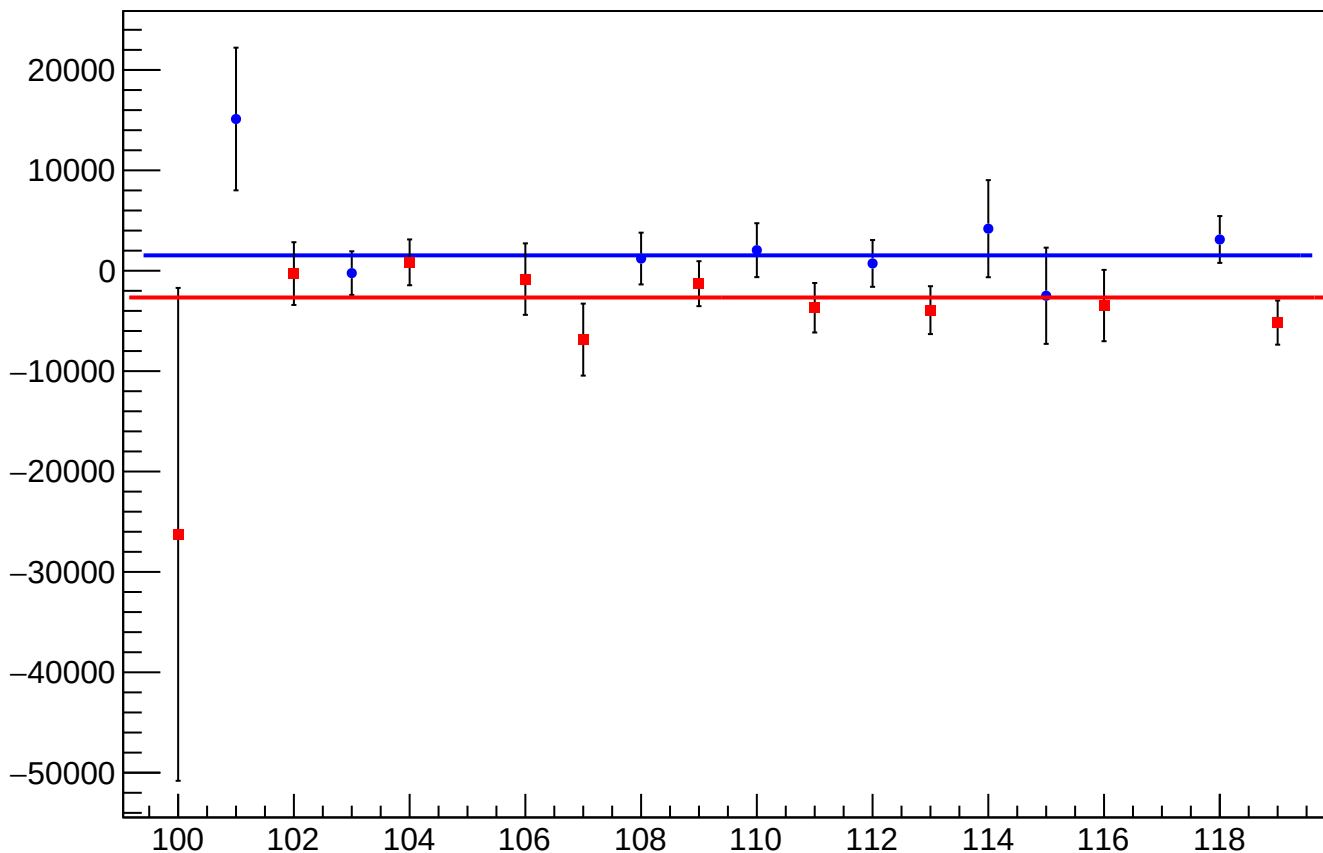
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2962.930+/-0.797  $\chi^2/\text{NDF}$ : 790063.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr1l2\_avg\_mean vs Slug



Right In: 1531.468 $\pm$ 1012.609  $\chi^2$ /NDF: 6.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2664.306 $\pm$ 884.528  $\chi^2$ /NDF: 7.7/9

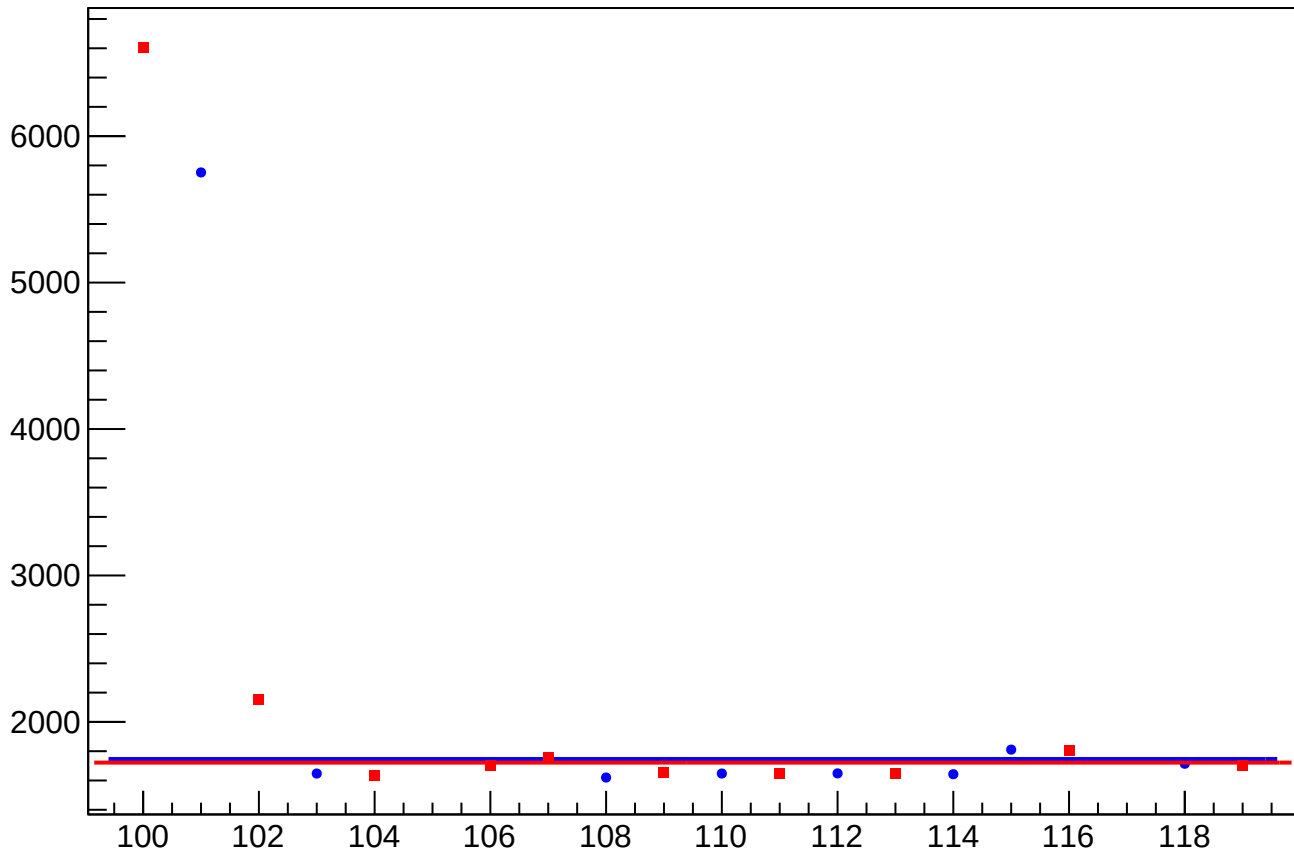
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -848.403 $\pm$ 666.166  $\chi^2$ /NDF: 23.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1746.518+/-0.716  $\chi^2/\text{NDF}$ : 652449.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1722.201+/-0.621  $\chi^2/\text{NDF}$ : 127655.1/9

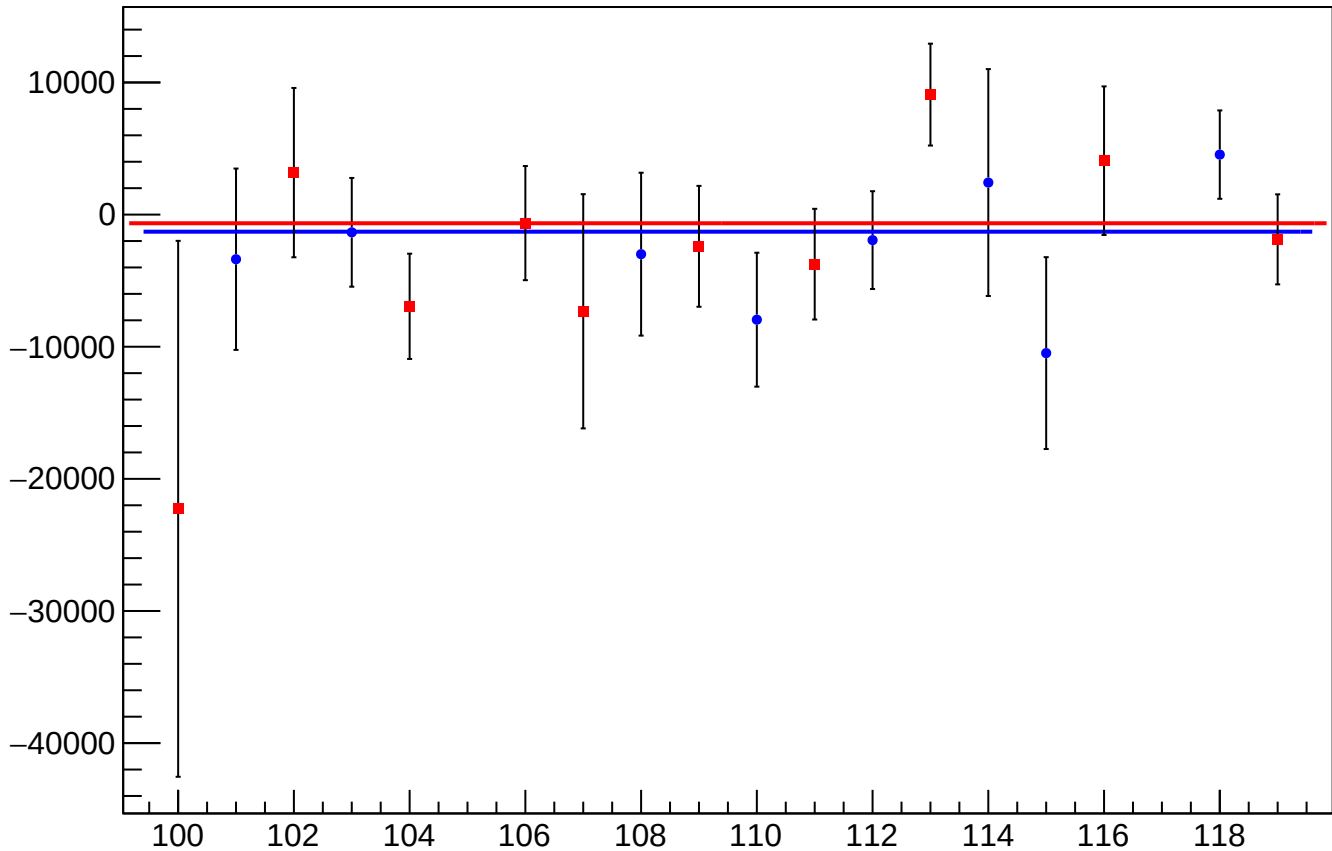
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1732.645+/-0.469  $\chi^2/\text{NDF}$ : 780762.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -1293.505 $\pm$ 1713.757  $\chi^2$ /NDF: 6.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -654.778 $\pm$ 1497.431  $\chi^2$ /NDF: 12.5/9

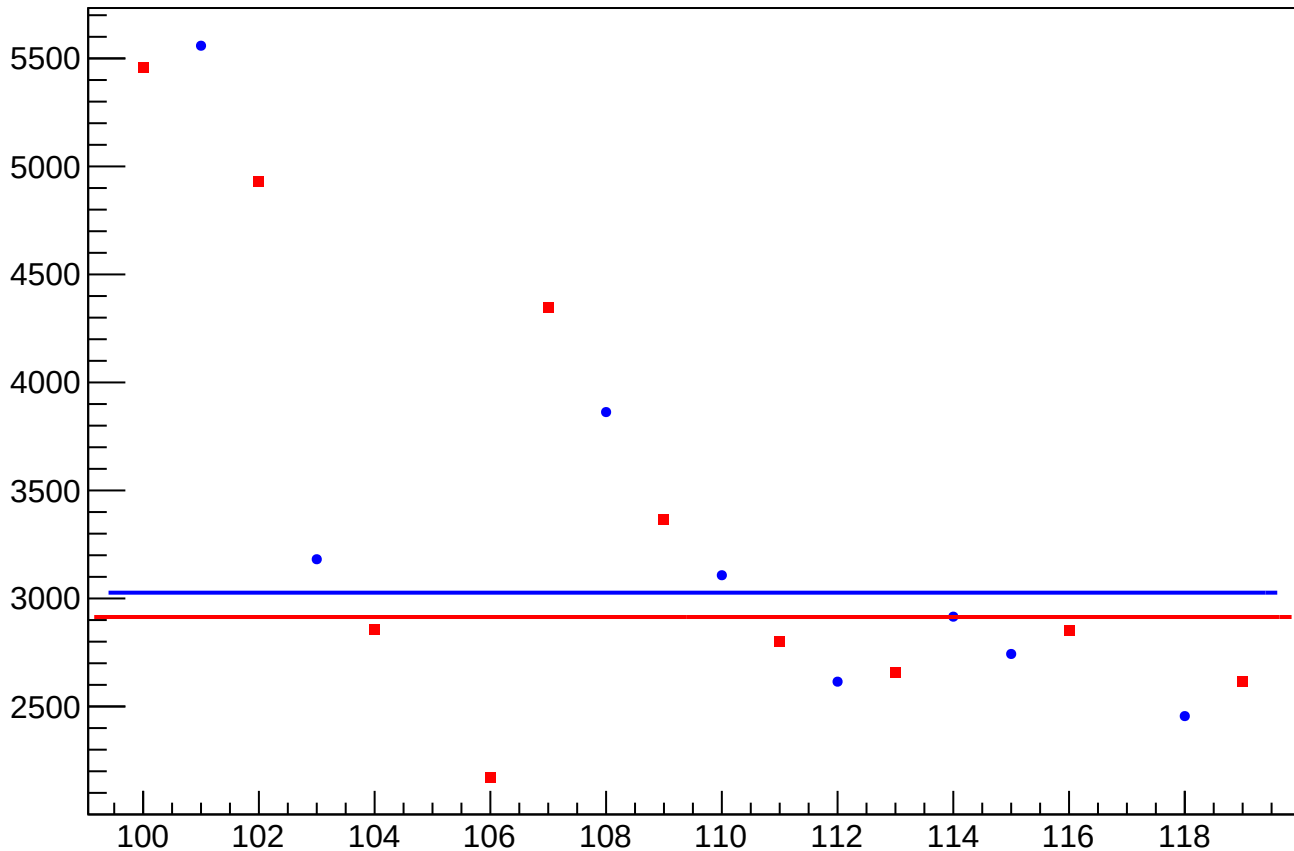
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -931.307 $\pm$ 1127.618  $\chi^2$ /NDF: 19.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 3026.801+/-1.212  $\chi^2/\text{NDF}$ : 398956.5/7

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: 2914.166+/-1.059  $\chi^2/\text{NDF}$ : 386207.7/9

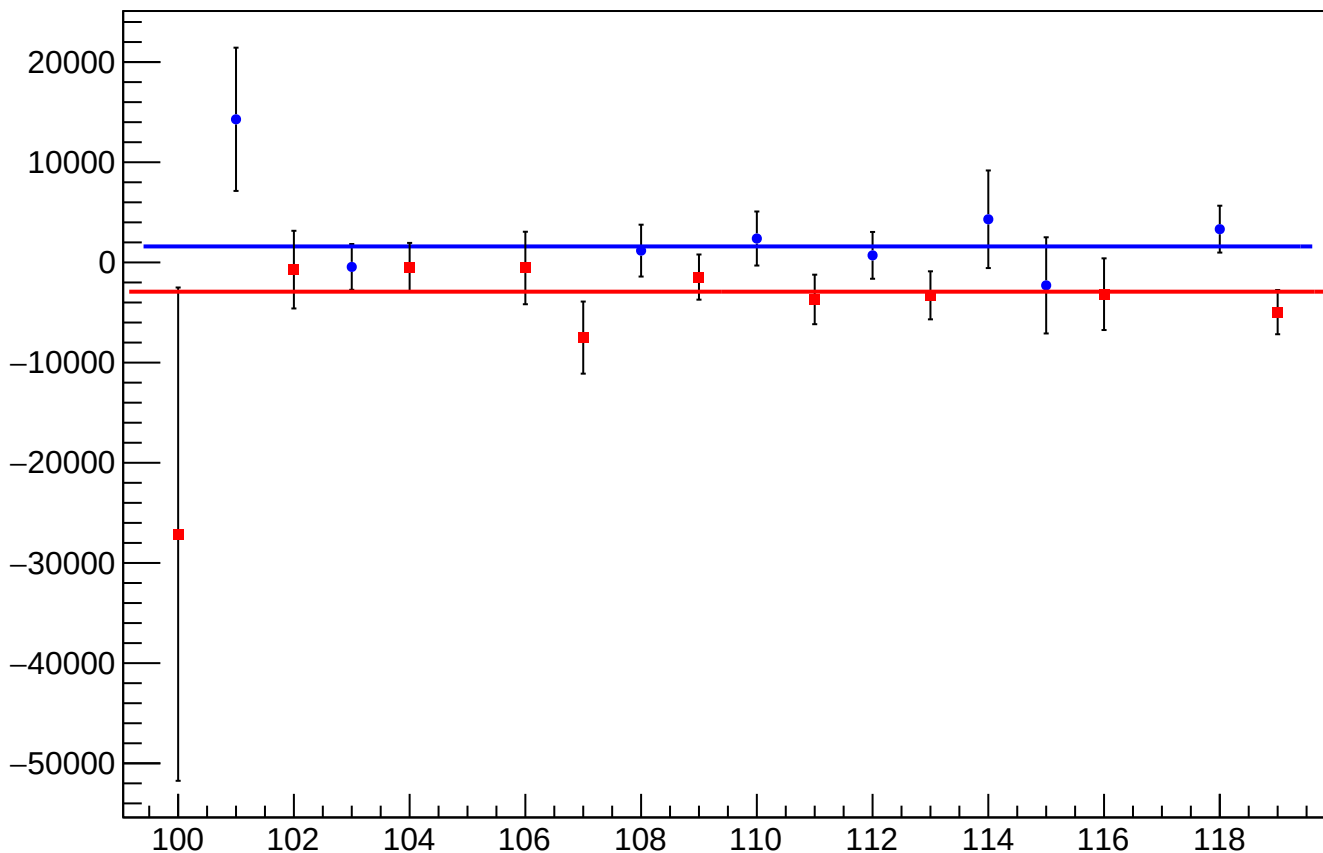
All: 2962.930+/-0.797  $\chi^2/\text{NDF}$ : 790063.2/17

- 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\_atr1l2\_avg\_mean vs Slug



Right In: 1597.211+/-1026.404  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2919.513+/-909.961  $\chi^2/\text{NDF}$ : 5.7/9

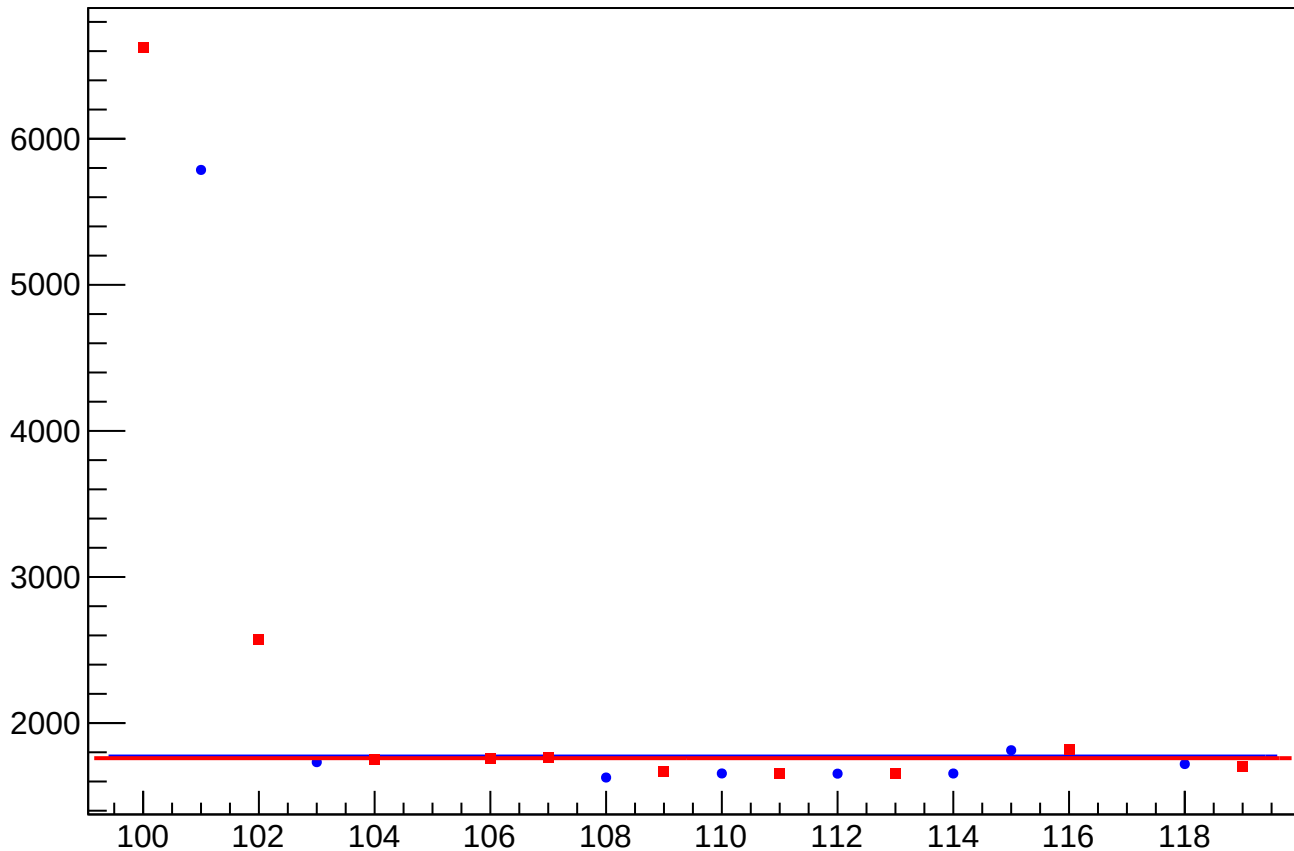
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -931.784+/-680.903  $\chi^2/\text{NDF}$ : 22.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1770.828+/-0.726  $\chi^2/\text{NDF}$ : 648637.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1759.604+/-0.640  $\chi^2/\text{NDF}$ : 179326.4/9

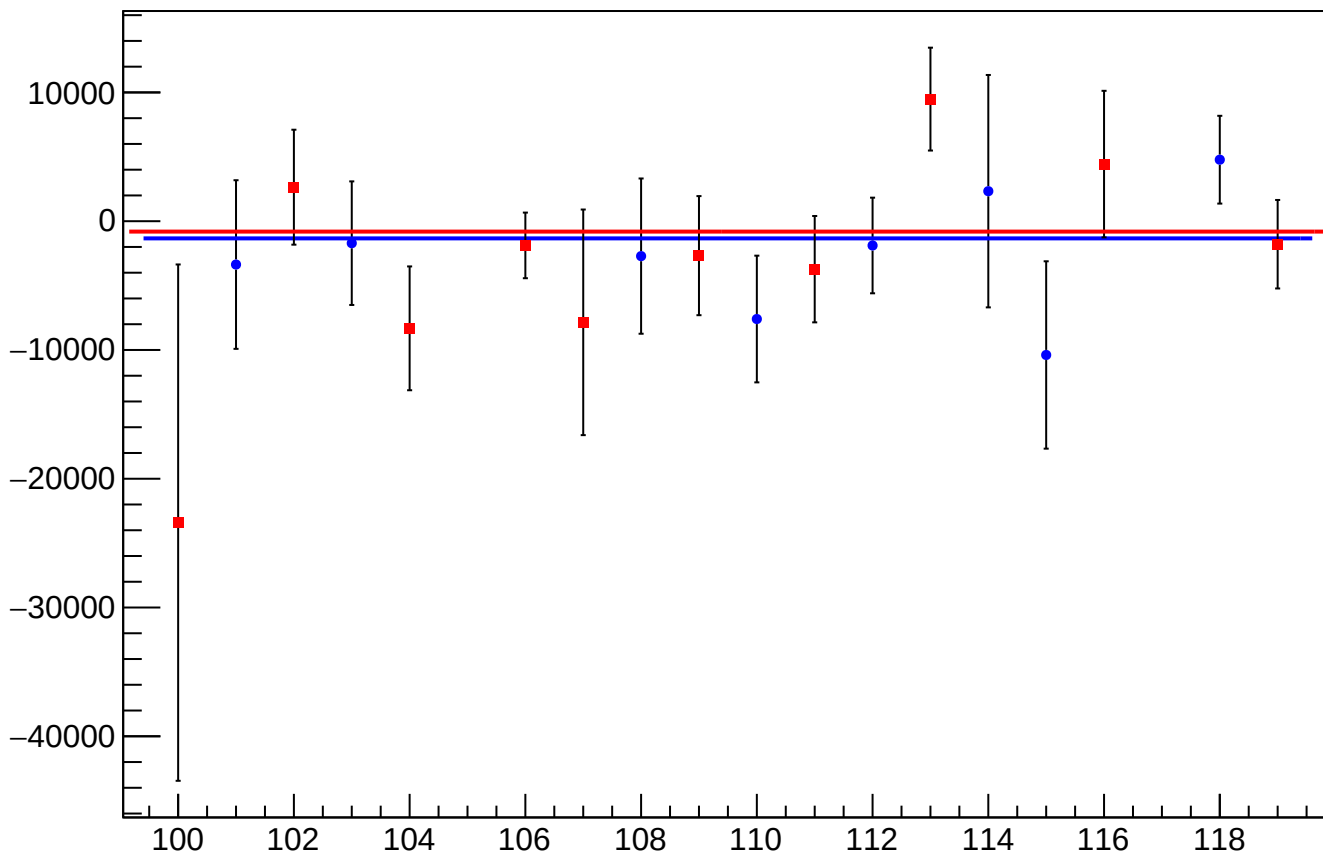
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1764.515+/-0.480  $\chi^2/\text{NDF}$ : 828098.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_dit\_correction\_mean vs Slug



Right In: -1334.929+/-1753.175  $\chi^2$ /NDF: 6.7/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -807.019+/-1352.568  $\chi^2$ /NDF: 13.4/9

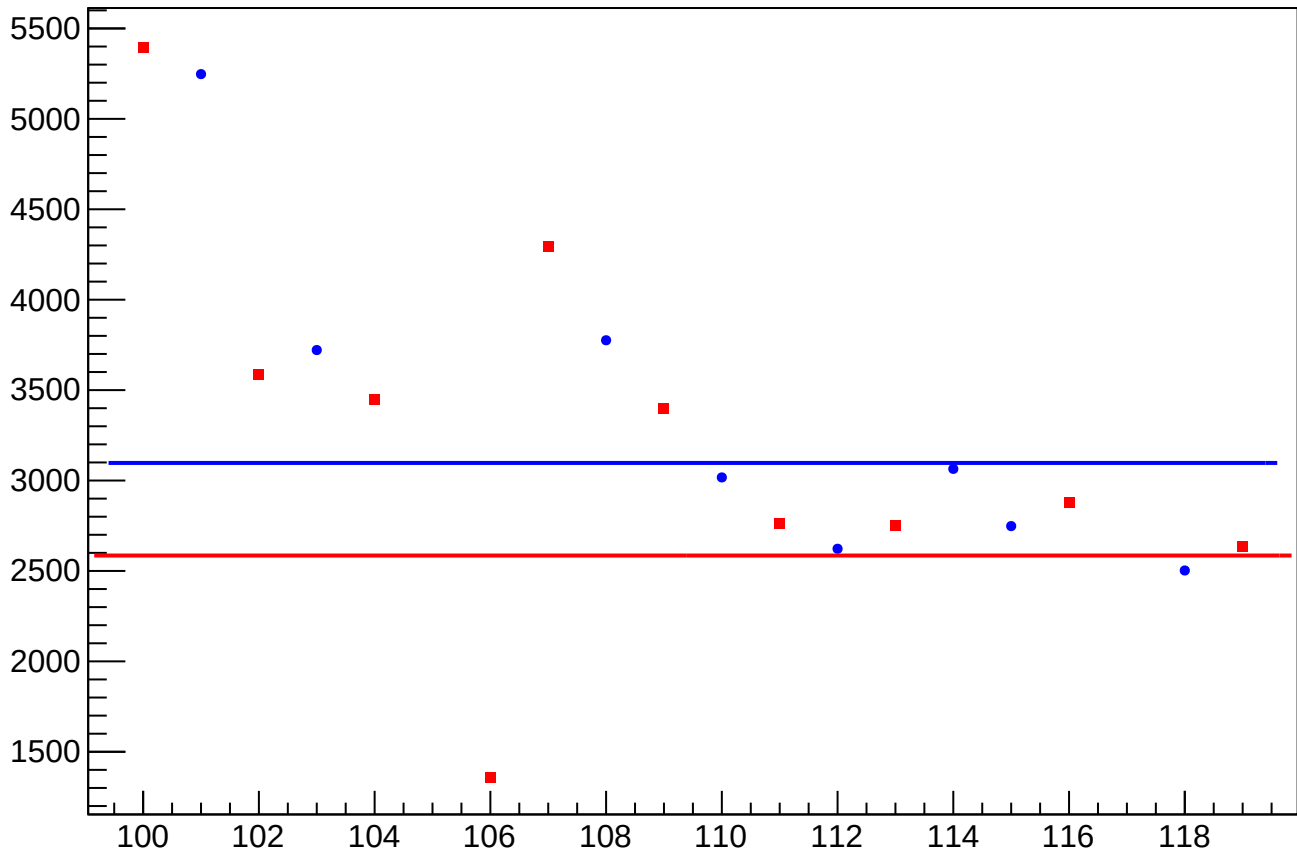
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1003.994+/-1070.904  $\chi^2$ /NDF: 20.1/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_avg\_dit\_correction\_rms vs Slug



Right In: 3097.327+/-1.240  $\chi^2/\text{NDF}$ : 373561.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2585.329+/-0.956  $\chi^2/\text{NDF}$ : 819928.9/9

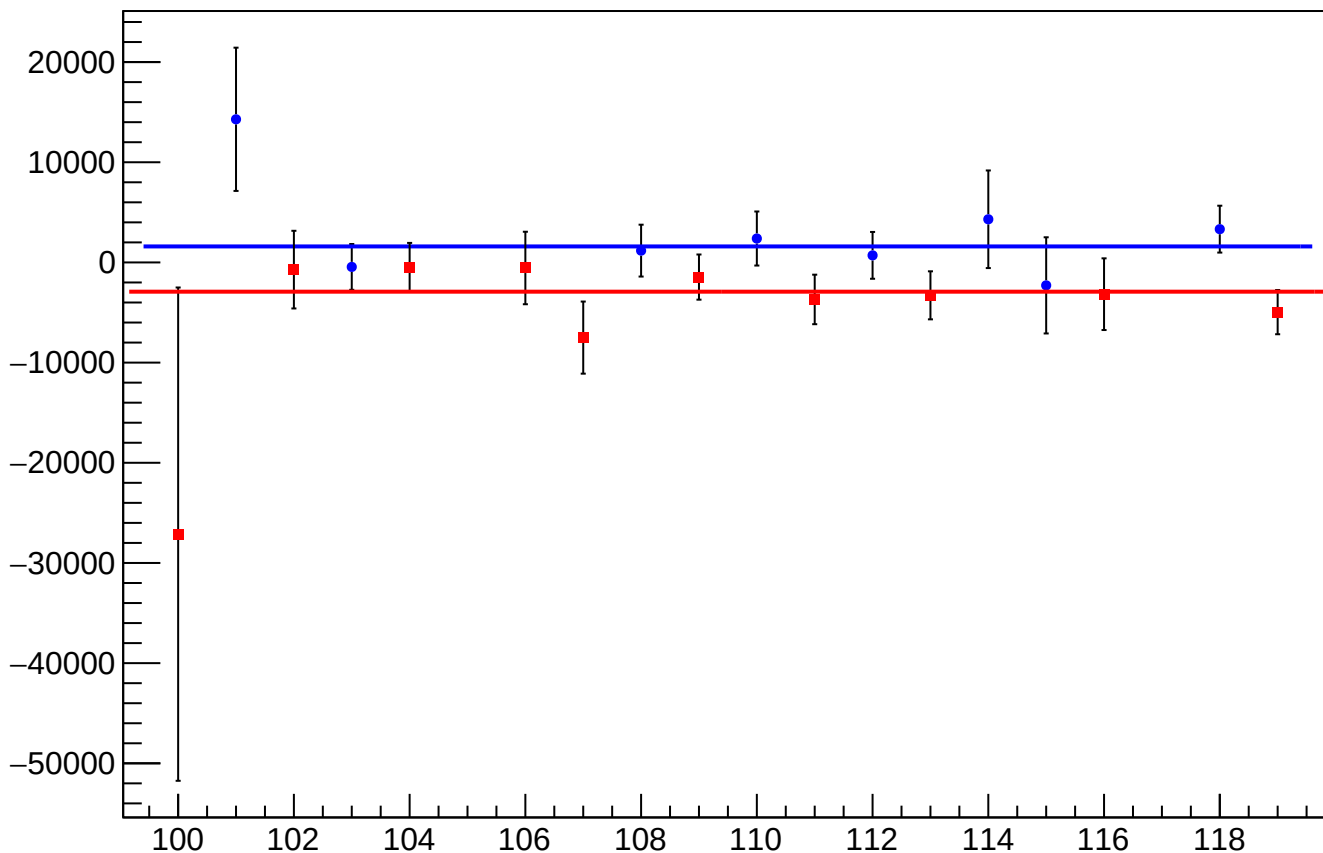
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2776.367+/-0.757  $\chi^2/\text{NDF}$ : 1300420.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atr1l2\_avg\_mean vs Slug



Right In: 1597.221+/-1026.404  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2919.520+/-909.961  $\chi^2/\text{NDF}$ : 5.7/9

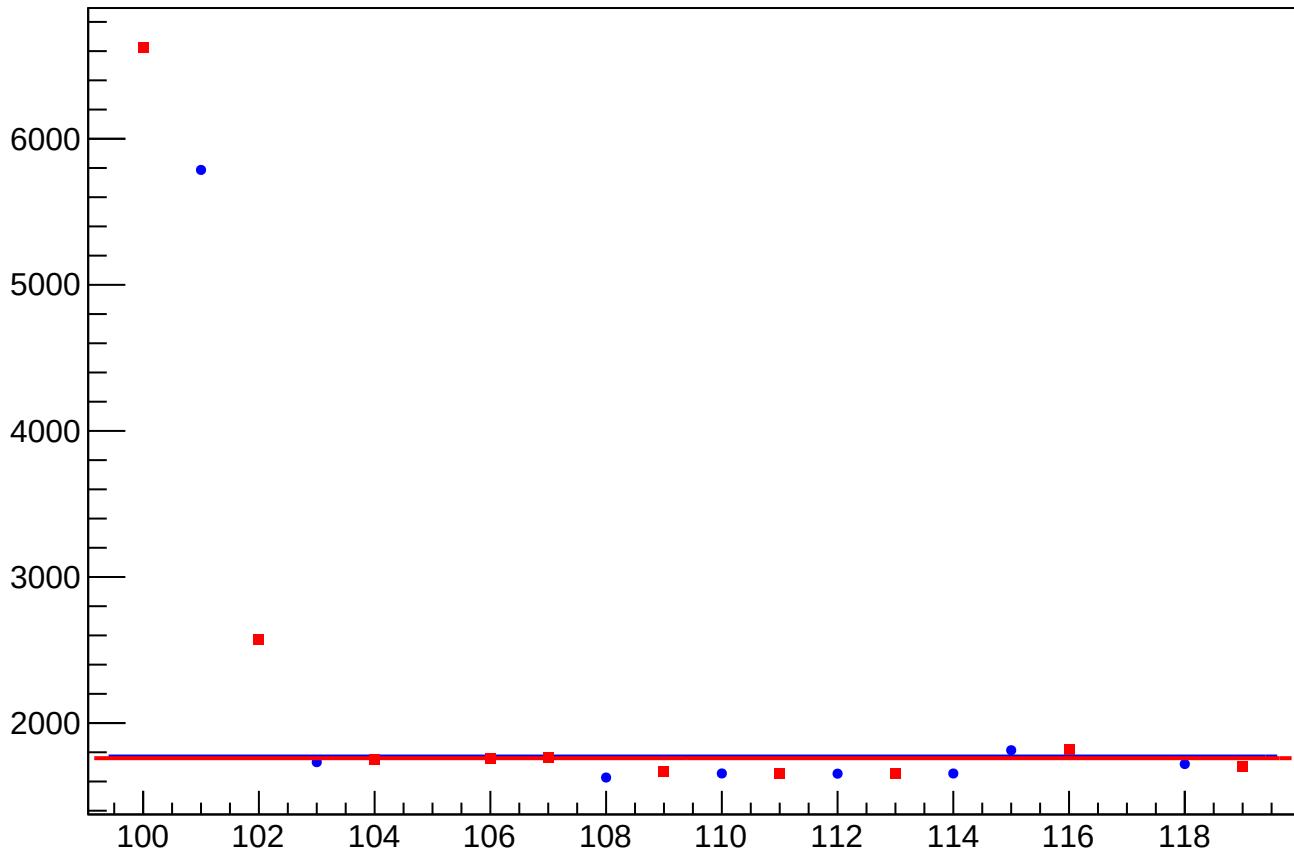
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -931.784+/-680.903  $\chi^2/\text{NDF}$ : 22.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1770.828 $\pm$ 0.726  $\chi^2$ /NDF: 648637.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1759.603 $\pm$ 0.640  $\chi^2$ /NDF: 179326.3/9

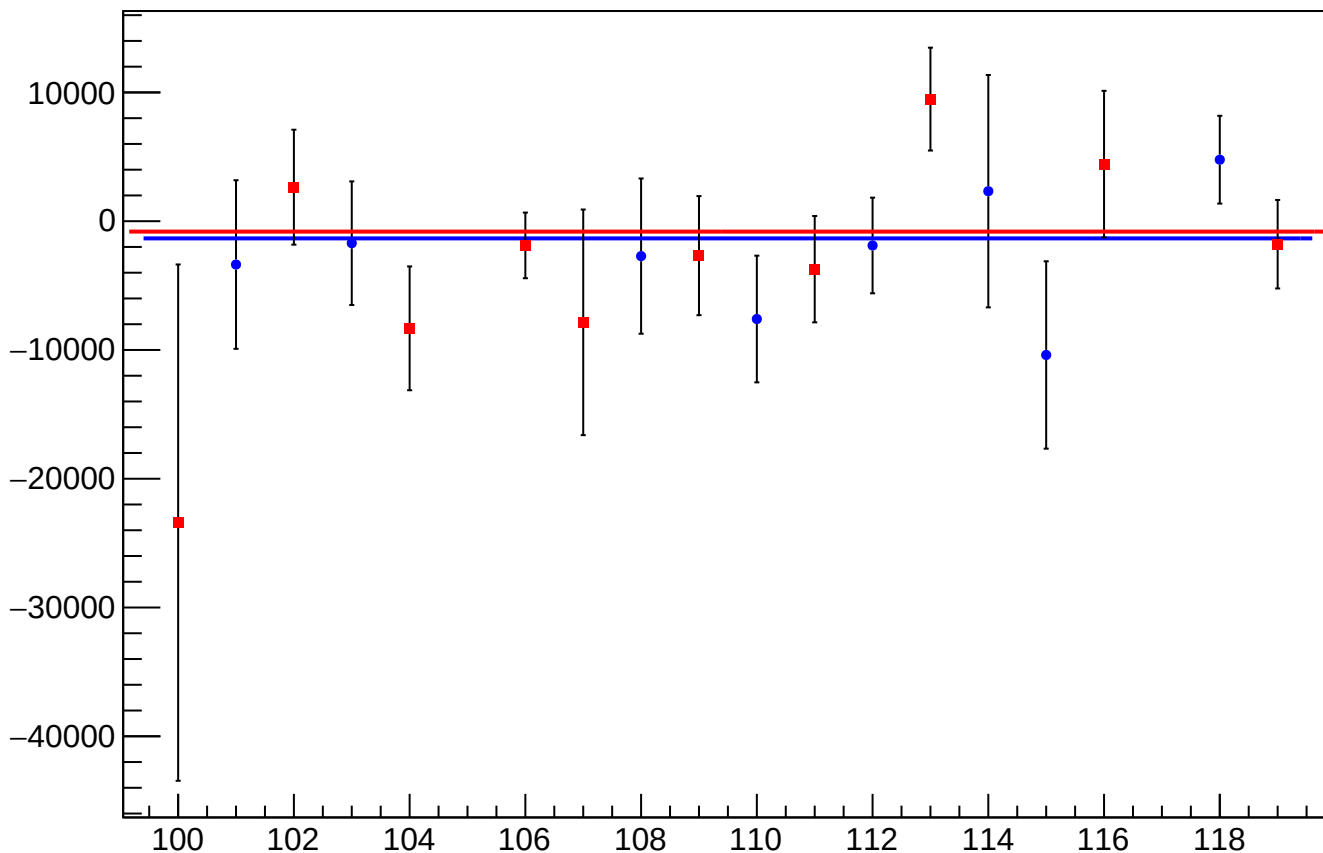
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1764.515 $\pm$ 0.480  $\chi^2$ /NDF: 828098.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -1334.918+/-1753.168  $\chi^2/\text{NDF}$ : 6.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -807.019+/-1352.562  $\chi^2/\text{NDF}$ : 13.4/9

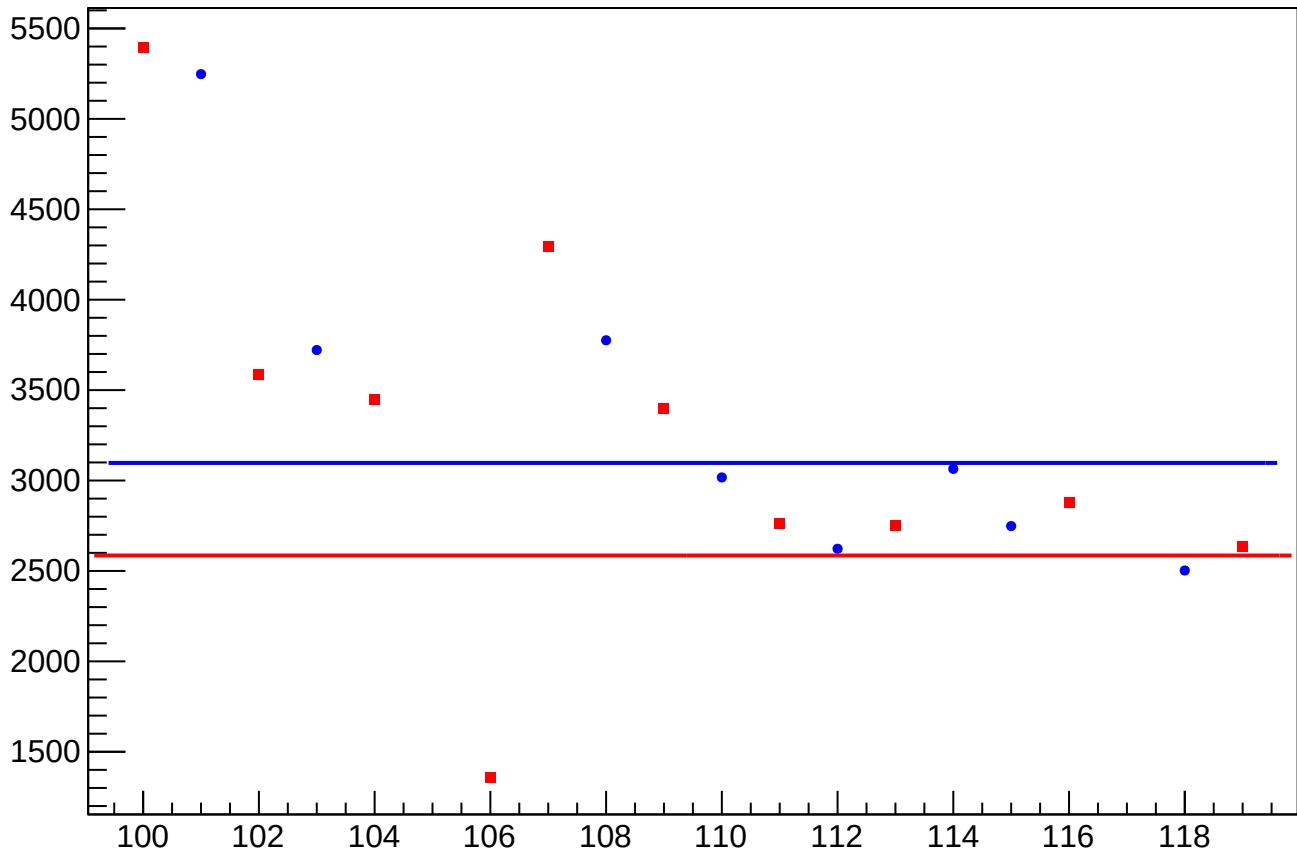
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1003.989+/-1070.900  $\chi^2/\text{NDF}$ : 20.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 3097.315+/-1.240  $\chi^2/\text{NDF}$ : 373565.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2585.314+/-0.956  $\chi^2/\text{NDF}$ : 819942.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

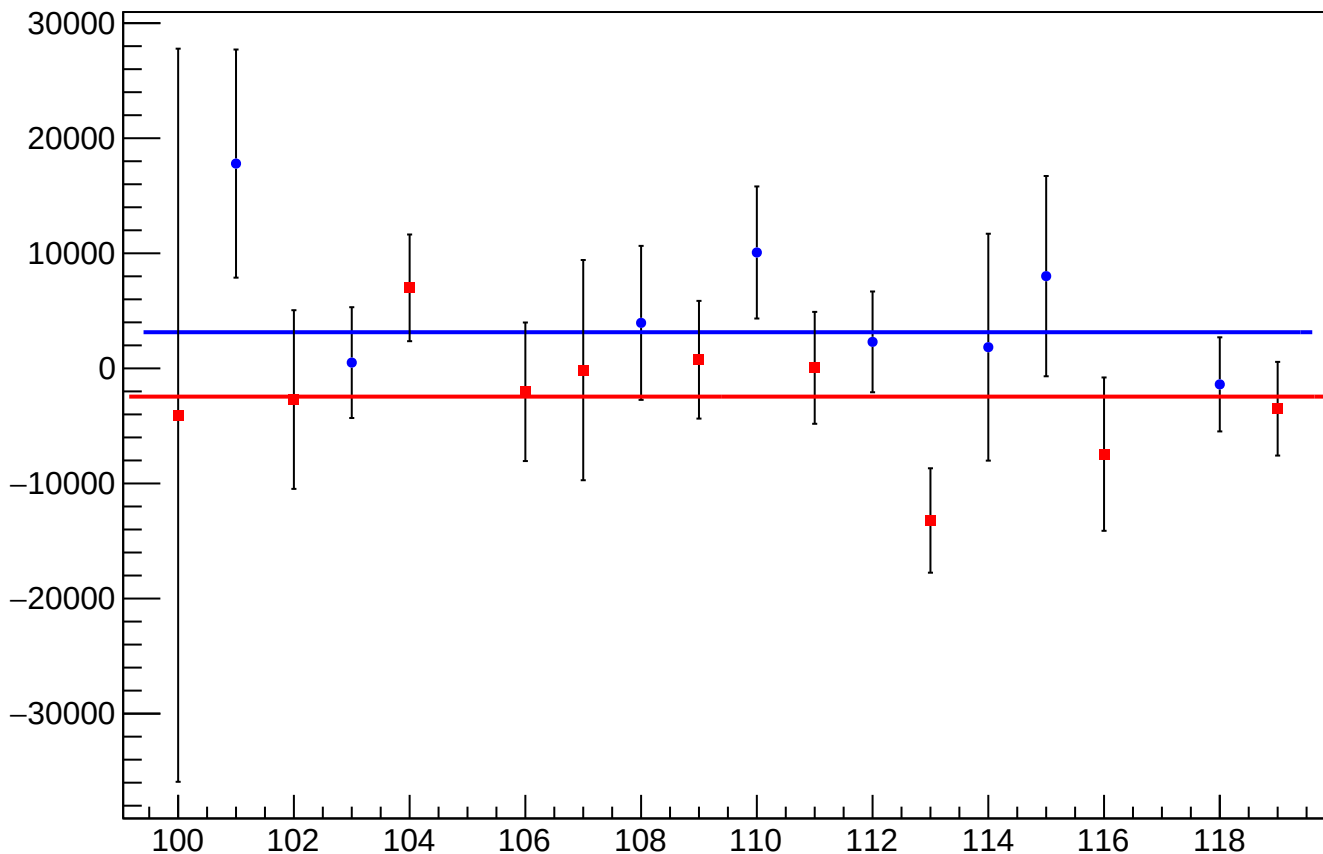
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2776.353+/-0.757  $\chi^2/\text{NDF}$ : 1300439.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atr1l2\_avg\_mean vs Slug



Right In: 3143.042 $\pm$ 2034.983  $\chi^2$ /NDF: 5.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2452.814 $\pm$ 1782.809  $\chi^2$ /NDF: 11.1/9

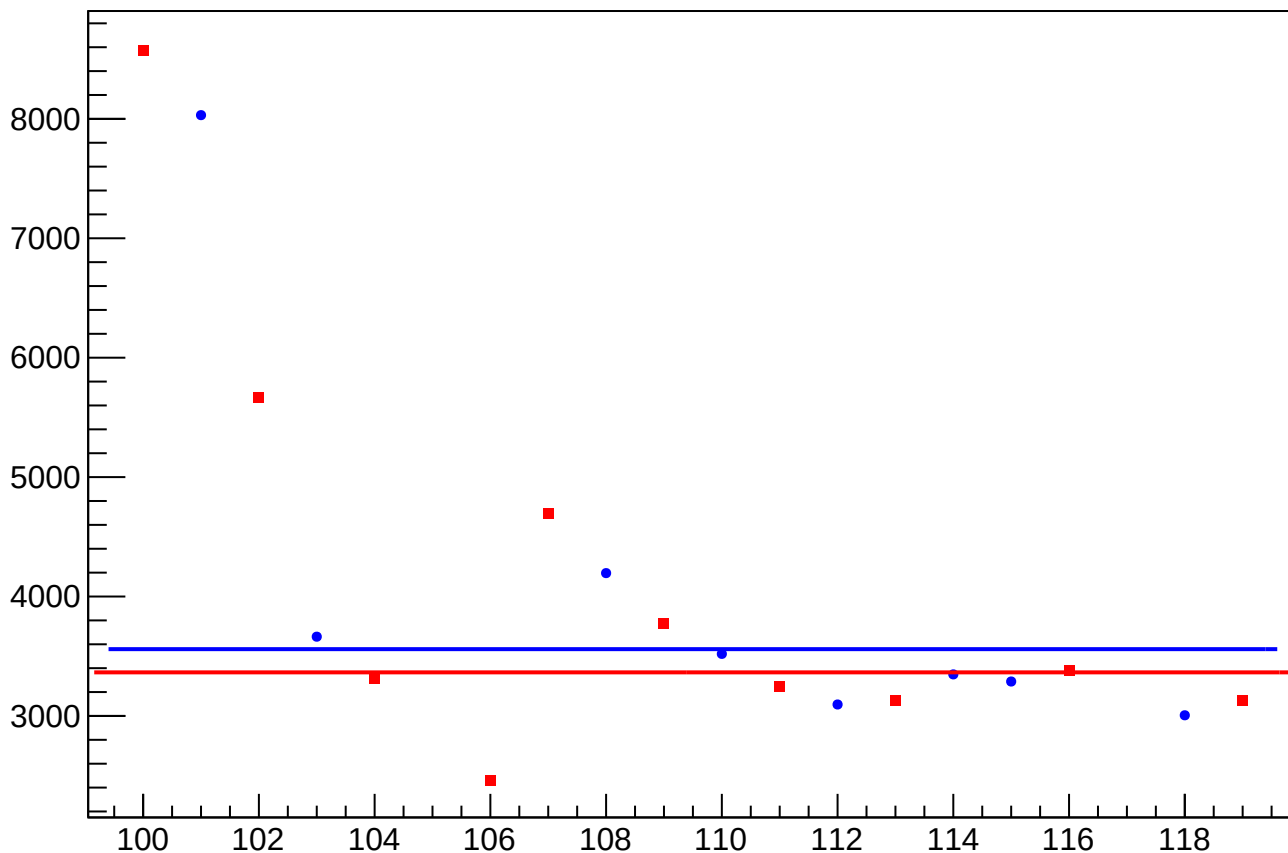
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -22.900 $\pm$ 1340.982  $\chi^2$ /NDF: 21.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_avg\_rms vs Slug



Right In: 3559.313+/-1.439  $\chi^2/\text{NDF}$ : 488185.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3364.879+/-1.227  $\chi^2/\text{NDF}$ : 367159.5/9

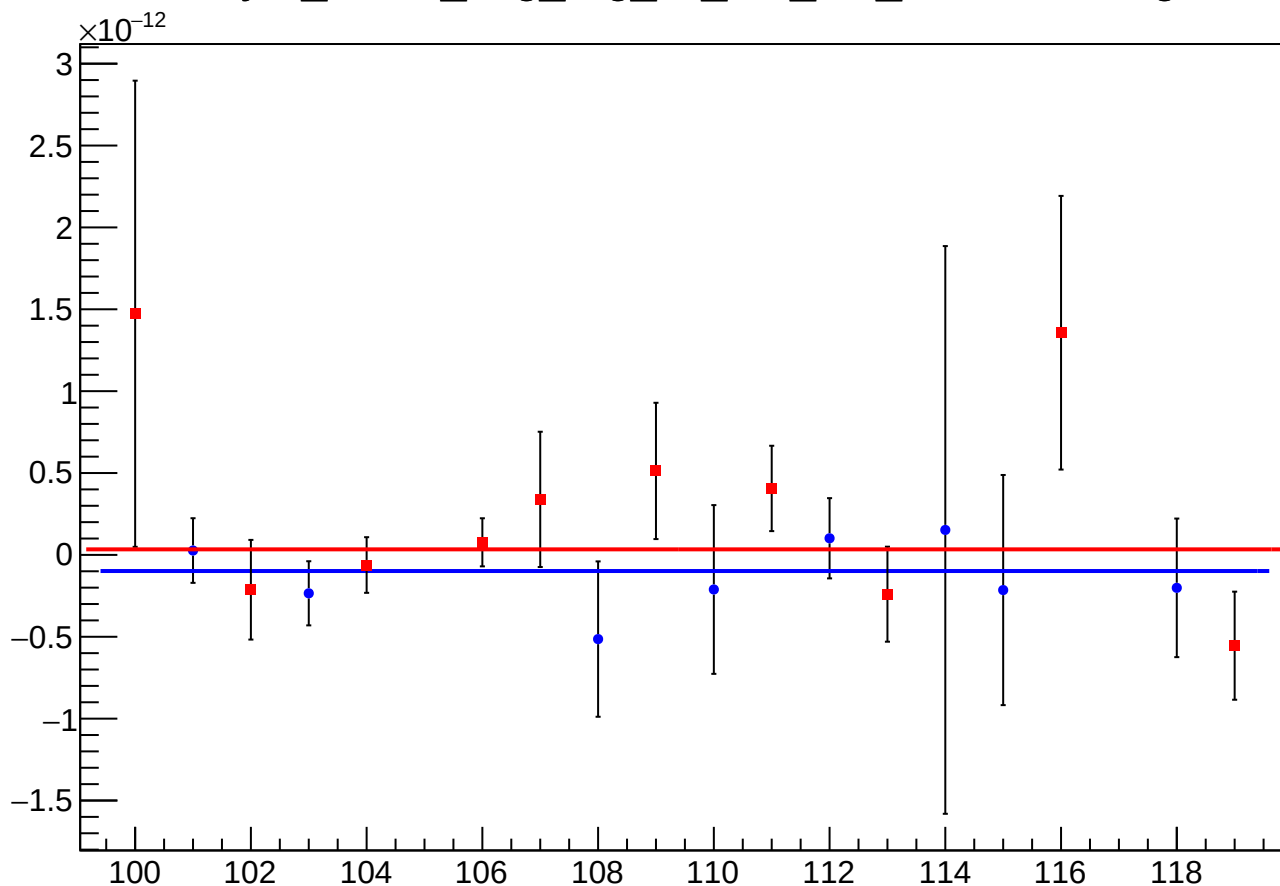
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3446.734+/-0.934  $\chi^2/\text{NDF}$ : 865916.5/17

- 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  $\chi^2$ /NDF: 2.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.6/9

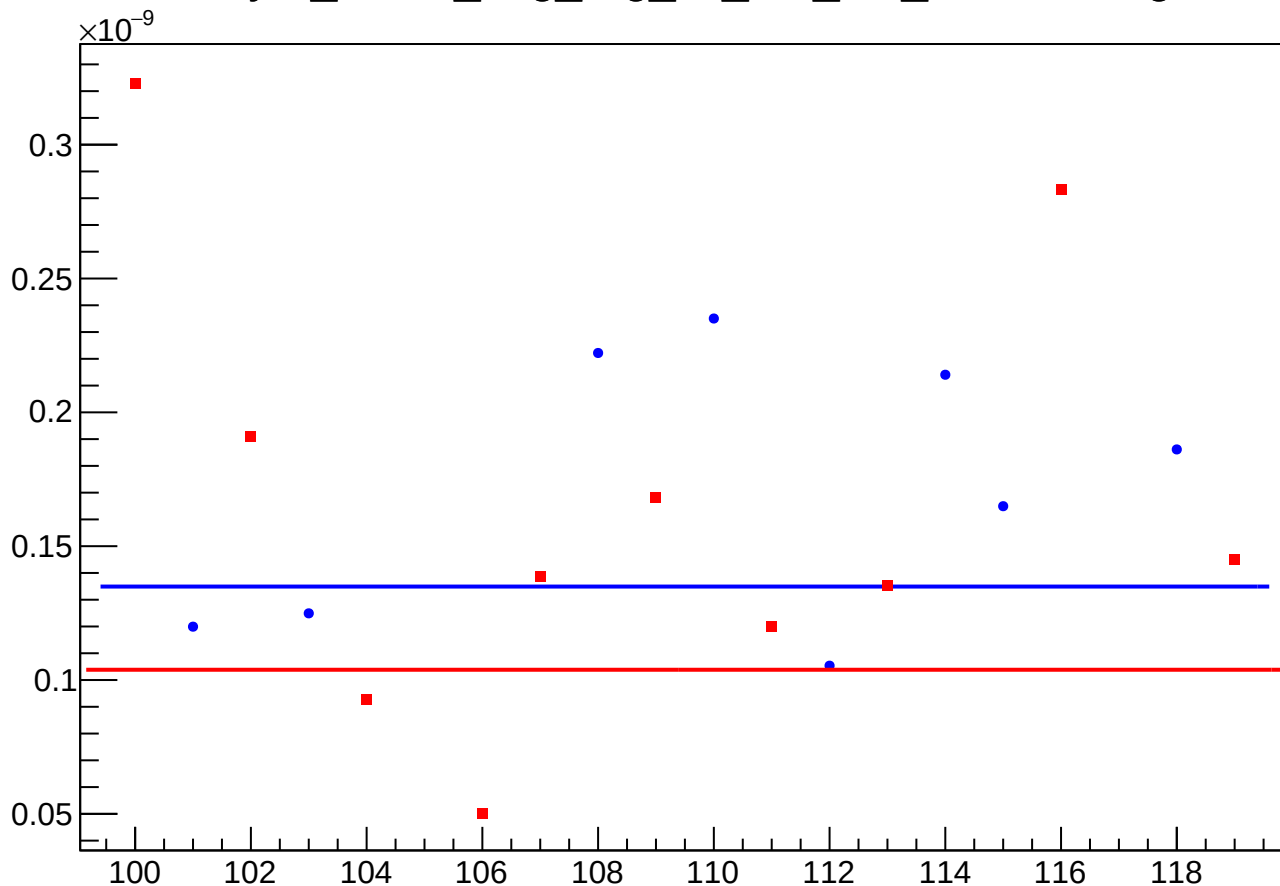
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 226186.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 703546.5/9

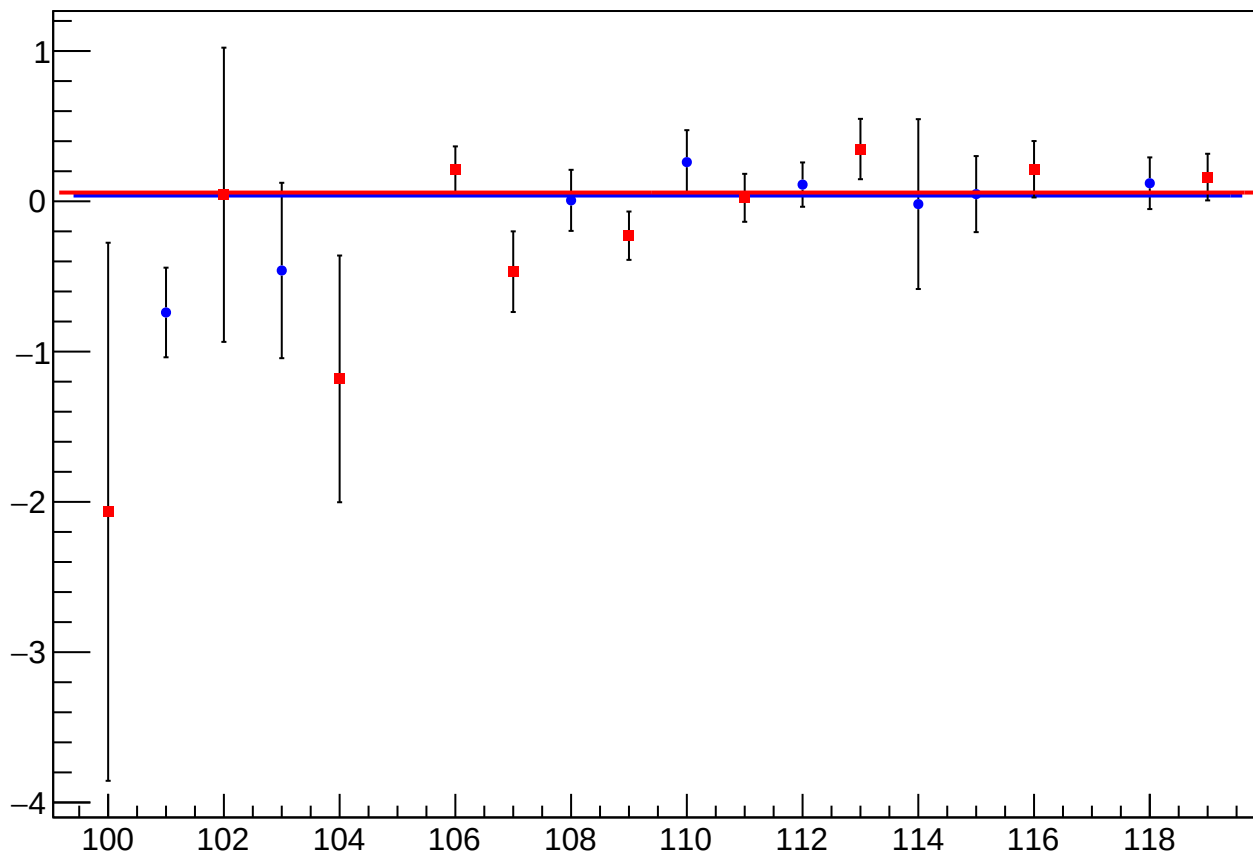
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1031894.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.038 $\pm$ 0.079  $\chi^2$ /NDF: 9.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.058 $\pm$ 0.066  $\chi^2$ /NDF: 15.0/9

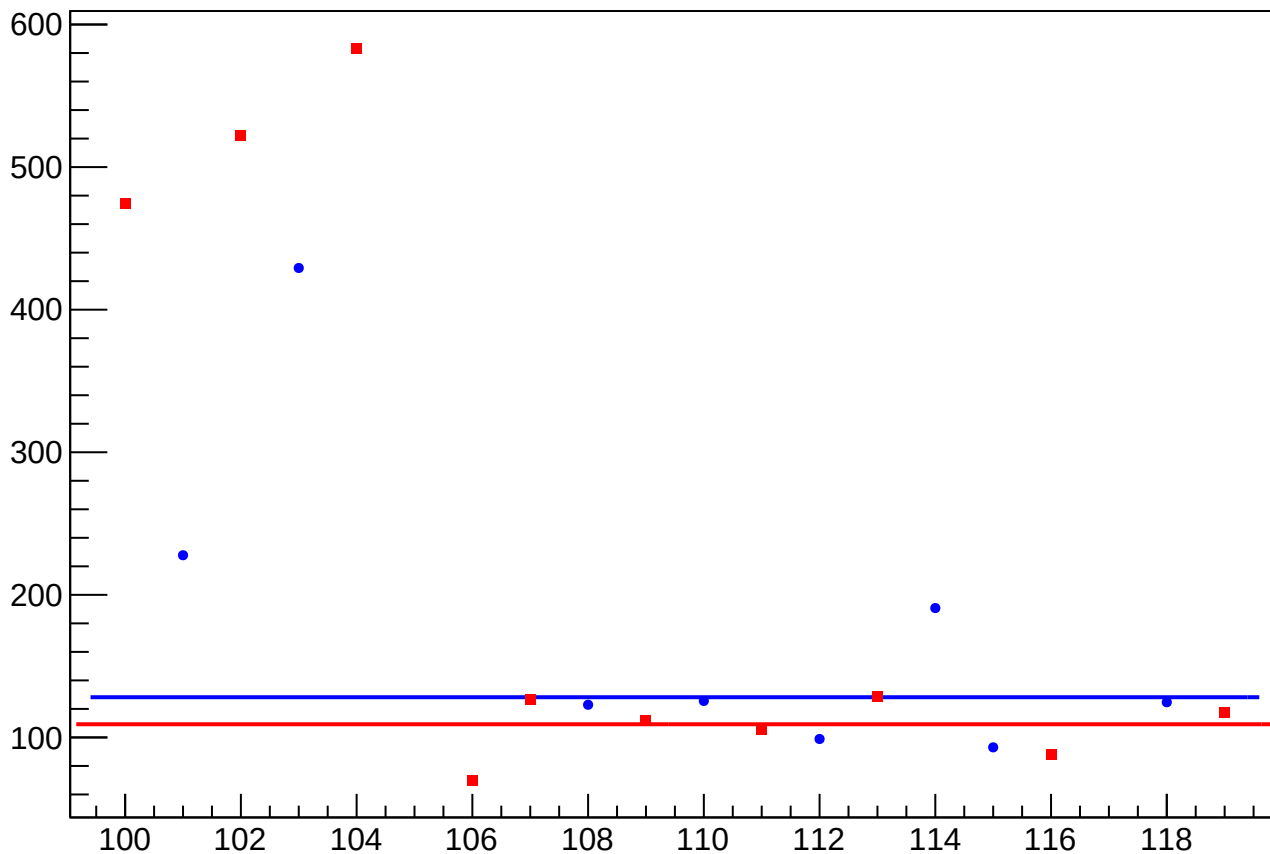
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.050 $\pm$ 0.051  $\chi^2$ /NDF: 24.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 128.201 $\pm$ 0.056  $\chi^2$ /NDF: 899927.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 109.248 $\pm$ 0.046  $\chi^2$ /NDF: 1297344.0/9

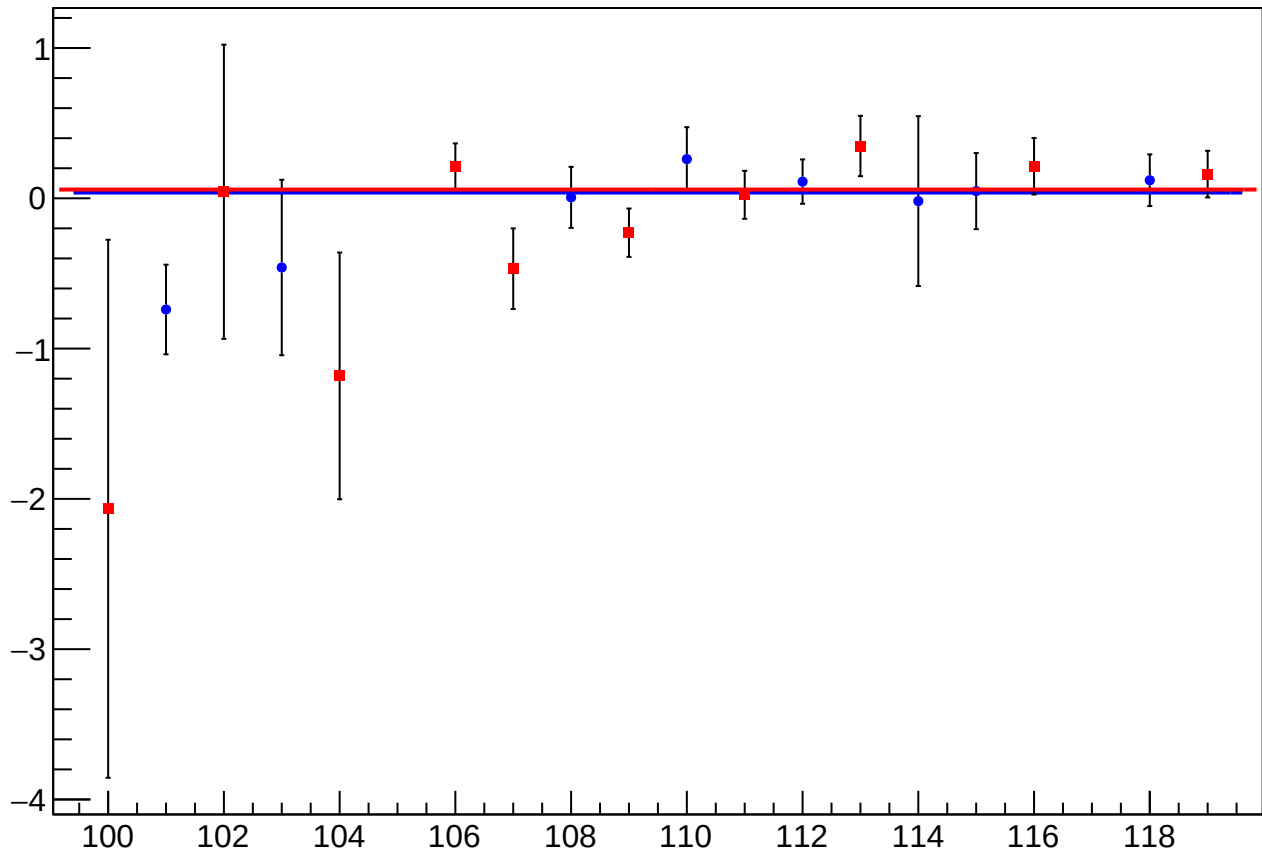
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 116.968 $\pm$ 0.036  $\chi^2$ /NDF: 2265018.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.038 $\pm$ 0.079  $\chi^2$ /NDF: 9.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.058 $\pm$ 0.066  $\chi^2$ /NDF: 15.0/9

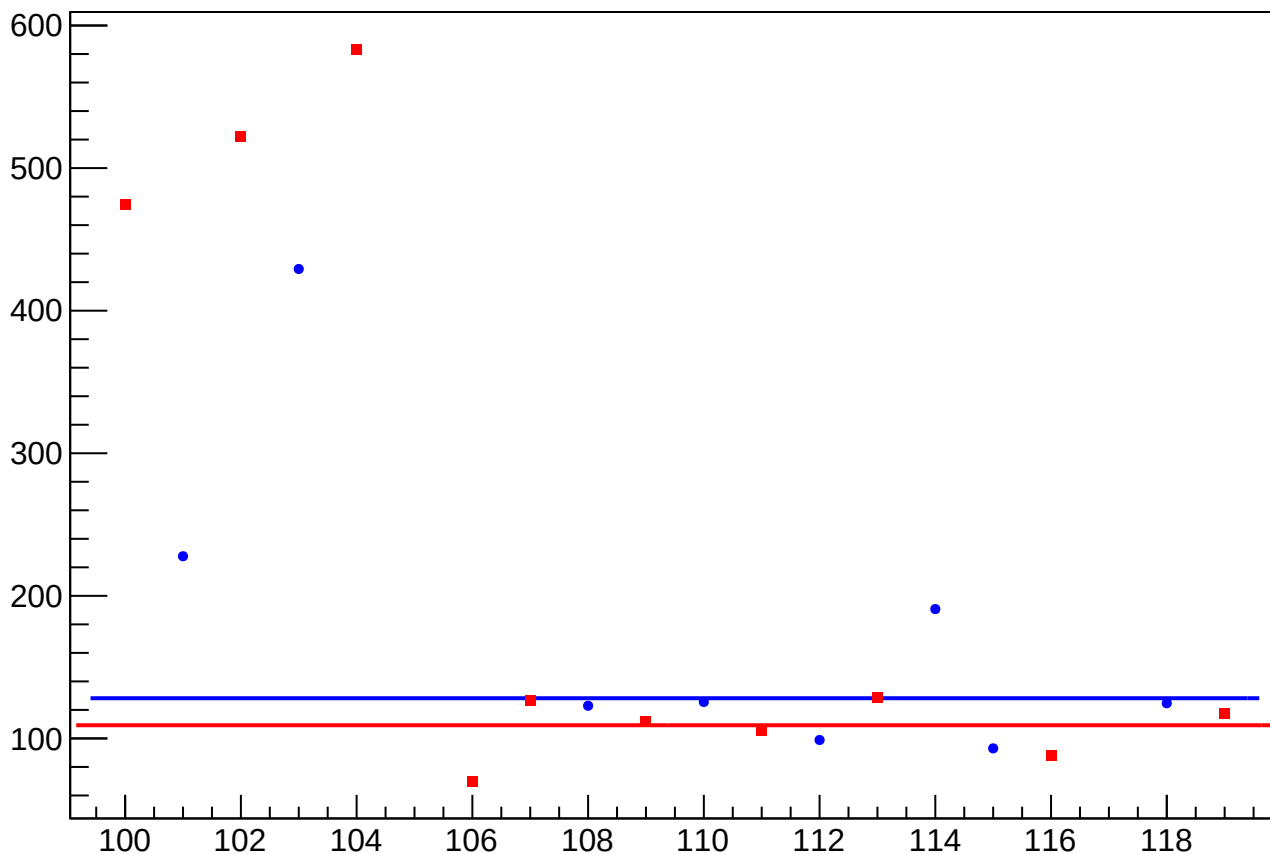
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.050 $\pm$ 0.051  $\chi^2$ /NDF: 24.1/17

- 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: 128.201 $\pm$ 0.056  $\chi^2$ /NDF: 899927.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 109.248 $\pm$ 0.046  $\chi^2$ /NDF: 1297344.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

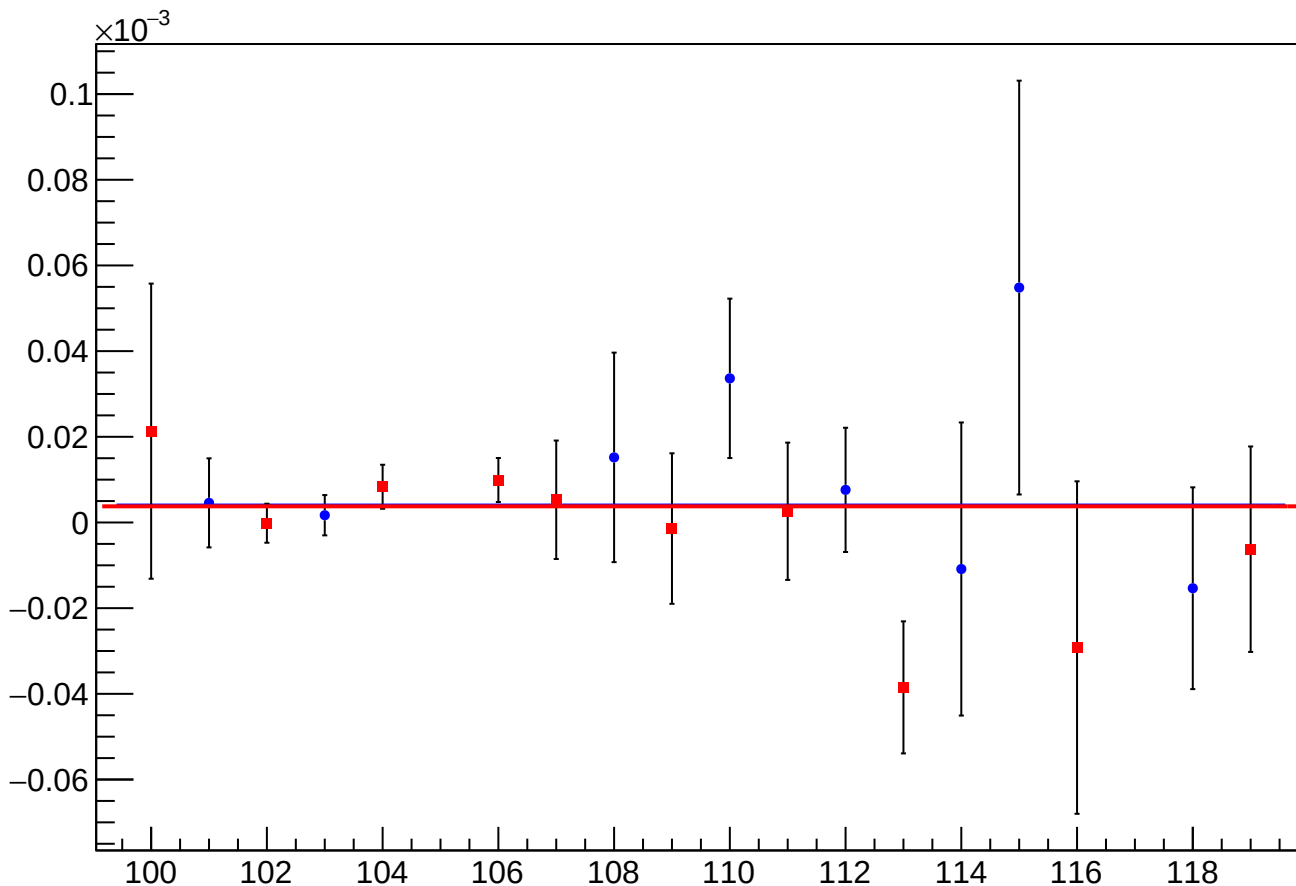
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 116.968 $\pm$ 0.036  $\chi^2$ /NDF: 2265018.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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: 5.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.7/9

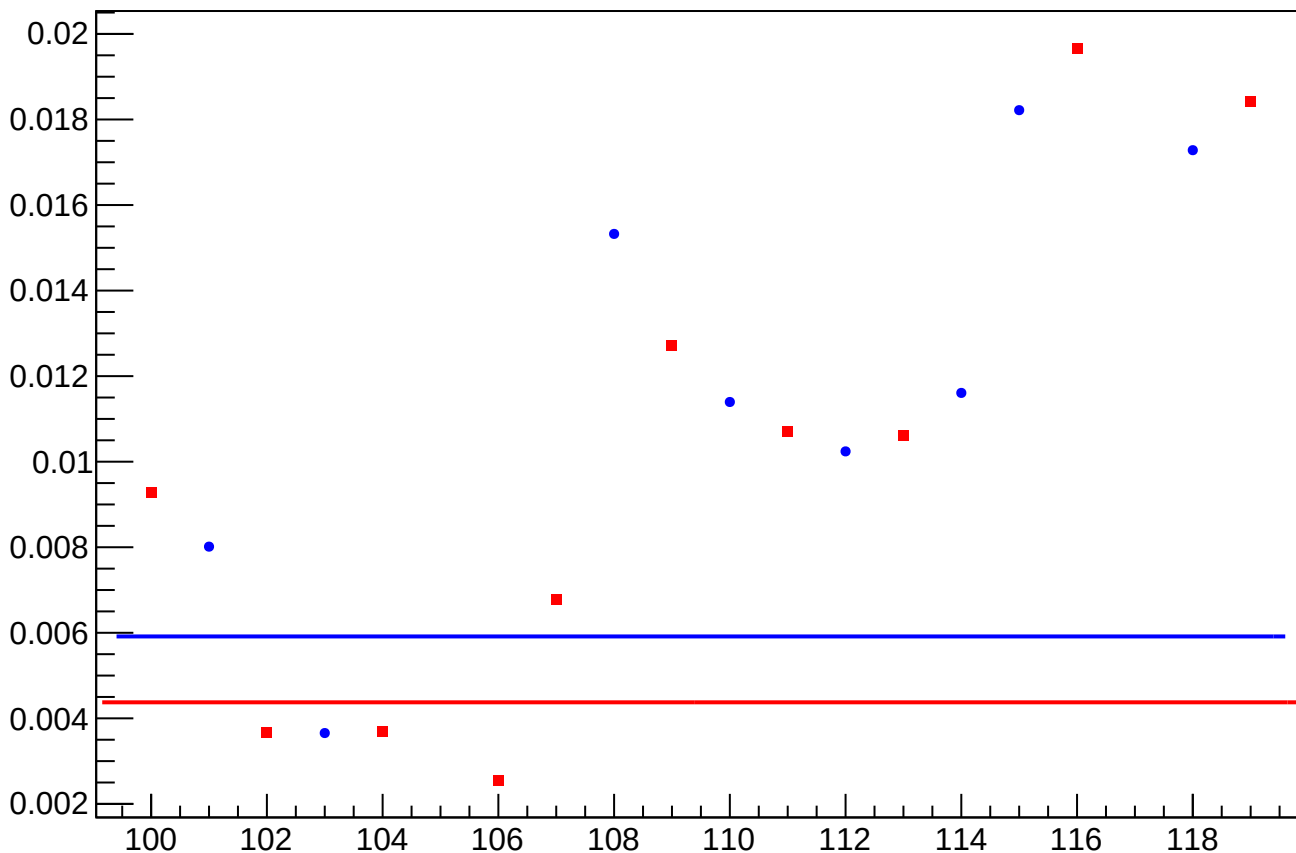
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.8/17

- 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: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1842193.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 2522863.9/9

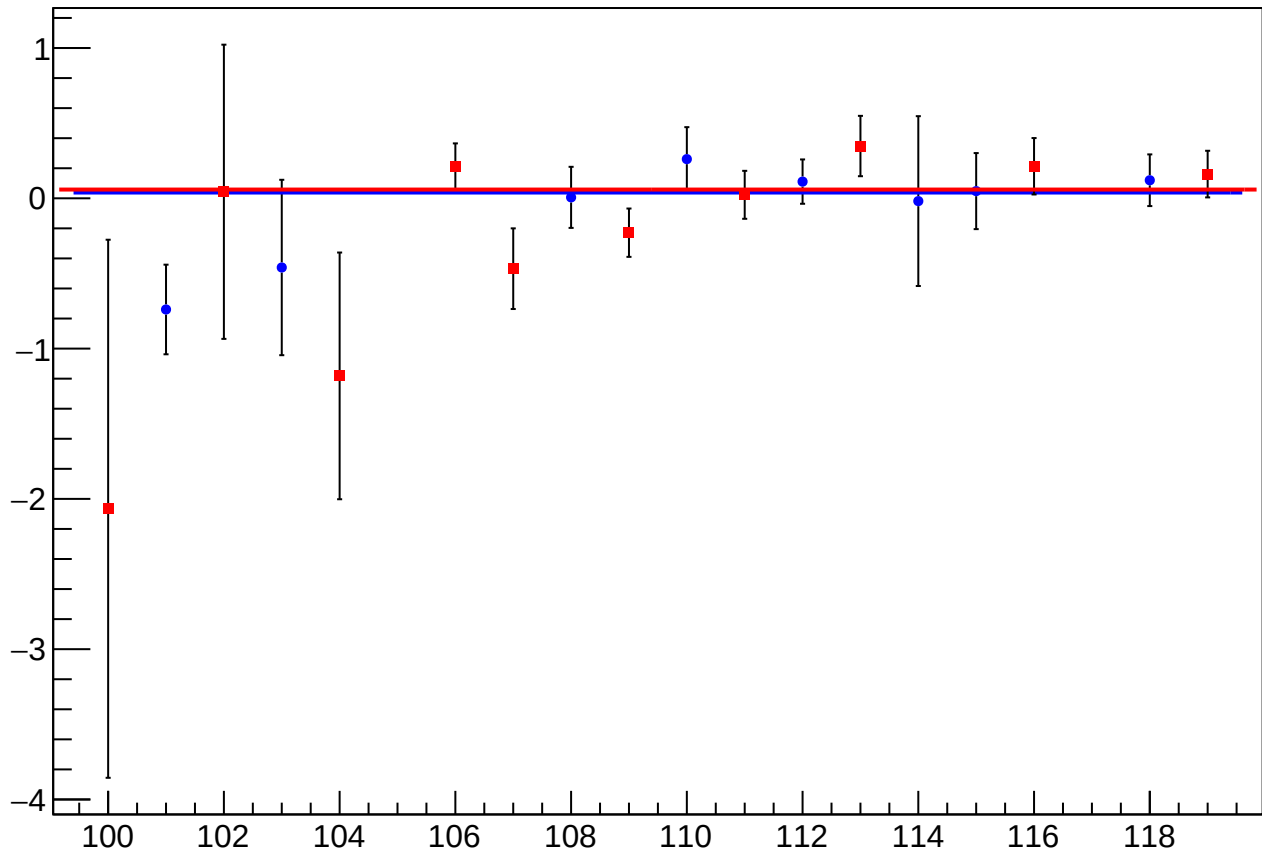
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 4581693.4/17

- 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: 0.038 $\pm$ 0.079  $\chi^2$ /NDF: 9.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.058 $\pm$ 0.066  $\chi^2$ /NDF: 15.0/9

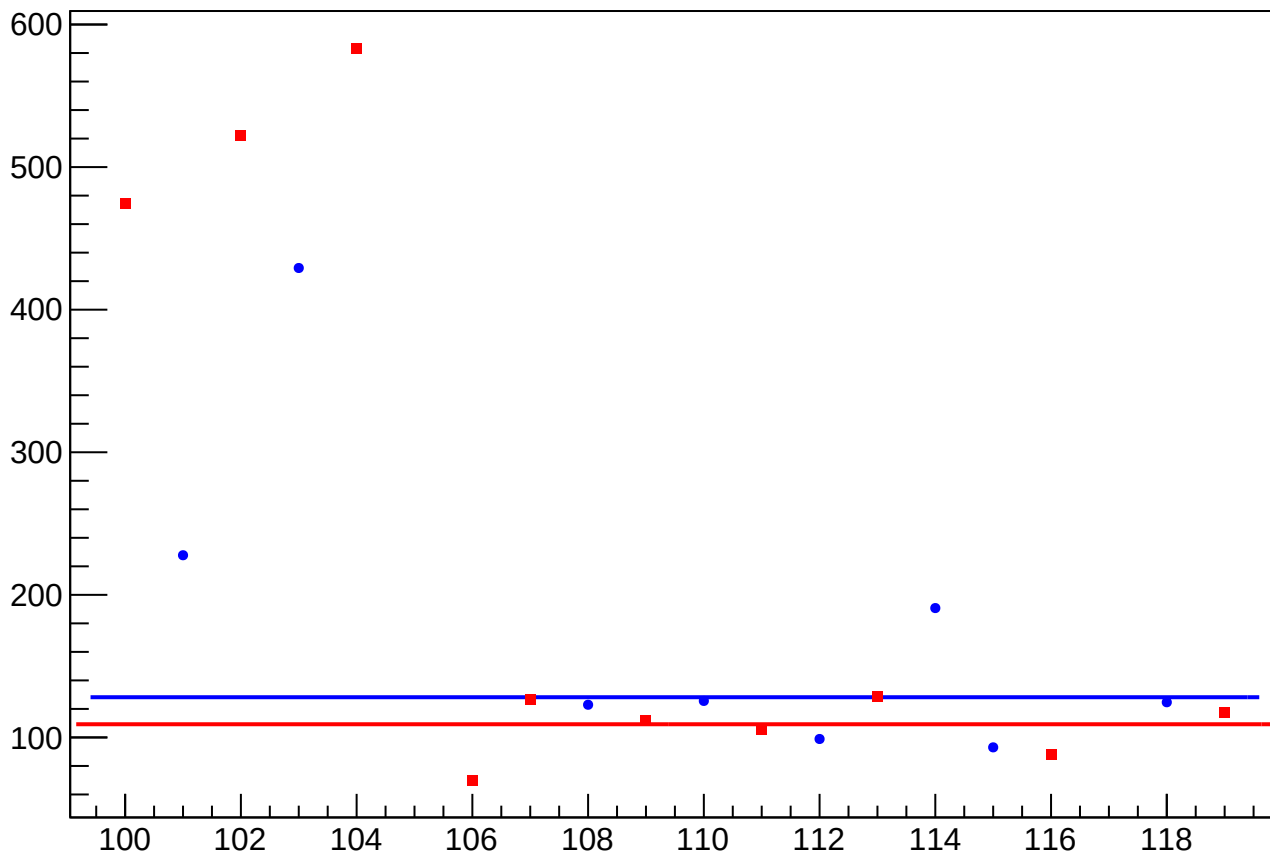
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.050 $\pm$ 0.051  $\chi^2$ /NDF: 24.1/17

- 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: 128.205 $\pm$ 0.056  $\chi^2$ /NDF: 899875.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 109.250 $\pm$ 0.046  $\chi^2$ /NDF: 1297309.6/9

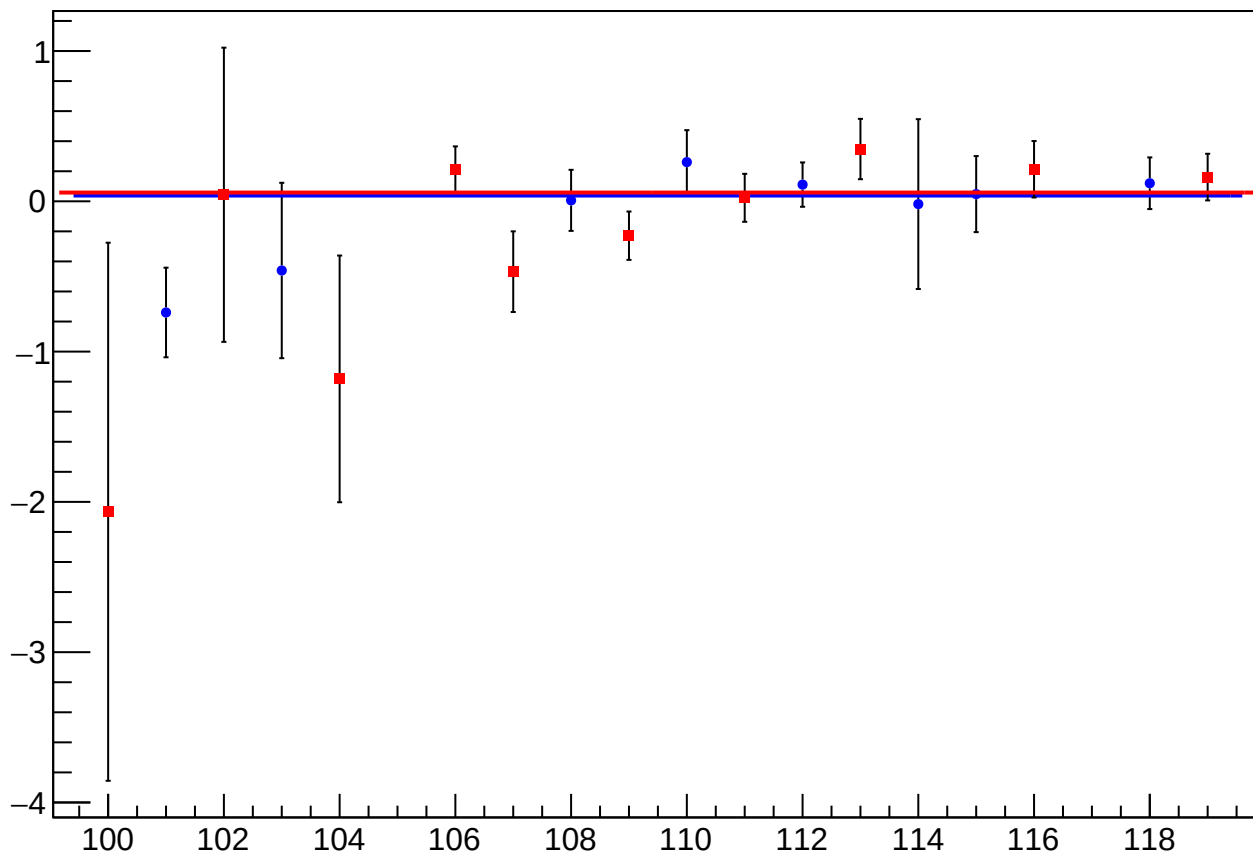
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 116.970 $\pm$ 0.036  $\chi^2$ /NDF: 2264941.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.038 $\pm$ 0.079  $\chi^2$ /NDF: 9.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.058 $\pm$ 0.066  $\chi^2$ /NDF: 15.0/9

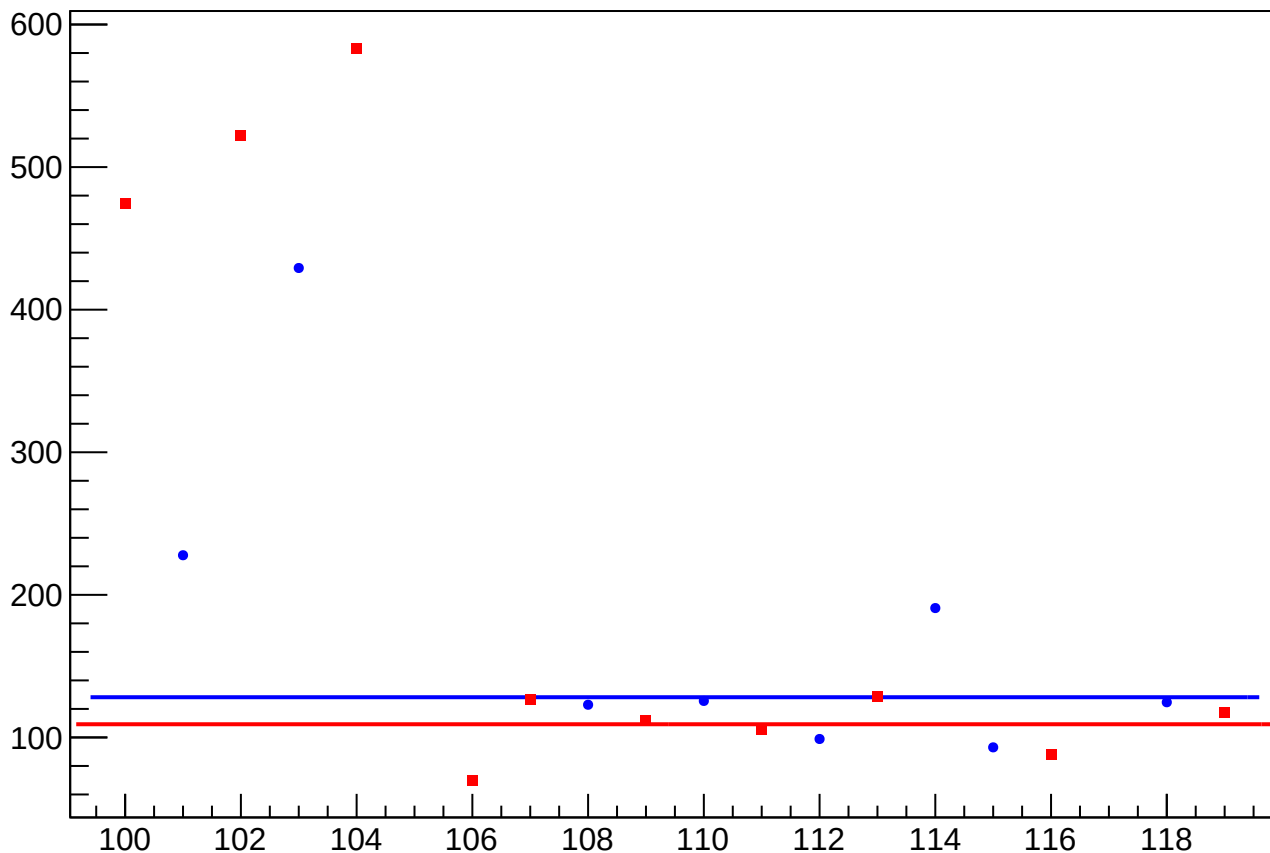
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.050 $\pm$ 0.051  $\chi^2$ /NDF: 24.1/17

- 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: 128.205+/-0.056  $\chi^2/\text{NDF}$ : 899875.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 109.250+/-0.046  $\chi^2/\text{NDF}$ : 1297309.6/9

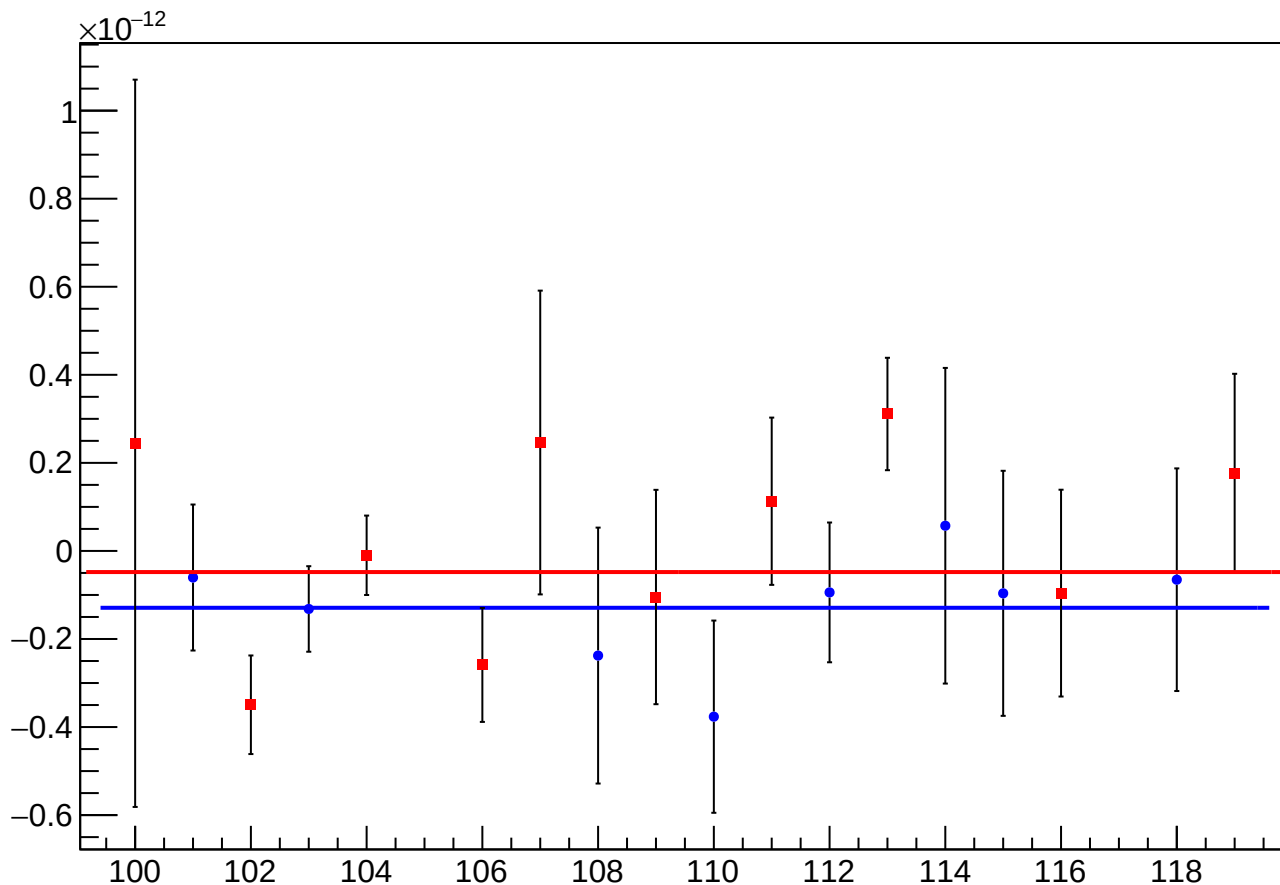
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 116.970+/-0.036  $\chi^2/\text{NDF}$ : 2264941.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 20.6/9

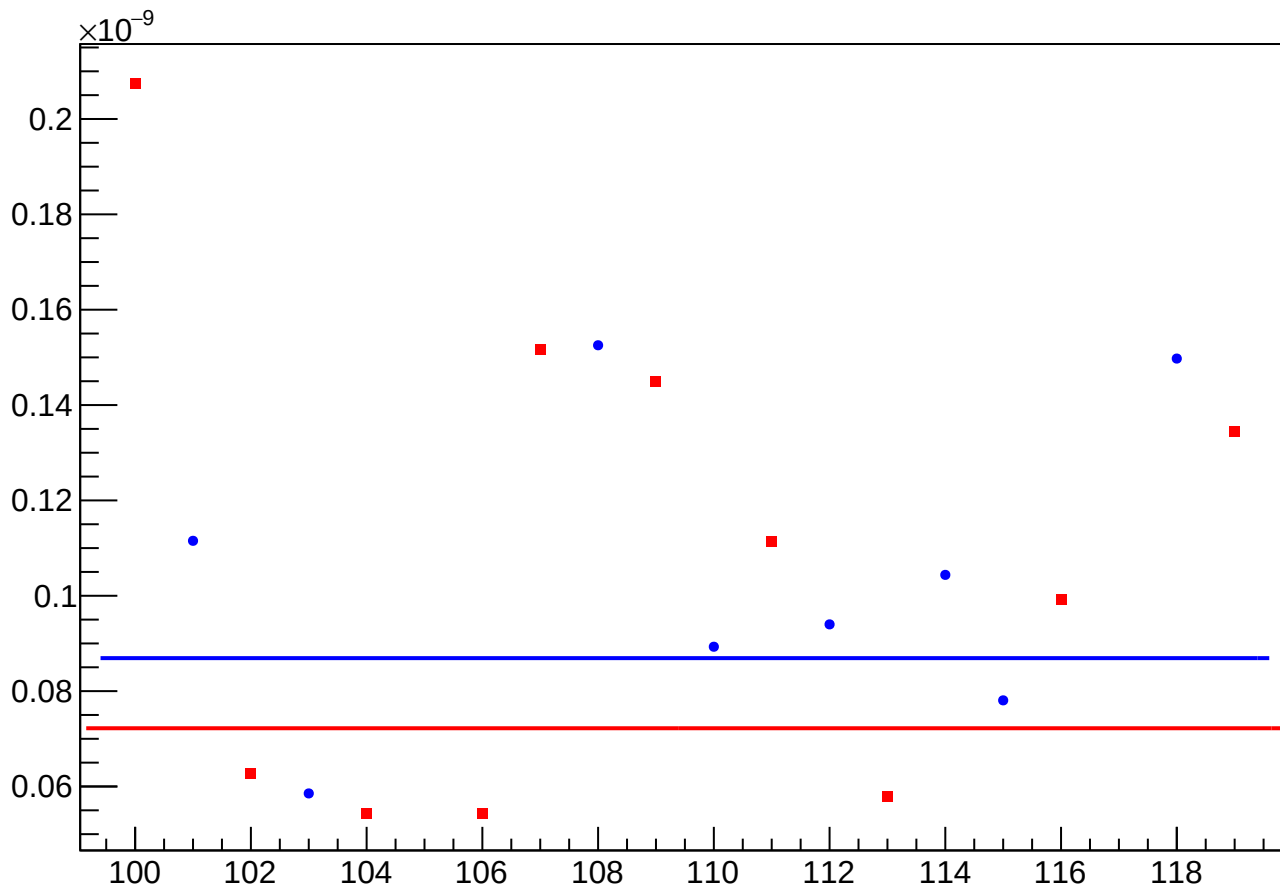
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 23.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 451235.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 757719.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

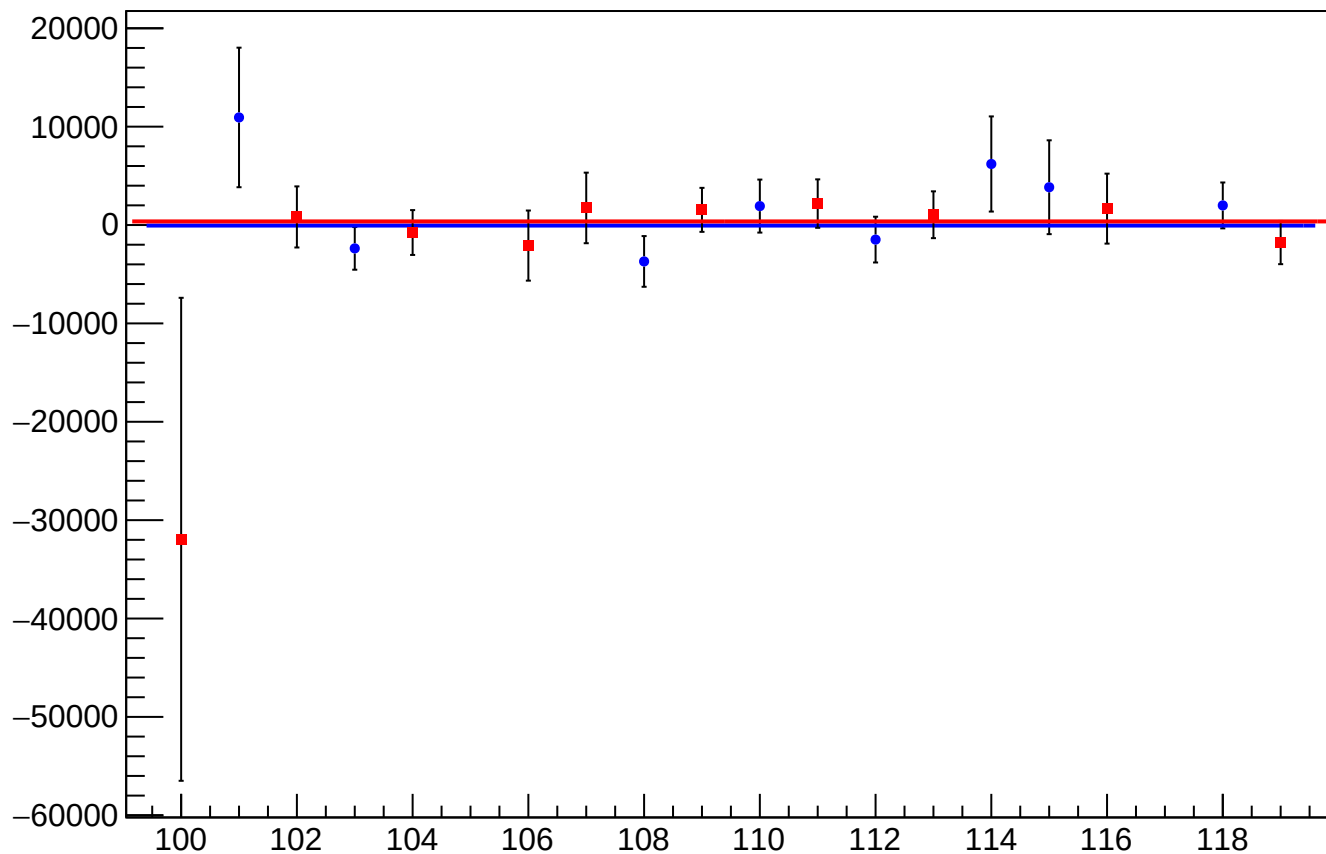
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1276711.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -53.108 $\pm$ 1011.990  $\chi^2$ /NDF: 9.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 367.333 $\pm$ 883.041  $\chi^2$ /NDF: 4.6/9

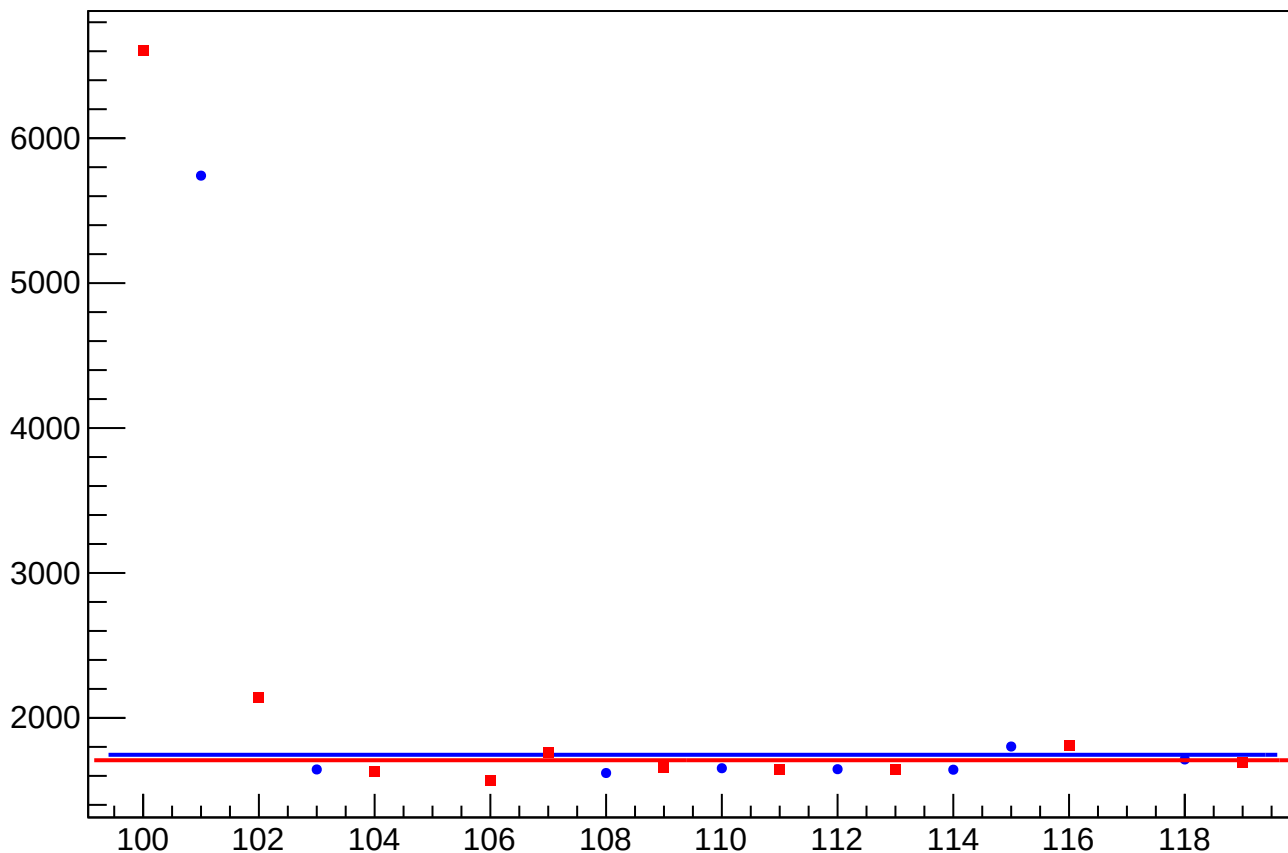
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 185.590 $\pm$ 665.354  $\chi^2$ /NDF: 14.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1745.577+/-0.716  $\chi^2/\text{NDF}$ : 651519.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1707.954+/-0.616  $\chi^2/\text{NDF}$ : 131595.9/9

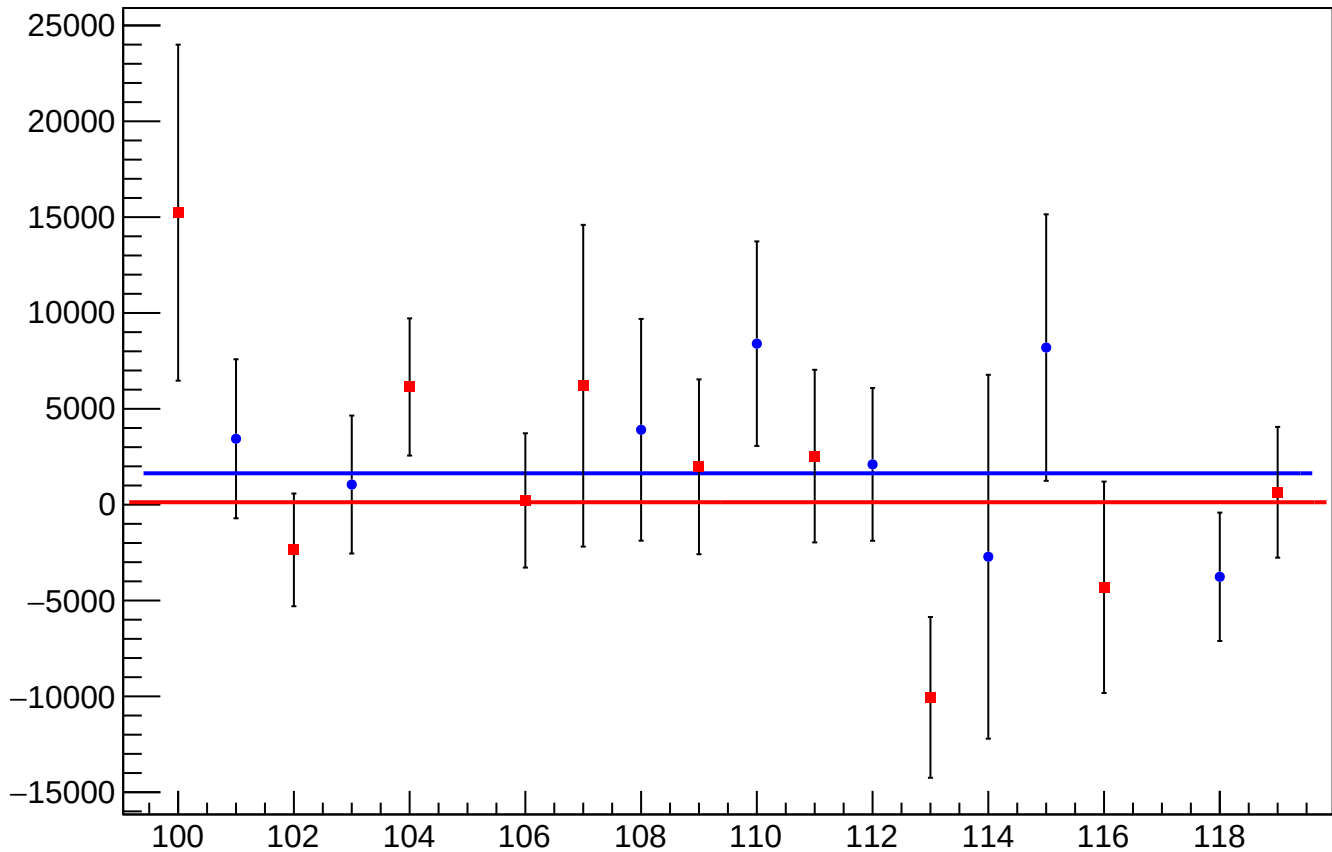
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1723.973+/-0.467  $\chi^2/\text{NDF}$ : 784702.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_reg\_correction\_mean vs Slug



Right In: 1636.190+/-1613.070  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 126.808+/-1318.080  $\chi^2/\text{NDF}$ : 14.1/9

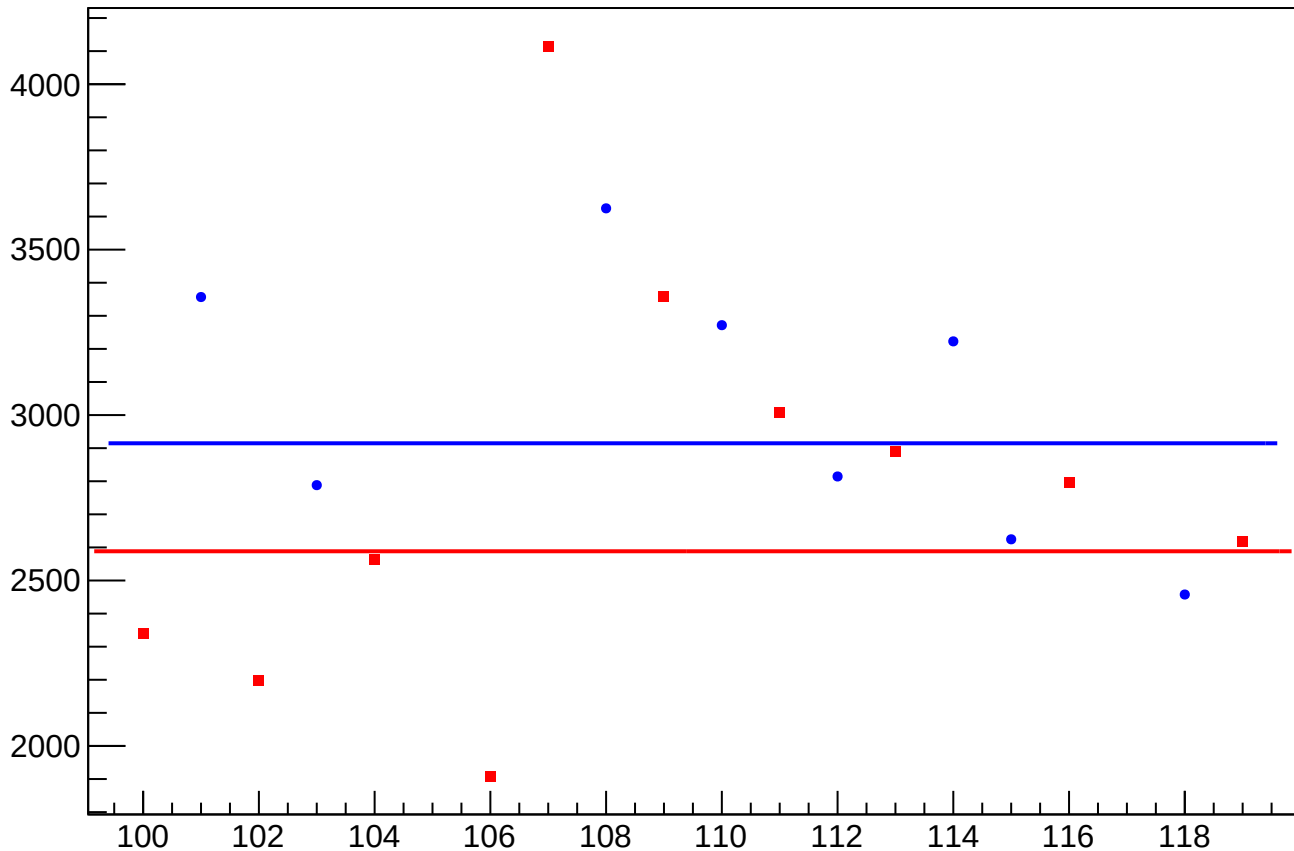
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 731.118+/-1020.666  $\chi^2/\text{NDF}$ : 20.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_reg\_correction\_rms vs Slug



Right In: 2914.731+/-1.141  $\chi^2/\text{NDF}$ : 108390.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2588.364+/-0.932  $\chi^2/\text{NDF}$ : 266746.7/9

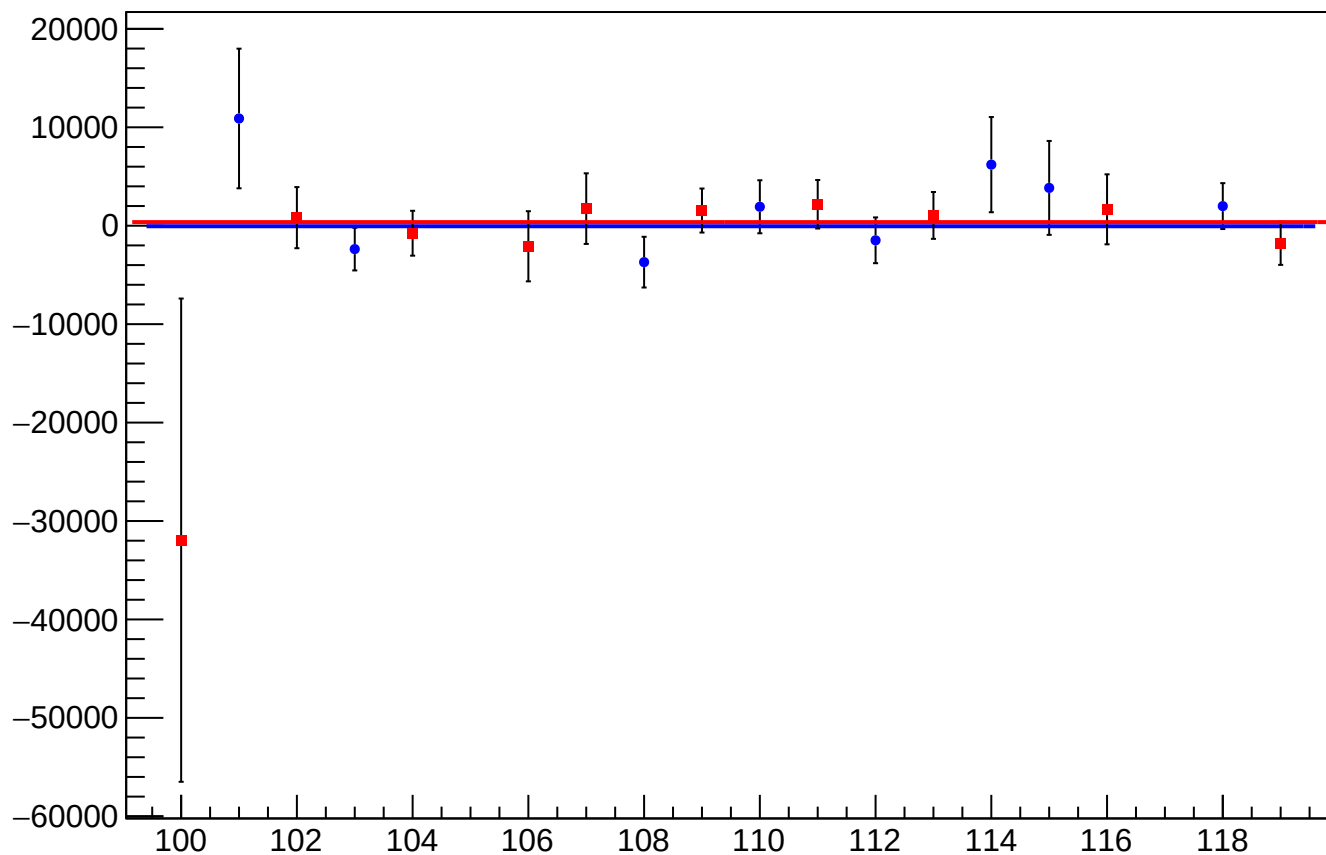
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2719.032+/-0.722  $\chi^2/\text{NDF}$ : 424230.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -53.996 $\pm$ 1011.990  $\chi^2$ /NDF: 9.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 367.238 $\pm$ 883.041  $\chi^2$ /NDF: 4.6/9

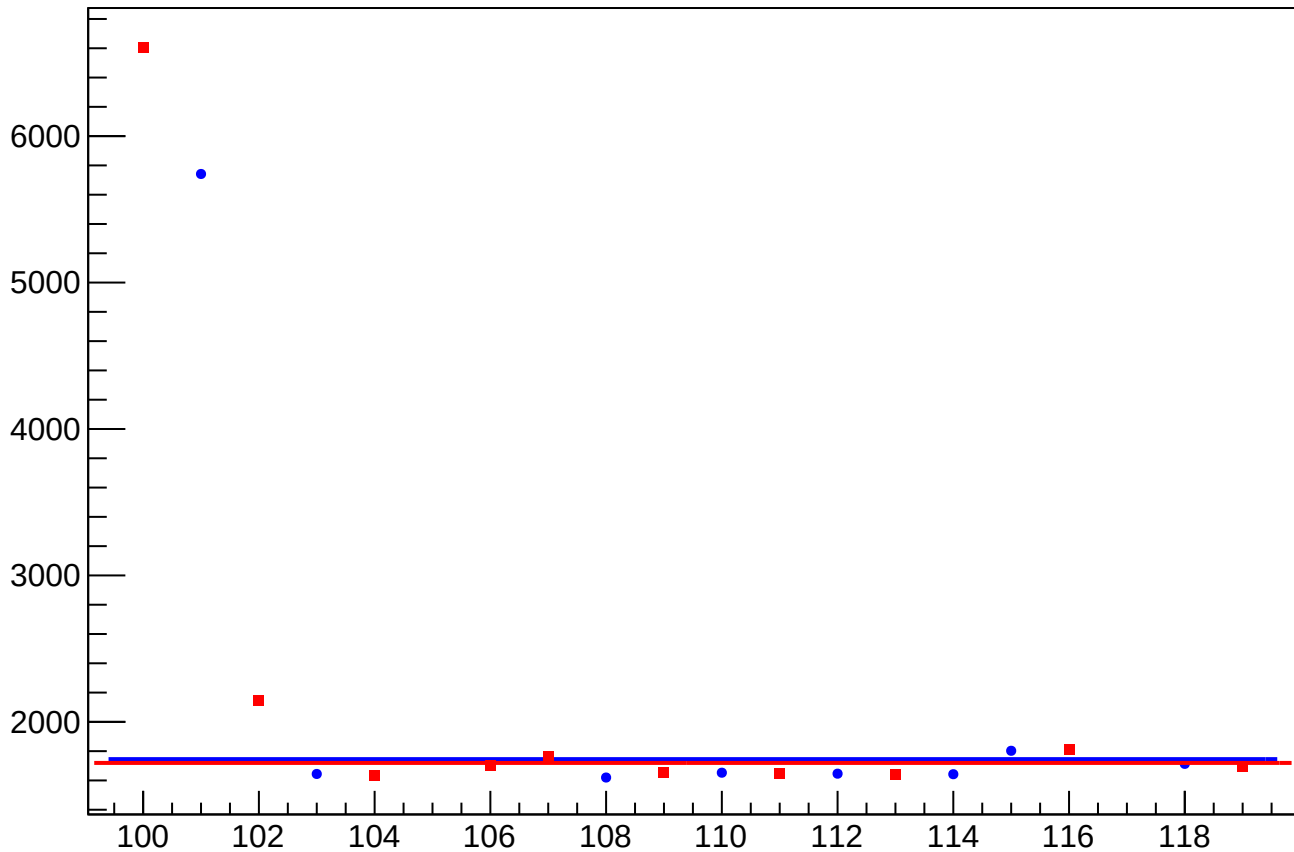
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 185.152 $\pm$ 665.354  $\chi^2$ /NDF: 14.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1745.576 $\pm$ 0.716  $\chi^2$ /NDF: 651519.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1719.639 $\pm$ 0.620  $\chi^2$ /NDF: 126824.1/9

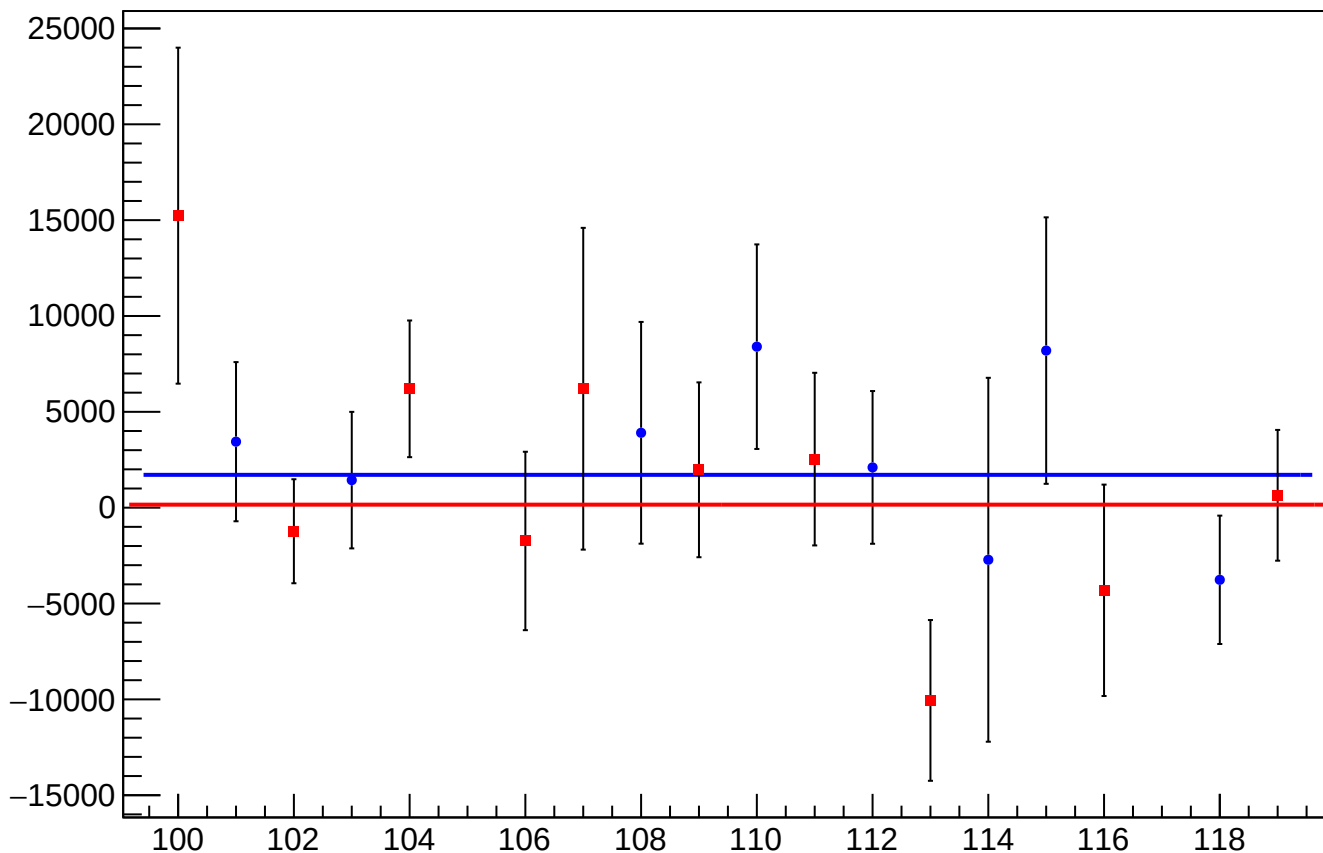
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1730.764 $\pm$ 0.469  $\chi^2$ /NDF: 779093.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_dd\_cor\_correction\_mean vs Slug



Right In: 1713.025+/-1609.814  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 158.415+/-1335.053  $\chi^2/\text{NDF}$ : 13.8/9

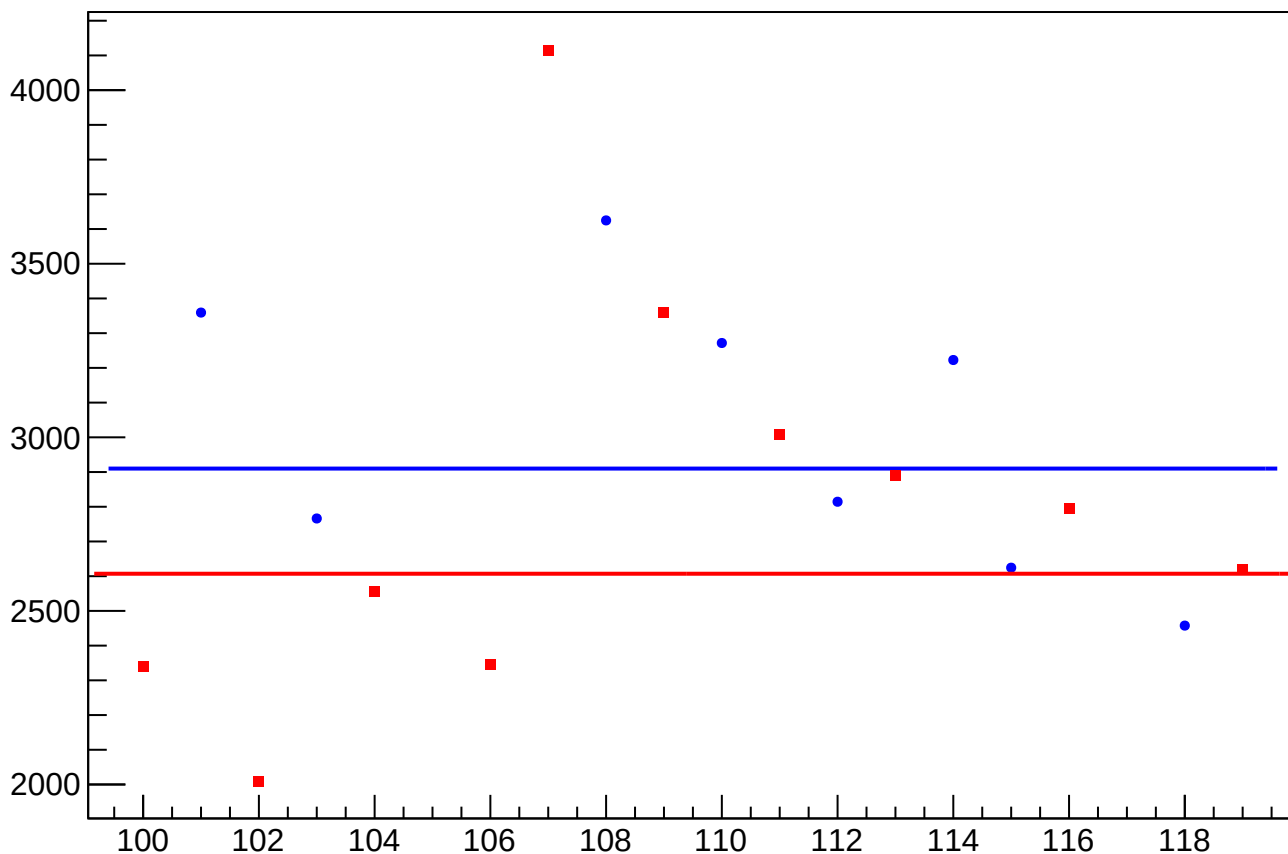
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 791.924+/-1027.641  $\chi^2/\text{NDF}$ : 20.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_cor\_correction\_rms vs Slug



Right In: 2909.982+/-1.138  $\chi^2/\text{NDF}$ : 109616.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2607.058+/-0.944  $\chi^2/\text{NDF}$ : 251600.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

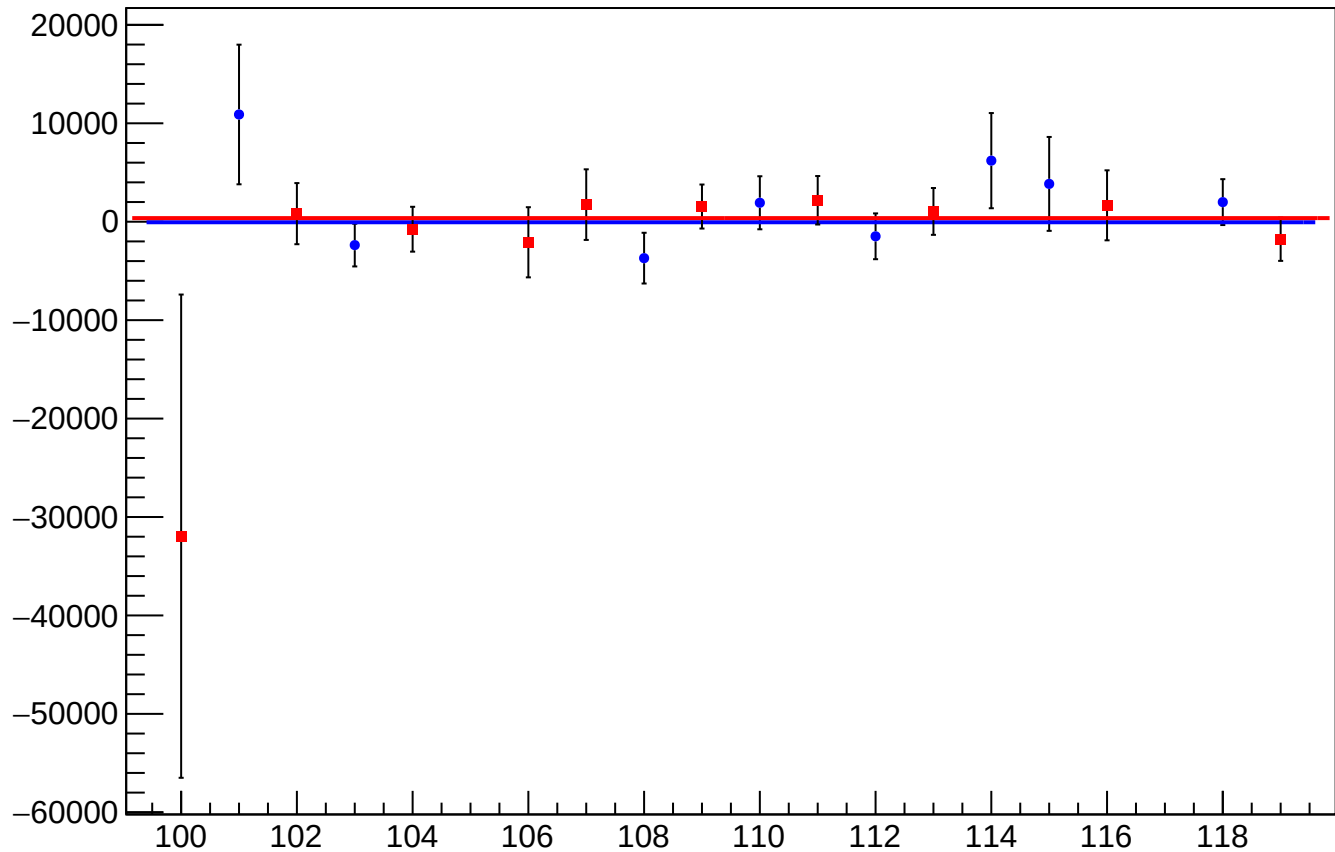
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2730.501+/-0.727  $\chi^2/\text{NDF}$ : 403176.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -53.996 $\pm$ 1011.990  $\chi^2$ /NDF: 9.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 367.238 $\pm$ 883.041  $\chi^2$ /NDF: 4.6/9

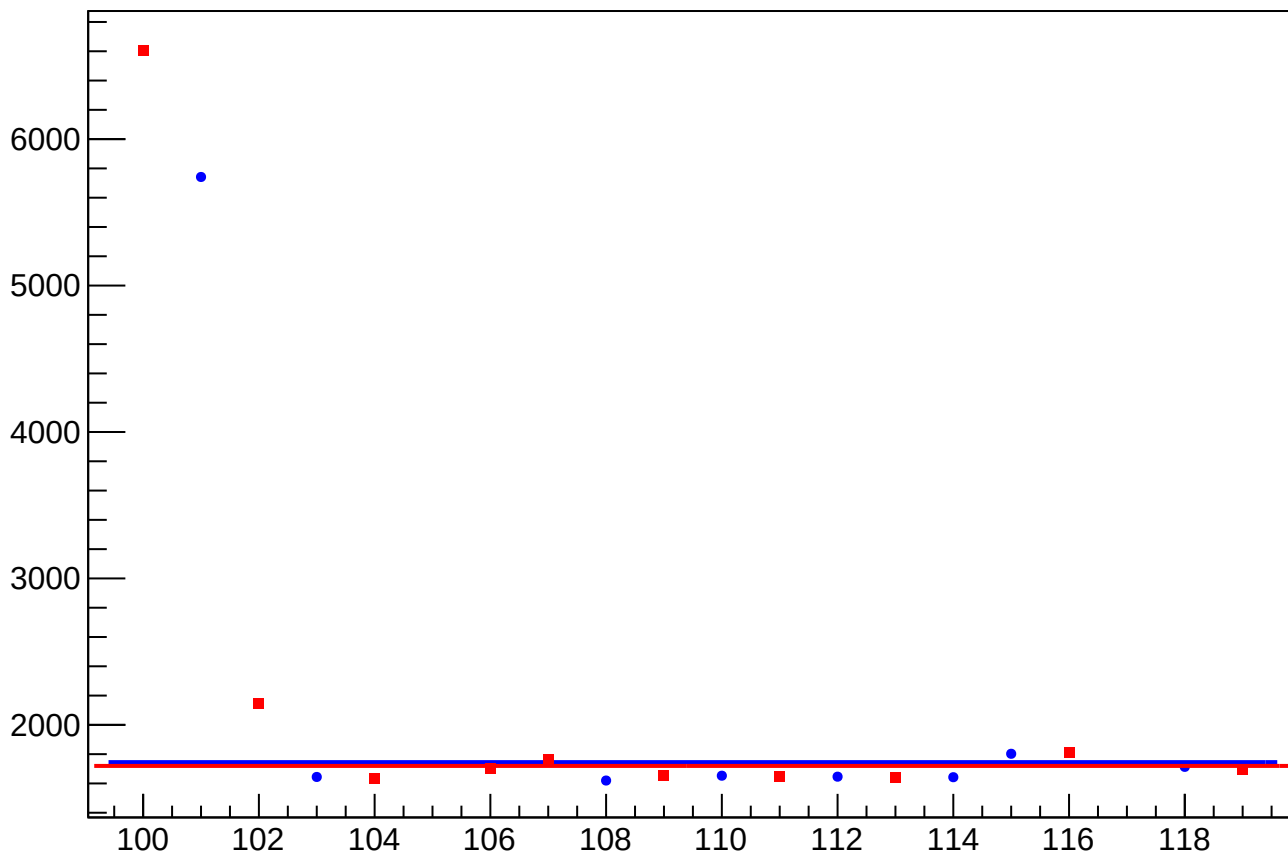
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 185.152 $\pm$ 665.354  $\chi^2$ /NDF: 14.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1745.576+/-0.716  $\chi^2/\text{NDF}$ : 651519.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1719.639+/-0.620  $\chi^2/\text{NDF}$ : 126824.1/9

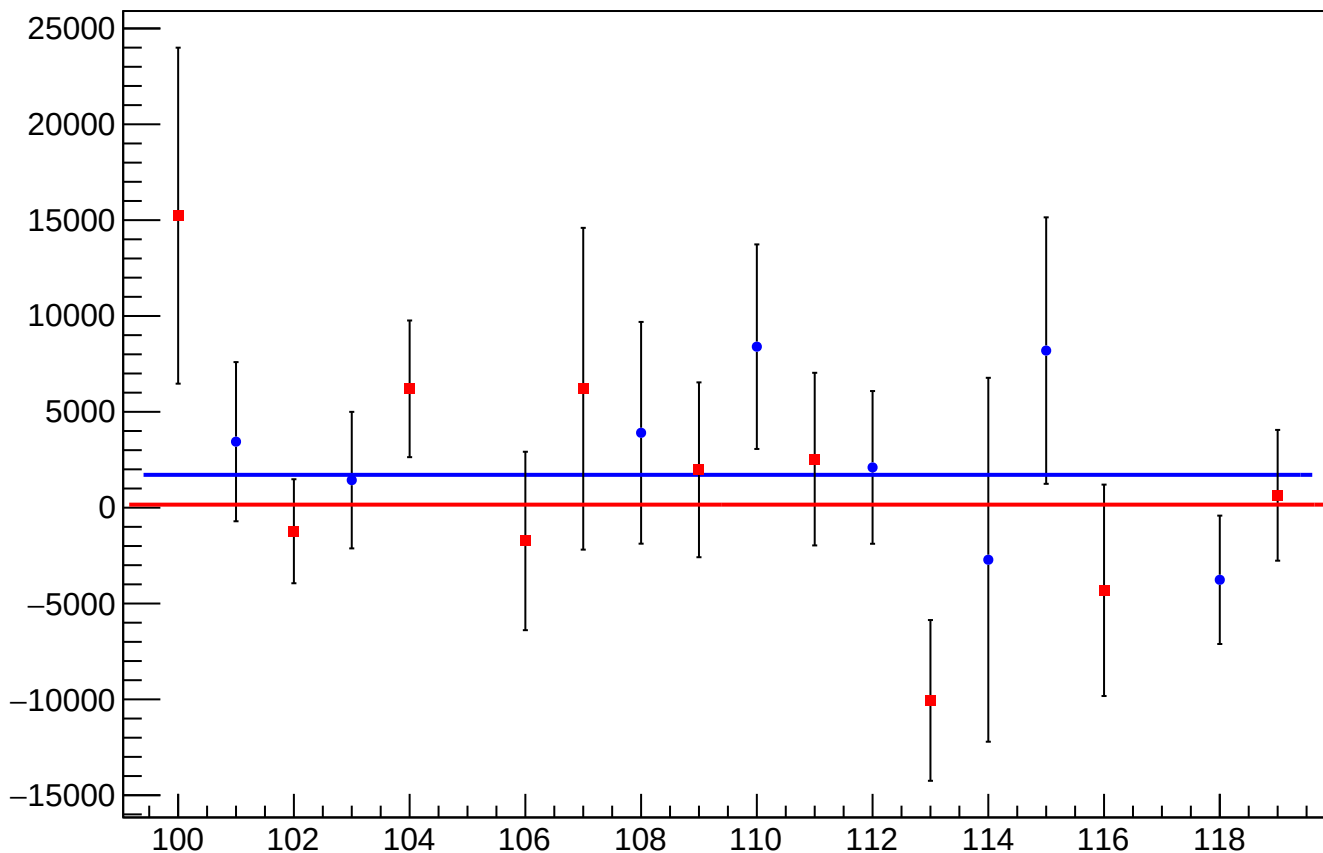
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1730.764+/-0.469  $\chi^2/\text{NDF}$ : 779093.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 1713.025+/-1609.814  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 158.415+/-1335.053  $\chi^2/\text{NDF}$ : 13.8/9

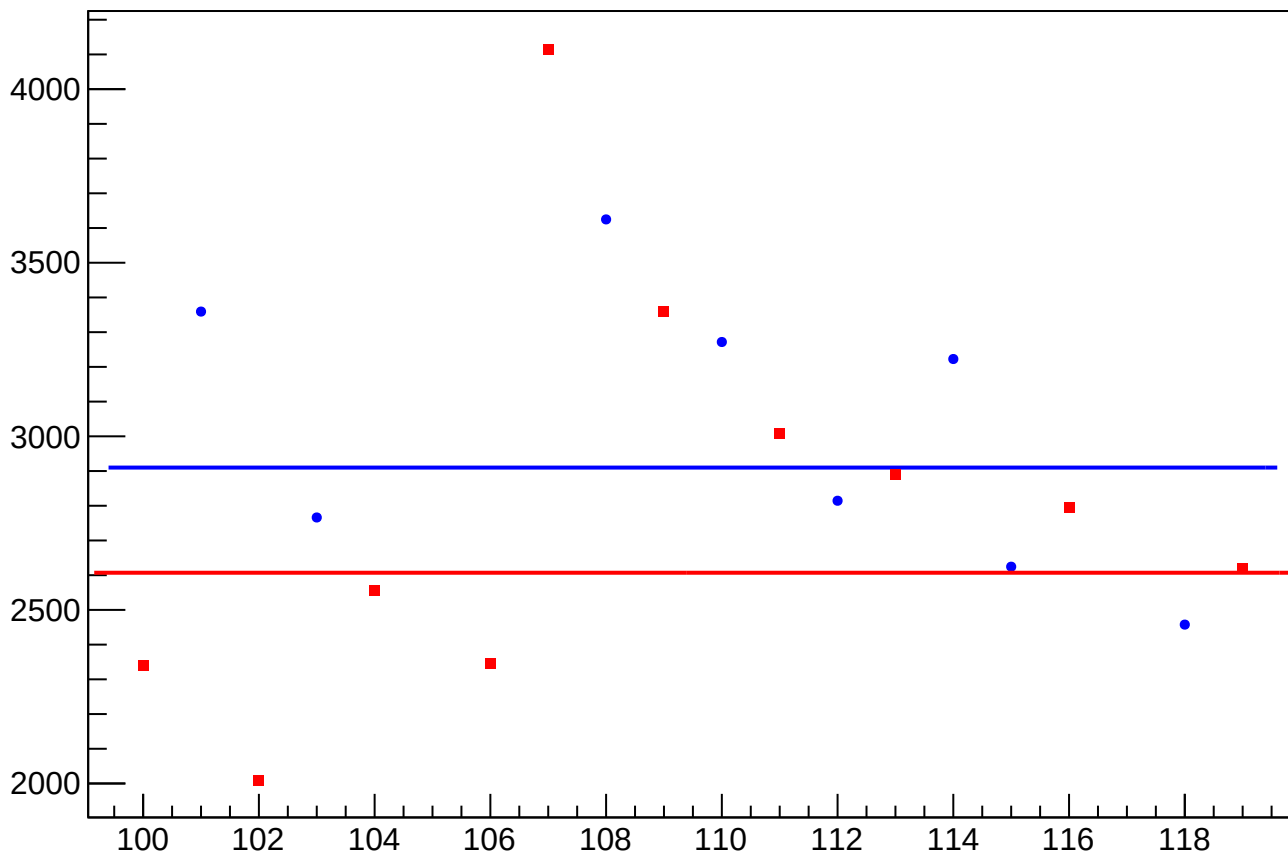
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 791.924+/-1027.641  $\chi^2/\text{NDF}$ : 20.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 2909.982+/-1.138  $\chi^2/\text{NDF}$ : 109616.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2607.058+/-0.944  $\chi^2/\text{NDF}$ : 251600.5/9

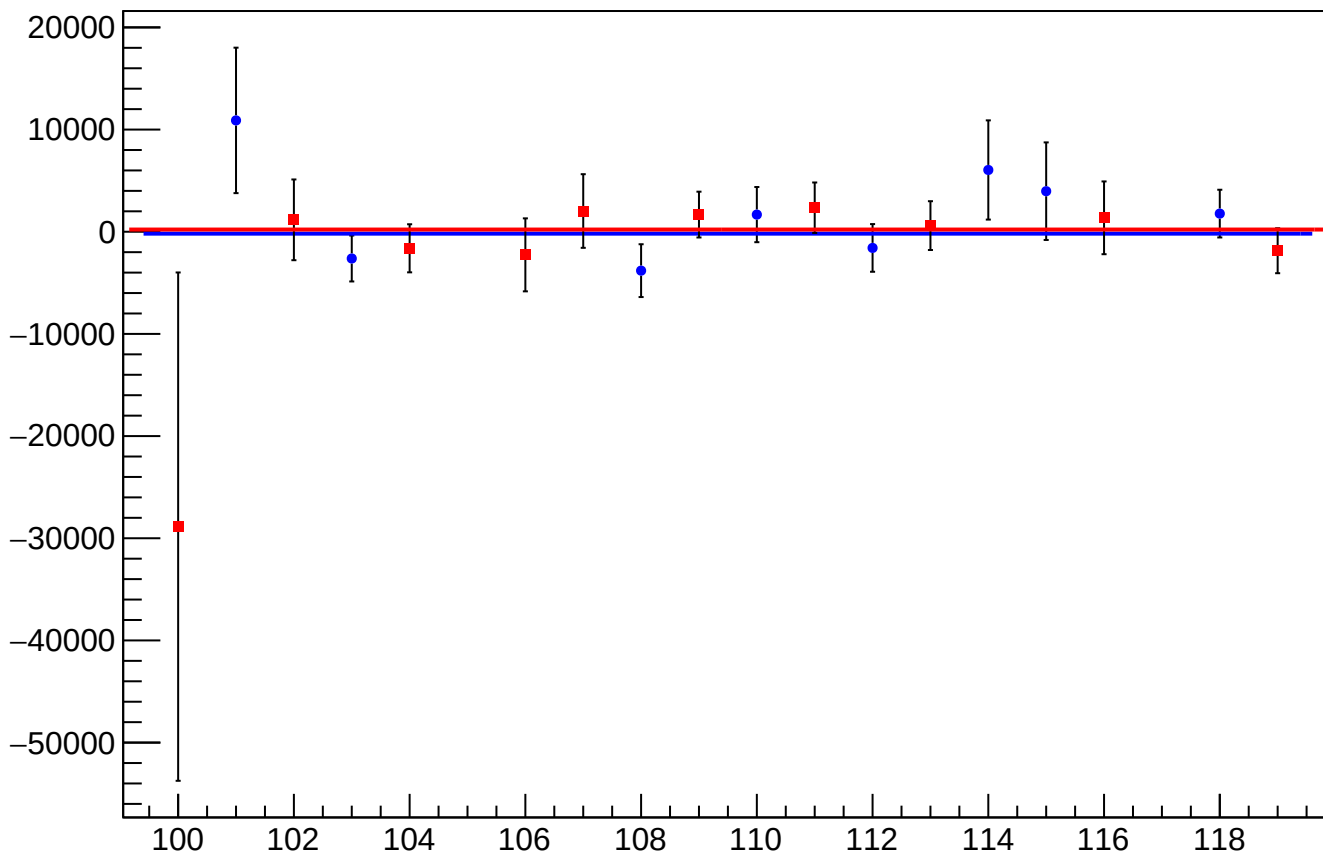
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2730.501+/-0.727  $\chi^2/\text{NDF}$ : 403176.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -186.035+/-1021.744  $\chi^2/\text{NDF}$ : 9.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 215.228+/-903.274  $\chi^2/\text{NDF}$ : 5.0/9

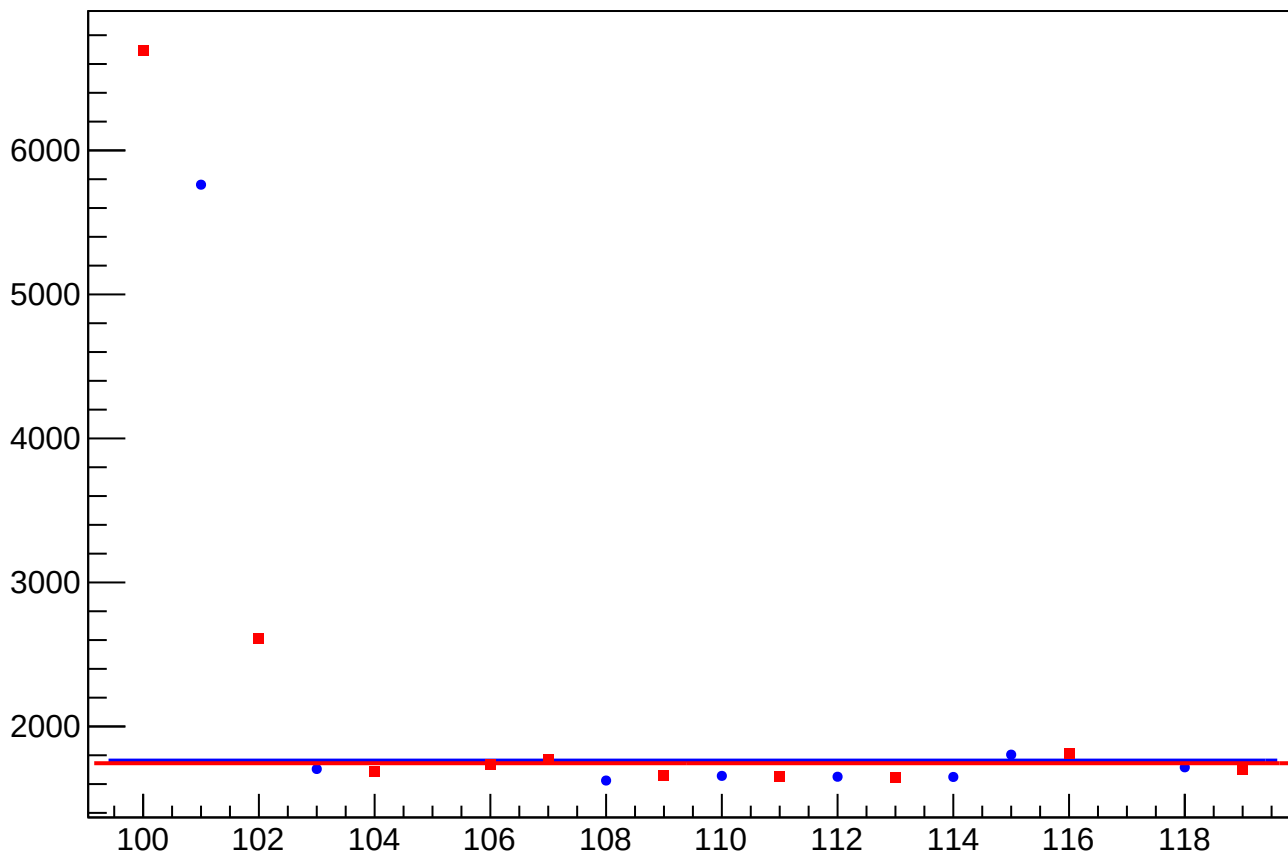
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 39.198+/-676.739  $\chi^2/\text{NDF}$ : 14.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1762.985 $\pm$ 0.722  $\chi^2$ /NDF: 648021.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1744.760 $\pm$ 0.635  $\chi^2$ /NDF: 188028.9/9

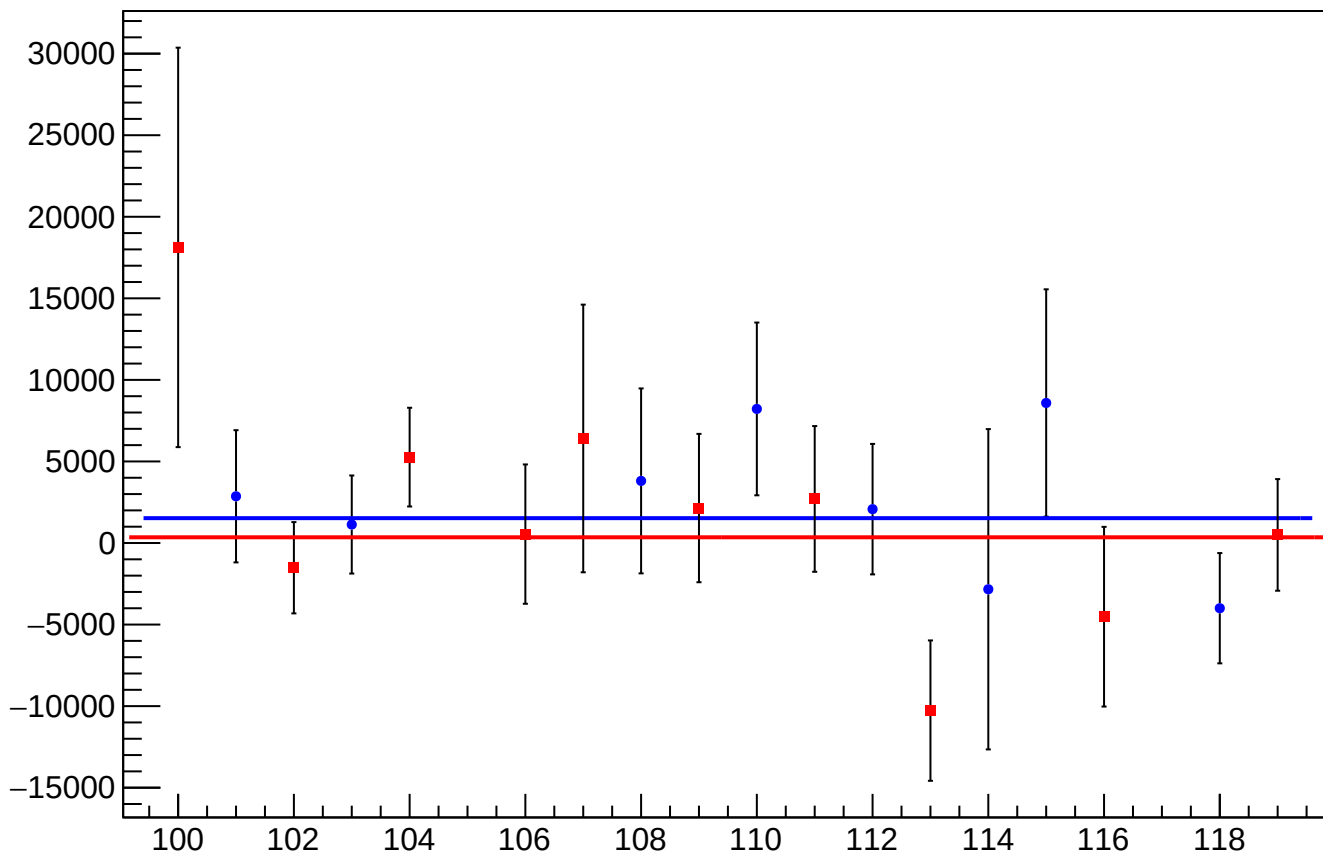
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1752.706 $\pm$ 0.477  $\chi^2$ /NDF: 836409.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_dd\_dit\_correction\_mean vs Slug



Right In: 1523.566+/-1544.340  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 350.458+/-1308.373  $\chi^2/\text{NDF}$ : 13.1/9

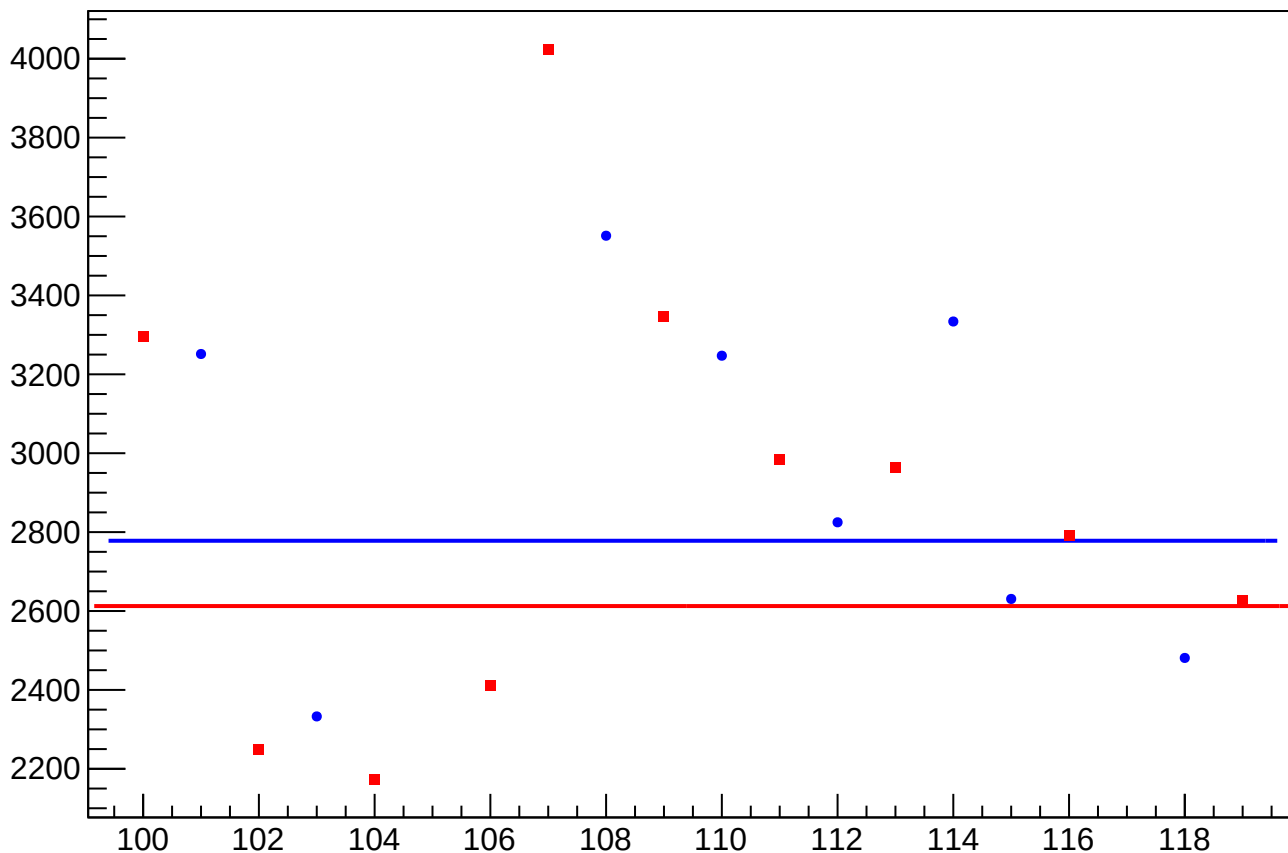
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 840.635+/-998.276  $\chi^2/\text{NDF}$ : 19.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_dit\_correction\_rms vs Slug



Right In: 2778.094+/-1.092  $\chi^2/\text{NDF}$ : 147090.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2612.565+/-0.925  $\chi^2/\text{NDF}$ : 227562.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

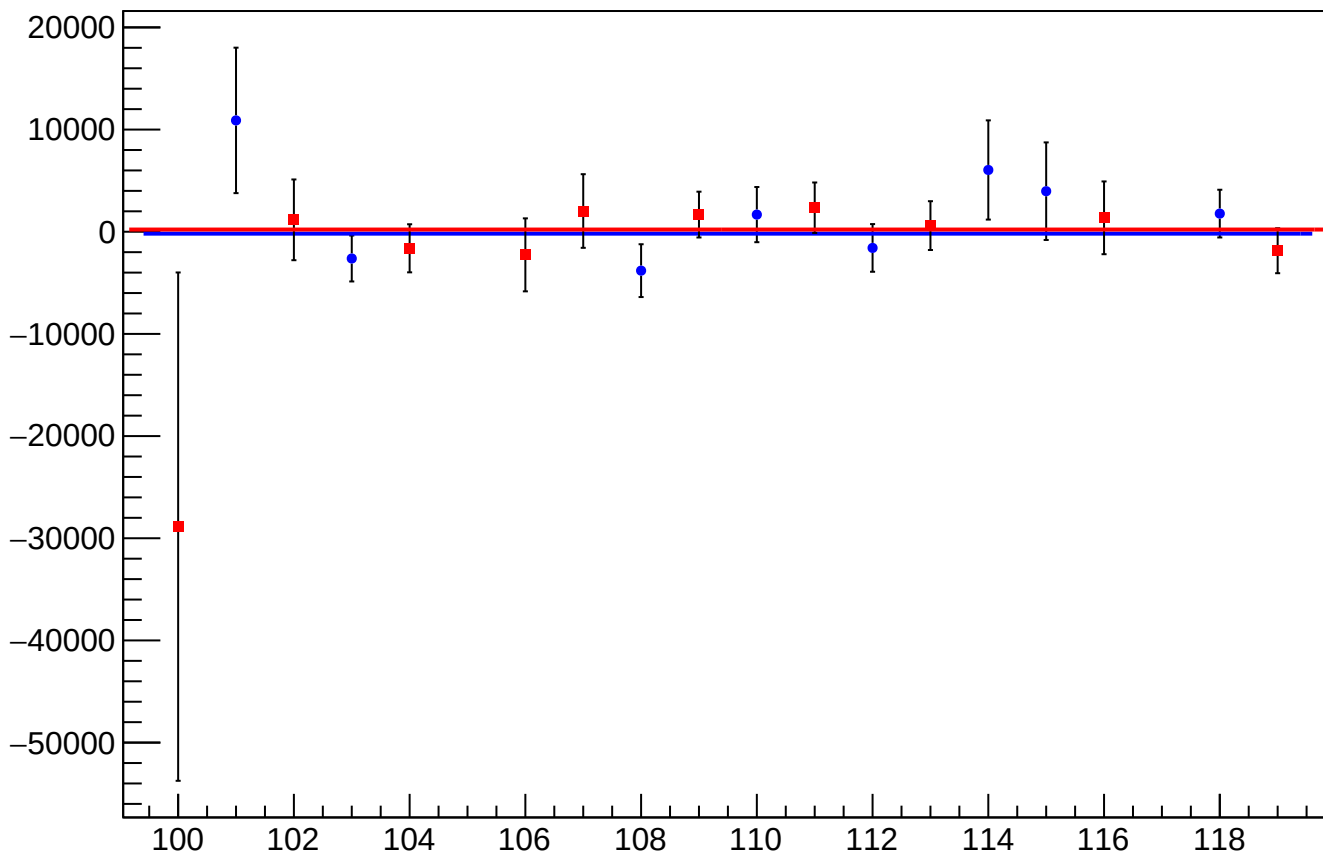
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2681.731+/-0.706  $\chi^2/\text{NDF}$ : 388027.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -186.042 $\pm$ 1021.744  $\chi^2$ /NDF: 9.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 215.237 $\pm$ 903.274  $\chi^2$ /NDF: 5.0/9

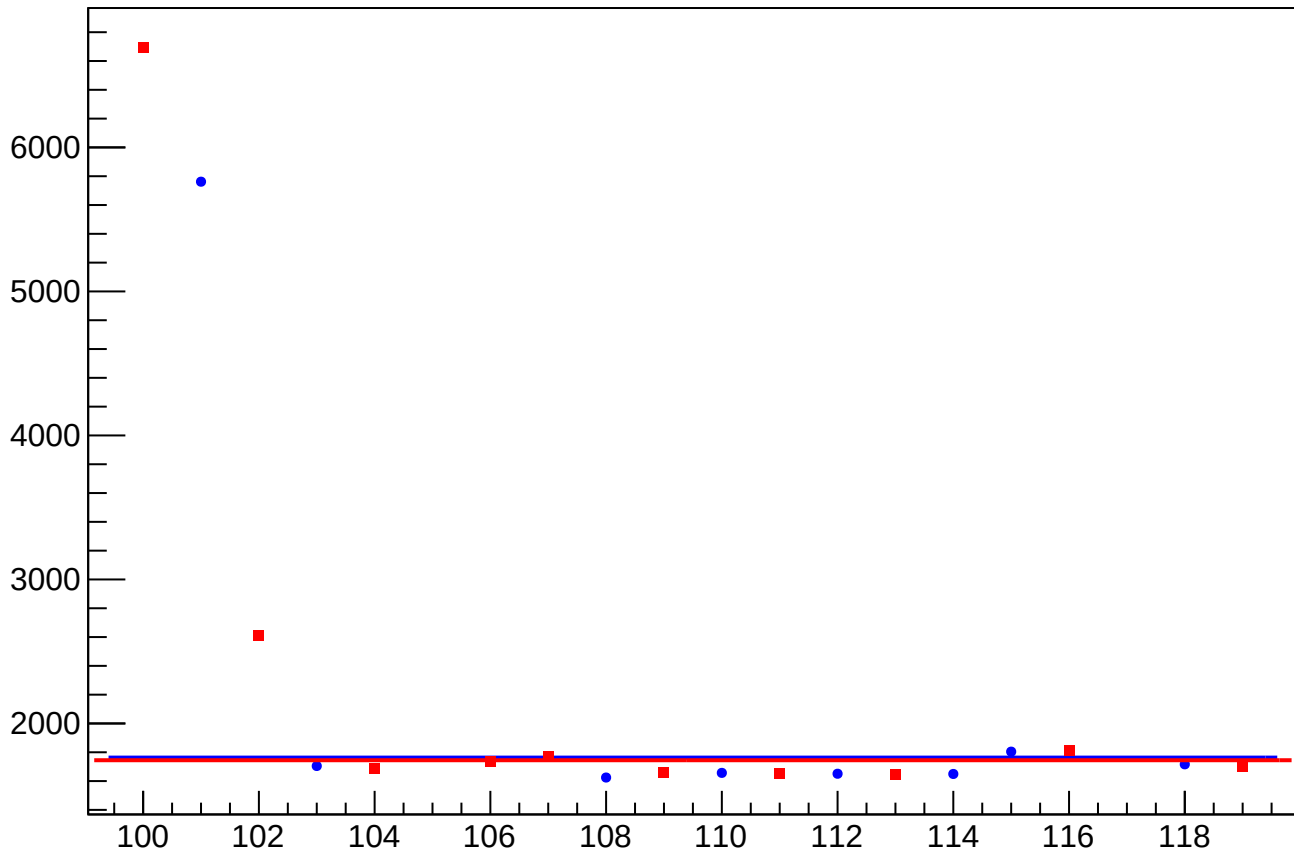
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 39.200 $\pm$ 676.739  $\chi^2$ /NDF: 14.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1762.985+/-0.722  $\chi^2/\text{NDF}$ : 648021.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1744.760+/-0.635  $\chi^2/\text{NDF}$ : 188028.9/9

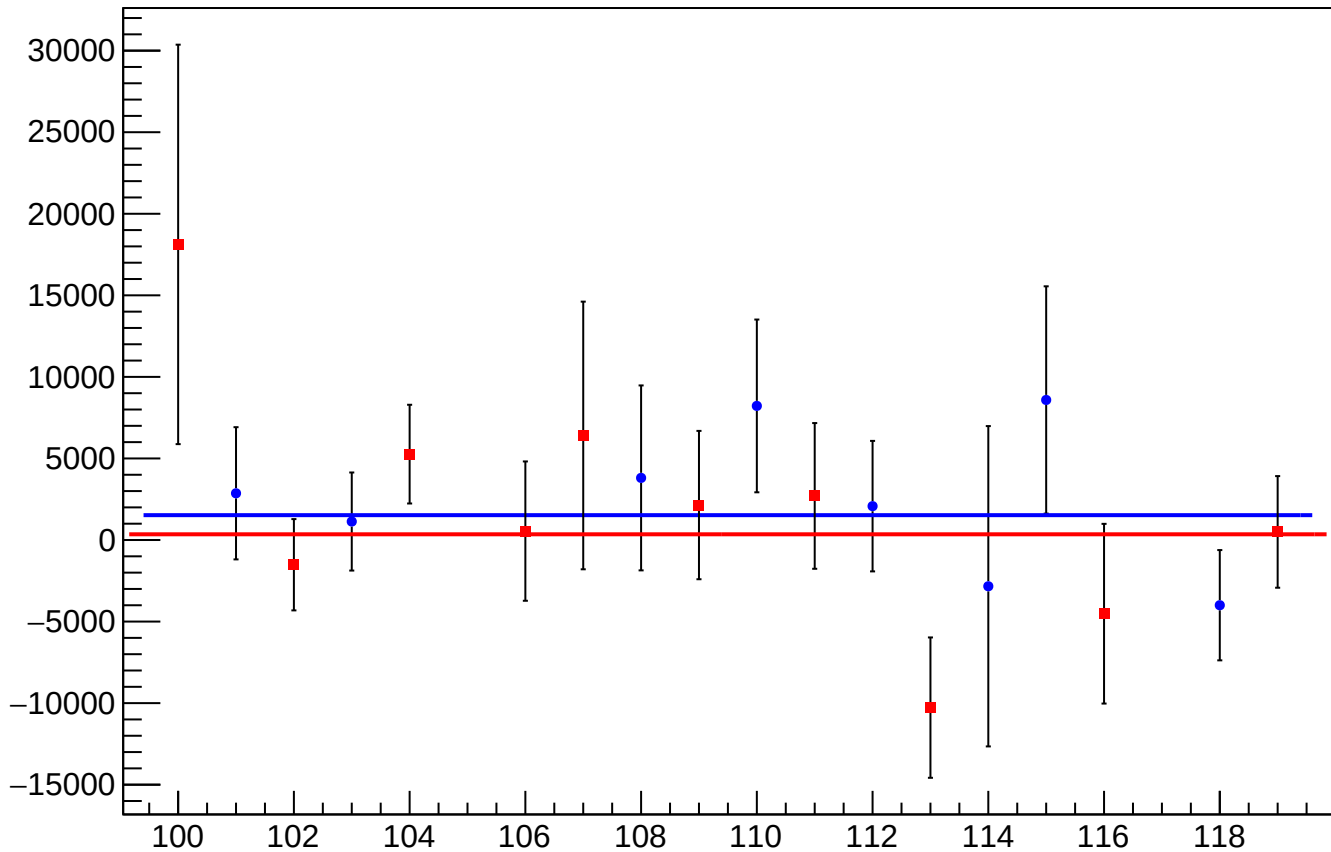
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1752.706+/-0.477  $\chi^2/\text{NDF}$ : 836409.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 1523.558+/-1544.336  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 350.458+/-1308.370  $\chi^2/\text{NDF}$ : 13.1/9

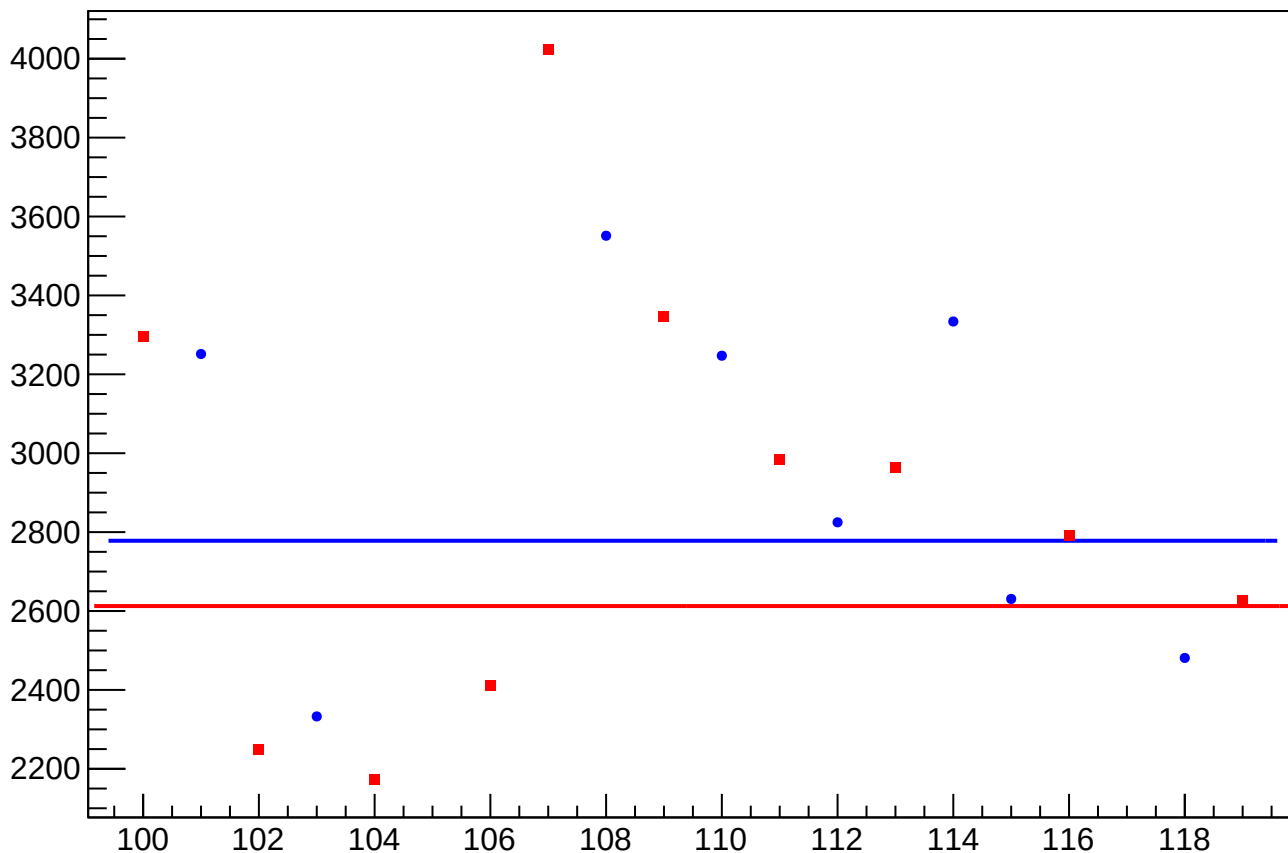
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 840.632+/-998.274  $\chi^2/\text{NDF}$ : 19.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 2778.087+/-1.092  $\chi^2/\text{NDF}$ : 147089.3/7

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

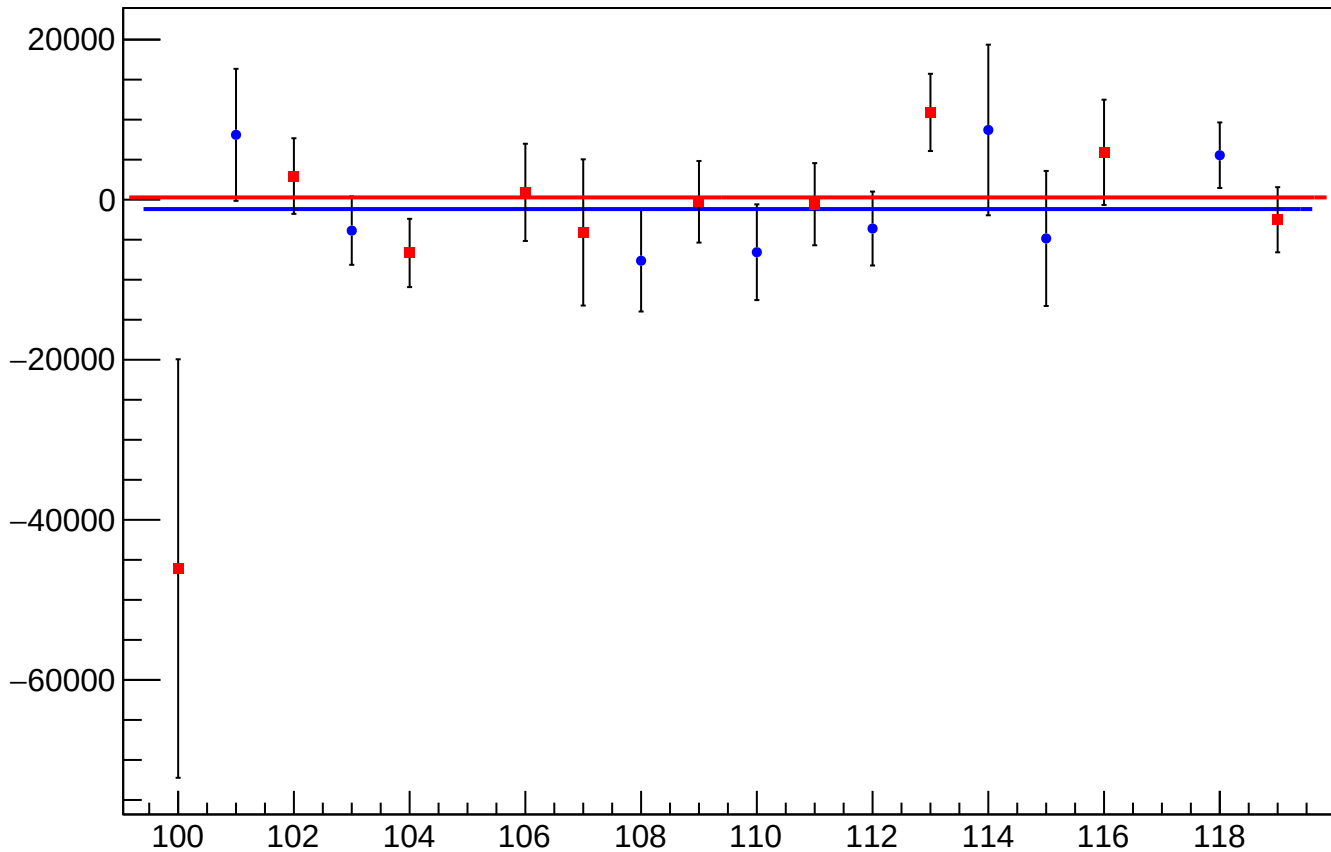
Right Out: 2612.561+/-0.925  $\chi^2/\text{NDF}$ : 227558.2/9

All: 2681.725+/-0.706  $\chi^2/\text{NDF}$ : 388023.1/17

- 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\_atr1l2\_dd\_mean vs Slug



Right In: -1172.150+/-1993.160  $\chi^2$ /NDF: 7.5/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 283.058+/-1706.958  $\chi^2$ /NDF: 12.4/9

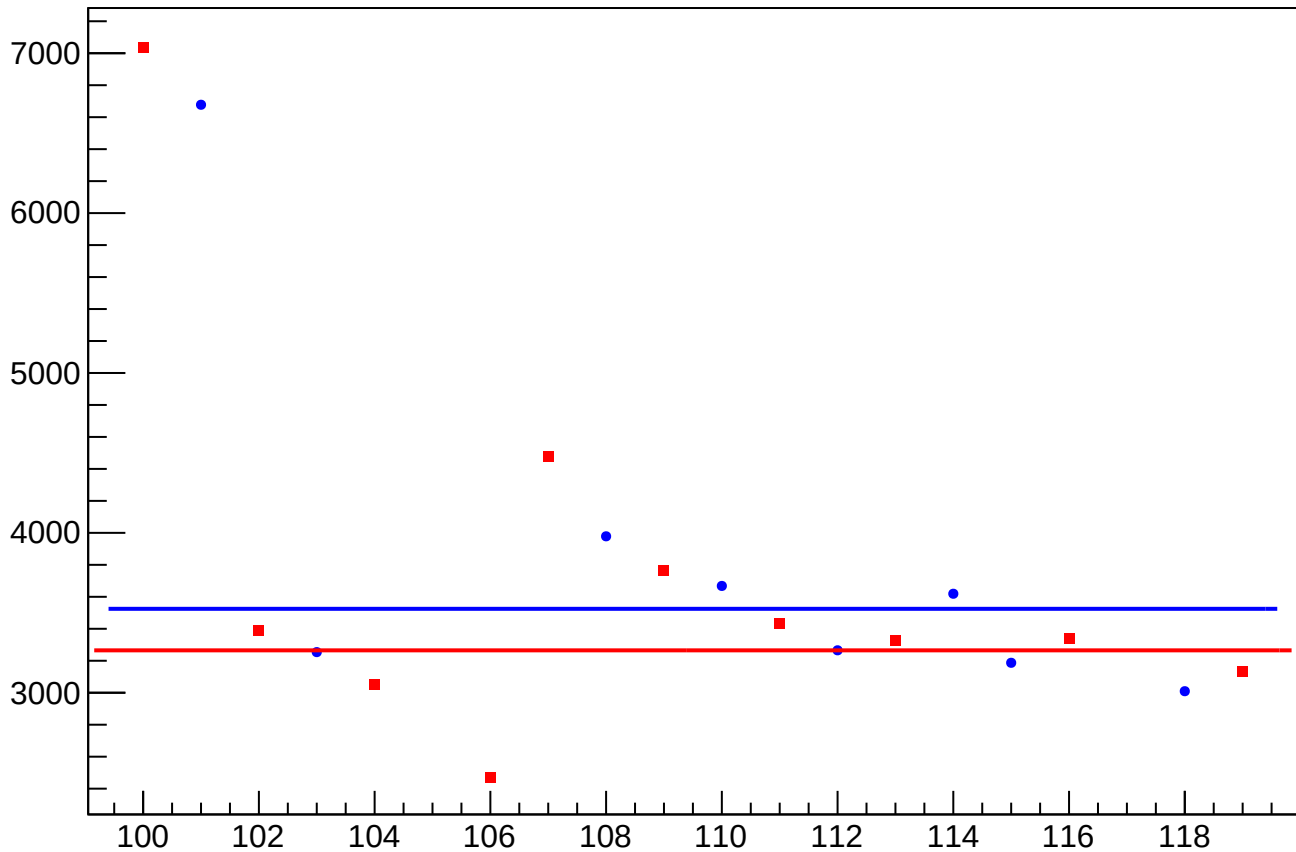
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -332.656+/-1296.490  $\chi^2$ /NDF: 20.3/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_dd\_rms vs Slug



Right In: 3524.863 $\pm$ 1.409  $\chi^2$ /NDF: 353197.5/7

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

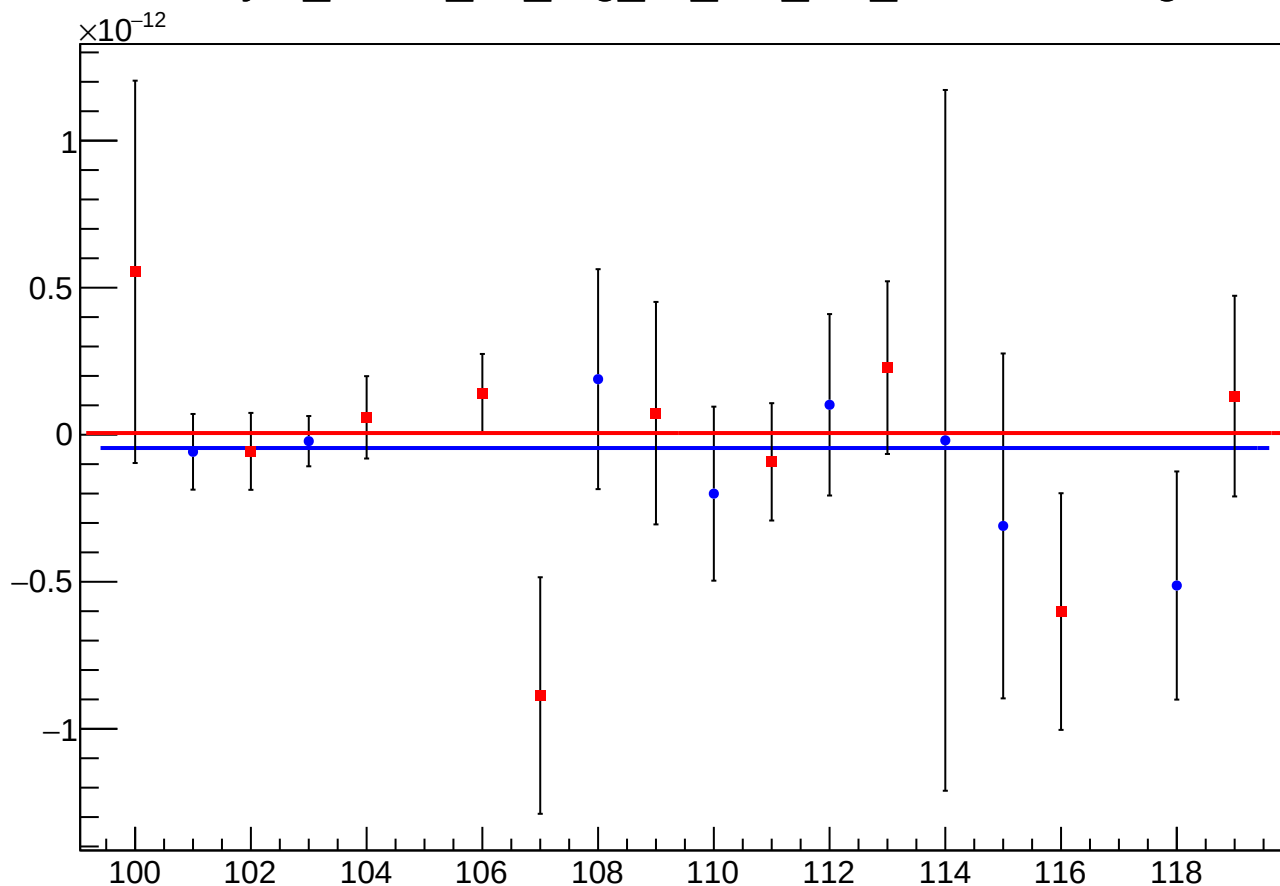
Right Out: 3265.102 $\pm$ 1.177  $\chi^2$ /NDF: 163437.2/9

All: 3371.870 $\pm$ 0.904  $\chi^2$ /NDF: 536642.3/17

- 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\_atr1l2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.2/9

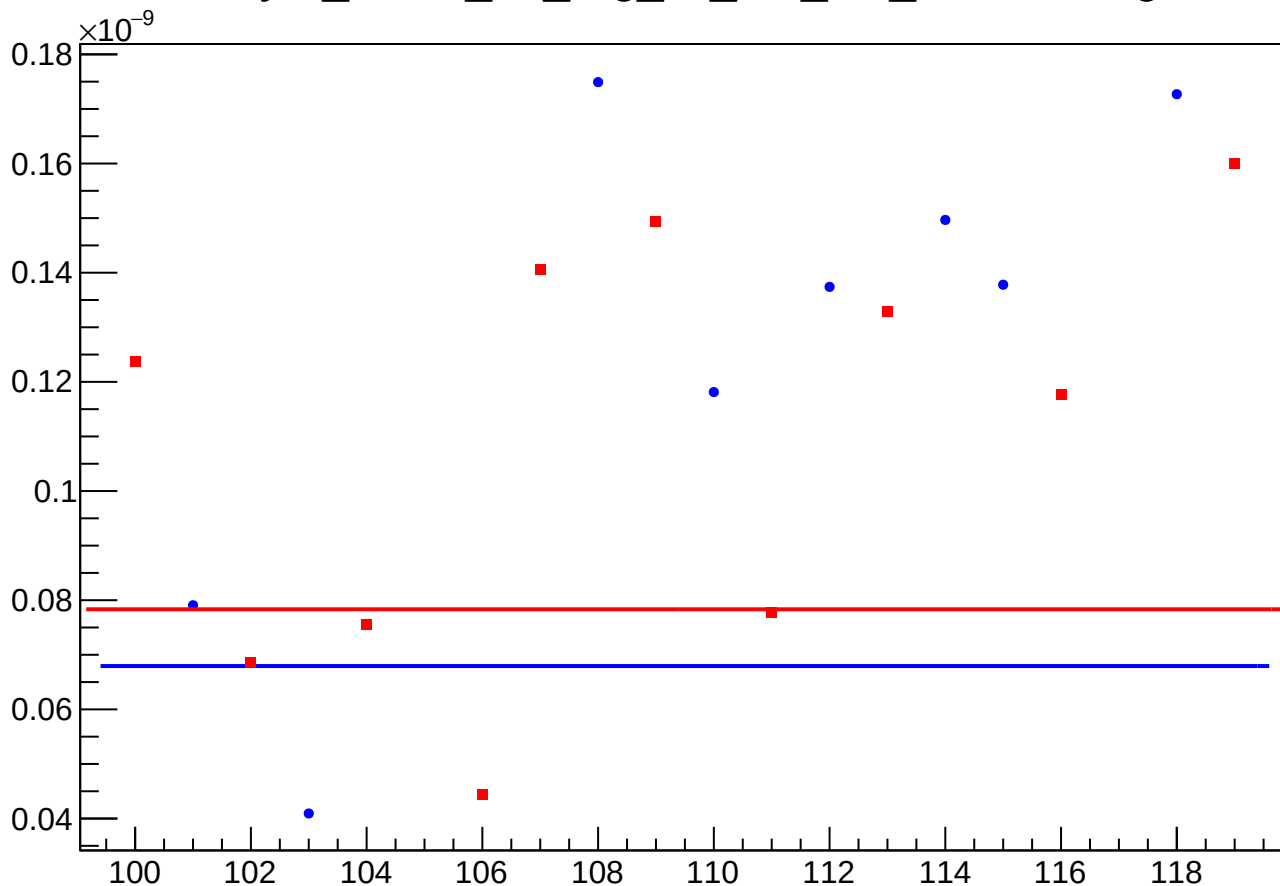
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 721121.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 467571.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

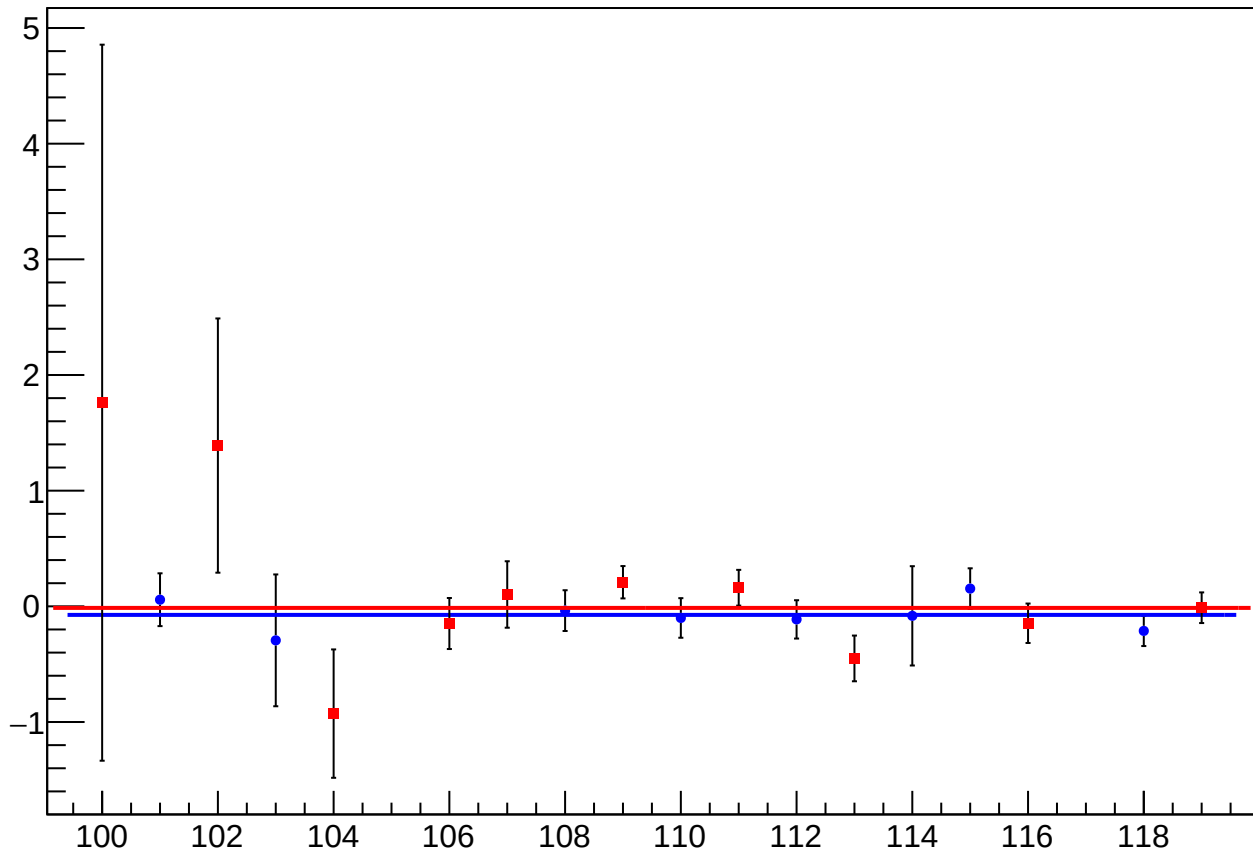
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1213959.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atr1l2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.074 \pm 0.067$   $\chi^2/\text{NDF}$ : 3.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.014 \pm 0.064$   $\chi^2/\text{NDF}$ : 14.5/9

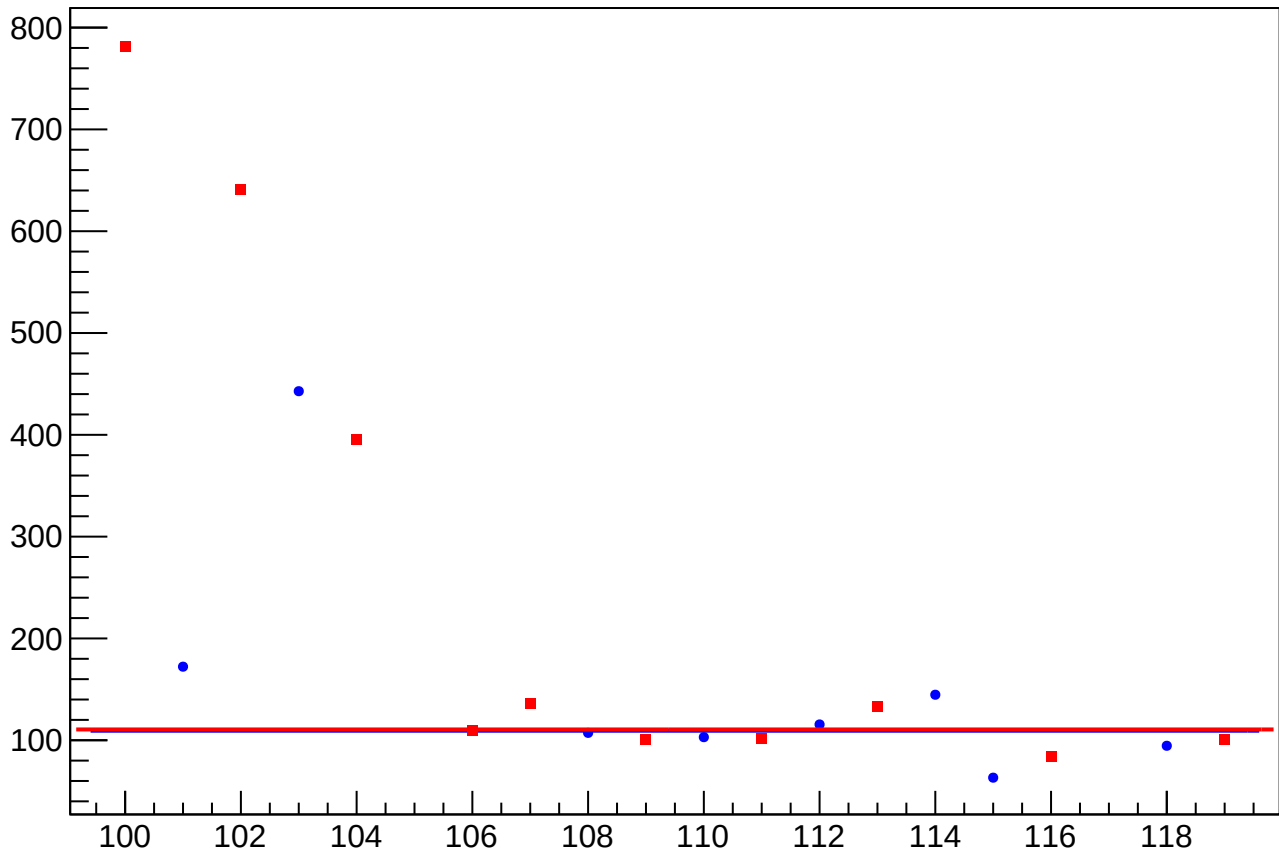
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.042 \pm 0.046$   $\chi^2/\text{NDF}$ : 18.3/17

- 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: 109.381+/-0.048  $\chi^2/\text{NDF}$ : 1020235.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.605+/-0.045  $\chi^2/\text{NDF}$ : 1202032.7/9

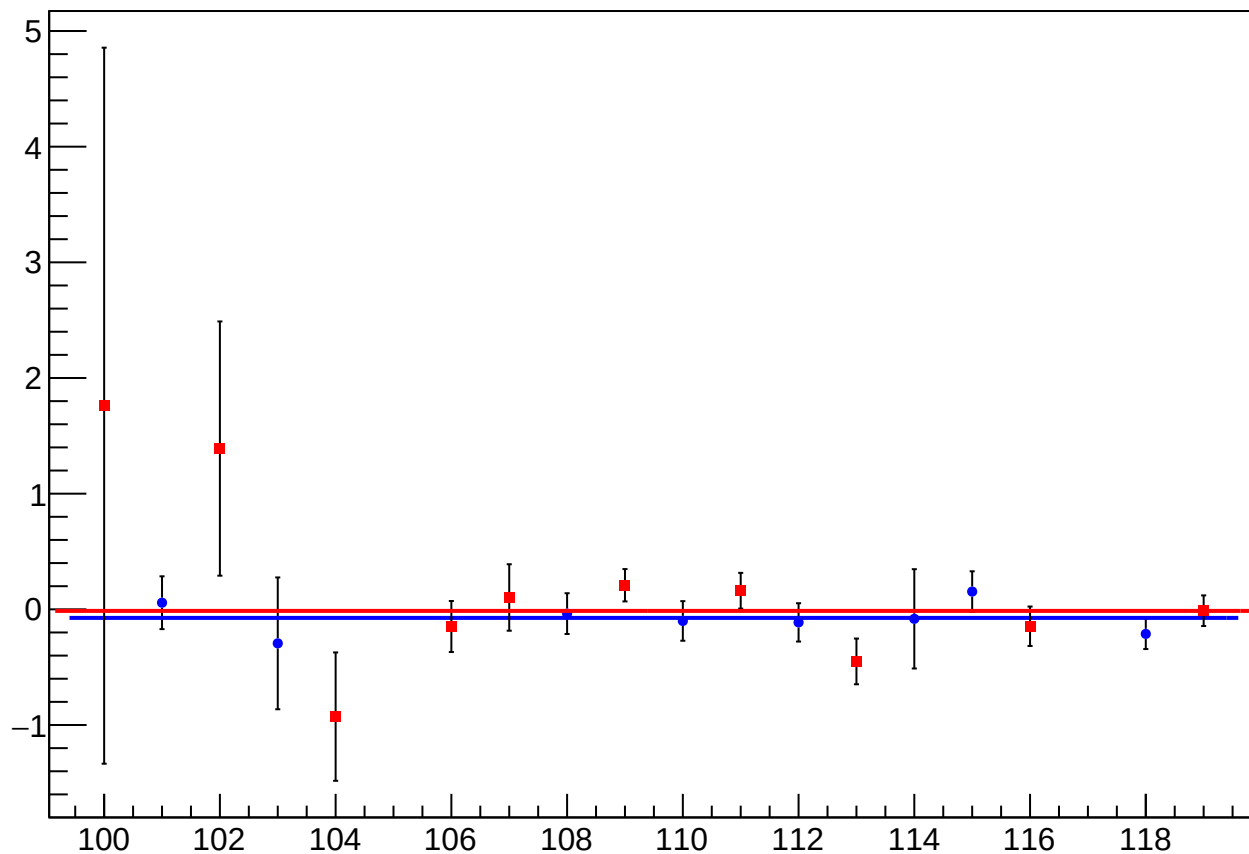
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 110.027+/-0.033  $\chi^2/\text{NDF}$ : 2222617.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.074 \pm 0.067$   $\chi^2/\text{NDF}$ : 3.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.014 \pm 0.064$   $\chi^2/\text{NDF}$ : 14.5/9

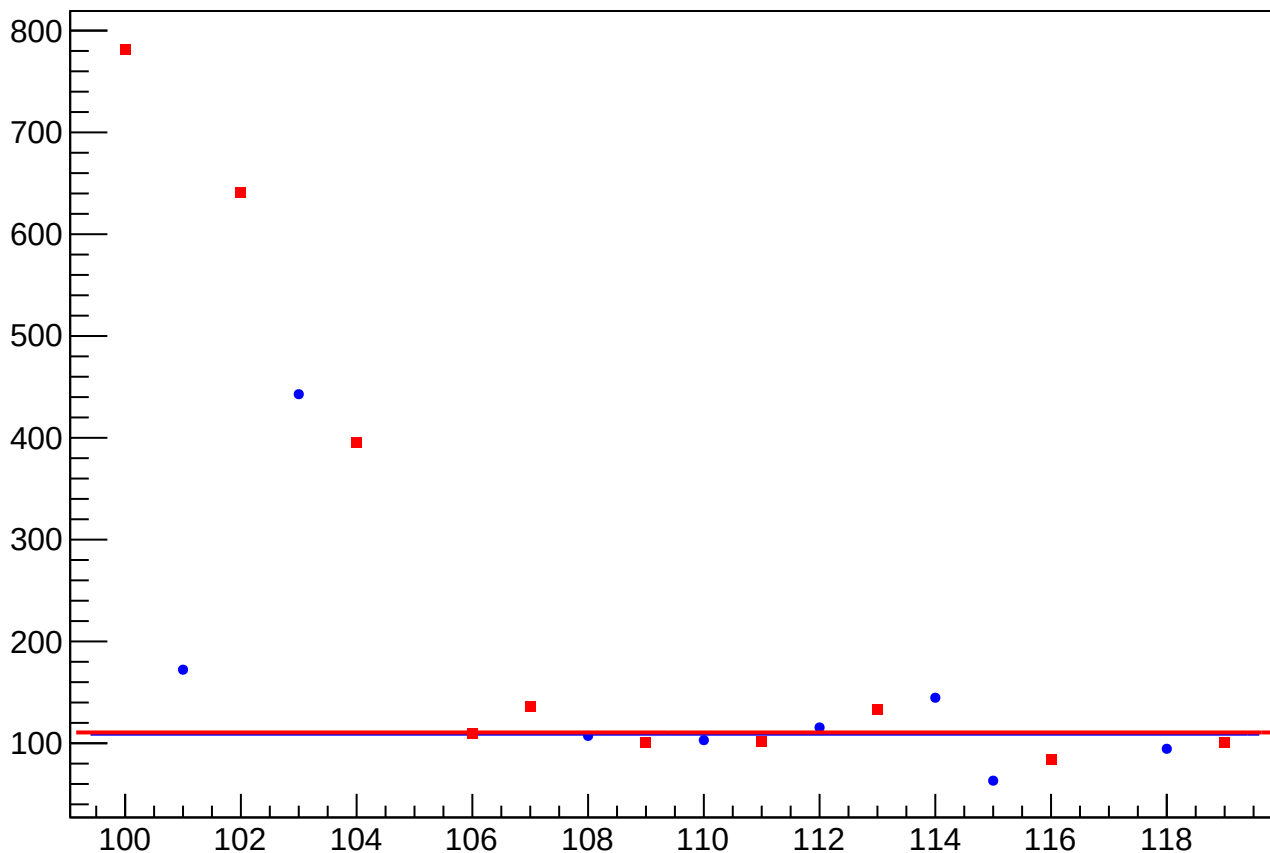
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.042 \pm 0.046$   $\chi^2/\text{NDF}$ : 18.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 109.381+/-0.048  $\chi^2/\text{NDF}$ : 1020235.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.605+/-0.045  $\chi^2/\text{NDF}$ : 1202032.7/9

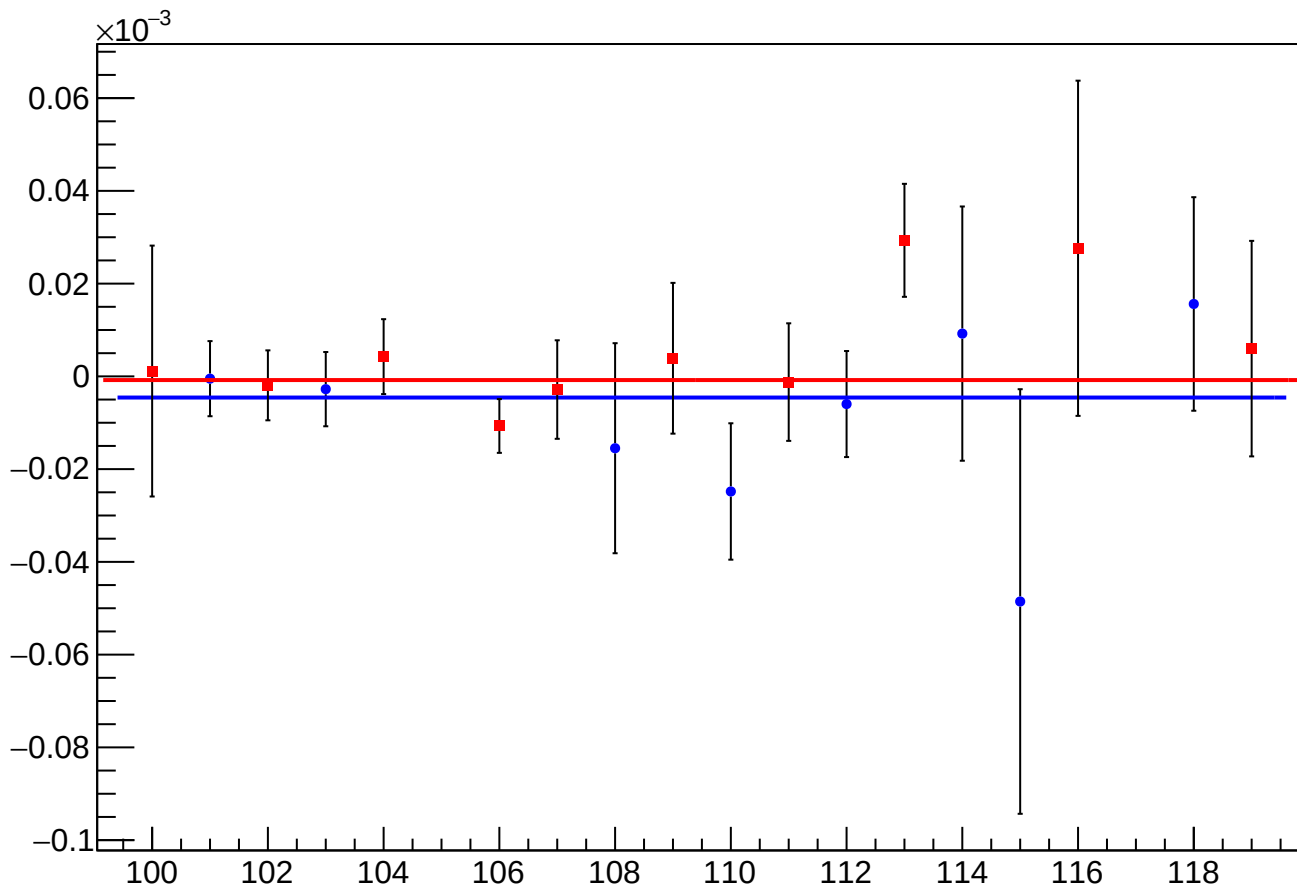
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 110.027+/-0.033  $\chi^2/\text{NDF}$ : 2222617.4/17

- 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  $\chi^2$ /NDF: 4.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.3/9

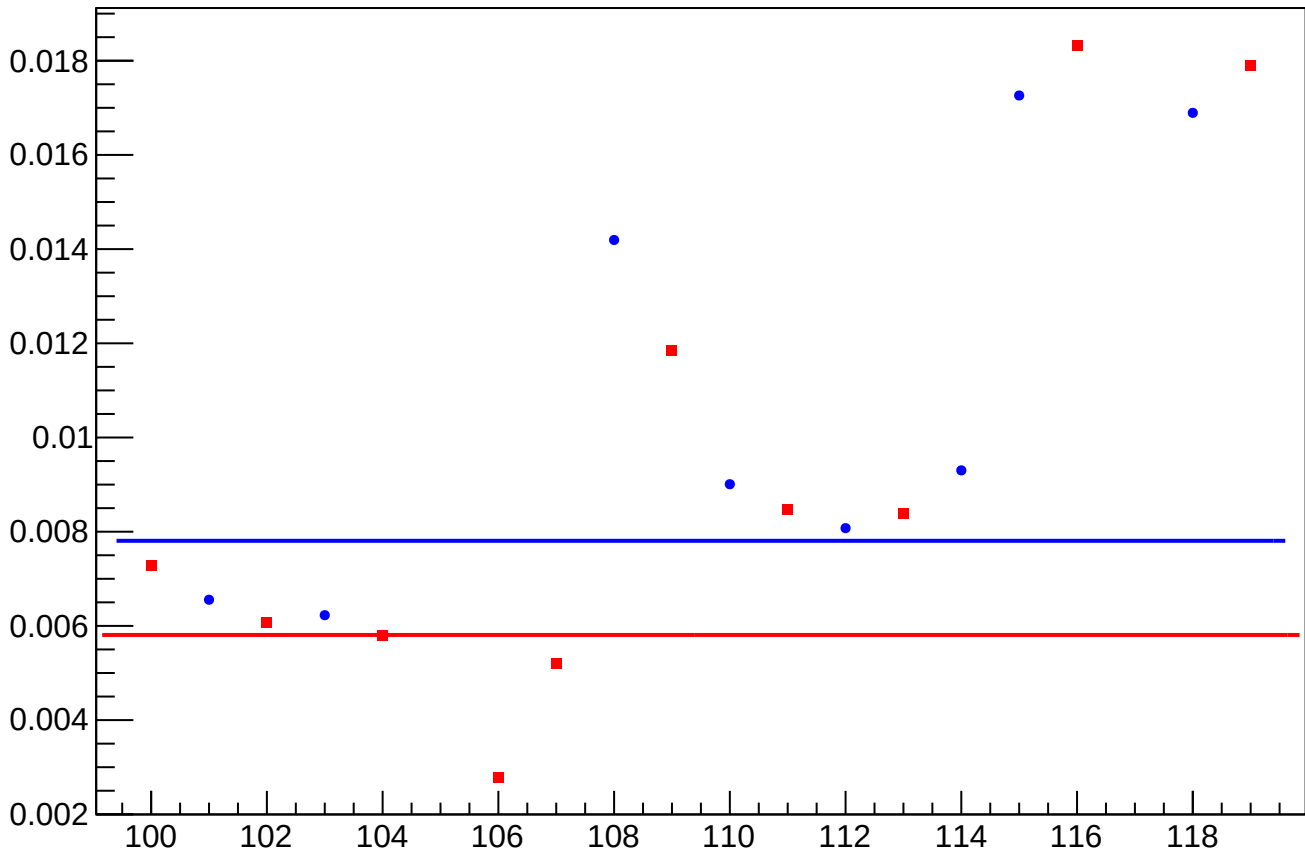
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 701941.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1794719.1/9

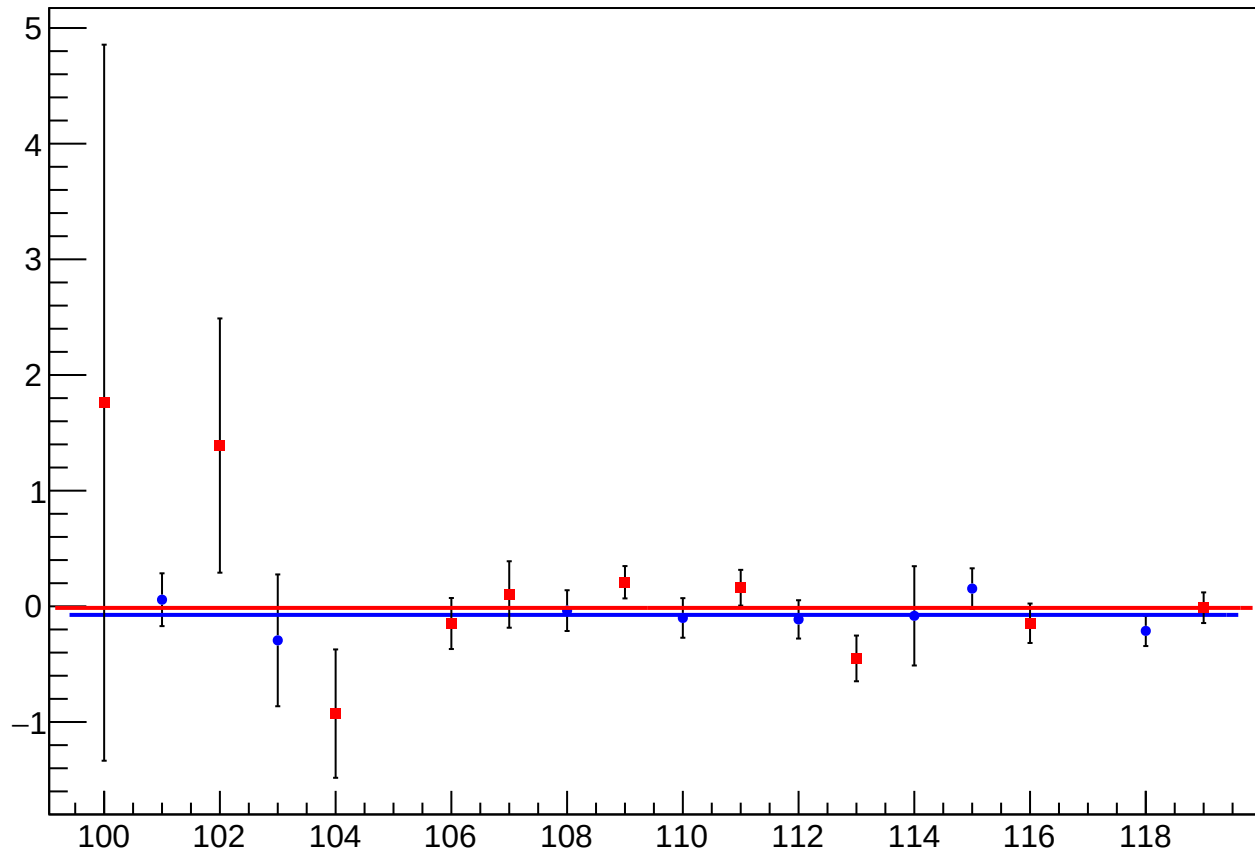
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2751637.0/17

- 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: -0.074 $\pm$ 0.067  $\chi^2$ /NDF: 3.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.014 $\pm$ 0.064  $\chi^2$ /NDF: 14.5/9

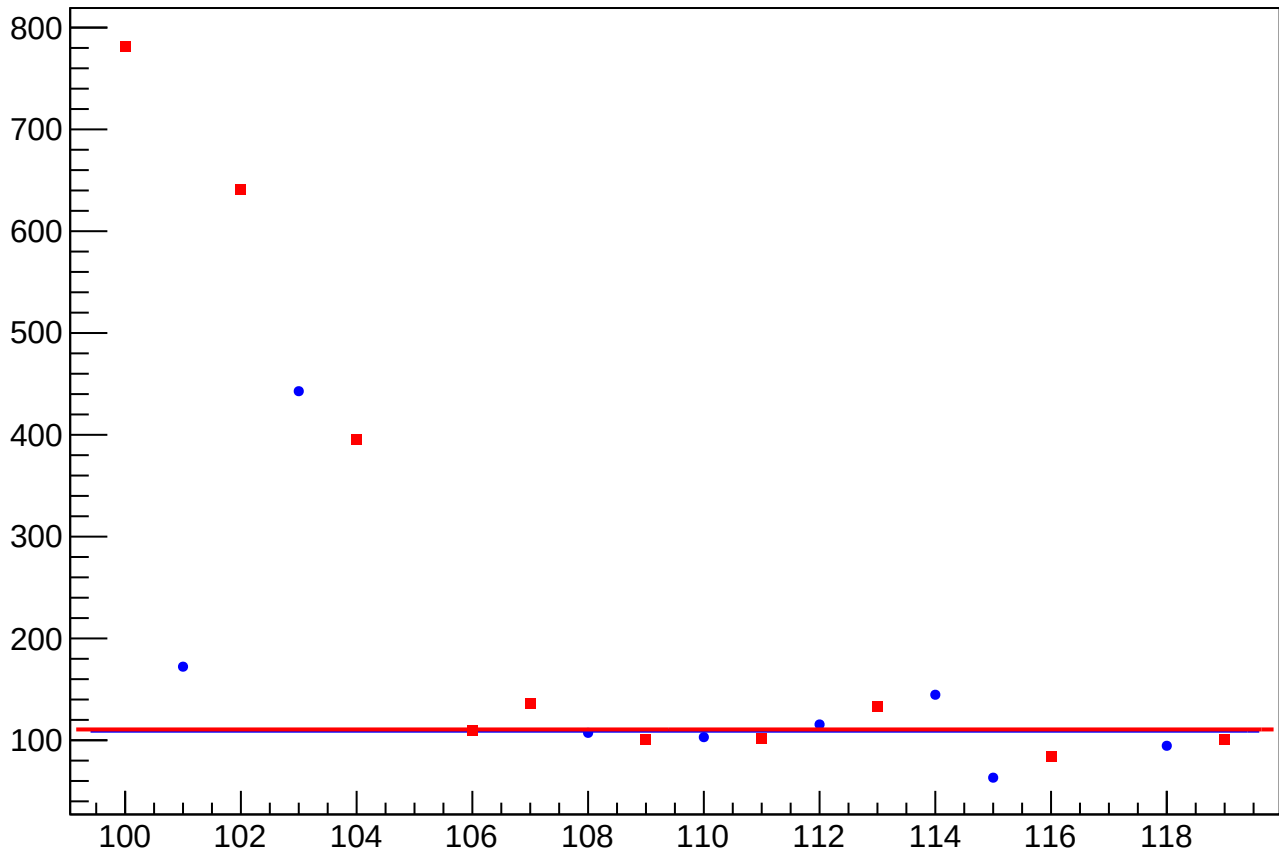
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.042 $\pm$ 0.046  $\chi^2$ /NDF: 18.3/17

- 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: 109.382 $\pm$ 0.048  $\chi^2$ /NDF: 1020212.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 110.608 $\pm$ 0.045  $\chi^2$ /NDF: 1201987.8/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

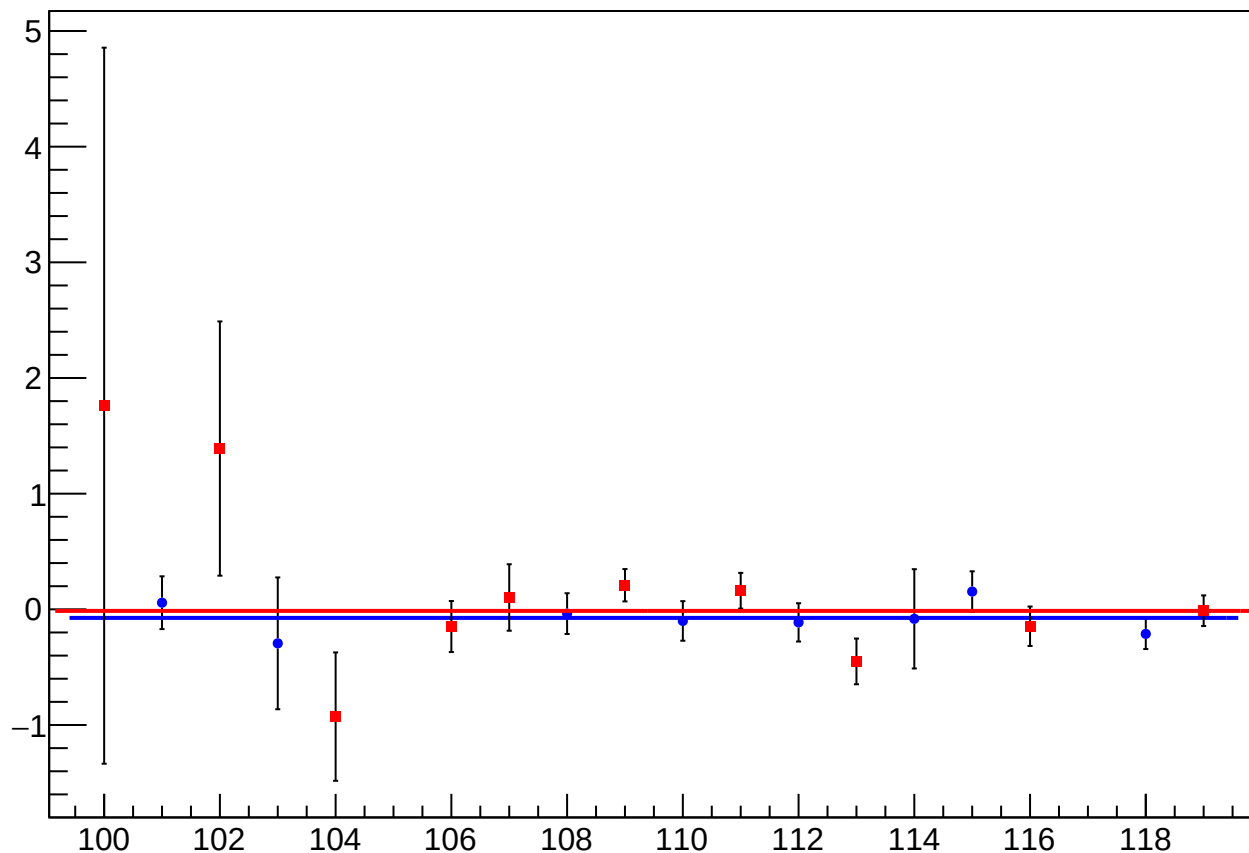
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.029 $\pm$ 0.033  $\chi^2$ /NDF: 2222550.8/17

- 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:  $-0.074 \pm 0.067$   $\chi^2/\text{NDF}$ : 3.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.014 \pm 0.064$   $\chi^2/\text{NDF}$ : 14.5/9

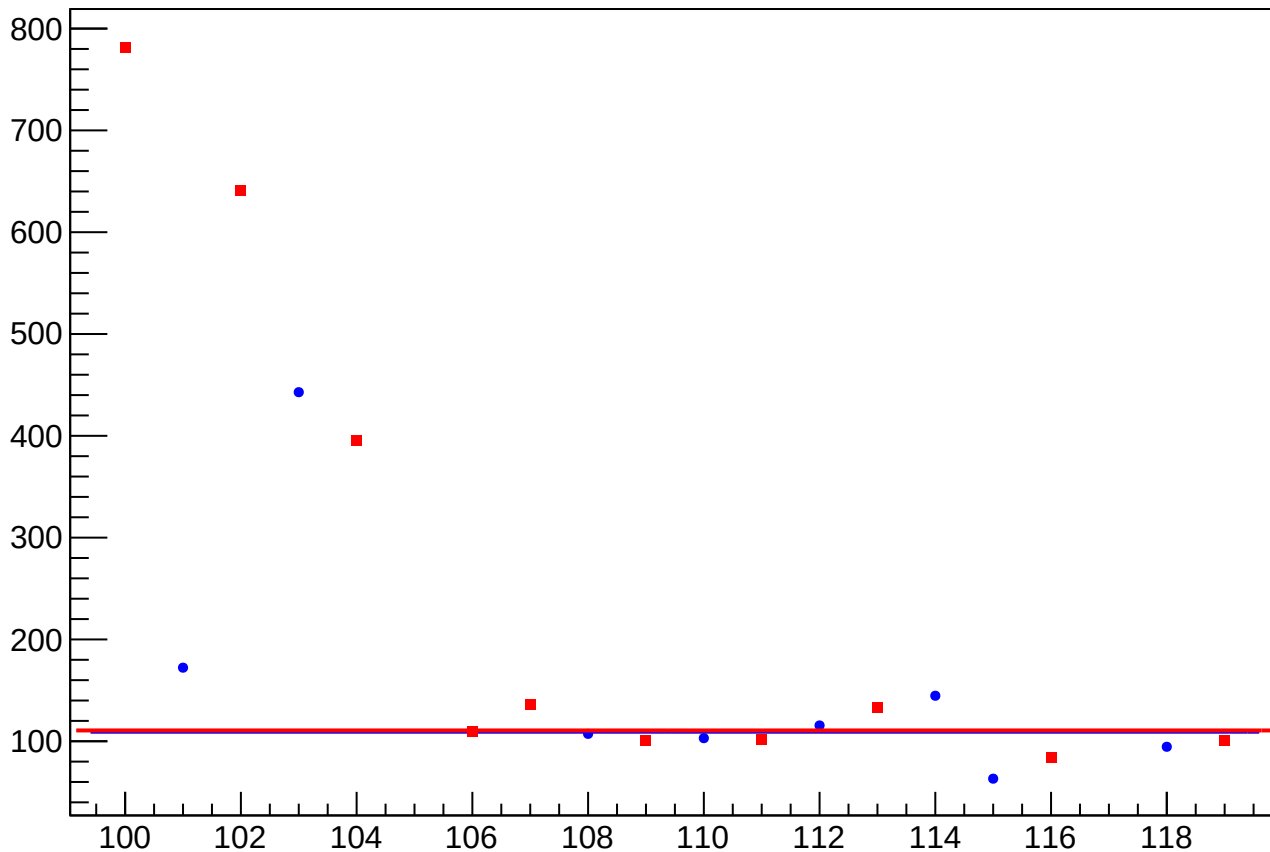
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.042 \pm 0.046$   $\chi^2/\text{NDF}$ : 18.3/17

- 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: 109.382 $\pm$ 0.048  $\chi^2$ /NDF: 1020212.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 110.608 $\pm$ 0.045  $\chi^2$ /NDF: 1201987.8/9

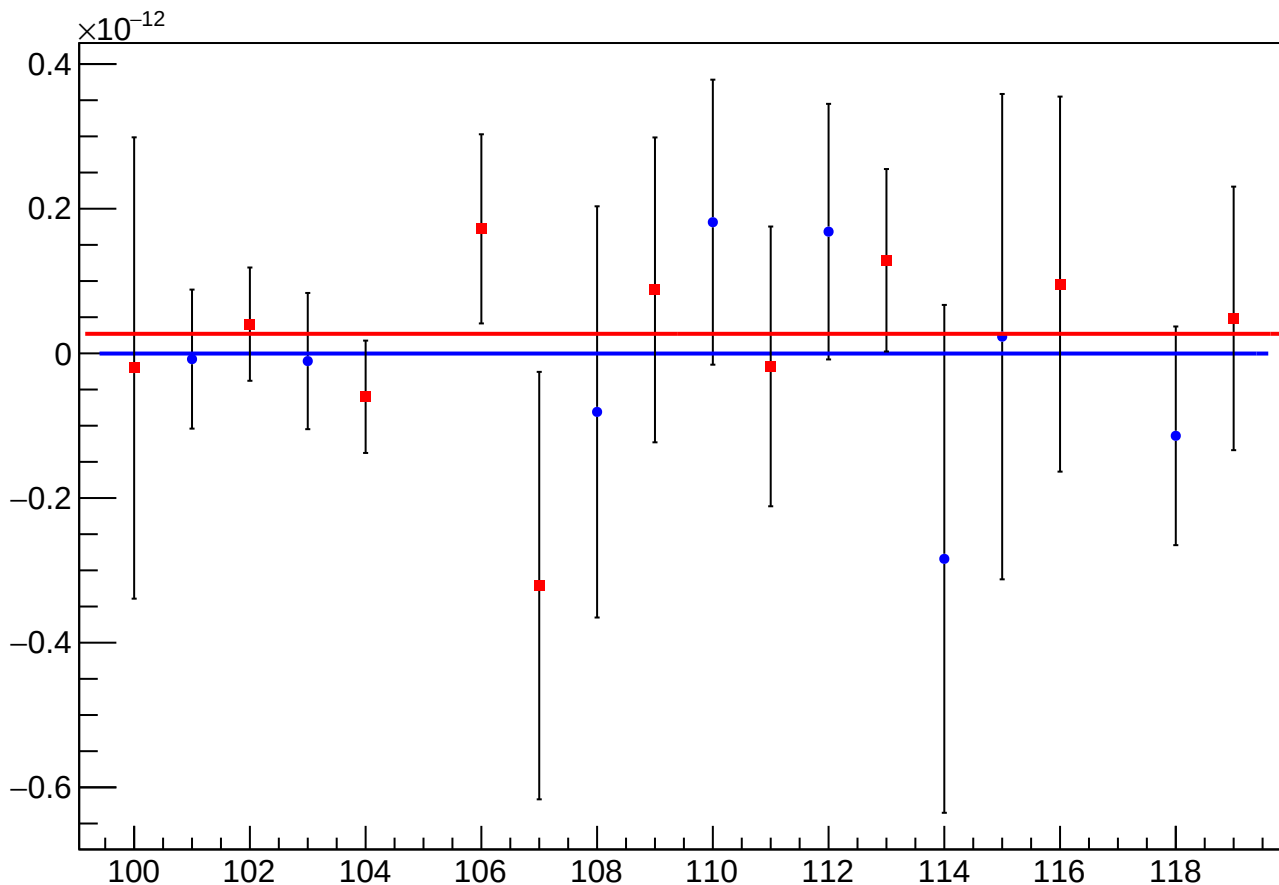
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.029 $\pm$ 0.033  $\chi^2$ /NDF: 2222550.8/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 3.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.8/9

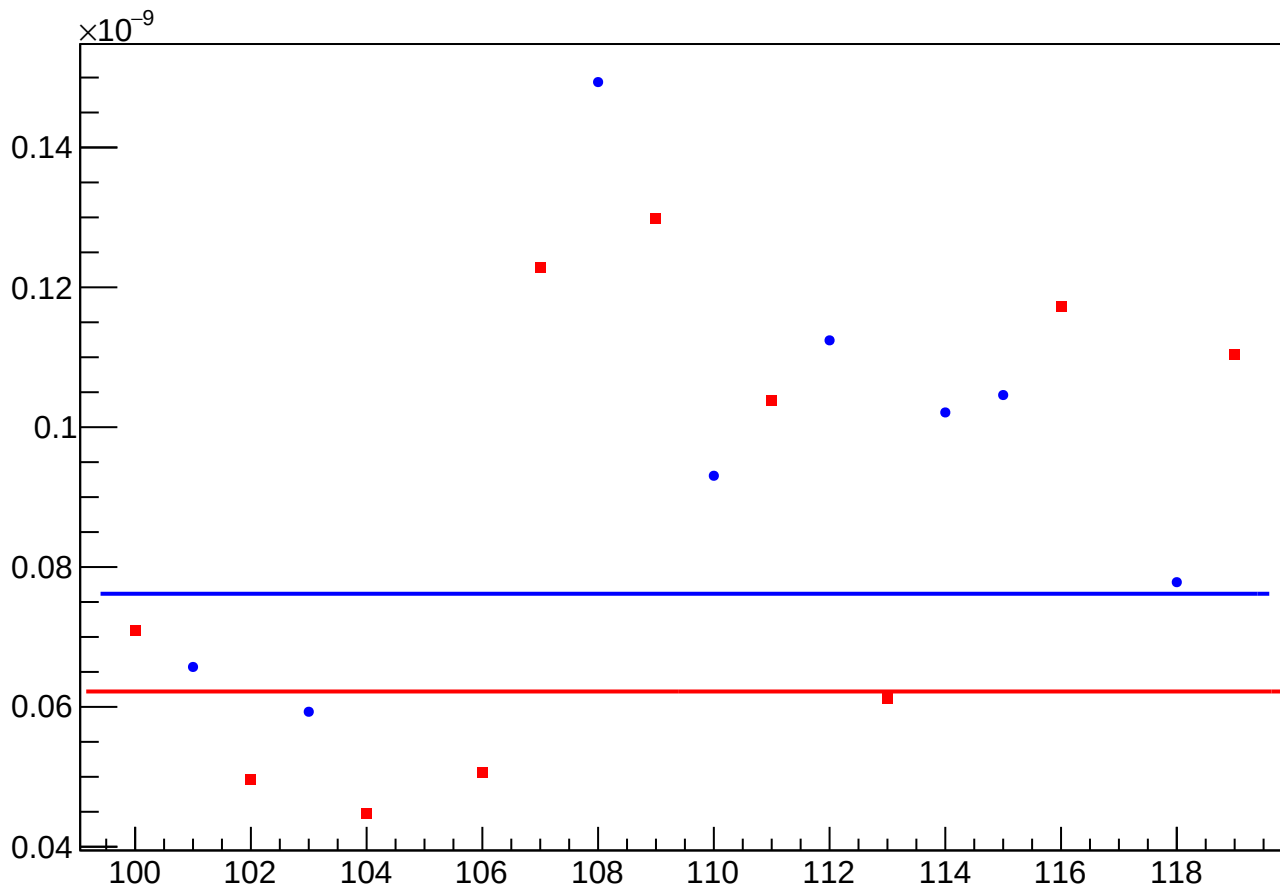
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 344779.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 783984.4/9

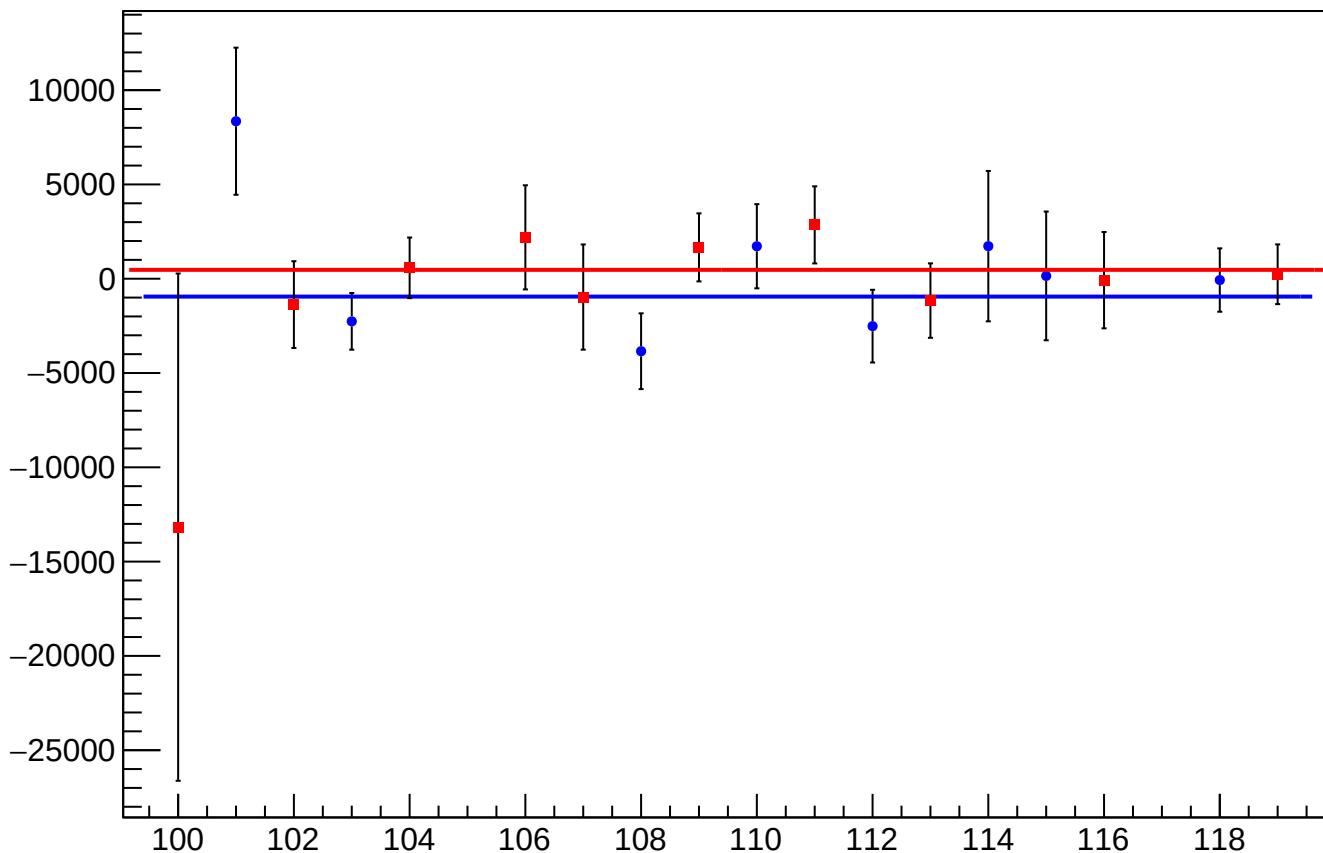
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1213522.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -947.654+/-760.329  $\chi^2$ /NDF: 11.4/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 470.574+/-674.645  $\chi^2$ /NDF: 4.9/9

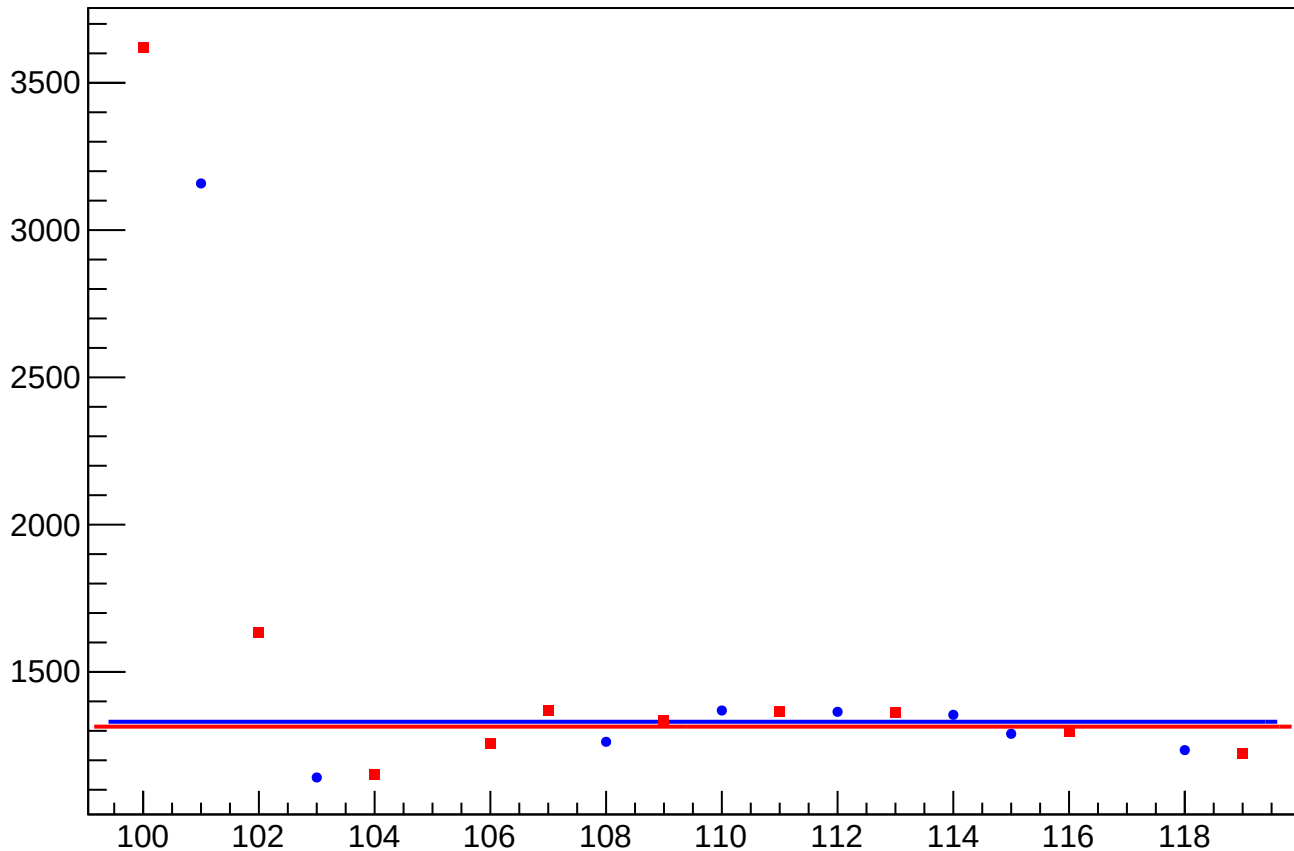
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -154.157+/-504.632  $\chi^2$ /NDF: 18.3/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1330.854+/-0.538  $\chi^2/\text{NDF}$ : 481305.4/7

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

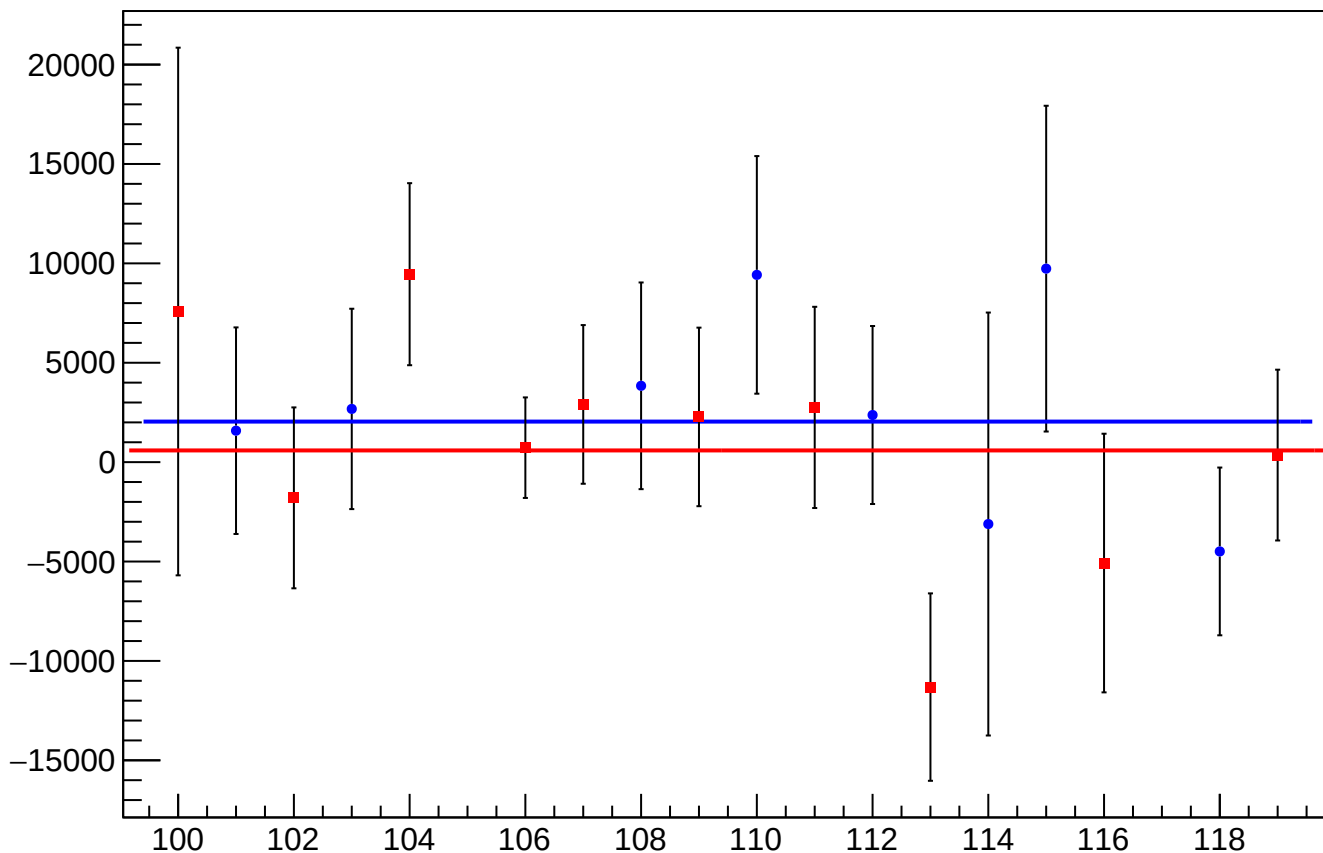
Right Out: 1314.269+/-0.475  $\chi^2/\text{NDF}$ : 129408.9/9

All: 1321.534+/-0.356  $\chi^2/\text{NDF}$ : 611249.0/17

- 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\_avg\_reg\_correction\_mean vs Slug



Right In: 2040.334 $\pm$ 1920.326  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 589.123 $\pm$ 1370.763  $\chi^2$ /NDF: 12.1/9

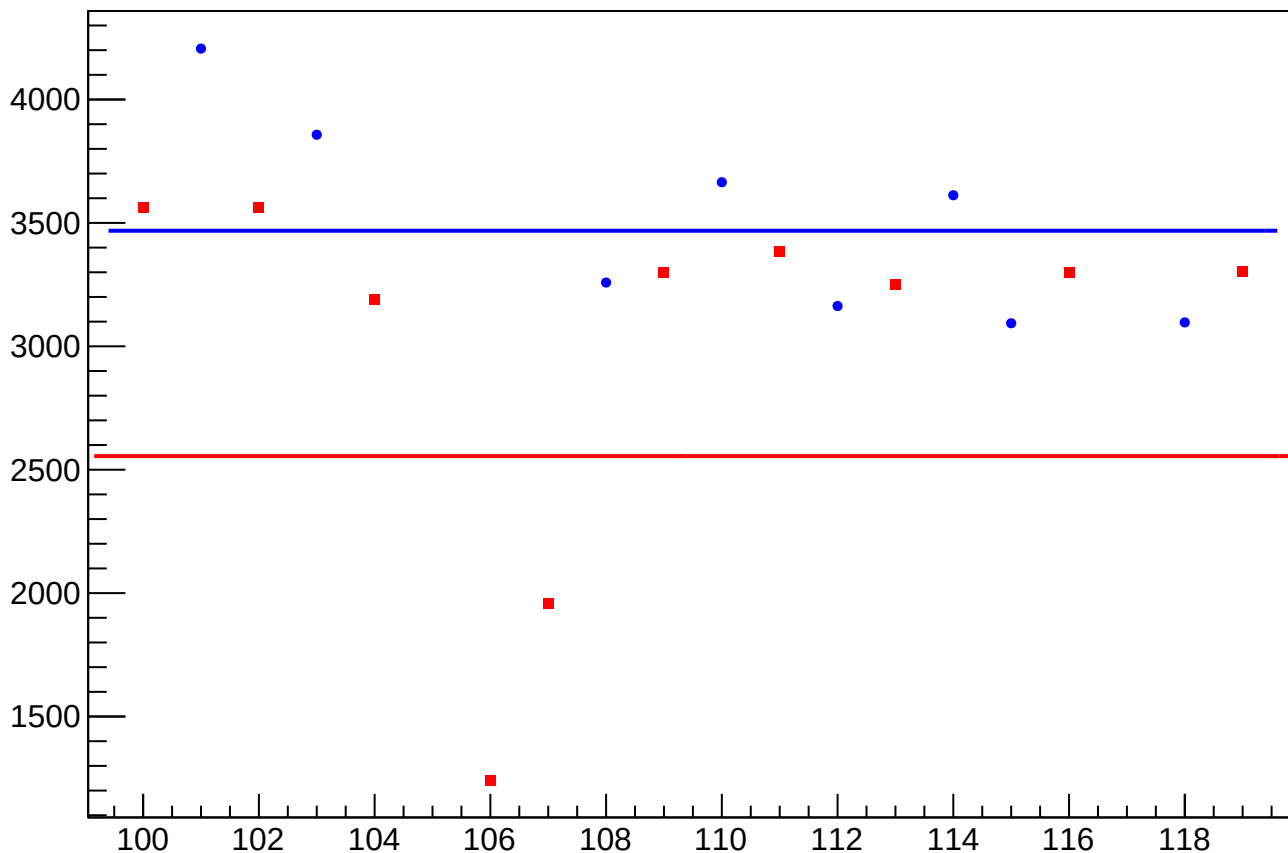
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1078.971 $\pm$ 1115.682  $\chi^2$ /NDF: 17.7/17

- 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: 3468.347 $\pm$ 1.358  $\chi^2$ /NDF: 87021.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2554.988 $\pm$ 0.969  $\chi^2$ /NDF: 970662.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

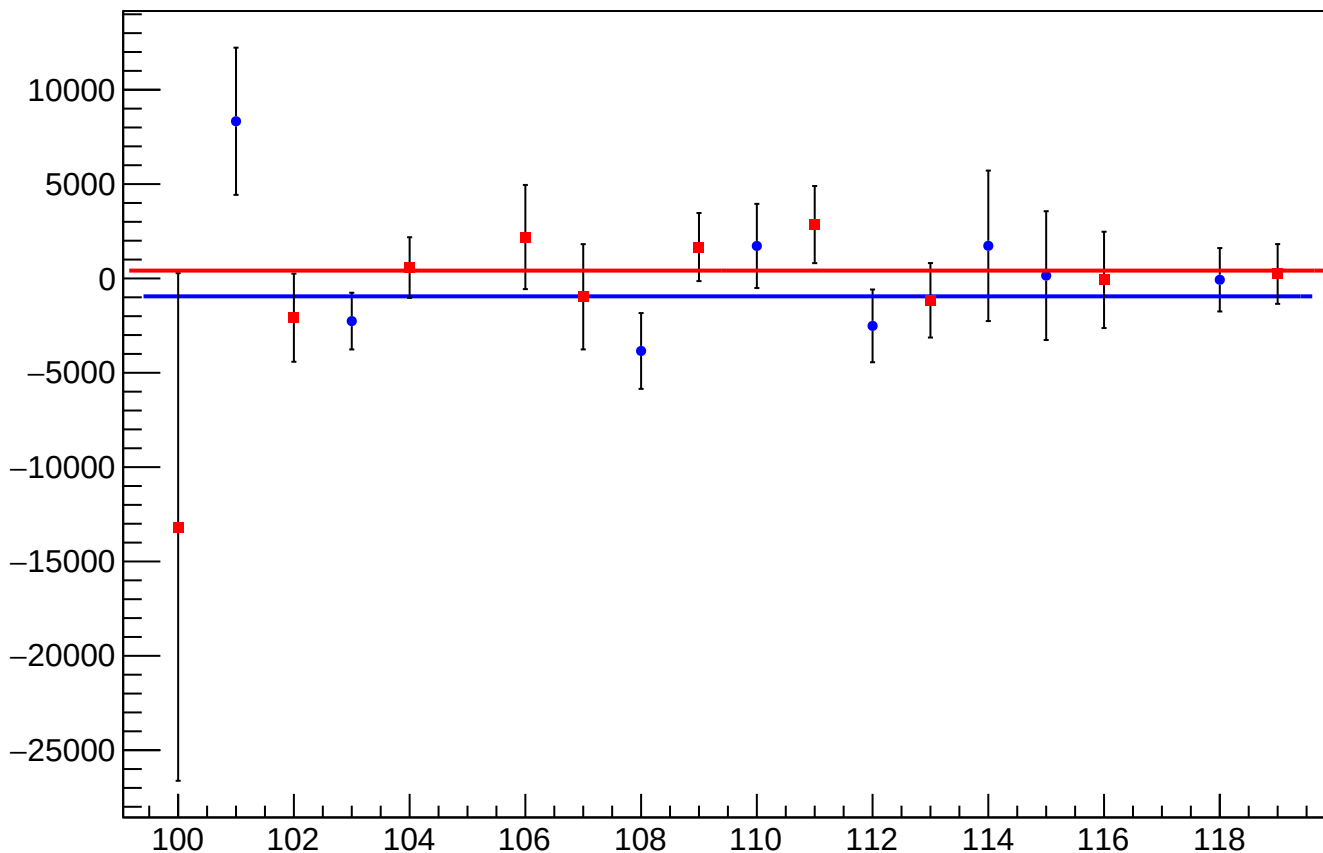
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2863.288 $\pm$ 0.789  $\chi^2$ /NDF: 1357406.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# cor\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -948.478+/-760.329  $\chi^2$ /NDF: 11.4/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 415.983+/-675.503  $\chi^2$ /NDF: 5.4/9

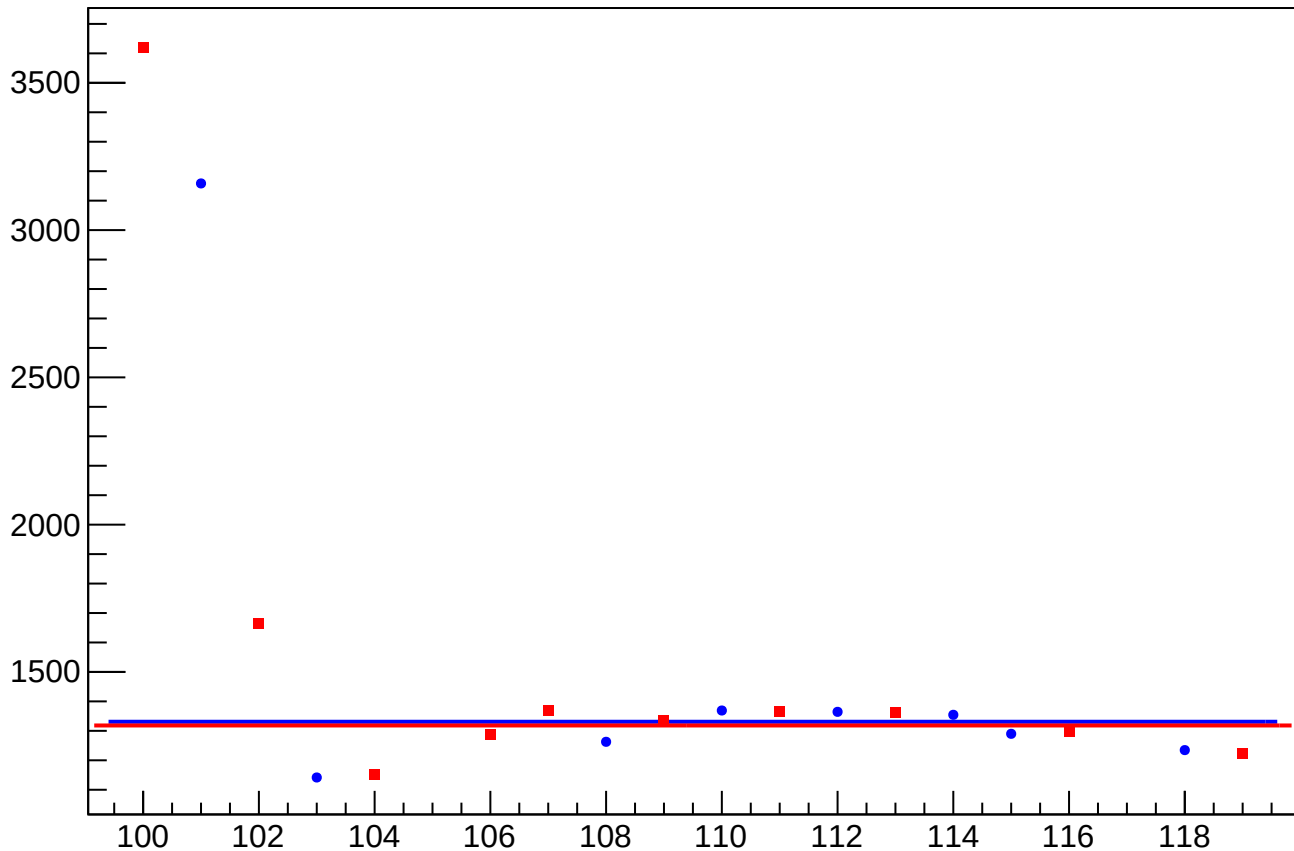
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -185.918+/-504.991  $\chi^2$ /NDF: 18.6/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1330.854+/-0.538  $\chi^2/\text{NDF}$ : 481307.0/7

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

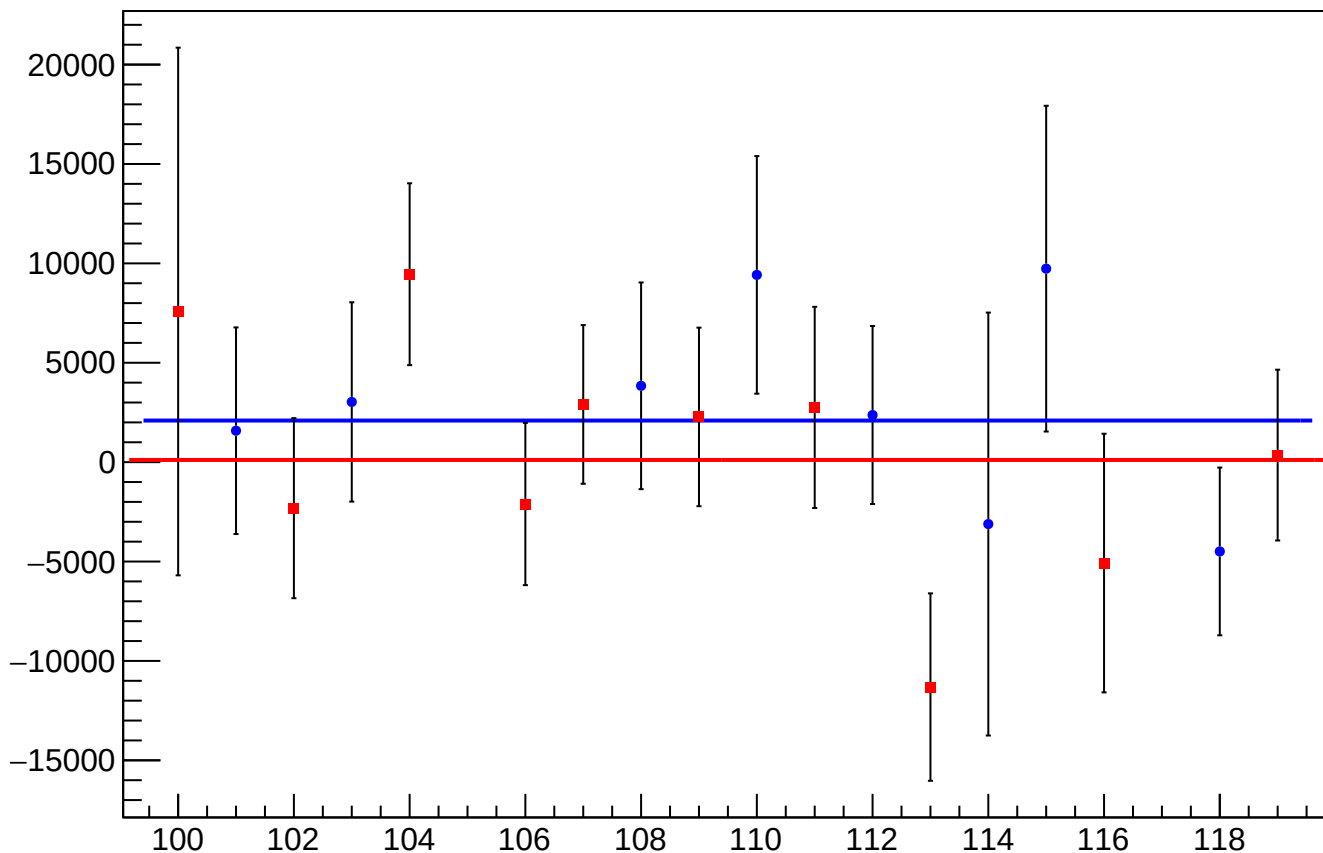
Right Out: 1318.227+/-0.476  $\chi^2/\text{NDF}$ : 135367.2/9

All: 1323.775+/-0.356  $\chi^2/\text{NDF}$ : 616983.4/17

- 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\_avg\_cor\_correction\_mean vs Slug



Right In: 2092.588 $\pm$ 1918.942  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 110.453 $\pm$ 1513.776  $\chi^2$ /NDF: 12.6/9

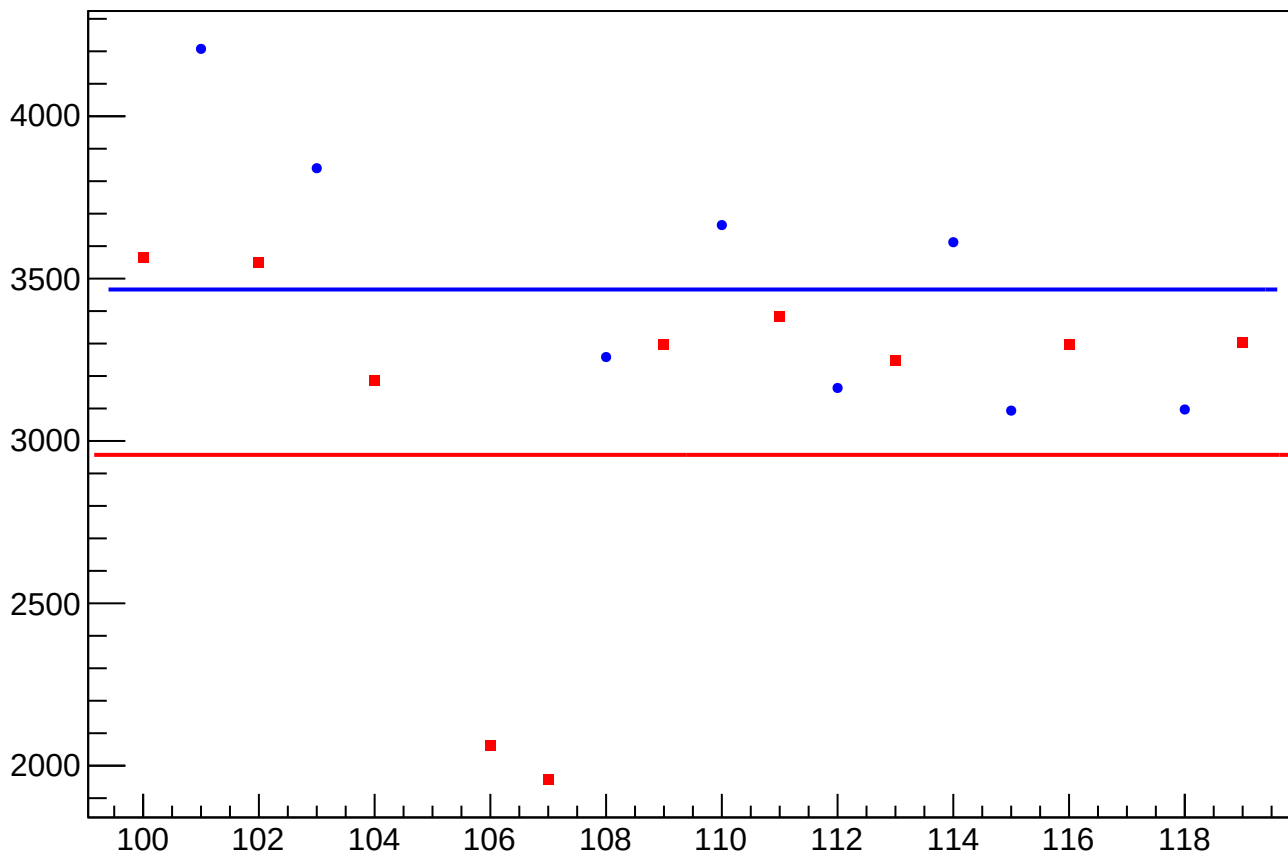
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 870.782 $\pm$ 1188.491  $\chi^2$ /NDF: 18.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_cor\_correction\_rms vs Slug



Right In: 3466.488+/-1.357  $\chi^2/\text{NDF}$ : 86197.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2957.186+/-1.070  $\chi^2/\text{NDF}$ : 317255.0/9

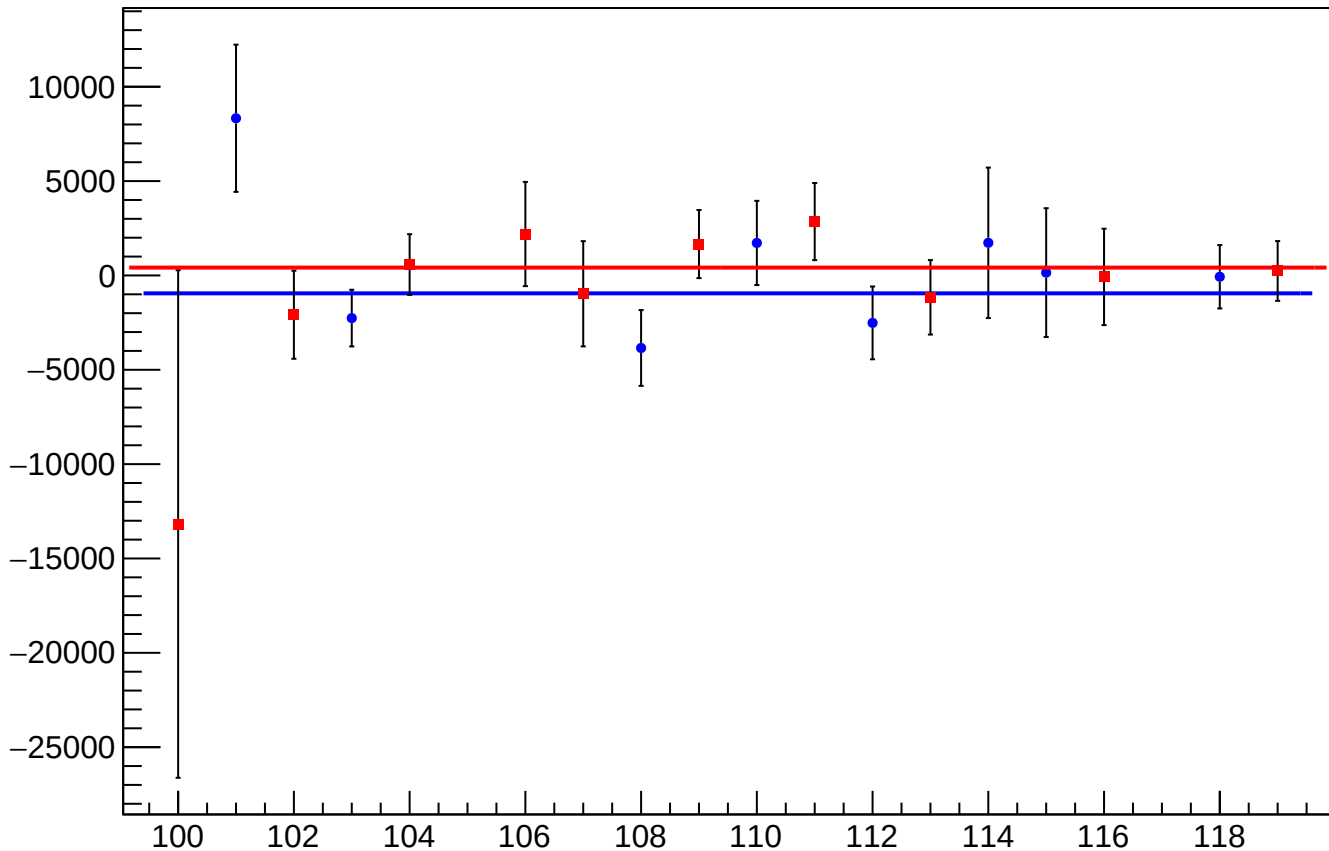
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3152.549+/-0.840  $\chi^2/\text{NDF}$ : 490293.5/17

- 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: -948.478+/-760.329  $\chi^2$ /NDF: 11.4/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 415.983+/-675.503  $\chi^2$ /NDF: 5.4/9

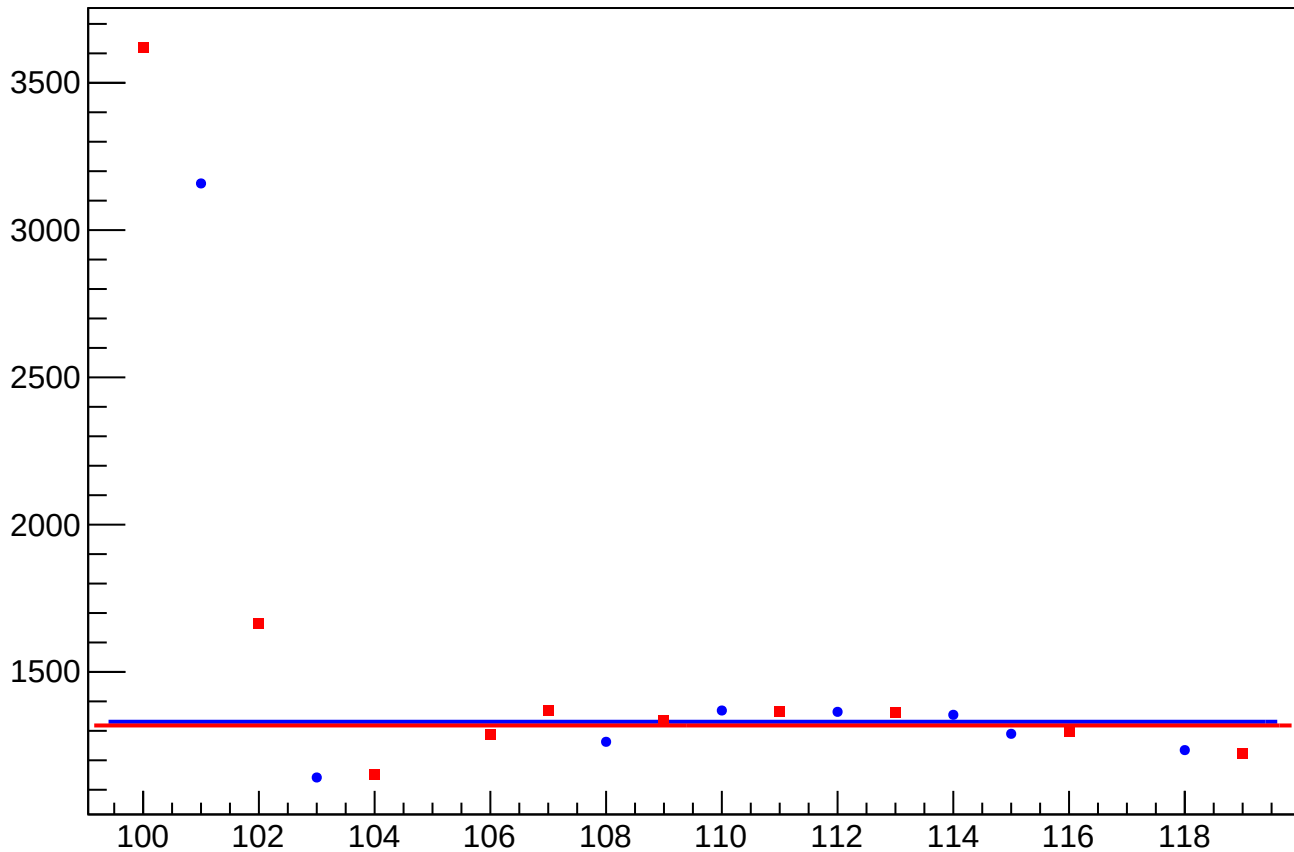
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -185.918+/-504.991  $\chi^2$ /NDF: 18.6/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1330.854+/-0.538  $\chi^2/\text{NDF}$ : 481307.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1318.227+/-0.476  $\chi^2/\text{NDF}$ : 135367.2/9

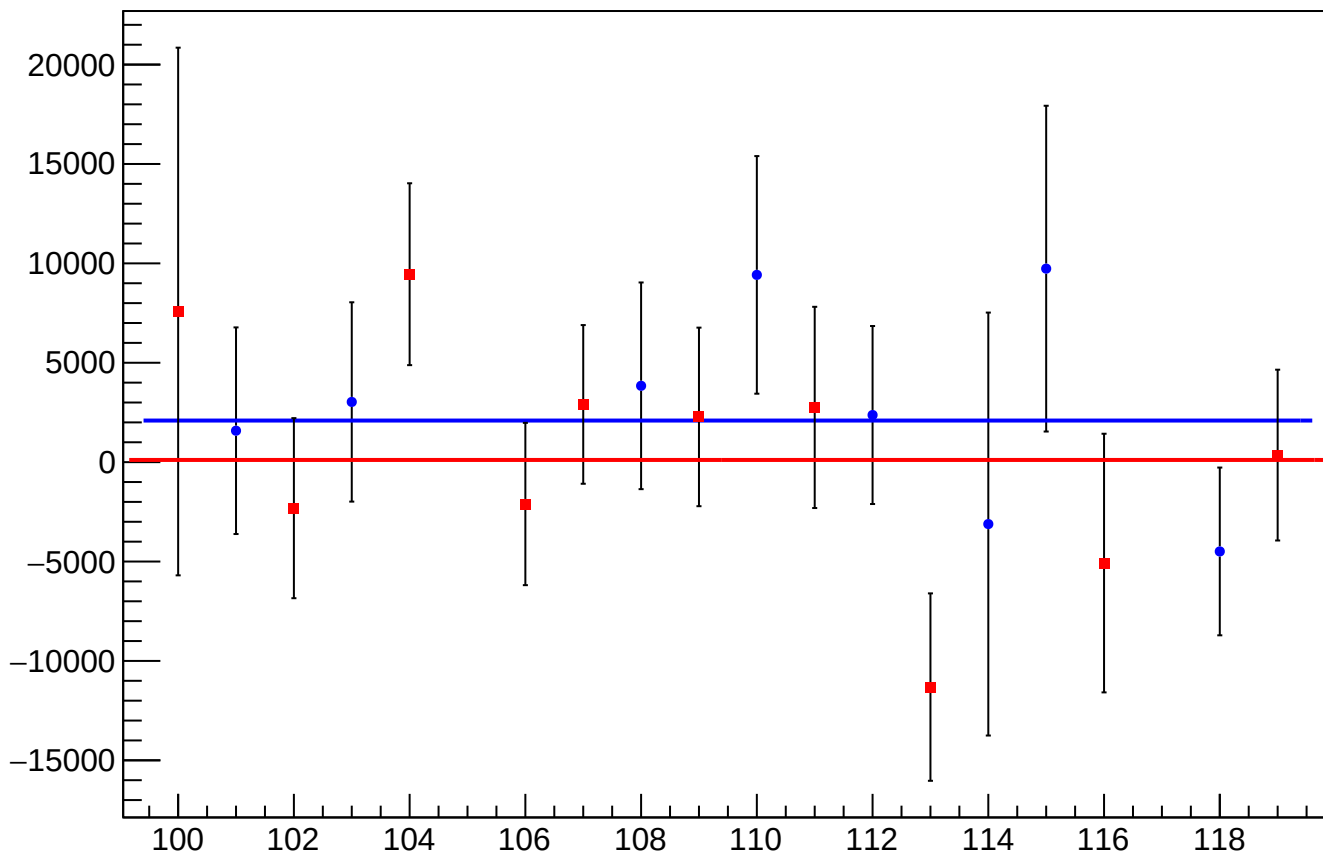
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1323.775+/-0.356  $\chi^2/\text{NDF}$ : 616983.4/17

- 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: 2092.588 $\pm$ 1918.942  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 110.453 $\pm$ 1513.776  $\chi^2$ /NDF: 12.6/9

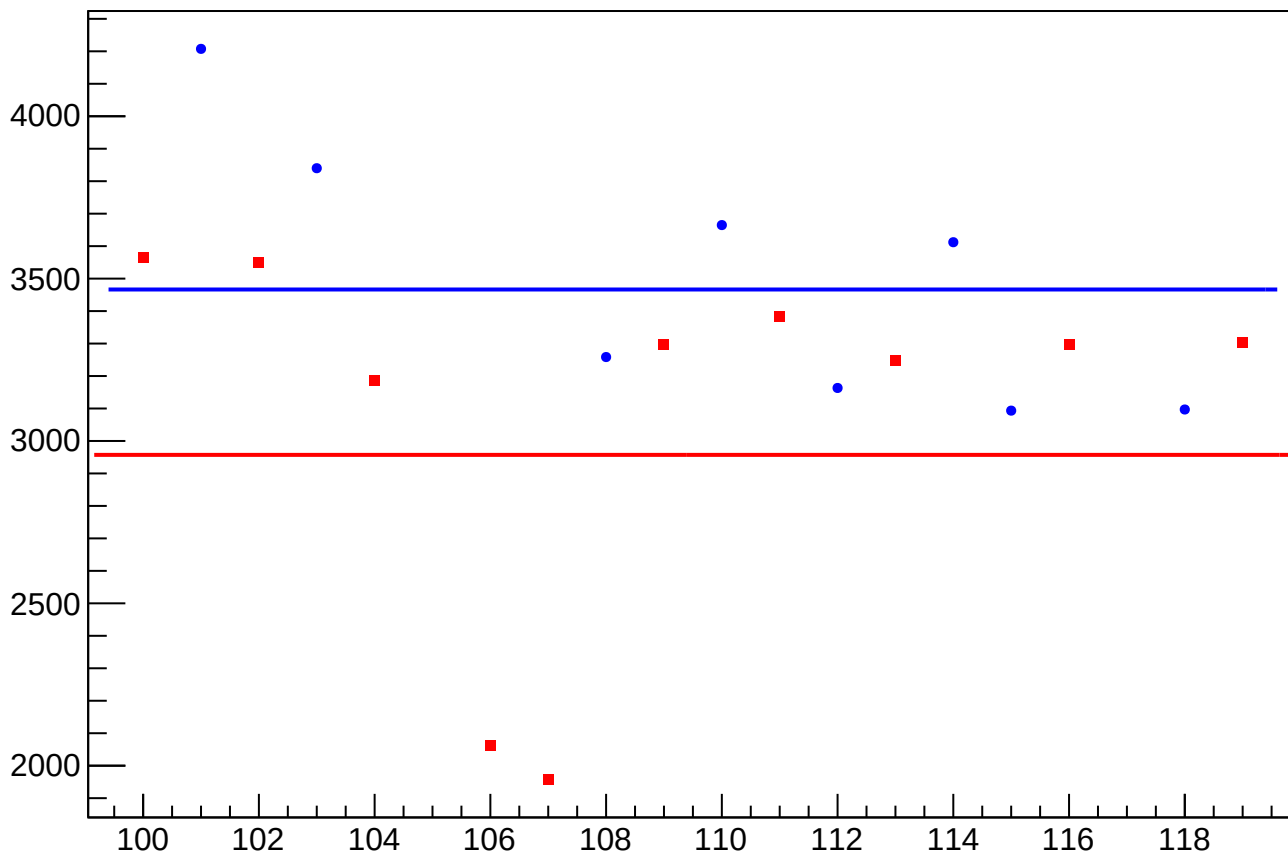
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 870.782 $\pm$ 1188.491  $\chi^2$ /NDF: 18.4/17

- 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: 3466.488 $\pm$ 1.357  $\chi^2$ /NDF: 86197.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2957.186 $\pm$ 1.070  $\chi^2$ /NDF: 317255.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

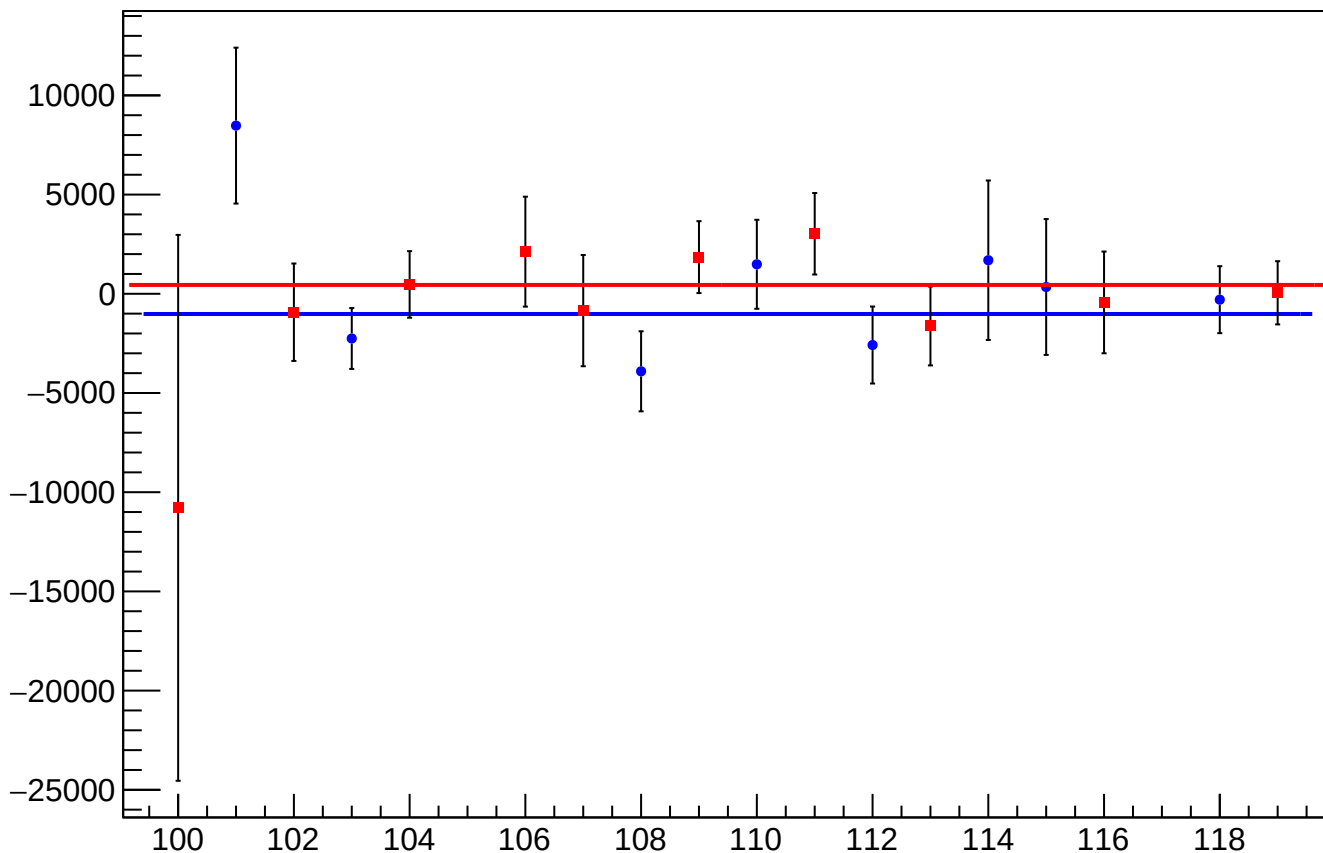
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3152.549 $\pm$ 0.840  $\chi^2$ /NDF: 490293.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -1018.249 $\pm$ 767.356  $\chi^2$ /NDF: 11.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 446.283 $\pm$ 685.988  $\chi^2$ /NDF: 5.0/9

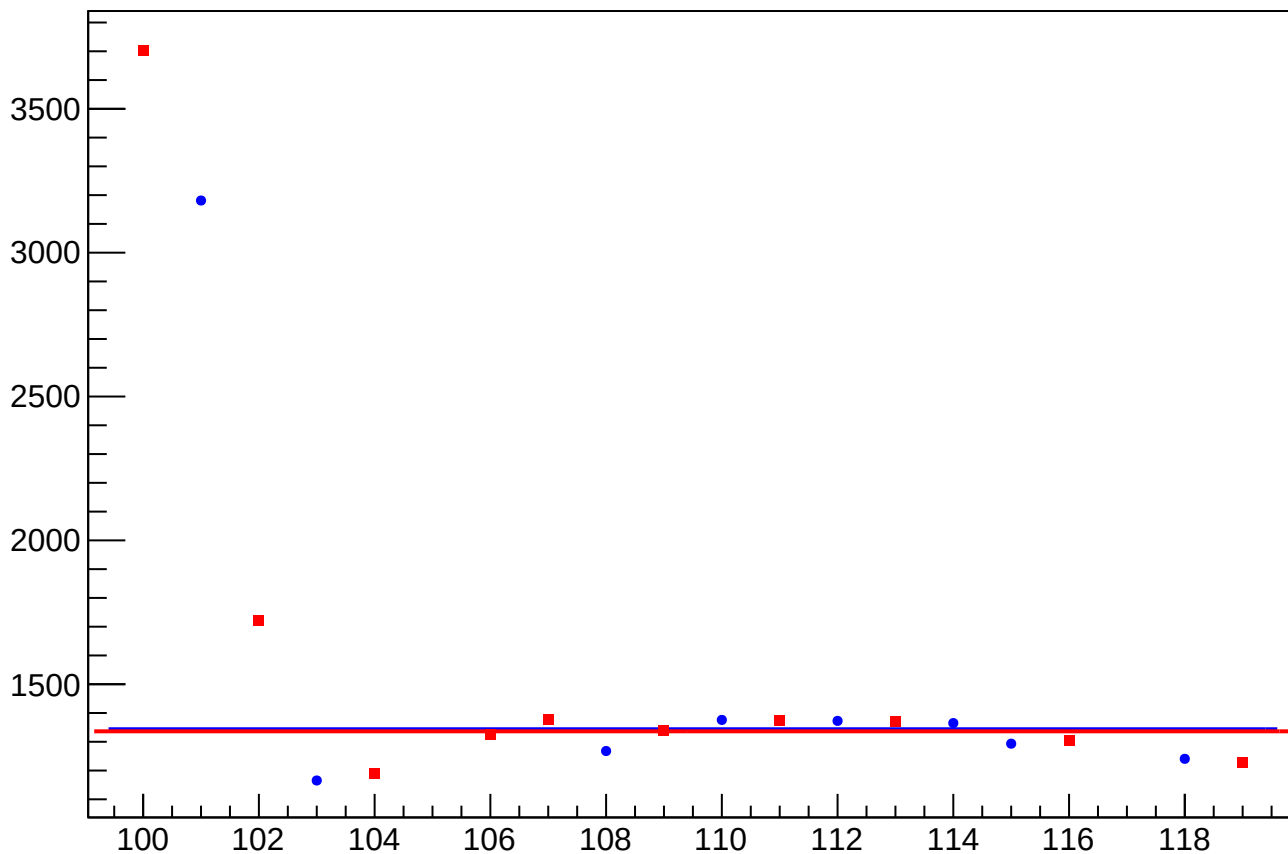
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -204.245 $\pm$ 511.423  $\chi^2$ /NDF: 18.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1343.497 $\pm$ 0.543  $\chi^2$ /NDF: 476053.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1336.319 $\pm$ 0.484  $\chi^2$ /NDF: 134582.2/9

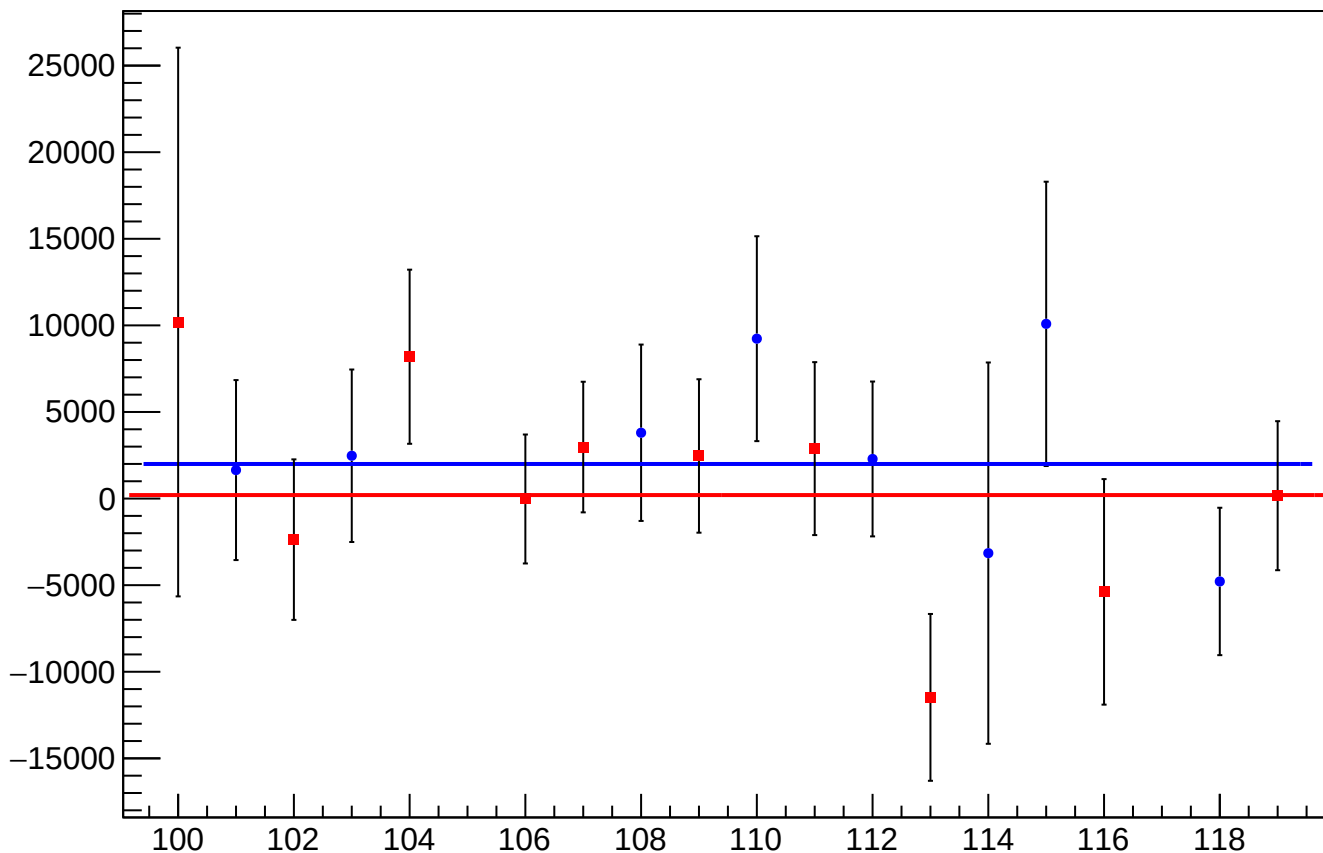
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1339.502 $\pm$ 0.361  $\chi^2$ /NDF: 610732.7/17

- 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: 1997.194 $\pm$ 1914.404  $\chi^2$ /NDF: 5.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 202.496 $\pm$ 1500.109  $\chi^2$ /NDF: 10.9/9

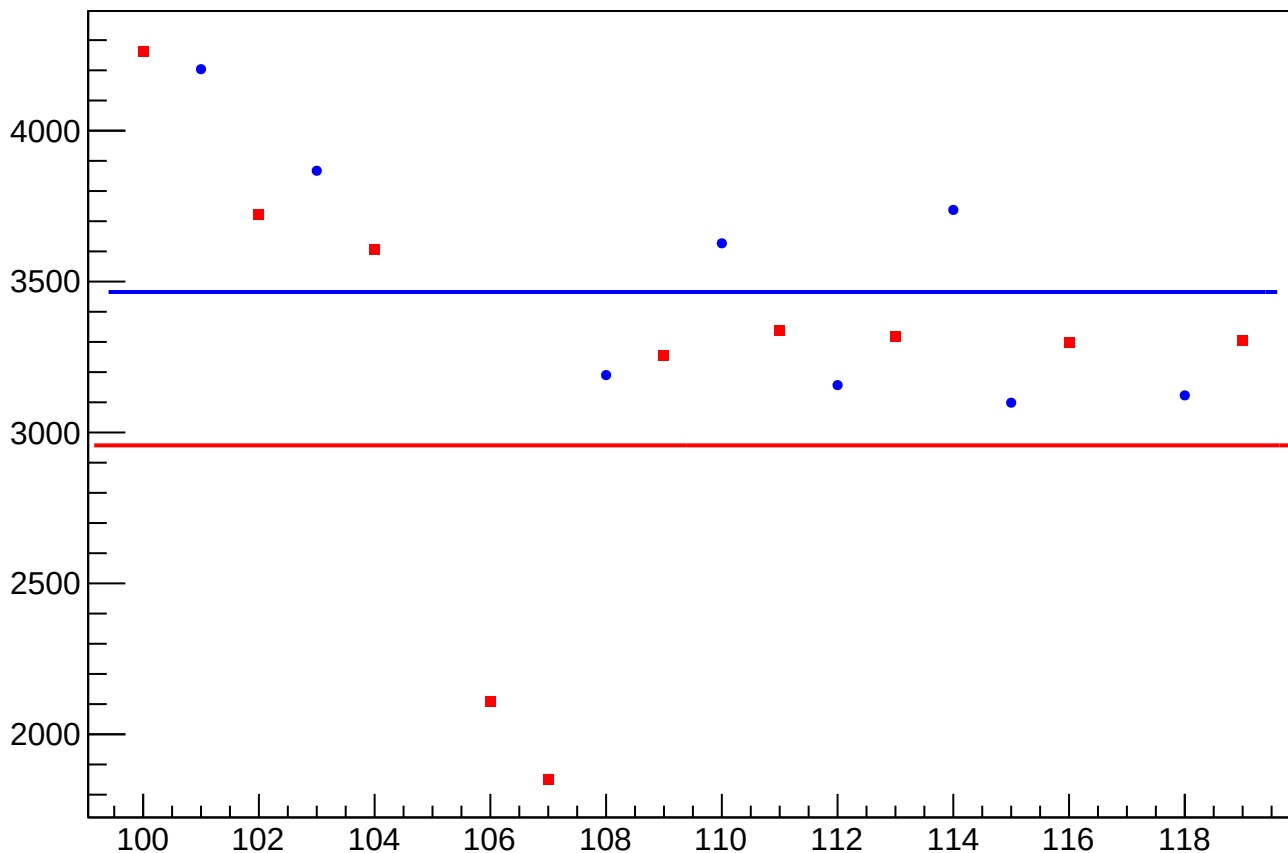
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 885.247 $\pm$ 1180.780  $\chi^2$ /NDF: 16.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_dit\_correction\_rms vs Slug



Right In: 3465.464+/-1.354  $\chi^2/\text{NDF}$ : 88418.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2957.346+/-1.061  $\chi^2/\text{NDF}$ : 428864.4/9

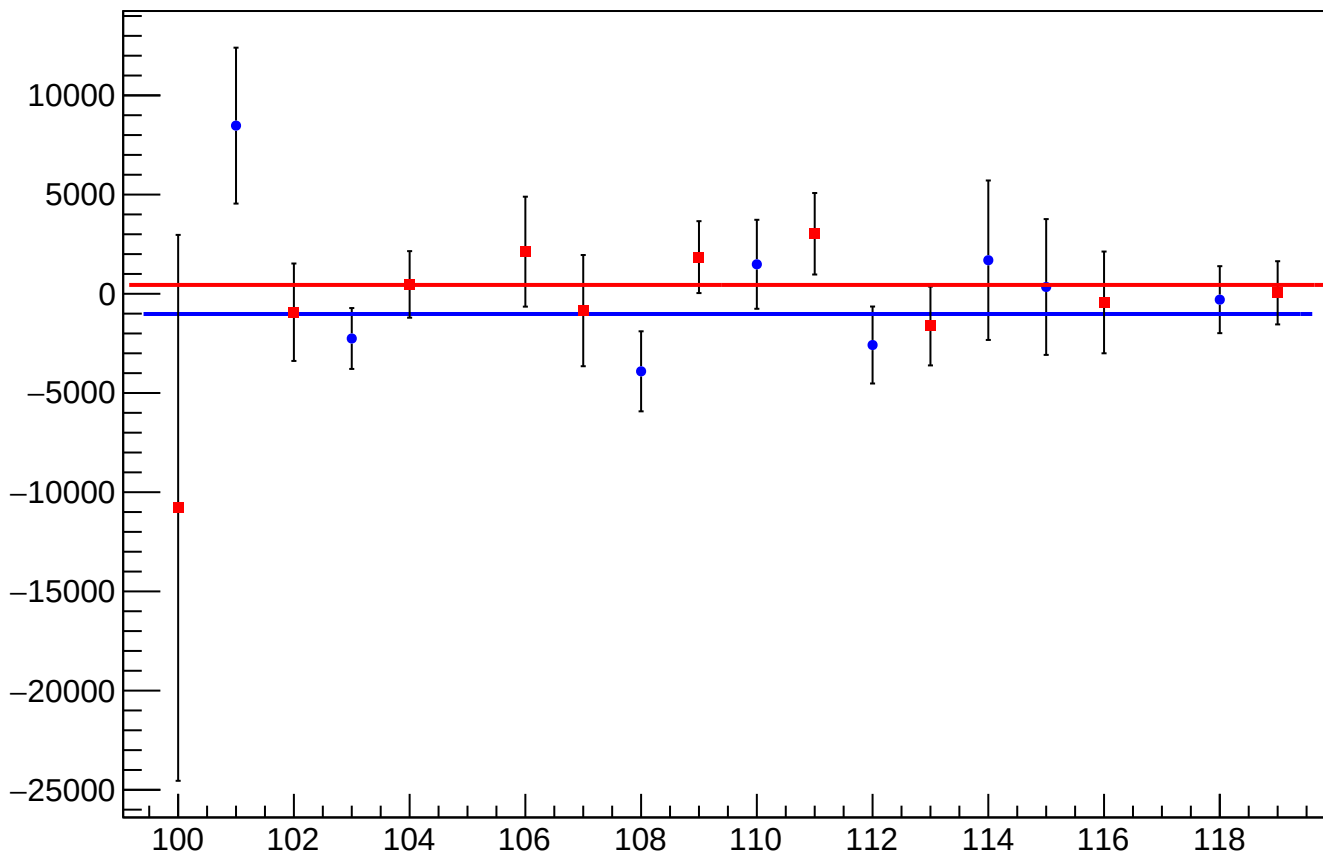
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3150.648+/-0.835  $\chi^2/\text{NDF}$ : 604577.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -1018.252 $\pm$ 767.356  $\chi^2$ /NDF: 11.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 446.292 $\pm$ 685.988  $\chi^2$ /NDF: 5.0/9

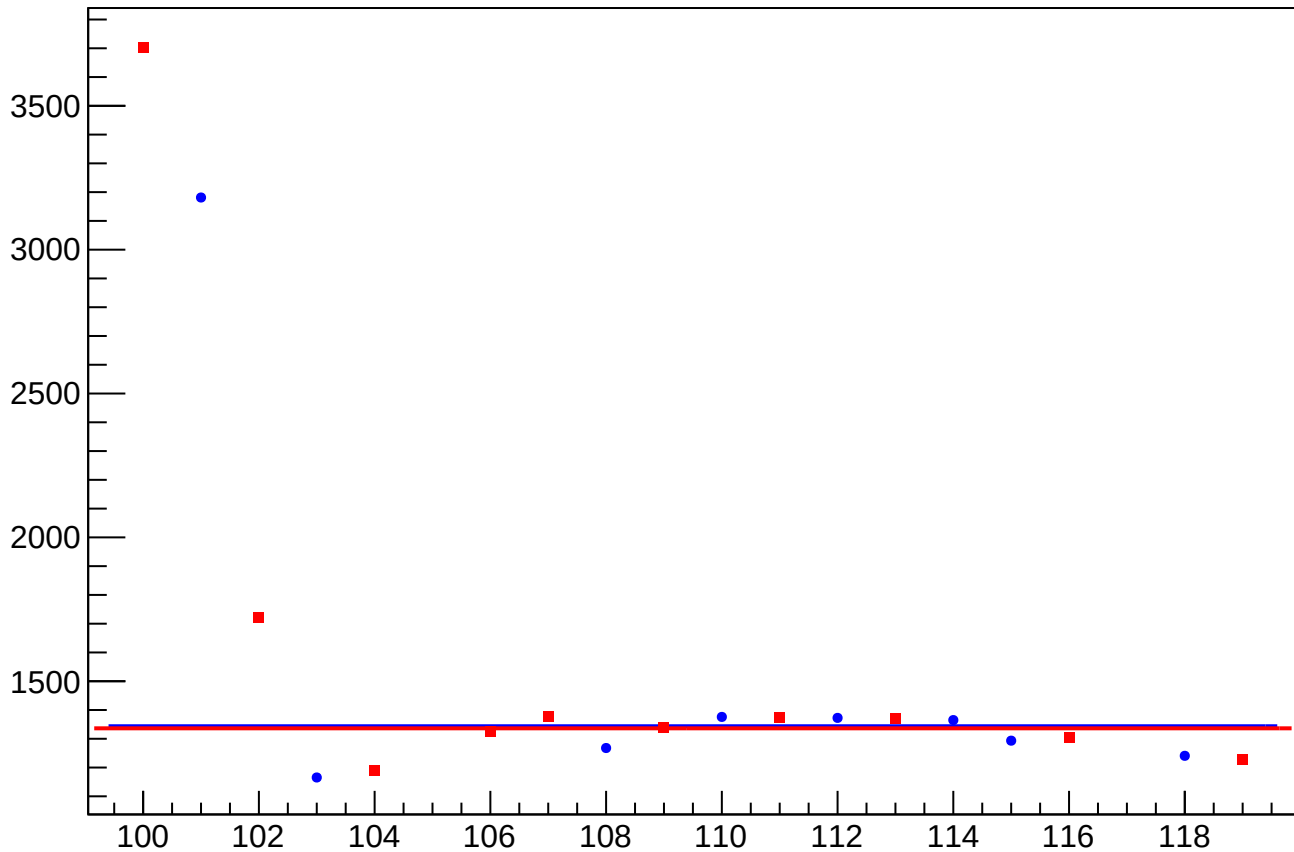
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -204.242 $\pm$ 511.423  $\chi^2$ /NDF: 18.3/17

- 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: 1343.497+/-0.543  $\chi^2/\text{NDF}$ : 476053.2/7

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

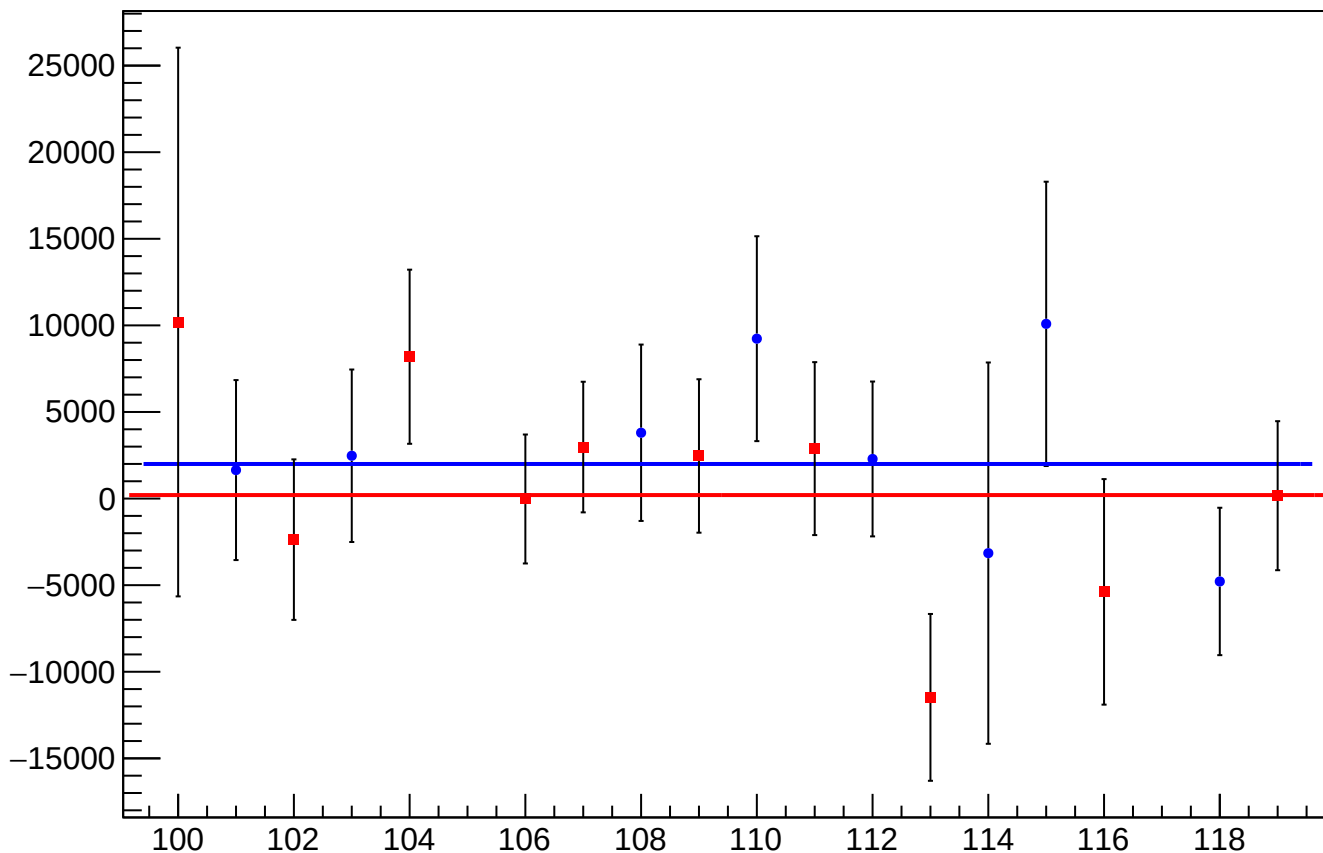
Right Out: 1336.319+/-0.484  $\chi^2/\text{NDF}$ : 134582.2/9

All: 1339.502+/-0.361  $\chi^2/\text{NDF}$ : 610732.8/17

- 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\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 1997.186+/-1914.399  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 202.501+/-1500.106  $\chi^2/\text{NDF}$ : 10.9/9

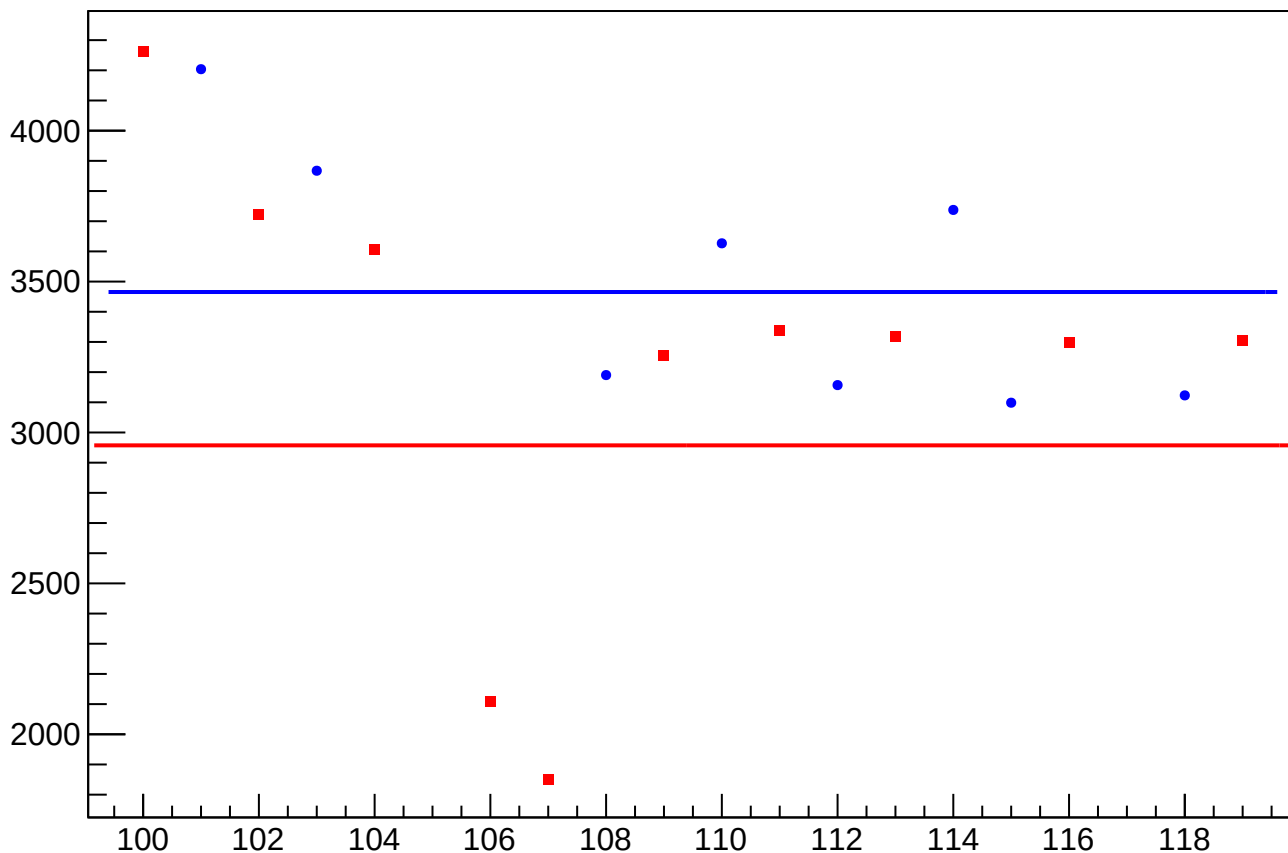
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 885.247+/-1180.778  $\chi^2/\text{NDF}$ : 16.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 3465.456 $\pm$ 1.354  $\chi^2$ /NDF: 88420.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2957.339 $\pm$ 1.061  $\chi^2$ /NDF: 428866.2/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

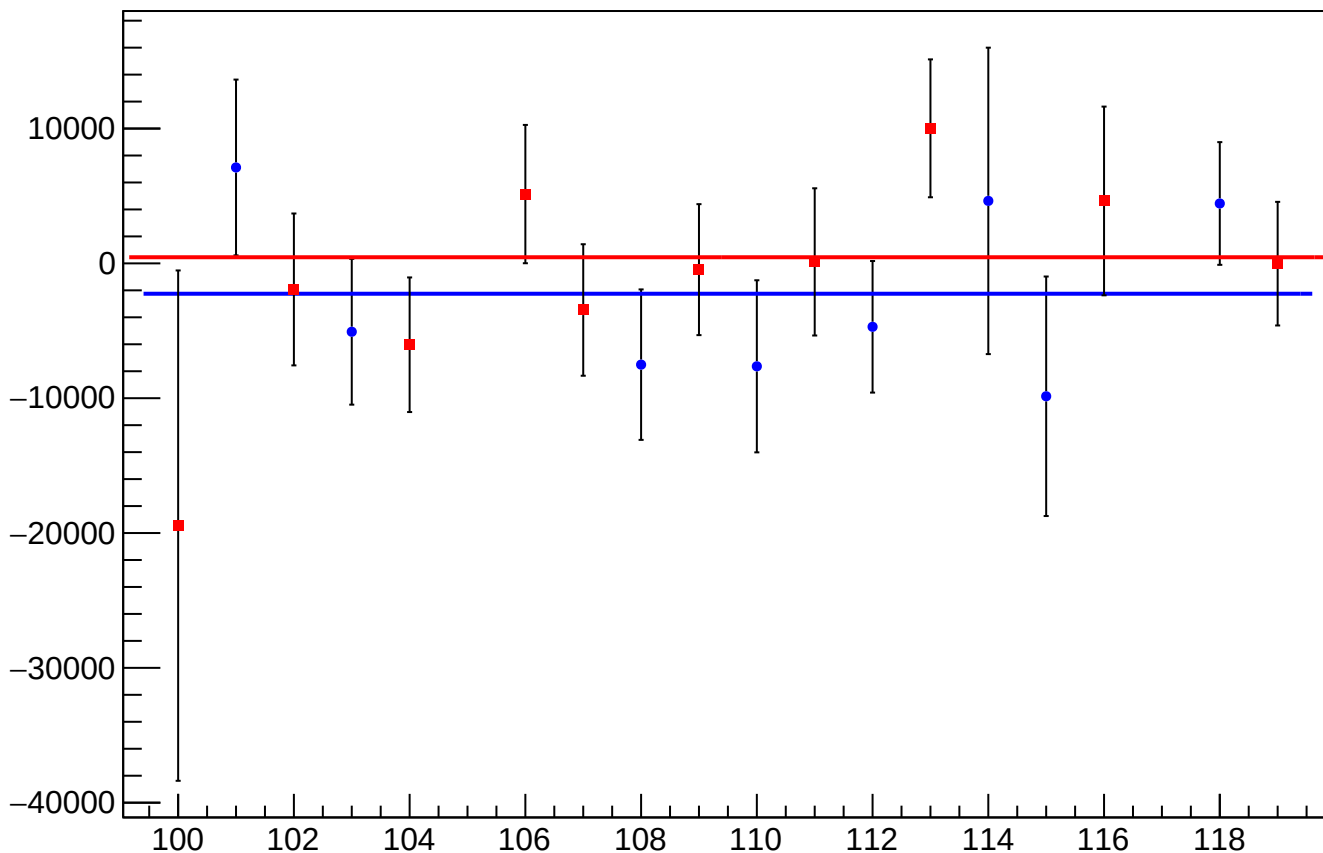
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3150.640 $\pm$ 0.835  $\chi^2$ /NDF: 604581.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -2251.884+/-2107.518  $\chi^2/\text{NDF}$ : 7.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 454.670+/-1723.460  $\chi^2/\text{NDF}$ : 8.4/9

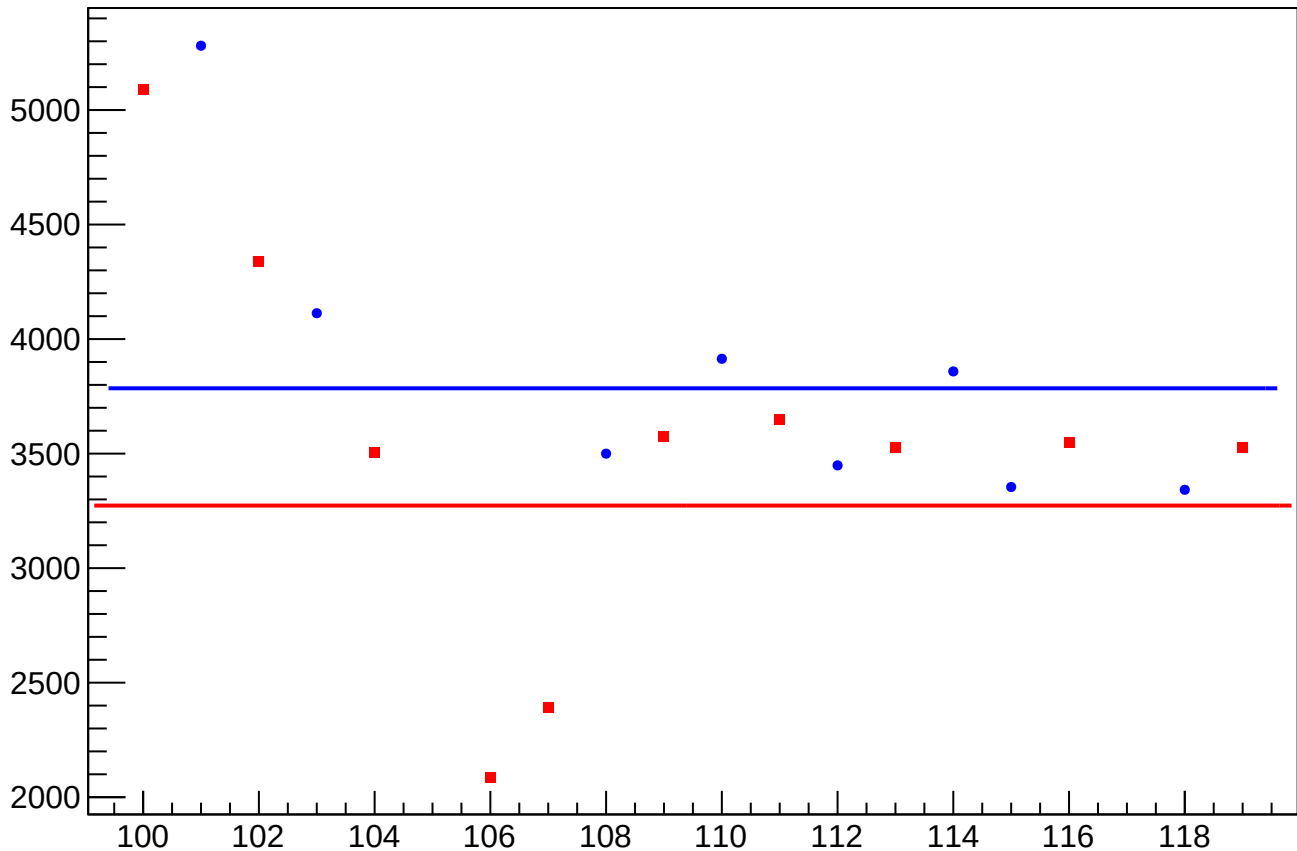
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -629.973+/-1334.155  $\chi^2/\text{NDF}$ : 16.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 3785.140+/-1.490  $\chi^2/\text{NDF}$ : 151963.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3273.153+/-1.191  $\chi^2/\text{NDF}$ : 341083.9/9

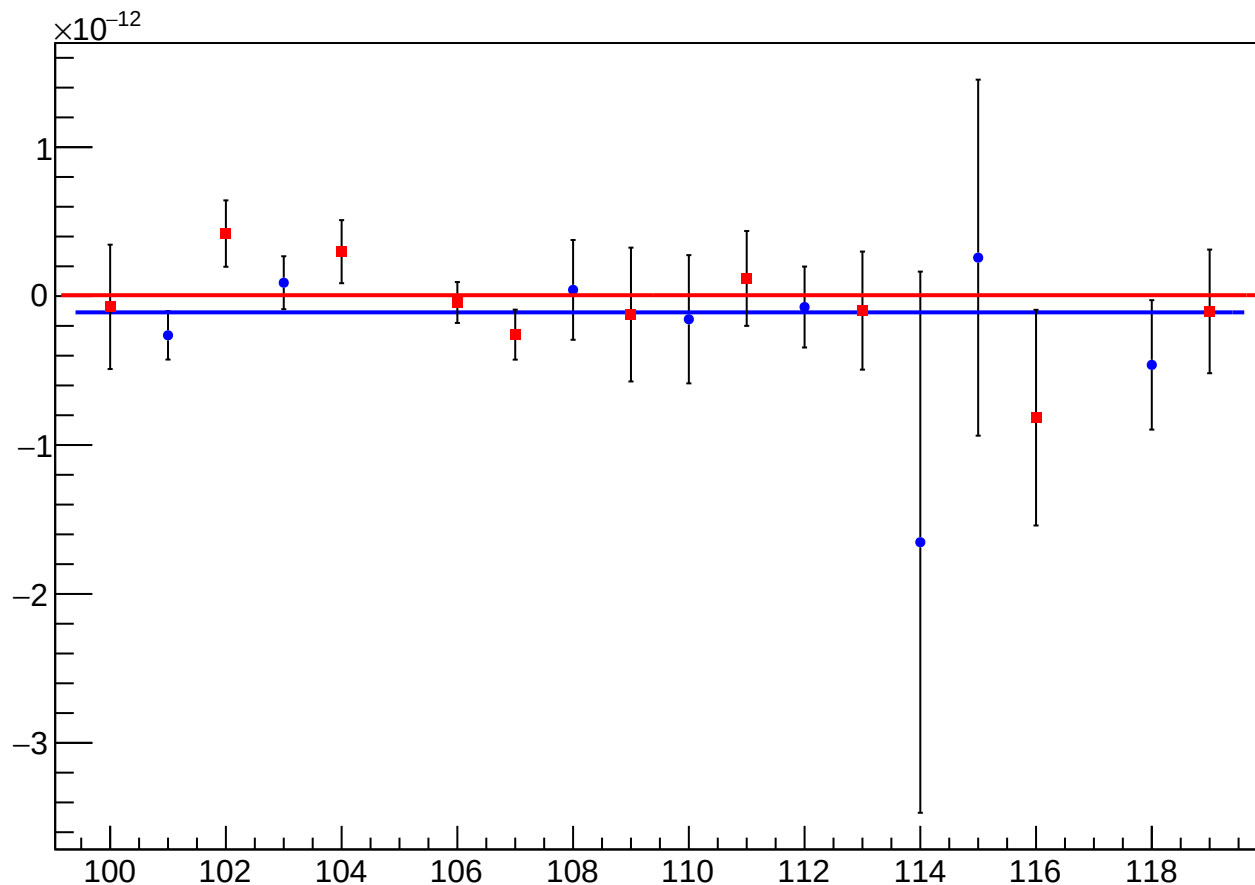
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3472.794+/-0.931  $\chi^2/\text{NDF}$ : 565058.4/17

- 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  $\chi^2/\text{NDF}$ : 3.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.6/9

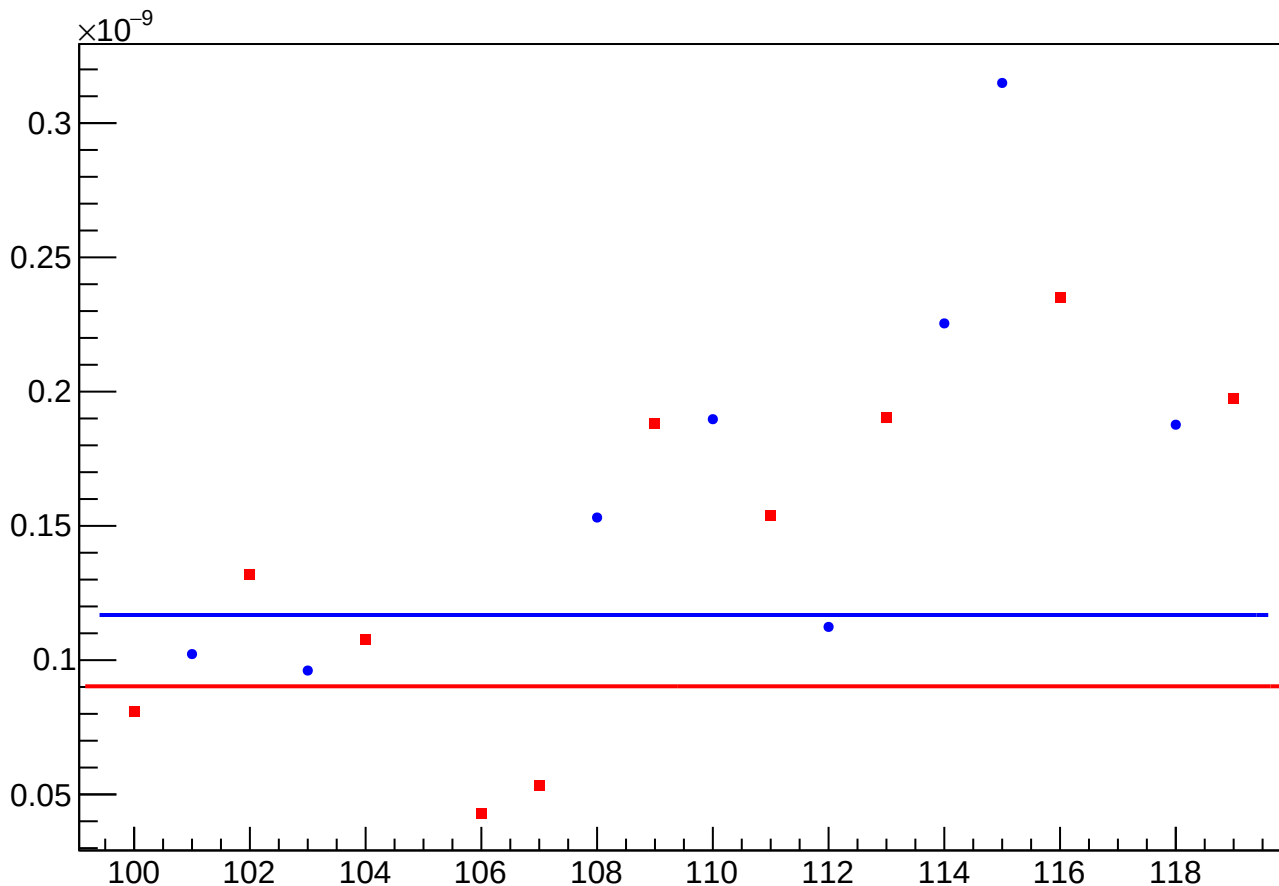
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.3/17

- 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  $\chi^2/\text{NDF}$ : 239719.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 934312.8/9

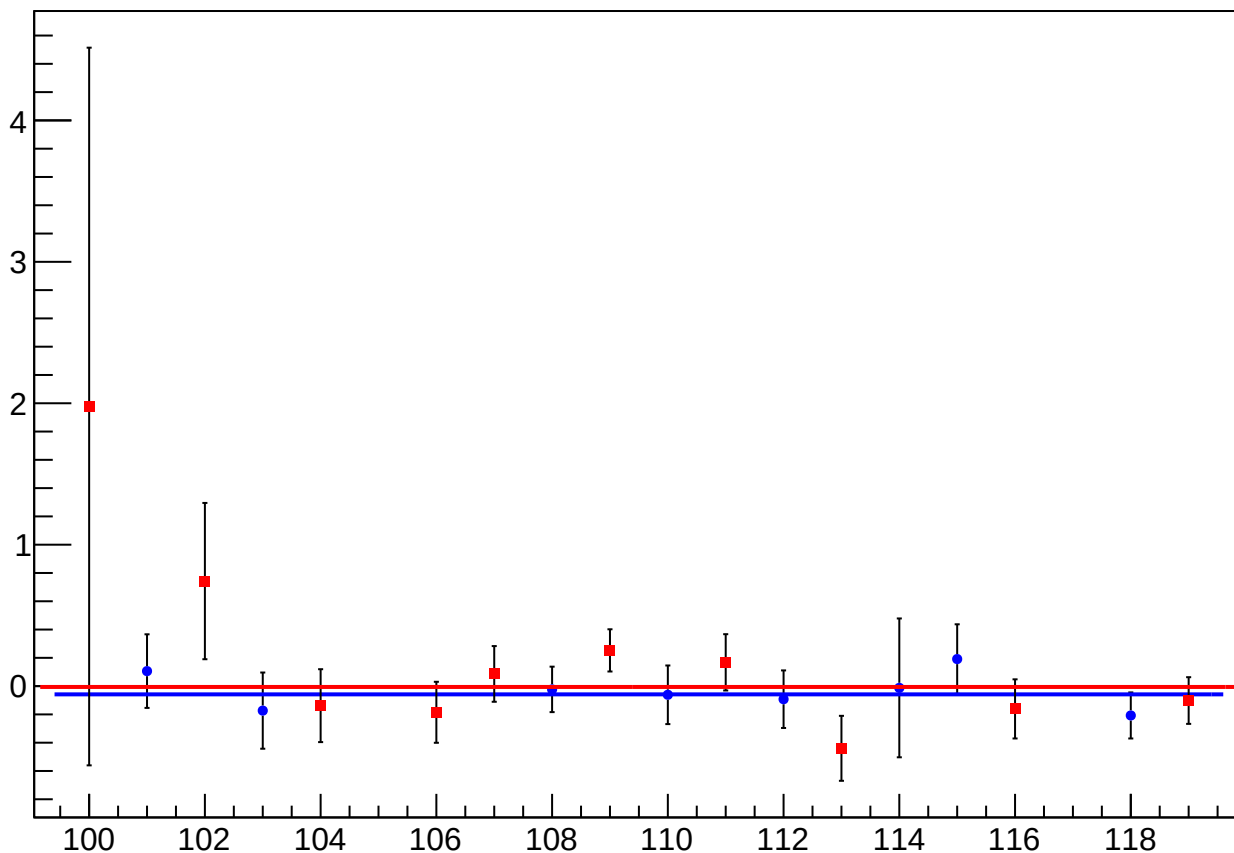
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1263860.8/17

- 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: -0.058 $\pm$ 0.076  $\chi^2$ /NDF: 2.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.006 $\pm$ 0.068  $\chi^2$ /NDF: 11.8/9

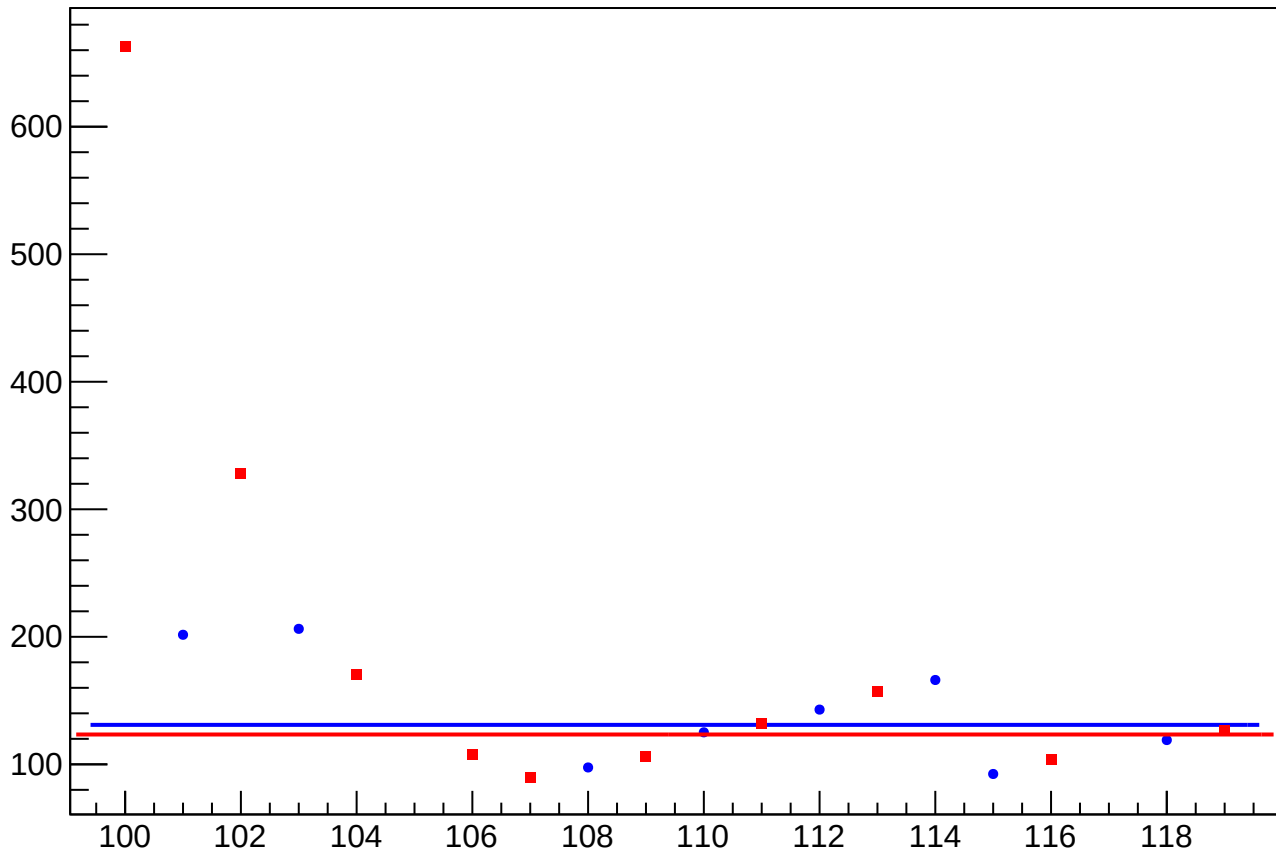
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.029 $\pm$ 0.051  $\chi^2$ /NDF: 14.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 130.952 $\pm$ 0.054  $\chi^2$ /NDF: 468617.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 123.400 $\pm$ 0.048  $\chi^2$ /NDF: 592734.1/9

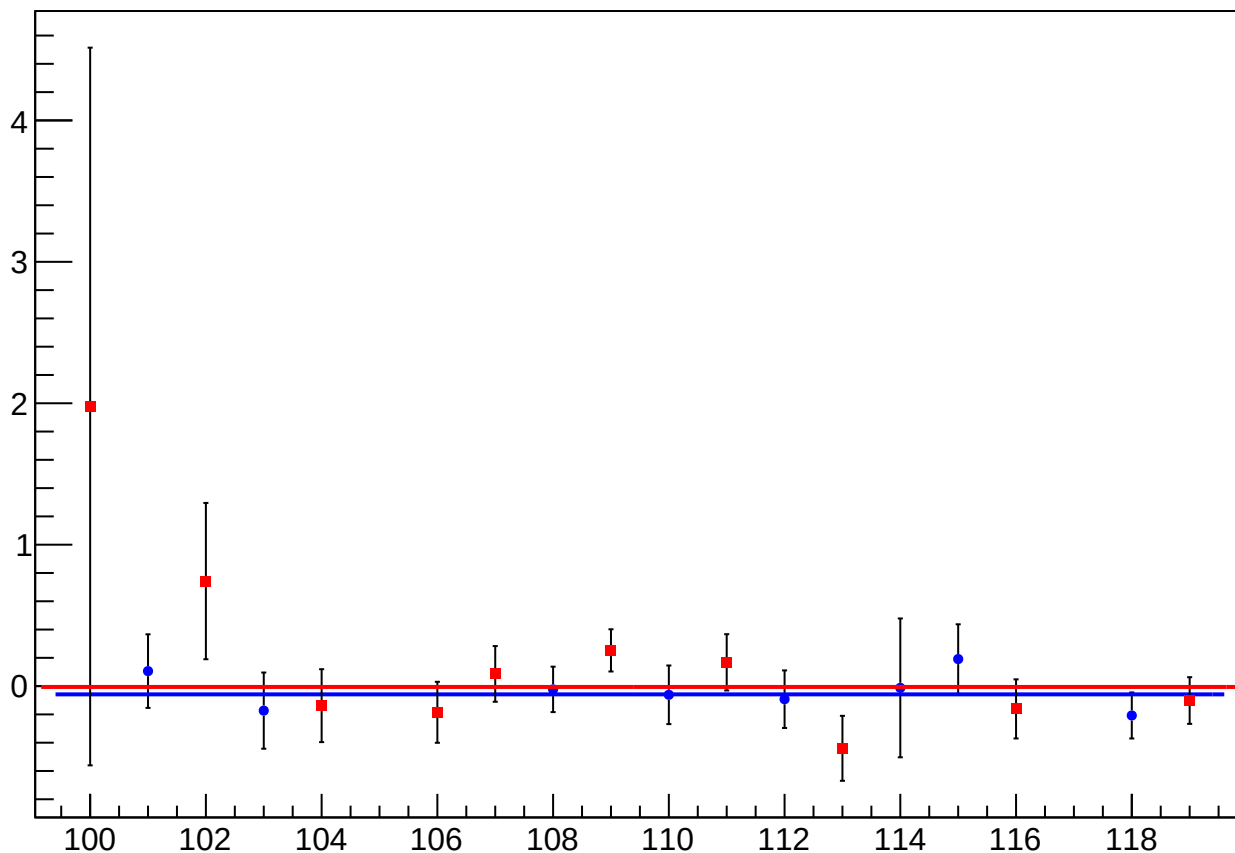
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 126.773 $\pm$ 0.036  $\chi^2$ /NDF: 1072277.2/17

- 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: -0.058 $\pm$ 0.076  $\chi^2$ /NDF: 2.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.006 $\pm$ 0.068  $\chi^2$ /NDF: 11.8/9

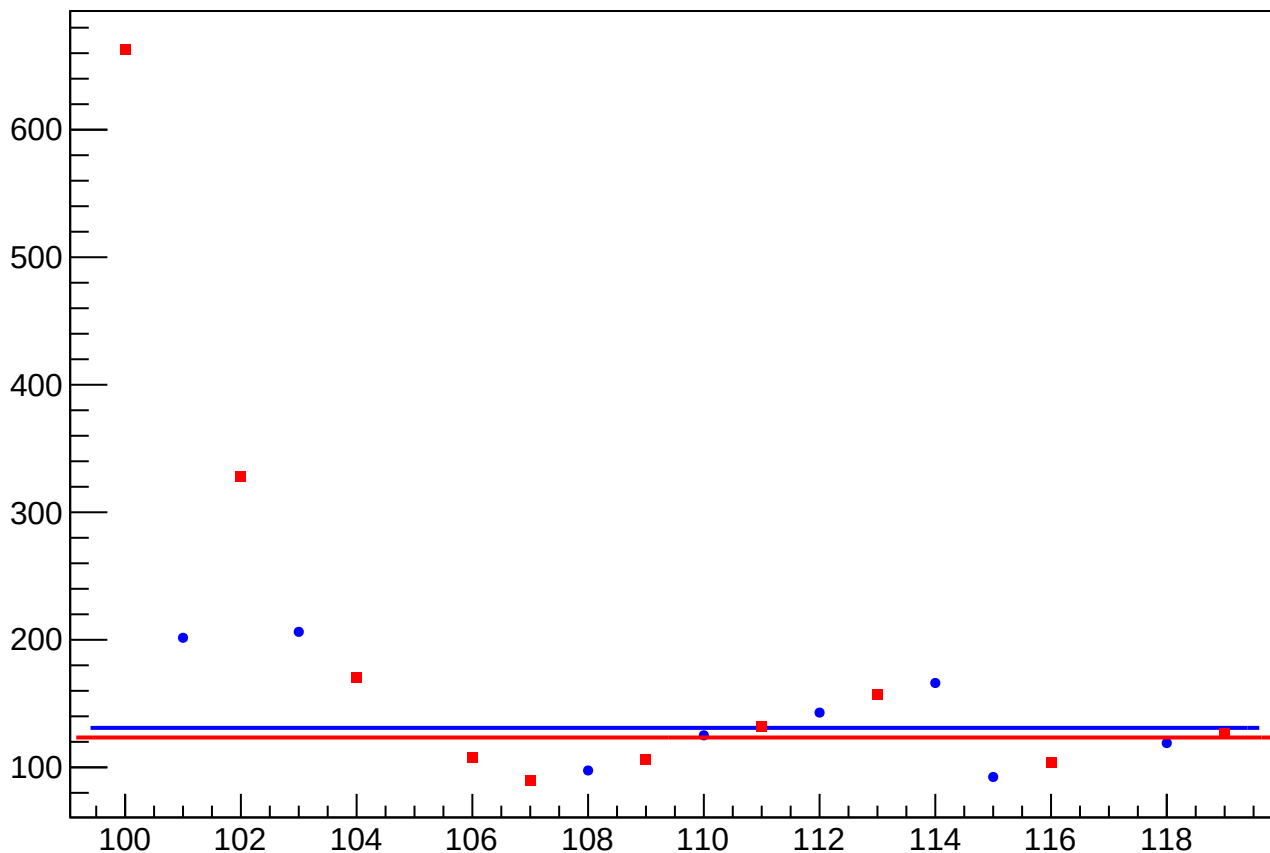
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.029 $\pm$ 0.051  $\chi^2$ /NDF: 14.6/17

- 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: 130.952 $\pm$ 0.054  $\chi^2$ /NDF: 468617.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 123.400 $\pm$ 0.048  $\chi^2$ /NDF: 592734.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

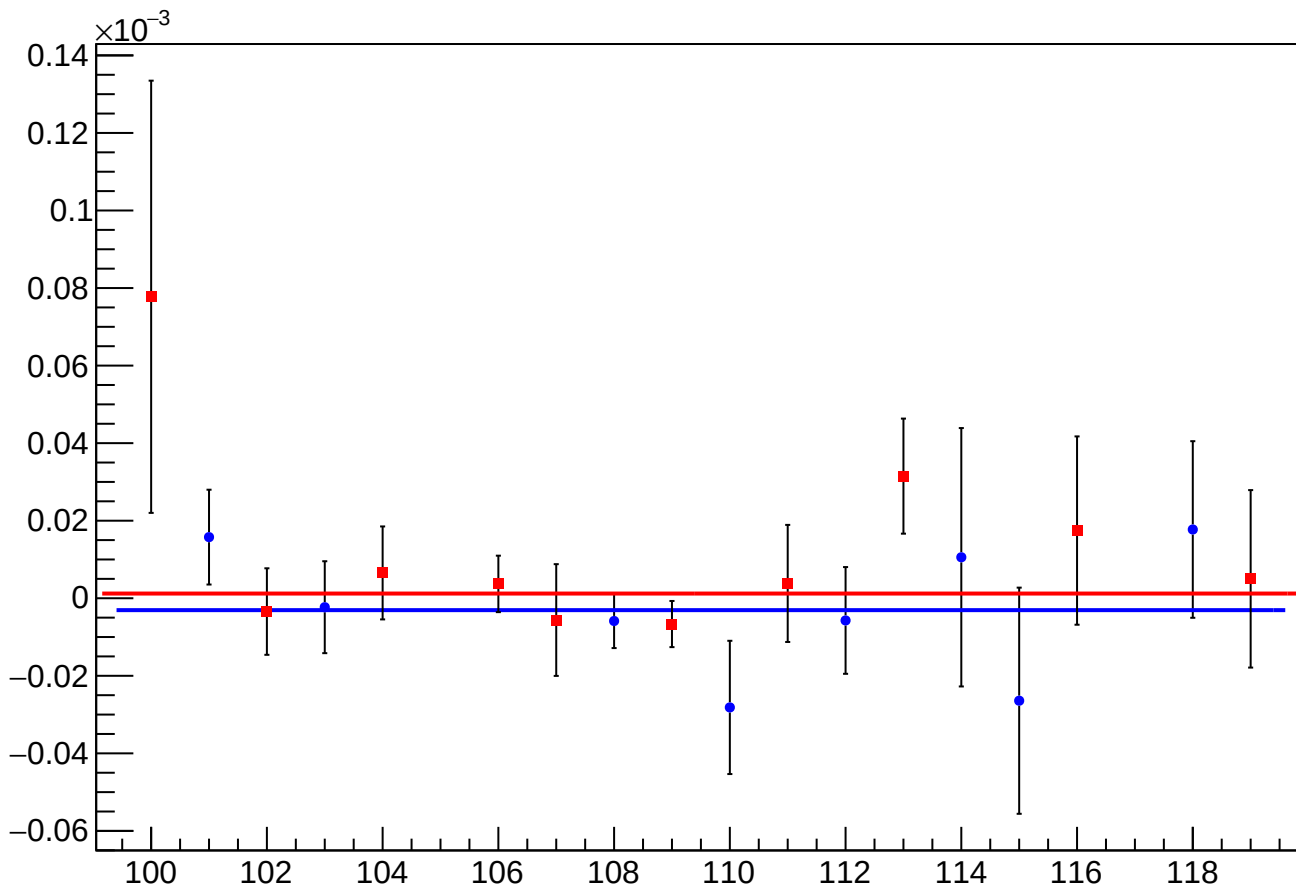
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 126.773 $\pm$ 0.036  $\chi^2$ /NDF: 1072277.2/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 6.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.0/9

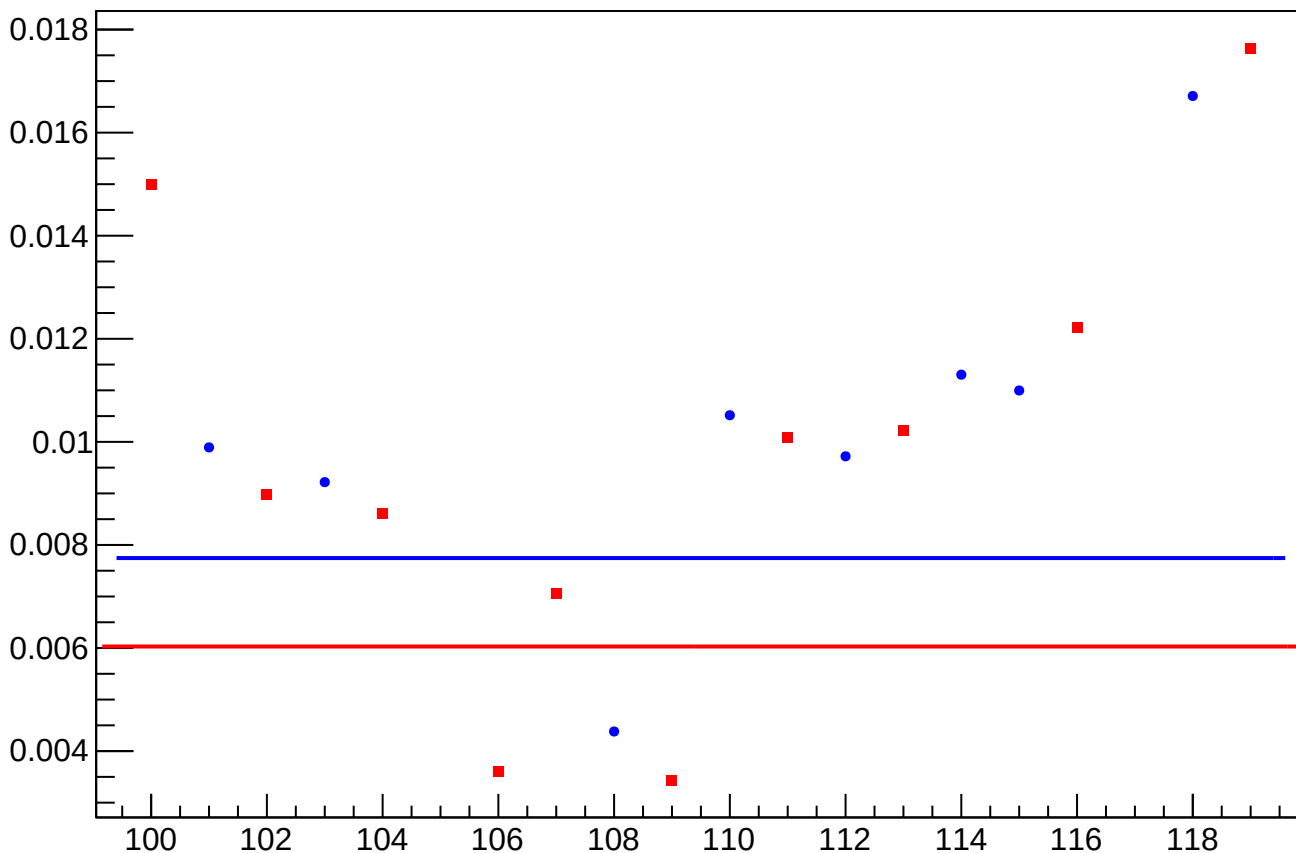
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 1007561.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1845685.6/9

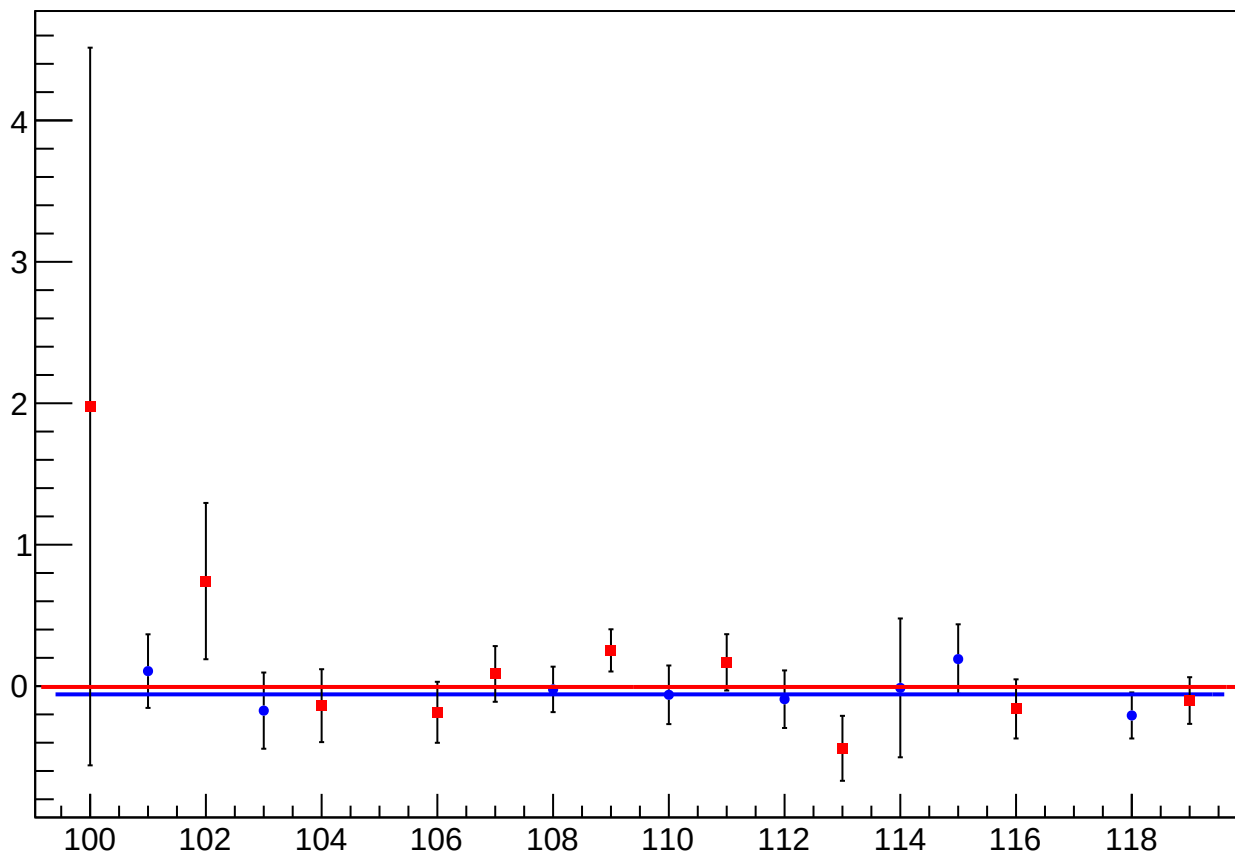
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 3027414.5/17

- 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: -0.058 $\pm$ 0.076  $\chi^2$ /NDF: 2.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.006 $\pm$ 0.068  $\chi^2$ /NDF: 11.8/9

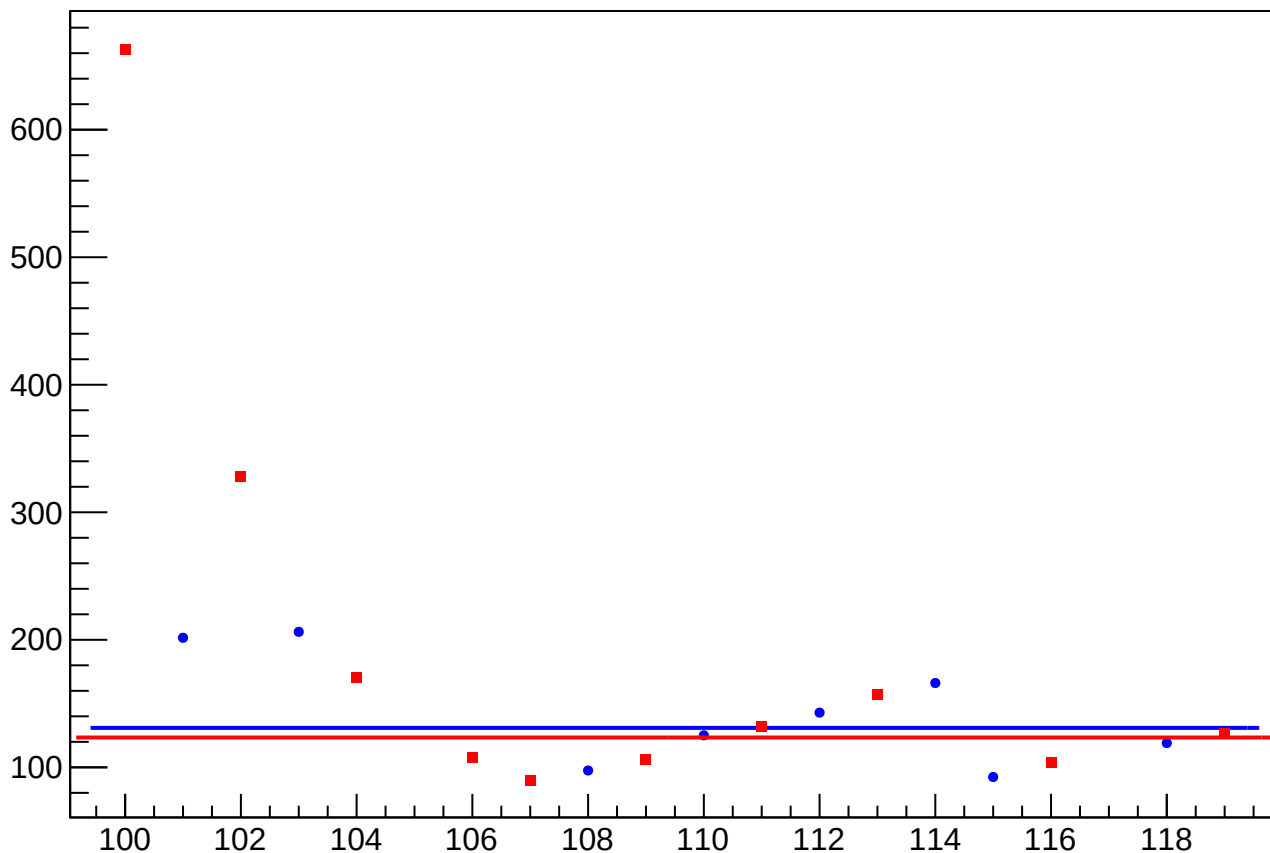
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.029 $\pm$ 0.051  $\chi^2$ /NDF: 14.6/17

- 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: 130.952 $\pm$ 0.054  $\chi^2$ /NDF: 468584.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 123.403 $\pm$ 0.048  $\chi^2$ /NDF: 592687.2/9

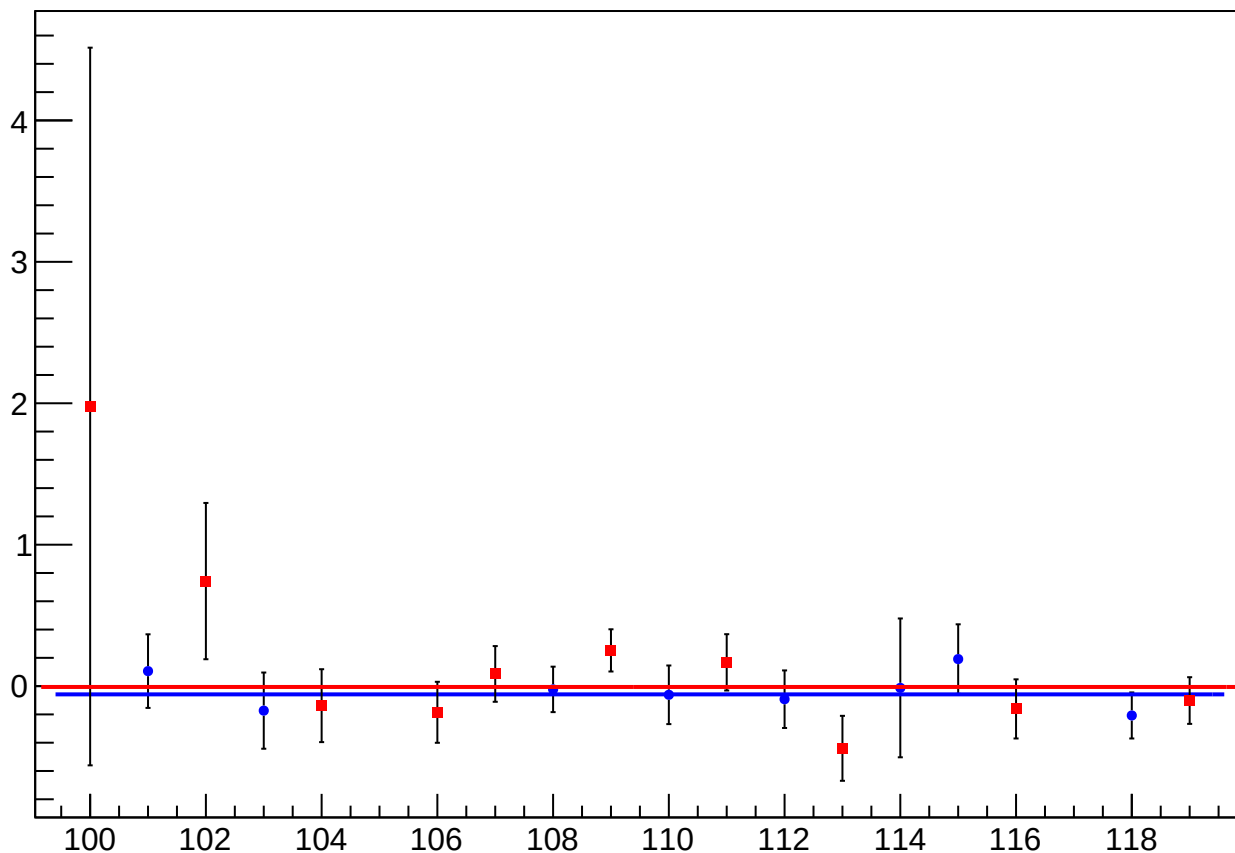
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 126.775 $\pm$ 0.036  $\chi^2$ /NDF: 1072192.7/17

- 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: -0.058+/-0.076  $\chi^2/\text{NDF}$ : 2.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.006+/-0.068  $\chi^2/\text{NDF}$ : 11.8/9

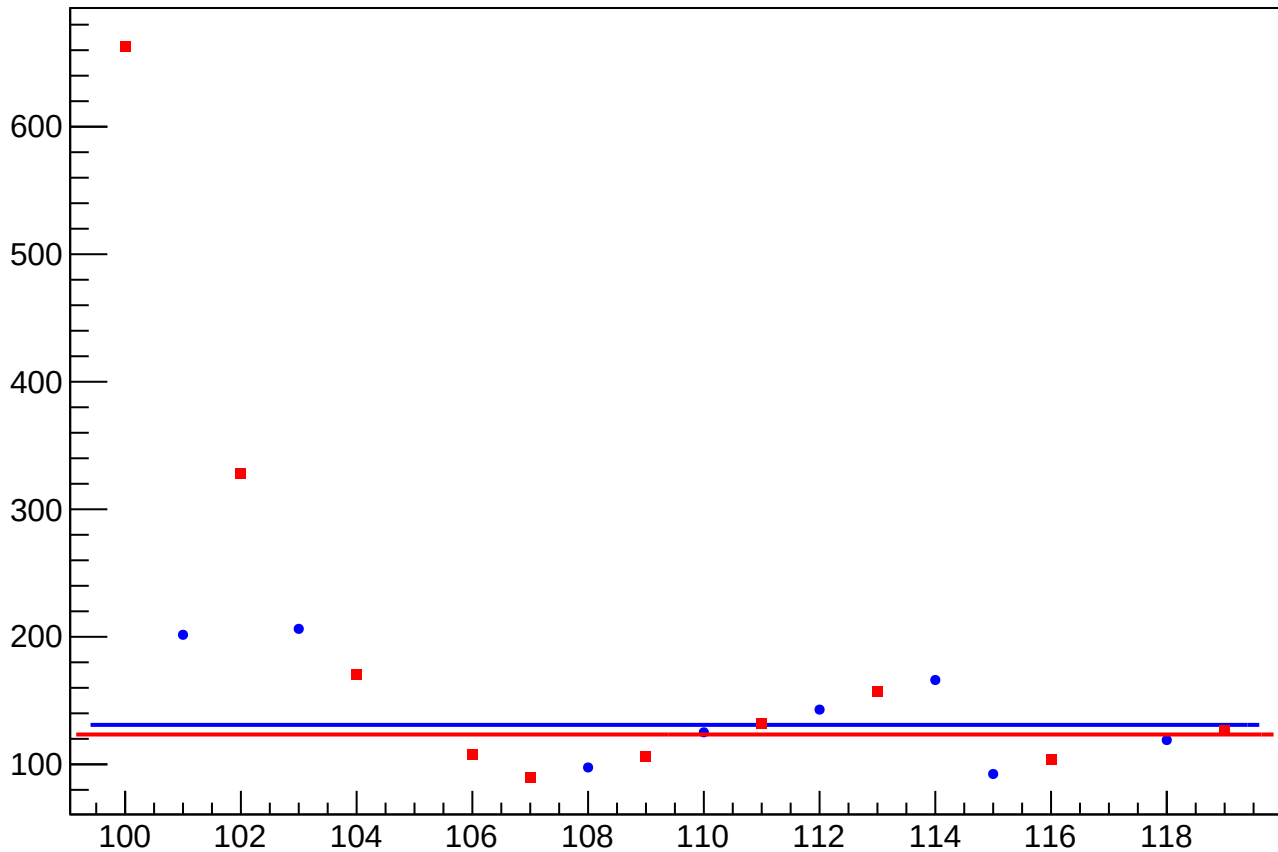
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.029+/-0.051  $\chi^2/\text{NDF}$ : 14.6/17

- sign 0.000+/-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: 130.952+/-0.054  $\chi^2/\text{NDF}$ : 468584.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 123.403+/-0.048  $\chi^2/\text{NDF}$ : 592687.2/9

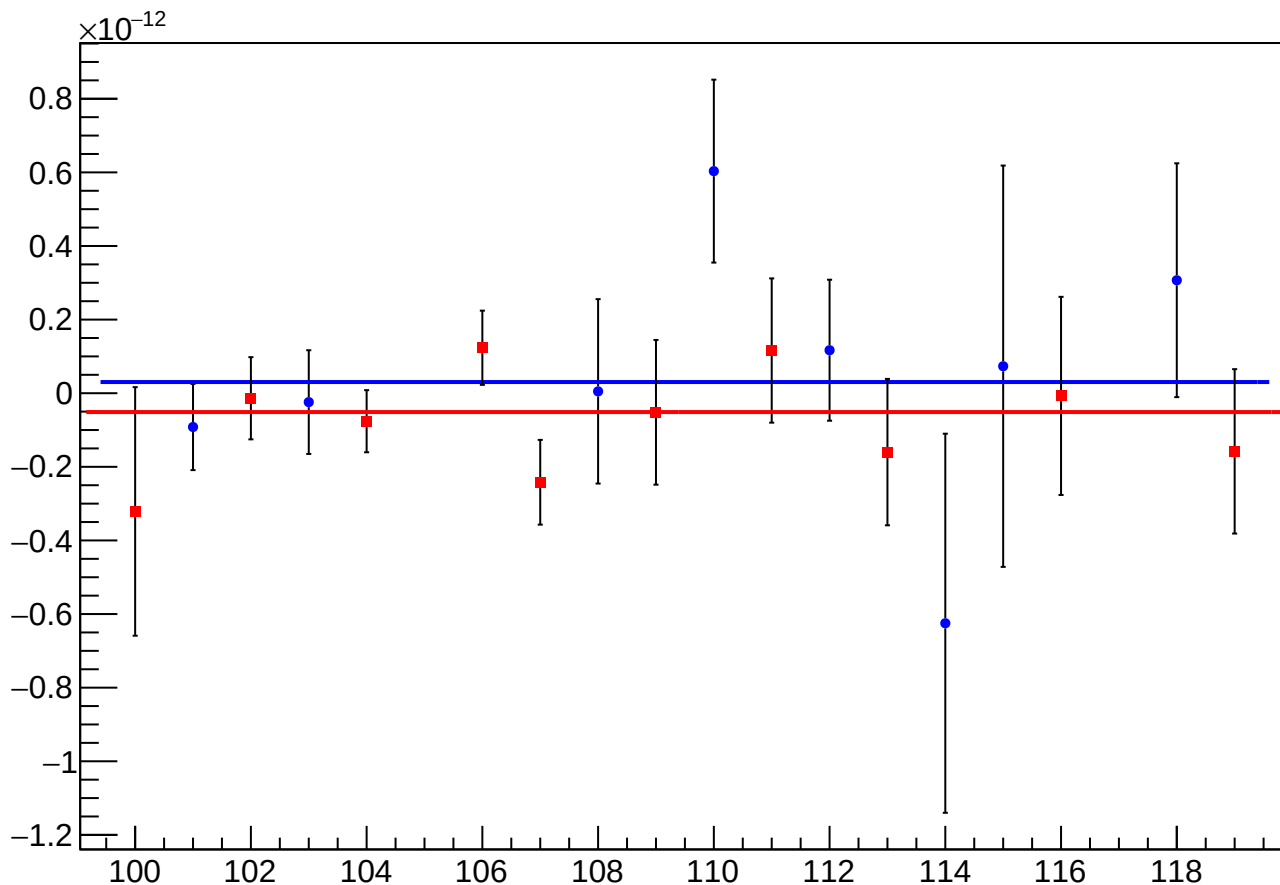
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 126.775+/-0.036  $\chi^2/\text{NDF}$ : 1072192.7/17

- 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  $\chi^2/\text{NDF}$ : 9.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.9/9

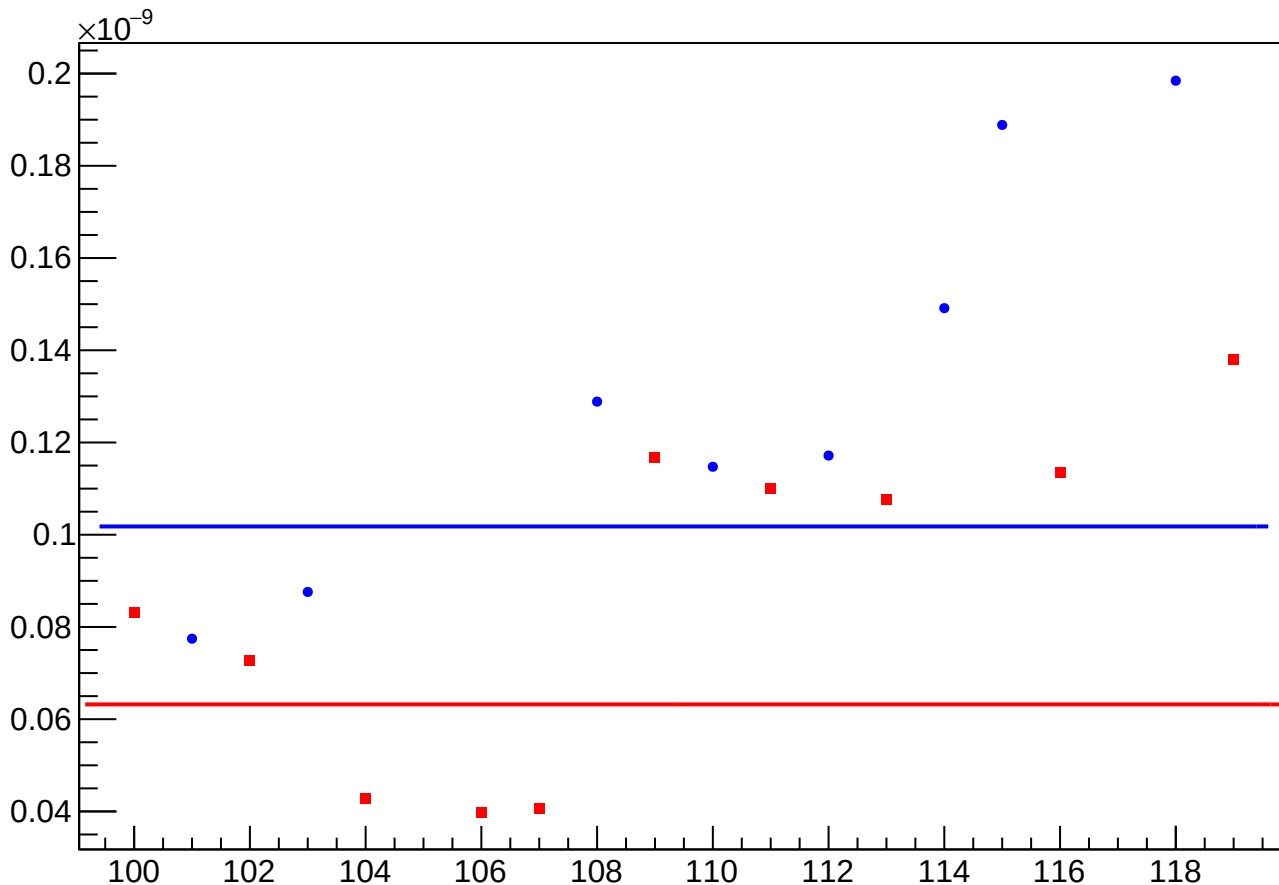
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.0/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 401403.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 979192.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

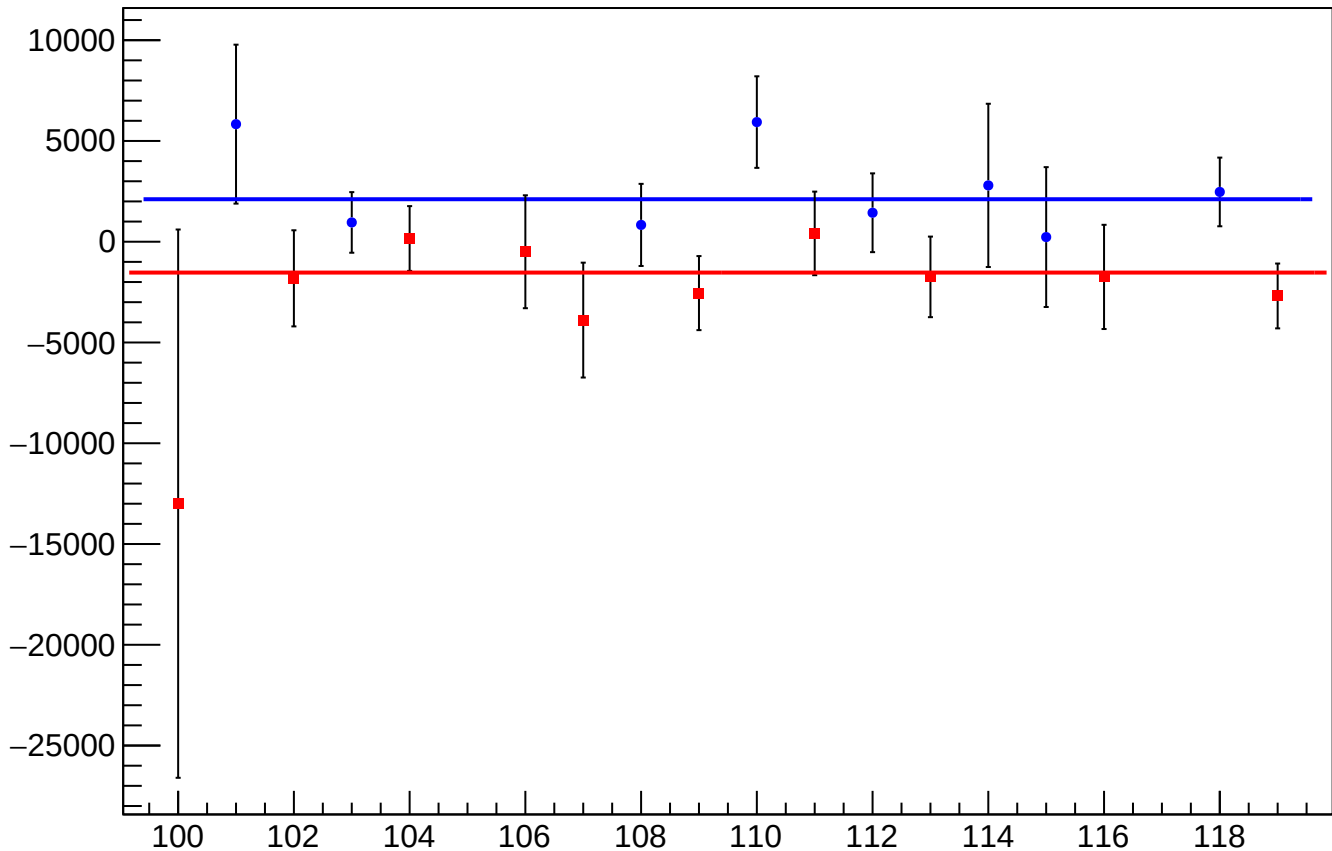
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1809096.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2108.566+/-768.910  $\chi^2/\text{NDF}$ : 5.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1530.967+/-684.559  $\chi^2/\text{NDF}$ : 4.4/9

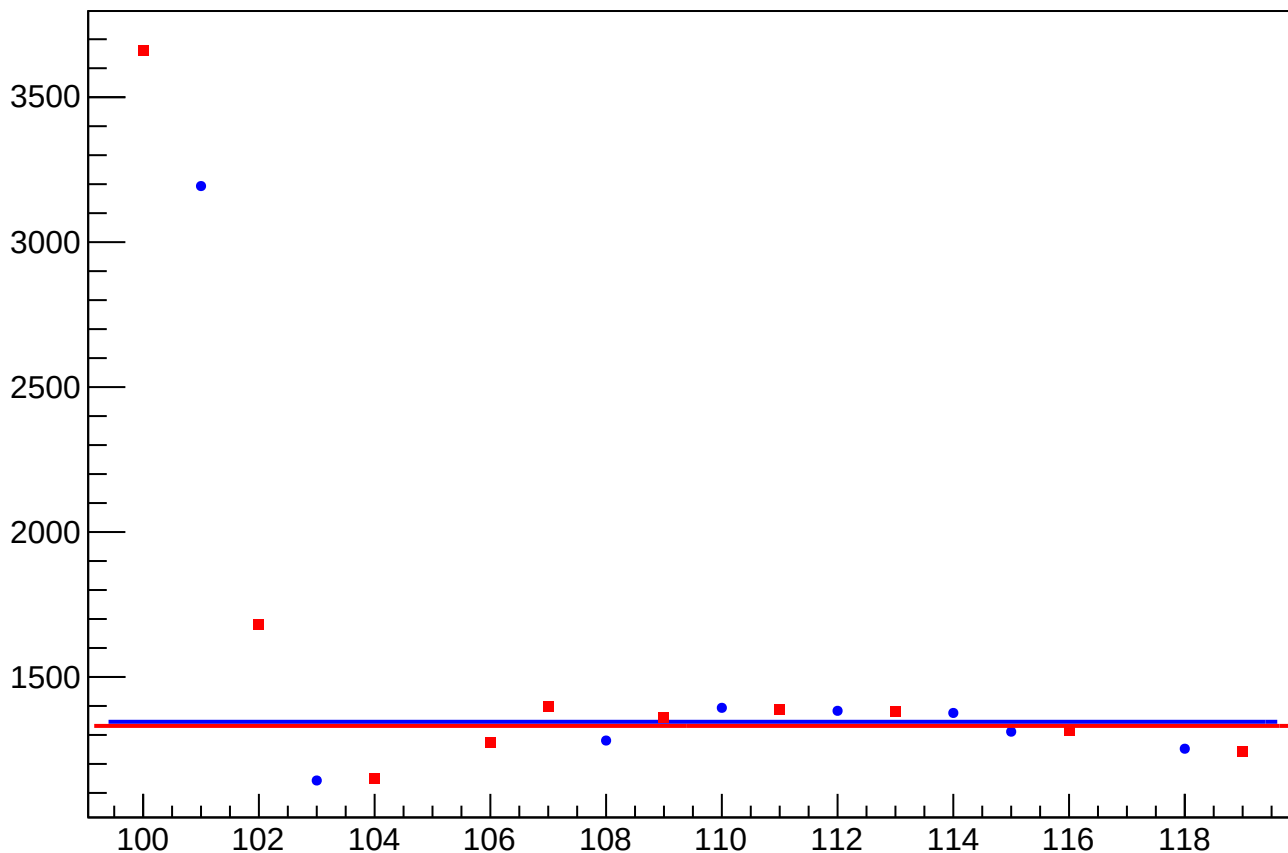
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 78.292+/-511.288  $\chi^2/\text{NDF}$ : 22.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 1345.396+/-0.544  $\chi^2/\text{NDF}$ : 485482.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1331.184+/-0.482  $\chi^2/\text{NDF}$ : 138278.4/9

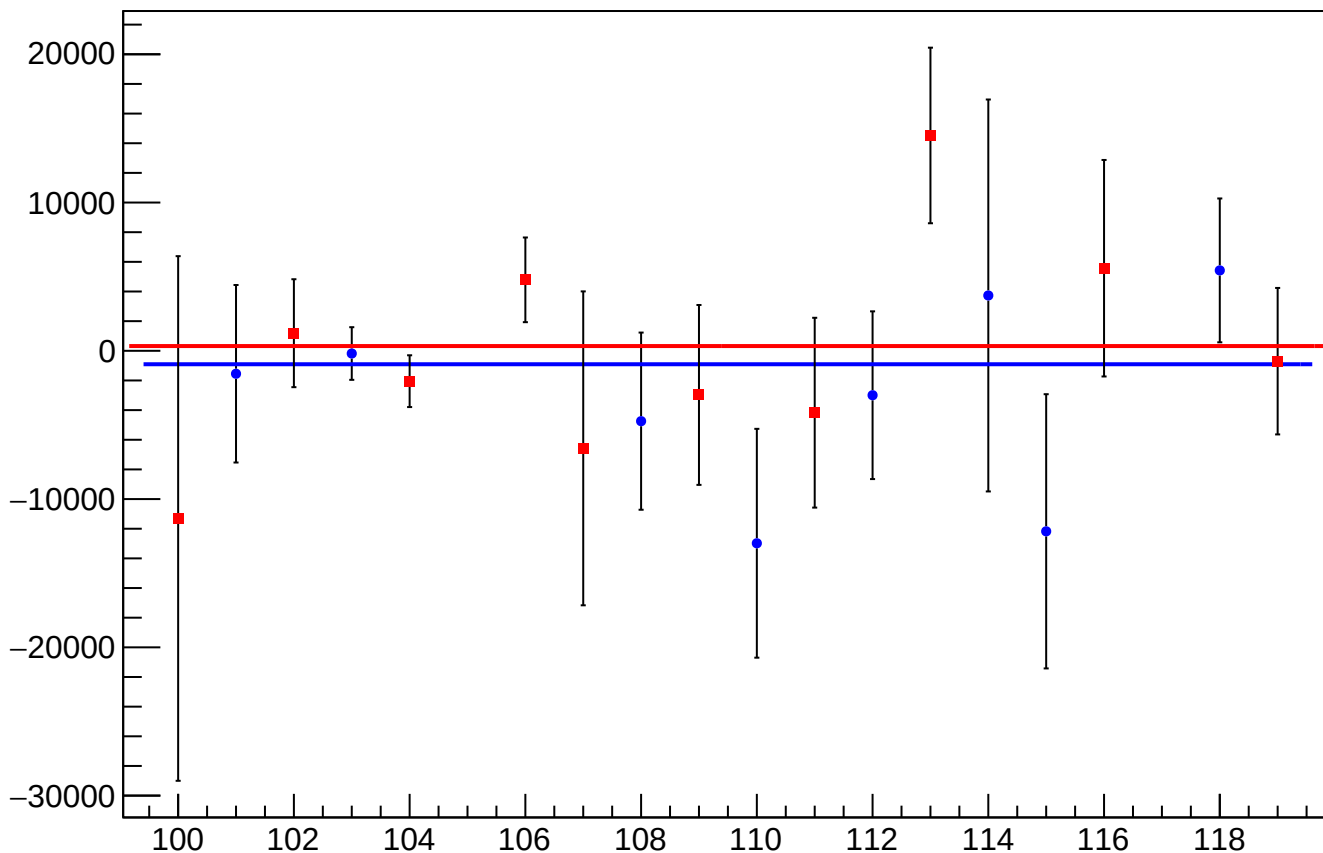
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1337.432+/-0.360  $\chi^2/\text{NDF}$ : 624143.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_reg\_correction\_mean vs Slug



Right In: -906.361+/-1441.625  $\chi^2/\text{NDF}$ : 6.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 320.440+/-1214.441  $\chi^2/\text{NDF}$ : 12.3/9

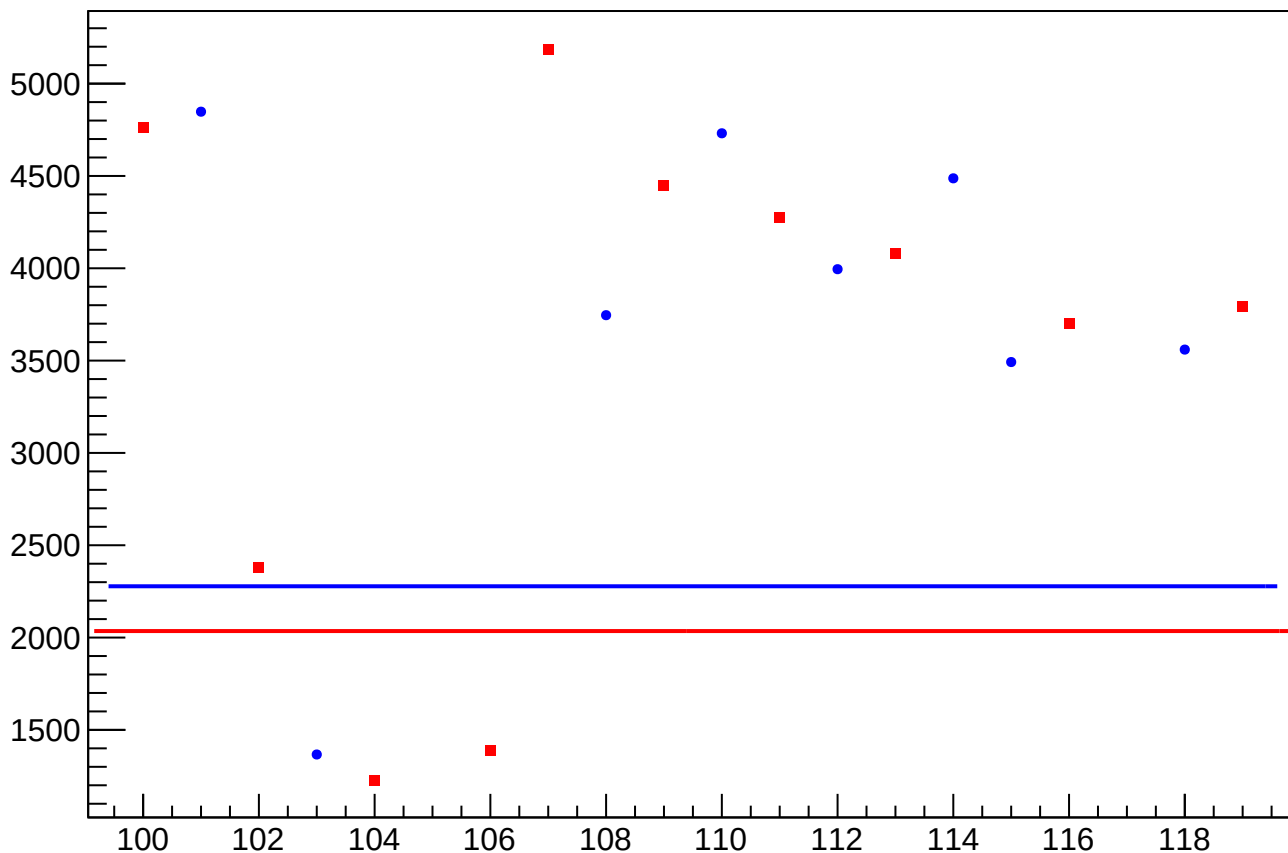
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -188.790+/-928.800  $\chi^2/\text{NDF}$ : 19.2/17

- 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: 2277.788+/-1.019  $\chi^2/\text{NDF}$ : 1632687.6/7

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

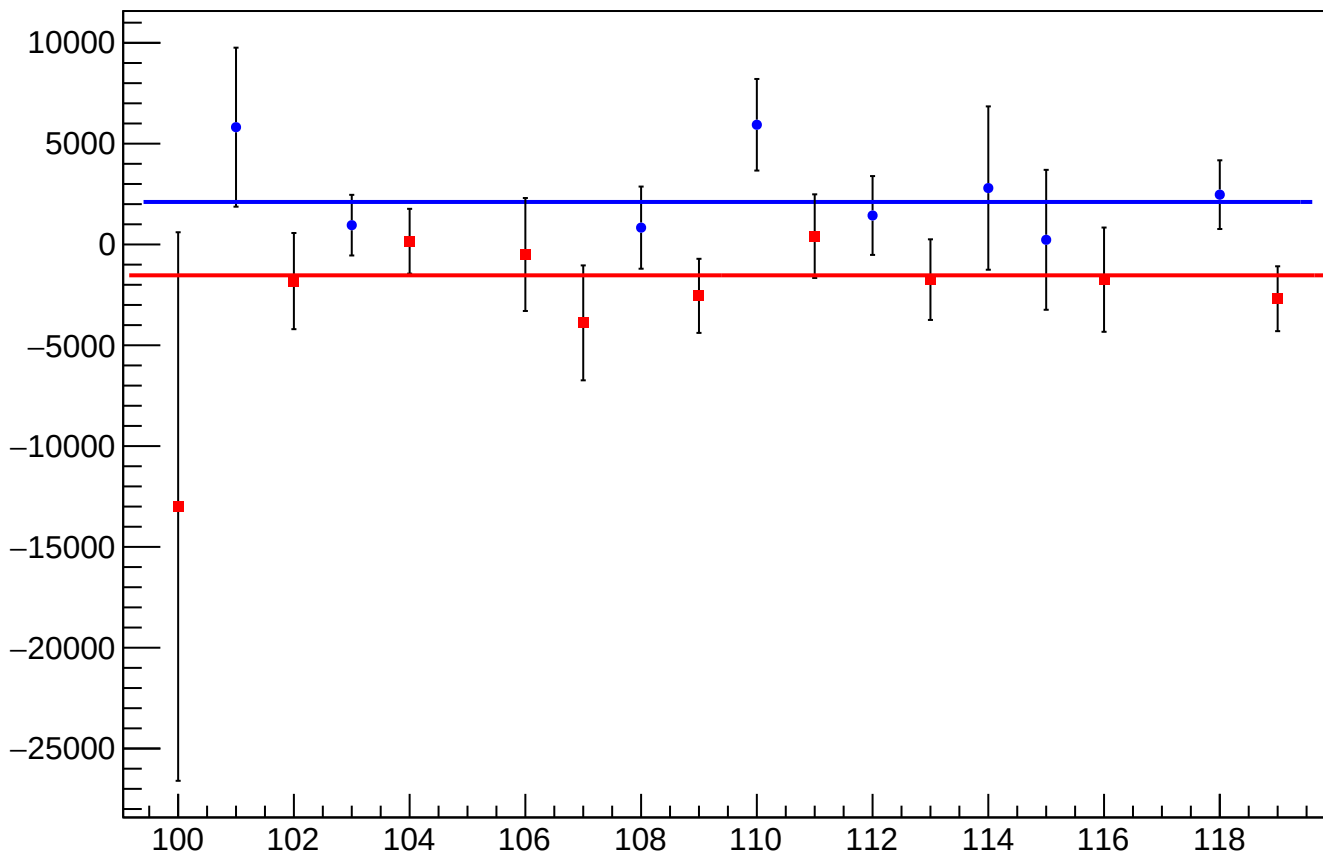
Right Out: 2035.248+/-0.859  $\chi^2/\text{NDF}$ : 1933625.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2135.923+/-0.657  $\chi^2/\text{NDF}$ : 3599425.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2108.049 $\pm$ 768.910  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1530.623 $\pm$ 684.559  $\chi^2$ /NDF: 4.4/9

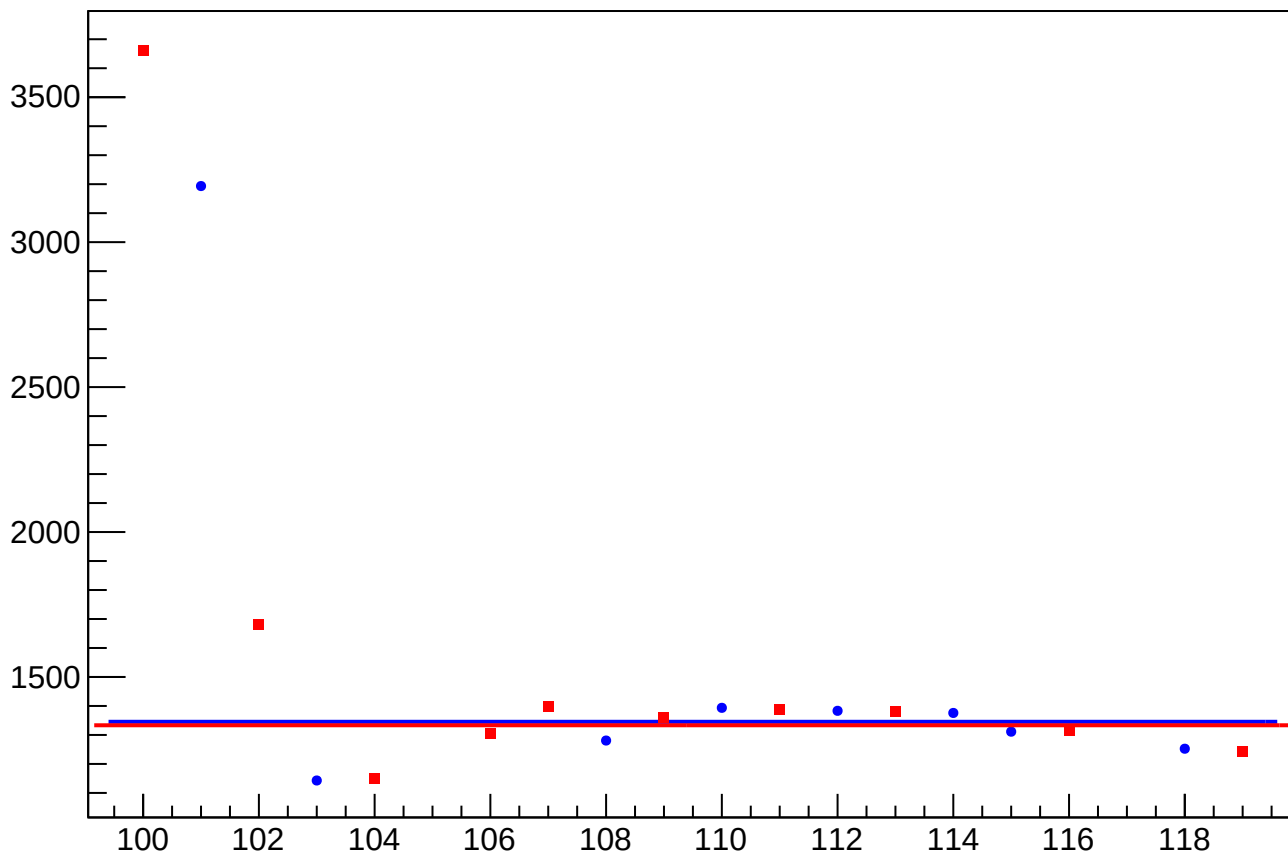
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 78.255 $\pm$ 511.288  $\chi^2$ /NDF: 22.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 1345.396+/-0.544  $\chi^2/\text{NDF}$ : 485483.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1333.385+/-0.482  $\chi^2/\text{NDF}$ : 137490.2/9

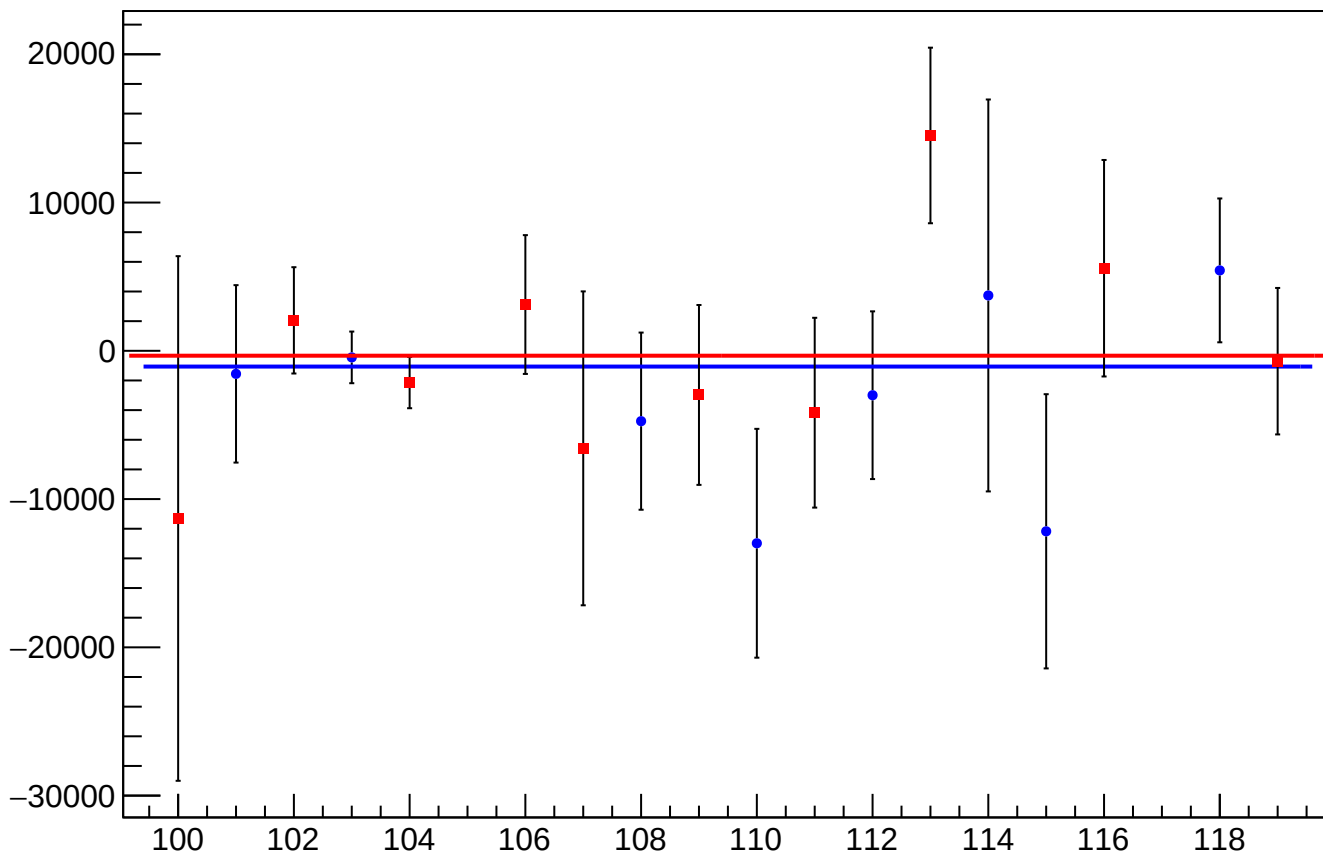
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1338.674+/-0.361  $\chi^2/\text{NDF}$ : 623247.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_cor\_correction\_mean vs Slug



Right In: -1062.556+/-1423.325  $\chi^2/\text{NDF}$ : 6.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -329.990+/-1280.809  $\chi^2/\text{NDF}$ : 10.3/9

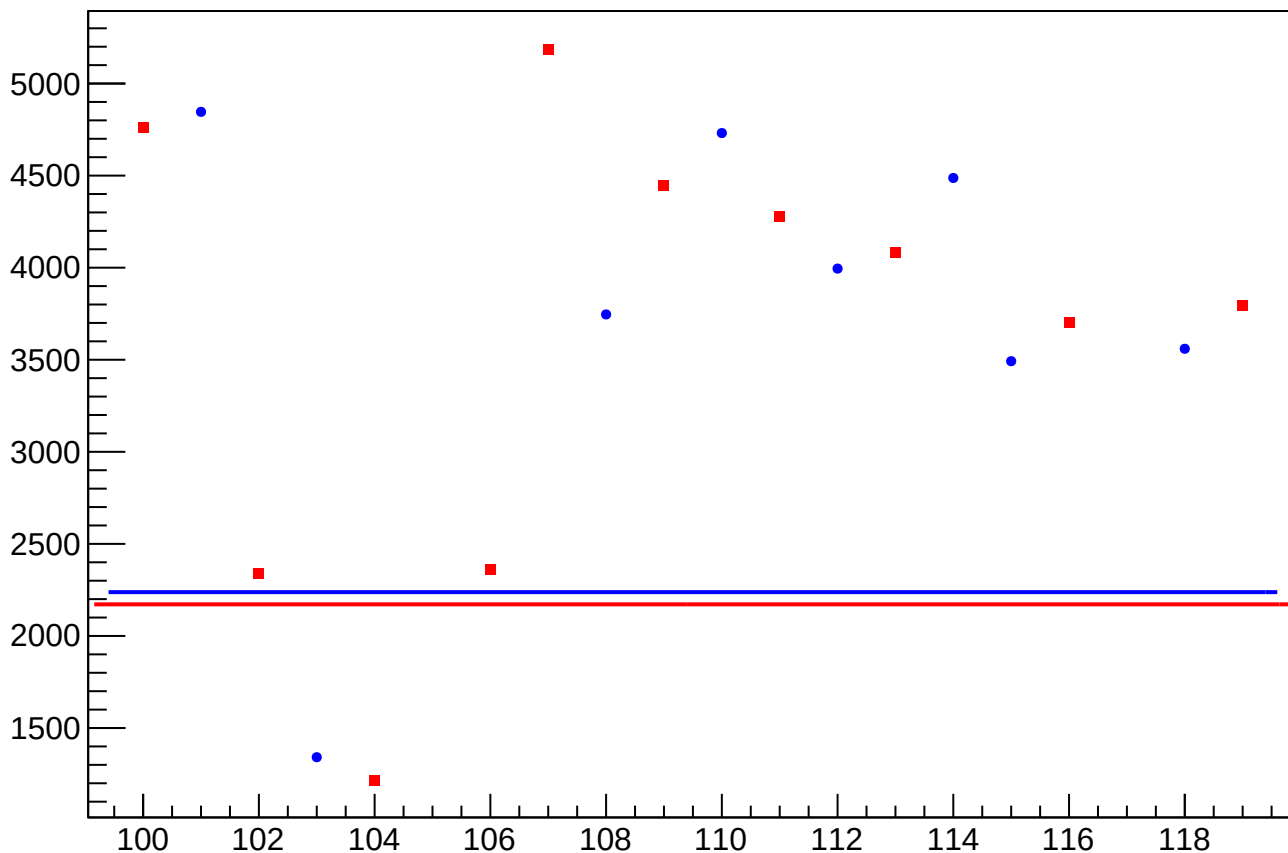
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -657.771+/-952.079  $\chi^2/\text{NDF}$ : 16.8/17

- 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: 2237.972+/-1.006  $\chi^2/\text{NDF}$ : 1682280.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2171.656+/-0.906  $\chi^2/\text{NDF}$ : 1834656.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

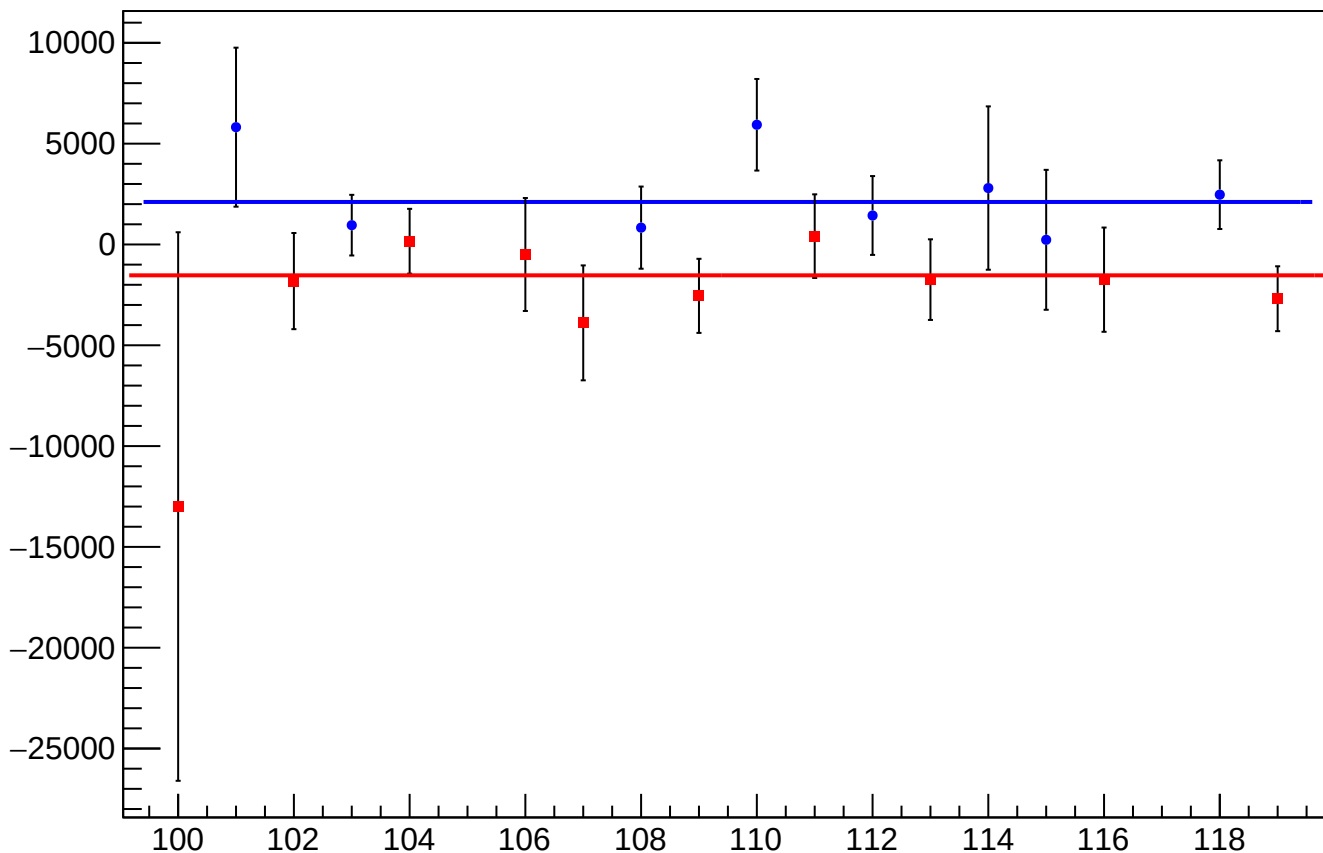
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2201.328+/-0.673  $\chi^2/\text{NDF}$ : 3519336.1/17

- 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: 2108.049 $\pm$ 768.910  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1530.623 $\pm$ 684.559  $\chi^2$ /NDF: 4.4/9

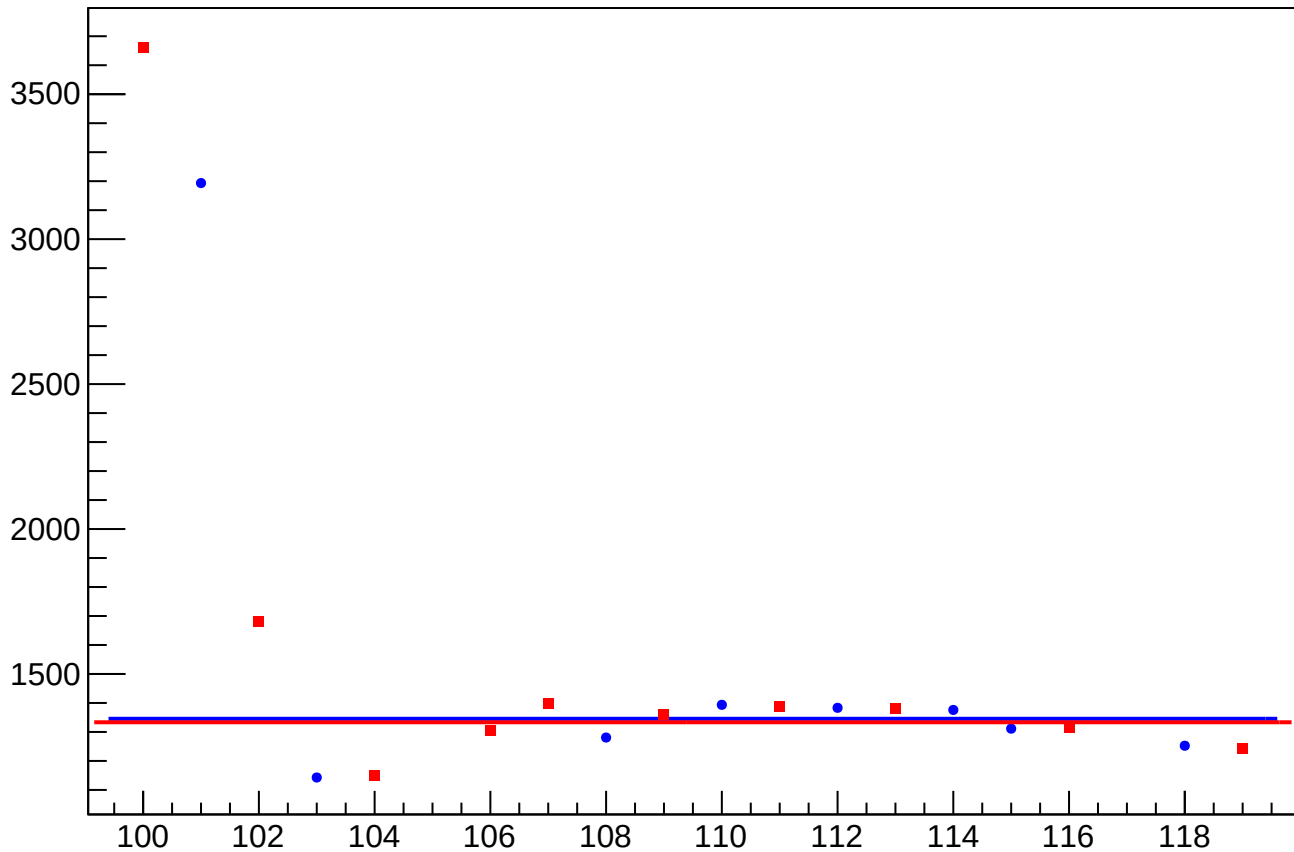
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 78.255 $\pm$ 511.288  $\chi^2$ /NDF: 22.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 1345.396 $\pm$ 0.544  $\chi^2$ /NDF: 485483.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1333.385 $\pm$ 0.482  $\chi^2$ /NDF: 137490.2/9

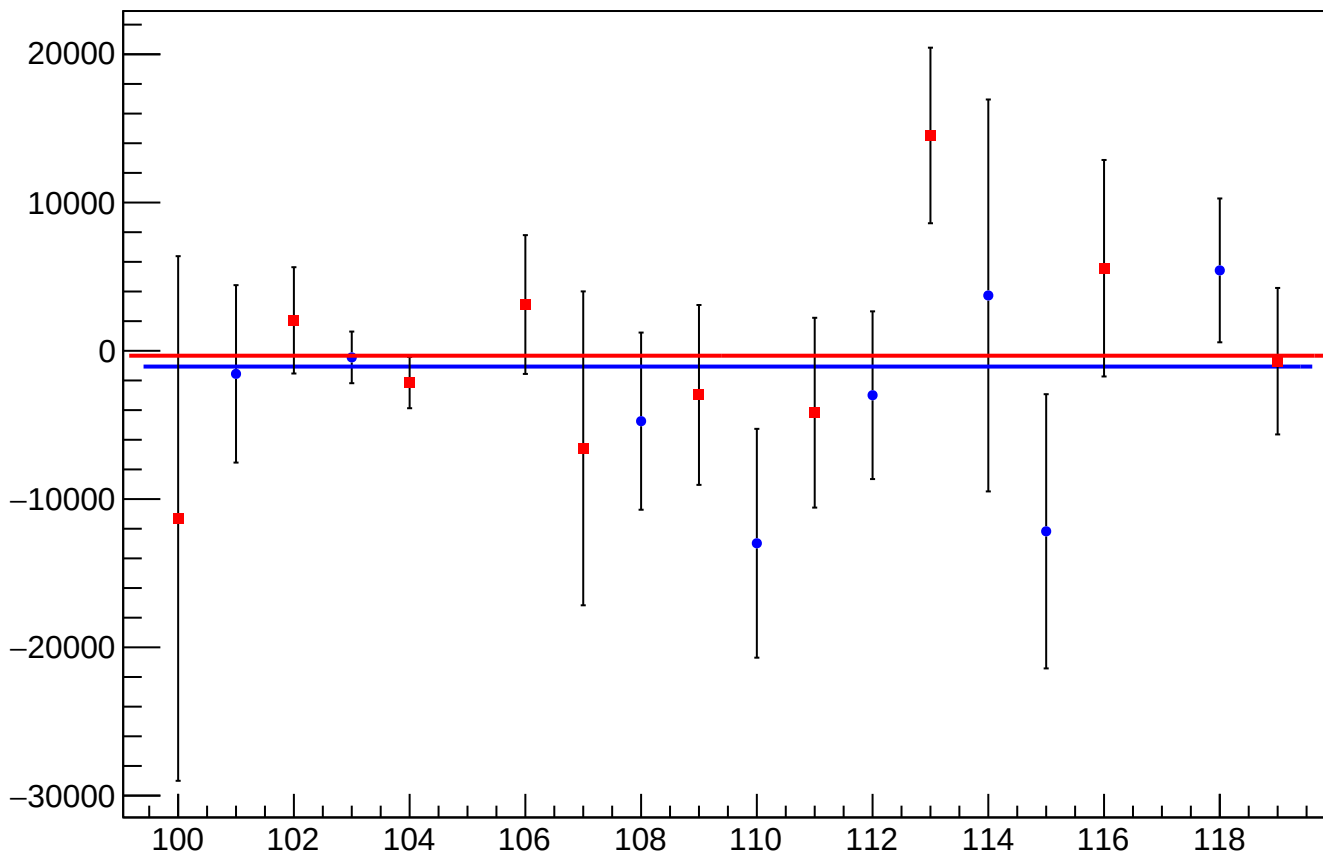
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1338.674 $\pm$ 0.361  $\chi^2$ /NDF: 623247.1/17

- 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: -1062.556+/-1423.325  $\chi^2/\text{NDF}$ : 6.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -329.990+/-1280.809  $\chi^2/\text{NDF}$ : 10.3/9

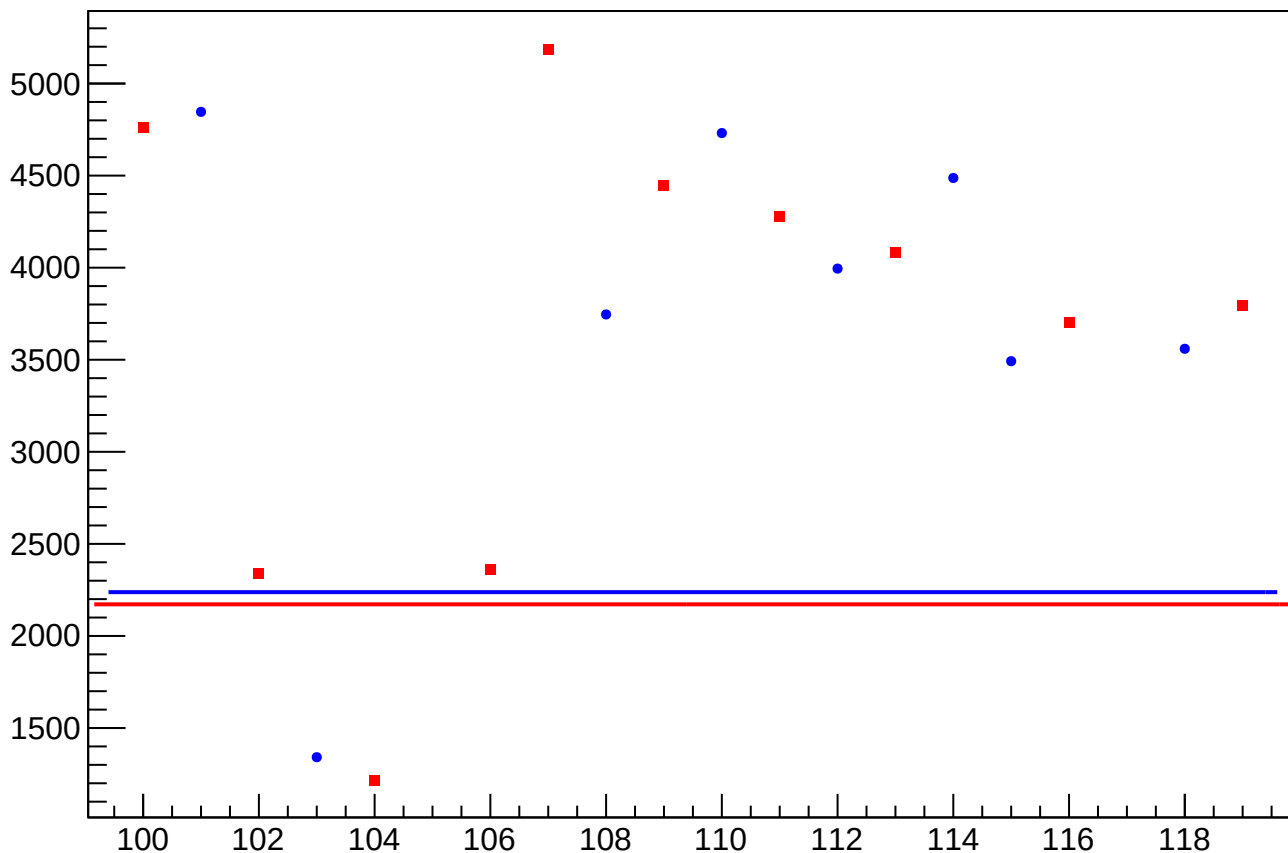
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -657.771+/-952.079  $\chi^2/\text{NDF}$ : 16.8/17

- 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: 2237.972+/-1.006  $\chi^2/\text{NDF}$ : 1682280.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2171.656+/-0.906  $\chi^2/\text{NDF}$ : 1834656.4/9

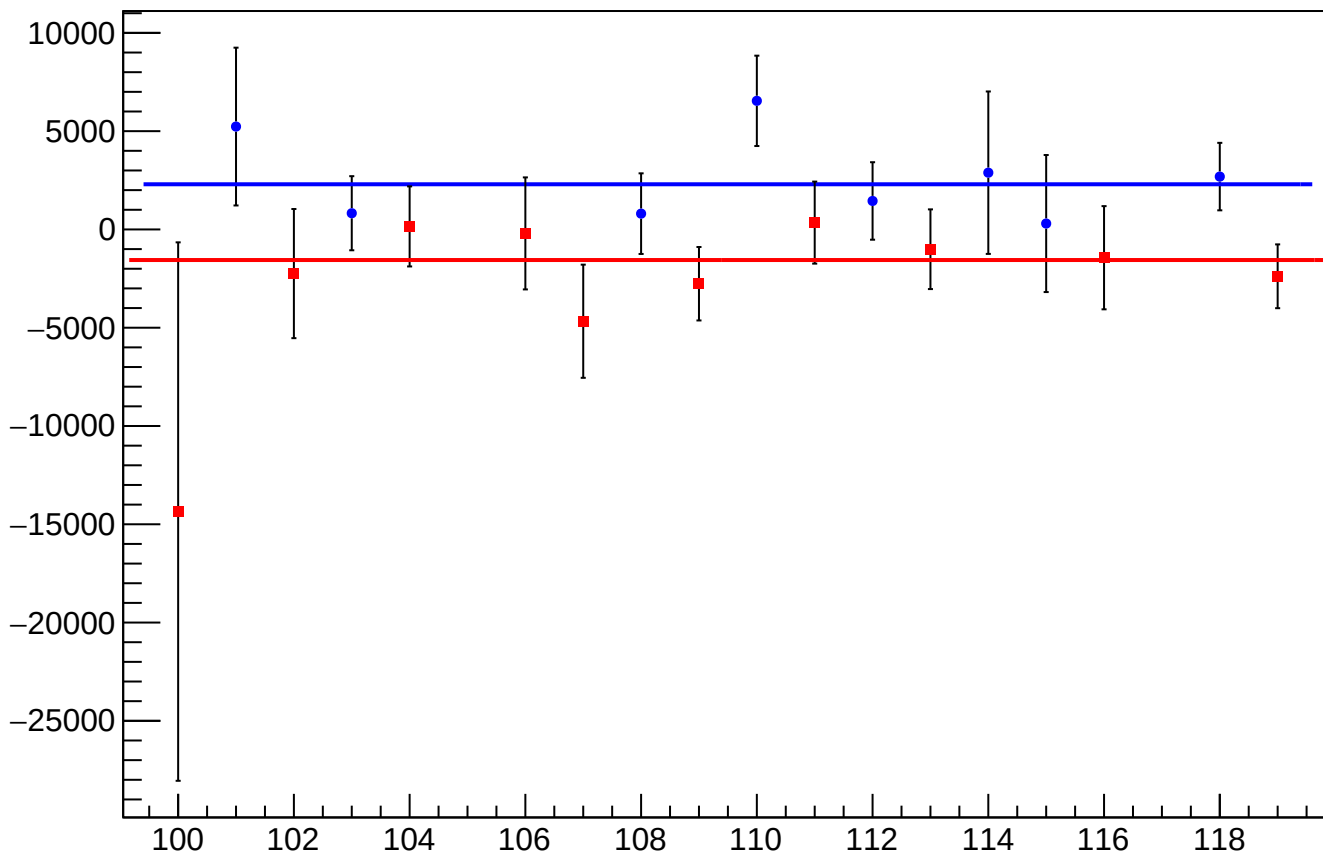
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2201.328+/-0.673  $\chi^2/\text{NDF}$ : 3519336.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2297.954+/-814.269  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1556.378+/-731.823  $\chi^2/\text{NDF}$ : 4.6/9

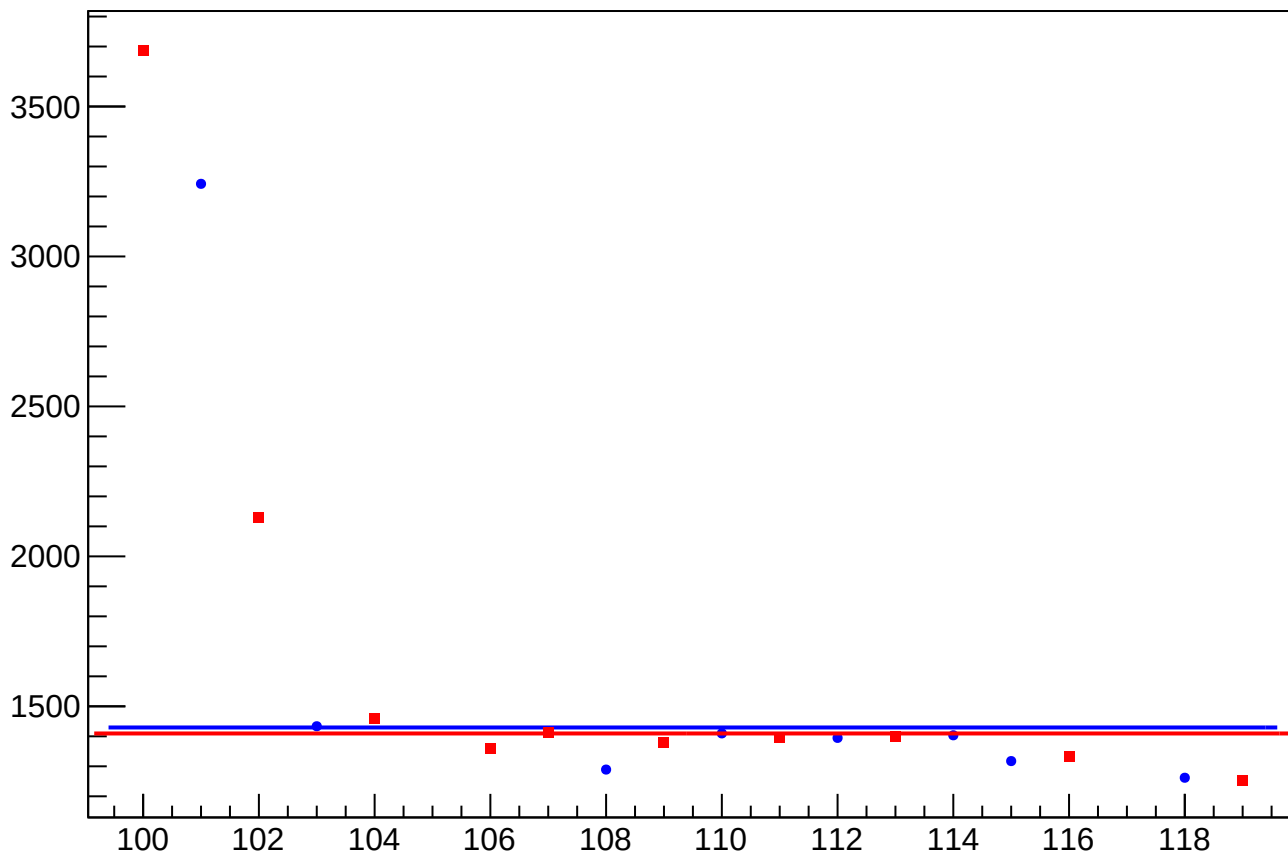
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 165.837+/-544.298  $\chi^2/\text{NDF}$ : 22.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 1429.489+/-0.576  $\chi^2/\text{NDF}$ : 439241.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1409.498+/-0.517  $\chi^2/\text{NDF}$ : 174507.8/9

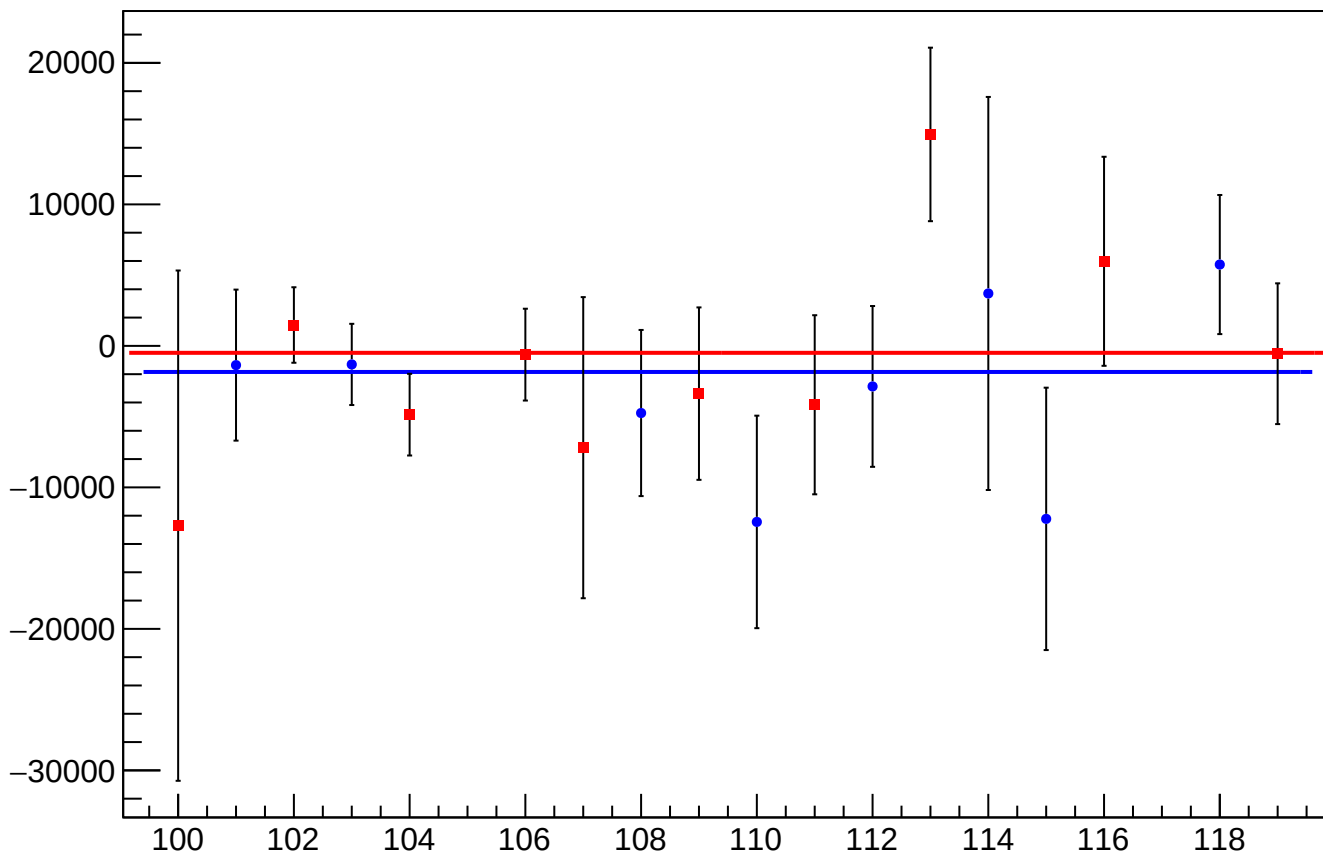
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1418.417+/-0.385  $\chi^2/\text{NDF}$ : 614416.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_dit\_correction\_mean vs Slug



Right In: -1843.109+/-1849.035  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -490.561+/-1407.661  $\chi^2/\text{NDF}$ : 11.4/9

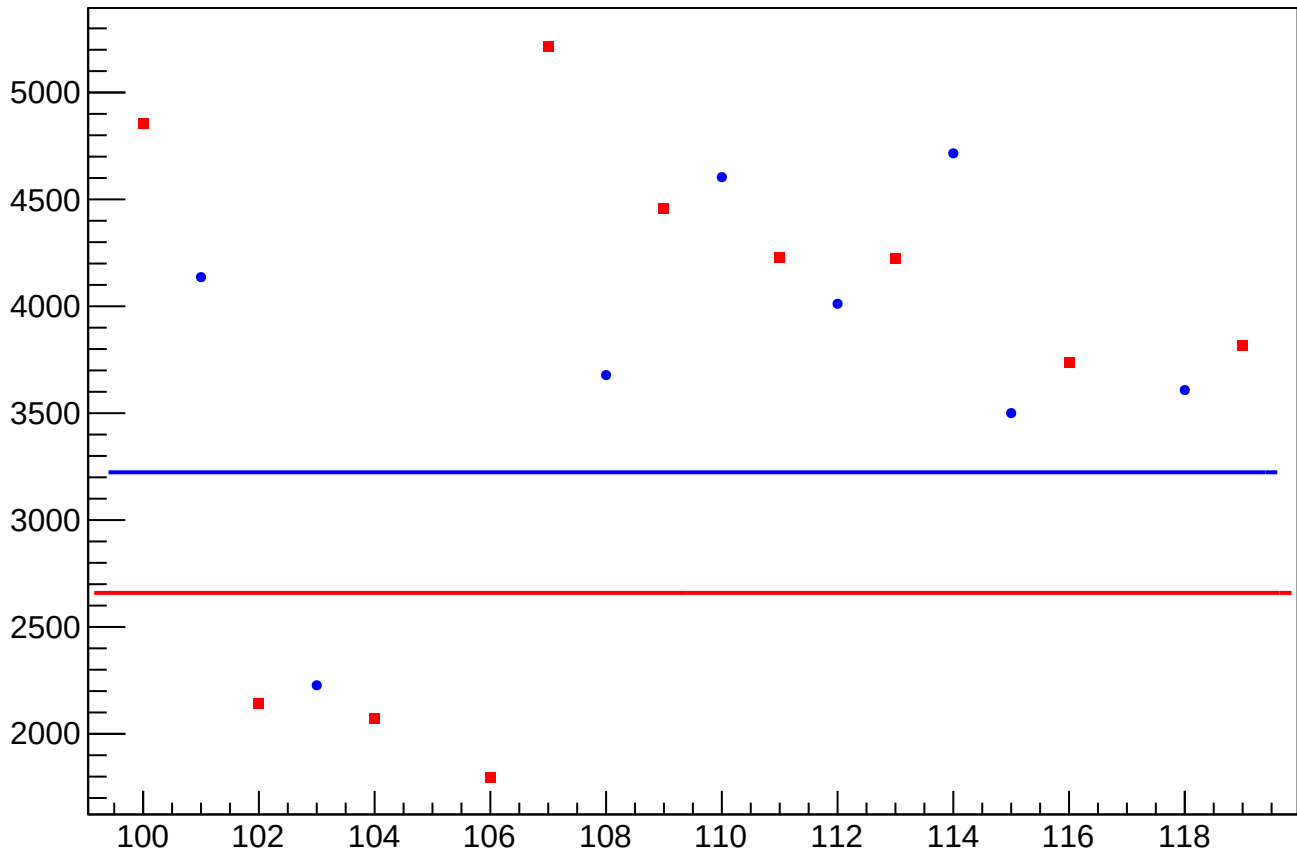
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -986.833+/-1120.027  $\chi^2/\text{NDF}$ : 17.8/17

- 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: 3223.487+/-1.307  $\chi^2/\text{NDF}$ : 454896.4/7

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: 2659.433+/-0.995  $\chi^2/\text{NDF}$ : 1021940.6/9

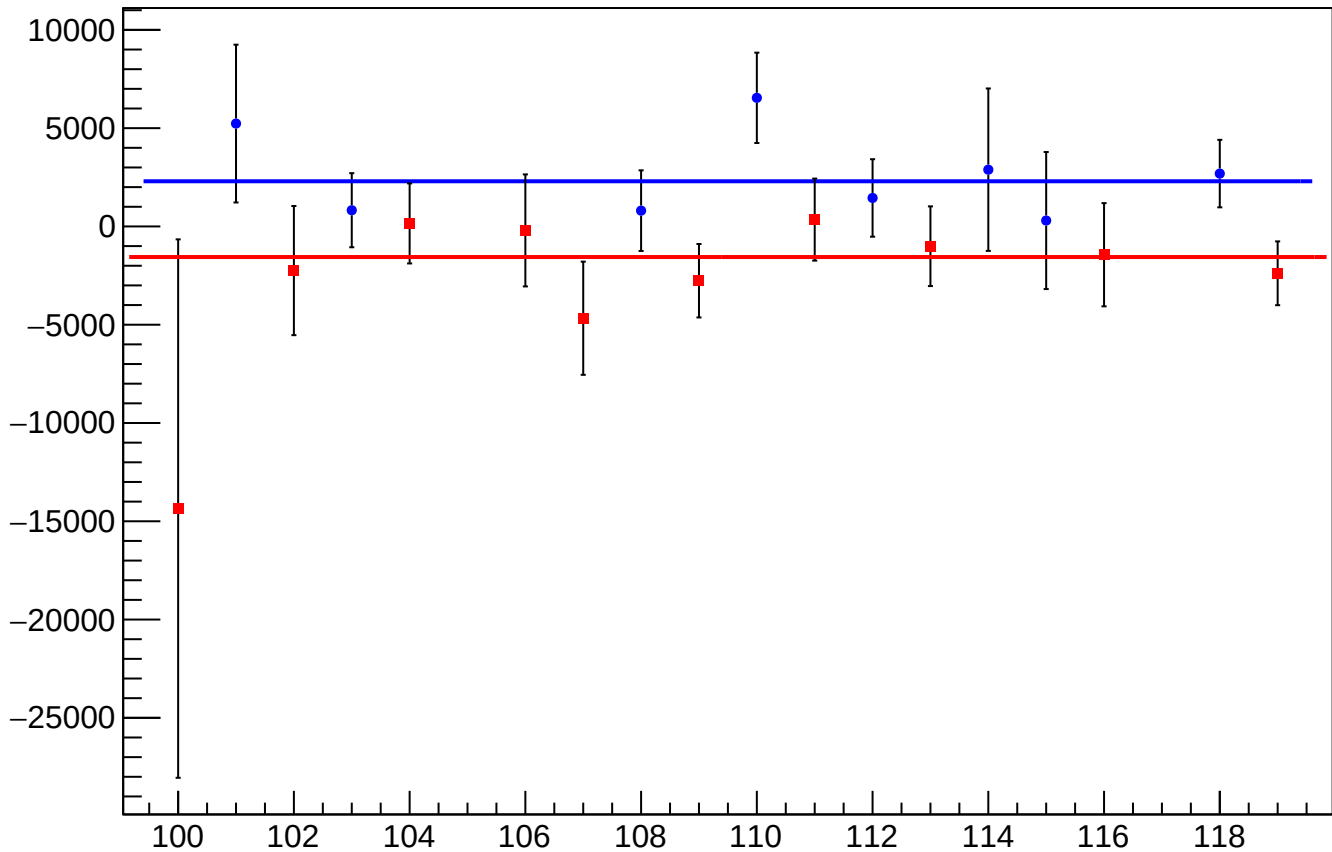
All: 2866.393+/-0.792  $\chi^2/\text{NDF}$ : 1594663.3/17

- 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\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2297.956+/-814.268  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1556.382+/-731.823  $\chi^2/\text{NDF}$ : 4.6/9

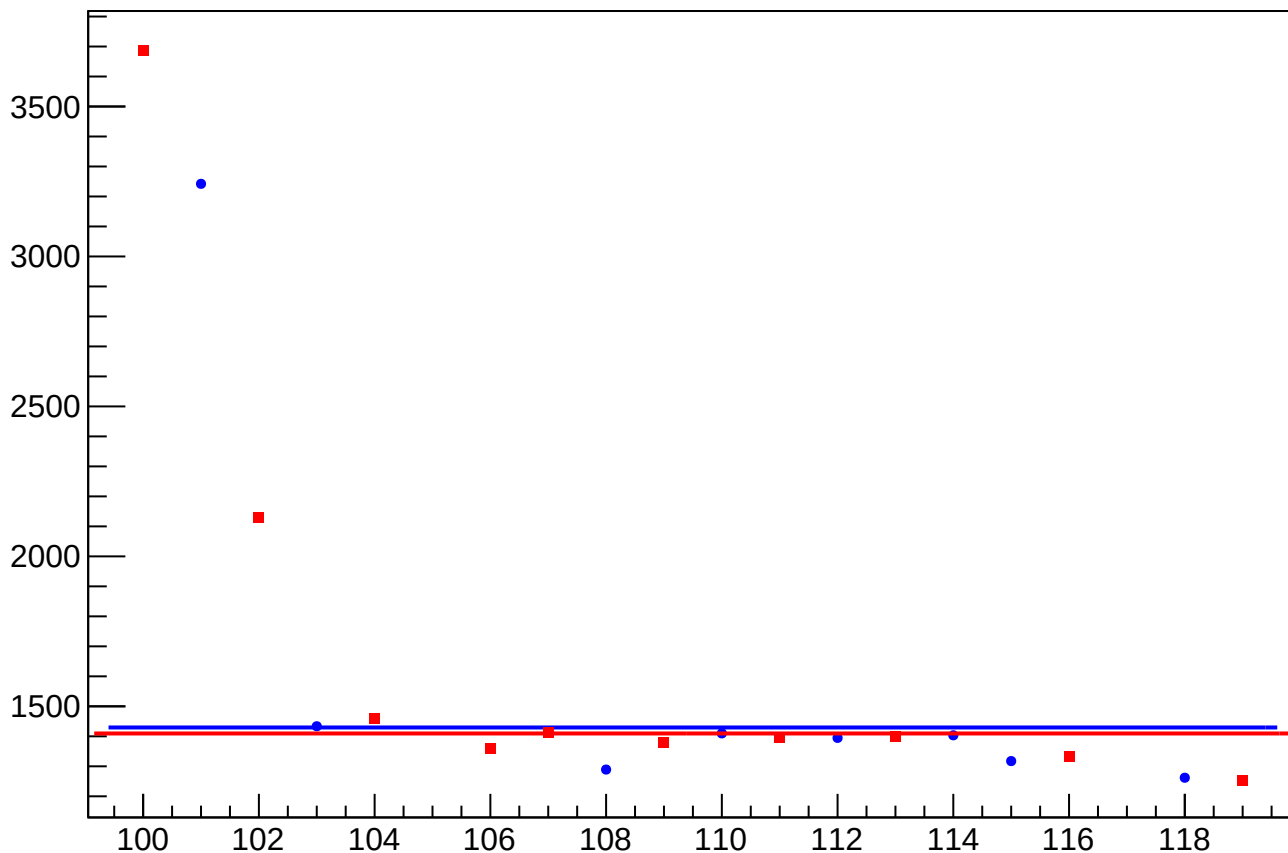
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 165.836+/-544.298  $\chi^2/\text{NDF}$ : 22.7/17

- 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: 1429.488 $\pm$ 0.576  $\chi^2$ /NDF: 439241.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1409.497 $\pm$ 0.517  $\chi^2$ /NDF: 174507.0/9

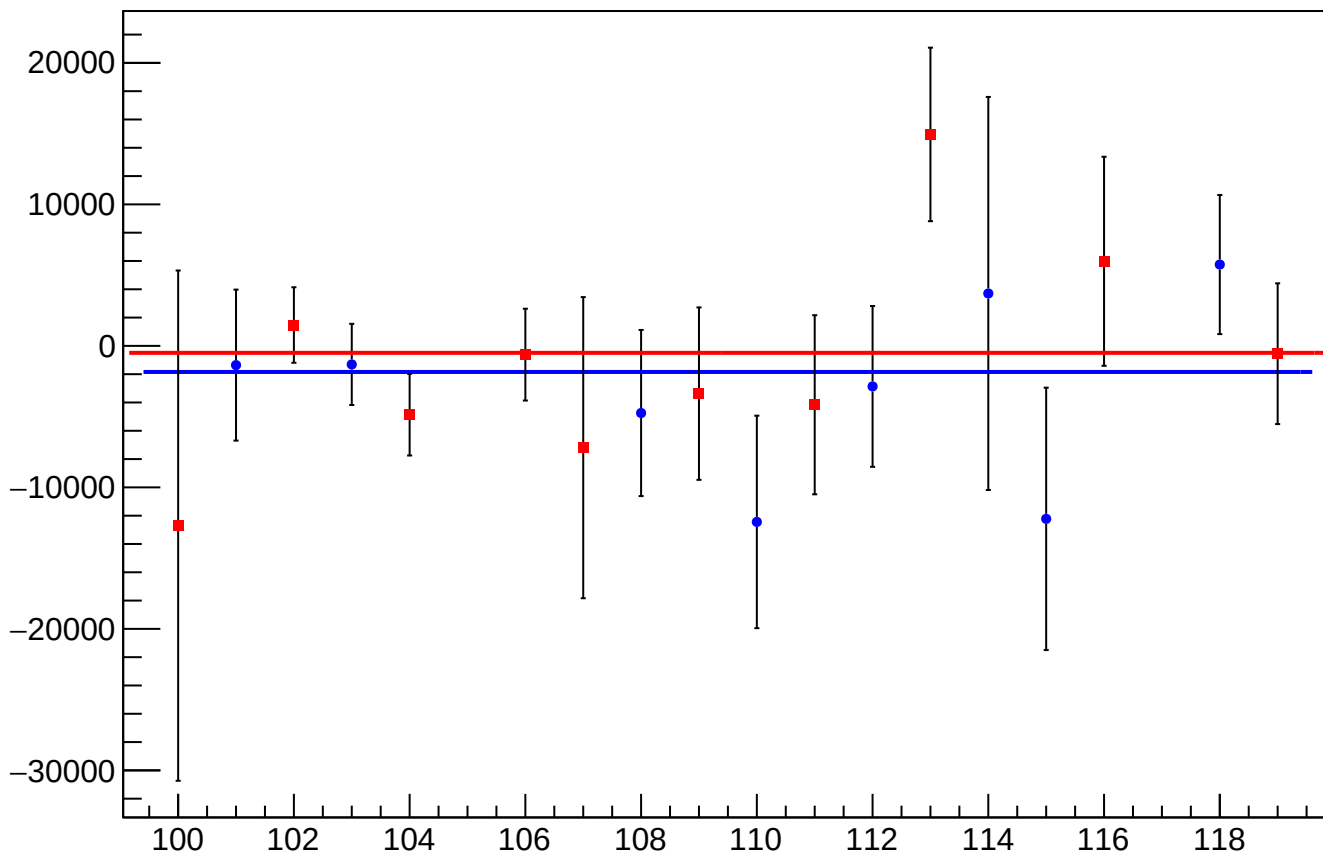
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1418.417 $\pm$ 0.385  $\chi^2$ /NDF: 614416.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -1843.103+/-1849.030  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -490.562+/-1407.657  $\chi^2/\text{NDF}$ : 11.4/9

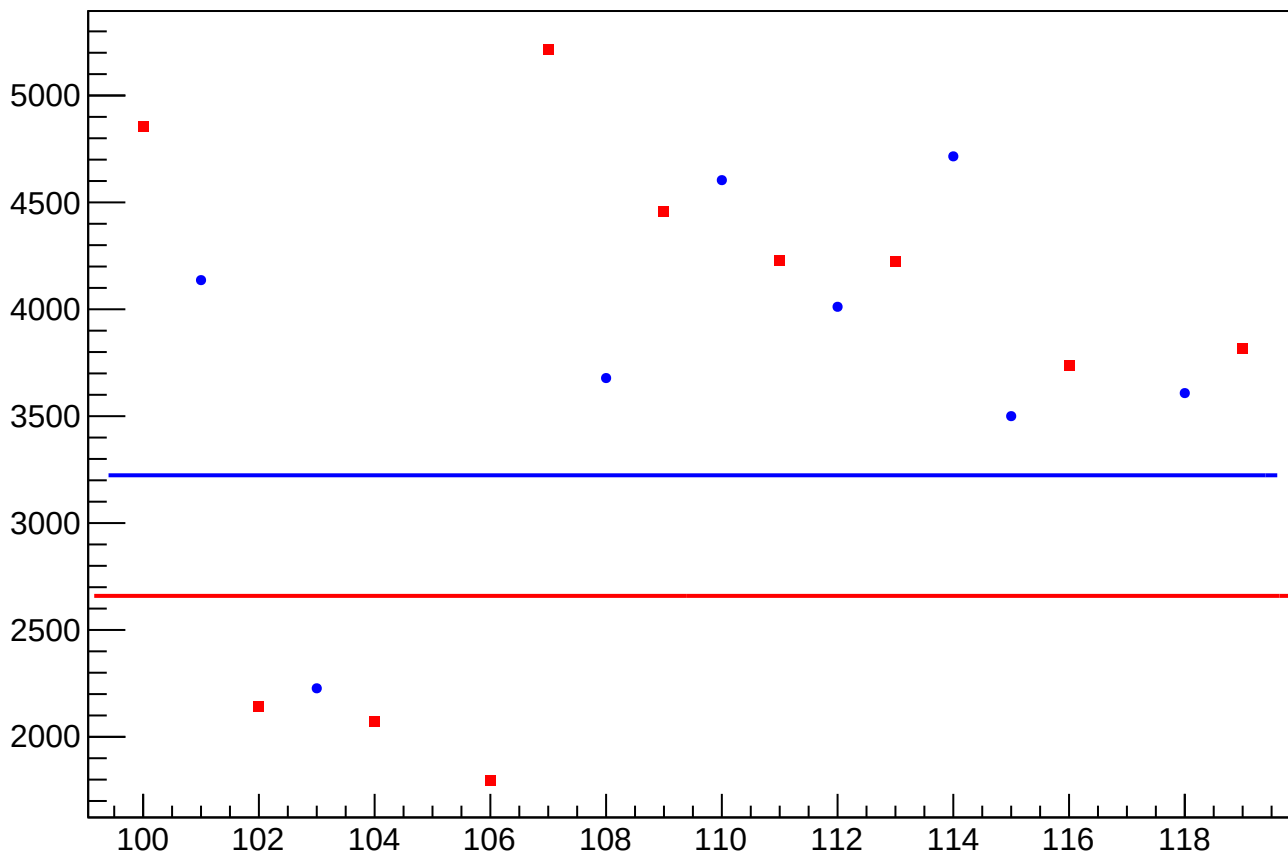
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -986.831+/-1120.024  $\chi^2/\text{NDF}$ : 17.8/17

- 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: 3223.479+/-1.307  $\chi^2/\text{NDF}$ : 454895.8/7

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

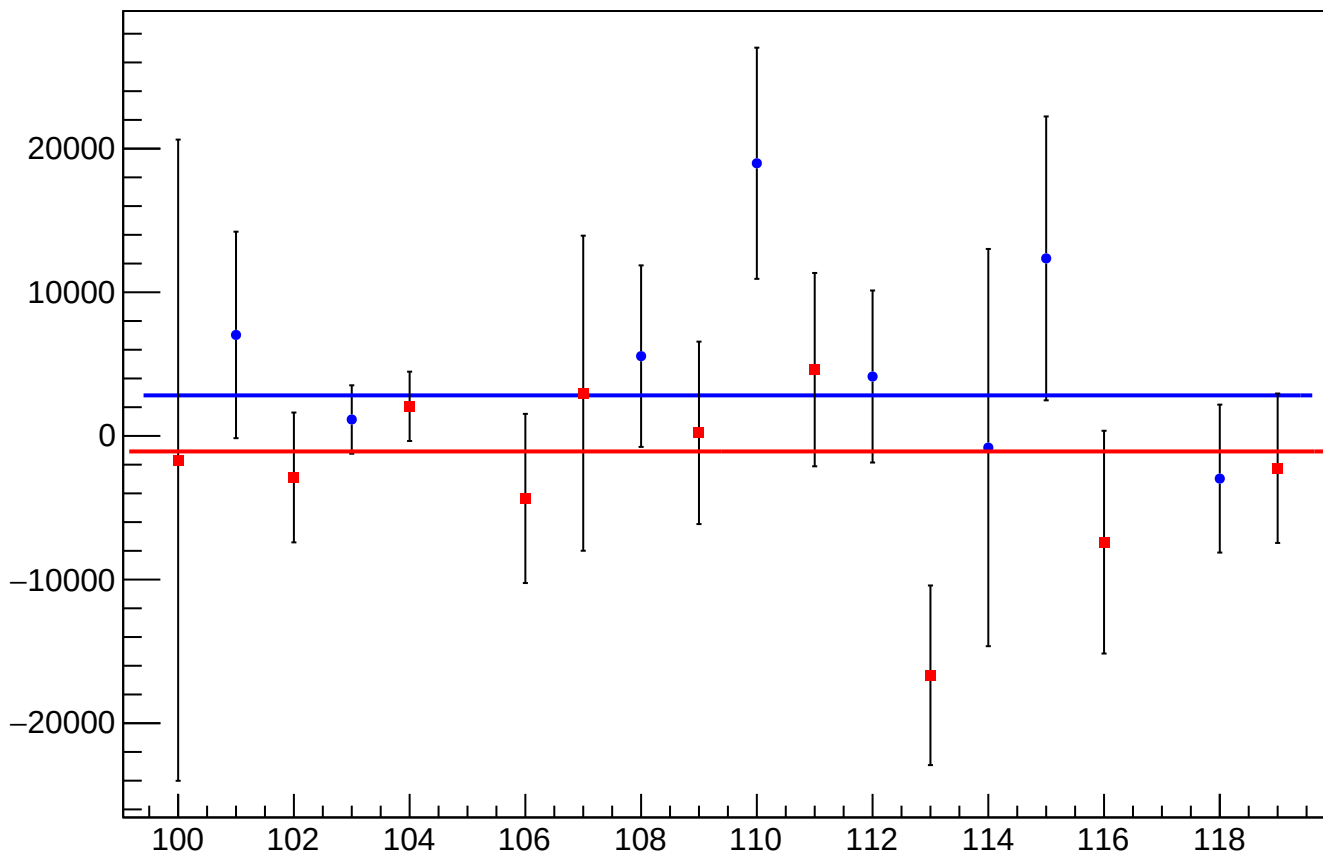
Right Out: 2659.425+/-0.995  $\chi^2/\text{NDF}$ : 1021941.1/9

All: 2866.386+/-0.792  $\chi^2/\text{NDF}$ : 1594663.8/17

- 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\_atr\_avg\_avg\_mean vs Slug



Right In: 2822.948+/-1775.321  $\chi^2/\text{NDF}$ : 7.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1080.137+/-1609.628  $\chi^2/\text{NDF}$ : 10.0/9

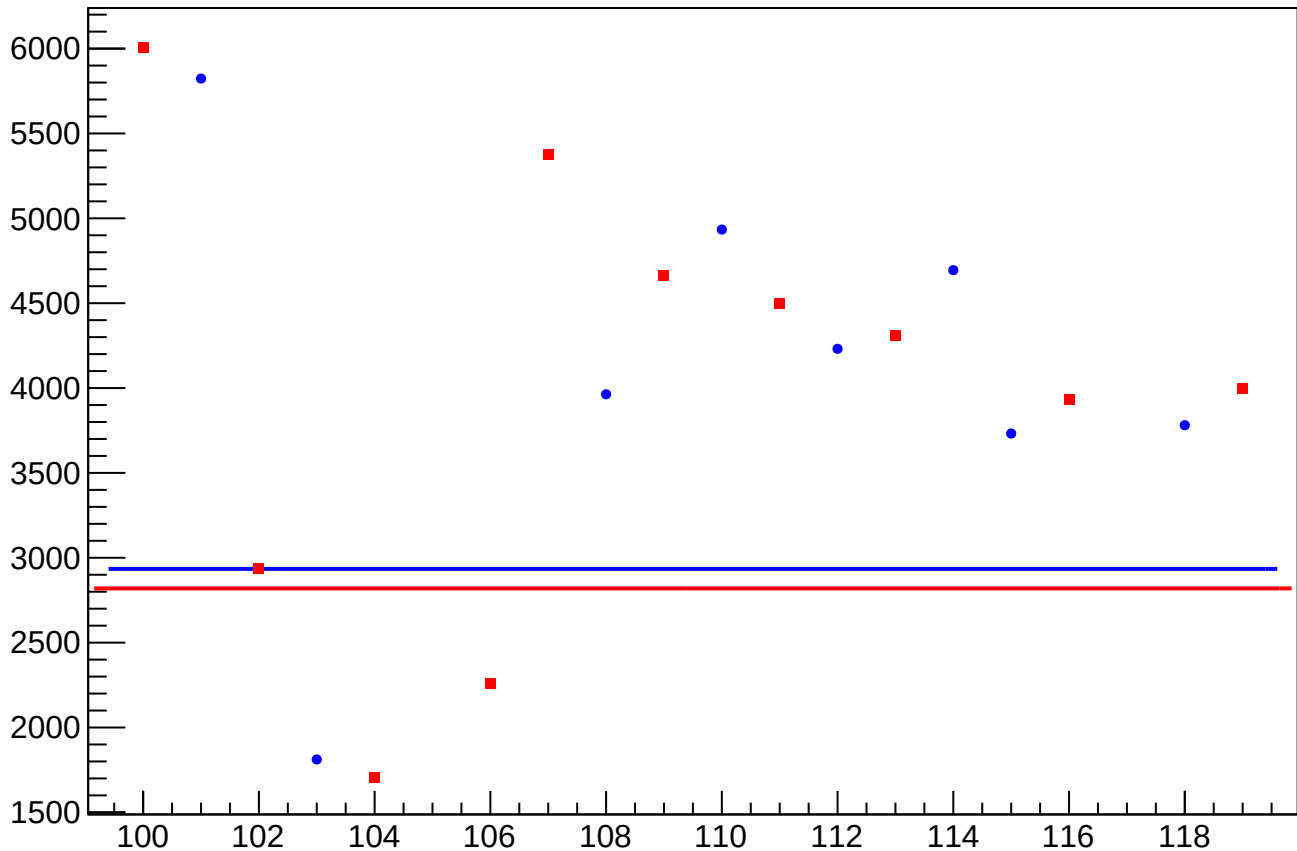
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 680.807+/-1192.465  $\chi^2/\text{NDF}$ : 20.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 2934.559+/-1.255  $\chi^2/\text{NDF}$ : 1137526.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2819.358+/-1.116  $\chi^2/\text{NDF}$ : 1155455.9/9

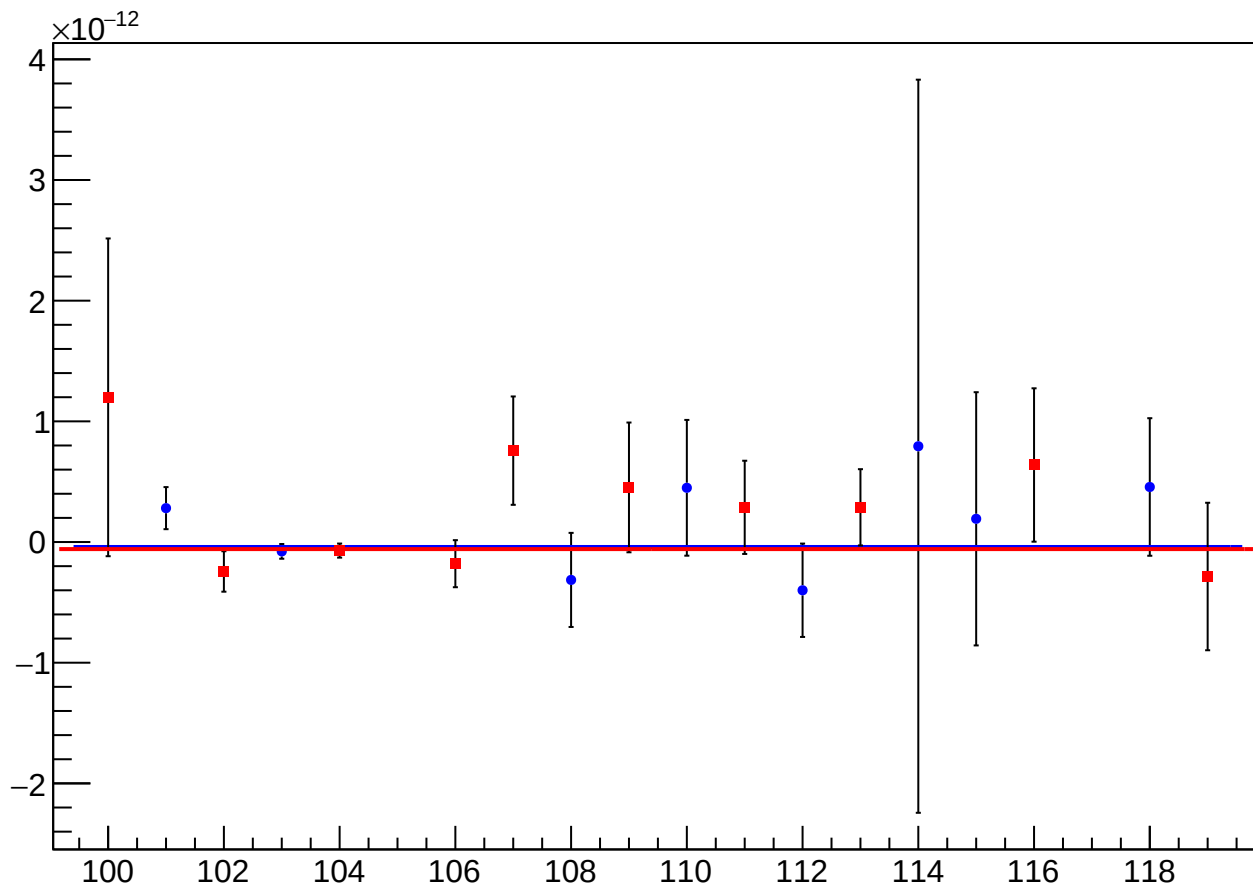
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2870.205+/-0.834  $\chi^2/\text{NDF}$ : 2297686.7/17

- 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  $\chi^2/\text{NDF}$ : 6.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.1/9

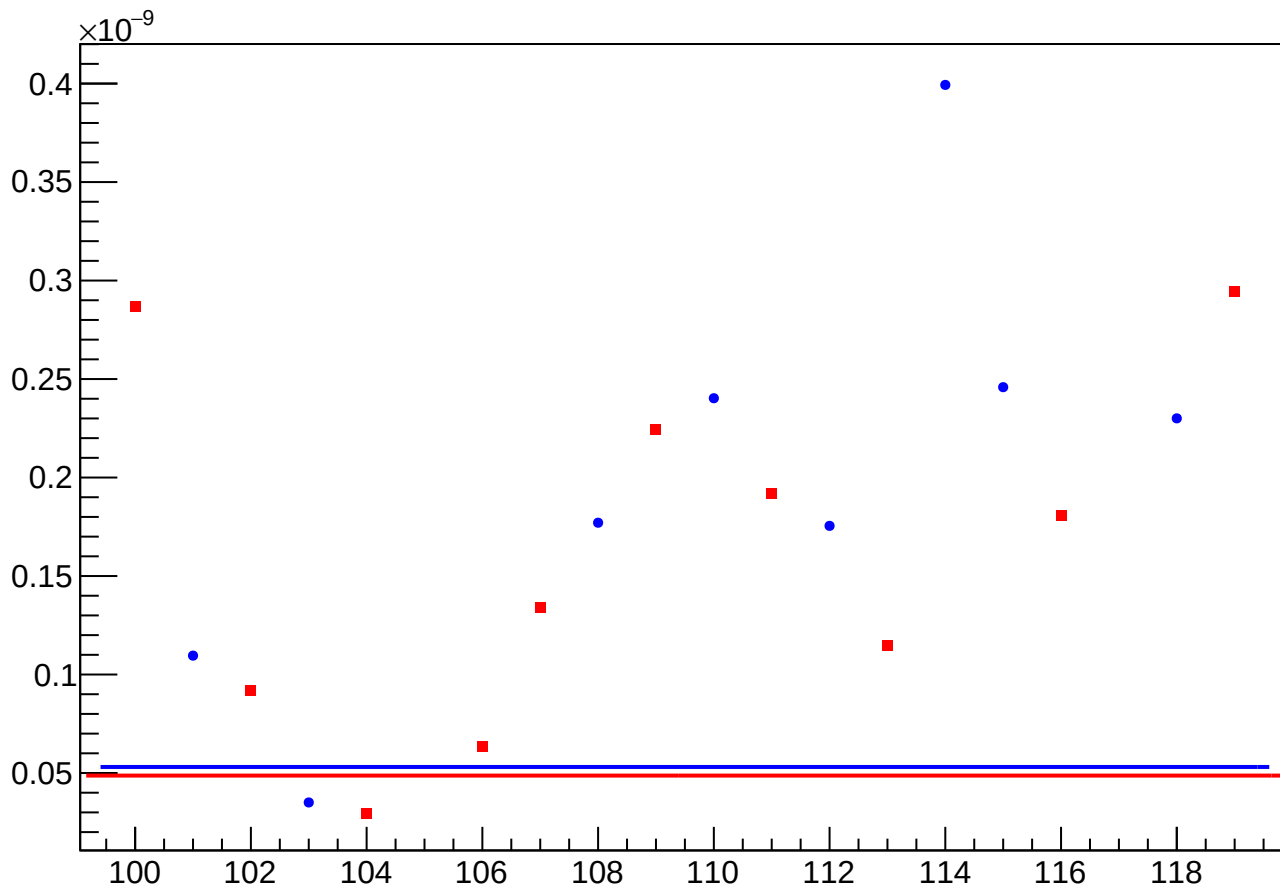
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1295051.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1485770.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

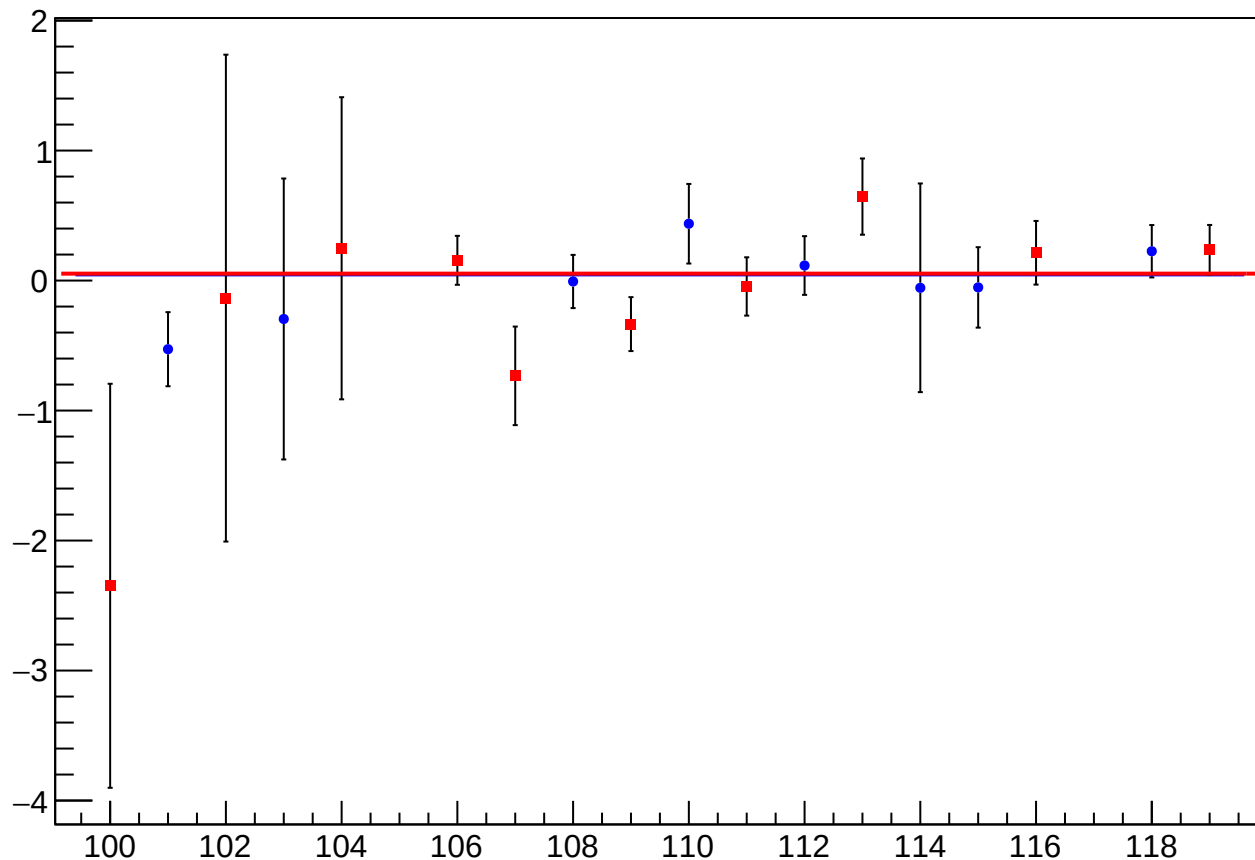
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2787539.4/17

- 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: 0.047 $\pm$ 0.098  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.053 $\pm$ 0.086  $\chi^2$ /NDF: 16.1/9

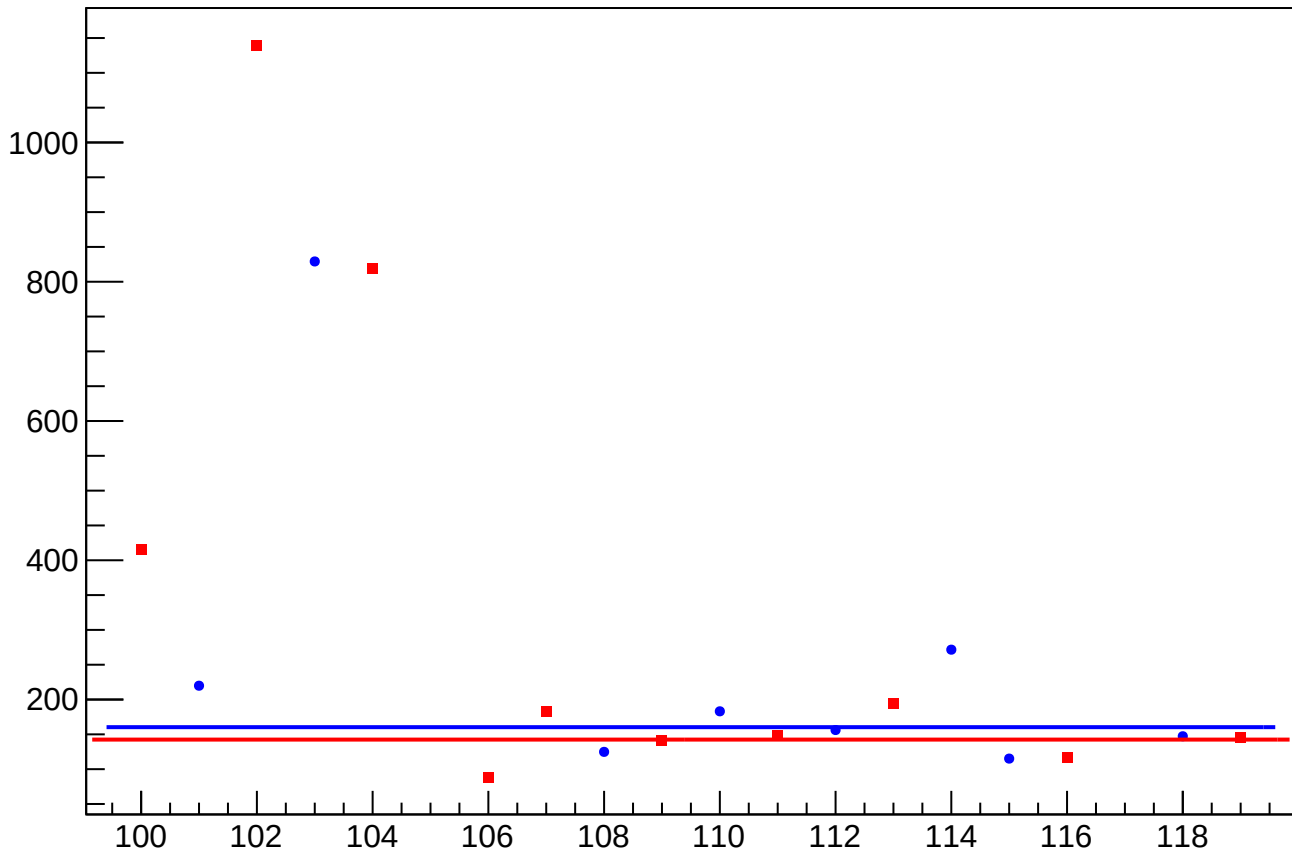
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.051 $\pm$ 0.065  $\chi^2$ /NDF: 23.0/17

- 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: 160.323+/-0.069  $\chi^2/\text{NDF}$ : 1014568.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 142.473+/-0.061  $\chi^2/\text{NDF}$ : 1582397.6/9

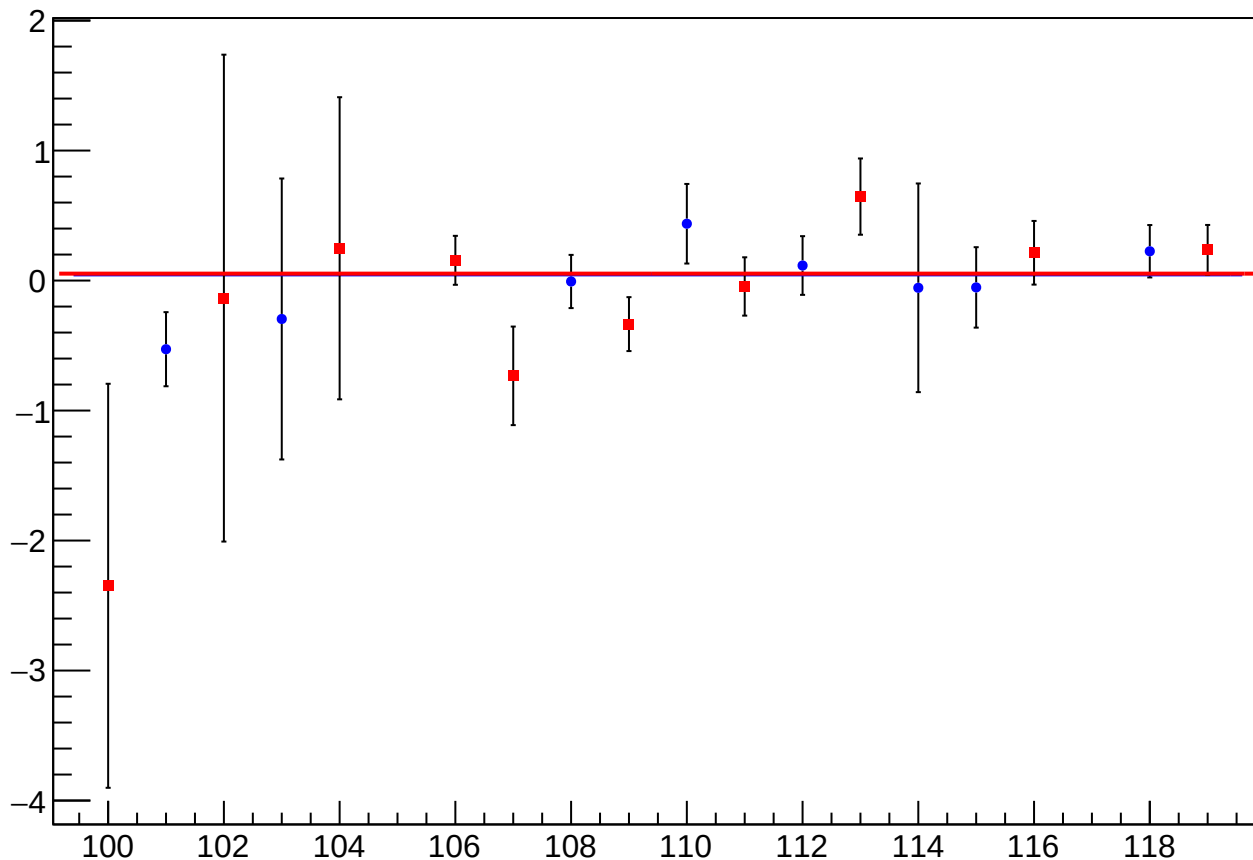
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 150.239+/-0.046  $\chi^2/\text{NDF}$ : 2634395.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.047 $\pm$ 0.098  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.053 $\pm$ 0.086  $\chi^2$ /NDF: 16.1/9

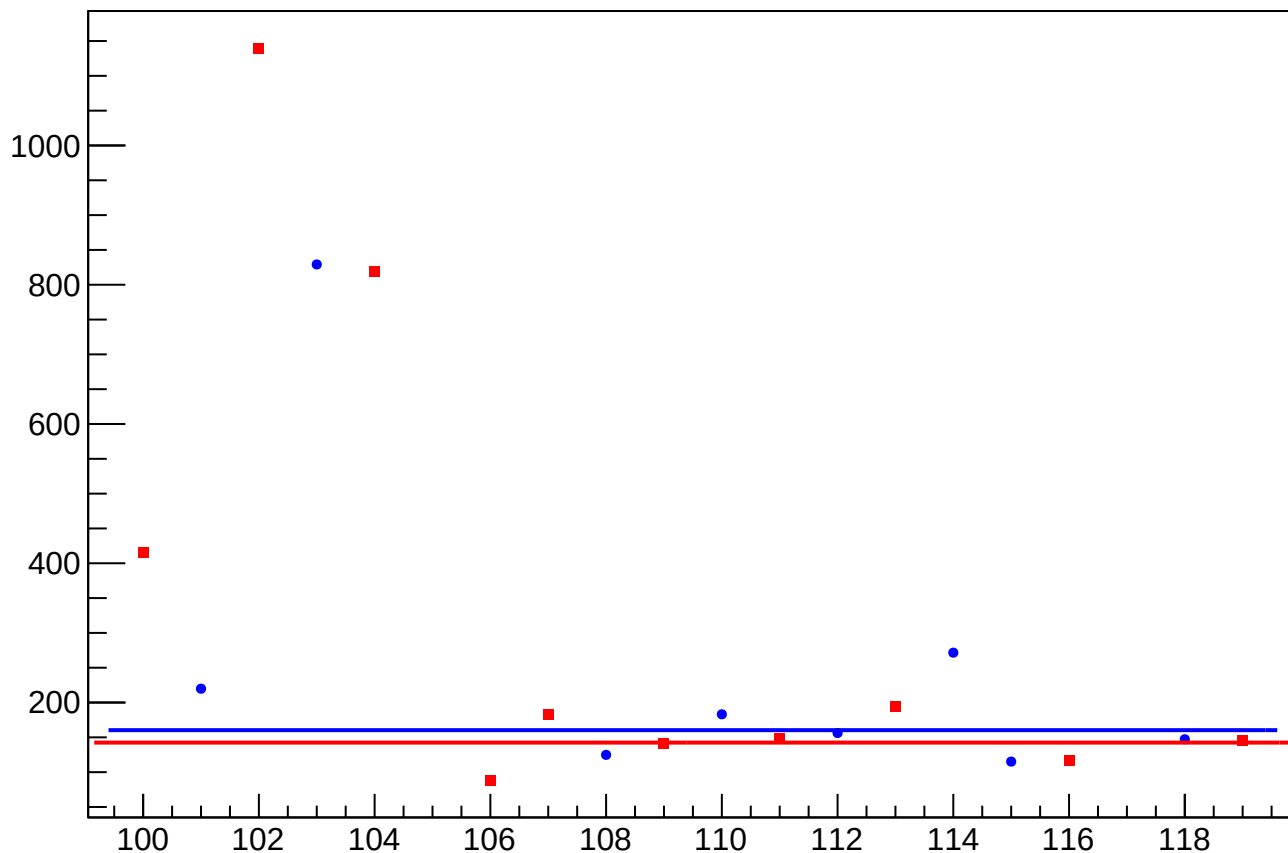
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.051 $\pm$ 0.065  $\chi^2$ /NDF: 23.0/17

- 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: 160.323+/-0.069  $\chi^2/\text{NDF}$ : 1014568.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 142.473+/-0.061  $\chi^2/\text{NDF}$ : 1582397.6/9

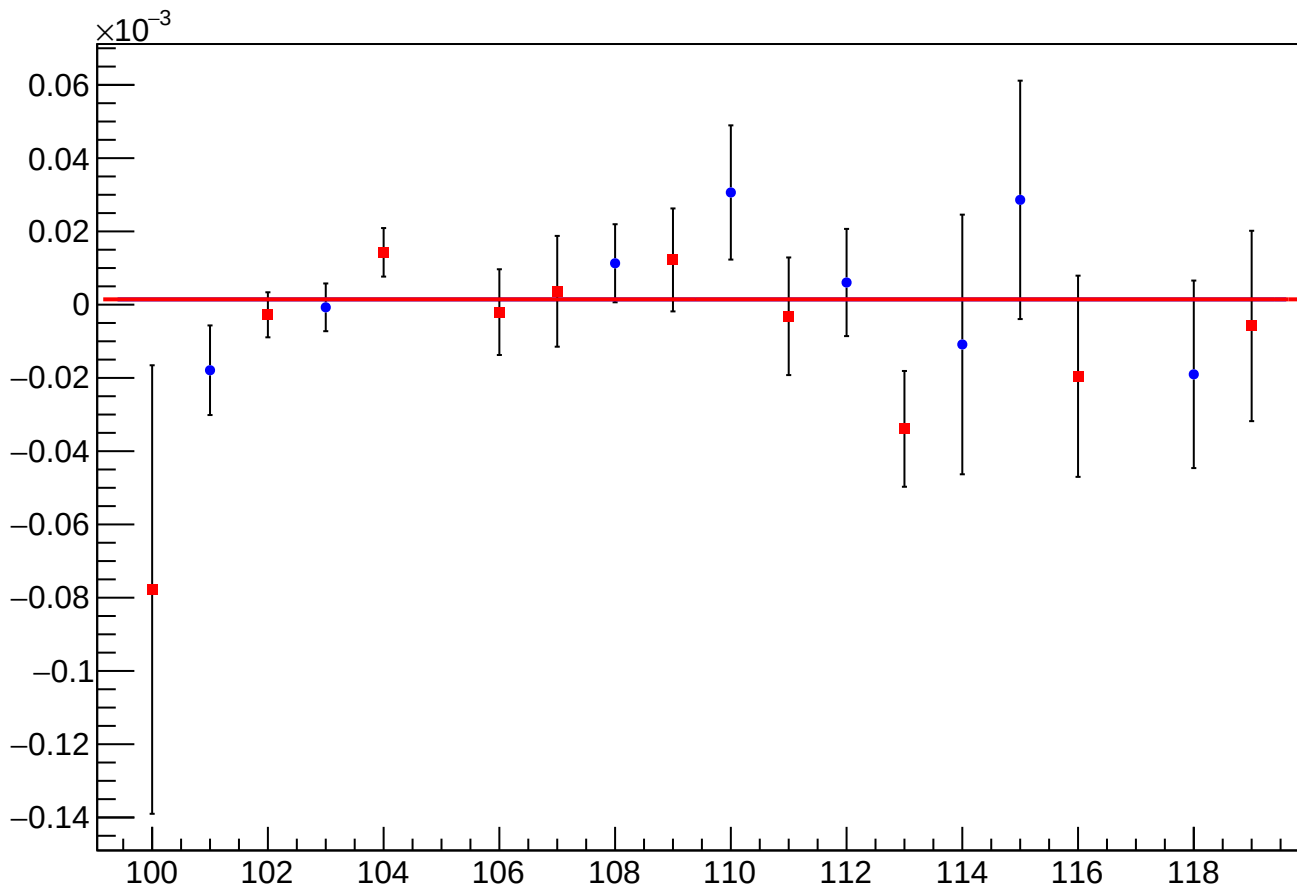
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 150.239+/-0.046  $\chi^2/\text{NDF}$ : 2634395.8/17

- 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  $\chi^2$ /NDF: 7.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.3/9

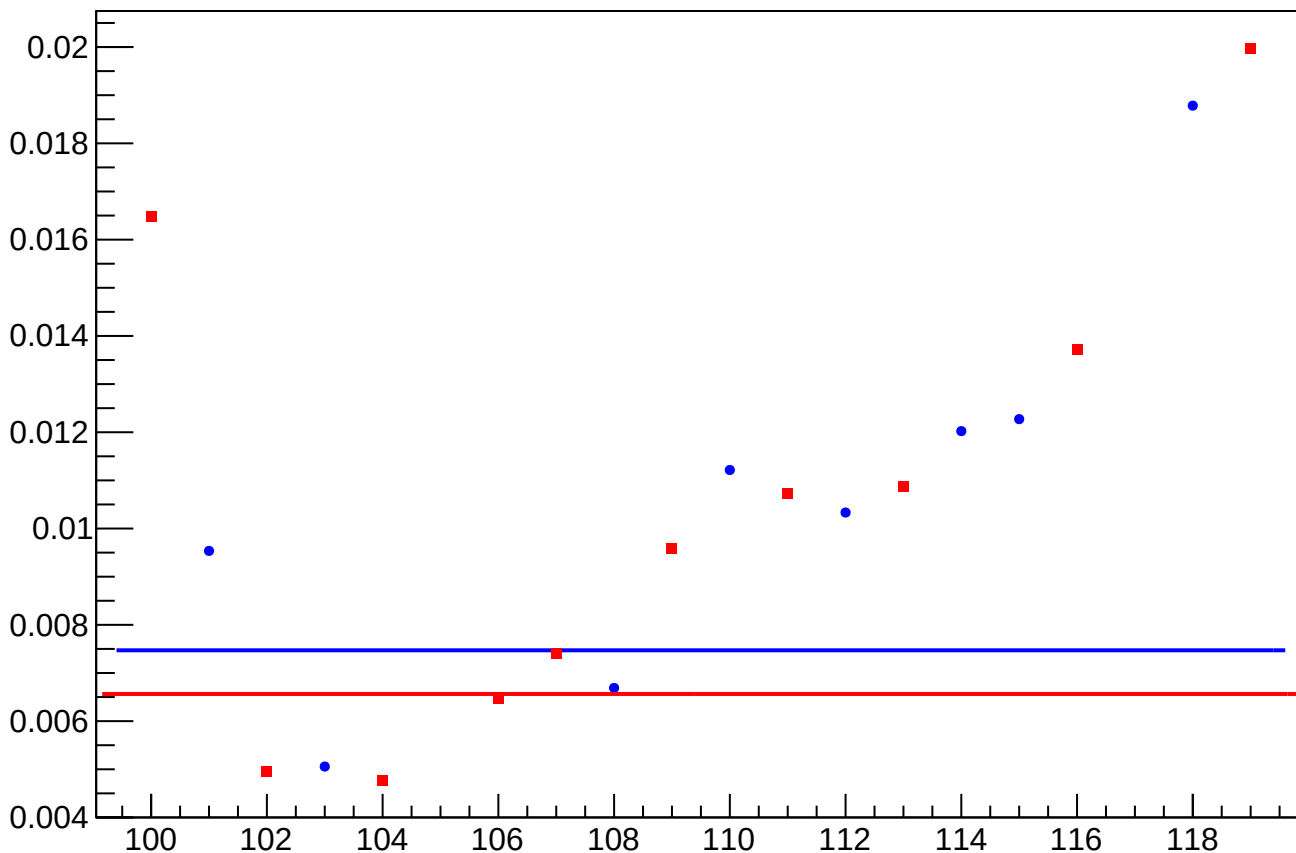
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 969408.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1388222.4/9

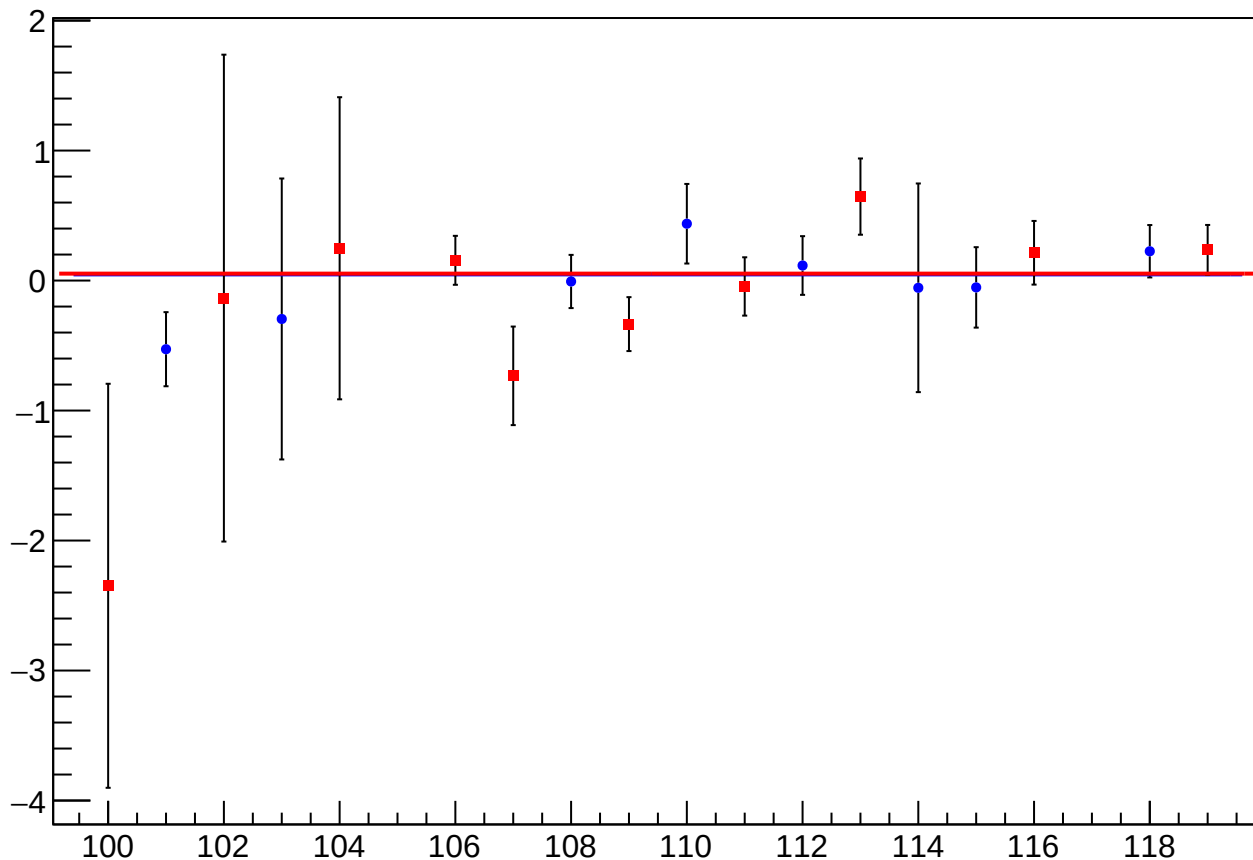
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 2407399.1/17

- 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: 0.047 $\pm$ 0.098  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.053 $\pm$ 0.086  $\chi^2$ /NDF: 16.1/9

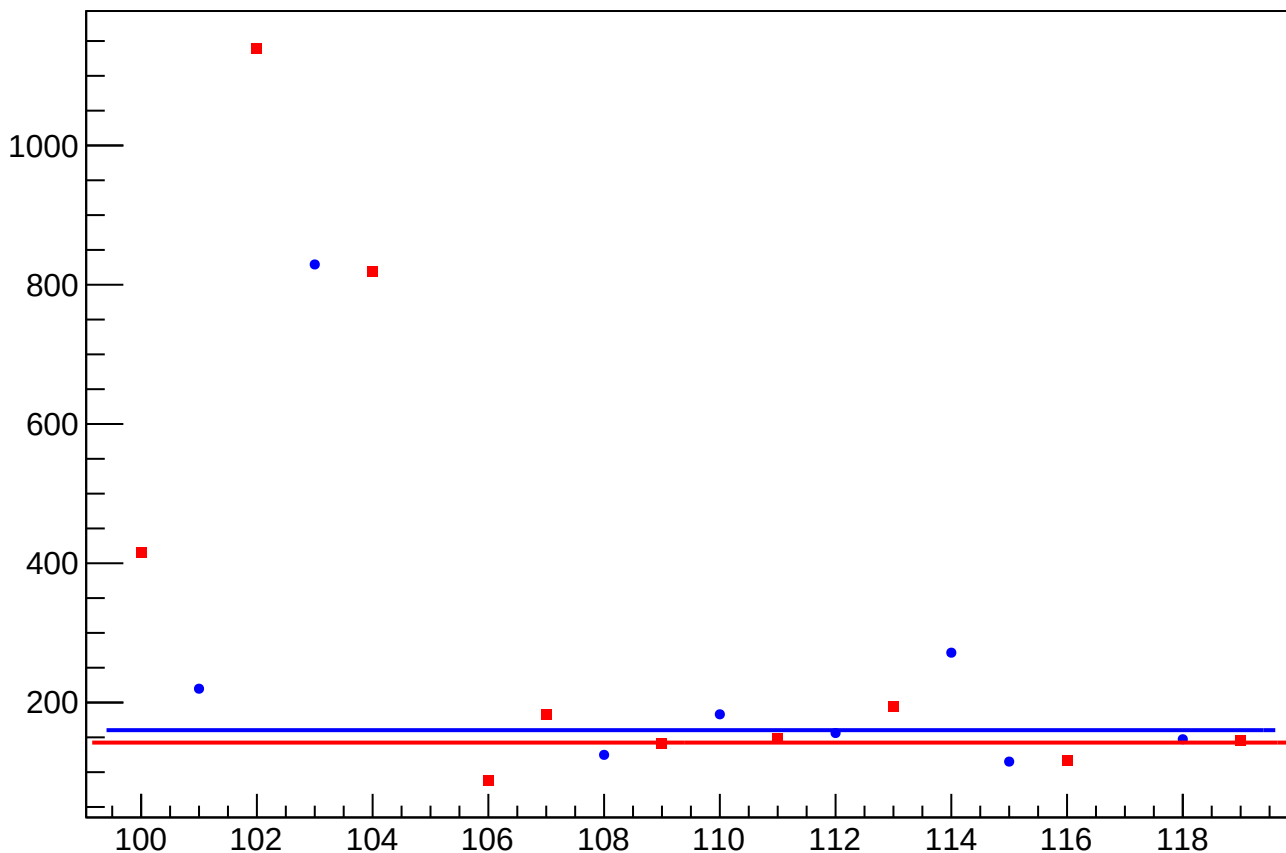
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.051 $\pm$ 0.065  $\chi^2$ /NDF: 23.0/17

- 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: 160.324+/-0.069  $\chi^2/\text{NDF}$ : 1014555.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 142.473+/-0.061  $\chi^2/\text{NDF}$ : 1582401.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

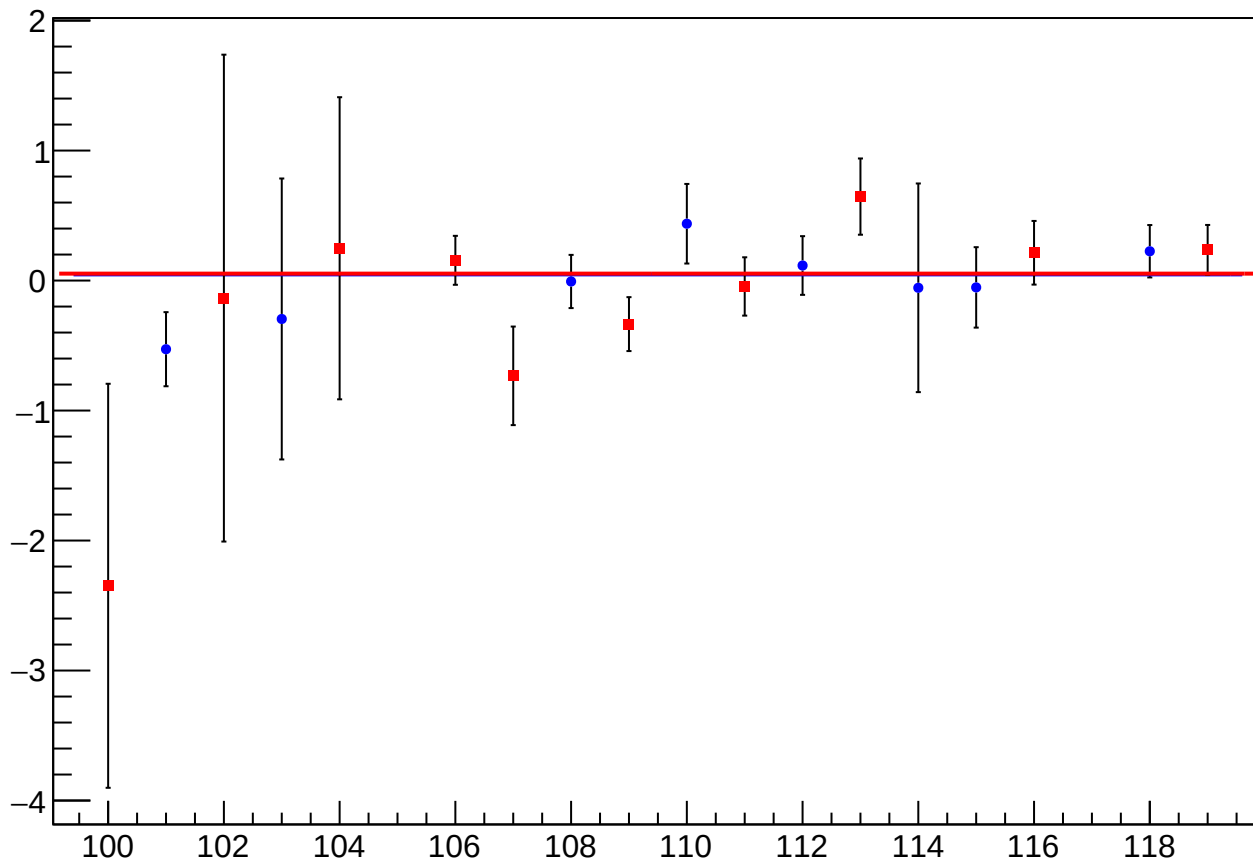
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 150.240+/-0.046  $\chi^2/\text{NDF}$ : 2634388.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.047 $\pm$ 0.098  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.053 $\pm$ 0.086  $\chi^2$ /NDF: 16.1/9

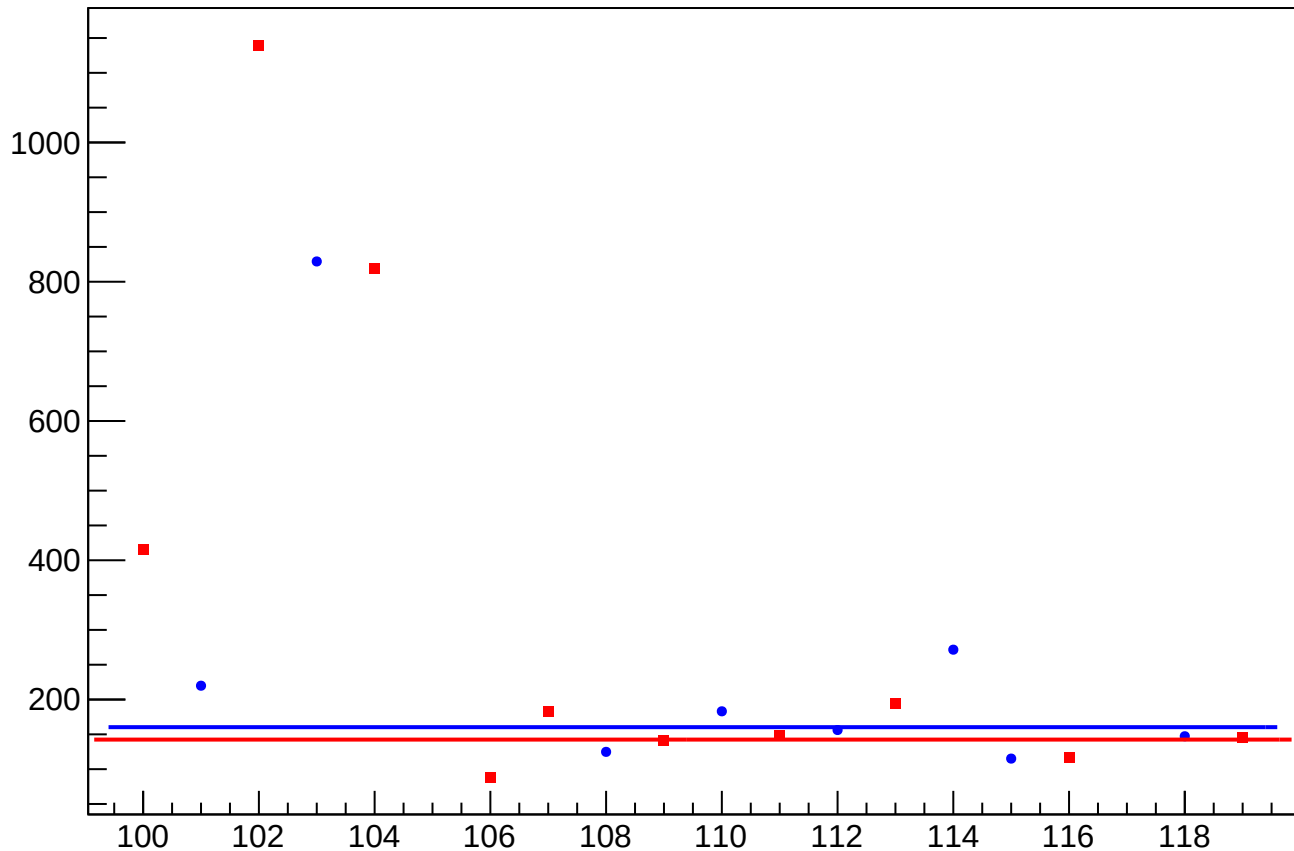
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.051 $\pm$ 0.065  $\chi^2$ /NDF: 23.0/17

- 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: 160.324+/-0.069  $\chi^2/\text{NDF}$ : 1014555.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 142.473+/-0.061  $\chi^2/\text{NDF}$ : 1582401.2/9

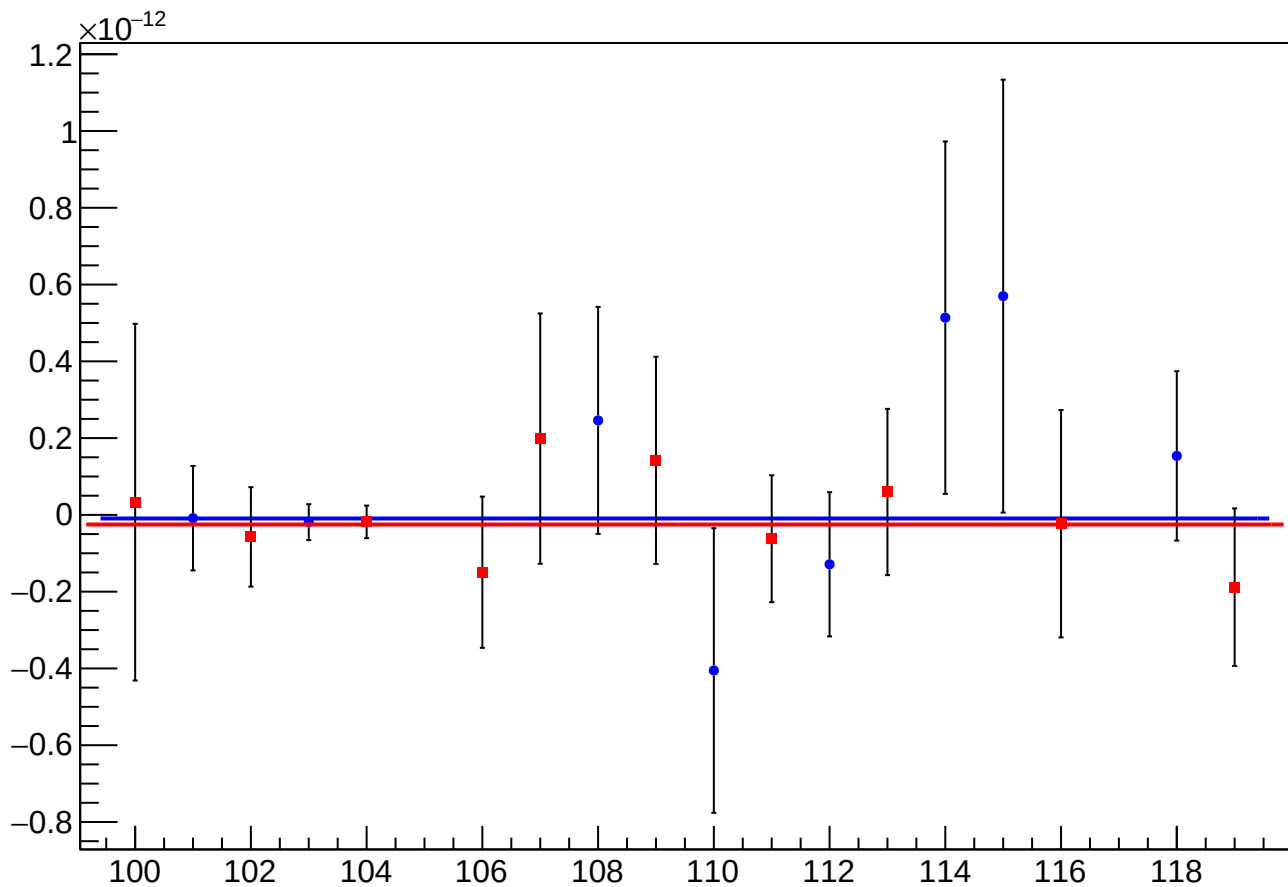
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 150.240+/-0.046  $\chi^2/\text{NDF}$ : 2634388.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/9

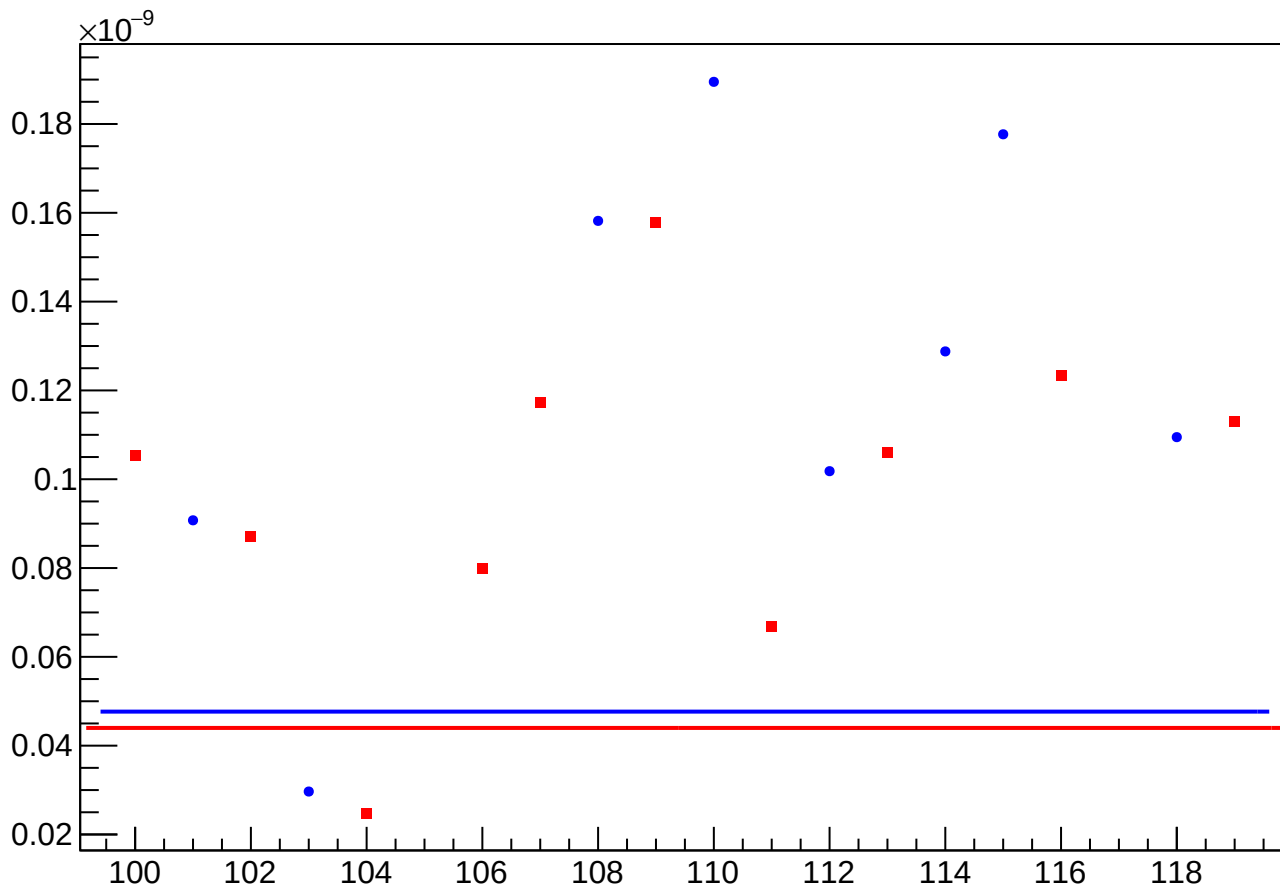
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1560914.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1768138.7/9

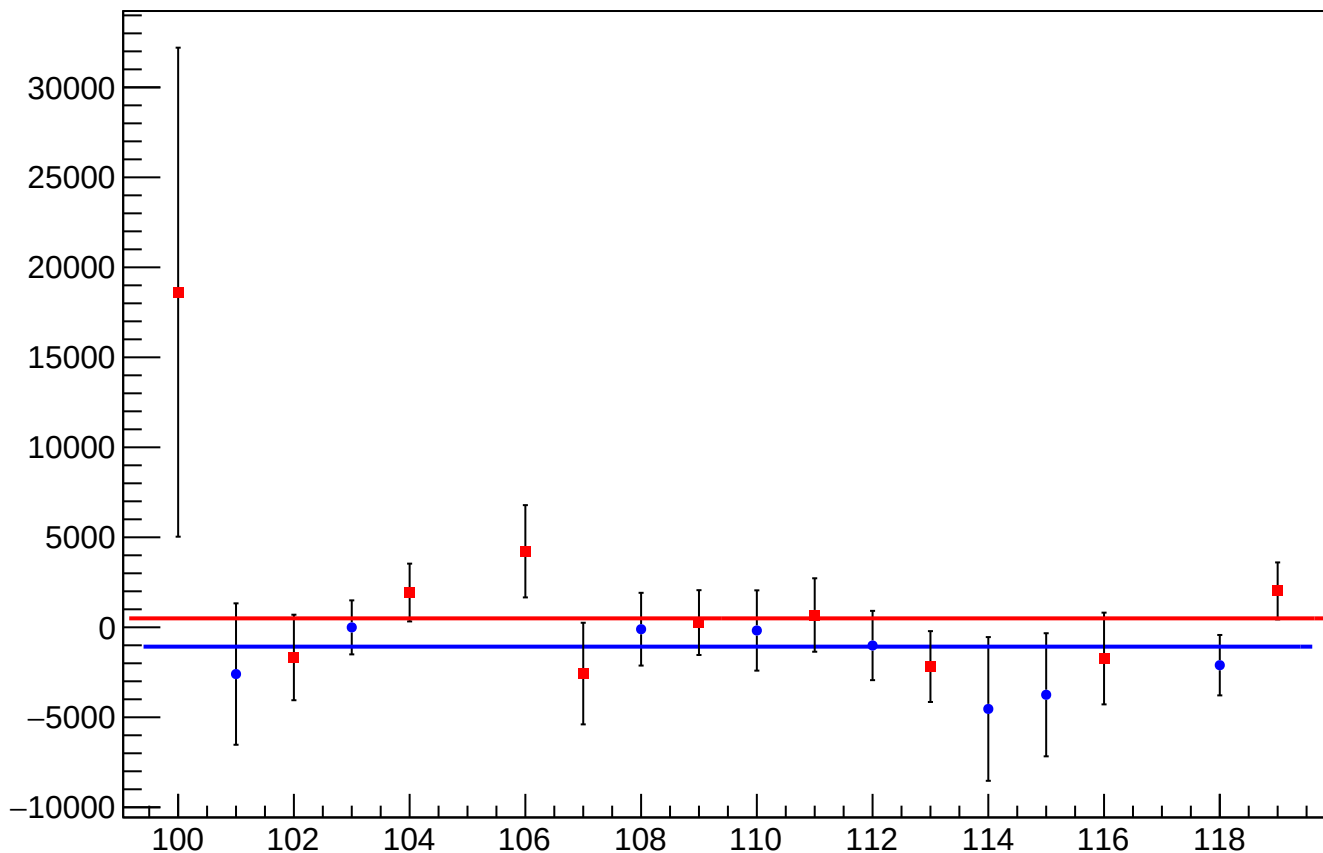
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3338003.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -1074.462 $\pm$ 760.724  $\chi^2$ /NDF: 2.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 496.610 $\pm$ 672.908  $\chi^2$ /NDF: 10.3/9

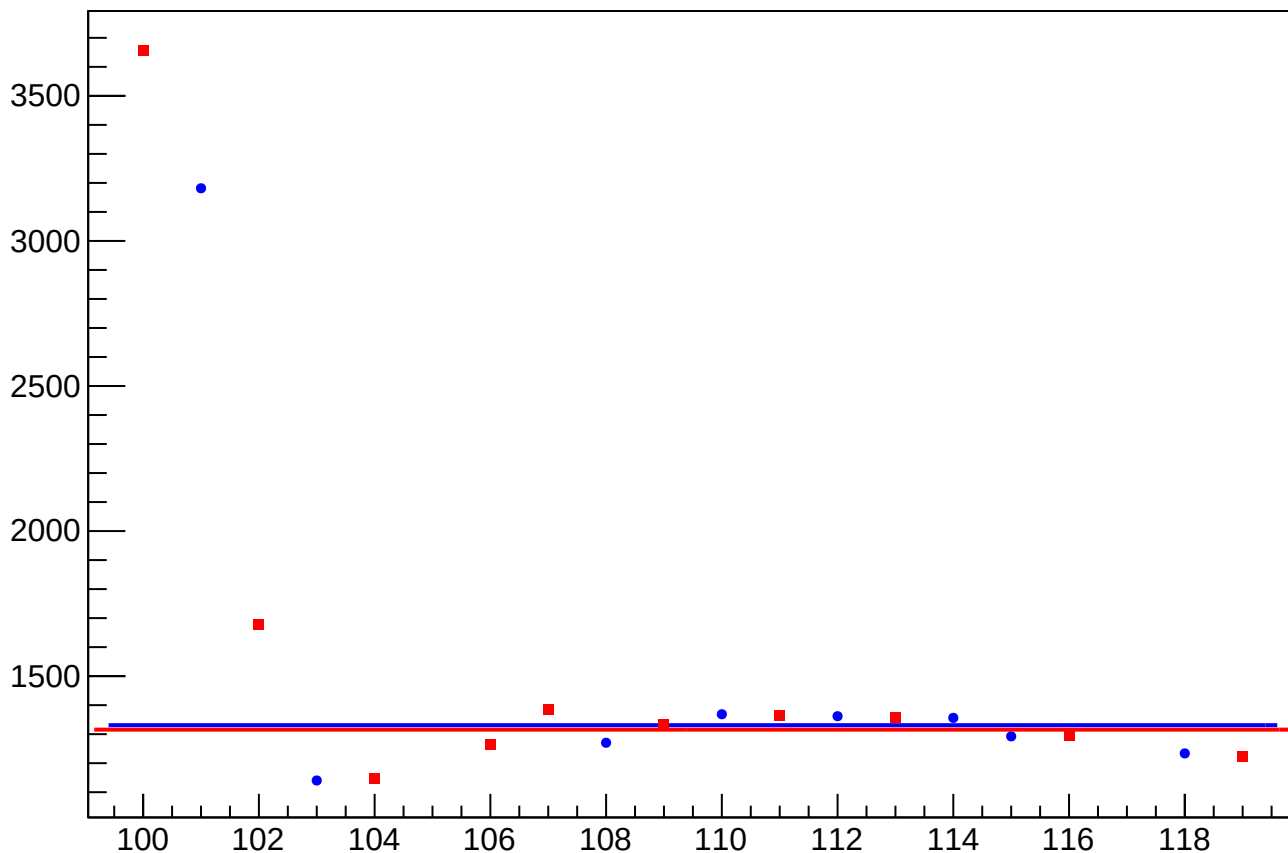
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -193.051 $\pm$ 504.019  $\chi^2$ /NDF: 15.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1331.009+/-0.538  $\chi^2/\text{NDF}$ : 486011.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1315.611+/-0.476  $\chi^2/\text{NDF}$ : 138635.7/9

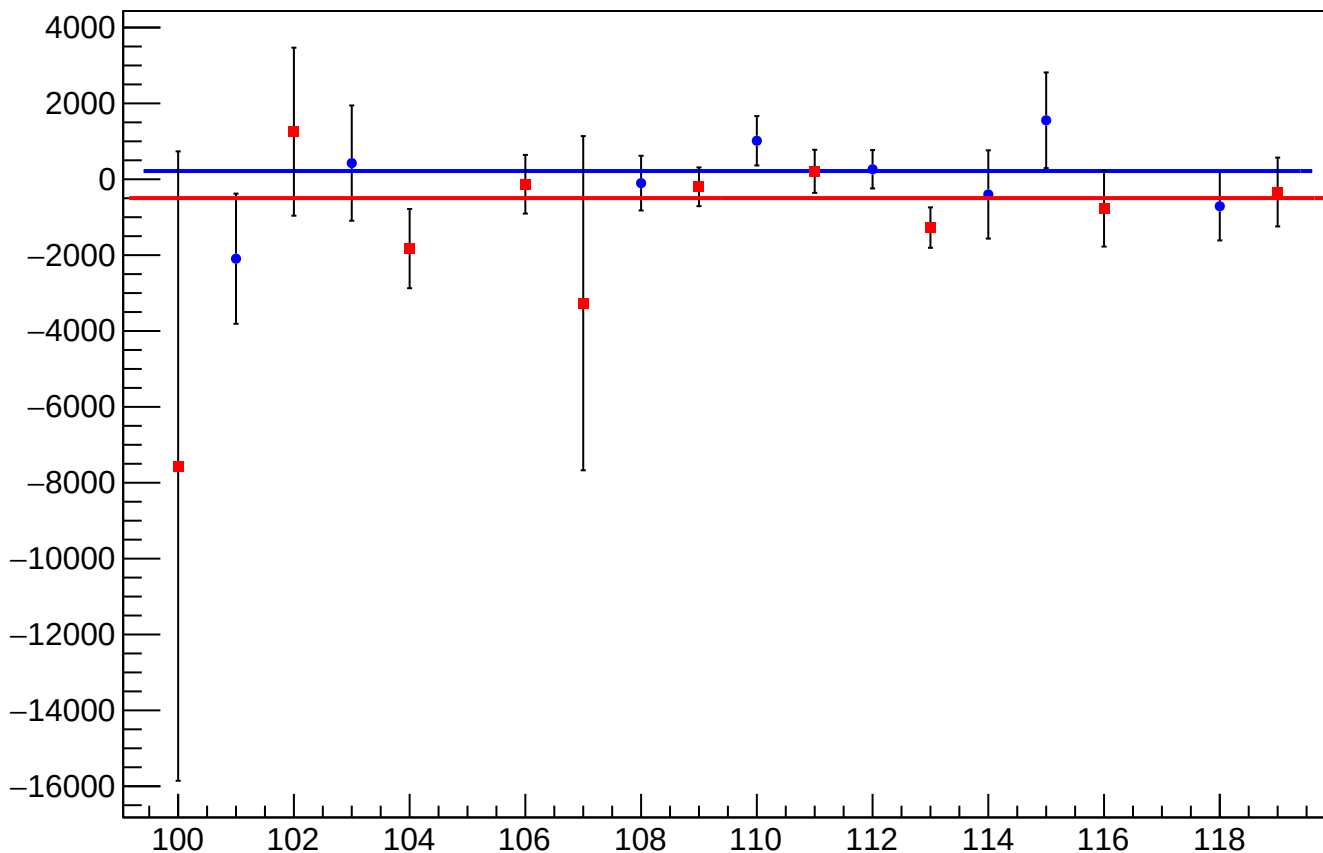
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1322.370+/-0.356  $\chi^2/\text{NDF}$ : 625107.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_reg\_correction\_mean vs Slug



Right In: 217.358 $\pm$ 294.011  $\chi^2$ /NDF: 6.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -495.406 $\pm$ 253.769  $\chi^2$ /NDF: 7.7/9

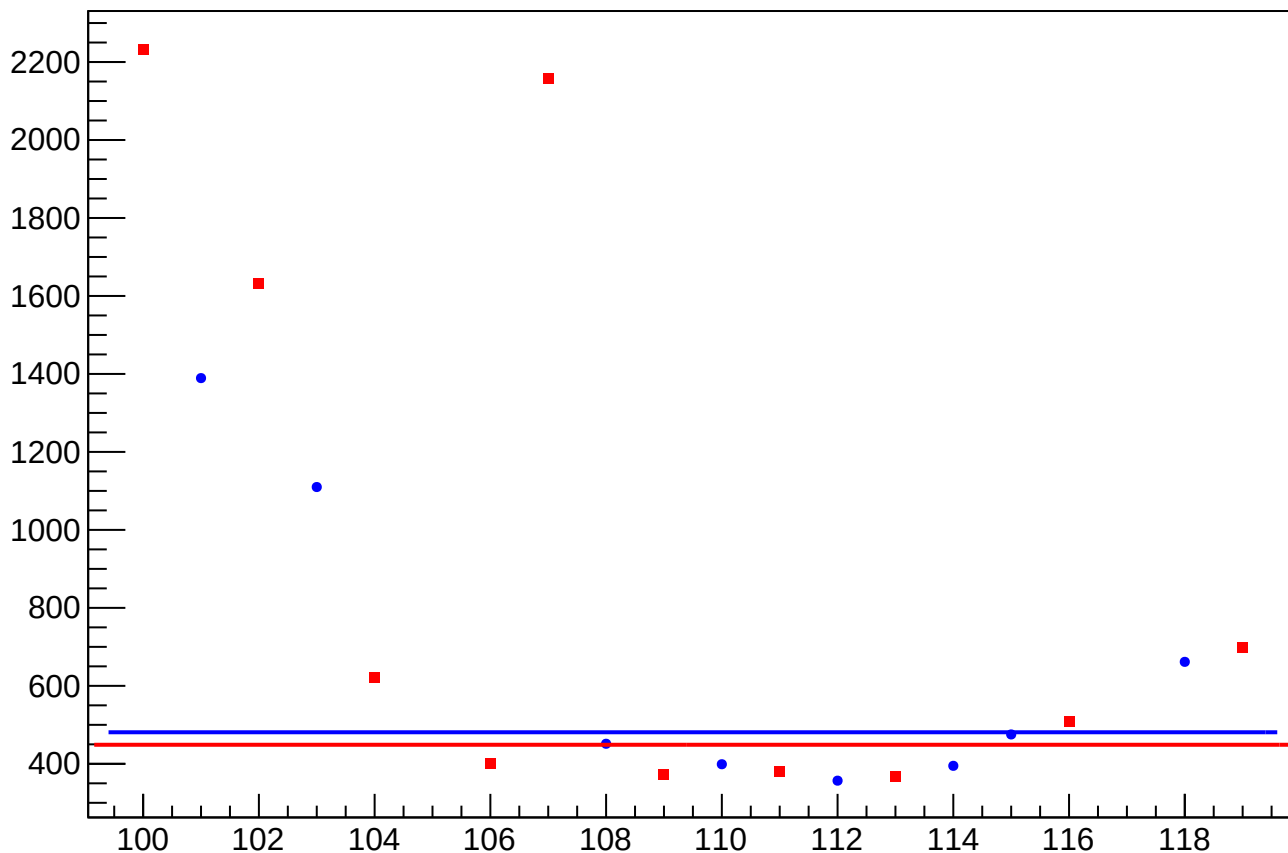
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -191.106 $\pm$ 192.107  $\chi^2$ /NDF: 17.1/17

- 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: 480.949+/-0.208  $\chi^2/\text{NDF}$ : 1150034.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 448.890+/-0.179  $\chi^2/\text{NDF}$ : 1307299.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

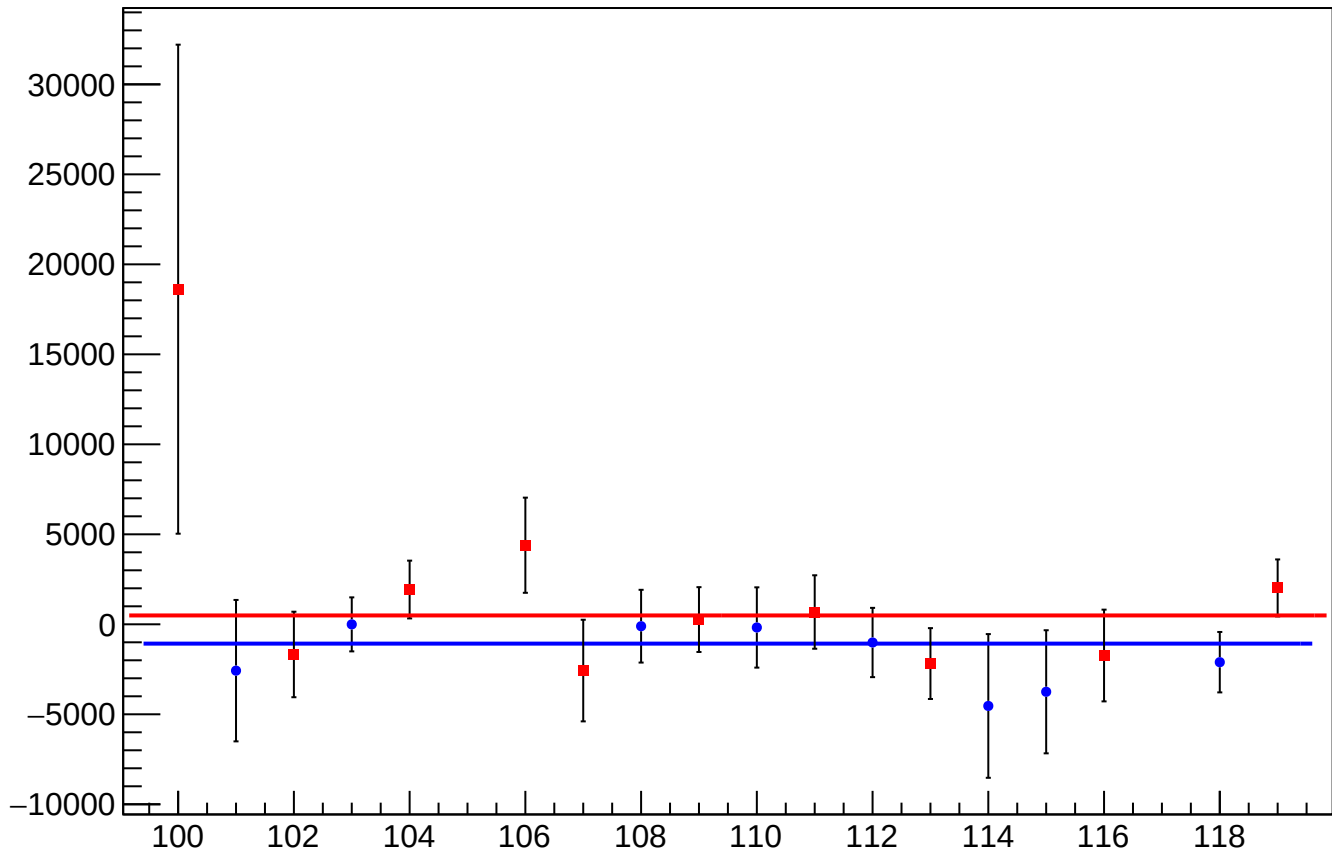
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 462.577+/-0.136  $\chi^2/\text{NDF}$ : 2470961.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -1073.568 $\pm$ 760.725  $\chi^2$ /NDF: 2.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 492.259 $\pm$ 674.299  $\chi^2$ /NDF: 10.3/9

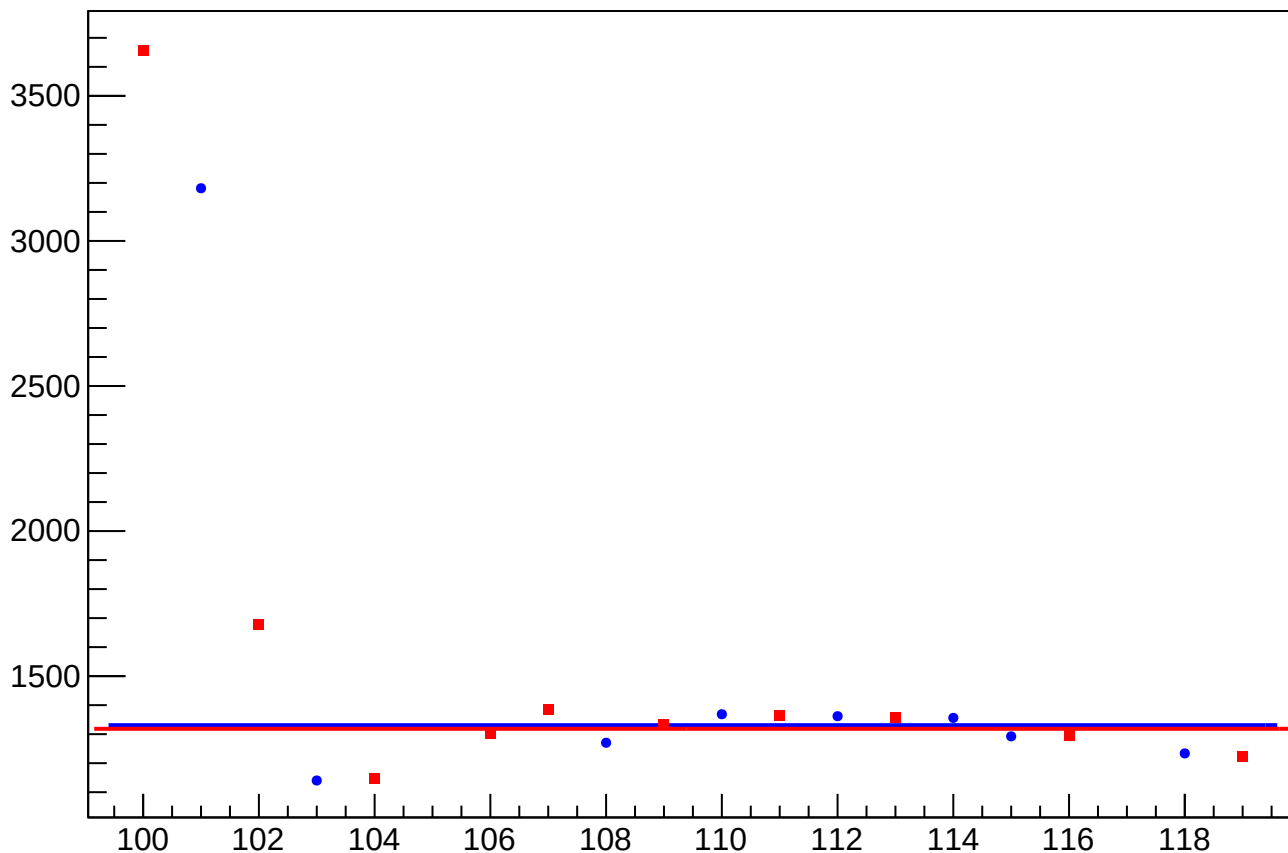
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -196.692 $\pm$ 504.603  $\chi^2$ /NDF: 15.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1331.009+/-0.538  $\chi^2/\text{NDF}$ : 486013.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1318.481+/-0.477  $\chi^2/\text{NDF}$ : 137799.1/9

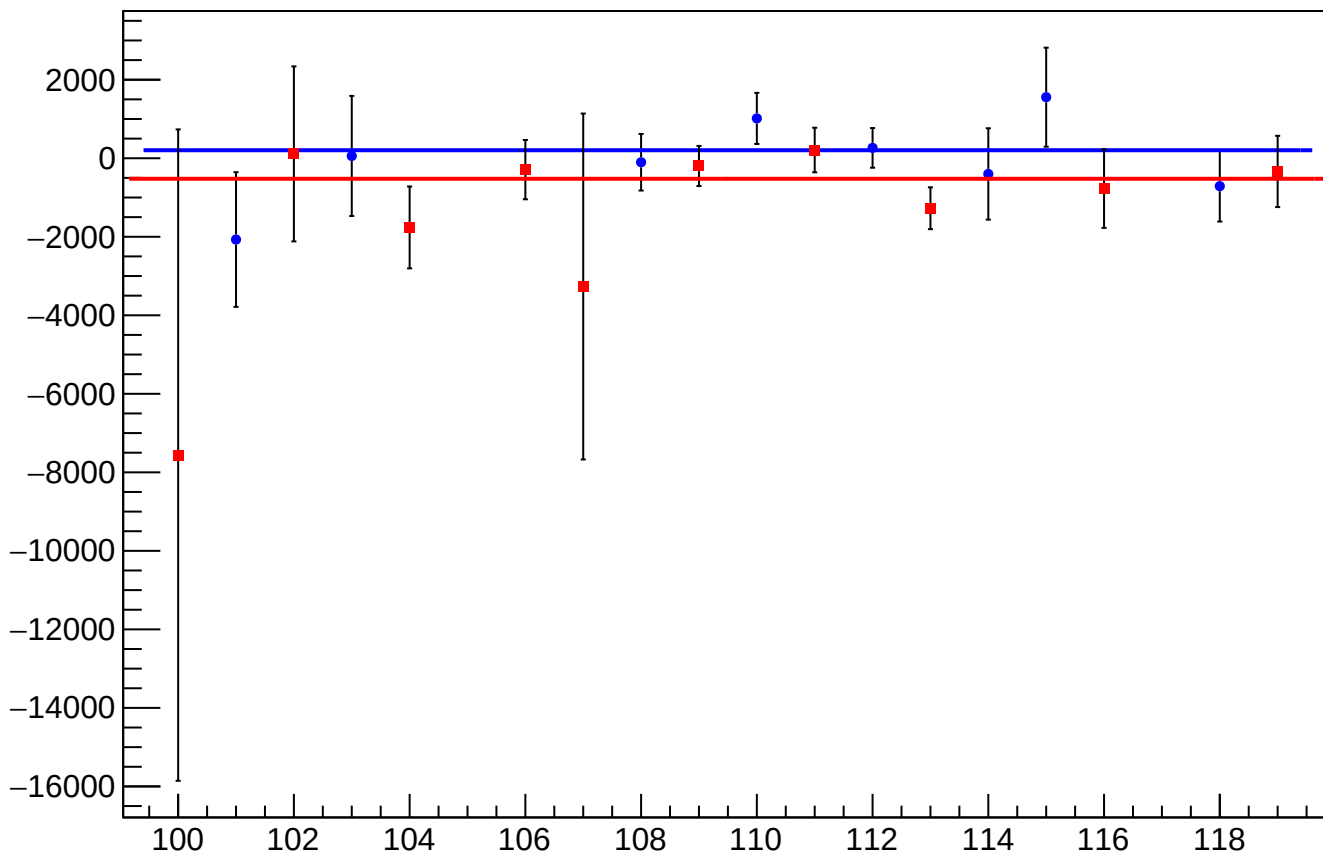
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1323.993+/-0.357  $\chi^2/\text{NDF}$ : 624116.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_cor\_correction\_mean vs Slug



Right In: 204.307 $\pm$ 294.088  $\chi^2$ /NDF: 6.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -522.569 $\pm$ 253.099  $\chi^2$ /NDF: 6.9/9

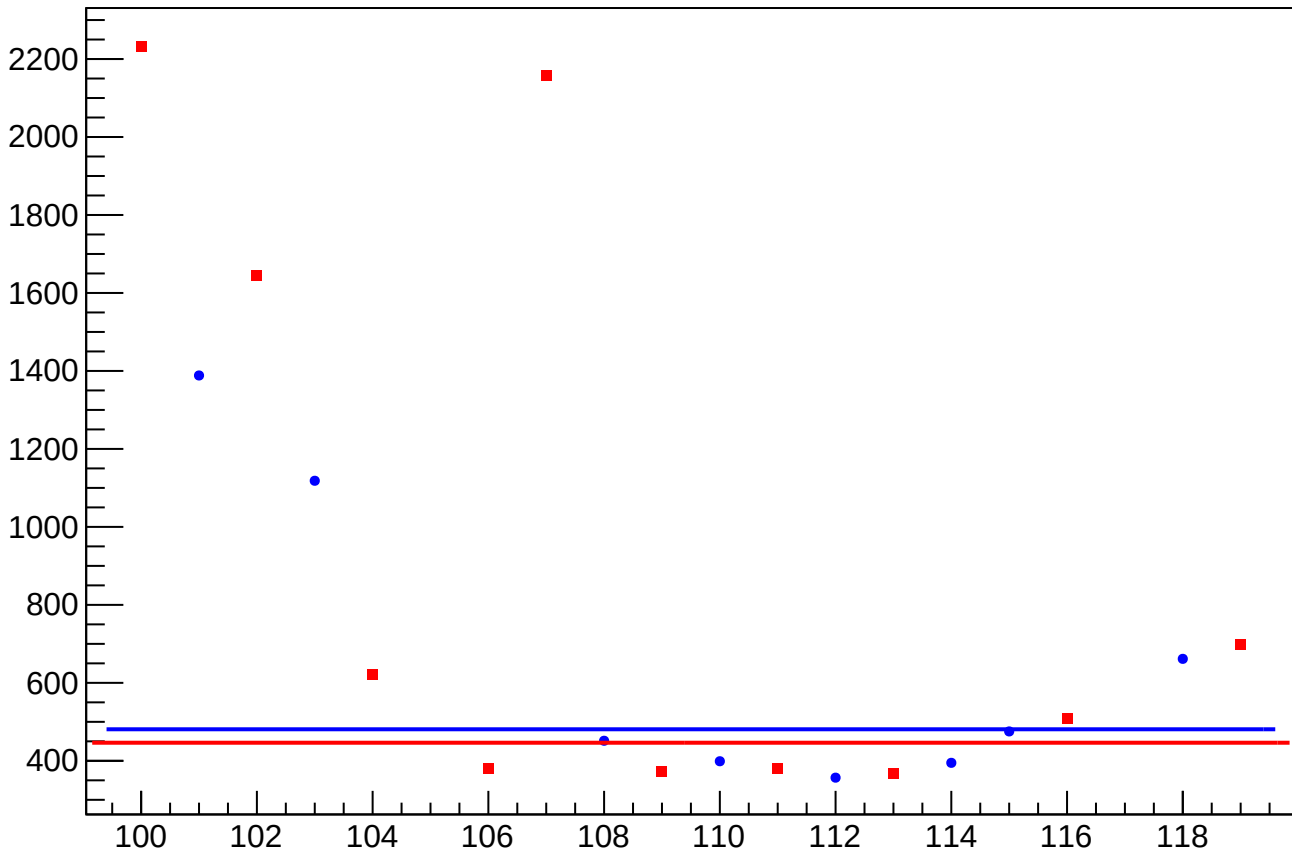
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -213.276 $\pm$ 191.837  $\chi^2$ /NDF: 16.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_cor\_correction\_rms vs Slug



Right In: 480.925+/-0.208  $\chi^2/\text{NDF}$ : 1153672.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 446.427+/-0.179  $\chi^2/\text{NDF}$ : 1322258.6/9

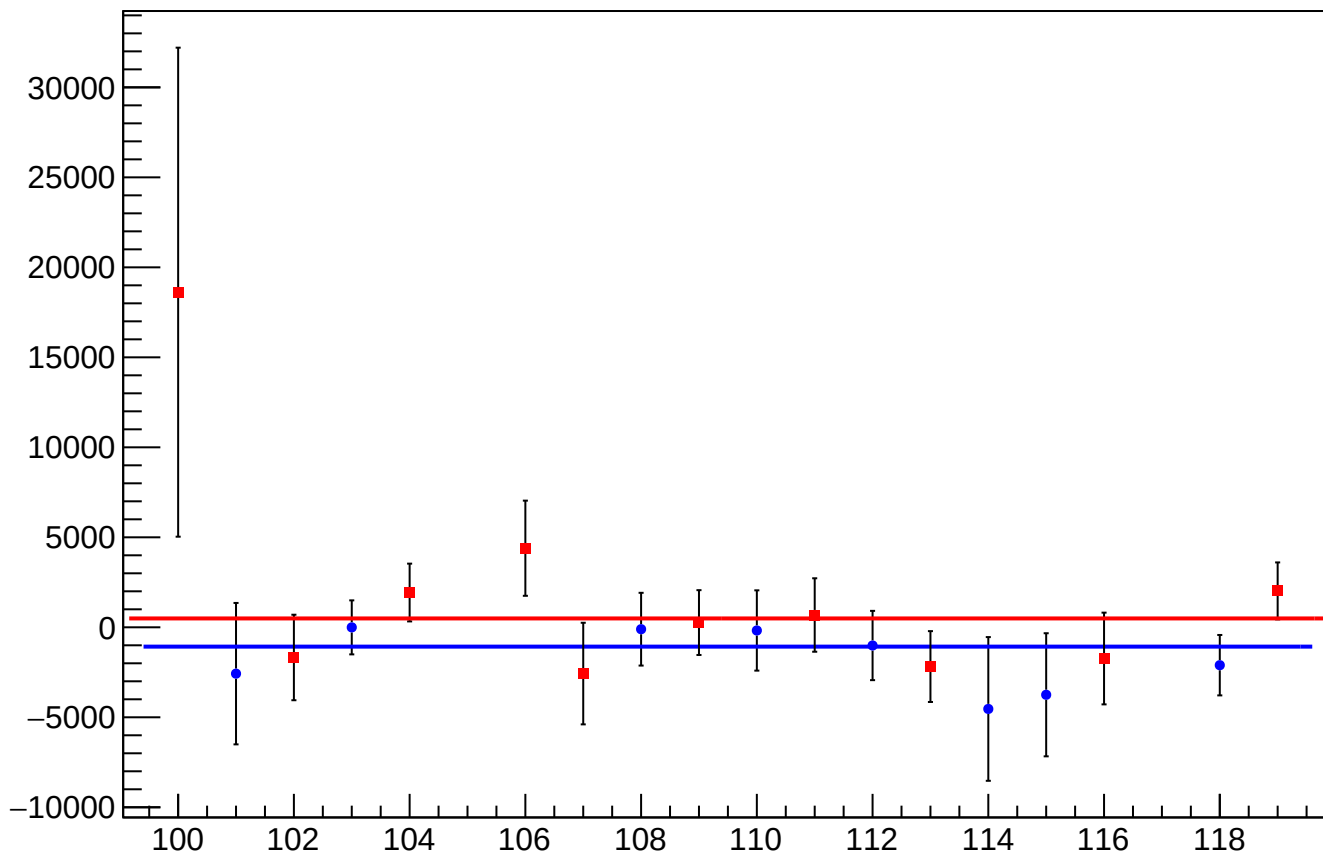
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 461.106+/-0.136  $\chi^2/\text{NDF}$ : 2491741.2/17

- 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: -1073.568 $\pm$ 760.725  $\chi^2$ /NDF: 2.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 492.259 $\pm$ 674.299  $\chi^2$ /NDF: 10.3/9

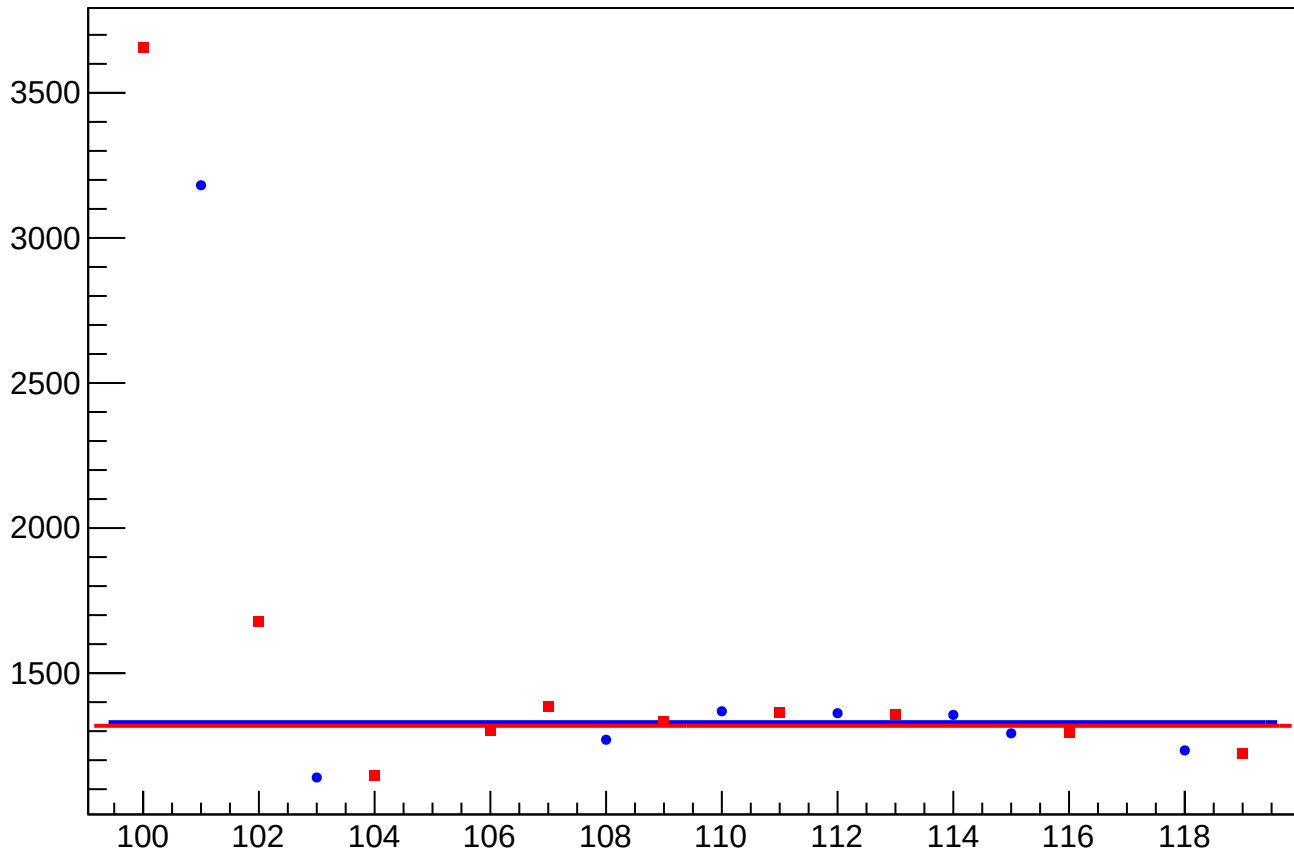
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -196.692 $\pm$ 504.603  $\chi^2$ /NDF: 15.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1331.009+/-0.538  $\chi^2/\text{NDF}$ : 486013.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1318.481+/-0.477  $\chi^2/\text{NDF}$ : 137799.1/9

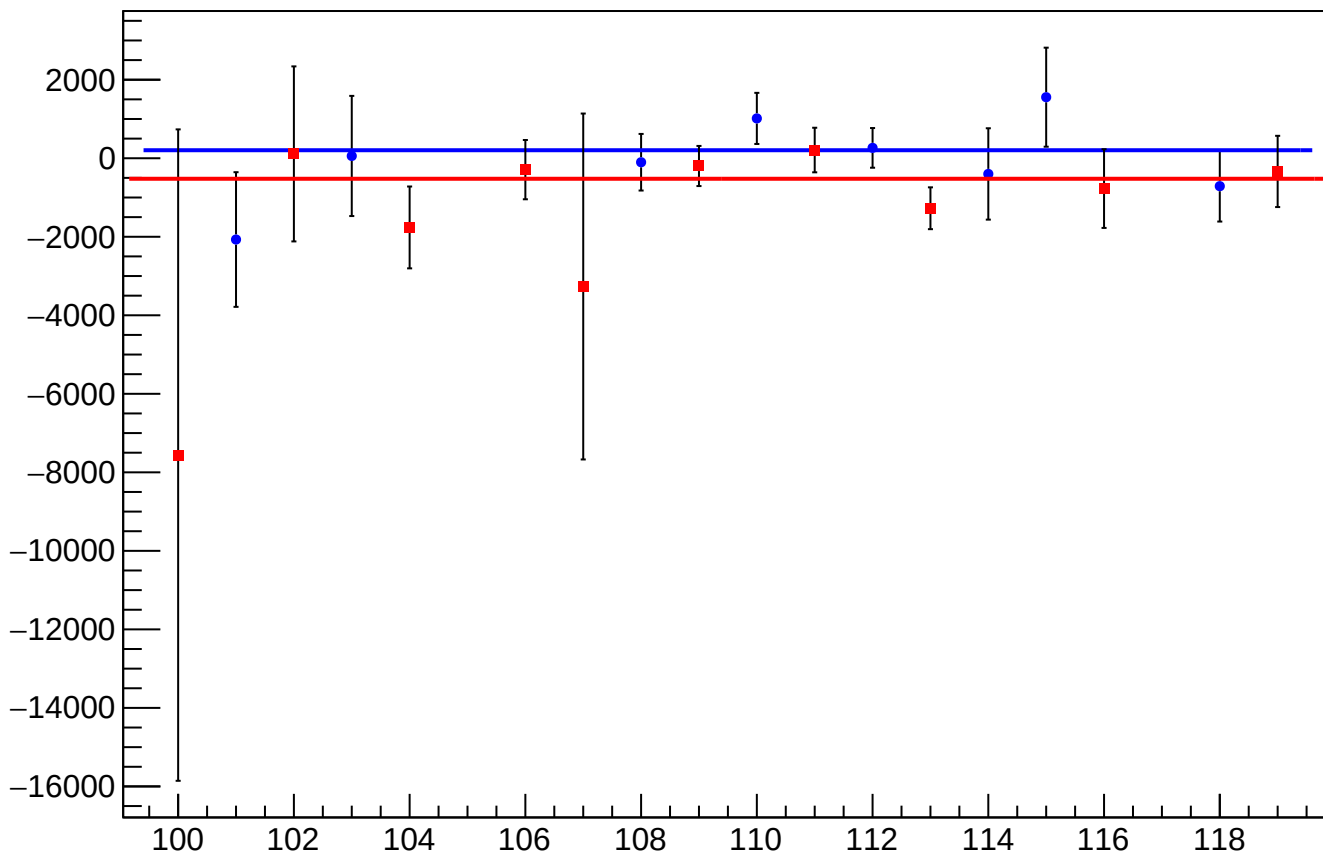
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1323.993+/-0.357  $\chi^2/\text{NDF}$ : 624116.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 204.307+/-294.088  $\chi^2/\text{NDF}$ : 6.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -522.569+/-253.099  $\chi^2/\text{NDF}$ : 6.9/9

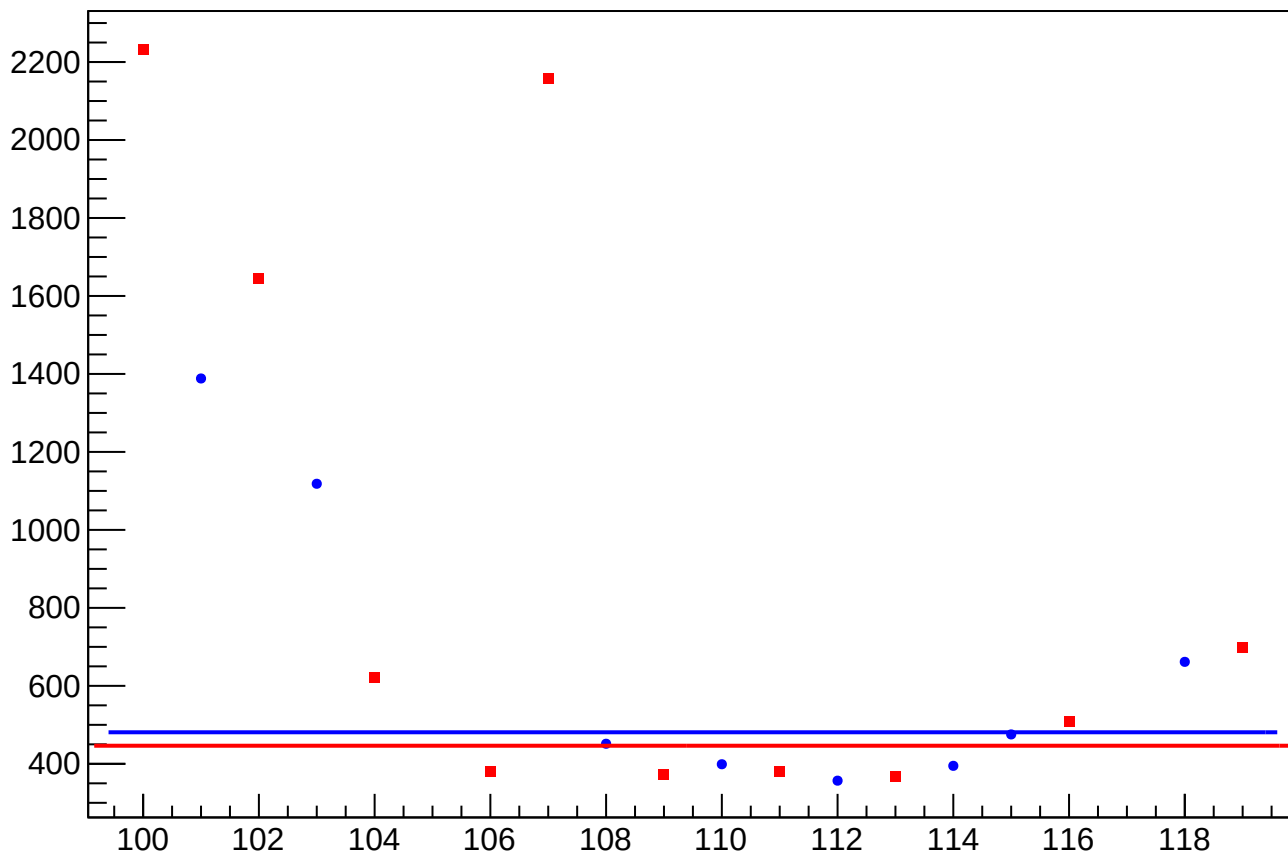
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -213.276+/-191.837  $\chi^2/\text{NDF}$ : 16.3/17

- 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: 480.925+/-0.208  $\chi^2/\text{NDF}$ : 1153672.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 446.427+/-0.179  $\chi^2/\text{NDF}$ : 1322258.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

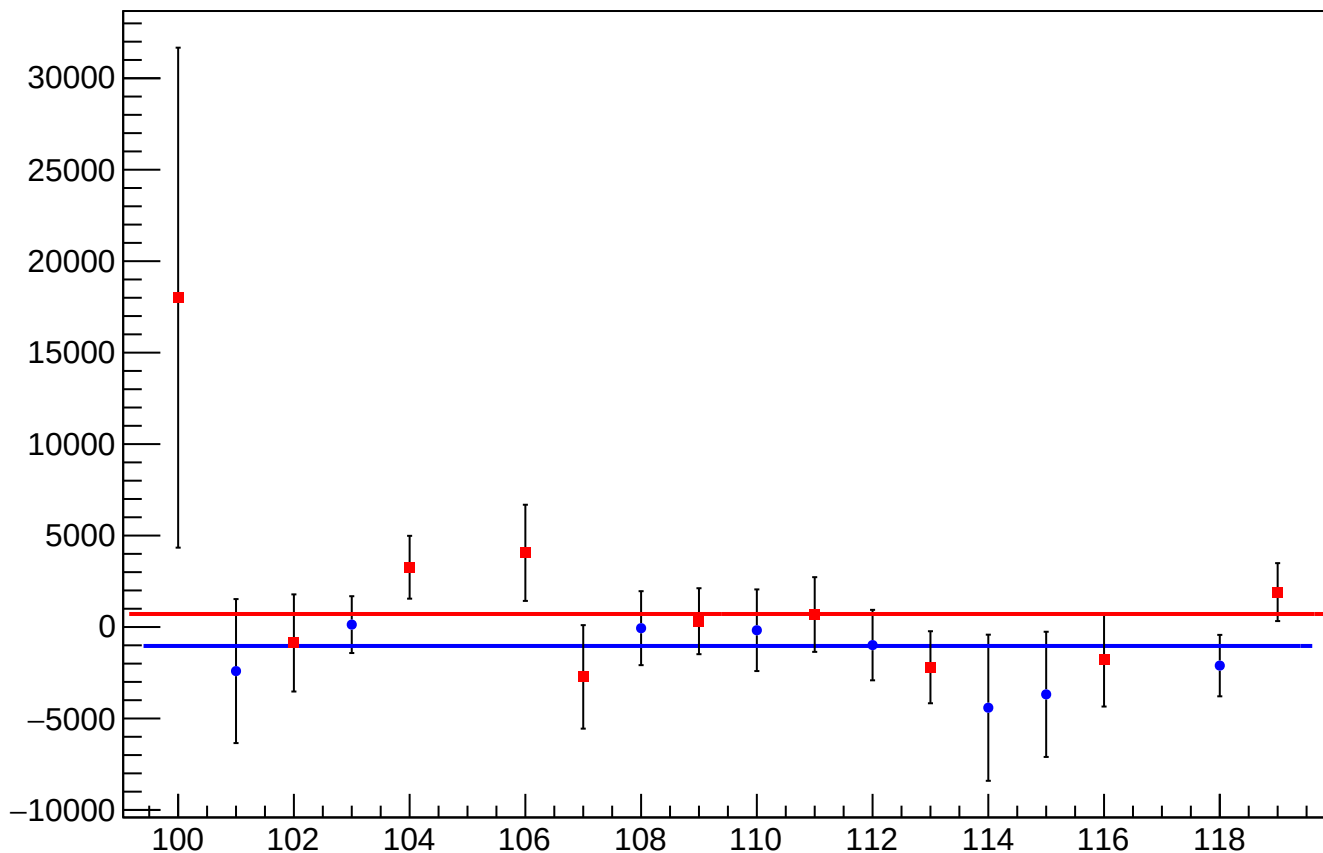
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 461.106+/-0.136  $\chi^2/\text{NDF}$ : 2491741.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -1034.889+/-767.690  $\chi^2/\text{NDF}$ : 2.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 712.913+/-687.821  $\chi^2/\text{NDF}$ : 11.0/9

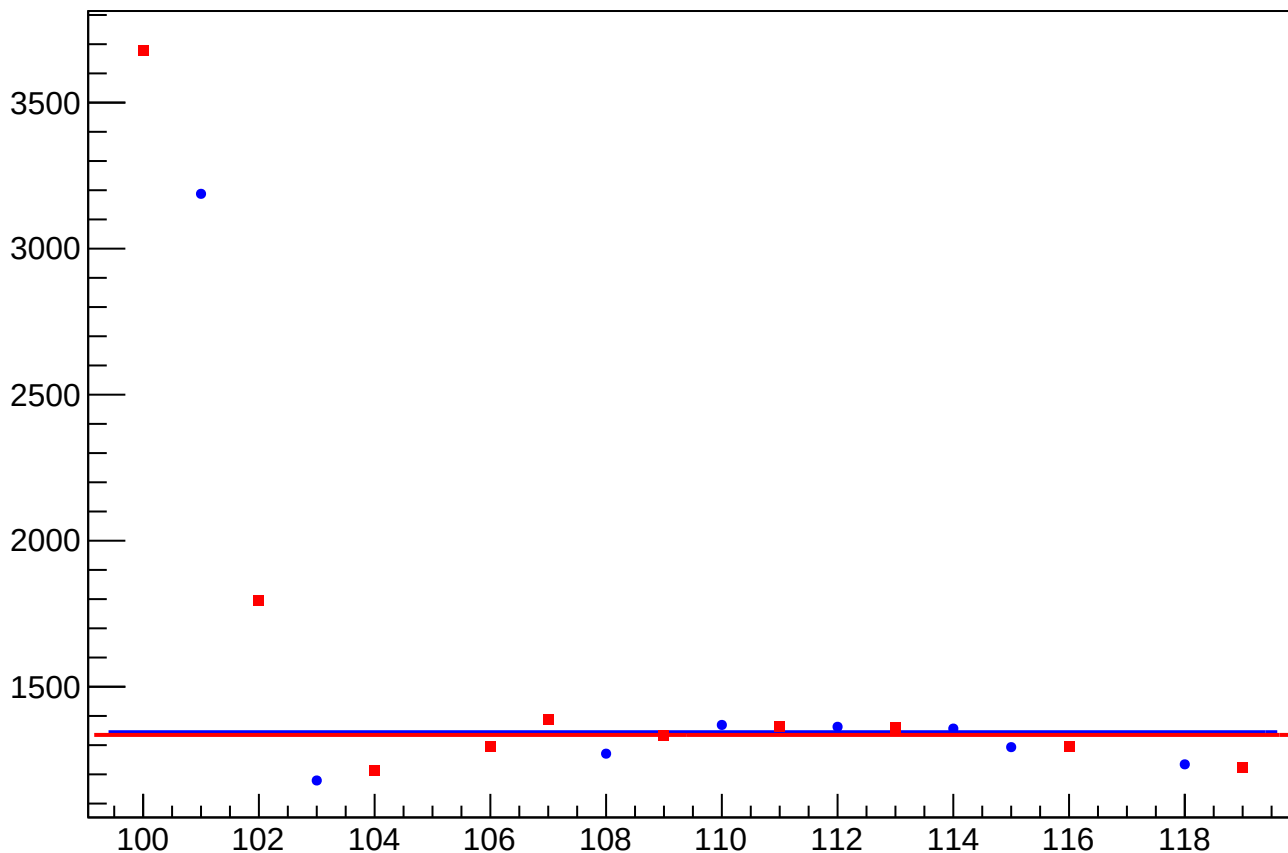
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -65.367+/-512.281  $\chi^2/\text{NDF}$ : 16.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1344.263+/-0.543  $\chi^2/\text{NDF}$ : 473389.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1335.059+/-0.486  $\chi^2/\text{NDF}$ : 141156.1/9

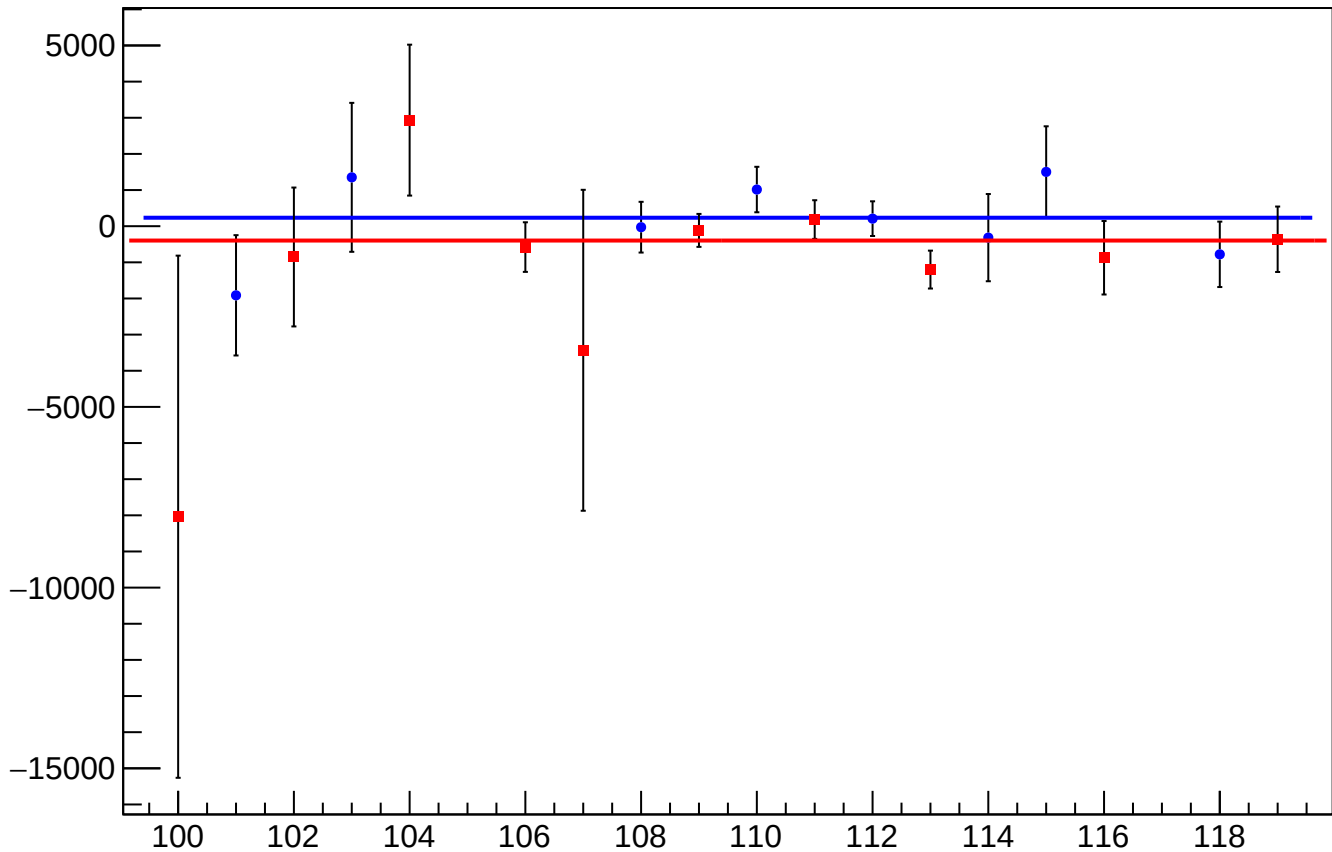
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1339.158+/-0.362  $\chi^2/\text{NDF}$ : 614705.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_dit\_correction\_mean vs Slug



Right In: 234.126+/-288.247  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -397.178+/-243.806  $\chi^2/\text{NDF}$ : 8.4/9

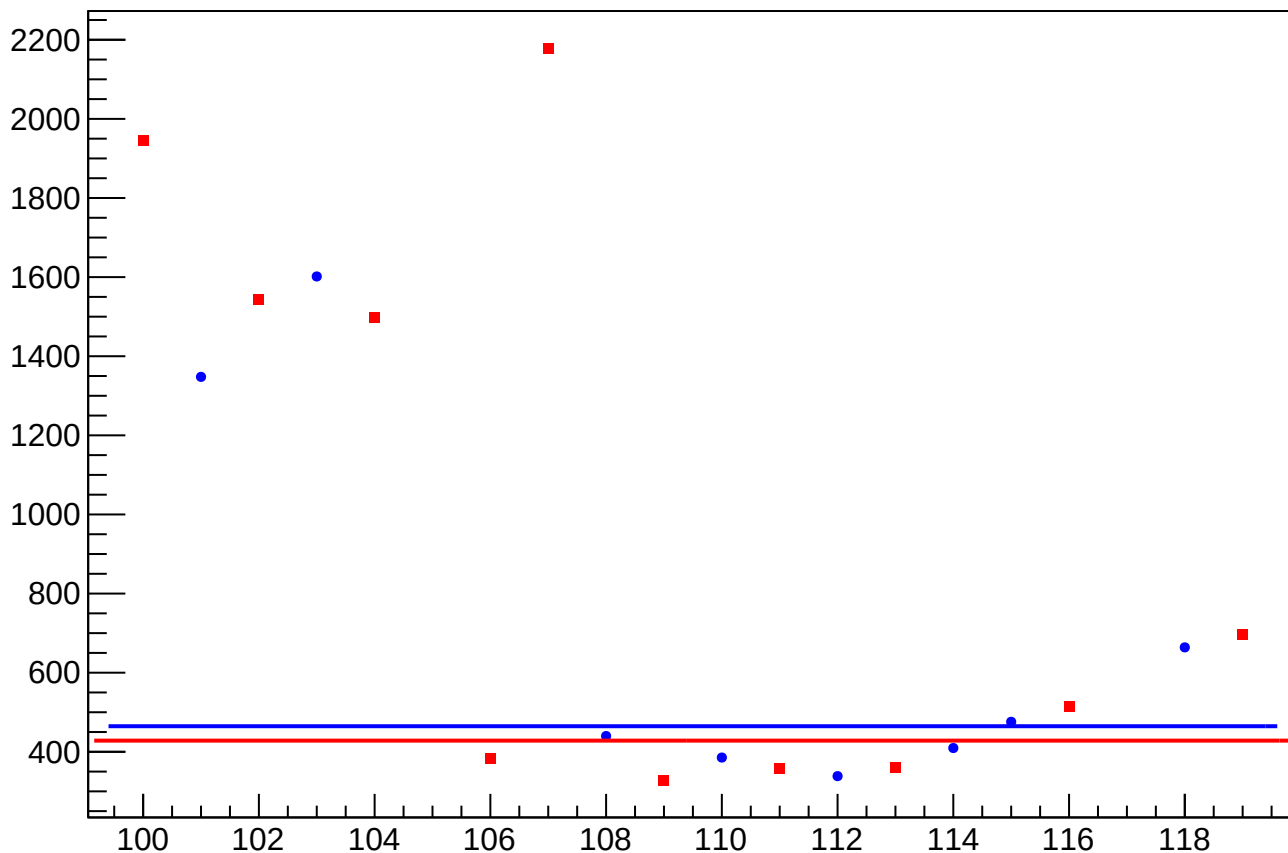
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -133.892+/-186.149  $\chi^2/\text{NDF}$ : 17.3/17

- 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: 464.680 $\pm$ 0.204  $\chi^2$ /NDF: 1445937.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 428.276 $\pm$ 0.172  $\chi^2$ /NDF: 1964489.5/9

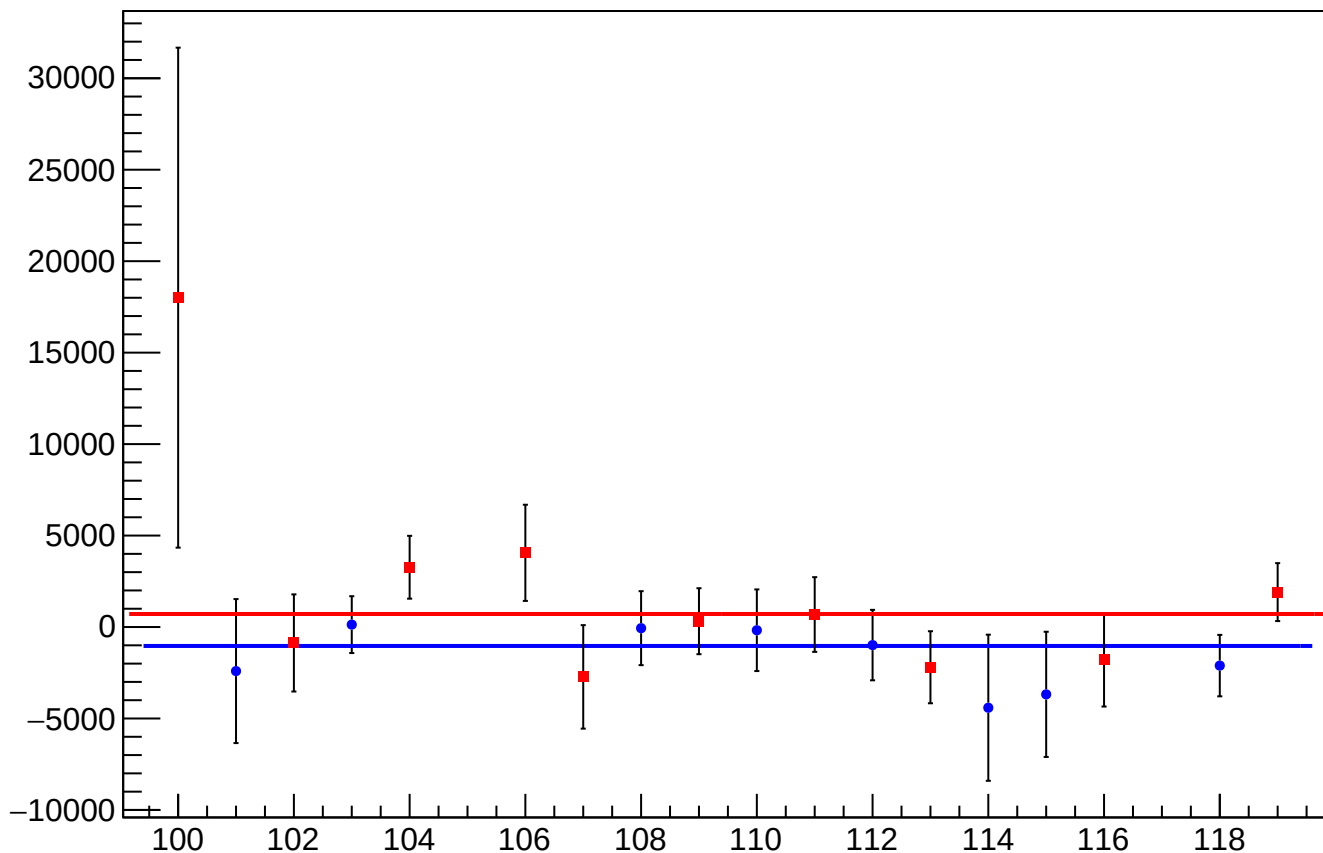
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 443.458 $\pm$ 0.132  $\chi^2$ /NDF: 3429023.8/17

- 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: -1034.887 $\pm$ 767.690  $\chi^2$ /NDF: 2.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 712.914 $\pm$ 687.821  $\chi^2$ /NDF: 11.0/9

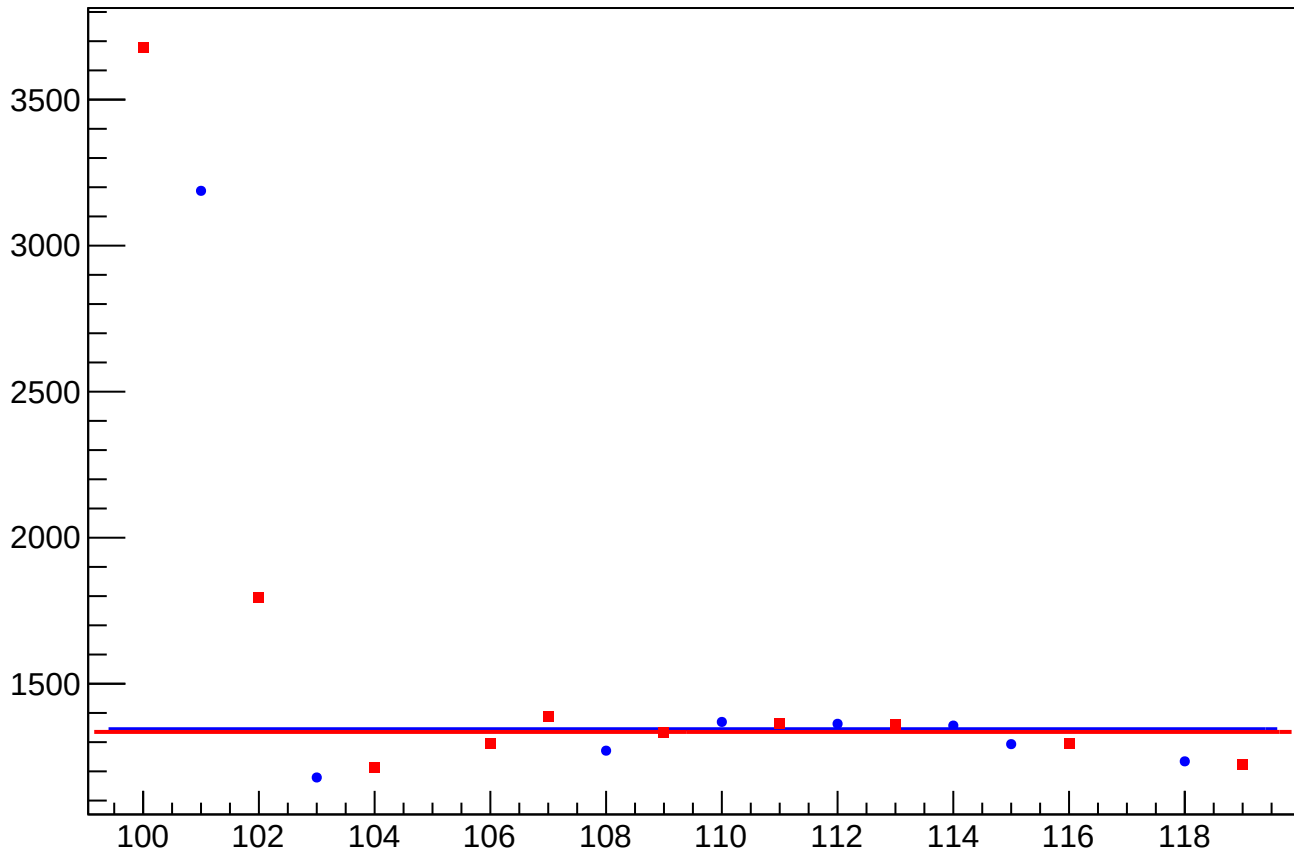
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -65.366 $\pm$ 512.281  $\chi^2$ /NDF: 16.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1344.263+/-0.543  $\chi^2/\text{NDF}$ : 473389.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1335.059+/-0.486  $\chi^2/\text{NDF}$ : 141156.2/9

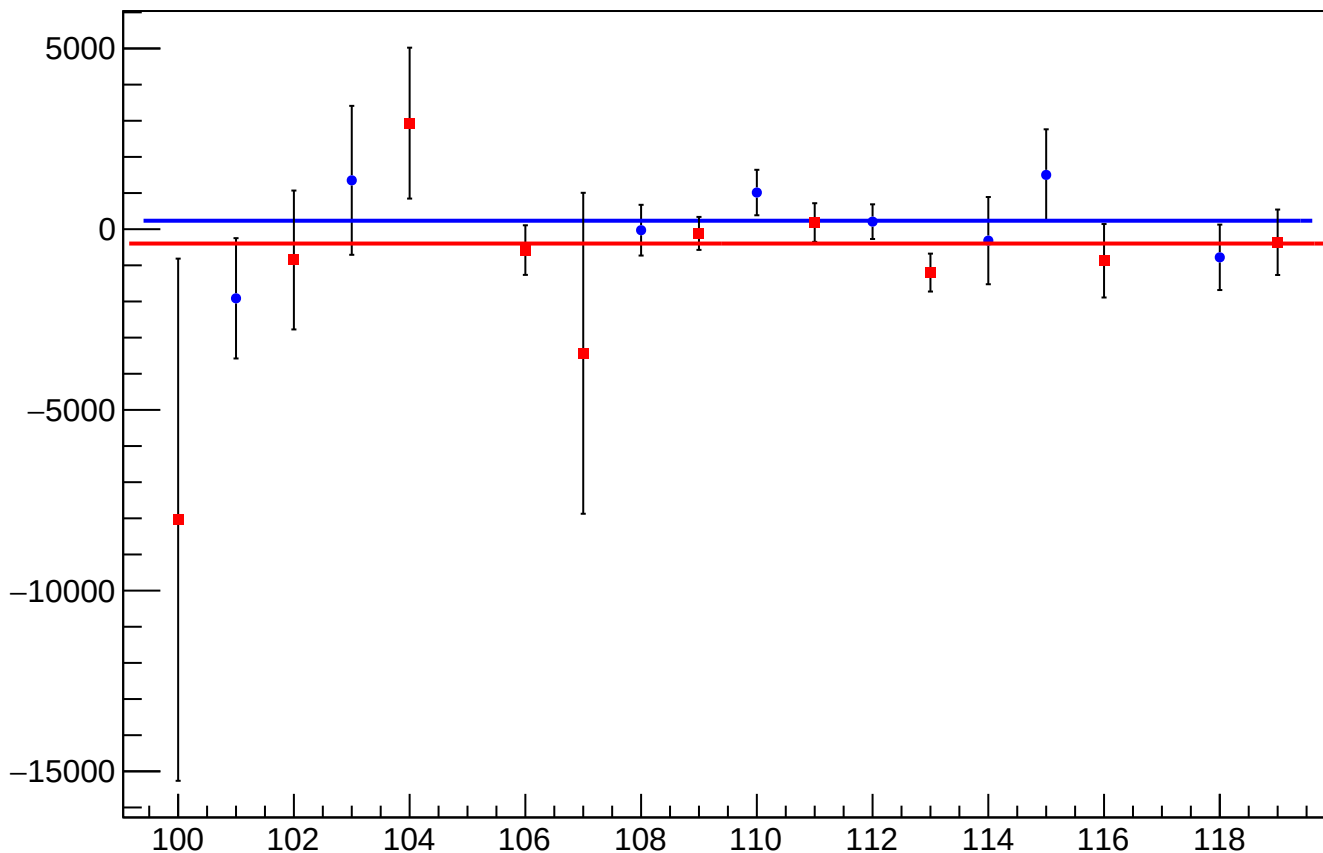
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1339.158+/-0.362  $\chi^2/\text{NDF}$ : 614705.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 234.126 $\pm$ 288.246  $\chi^2$ /NDF: 6.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -397.177 $\pm$ 243.806  $\chi^2$ /NDF: 8.4/9

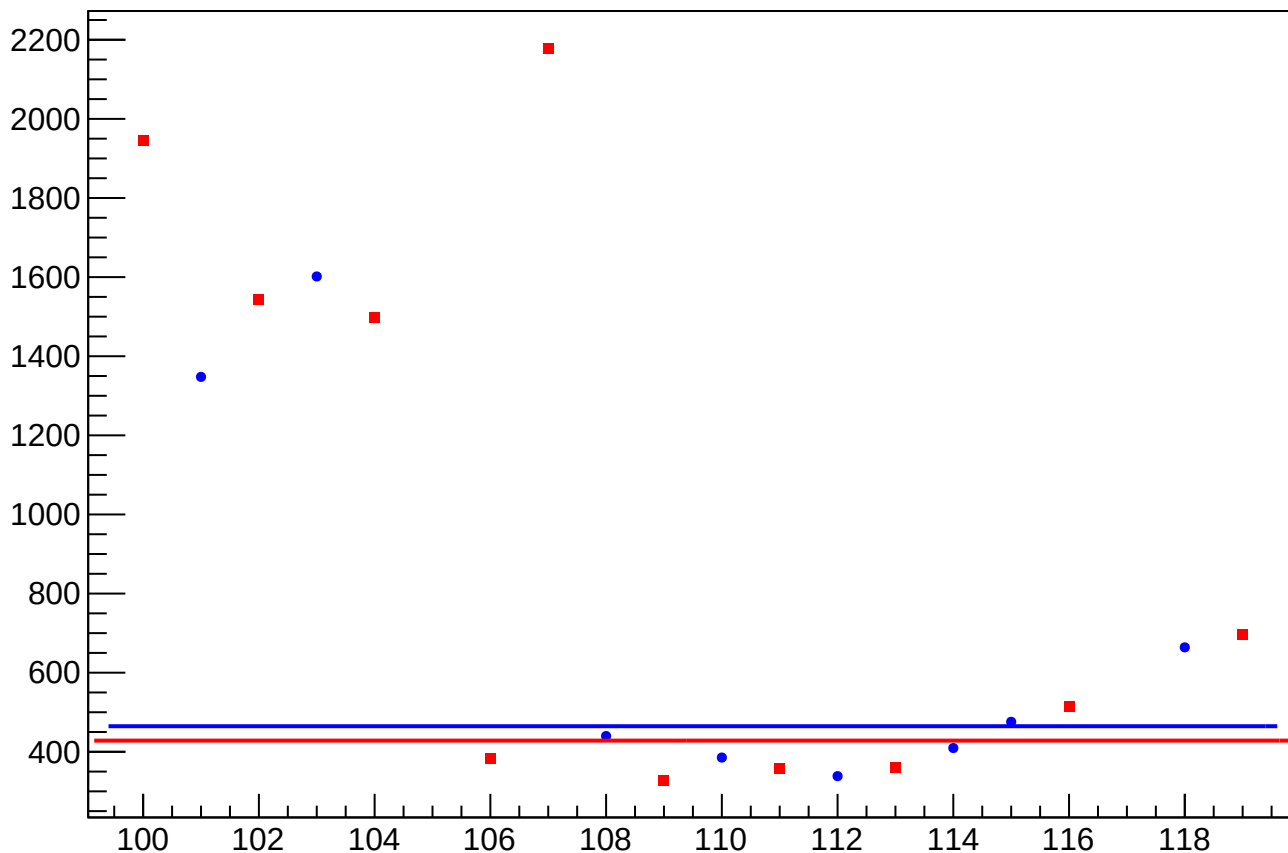
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -133.890 $\pm$ 186.148  $\chi^2$ /NDF: 17.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 464.677 $\pm$ 0.204  $\chi^2$ /NDF: 1445943.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 428.274 $\pm$ 0.172  $\chi^2$ /NDF: 1964499.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

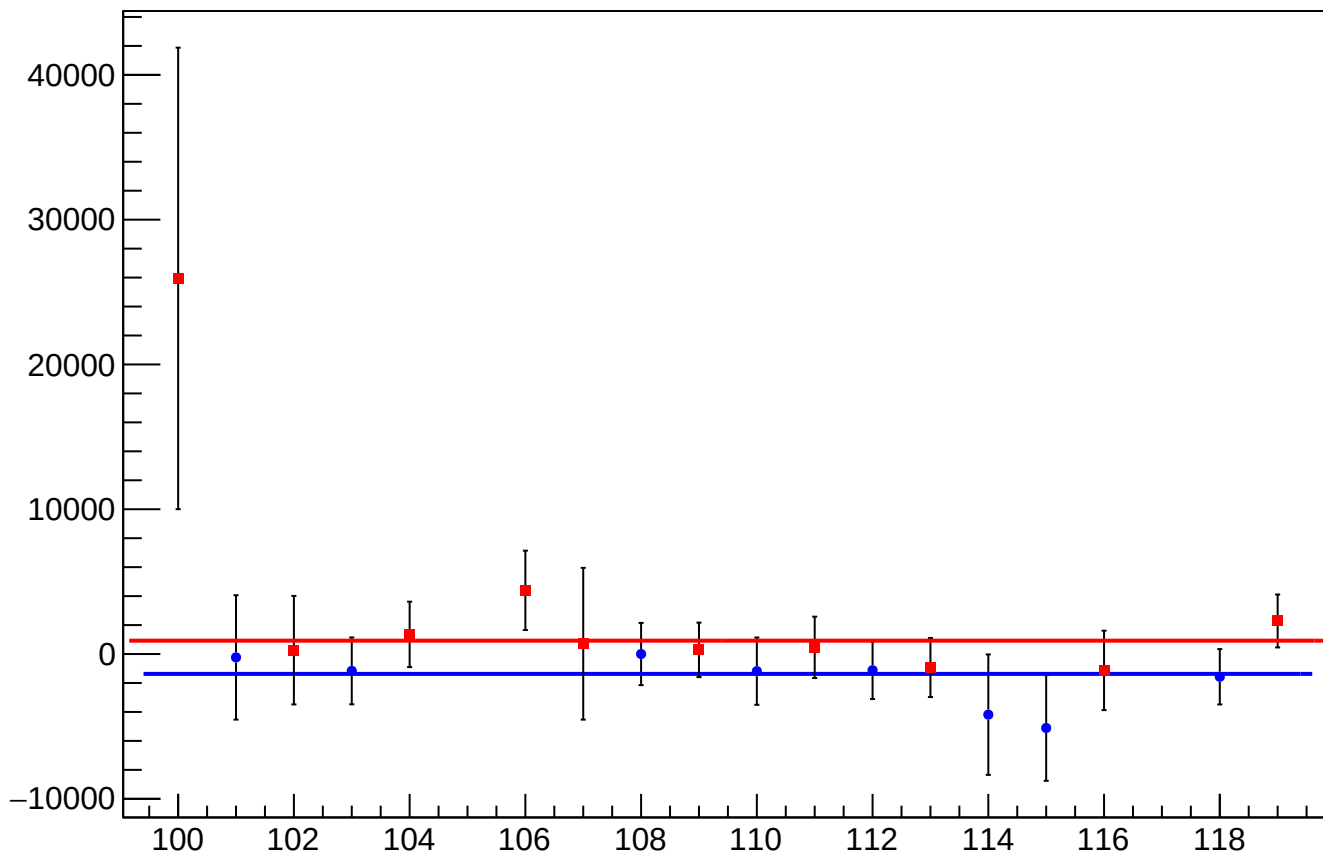
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 443.456 $\pm$ 0.132  $\chi^2$ /NDF: 3429038.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -1372.007 $\pm$ 876.328  $\chi^2$ /NDF: 2.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 922.444 $\pm$ 786.069  $\chi^2$ /NDF: 6.2/9

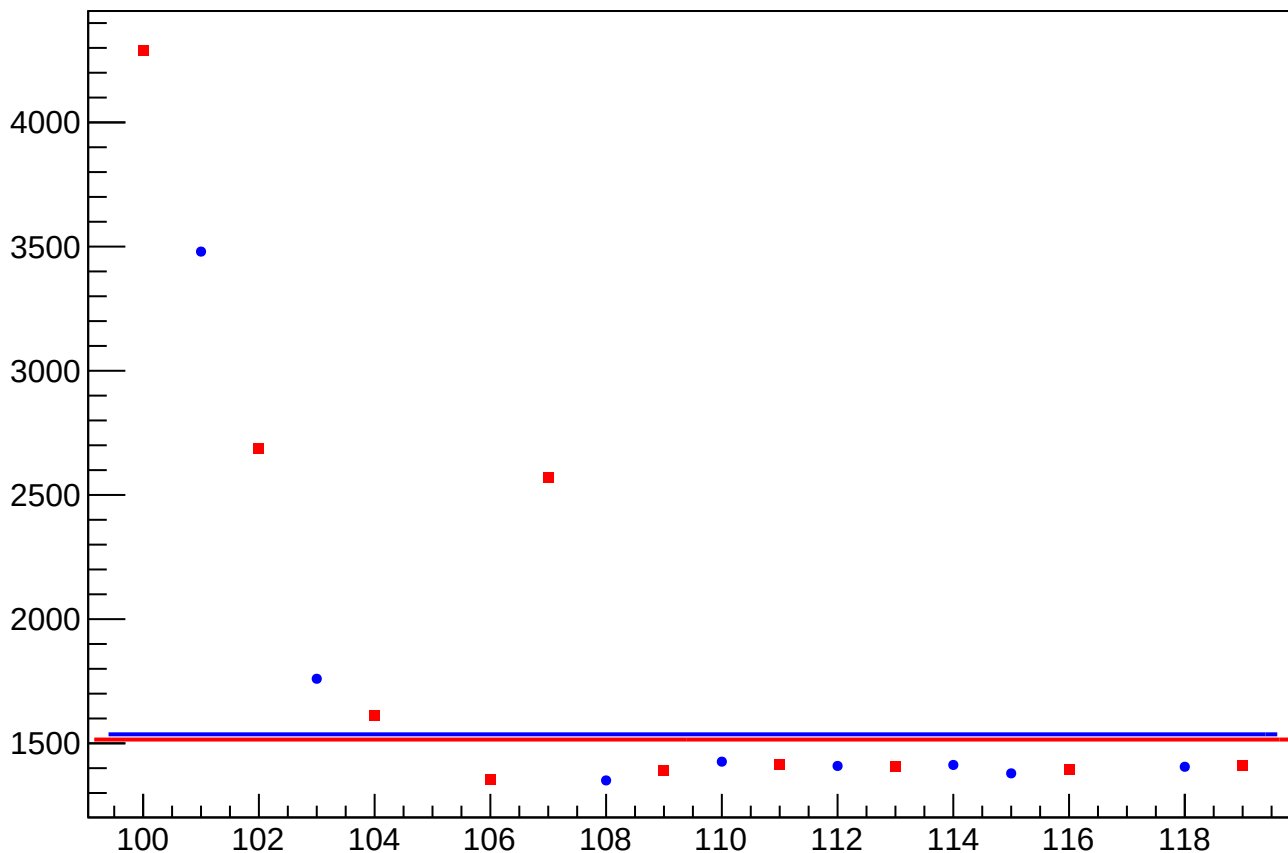
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -100.572 $\pm$ 585.152  $\chi^2$ /NDF: 12.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1536.228+/-0.620  $\chi^2/\text{NDF}$ : 470629.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1515.224+/-0.556  $\chi^2/\text{NDF}$ : 376520.8/9

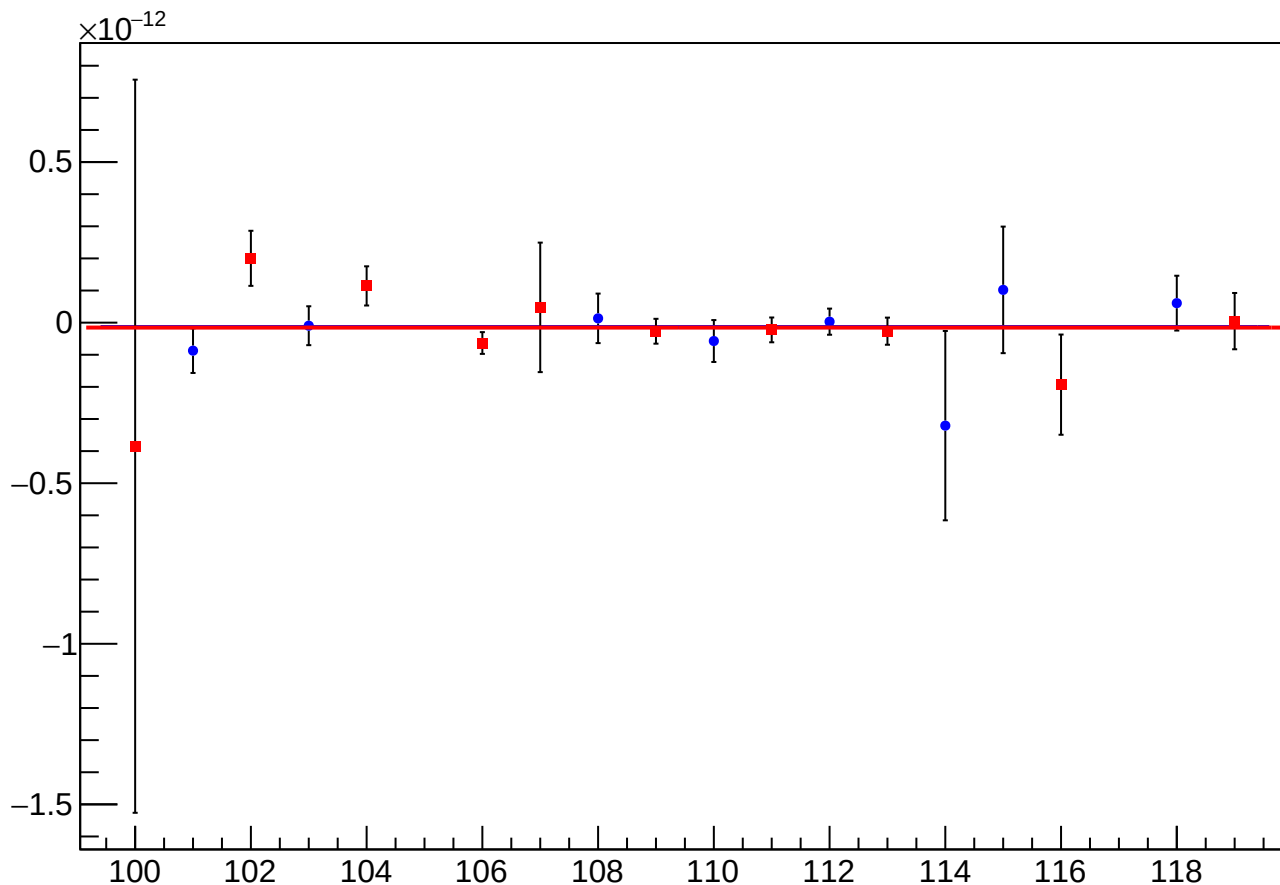
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1524.589+/-0.414  $\chi^2/\text{NDF}$ : 847787.2/17

- 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  $\chi^2$ /NDF: 4.1/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 14.6/9

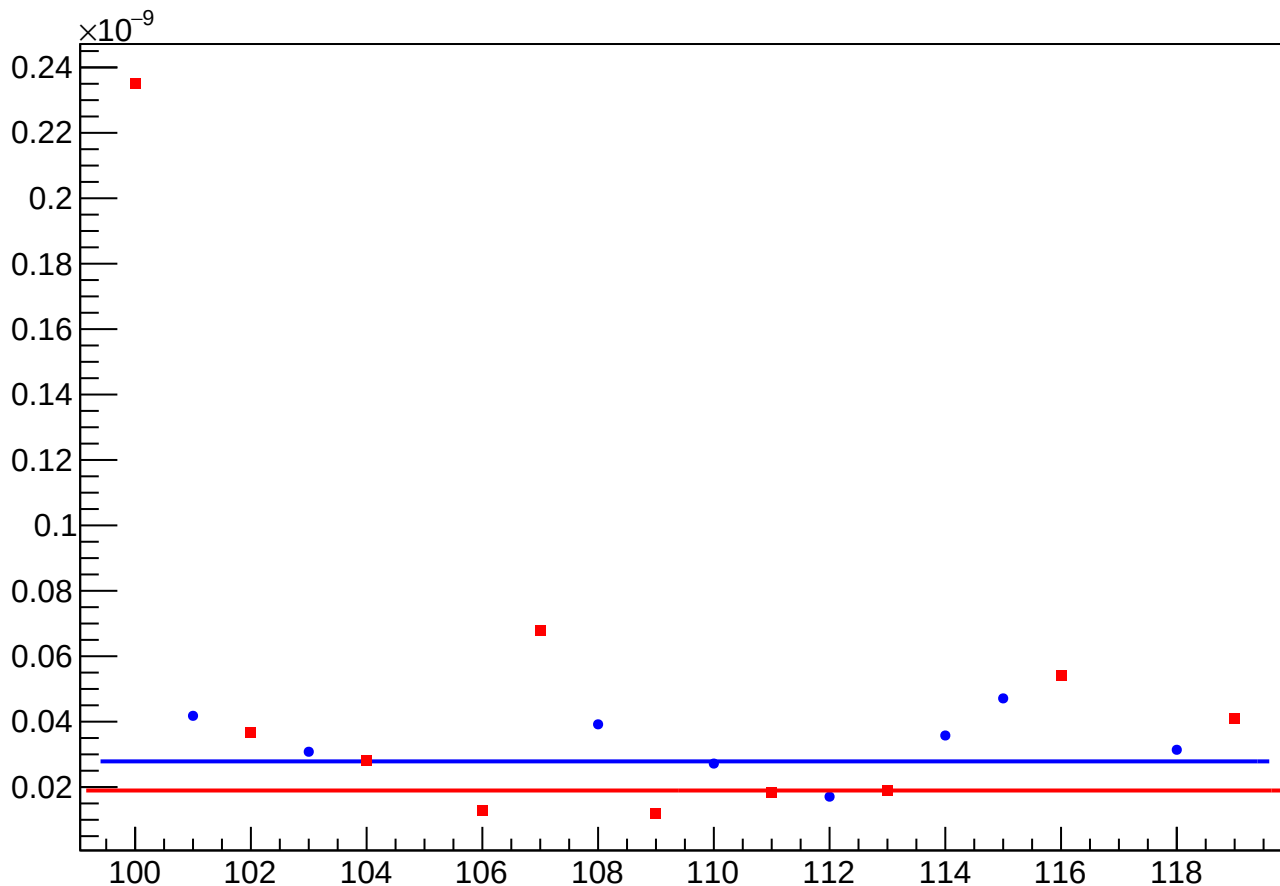
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 18.7/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 292980.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 683711.7/9

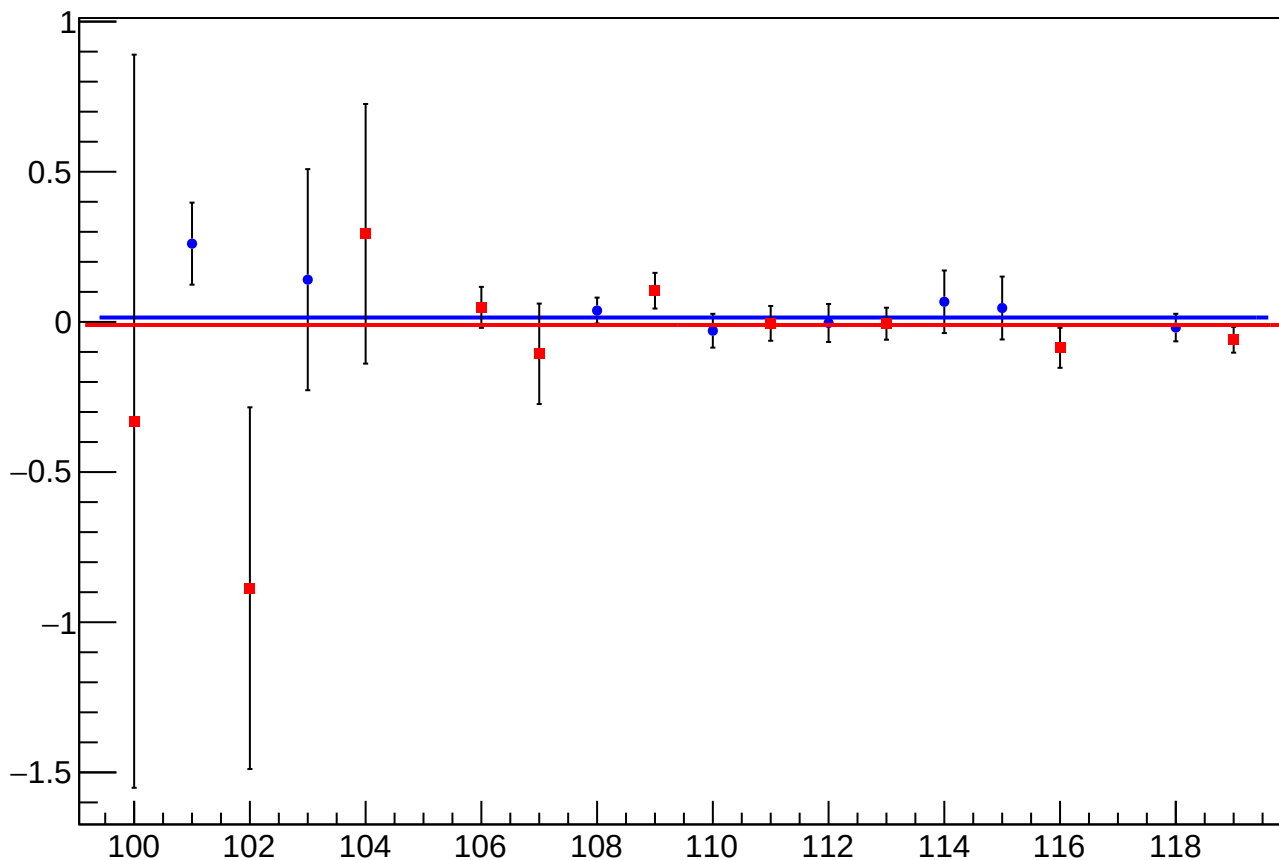
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1153181.0/17

- 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: 0.015 $\pm$ 0.023  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.010 $\pm$ 0.023  $\chi^2$ /NDF: 10.1/9

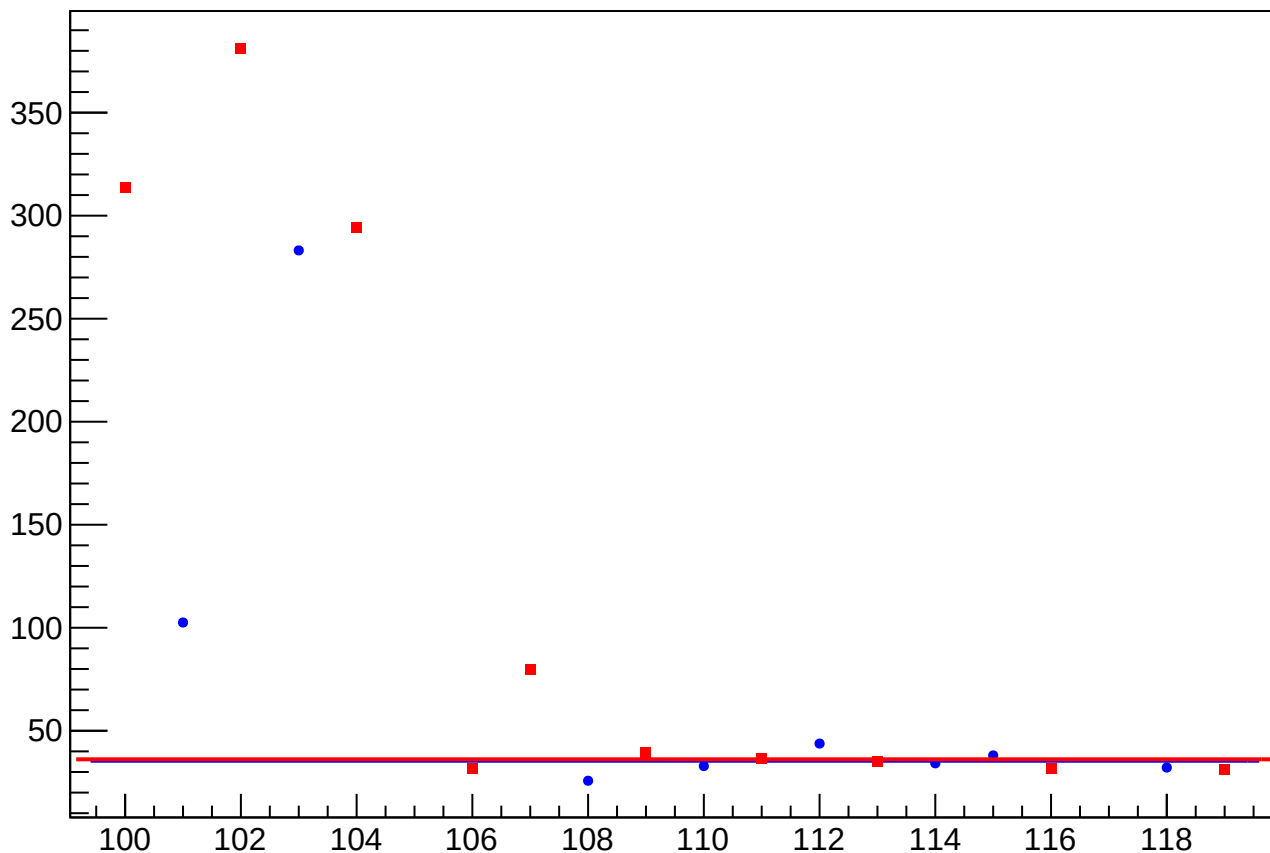
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.016  $\chi^2$ /NDF: 15.9/17

- 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: 35.468+/-0.017  $\chi^2/\text{NDF}$ : 1539779.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.153+/-0.016  $\chi^2/\text{NDF}$ : 1659955.7/9

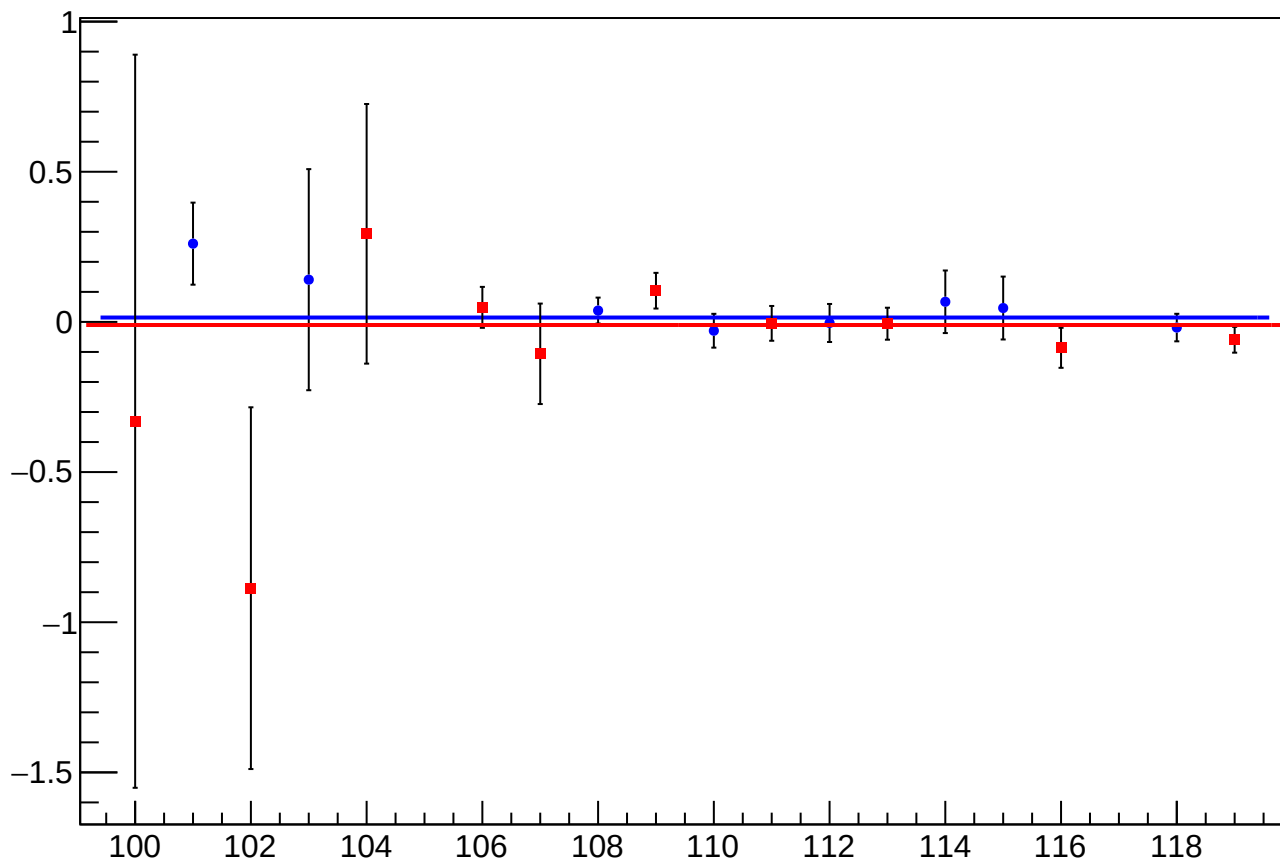
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.823+/-0.011  $\chi^2/\text{NDF}$ : 3200620.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.015 $\pm$ 0.023  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.010 $\pm$ 0.023  $\chi^2$ /NDF: 10.1/9

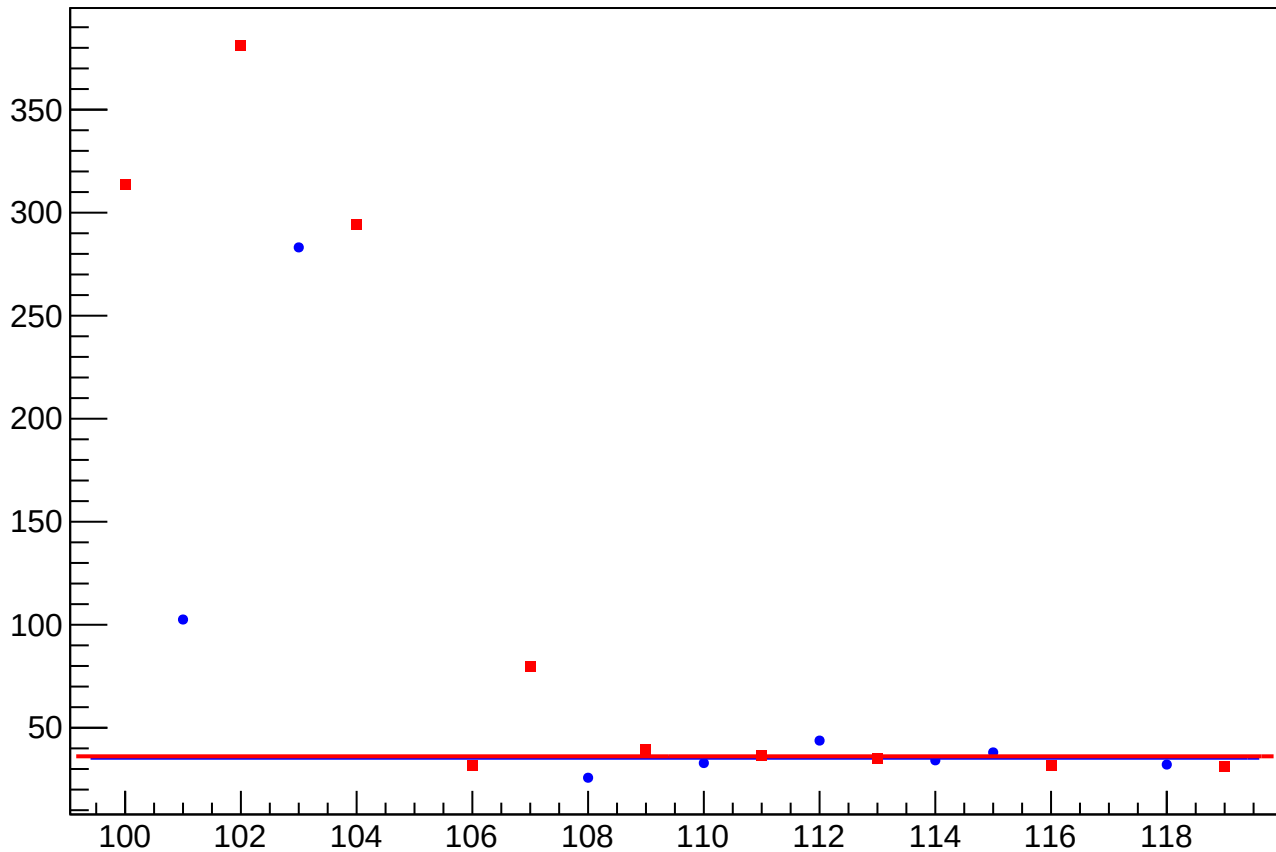
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.016  $\chi^2$ /NDF: 15.9/17

- 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: 35.468+/-0.017  $\chi^2/\text{NDF}$ : 1539779.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.153+/-0.016  $\chi^2/\text{NDF}$ : 1659955.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

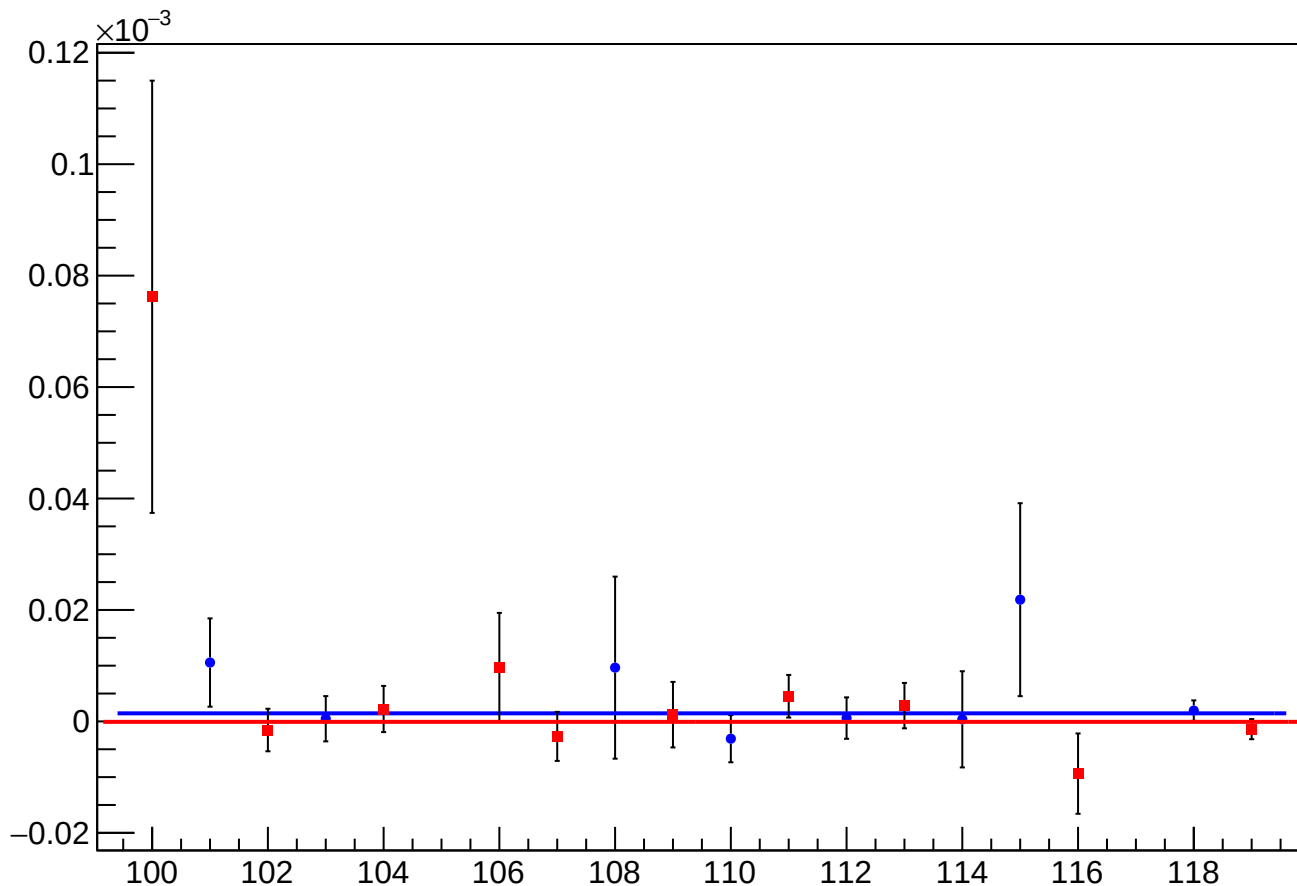
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.823+/-0.011  $\chi^2/\text{NDF}$ : 3200620.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.9/9

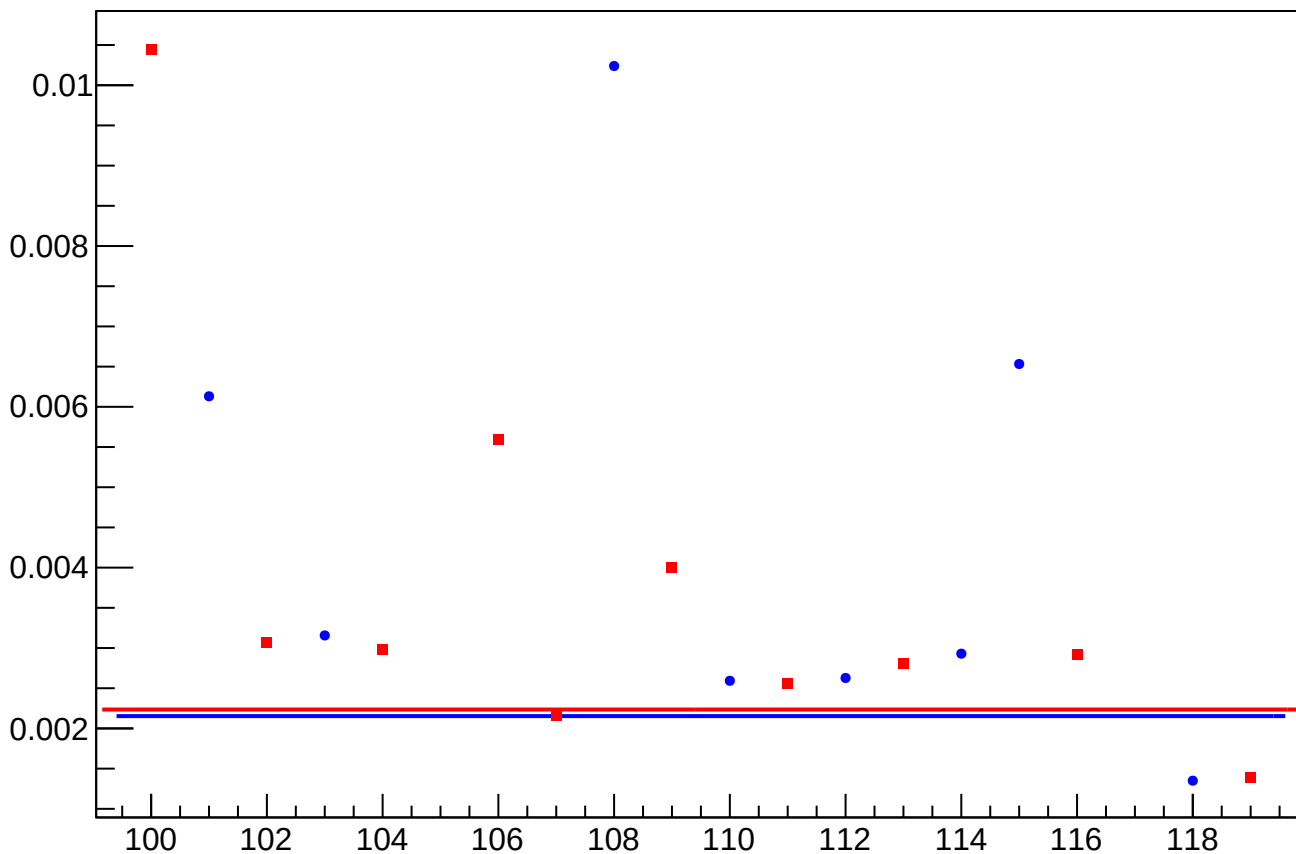
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1697518.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1172900.2/9

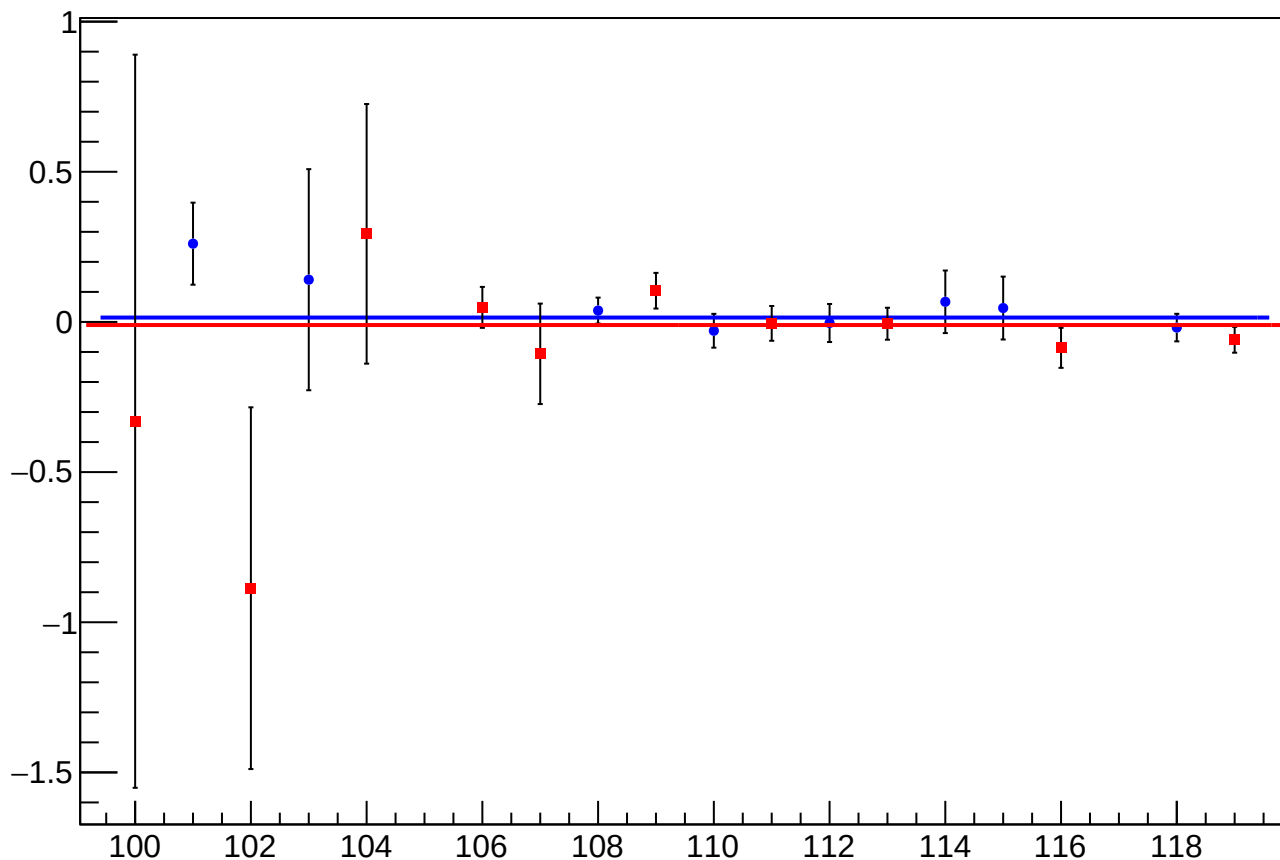
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2874361.3/17

- 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: 0.015 $\pm$ 0.023  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.010 $\pm$ 0.023  $\chi^2$ /NDF: 10.1/9

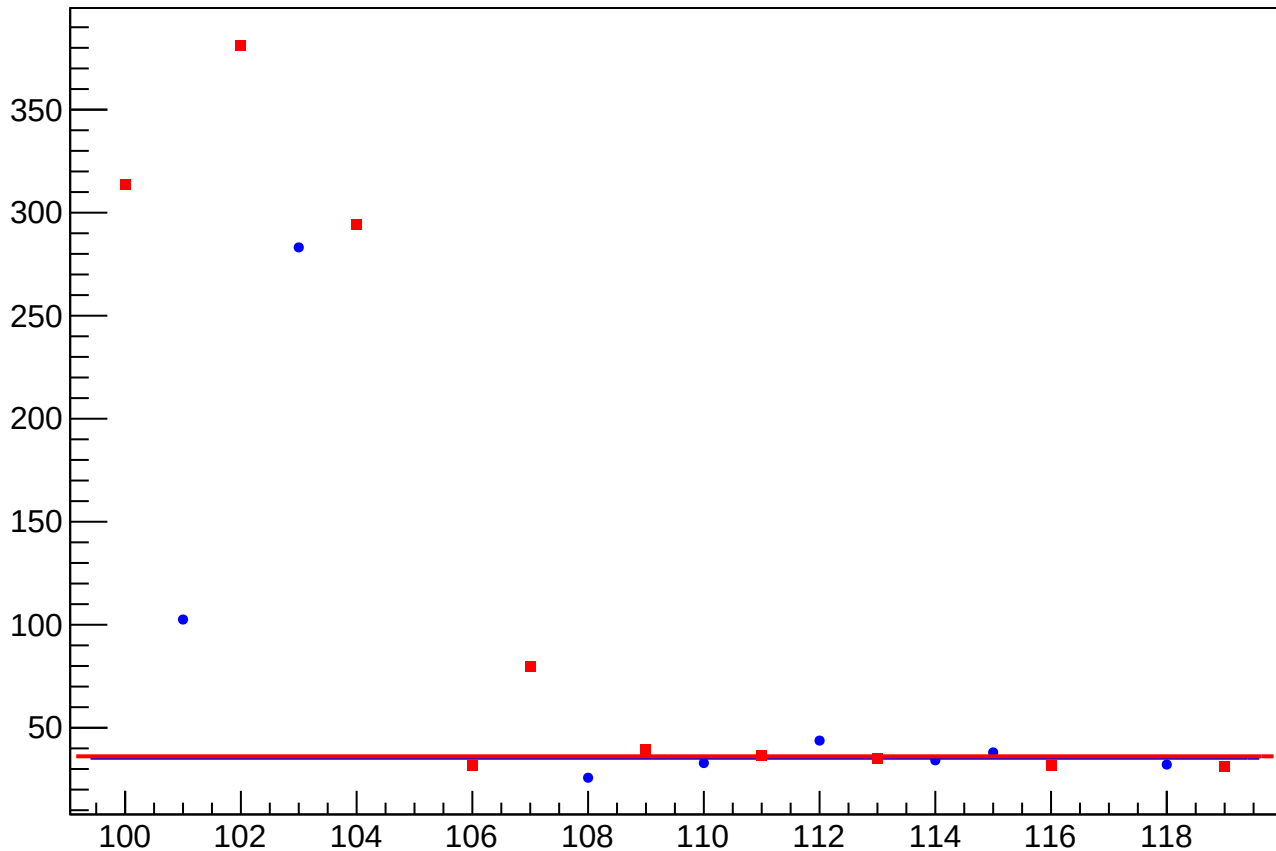
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.016  $\chi^2$ /NDF: 15.9/17

- 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: 35.470+/-0.017  $\chi^2/\text{NDF}$ : 1539711.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.153+/-0.016  $\chi^2/\text{NDF}$ : 1659958.4/9

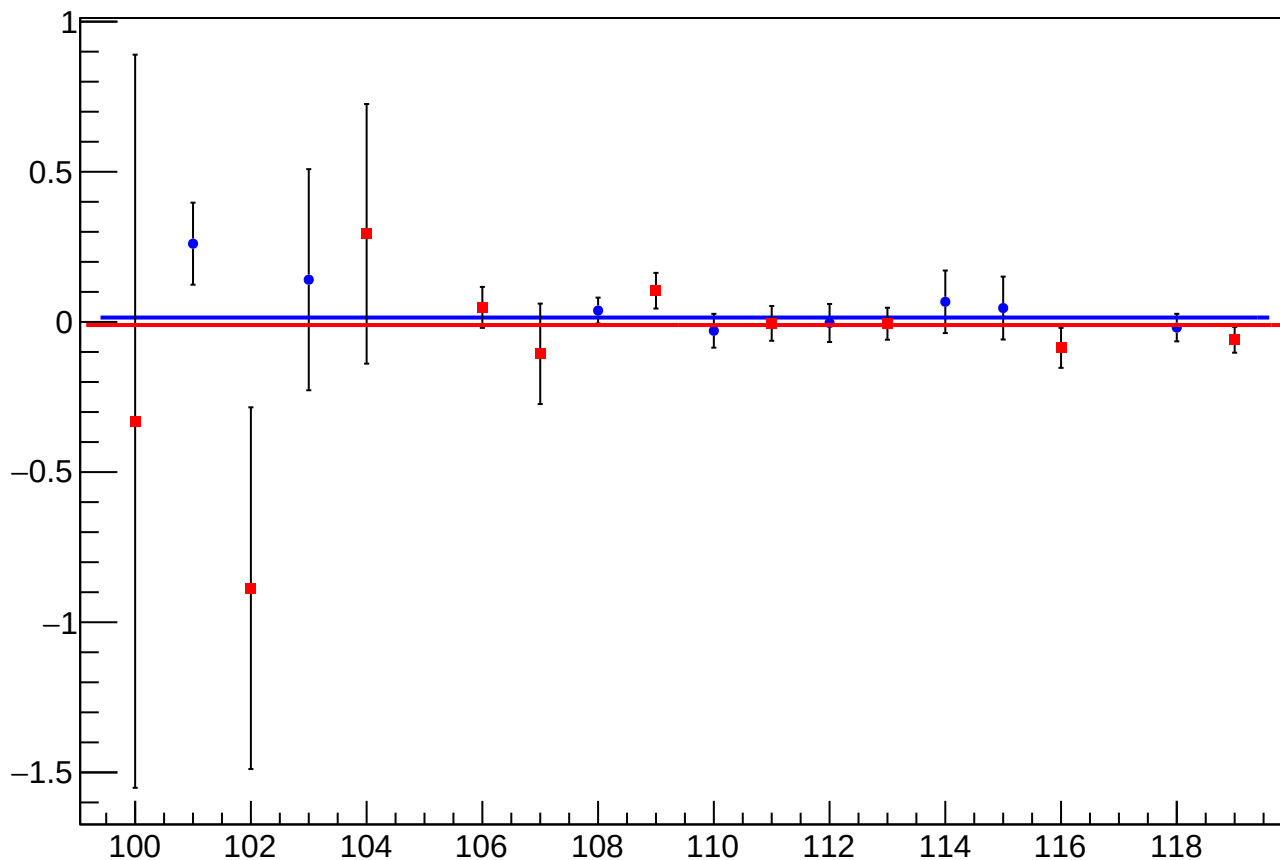
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.824+/-0.011  $\chi^2/\text{NDF}$ : 3200552.3/17

- 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: 0.015 $\pm$ 0.023  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.010 $\pm$ 0.023  $\chi^2$ /NDF: 10.1/9

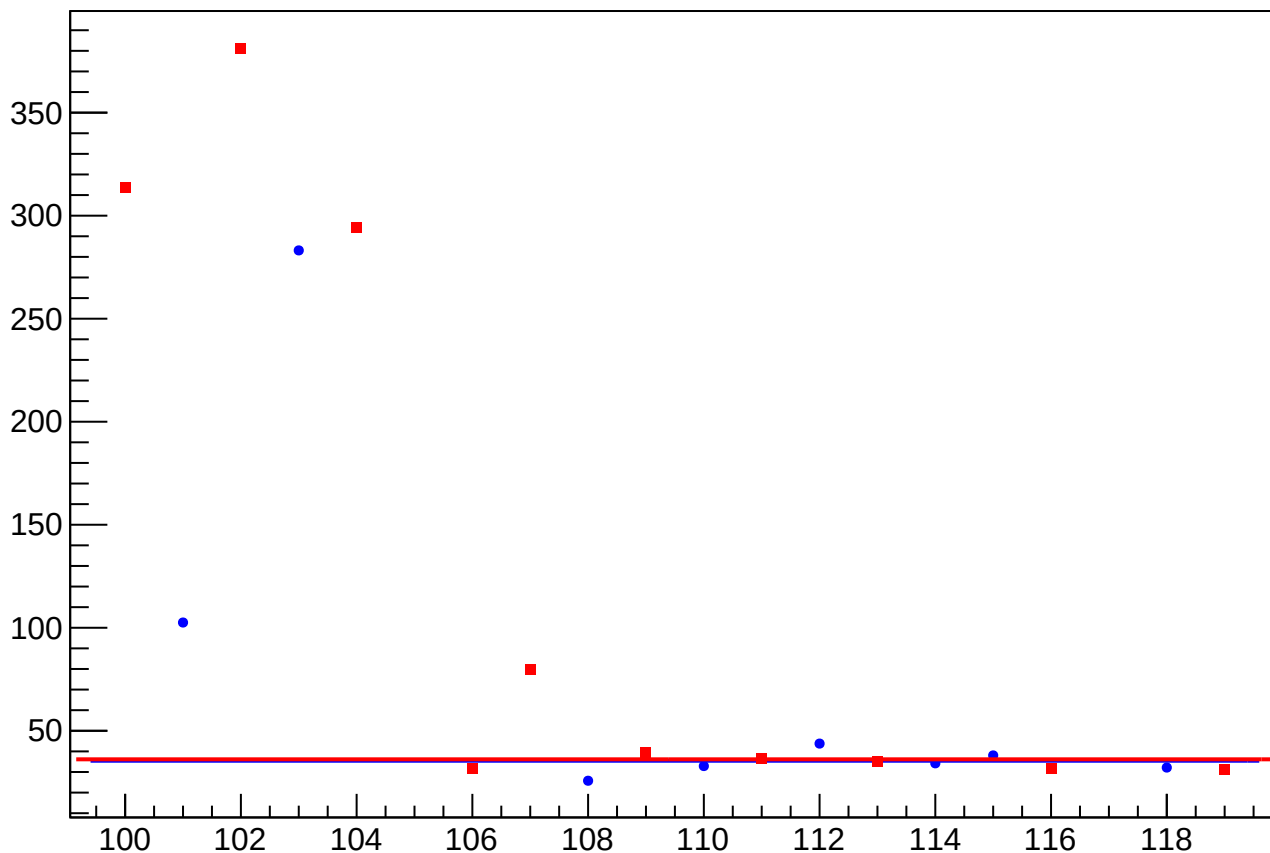
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.016  $\chi^2$ /NDF: 15.9/17

- 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: 35.470+/-0.017  $\chi^2/\text{NDF}$ : 1539711.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.153+/-0.016  $\chi^2/\text{NDF}$ : 1659958.4/9

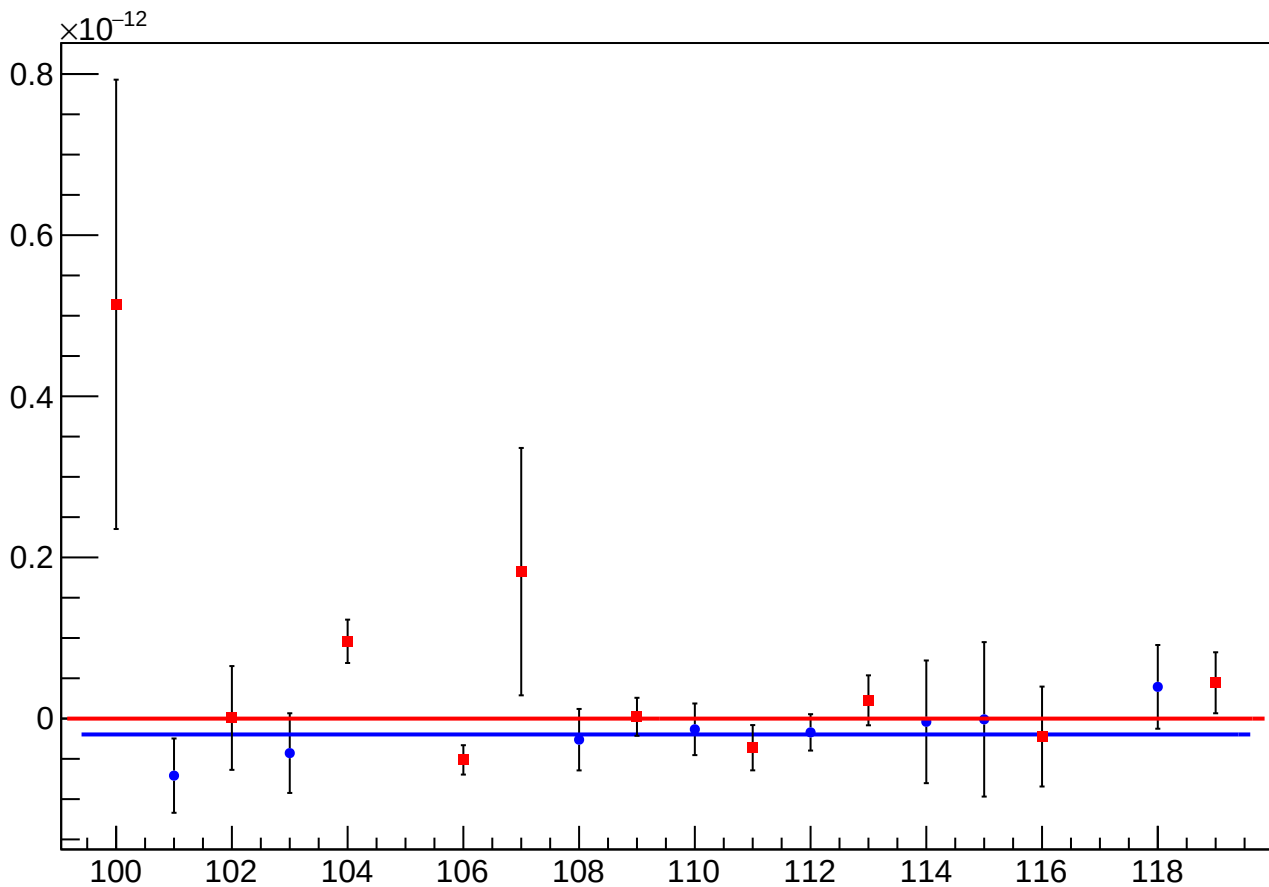
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.824+/-0.011  $\chi^2/\text{NDF}$ : 3200552.3/17

- 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  $\chi^2$ /NDF: 2.9/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 29.1/9

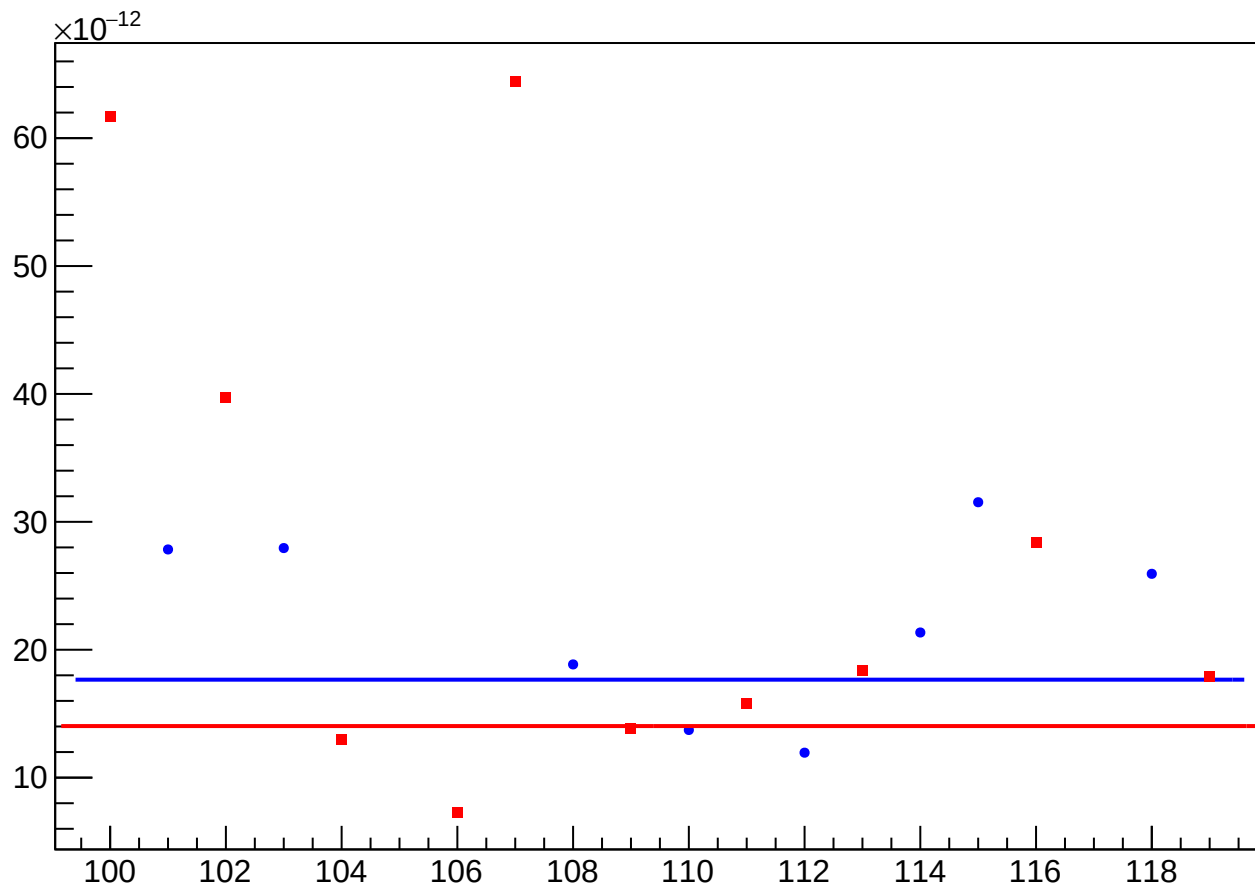
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 33.3/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 441266.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1047263.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

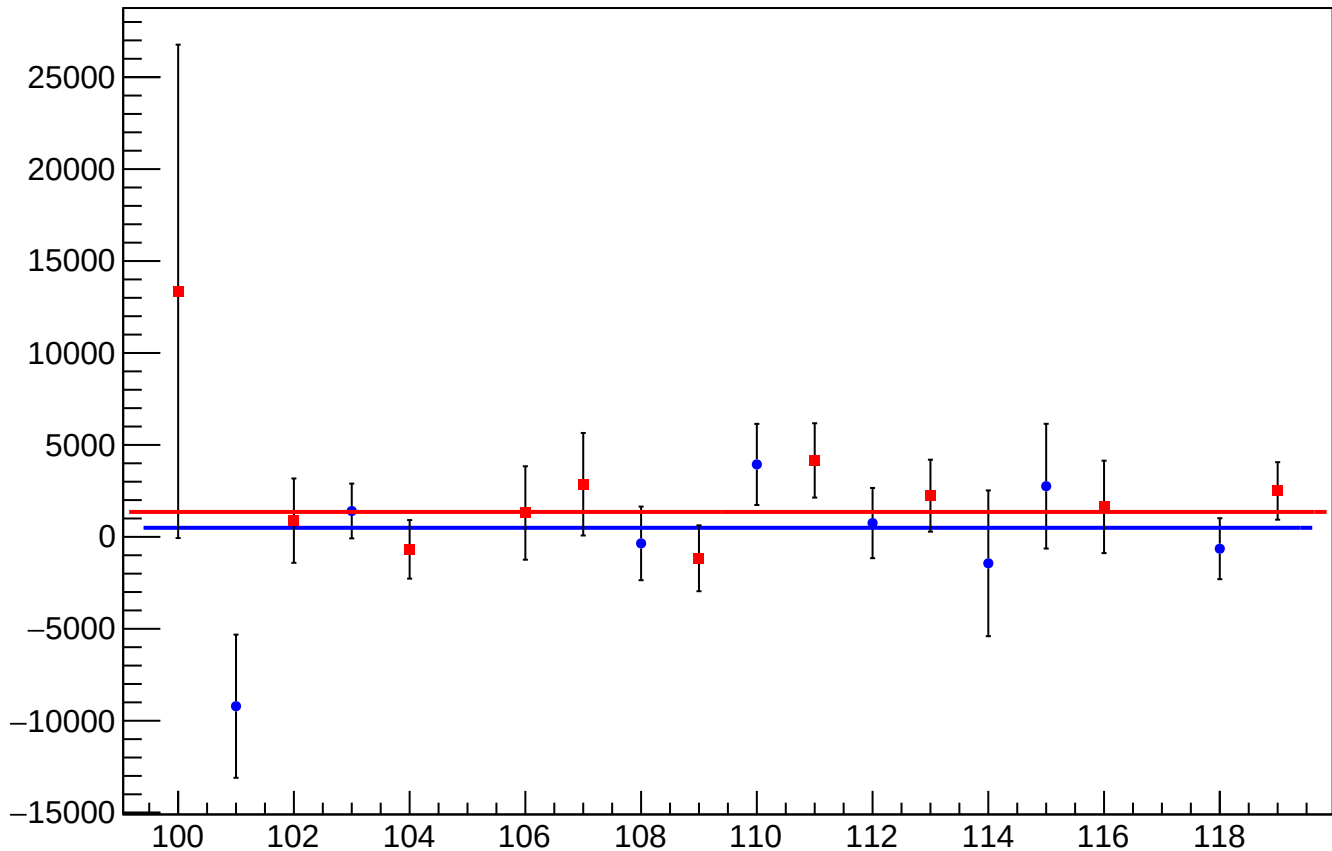
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1577258.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 493.289+/-753.723  $\chi^2/\text{NDF}$ : 10.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1356.214+/-665.429  $\chi^2/\text{NDF}$ : 7.4/9

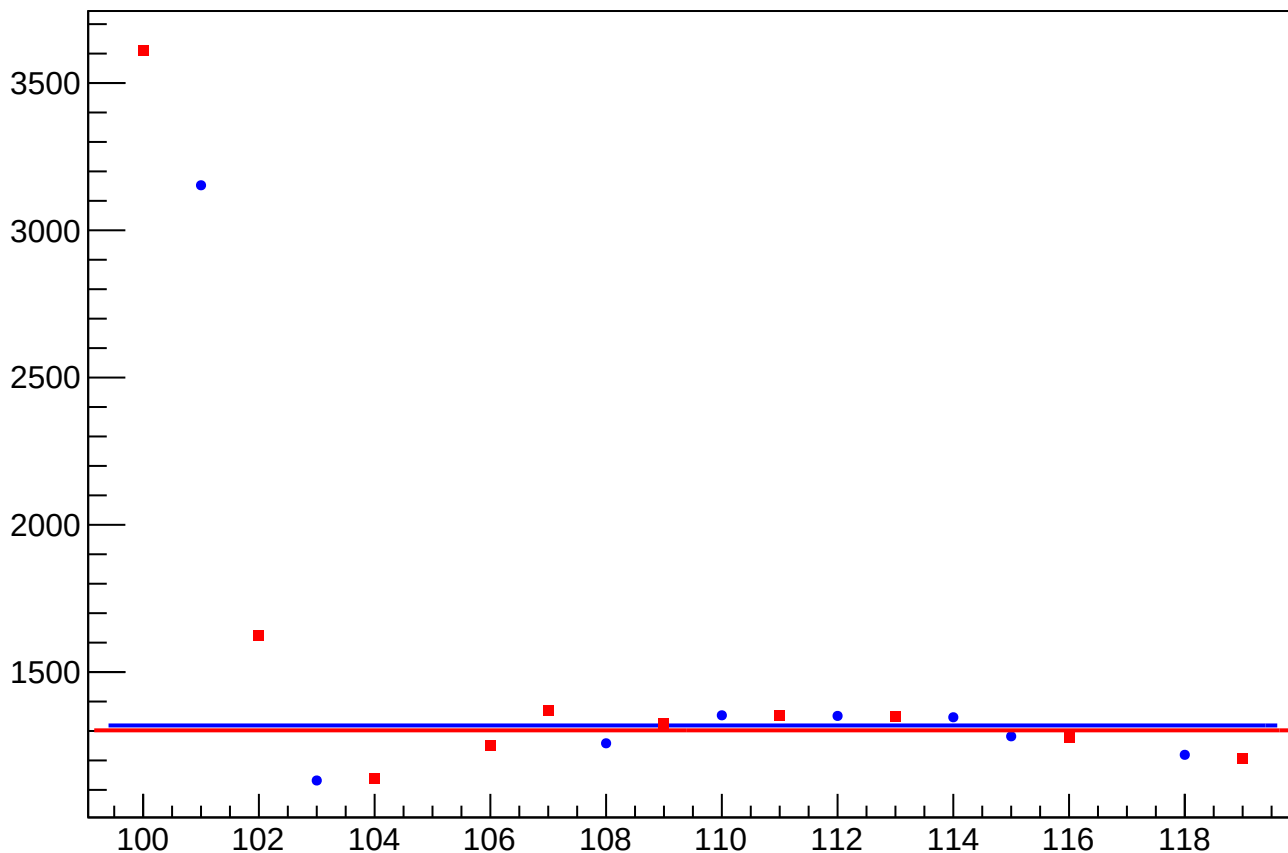
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 978.232+/-498.839  $\chi^2/\text{NDF}$ : 18.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1318.764+/-0.533  $\chi^2/\text{NDF}$ : 485828.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1302.182+/-0.471  $\chi^2/\text{NDF}$ : 131574.5/9

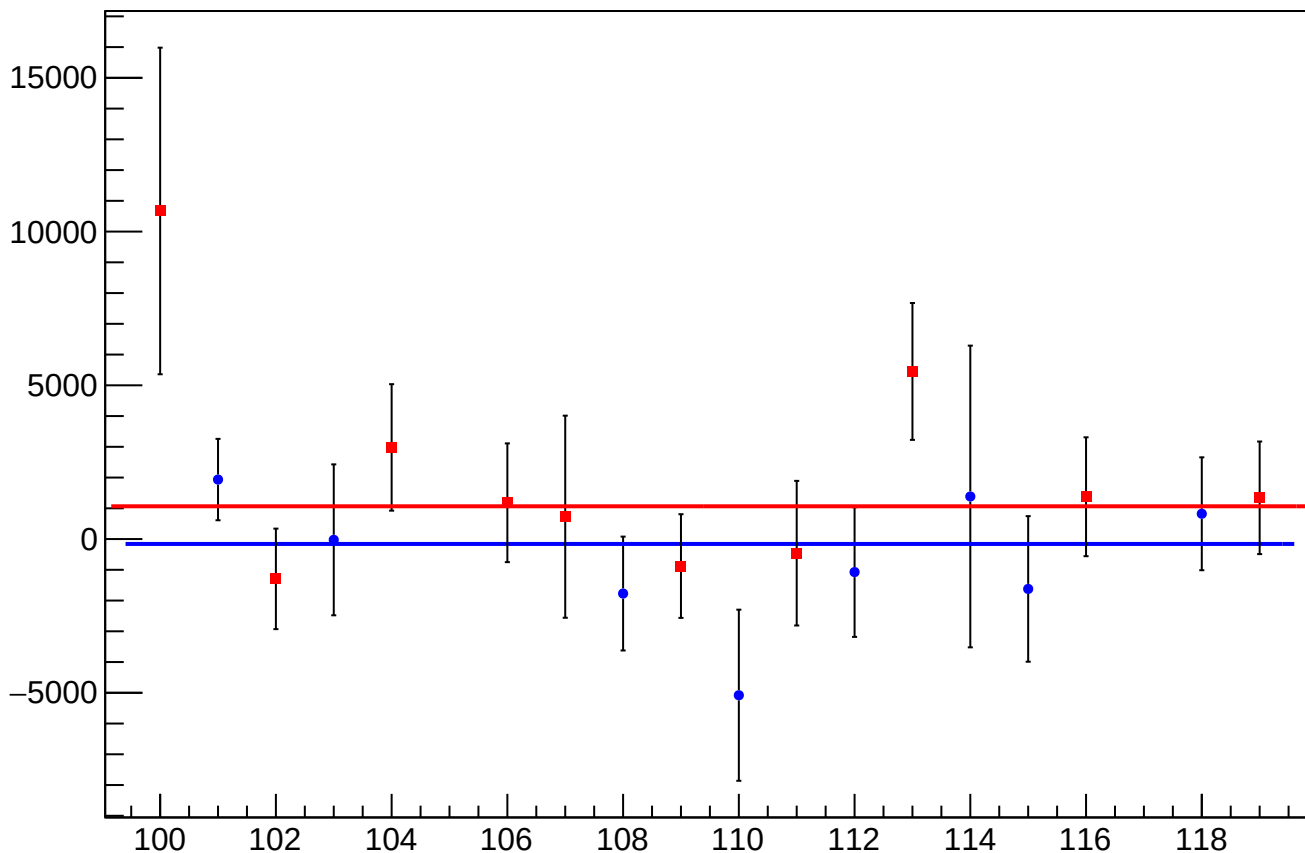
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1309.445+/-0.353  $\chi^2/\text{NDF}$ : 617946.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_reg\_correction\_mean vs Slug



Right In: -159.162 $\pm$ 725.606  $\chi^2$ /NDF: 7.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1065.513 $\pm$ 658.342  $\chi^2$ /NDF: 11.9/9

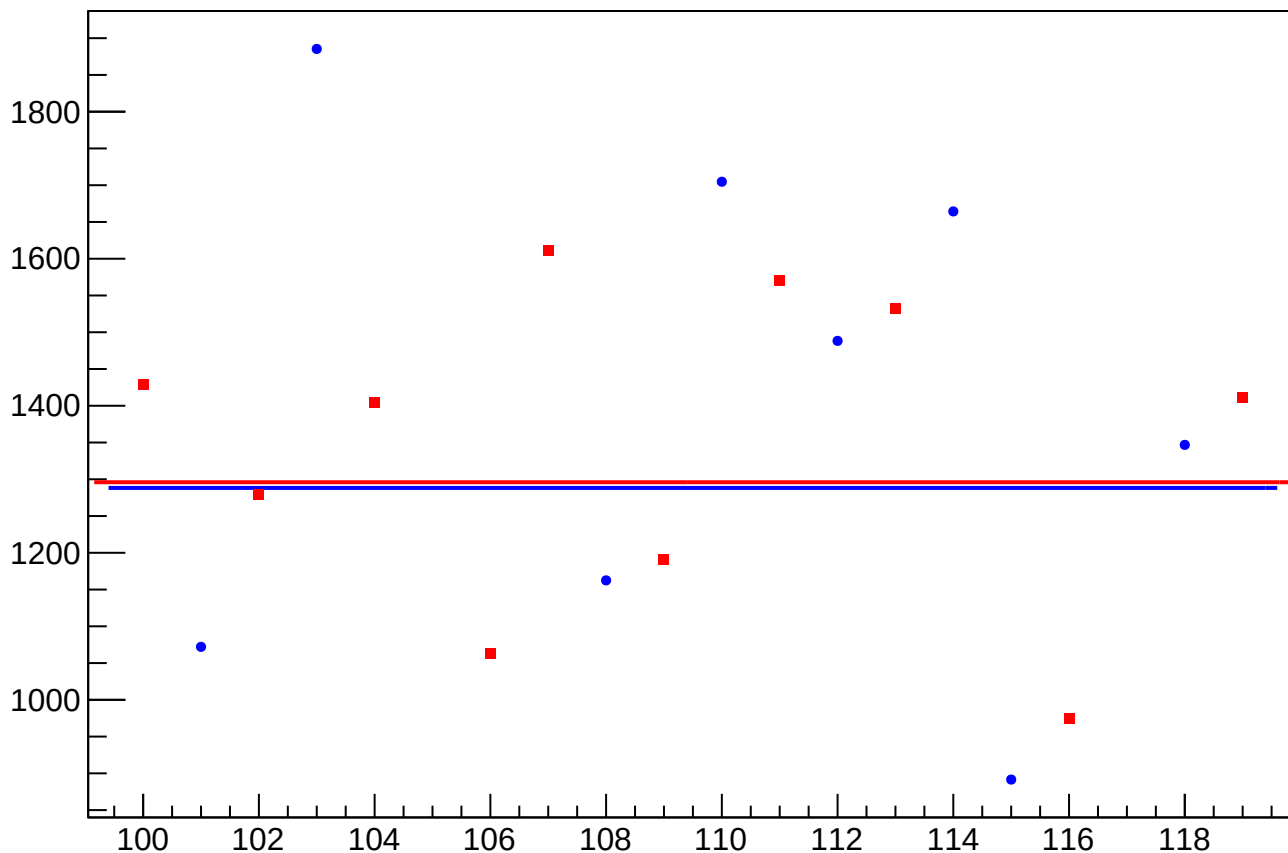
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 512.558 $\pm$ 487.568  $\chi^2$ /NDF: 20.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_reg\_correction\_rms vs Slug



Right In: 1288.261+/-0.513  $\chi^2/\text{NDF}$ : 313688.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1295.975+/-0.466  $\chi^2/\text{NDF}$ : 175154.5/9

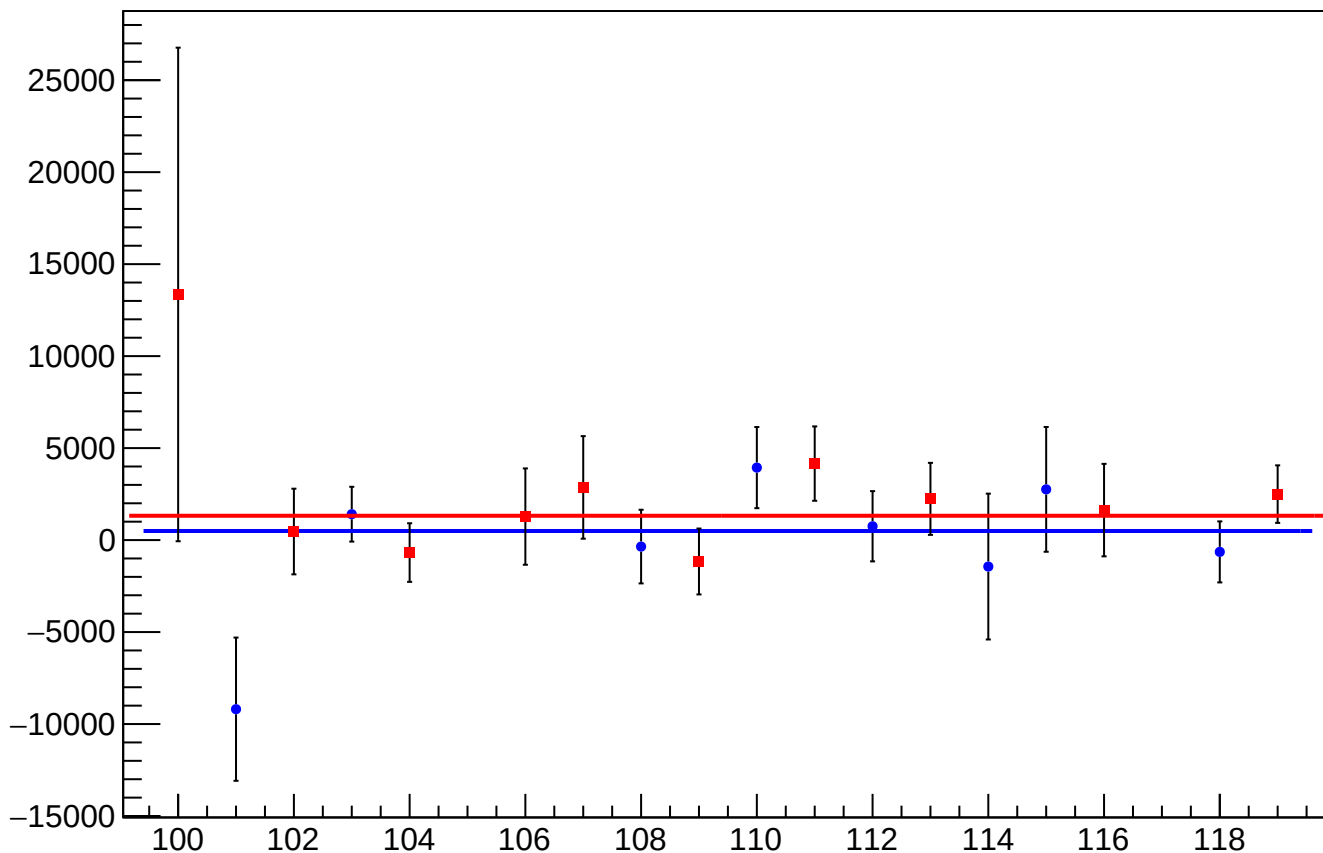
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1292.492+/-0.345  $\chi^2/\text{NDF}$ : 488967.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 493.951+/-753.723  $\chi^2/\text{NDF}$ : 10.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1322.171+/-667.605  $\chi^2/\text{NDF}$ : 7.5/9

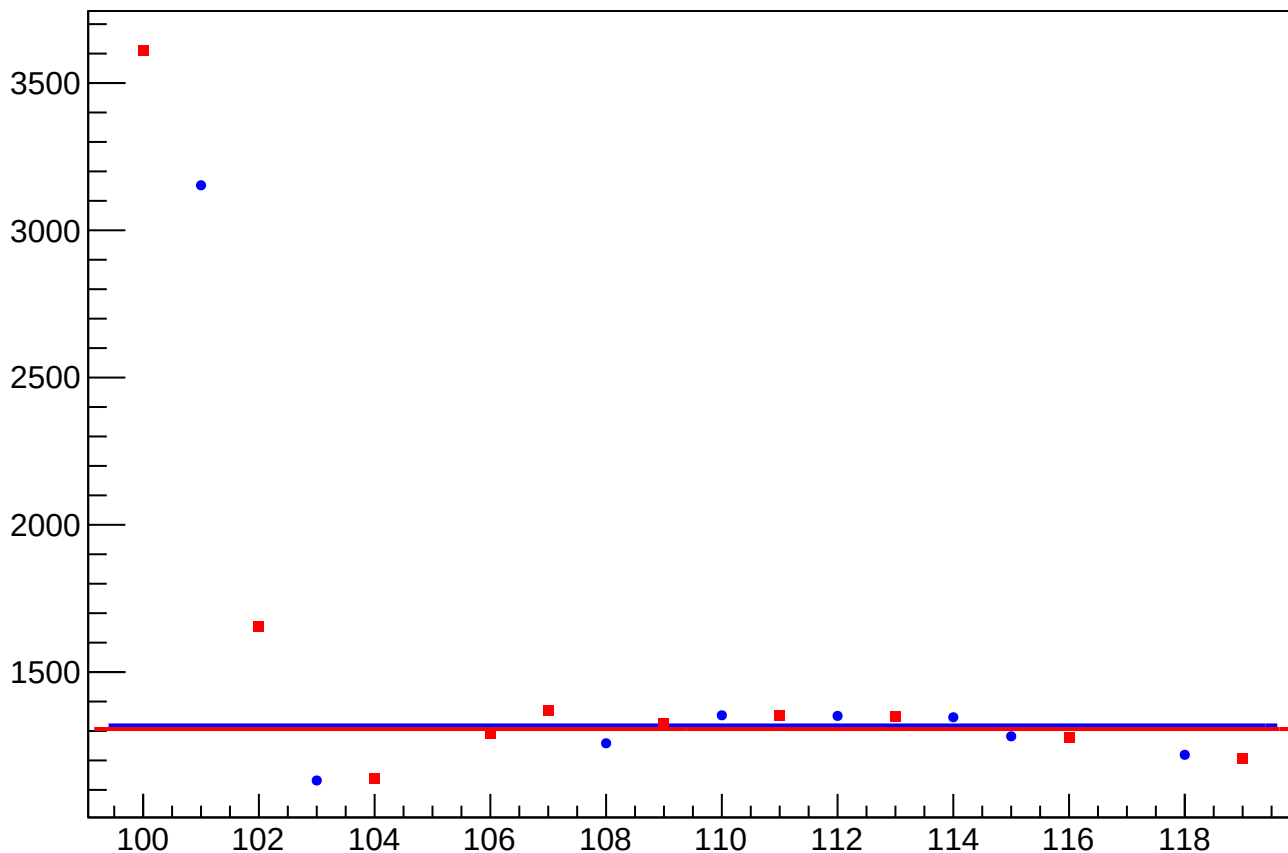
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 958.059+/-499.754  $\chi^2/\text{NDF}$ : 18.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1318.764 $\pm$ 0.533  $\chi^2$ /NDF: 485829.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1306.716 $\pm$ 0.472  $\chi^2$ /NDF: 137388.7/9

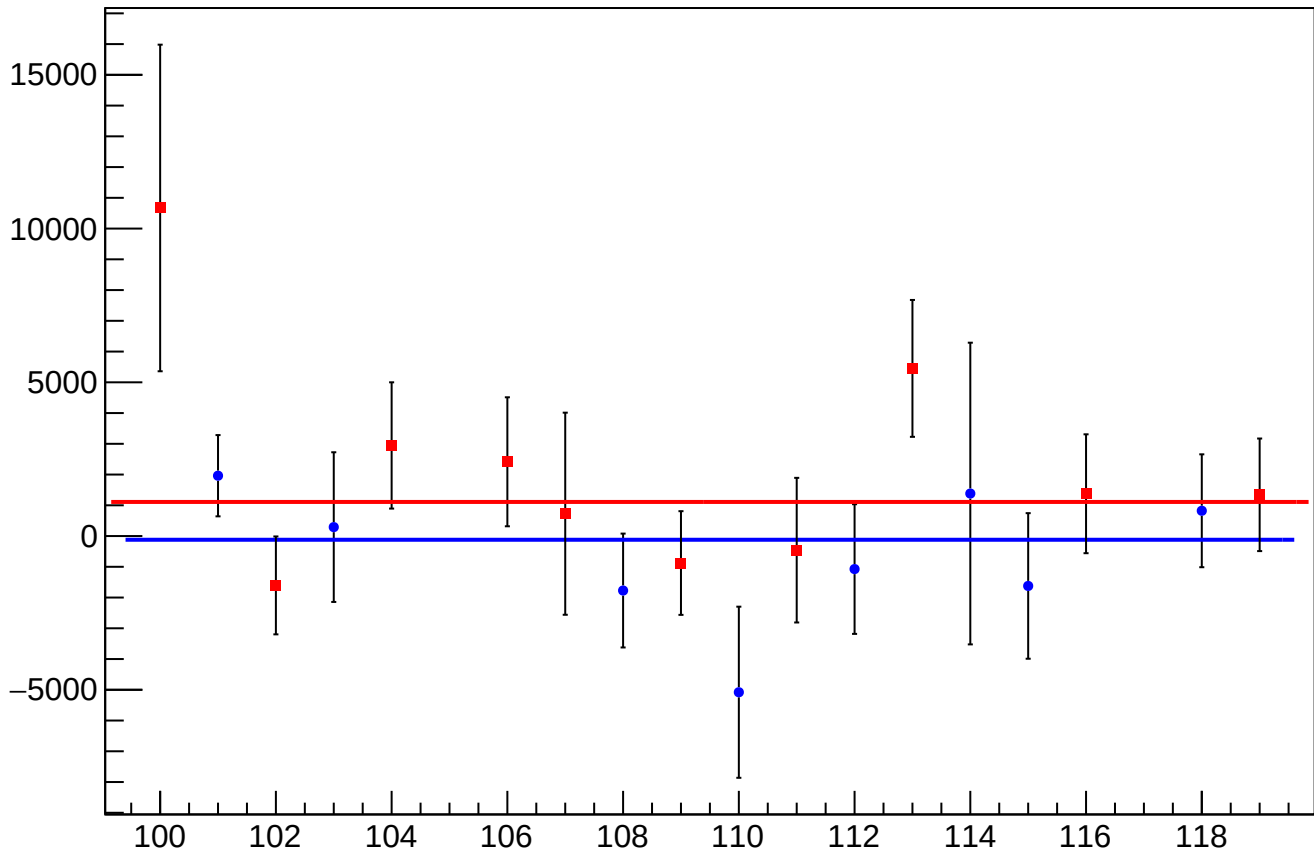
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1312.012 $\pm$ 0.353  $\chi^2$ /NDF: 623505.0/17

- 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: -120.671+/-724.735  $\chi^2/\text{NDF}$ : 7.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1109.223+/-661.212  $\chi^2/\text{NDF}$ : 13.0/9

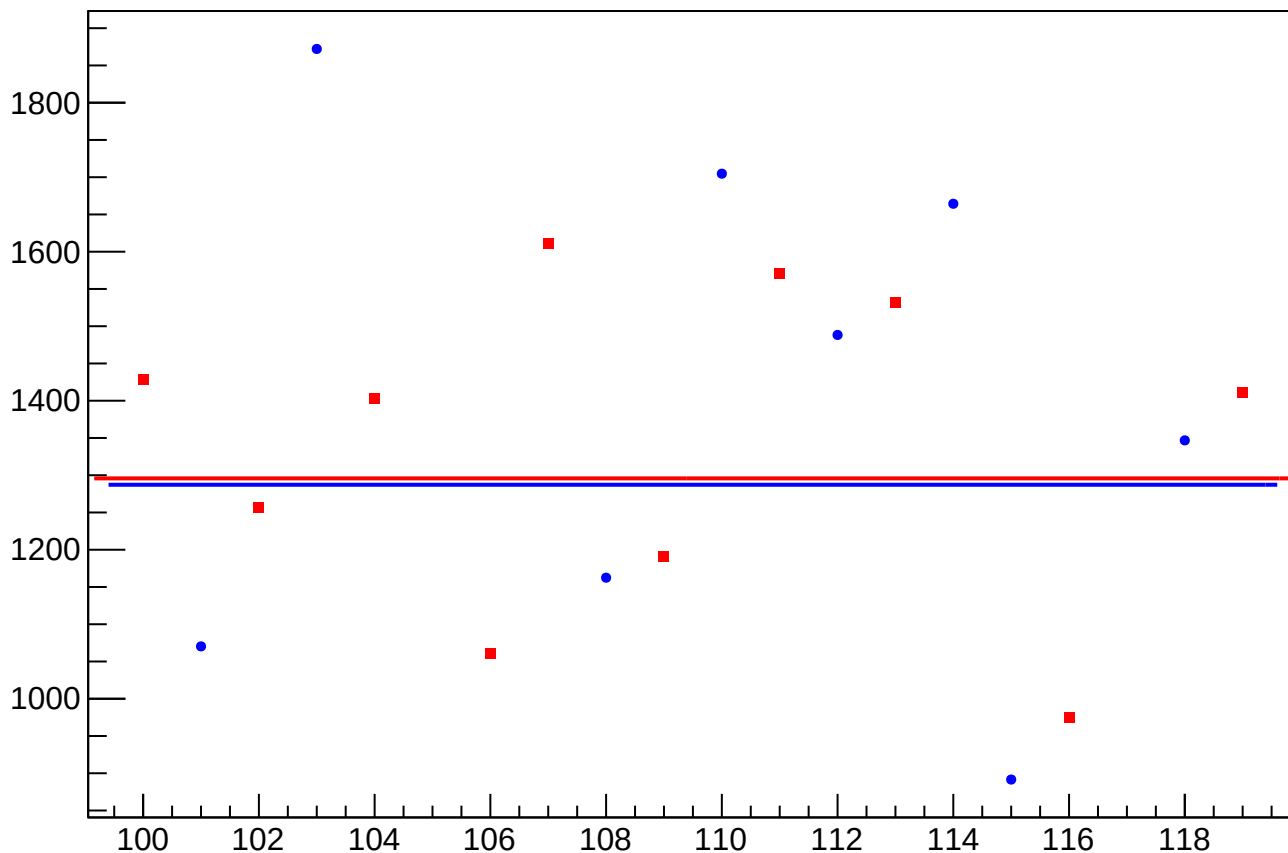
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 550.528+/-488.464  $\chi^2/\text{NDF}$ : 22.0/17

- 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: 1287.216+/-0.512  $\chi^2/\text{NDF}$ : 311443.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1295.762+/-0.468  $\chi^2/\text{NDF}$ : 172059.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

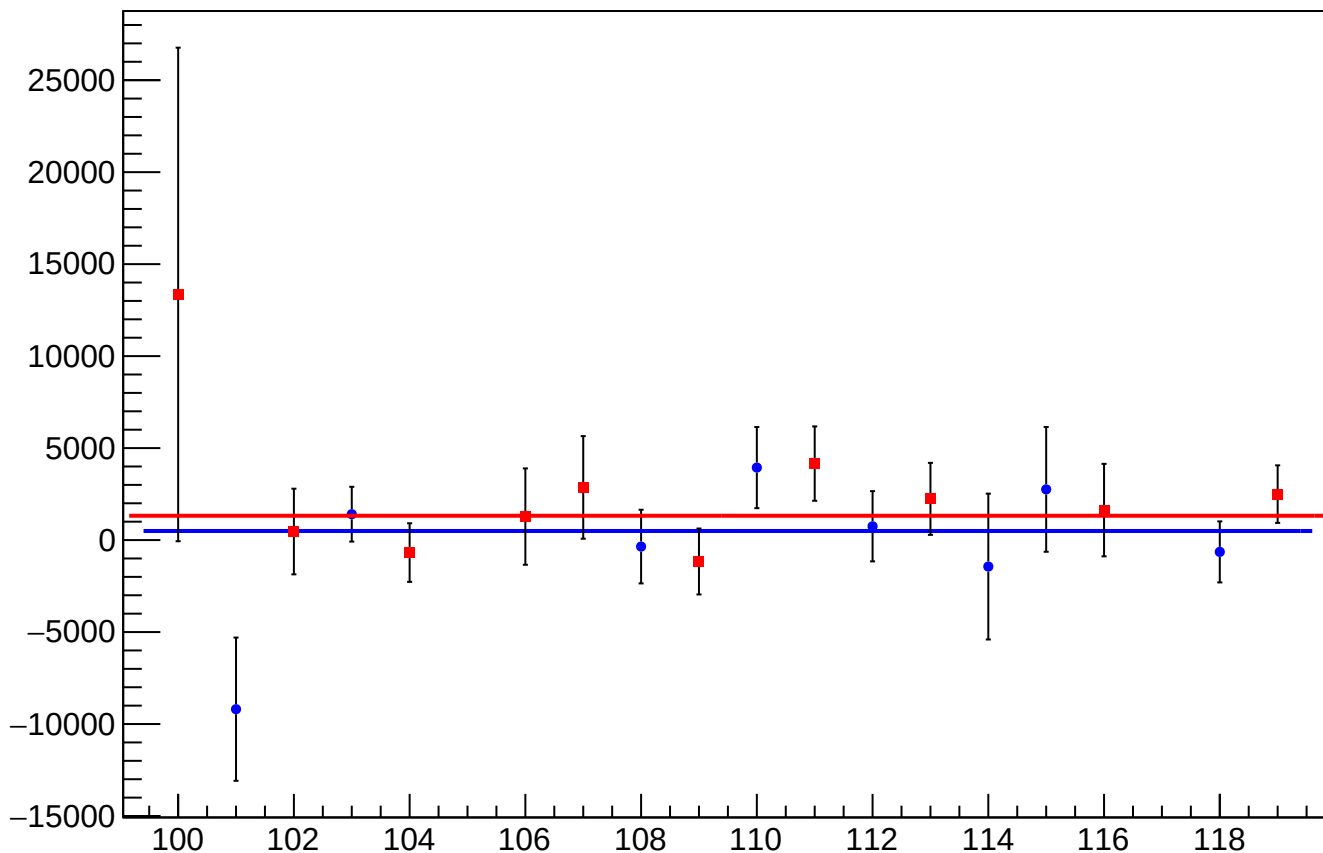
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1291.880+/-0.345  $\chi^2/\text{NDF}$ : 483654.3/17

- 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: 493.951+/-753.723  $\chi^2/\text{NDF}$ : 10.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1322.171+/-667.605  $\chi^2/\text{NDF}$ : 7.5/9

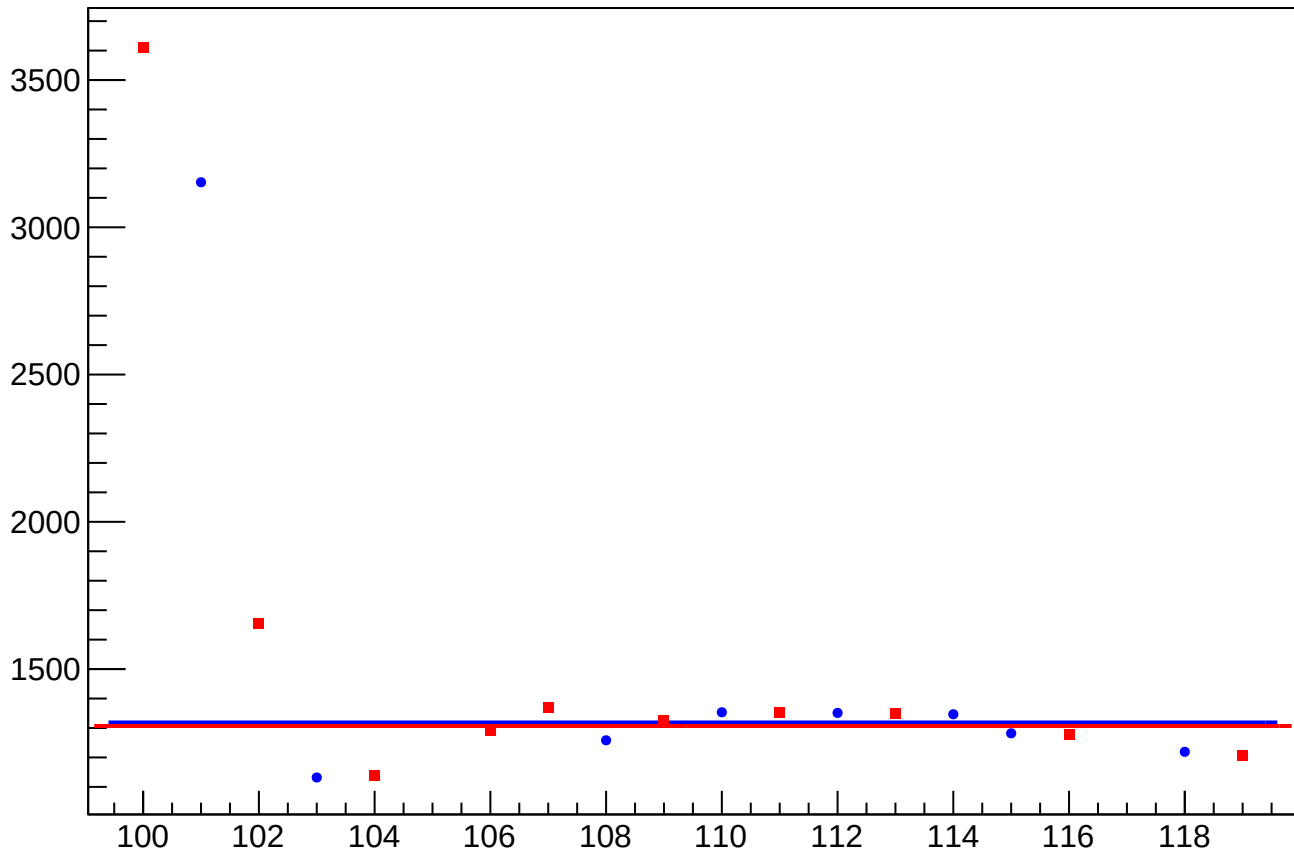
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 958.059+/-499.754  $\chi^2/\text{NDF}$ : 18.6/17

- 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: 1318.764+/-0.533  $\chi^2/\text{NDF}$ : 485829.9/7

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

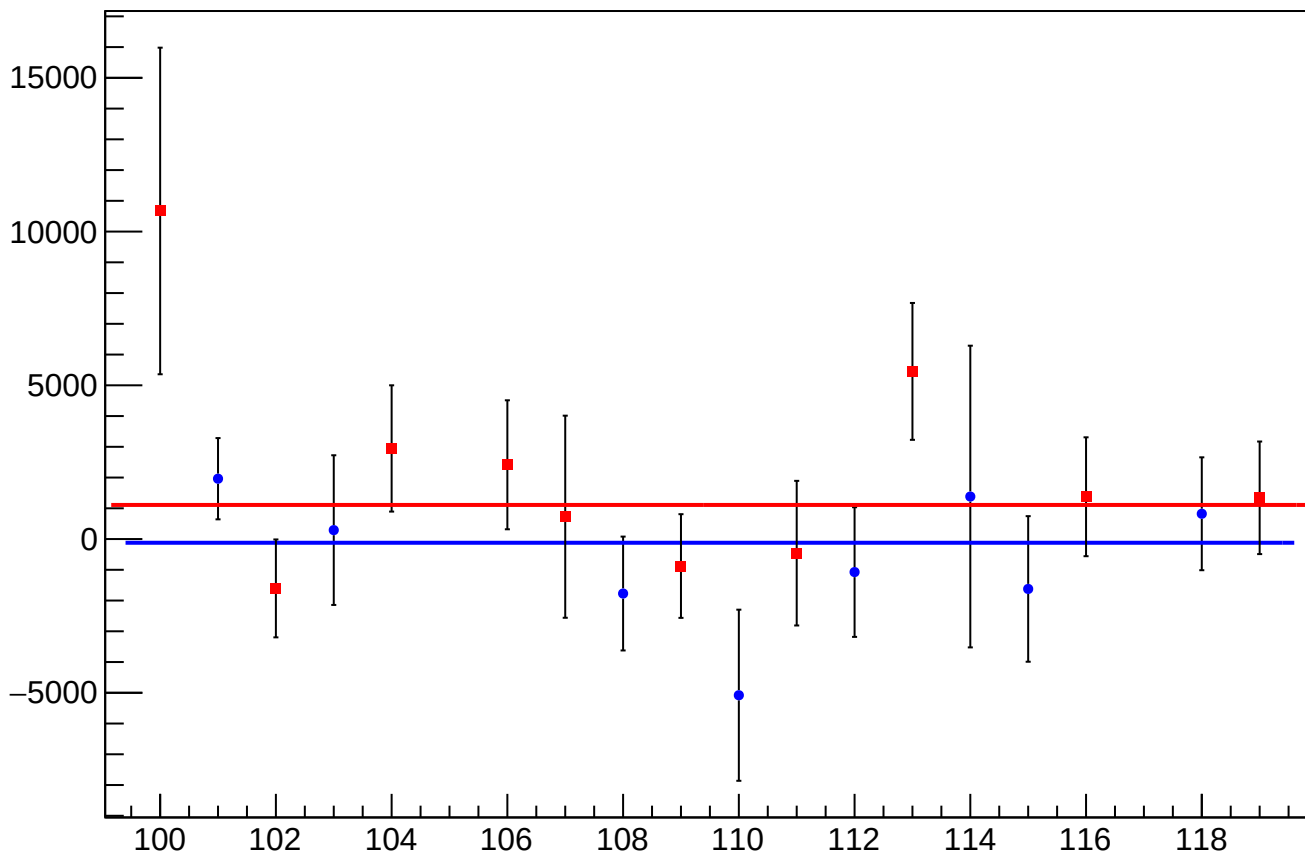
Right Out: 1306.716+/-0.472  $\chi^2/\text{NDF}$ : 137388.7/9

All: 1312.012+/-0.353  $\chi^2/\text{NDF}$ : 623505.0/17

- 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\_eigen\_cor\_correction\_mean vs Slug



Right In: -120.671+/-724.735  $\chi^2/\text{NDF}$ : 7.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1109.223+/-661.212  $\chi^2/\text{NDF}$ : 13.0/9

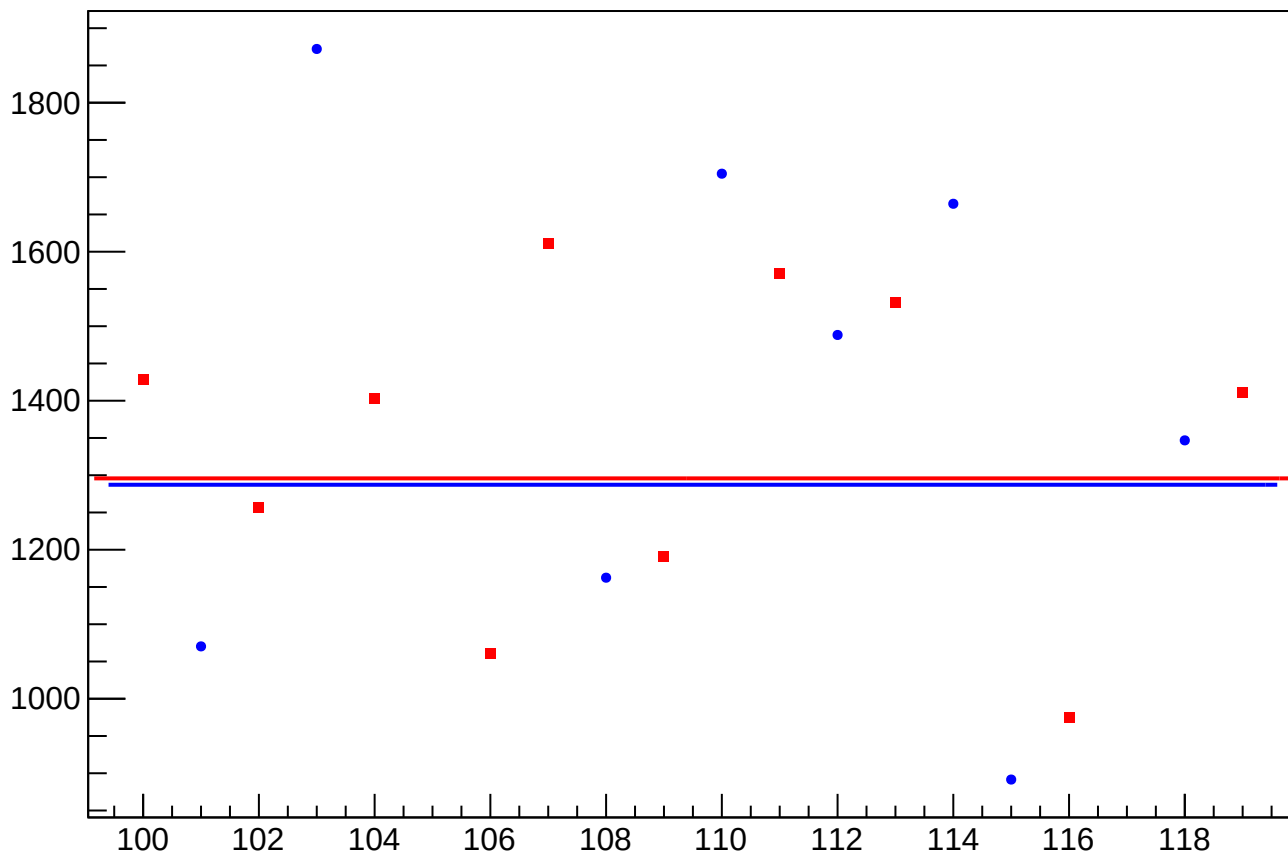
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 550.528+/-488.464  $\chi^2/\text{NDF}$ : 22.0/17

- 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: 1287.216+/-0.512  $\chi^2/\text{NDF}$ : 311443.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1295.762+/-0.468  $\chi^2/\text{NDF}$ : 172059.3/9

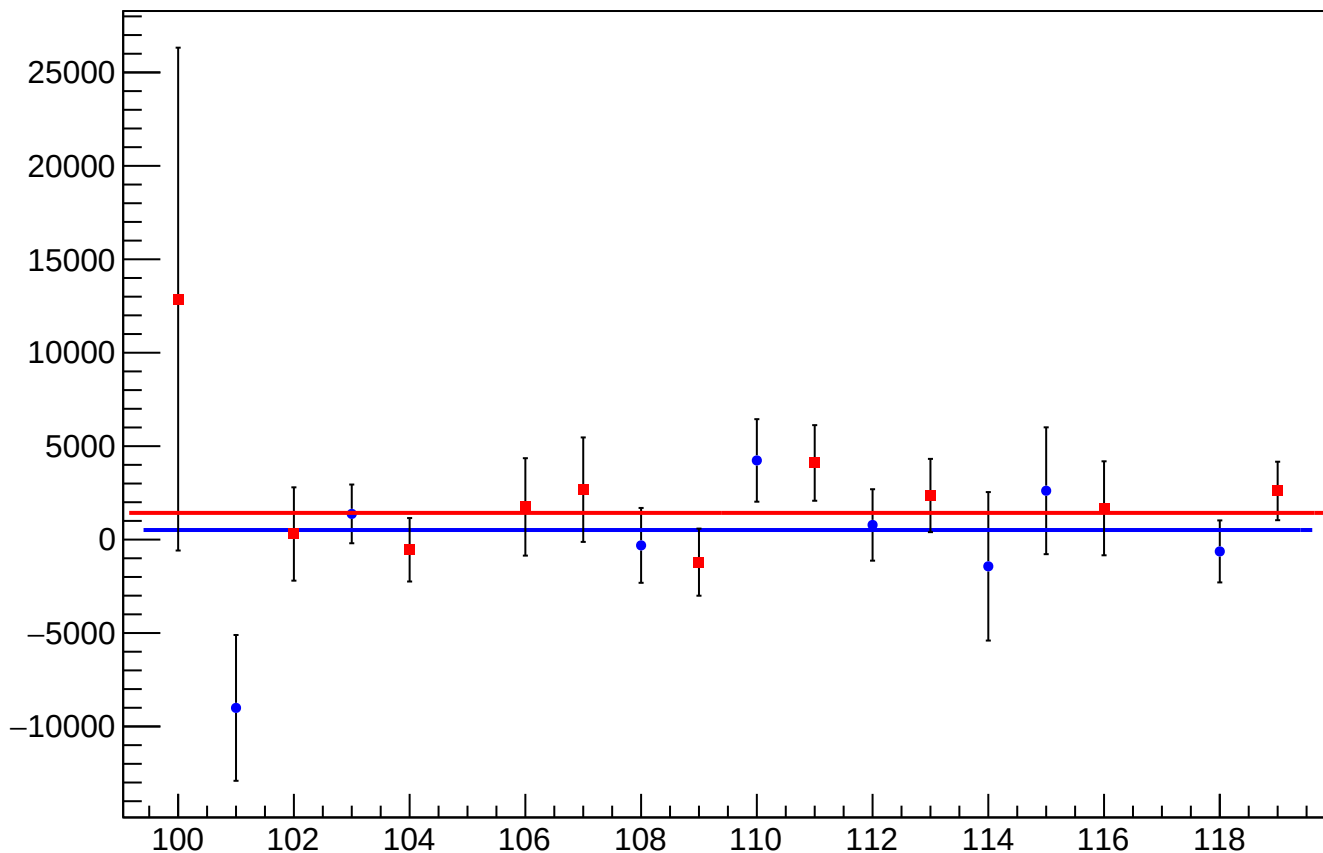
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1291.880+/-0.345  $\chi^2/\text{NDF}$ : 483654.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 512.804 $\pm$ 764.281  $\chi^2$ /NDF: 10.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1428.714 $\pm$ 678.969  $\chi^2$ /NDF: 7.2/9

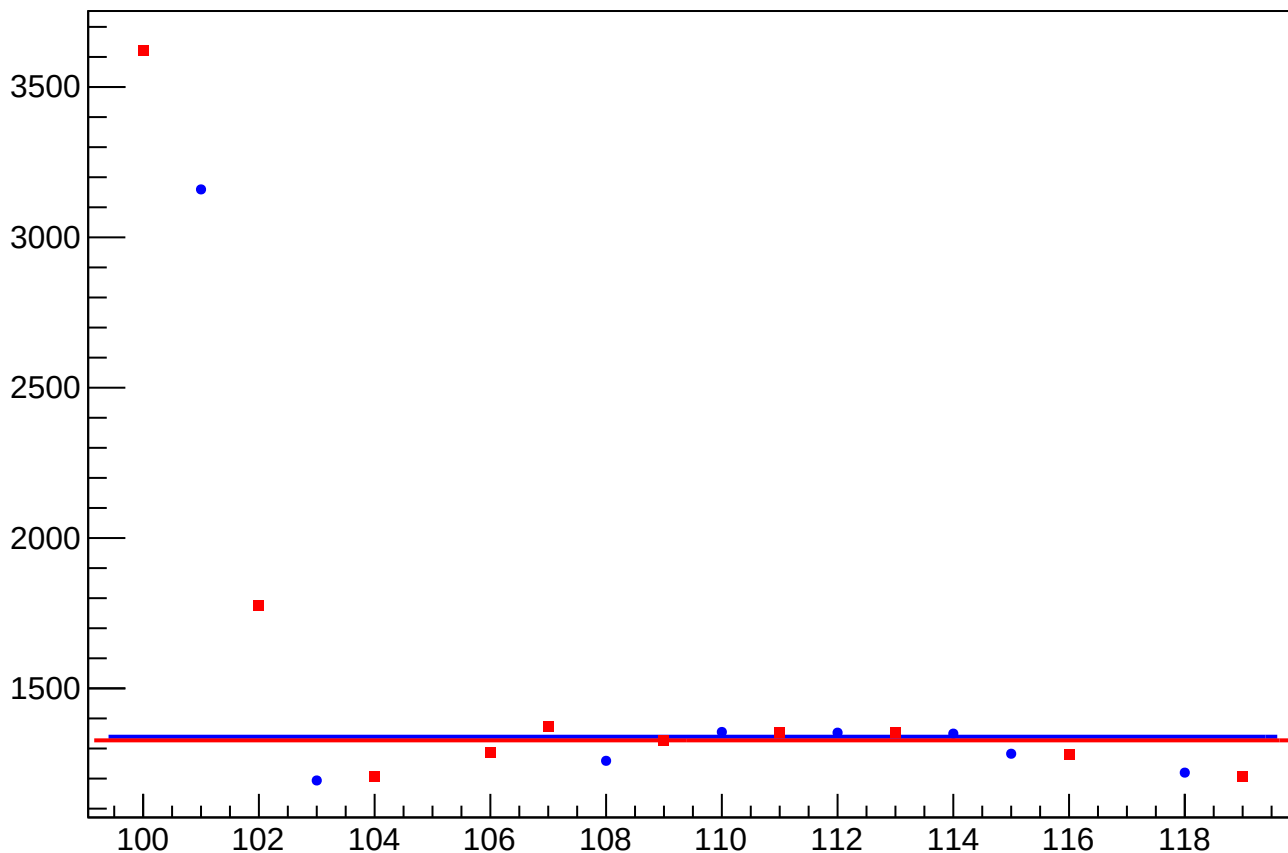
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1024.711 $\pm$ 507.597  $\chi^2$ /NDF: 18.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1339.205 $\pm$ 0.540  $\chi^2$ /NDF: 466868.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1327.118 $\pm$ 0.480  $\chi^2$ /NDF: 146713.4/9

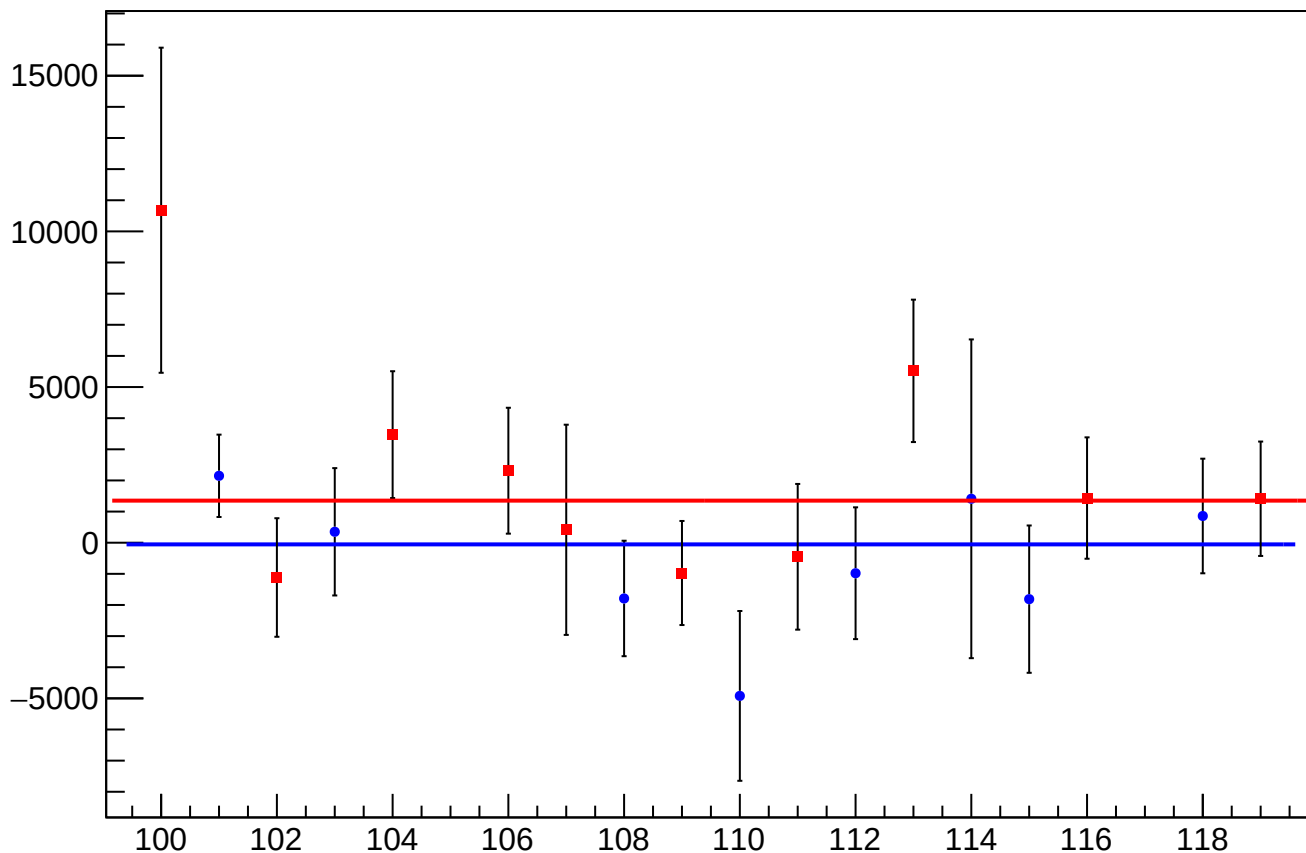
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1332.450 $\pm$ 0.359  $\chi^2$ /NDF: 613861.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_dit\_correction\_mean vs Slug



Right In: -53.738 $\pm$ 712.265  $\chi^2$ /NDF: 7.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1351.569 $\pm$ 677.736  $\chi^2$ /NDF: 12.1/9

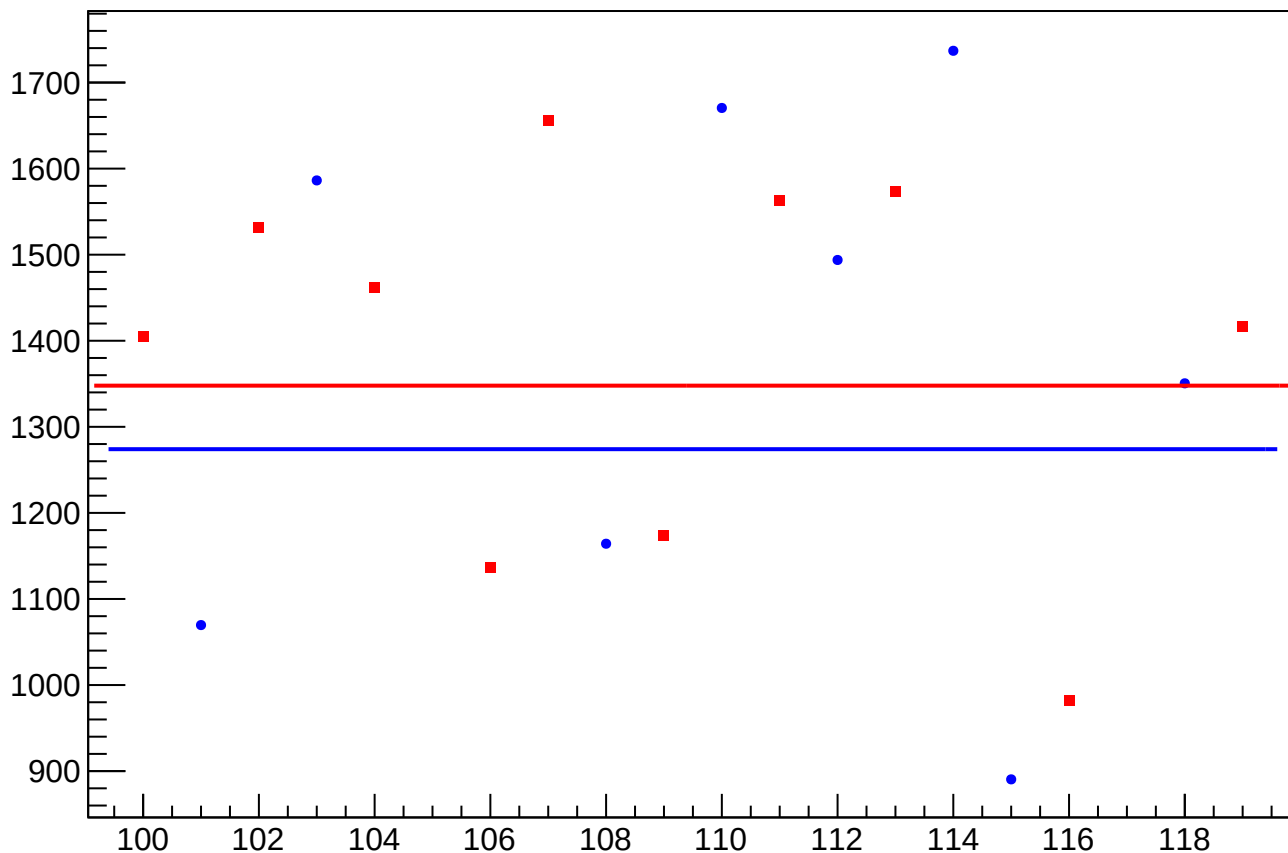
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 683.803 $\pm$ 490.985  $\chi^2$ /NDF: 22.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_dit\_correction\_rms vs Slug



Right In: 1274.028+/-0.504  $\chi^2/\text{NDF}$ : 237603.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1347.839+/-0.479  $\chi^2/\text{NDF}$ : 194639.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

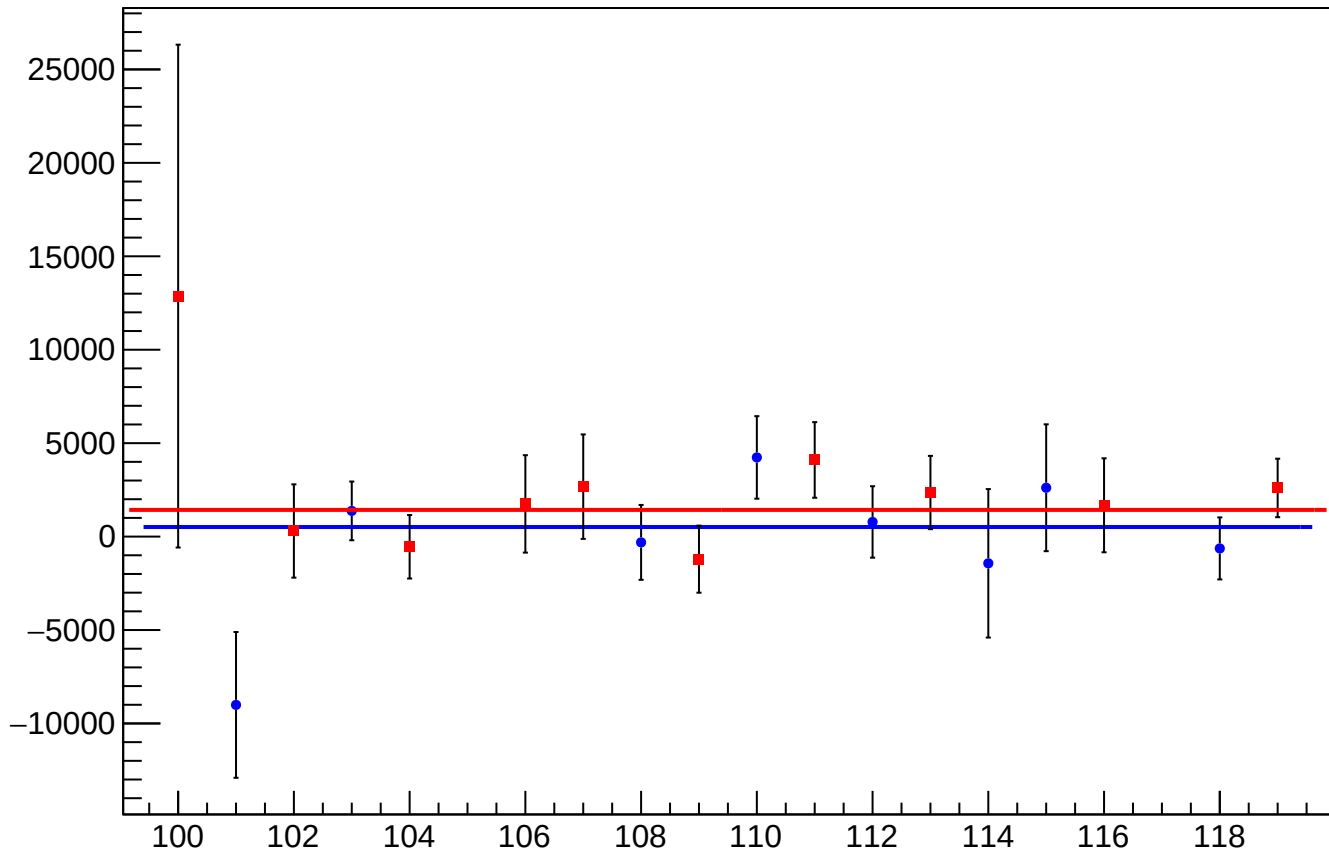
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1312.766+/-0.347  $\chi^2/\text{NDF}$ : 443515.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 512.799+/-764.281  $\chi^2/\text{NDF}$ : 10.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1428.715+/-678.969  $\chi^2/\text{NDF}$ : 7.2/9

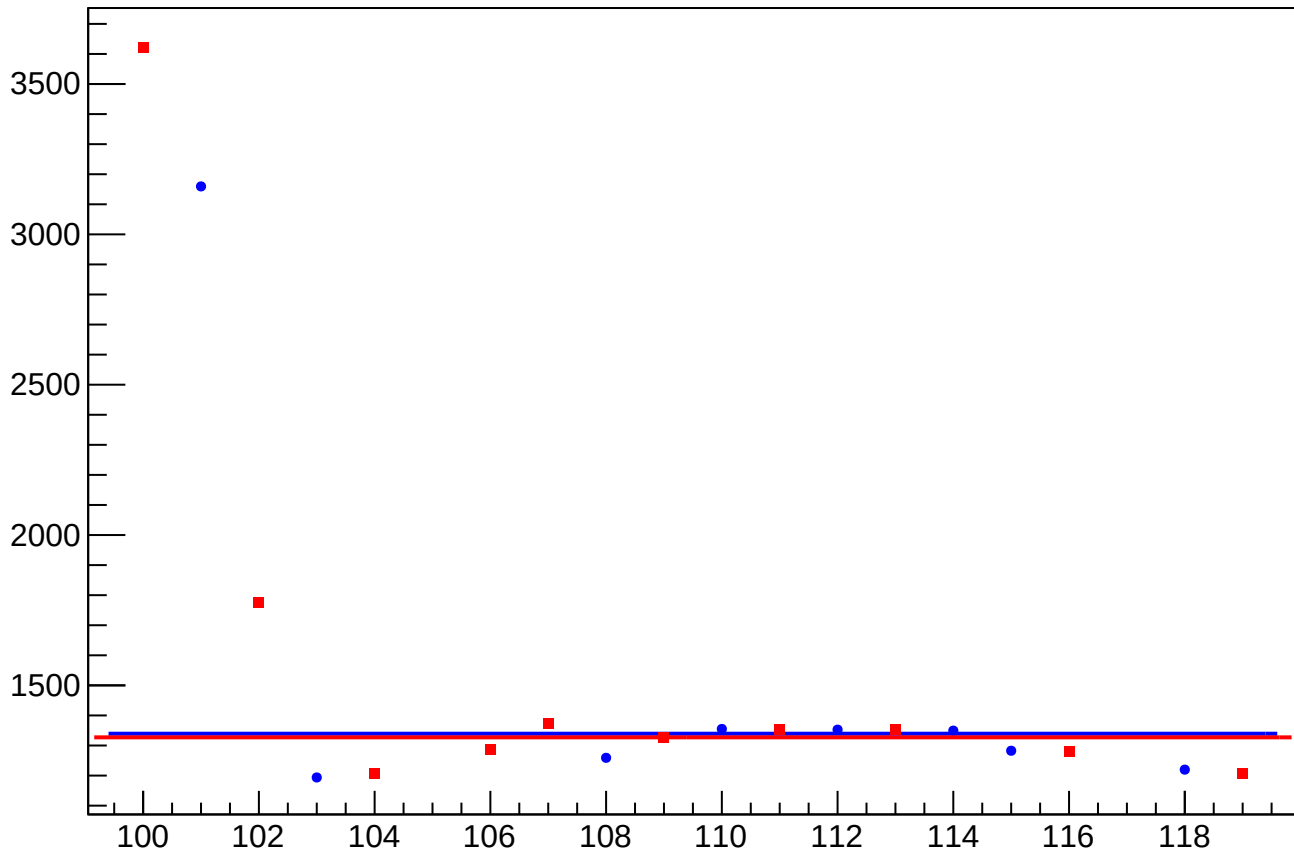
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1024.709+/-507.597  $\chi^2/\text{NDF}$ : 18.4/17

- 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: 1339.205+/-0.540  $\chi^2/\text{NDF}$ : 466868.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1327.118+/-0.480  $\chi^2/\text{NDF}$ : 146713.3/9

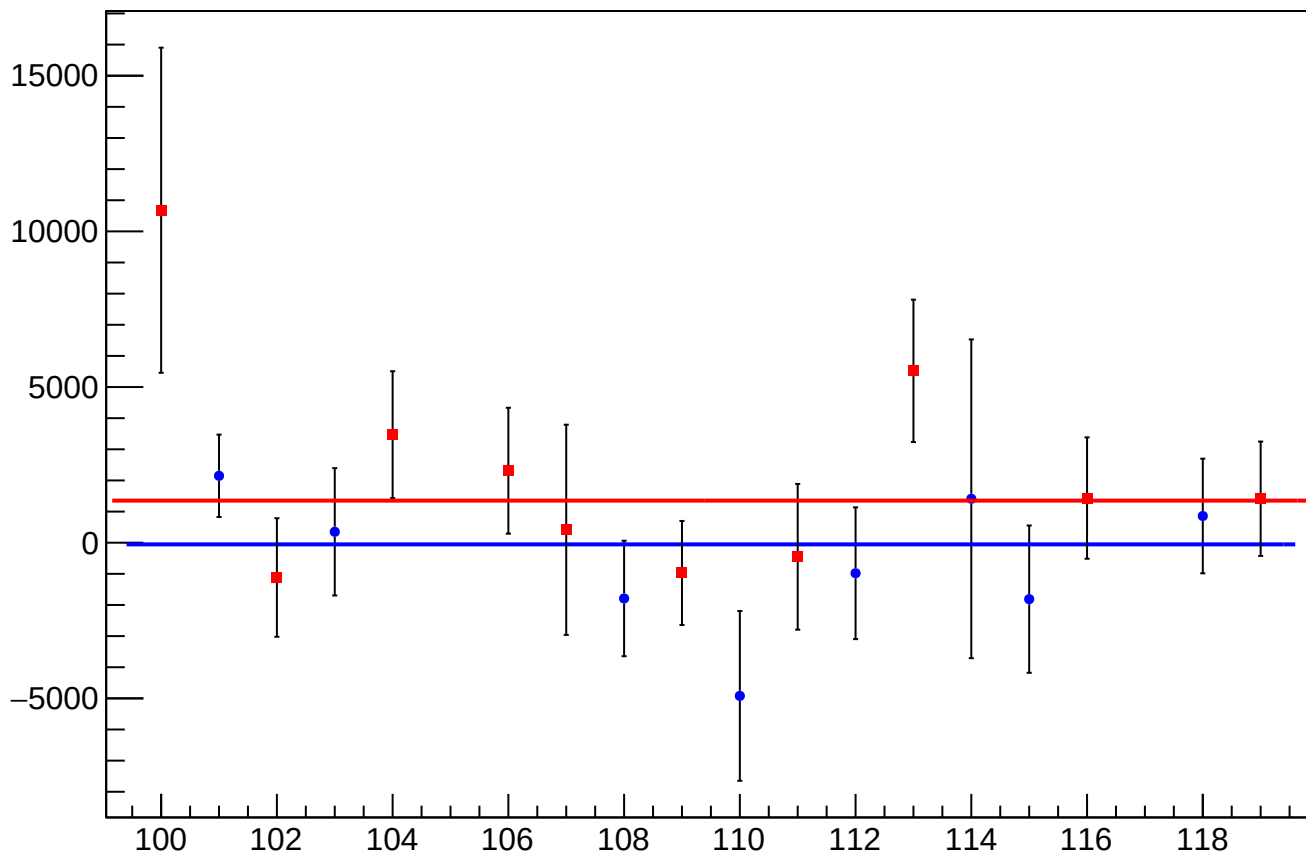
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1332.450+/-0.359  $\chi^2/\text{NDF}$ : 613861.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -53.739 $\pm$ 712.263  $\chi^2$ /NDF: 7.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1351.572 $\pm$ 677.736  $\chi^2$ /NDF: 12.1/9

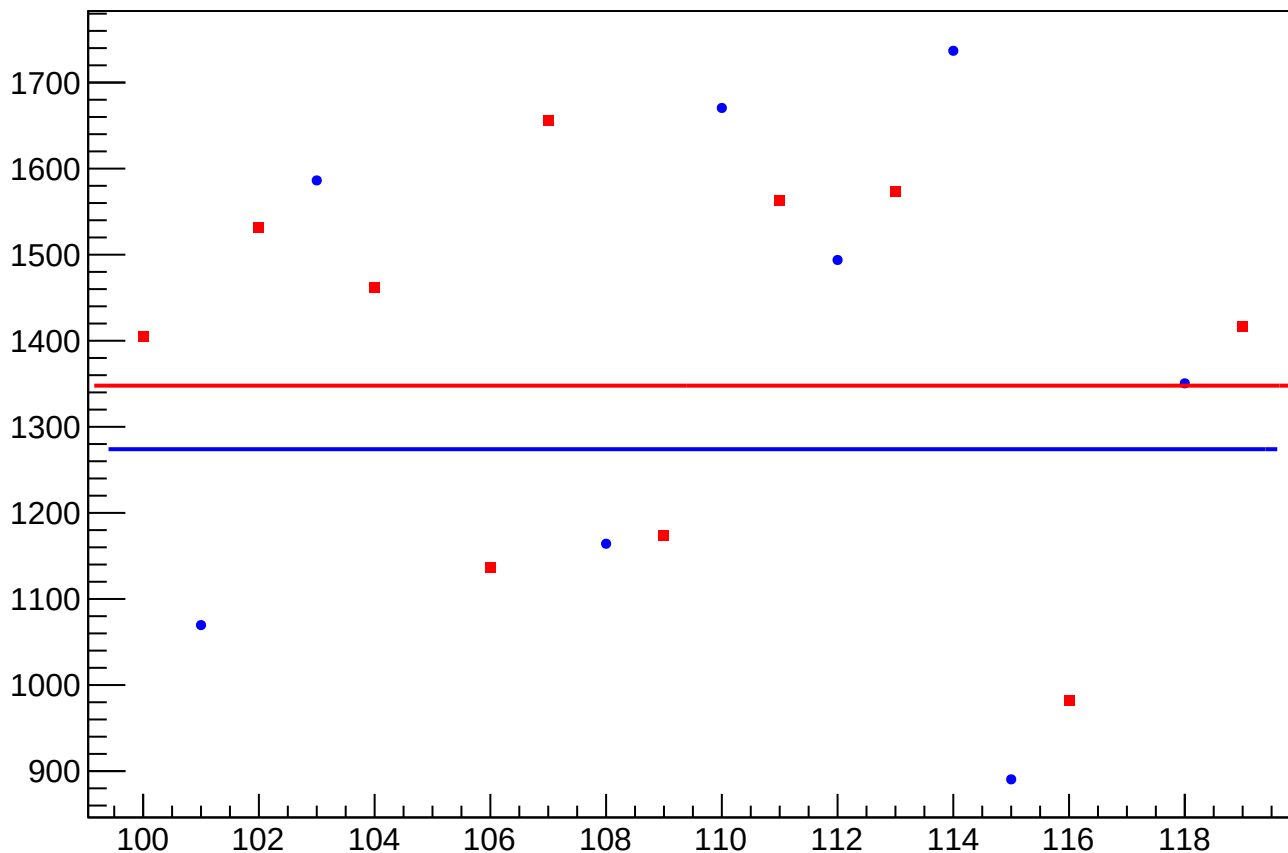
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 683.803 $\pm$ 490.984  $\chi^2$ /NDF: 22.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1274.025 $\pm$ 0.504  $\chi^2$ /NDF: 237608.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1347.840 $\pm$ 0.479  $\chi^2$ /NDF: 194638.7/9

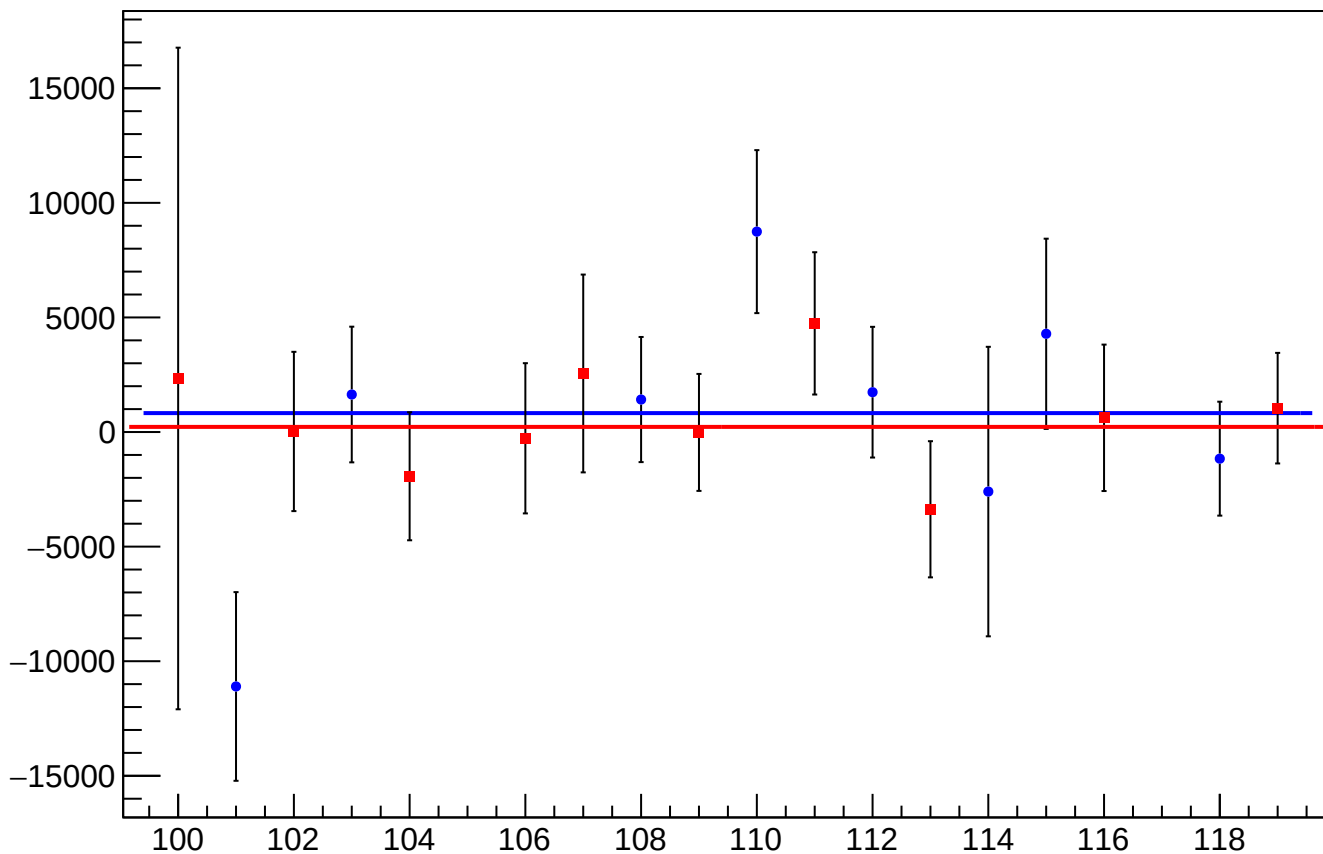
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1312.765 $\pm$ 0.347  $\chi^2$ /NDF: 443520.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 825.751+/-1151.333  $\chi^2/\text{NDF}$ : 15.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 224.083+/-998.479  $\chi^2/\text{NDF}$ : 4.7/9

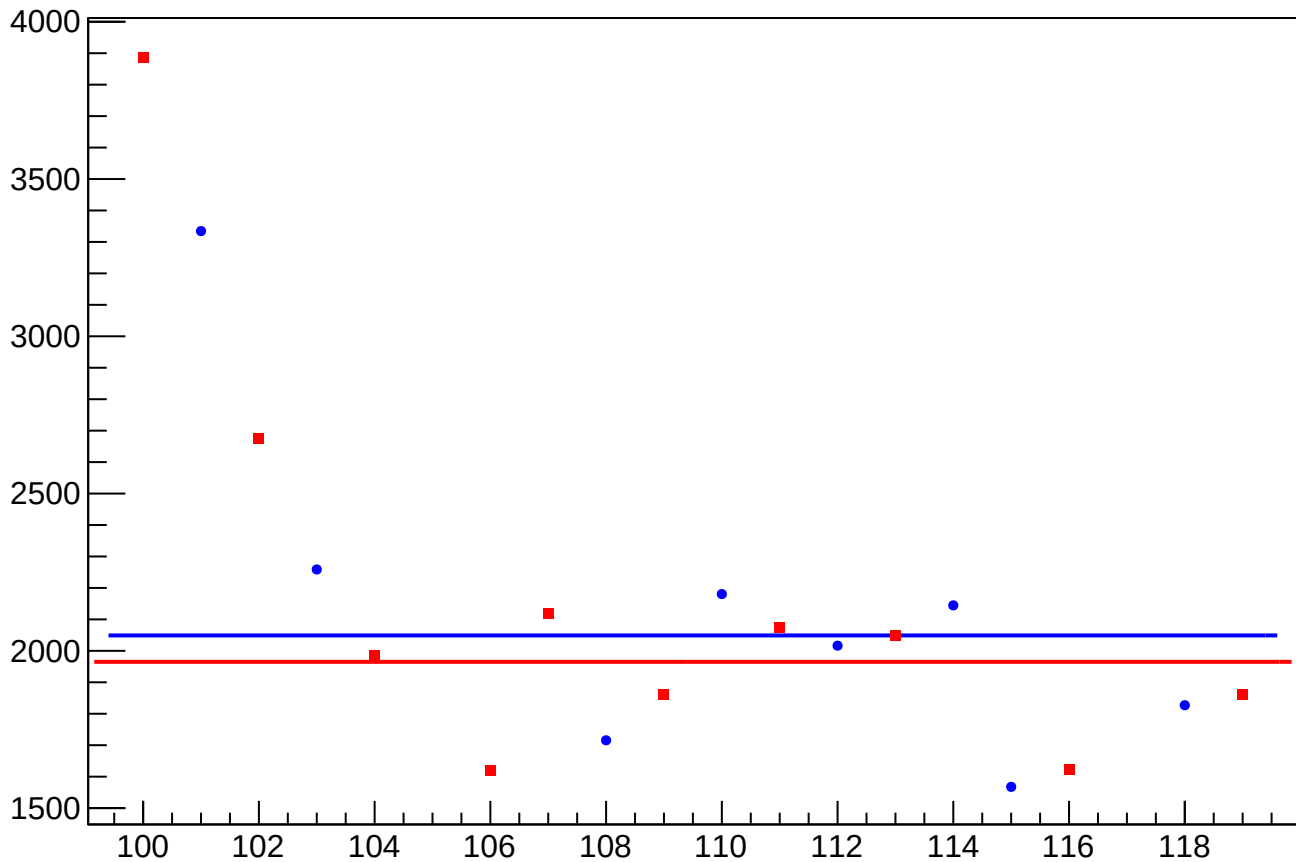
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 482.353+/-754.327  $\chi^2/\text{NDF}$ : 20.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 2048.967+/-0.814  $\chi^2/\text{NDF}$ : 281235.9/7

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

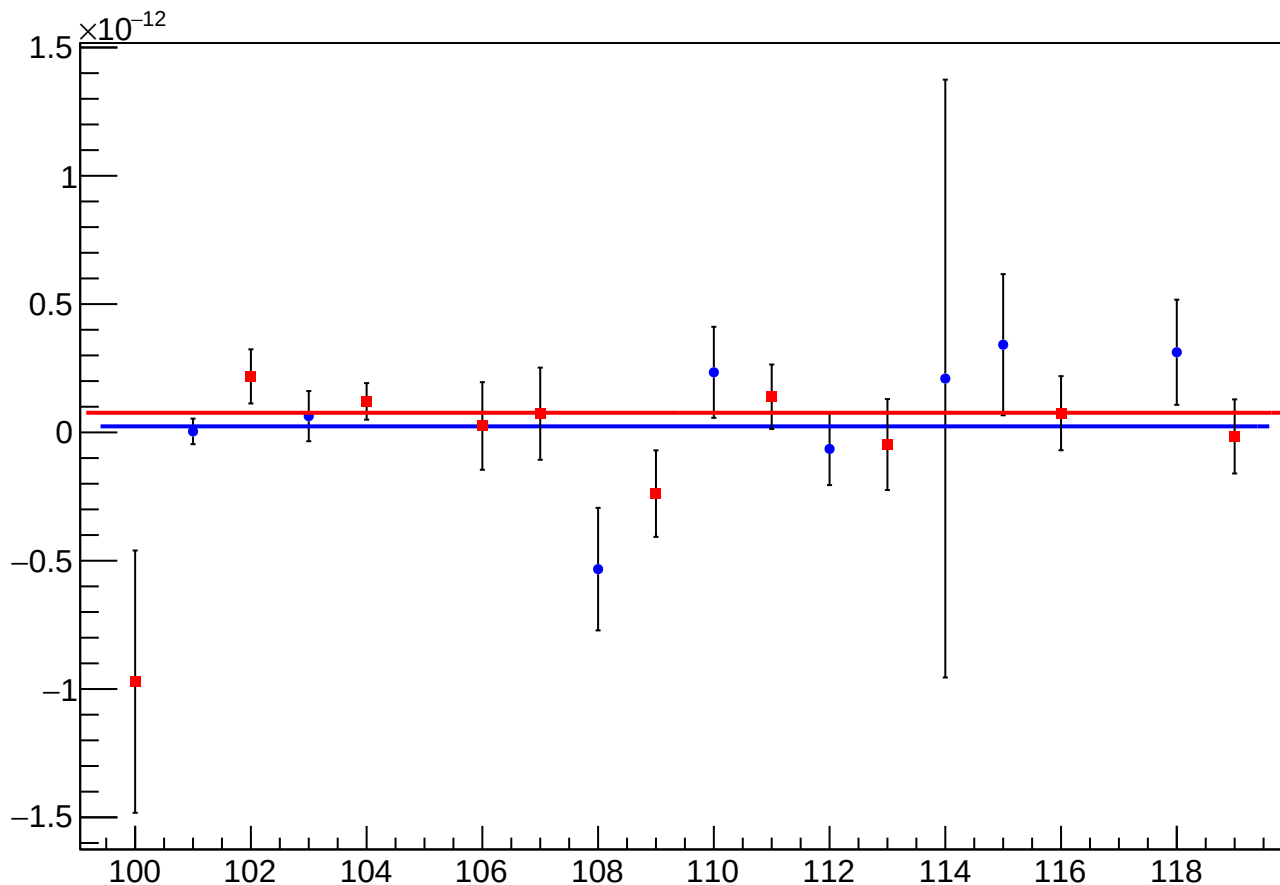
Right Out: 1965.020+/-0.706  $\chi^2/\text{NDF}$ : 177626.6/9

All: 2001.054+/-0.533  $\chi^2/\text{NDF}$ : 464931.1/17

- 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: 10.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.1/9

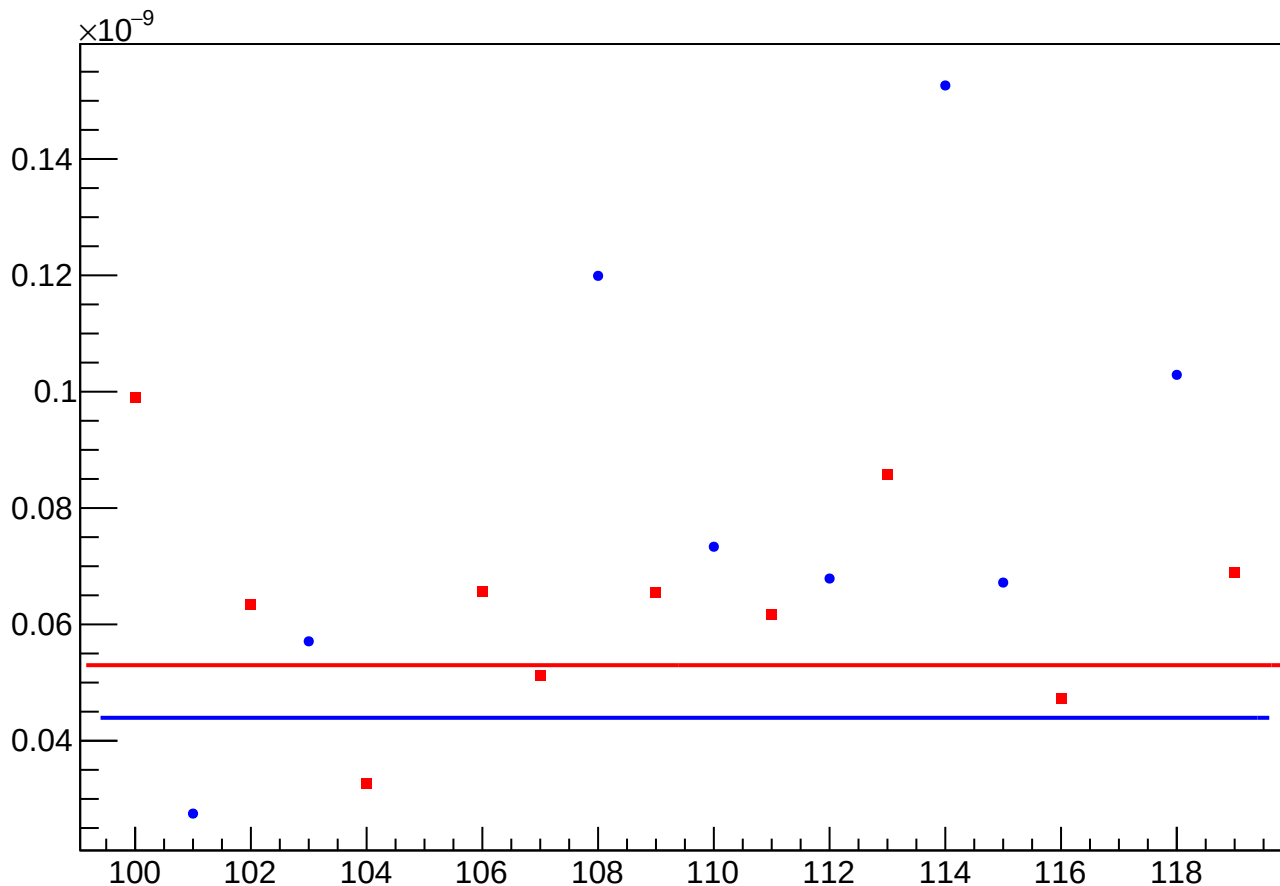
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 22.9/17

- 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  $\chi^2/\text{NDF}$ : 767066.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 327902.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

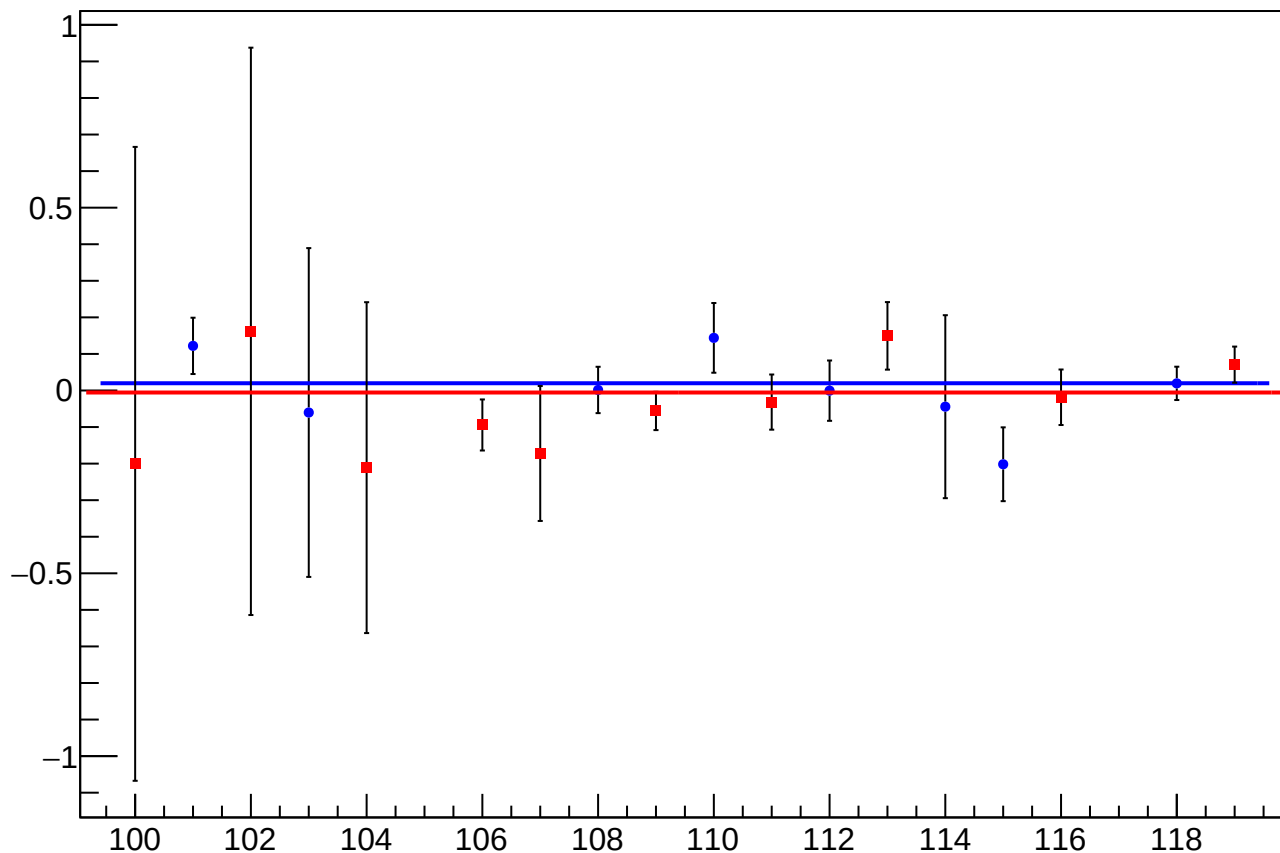
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1145037.5/17

- 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: 0.020 $\pm$ 0.028  $\chi^2$ /NDF: 8.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.006 $\pm$ 0.026  $\chi^2$ /NDF: 9.0/9

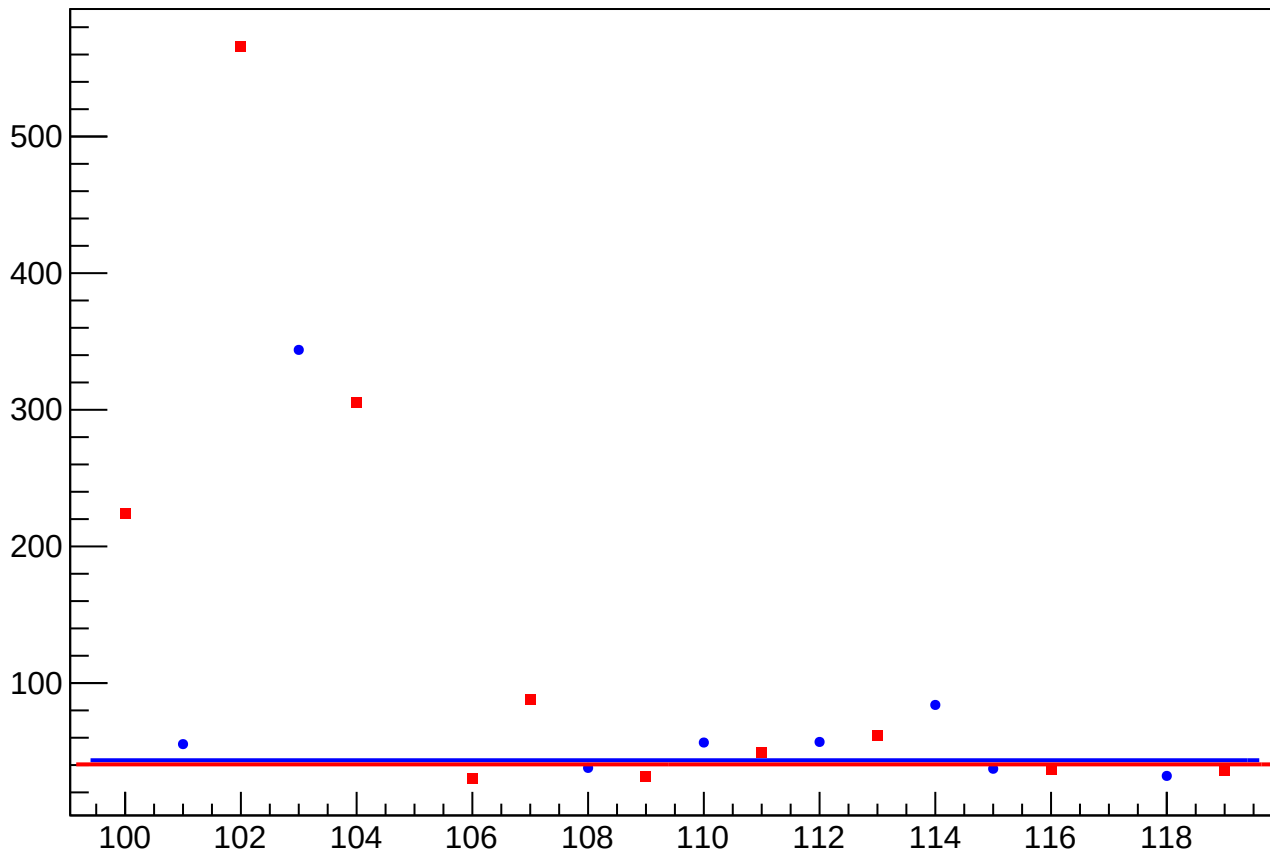
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.019  $\chi^2$ /NDF: 18.0/17

- 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: 43.519+/-0.020  $\chi^2/\text{NDF}$ : 1231025.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 40.496+/-0.018  $\chi^2/\text{NDF}$ : 2084771.8/9

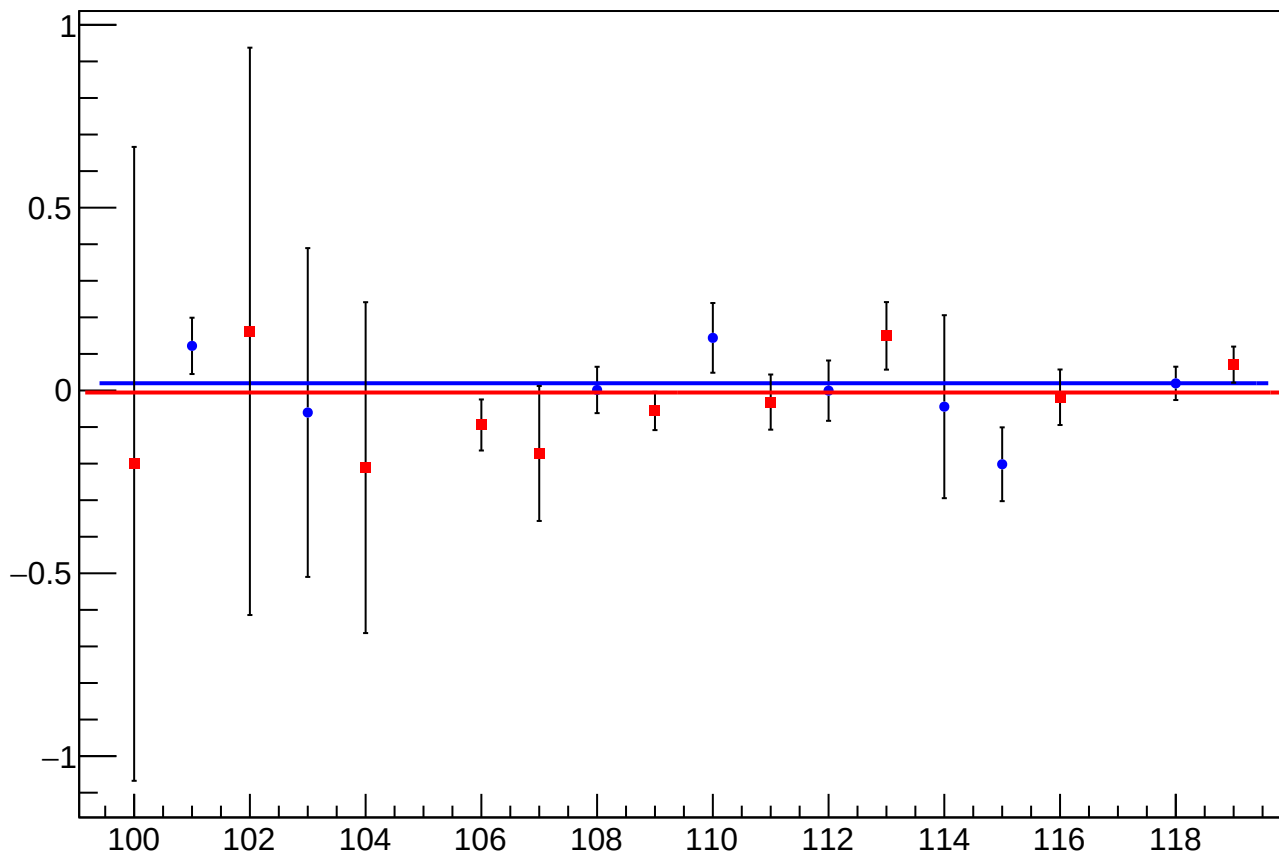
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.893+/-0.013  $\chi^2/\text{NDF}$ : 3328337.1/17

- sign 0.000+/-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: 0.020 $\pm$ 0.028  $\chi^2$ /NDF: 8.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.006 $\pm$ 0.026  $\chi^2$ /NDF: 9.0/9

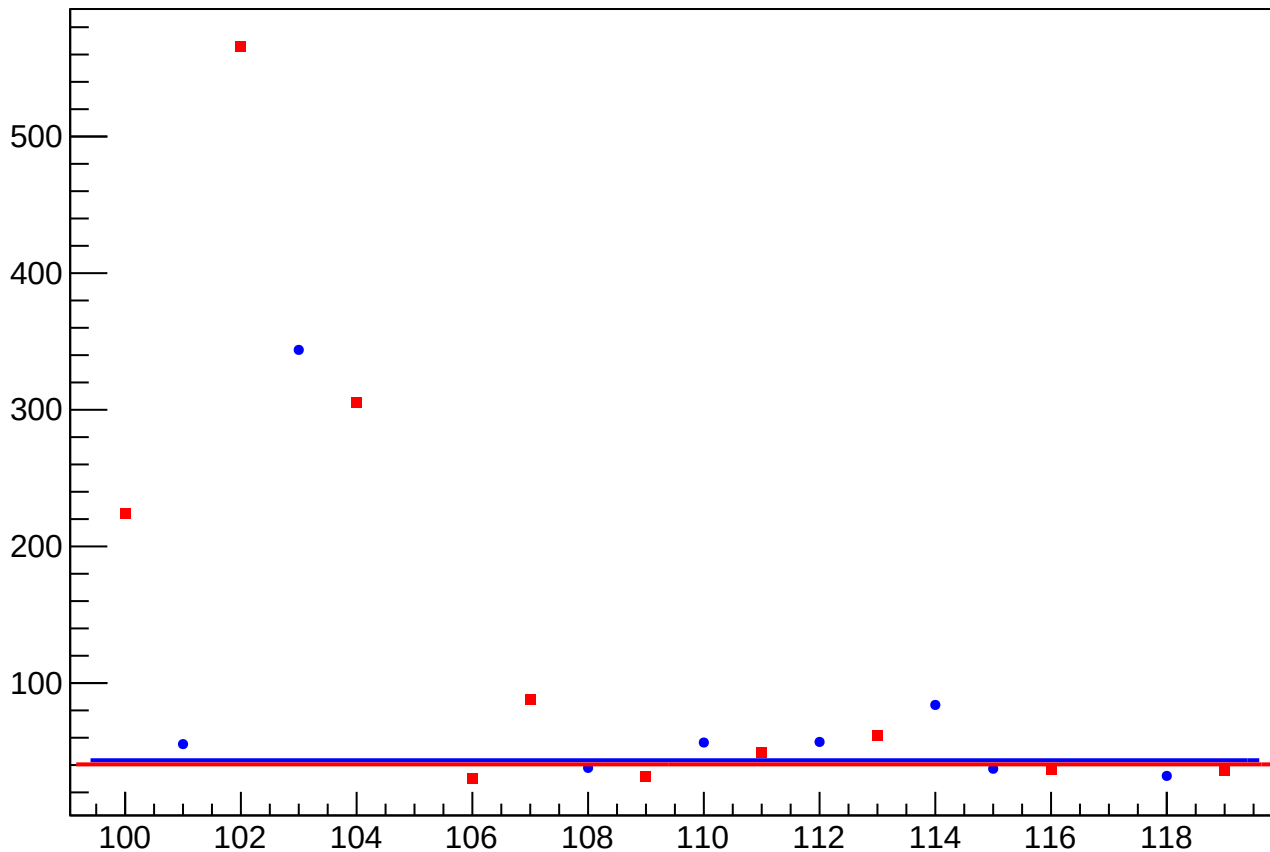
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.019  $\chi^2$ /NDF: 18.0/17

- 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: 43.519+/-0.020  $\chi^2/\text{NDF}$ : 1231025.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 40.496+/-0.018  $\chi^2/\text{NDF}$ : 2084771.8/9

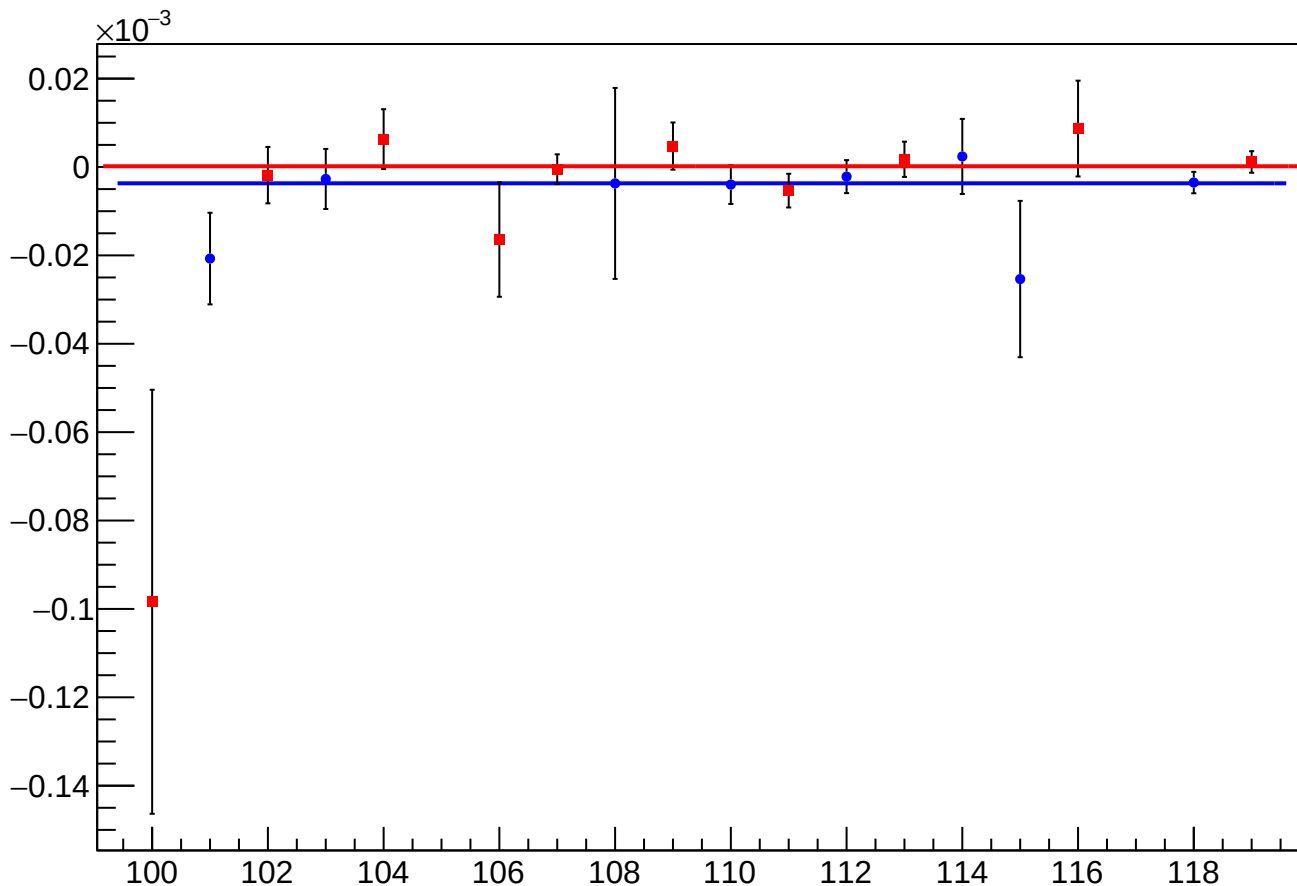
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.893+/-0.013  $\chi^2/\text{NDF}$ : 3328337.1/17

- 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  $\chi^2/\text{NDF}$ : 4.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.6/9

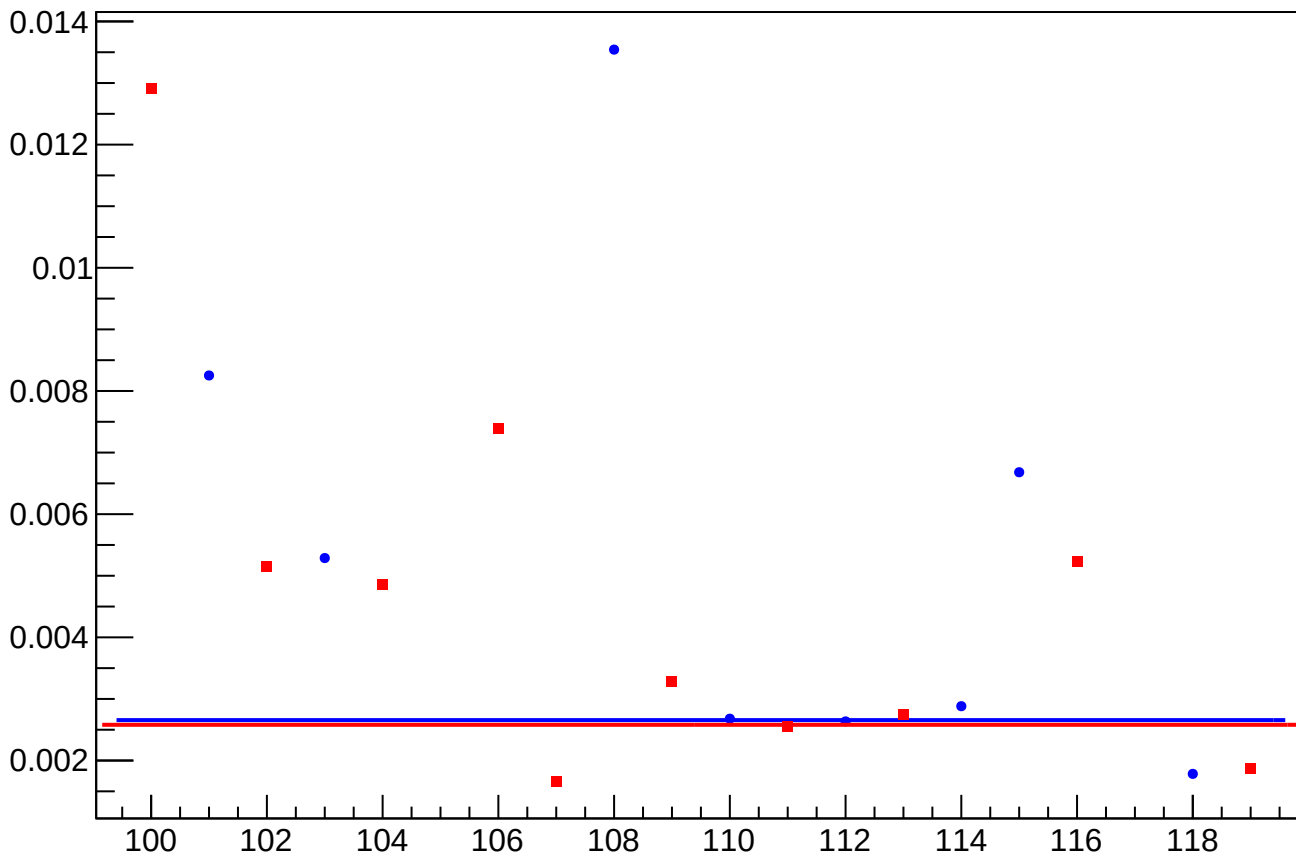
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1753494.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1395657.3/9

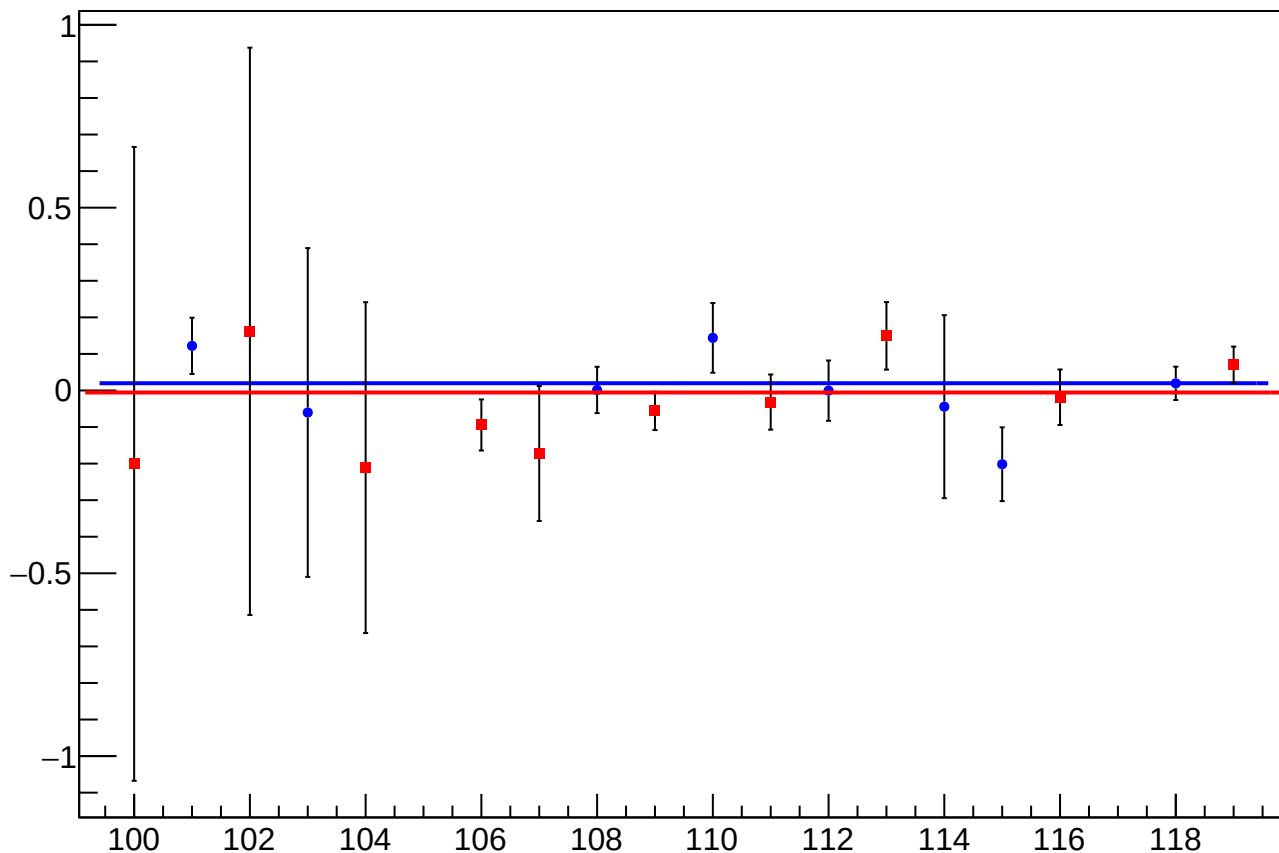
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 3151478.8/17

- 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: 0.020 $\pm$ 0.028  $\chi^2$ /NDF: 8.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.006 $\pm$ 0.026  $\chi^2$ /NDF: 9.0/9

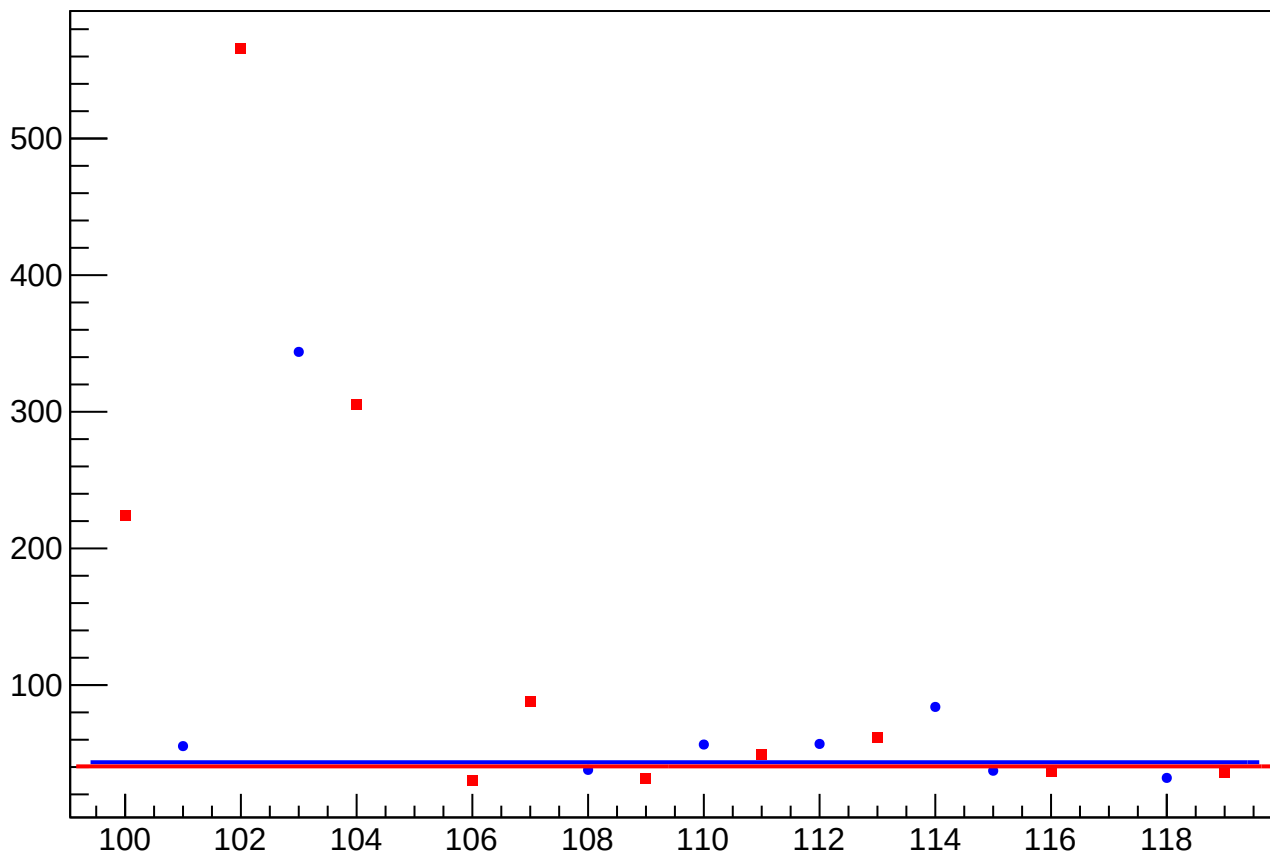
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.019  $\chi^2$ /NDF: 18.0/17

- 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: 43.521+/-0.020  $\chi^2/\text{NDF}$ : 1231004.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 40.494+/-0.018  $\chi^2/\text{NDF}$ : 2084814.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

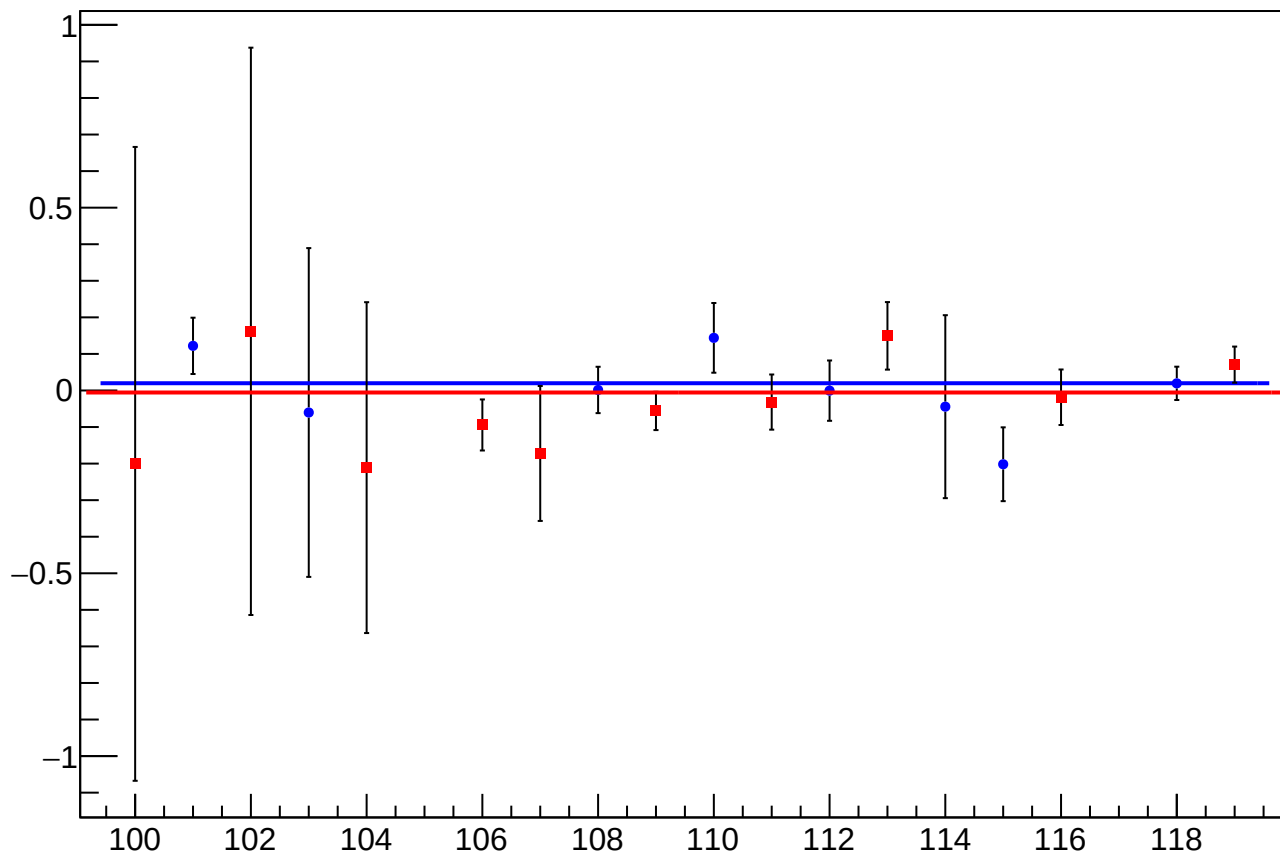
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.894+/-0.013  $\chi^2/\text{NDF}$ : 3328384.8/17

- 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:  $0.020 \pm 0.028$   $\chi^2/\text{NDF}$ : 8.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.006 \pm 0.026$   $\chi^2/\text{NDF}$ : 9.0/9

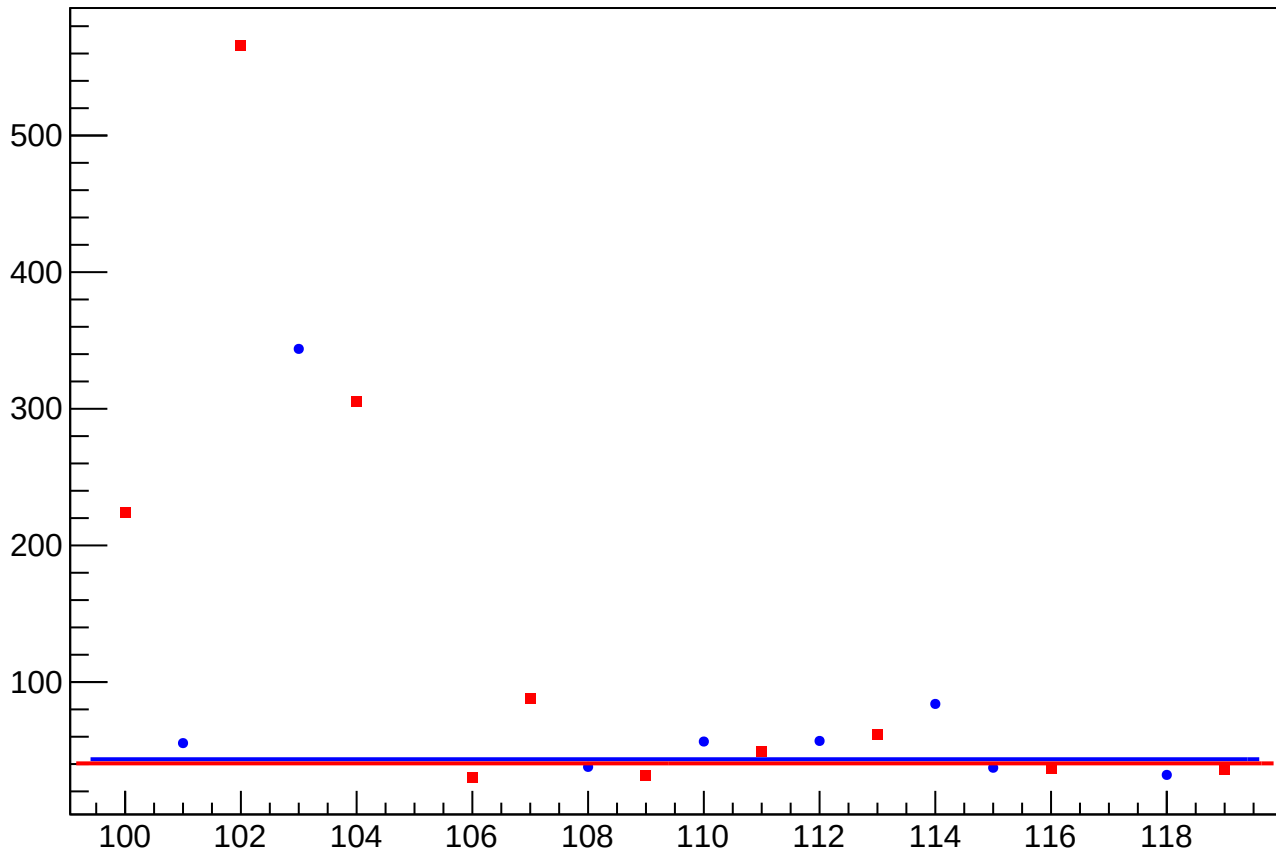
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.006 \pm 0.019$   $\chi^2/\text{NDF}$ : 18.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 43.521+/-0.020  $\chi^2/\text{NDF}$ : 1231004.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 40.494+/-0.018  $\chi^2/\text{NDF}$ : 2084814.6/9

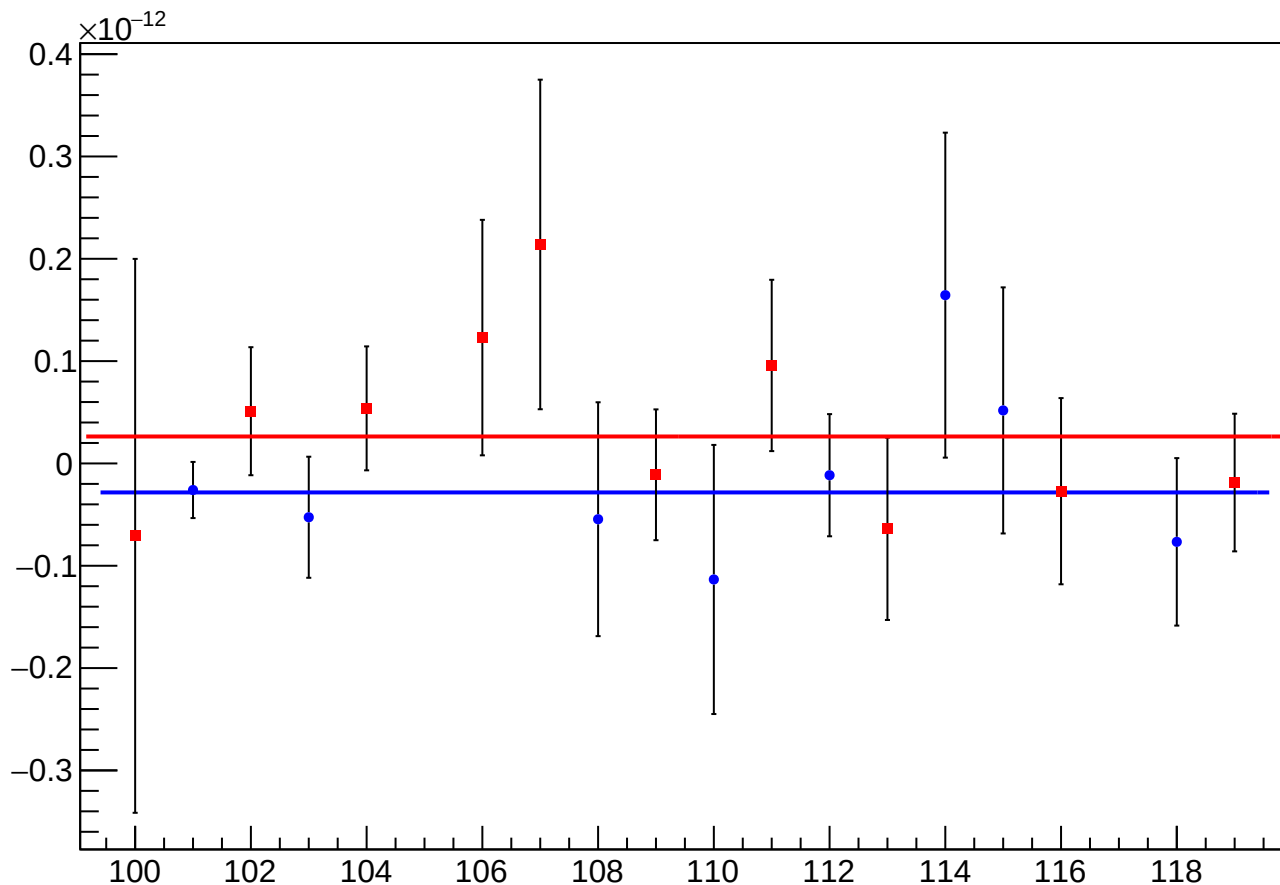
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.894+/-0.013  $\chi^2/\text{NDF}$ : 3328384.8/17

- 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  $\chi^2/\text{NDF}$ : 3.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.4/9

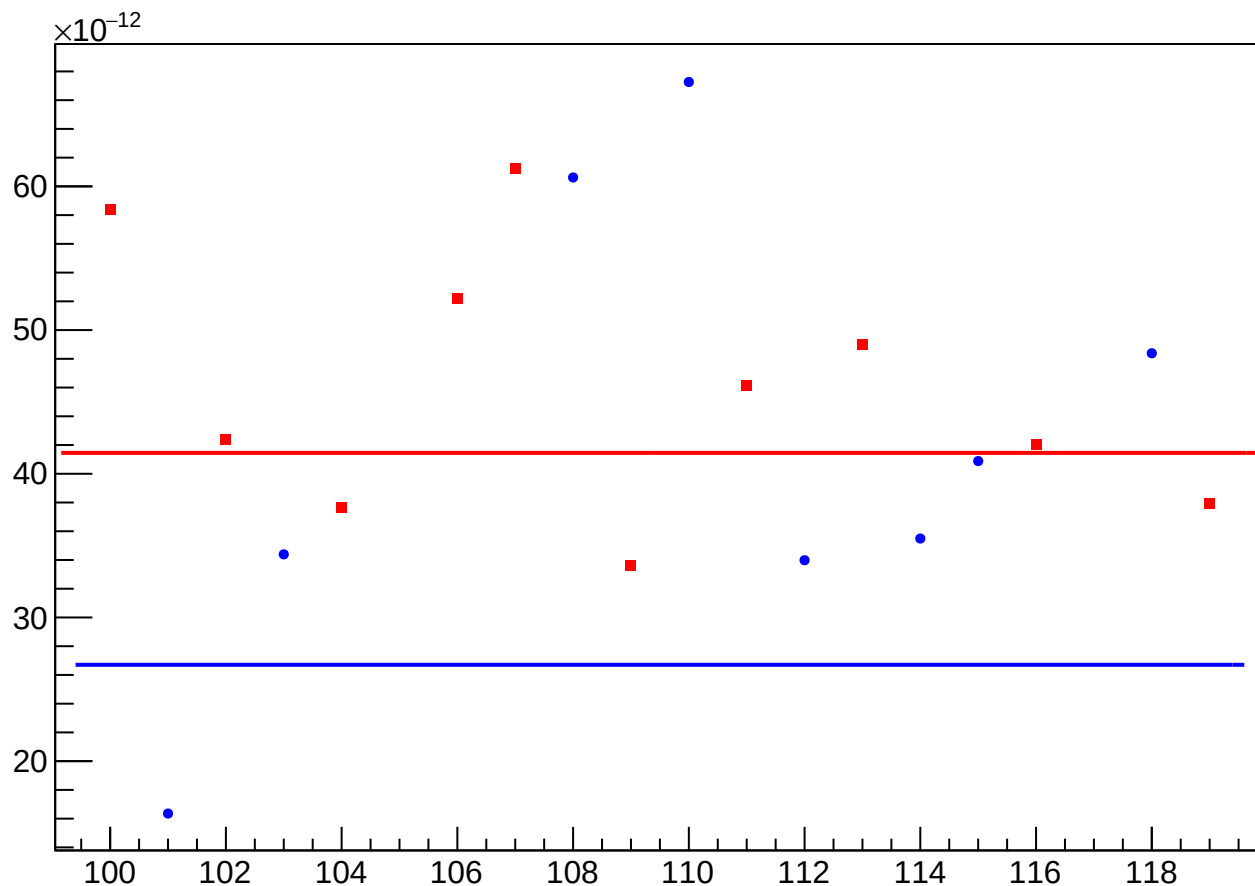
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.1/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 888748.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 120156.2/9

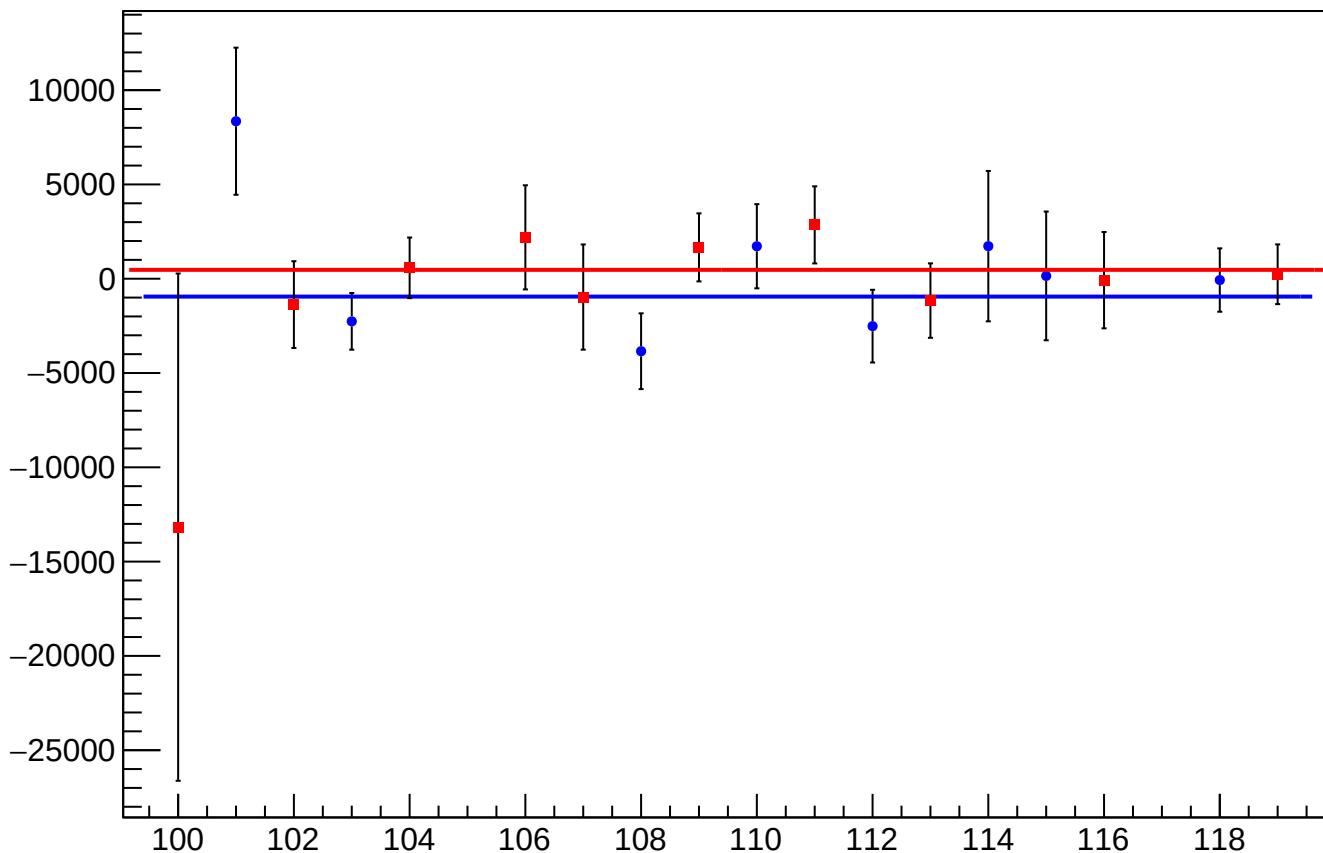
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1404736.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -947.654+/-760.329  $\chi^2/\text{NDF}$ : 11.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 470.574+/-674.645  $\chi^2/\text{NDF}$ : 4.9/9

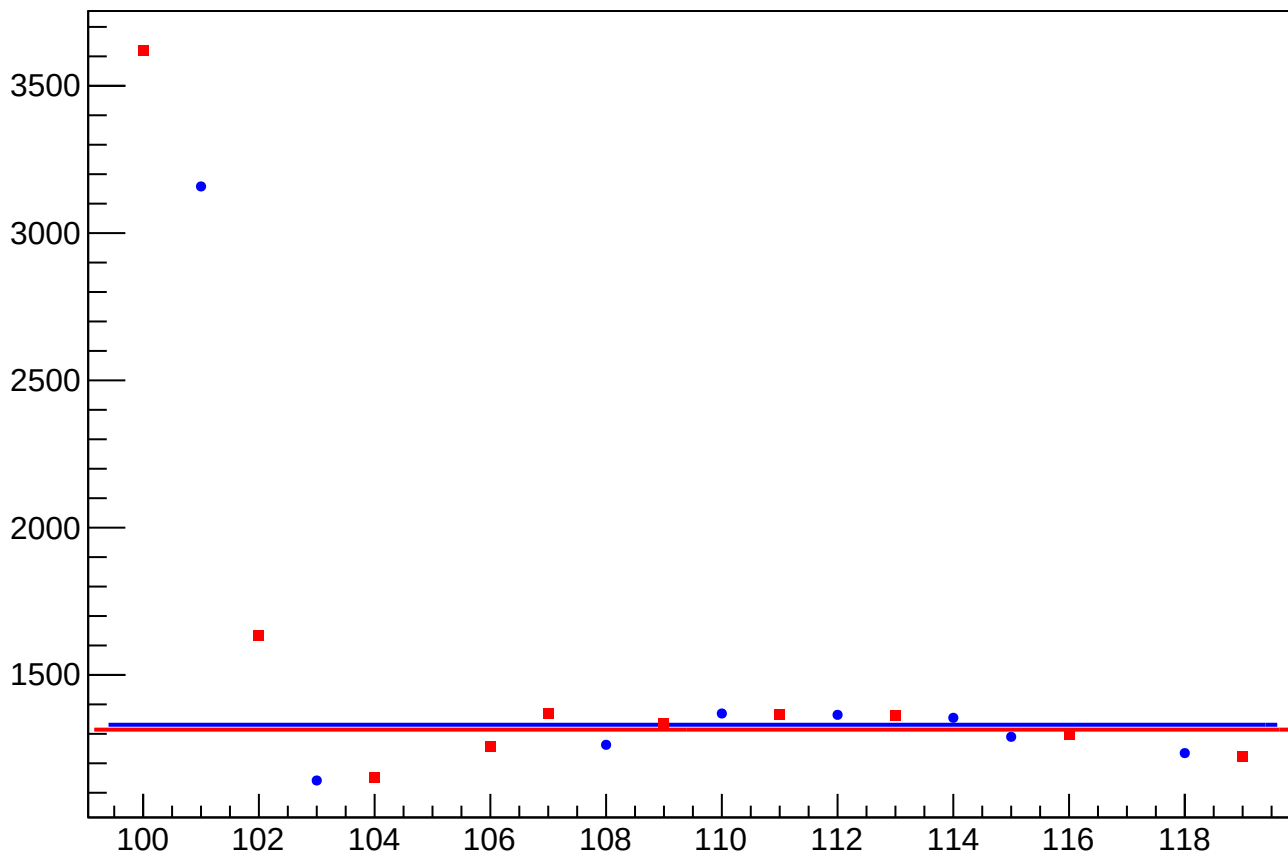
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -154.157+/-504.632  $\chi^2/\text{NDF}$ : 18.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 1330.854+/-0.538  $\chi^2/\text{NDF}$ : 481305.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1314.269+/-0.475  $\chi^2/\text{NDF}$ : 129408.9/9

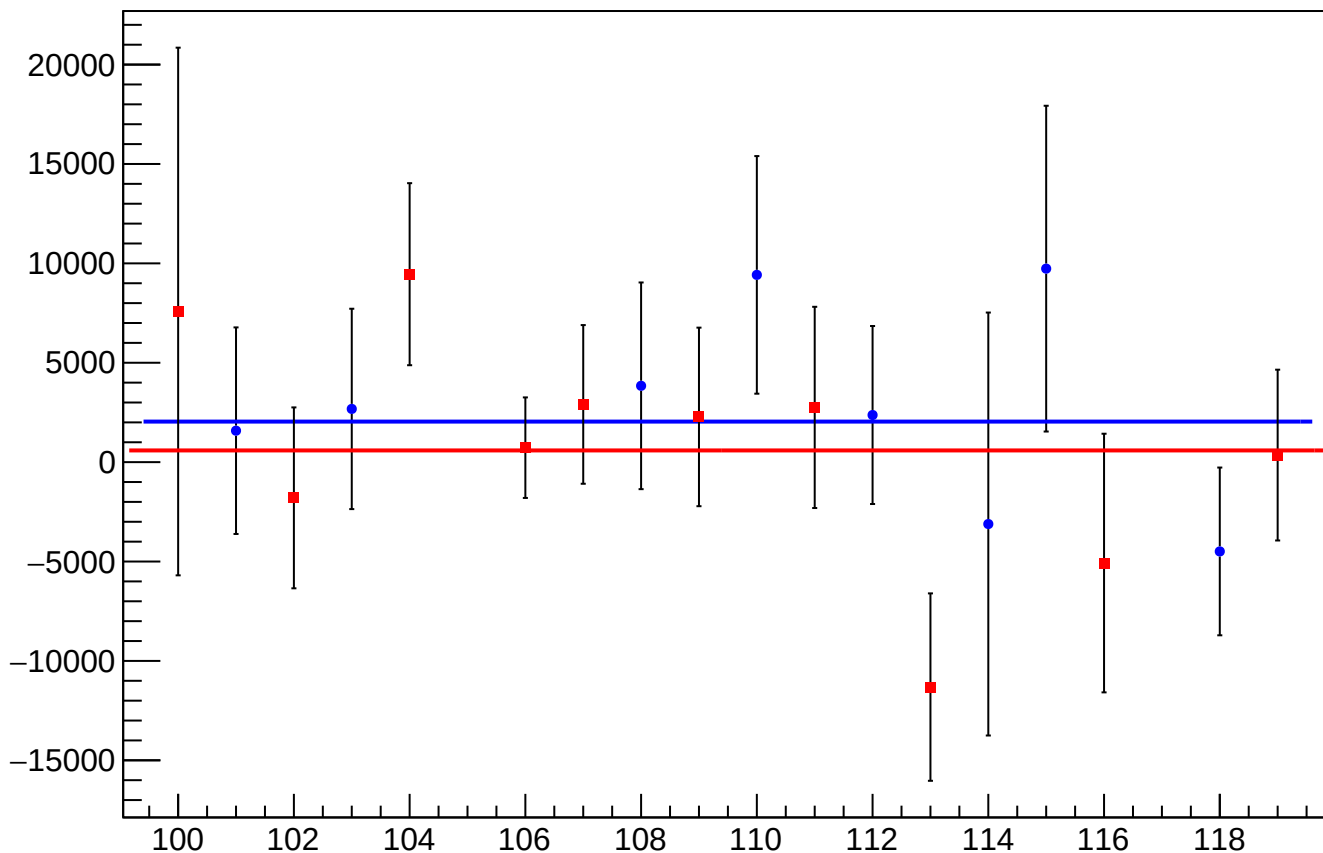
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1321.534+/-0.356  $\chi^2/\text{NDF}$ : 611249.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_reg\_correction\_mean vs Slug



Right In: 2040.334 $\pm$ 1920.326  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 589.123 $\pm$ 1370.763  $\chi^2$ /NDF: 12.1/9

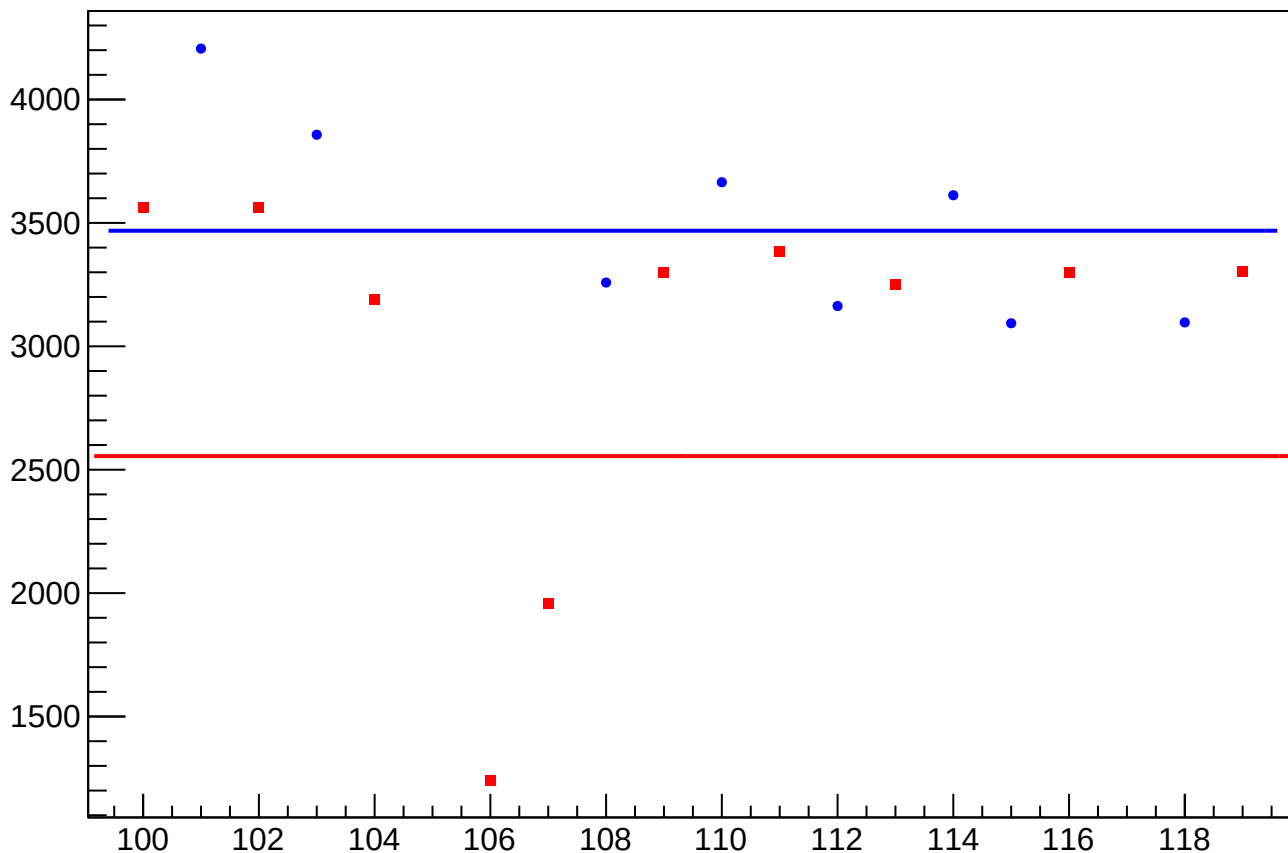
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1078.971 $\pm$ 1115.682  $\chi^2$ /NDF: 17.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_reg\_correction\_rms vs Slug



Right In: 3468.347 $\pm$ 1.358  $\chi^2$ /NDF: 87021.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2554.988 $\pm$ 0.969  $\chi^2$ /NDF: 970662.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

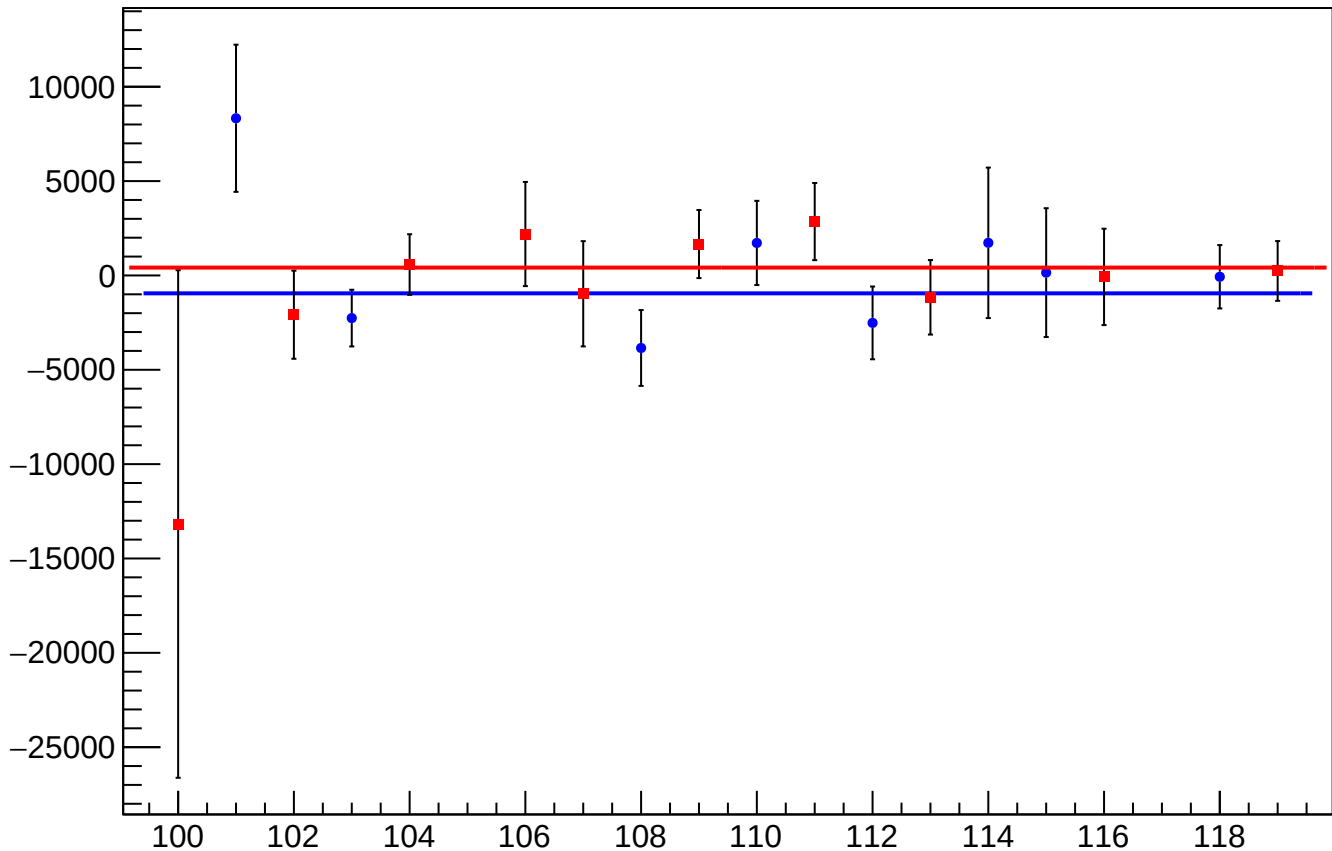
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2863.288 $\pm$ 0.789  $\chi^2$ /NDF: 1357406.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# cor\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -948.478+/-760.329  $\chi^2/\text{NDF}$ : 11.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 415.983+/-675.503  $\chi^2/\text{NDF}$ : 5.4/9

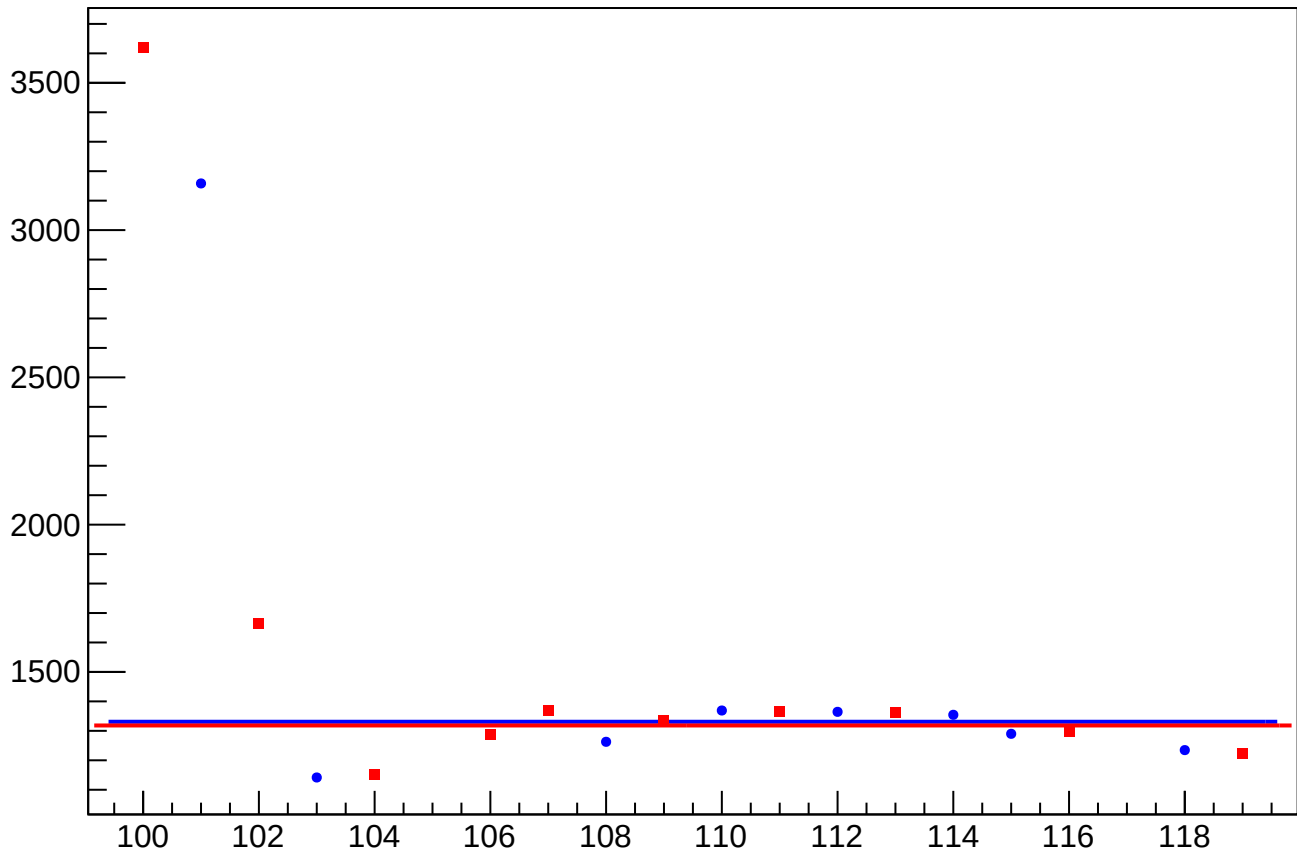
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -185.918+/-504.991  $\chi^2/\text{NDF}$ : 18.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 1330.854+/-0.538  $\chi^2/\text{NDF}$ : 481307.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1318.227+/-0.476  $\chi^2/\text{NDF}$ : 135367.2/9

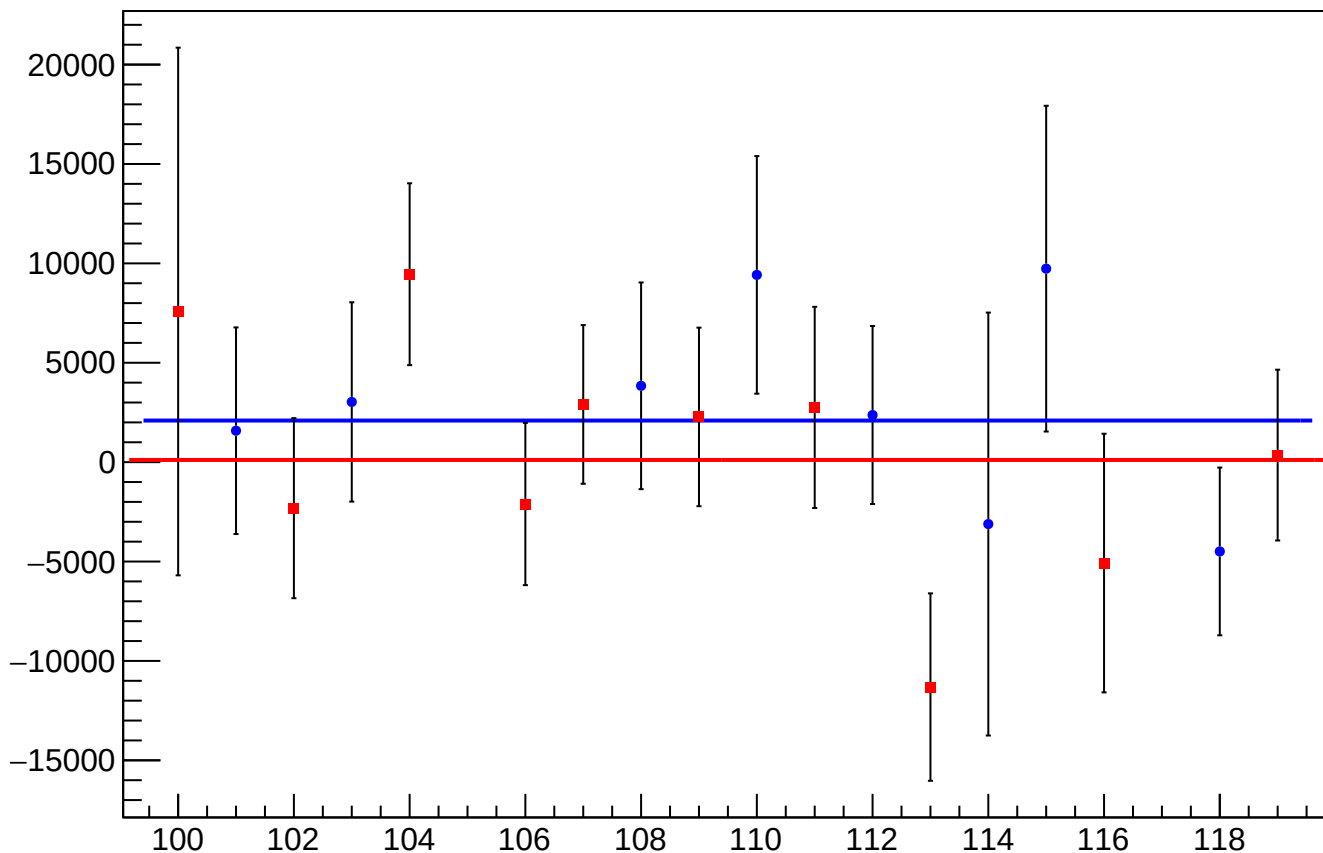
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1323.775+/-0.356  $\chi^2/\text{NDF}$ : 616983.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_cor\_correction\_mean vs Slug



Right In: 2092.588+/-1918.942  $\chi^2/\text{NDF}$ : 5.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.453+/-1513.776  $\chi^2/\text{NDF}$ : 12.6/9

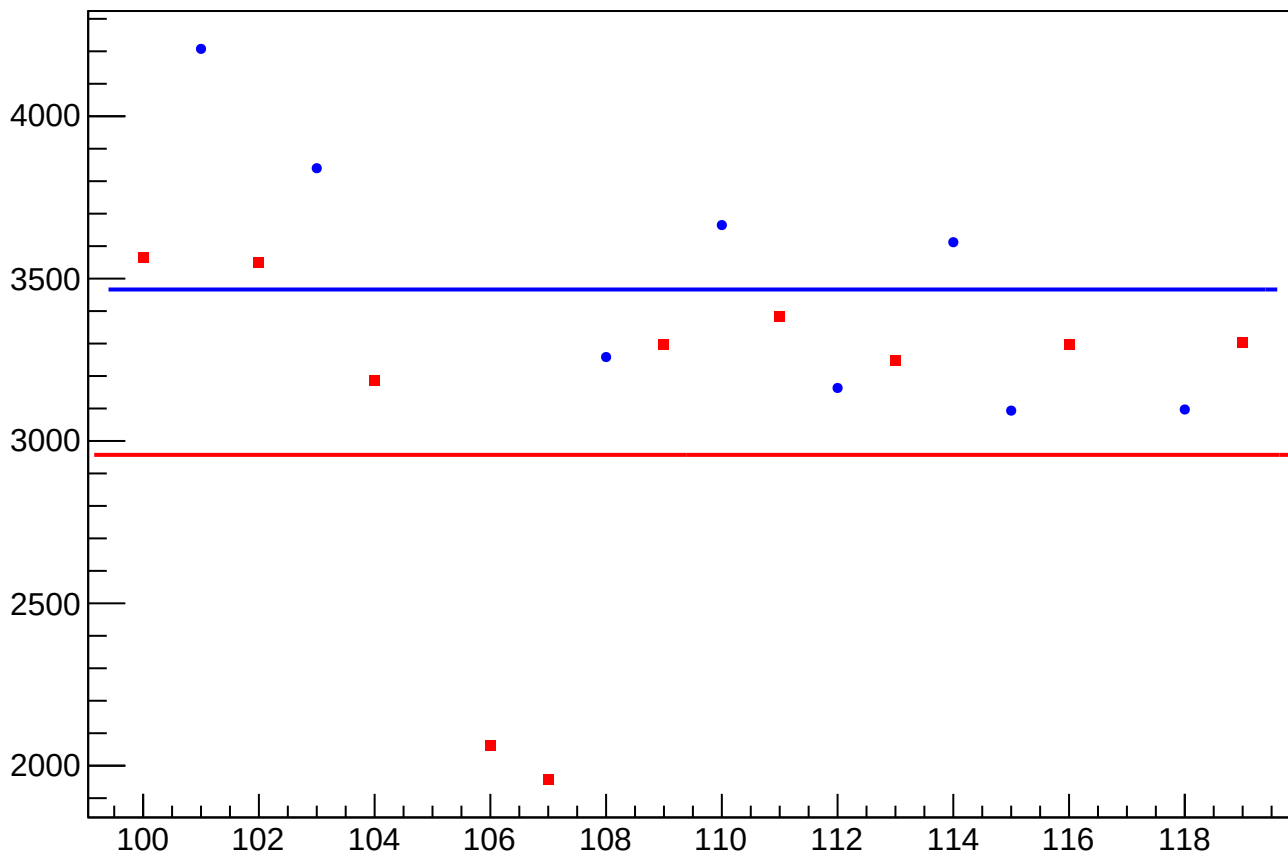
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 870.782+/-1188.491  $\chi^2/\text{NDF}$ : 18.4/17

- 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: 3466.488+/-1.357  $\chi^2/\text{NDF}$ : 86197.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2957.186+/-1.070  $\chi^2/\text{NDF}$ : 317255.0/9

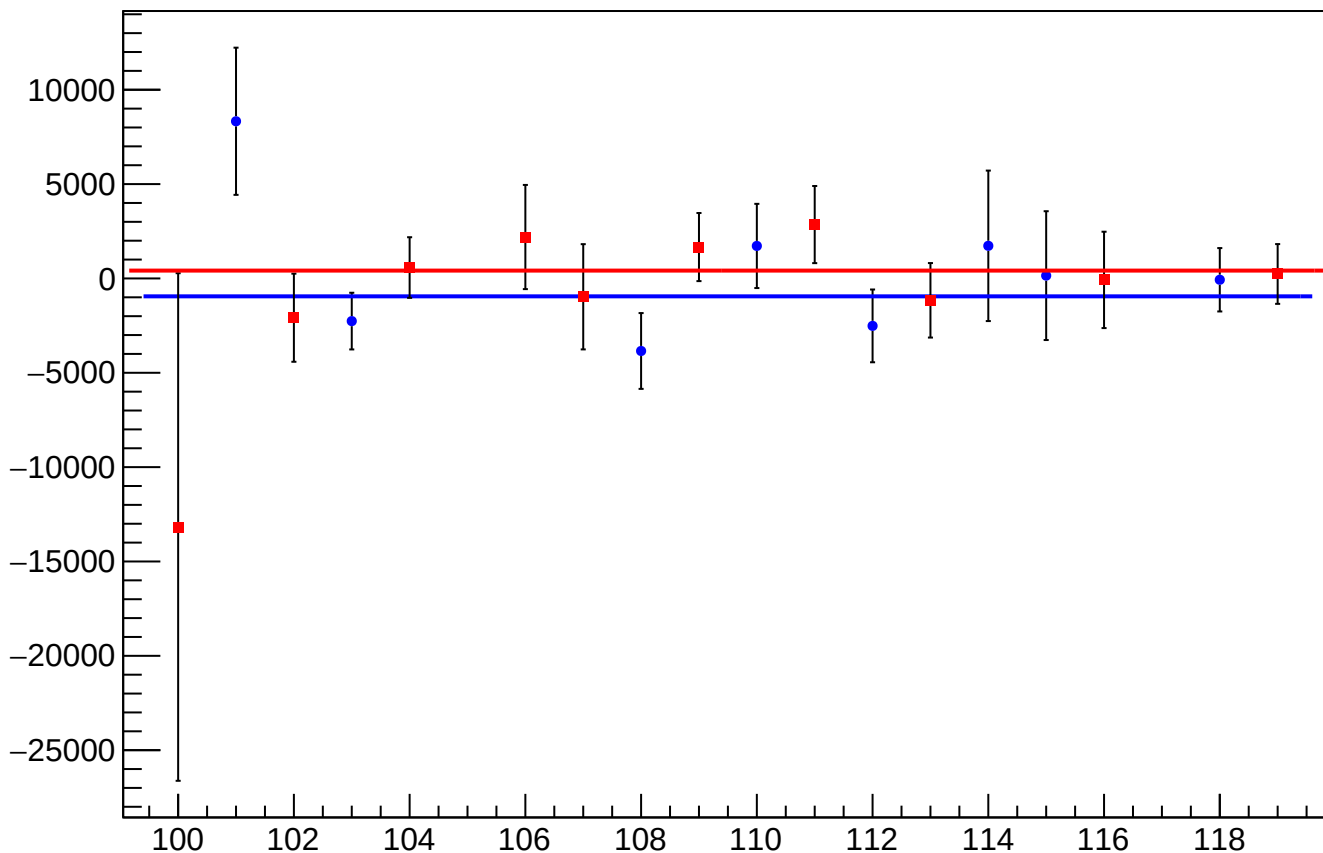
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3152.549+/-0.840  $\chi^2/\text{NDF}$ : 490293.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -948.478+/-760.329  $\chi^2/\text{NDF}$ : 11.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 415.983+/-675.503  $\chi^2/\text{NDF}$ : 5.4/9

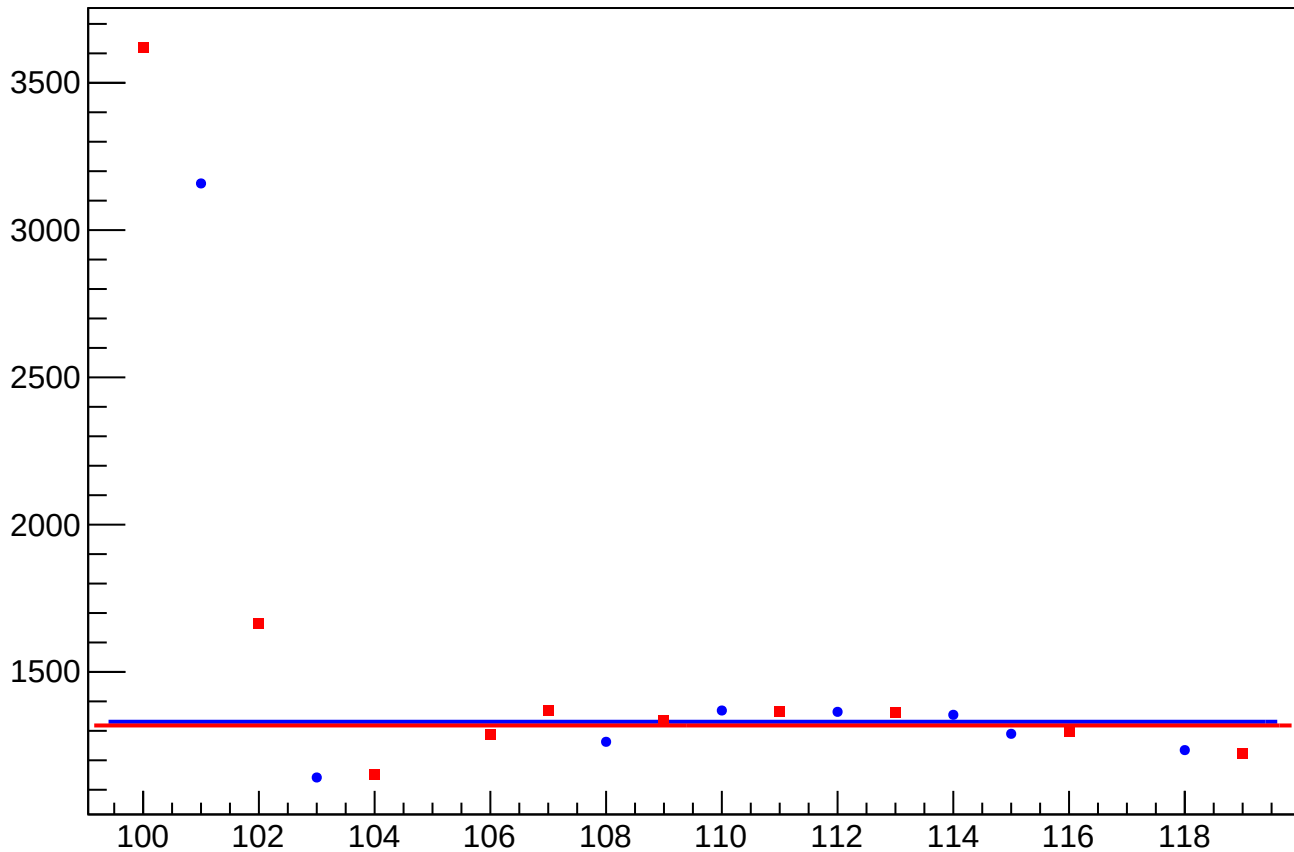
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -185.918+/-504.991  $\chi^2/\text{NDF}$ : 18.6/17

- 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: 1330.854+/-0.538  $\chi^2/\text{NDF}$ : 481307.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1318.227+/-0.476  $\chi^2/\text{NDF}$ : 135367.2/9

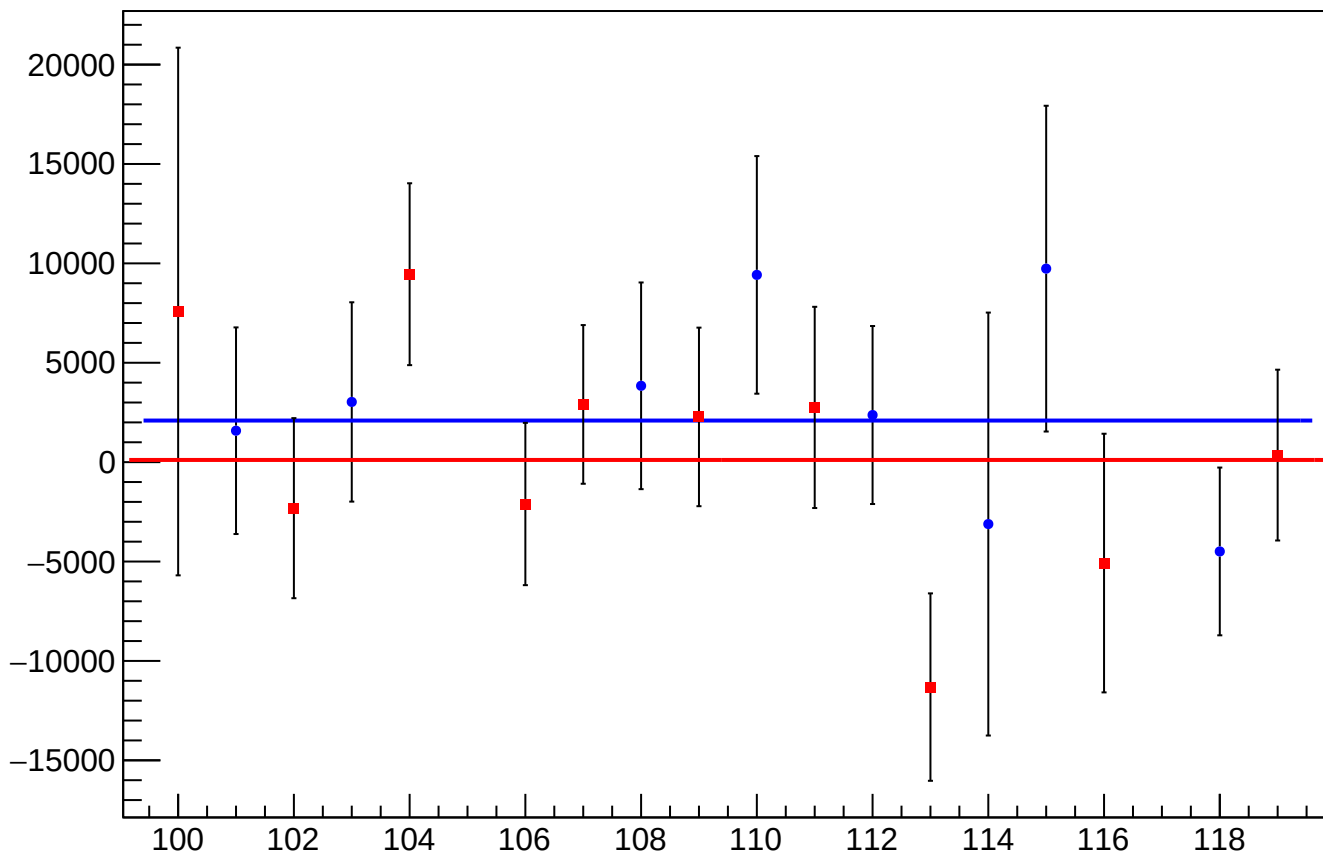
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1323.775+/-0.356  $\chi^2/\text{NDF}$ : 616983.4/17

- 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: 2092.588+/-1918.942  $\chi^2/\text{NDF}$ : 5.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.453+/-1513.776  $\chi^2/\text{NDF}$ : 12.6/9

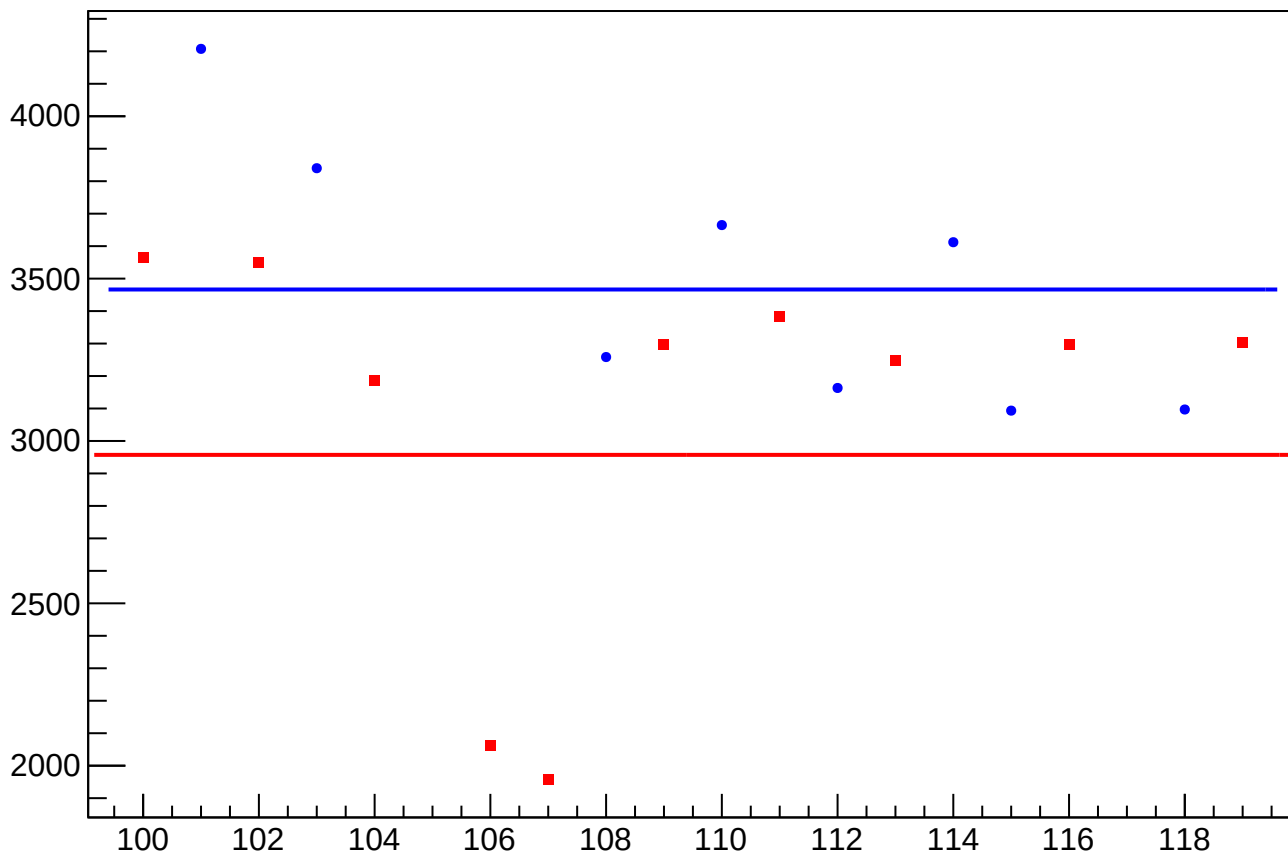
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 870.782+/-1188.491  $\chi^2/\text{NDF}$ : 18.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3466.488+/-1.357  $\chi^2/\text{NDF}$ : 86197.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2957.186+/-1.070  $\chi^2/\text{NDF}$ : 317255.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

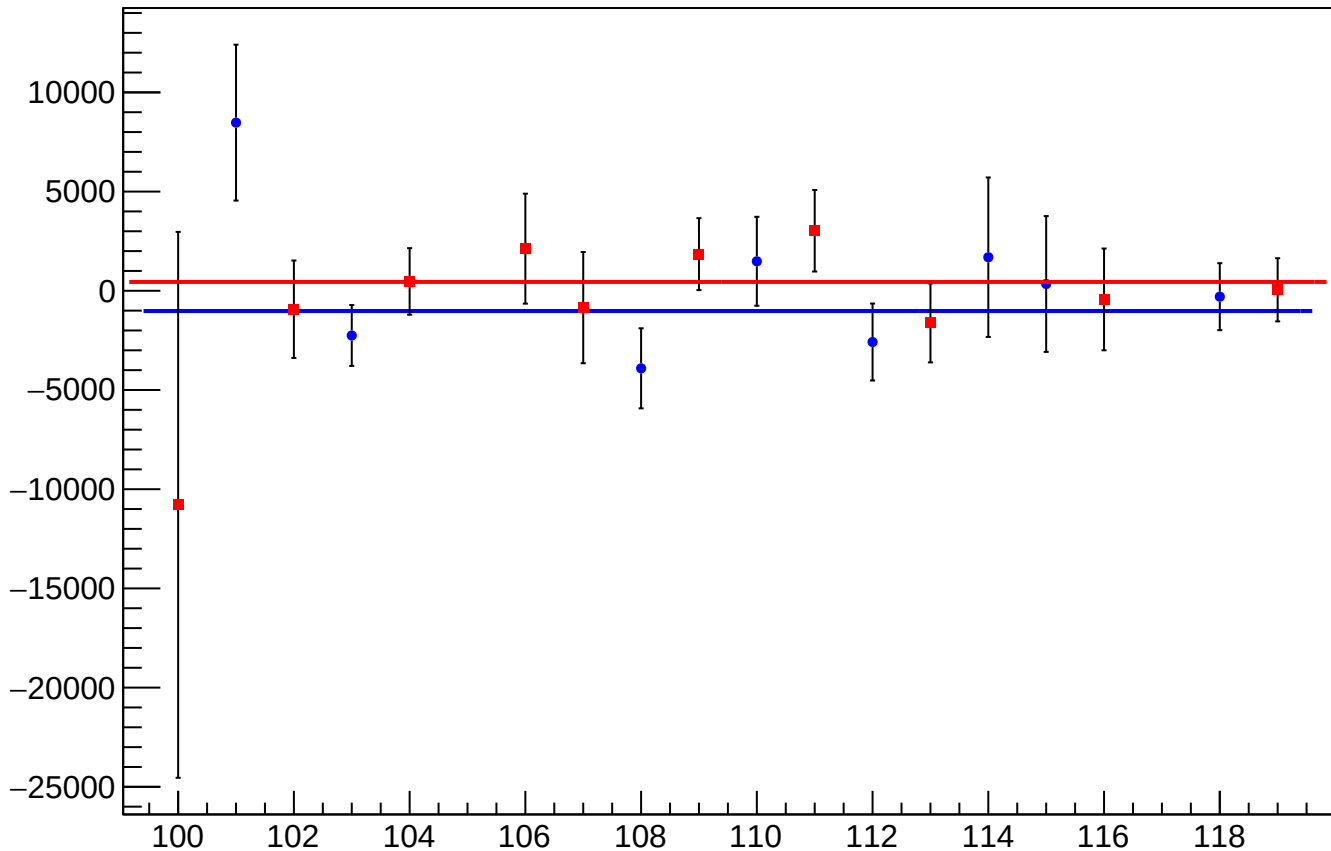
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3152.549+/-0.840  $\chi^2/\text{NDF}$ : 490293.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -1018.249±767.356  $\chi^2/\text{NDF}$ : 11.2/7

Left Out: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 446.283±685.988  $\chi^2/\text{NDF}$ : 5.0/9

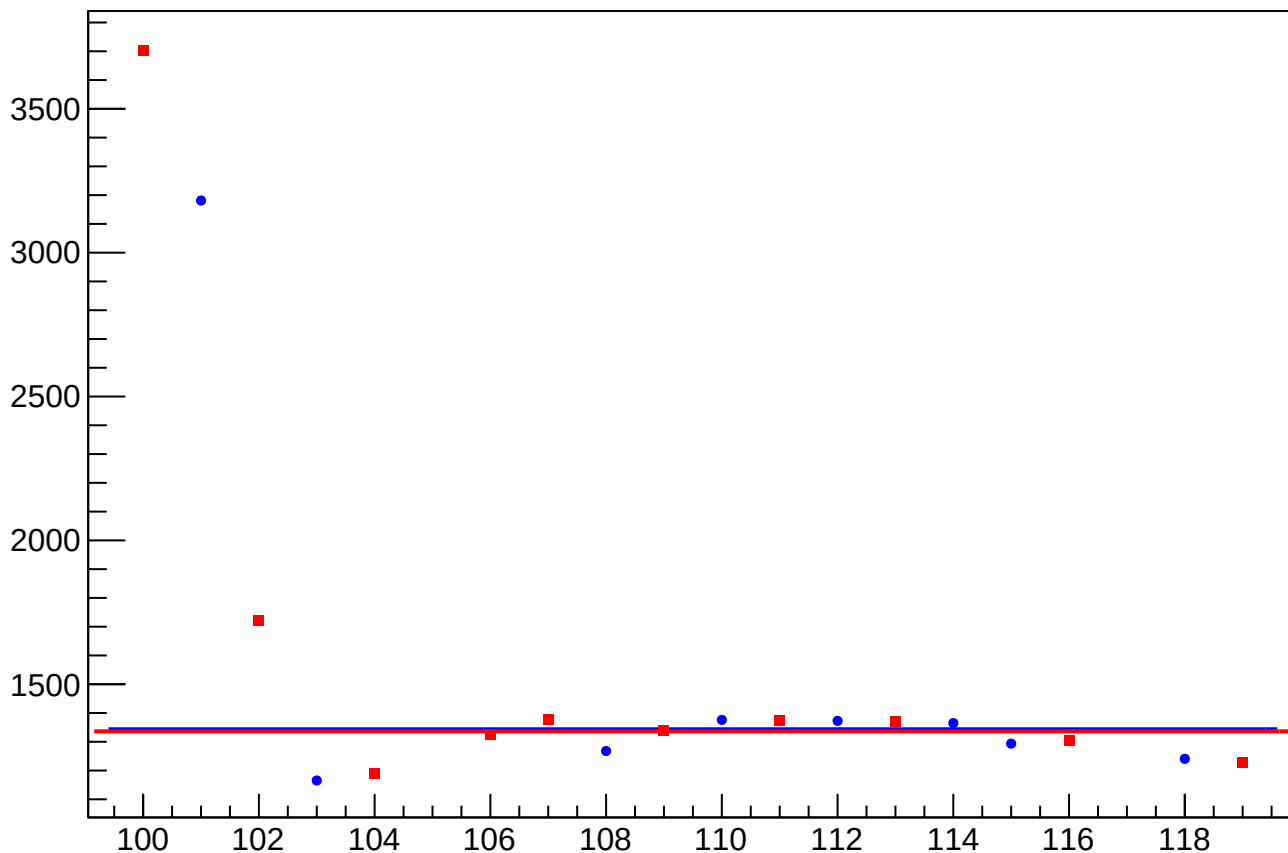
Left In: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -204.245±511.423  $\chi^2/\text{NDF}$ : 18.3/17

- sign 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 1343.497 $\pm$ 0.543  $\chi^2$ /NDF: 476053.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1336.319 $\pm$ 0.484  $\chi^2$ /NDF: 134582.2/9

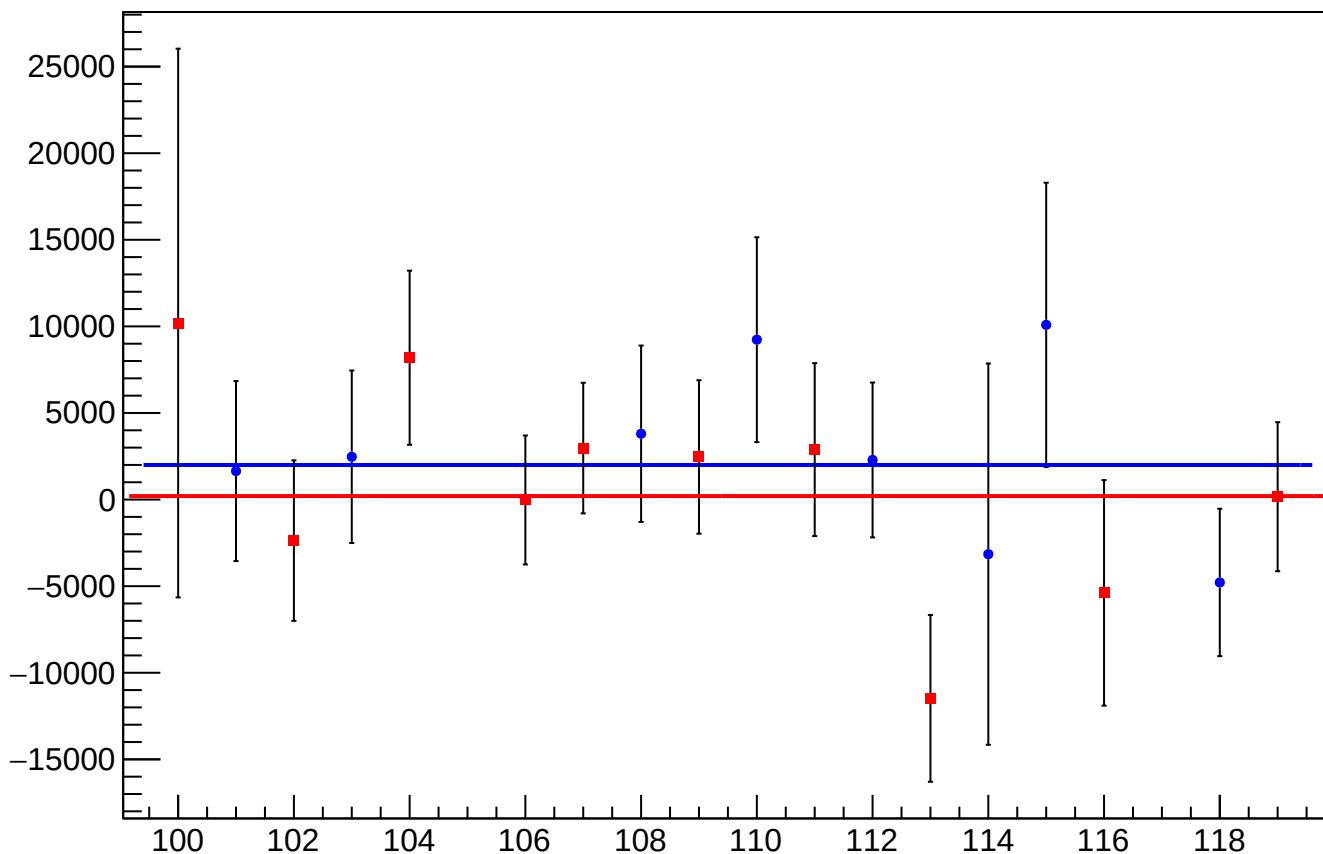
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1339.502 $\pm$ 0.361  $\chi^2$ /NDF: 610732.7/17

- 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: 1997.194+/-1914.404  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 202.496+/-1500.109  $\chi^2/\text{NDF}$ : 10.9/9

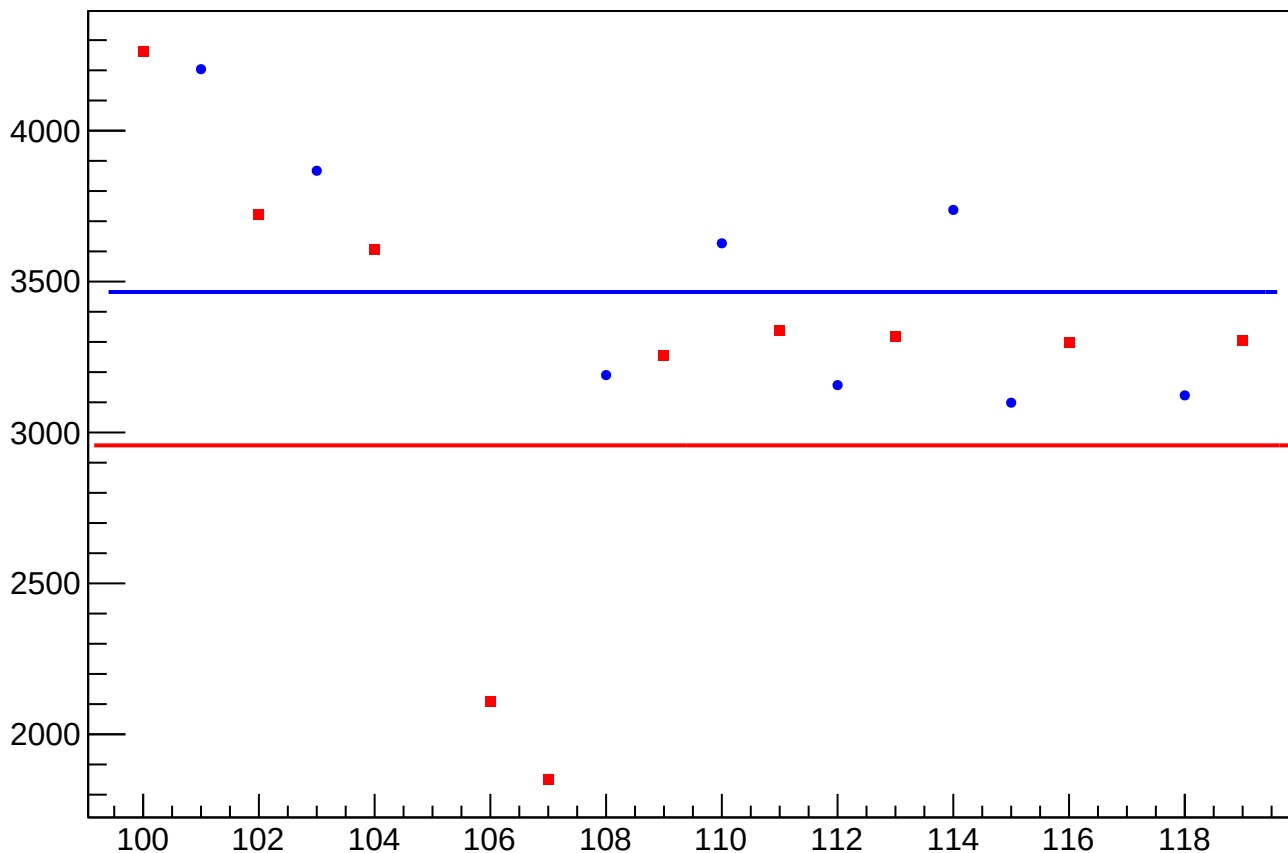
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 885.247+/-1180.780  $\chi^2/\text{NDF}$ : 16.9/17

- 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: 3465.464+/-1.354  $\chi^2/\text{NDF}$ : 88418.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2957.346+/-1.061  $\chi^2/\text{NDF}$ : 428864.4/9

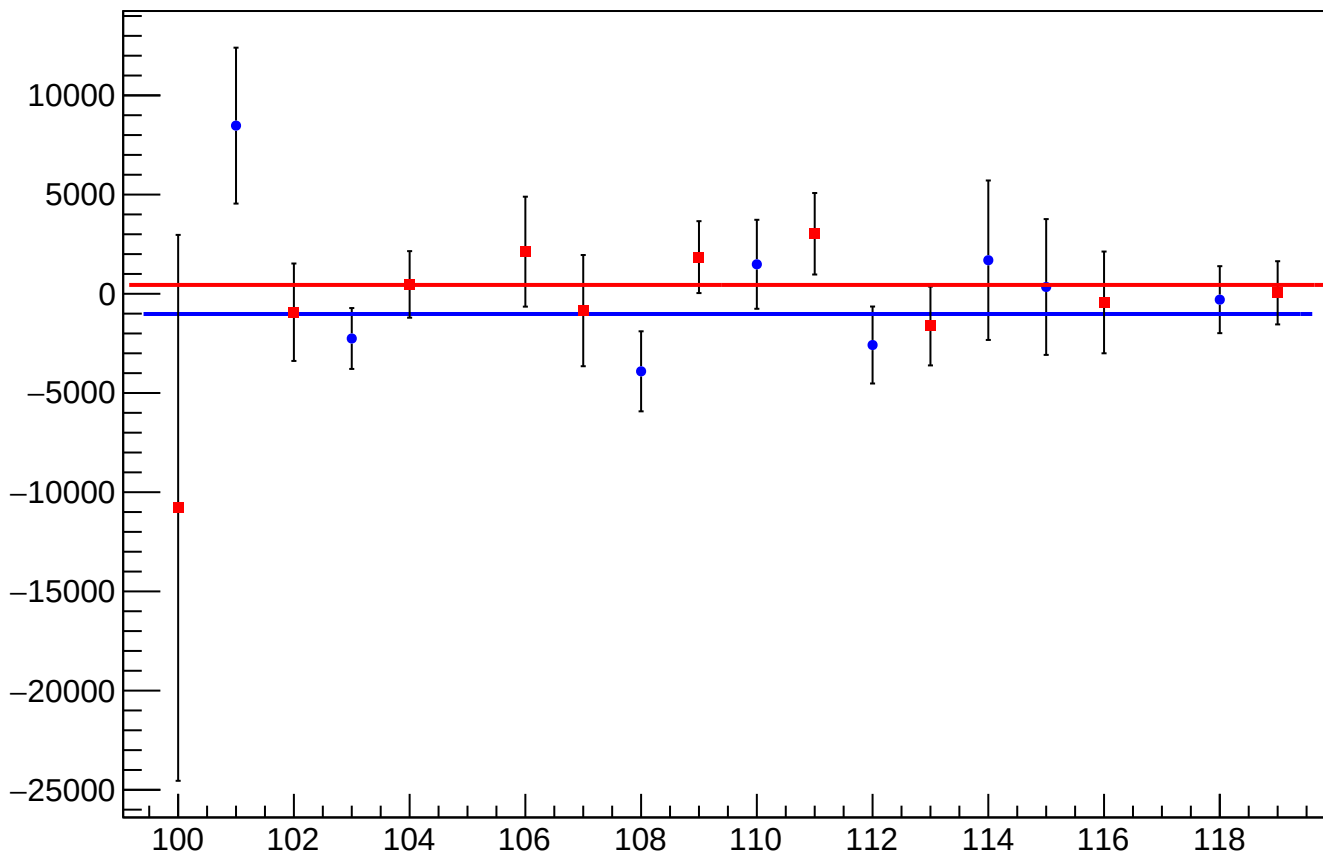
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3150.648+/-0.835  $\chi^2/\text{NDF}$ : 604577.6/17

- 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: -1018.252 $\pm$ 767.356  $\chi^2$ /NDF: 11.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 446.292 $\pm$ 685.988  $\chi^2$ /NDF: 5.0/9

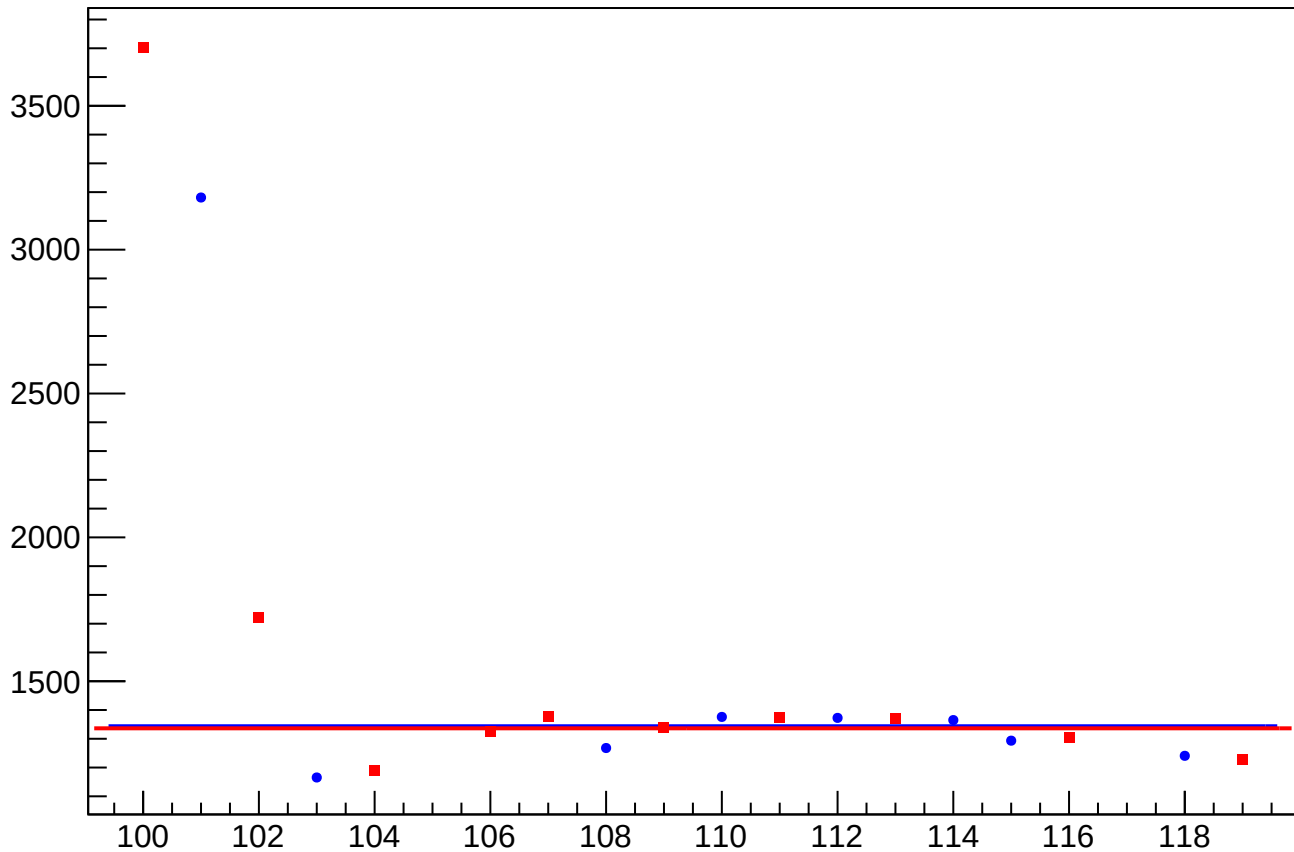
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -204.242 $\pm$ 511.423  $\chi^2$ /NDF: 18.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 1343.497+/-0.543  $\chi^2/\text{NDF}$ : 476053.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1336.319+/-0.484  $\chi^2/\text{NDF}$ : 134582.2/9

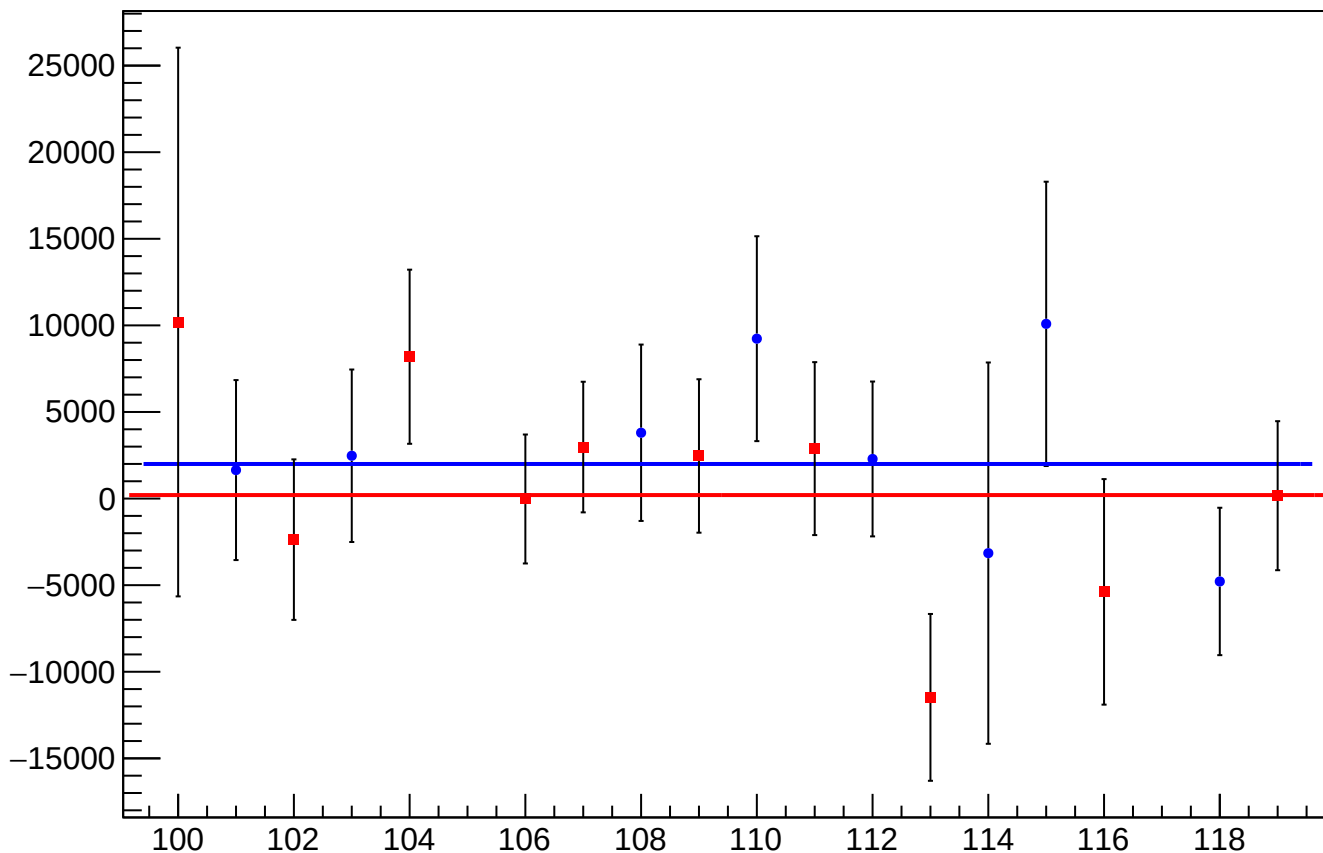
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1339.502+/-0.361  $\chi^2/\text{NDF}$ : 610732.8/17

- 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: 1997.186+/-1914.399  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 202.501+/-1500.106  $\chi^2/\text{NDF}$ : 10.9/9

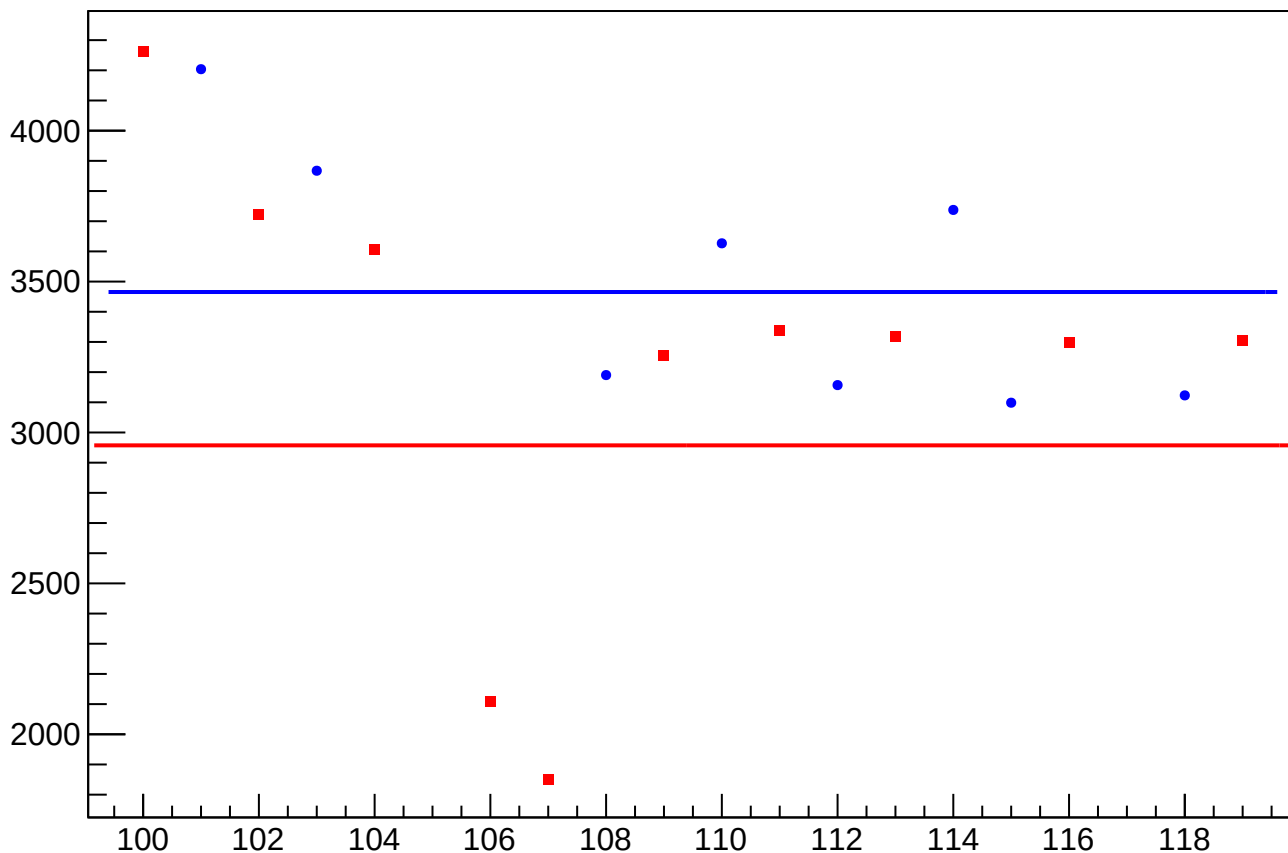
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 885.247+/-1180.778  $\chi^2/\text{NDF}$ : 16.9/17

- 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: 3465.456 $\pm$ 1.354  $\chi^2$ /NDF: 88420.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2957.339 $\pm$ 1.061  $\chi^2$ /NDF: 428866.2/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

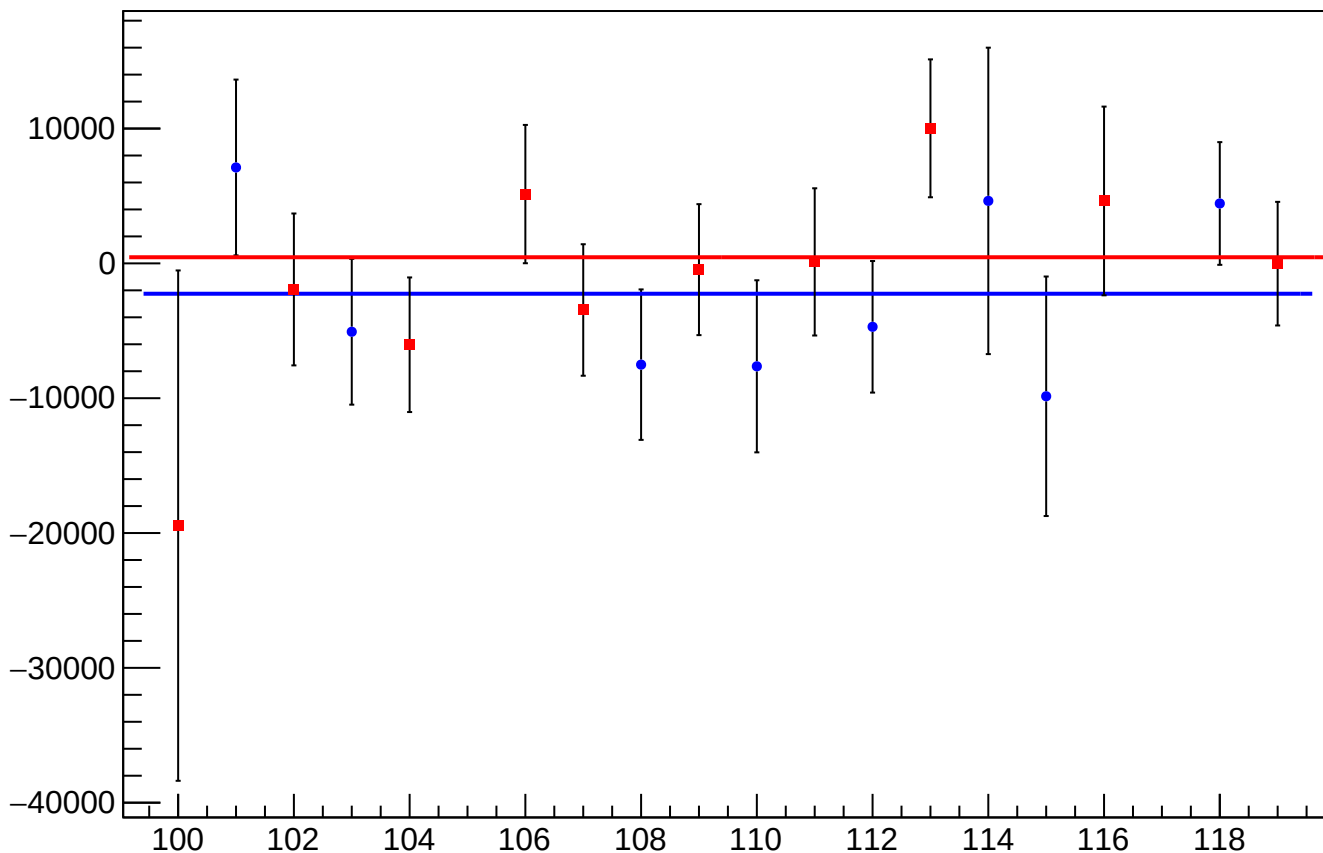
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3150.640 $\pm$ 0.835  $\chi^2$ /NDF: 604581.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -2251.884+/-2107.518  $\chi^2/\text{NDF}$ : 7.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 454.670+/-1723.460  $\chi^2/\text{NDF}$ : 8.4/9

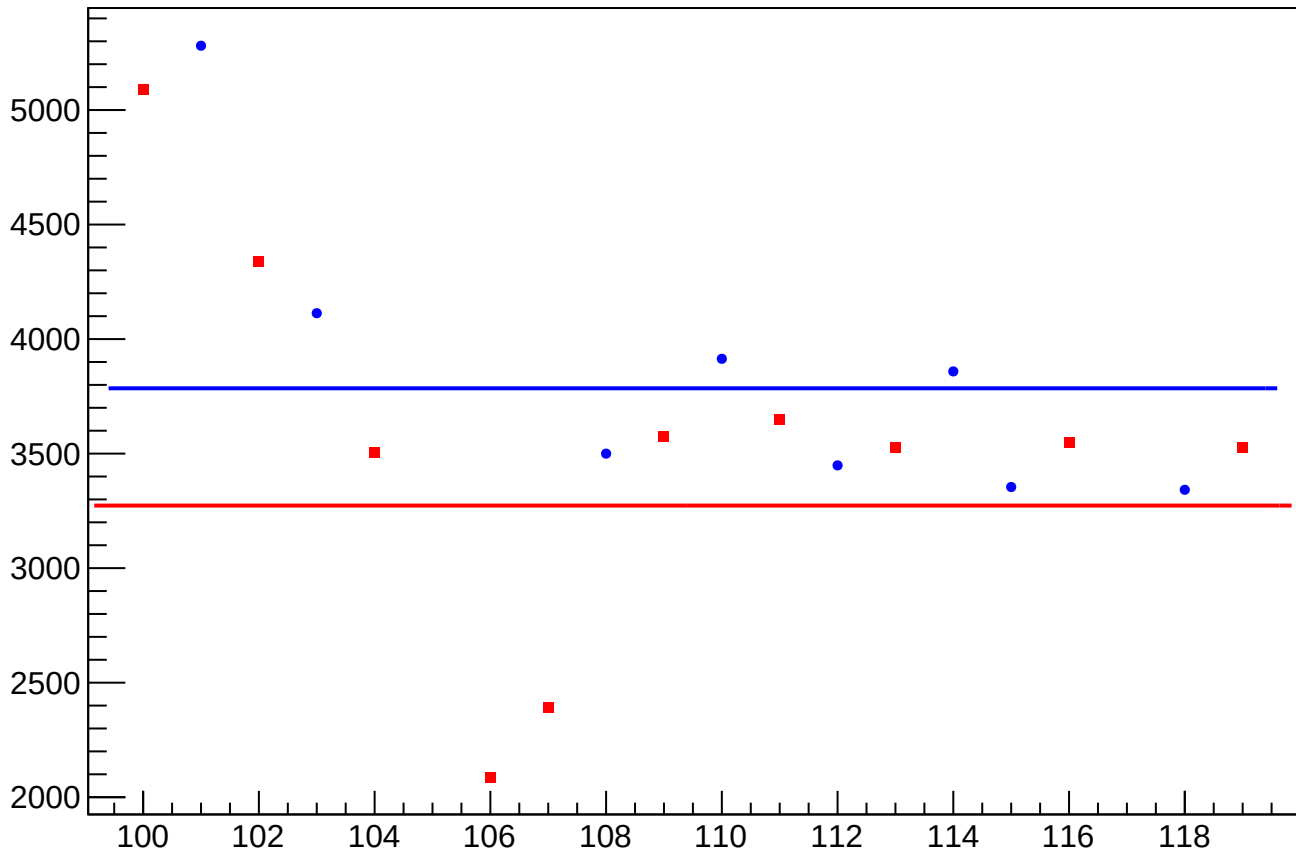
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -629.973+/-1334.155  $\chi^2/\text{NDF}$ : 16.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 3785.140+/-1.490  $\chi^2/\text{NDF}$ : 151963.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3273.153+/-1.191  $\chi^2/\text{NDF}$ : 341083.9/9

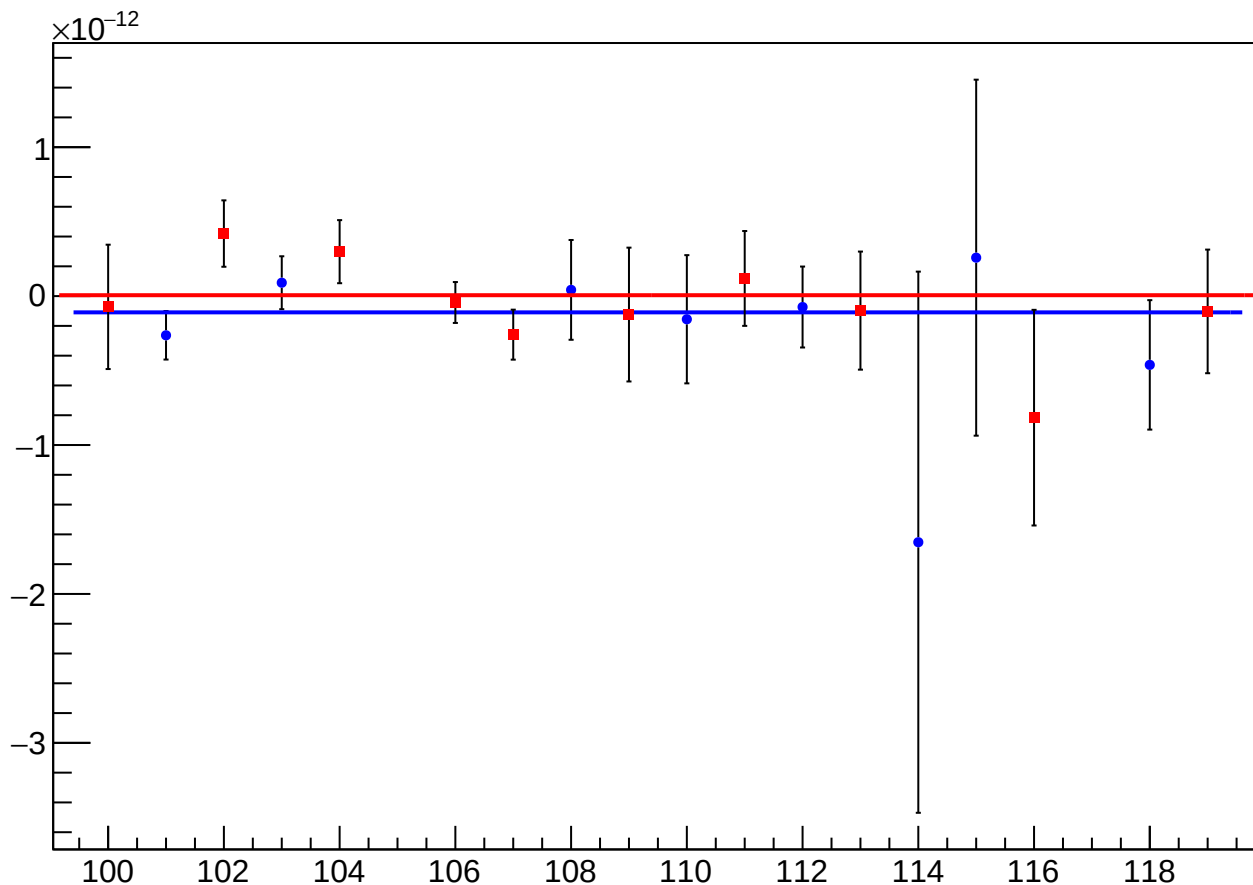
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3472.794+/-0.931  $\chi^2/\text{NDF}$ : 565058.4/17

- 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  $\chi^2/\text{NDF}$ : 3.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.6/9

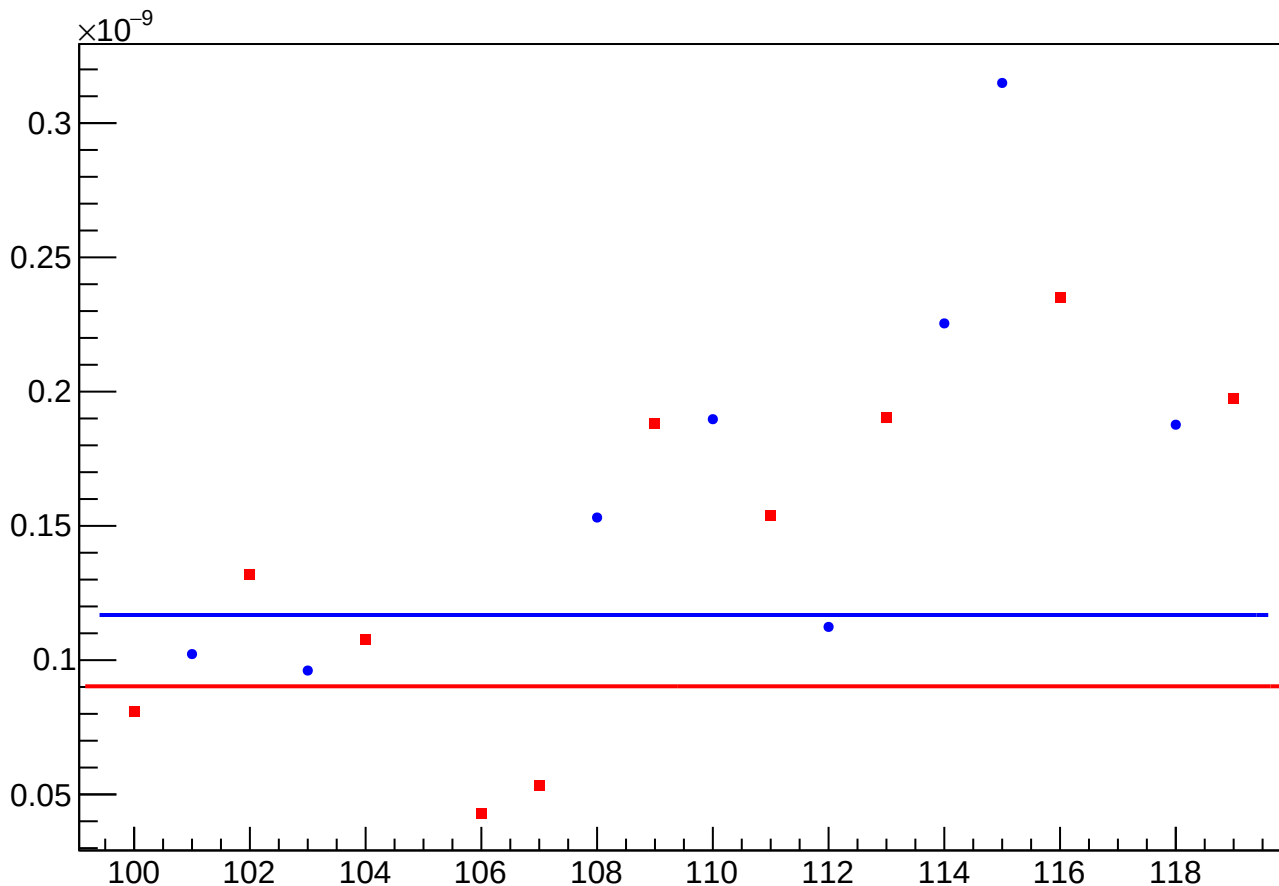
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.3/17

- 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  $\chi^2/\text{NDF}$ : 239719.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 934312.8/9

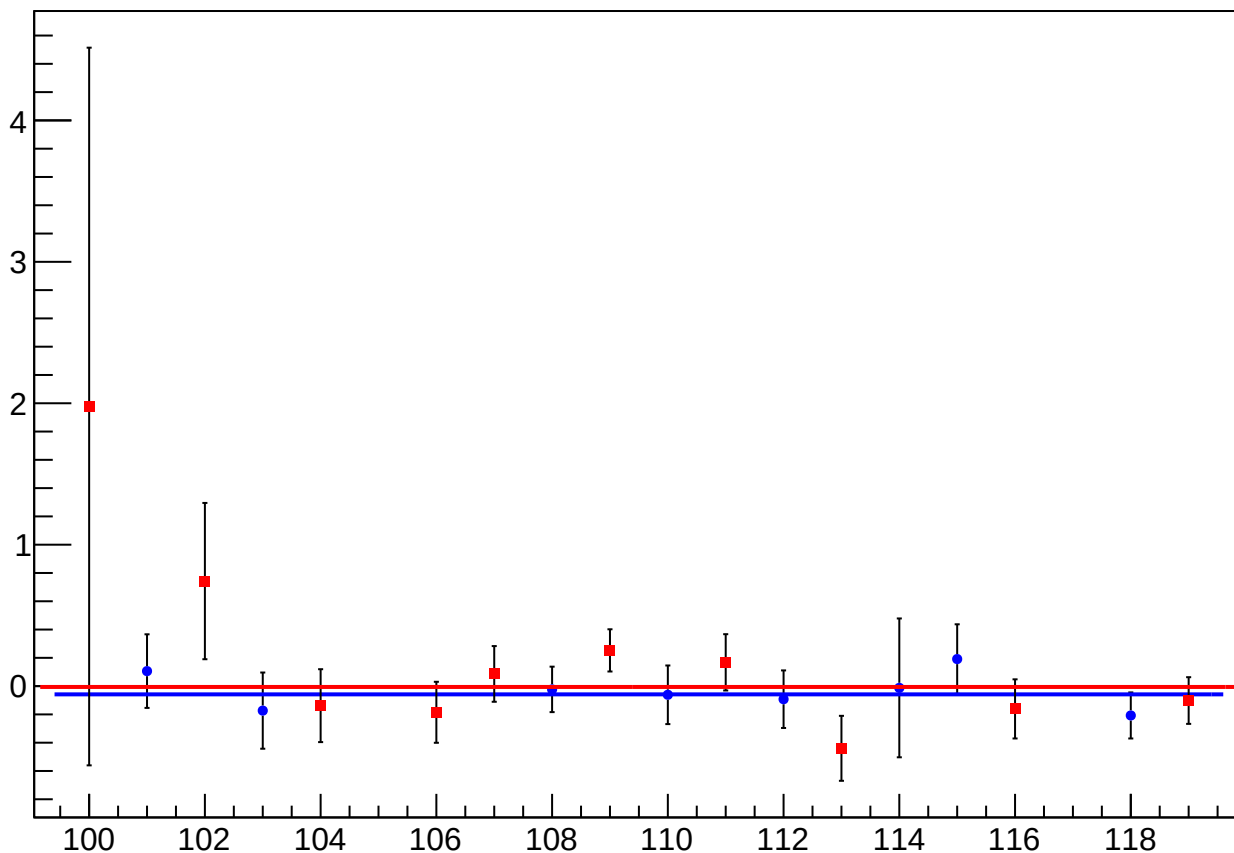
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1263860.8/17

- 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: -0.058 $\pm$ 0.076  $\chi^2$ /NDF: 2.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.006 $\pm$ 0.068  $\chi^2$ /NDF: 11.8/9

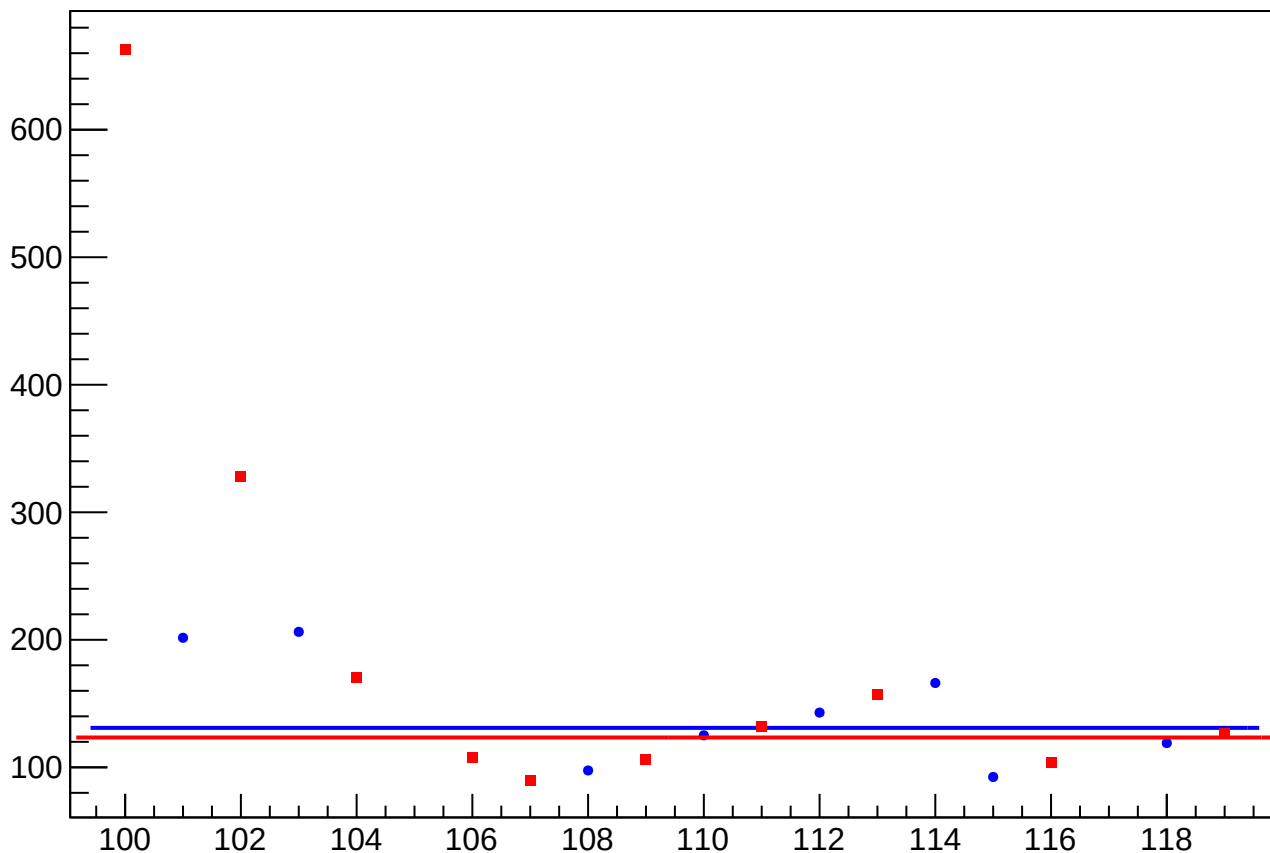
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.029 $\pm$ 0.051  $\chi^2$ /NDF: 14.6/17

- 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: 130.952+/-0.054  $\chi^2/\text{NDF}$ : 468617.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 123.400+/-0.048  $\chi^2/\text{NDF}$ : 592734.1/9

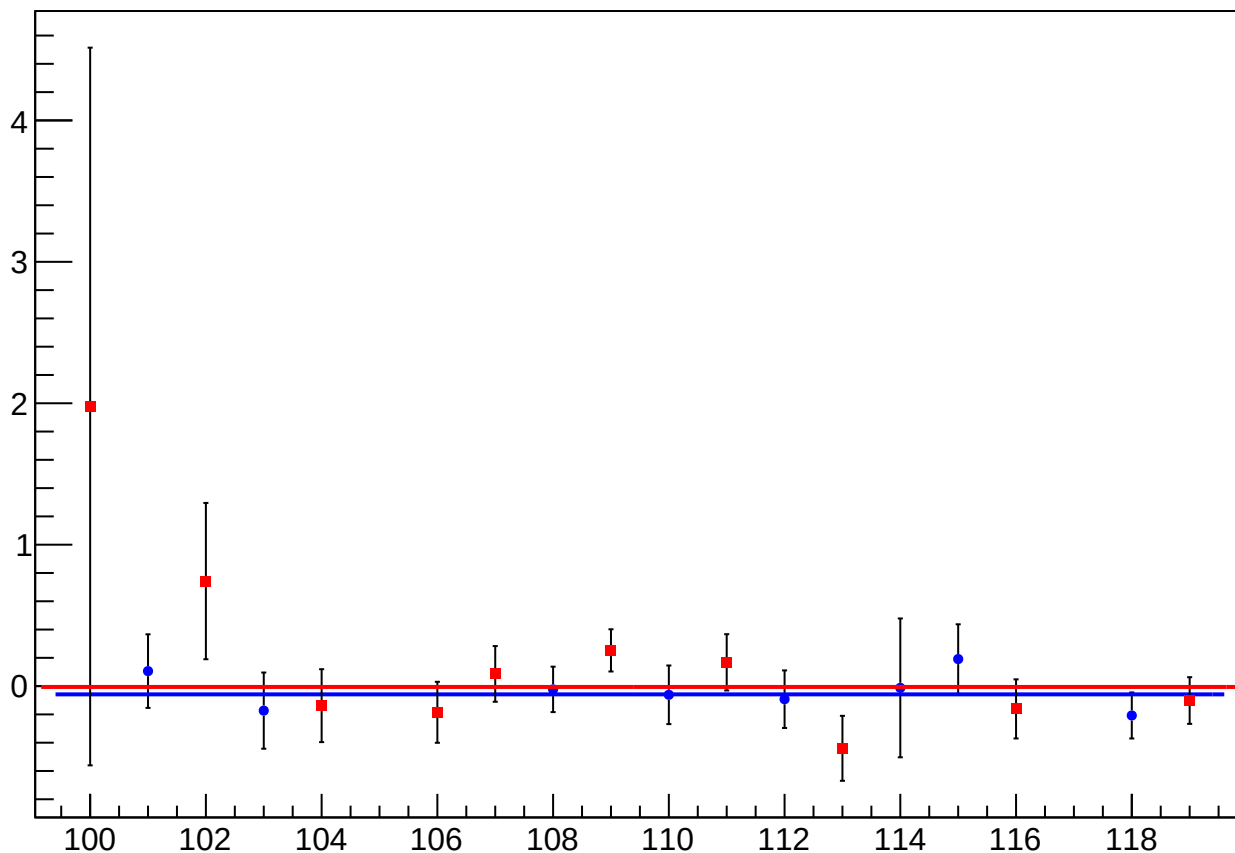
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 126.773+/-0.036  $\chi^2/\text{NDF}$ : 1072277.2/17

- 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: -0.058 $\pm$ 0.076  $\chi^2$ /NDF: 2.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.006 $\pm$ 0.068  $\chi^2$ /NDF: 11.8/9

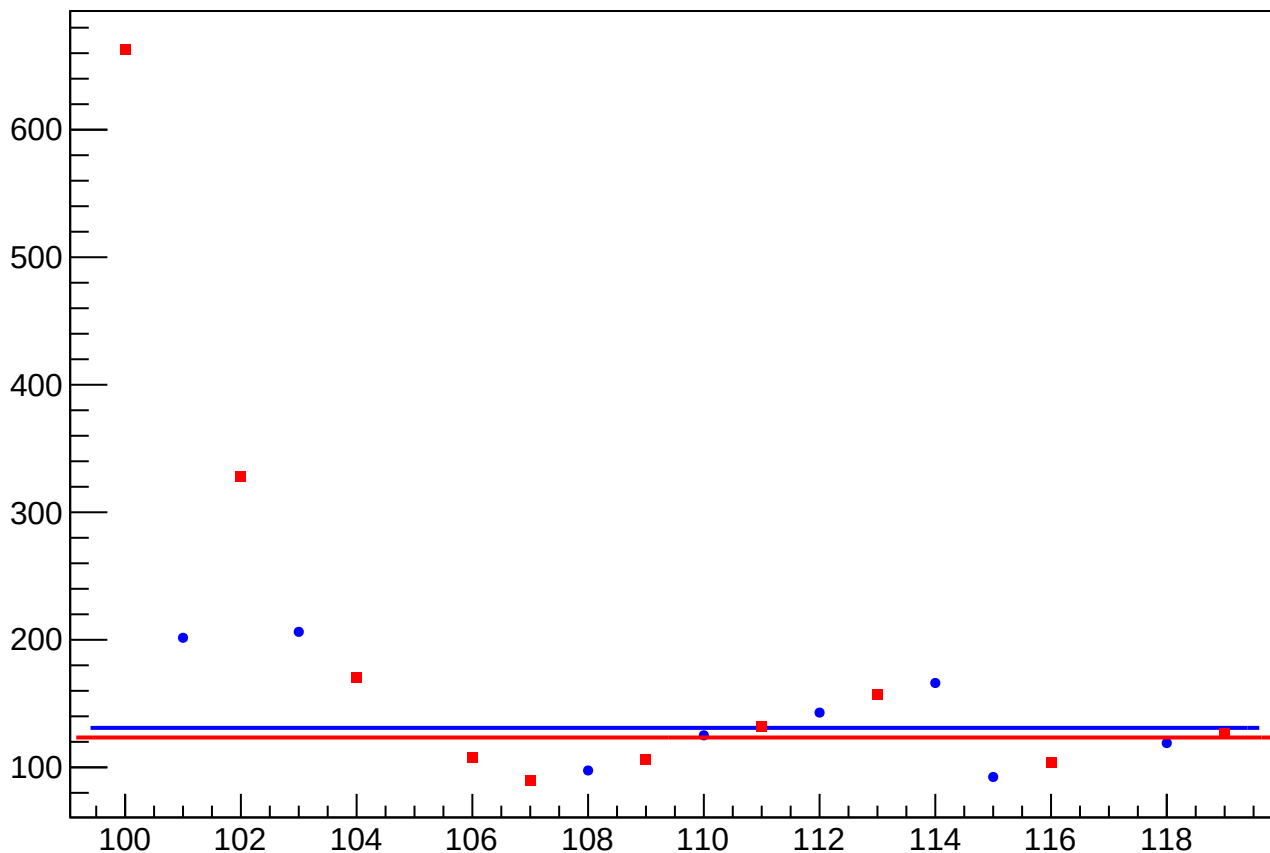
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.029 $\pm$ 0.051  $\chi^2$ /NDF: 14.6/17

- 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: 130.952+/-0.054  $\chi^2/\text{NDF}$ : 468617.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 123.400+/-0.048  $\chi^2/\text{NDF}$ : 592734.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

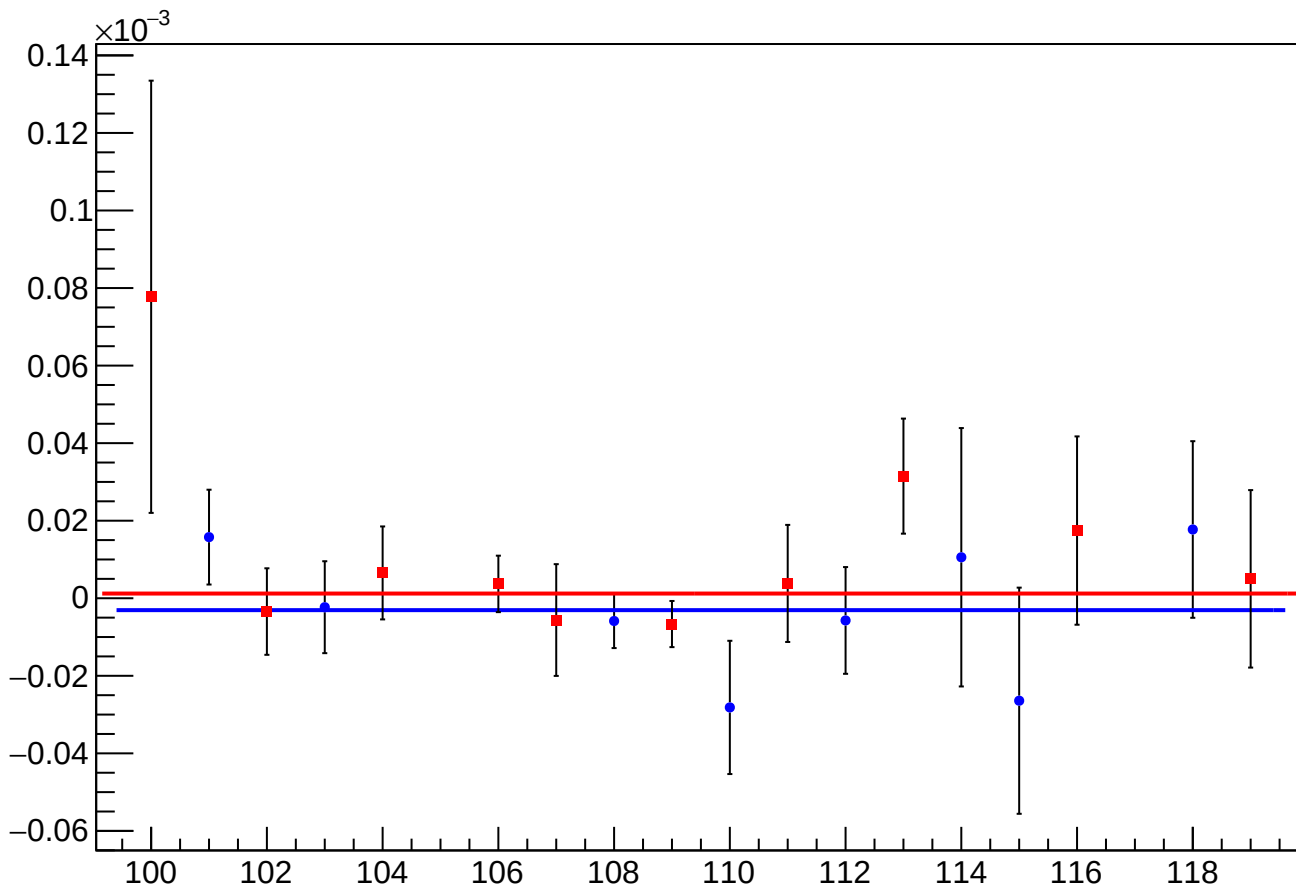
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 126.773+/-0.036  $\chi^2/\text{NDF}$ : 1072277.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 6.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.0/9

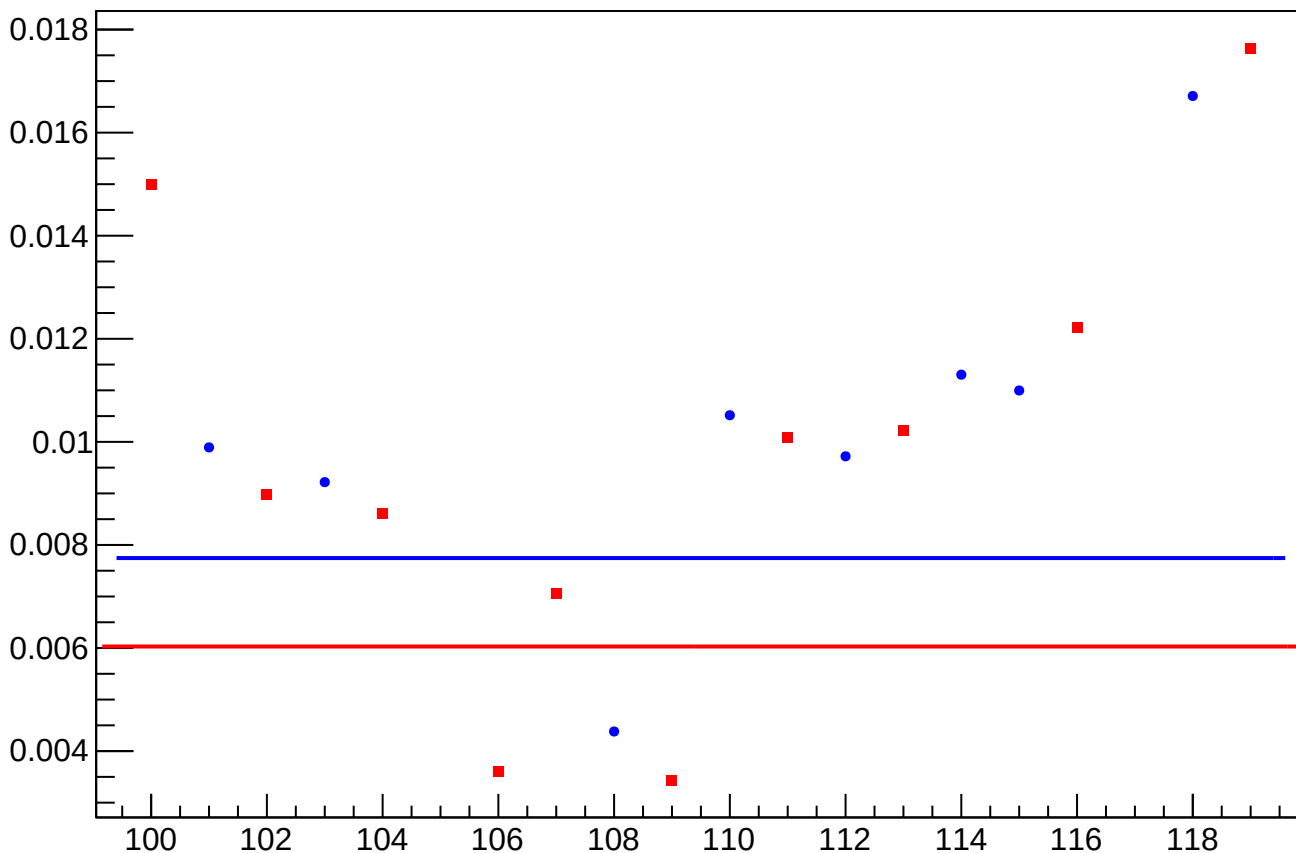
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.9/17

- 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: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 1007561.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1845685.6/9

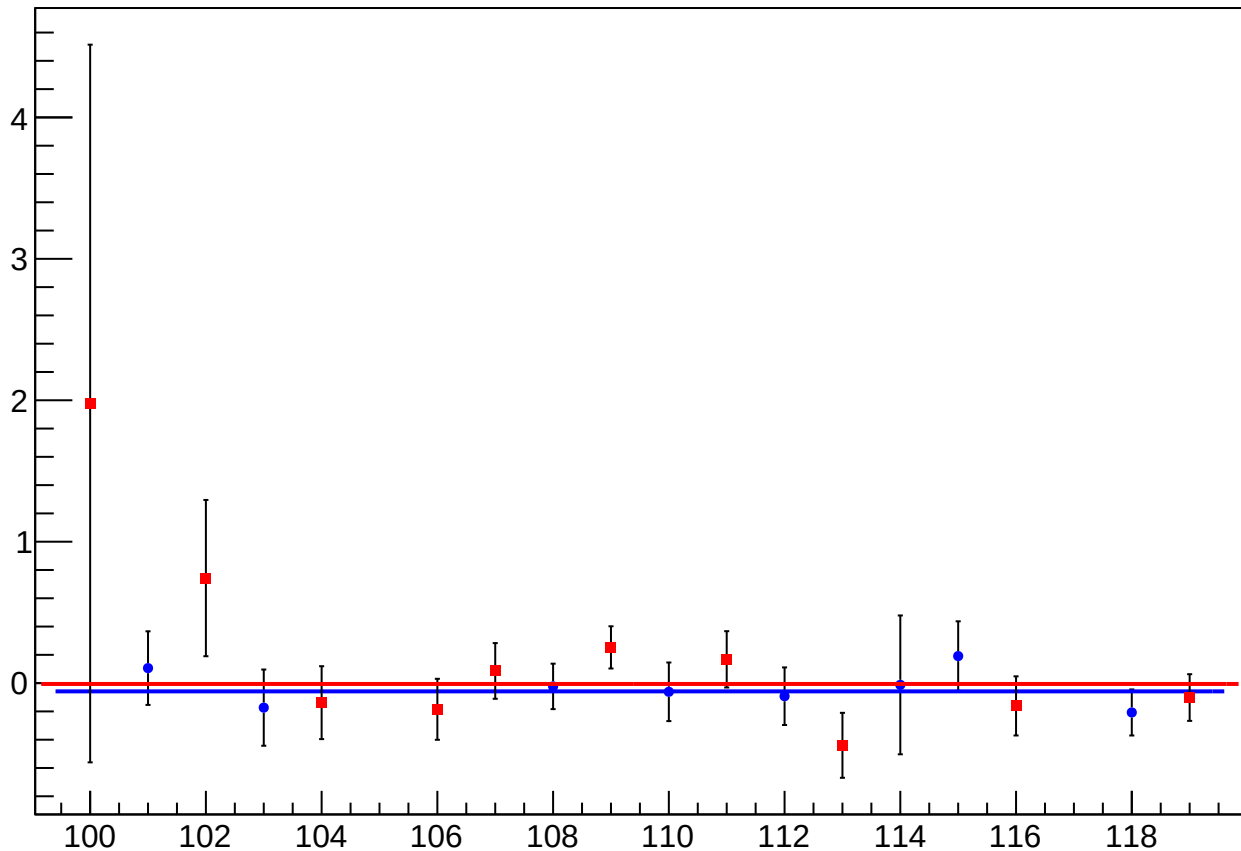
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 3027414.5/17

- 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: -0.058 $\pm$ 0.076  $\chi^2$ /NDF: 2.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.006 $\pm$ 0.068  $\chi^2$ /NDF: 11.8/9

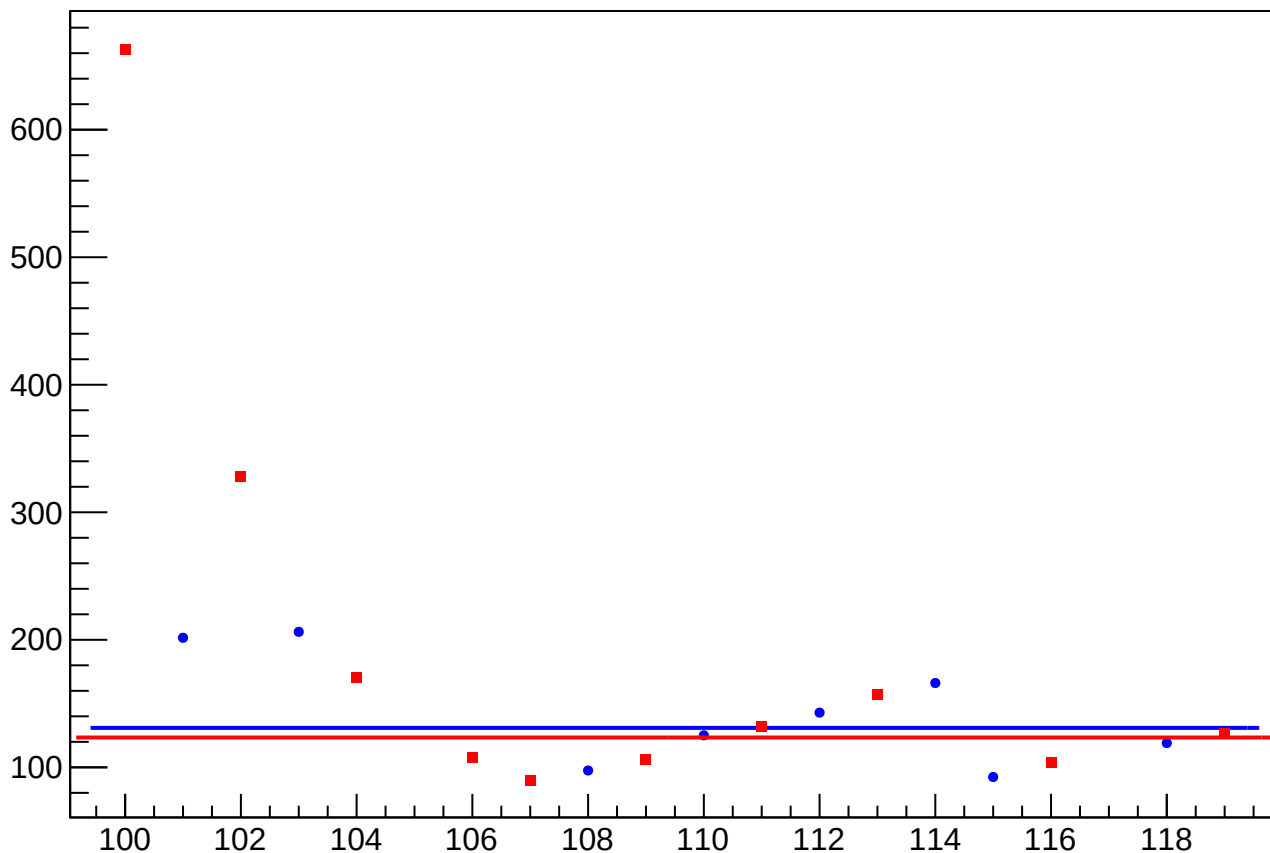
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.029 $\pm$ 0.051  $\chi^2$ /NDF: 14.6/17

- 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: 130.952 $\pm$ 0.054  $\chi^2$ /NDF: 468584.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 123.403 $\pm$ 0.048  $\chi^2$ /NDF: 592687.2/9

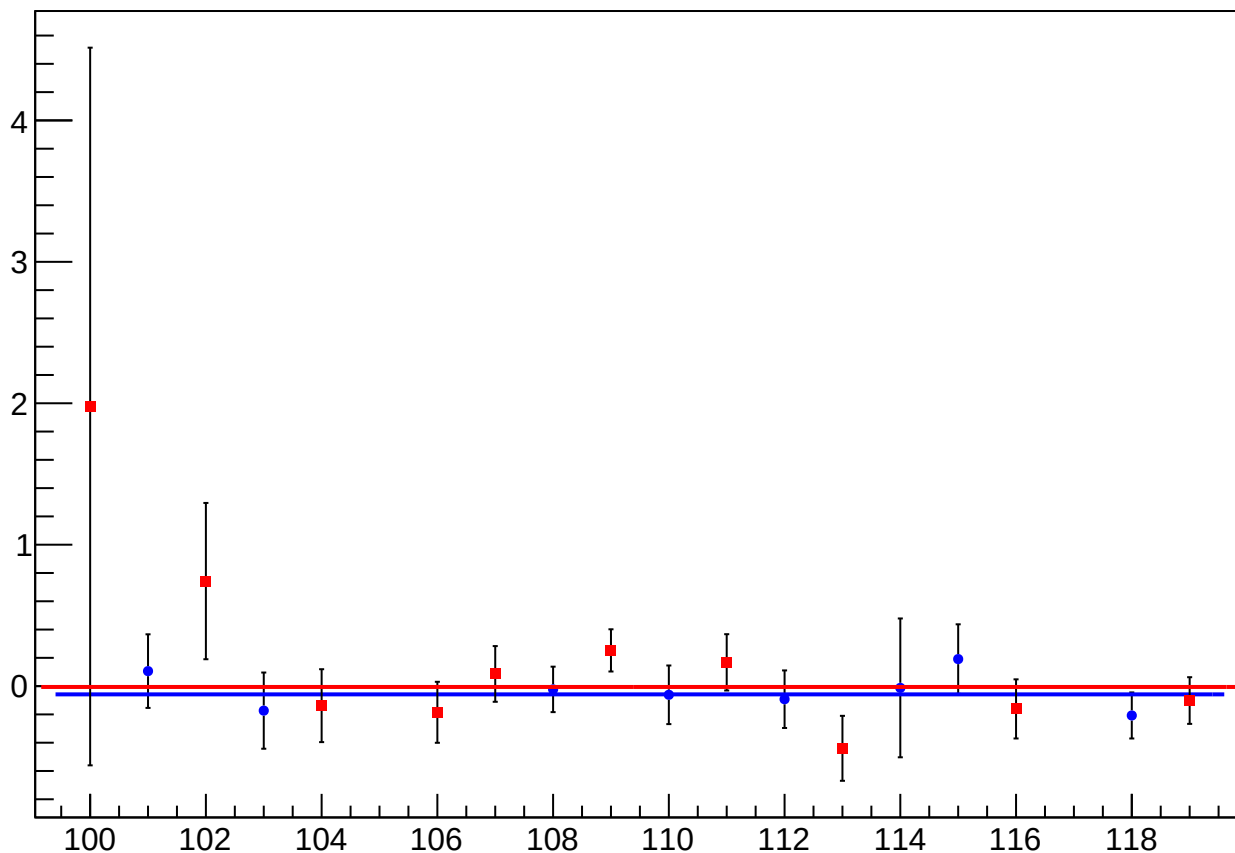
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 126.775 $\pm$ 0.036  $\chi^2$ /NDF: 1072192.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.058 $\pm$ 0.076  $\chi^2$ /NDF: 2.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.006 $\pm$ 0.068  $\chi^2$ /NDF: 11.8/9

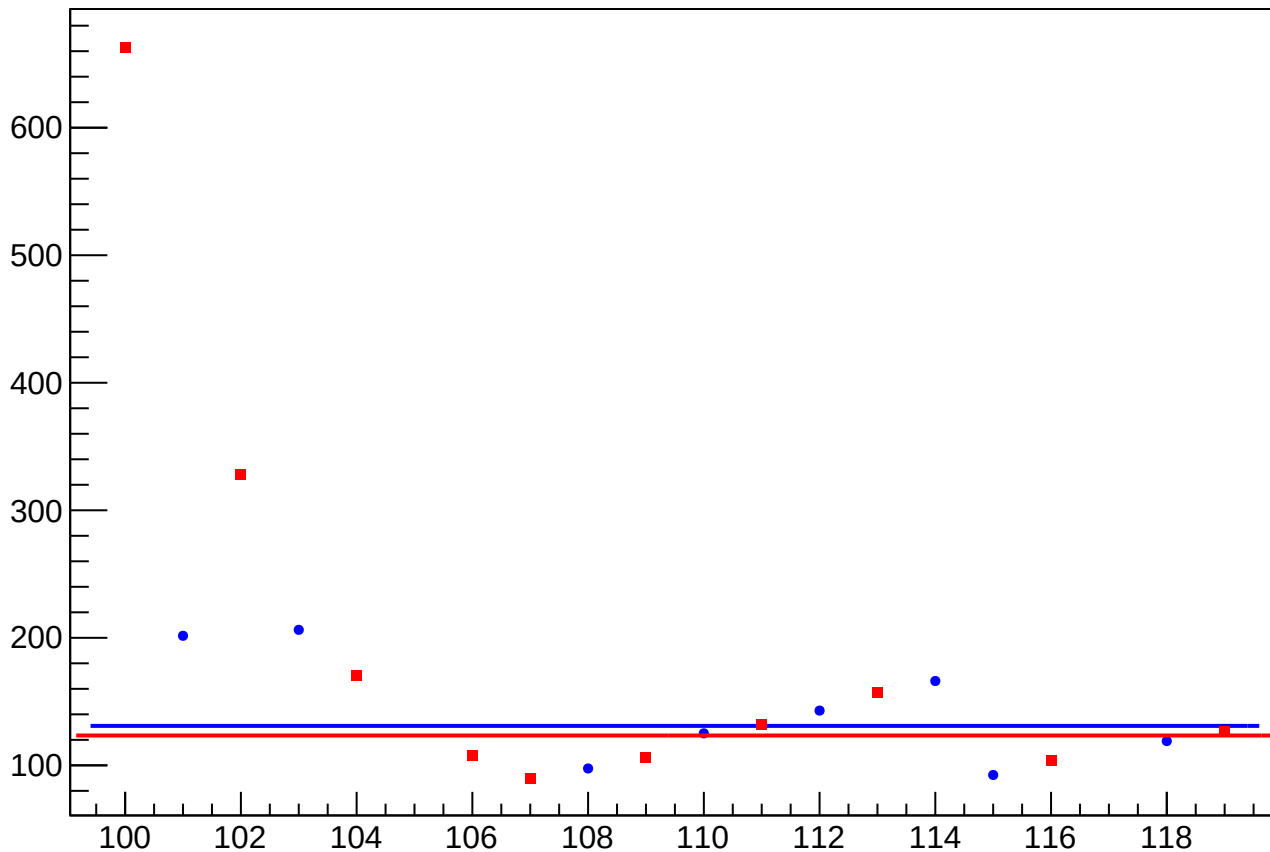
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.029 $\pm$ 0.051  $\chi^2$ /NDF: 14.6/17

- 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: 130.952+/-0.054  $\chi^2/\text{NDF}$ : 468584.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 123.403+/-0.048  $\chi^2/\text{NDF}$ : 592687.2/9

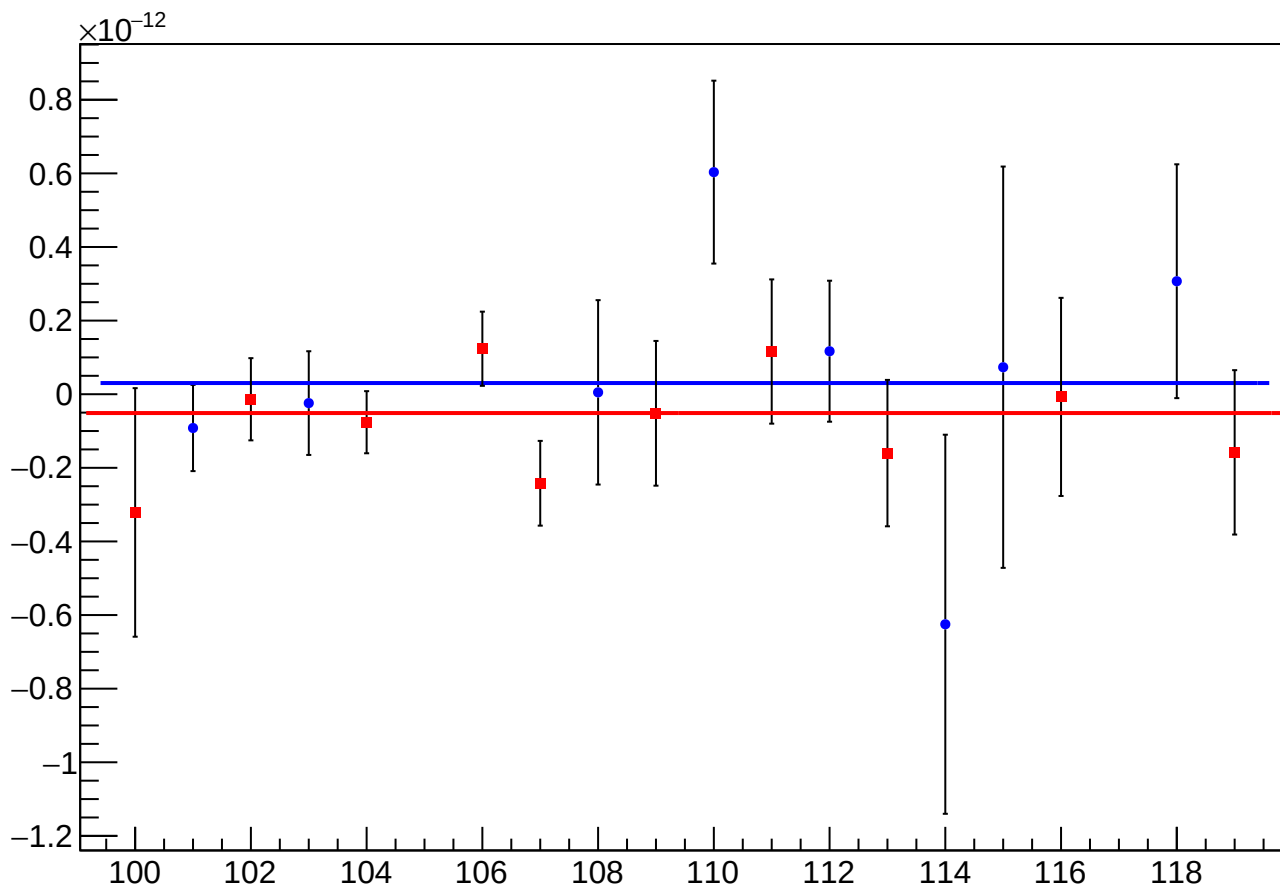
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 126.775+/-0.036  $\chi^2/\text{NDF}$ : 1072192.7/17

- 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  $\chi^2/\text{NDF}$ : 9.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.9/9

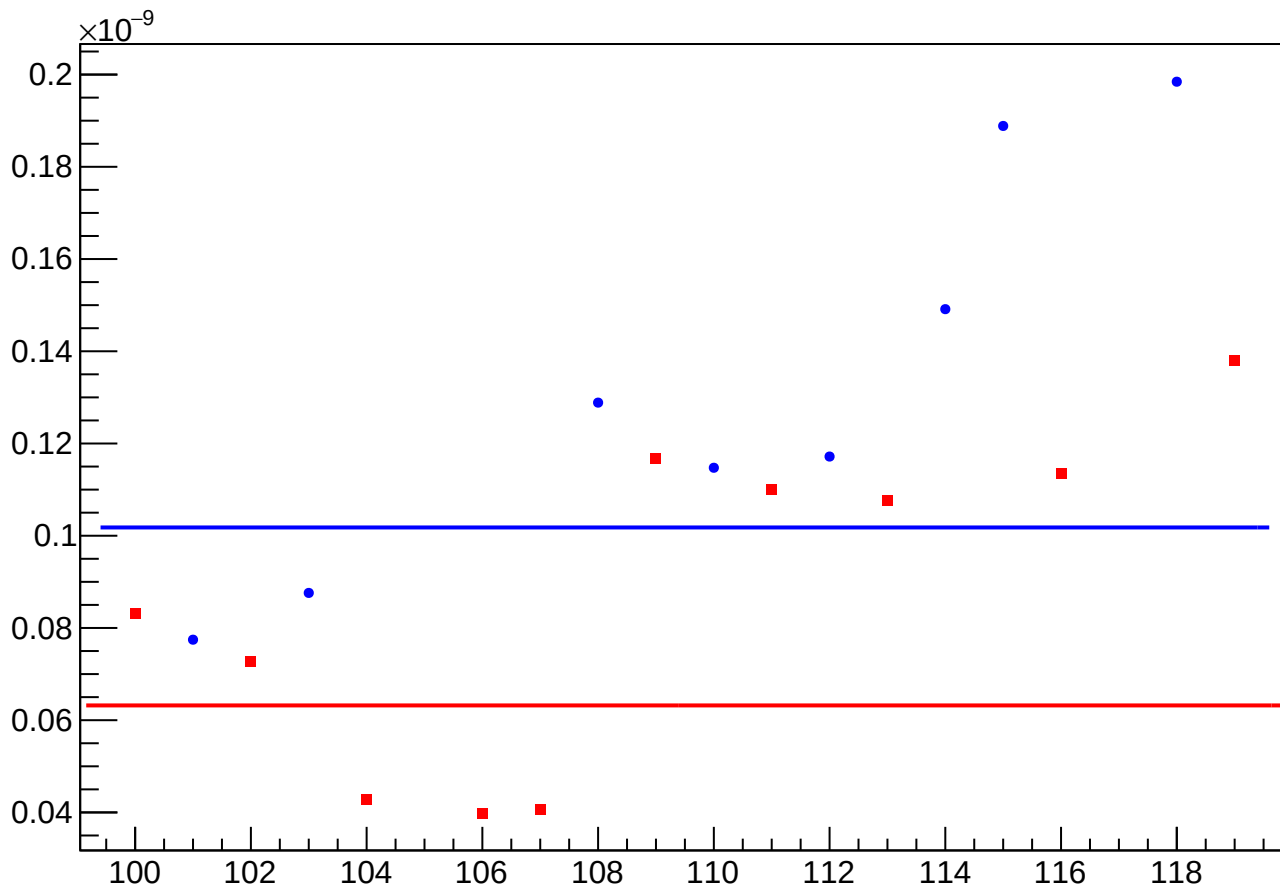
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.0/17

- 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  $\chi^2/\text{NDF}$ : 401403.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 979192.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

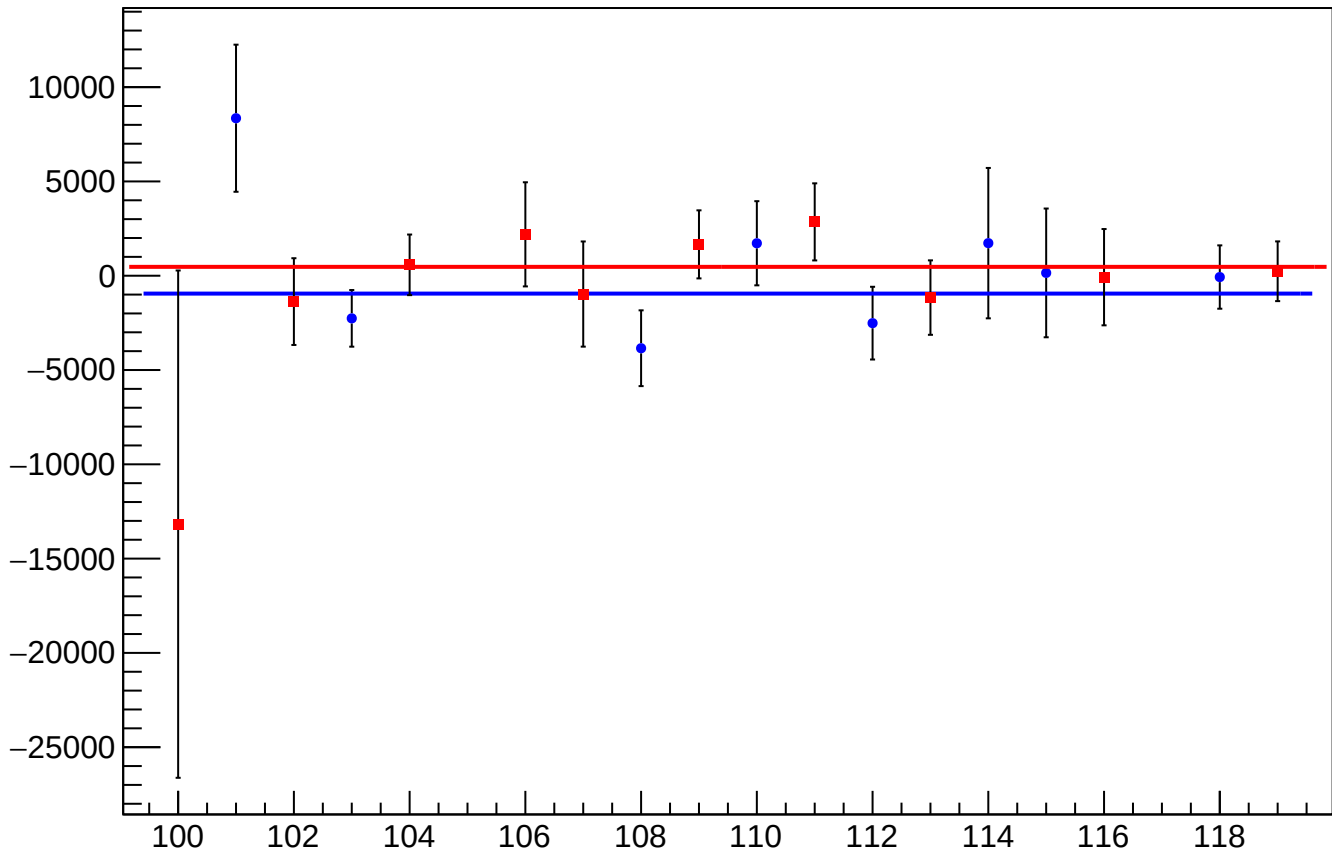
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1809096.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -947.654+/-760.329  $\chi^2$ /NDF: 11.4/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 470.574+/-674.645  $\chi^2$ /NDF: 4.9/9

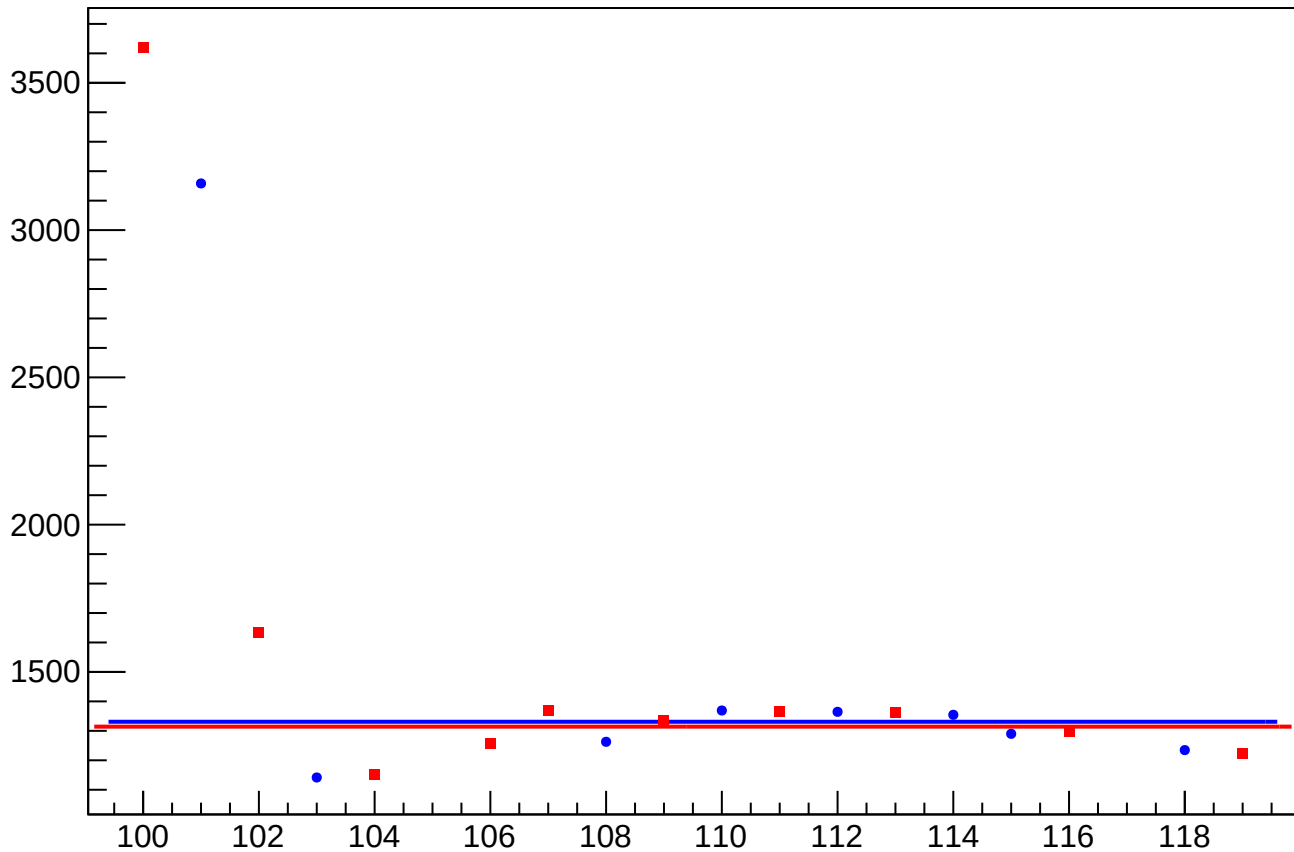
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -154.157+/-504.632  $\chi^2$ /NDF: 18.3/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 1330.854+/-0.538  $\chi^2/\text{NDF}$ : 481305.4/7

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

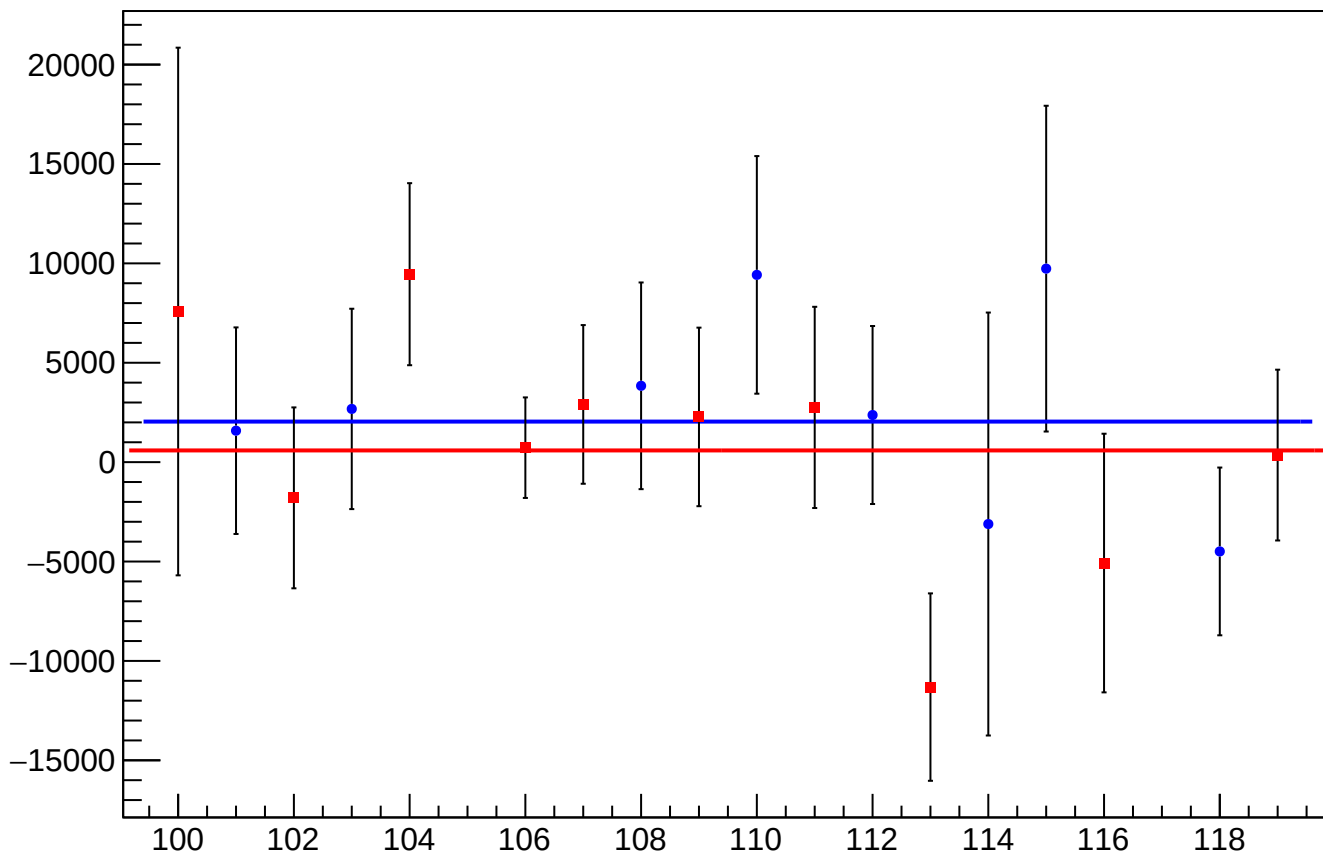
Right Out: 1314.269+/-0.475  $\chi^2/\text{NDF}$ : 129408.9/9

All: 1321.534+/-0.356  $\chi^2/\text{NDF}$ : 611249.0/17

- 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\_dd\_reg\_correction\_mean vs Slug



Right In: 2040.334 $\pm$ 1920.326  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 589.123 $\pm$ 1370.763  $\chi^2$ /NDF: 12.1/9

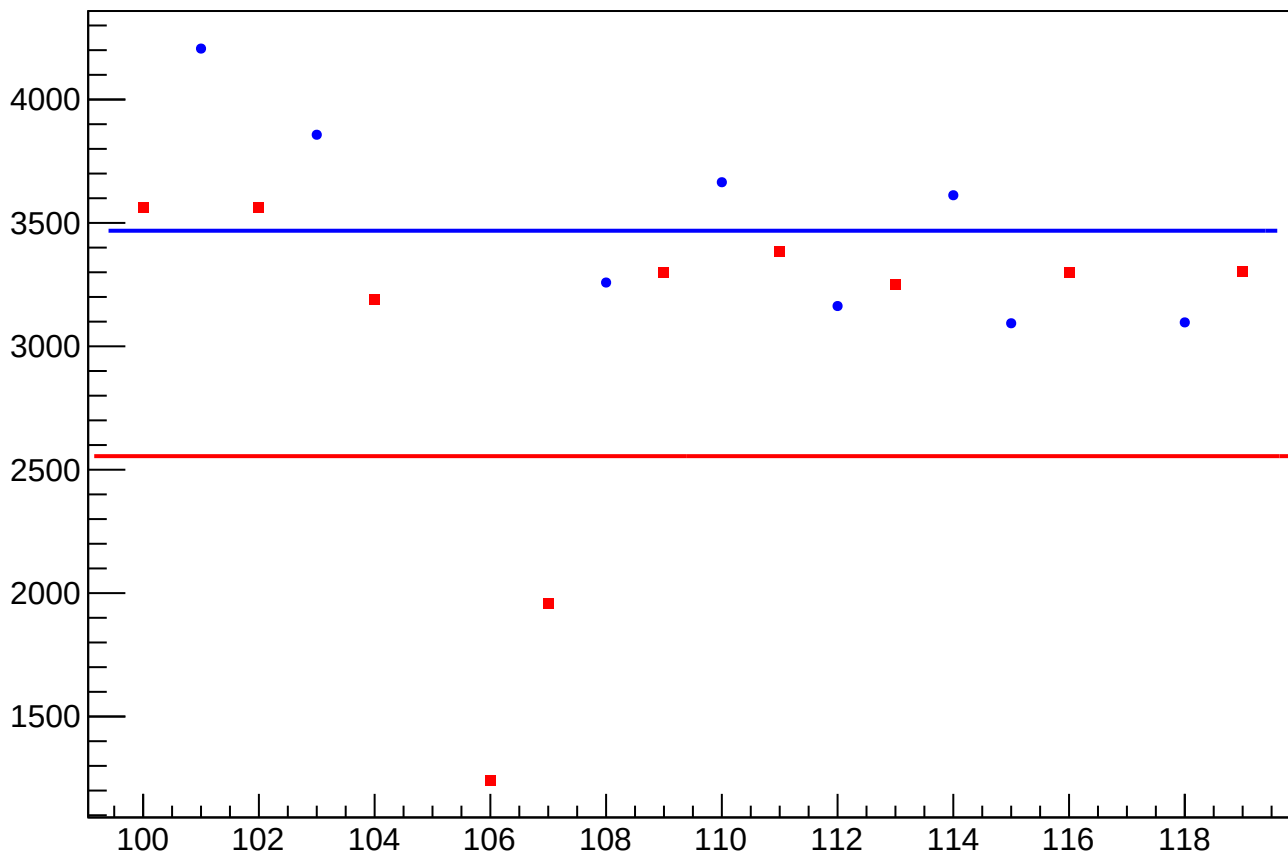
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1078.971 $\pm$ 1115.682  $\chi^2$ /NDF: 17.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_reg\_correction\_rms vs Slug



Right In: 3468.347 $\pm$ 1.358  $\chi^2$ /NDF: 87021.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2554.988 $\pm$ 0.969  $\chi^2$ /NDF: 970662.4/9

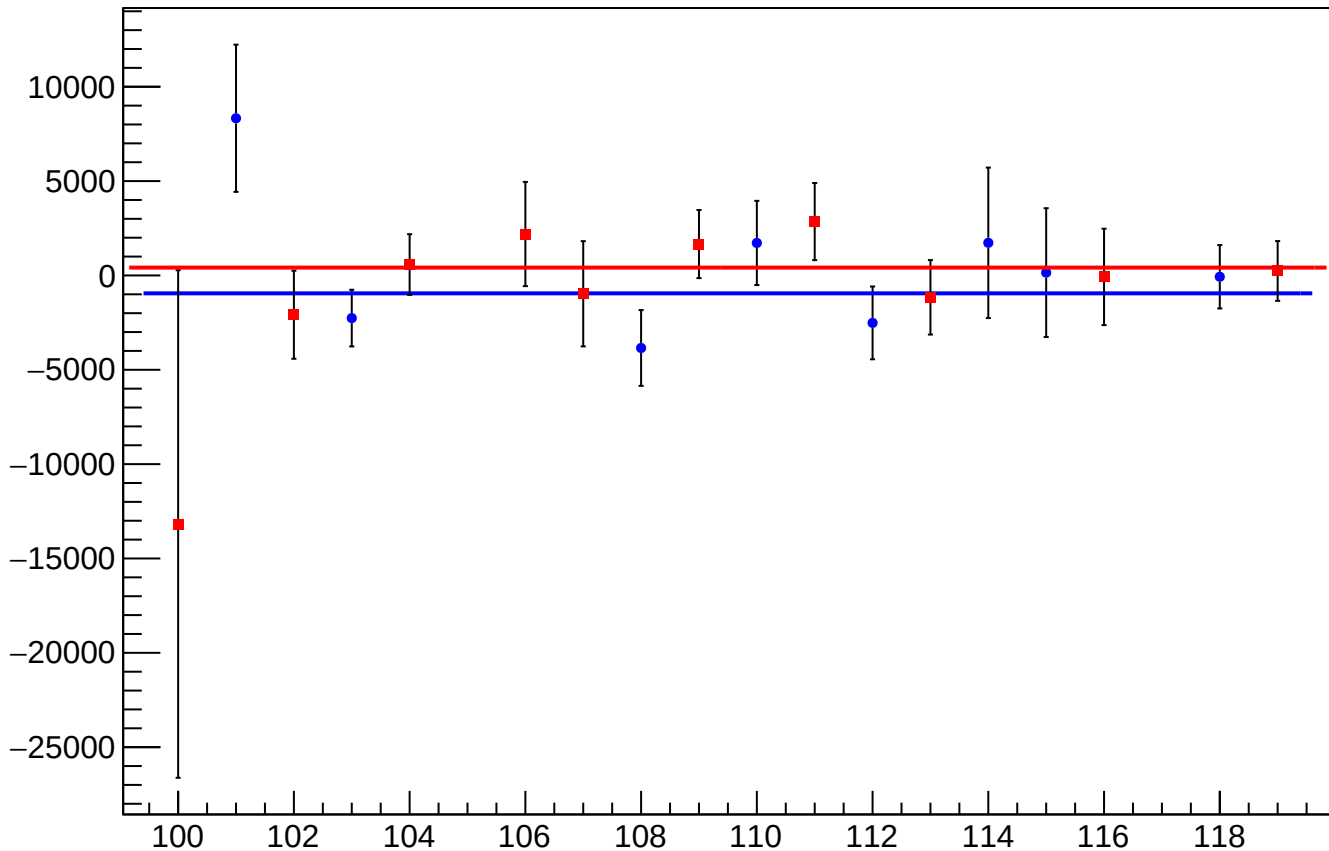
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2863.288 $\pm$ 0.789  $\chi^2$ /NDF: 1357406.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -948.478 $\pm$ 760.329  $\chi^2/\text{NDF}$ : 11.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 415.983 $\pm$ 675.503  $\chi^2/\text{NDF}$ : 5.4/9

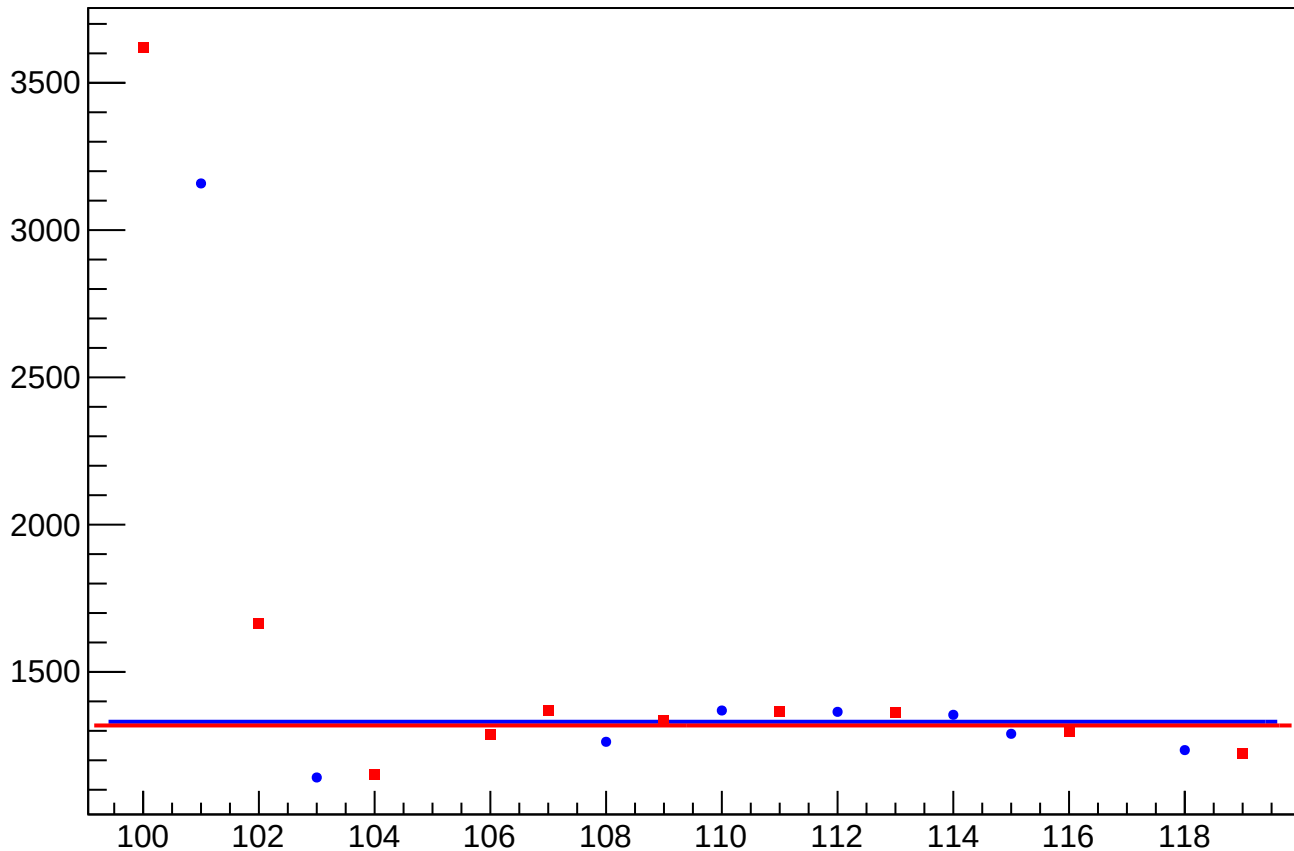
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -185.918 $\pm$ 504.991  $\chi^2/\text{NDF}$ : 18.6/17

- 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: 1330.854+/-0.538  $\chi^2/\text{NDF}$ : 481307.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1318.227+/-0.476  $\chi^2/\text{NDF}$ : 135367.2/9

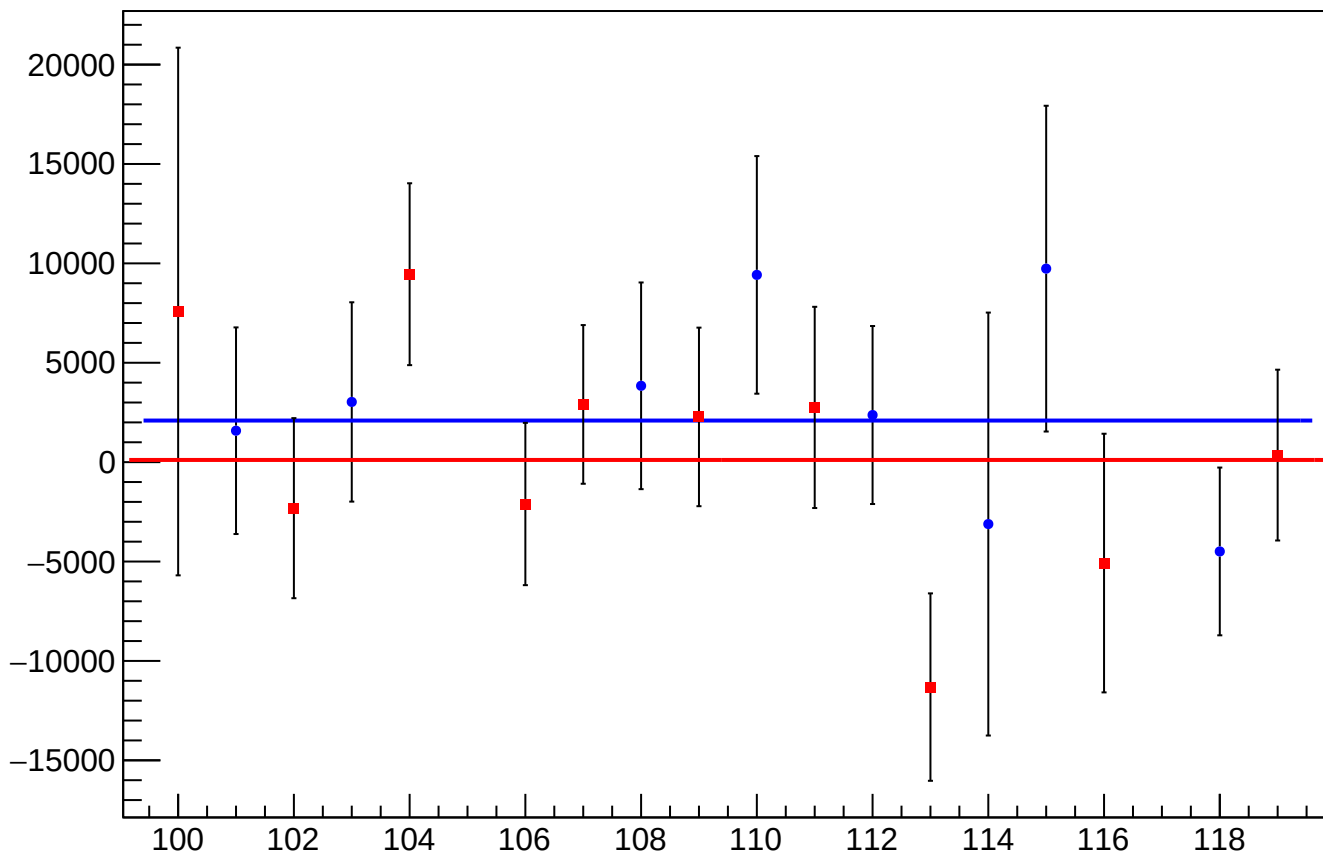
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1323.775+/-0.356  $\chi^2/\text{NDF}$ : 616983.4/17

- 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: 2092.588 $\pm$ 1918.942  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 110.453 $\pm$ 1513.776  $\chi^2$ /NDF: 12.6/9

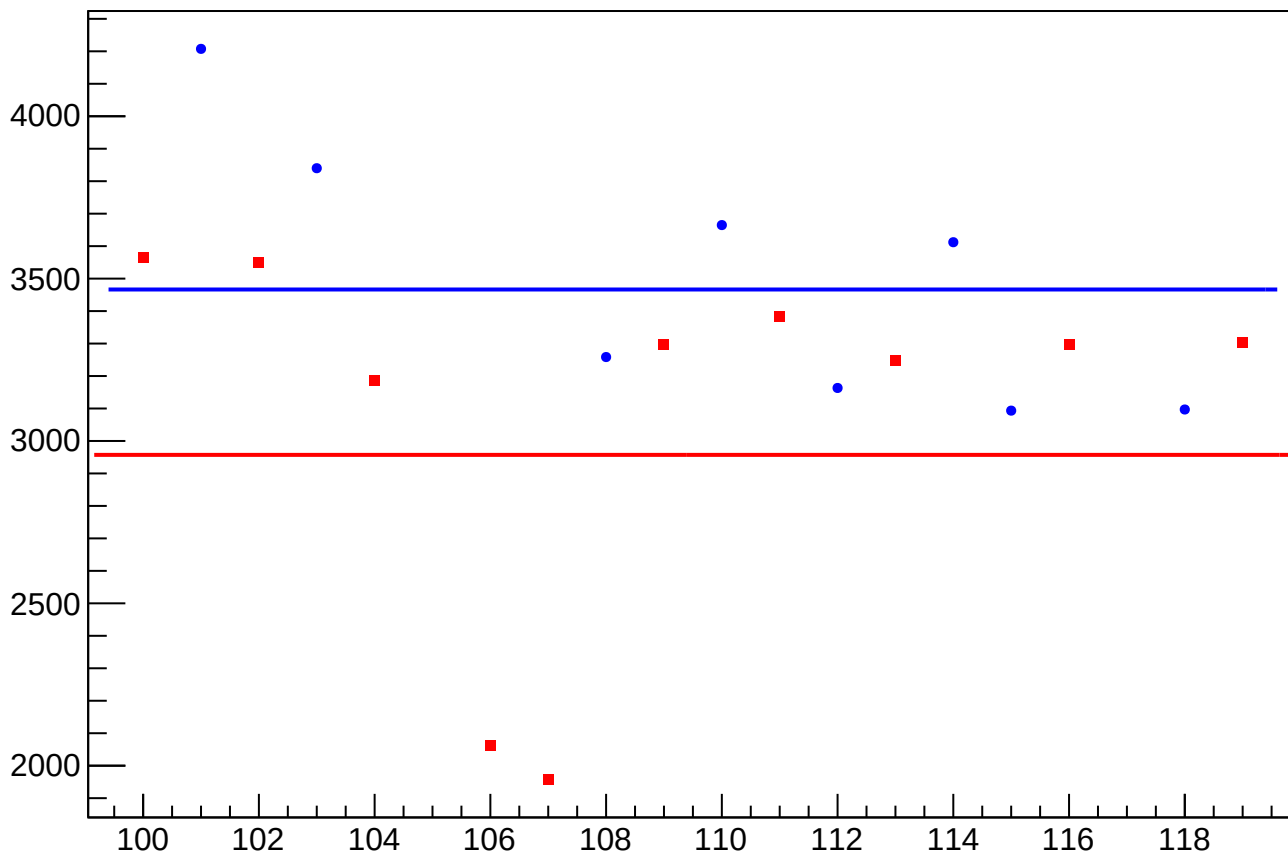
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 870.782 $\pm$ 1188.491  $\chi^2$ /NDF: 18.4/17

- 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: 3466.488+/-1.357  $\chi^2/\text{NDF}$ : 86197.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2957.186+/-1.070  $\chi^2/\text{NDF}$ : 317255.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

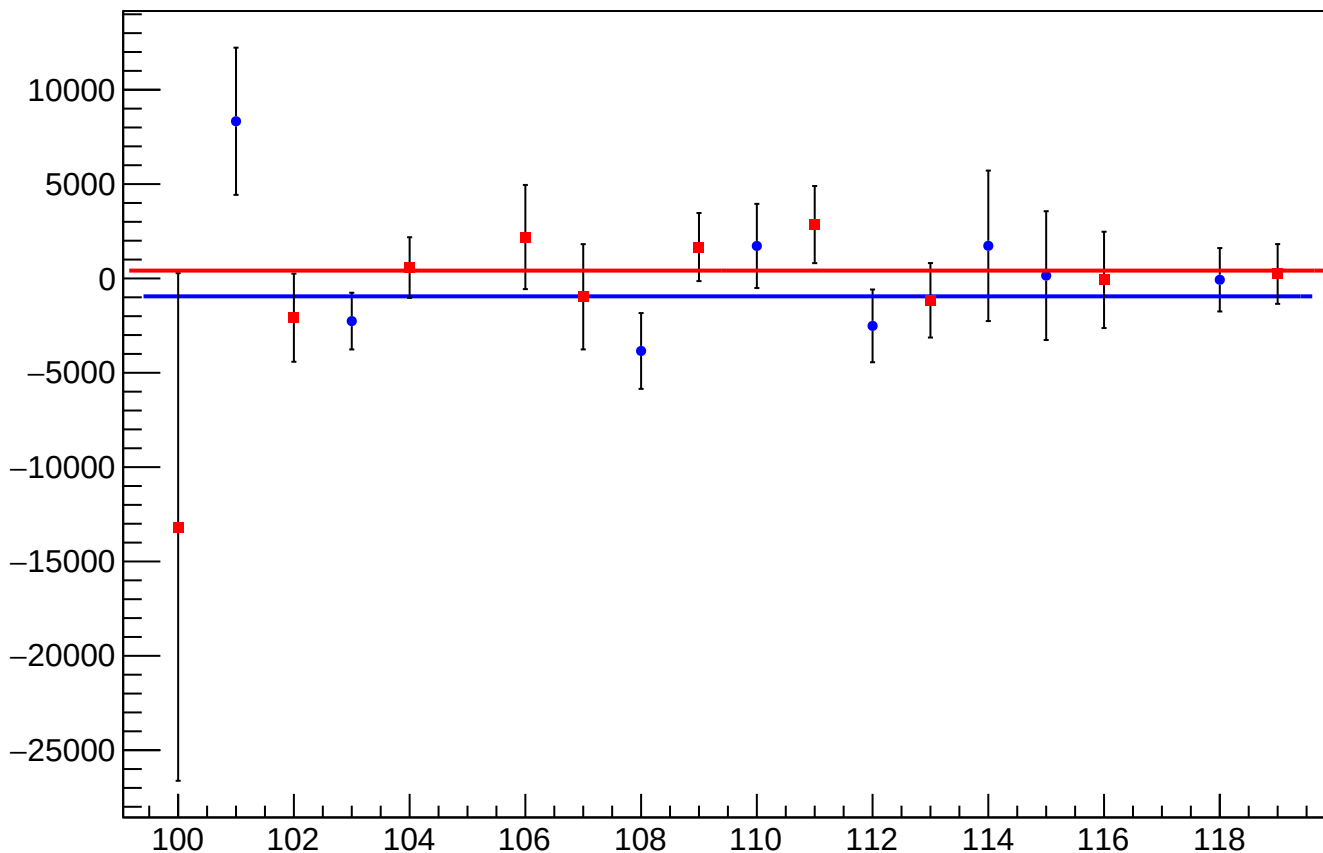
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3152.549+/-0.840  $\chi^2/\text{NDF}$ : 490293.5/17

- 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: -948.478+/-760.329  $\chi^2$ /NDF: 11.4/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 415.983+/-675.503  $\chi^2$ /NDF: 5.4/9

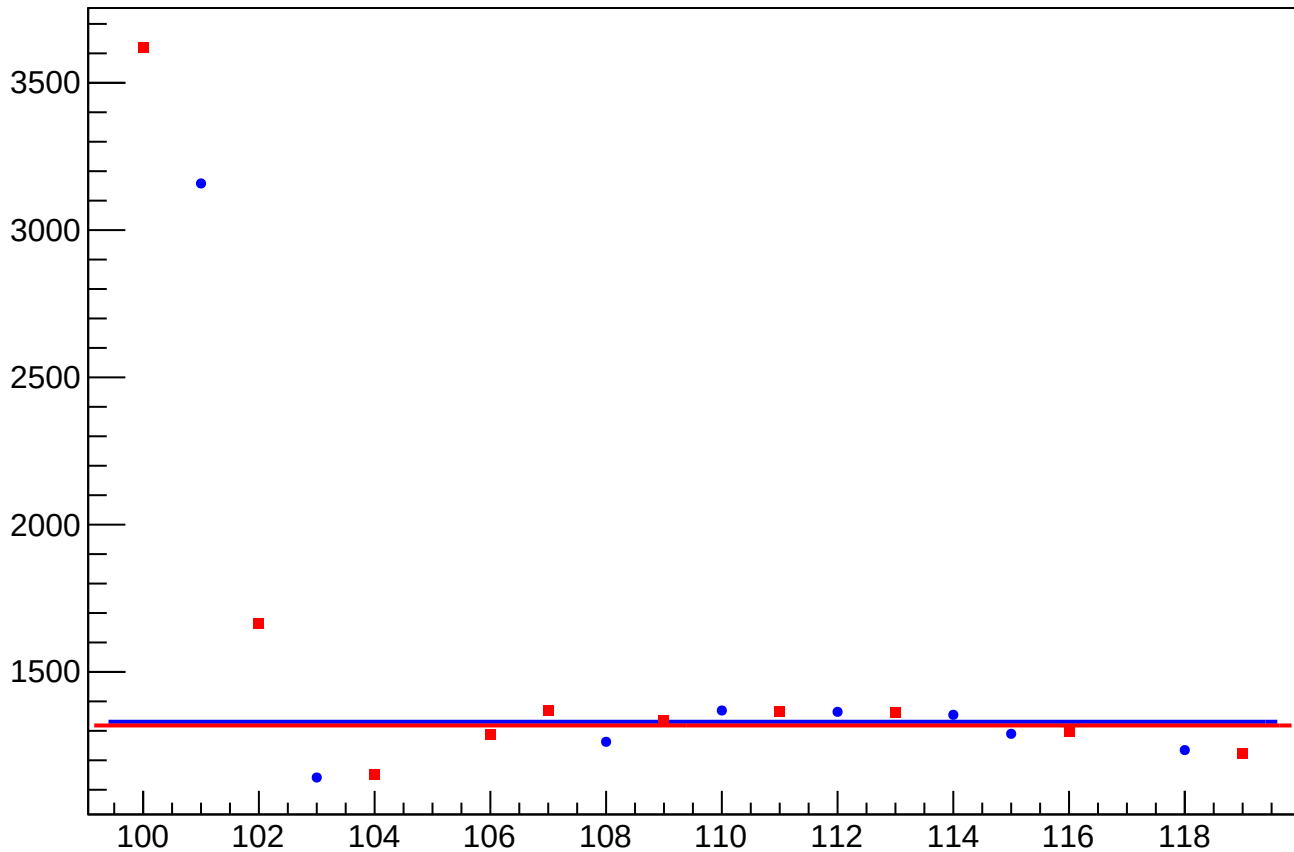
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -185.918+/-504.991  $\chi^2$ /NDF: 18.6/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 1330.854 $\pm$ 0.538  $\chi^2$ /NDF: 481307.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1318.227 $\pm$ 0.476  $\chi^2$ /NDF: 135367.2/9

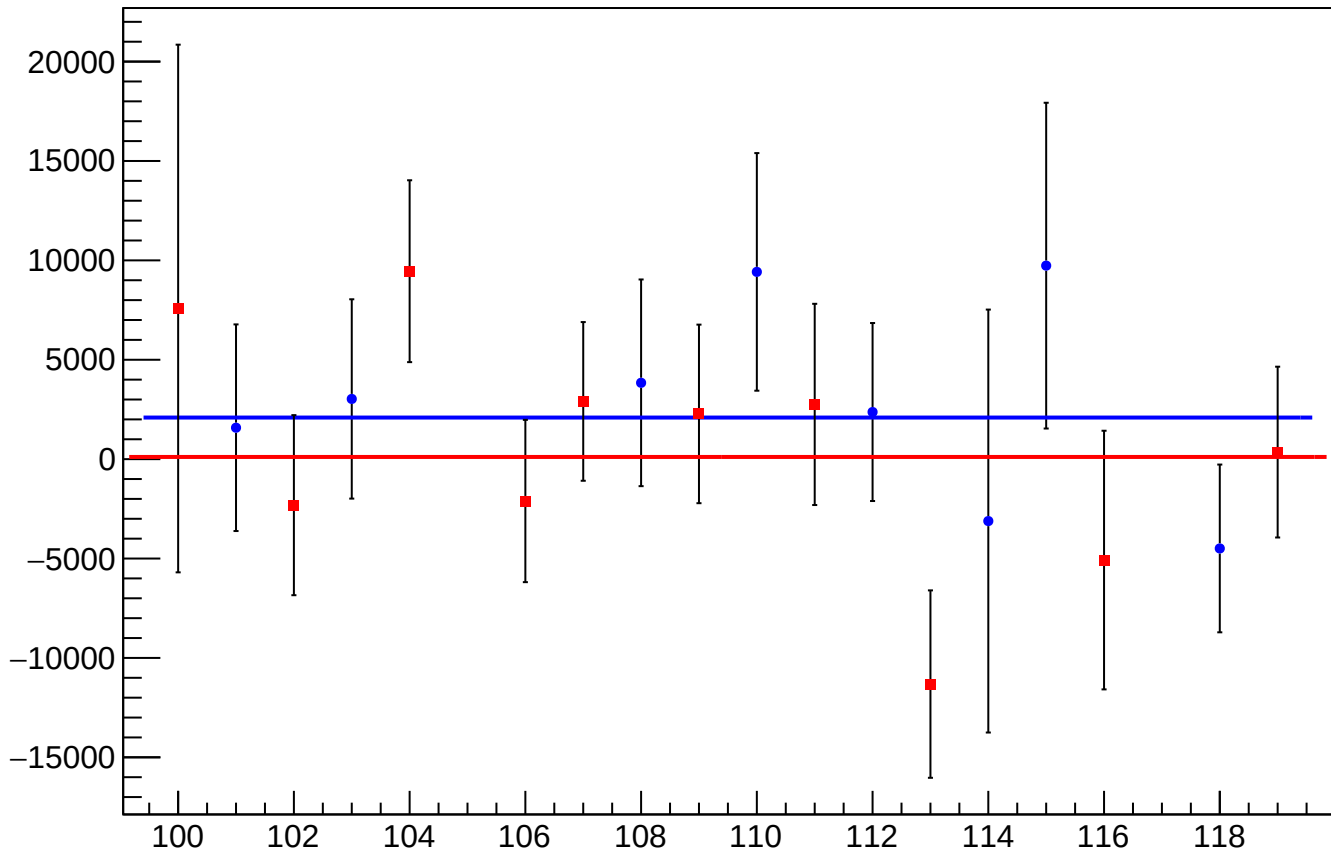
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1323.775 $\pm$ 0.356  $\chi^2$ /NDF: 616983.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 2092.588+/-1918.942  $\chi^2/\text{NDF}$ : 5.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.453+/-1513.776  $\chi^2/\text{NDF}$ : 12.6/9

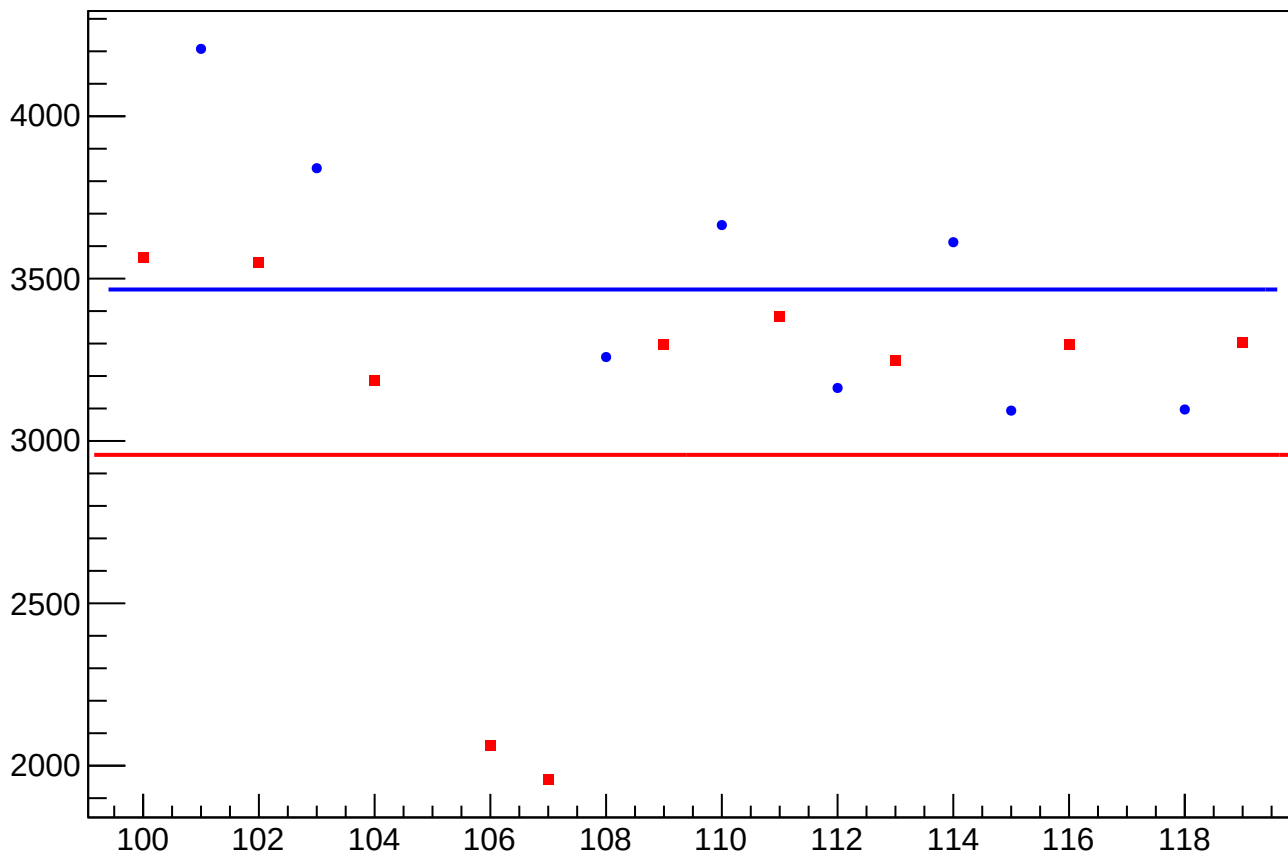
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 870.782+/-1188.491  $\chi^2/\text{NDF}$ : 18.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3466.488 $\pm$ 1.357  $\chi^2$ /NDF: 86197.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2957.186 $\pm$ 1.070  $\chi^2$ /NDF: 317255.0/9

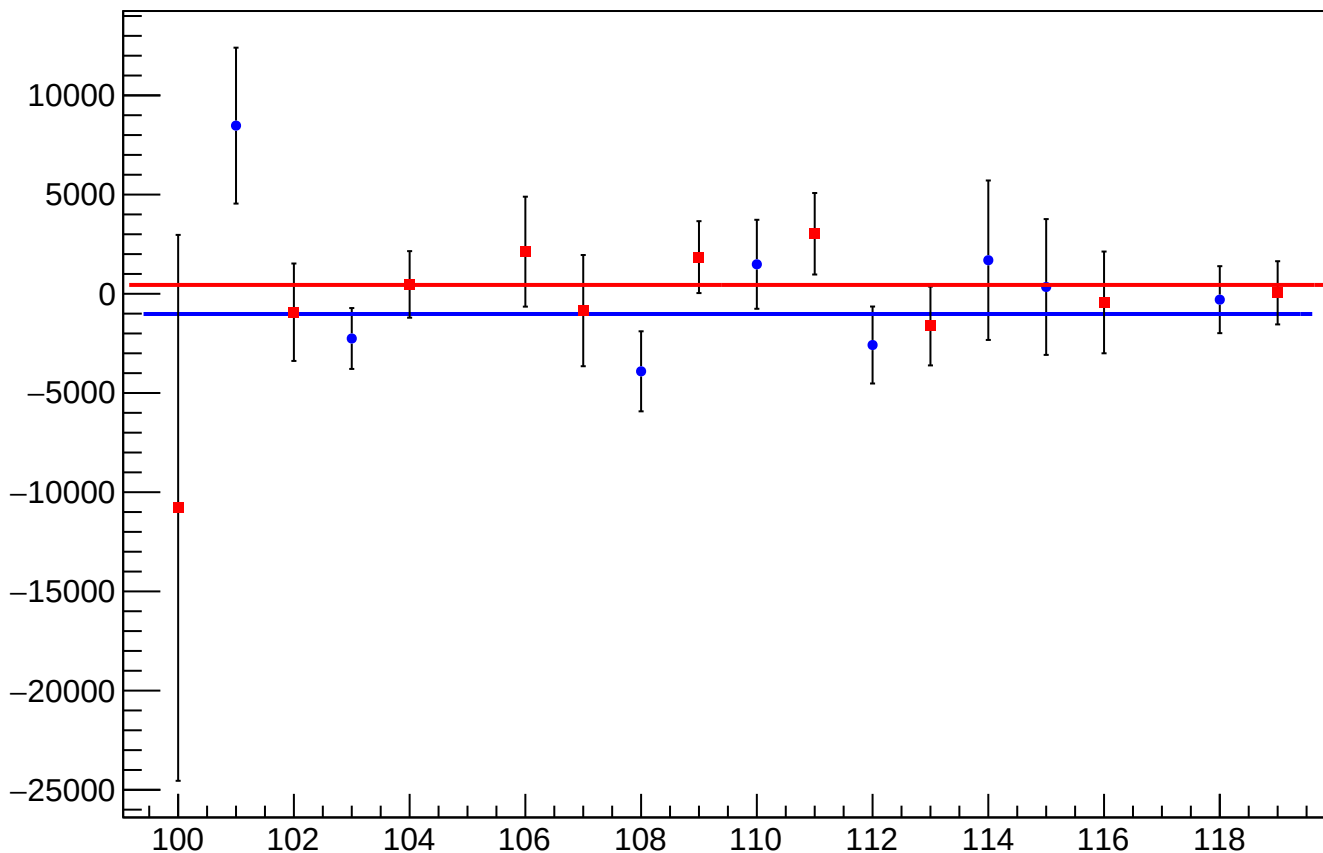
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3152.549 $\pm$ 0.840  $\chi^2$ /NDF: 490293.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -1018.249 $\pm$ 767.356  $\chi^2$ /NDF: 11.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 446.283 $\pm$ 685.988  $\chi^2$ /NDF: 5.0/9

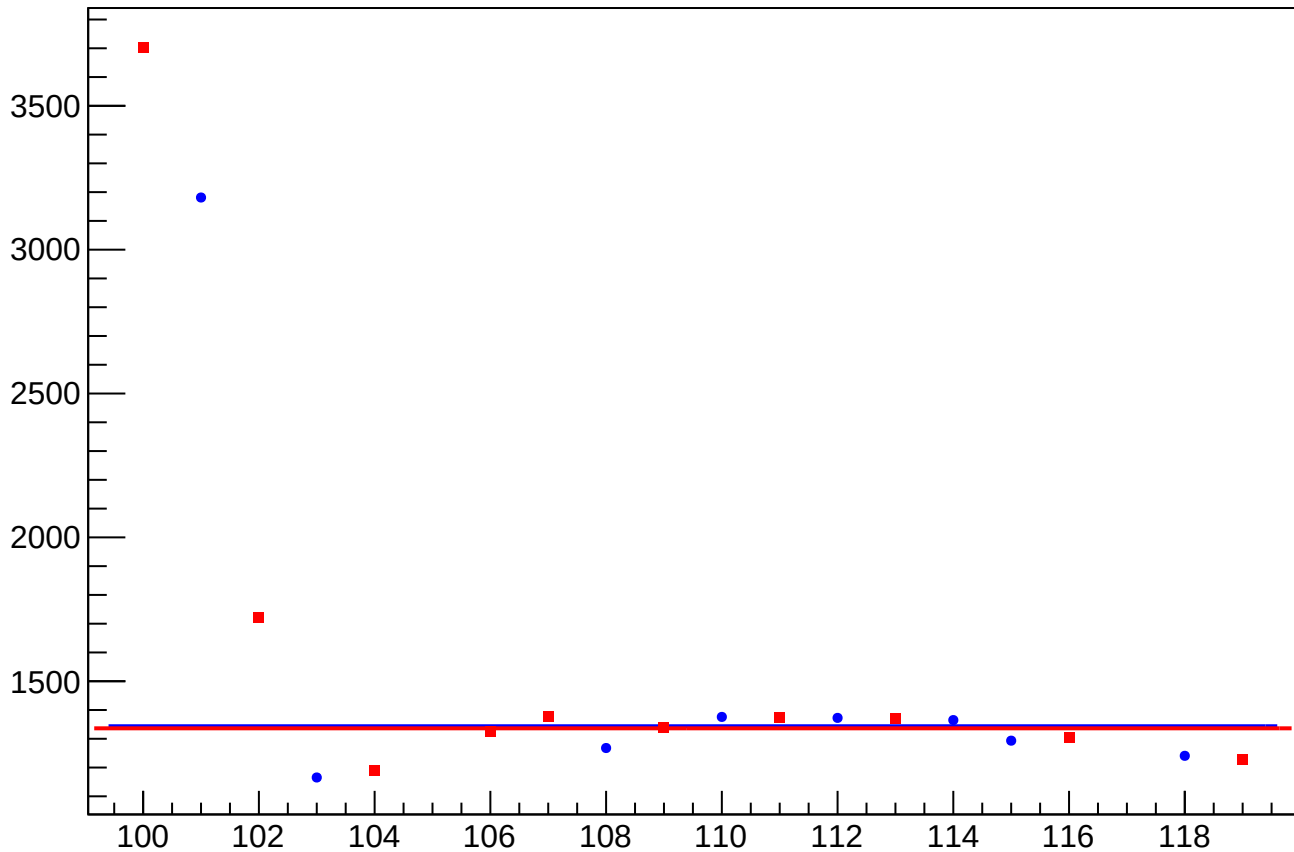
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -204.245 $\pm$ 511.423  $\chi^2$ /NDF: 18.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 1343.497 $\pm$ 0.543  $\chi^2$ /NDF: 476053.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1336.319 $\pm$ 0.484  $\chi^2$ /NDF: 134582.2/9

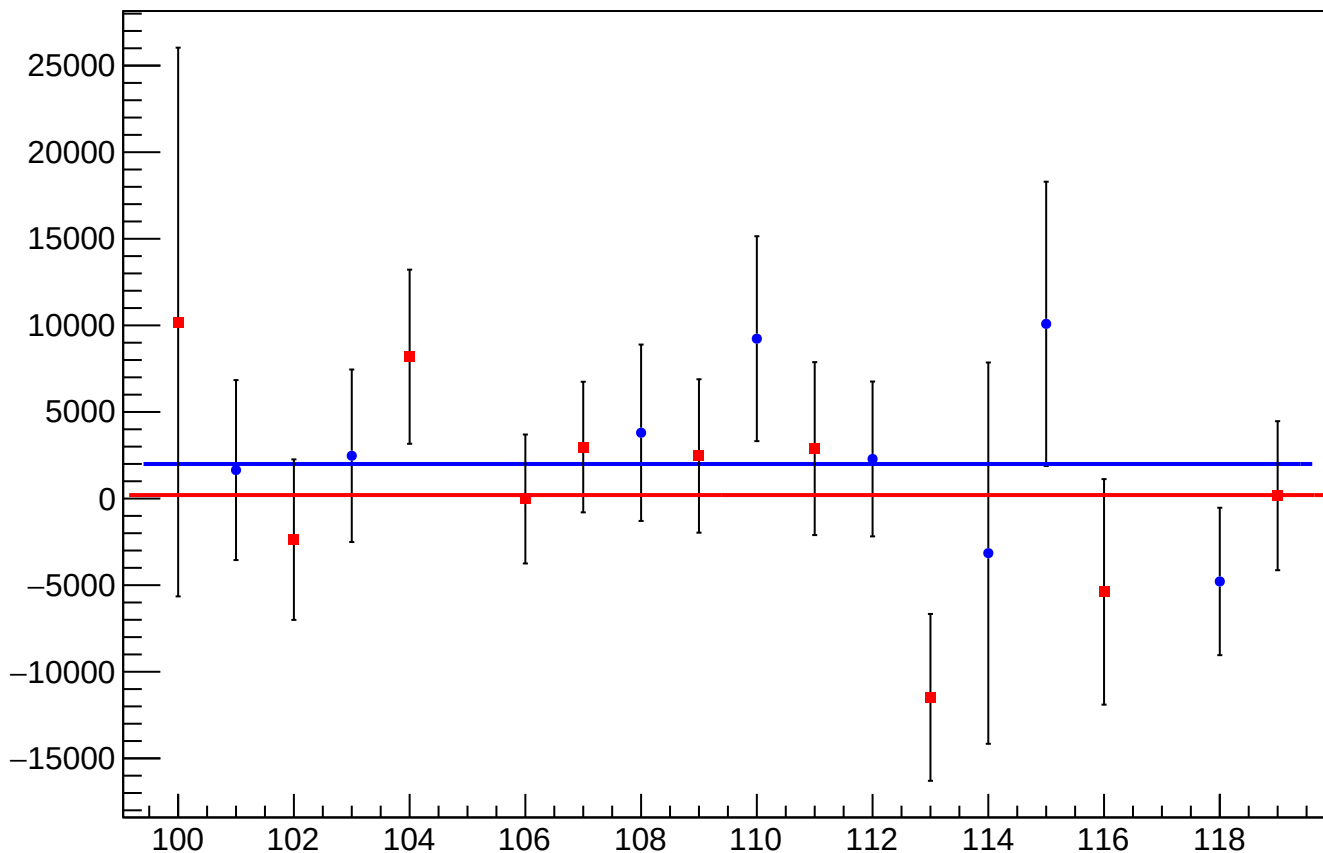
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1339.502 $\pm$ 0.361  $\chi^2$ /NDF: 610732.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_correction\_mean vs Slug



Right In: 1997.194+/-1914.404  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 202.496+/-1500.109  $\chi^2/\text{NDF}$ : 10.9/9

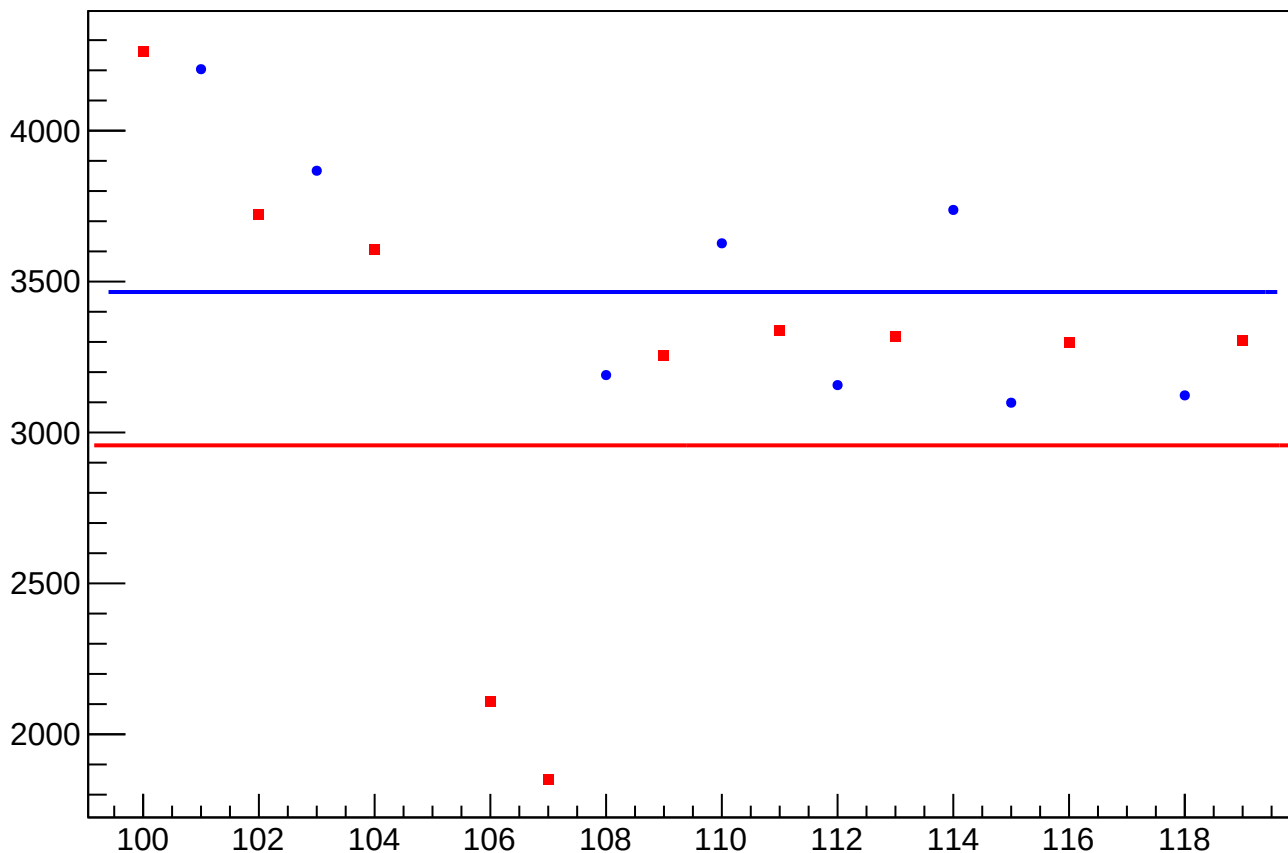
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 885.247+/-1180.780  $\chi^2/\text{NDF}$ : 16.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_correction\_rms vs Slug



Right In: 3465.464+/-1.354  $\chi^2/\text{NDF}$ : 88418.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2957.346+/-1.061  $\chi^2/\text{NDF}$ : 428864.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

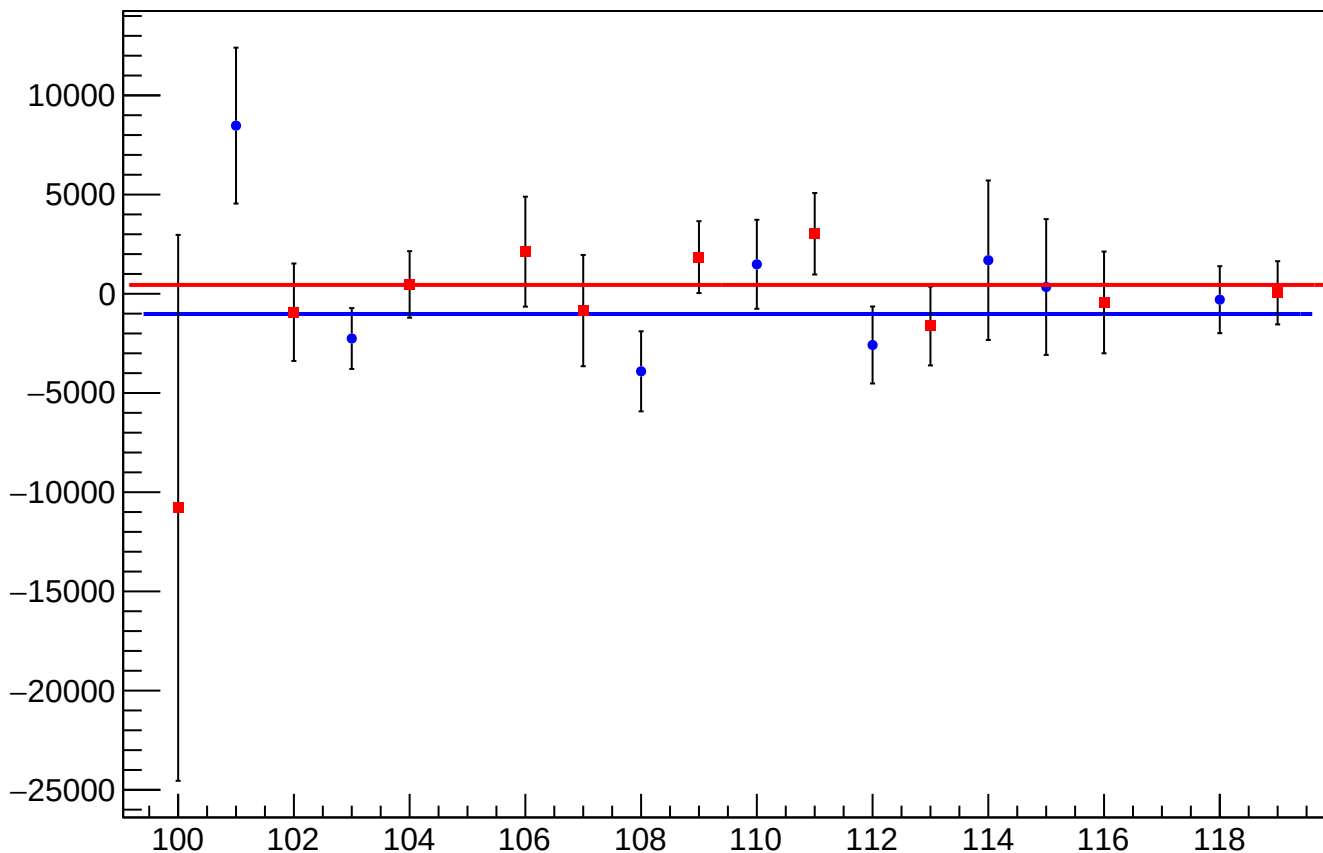
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3150.648+/-0.835  $\chi^2/\text{NDF}$ : 604577.6/17

- 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: -1018.252 $\pm$ 767.356  $\chi^2/\text{NDF}$ : 11.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 446.292 $\pm$ 685.988  $\chi^2/\text{NDF}$ : 5.0/9

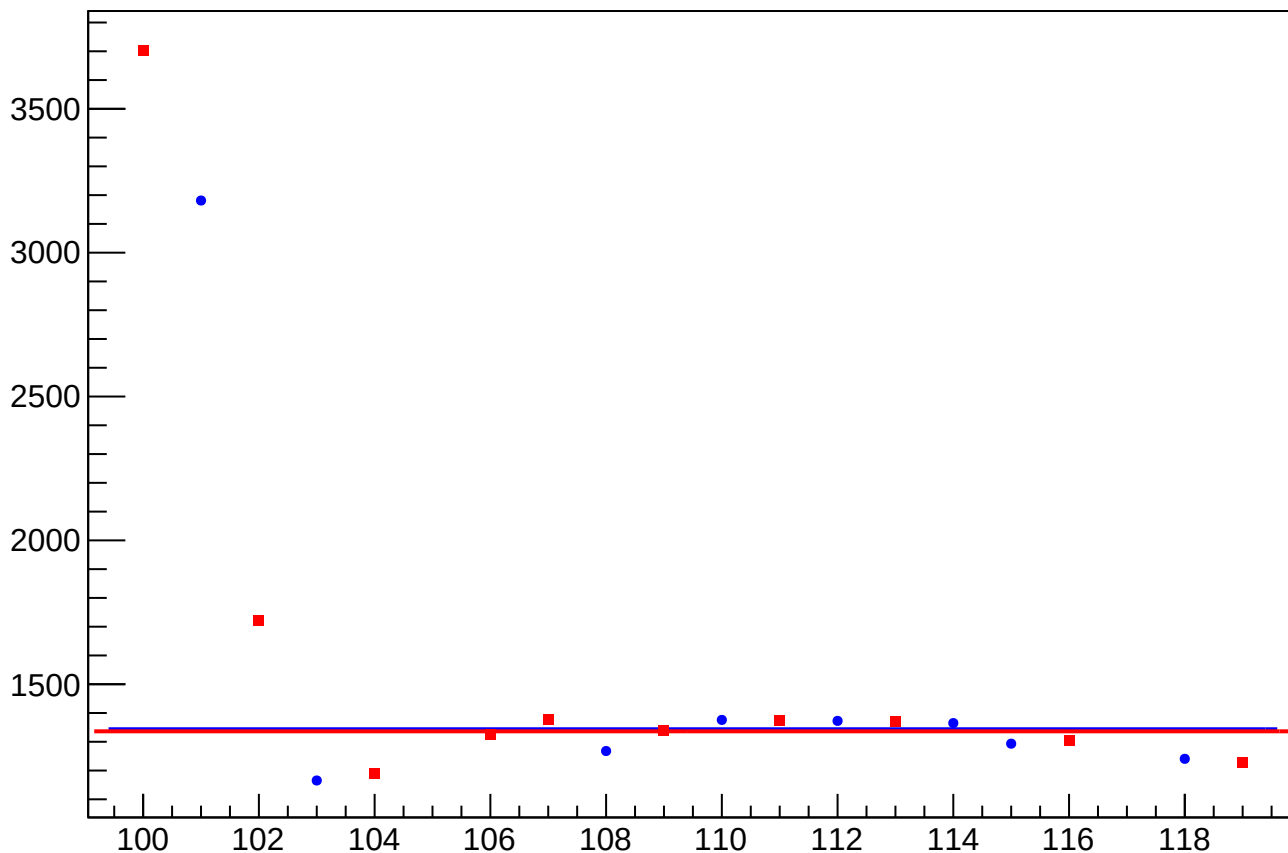
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -204.242 $\pm$ 511.423  $\chi^2/\text{NDF}$ : 18.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 1343.497+/-0.543  $\chi^2/\text{NDF}$ : 476053.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1336.319+/-0.484  $\chi^2/\text{NDF}$ : 134582.2/9

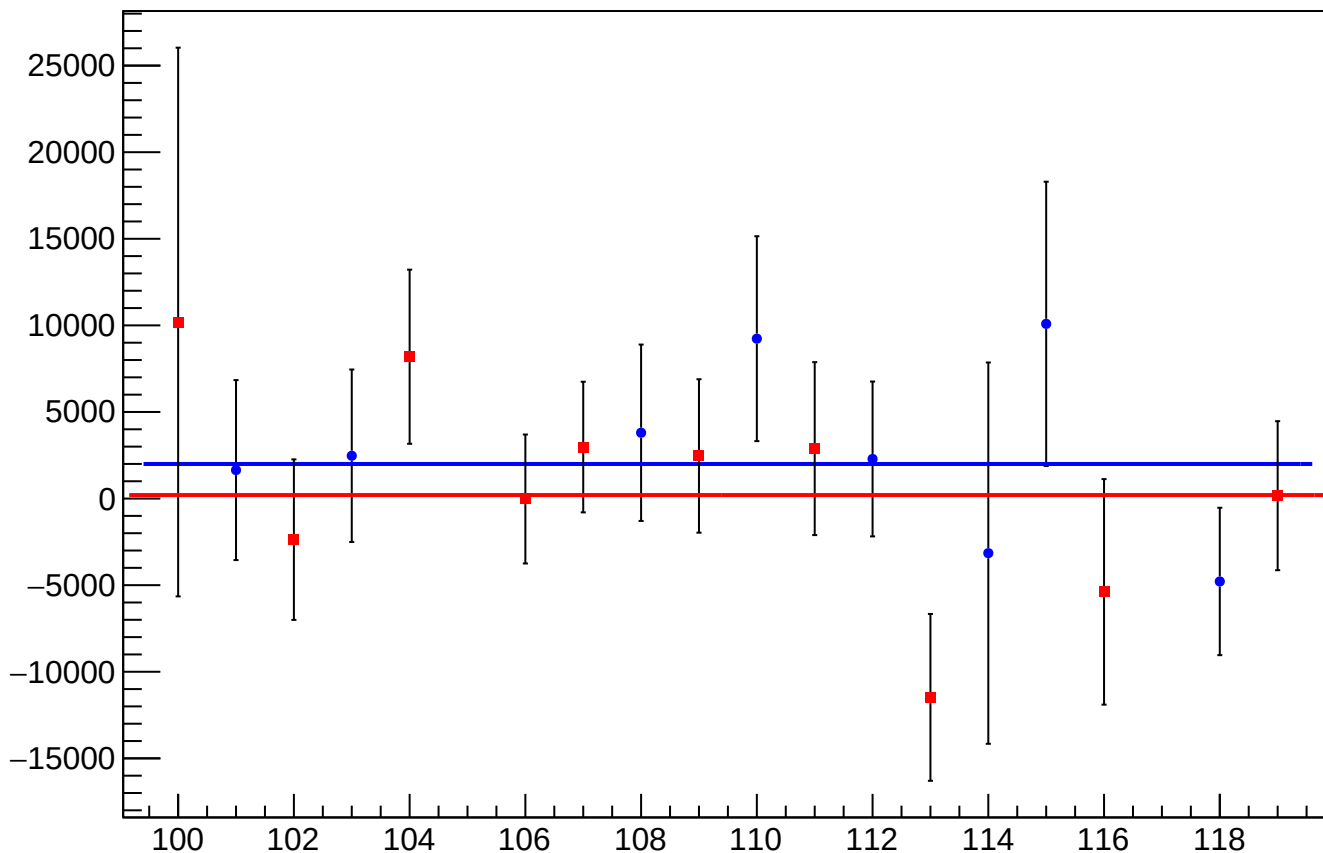
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1339.502+/-0.361  $\chi^2/\text{NDF}$ : 610732.8/17

- 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: 1997.186+/-1914.399  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 202.501+/-1500.106  $\chi^2/\text{NDF}$ : 10.9/9

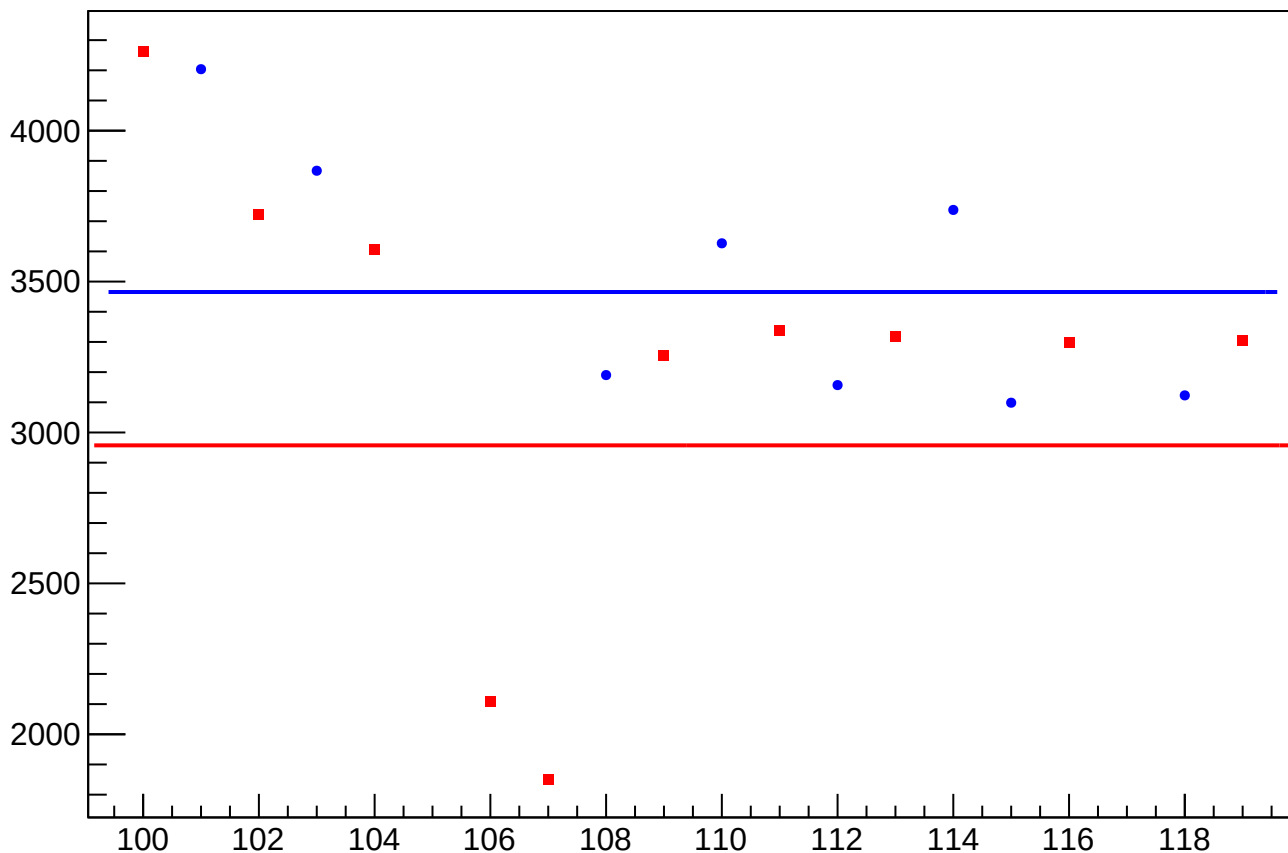
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 885.247+/-1180.778  $\chi^2/\text{NDF}$ : 16.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 3465.456 $\pm$ 1.354  $\chi^2$ /NDF: 88420.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2957.339 $\pm$ 1.061  $\chi^2$ /NDF: 428866.2/9

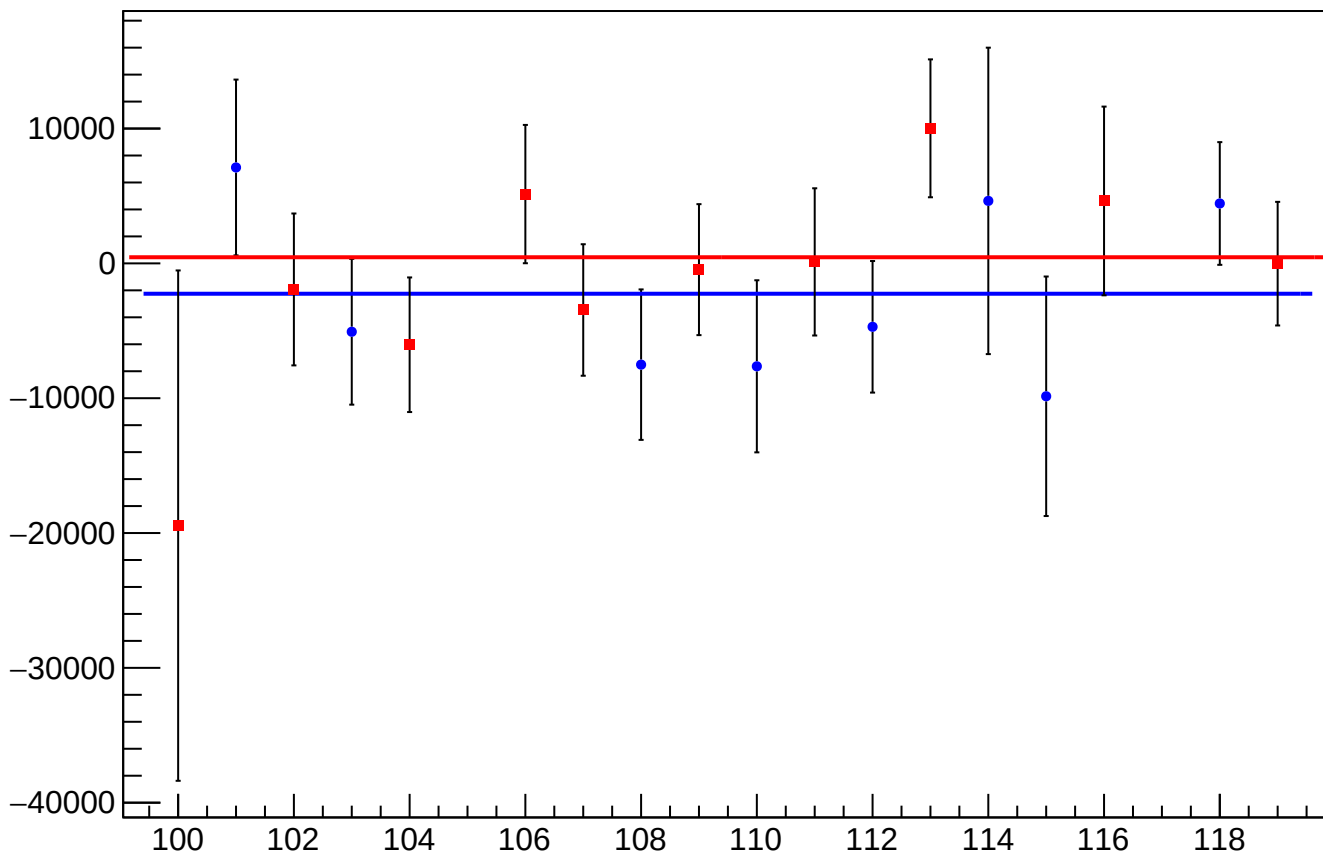
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3150.640 $\pm$ 0.835  $\chi^2$ /NDF: 604581.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -2251.884 $\pm$ 2107.518  $\chi^2$ /NDF: 7.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 454.670 $\pm$ 1723.460  $\chi^2$ /NDF: 8.4/9

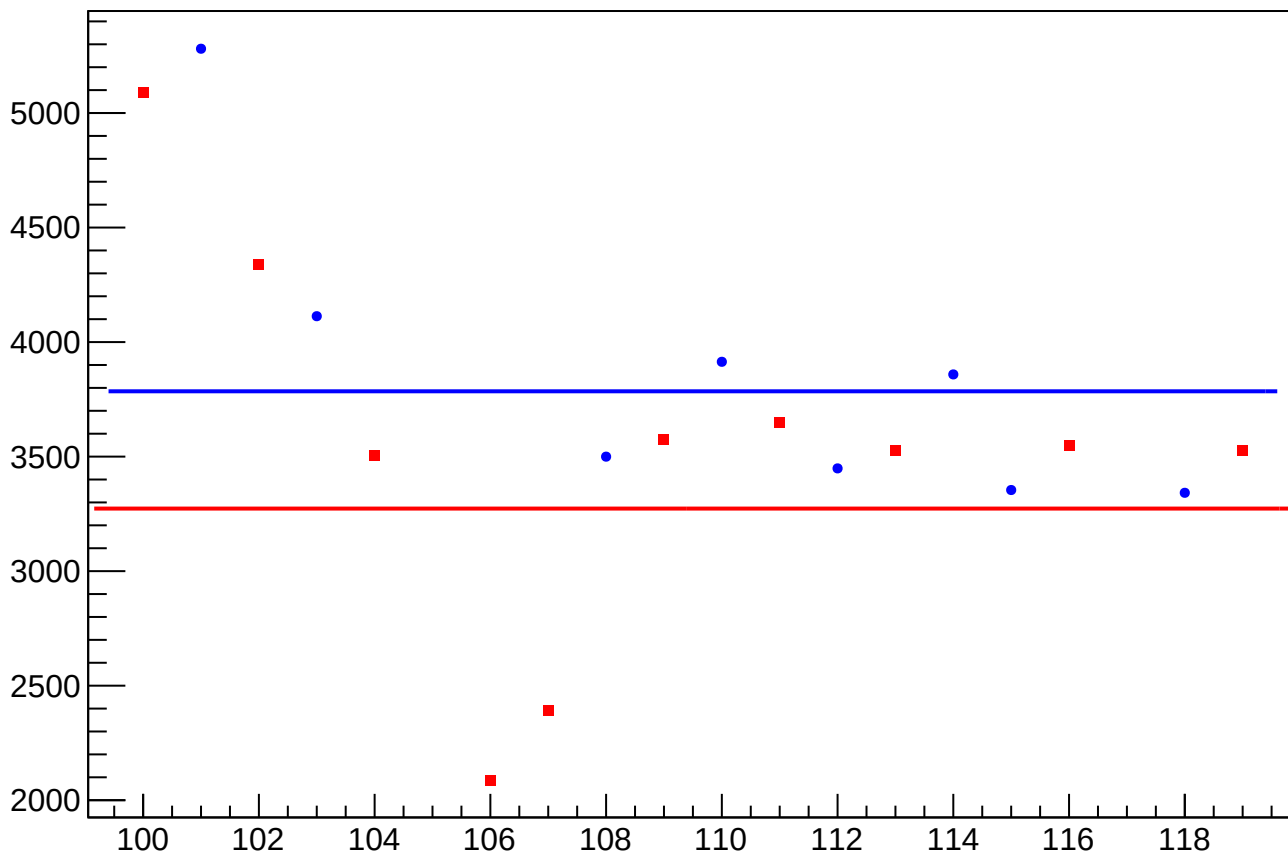
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -629.973 $\pm$ 1334.155  $\chi^2$ /NDF: 16.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 3785.140+/-1.490  $\chi^2/\text{NDF}$ : 151963.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3273.153+/-1.191  $\chi^2/\text{NDF}$ : 341083.9/9

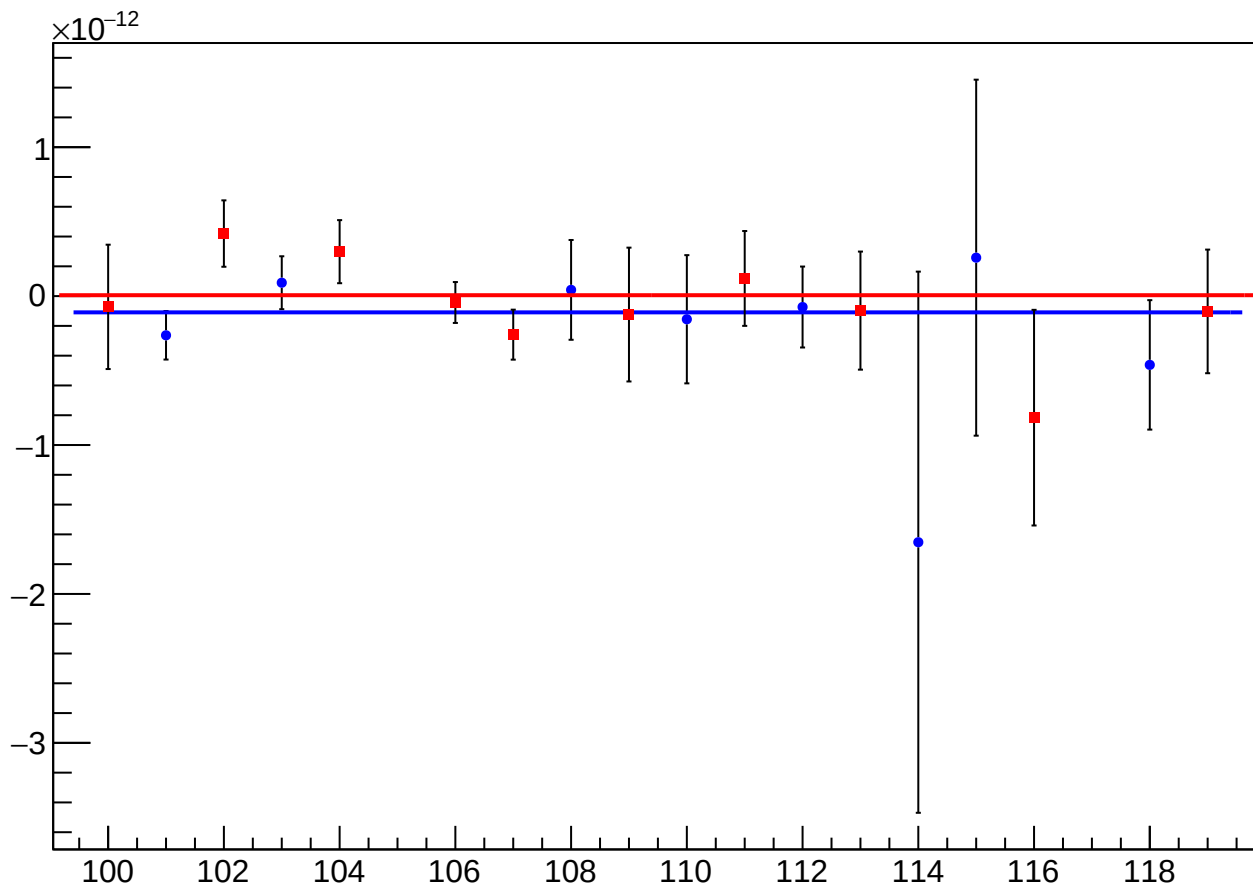
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3472.794+/-0.931  $\chi^2/\text{NDF}$ : 565058.4/17

- 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  $\chi^2/\text{NDF}$ : 3.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.6/9

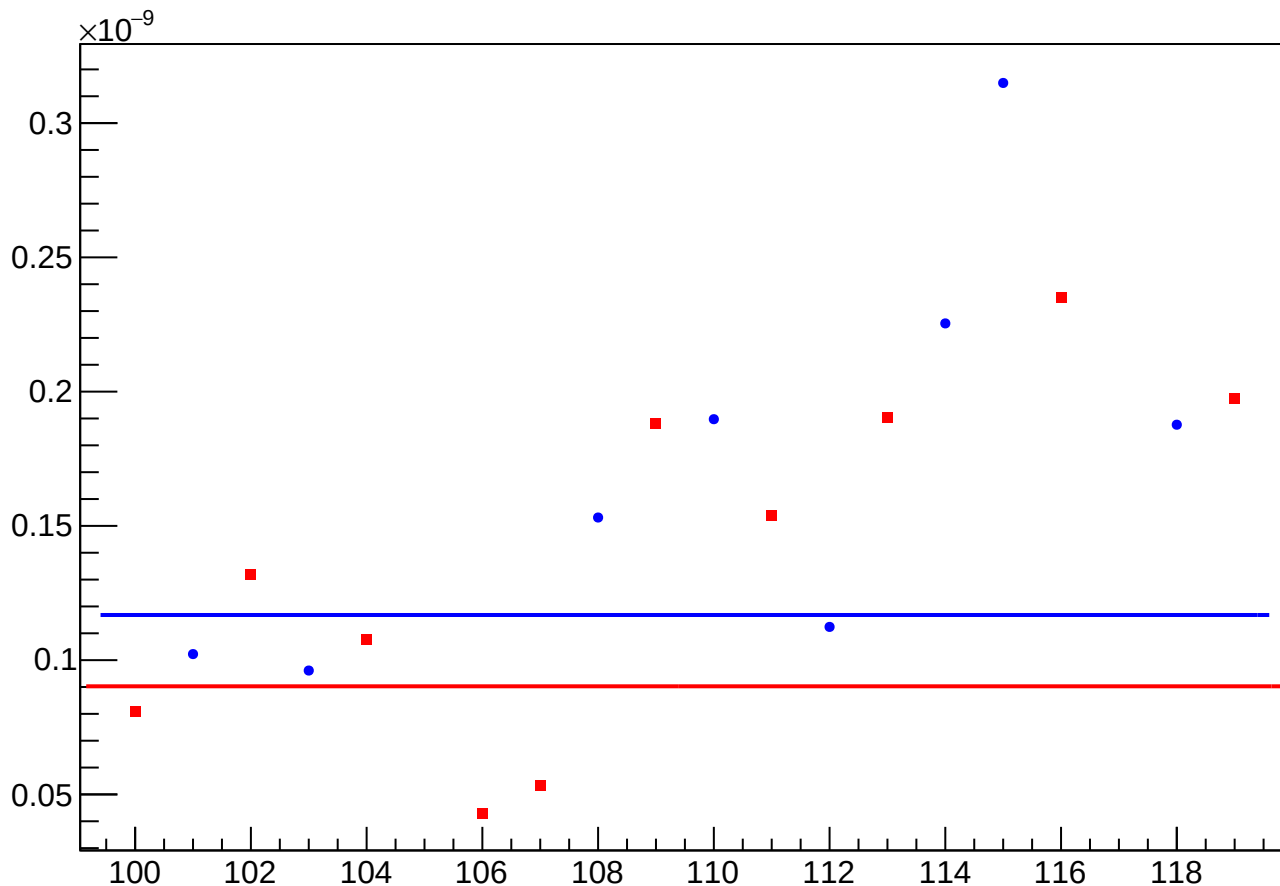
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.3/17

- 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: 239719.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 934312.8/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

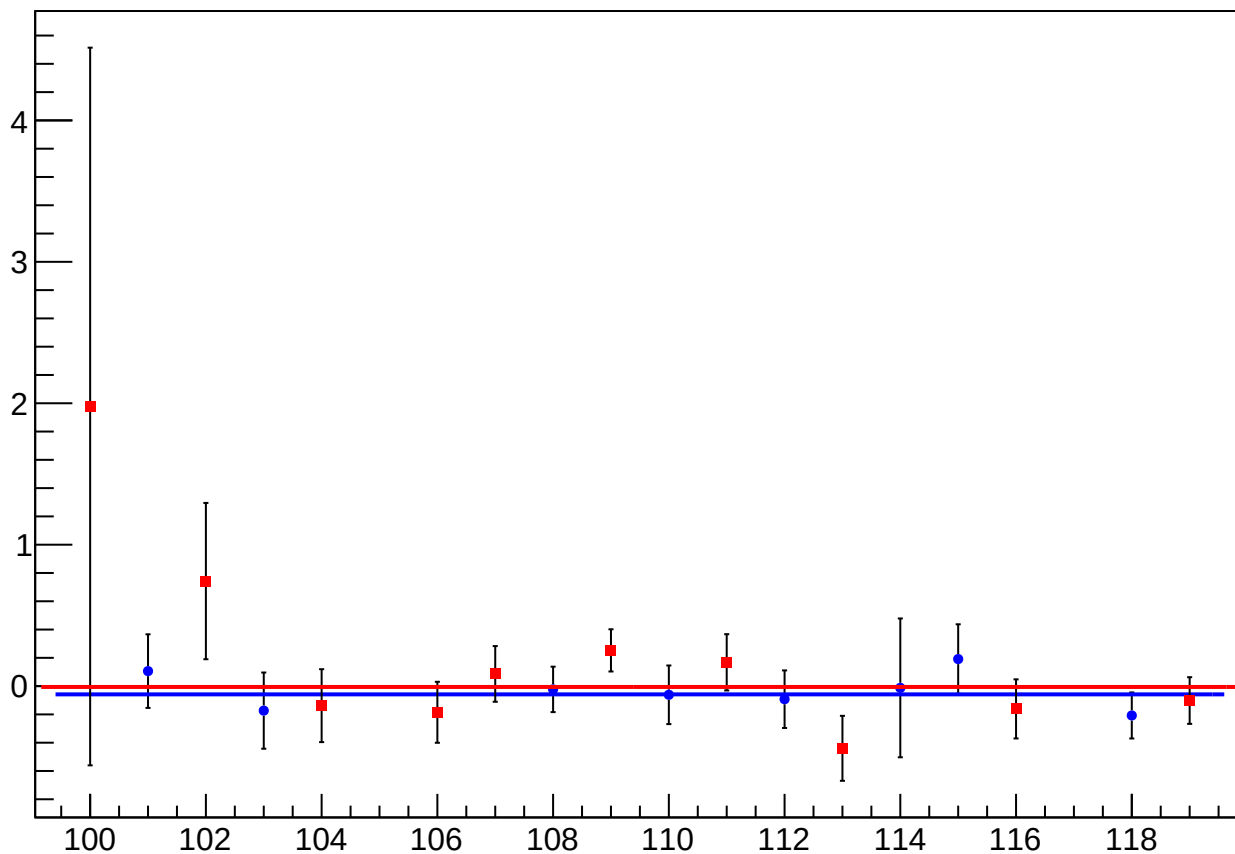
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1263860.8/17

- 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:  $-0.058 \pm 0.076$   $\chi^2/\text{NDF}$ : 2.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.006 \pm 0.068$   $\chi^2/\text{NDF}$ : 11.8/9

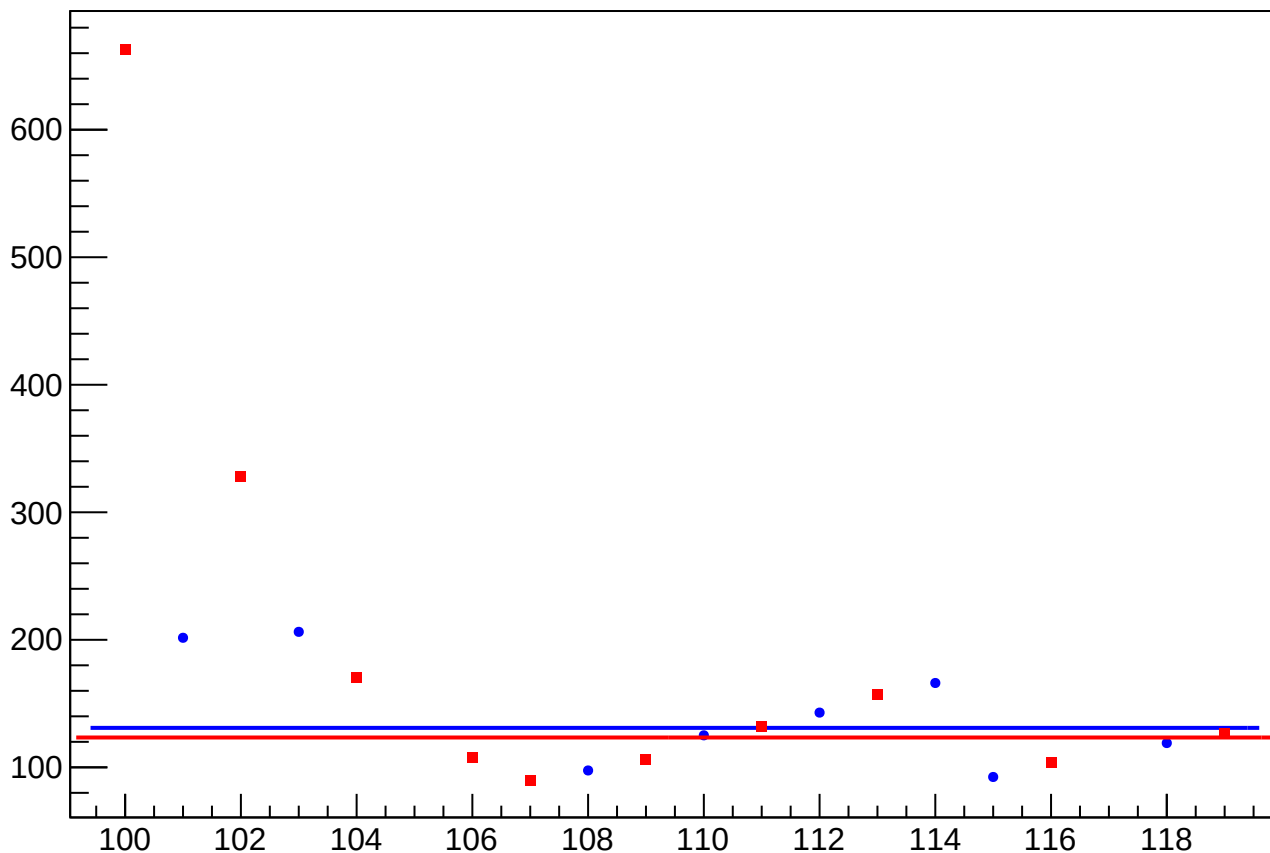
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.029 \pm 0.051$   $\chi^2/\text{NDF}$ : 14.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 130.952+/-0.054  $\chi^2/\text{NDF}$ : 468617.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 123.400+/-0.048  $\chi^2/\text{NDF}$ : 592734.1/9

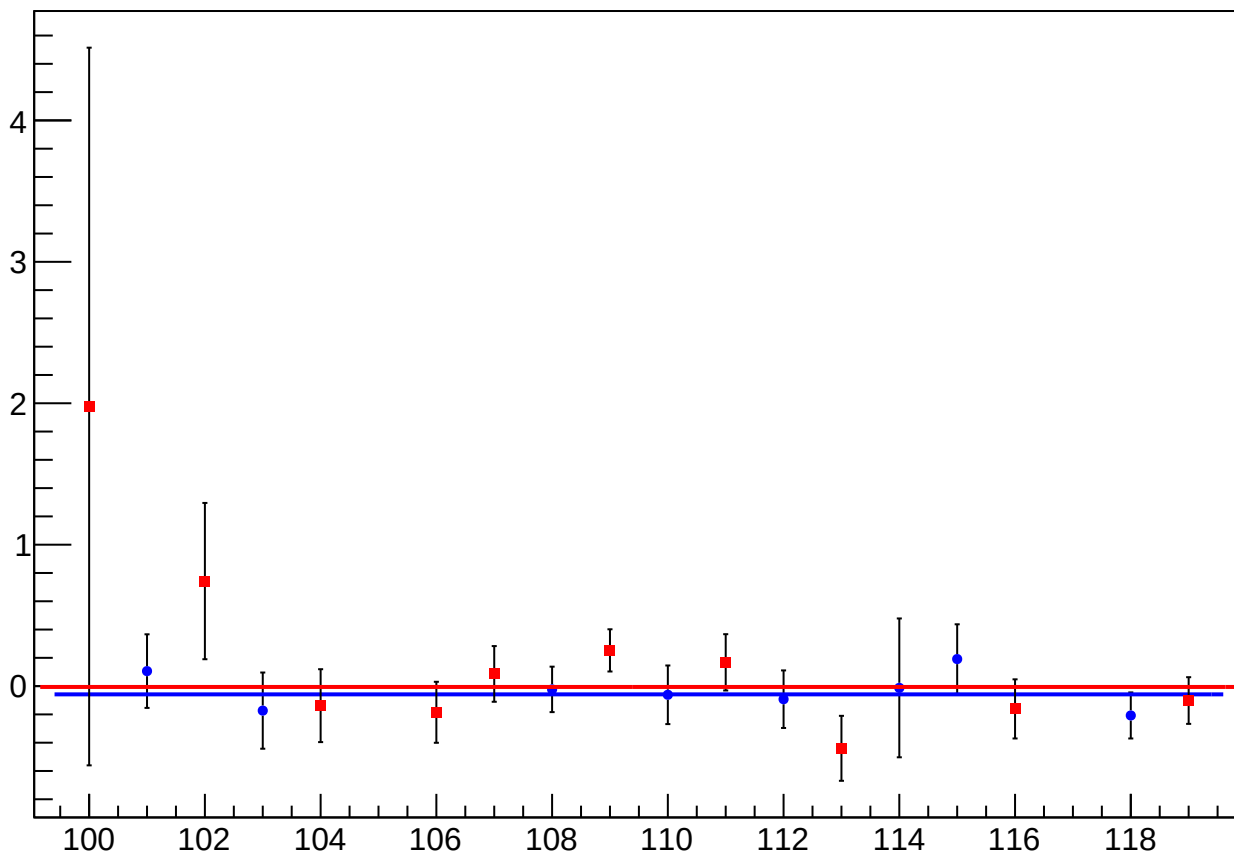
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 126.773+/-0.036  $\chi^2/\text{NDF}$ : 1072277.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.058 $\pm$ 0.076  $\chi^2$ /NDF: 2.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.006 $\pm$ 0.068  $\chi^2$ /NDF: 11.8/9

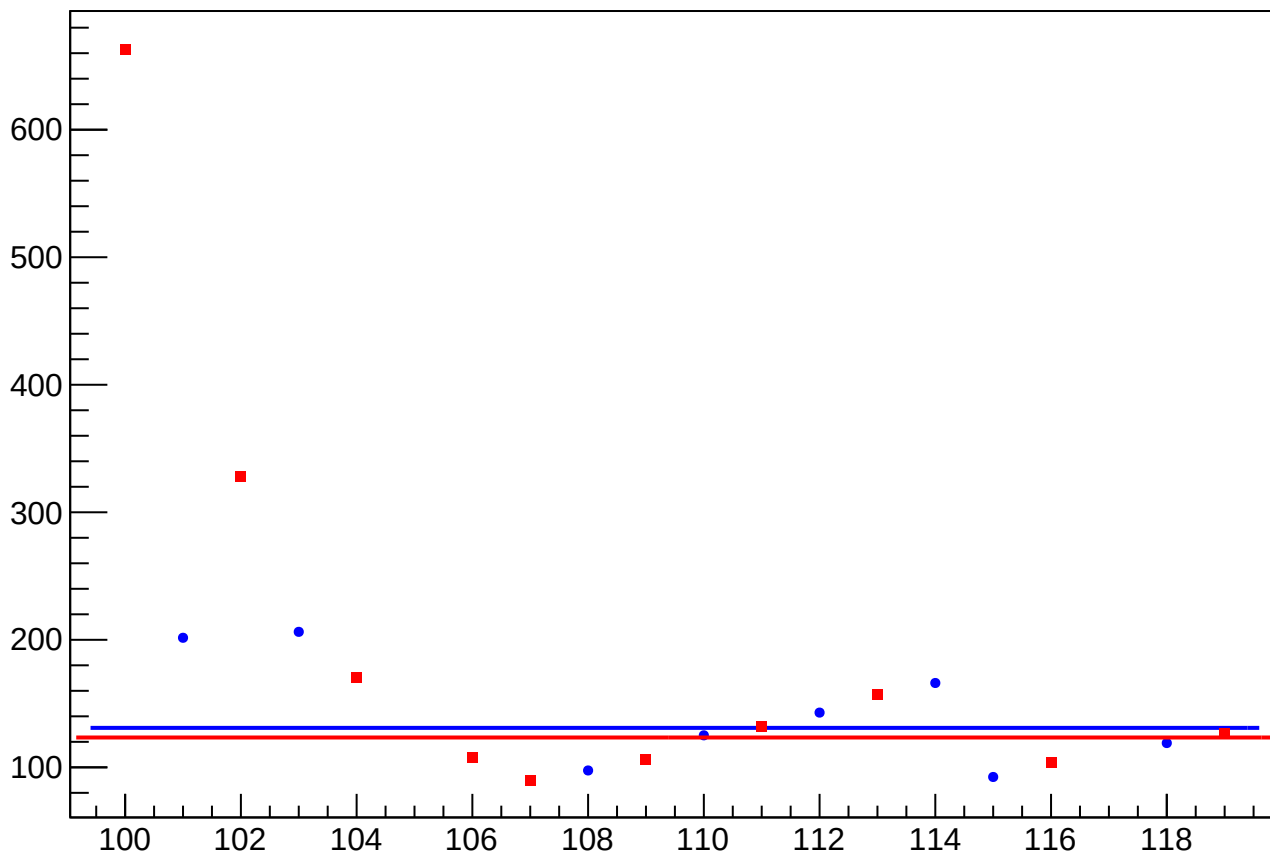
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.029 $\pm$ 0.051  $\chi^2$ /NDF: 14.6/17

- 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: 130.952 $\pm$ 0.054  $\chi^2$ /NDF: 468617.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 123.400 $\pm$ 0.048  $\chi^2$ /NDF: 592734.1/9

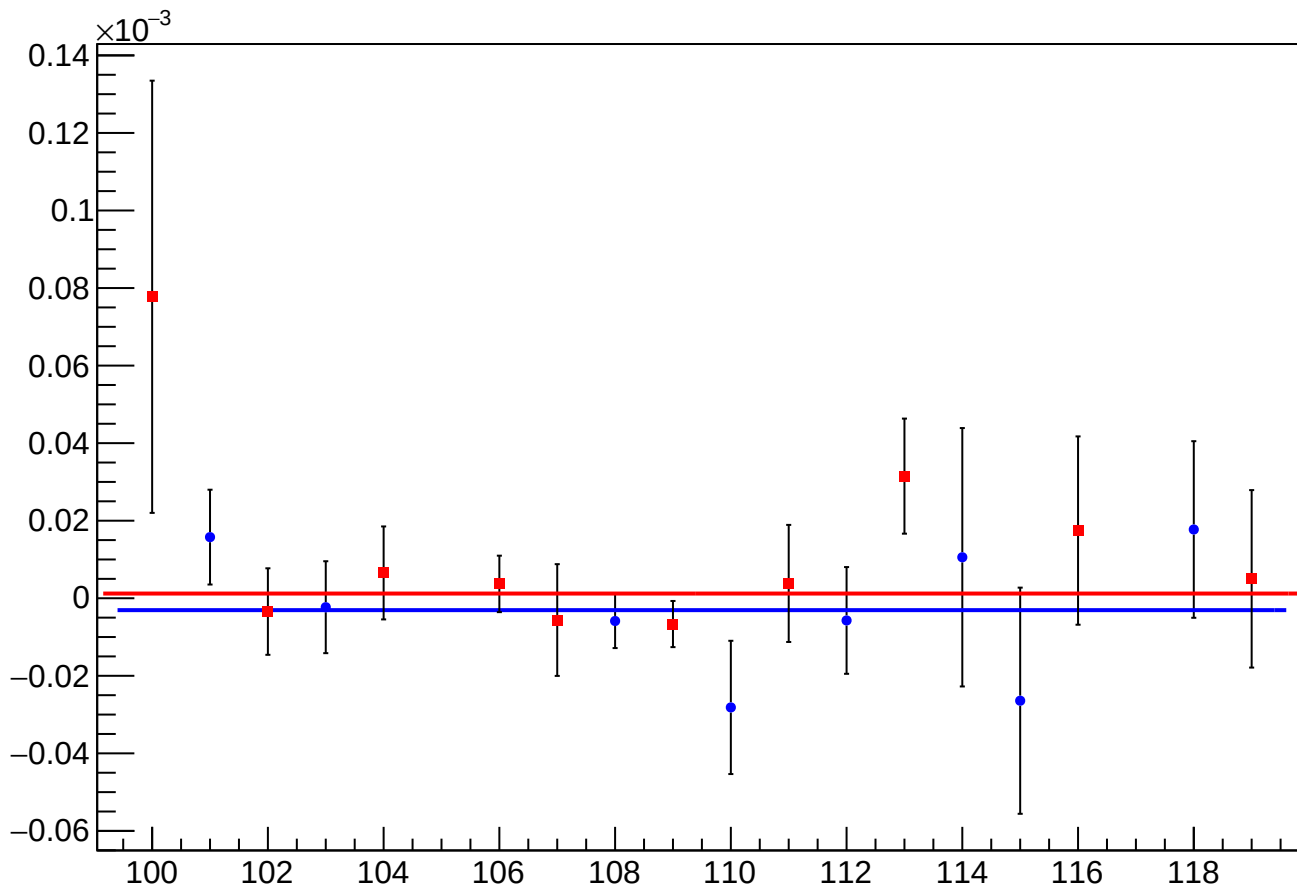
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 126.773 $\pm$ 0.036  $\chi^2$ /NDF: 1072277.2/17

- 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 $\pm$ -0.000  $\chi^2$ /NDF: 6.3/7

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 9.0/9

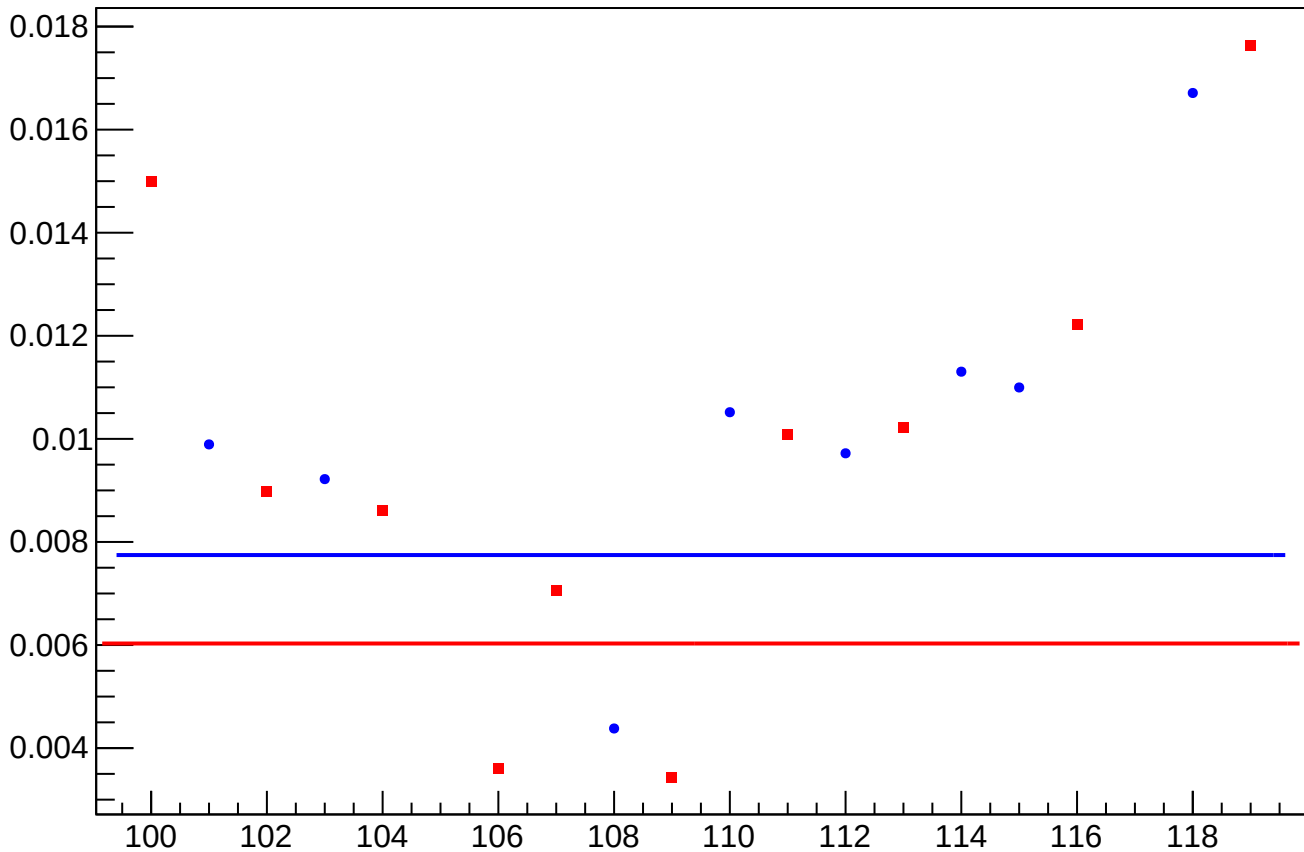
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ -0.000  $\chi^2$ /NDF: 15.9/17

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.008 $\pm$ 0.000  $\chi^2$ /NDF: 1007561.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.006 $\pm$ 0.000  $\chi^2$ /NDF: 1845685.6/9

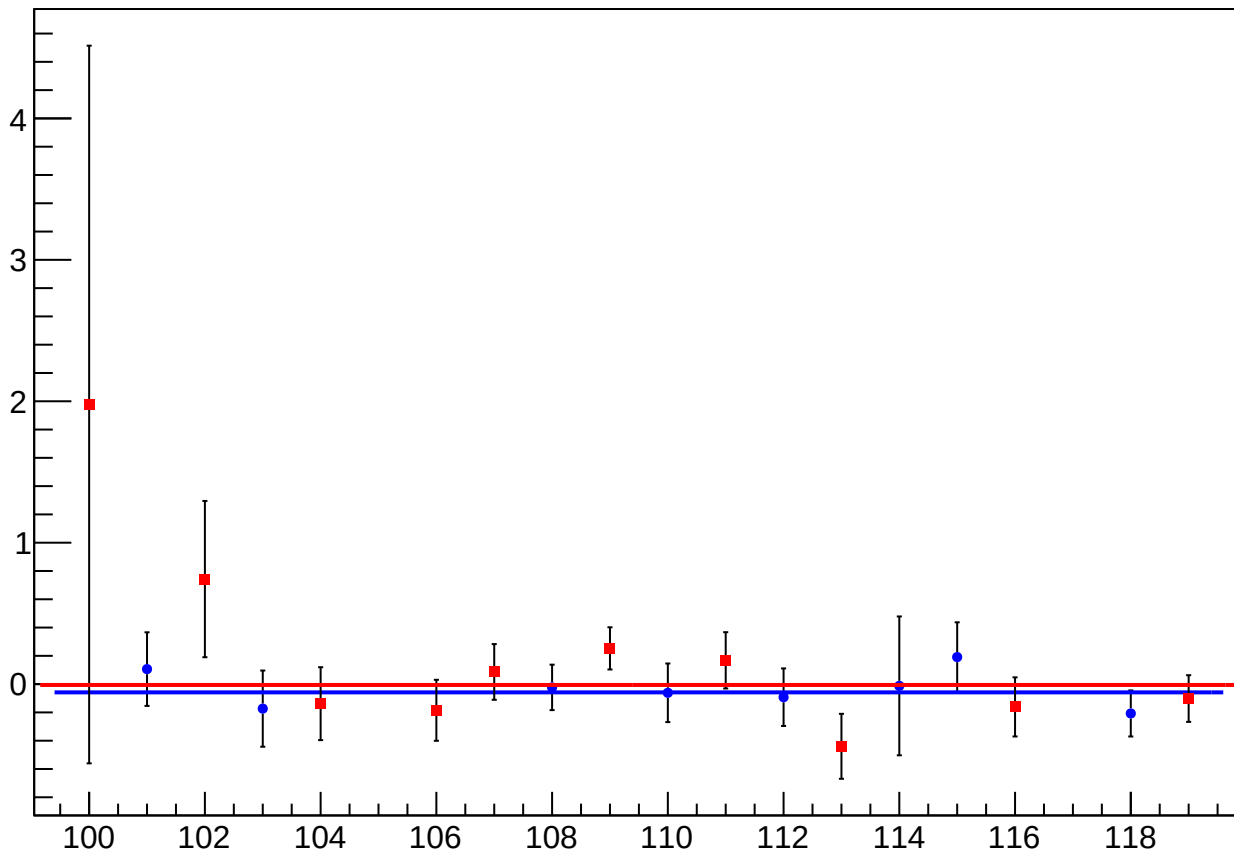
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 3027414.5/17

- 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: -0.058+/-0.076  $\chi^2/\text{NDF}$ : 2.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.006+/-0.068  $\chi^2/\text{NDF}$ : 11.8/9

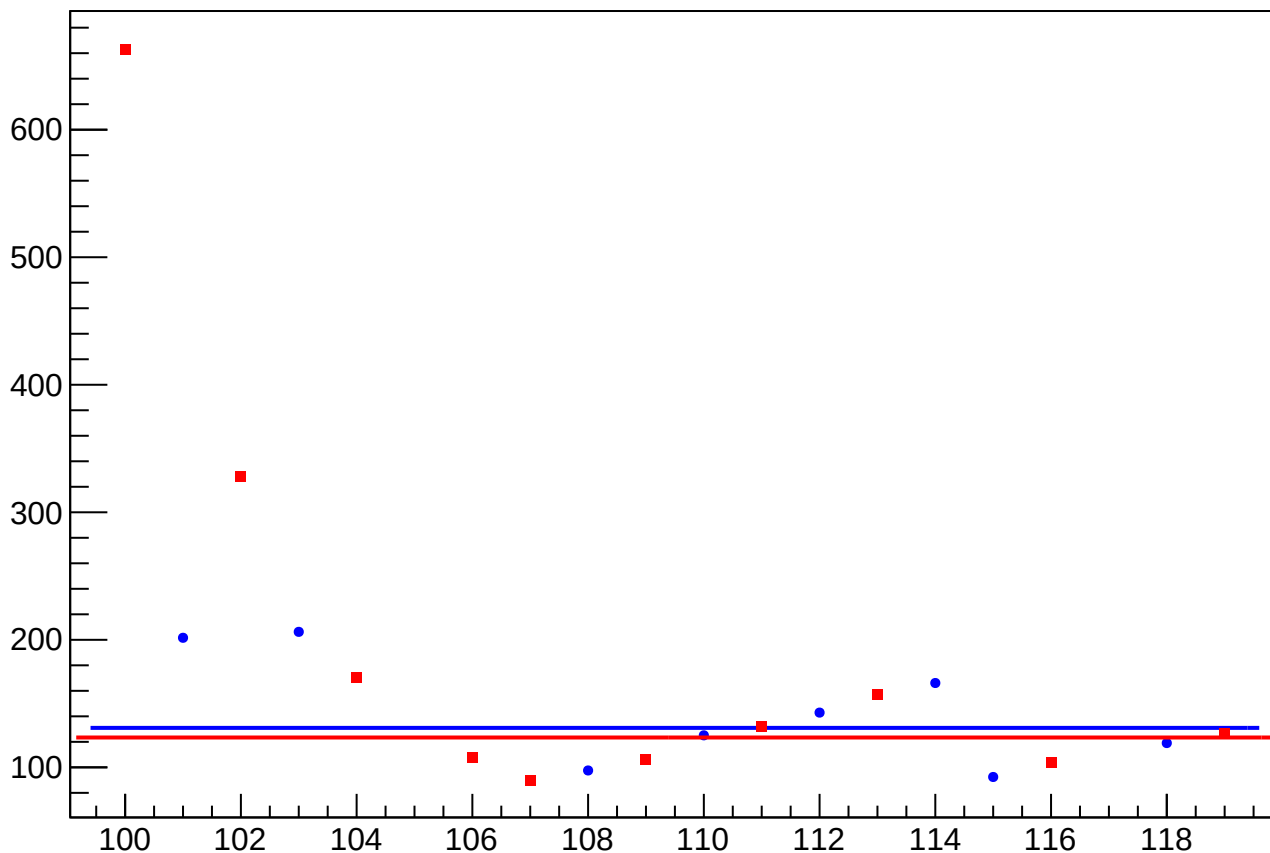
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.029+/-0.051  $\chi^2/\text{NDF}$ : 14.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 130.952+/-0.054  $\chi^2/\text{NDF}$ : 468584.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 123.403+/-0.048  $\chi^2/\text{NDF}$ : 592687.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

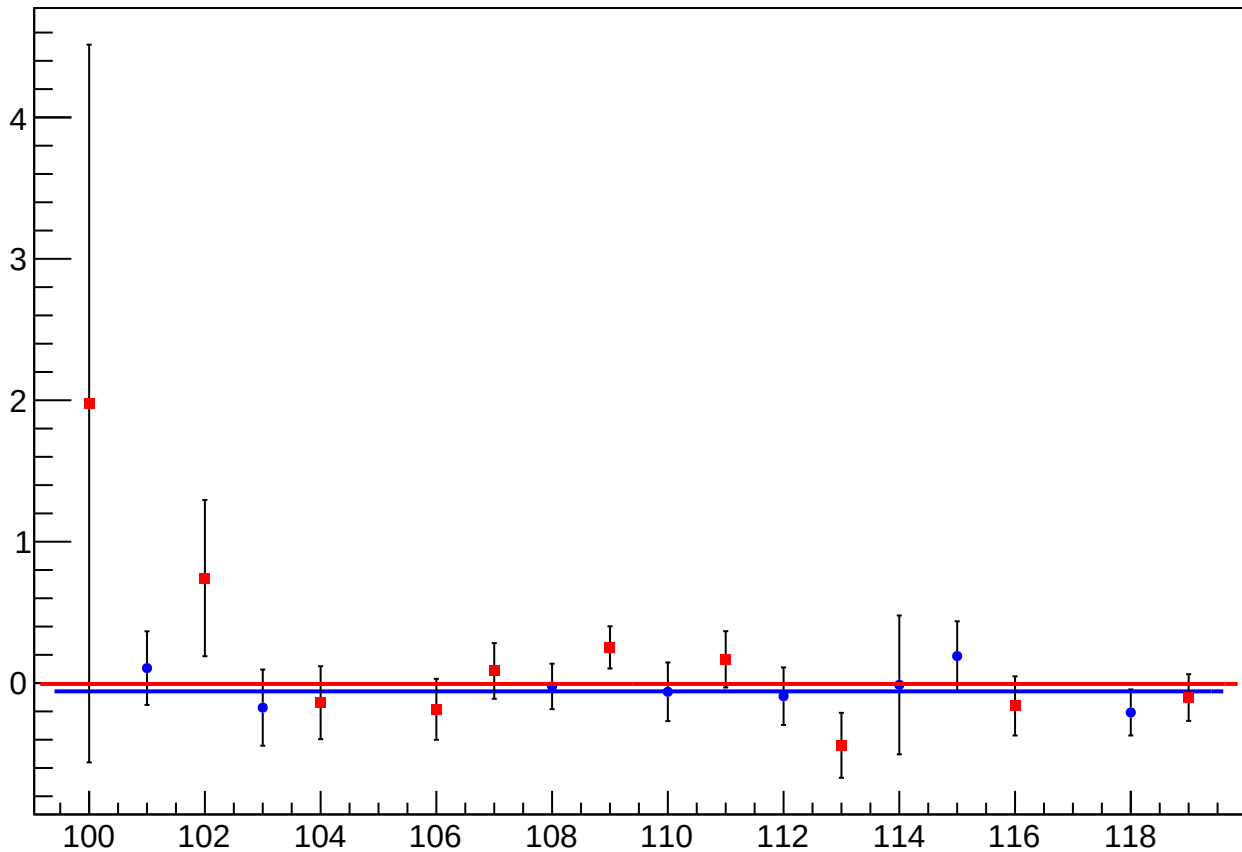
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 126.775+/-0.036  $\chi^2/\text{NDF}$ : 1072192.7/17

- 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: -0.058+/-0.076  $\chi^2/\text{NDF}$ : 2.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.006+/-0.068  $\chi^2/\text{NDF}$ : 11.8/9

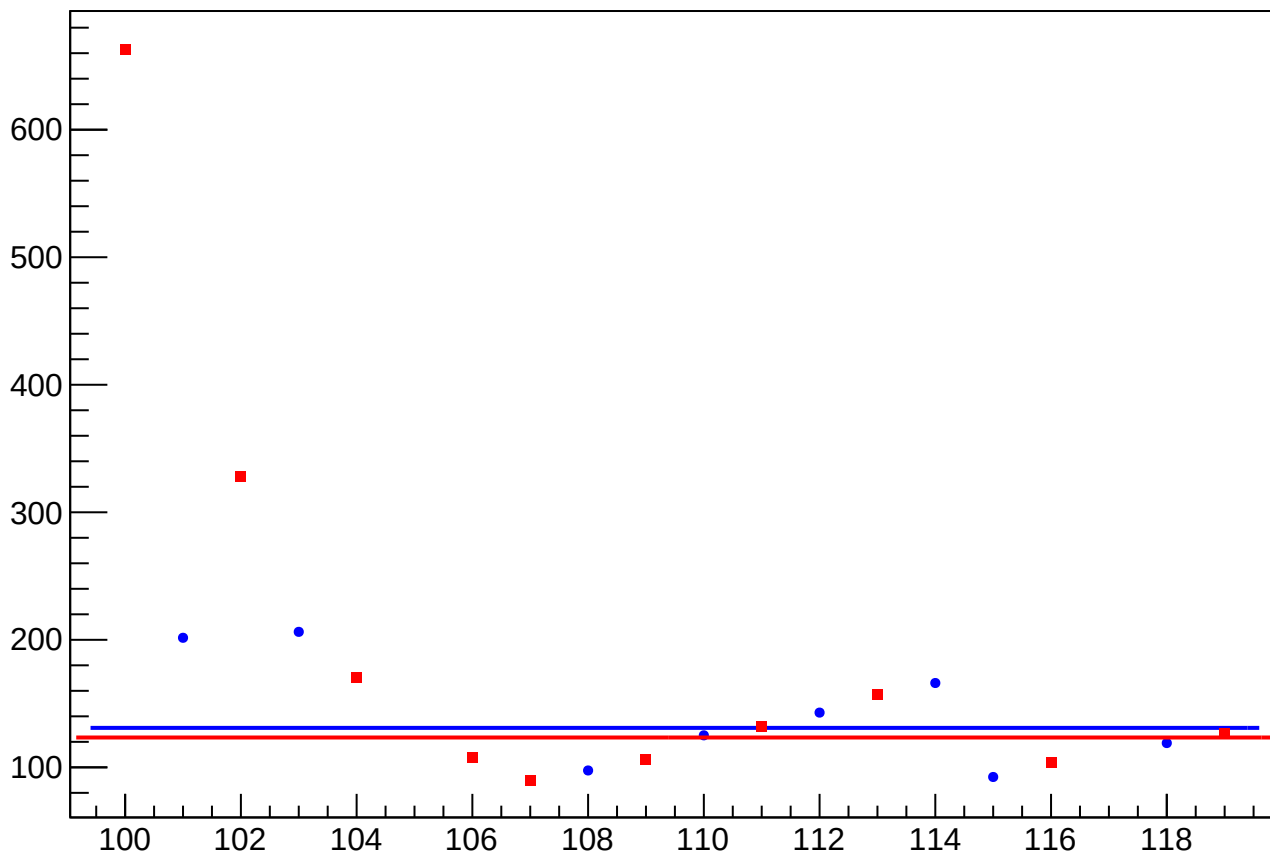
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.029+/-0.051  $\chi^2/\text{NDF}$ : 14.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 130.952 $\pm$ 0.054  $\chi^2$ /NDF: 468584.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 123.403 $\pm$ 0.048  $\chi^2$ /NDF: 592687.2/9

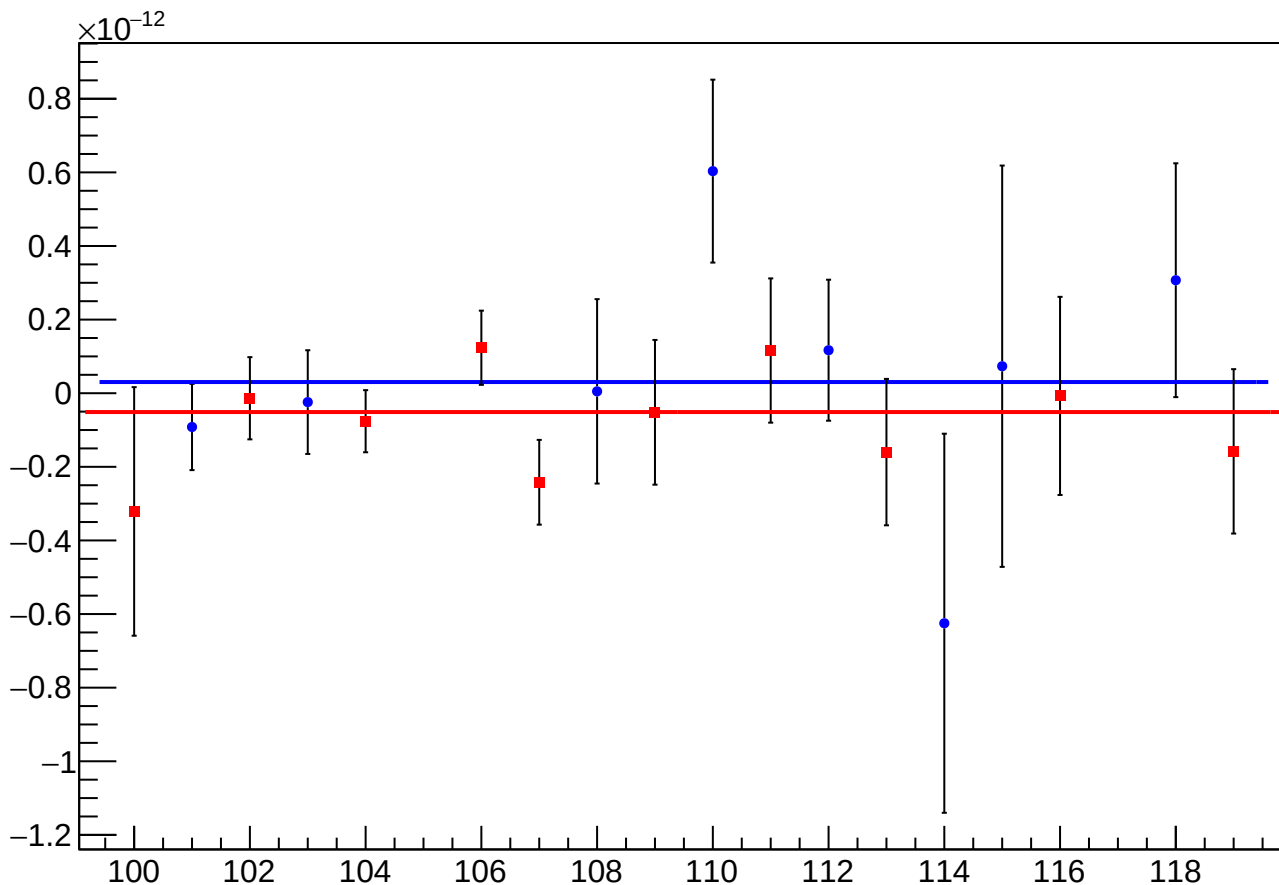
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 126.775 $\pm$ 0.036  $\chi^2$ /NDF: 1072192.7/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 9.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.9/9

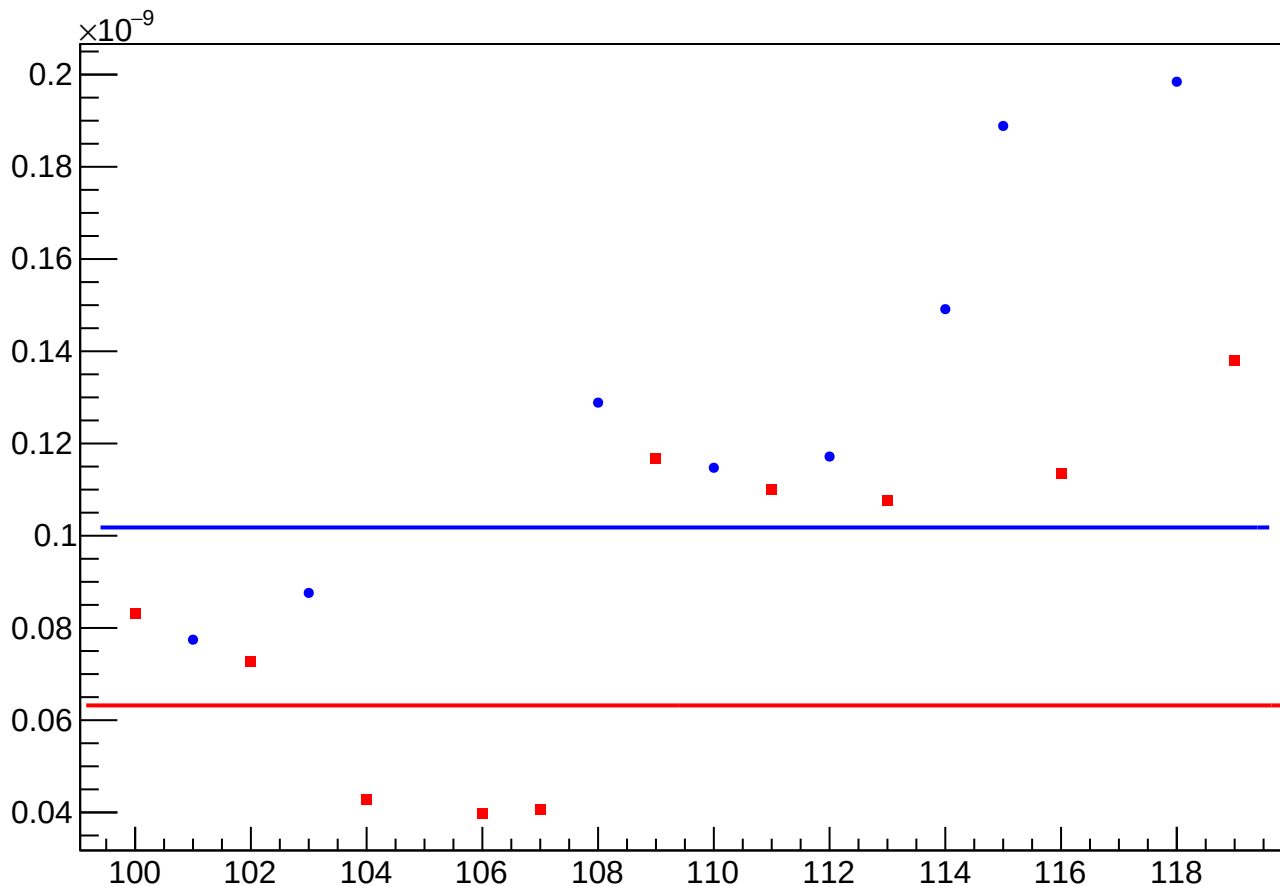
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 18.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 401403.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 979192.4/9

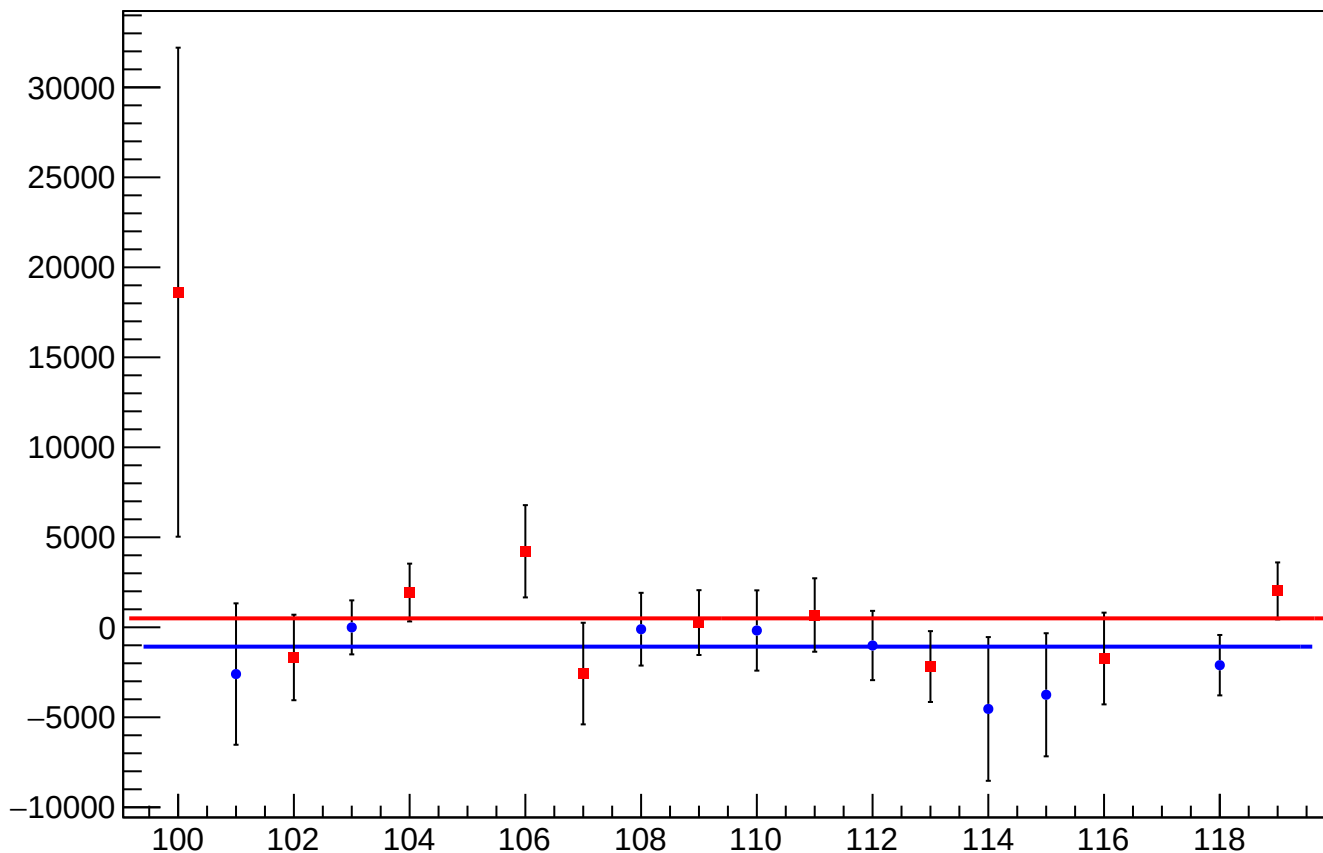
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1809096.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -1074.462 $\pm$ 760.724  $\chi^2$ /NDF: 2.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 496.610 $\pm$ 672.908  $\chi^2$ /NDF: 10.3/9

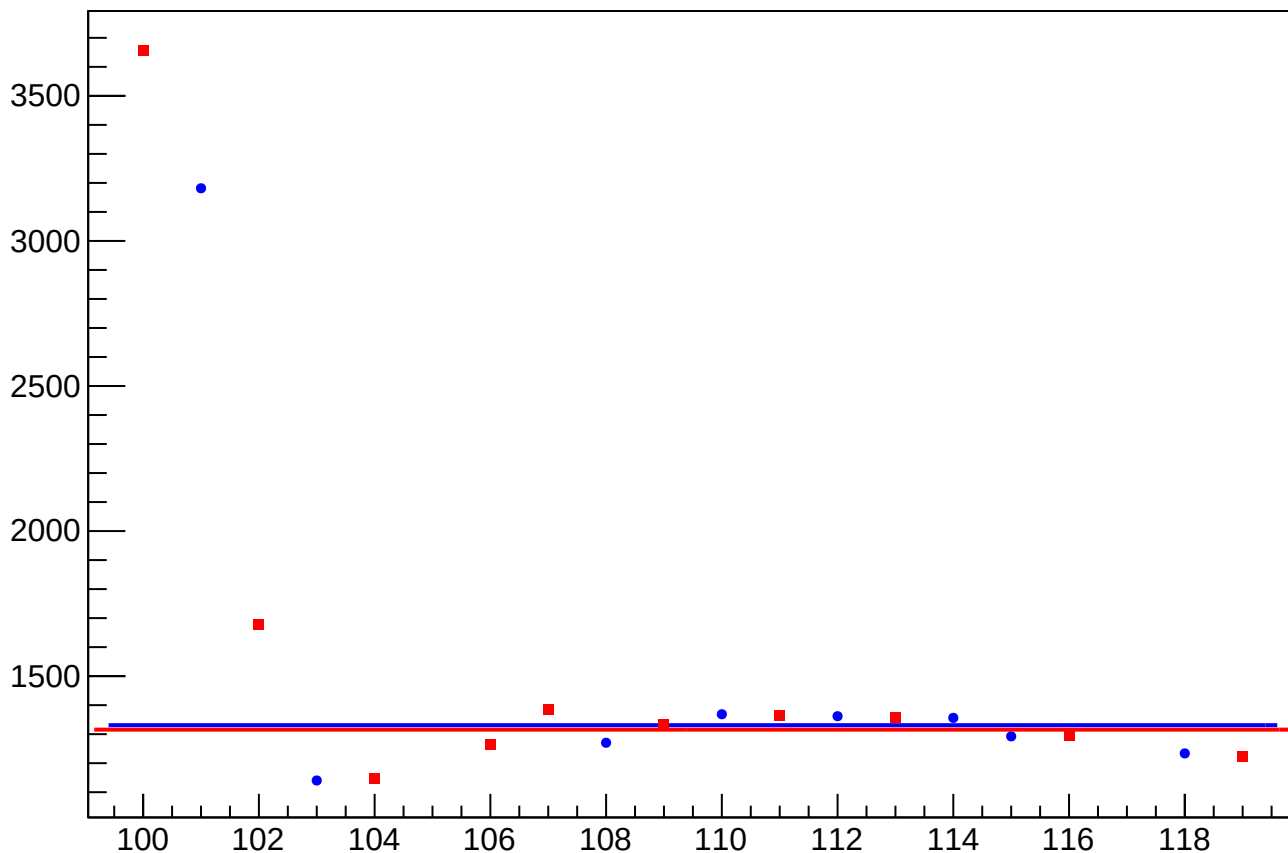
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -193.051 $\pm$ 504.019  $\chi^2$ /NDF: 15.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1331.009+/-0.538  $\chi^2/\text{NDF}$ : 486011.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1315.611+/-0.476  $\chi^2/\text{NDF}$ : 138635.7/9

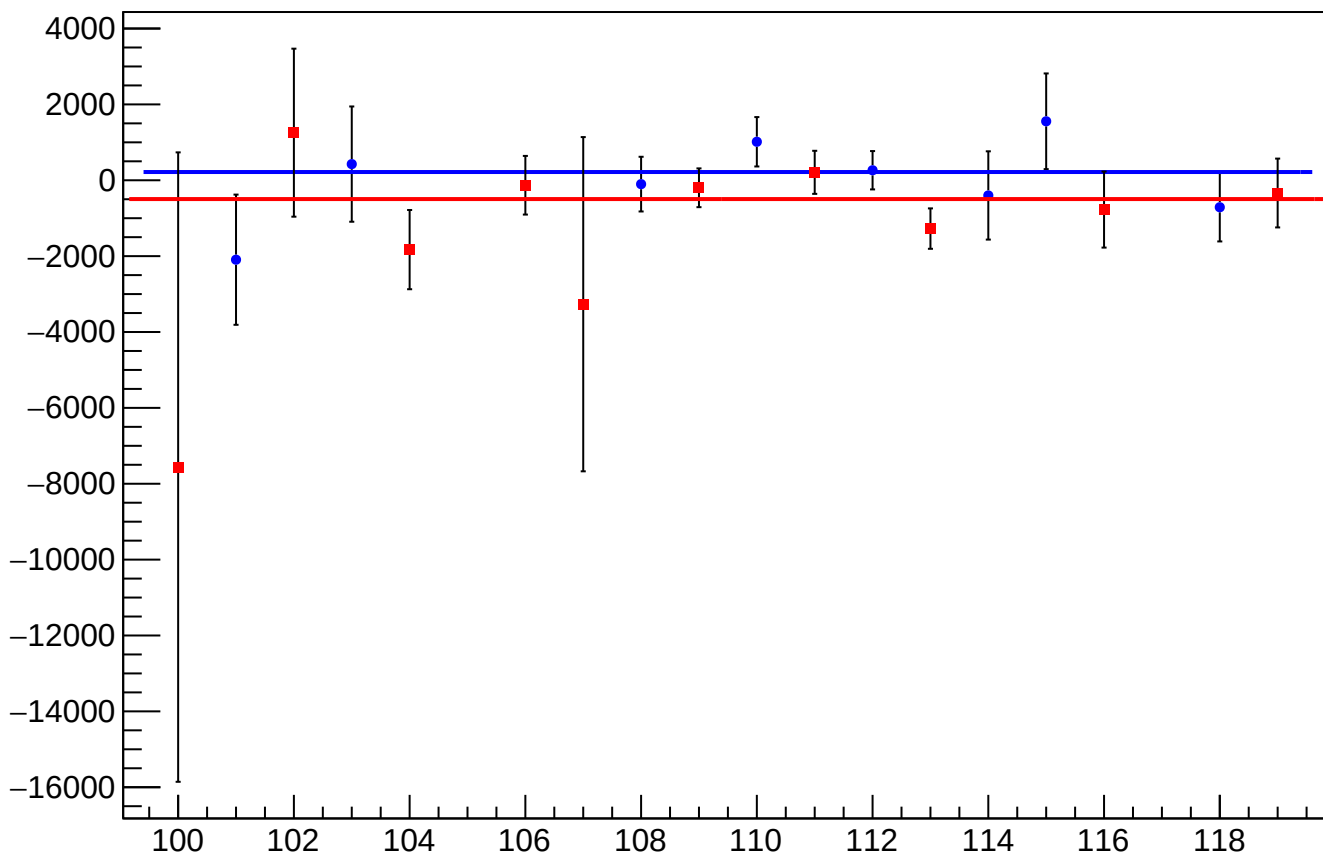
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1322.370+/-0.356  $\chi^2/\text{NDF}$ : 625107.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_correction\_mean vs Slug



Right In: 217.358 $\pm$ 294.011  $\chi^2$ /NDF: 6.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -495.406 $\pm$ 253.769  $\chi^2$ /NDF: 7.7/9

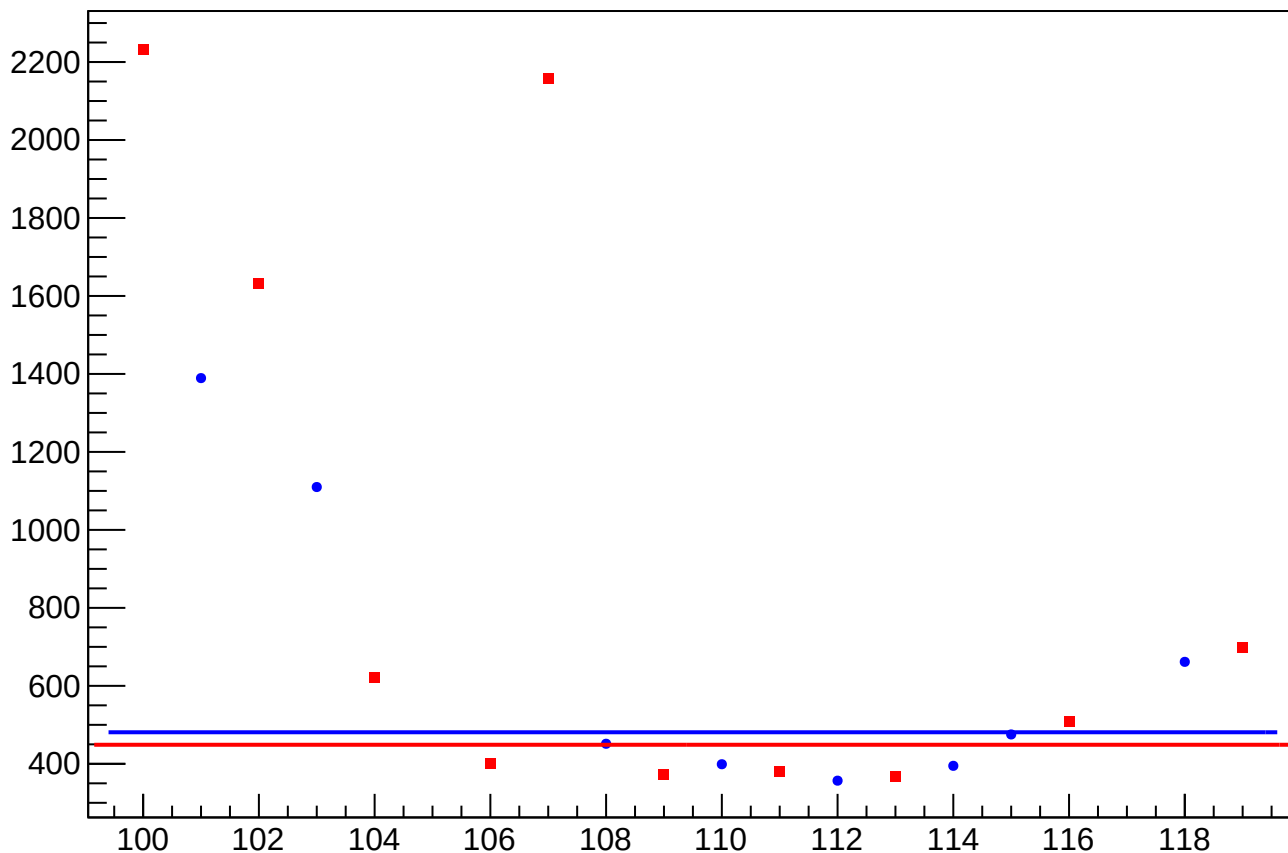
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -191.106 $\pm$ 192.107  $\chi^2$ /NDF: 17.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_correction\_rms vs Slug



Right In: 480.949+/-0.208  $\chi^2/\text{NDF}$ : 1150034.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 448.890+/-0.179  $\chi^2/\text{NDF}$ : 1307299.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

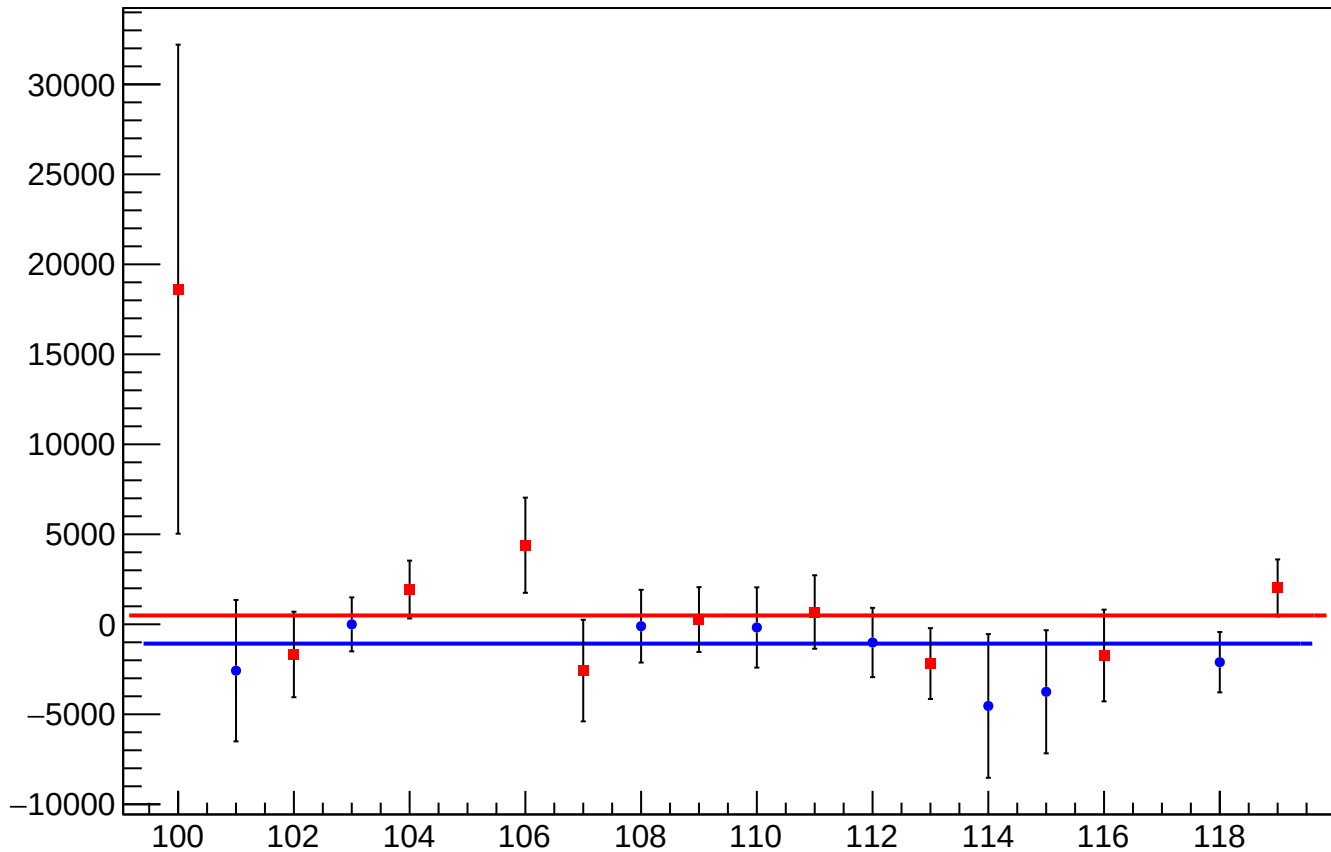
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 462.577+/-0.136  $\chi^2/\text{NDF}$ : 2470961.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -1073.568 $\pm$ 760.725  $\chi^2/\text{NDF}$ : 2.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 492.259 $\pm$ 674.299  $\chi^2/\text{NDF}$ : 10.3/9

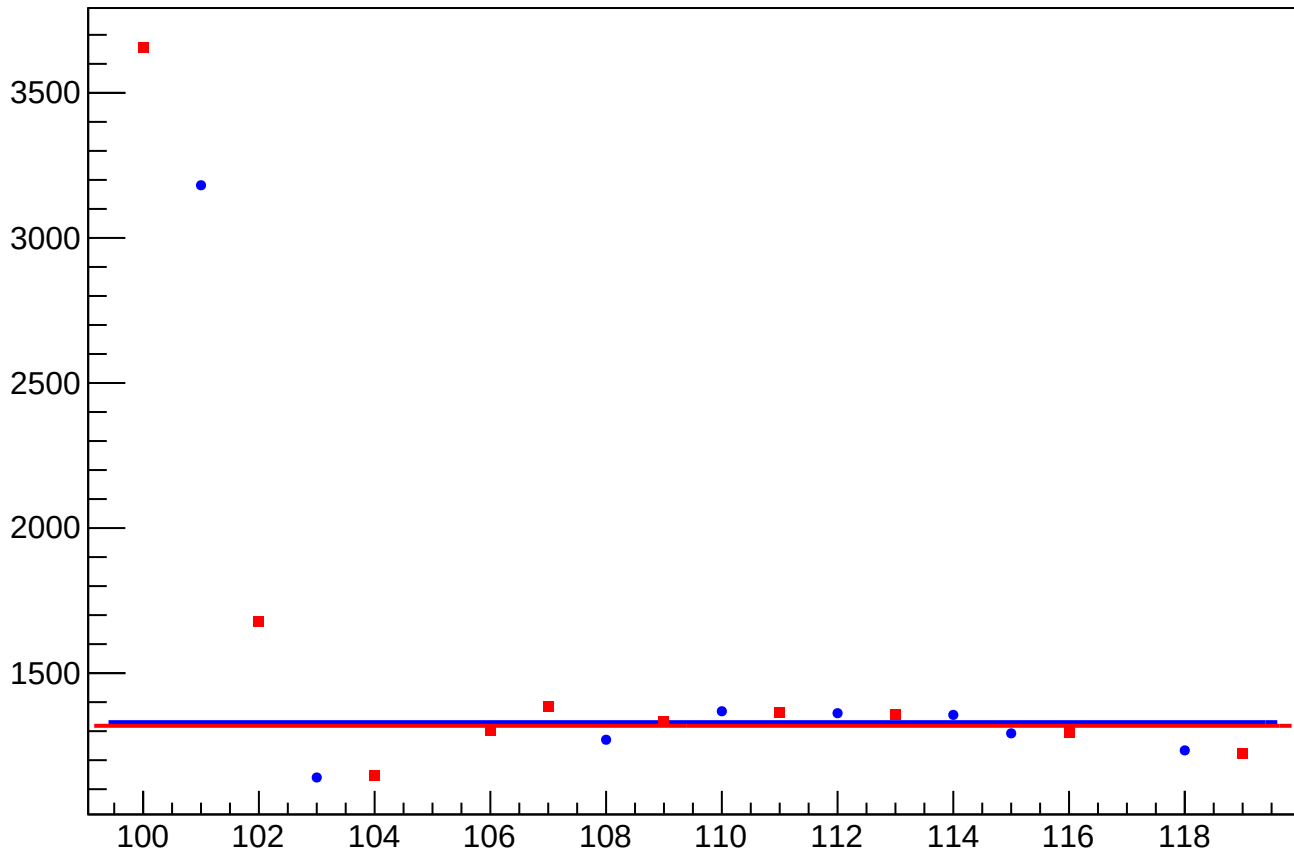
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -196.692 $\pm$ 504.603  $\chi^2/\text{NDF}$ : 15.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1331.009+/-0.538  $\chi^2/\text{NDF}$ : 486013.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1318.481+/-0.477  $\chi^2/\text{NDF}$ : 137799.1/9

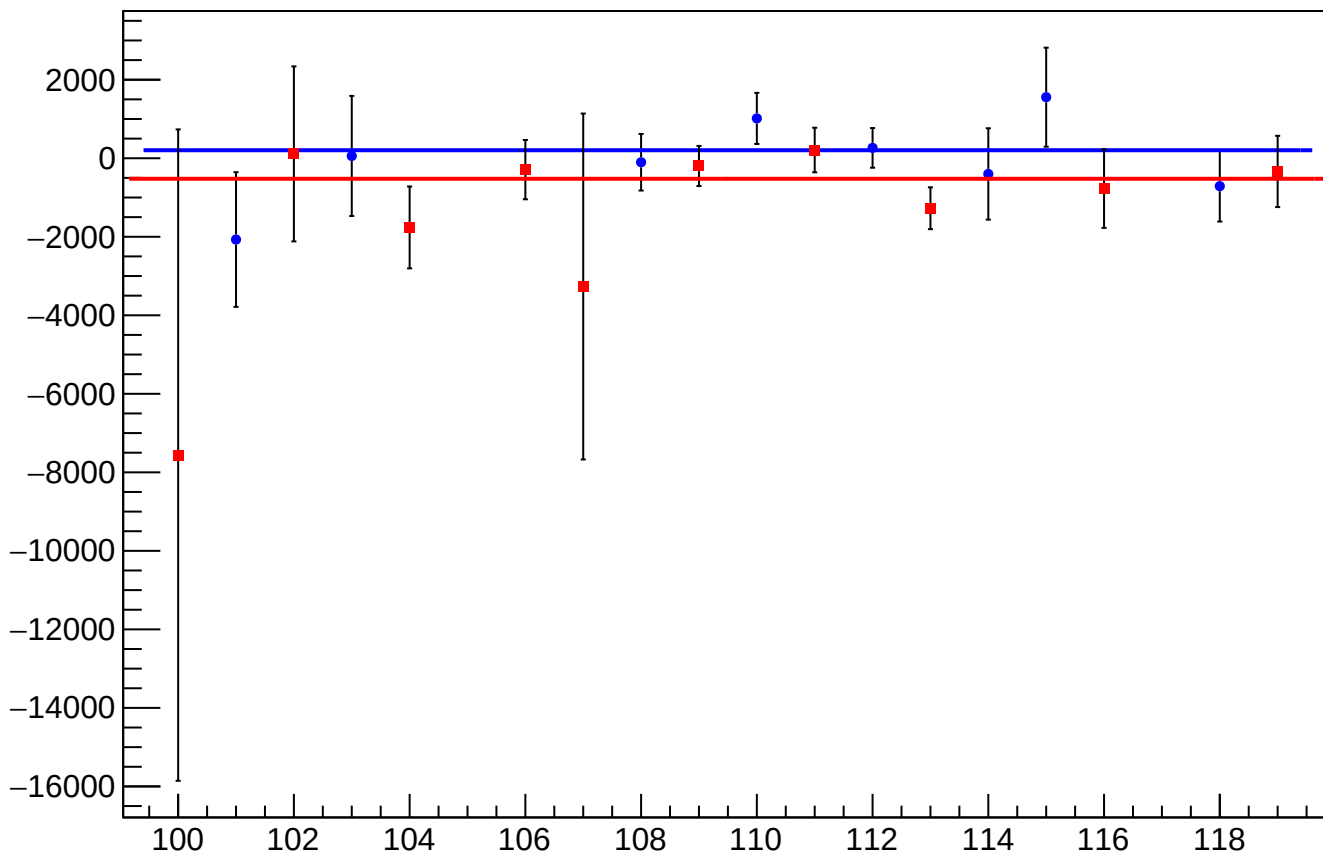
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1323.993+/-0.357  $\chi^2/\text{NDF}$ : 624116.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_cor\_correction\_mean vs Slug



Right In: 204.307+/-294.088  $\chi^2/\text{NDF}$ : 6.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -522.569+/-253.099  $\chi^2/\text{NDF}$ : 6.9/9

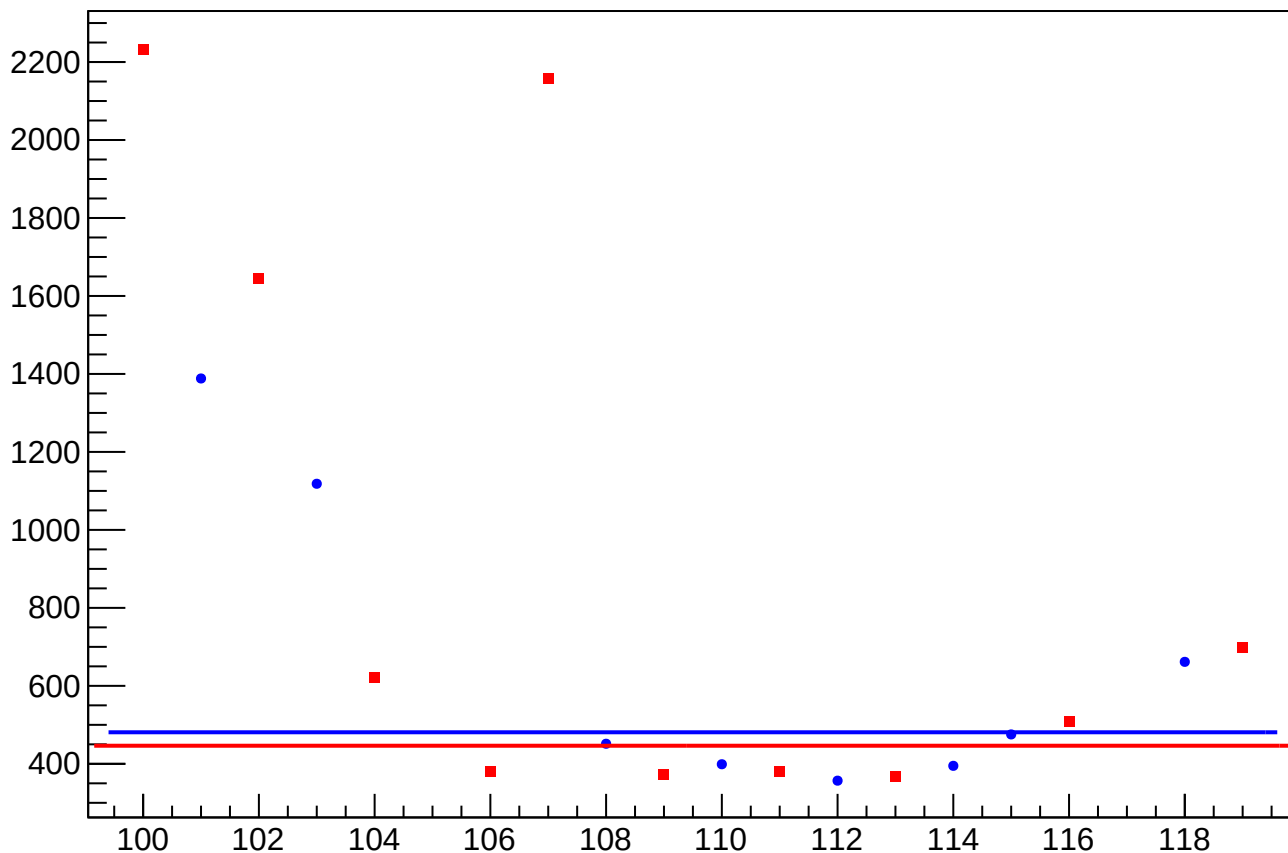
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -213.276+/-191.837  $\chi^2/\text{NDF}$ : 16.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_cor\_correction\_rms vs Slug



Right In: 480.925+/-0.208  $\chi^2/\text{NDF}$ : 1153672.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 446.427+/-0.179  $\chi^2/\text{NDF}$ : 1322258.6/9

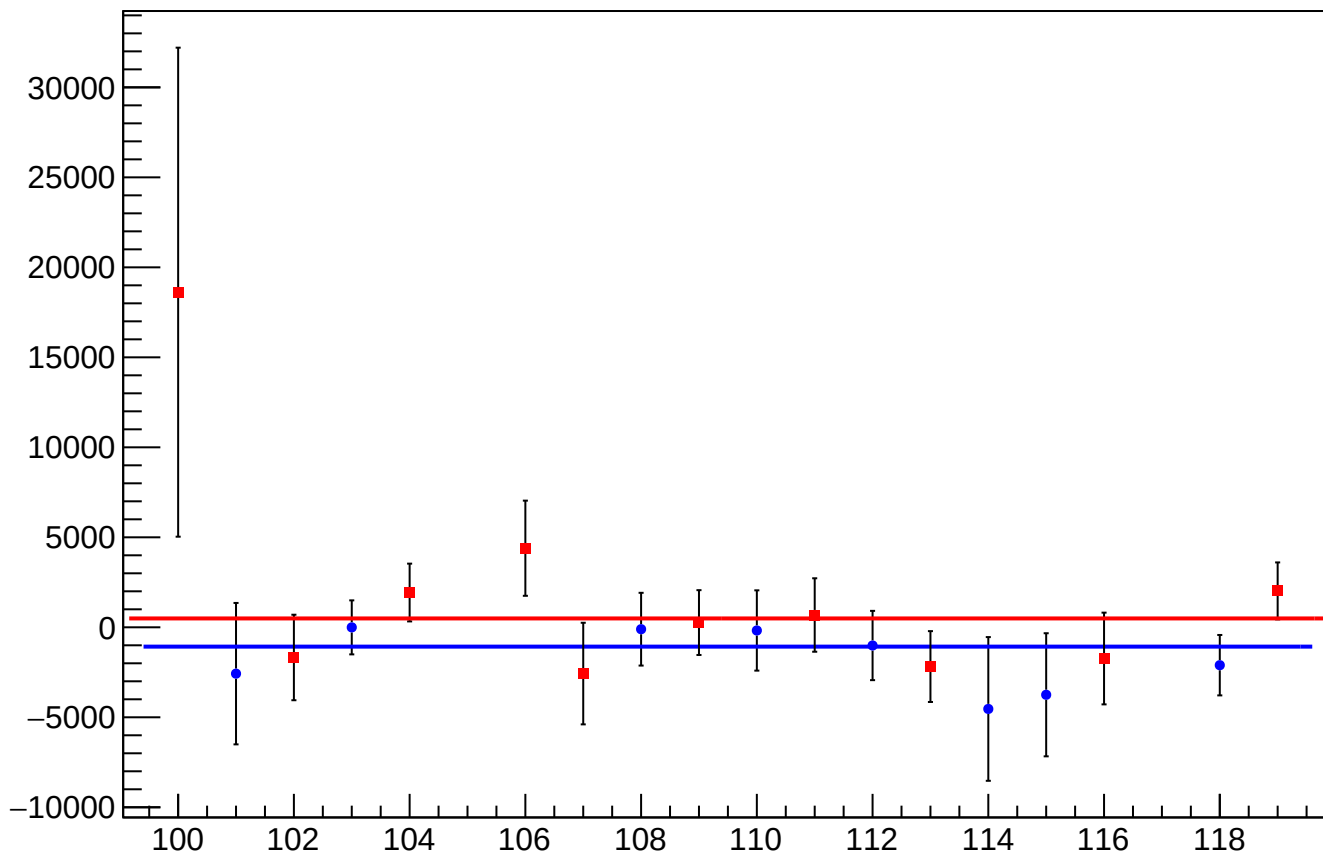
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 461.106+/-0.136  $\chi^2/\text{NDF}$ : 2491741.2/17

- 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: -1073.568+/-760.725  $\chi^2/\text{NDF}$ : 2.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 492.259+/-674.299  $\chi^2/\text{NDF}$ : 10.3/9

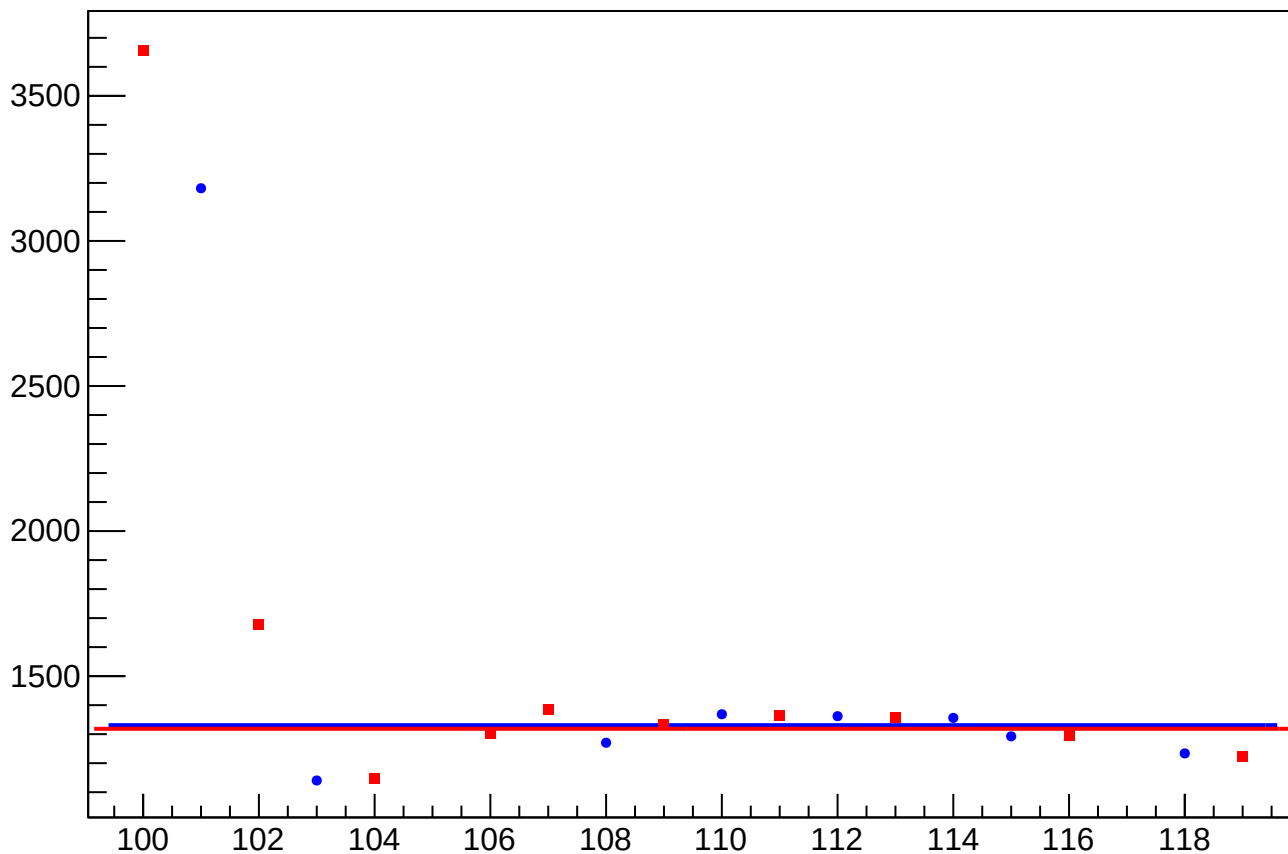
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -196.692+/-504.603  $\chi^2/\text{NDF}$ : 15.5/17

- 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: 1331.009+/-0.538  $\chi^2/\text{NDF}$ : 486013.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1318.481+/-0.477  $\chi^2/\text{NDF}$ : 137799.1/9

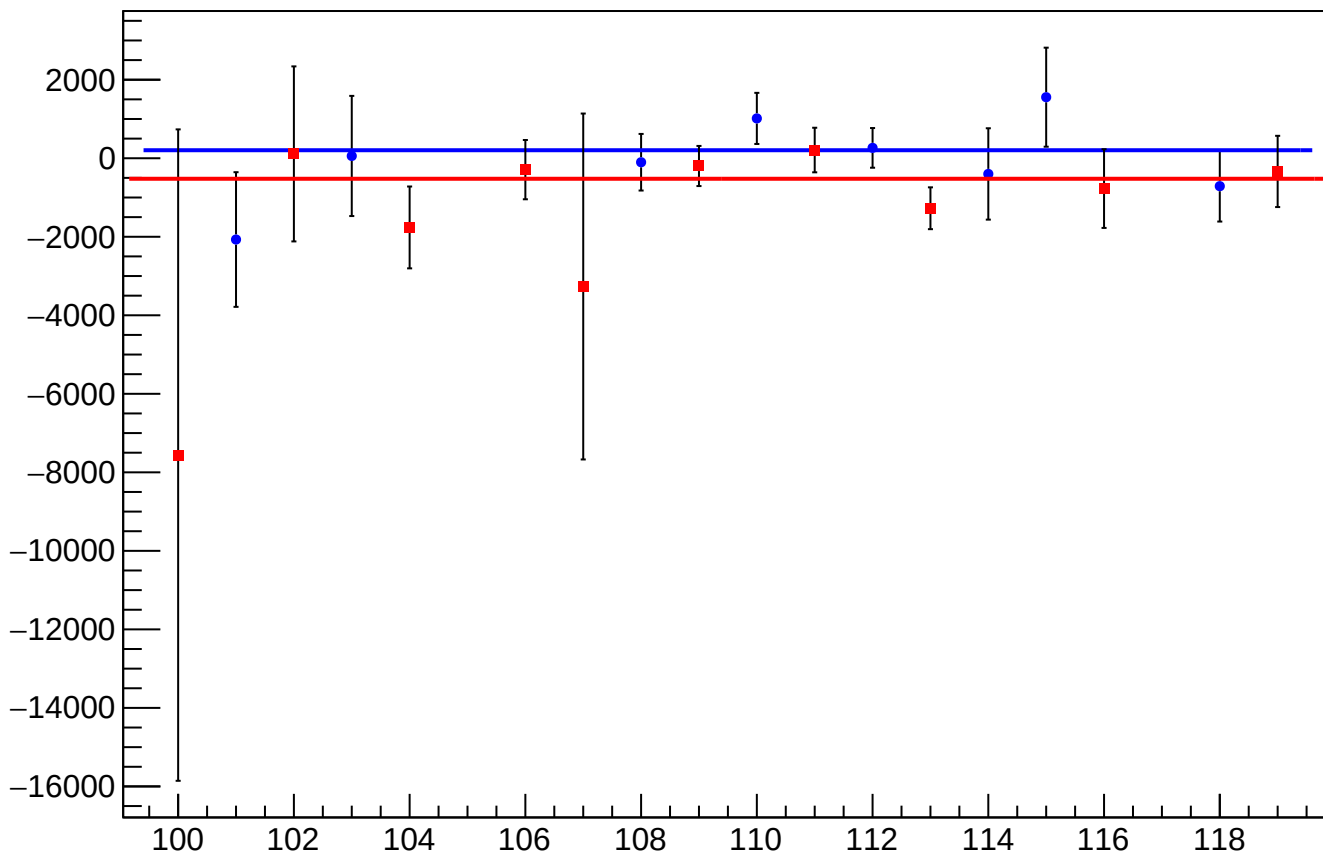
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1323.993+/-0.357  $\chi^2/\text{NDF}$ : 624116.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 204.307+/-294.088  $\chi^2/\text{NDF}$ : 6.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -522.569+/-253.099  $\chi^2/\text{NDF}$ : 6.9/9

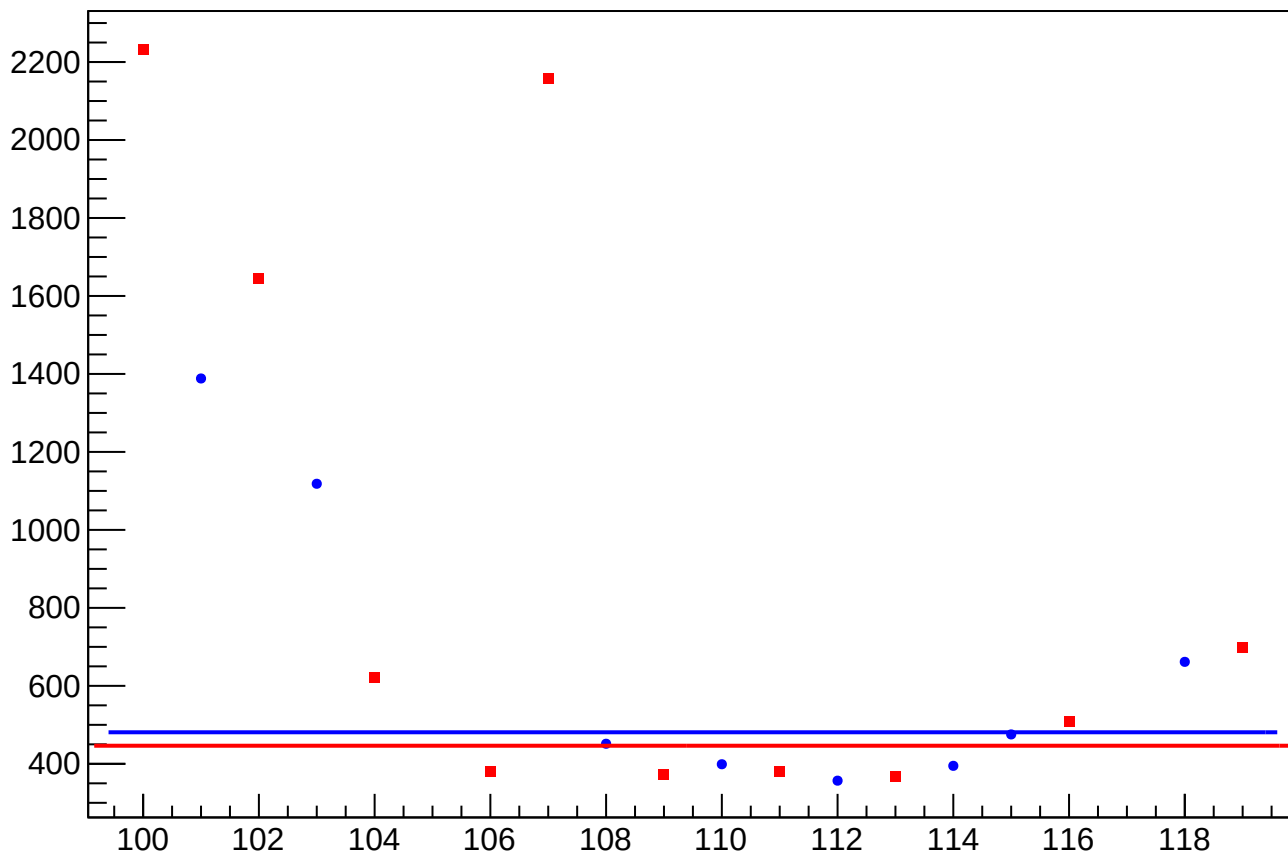
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -213.276+/-191.837  $\chi^2/\text{NDF}$ : 16.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 480.925+/-0.208  $\chi^2/\text{NDF}$ : 1153672.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 446.427+/-0.179  $\chi^2/\text{NDF}$ : 1322258.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

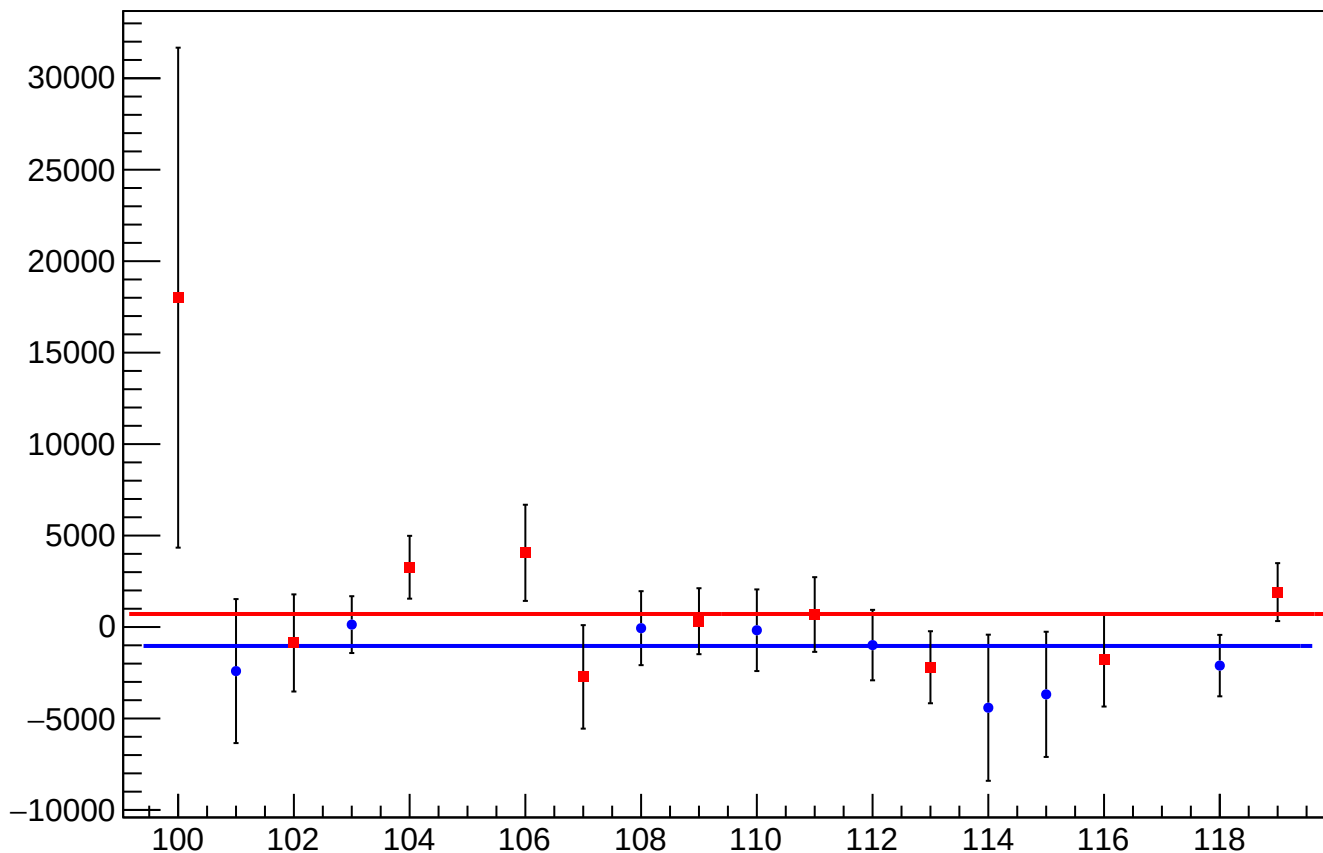
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 461.106+/-0.136  $\chi^2/\text{NDF}$ : 2491741.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -1034.889+/-767.690  $\chi^2/\text{NDF}$ : 2.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 712.913+/-687.821  $\chi^2/\text{NDF}$ : 11.0/9

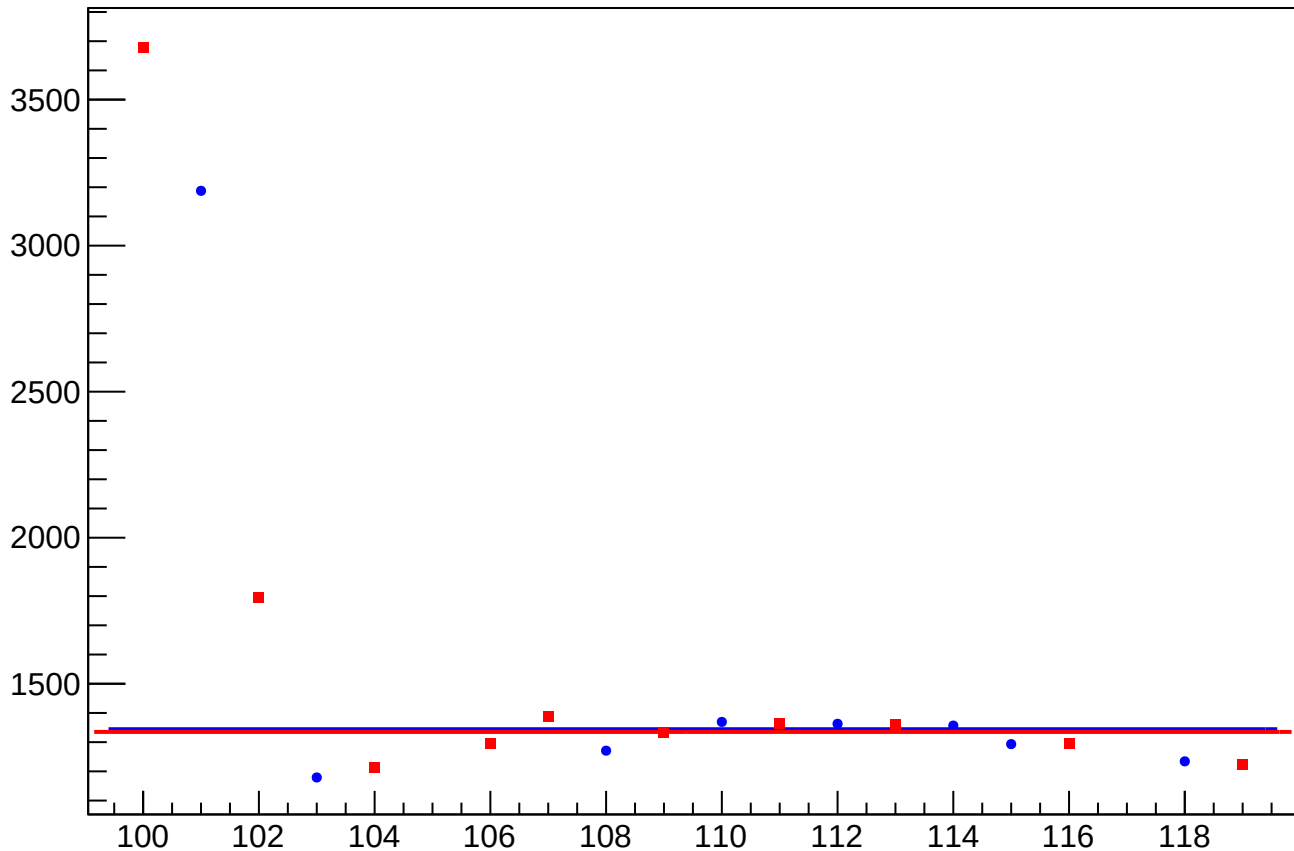
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -65.367+/-512.281  $\chi^2/\text{NDF}$ : 16.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1344.263+/-0.543  $\chi^2/\text{NDF}$ : 473389.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1335.059+/-0.486  $\chi^2/\text{NDF}$ : 141156.1/9

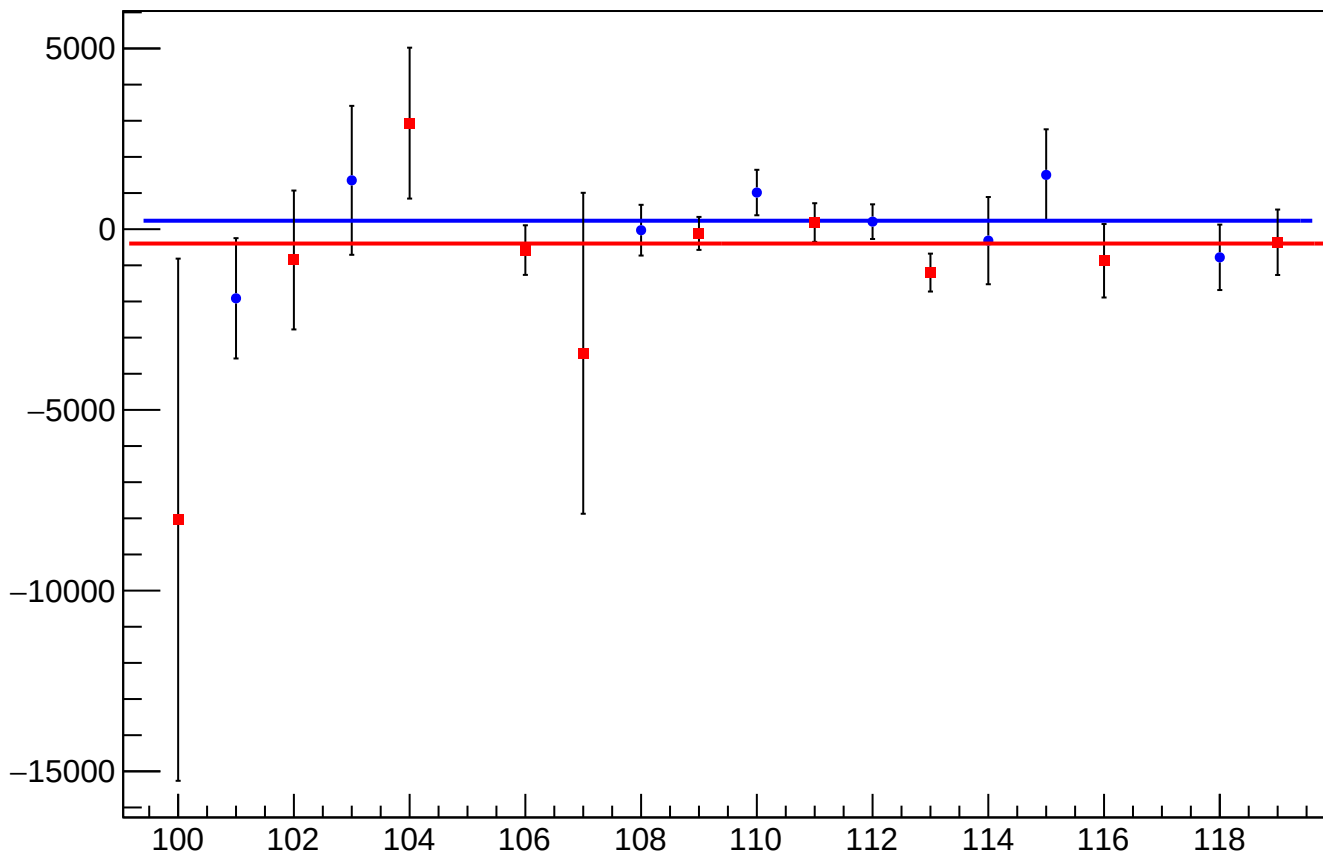
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1339.158+/-0.362  $\chi^2/\text{NDF}$ : 614705.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_correction\_mean vs Slug



Right In: 234.126+/-288.247  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -397.178+/-243.806  $\chi^2/\text{NDF}$ : 8.4/9

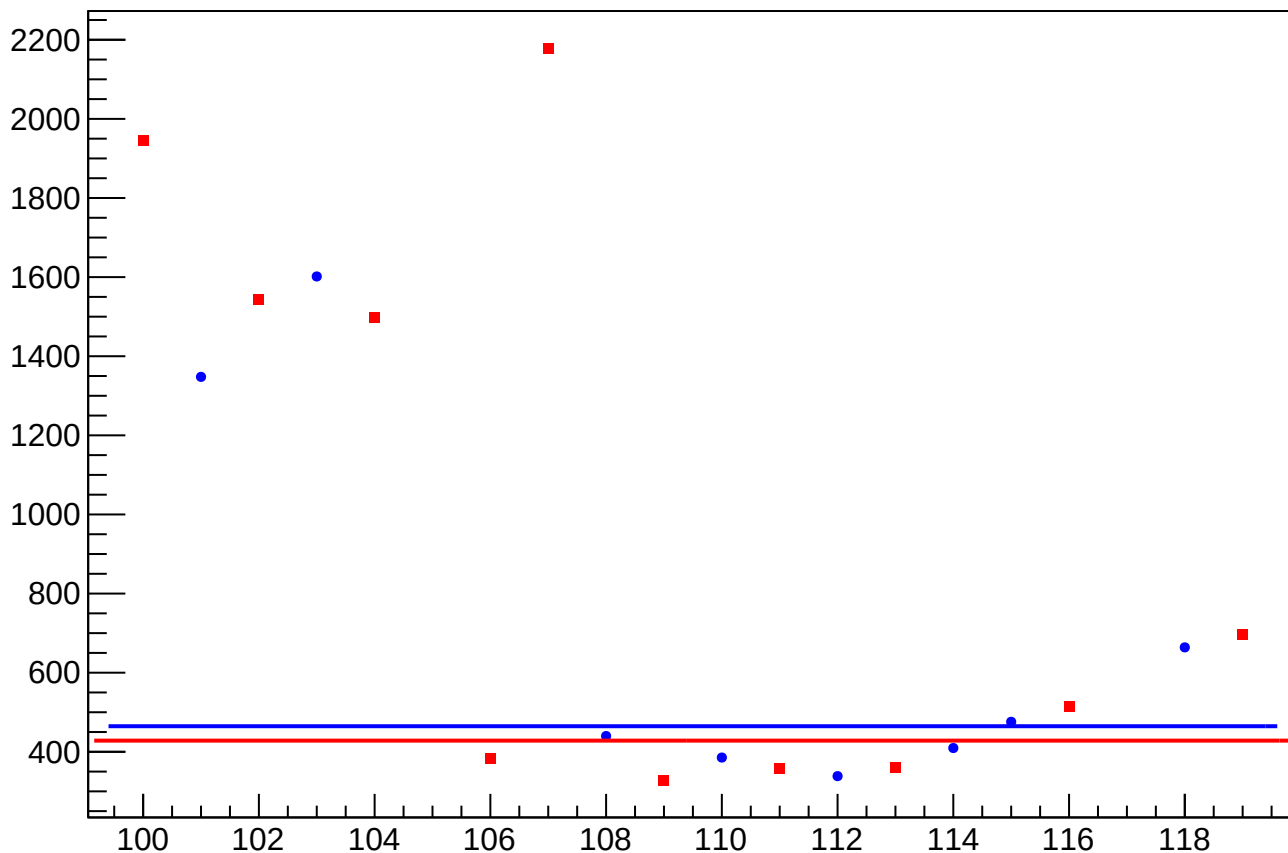
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -133.892+/-186.149  $\chi^2/\text{NDF}$ : 17.3/17

- 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: 464.680 $\pm$ 0.204  $\chi^2$ /NDF: 1445937.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 428.276 $\pm$ 0.172  $\chi^2$ /NDF: 1964489.5/9

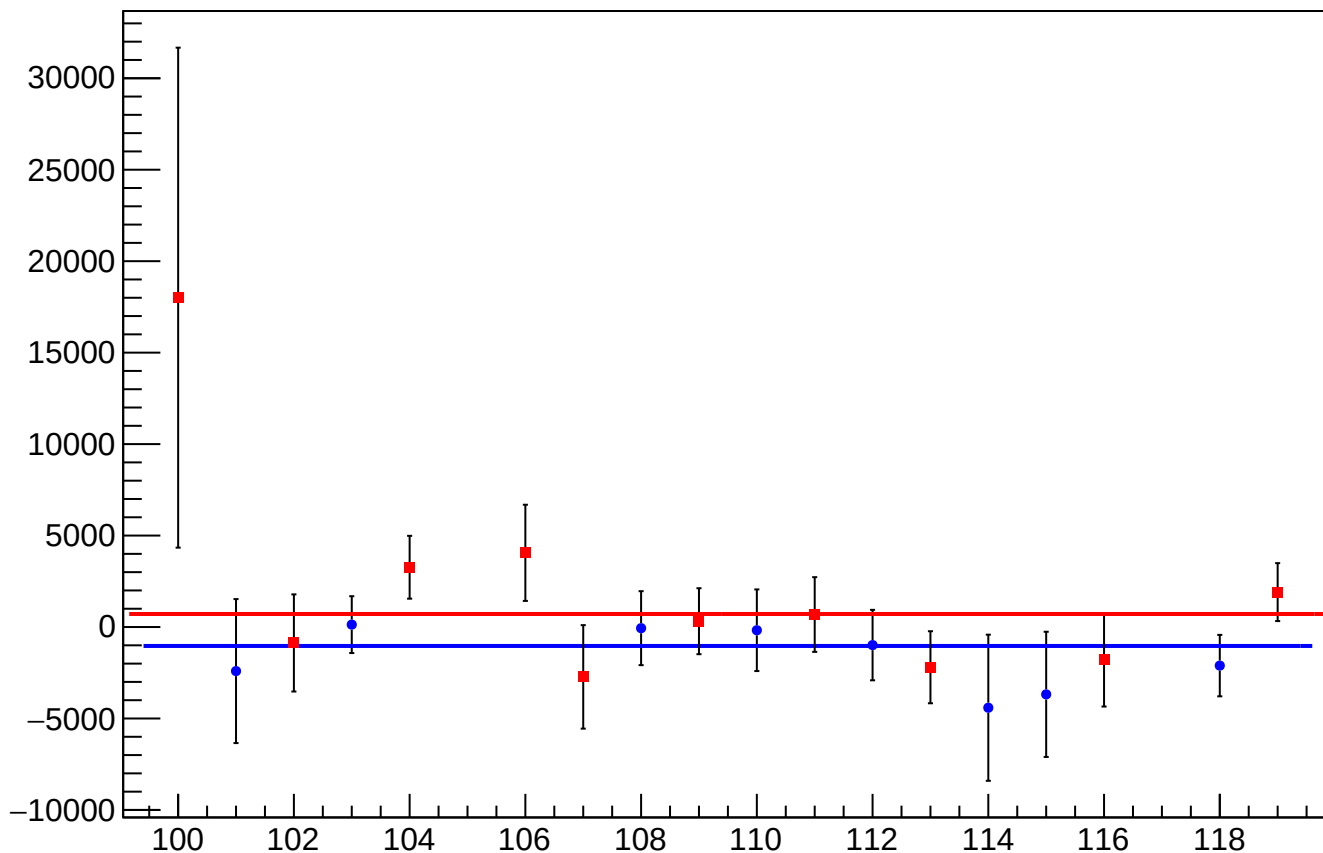
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 443.458 $\pm$ 0.132  $\chi^2$ /NDF: 3429023.8/17

- 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: -1034.887+/-767.690  $\chi^2/\text{NDF}$ : 2.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 712.914+/-687.821  $\chi^2/\text{NDF}$ : 11.0/9

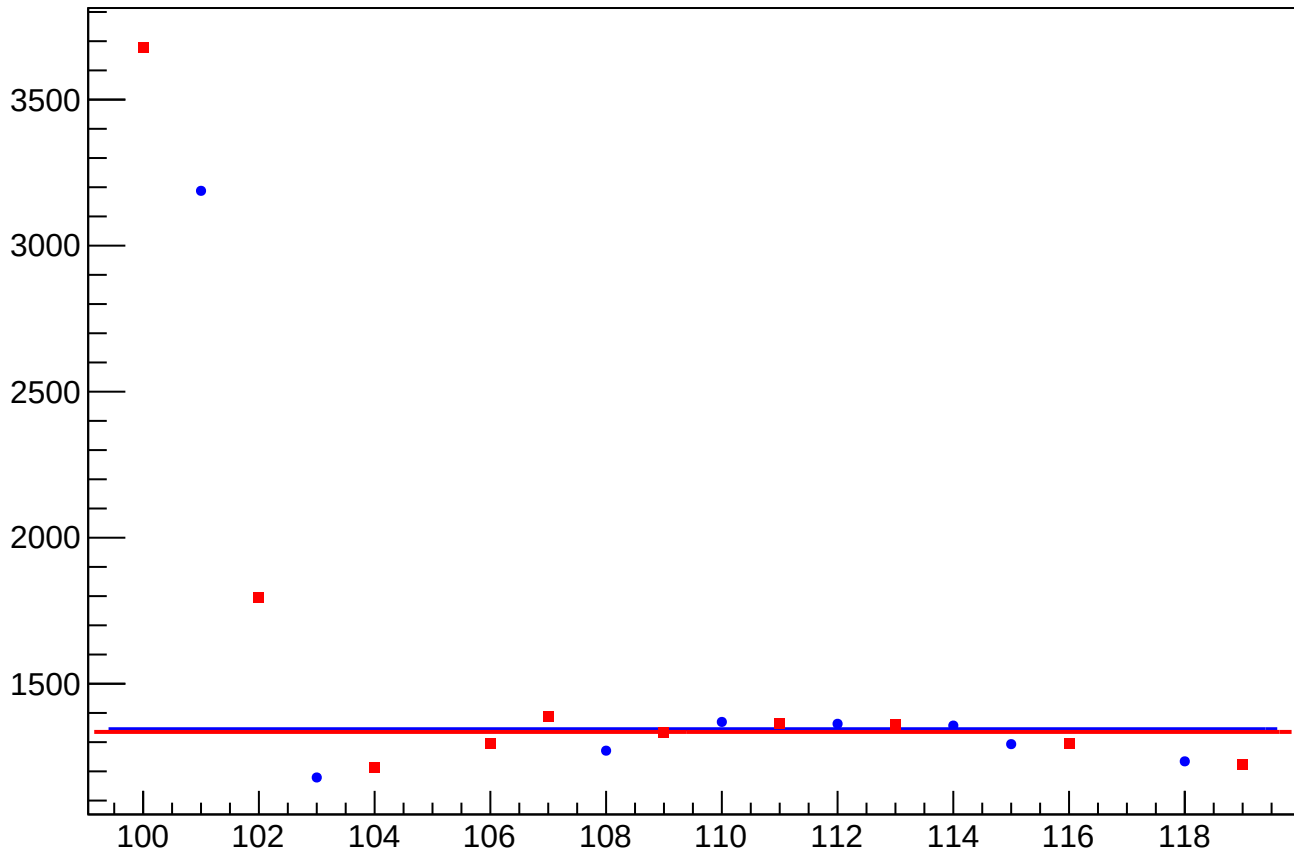
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -65.366+/-512.281  $\chi^2/\text{NDF}$ : 16.7/17

- 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: 1344.263+/-0.543  $\chi^2/\text{NDF}$ : 473389.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1335.059+/-0.486  $\chi^2/\text{NDF}$ : 141156.2/9

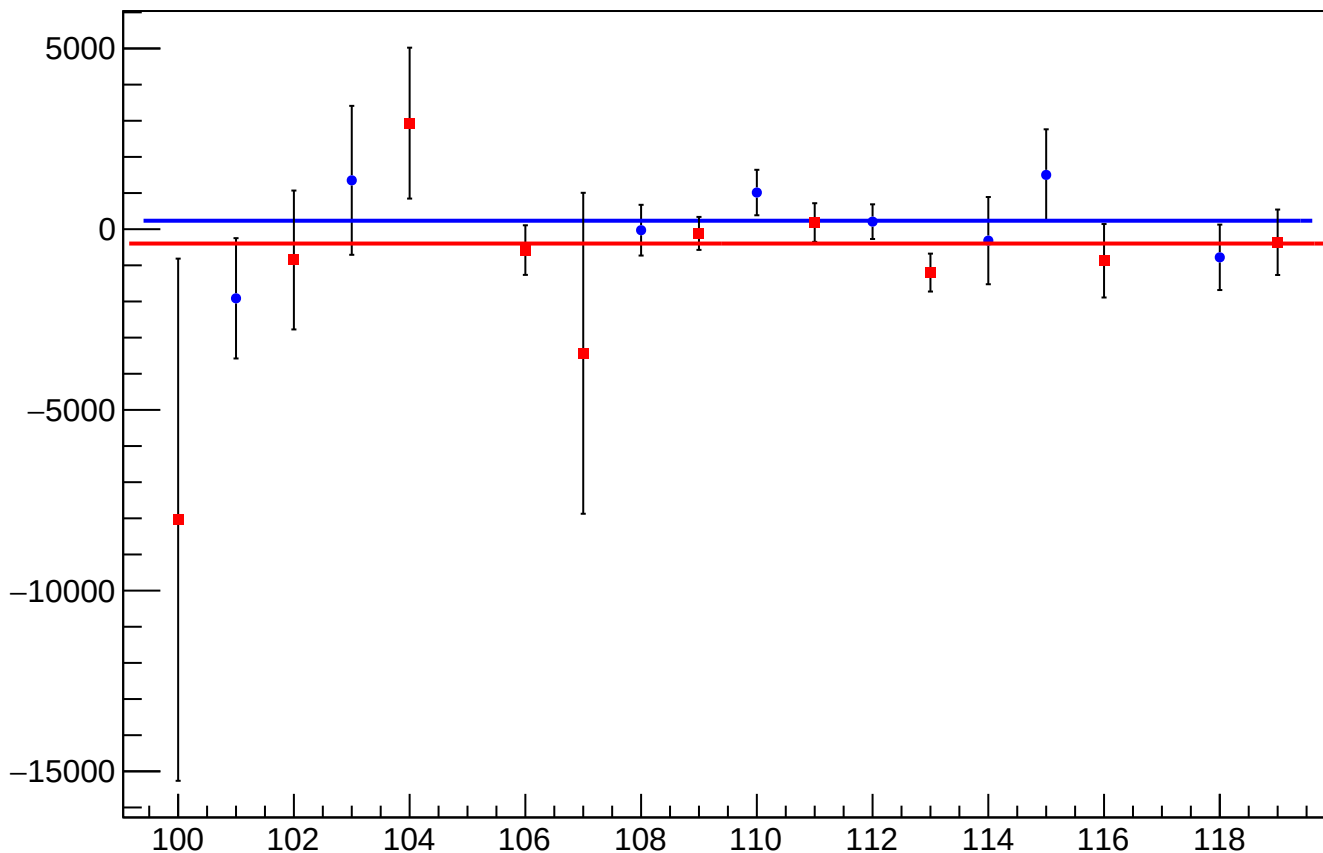
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1339.158+/-0.362  $\chi^2/\text{NDF}$ : 614705.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 234.126+/-288.246  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -397.177+/-243.806  $\chi^2/\text{NDF}$ : 8.4/9

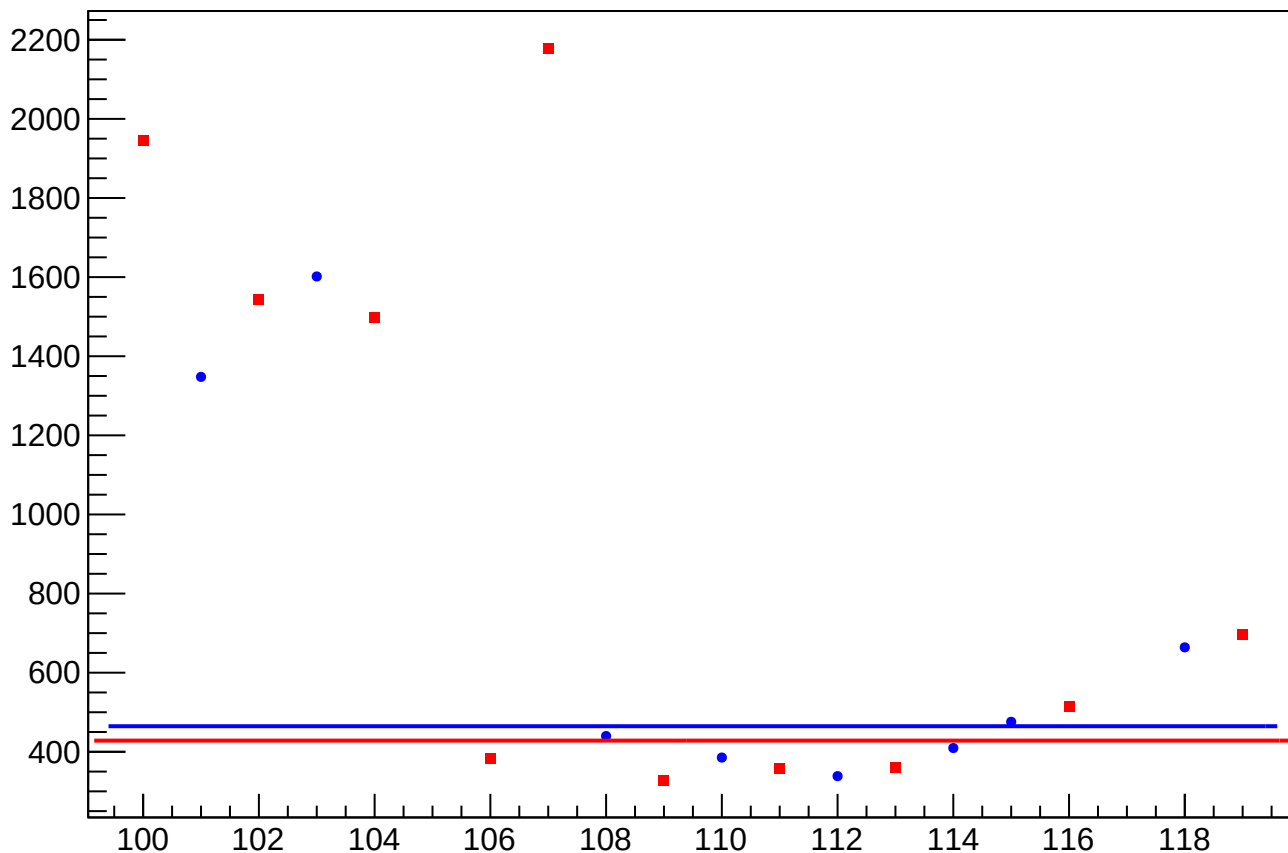
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -133.890+/-186.148  $\chi^2/\text{NDF}$ : 17.3/17

- 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: 464.677 $\pm$ 0.204  $\chi^2$ /NDF: 1445943.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 428.274 $\pm$ 0.172  $\chi^2$ /NDF: 1964499.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

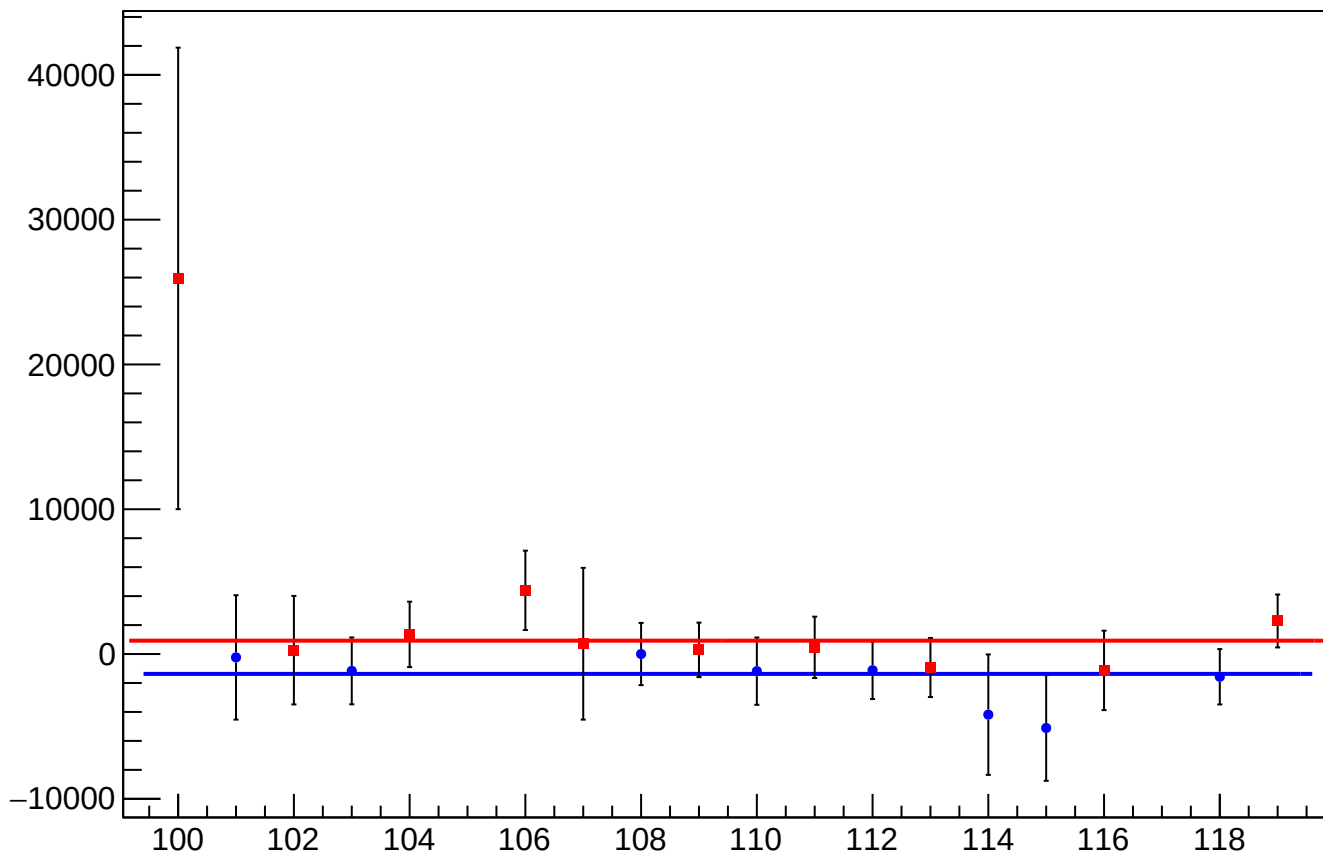
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 443.456 $\pm$ 0.132  $\chi^2$ /NDF: 3429038.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -1372.007 $\pm$ 876.328  $\chi^2$ /NDF: 2.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 922.444 $\pm$ 786.069  $\chi^2$ /NDF: 6.2/9

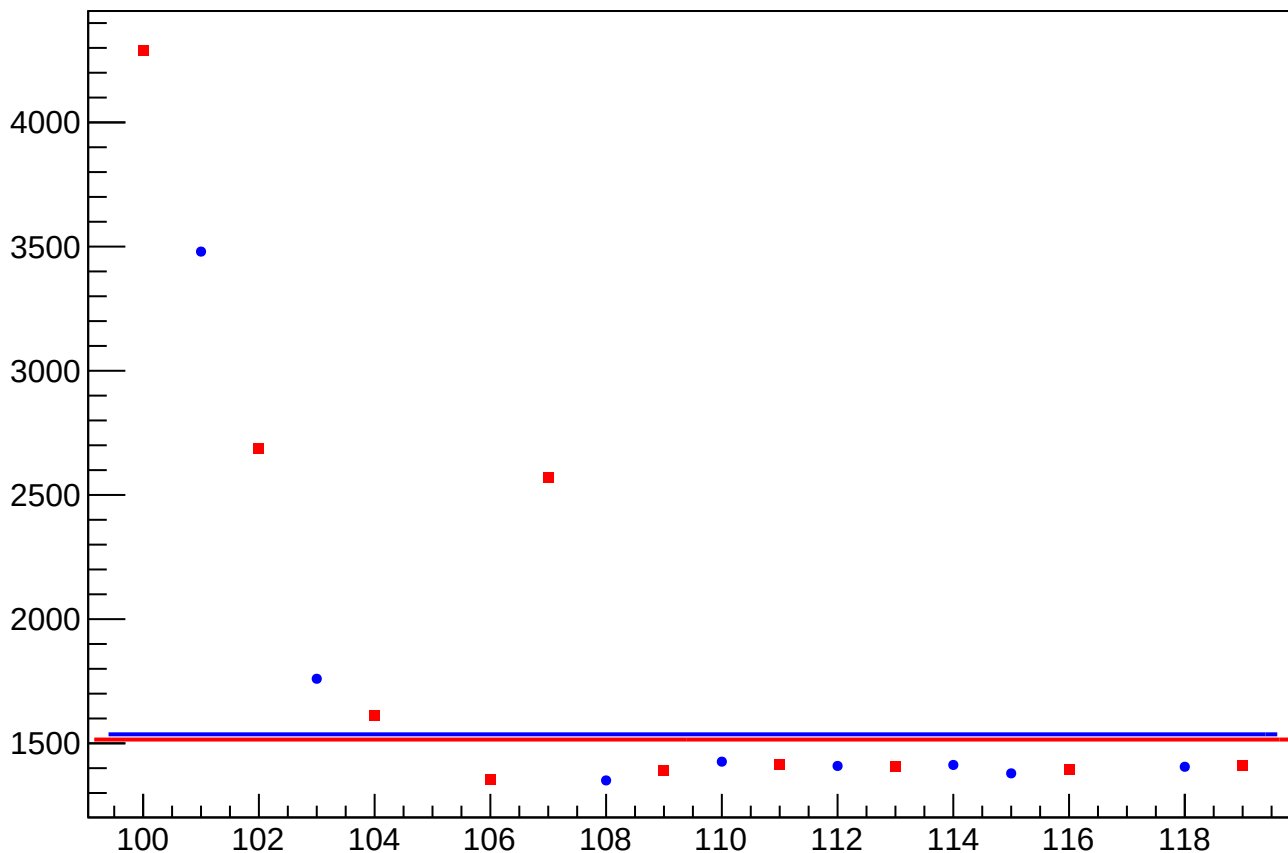
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -100.572 $\pm$ 585.152  $\chi^2$ /NDF: 12.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1536.228 $\pm$ 0.620  $\chi^2$ /NDF: 470629.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1515.224 $\pm$ 0.556  $\chi^2$ /NDF: 376520.8/9

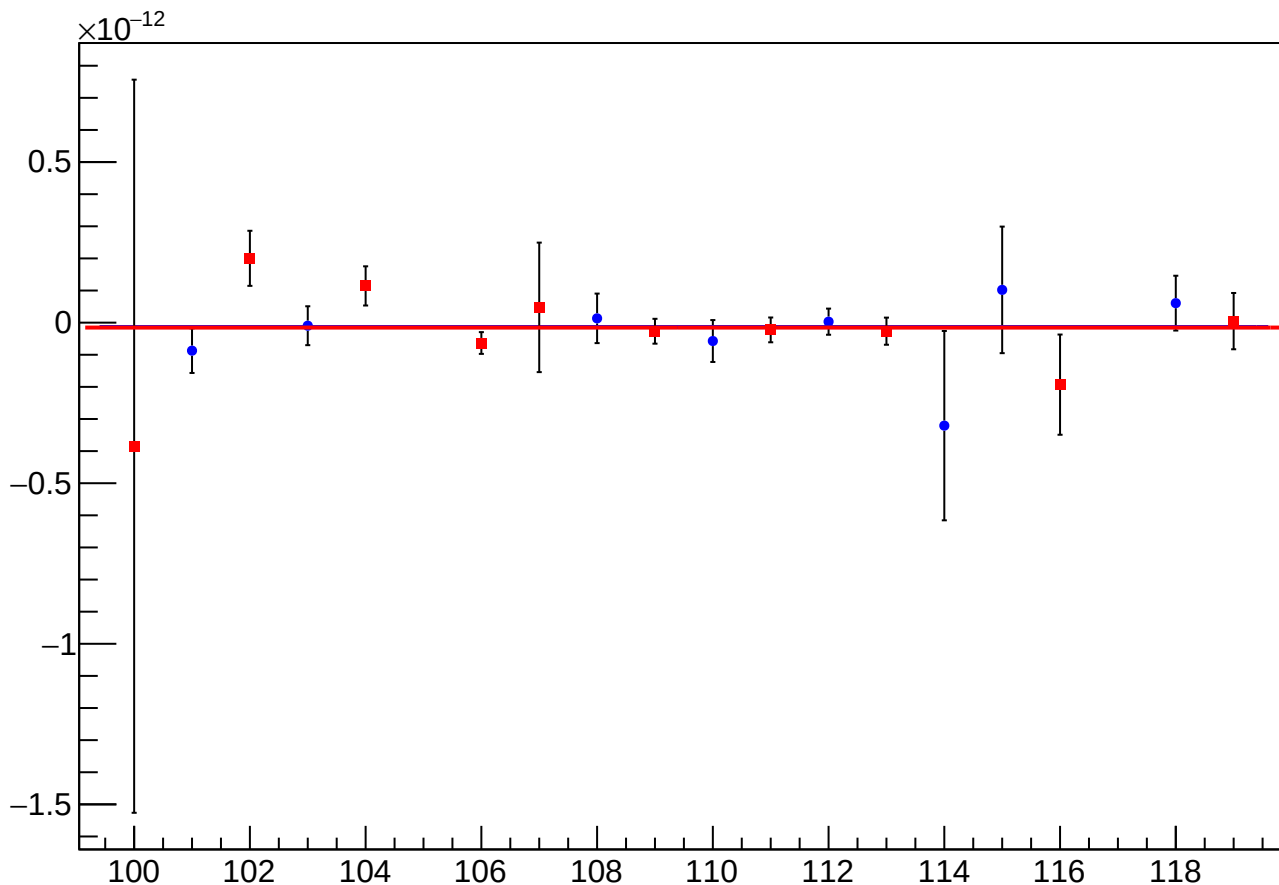
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1524.589 $\pm$ 0.414  $\chi^2$ /NDF: 847787.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.6/9

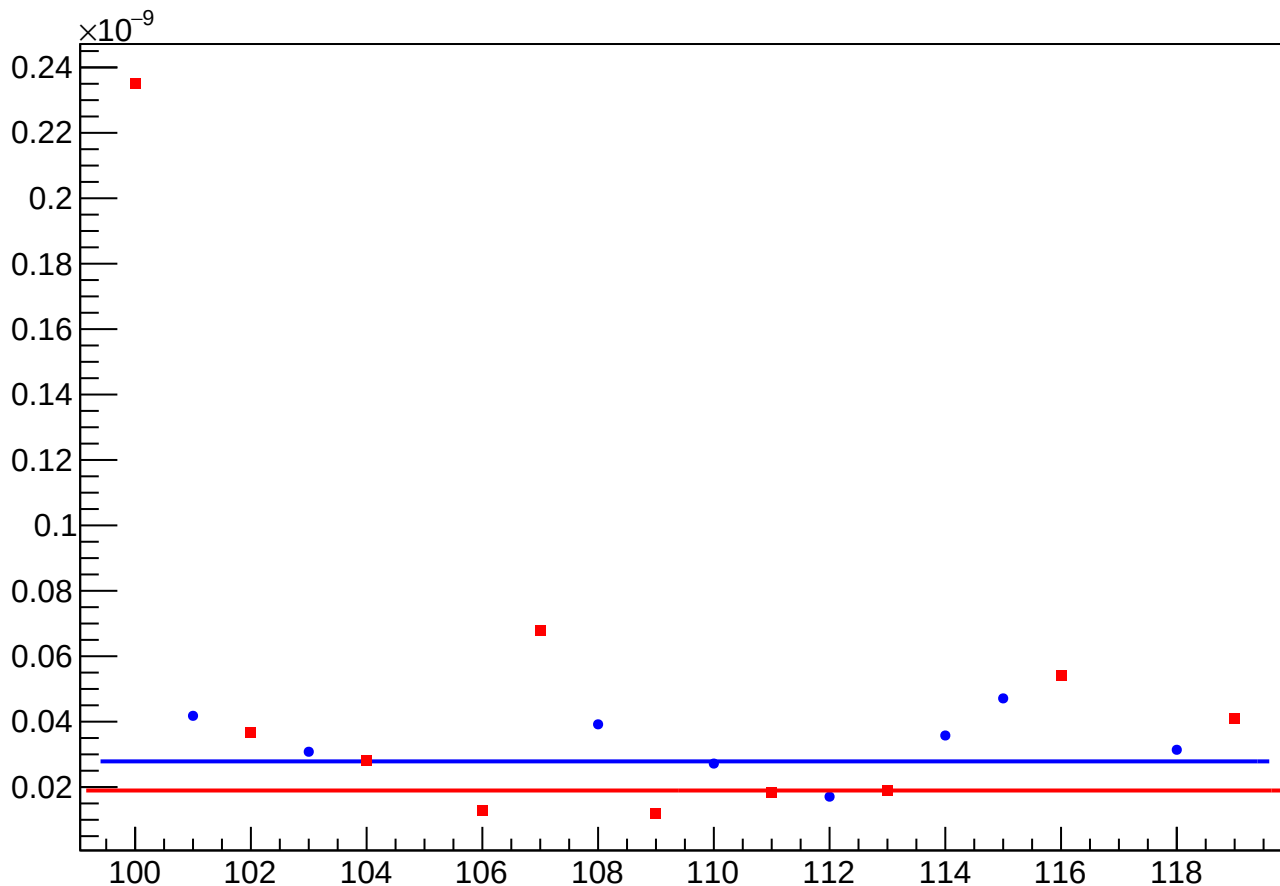
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.7/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 292980.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 683711.7/9

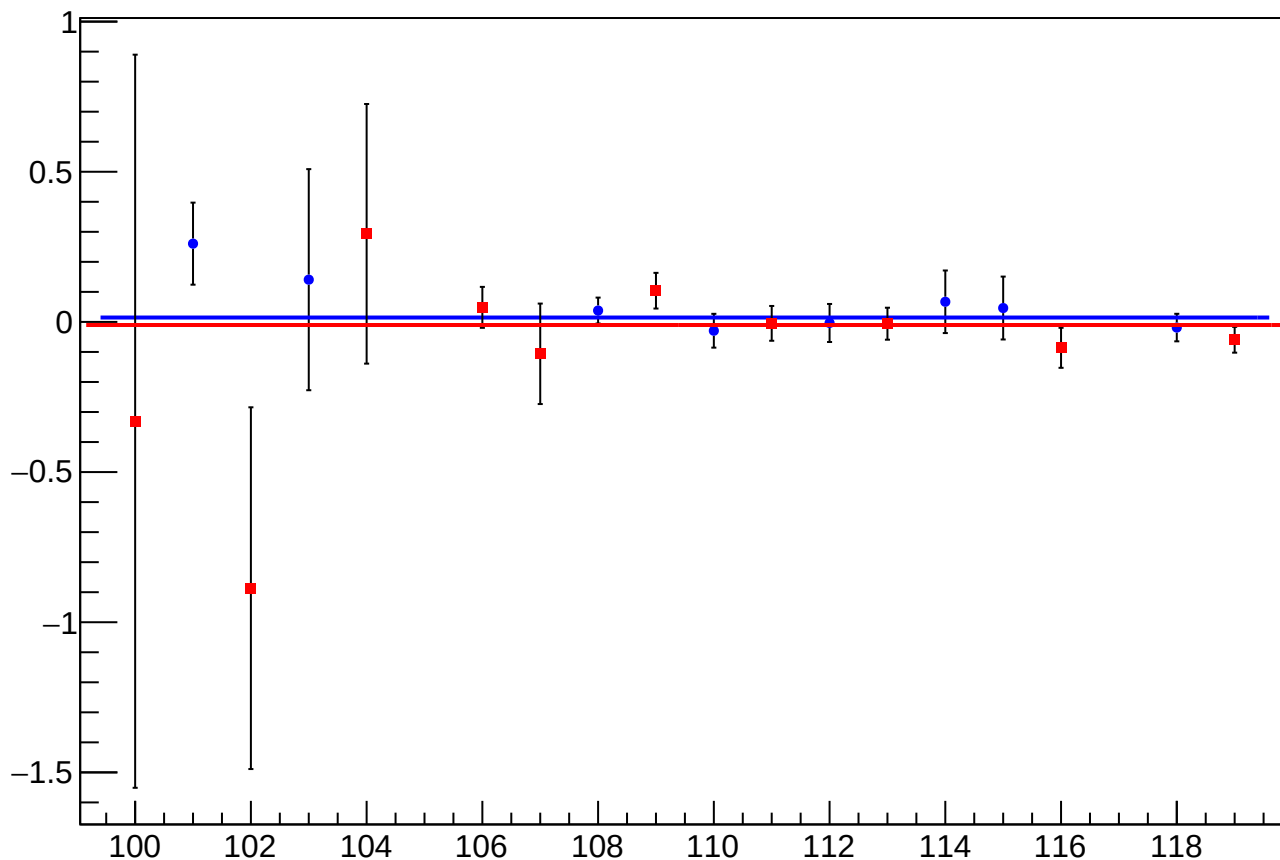
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1153181.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.015 $\pm$ 0.023  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.010 $\pm$ 0.023  $\chi^2$ /NDF: 10.1/9

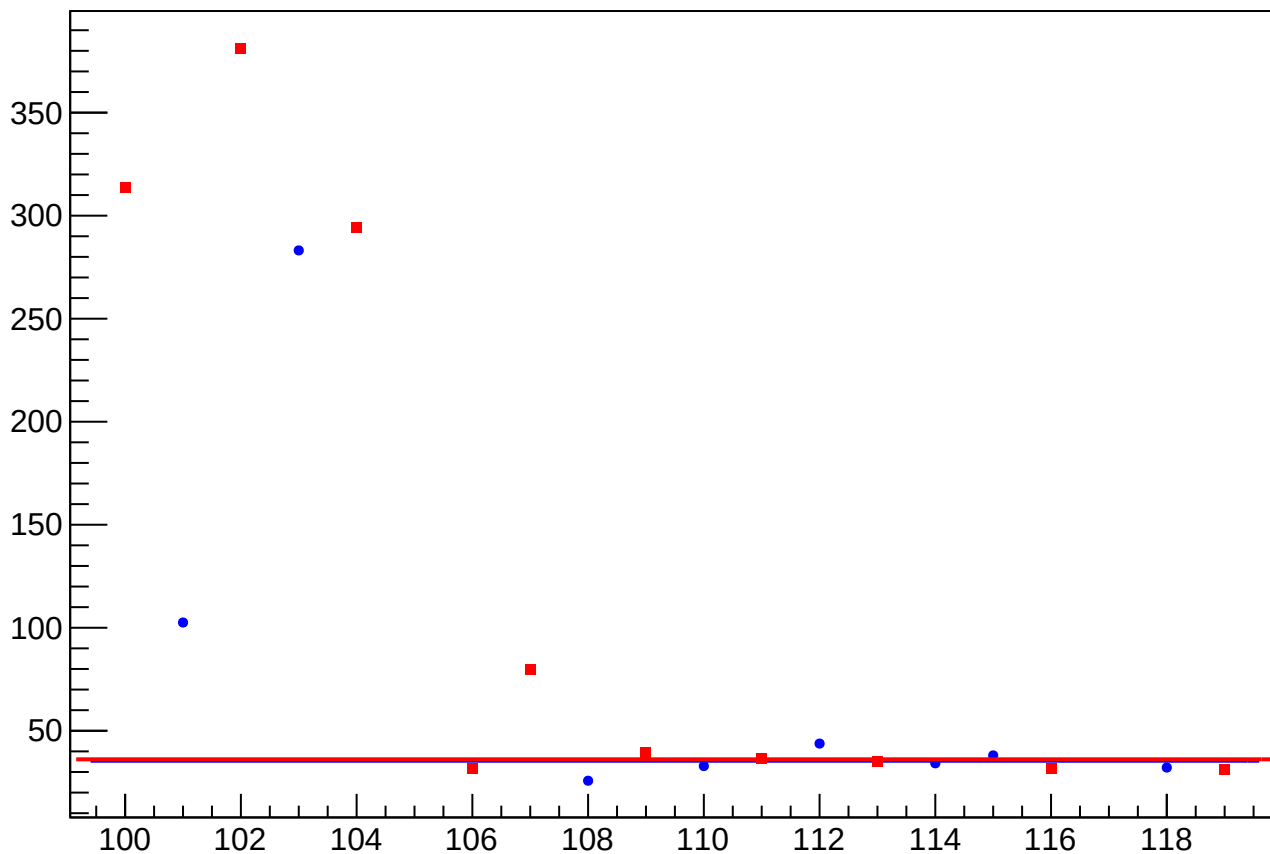
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.016  $\chi^2$ /NDF: 15.9/17

- 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: 35.468+/-0.017  $\chi^2/\text{NDF}$ : 1539779.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.153+/-0.016  $\chi^2/\text{NDF}$ : 1659955.7/9

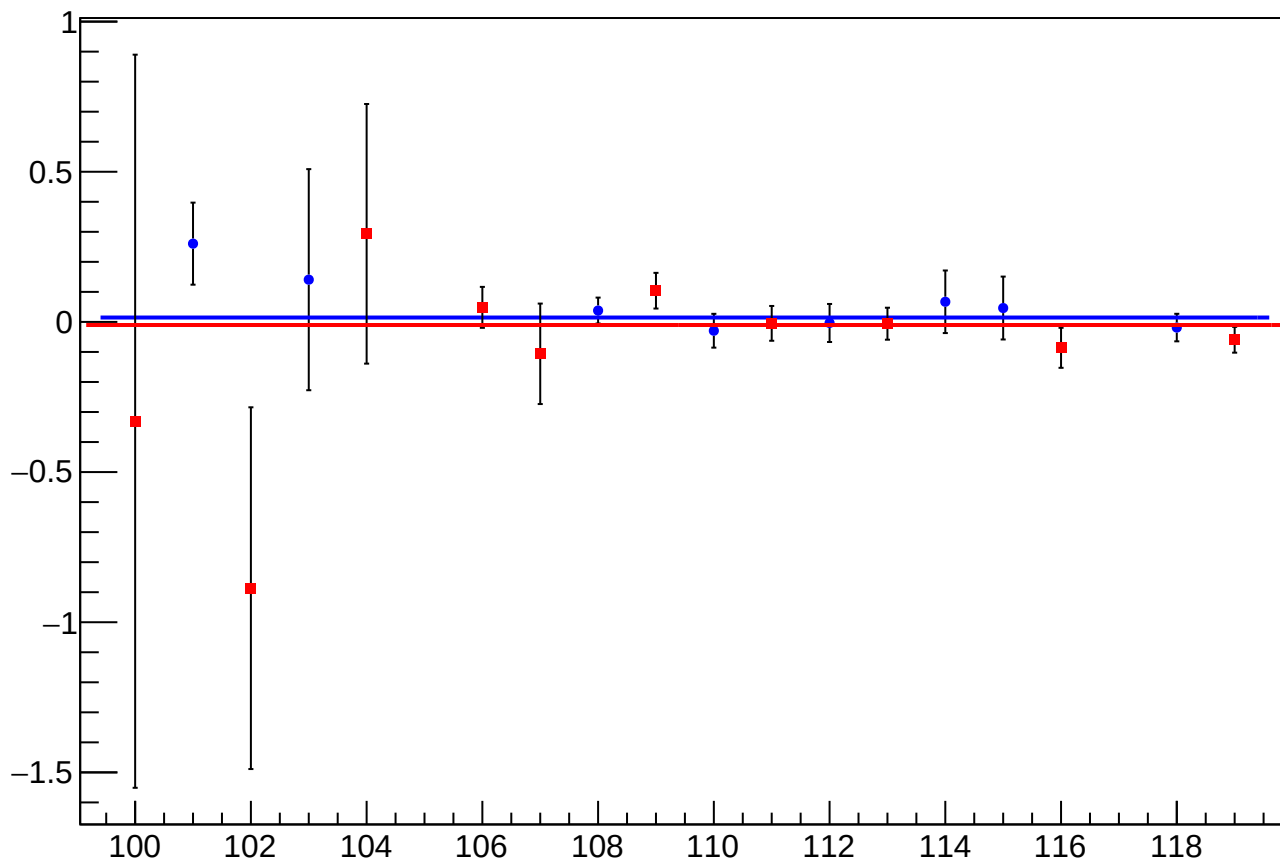
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.823+/-0.011  $\chi^2/\text{NDF}$ : 3200620.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.015 $\pm$ 0.023  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.010 $\pm$ 0.023  $\chi^2$ /NDF: 10.1/9

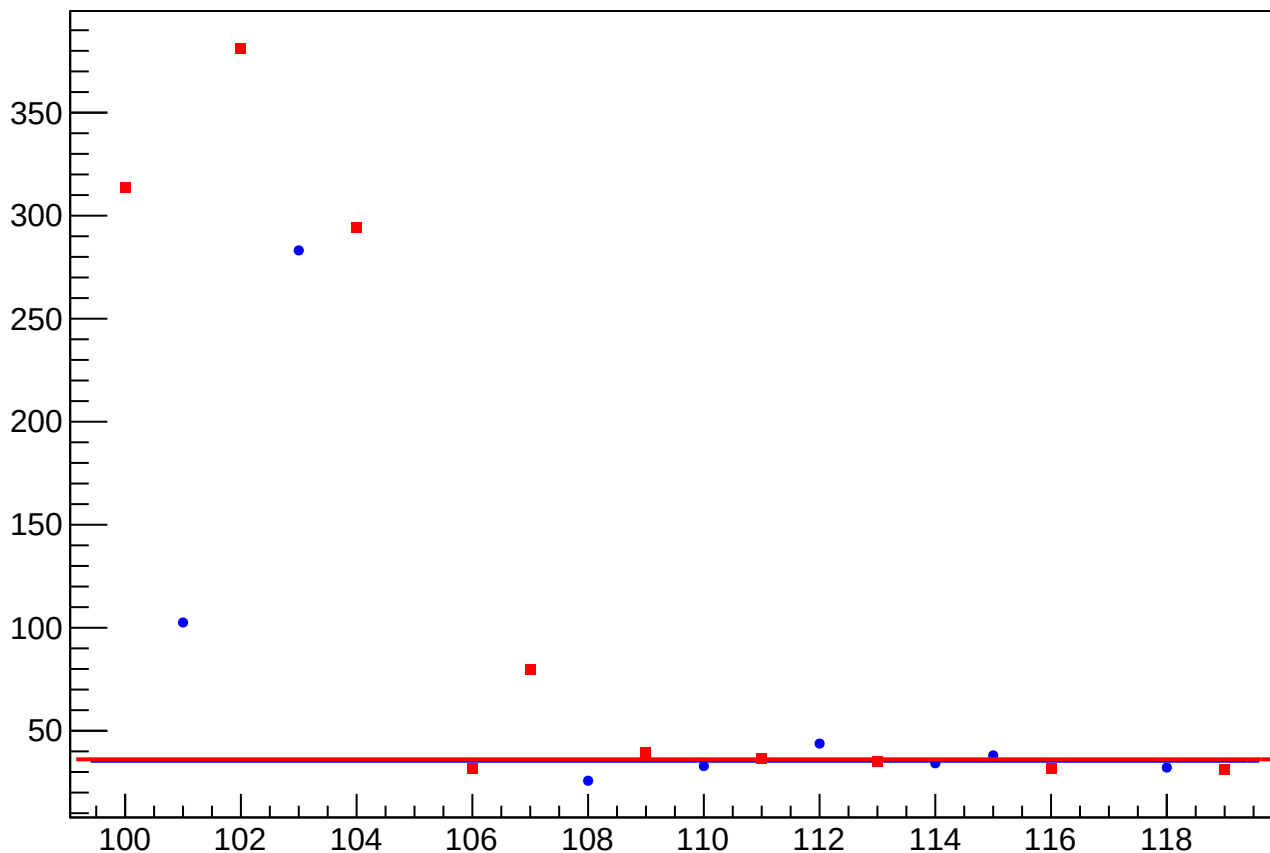
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.016  $\chi^2$ /NDF: 15.9/17

- 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: 35.468+/-0.017  $\chi^2/\text{NDF}$ : 1539779.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.153+/-0.016  $\chi^2/\text{NDF}$ : 1659955.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

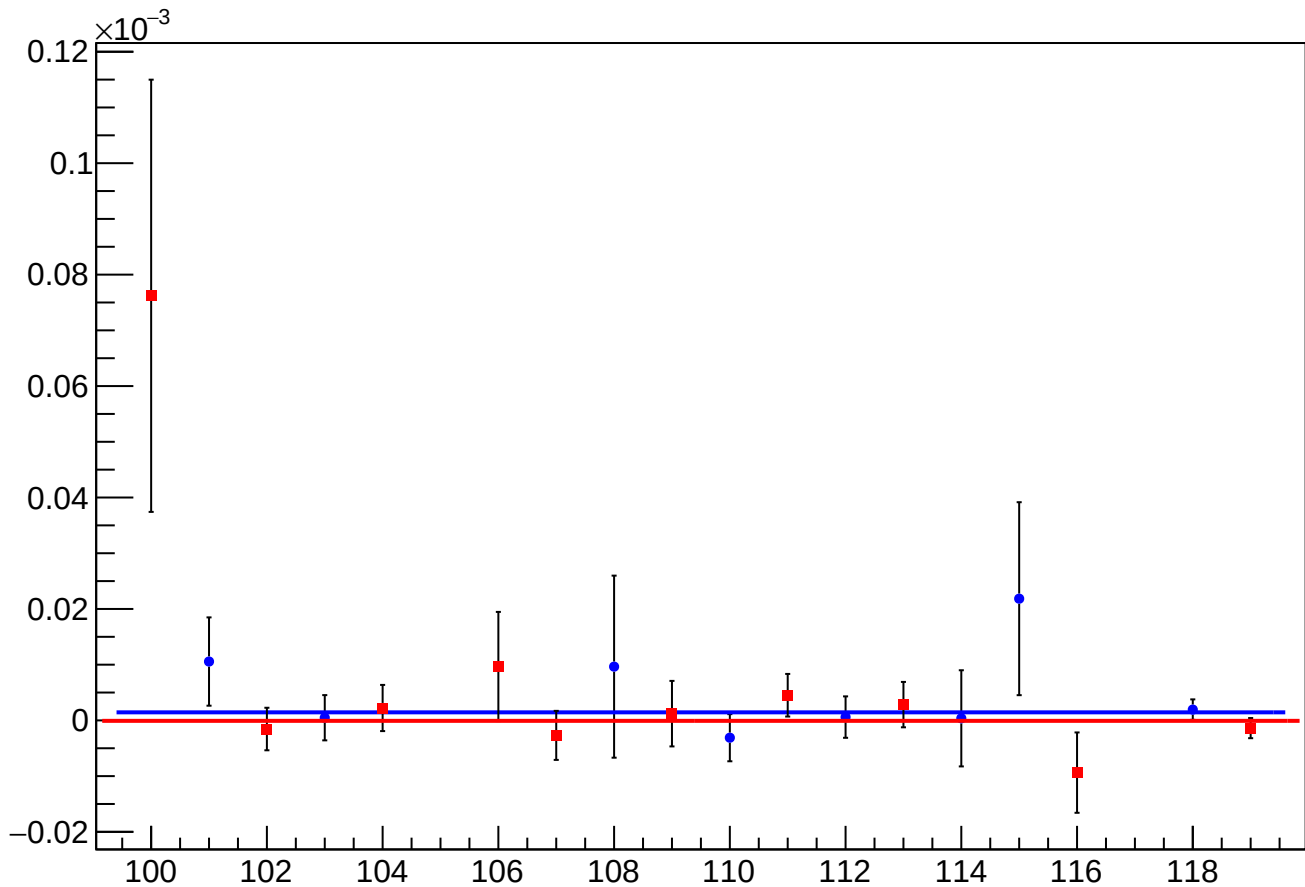
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.823+/-0.011  $\chi^2/\text{NDF}$ : 3200620.6/17

- 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: 4.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.9/9

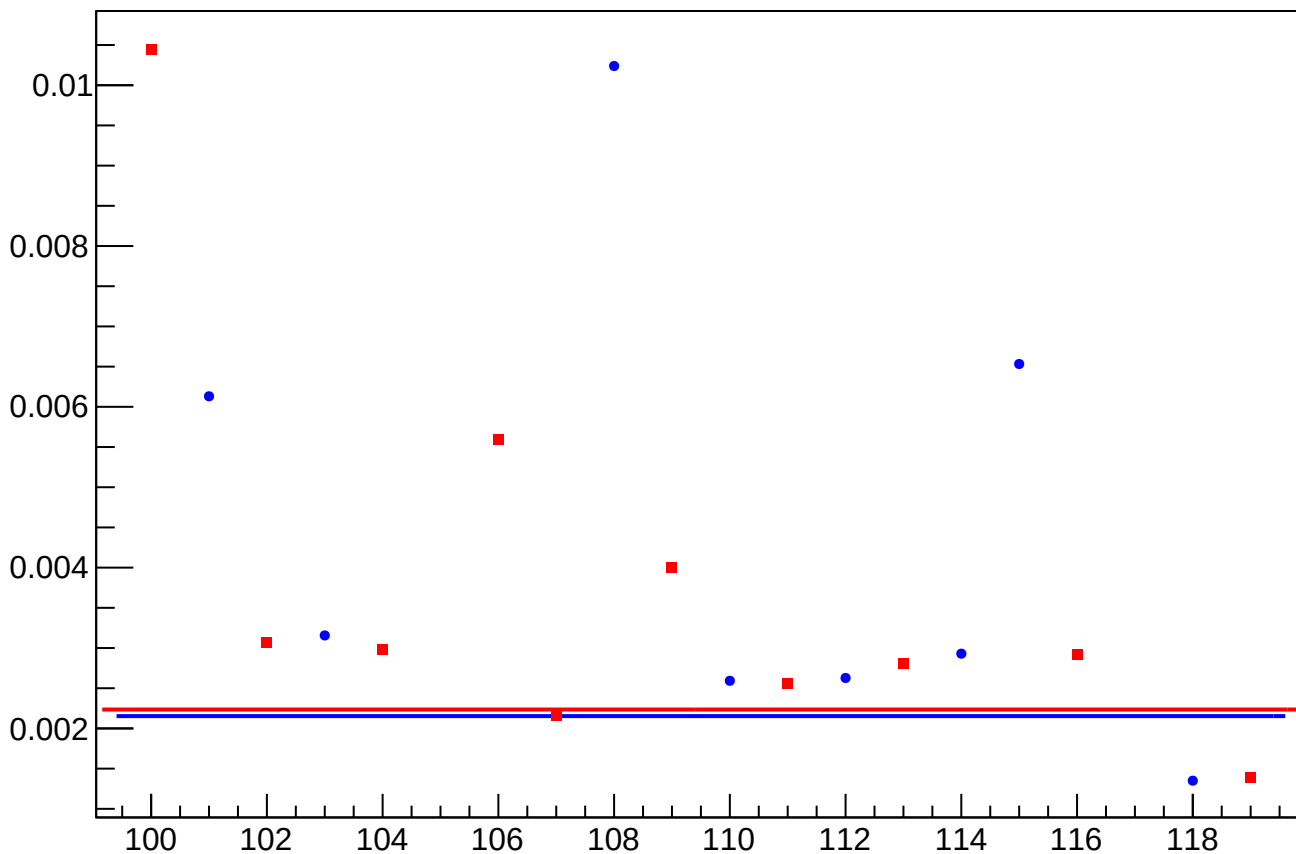
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.9/17

- 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: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1697518.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1172900.2/9

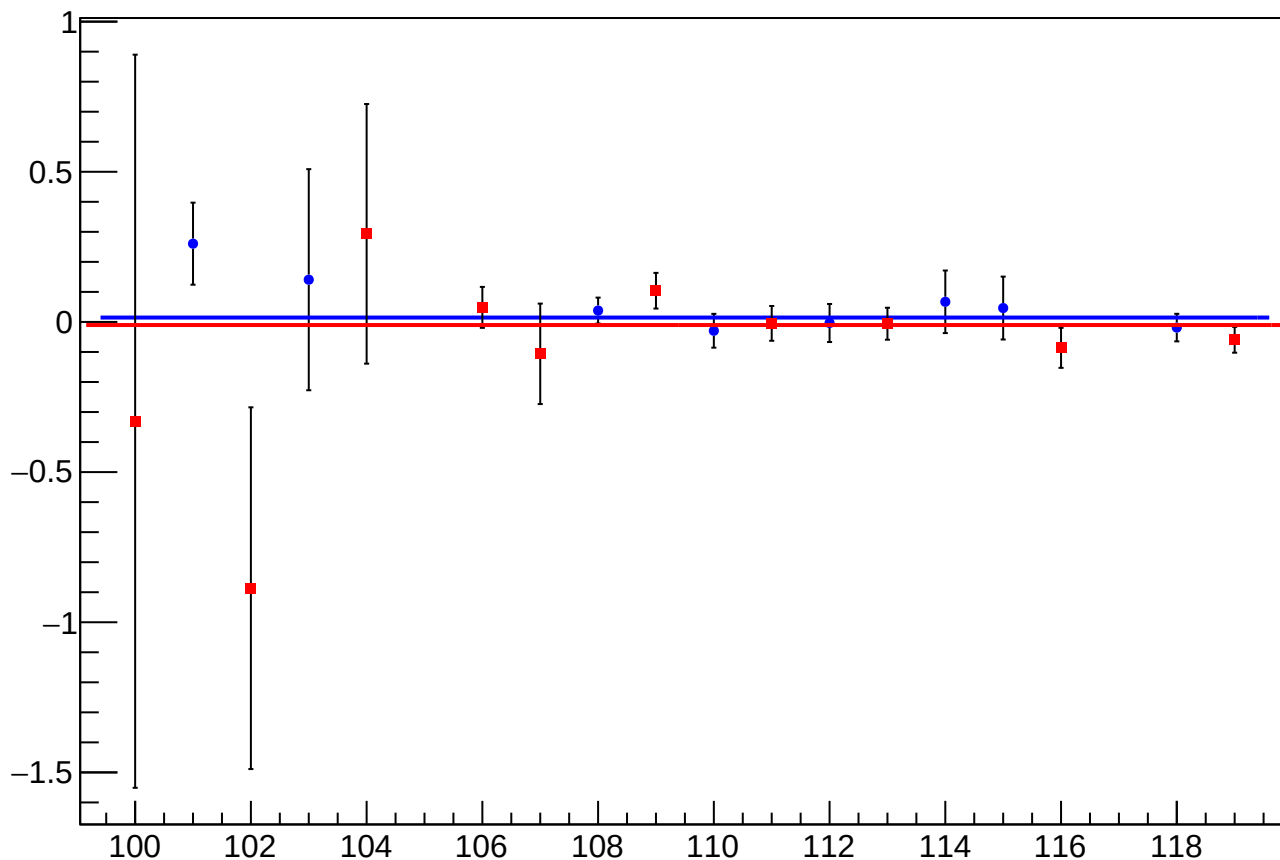
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2874361.3/17

- 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: 0.015 $\pm$ 0.023  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.010 $\pm$ 0.023  $\chi^2$ /NDF: 10.1/9

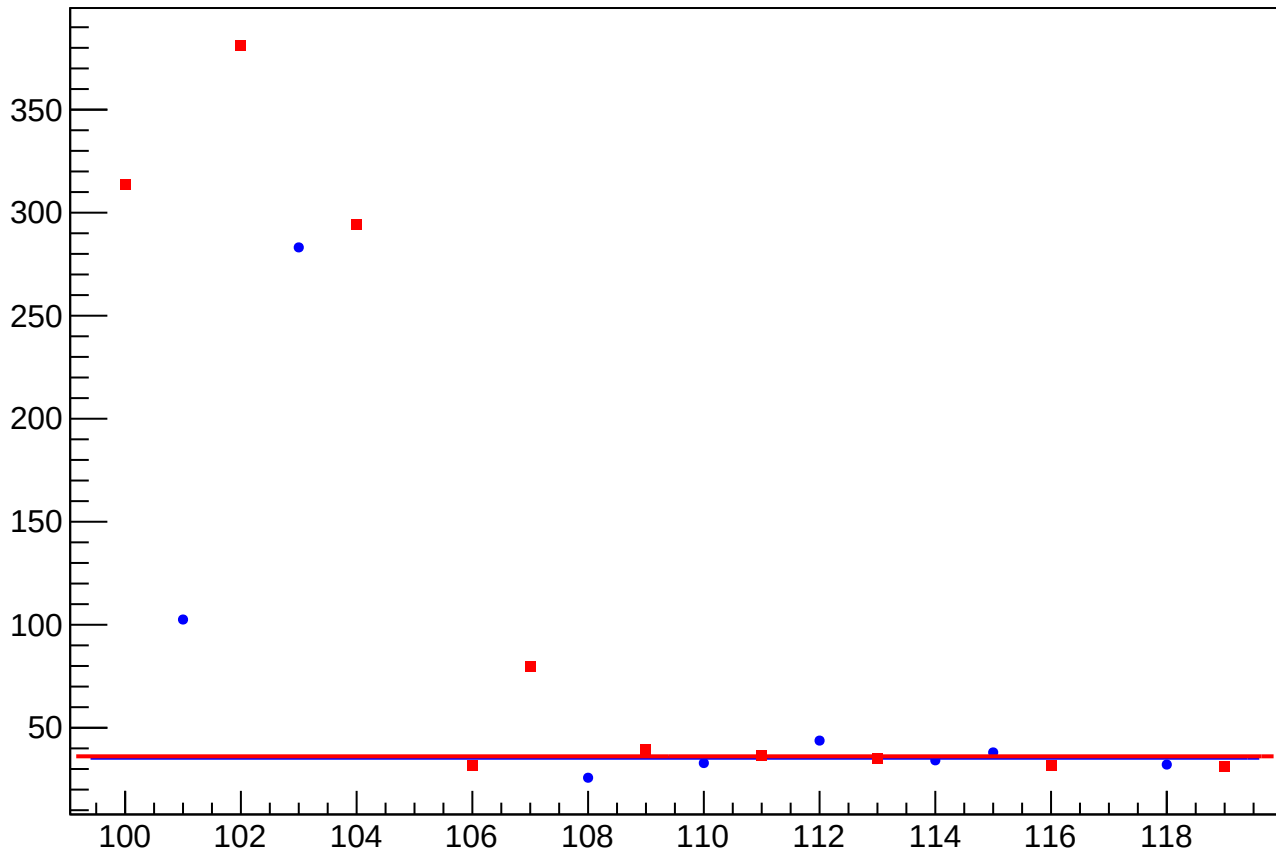
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.016  $\chi^2$ /NDF: 15.9/17

- 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: 35.470+/-0.017  $\chi^2/\text{NDF}$ : 1539711.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.153+/-0.016  $\chi^2/\text{NDF}$ : 1659958.4/9

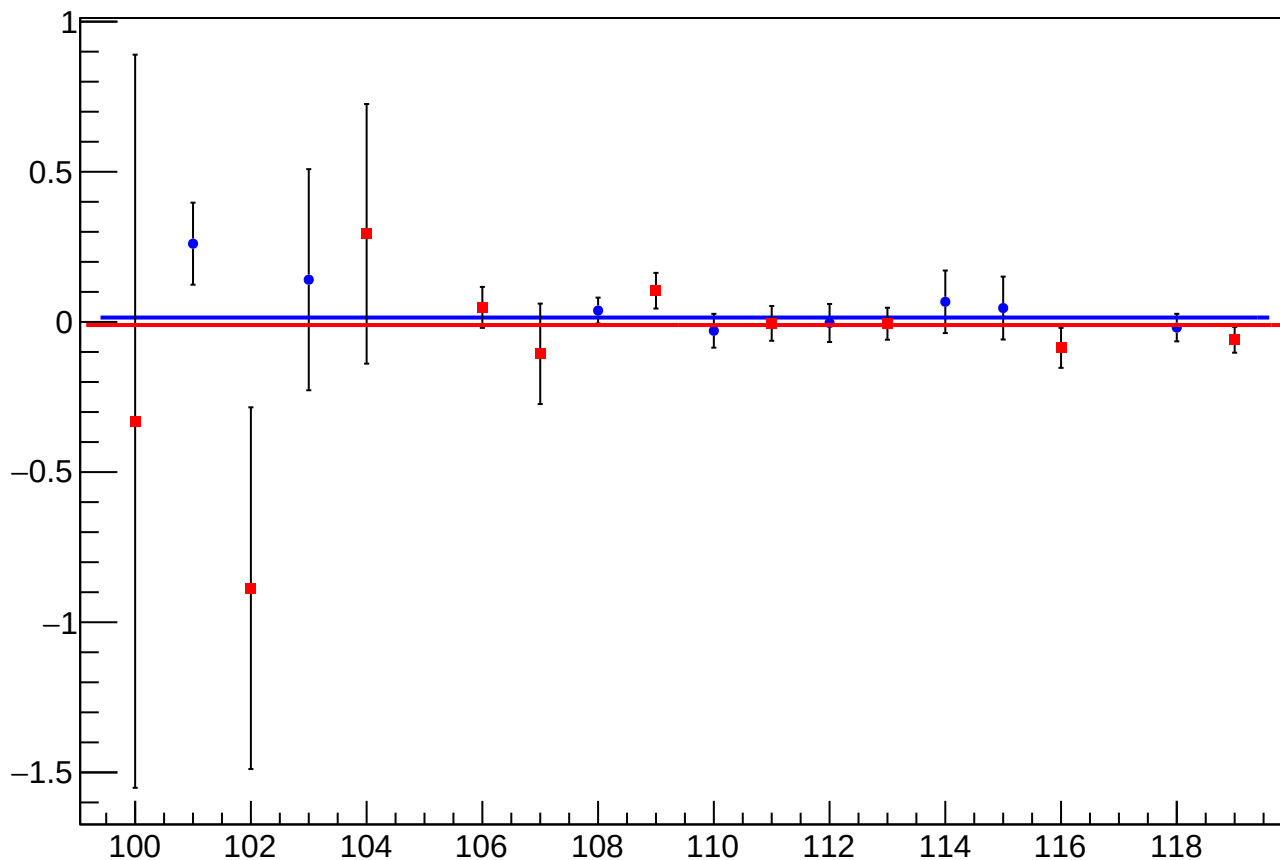
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.824+/-0.011  $\chi^2/\text{NDF}$ : 3200552.3/17

- 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: 0.015 $\pm$ 0.023  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.010 $\pm$ 0.023  $\chi^2$ /NDF: 10.1/9

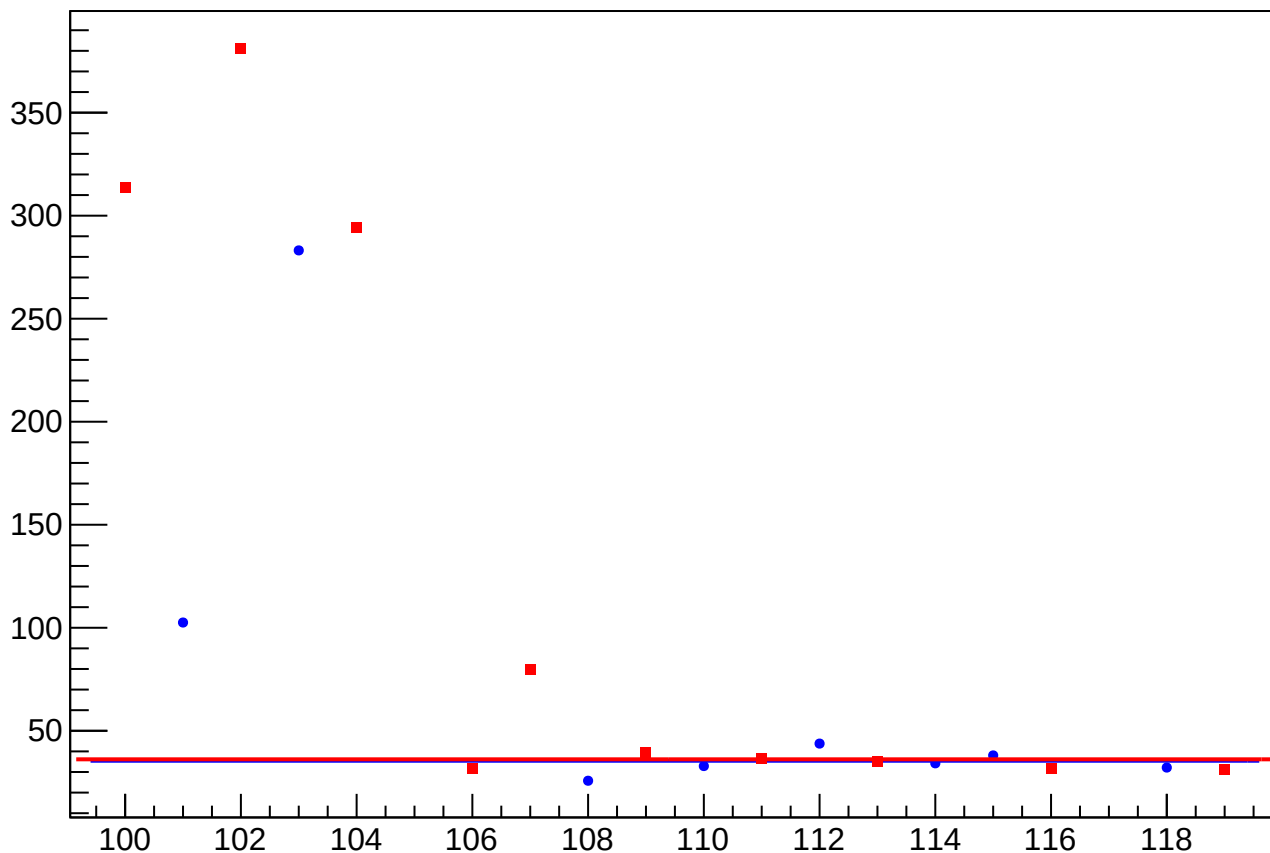
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.016  $\chi^2$ /NDF: 15.9/17

- 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: 35.470+/-0.017  $\chi^2/\text{NDF}$ : 1539711.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.153+/-0.016  $\chi^2/\text{NDF}$ : 1659958.4/9

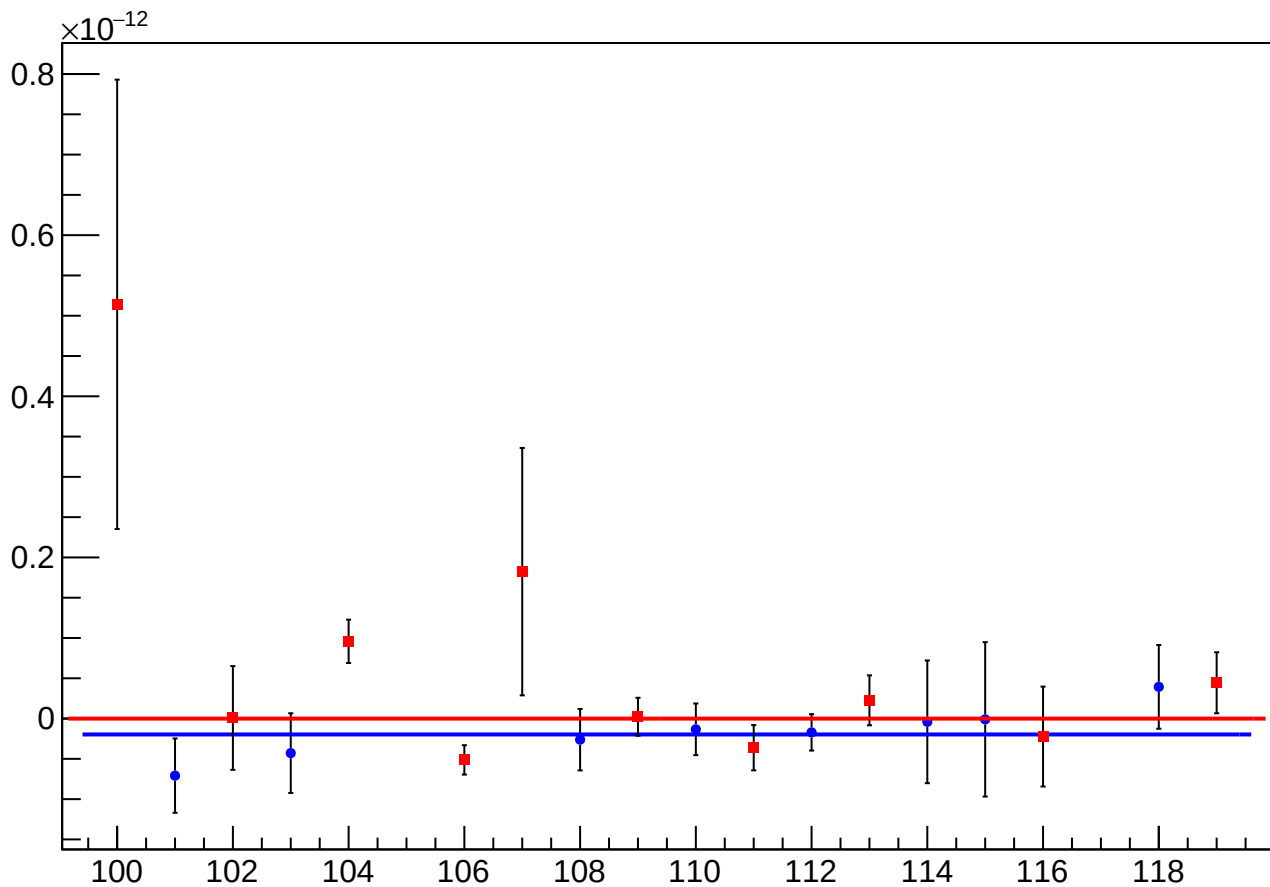
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.824+/-0.011  $\chi^2/\text{NDF}$ : 3200552.3/17

- 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  $\chi^2/\text{NDF}$ : 2.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 29.1/9

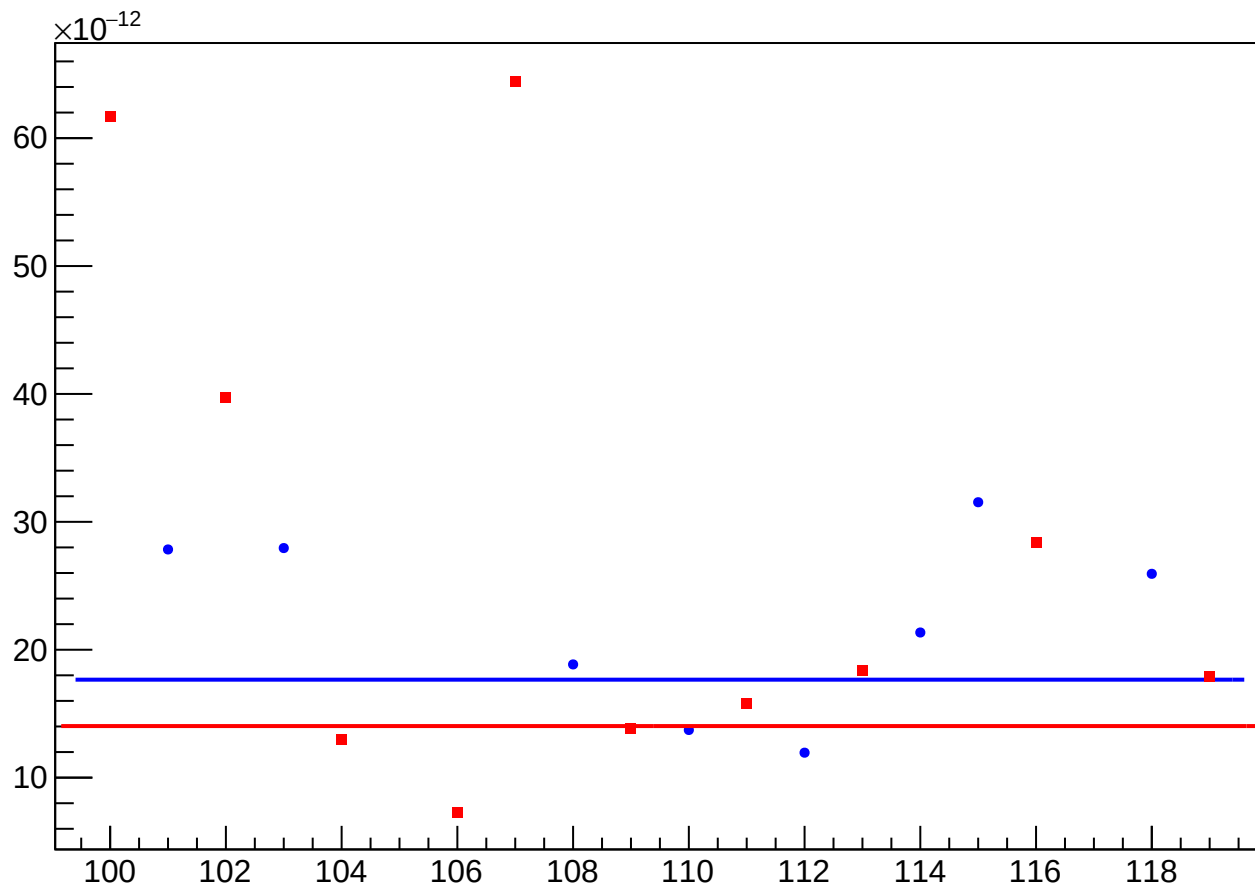
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 33.3/17

- 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:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 441266.9/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 1047263.1/9$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

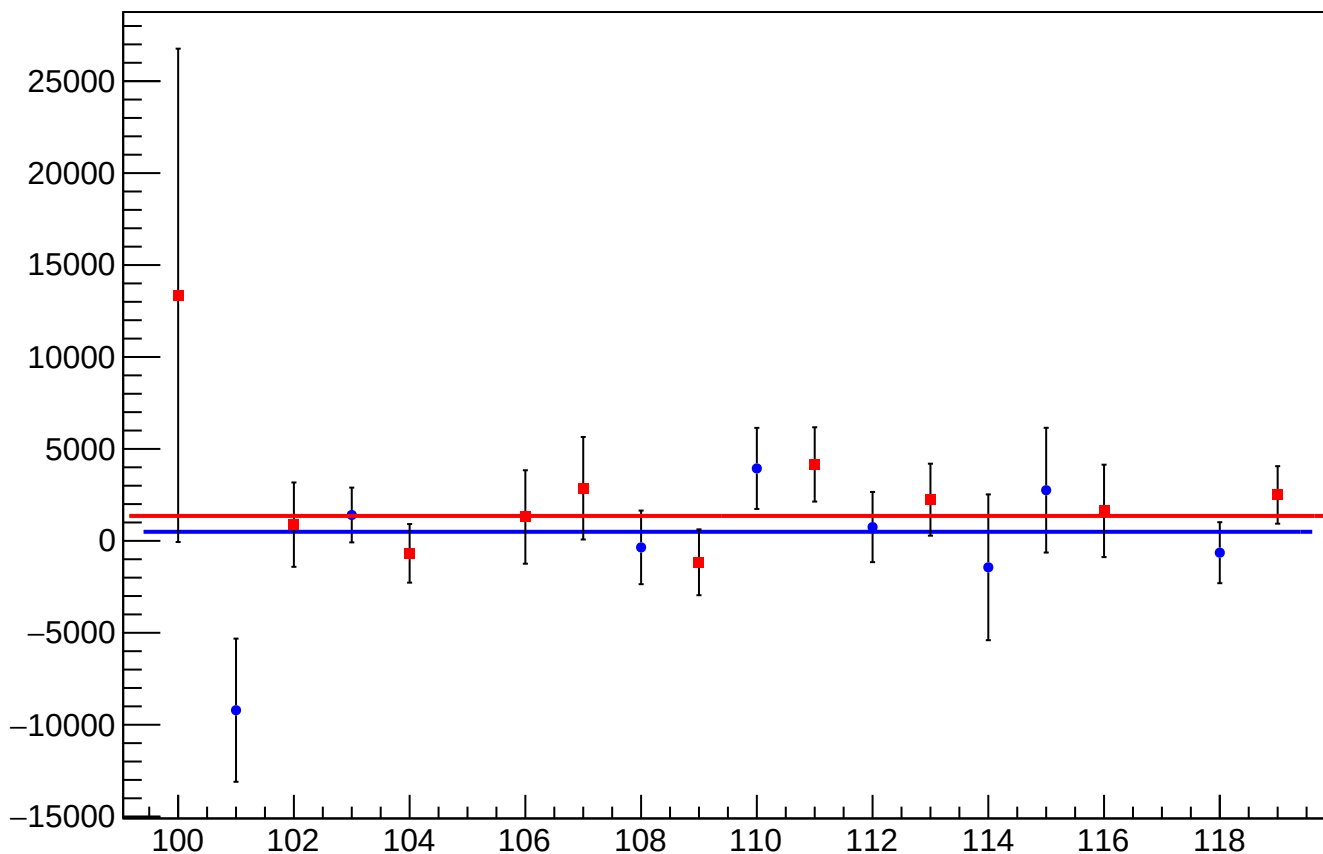
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 1577258.5/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$



reg\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 493.289+/-753.723  $\chi^2/\text{NDF}$ : 10.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1356.214+/-665.429  $\chi^2/\text{NDF}$ : 7.4/9

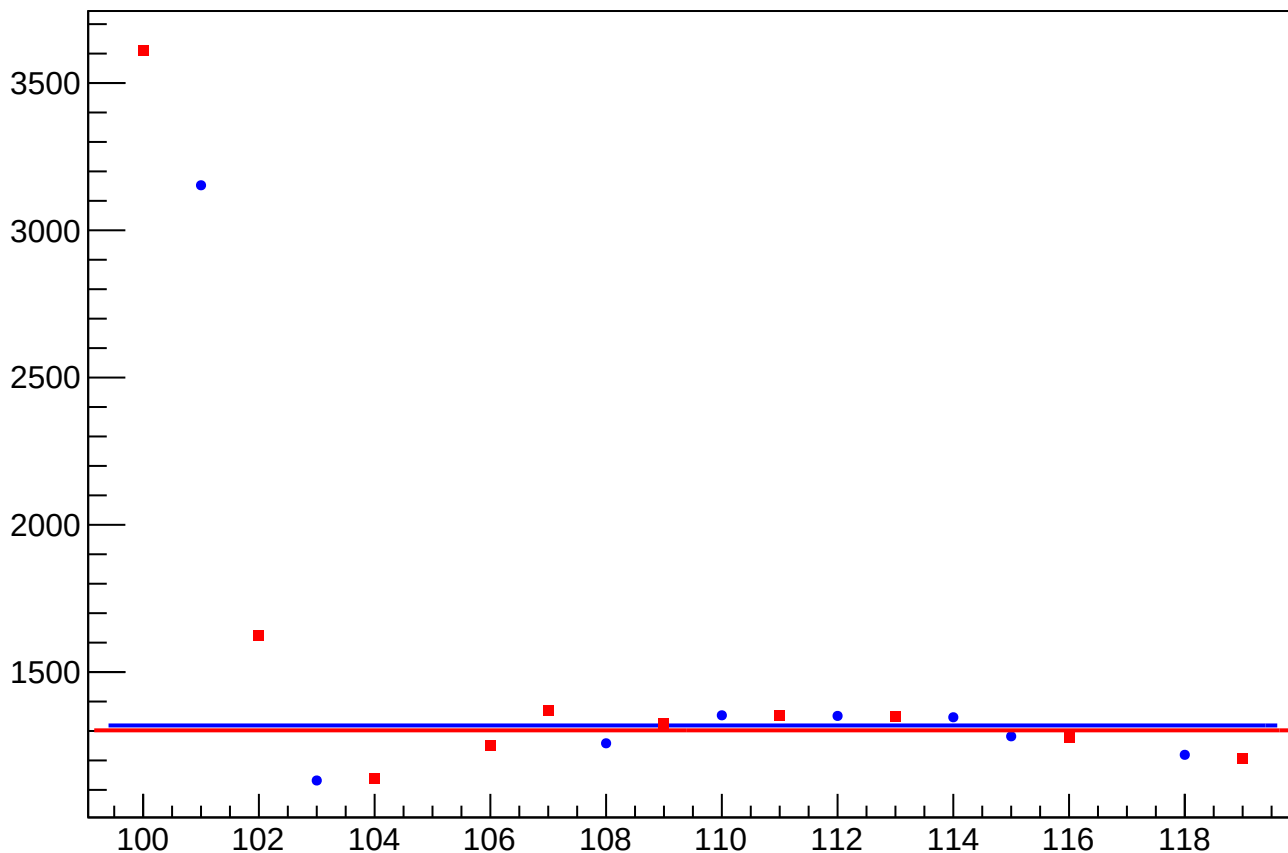
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 978.232+/-498.839  $\chi^2/\text{NDF}$ : 18.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 1318.764+/-0.533  $\chi^2/\text{NDF}$ : 485828.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1302.182+/-0.471  $\chi^2/\text{NDF}$ : 131574.5/9

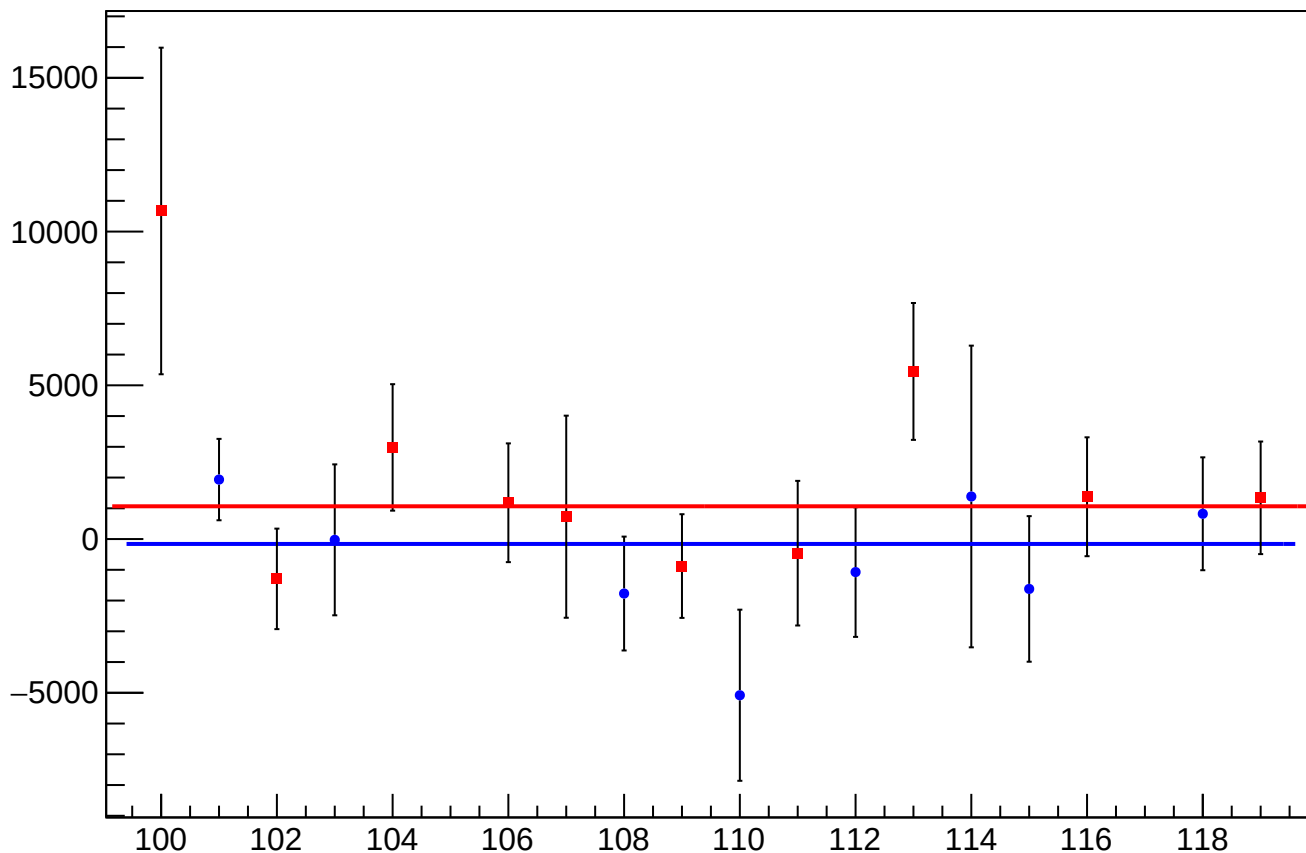
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1309.445+/-0.353  $\chi^2/\text{NDF}$ : 617946.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_reg\_correction\_mean vs Slug



Right In: -159.162+/-725.606  $\chi^2/\text{NDF}$ : 7.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1065.513+/-658.342  $\chi^2/\text{NDF}$ : 11.9/9

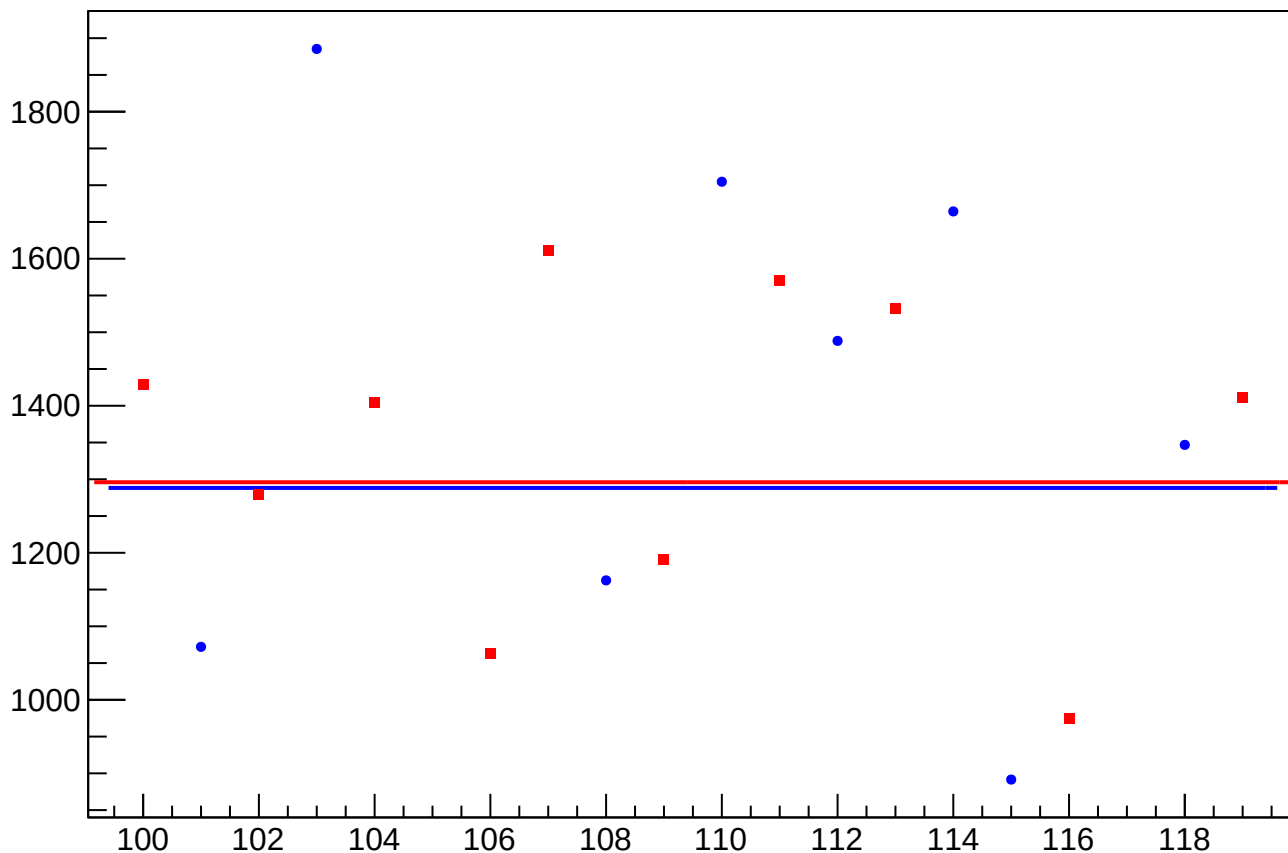
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 512.558+/-487.568  $\chi^2/\text{NDF}$ : 20.8/17

- 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: 1288.261+/-0.513  $\chi^2/\text{NDF}$ : 313688.8/7

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

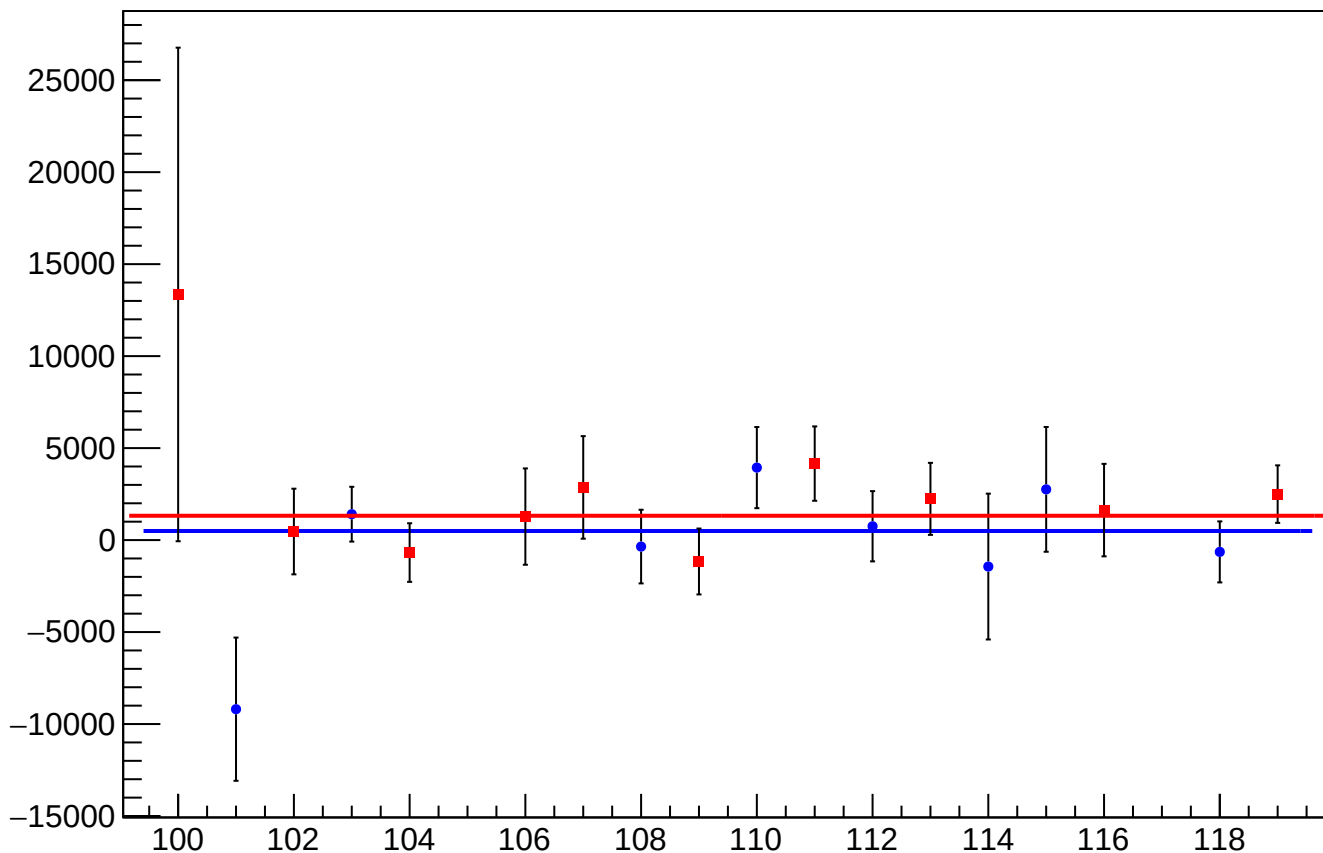
Right Out: 1295.975+/-0.466  $\chi^2/\text{NDF}$ : 175154.5/9

All: 1292.492+/-0.345  $\chi^2/\text{NDF}$ : 488967.3/17

- 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\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 493.951+/-753.723  $\chi^2/\text{NDF}$ : 10.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1322.171+/-667.605  $\chi^2/\text{NDF}$ : 7.5/9

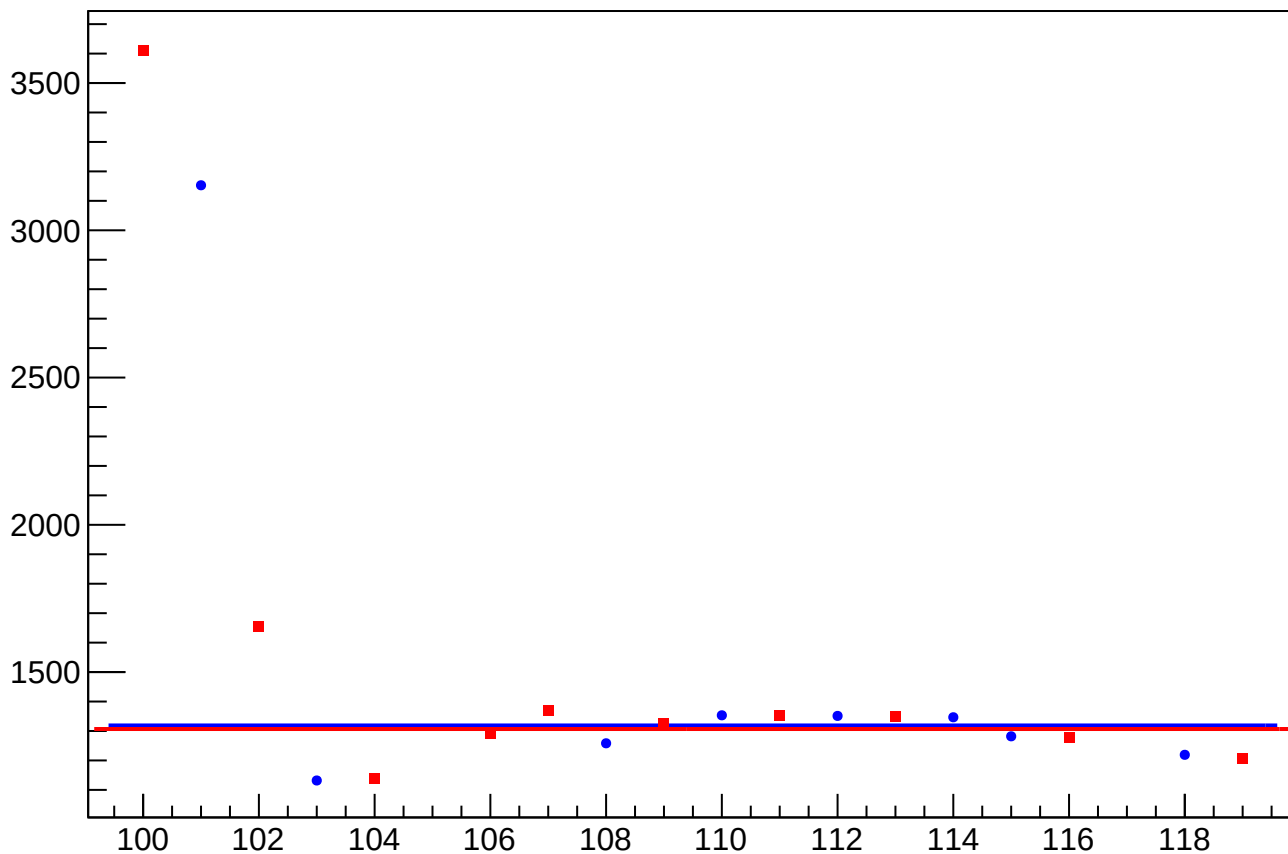
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 958.059+/-499.754  $\chi^2/\text{NDF}$ : 18.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 1318.764+/-0.533  $\chi^2/\text{NDF}$ : 485829.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1306.716+/-0.472  $\chi^2/\text{NDF}$ : 137388.7/9

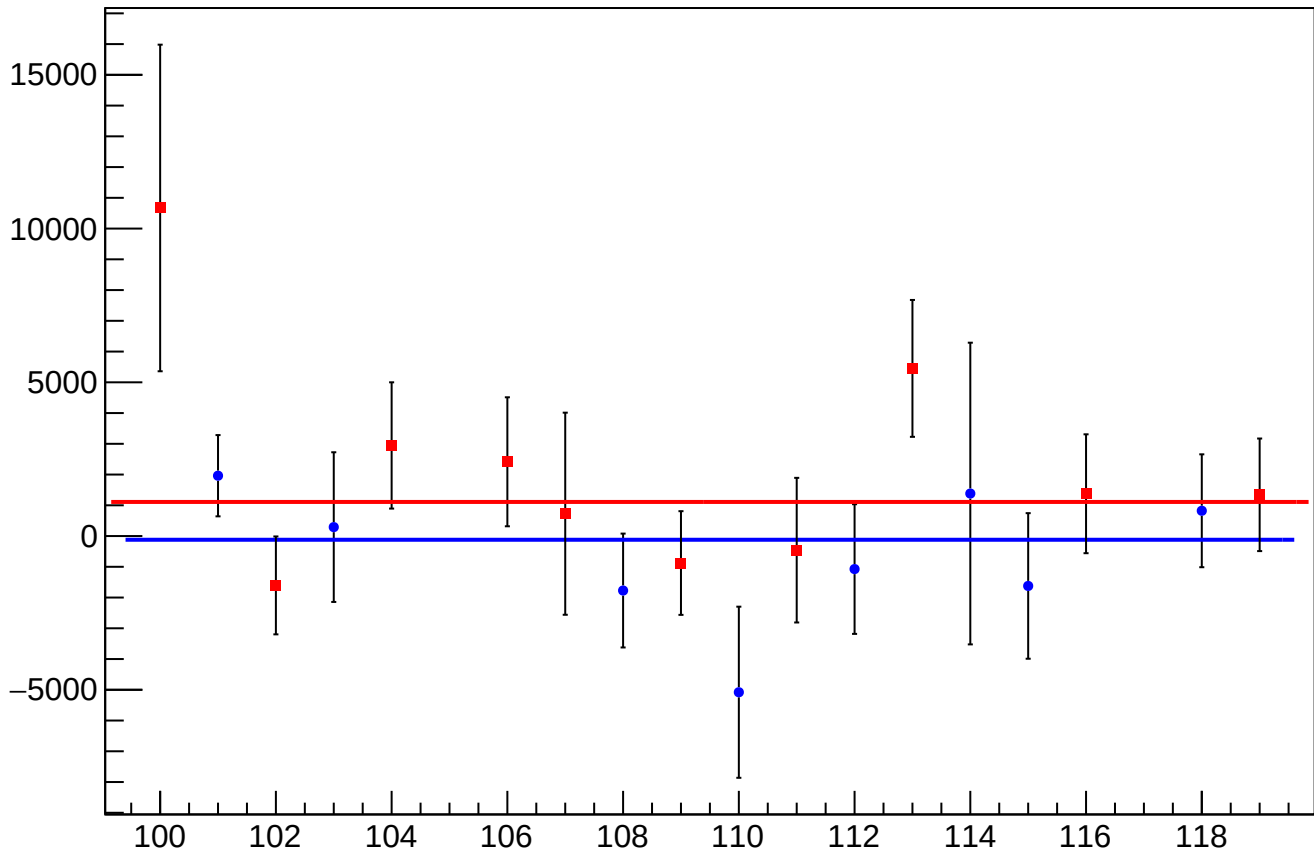
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1312.012+/-0.353  $\chi^2/\text{NDF}$ : 623505.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_cor\_correction\_mean vs Slug



Right In: -120.671+/-724.735  $\chi^2/\text{NDF}$ : 7.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1109.223+/-661.212  $\chi^2/\text{NDF}$ : 13.0/9

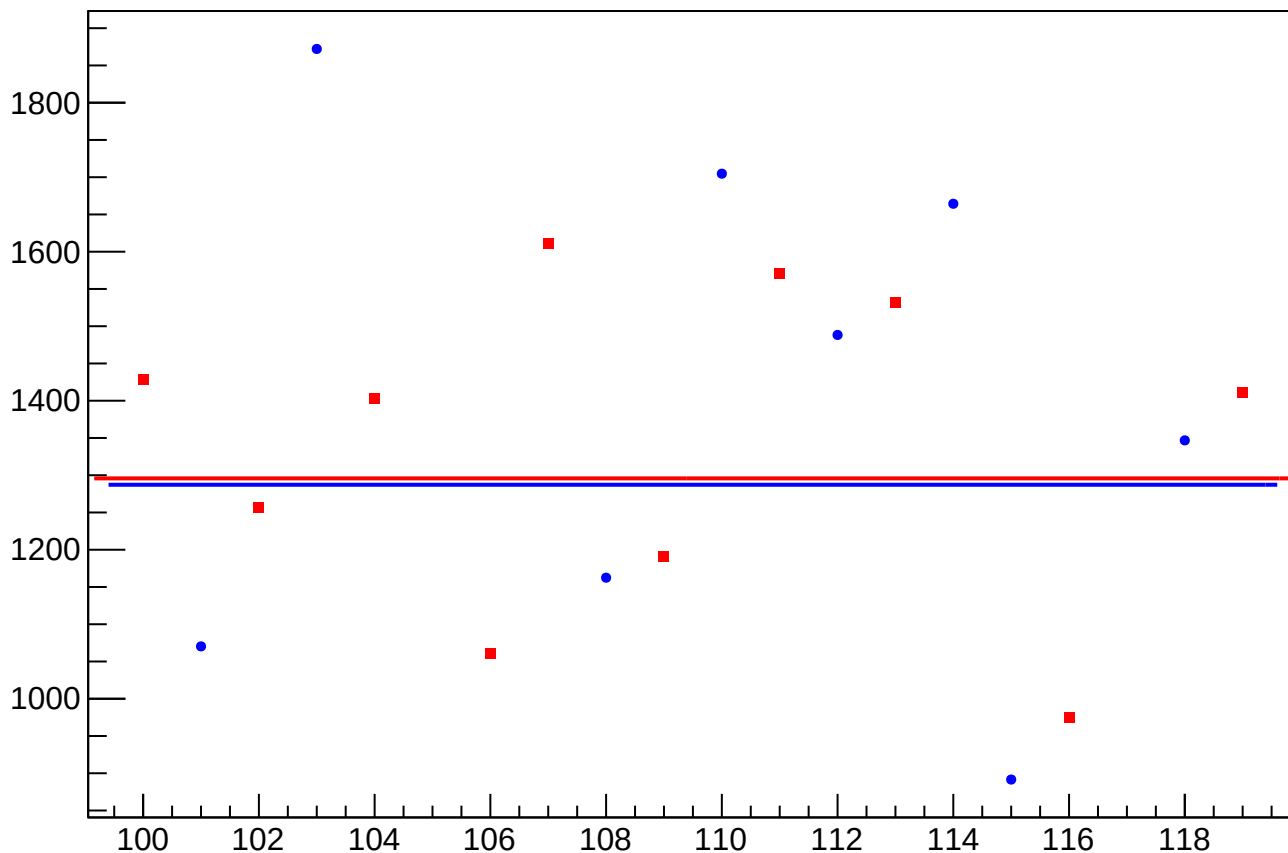
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 550.528+/-488.464  $\chi^2/\text{NDF}$ : 22.0/17

- 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: 1287.216+/-0.512  $\chi^2/\text{NDF}$ : 311443.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1295.762+/-0.468  $\chi^2/\text{NDF}$ : 172059.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

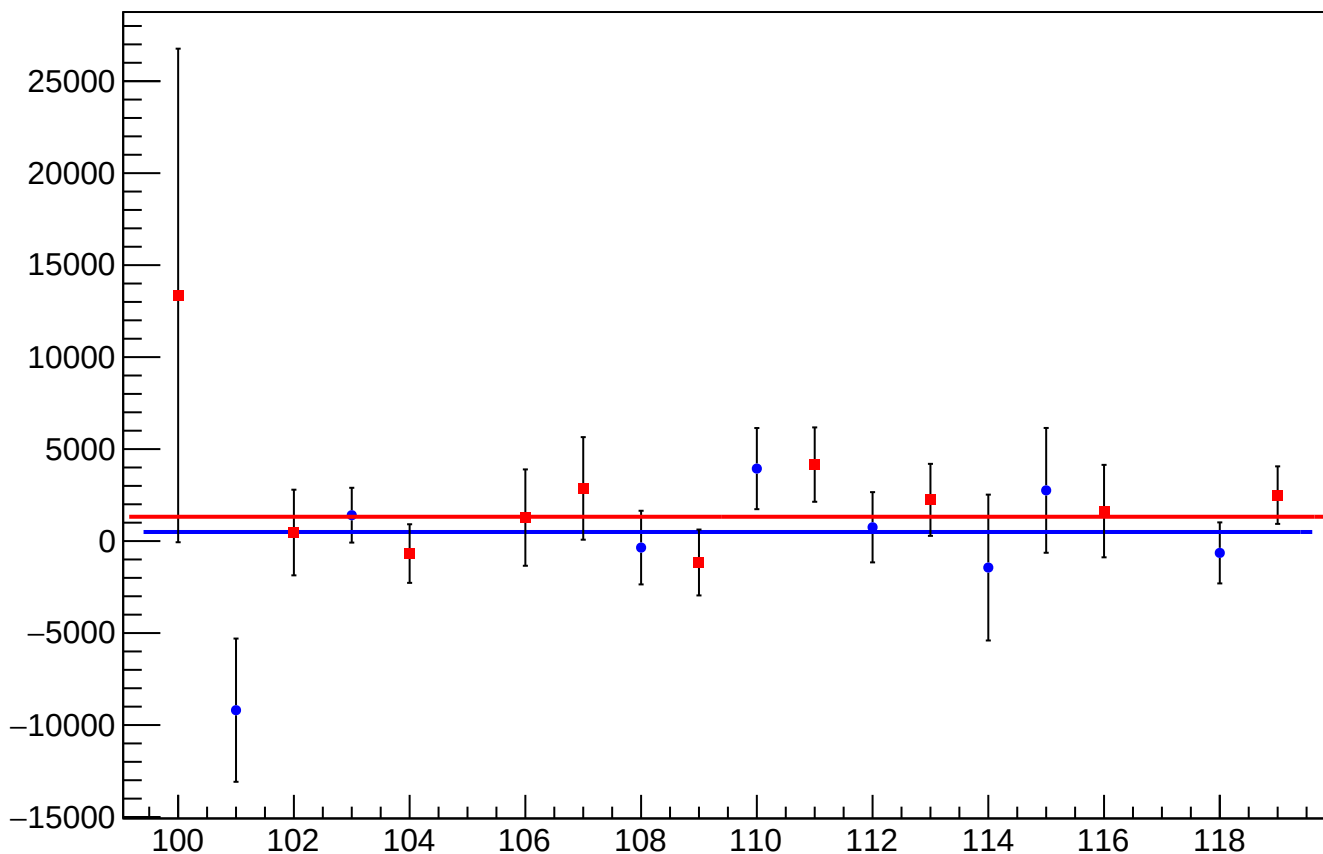
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1291.880+/-0.345  $\chi^2/\text{NDF}$ : 483654.3/17

- 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: 493.951+/-753.723  $\chi^2/\text{NDF}$ : 10.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1322.171+/-667.605  $\chi^2/\text{NDF}$ : 7.5/9

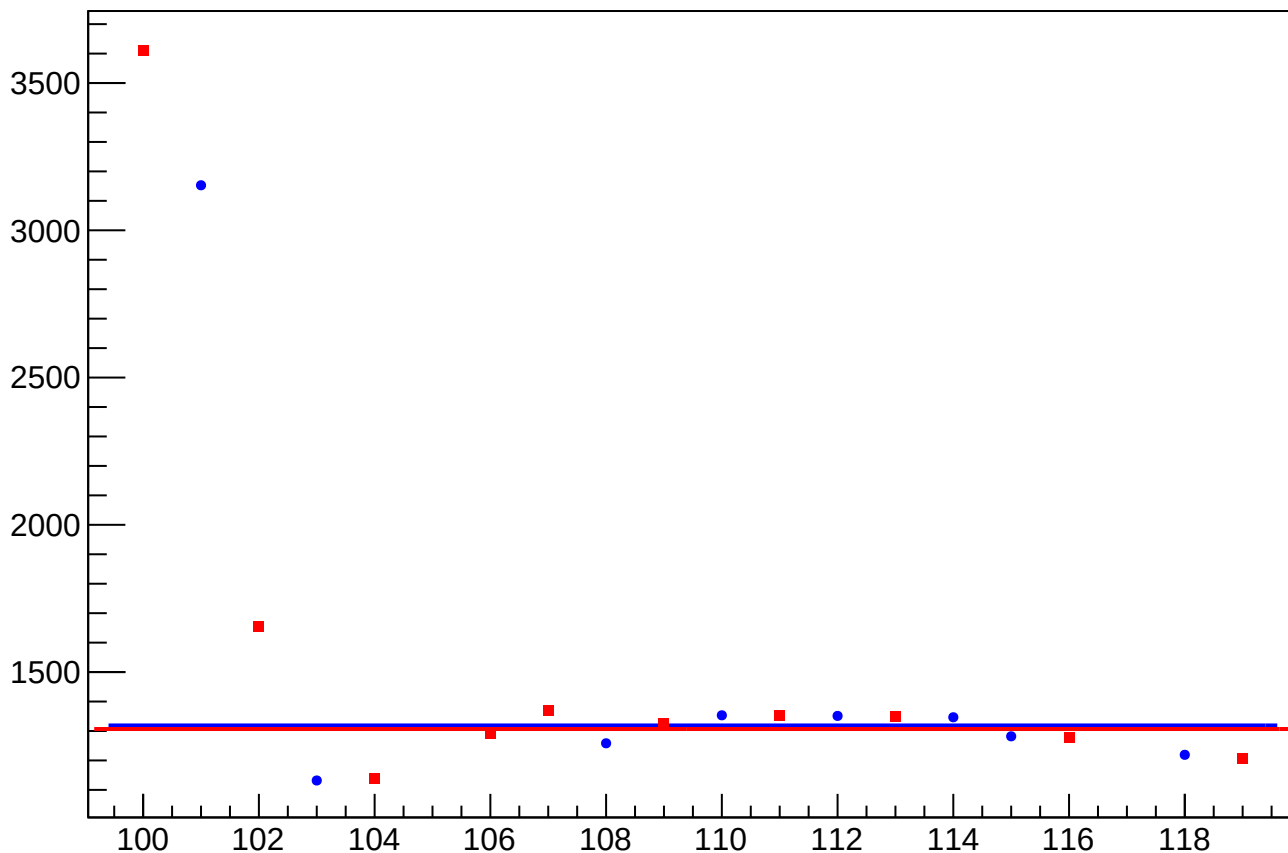
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 958.059+/-499.754  $\chi^2/\text{NDF}$ : 18.6/17

- 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: 1318.764+/-0.533  $\chi^2/\text{NDF}$ : 485829.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1306.716+/-0.472  $\chi^2/\text{NDF}$ : 137388.7/9

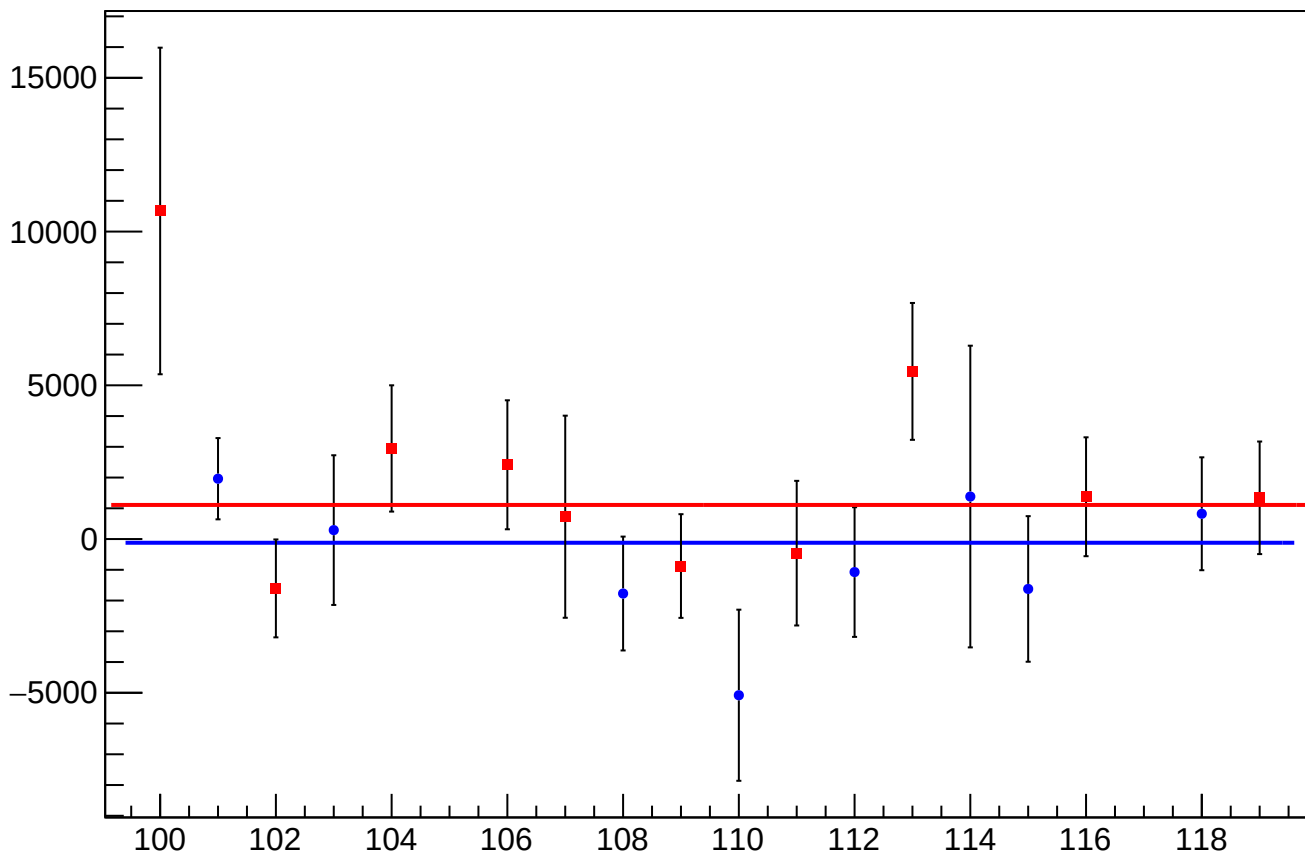
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1312.012+/-0.353  $\chi^2/\text{NDF}$ : 623505.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -120.671+/-724.735  $\chi^2/\text{NDF}$ : 7.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1109.223+/-661.212  $\chi^2/\text{NDF}$ : 13.0/9

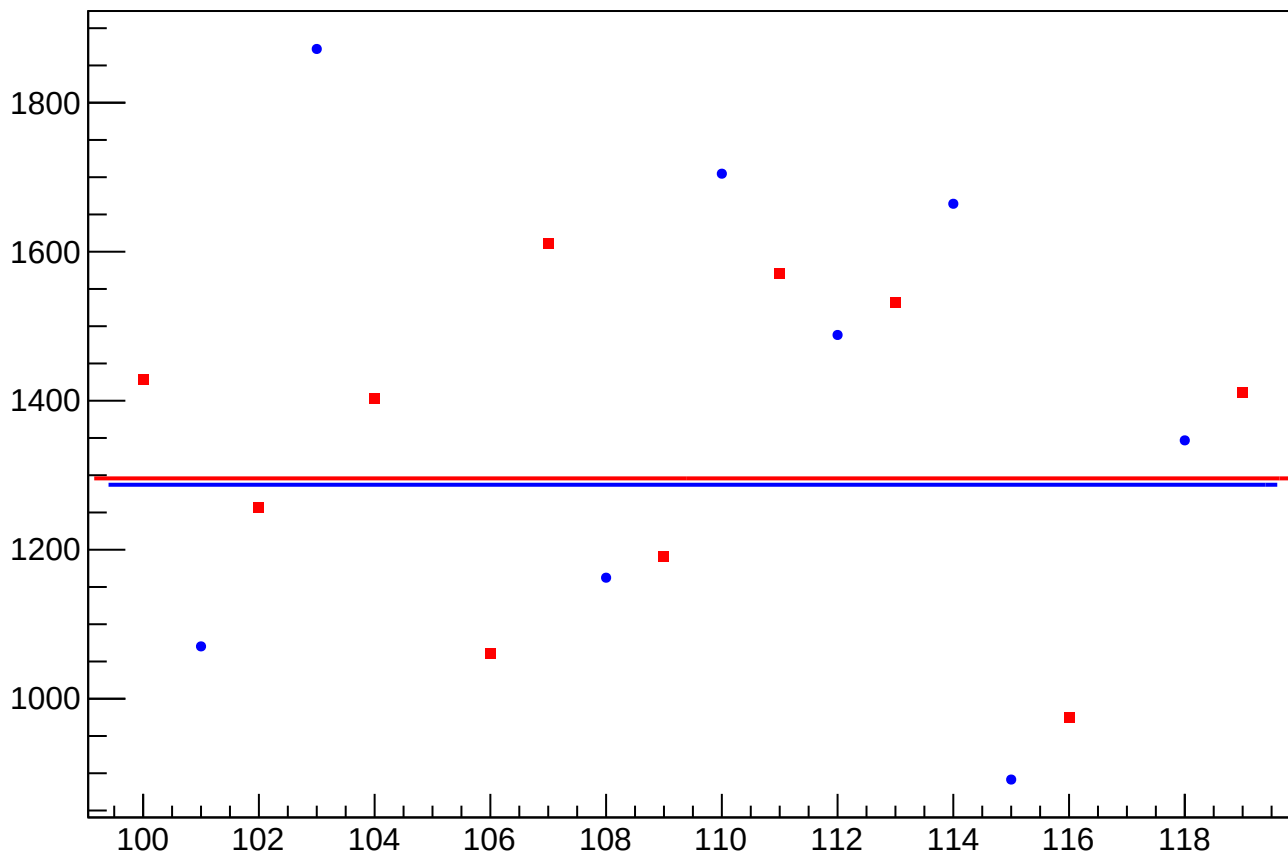
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 550.528+/-488.464  $\chi^2/\text{NDF}$ : 22.0/17

- 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: 1287.216+/-0.512  $\chi^2/\text{NDF}$ : 311443.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1295.762+/-0.468  $\chi^2/\text{NDF}$ : 172059.3/9

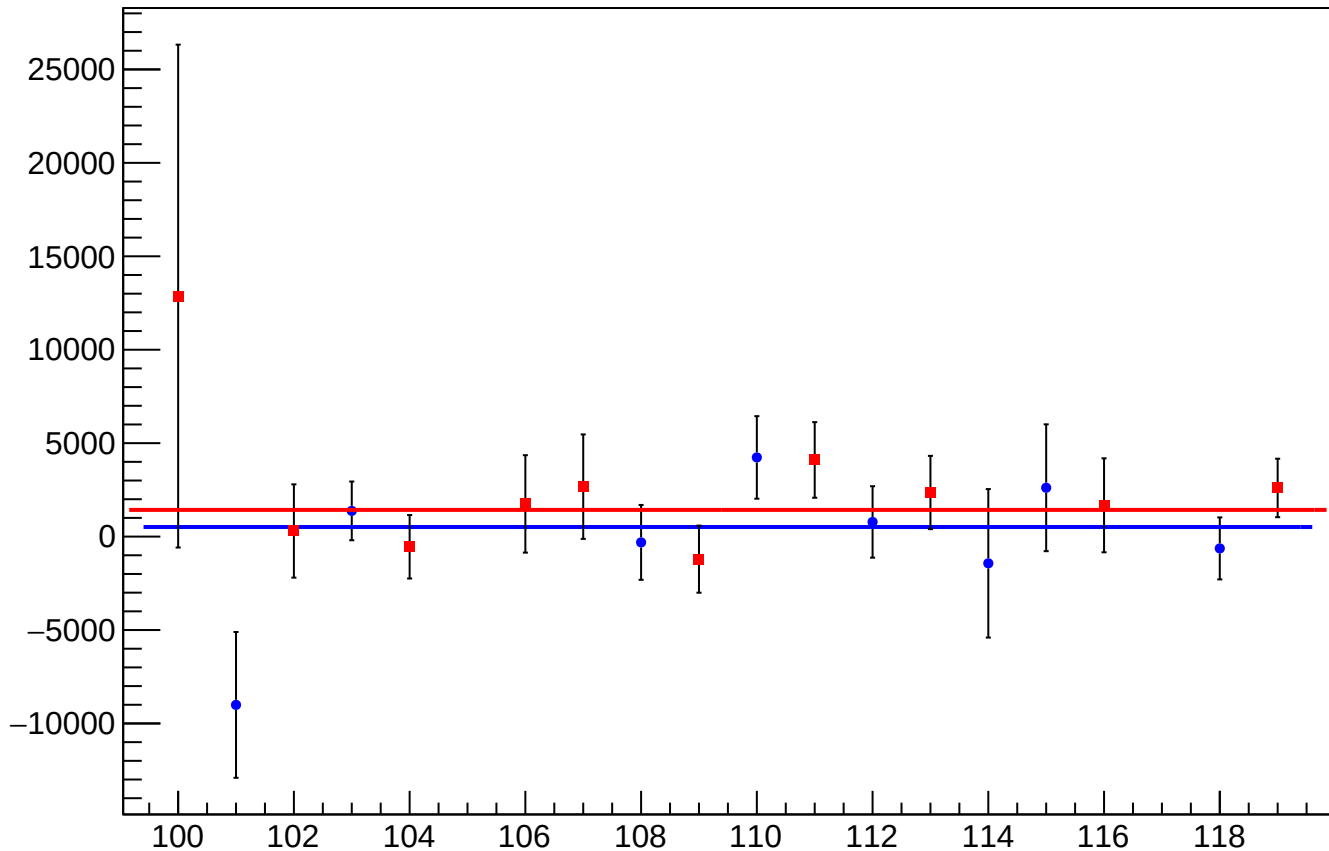
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1291.880+/-0.345  $\chi^2/\text{NDF}$ : 483654.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 512.804+/-764.281  $\chi^2/\text{NDF}$ : 10.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1428.714+/-678.969  $\chi^2/\text{NDF}$ : 7.2/9

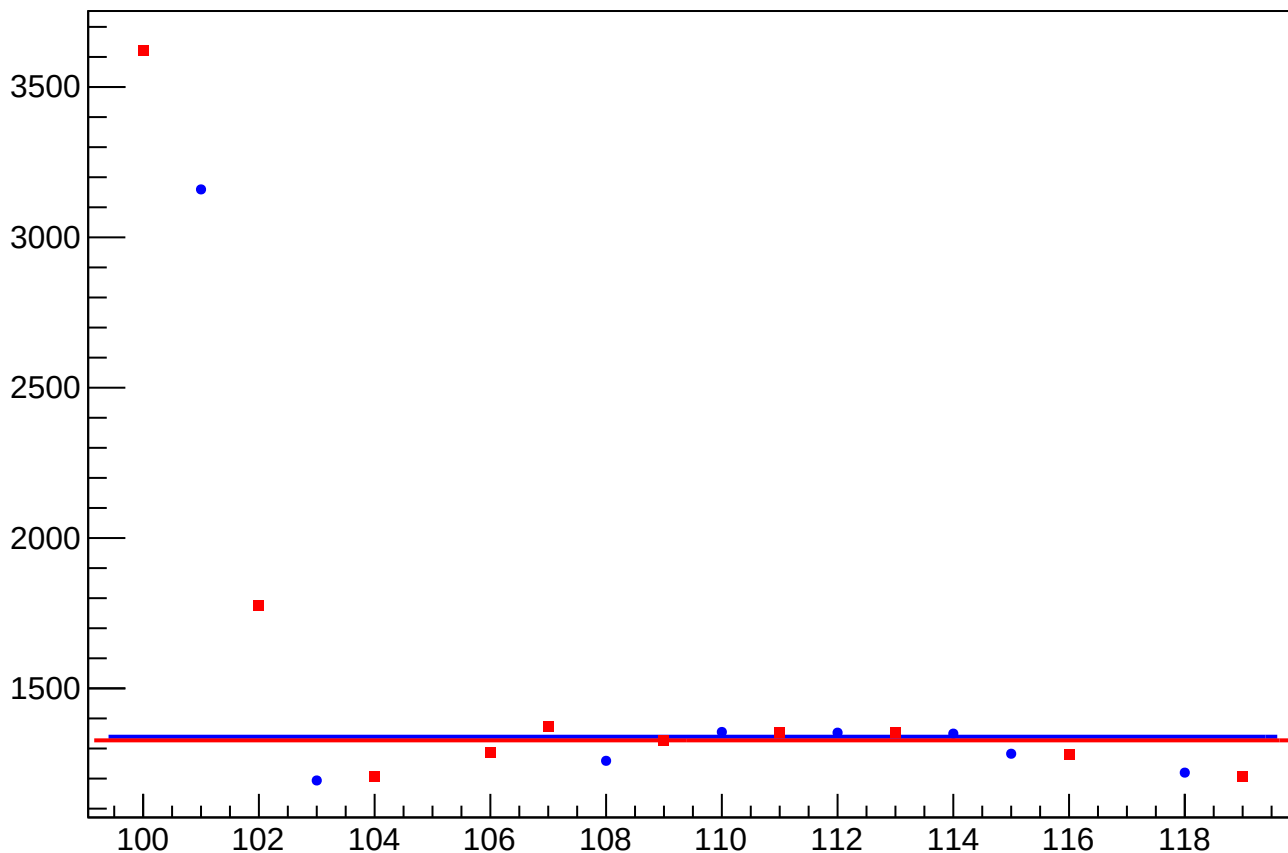
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1024.711+/-507.597  $\chi^2/\text{NDF}$ : 18.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 1339.205+/-0.540  $\chi^2/\text{NDF}$ : 466868.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1327.118+/-0.480  $\chi^2/\text{NDF}$ : 146713.4/9

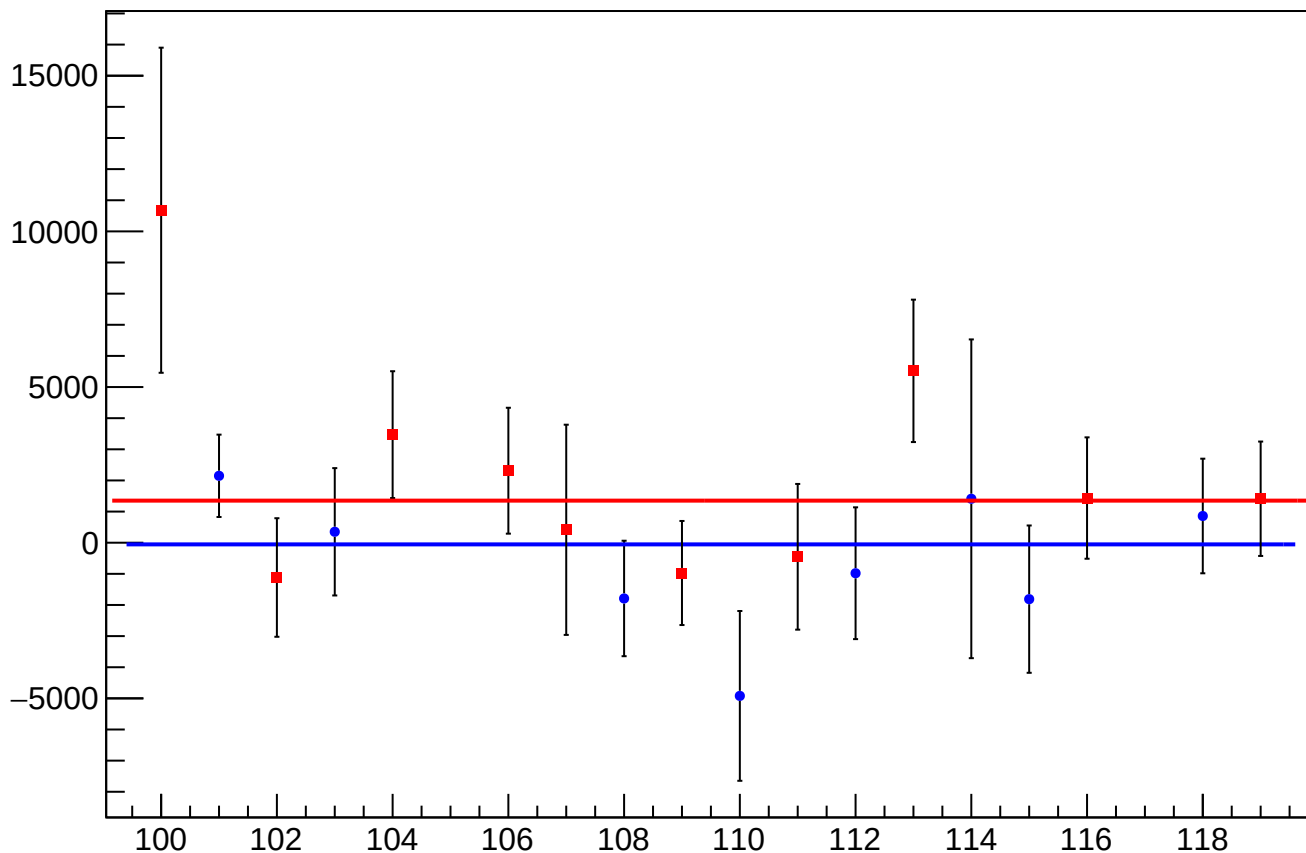
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1332.450+/-0.359  $\chi^2/\text{NDF}$ : 613861.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_dit\_correction\_mean vs Slug



Right In: -53.738 $\pm$ 712.265  $\chi^2$ /NDF: 7.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1351.569 $\pm$ 677.736  $\chi^2$ /NDF: 12.1/9

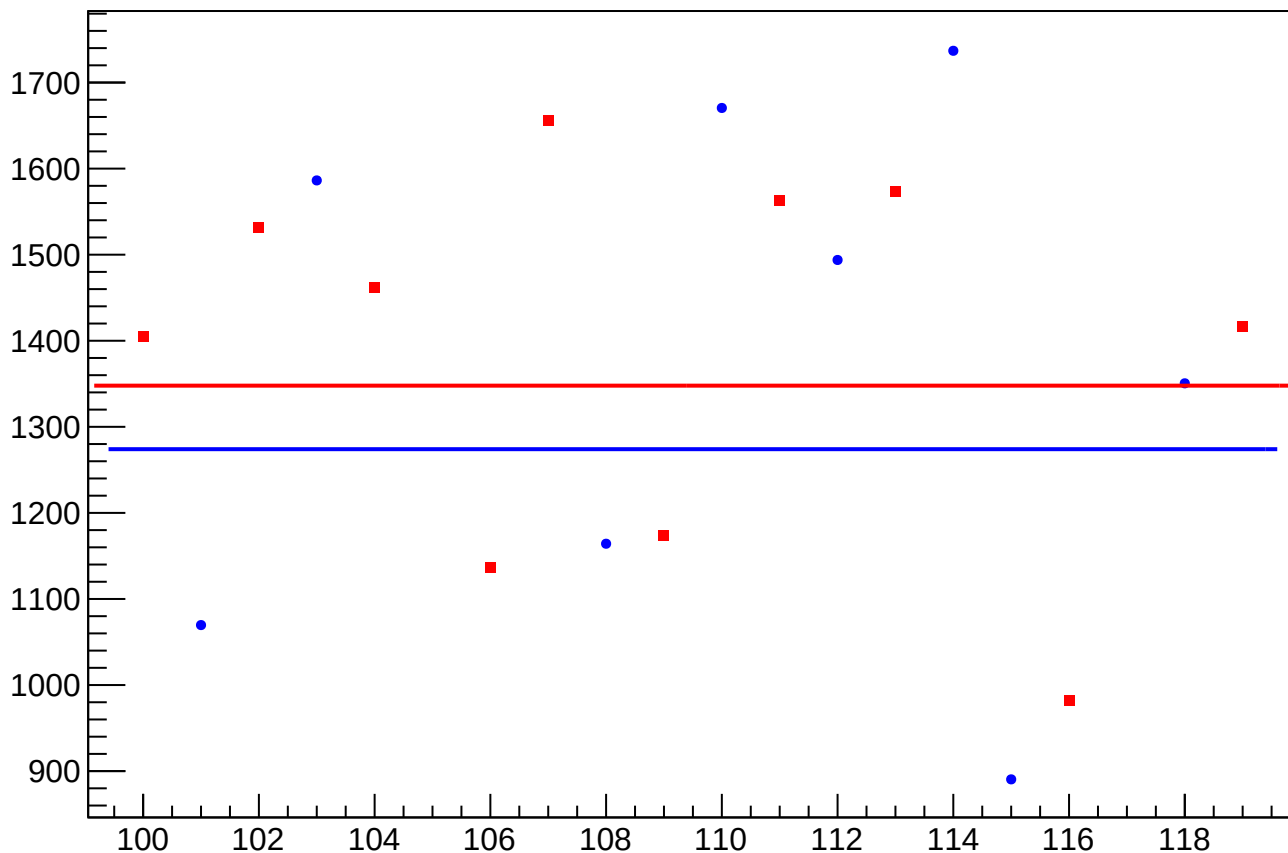
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 683.803 $\pm$ 490.985  $\chi^2$ /NDF: 22.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_dit\_correction\_rms vs Slug



Right In: 1274.028 $\pm$ 0.504  $\chi^2$ /NDF: 237603.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1347.839 $\pm$ 0.479  $\chi^2$ /NDF: 194639.6/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

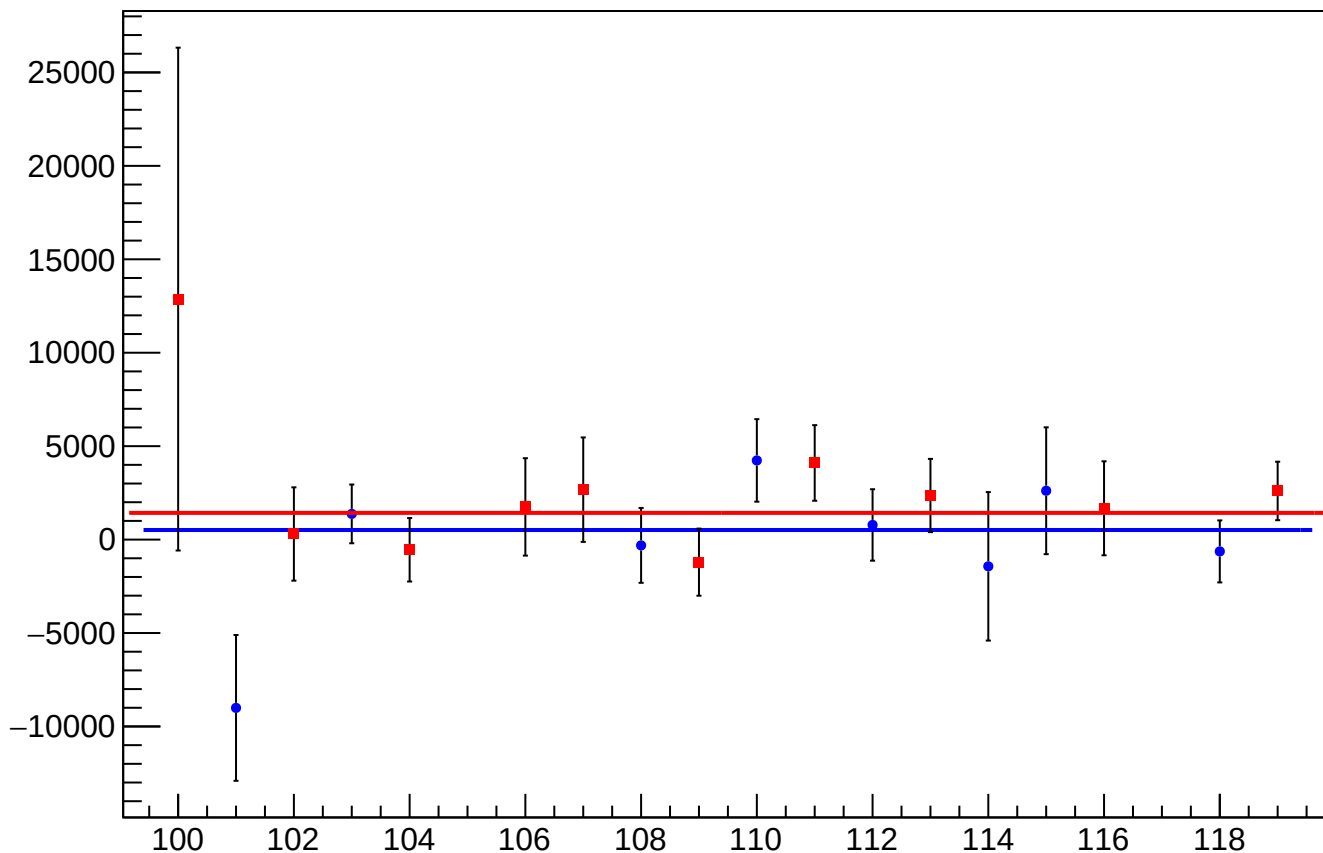
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1312.766 $\pm$ 0.347  $\chi^2$ /NDF: 443515.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



eigen\_dit\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 512.799+/-764.281  $\chi^2/\text{NDF}$ : 10.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1428.715+/-678.969  $\chi^2/\text{NDF}$ : 7.2/9

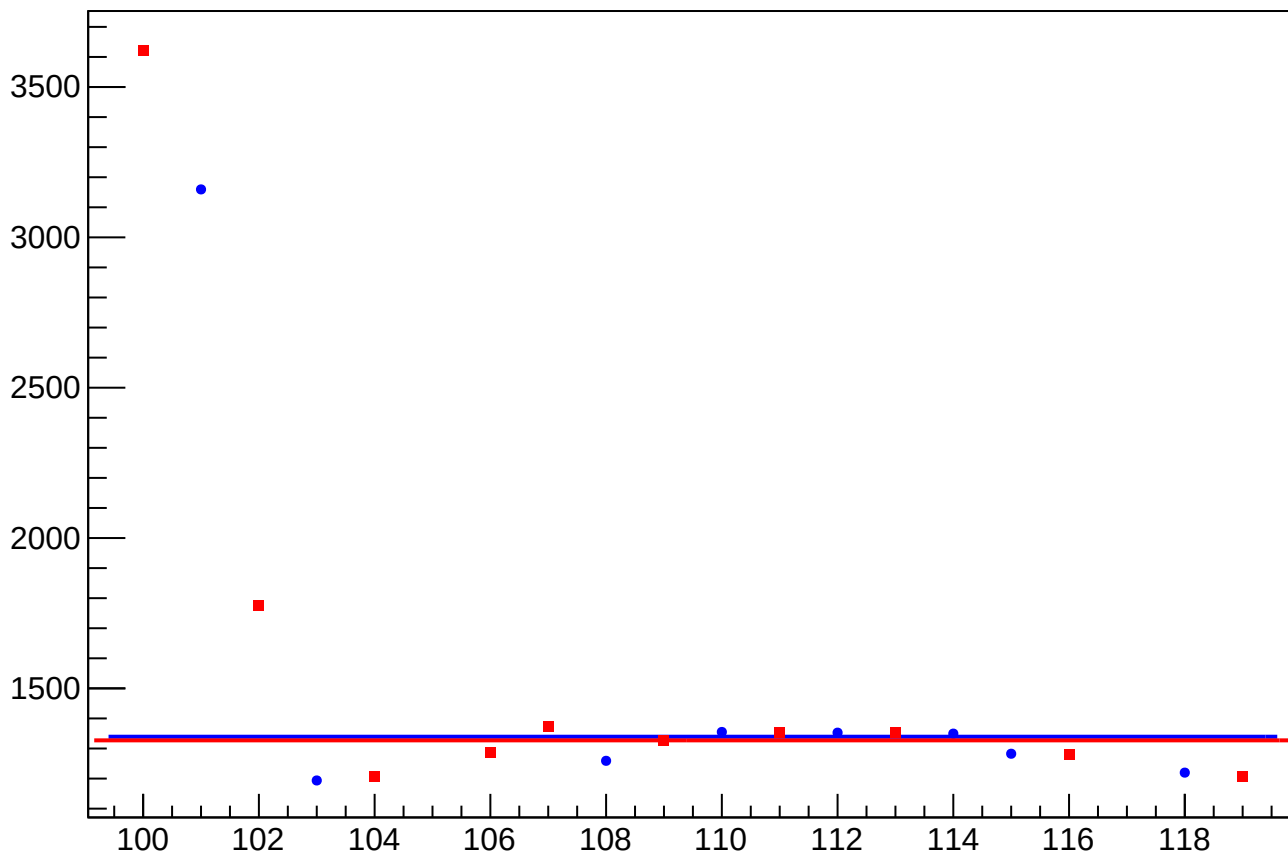
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1024.709+/-507.597  $\chi^2/\text{NDF}$ : 18.4/17

- 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: 1339.205+/-0.540  $\chi^2/\text{NDF}$ : 466868.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1327.118+/-0.480  $\chi^2/\text{NDF}$ : 146713.3/9

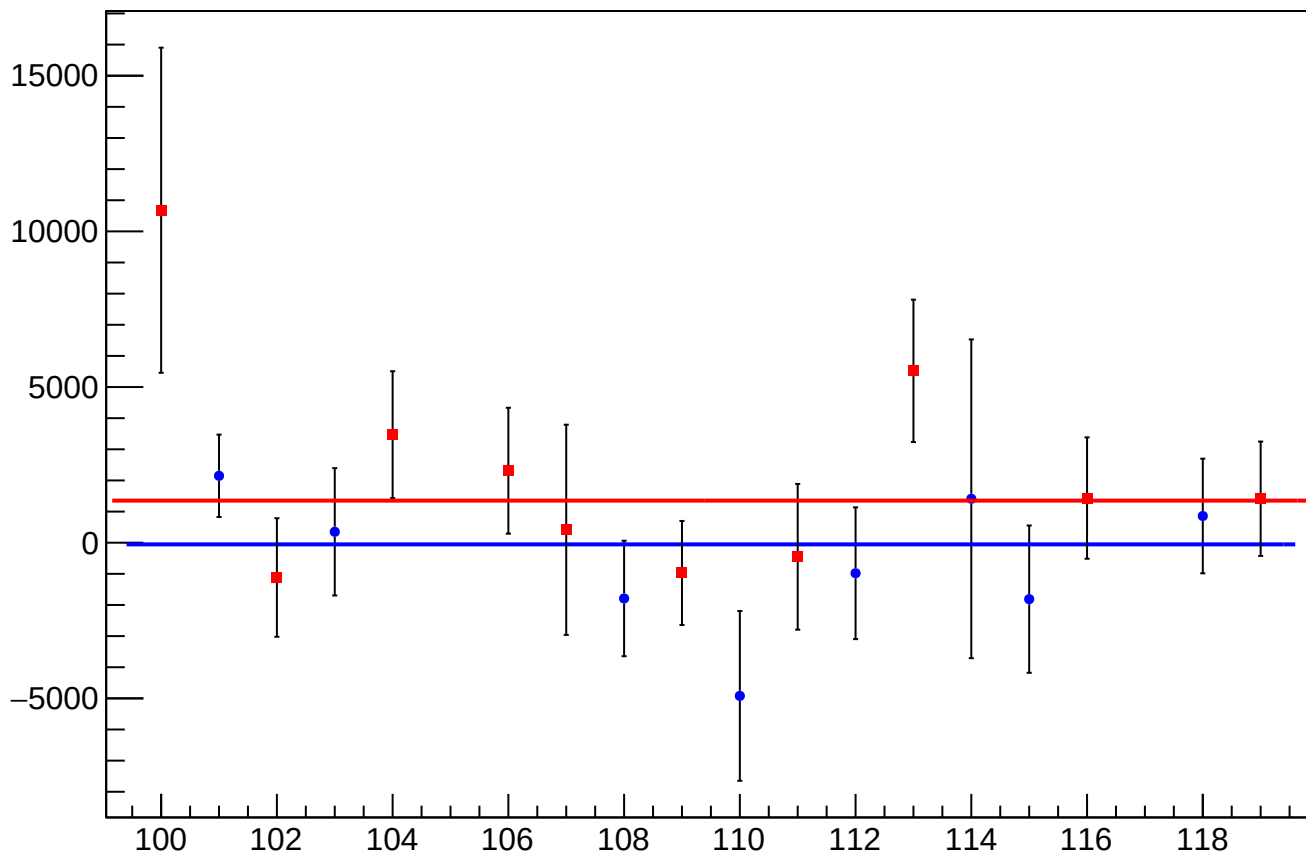
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1332.450+/-0.359  $\chi^2/\text{NDF}$ : 613861.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -53.739 $\pm$ 712.263  $\chi^2$ /NDF: 7.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1351.572 $\pm$ 677.736  $\chi^2$ /NDF: 12.1/9

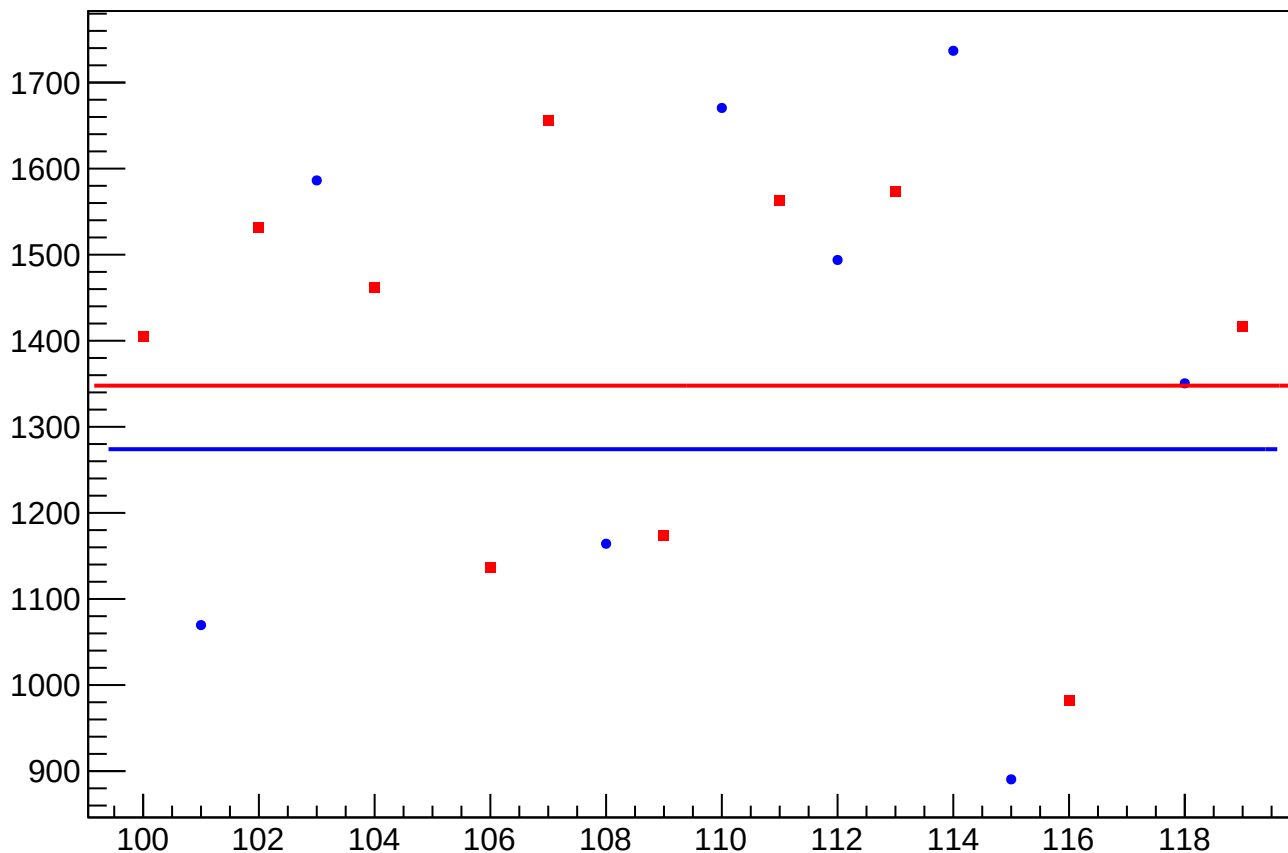
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 683.803 $\pm$ 490.984  $\chi^2$ /NDF: 22.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1274.025 $\pm$ 0.504  $\chi^2$ /NDF: 237608.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1347.840 $\pm$ 0.479  $\chi^2$ /NDF: 194638.7/9

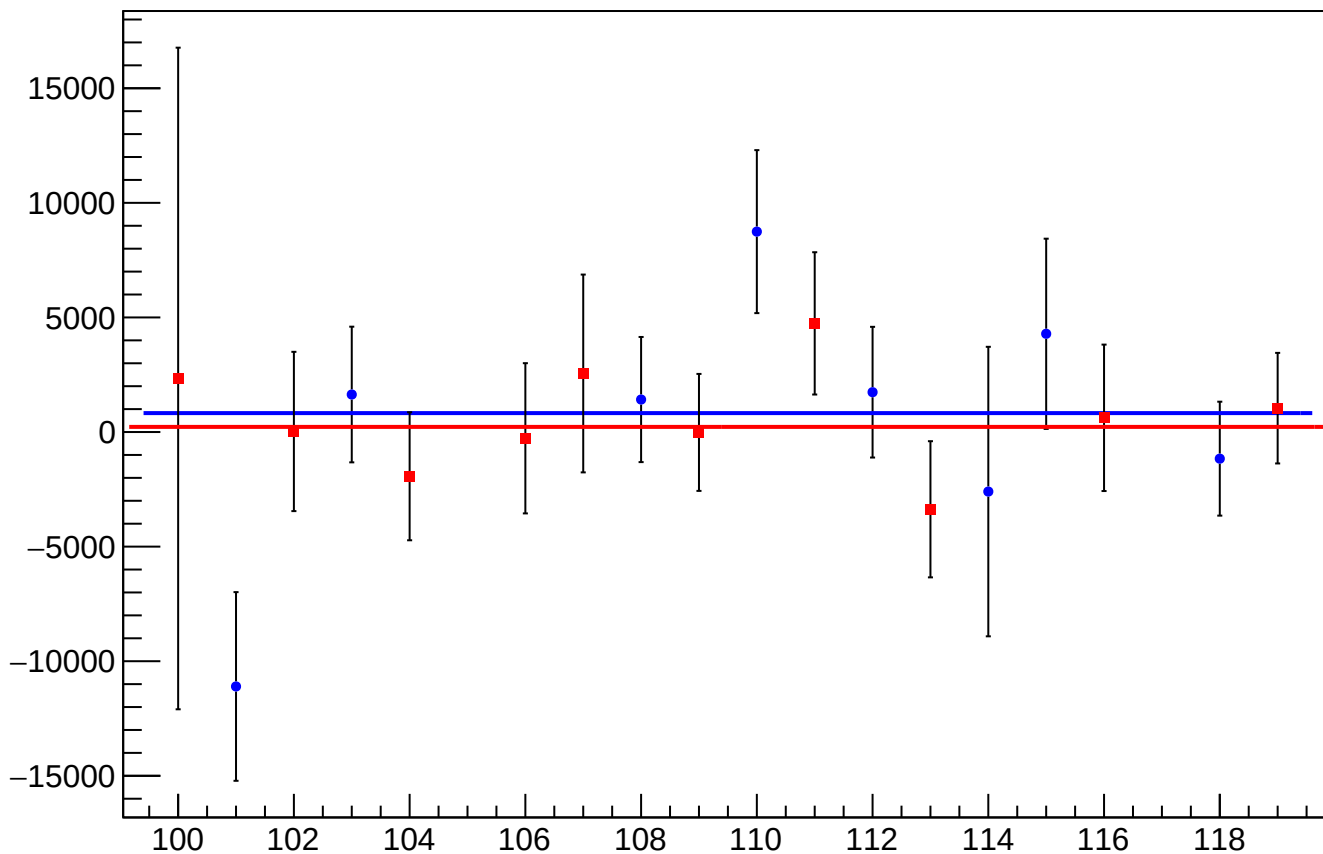
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1312.765 $\pm$ 0.347  $\chi^2$ /NDF: 443520.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 825.751+/-1151.333  $\chi^2/\text{NDF}$ : 15.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 224.083+/-998.479  $\chi^2/\text{NDF}$ : 4.7/9

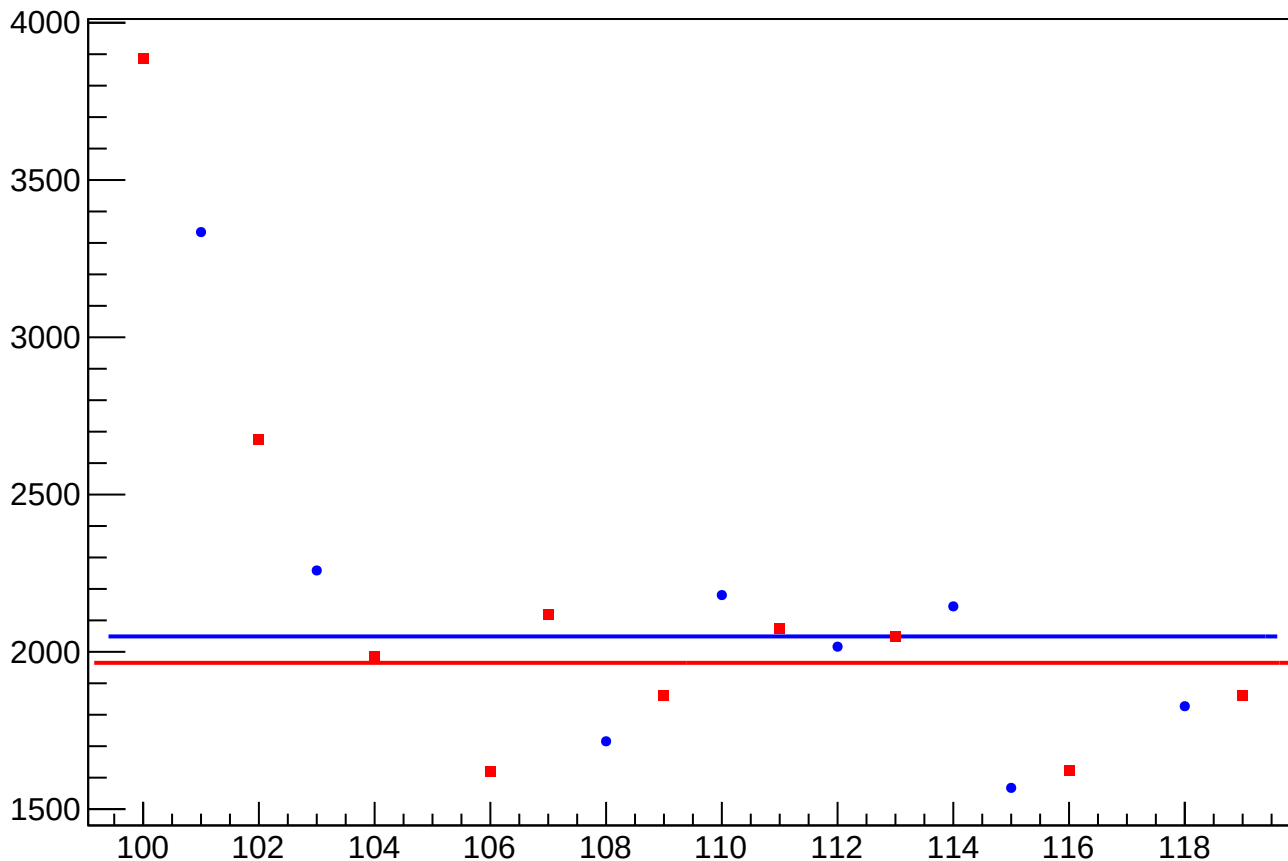
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 482.353+/-754.327  $\chi^2/\text{NDF}$ : 20.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 2048.967+/-0.814  $\chi^2/\text{NDF}$ : 281235.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1965.020+/-0.706  $\chi^2/\text{NDF}$ : 177626.6/9

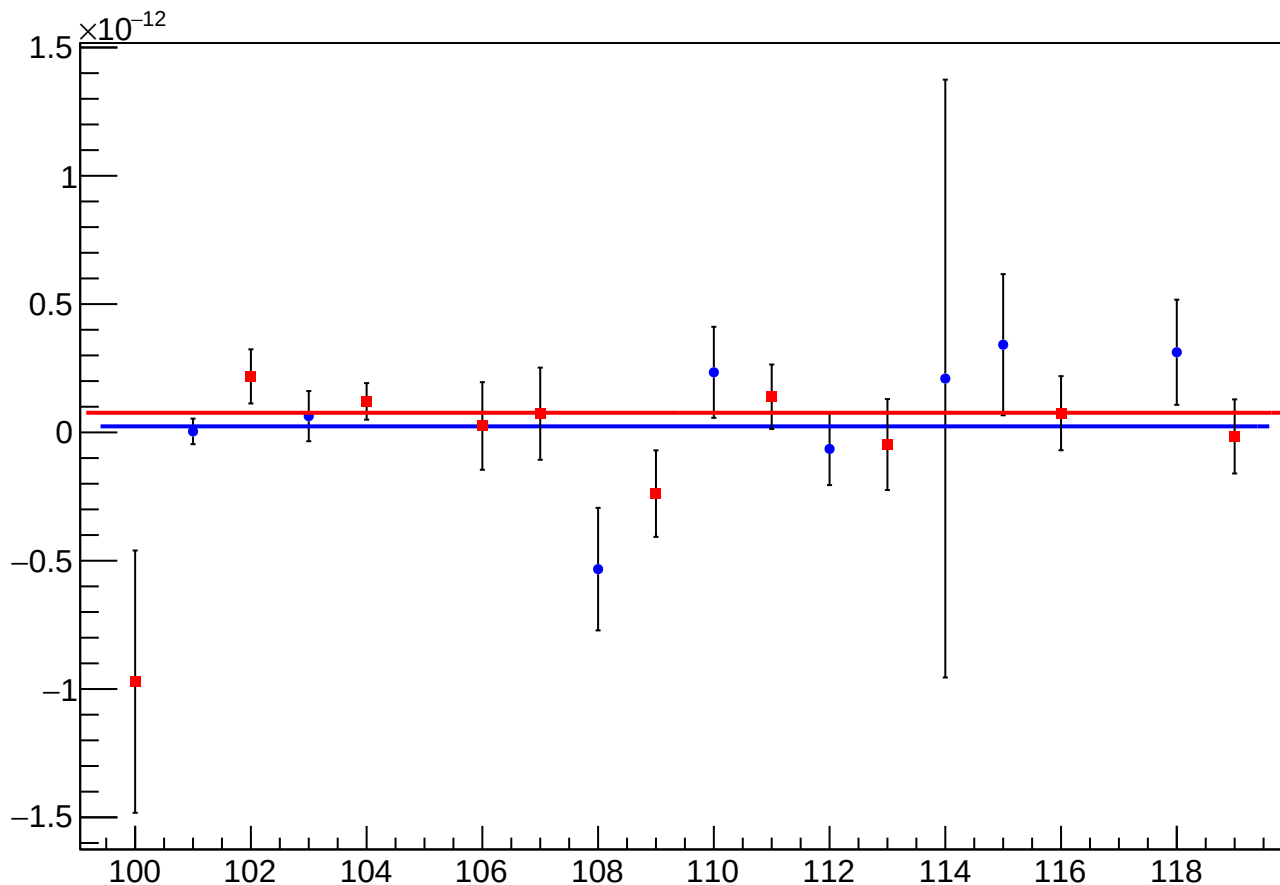
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2001.054+/-0.533  $\chi^2/\text{NDF}$ : 464931.1/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 10.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.1/9

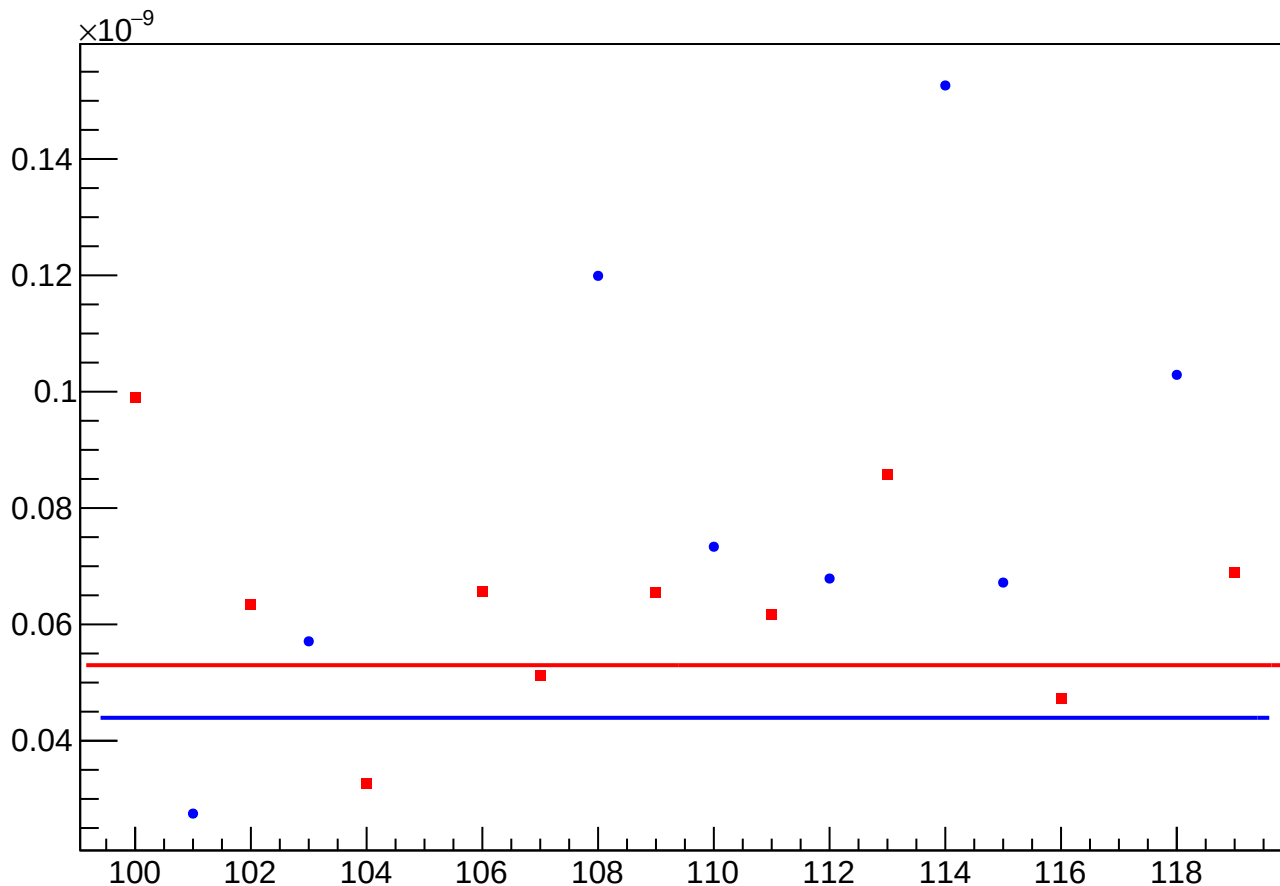
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 22.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 767066.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 327902.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

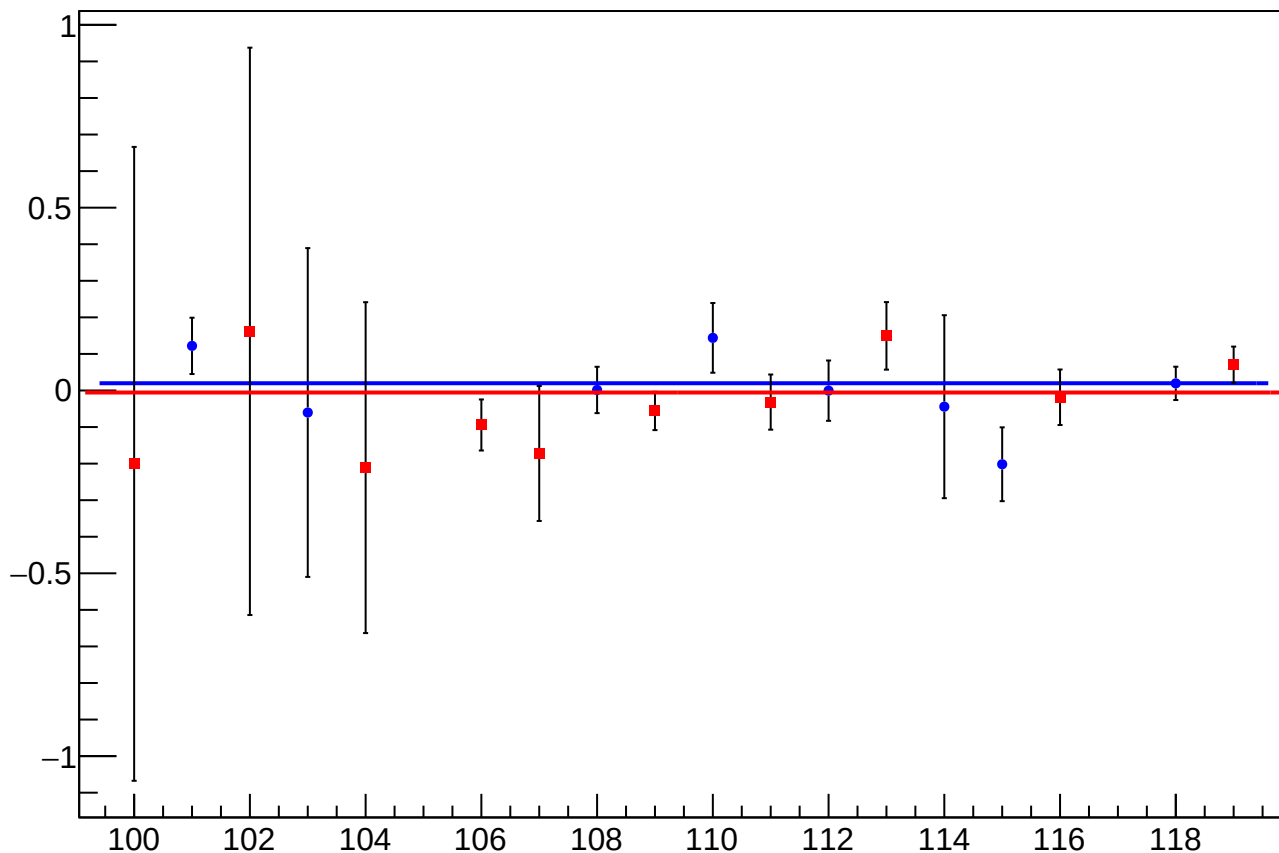
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1145037.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_at1\_dd\_at2\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.020 $\pm$ 0.028  $\chi^2$ /NDF: 8.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.006 $\pm$ 0.026  $\chi^2$ /NDF: 9.0/9

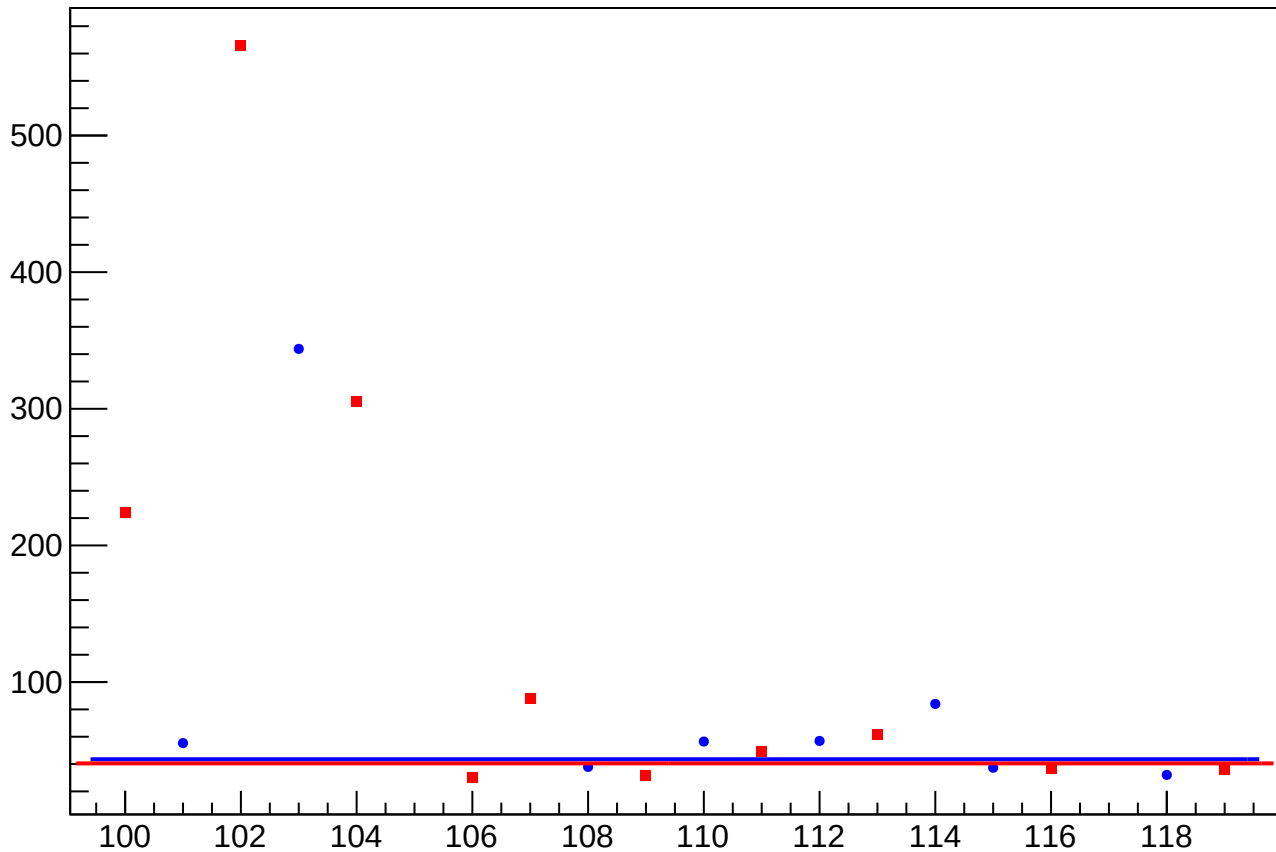
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.019  $\chi^2$ /NDF: 18.0/17

- 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: 43.519+/-0.020  $\chi^2/\text{NDF}$ : 1231025.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 40.496+/-0.018  $\chi^2/\text{NDF}$ : 2084771.8/9

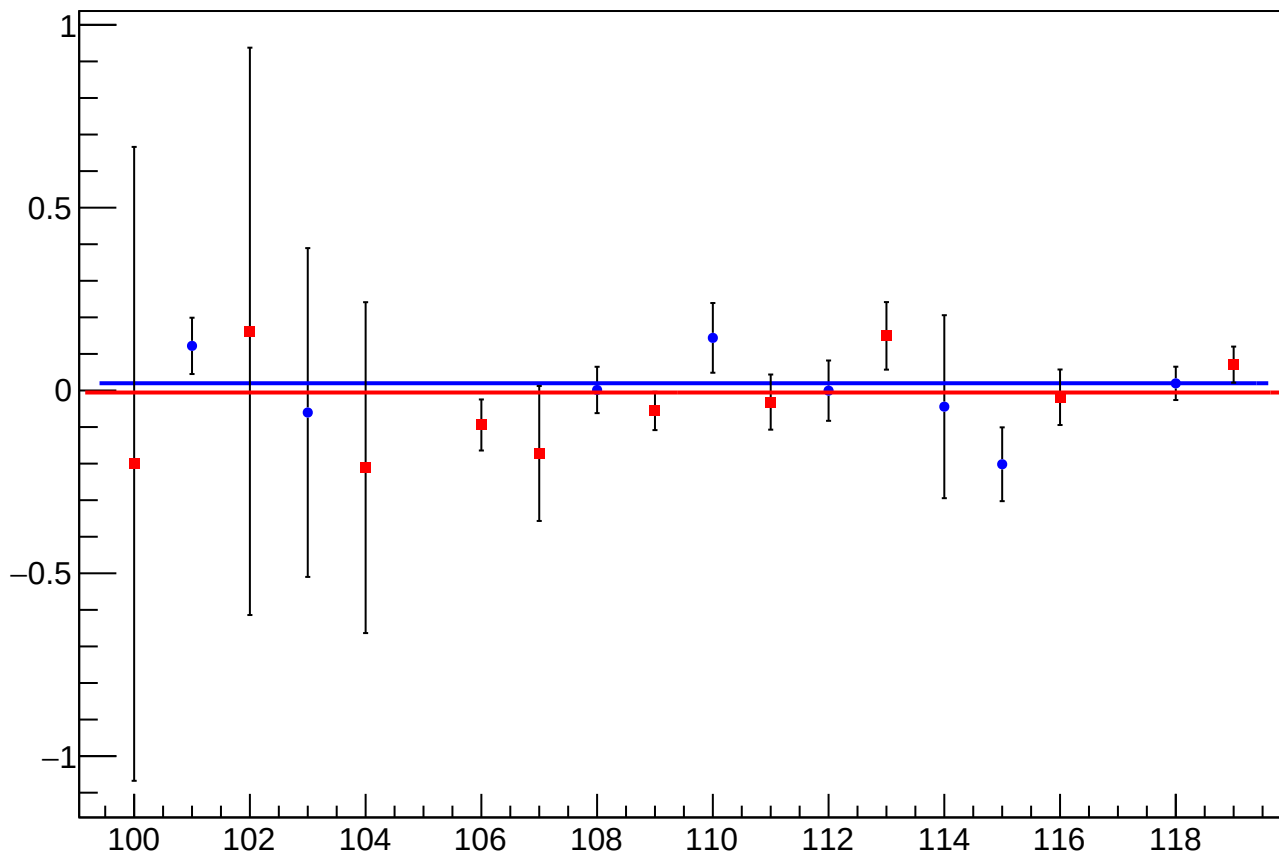
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.893+/-0.013  $\chi^2/\text{NDF}$ : 3328337.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.020 $\pm$ 0.028  $\chi^2$ /NDF: 8.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.006 $\pm$ 0.026  $\chi^2$ /NDF: 9.0/9

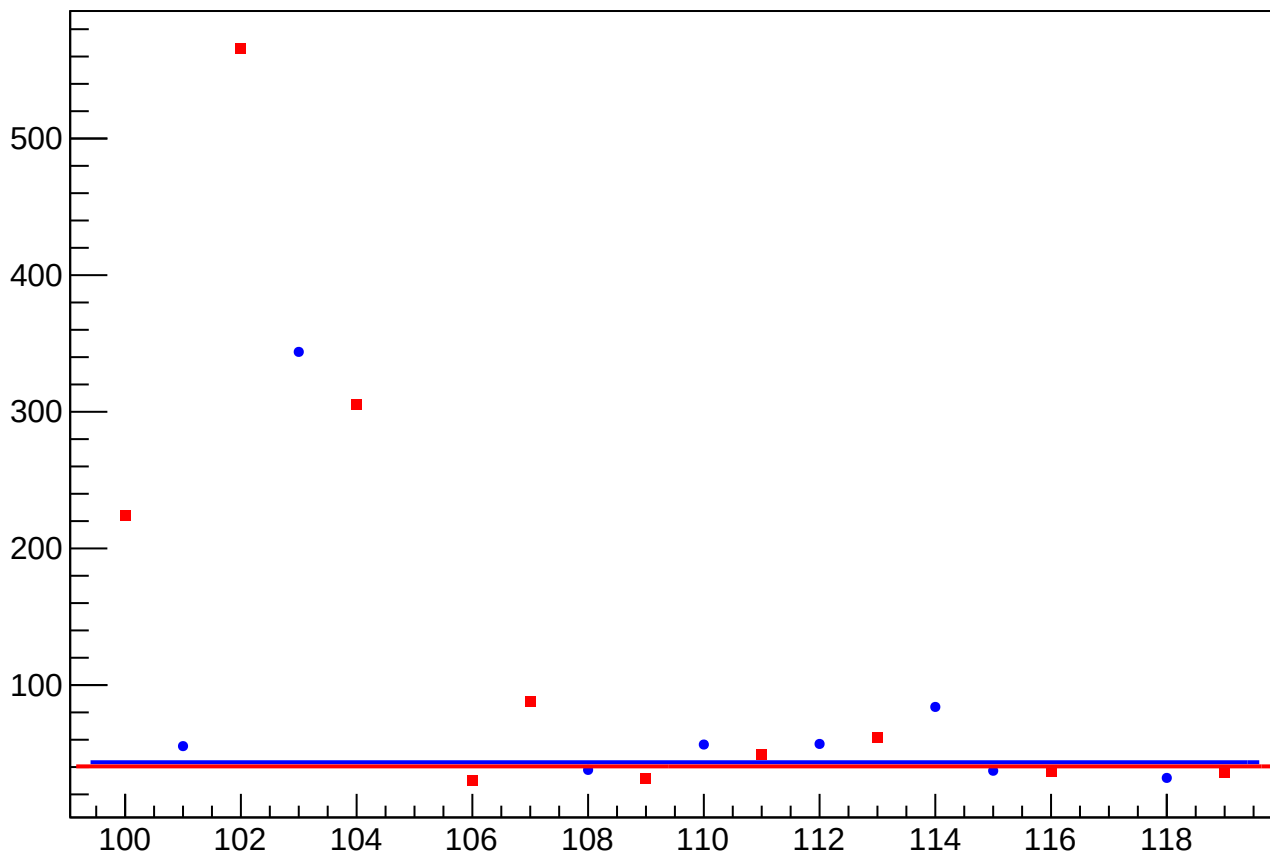
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.019  $\chi^2$ /NDF: 18.0/17

- 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: 43.519+/-0.020  $\chi^2/\text{NDF}$ : 1231025.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 40.496+/-0.018  $\chi^2/\text{NDF}$ : 2084771.8/9

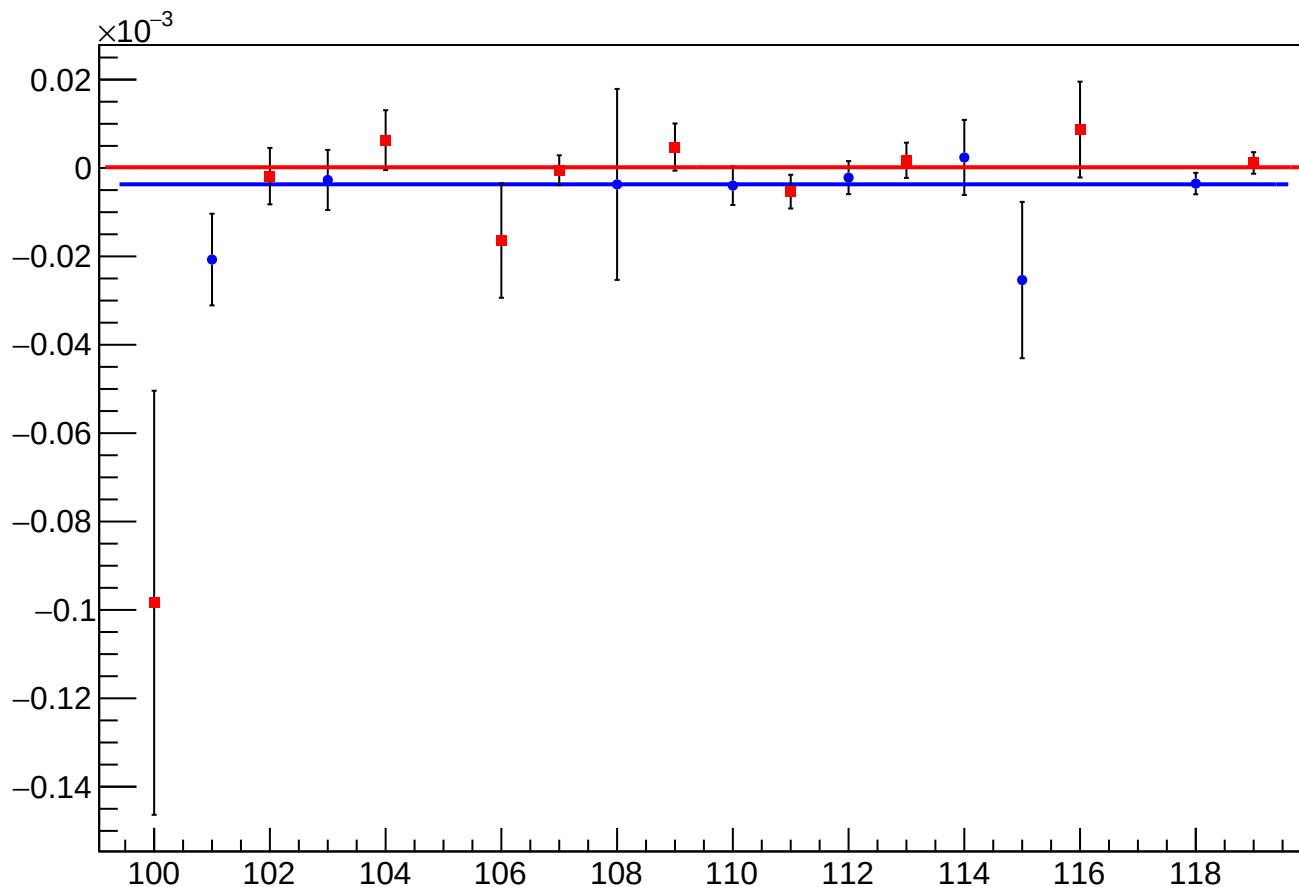
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.893+/-0.013  $\chi^2/\text{NDF}$ : 3328337.1/17

- 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  $\chi^2/\text{NDF}$ : 4.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.6/9

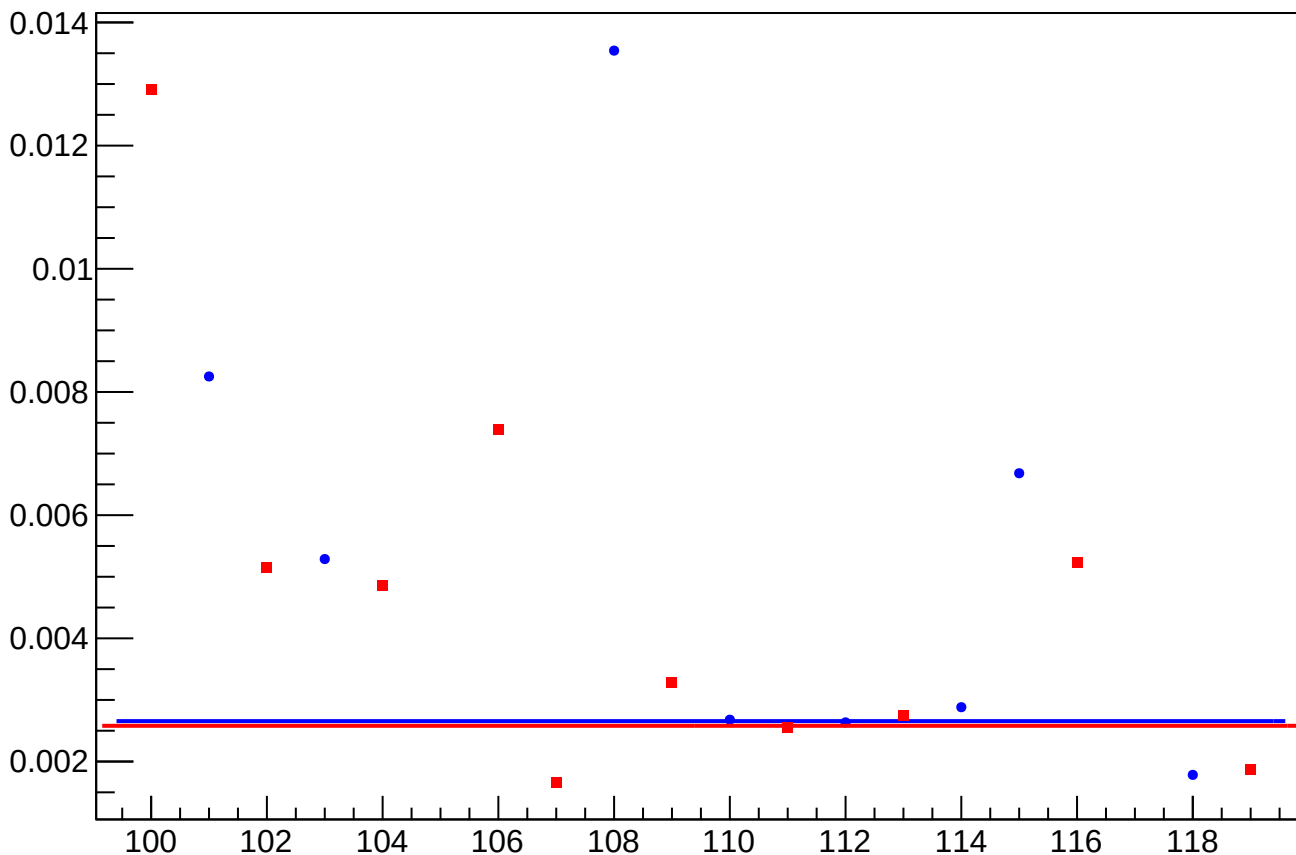
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1753494.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1395657.3/9

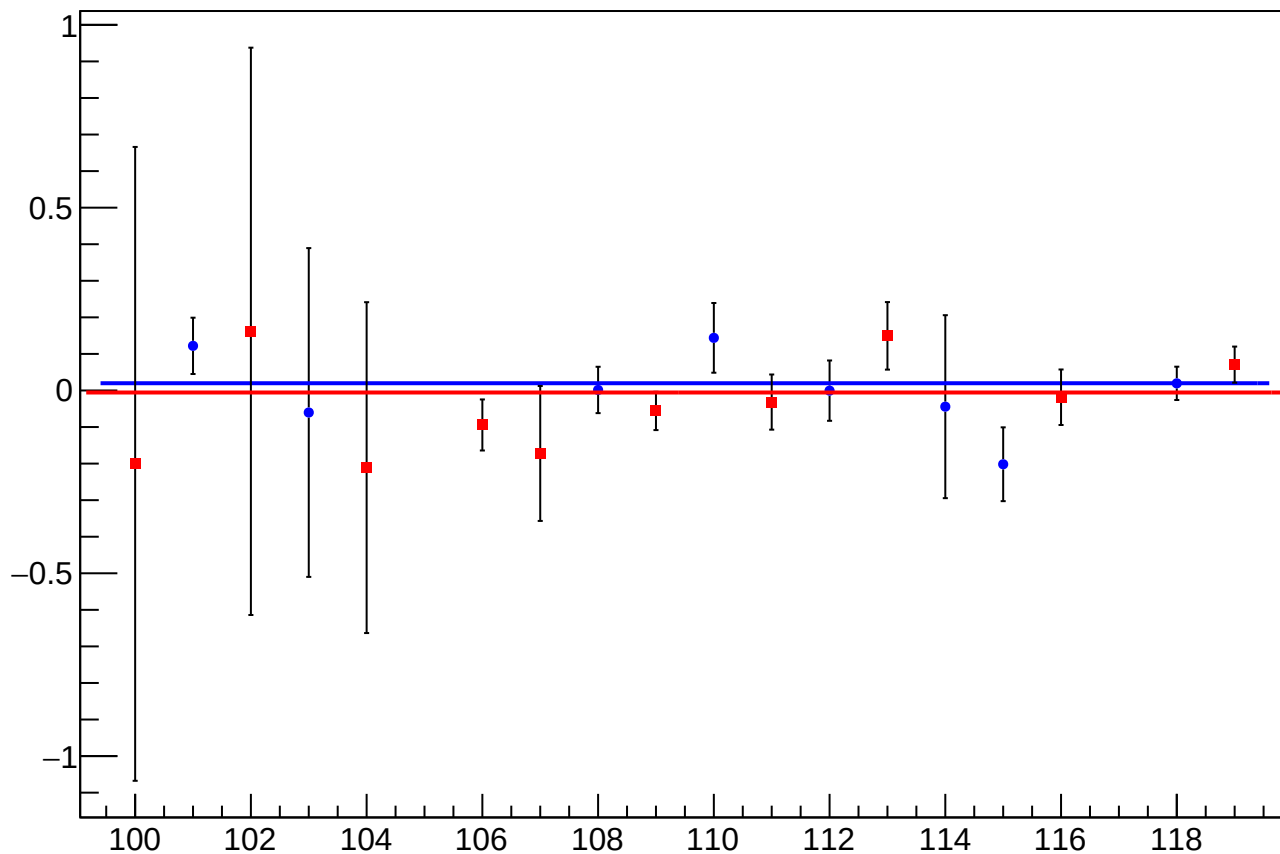
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

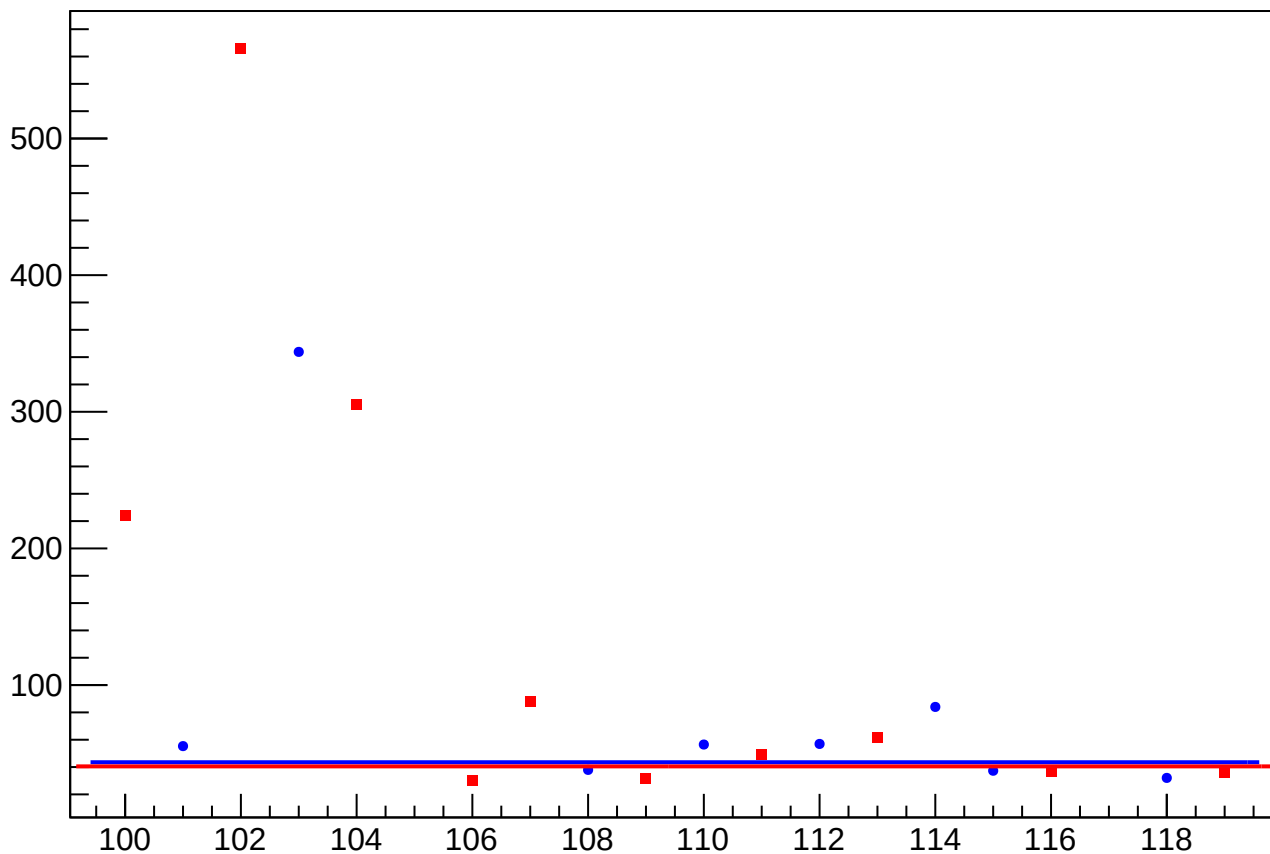
All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 3151478.8/17

- 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



asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 43.521+/-0.020  $\chi^2/\text{NDF}$ : 1231004.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 40.494+/-0.018  $\chi^2/\text{NDF}$ : 2084814.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

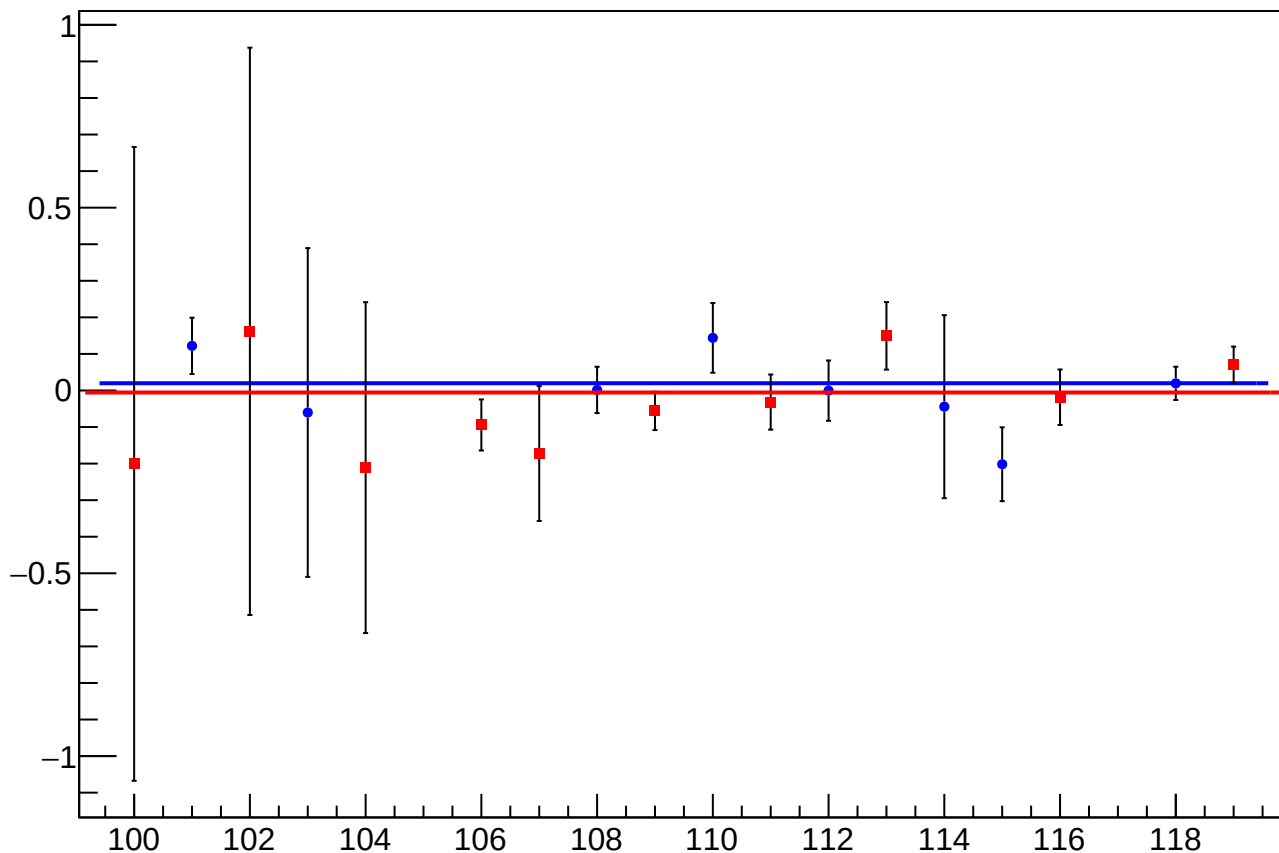
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.894+/-0.013  $\chi^2/\text{NDF}$ : 3328384.8/17

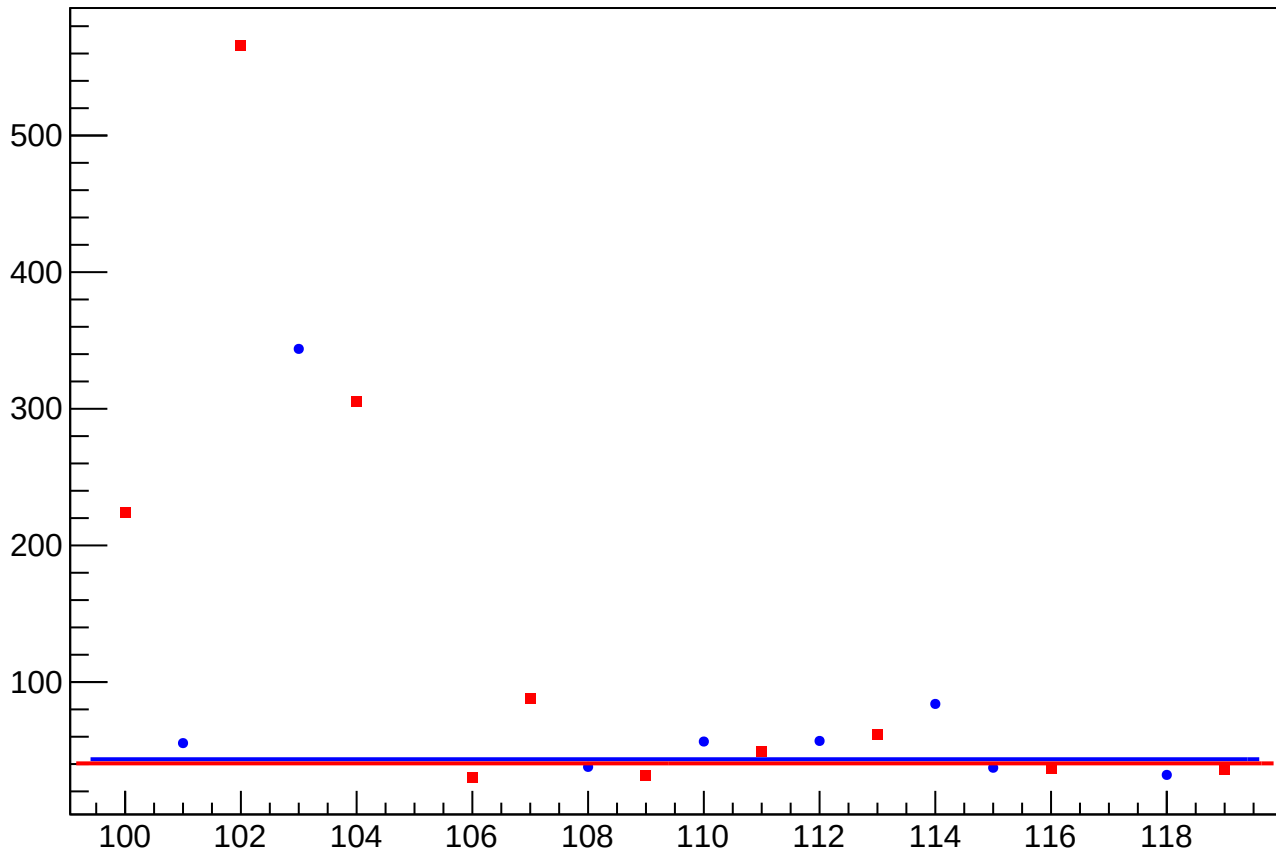
- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 43.521+/-0.020  $\chi^2/\text{NDF}$ : 1231004.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 40.494+/-0.018  $\chi^2/\text{NDF}$ : 2084814.6/9

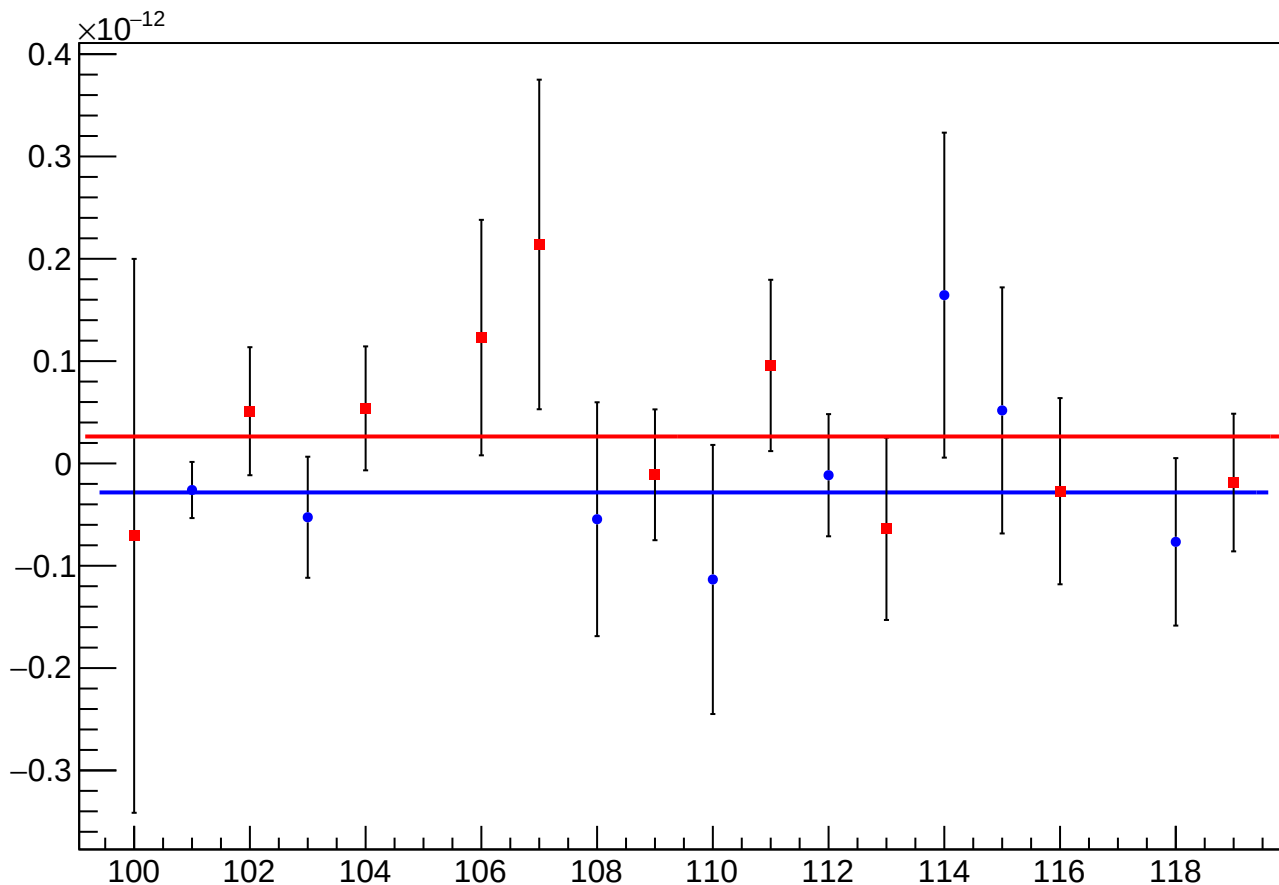
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.894+/-0.013  $\chi^2/\text{NDF}$ : 3328384.8/17

- 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  $\chi^2/\text{NDF}$ : 3.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.4/9

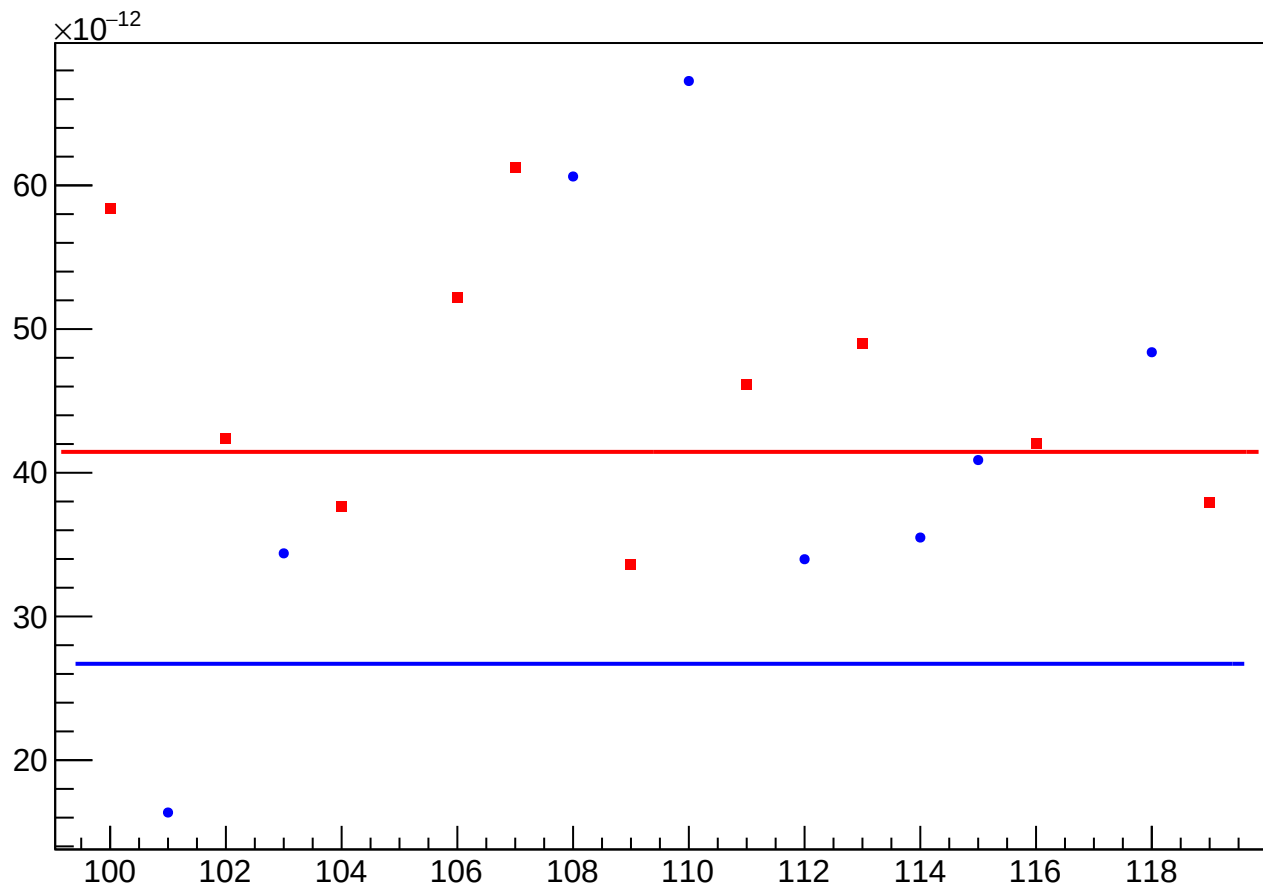
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 888748.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 120156.2/9

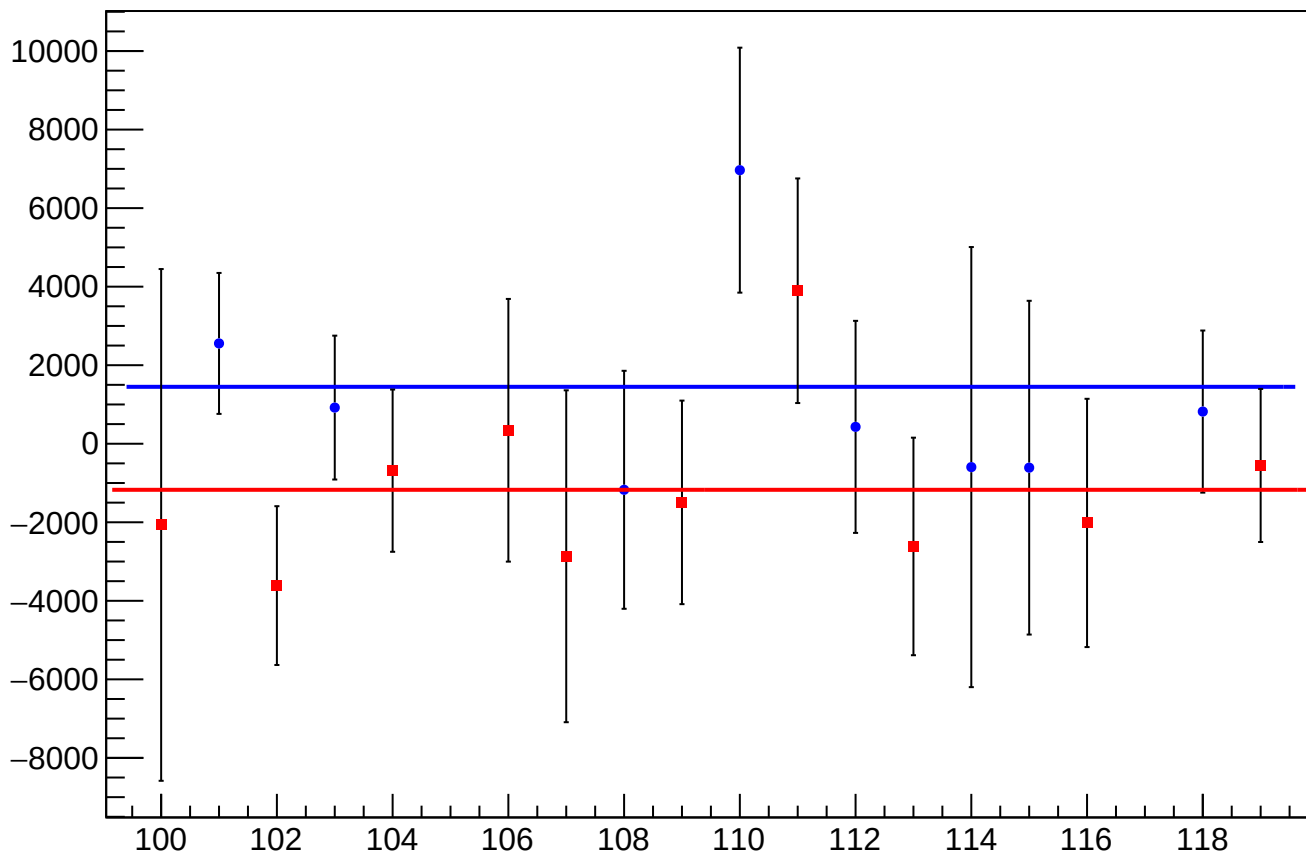
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1404736.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 1449.472+/-884.112  $\chi^2/\text{NDF}$ : 4.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1173.088+/-841.362  $\chi^2/\text{NDF}$ : 5.5/9

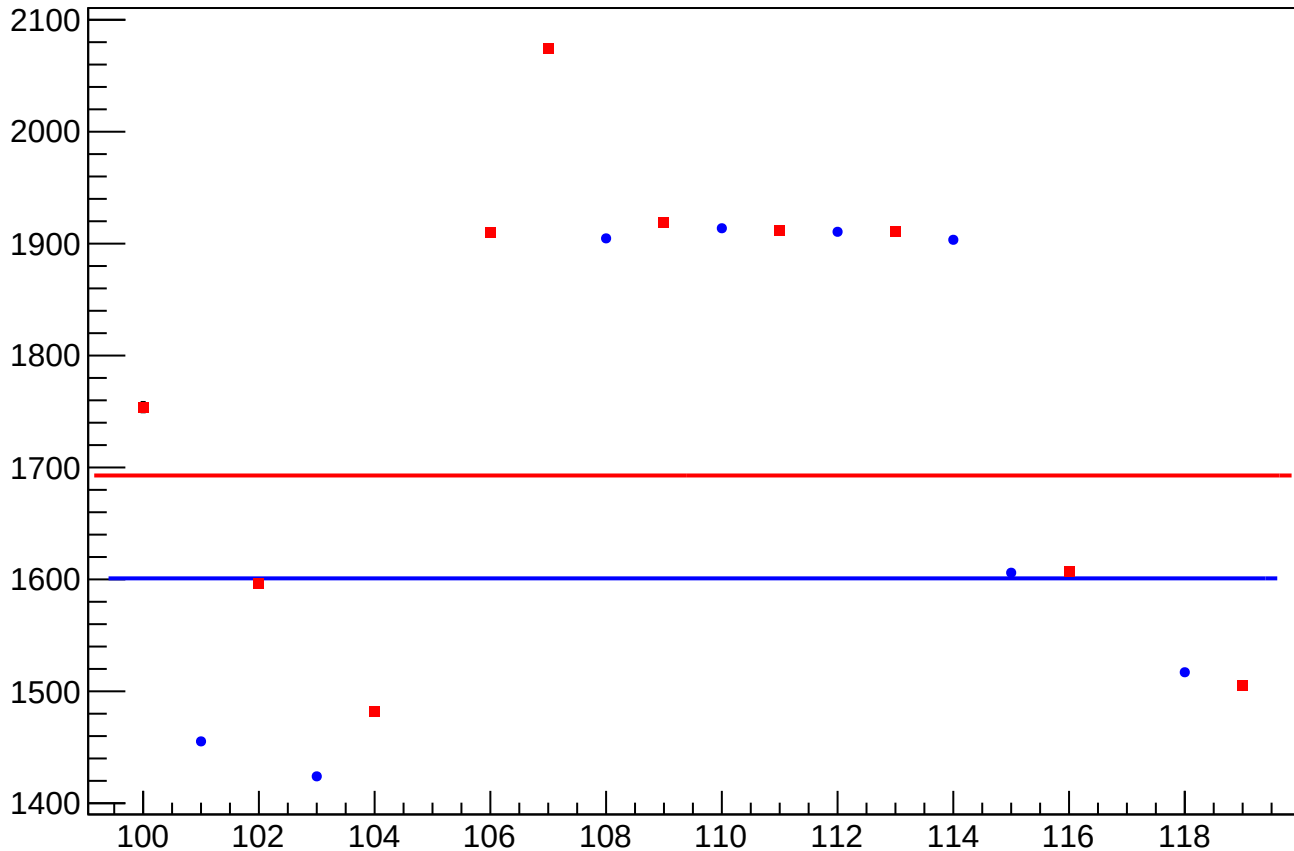
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 73.257+/-609.486  $\chi^2/\text{NDF}$ : 15.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1600.923+/-0.625  $\chi^2/\text{NDF}$ : 107488.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1692.843+/-0.595  $\chi^2/\text{NDF}$ : 109747.9/9

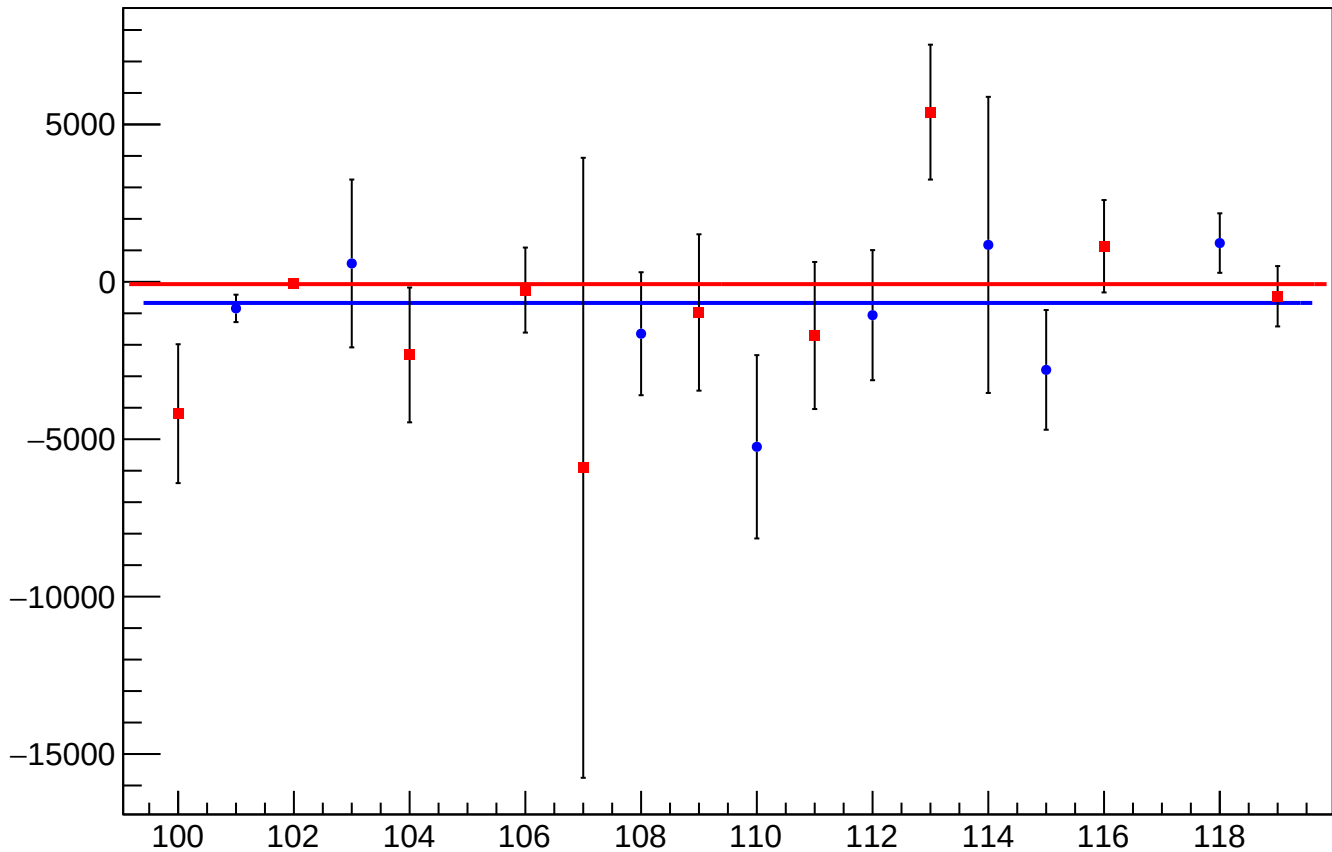
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1649.159+/-0.431  $\chi^2/\text{NDF}$ : 228580.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_avg\_reg\_correction\_mean vs Slug



Right In: -670.318+/-365.855  $\chi^2$ /NDF: 8.6/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -72.781+/-133.860  $\chi^2$ /NDF: 12.9/9

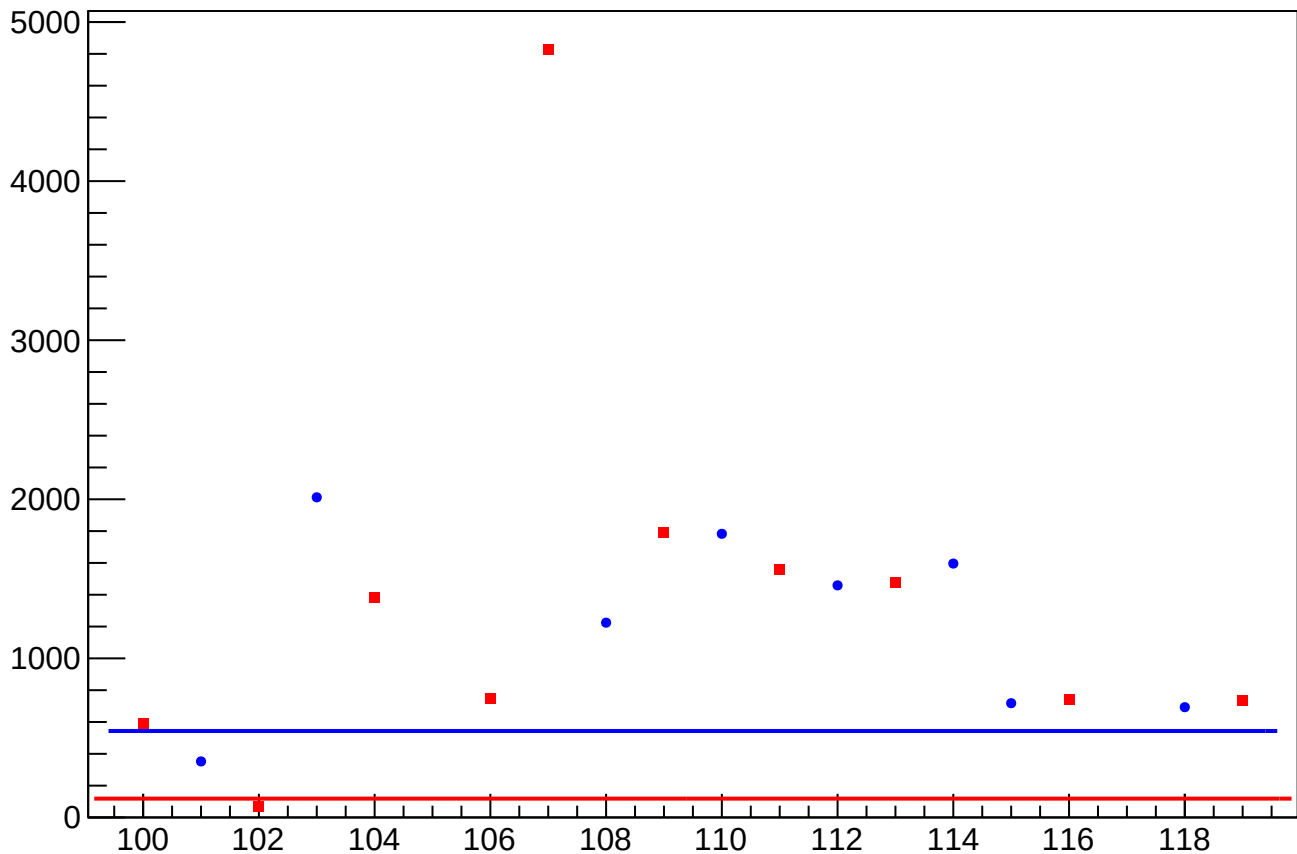
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -143.330+/-125.710  $\chi^2$ /NDF: 23.9/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_avg\_reg\_correction\_rms vs Slug



Right In: 543.509+/-0.259  $\chi^2/\text{NDF}$ : 2158108.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 118.429+/-0.095  $\chi^2/\text{NDF}$ : 5589189.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

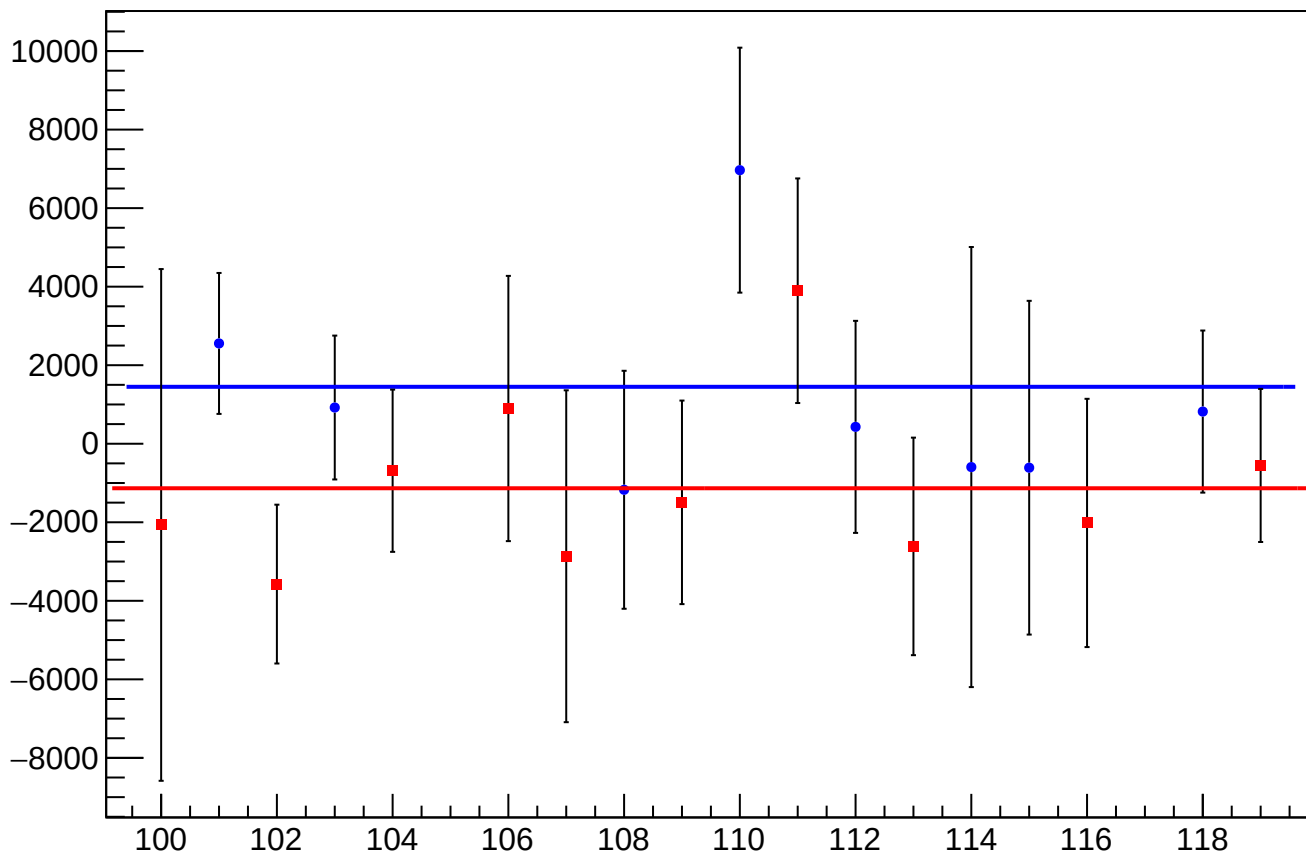
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 168.616+/-0.089  $\chi^2/\text{NDF}$ : 10128470.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 1449.827+/-884.112  $\chi^2/\text{NDF}$ : 4.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1133.764+/-841.889  $\chi^2/\text{NDF}$ : 5.6/9

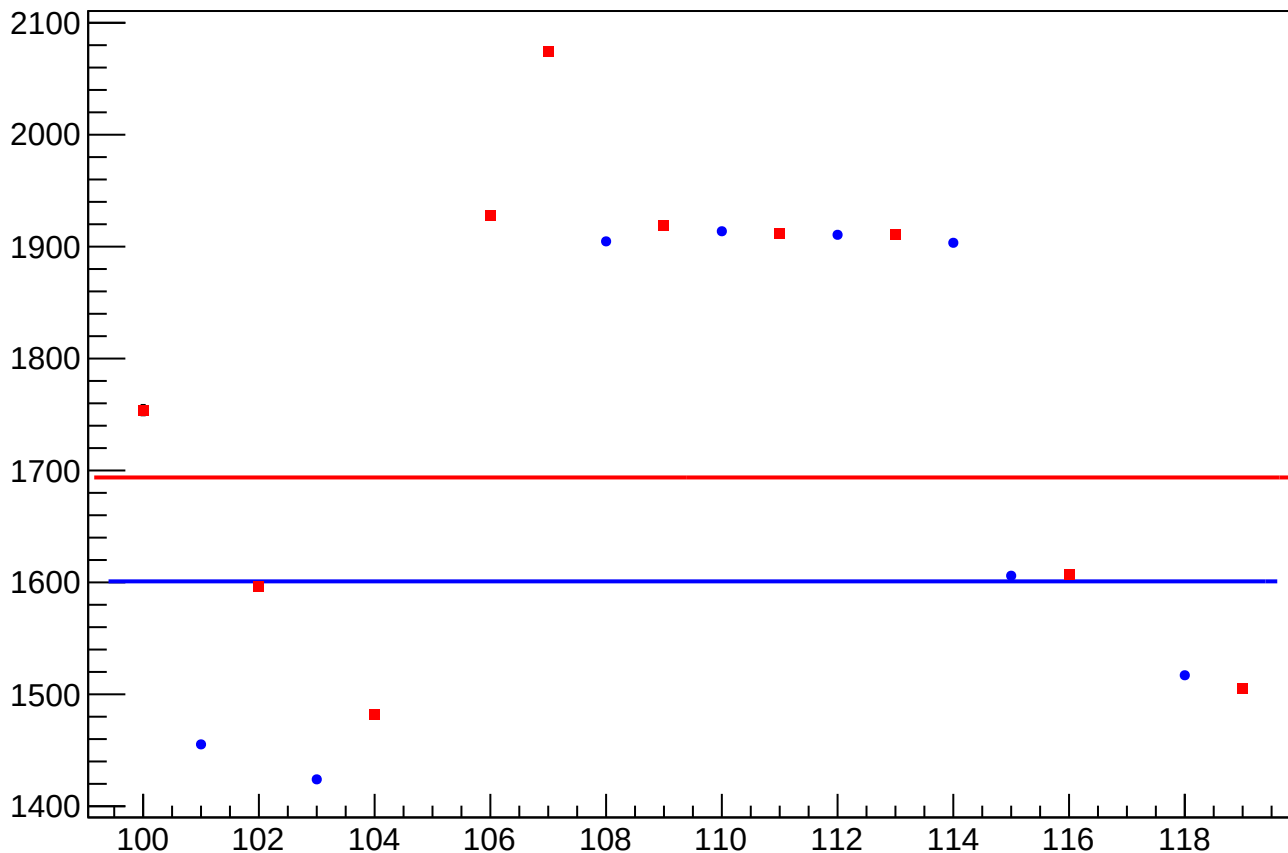
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.868+/-609.686  $\chi^2/\text{NDF}$ : 15.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1600.923+/-0.625  $\chi^2/\text{NDF}$ : 107488.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1693.759+/-0.595  $\chi^2/\text{NDF}$ : 111019.2/9

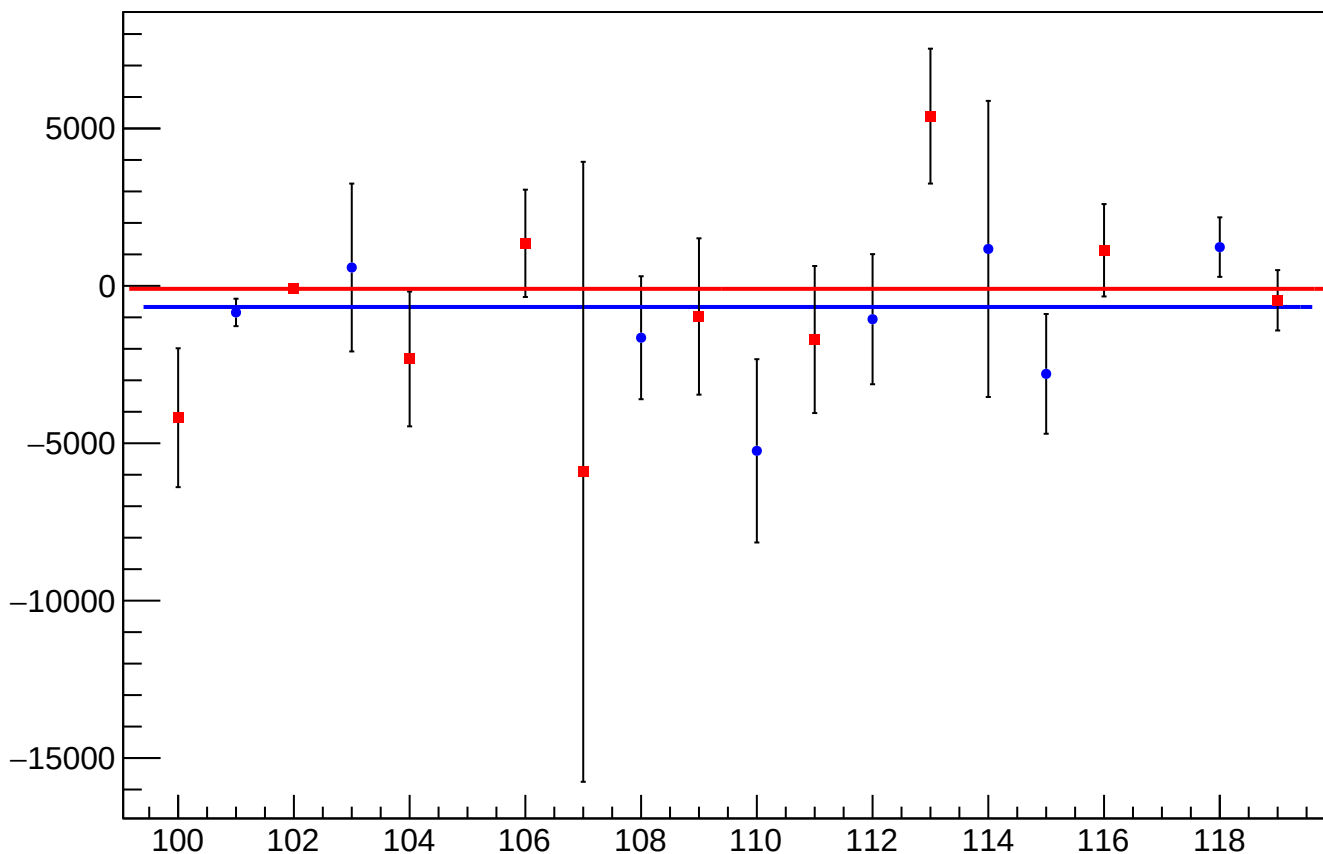
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1649.611+/-0.431  $\chi^2/\text{NDF}$ : 230072.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_cor\_correction\_mean vs Slug



Right In: -670.331+/-365.853  $\chi^2/\text{NDF}$ : 8.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -93.964+/-146.033  $\chi^2/\text{NDF}$ : 13.6/9

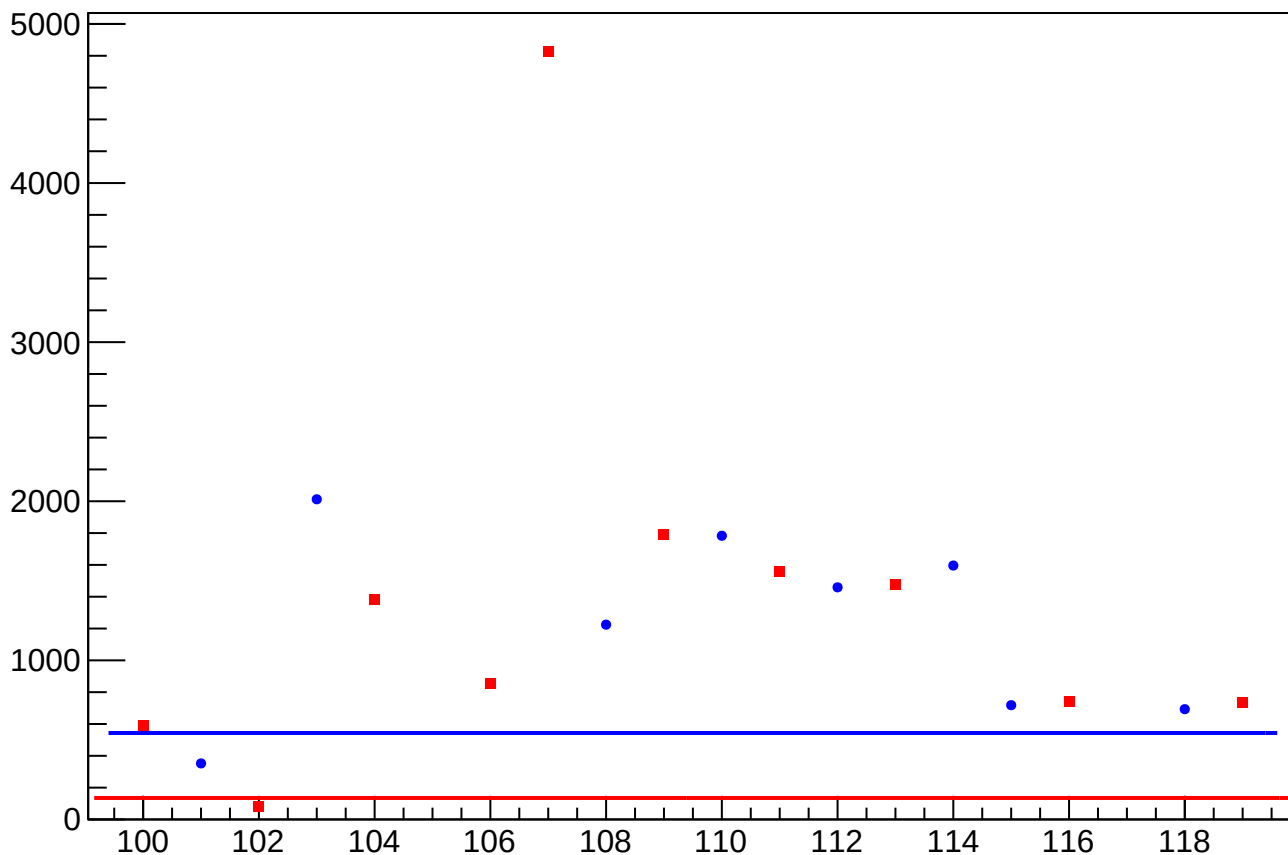
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -173.175+/-135.628  $\chi^2/\text{NDF}$ : 24.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_avg\_cor\_correction\_rms vs Slug



Right In: 543.504+/-0.259  $\chi^2/\text{NDF}$ : 2158117.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 135.011+/-0.103  $\chi^2/\text{NDF}$ : 5382110.3/9

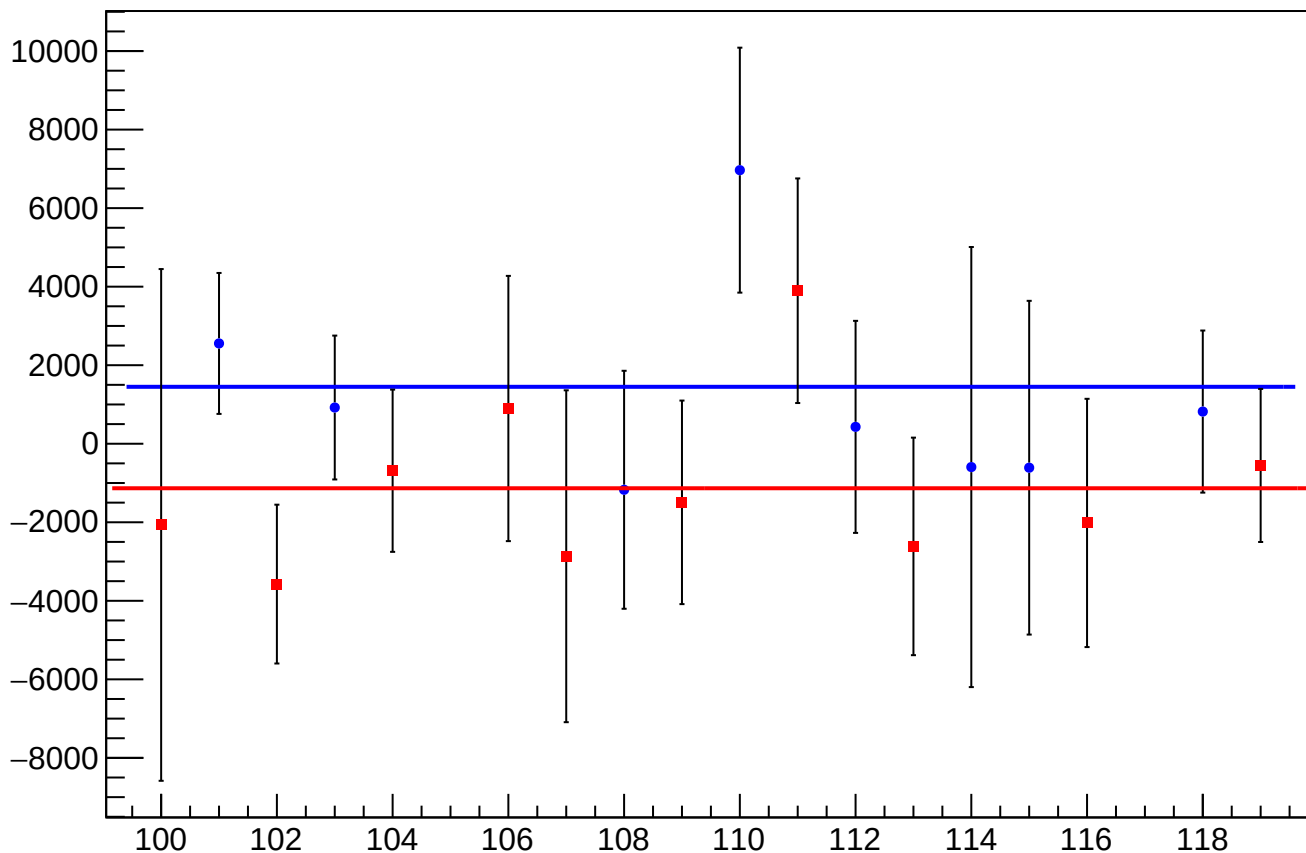
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 191.151+/-0.096  $\chi^2/\text{NDF}$ : 9690928.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 1449.827+/-884.112  $\chi^2/\text{NDF}$ : 4.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1133.764+/-841.889  $\chi^2/\text{NDF}$ : 5.6/9

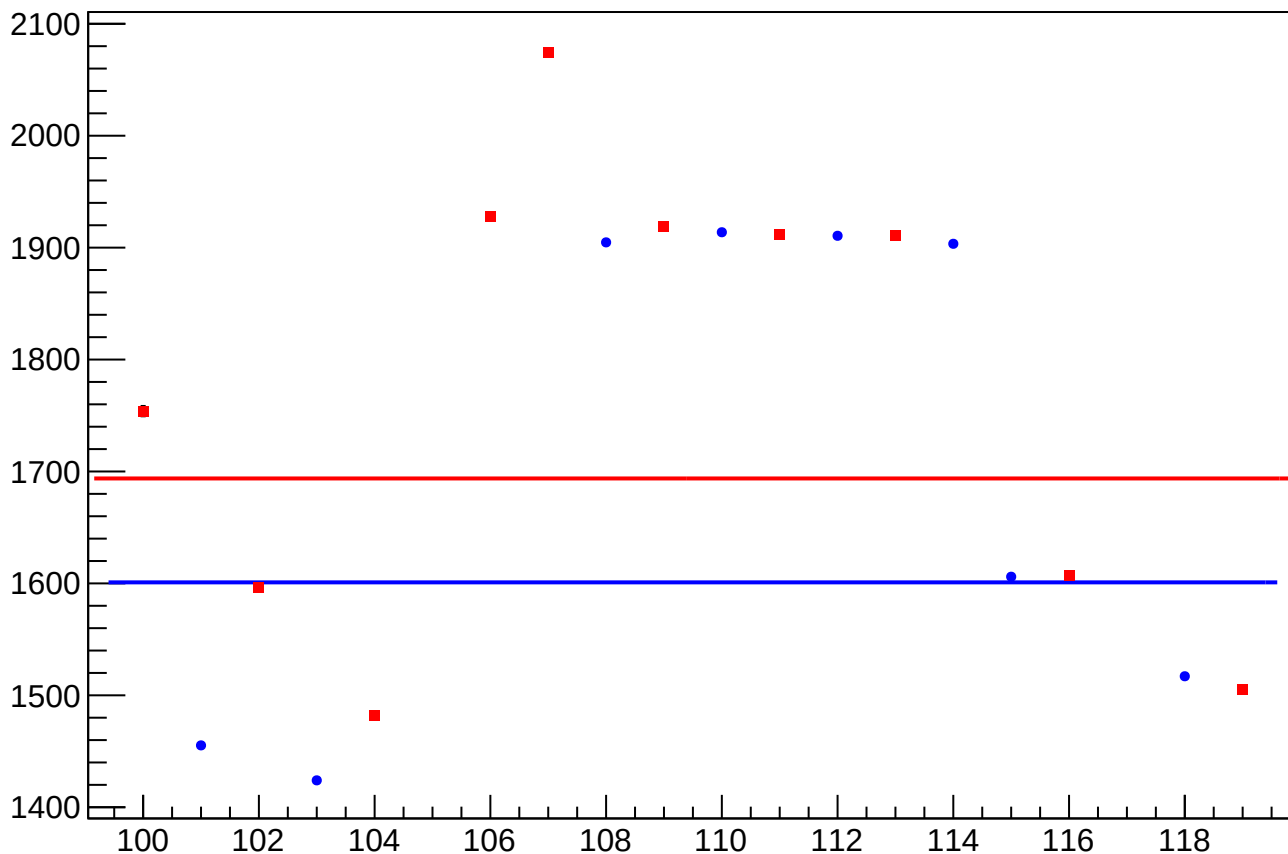
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.868+/-609.686  $\chi^2/\text{NDF}$ : 15.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1600.923+/-0.625  $\chi^2/\text{NDF}$ : 107488.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1693.759+/-0.595  $\chi^2/\text{NDF}$ : 111019.2/9

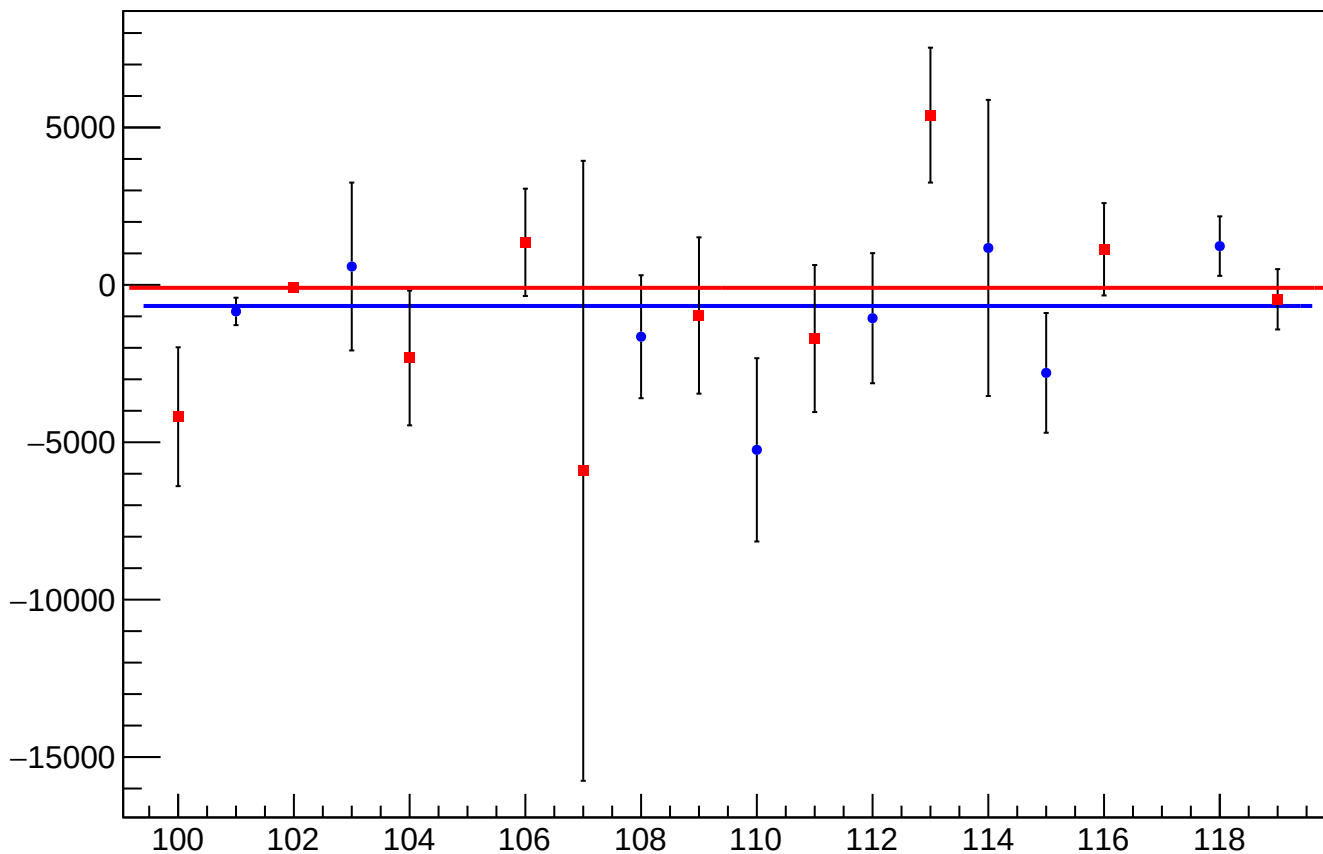
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1649.611+/-0.431  $\chi^2/\text{NDF}$ : 230072.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -670.331+/-365.853  $\chi^2$ /NDF: 8.6/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -93.964+/-146.033  $\chi^2$ /NDF: 13.6/9

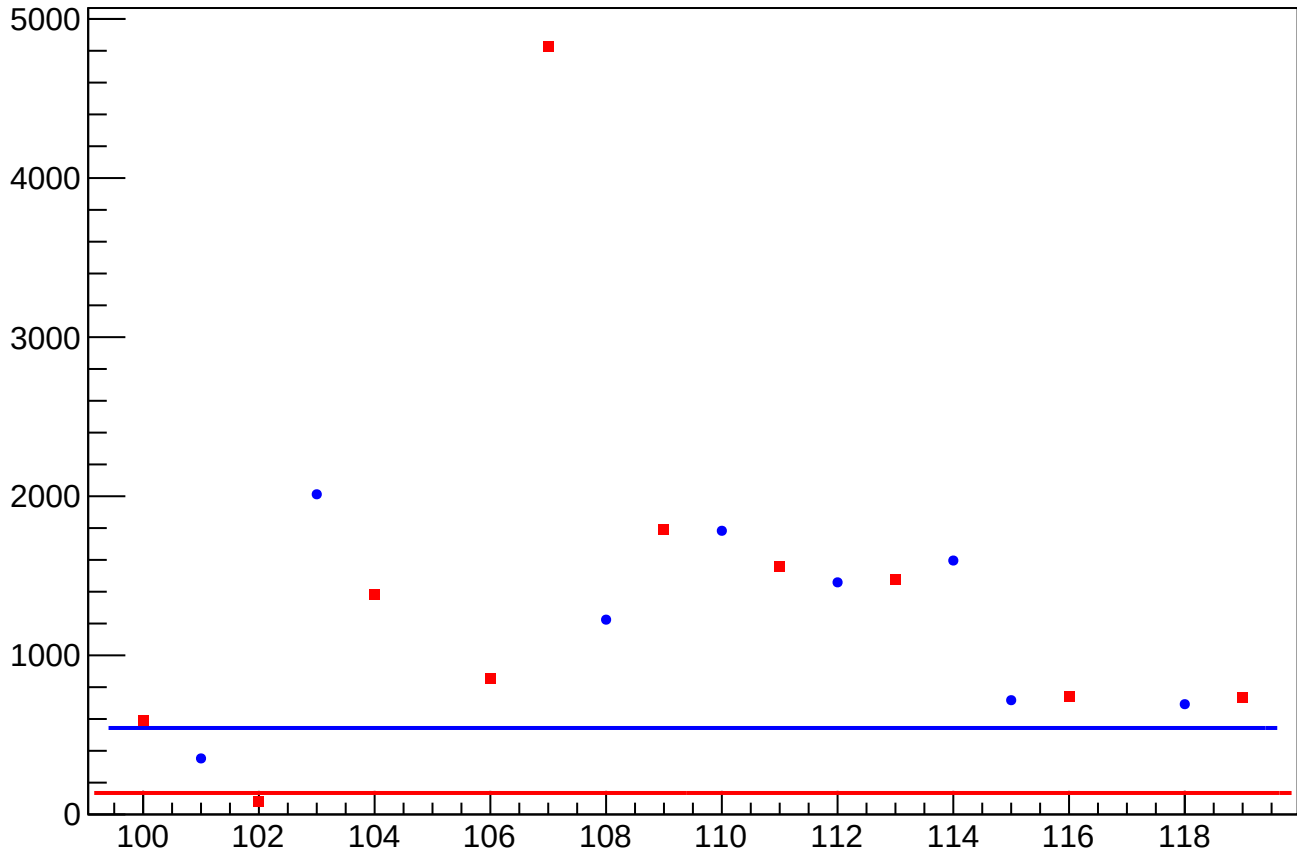
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -173.175+/-135.628  $\chi^2$ /NDF: 24.3/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 543.504+/-0.259  $\chi^2/\text{NDF}$ : 2158117.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 135.011+/-0.103  $\chi^2/\text{NDF}$ : 5382110.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

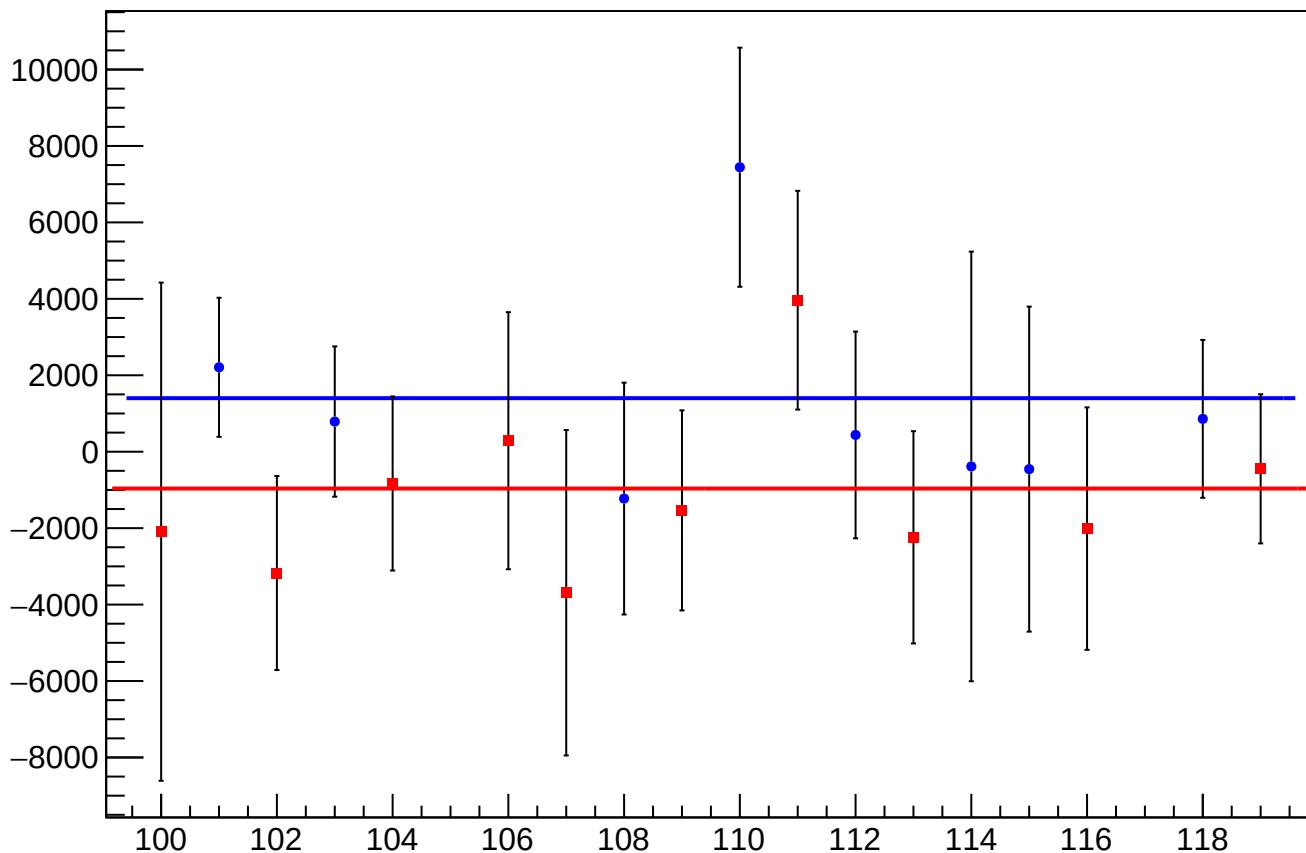
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 191.151+/-0.096  $\chi^2/\text{NDF}$ : 9690928.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 1400.880+/-901.721  $\chi^2$ /NDF: 5.3/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -963.771+/-885.600  $\chi^2$ /NDF: 4.7/9

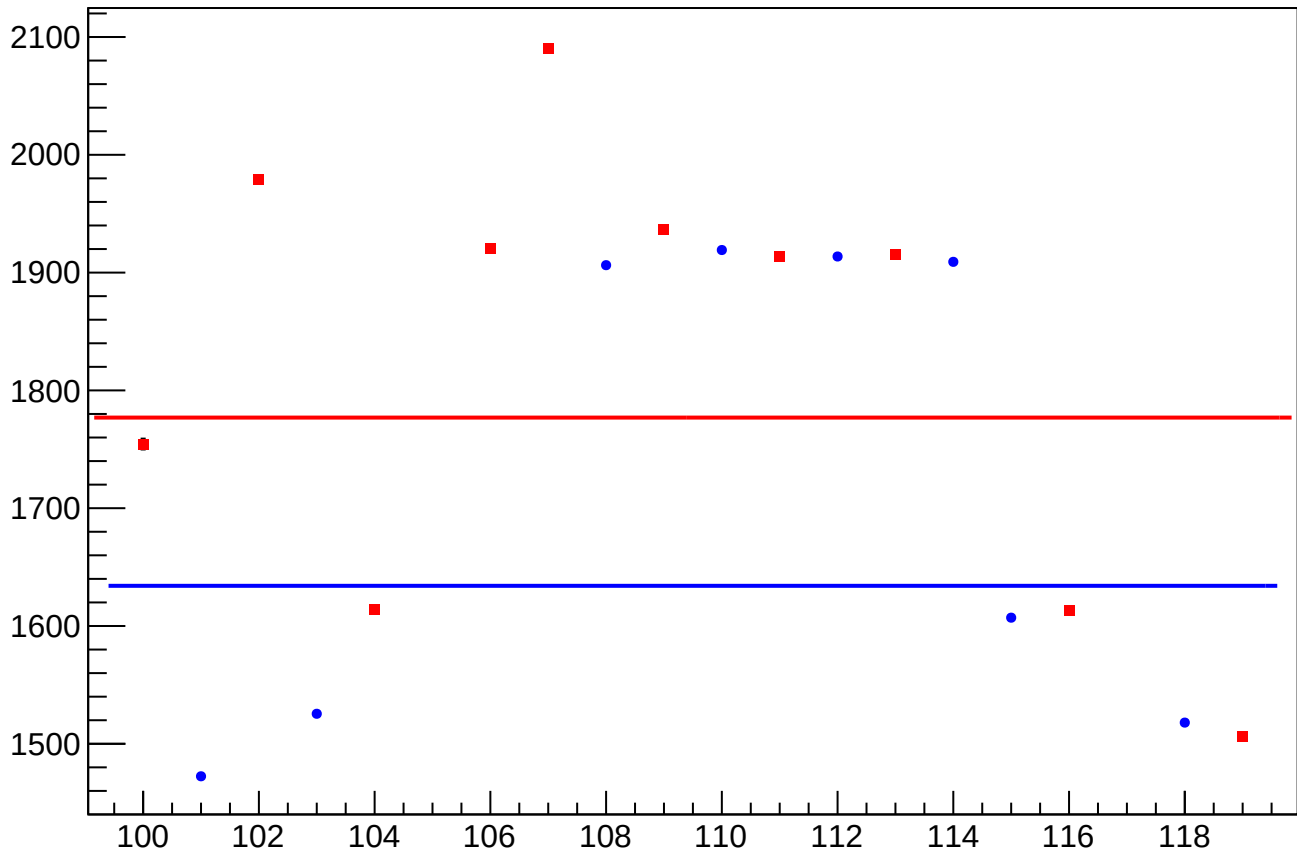
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 197.228+/-631.836  $\chi^2$ /NDF: 13.5/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1634.110+/-0.638  $\chi^2/\text{NDF}$ : 87186.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1776.925+/-0.626  $\chi^2/\text{NDF}$ : 98305.0/9

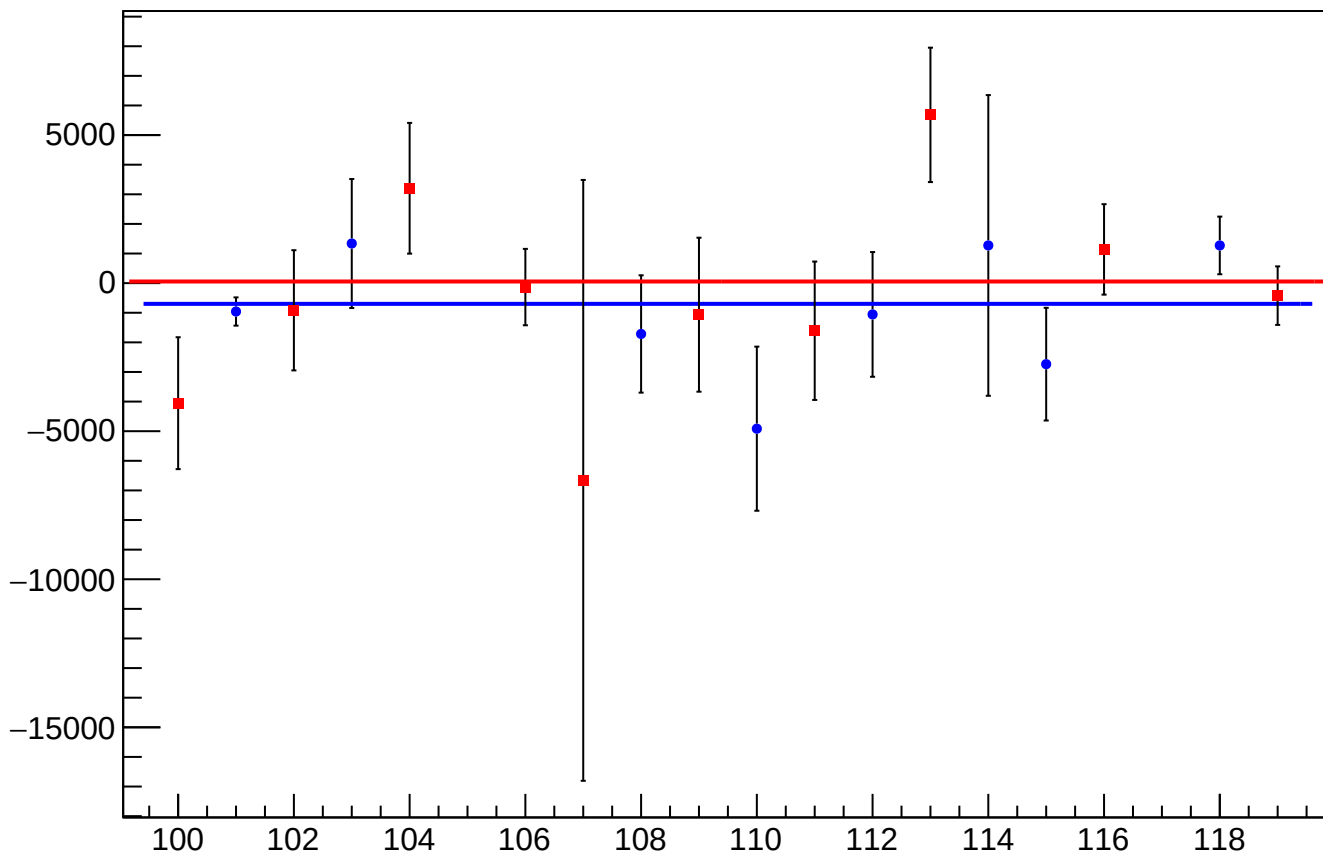
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1706.806+/-0.447  $\chi^2/\text{NDF}$ : 211028.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_dit\_correction\_mean vs Slug



Right In: -699.593+/-389.568  $\chi^2/\text{NDF}$ : 9.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.355+/-555.685  $\chi^2/\text{NDF}$ : 13.7/9

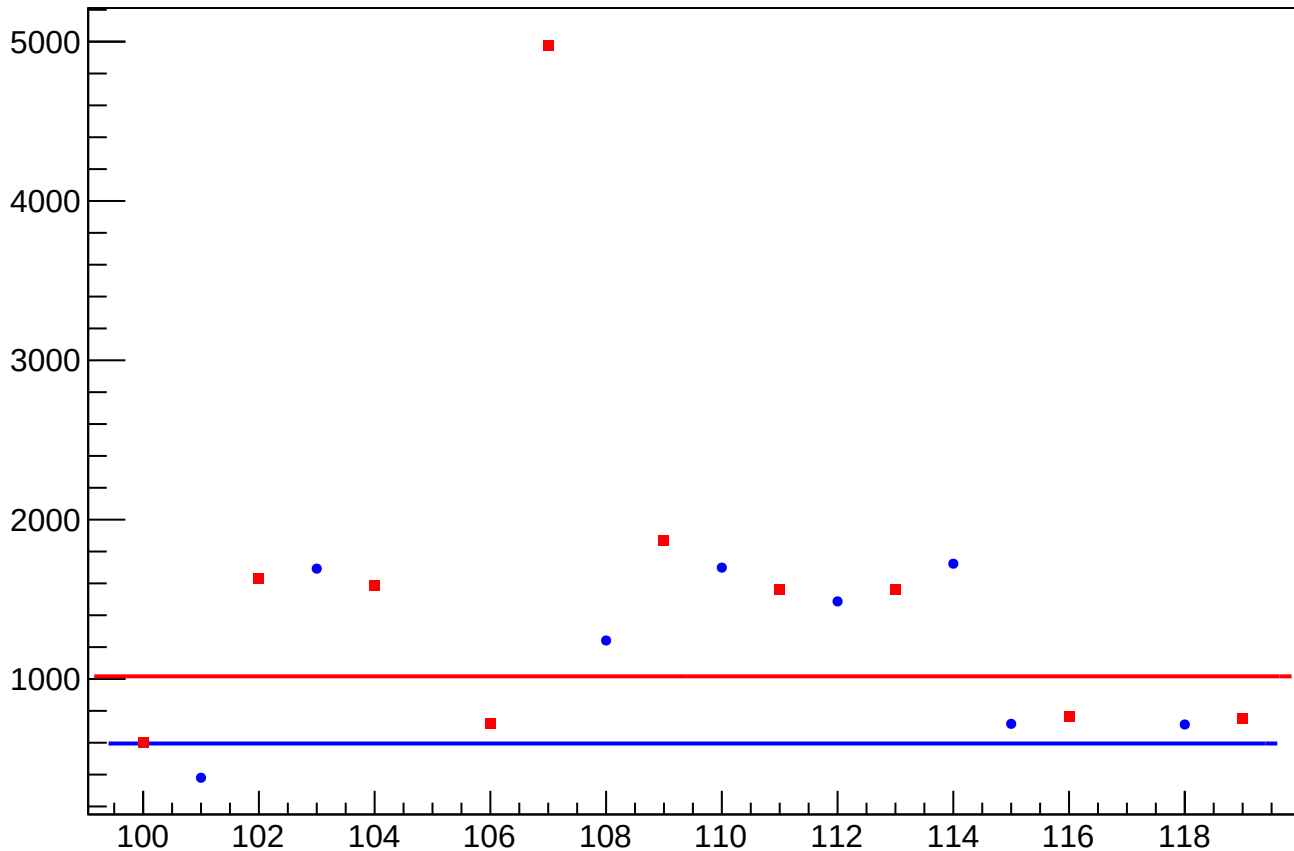
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -450.818+/-318.988  $\chi^2/\text{NDF}$ : 24.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_avg\_dit\_correction\_rms vs Slug



Right In: 595.084+/-0.275  $\chi^2/\text{NDF}$ : 1940237.5/7

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

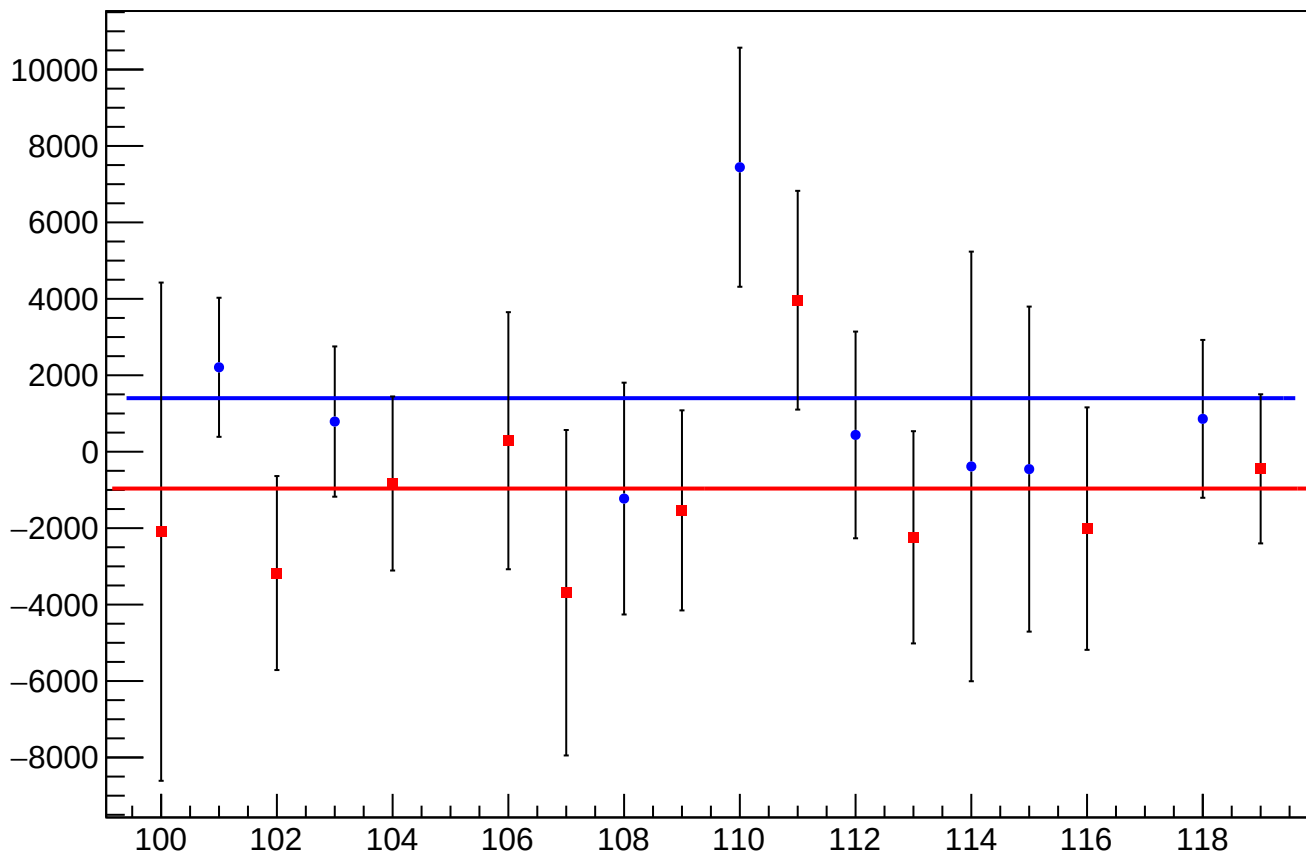
Right Out: 1016.572+/-0.393  $\chi^2/\text{NDF}$ : 1427269.5/9

All: 733.975+/-0.226  $\chi^2/\text{NDF}$ : 4138987.6/17

- 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: 1400.877+/-901.720  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -963.768+/-885.599  $\chi^2/\text{NDF}$ : 4.7/9

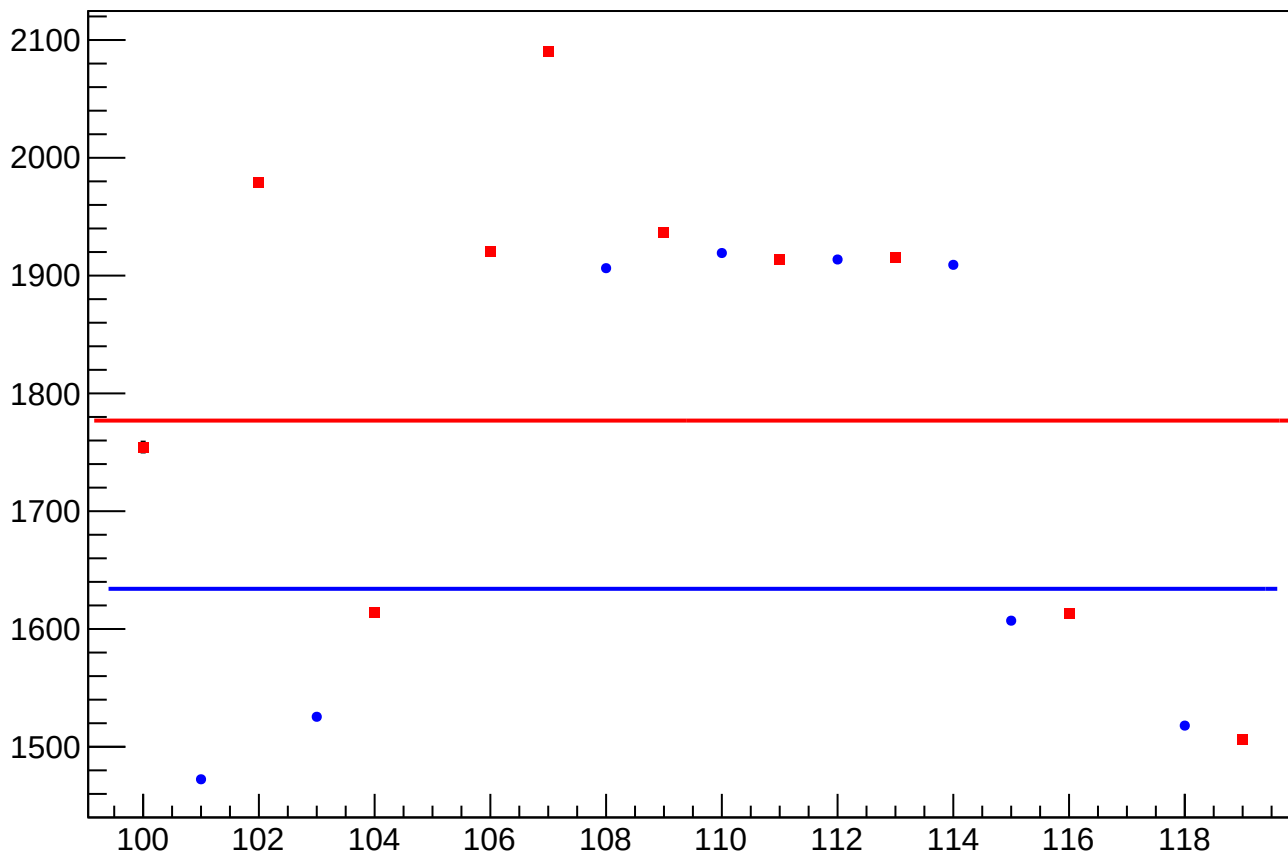
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 197.228+/-631.836  $\chi^2/\text{NDF}$ : 13.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1634.109+/-0.638  $\chi^2/\text{NDF}$ : 87187.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1776.924+/-0.626  $\chi^2/\text{NDF}$ : 98305.3/9

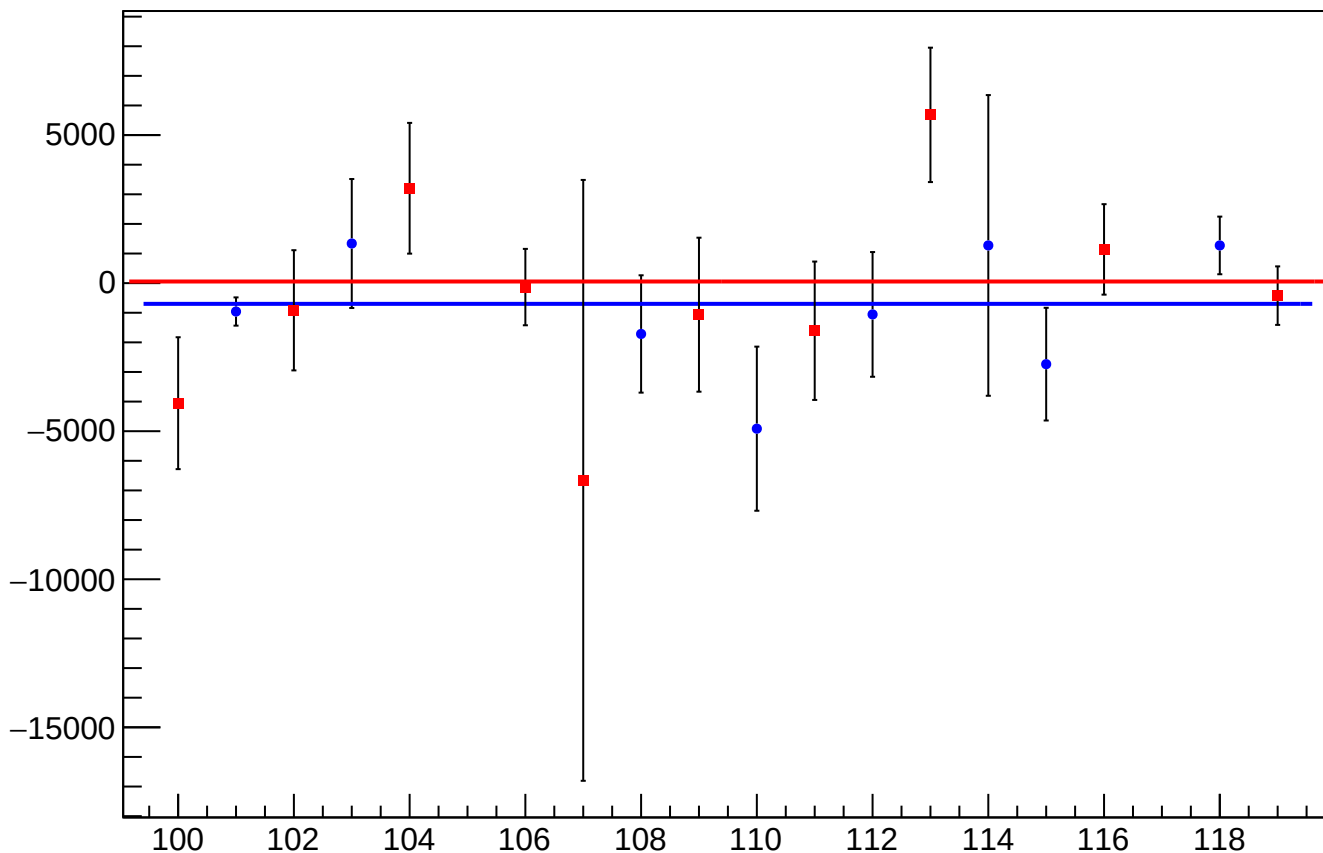
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1706.805+/-0.447  $\chi^2/\text{NDF}$ : 211029.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -699.593+/-389.568  $\chi^2/\text{NDF}$ : 9.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.354+/-555.685  $\chi^2/\text{NDF}$ : 13.7/9

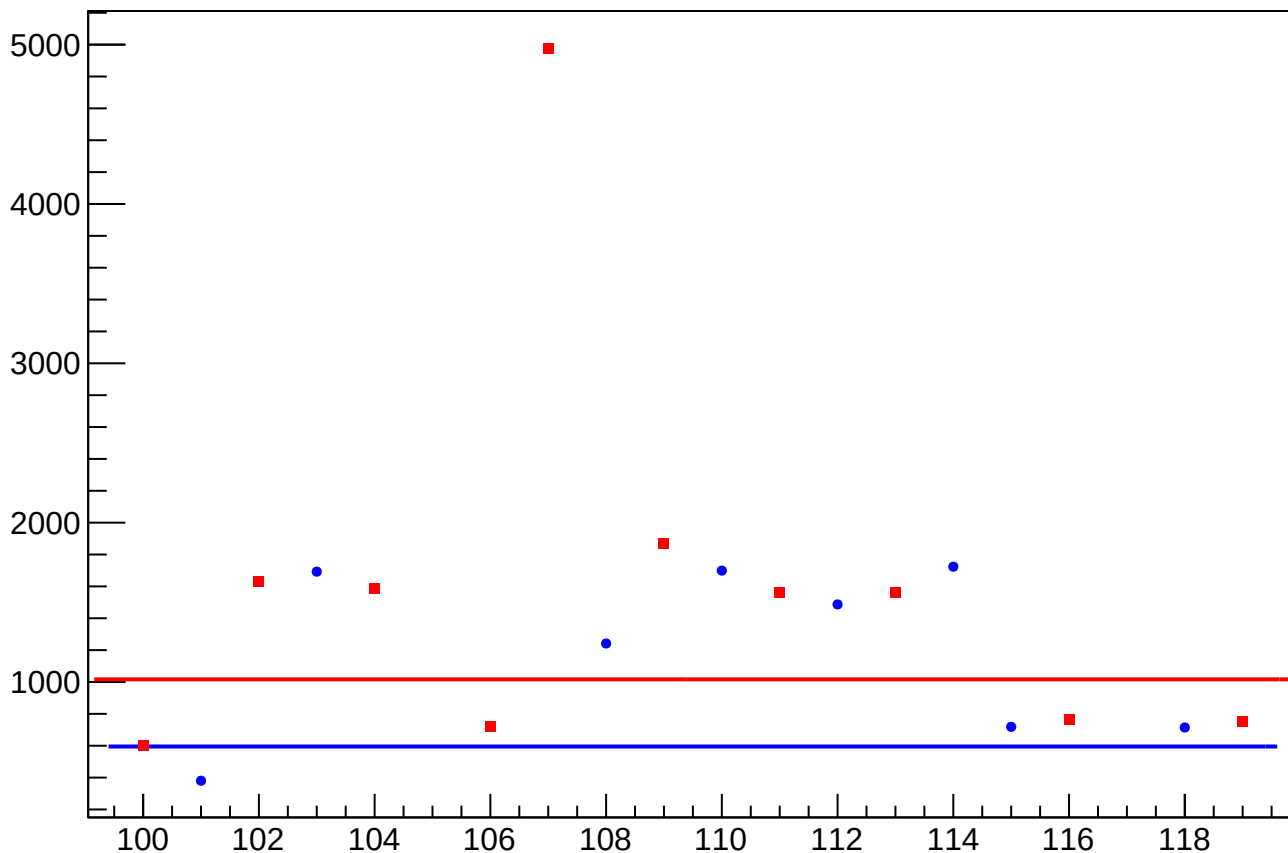
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -450.817+/-318.988  $\chi^2/\text{NDF}$ : 24.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 595.084+/-0.275  $\chi^2/\text{NDF}$ : 1940233.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1016.570+/-0.393  $\chi^2/\text{NDF}$ : 1427276.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

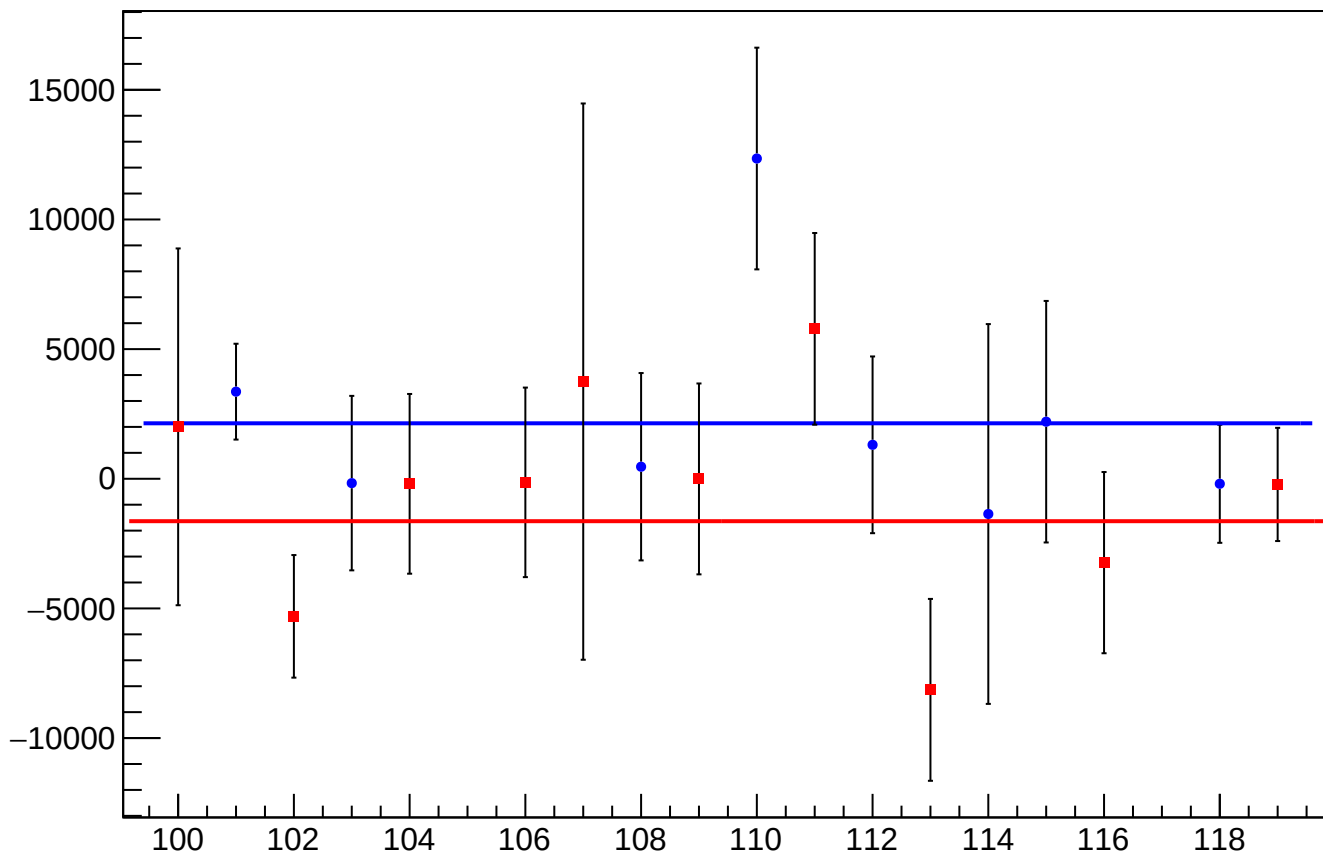
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 733.975+/-0.226  $\chi^2/\text{NDF}$ : 4138982.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 2139.282 $\pm$ 1080.642  $\chi^2$ /NDF: 8.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1635.852 $\pm$ 1061.832  $\chi^2$ /NDF: 11.6/9

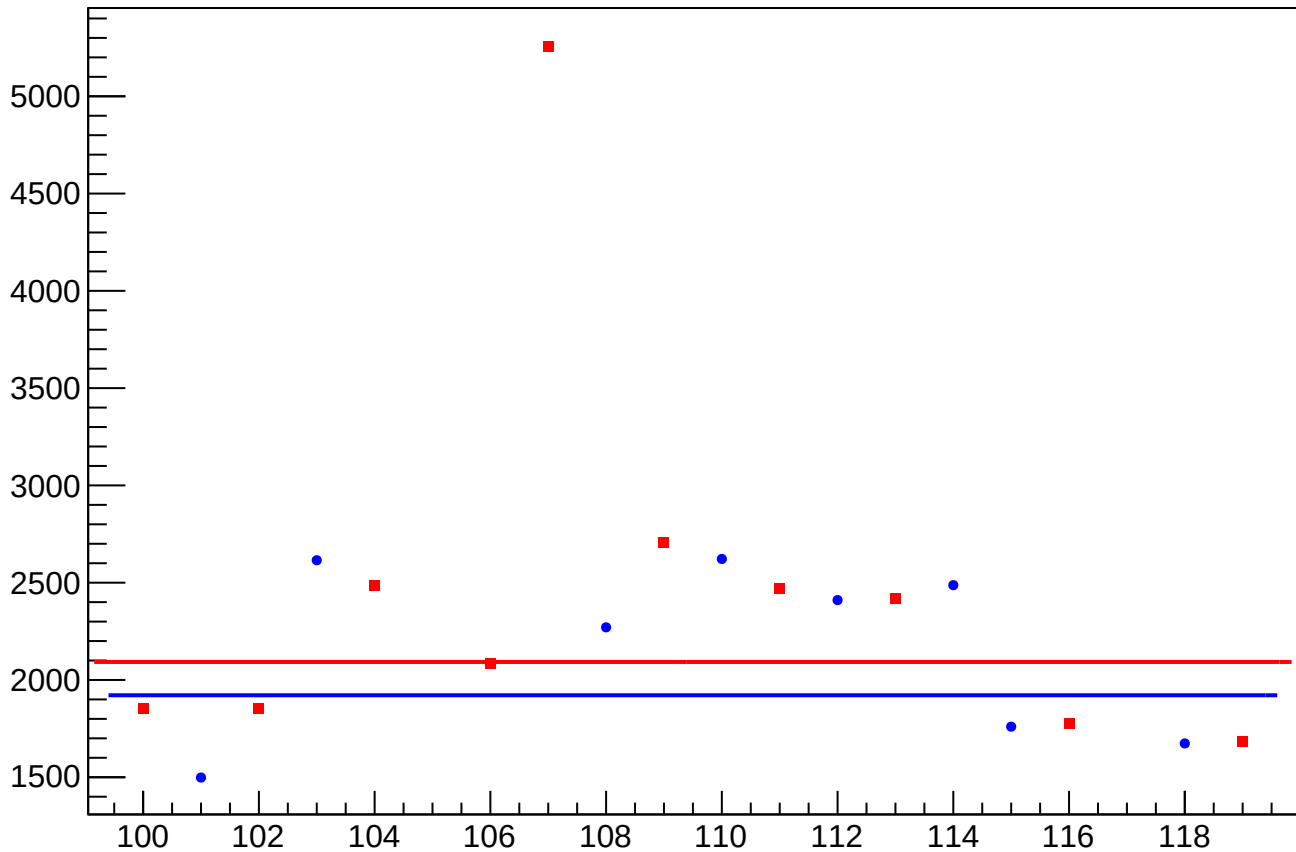
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 218.574 $\pm$ 757.392  $\chi^2$ /NDF: 25.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1921.350+/-0.764  $\chi^2/\text{NDF}$ : 341446.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2092.607+/-0.751  $\chi^2/\text{NDF}$ : 403229.3/9

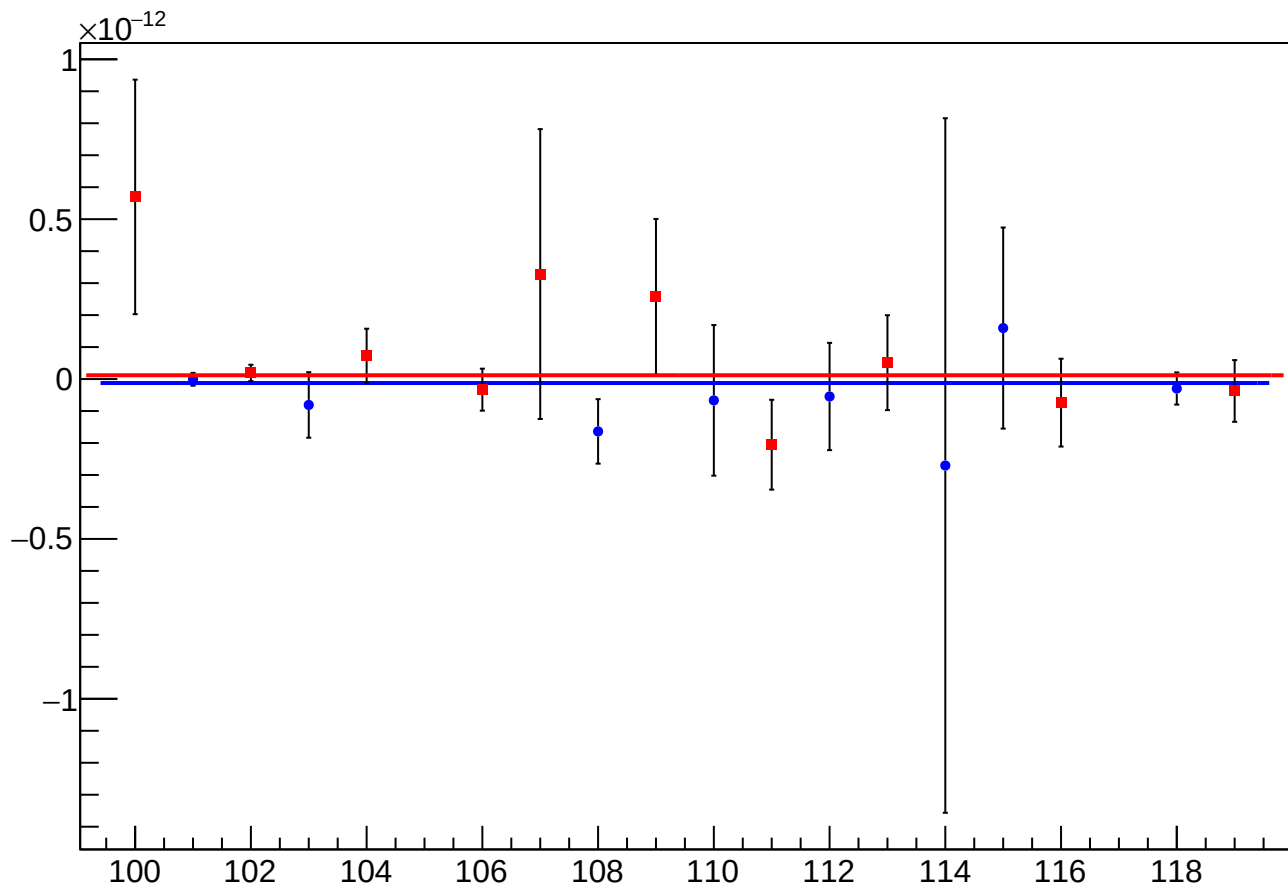
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2008.482+/-0.536  $\chi^2/\text{NDF}$ : 770232.1/17

- 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:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 3.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 8.0/9

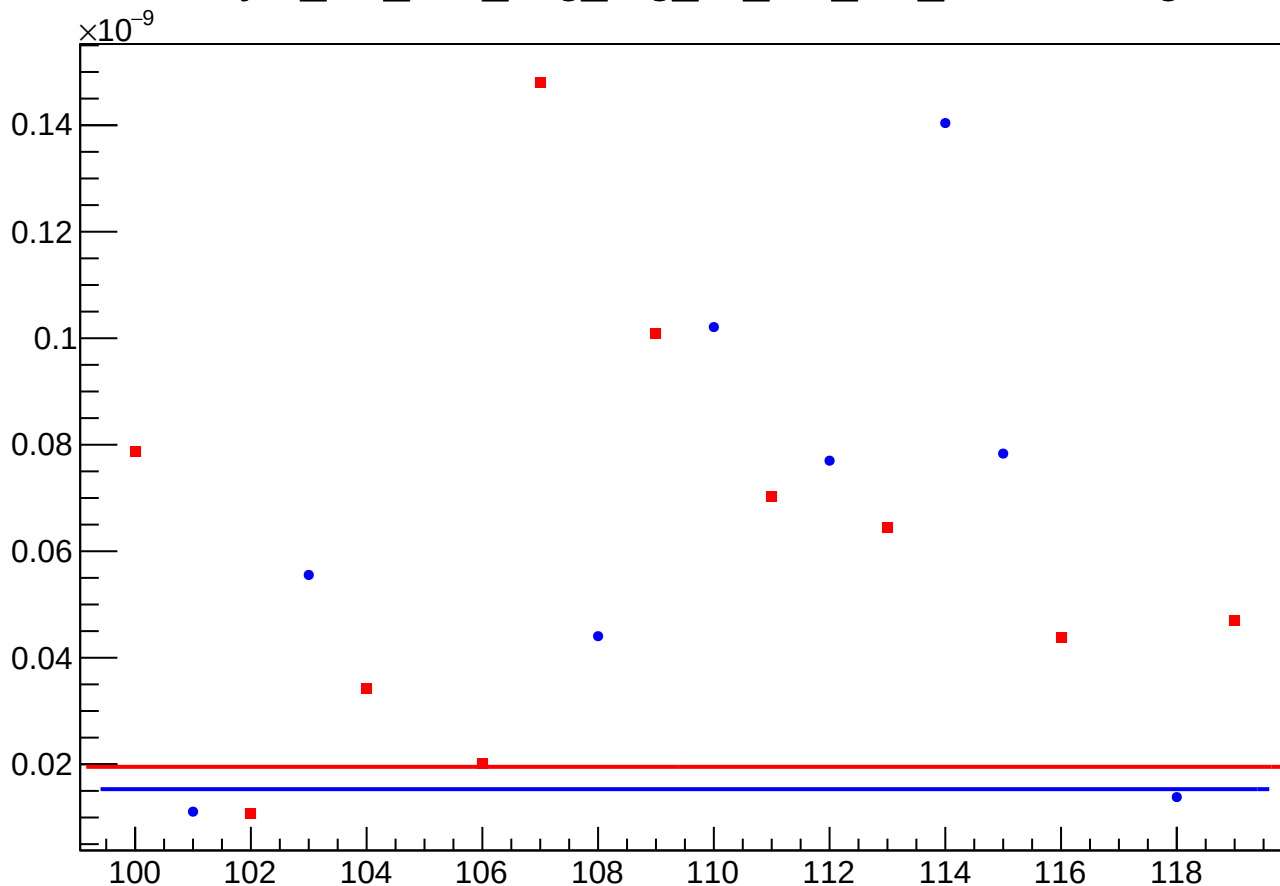
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 12.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1210150.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1403752.5/9

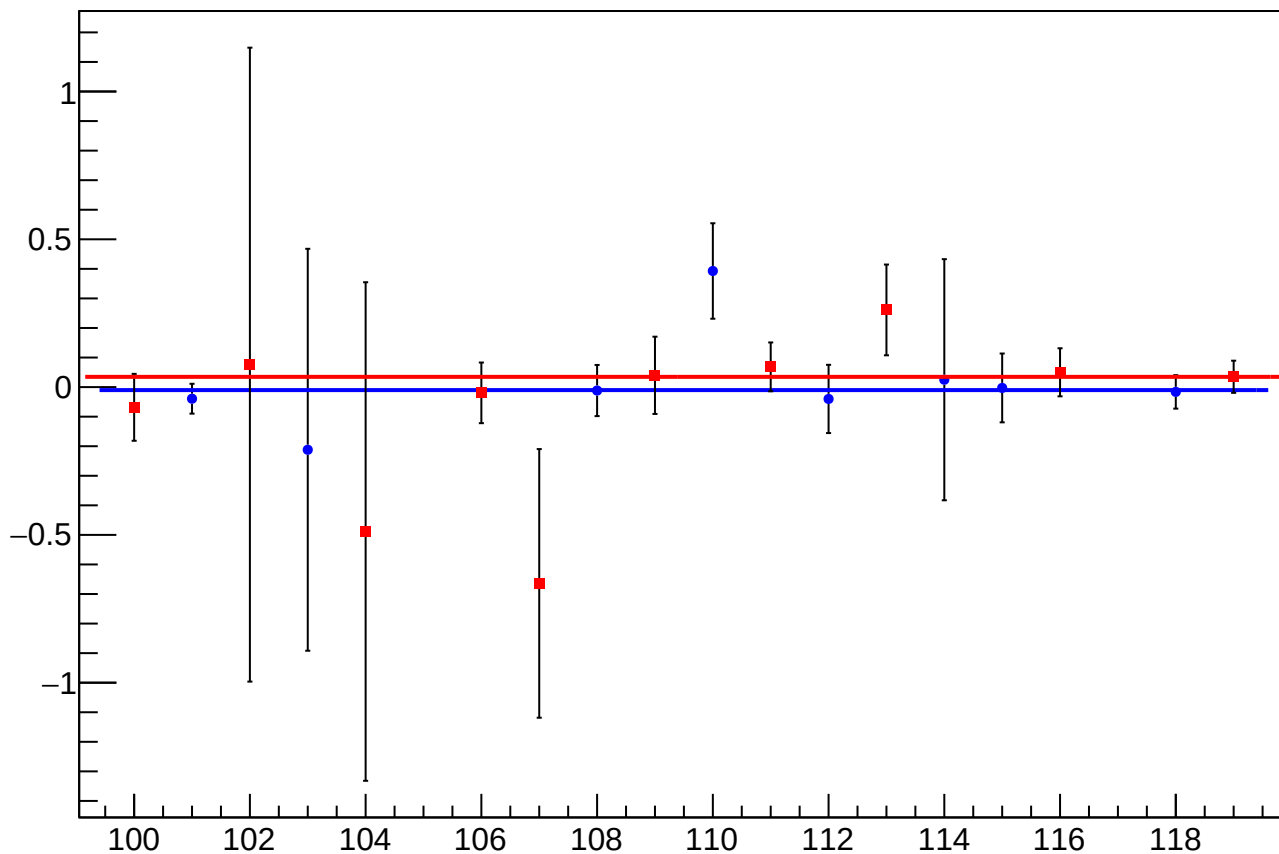
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2659309.6/17

- 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: -0.010+/-0.031  $\chi^2/\text{NDF}$ : 6.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.035+/-0.033  $\chi^2/\text{NDF}$ : 6.2/9

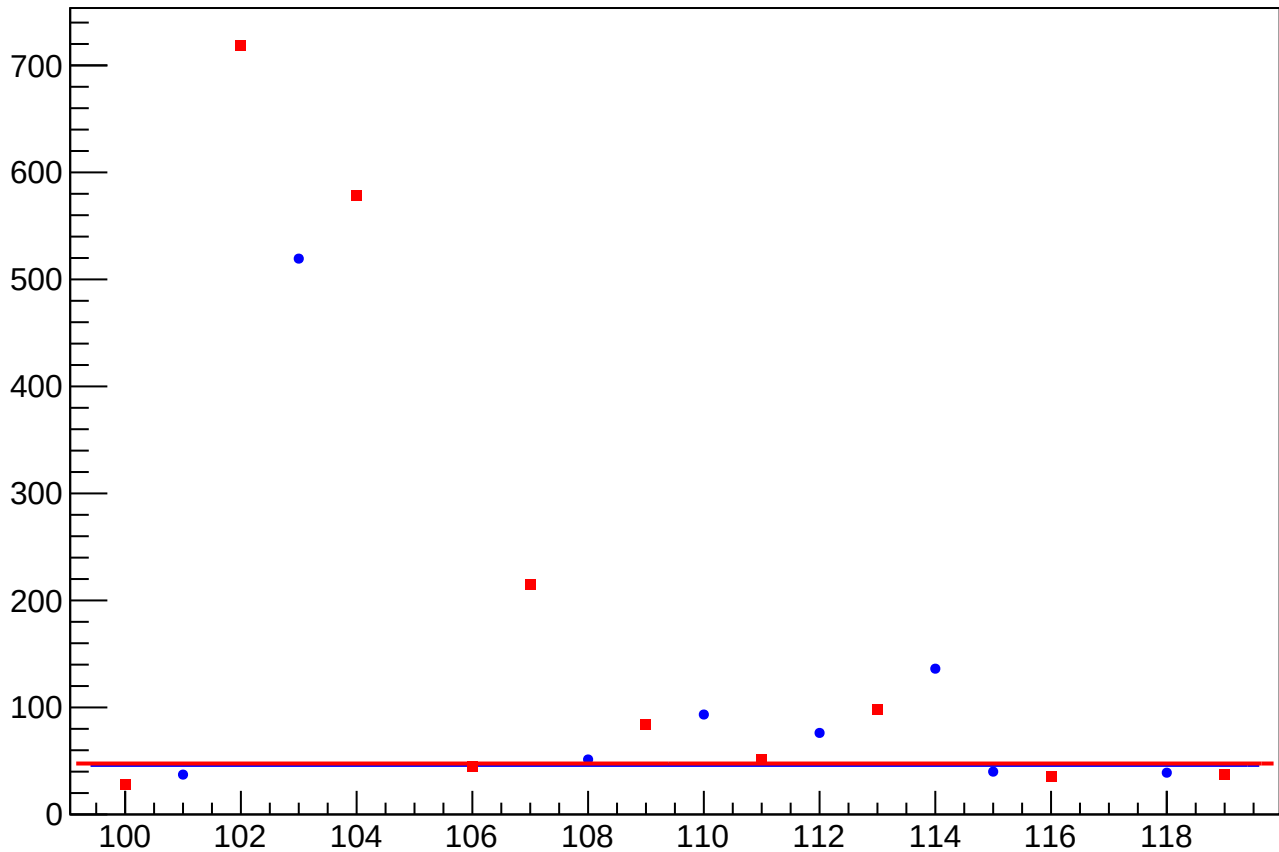
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.023  $\chi^2/\text{NDF}$ : 14.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 46.305+/-0.022  $\chi^2/\text{NDF}$ : 1480181.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 47.595+/-0.023  $\chi^2/\text{NDF}$ : 2394730.1/9

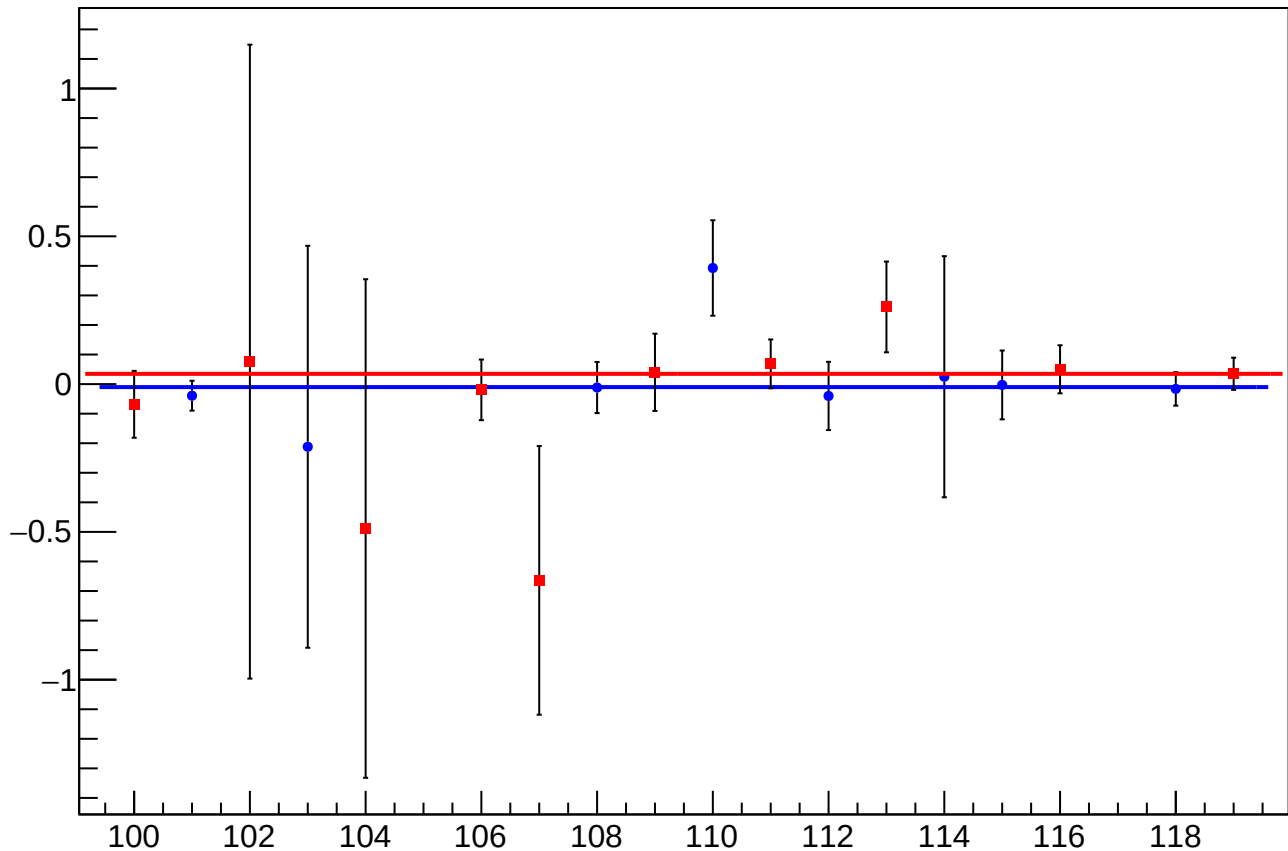
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.912+/-0.016  $\chi^2/\text{NDF}$ : 3876530.9/17

- 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: -0.010 $\pm$ 0.031  $\chi^2$ /NDF: 6.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.035 $\pm$ 0.033  $\chi^2$ /NDF: 6.2/9

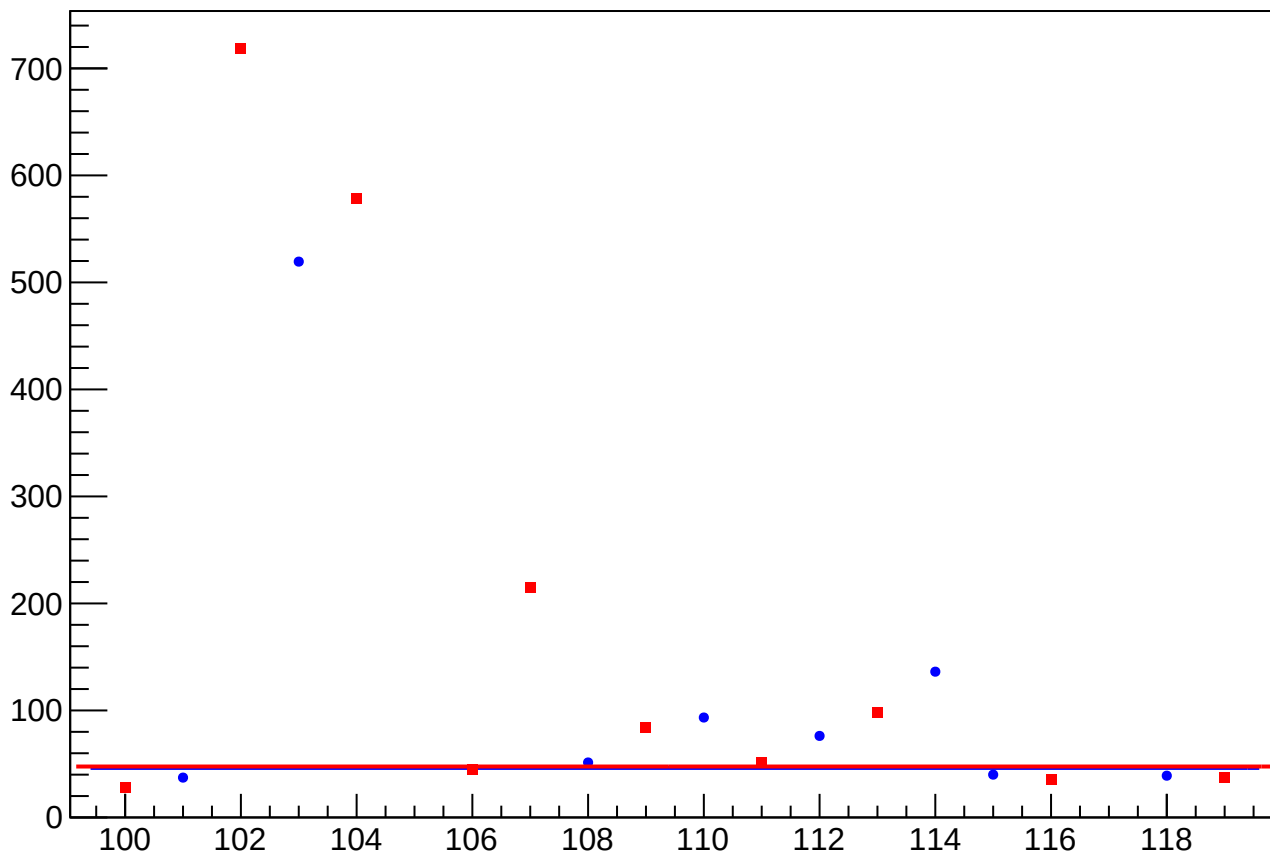
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.023  $\chi^2$ /NDF: 14.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 46.305+/-0.022  $\chi^2/\text{NDF}$ : 1480181.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 47.595+/-0.023  $\chi^2/\text{NDF}$ : 2394730.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

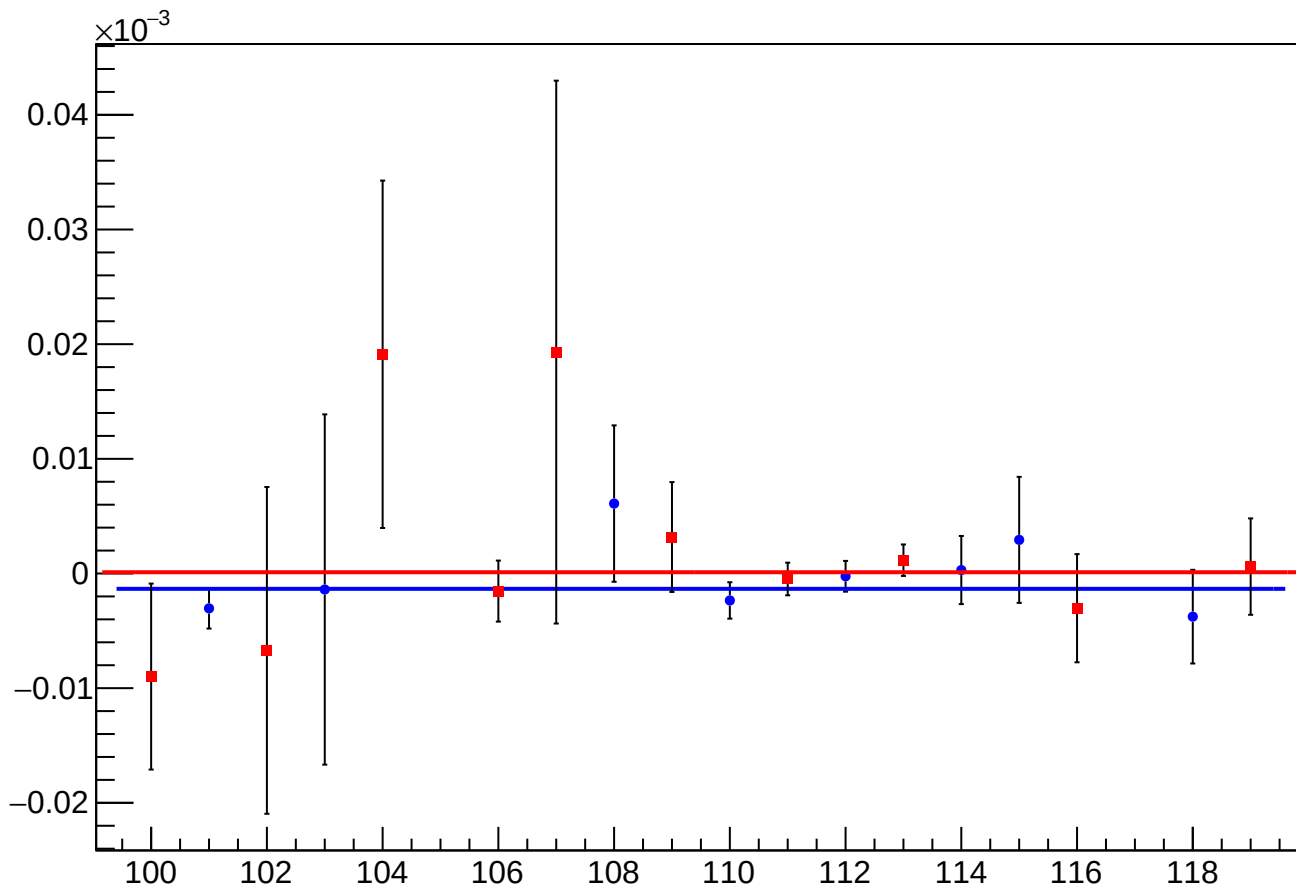
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.912+/-0.016  $\chi^2/\text{NDF}$ : 3876530.9/17

- 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  $\chi^2/\text{NDF}$ : 4.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.7/9

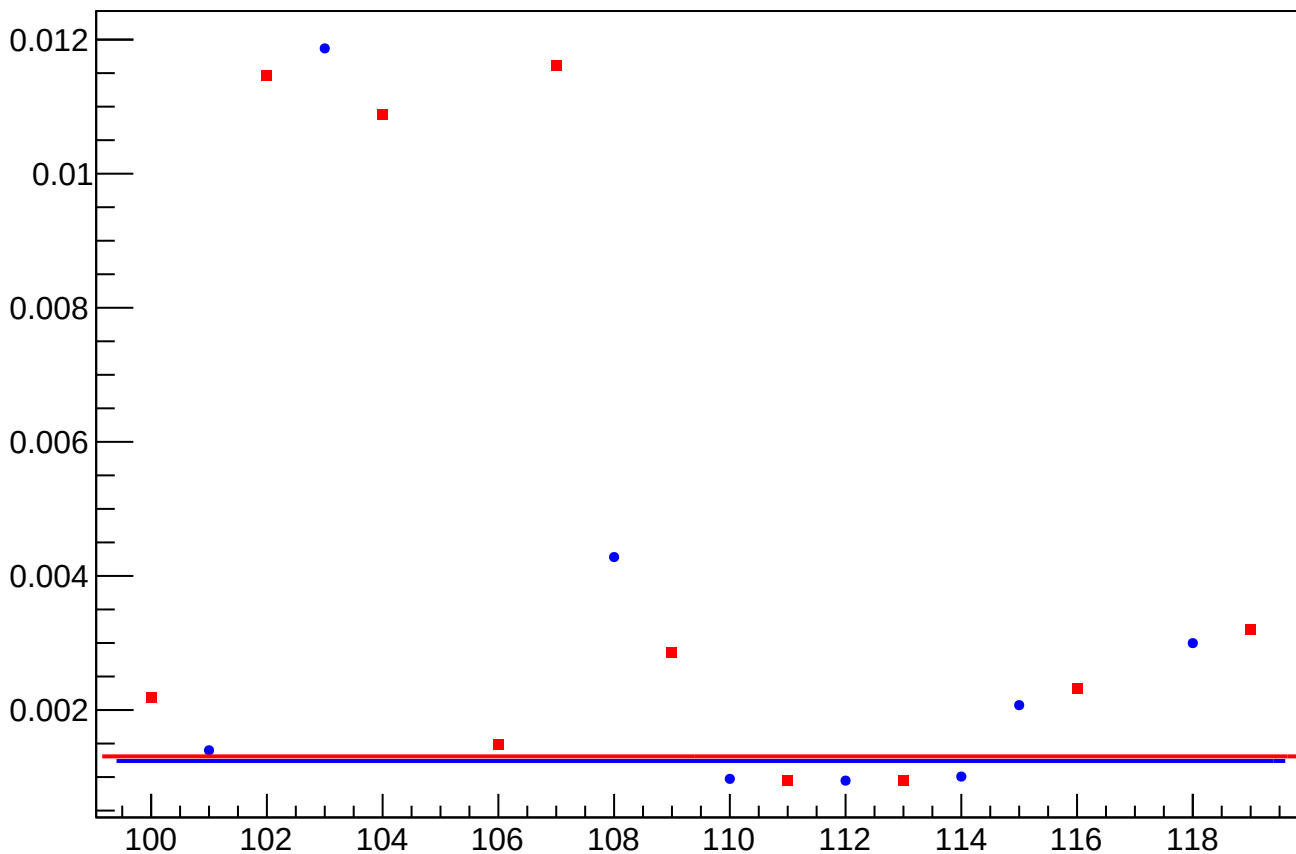
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1962730.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3199137.6/9

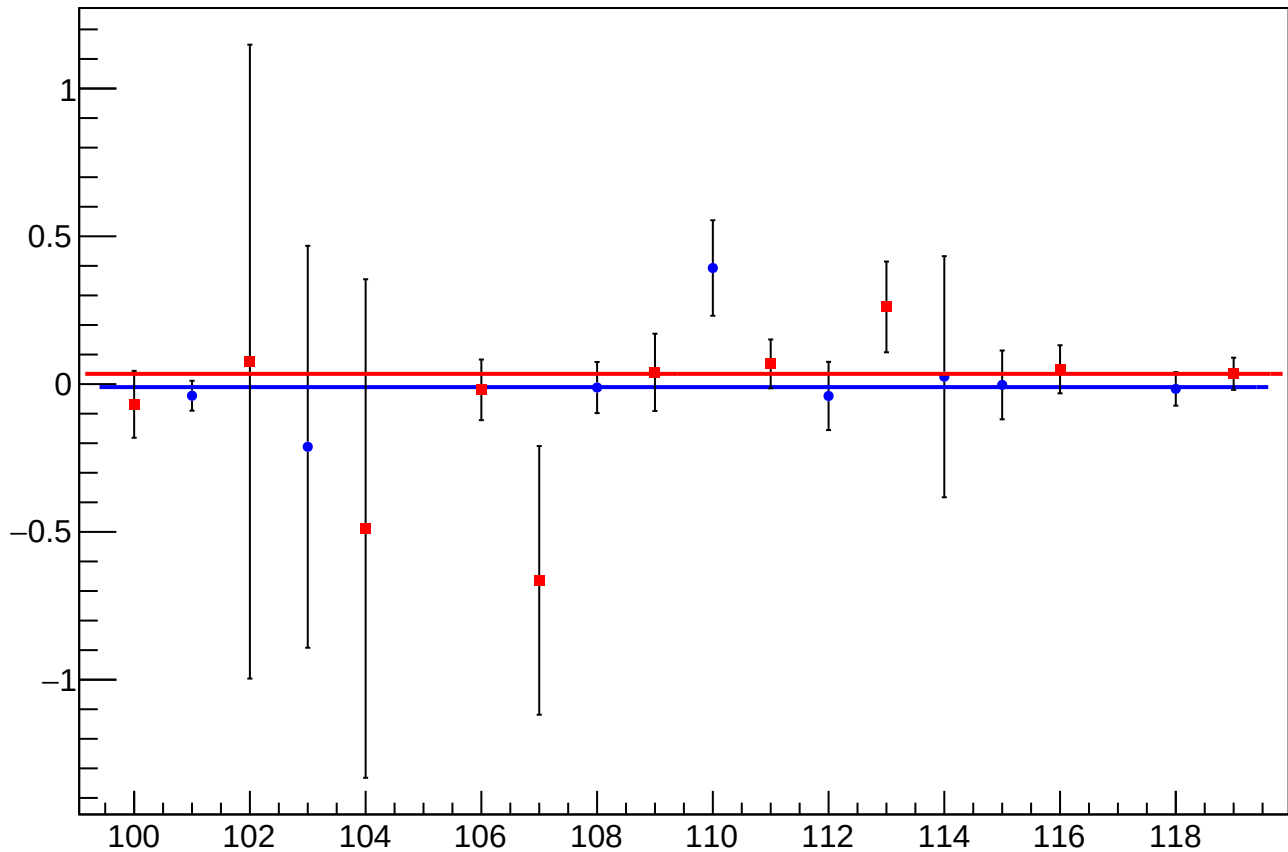
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5168501.5/17

- 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: -0.010 $\pm$ 0.031  $\chi^2$ /NDF: 6.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.035 $\pm$ 0.033  $\chi^2$ /NDF: 6.2/9

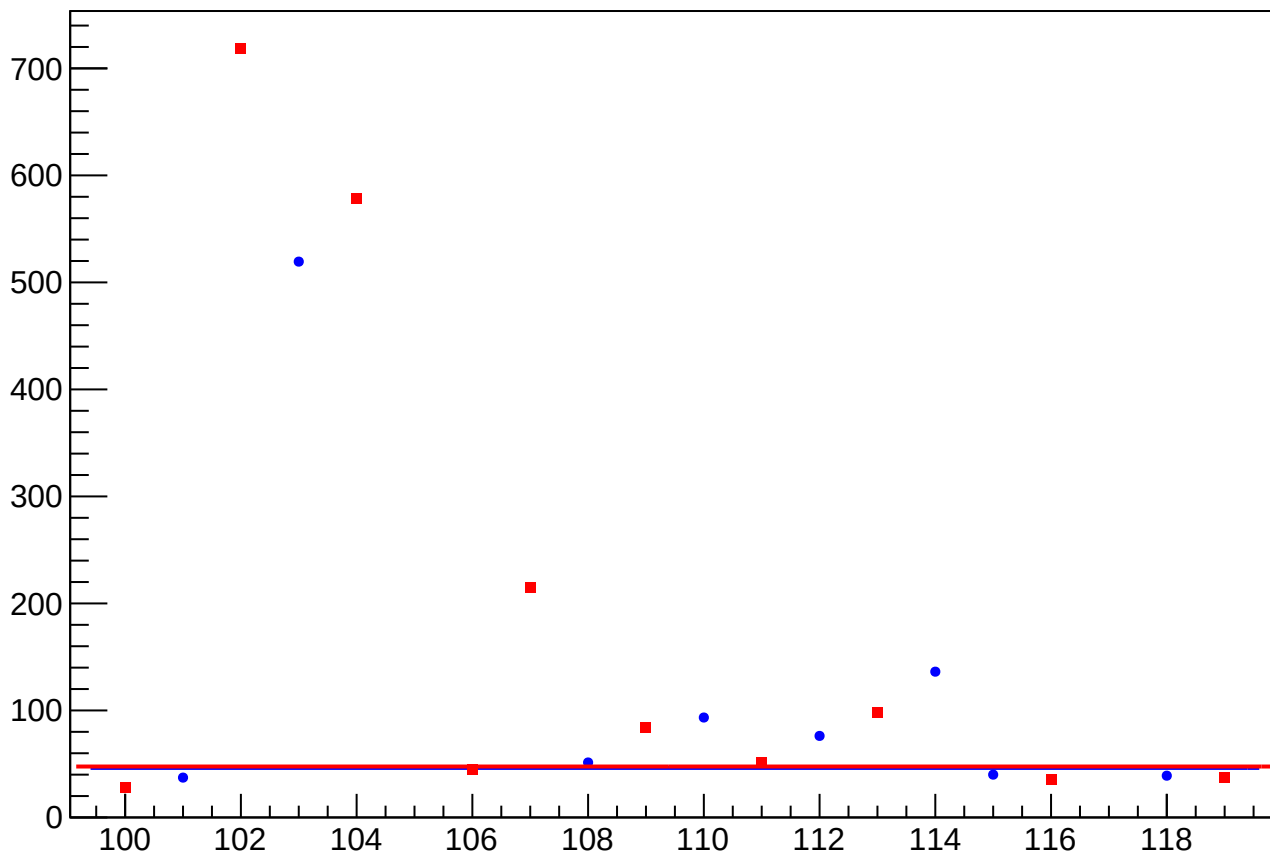
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.023  $\chi^2$ /NDF: 14.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 46.305+/-0.022  $\chi^2/\text{NDF}$ : 1480188.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 47.595+/-0.023  $\chi^2/\text{NDF}$ : 2394735.5/9

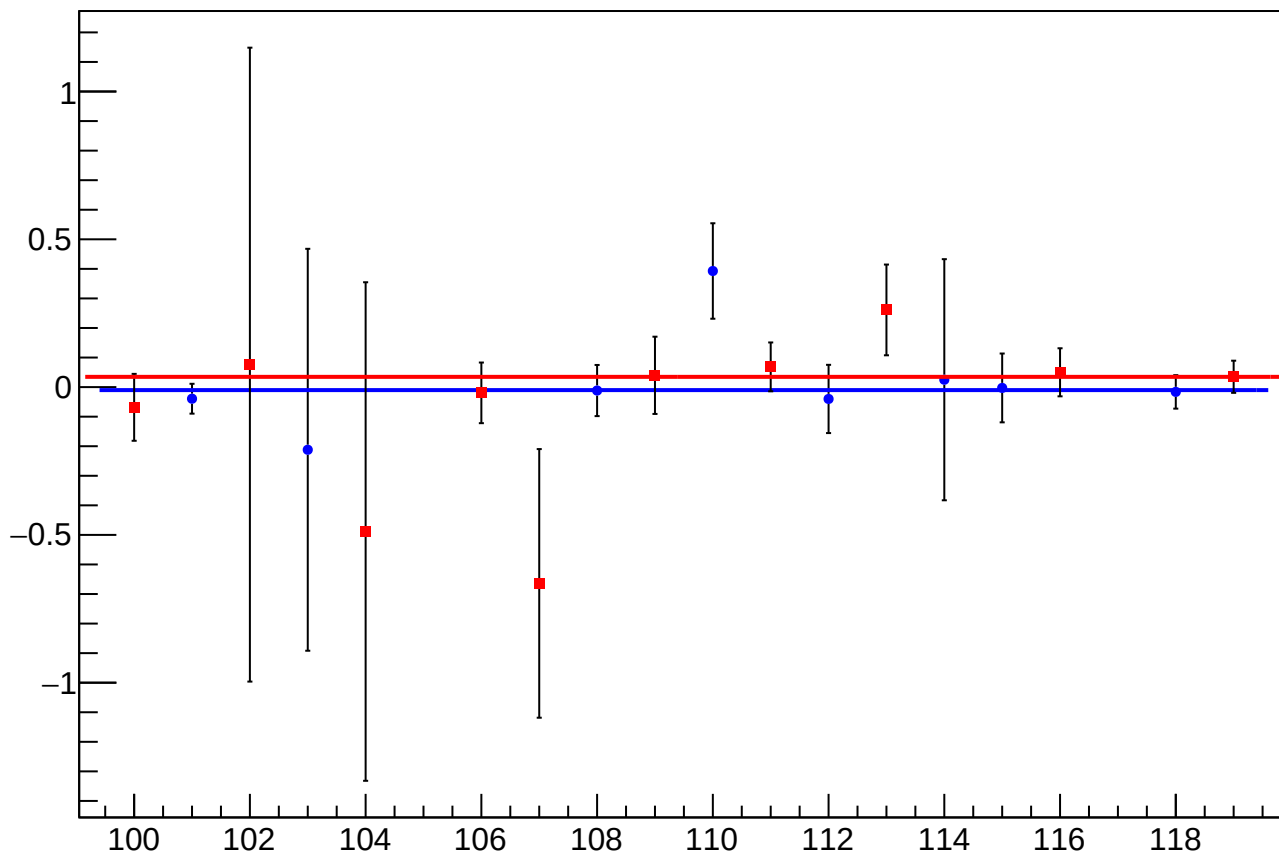
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.911+/-0.016  $\chi^2/\text{NDF}$ : 3876541.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.010 $\pm$ 0.031  $\chi^2$ /NDF: 6.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.035 $\pm$ 0.033  $\chi^2$ /NDF: 6.2/9

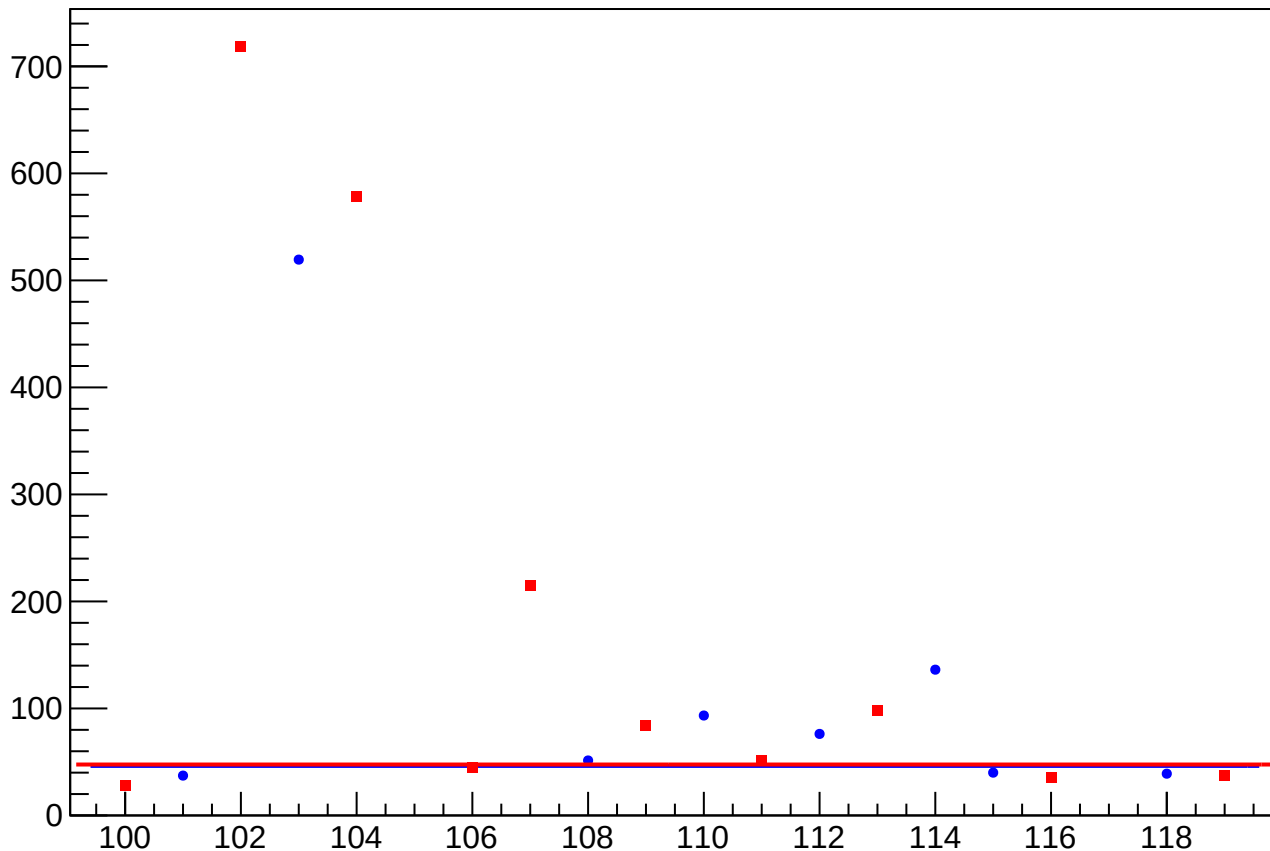
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.023  $\chi^2$ /NDF: 14.0/17

- 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: 46.305+/-0.022  $\chi^2/\text{NDF}$ : 1480188.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 47.595+/-0.023  $\chi^2/\text{NDF}$ : 2394735.5/9

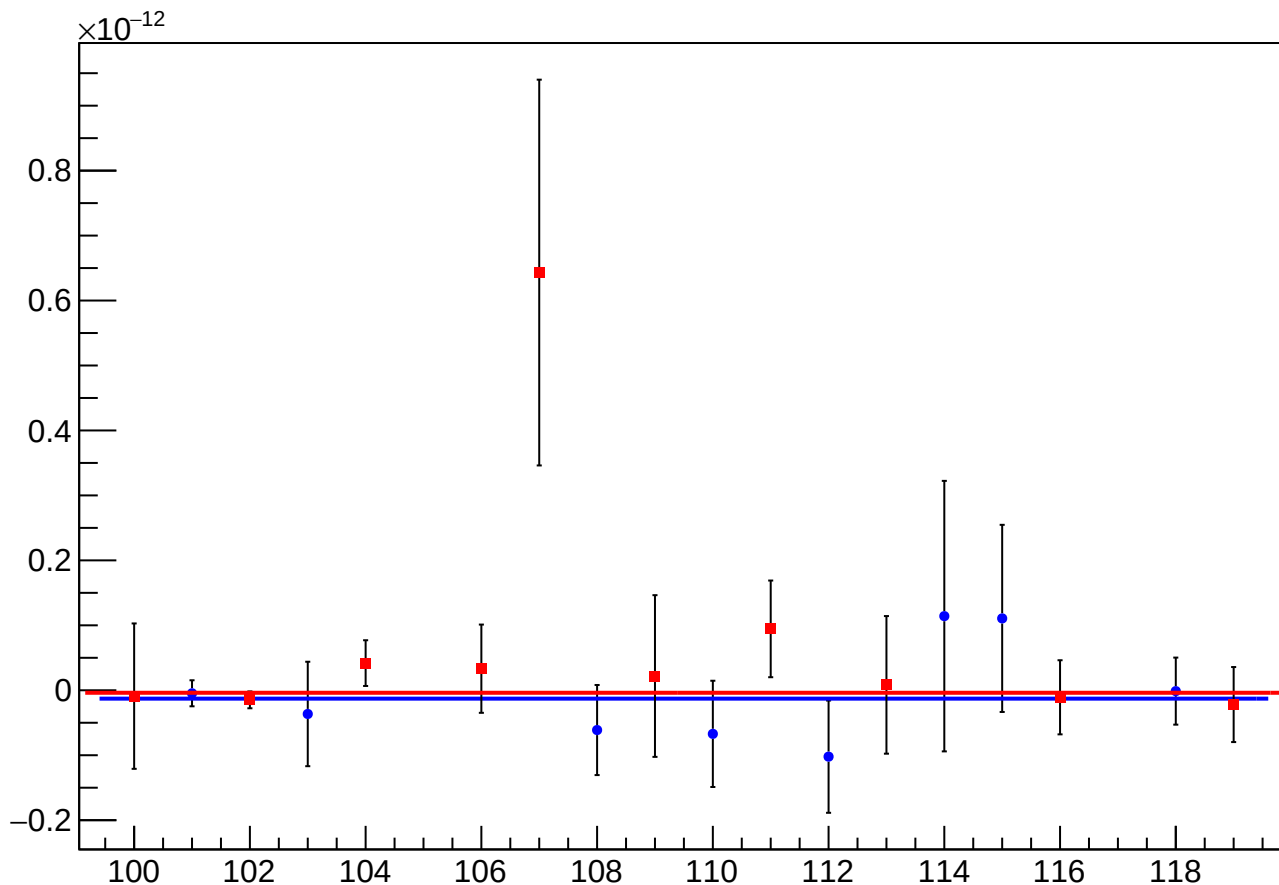
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.911+/-0.016  $\chi^2/\text{NDF}$ : 3876541.0/17

- 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: 3.4/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 9.3/9

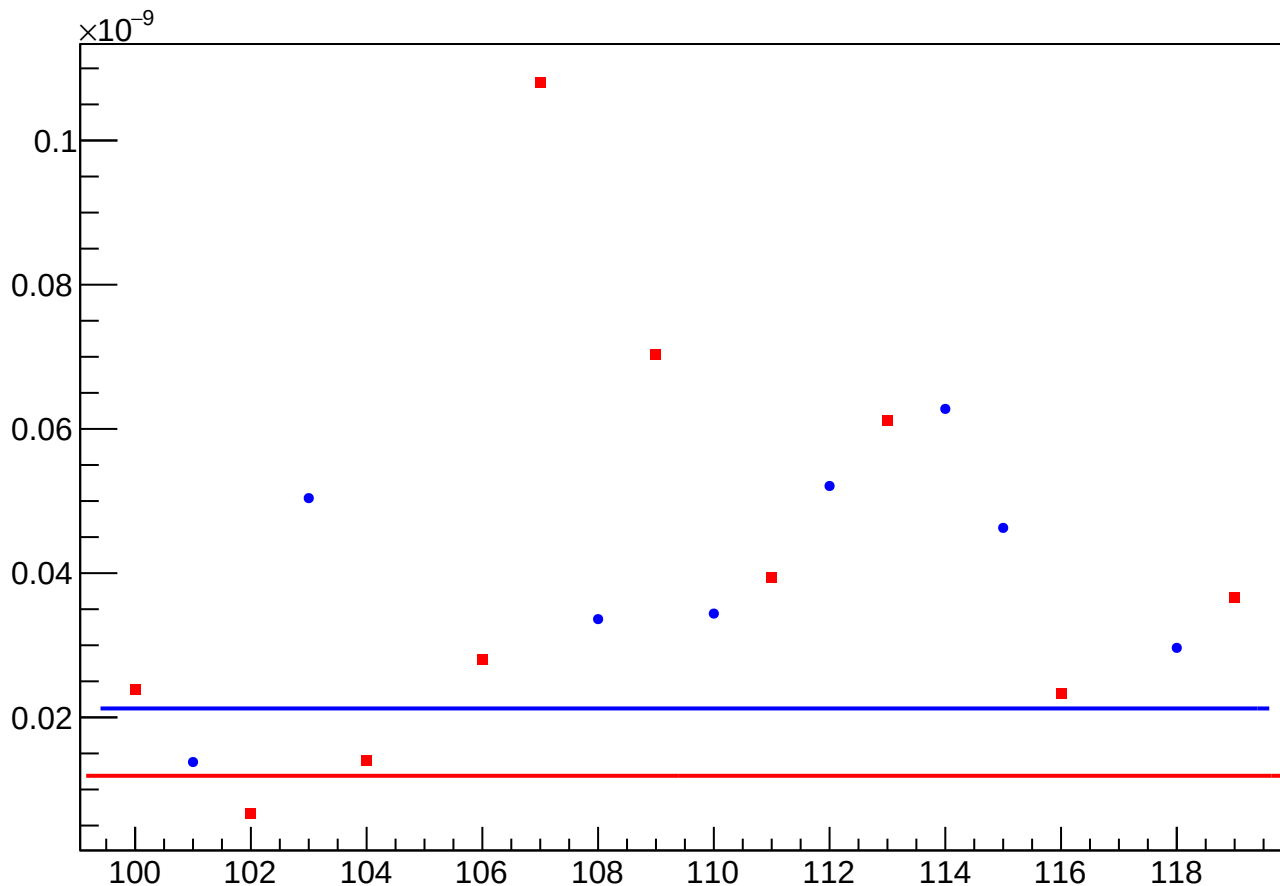
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 13.0/17

- 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  $\chi^2/\text{NDF}$ : 1101603.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2272196.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

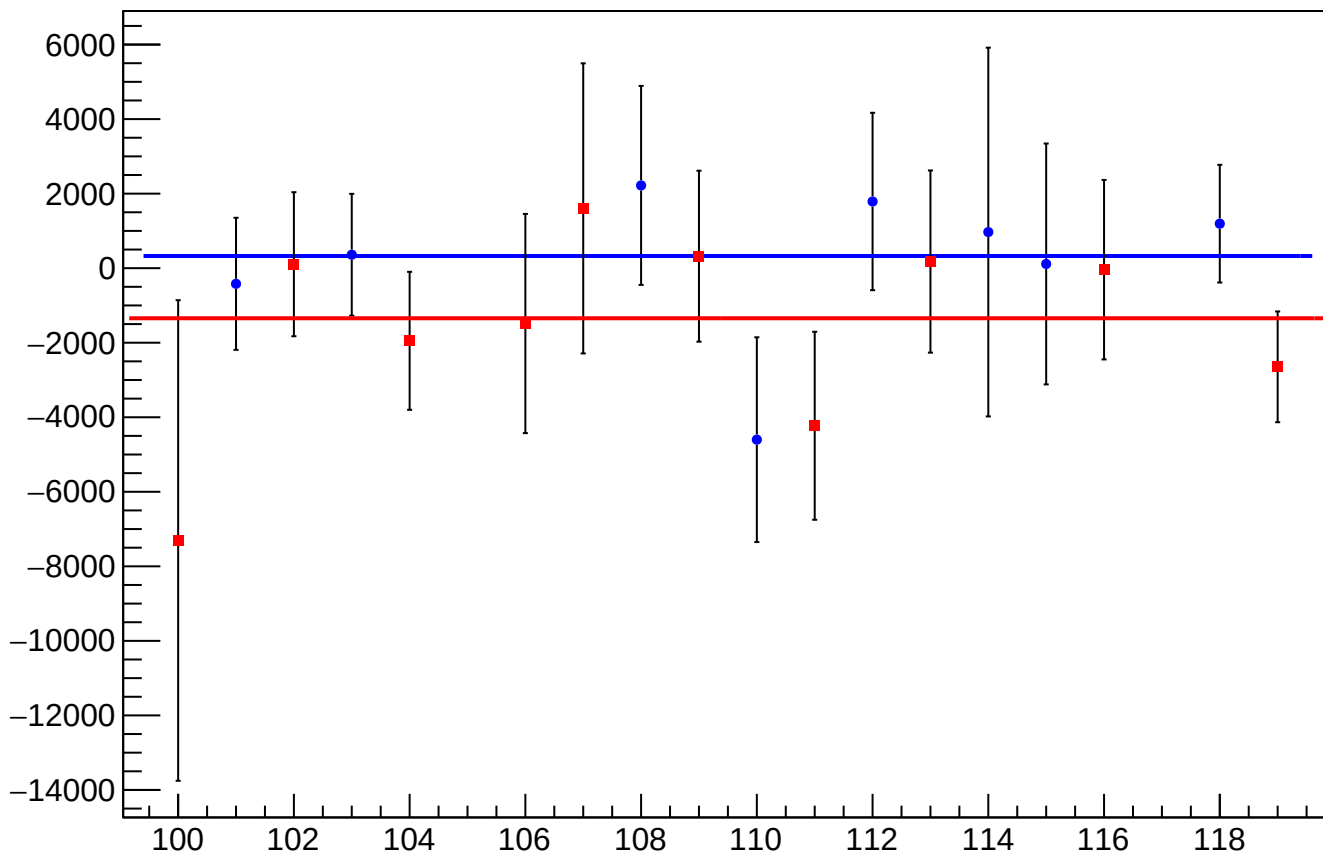
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3805287.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usl\_atl1\_dd\_mean vs Slug



Right In: 326.693+/-771.529  $\chi^2/\text{NDF}$ : 4.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1344.240+/-724.501  $\chi^2/\text{NDF}$ : 5.4/9

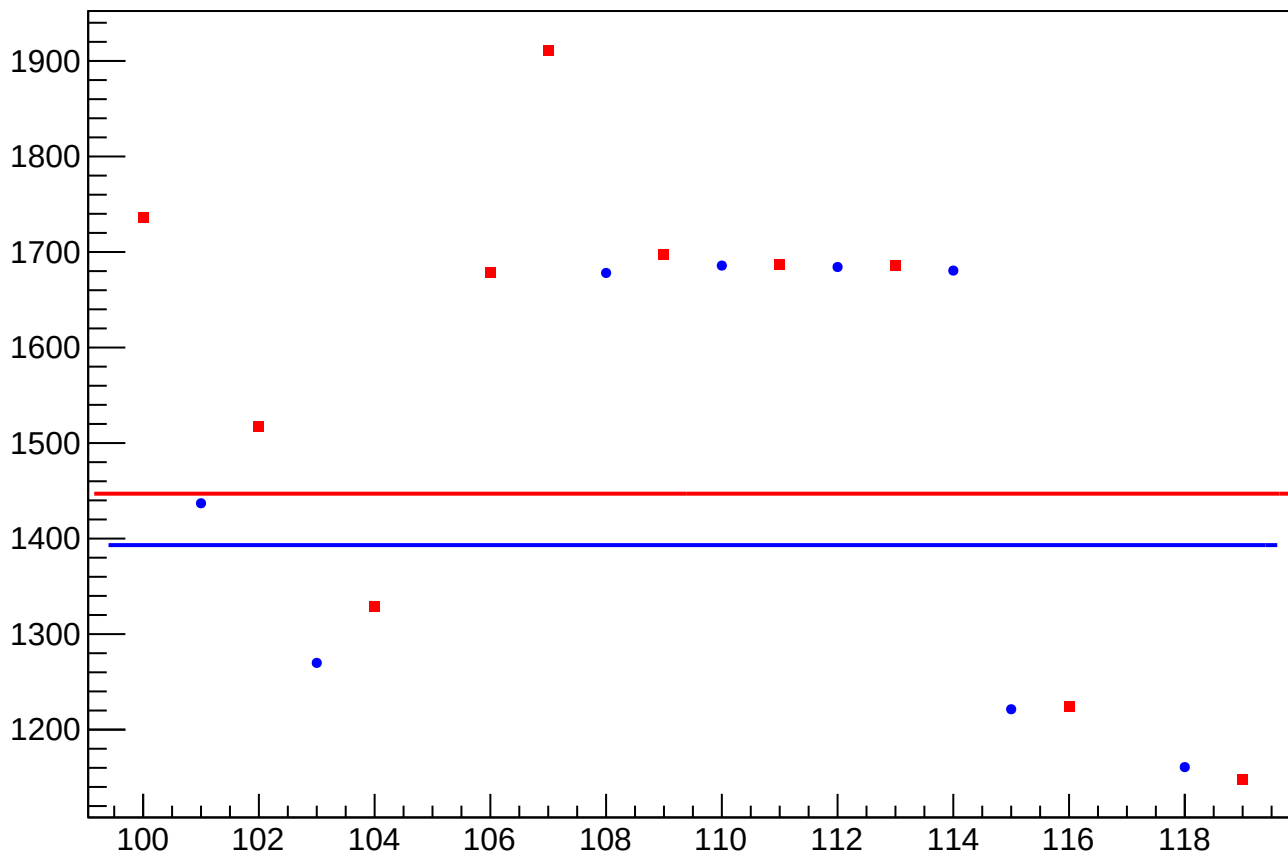
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -561.249+/-528.143  $\chi^2/\text{NDF}$ : 12.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1393.166 $\pm$ 0.546  $\chi^2$ /NDF: 143711.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1447.010 $\pm$ 0.512  $\chi^2$ /NDF: 215099.2/9

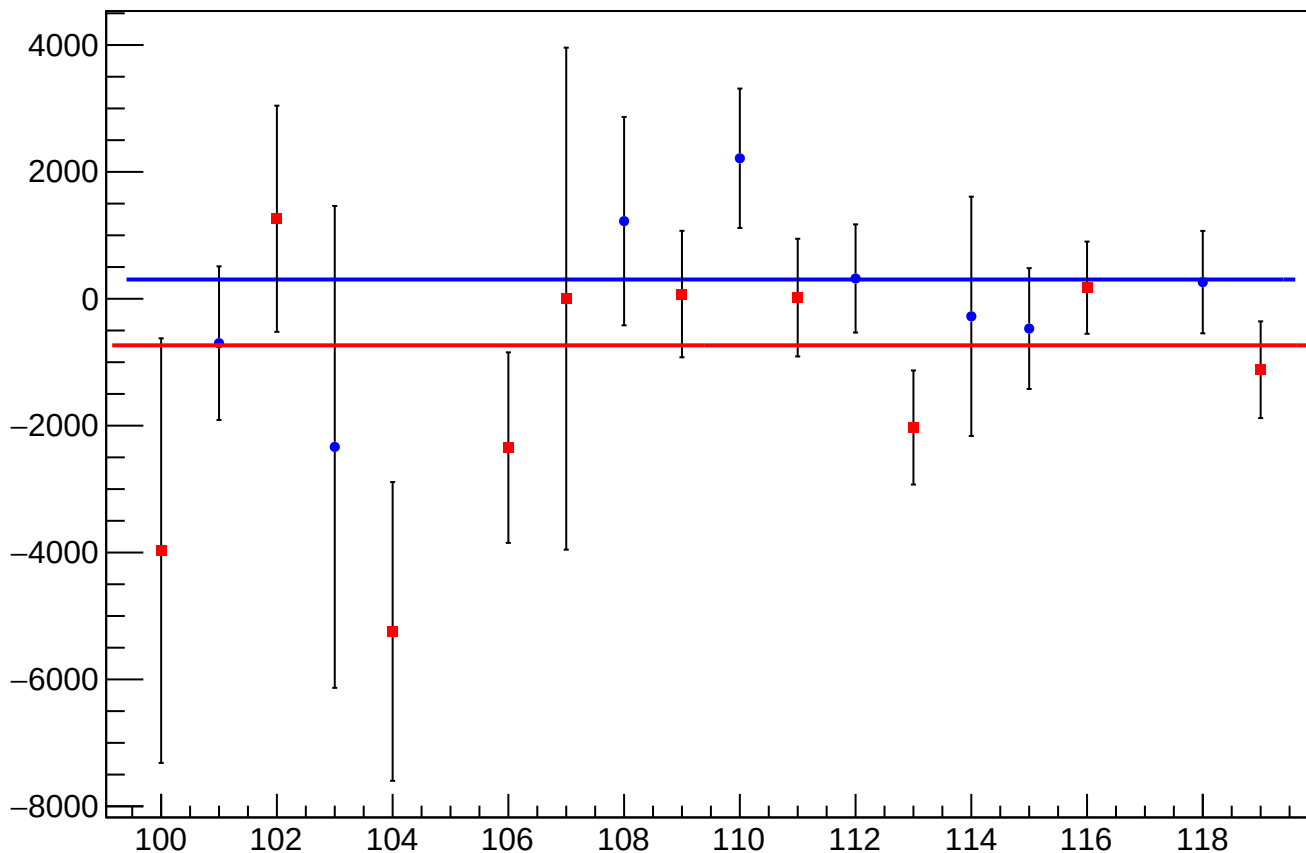
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1421.779 $\pm$ 0.373  $\chi^2$ /NDF: 363986.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_dd\_reg\_correction\_mean vs Slug



Right In: 303.717+/-400.188  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -733.864+/-351.150  $\chi^2/\text{NDF}$ : 12.2/9

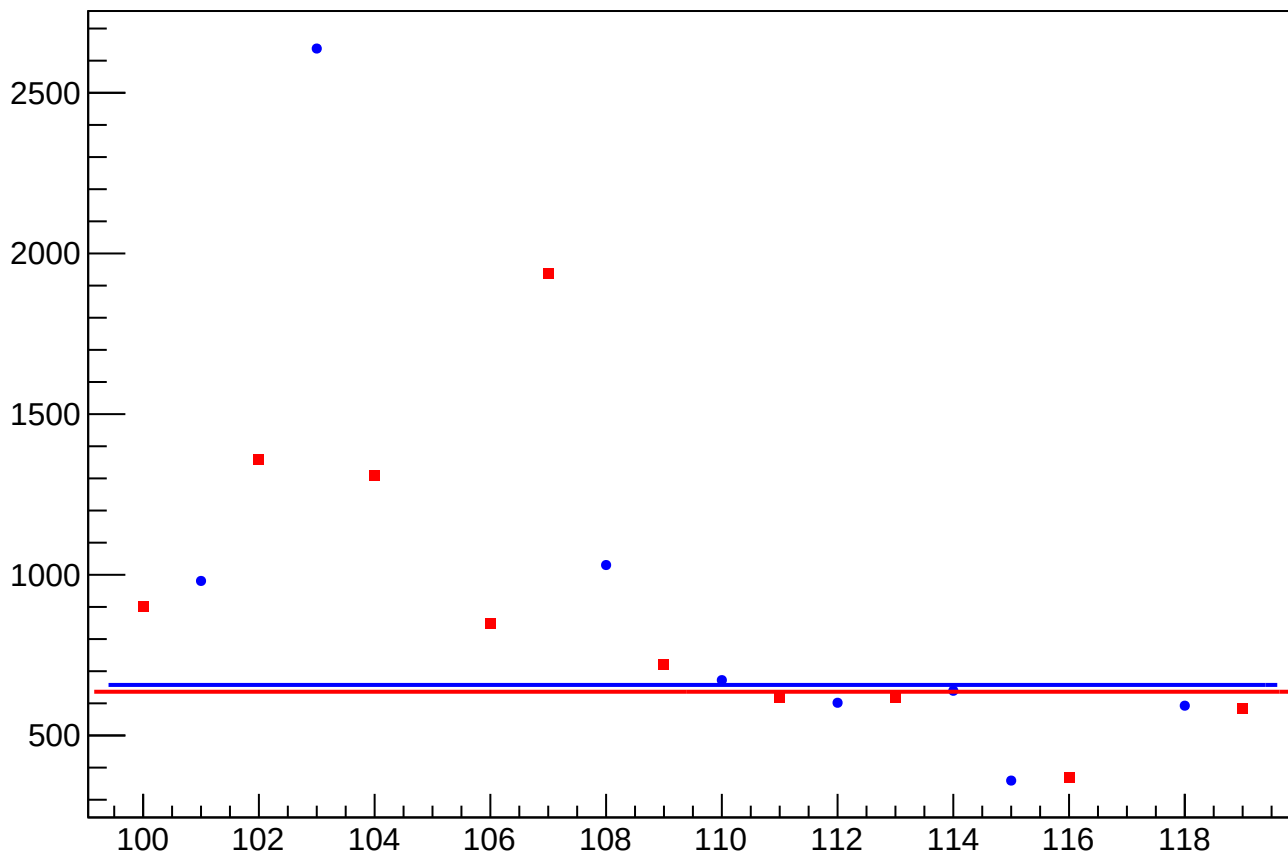
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -282.508+/-263.945  $\chi^2/\text{NDF}$ : 21.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_reg\_correction\_rms vs Slug



Right In: 657.310+/-0.283  $\chi^2/\text{NDF}$ : 1007046.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 636.090+/-0.248  $\chi^2/\text{NDF}$ : 1058146.3/9

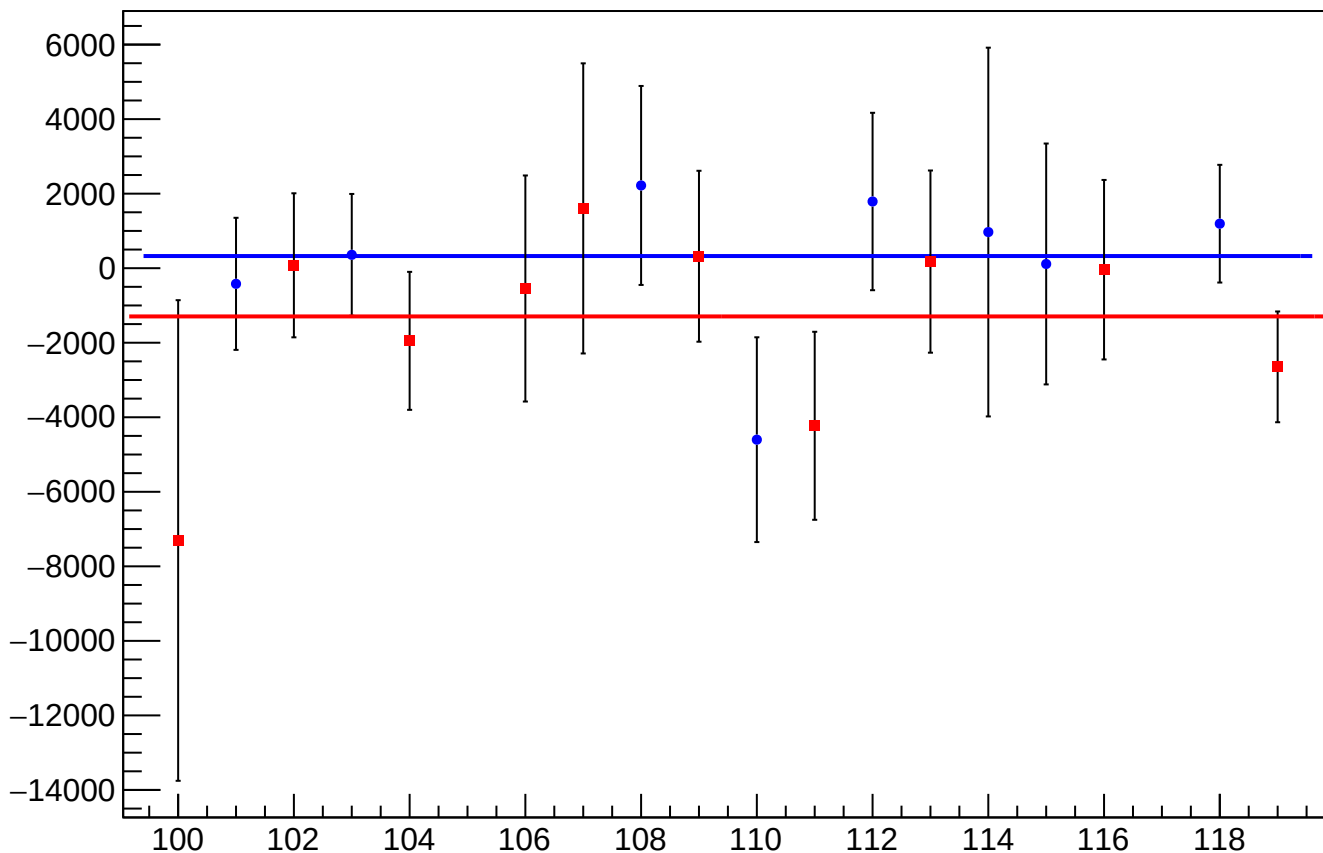
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 645.321+/-0.187  $\chi^2/\text{NDF}$ : 2068370.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usl\_atl1\_dd\_mean vs Slug



Right In: 326.060+/-771.530  $\chi^2/\text{NDF}$ : 4.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1294.290+/-725.836  $\chi^2/\text{NDF}$ : 5.4/9

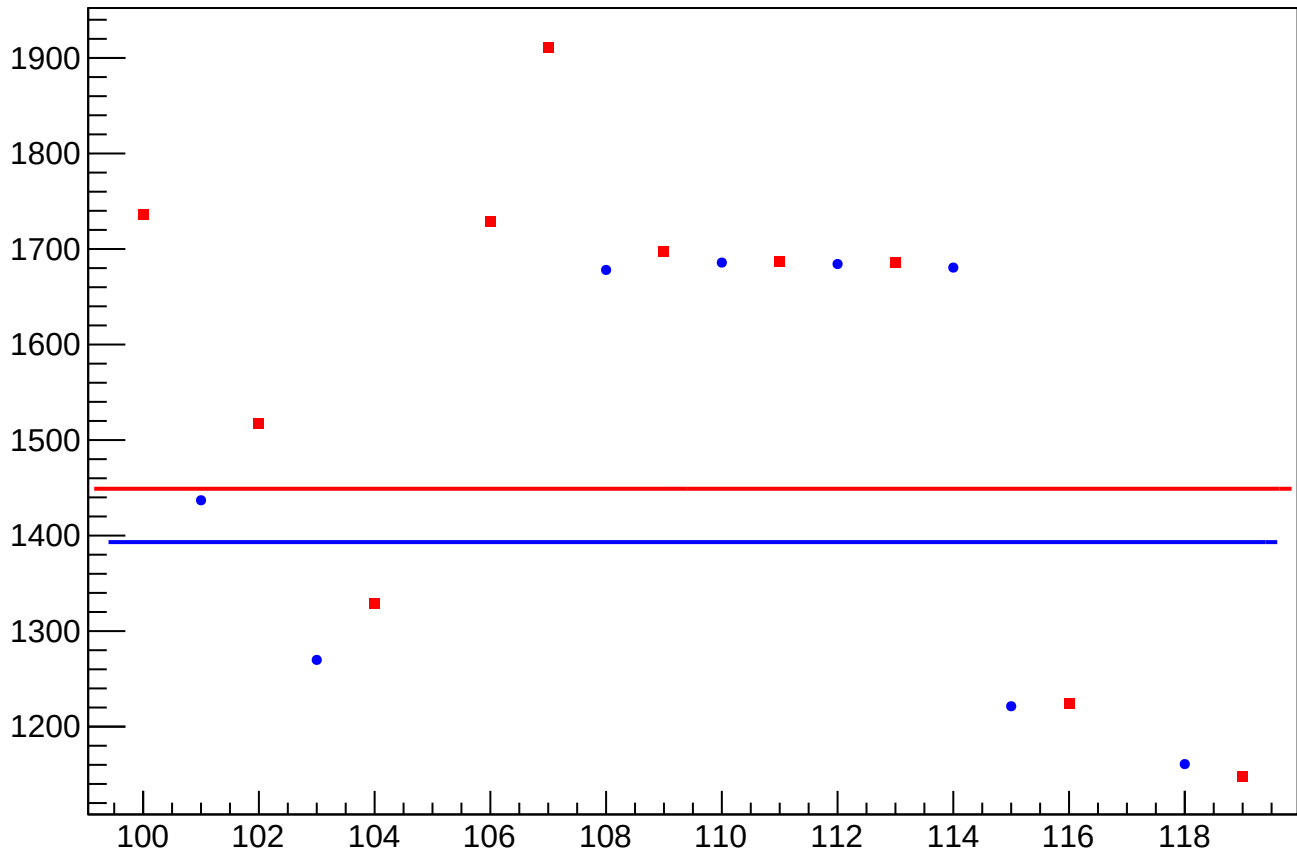
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -533.516+/-528.659  $\chi^2/\text{NDF}$ : 12.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1393.166+/-0.546  $\chi^2/\text{NDF}$ : 143711.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1449.035+/-0.513  $\chi^2/\text{NDF}$ : 219907.2/9

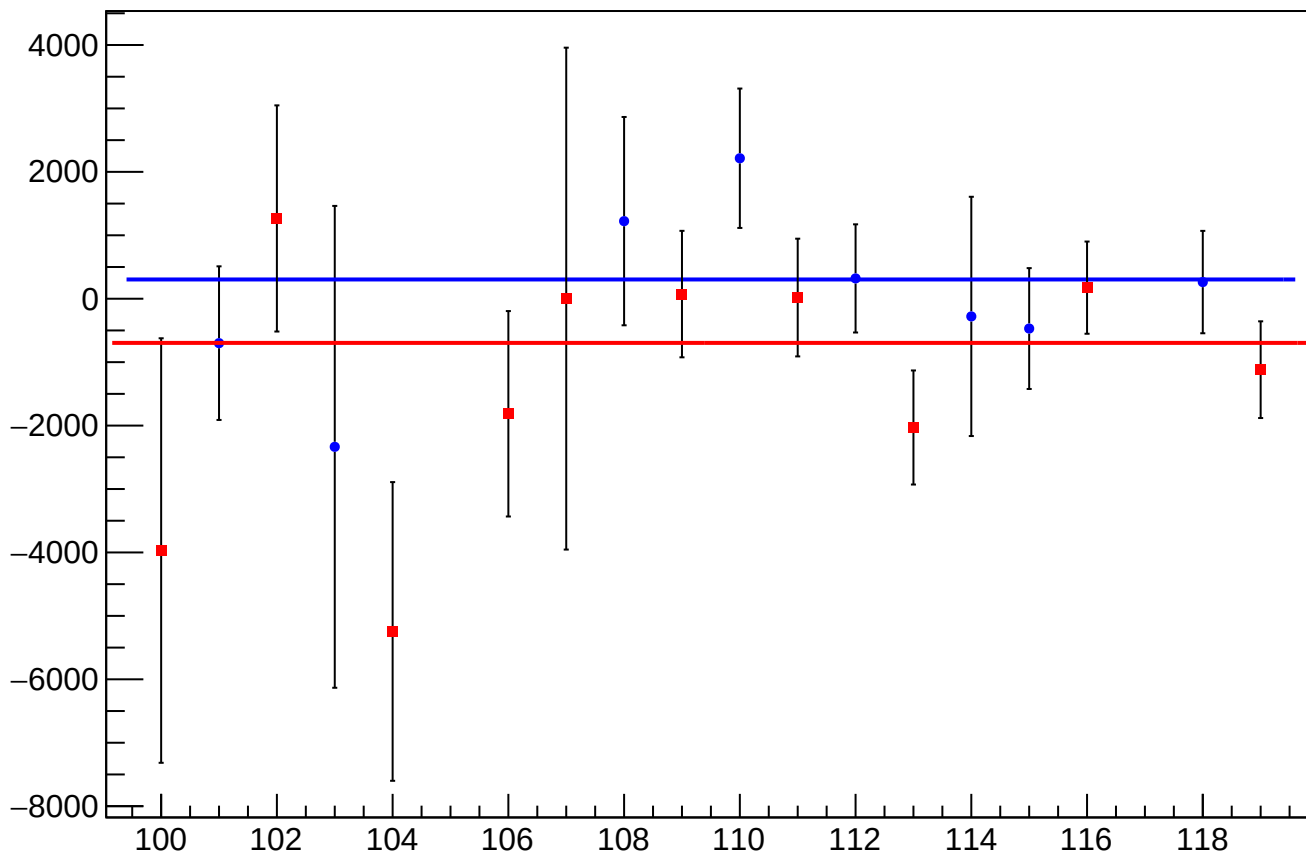
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1422.804+/-0.374  $\chi^2/\text{NDF}$ : 369181.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_cor\_correction\_mean vs Slug



Right In: 303.580+/-400.186  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -696.387+/-352.503  $\chi^2/\text{NDF}$ : 11.5/9

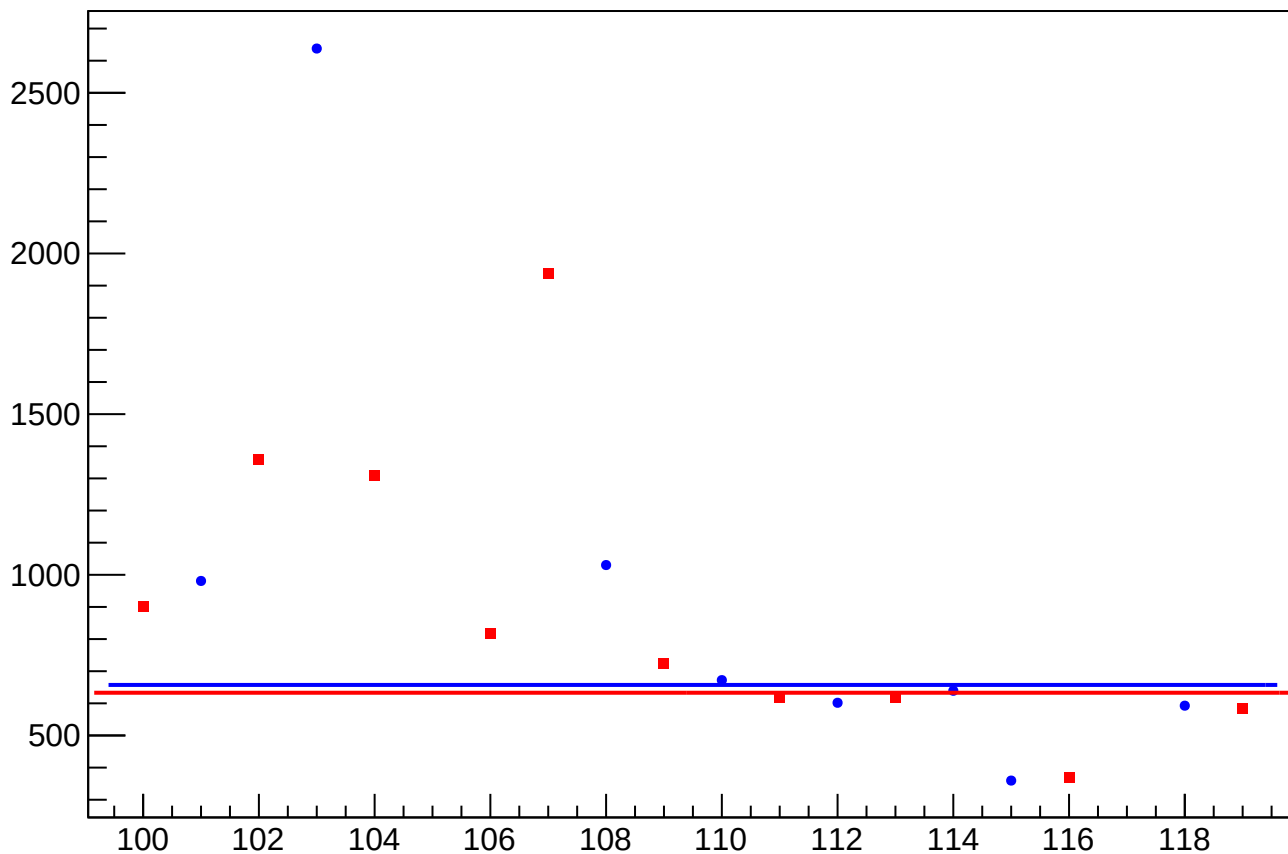
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -259.498+/-264.517  $\chi^2/\text{NDF}$ : 20.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_cor\_correction\_rms vs Slug



Right In: 657.304+/-0.283  $\chi^2/\text{NDF}$ : 1007039.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 632.987+/-0.249  $\chi^2/\text{NDF}$ : 1043349.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

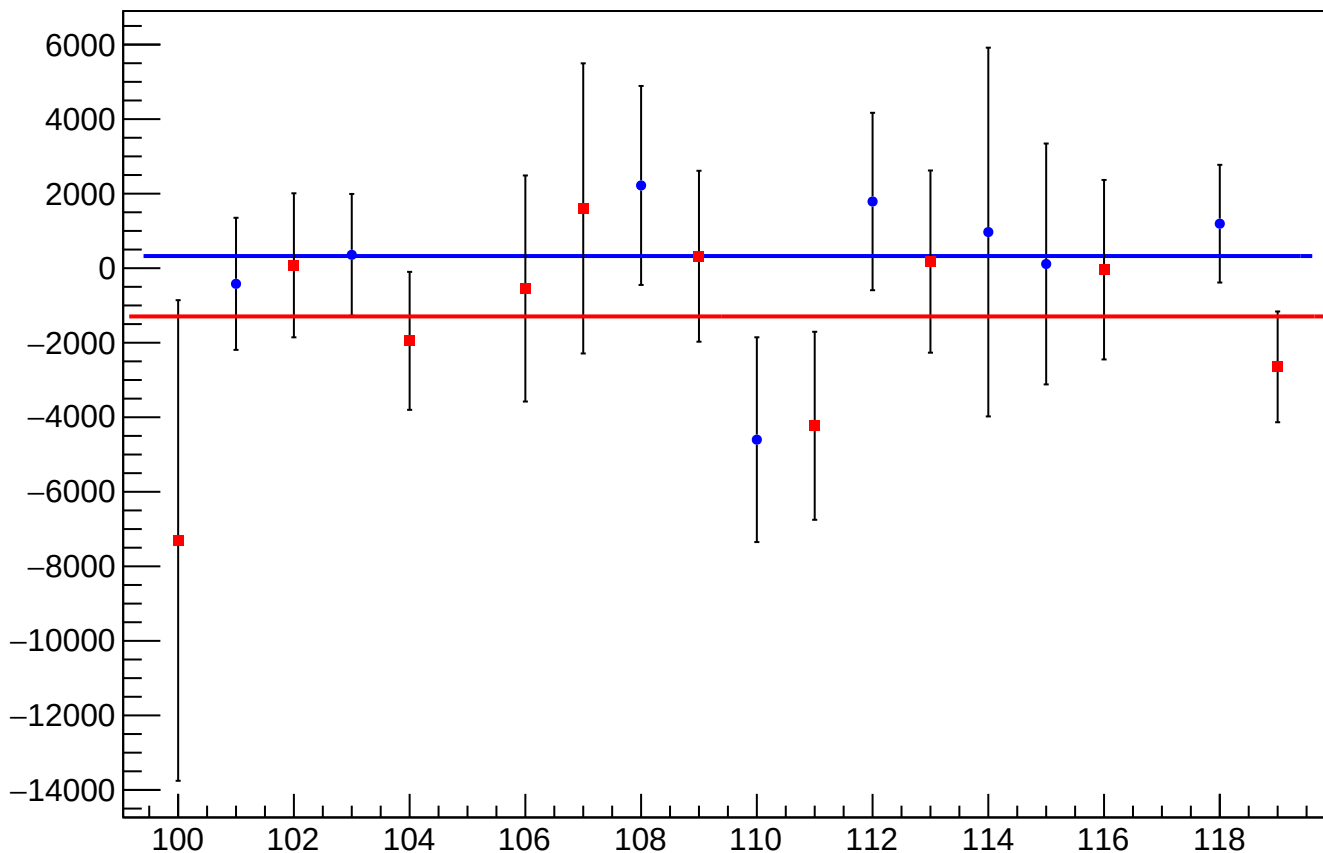
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 643.611+/-0.187  $\chi^2/\text{NDF}$ : 2054547.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_usl\_atl1\_dd\_mean vs Slug



Right In: 326.060 $\pm$ 771.530  $\chi^2$ /NDF: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1294.290 $\pm$ 725.836  $\chi^2$ /NDF: 5.4/9

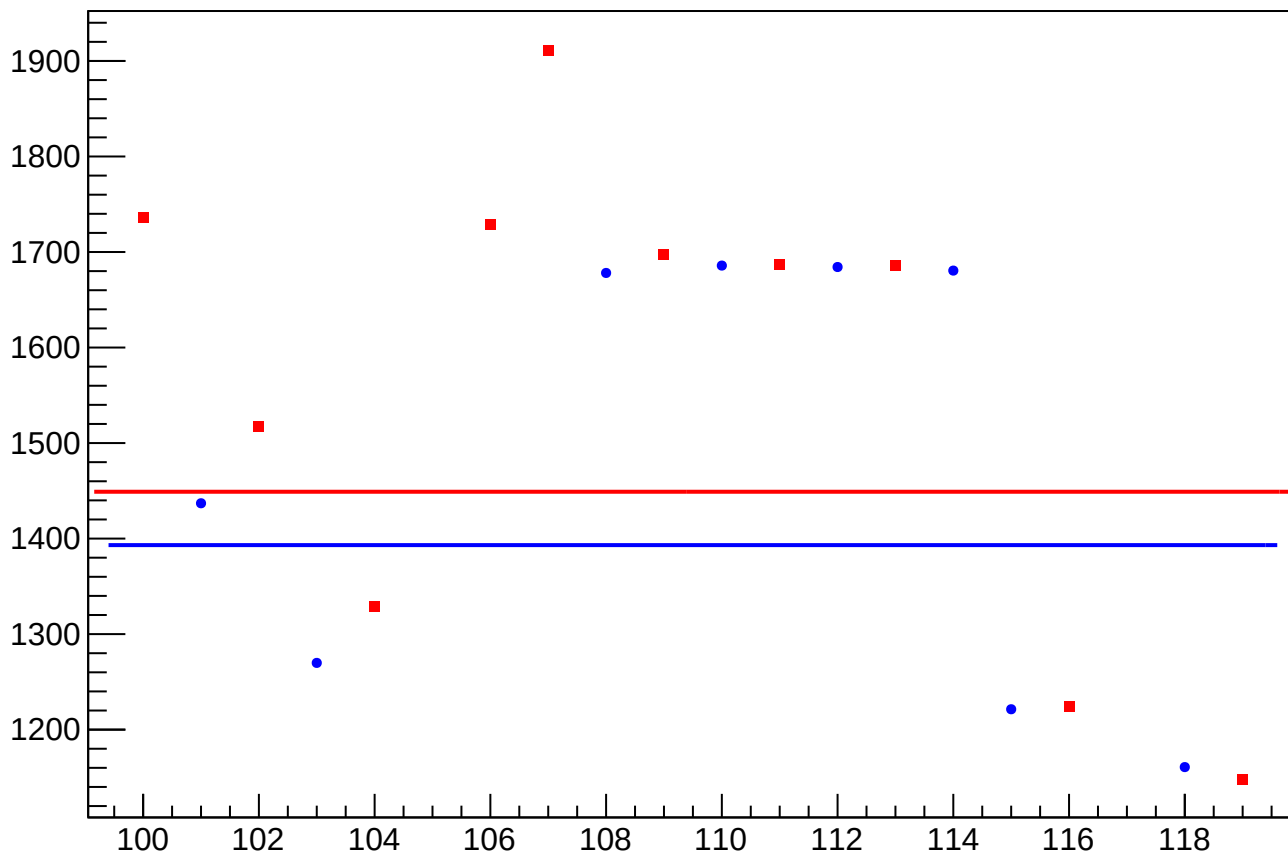
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -533.516 $\pm$ 528.659  $\chi^2$ /NDF: 12.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1393.166 $\pm$ 0.546  $\chi^2$ /NDF: 143711.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1449.035 $\pm$ 0.513  $\chi^2$ /NDF: 219907.2/9

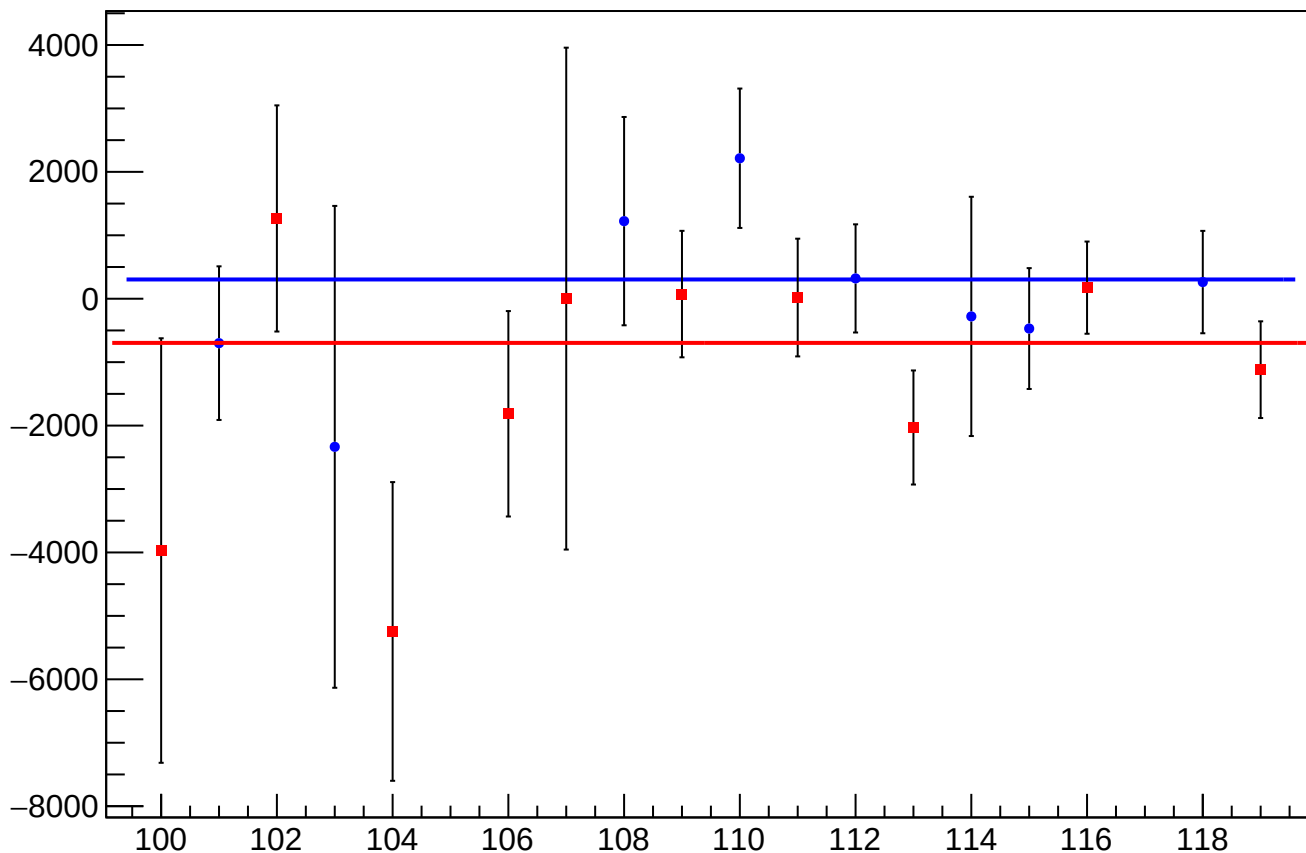
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1422.804 $\pm$ 0.374  $\chi^2$ /NDF: 369181.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 303.580+/-400.186  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -696.387+/-352.503  $\chi^2/\text{NDF}$ : 11.5/9

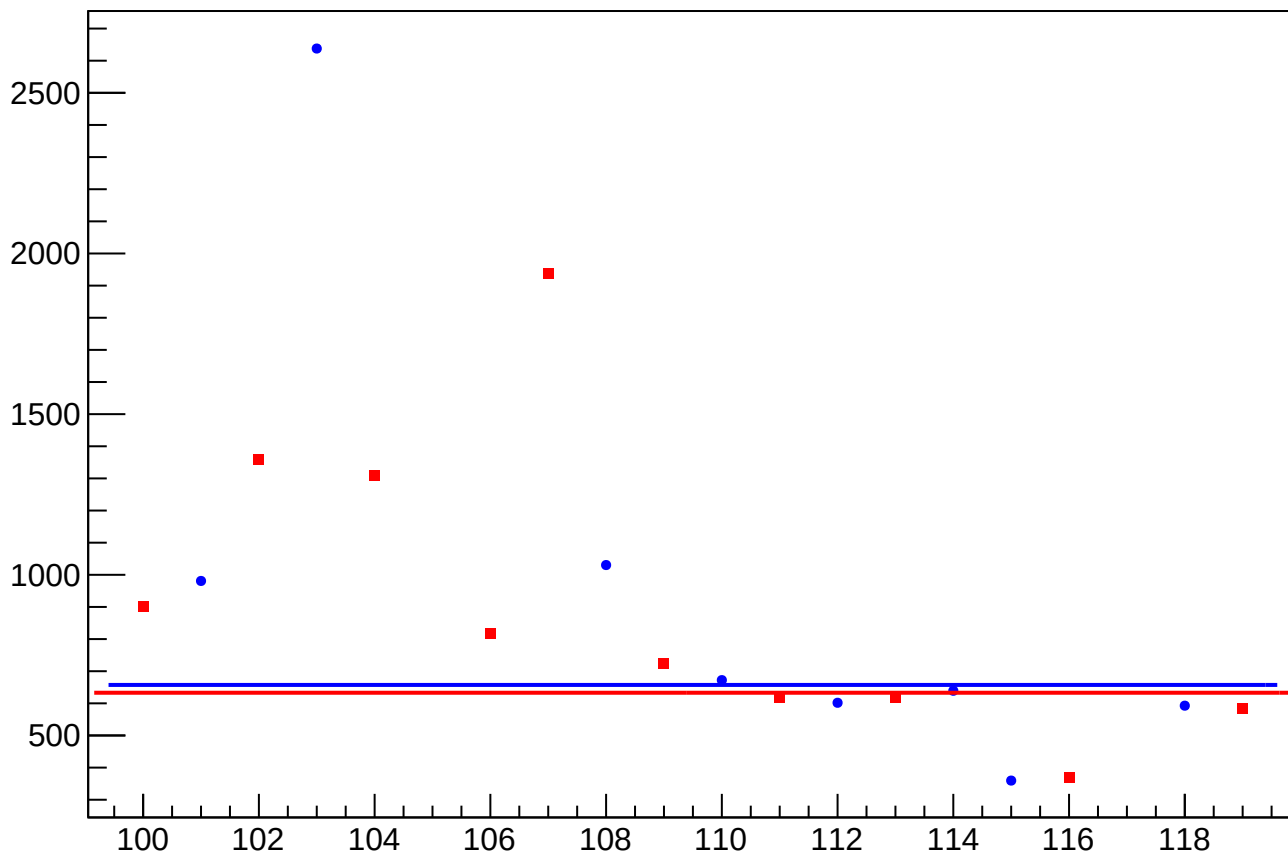
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -259.498+/-264.517  $\chi^2/\text{NDF}$ : 20.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 657.304+/-0.283  $\chi^2/\text{NDF}$ : 1007039.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 632.987+/-0.249  $\chi^2/\text{NDF}$ : 1043349.7/9

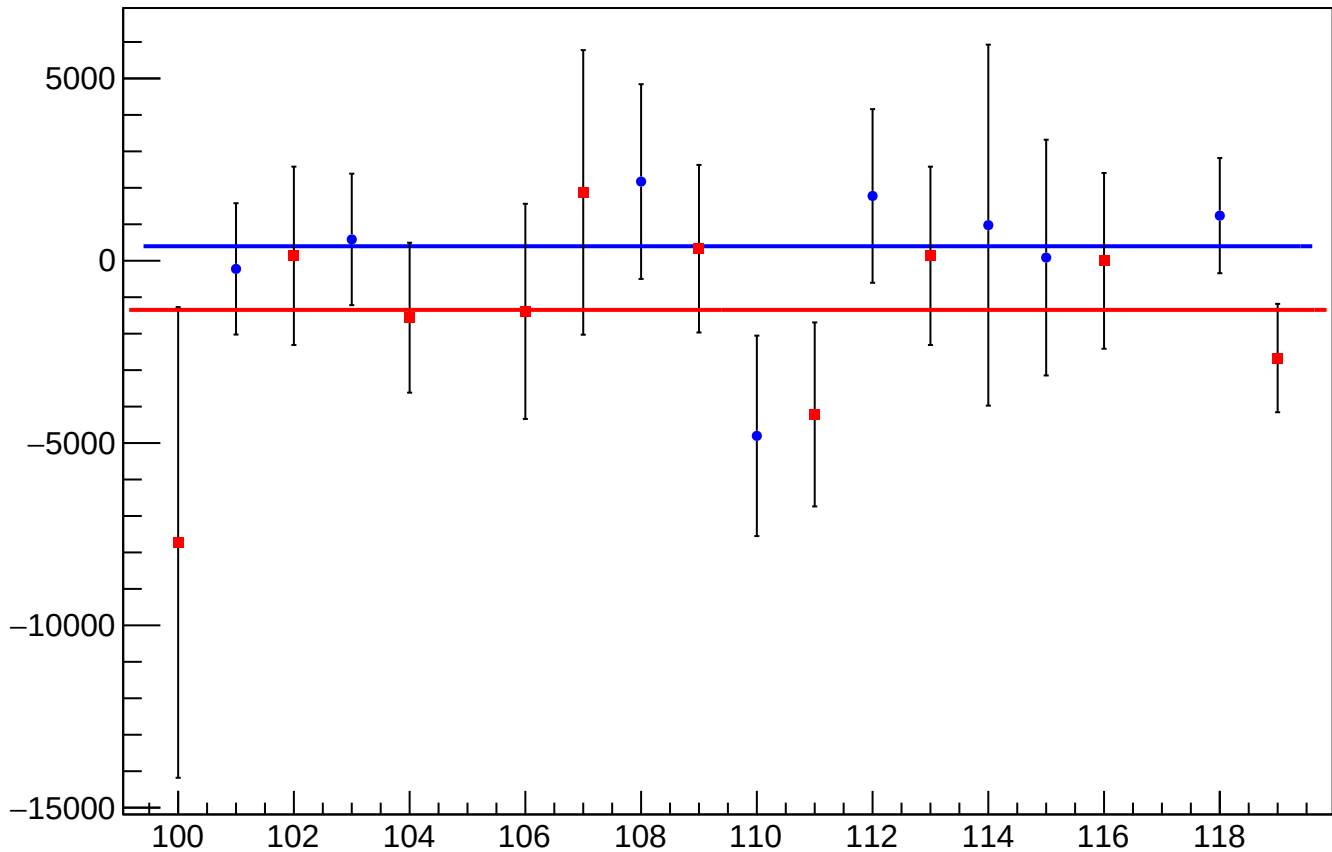
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 643.611+/-0.187  $\chi^2/\text{NDF}$ : 2054547.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usl\_atl1\_dd\_mean vs Slug



Right In:  $397.907 \pm 790.039$   $\chi^2/\text{NDF}$ : 4.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1347.643 \pm 756.691$   $\chi^2/\text{NDF}$ : 5.3/9

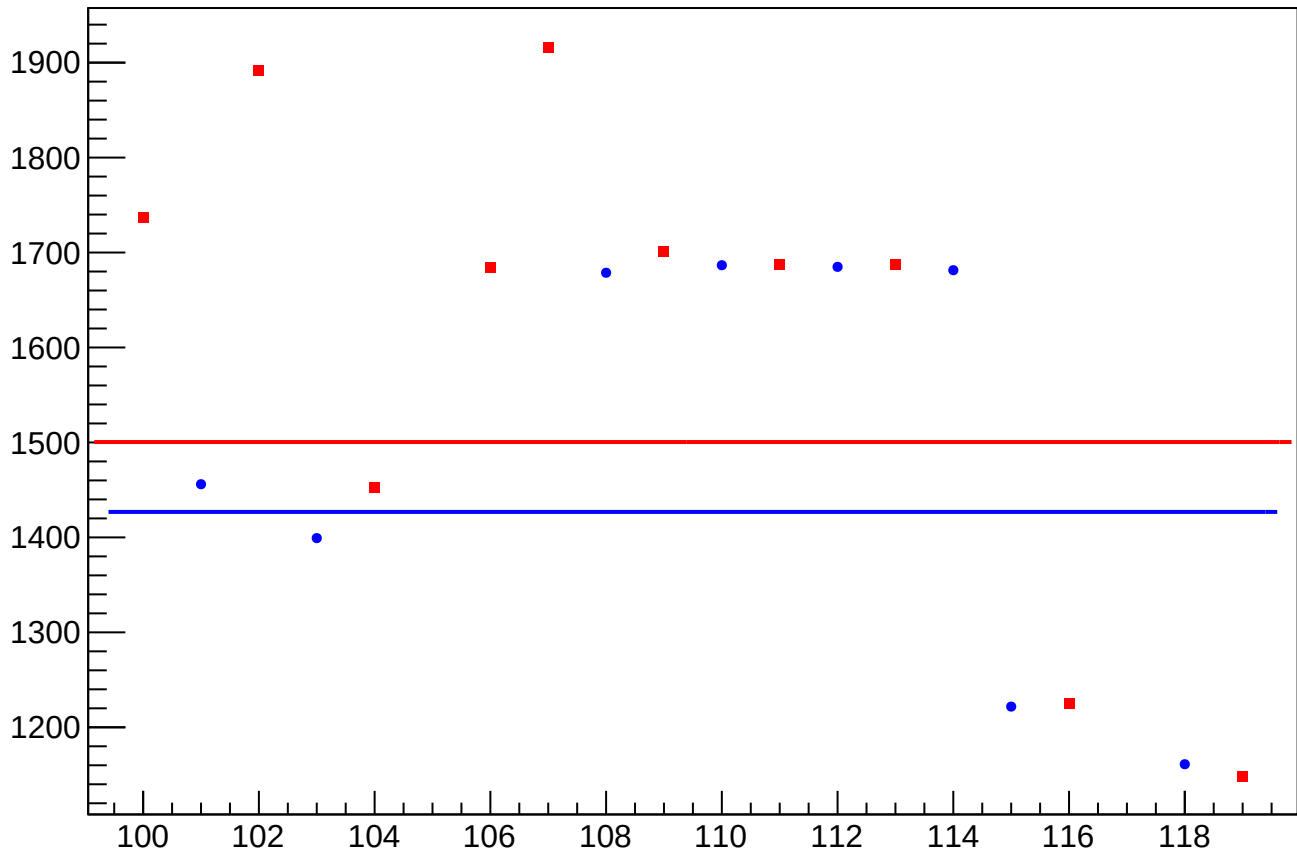
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-512.484 \pm 546.470$   $\chi^2/\text{NDF}$ : 12.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1426.837 $\pm$ 0.559  $\chi^2$ /NDF: 130074.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1500.431 $\pm$ 0.535  $\chi^2$ /NDF: 261834.5/9

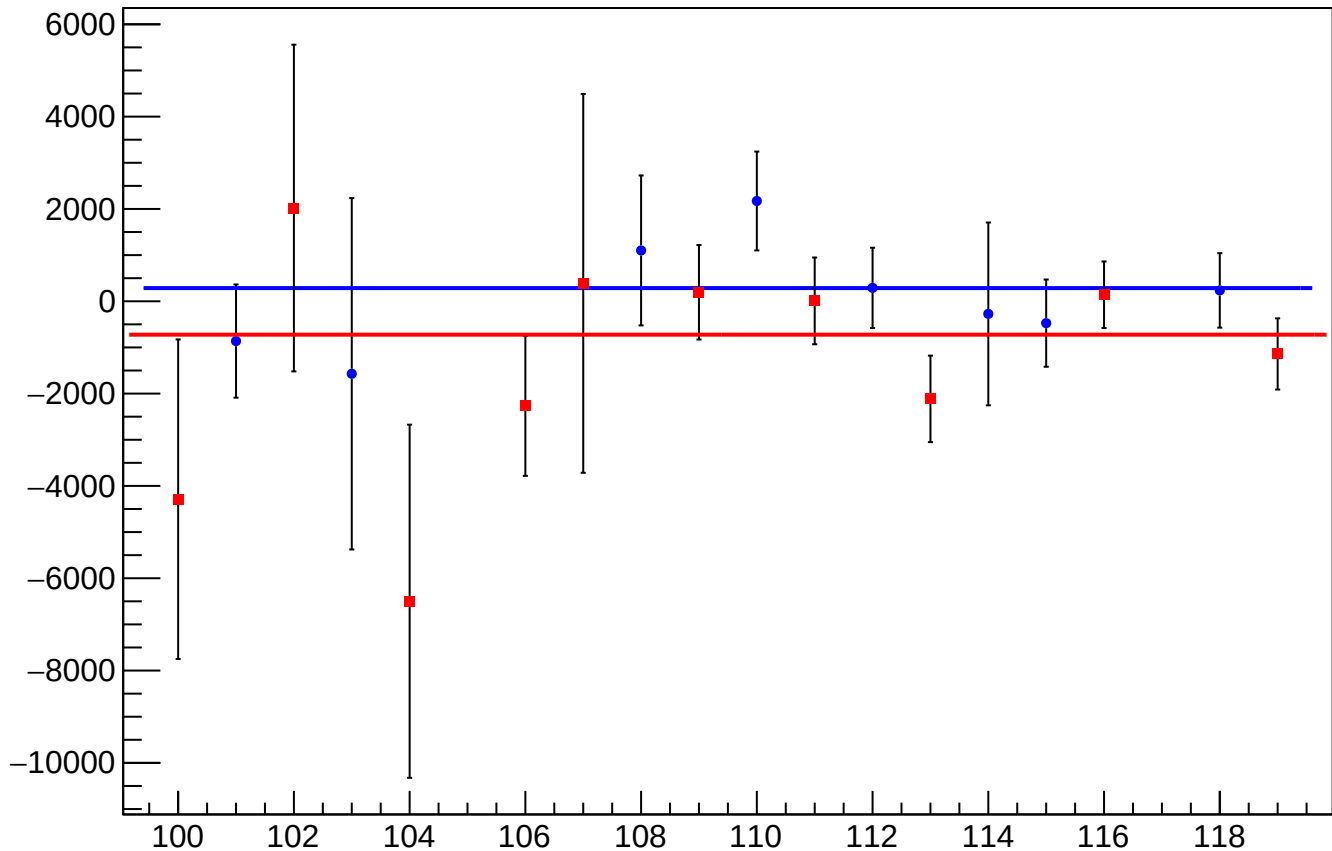
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1465.220 $\pm$ 0.386  $\chi^2$ /NDF: 400960.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_dd\_dit\_correction\_mean vs Slug



Right In: 285.550+/-400.947  $\chi^2/\text{NDF}$ : 5.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -723.551+/-363.849  $\chi^2/\text{NDF}$ : 10.4/9

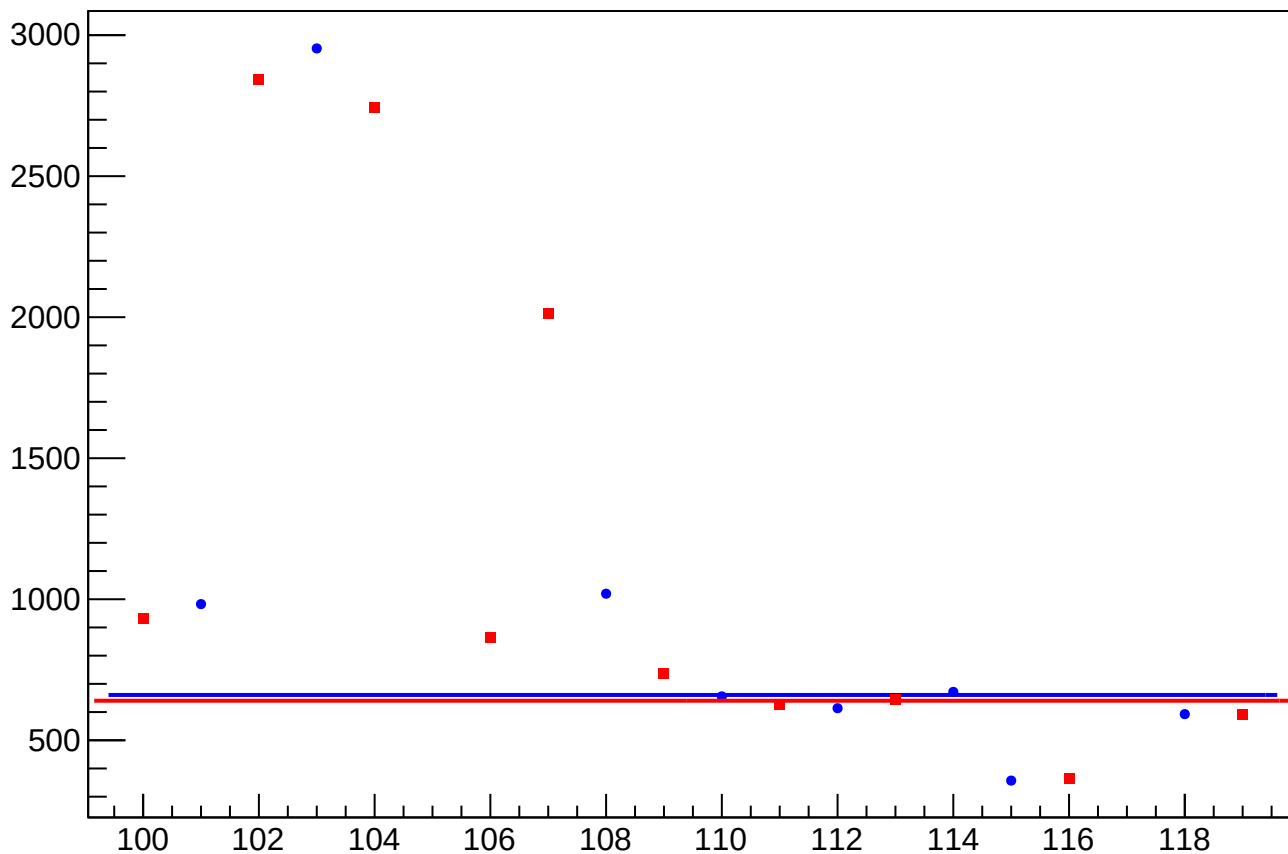
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -267.834+/-269.443  $\chi^2/\text{NDF}$ : 19.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_dit\_correction\_rms vs Slug



Right In: 660.665+/-0.284  $\chi^2/\text{NDF}$ : 1187934.4/7

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: 640.226+/-0.257  $\chi^2/\text{NDF}$ : 1976418.7/9

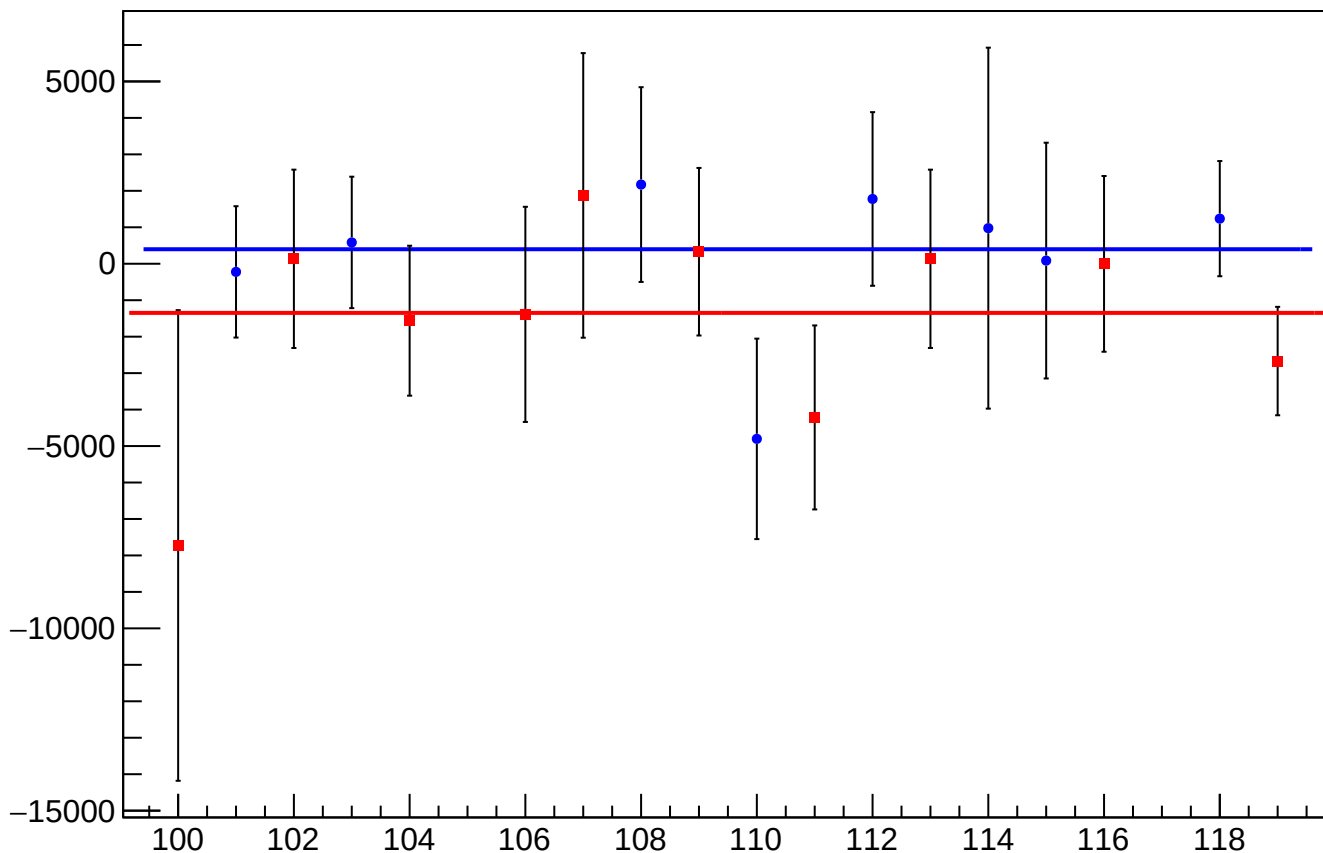
All: 649.456+/-0.191  $\chi^2/\text{NDF}$ : 3167203.4/17

- 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\_dd\_mean vs Slug



Right In:  $397.909 \pm 790.038$   $\chi^2/\text{NDF}$ : 4.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1347.642 \pm 756.691$   $\chi^2/\text{NDF}$ : 5.3/9

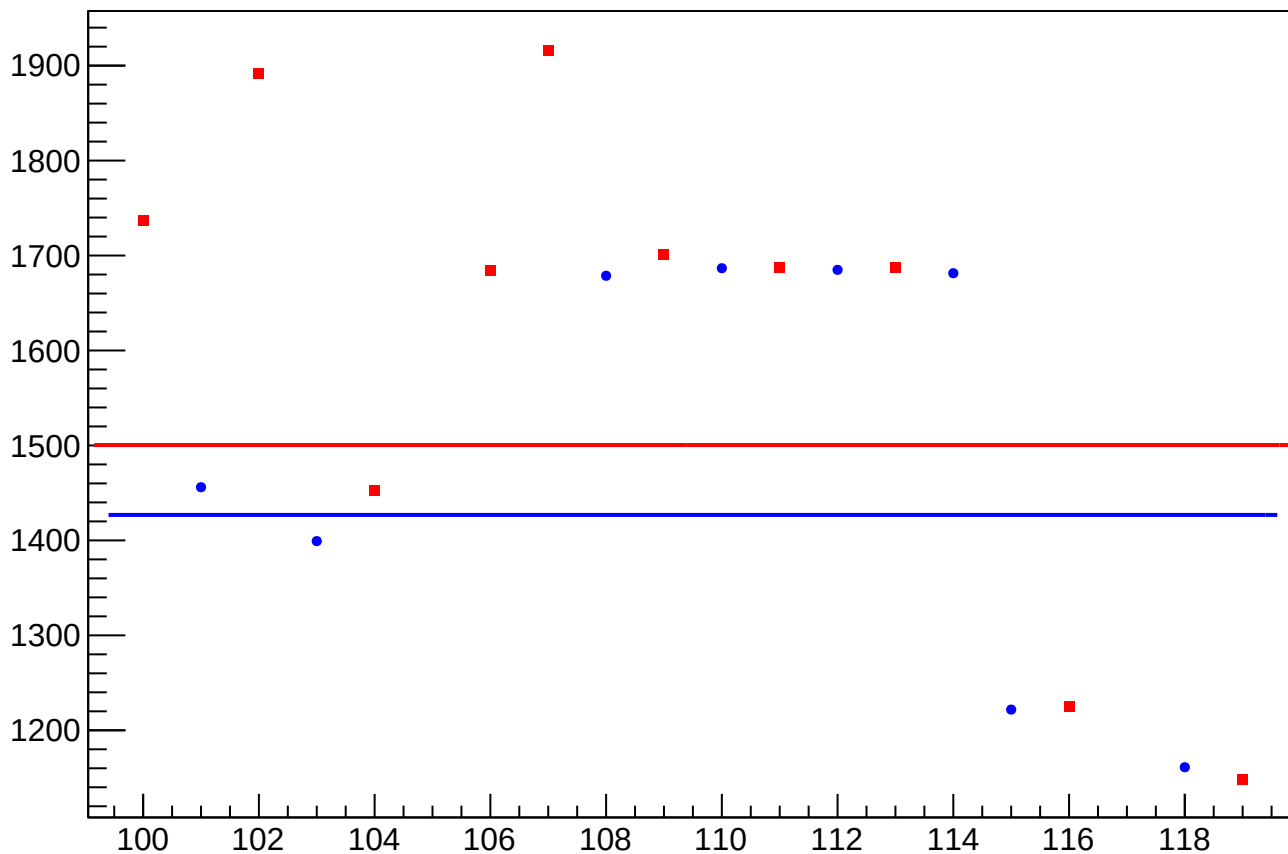
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-512.483 \pm 546.470$   $\chi^2/\text{NDF}$ : 12.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1426.837 $\pm$ 0.559  $\chi^2$ /NDF: 130074.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1500.431 $\pm$ 0.535  $\chi^2$ /NDF: 261834.4/9

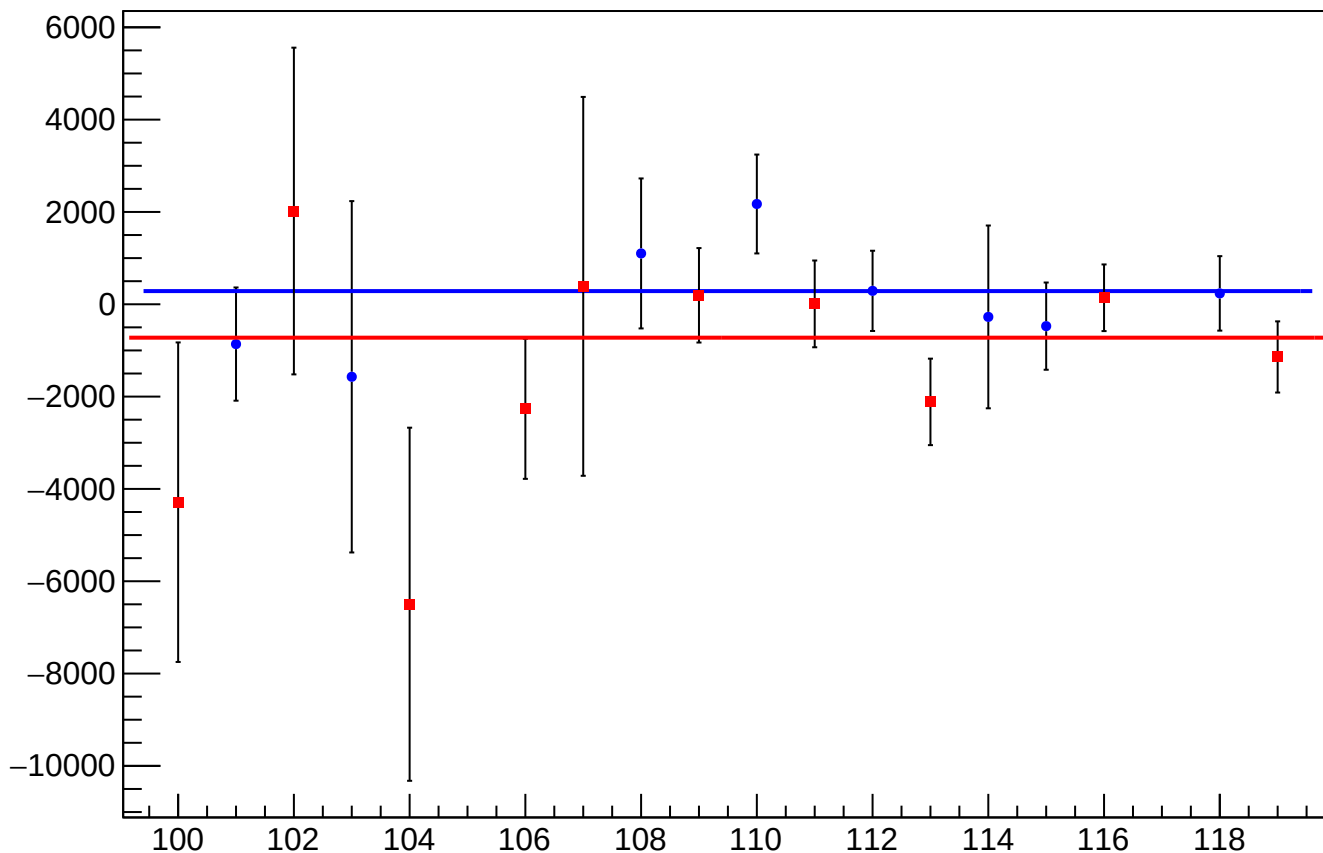
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1465.220 $\pm$ 0.386  $\chi^2$ /NDF: 400960.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 285.551+/-400.946  $\chi^2/\text{NDF}$ : 5.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -723.550+/-363.848  $\chi^2/\text{NDF}$ : 10.4/9

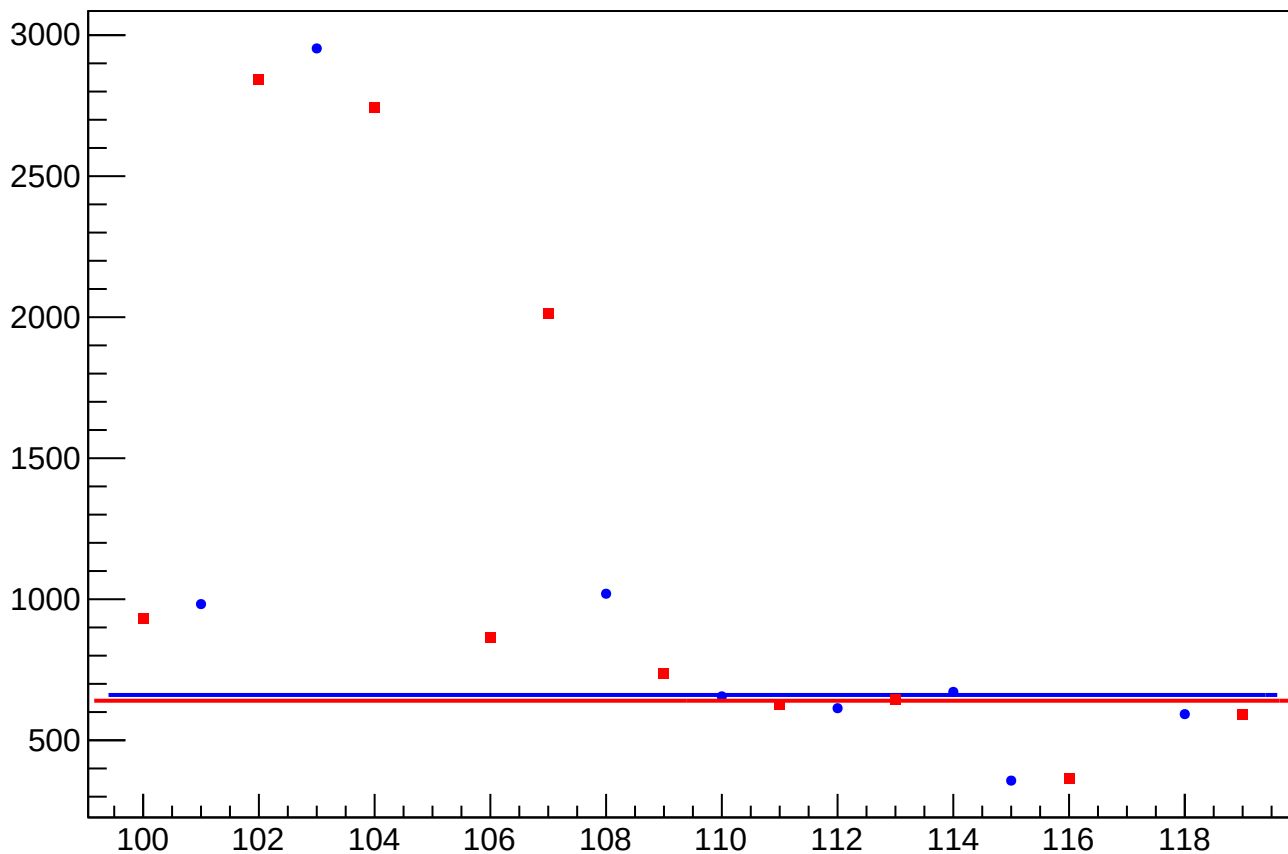
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -267.833+/-269.443  $\chi^2/\text{NDF}$ : 19.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 660.665+/-0.284  $\chi^2/\text{NDF}$ : 1187933.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 640.225+/-0.257  $\chi^2/\text{NDF}$ : 1976421.6/9

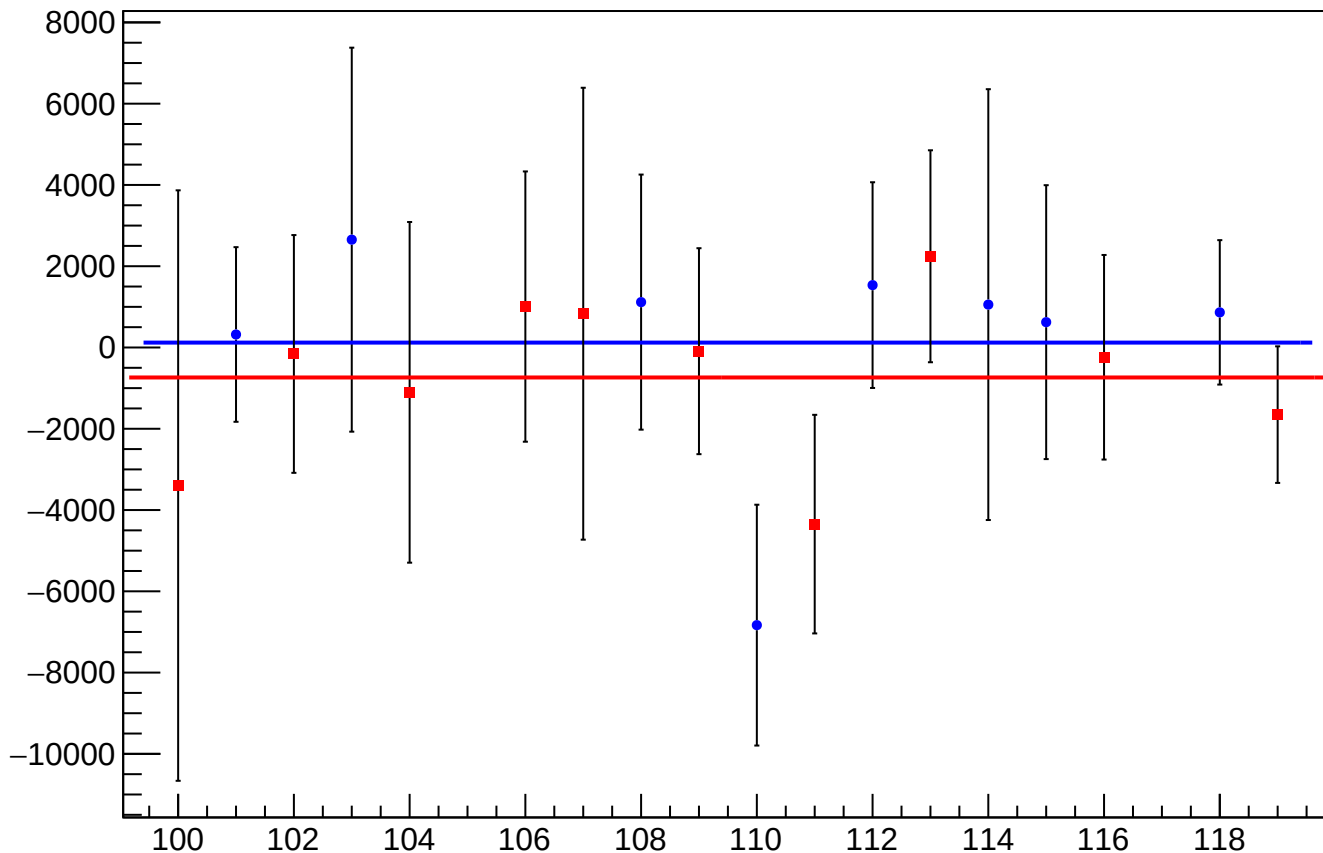
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 649.456+/-0.191  $\chi^2/\text{NDF}$ : 3167205.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_mean vs Slug



Right In: 120.498 $\pm$ 965.346  $\chi^2$ /NDF: 6.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -737.806 $\pm$ 887.922  $\chi^2$ /NDF: 4.0/9

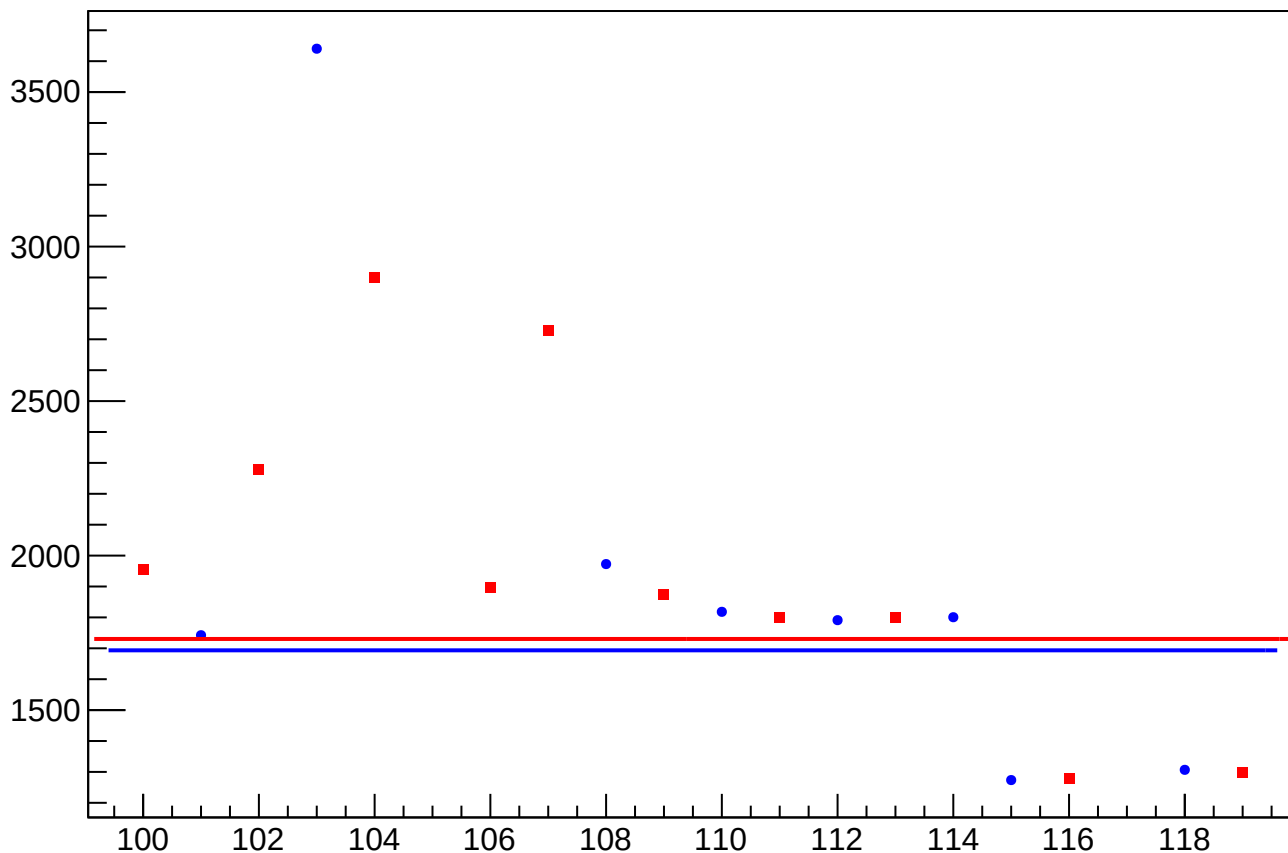
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -344.449 $\pm$ 653.515  $\chi^2$ /NDF: 10.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1693.446 $\pm$ 0.683  $\chi^2$ /NDF: 489521.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1730.233 $\pm$ 0.628  $\chi^2$ /NDF: 503015.2/9

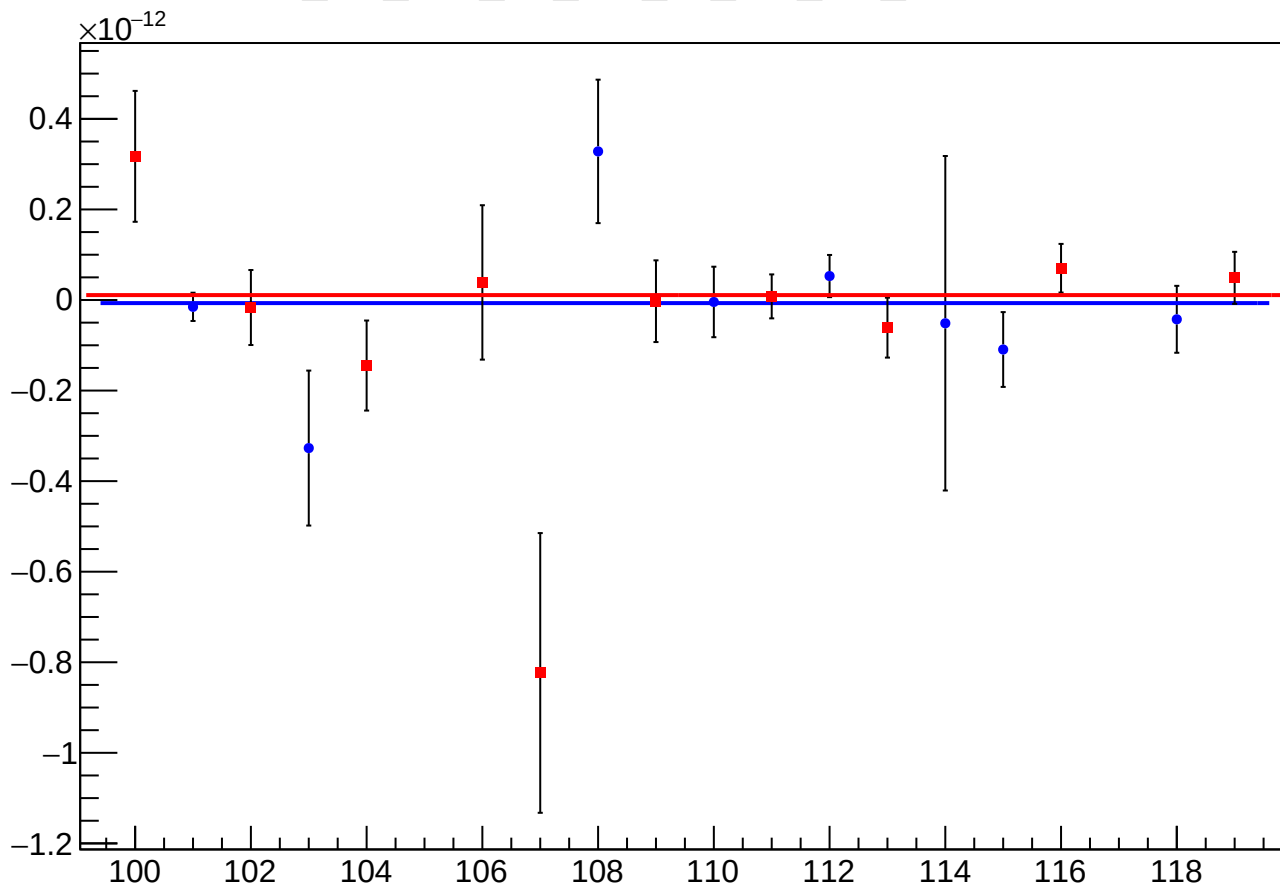
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1713.374 $\pm$ 0.462  $\chi^2$ /NDF: 994110.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.2/9

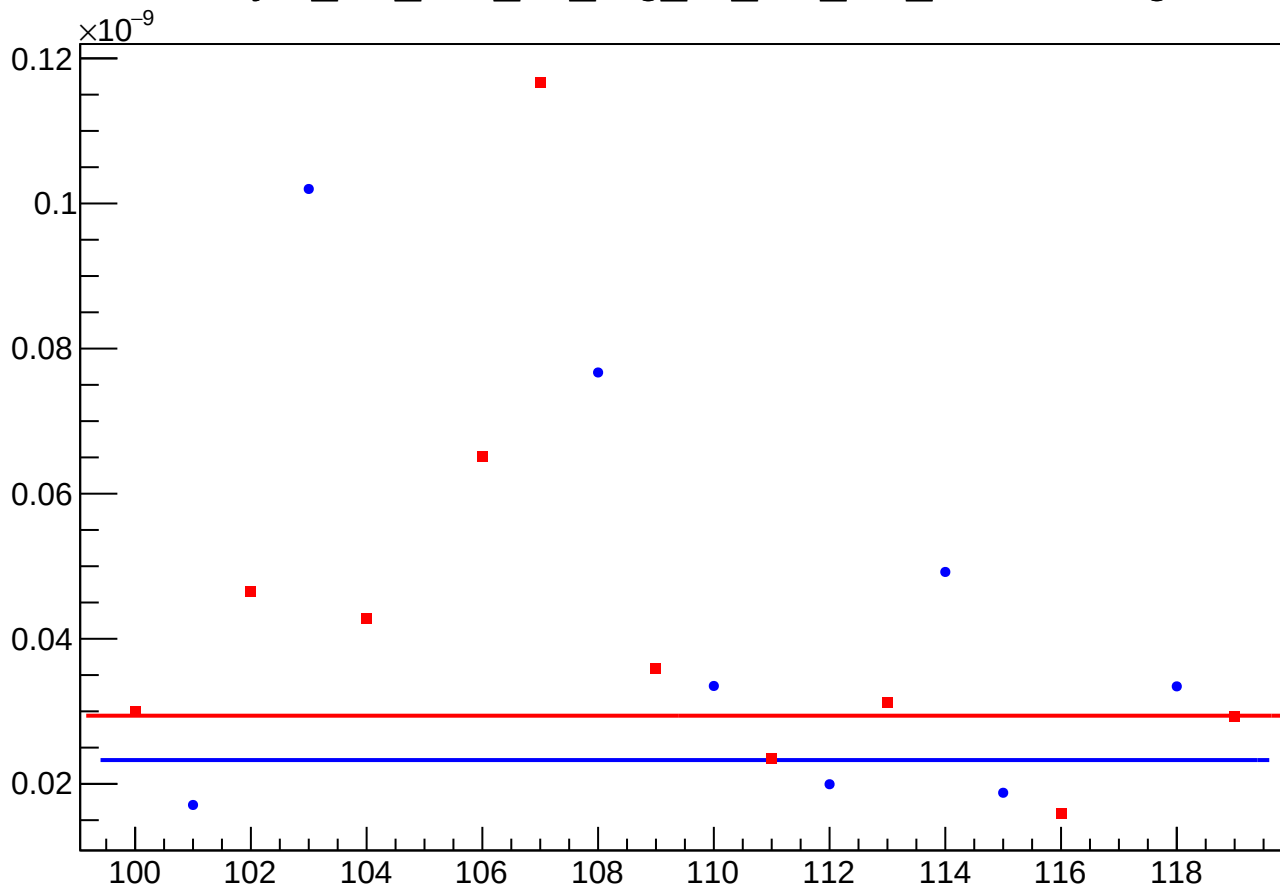
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 29.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 827630.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 536987.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

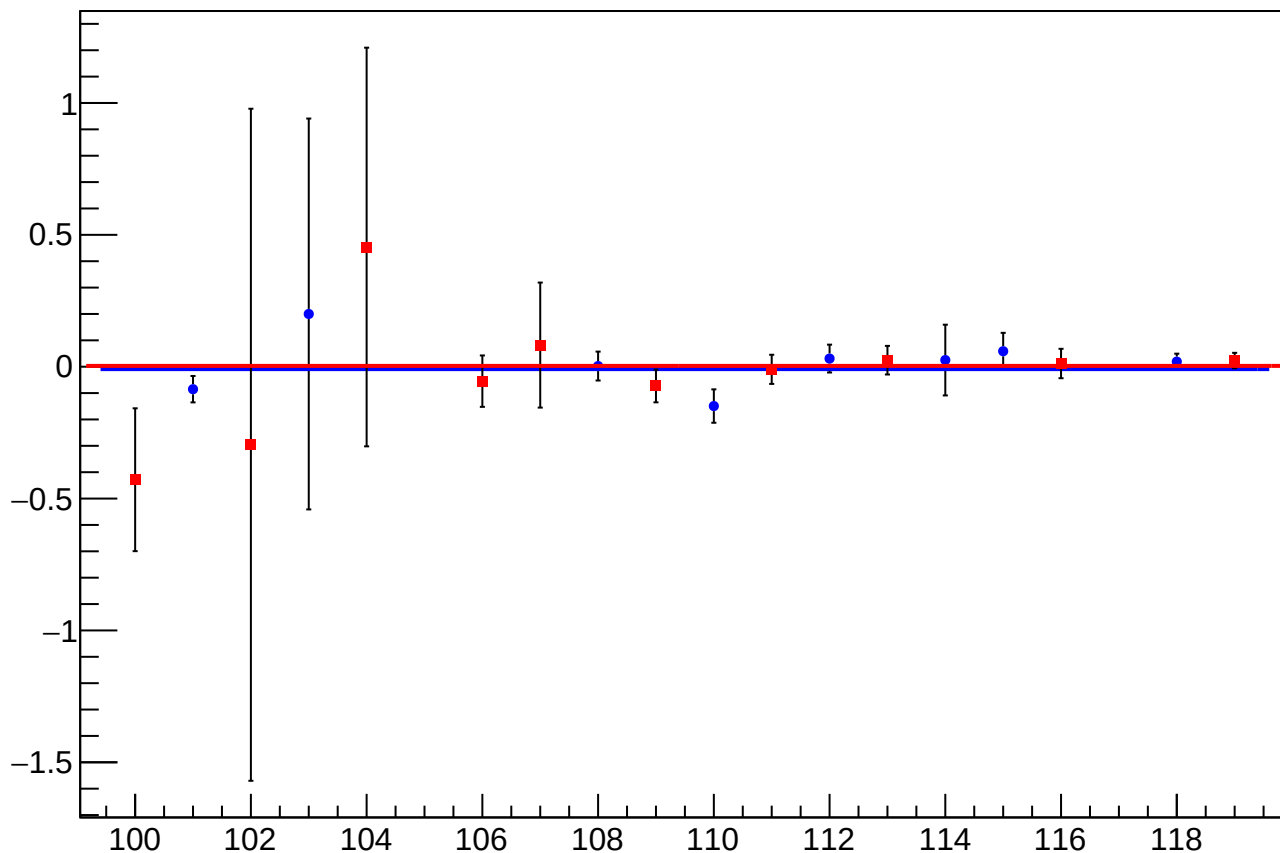
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1435806.3/17

- 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: -0.009 $\pm$ 0.019  $\chi^2$ /NDF: 9.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.003 $\pm$ 0.020  $\chi^2$ /NDF: 5.6/9

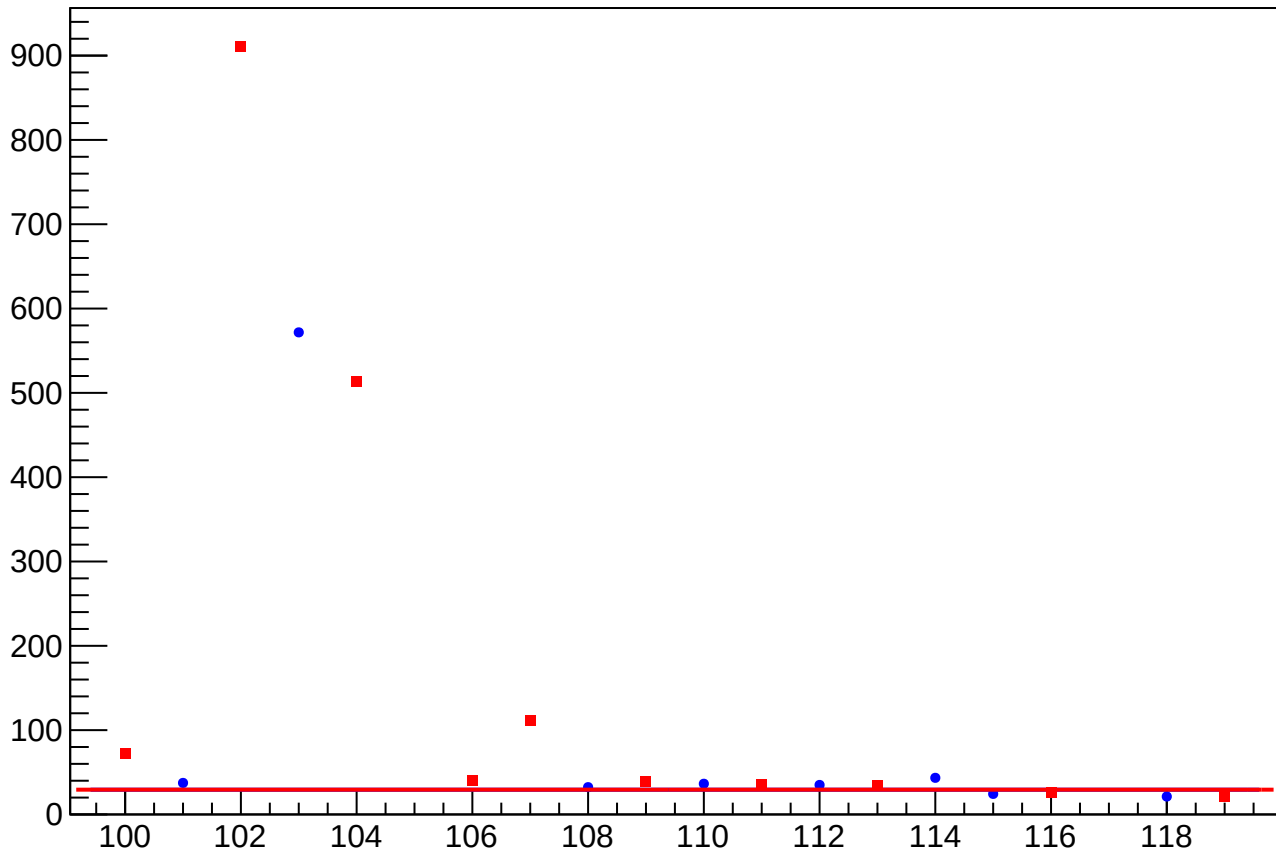
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 15.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 29.325+/-0.014  $\chi^2/\text{NDF}$ : 1352365.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.385+/-0.014  $\chi^2/\text{NDF}$ : 2357437.4/9

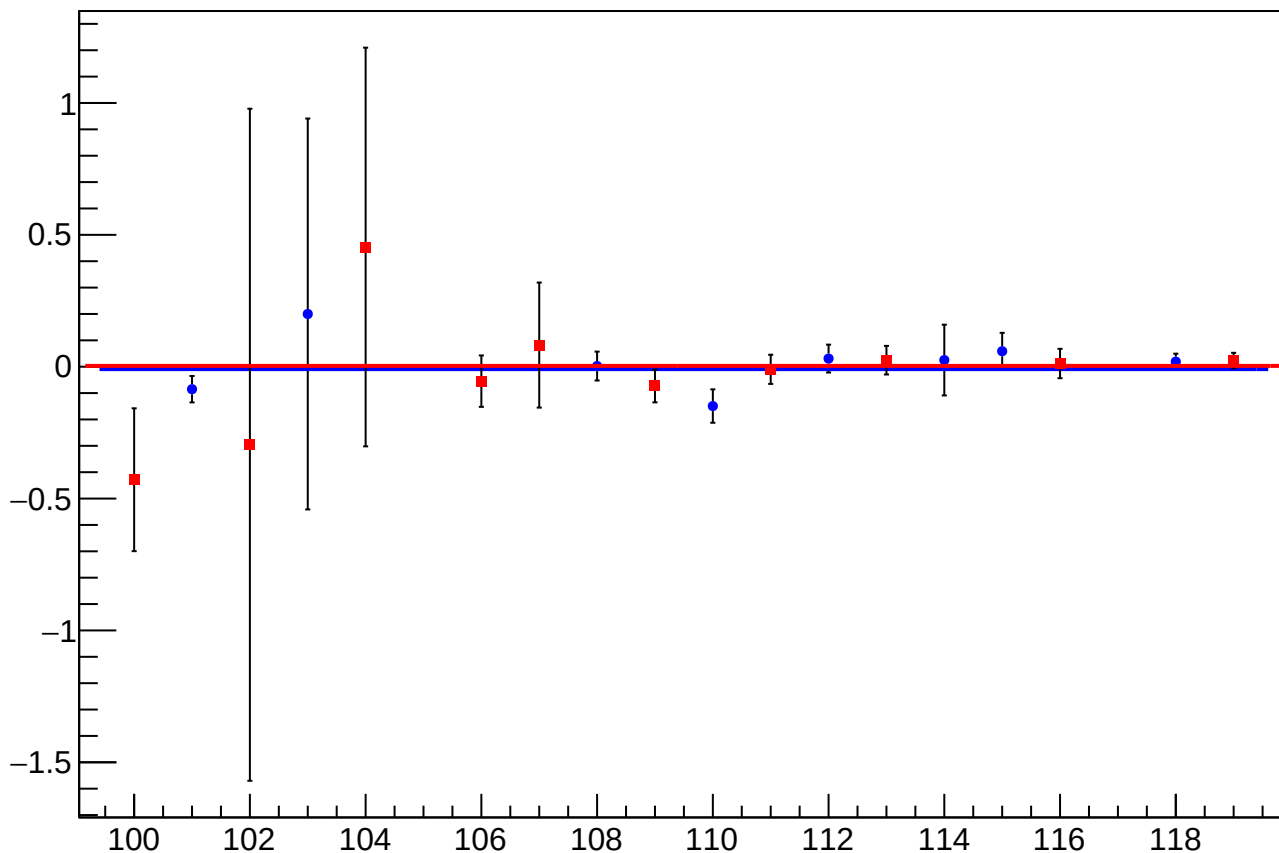
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.354+/-0.010  $\chi^2/\text{NDF}$ : 3709812.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.009 $\pm$ 0.019  $\chi^2$ /NDF: 9.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.003 $\pm$ 0.020  $\chi^2$ /NDF: 5.6/9

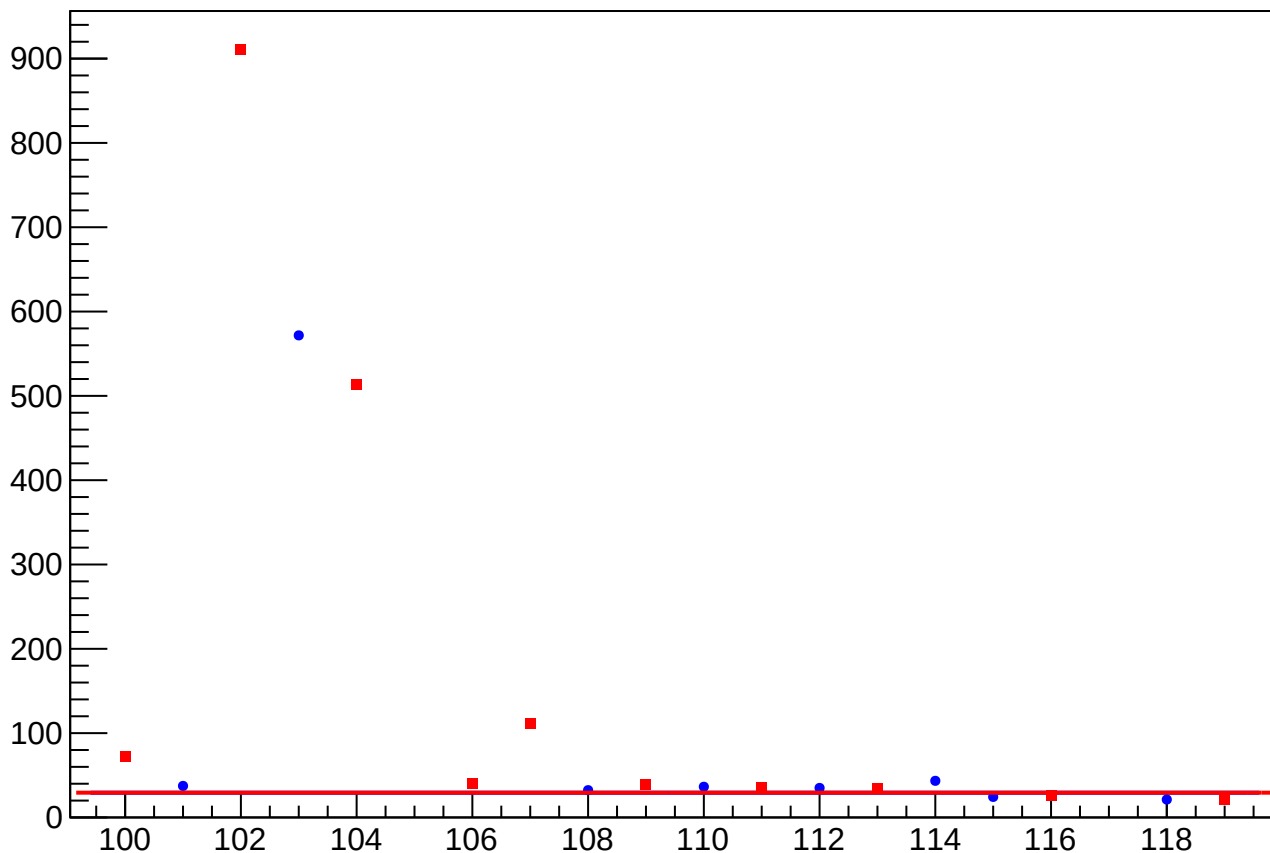
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 15.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 29.325+/-0.014  $\chi^2/\text{NDF}$ : 1352365.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.385+/-0.014  $\chi^2/\text{NDF}$ : 2357437.4/9

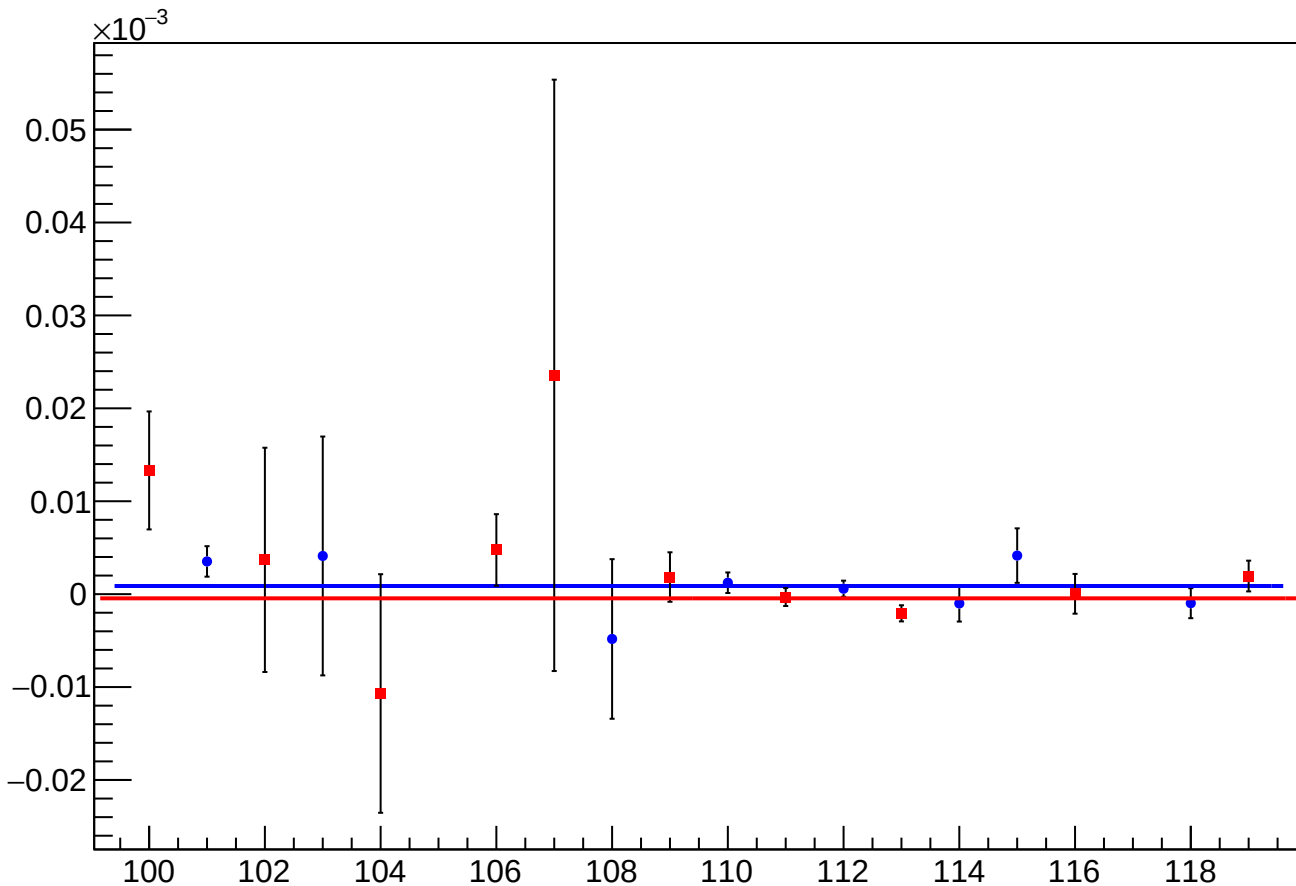
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.354+/-0.010  $\chi^2/\text{NDF}$ : 3709812.6/17

- 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+/-0.000     $\chi^2/\text{NDF}$ : 6.8/7

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Right Out:  $-0.000 \pm 0.000$      $\chi^2/\text{NDF}$ : 14.2/9

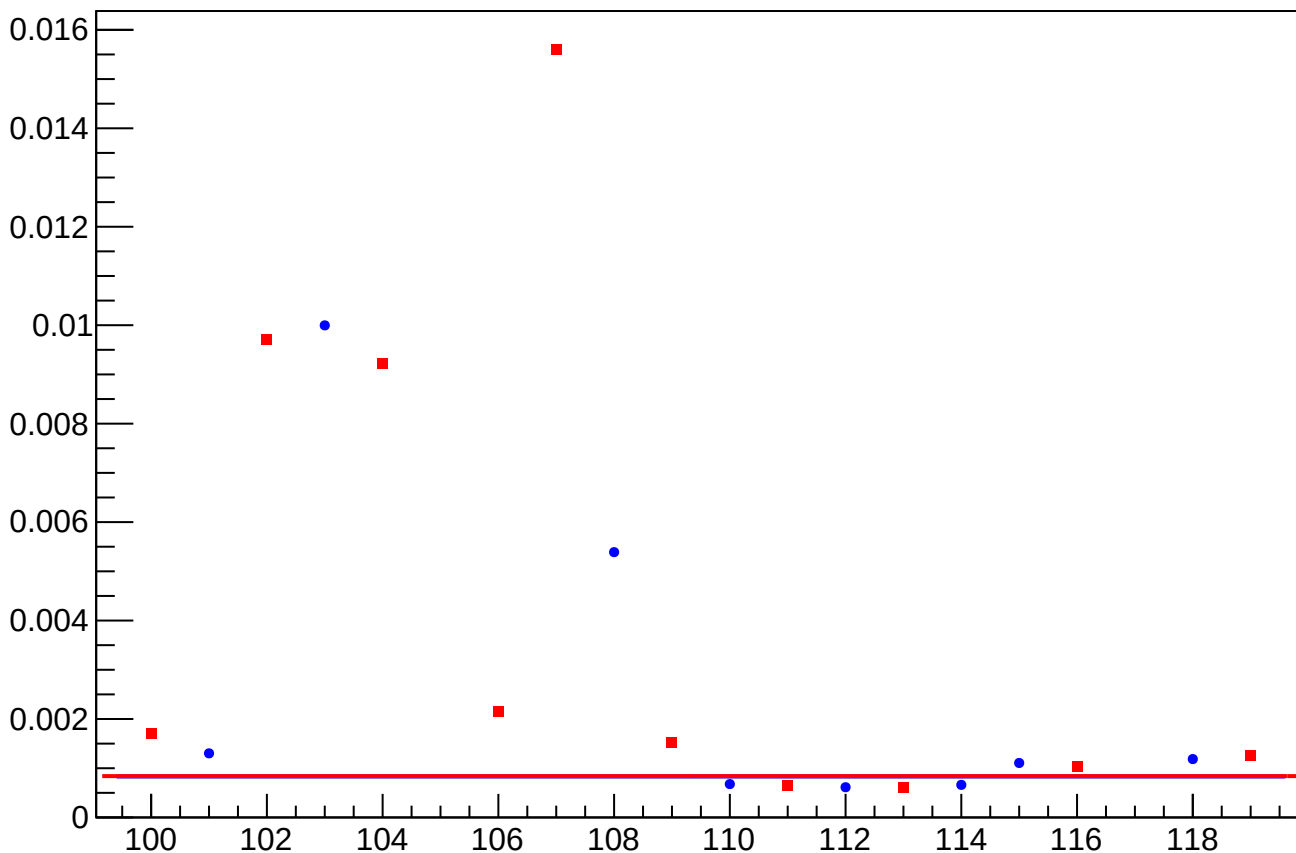
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 23.9/17

- sign 0.000+/-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  $\chi^2/\text{NDF}$ : 2038283.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3146494.9/9

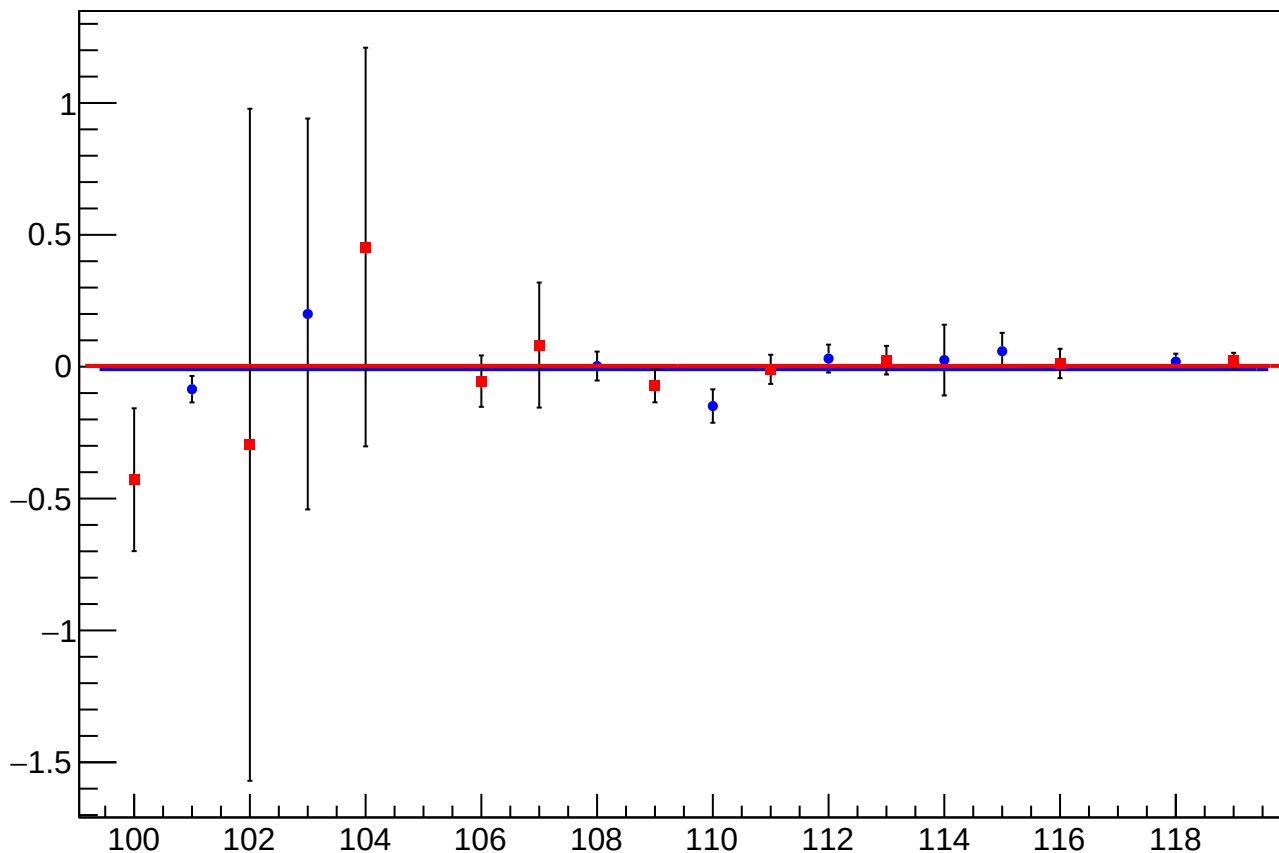
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5184981.0/17

- 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:  $-0.009 \pm 0.019$   $\chi^2/\text{NDF}$ : 9.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.003 \pm 0.020$   $\chi^2/\text{NDF}$ : 5.6/9

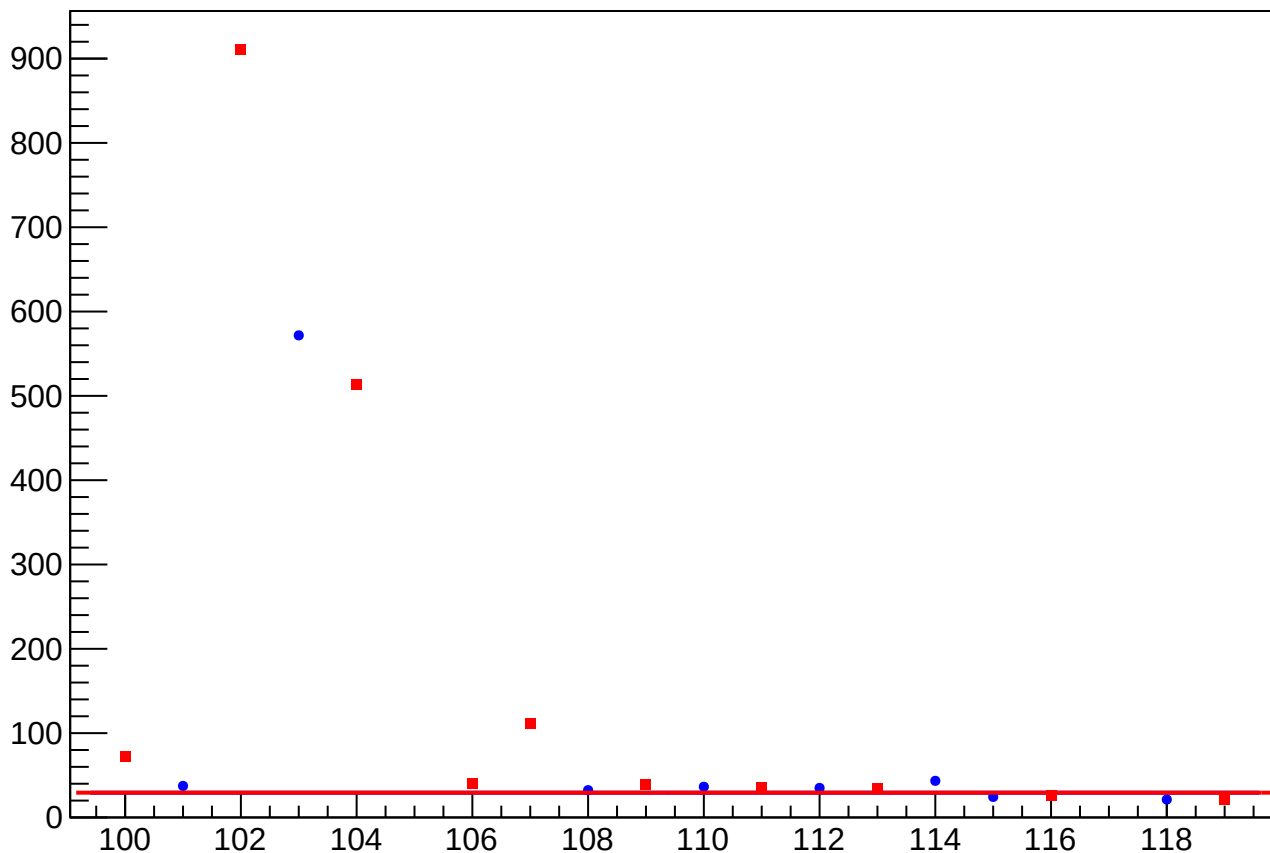
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.003 \pm 0.014$   $\chi^2/\text{NDF}$ : 15.6/17

- 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: 29.325+/-0.014  $\chi^2/\text{NDF}$ : 1352369.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.385+/-0.014  $\chi^2/\text{NDF}$ : 2357459.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

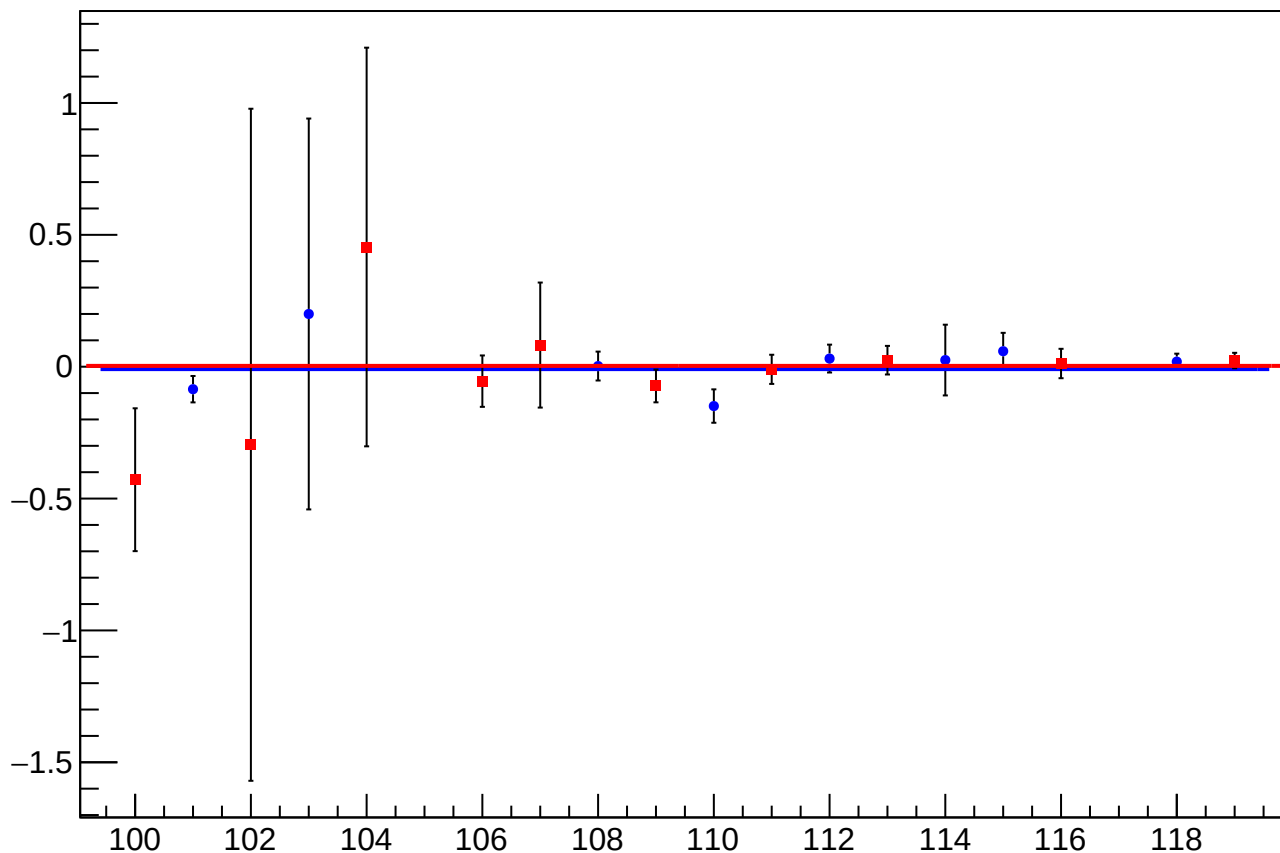
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.354+/-0.010  $\chi^2/\text{NDF}$ : 3709838.5/17

- 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:  $-0.009 \pm 0.019$   $\chi^2/\text{NDF}$ : 9.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.003 \pm 0.020$   $\chi^2/\text{NDF}$ : 5.6/9

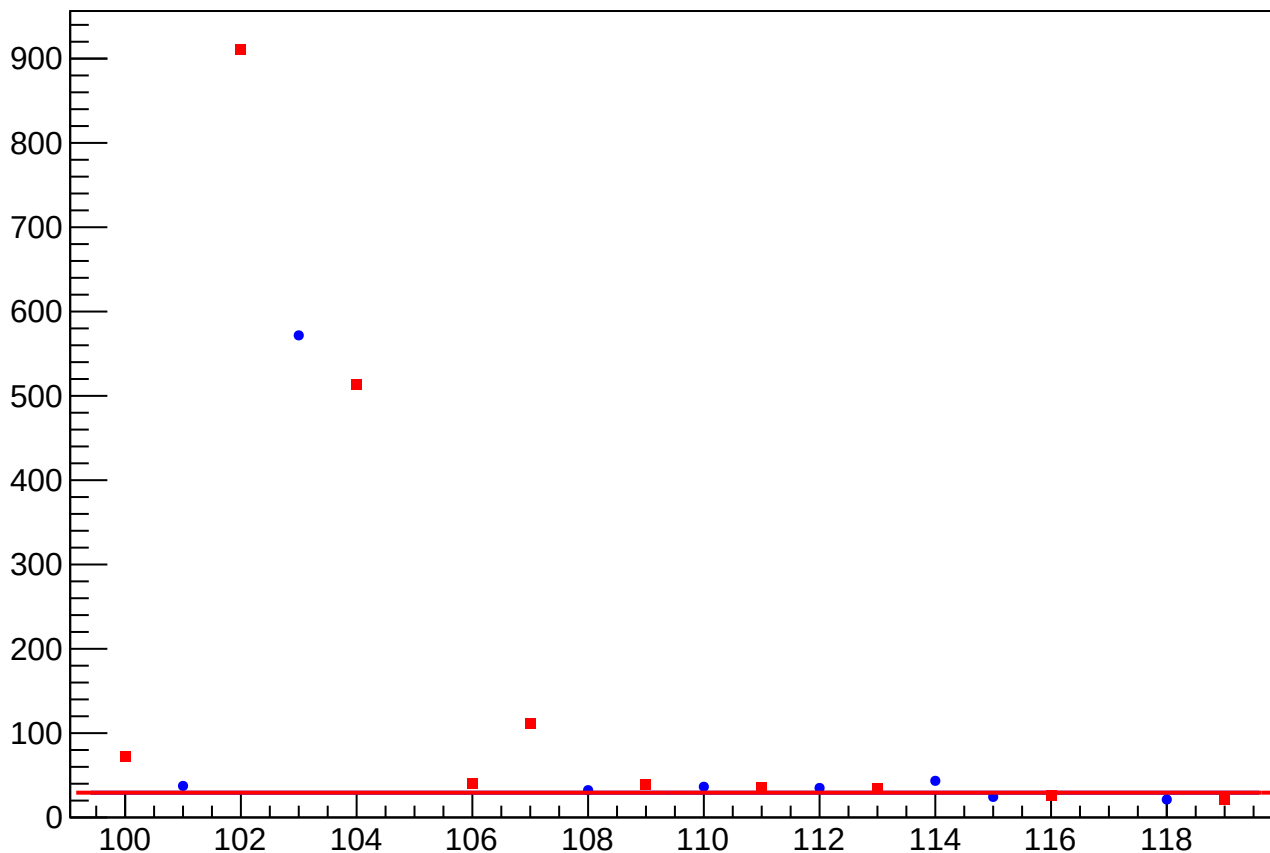
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.003 \pm 0.014$   $\chi^2/\text{NDF}$ : 15.6/17

- 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: 29.325+/-0.014  $\chi^2/\text{NDF}$ : 1352369.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.385+/-0.014  $\chi^2/\text{NDF}$ : 2357459.3/9

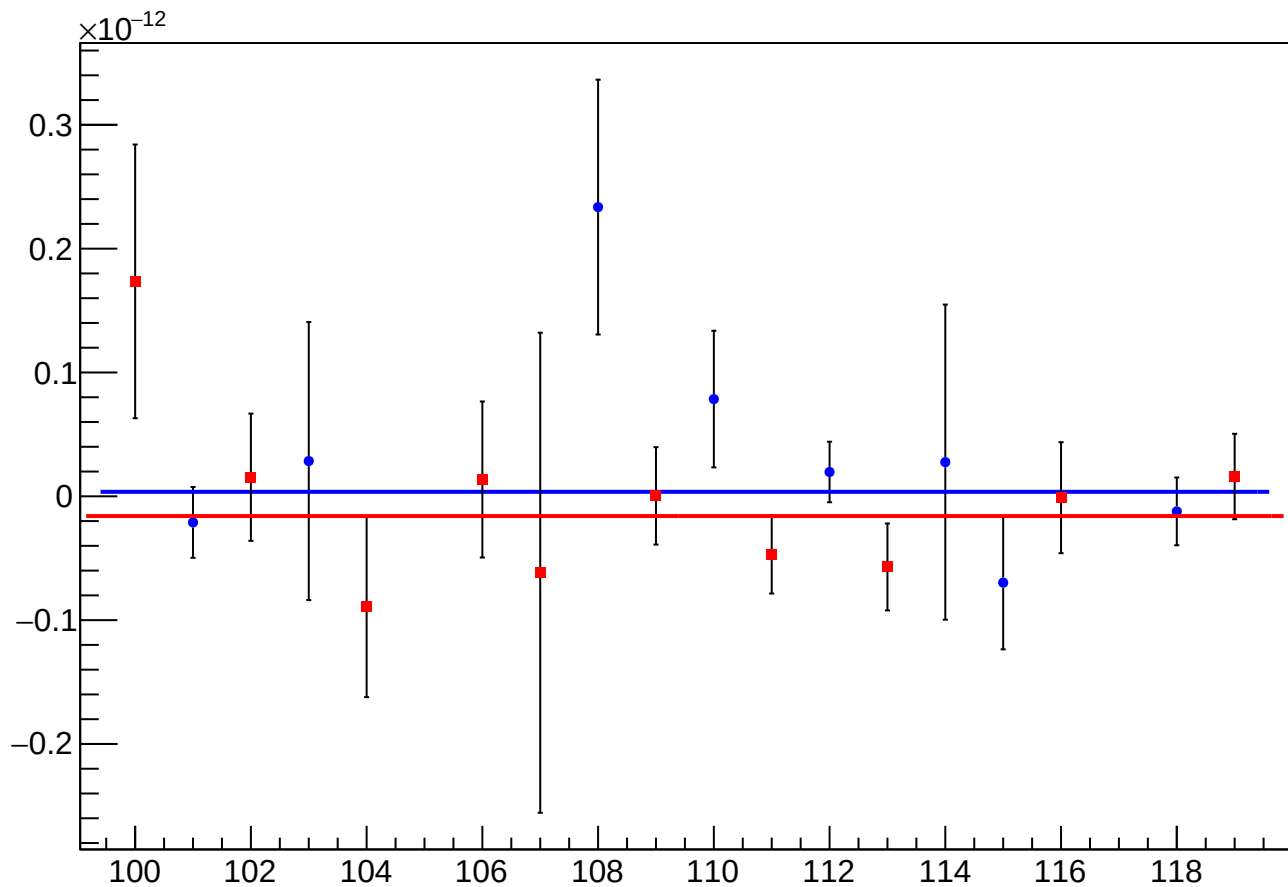
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.354+/-0.010  $\chi^2/\text{NDF}$ : 3709838.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.1/9

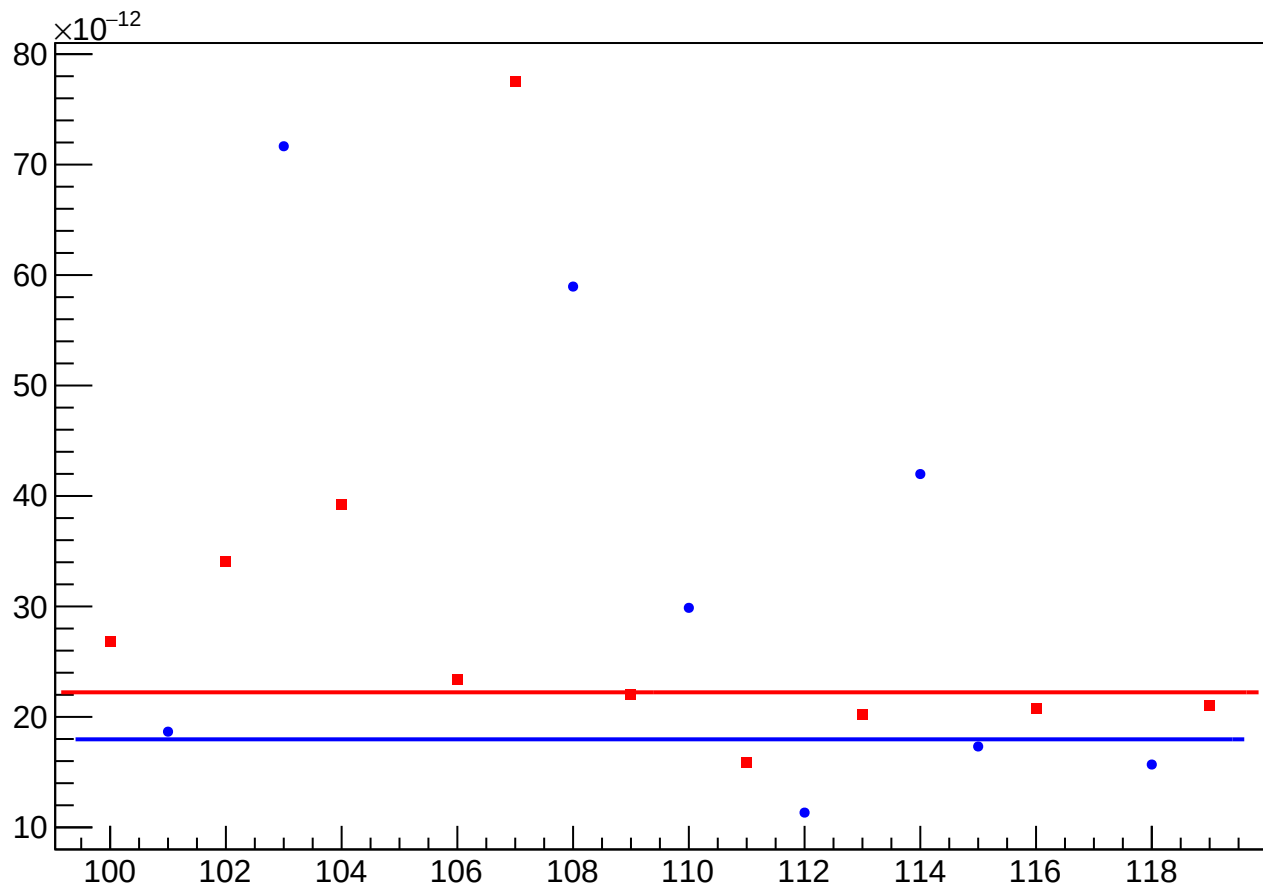
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1101407.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 474209.6/9

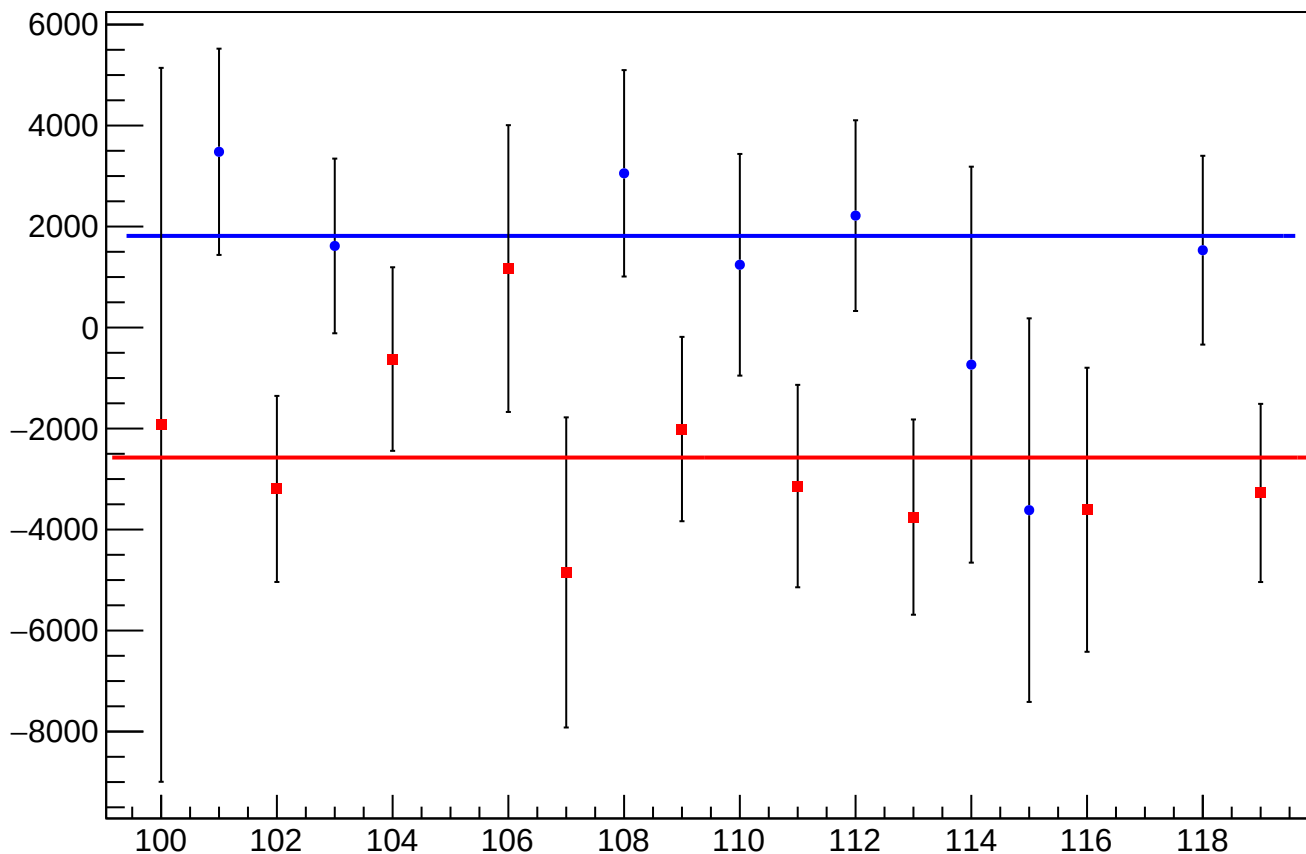
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1664815.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 1814.858+/-762.030  $\chi^2/\text{NDF}$ : 3.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2573.973+/-688.135  $\chi^2/\text{NDF}$ : 4.4/9

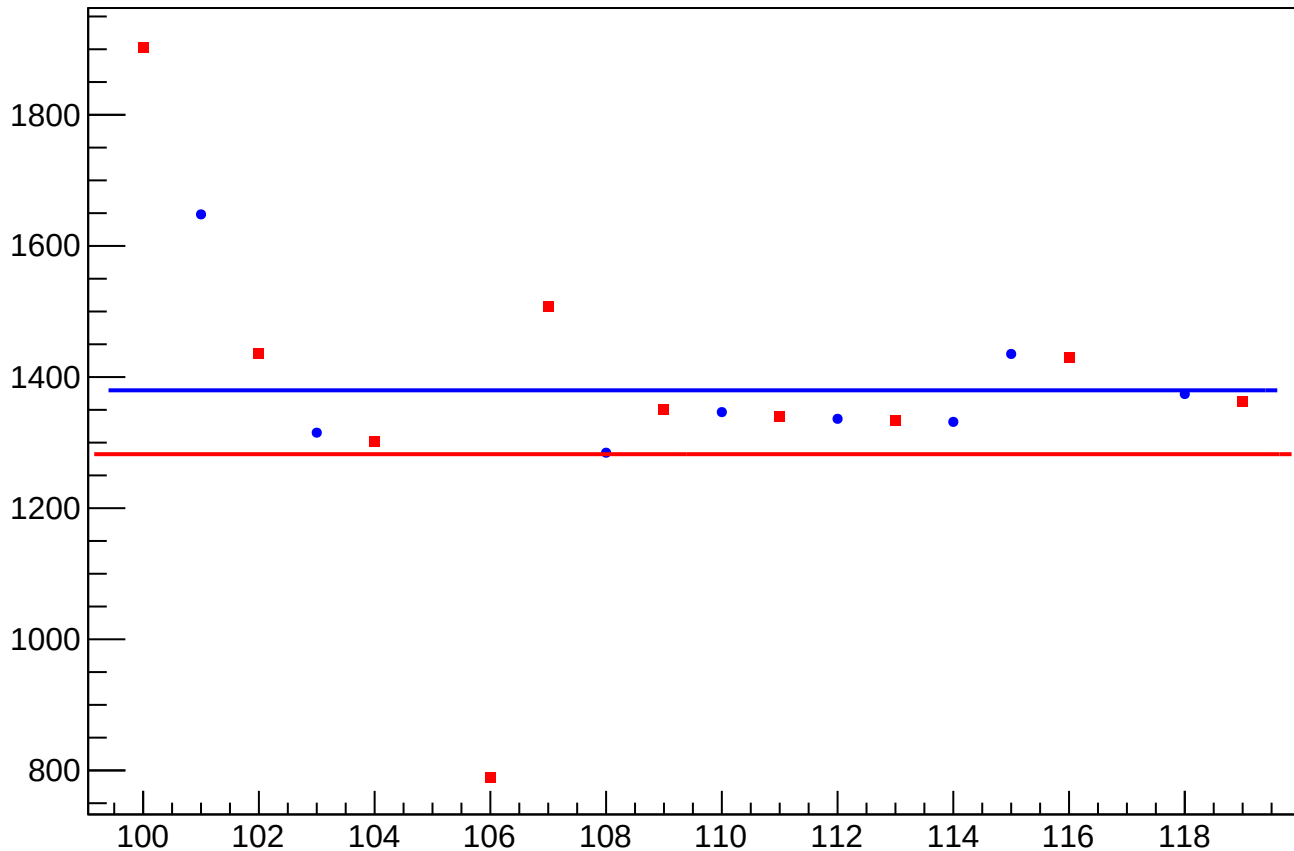
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -602.619+/-510.717  $\chi^2/\text{NDF}$ : 26.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1379.774 $\pm$ 0.539  $\chi^2$ /NDF: 43925.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1282.363 $\pm$ 0.461  $\chi^2$ /NDF: 233956.0/9

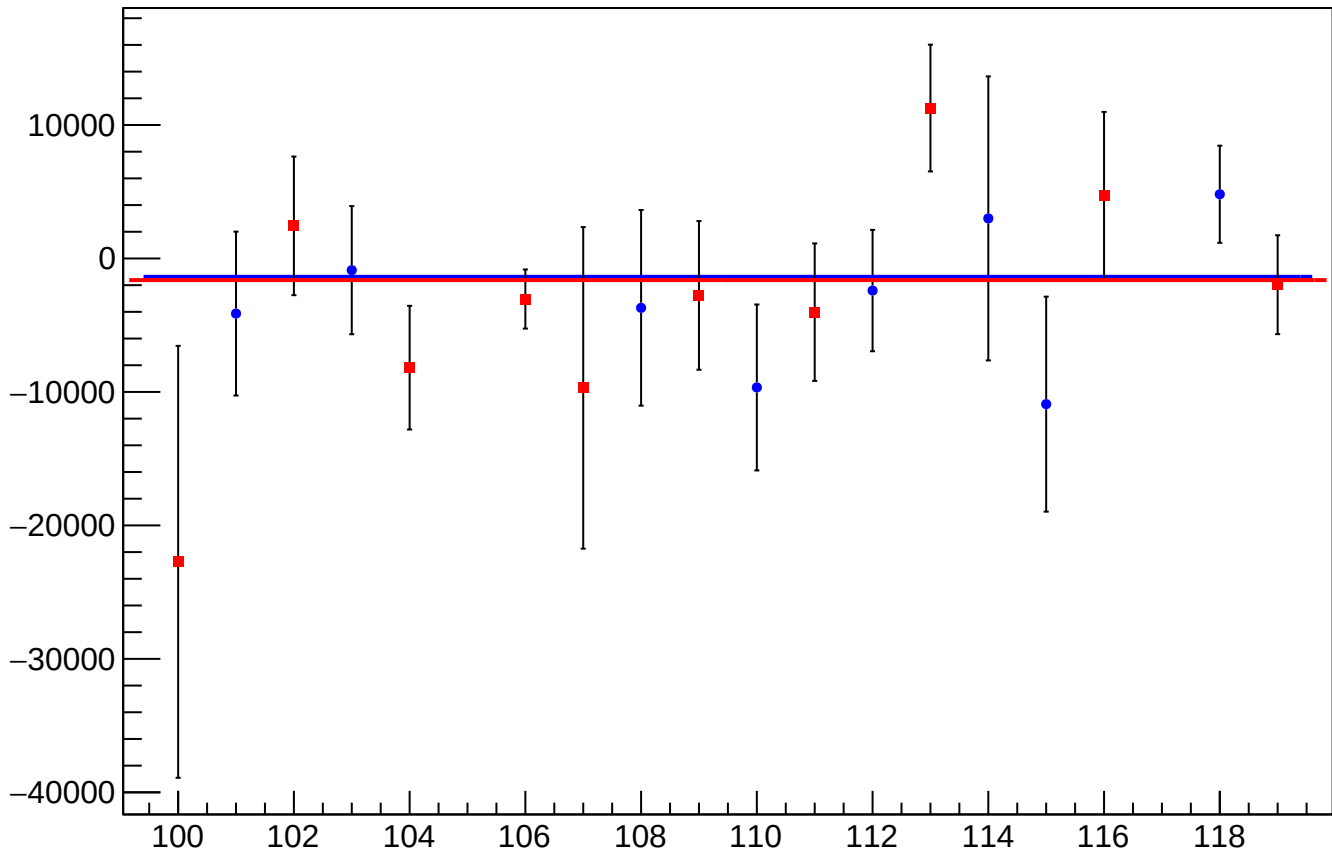
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1323.508 $\pm$ 0.350  $\chi^2$ /NDF: 296758.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_avg\_reg\_correction\_mean vs Slug



Right In: -1375.935+/-1951.653  $\chi^2/\text{NDF}$ : 6.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1621.509+/-1398.903  $\chi^2/\text{NDF}$ : 13.8/9

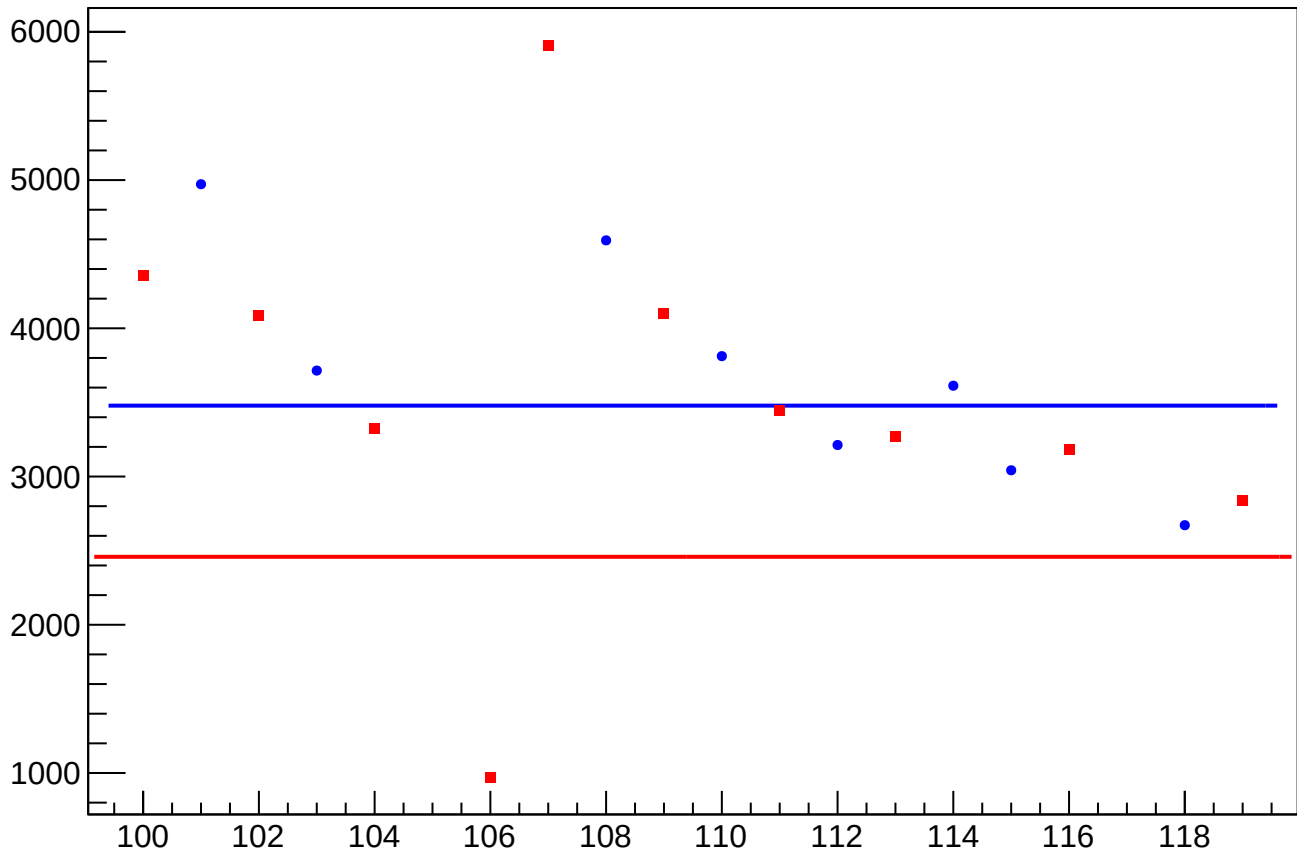
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1538.161+/-1136.992  $\chi^2/\text{NDF}$ : 20.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_avg\_reg\_correction\_rms vs Slug



Right In: 3478.302+/-1.380  $\chi^2/\text{NDF}$ : 286576.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2458.429+/-0.989  $\chi^2/\text{NDF}$ : 1714782.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

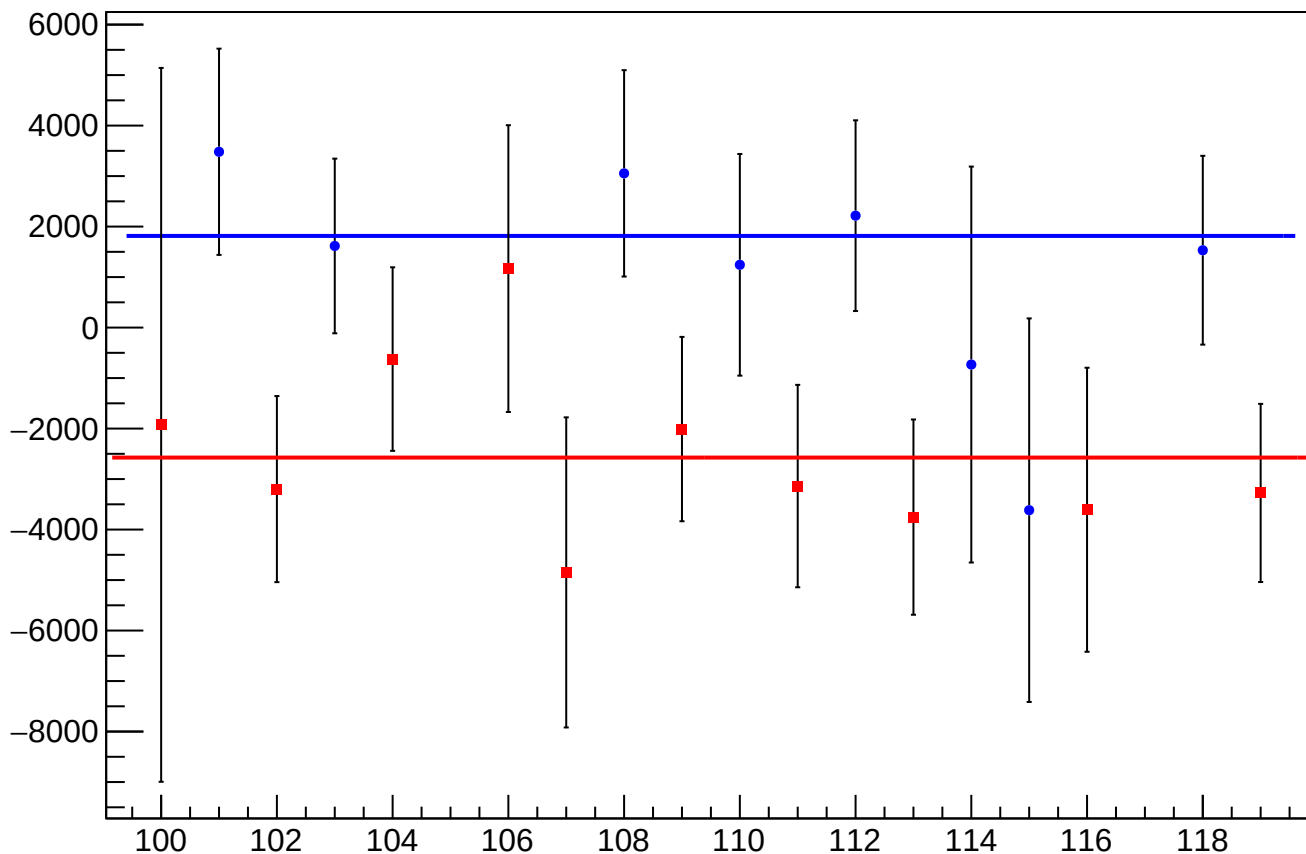
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2804.572+/-0.804  $\chi^2/\text{NDF}$ : 2362150.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 1815.039 $\pm$ 762.030  $\chi^2$ /NDF: 3.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2574.346 $\pm$ 688.142  $\chi^2$ /NDF: 4.4/9

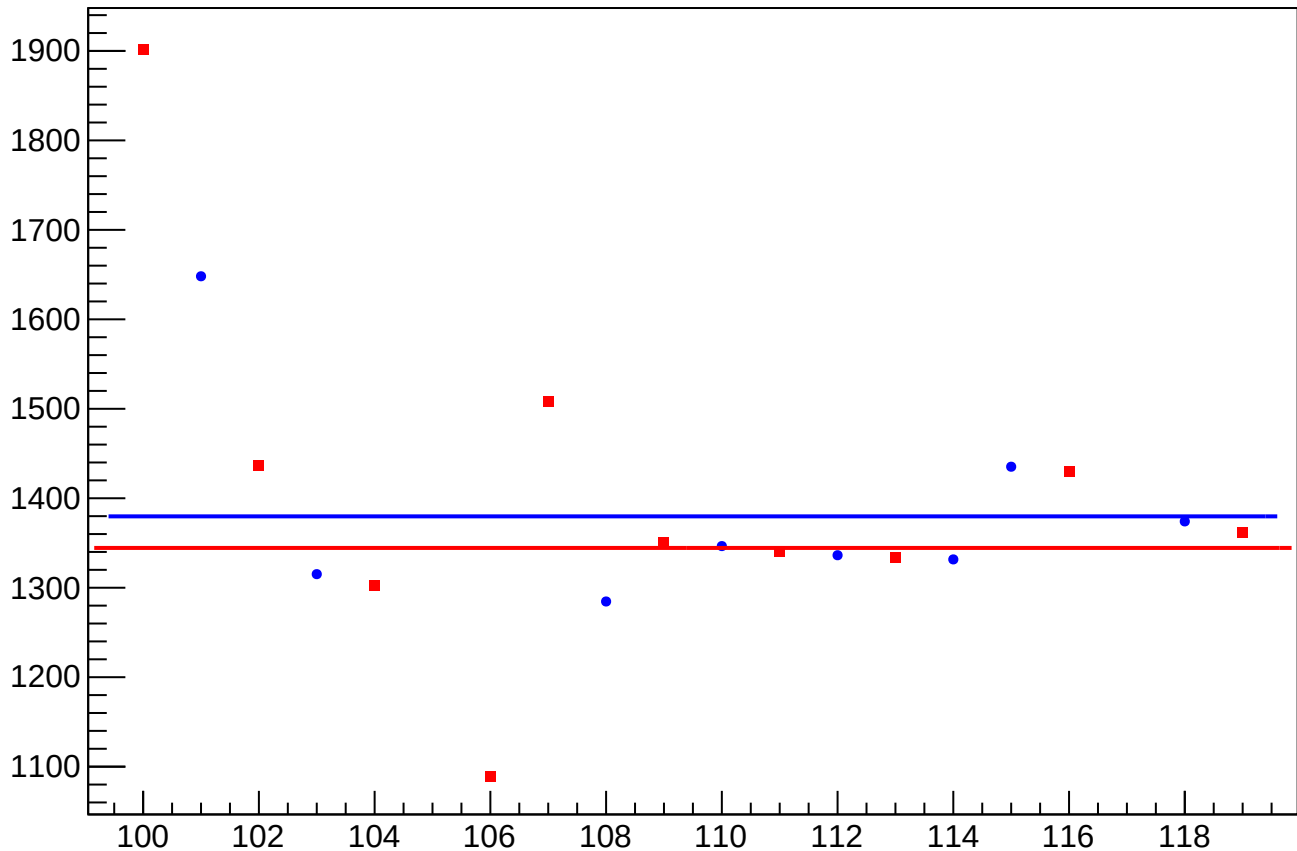
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -602.719 $\pm$ 510.720  $\chi^2$ /NDF: 26.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1379.774 $\pm$ 0.539  $\chi^2$ /NDF: 43925.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1344.485 $\pm$ 0.475  $\chi^2$ /NDF: 55618.7/9

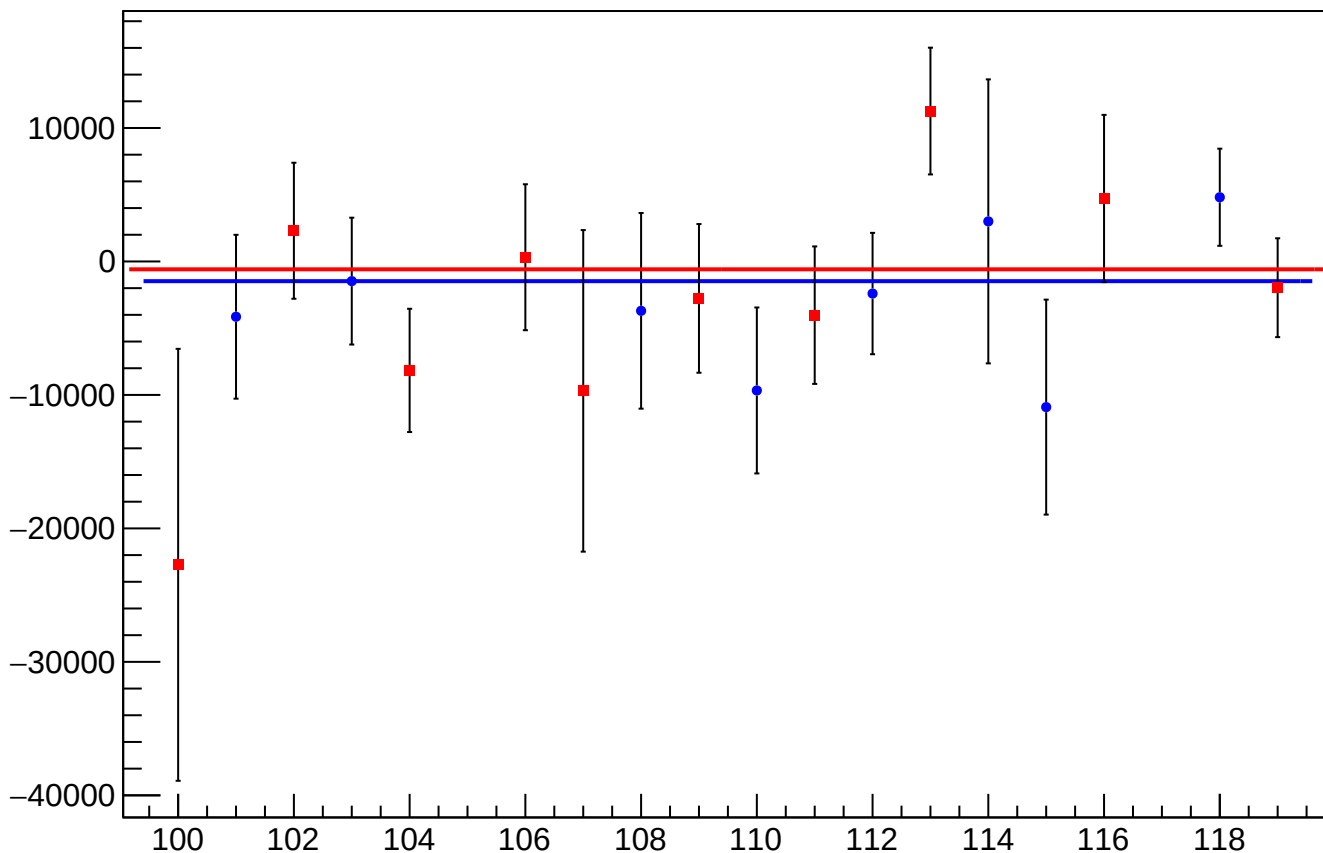
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1359.931 $\pm$ 0.356  $\chi^2$ /NDF: 101955.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_avg\_cor\_correction\_mean vs Slug



Right In: -1475.571+/-1948.285  $\chi^2/\text{NDF}$ : 6.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -589.009+/-1709.409  $\chi^2/\text{NDF}$ : 13.2/9

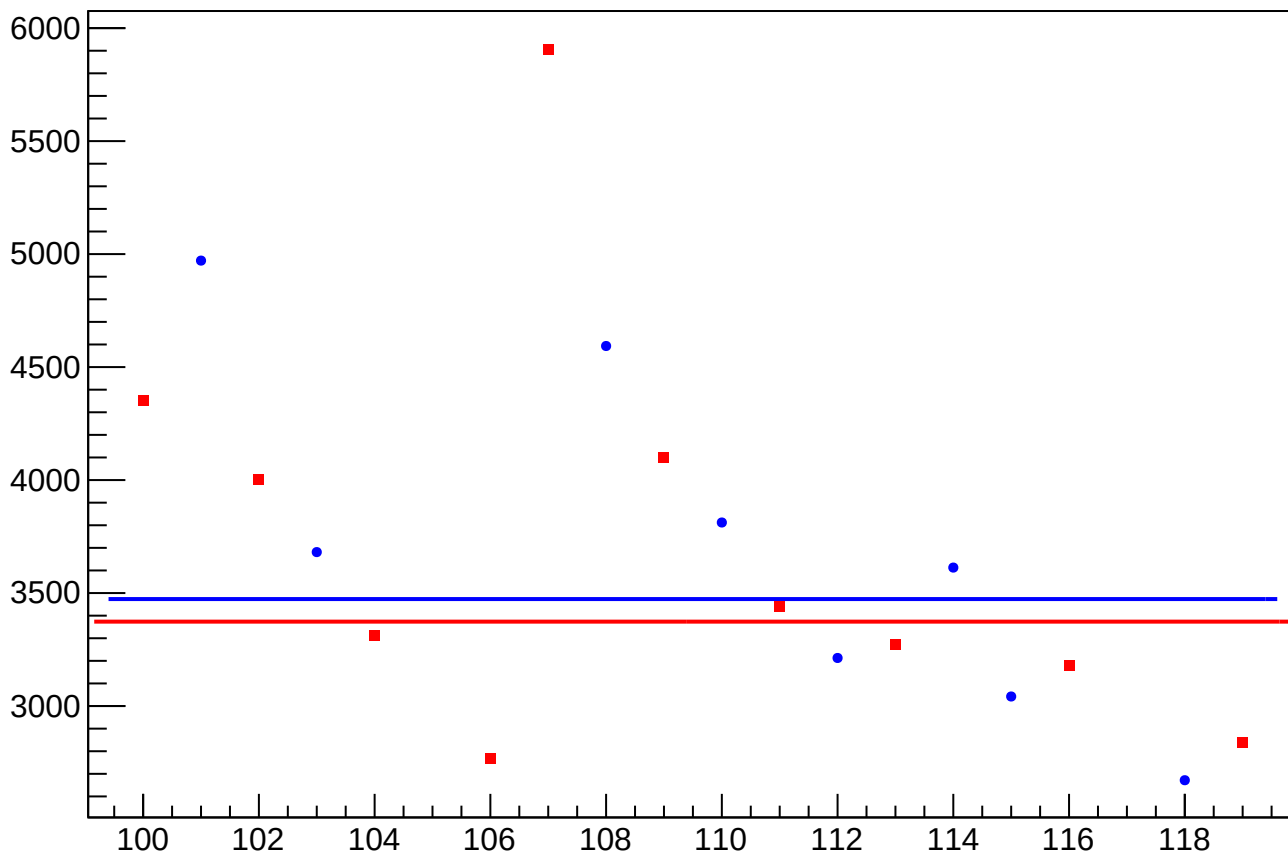
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -974.637+/-1284.937  $\chi^2/\text{NDF}$ : 19.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_avg\_cor\_correction\_rms vs Slug



Right In: 3473.413+/-1.378  $\chi^2/\text{NDF}$ : 285248.9/7

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

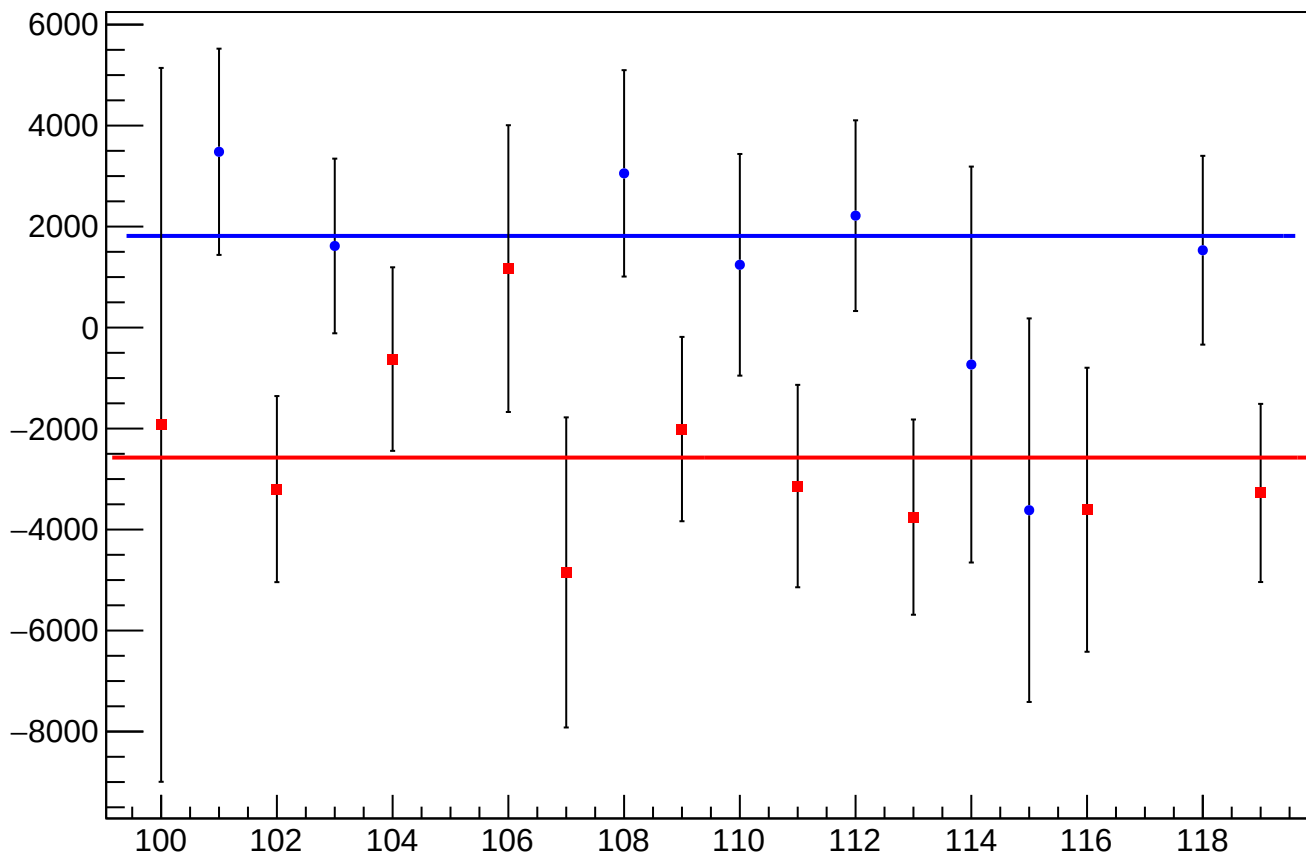
Right Out: 3373.531+/-1.209  $\chi^2/\text{NDF}$ : 229648.3/9

All: 3416.976+/-0.909  $\chi^2/\text{NDF}$ : 517867.3/17

- 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\_usl\_atl2\_avg\_mean vs Slug



Right In: 1815.039 $\pm$ 762.030  $\chi^2$ /NDF: 3.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2574.346 $\pm$ 688.142  $\chi^2$ /NDF: 4.4/9

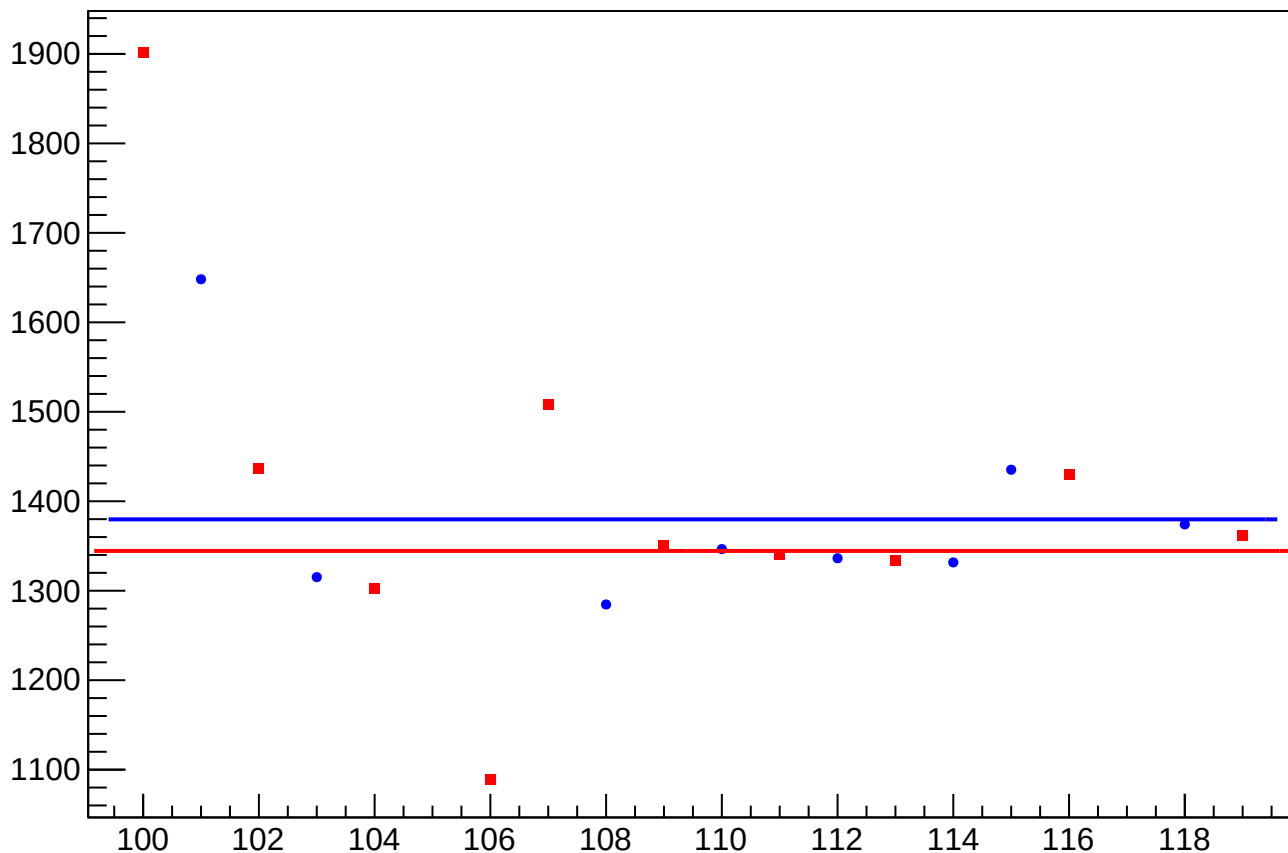
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -602.719 $\pm$ 510.720  $\chi^2$ /NDF: 26.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1379.774 $\pm$ 0.539  $\chi^2$ /NDF: 43925.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1344.485 $\pm$ 0.475  $\chi^2$ /NDF: 55618.7/9

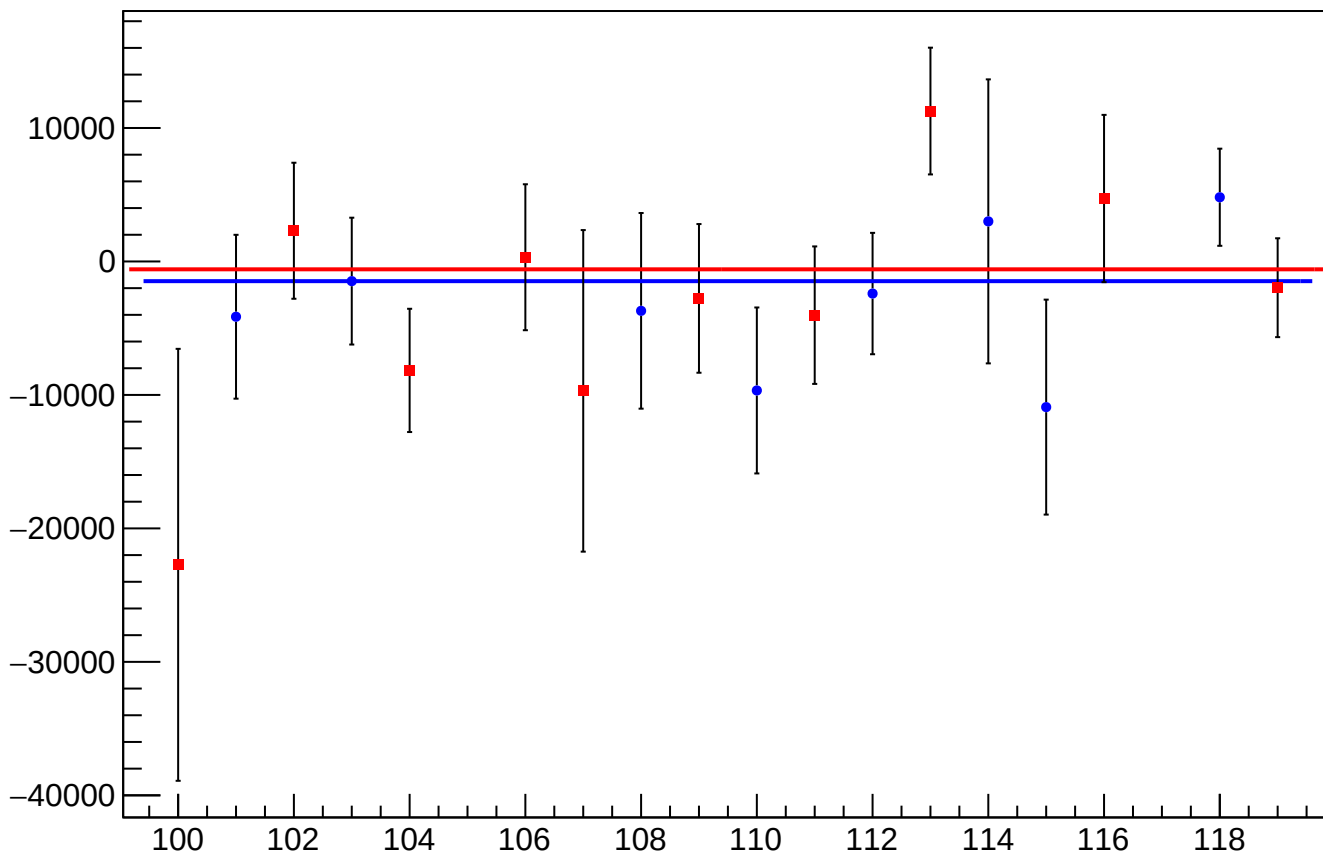
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1359.931 $\pm$ 0.356  $\chi^2$ /NDF: 101955.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -1475.571+/-1948.285  $\chi^2/\text{NDF}$ : 6.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -589.009+/-1709.409  $\chi^2/\text{NDF}$ : 13.2/9

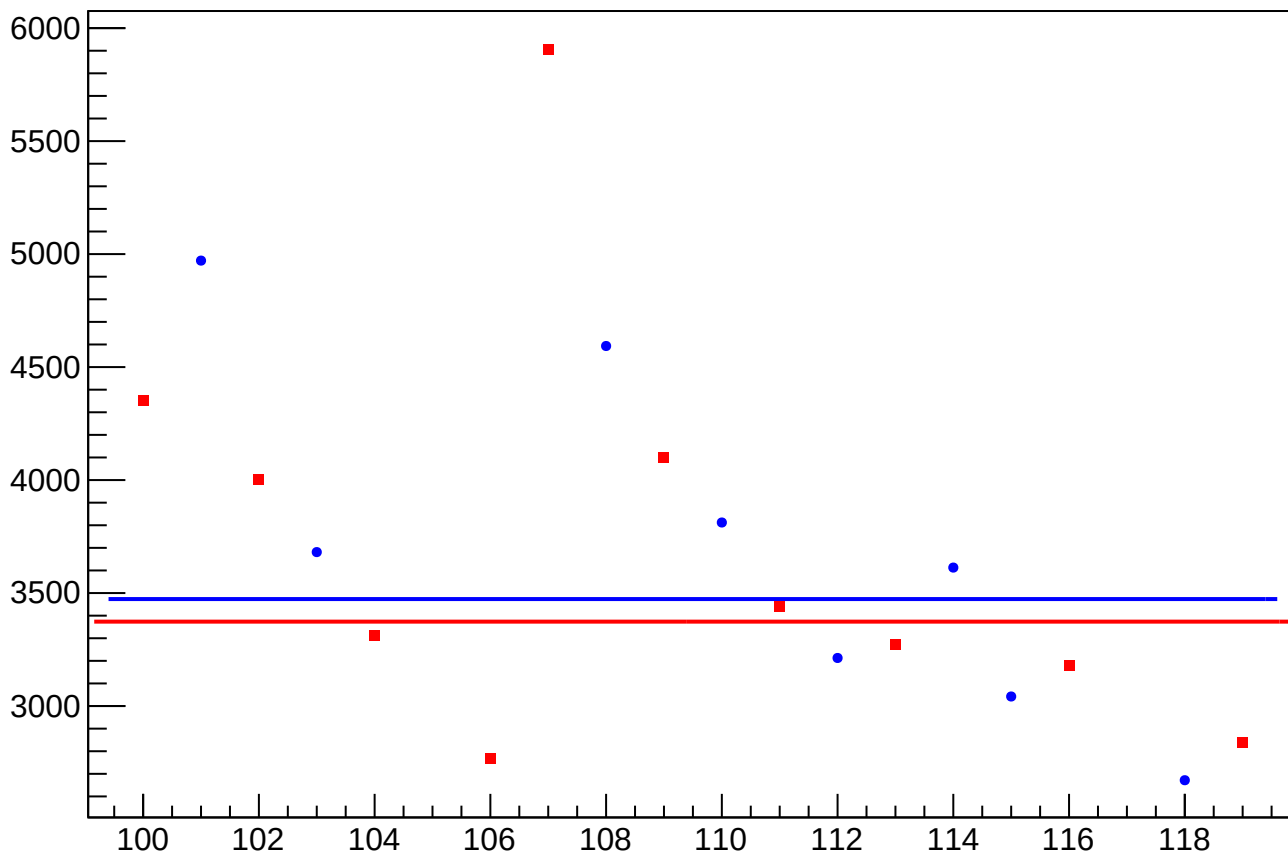
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -974.637+/-1284.937  $\chi^2/\text{NDF}$ : 19.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 3473.413+/-1.378  $\chi^2/\text{NDF}$ : 285248.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3373.531+/-1.209  $\chi^2/\text{NDF}$ : 229648.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

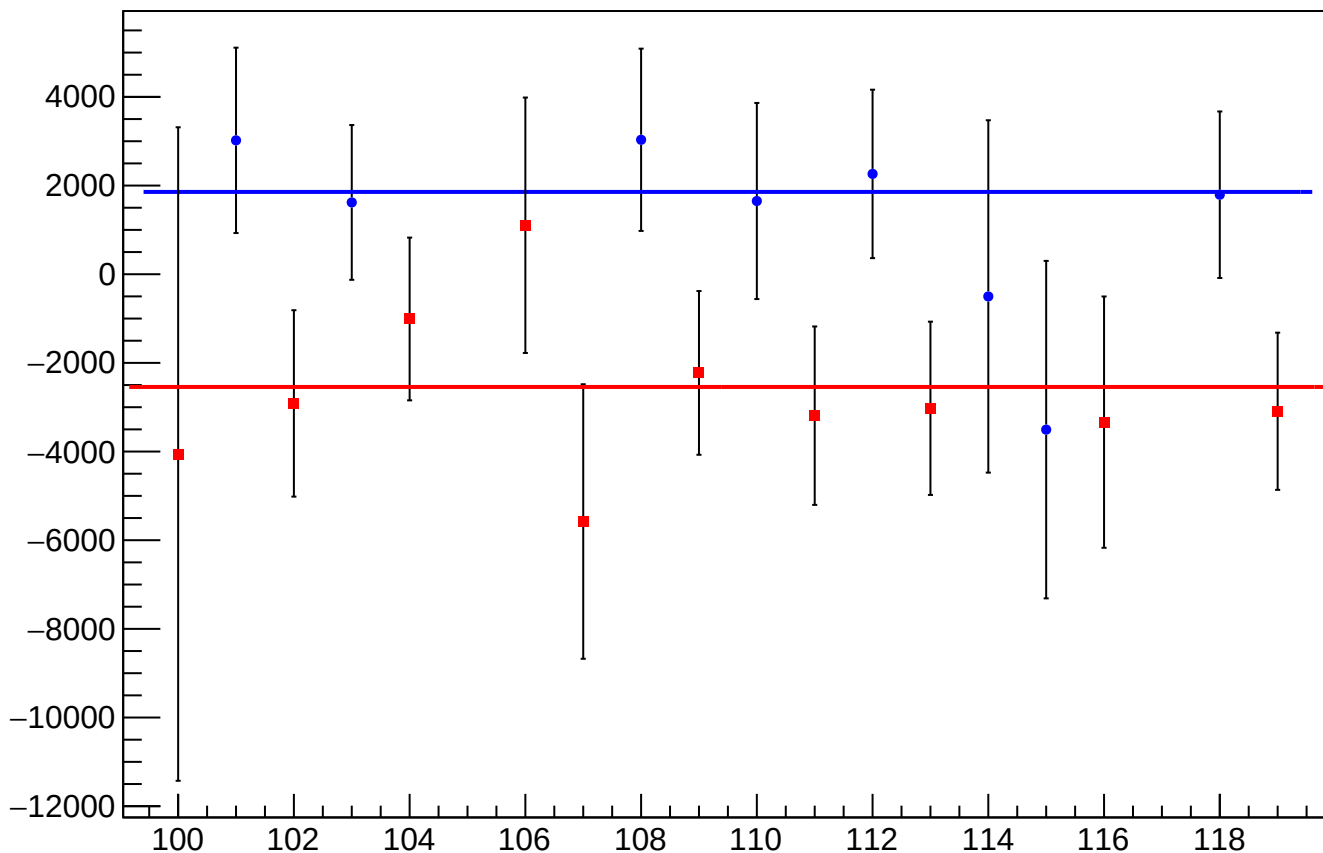
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3416.976+/-0.909  $\chi^2/\text{NDF}$ : 517867.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 1856.740 $\pm$ 769.040  $\chi^2$ /NDF: 3.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2543.047 $\pm$ 705.203  $\chi^2$ /NDF: 3.7/9

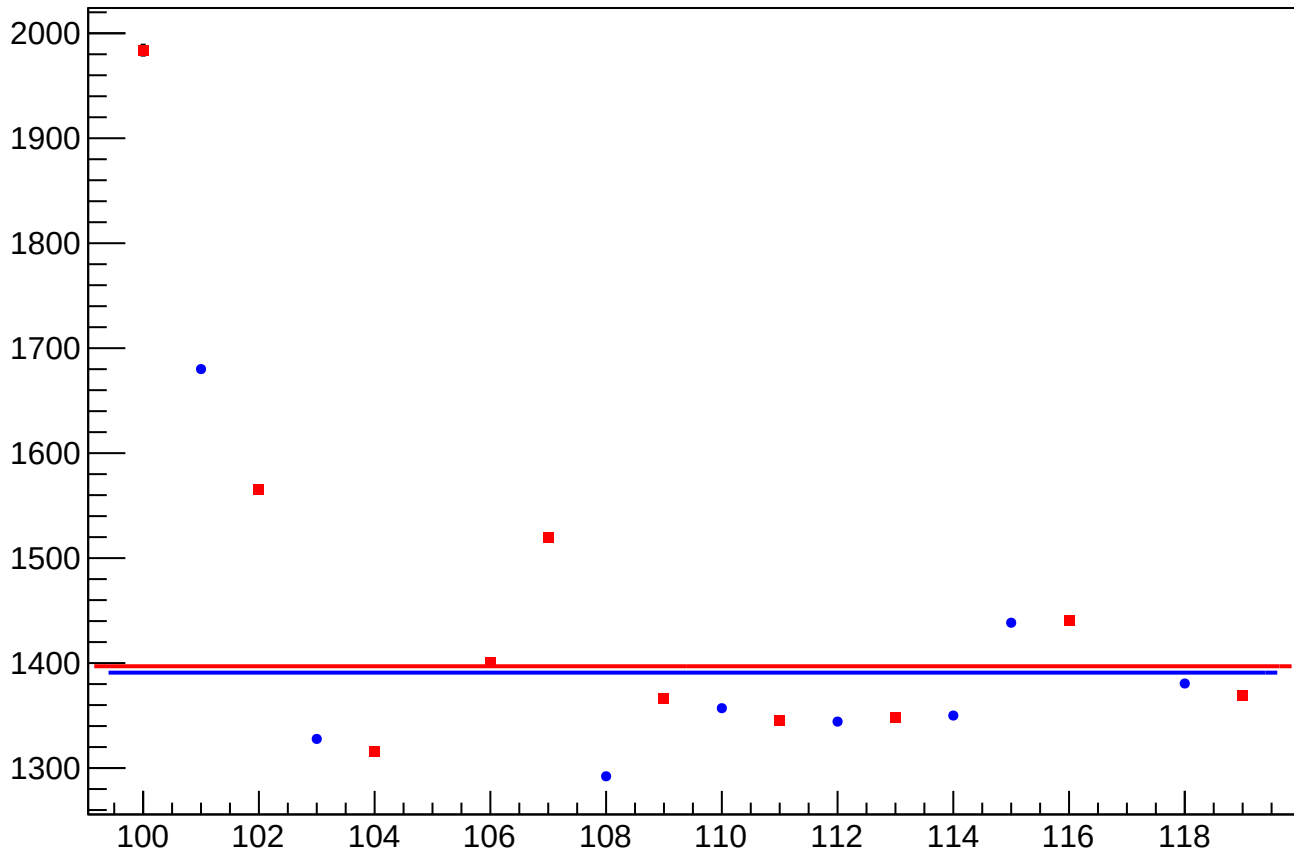
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -533.315 $\pm$ 519.759  $\chi^2$ /NDF: 24.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1390.900+/-0.544  $\chi^2/\text{NDF}$ : 47763.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1396.975+/-0.496  $\chi^2/\text{NDF}$ : 36683.6/9

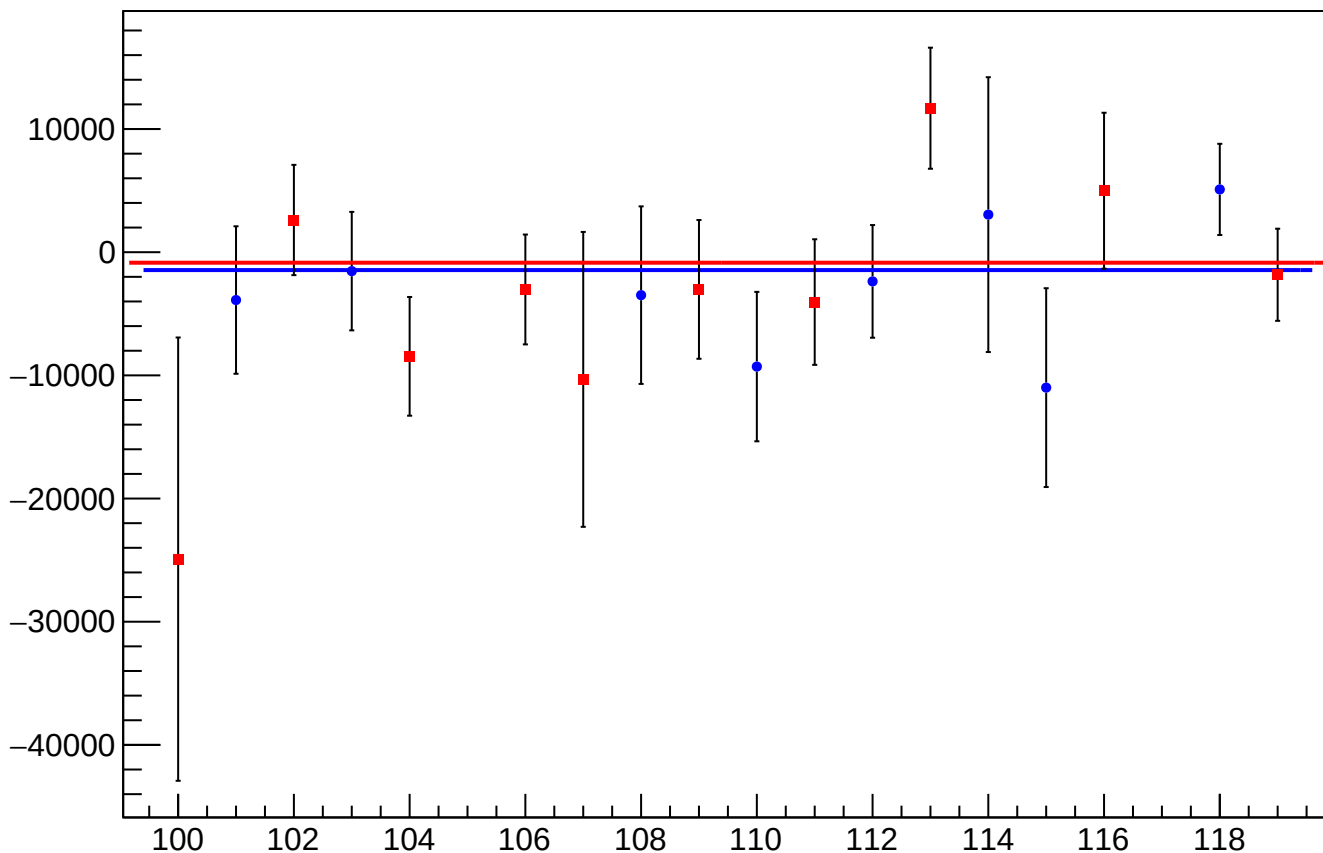
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1394.214+/-0.367  $\chi^2/\text{NDF}$ : 84514.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_avg\_dit\_correction\_mean vs Slug



Right In: -1452.291+/-1954.847  $\chi^2/\text{NDF}$ : 6.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -853.585+/-1663.888  $\chi^2/\text{NDF}$ : 13.7/9

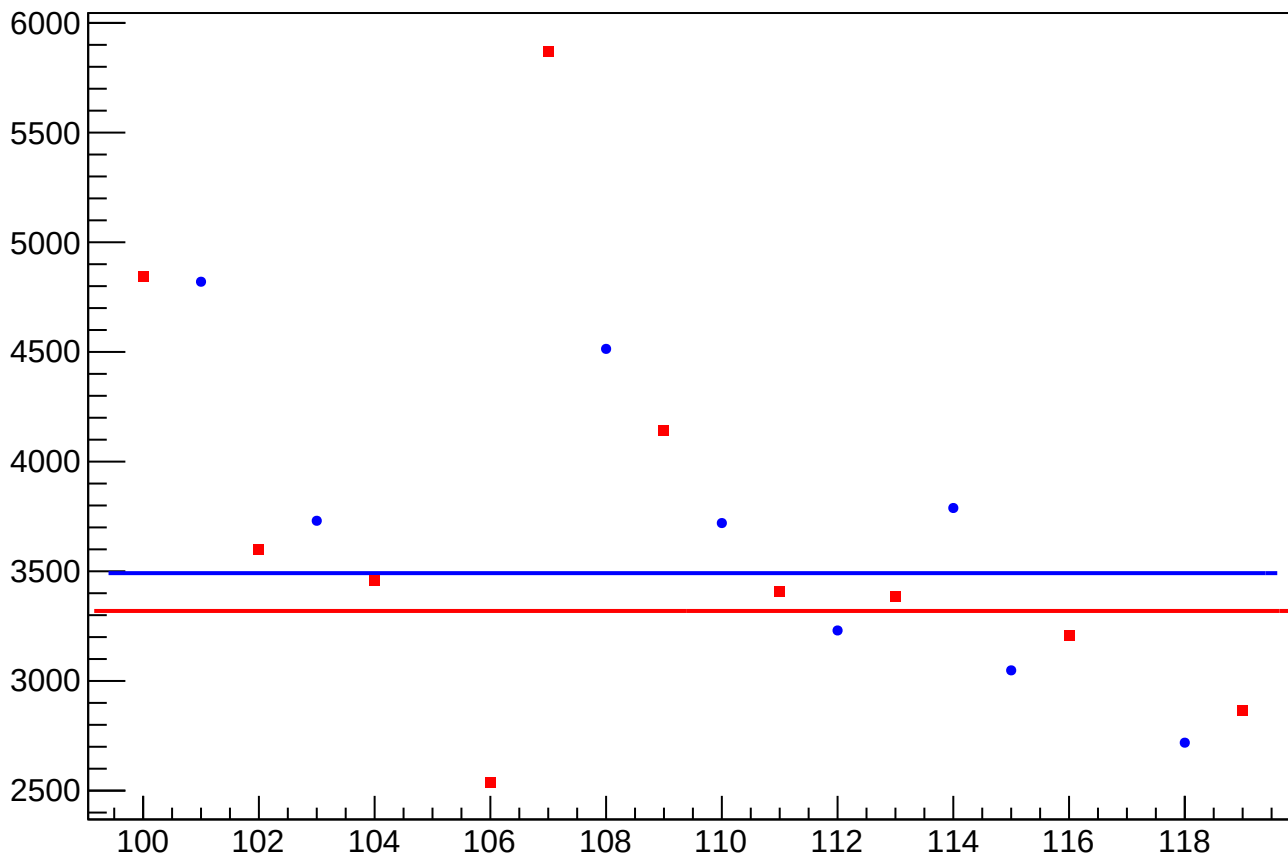
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1105.109+/-1267.056  $\chi^2/\text{NDF}$ : 20.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_avg\_dit\_correction\_rms vs Slug



Right In: 3491.522 $\pm$ 1.382  $\chi^2$ /NDF: 247633.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3319.128 $\pm$ 1.177  $\chi^2$ /NDF: 249634.4/9

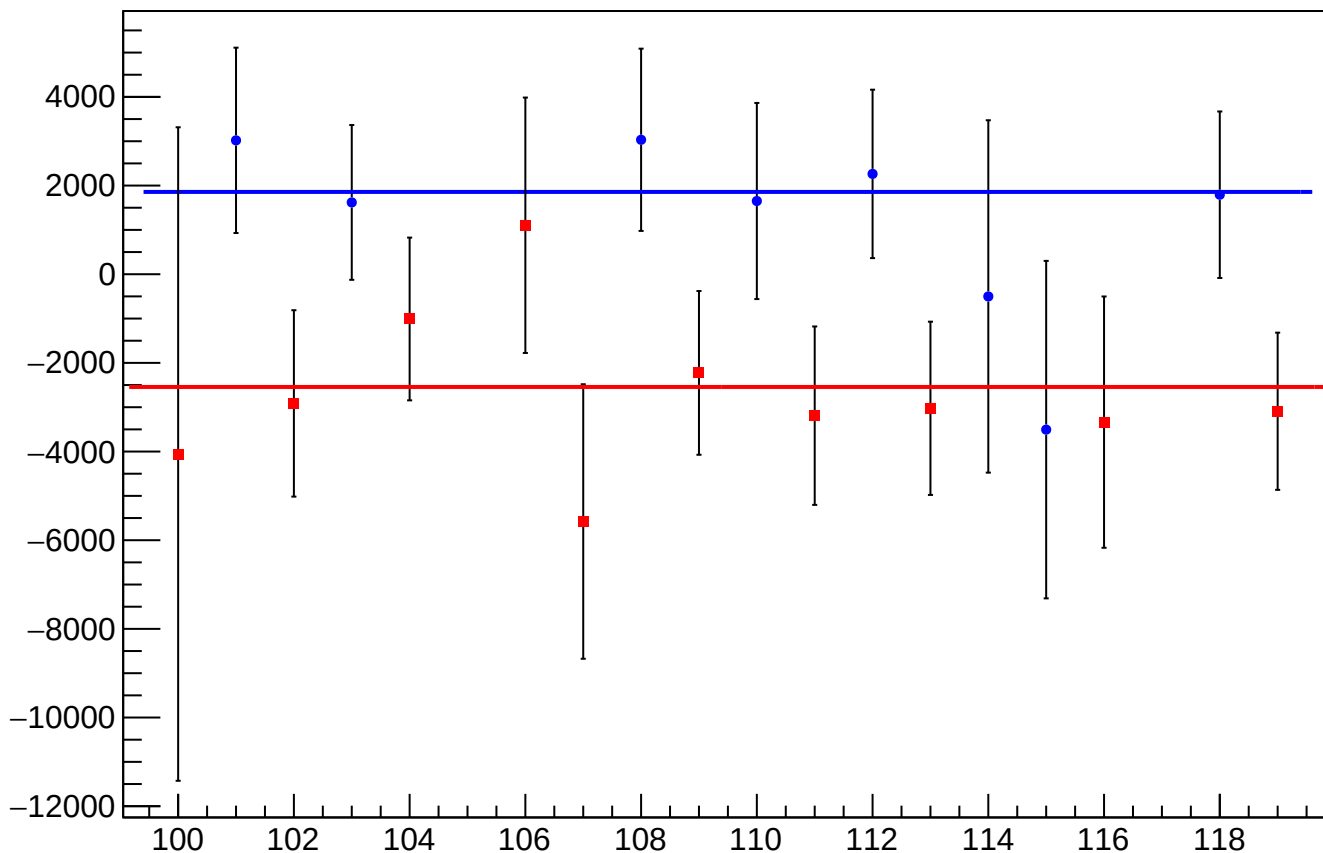
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3391.553 $\pm$ 0.896  $\chi^2$ /NDF: 506287.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 1856.747 $\pm$ 769.040  $\chi^2$ /NDF: 3.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2543.054 $\pm$ 705.203  $\chi^2$ /NDF: 3.7/9

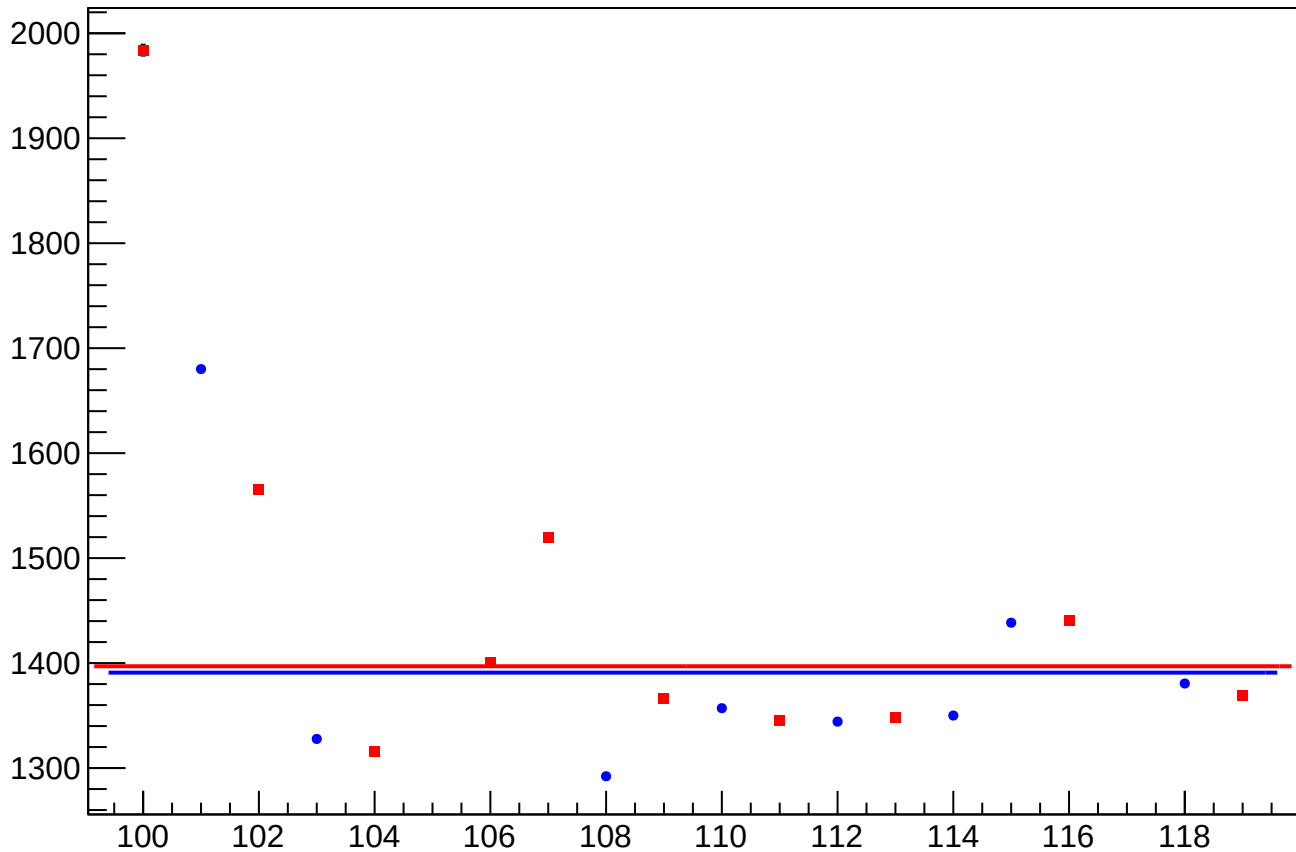
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -533.316 $\pm$ 519.759  $\chi^2$ /NDF: 24.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1390.900+/-0.544  $\chi^2/\text{NDF}$ : 47762.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1396.974+/-0.496  $\chi^2/\text{NDF}$ : 36683.6/9

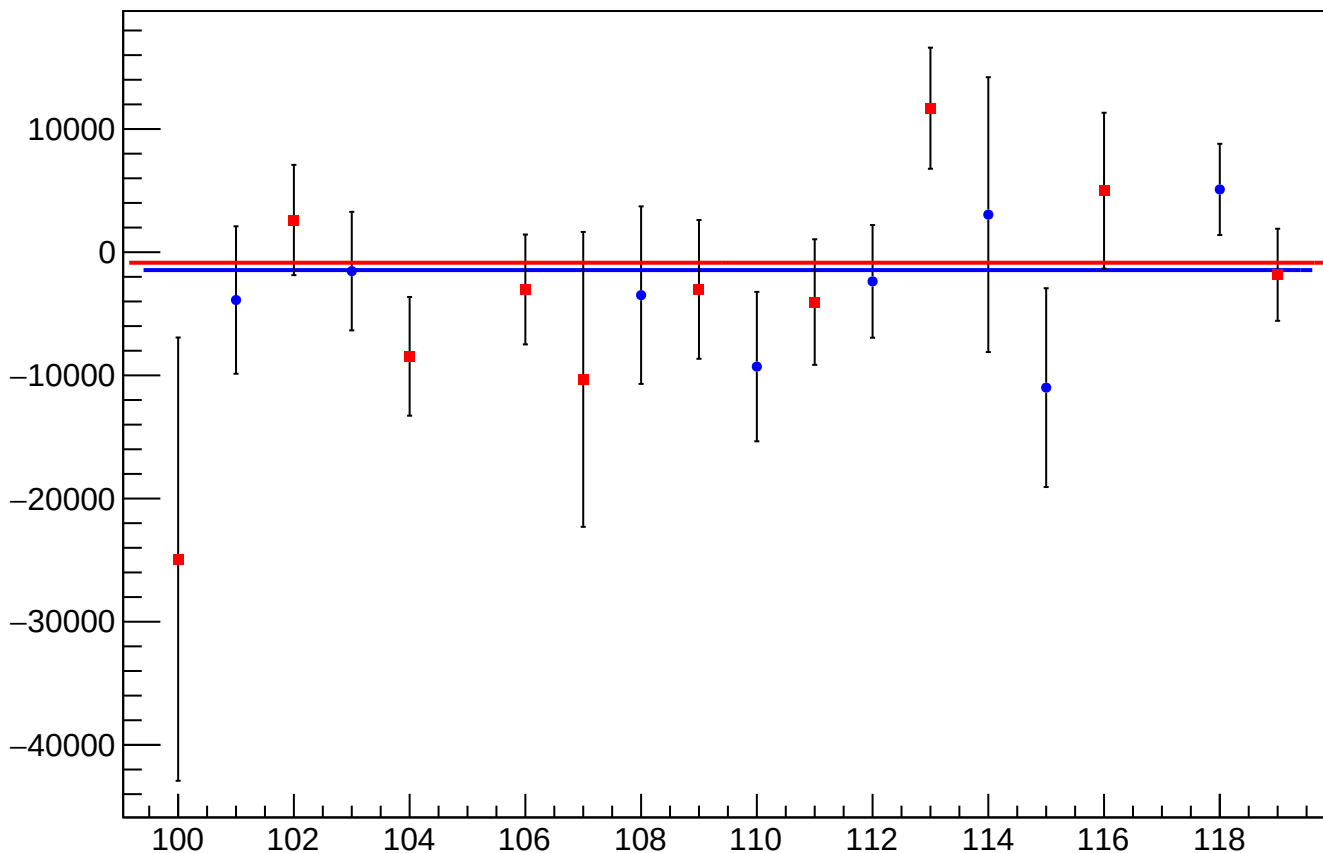
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1394.214+/-0.367  $\chi^2/\text{NDF}$ : 84514.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -1452.279+/-1954.841  $\chi^2/\text{NDF}$ : 6.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -853.586+/-1663.883  $\chi^2/\text{NDF}$ : 13.7/9

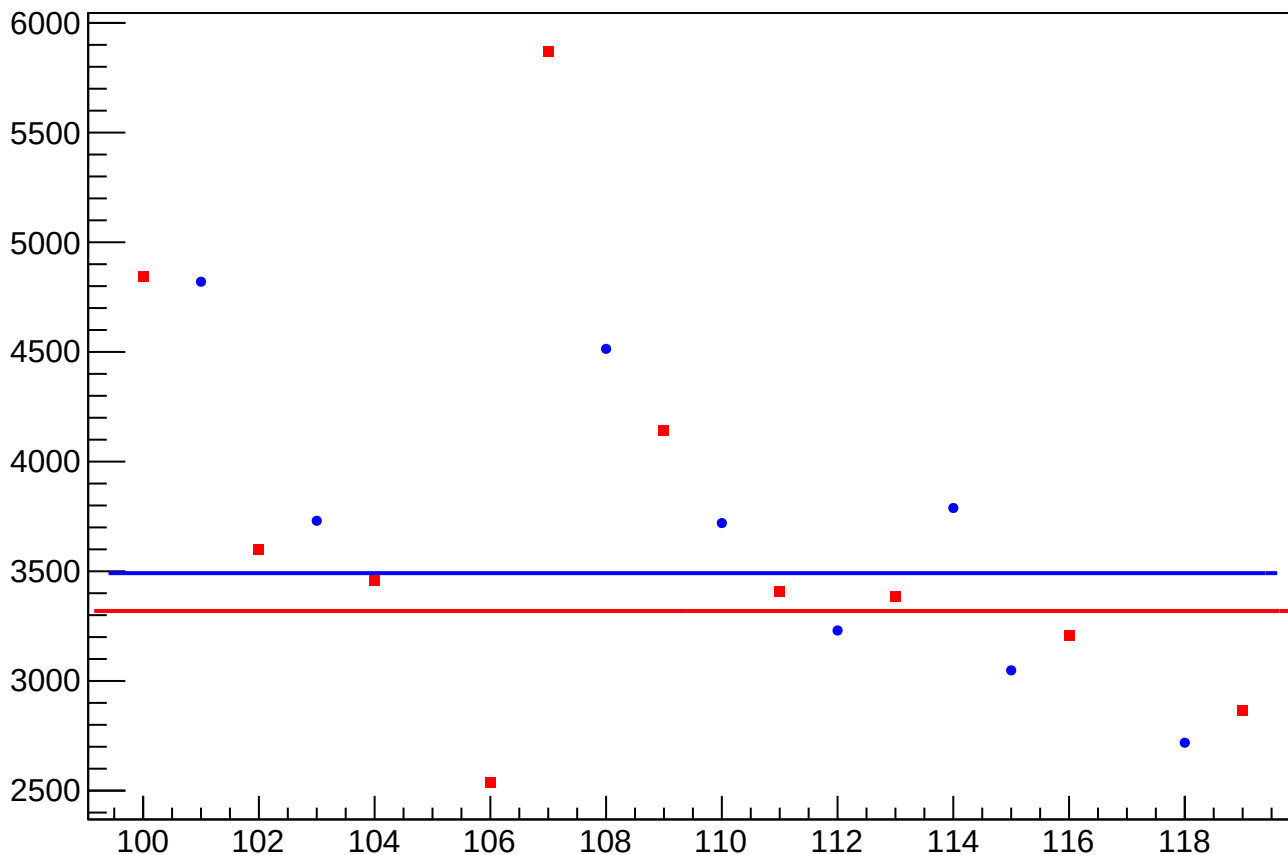
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1105.105+/-1267.052  $\chi^2/\text{NDF}$ : 20.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 3491.510+/-1.382  $\chi^2/\text{NDF}$ : 247637.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3319.117+/-1.177  $\chi^2/\text{NDF}$ : 249636.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

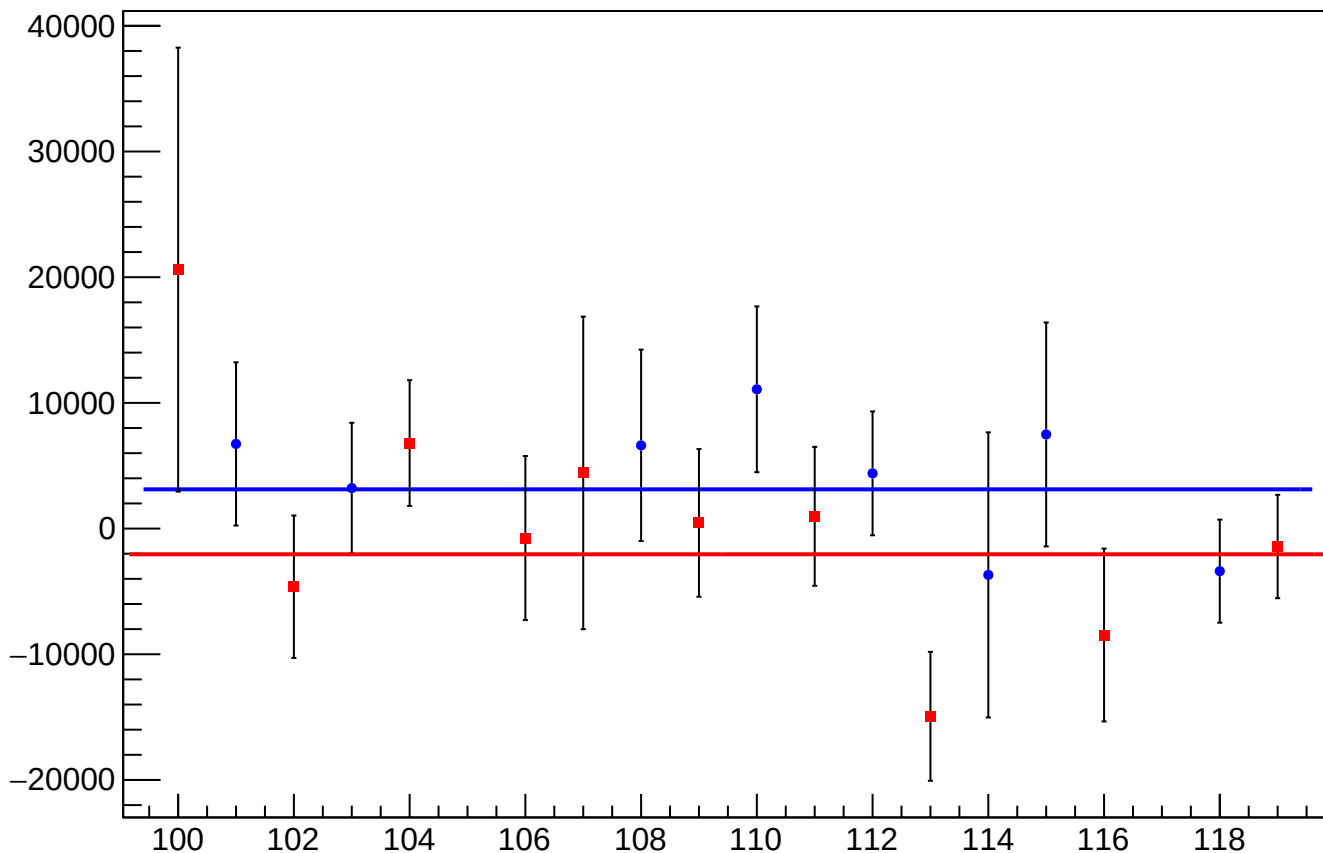
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3391.542+/-0.896  $\chi^2/\text{NDF}$ : 506293.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 3122.403 $\pm$ 2122.248  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2045.096 $\pm$ 1875.824  $\chi^2$ /NDF: 13.0/9

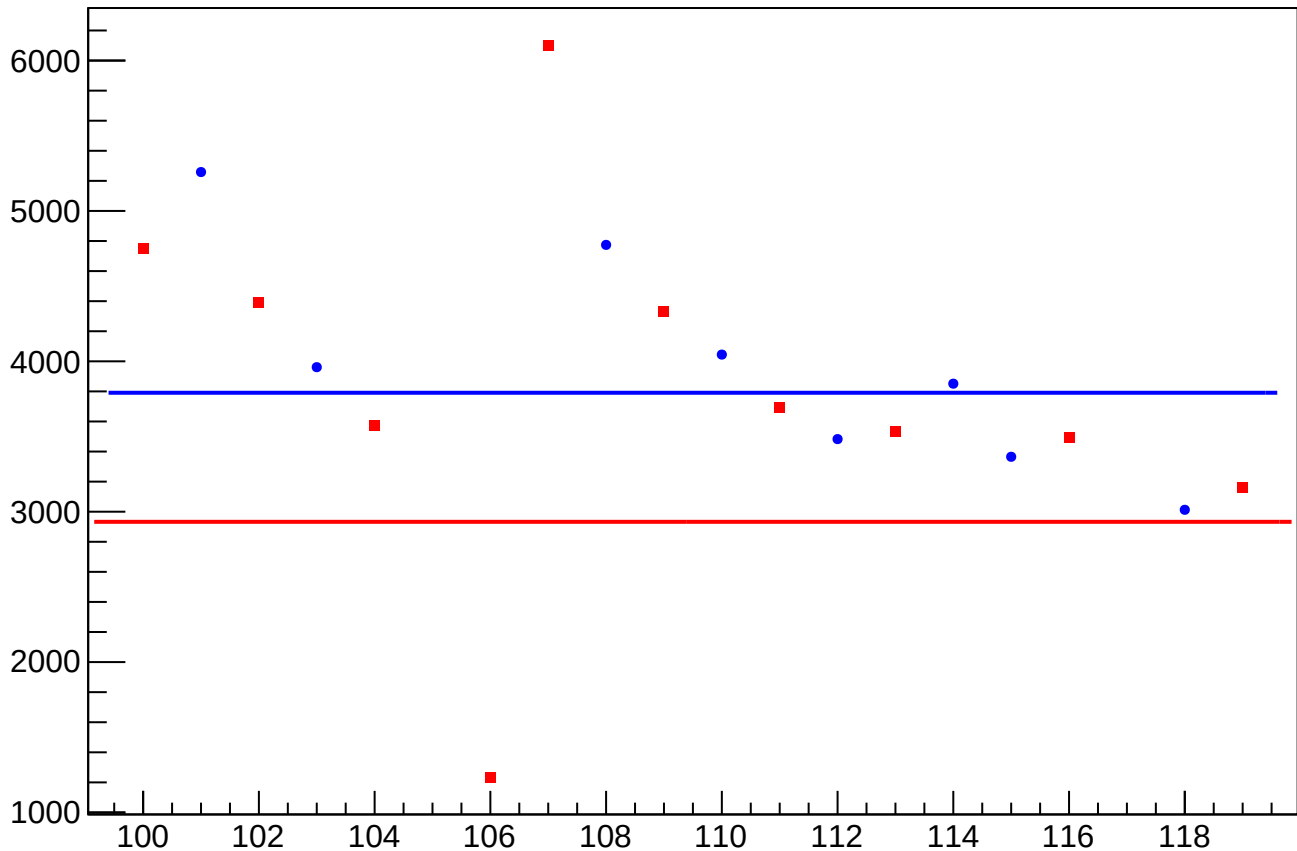
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 221.357 $\pm$ 1405.495  $\chi^2$ /NDF: 21.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 3790.996 $\pm$ 1.501  $\chi^2$ /NDF: 225074.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2932.751 $\pm$ 1.140  $\chi^2$ /NDF: 1229753.1/9

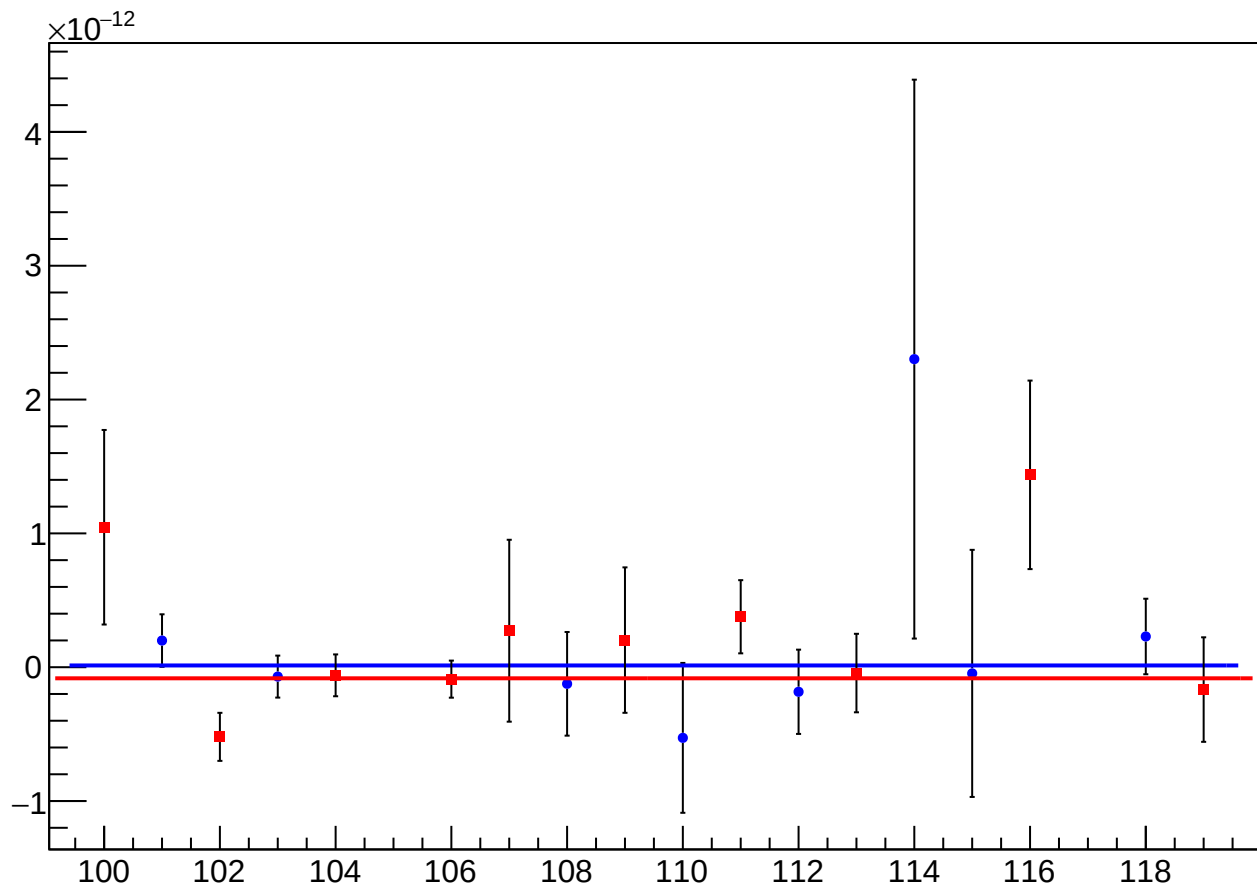
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3246.851 $\pm$ 0.908  $\chi^2$ /NDF: 1662208.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.5/9

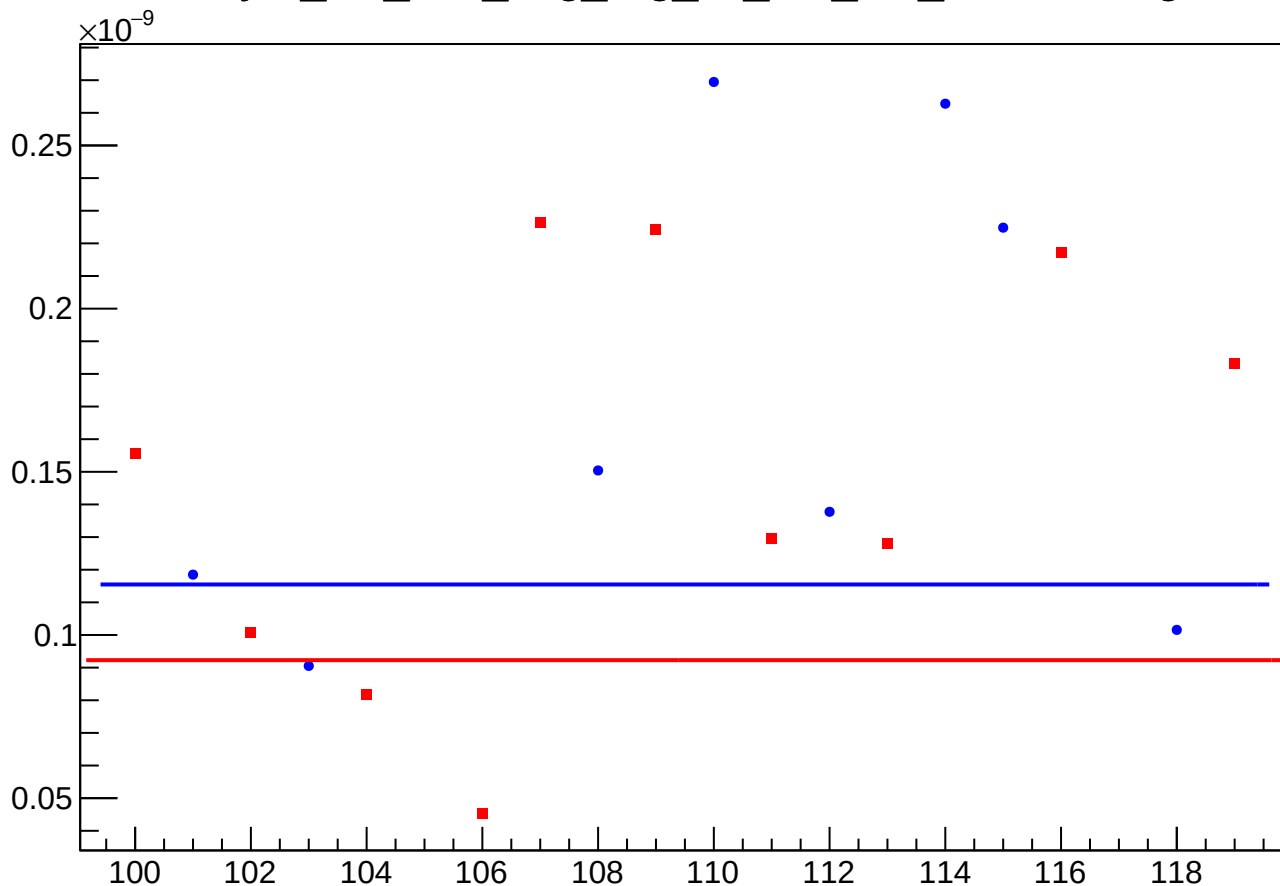
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 21.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 271444.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 692903.3/9

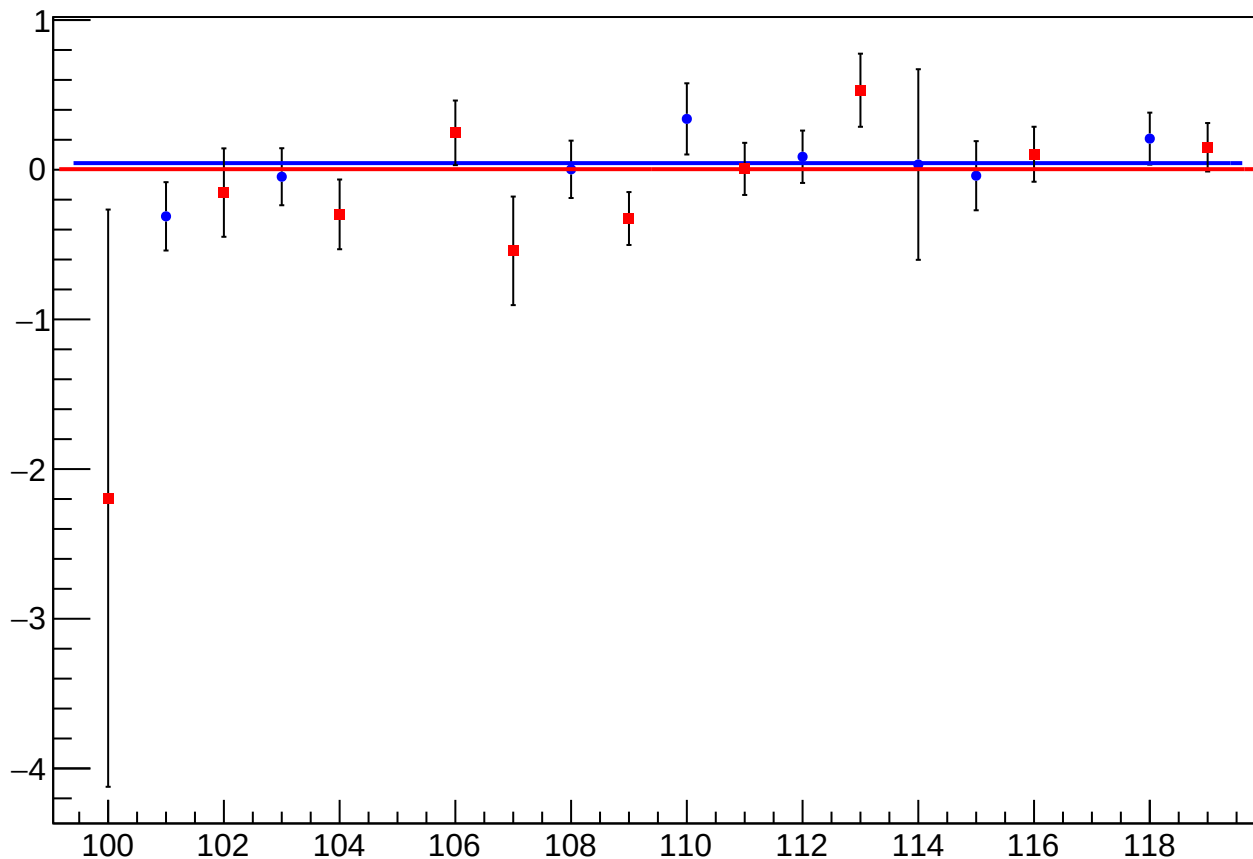
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1031542.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.044 $\pm$ 0.075  $\chi^2$ /NDF: 5.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.004 $\pm$ 0.069  $\chi^2$ /NDF: 16.0/9

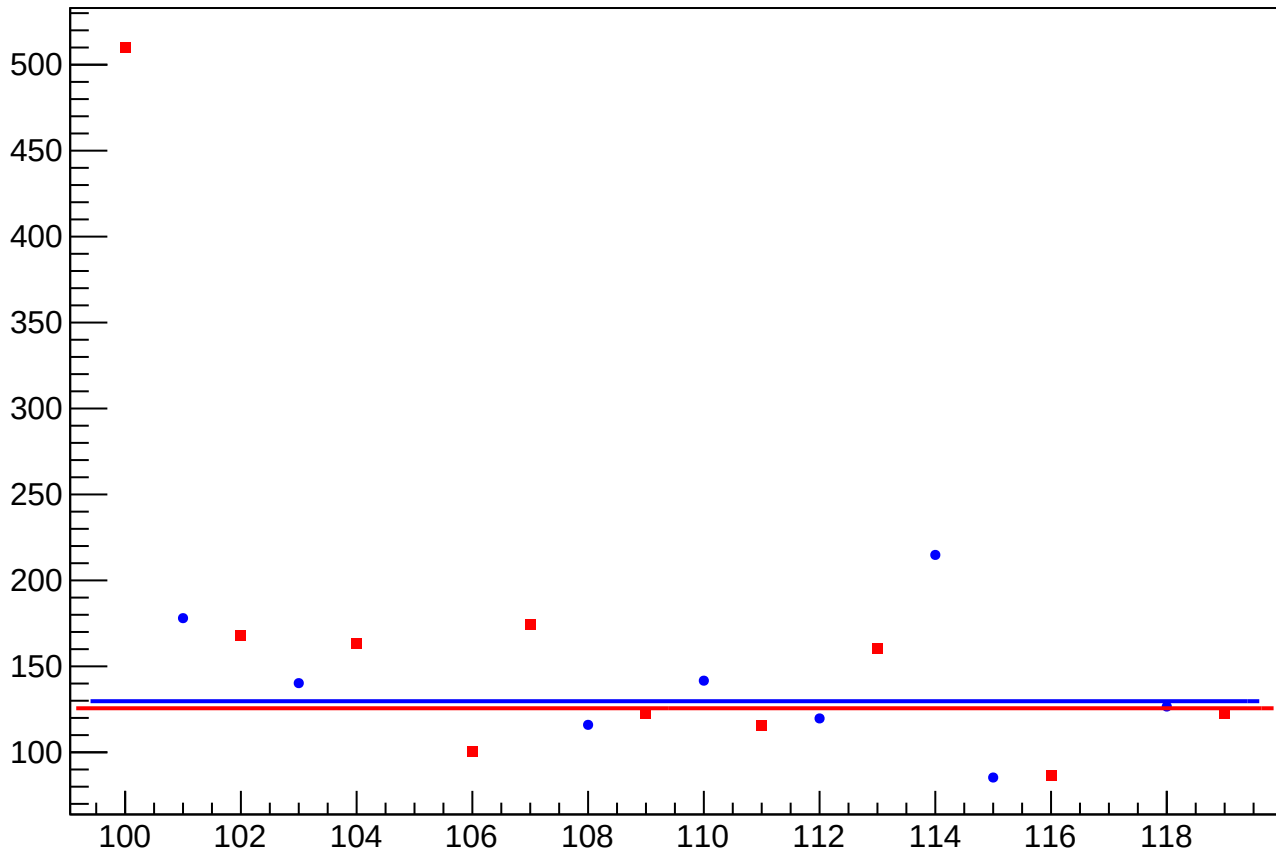
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.022 $\pm$ 0.051  $\chi^2$ /NDF: 21.5/17

- 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: 129.728+/-0.053  $\chi^2/\text{NDF}$ : 227810.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 125.617+/-0.049  $\chi^2/\text{NDF}$ : 374114.5/9

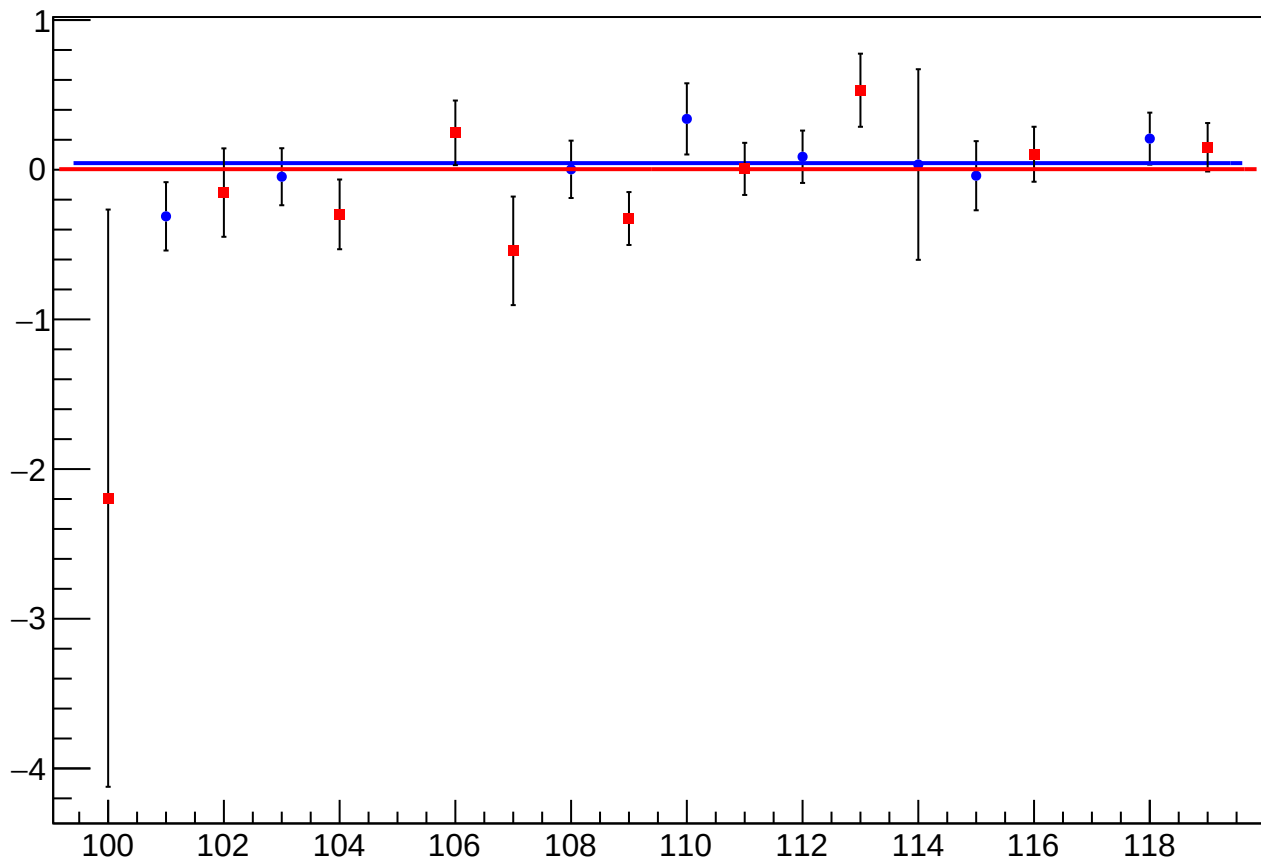
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 127.513+/-0.036  $\chi^2/\text{NDF}$ : 605180.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.044 $\pm$ 0.075  $\chi^2$ /NDF: 5.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.069  $\chi^2$ /NDF: 16.0/9

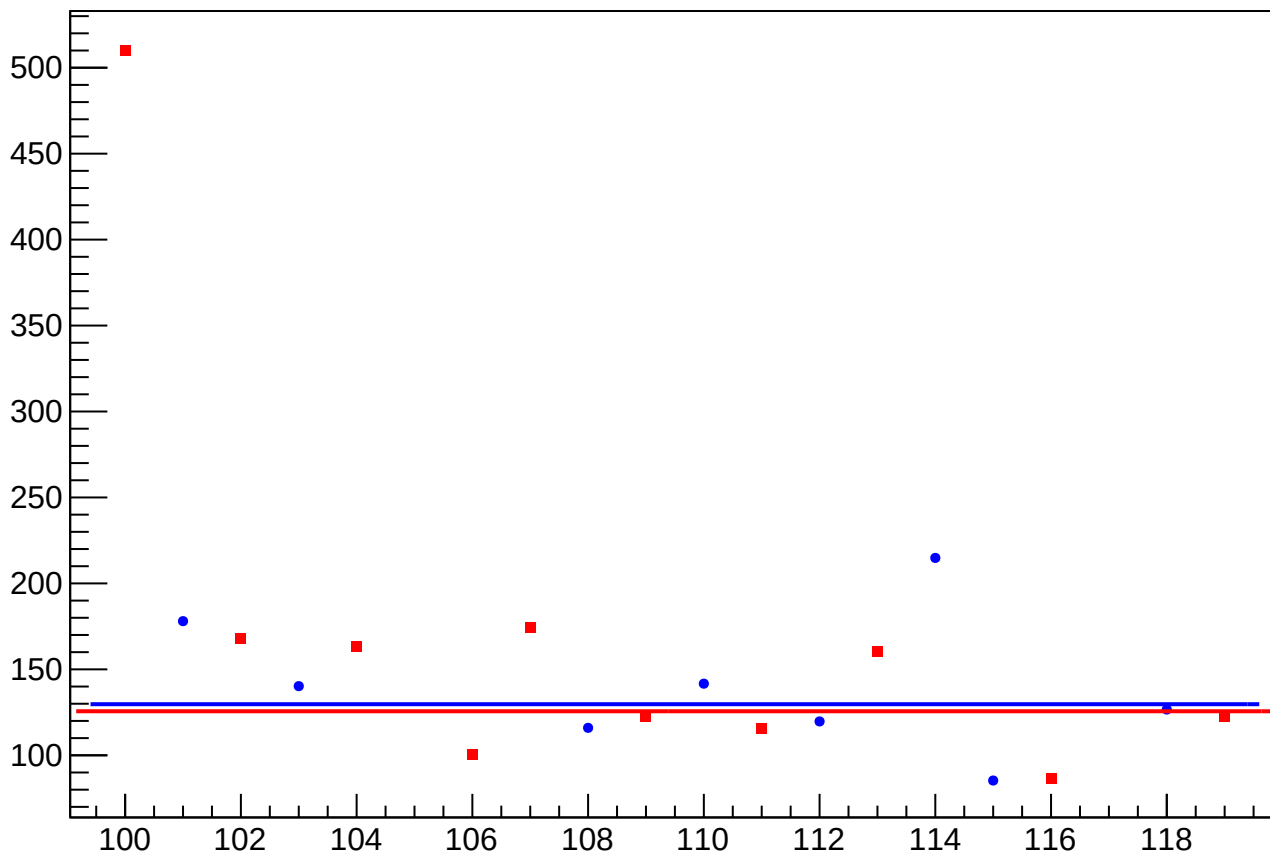
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.022 $\pm$ 0.051  $\chi^2$ /NDF: 21.5/17

- 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: 129.728+/-0.053  $\chi^2/\text{NDF}$ : 227810.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 125.617+/-0.049  $\chi^2/\text{NDF}$ : 374114.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

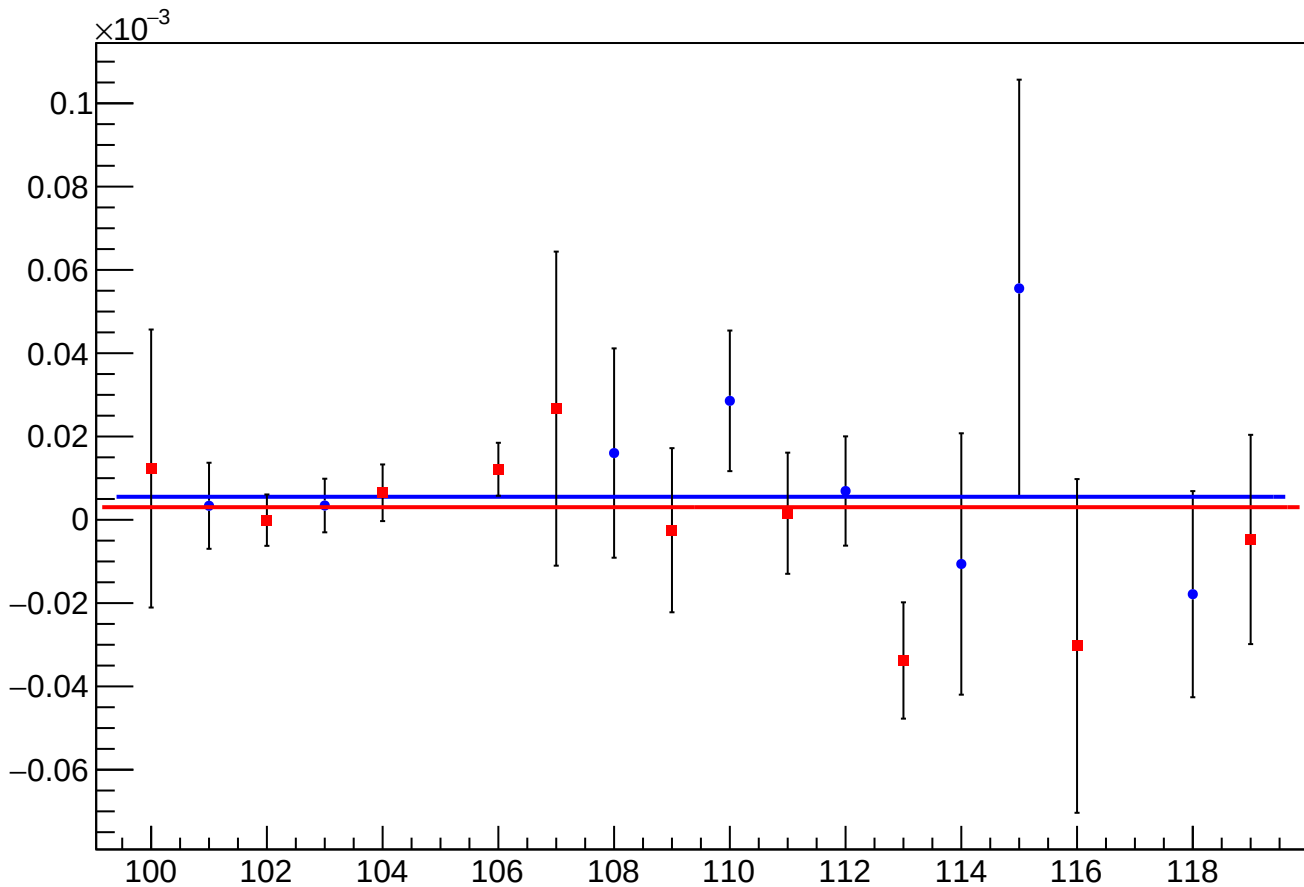
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 127.513+/-0.036  $\chi^2/\text{NDF}$ : 605180.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 10.9/9

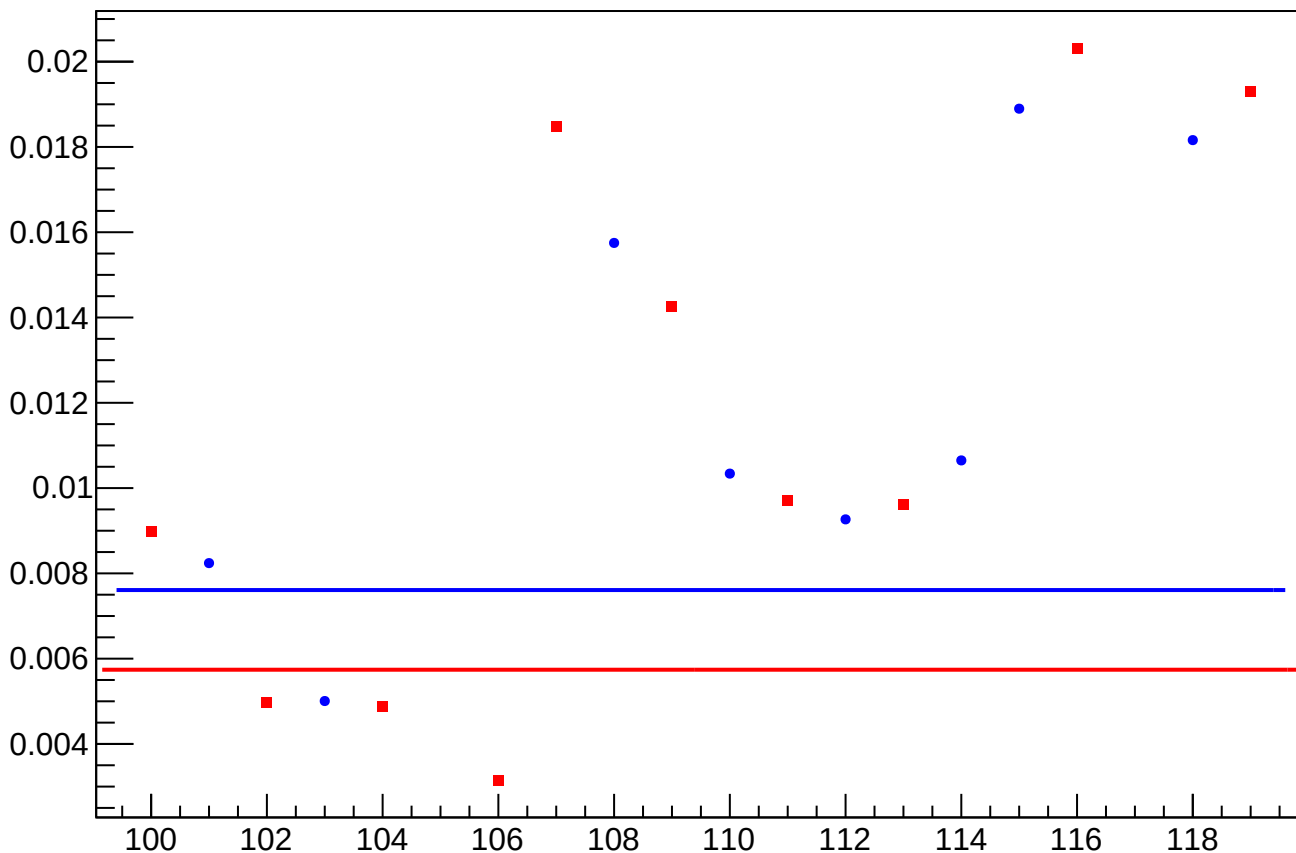
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 15.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 1112505.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2170097.1/9

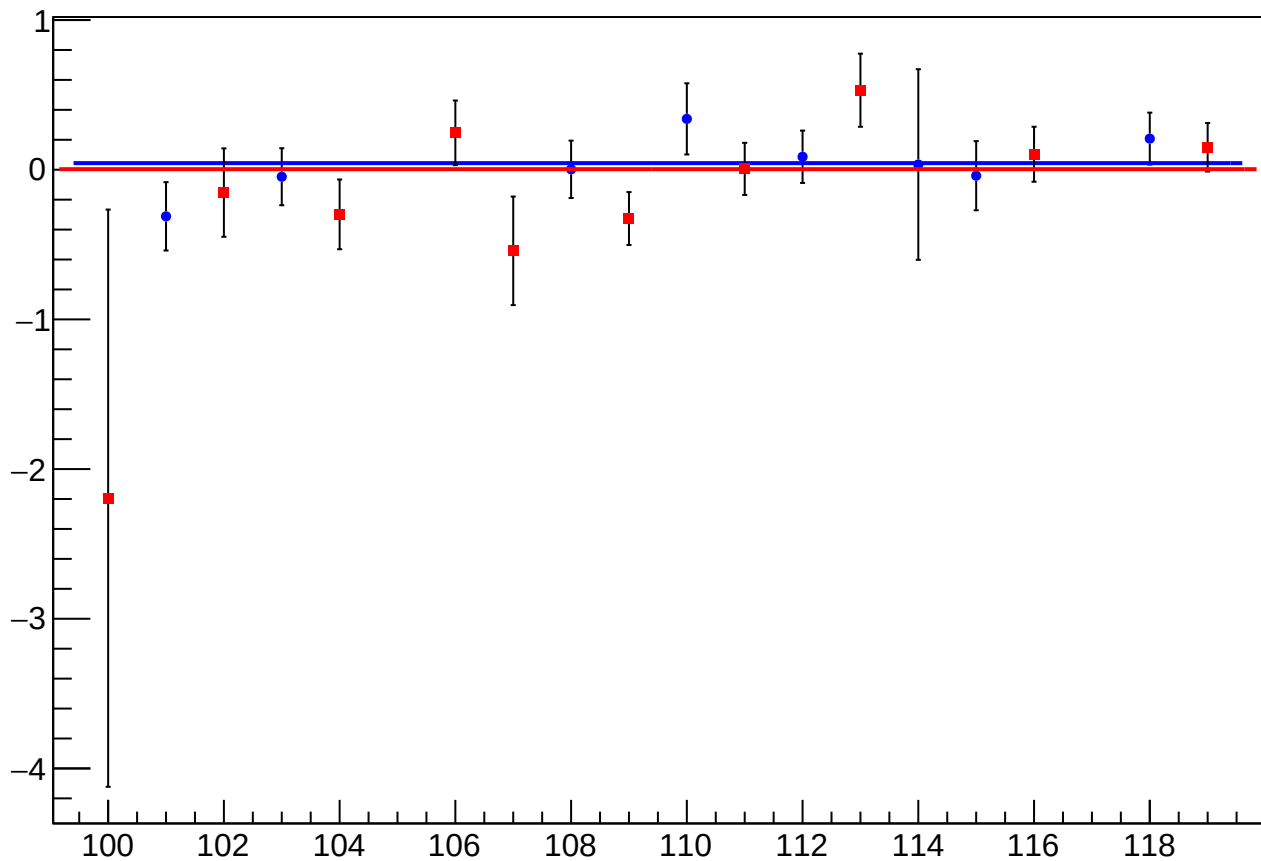
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 3498603.6/17

- 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: 0.044 $\pm$ 0.075  $\chi^2$ /NDF: 5.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.004 $\pm$ 0.069  $\chi^2$ /NDF: 16.0/9

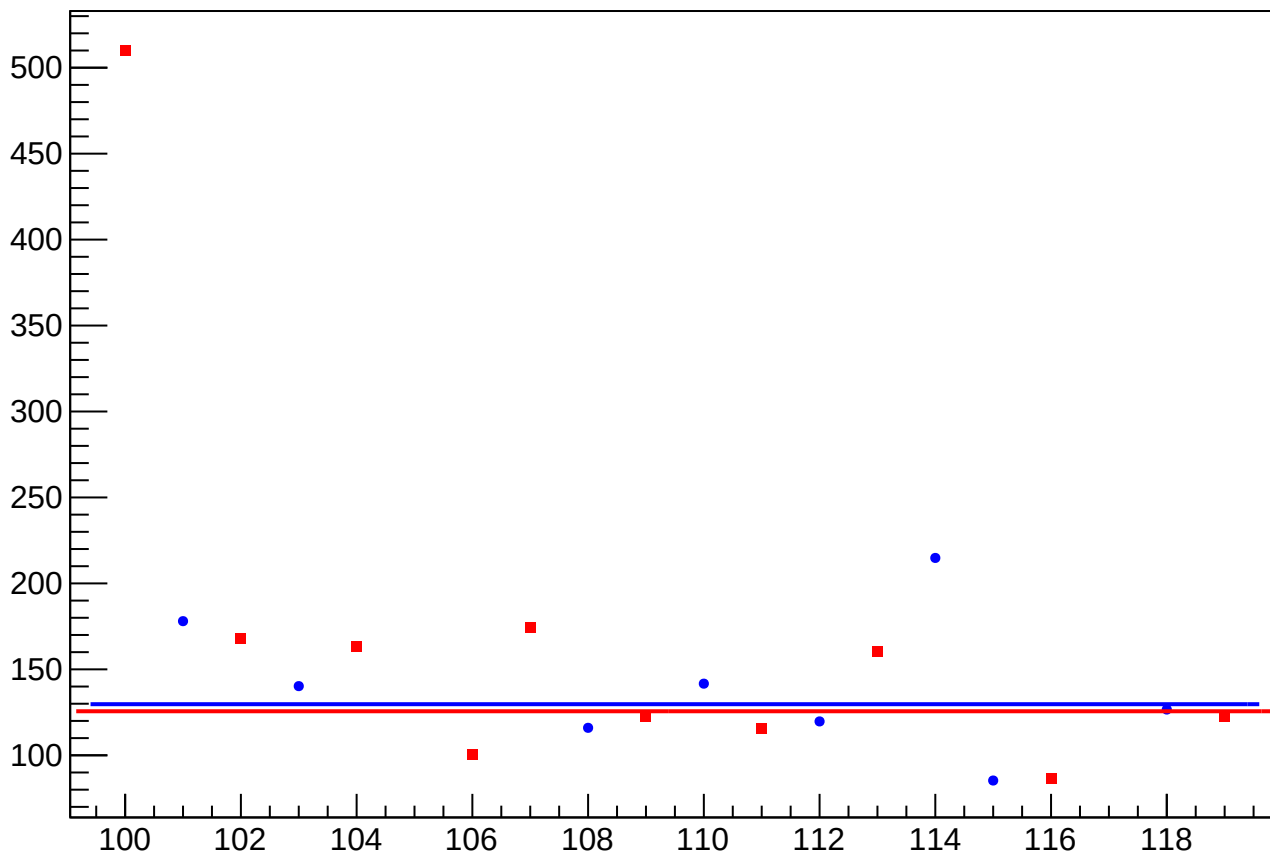
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.022 $\pm$ 0.051  $\chi^2$ /NDF: 21.5/17

- 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: 129.729 $\pm$ 0.053  $\chi^2$ /NDF: 227791.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.619 $\pm$ 0.049  $\chi^2$ /NDF: 374081.7/9

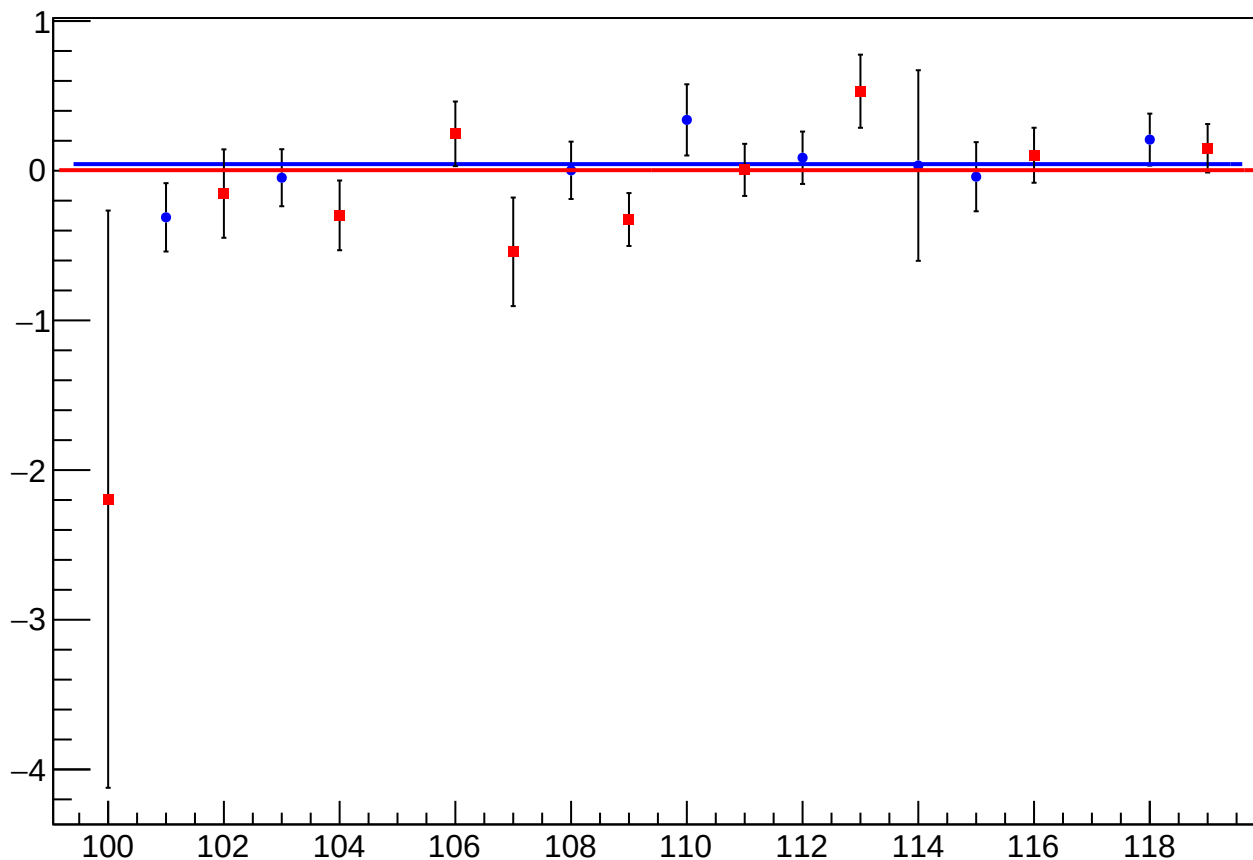
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 127.515 $\pm$ 0.036  $\chi^2$ /NDF: 605128.4/17

- 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: 0.044 $\pm$ 0.075  $\chi^2$ /NDF: 5.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.004 $\pm$ 0.069  $\chi^2$ /NDF: 16.0/9

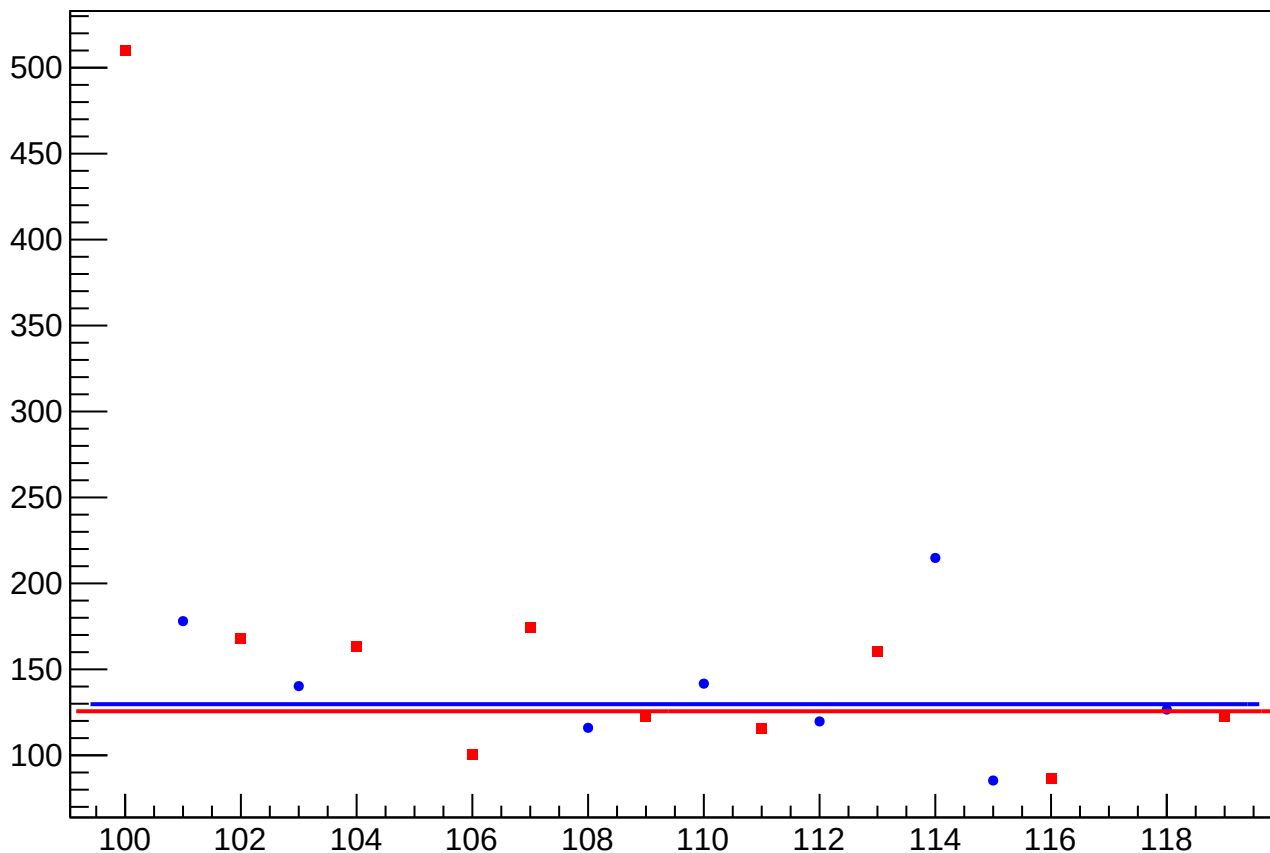
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.022 $\pm$ 0.051  $\chi^2$ /NDF: 21.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 129.729 $\pm$ 0.053  $\chi^2$ /NDF: 227791.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.619 $\pm$ 0.049  $\chi^2$ /NDF: 374081.7/9

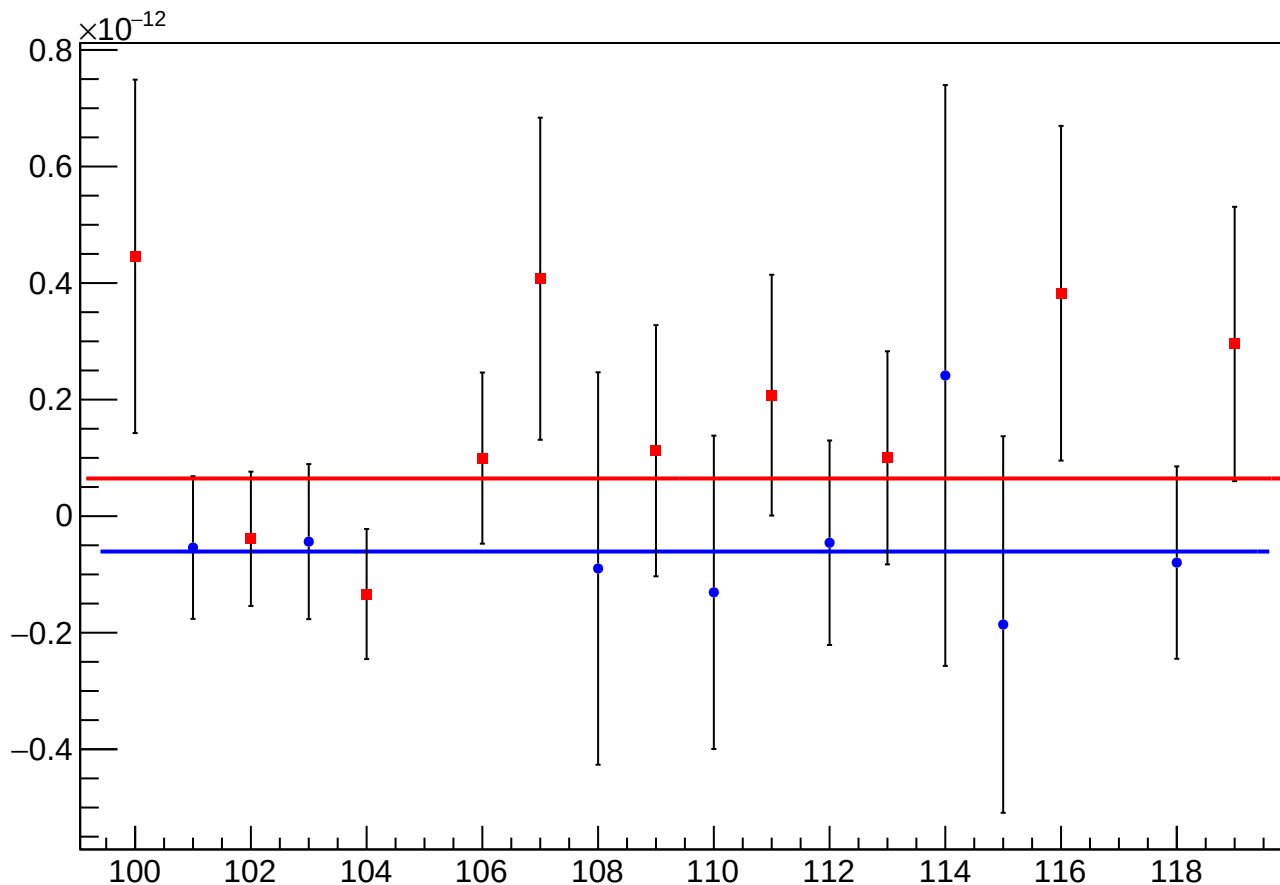
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 127.515 $\pm$ 0.036  $\chi^2$ /NDF: 605128.4/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.9/9

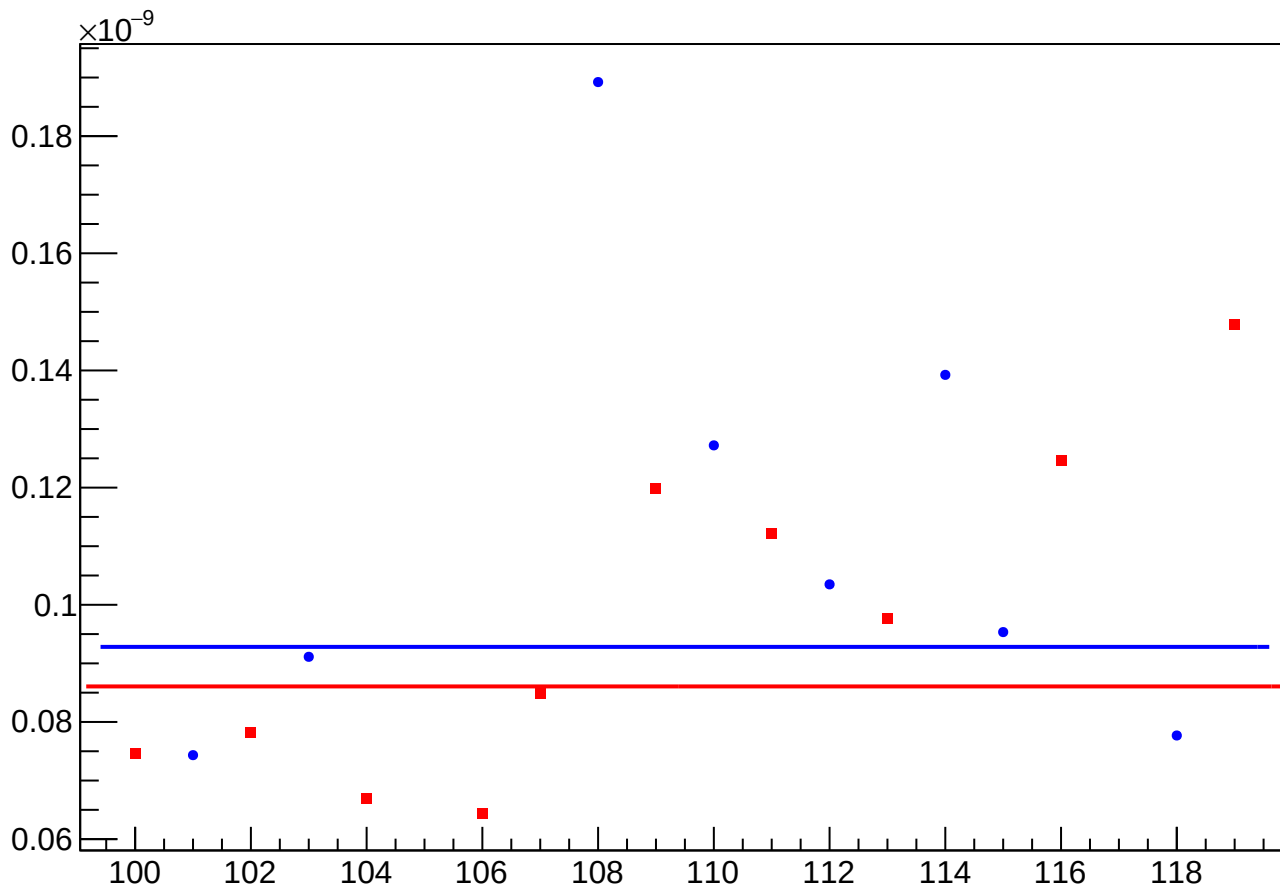
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 284307.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 377540.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

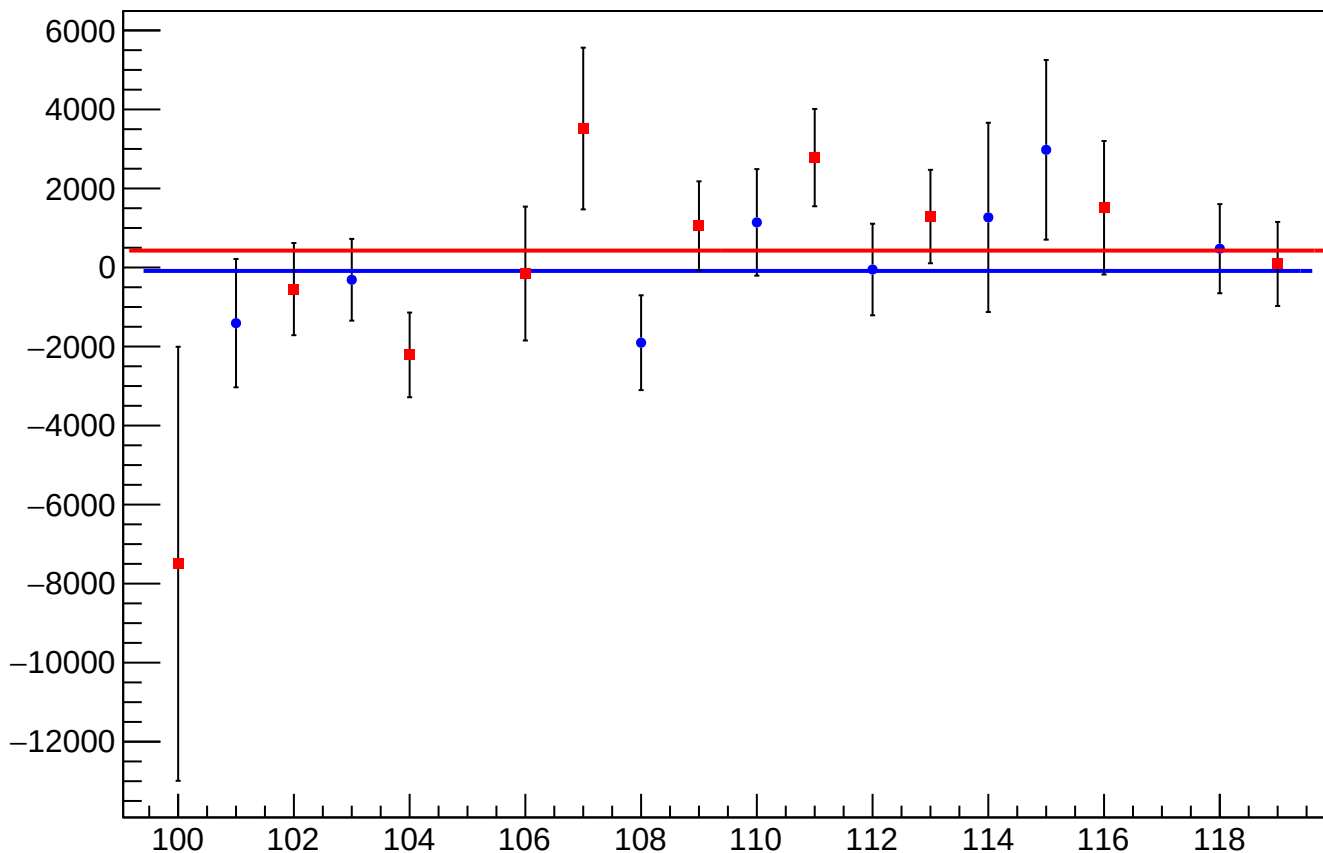
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 674174.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -86.611+/-473.551  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 428.095+/-421.605  $\chi^2/\text{NDF}$ : 16.3/9

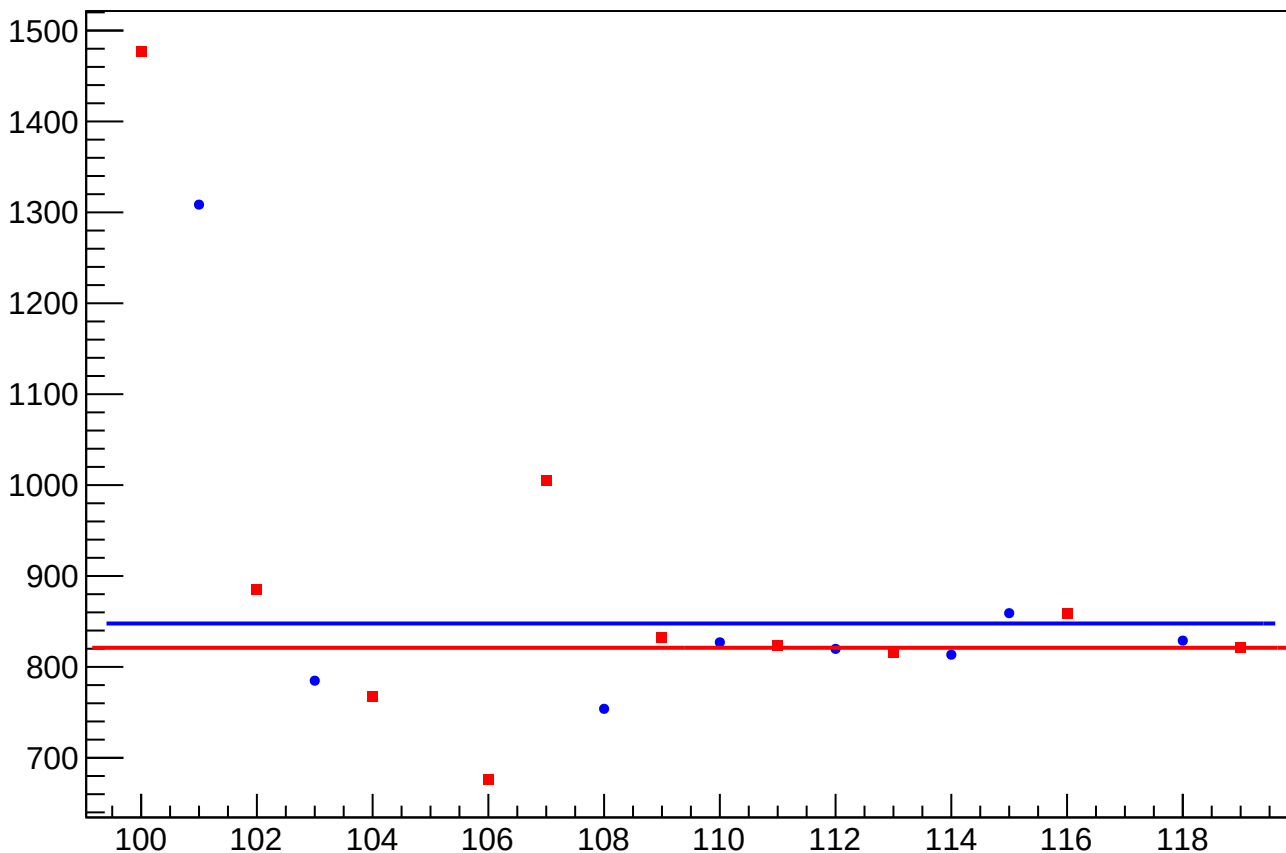
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 200.510+/-314.890  $\chi^2/\text{NDF}$ : 23.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 847.762 $\pm$ 0.335  $\chi^2$ /NDF: 183421.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 821.036 $\pm$ 0.292  $\chi^2$ /NDF: 81908.5/9

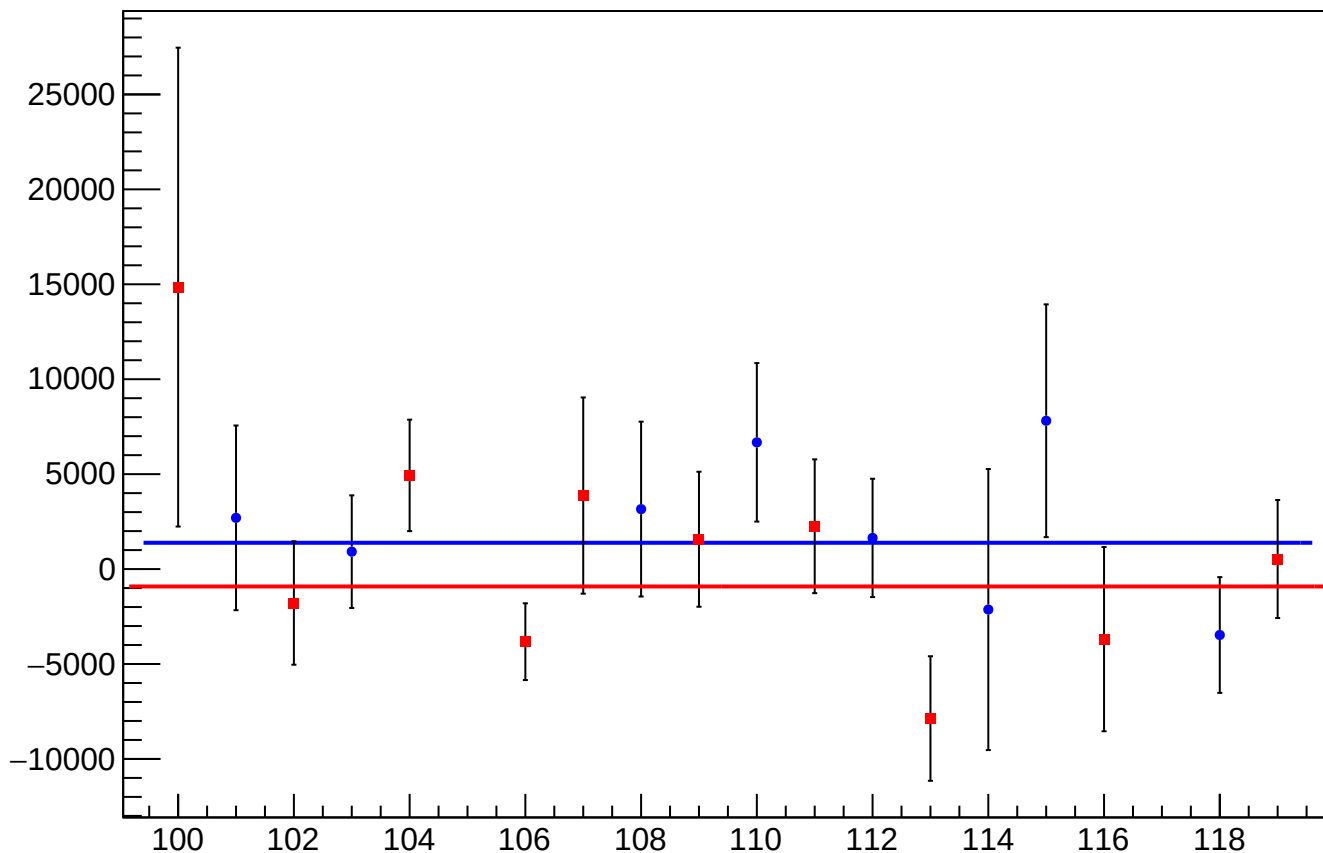
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 832.575 $\pm$ 0.220  $\chi^2$ /NDF: 268949.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_reg\_correction\_mean vs Slug



Right In: 1385.381+/-1392.287  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -915.601+/-1055.529  $\chi^2/\text{NDF}$ : 14.9/9

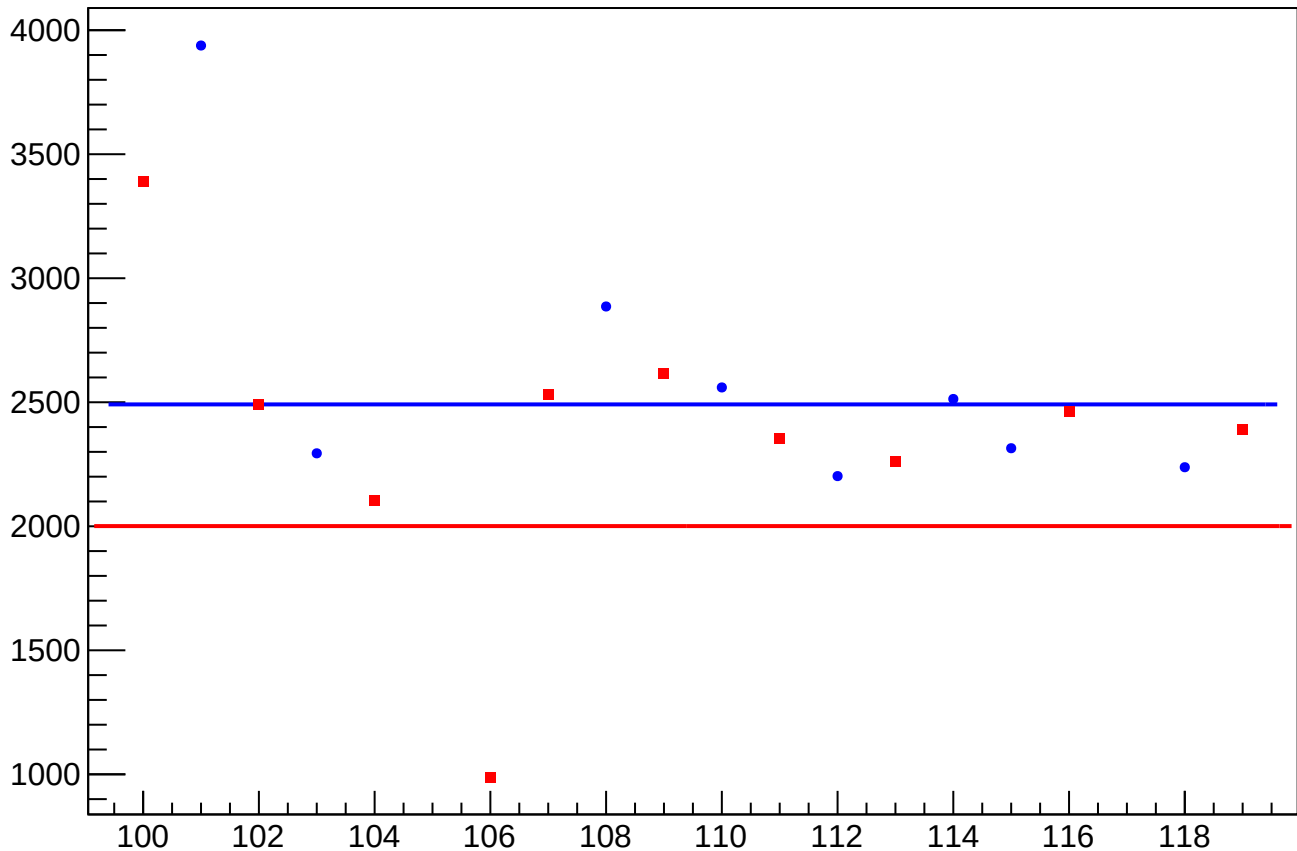
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -75.786+/-841.131  $\chi^2/\text{NDF}$ : 22.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_reg\_correction\_rms vs Slug



Right In: 2491.348+/-0.984  $\chi^2/\text{NDF}$ : 233756.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2000.770+/-0.746  $\chi^2/\text{NDF}$ : 737815.5/9

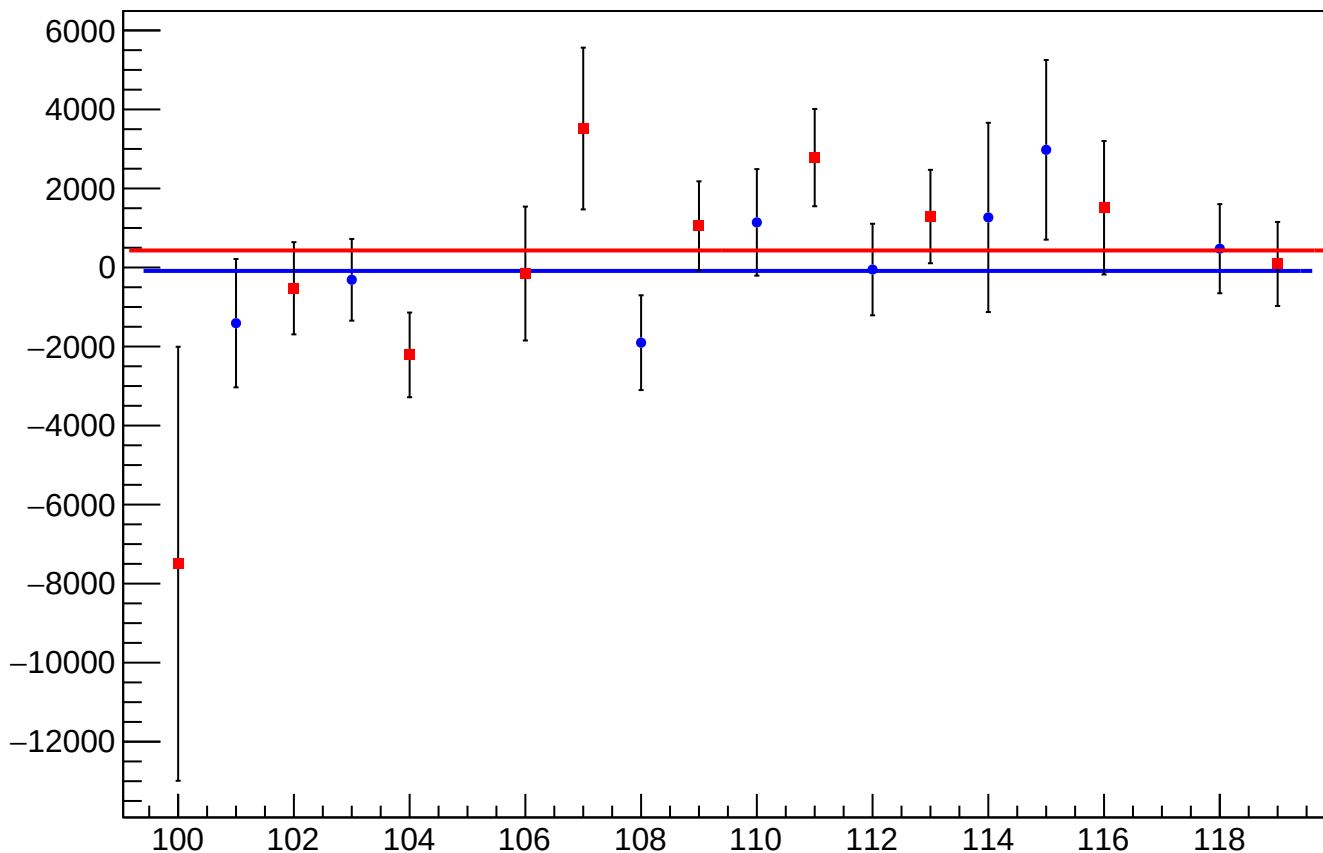
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2179.822+/-0.595  $\chi^2/\text{NDF}$ : 1129251.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -86.733+/-473.551  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 430.920+/-421.616  $\chi^2/\text{NDF}$ : 16.2/9

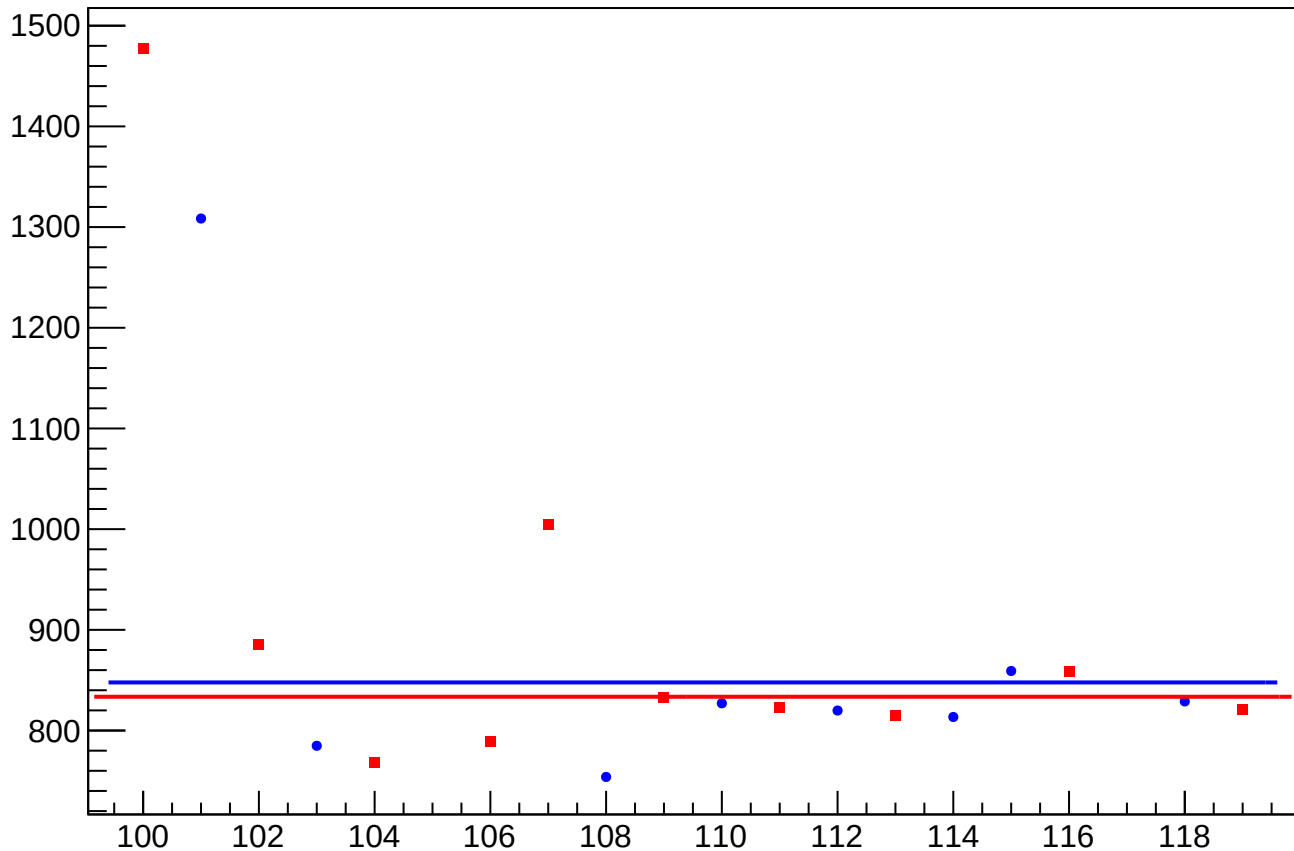
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 202.025+/-314.894  $\chi^2/\text{NDF}$ : 23.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 847.762 $\pm$ 0.335  $\chi^2$ /NDF: 183420.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 833.560 $\pm$ 0.296  $\chi^2$ /NDF: 56066.8/9

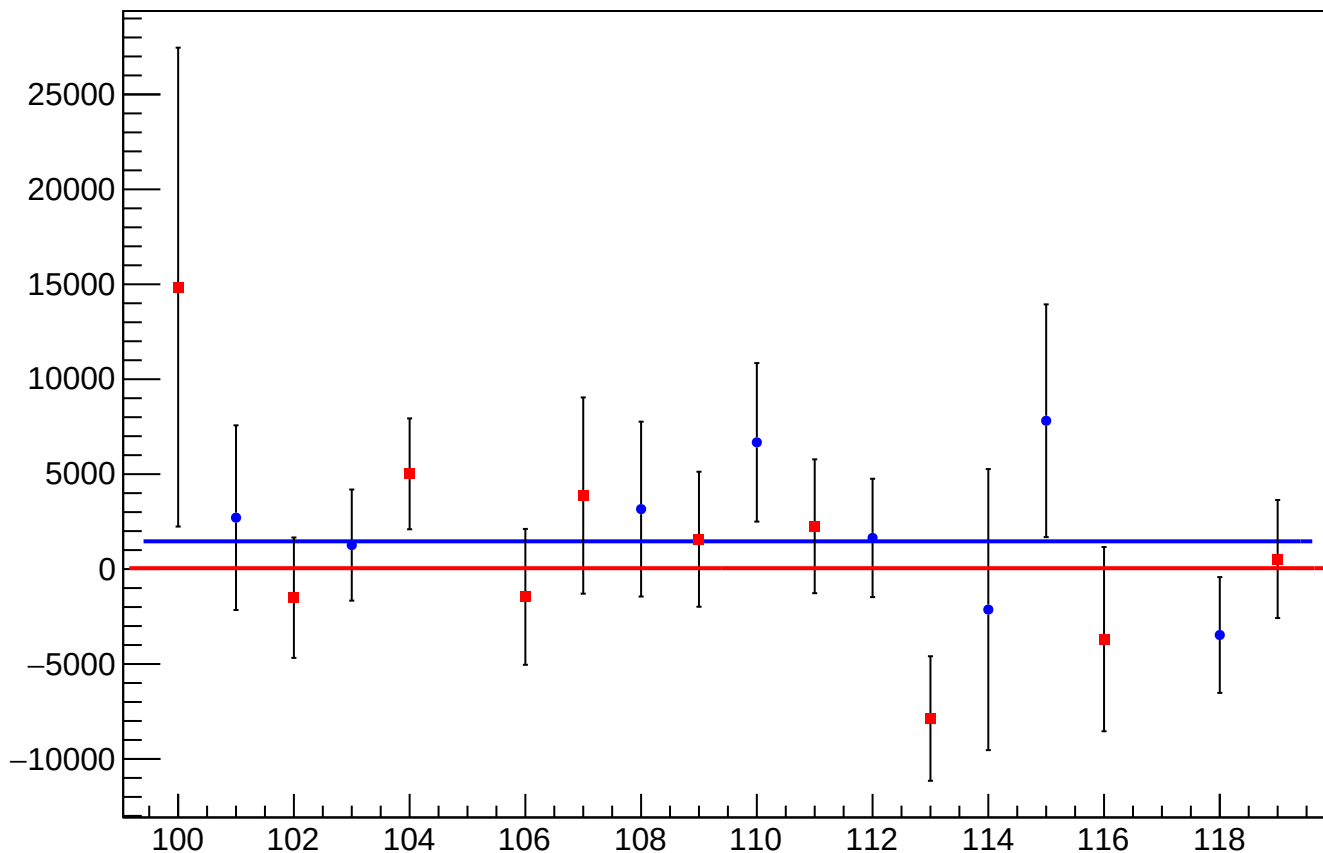
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 839.778 $\pm$ 0.222  $\chi^2$ /NDF: 240498.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_cor\_correction\_mean vs Slug



Right In: 1461.593+/-1388.198  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.878+/-1164.822  $\chi^2/\text{NDF}$ : 12.3/9

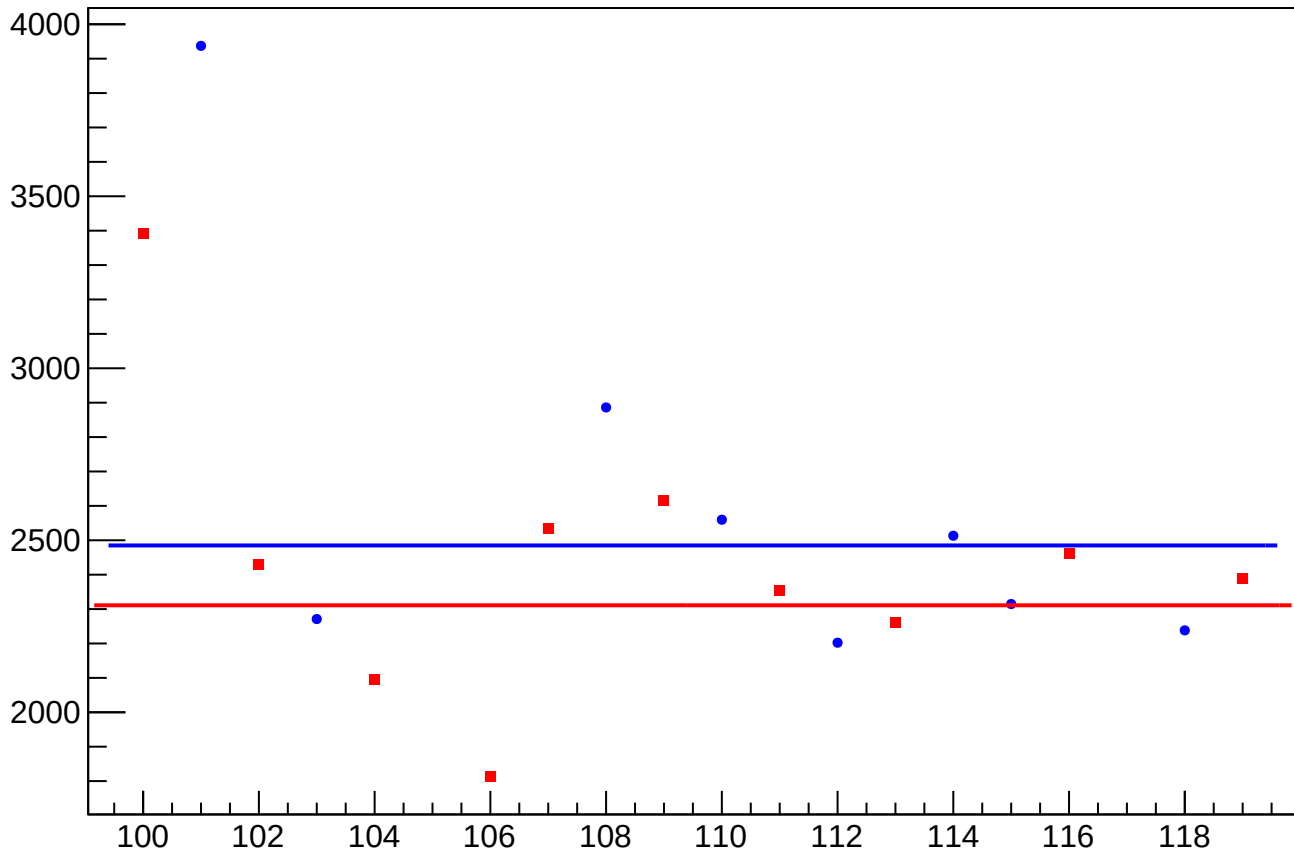
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 631.396+/-892.310  $\chi^2/\text{NDF}$ : 18.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_cor\_correction\_rms vs Slug



Right In: 2484.979+/-0.982  $\chi^2/\text{NDF}$ : 236052.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2311.019+/-0.824  $\chi^2/\text{NDF}$ : 89817.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

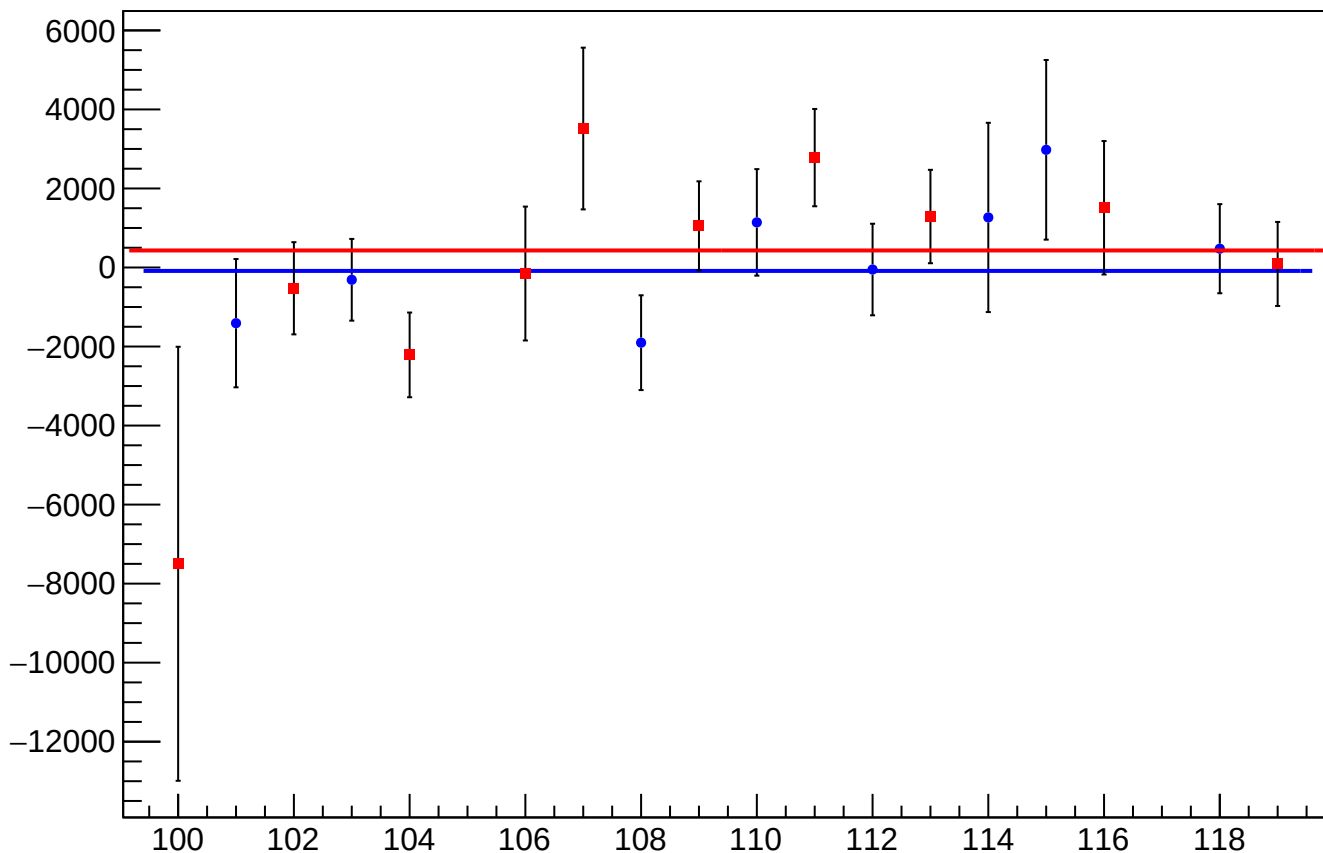
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2382.894+/-0.631  $\chi^2/\text{NDF}$ : 344300.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -86.733 $\pm$ 473.551  $\chi^2$ /NDF: 6.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 430.920 $\pm$ 421.616  $\chi^2$ /NDF: 16.2/9

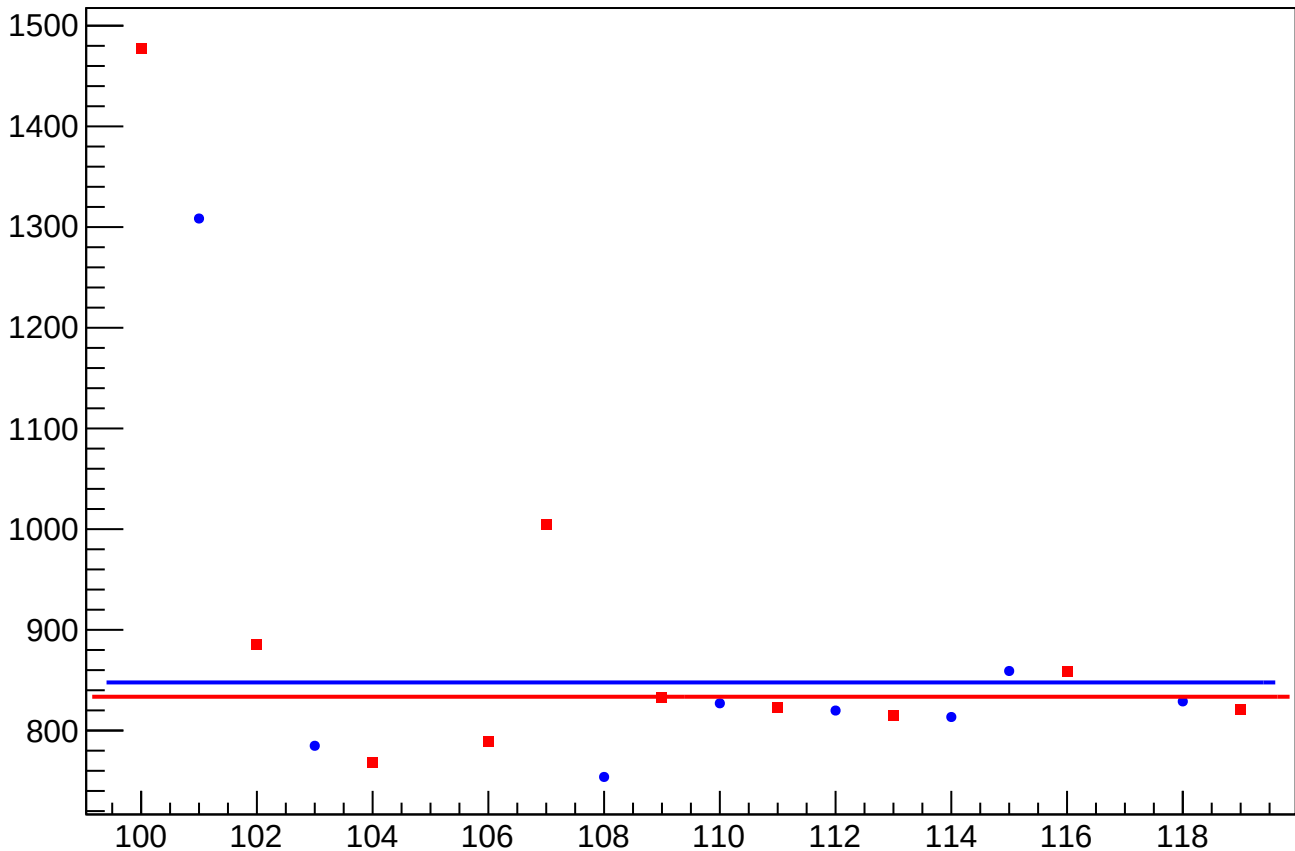
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 202.025 $\pm$ 314.894  $\chi^2$ /NDF: 23.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 847.762 $\pm$ 0.335  $\chi^2$ /NDF: 183420.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 833.560 $\pm$ 0.296  $\chi^2$ /NDF: 56066.8/9

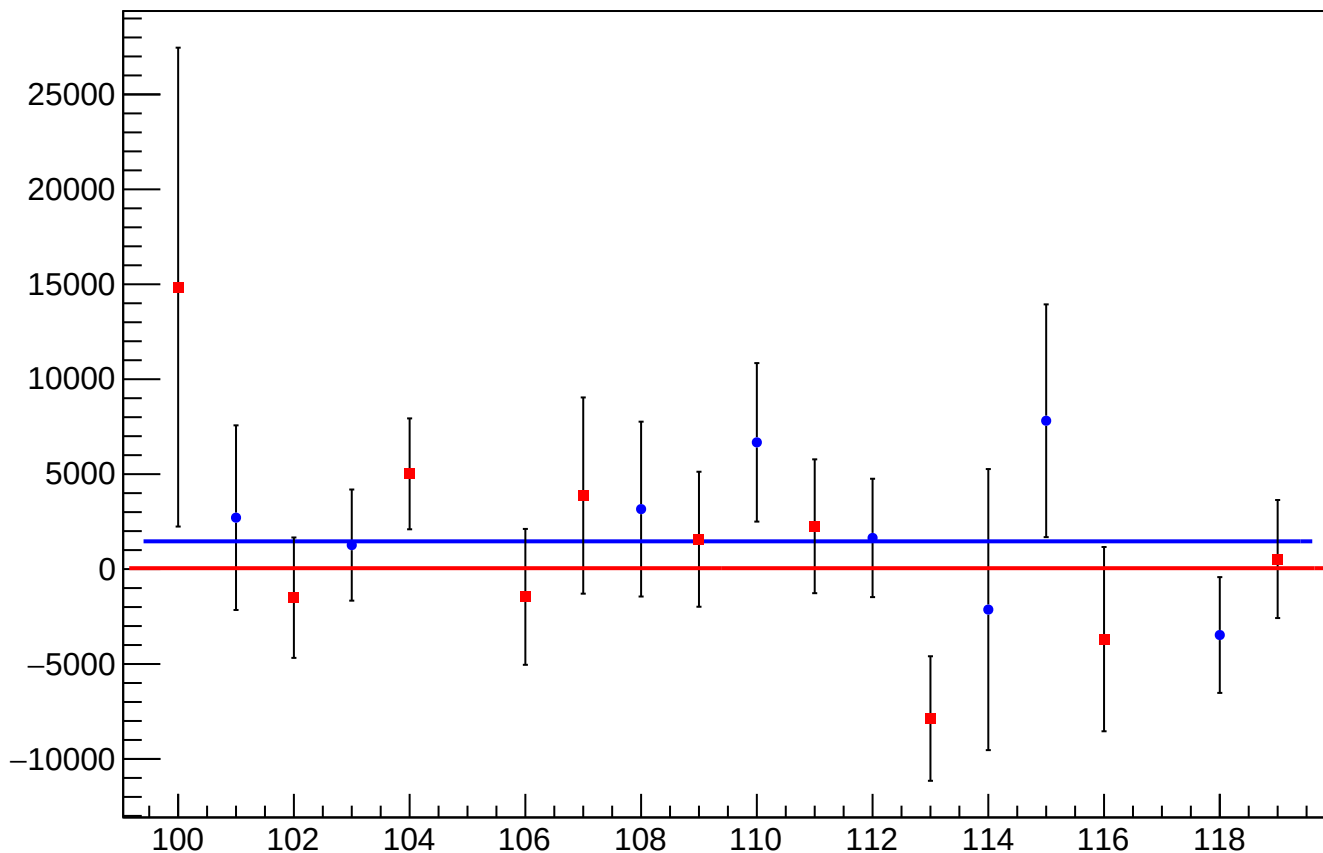
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 839.778 $\pm$ 0.222  $\chi^2$ /NDF: 240498.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 1461.593+/-1388.198  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.878+/-1164.822  $\chi^2/\text{NDF}$ : 12.3/9

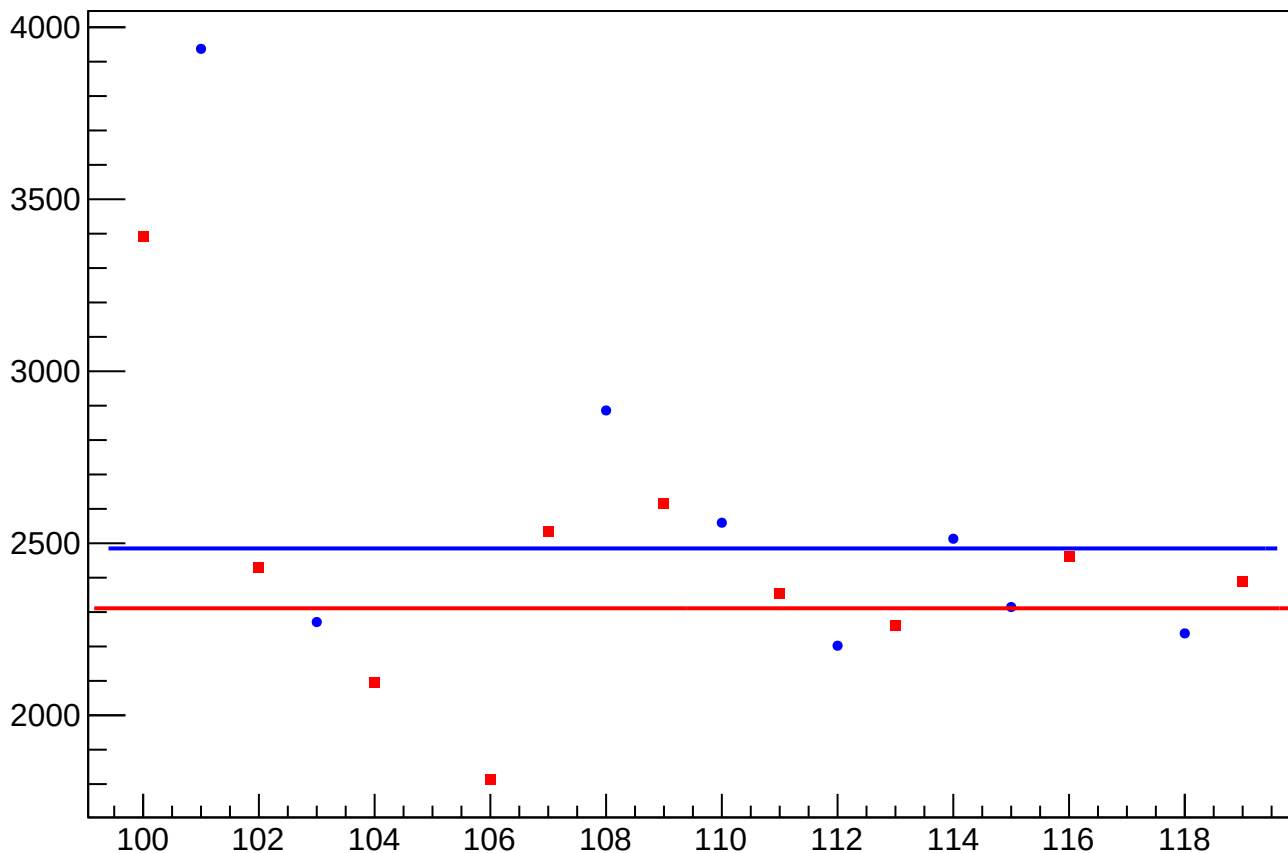
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 631.396+/-892.310  $\chi^2/\text{NDF}$ : 18.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 2484.979+/-0.982  $\chi^2/\text{NDF}$ : 236052.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2311.019+/-0.824  $\chi^2/\text{NDF}$ : 89817.5/9

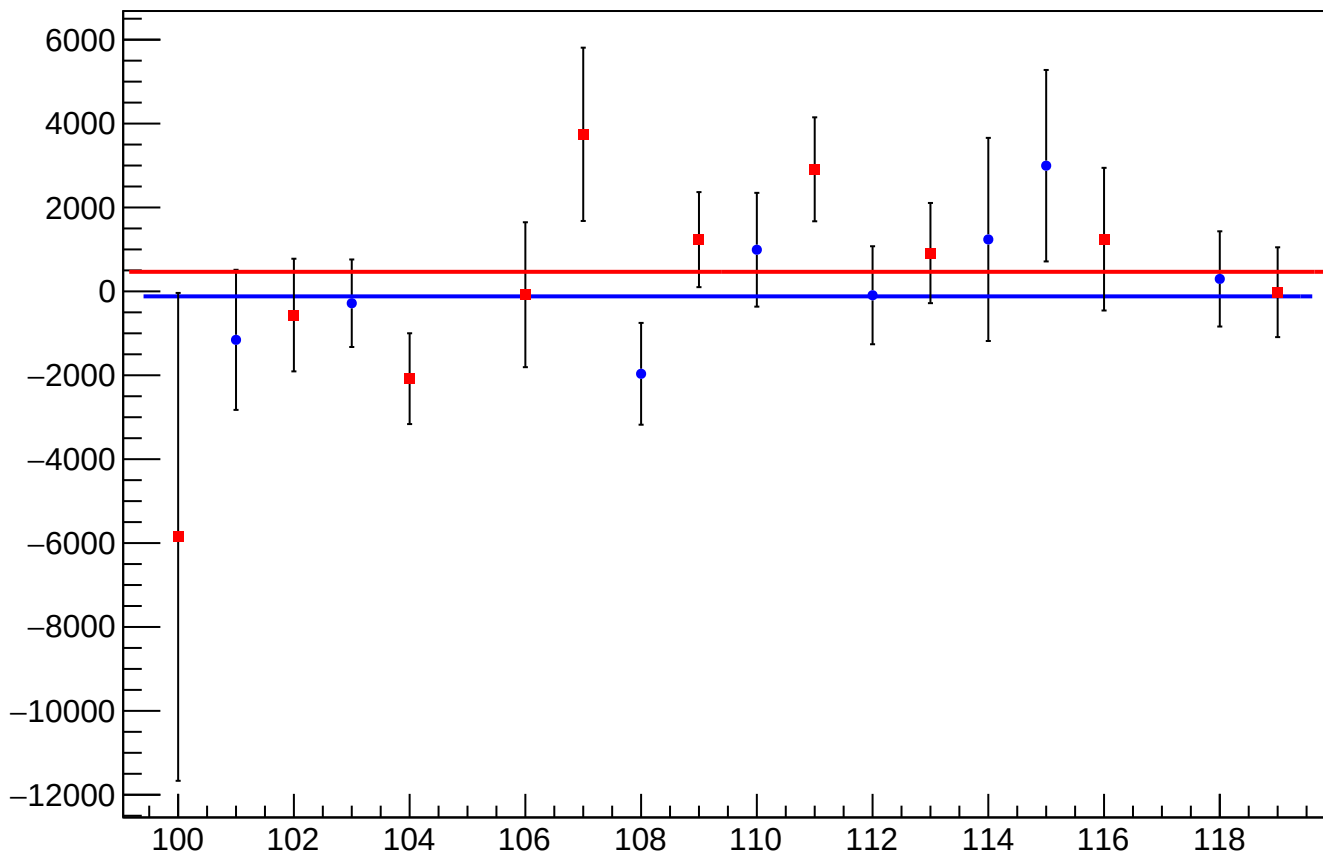
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2382.894+/-0.631  $\chi^2/\text{NDF}$ : 344300.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -118.912 $\pm$ 478.274  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 466.303 $\pm$ 432.036  $\chi^2$ /NDF: 14.8/9

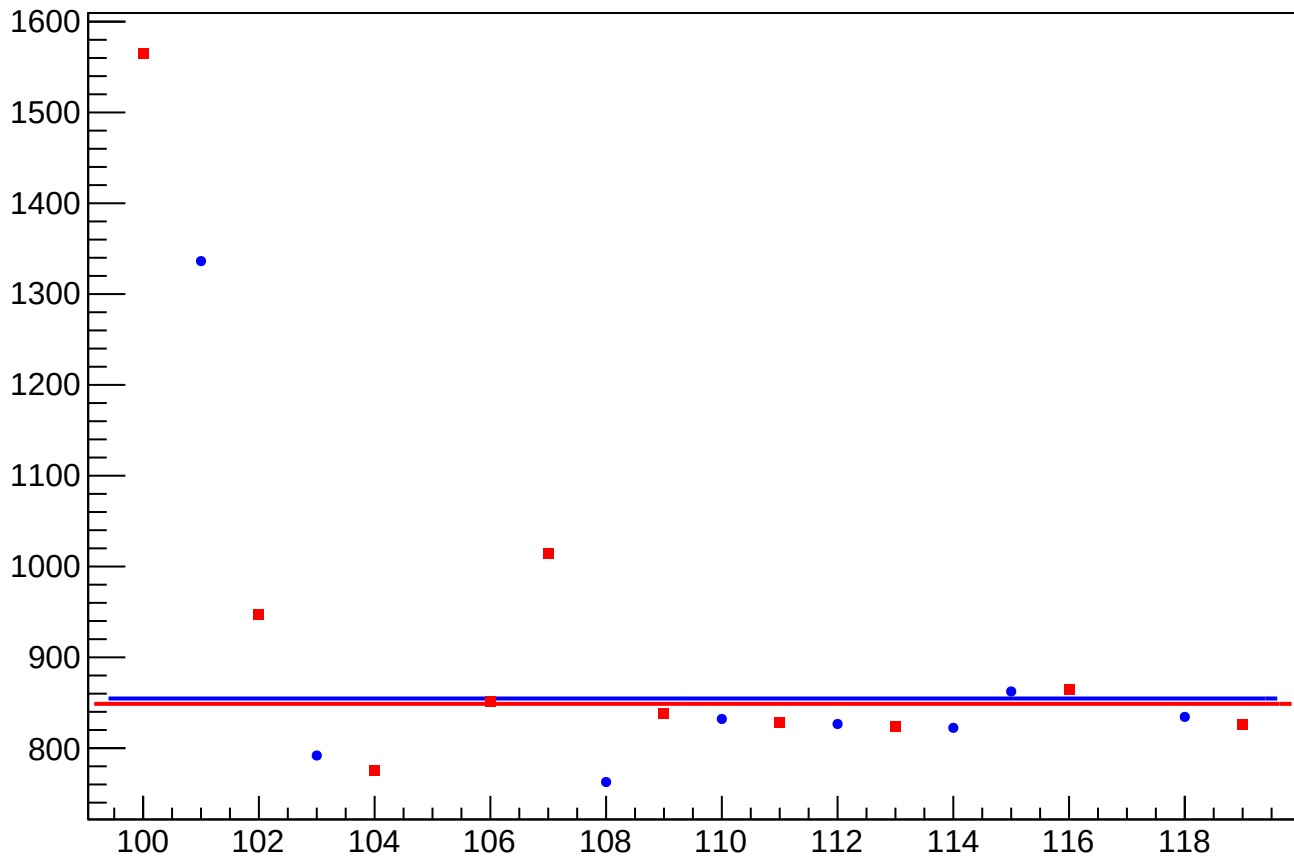
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 203.344 $\pm$ 320.600  $\chi^2$ /NDF: 21.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 854.681 $\pm$ 0.338  $\chi^2$ /NDF: 187827.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 848.796 $\pm$ 0.305  $\chi^2$ /NDF: 65829.5/9

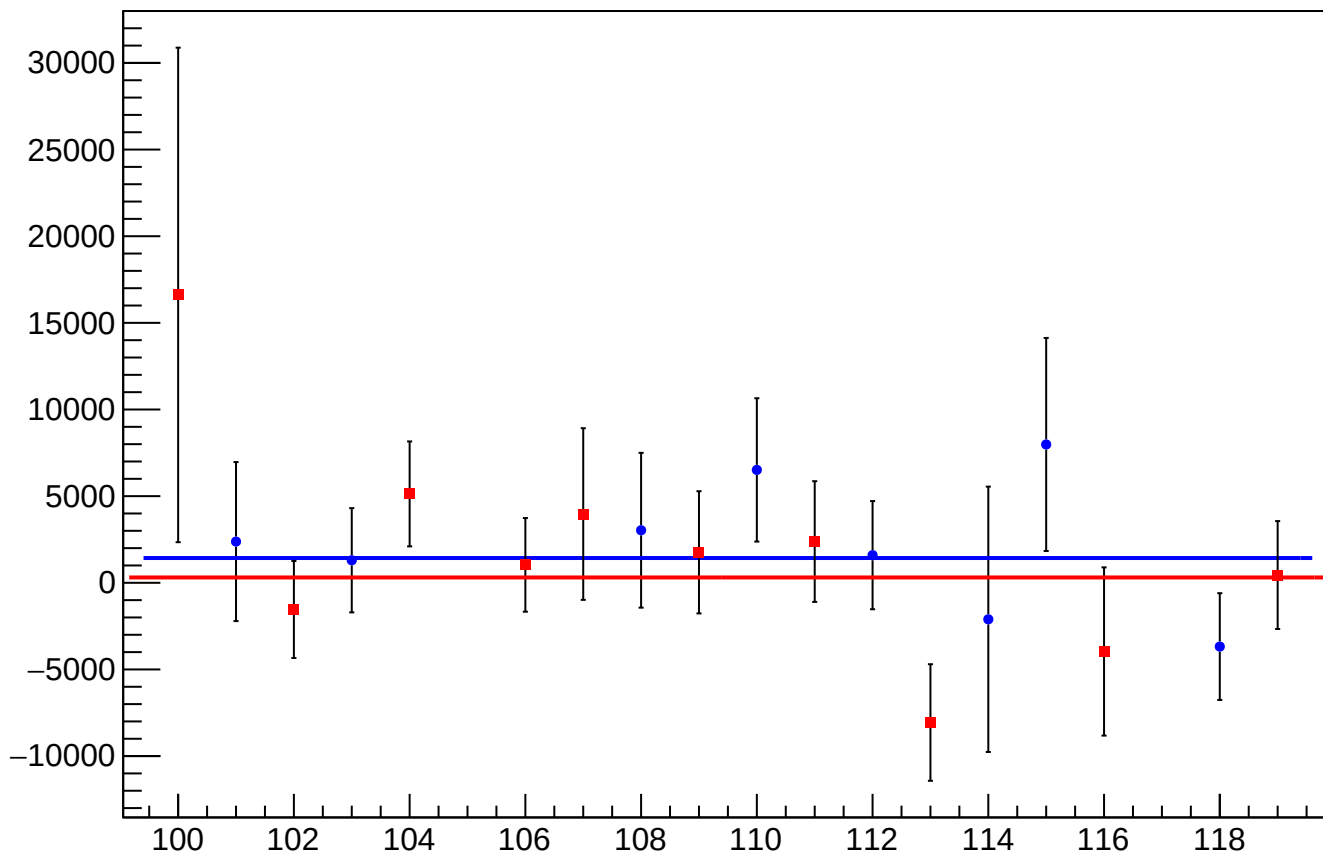
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 851.436 $\pm$ 0.226  $\chi^2$ /NDF: 253823.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_dit\_correction\_mean vs Slug



Right In: 1429.839+/-1389.266  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 307.588+/-1106.775  $\chi^2/\text{NDF}$ : 12.4/9

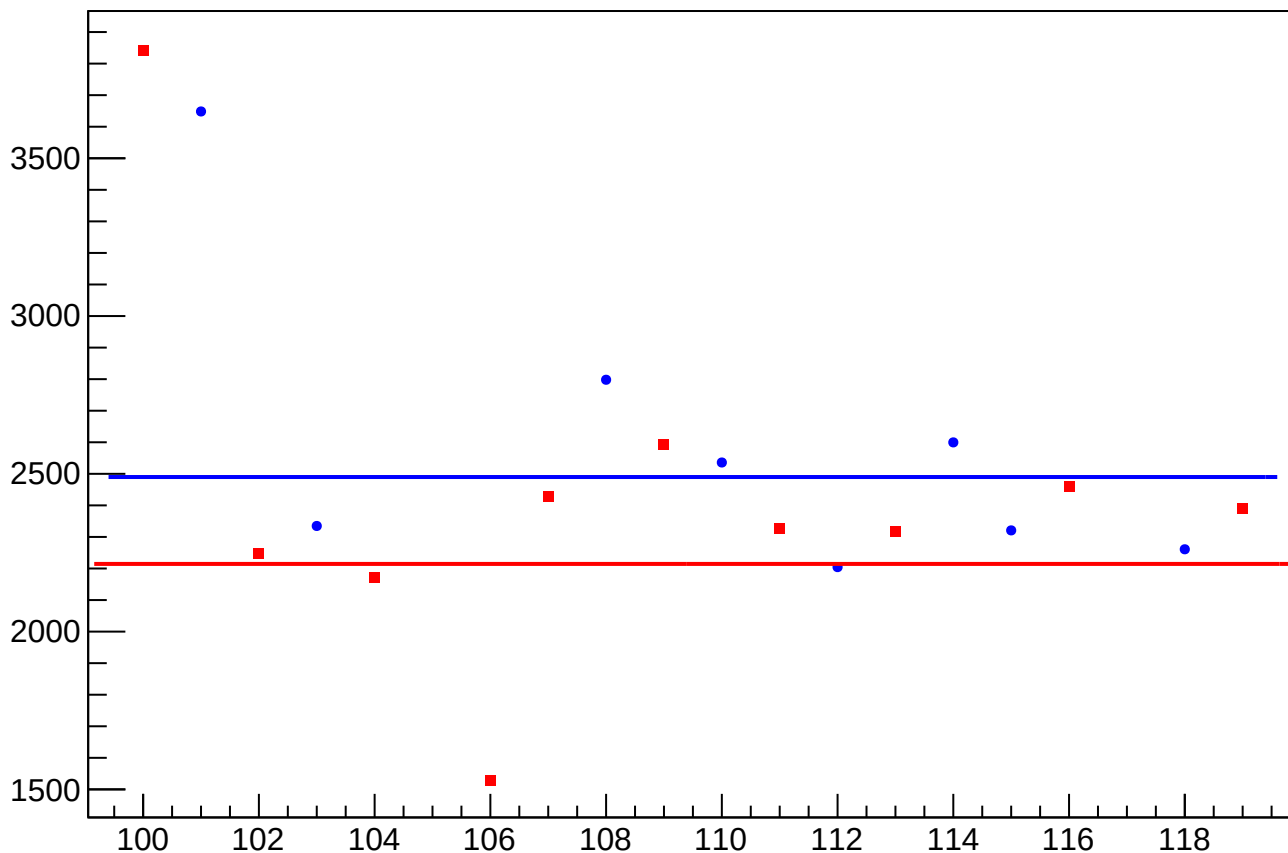
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 743.308+/-865.654  $\chi^2/\text{NDF}$ : 18.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_dit\_correction\_rms vs Slug



Right In: 2489.890+/-0.982  $\chi^2/\text{NDF}$ : 172296.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2214.485+/-0.783  $\chi^2/\text{NDF}$ : 197592.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

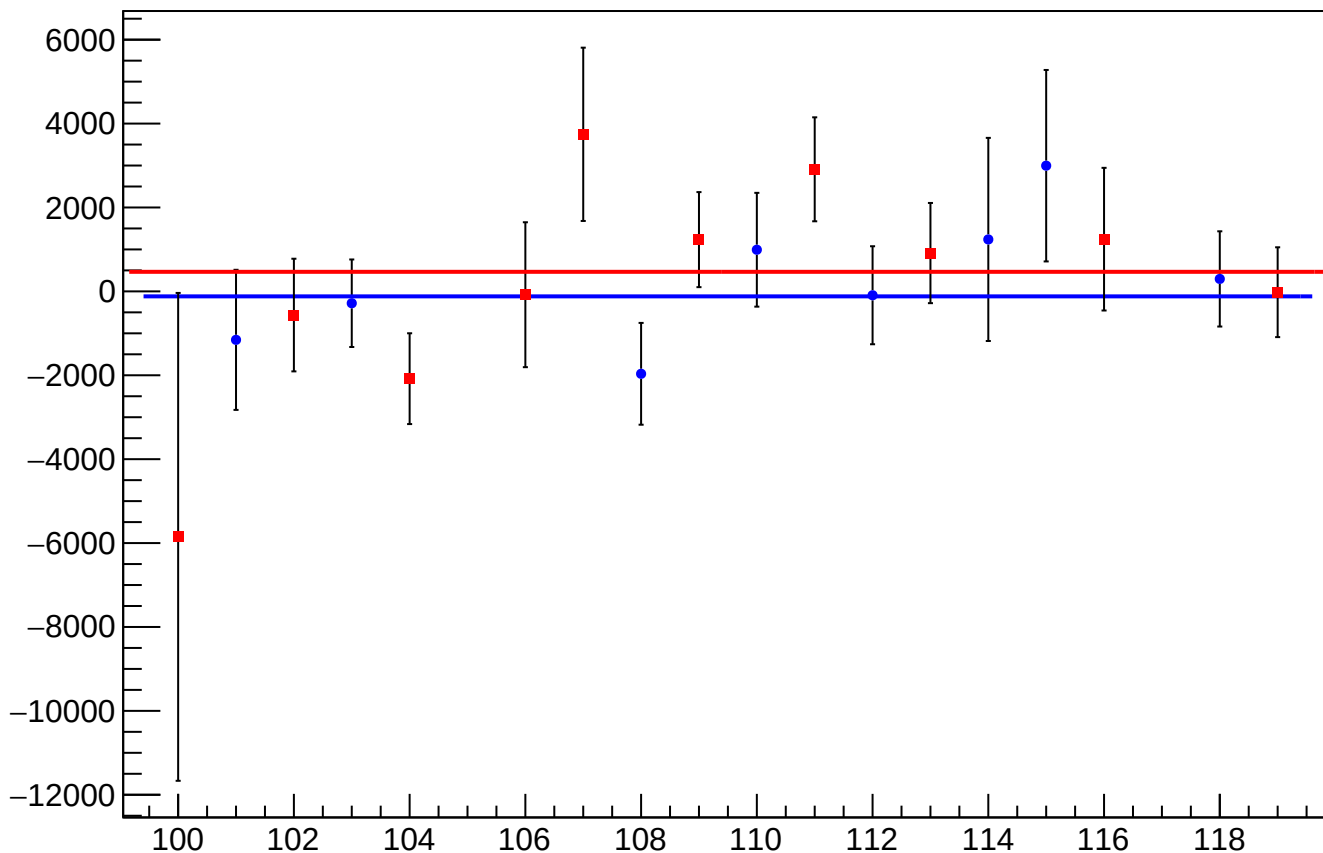
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2321.413+/-0.612  $\chi^2/\text{NDF}$ : 417969.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -118.918+/-478.274  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 466.312+/-432.036  $\chi^2$ /NDF: 14.8/9

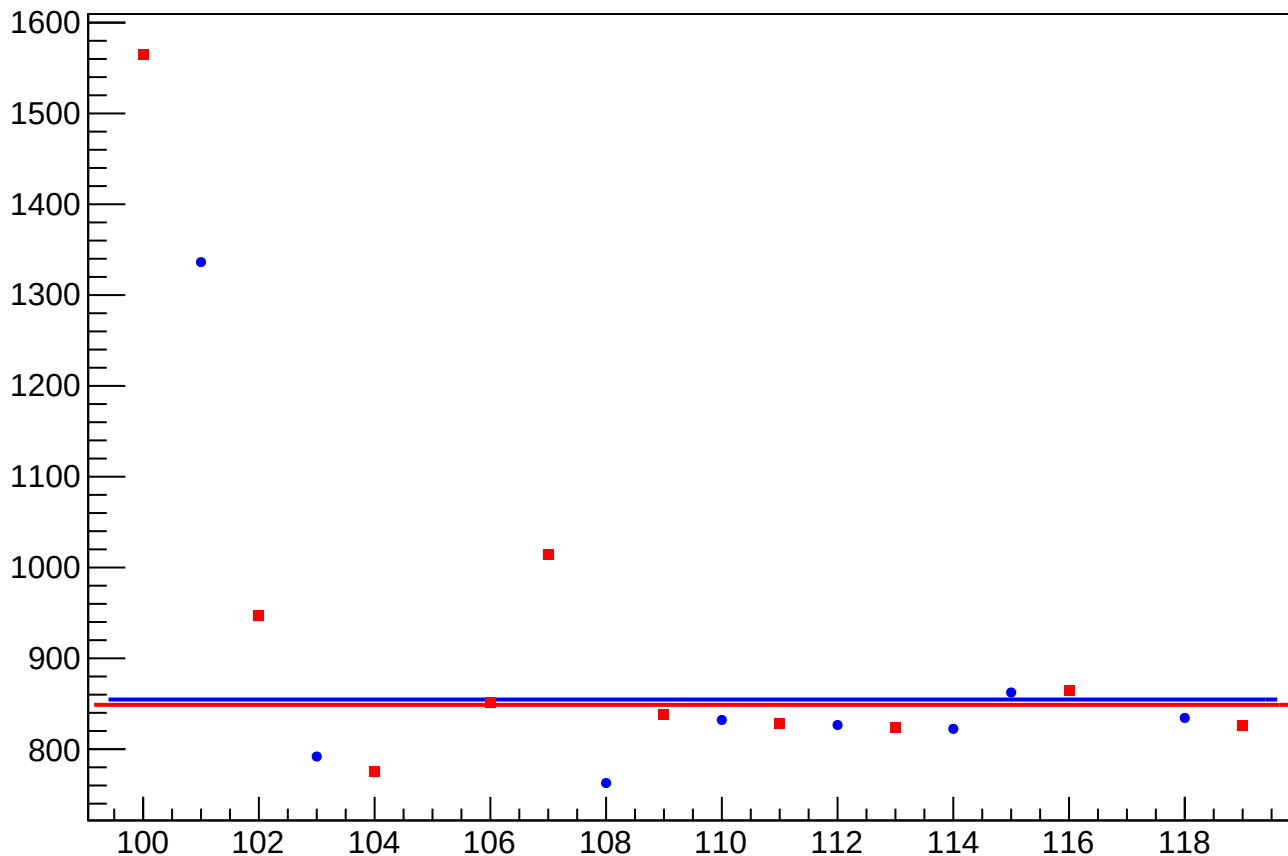
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 203.347+/-320.600  $\chi^2$ /NDF: 21.4/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 854.682 $\pm$ 0.338  $\chi^2$ /NDF: 187826.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 848.797 $\pm$ 0.305  $\chi^2$ /NDF: 65829.4/9

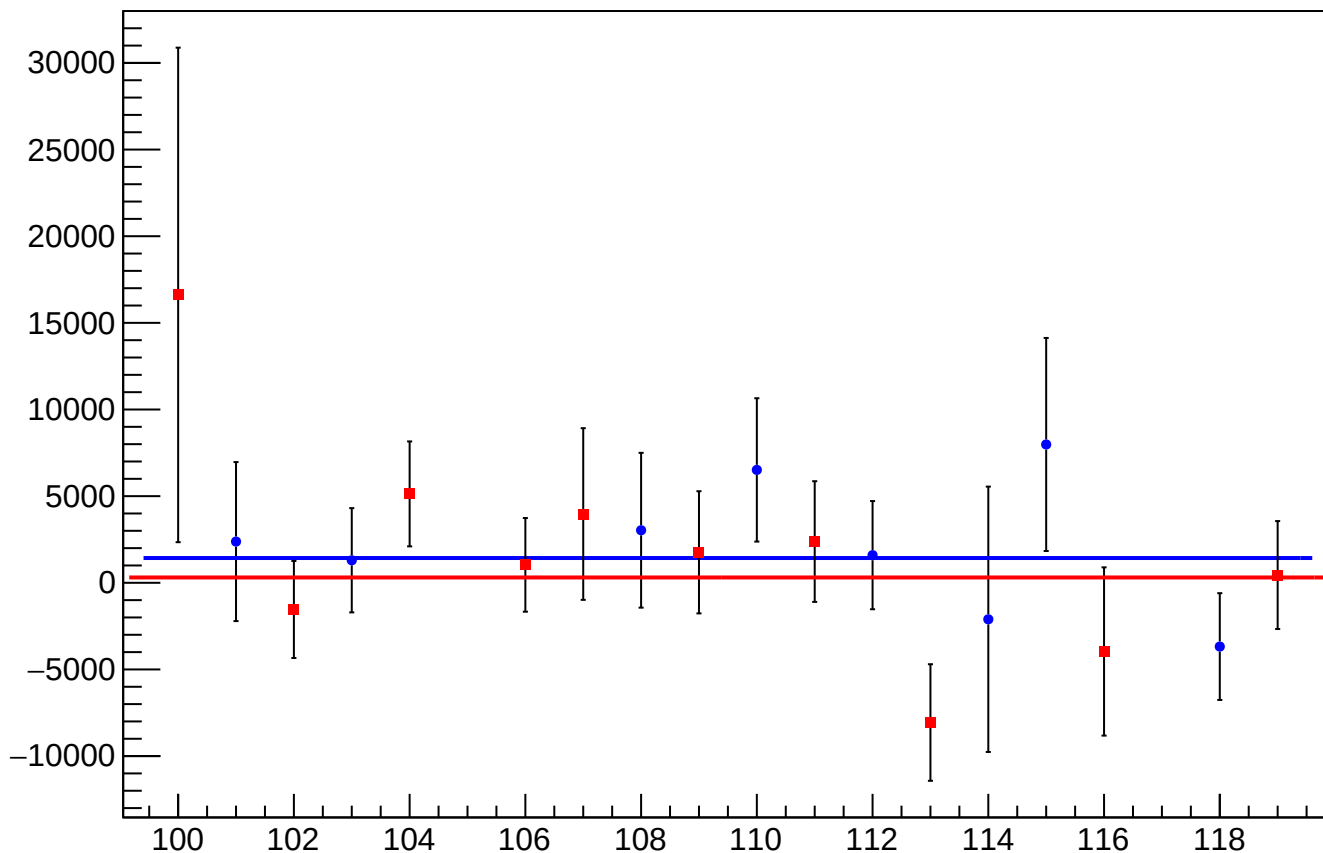
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 851.436 $\pm$ 0.226  $\chi^2$ /NDF: 253823.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 1429.830 $\pm$ 1389.261  $\chi^2$ /NDF: 5.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 307.590 $\pm$ 1106.771  $\chi^2$ /NDF: 12.4/9

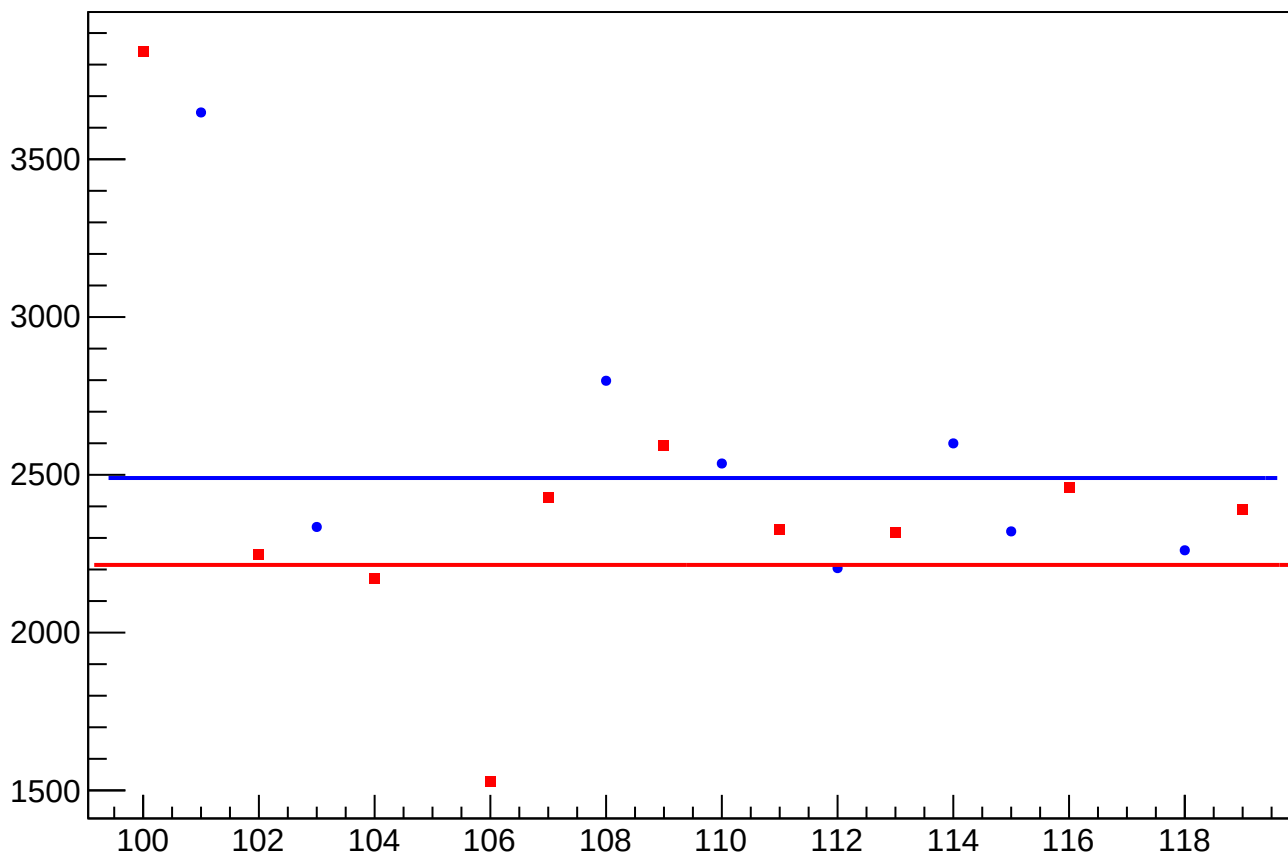
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 743.306 $\pm$ 865.651  $\chi^2$ /NDF: 18.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 2489.881+/-0.982  $\chi^2/\text{NDF}$ : 172297.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2214.479+/-0.783  $\chi^2/\text{NDF}$ : 197593.9/9

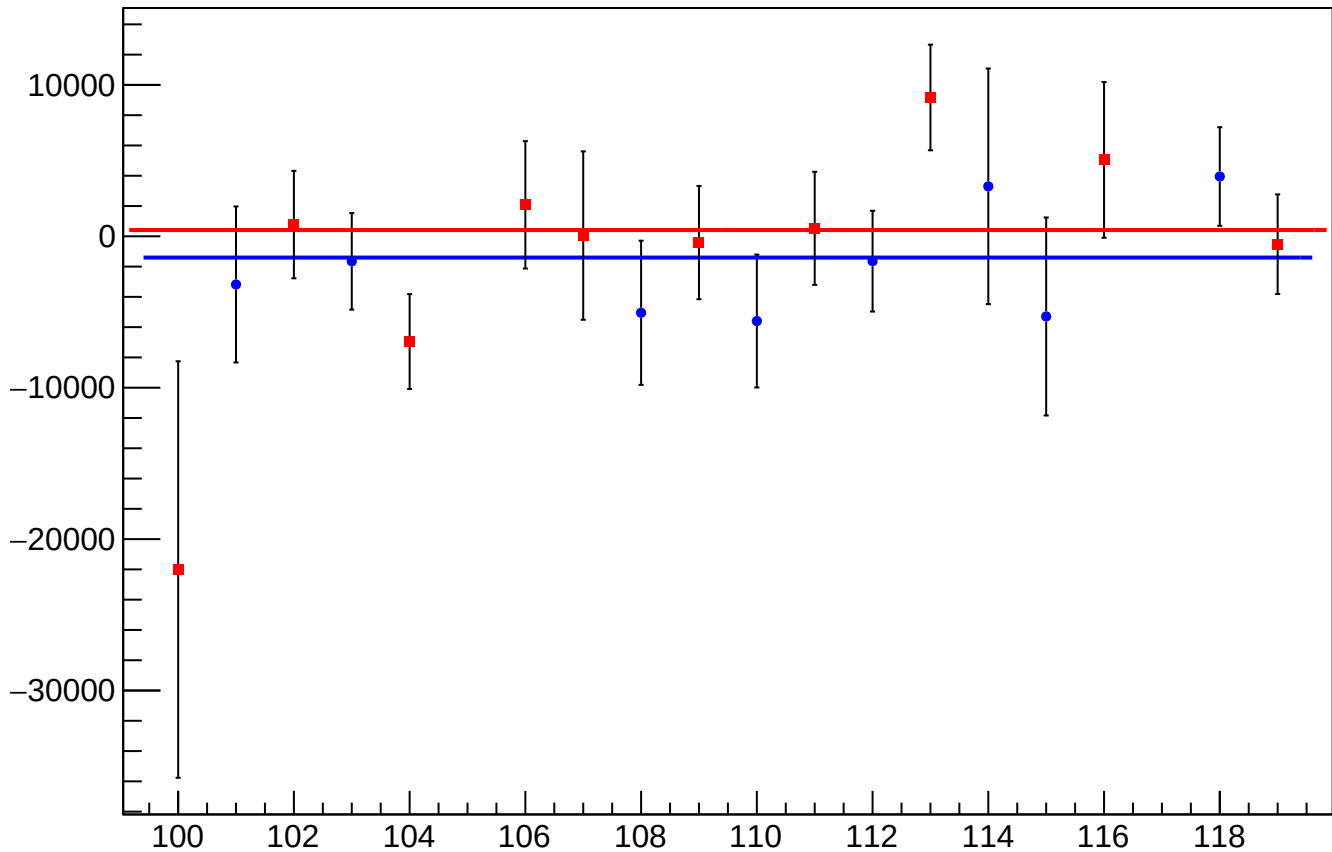
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2321.405+/-0.612  $\chi^2/\text{NDF}$ : 417972.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -1403.088+/-1479.867  $\chi^2/\text{NDF}$ : 5.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 414.255+/-1259.041  $\chi^2/\text{NDF}$ : 15.6/9

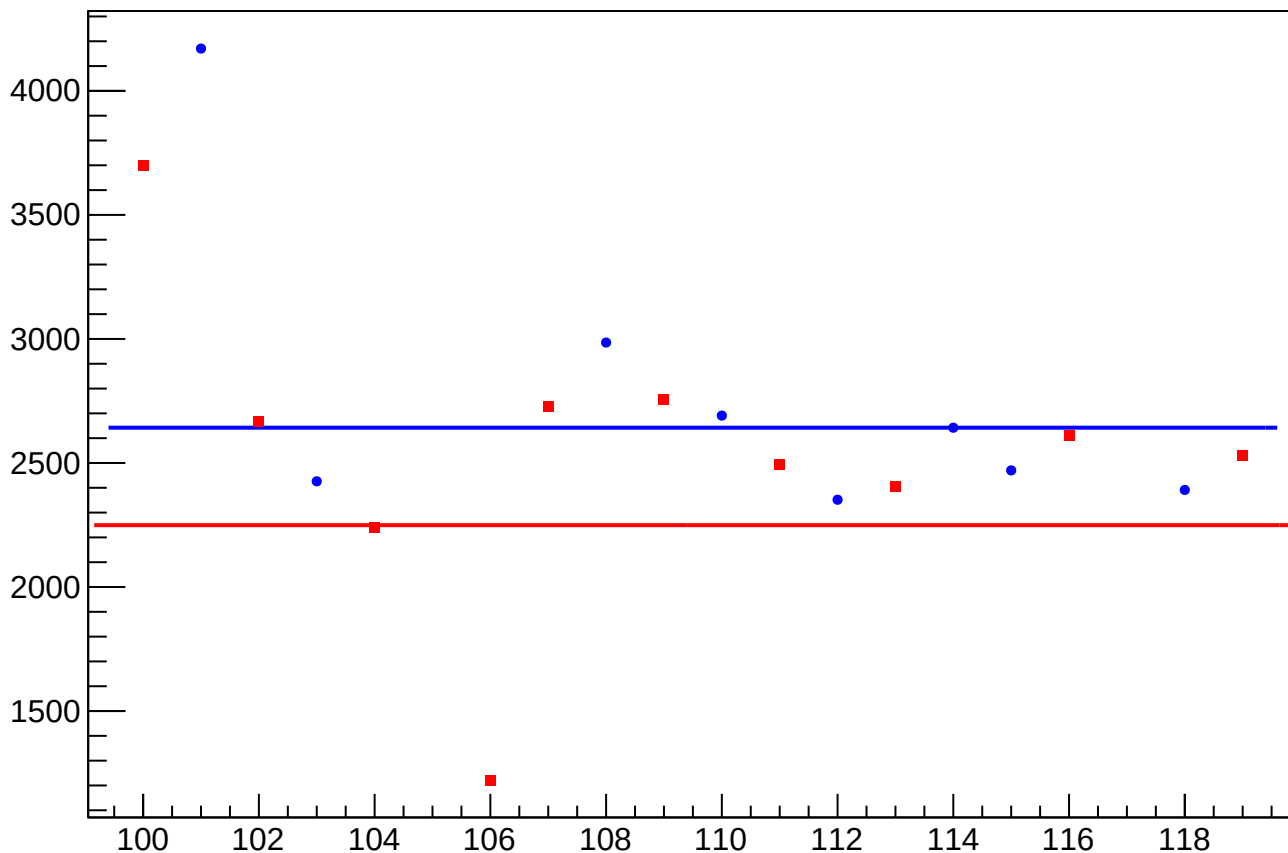
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -348.838+/-958.944  $\chi^2/\text{NDF}$ : 21.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 2642.268 $\pm$ 1.046  $\chi^2$ /NDF: 224205.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2249.333 $\pm$ 0.827  $\chi^2$ /NDF: 471027.2/9

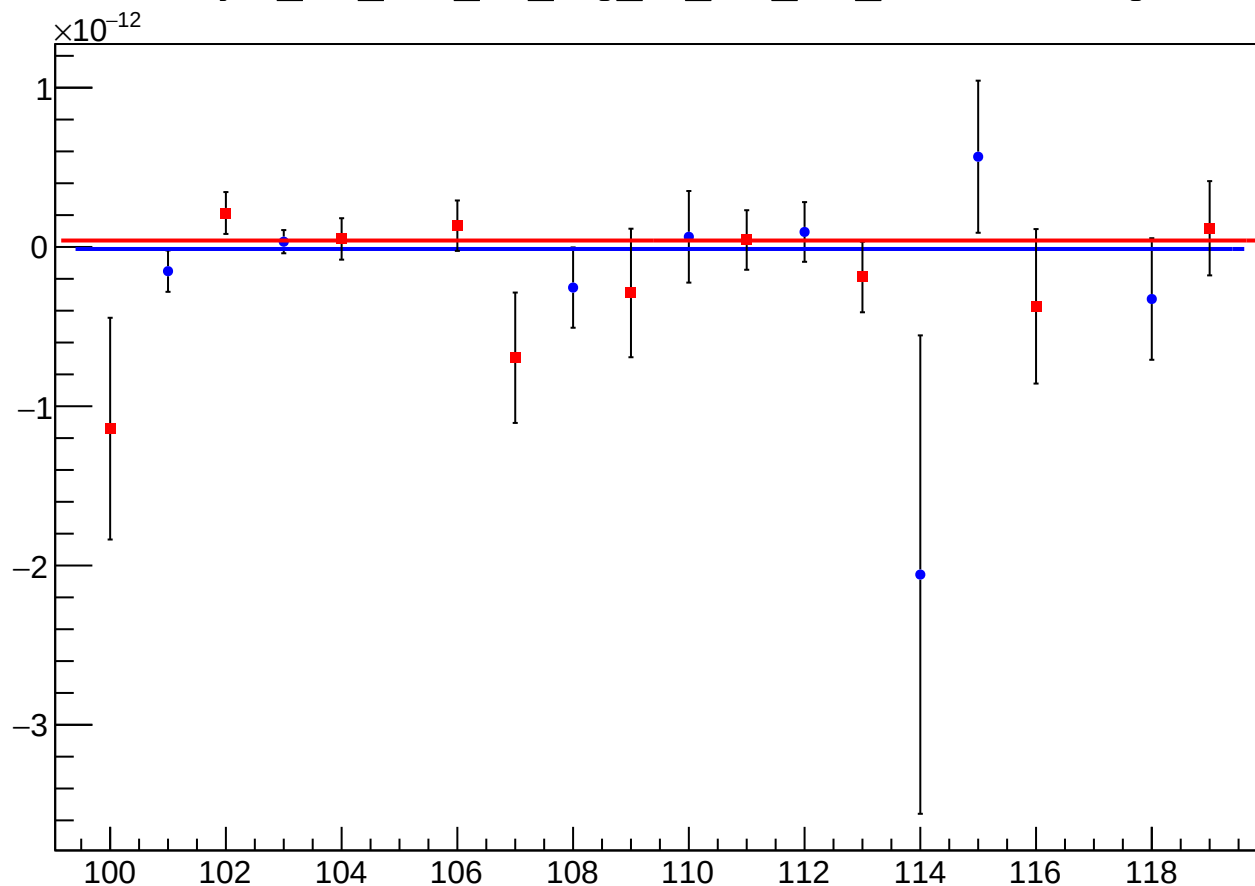
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2400.373 $\pm$ 0.649  $\chi^2$ /NDF: 782035.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 6.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 10.7/9

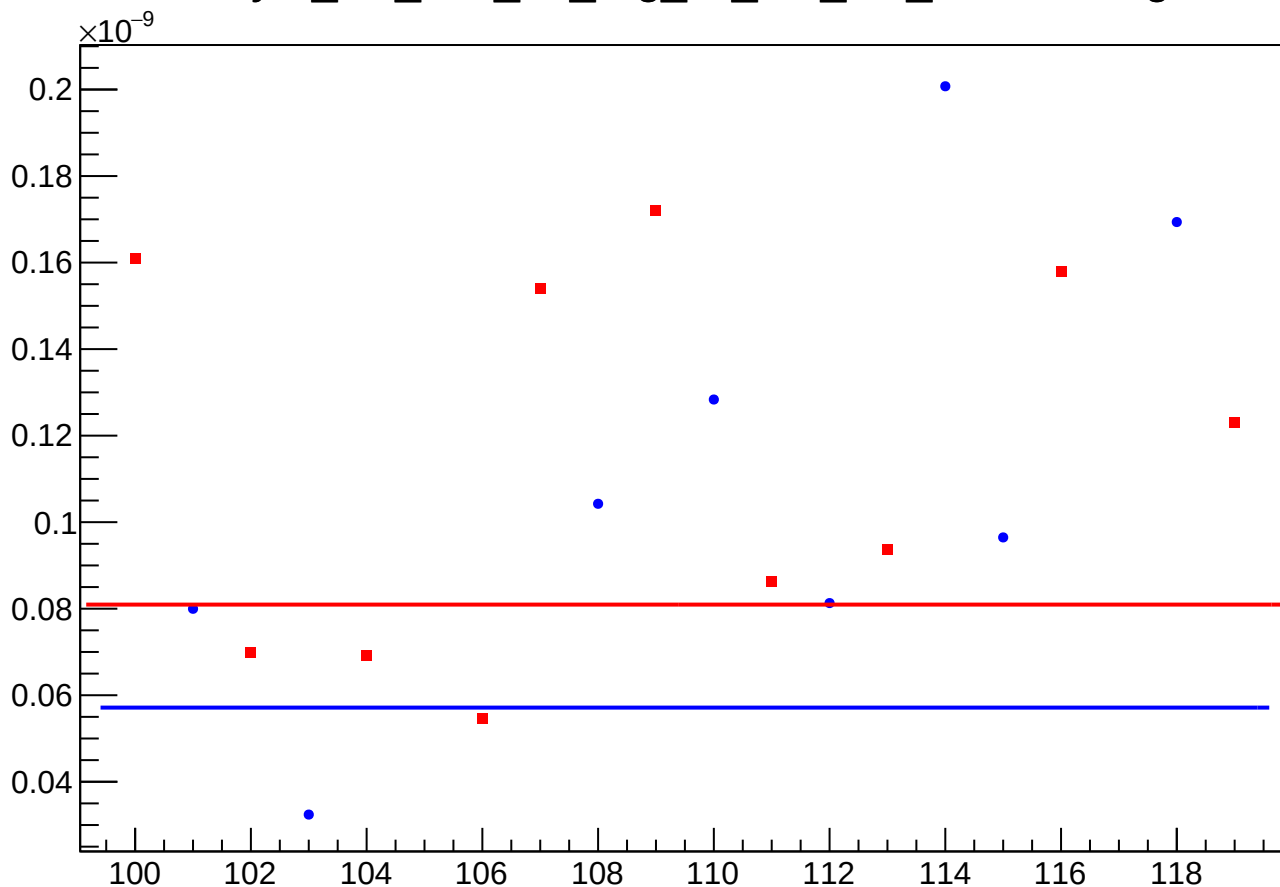
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 18.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 722514.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 377315.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

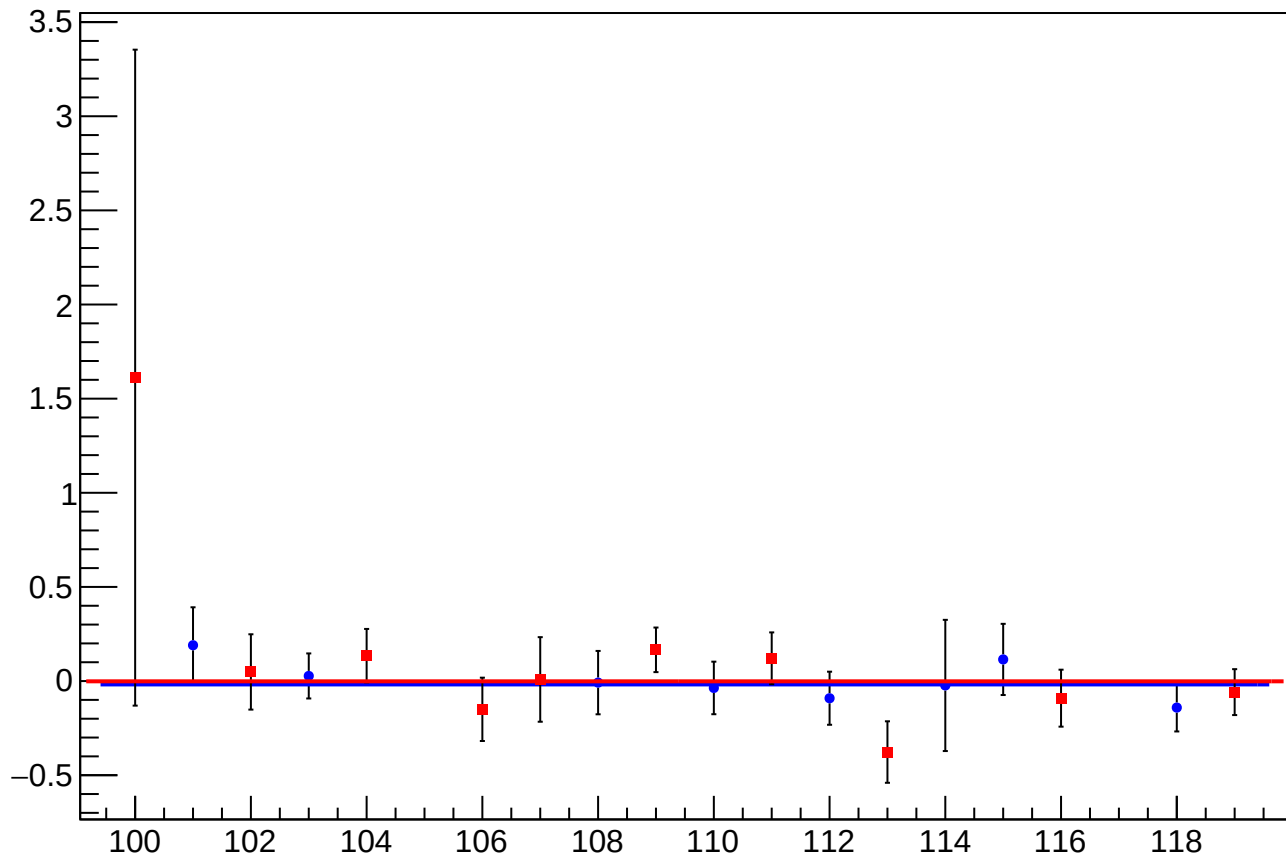
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1252765.5/17

- 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:  $-0.018 \pm 0.055$   $\chi^2/\text{NDF}$ : 2.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.001 \pm 0.050$   $\chi^2/\text{NDF}$ : 11.3/9

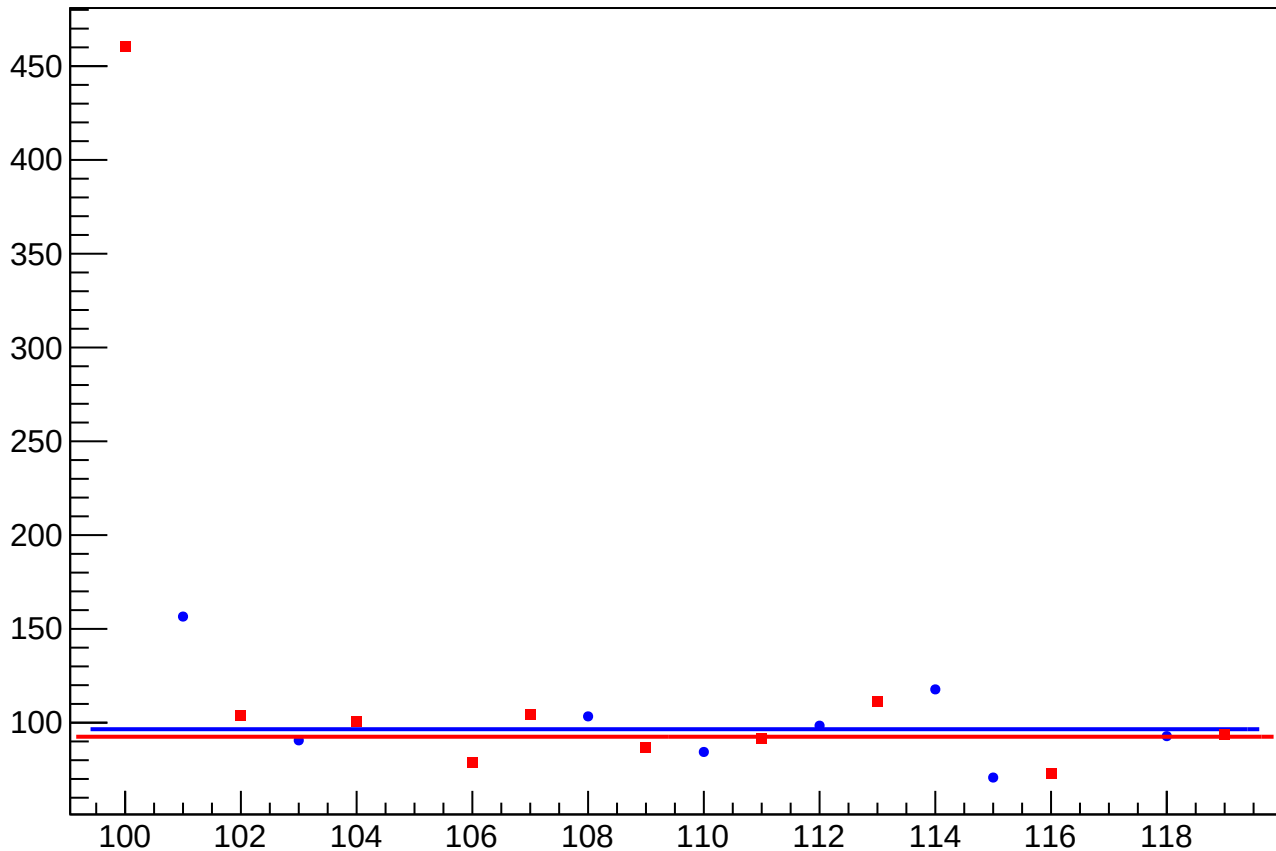
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.009 \pm 0.037$   $\chi^2/\text{NDF}$ : 14.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 96.525+/-0.039  $\chi^2/\text{NDF}$ : 247496.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 92.512+/-0.035  $\chi^2/\text{NDF}$ : 184744.7/9

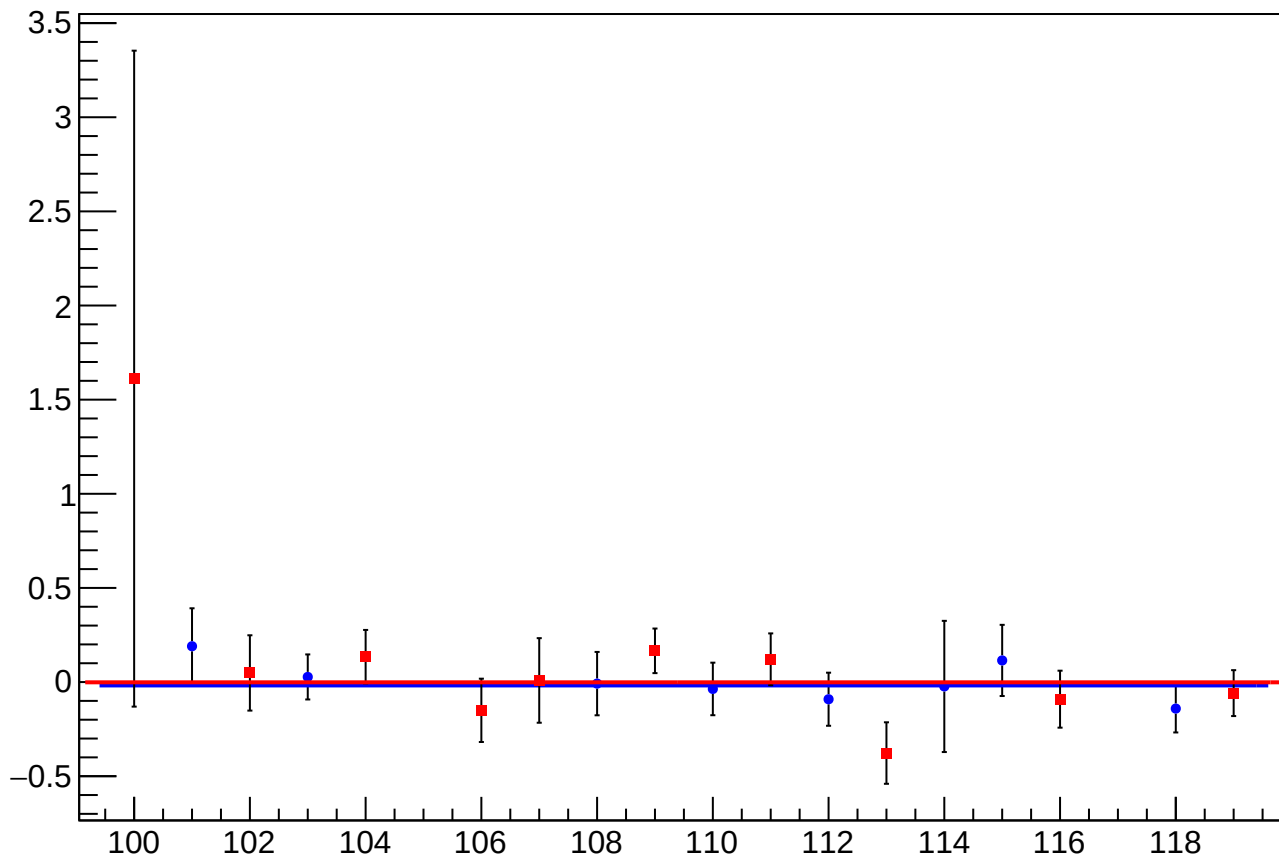
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.319+/-0.026  $\chi^2/\text{NDF}$ : 438080.5/17

- 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: -0.018+/-0.055  $\chi^2/\text{NDF}$ : 2.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.001+/-0.050  $\chi^2/\text{NDF}$ : 11.3/9

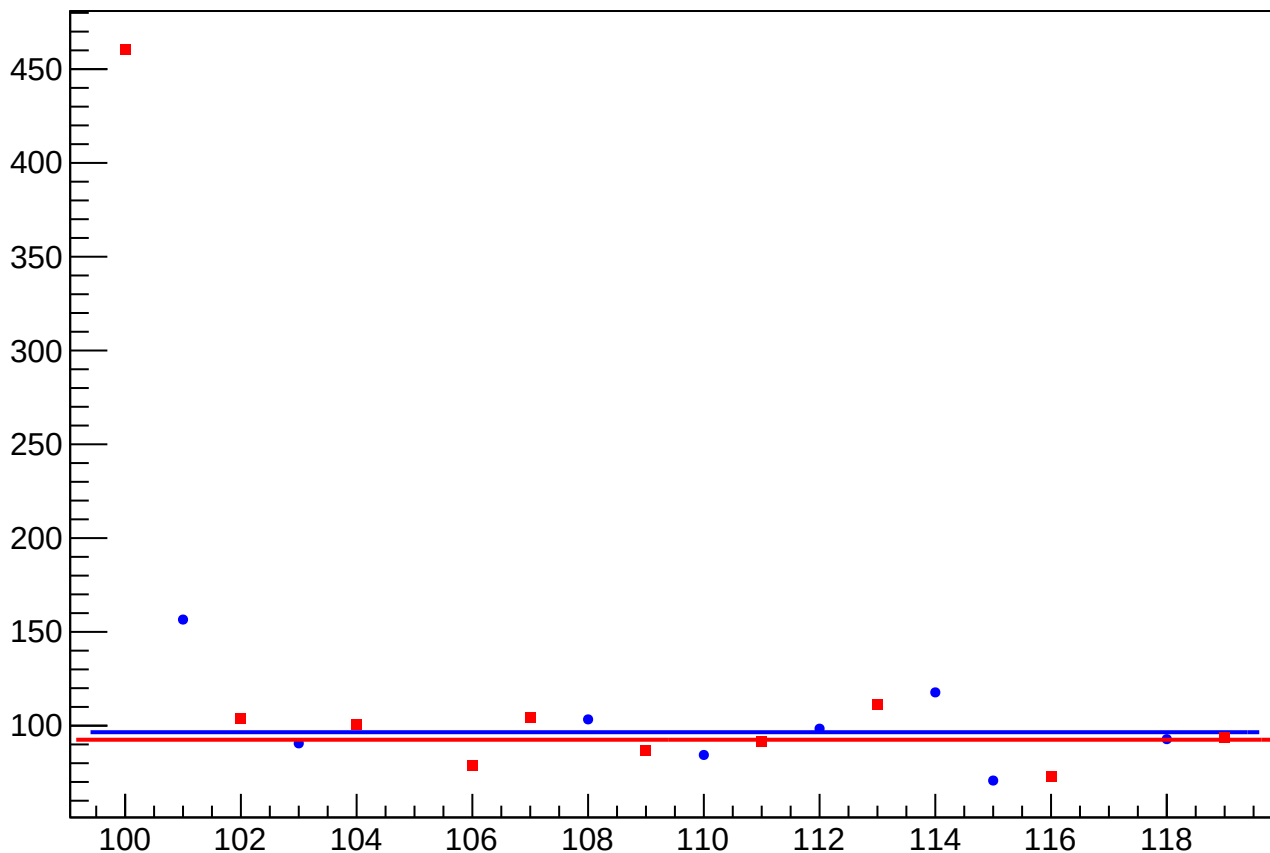
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.009+/-0.037  $\chi^2/\text{NDF}$ : 14.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 96.525+/-0.039  $\chi^2/\text{NDF}$ : 247496.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 92.512+/-0.035  $\chi^2/\text{NDF}$ : 184744.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

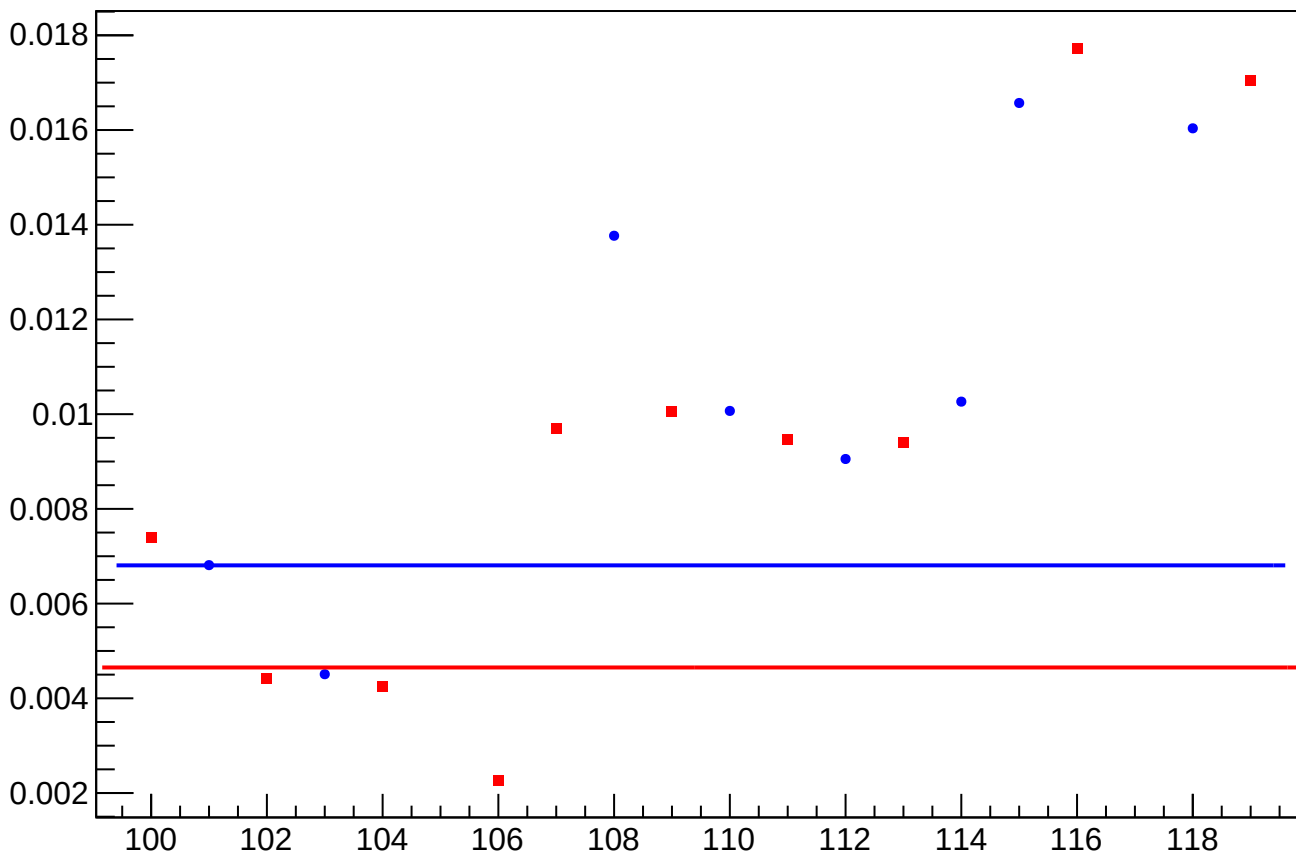
All: 94.319+/-0.026  $\chi^2/\text{NDF}$ : 438080.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Figure 1 is a plot showing the ratio of the cross section to the Born cross section,  $\sigma/\sigma_B$ , as a function of the center-of-mass energy,  $\sqrt{s}$ , in GeV. The x-axis ranges from 100 to 118 GeV. The y-axis is logarithmic, ranging from  $10^{-3}$  to  $10^3$ . Two data series are shown: red squares and blue circles, both with vertical error bars. A solid red line represents the fit to the red squares, and a solid blue line represents the fit to the blue circles. Both fits show a slight upward trend with energy.

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1136823.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2373136.1/9

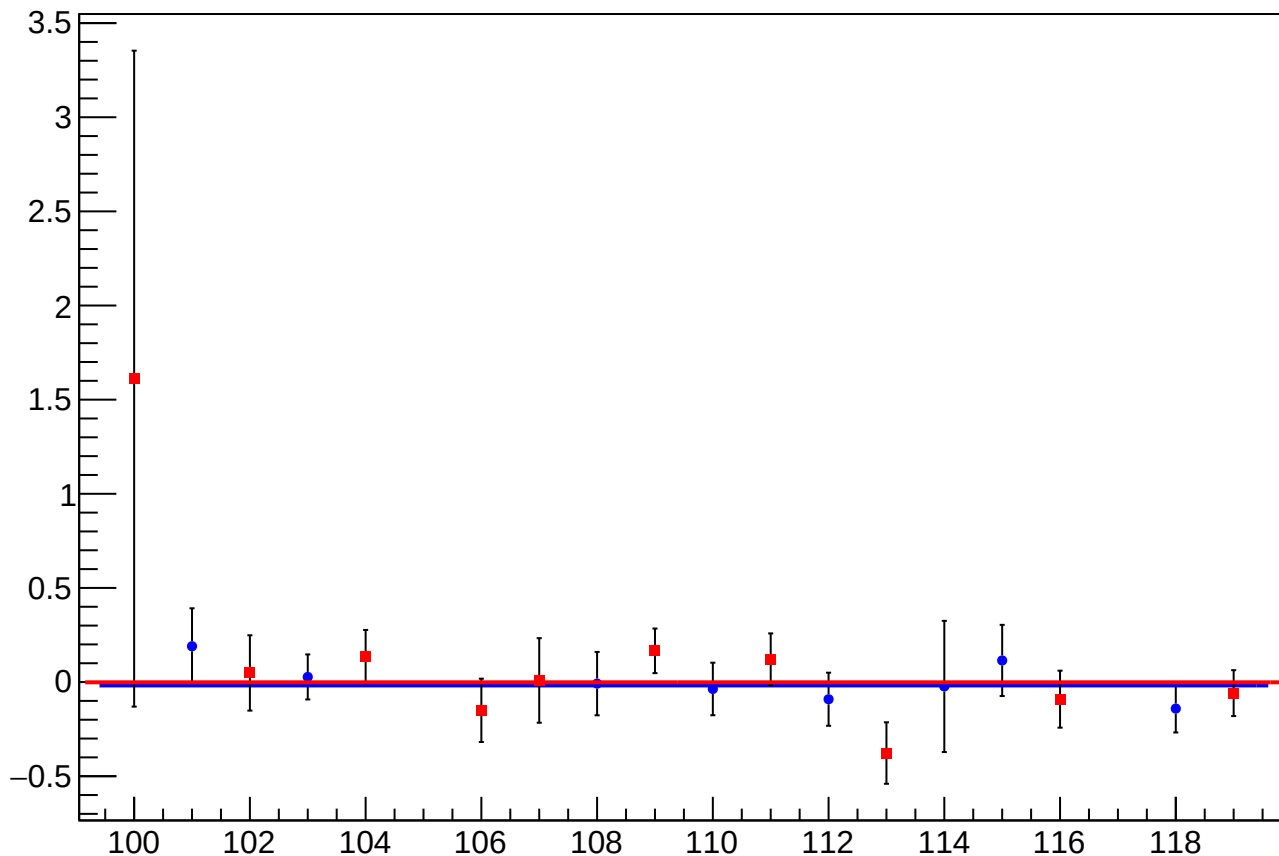
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 3888278.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.018 $\pm$ 0.055  $\chi^2$ /NDF: 2.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.001 $\pm$ 0.050  $\chi^2$ /NDF: 11.3/9

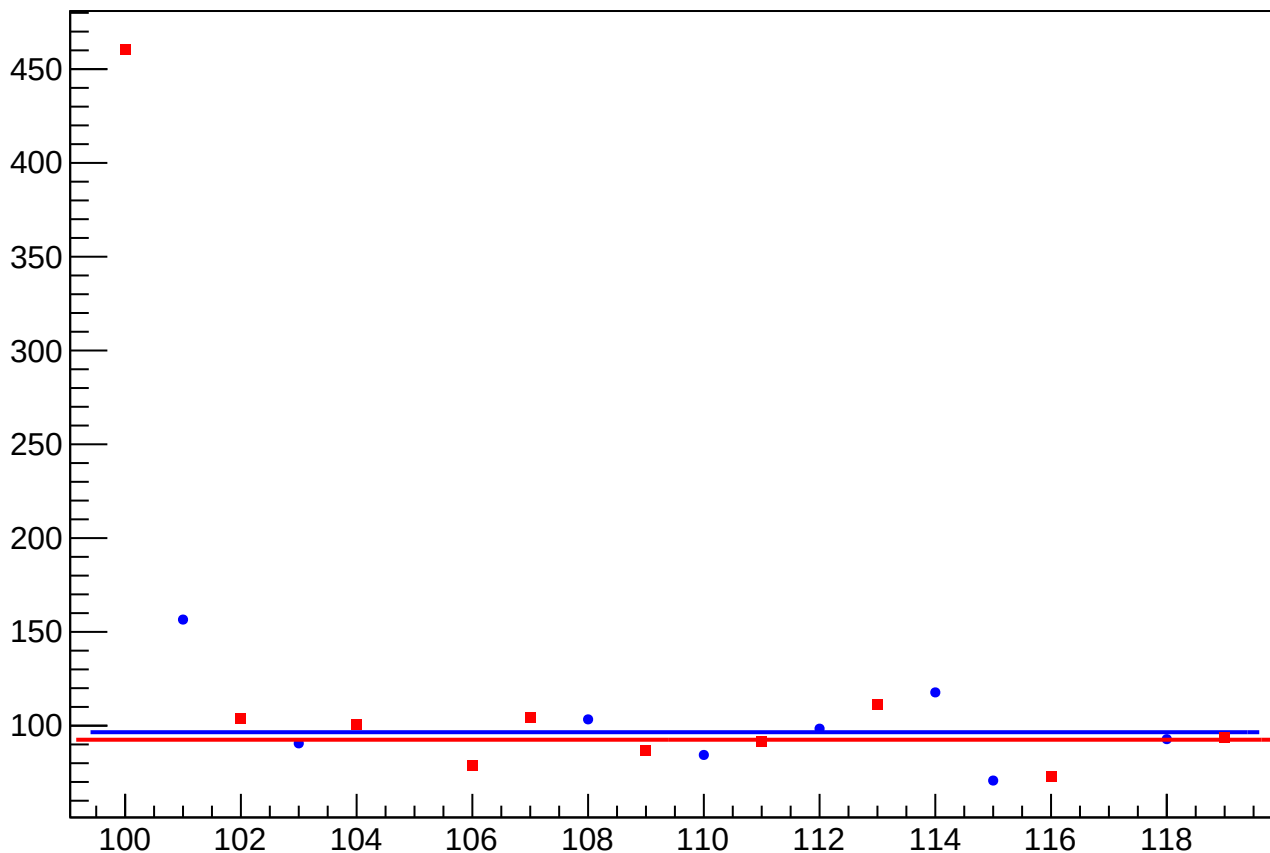
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.009 $\pm$ 0.037  $\chi^2$ /NDF: 14.3/17

- 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: 96.527+/-0.039  $\chi^2/\text{NDF}$ : 247471.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 92.514+/-0.035  $\chi^2/\text{NDF}$ : 184698.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

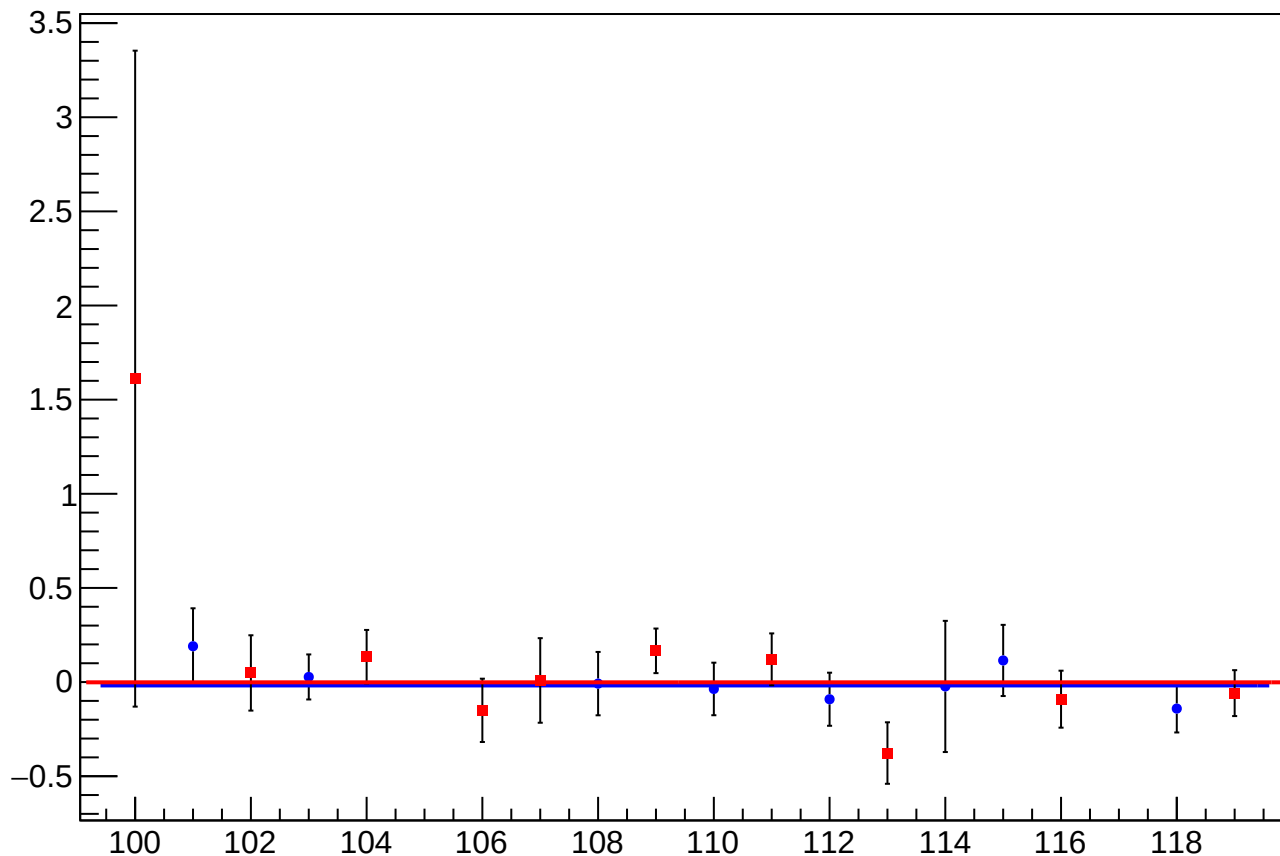
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.321+/-0.026  $\chi^2/\text{NDF}$ : 438008.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.018+/-0.055  $\chi^2/\text{NDF}$ : 2.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.001+/-0.050  $\chi^2/\text{NDF}$ : 11.3/9

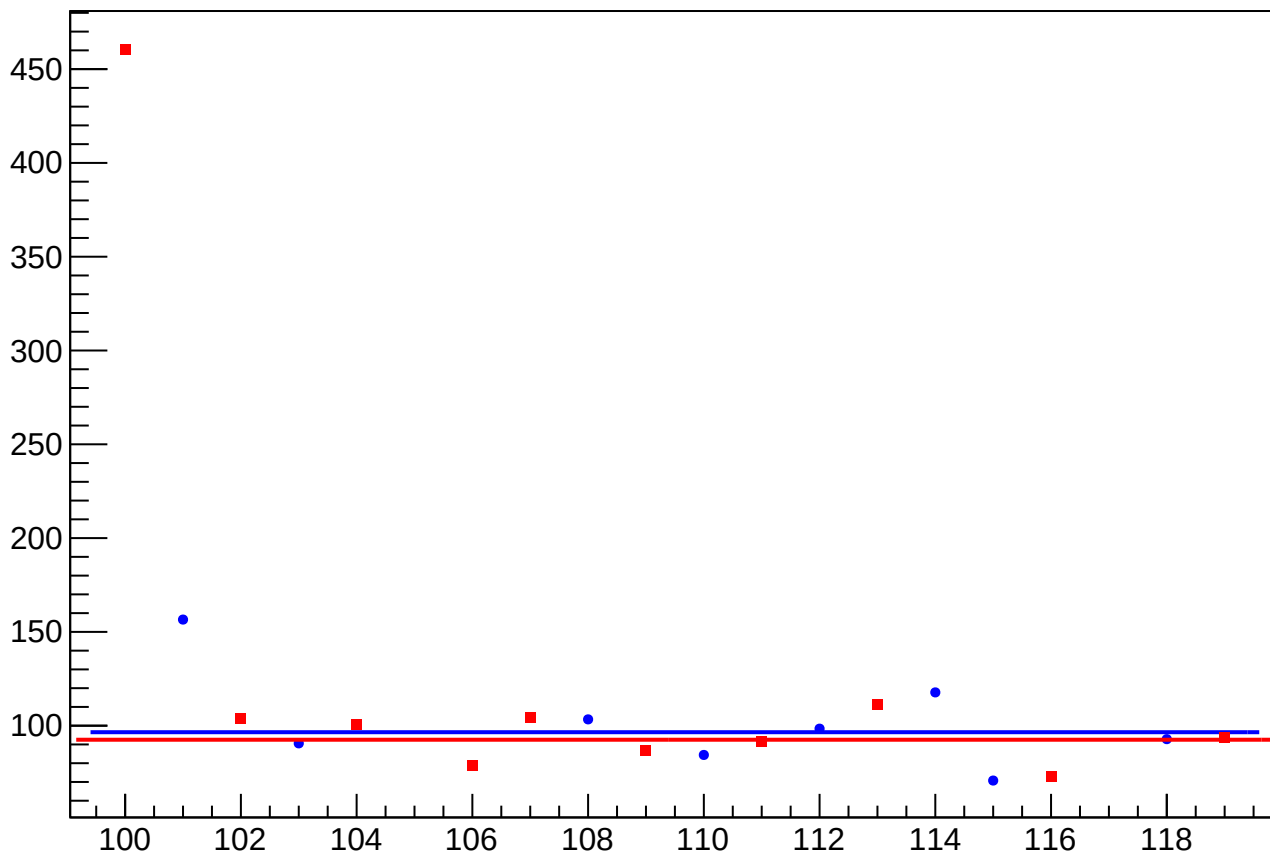
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.009+/-0.037  $\chi^2/\text{NDF}$ : 14.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 96.527 $\pm$ 0.039  $\chi^2$ /NDF: 247471.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 92.514 $\pm$ 0.035  $\chi^2$ /NDF: 184698.9/9

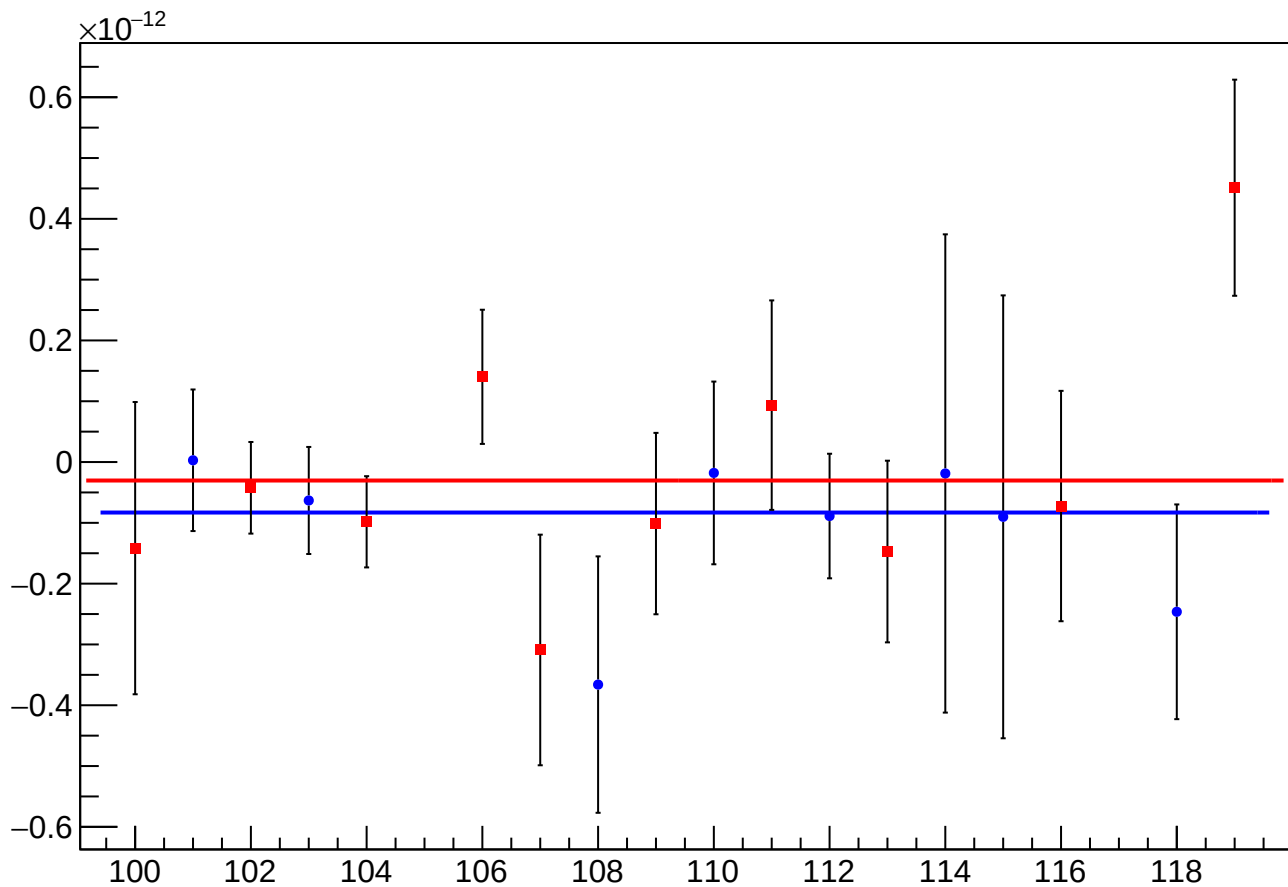
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 94.321 $\pm$ 0.026  $\chi^2$ /NDF: 438008.6/17

- 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  $\chi^2/\text{NDF}$ : 3.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.4/9

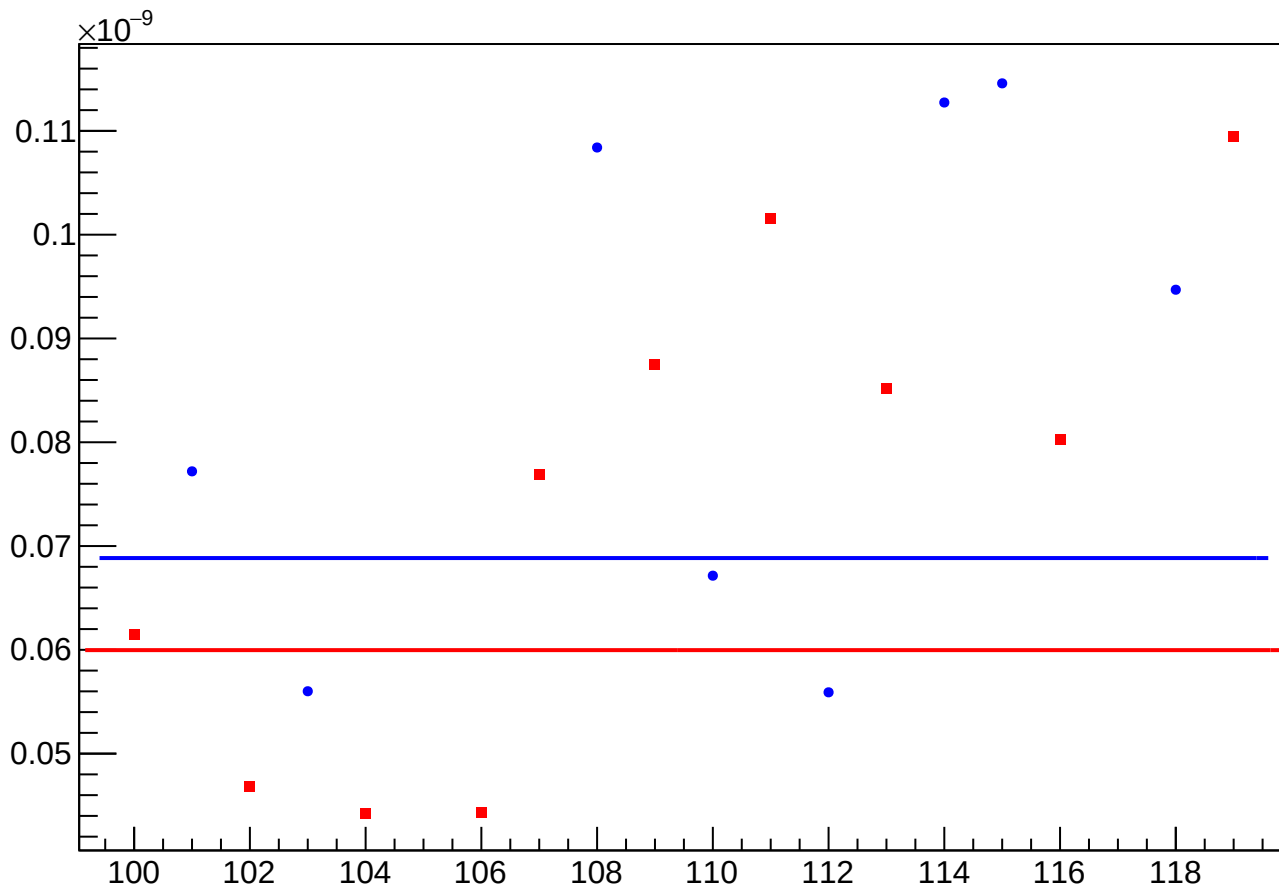
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.5/17

- 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  $\chi^2/\text{NDF}$ : 254644.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 623862.3/9

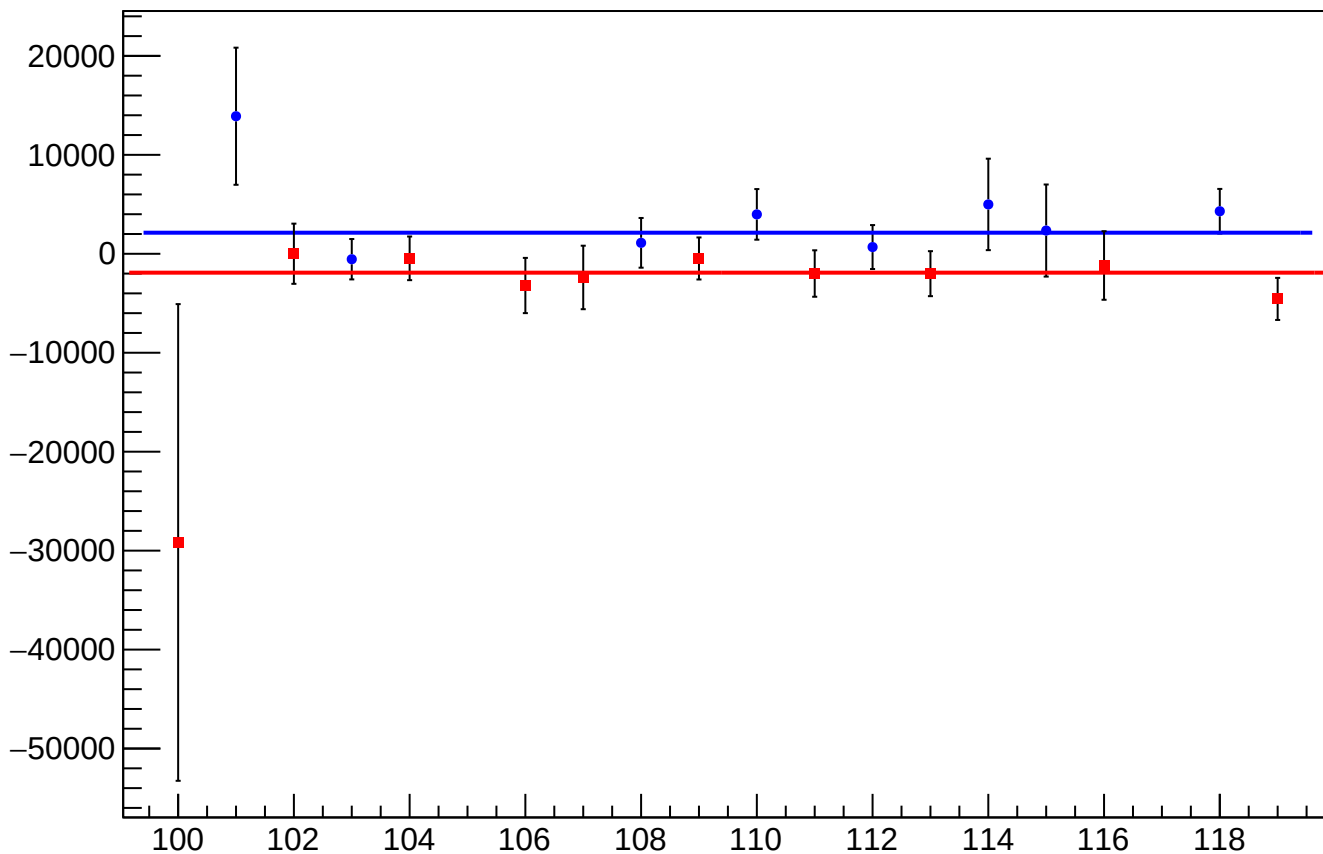
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 918463.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 2131.266+/-969.090  $\chi^2/\text{NDF}$ : 7.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1907.108+/-832.720  $\chi^2/\text{NDF}$ : 4.4/9

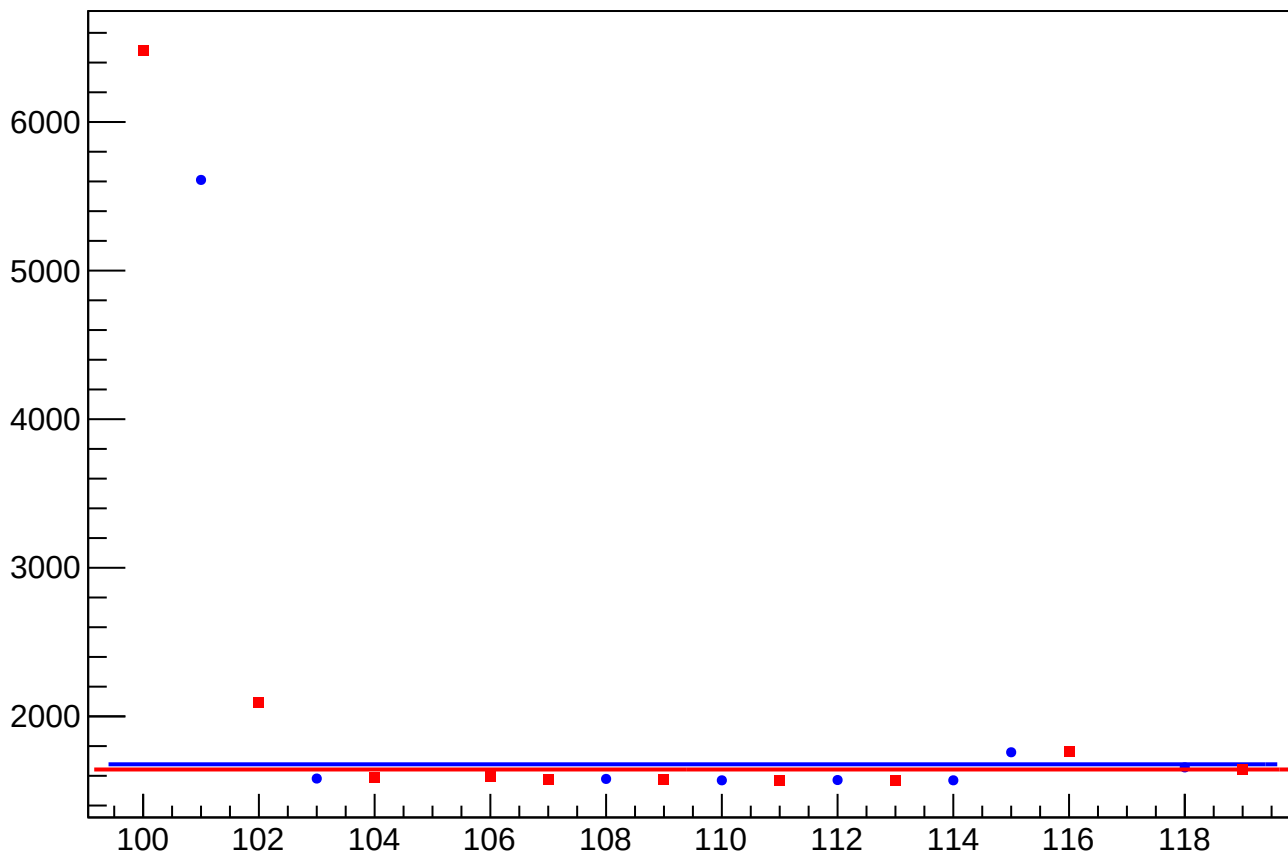
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -191.825+/-631.580  $\chi^2/\text{NDF}$ : 21.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1677.468+/-0.685  $\chi^2/\text{NDF}$ : 661784.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1642.549+/-0.589  $\chi^2/\text{NDF}$ : 136337.0/9

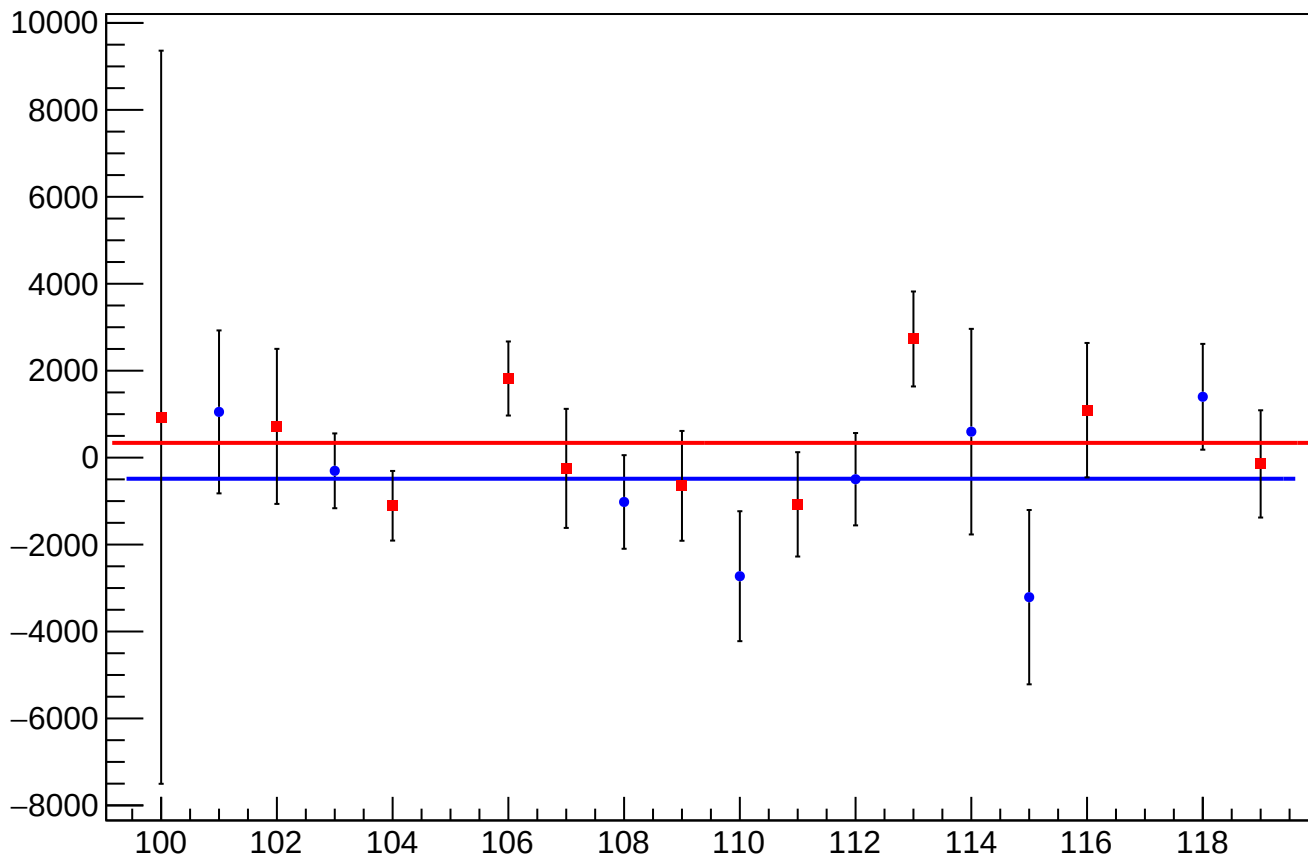
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1657.381+/-0.447  $\chi^2/\text{NDF}$ : 799615.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_reg\_correction\_mean vs Slug



Right In: -485.787+/-450.194  $\chi^2/\text{NDF}$ : 7.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 339.390+/-377.109  $\chi^2/\text{NDF}$ : 13.7/9

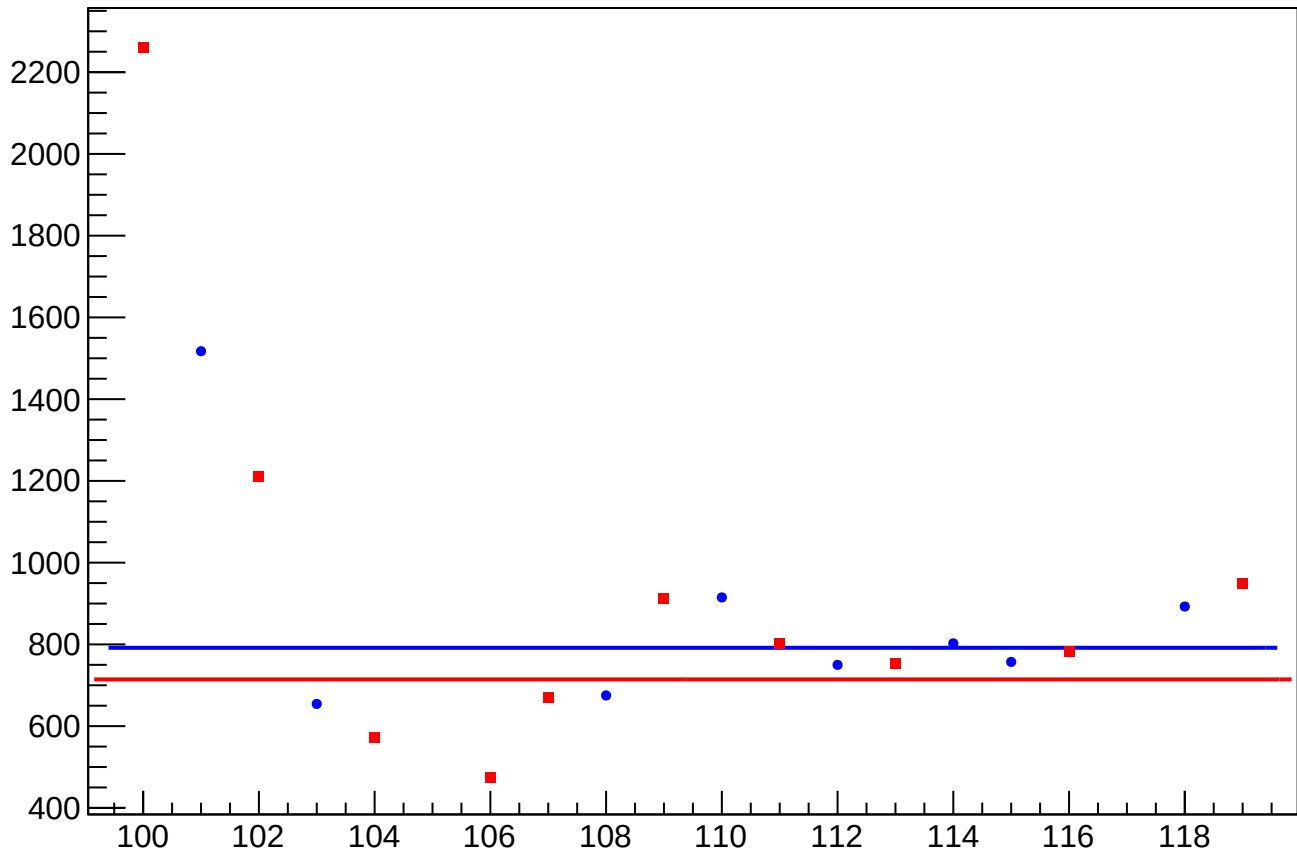
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.867+/-289.087  $\chi^2/\text{NDF}$ : 23.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_avg\_reg\_correction\_rms vs Slug



Right In: 791.747+/-0.318  $\chi^2/\text{NDF}$ : 405153.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 714.360+/-0.267  $\chi^2/\text{NDF}$ : 584178.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

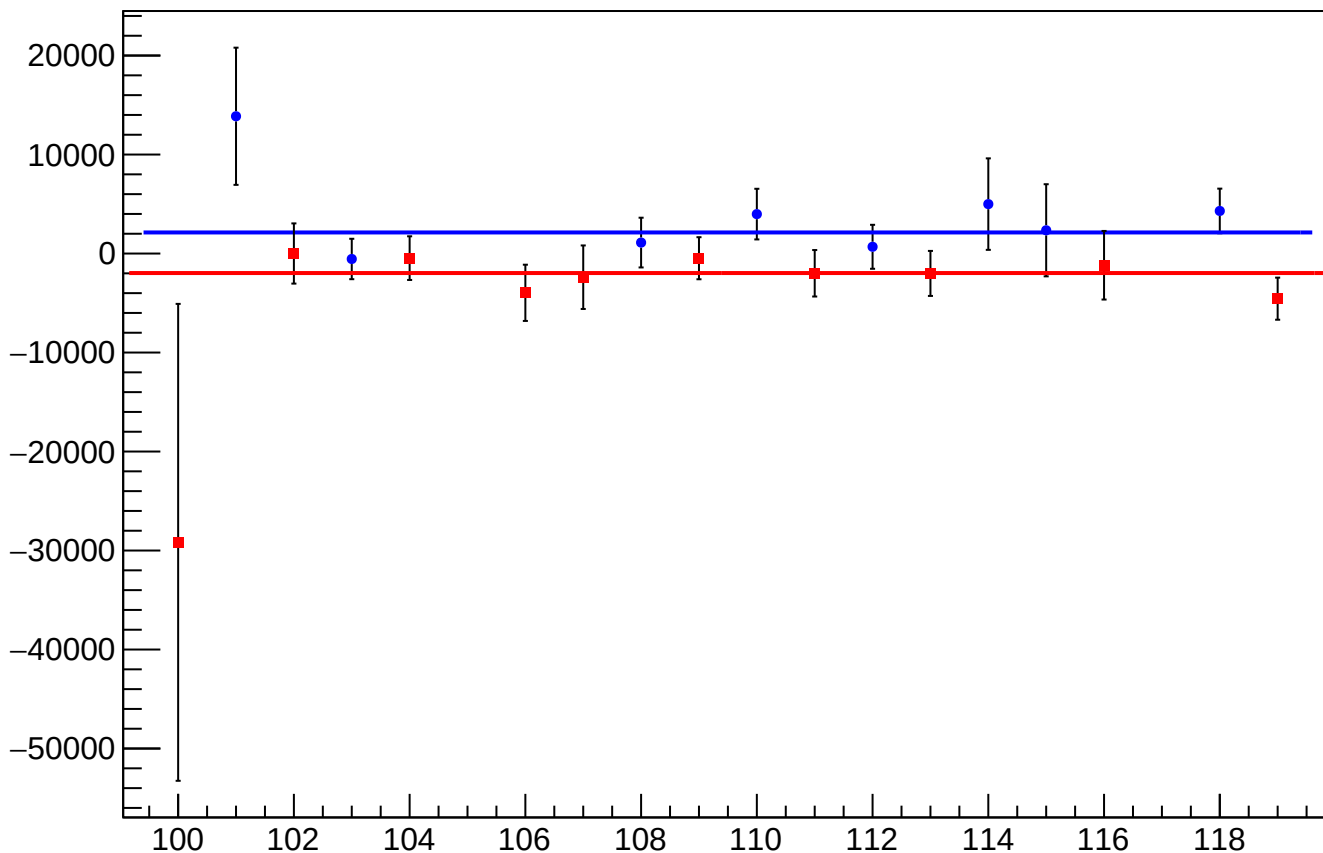
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 746.270+/-0.204  $\chi^2/\text{NDF}$ : 1024060.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 2130.151 $\pm$ 969.090  $\chi^2$ /NDF: 7.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1969.610 $\pm$ 833.998  $\chi^2$ /NDF: 4.7/9

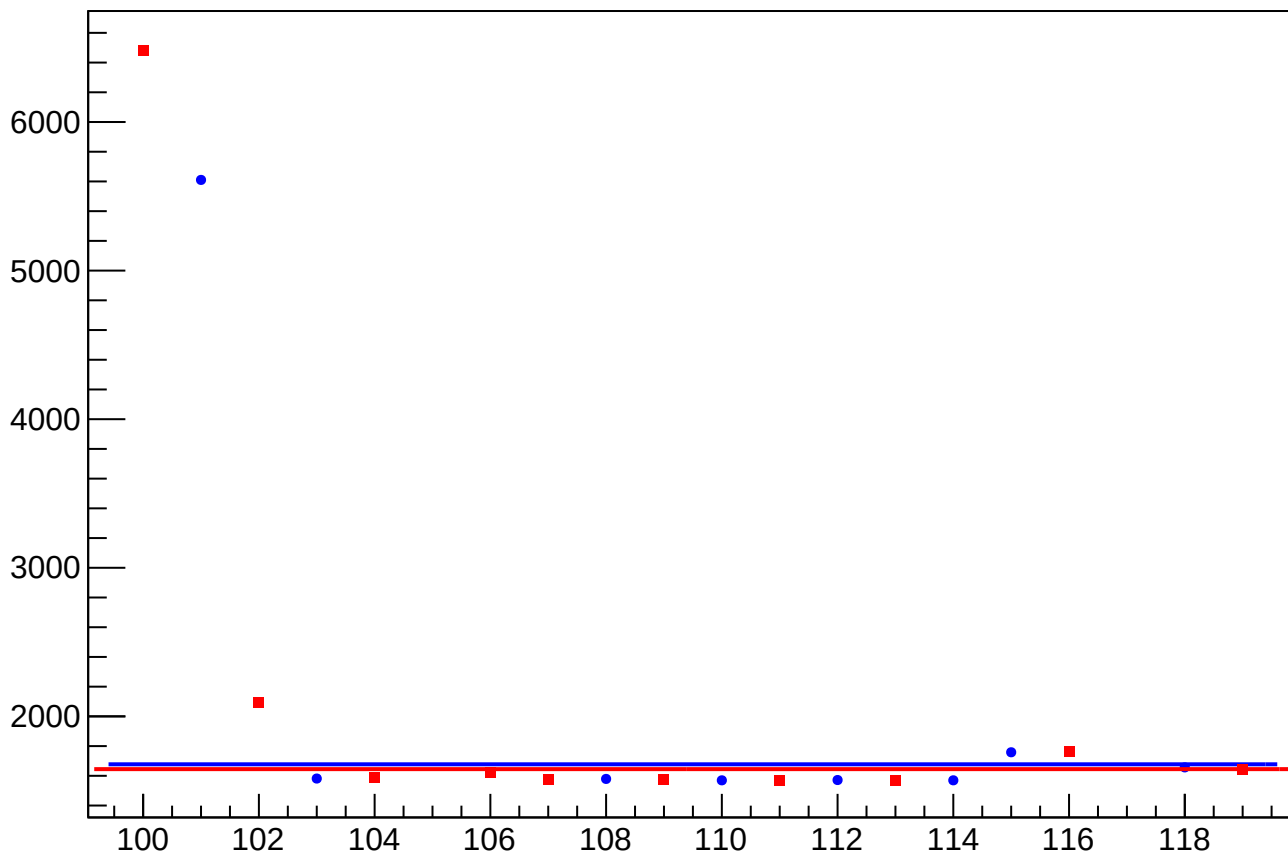
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -225.180 $\pm$ 632.138  $\chi^2$ /NDF: 22.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1677.468+/-0.685  $\chi^2/\text{NDF}$ : 661784.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1644.984+/-0.590  $\chi^2/\text{NDF}$ : 135826.7/9

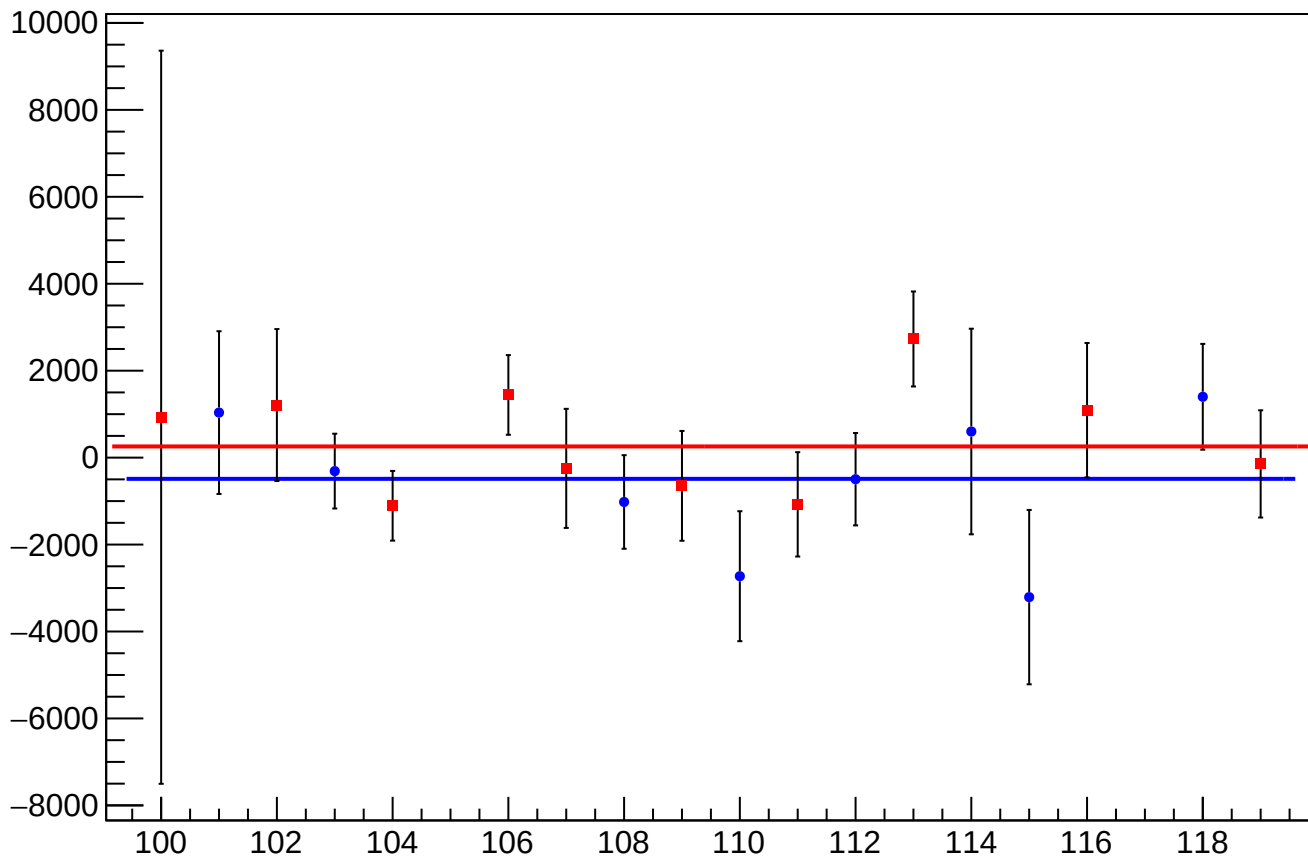
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1658.806+/-0.447  $\chi^2/\text{NDF}$ : 798901.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_cor\_correction\_mean vs Slug



Right In: -488.010+/-450.090  $\chi^2/\text{NDF}$ : 7.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 257.735+/-381.989  $\chi^2/\text{NDF}$ : 12.3/9

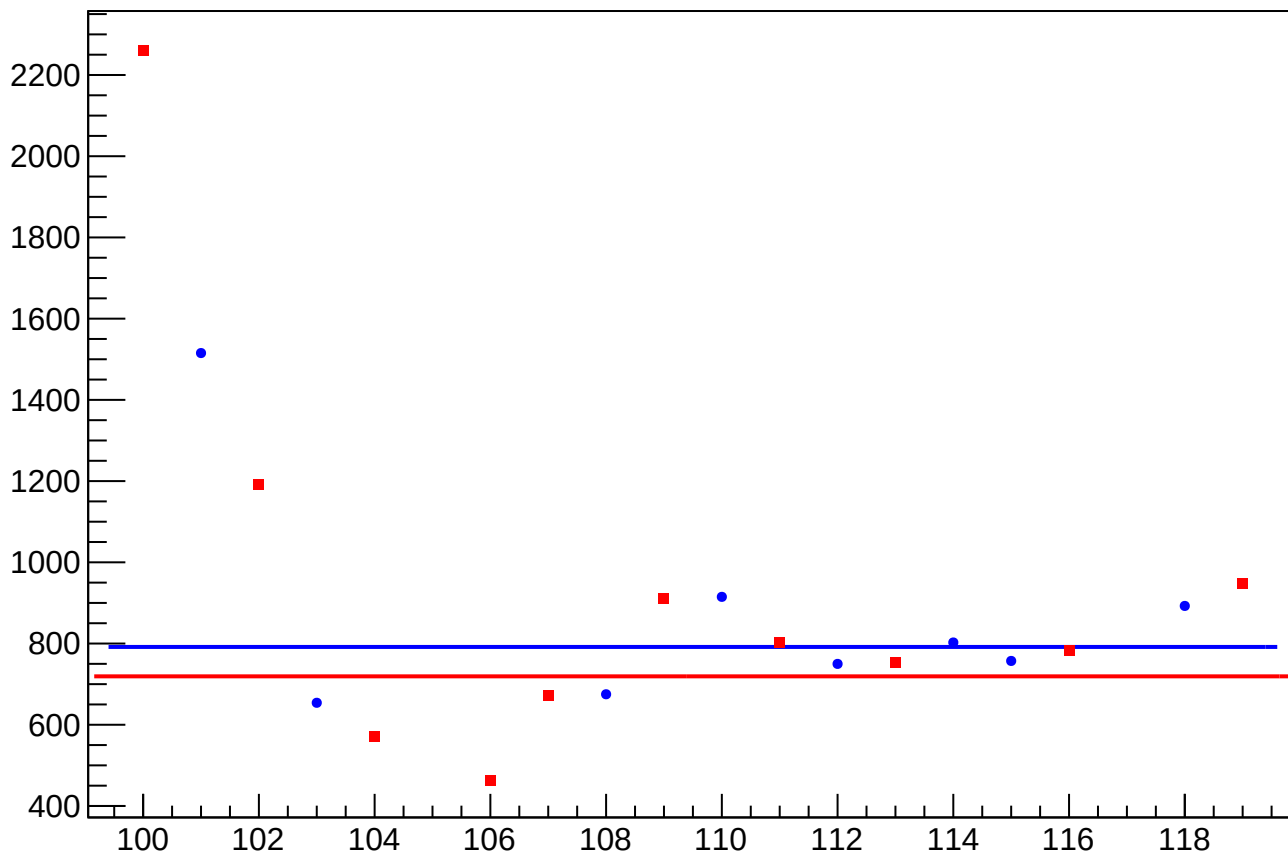
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -54.508+/-291.240  $\chi^2/\text{NDF}$ : 21.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_avg\_cor\_correction\_rms vs Slug



Right In: 791.619+/-0.318  $\chi^2/\text{NDF}$ : 404610.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 719.214+/-0.270  $\chi^2/\text{NDF}$ : 569259.1/9

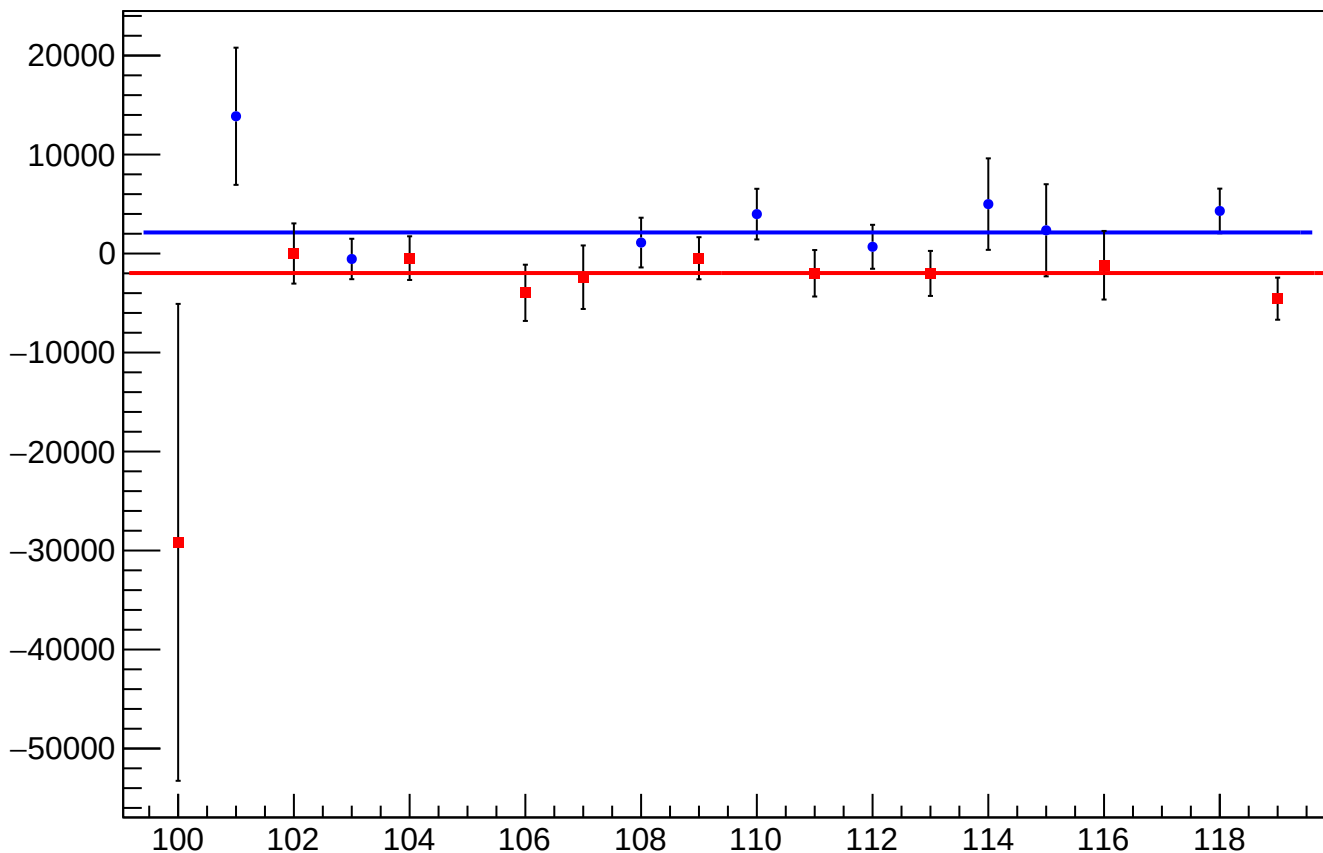
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 749.530+/-0.206  $\chi^2/\text{NDF}$ : 1003955.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 2130.151+/-969.090  $\chi^2/\text{NDF}$ : 7.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1969.610+/-833.998  $\chi^2/\text{NDF}$ : 4.7/9

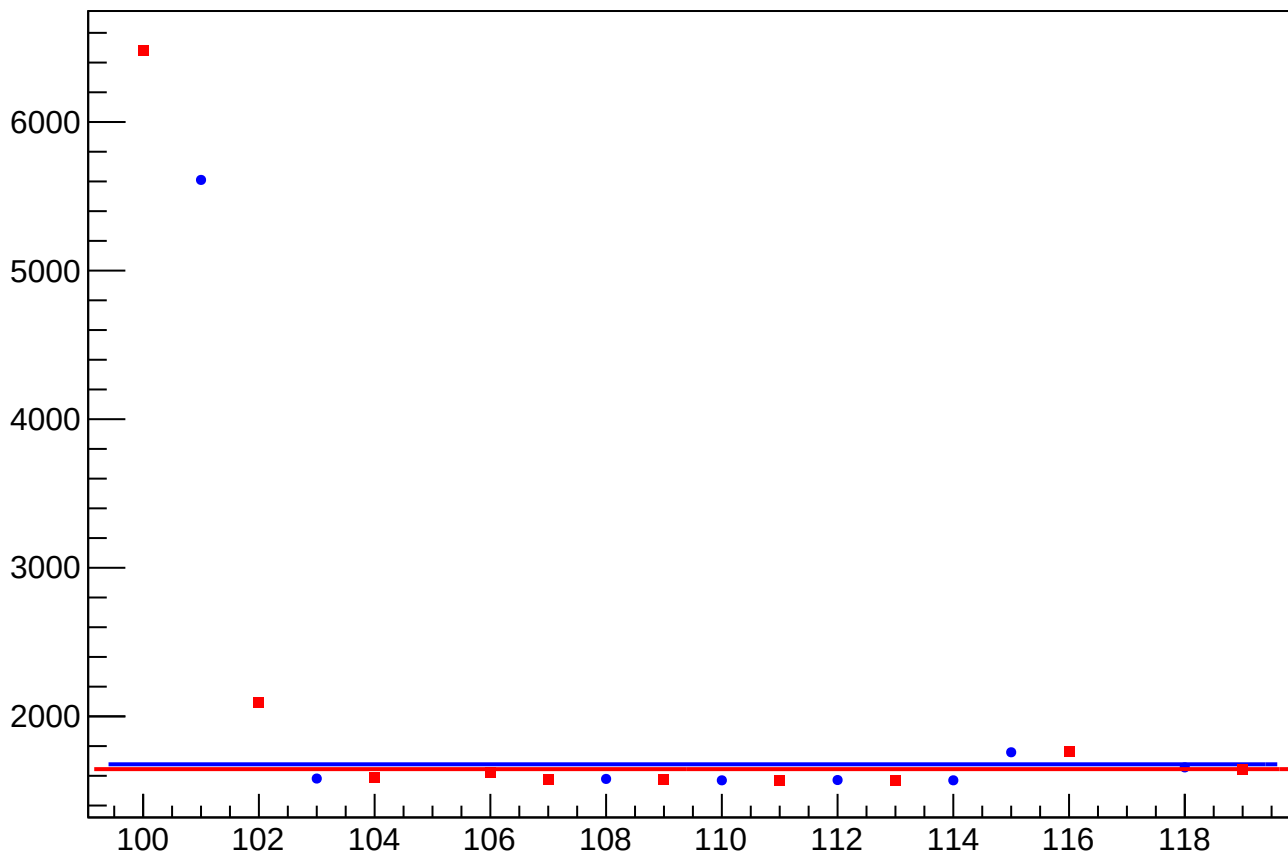
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -225.180+/-632.138  $\chi^2/\text{NDF}$ : 22.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1677.468+/-0.685  $\chi^2/\text{NDF}$ : 661784.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1644.984+/-0.590  $\chi^2/\text{NDF}$ : 135826.7/9

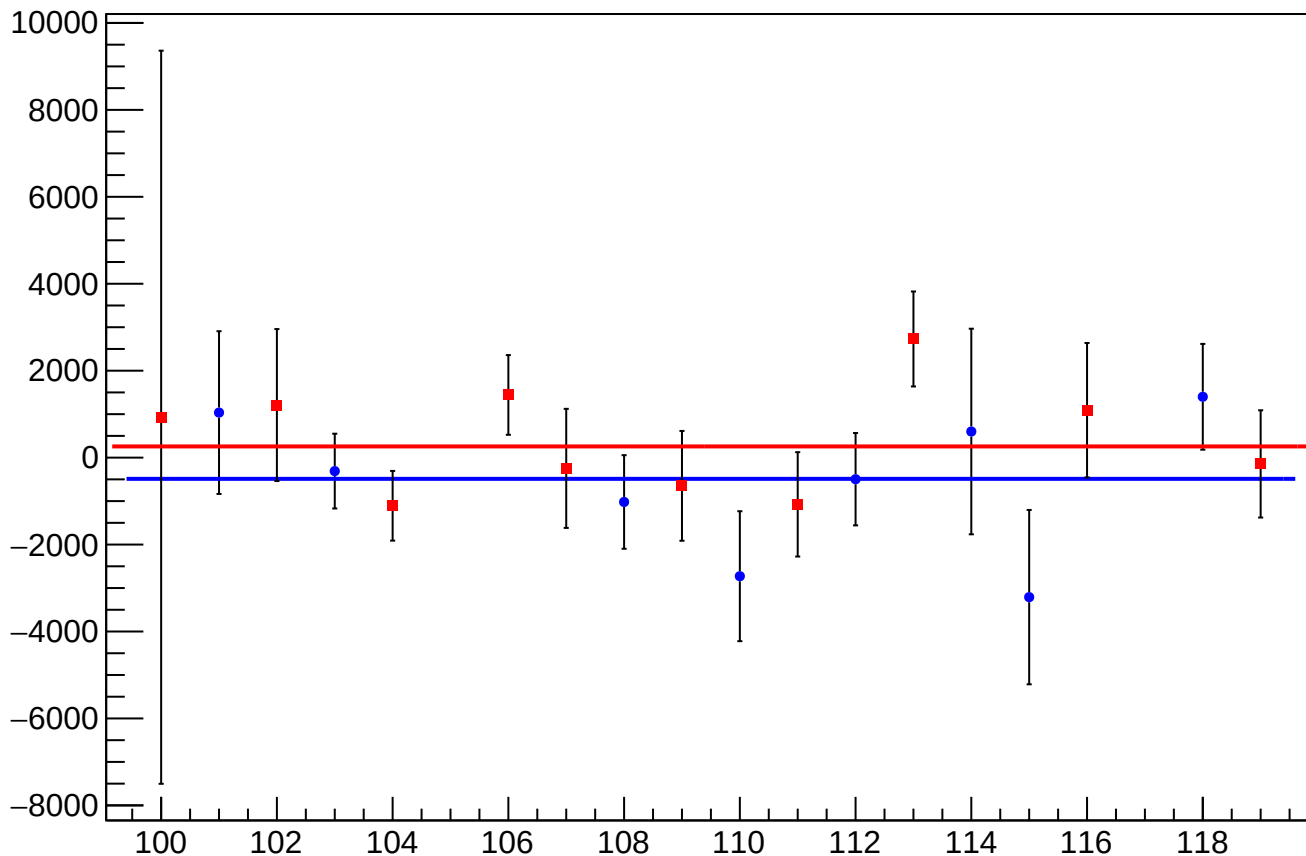
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1658.806+/-0.447  $\chi^2/\text{NDF}$ : 798901.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -488.010+/-450.090  $\chi^2/\text{NDF}$ : 7.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 257.735+/-381.989  $\chi^2/\text{NDF}$ : 12.3/9

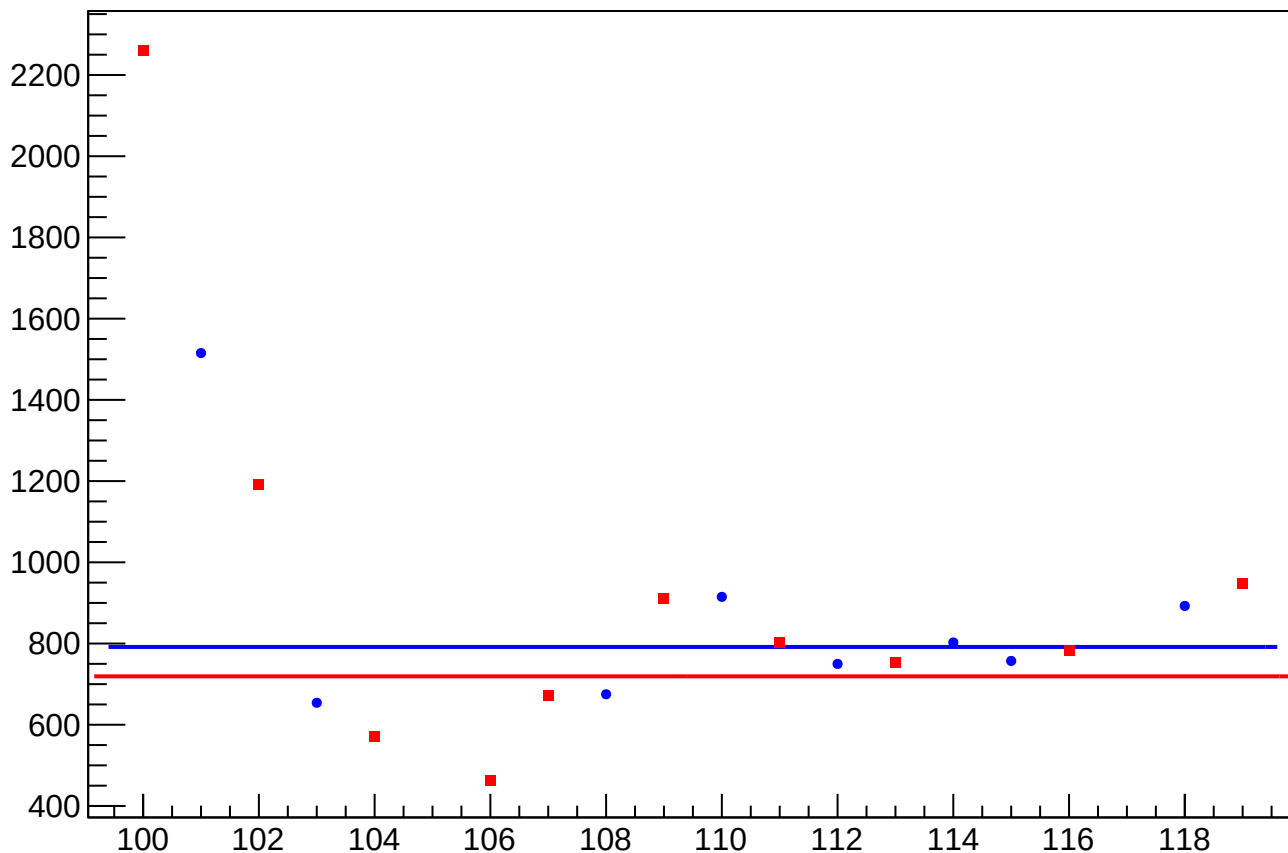
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -54.508+/-291.240  $\chi^2/\text{NDF}$ : 21.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 791.619+/-0.318  $\chi^2/\text{NDF}$ : 404610.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 719.214+/-0.270  $\chi^2/\text{NDF}$ : 569259.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

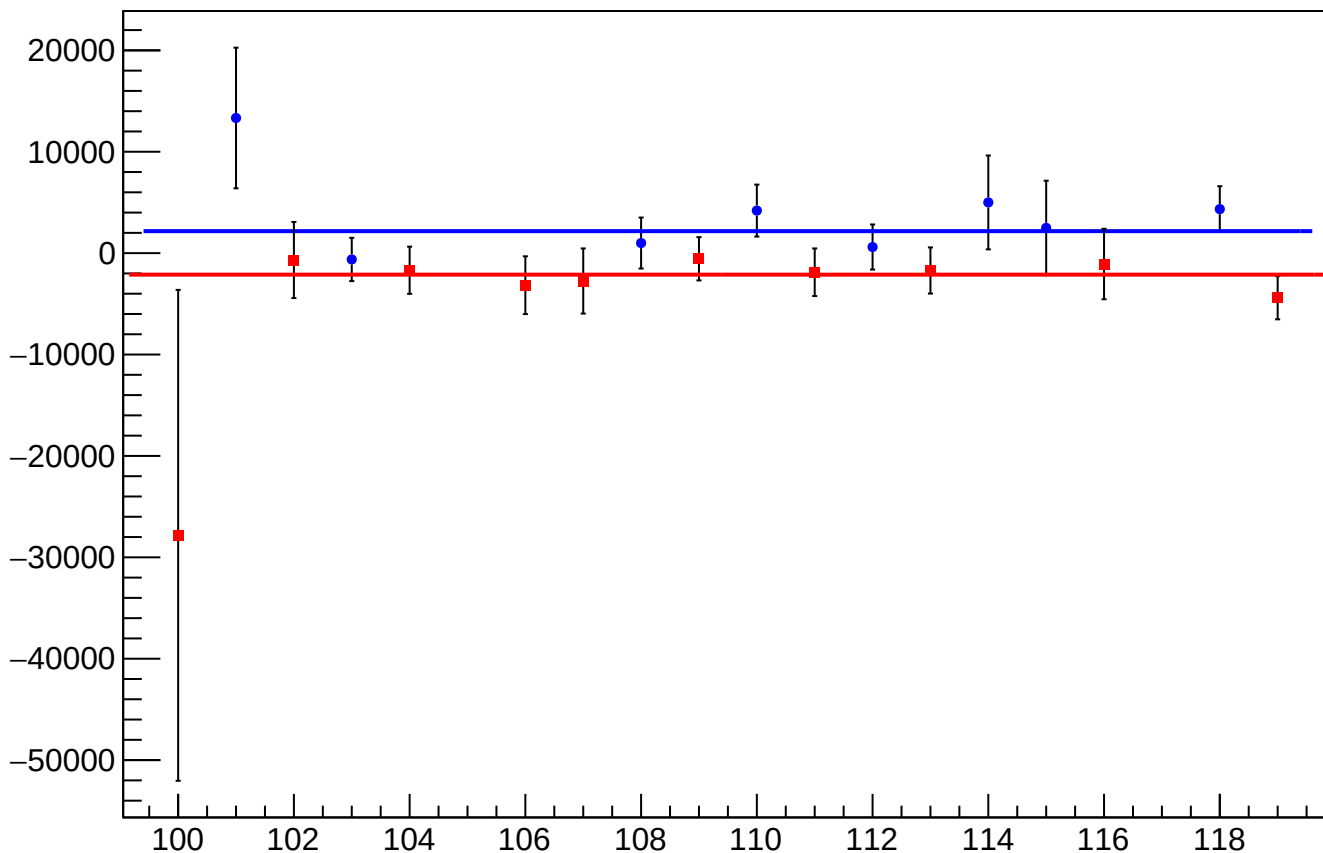
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 749.530+/-0.206  $\chi^2/\text{NDF}$ : 1003955.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 2169.275 $\pm$ 979.505  $\chi^2$ /NDF: 7.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2120.867 $\pm$ 852.867  $\chi^2$ /NDF: 3.3/9

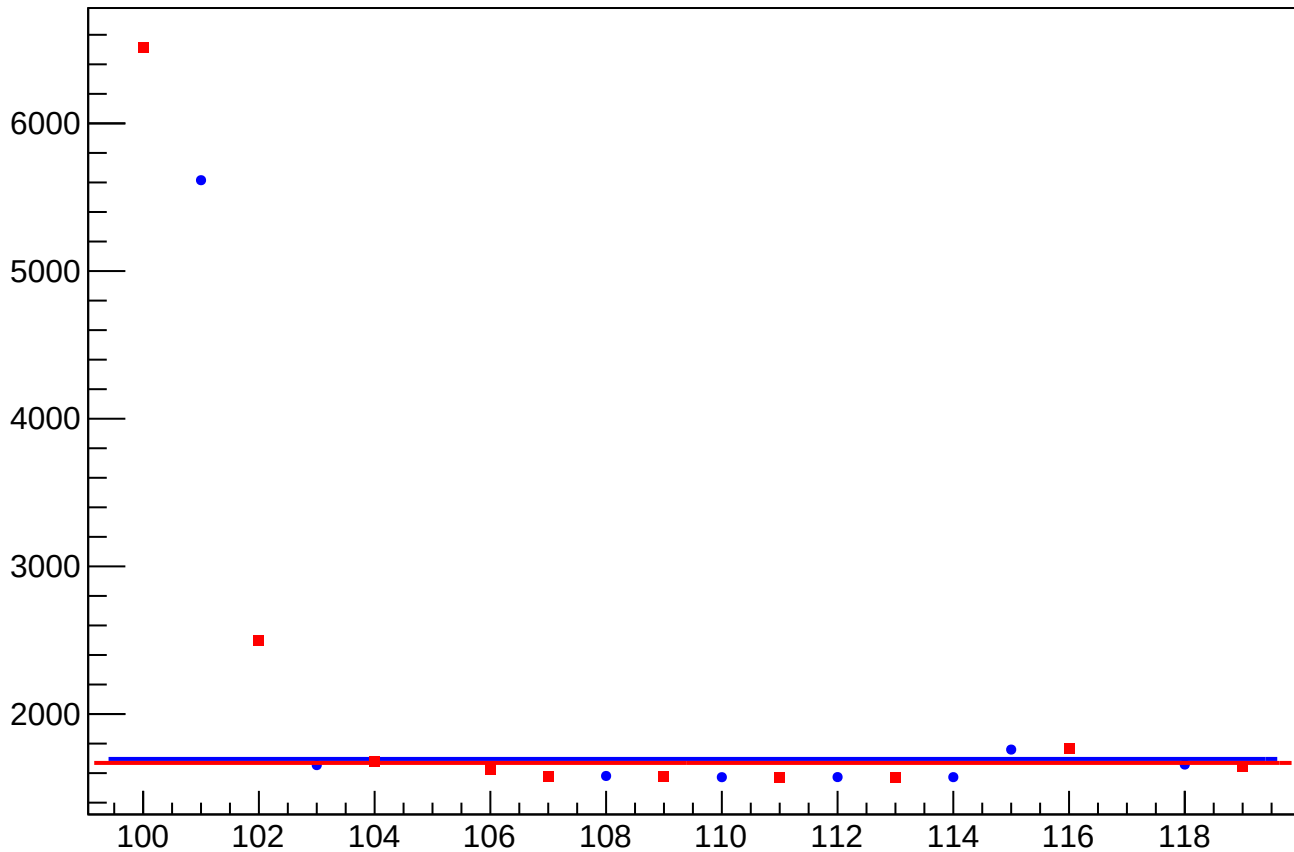
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -270.883 $\pm$ 643.213  $\chi^2$ /NDF: 21.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1696.148 $\pm$ 0.693  $\chi^2$ /NDF: 656867.8/7

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

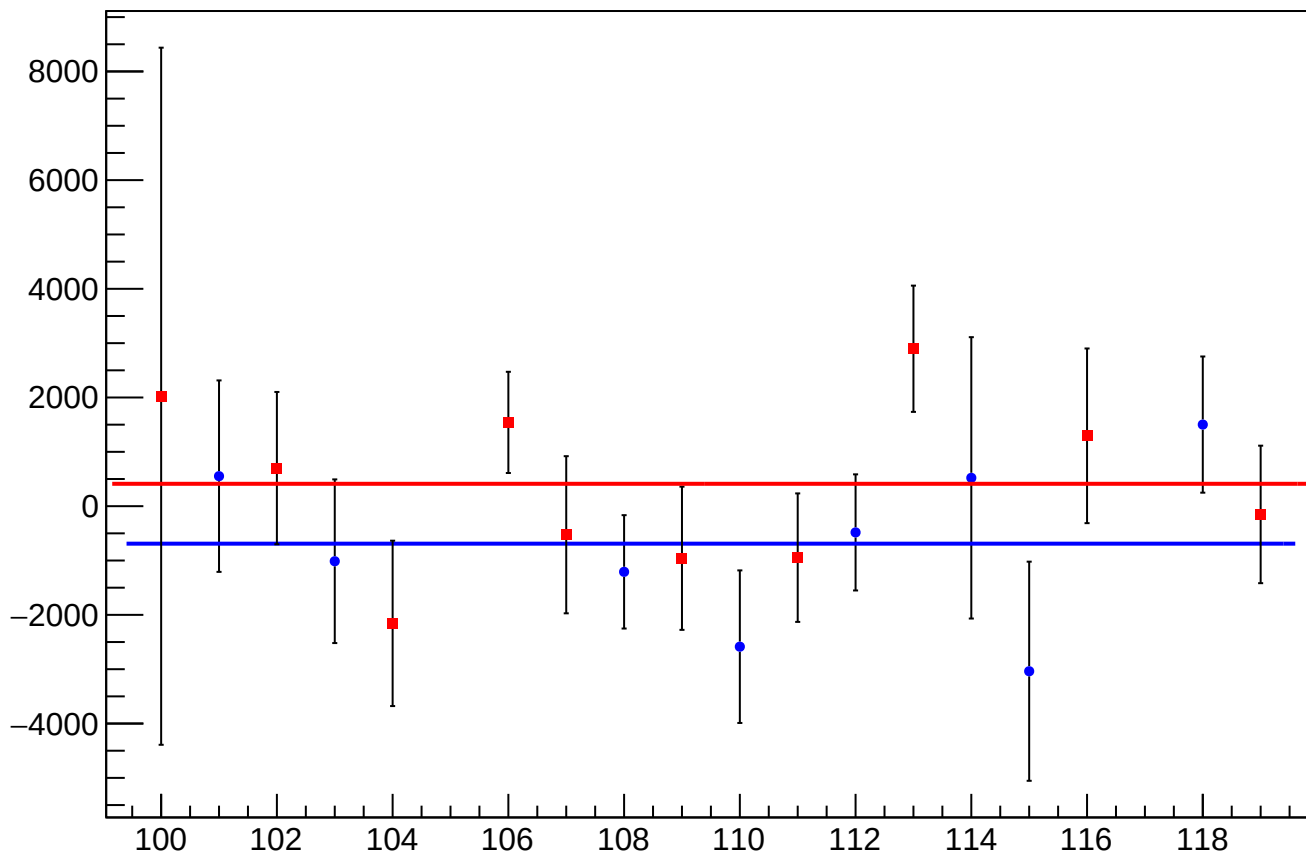
Right Out: 1669.053 $\pm$ 0.603  $\chi^2$ /NDF: 192130.7/9

All: 1680.736 $\pm$ 0.455  $\chi^2$ /NDF: 849868.9/17

- 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\_atr1\_avg\_dit\_correction\_mean vs Slug



Right In: -689.885+/-494.005  $\chi^2/\text{NDF}$ : 7.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 411.841+/-421.022  $\chi^2/\text{NDF}$ : 12.3/9

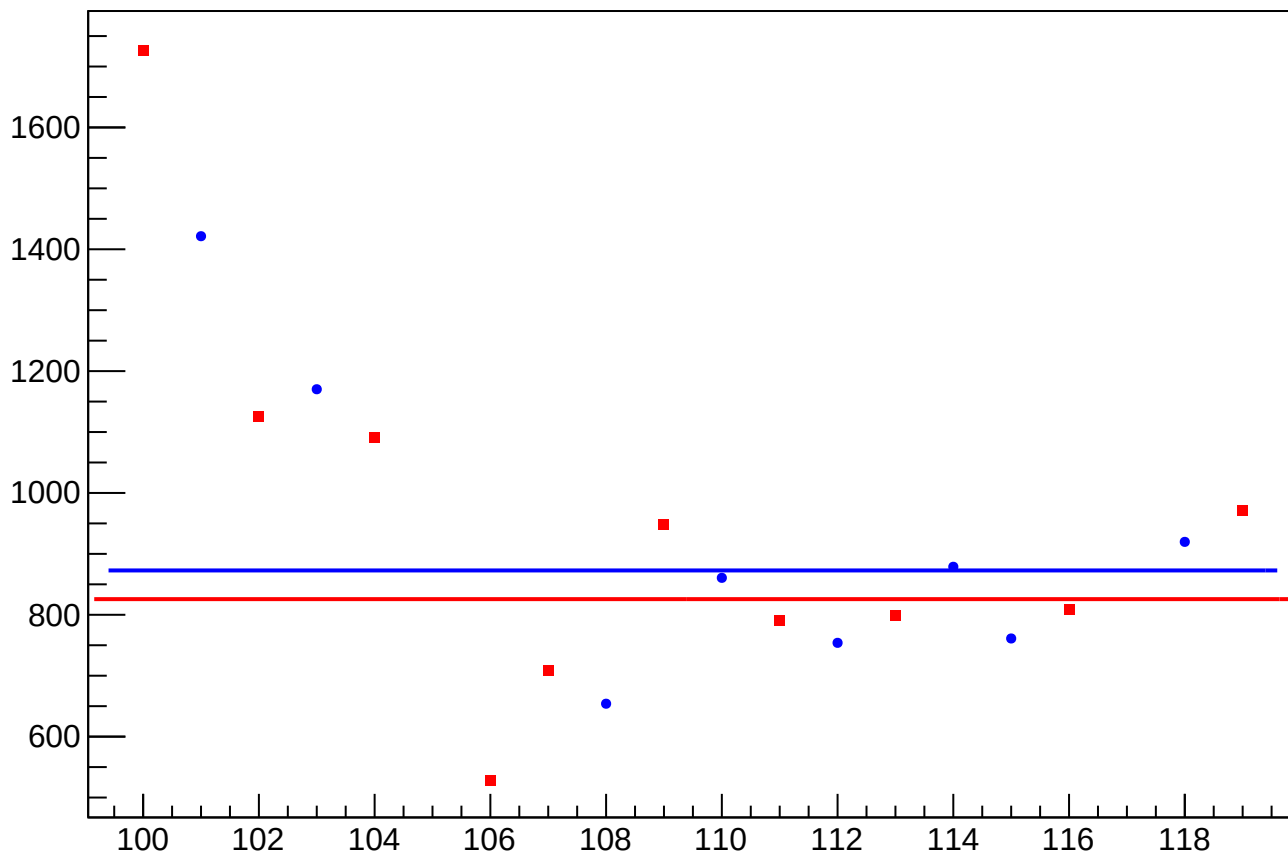
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -51.704+/-320.435  $\chi^2/\text{NDF}$ : 22.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_avg\_dit\_correction\_rms vs Slug



Right In: 872.796 $\pm$ 0.349  $\chi^2$ /NDF: 393860.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 825.702 $\pm$ 0.298  $\chi^2$ /NDF: 456230.9/9

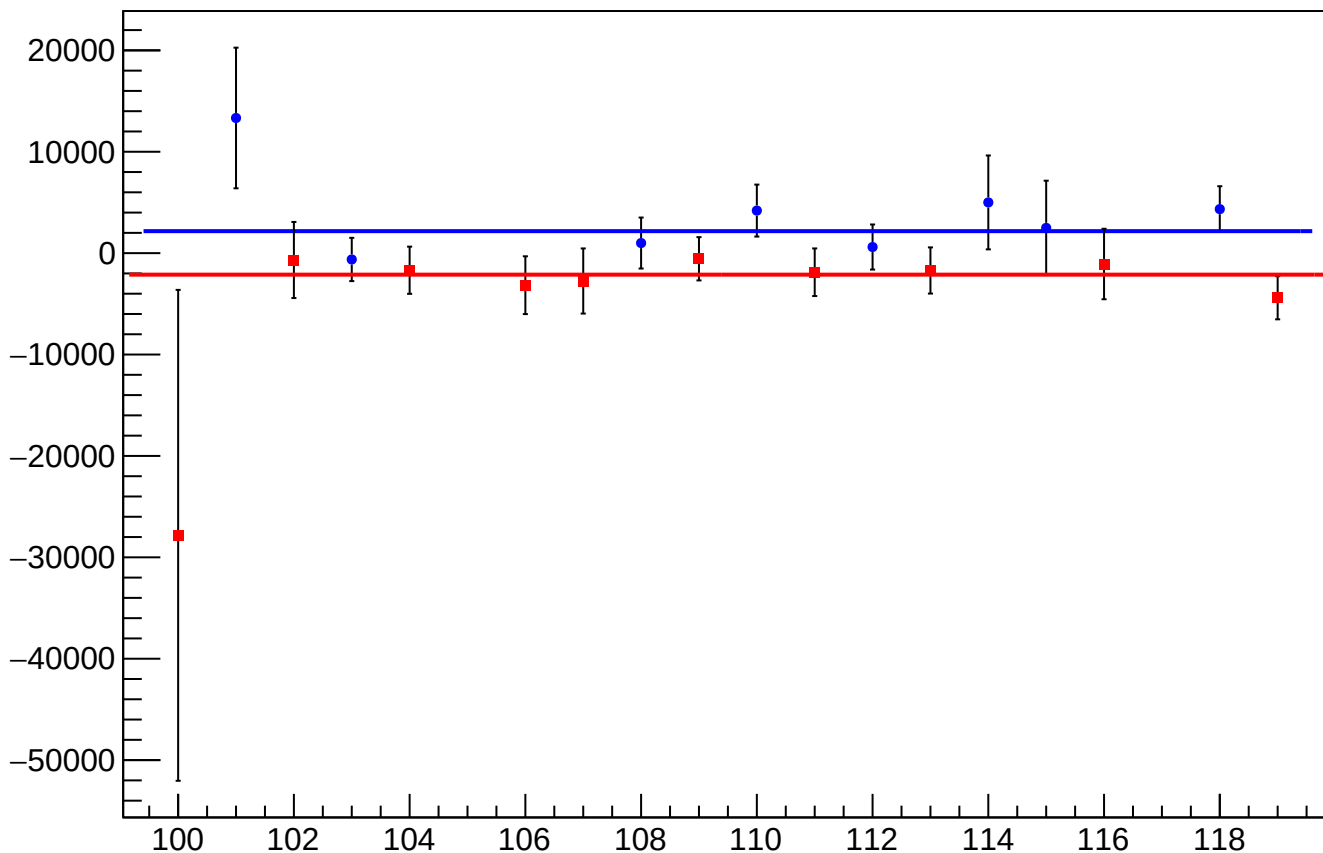
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 845.516 $\pm$ 0.227  $\chi^2$ /NDF: 860620.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 2169.277+/-979.505  $\chi^2/\text{NDF}$ : 7.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2120.867+/-852.867  $\chi^2/\text{NDF}$ : 3.3/9

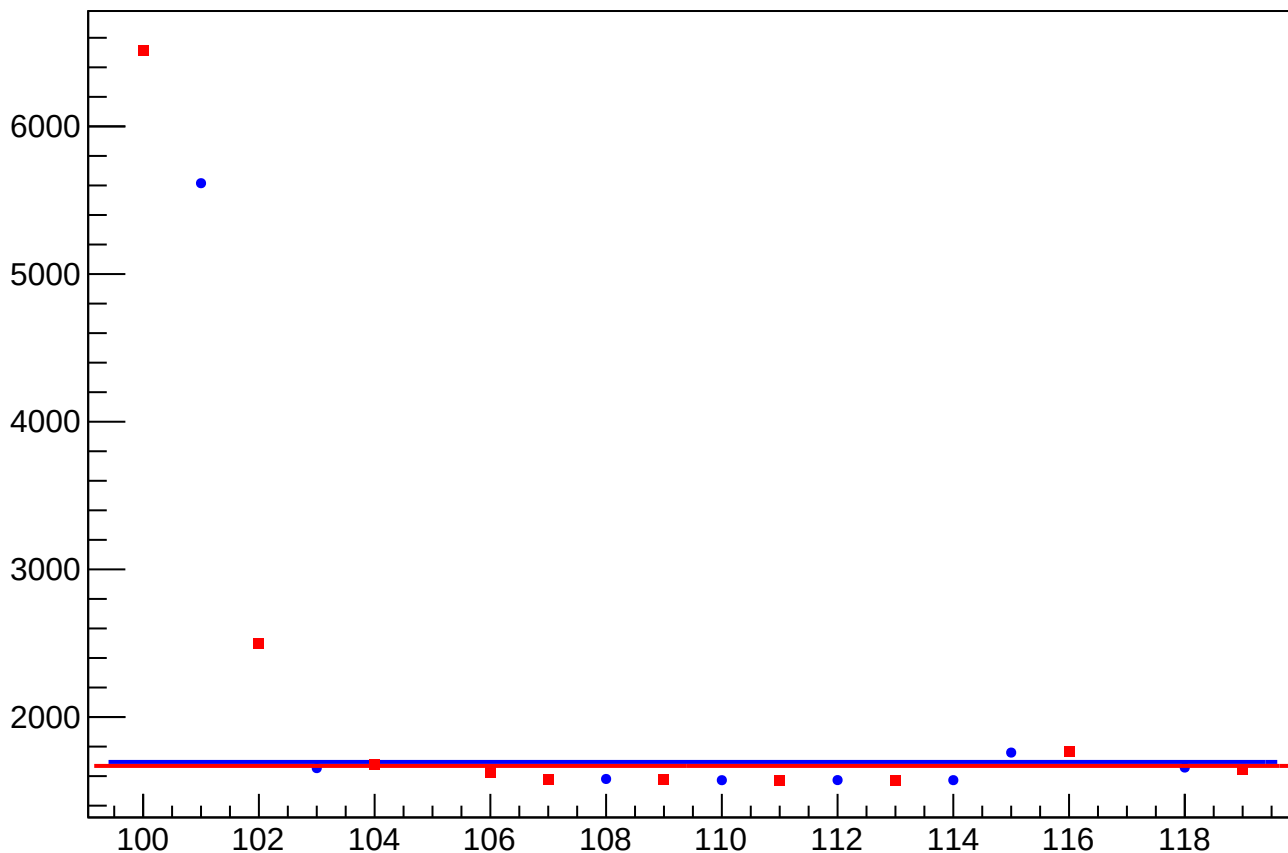
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -270.882+/-643.213  $\chi^2/\text{NDF}$ : 21.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1696.147 $\pm$ 0.693  $\chi^2$ /NDF: 656867.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1669.052 $\pm$ 0.603  $\chi^2$ /NDF: 192130.5/9

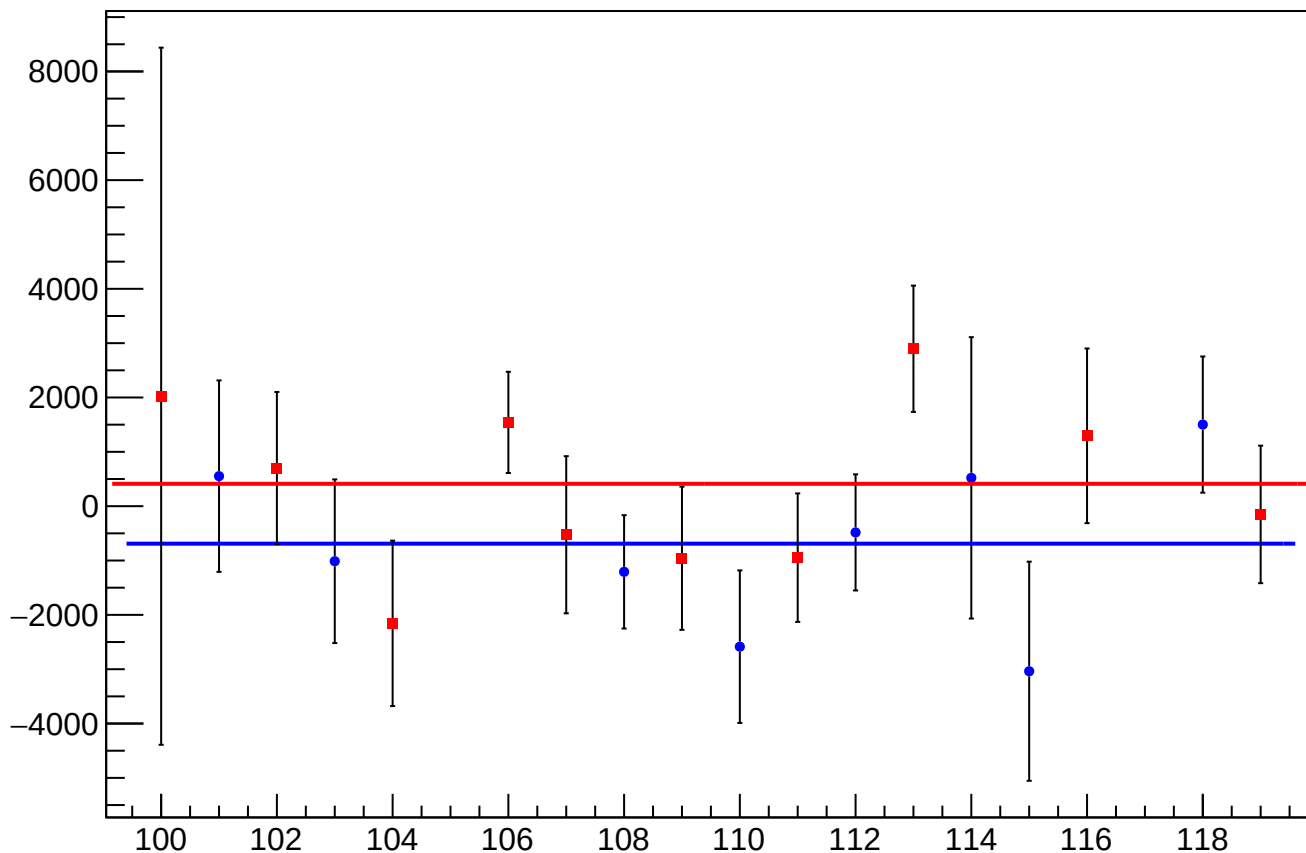
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1680.736 $\pm$ 0.455  $\chi^2$ /NDF: 849868.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -689.882 $\pm$ 494.002  $\chi^2$ /NDF: 7.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 411.840 $\pm$ 421.021  $\chi^2$ /NDF: 12.3/9

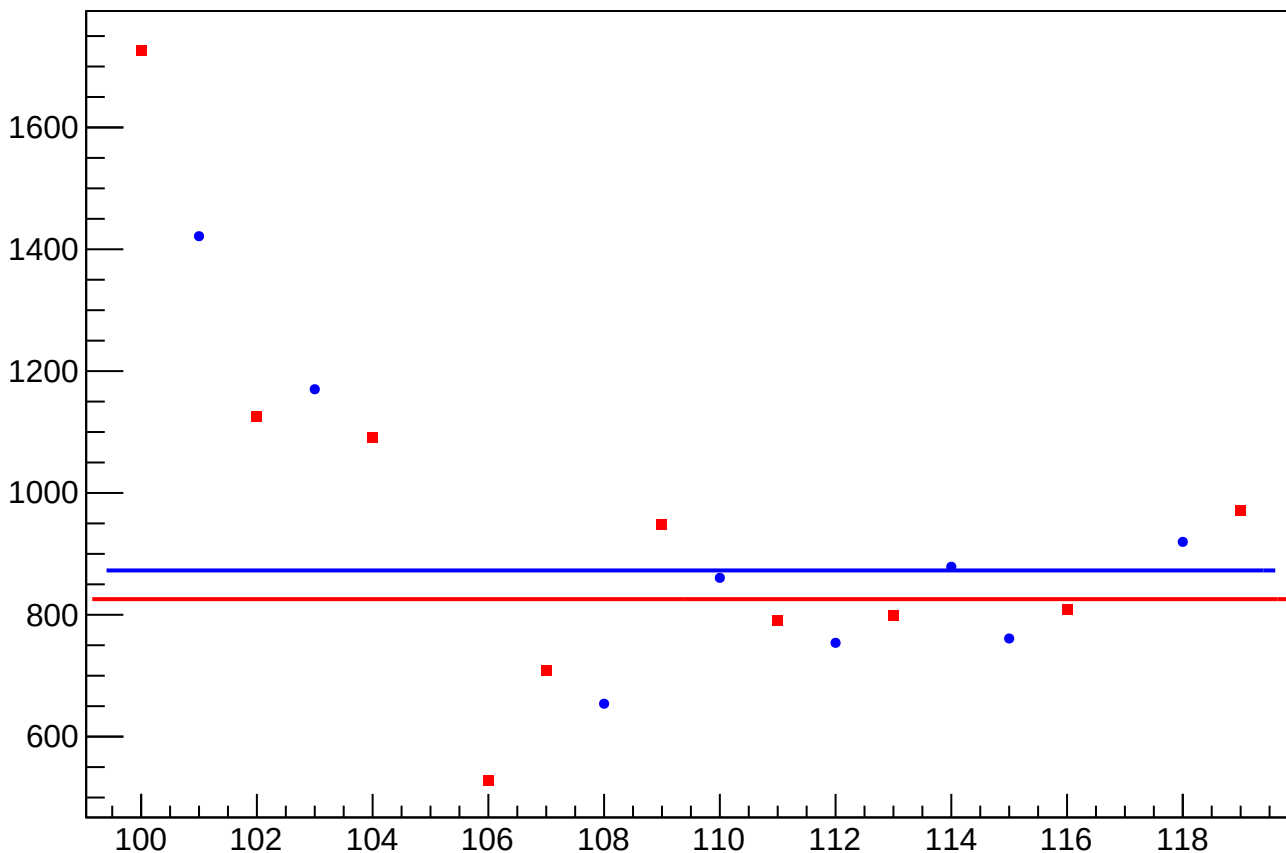
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -51.704 $\pm$ 320.434  $\chi^2$ /NDF: 22.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 872.791+/-0.349  $\chi^2/\text{NDF}$ : 393863.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 825.700+/-0.298  $\chi^2/\text{NDF}$ : 456226.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

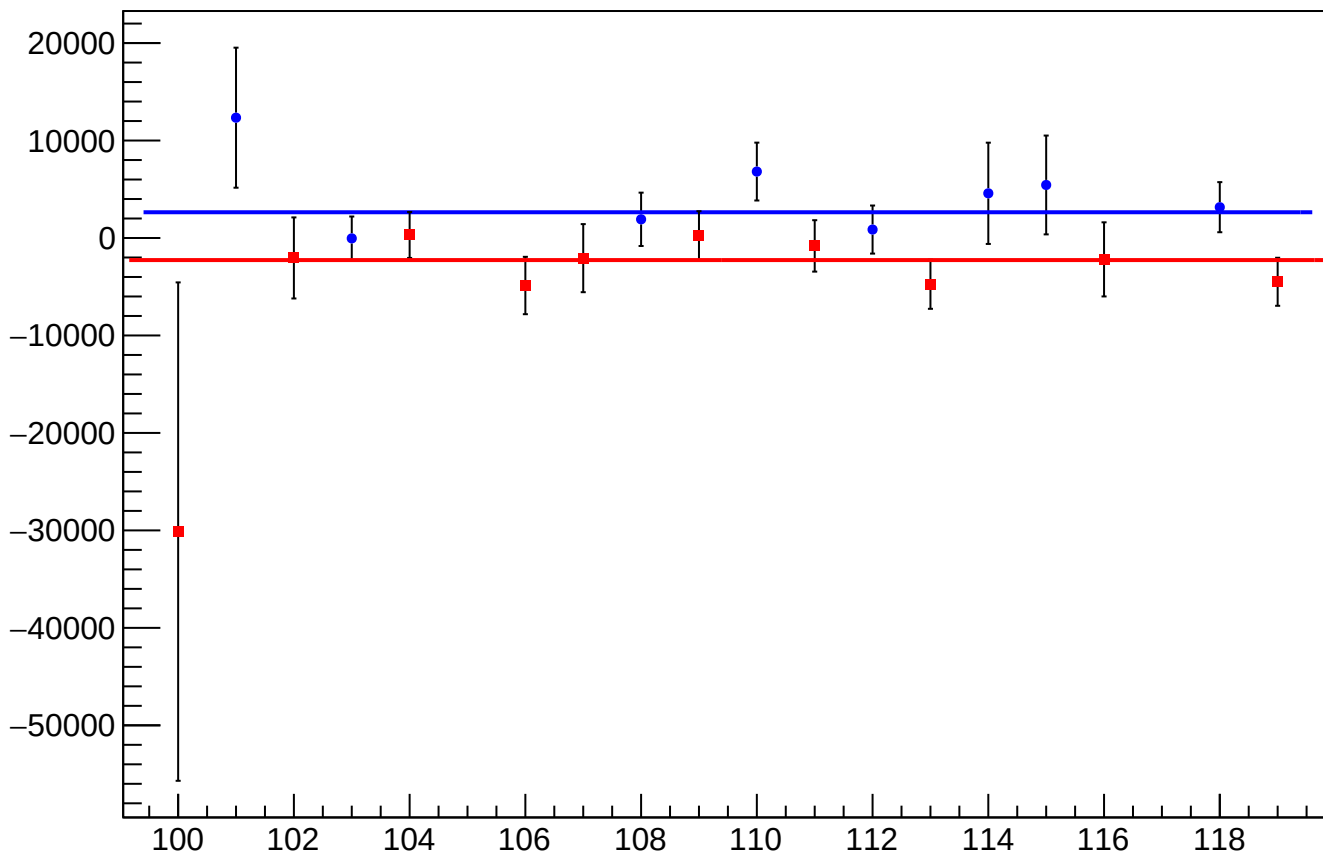
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 845.513+/-0.227  $\chi^2/\text{NDF}$ : 860618.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 2641.459+/-1080.282  $\chi^2/\text{NDF}$ : 6.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2265.083+/-941.275  $\chi^2/\text{NDF}$ : 6.2/9

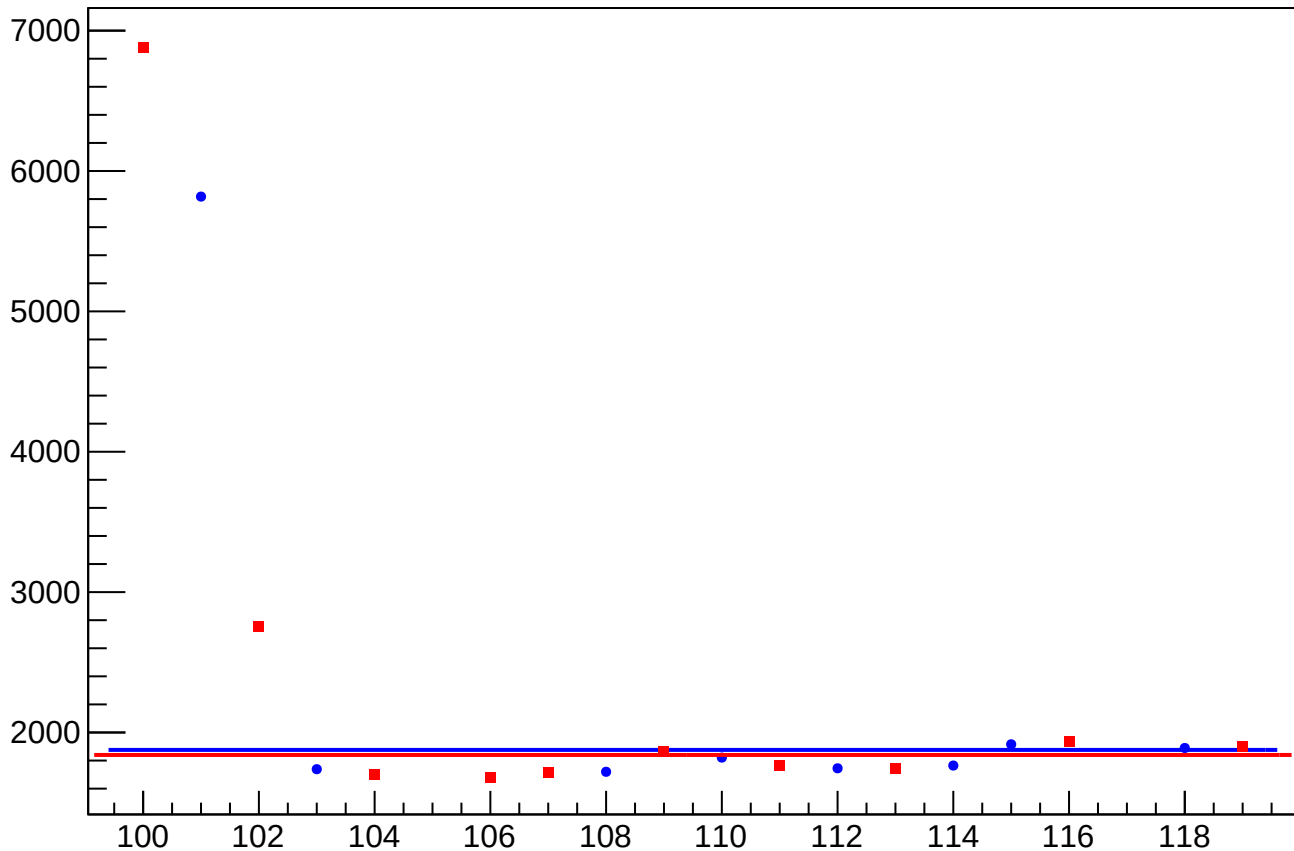
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -147.610+/-709.673  $\chi^2/\text{NDF}$ : 24.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1875.905+/-0.764  $\chi^2/\text{NDF}$ : 623559.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1839.958+/-0.666  $\chi^2/\text{NDF}$ : 197928.0/9

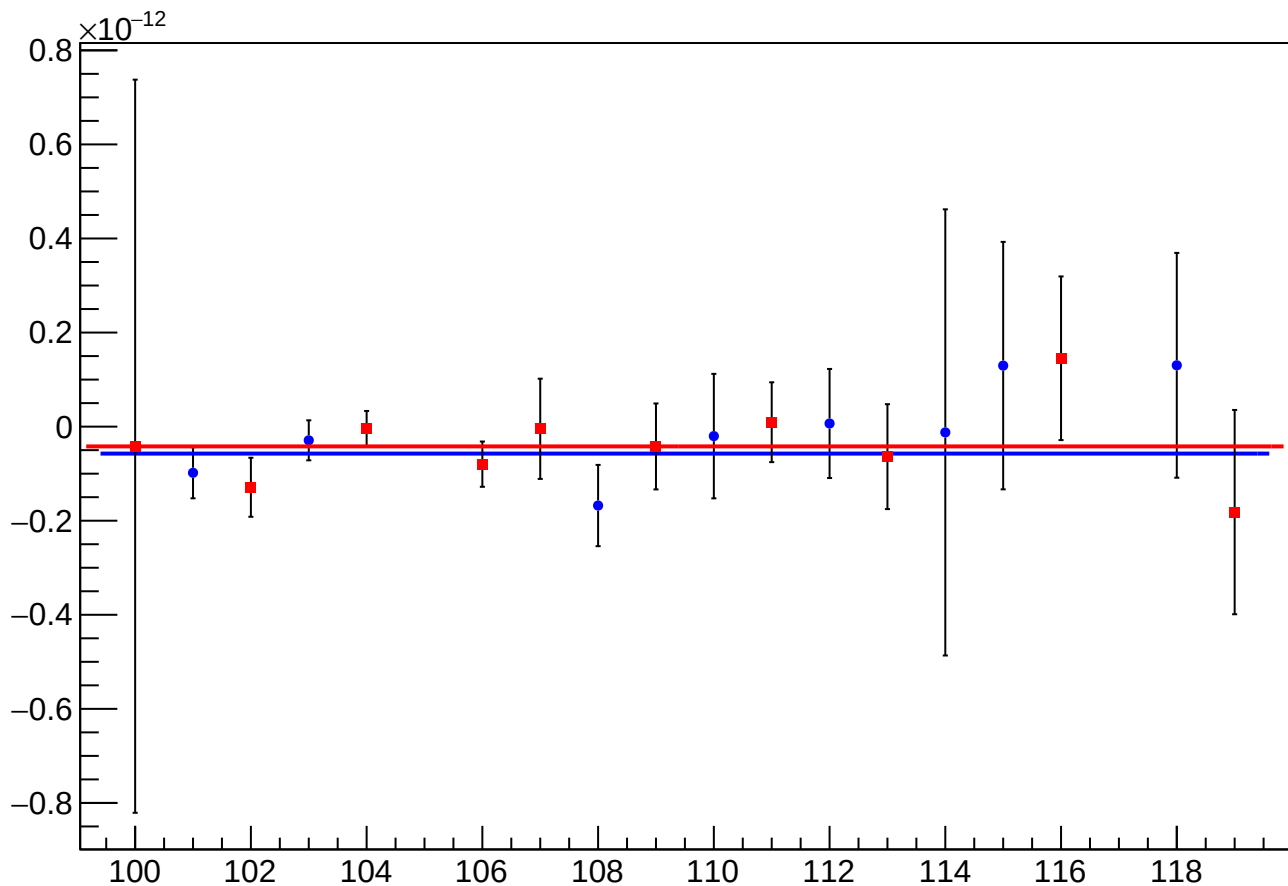
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1855.471+/-0.502  $\chi^2/\text{NDF}$ : 822746.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.6/9

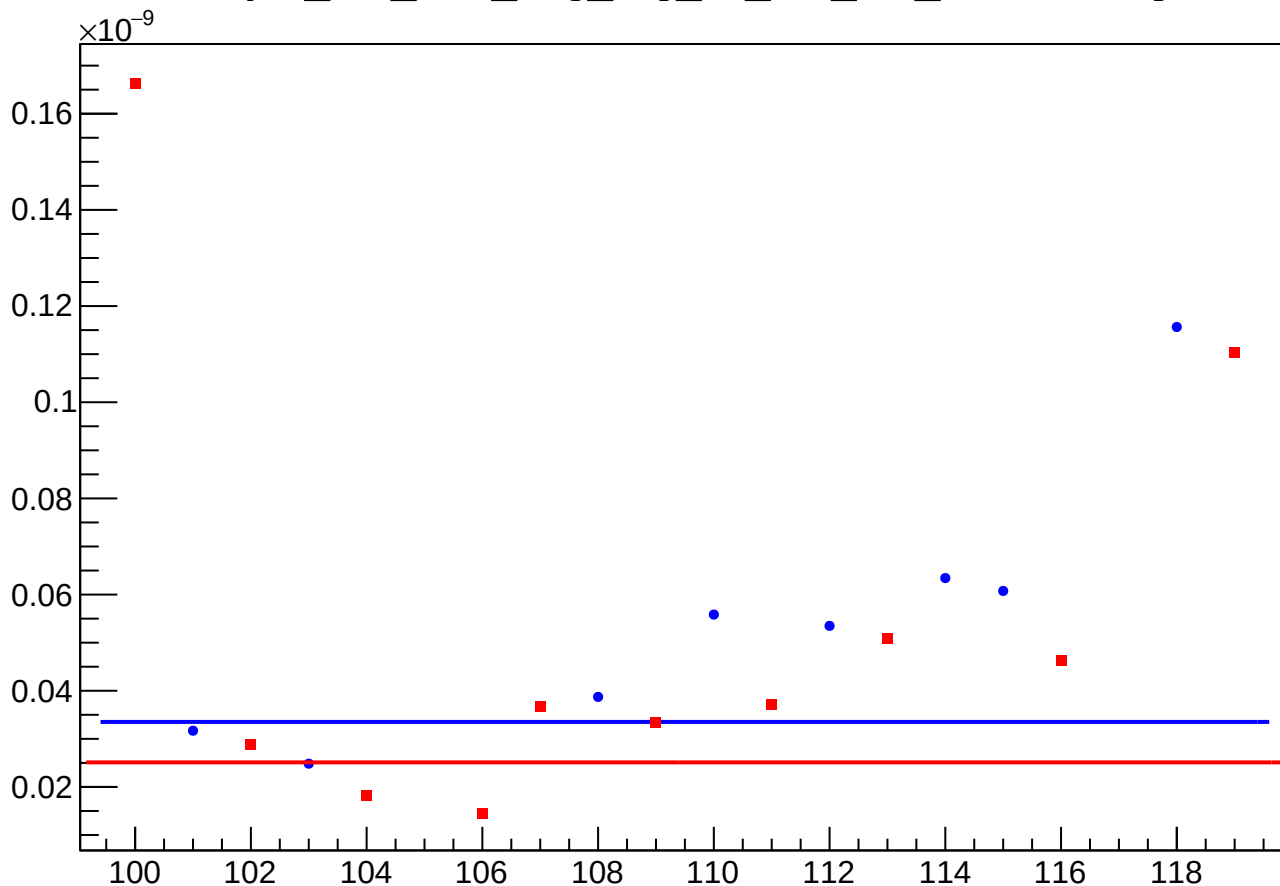
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 474842.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 763571.8/9

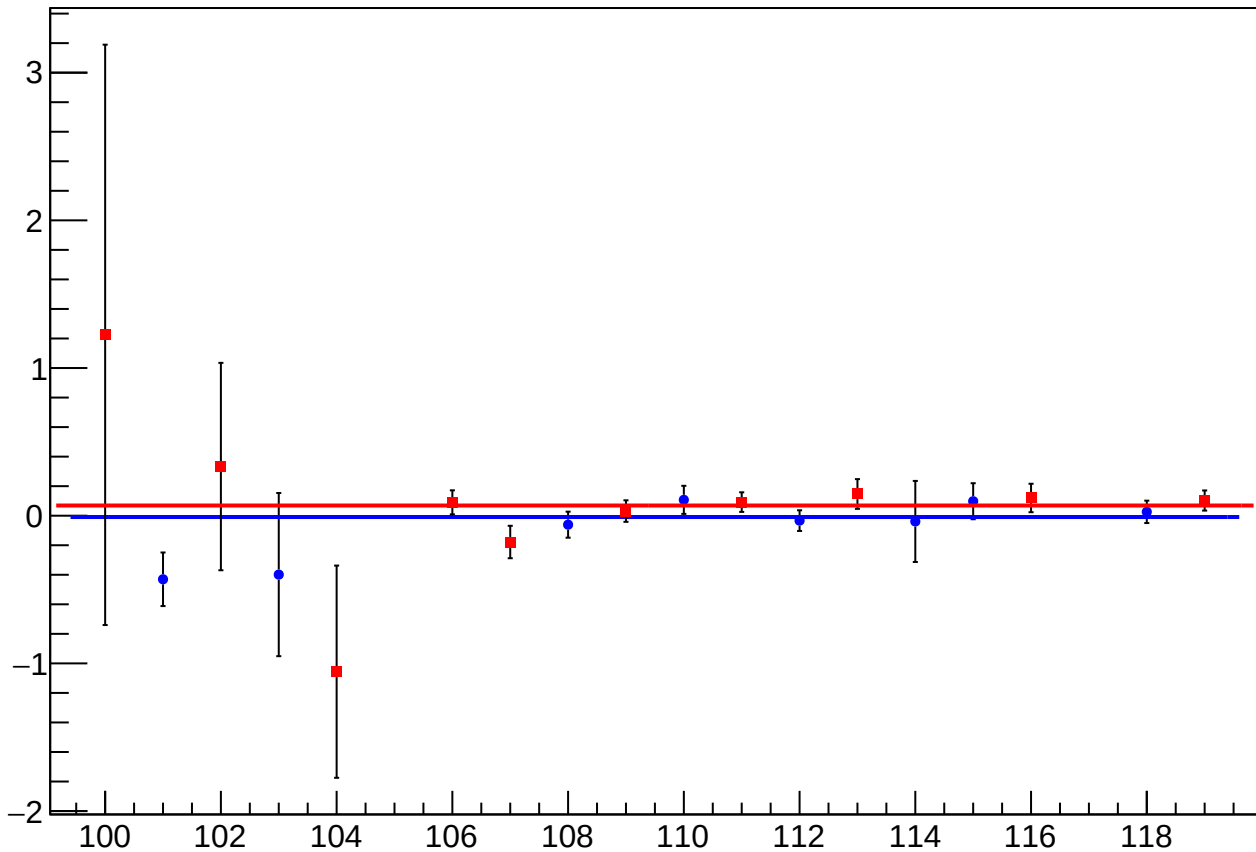
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1341654.6/17

- 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: -0.009 $\pm$ 0.037  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.069 $\pm$ 0.030  $\chi^2$ /NDF: 9.6/9

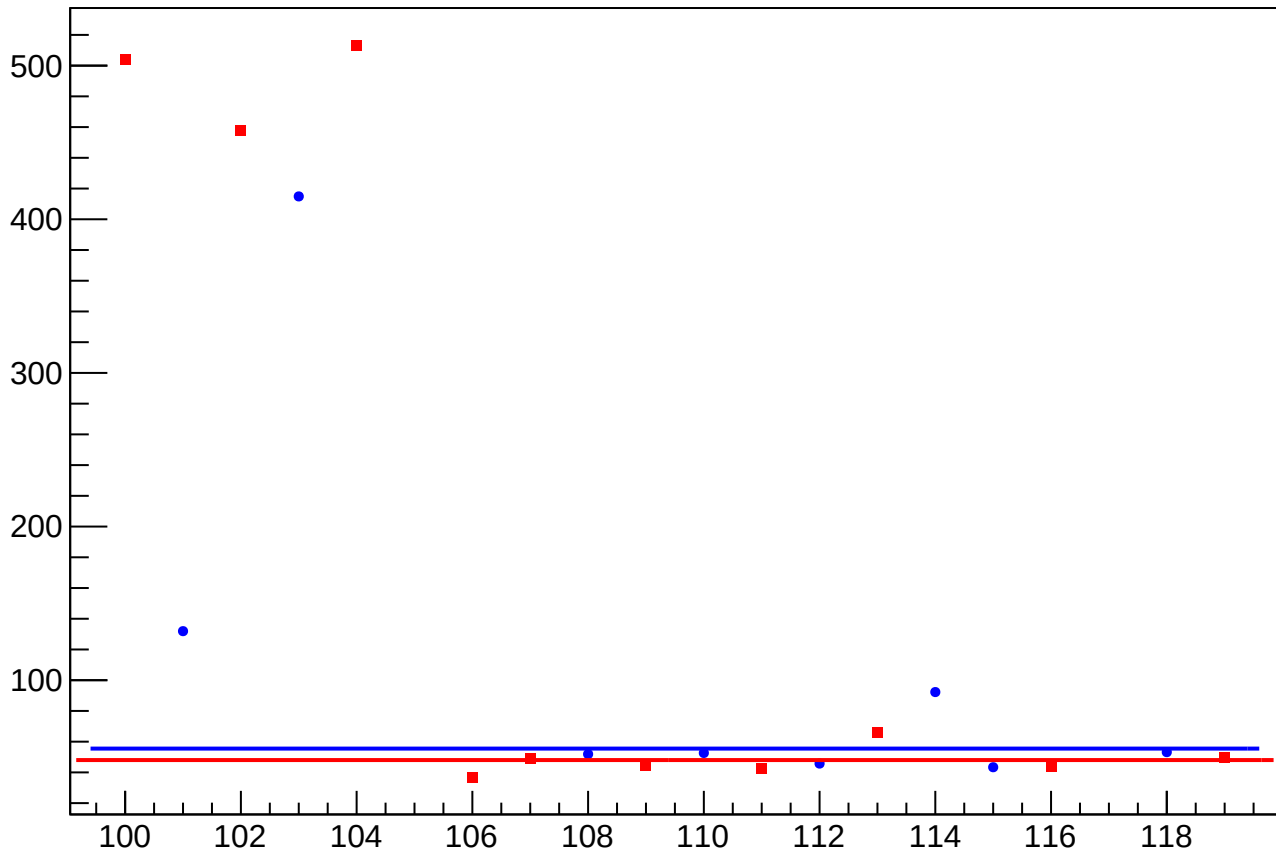
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.037 $\pm$ 0.024  $\chi^2$ /NDF: 21.1/17

- 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: 55.494+/-0.026  $\chi^2/\text{NDF}$ : 1303059.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.027+/-0.022  $\chi^2/\text{NDF}$ : 1754781.0/9

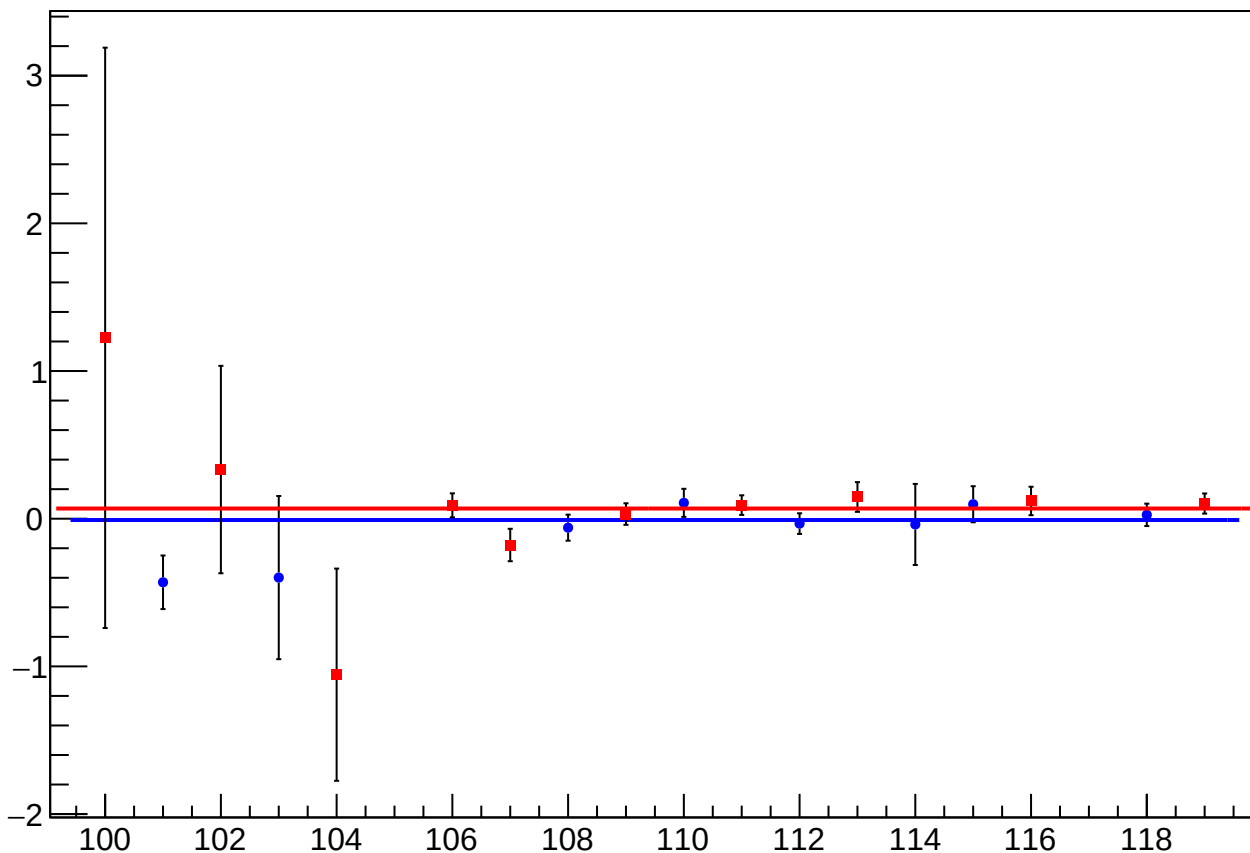
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.051+/-0.017  $\chi^2/\text{NDF}$ : 3106424.8/17

- 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: -0.009+/-0.037  $\chi^2/\text{NDF}$ : 8.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.069+/-0.030  $\chi^2/\text{NDF}$ : 9.6/9

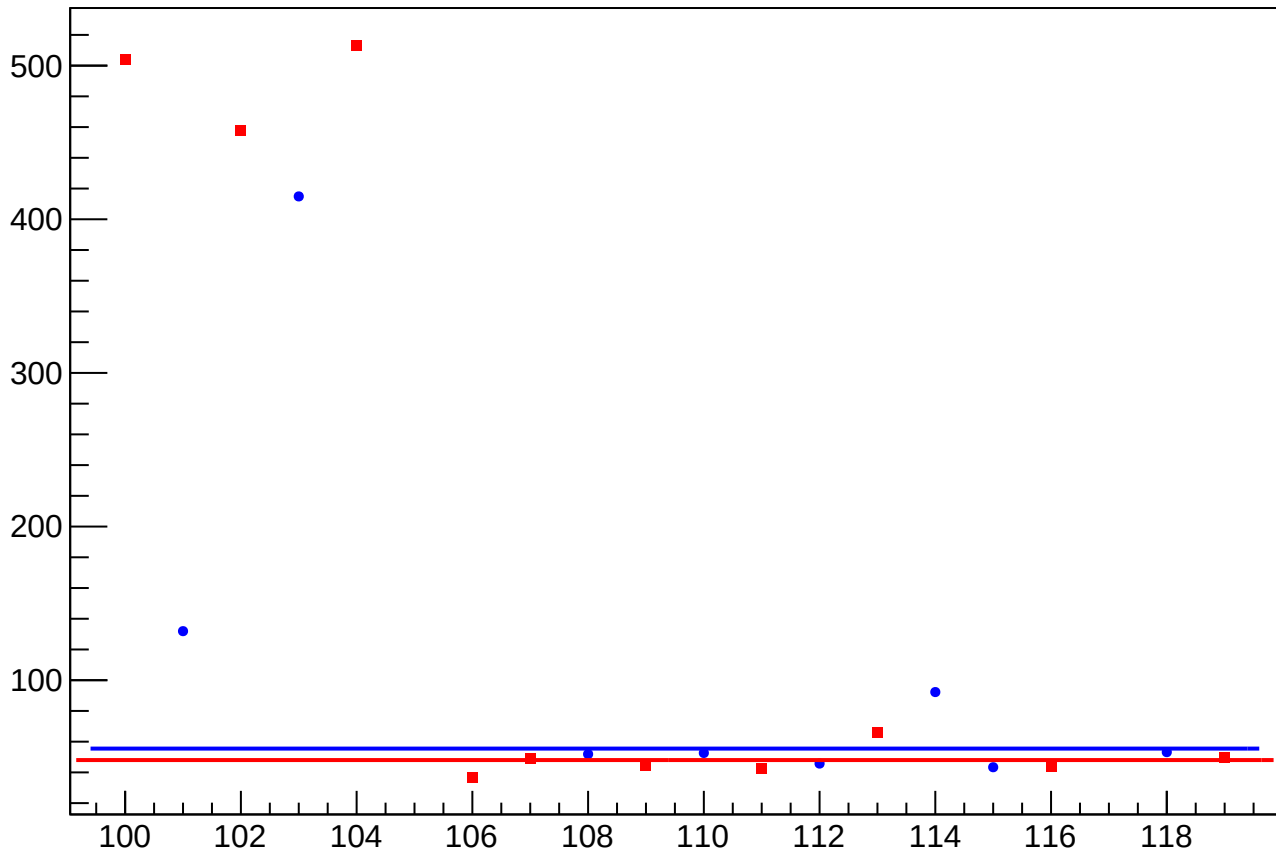
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.037+/-0.024  $\chi^2/\text{NDF}$ : 21.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 55.494 $\pm$ 0.026  $\chi^2$ /NDF: 1303059.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.027 $\pm$ 0.022  $\chi^2$ /NDF: 1754781.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

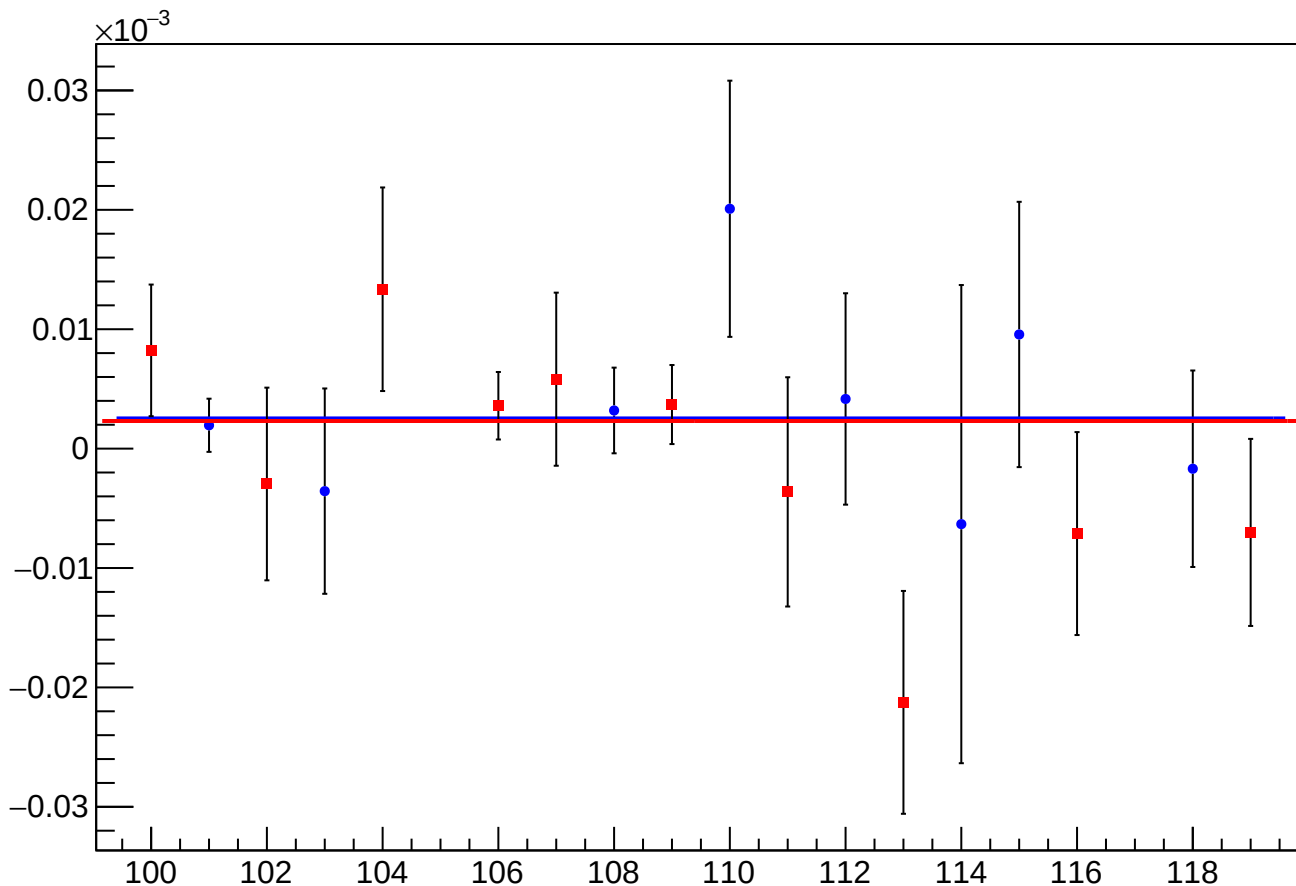
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 51.051 $\pm$ 0.017  $\chi^2$ /NDF: 3106424.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.3/9

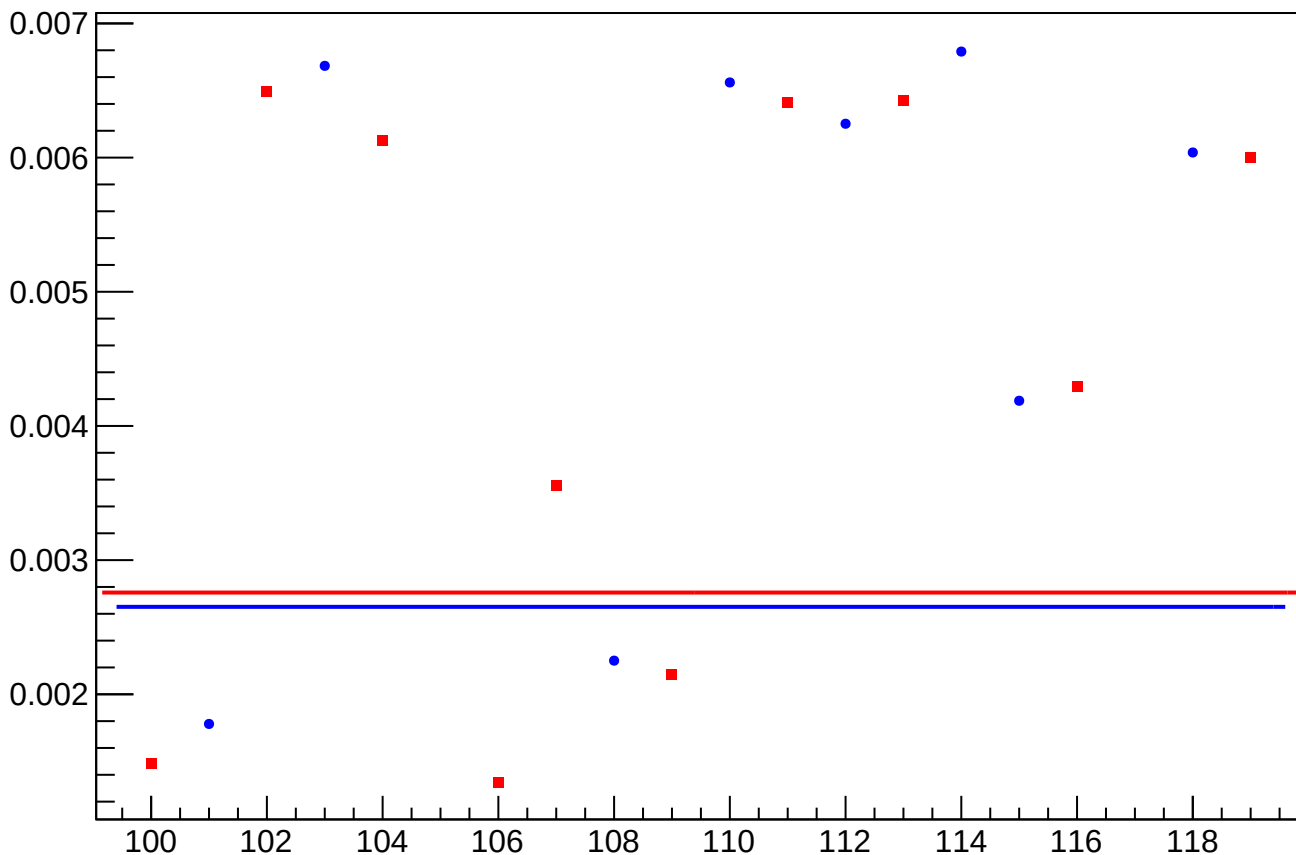
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1830787.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2447383.9/9

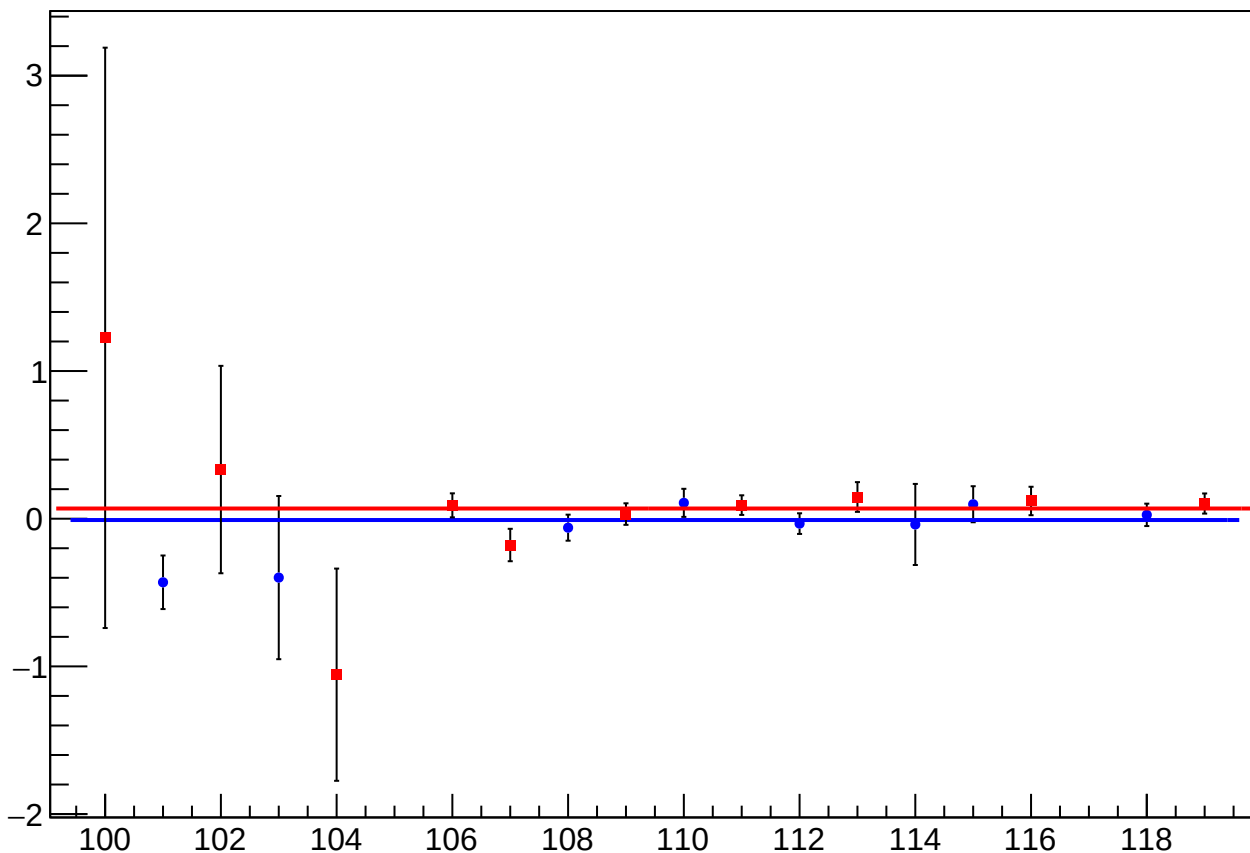
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 4282088.2/17

- 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: -0.009 $\pm$ 0.037  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.069 $\pm$ 0.030  $\chi^2$ /NDF: 9.6/9

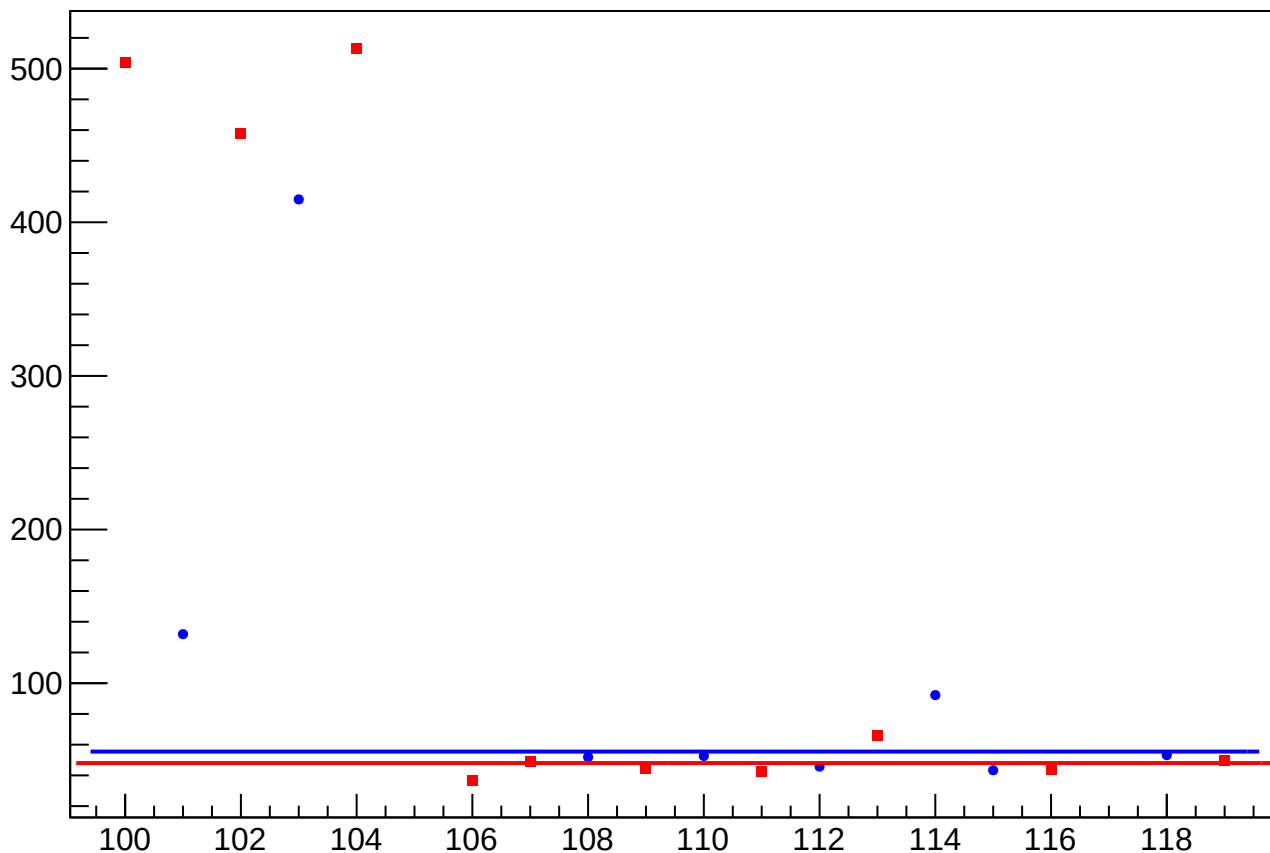
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.037 $\pm$ 0.024  $\chi^2$ /NDF: 21.1/17

- 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: 55.495 $\pm$ 0.026  $\chi^2$ /NDF: 1303041.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.026 $\pm$ 0.022  $\chi^2$ /NDF: 1754748.8/9

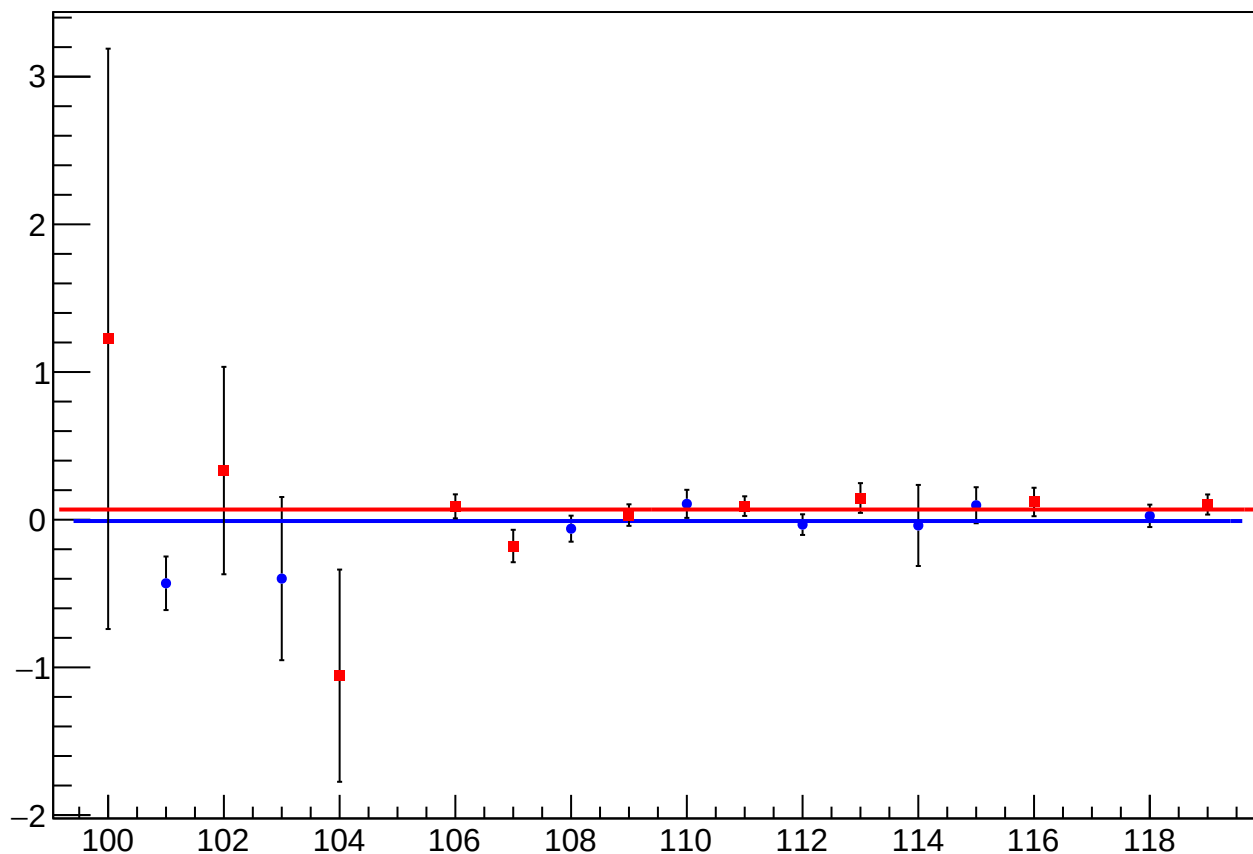
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 51.051 $\pm$ 0.017  $\chi^2$ /NDF: 3106391.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.009 $\pm$ 0.037  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.069 $\pm$ 0.030  $\chi^2$ /NDF: 9.6/9

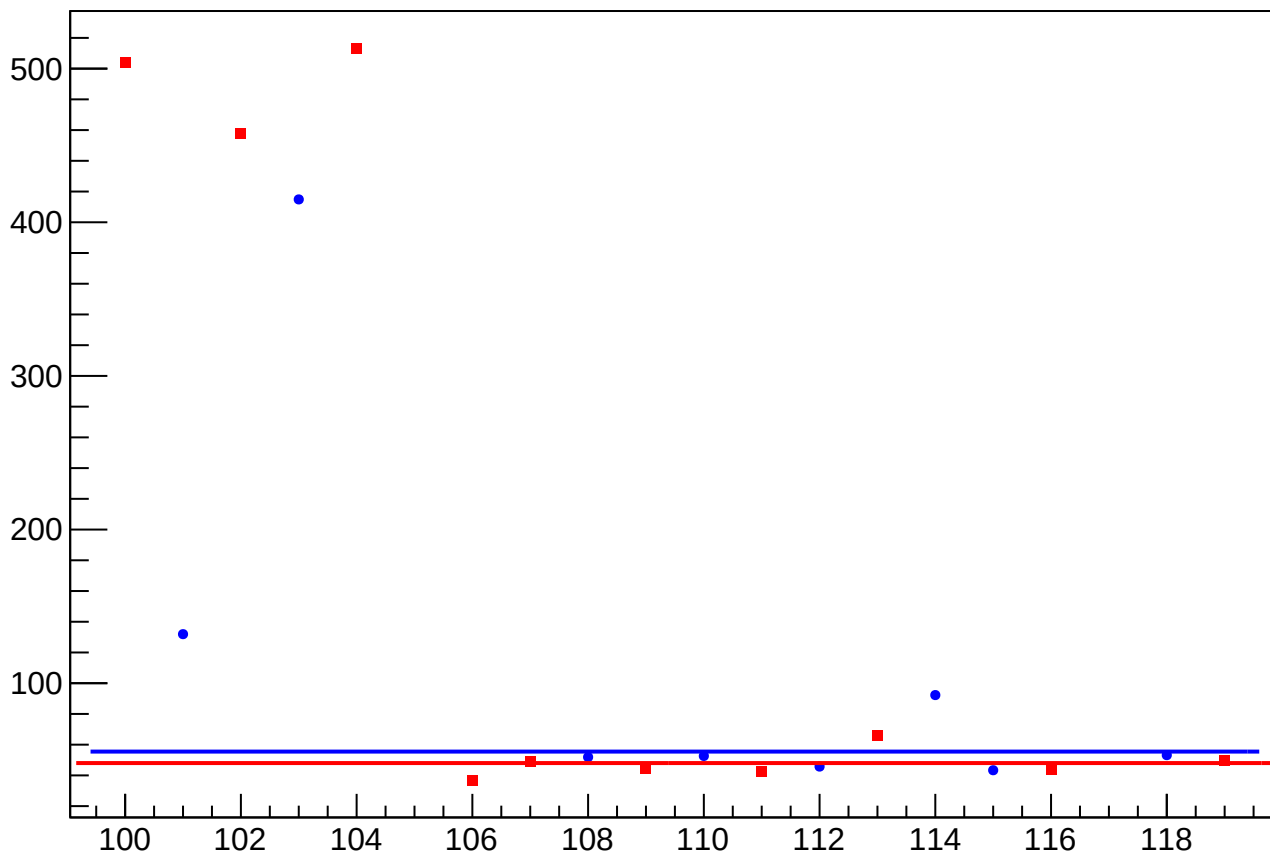
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.037 $\pm$ 0.024  $\chi^2$ /NDF: 21.1/17

- 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: 55.495+/-0.026  $\chi^2/\text{NDF}$ : 1303041.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.026+/-0.022  $\chi^2/\text{NDF}$ : 1754748.8/9

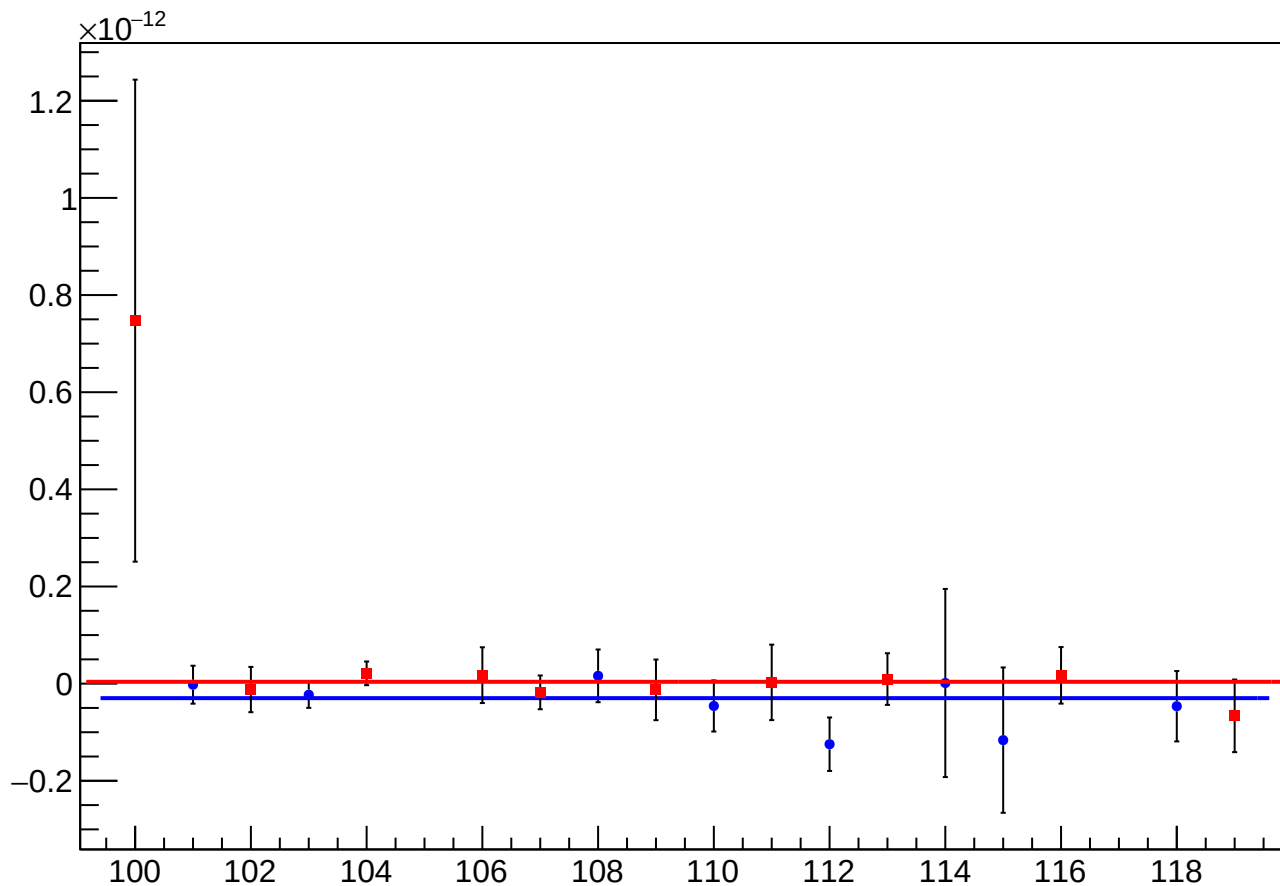
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.051+/-0.017  $\chi^2/\text{NDF}$ : 3106391.1/17

- 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  $\chi^2/\text{NDF}$ : 4.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.3/9

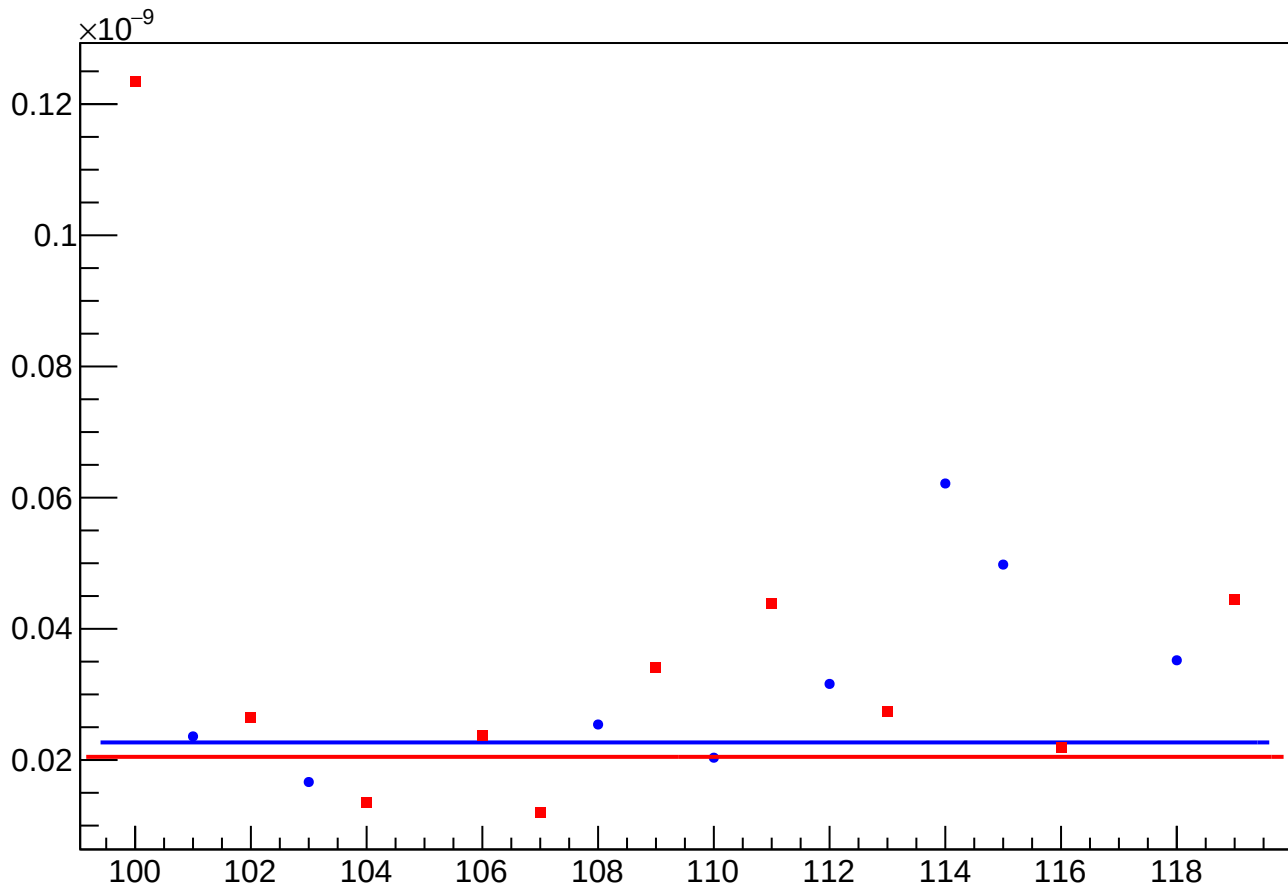
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.3/17

- 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  $\chi^2/\text{NDF}$ : 371356.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 922904.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

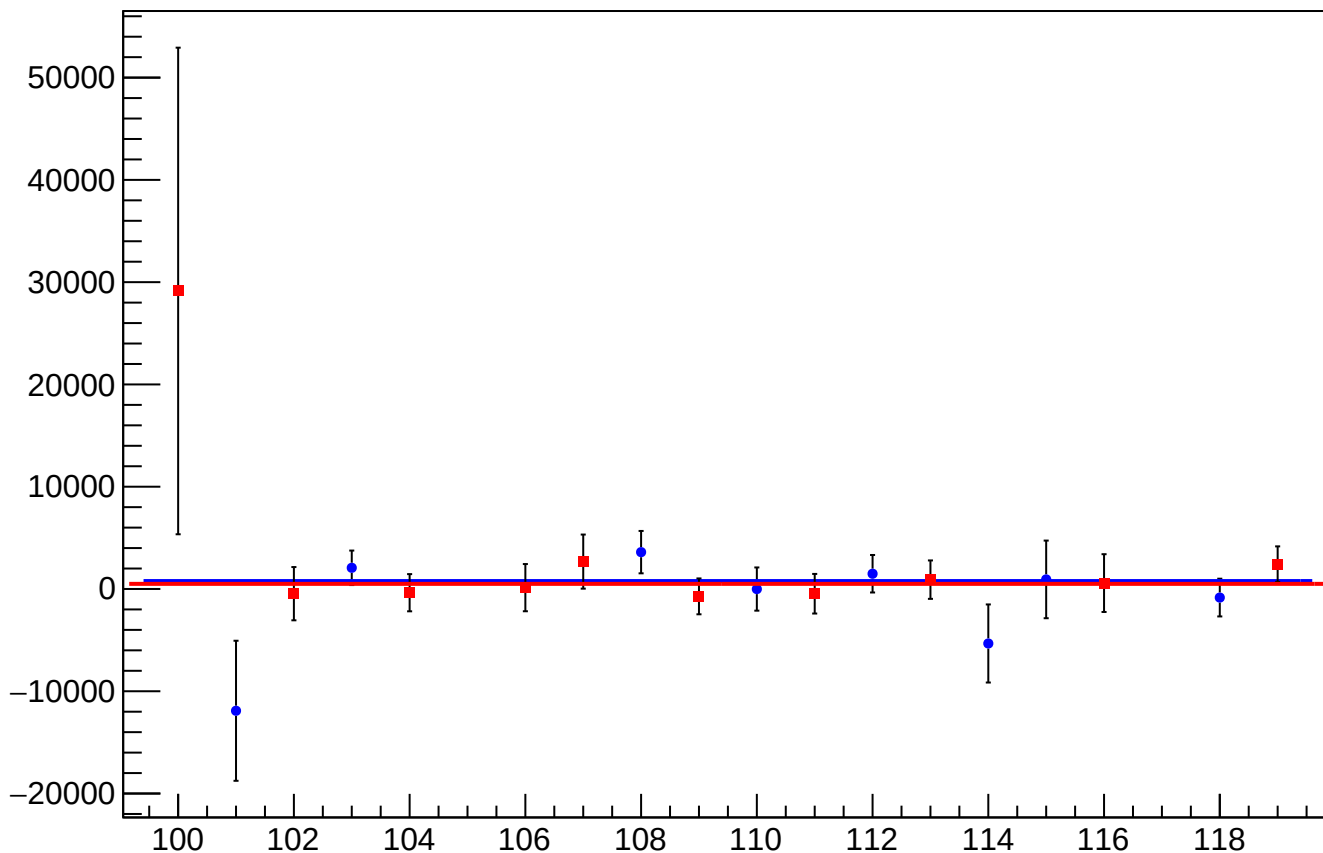
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1312783.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 774.170+/-800.690  $\chi^2/\text{NDF}$ : 9.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 500.453+/-687.608  $\chi^2/\text{NDF}$ : 4.5/9

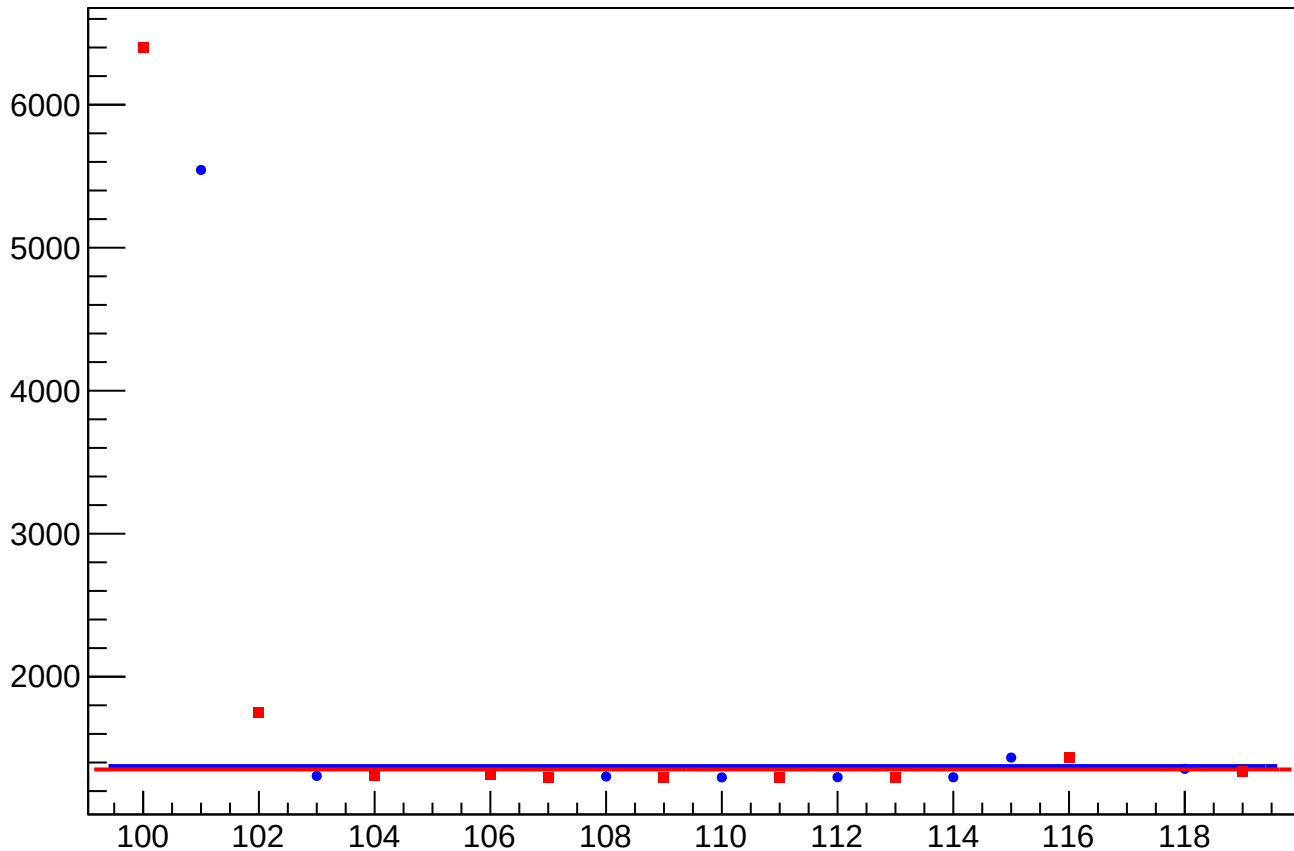
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 616.634+/-521.651  $\chi^2/\text{NDF}$ : 14.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1374.983+/-0.566  $\chi^2/\text{NDF}$ : 755151.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1351.384+/-0.486  $\chi^2/\text{NDF}$ : 146476.7/9

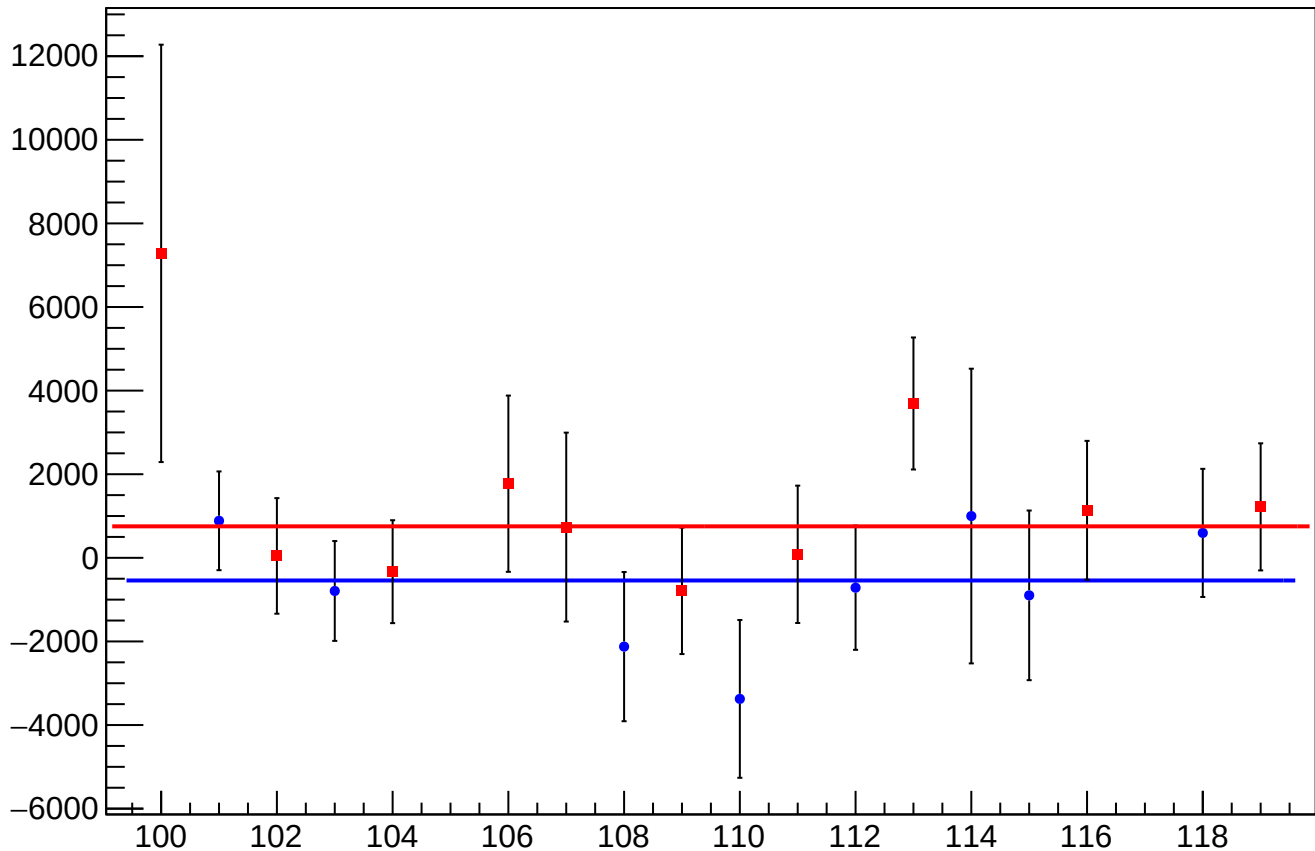
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1361.400+/-0.369  $\chi^2/\text{NDF}$ : 902628.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_reg\_correction\_mean vs Slug



Right In: -541.966+/-557.682  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 752.948+/-523.527  $\chi^2/\text{NDF}$ : 7.8/9

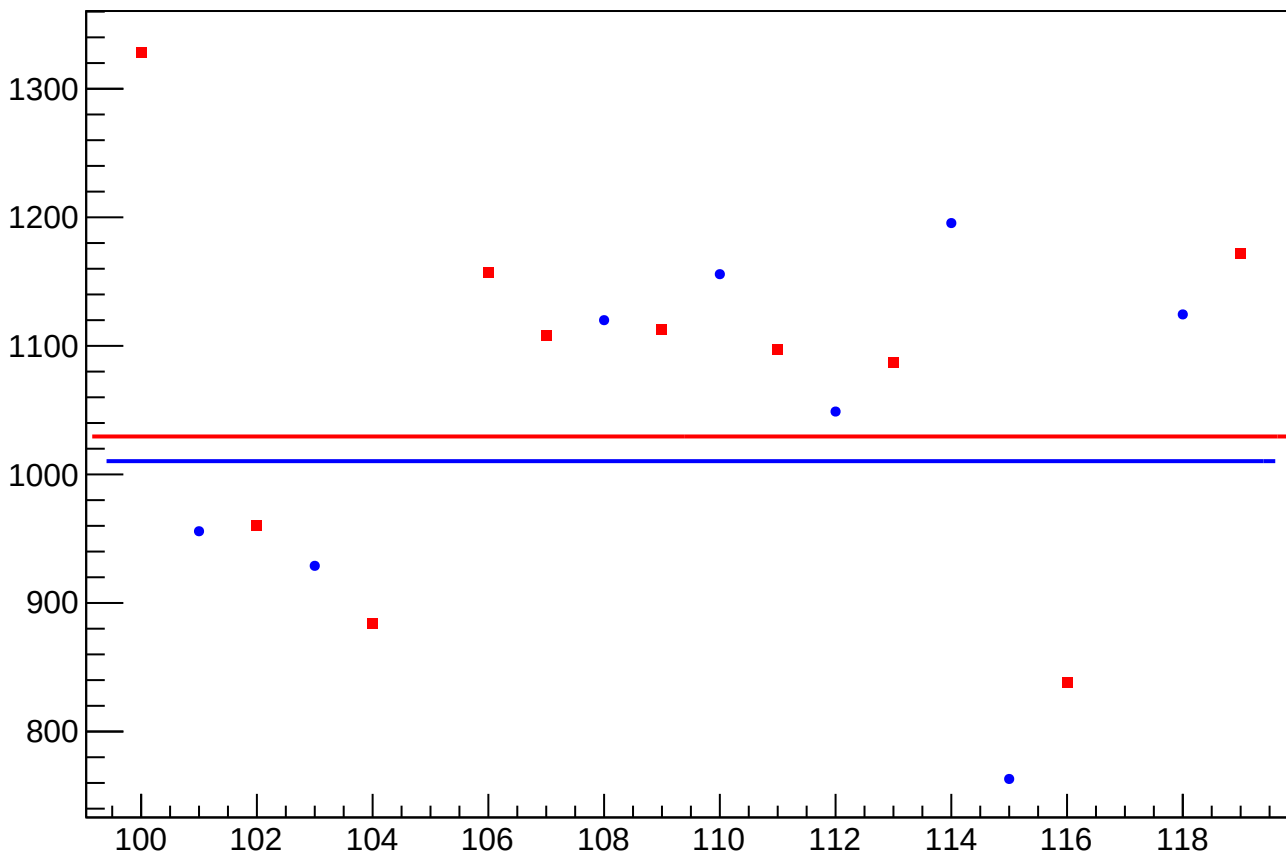
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 146.357+/-381.693  $\chi^2/\text{NDF}$ : 16.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_reg\_correction\_rms vs Slug



Right In: 1010.329+/-0.394  $\chi^2/\text{NDF}$ : 80647.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1029.520+/-0.370  $\chi^2/\text{NDF}$ : 106340.9/9

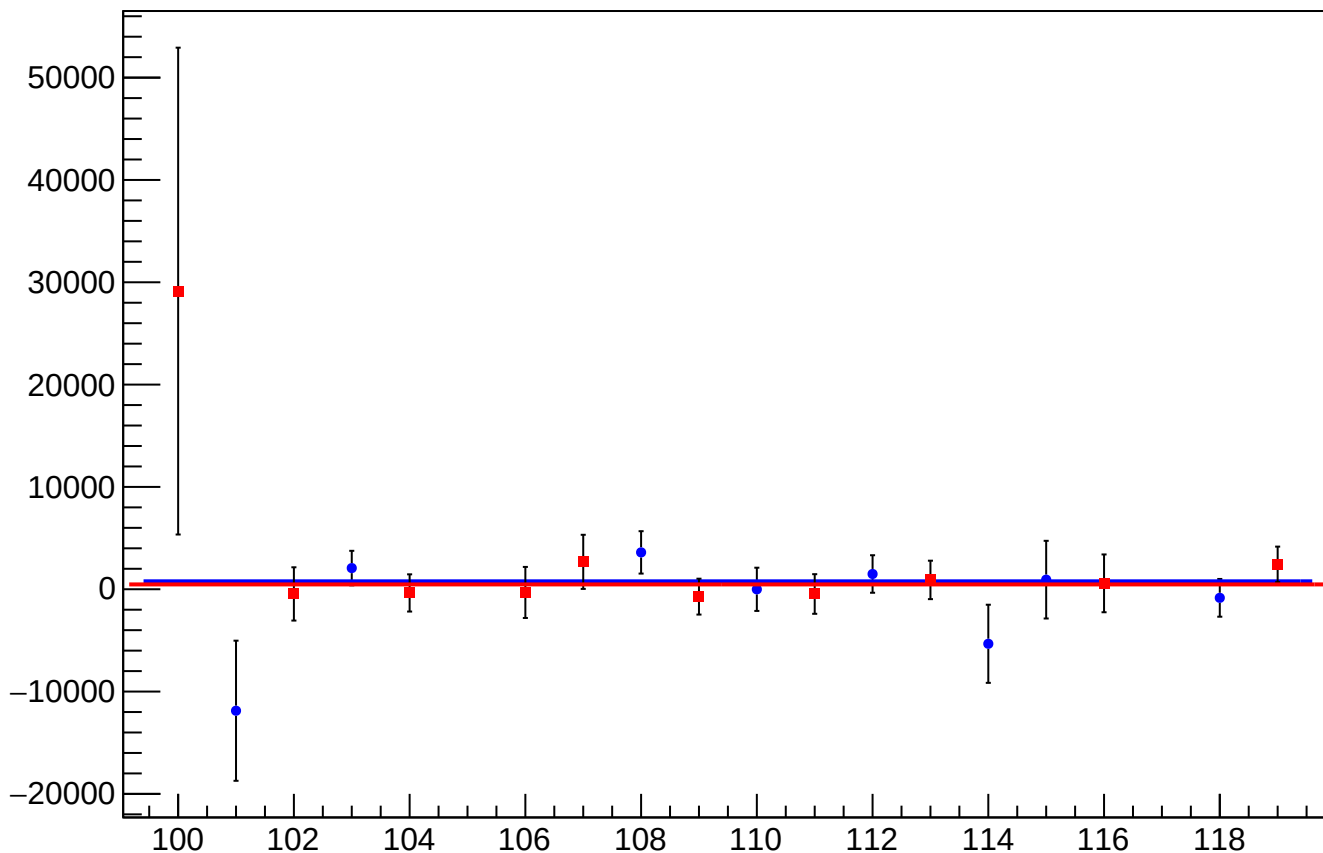
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1020.530+/-0.270  $\chi^2/\text{NDF}$ : 188247.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 774.652 $\pm$ 800.690  $\chi^2$ /NDF: 9.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 471.754 $\pm$ 692.049  $\chi^2$ /NDF: 4.6/9

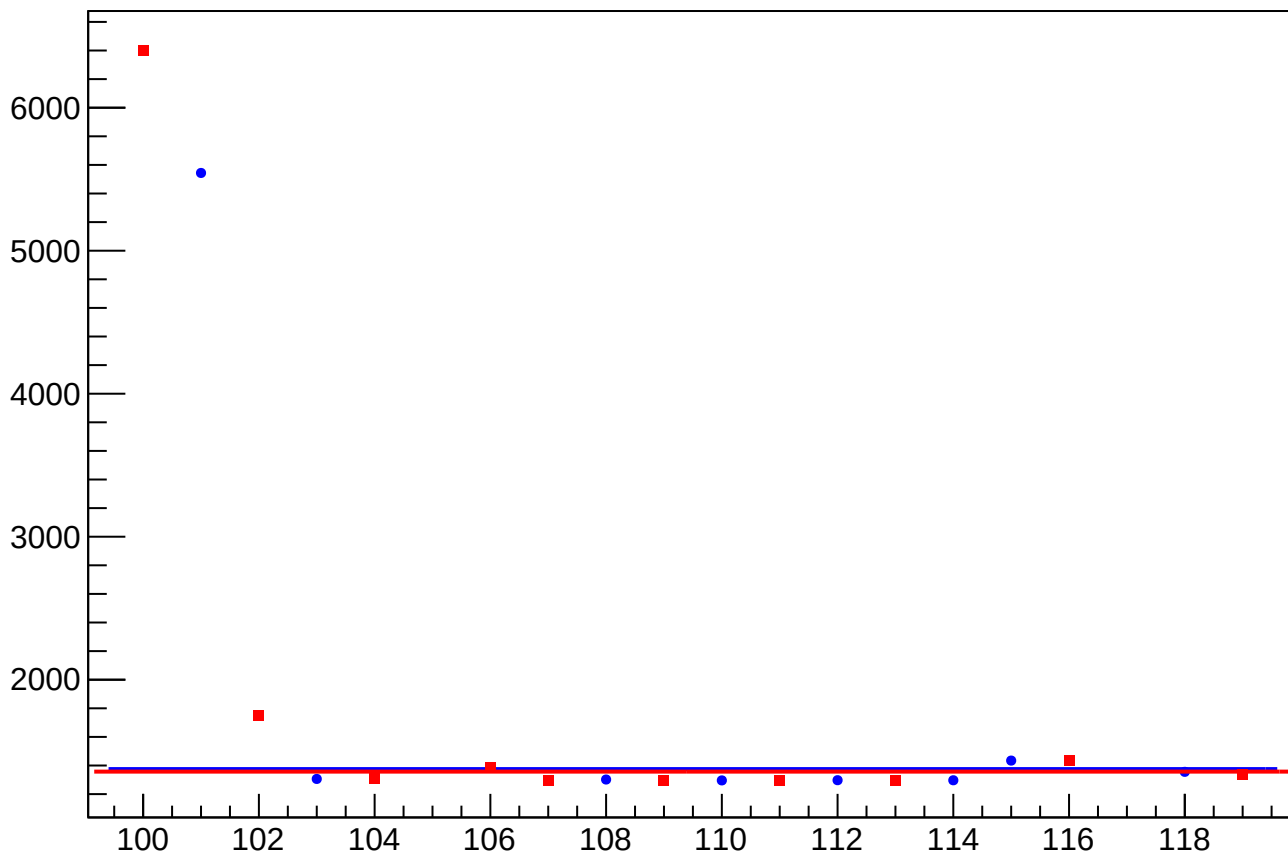
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 601.274 $\pm$ 523.583  $\chi^2$ /NDF: 14.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1374.983+/-0.566  $\chi^2/\text{NDF}$ : 755150.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1357.306+/-0.489  $\chi^2/\text{NDF}$ : 146348.7/9

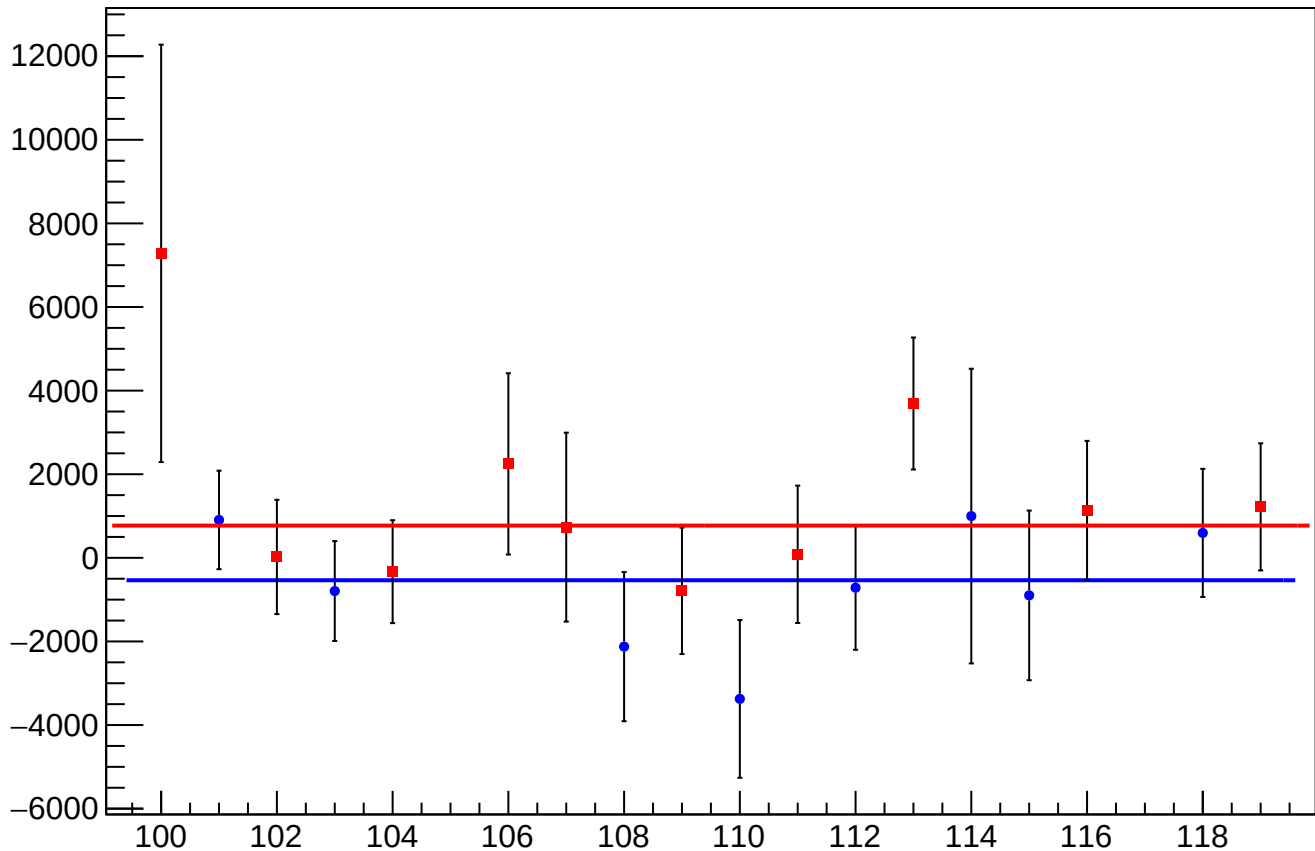
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1364.865+/-0.370  $\chi^2/\text{NDF}$ : 902057.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_cor\_correction\_mean vs Slug



Right In: -536.342 $\pm$ 557.427  $\chi^2$ /NDF: 5.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 771.221 $\pm$ 523.557  $\chi^2$ /NDF: 8.1/9

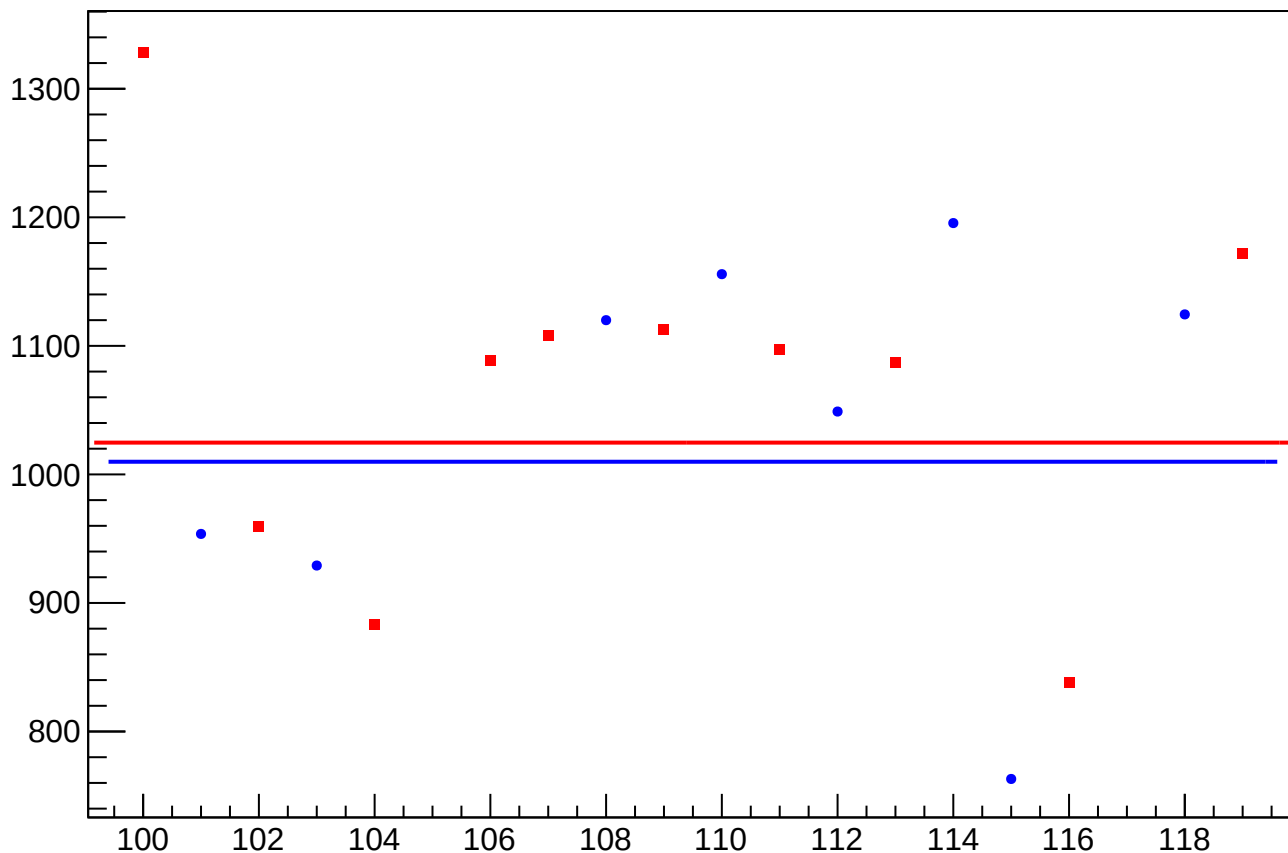
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 158.368 $\pm$ 381.623  $\chi^2$ /NDF: 16.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr1\_dd\_cor\_correction\_rms vs Slug



Right In: 1009.854+/-0.394  $\chi^2/\text{NDF}$ : 80954.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1024.734+/-0.370  $\chi^2/\text{NDF}$ : 100582.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

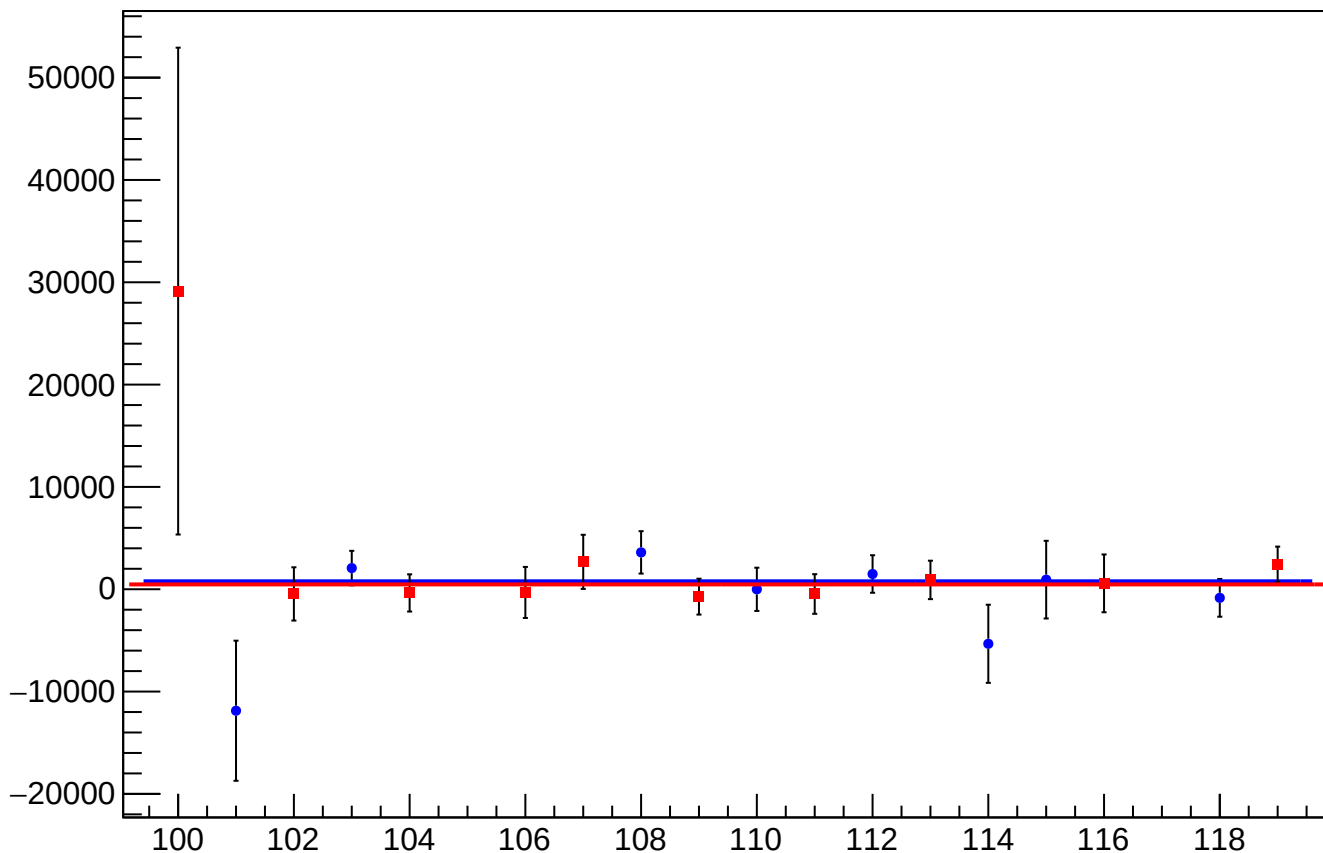
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1017.760+/-0.270  $\chi^2/\text{NDF}$ : 182295.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 774.652+/-800.690  $\chi^2/\text{NDF}$ : 9.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 471.754+/-692.049  $\chi^2/\text{NDF}$ : 4.6/9

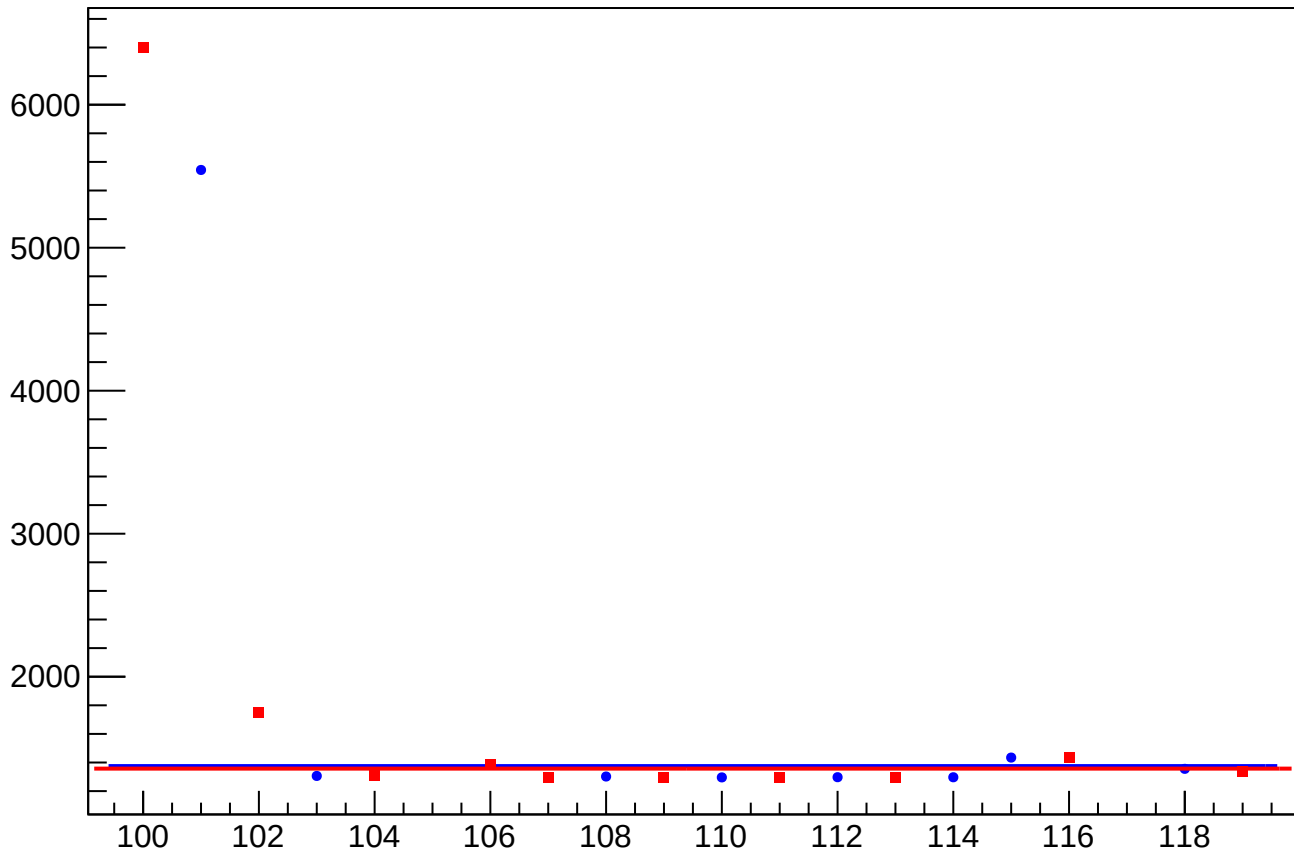
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 601.274+/-523.583  $\chi^2/\text{NDF}$ : 14.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1374.983+/-0.566  $\chi^2/\text{NDF}$ : 755150.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1357.306+/-0.489  $\chi^2/\text{NDF}$ : 146348.7/9

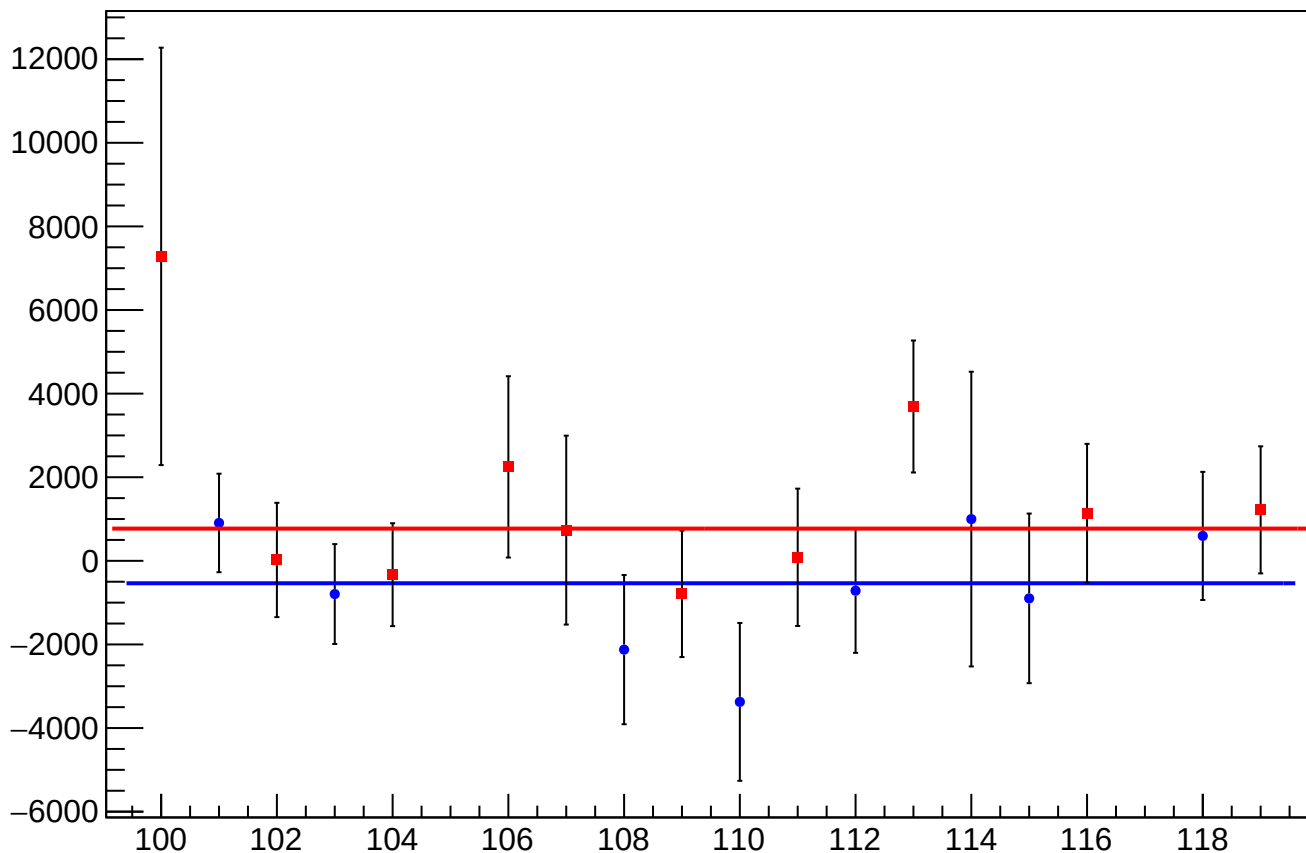
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1364.865+/-0.370  $\chi^2/\text{NDF}$ : 902057.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -536.342 $\pm$ 557.427  $\chi^2$ /NDF: 5.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 771.221 $\pm$ 523.557  $\chi^2$ /NDF: 8.1/9

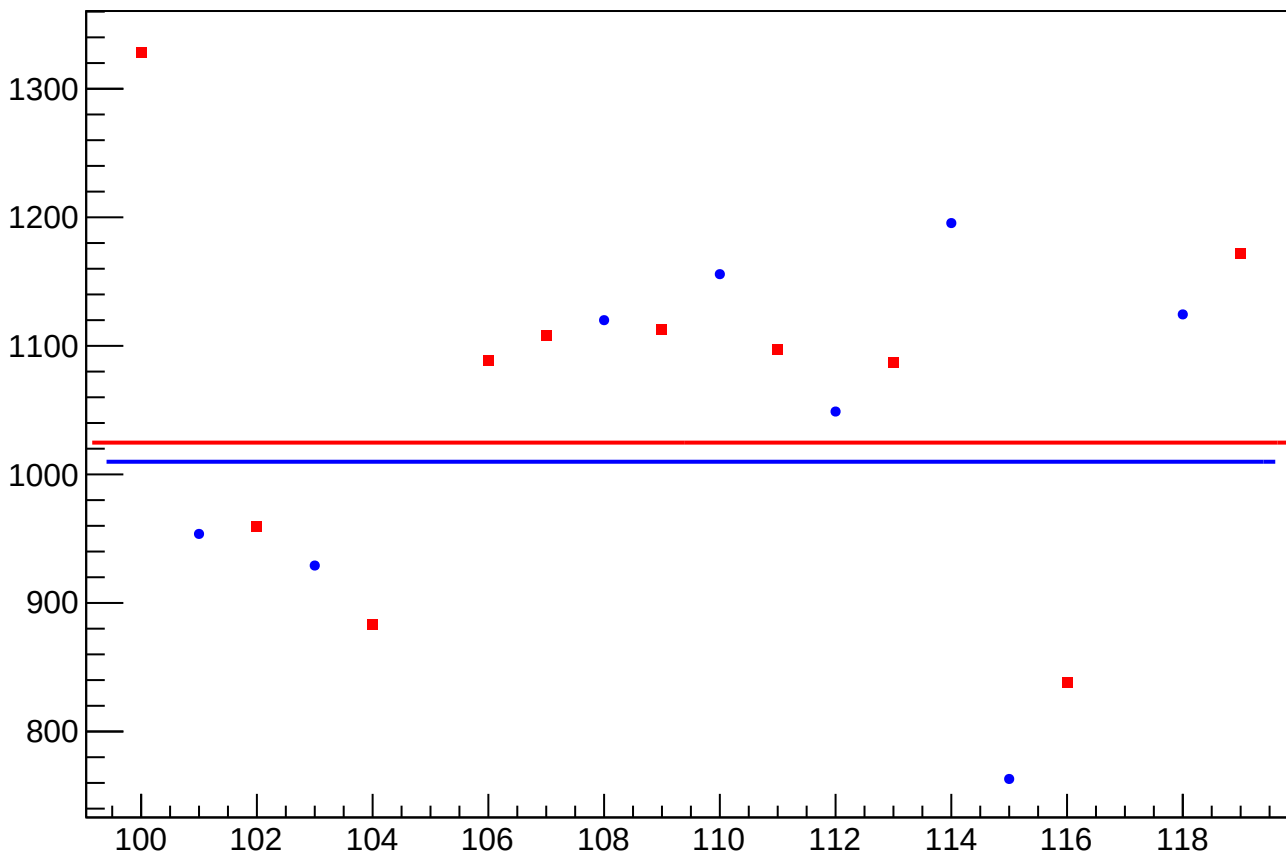
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 158.368 $\pm$ 381.623  $\chi^2$ /NDF: 16.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1009.854+/-0.394  $\chi^2/\text{NDF}$ : 80954.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1024.734+/-0.370  $\chi^2/\text{NDF}$ : 100582.8/9

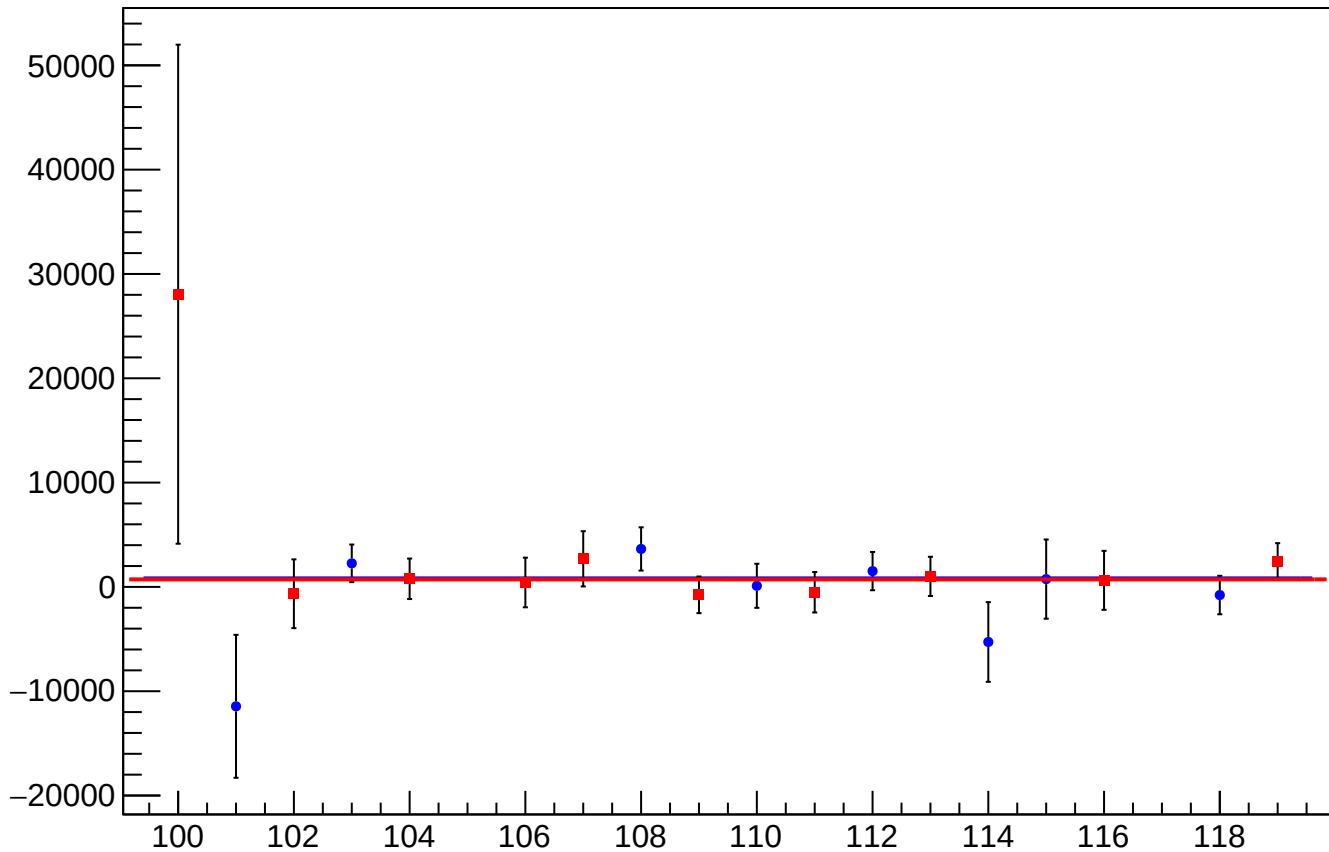
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1017.760+/-0.270  $\chi^2/\text{NDF}$ : 182295.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 814.416+/-812.528  $\chi^2/\text{NDF}$ : 9.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 720.612+/-705.381  $\chi^2/\text{NDF}$ : 4.2/9

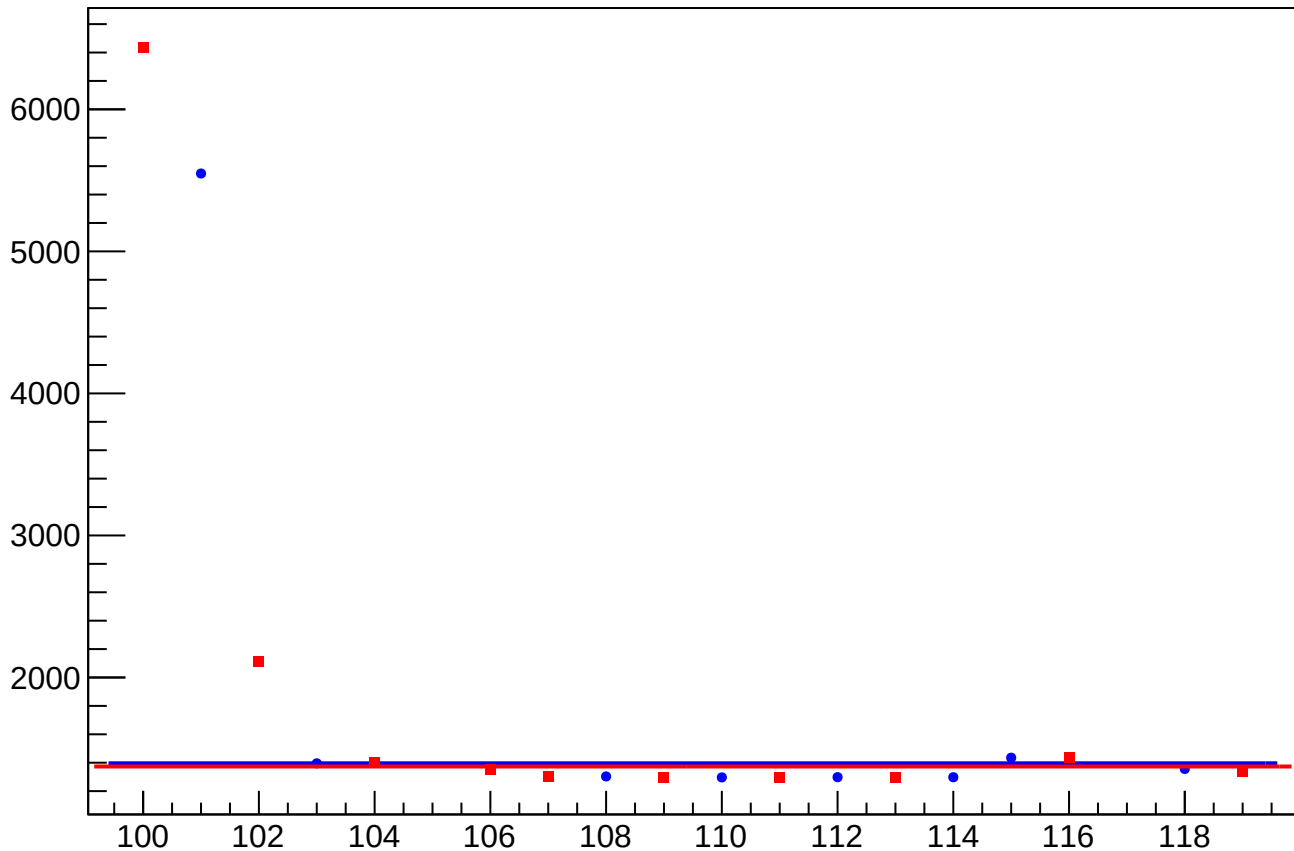
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 760.926+/-532.662  $\chi^2/\text{NDF}$ : 13.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1395.842 $\pm$ 0.575  $\chi^2$ /NDF: 750888.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1373.289 $\pm$ 0.499  $\chi^2$ /NDF: 203295.9/9

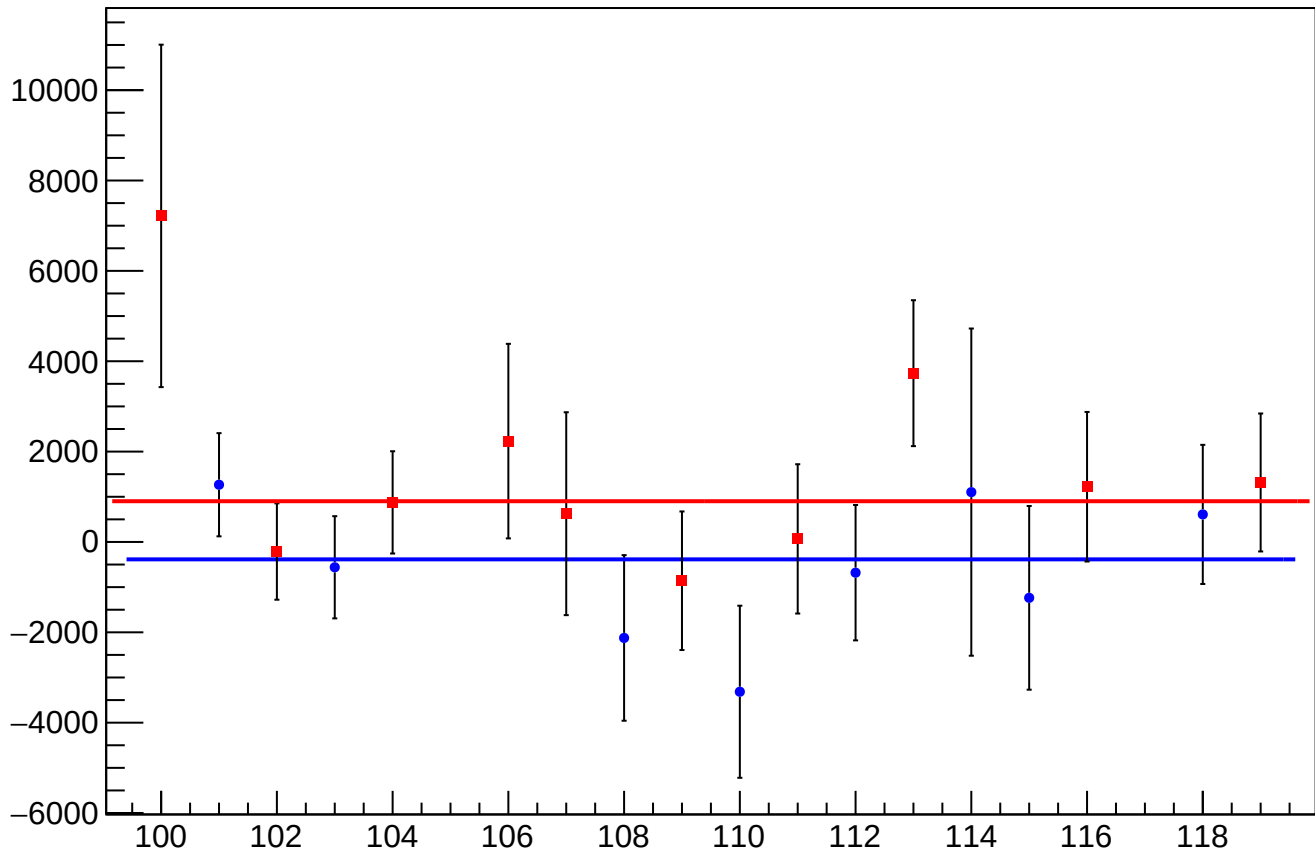
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1382.981 $\pm$ 0.377  $\chi^2$ /NDF: 955063.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr1\_dd\_dit\_correction\_mean vs Slug



Right In: -385.359+/-549.860  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 901.778+/-493.080  $\chi^2/\text{NDF}$ : 9.0/9

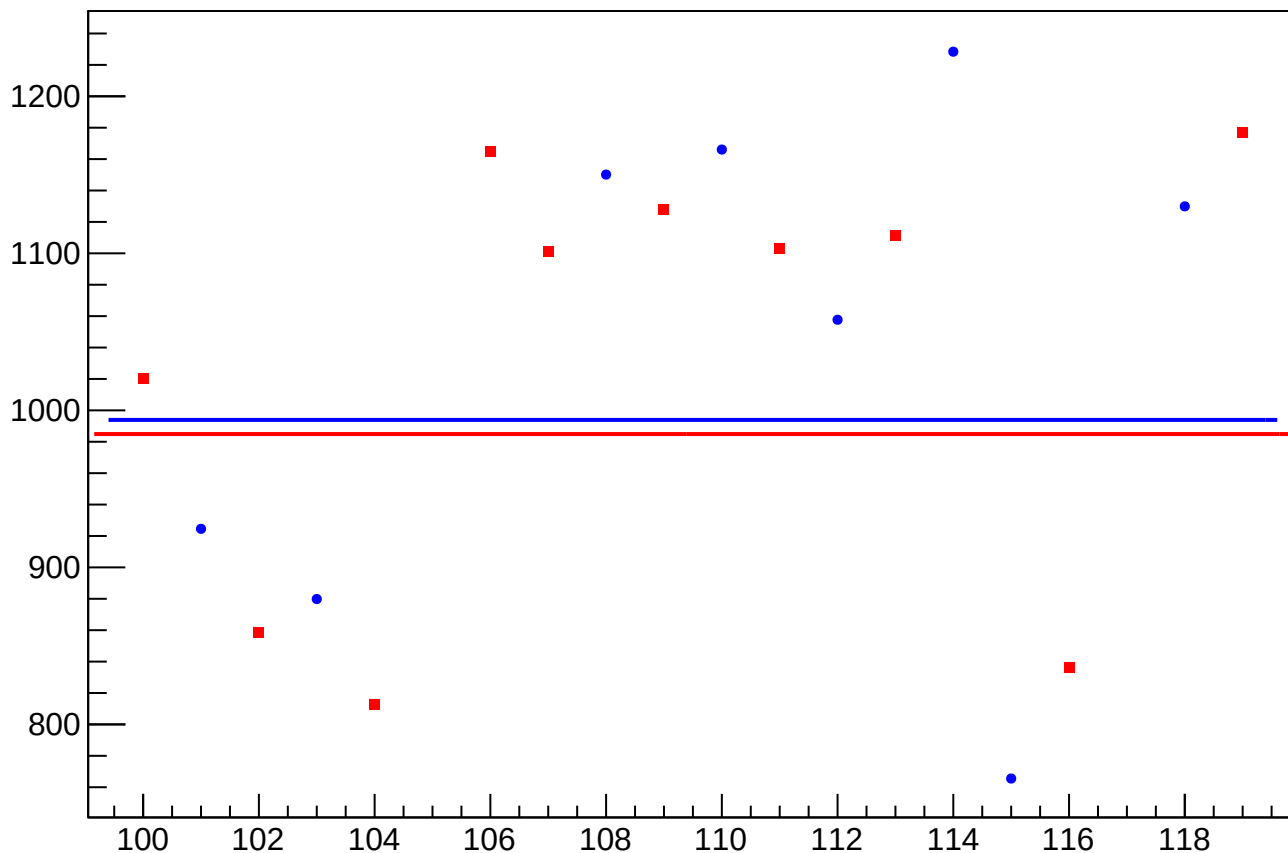
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 328.078+/-367.098  $\chi^2/\text{NDF}$ : 18.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_dit\_correction\_rms vs Slug



Right In: 993.915+/-0.389  $\chi^2/\text{NDF}$ : 111457.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 984.910+/-0.349  $\chi^2/\text{NDF}$ : 181447.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

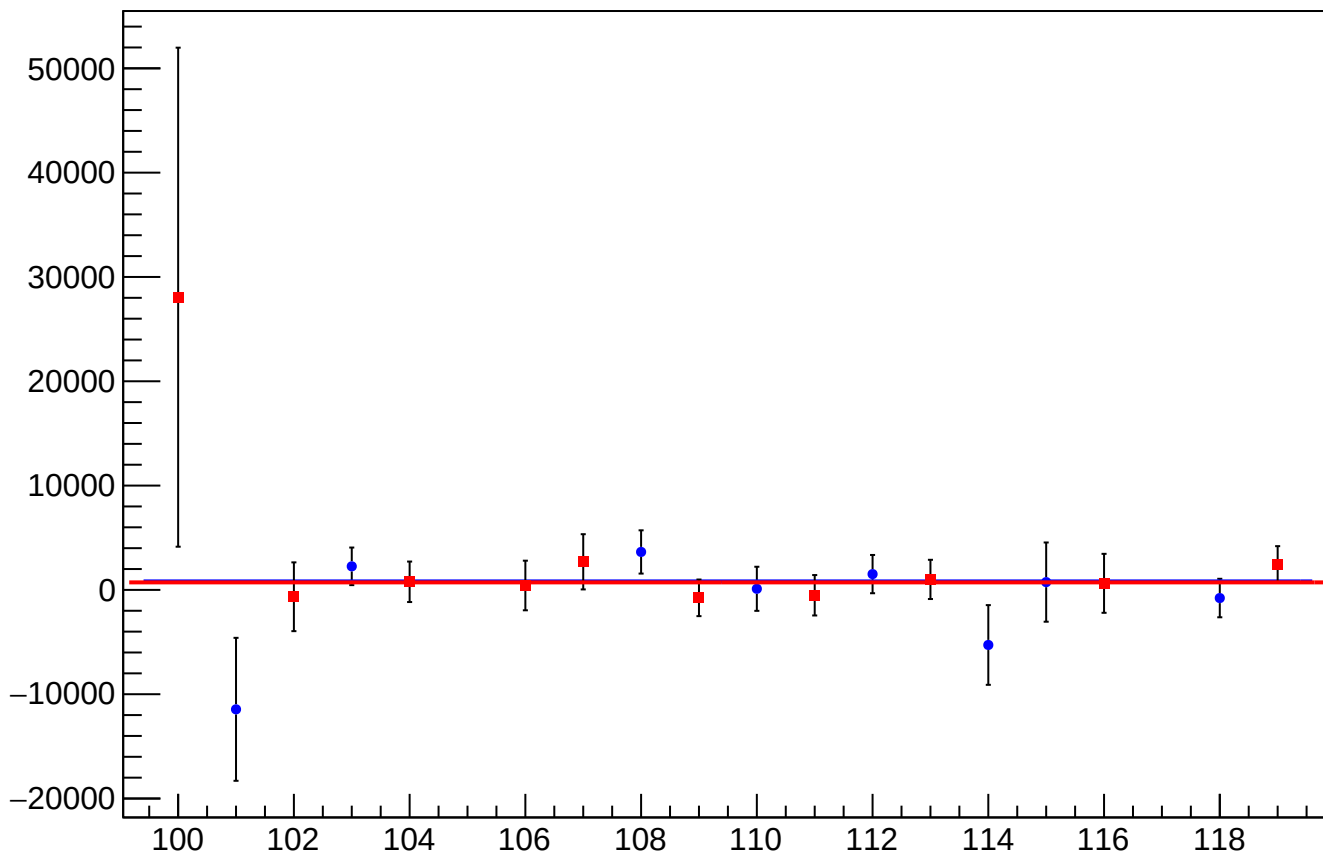
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 988.924+/-0.260  $\chi^2/\text{NDF}$ : 293202.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 814.418+/-812.528  $\chi^2/\text{NDF}$ : 9.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 720.609+/-705.381  $\chi^2/\text{NDF}$ : 4.2/9

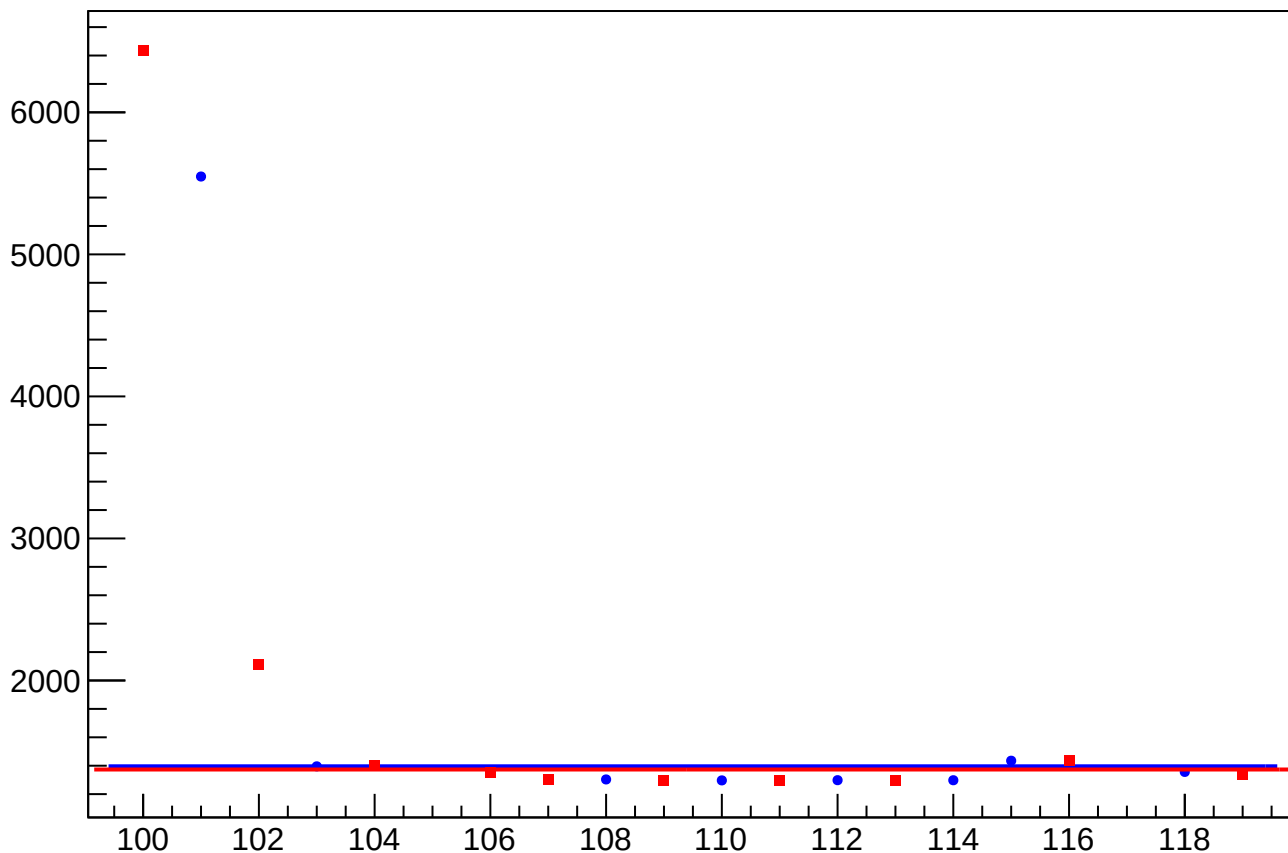
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 760.924+/-532.662  $\chi^2/\text{NDF}$ : 13.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1395.842 $\pm$ 0.575  $\chi^2$ /NDF: 750888.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1373.289 $\pm$ 0.499  $\chi^2$ /NDF: 203295.8/9

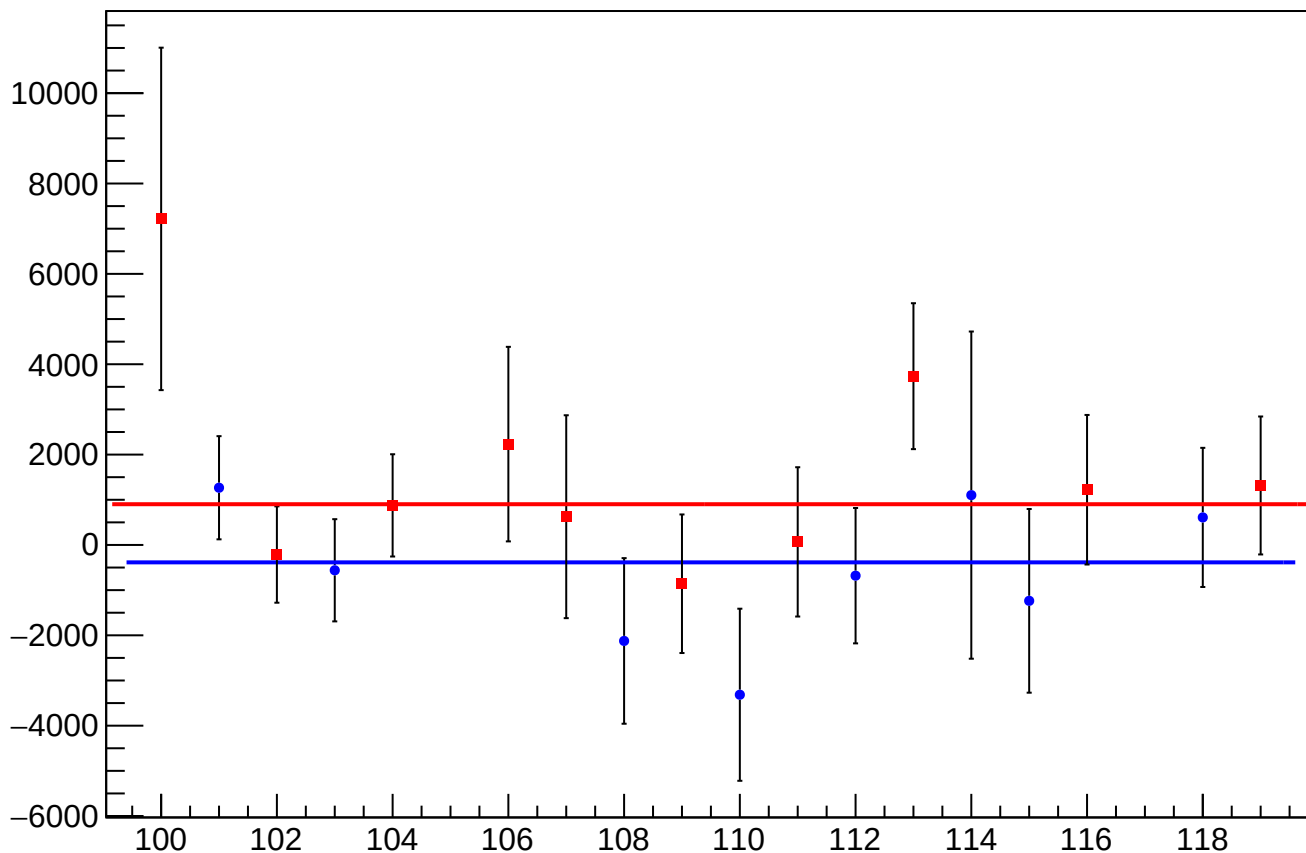
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1382.981 $\pm$ 0.377  $\chi^2$ /NDF: 955063.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -385.358+/-549.859  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 901.778+/-493.079  $\chi^2/\text{NDF}$ : 9.0/9

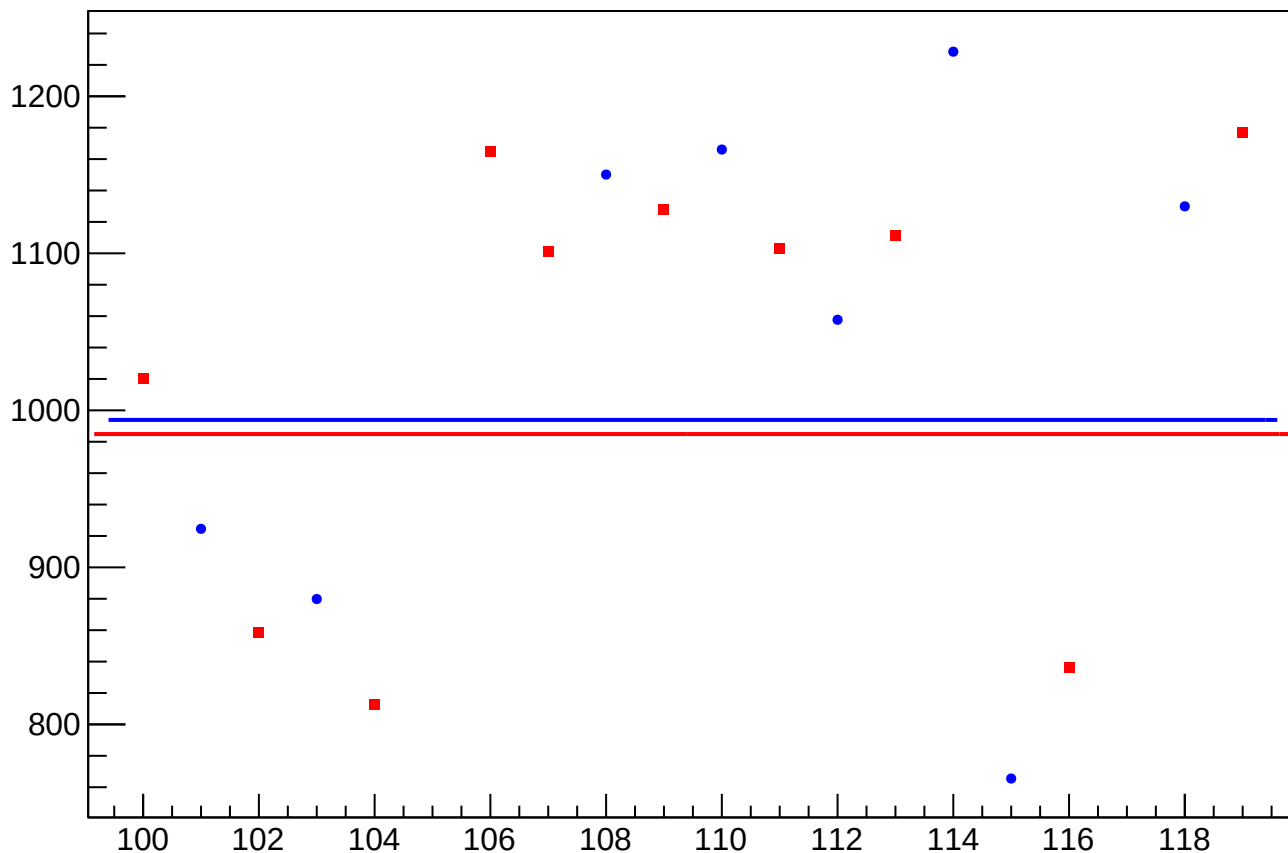
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 328.077+/-367.098  $\chi^2/\text{NDF}$ : 18.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 993.913+/-0.389  $\chi^2/\text{NDF}$ : 111455.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 984.910+/-0.349  $\chi^2/\text{NDF}$ : 181443.5/9

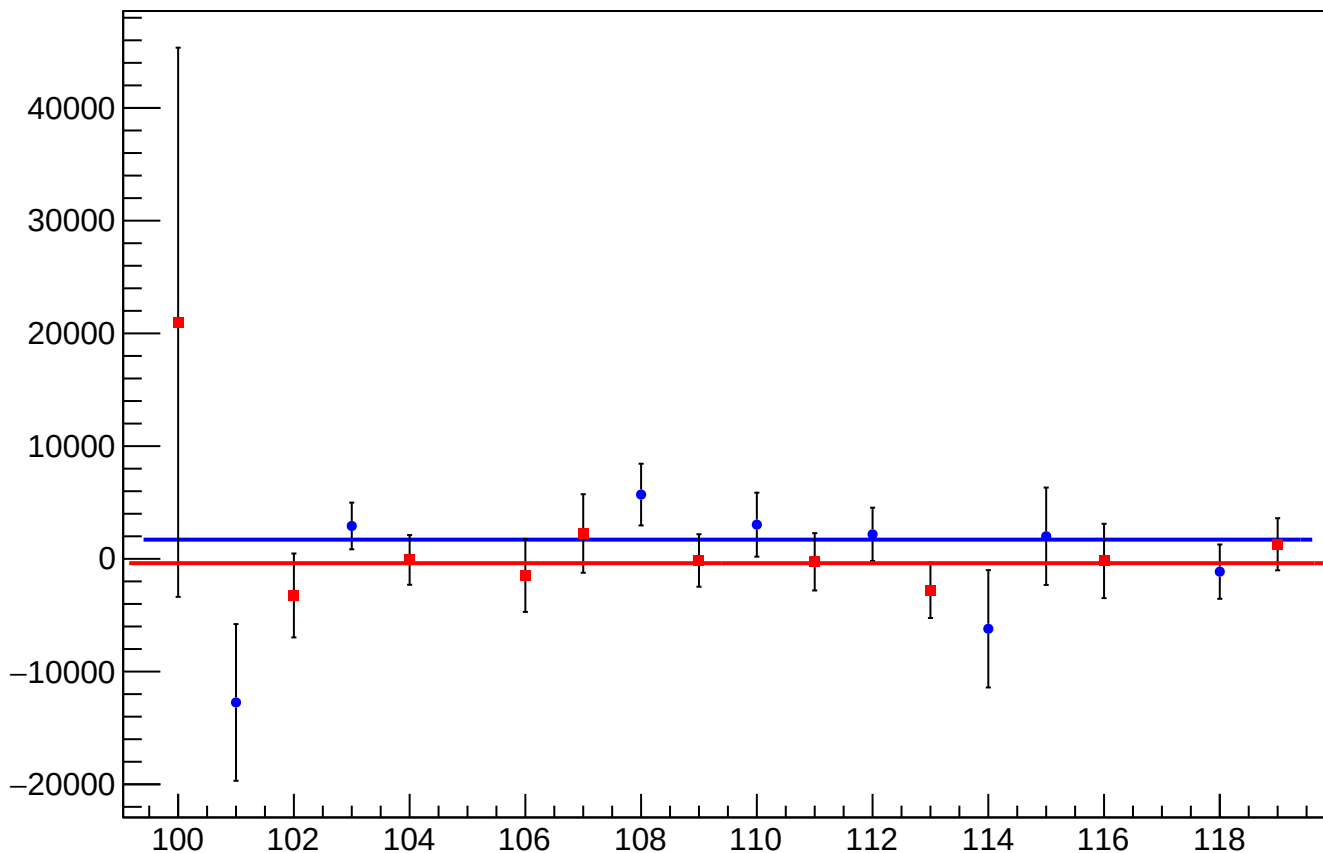
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 988.923+/-0.260  $\chi^2/\text{NDF}$ : 293196.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 1705.344+/-1024.373  $\chi^2/\text{NDF}$ : 10.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -384.492+/-897.615  $\chi^2/\text{NDF}$ : 3.6/9

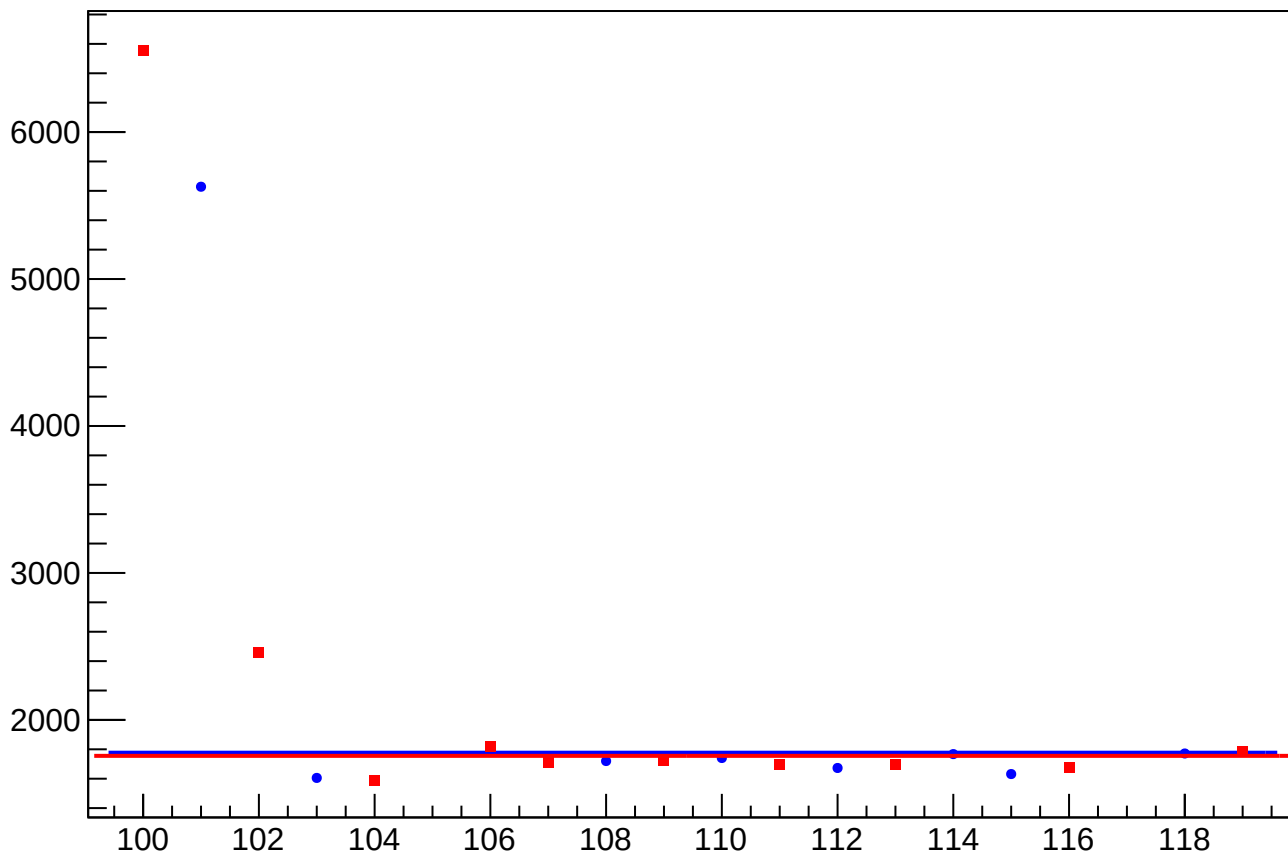
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 523.195+/-675.103  $\chi^2/\text{NDF}$ : 16.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1776.952+/-0.724  $\chi^2/\text{NDF}$ : 635031.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1755.461+/-0.635  $\chi^2/\text{NDF}$ : 165577.0/9

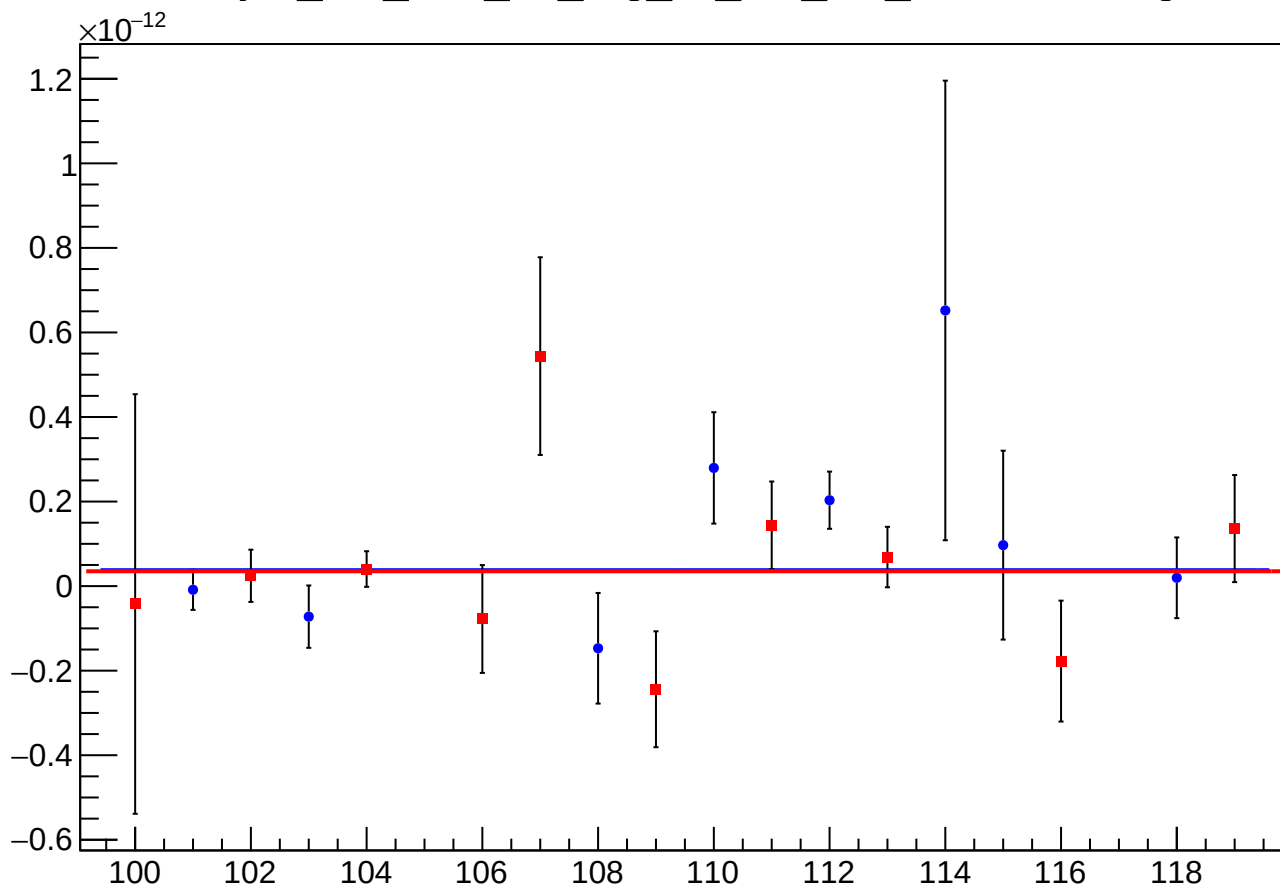
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1764.795+/-0.477  $\chi^2/\text{NDF}$ : 801106.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.9/9

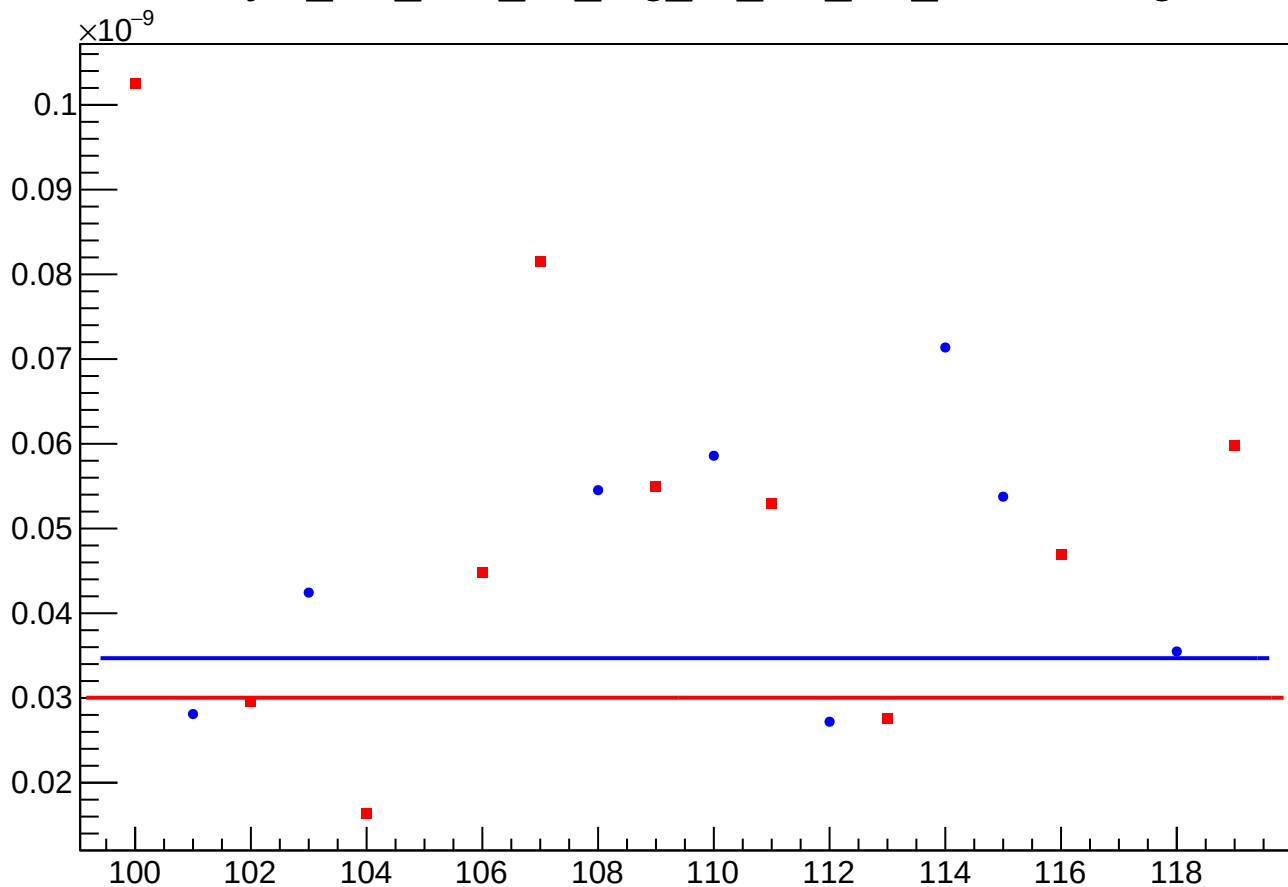
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 29.8/17

- sign 0.000+/-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  $\chi^2/\text{NDF}$ : 220616.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 683175.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

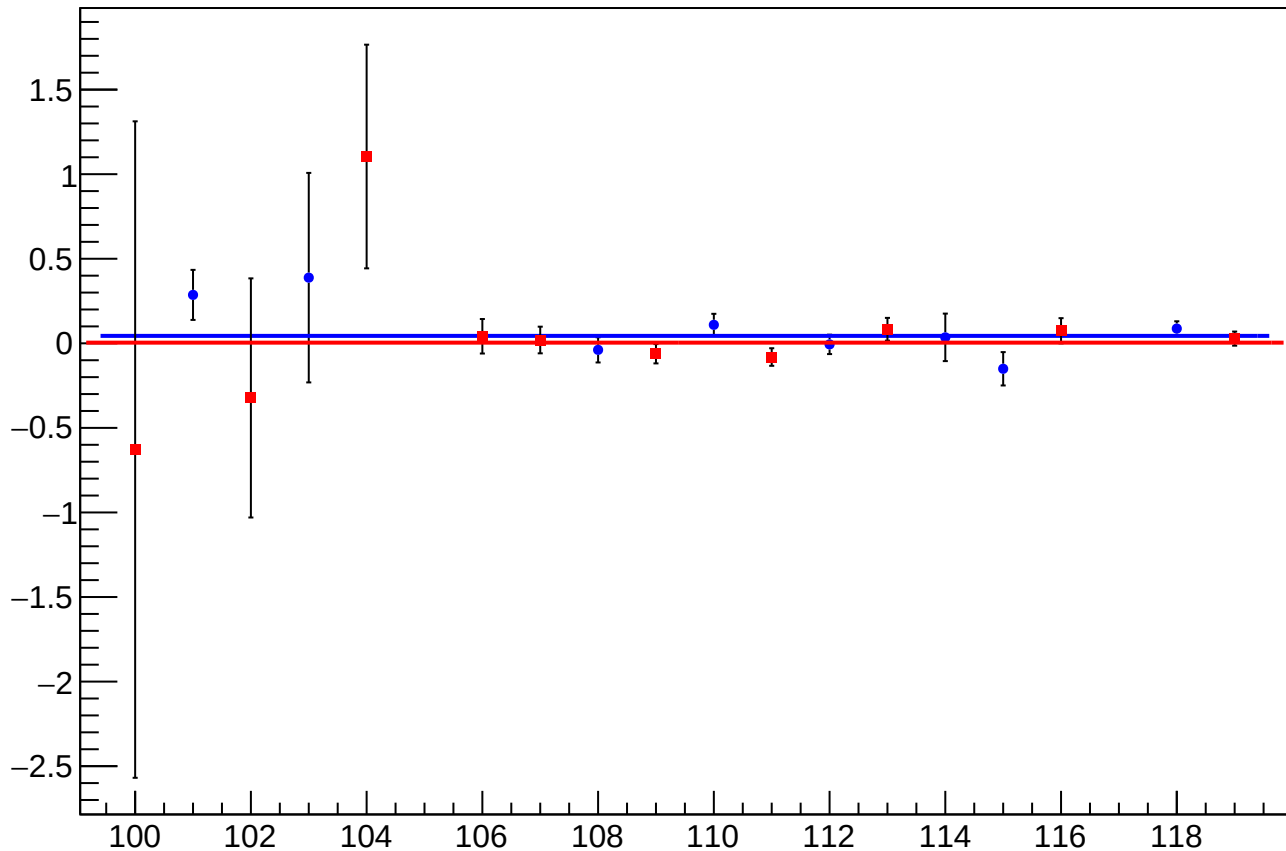
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 930245.7/17

- 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: 0.044+/-0.026  $\chi^2/\text{NDF}$ : 10.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.023  $\chi^2/\text{NDF}$ : 9.9/9

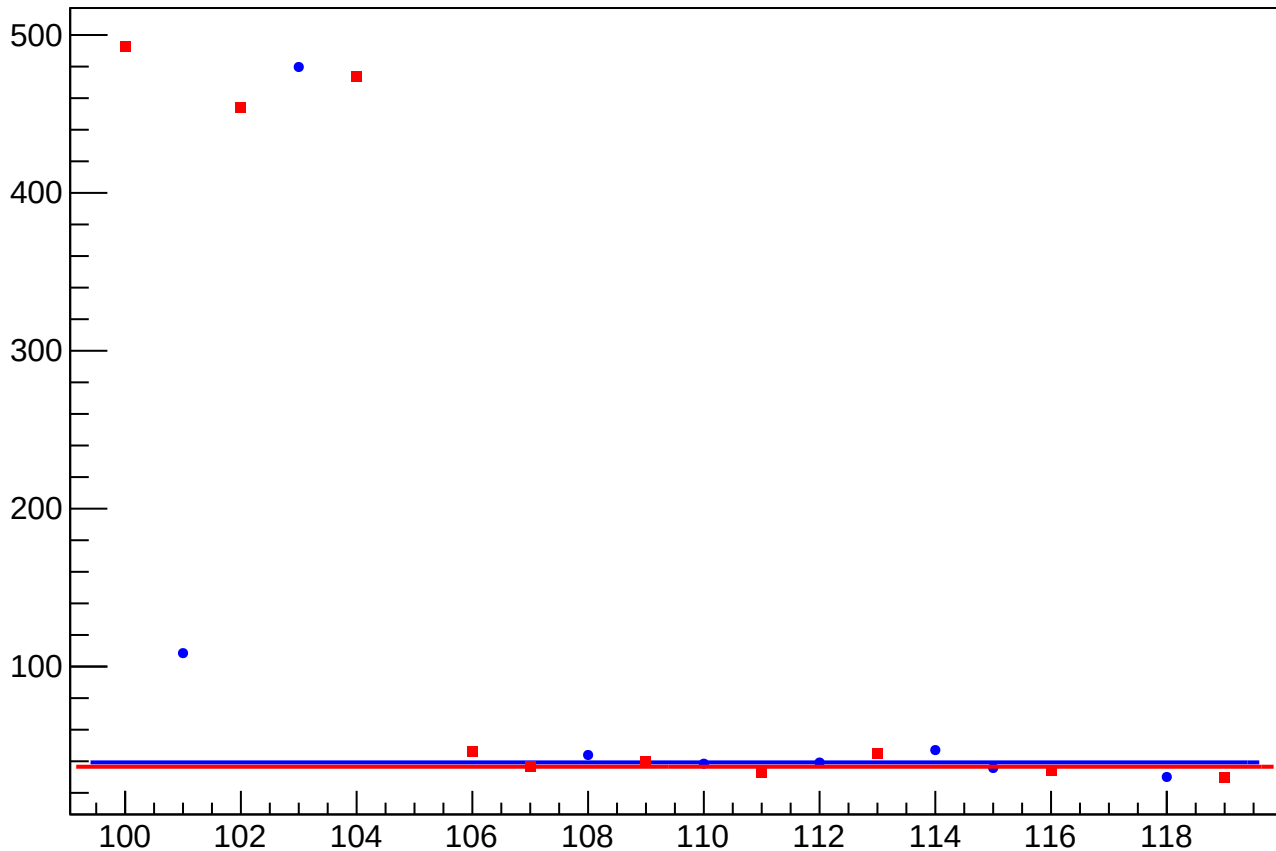
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.021+/-0.017  $\chi^2/\text{NDF}$ : 22.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 39.298+/-0.019  $\chi^2/\text{NDF}$ : 1557556.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.547+/-0.016  $\chi^2/\text{NDF}$ : 1807142.3/9

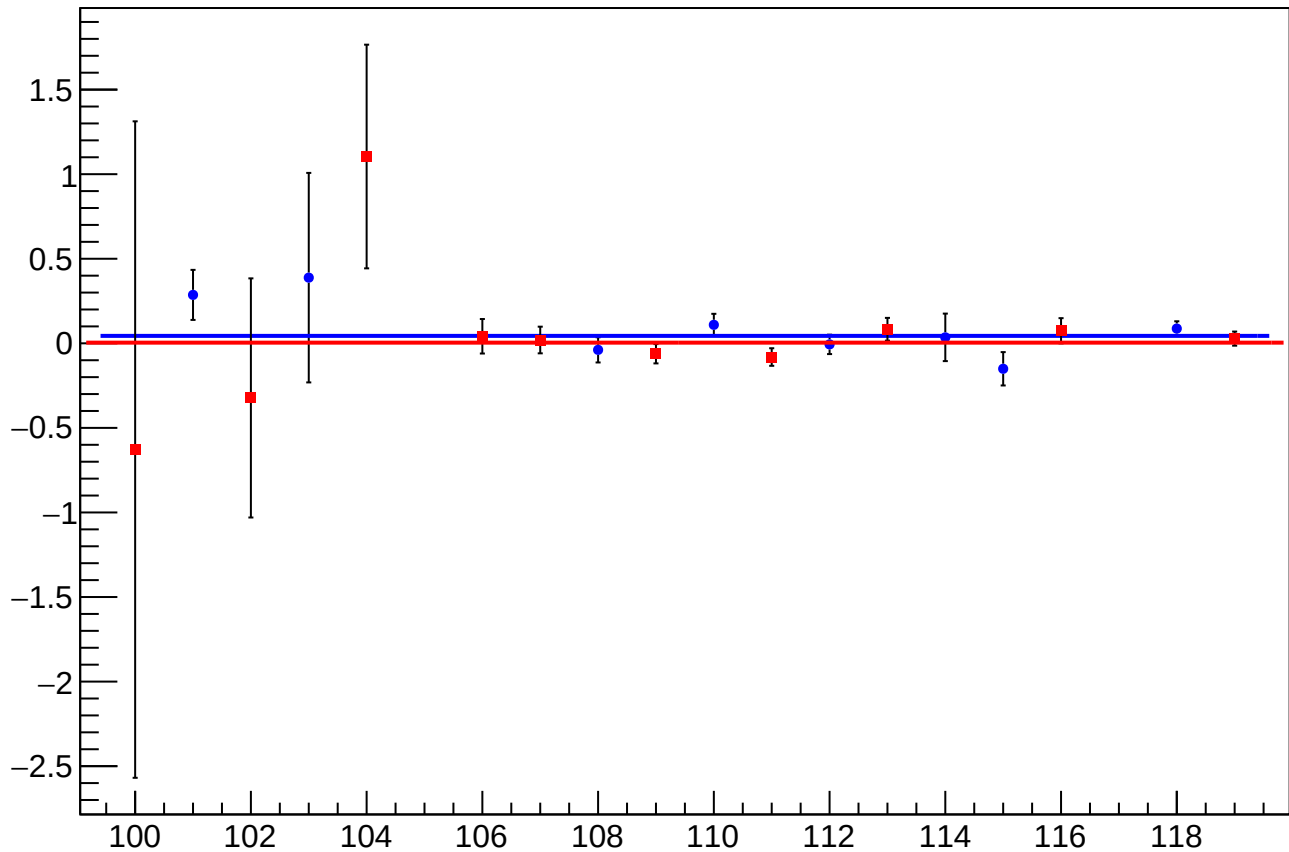
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.737+/-0.012  $\chi^2/\text{NDF}$ : 3377235.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.044+/-0.026  $\chi^2/\text{NDF}$ : 10.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.023  $\chi^2/\text{NDF}$ : 9.9/9

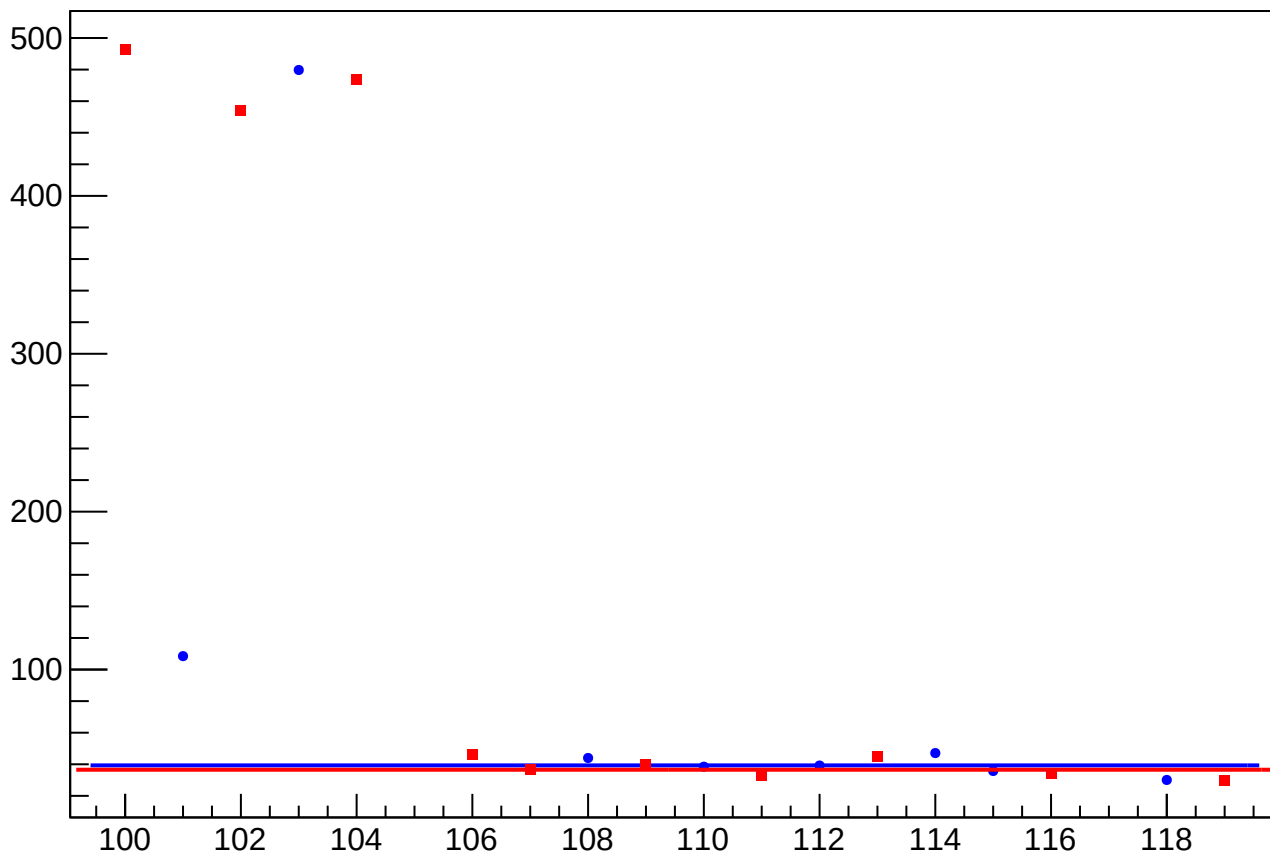
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.021+/-0.017  $\chi^2/\text{NDF}$ : 22.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 39.298+/-0.019  $\chi^2/\text{NDF}$ : 1557556.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.547+/-0.016  $\chi^2/\text{NDF}$ : 1807142.3/9

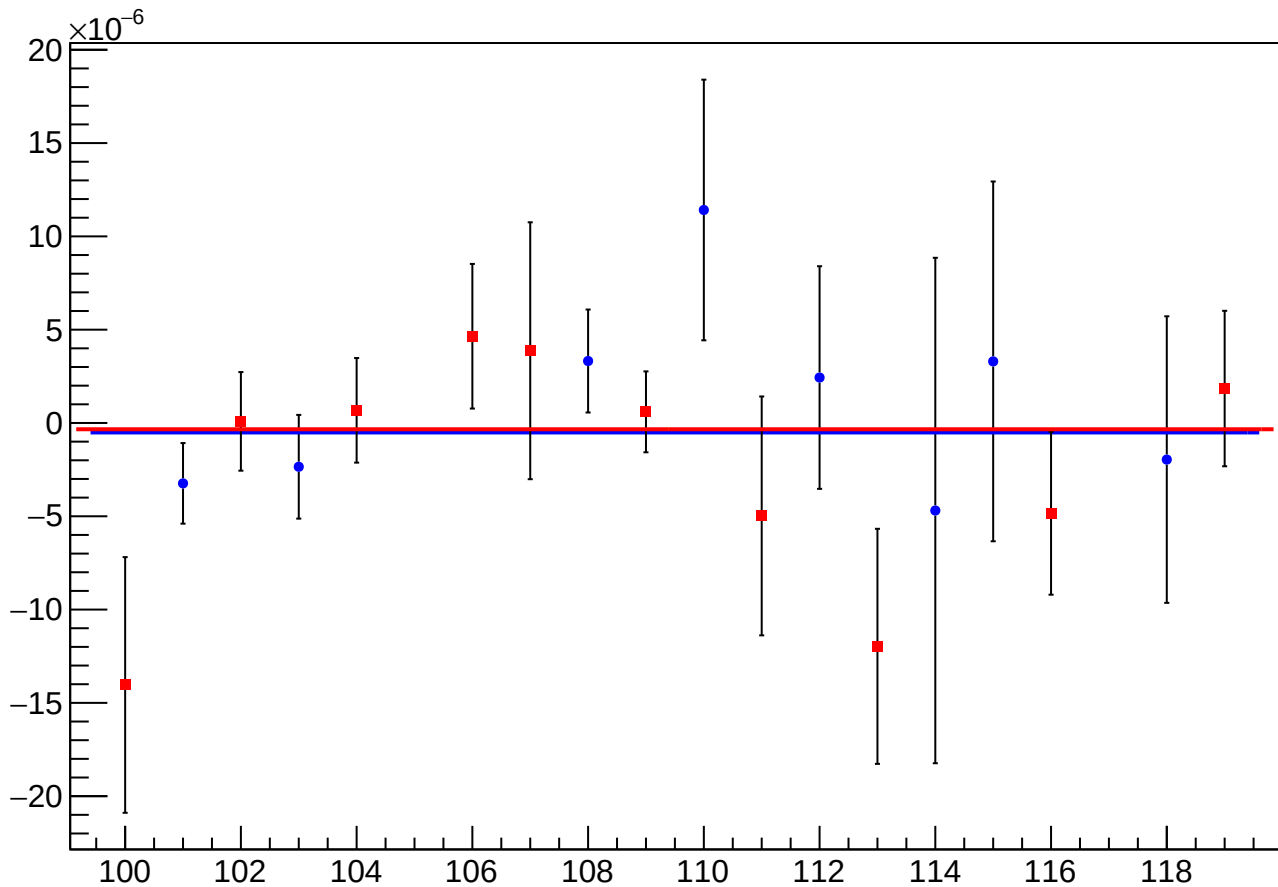
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.737+/-0.012  $\chi^2/\text{NDF}$ : 3377235.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.6/9

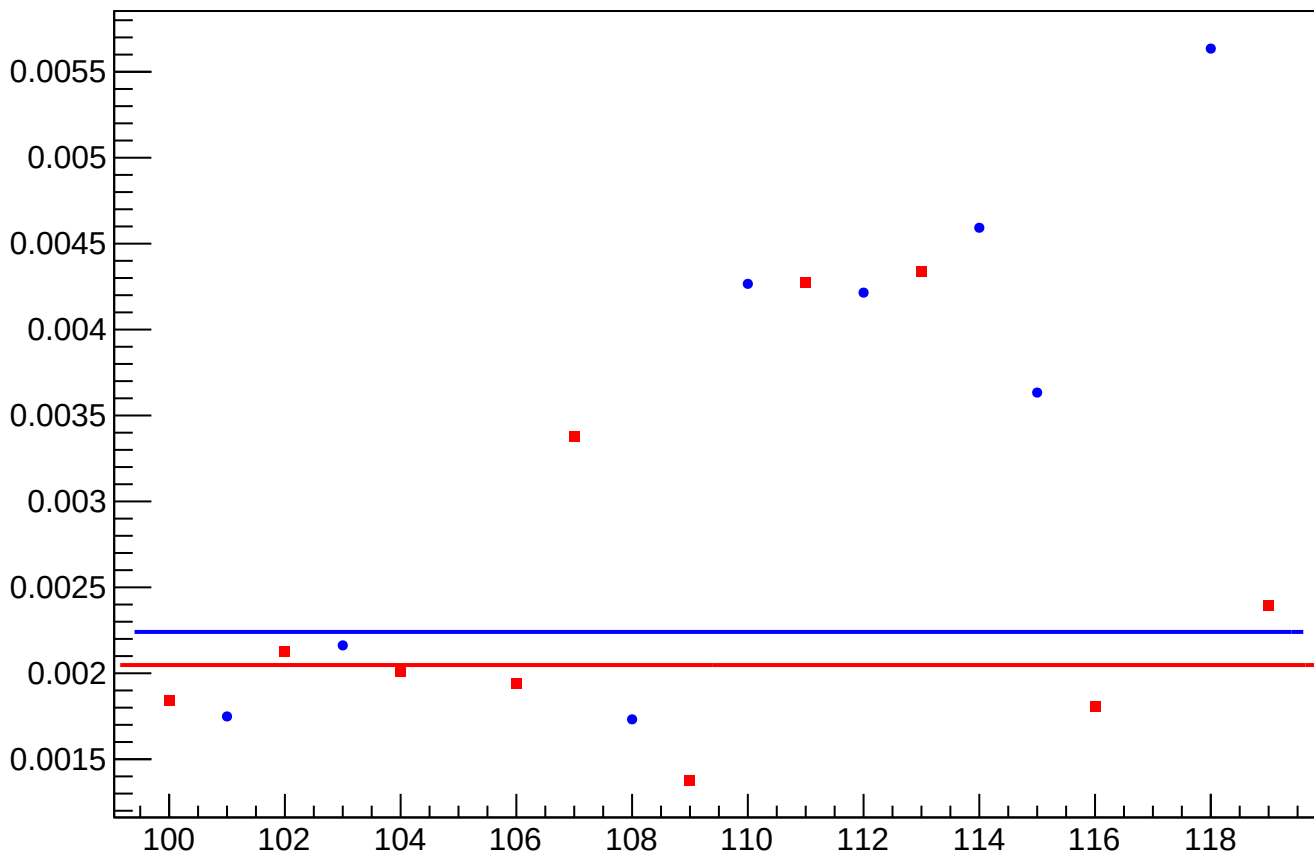
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.1/17

- 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  $\chi^2/\text{NDF}$ : 1053406.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 798699.5/9

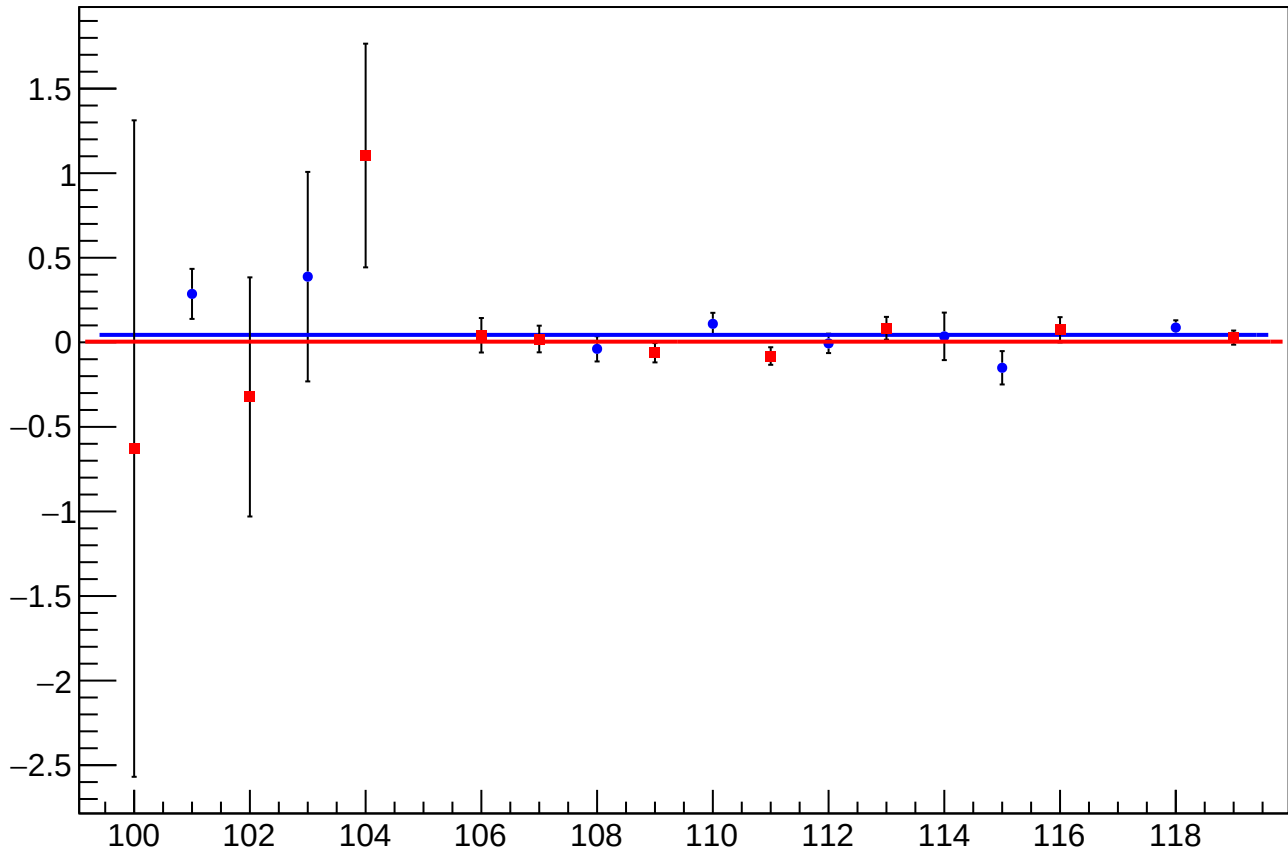
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1875864.5/17

- 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: 0.044 $\pm$ 0.026  $\chi^2$ /NDF: 10.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.004 $\pm$ 0.023  $\chi^2$ /NDF: 9.9/9

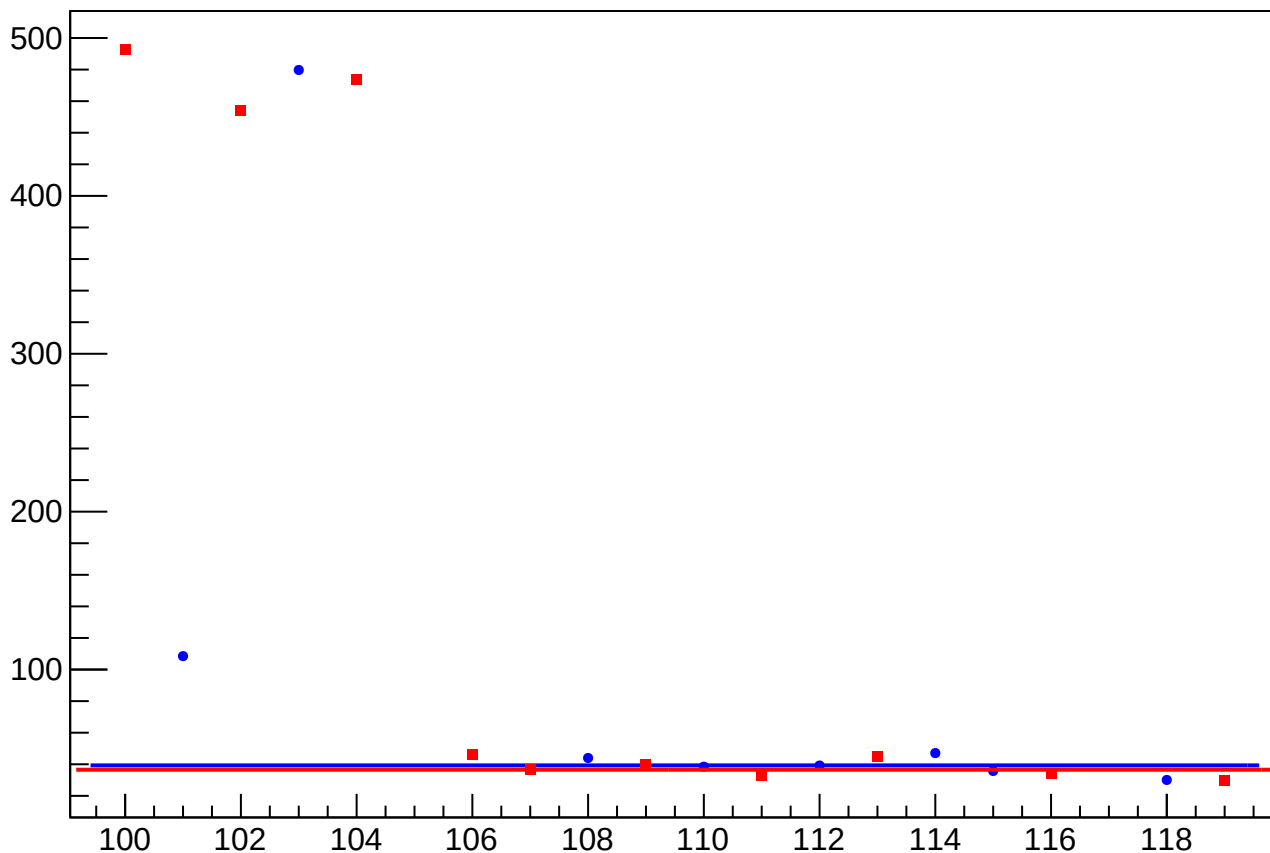
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.021 $\pm$ 0.017  $\chi^2$ /NDF: 22.1/17

- 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: 39.297+/-0.019  $\chi^2/\text{NDF}$ : 1557561.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.545+/-0.016  $\chi^2/\text{NDF}$ : 1807208.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

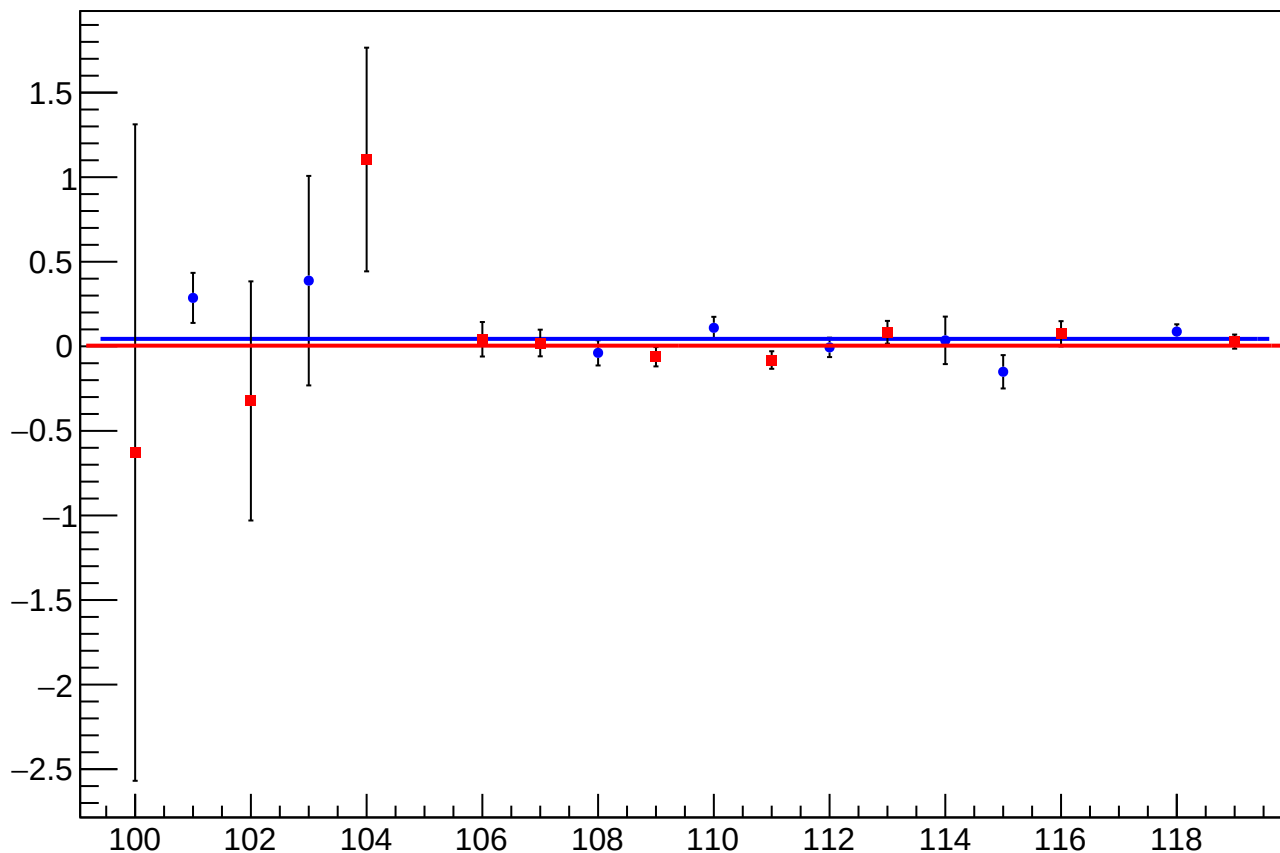
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.736+/-0.012  $\chi^2/\text{NDF}$ : 3377320.2/17

- 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: 0.044+/-0.026  $\chi^2/\text{NDF}$ : 10.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.023  $\chi^2/\text{NDF}$ : 9.9/9

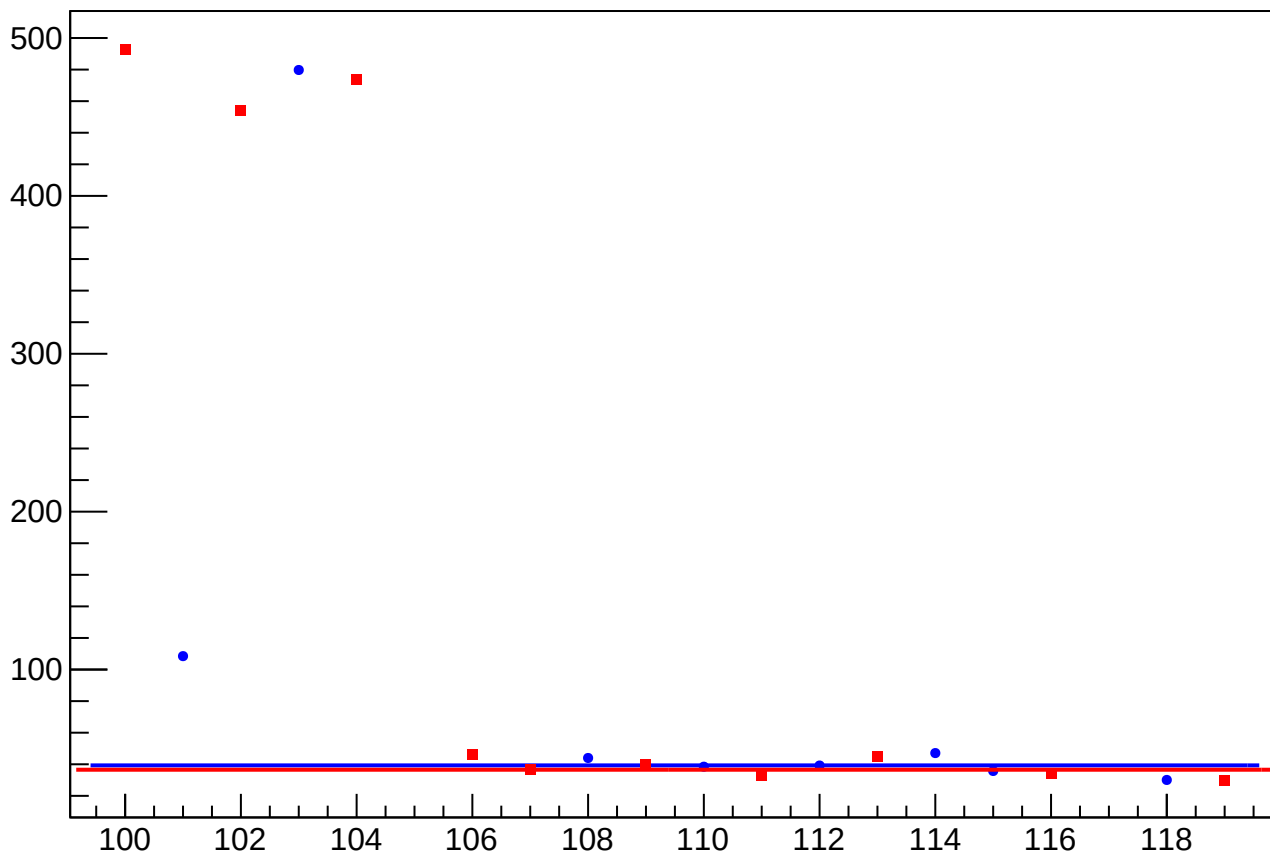
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.021+/-0.017  $\chi^2/\text{NDF}$ : 22.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 39.297 $\pm$ 0.019  $\chi^2$ /NDF: 1557561.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.545 $\pm$ 0.016  $\chi^2$ /NDF: 1807208.2/9

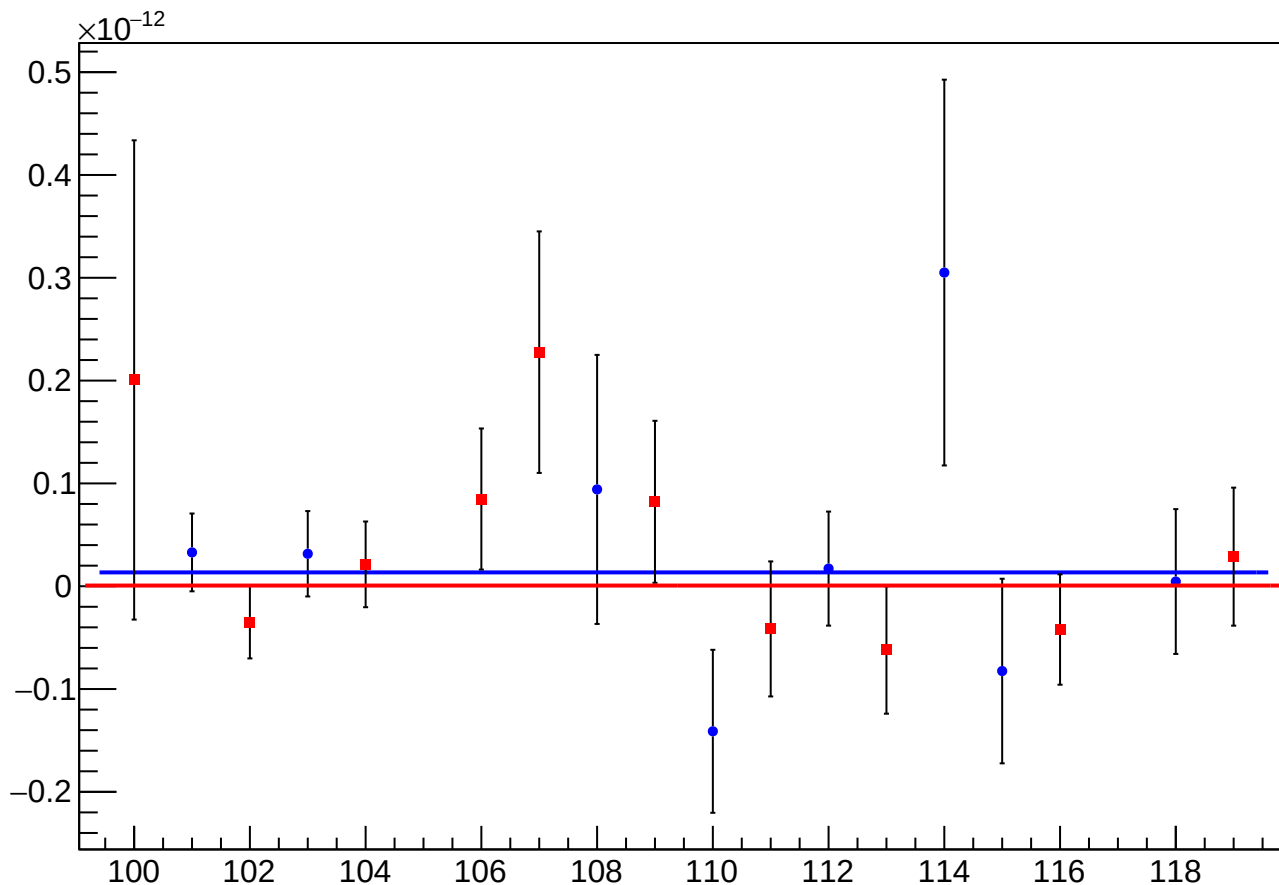
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.736 $\pm$ 0.012  $\chi^2$ /NDF: 3377320.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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: 8.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.5/9

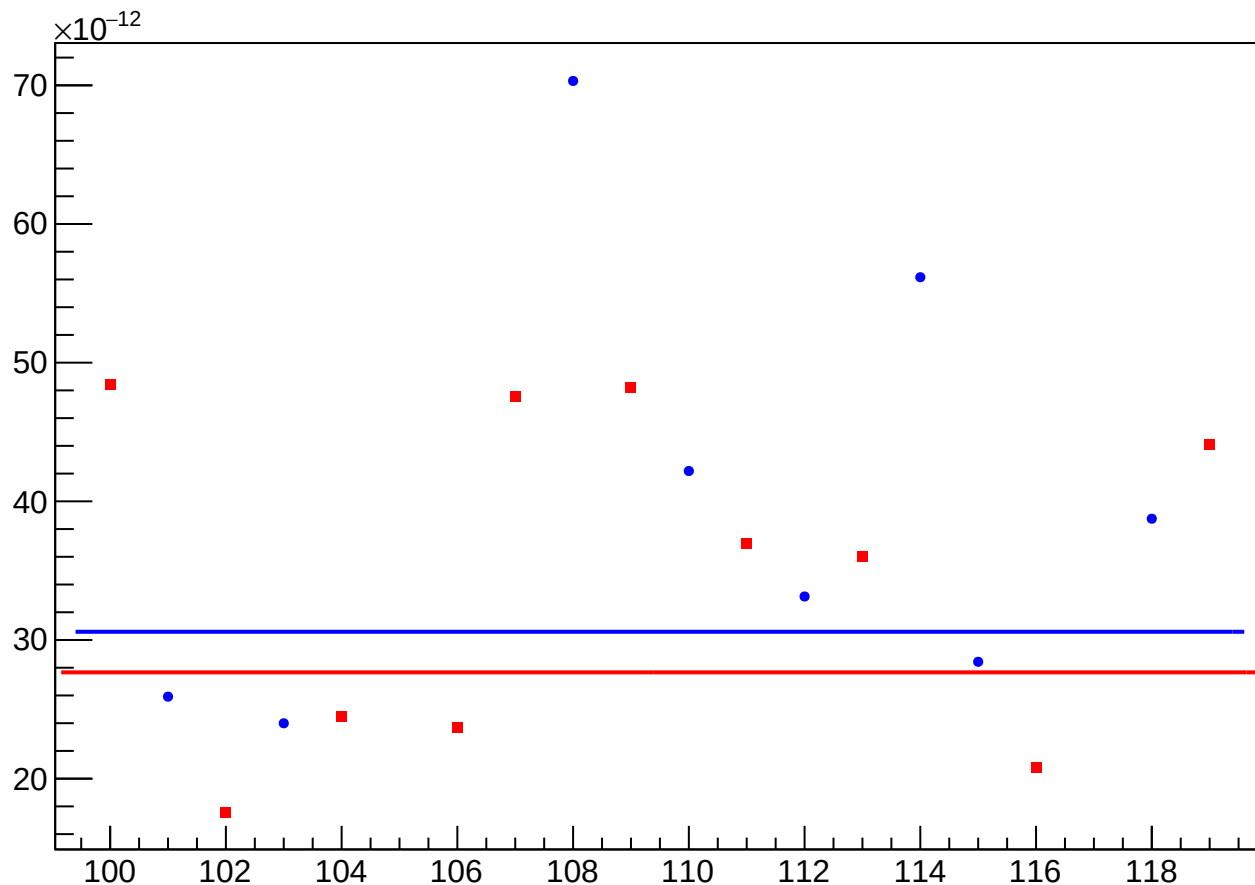
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.0/17

- 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  $\chi^2/\text{NDF}$ : 377488.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 620137.5/9

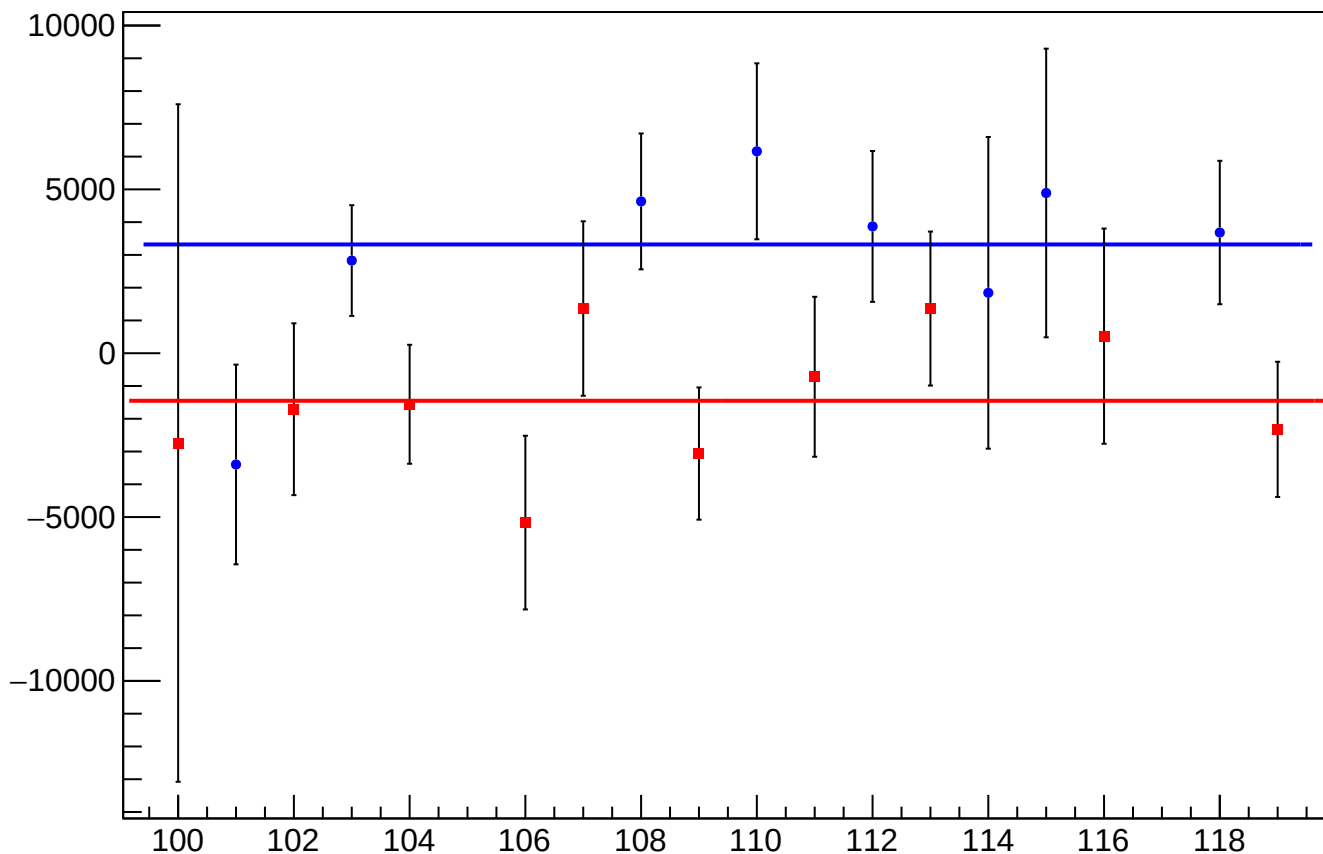
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1018916.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr2\_avg\_mean vs Slug



Right In: 3319.183 $\pm$ 869.611  $\chi^2$ /NDF: 6.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1450.754 $\pm$ 775.152  $\chi^2$ /NDF: 5.8/9

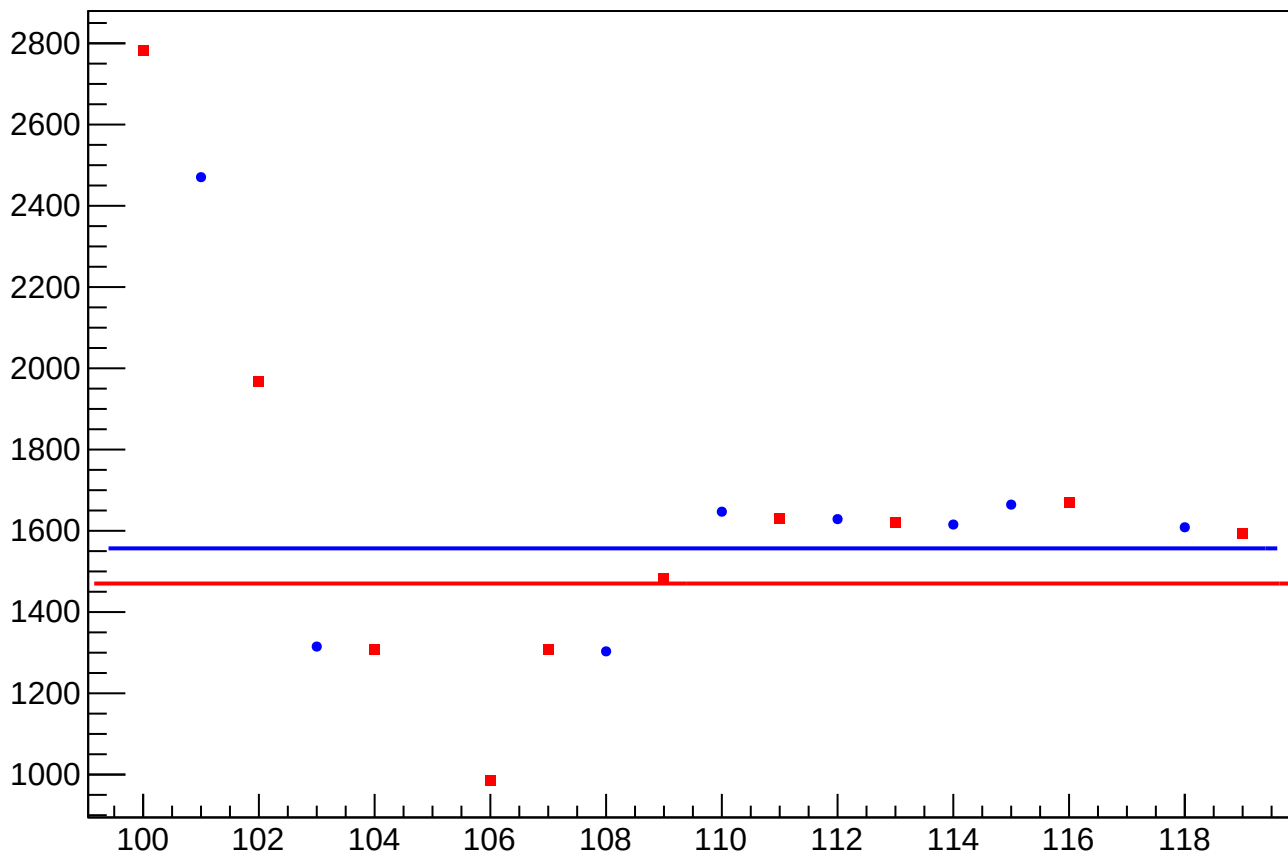
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 661.177 $\pm$ 578.640  $\chi^2$ /NDF: 29.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1556.766 $\pm$ 0.615  $\chi^2$ /NDF: 257521.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1470.262 $\pm$ 0.533  $\chi^2$ /NDF: 272019.9/9

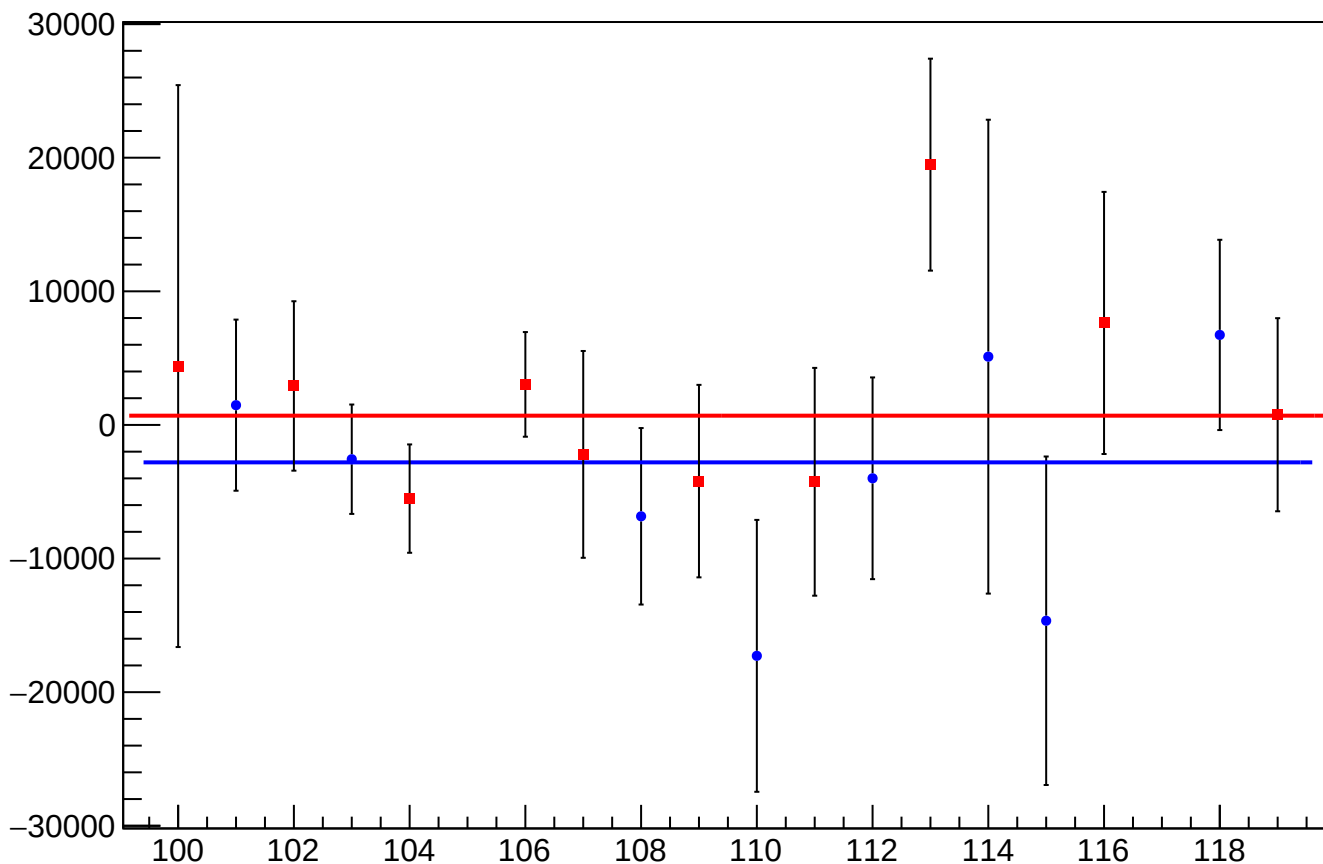
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1507.333 $\pm$ 0.403  $\chi^2$ /NDF: 540850.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_reg\_correction\_mean vs Slug



Right In: -2801.404+/-2471.383  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 693.182+/-2006.737  $\chi^2/\text{NDF}$ : 9.9/9

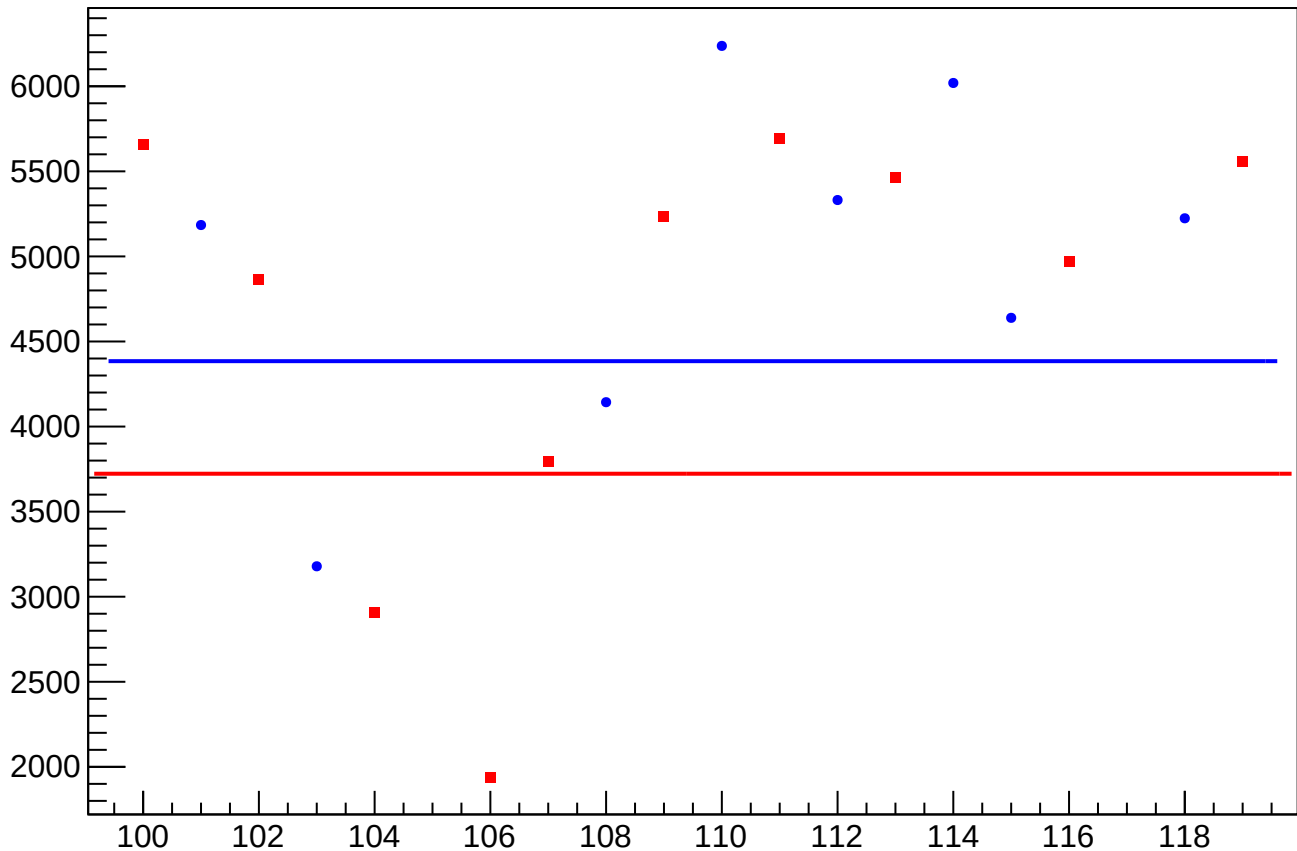
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -695.378+/-1557.846  $\chi^2/\text{NDF}$ : 16.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_avg\_reg\_correction\_rms vs Slug



Right In: 4384.385+/-1.748  $\chi^2/\text{NDF}$ : 350868.6/7

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: 3722.804+/-1.419  $\chi^2/\text{NDF}$ : 1030732.6/9

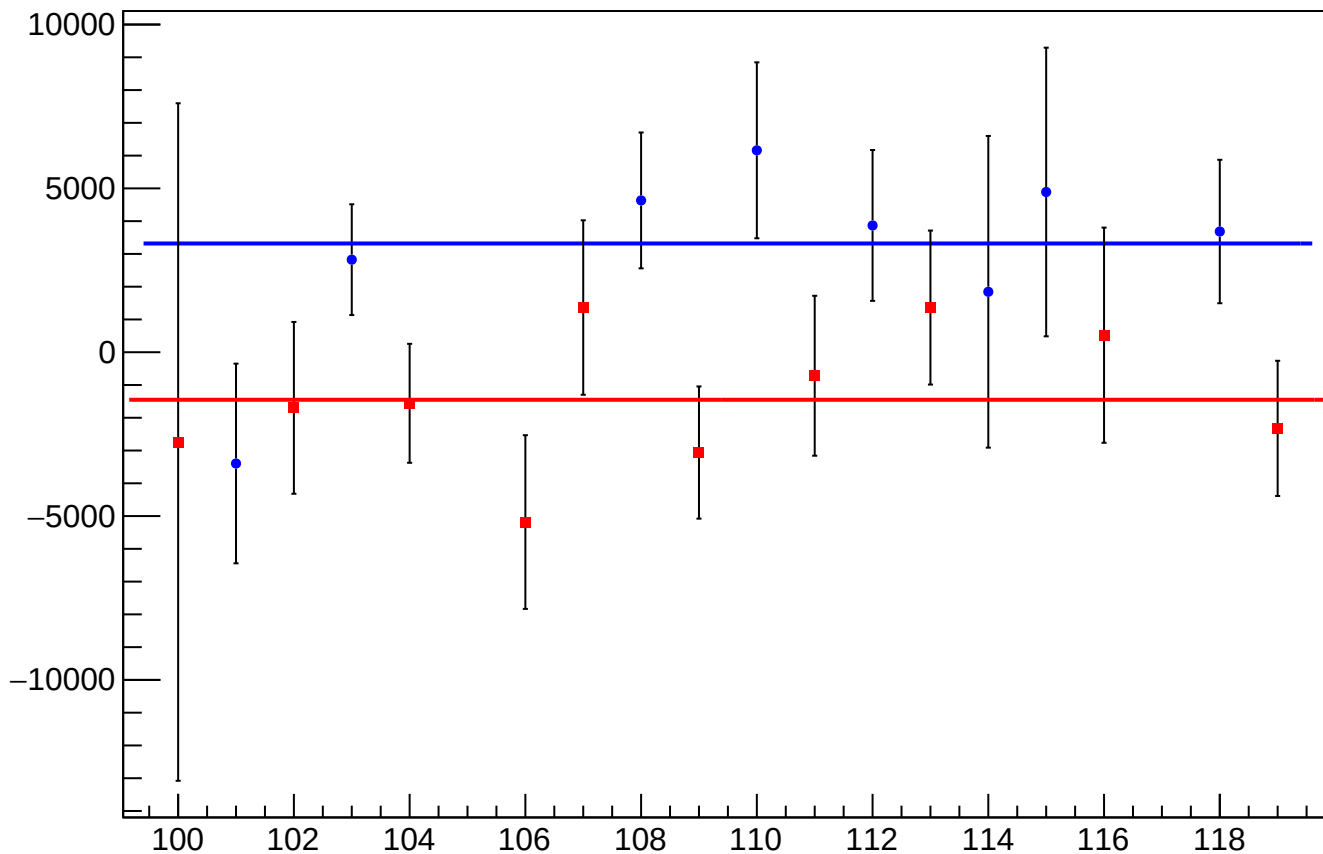
All: 3985.680+/-1.102  $\chi^2/\text{NDF}$ : 1467975.5/17

- 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\_usr\_atr2\_avg\_mean vs Slug



Right In: 3318.477 $\pm$ 869.611  $\chi^2$ /NDF: 6.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1450.916 $\pm$ 775.159  $\chi^2$ /NDF: 5.8/9

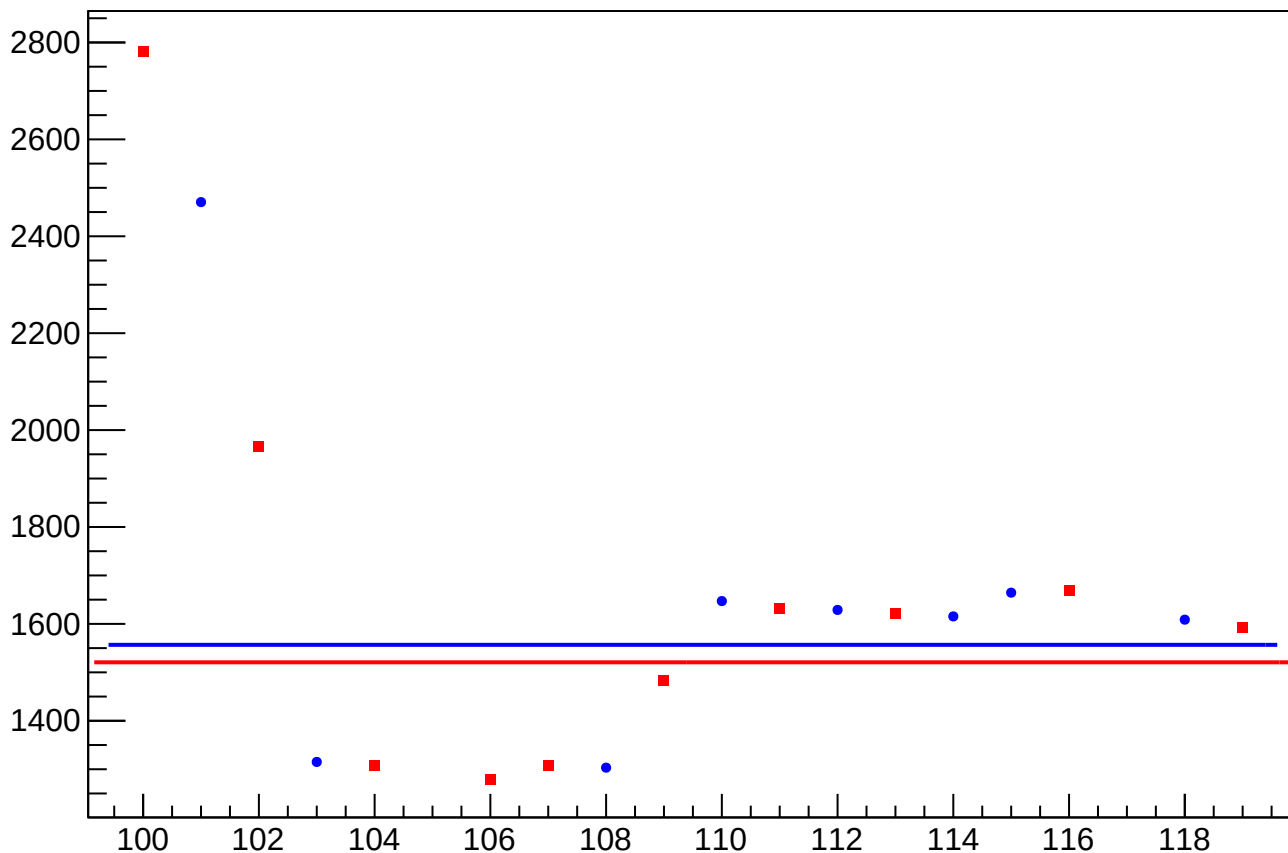
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 660.794 $\pm$ 578.643  $\chi^2$ /NDF: 29.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1556.766 $\pm$ 0.615  $\chi^2$ /NDF: 257520.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1520.690 $\pm$ 0.544  $\chi^2$ /NDF: 162503.1/9

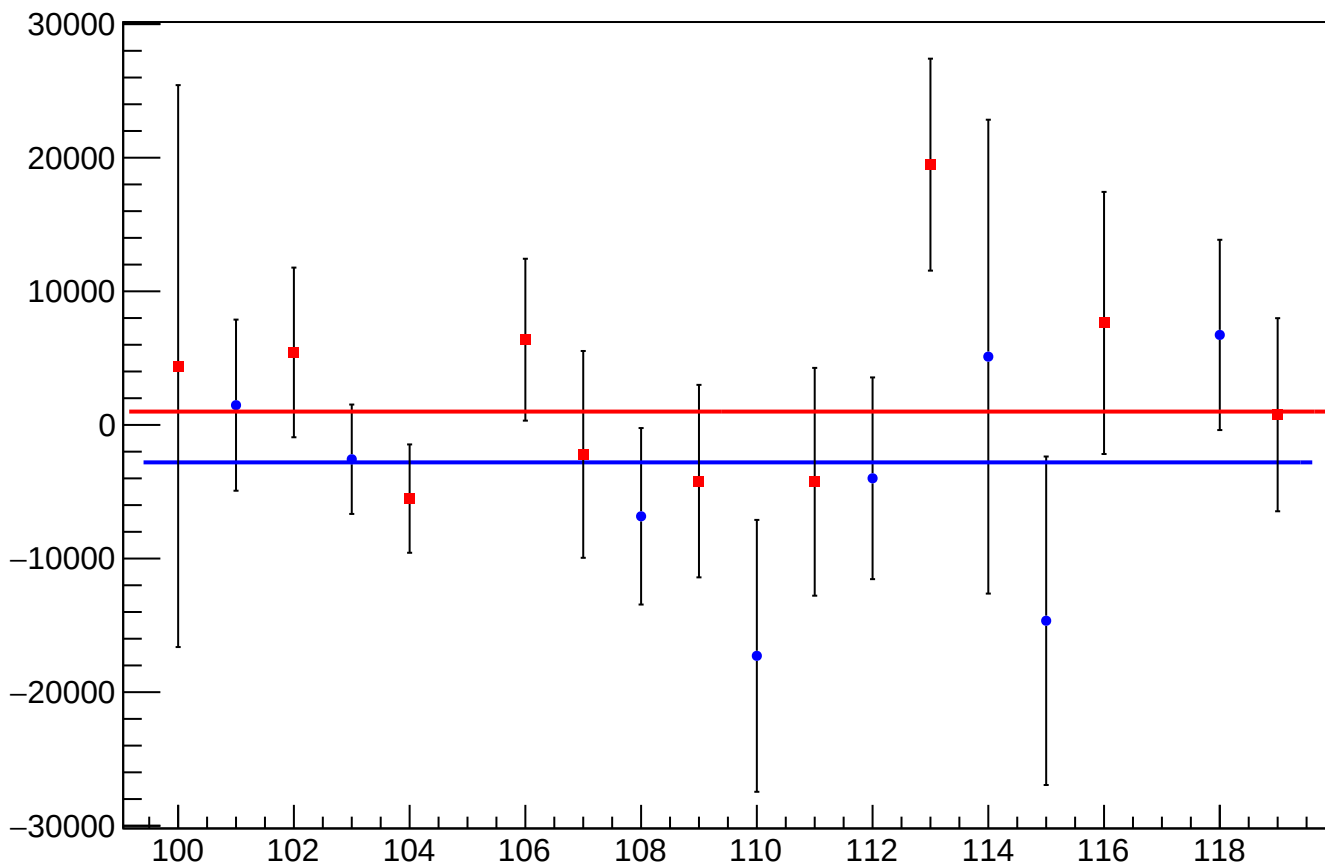
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1536.541 $\pm$ 0.408  $\chi^2$ /NDF: 421953.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_avg\_cor\_correction\_mean vs Slug



Right In: -2801.961+/-2471.473  $\chi^2$ /NDF: 5.8/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 999.659+/-2180.547  $\chi^2$ /NDF: 10.8/9

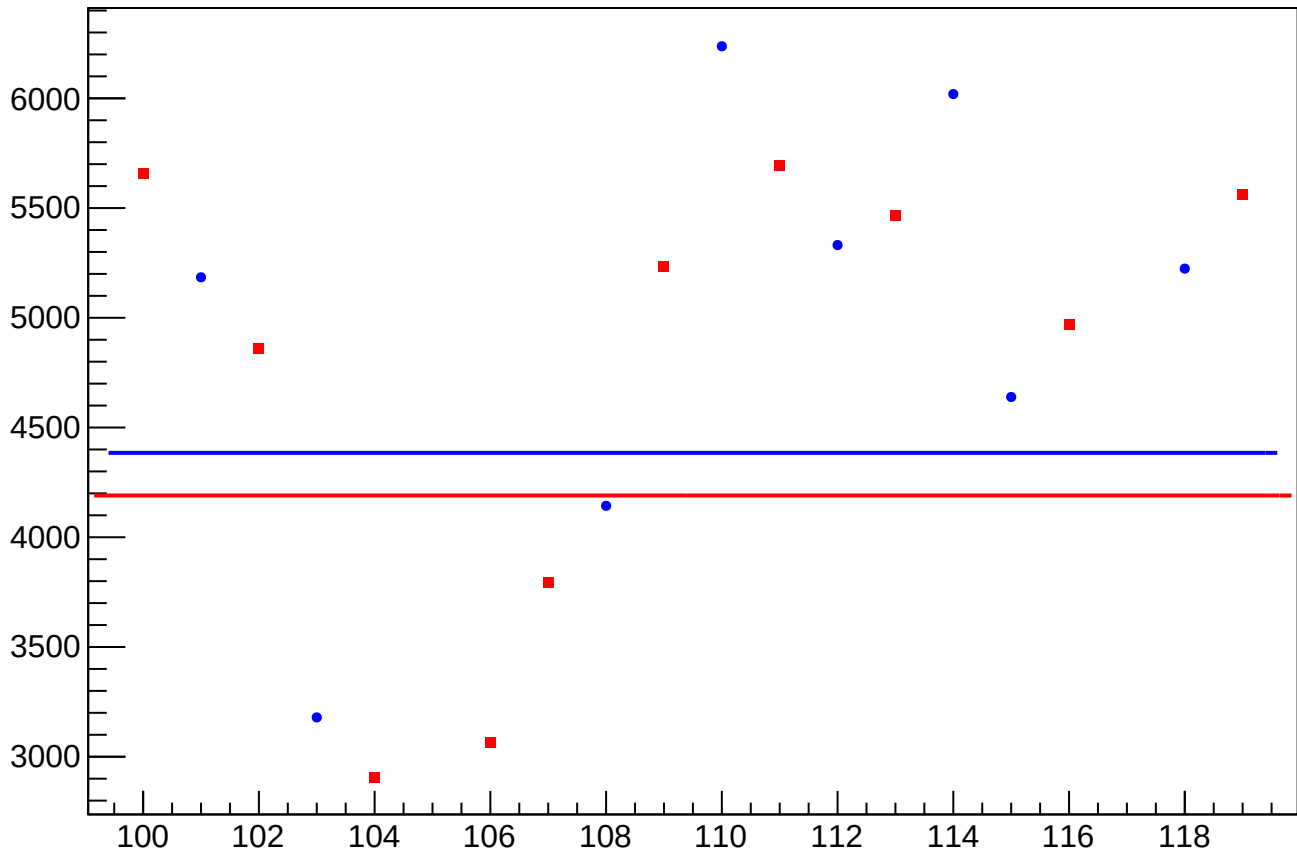
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -664.333+/-1635.111  $\chi^2$ /NDF: 18.0/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_avg\_cor\_correction\_rms vs Slug



Right In: 4384.600+/-1.748  $\chi^2/\text{NDF}$ : 350731.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4190.250+/-1.542  $\chi^2/\text{NDF}$ : 547008.7/9

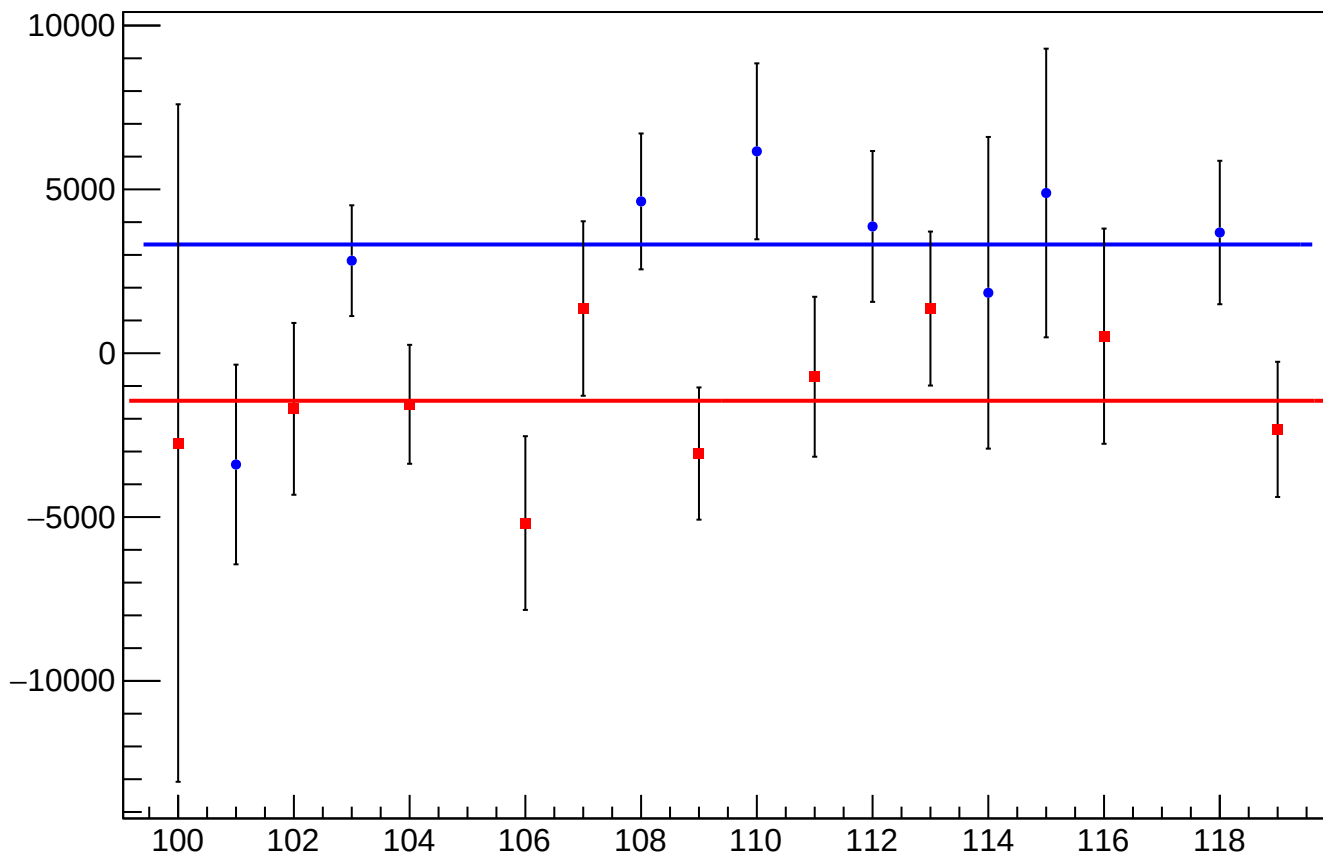
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4275.318+/-1.156  $\chi^2/\text{NDF}$ : 904694.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr2\_avg\_mean vs Slug



Right In: 3318.477+/-869.611  $\chi^2/\text{NDF}$ : 6.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1450.916+/-775.159  $\chi^2/\text{NDF}$ : 5.8/9

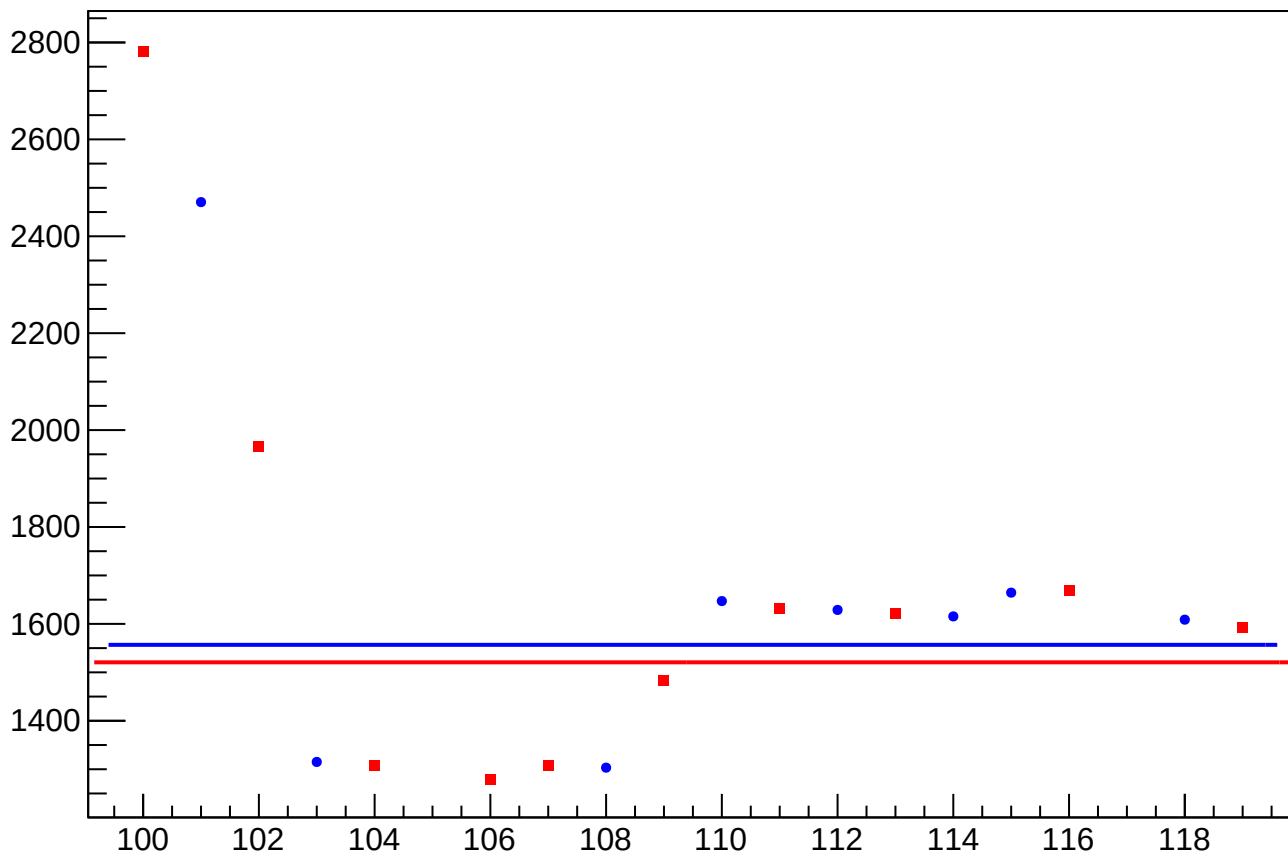
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 660.794+/-578.643  $\chi^2/\text{NDF}$ : 29.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1556.766 $\pm$ 0.615  $\chi^2$ /NDF: 257520.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1520.690 $\pm$ 0.544  $\chi^2$ /NDF: 162503.1/9

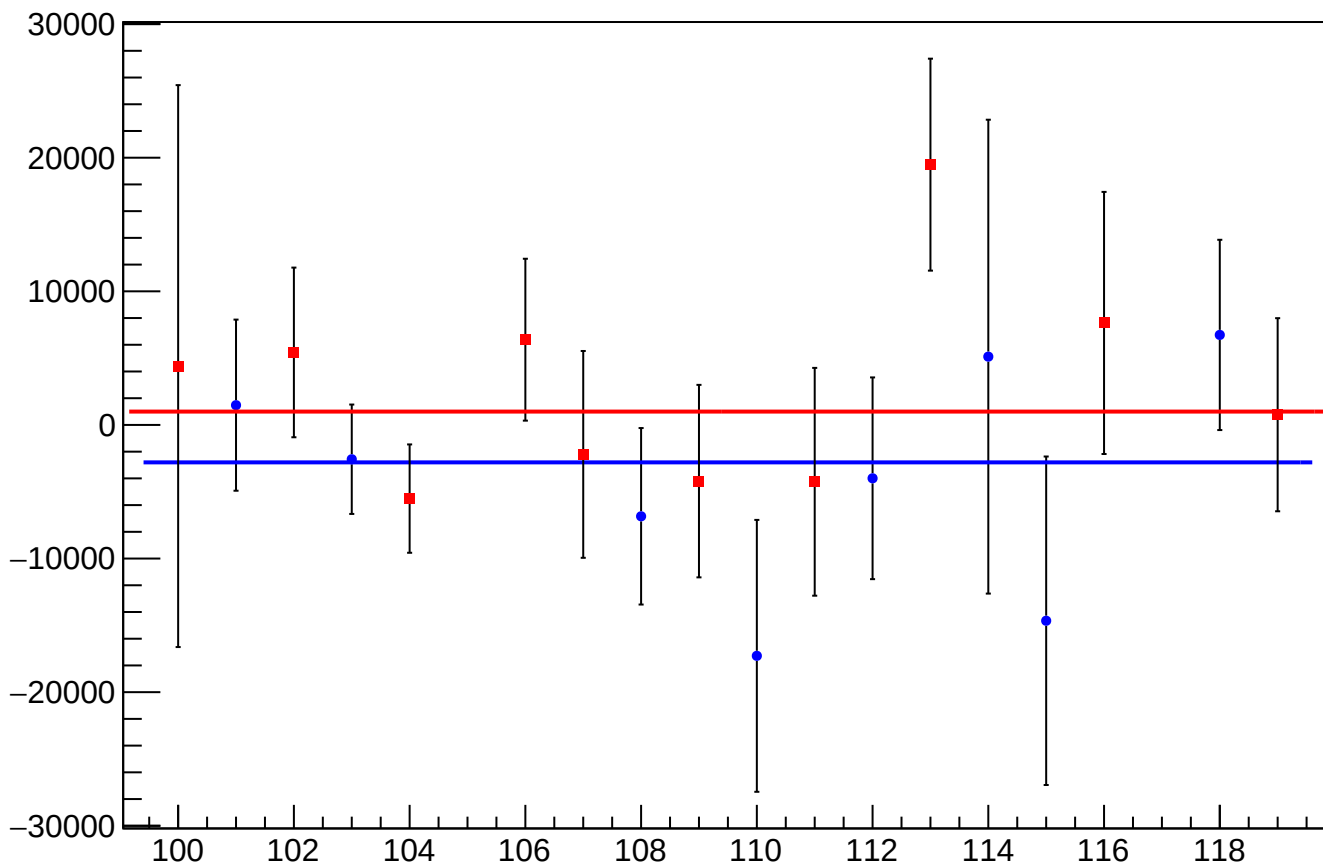
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1536.541 $\pm$ 0.408  $\chi^2$ /NDF: 421953.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -2801.961+/-2471.473  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 999.659+/-2180.547  $\chi^2/\text{NDF}$ : 10.8/9

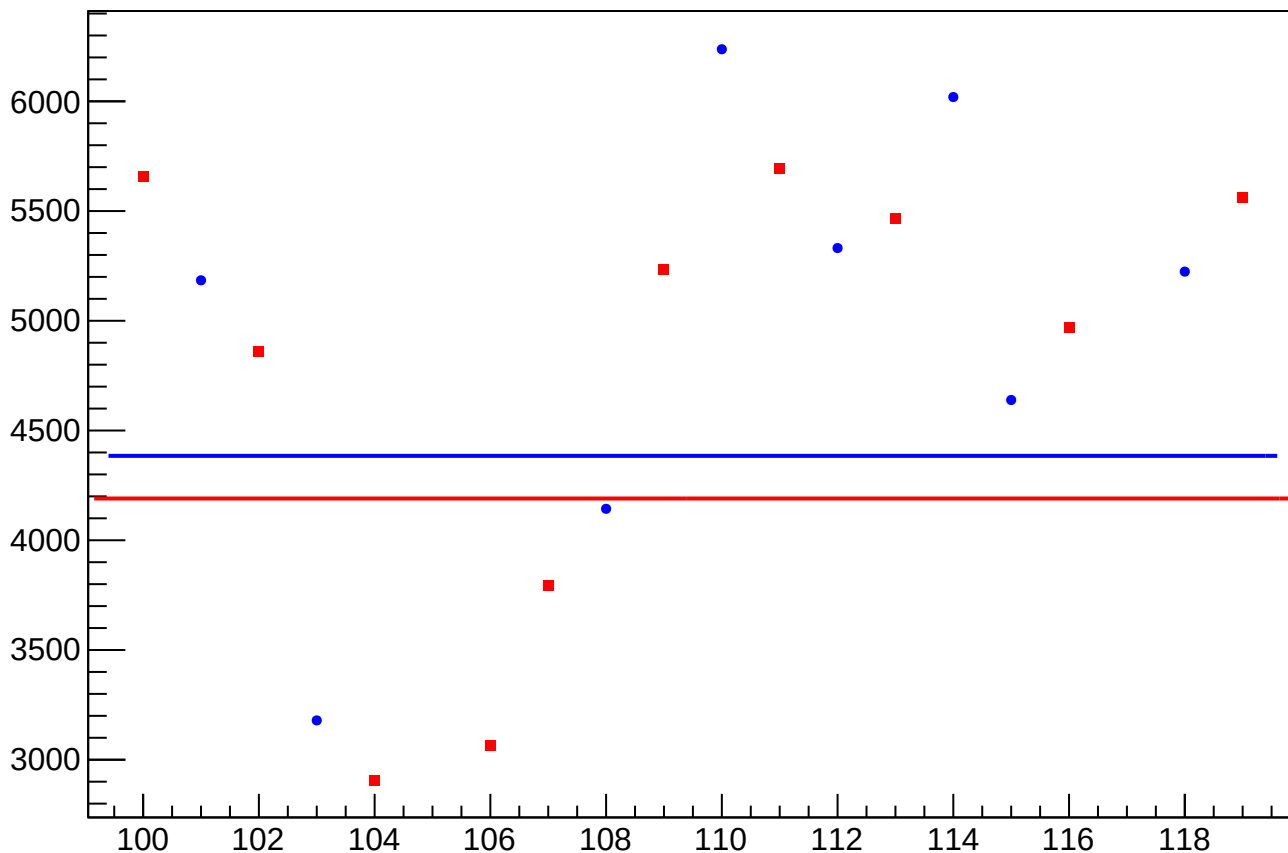
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -664.333+/-1635.111  $\chi^2/\text{NDF}$ : 18.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 4384.600+/-1.748  $\chi^2/\text{NDF}$ : 350731.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4190.250+/-1.542  $\chi^2/\text{NDF}$ : 547008.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

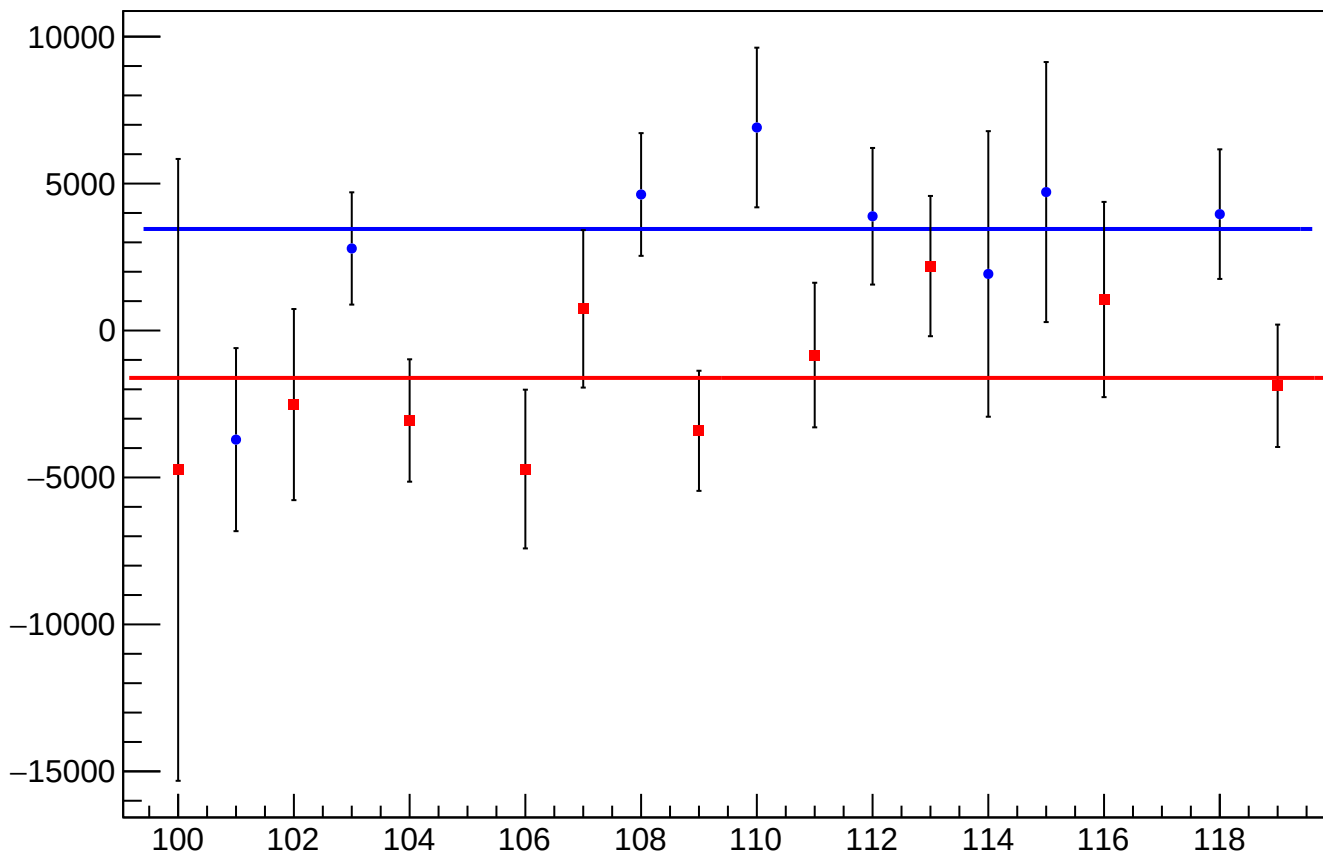
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4275.318+/-1.156  $\chi^2/\text{NDF}$ : 904694.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_usr\_atr2\_avg\_mean vs Slug



Right In: 3455.285 $\pm$ 903.072  $\chi^2$ /NDF: 7.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1612.416 $\pm$ 813.238  $\chi^2$ /NDF: 6.8/9

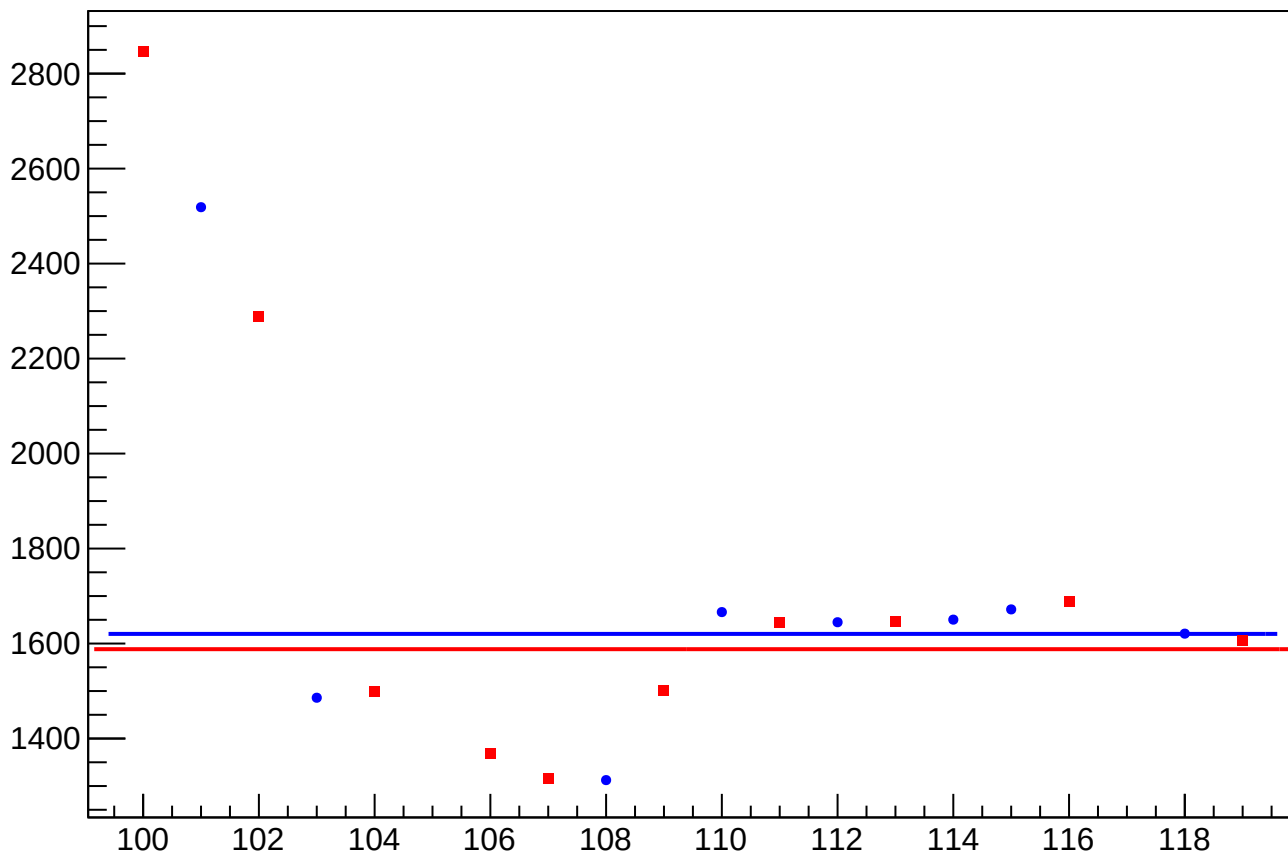
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 656.906 $\pm$ 604.317  $\chi^2$ /NDF: 31.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1620.310+/-0.639  $\chi^2/\text{NDF}$ : 220949.0/7

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

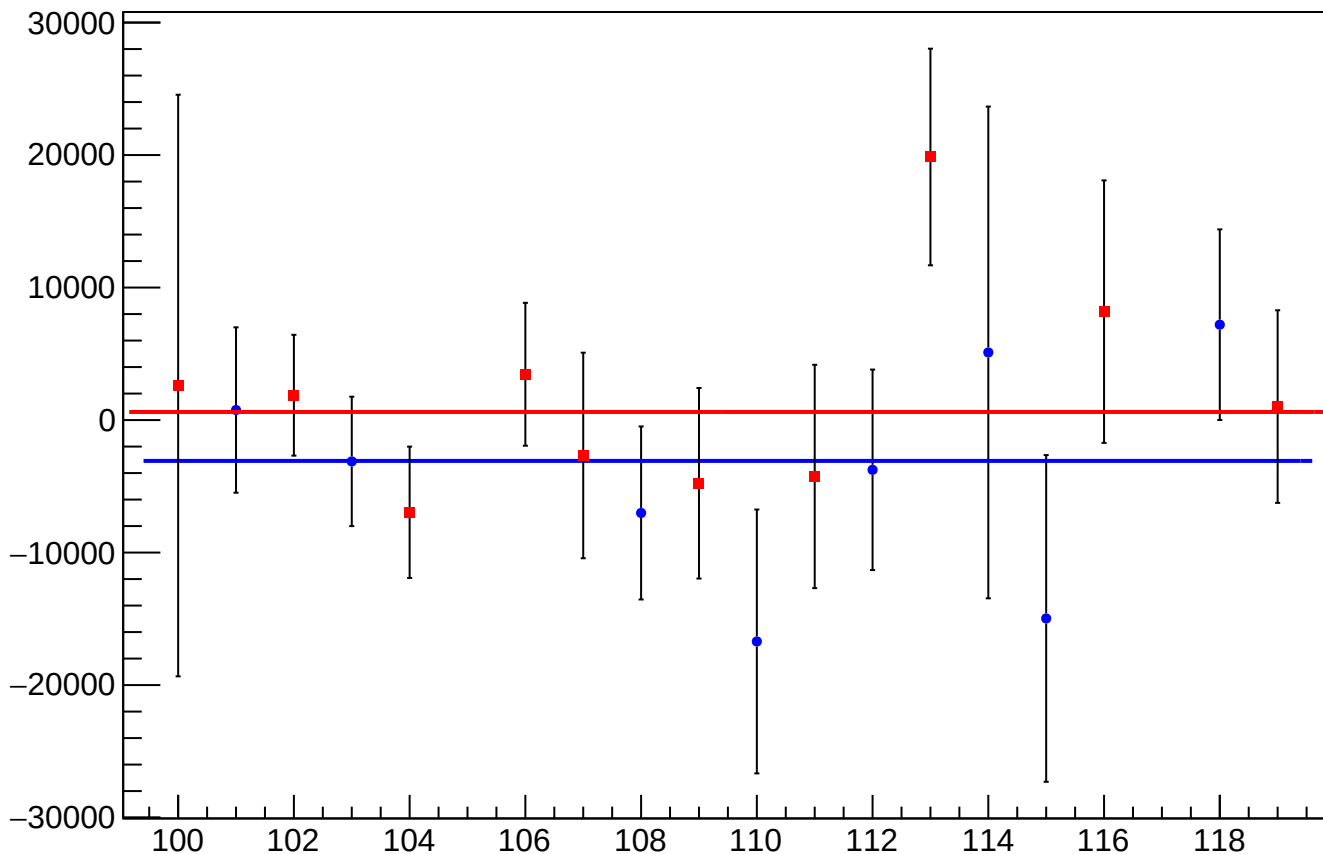
Right Out: 1588.145+/-0.574  $\chi^2/\text{NDF}$ : 166826.6/9

All: 1602.524+/-0.427  $\chi^2/\text{NDF}$ : 389178.7/17

- 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\_dit\_correction\_mean vs Slug



Right In: -3082.200+/-2604.192  $\chi^2$ /NDF: 5.8/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 612.007+/-2134.864  $\chi^2$ /NDF: 9.9/9

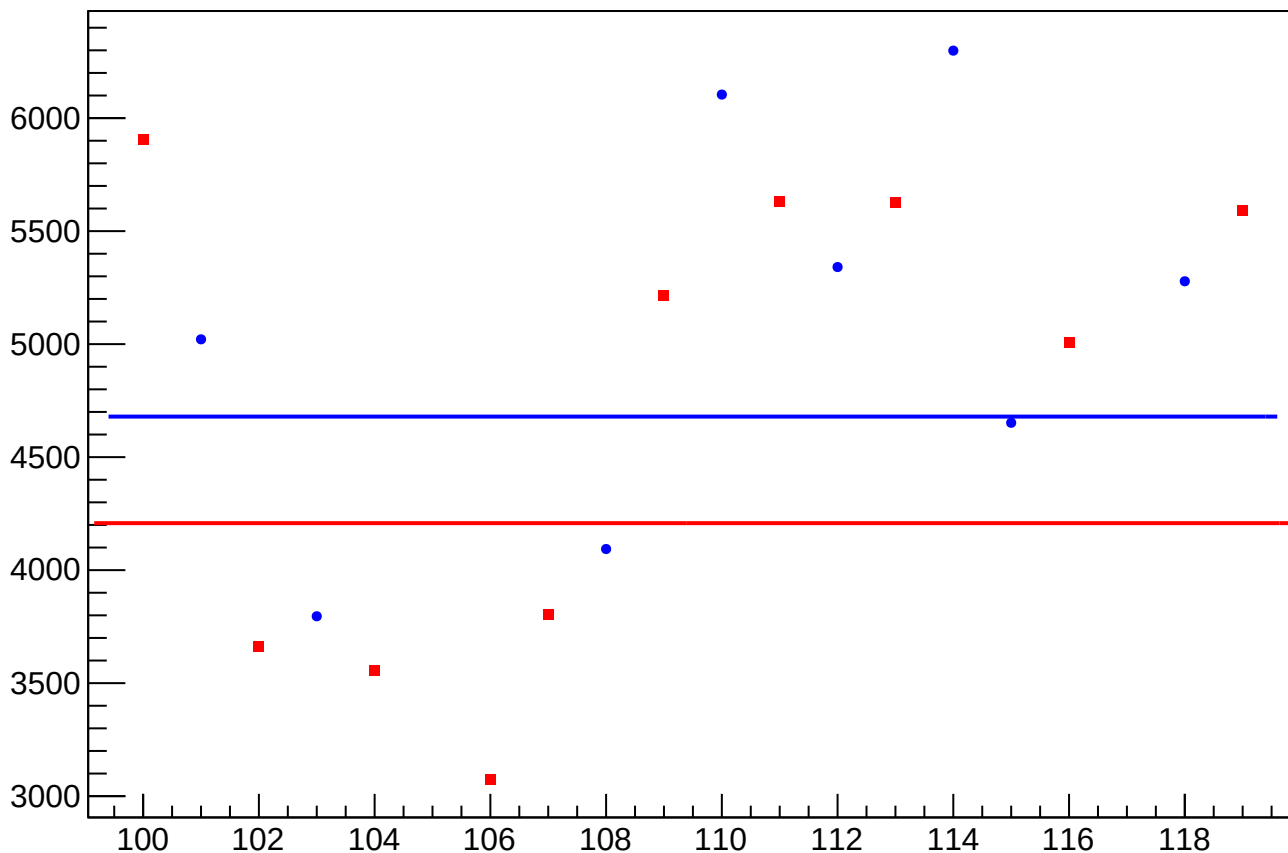
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -872.798+/-1651.000  $\chi^2$ /NDF: 16.9/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_avg\_dit\_correction\_rms vs Slug



Right In: 4679.418+/-1.841  $\chi^2/\text{NDF}$ : 172937.6/7

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

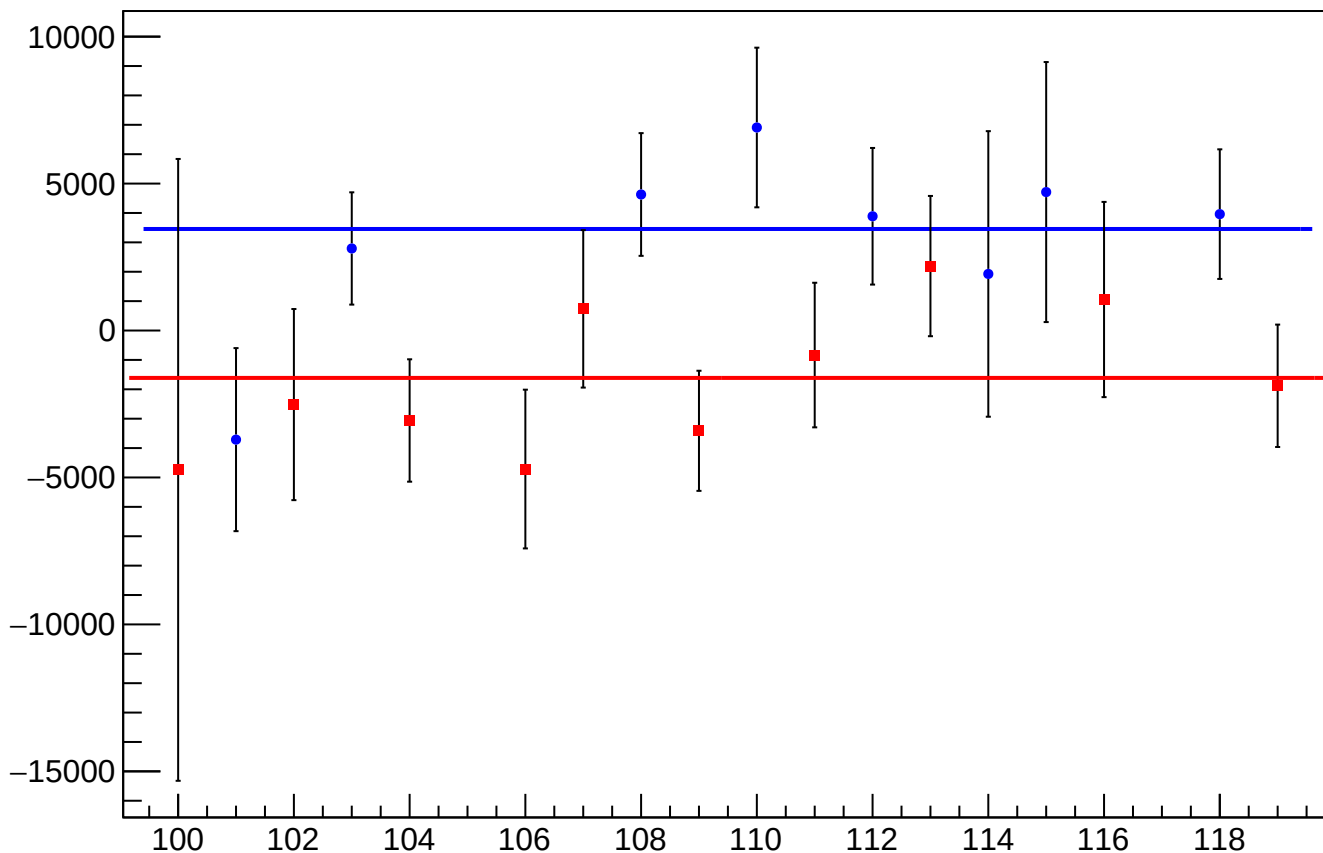
Right Out: 4207.866+/-1.510  $\chi^2/\text{NDF}$ : 411034.2/9

All: 4397.396+/-1.167  $\chi^2/\text{NDF}$ : 623190.8/17

- 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\_usr\_atr2\_avg\_mean vs Slug



Right In: 3455.284 $\pm$ 903.072  $\chi^2$ /NDF: 7.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1612.419 $\pm$ 813.237  $\chi^2$ /NDF: 6.8/9

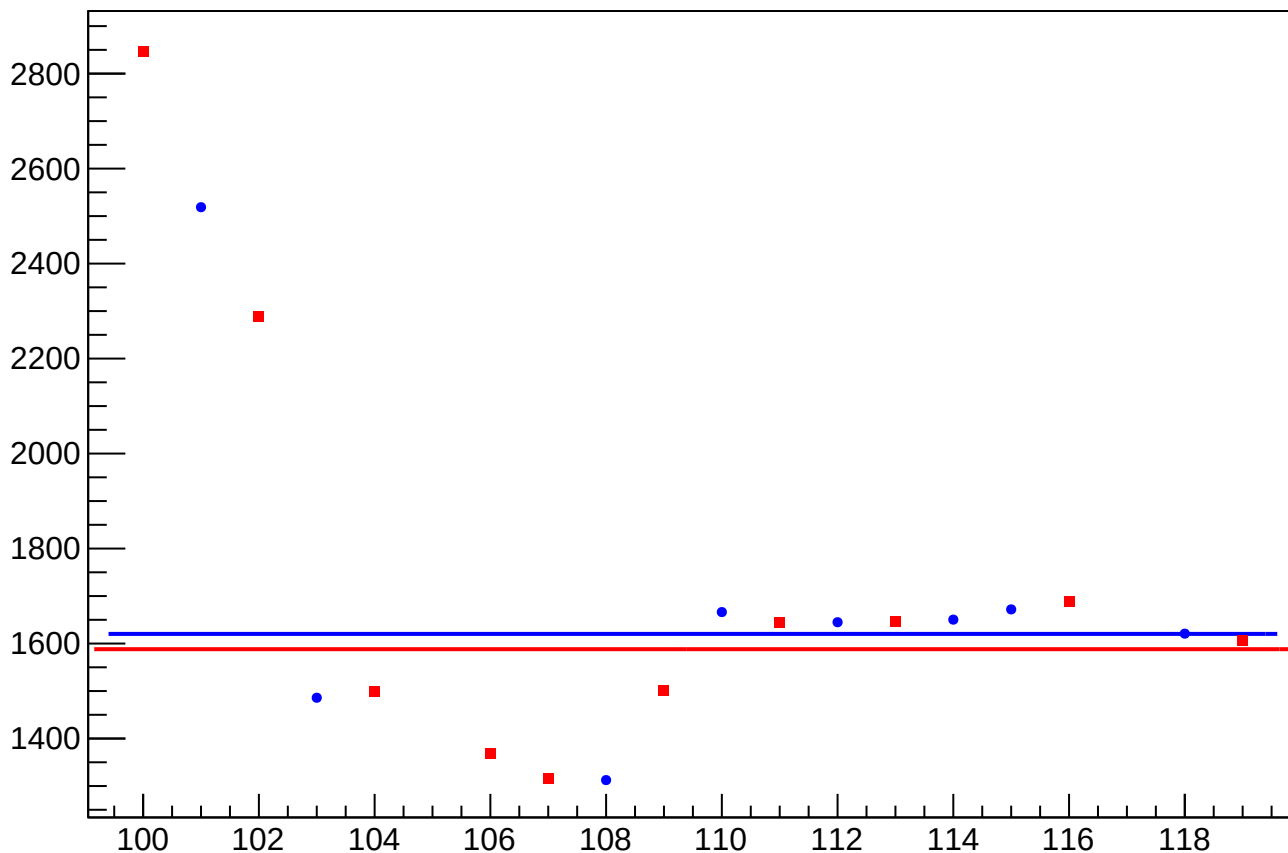
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 656.904 $\pm$ 604.317  $\chi^2$ /NDF: 31.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1620.310+/-0.639  $\chi^2/\text{NDF}$ : 220949.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1588.145+/-0.574  $\chi^2/\text{NDF}$ : 166826.3/9

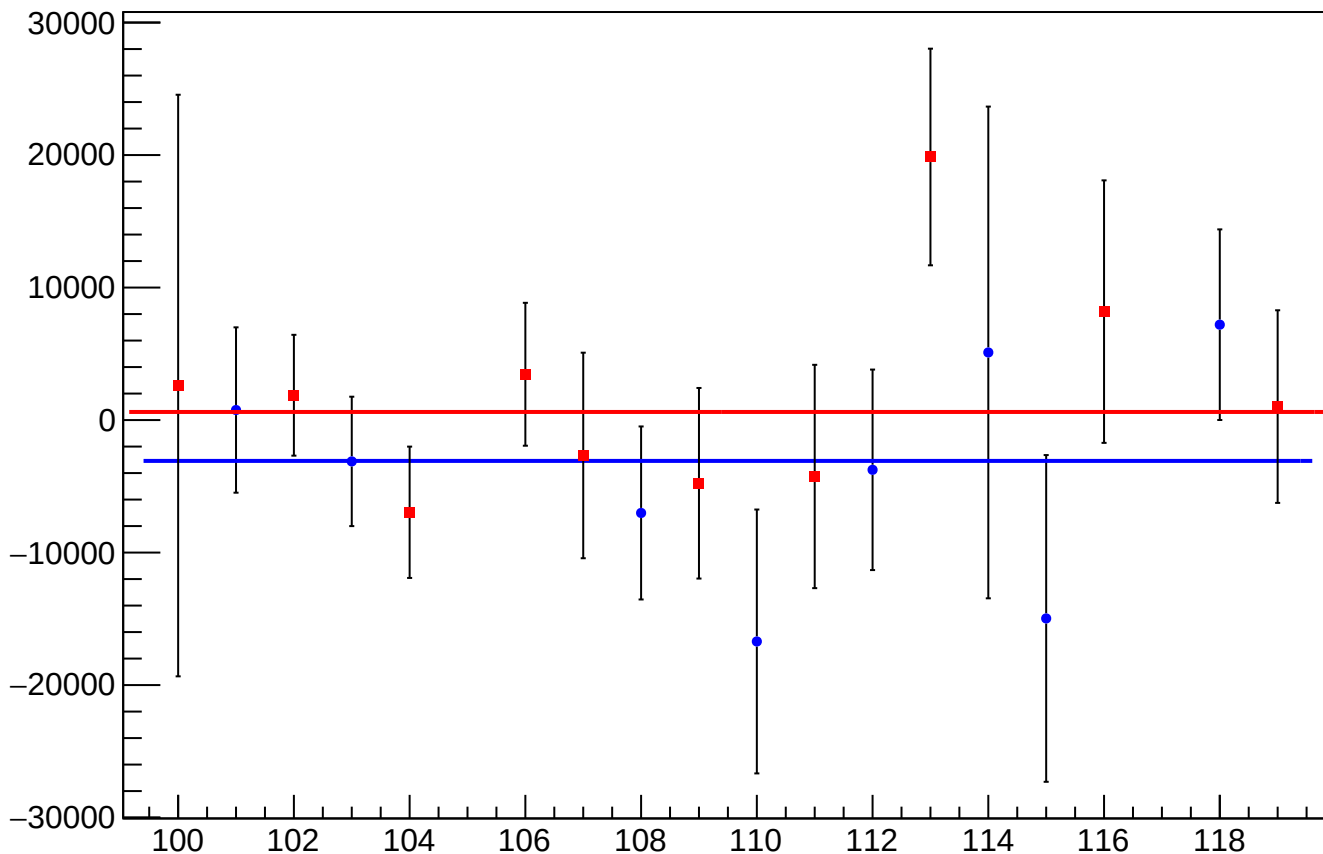
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1602.523+/-0.427  $\chi^2/\text{NDF}$ : 389178.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -3082.197+/-2604.188  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 612.009+/-2134.861  $\chi^2/\text{NDF}$ : 9.9/9

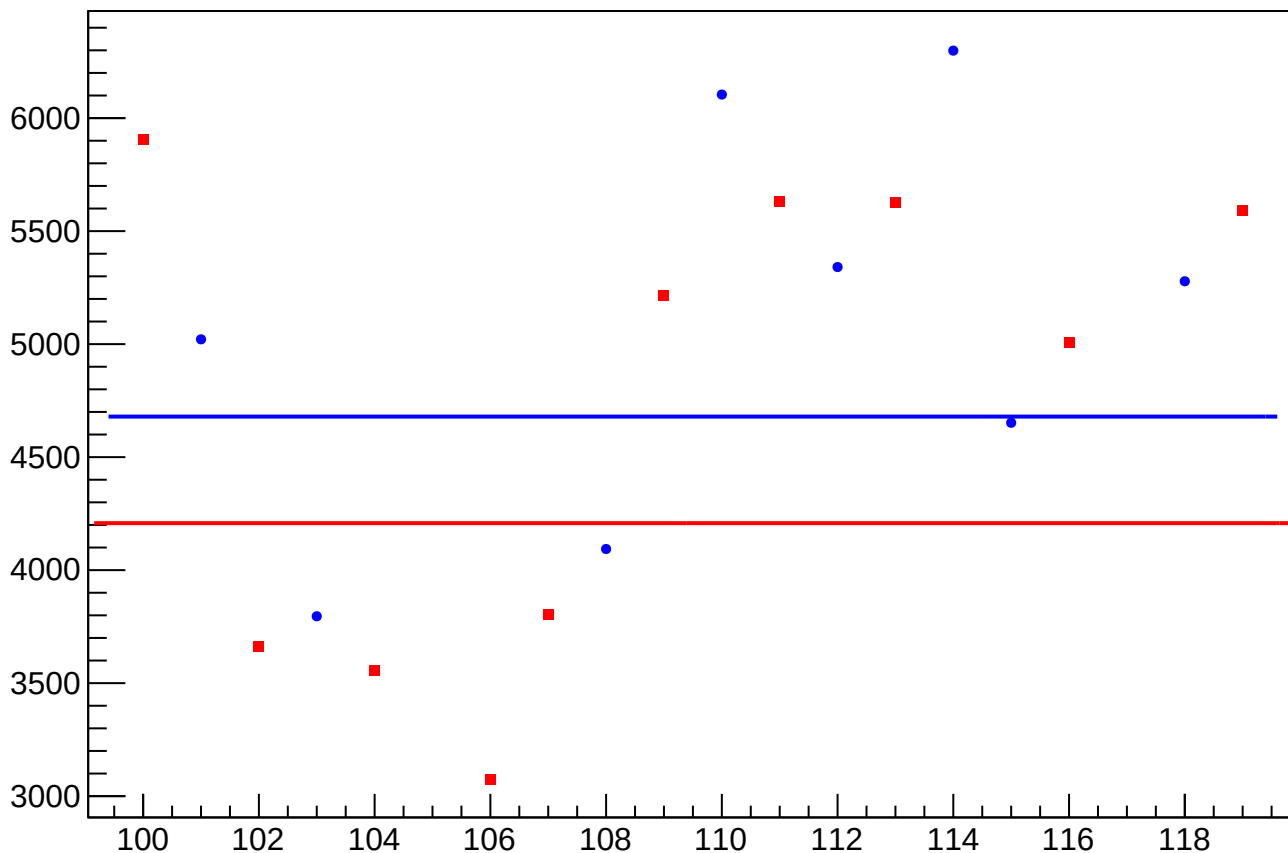
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -872.795+/-1650.997  $\chi^2/\text{NDF}$ : 16.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 4679.412 $\pm$ 1.841  $\chi^2$ /NDF: 172935.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4207.860 $\pm$ 1.510  $\chi^2$ /NDF: 411031.6/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

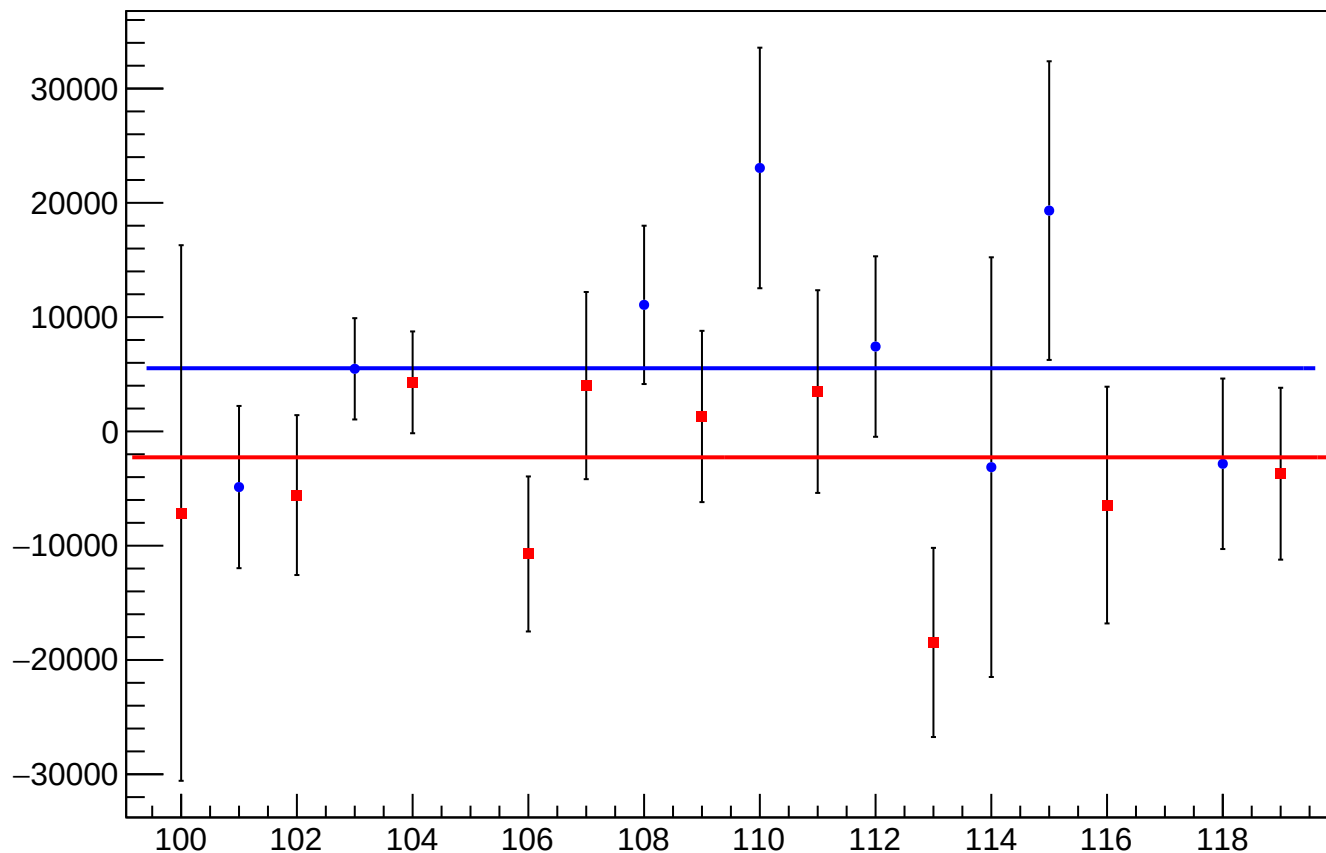
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4397.390 $\pm$ 1.167  $\chi^2$ /NDF: 623185.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_usr\_atr2\_avg\_mean vs Slug



Right In: 5528.015 $\pm$ 2640.143  $\chi^2$ /NDF: 8.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2267.208 $\pm$ 2347.781  $\chi^2$ /NDF: 9.3/9

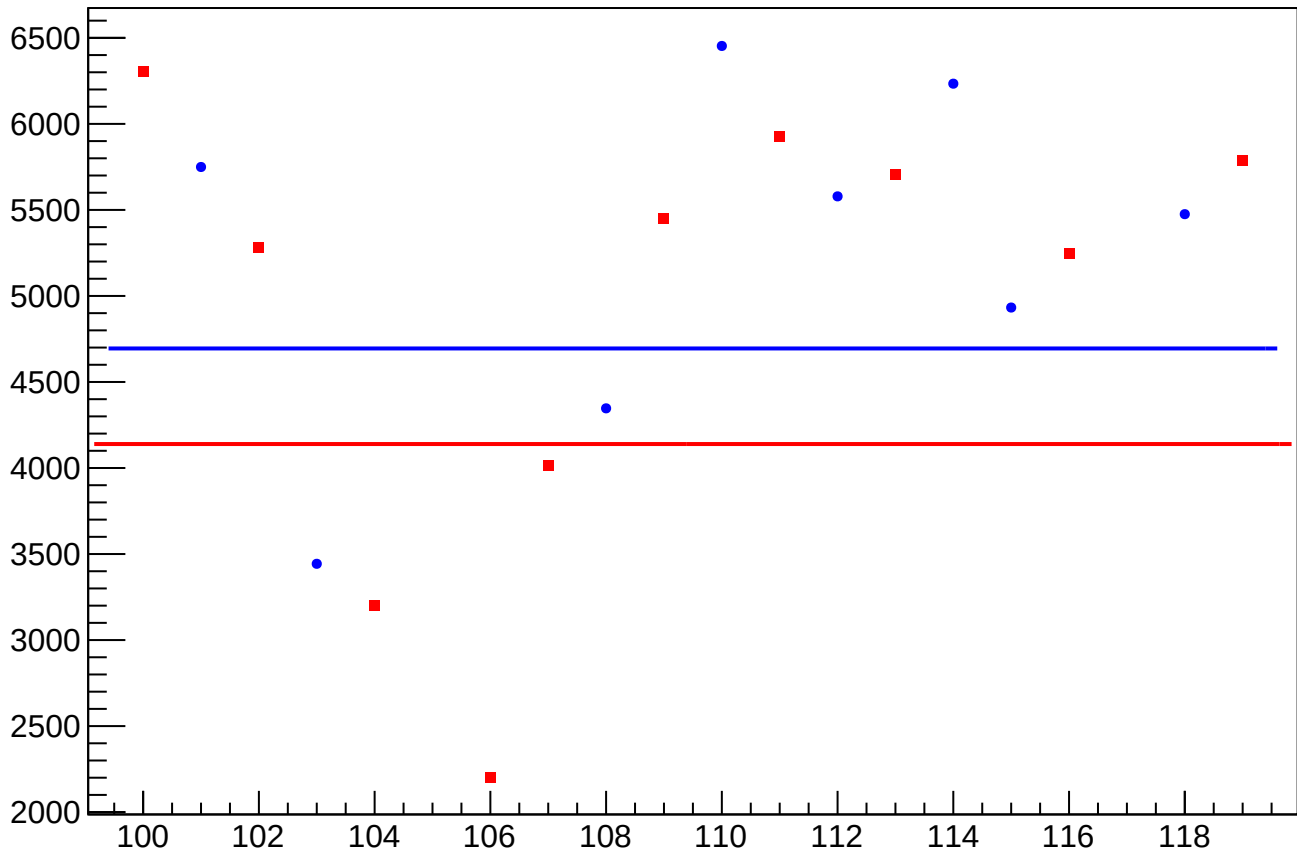
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1175.058 $\pm$ 1754.428  $\chi^2$ /NDF: 22.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 4694.778+/-1.867  $\chi^2/\text{NDF}$ : 326187.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4139.297+/-1.564  $\chi^2/\text{NDF}$ : 828203.8/9

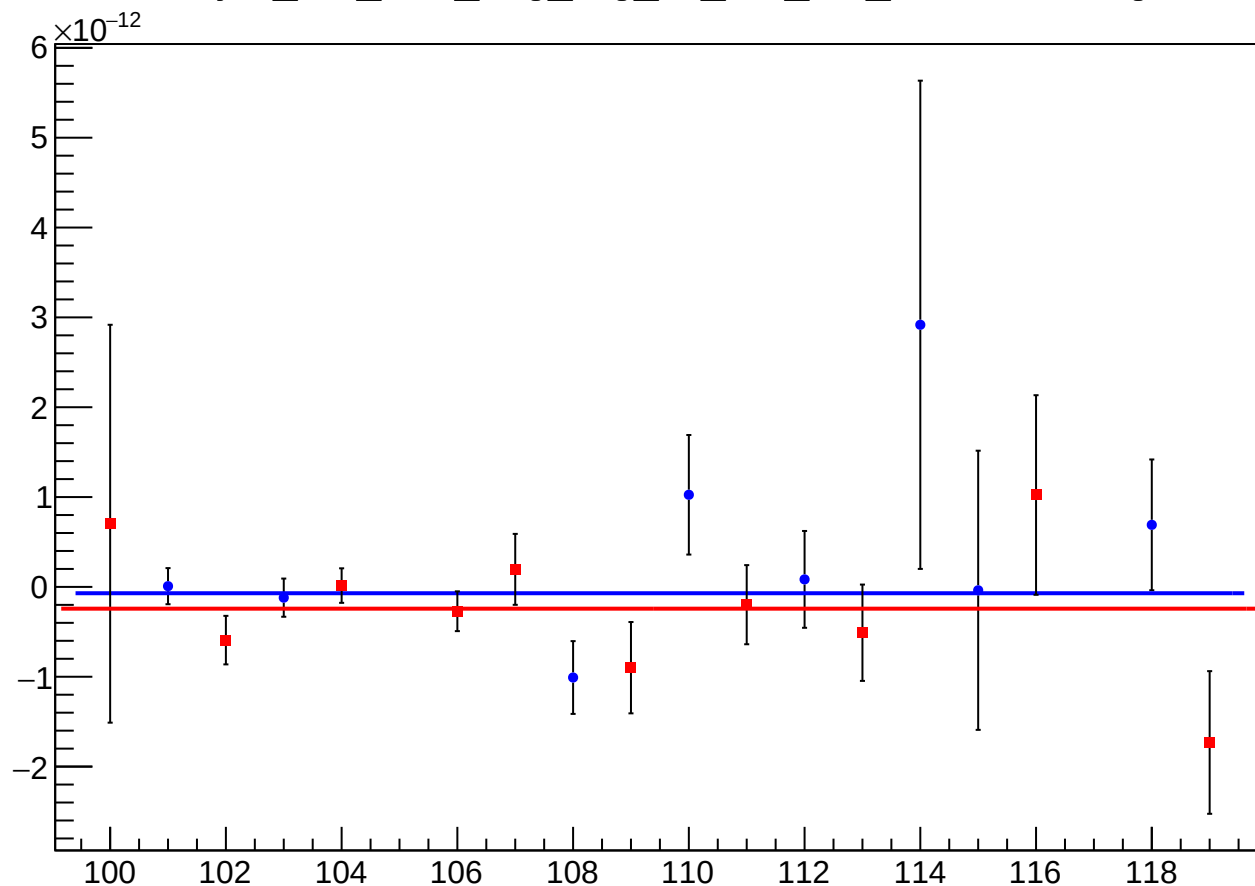
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4368.424+/-1.199  $\chi^2/\text{NDF}$ : 1206406.6/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 10.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.6/9

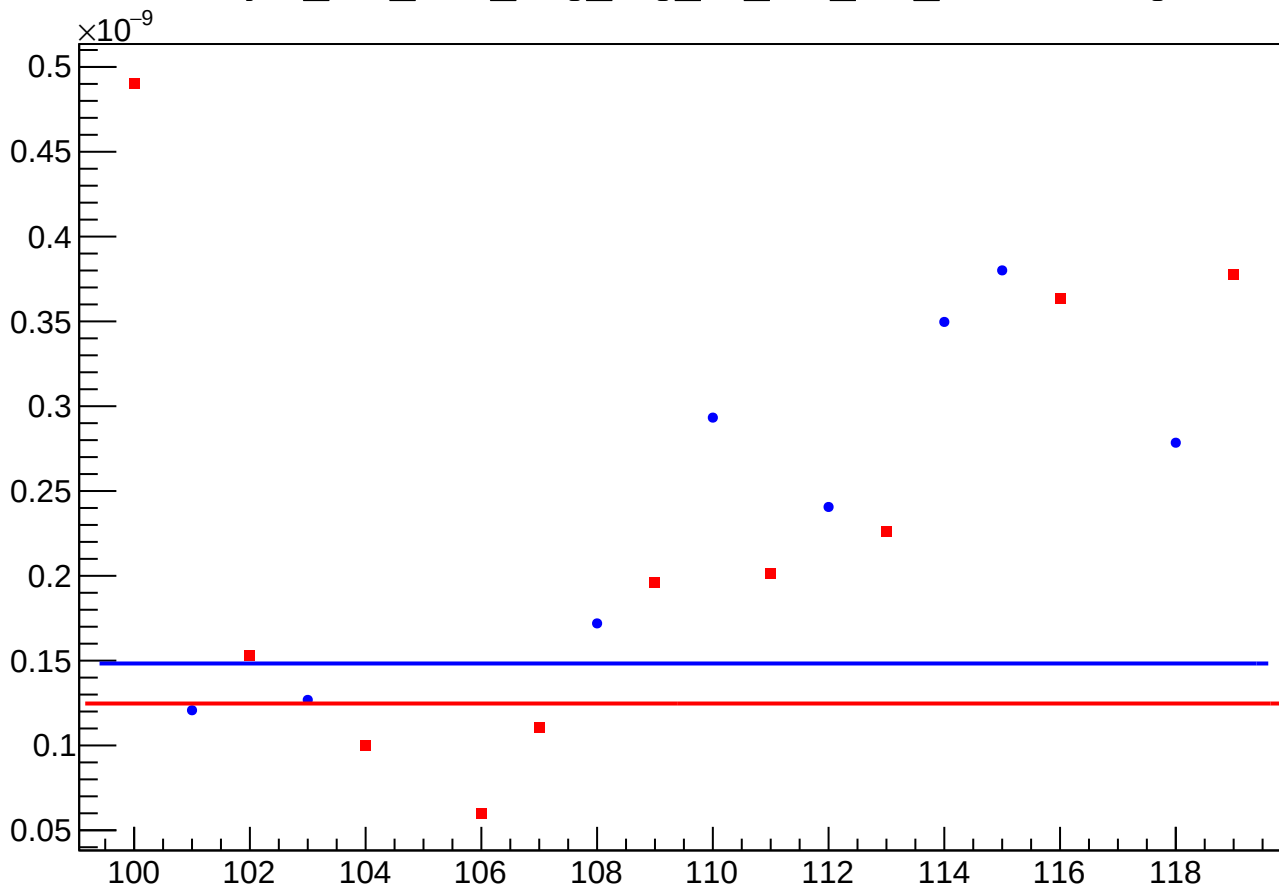
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 23.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 337853.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 751600.7/9

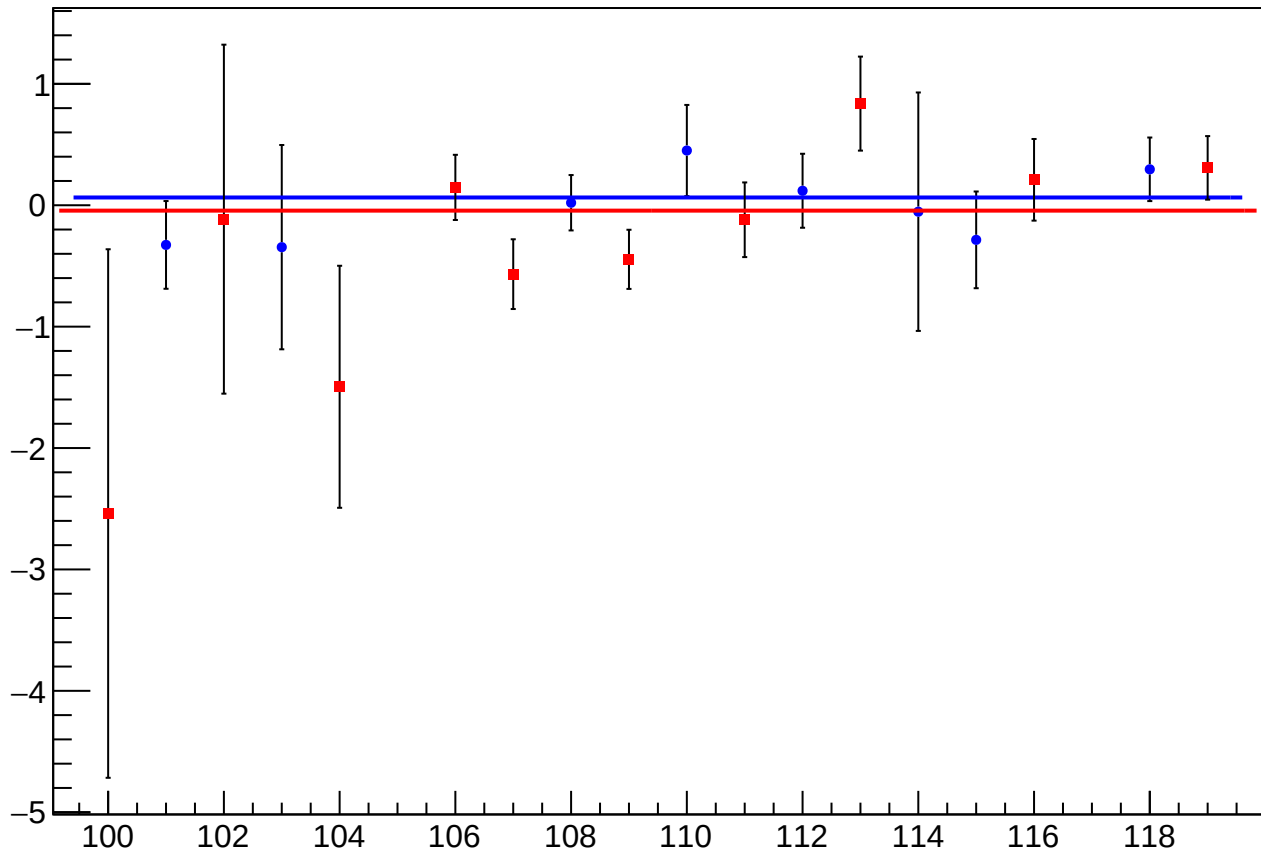
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1128613.9/17

- 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: 0.064 $\pm$ 0.121  $\chi^2$ /NDF: 4.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.044 $\pm$ 0.108  $\chi^2$ /NDF: 17.6/9

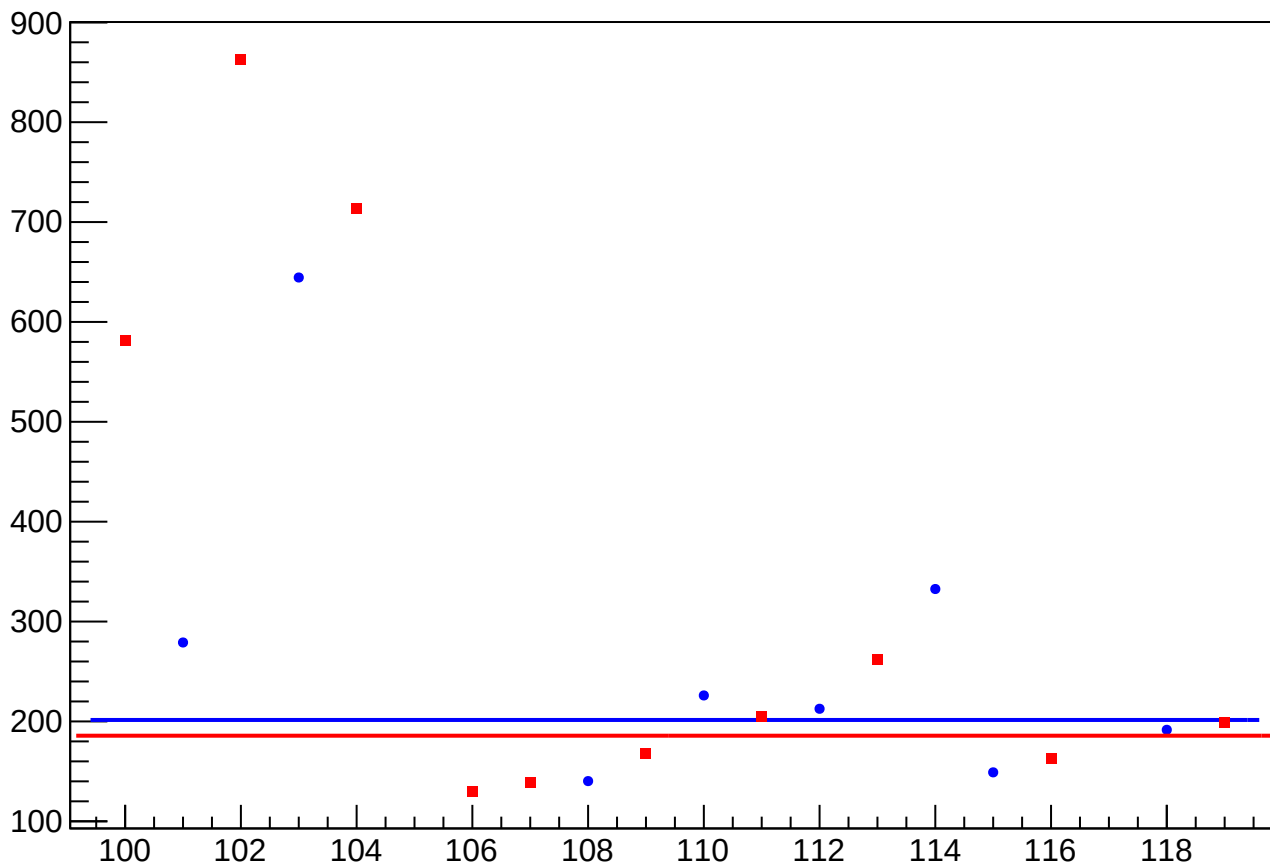
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.081  $\chi^2$ /NDF: 22.1/17

- 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: 201.463+/-0.086  $\chi^2/\text{NDF}$ : 874931.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 185.708+/-0.077  $\chi^2/\text{NDF}$ : 1318497.4/9

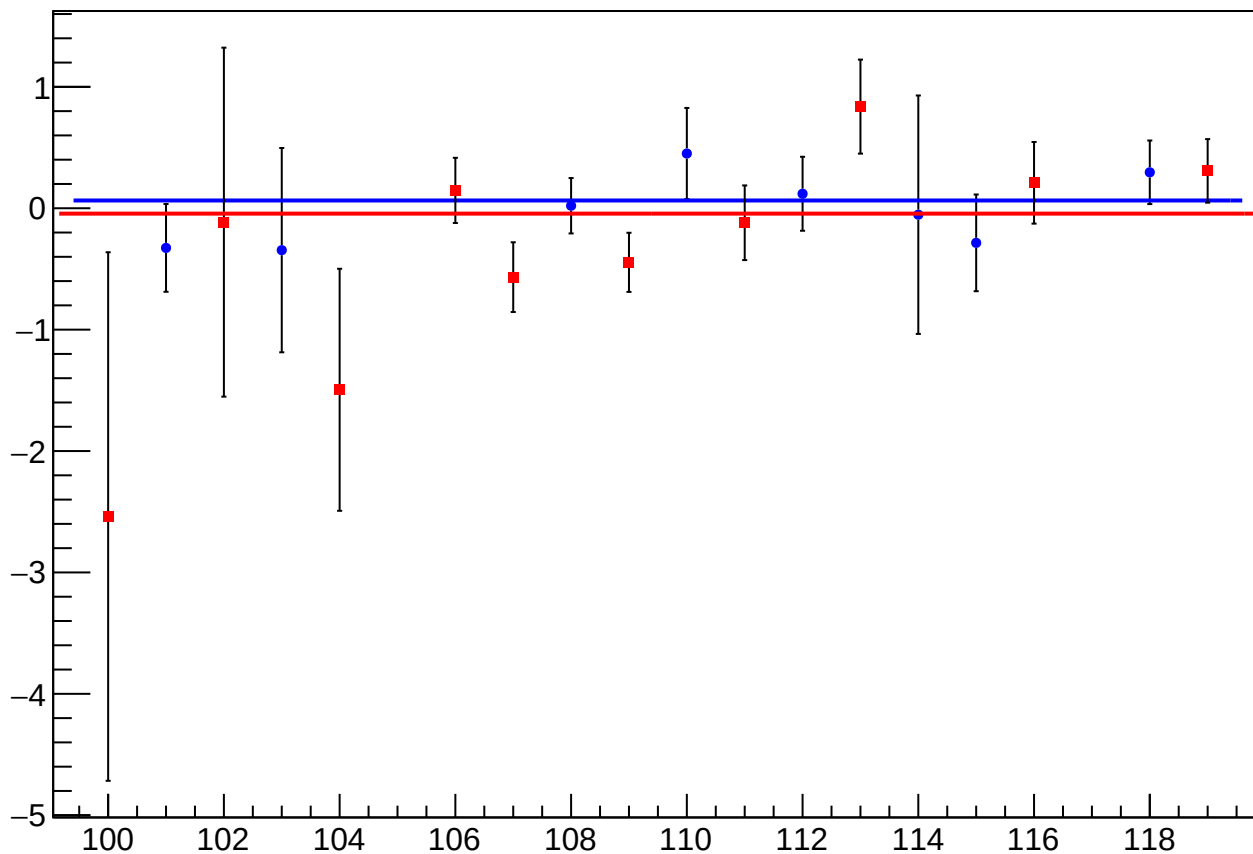
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 192.704+/-0.057  $\chi^2/\text{NDF}$ : 2212216.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.064 $\pm$ 0.121  $\chi^2$ /NDF: 4.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.044 $\pm$ 0.108  $\chi^2$ /NDF: 17.6/9

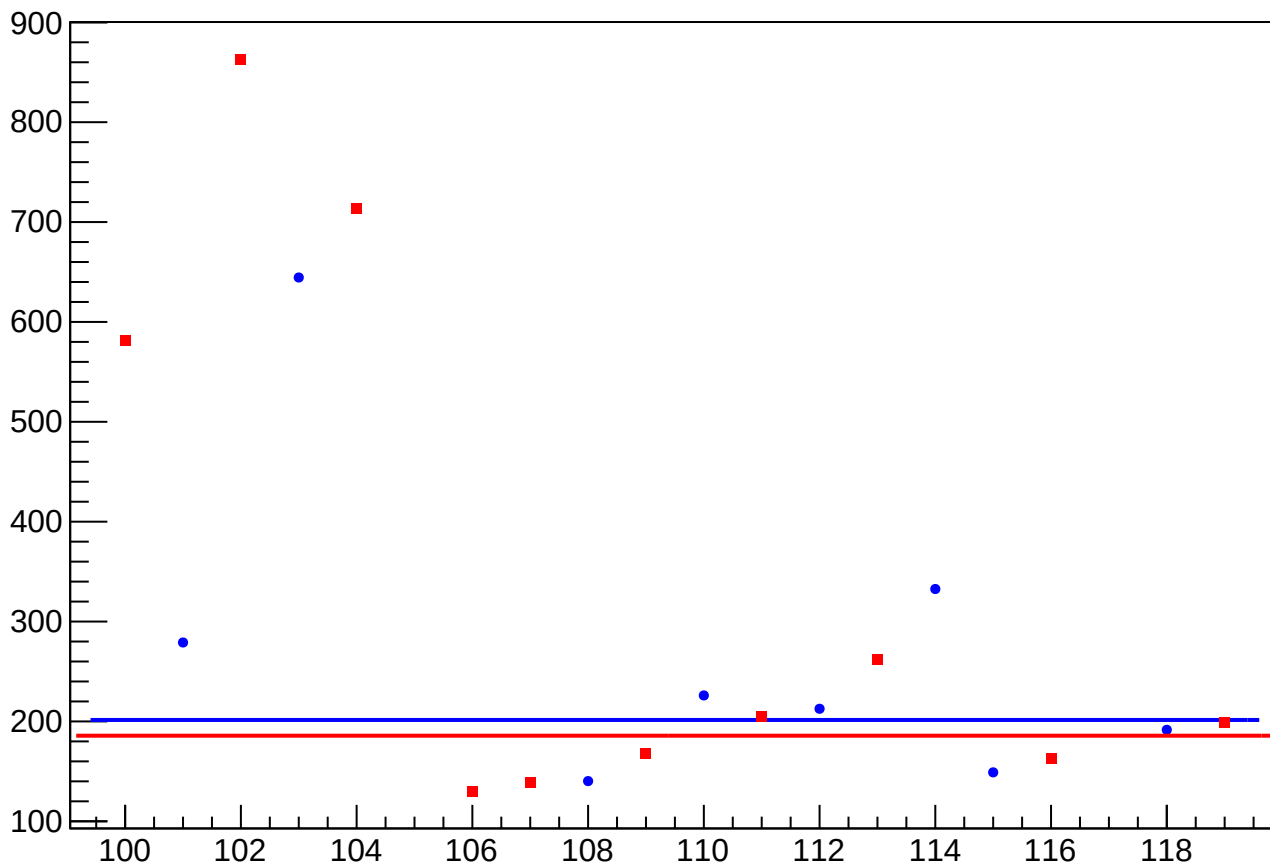
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.081  $\chi^2$ /NDF: 22.1/17

- 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: 201.463+/-0.086  $\chi^2/\text{NDF}$ : 874931.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 185.708+/-0.077  $\chi^2/\text{NDF}$ : 1318497.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

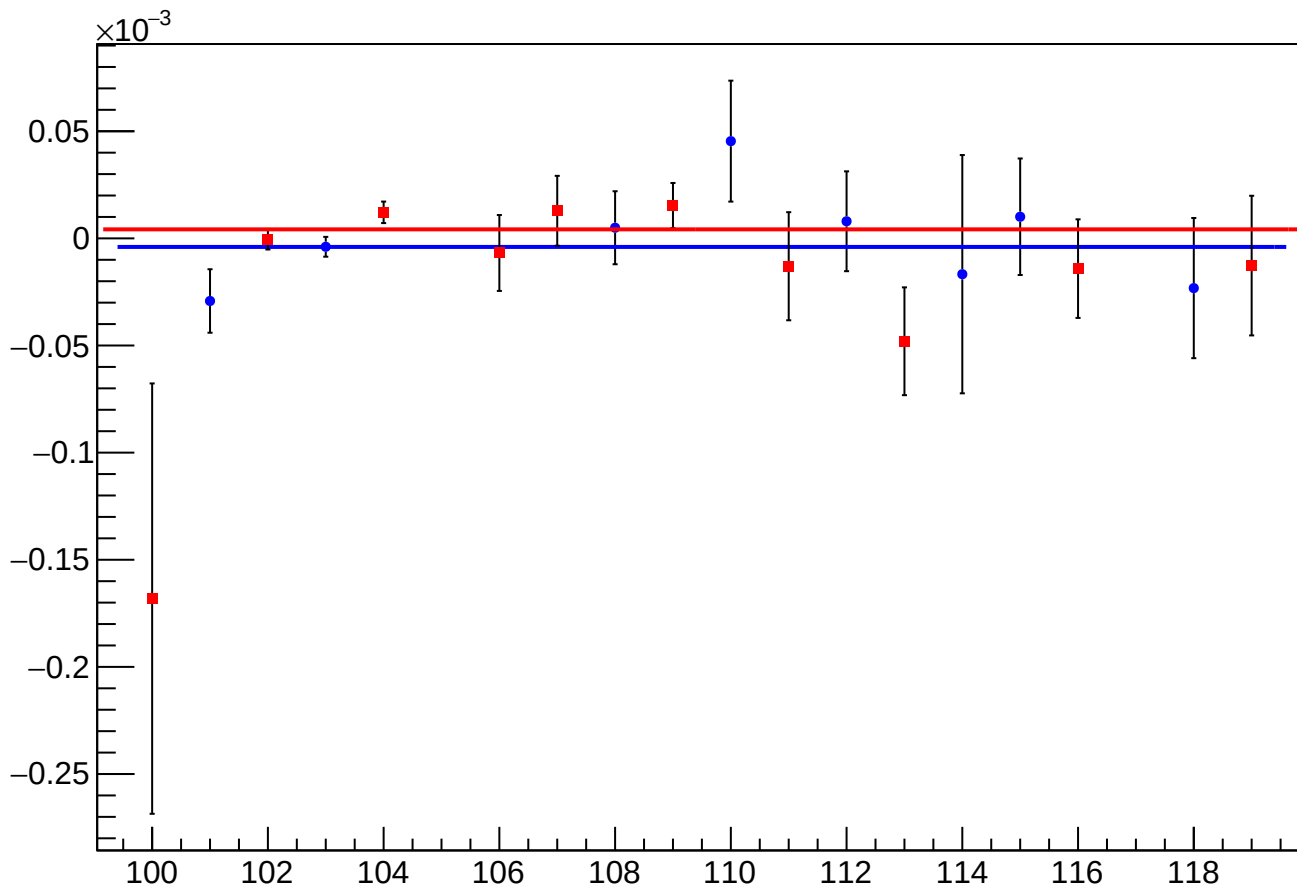
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 192.704+/-0.057  $\chi^2/\text{NDF}$ : 2212216.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 7.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.1/9

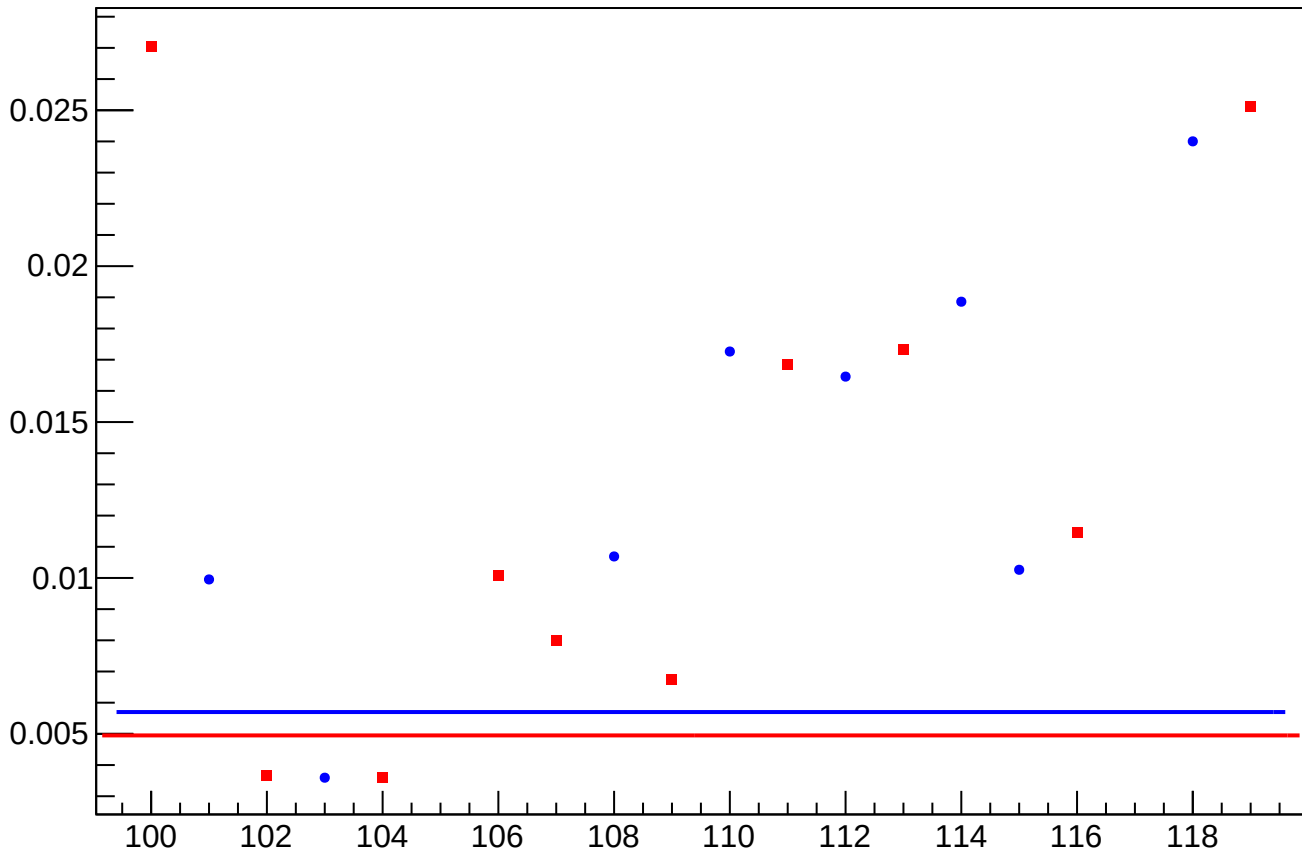
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 23.8/17

- 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: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2307303.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2547598.5/9

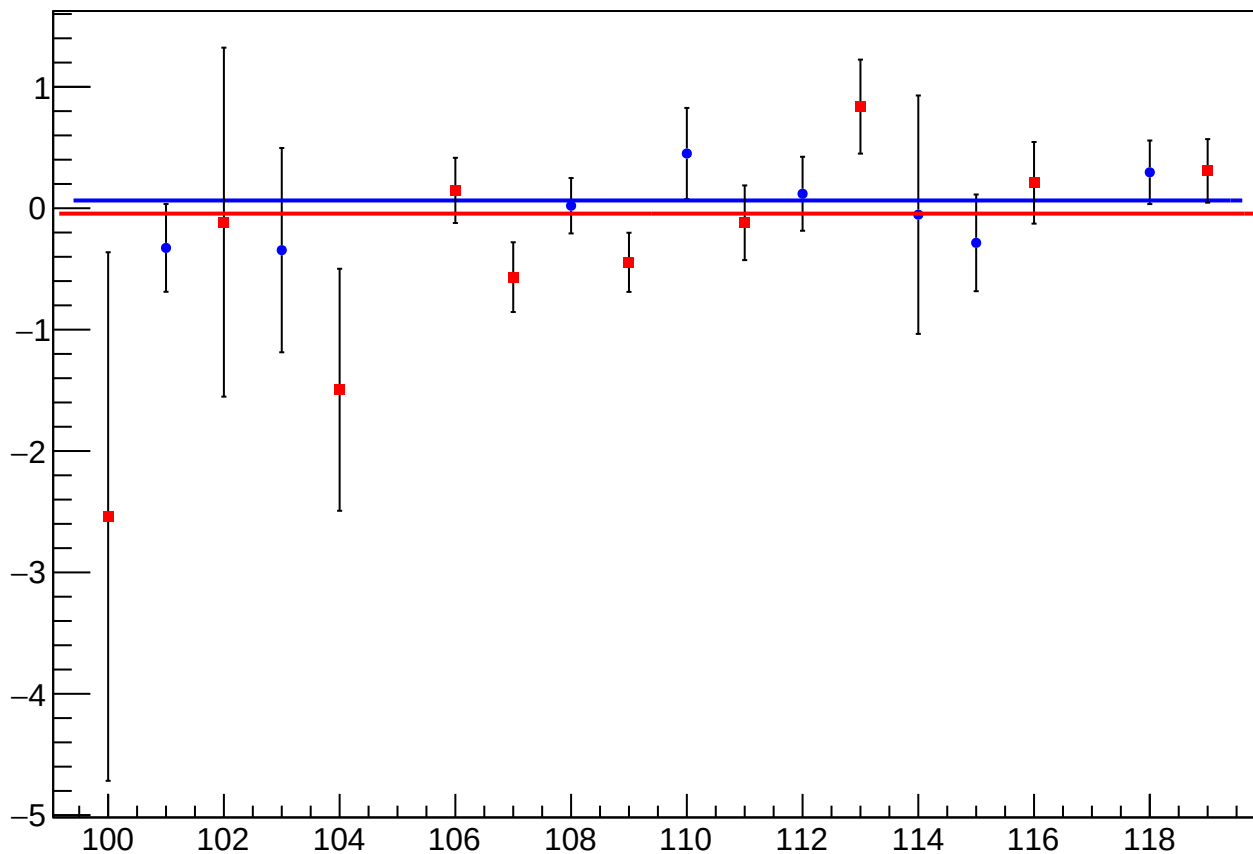
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 4898753.7/17

- 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: 0.064 $\pm$ 0.121  $\chi^2$ /NDF: 4.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.044 $\pm$ 0.108  $\chi^2$ /NDF: 17.6/9

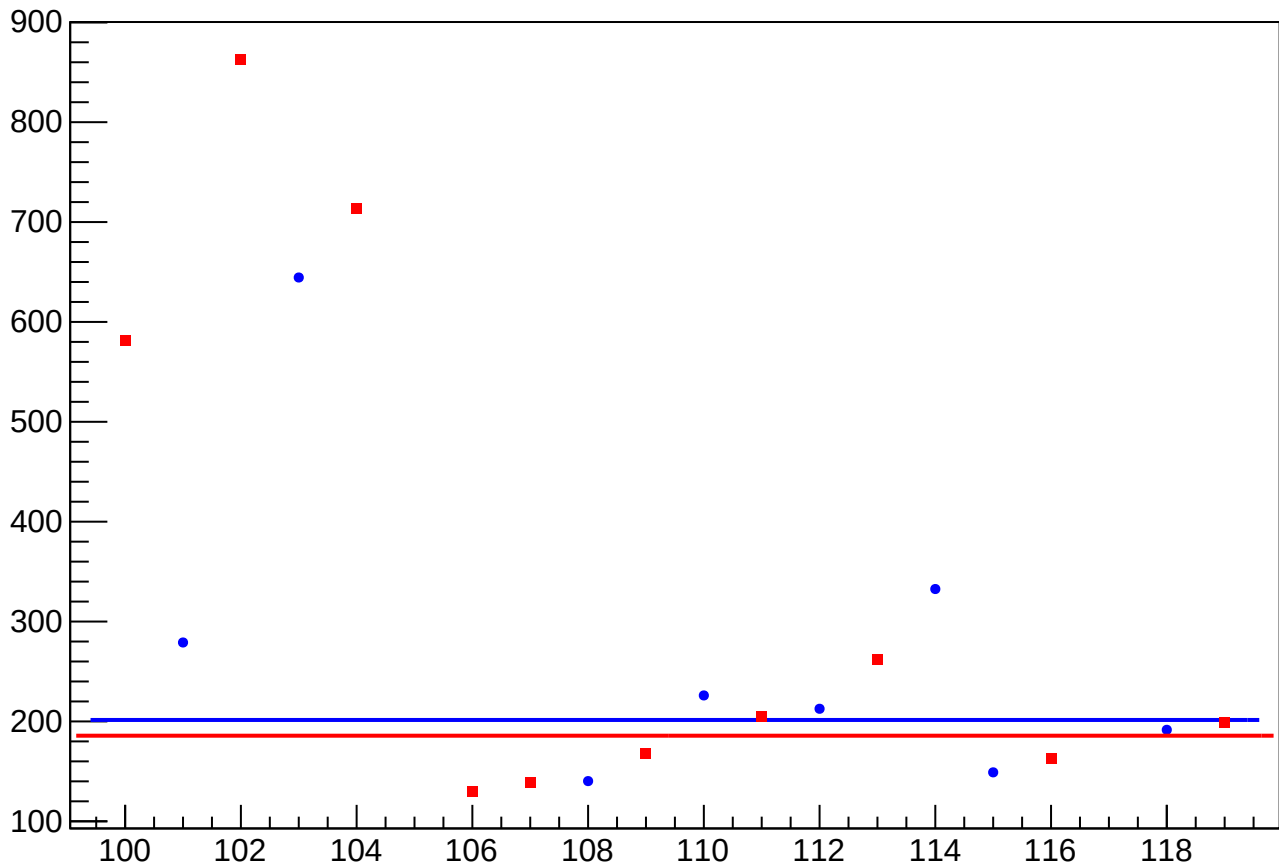
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.081  $\chi^2$ /NDF: 22.1/17

- 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: 201.462+/-0.086  $\chi^2/\text{NDF}$ : 874940.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 185.709+/-0.077  $\chi^2/\text{NDF}$ : 1318493.2/9

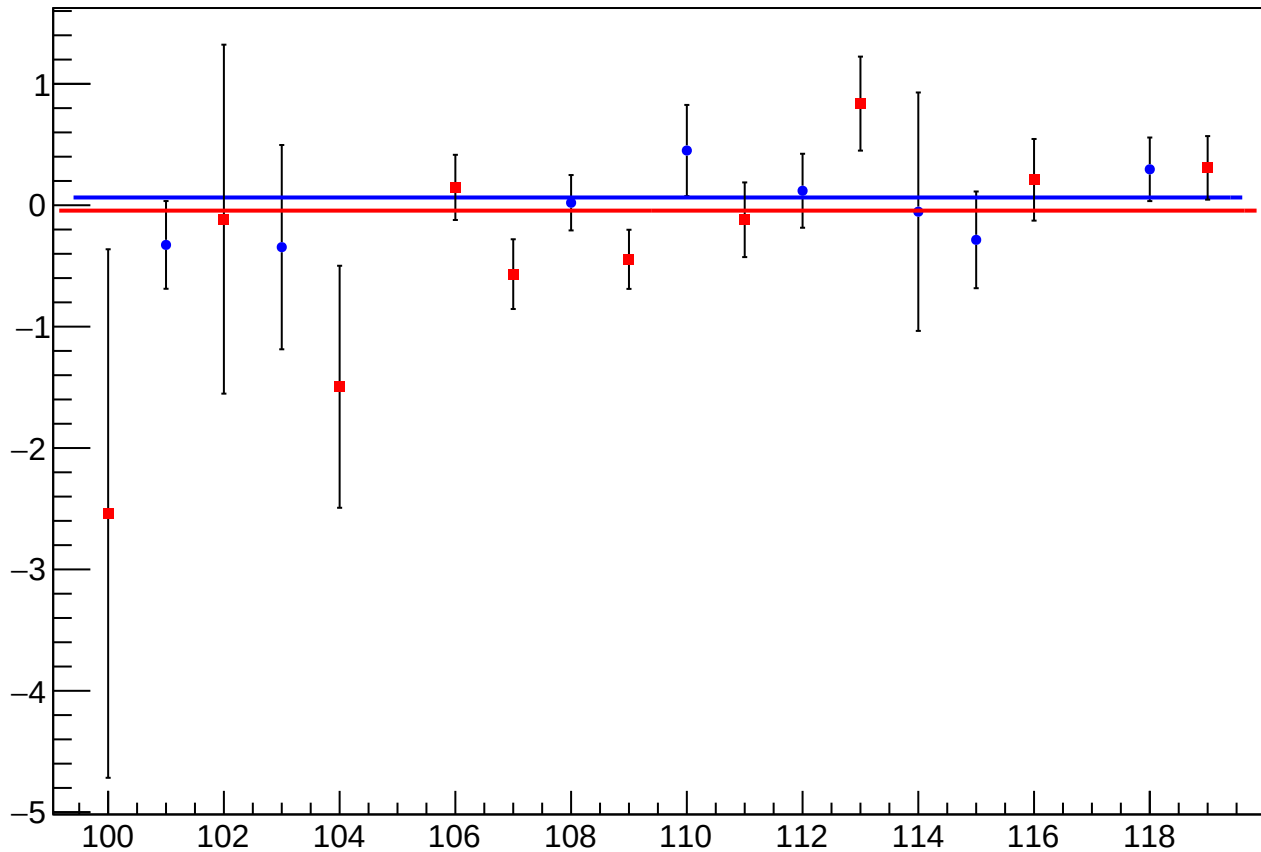
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 192.704+/-0.057  $\chi^2/\text{NDF}$ : 2212217.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.064 $\pm$ 0.121  $\chi^2$ /NDF: 4.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.044 $\pm$ 0.108  $\chi^2$ /NDF: 17.6/9

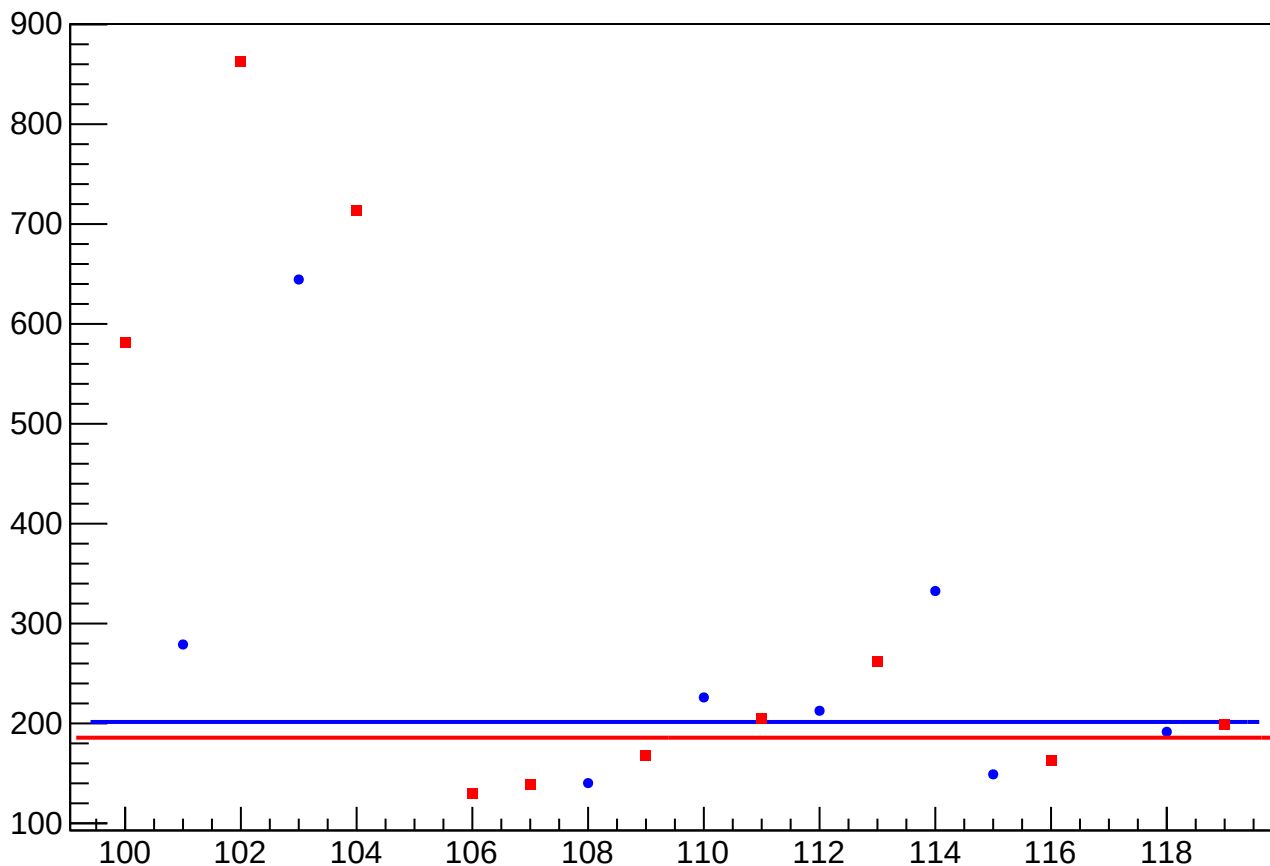
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.081  $\chi^2$ /NDF: 22.1/17

- 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:  $201.462 \pm 0.086$   $\chi^2/\text{NDF}: 874940.0/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $185.709 \pm 0.077$   $\chi^2/\text{NDF}: 1318493.2/9$

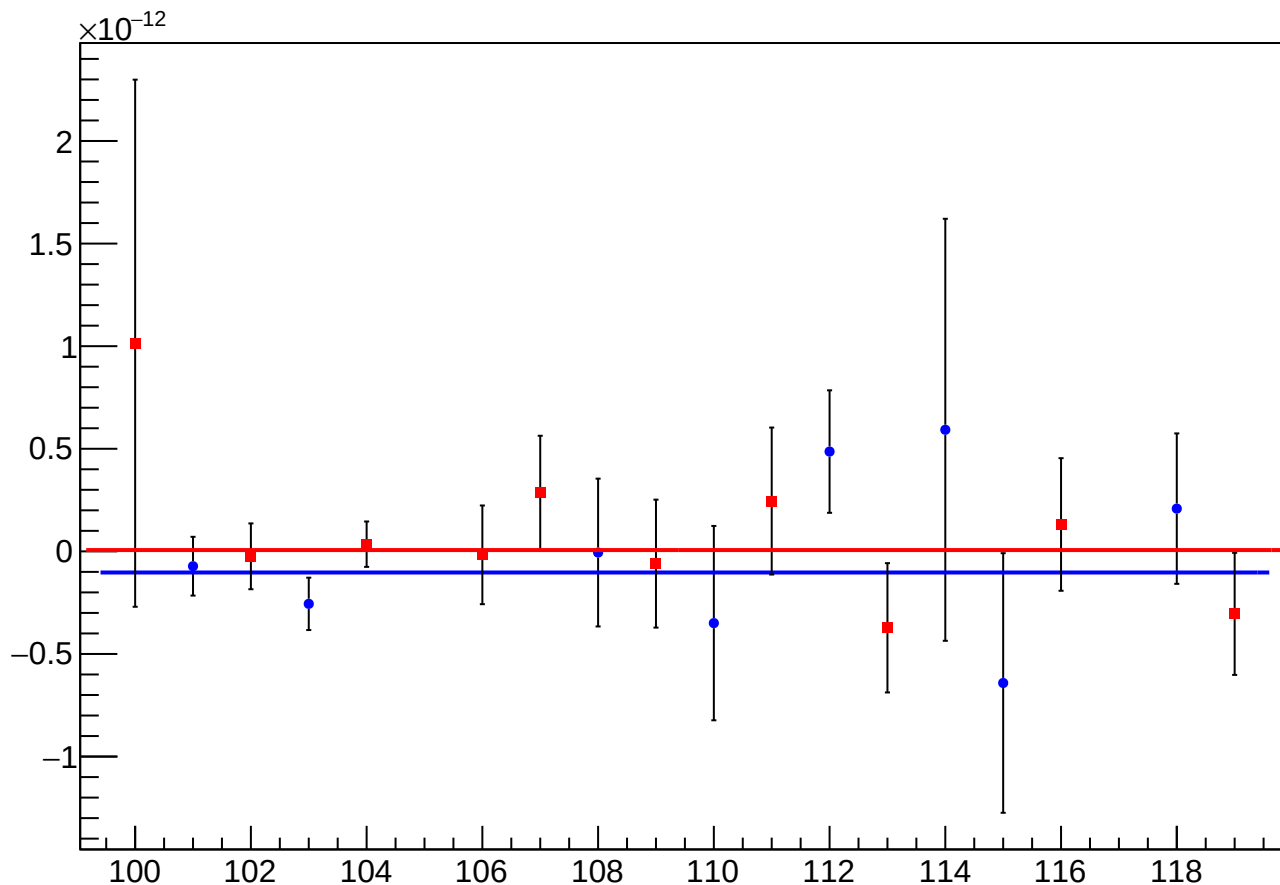
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $192.704 \pm 0.057$   $\chi^2/\text{NDF}: 2212217.9/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_usr\_atr2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.9/9

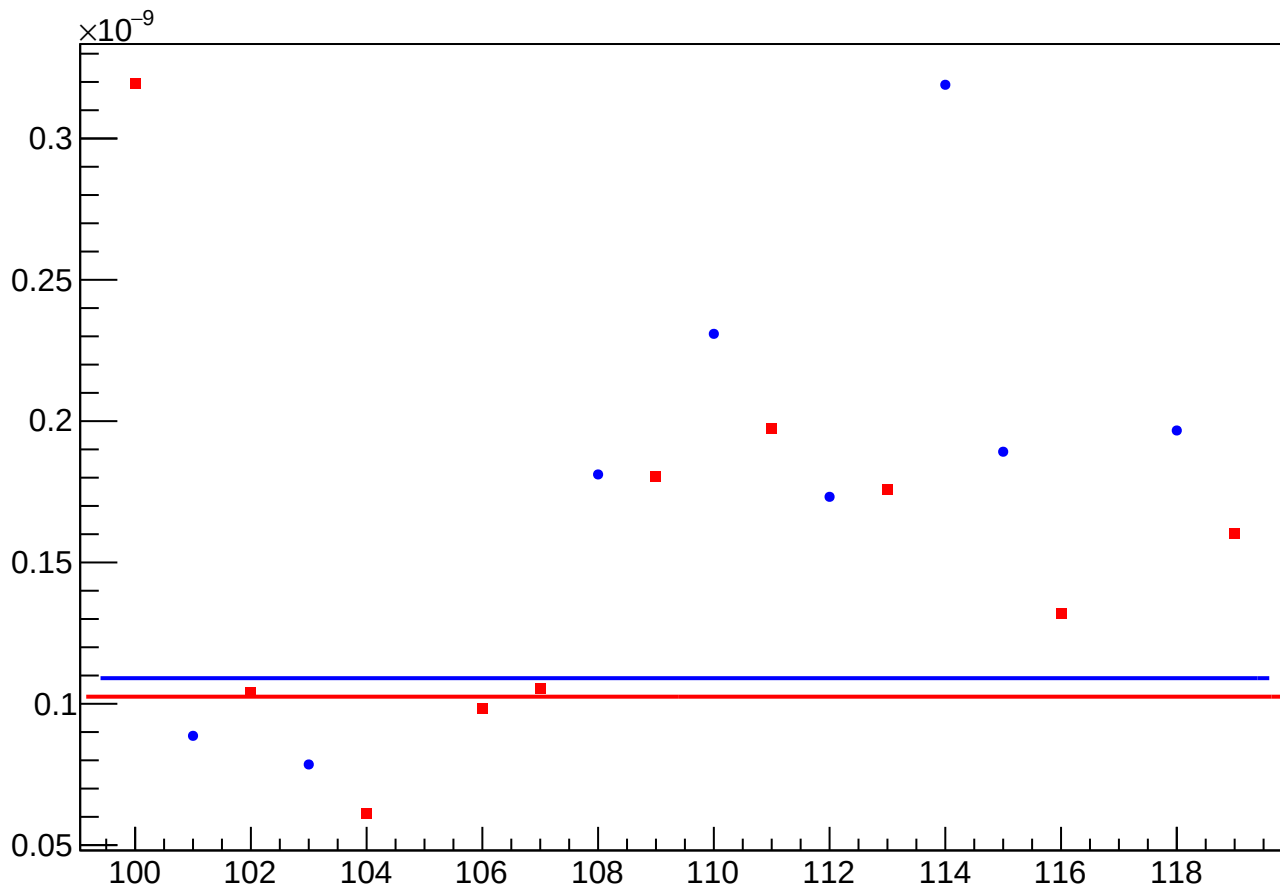
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.5/17

- 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  $\chi^2/\text{NDF}$ : 689714.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 804481.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

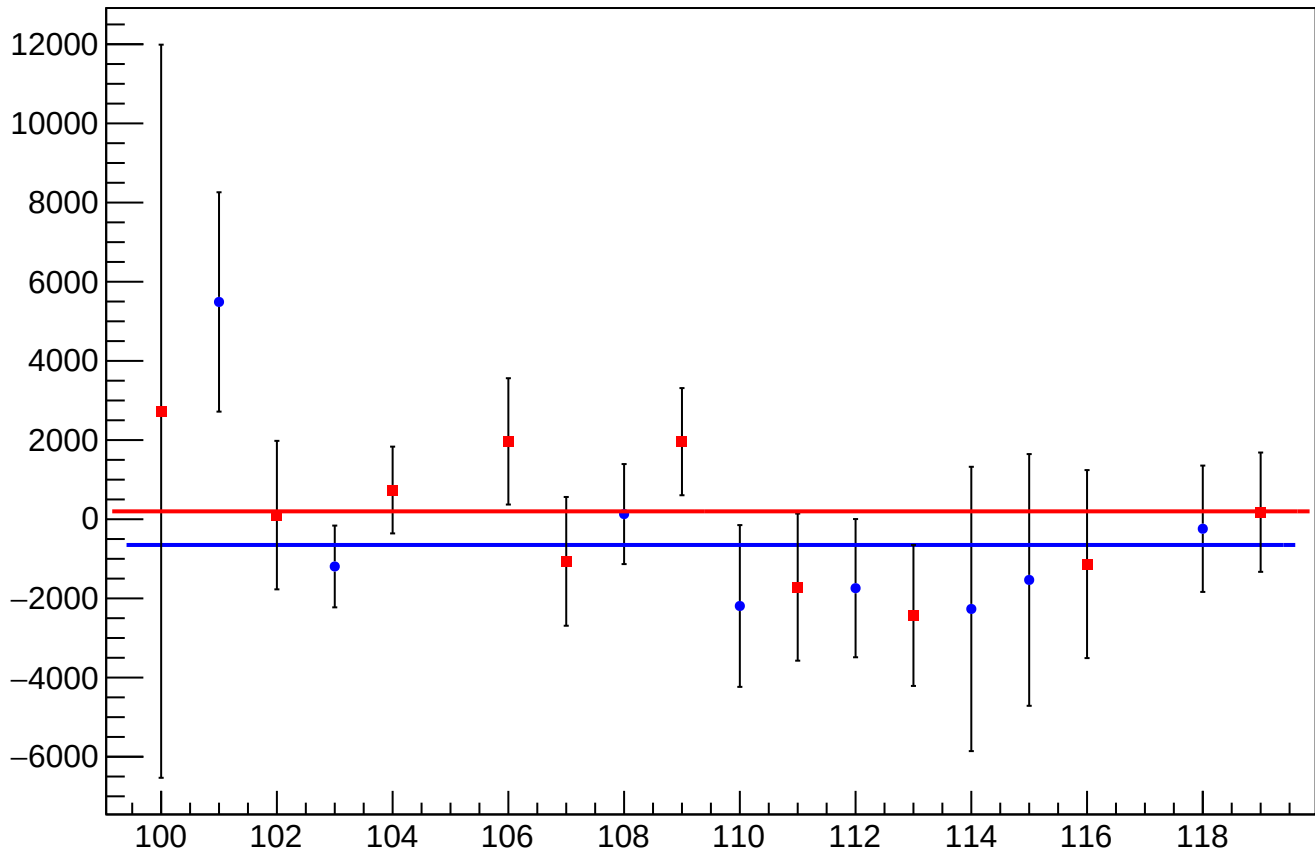
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1501396.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usr\_atr2\_dd\_mean vs Slug



Right In: -649.919+/-594.374  $\chi^2/\text{NDF}$ : 6.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 199.104+/-522.192  $\chi^2/\text{NDF}$ : 7.4/9

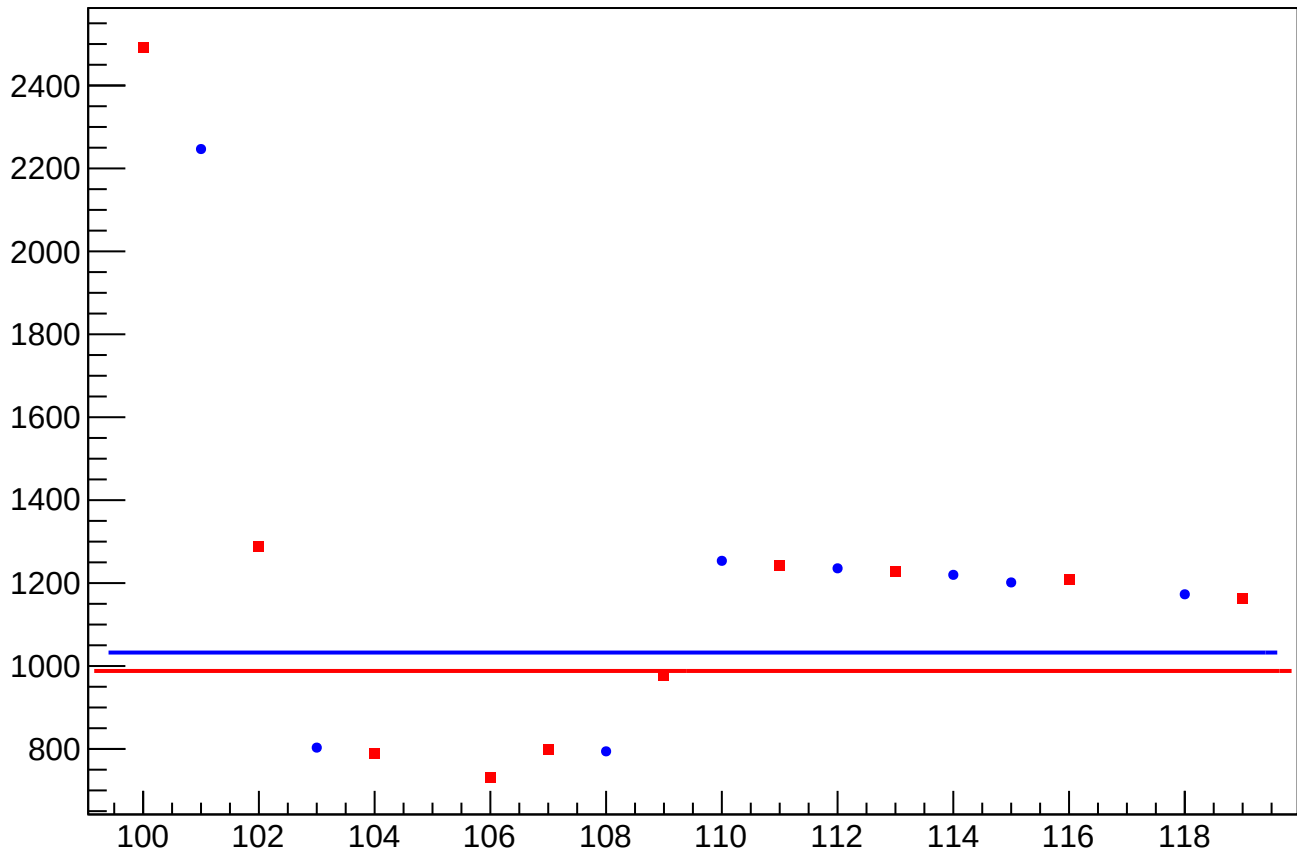
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -170.750+/-392.297  $\chi^2/\text{NDF}$ : 15.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 1032.496 $\pm$ 0.420  $\chi^2$ /NDF: 630848.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 988.086 $\pm$ 0.364  $\chi^2$ /NDF: 379820.6/9

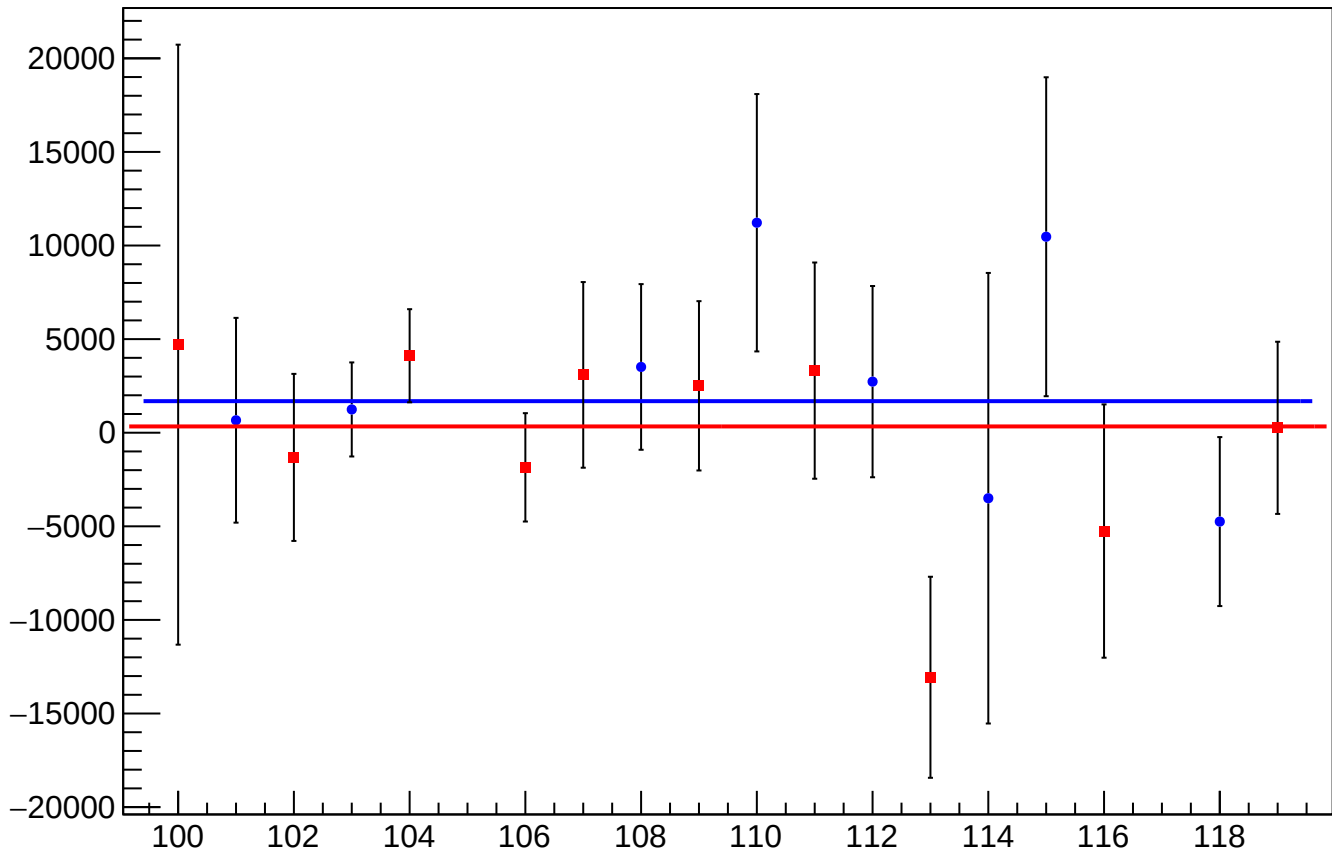
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1007.142 $\pm$ 0.275  $\chi^2$ /NDF: 1017043.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_dd\_reg\_correction\_mean vs Slug



Right In: 1686.290+/-1639.131  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 335.733+/-1338.252  $\chi^2/\text{NDF}$ : 10.8/9

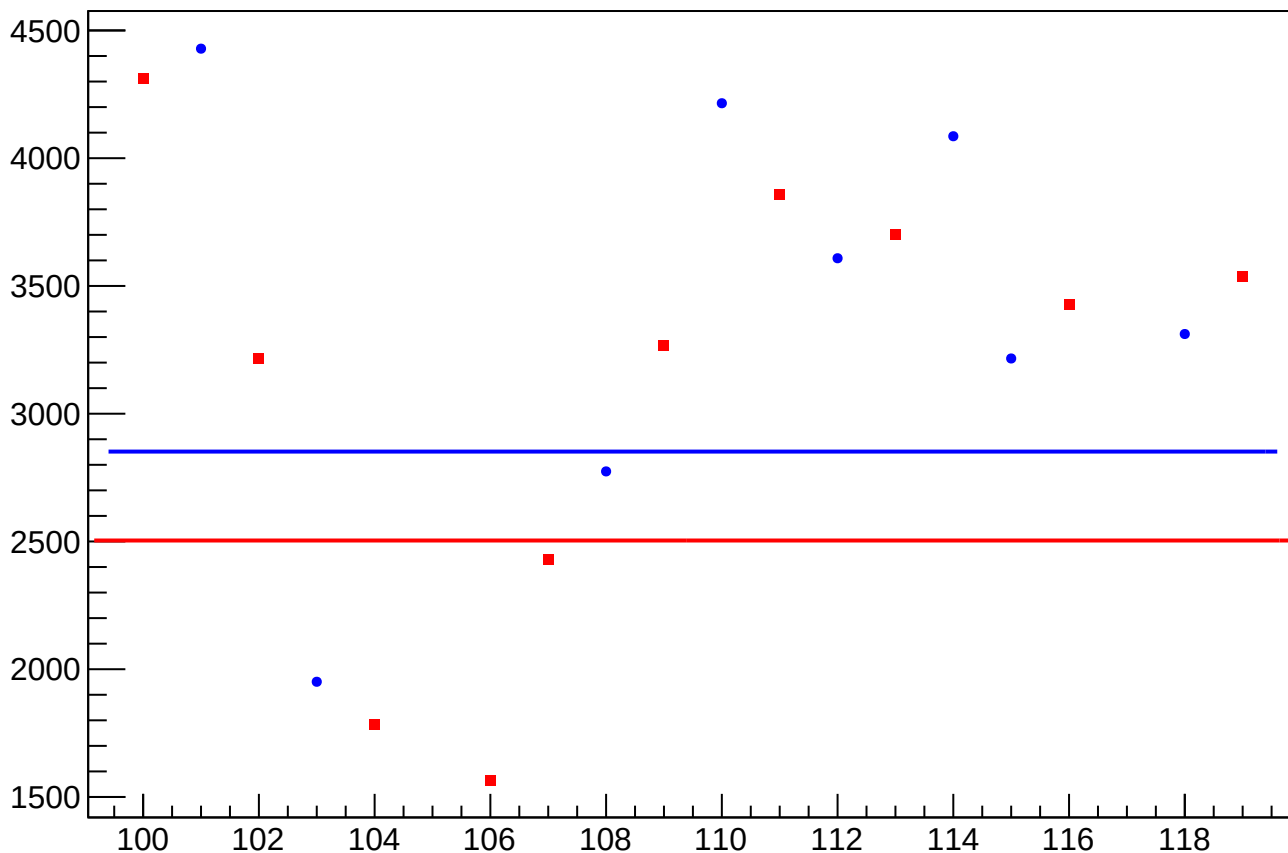
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 875.911+/-1036.635  $\chi^2/\text{NDF}$ : 16.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_reg\_correction\_rms vs Slug



Right In: 2851.790+/-1.159  $\chi^2/\text{NDF}$ : 592058.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2503.763+/-0.946  $\chi^2/\text{NDF}$ : 859090.1/9

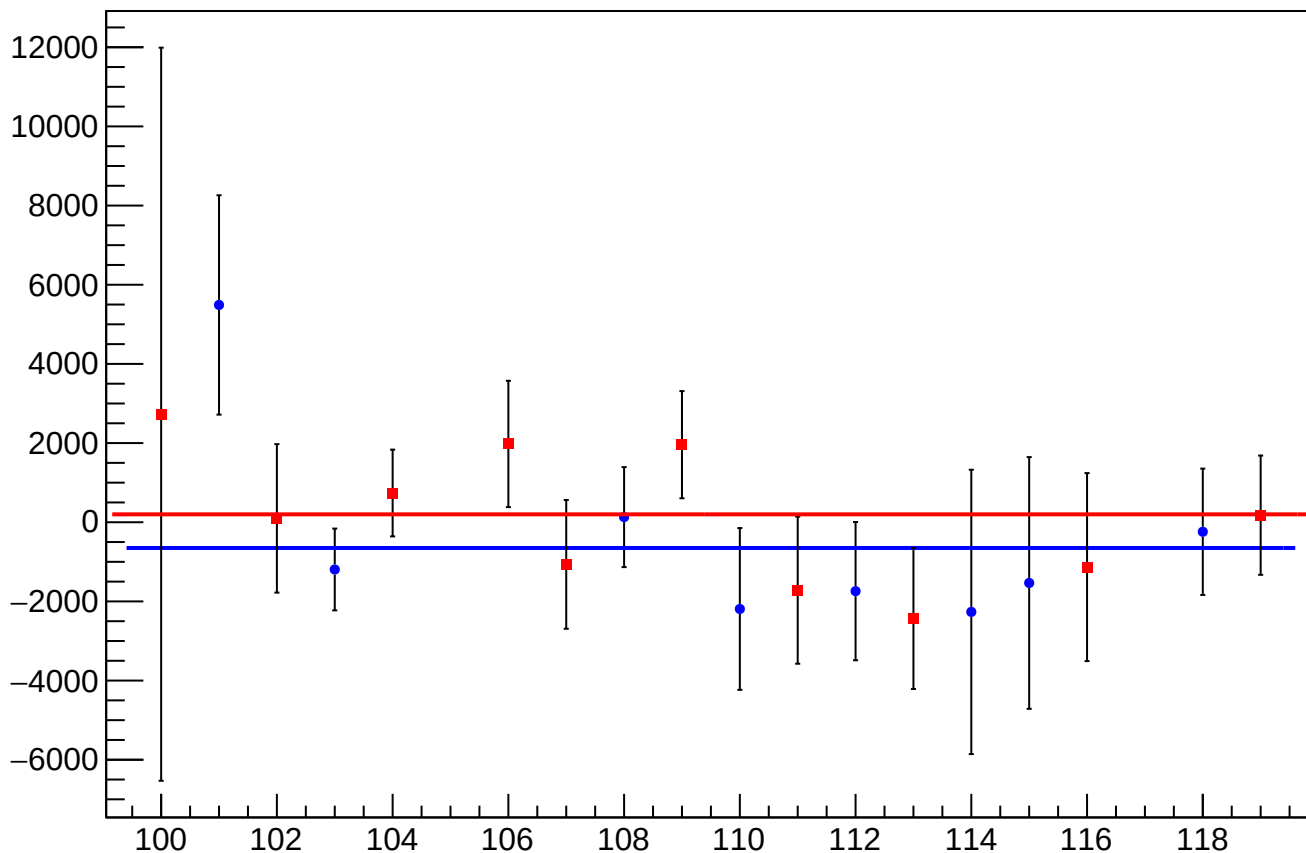
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2642.962+/-0.733  $\chi^2/\text{NDF}$ : 1505248.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usr\_atr2\_dd\_mean vs Slug



Right In: -649.820 $\pm$ 594.375  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 199.606 $\pm$ 522.201  $\chi^2$ /NDF: 7.4/9

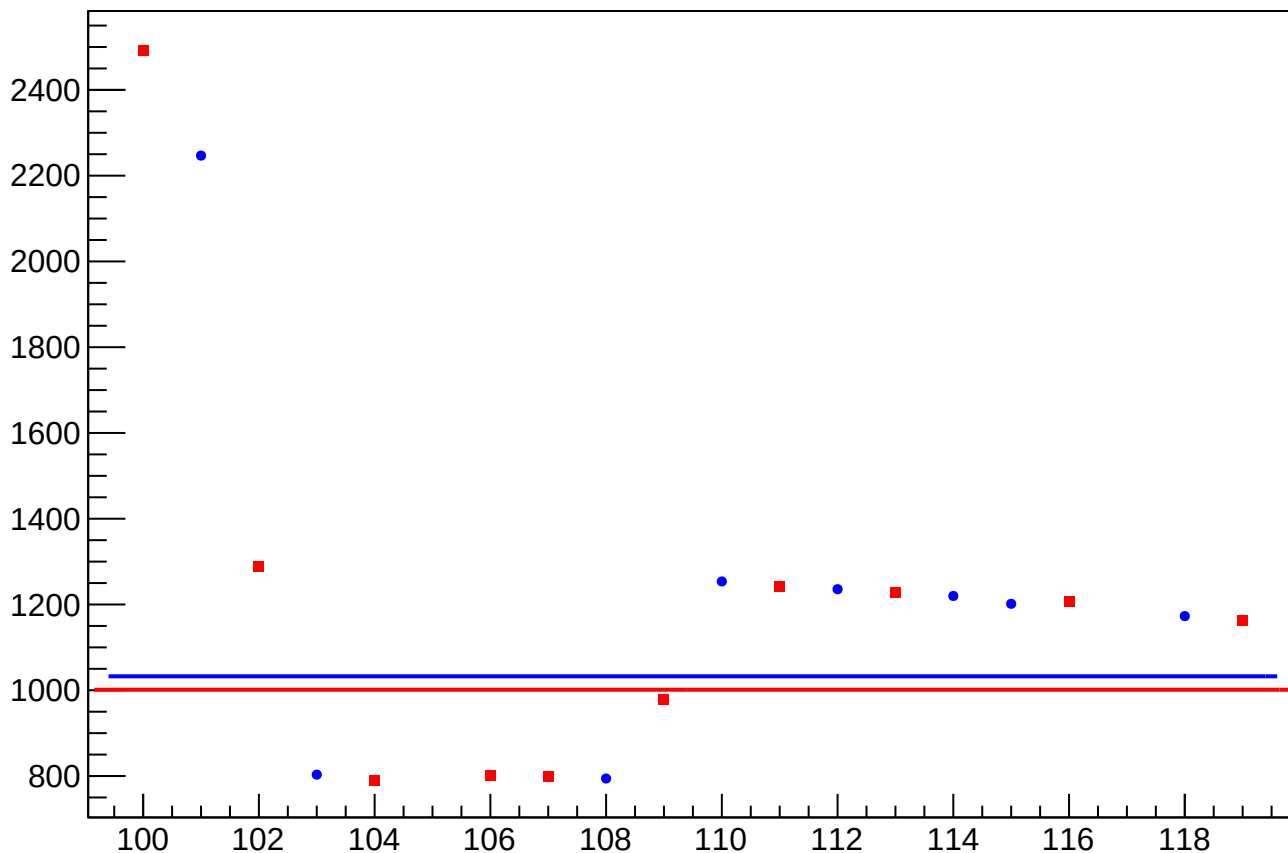
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -170.430 $\pm$ 392.301  $\chi^2$ /NDF: 15.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 1032.497+/-0.420  $\chi^2/\text{NDF}$ : 630845.9/7

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

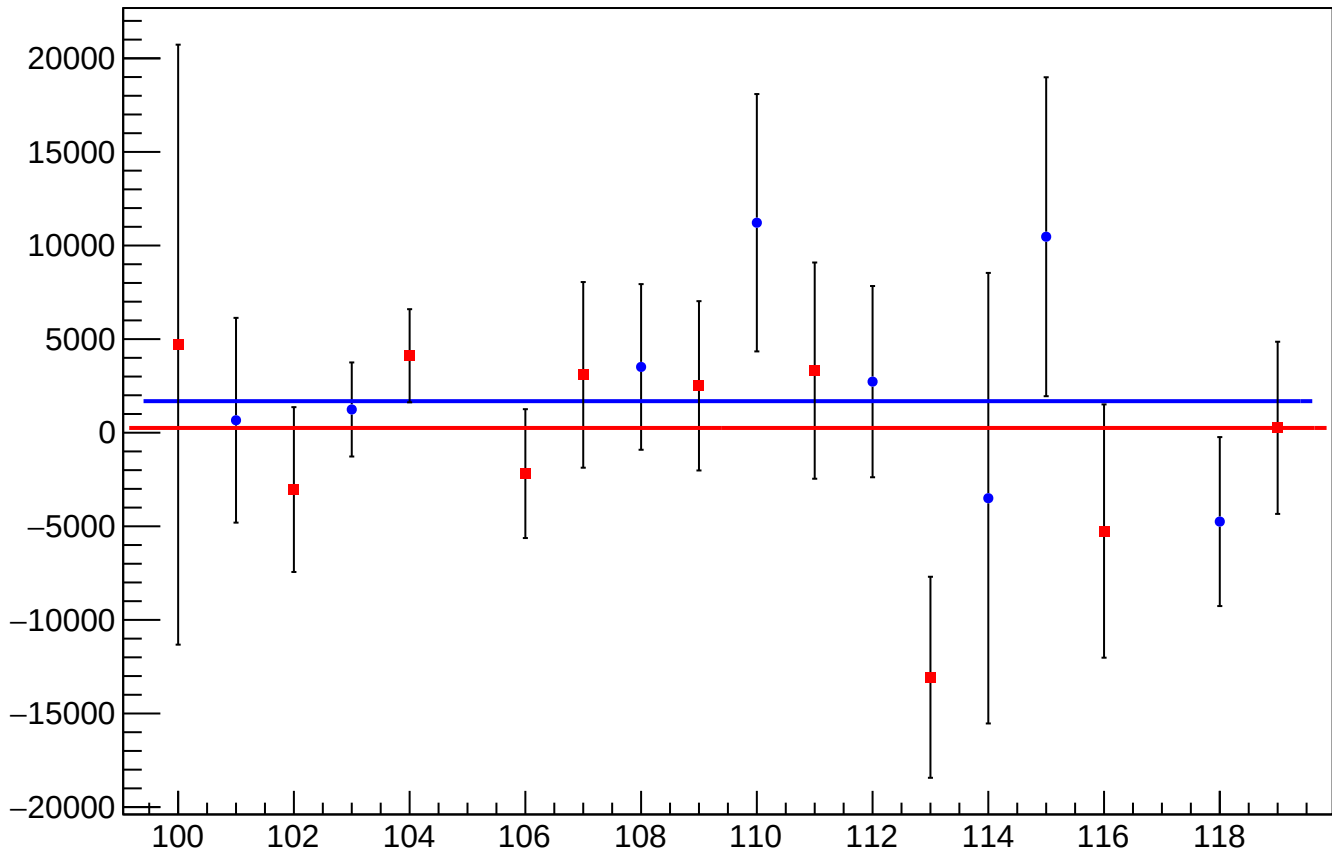
Right Out: 1001.212+/-0.368  $\chi^2/\text{NDF}$ : 342879.9/9

All: 1014.793+/-0.277  $\chi^2/\text{NDF}$ : 976861.3/17

- 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\_dd\_cor\_correction\_mean vs Slug



Right In: 1685.447+/-1639.249  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 254.166+/-1380.473  $\chi^2/\text{NDF}$ : 11.2/9

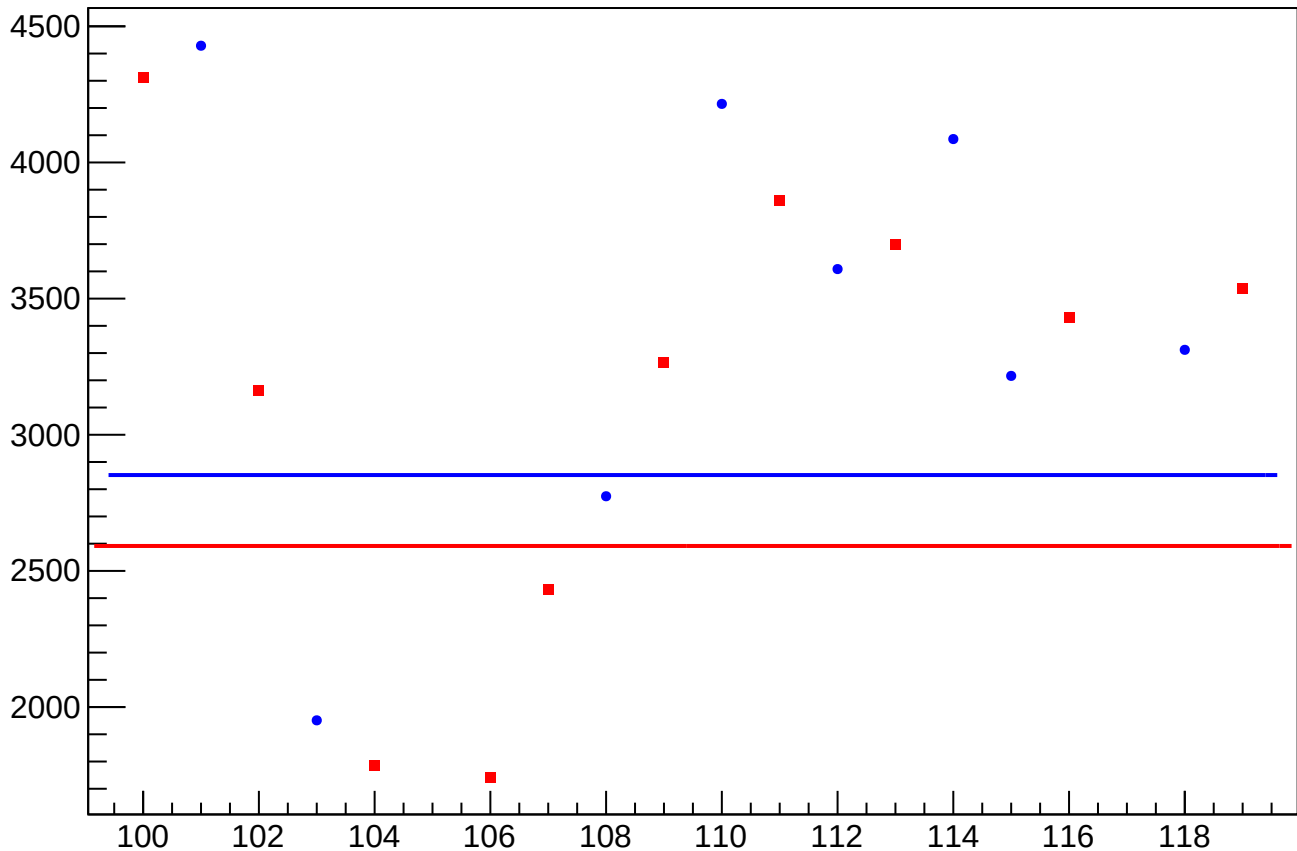
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 848.046+/-1055.922  $\chi^2/\text{NDF}$ : 17.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_cor\_correction\_rms vs Slug



Right In: 2852.070+/-1.159  $\chi^2/\text{NDF}$ : 591765.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2591.597+/-0.976  $\chi^2/\text{NDF}$ : 732531.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

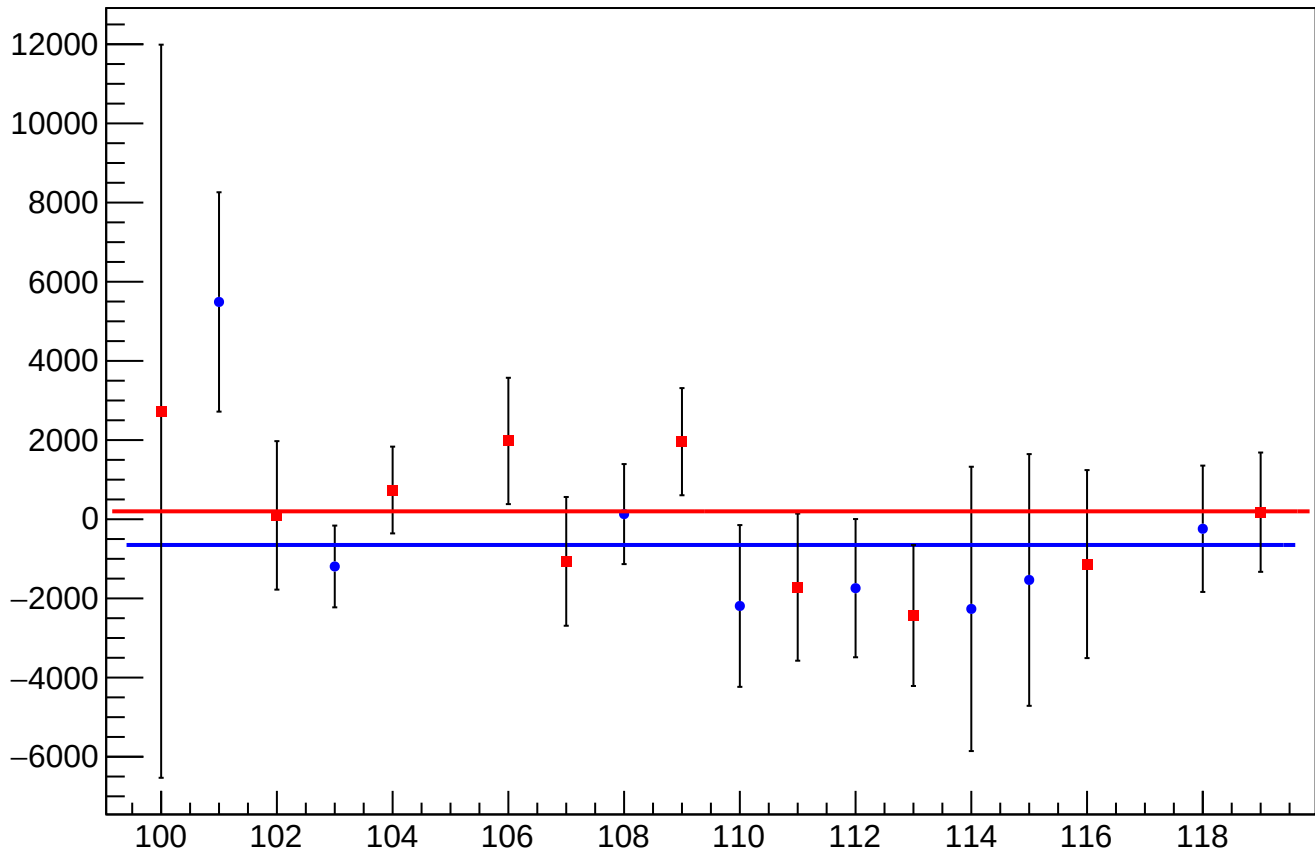
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2699.675+/-0.747  $\chi^2/\text{NDF}$ : 1353841.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_usr\_atr2\_dd\_mean vs Slug



Right In: -649.820+/-594.375  $\chi^2/\text{NDF}$ : 6.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 199.606+/-522.201  $\chi^2/\text{NDF}$ : 7.4/9

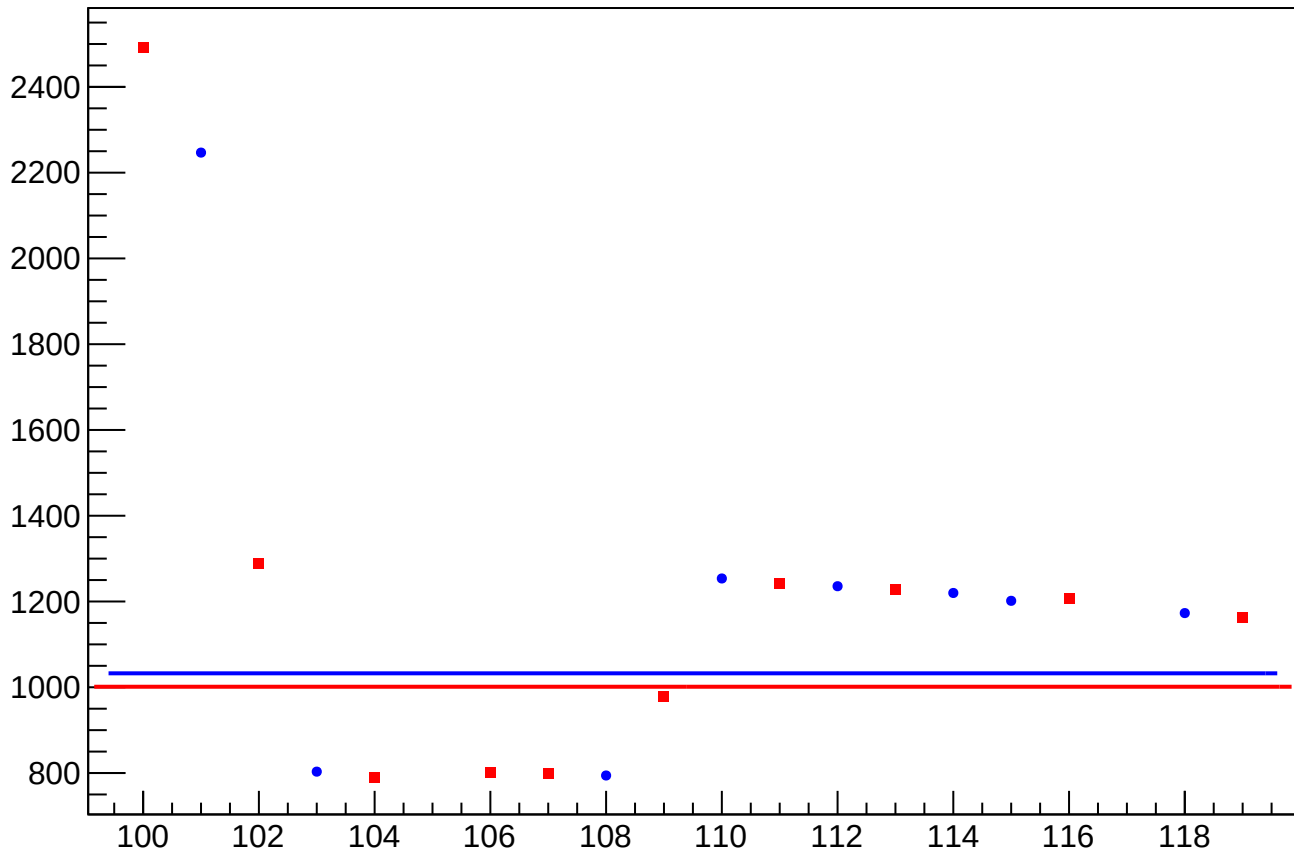
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -170.430+/-392.301  $\chi^2/\text{NDF}$ : 15.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 1032.497+/-0.420  $\chi^2/\text{NDF}$ : 630845.9/7

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

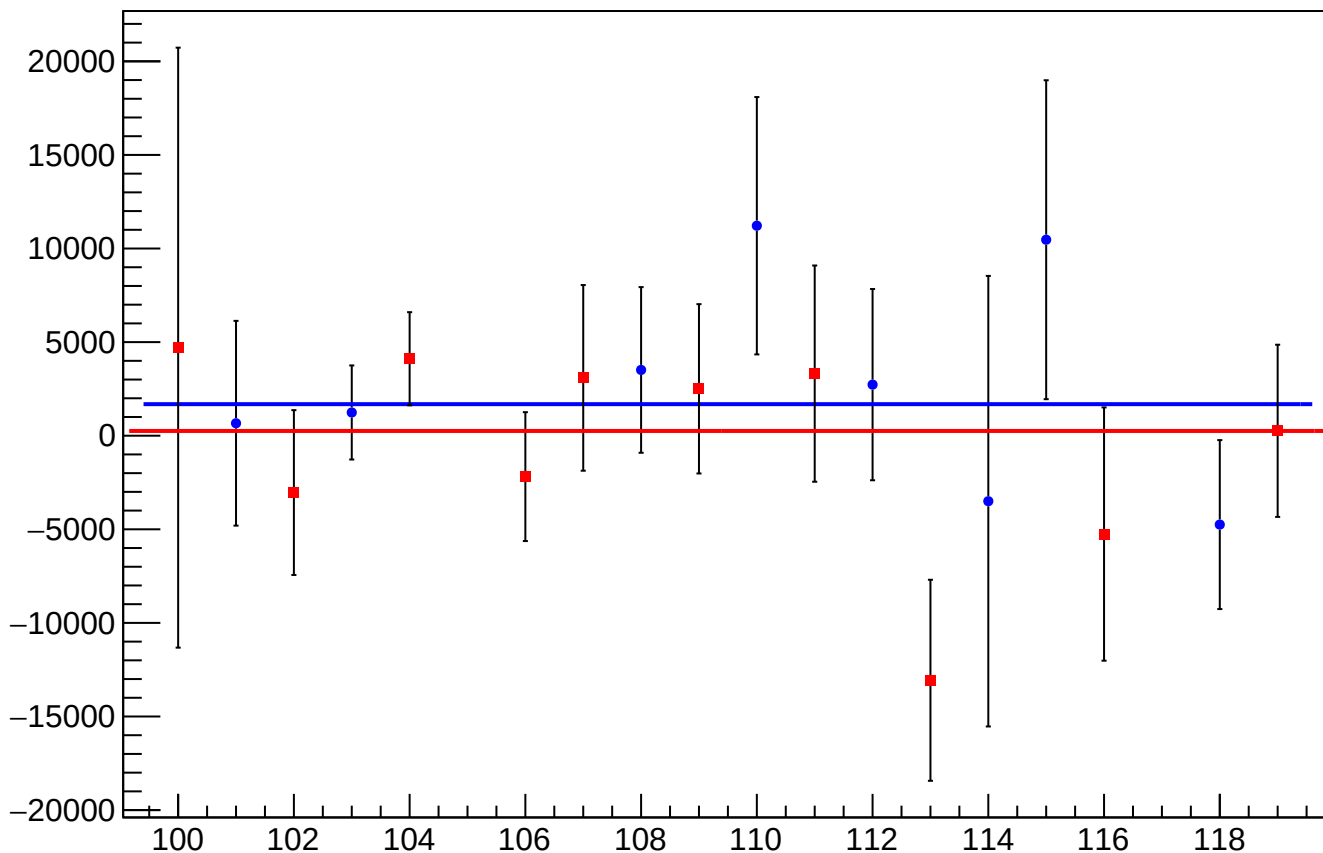
Right Out: 1001.212+/-0.368  $\chi^2/\text{NDF}$ : 342879.9/9

All: 1014.793+/-0.277  $\chi^2/\text{NDF}$ : 976861.3/17

- 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\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 1685.447+/-1639.249  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 254.166+/-1380.473  $\chi^2/\text{NDF}$ : 11.2/9

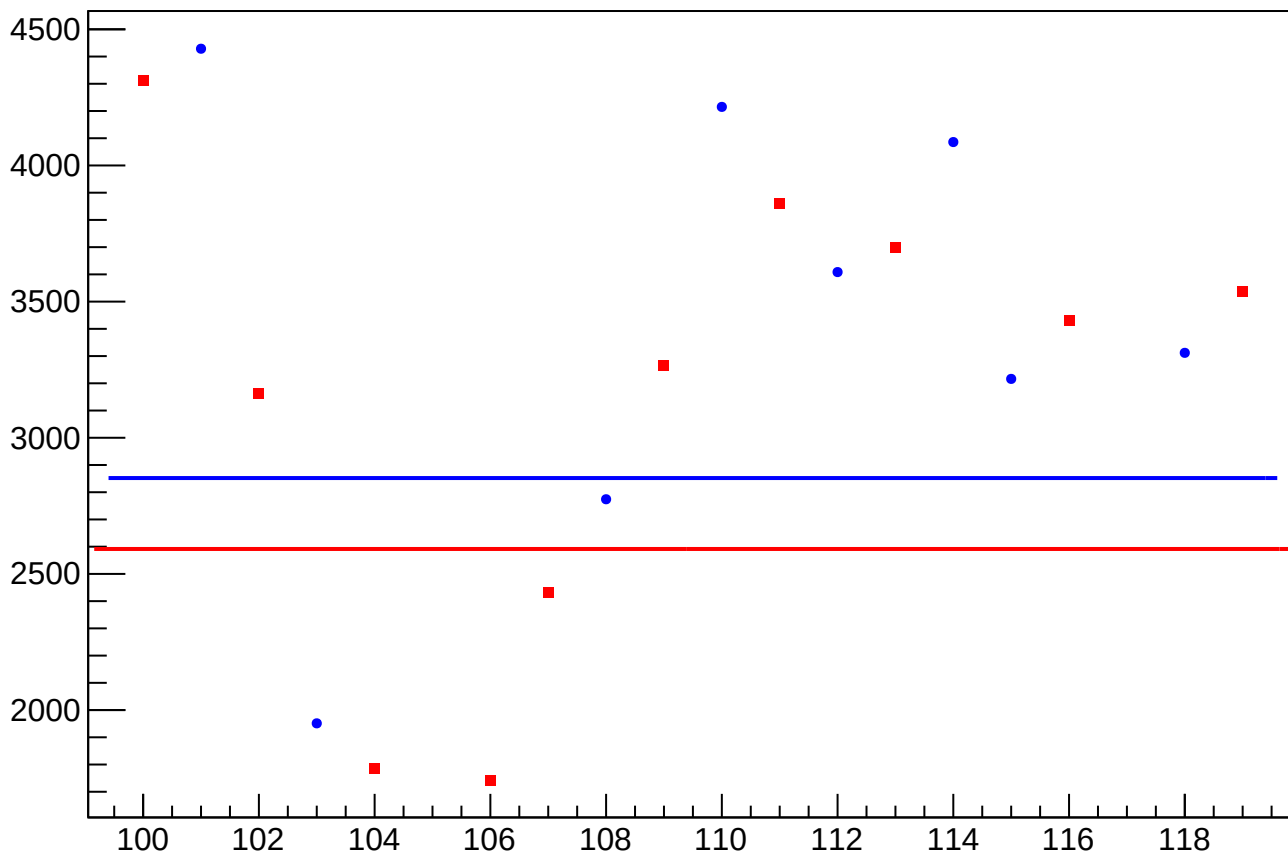
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 848.046+/-1055.922  $\chi^2/\text{NDF}$ : 17.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 2852.070+/-1.159  $\chi^2/\text{NDF}$ : 591765.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2591.597+/-0.976  $\chi^2/\text{NDF}$ : 732531.5/9

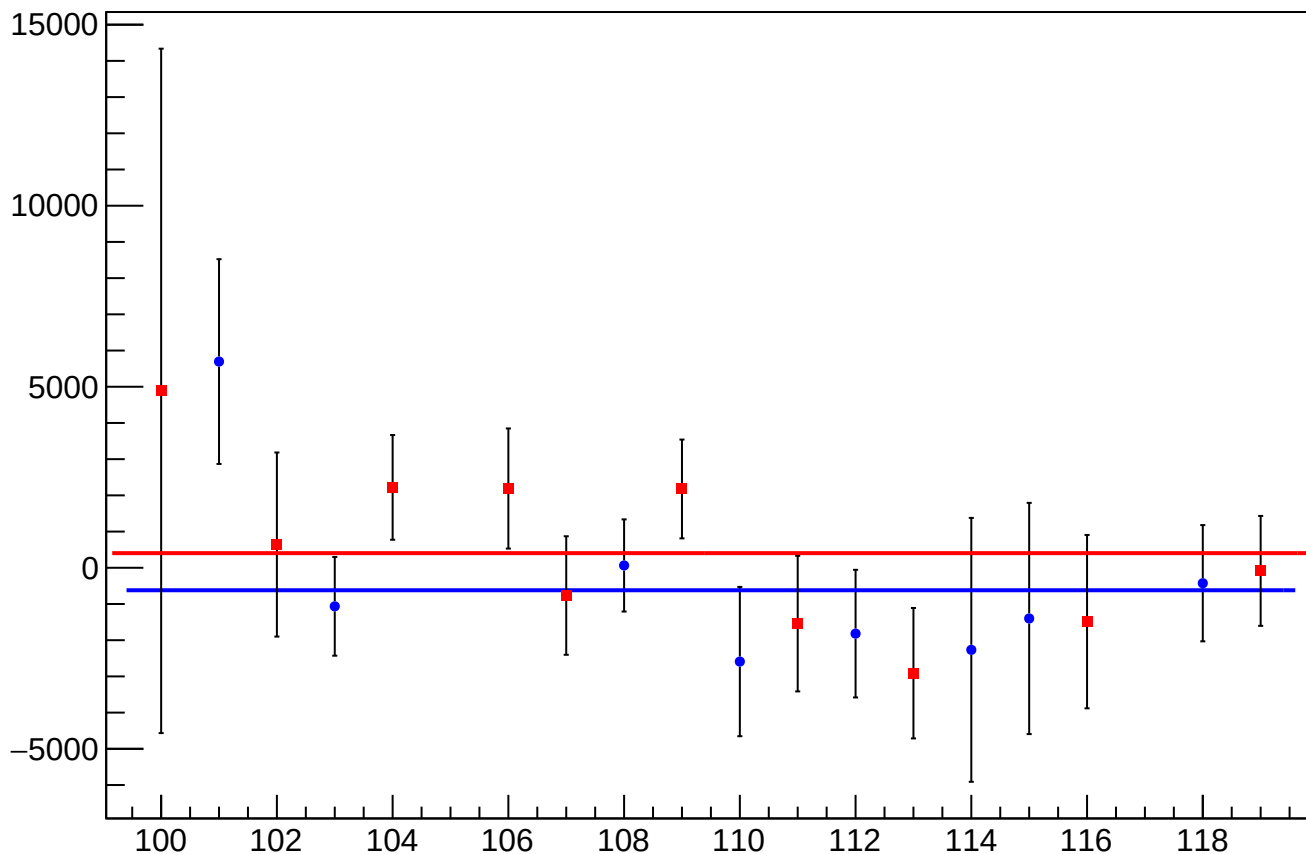
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2699.675+/-0.747  $\chi^2/\text{NDF}$ : 1353841.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usr\_atr2\_dd\_mean vs Slug



Right In: -620.595+/-645.661  $\chi^2/\text{NDF}$ : 7.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 404.289+/-566.150  $\chi^2/\text{NDF}$ : 10.4/9

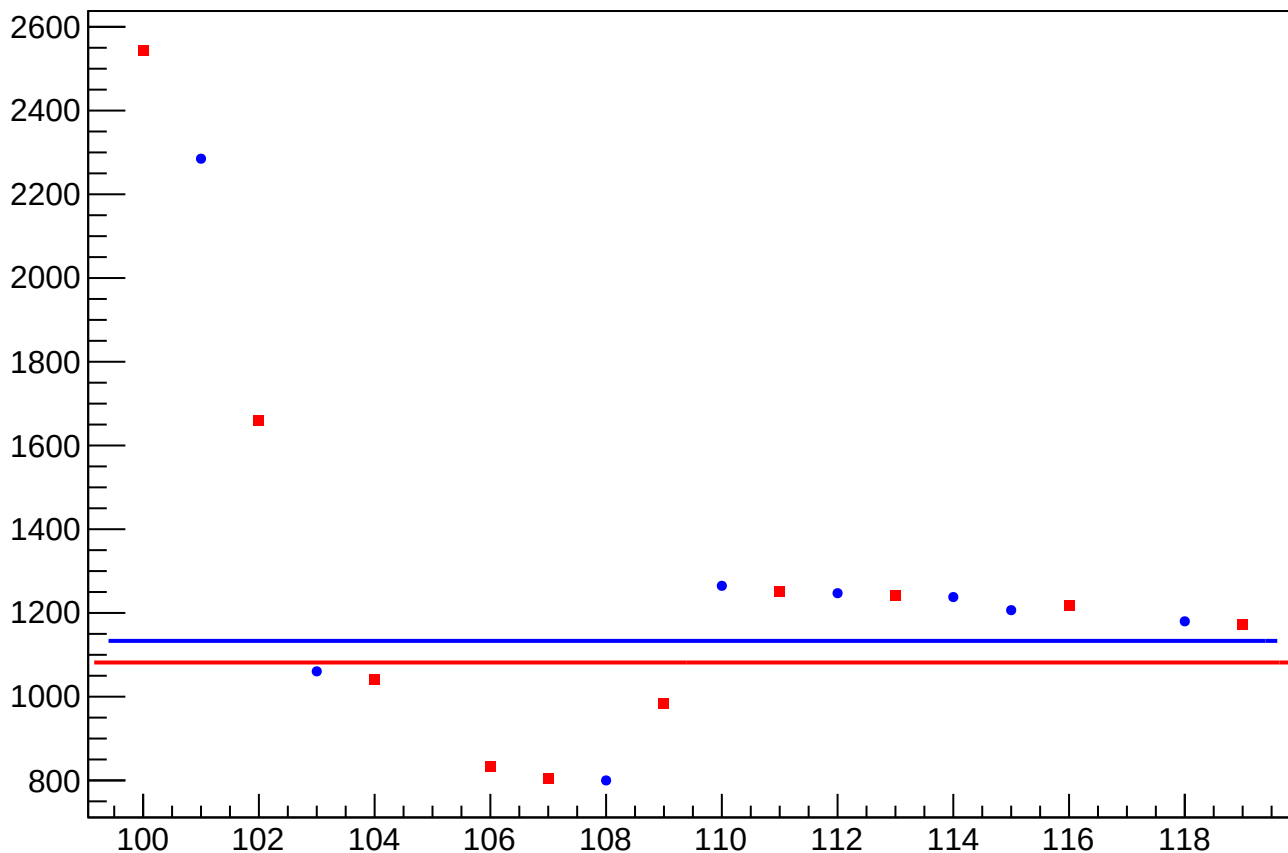
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -41.195+/-425.680  $\chi^2/\text{NDF}$ : 18.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 1133.265 $\pm$ 0.457  $\chi^2$ /NDF: 495594.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1081.640 $\pm$ 0.400  $\chi^2$ /NDF: 311648.3/9

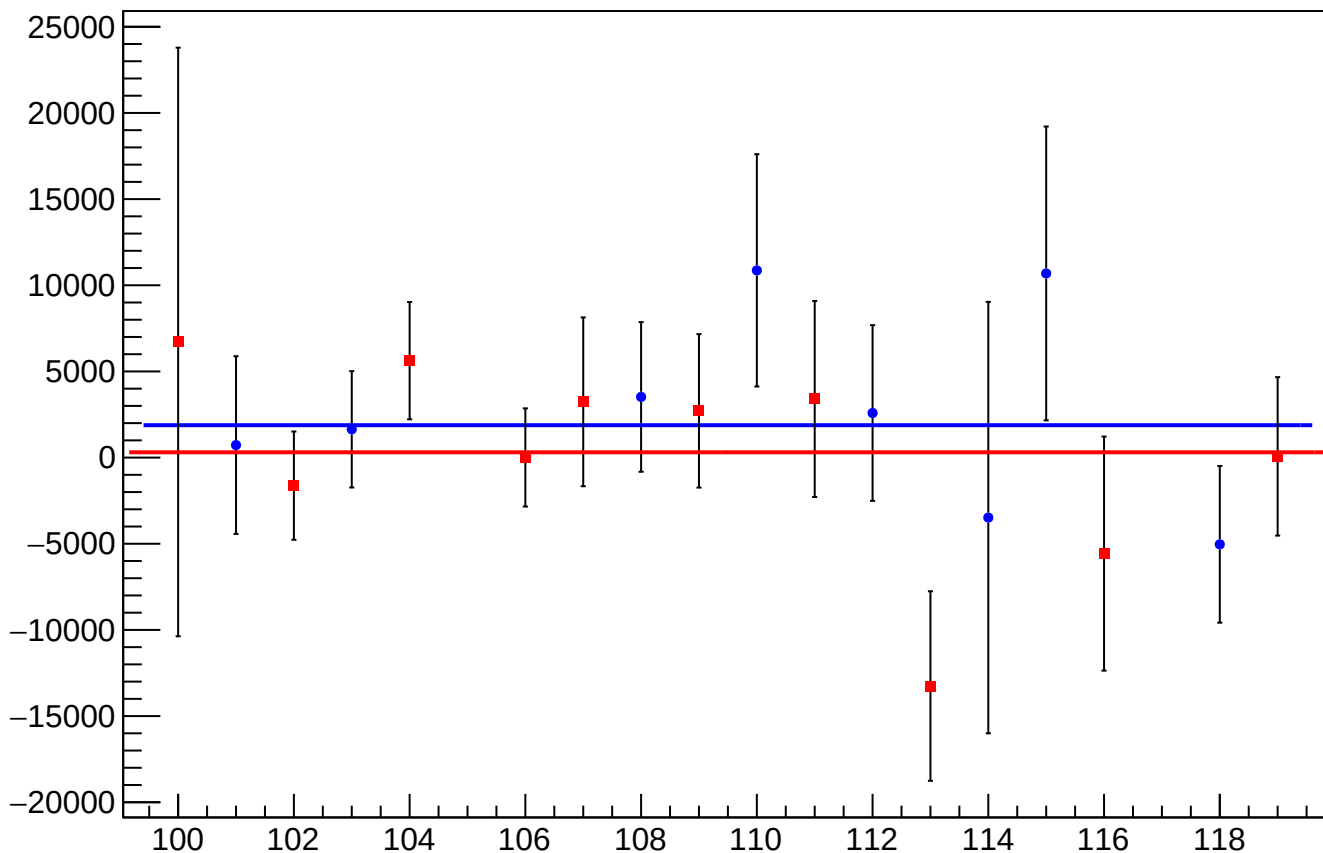
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1104.060 $\pm$ 0.301  $\chi^2$ /NDF: 814476.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_dd\_dit\_correction\_mean vs Slug



Right In: 1879.988+/-1803.714  $\chi^2/\text{NDF}$ : 5.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 307.121+/-1361.699  $\chi^2/\text{NDF}$ : 10.8/9

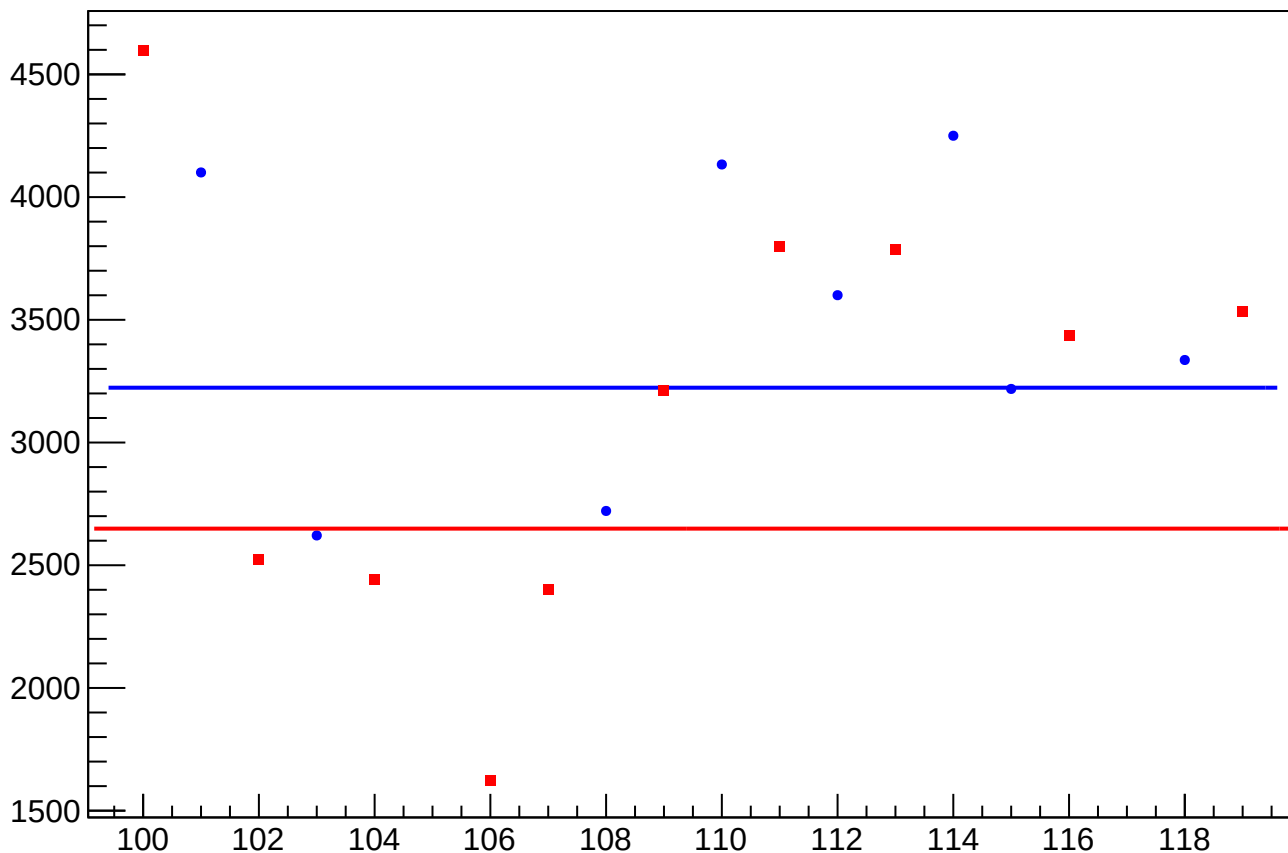
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 878.122+/-1086.776  $\chi^2/\text{NDF}$ : 16.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_dit\_correction\_rms vs Slug



Right In: 3223.410+/-1.275  $\chi^2/\text{NDF}$ : 210239.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2649.219+/-0.963  $\chi^2/\text{NDF}$ : 601112.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

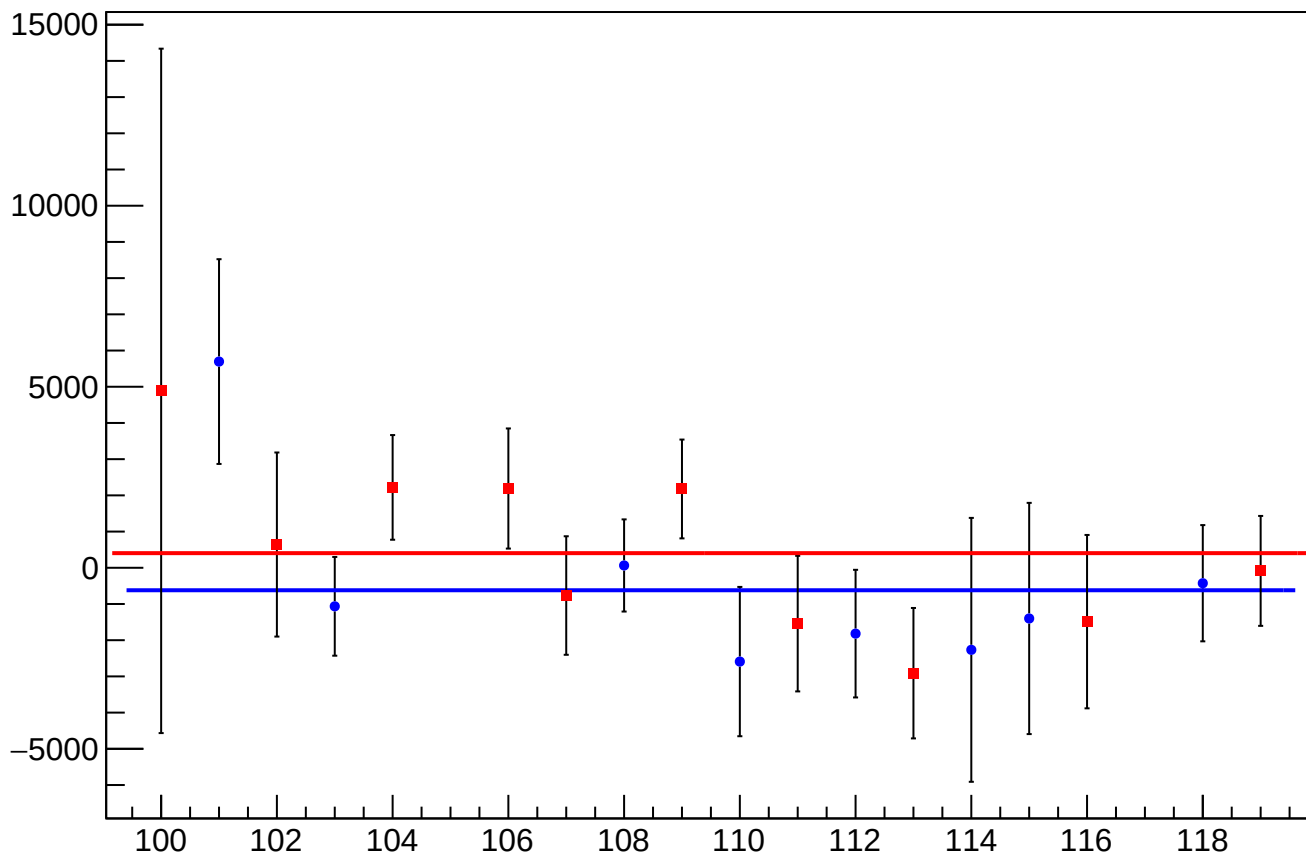
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2857.668+/-0.768  $\chi^2/\text{NDF}$ : 940451.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_usr\_atr2\_dd\_mean vs Slug



Right In: -620.592+/-645.661  $\chi^2/\text{NDF}$ : 7.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 404.292+/-566.150  $\chi^2/\text{NDF}$ : 10.4/9

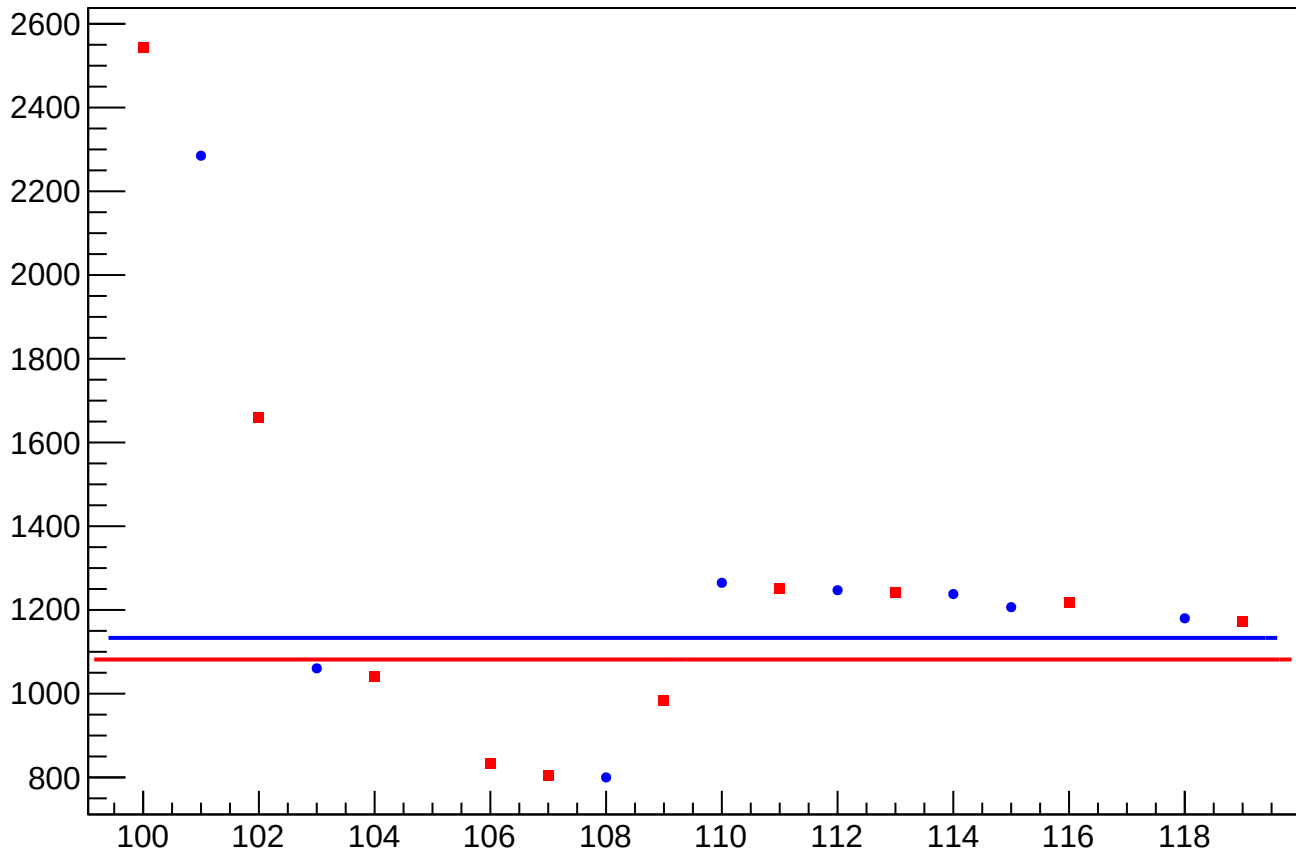
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -41.192+/-425.680  $\chi^2/\text{NDF}$ : 18.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 1133.265 $\pm$ 0.457  $\chi^2$ /NDF: 495594.7/7

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

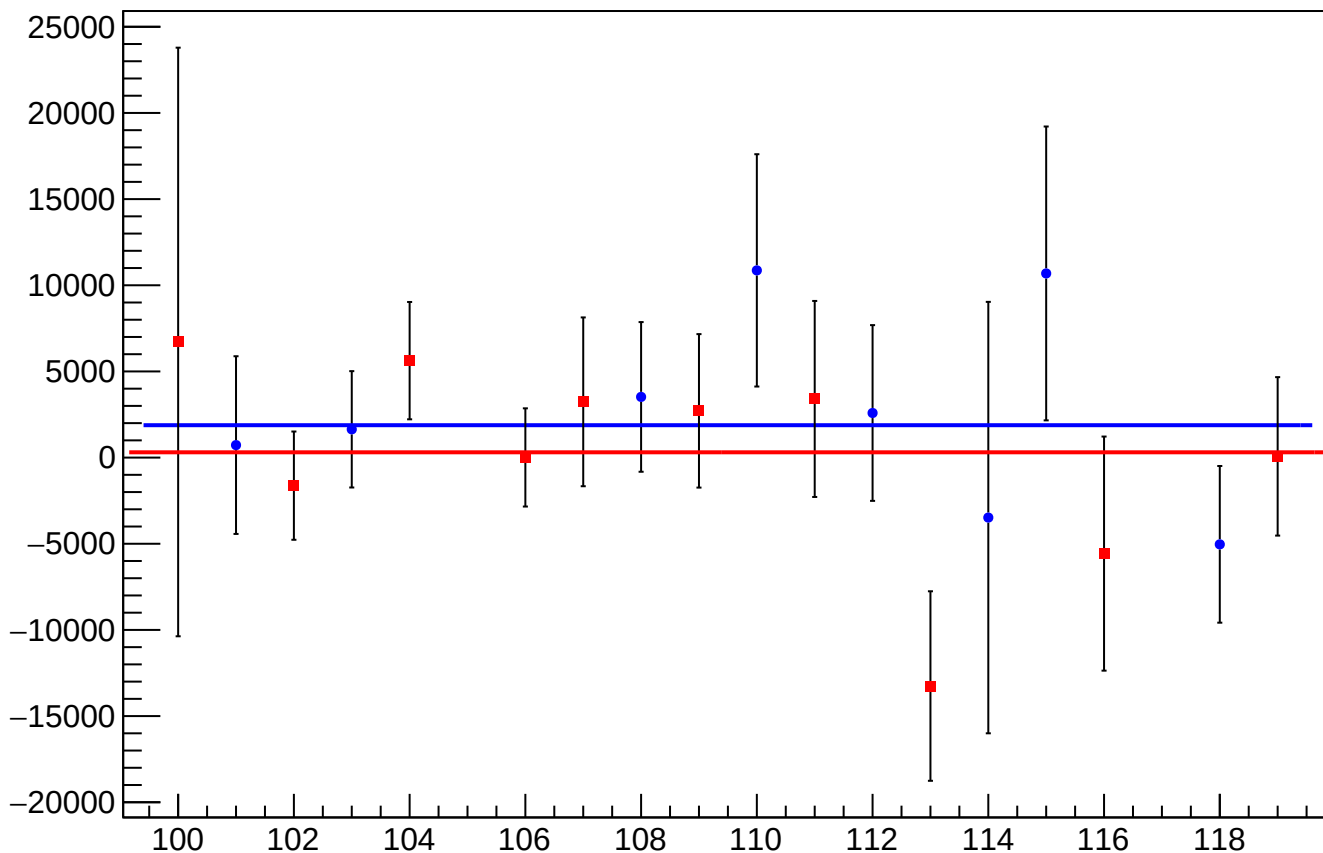
Right Out: 1081.640 $\pm$ 0.400  $\chi^2$ /NDF: 311648.2/9

All: 1104.060 $\pm$ 0.301  $\chi^2$ /NDF: 814476.2/17

- 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\_eigen\_dit\_correction\_mean vs Slug



Right In: 1879.985+/-1803.713  $\chi^2/\text{NDF}$ : 5.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 307.129+/-1361.697  $\chi^2/\text{NDF}$ : 10.8/9

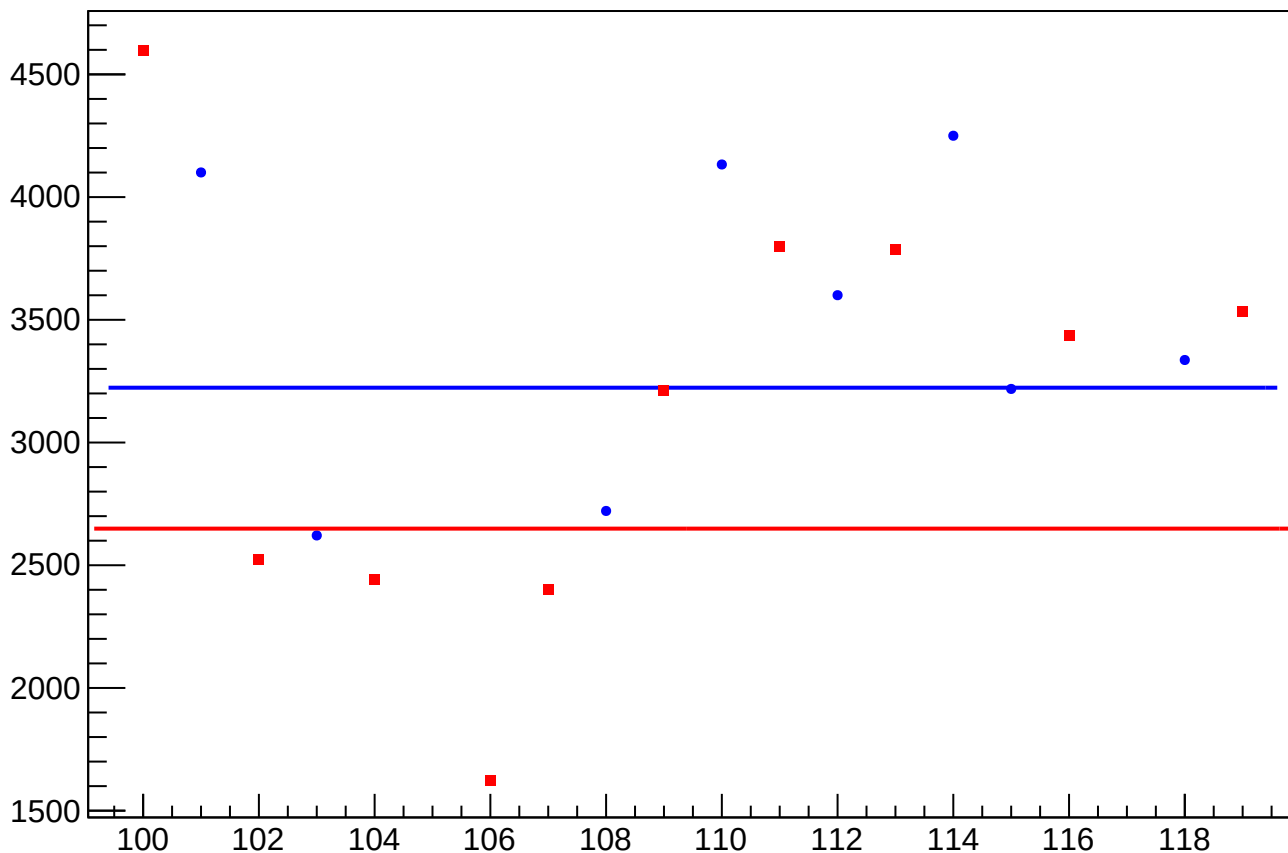
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 878.125+/-1086.775  $\chi^2/\text{NDF}$ : 16.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In:  $3223.409 \pm 1.275$   $\chi^2/\text{NDF}$ : 210236.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $2649.214 \pm 0.963$   $\chi^2/\text{NDF}$ : 601114.3/9

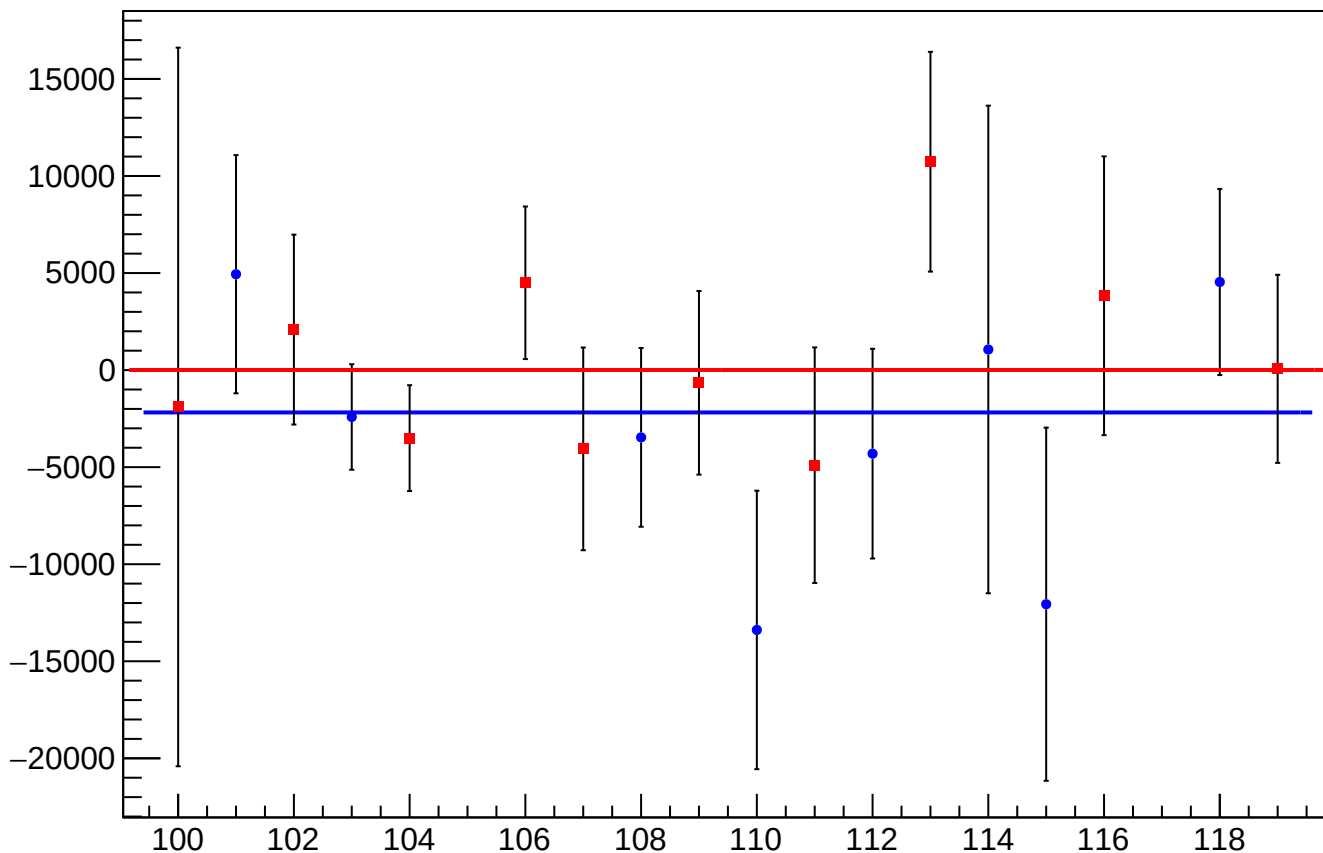
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $2857.665 \pm 0.768$   $\chi^2/\text{NDF}$ : 940452.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_mean vs Slug



Right In: -2181.580+/-1754.999  $\chi^2/\text{NDF}$ : 7.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.461+/-1497.735  $\chi^2/\text{NDF}$ : 8.3/9

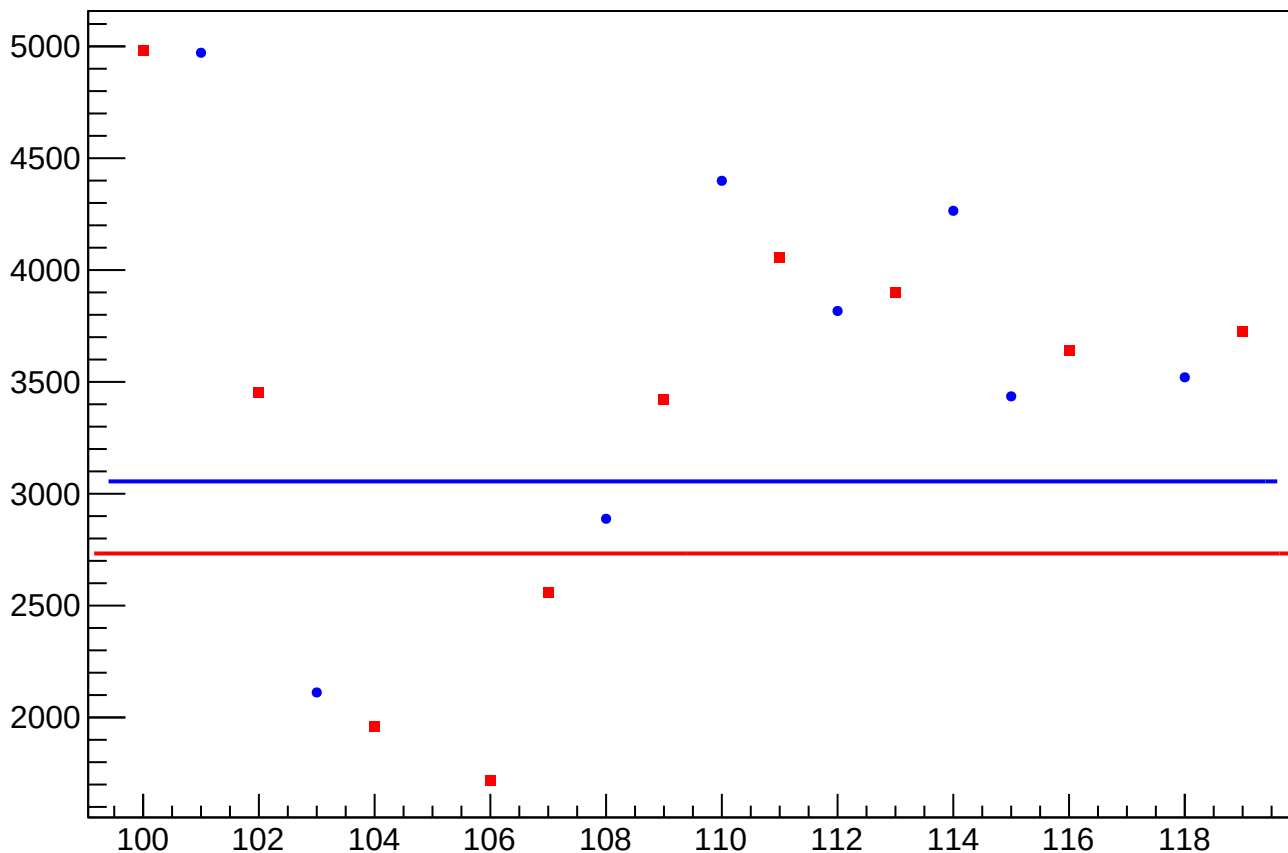
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -916.158+/-1139.264  $\chi^2/\text{NDF}$ : 16.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 3055.315+/-1.241  $\chi^2$ /NDF: 589469.8/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2733.055+/-1.033  $\chi^2$ /NDF: 755517.3/9

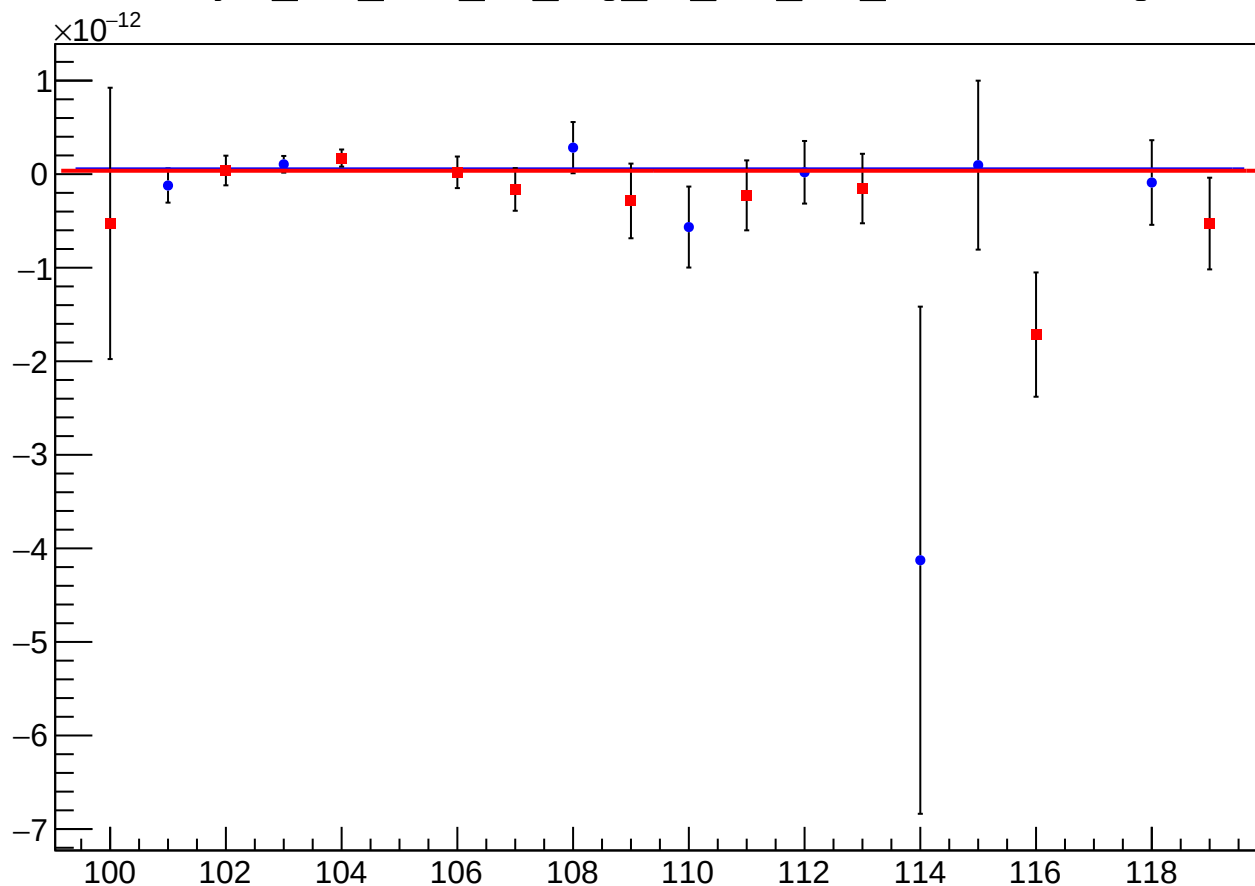
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 2864.932+/-0.794  $\chi^2$ /NDF: 1384826.2/17

- sign 0.000+/-0.000  $\chi^2$ /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: 6.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.8/9

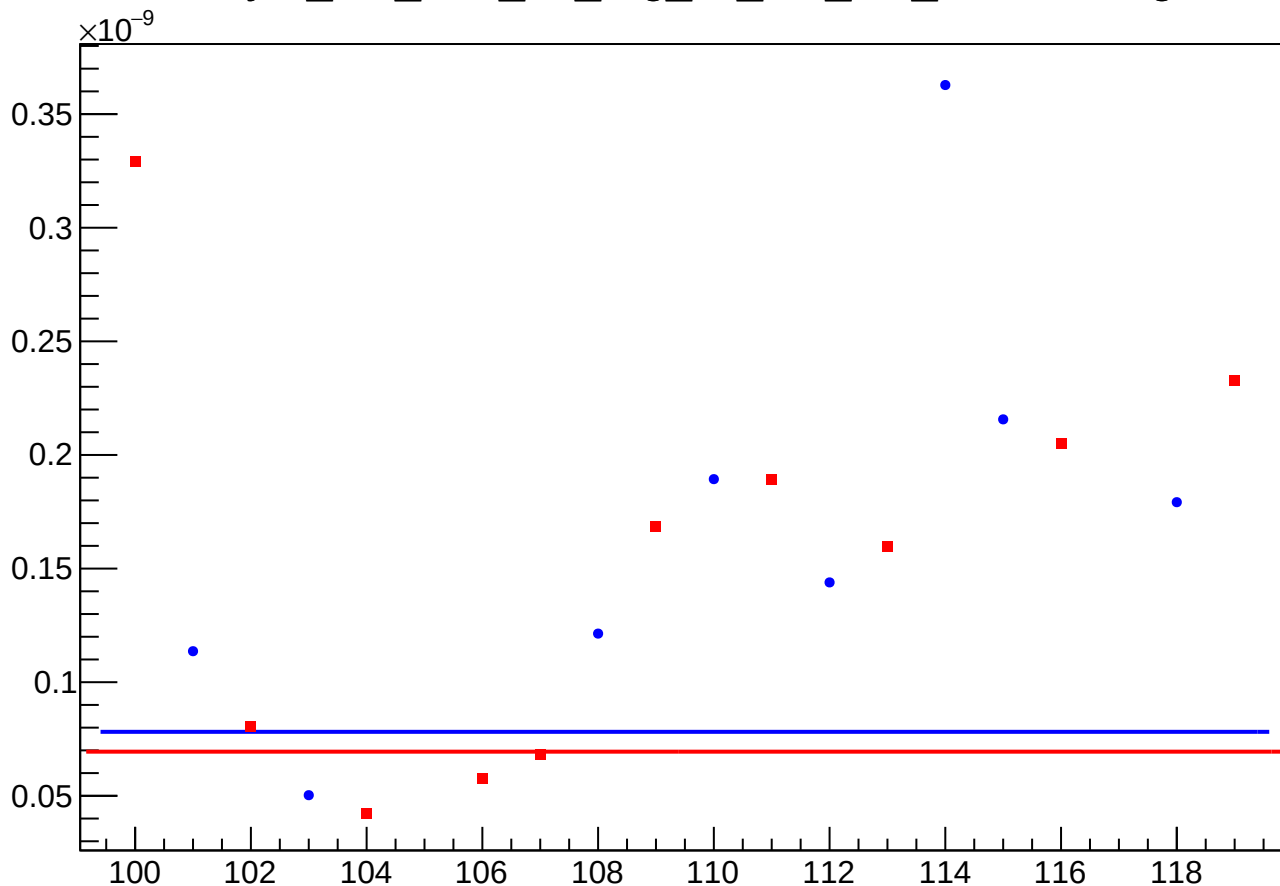
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.3/17

- 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  $\chi^2/\text{NDF}$ : 698934.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1013908.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

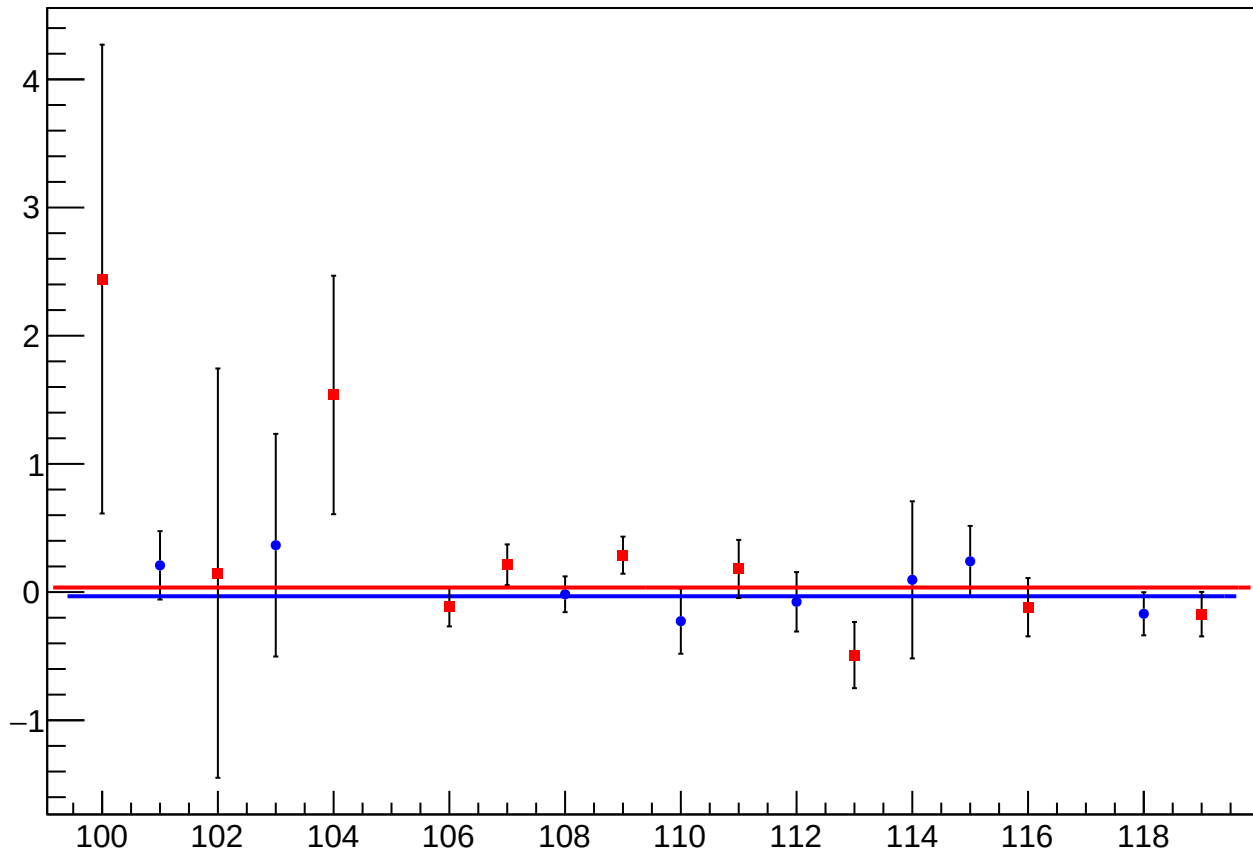
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1729035.4/17

- 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:  $-0.033 \pm 0.081$   $\chi^2/\text{NDF}$ : 3.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.036 \pm 0.067$   $\chi^2/\text{NDF}$ : 16.1/9

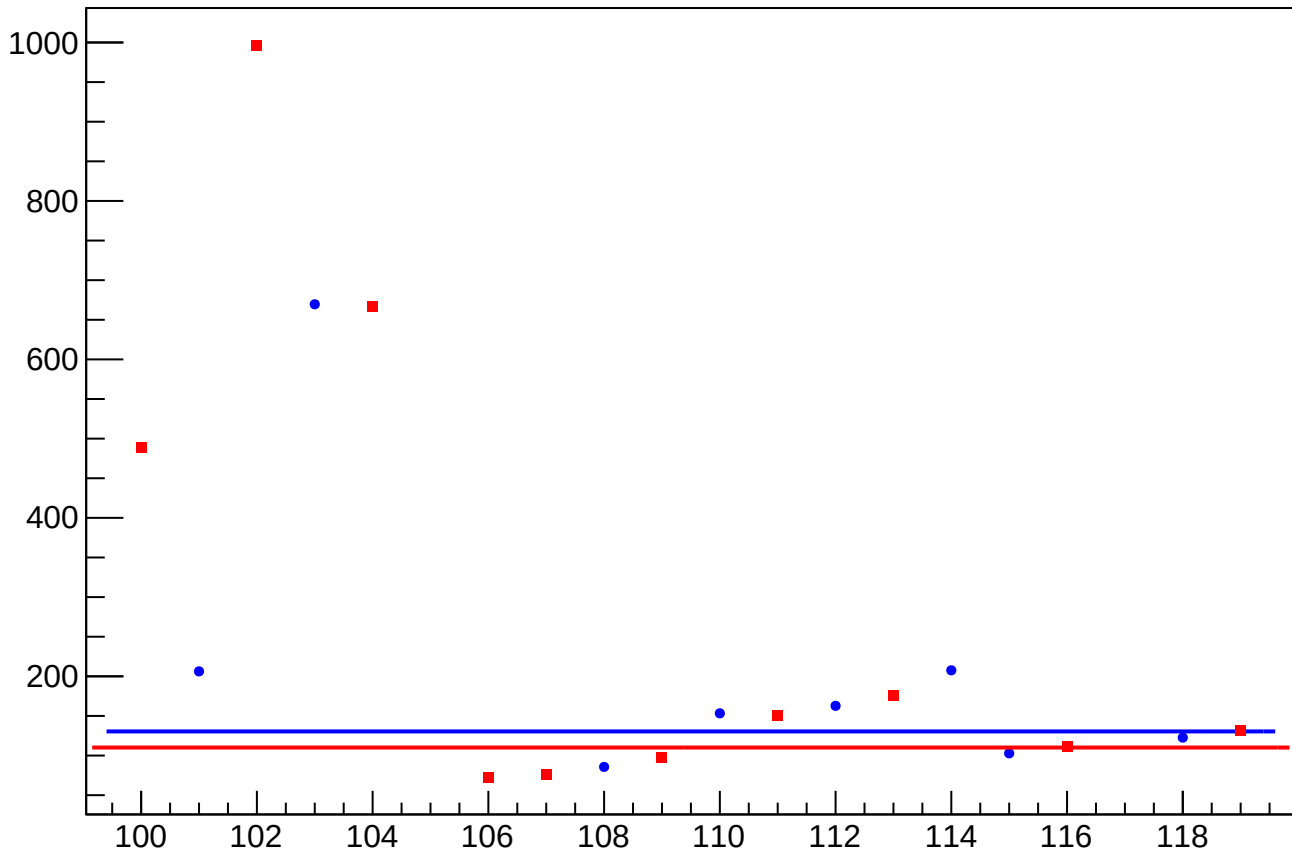
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.008 \pm 0.052$   $\chi^2/\text{NDF}$ : 19.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 130.458+/-0.057  $\chi^2/\text{NDF}$ : 1249163.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.122+/-0.048  $\chi^2/\text{NDF}$ : 1882689.1/9

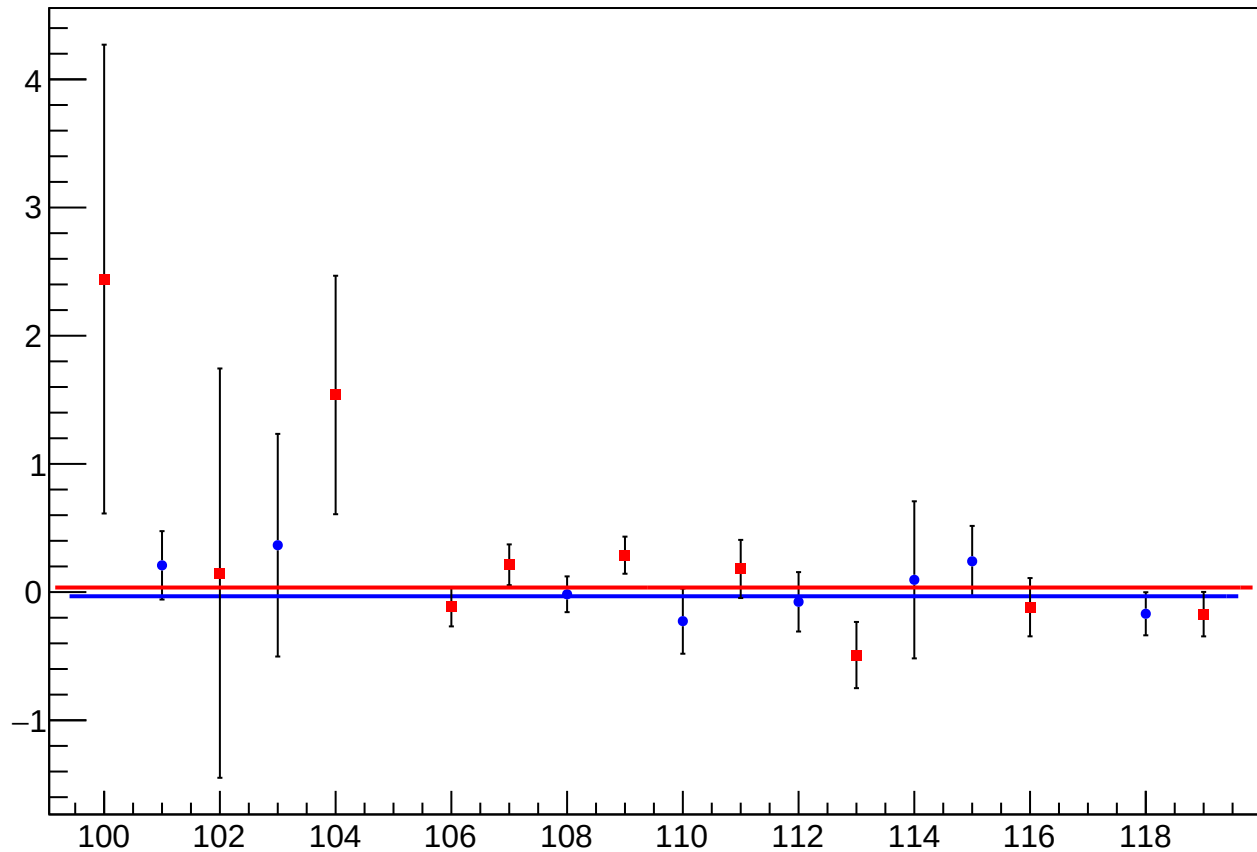
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 118.437+/-0.037  $\chi^2/\text{NDF}$ : 3206159.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.033 $\pm$ 0.081  $\chi^2$ /NDF: 3.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.036 $\pm$ 0.067  $\chi^2$ /NDF: 16.1/9

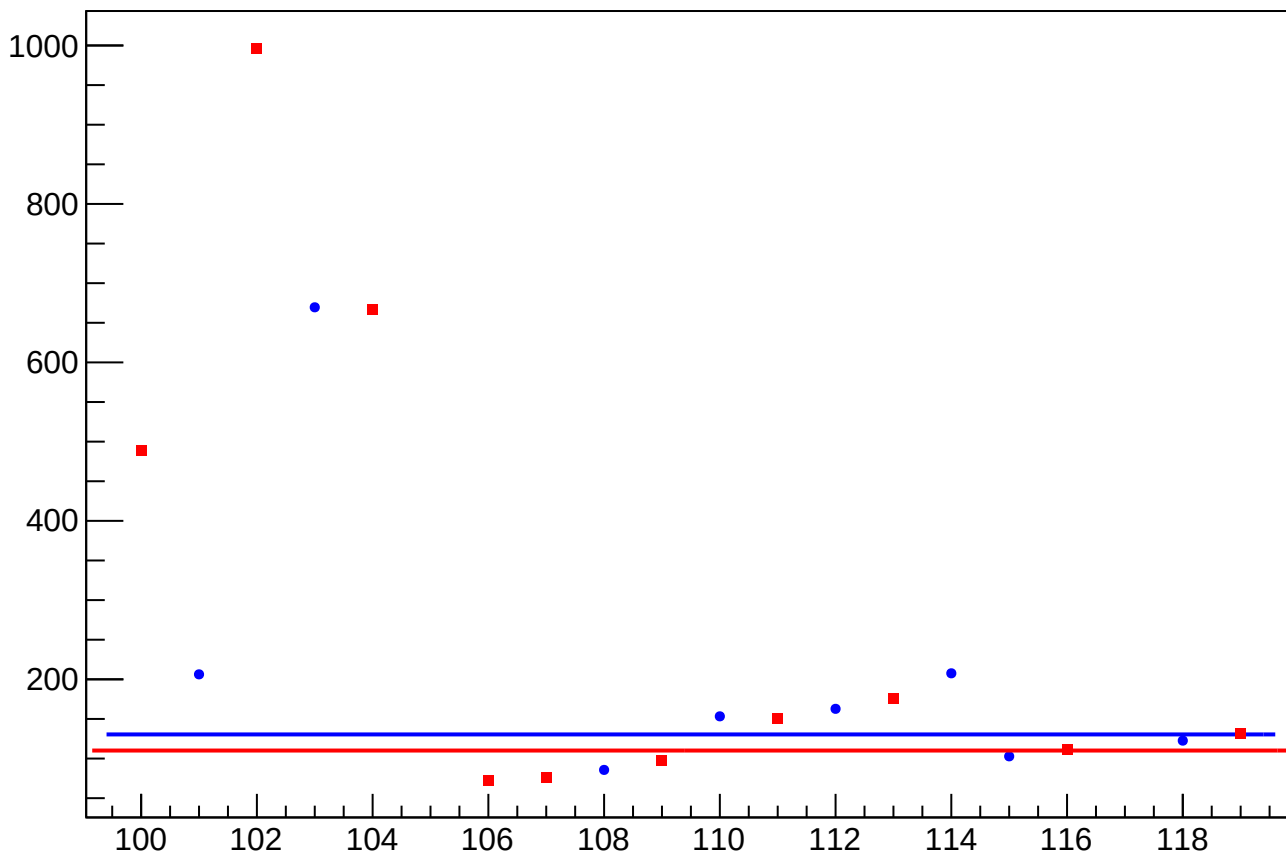
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.052  $\chi^2$ /NDF: 19.8/17

- 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: 130.458+/-0.057  $\chi^2/\text{NDF}$ : 1249163.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.122+/-0.048  $\chi^2/\text{NDF}$ : 1882689.1/9

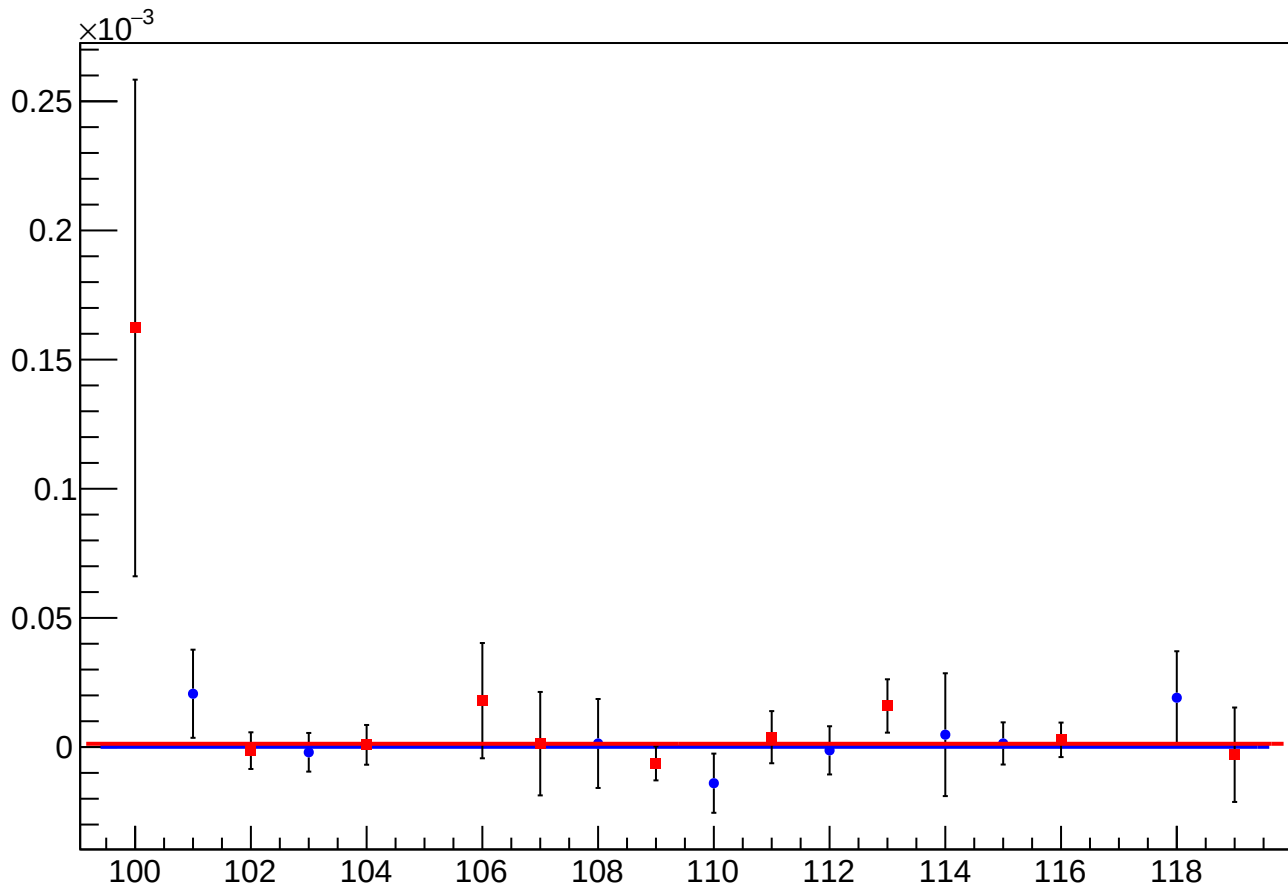
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 118.437+/-0.037  $\chi^2/\text{NDF}$ : 3206159.0/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 4.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.0/9

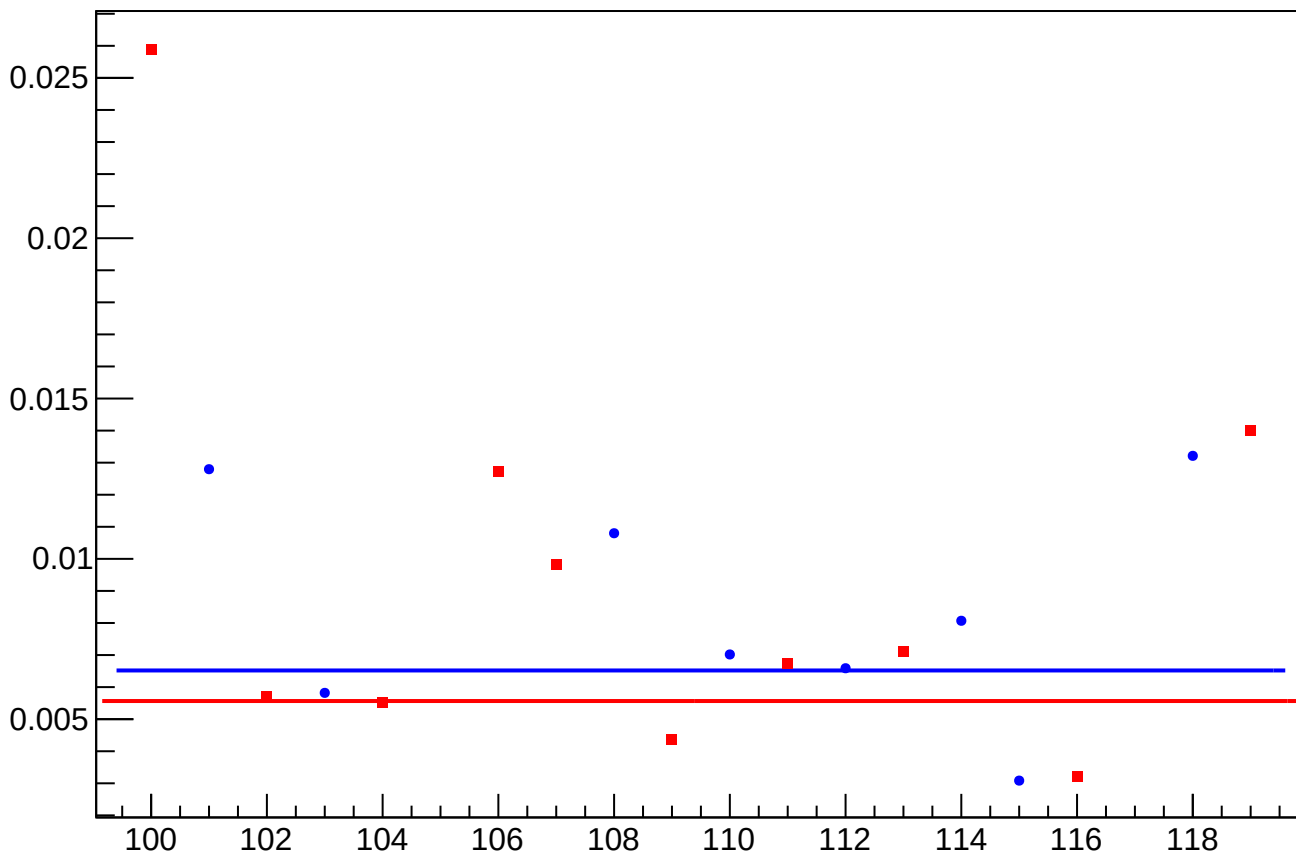
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1054591.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1203514.2/9

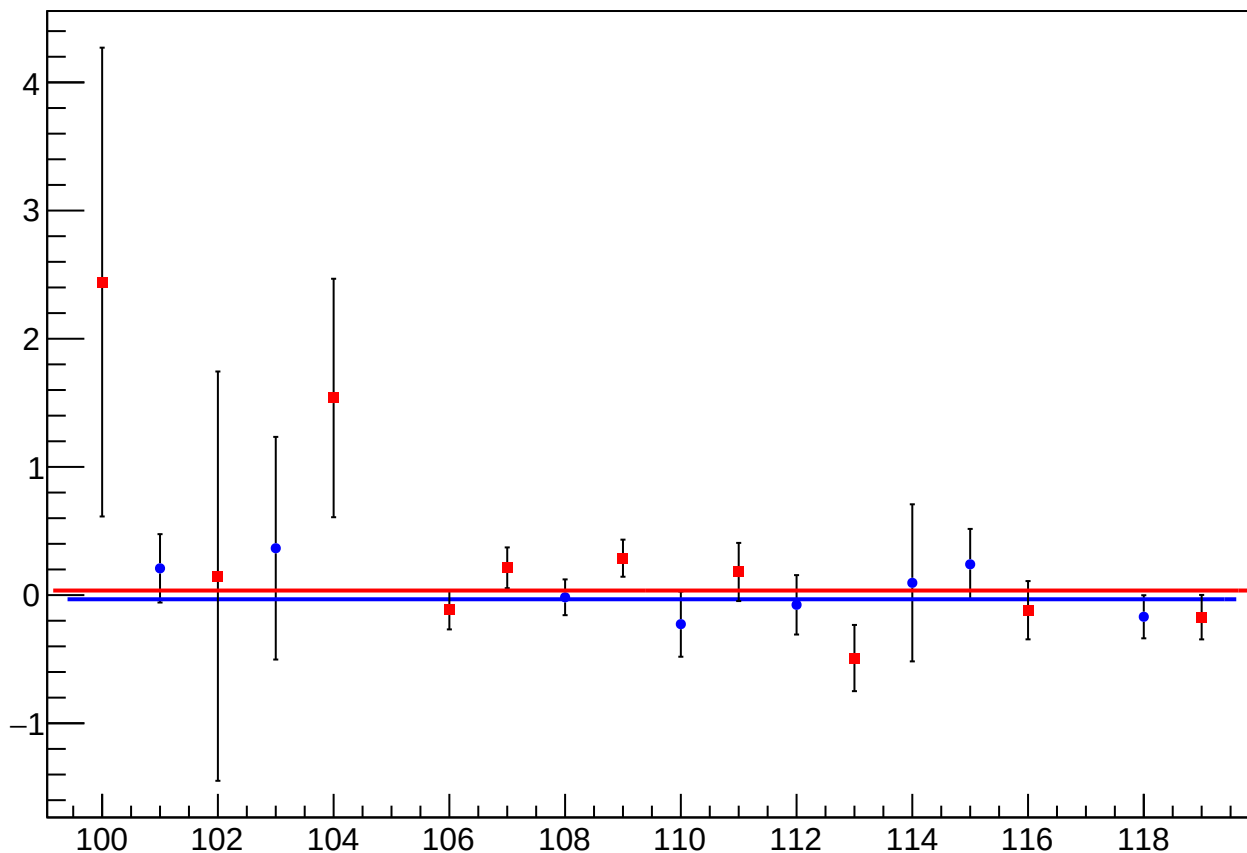
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2331109.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.033 $\pm$ 0.081  $\chi^2$ /NDF: 3.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.036 $\pm$ 0.067  $\chi^2$ /NDF: 16.1/9

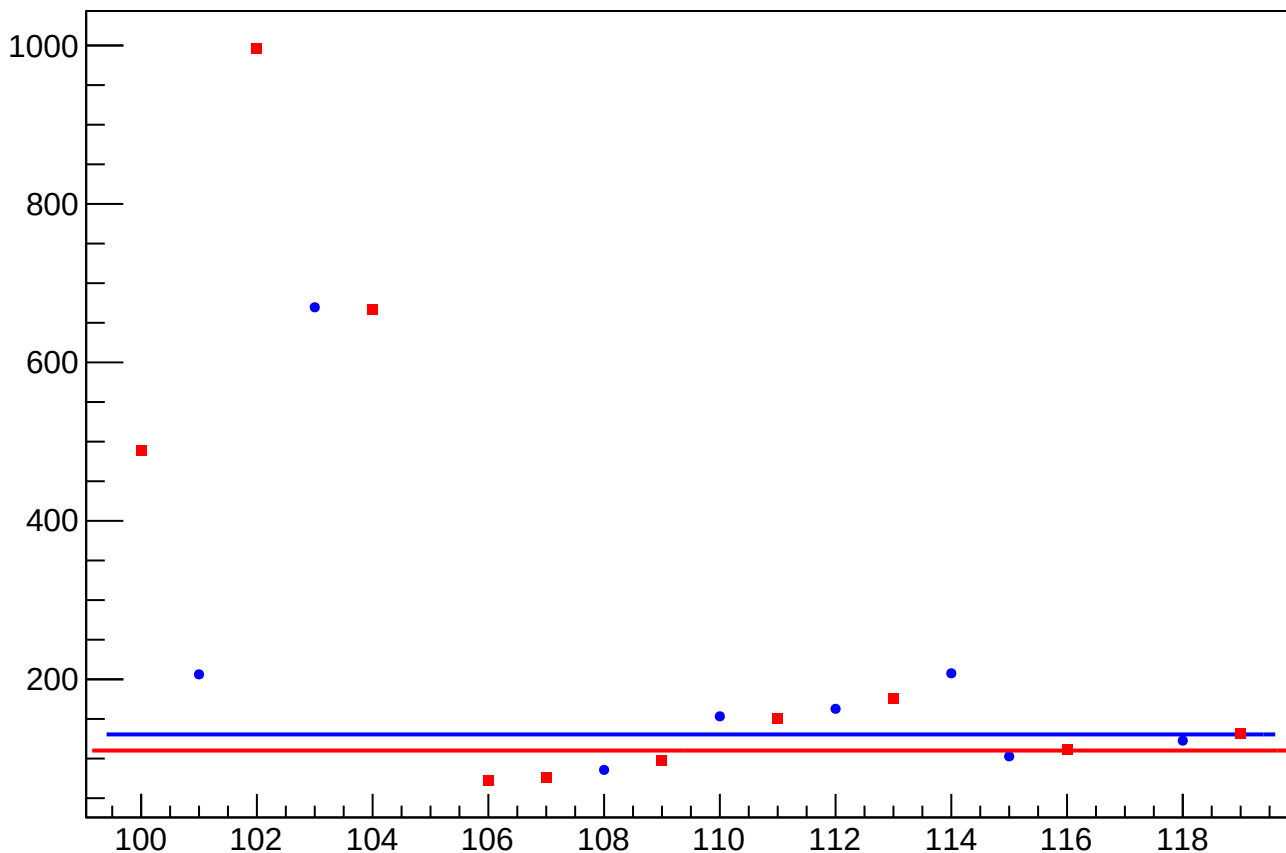
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.052  $\chi^2$ /NDF: 19.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 130.454+/-0.057  $\chi^2/\text{NDF}$ : 1249224.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.122+/-0.048  $\chi^2/\text{NDF}$ : 1882689.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

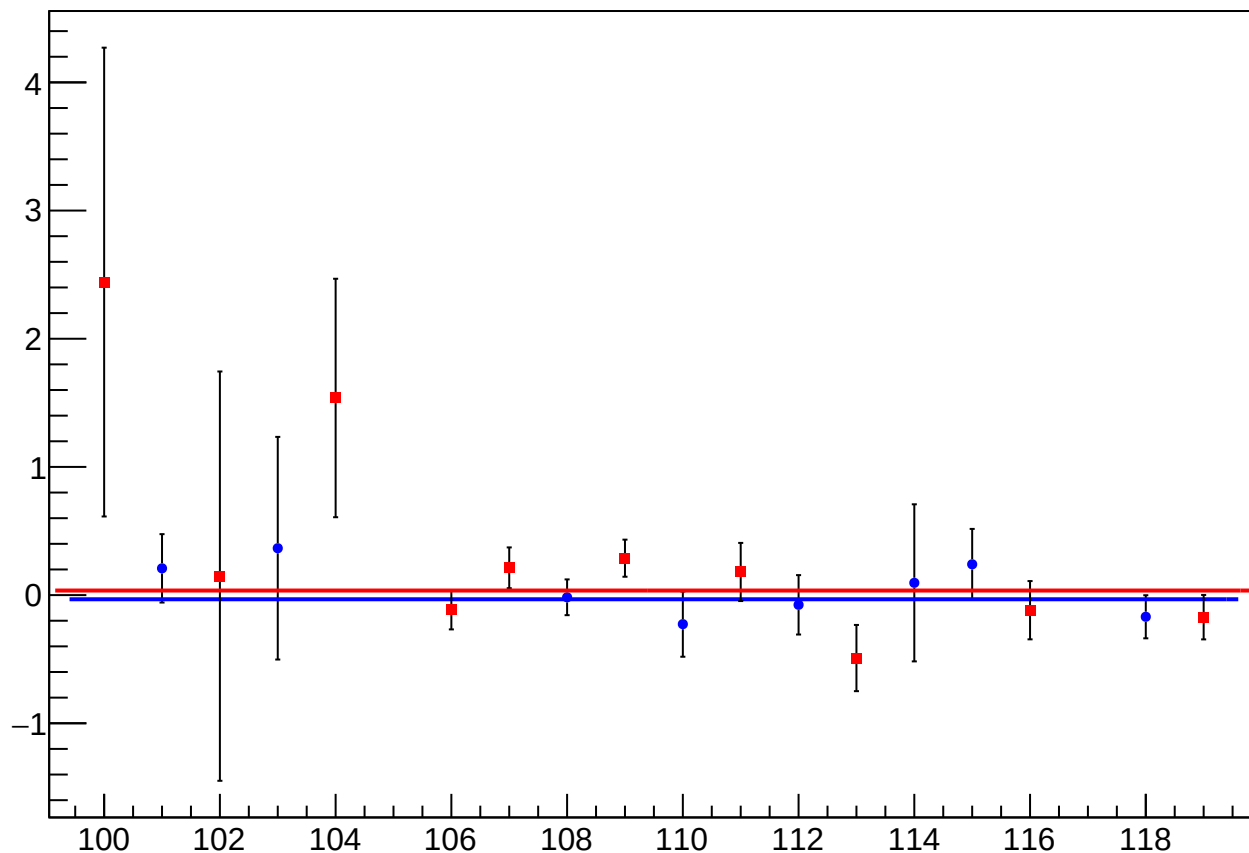
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 118.437+/-0.037  $\chi^2/\text{NDF}$ : 3206192.7/17

- 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:  $-0.033 \pm 0.081$   $\chi^2/\text{NDF}$ : 3.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.036 \pm 0.067$   $\chi^2/\text{NDF}$ : 16.1/9

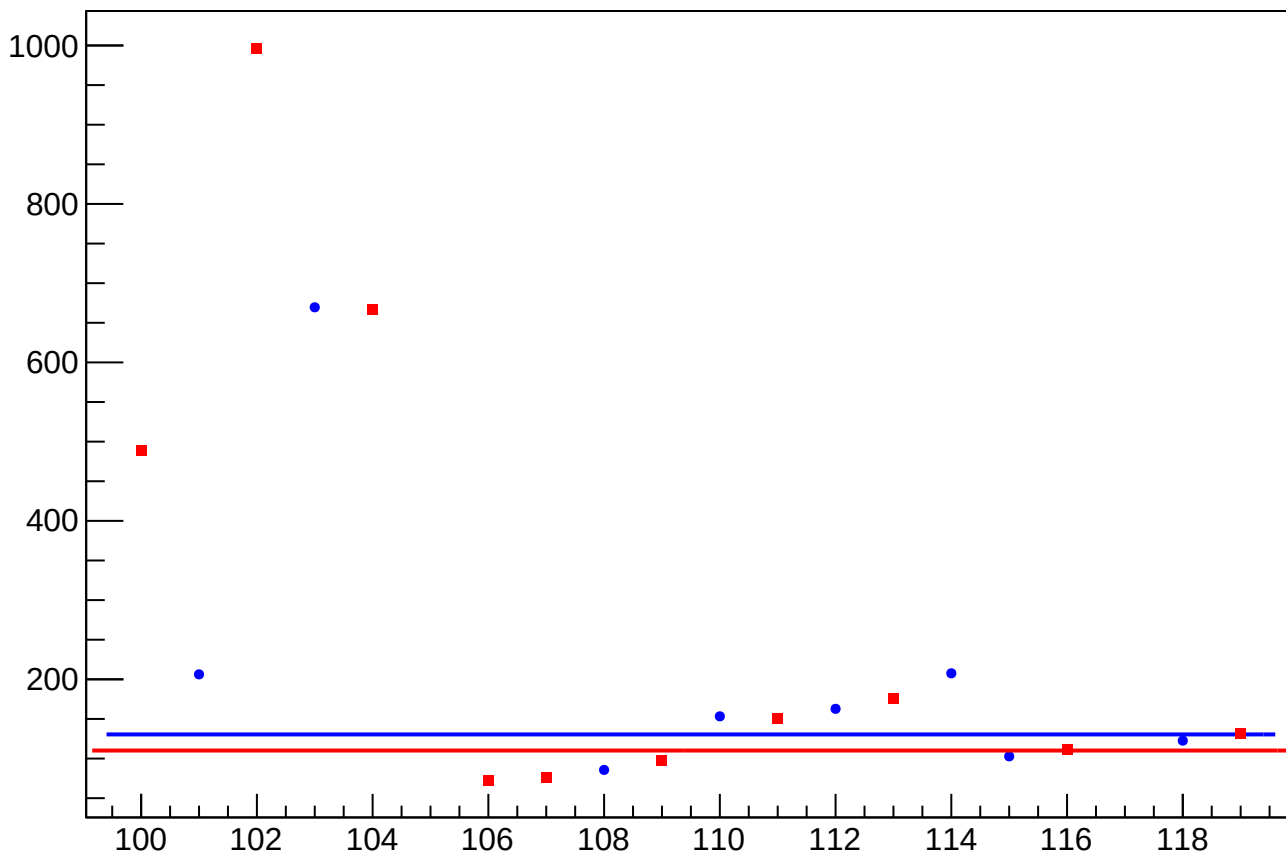
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.008 \pm 0.052$   $\chi^2/\text{NDF}$ : 19.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 130.454+/-0.057  $\chi^2/\text{NDF}$ : 1249224.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.122+/-0.048  $\chi^2/\text{NDF}$ : 1882689.2/9

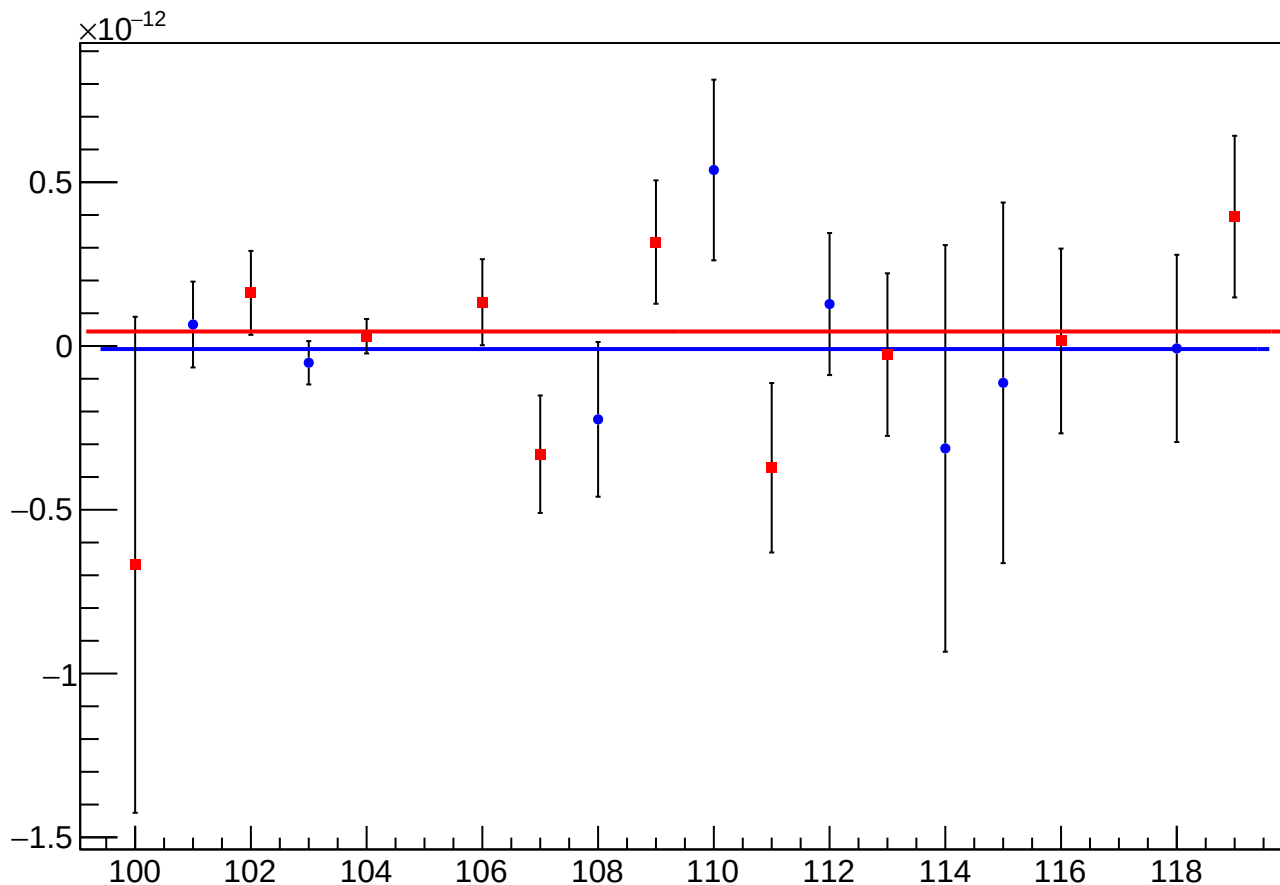
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 118.437+/-0.037  $\chi^2/\text{NDF}$ : 3206192.7/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.4/9

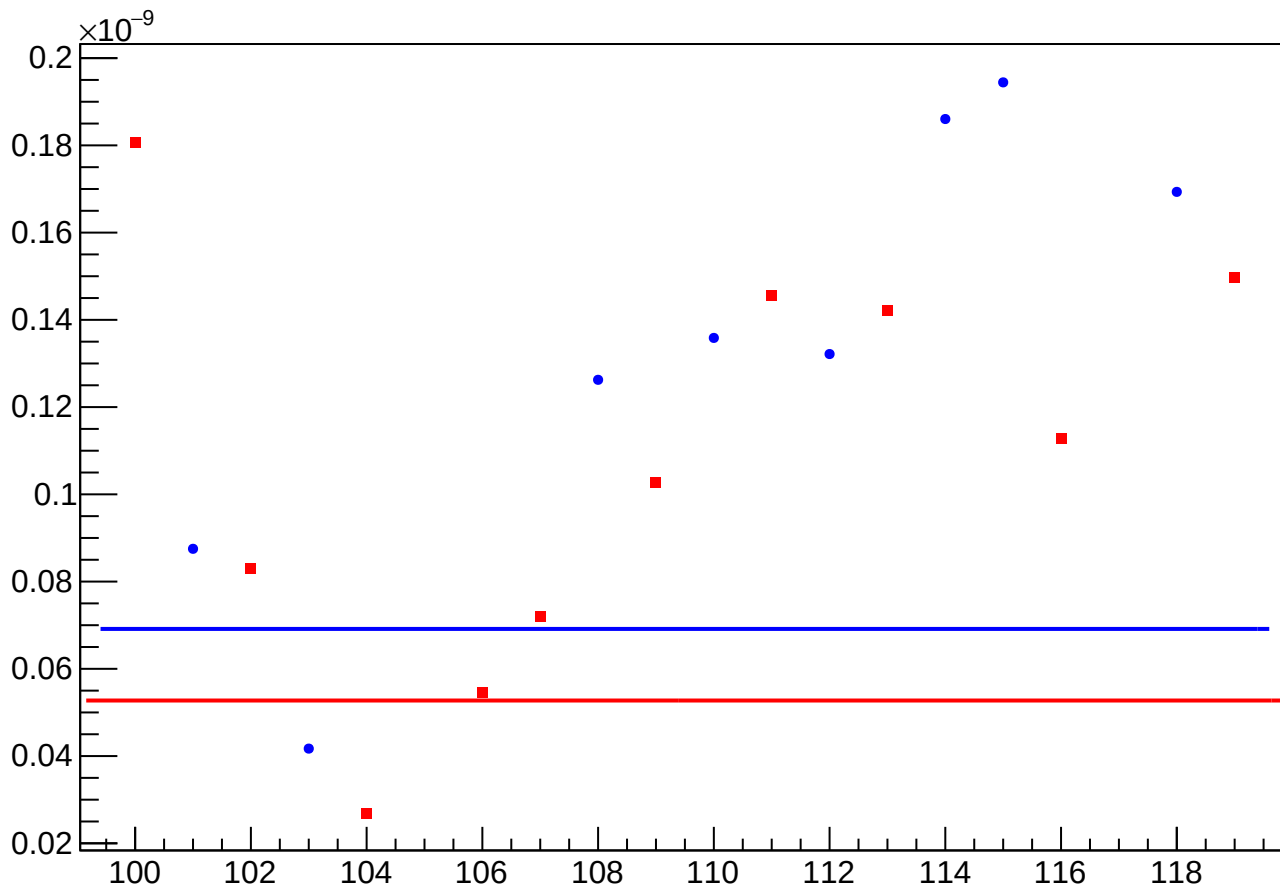
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.2/17

- sign 0.000+/-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+/-0.000  $\chi^2/\text{NDF}$ : 1205662.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1734438.1/9

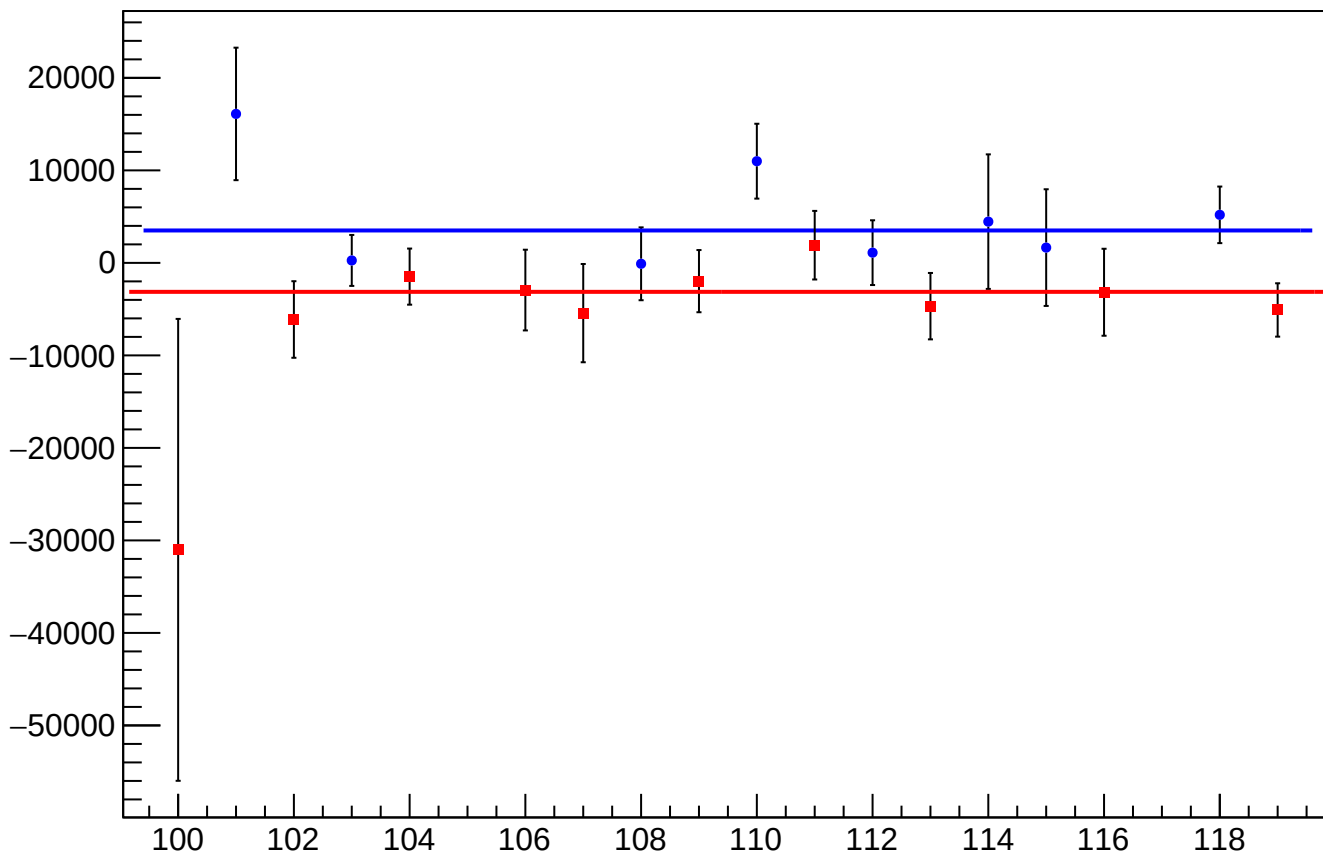
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3060672.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug



Right In: 3503.897 $\pm$ 1400.913  $\chi^2$ /NDF: 9.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3130.634 $\pm$ 1229.885  $\chi^2$ /NDF: 4.9/9

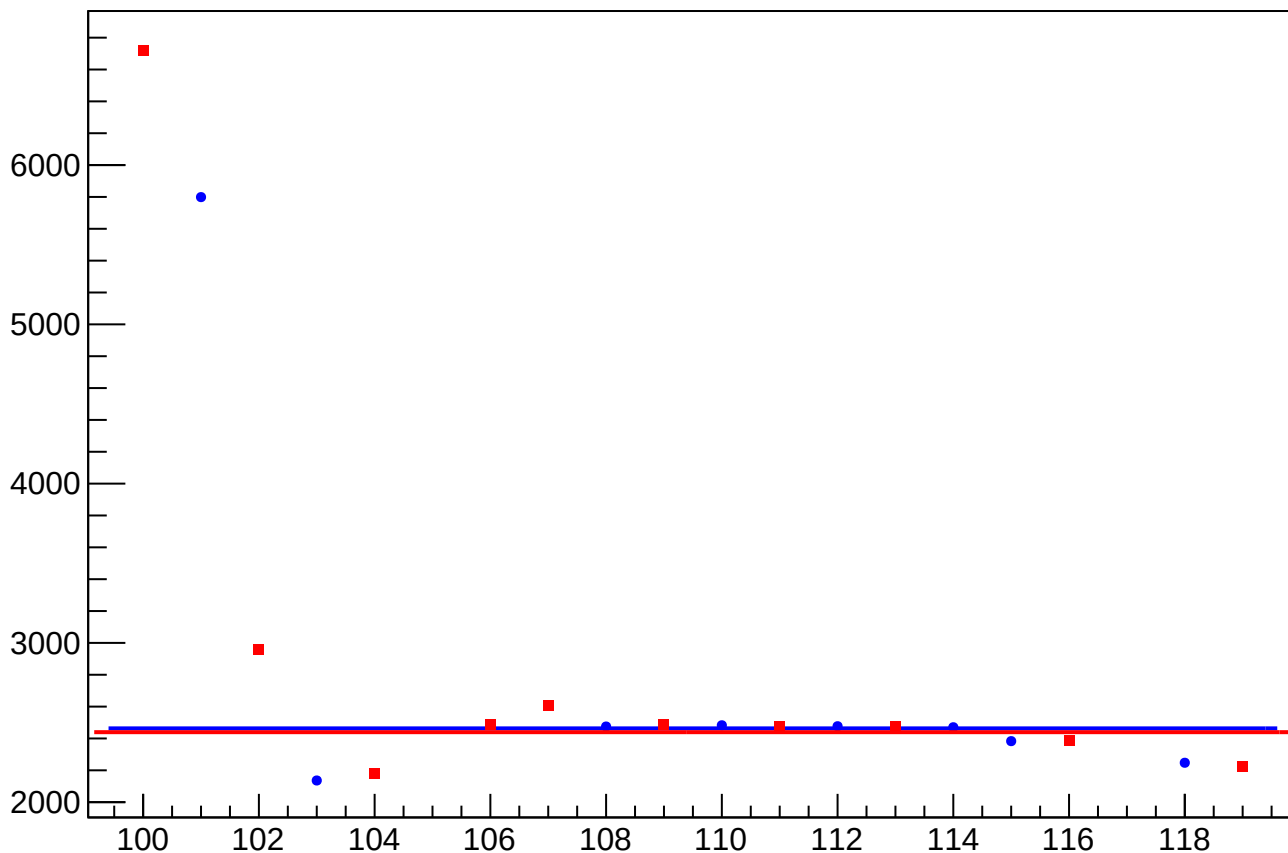
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -242.863 $\pm$ 924.245  $\chi^2$ /NDF: 27.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2463.280 $\pm$ 0.991  $\chi^2$ /NDF: 472545.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2439.481 $\pm$ 0.870  $\chi^2$ /NDF: 119031.7/9

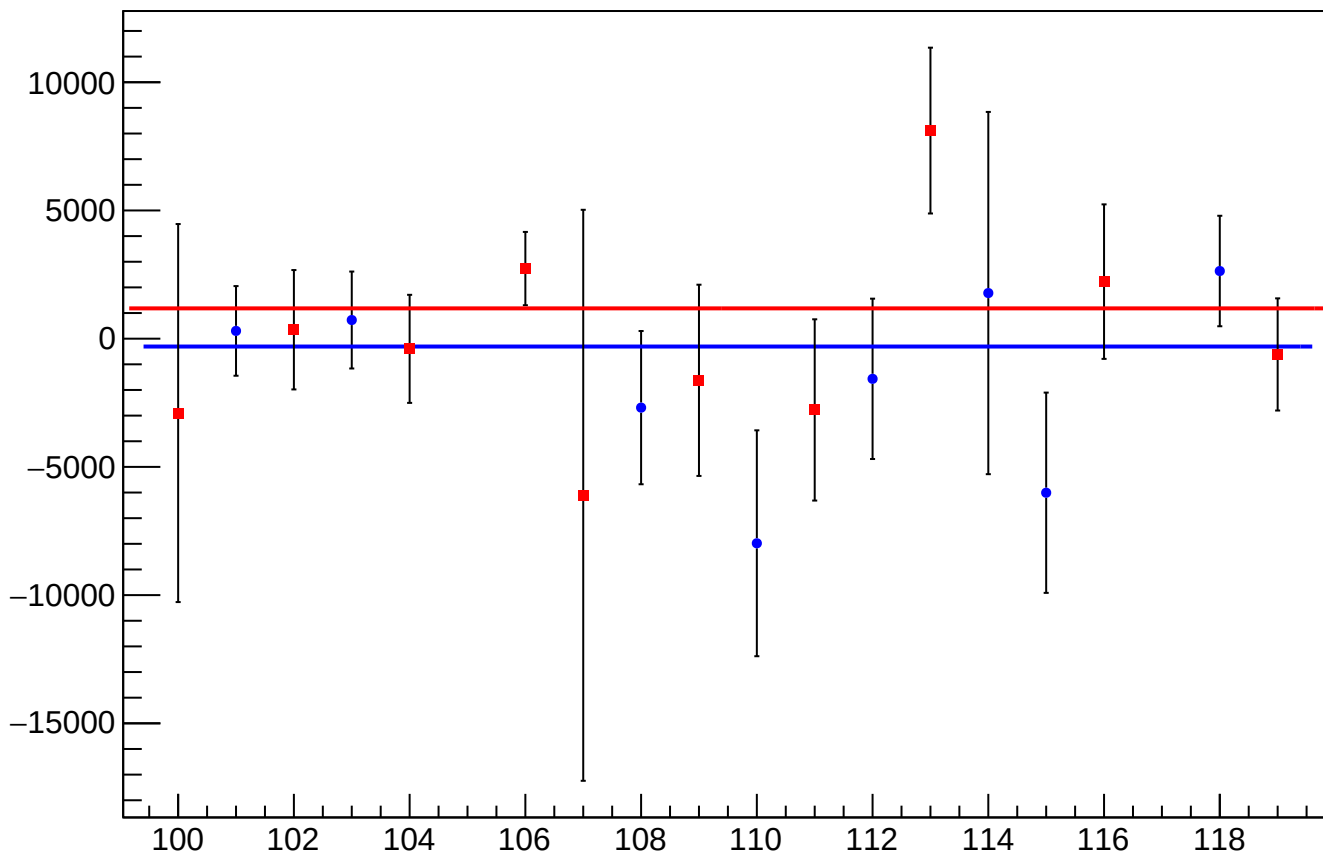
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2449.840 $\pm$ 0.654  $\chi^2$ /NDF: 591903.4/17

- 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: -306.338+/-922.845  $\chi^2/\text{NDF}$ : 8.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1181.667+/-818.535  $\chi^2/\text{NDF}$ : 9.8/9

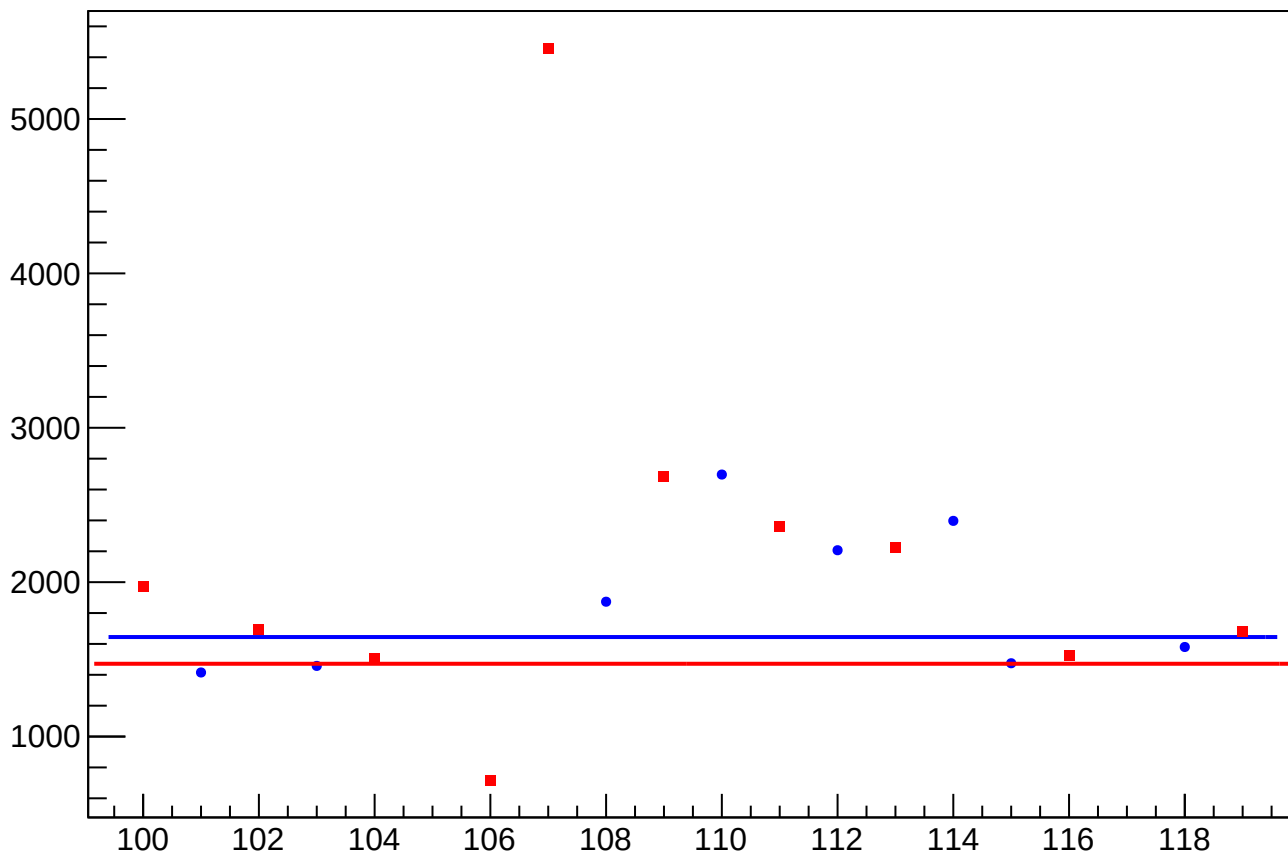
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 526.478+/-612.364  $\chi^2/\text{NDF}$ : 19.6/17

- 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: 1644.588+/-0.653  $\chi^2/\text{NDF}$ : 272961.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1471.454+/-0.579  $\chi^2/\text{NDF}$ : 1311796.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

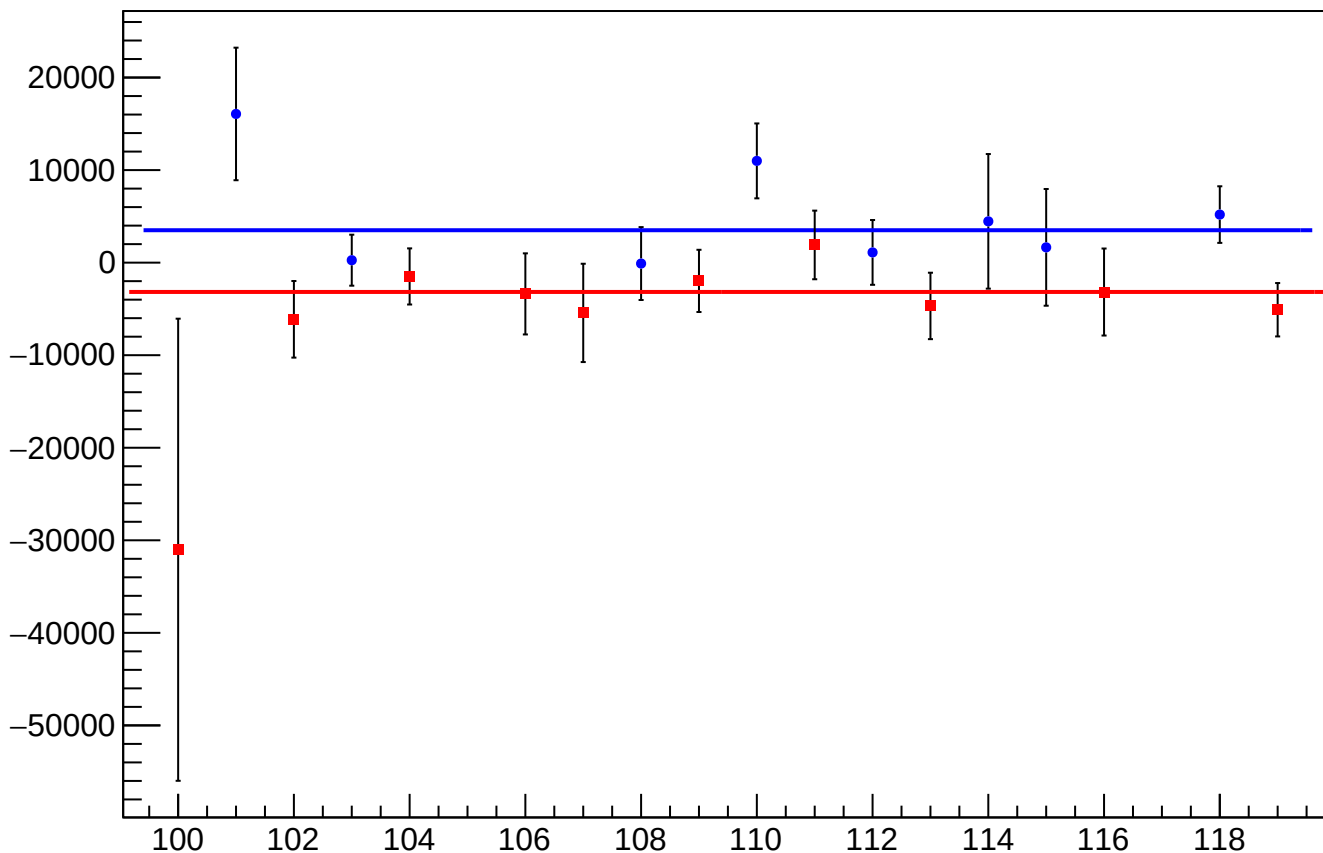
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1547.687+/-0.433  $\chi^2/\text{NDF}$ : 1624157.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug



Right In: 3502.509 $\pm$ 1400.913  $\chi^2$ /NDF: 9.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3166.307 $\pm$ 1230.308  $\chi^2$ /NDF: 4.9/9

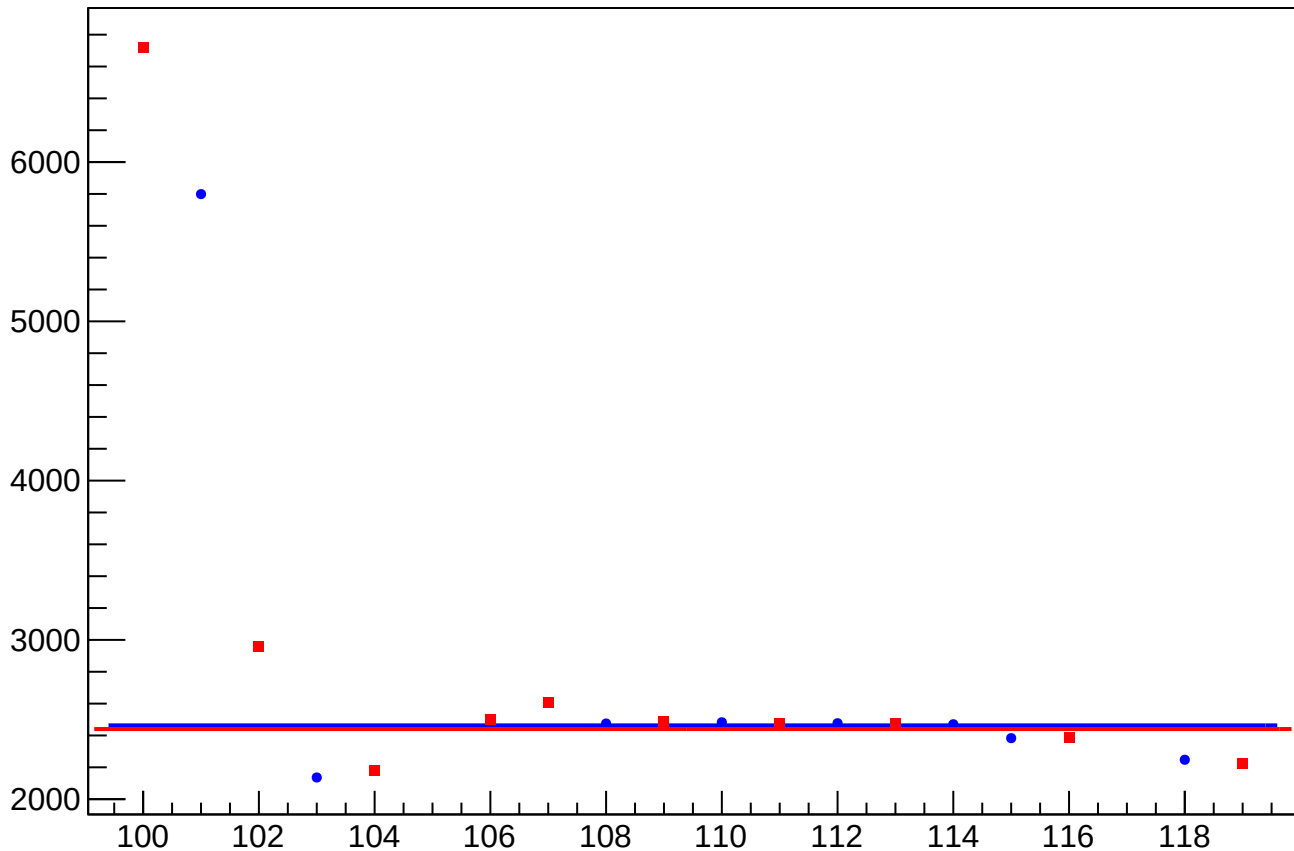
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -262.487 $\pm$ 924.425  $\chi^2$ /NDF: 27.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2463.280 $\pm$ 0.991  $\chi^2$ /NDF: 472546.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2440.293 $\pm$ 0.870  $\chi^2$ /NDF: 119153.7/9

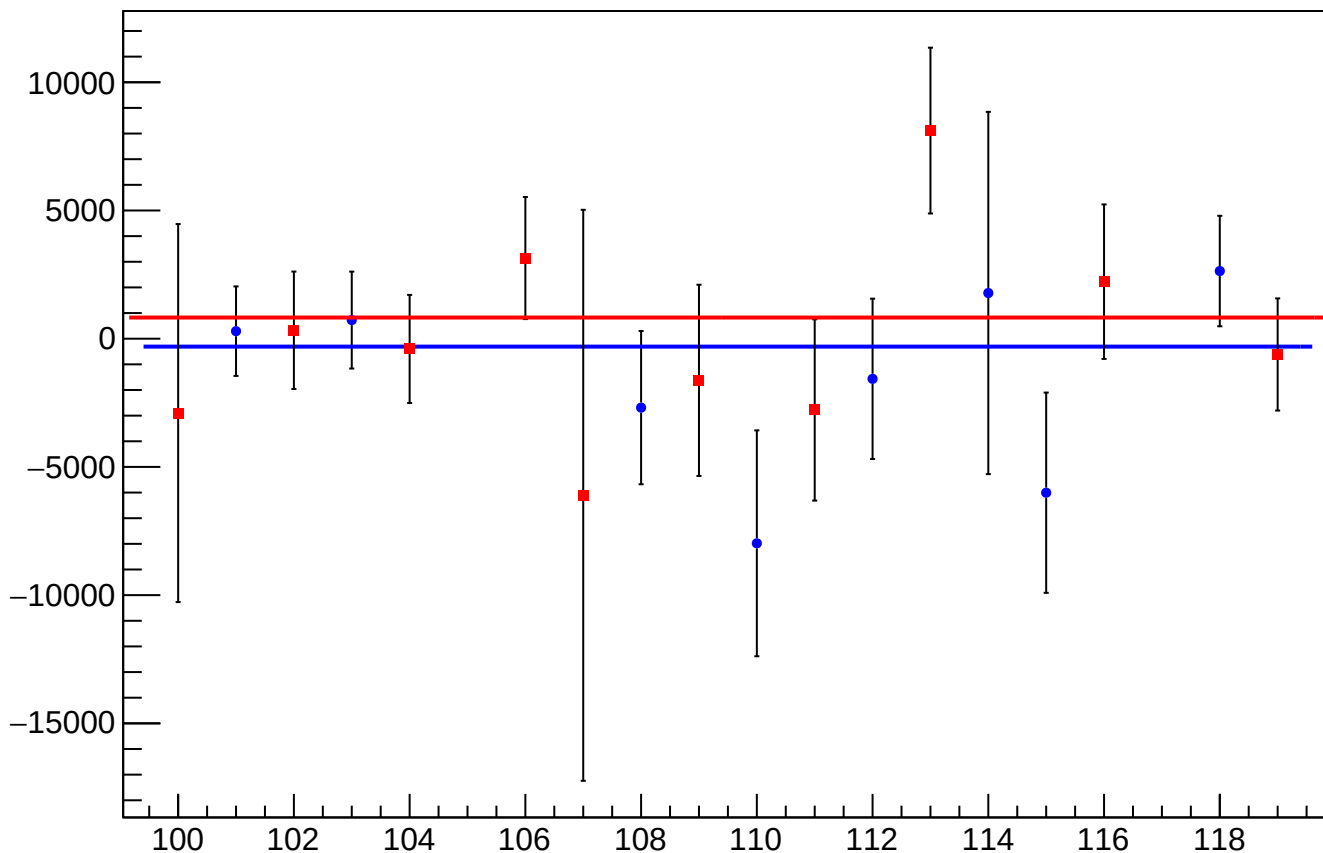
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2450.302 $\pm$ 0.654  $\chi^2$ /NDF: 592004.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_cor\_correction\_mean vs Slug



Right In: -308.460+/-922.486  $\chi^2/\text{NDF}$ : 8.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 825.518+/-918.329  $\chi^2/\text{NDF}$ : 9.2/9

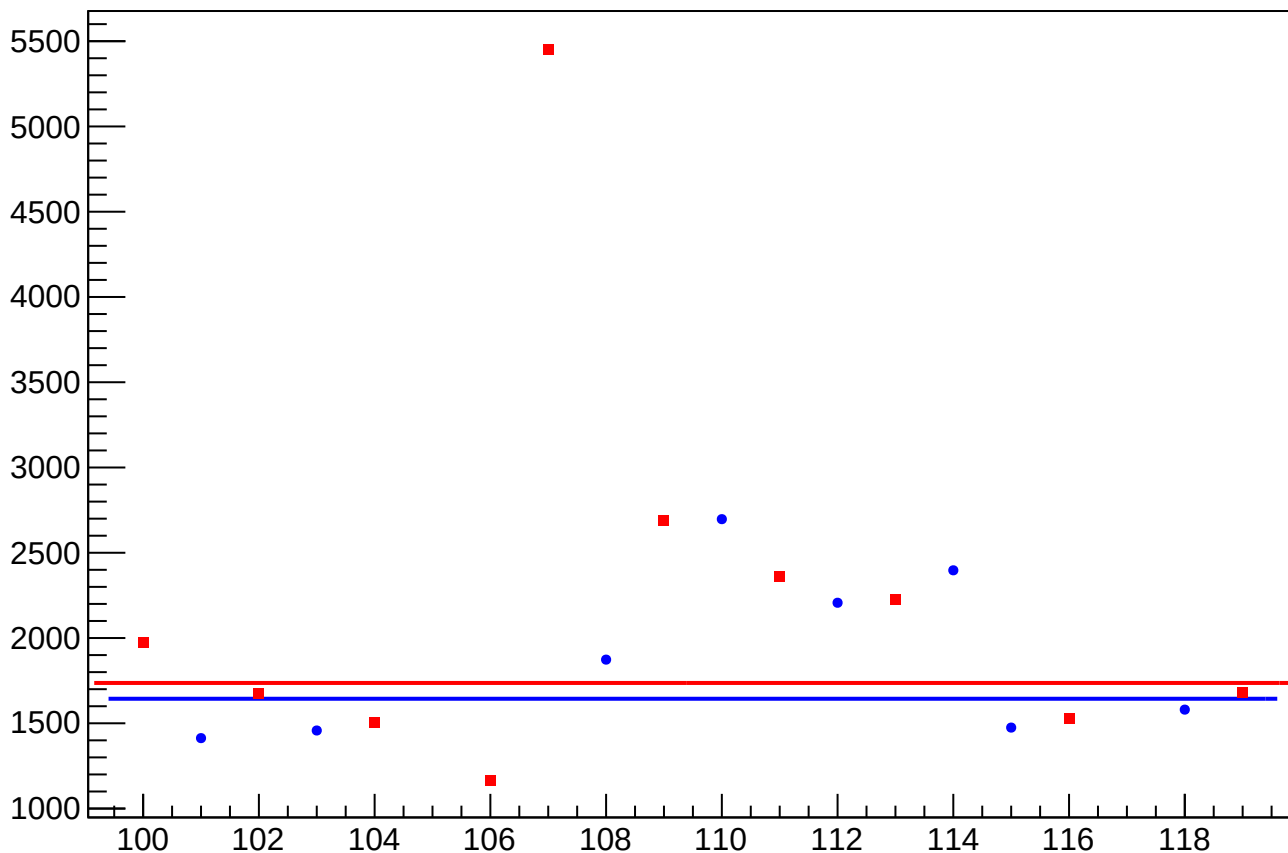
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 261.090+/-650.821  $\chi^2/\text{NDF}$ : 18.3/17

- 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: 1643.880+/-0.652  $\chi^2/\text{NDF}$ : 273635.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1736.529+/-0.649  $\chi^2/\text{NDF}$ : 615288.5/9

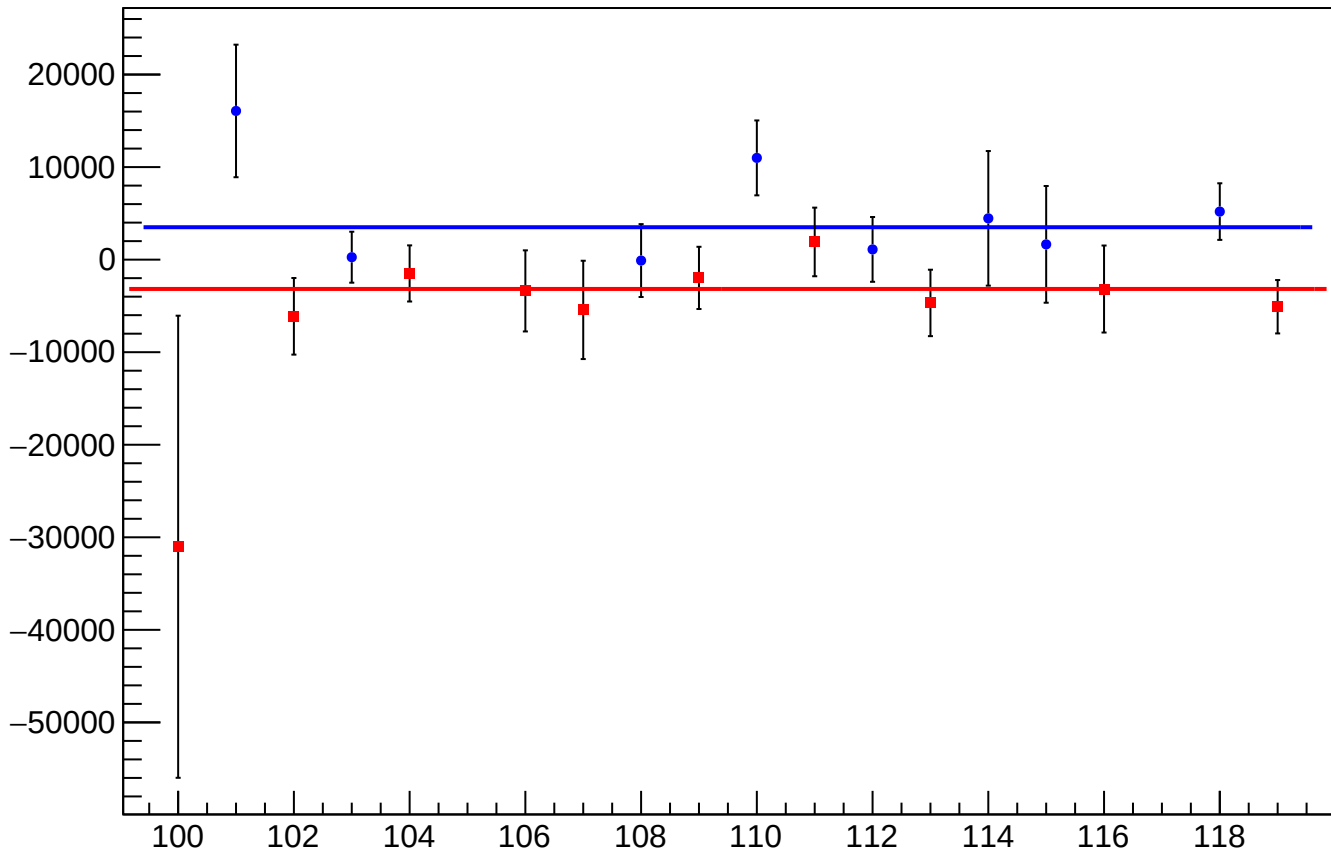
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1690.414+/-0.460  $\chi^2/\text{NDF}$ : 899056.7/17

- 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: 3502.509 $\pm$ 1400.913  $\chi^2$ /NDF: 9.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3166.307 $\pm$ 1230.308  $\chi^2$ /NDF: 4.9/9

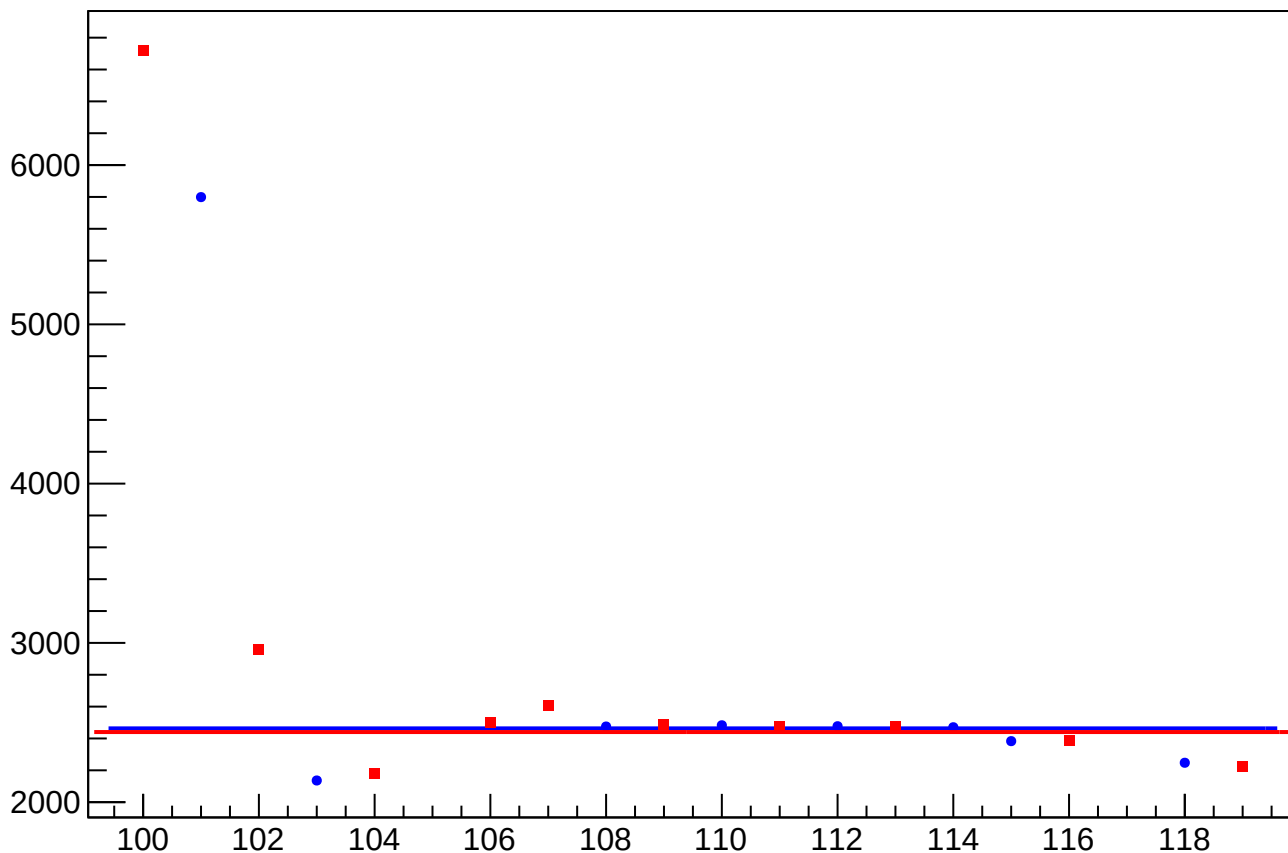
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -262.487 $\pm$ 924.425  $\chi^2$ /NDF: 27.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2463.280+/-0.991  $\chi^2$ /NDF: 472546.3/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2440.293+/-0.870  $\chi^2$ /NDF: 119153.7/9

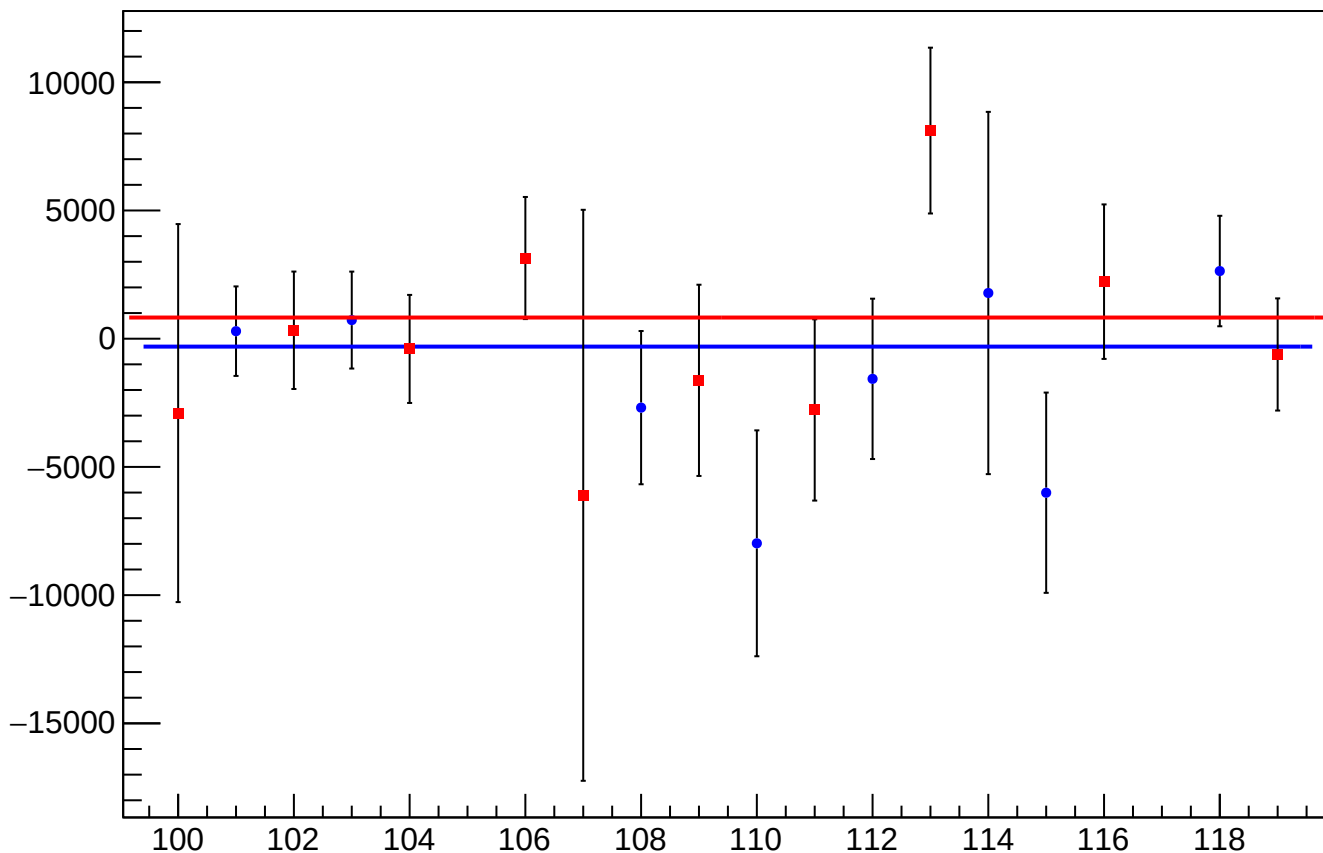
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 2450.302+/-0.654  $\chi^2$ /NDF: 592004.0/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -308.460+/-922.486  $\chi^2/\text{NDF}$ : 8.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 825.518+/-918.329  $\chi^2/\text{NDF}$ : 9.2/9

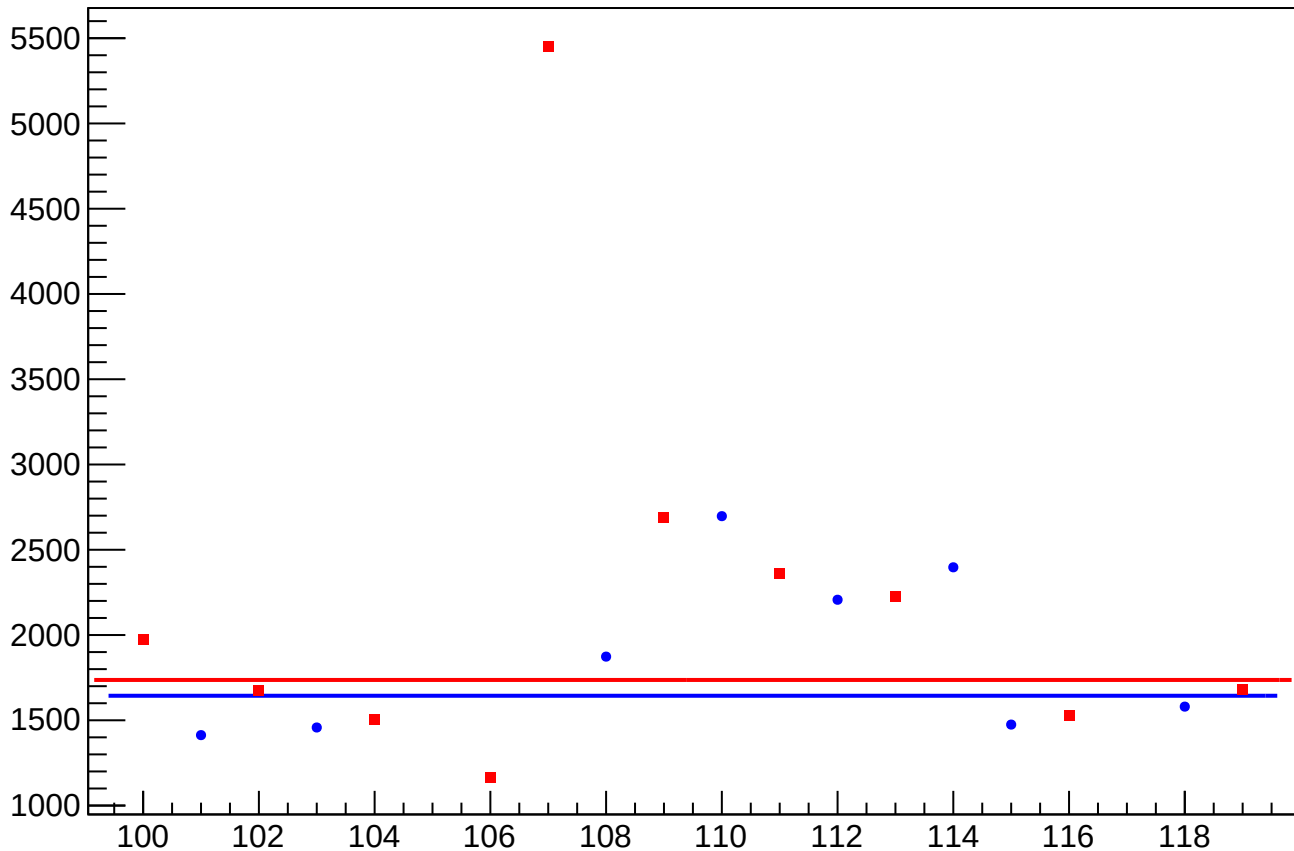
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 261.090+/-650.821  $\chi^2/\text{NDF}$ : 18.3/17

- 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: 1643.880+/-0.652  $\chi^2/\text{NDF}$ : 273635.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1736.529+/-0.649  $\chi^2/\text{NDF}$ : 615288.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

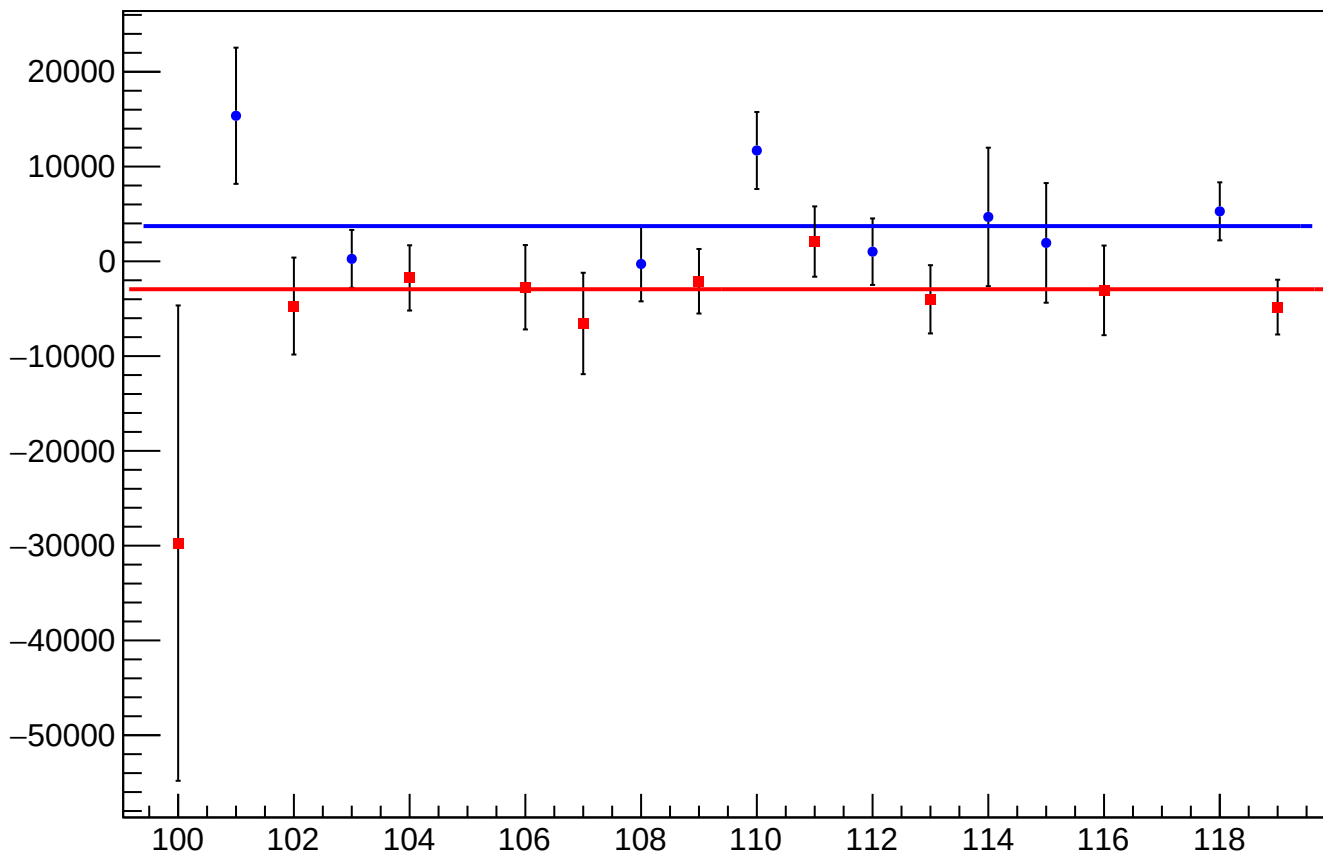
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1690.414+/-0.460  $\chi^2/\text{NDF}$ : 899056.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug



Right In: 3717.493+/-1438.119  $\chi^2/\text{NDF}$ : 9.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2945.212+/-1280.258  $\chi^2/\text{NDF}$ : 4.3/9

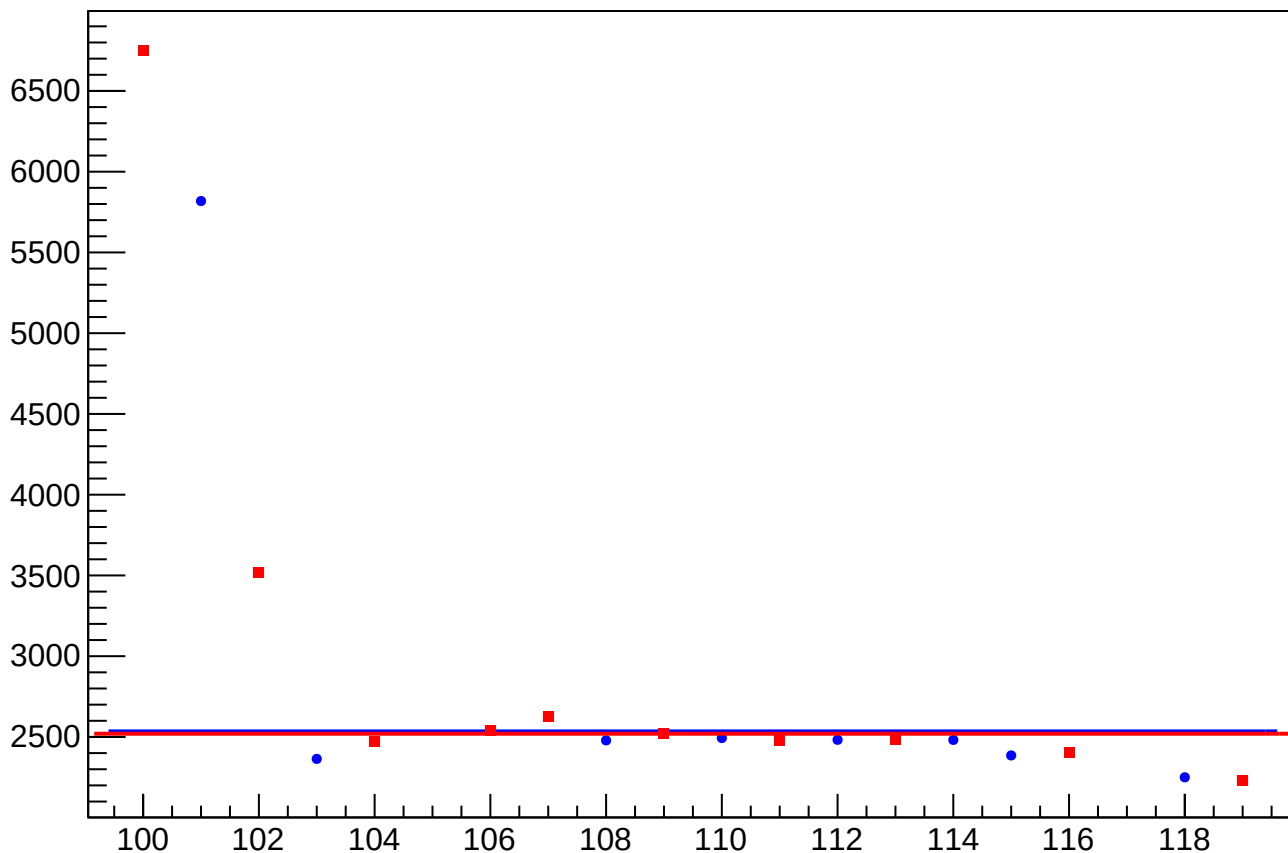
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.527+/-956.239  $\chi^2/\text{NDF}$ : 26.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2534.245 $\pm$ 1.017  $\chi^2$ /NDF: 443487.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2519.992 $\pm$ 0.905  $\chi^2$ /NDF: 156406.2/9

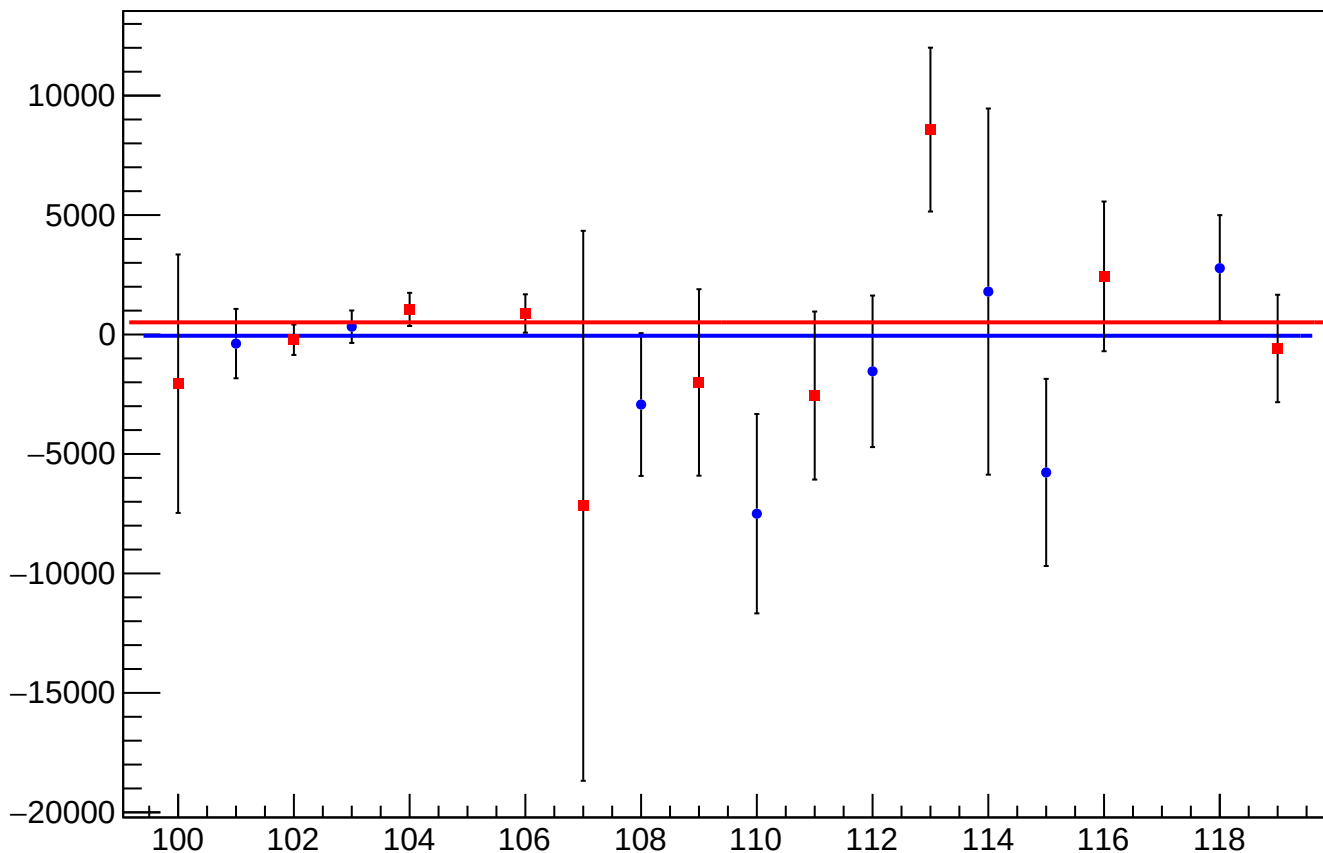
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2526.294 $\pm$ 0.676  $\chi^2$ /NDF: 600003.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_correction\_mean vs Slug



Right In: -52.132 $\pm$ 559.468  $\chi^2$ /NDF: 8.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 509.542 $\pm$ 387.349  $\chi^2$ /NDF: 10.1/9

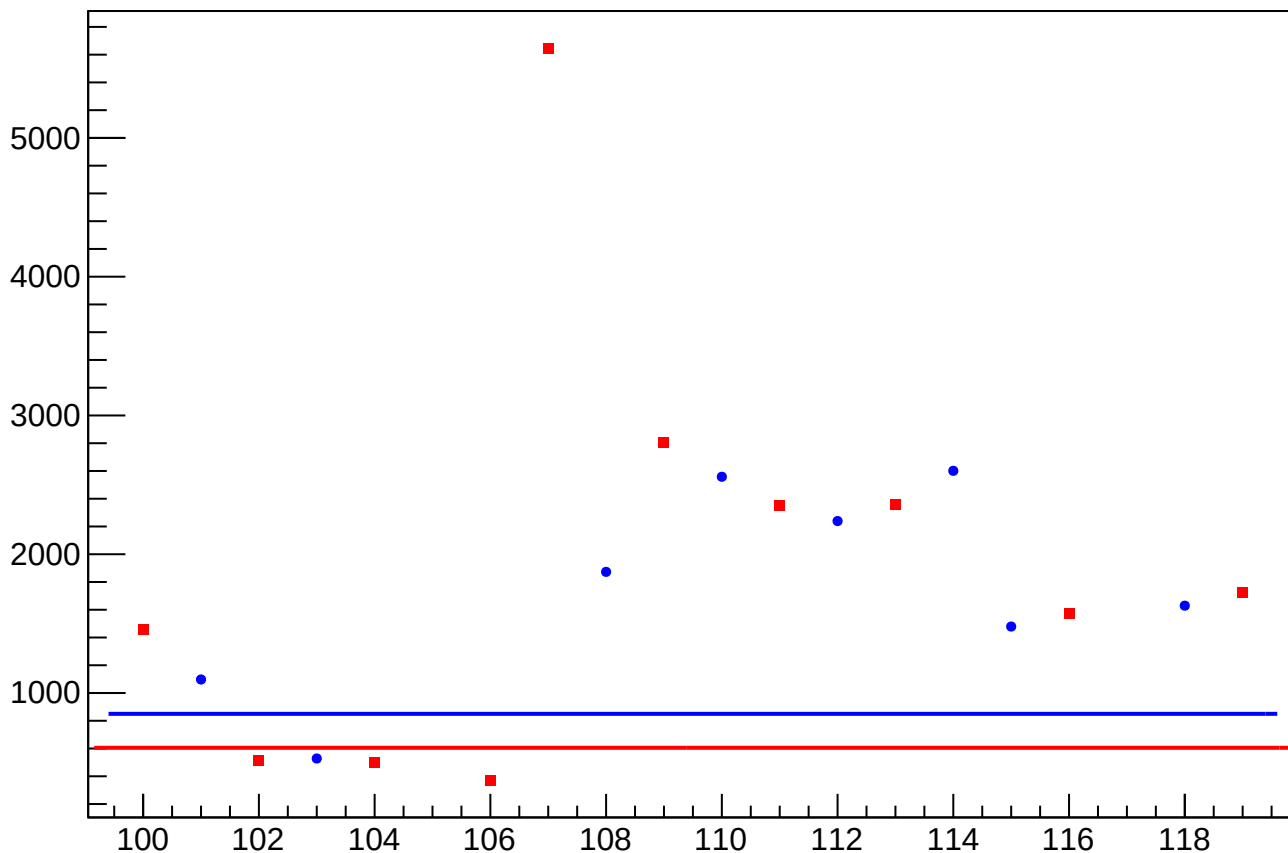
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 327.544 $\pm$ 318.469  $\chi^2$ /NDF: 19.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_correction\_rms vs Slug



Right In: 849.949+/-0.396  $\chi^2/\text{NDF}$ : 1862692.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 605.375+/-0.274  $\chi^2/\text{NDF}$ : 3033610.3/9

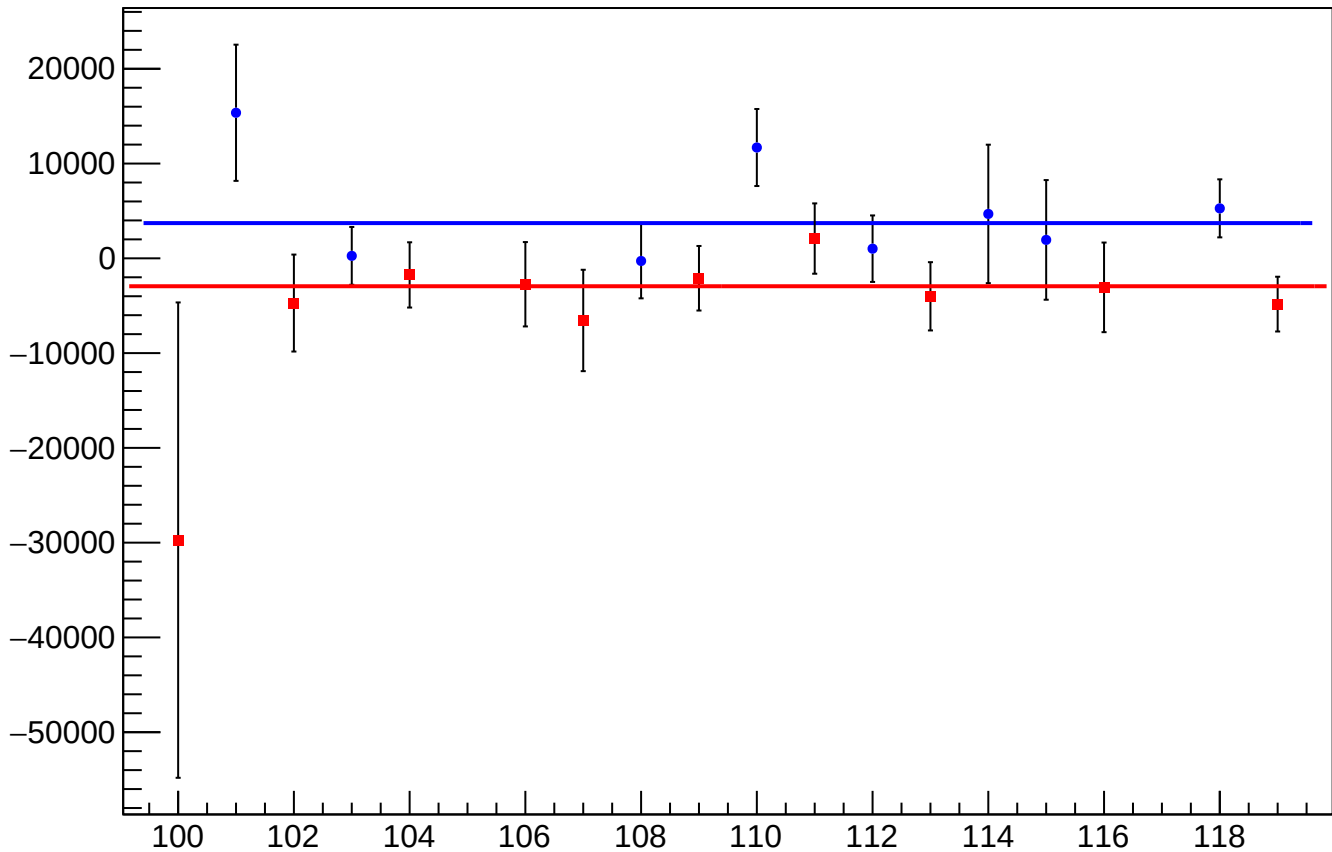
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 684.624+/-0.225  $\chi^2/\text{NDF}$ : 5154665.4/17

- 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: 3717.490+/-1438.118  $\chi^2/\text{NDF}$ : 9.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2945.209+/-1280.258  $\chi^2/\text{NDF}$ : 4.3/9

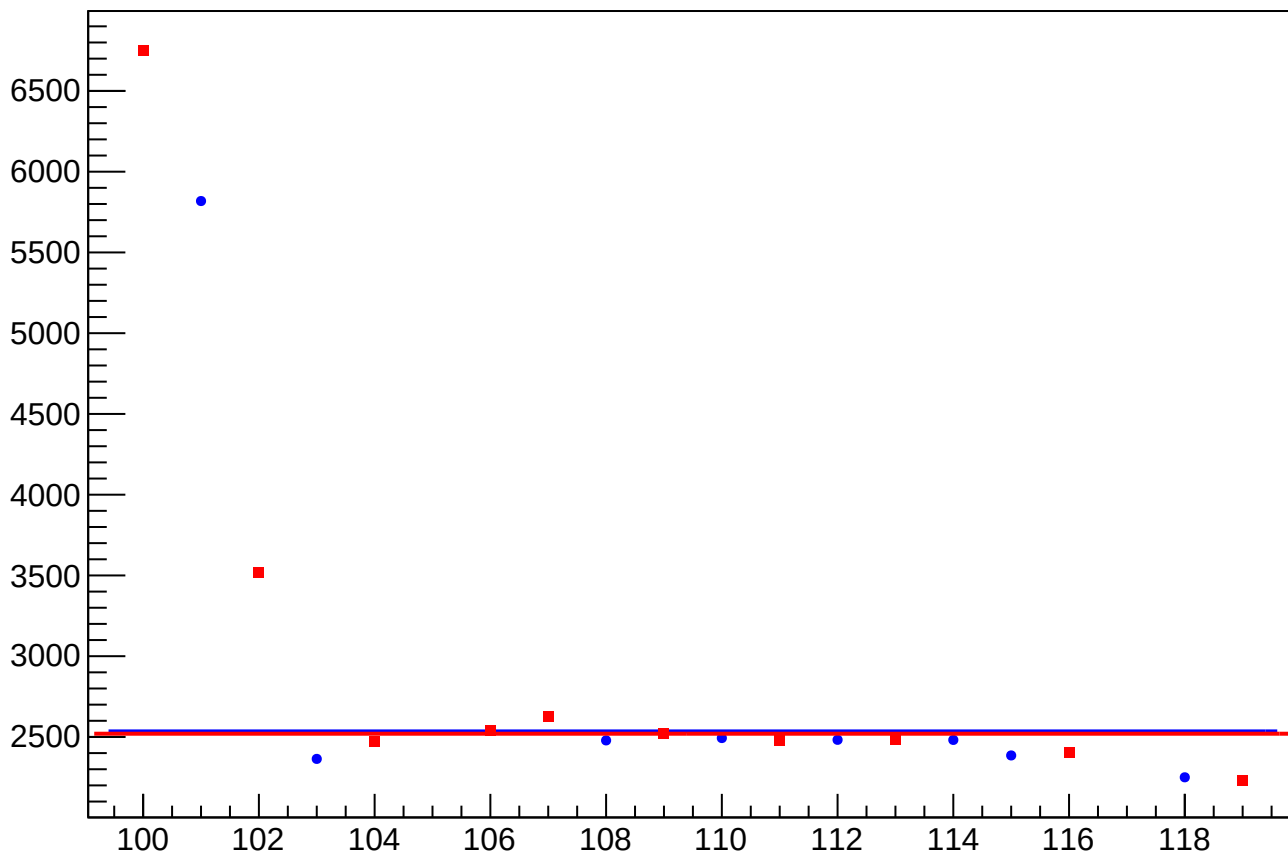
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.527+/-956.239  $\chi^2/\text{NDF}$ : 26.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2534.244+/-1.017  $\chi^2/\text{NDF}$ : 443487.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2519.991+/-0.905  $\chi^2/\text{NDF}$ : 156405.5/9

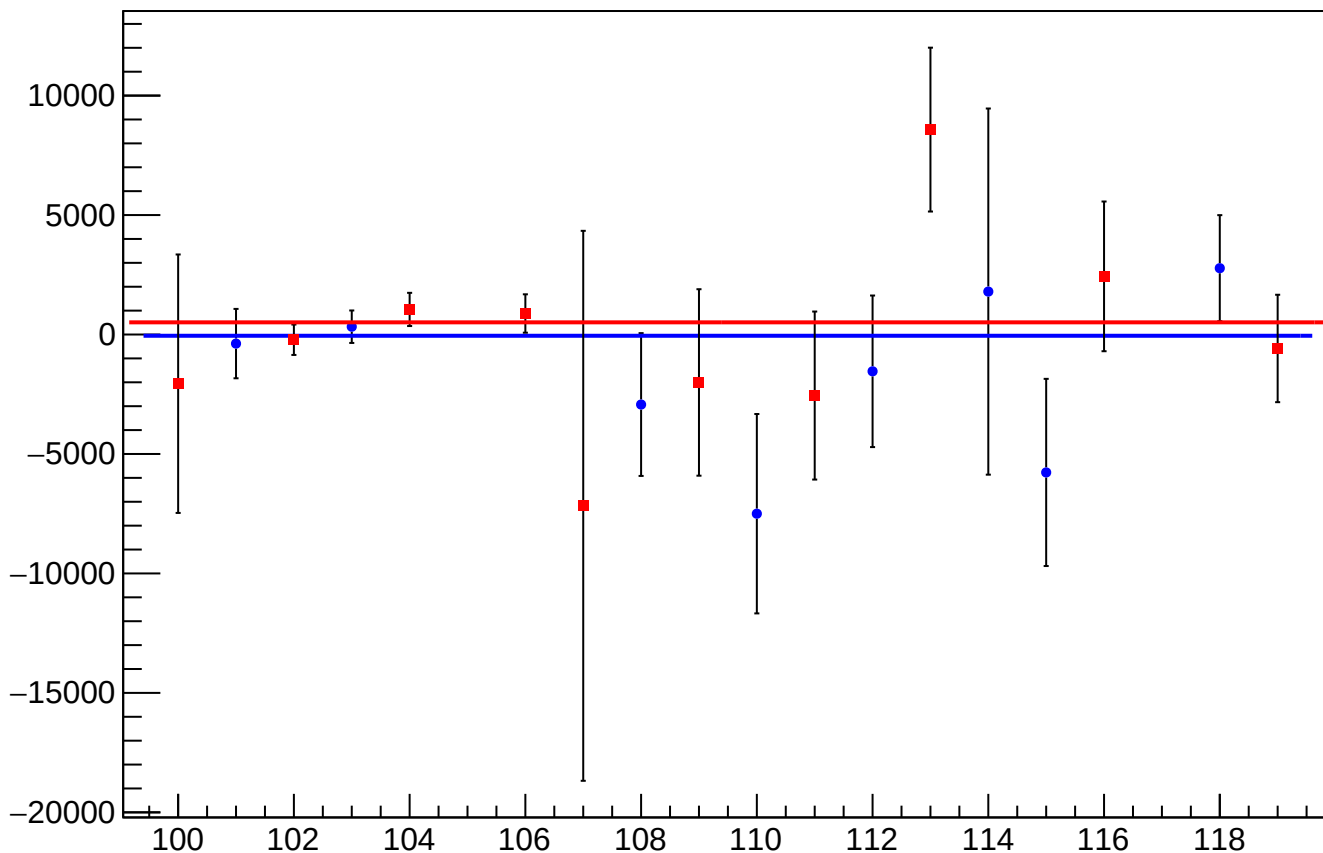
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2526.292+/-0.676  $\chi^2/\text{NDF}$ : 600002.8/17

- 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: -52.142+/-559.473  $\chi^2/\text{NDF}$ : 8.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 509.548+/-387.355  $\chi^2/\text{NDF}$ : 10.1/9

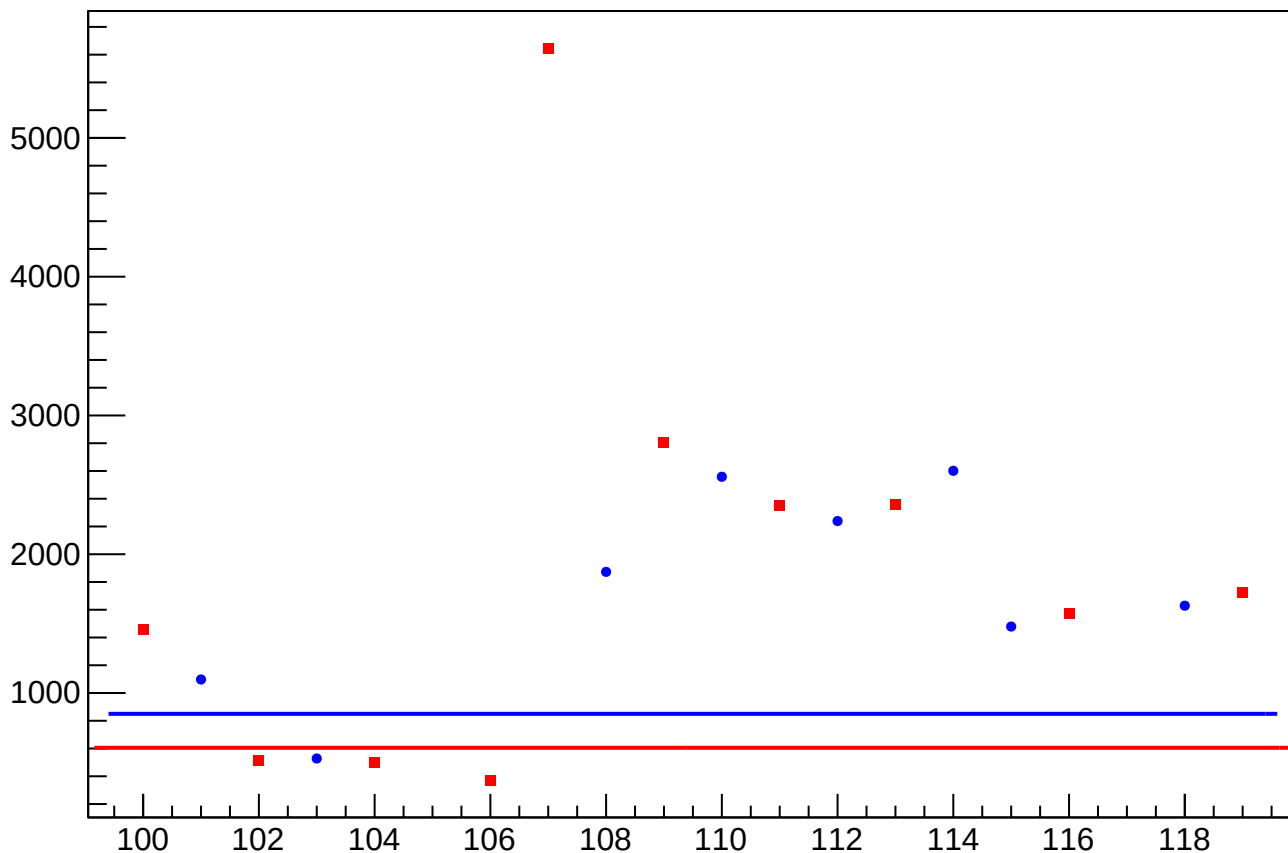
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 327.543+/-318.473  $\chi^2/\text{NDF}$ : 19.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 849.959+/-0.396  $\chi^2/\text{NDF}$ : 1862661.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 605.388+/-0.274  $\chi^2/\text{NDF}$ : 3033558.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

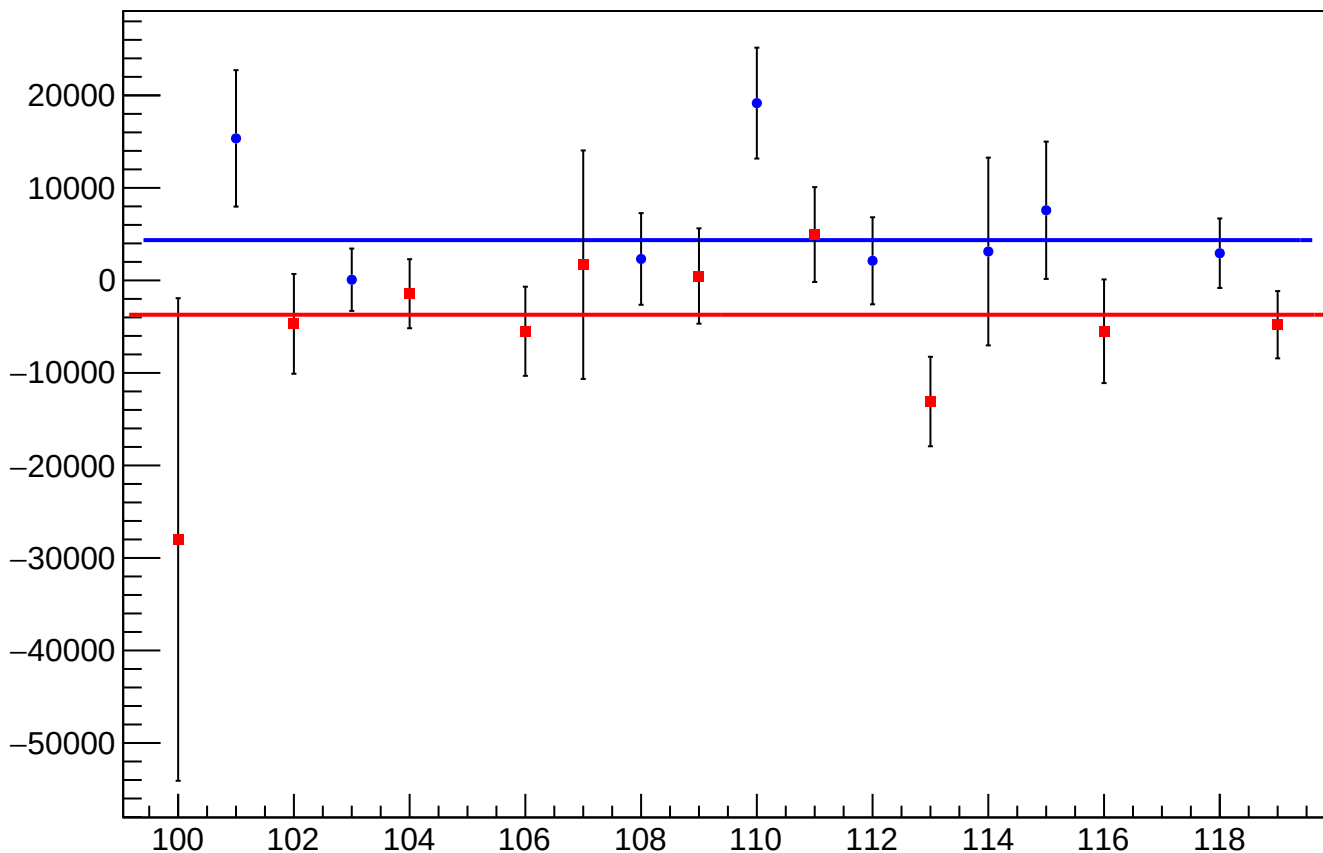
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 684.636+/-0.225  $\chi^2/\text{NDF}$ : 5154570.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug



Right In: 4355.151+/-1770.737  $\chi^2/\text{NDF}$ : 10.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3709.600+/-1615.438  $\chi^2/\text{NDF}$ : 9.1/9

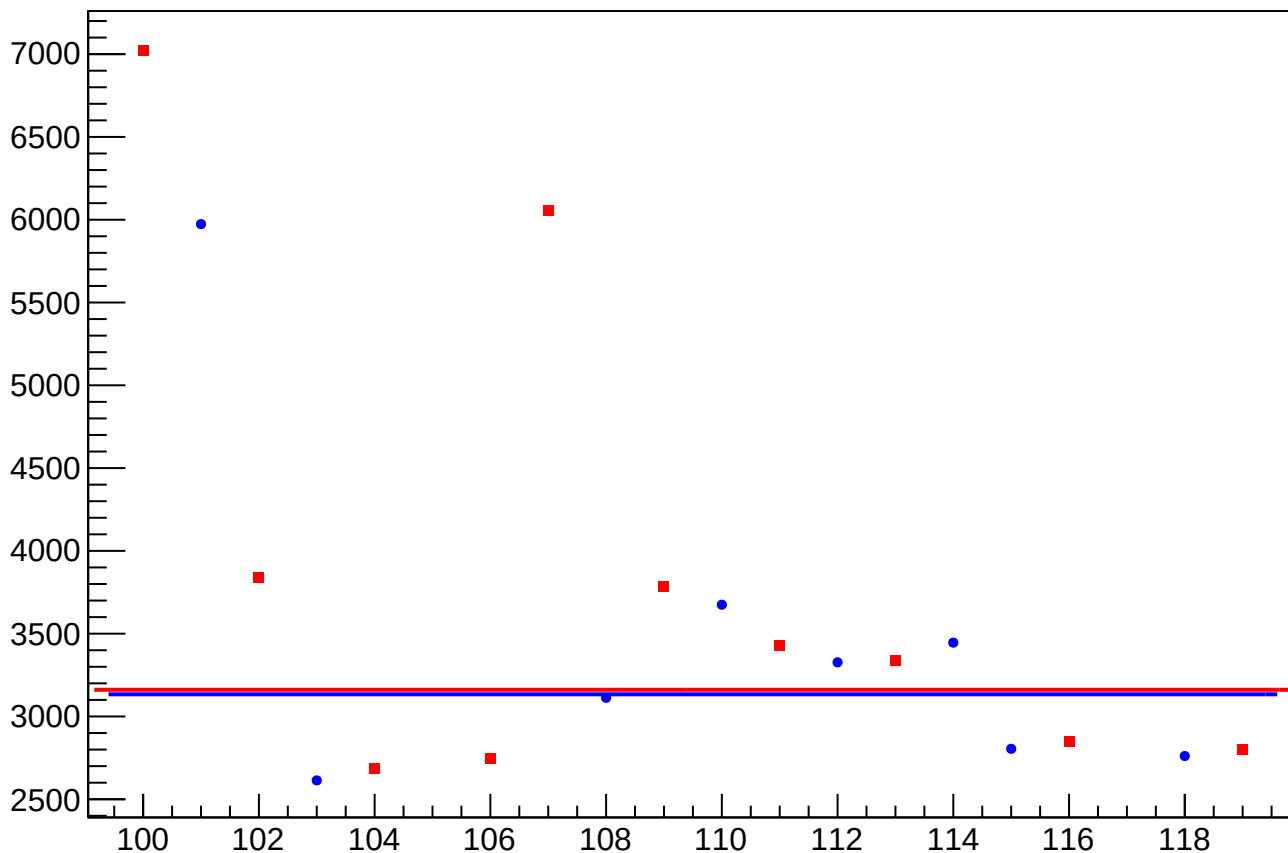
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -46.318+/-1193.421  $\chi^2/\text{NDF}$ : 31.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 3133.818+/-1.252  $\chi^2/\text{NDF}$ : 389268.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3161.123+/-1.142  $\chi^2/\text{NDF}$ : 294999.0/9

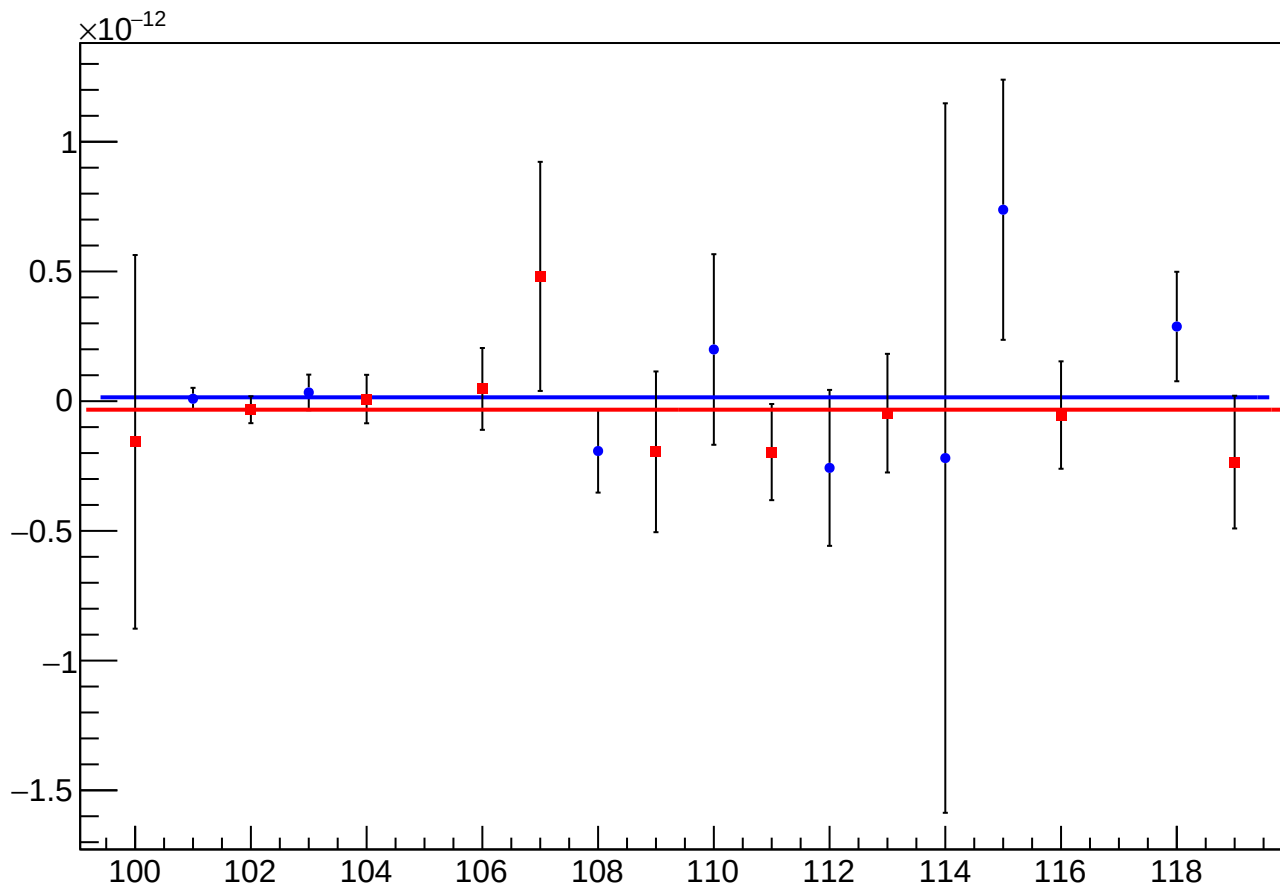
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3148.720+/-0.844  $\chi^2/\text{NDF}$ : 684527.5/17

- sign 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+/-0.000  $\chi^2/\text{NDF}$ : 6.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.5/9

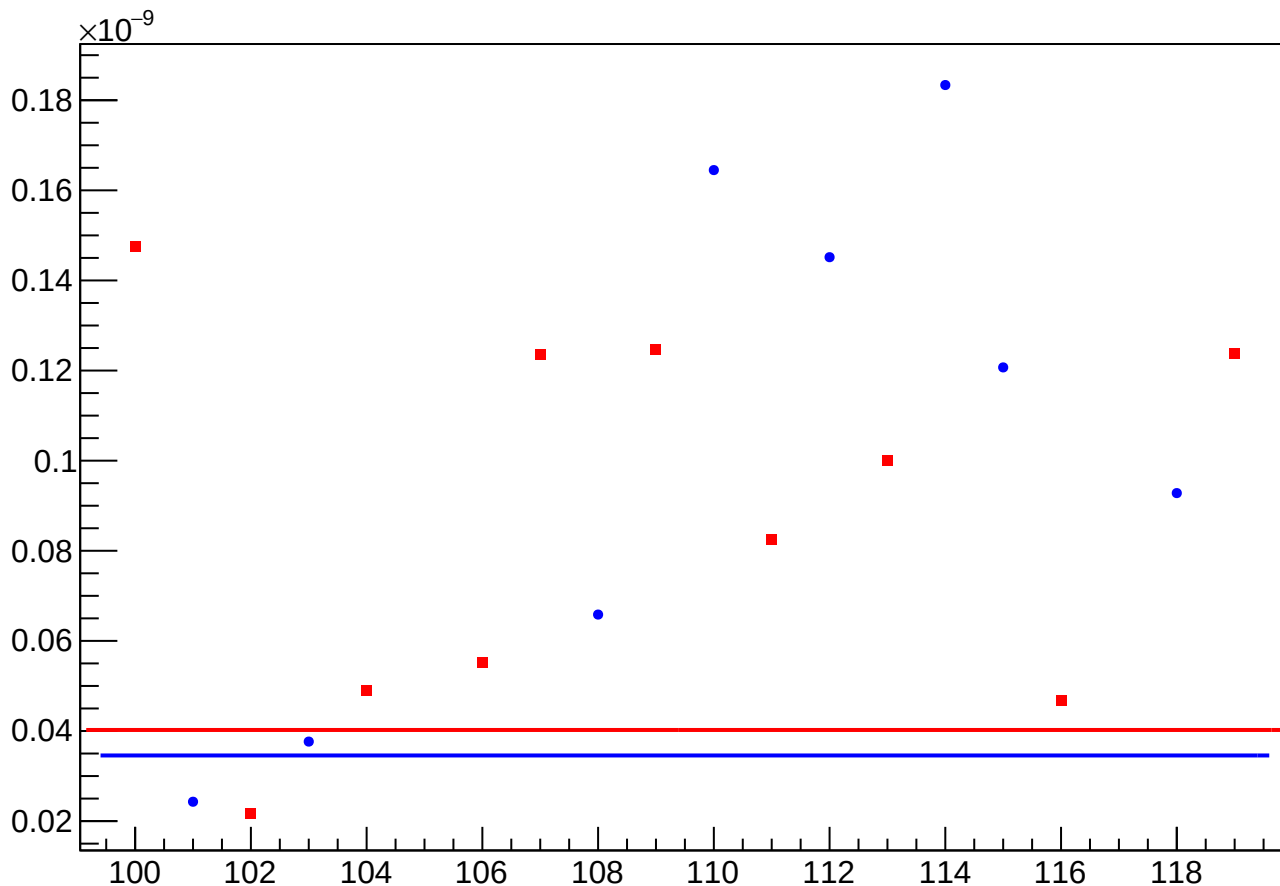
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 954995.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1012170.3/9

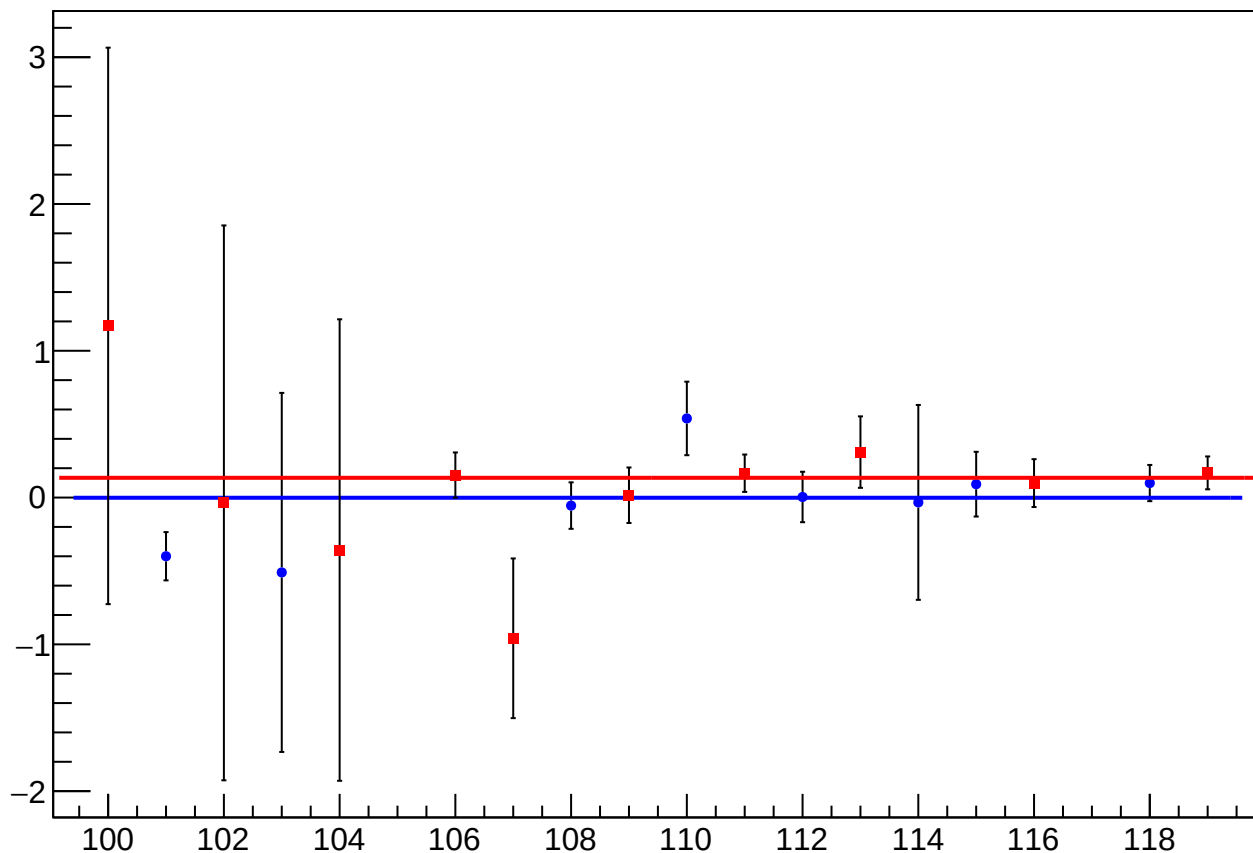
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1990468.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.001 $\pm$ 0.068  $\chi^2$ /NDF: 11.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.135 $\pm$ 0.061  $\chi^2$ /NDF: 5.6/9

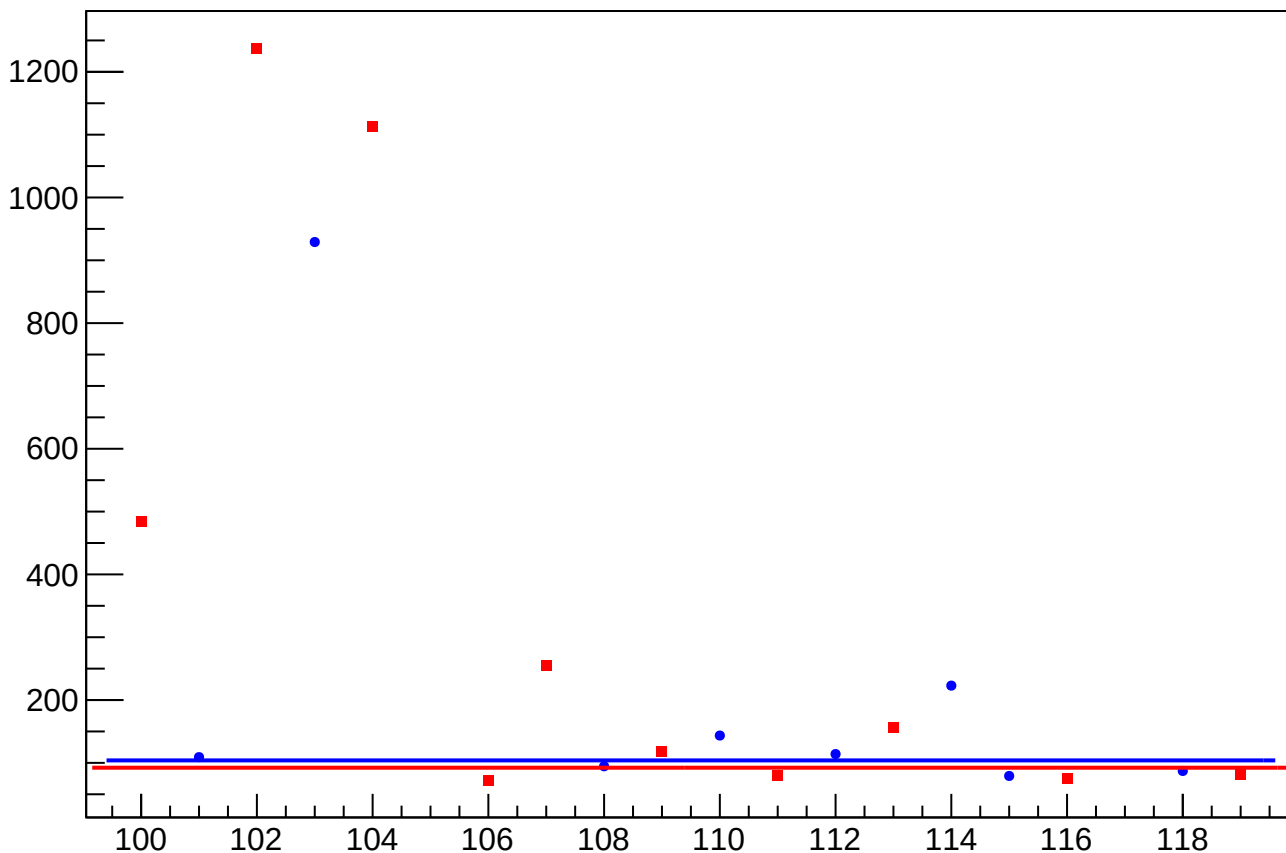
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.074 $\pm$ 0.045  $\chi^2$ /NDF: 19.4/17

- 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: 103.929 $\pm$ 0.048  $\chi^2$ /NDF: 1102937.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 92.288 $\pm$ 0.043  $\chi^2$ /NDF: 2119267.0/9

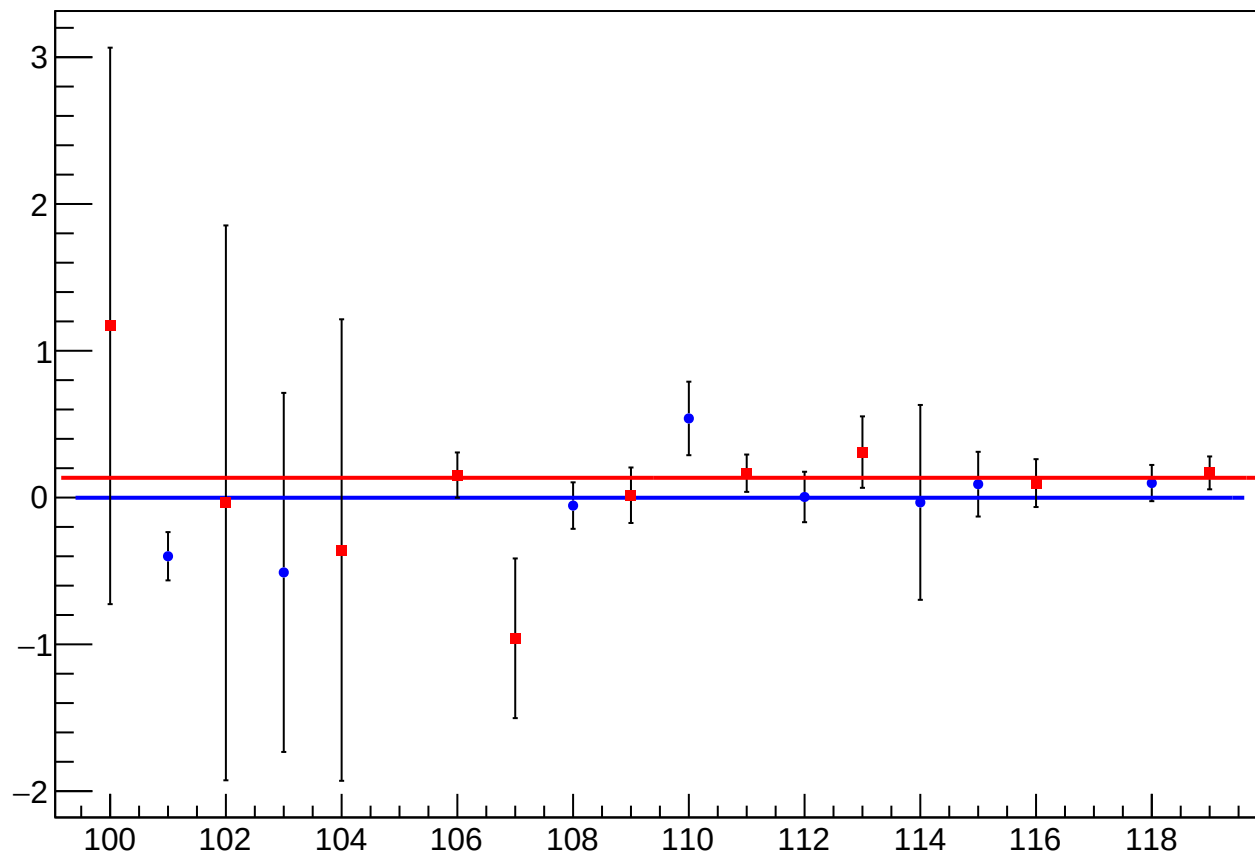
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 97.455 $\pm$ 0.032  $\chi^2$ /NDF: 3254739.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.001 $\pm$ 0.068  $\chi^2$ /NDF: 11.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.135 $\pm$ 0.061  $\chi^2$ /NDF: 5.6/9

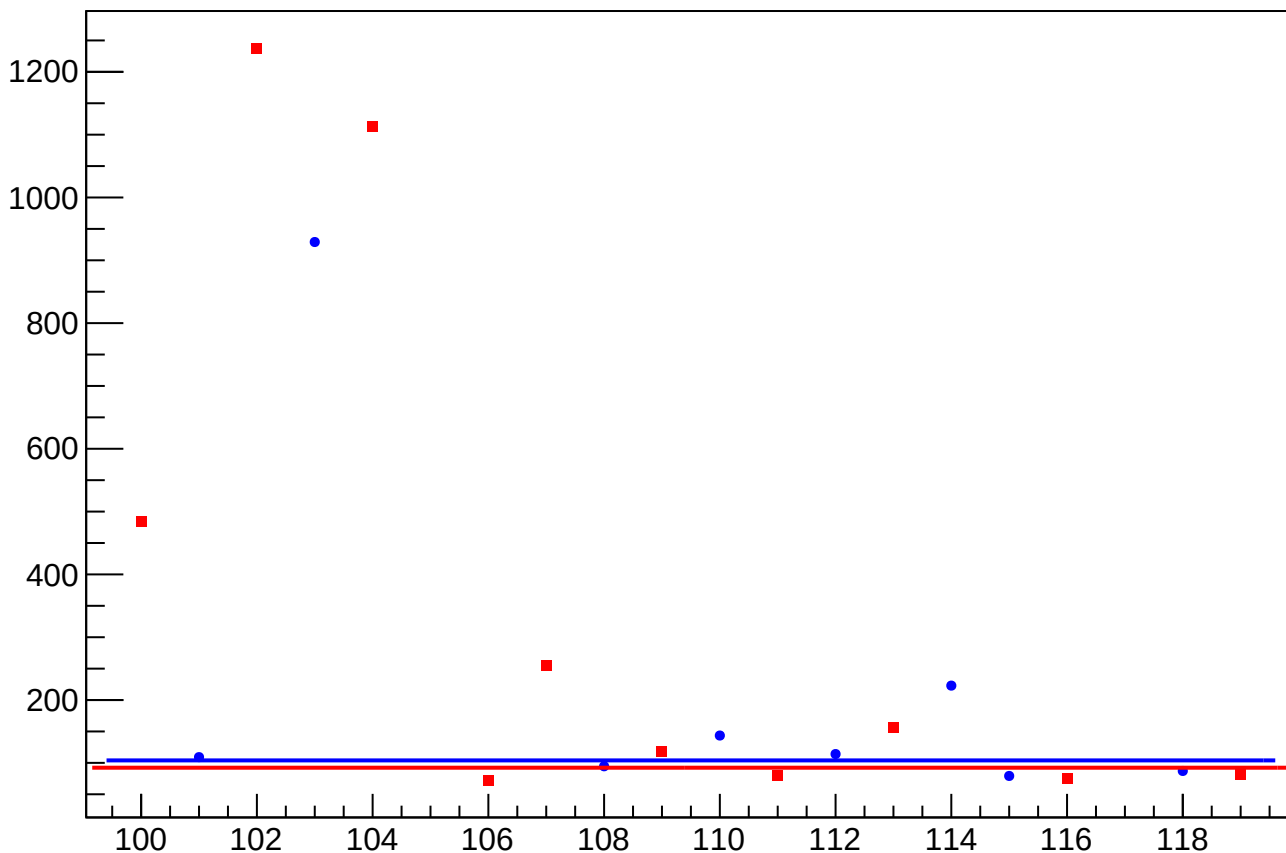
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.074 $\pm$ 0.045  $\chi^2$ /NDF: 19.4/17

- 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: 103.929+/-0.048  $\chi^2/\text{NDF}$ : 1102937.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 92.288+/-0.043  $\chi^2/\text{NDF}$ : 2119267.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

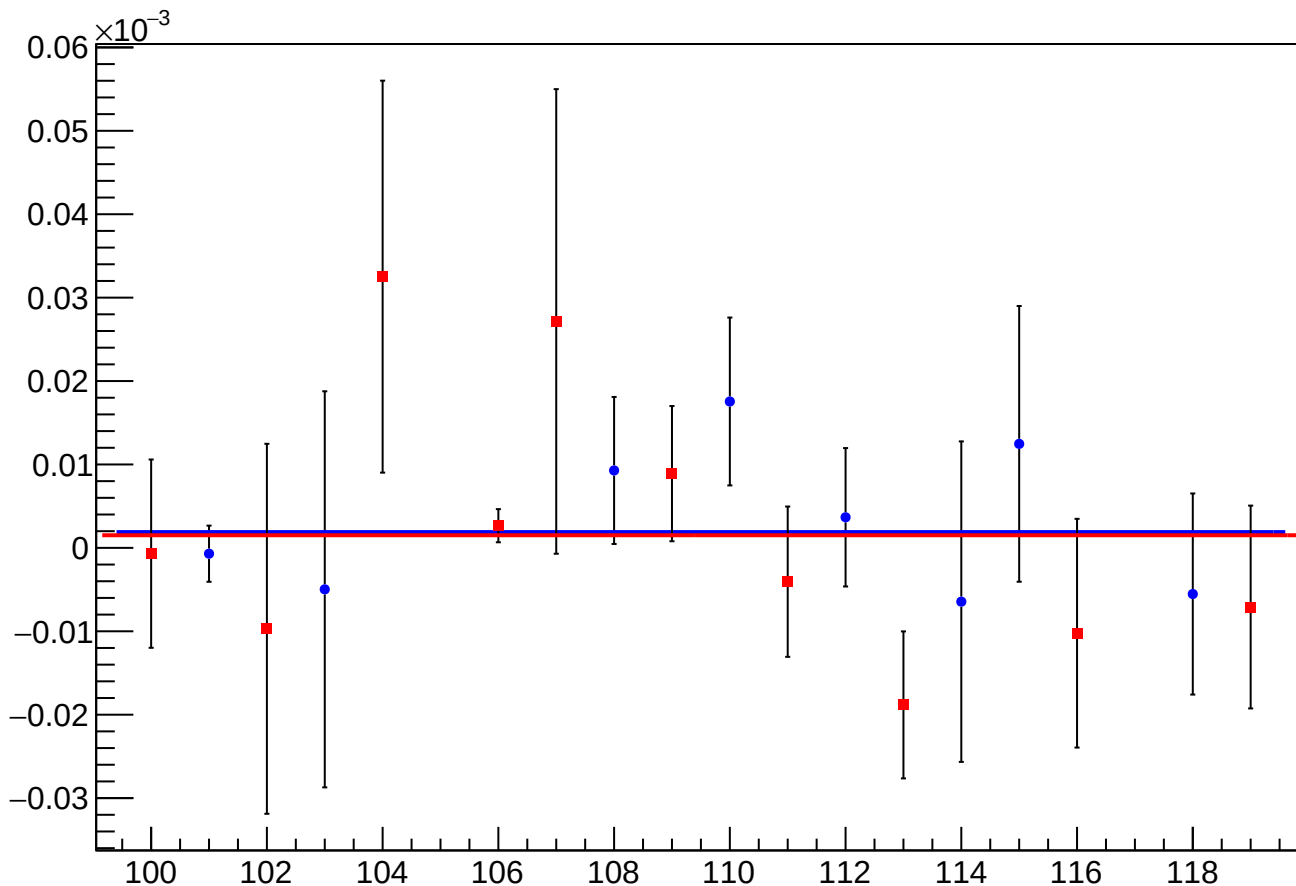
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 97.455+/-0.032  $\chi^2/\text{NDF}$ : 3254739.9/17

- 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: 4.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.0/9

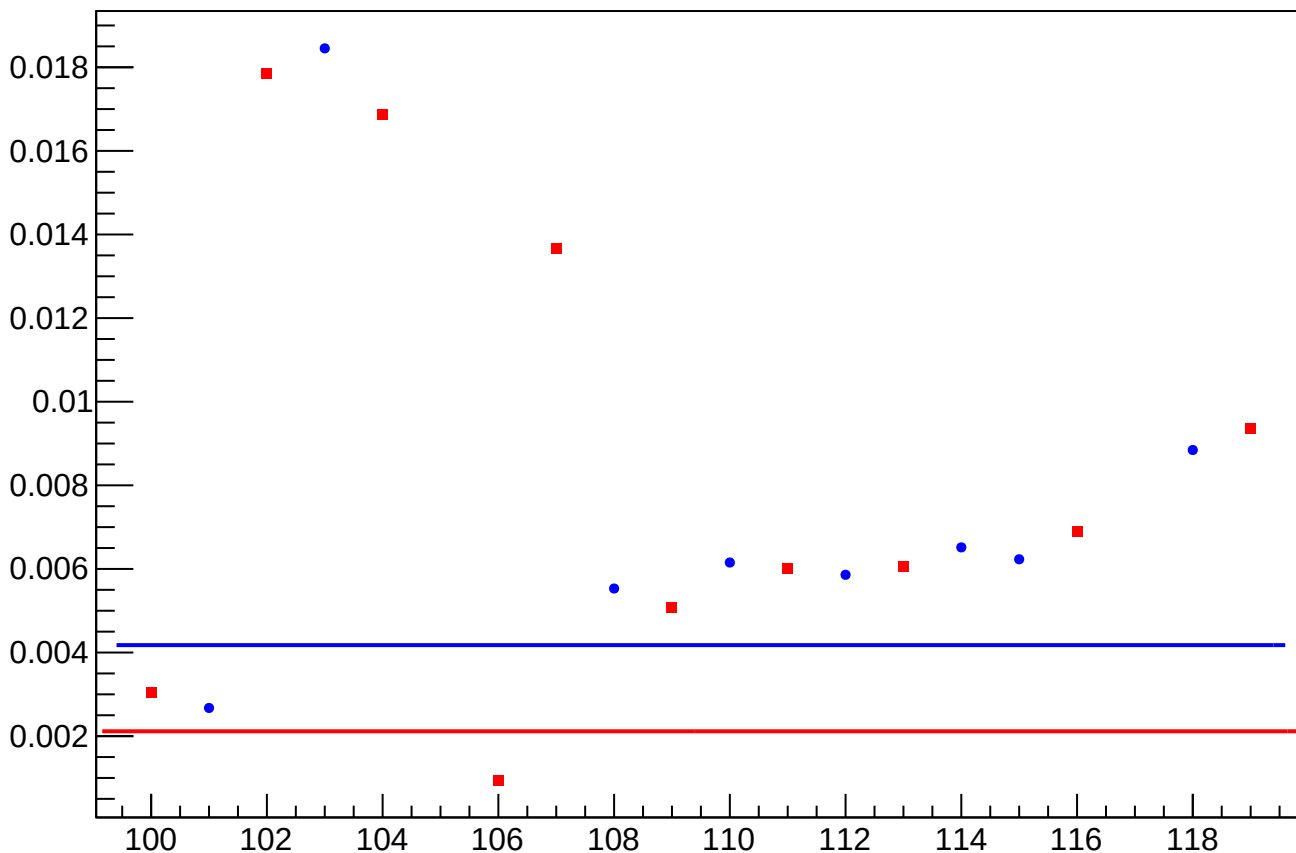
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.8/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 1688703.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 4861585.9/9

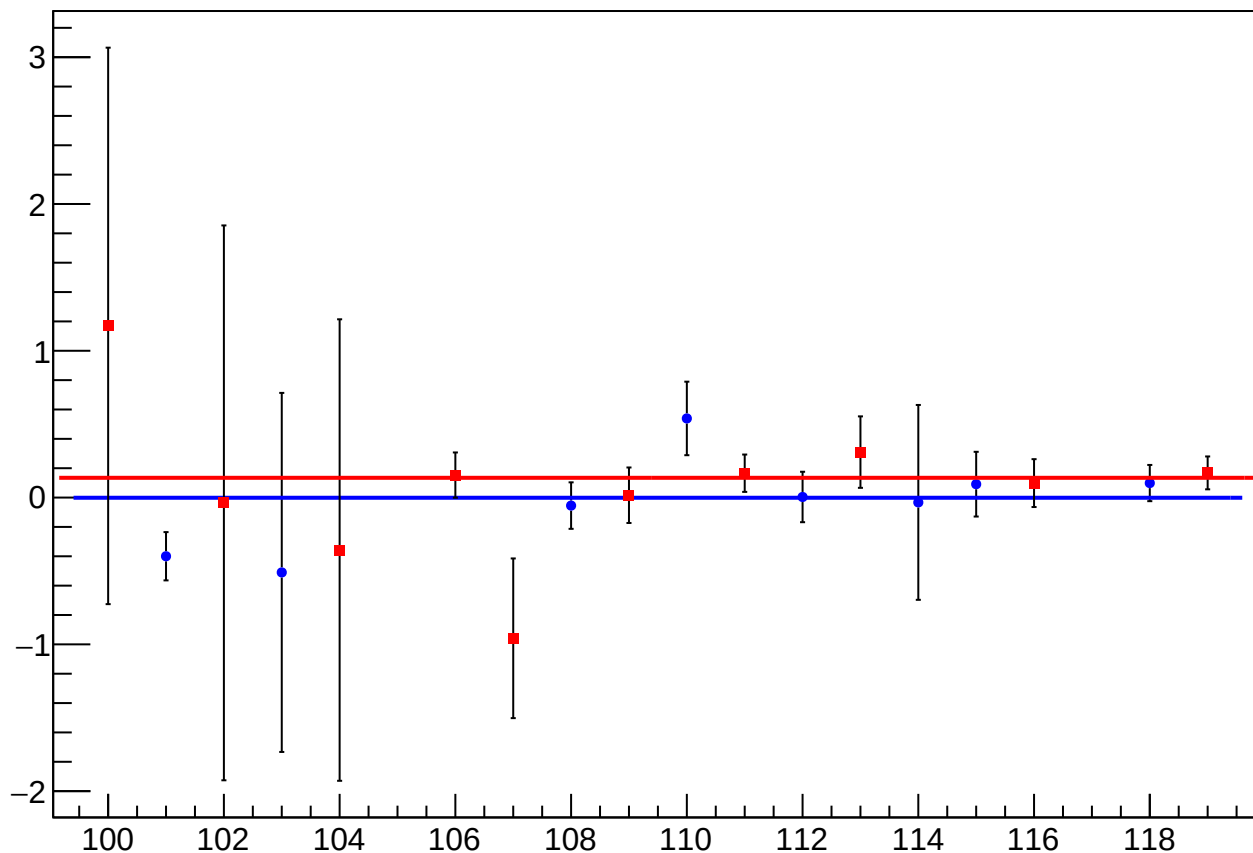
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 7379013.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.001 $\pm$ 0.068  $\chi^2$ /NDF: 11.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.135 $\pm$ 0.061  $\chi^2$ /NDF: 5.6/9

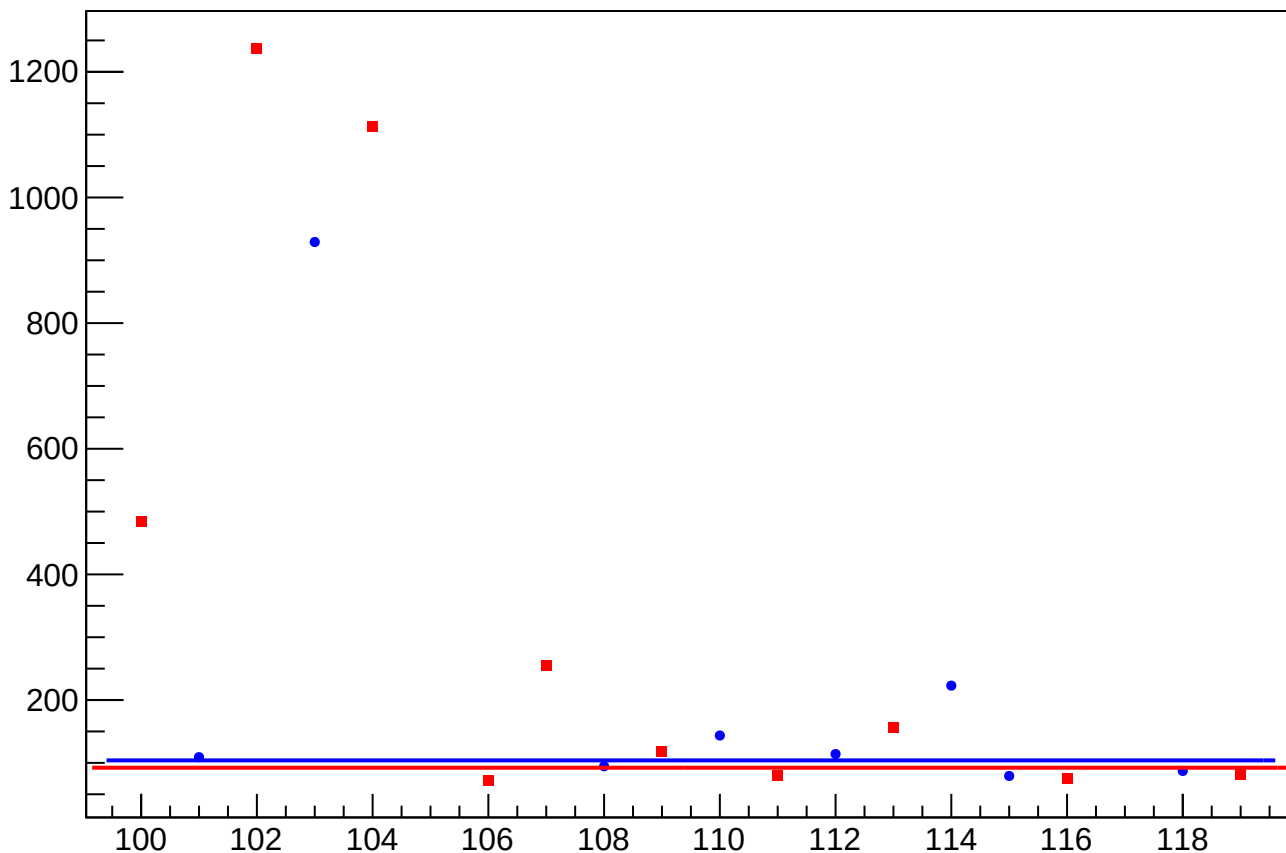
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.074 $\pm$ 0.045  $\chi^2$ /NDF: 19.4/17

- 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: 103.928+/-0.048  $\chi^2/\text{NDF}$ : 1102949.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 92.286+/-0.043  $\chi^2/\text{NDF}$ : 2119258.6/9

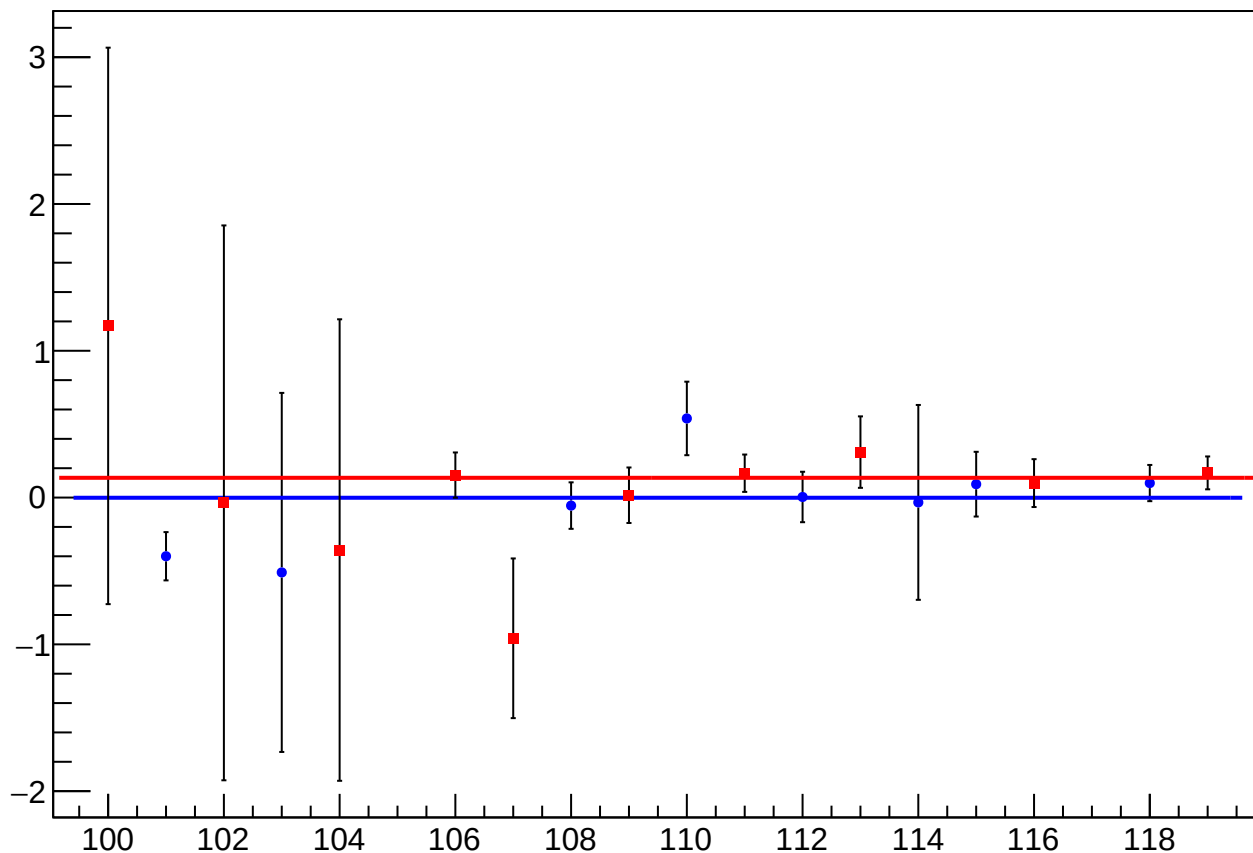
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 97.453+/-0.032  $\chi^2/\text{NDF}$ : 3254749.3/17

- 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: -0.001 $\pm$ 0.068  $\chi^2$ /NDF: 11.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.135 $\pm$ 0.061  $\chi^2$ /NDF: 5.6/9

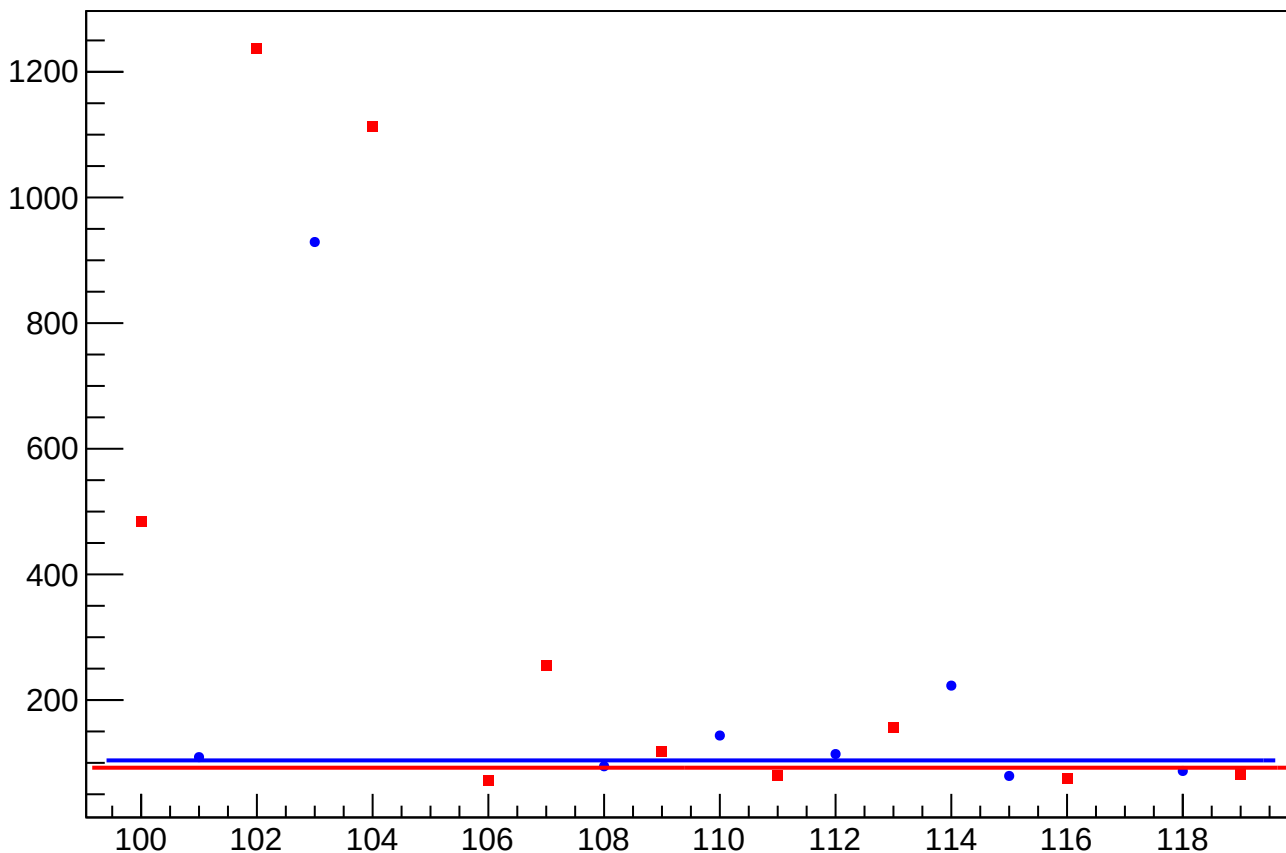
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.074 $\pm$ 0.045  $\chi^2$ /NDF: 19.4/17

- 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: 103.928+/-0.048  $\chi^2/\text{NDF}$ : 1102949.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 92.286+/-0.043  $\chi^2/\text{NDF}$ : 2119258.6/9

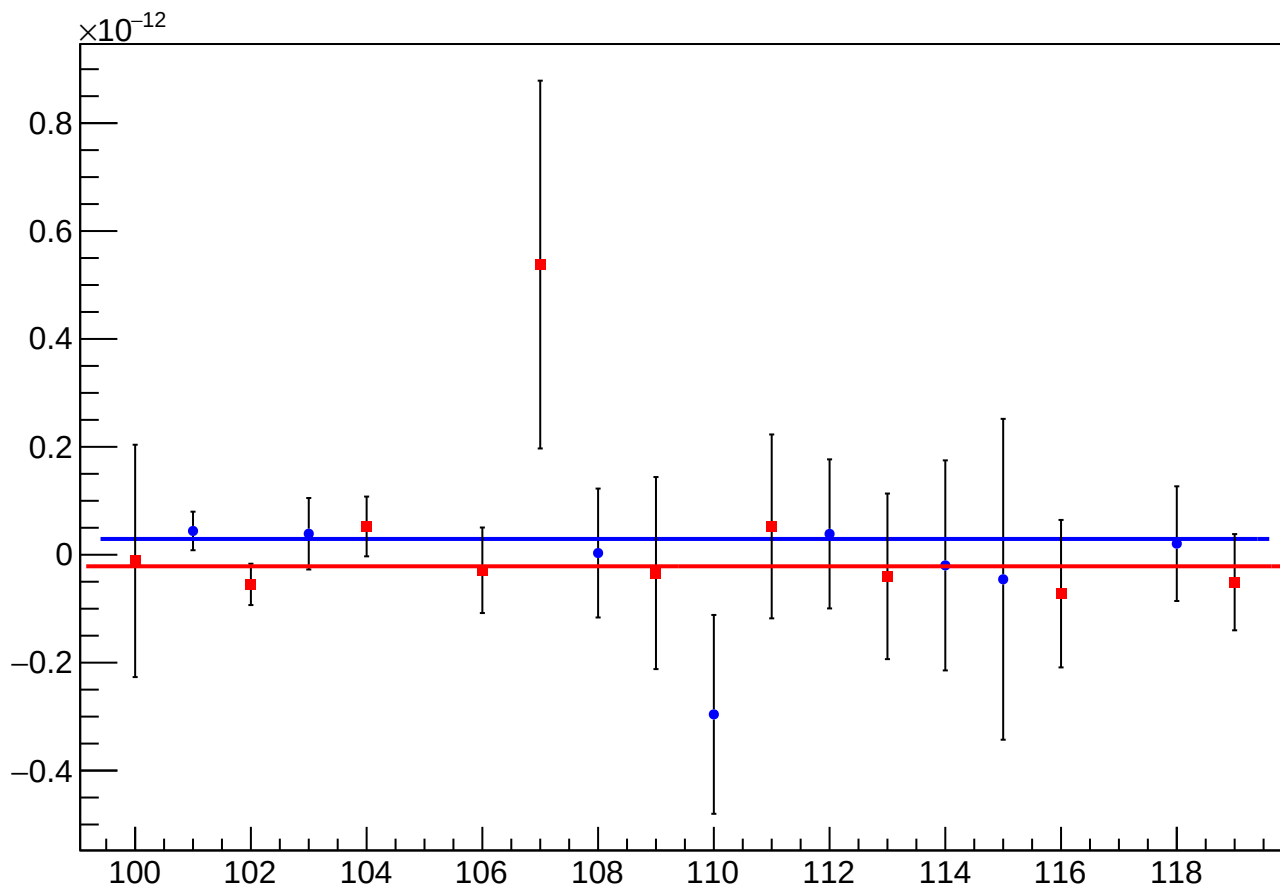
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 97.453+/-0.032  $\chi^2/\text{NDF}$ : 3254749.3/17

- 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  $\chi^2/\text{NDF}$ : 3.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.7/9

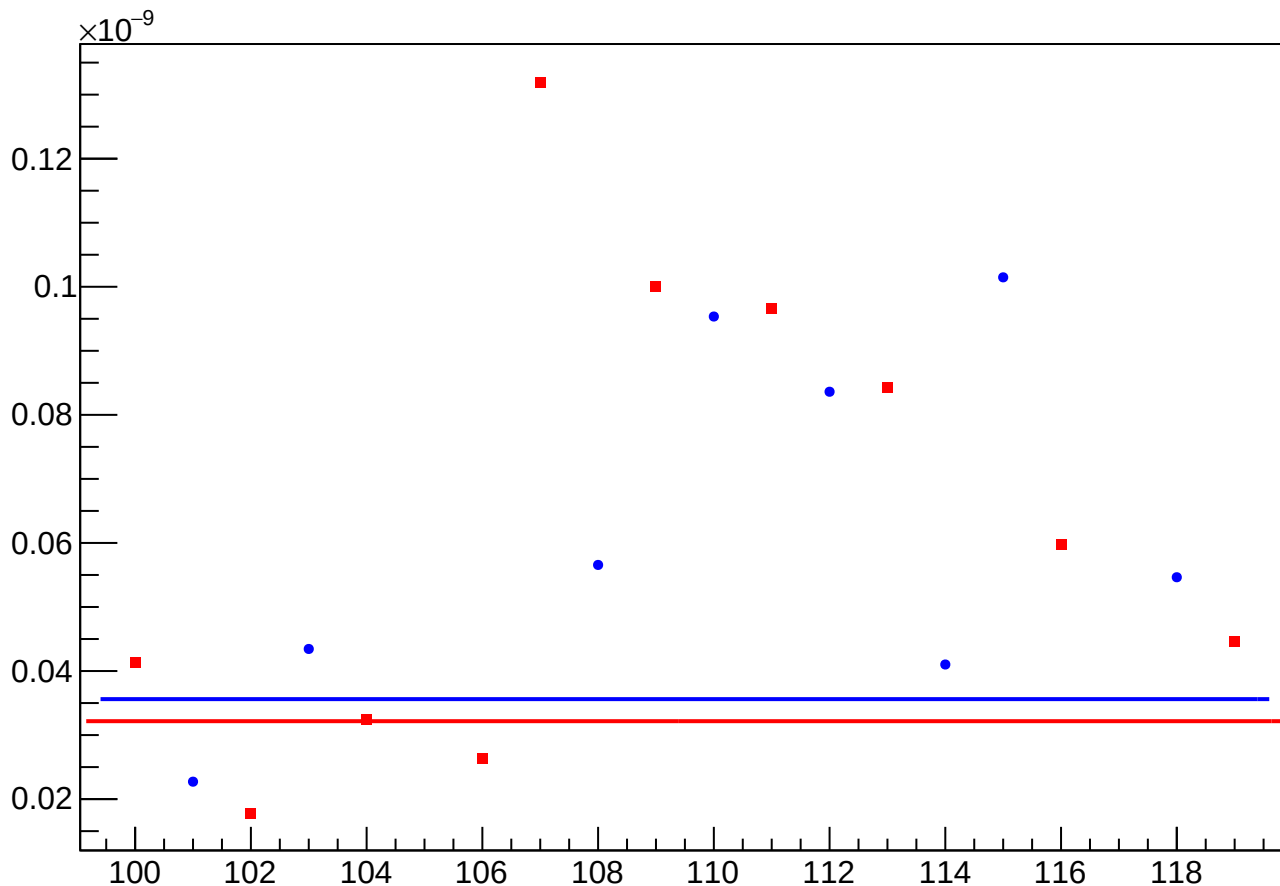
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.0/17

- 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  $\chi^2/\text{NDF}$ : 965221.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1396155.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

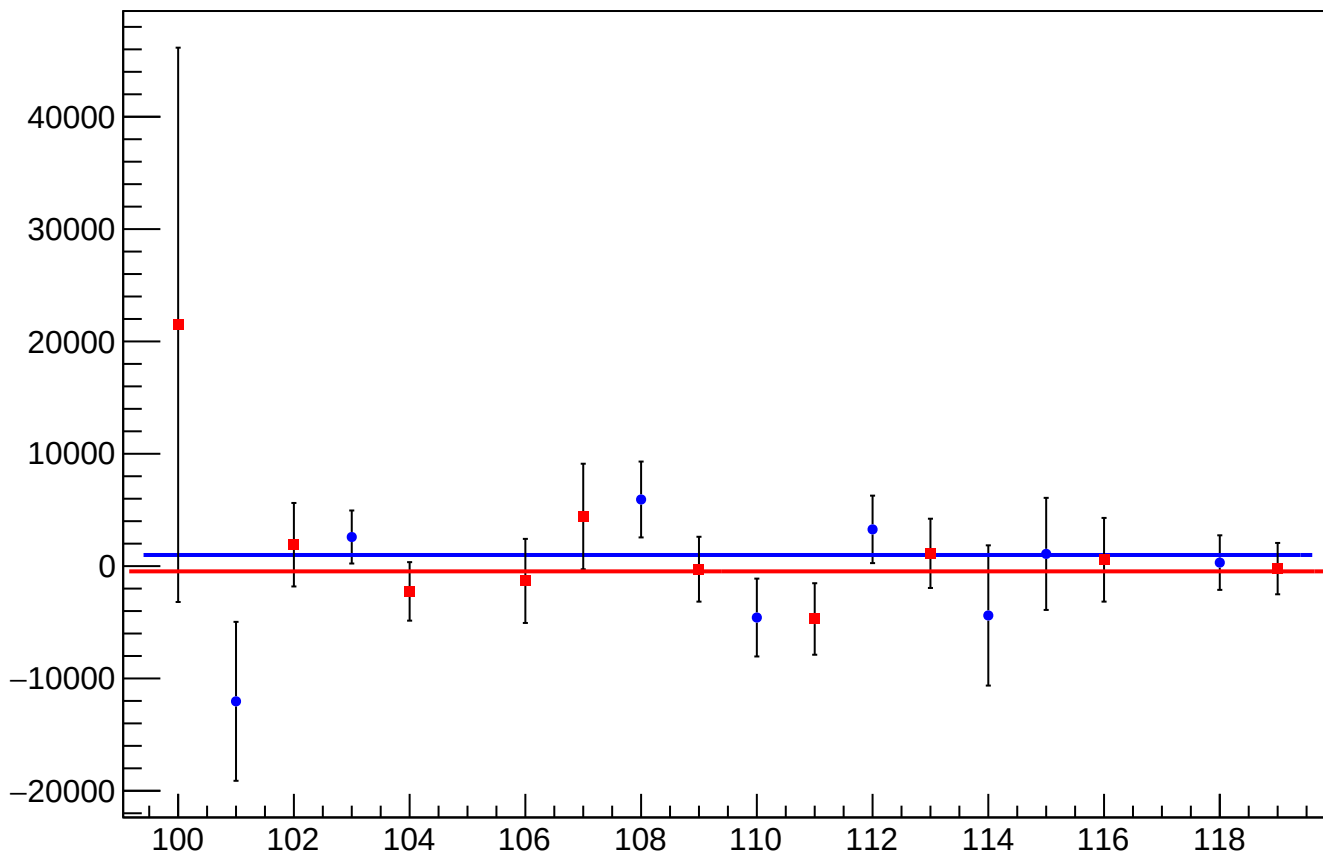
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2377745.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 991.268+/-1181.112  $\chi^2/\text{NDF}$ : 10.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -466.793+/-1039.342  $\chi^2/\text{NDF}$ : 4.9/9

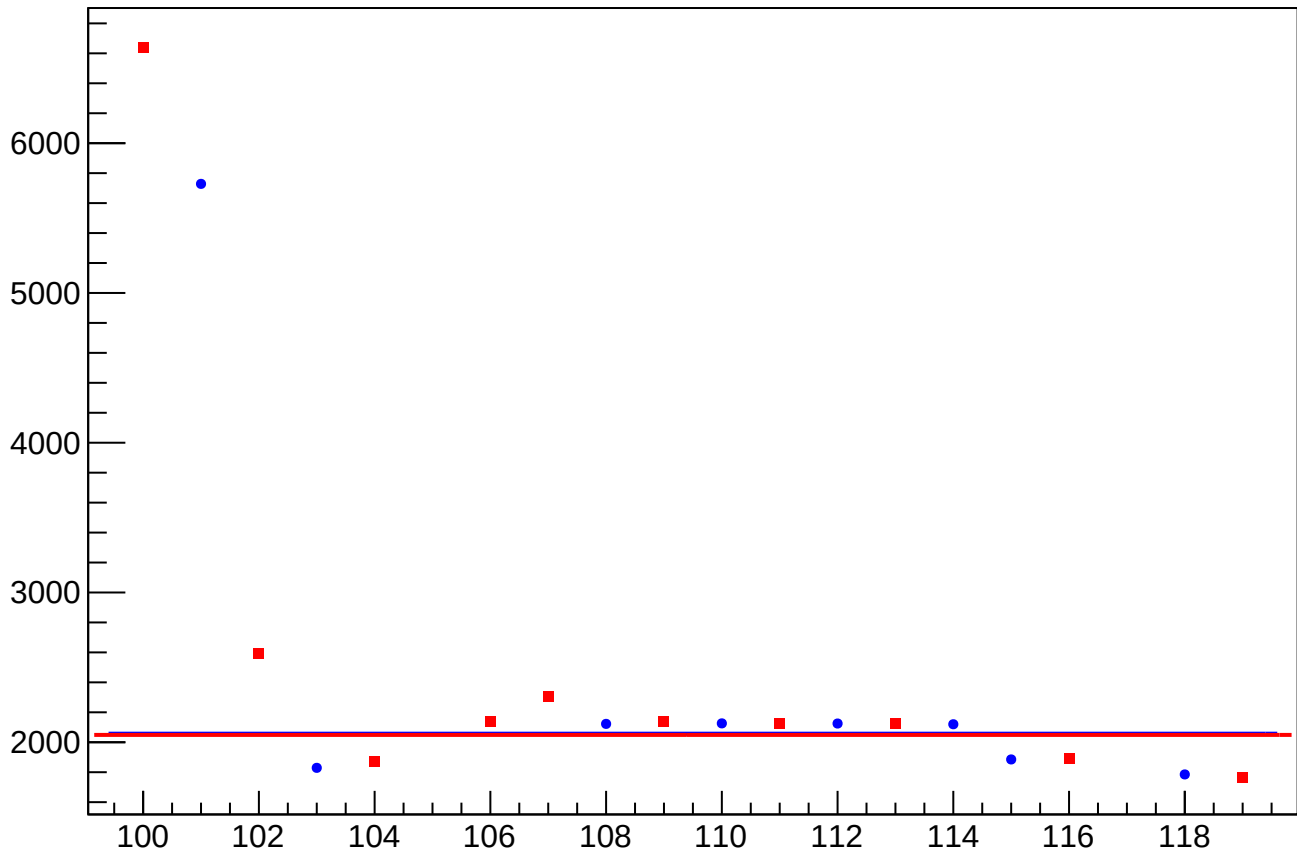
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 169.522+/-780.260  $\chi^2/\text{NDF}$ : 15.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 2057.205+/-0.835  $\chi^2/\text{NDF}$ : 587551.8/7

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

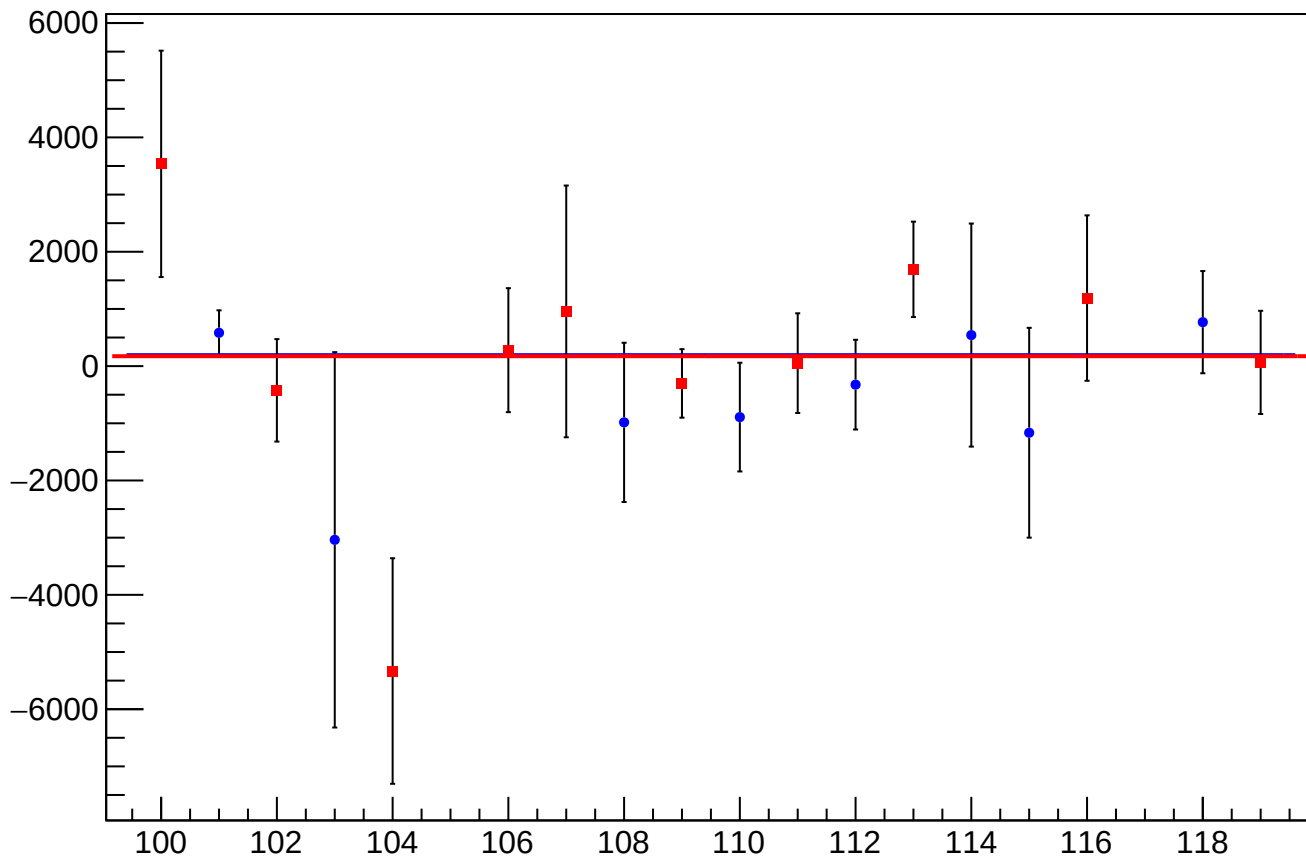
Right Out: 2049.055+/-0.735  $\chi^2/\text{NDF}$ : 167652.3/9

All: 2052.612+/-0.552  $\chi^2/\text{NDF}$ : 755257.8/17

- 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\_correction\_mean vs Slug



Right In: 191.203+/-293.473  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 173.435+/-315.302  $\chi^2/\text{NDF}$ : 15.7/9

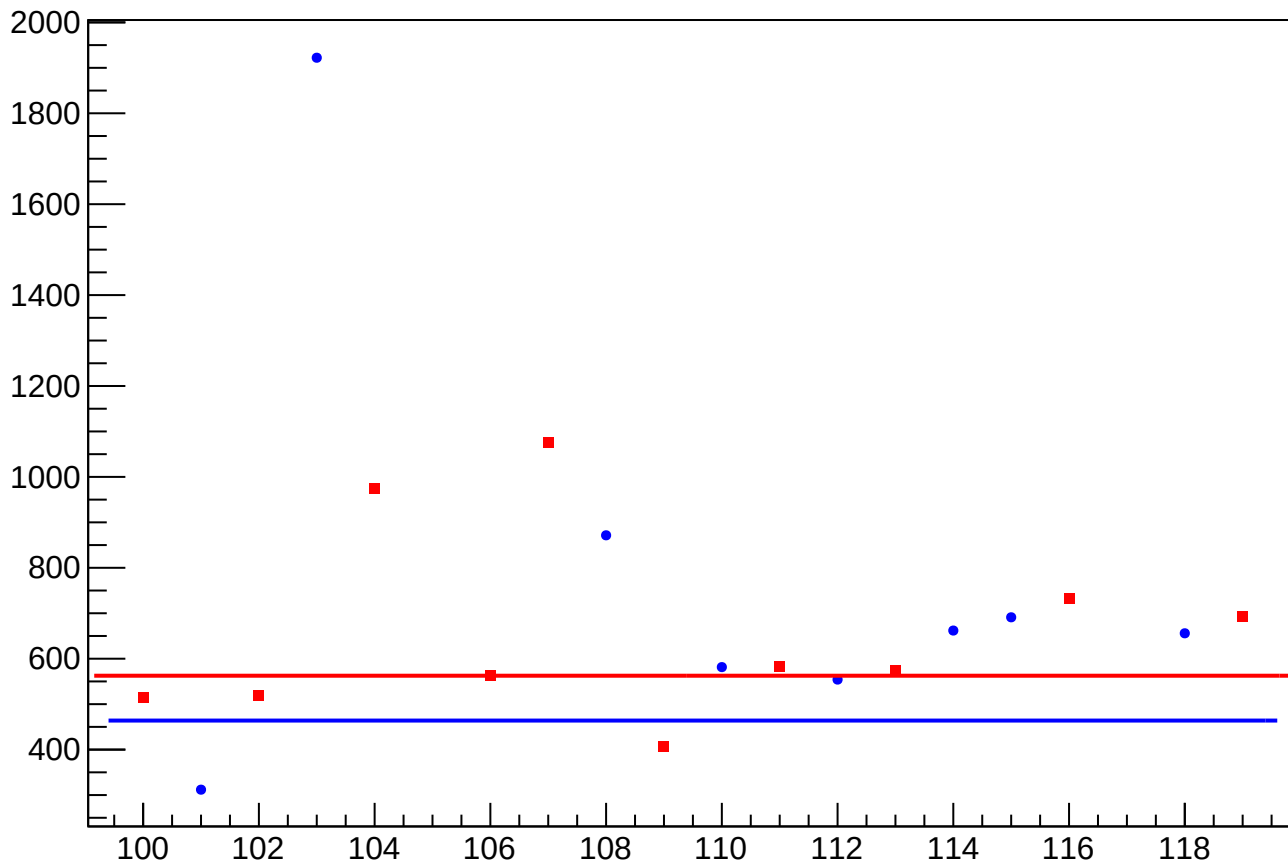
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 182.955+/-214.820  $\chi^2/\text{NDF}$ : 21.1/17

- 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: 463.902 $\pm$ 0.208  $\chi^2$ /NDF: 1065469.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 562.570 $\pm$ 0.223  $\chi^2$ /NDF: 407602.6/9

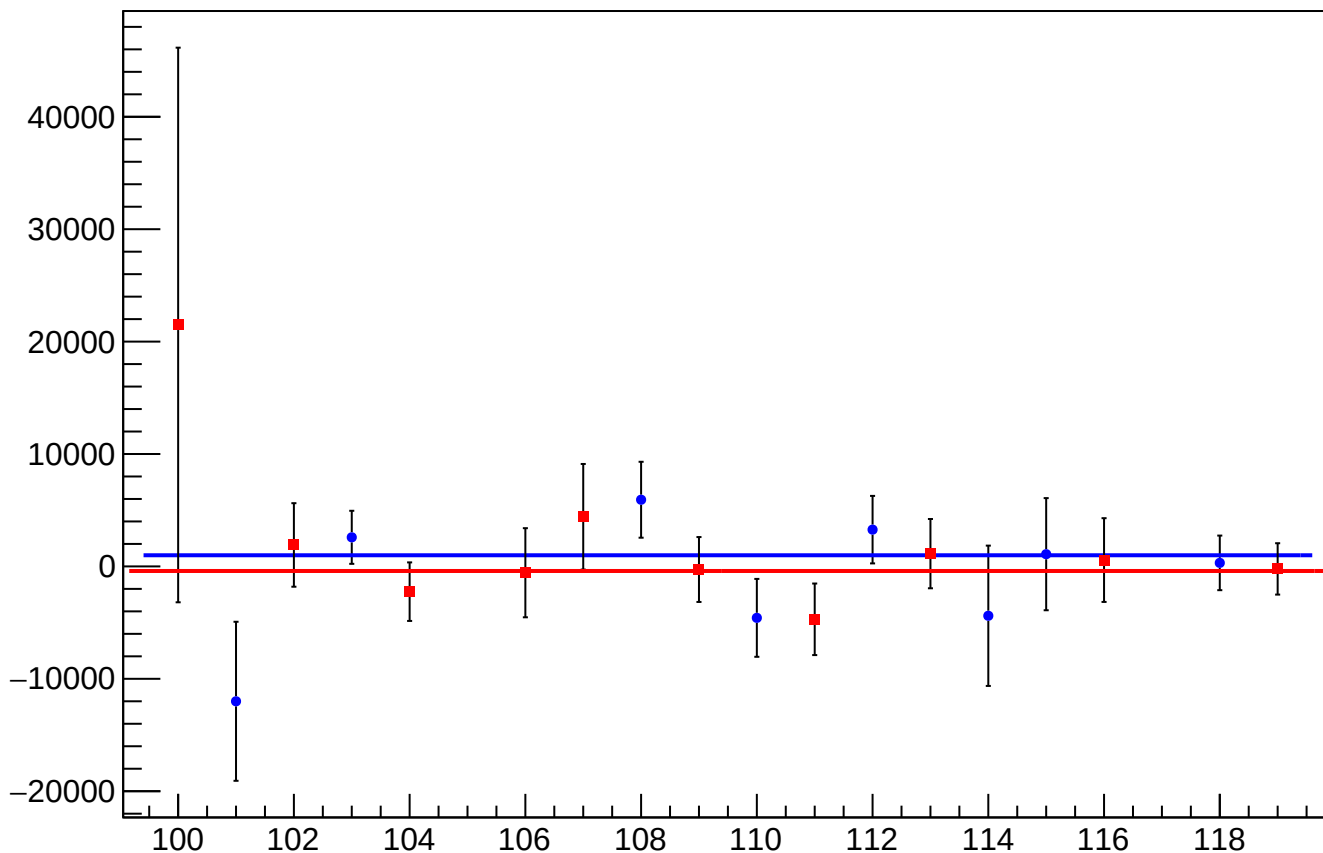
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 509.703 $\pm$ 0.152  $\chi^2$ /NDF: 1578012.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 991.505+/-1181.112  $\chi^2/\text{NDF}$ : 10.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -406.928+/-1043.735  $\chi^2/\text{NDF}$ : 4.9/9

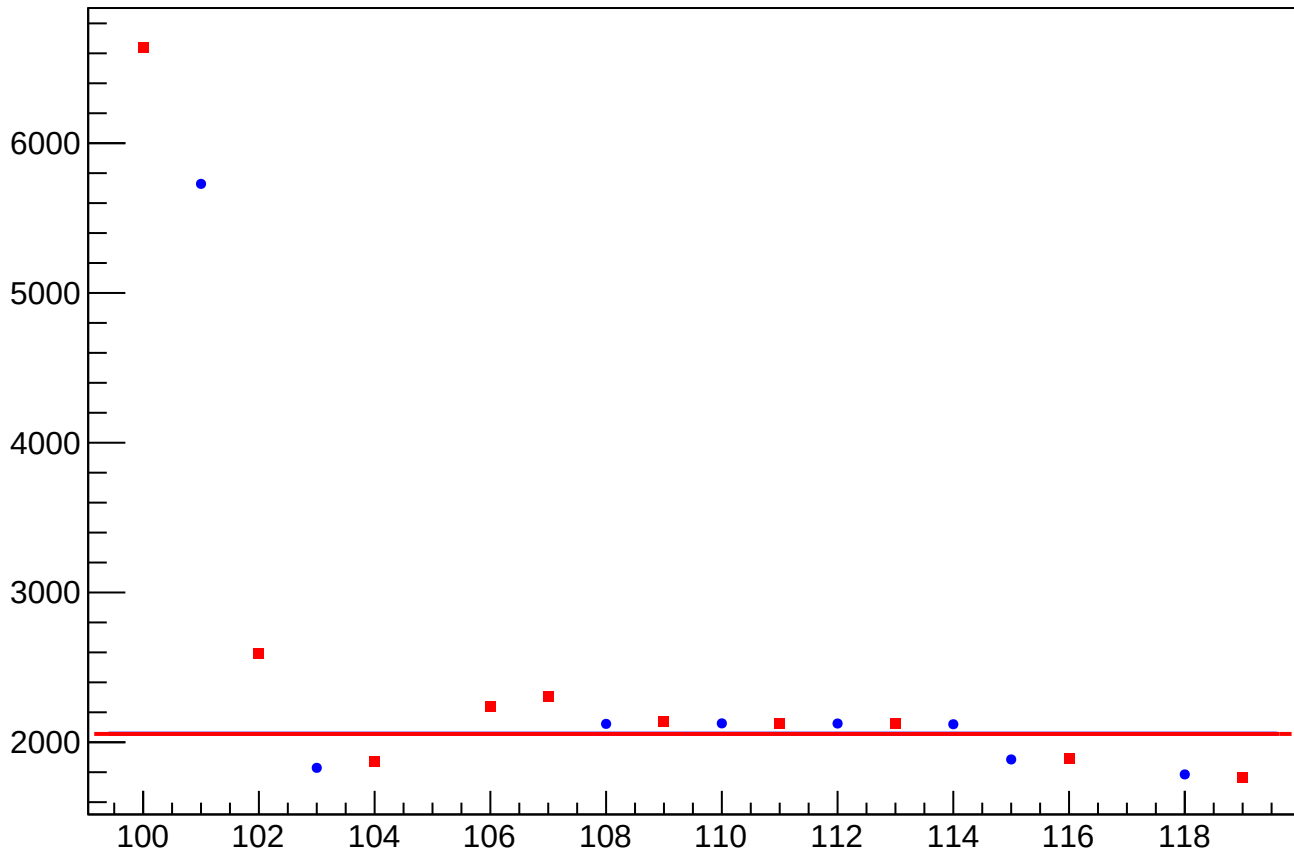
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 206.268+/-782.114  $\chi^2/\text{NDF}$ : 15.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

cor\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 2057.205+/-0.835  $\chi^2/\text{NDF}$ : 587552.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2055.599+/-0.738  $\chi^2/\text{NDF}$ : 171198.2/9

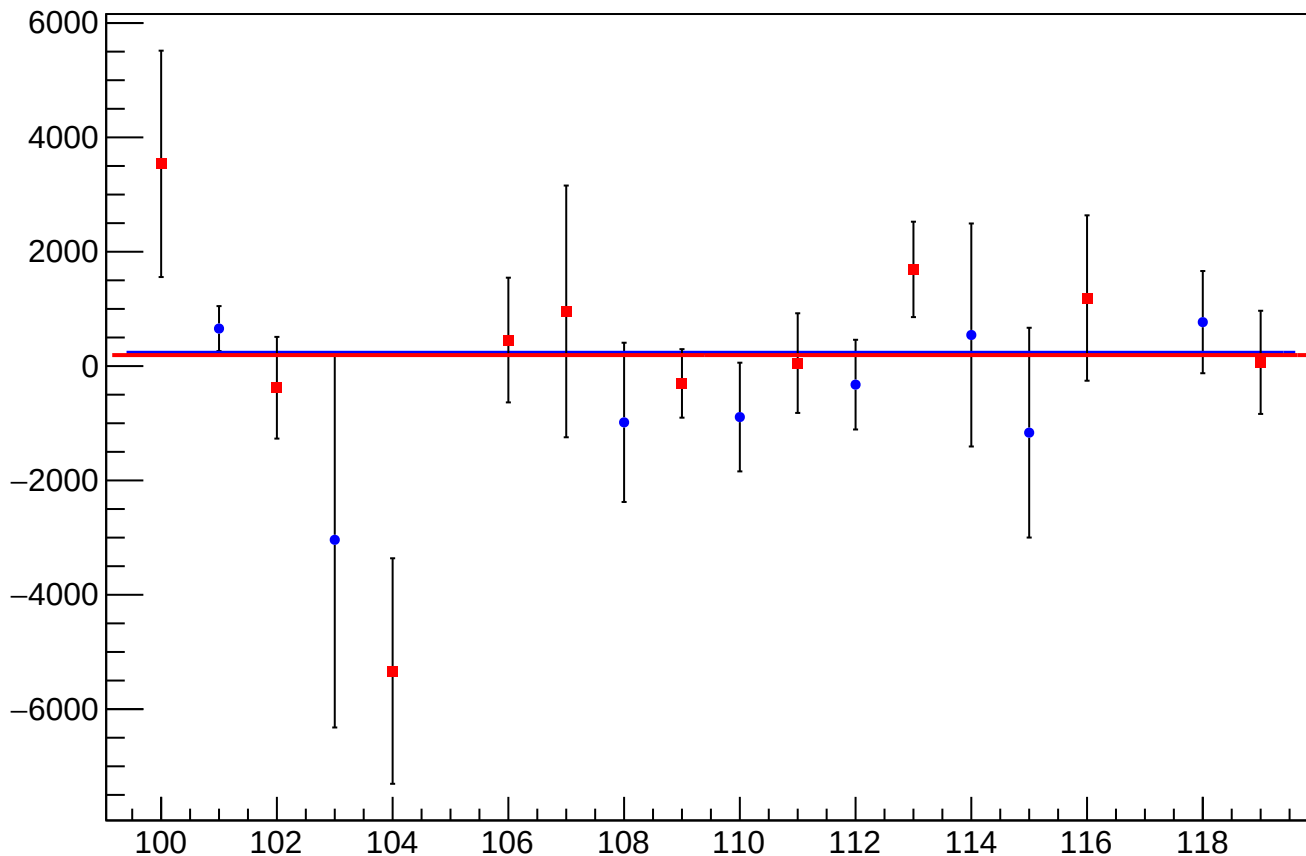
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2056.303+/-0.553  $\chi^2/\text{NDF}$ : 758752.3/17

- 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: 232.637+/-293.290  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 192.318+/-315.170  $\chi^2/\text{NDF}$ : 15.7/9

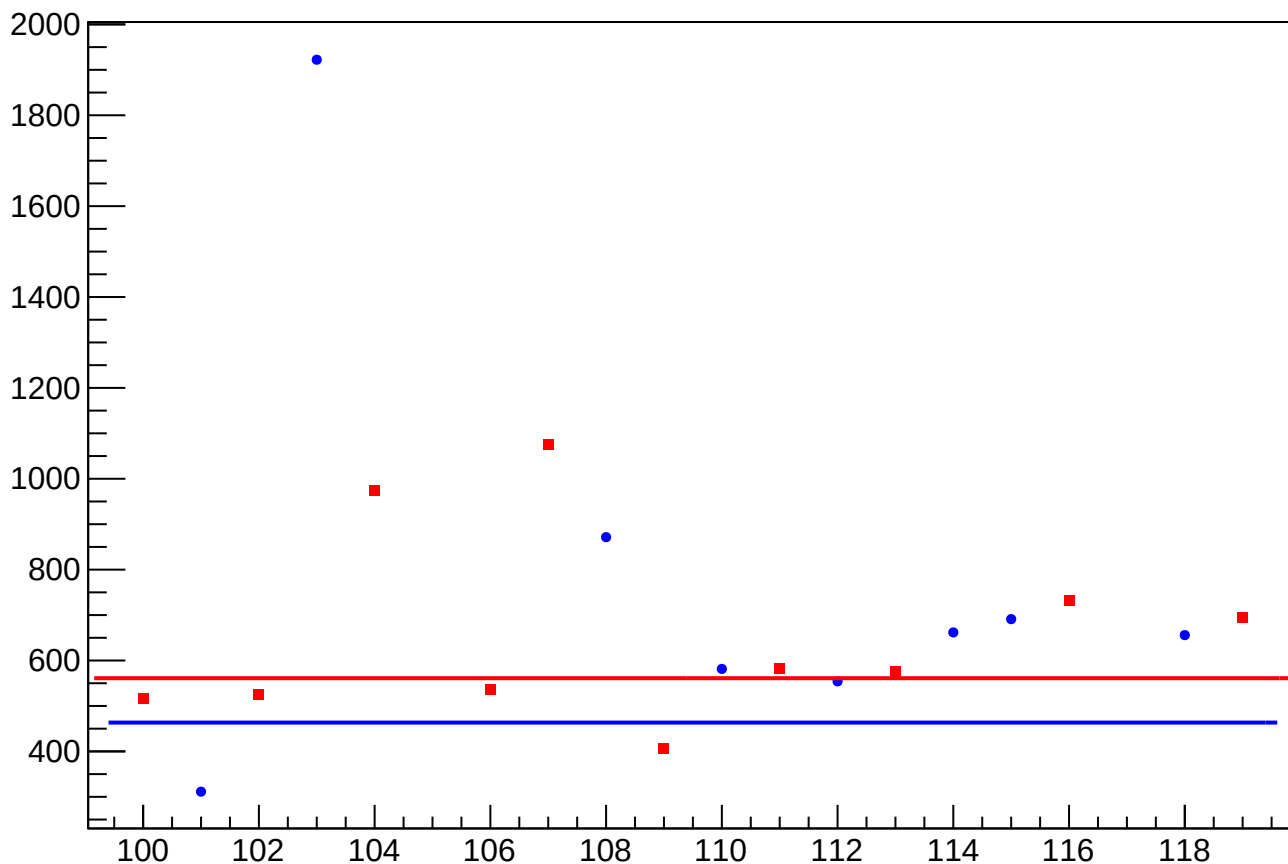
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 213.926+/-214.706  $\chi^2/\text{NDF}$ : 21.5/17

- 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: 463.433+/-0.207  $\chi^2/\text{NDF}$ : 1068009.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 561.084+/-0.223  $\chi^2/\text{NDF}$ : 407300.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

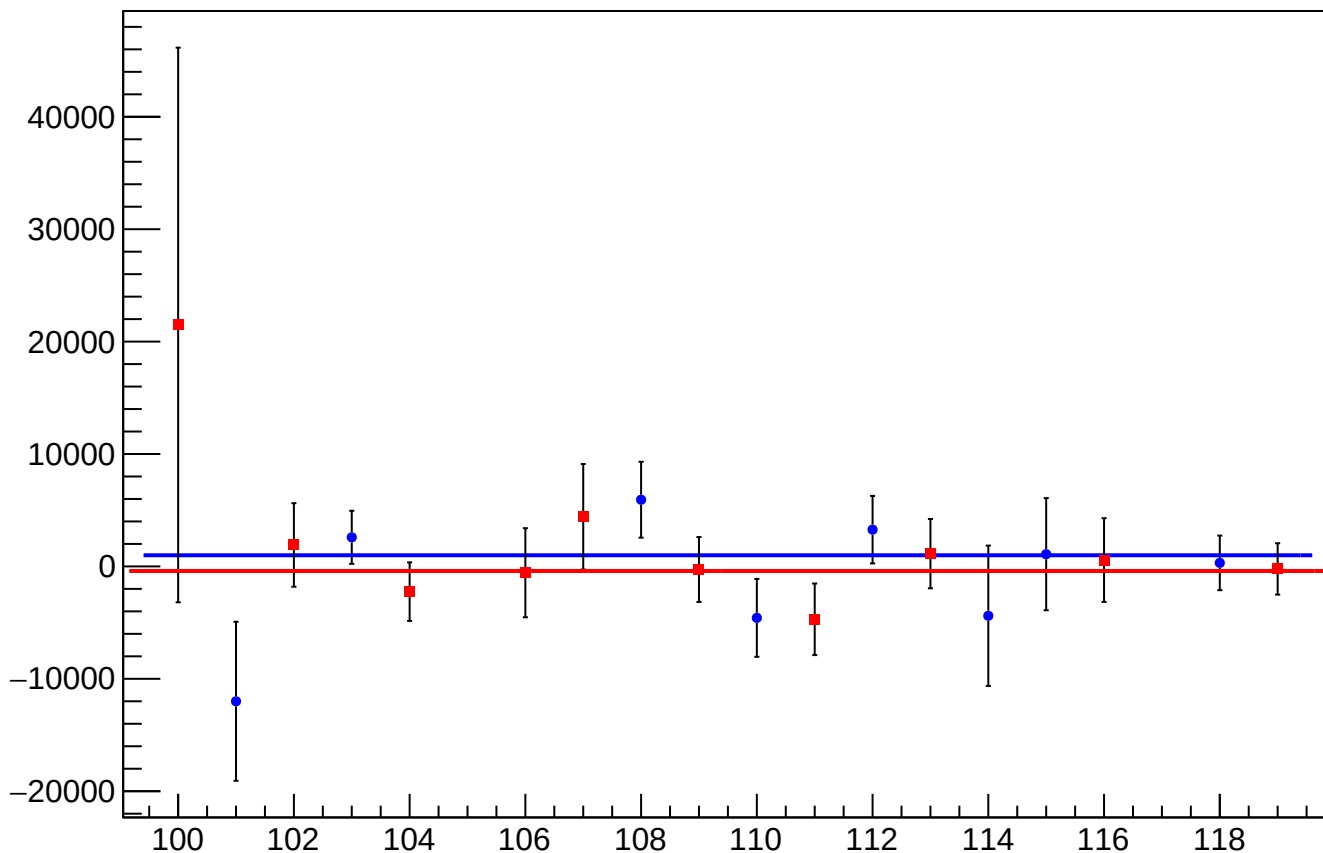
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 508.751+/-0.152  $\chi^2/\text{NDF}$ : 1578202.5/17

- 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: 991.505 $\pm$ 1181.112  $\chi^2$ /NDF: 10.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -406.928 $\pm$ 1043.735  $\chi^2$ /NDF: 4.9/9

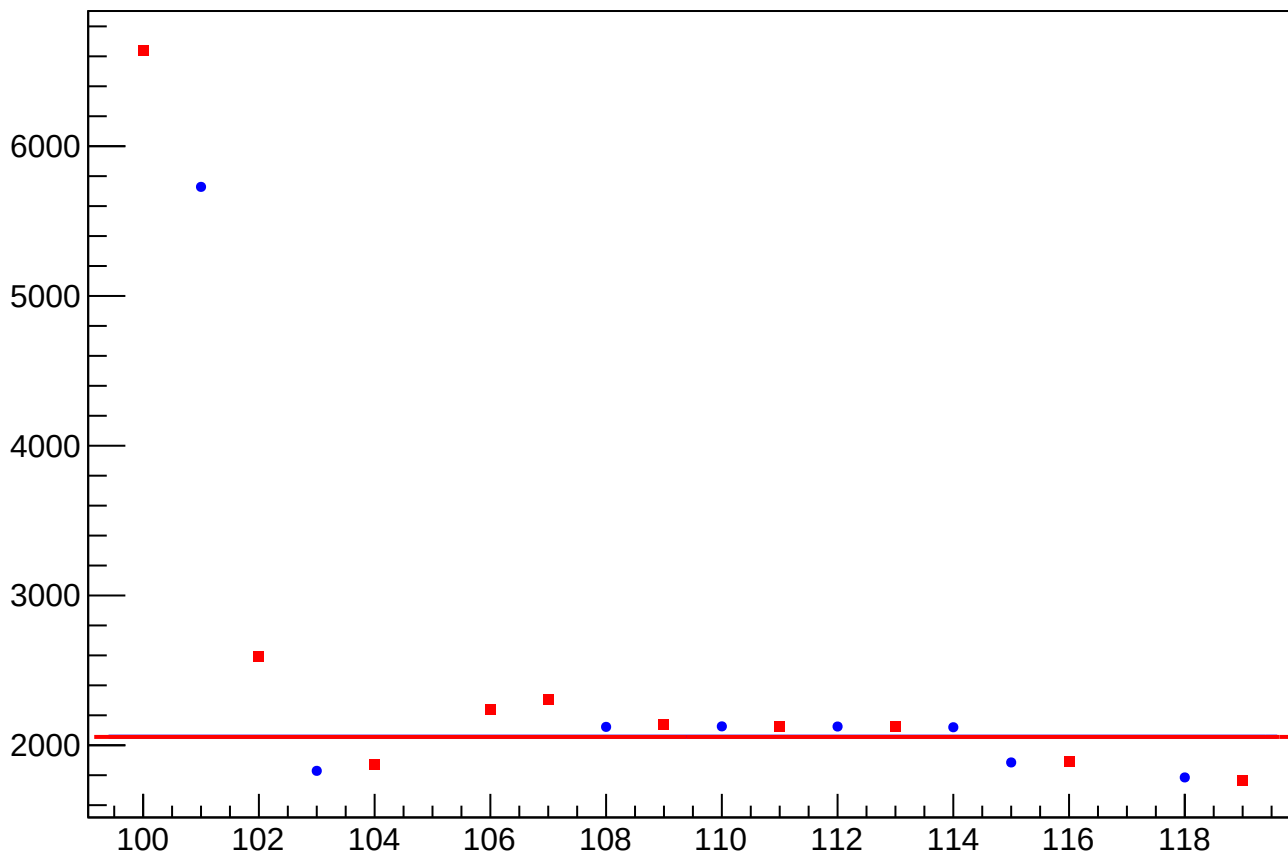
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 206.268 $\pm$ 782.114  $\chi^2$ /NDF: 15.6/17

- 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: 2057.205+/-0.835  $\chi^2/\text{NDF}$ : 587552.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2055.599+/-0.738  $\chi^2/\text{NDF}$ : 171198.2/9

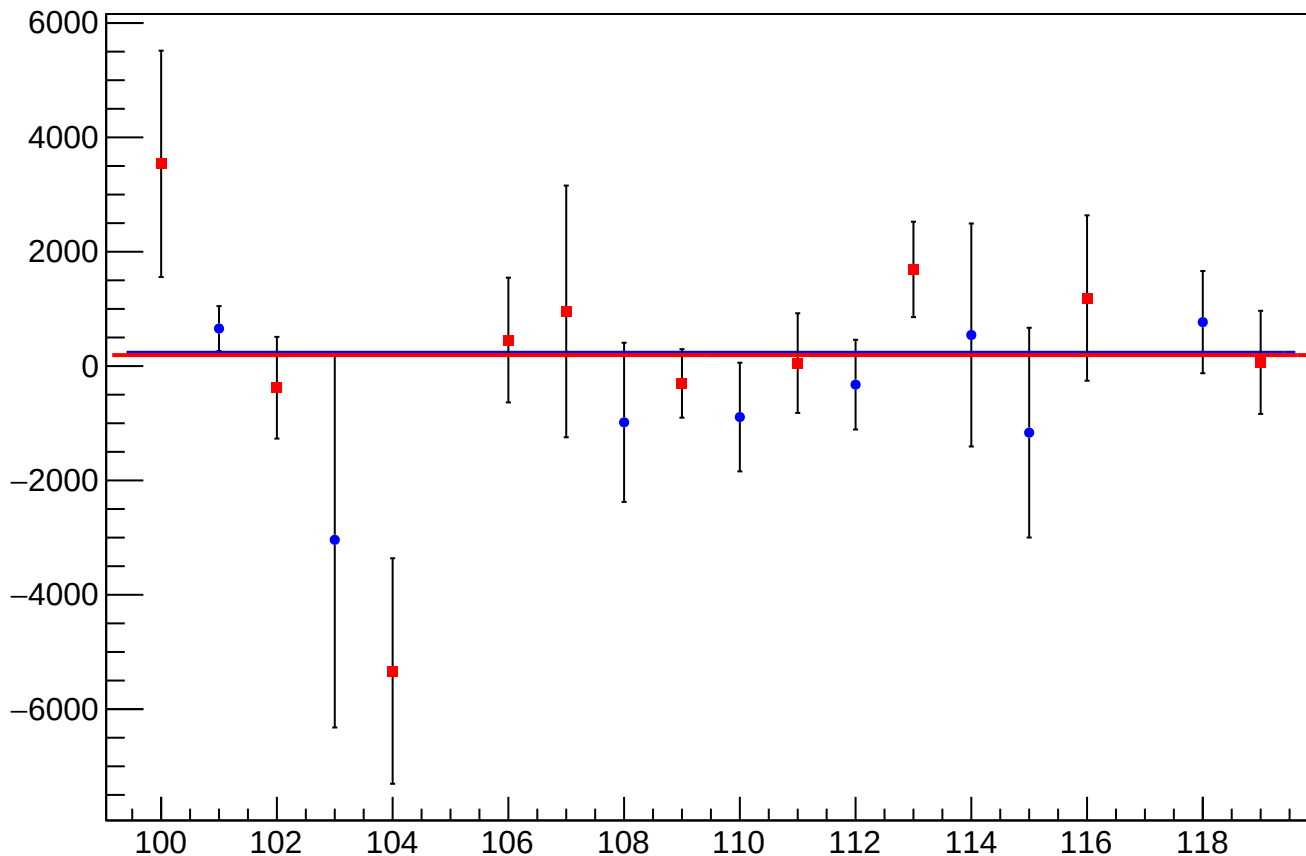
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2056.303+/-0.553  $\chi^2/\text{NDF}$ : 758752.3/17

- 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: 232.637+/-293.290  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 192.318+/-315.170  $\chi^2/\text{NDF}$ : 15.7/9

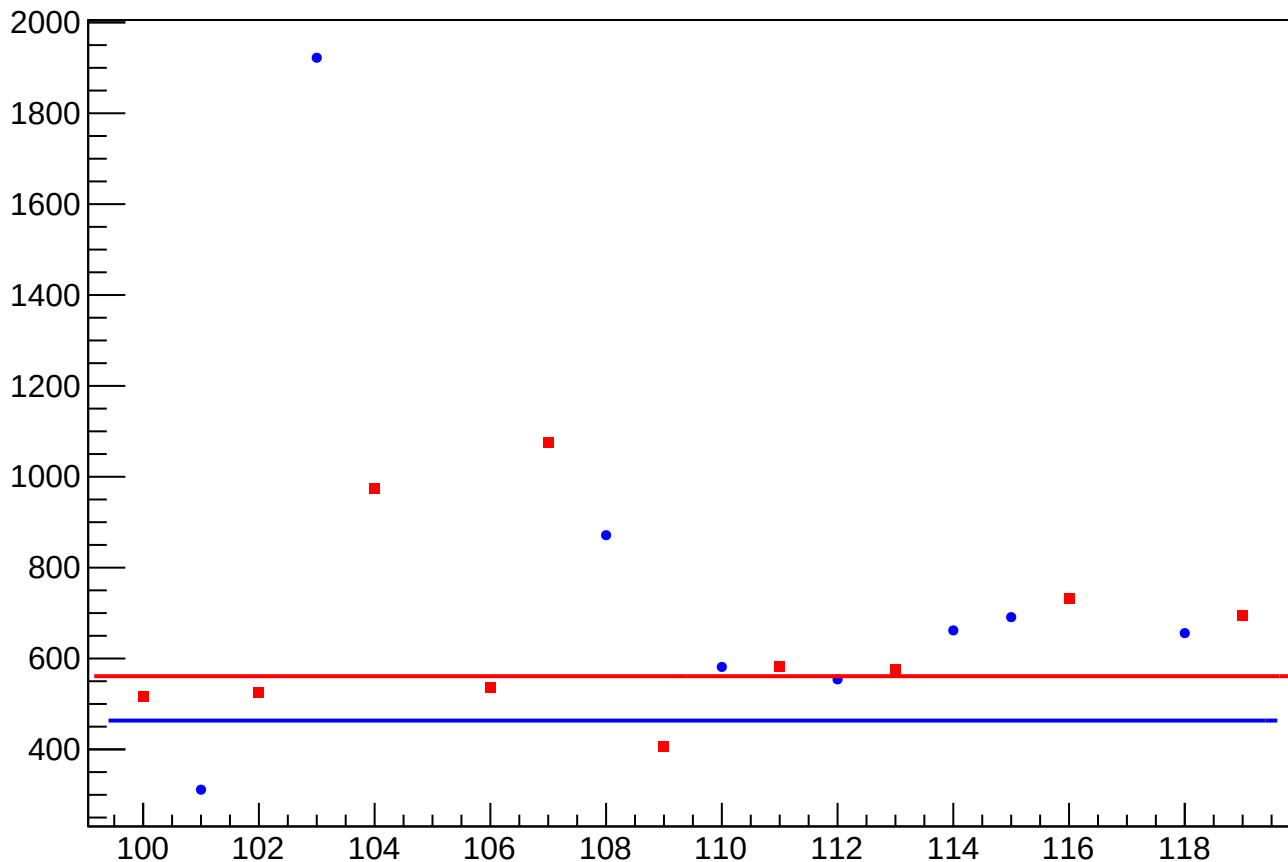
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 213.926+/-214.706  $\chi^2/\text{NDF}$ : 21.5/17

- 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: 463.433+/-0.207  $\chi^2/\text{NDF}$ : 1068009.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 561.084+/-0.223  $\chi^2/\text{NDF}$ : 407300.6/9

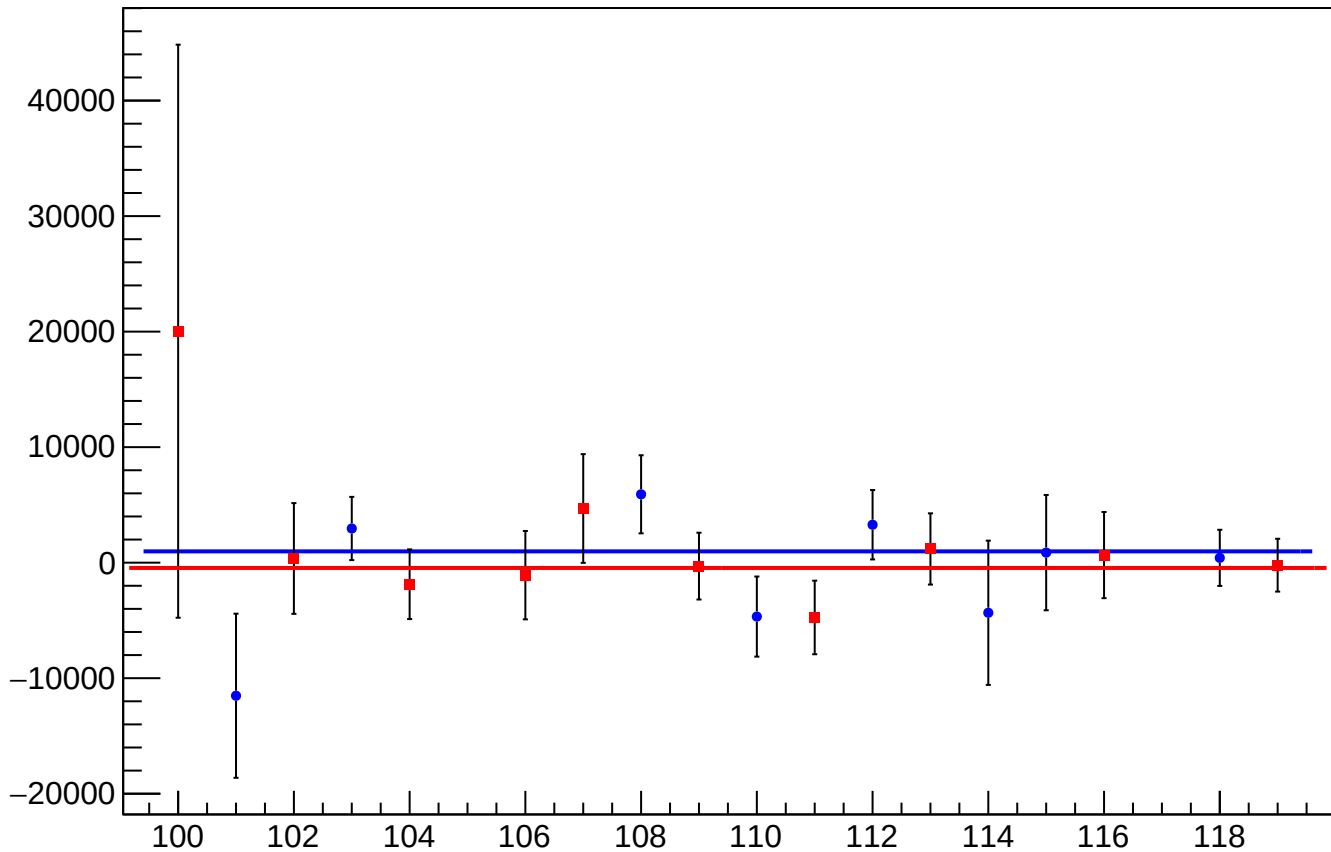
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 508.751+/-0.152  $\chi^2/\text{NDF}$ : 1578202.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 977.696+/-1221.476  $\chi^2/\text{NDF}$ : 9.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -458.016+/-1081.341  $\chi^2/\text{NDF}$ : 4.4/9

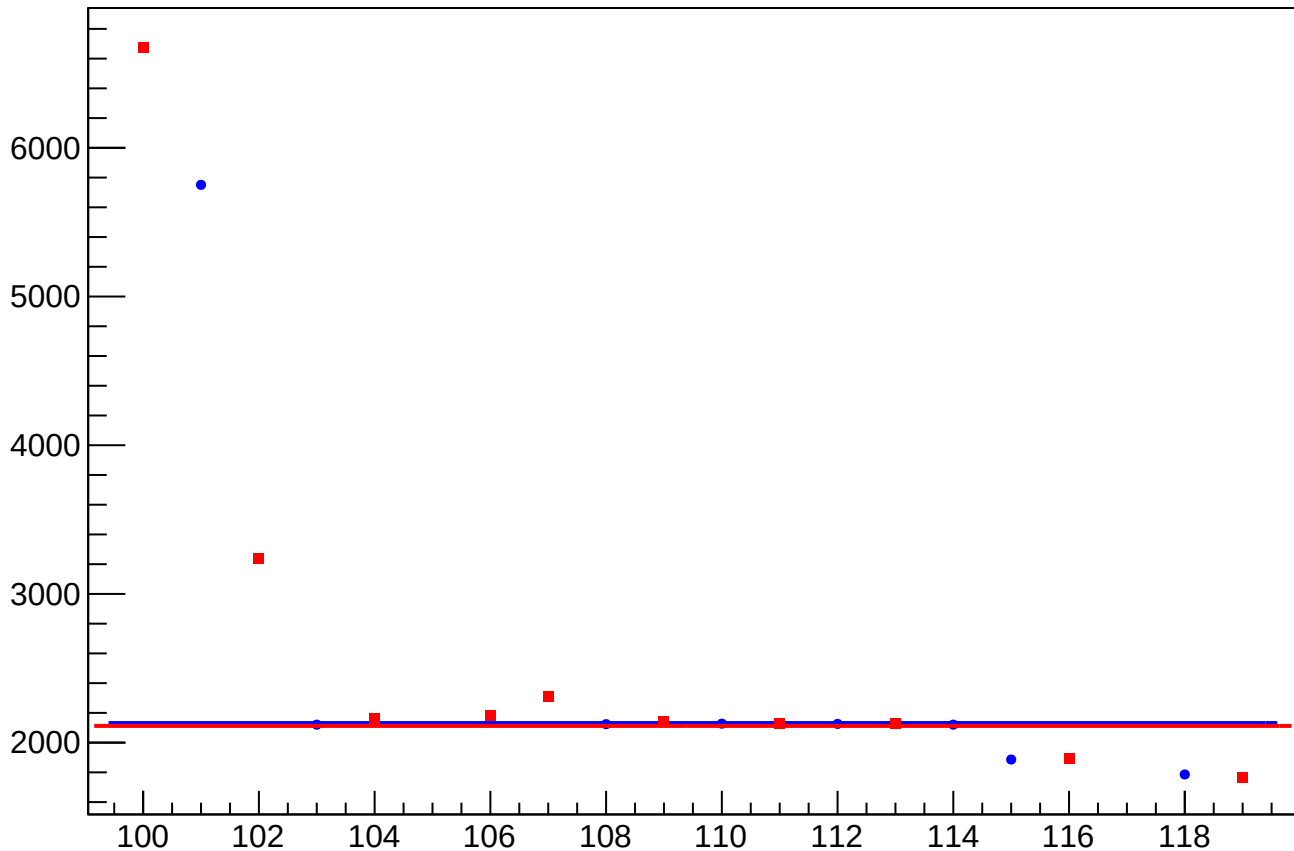
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 172.795+/-809.656  $\chi^2/\text{NDF}$ : 14.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 2131.521+/-0.864  $\chi^2/\text{NDF}$ : 564739.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2112.400+/-0.765  $\chi^2/\text{NDF}$ : 235804.4/9

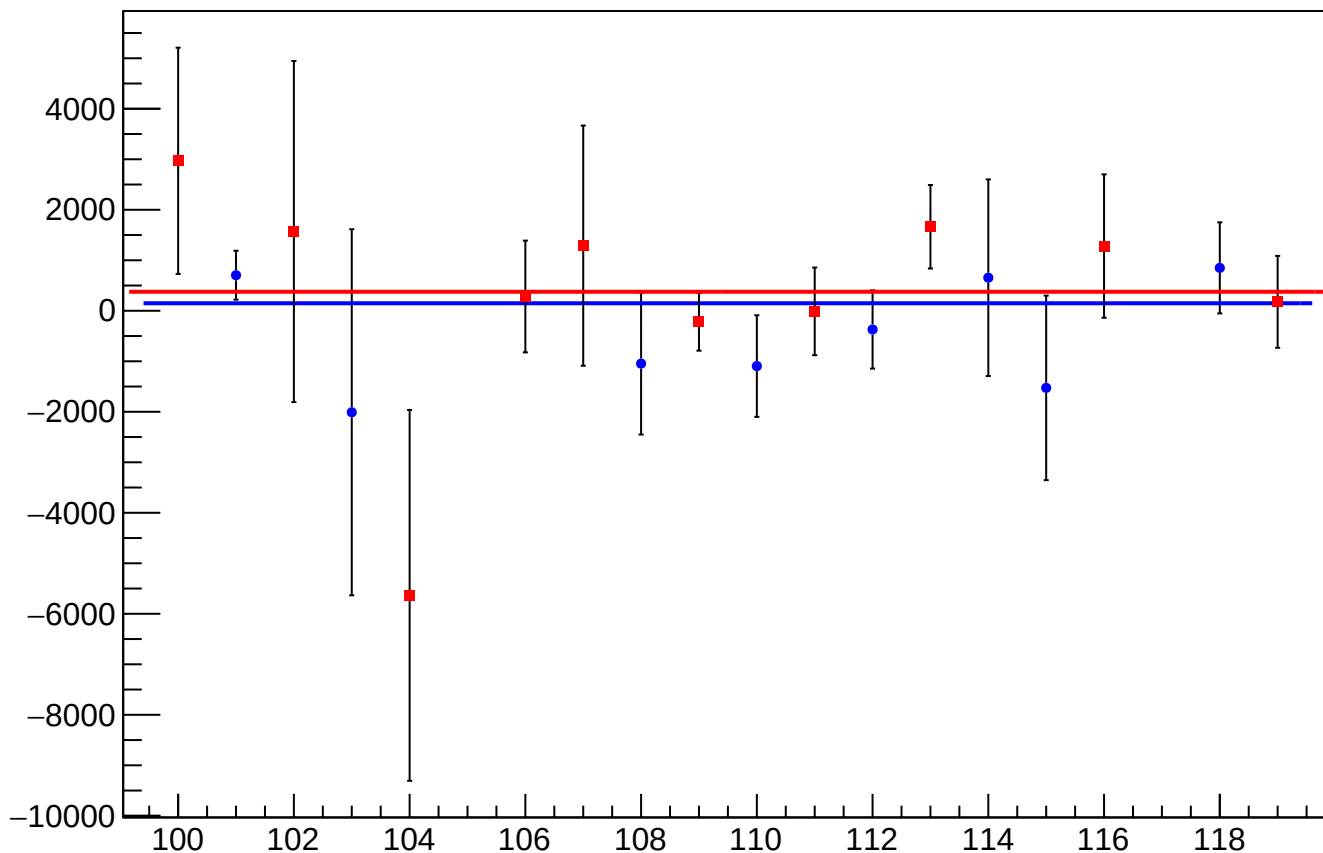
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2120.801+/-0.573  $\chi^2/\text{NDF}$ : 800818.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_correction\_mean vs Slug



Right In: 148.740 $\pm$ 328.021  $\chi^2$ /NDF: 5.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 376.547 $\pm$ 334.649  $\chi^2$ /NDF: 8.5/9

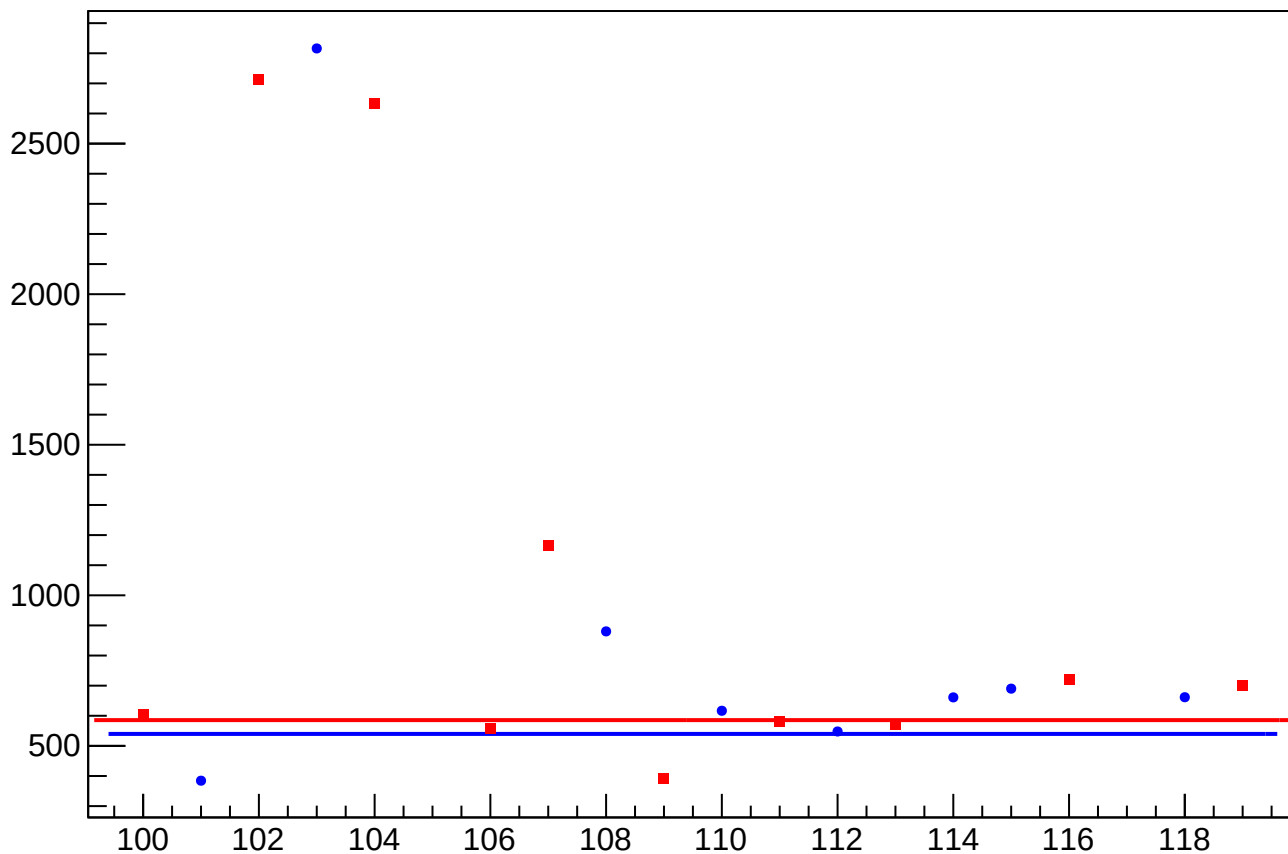
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 260.365 $\pm$ 234.254  $\chi^2$ /NDF: 14.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_correction\_rms vs Slug



Right In: 539.703 $\pm$ 0.232  $\chi^2$ /NDF: 1182027.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 585.547 $\pm$ 0.237  $\chi^2$ /NDF: 1819619.5/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

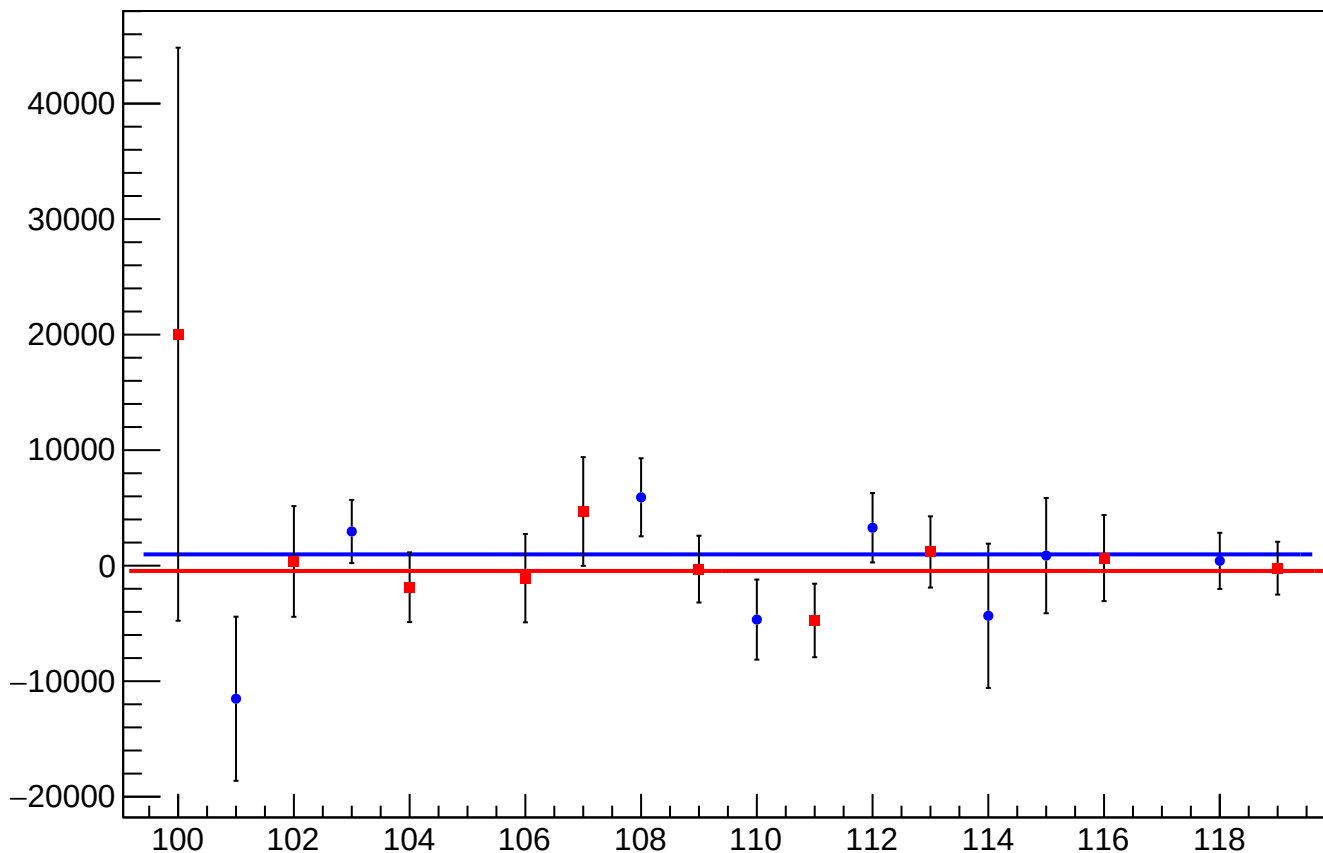
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 562.166 $\pm$ 0.166  $\chi^2$ /NDF: 3020789.5/17

- 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: 977.699+/-1221.475  $\chi^2/\text{NDF}$ : 9.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -458.019+/-1081.341  $\chi^2/\text{NDF}$ : 4.4/9

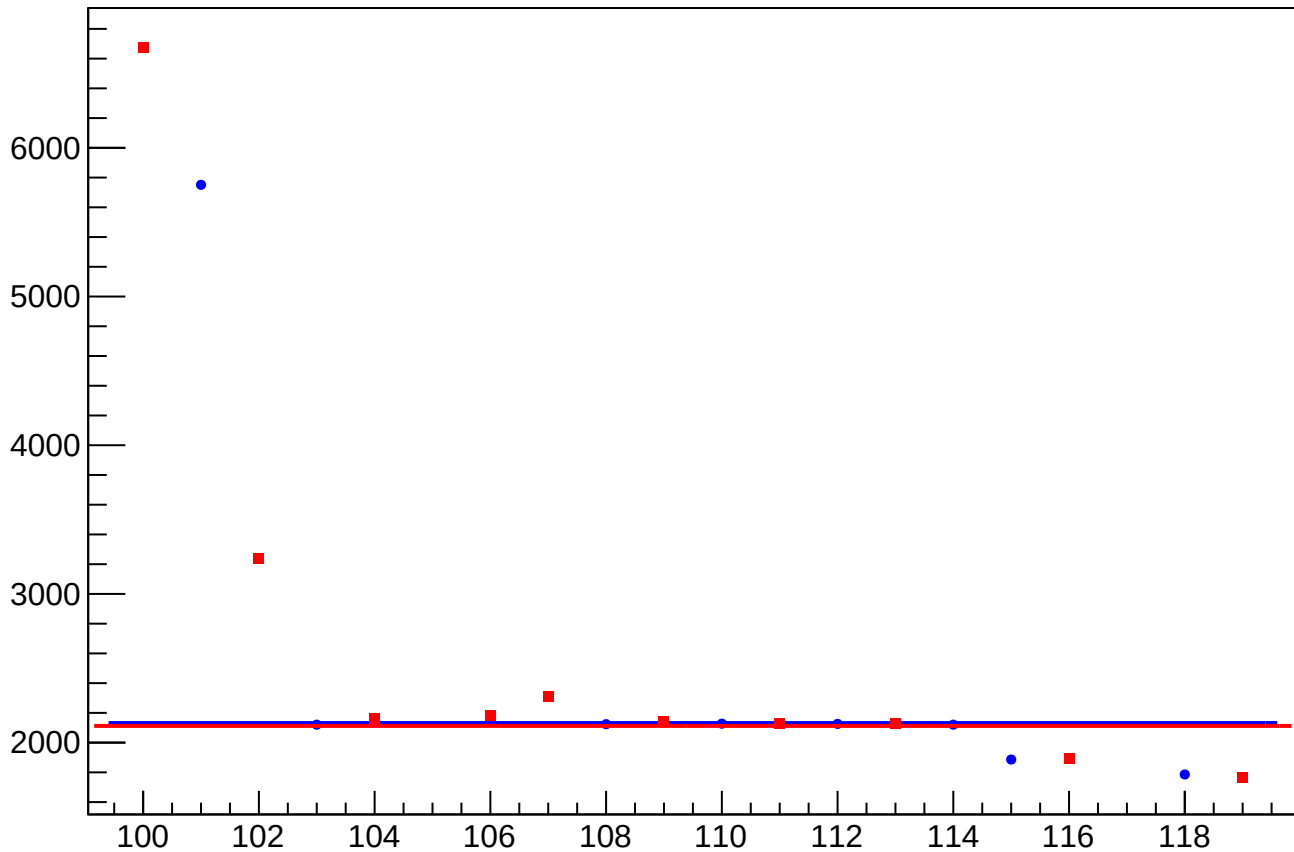
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 172.794+/-809.656  $\chi^2/\text{NDF}$ : 14.9/17

- 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: 2131.520+/-0.864  $\chi^2/\text{NDF}$ : 564739.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2112.400+/-0.765  $\chi^2/\text{NDF}$ : 235803.9/9

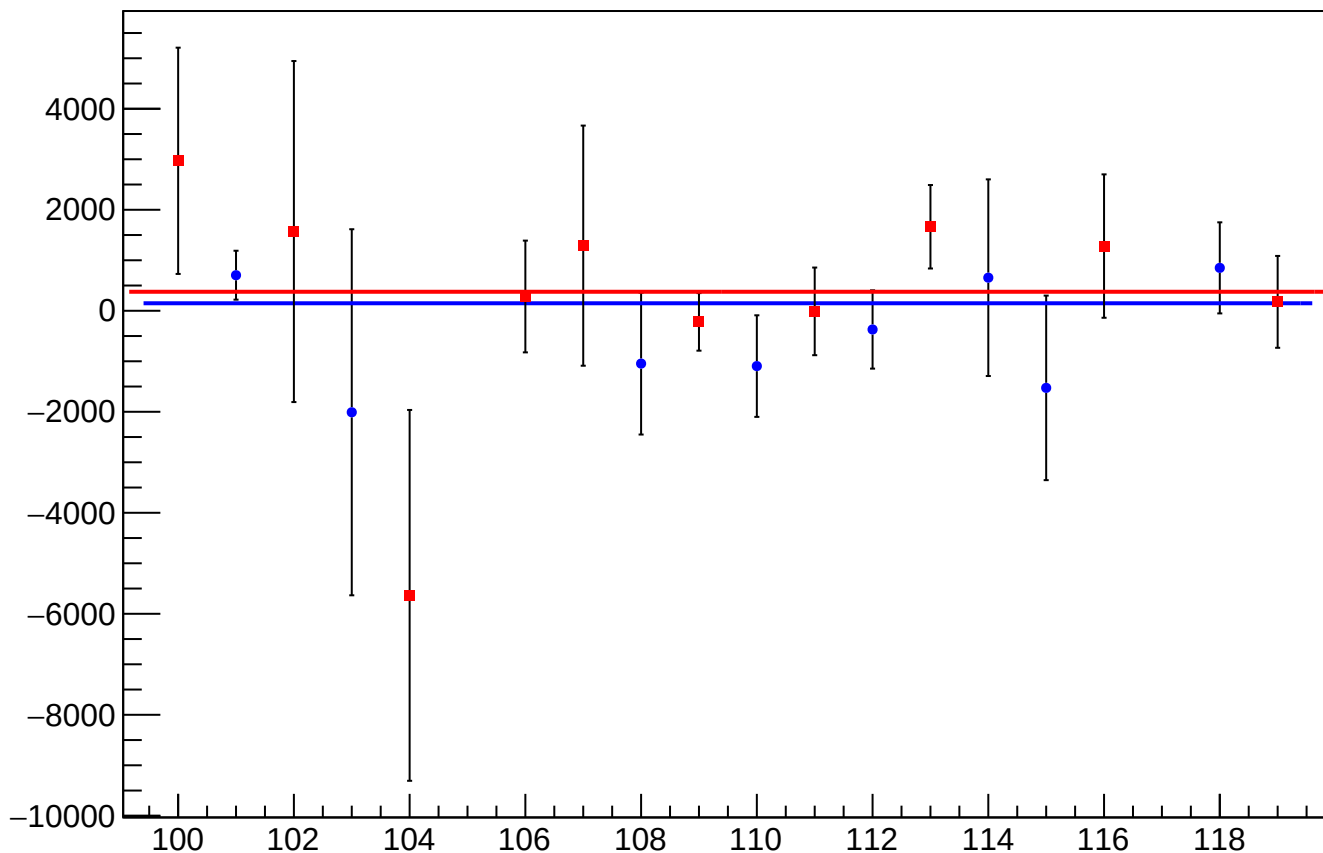
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2120.800+/-0.573  $\chi^2/\text{NDF}$ : 800817.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 148.738 $\pm$ 328.020  $\chi^2$ /NDF: 5.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 376.544 $\pm$ 334.647  $\chi^2$ /NDF: 8.5/9

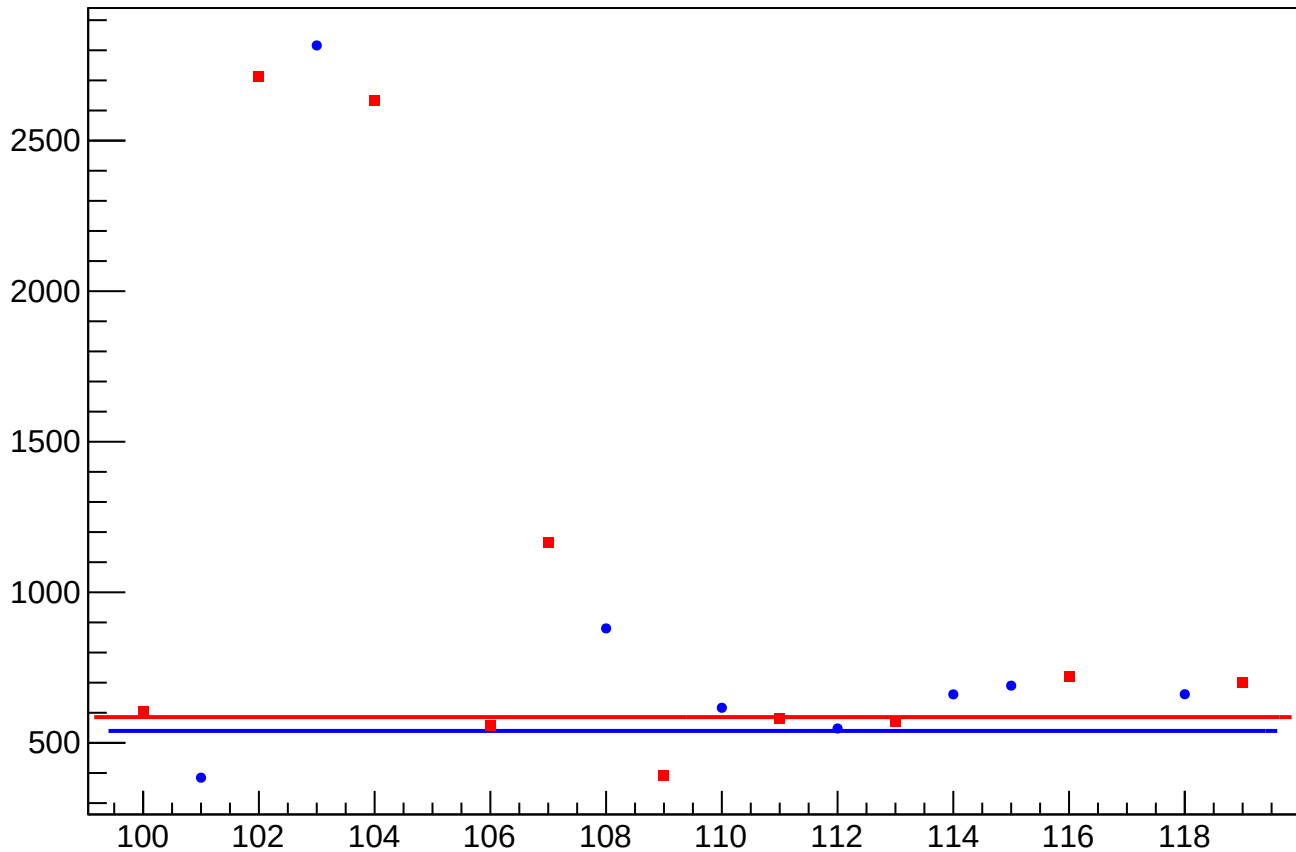
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 260.363 $\pm$ 234.253  $\chi^2$ /NDF: 14.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 539.701+/-0.232  $\chi^2/\text{NDF}$ : 1182021.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 585.543+/-0.237  $\chi^2/\text{NDF}$ : 1819635.6/9

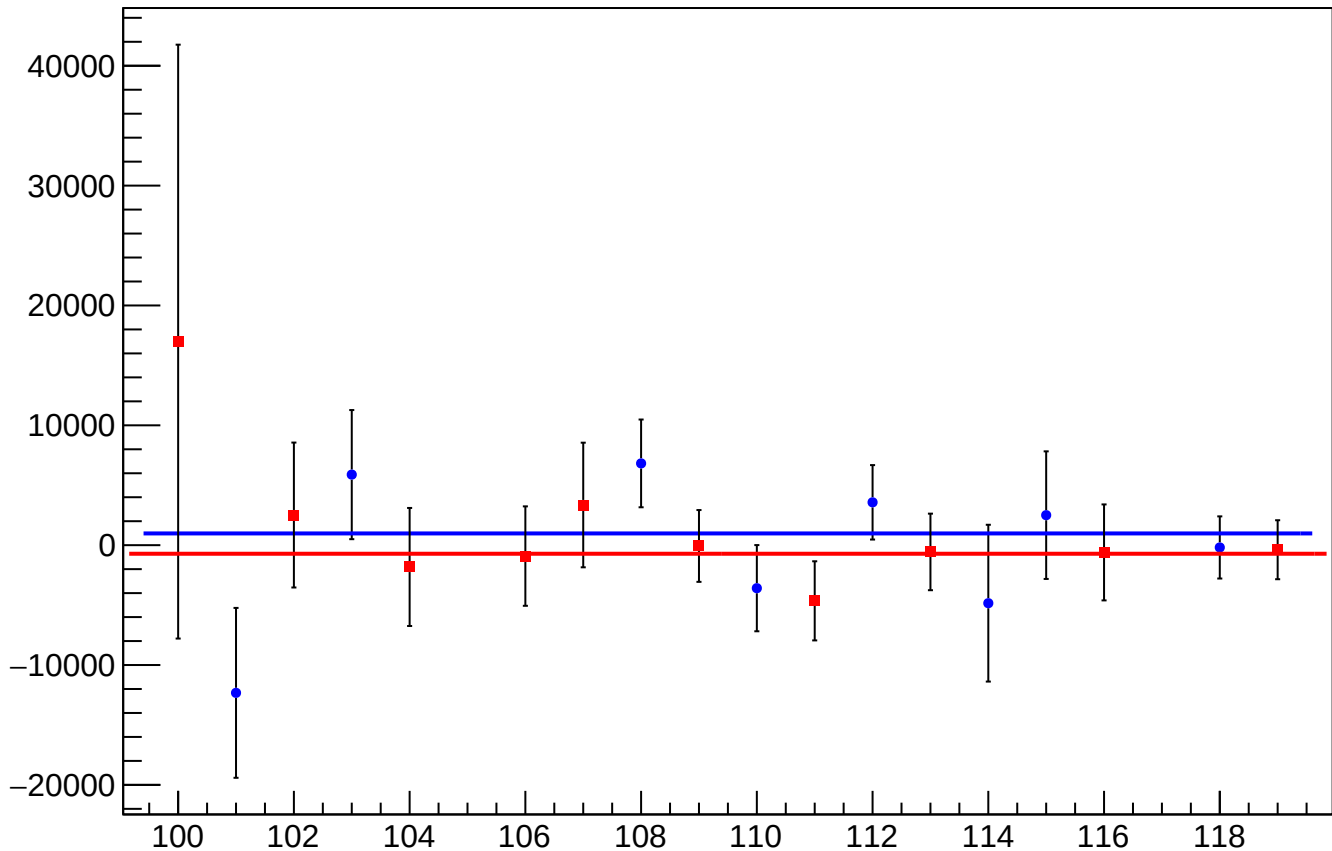
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 562.164+/-0.166  $\chi^2/\text{NDF}$ : 3020796.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 979.643+/-1390.194  $\chi^2/\text{NDF}$ : 10.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -715.414+/-1200.317  $\chi^2/\text{NDF}$ : 2.9/9

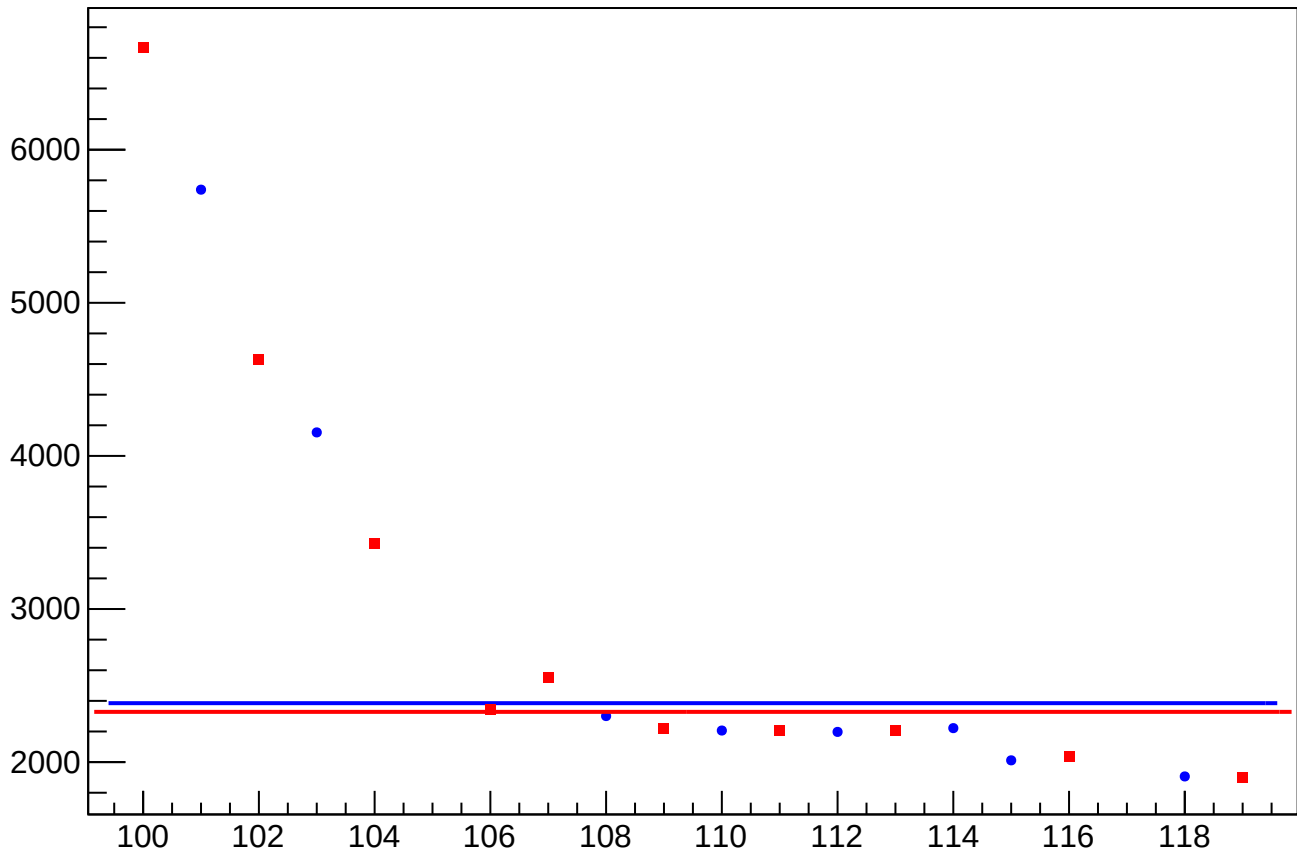
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8.536+/-908.526  $\chi^2/\text{NDF}$ : 14.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 2384.998 $\pm$ 0.983  $\chi^2$ /NDF: 756008.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2328.220 $\pm$ 0.849  $\chi^2$ /NDF: 534392.0/9

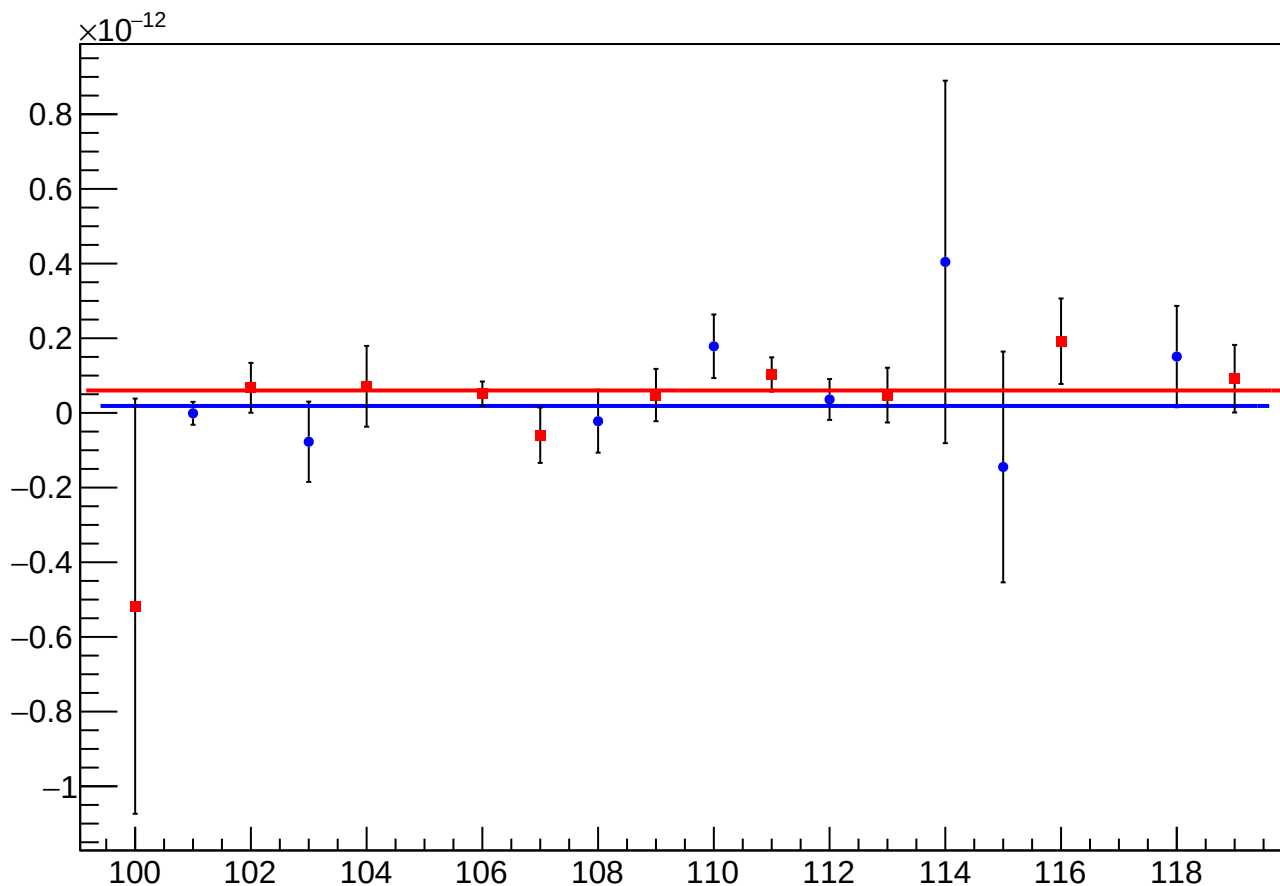
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2352.469 $\pm$ 0.642  $\chi^2$ /NDF: 1292311.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.2/9

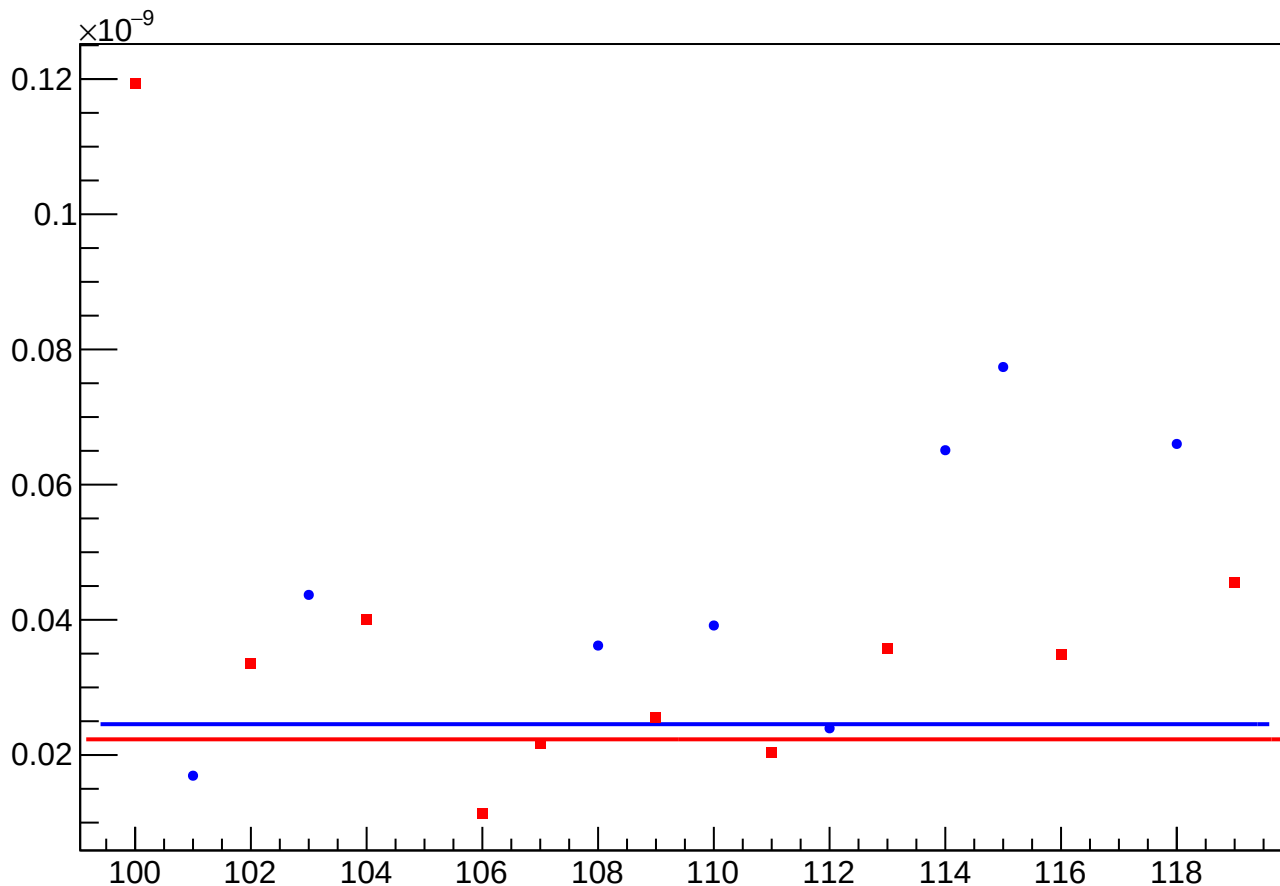
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 542664.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 626246.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

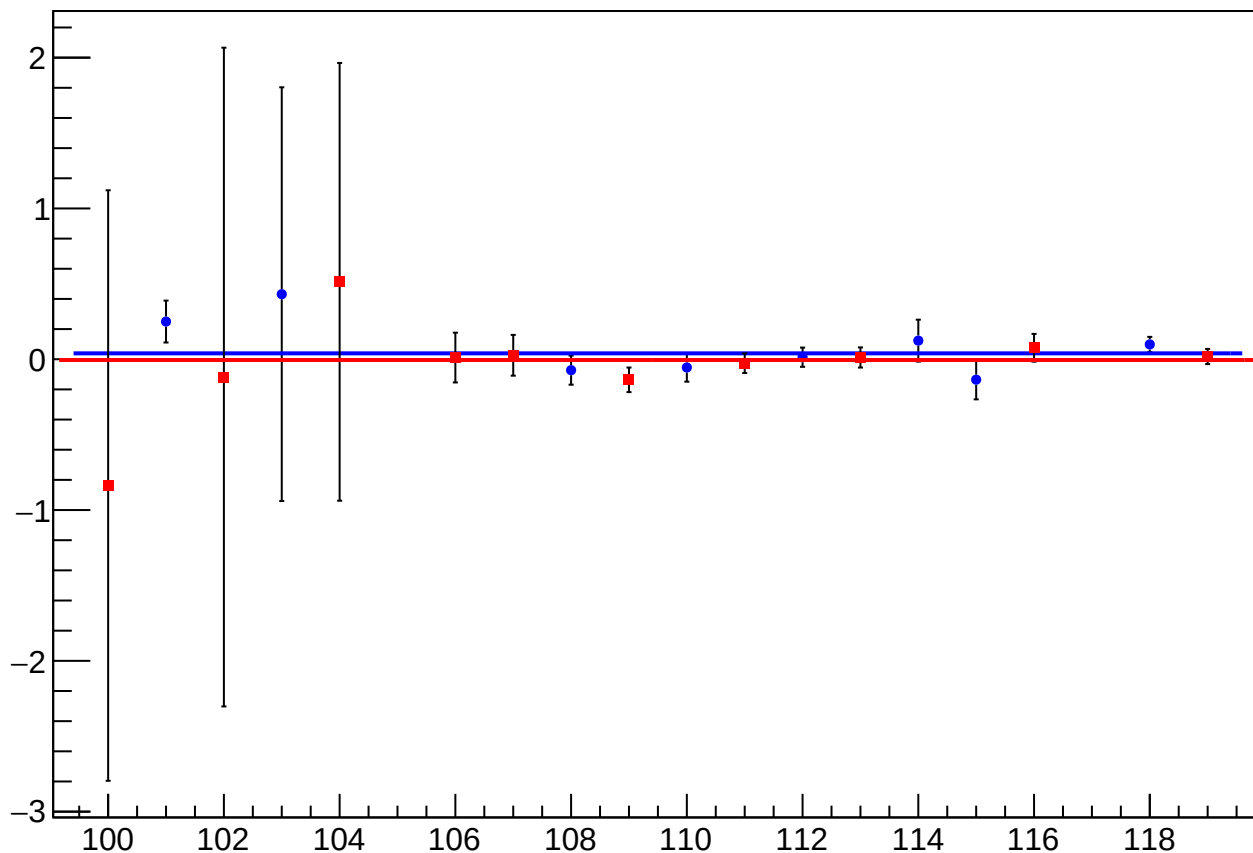
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1179495.3/17

- 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: 0.039+/-0.031  $\chi^2/\text{NDF}$ : 8.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.005+/-0.029  $\chi^2/\text{NDF}$ : 4.1/9

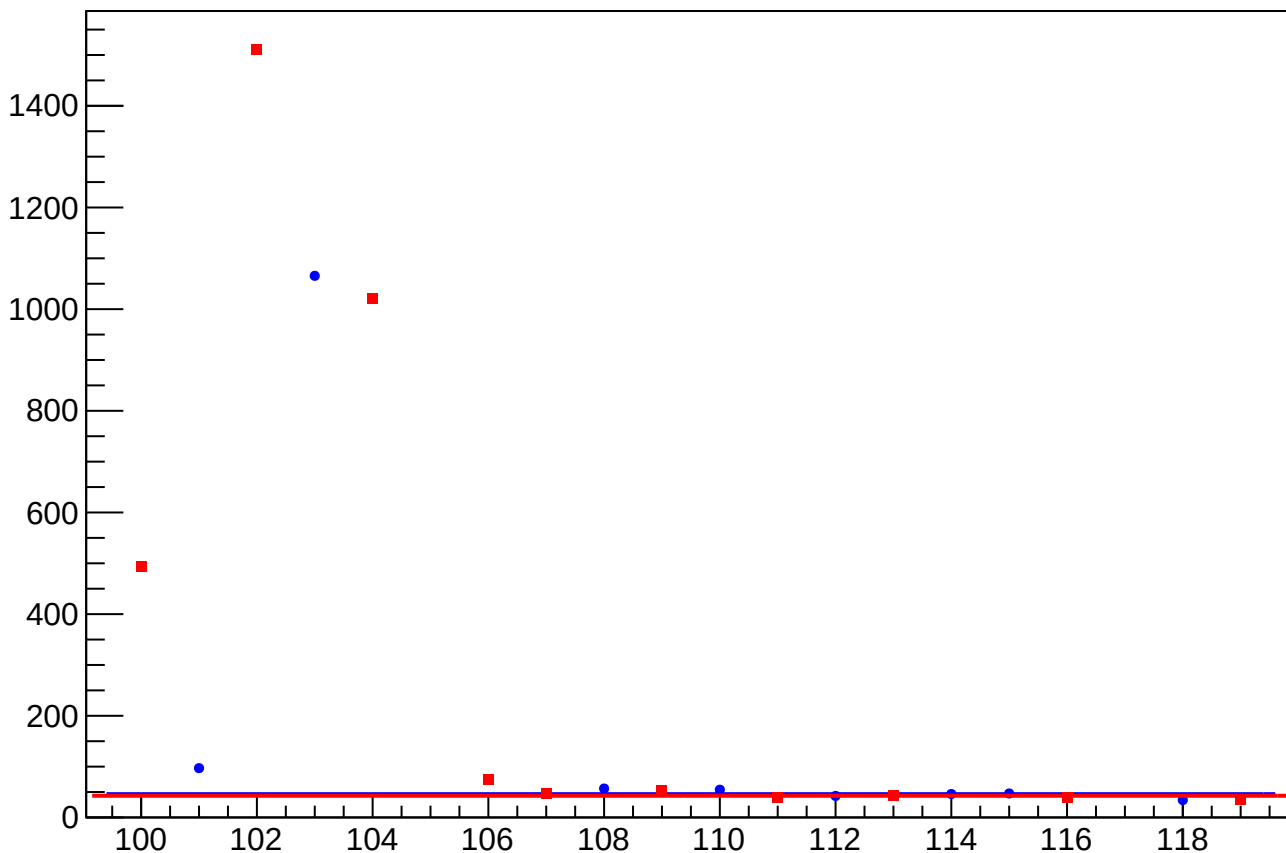
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.021  $\chi^2/\text{NDF}$ : 13.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 45.810+/-0.022  $\chi^2/\text{NDF}$ : 1533479.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 42.701+/-0.020  $\chi^2/\text{NDF}$ : 2079381.5/9

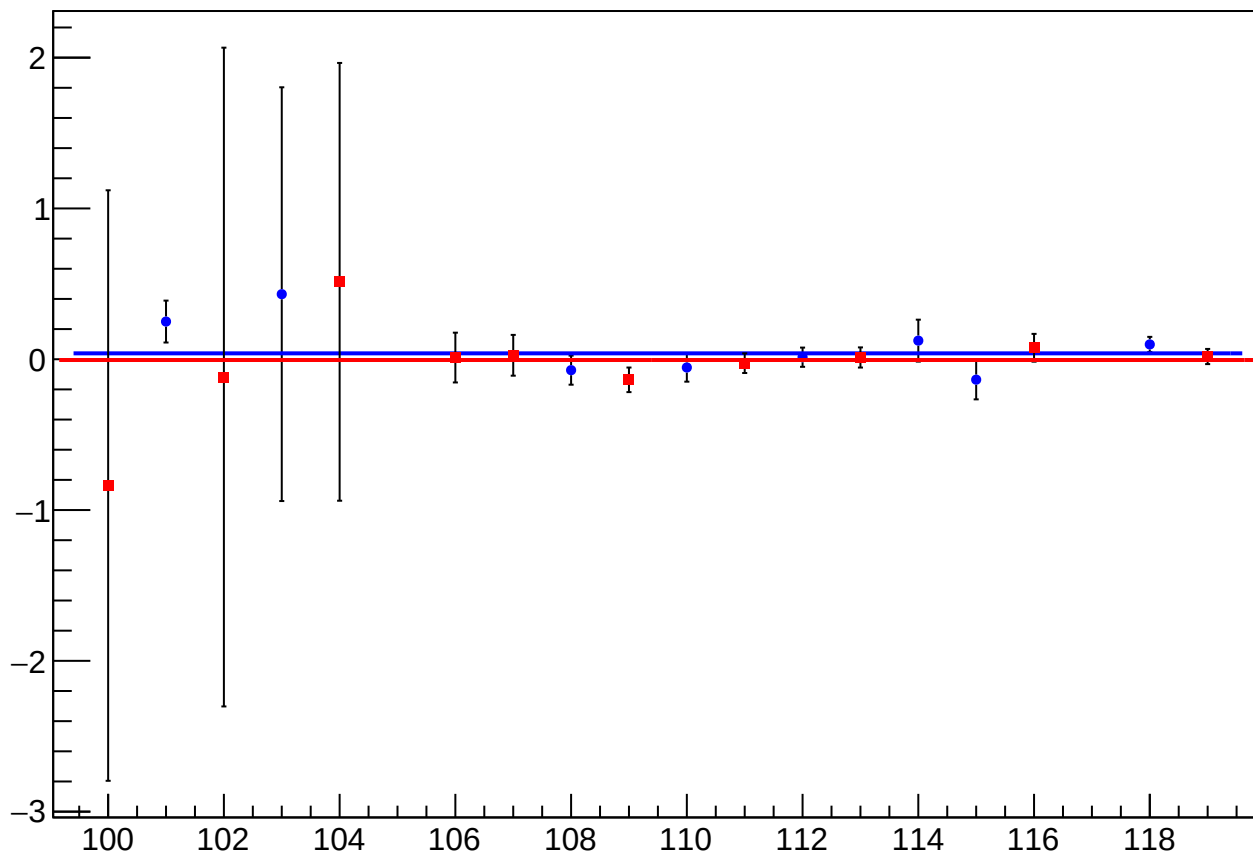
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 44.126+/-0.015  $\chi^2/\text{NDF}$ : 3623625.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.039 $\pm$ 0.031  $\chi^2$ /NDF: 8.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.005 $\pm$ 0.029  $\chi^2$ /NDF: 4.1/9

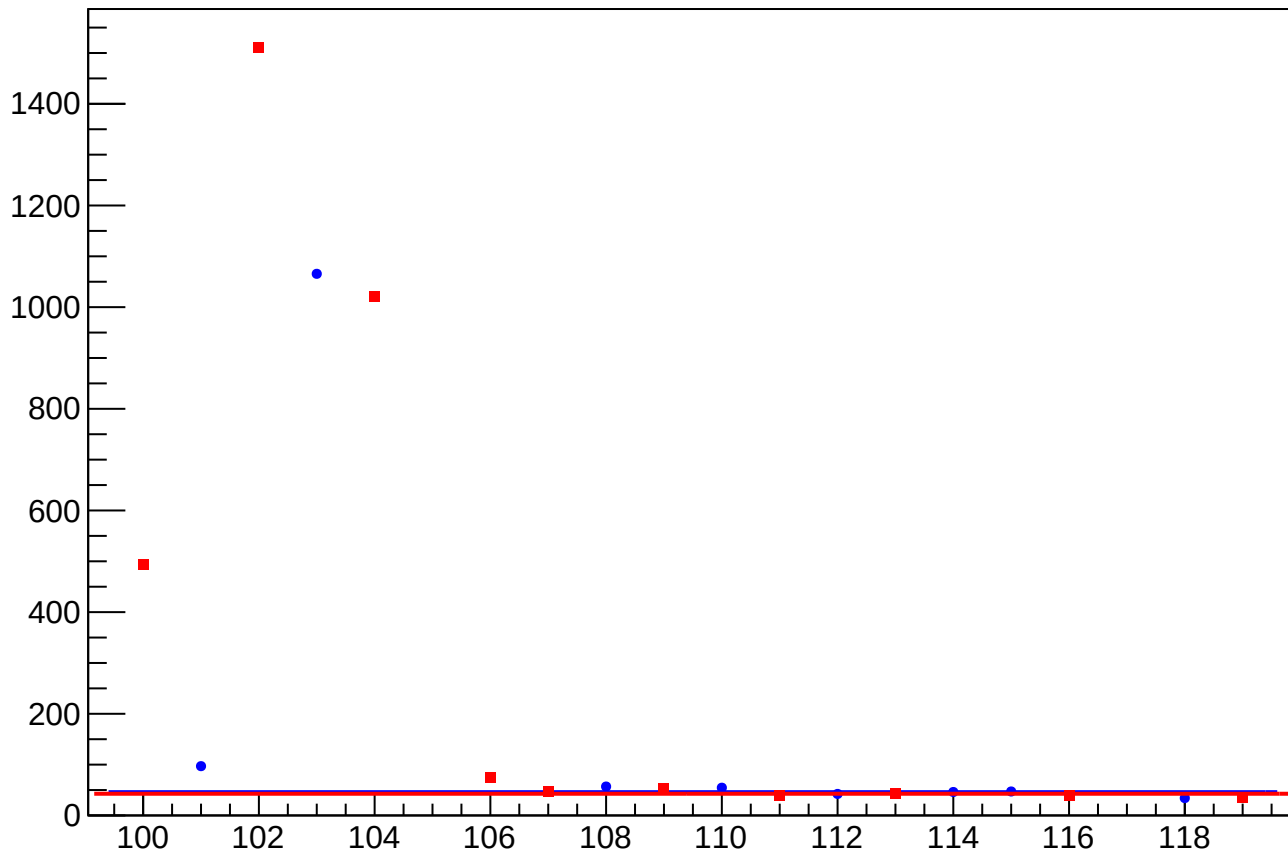
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.021  $\chi^2$ /NDF: 13.6/17

- 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: 45.810+/-0.022  $\chi^2/\text{NDF}$ : 1533479.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 42.701+/-0.020  $\chi^2/\text{NDF}$ : 2079381.5/9

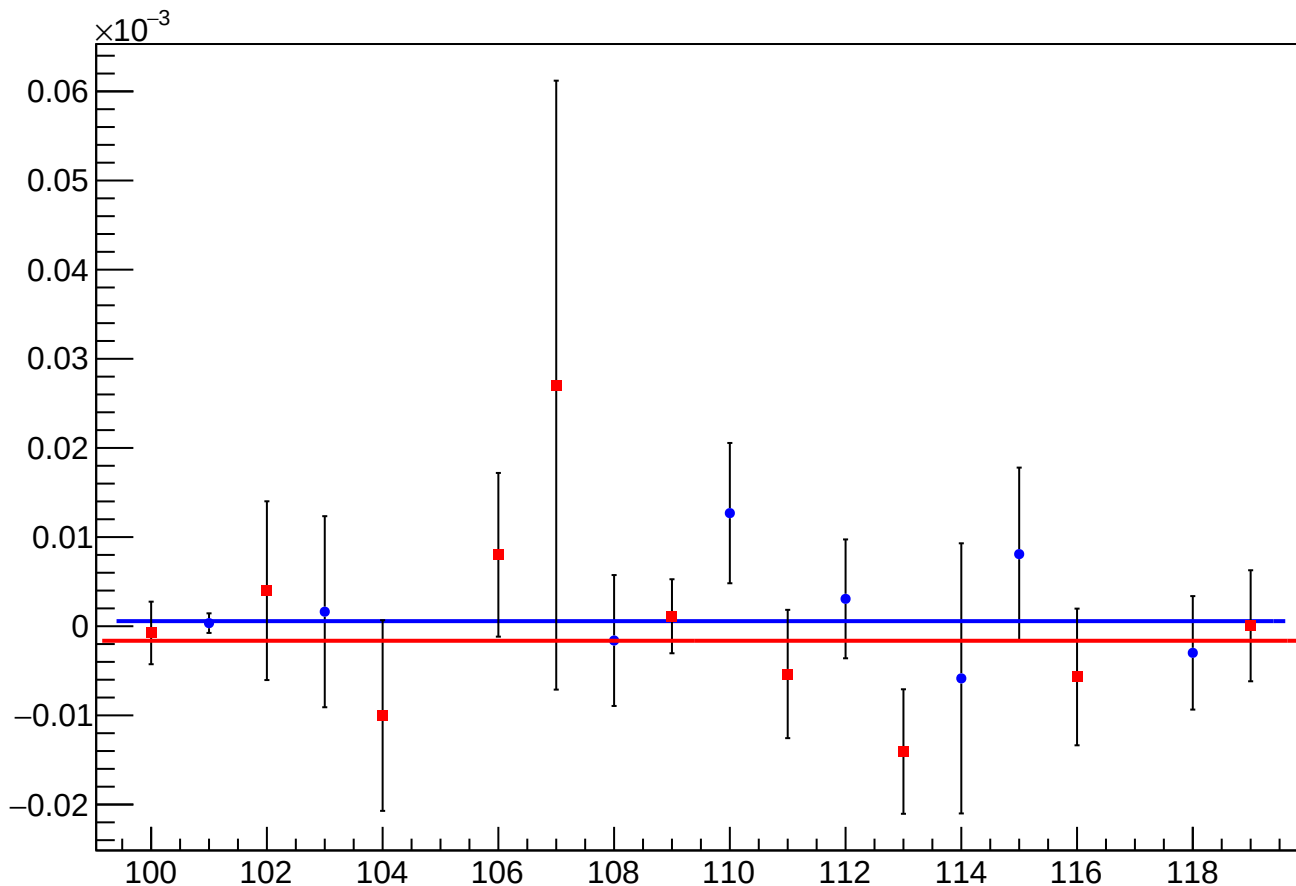
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 44.126+/-0.015  $\chi^2/\text{NDF}$ : 3623625.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 3.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.0/9

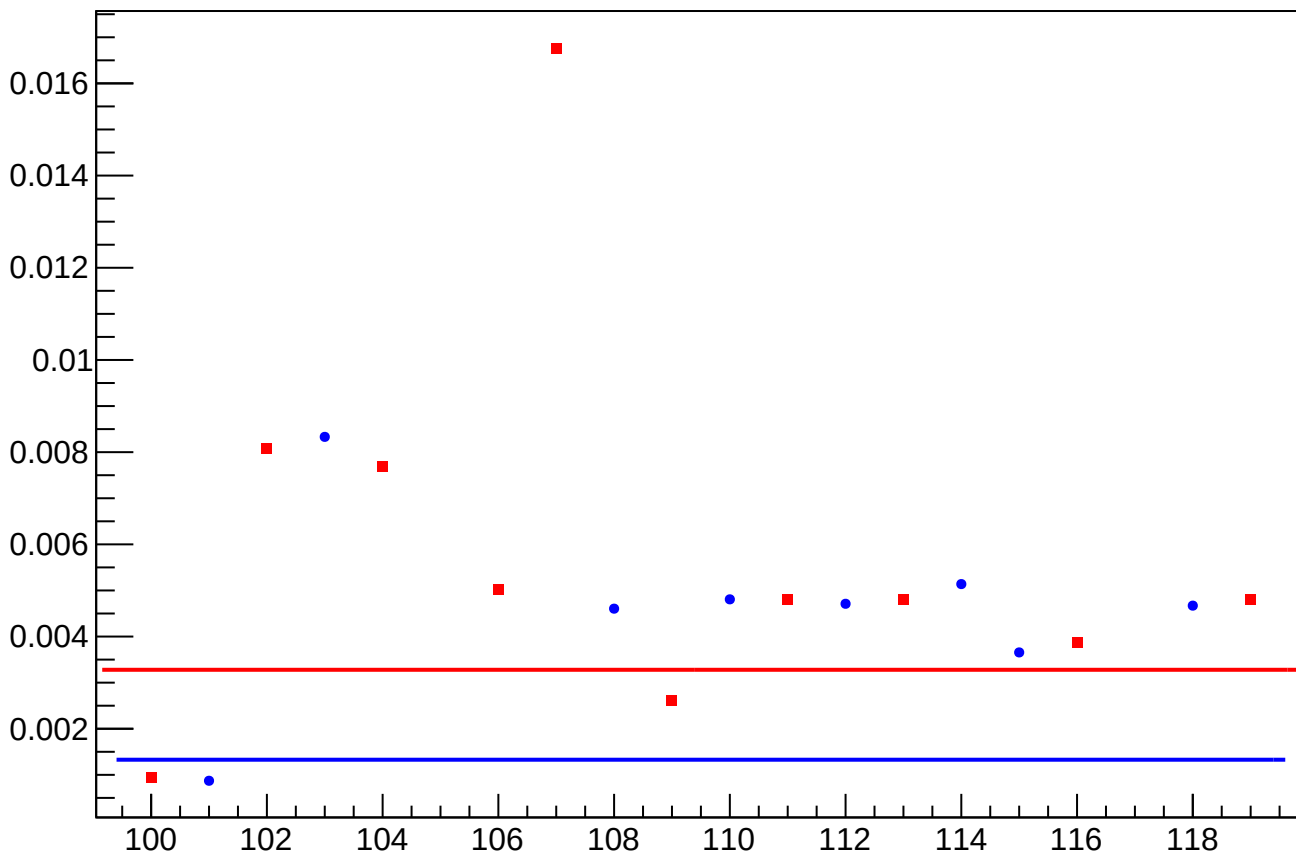
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.7/17

- 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  $\chi^2/\text{NDF}$ : 3296025.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2434961.7/9

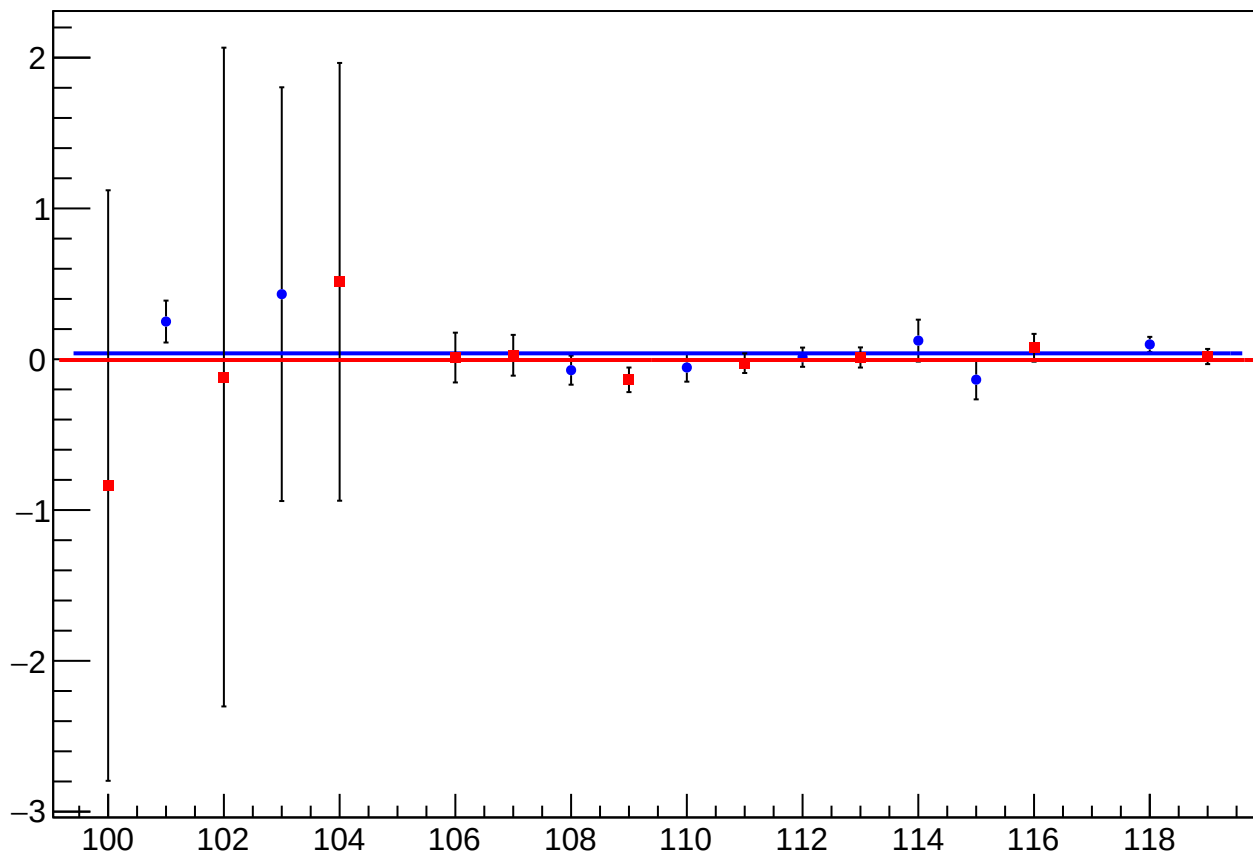
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 7247350.8/17

- 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: 0.039 $\pm$ 0.031  $\chi^2$ /NDF: 8.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.005 $\pm$ 0.029  $\chi^2$ /NDF: 4.1/9

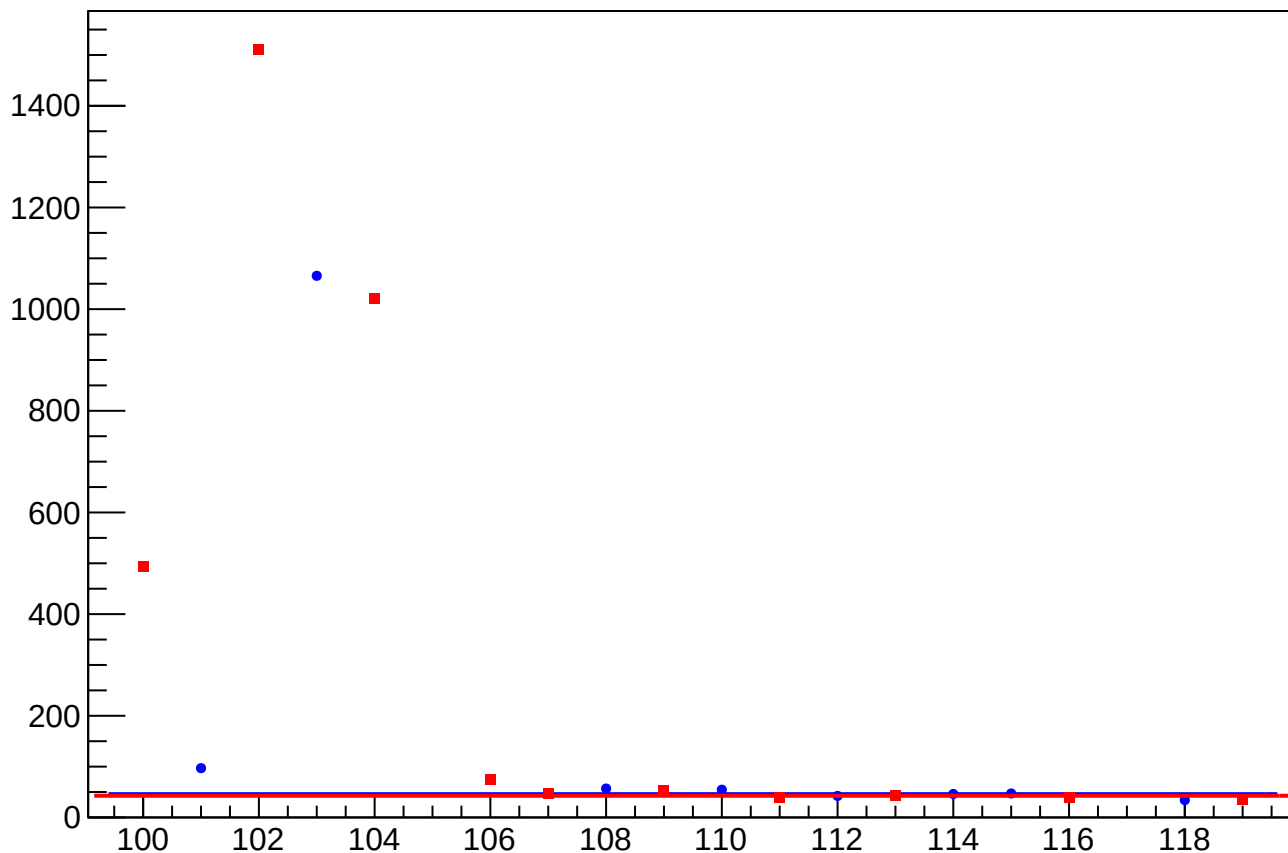
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.021  $\chi^2$ /NDF: 13.6/17

- 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: 45.811+/-0.022  $\chi^2/\text{NDF}$ : 1533462.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 42.700+/-0.020  $\chi^2/\text{NDF}$ : 2079416.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

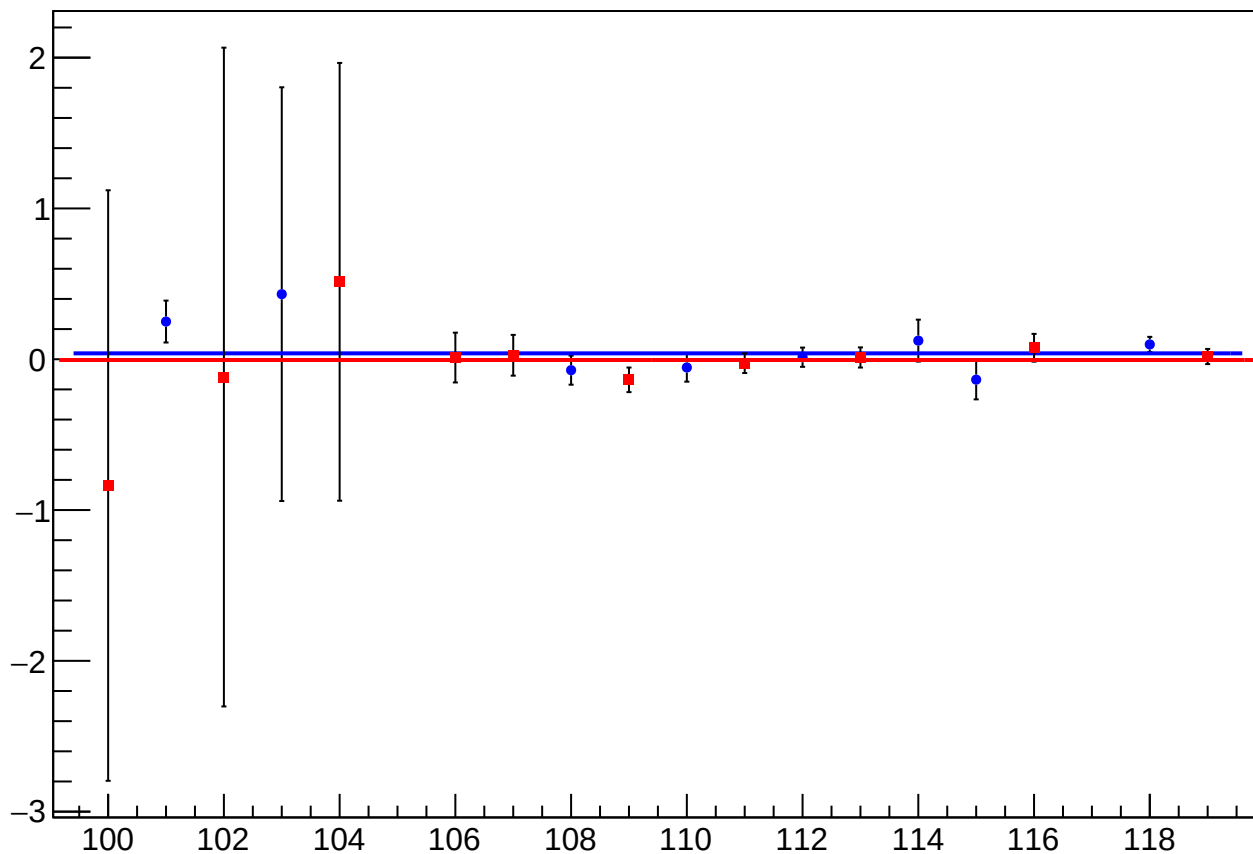
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 44.126+/-0.015  $\chi^2/\text{NDF}$ : 3623655.2/17

- 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: 0.039 $\pm$ 0.031  $\chi^2$ /NDF: 8.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.005 $\pm$ 0.029  $\chi^2$ /NDF: 4.1/9

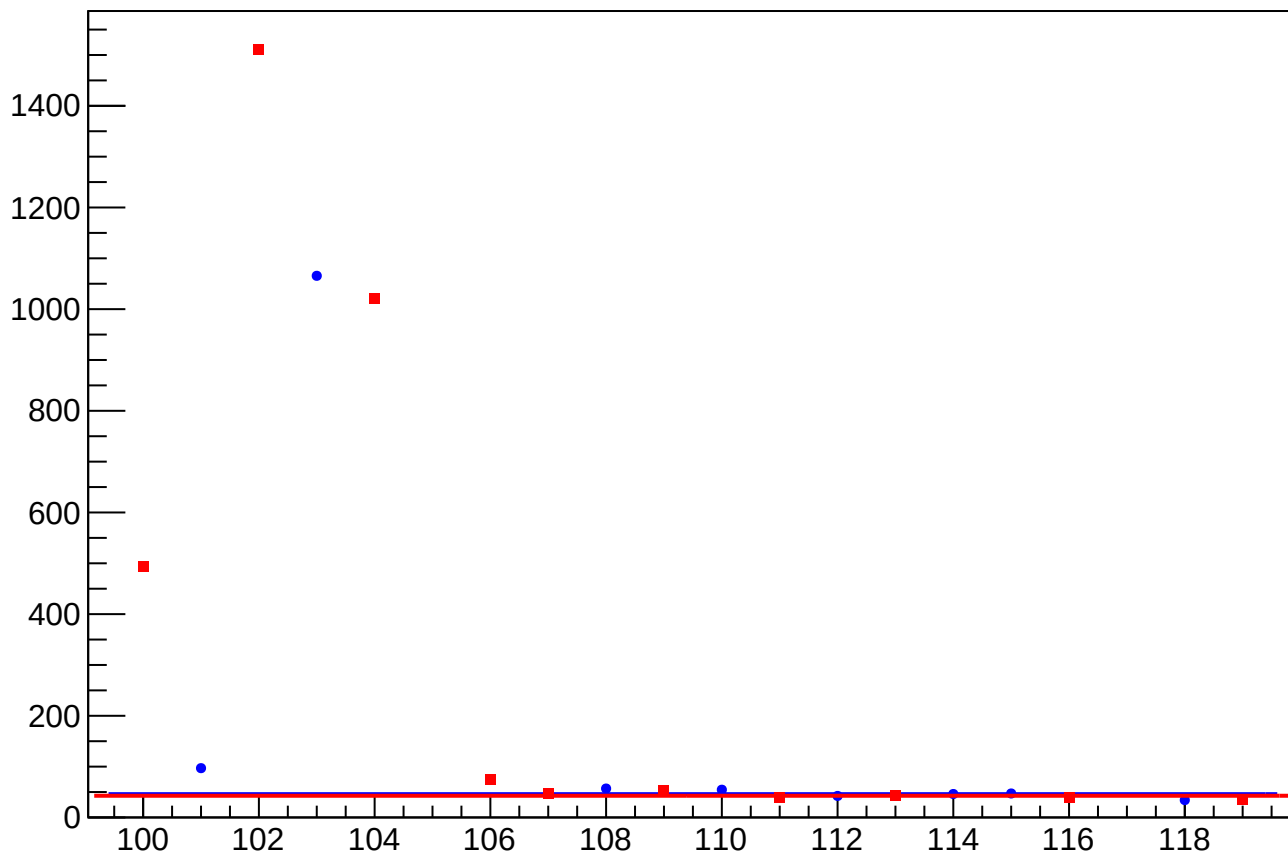
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.021  $\chi^2$ /NDF: 13.6/17

- 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: 45.811+/-0.022  $\chi^2/\text{NDF}$ : 1533462.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 42.700+/-0.020  $\chi^2/\text{NDF}$ : 2079416.9/9

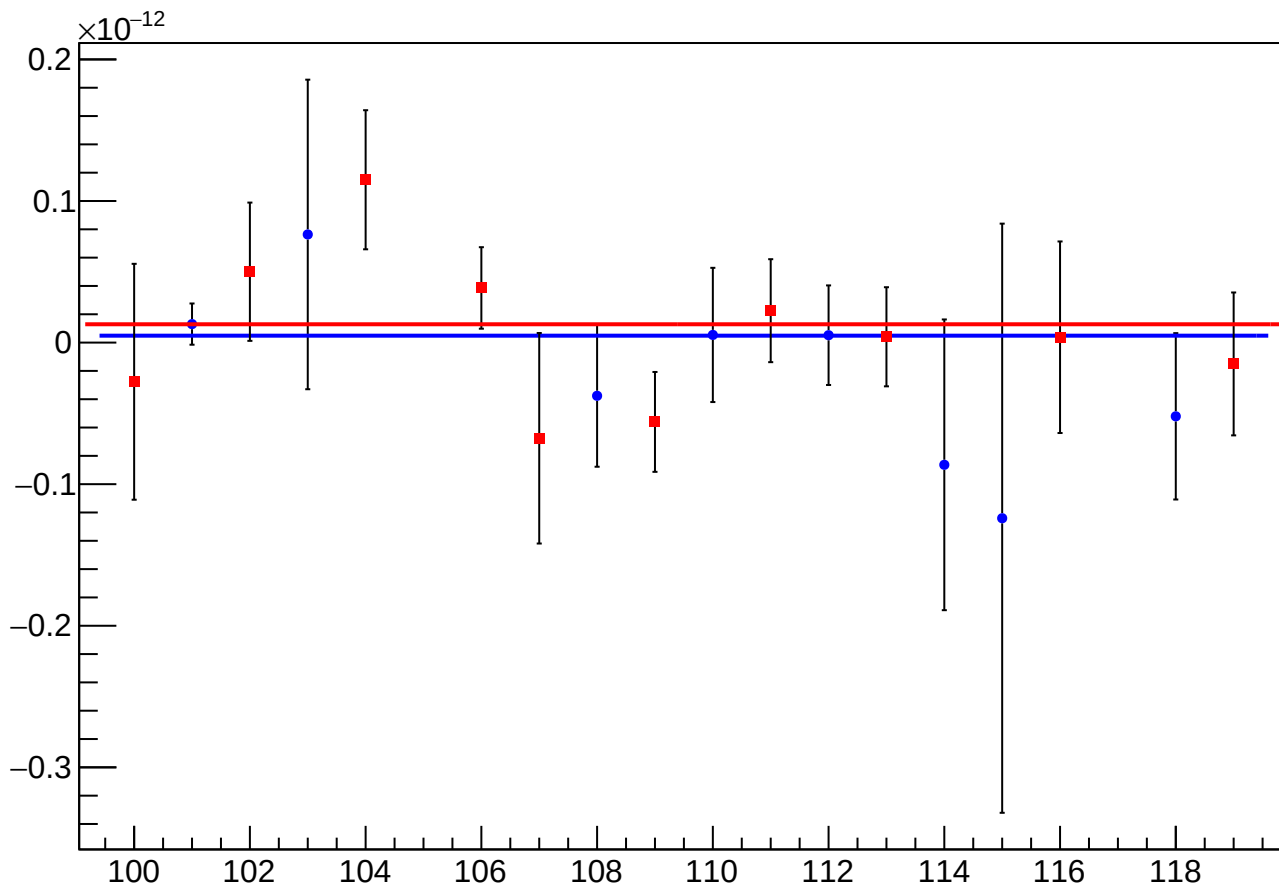
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 44.126+/-0.015  $\chi^2/\text{NDF}$ : 3623655.2/17

- 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: 3.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.4/9

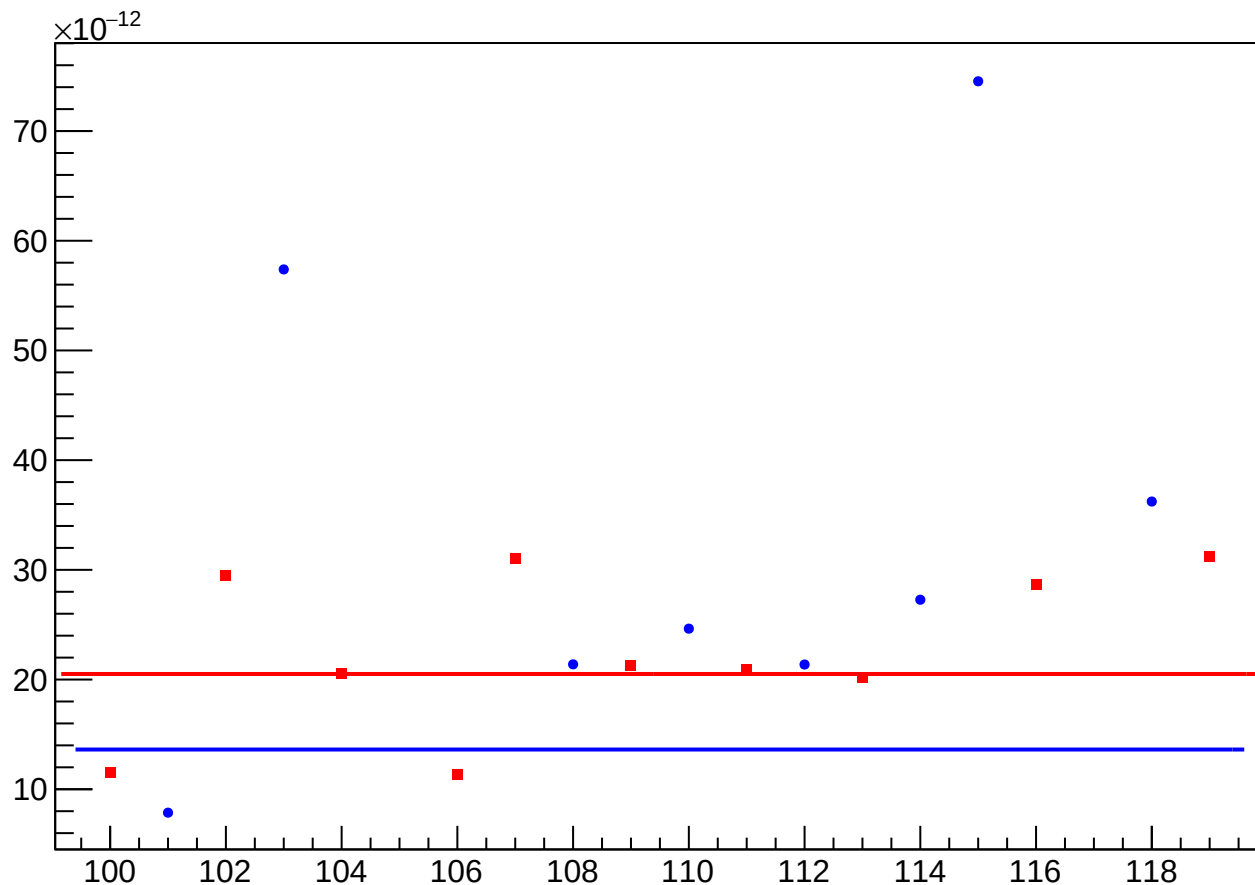
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.2/17

- 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  $\chi^2/\text{NDF}$ : 1389751.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 453522.0/9

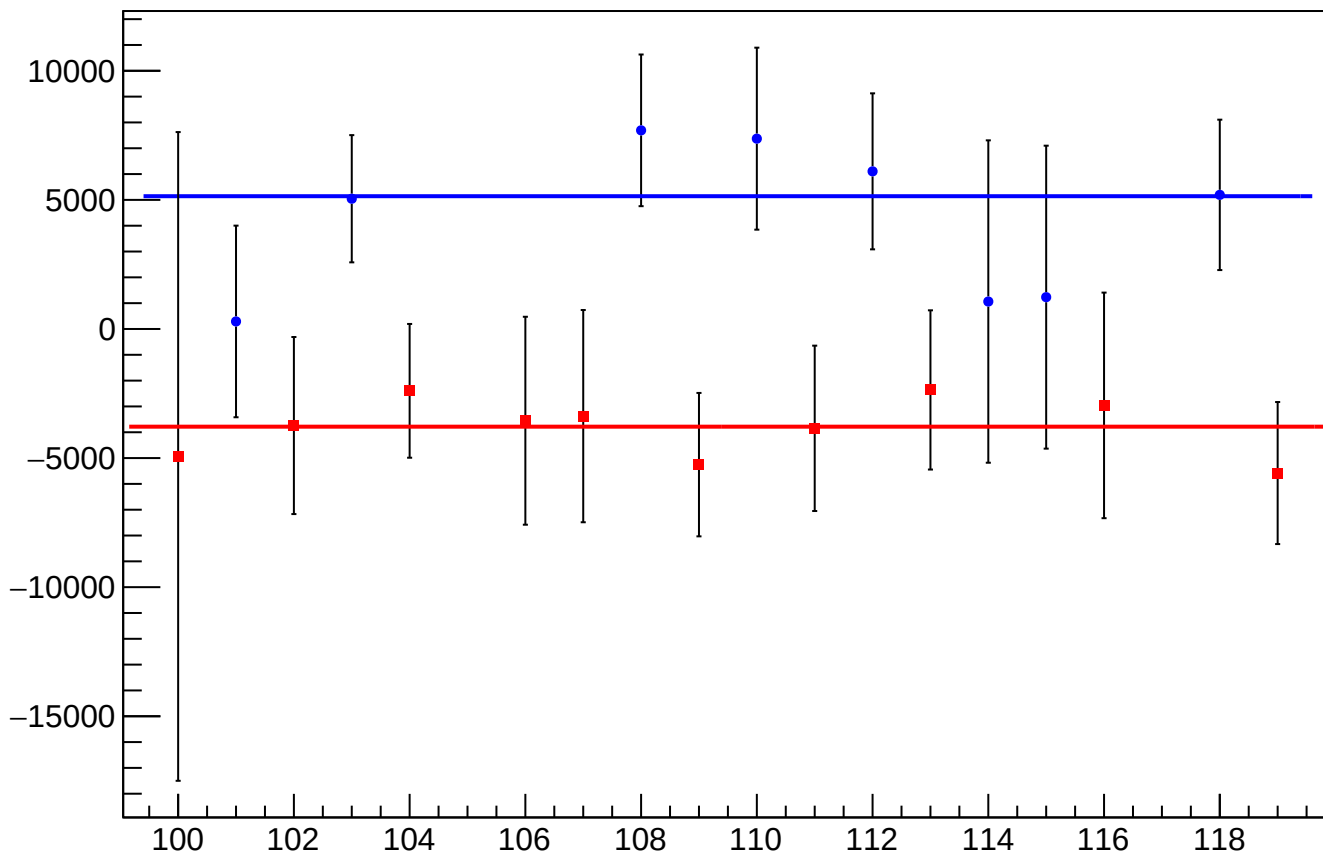
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2128425.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug



Right In: 5142.759+/-1181.850  $\chi^2/\text{NDF}$ : 3.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3783.723+/-1067.138  $\chi^2/\text{NDF}$ : 1.3/9

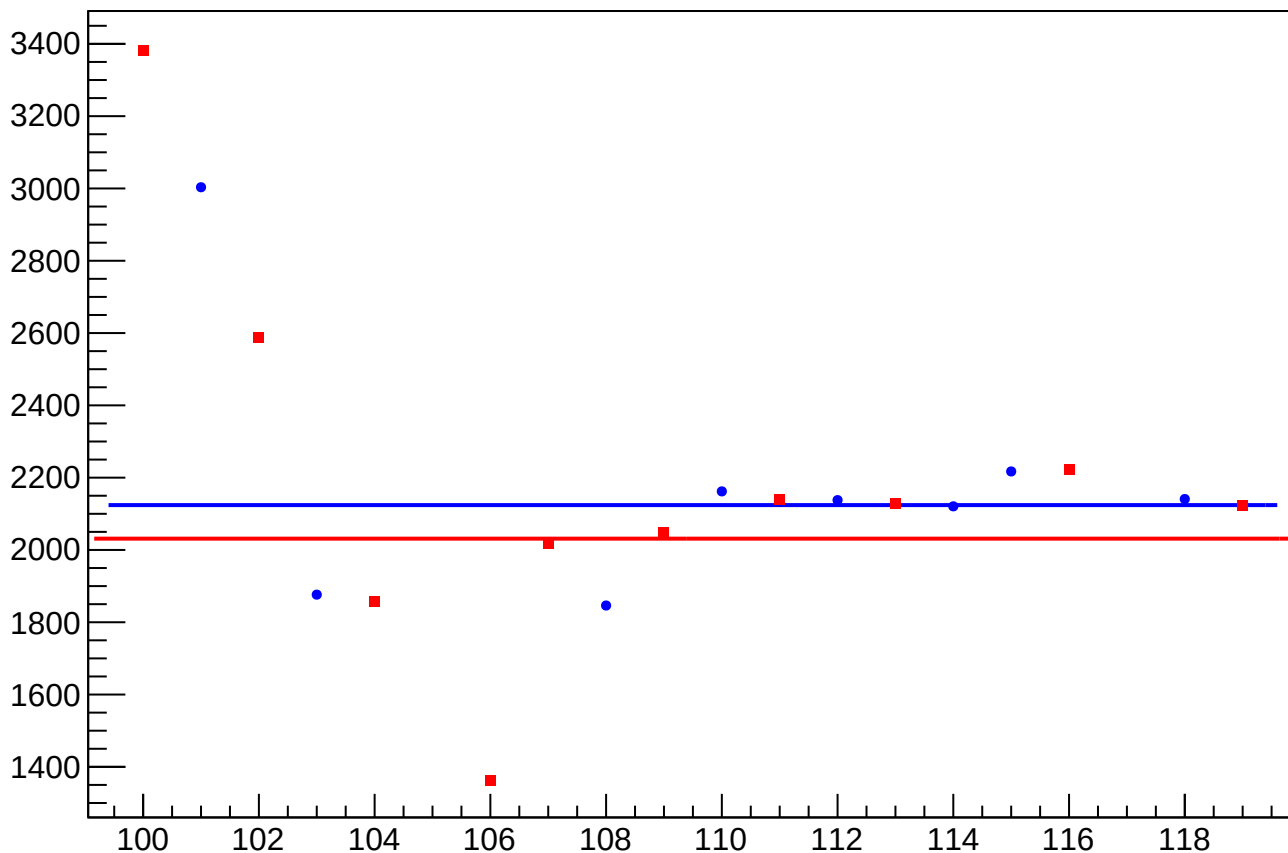
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 225.396+/-792.039  $\chi^2/\text{NDF}$ : 36.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 2124.095+/-0.836  $\chi^2/\text{NDF}$ : 151238.8/7

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

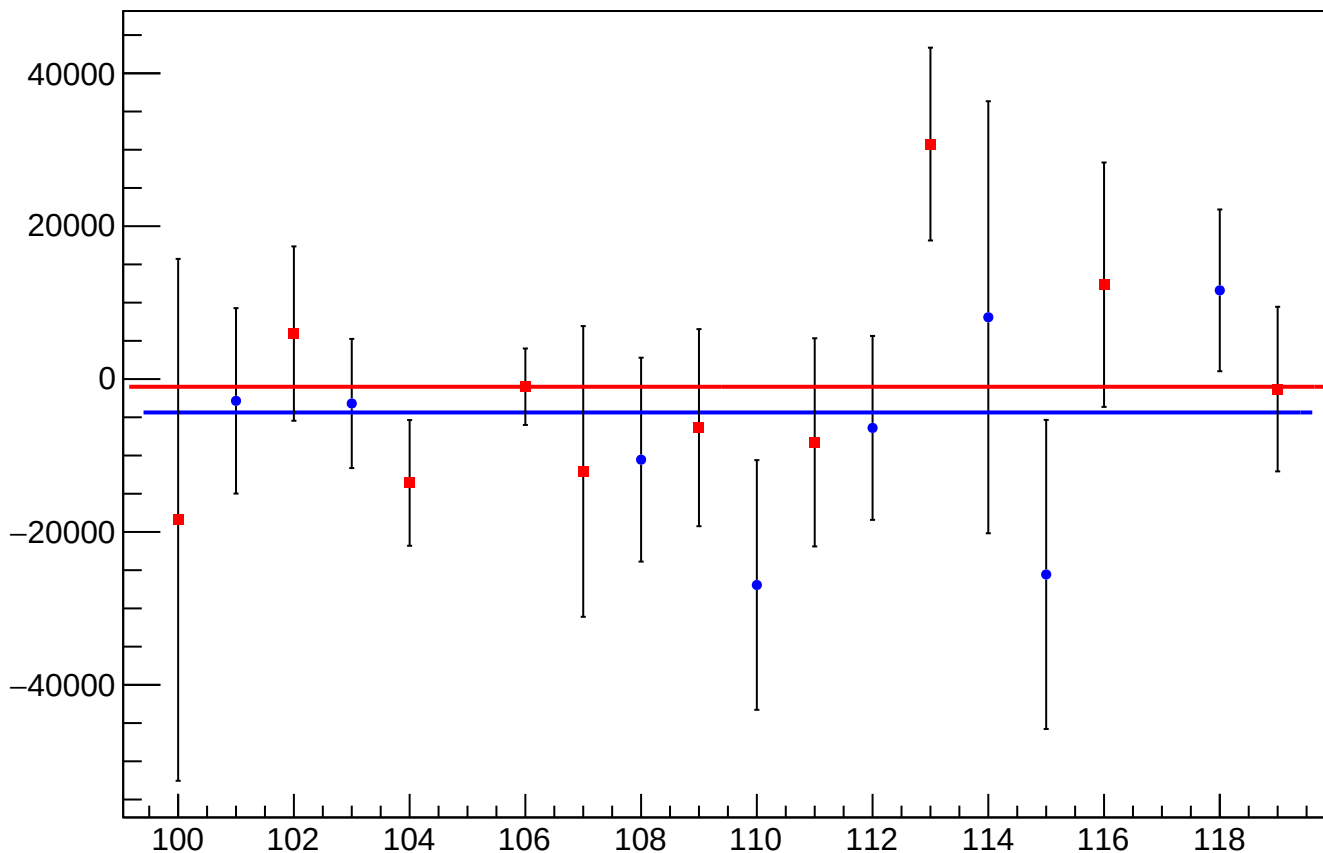
Right Out: 2031.267+/-0.734  $\chi^2/\text{NDF}$ : 194587.6/9

All: 2071.697+/-0.552  $\chi^2/\text{NDF}$ : 352791.1/17

- 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: -4368.113+/-4484.637  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1007.405+/-3221.667  $\chi^2/\text{NDF}$ : 10.8/9

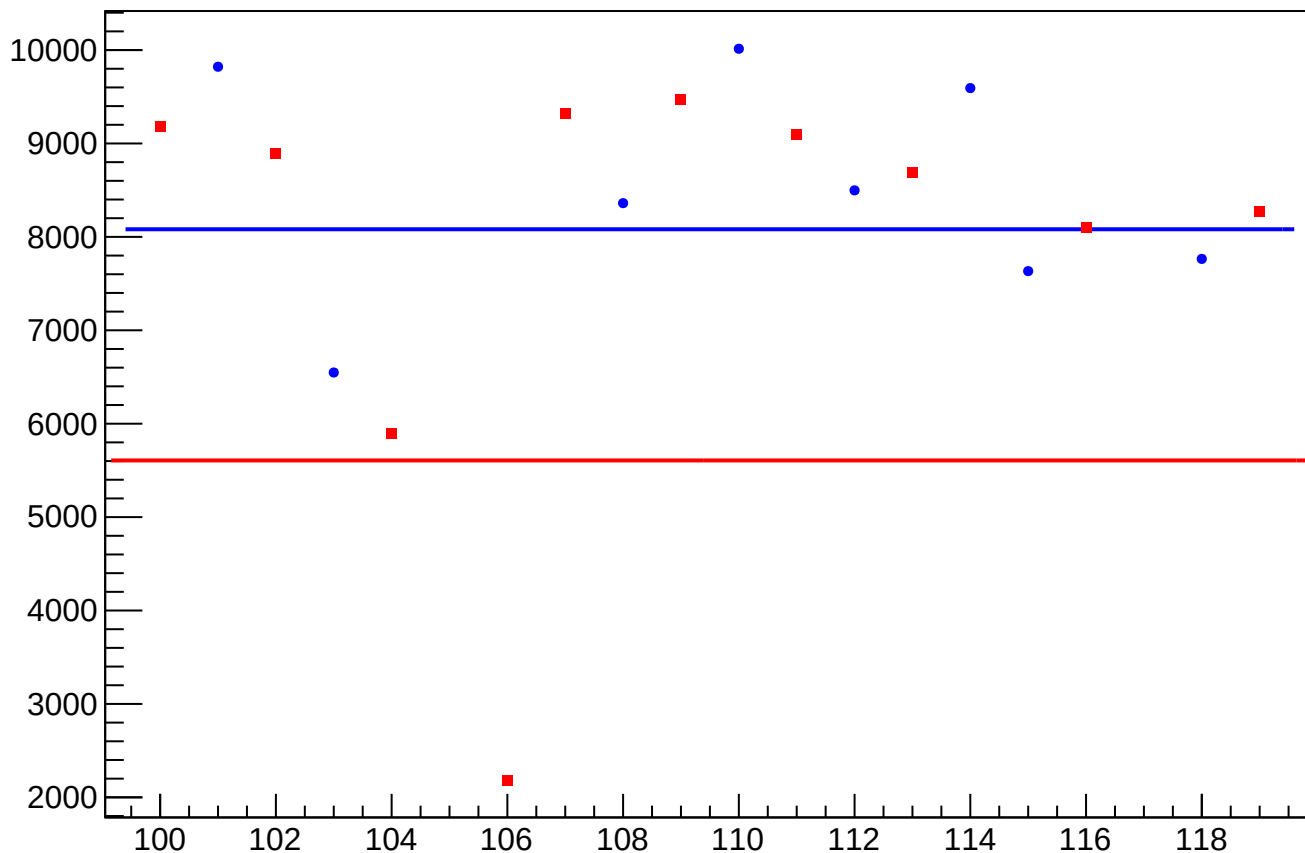
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2151.387+/-2616.504  $\chi^2/\text{NDF}$ : 16.9/17

- 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: 8081.506+/-3.171  $\chi^2/\text{NDF}$ : 146839.0/7

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: 5606.663+/-2.278  $\chi^2/\text{NDF}$ : 1807317.3/9

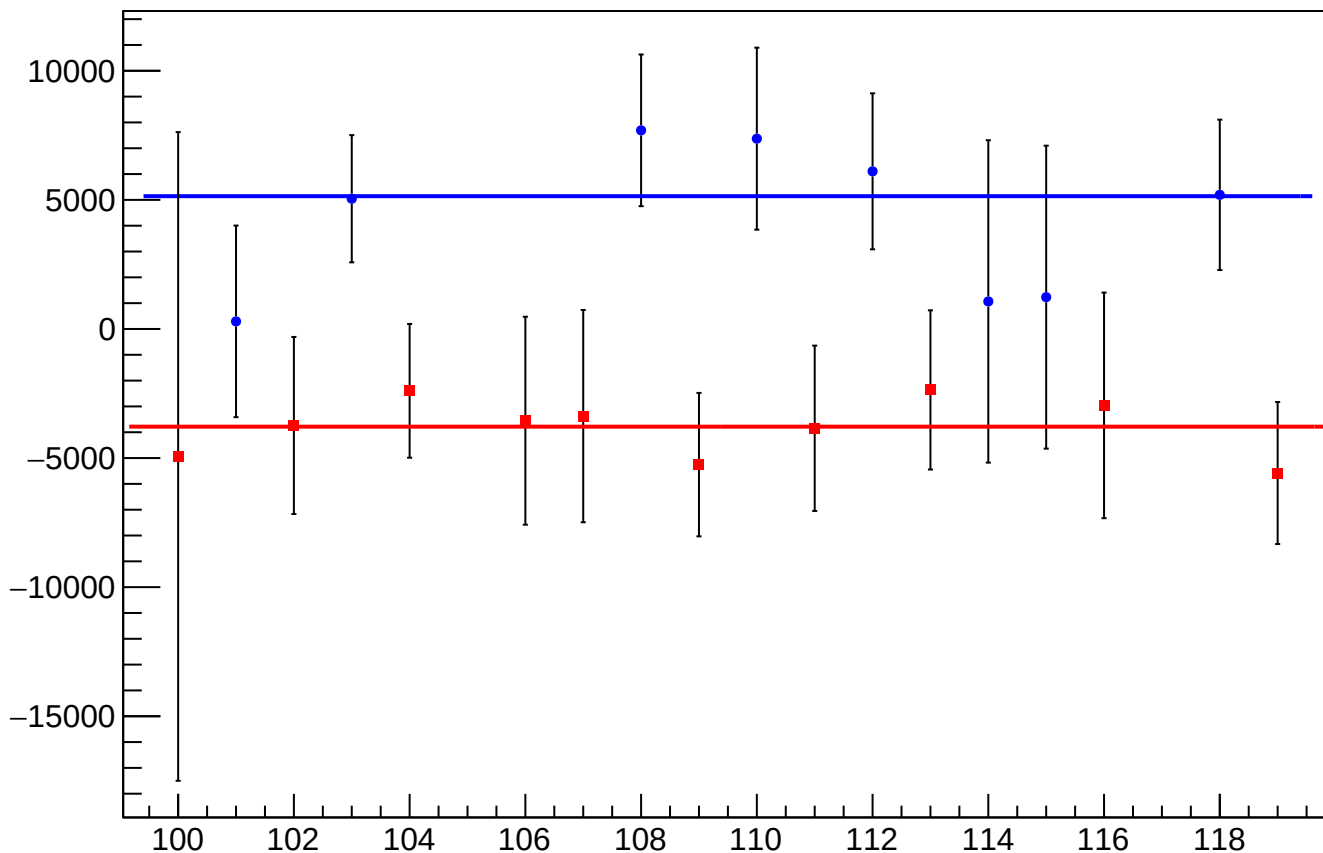
All: 6449.097+/-1.850  $\chi^2/\text{NDF}$ : 2355902.8/17

- 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: 5143.117+/-1181.850  $\chi^2/\text{NDF}$ : 3.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3783.399+/-1067.138  $\chi^2/\text{NDF}$ : 1.3/9

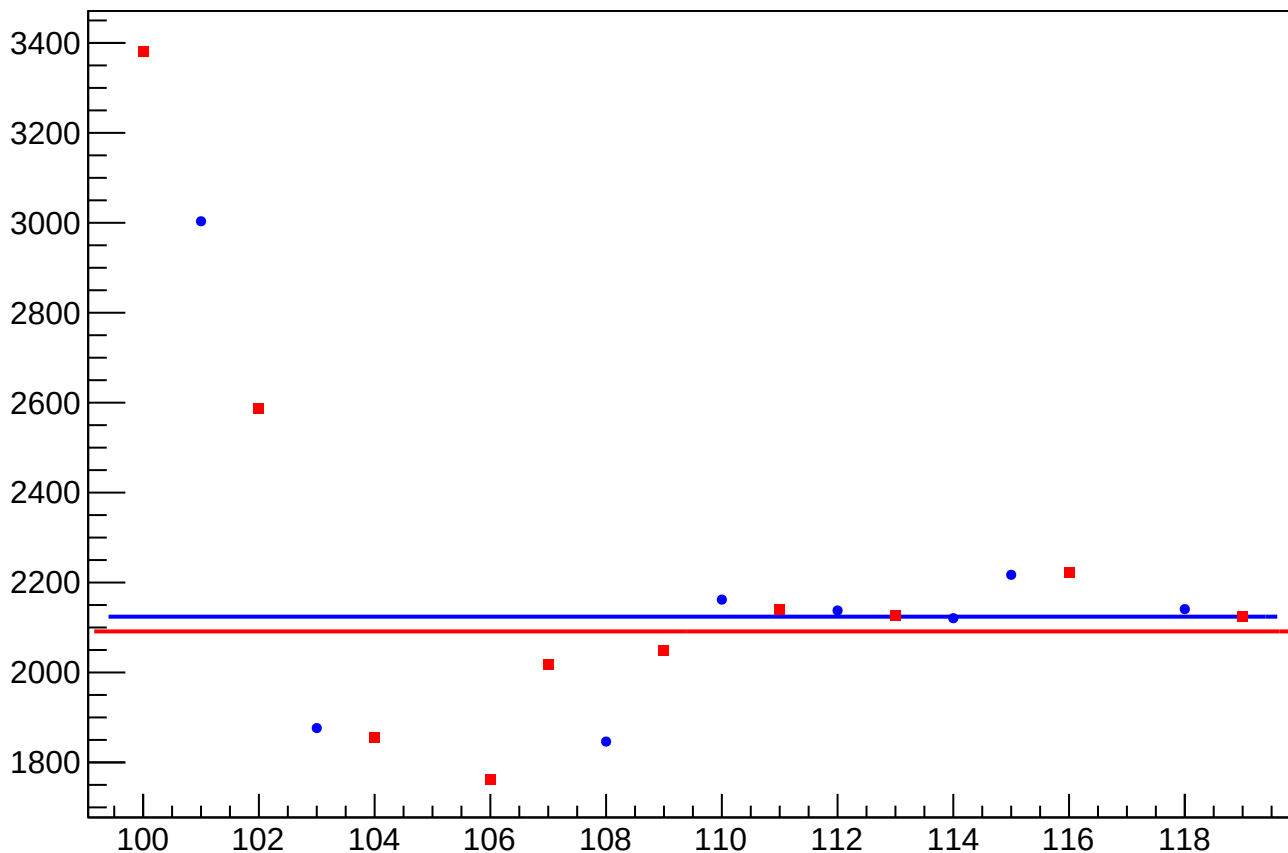
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 225.734+/-792.039  $\chi^2/\text{NDF}$ : 36.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 2124.095+/-0.836  $\chi^2/\text{NDF}$ : 151239.1/7

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

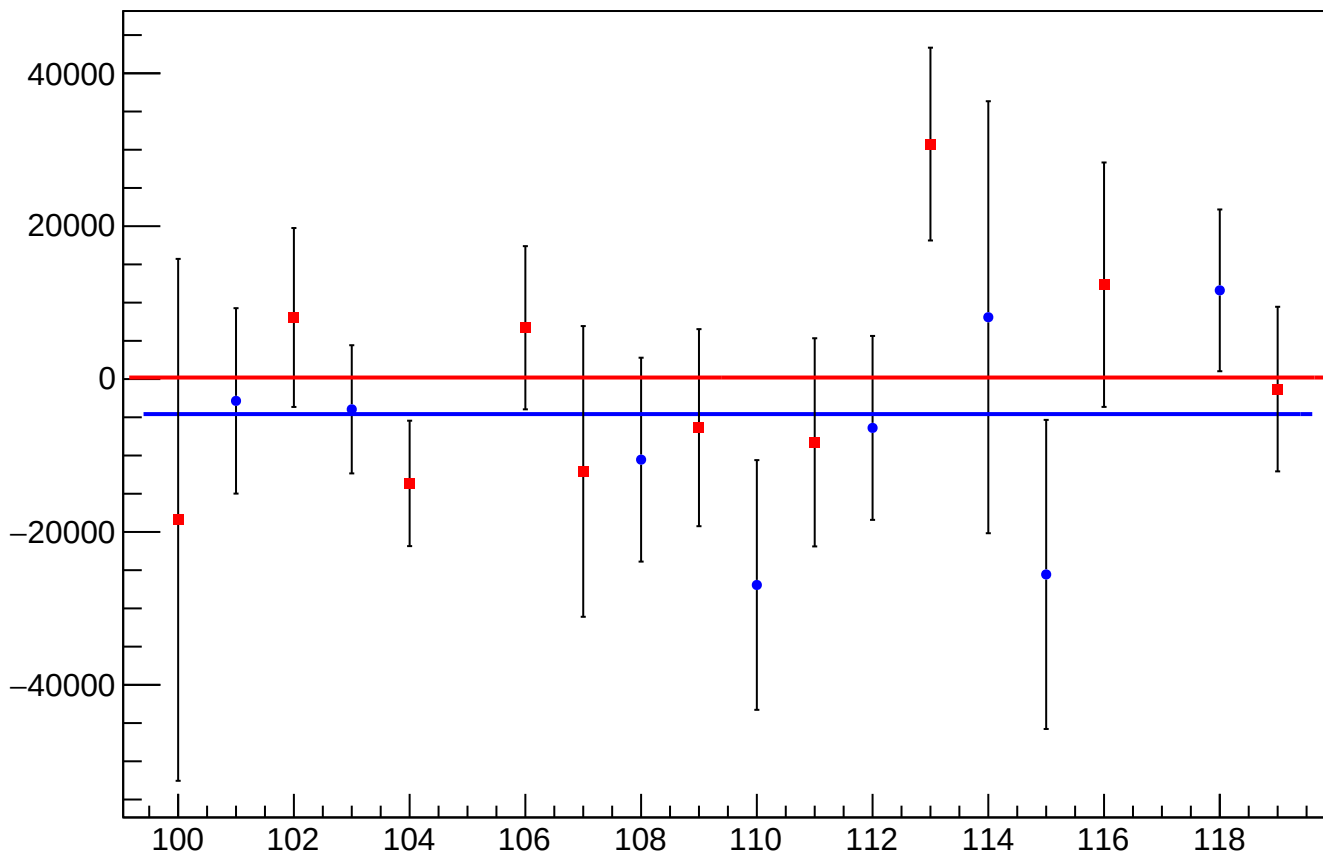
Right Out: 2091.300+/-0.748  $\chi^2/\text{NDF}$ : 100002.3/9

All: 2105.889+/-0.557  $\chi^2/\text{NDF}$ : 252096.3/17

- 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\_cor\_correction\_mean vs Slug



Right In: -4580.745+/-4474.937  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 202.367+/-3928.236  $\chi^2/\text{NDF}$ : 11.5/9

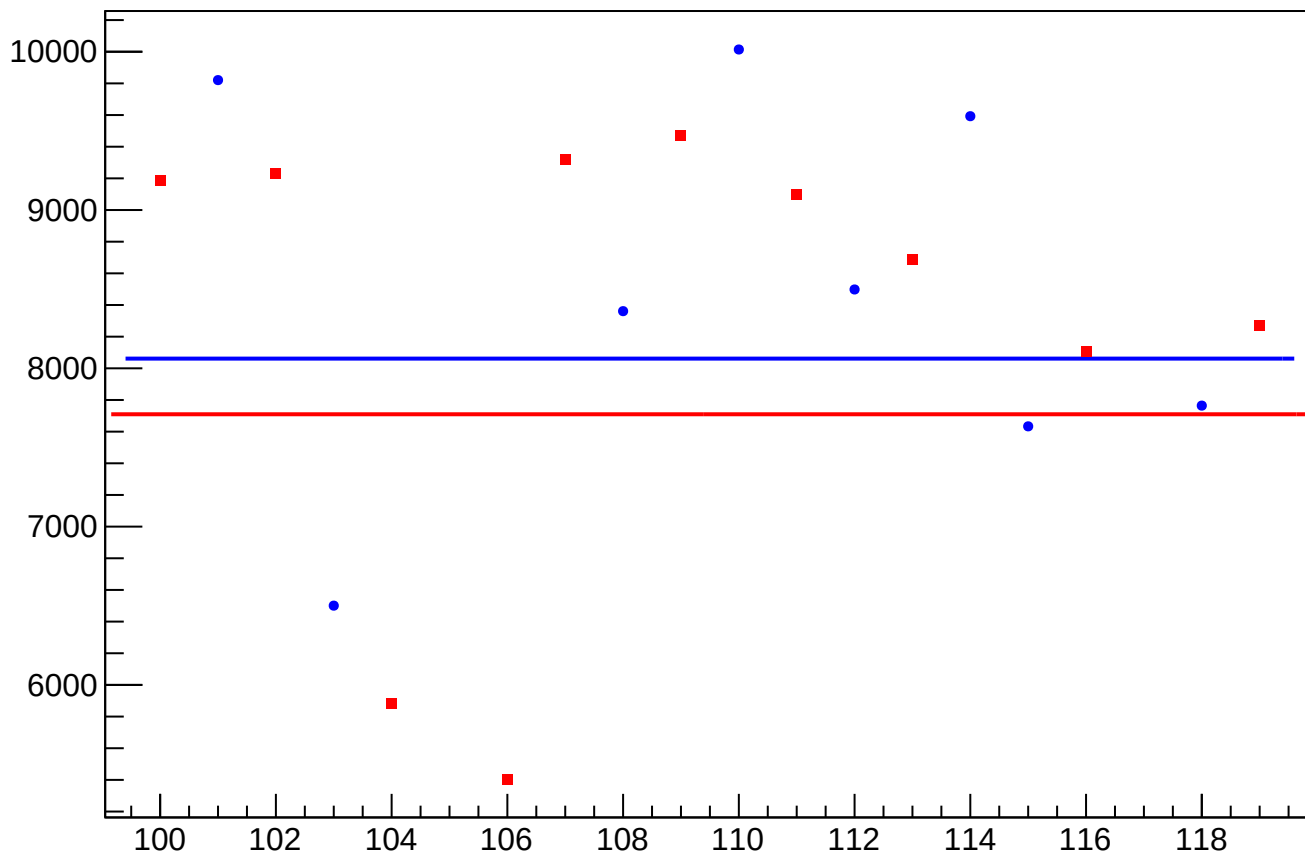
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1879.316+/-2952.154  $\chi^2/\text{NDF}$ : 17.9/17

- 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: 8061.346+/-3.164  $\chi^2/\text{NDF}$ : 151968.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7709.757+/-2.778  $\chi^2/\text{NDF}$ : 321623.1/9

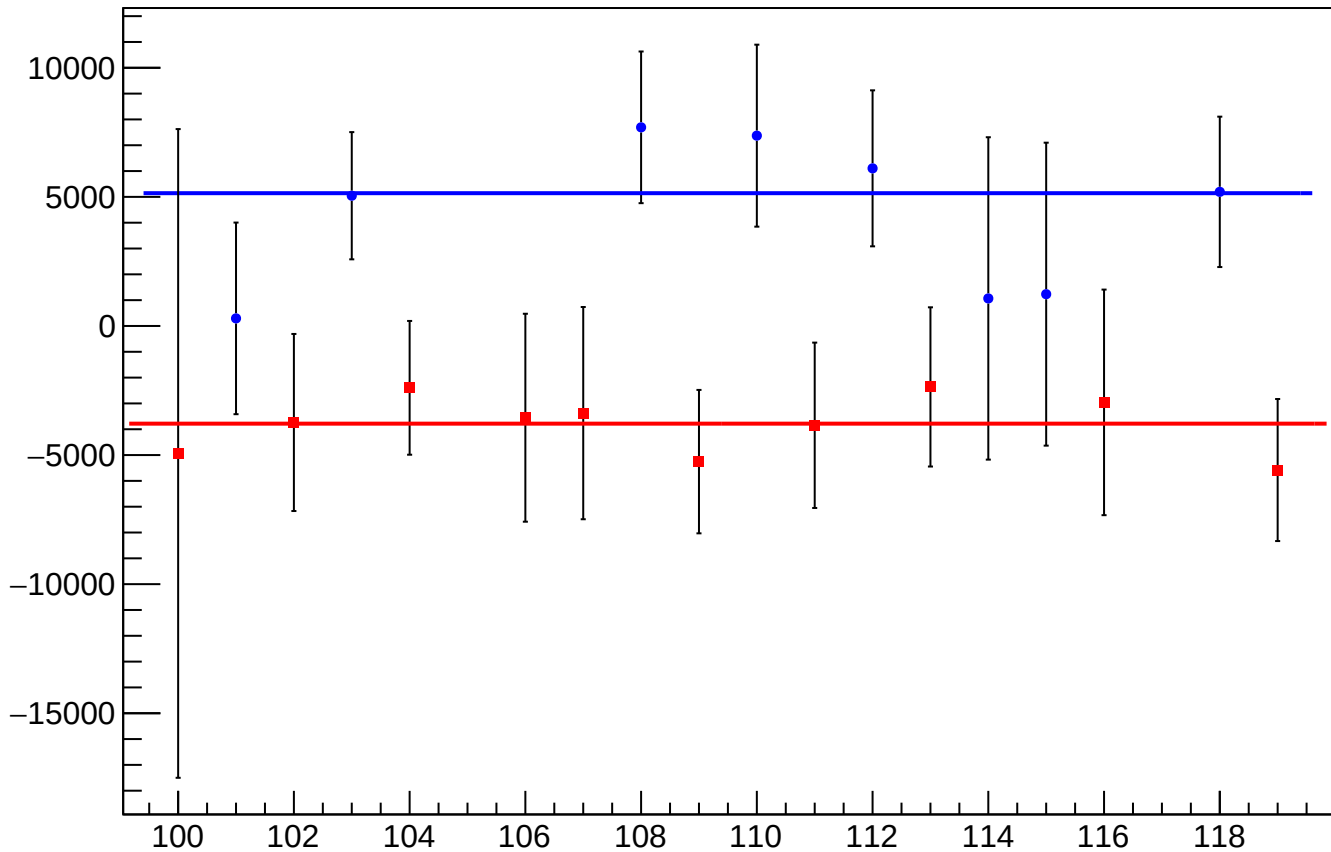
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7862.774+/-2.087  $\chi^2/\text{NDF}$ : 480564.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug



Right In: 5143.117+/-1181.850  $\chi^2/\text{NDF}$ : 3.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3783.399+/-1067.138  $\chi^2/\text{NDF}$ : 1.3/9

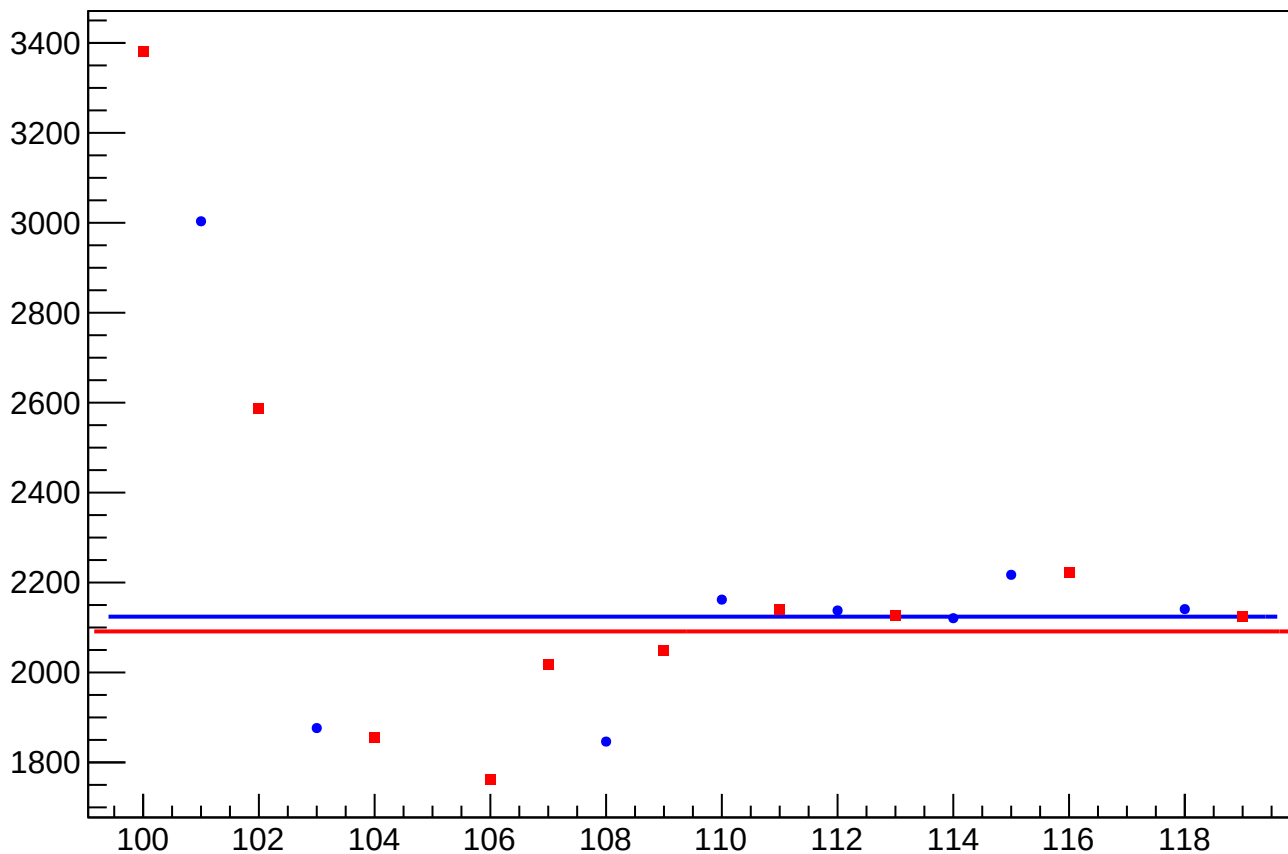
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 225.734+/-792.039  $\chi^2/\text{NDF}$ : 36.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 2124.095+/-0.836  $\chi^2/\text{NDF}$ : 151239.1/7

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

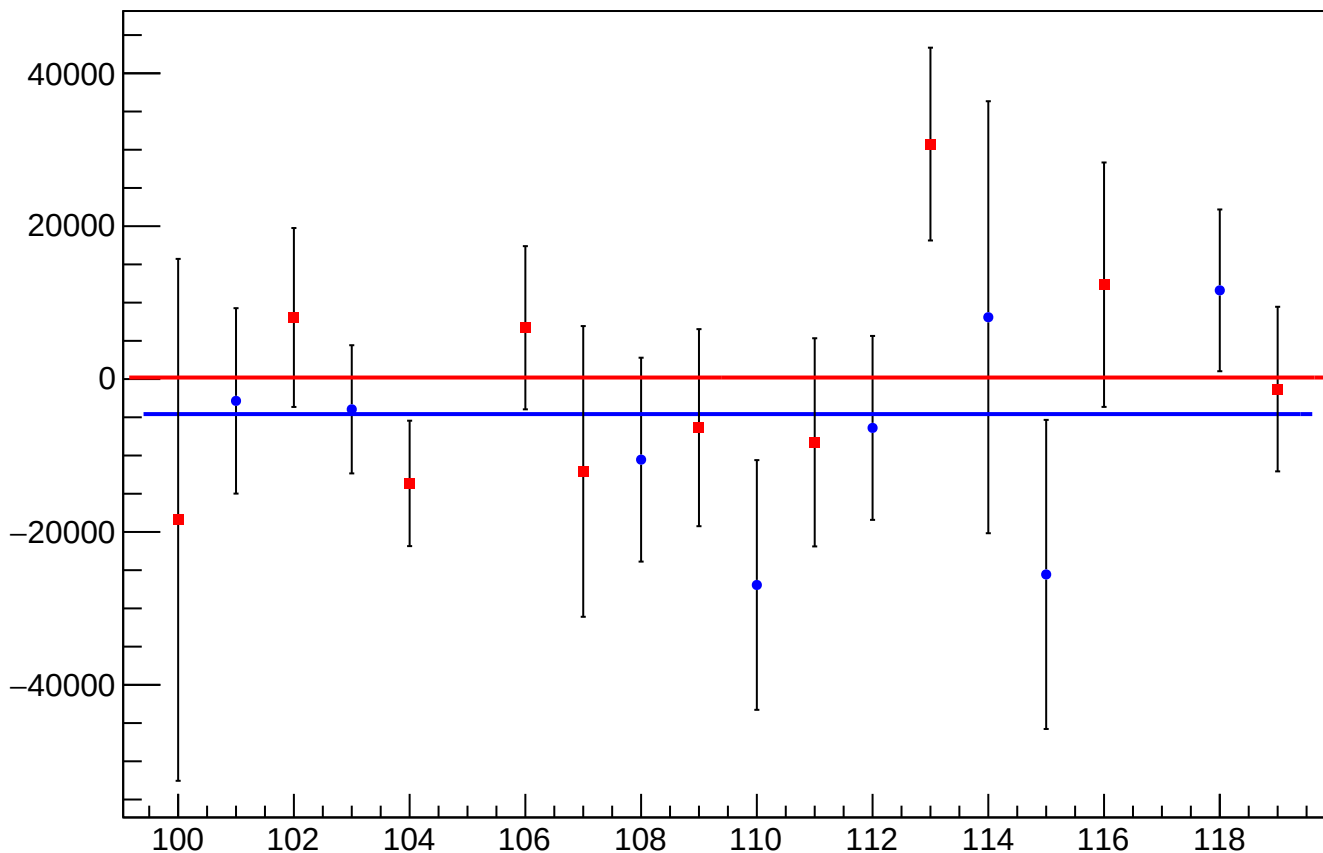
Right Out: 2091.300+/-0.748  $\chi^2/\text{NDF}$ : 100002.3/9

All: 2105.889+/-0.557  $\chi^2/\text{NDF}$ : 252096.3/17

- 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\_eigen\_cor\_correction\_mean vs Slug



Right In: -4580.745+/-4474.937  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 202.367+/-3928.236  $\chi^2/\text{NDF}$ : 11.5/9

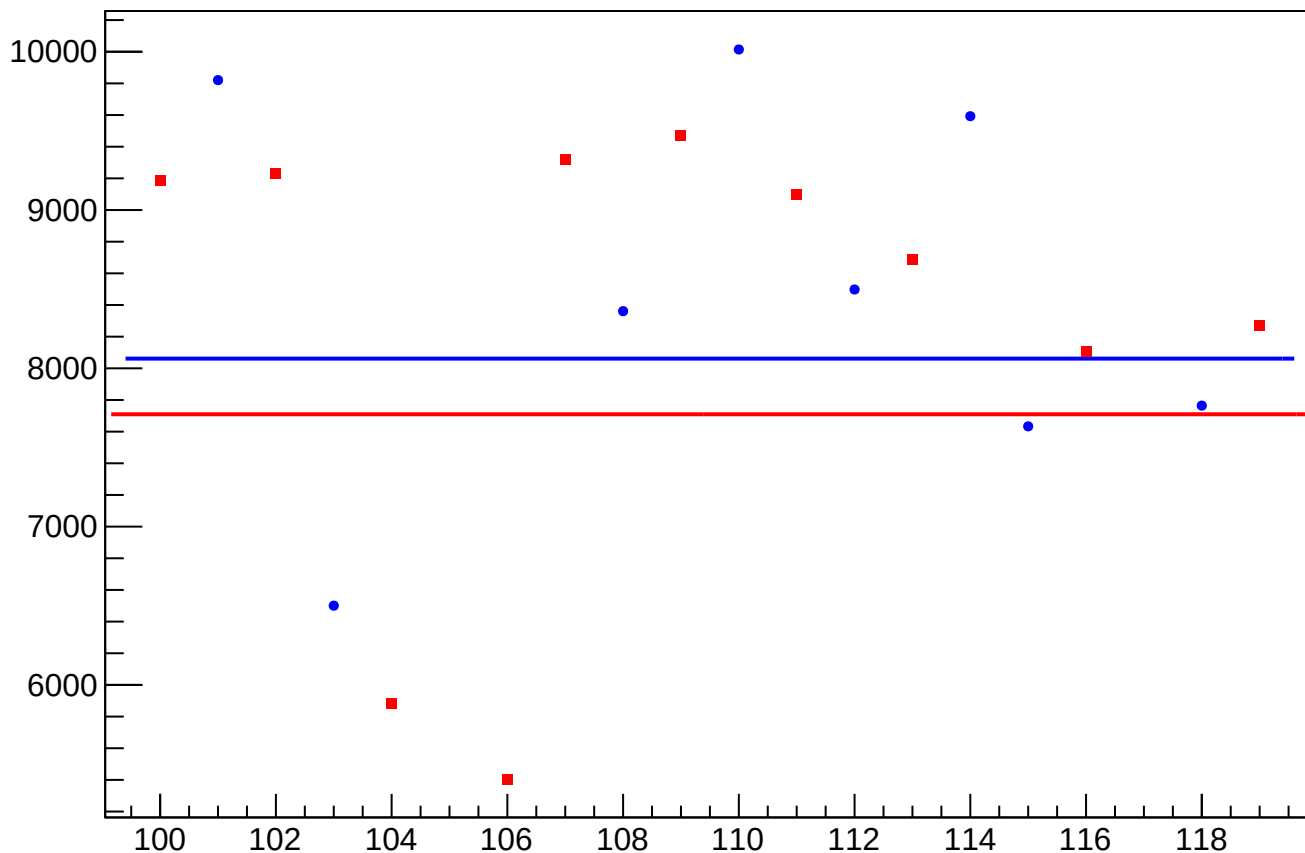
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1879.316+/-2952.154  $\chi^2/\text{NDF}$ : 17.9/17

- 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: 8061.346+/-3.164  $\chi^2/\text{NDF}$ : 151968.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7709.757+/-2.778  $\chi^2/\text{NDF}$ : 321623.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

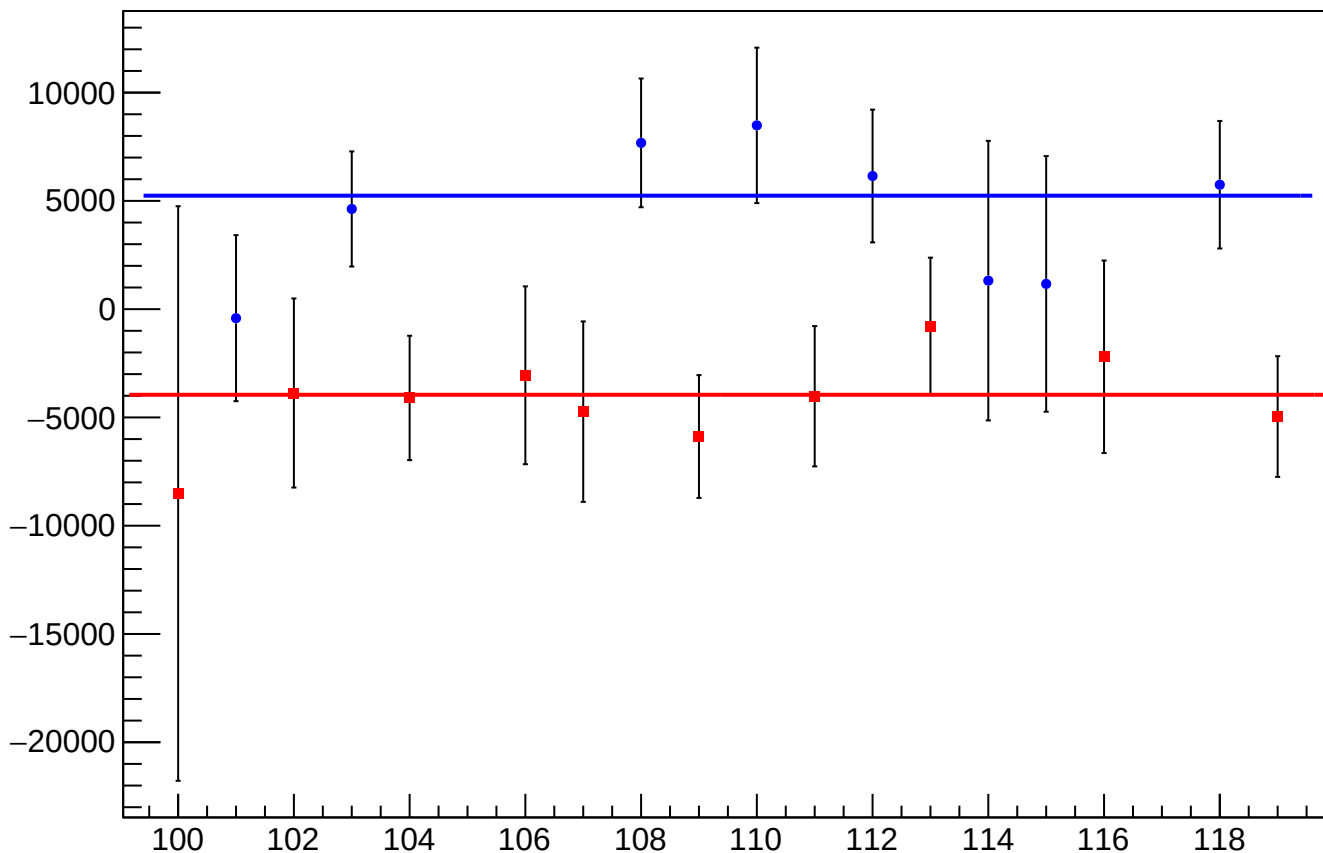
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7862.774+/-2.087  $\chi^2/\text{NDF}$ : 480564.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug



Right In: 5240.571 $\pm$ 1217.382  $\chi^2$ /NDF: 4.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3954.027 $\pm$ 1121.319  $\chi^2$ /NDF: 2.0/9

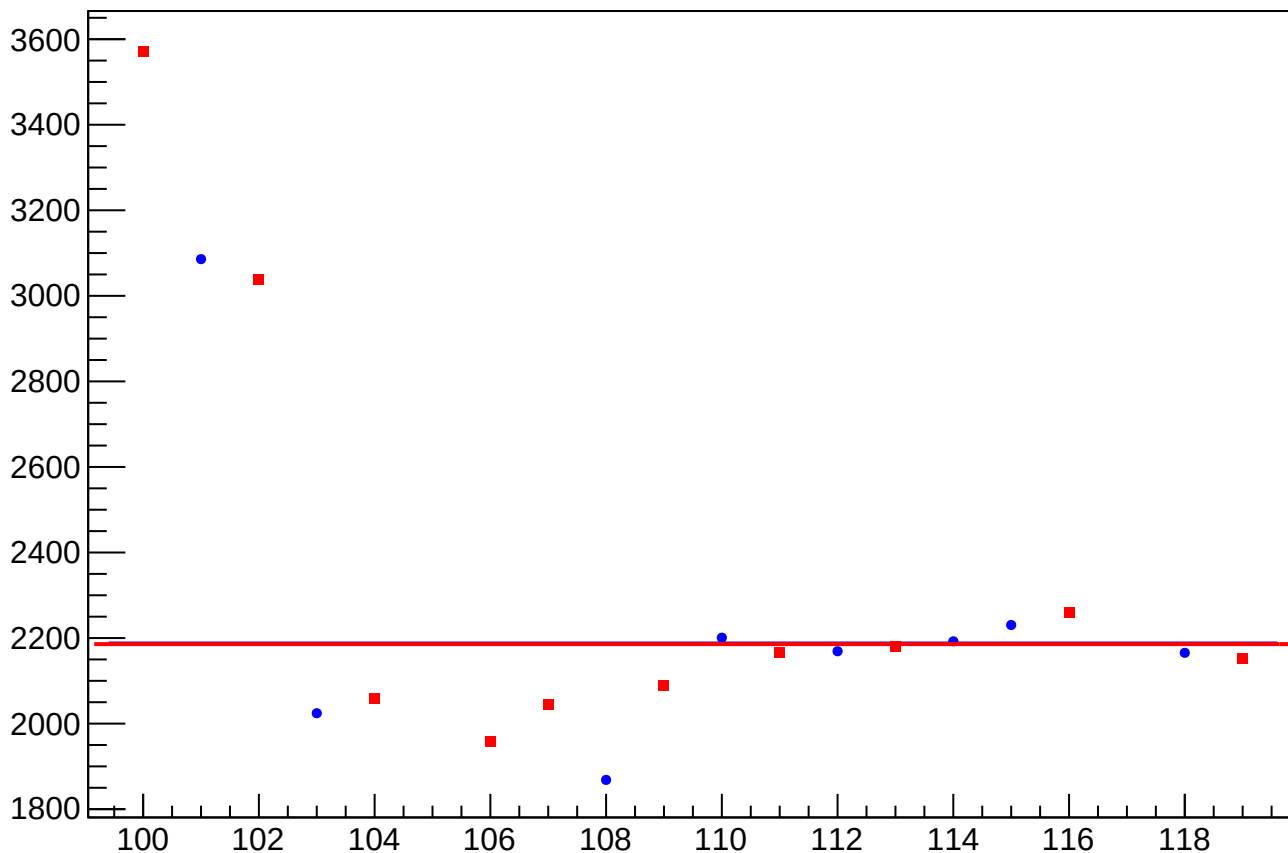
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 266.238 $\pm$ 824.765  $\chi^2$ /NDF: 37.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 2187.214 $\pm$ 0.861  $\chi^2$ /NDF: 140713.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2185.856 $\pm$ 0.792  $\chi^2$ /NDF: 114026.0/9

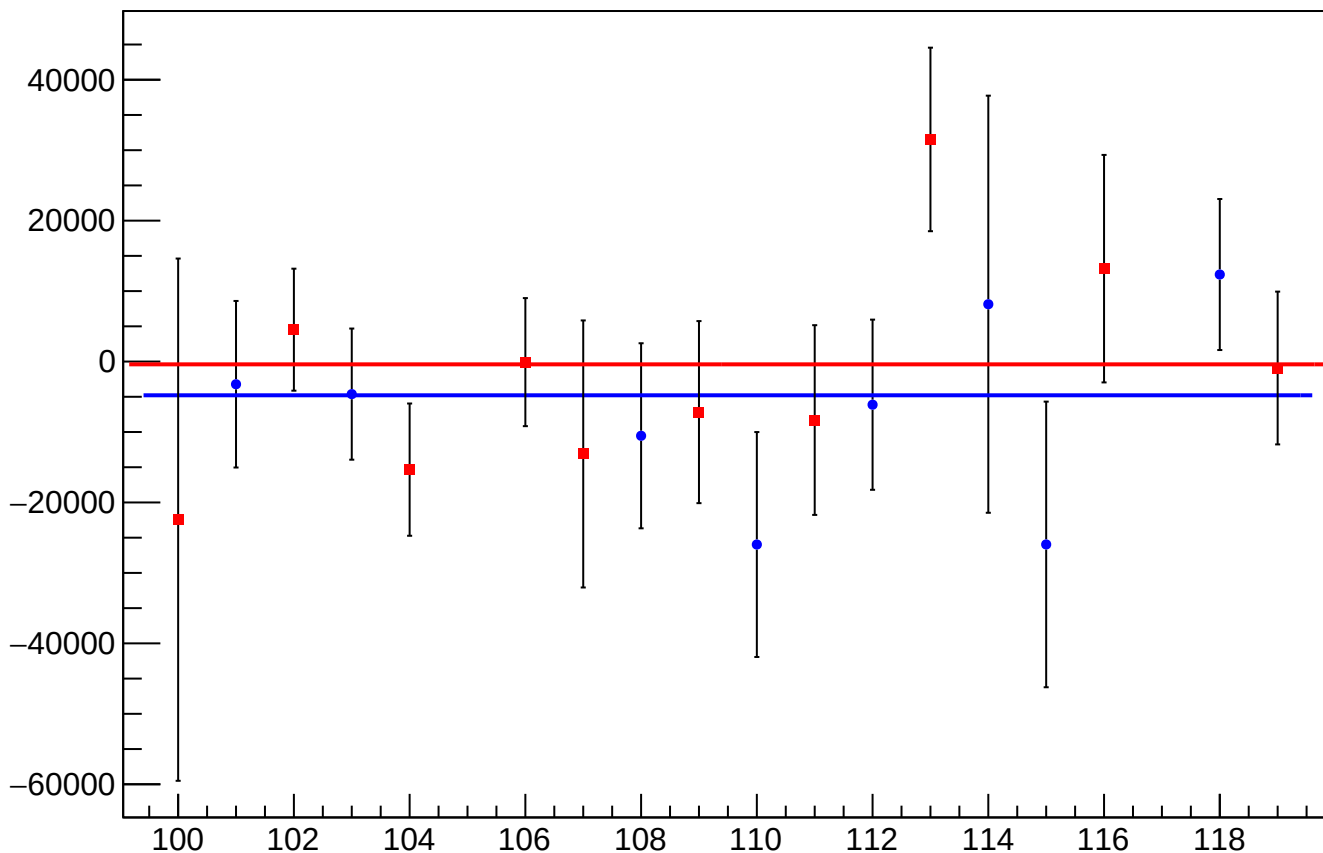
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2186.478 $\pm$ 0.583  $\chi^2$ /NDF: 254741.1/17

- 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: -4788.255+/-4585.450  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -396.110+/-3778.307  $\chi^2/\text{NDF}$ : 11.0/9

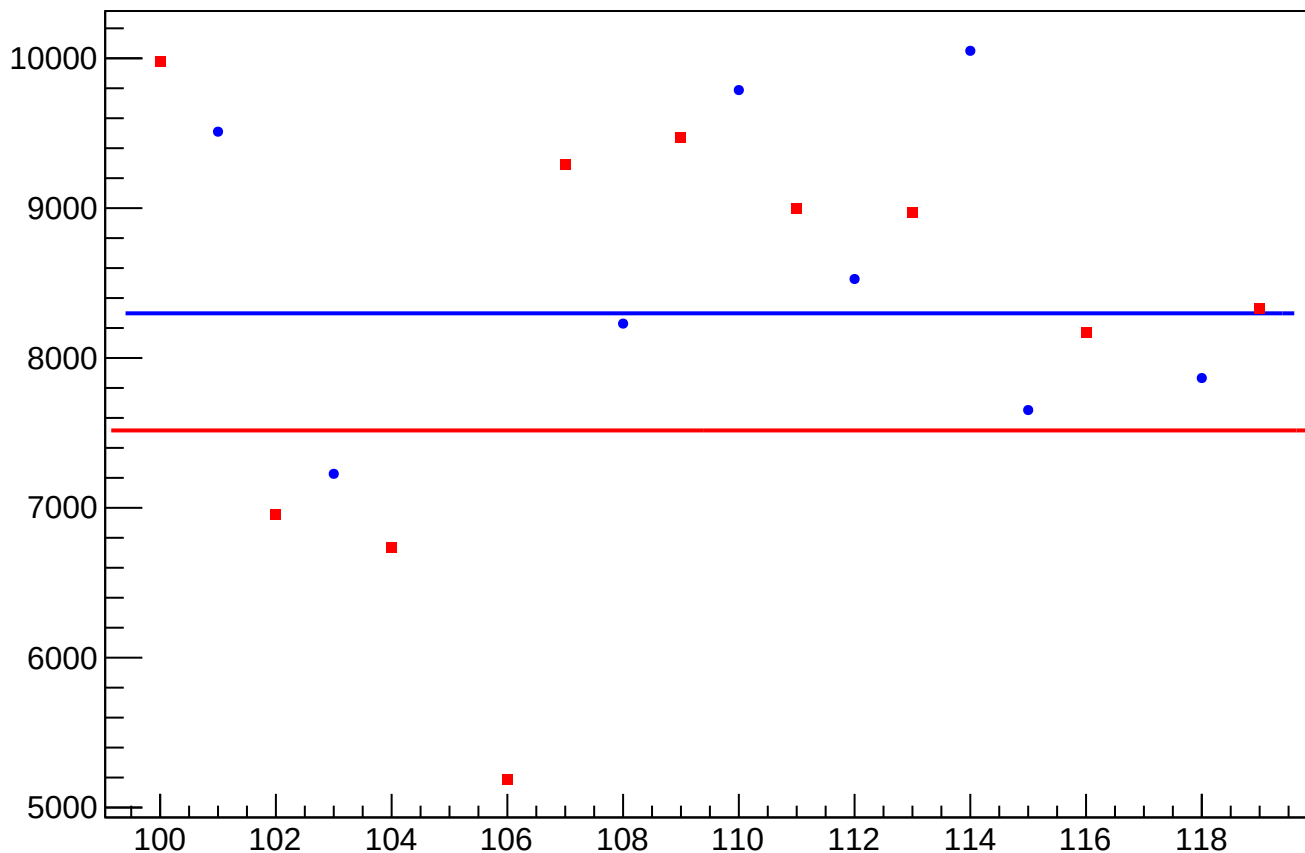
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2172.230+/-2915.948  $\chi^2/\text{NDF}$ : 17.4/17

- 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: 8298.013+/-3.242  $\chi^2/\text{NDF}$ : 78004.8/7

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

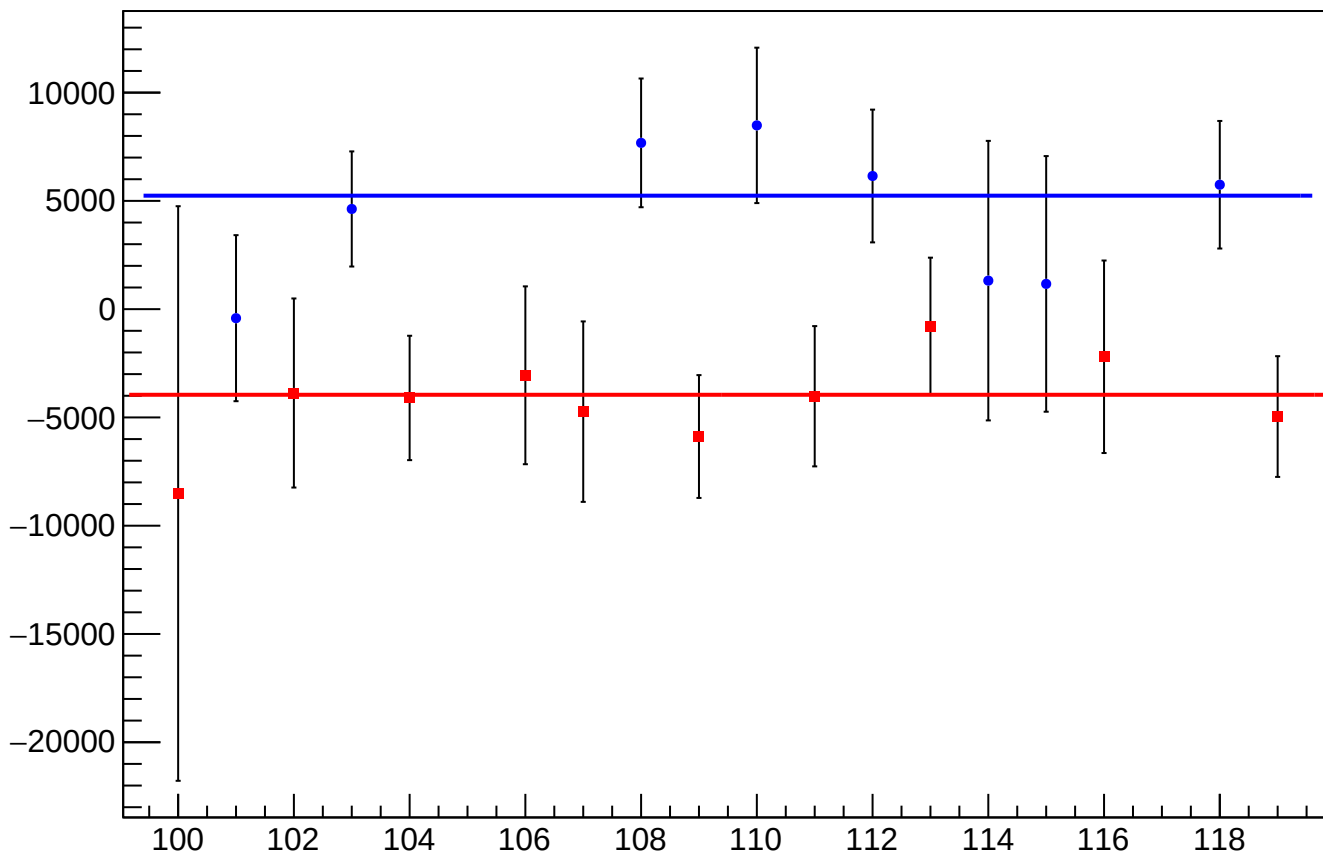
Right Out: 7516.436+/-2.672  $\chi^2/\text{NDF}$ : 289569.1/9

All: 7832.494+/-2.062  $\chi^2/\text{NDF}$ : 402181.8/17

- 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\_at2lr\_avg\_avg\_mean vs Slug



Right In: 5240.578 $\pm$ 1217.381  $\chi^2$ /NDF: 4.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3954.035 $\pm$ 1121.318  $\chi^2$ /NDF: 2.0/9

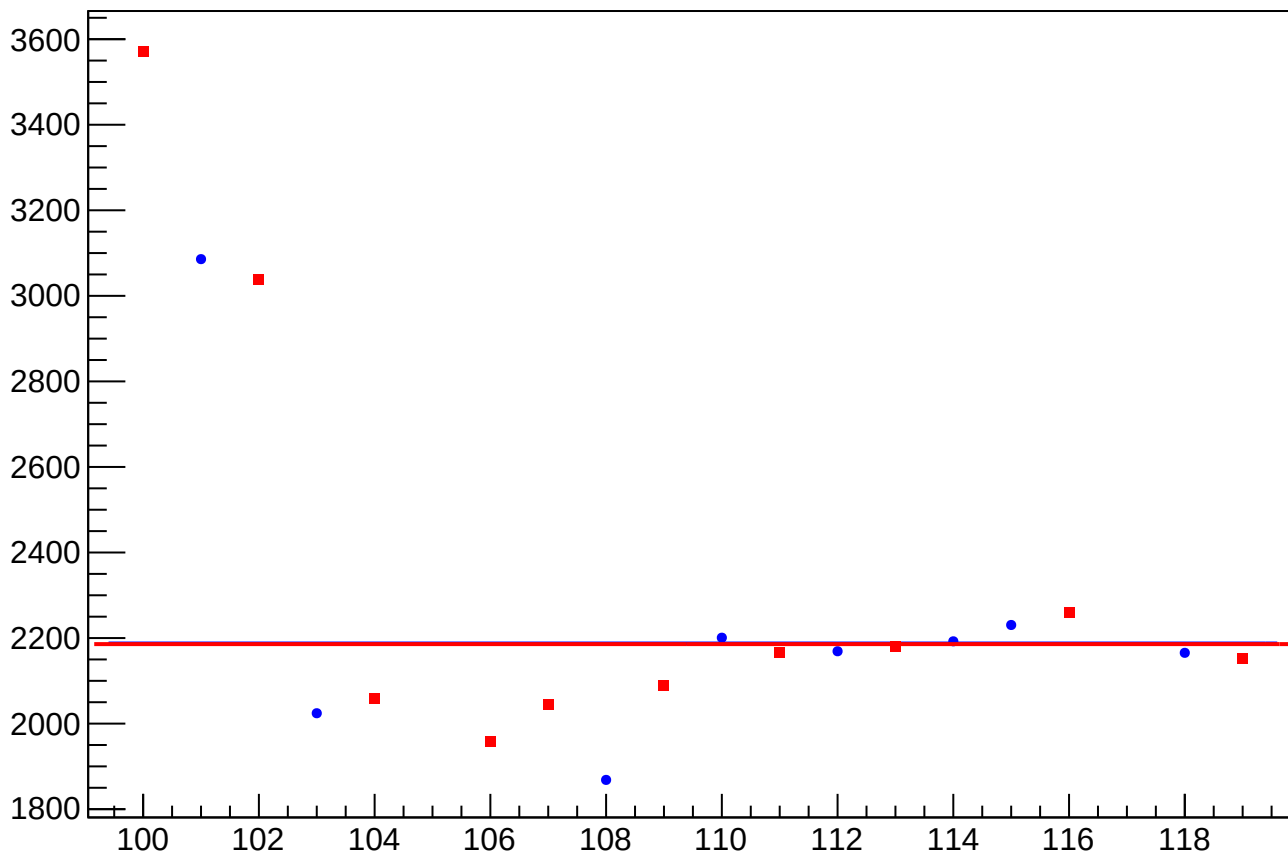
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 266.235 $\pm$ 824.765  $\chi^2$ /NDF: 37.5/17

- 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: 2187.213+/-0.861  $\chi^2/\text{NDF}$ : 140713.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2185.855+/-0.792  $\chi^2/\text{NDF}$ : 114025.9/9

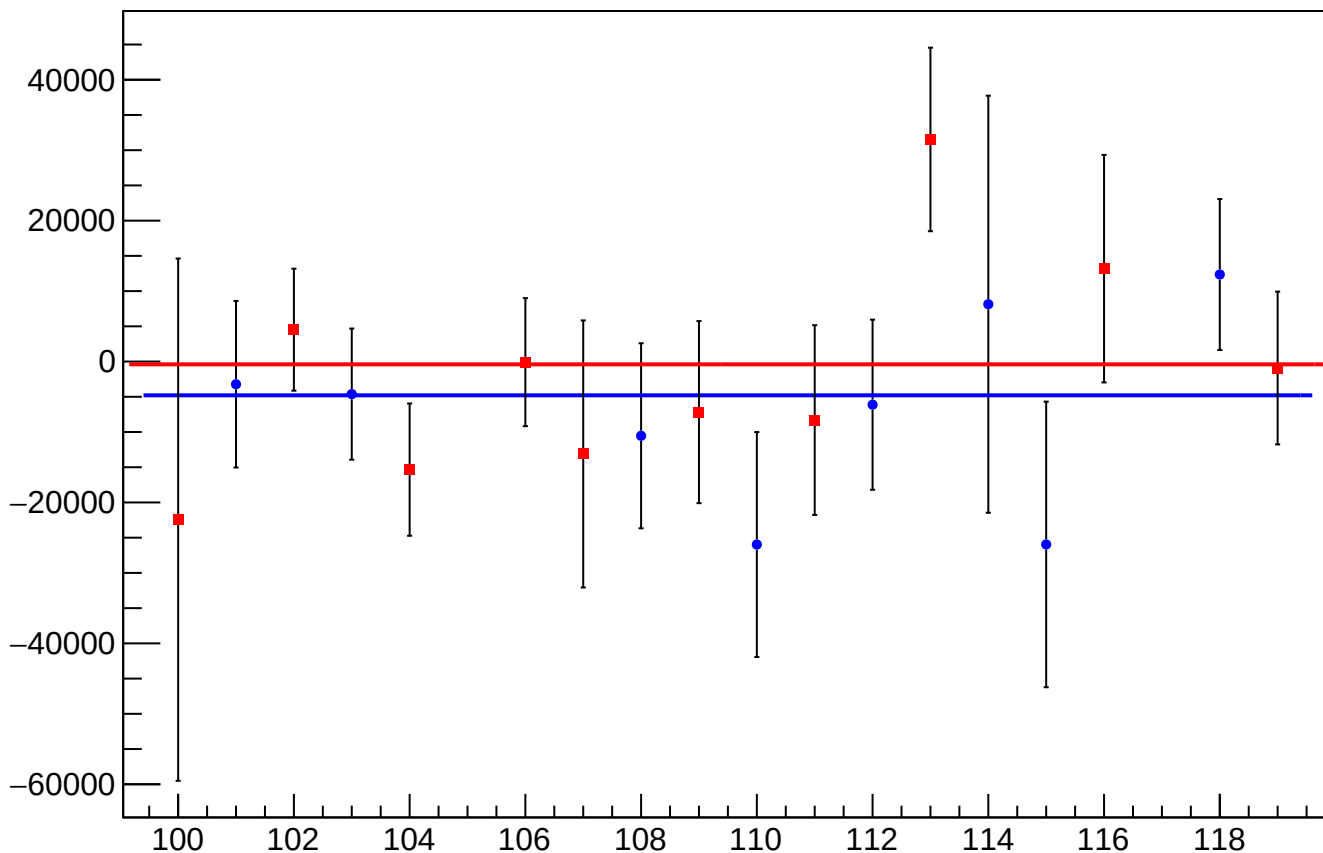
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2186.477+/-0.583  $\chi^2/\text{NDF}$ : 254740.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -4788.239+/-4585.440  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -396.116+/-3778.298  $\chi^2/\text{NDF}$ : 11.0/9

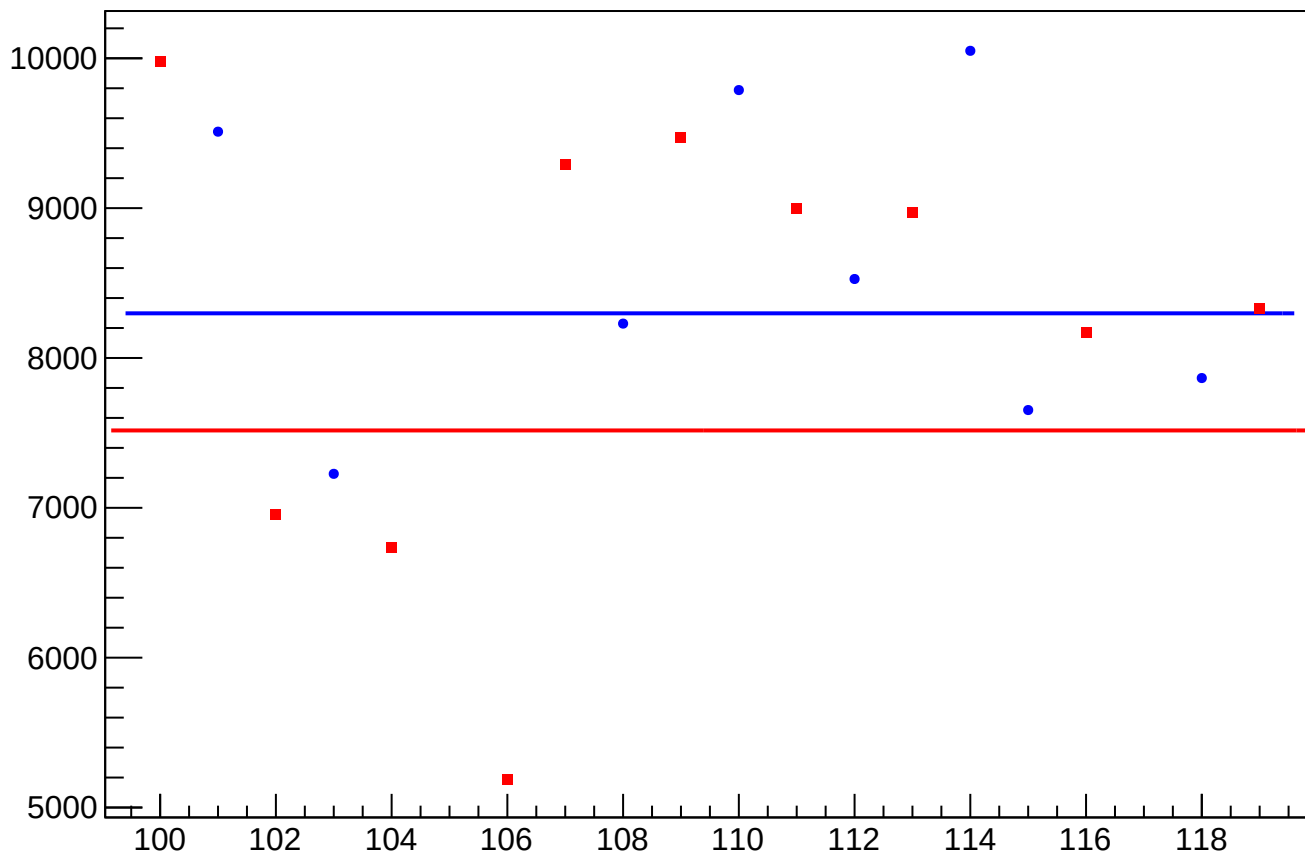
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2172.227+/-2915.942  $\chi^2/\text{NDF}$ : 17.4/17

- 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: 8297.994+/-3.242  $\chi^2/\text{NDF}$ : 78004.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7516.420+/-2.672  $\chi^2/\text{NDF}$ : 289567.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

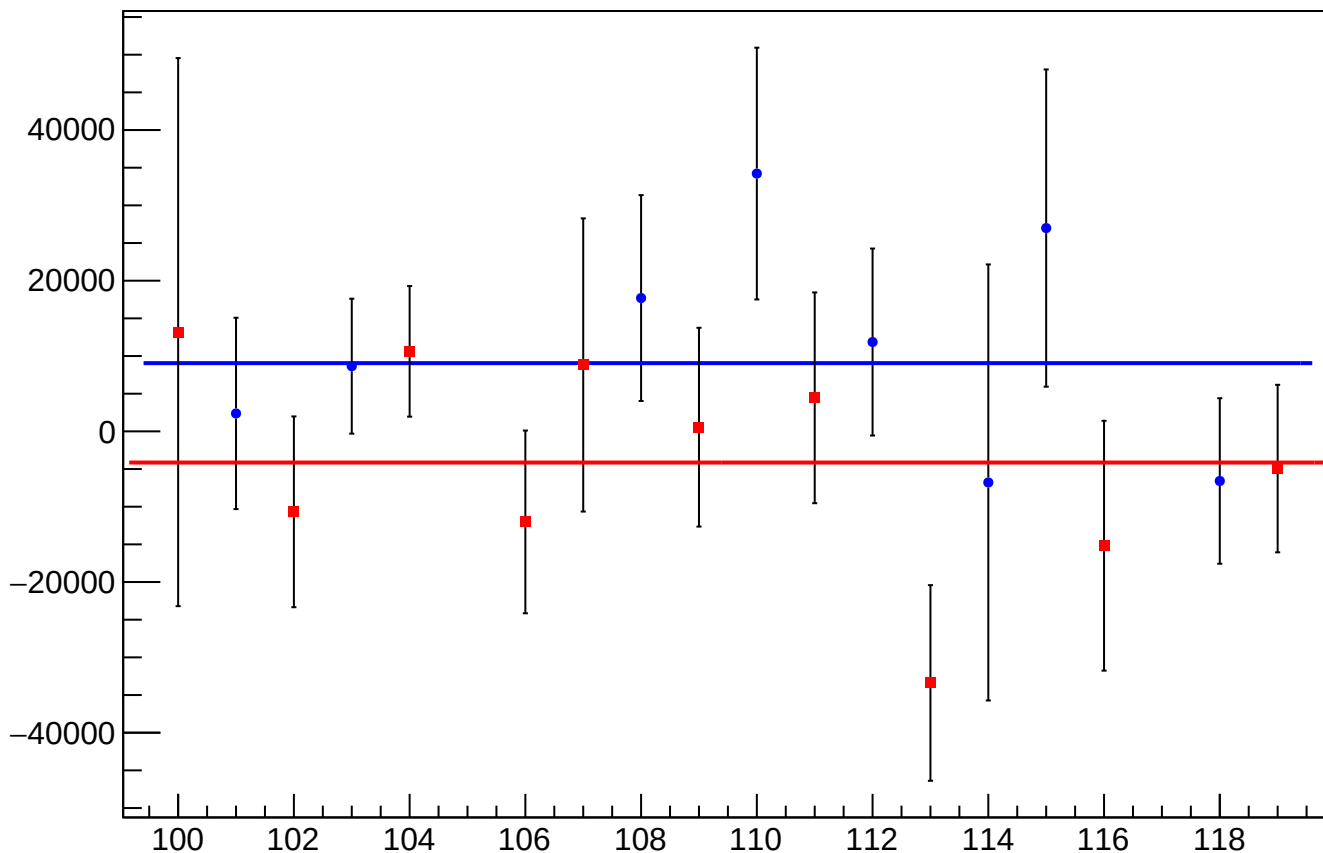
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7832.477+/-2.062  $\chi^2/\text{NDF}$ : 402179.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug



Right In: 9057.994+/-4671.063  $\chi^2/\text{NDF}$ : 6.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4137.474+/-4143.535  $\chi^2/\text{NDF}$ : 10.3/9

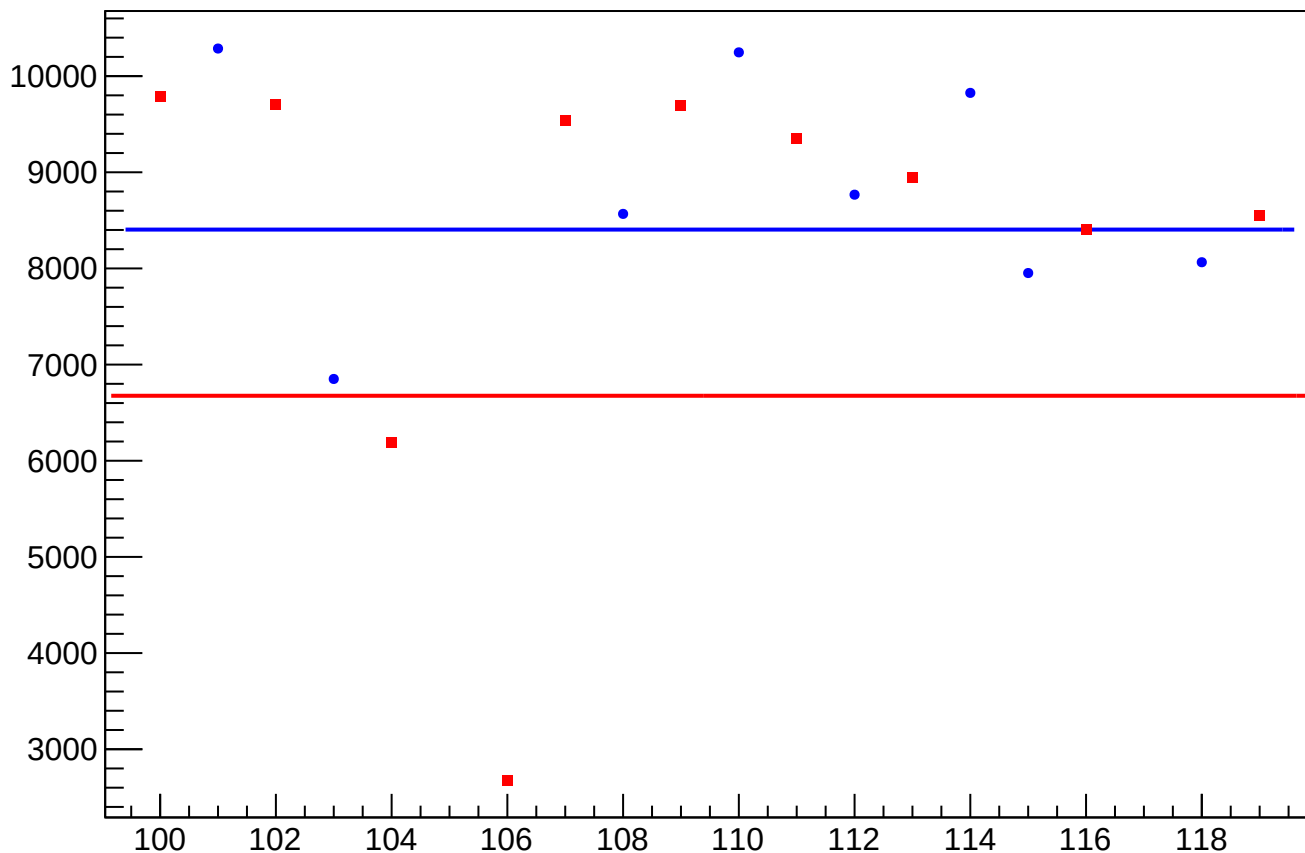
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1673.368+/-3099.723  $\chi^2/\text{NDF}$ : 20.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 8404.028+/-3.303  $\chi^2/\text{NDF}$ : 138093.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6675.811+/-2.608  $\chi^2/\text{NDF}$ : 1202795.4/9

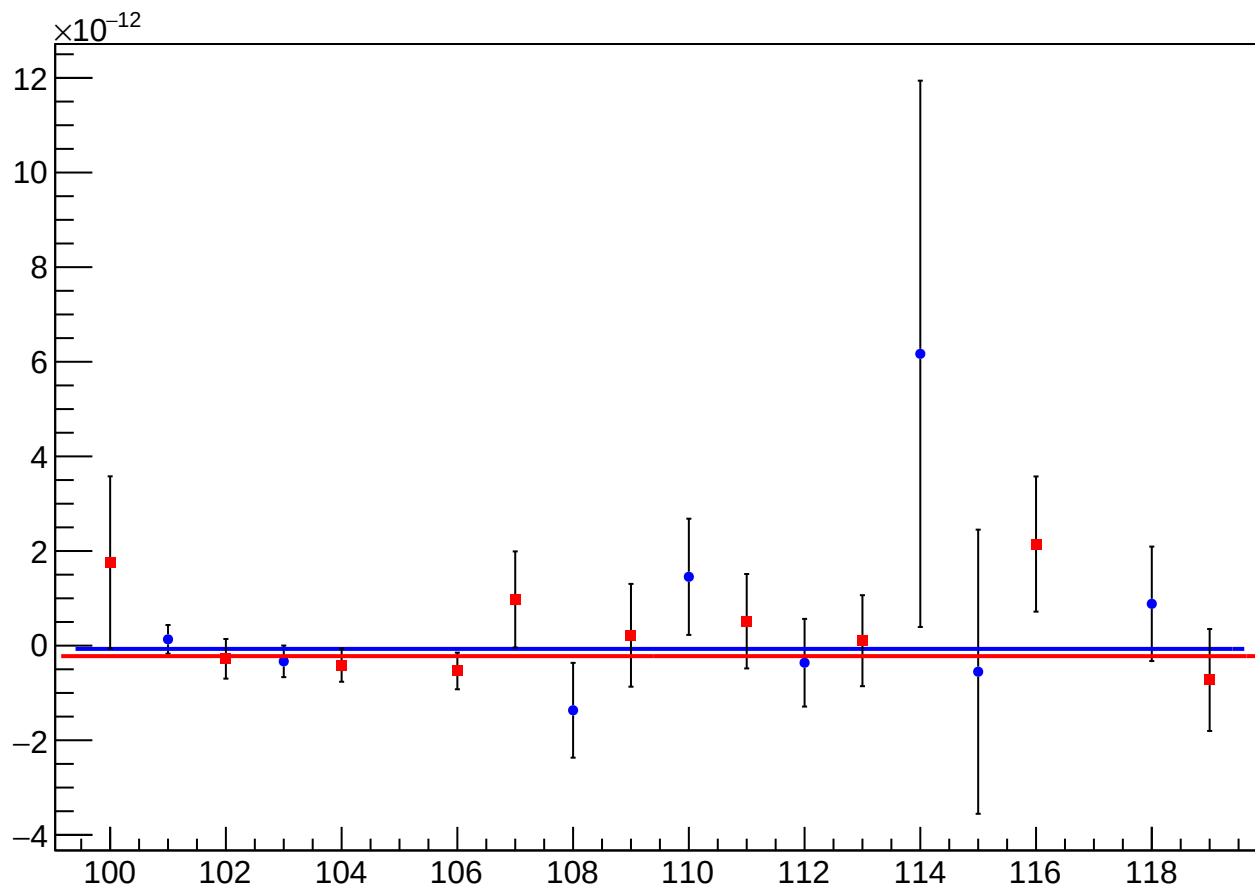
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7339.477+/-2.047  $\chi^2/\text{NDF}$ : 1509537.4/17

- 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  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.3/9

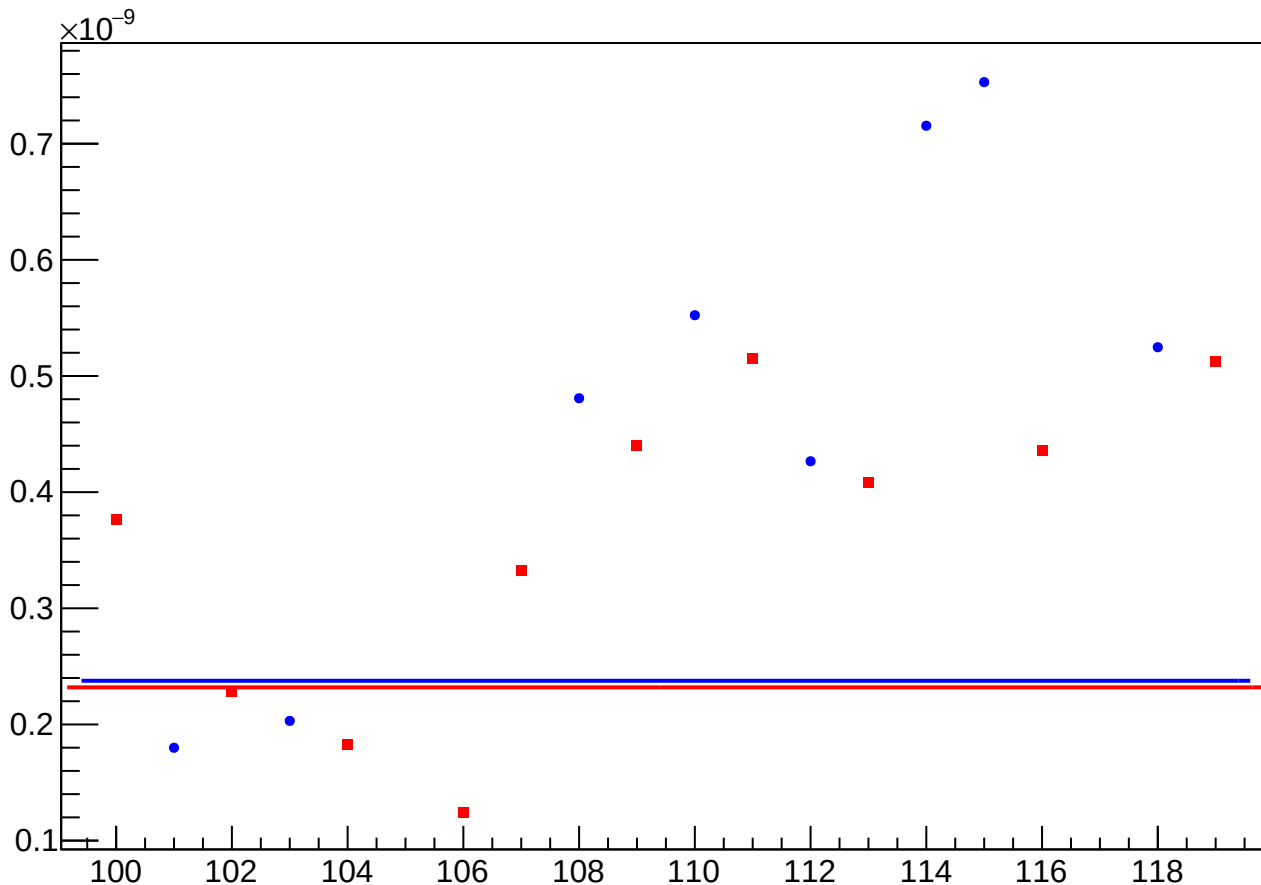
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.8/17

- 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  $\chi^2/\text{NDF}$ : 611492.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 704371.2/9

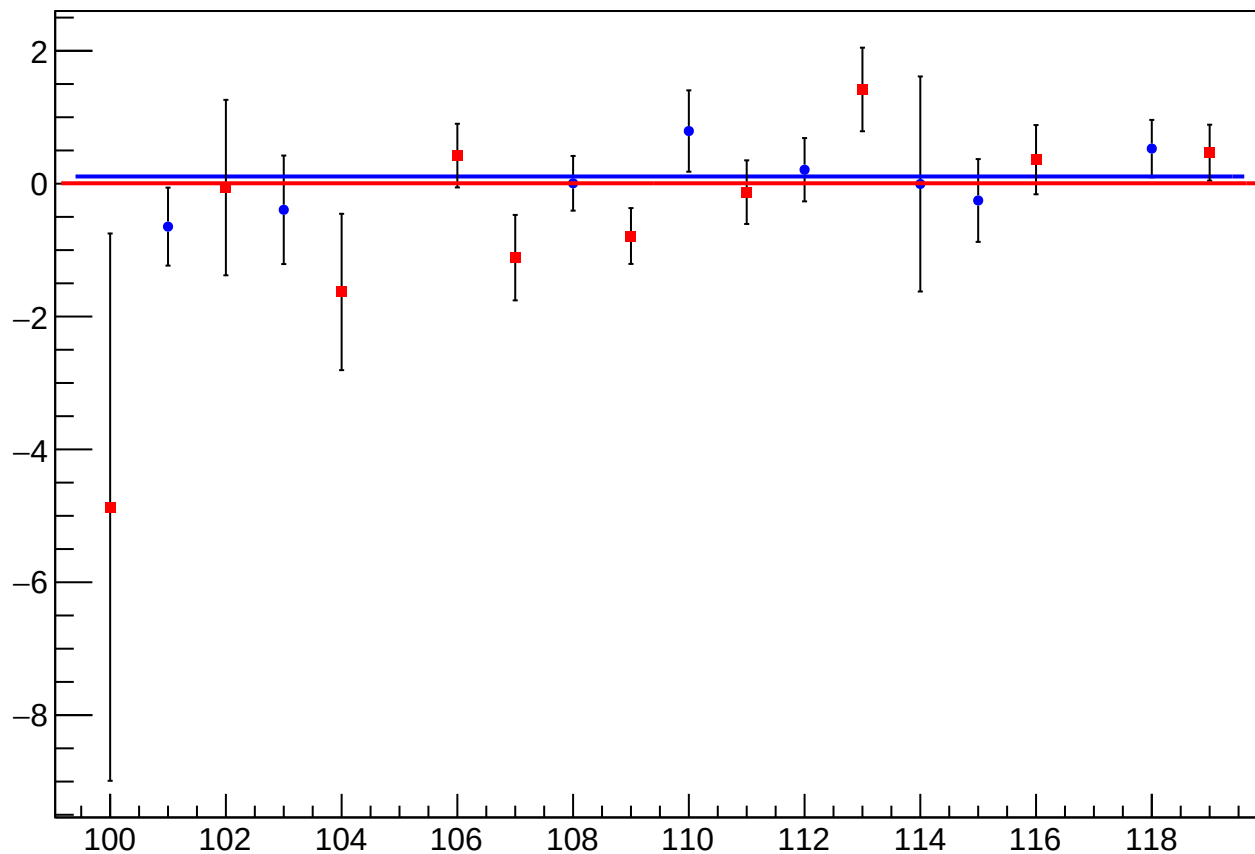
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1316657.2/17

- 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: 0.108 $\pm$ 0.197  $\chi^2$ /NDF: 4.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.006 $\pm$ 0.183  $\chi^2$ /NDF: 17.5/9

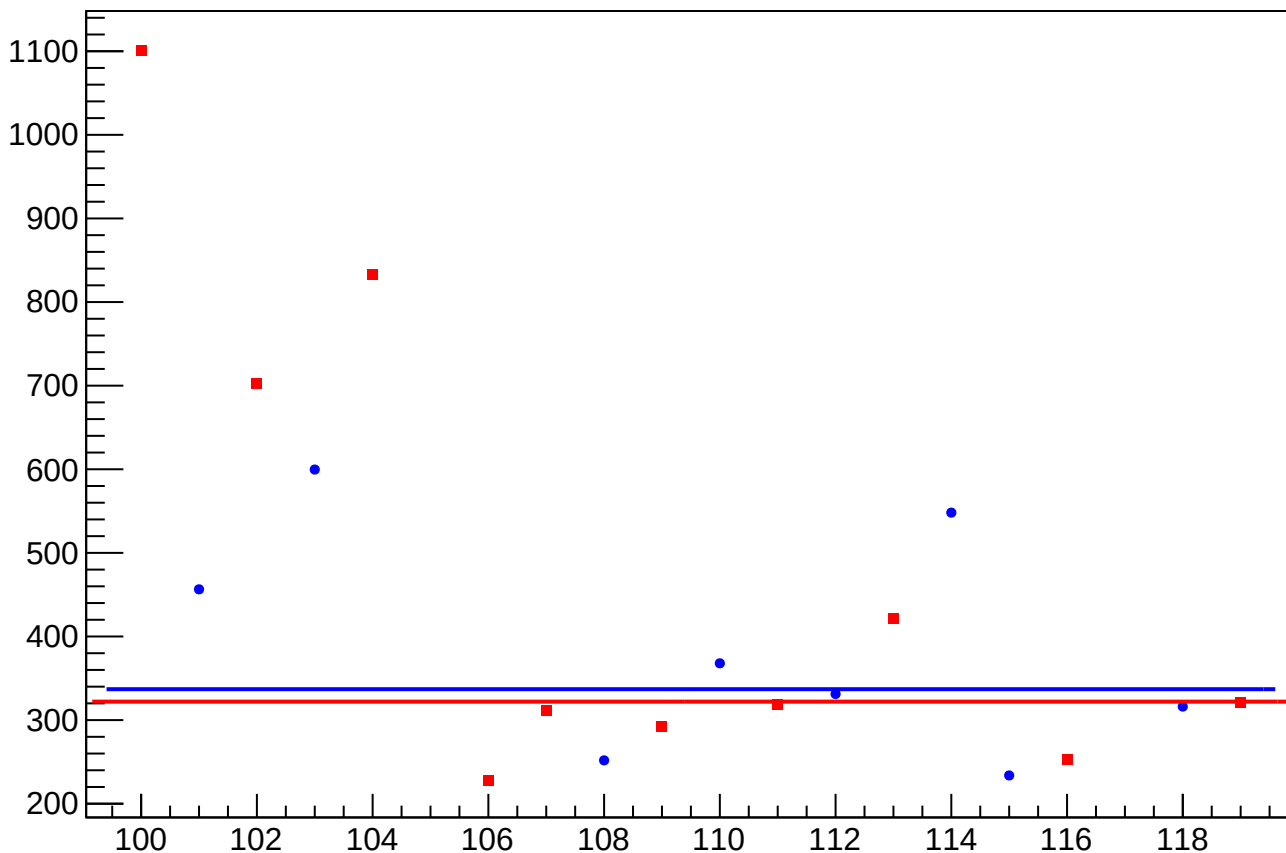
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.053 $\pm$ 0.134  $\chi^2$ /NDF: 22.3/17

- 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: 336.948 $\pm$ 0.140  $\chi^2$ /NDF: 474062.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 322.085 $\pm$ 0.129  $\chi^2$ /NDF: 788328.8/9

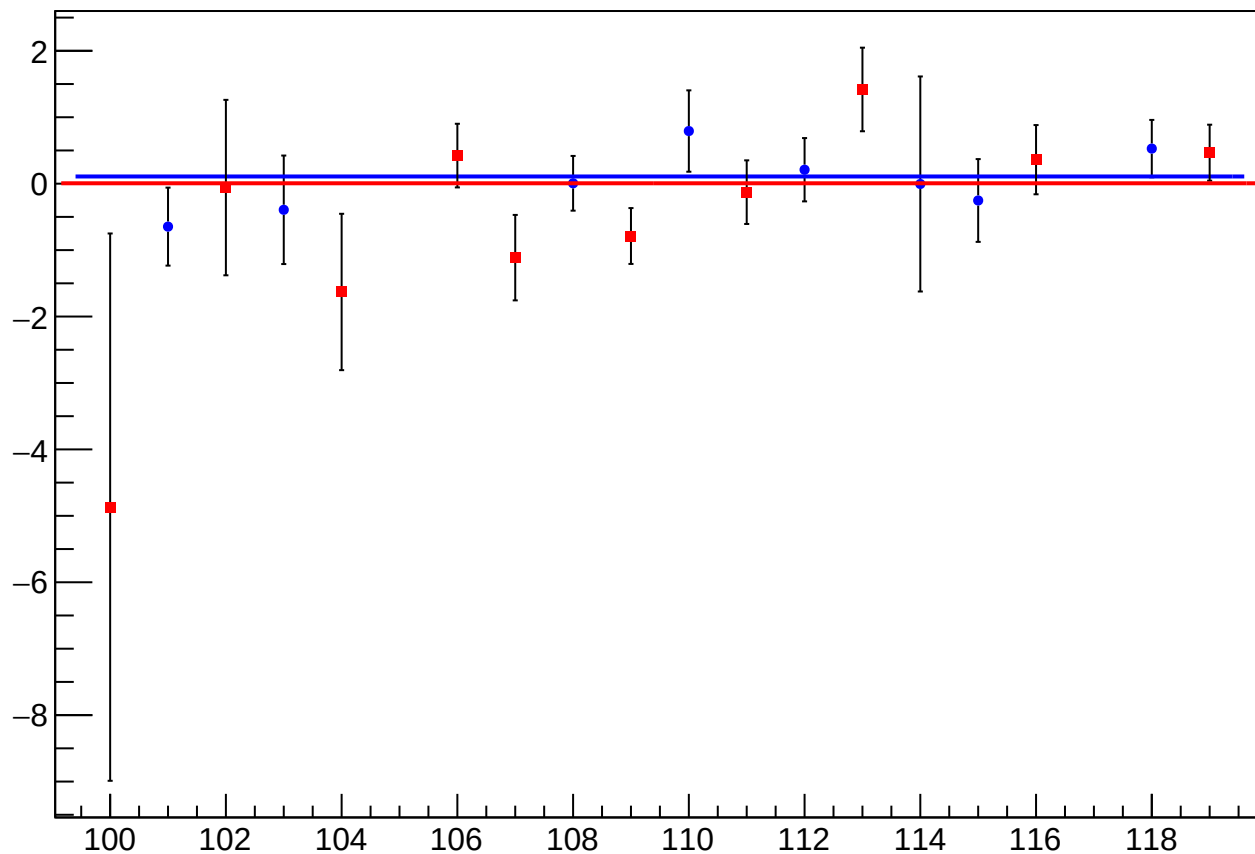
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 328.944 $\pm$ 0.095  $\chi^2$ /NDF: 1268503.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.108 $\pm$ 0.197  $\chi^2$ /NDF: 4.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.006 $\pm$ 0.183  $\chi^2$ /NDF: 17.5/9

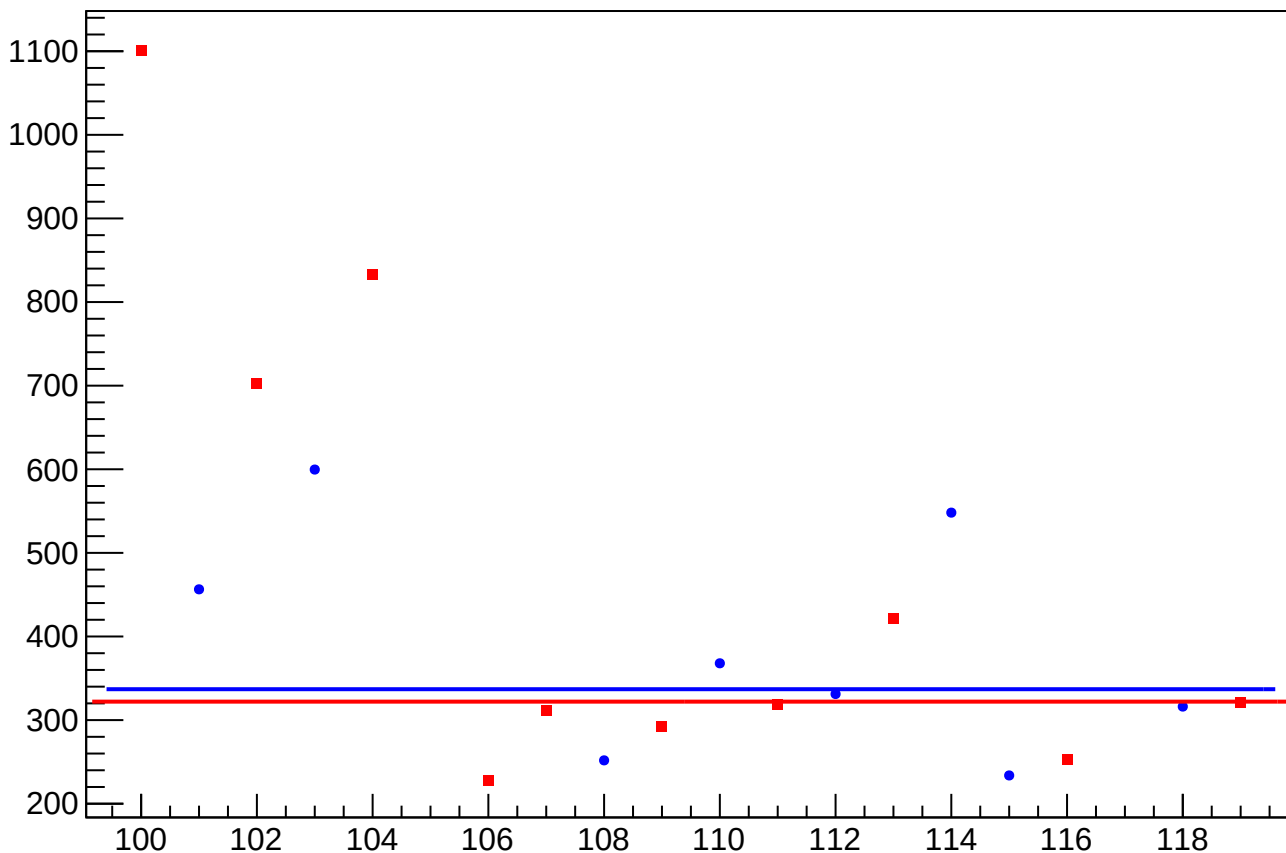
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.053 $\pm$ 0.134  $\chi^2$ /NDF: 22.3/17

- 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: 336.948+/-0.140  $\chi^2/\text{NDF}$ : 474062.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 322.085+/-0.129  $\chi^2/\text{NDF}$ : 788328.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

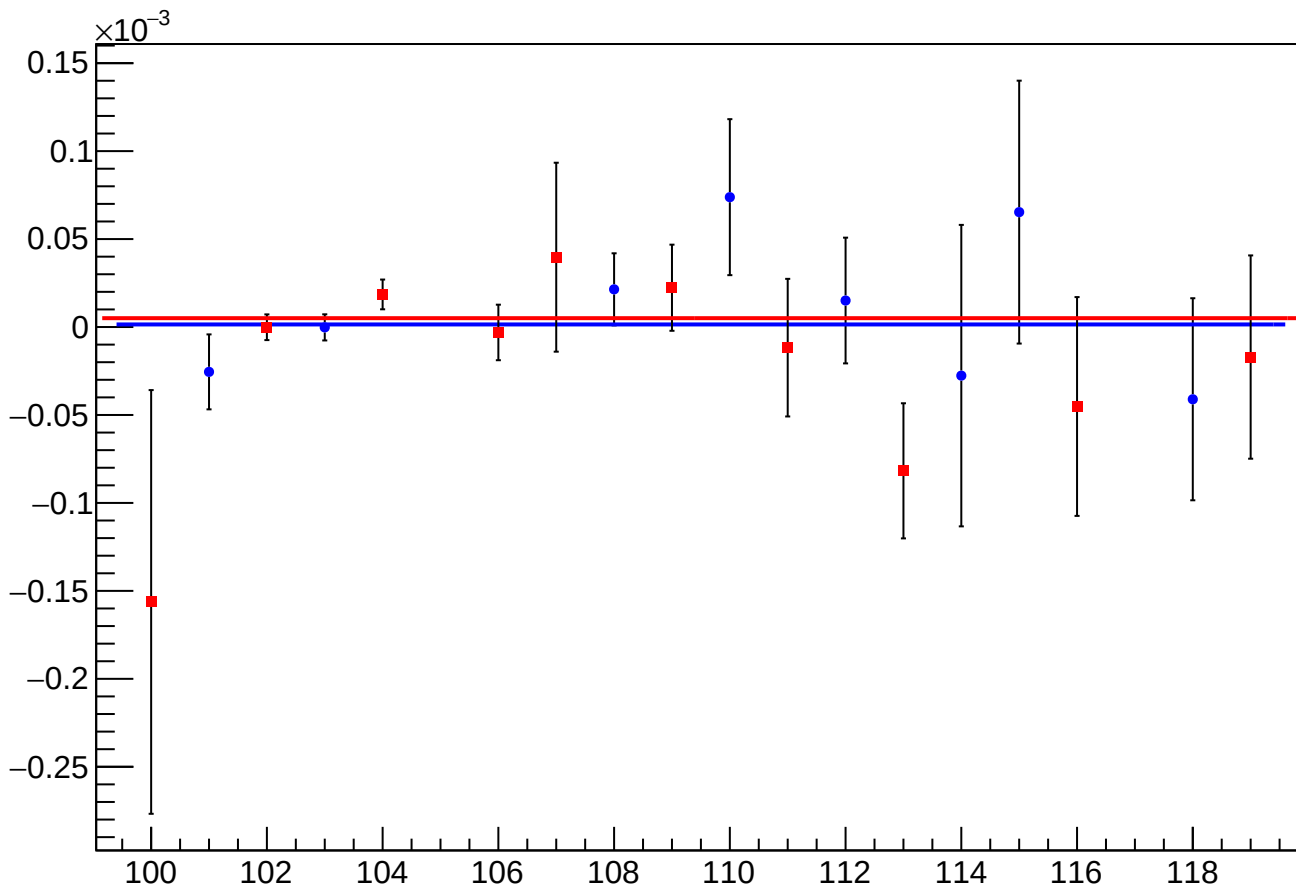
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 328.944+/-0.095  $\chi^2/\text{NDF}$ : 1268503.8/17

- 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: 6.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.1/9

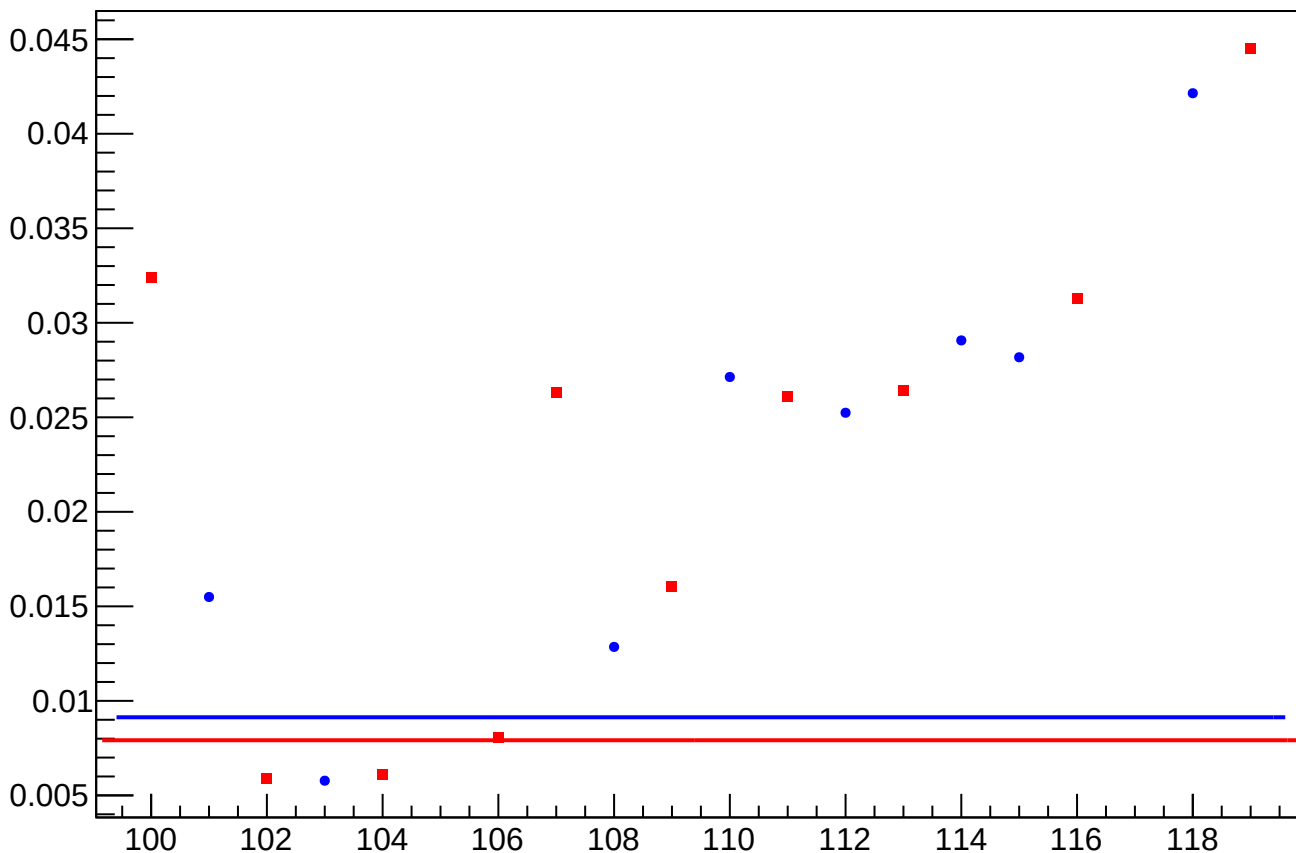
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.1/17

- 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: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 2287275.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 2771684.2/9

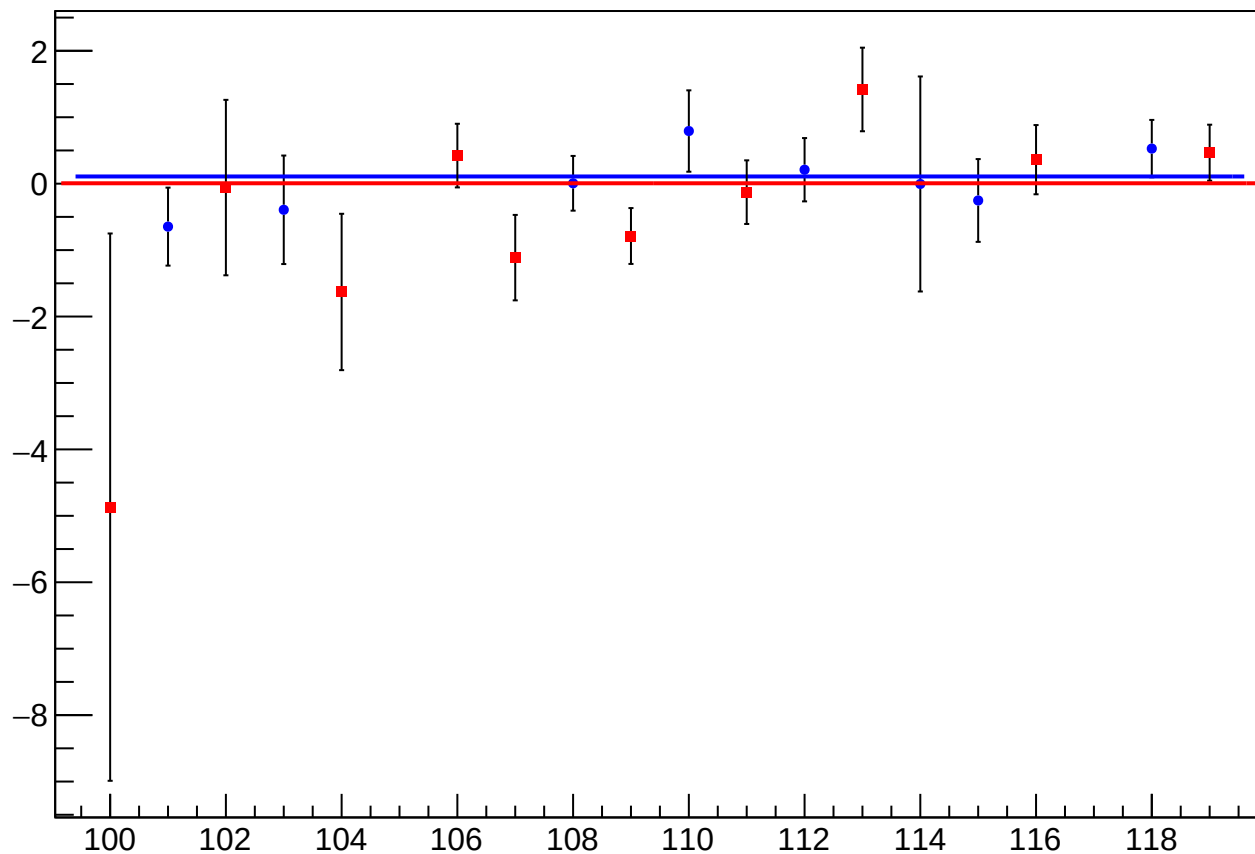
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 5104274.4/17

- 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: 0.108 $\pm$ 0.197  $\chi^2$ /NDF: 4.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.006 $\pm$ 0.183  $\chi^2$ /NDF: 17.5/9

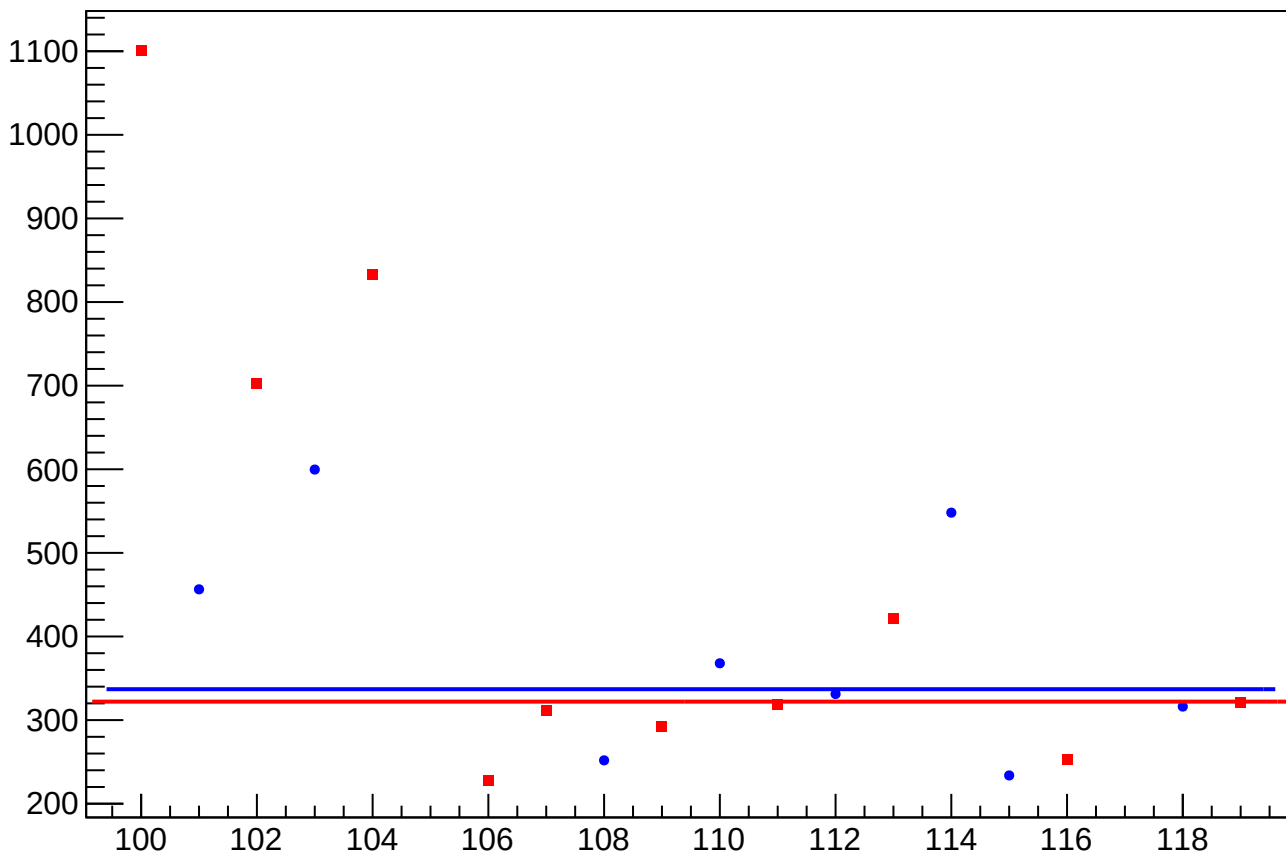
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.053 $\pm$ 0.134  $\chi^2$ /NDF: 22.3/17

- 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: 336.949 $\pm$ 0.140  $\chi^2$ /NDF: 474043.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 322.087 $\pm$ 0.129  $\chi^2$ /NDF: 788310.6/9

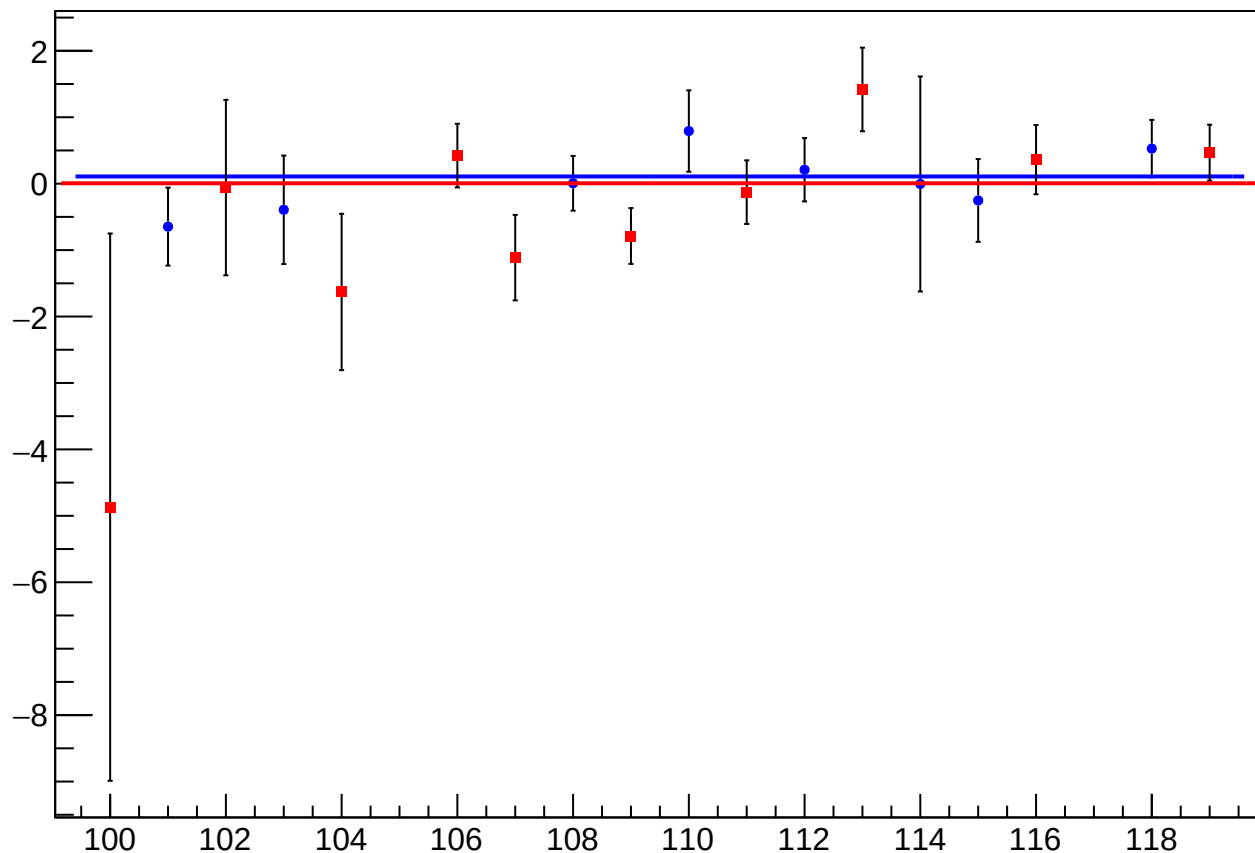
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 328.945 $\pm$ 0.095  $\chi^2$ /NDF: 1268466.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.108 $\pm$ 0.197  $\chi^2$ /NDF: 4.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.006 $\pm$ 0.183  $\chi^2$ /NDF: 17.5/9

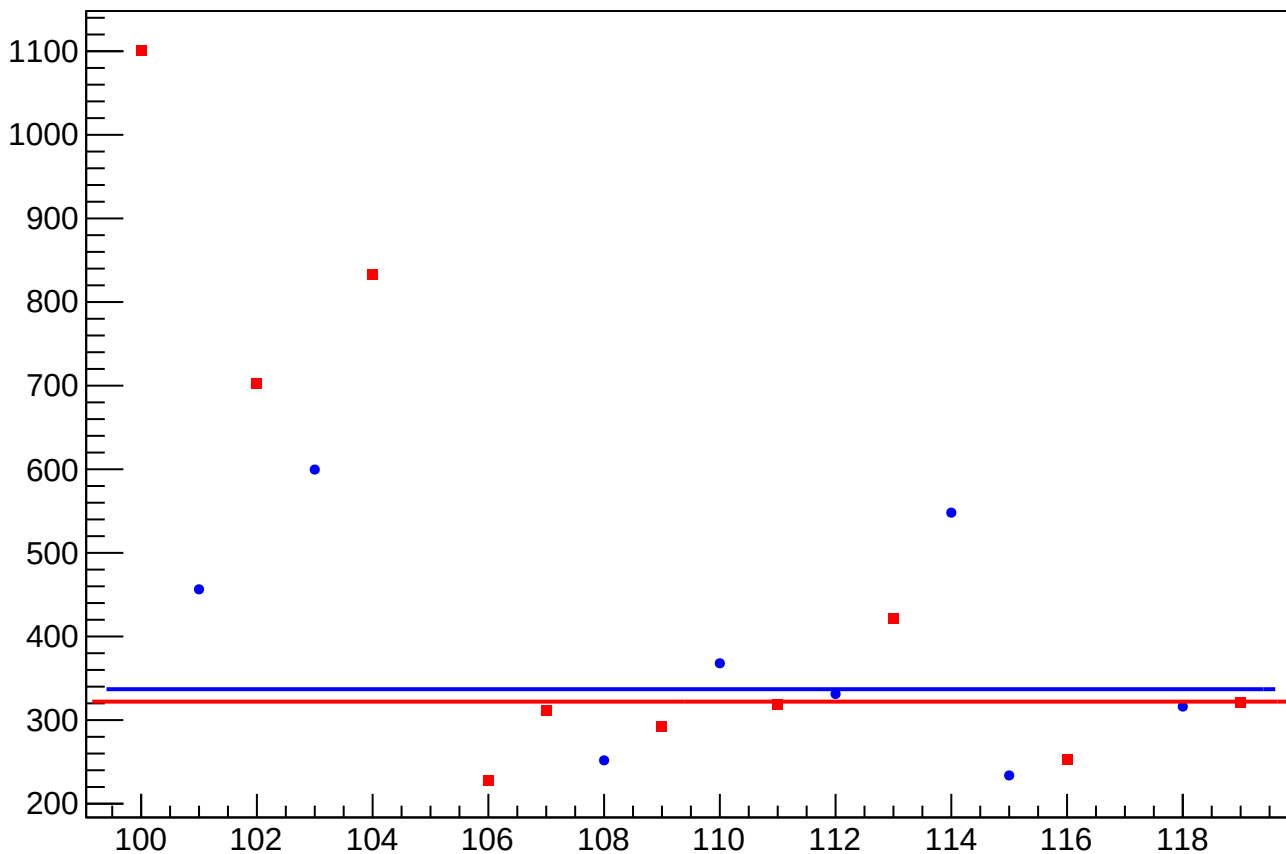
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.053 $\pm$ 0.134  $\chi^2$ /NDF: 22.3/17

- 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: 336.949+/-0.140  $\chi^2/\text{NDF}$ : 474043.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 322.087+/-0.129  $\chi^2/\text{NDF}$ : 788310.6/9

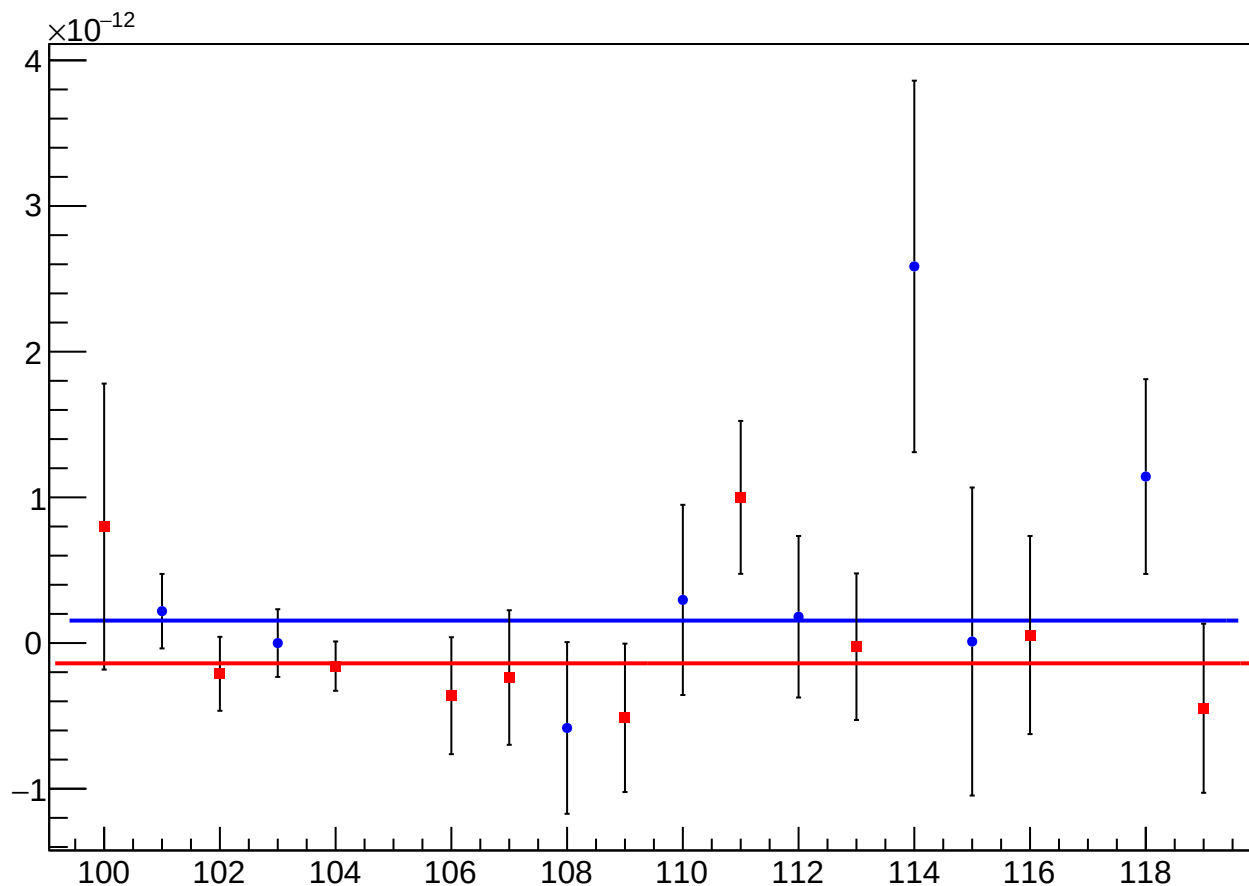
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 328.945+/-0.095  $\chi^2/\text{NDF}$ : 1268466.1/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 8.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.0/9

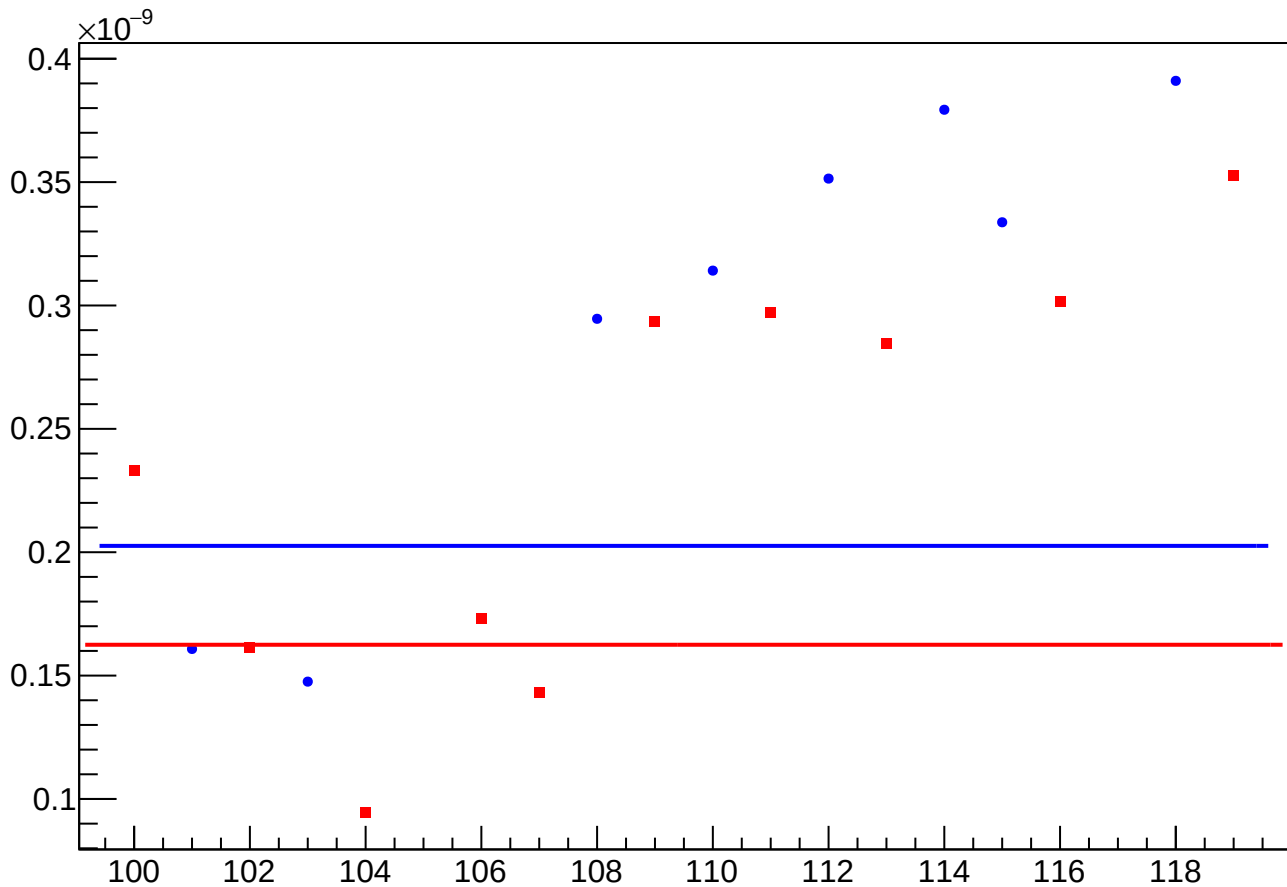
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 645158.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1018781.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

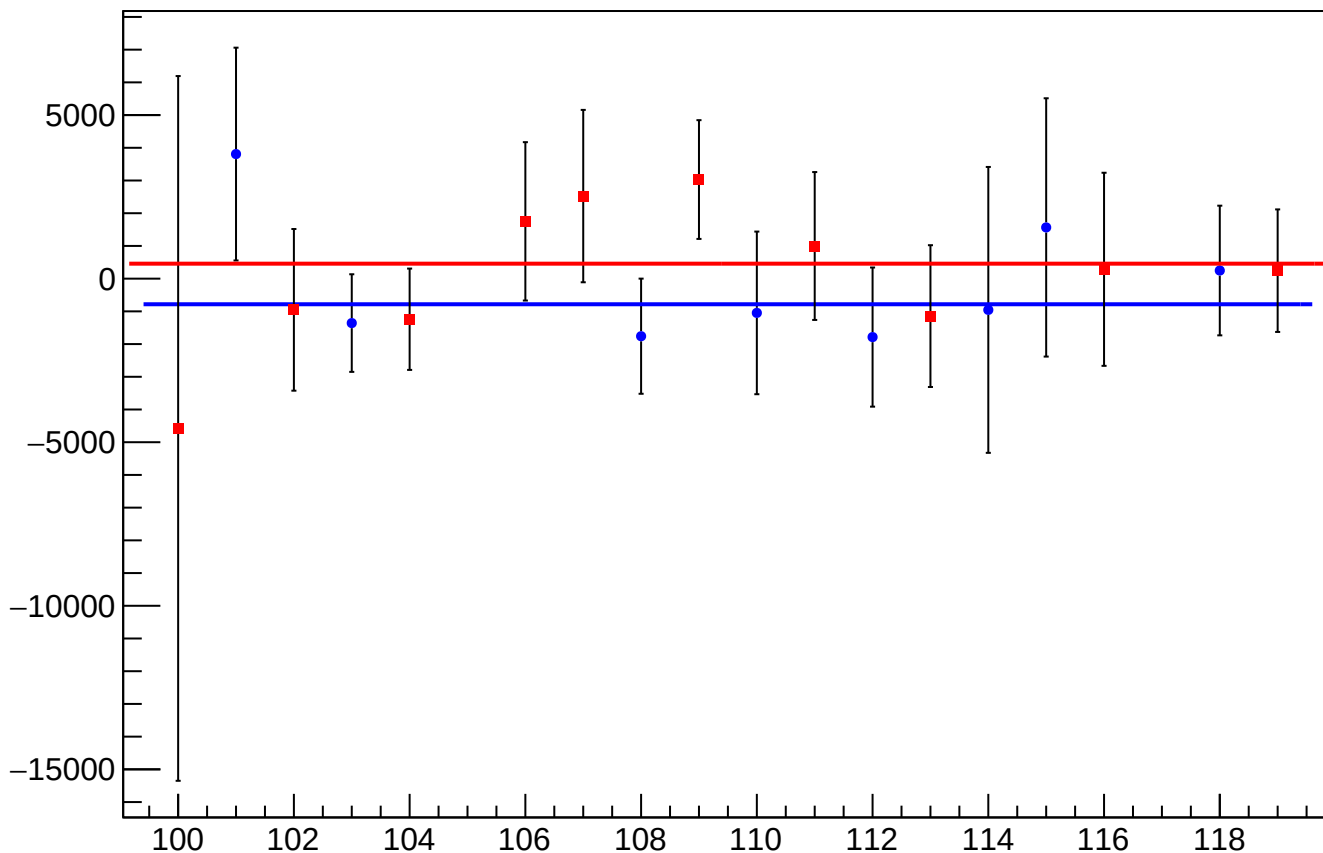
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1757364.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In: -782.851+/-785.503  $\chi^2/\text{NDF}$ : 3.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 457.807+/-704.280  $\chi^2/\text{NDF}$ : 5.3/9

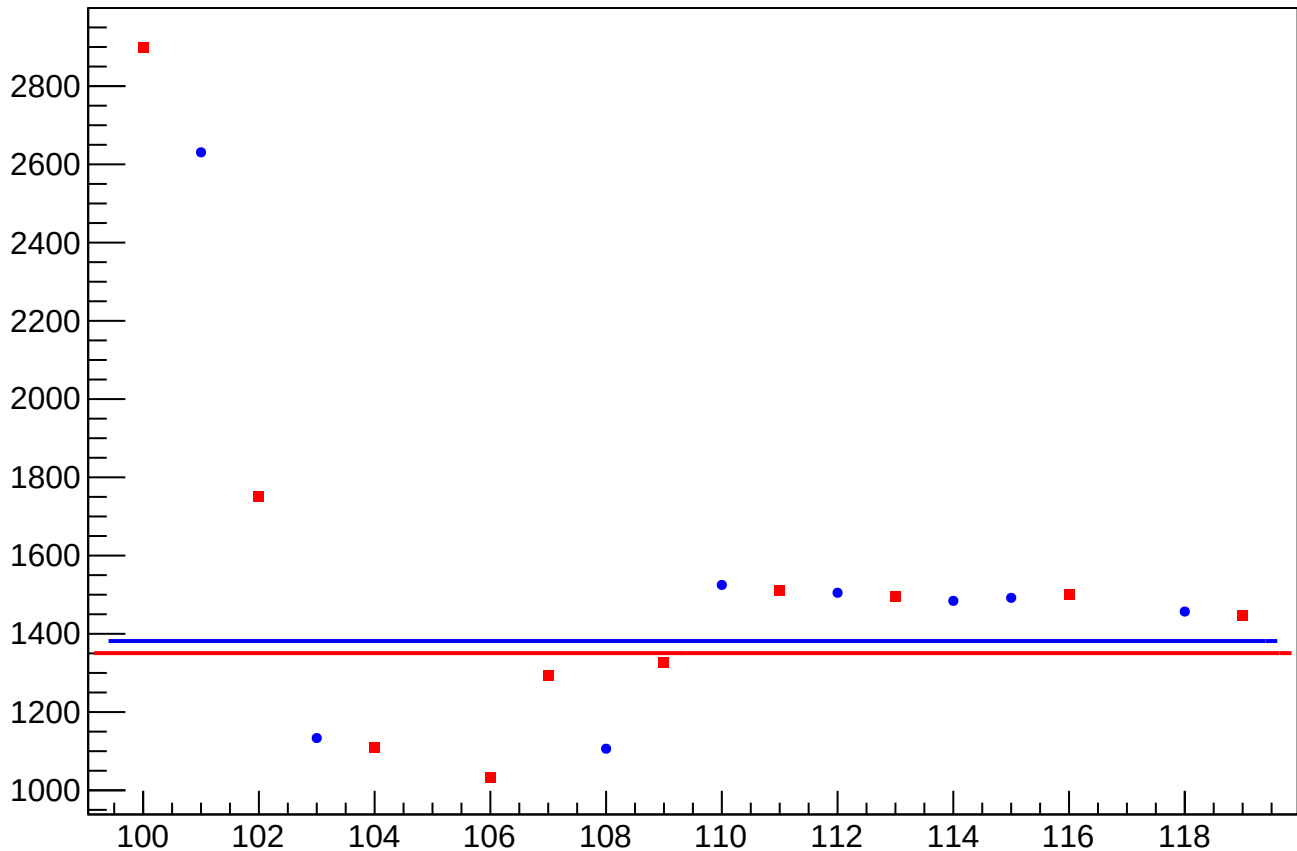
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -95.082+/-524.373  $\chi^2/\text{NDF}$ : 10.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1381.531+/-0.555  $\chi^2/\text{NDF}$ : 418194.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1350.635+/-0.492  $\chi^2/\text{NDF}$ : 217105.9/9

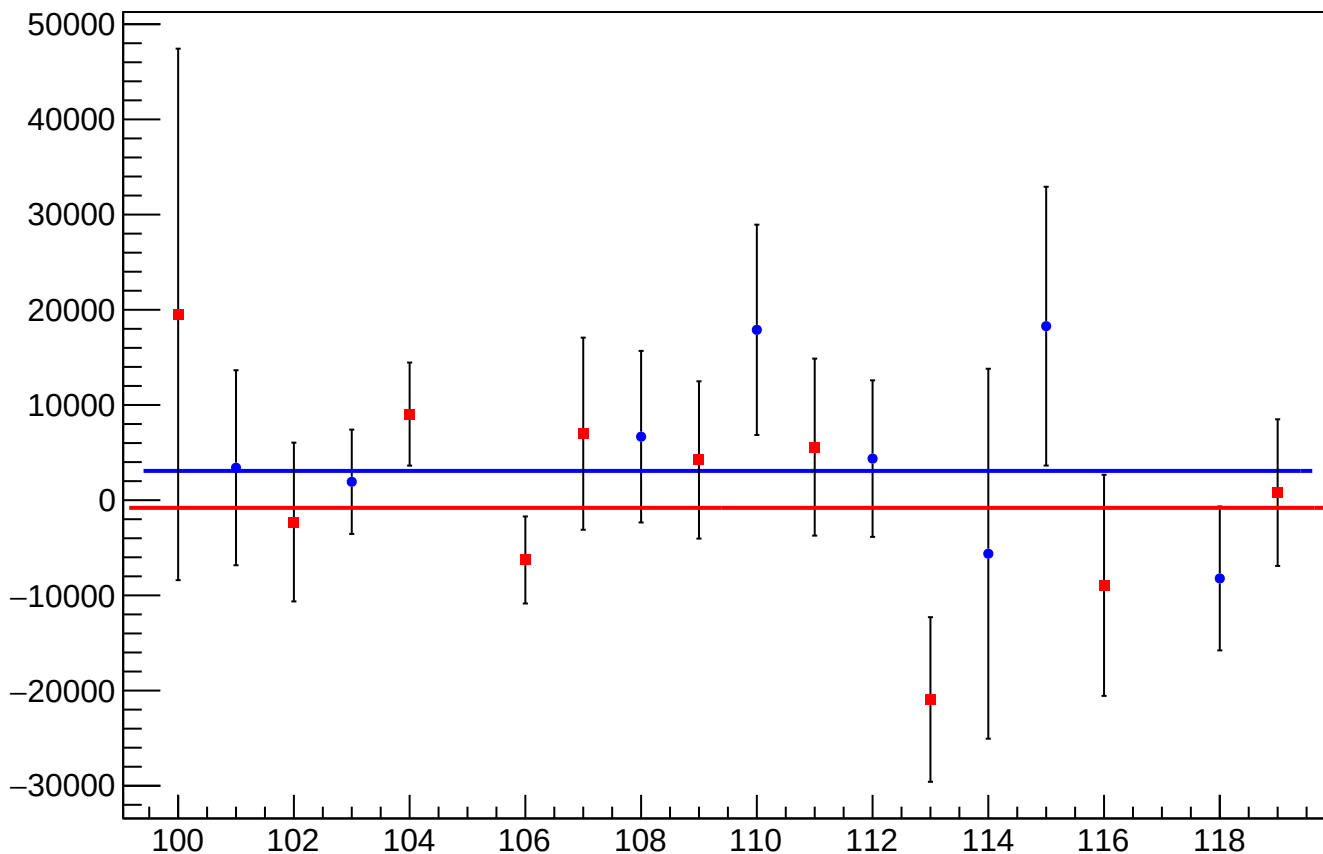
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1364.218+/-0.368  $\chi^2/\text{NDF}$ : 637034.3/17

- 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: 3075.234+/-3116.260  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -805.539+/-2415.993  $\chi^2/\text{NDF}$ : 12.7/9

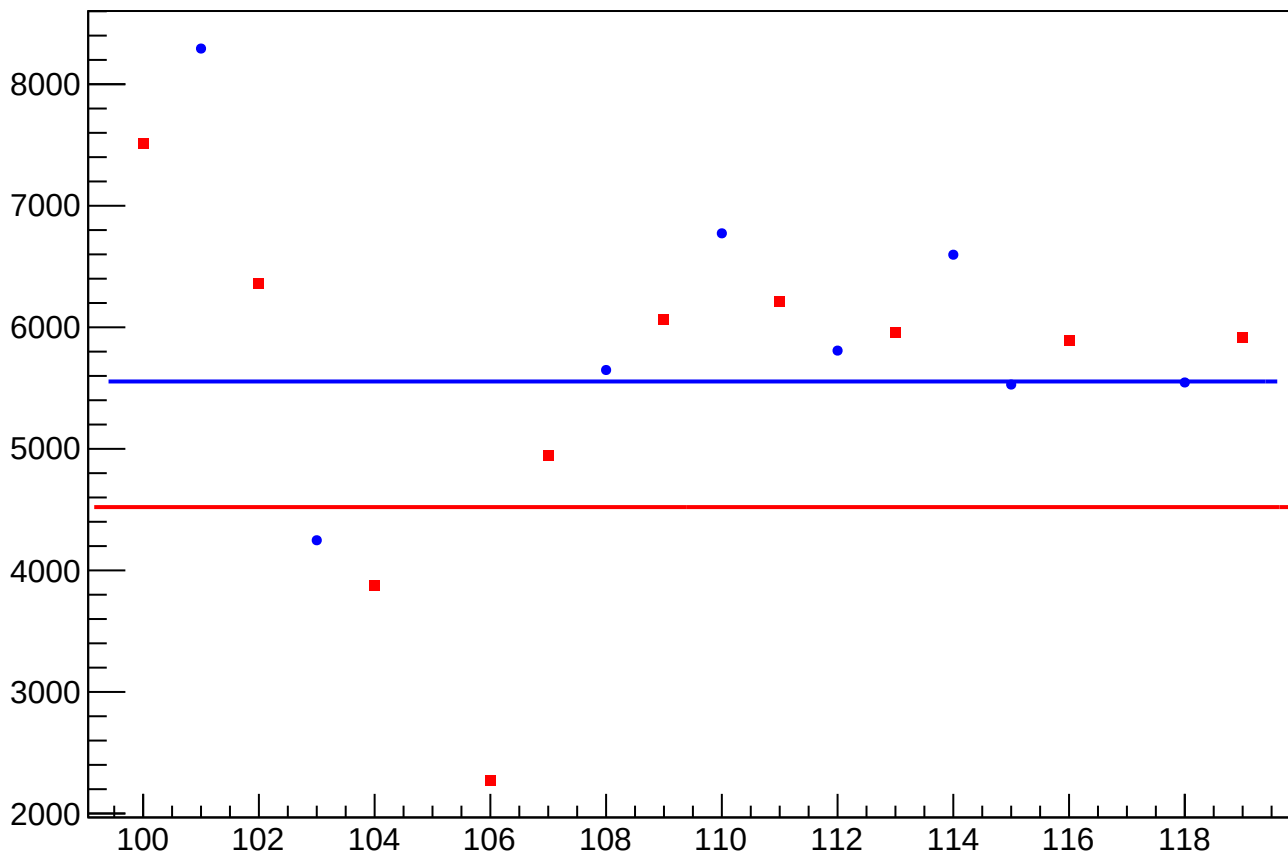
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 651.369+/-1909.373  $\chi^2/\text{NDF}$ : 19.2/17

- 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: 5554.366+/-2.204  $\chi^2/\text{NDF}$ : 289003.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4520.879+/-1.708  $\chi^2/\text{NDF}$ : 920120.2/9

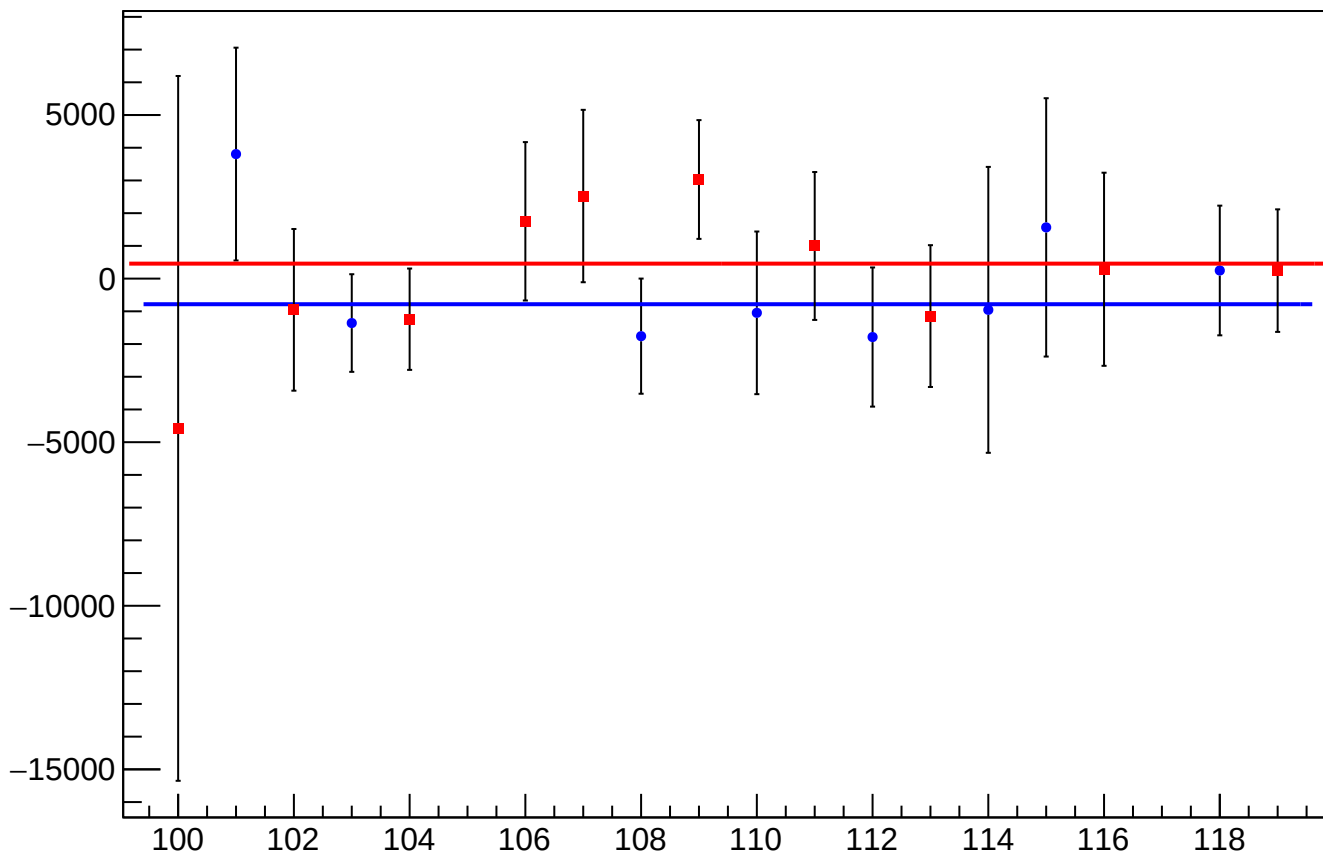
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4908.867+/-1.350  $\chi^2/\text{NDF}$ : 1346516.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In: -782.993+/-785.503  $\chi^2/\text{NDF}$ : 3.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 457.589+/-704.280  $\chi^2/\text{NDF}$ : 5.3/9

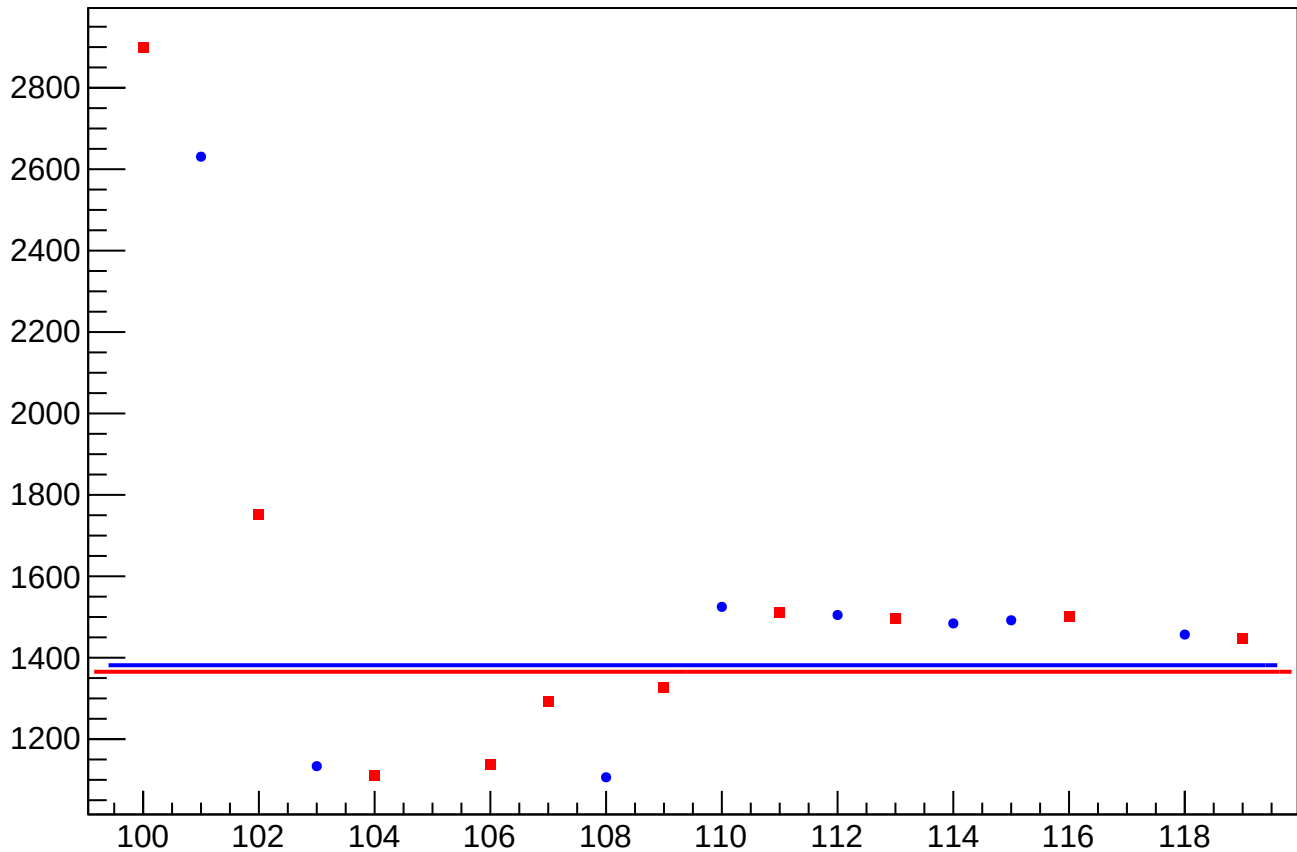
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -95.265+/-524.373  $\chi^2/\text{NDF}$ : 10.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1381.531+/-0.555  $\chi^2/\text{NDF}$ : 418194.6/7

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

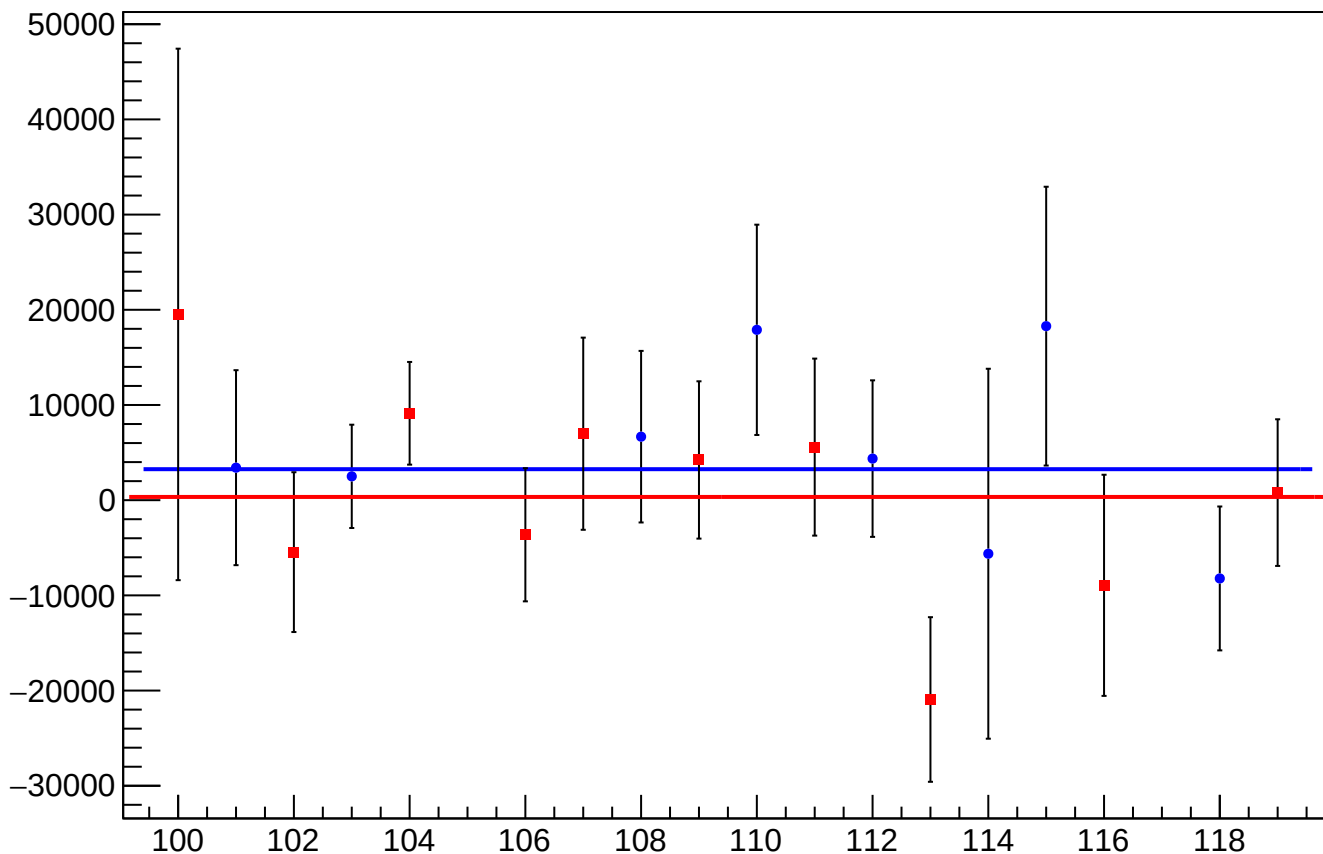
Right Out: 1365.496+/-0.496  $\chi^2/\text{NDF}$ : 188832.3/9

All: 1372.612+/-0.370  $\chi^2/\text{NDF}$ : 607490.5/17

- 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\_dd\_cor\_correction\_mean vs Slug



Right In: 3255.741+/-3106.508  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 339.791+/-2635.485  $\chi^2/\text{NDF}$ : 11.6/9

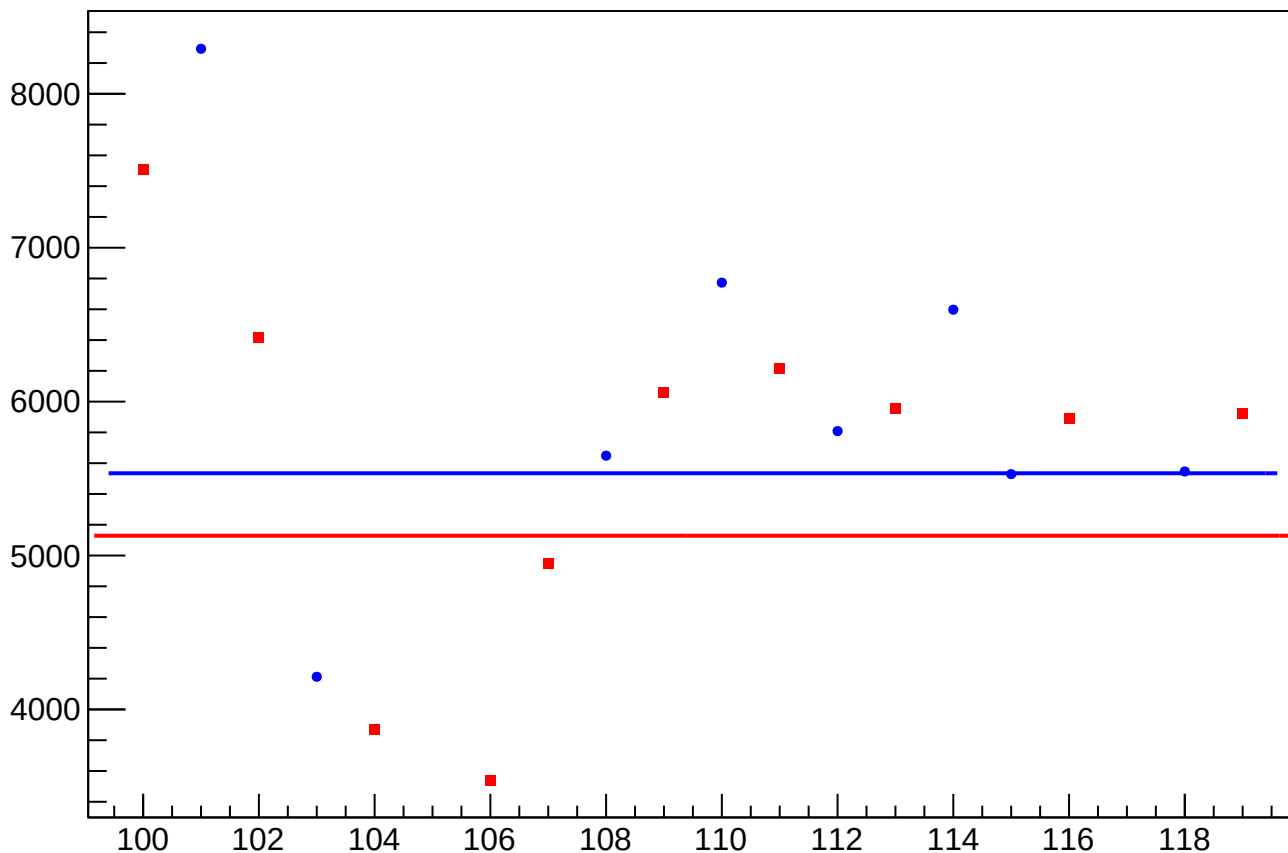
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1560.166+/-2009.690  $\chi^2/\text{NDF}$ : 17.6/17

- 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: 5534.470+/-2.197  $\chi^2/\text{NDF}$ : 297498.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5128.846+/-1.864  $\chi^2/\text{NDF}$ : 375416.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

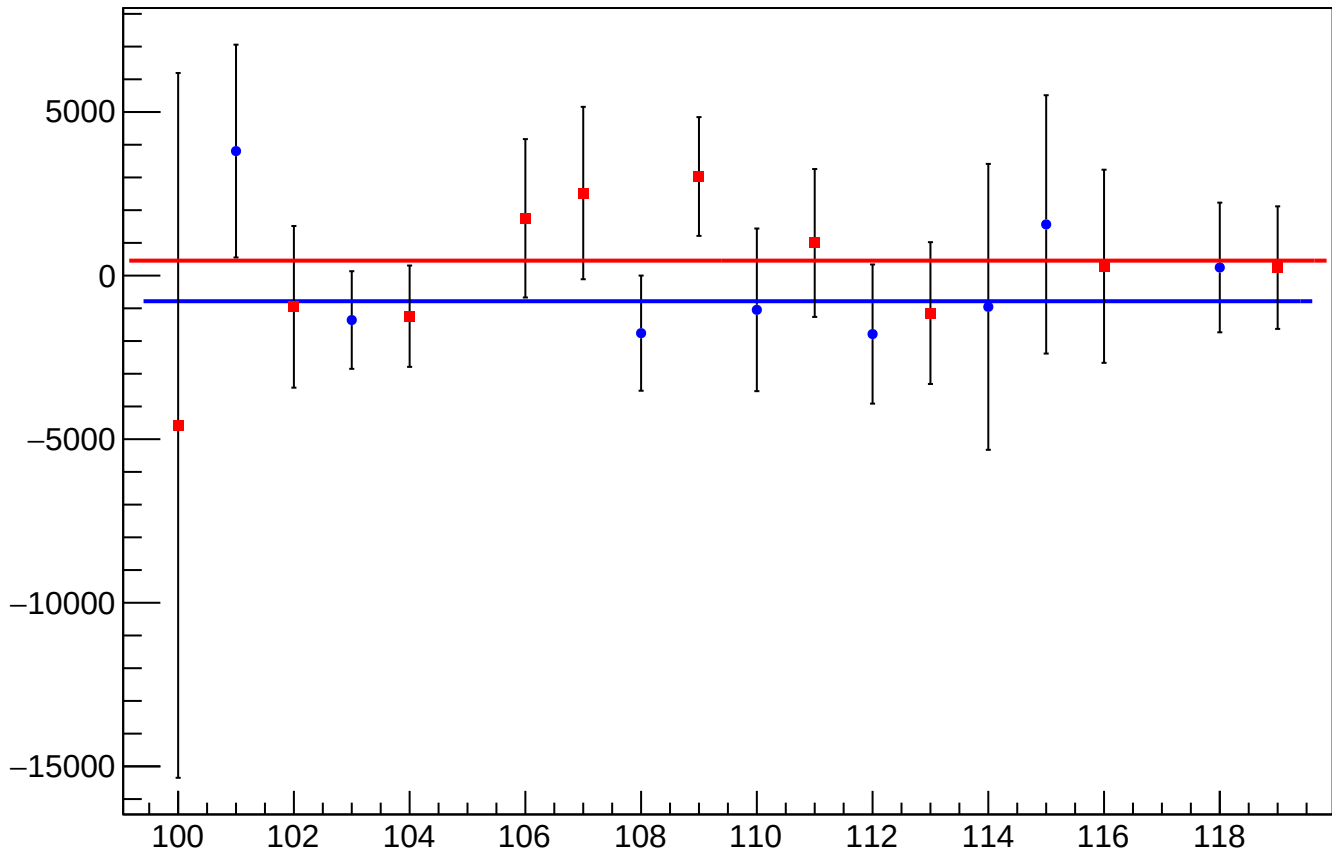
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5298.606+/-1.421  $\chi^2/\text{NDF}$ : 692743.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In: -782.993+/-785.503  $\chi^2/\text{NDF}$ : 3.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 457.589+/-704.280  $\chi^2/\text{NDF}$ : 5.3/9

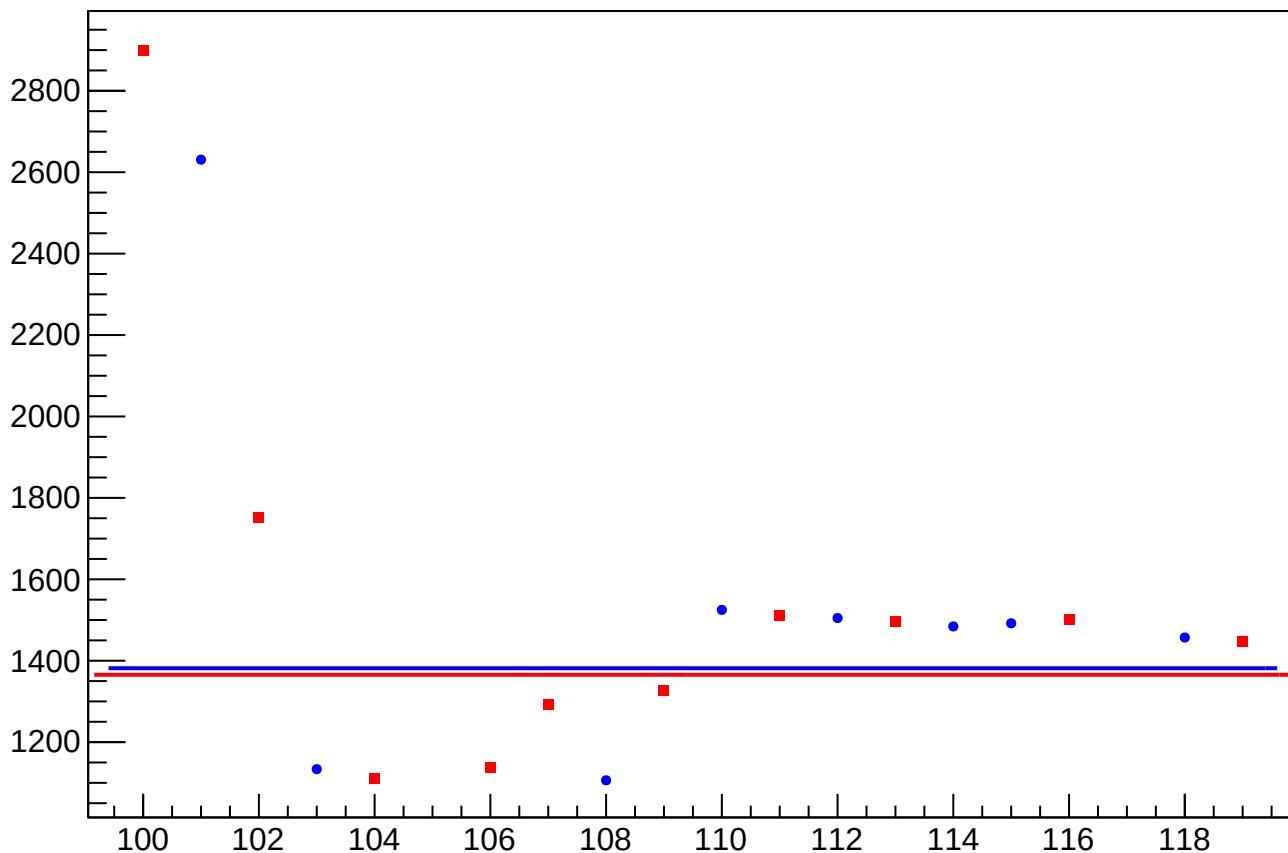
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -95.265+/-524.373  $\chi^2/\text{NDF}$ : 10.0/17

- 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: 1381.531+/-0.555  $\chi^2/\text{NDF}$ : 418194.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1365.496+/-0.496  $\chi^2/\text{NDF}$ : 188832.3/9

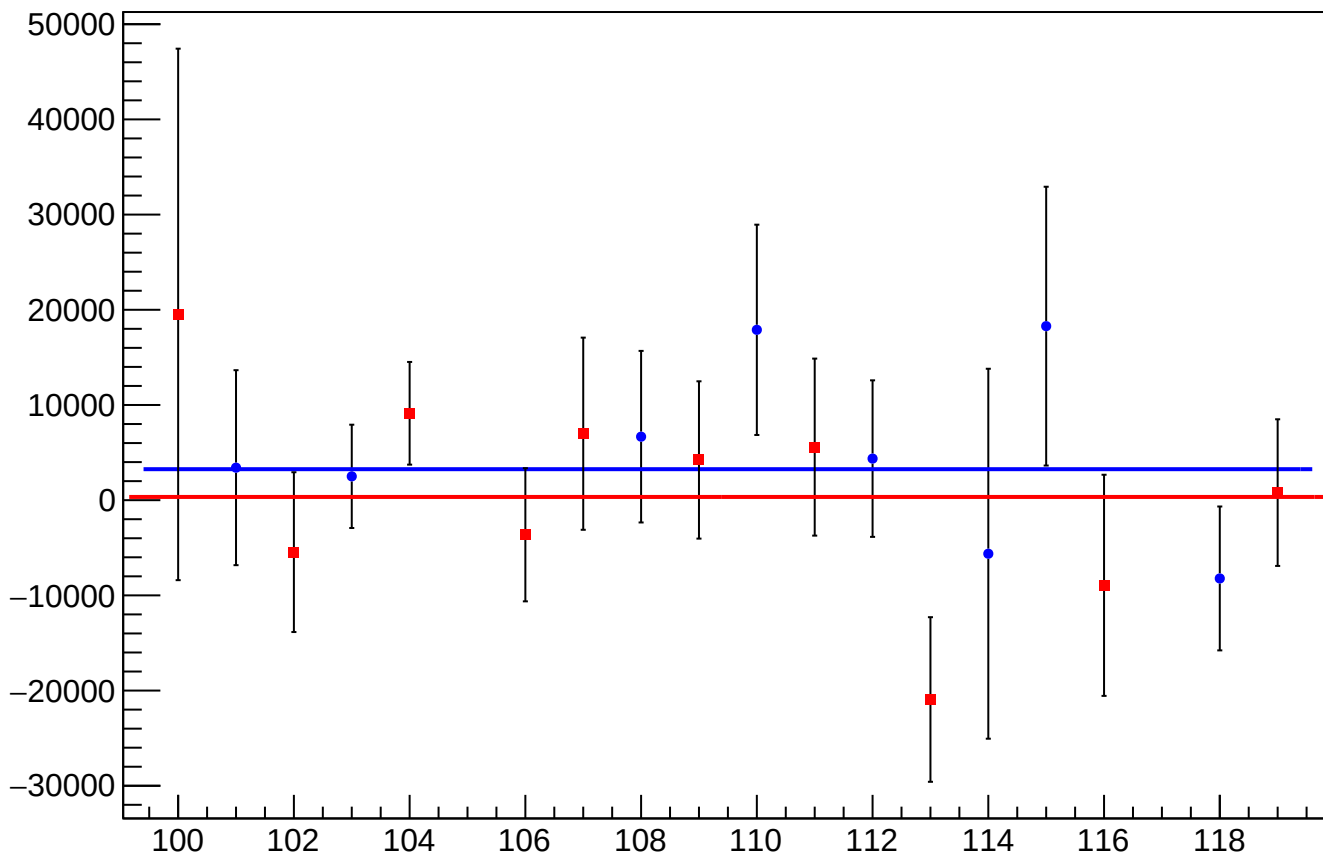
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1372.612+/-0.370  $\chi^2/\text{NDF}$ : 607490.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 3255.741+/-3106.508  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 339.791+/-2635.485  $\chi^2/\text{NDF}$ : 11.6/9

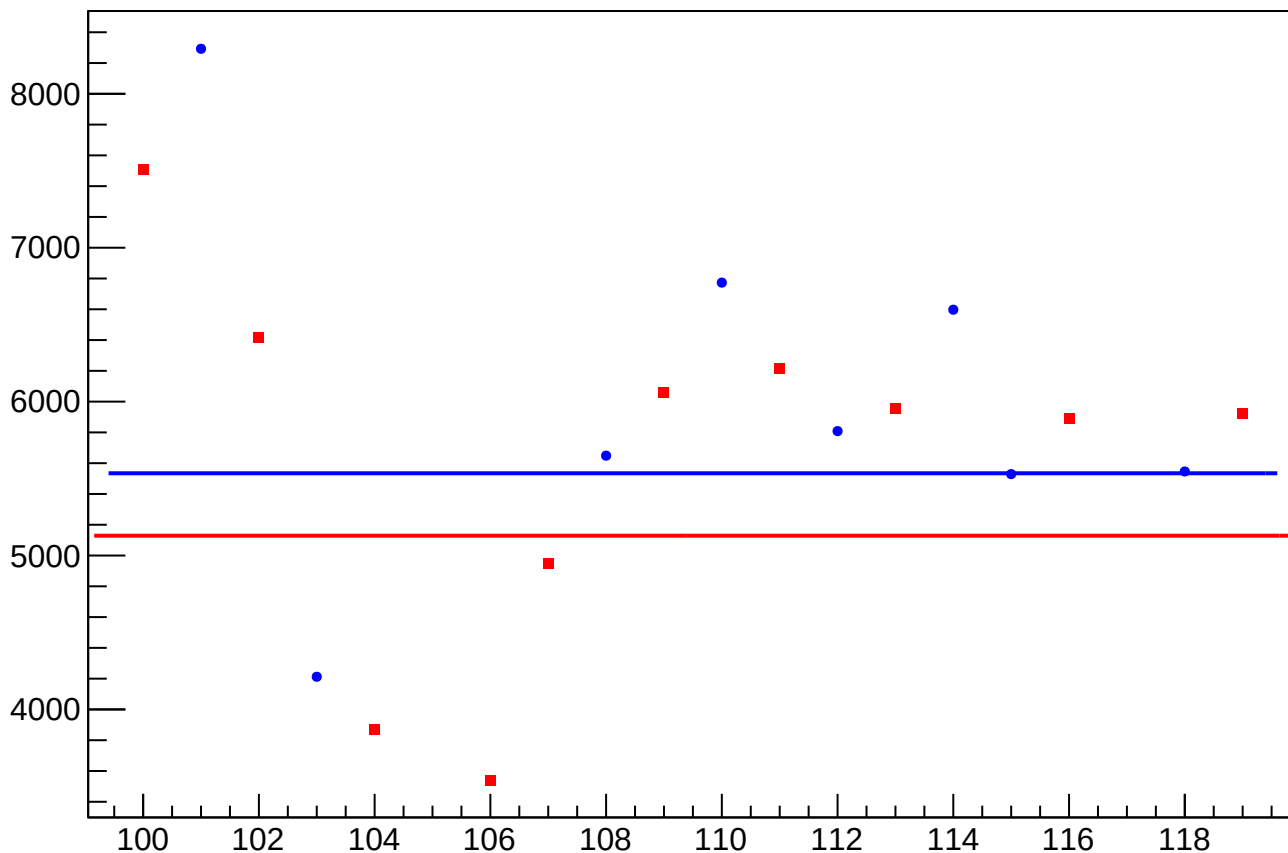
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1560.166+/-2009.690  $\chi^2/\text{NDF}$ : 17.6/17

- 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: 5534.470 $\pm$ 2.197  $\chi^2$ /NDF: 297498.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5128.846 $\pm$ 1.864  $\chi^2$ /NDF: 375416.9/9

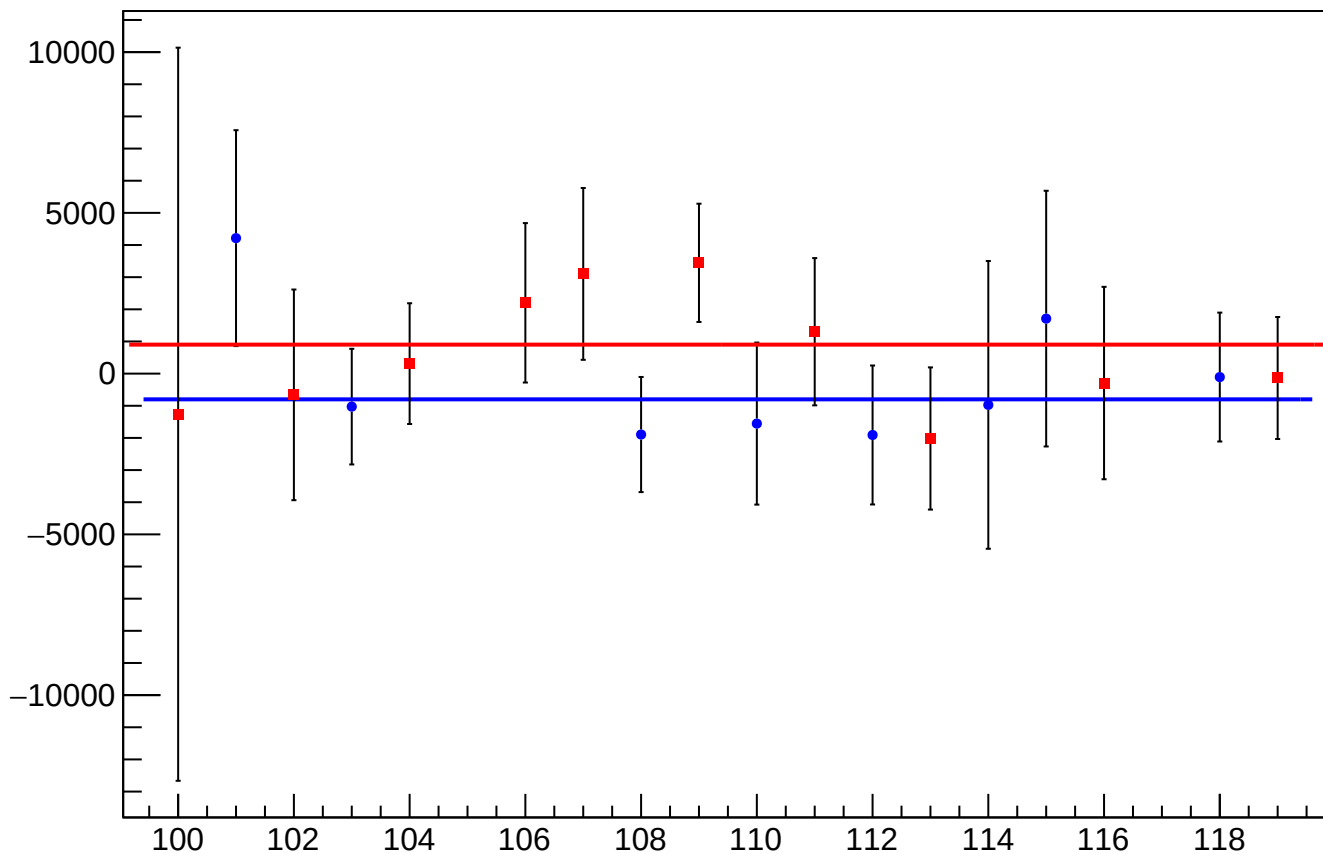
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5298.606 $\pm$ 1.421  $\chi^2$ /NDF: 692743.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In: -800.241+/-832.361  $\chi^2/\text{NDF}$ : 3.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 901.729+/-752.220  $\chi^2/\text{NDF}$ : 5.5/9

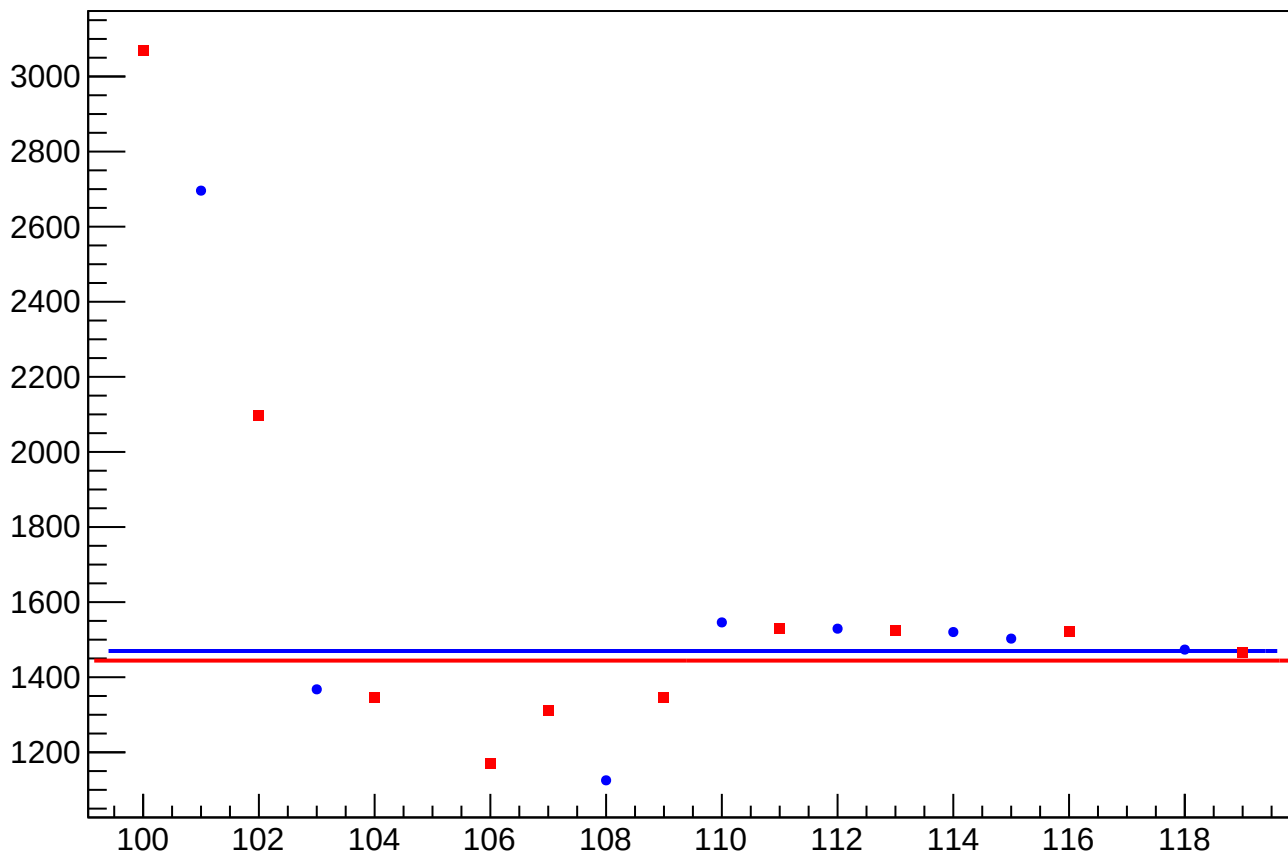
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 136.603+/-558.088  $\chi^2/\text{NDF}$ : 11.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1469.821+/-0.589  $\chi^2/\text{NDF}$ : 350894.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1444.264+/-0.532  $\chi^2/\text{NDF}$ : 167813.9/9

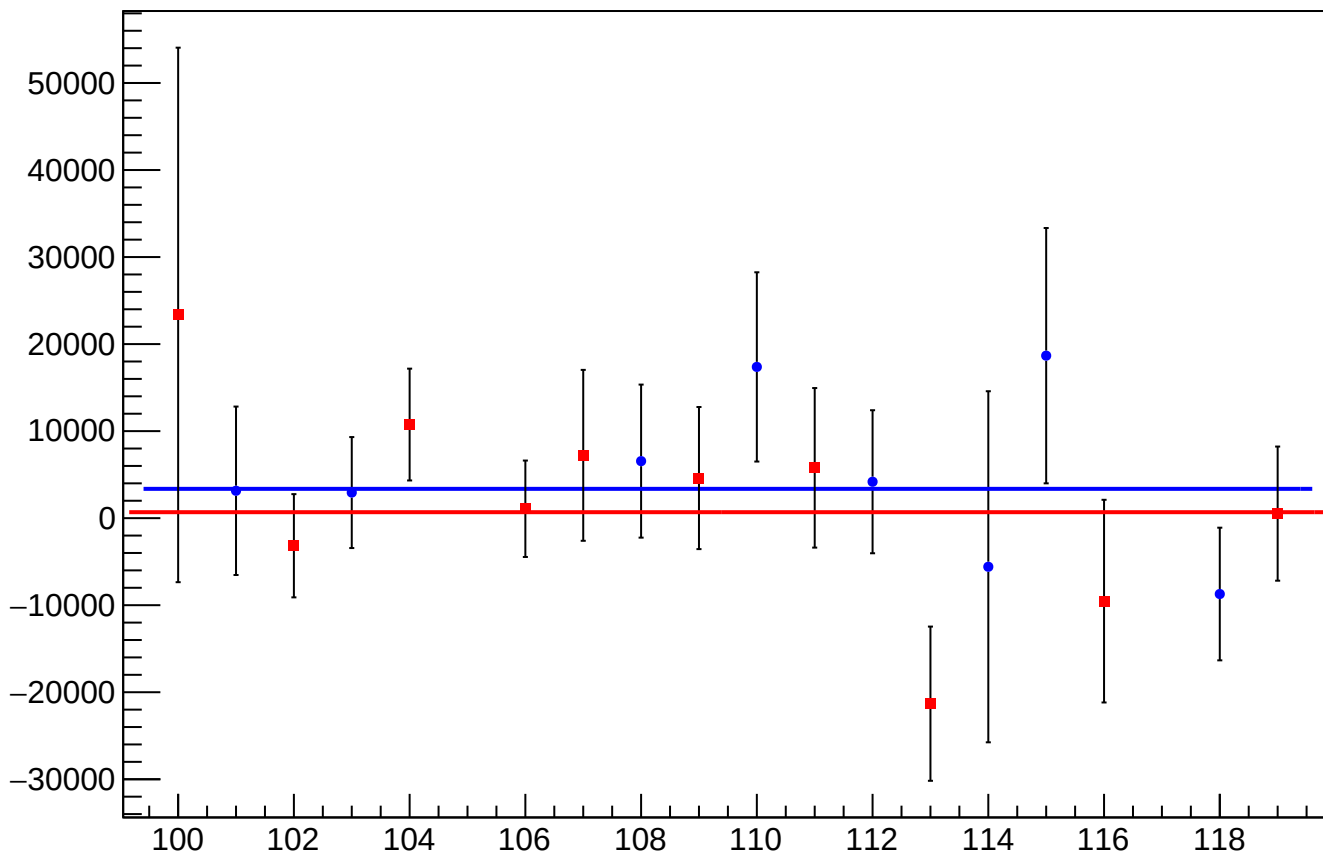
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1455.747+/-0.395  $\chi^2/\text{NDF}$ : 519746.2/17

- 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: 3367.494+/-3230.761  $\chi^2/\text{NDF}$ : 5.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 685.826+/-2495.700  $\chi^2/\text{NDF}$ : 11.4/9

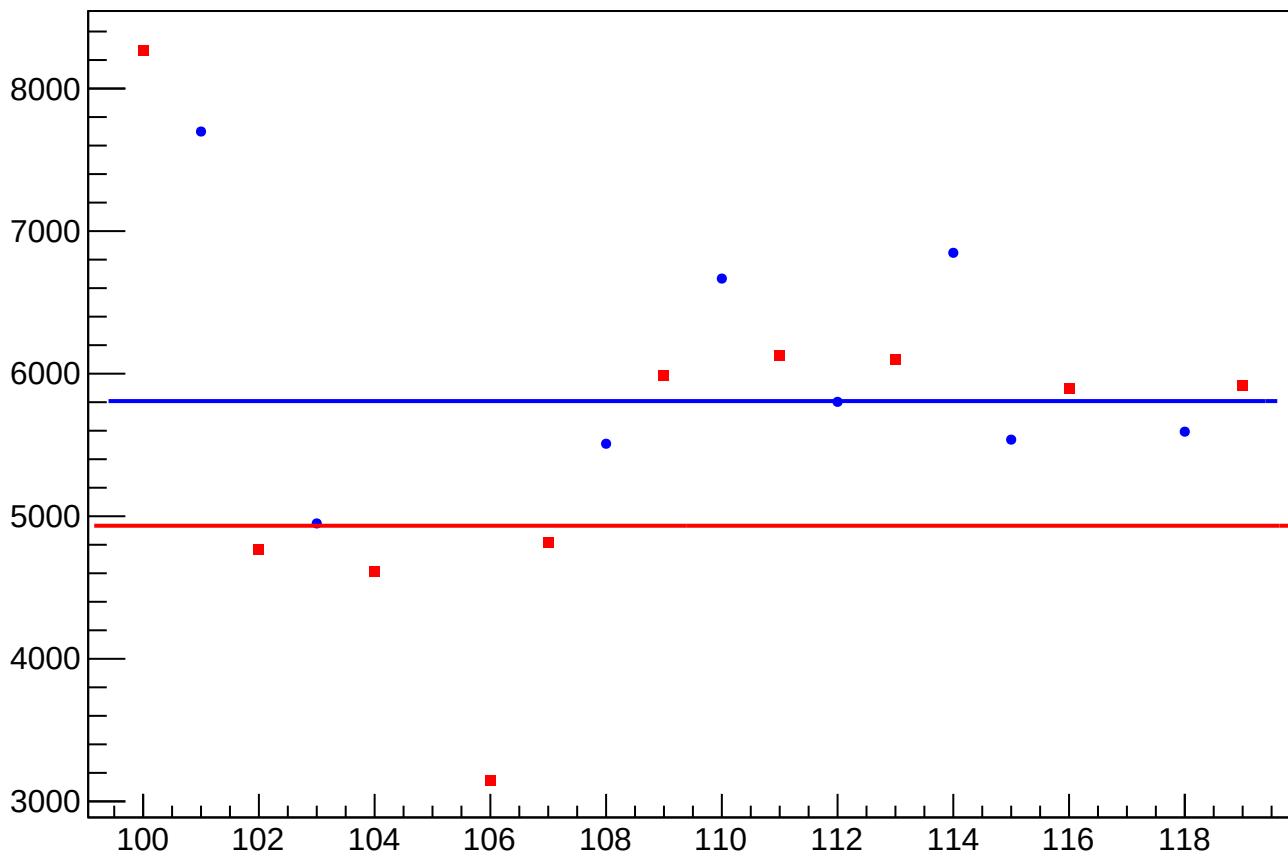
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1688.015+/-1975.046  $\chi^2/\text{NDF}$ : 17.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_dit\_correction\_rms vs Slug



Right In: 5807.854+/-2.284  $\chi^2/\text{NDF}$ : 134985.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4933.407+/-1.765  $\chi^2/\text{NDF}$ : 386313.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

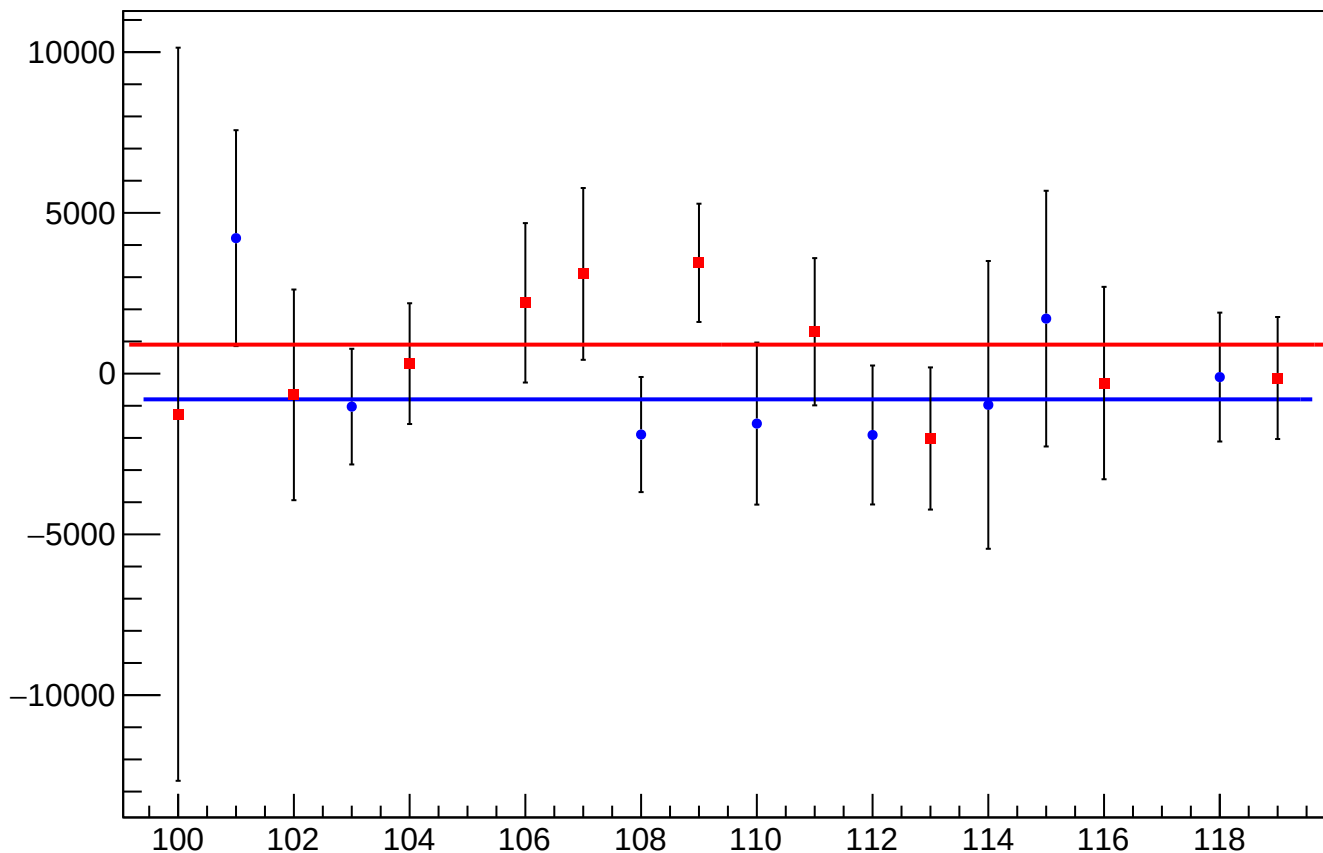
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5260.204+/-1.397  $\chi^2/\text{NDF}$ : 613058.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In: -800.245+/-832.361  $\chi^2/\text{NDF}$ : 3.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 901.743+/-752.220  $\chi^2/\text{NDF}$ : 5.5/9

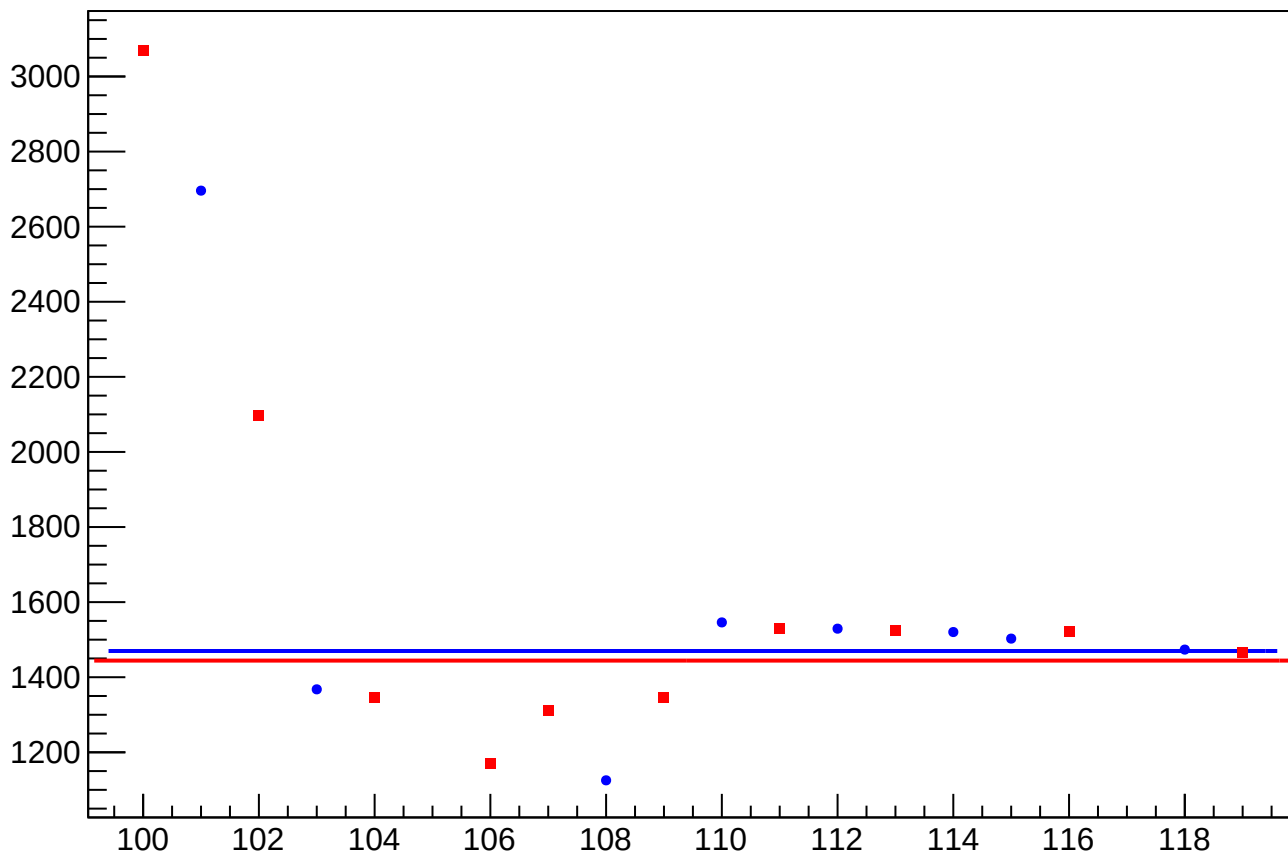
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 136.608+/-558.088  $\chi^2/\text{NDF}$ : 11.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1469.822+/-0.589  $\chi^2/\text{NDF}$ : 350893.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1444.265+/-0.532  $\chi^2/\text{NDF}$ : 167814.2/9

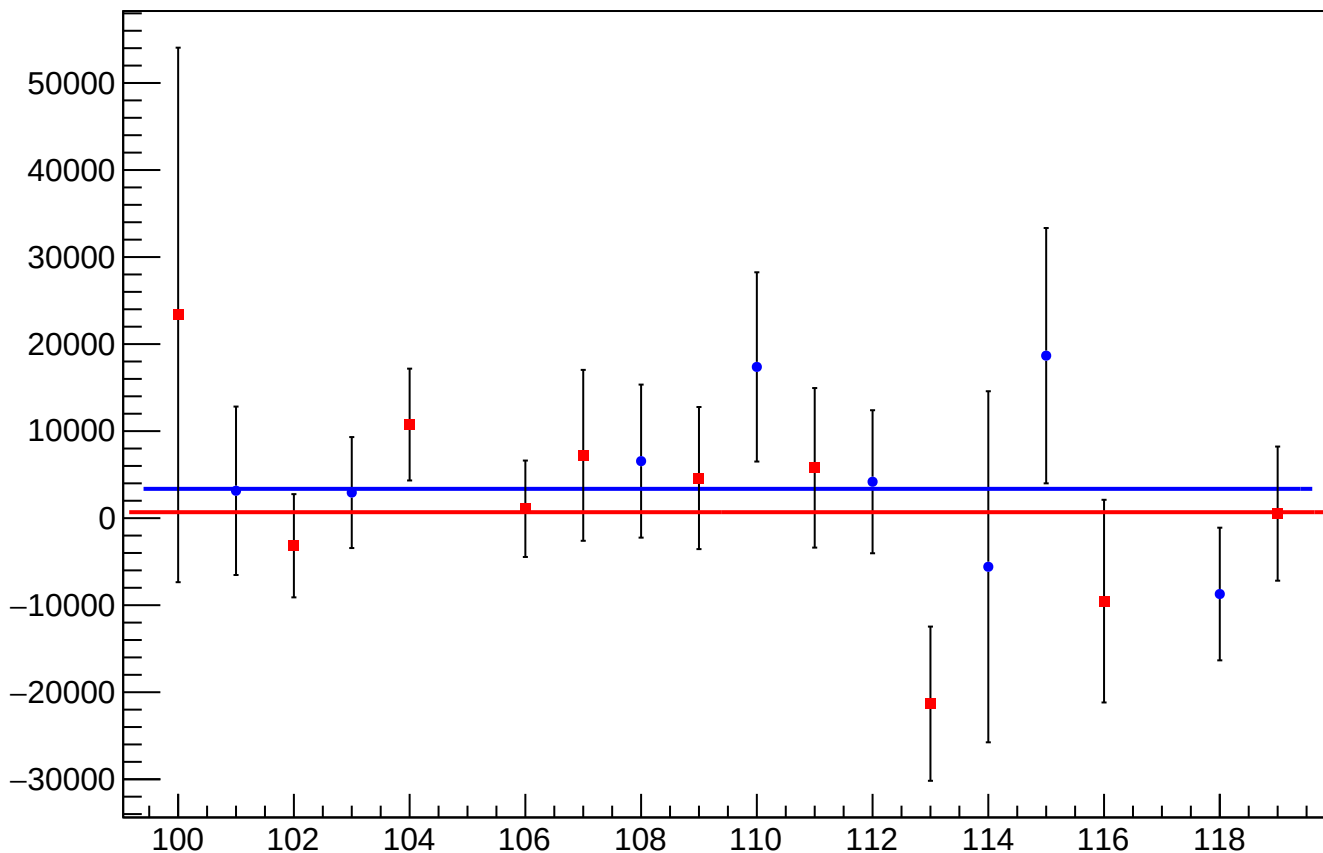
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1455.748+/-0.395  $\chi^2/\text{NDF}$ : 519745.8/17

- 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: 3367.483+/-3230.755  $\chi^2/\text{NDF}$ : 5.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 685.835+/-2495.695  $\chi^2/\text{NDF}$ : 11.4/9

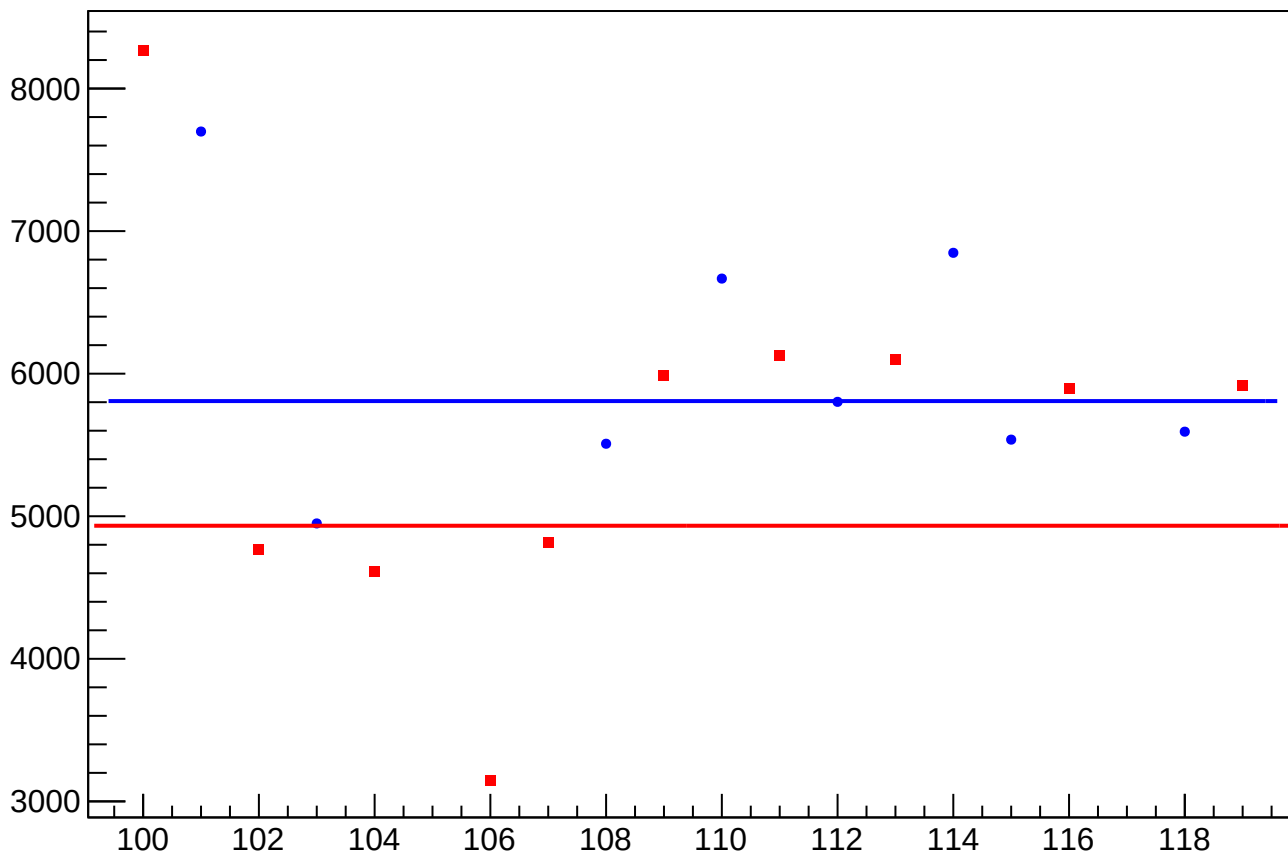
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1688.017+/-1975.042  $\chi^2/\text{NDF}$ : 17.4/17

- 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: 5807.844+/-2.284  $\chi^2/\text{NDF}$ : 134984.7/7

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

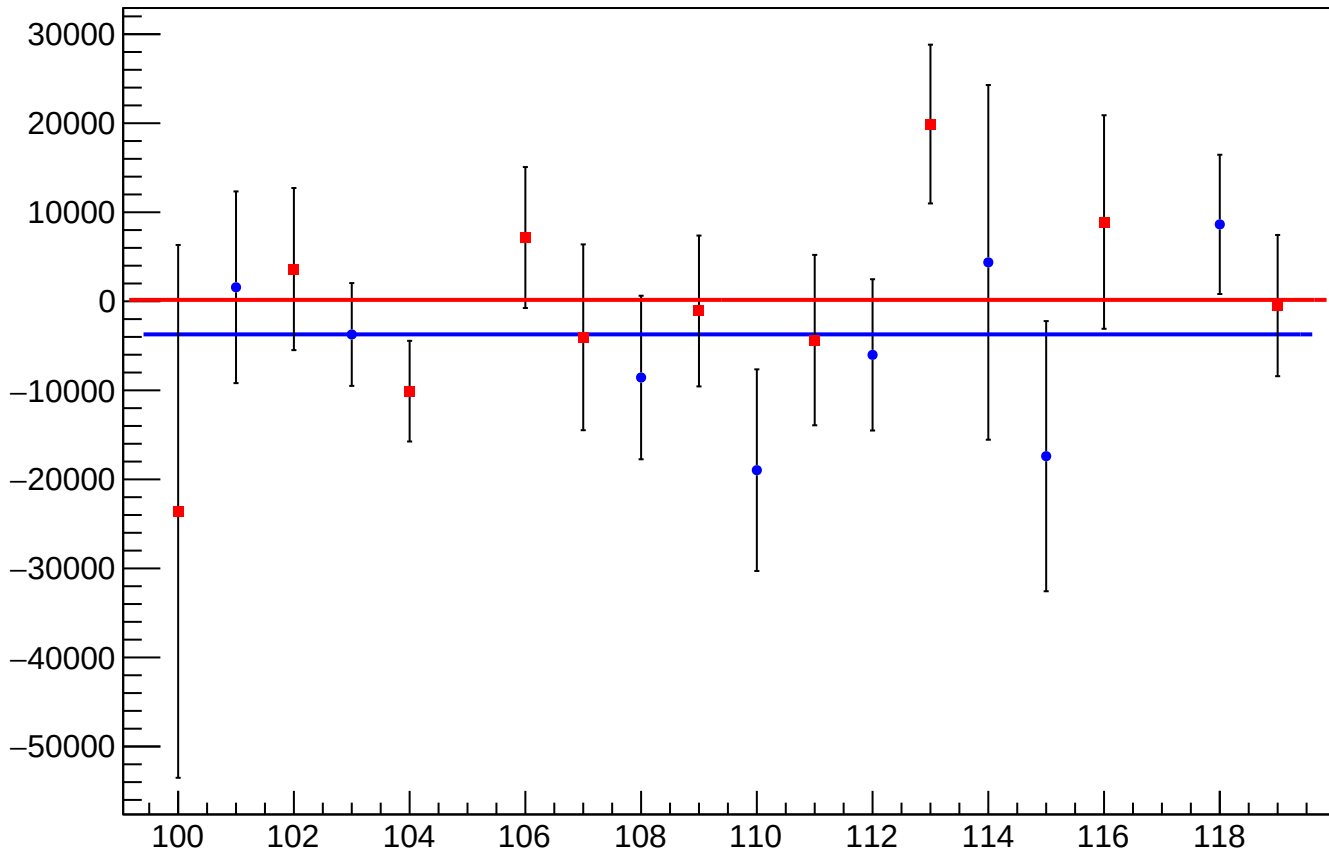
Right Out: 4933.398+/-1.765  $\chi^2/\text{NDF}$ : 386313.2/9

All: 5260.194+/-1.397  $\chi^2/\text{NDF}$ : 613058.8/17

- 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\_dd\_mean vs Slug



Right In: -3714.304 $\pm$ 3238.451  $\chi^2$ /NDF: 5.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 159.509 $\pm$ 2774.593  $\chi^2$ /NDF: 10.7/9

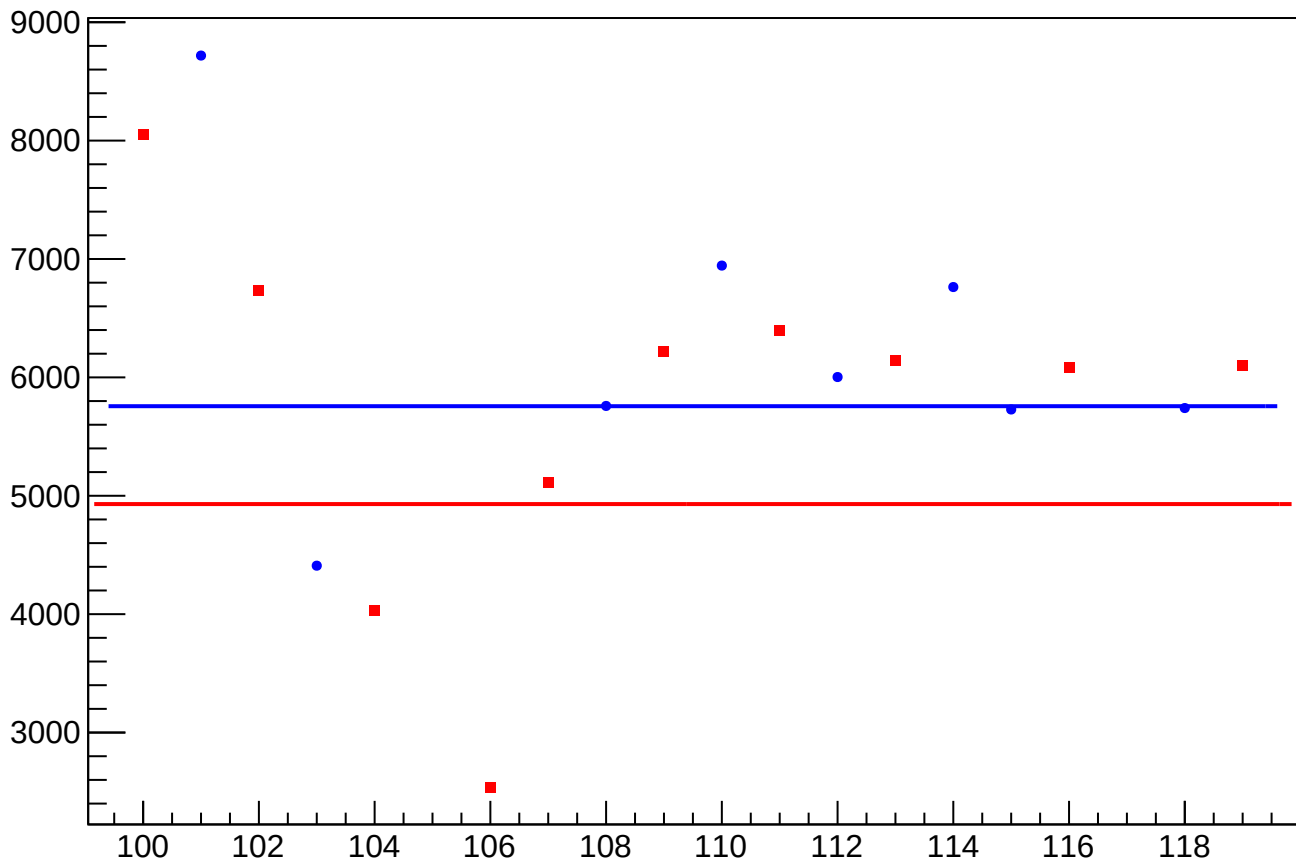
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1480.331 $\pm$ 2107.021  $\chi^2$ /NDF: 17.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 5756.634+/-2.290  $\chi^2/\text{NDF}$ : 289071.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4929.902+/-1.856  $\chi^2/\text{NDF}$ : 700458.2/9

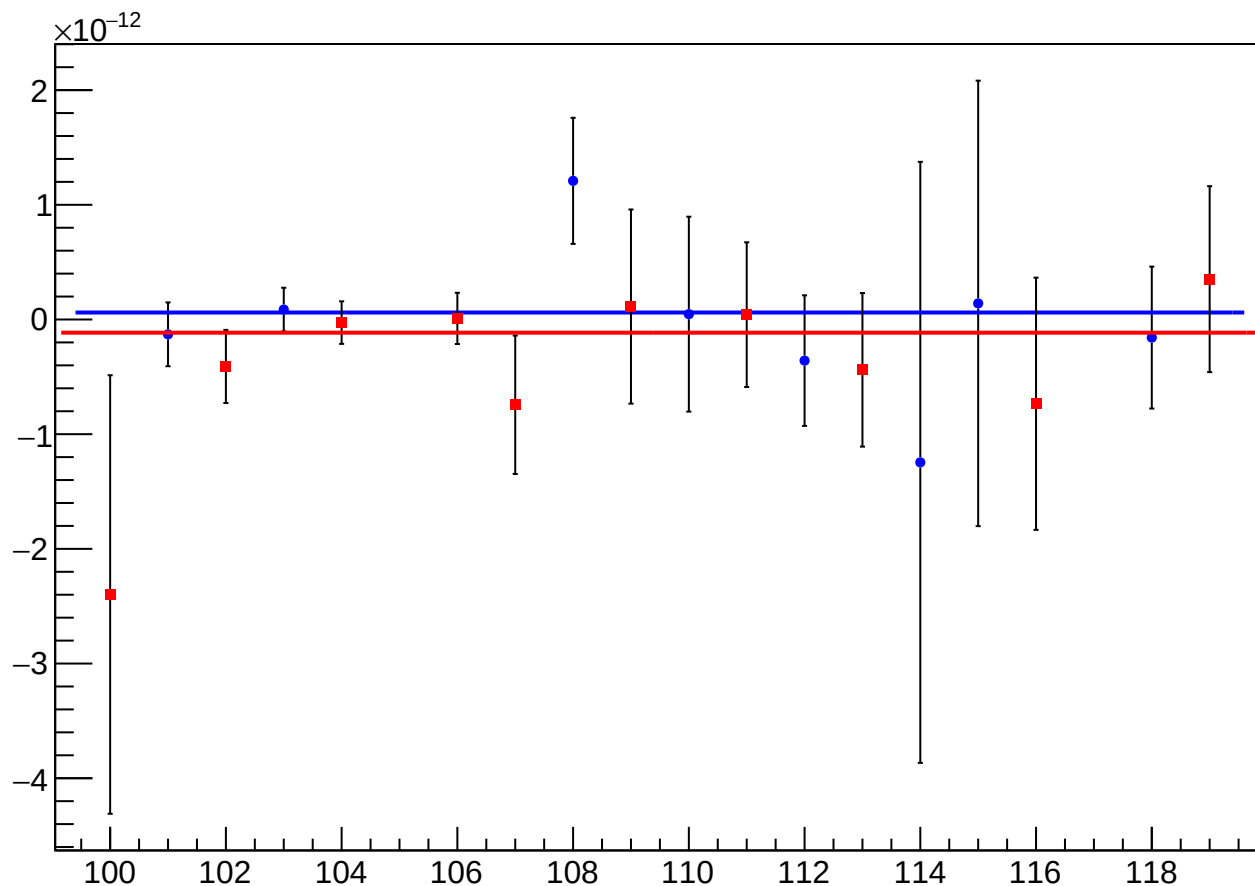
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5257.648+/-1.442  $\chi^2/\text{NDF}$ : 1068201.0/17

- 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  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.9/9

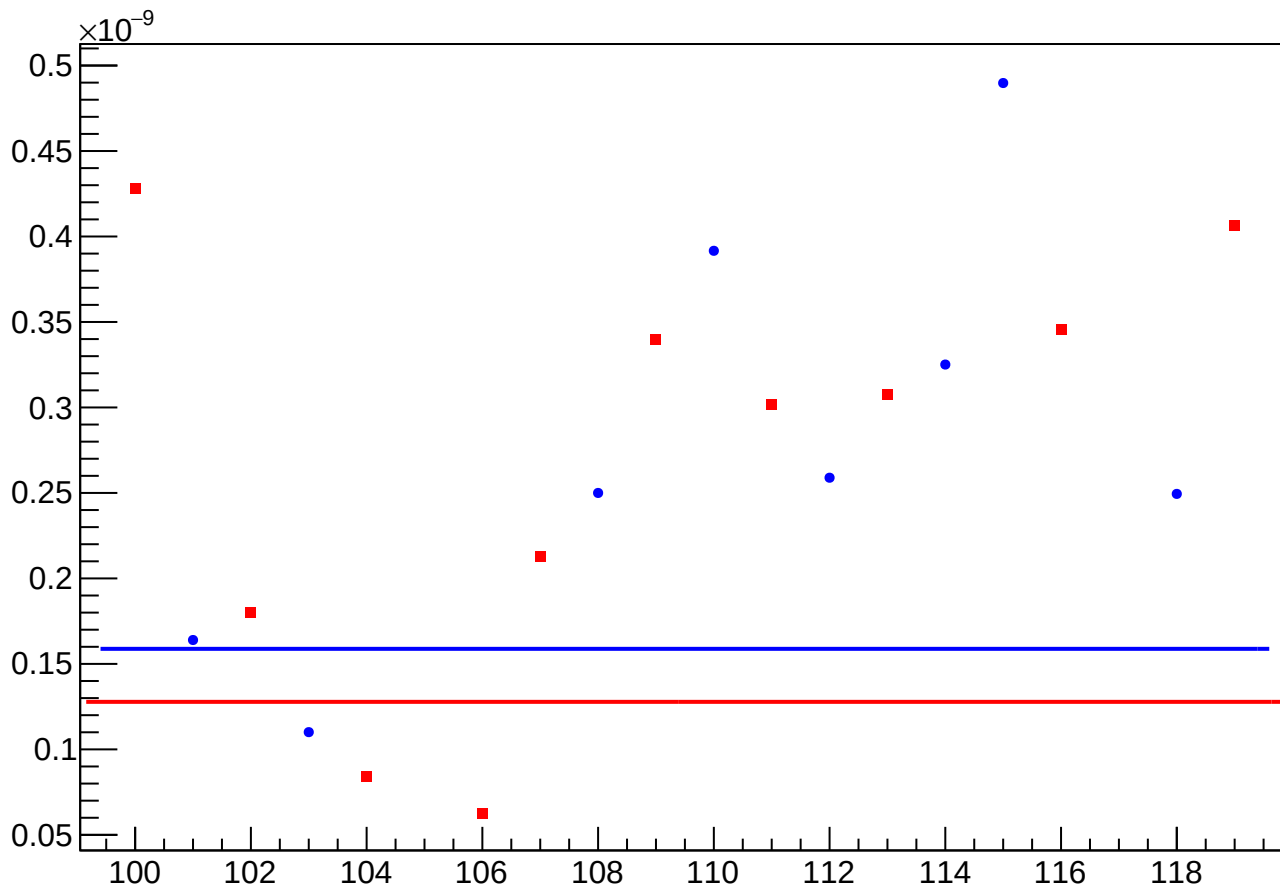
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.6/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 508081.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1161054.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

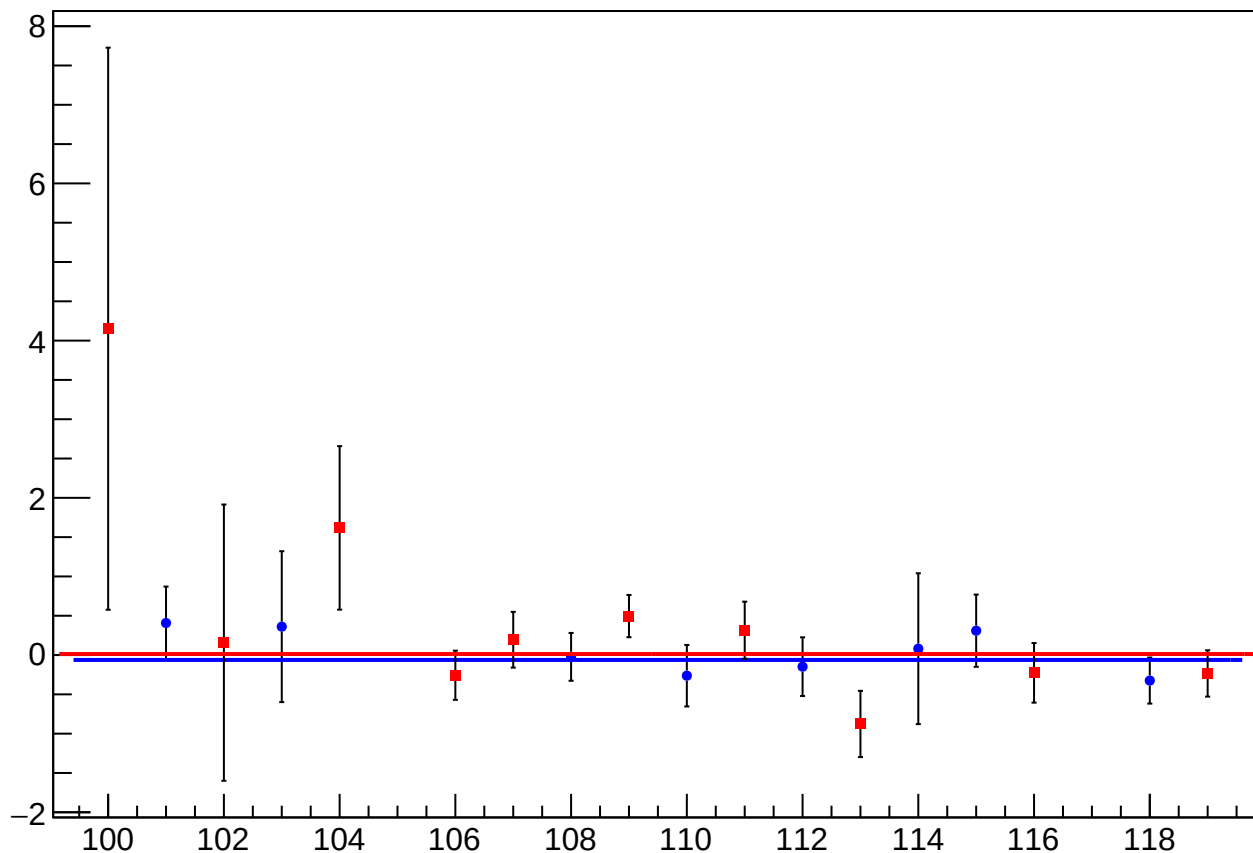
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1726301.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_avg\_at2lr\_avg\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.062 $\pm$ 0.145  $\chi^2$ /NDF: 3.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.013 $\pm$ 0.124  $\chi^2$ /NDF: 14.2/9

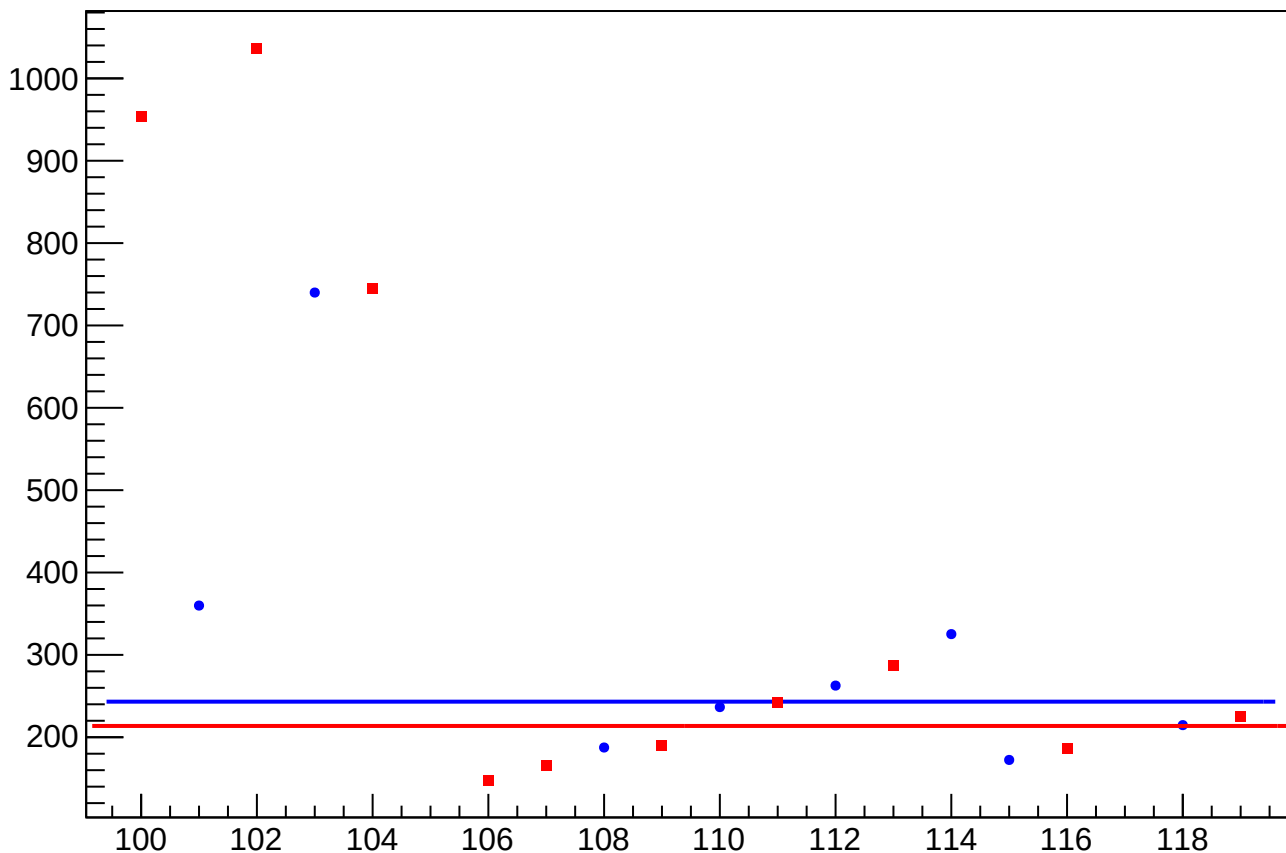
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.019 $\pm$ 0.094  $\chi^2$ /NDF: 17.4/17

- 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: 243.198+/-0.102  $\chi^2/\text{NDF}$ : 816325.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 213.695+/-0.088  $\chi^2/\text{NDF}$ : 1274186.2/9

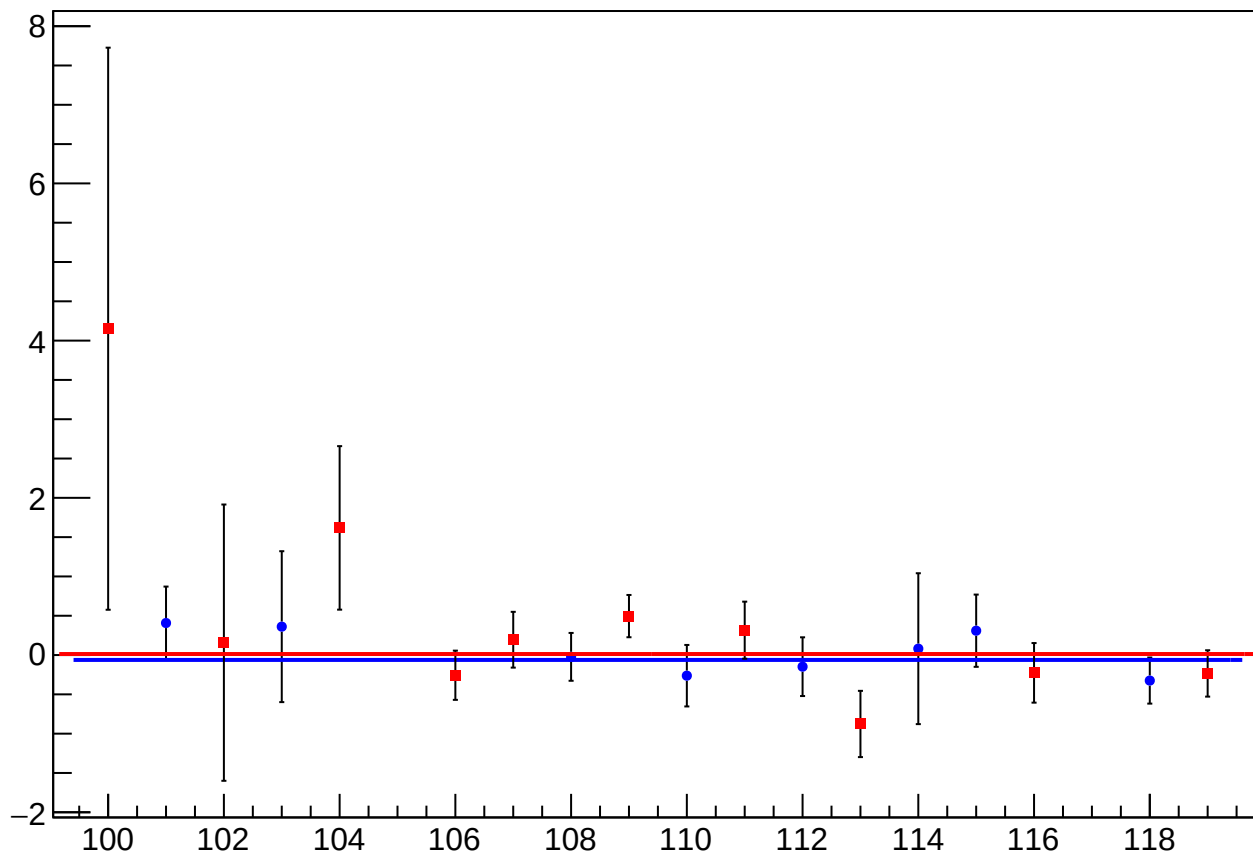
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 226.183+/-0.067  $\chi^2/\text{NDF}$ : 2138402.8/17

- 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:  $-0.062 \pm 0.145$   $\chi^2/\text{NDF}$ : 3.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.013 \pm 0.124$   $\chi^2/\text{NDF}$ : 14.2/9

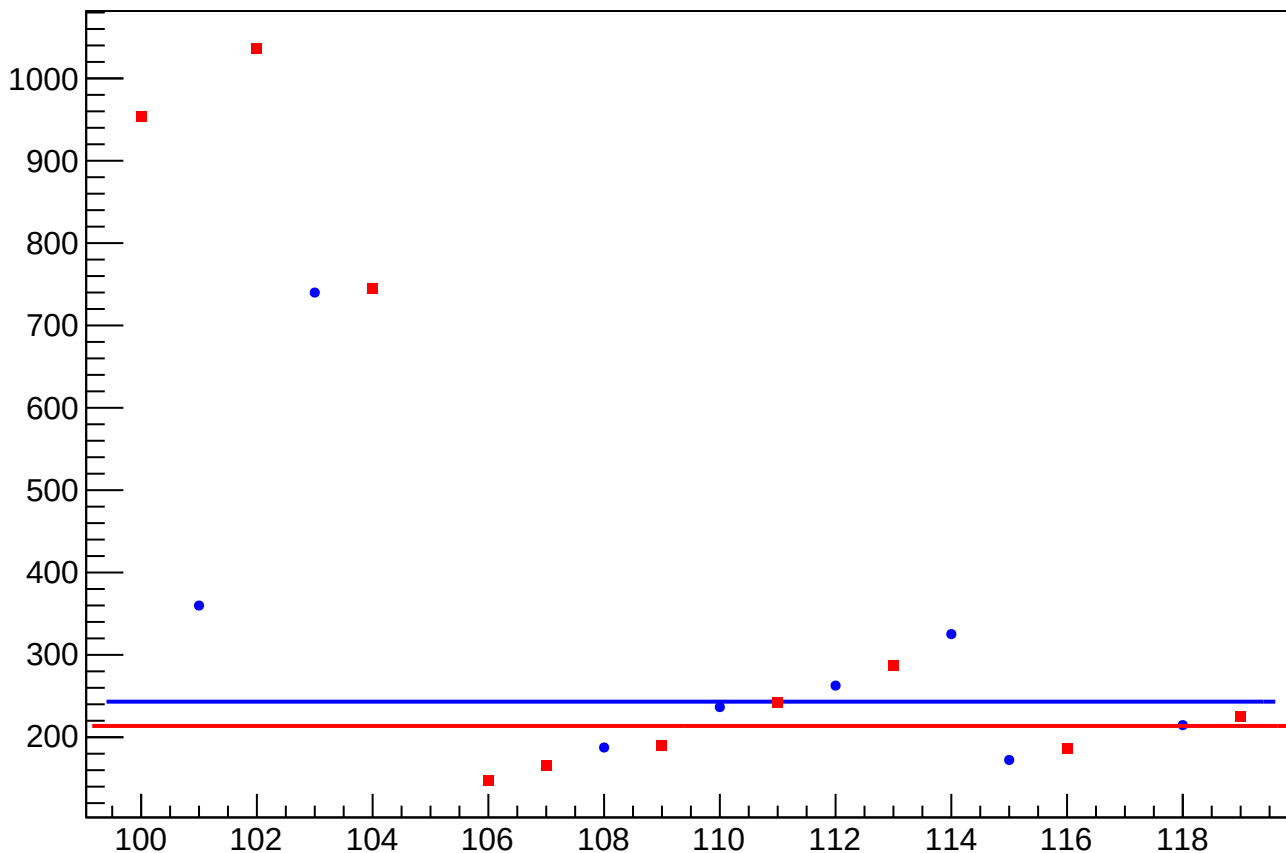
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.019 \pm 0.094$   $\chi^2/\text{NDF}$ : 17.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 243.198+/-0.102  $\chi^2/\text{NDF}$ : 816325.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 213.695+/-0.088  $\chi^2/\text{NDF}$ : 1274186.2/9

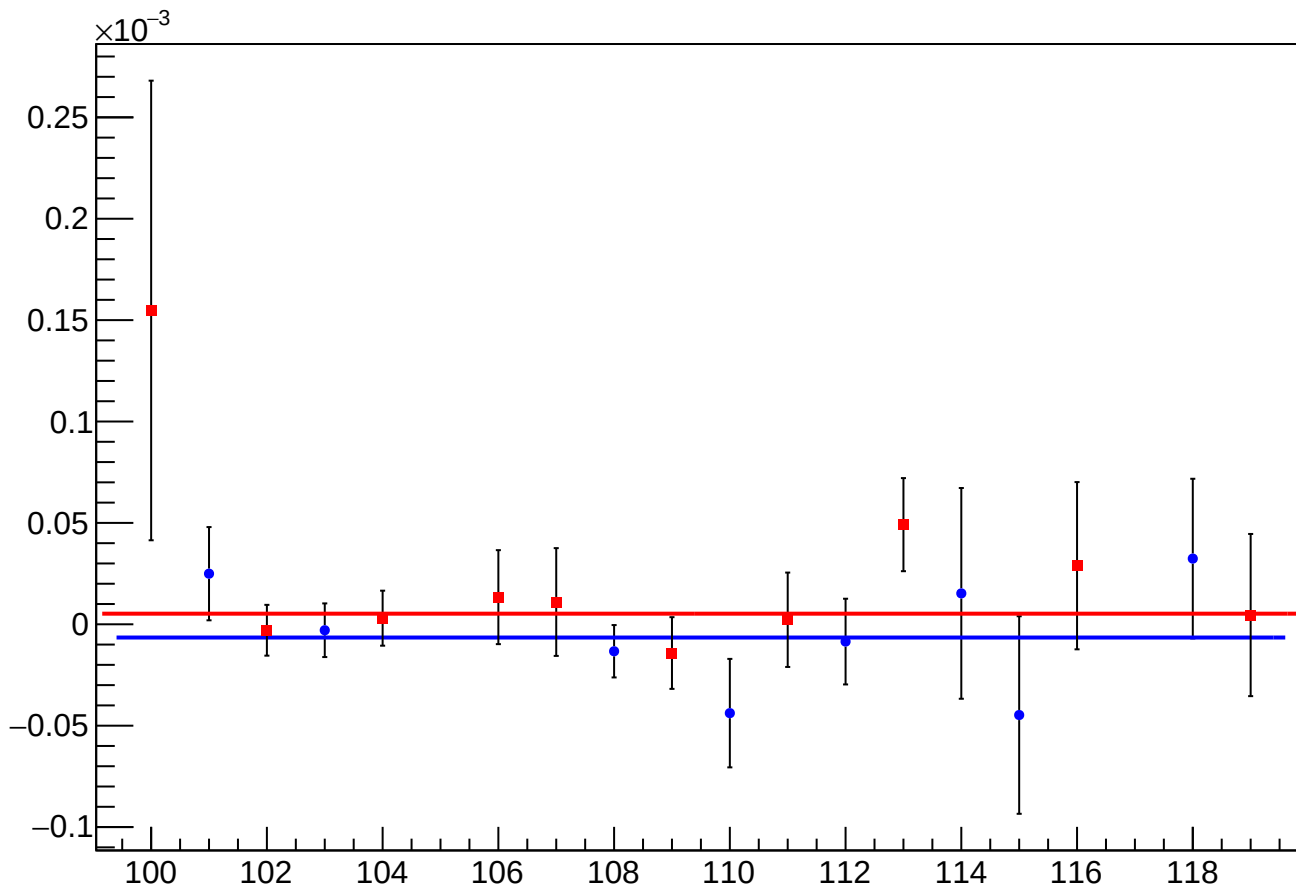
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 226.183+/-0.067  $\chi^2/\text{NDF}$ : 2138402.8/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 5.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.6/9

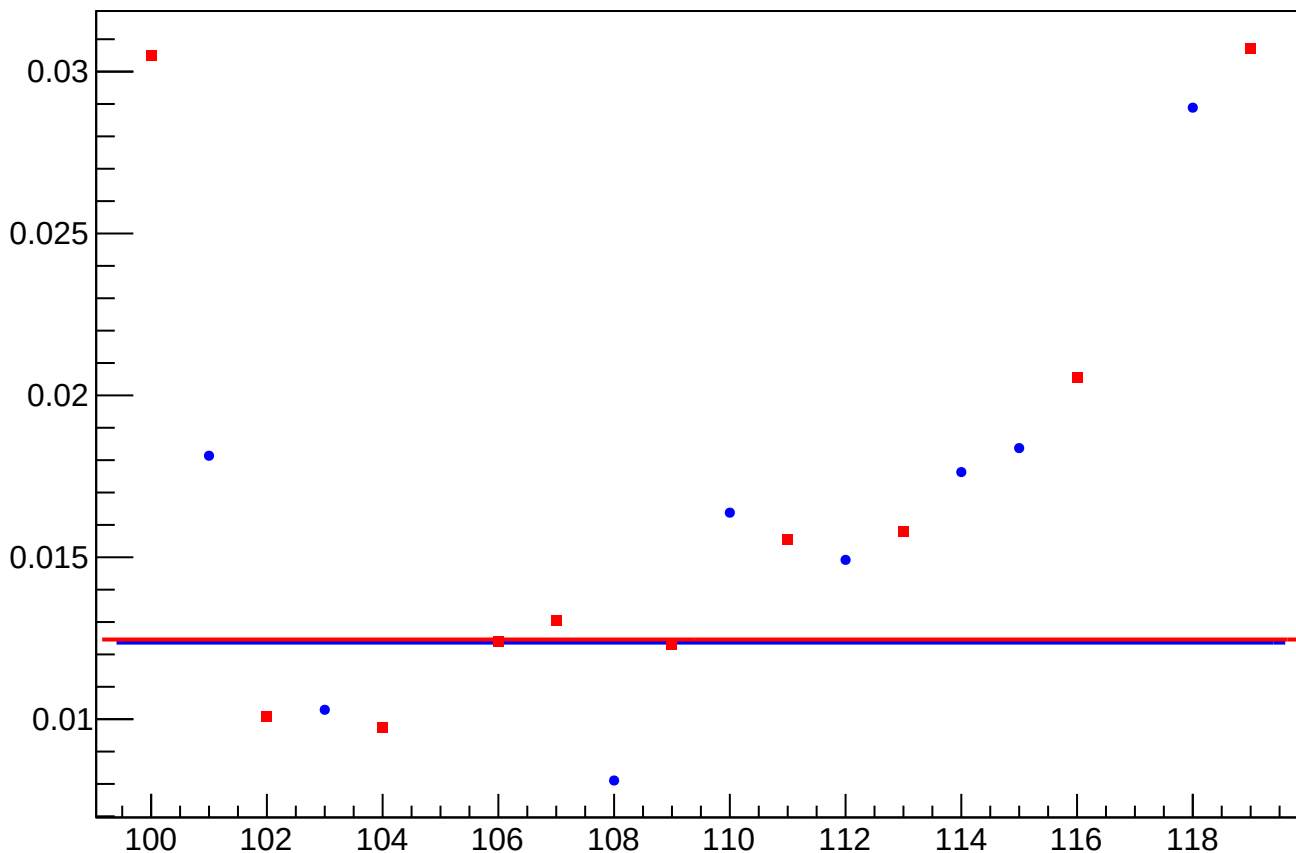
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 870291.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 774101.0/9

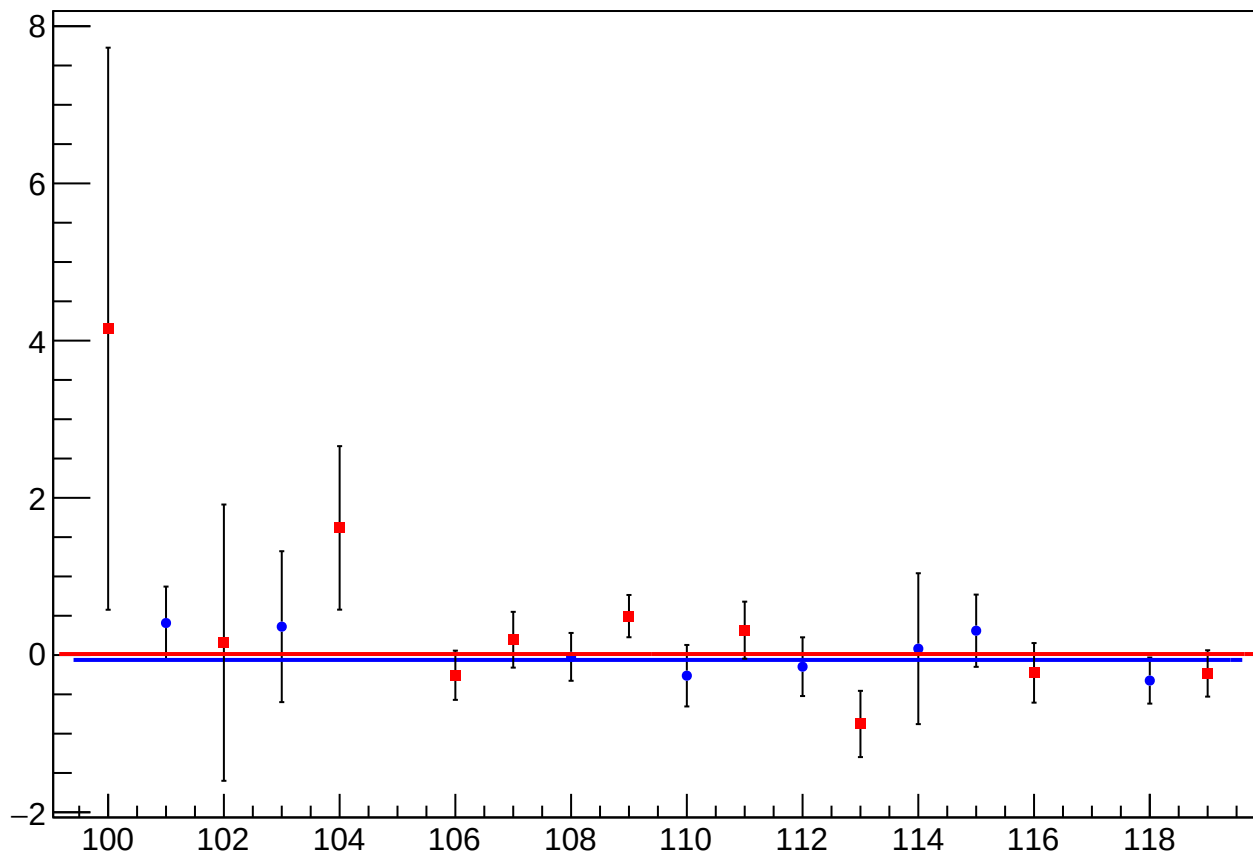
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 1644580.9/17

- 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: -0.062+/-0.145  $\chi^2/\text{NDF}$ : 3.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.124  $\chi^2/\text{NDF}$ : 14.2/9

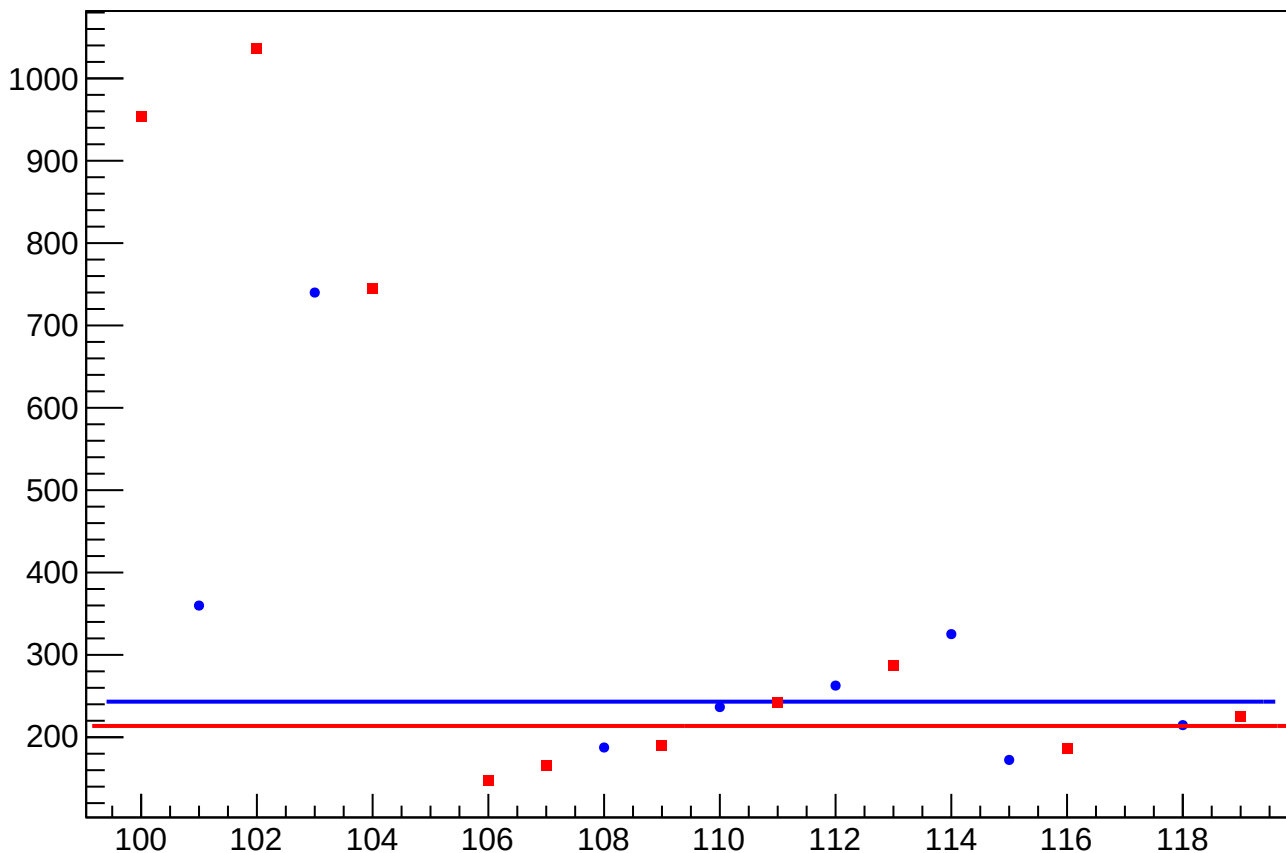
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.019+/-0.094  $\chi^2/\text{NDF}$ : 17.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 243.199+/-0.102  $\chi^2/\text{NDF}$ : 816308.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 213.697+/-0.088  $\chi^2/\text{NDF}$ : 1274186.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

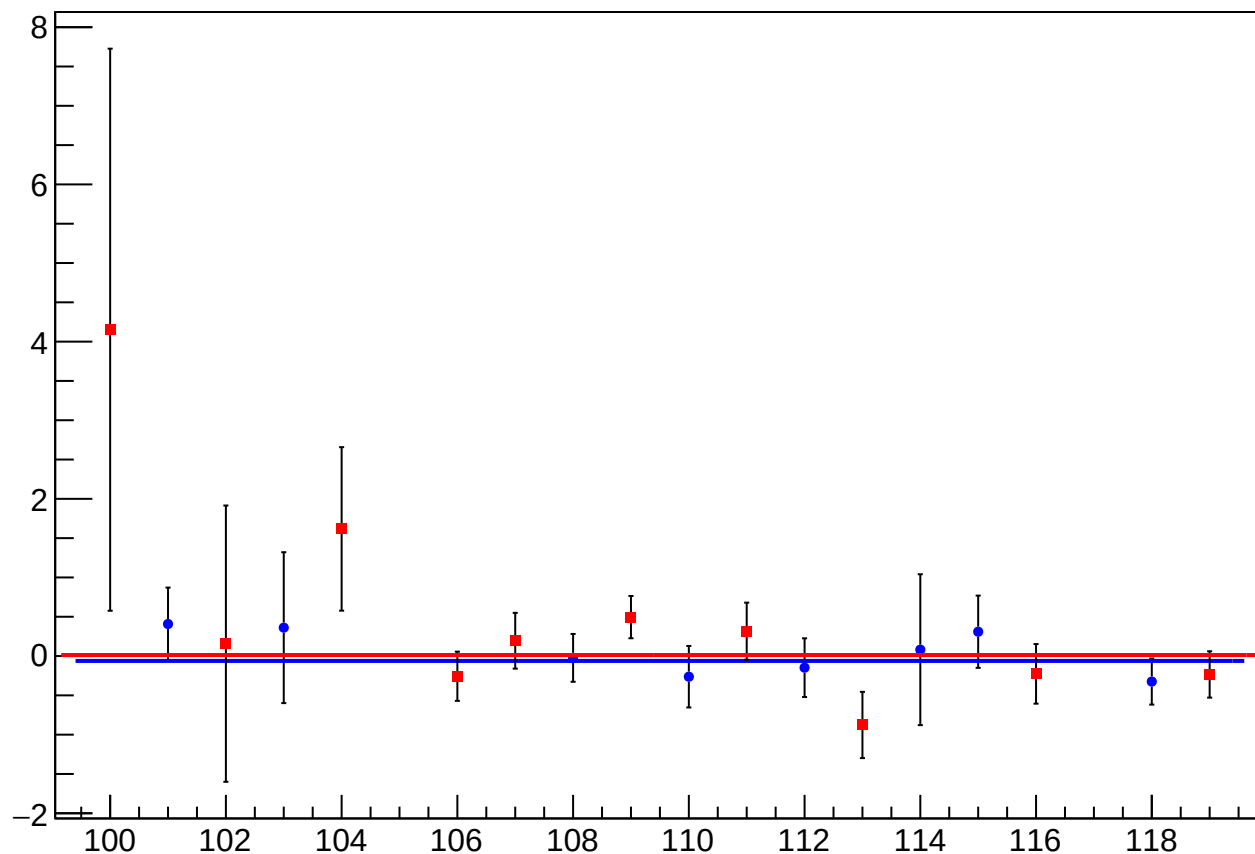
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 226.185+/-0.067  $\chi^2/\text{NDF}$ : 2138382.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.062 $\pm$ 0.145  $\chi^2/\text{NDF}$ : 3.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013 $\pm$ 0.124  $\chi^2/\text{NDF}$ : 14.2/9

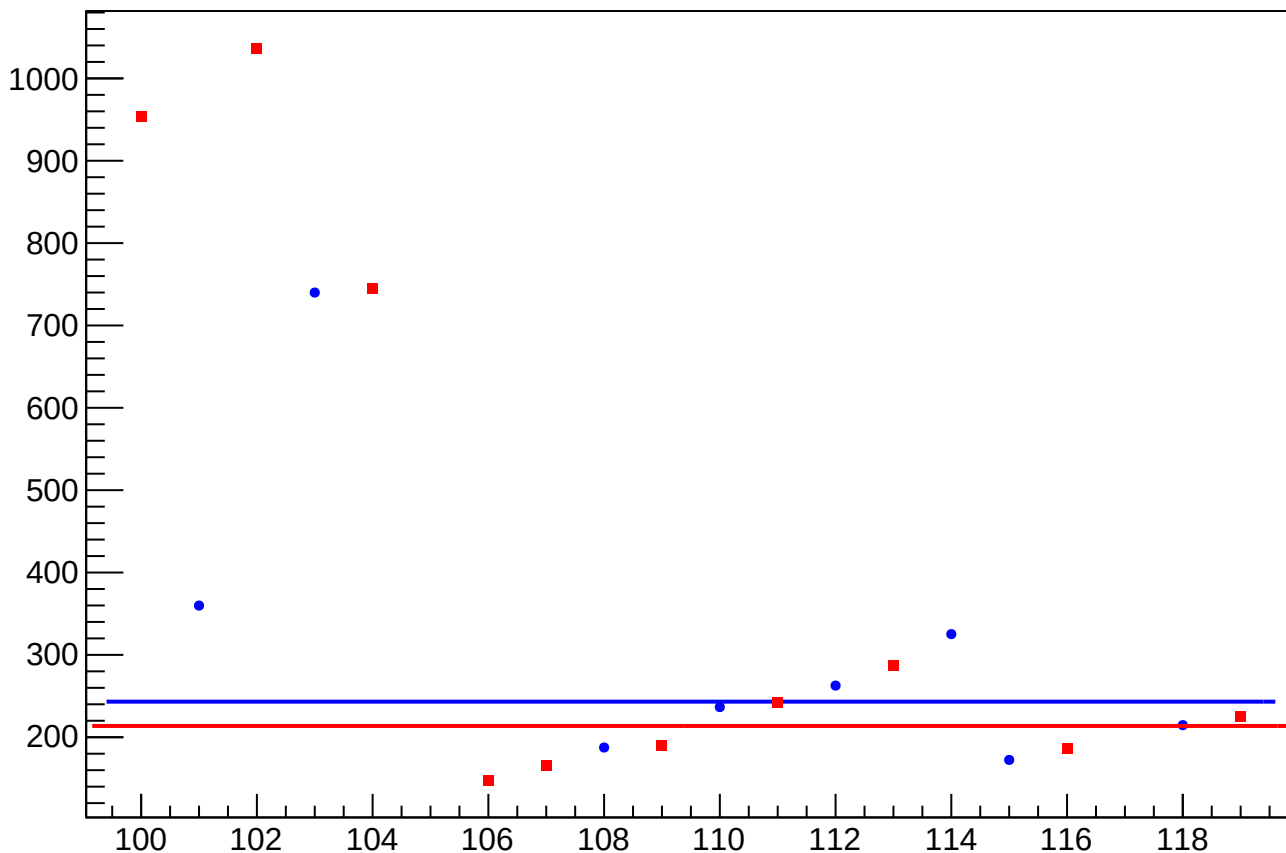
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.019 $\pm$ 0.094  $\chi^2/\text{NDF}$ : 17.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 243.199+/-0.102  $\chi^2/\text{NDF}$ : 816308.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 213.697+/-0.088  $\chi^2/\text{NDF}$ : 1274186.9/9

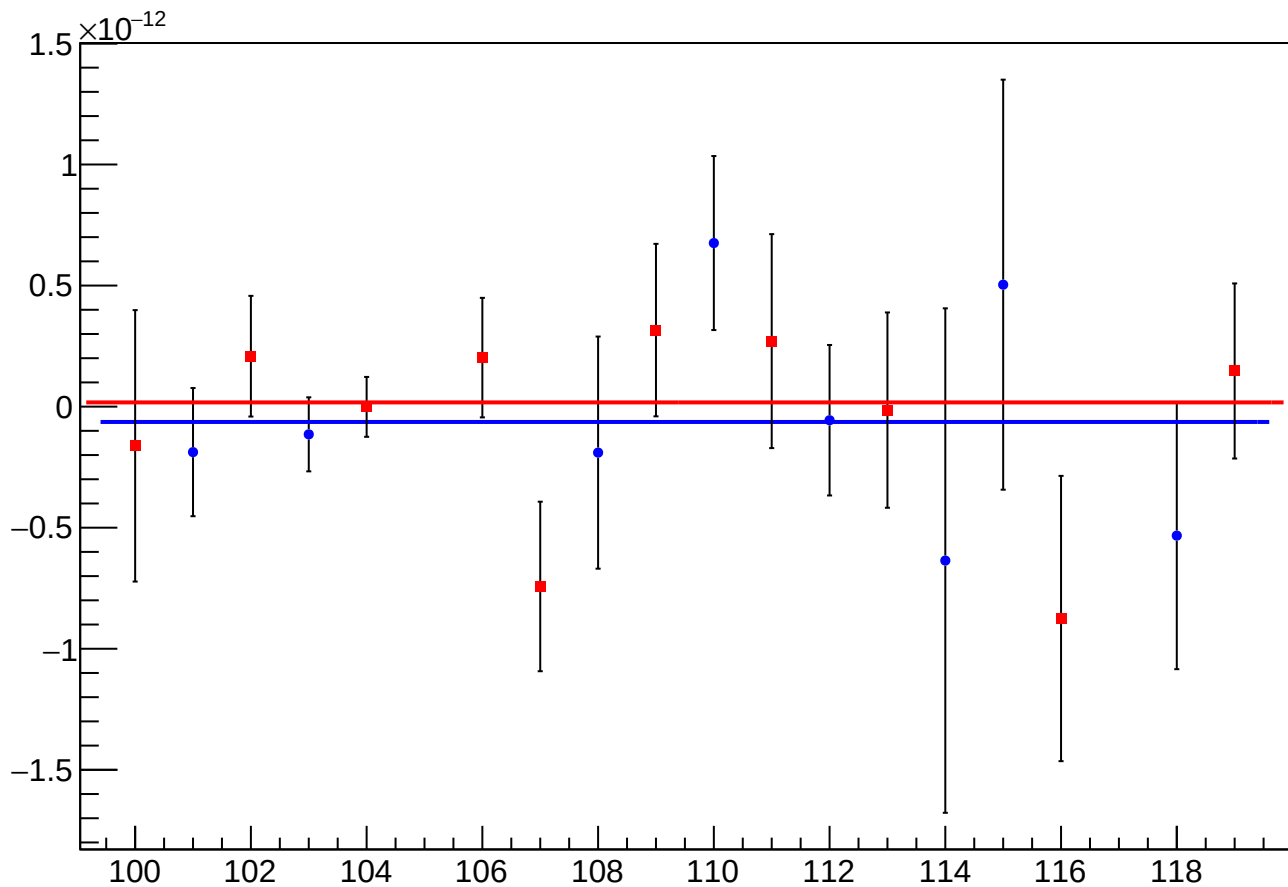
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 226.185+/-0.067  $\chi^2/\text{NDF}$ : 2138382.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.4/9

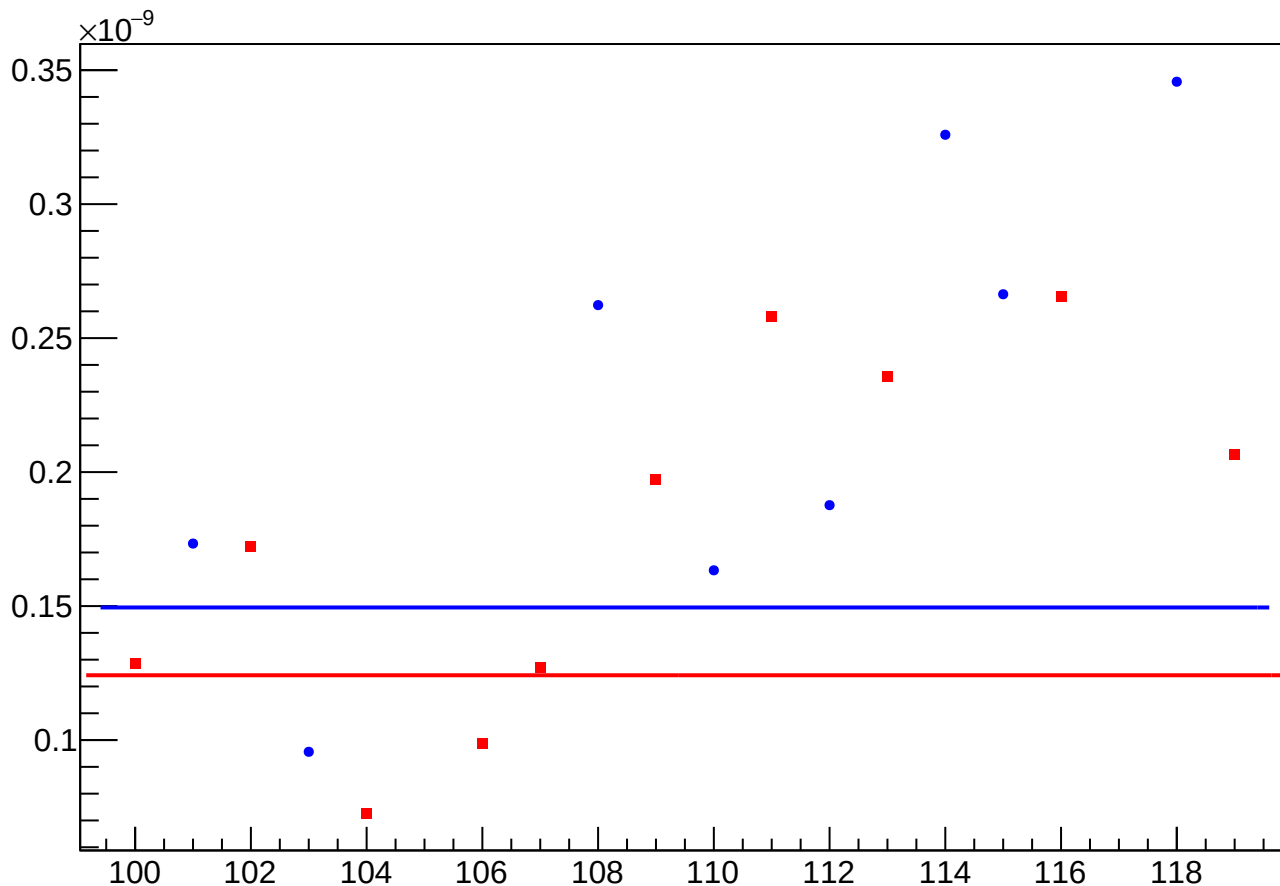
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.9/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 756966.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1083711.7/9

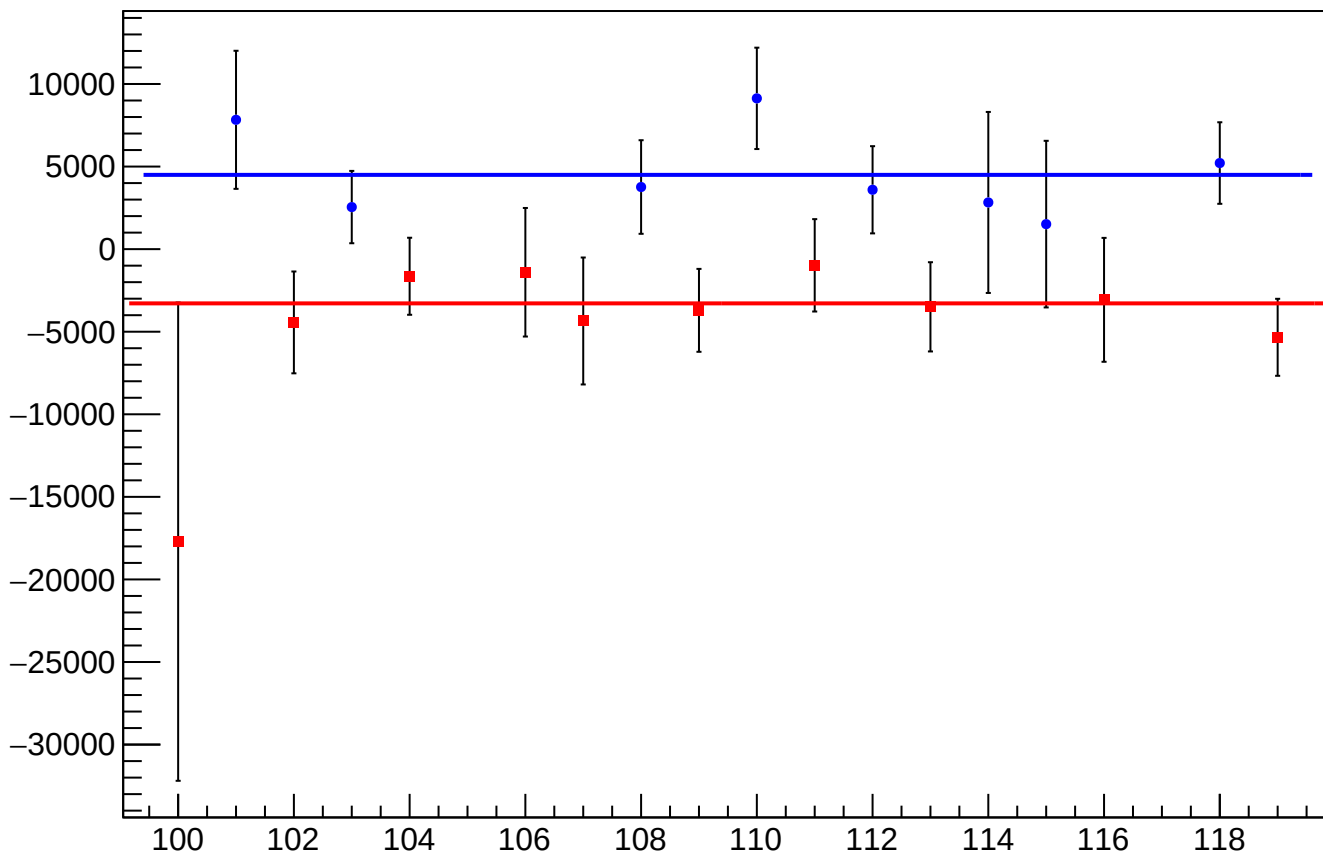
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1908243.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug



Right In: 4496.901 $\pm$ 1068.133  $\chi^2$ /NDF: 4.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3284.149 $\pm$ 950.815  $\chi^2$ /NDF: 3.4/9

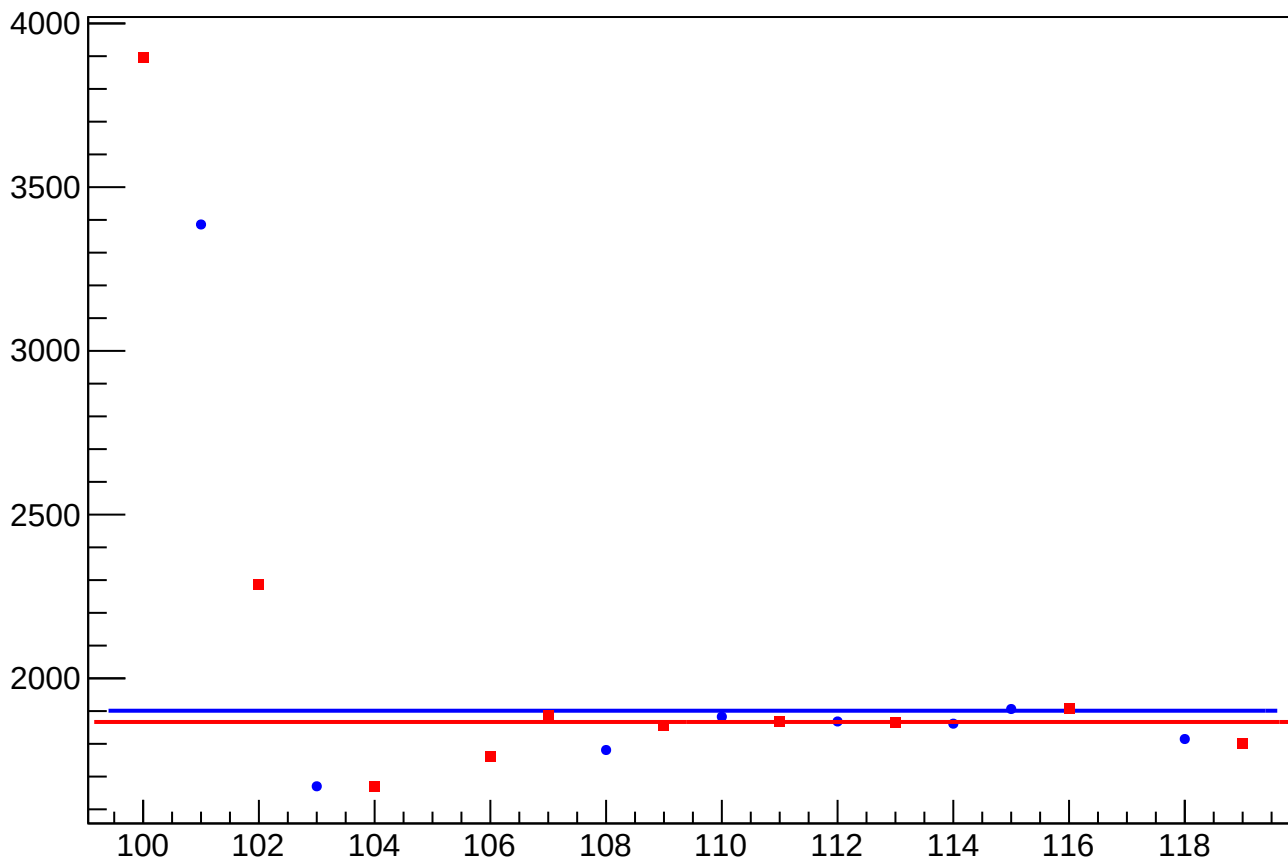
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 155.755 $\pm$ 710.198  $\chi^2$ /NDF: 37.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 1901.105+/-0.755  $\chi^2/\text{NDF}$ : 281084.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1866.763+/-0.669  $\chi^2/\text{NDF}$ : 94248.4/9

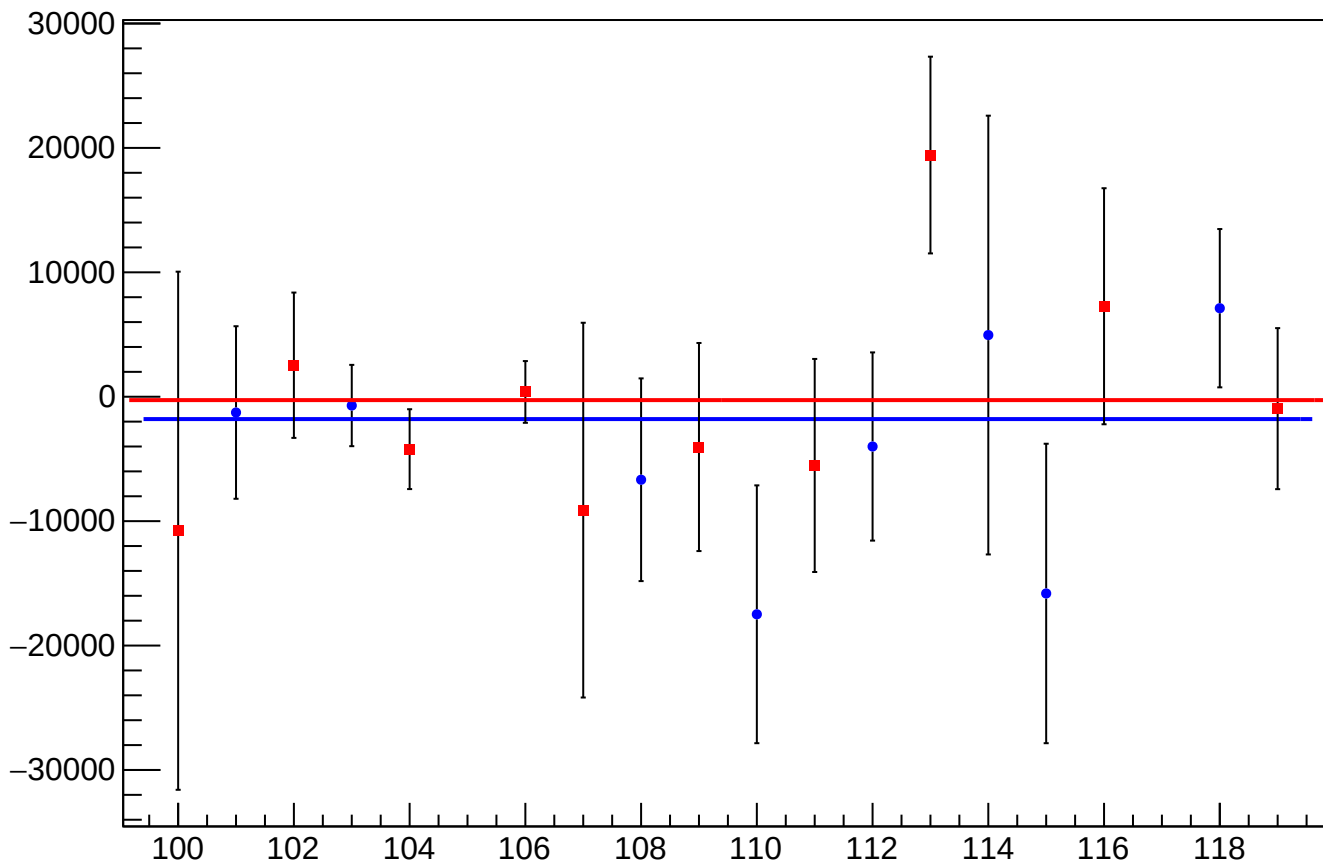
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1881.850+/-0.501  $\chi^2/\text{NDF}$ : 376492.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_reg\_correction\_mean vs Slug



Right In: -1796.121+/-2287.350  $\chi^2/\text{NDF}$ : 6.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -271.427+/-1634.210  $\chi^2/\text{NDF}$ : 9.8/9

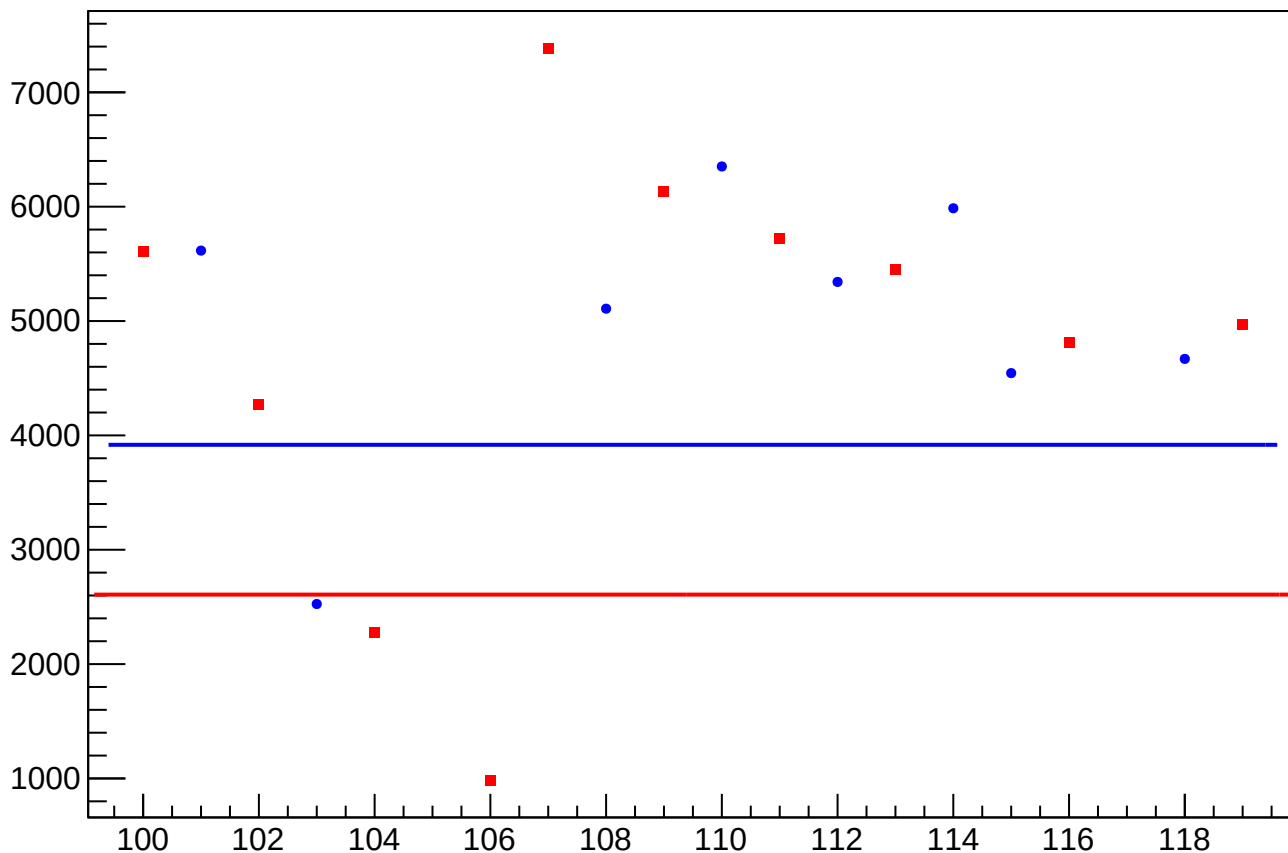
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -786.689+/-1329.705  $\chi^2/\text{NDF}$ : 16.5/17

- 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: 3917.620+/-1.617  $\chi^2/\text{NDF}$ : 767763.8/7

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: 2607.631+/-1.156  $\chi^2/\text{NDF}$ : 2537289.0/9

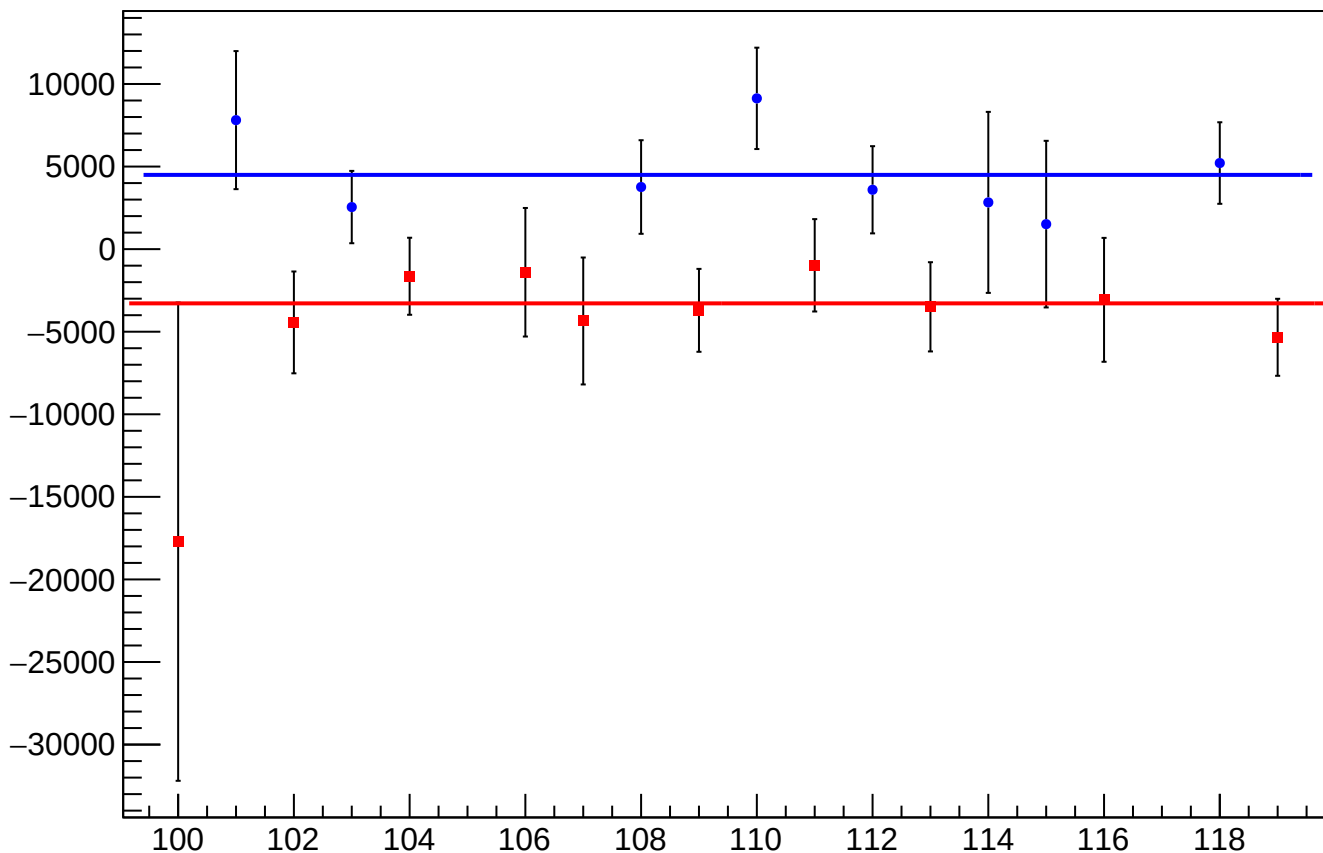
All: 3050.334+/-0.940  $\chi^2/\text{NDF}$ : 3739357.7/17

- 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: 4495.961 $\pm$ 1068.134  $\chi^2$ /NDF: 4.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3283.802 $\pm$ 950.816  $\chi^2$ /NDF: 3.4/9

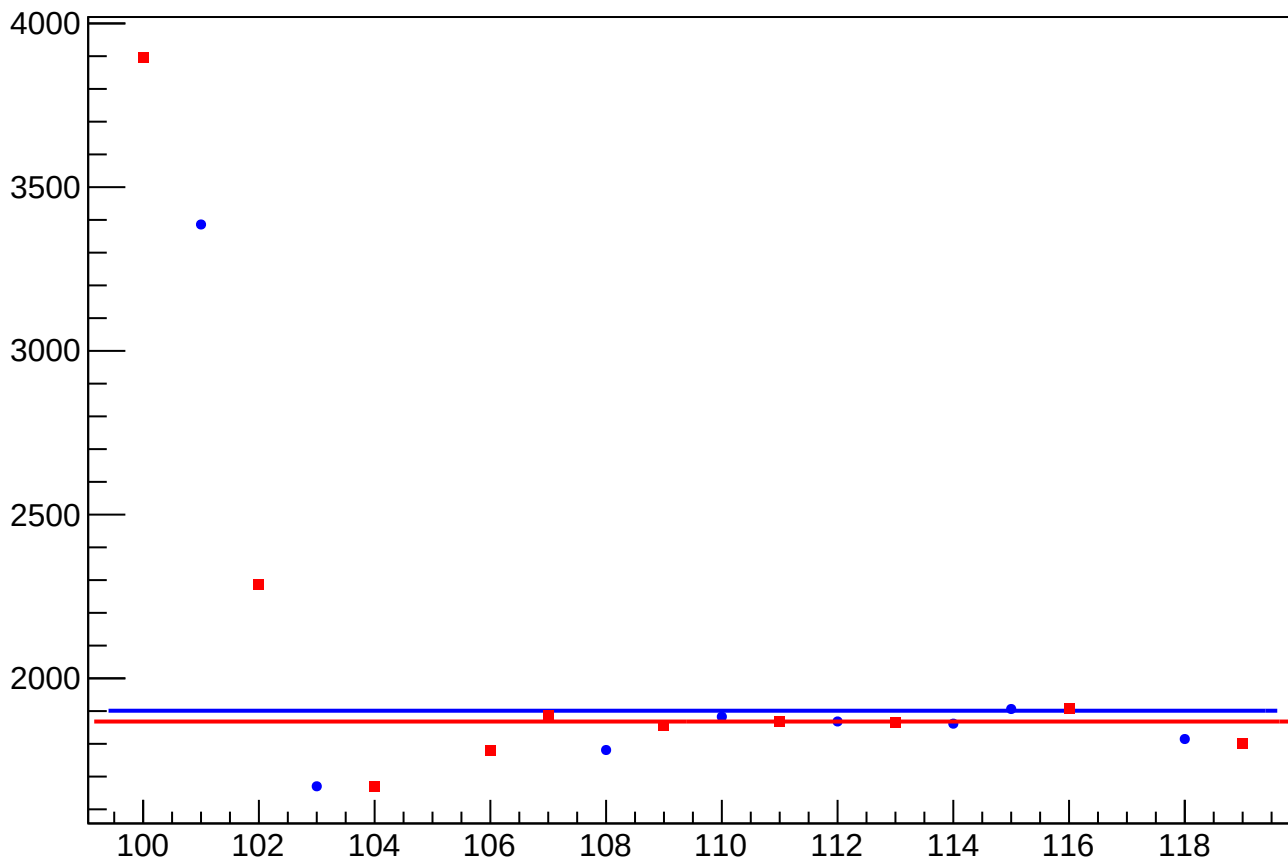
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 155.530 $\pm$ 710.198  $\chi^2$ /NDF: 37.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 1901.105+/-0.755  $\chi^2/\text{NDF}$ : 281086.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1868.092+/-0.669  $\chi^2/\text{NDF}$ : 93697.8/9

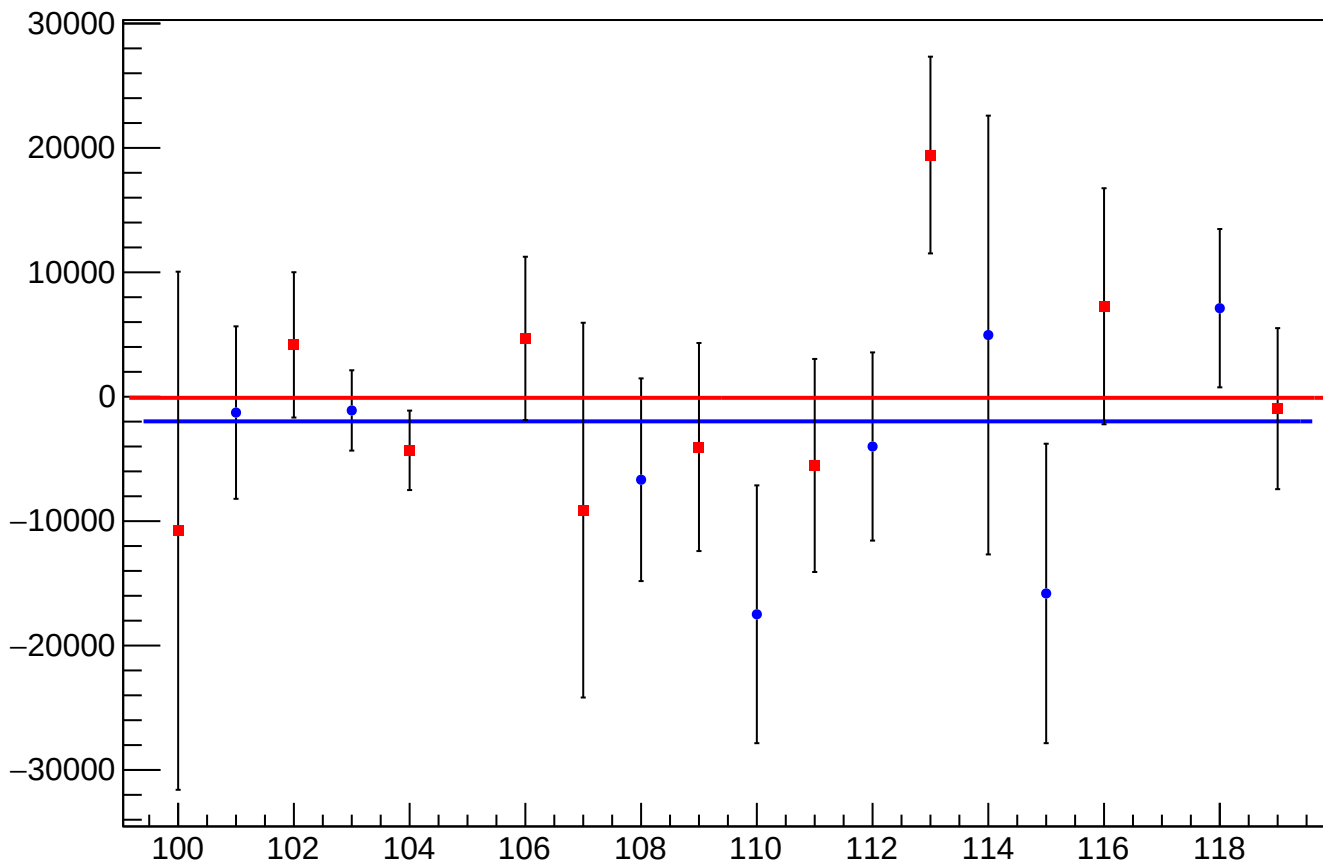
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1882.604+/-0.501  $\chi^2/\text{NDF}$ : 375854.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_cor\_correction\_mean vs Slug



Right In: -1979.602+/-2273.658  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -88.208+/-2057.508  $\chi^2/\text{NDF}$ : 10.8/9

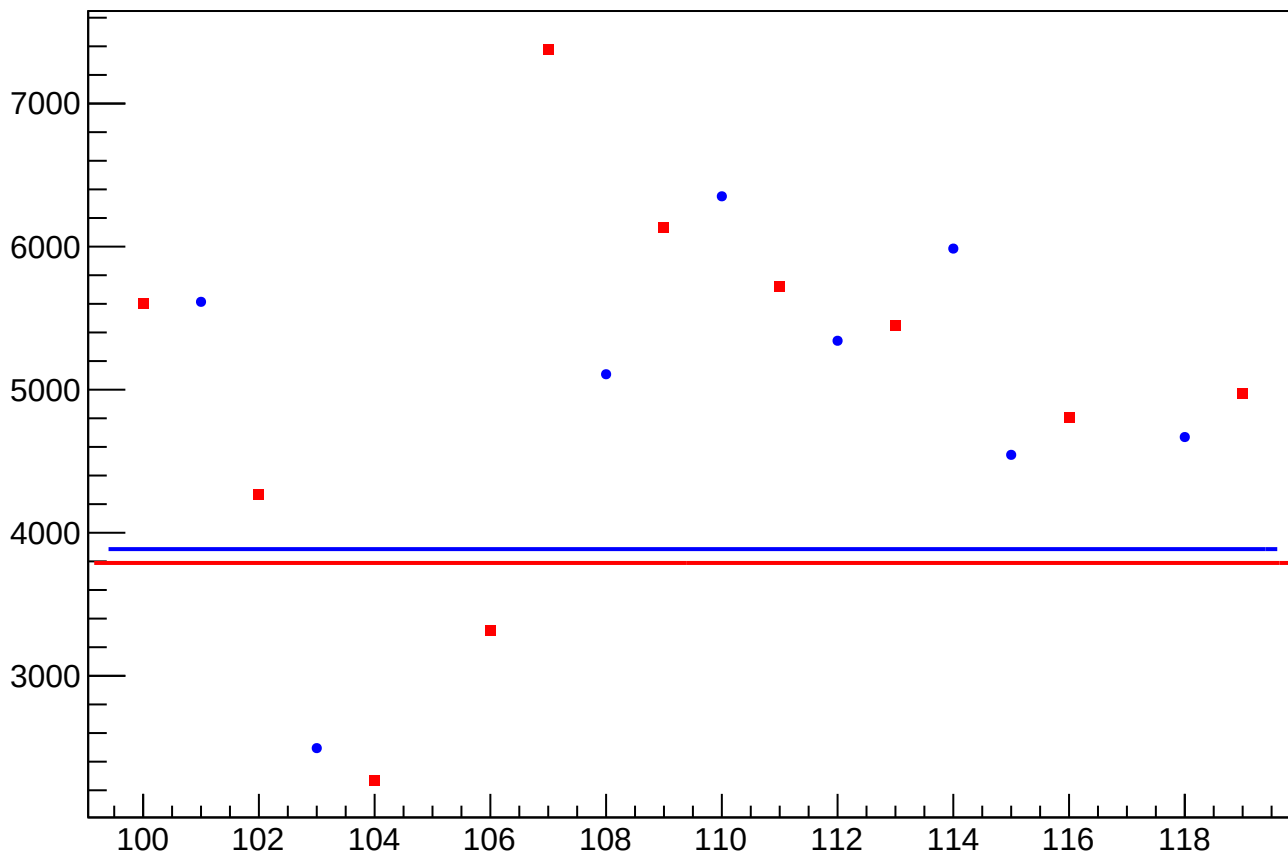
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -939.748+/-1525.586  $\chi^2/\text{NDF}$ : 17.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_cor\_correction\_rms vs Slug



Right In: 3885.695+/-1.608  $\chi^2/\text{NDF}$ : 792772.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3788.911+/-1.455  $\chi^2/\text{NDF}$ : 1042924.8/9

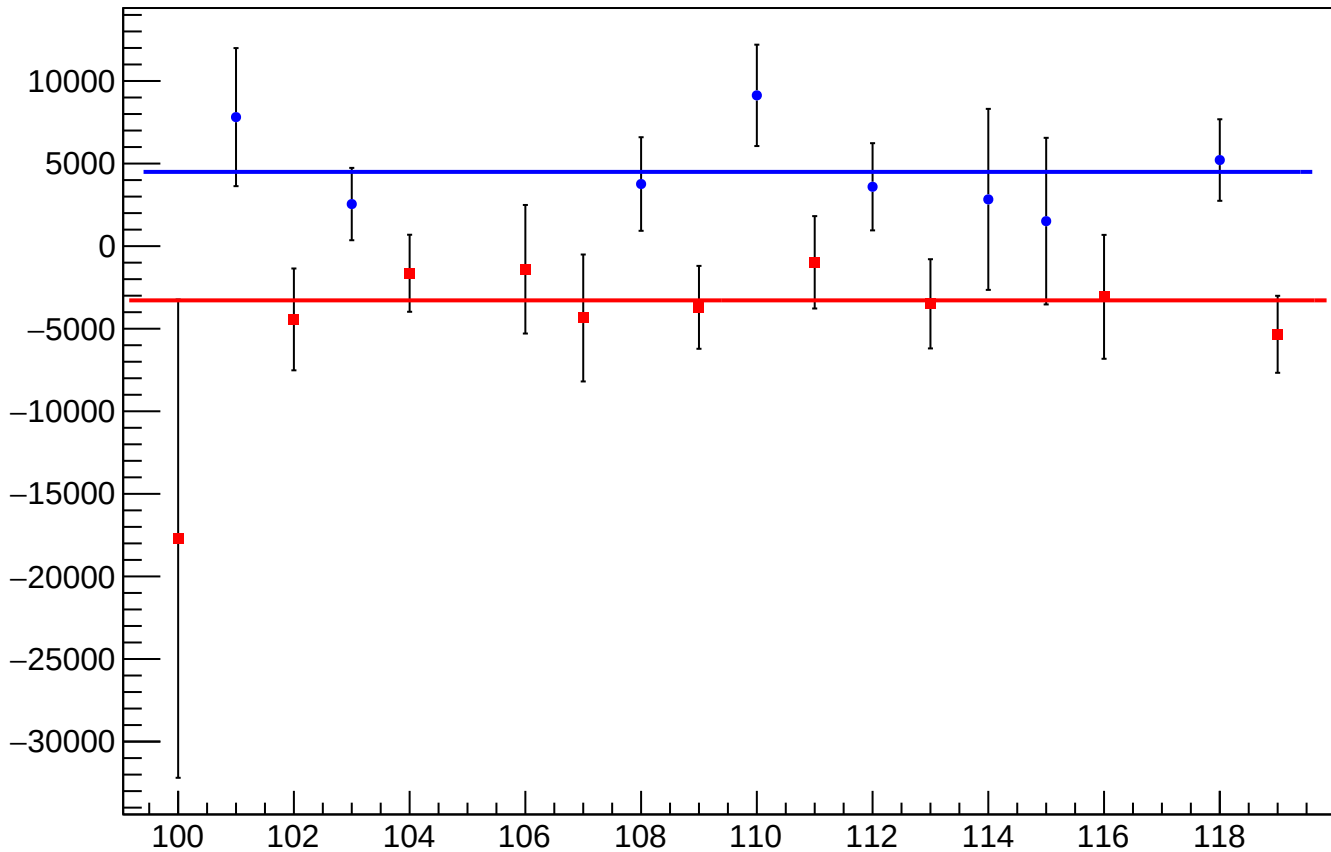
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3832.485+/-1.079  $\chi^2/\text{NDF}$ : 1837689.3/17

- 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: 4495.961 $\pm$ 1068.134  $\chi^2$ /NDF: 4.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3283.802 $\pm$ 950.816  $\chi^2$ /NDF: 3.4/9

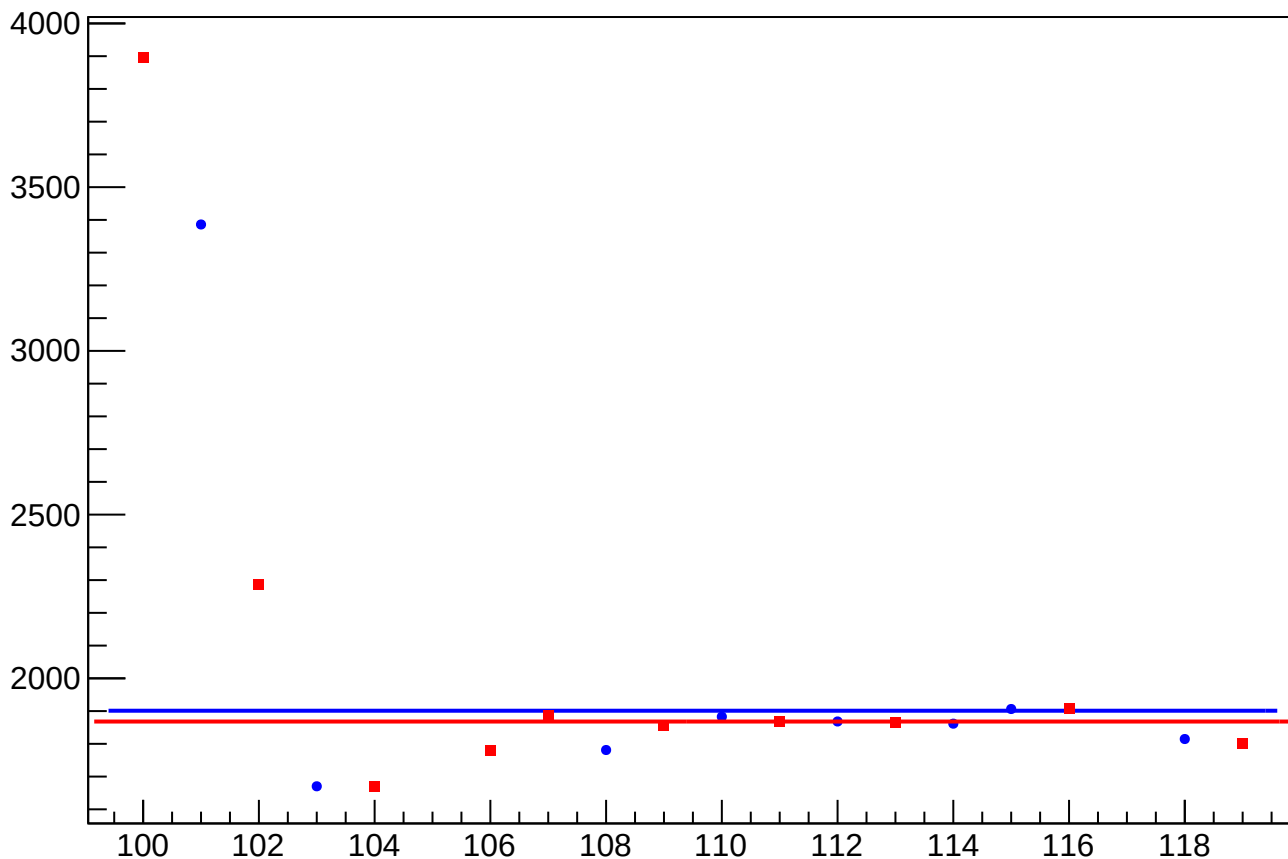
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 155.530 $\pm$ 710.198  $\chi^2$ /NDF: 37.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 1901.105+/-0.755  $\chi^2/\text{NDF}$ : 281086.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1868.092+/-0.669  $\chi^2/\text{NDF}$ : 93697.8/9

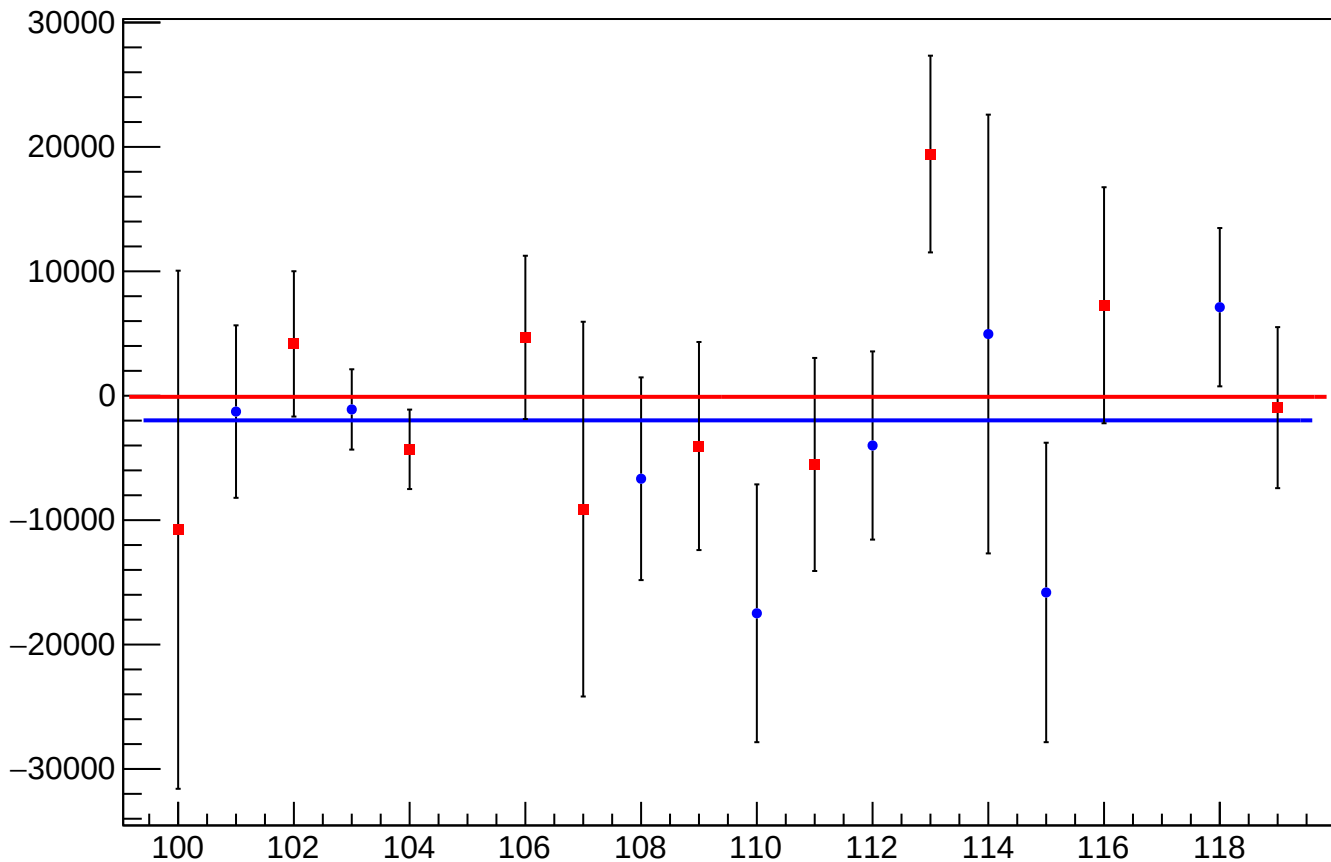
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1882.604+/-0.501  $\chi^2/\text{NDF}$ : 375854.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -1979.602+/-2273.658  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -88.208+/-2057.508  $\chi^2/\text{NDF}$ : 10.8/9

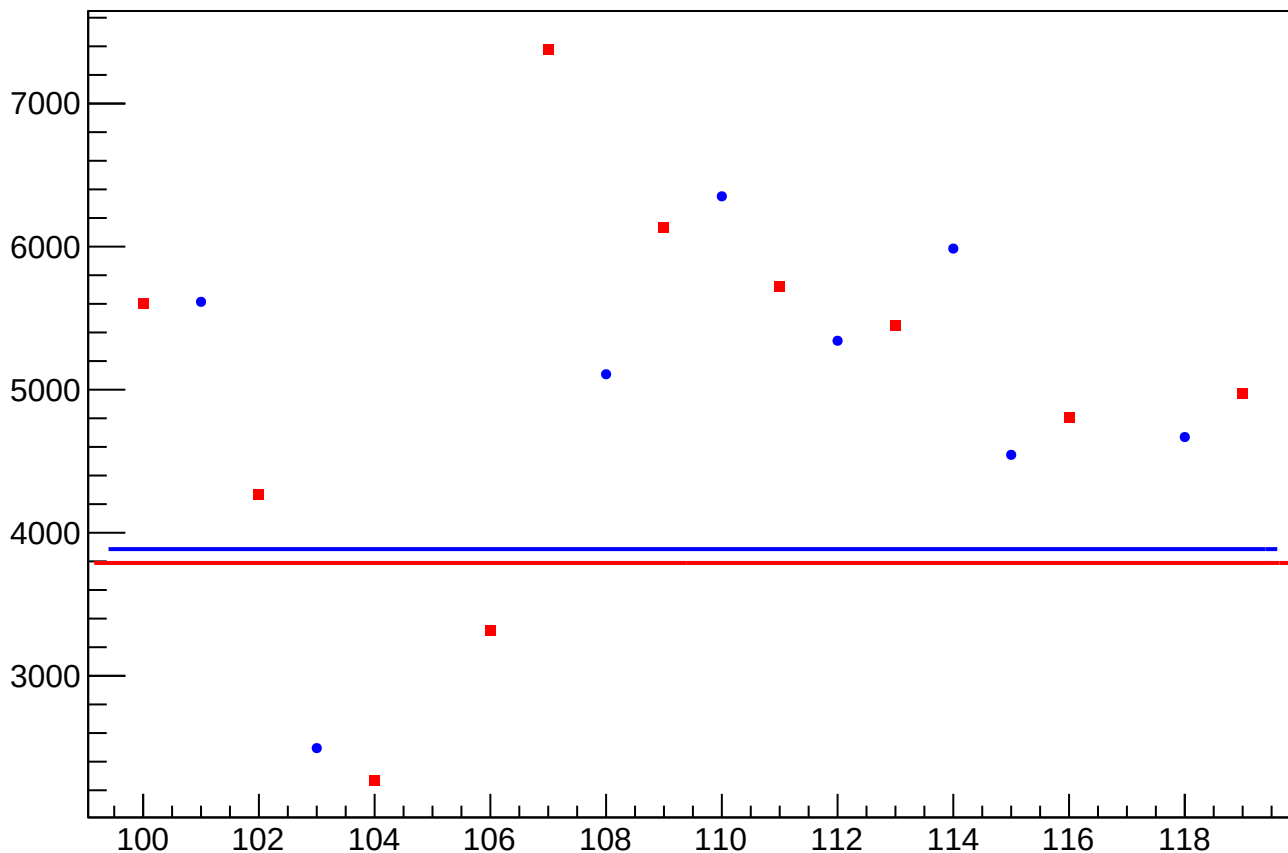
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -939.748+/-1525.586  $\chi^2/\text{NDF}$ : 17.4/17

- 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: 3885.695+/-1.608  $\chi^2/\text{NDF}$ : 792772.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3788.911+/-1.455  $\chi^2/\text{NDF}$ : 1042924.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

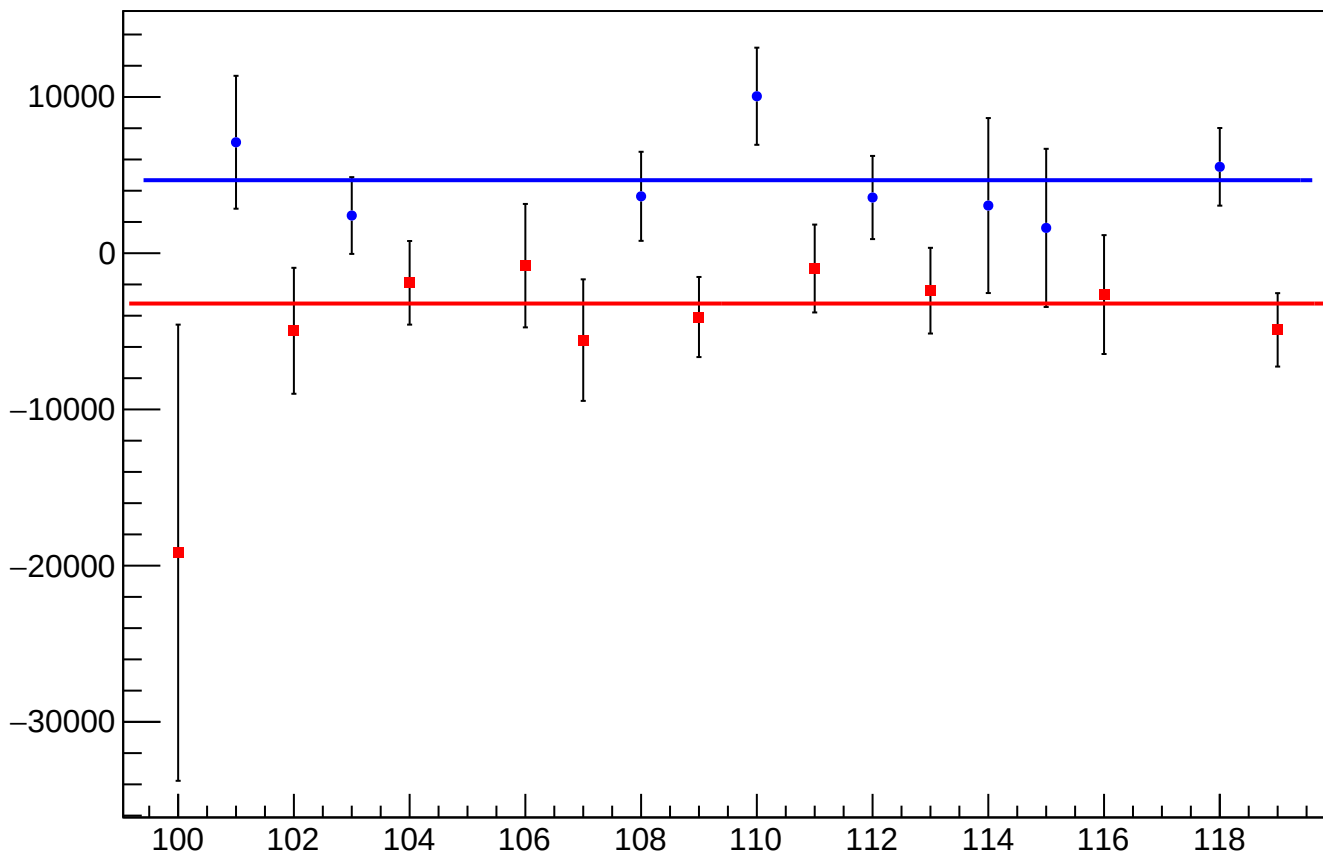
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3832.485+/-1.079  $\chi^2/\text{NDF}$ : 1837689.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug



Right In: 4673.728 $\pm$ 1103.365  $\chi^2$ /NDF: 5.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3221.604 $\pm$ 1001.251  $\chi^2$ /NDF: 3.7/9

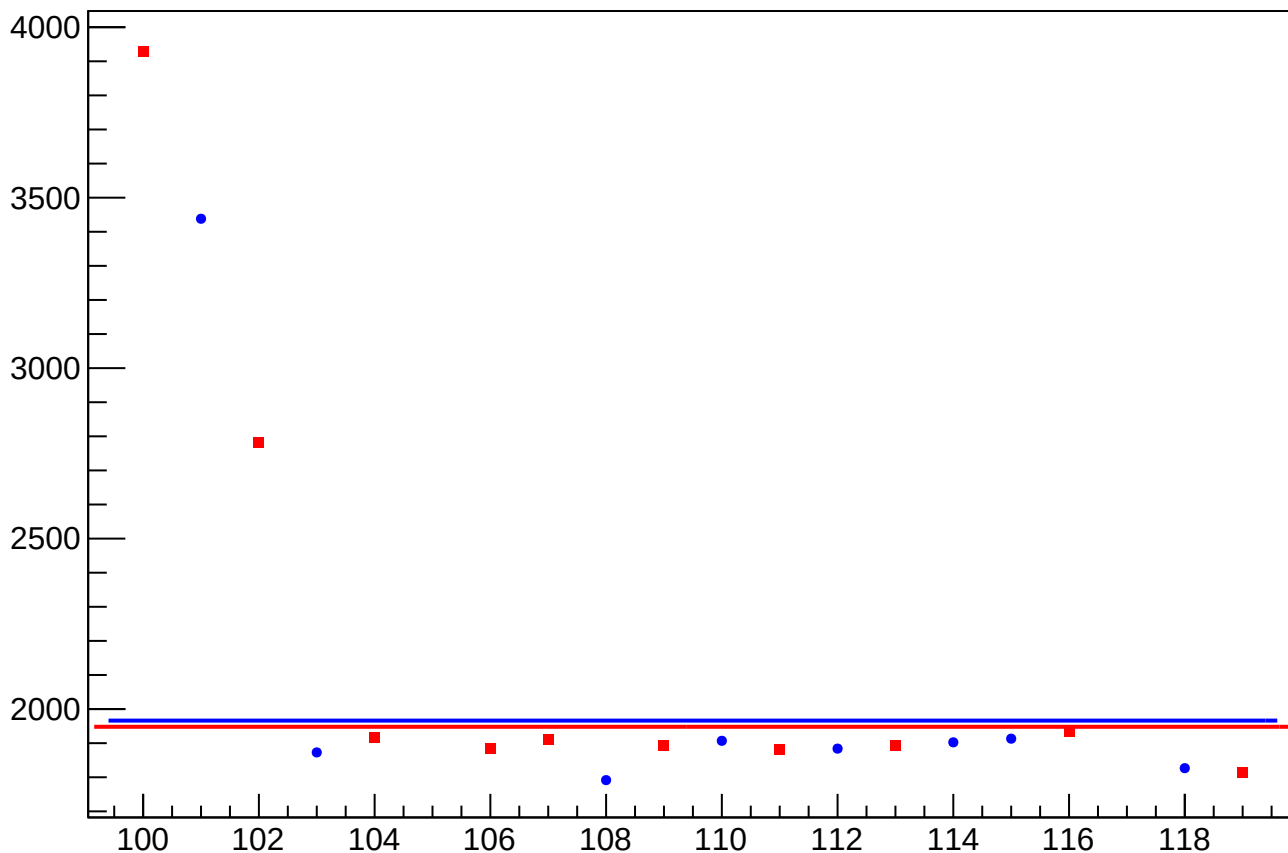
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 343.887 $\pm$ 741.470  $\chi^2$ /NDF: 36.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 1966.199+/-0.780  $\chi^2/\text{NDF}$ : 259333.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1948.046+/-0.707  $\chi^2/\text{NDF}$ : 132626.9/9

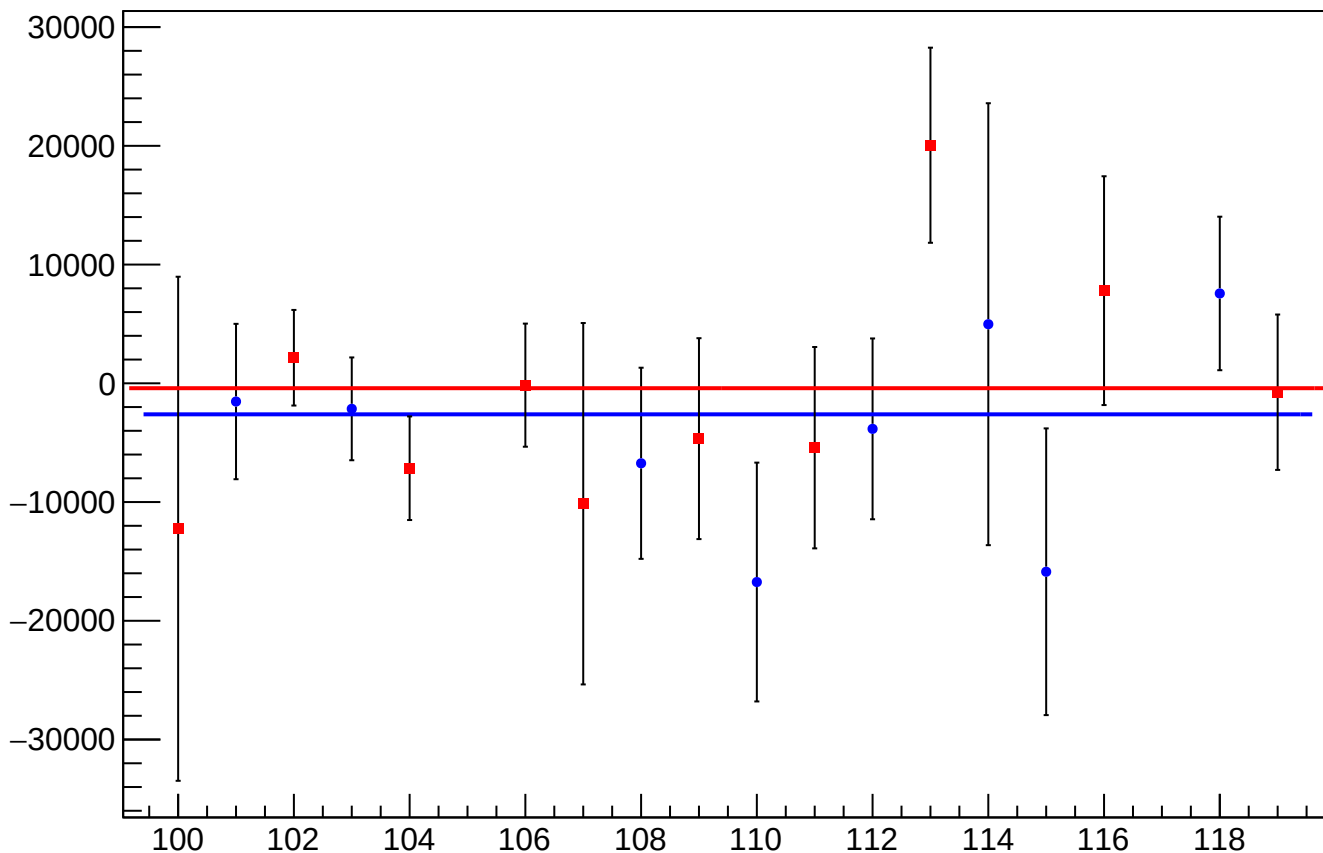
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1956.225+/-0.524  $\chi^2/\text{NDF}$ : 392257.9/17

- 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: -2612.581+/-2556.788  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -412.058+/-2063.566  $\chi^2/\text{NDF}$ : 11.0/9

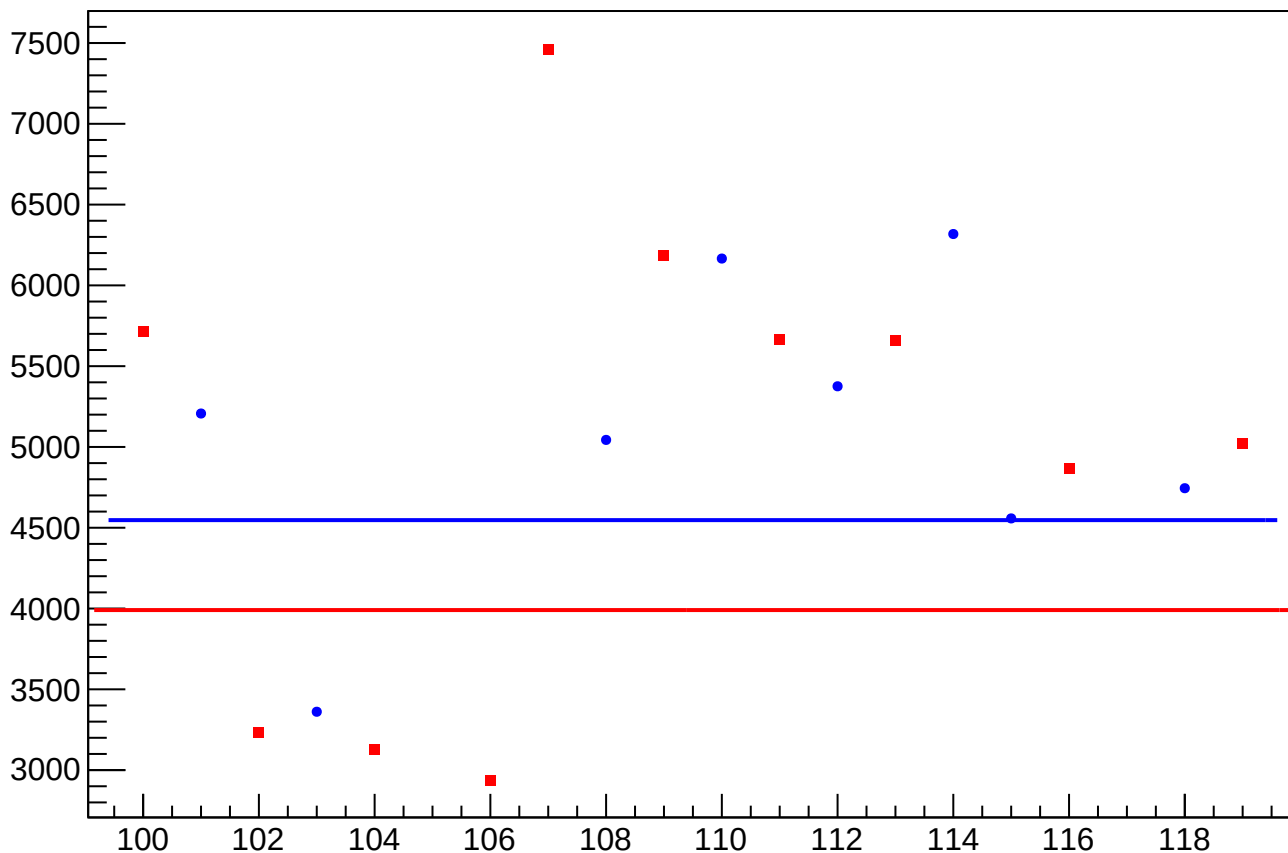
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1280.060+/-1605.803  $\chi^2/\text{NDF}$ : 17.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_dit\_correction\_rms vs Slug



Right In: 4547.163+/-1.808  $\chi^2/\text{NDF}$ : 273530.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3990.495+/-1.459  $\chi^2/\text{NDF}$ : 709749.0/9

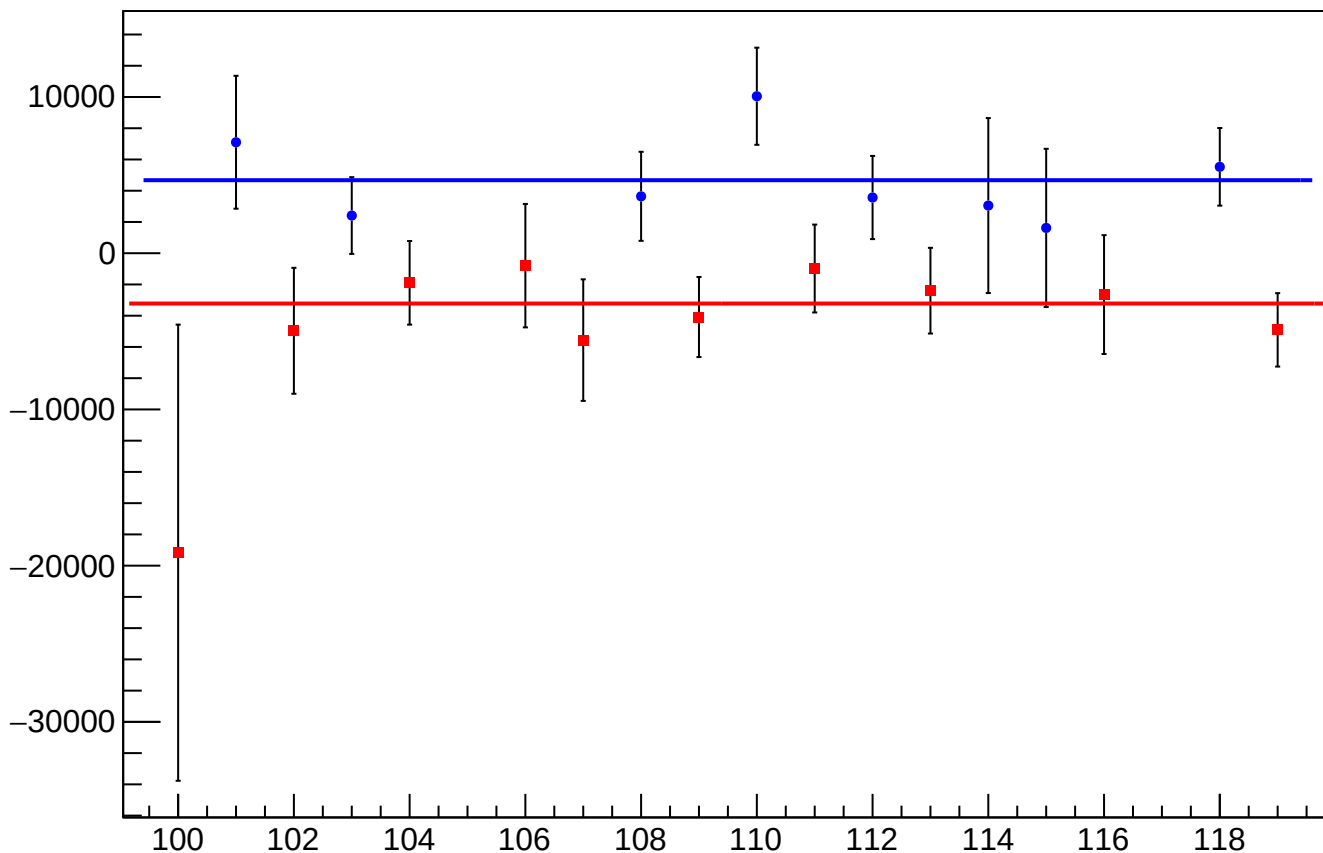
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4210.075+/-1.135  $\chi^2/\text{NDF}$ : 1040688.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug



Right In: 4673.731+/-1103.365  $\chi^2$ /NDF: 5.0/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3221.606+/-1001.250  $\chi^2$ /NDF: 3.7/9

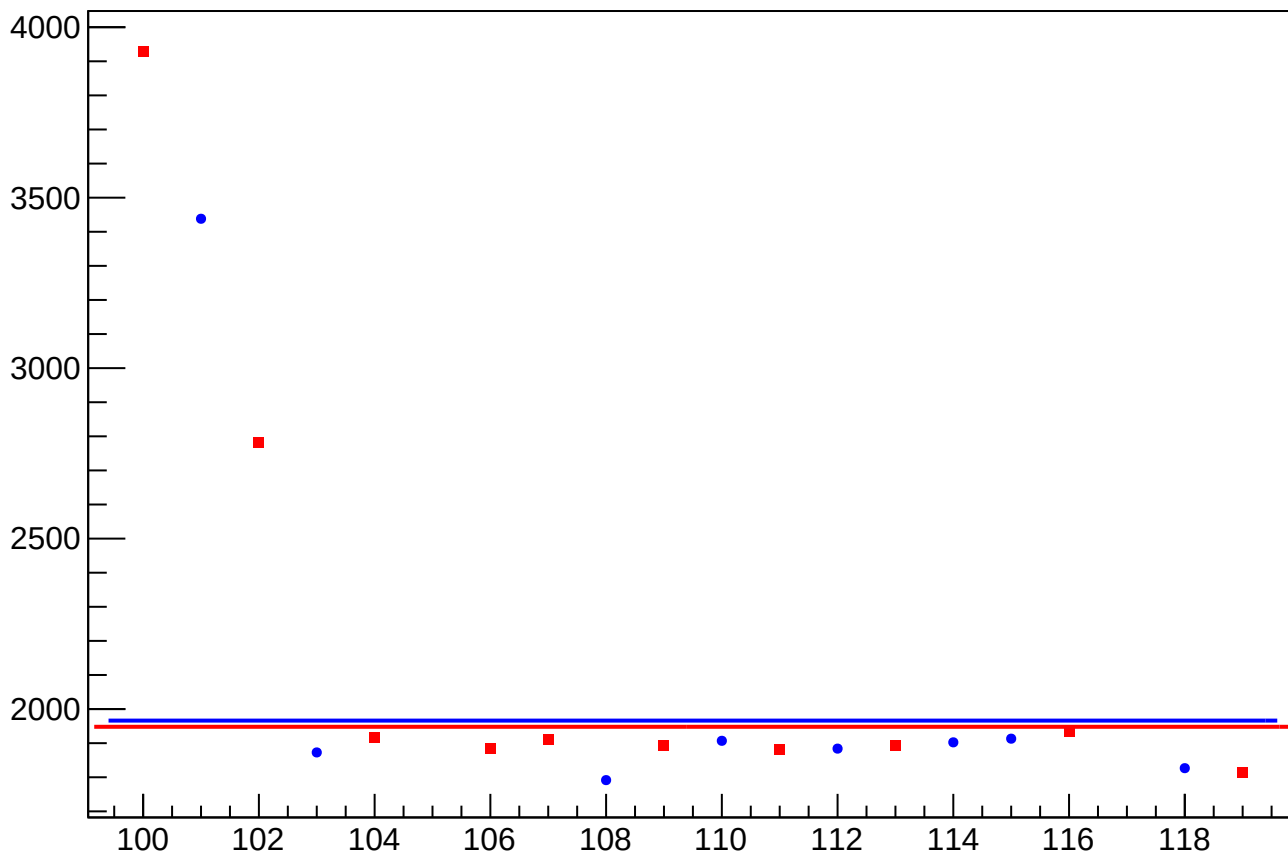
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 343.887+/-741.470  $\chi^2$ /NDF: 36.9/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 1966.198+/-0.780  $\chi^2/\text{NDF}$ : 259333.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1948.045+/-0.707  $\chi^2/\text{NDF}$ : 132626.4/9

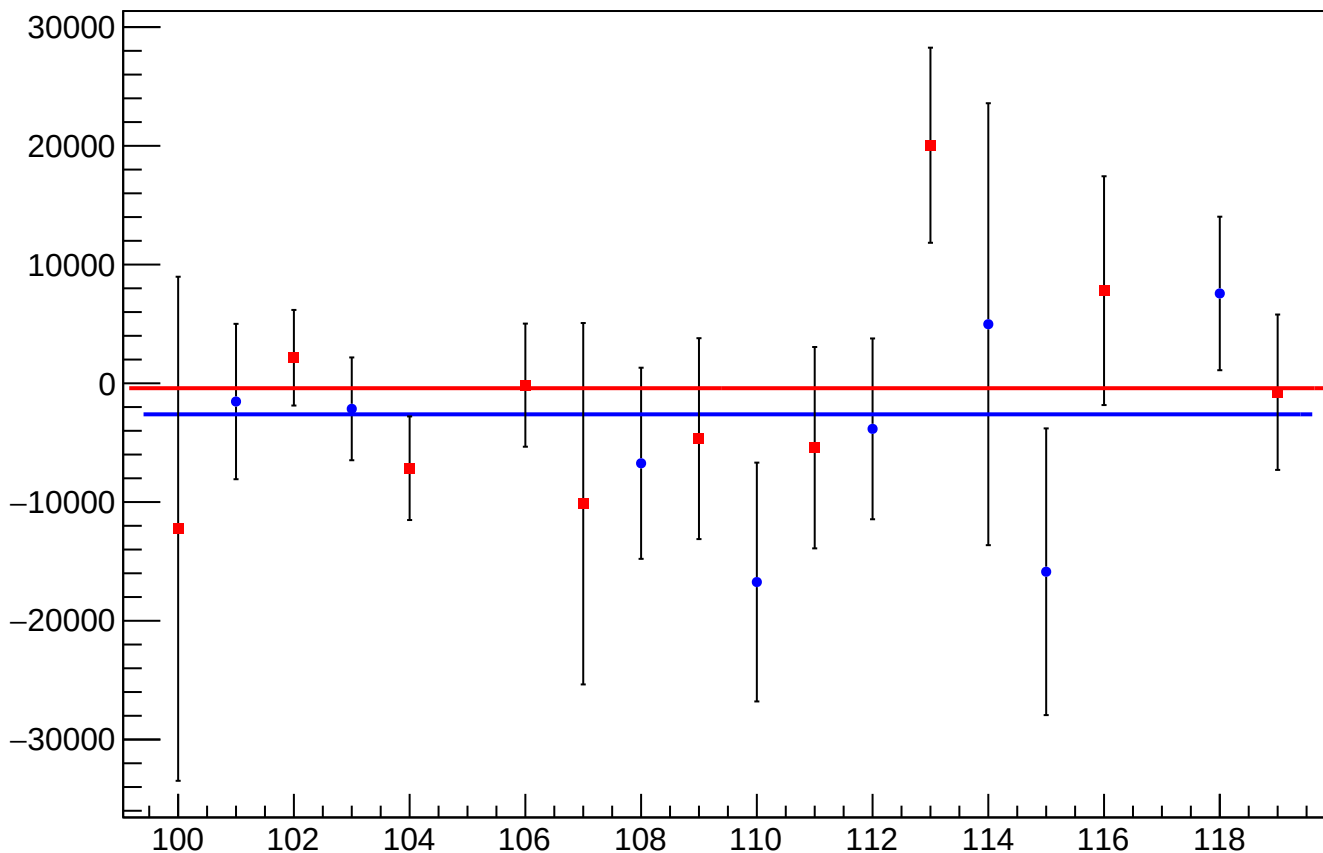
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1956.224+/-0.524  $\chi^2/\text{NDF}$ : 392257.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -2612.573+/-2556.781  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -412.058+/-2063.560  $\chi^2/\text{NDF}$ : 11.0/9

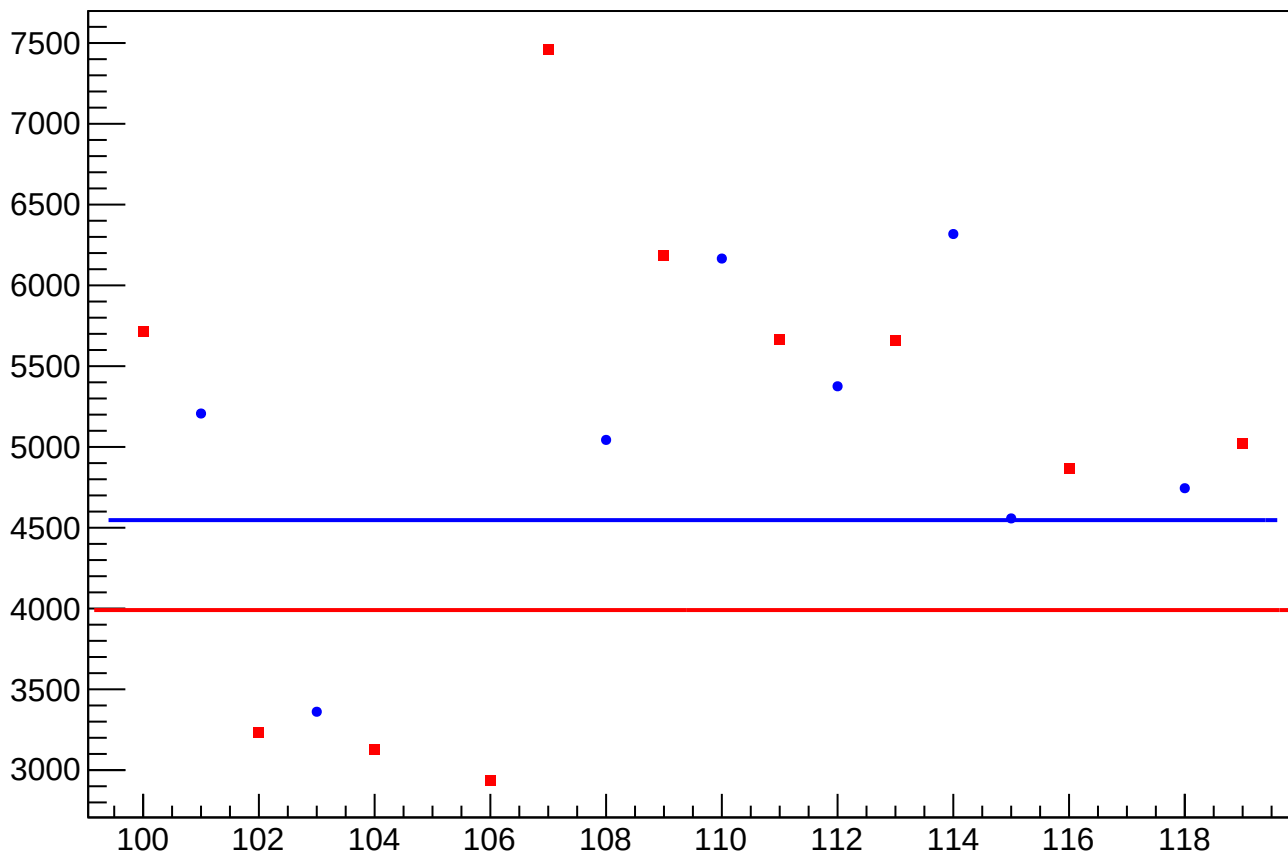
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1280.058+/-1605.799  $\chi^2/\text{NDF}$ : 17.6/17

- 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: 4547.151+/-1.808  $\chi^2/\text{NDF}$ : 273530.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3990.485+/-1.459  $\chi^2/\text{NDF}$ : 709747.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

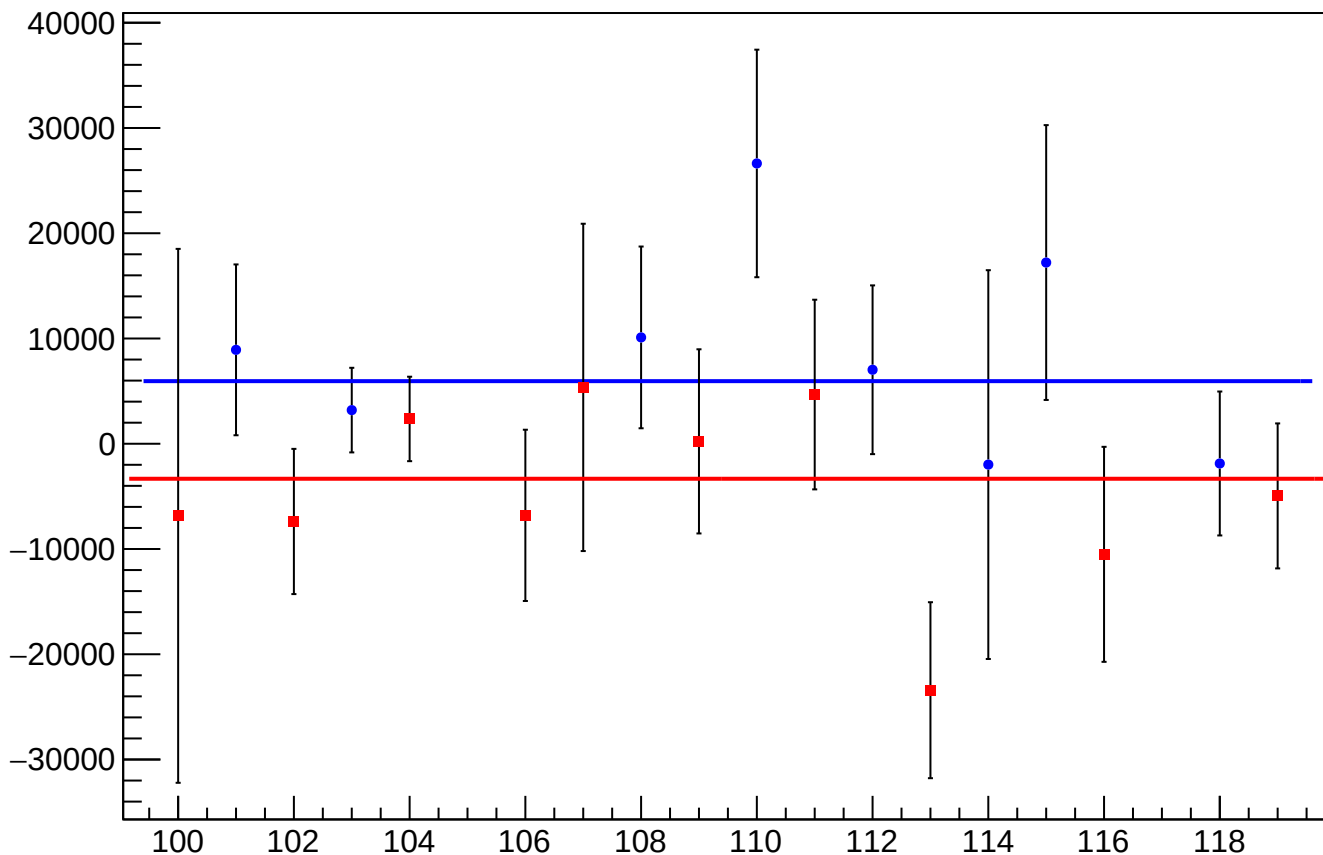
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4210.064+/-1.135  $\chi^2/\text{NDF}$ : 1040687.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug



Right In: 5947.672 $\pm$ 2627.787  $\chi^2$ /NDF: 6.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3326.536 $\pm$ 2395.303  $\chi^2$ /NDF: 10.1/9

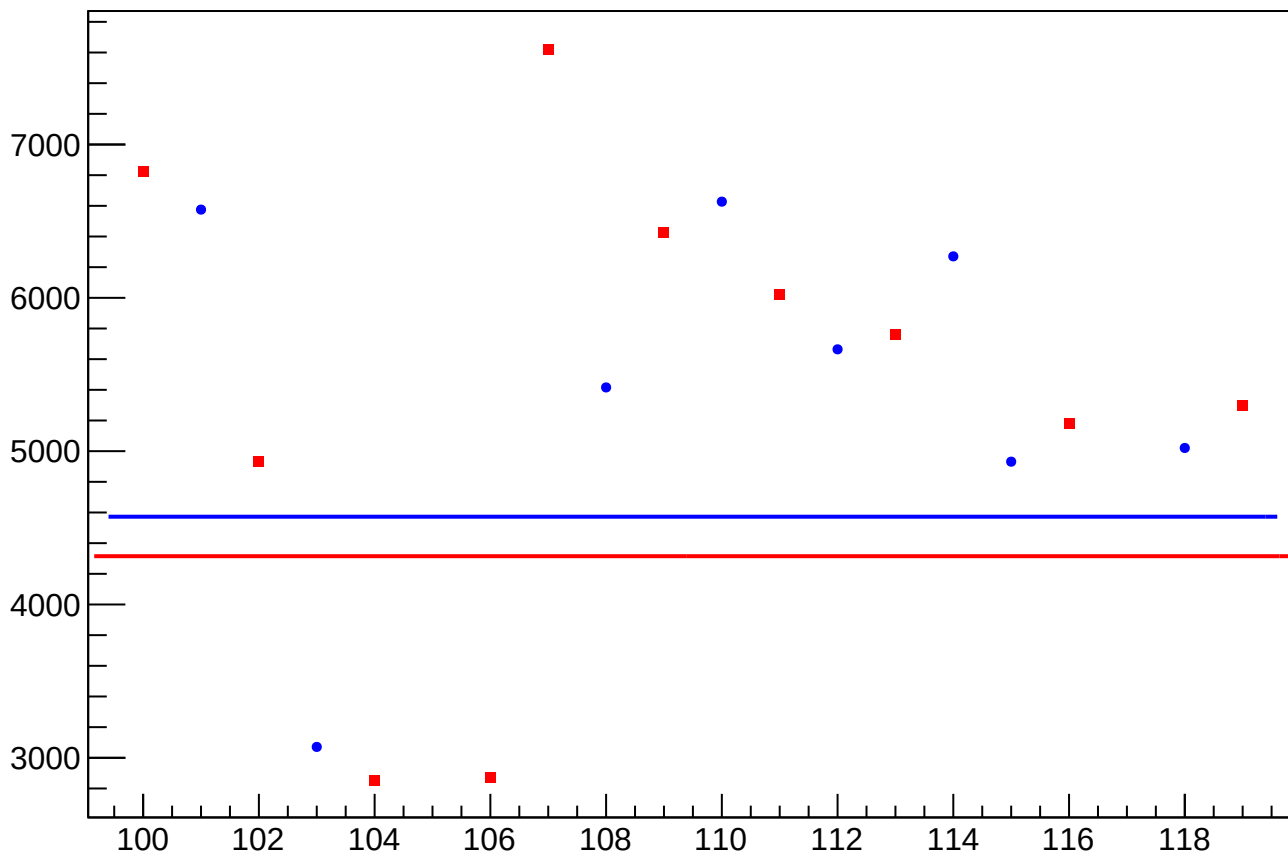
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 882.246 $\pm$ 1770.231  $\chi^2$ /NDF: 23.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 4572.541+/-1.858  $\chi^2/\text{NDF}$ : 556445.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4315.002+/-1.642  $\chi^2/\text{NDF}$ : 804540.2/9

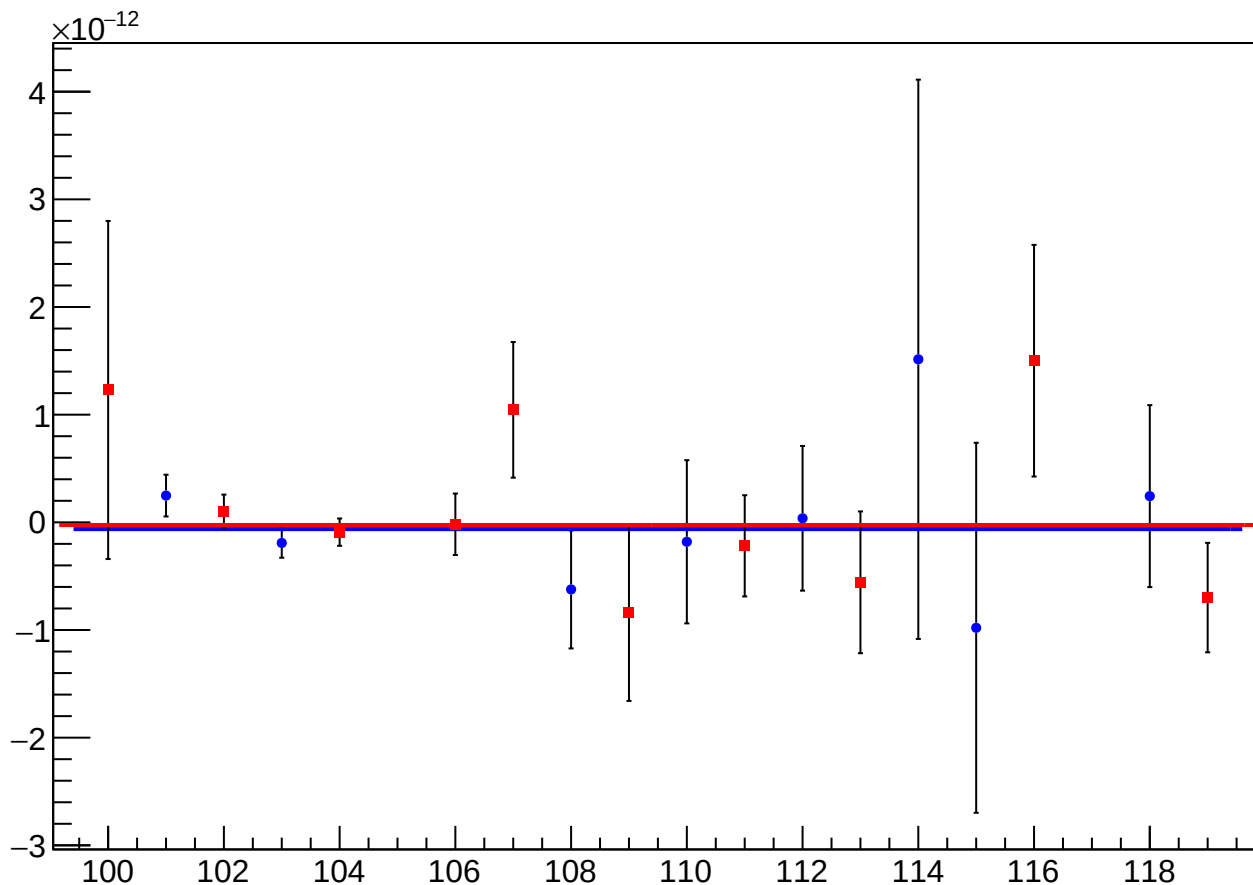
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4427.898+/-1.230  $\chi^2/\text{NDF}$ : 1371775.2/17

- sign 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  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.1/9

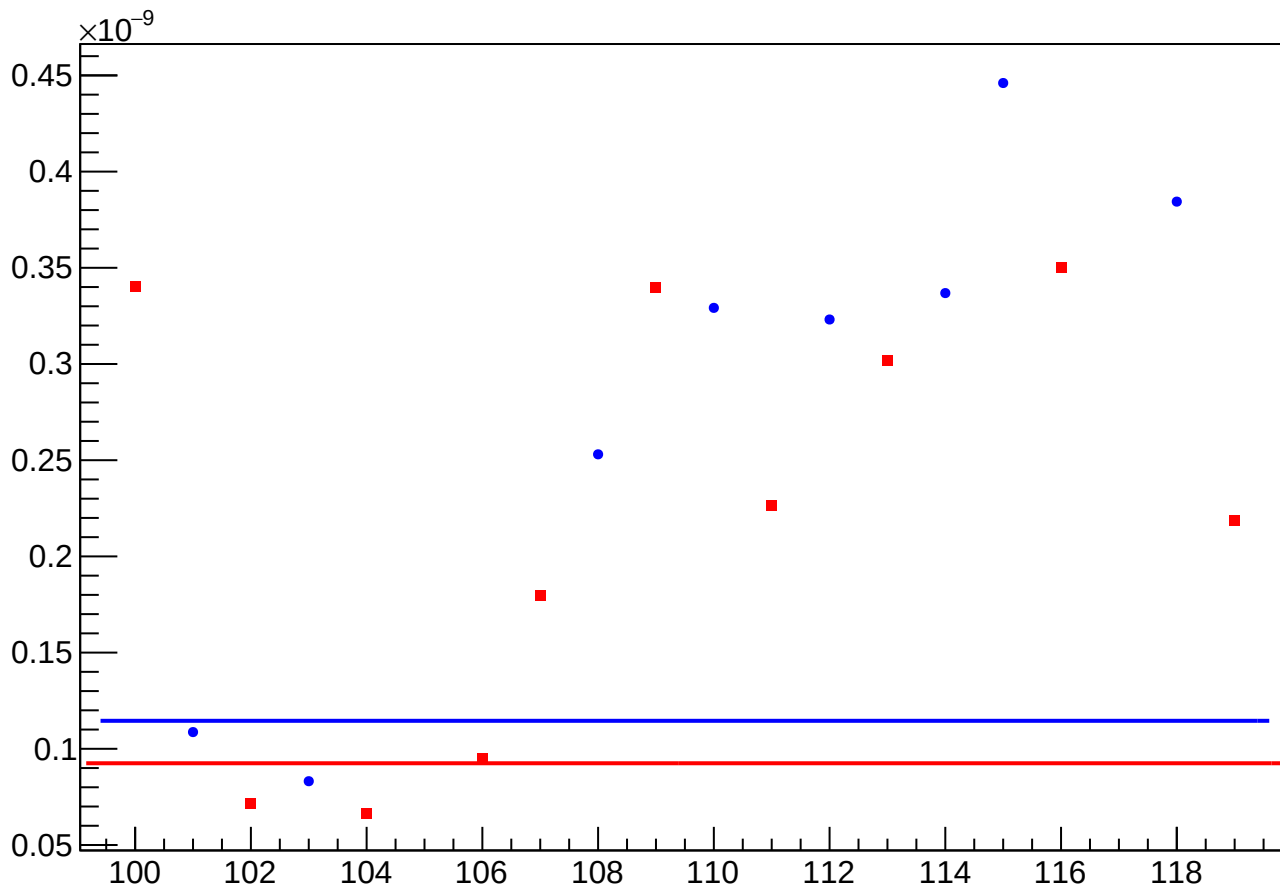
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.5/17

- 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  $\chi^2/\text{NDF}$ : 879946.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 995174.3/9

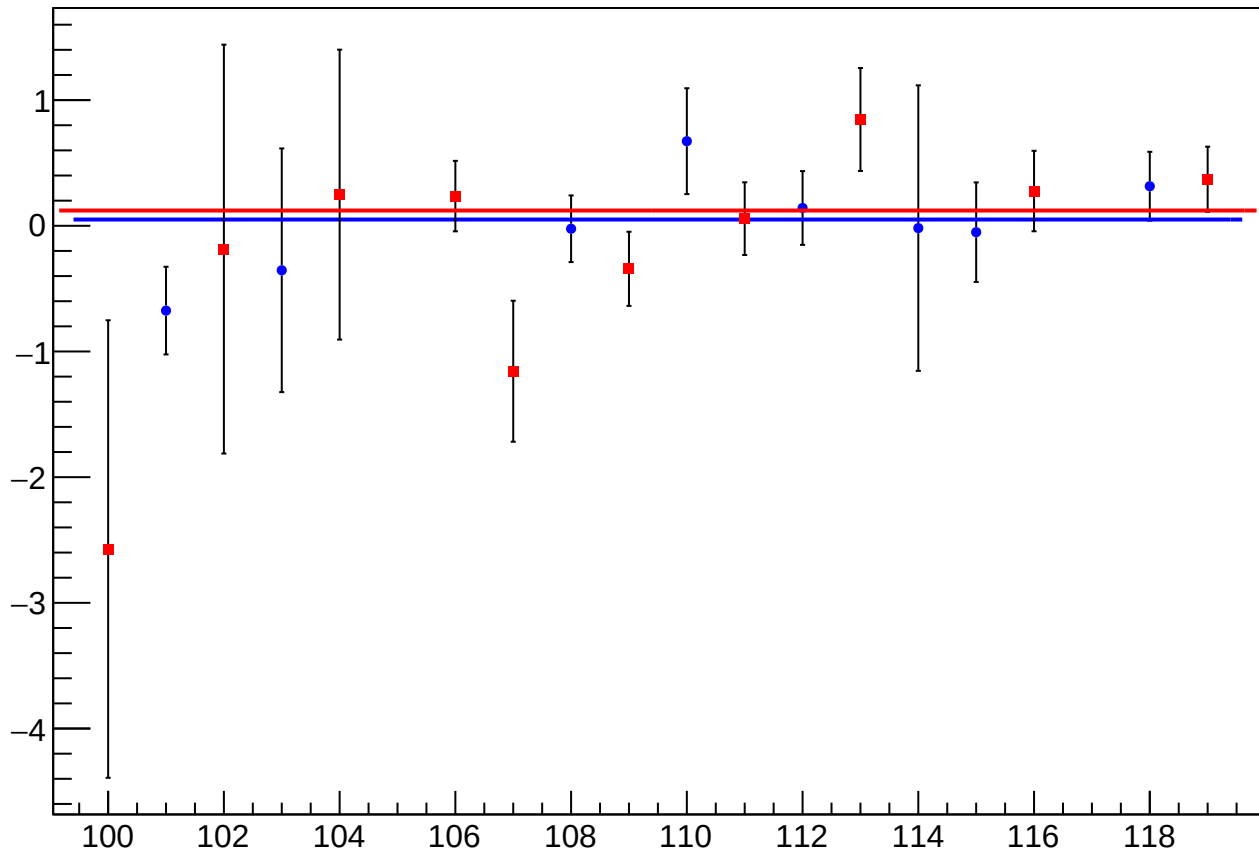
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1926895.1/17

- 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: 0.050+/-0.128  $\chi^2/\text{NDF}$ : 7.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.122+/-0.118  $\chi^2/\text{NDF}$ : 14.4/9

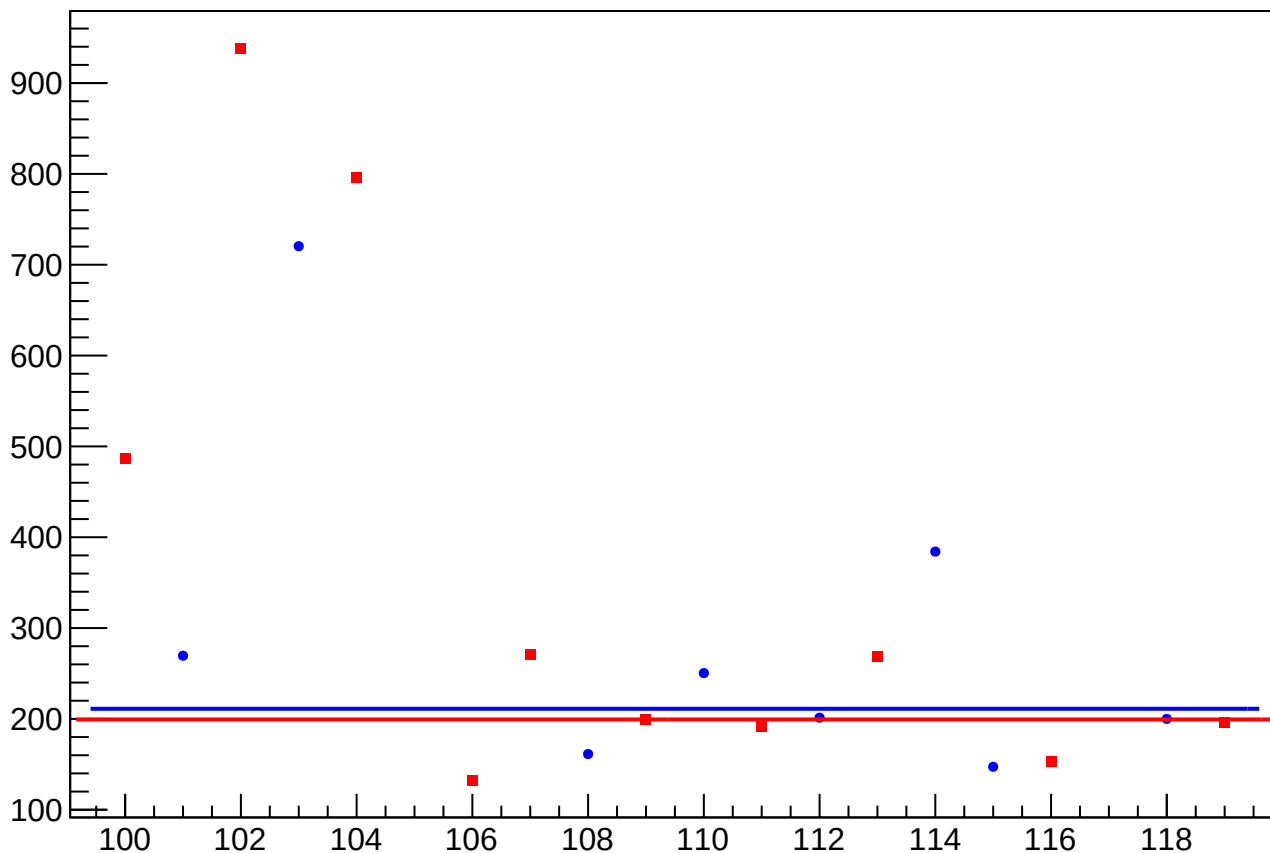
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.088+/-0.087  $\chi^2/\text{NDF}$ : 22.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 211.143+/-0.090  $\chi^2/\text{NDF}$ : 799884.7/7

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

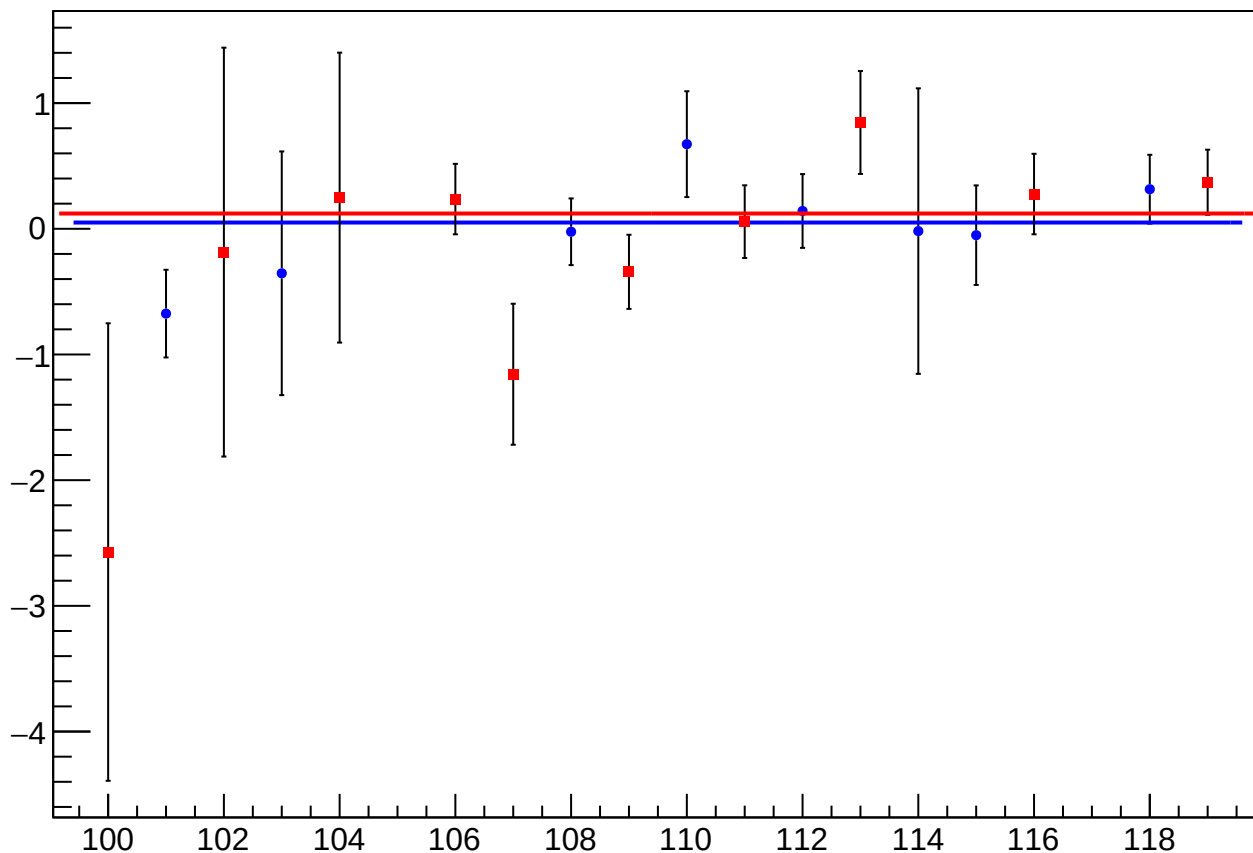
Right Out: 199.397+/-0.084  $\chi^2/\text{NDF}$ : 1245883.4/9

All: 204.820+/-0.061  $\chi^2/\text{NDF}$ : 2054865.8/17

- 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\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.050 $\pm$ 0.128  $\chi^2$ /NDF: 7.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.122 $\pm$ 0.118  $\chi^2$ /NDF: 14.4/9

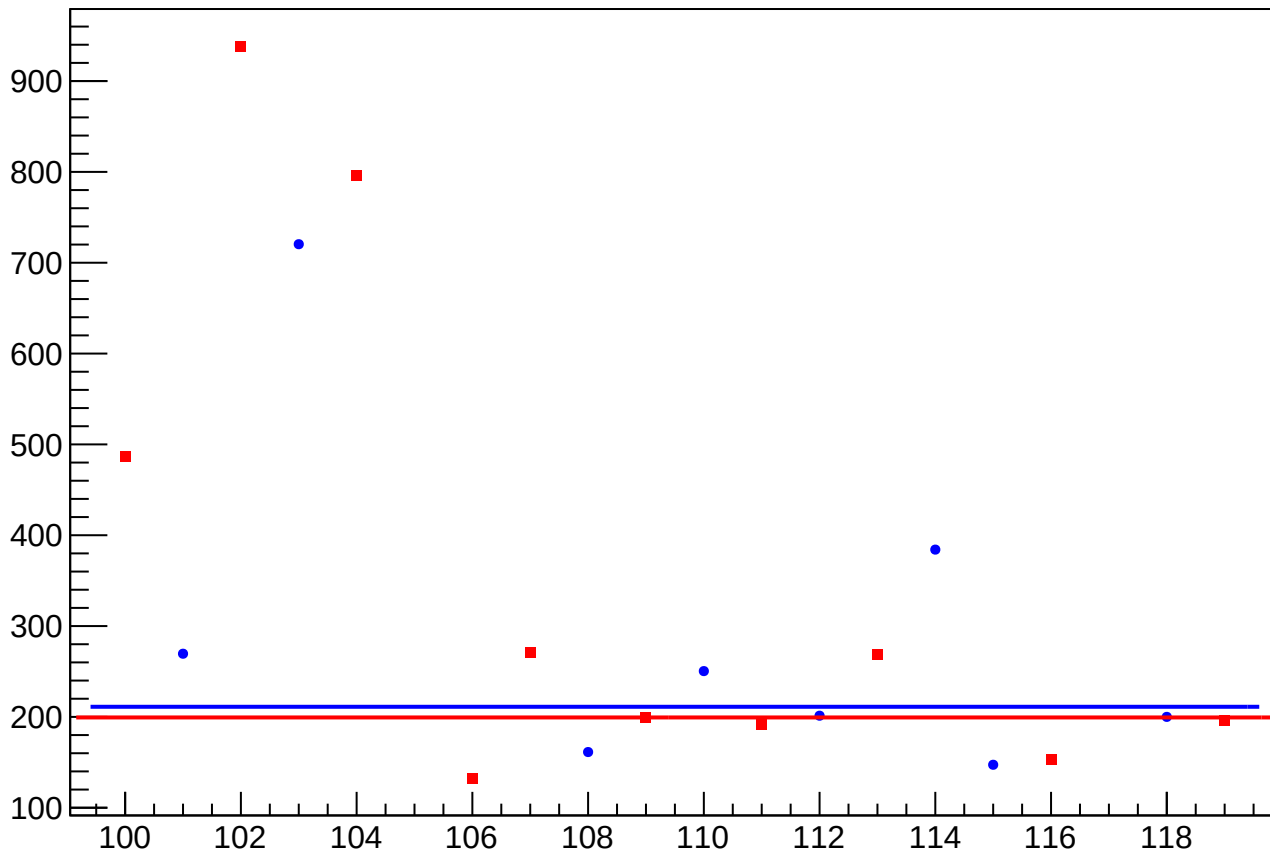
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.088 $\pm$ 0.087  $\chi^2$ /NDF: 22.4/17

- 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: 211.143+/-0.090  $\chi^2/\text{NDF}$ : 799884.7/7

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: 199.397+/-0.084  $\chi^2/\text{NDF}$ : 1245883.4/9

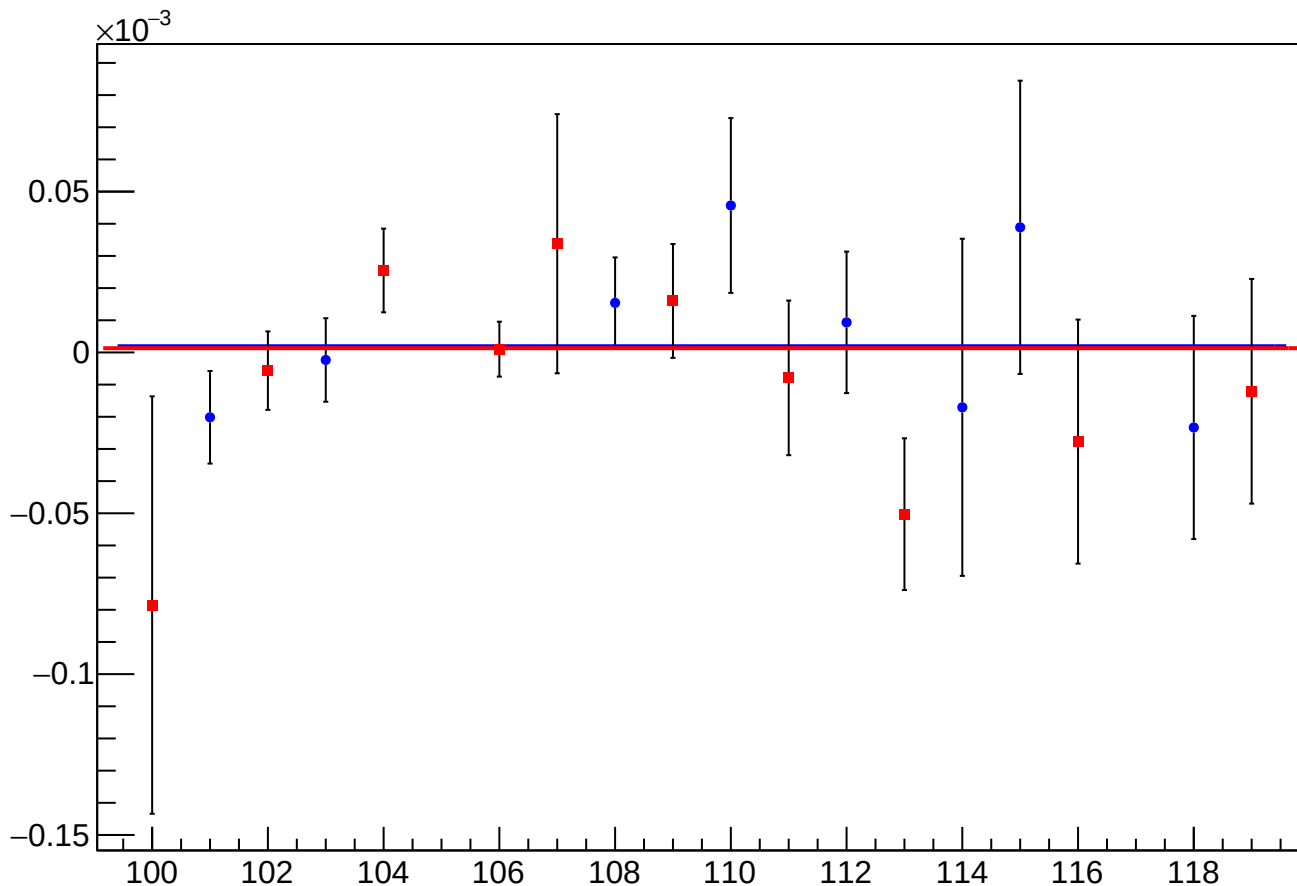
All: 204.820+/-0.061  $\chi^2/\text{NDF}$ : 2054865.8/17

- 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\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.3/9

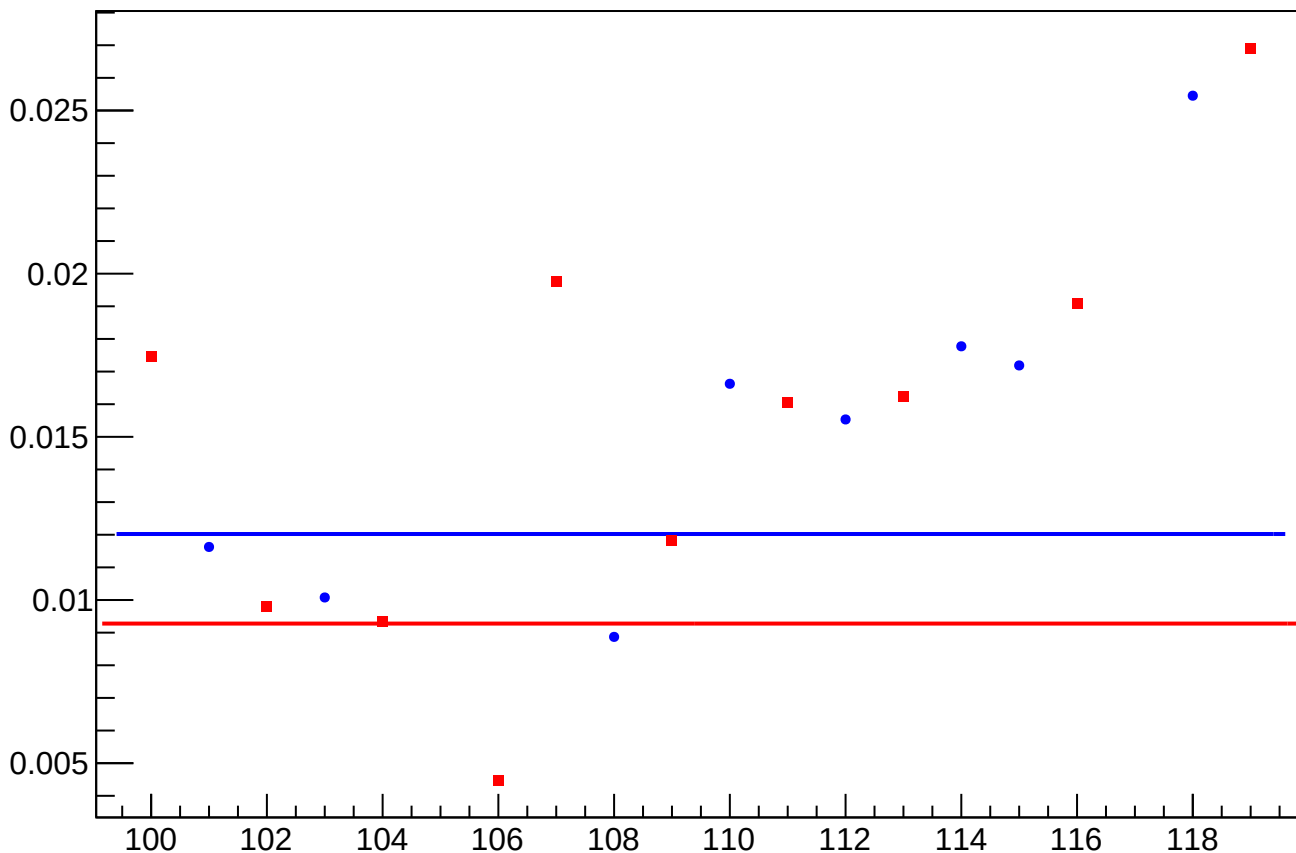
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 603861.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 1823838.5/9

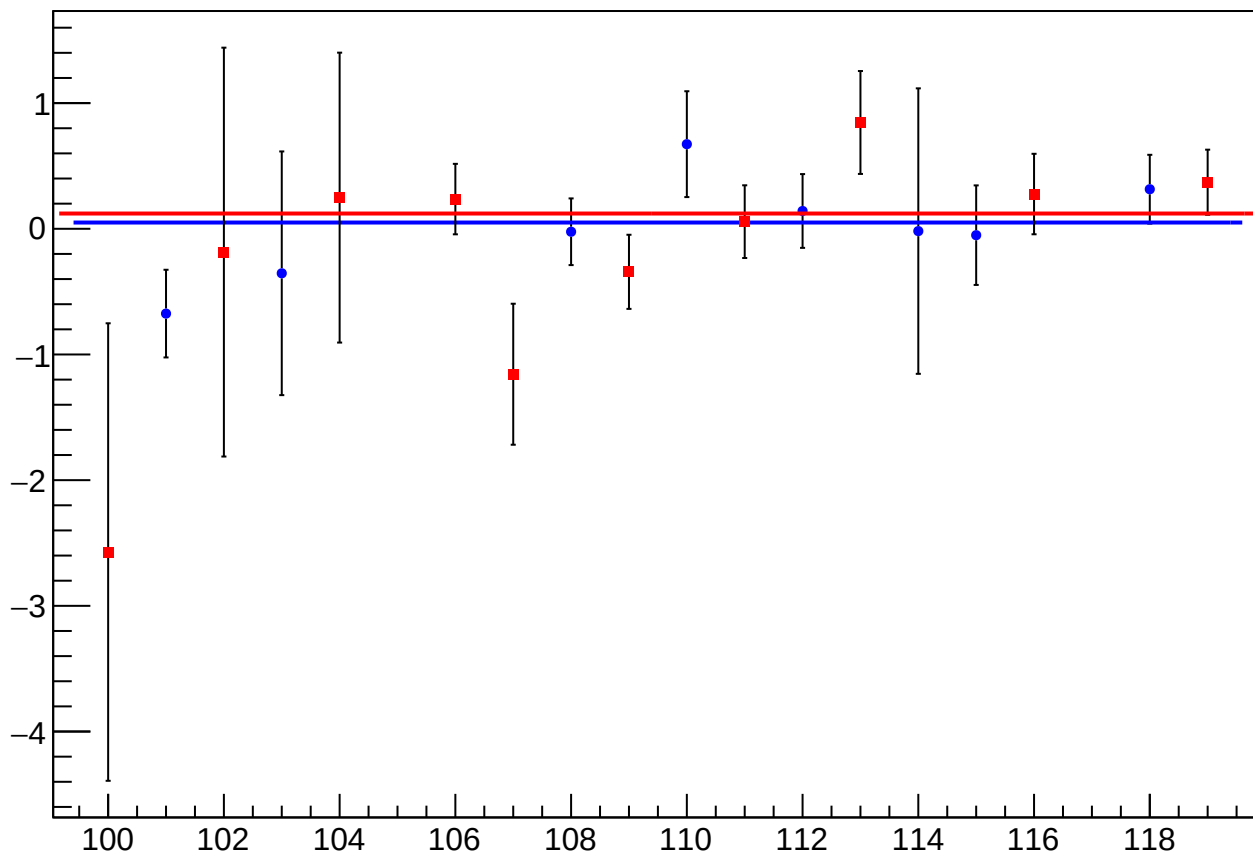
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 2625608.9/17

- 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: 0.050 $\pm$ 0.128  $\chi^2$ /NDF: 7.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.122 $\pm$ 0.118  $\chi^2$ /NDF: 14.4/9

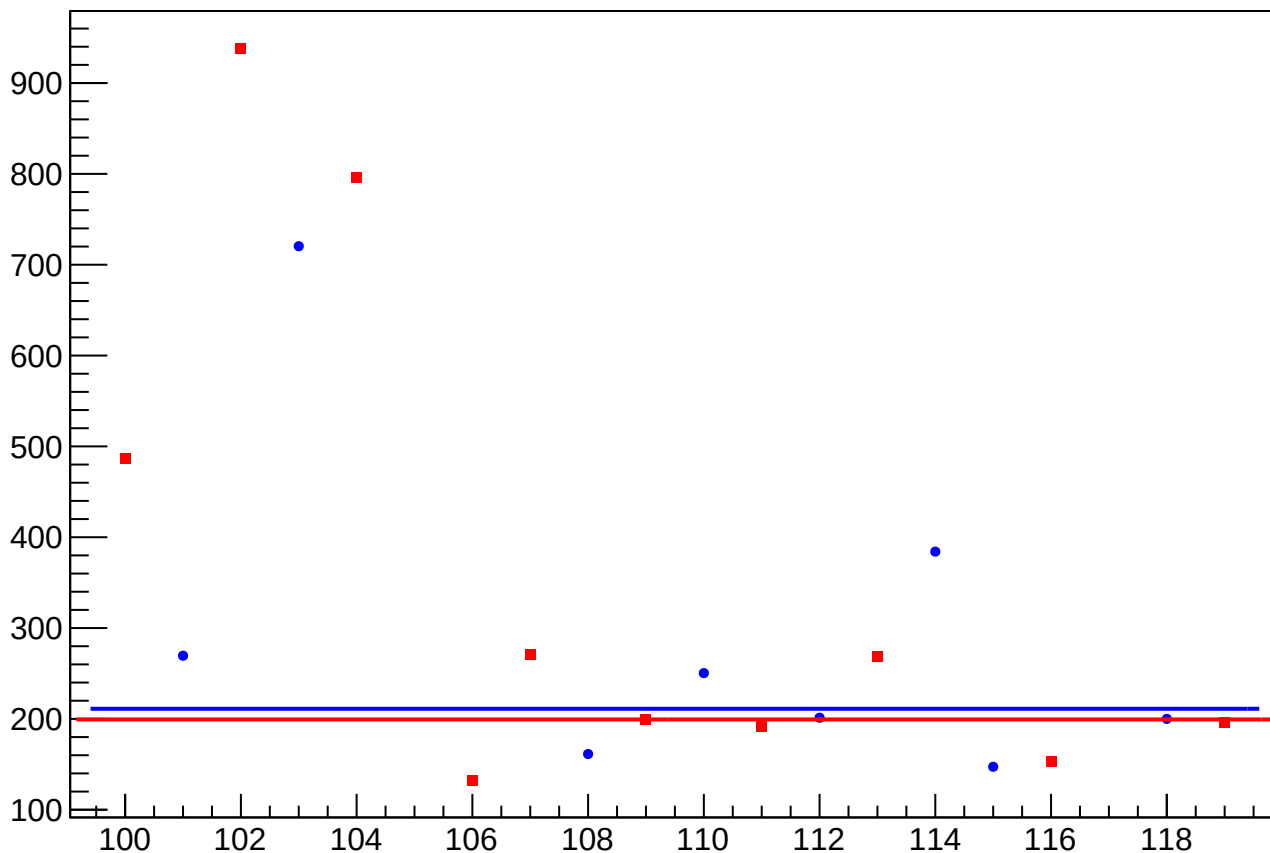
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.088 $\pm$ 0.087  $\chi^2$ /NDF: 22.4/17

- 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: 211.144 $\pm$ 0.090  $\chi^2$ /NDF: 799870.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 199.397 $\pm$ 0.084  $\chi^2$ /NDF: 1245868.1/9

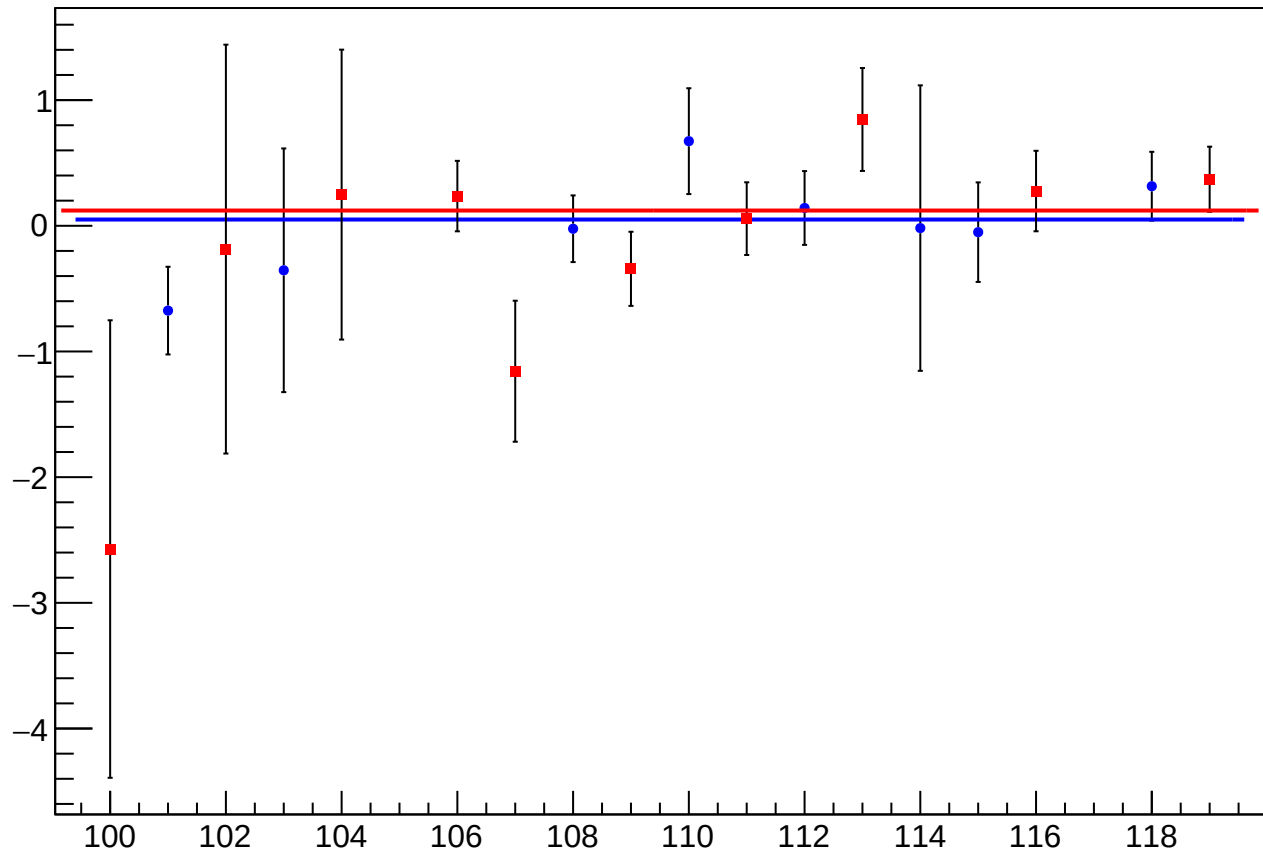
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 204.820 $\pm$ 0.061  $\chi^2$ /NDF: 2054836.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.050+/-0.128  $\chi^2/\text{NDF}$ : 7.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.122+/-0.118  $\chi^2/\text{NDF}$ : 14.4/9

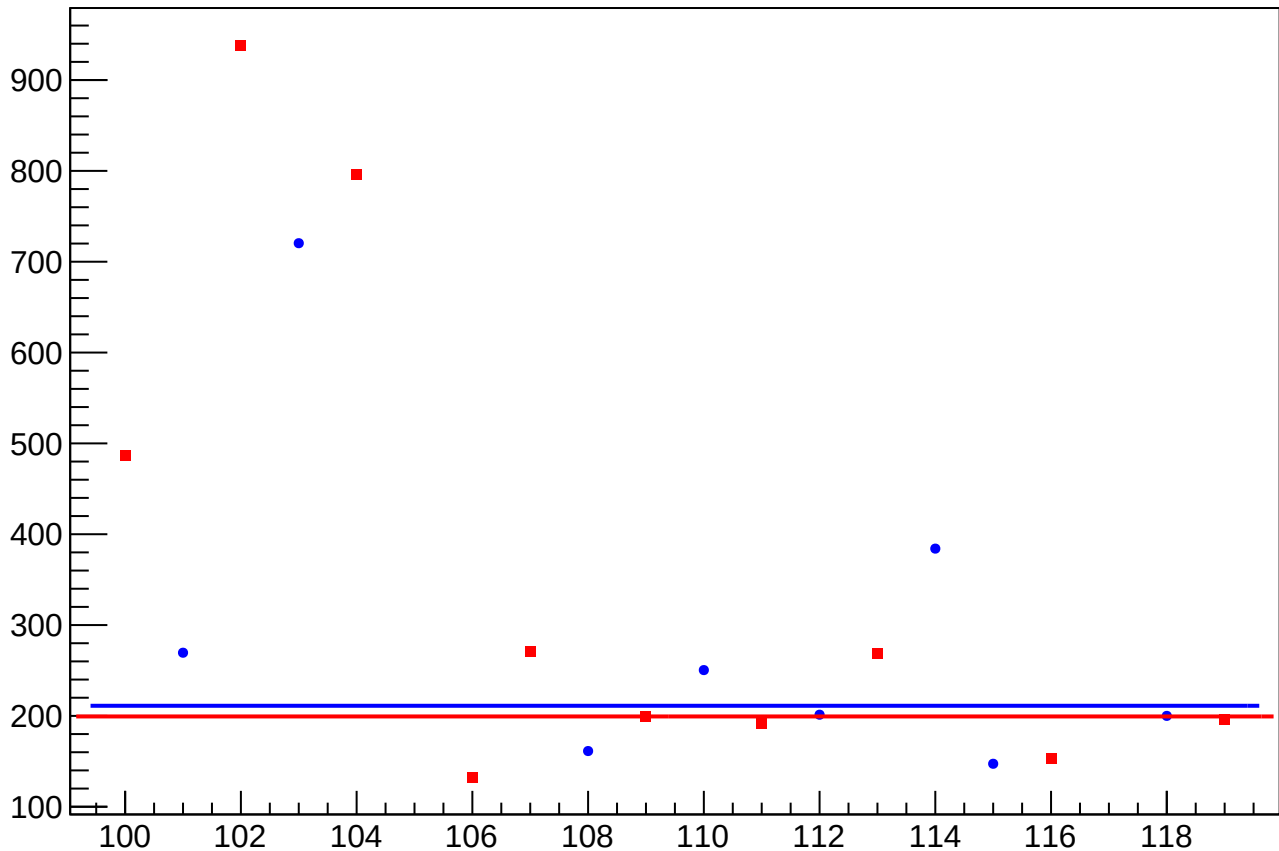
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.088+/-0.087  $\chi^2/\text{NDF}$ : 22.4/17

- sign 0.000+/-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: 211.144+/-0.090  $\chi^2/\text{NDF}$ : 799870.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 199.397+/-0.084  $\chi^2/\text{NDF}$ : 1245868.1/9

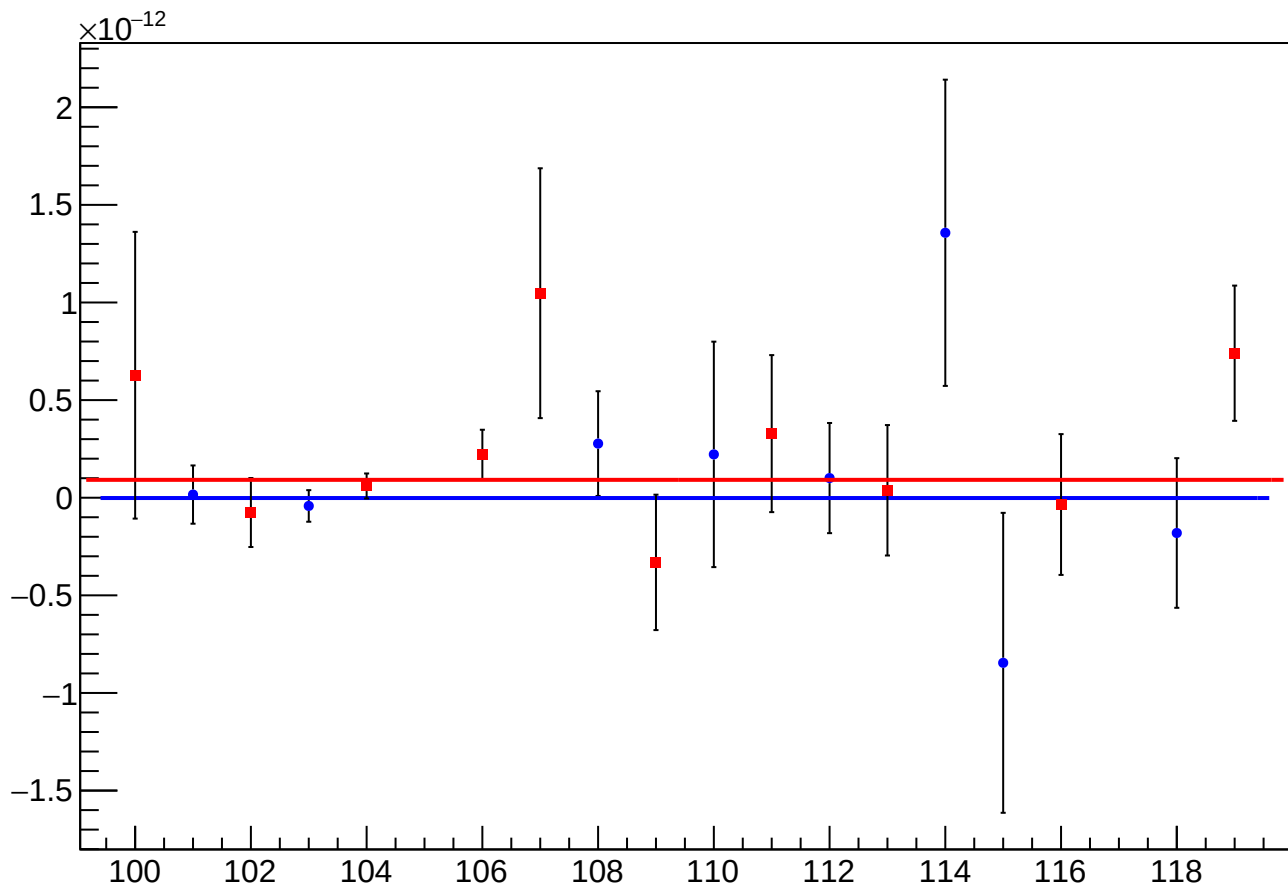
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 204.820+/-0.061  $\chi^2/\text{NDF}$ : 2054836.7/17

- sign 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+/-0.000  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.4/9

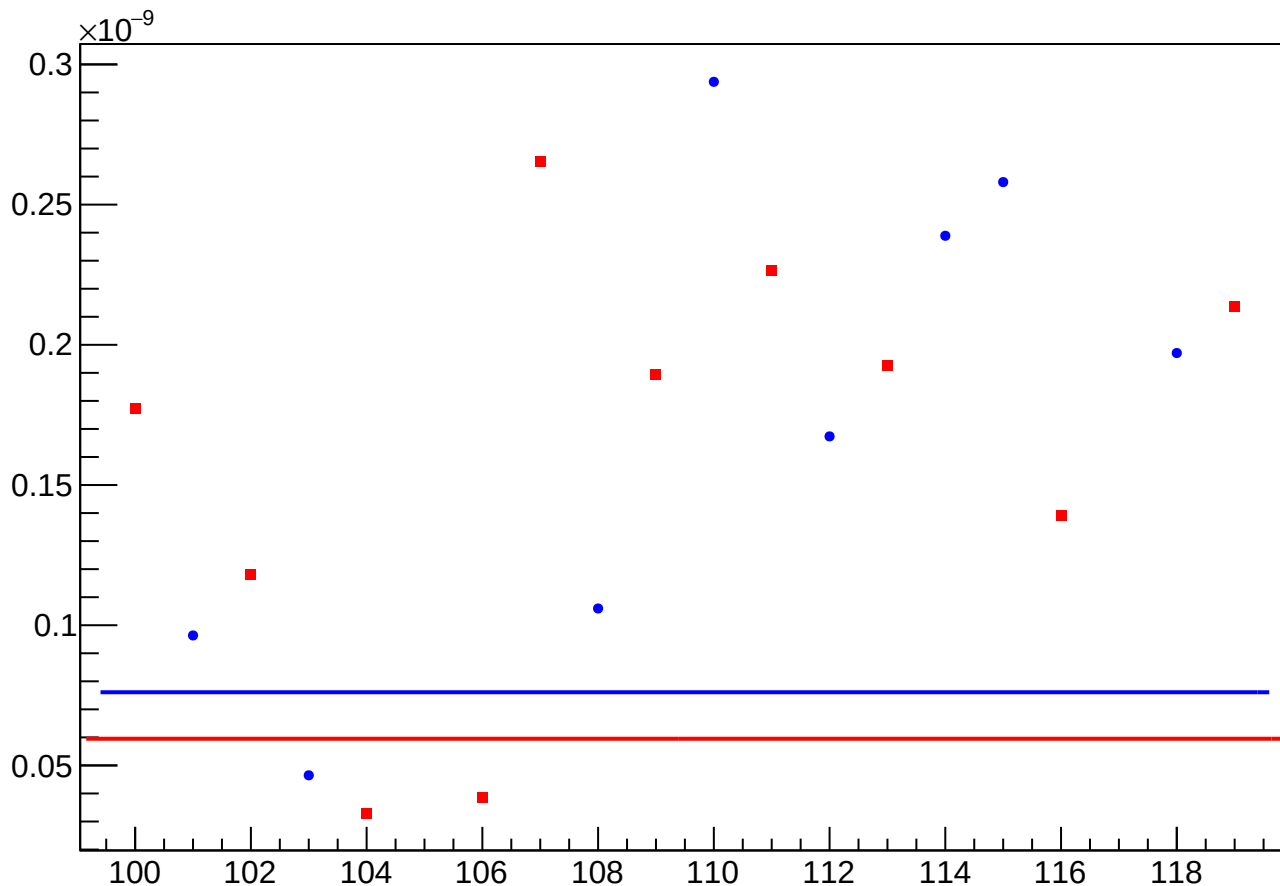
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1220634.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2318991.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

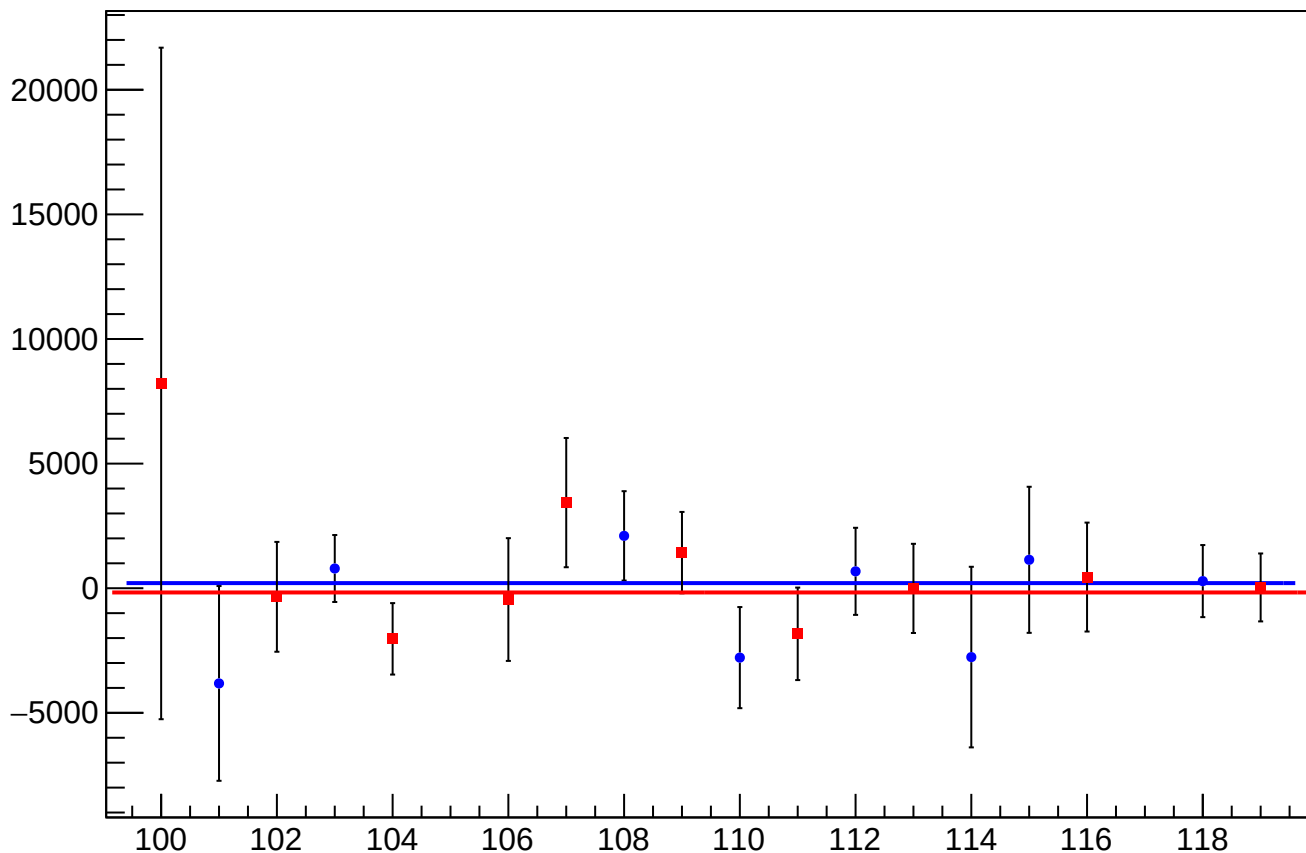
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3619987.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: 205.616+/-678.577  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -169.752+/-604.391  $\chi^2/\text{NDF}$ : 5.9/9

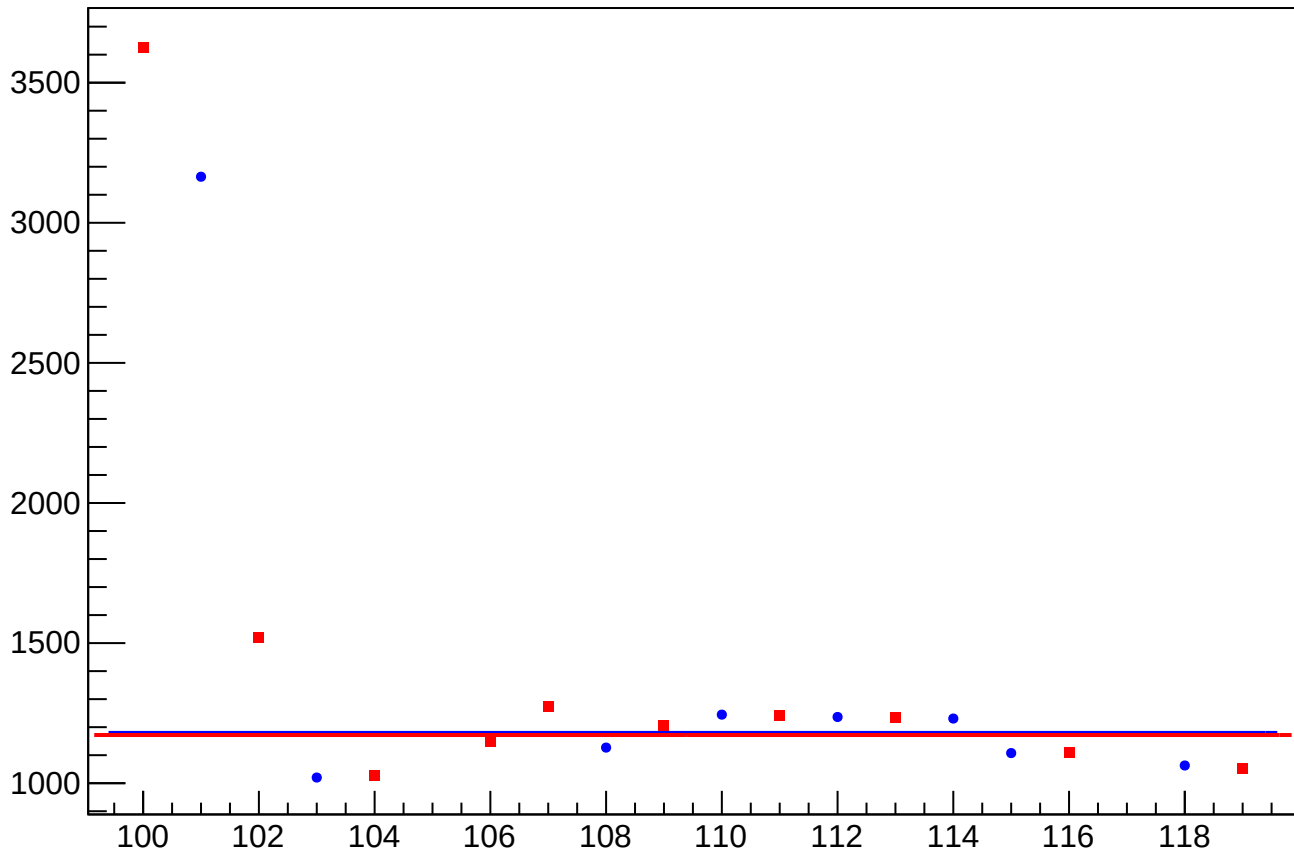
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.701+/-451.327  $\chi^2/\text{NDF}$ : 11.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1179.456+/-0.480  $\chi^2/\text{NDF}$ : 564603.4/7

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

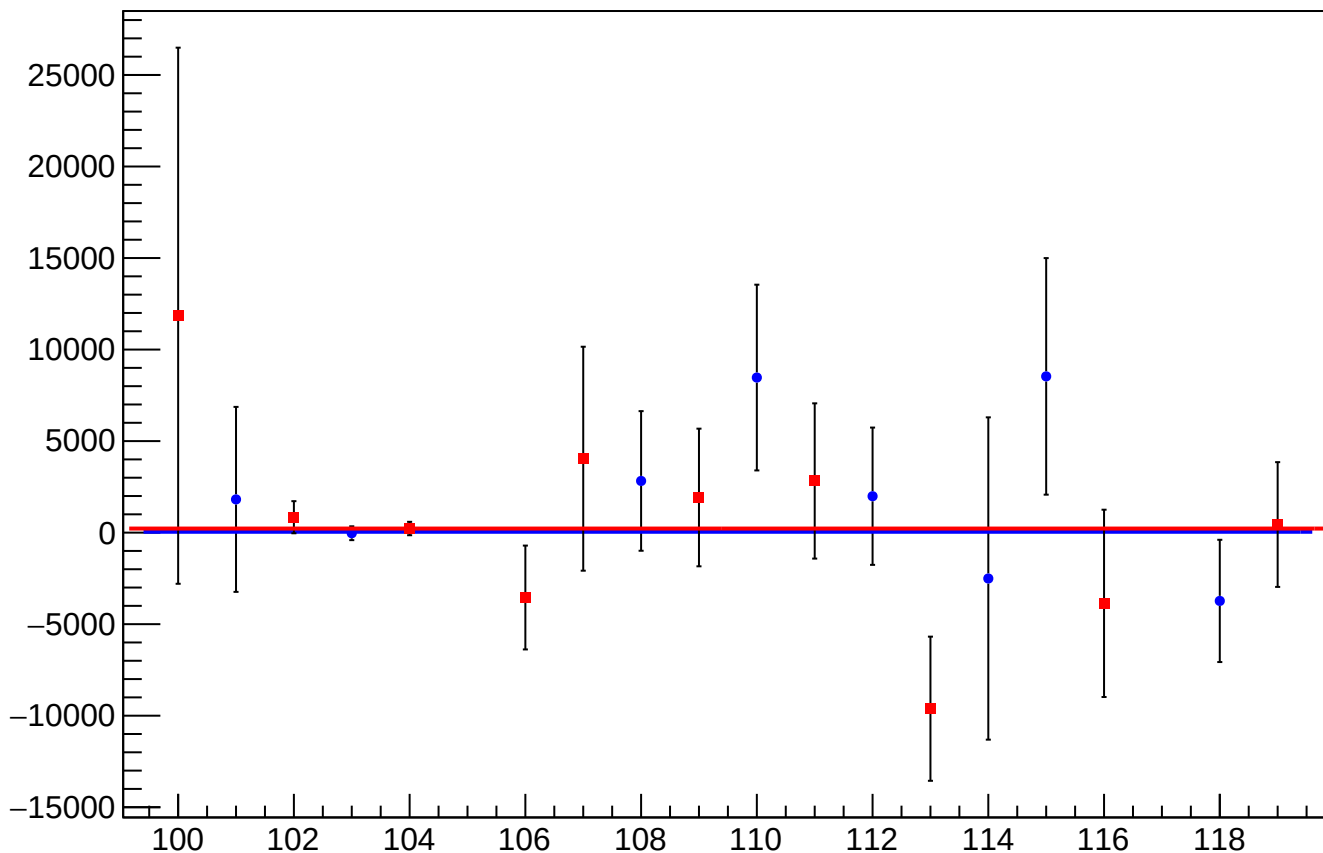
Right Out: 1172.015+/-0.426  $\chi^2/\text{NDF}$ : 163415.2/9

All: 1175.293+/-0.318  $\chi^2/\text{NDF}$ : 728153.1/17

- 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\_dd\_reg\_correction\_mean vs Slug



Right In: 47.049+/-368.666  $\chi^2/\text{NDF}$ : 6.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 222.256+/-329.169  $\chi^2/\text{NDF}$ : 10.8/9

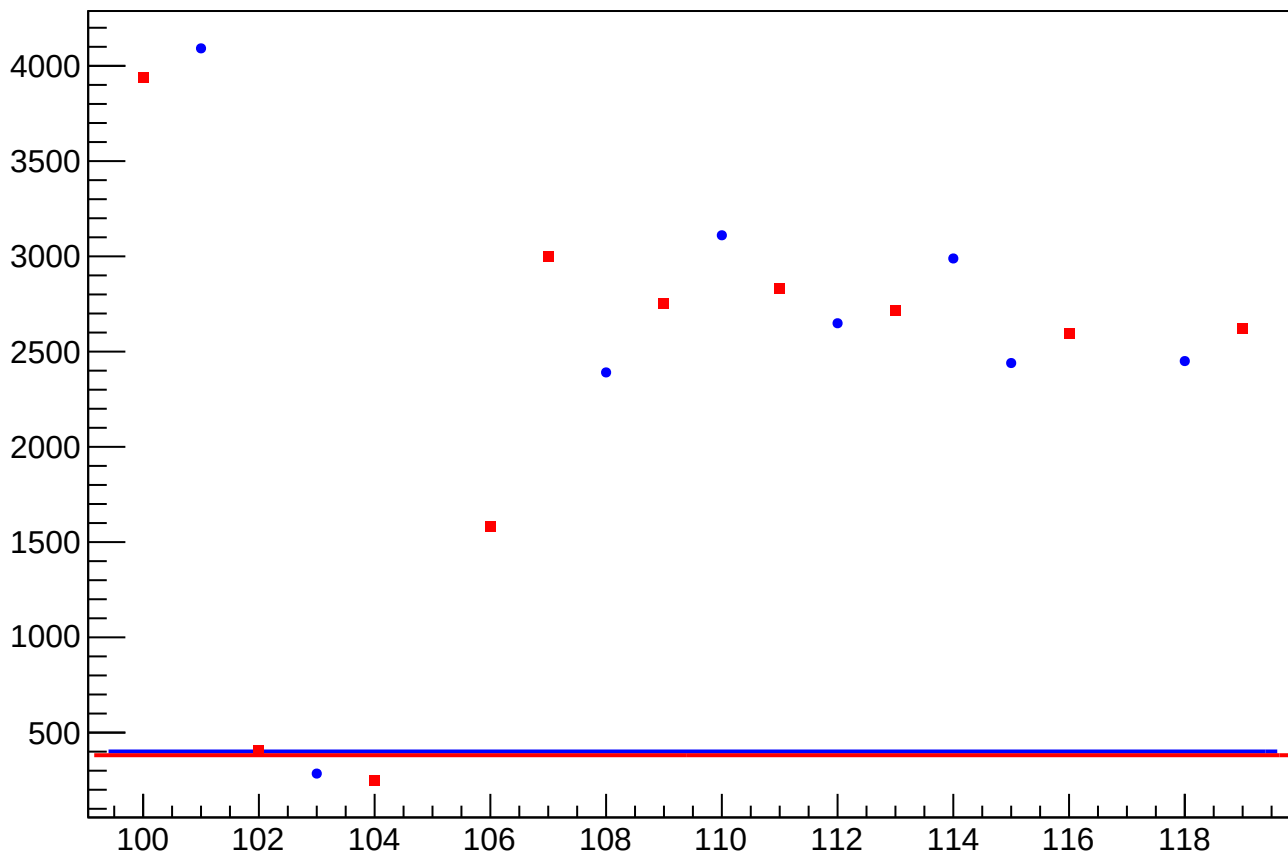
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 144.537+/-245.539  $\chi^2/\text{NDF}$ : 17.7/17

- 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: 400.776 $\pm$ 0.261  $\chi^2$ /NDF: 4215481.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 381.228 $\pm$ 0.233  $\chi^2$ /NDF: 4514014.8/9

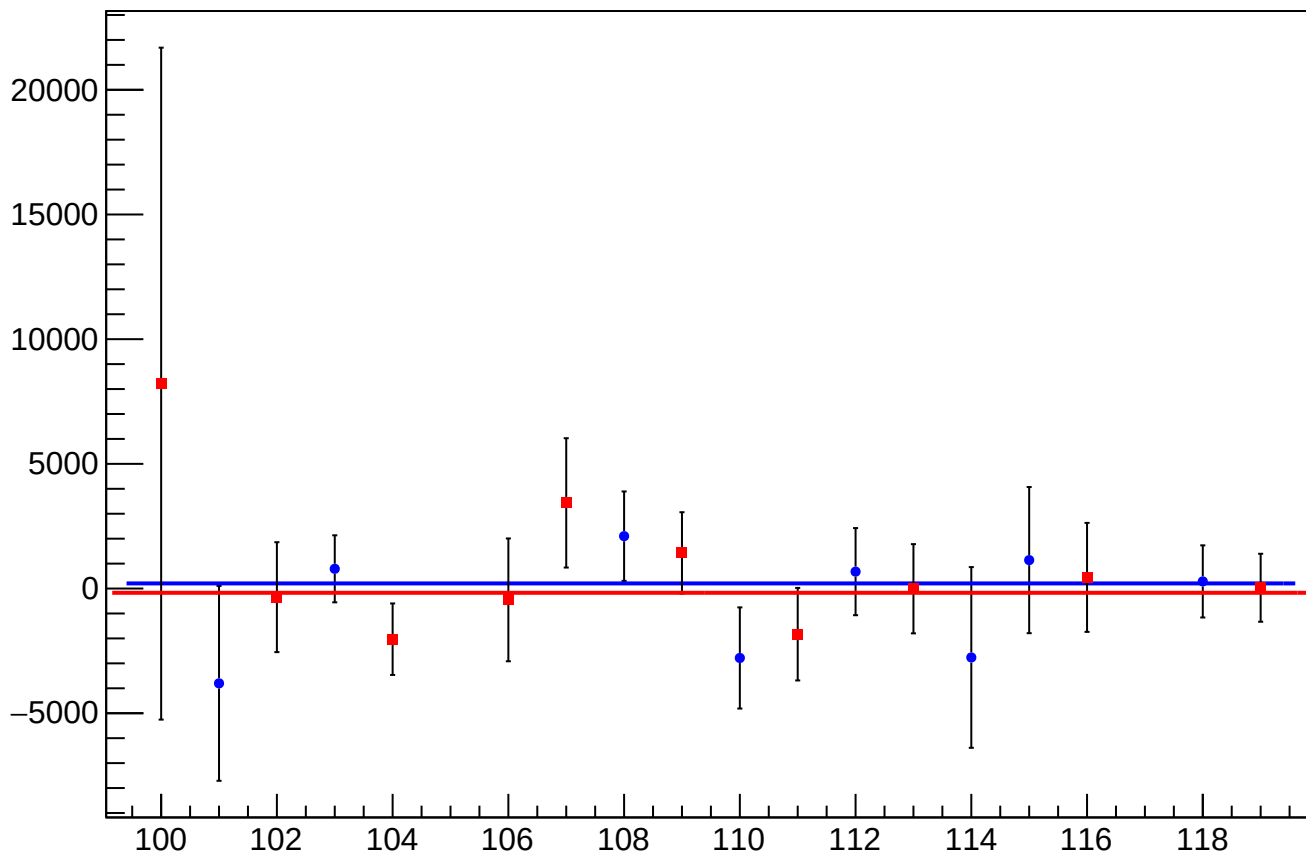
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 389.899 $\pm$ 0.174  $\chi^2$ /NDF: 8732625.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: 206.050 $\pm$ 678.578  $\chi^2$ /NDF: 5.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -170.076 $\pm$ 604.391  $\chi^2$ /NDF: 5.9/9

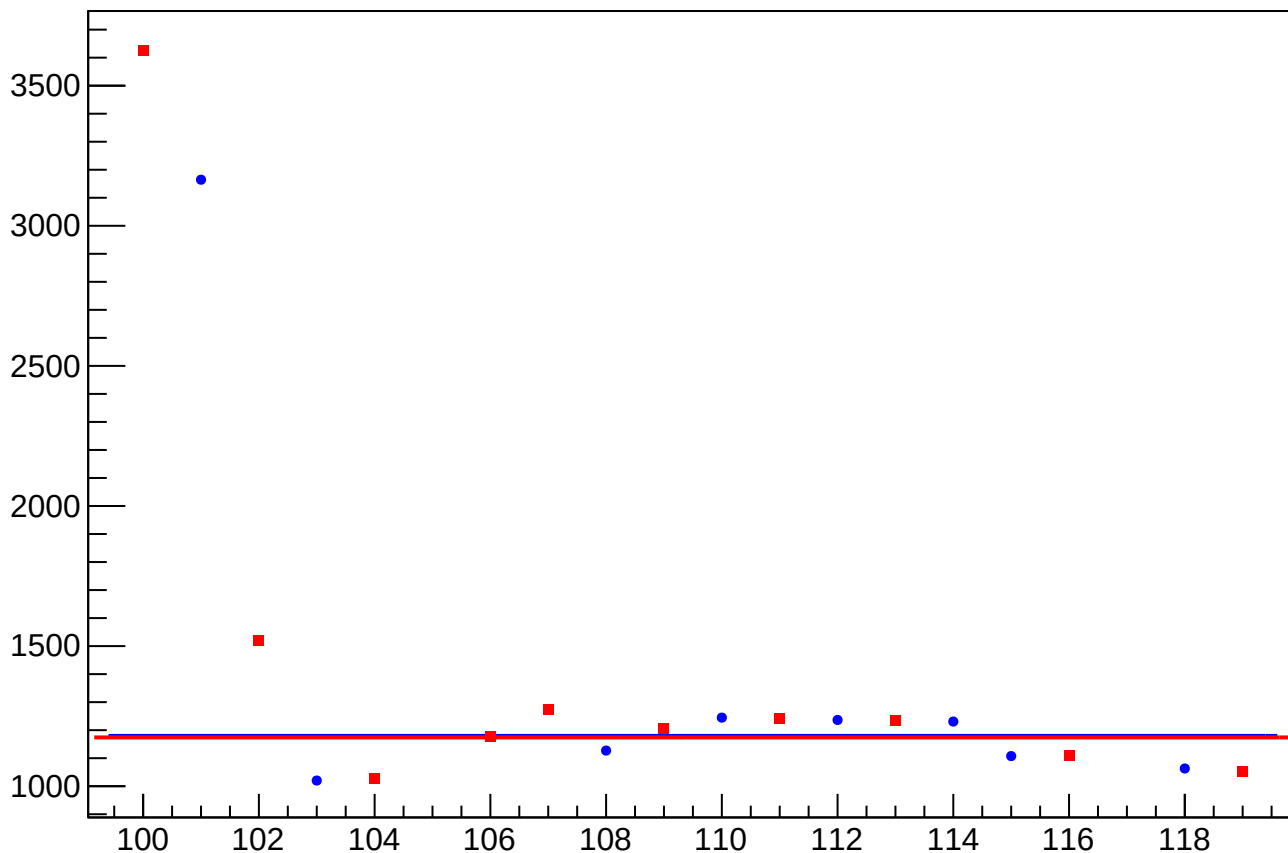
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.690 $\pm$ 451.327  $\chi^2$ /NDF: 11.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1179.455+/-0.480  $\chi^2/\text{NDF}$ : 564604.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1174.074+/-0.427  $\chi^2/\text{NDF}$ : 163183.2/9

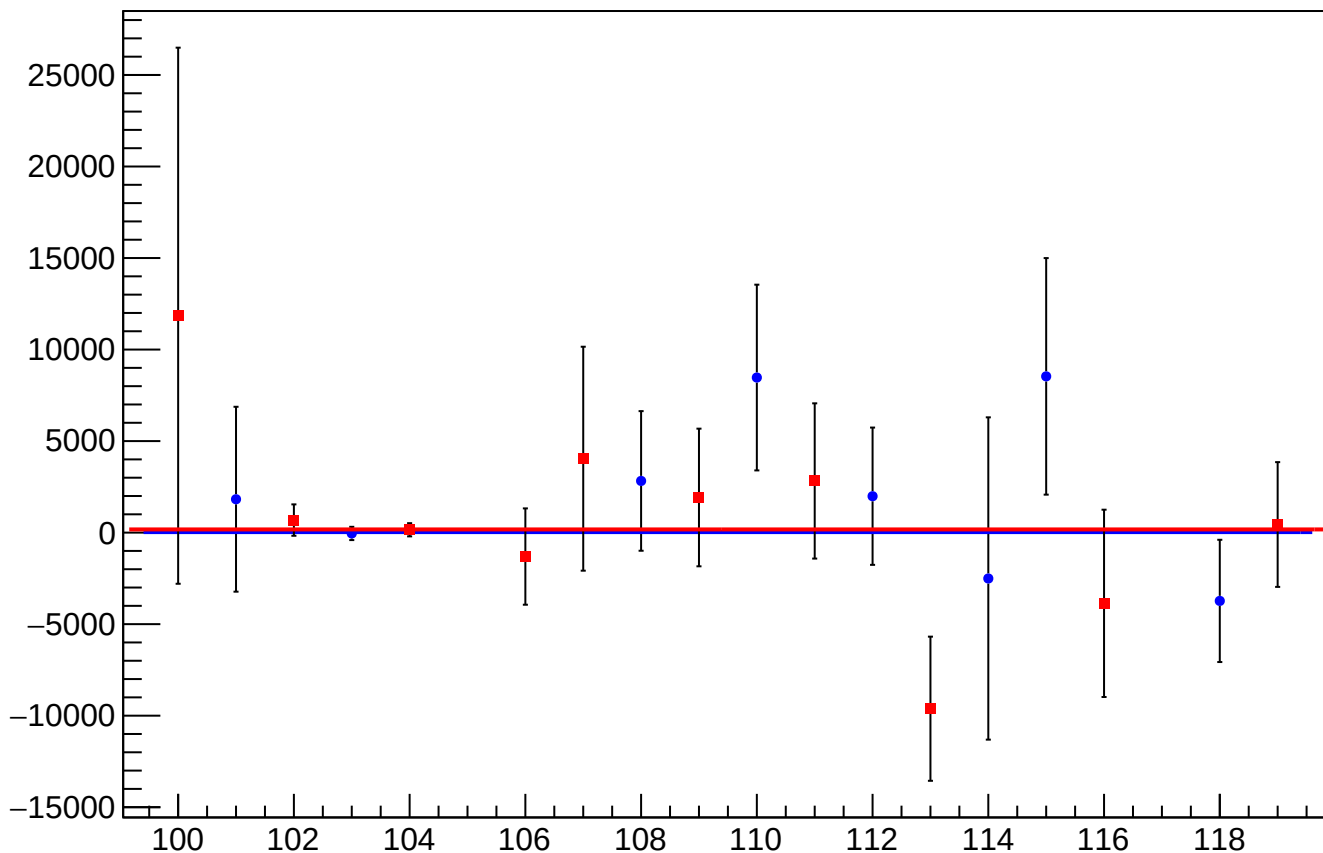
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1176.452+/-0.319  $\chi^2/\text{NDF}$ : 727858.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_cor\_correction\_mean vs Slug



Right In: 28.759+/-354.339  $\chi^2/\text{NDF}$ : 6.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 174.338+/-323.671  $\chi^2/\text{NDF}$ : 9.1/9

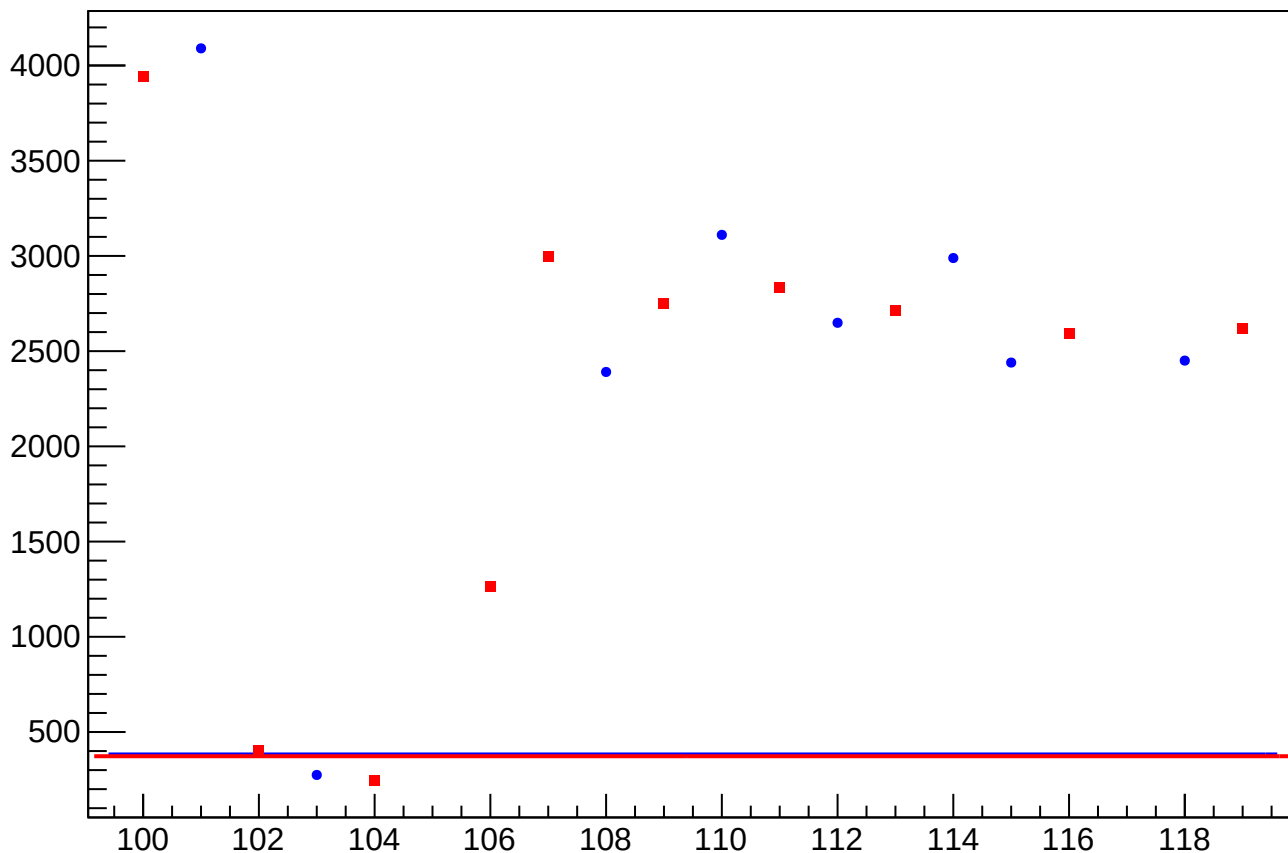
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 108.120+/-238.978  $\chi^2/\text{NDF}$ : 16.1/17

- 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: 382.059+/-0.251  $\chi^2/\text{NDF}$ : 4264222.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 372.833+/-0.229  $\chi^2/\text{NDF}$ : 4400897.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

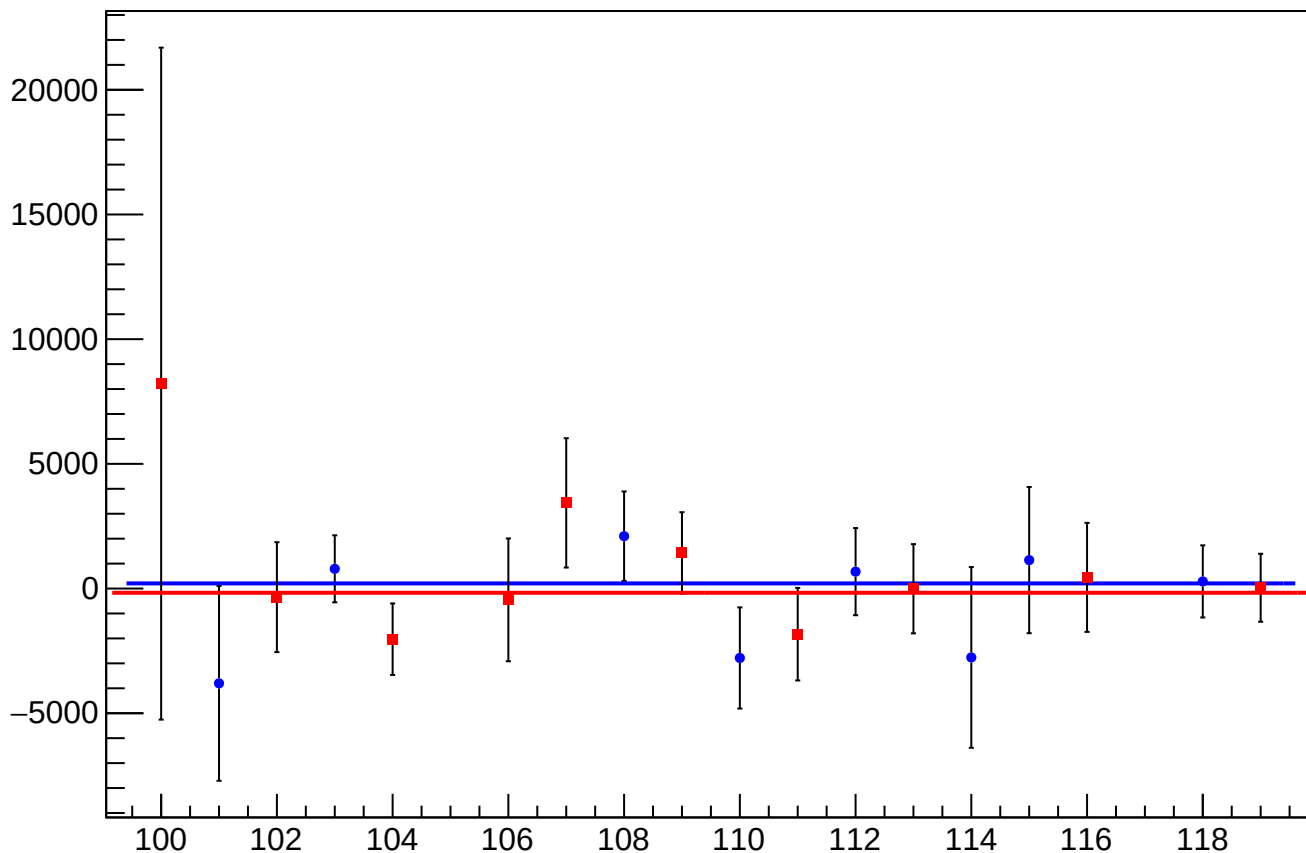
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 377.029+/-0.169  $\chi^2/\text{NDF}$ : 8665859.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: 206.050+/-678.578  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -170.076+/-604.391  $\chi^2/\text{NDF}$ : 5.9/9

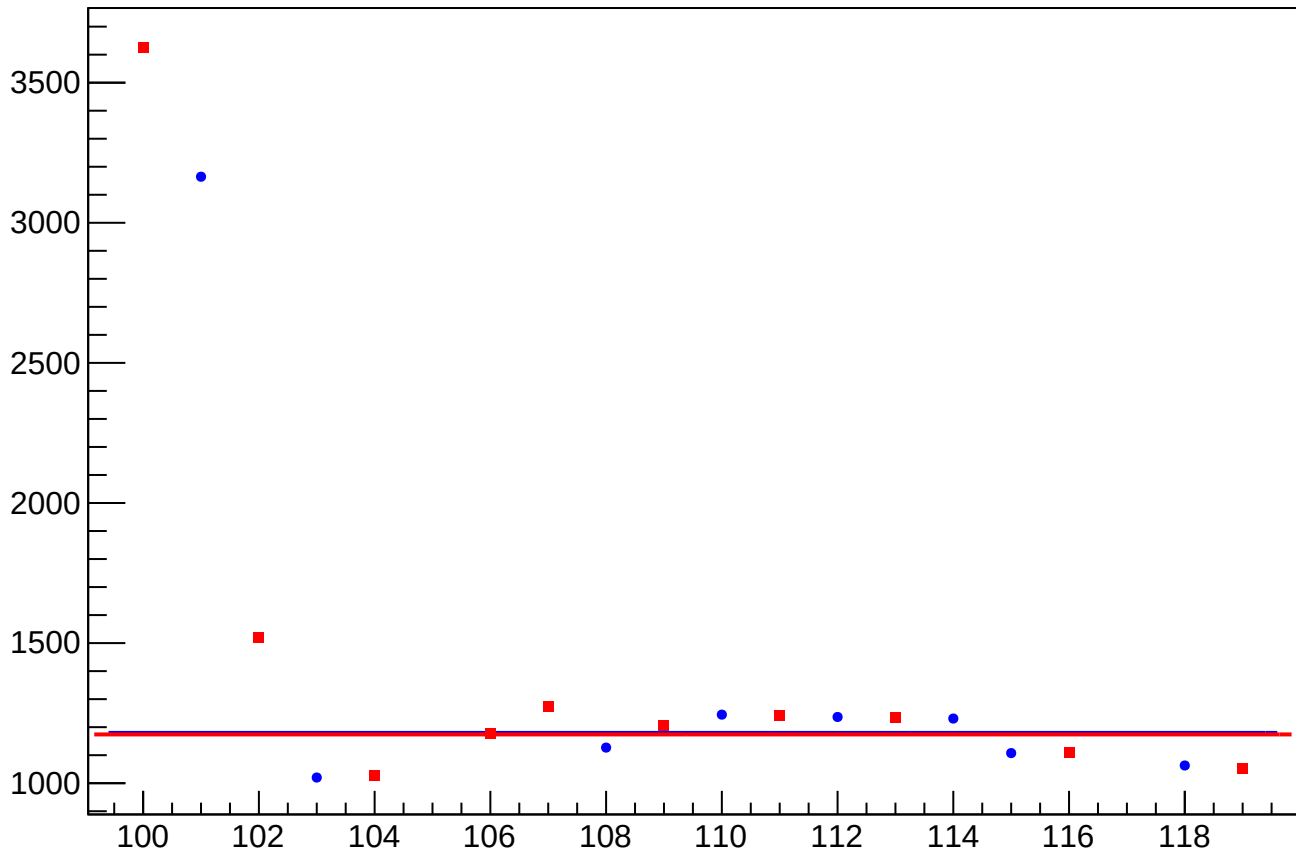
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.690+/-451.327  $\chi^2/\text{NDF}$ : 11.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1179.455+/-0.480  $\chi^2/\text{NDF}$ : 564604.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1174.074+/-0.427  $\chi^2/\text{NDF}$ : 163183.2/9

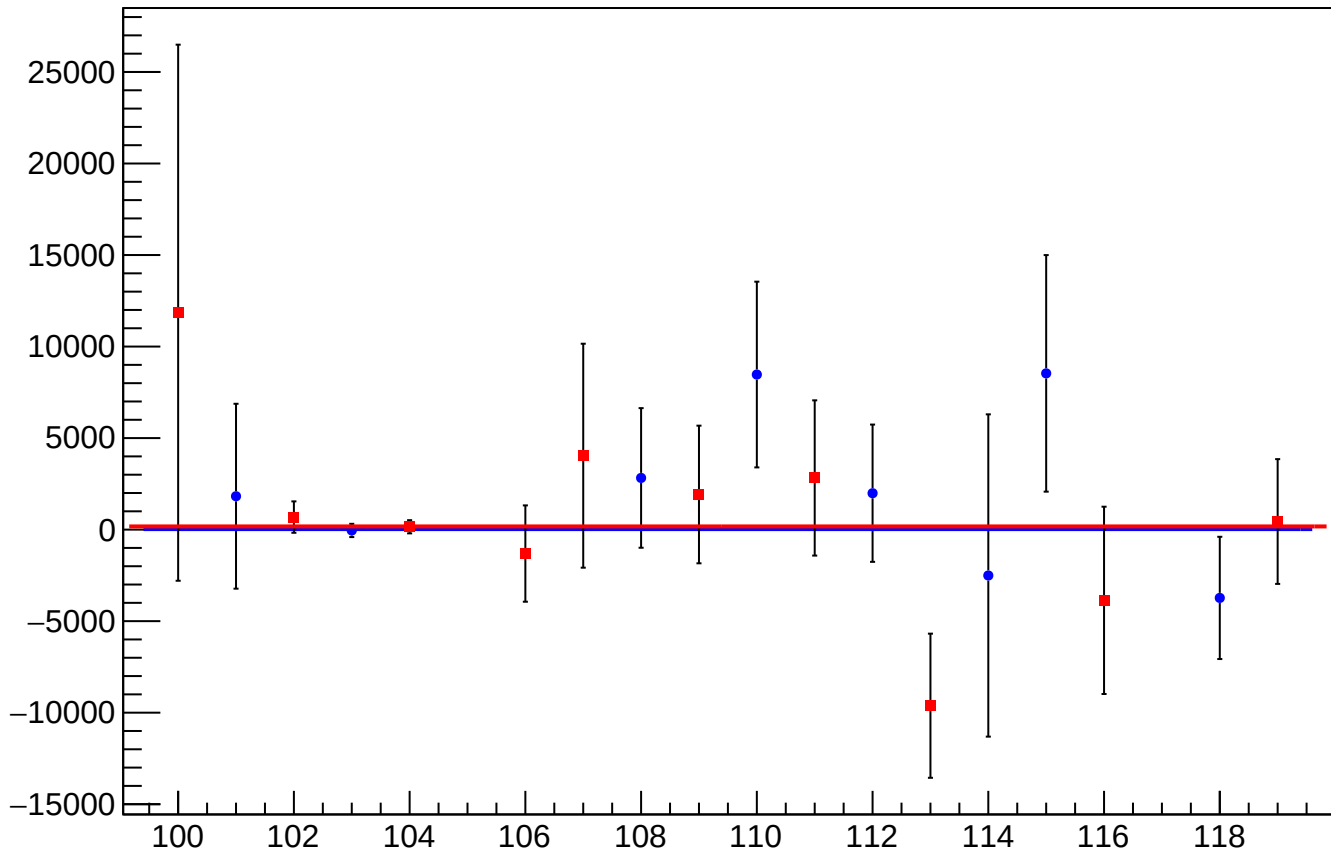
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1176.452+/-0.319  $\chi^2/\text{NDF}$ : 727858.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 28.759+/-354.339  $\chi^2/\text{NDF}$ : 6.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 174.338+/-323.671  $\chi^2/\text{NDF}$ : 9.1/9

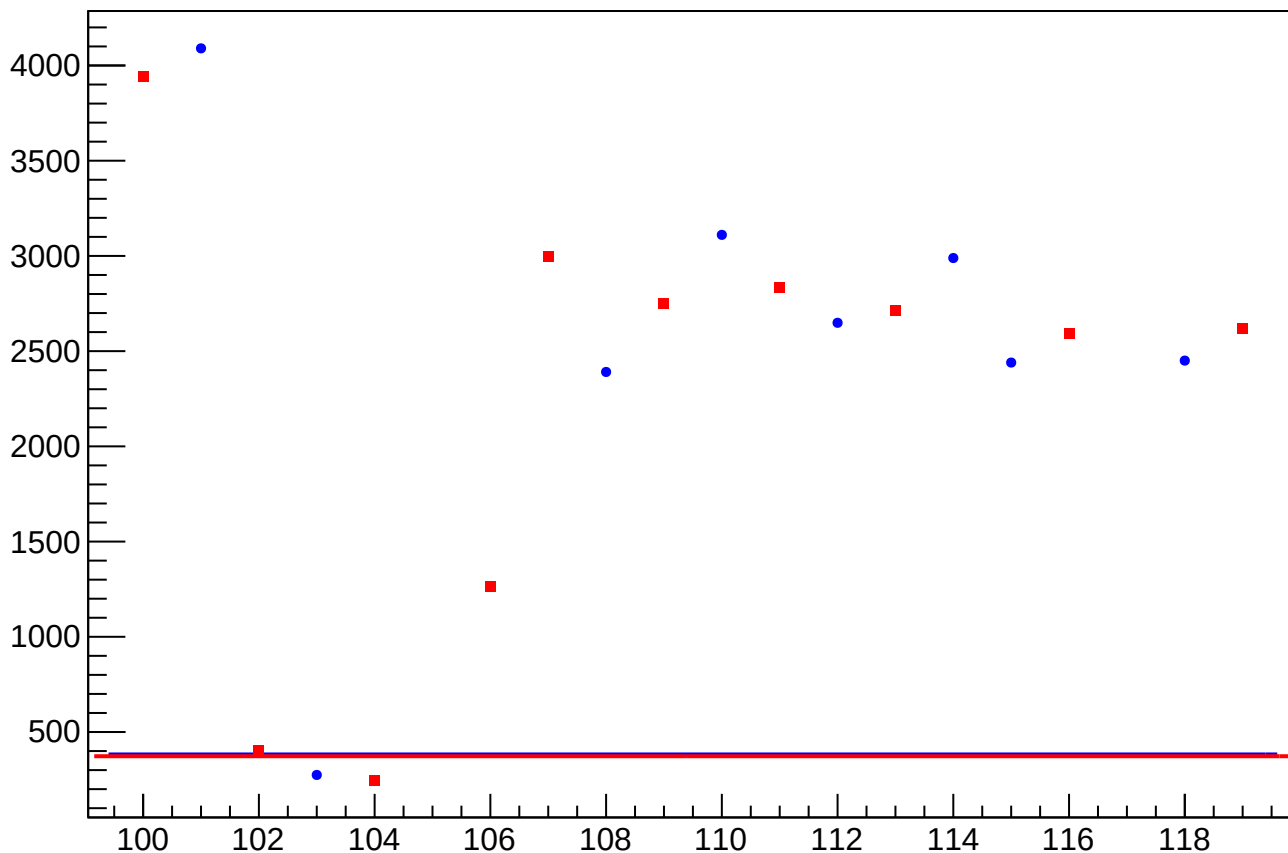
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 108.120+/-238.978  $\chi^2/\text{NDF}$ : 16.1/17

- 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: 382.059+/-0.251  $\chi^2/\text{NDF}$ : 4264222.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 372.833+/-0.229  $\chi^2/\text{NDF}$ : 4400897.5/9

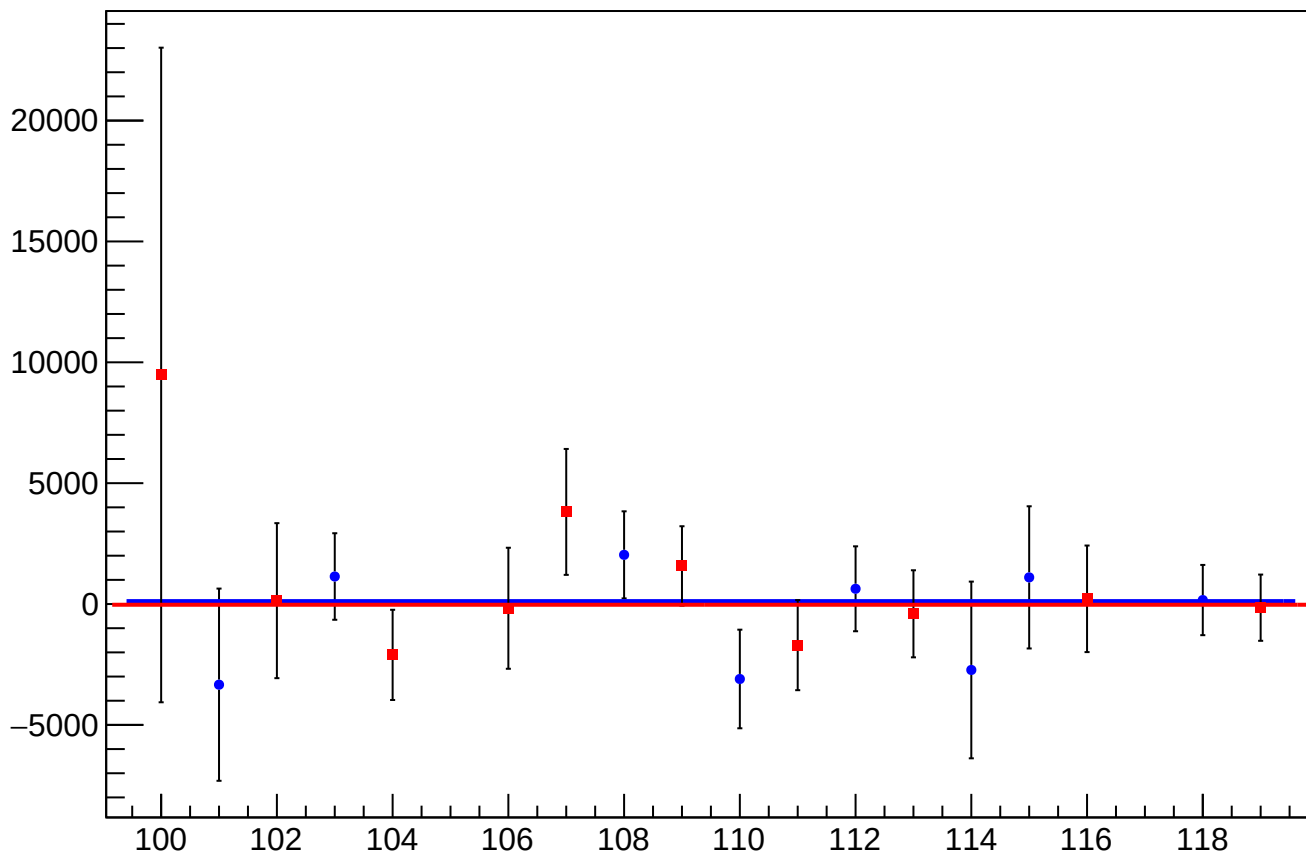
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 377.029+/-0.169  $\chi^2/\text{NDF}$ : 8665859.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: 121.450+/-723.172  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -29.530+/-645.174  $\chi^2/\text{NDF}$ : 5.7/9

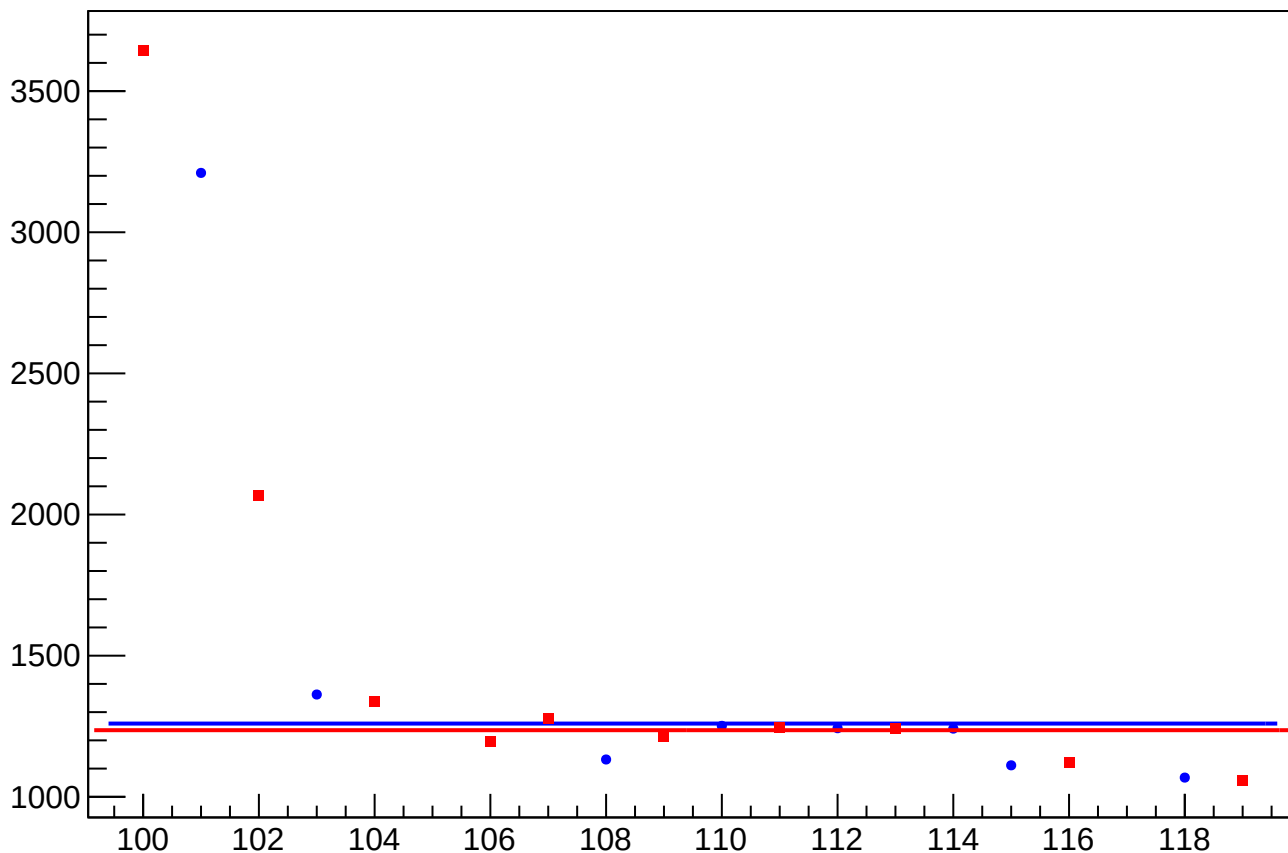
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.381+/-481.430  $\chi^2/\text{NDF}$ : 11.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1259.483 $\pm$ 0.511  $\chi^2$ /NDF: 538118.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1236.030 $\pm$ 0.456  $\chi^2$ /NDF: 244207.5/9

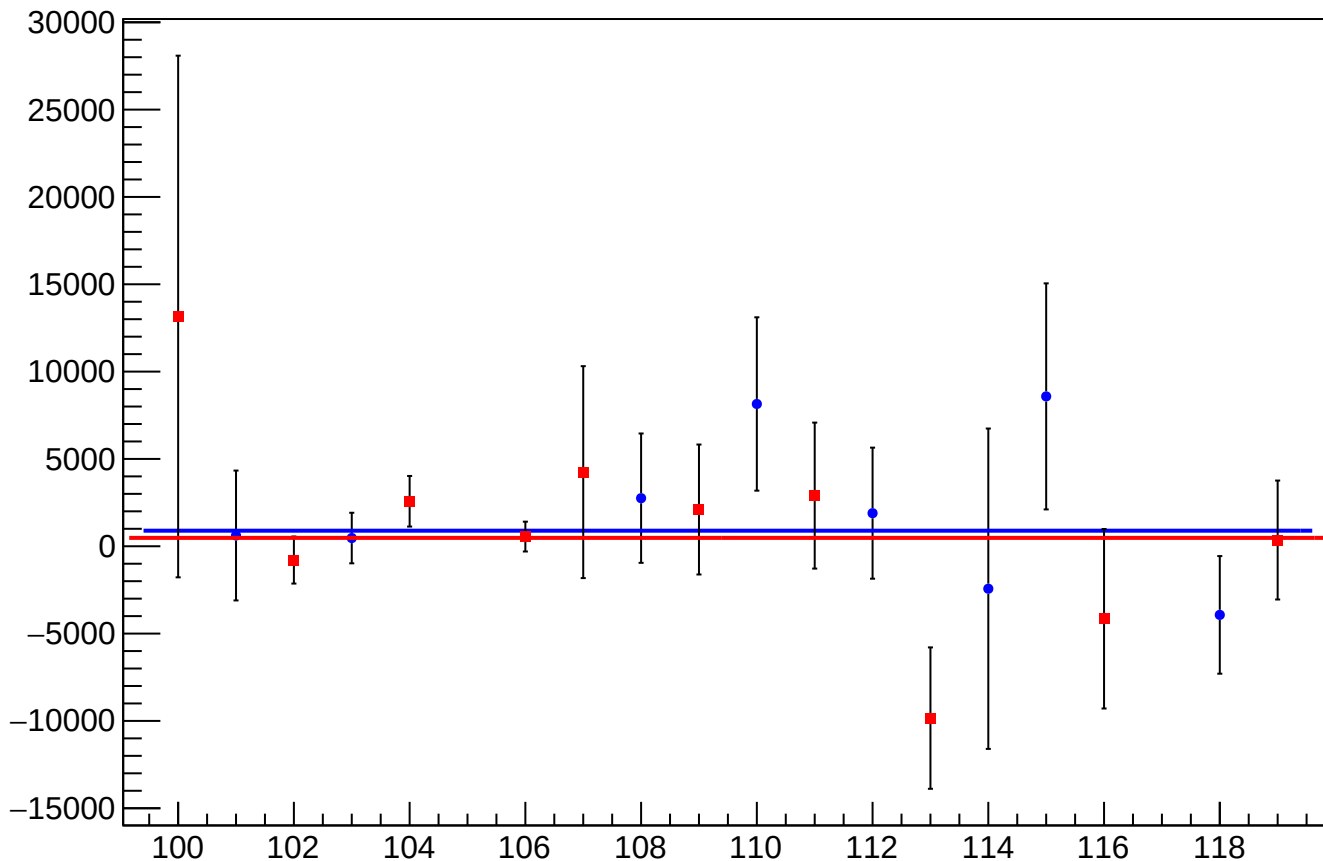
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1246.412 $\pm$ 0.340  $\chi^2$ /NDF: 783498.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_dit\_correction\_mean vs Slug



Right In: 891.043+/-1079.516  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 479.807+/-603.545  $\chi^2/\text{NDF}$ : 11.9/9

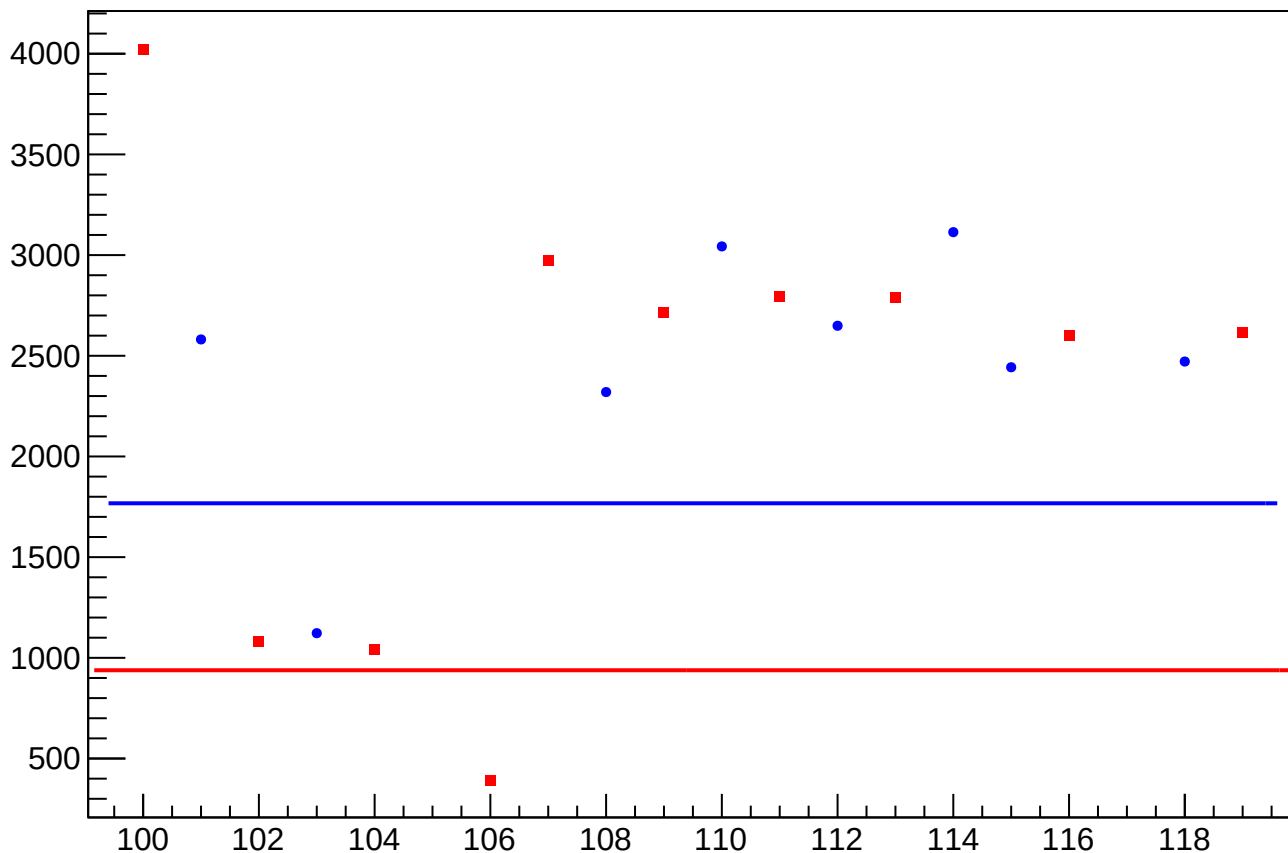
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 577.739+/-526.801  $\chi^2/\text{NDF}$ : 18.2/17

- 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: 1767.457+/-0.763  $\chi^2/\text{NDF}$ : 932259.9/7

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: 938.308+/-0.427  $\chi^2/\text{NDF}$ : 3130354.7/9

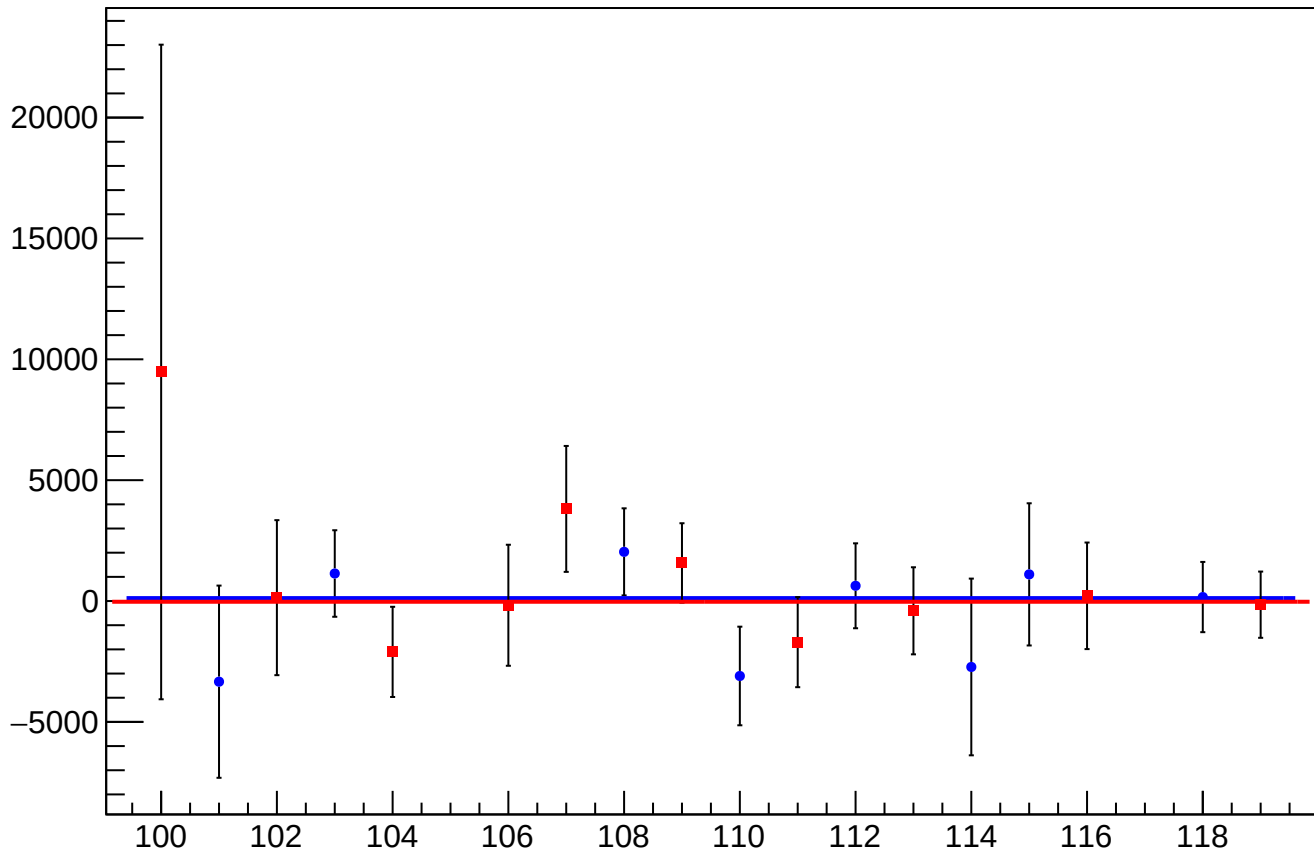
All: 1135.762+/-0.373  $\chi^2/\text{NDF}$ : 4961513.8/17

- 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: 121.448+/-723.172  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -29.525+/-645.174  $\chi^2/\text{NDF}$ : 5.7/9

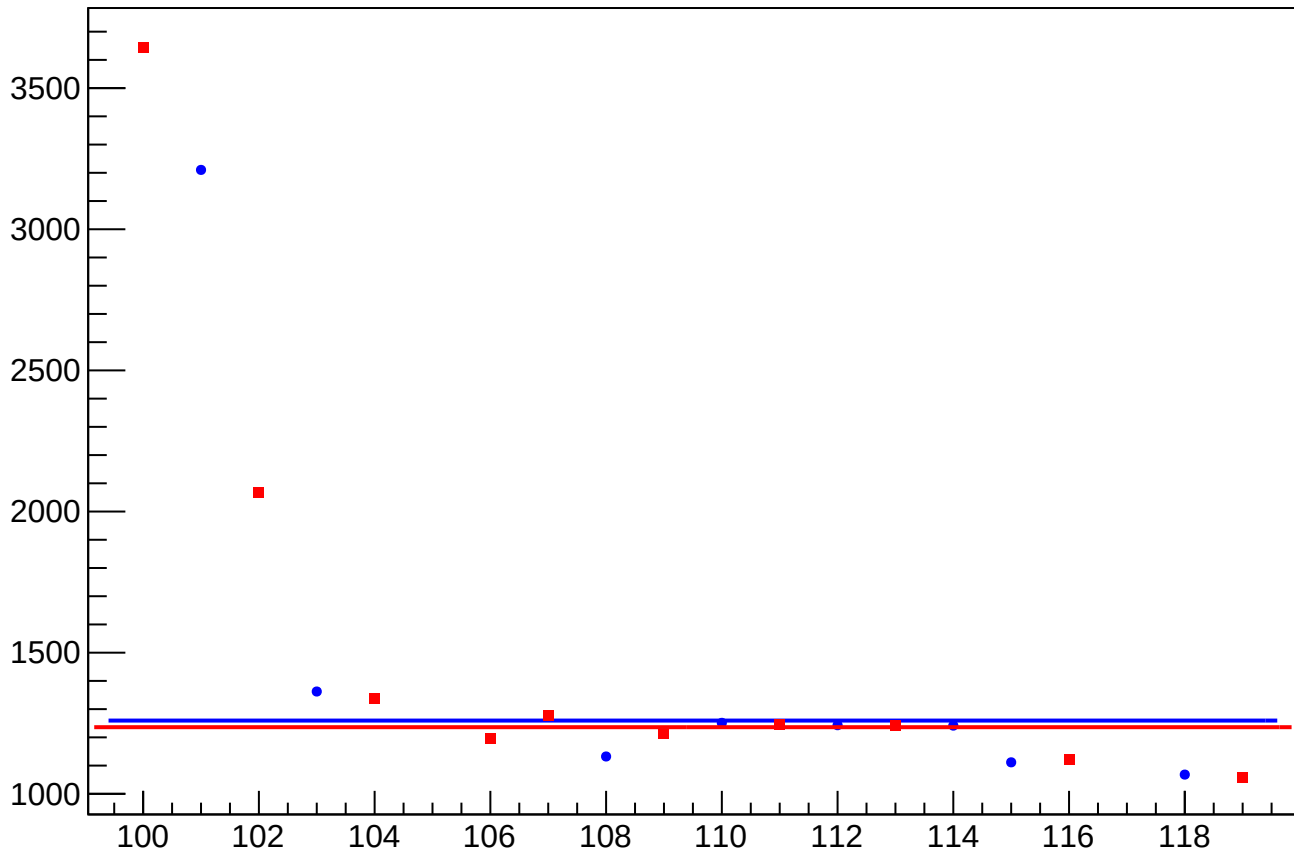
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.384+/-481.430  $\chi^2/\text{NDF}$ : 11.3/17

- 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: 1259.483+/-0.511  $\chi^2/\text{NDF}$ : 538118.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1236.030+/-0.456  $\chi^2/\text{NDF}$ : 244207.3/9

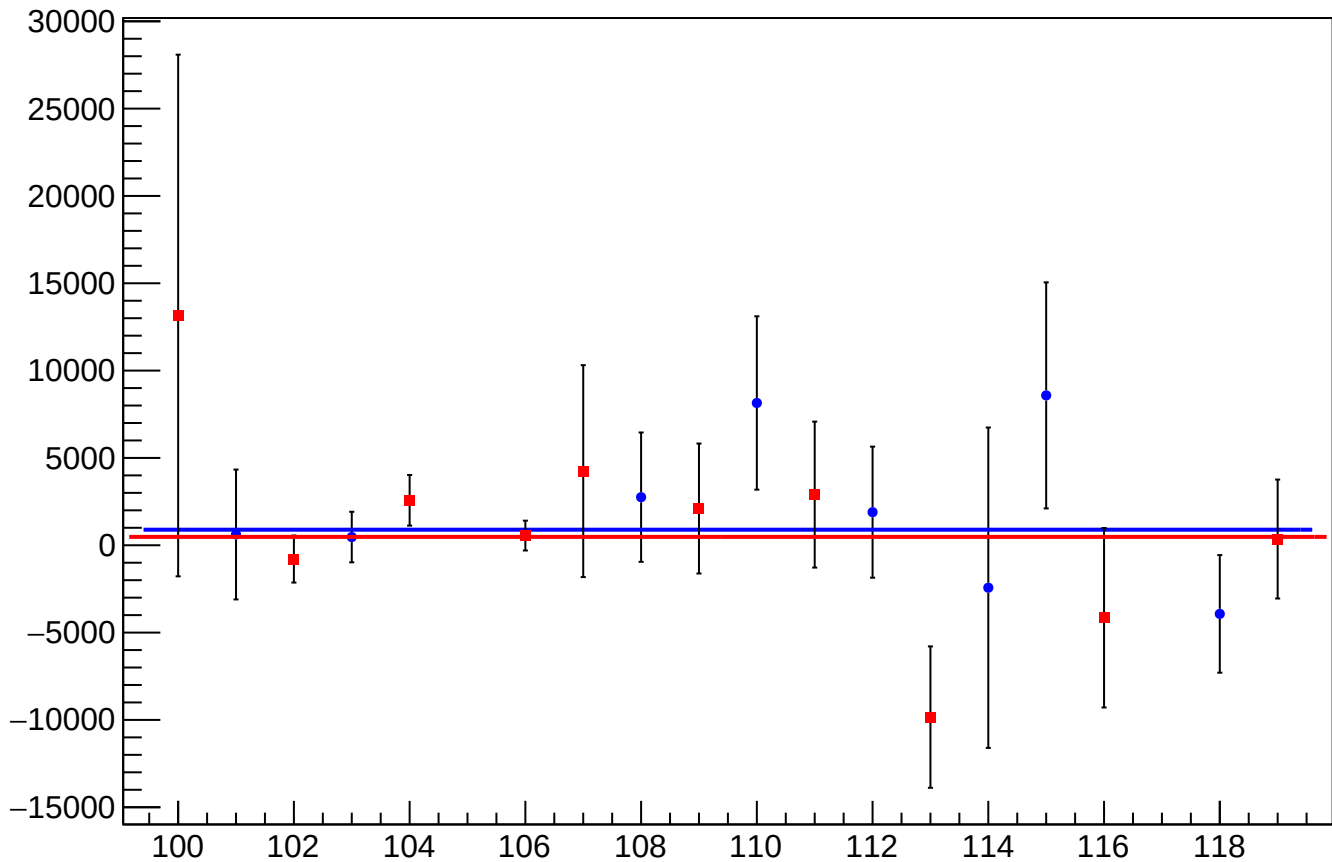
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1246.412+/-0.340  $\chi^2/\text{NDF}$ : 783498.3/17

- 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: 891.041 $\pm$ 1079.515  $\chi^2$ /NDF: 6.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 479.806 $\pm$ 603.537  $\chi^2$ /NDF: 11.9/9

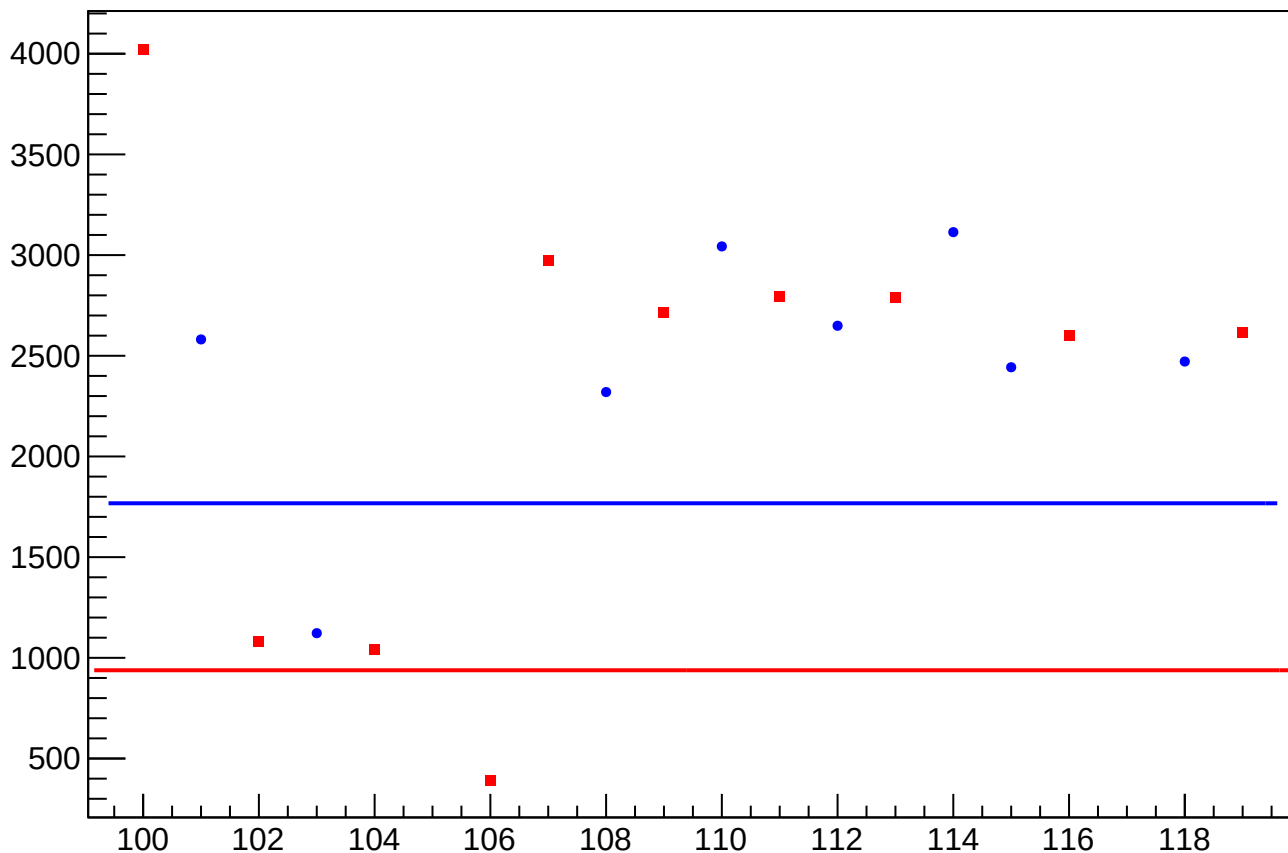
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 577.737 $\pm$ 526.796  $\chi^2$ /NDF: 18.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1767.455+/-0.763  $\chi^2/\text{NDF}$ : 932256.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 938.288+/-0.427  $\chi^2/\text{NDF}$ : 3130428.3/9

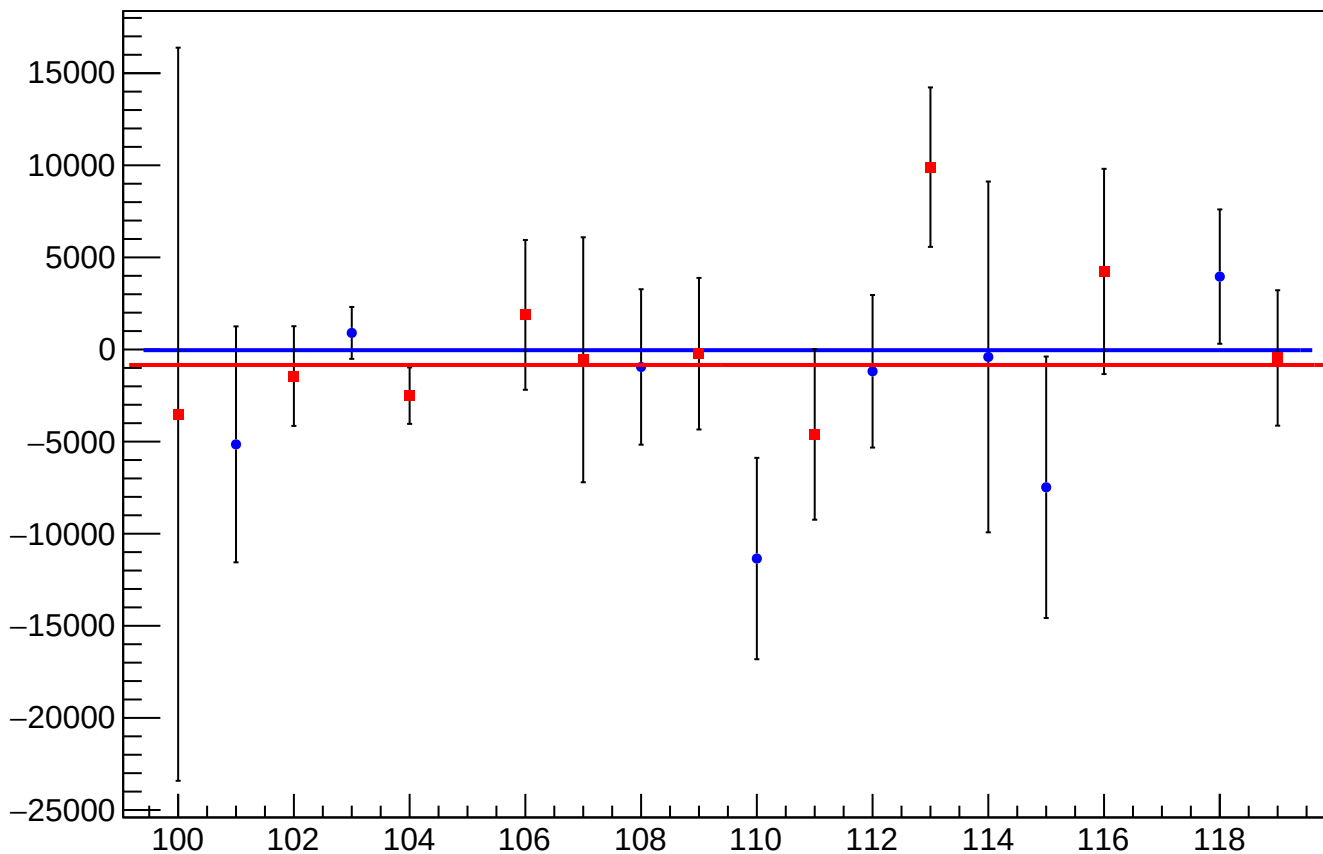
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1135.743+/-0.373  $\chi^2/\text{NDF}$ : 4961631.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: -36.998+/-1130.566  $\chi^2/\text{NDF}$ : 7.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -840.349+/-1046.688  $\chi^2/\text{NDF}$ : 9.4/9

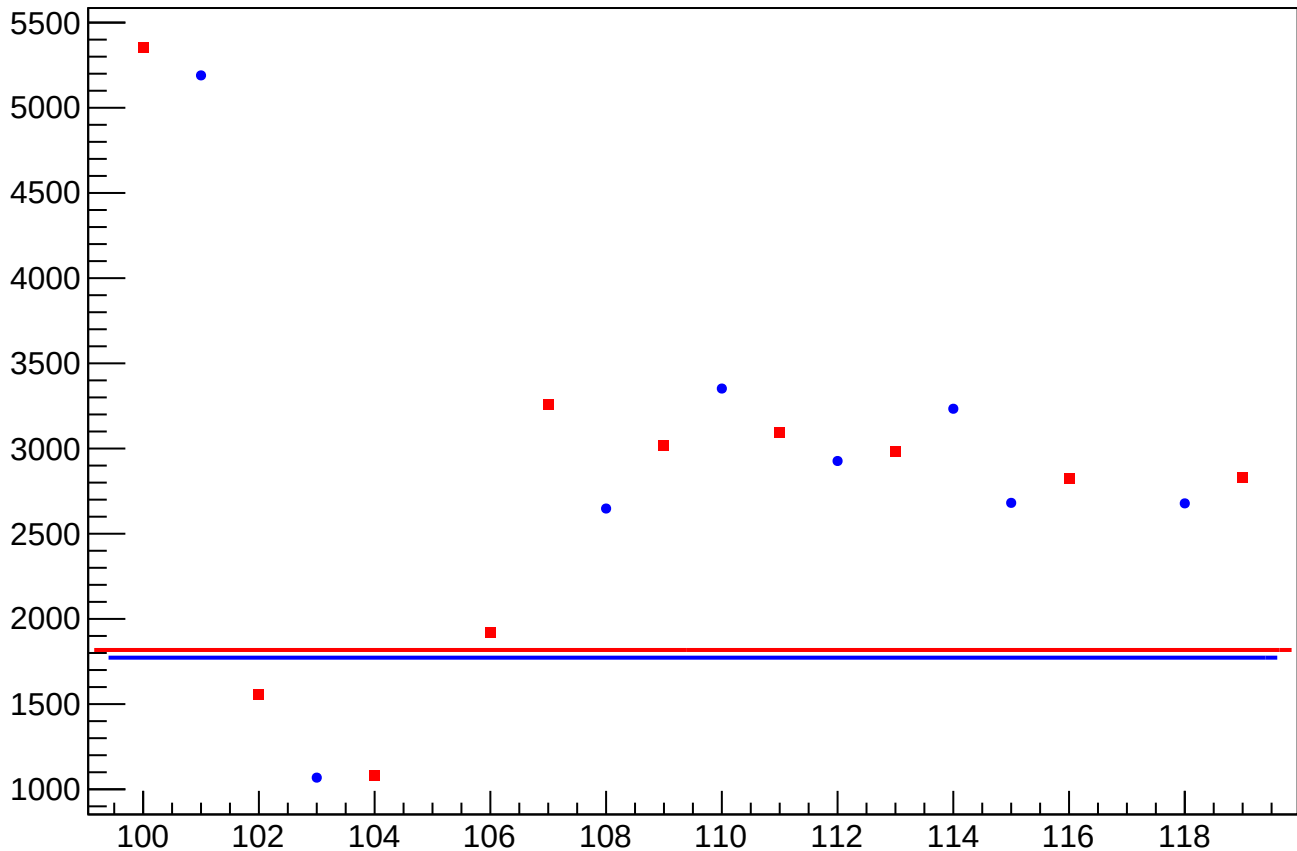
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -469.576+/-768.064  $\chi^2/\text{NDF}$ : 17.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1772.577+/-0.799  $\chi^2/\text{NDF}$ : 1680760.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1817.672+/-0.738  $\chi^2/\text{NDF}$ : 1321230.8/9

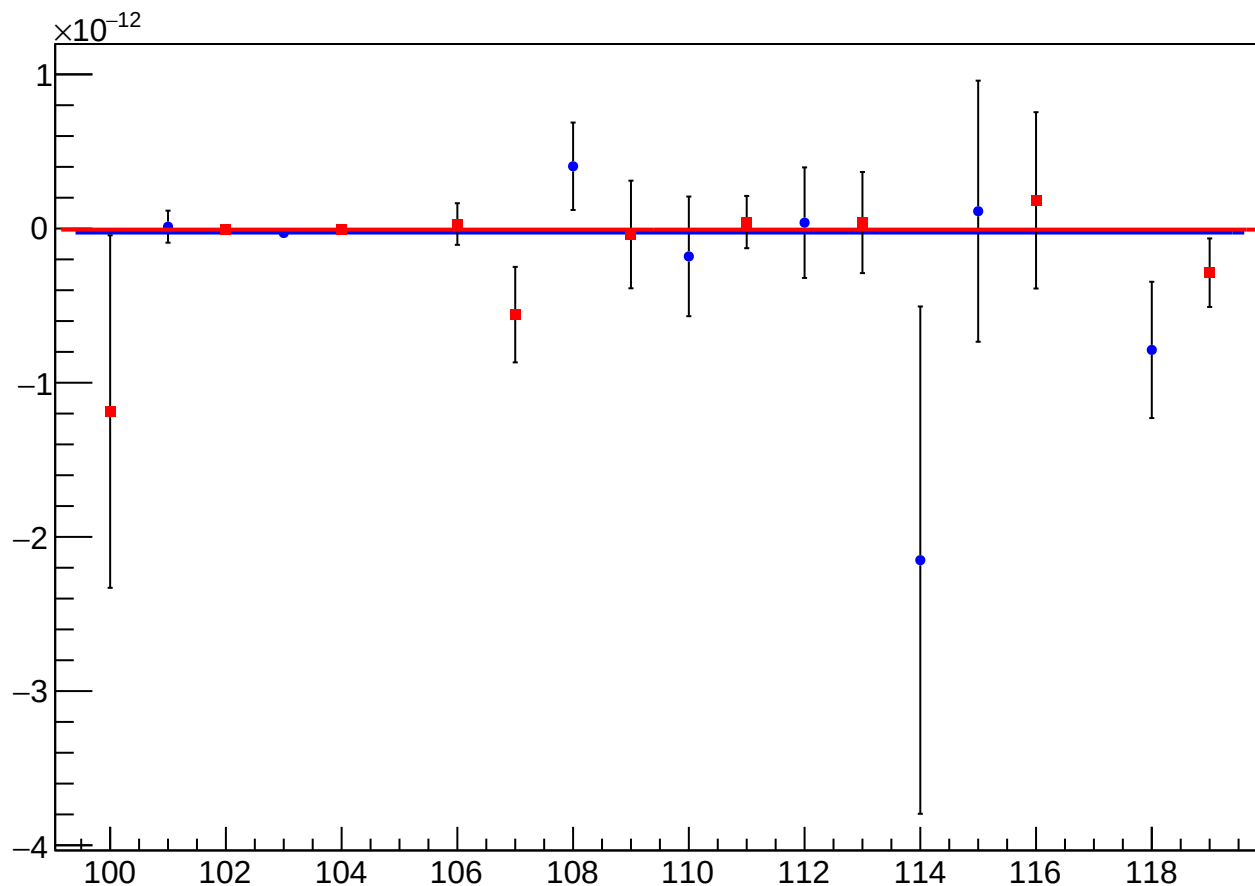
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1796.932+/-0.542  $\chi^2/\text{NDF}$ : 3003710.1/17

- 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  $\chi^2/\text{NDF}$ : 7.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.1/9

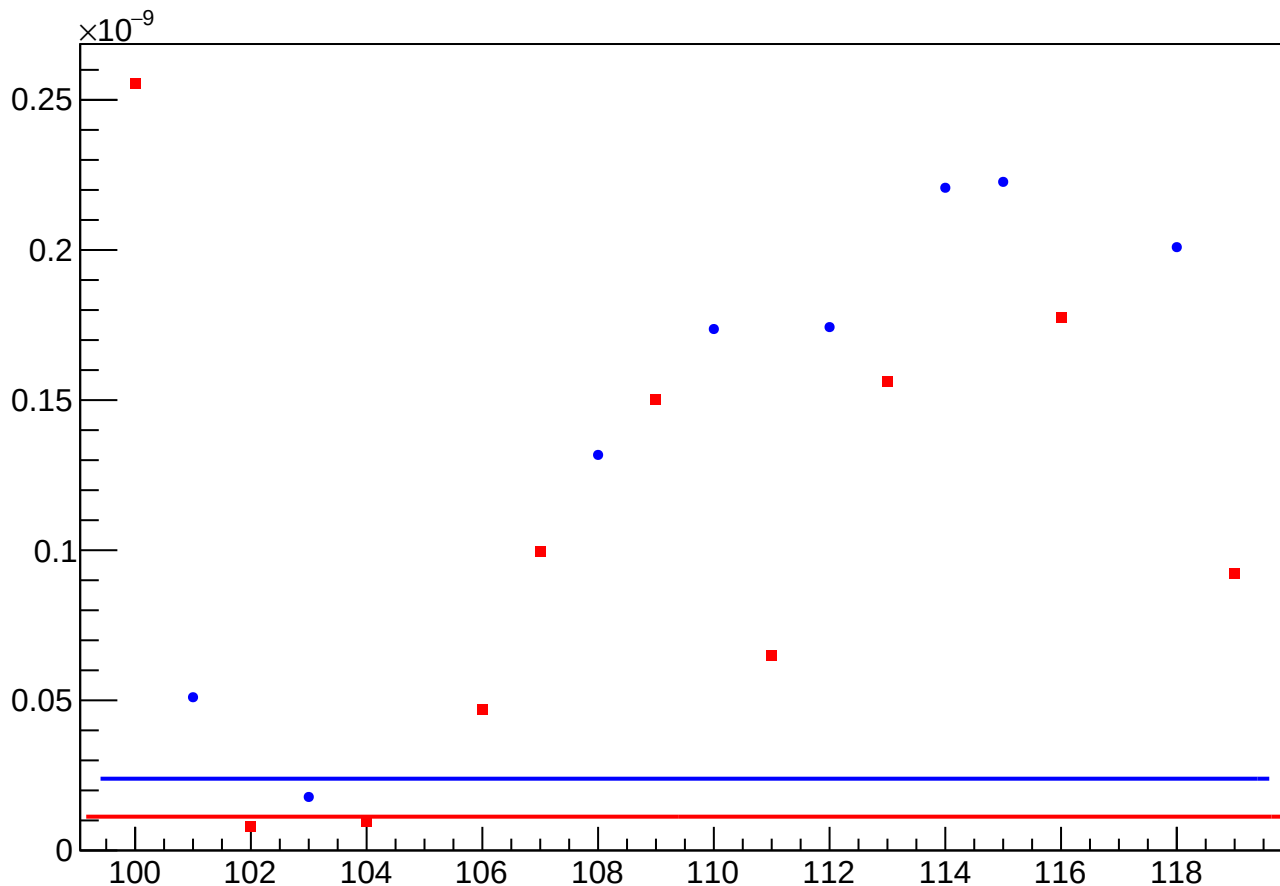
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.8/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 1624176.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1781671.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

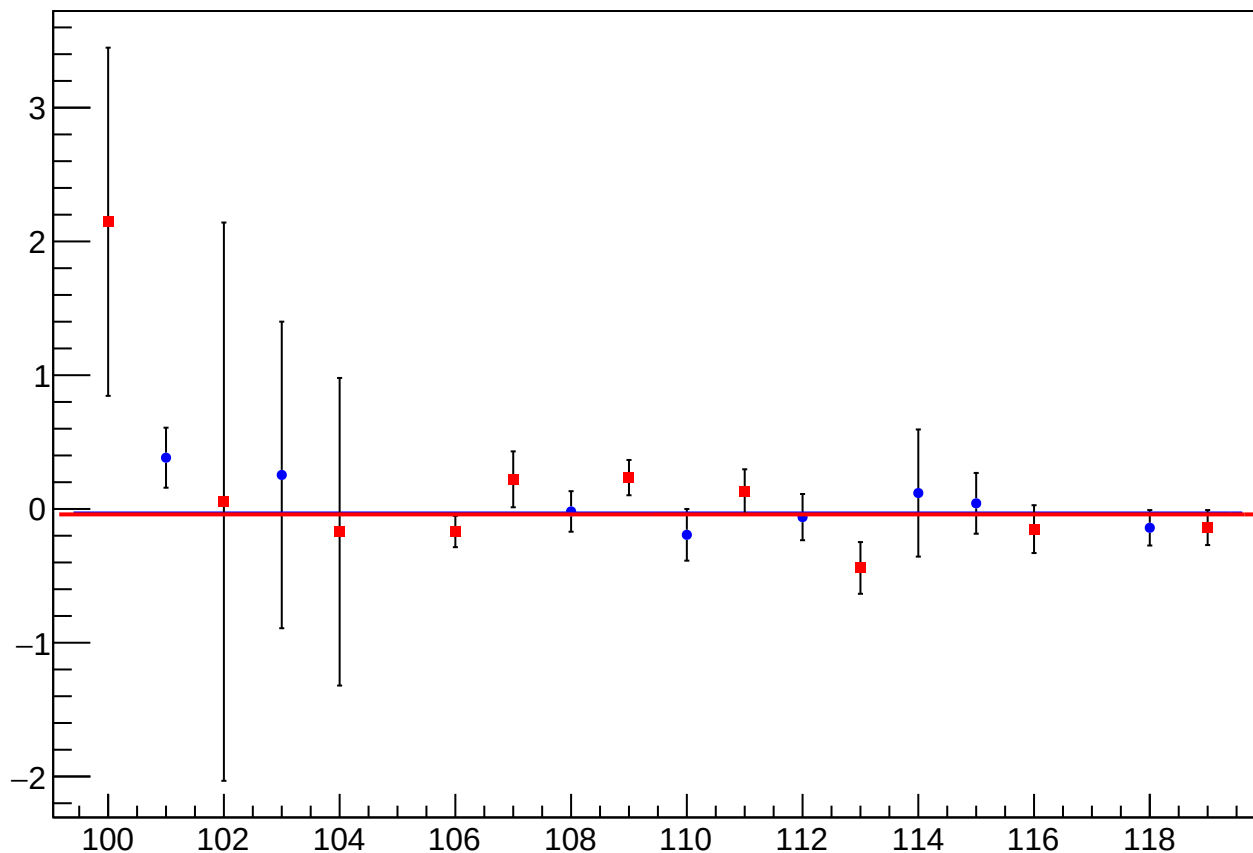
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3731187.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_us\_avg\_atlr\_avg\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.034 $\pm$ 0.070  $\chi^2$ /NDF: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.041 $\pm$ 0.057  $\chi^2$ /NDF: 16.2/9

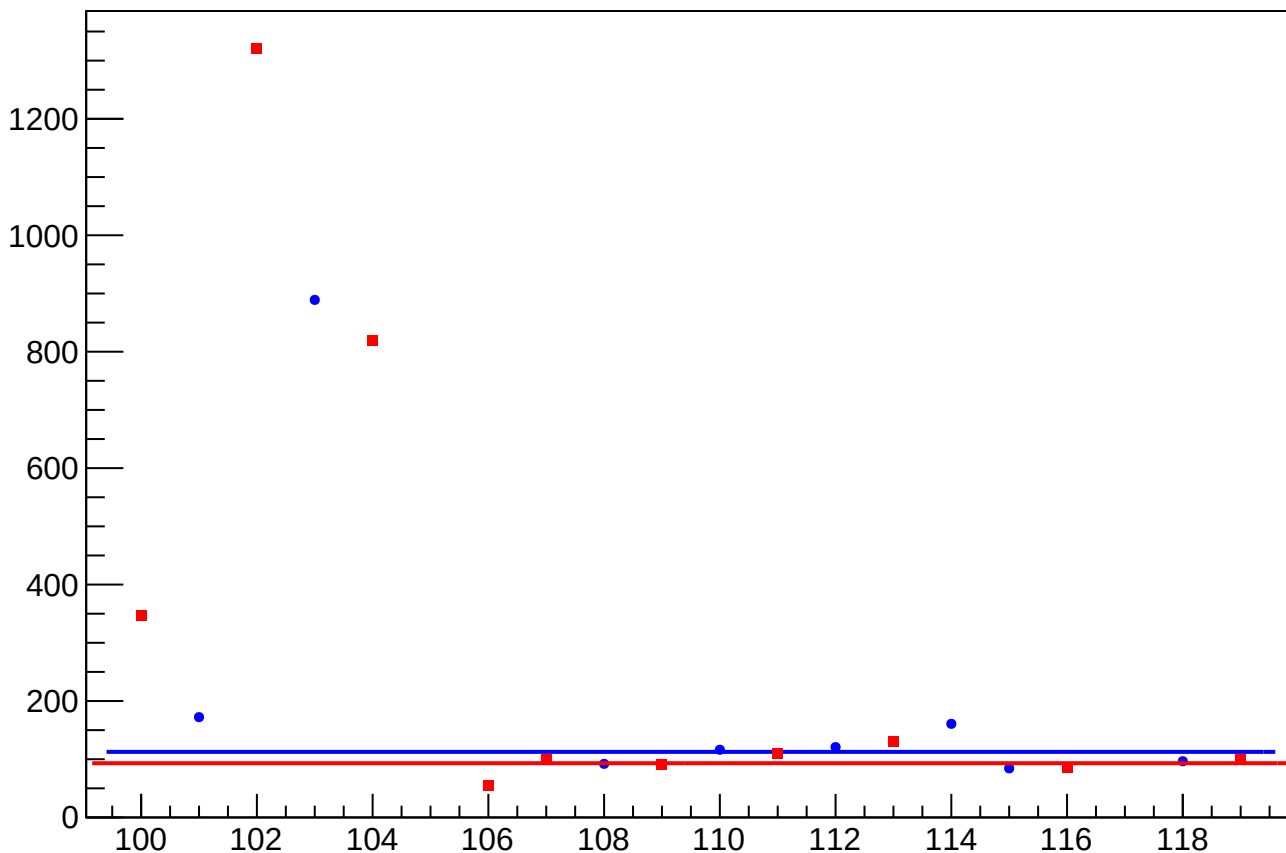
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.038 $\pm$ 0.044  $\chi^2$ /NDF: 21.3/17

- 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: 112.646+/-0.049  $\chi^2/\text{NDF}$ : 1182524.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 93.186+/-0.040  $\chi^2/\text{NDF}$ : 1881938.1/9

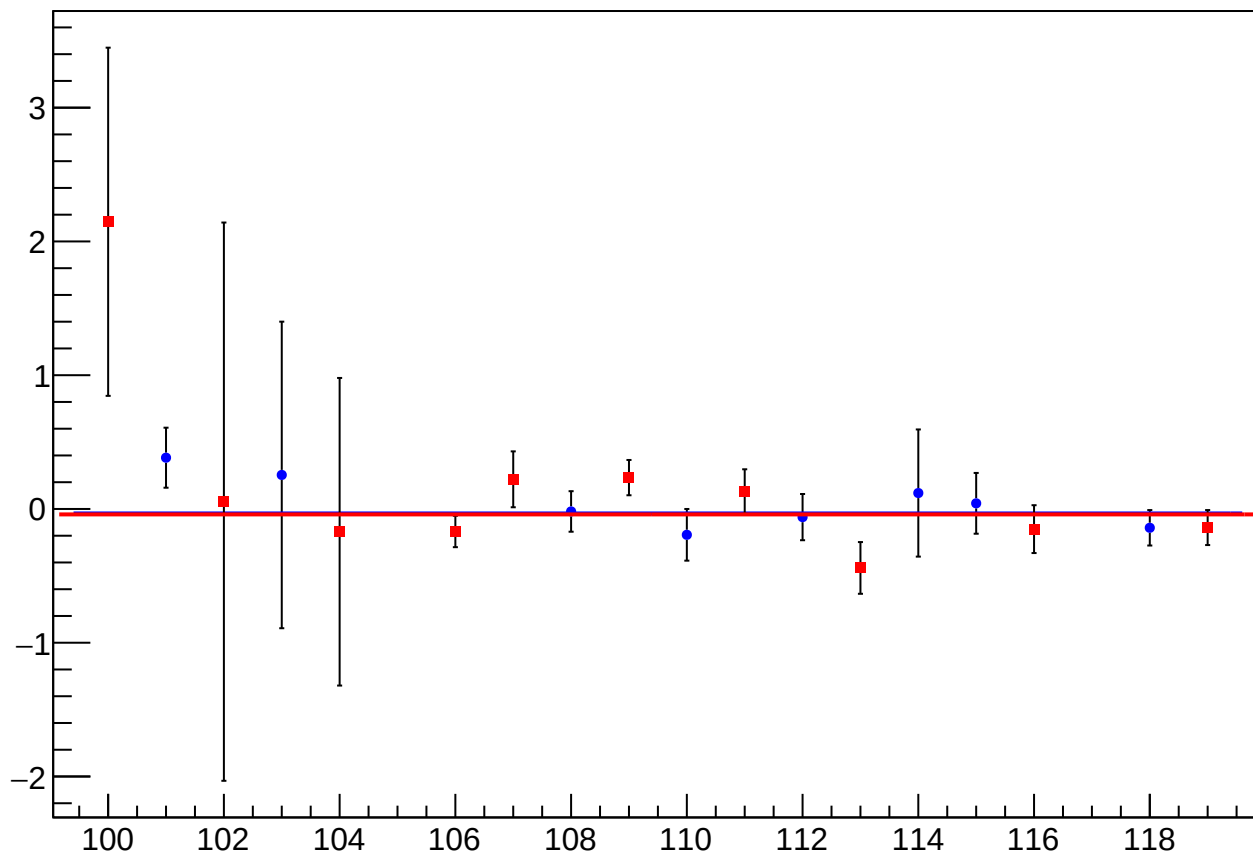
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 100.983+/-0.031  $\chi^2/\text{NDF}$ : 3157642.2/17

- 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:  $-0.034 \pm 0.070$   $\chi^2/\text{NDF}: 5.1/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.041 \pm 0.057$   $\chi^2/\text{NDF}: 16.2/9$

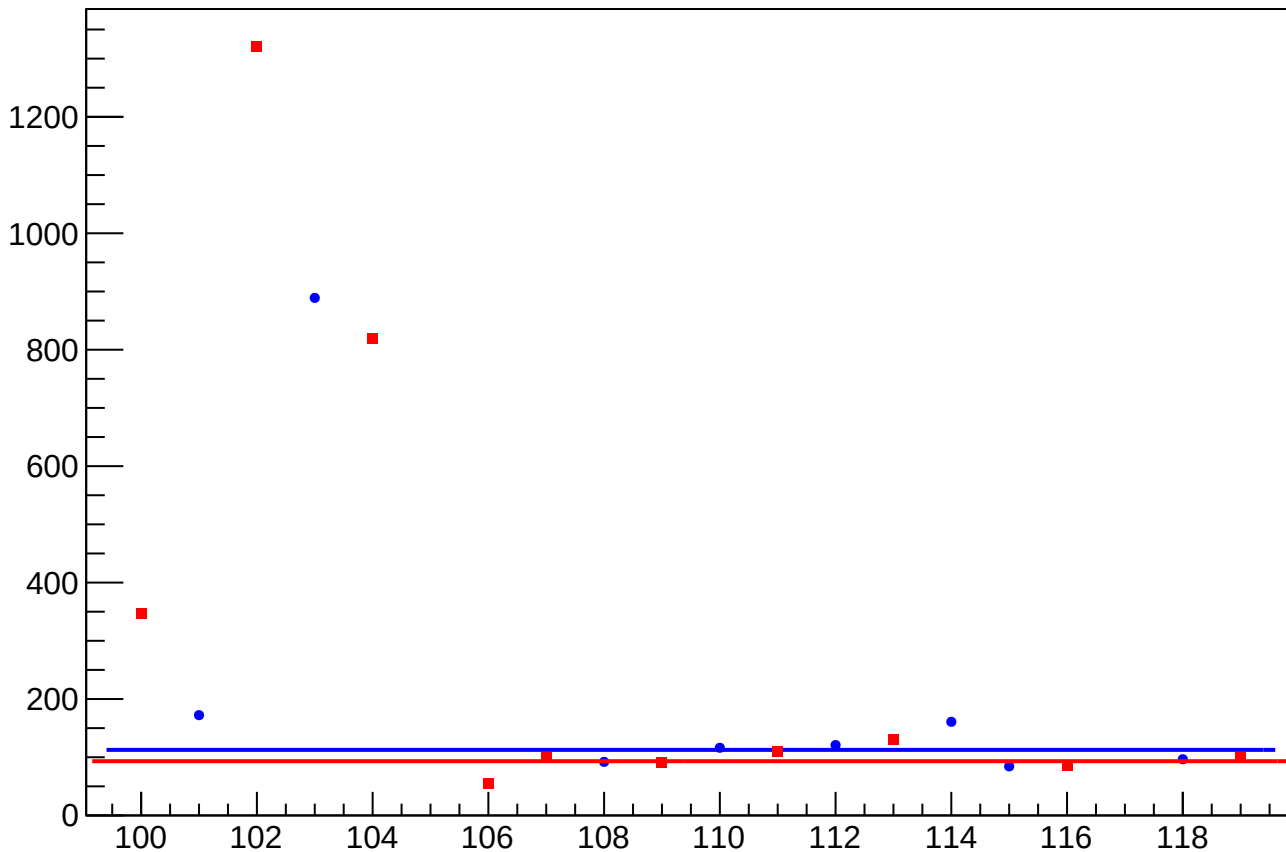
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.038 \pm 0.044$   $\chi^2/\text{NDF}: 21.3/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_us\_avg\_atlr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 112.646+/-0.049  $\chi^2/\text{NDF}$ : 1182524.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 93.186+/-0.040  $\chi^2/\text{NDF}$ : 1881938.1/9

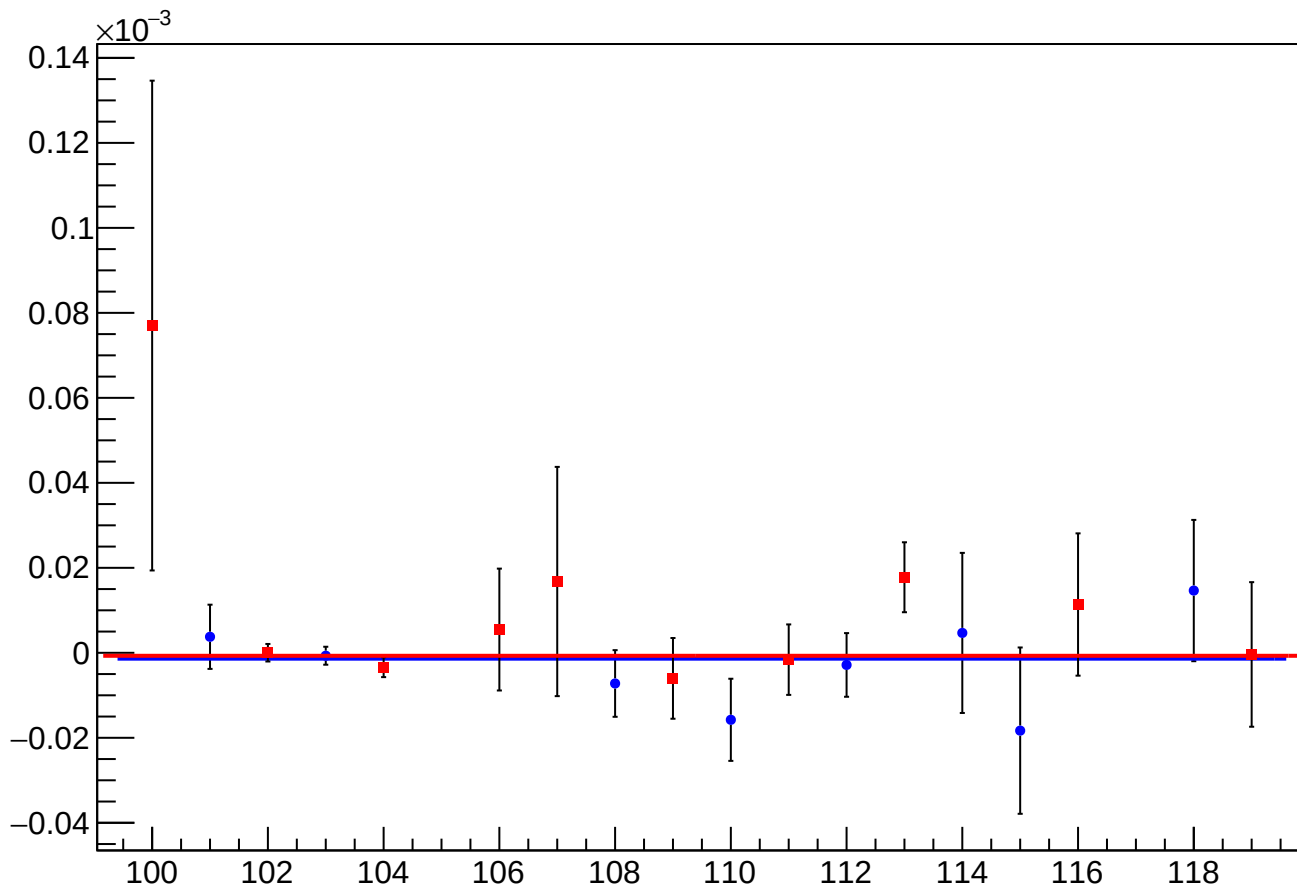
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 100.983+/-0.031  $\chi^2/\text{NDF}$ : 3157642.2/17

- 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  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 9.8/9

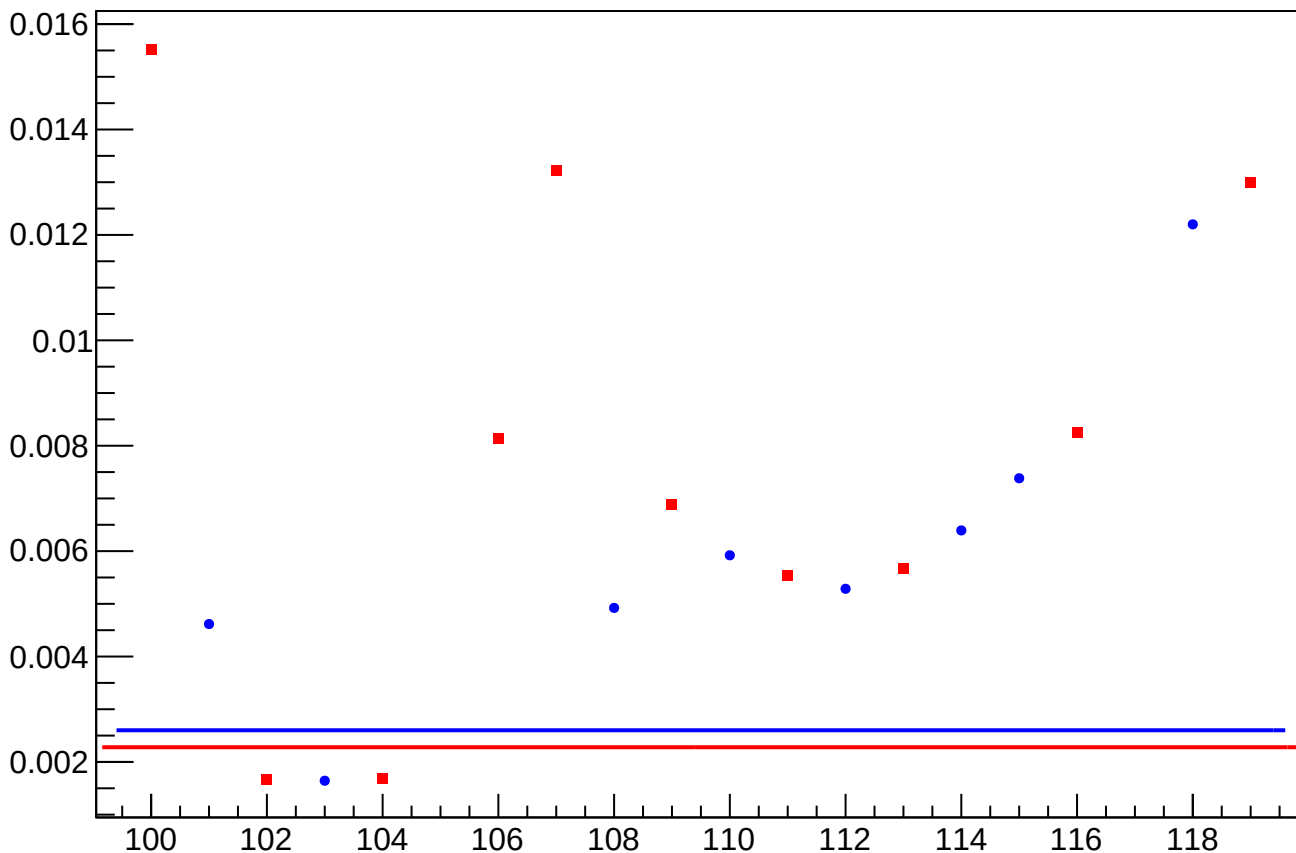
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 15.0/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2088349.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3244904.7/9

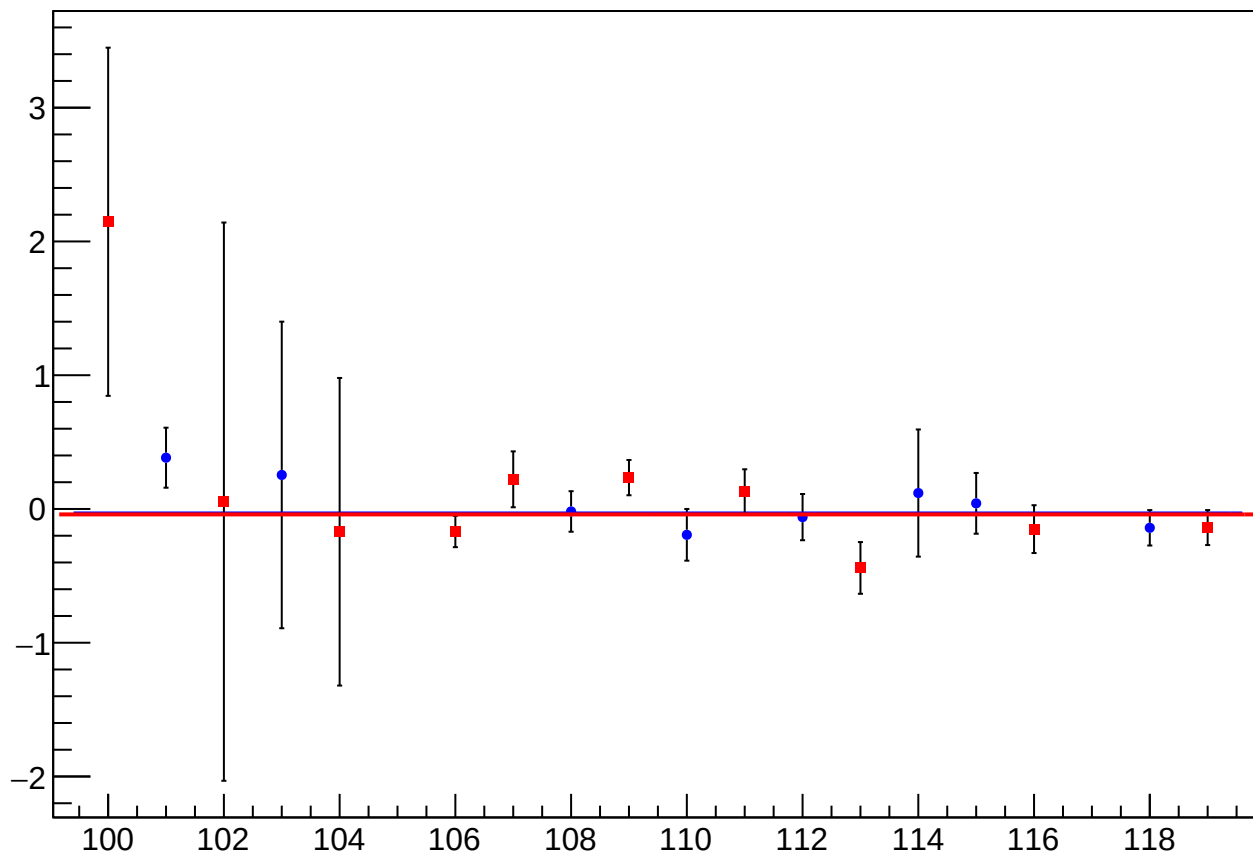
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 5370958.8/17

- 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: -0.034 $\pm$ 0.070  $\chi^2$ /NDF: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.041 $\pm$ 0.057  $\chi^2$ /NDF: 16.2/9

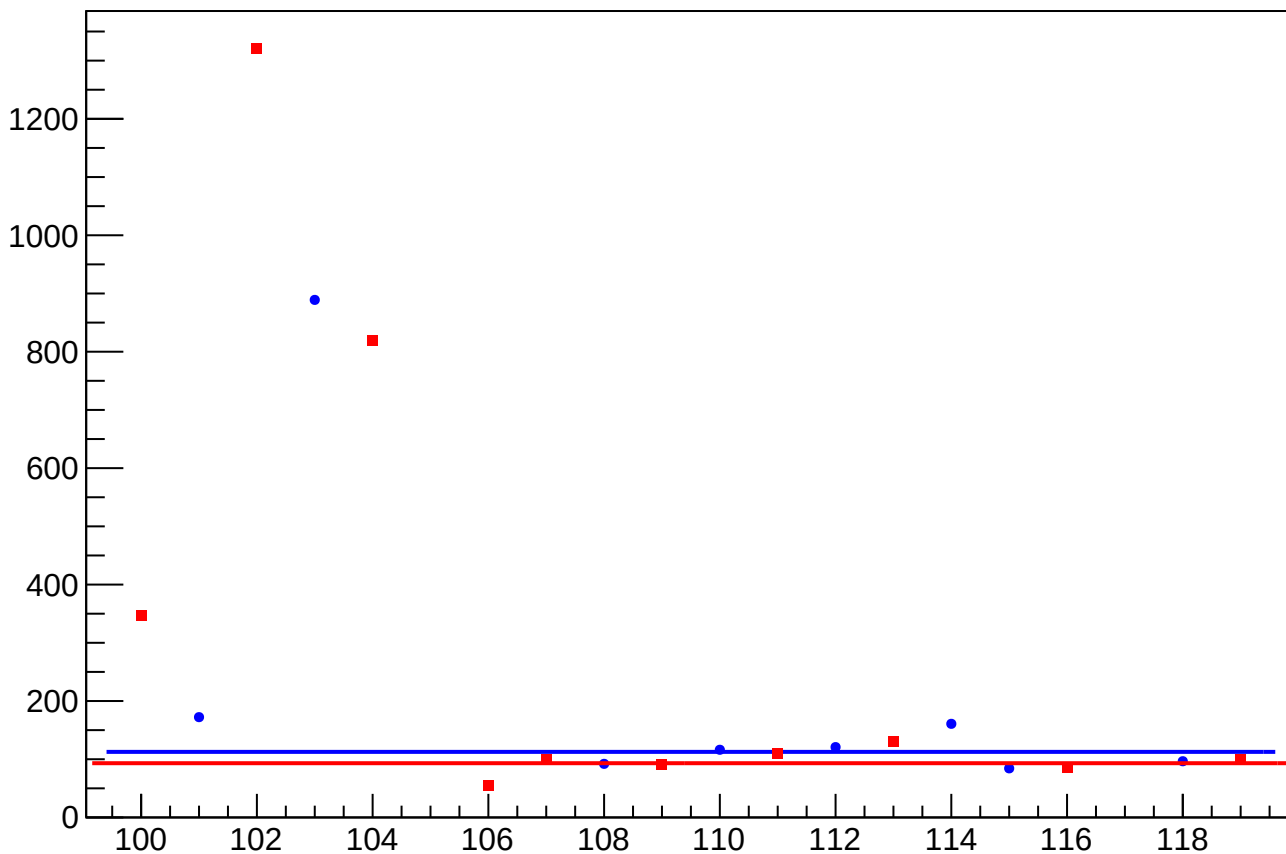
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.038 $\pm$ 0.044  $\chi^2$ /NDF: 21.3/17

- 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: 112.647+/-0.049  $\chi^2/\text{NDF}$ : 1182510.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 93.185+/-0.040  $\chi^2/\text{NDF}$ : 1882006.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

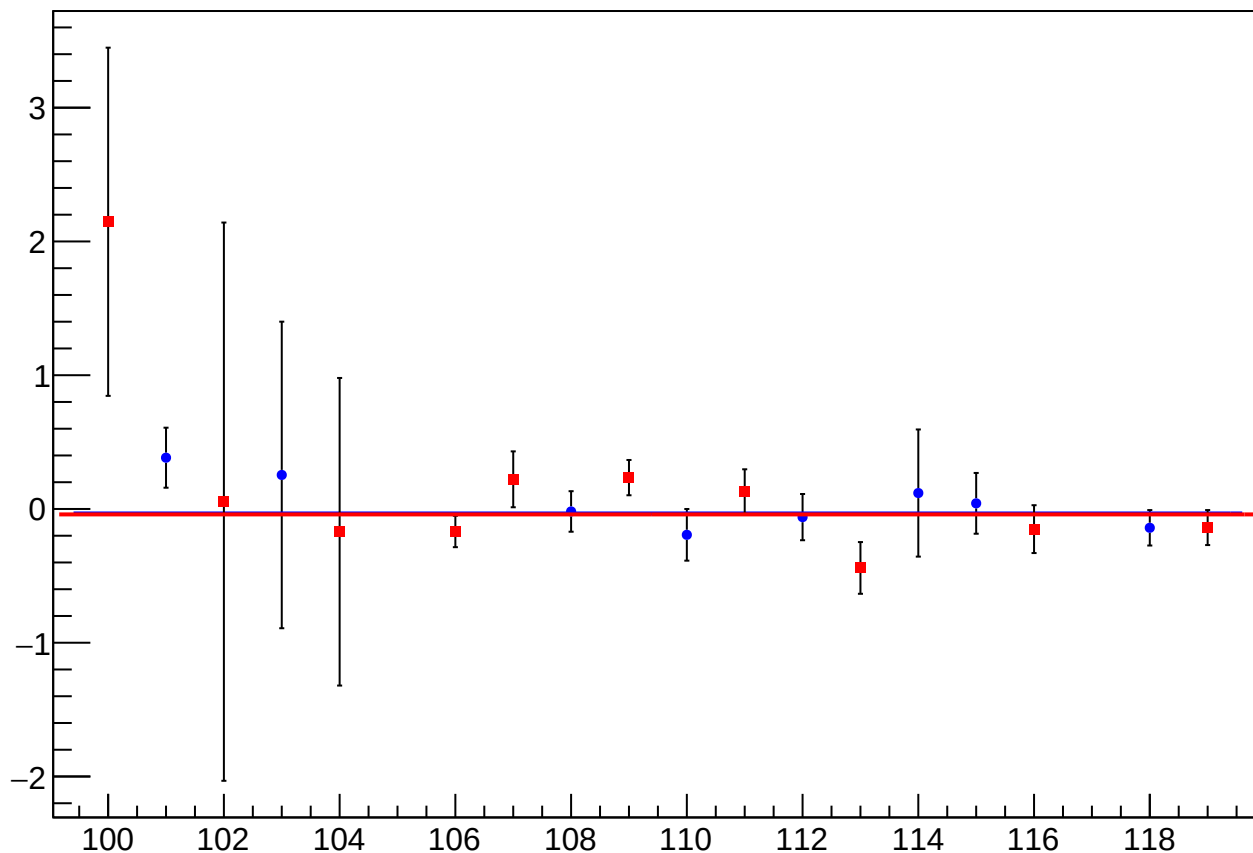
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 100.982+/-0.031  $\chi^2/\text{NDF}$ : 3157714.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.034 $\pm$ 0.070  $\chi^2$ /NDF: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.041 $\pm$ 0.057  $\chi^2$ /NDF: 16.2/9

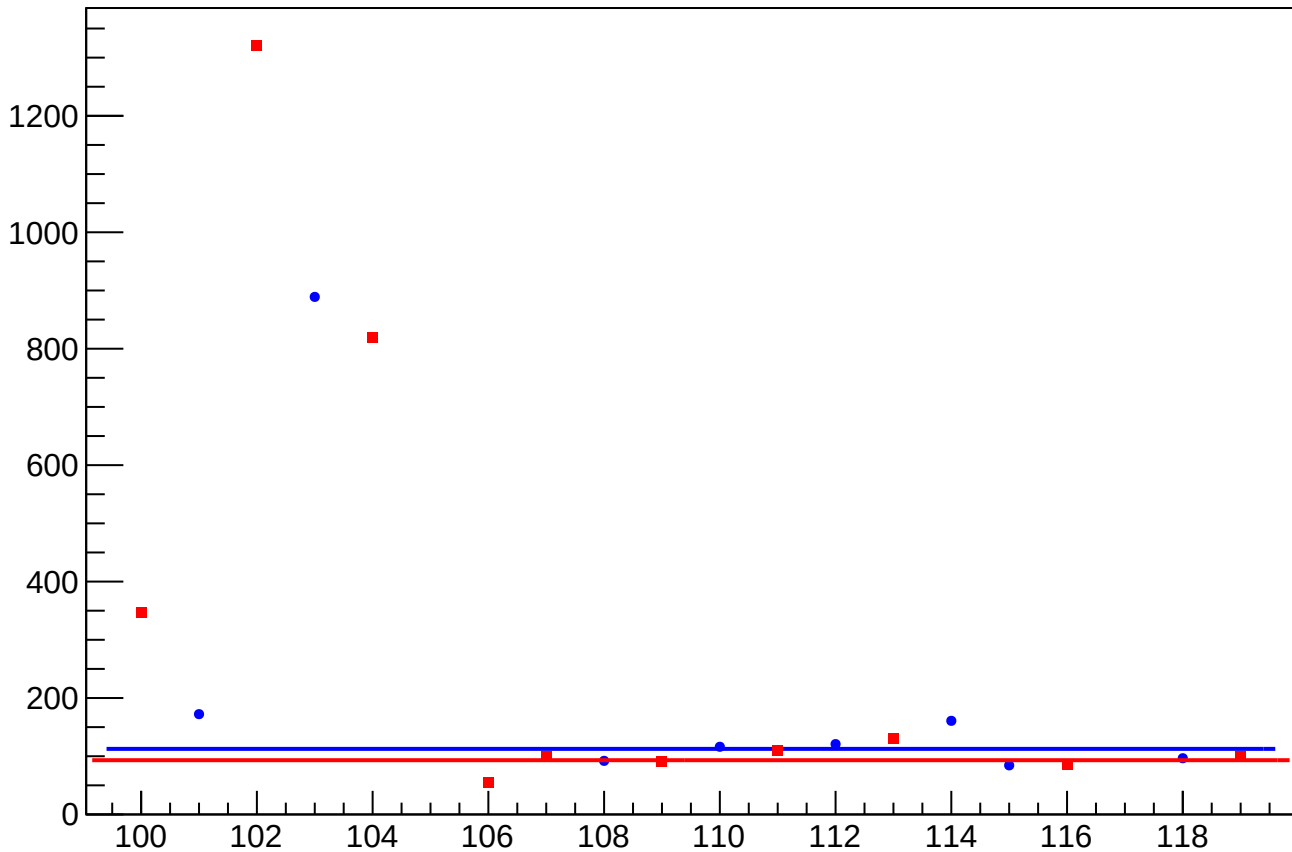
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.038 $\pm$ 0.044  $\chi^2$ /NDF: 21.3/17

- 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: 112.647+/-0.049  $\chi^2/\text{NDF}$ : 1182510.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 93.185+/-0.040  $\chi^2/\text{NDF}$ : 1882006.8/9

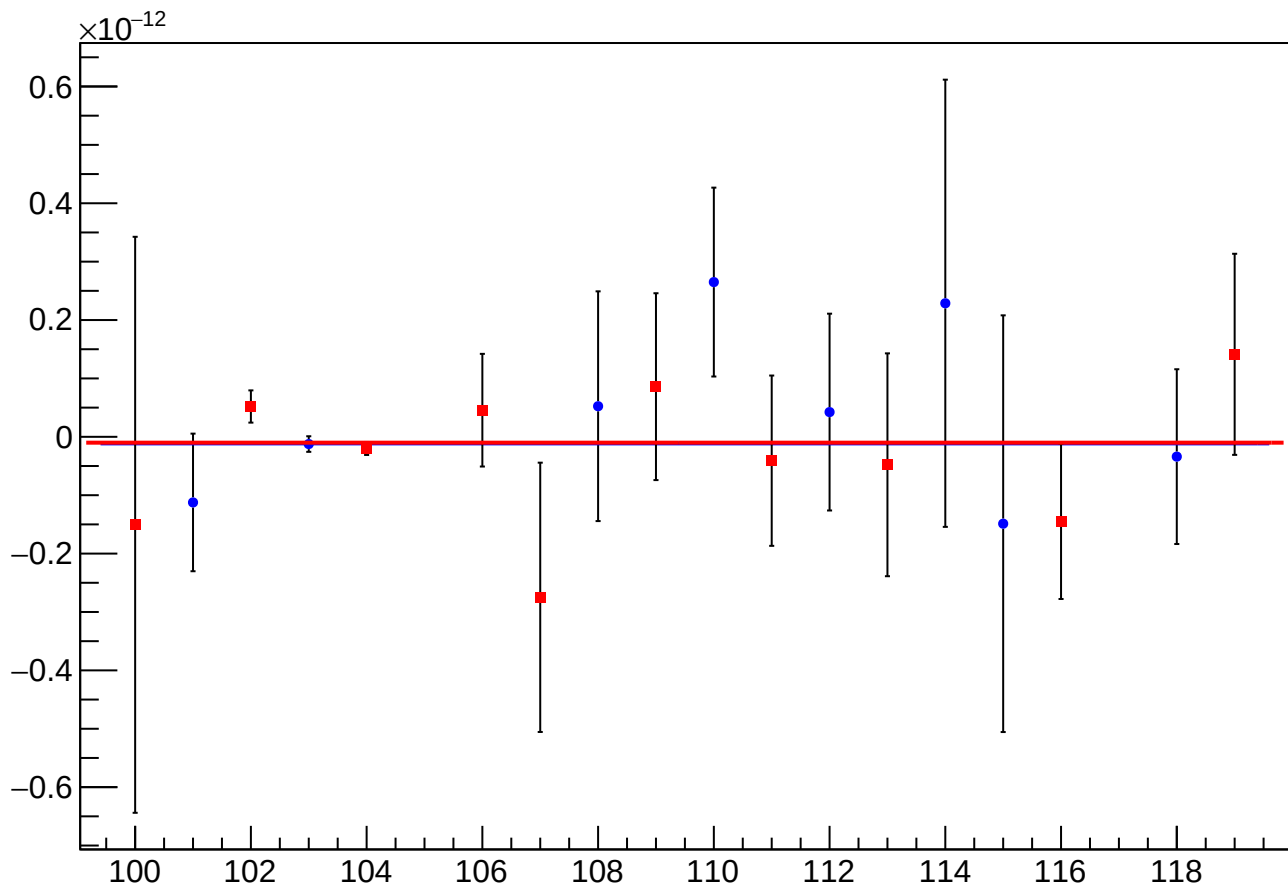
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 100.982+/-0.031  $\chi^2/\text{NDF}$ : 3157714.8/17

- 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  $\chi^2$ /NDF: 4.4/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 9.8/9

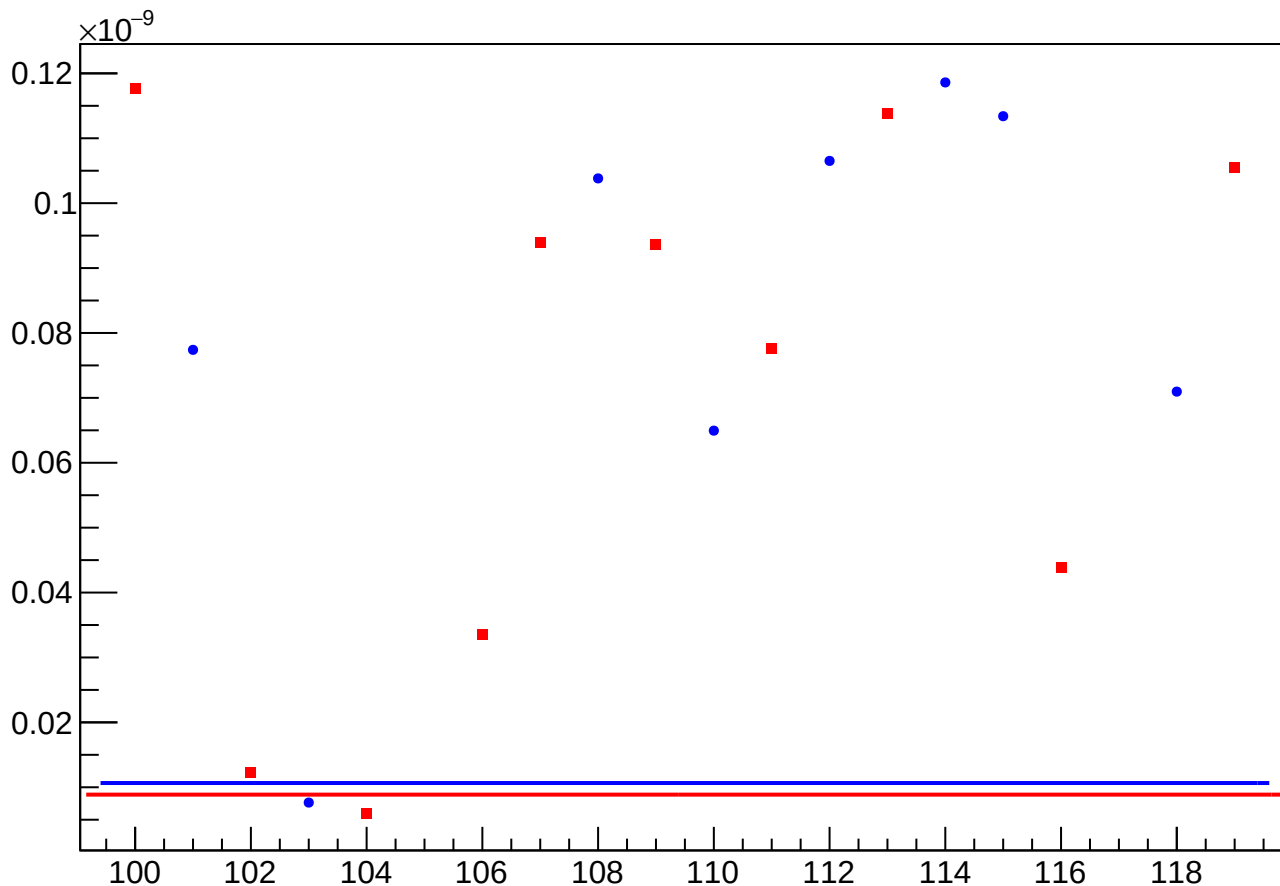
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 14.2/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2713990.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3052739.1/9

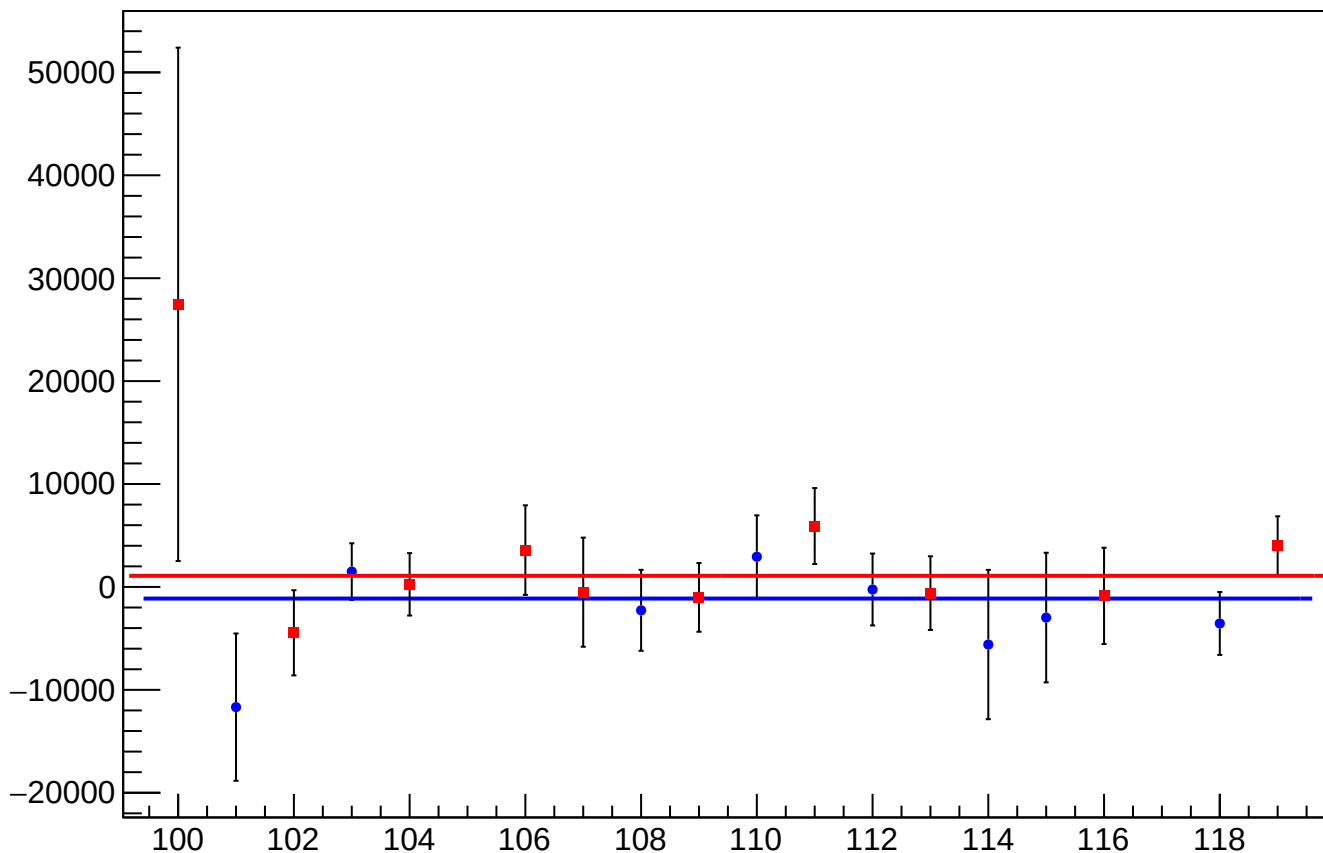
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5790085.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: -1129.367+/-1397.927  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1080.454+/-1227.058  $\chi^2/\text{NDF}$ : 6.9/9

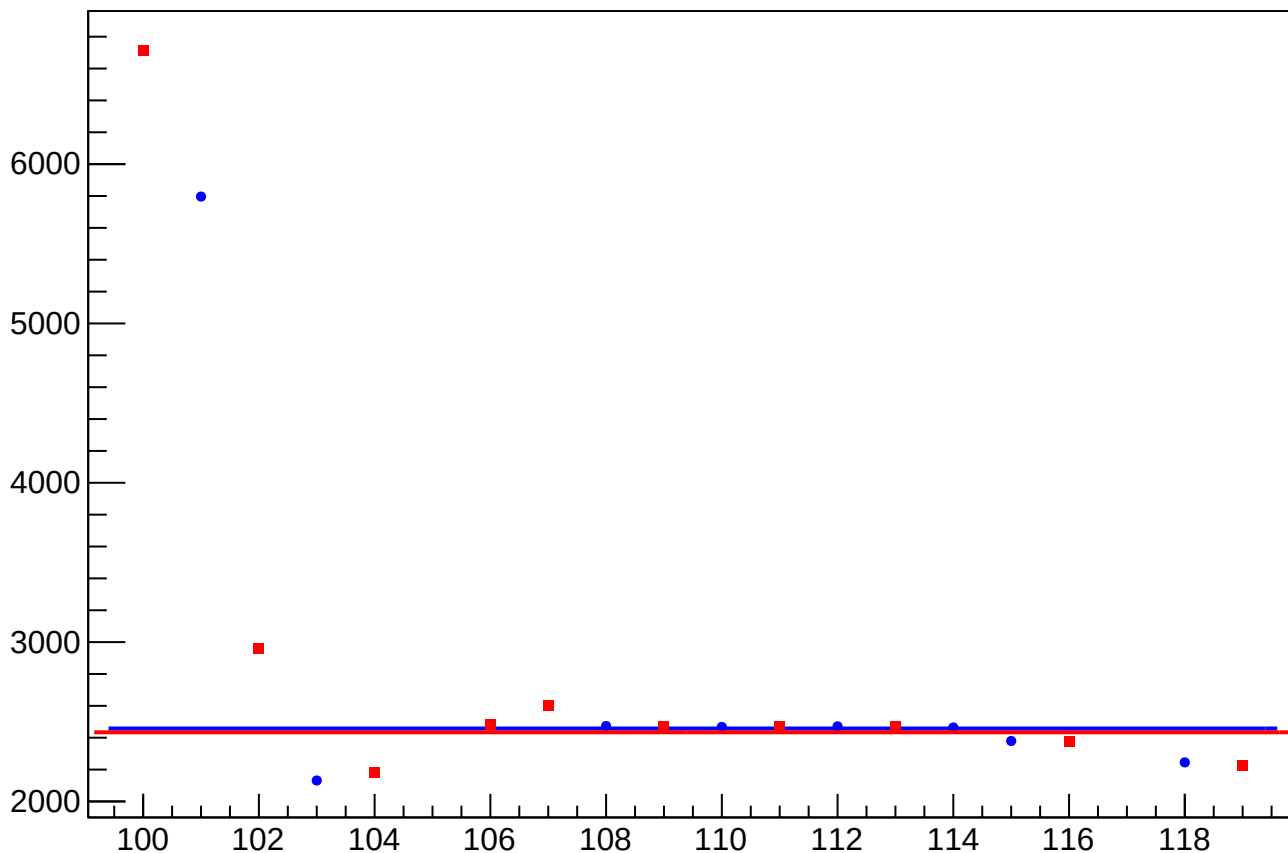
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 118.781+/-922.188  $\chi^2/\text{NDF}$ : 13.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2457.848+/-0.988  $\chi^2/\text{NDF}$ : 473419.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2433.941+/-0.868  $\chi^2/\text{NDF}$ : 118357.7/9

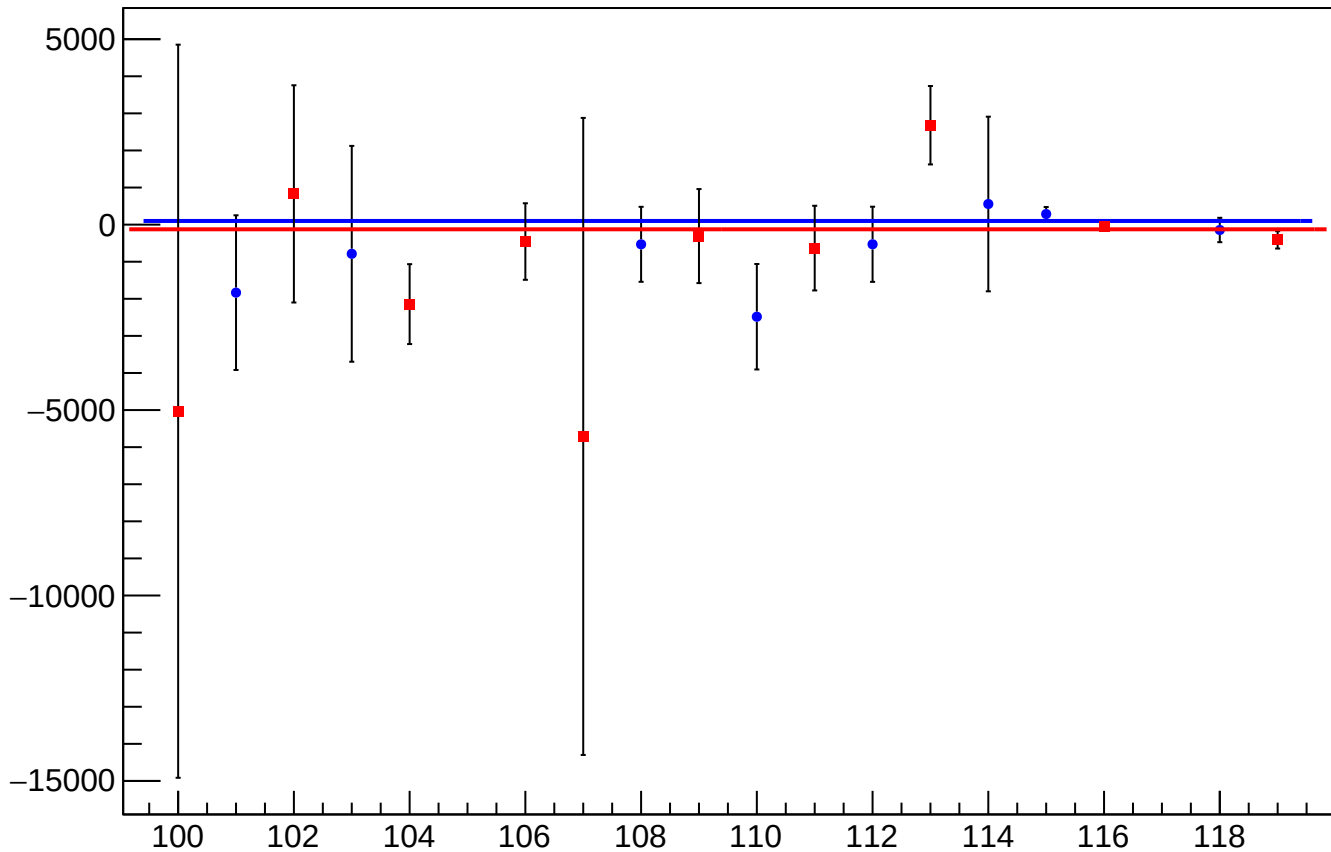
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2444.345+/-0.652  $\chi^2/\text{NDF}$ : 592107.9/17

- 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: 98.984+/-157.660  $\chi^2/\text{NDF}$ : 6.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -125.965+/-107.832  $\chi^2/\text{NDF}$ : 13.6/9

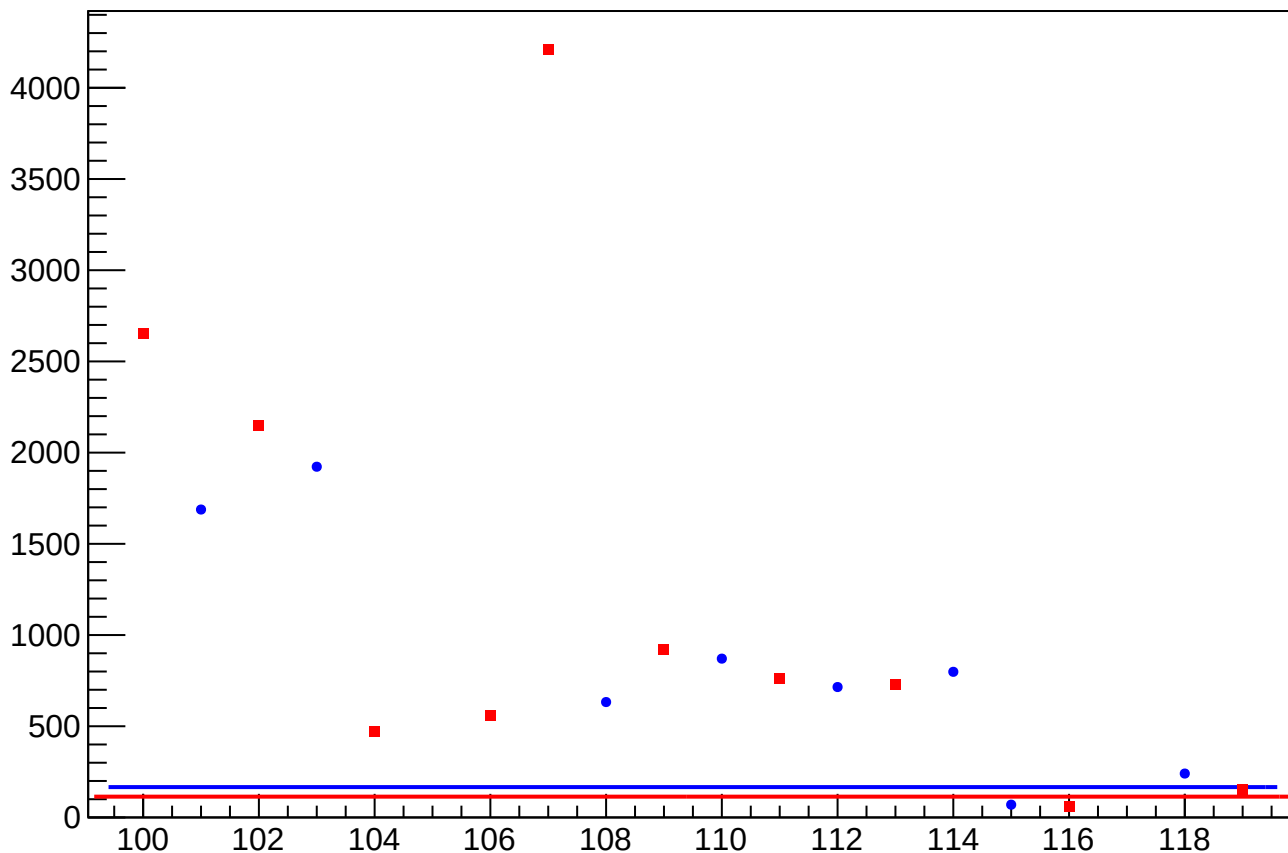
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -54.272+/-89.005  $\chi^2/\text{NDF}$ : 21.5/17

- 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: 166.440 $\pm$ 0.111  $\chi^2$ /NDF: 4061389.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 114.054 $\pm$ 0.076  $\chi^2$ /NDF: 4682360.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

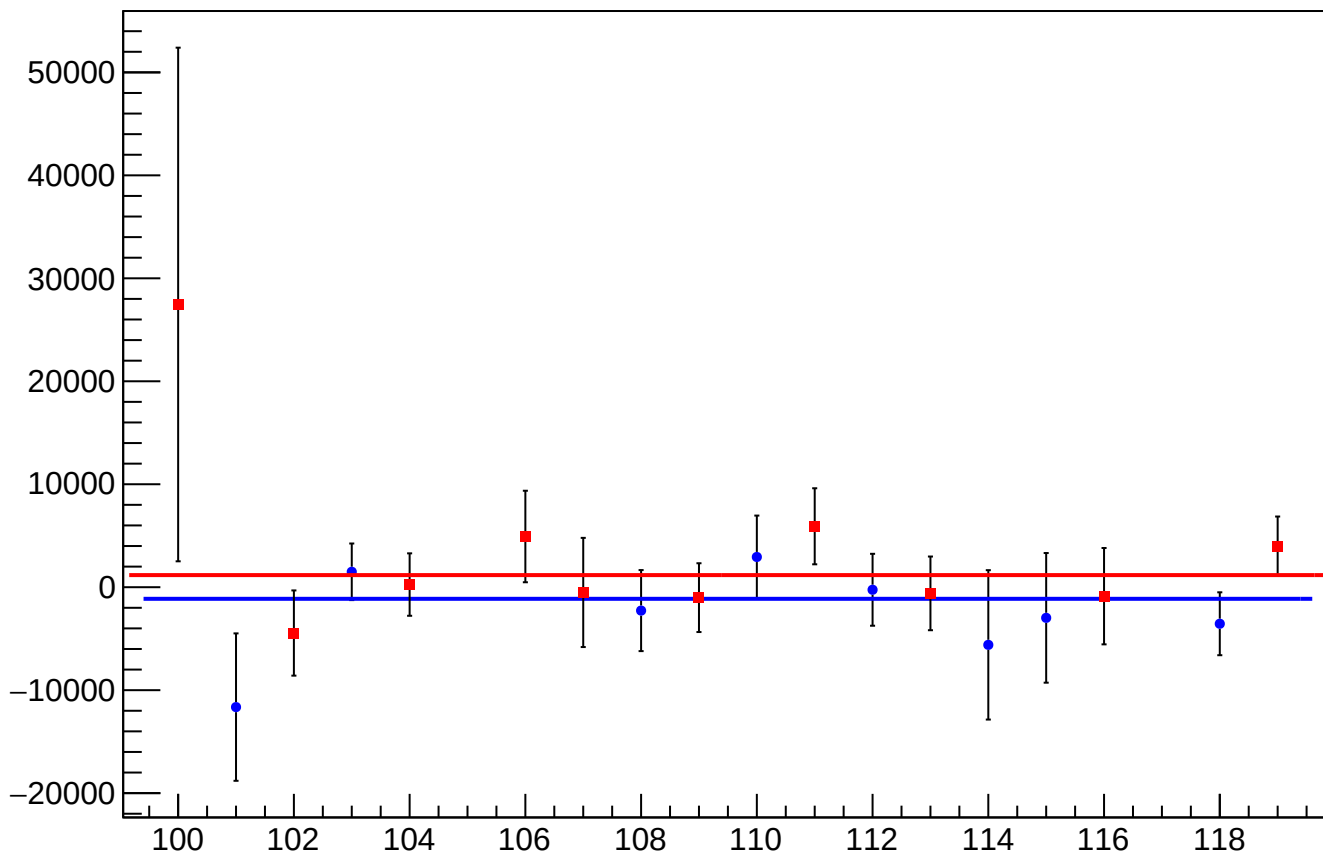
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 130.750 $\pm$ 0.063  $\chi^2$ /NDF: 8894184.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# cor\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: -1127.004+/-1397.928  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1176.006+/-1229.088  $\chi^2/\text{NDF}$ : 7.3/9

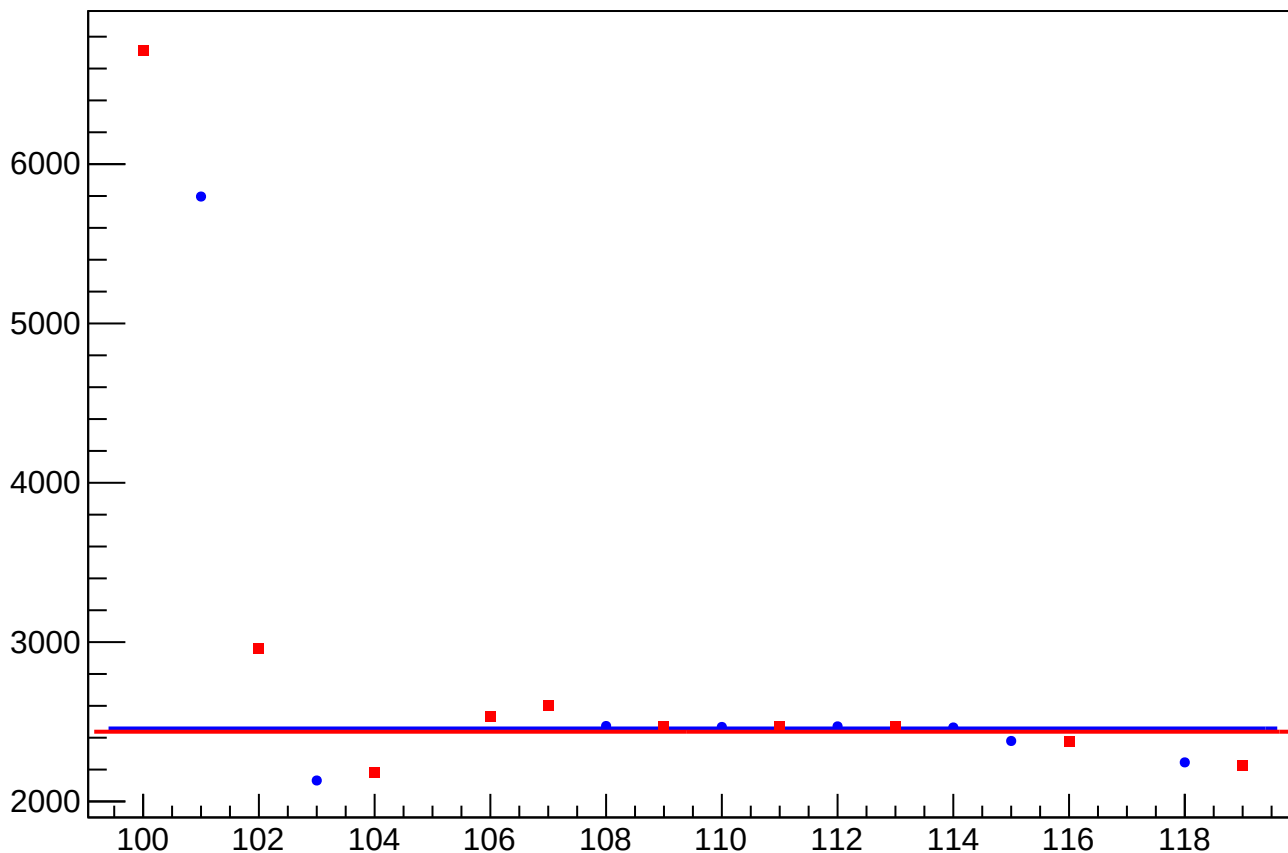
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 171.907+/-923.050  $\chi^2/\text{NDF}$ : 14.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2457.848 $\pm$ 0.988  $\chi^2$ /NDF: 473420.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2437.655 $\pm$ 0.869  $\chi^2$ /NDF: 119101.3/9

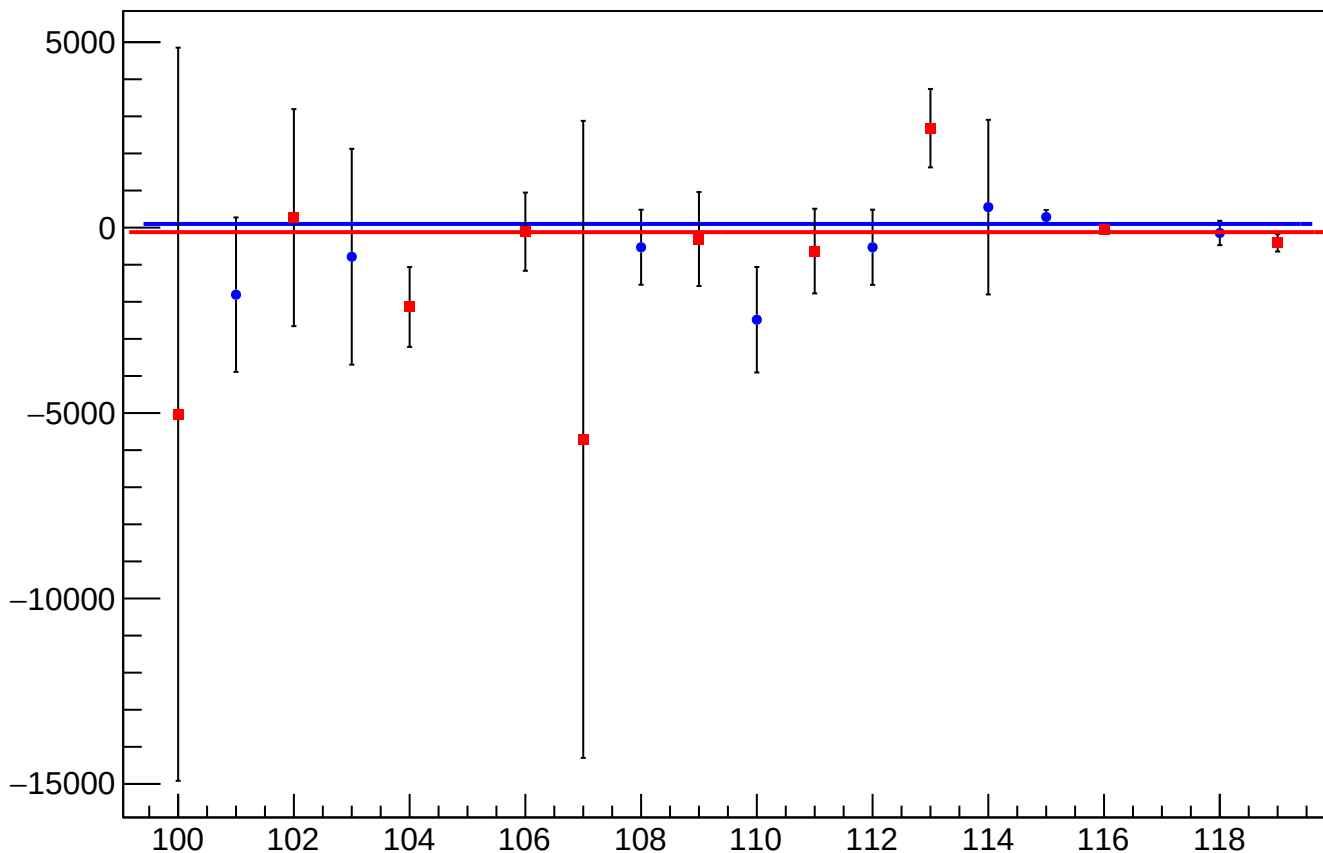
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2446.459 $\pm$ 0.653  $\chi^2$ /NDF: 592756.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_cor\_correction\_mean vs Slug



Right In: 99.189+/-157.703  $\chi^2/\text{NDF}$ : 6.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -122.123+/-107.687  $\chi^2/\text{NDF}$ : 13.4/9

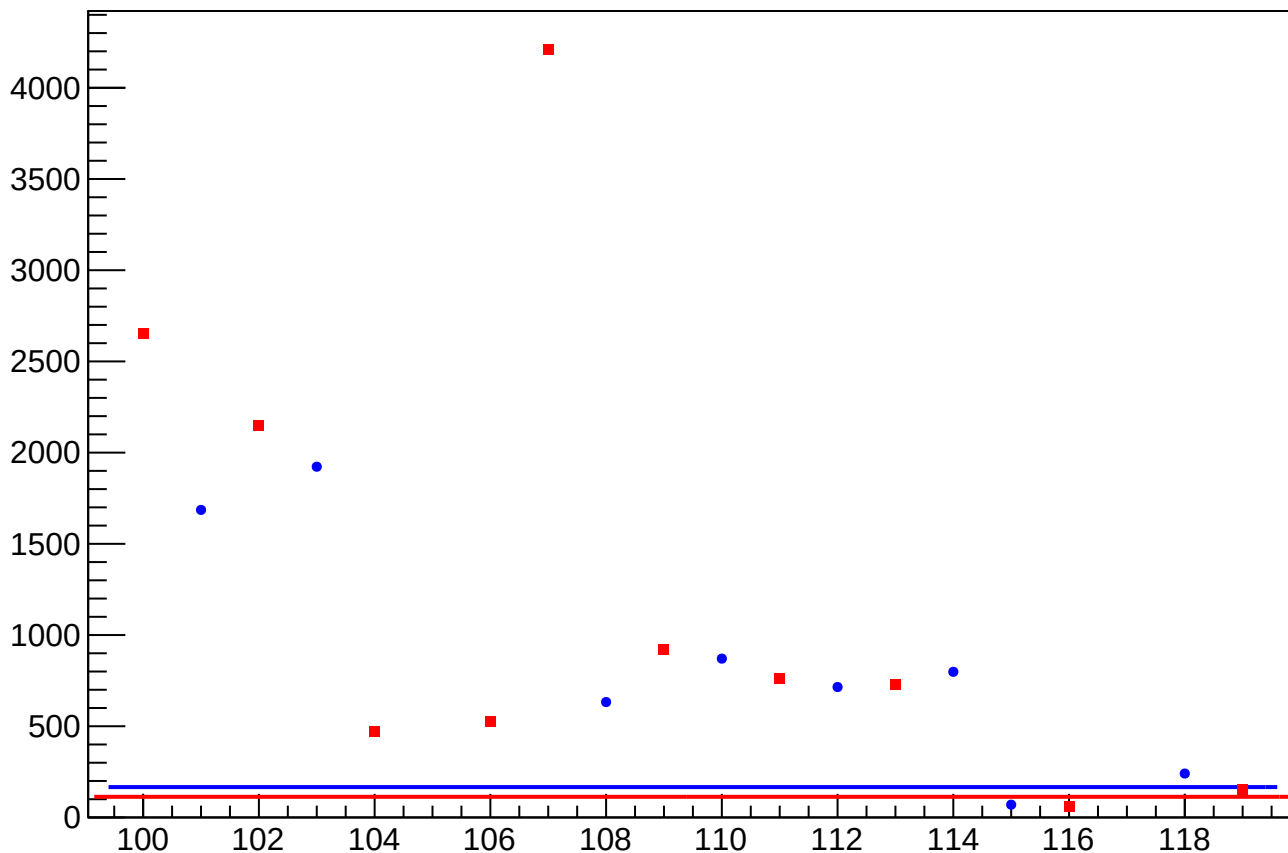
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -51.746+/-88.931  $\chi^2/\text{NDF}$ : 21.3/17

- 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: 166.523 $\pm$ 0.112  $\chi^2$ /NDF: 4060387.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 113.203 $\pm$ 0.076  $\chi^2$ /NDF: 4623927.9/9

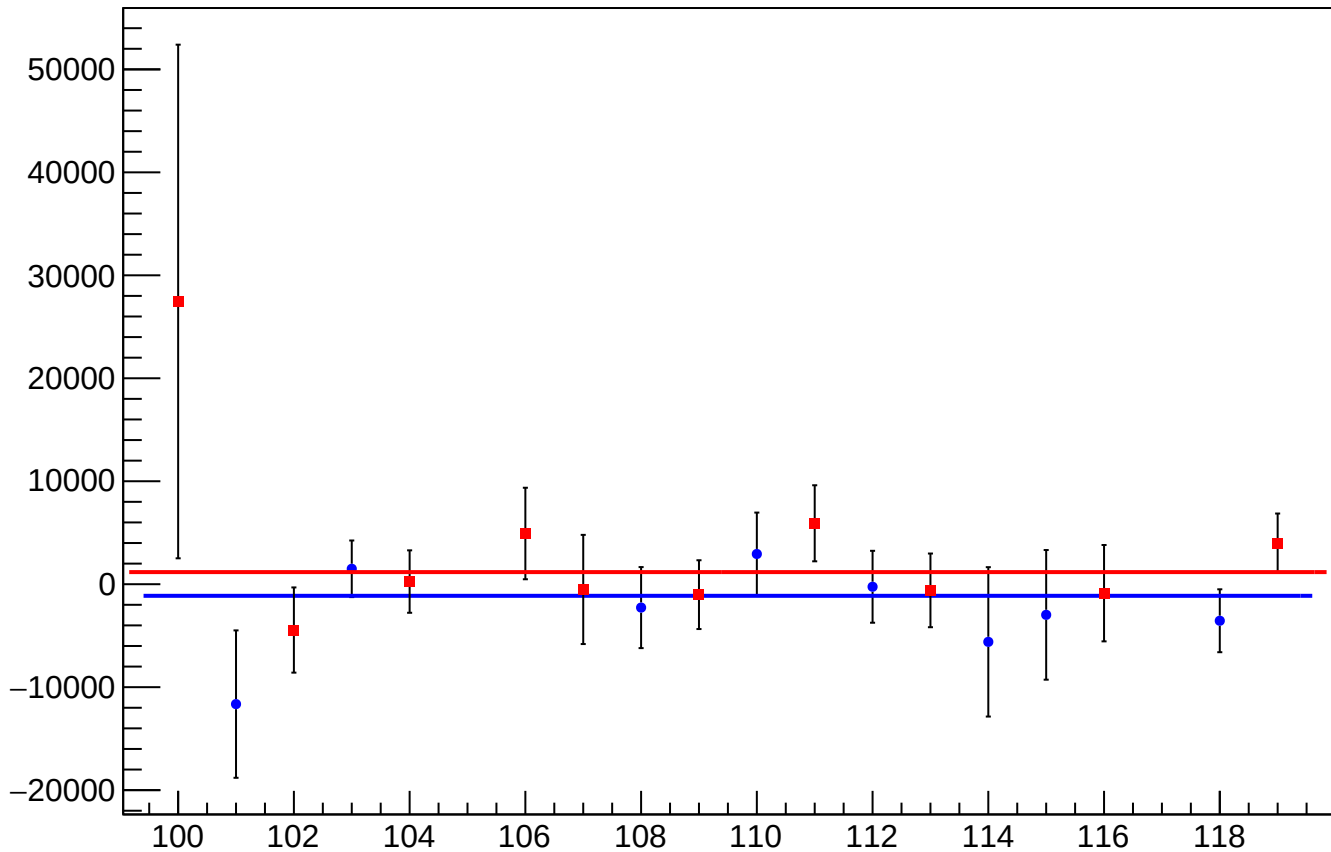
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 130.159 $\pm$ 0.063  $\chi^2$ /NDF: 8840236.1/17

- 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: -1127.004±-1397.928  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1176.006±/-1229.088  $\chi^2/\text{NDF}$ : 7.3/9

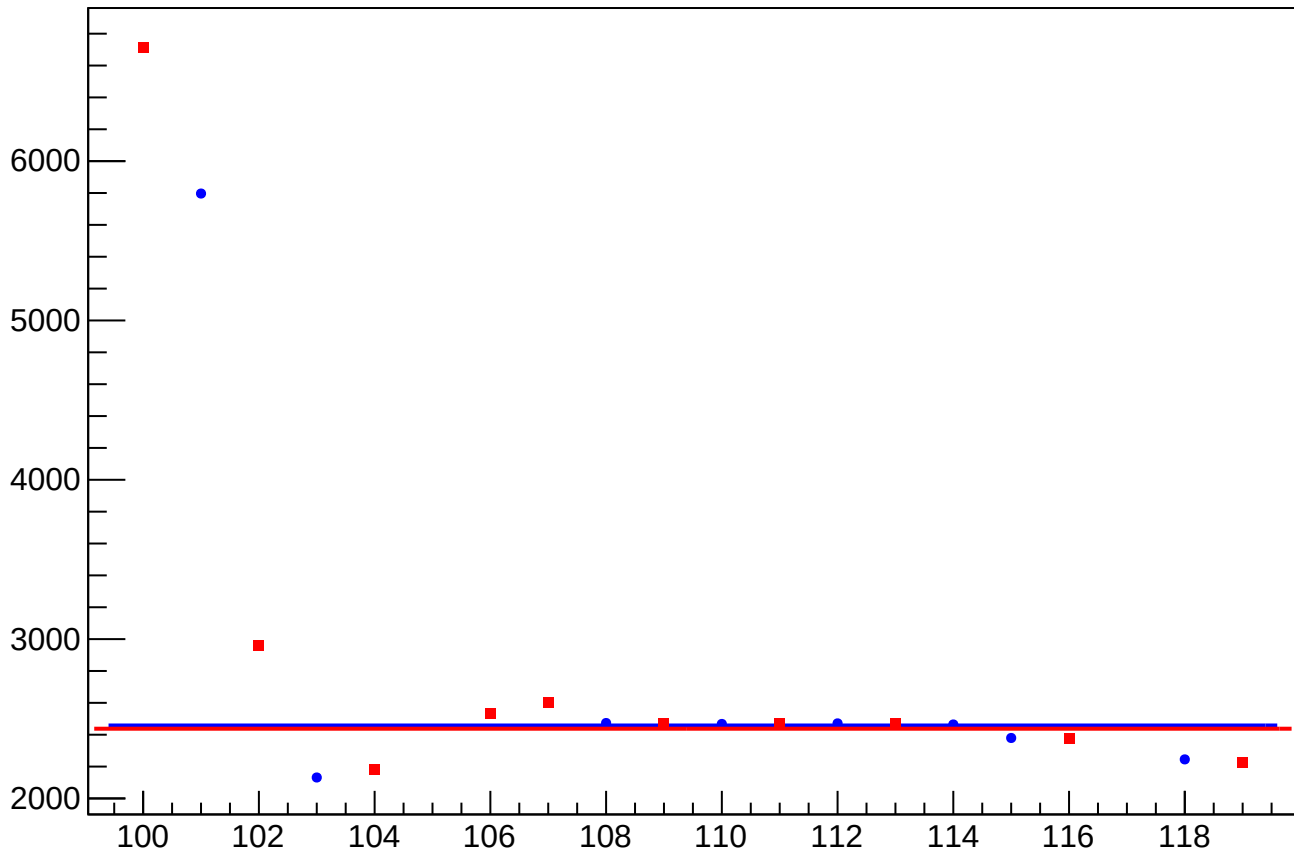
Left In: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 171.907±/-923.050  $\chi^2/\text{NDF}$ : 14.2/17

- sign 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2457.848 $\pm$ 0.988  $\chi^2$ /NDF: 473420.0/7

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

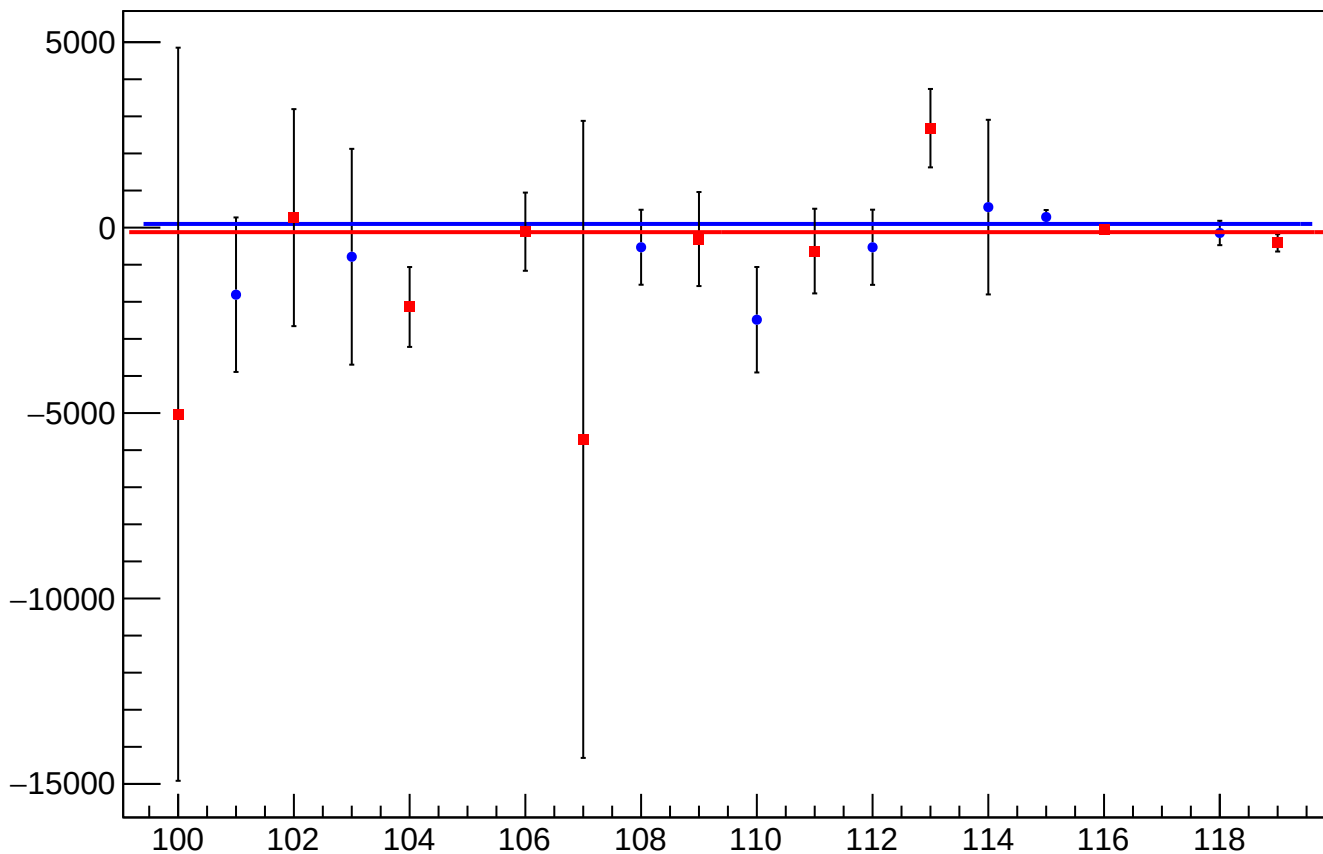
Right Out: 2437.655 $\pm$ 0.869  $\chi^2$ /NDF: 119101.3/9

All: 2446.459 $\pm$ 0.653  $\chi^2$ /NDF: 592756.6/17

- 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\_at1lr\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 99.189+/-157.703  $\chi^2/\text{NDF}$ : 6.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -122.123+/-107.687  $\chi^2/\text{NDF}$ : 13.4/9

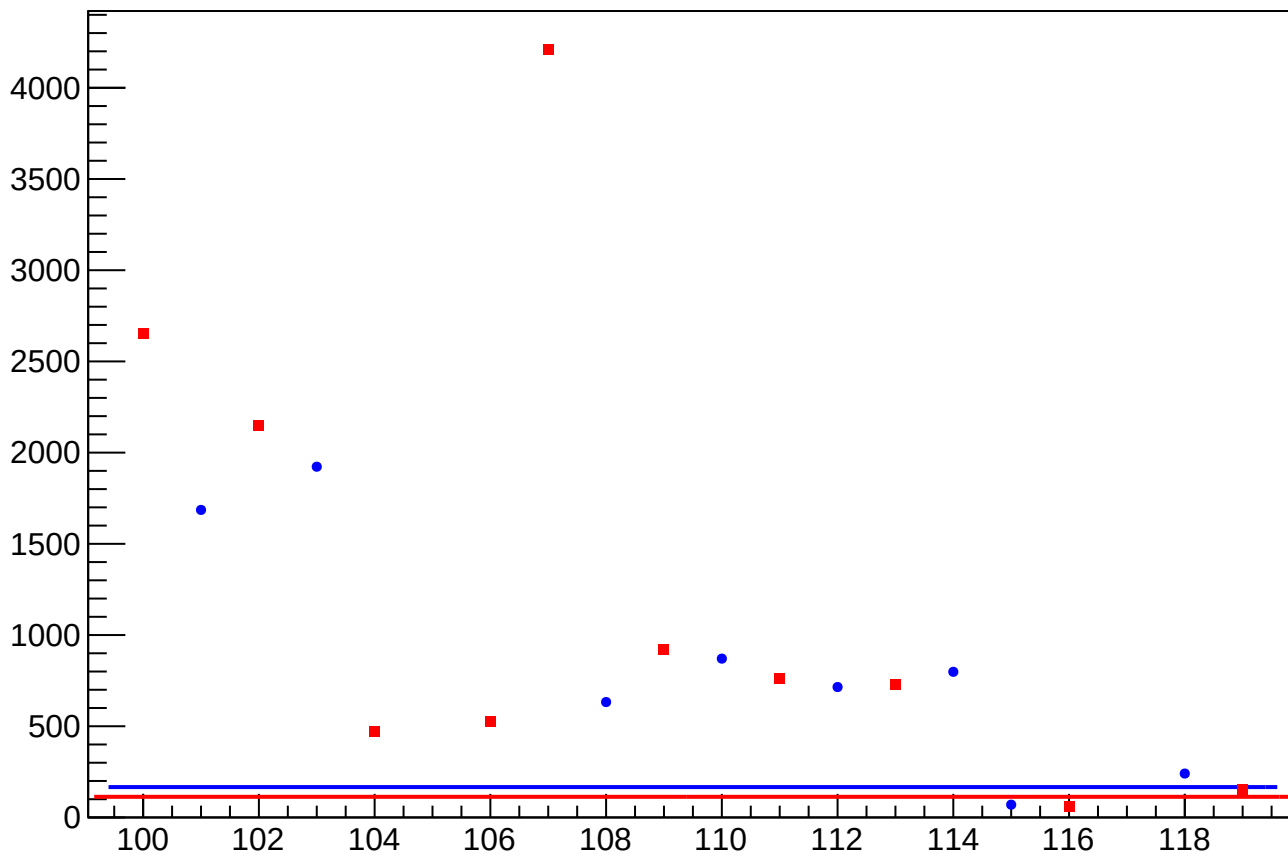
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -51.746+/-88.931  $\chi^2/\text{NDF}$ : 21.3/17

- 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: 166.523 $\pm$ 0.112  $\chi^2$ /NDF: 4060387.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 113.203 $\pm$ 0.076  $\chi^2$ /NDF: 4623927.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

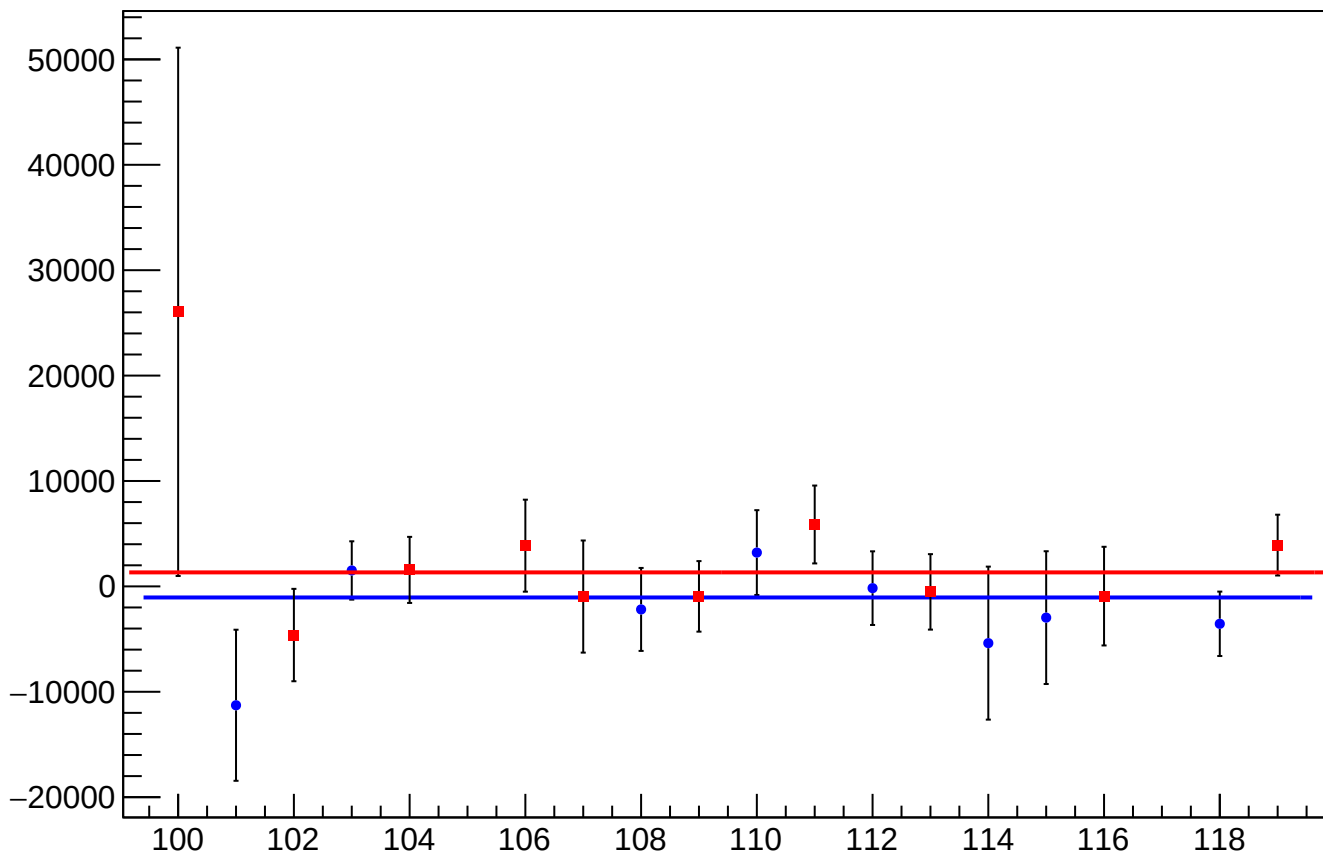
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 130.159 $\pm$ 0.063  $\chi^2$ /NDF: 8840236.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# dit\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: -1051.510 $\pm$ 1400.759  $\chi^2$ /NDF: 5.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1327.952 $\pm$ 1240.664  $\chi^2$ /NDF: 6.6/9

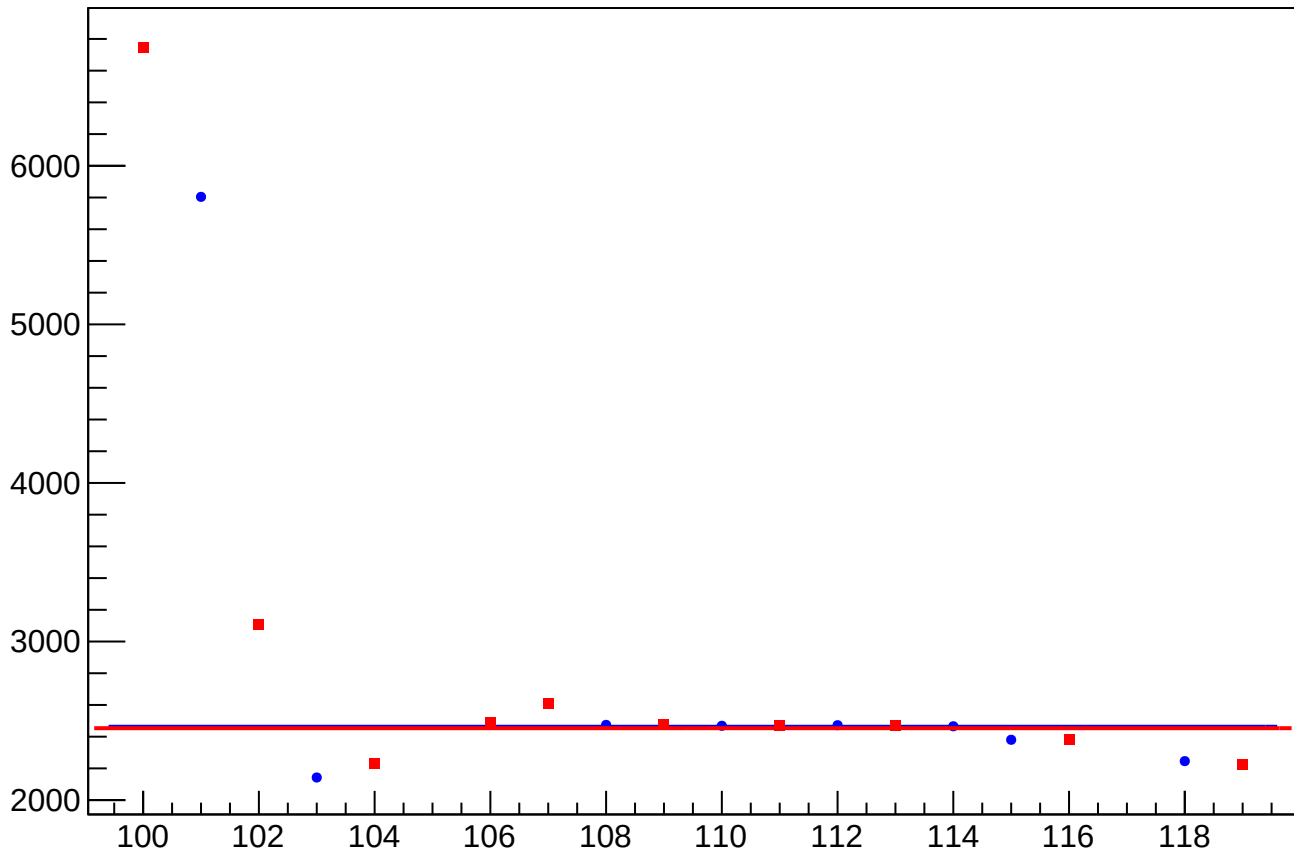
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 281.911 $\pm$ 928.749  $\chi^2$ /NDF: 13.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2462.443 $\pm$ 0.990  $\chi^2$ /NDF: 471940.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2453.383 $\pm$ 0.877  $\chi^2$ /NDF: 128594.3/9

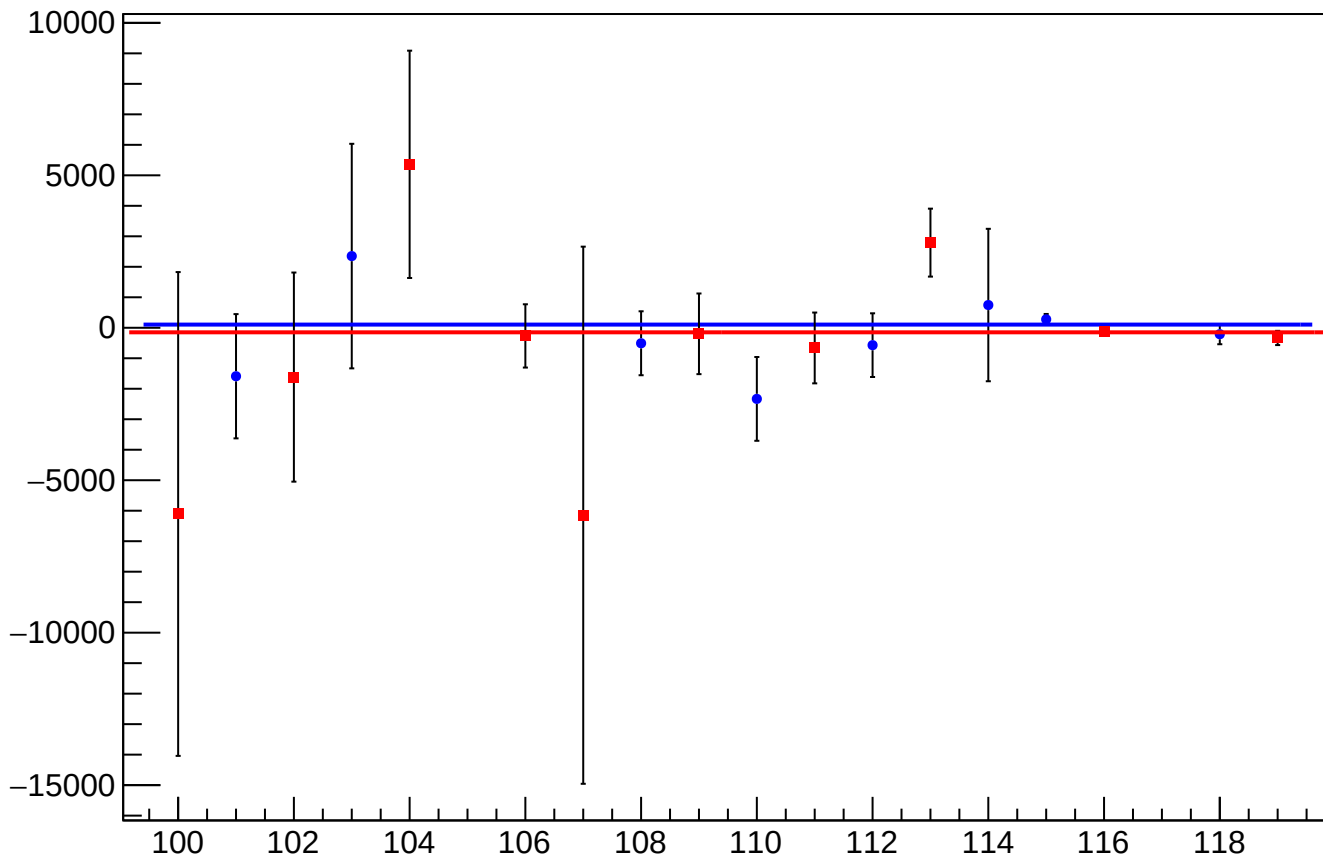
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2457.366 $\pm$ 0.657  $\chi^2$ /NDF: 600581.3/17

- 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: 104.381+/-150.583  $\chi^2/\text{NDF}$ : 6.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -149.176+/-111.905  $\chi^2/\text{NDF}$ : 11.2/9

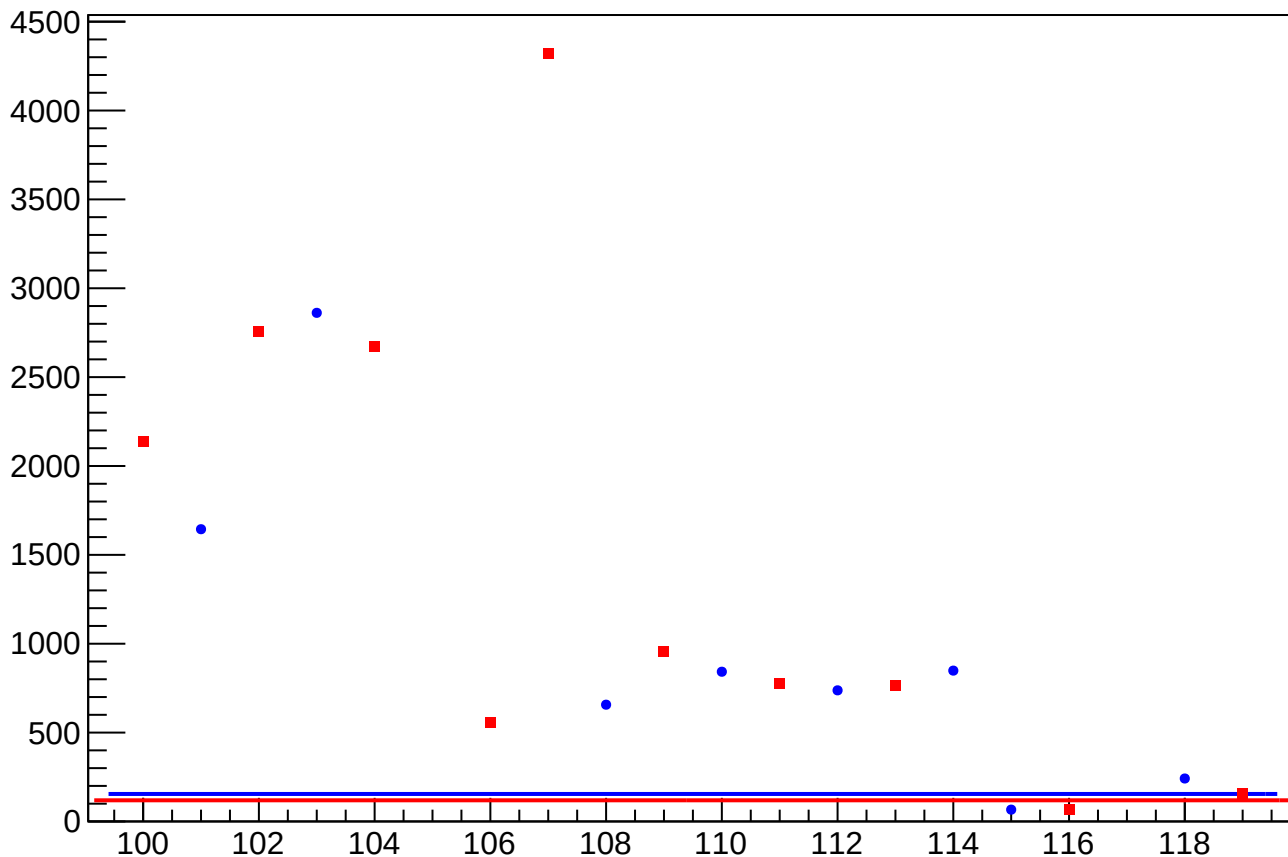
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -58.965+/-89.819  $\chi^2/\text{NDF}$ : 20.0/17

- 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: 154.683+/-0.106  $\chi^2/\text{NDF}$ : 4525300.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 118.999+/-0.079  $\chi^2/\text{NDF}$ : 5554016.4/9

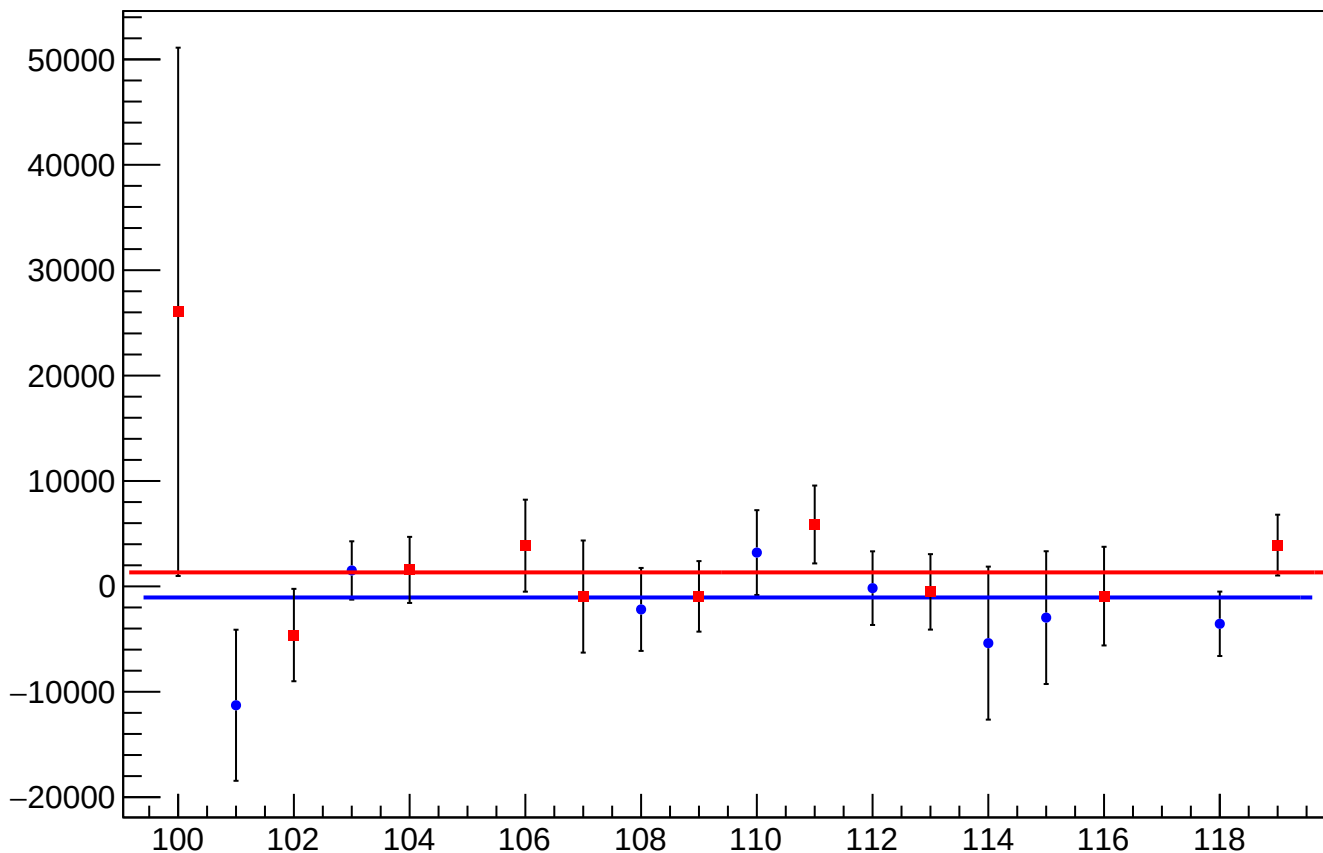
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 131.694+/-0.064  $\chi^2/\text{NDF}$ : 10151669.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: -1051.513 $\pm$ 1400.759  $\chi^2$ /NDF: 5.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1327.956 $\pm$ 1240.663  $\chi^2$ /NDF: 6.6/9

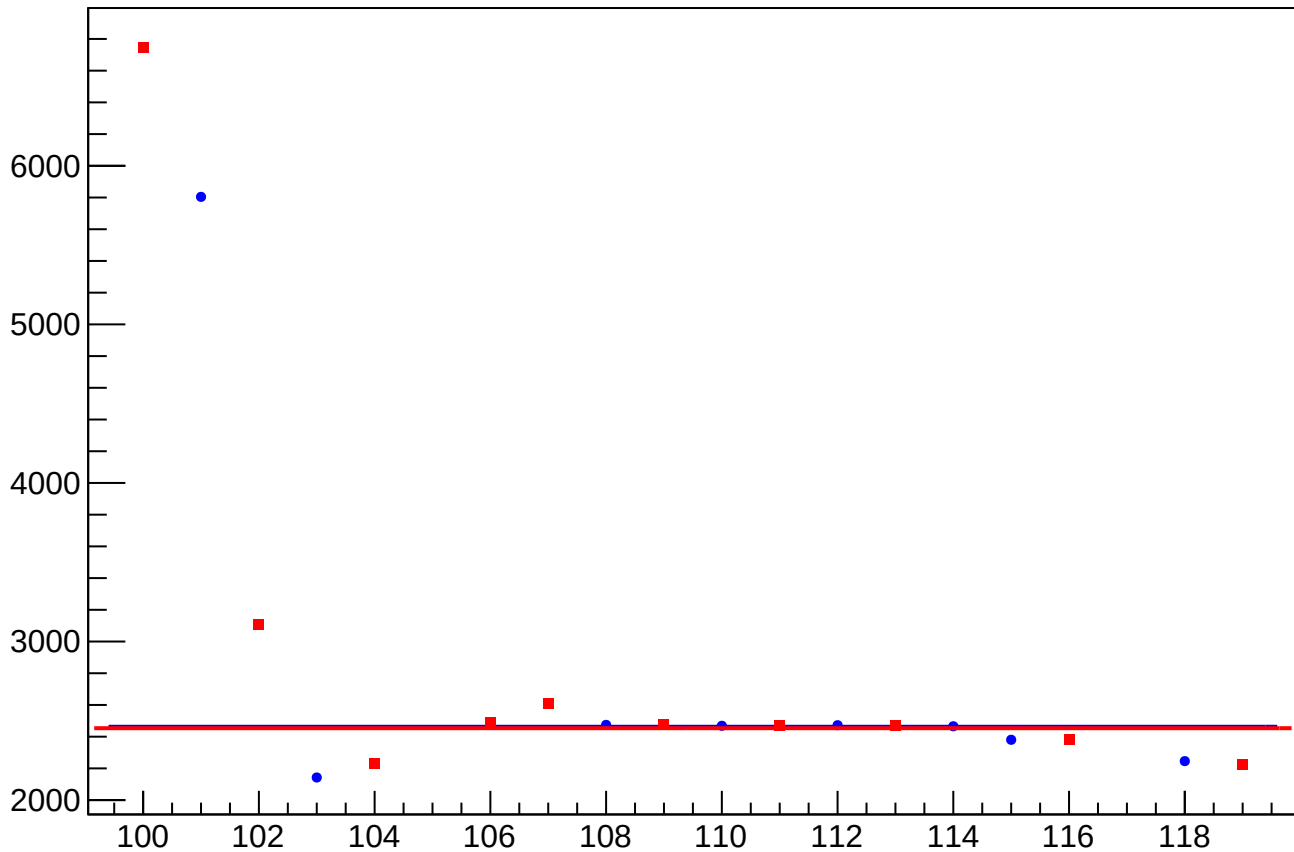
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 281.912 $\pm$ 928.749  $\chi^2$ /NDF: 13.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2462.443+/-0.990  $\chi^2/\text{NDF}$ : 471940.2/7

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

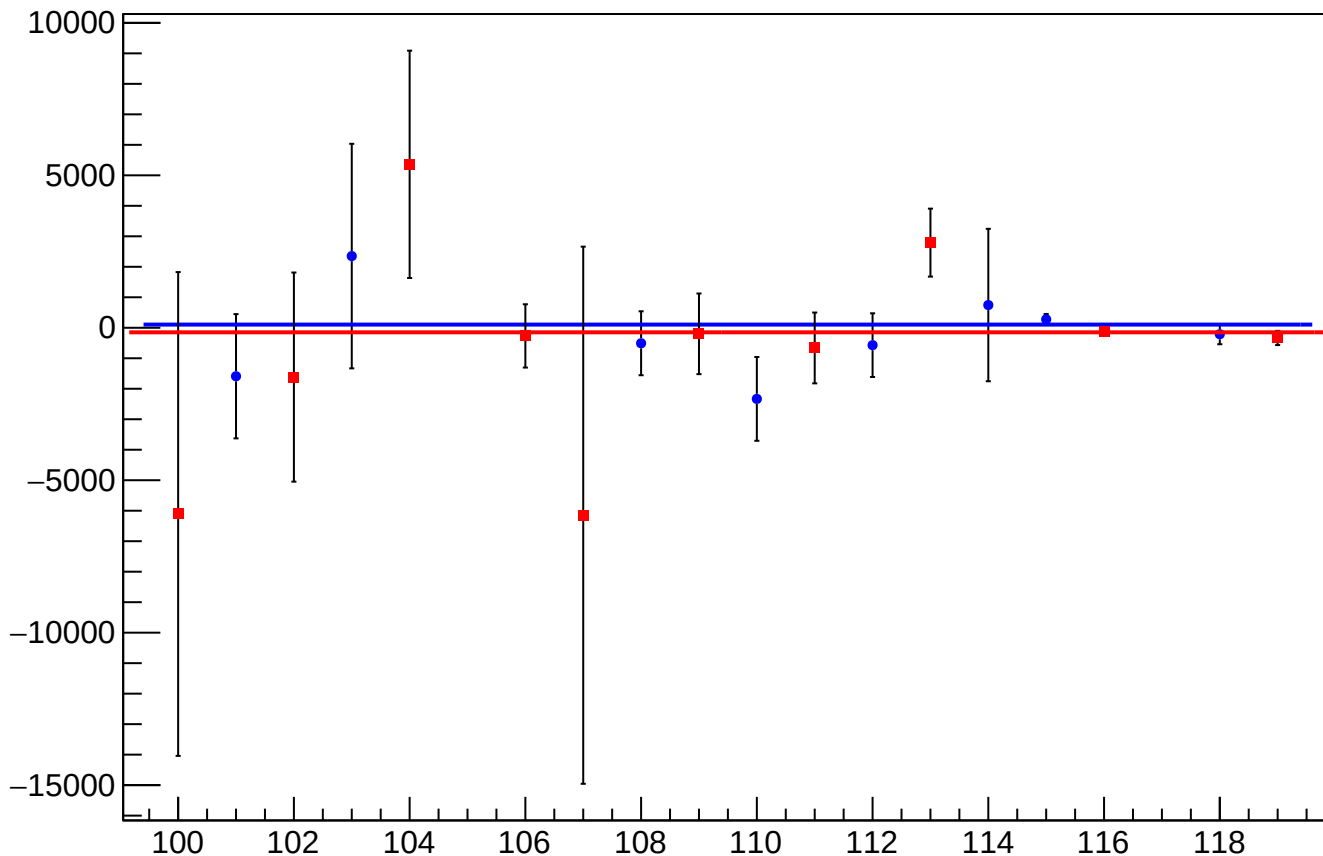
Right Out: 2453.383+/-0.877  $\chi^2/\text{NDF}$ : 128594.2/9

All: 2457.366+/-0.657  $\chi^2/\text{NDF}$ : 600581.3/17

- 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\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 104.380 $\pm$ 150.580  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -149.175 $\pm$ 111.903  $\chi^2$ /NDF: 11.2/9

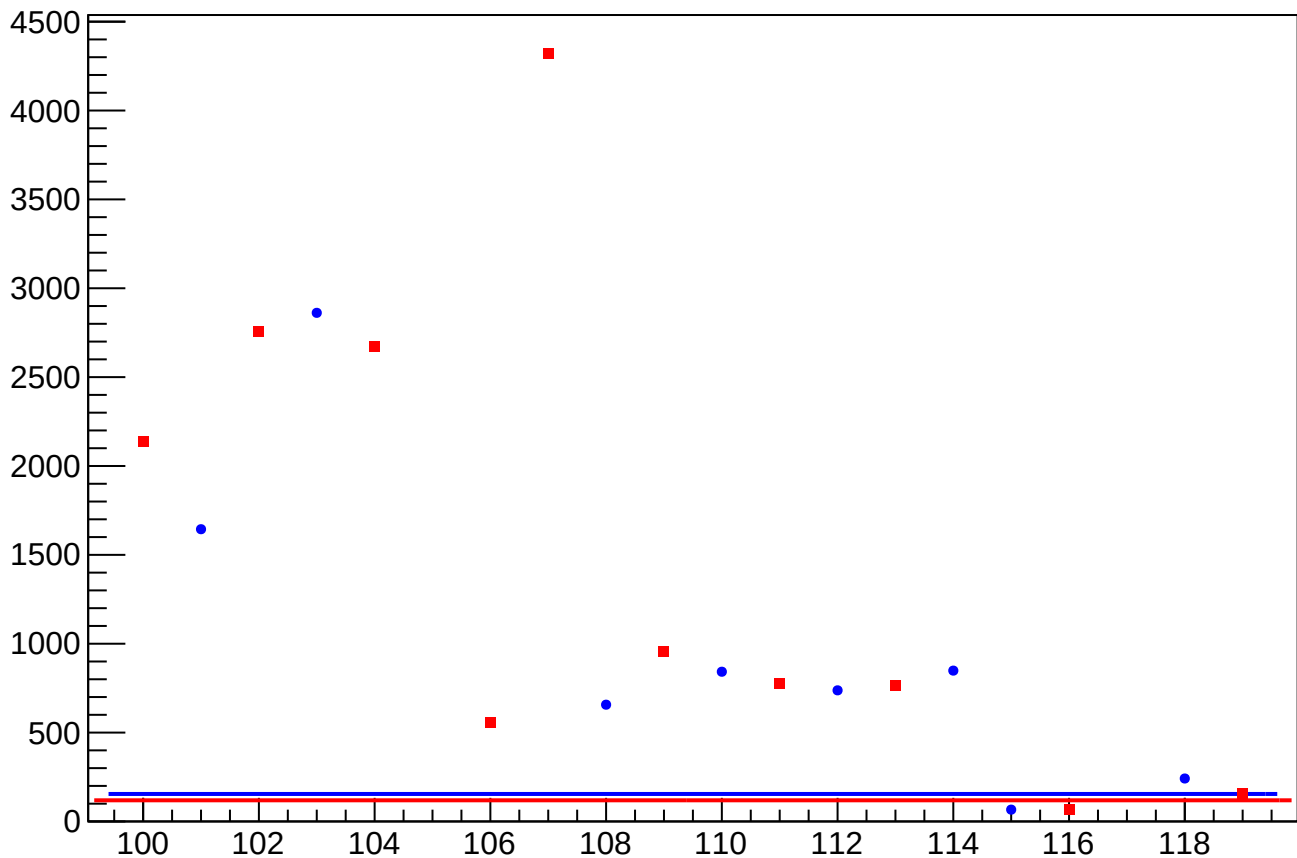
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -58.965 $\pm$ 89.817  $\chi^2$ /NDF: 20.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 154.678+/-0.106  $\chi^2/\text{NDF}$ : 4525338.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 118.996+/-0.079  $\chi^2/\text{NDF}$ : 5554049.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

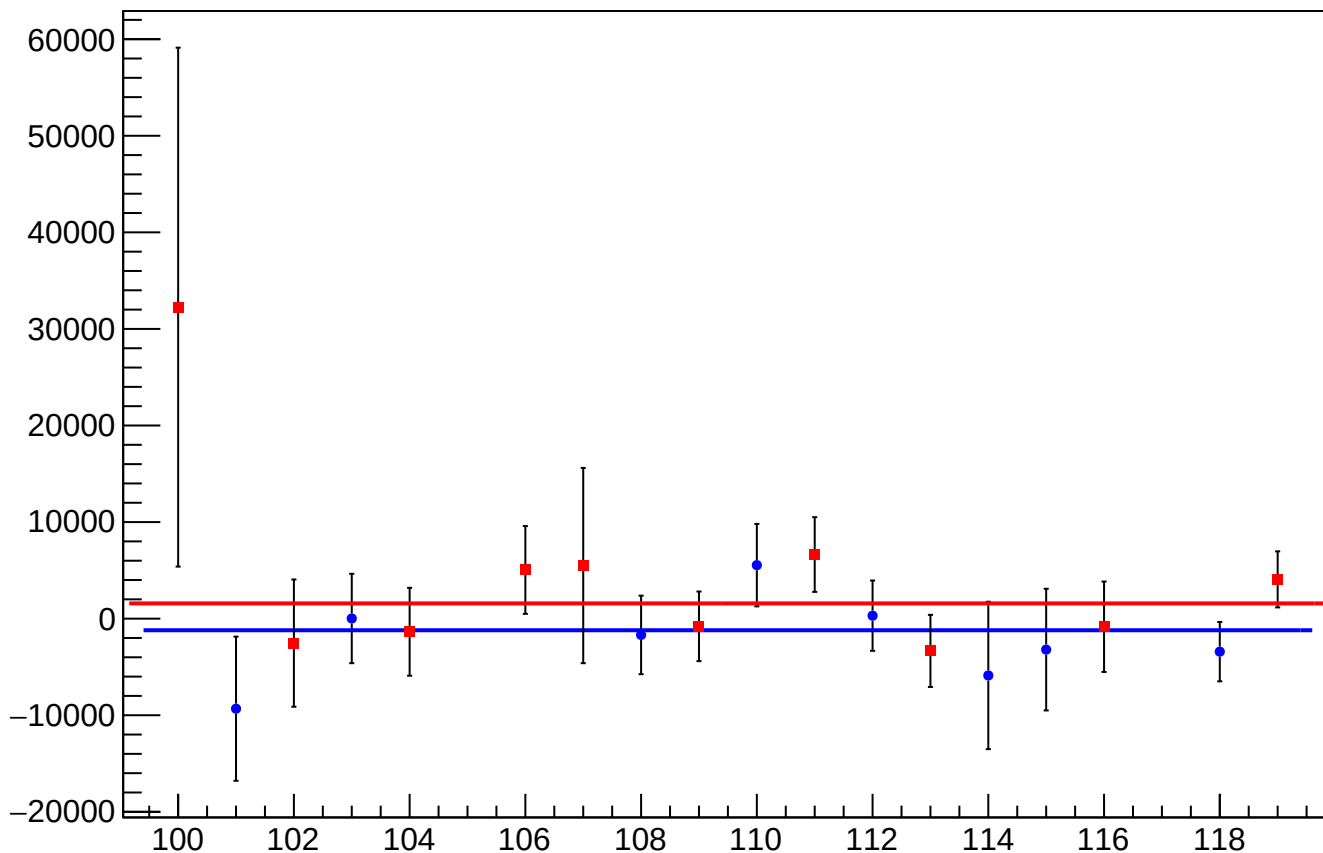
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 131.691+/-0.064  $\chi^2/\text{NDF}$ : 10151735.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In:  $-1200.648 \pm 1573.749$   $\chi^2/\text{NDF}$ : 4.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1578.561 \pm 1399.139$   $\chi^2/\text{NDF}$ : 7.7/9

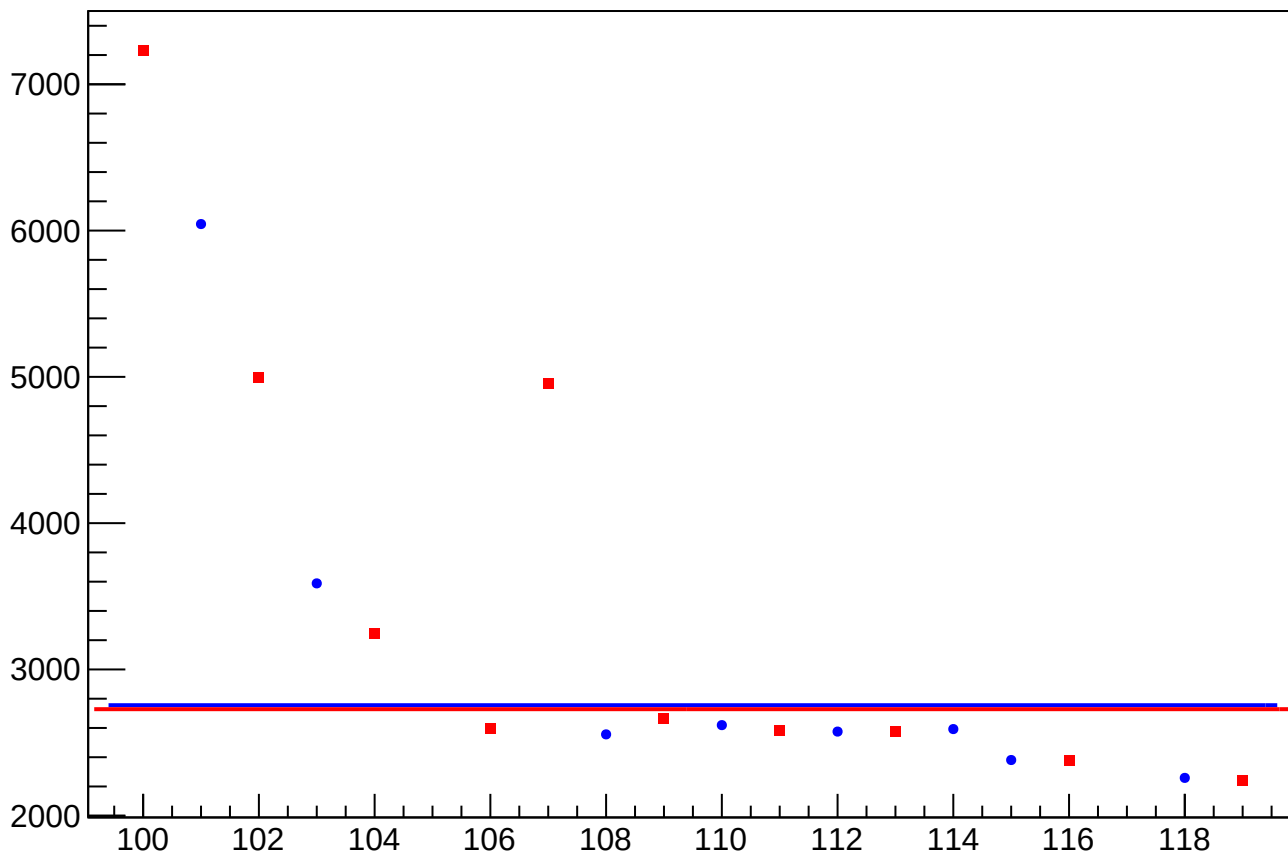
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $351.630 \pm 1045.647$   $\chi^2/\text{NDF}$ : 14.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2755.528+/-1.113  $\chi^2/\text{NDF}$ : 525295.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2728.380+/-0.989  $\chi^2/\text{NDF}$ : 492684.9/9

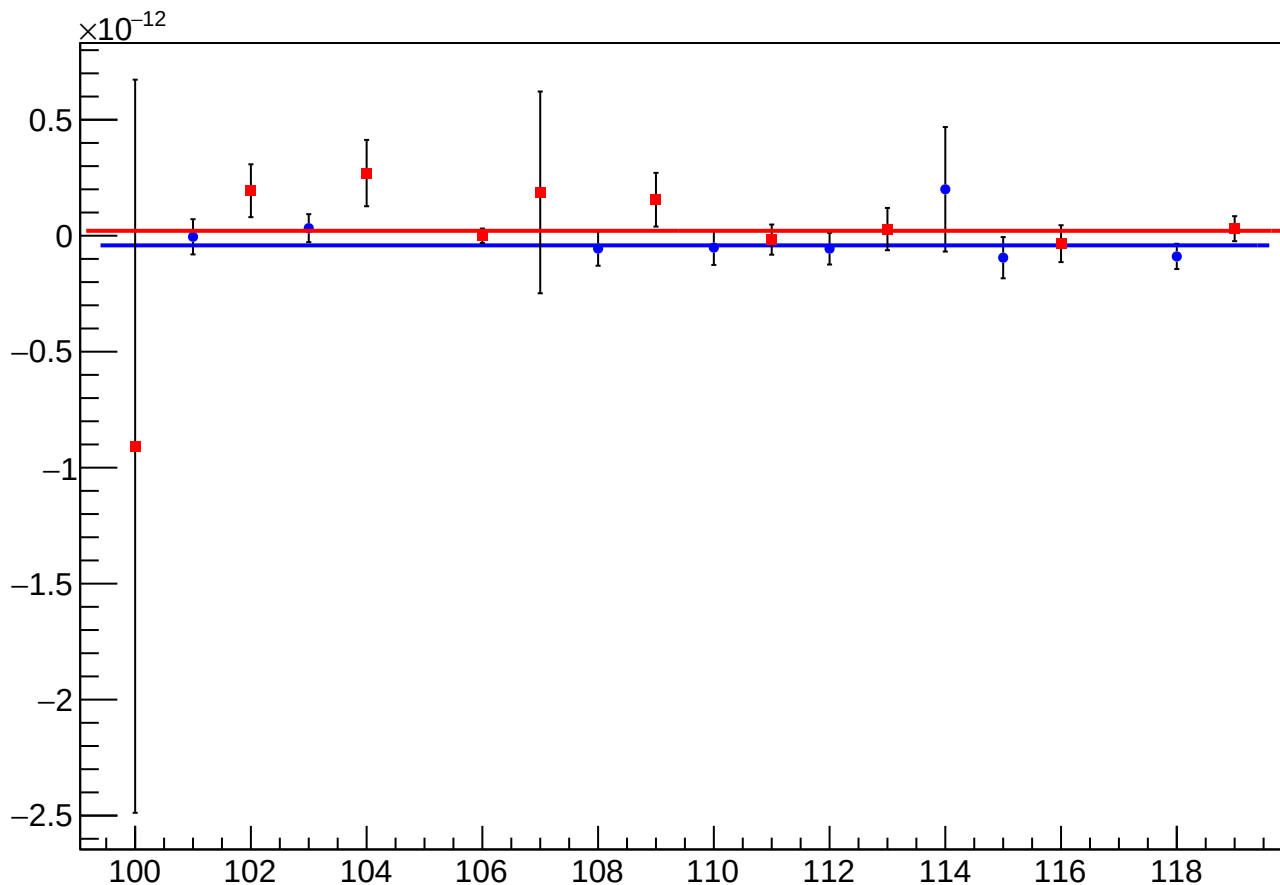
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2740.365+/-0.739  $\chi^2/\text{NDF}$ : 1018312.8/17

- 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  $\chi^2/\text{NDF}$ : 3.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.5/9

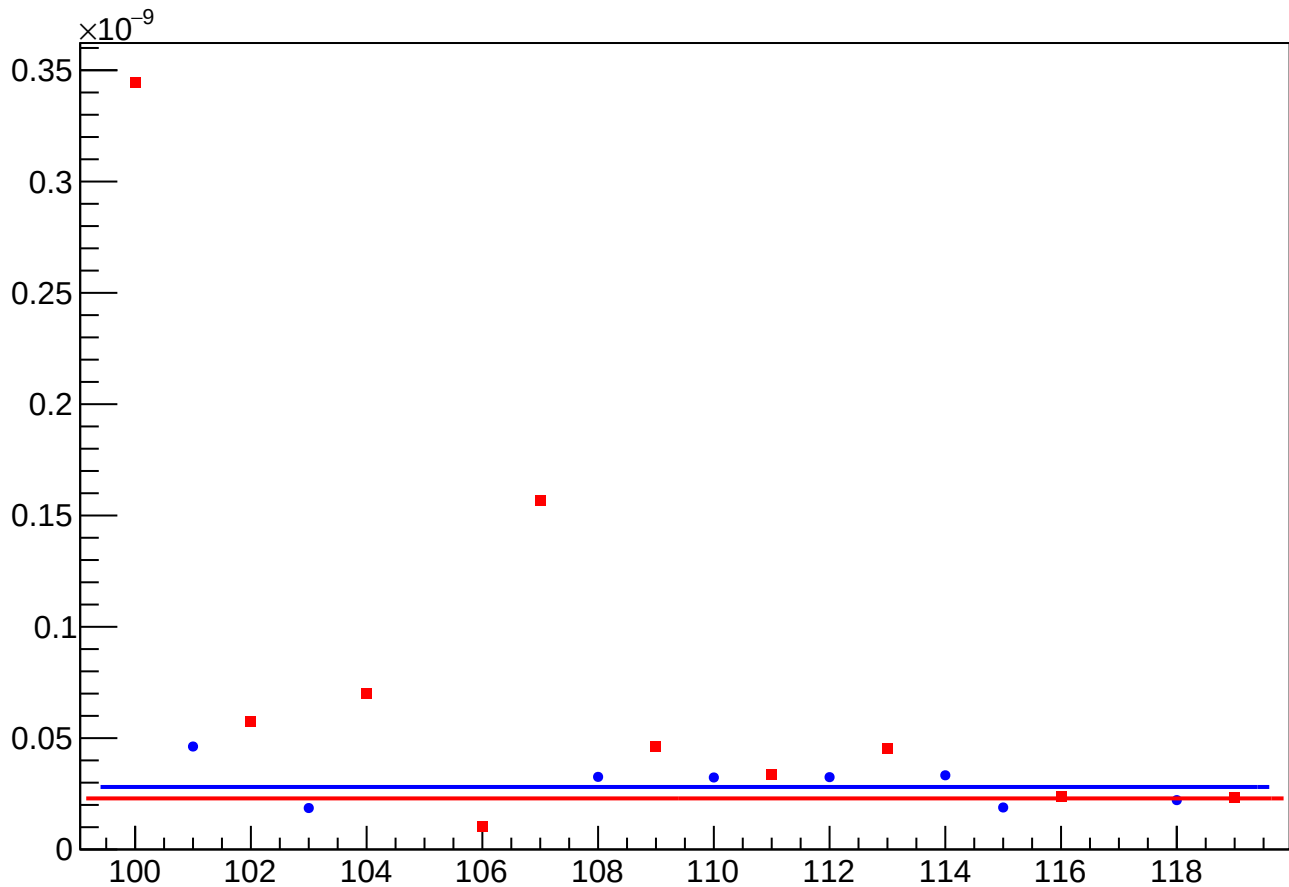
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 232061.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1252227.9/9

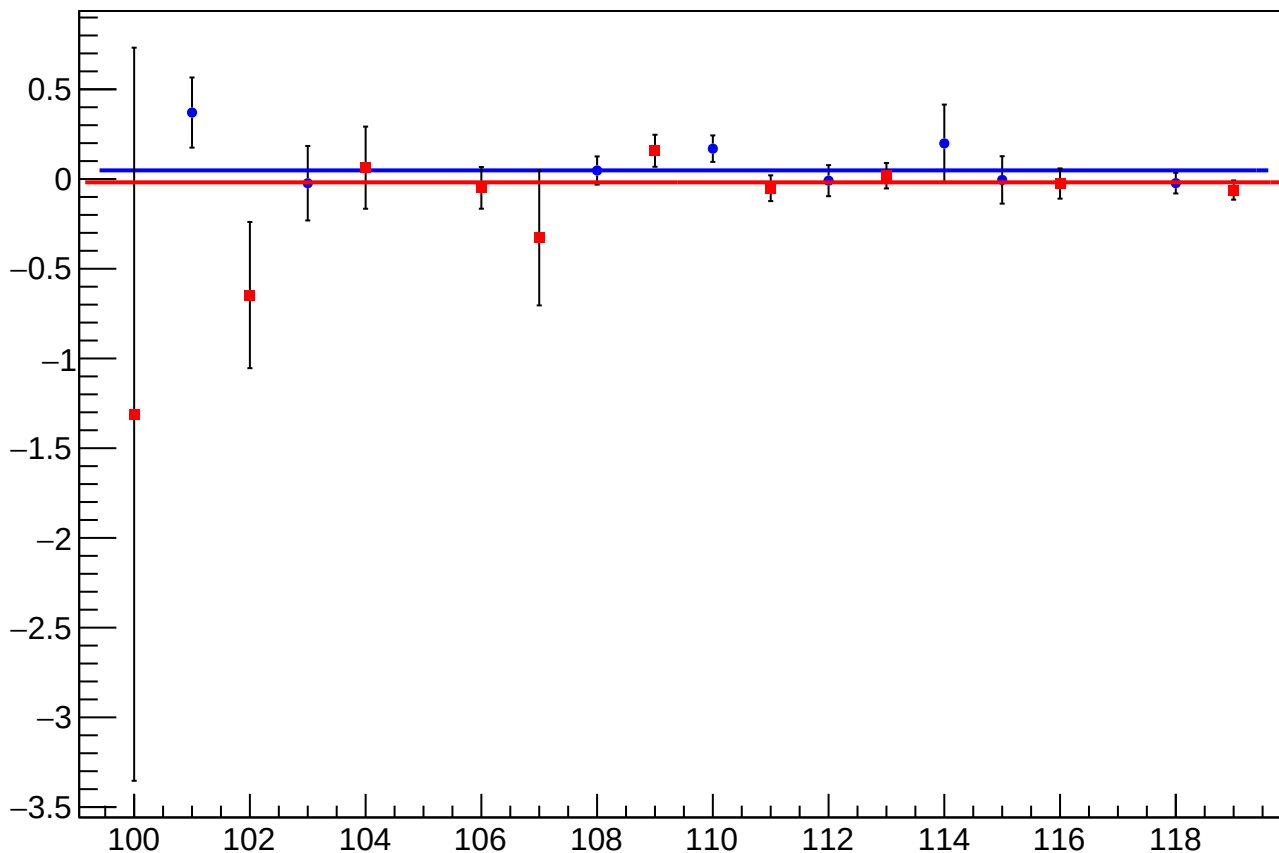
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1530480.8/17

- 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: 0.048 $\pm$ 0.033  $\chi^2$ /NDF: 8.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.018 $\pm$ 0.030  $\chi^2$ /NDF: 8.7/9

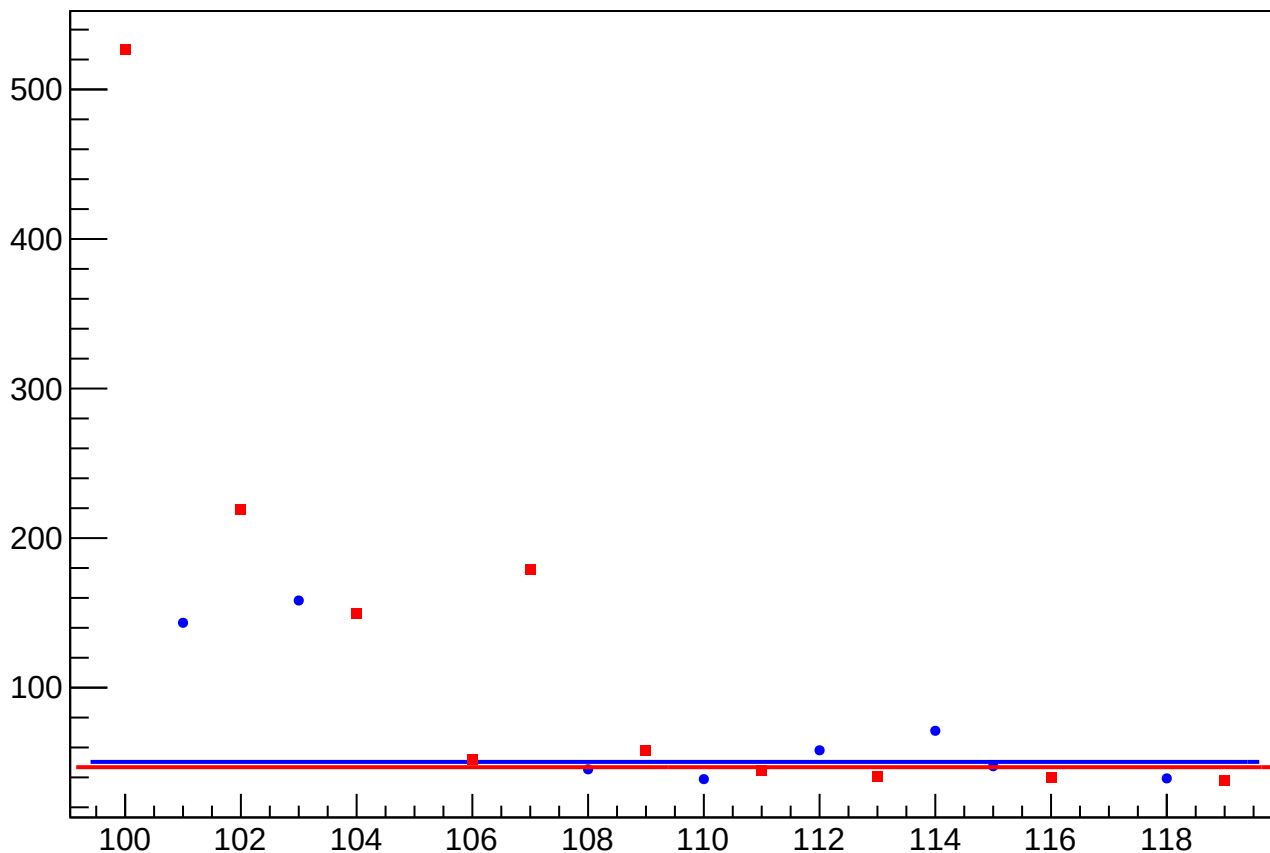
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.012 $\pm$ 0.022  $\chi^2$ /NDF: 19.0/17

- 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: 50.356+/-0.023  $\chi^2/\text{NDF}$ : 1159076.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.822+/-0.021  $\chi^2/\text{NDF}$ : 1240661.4/9

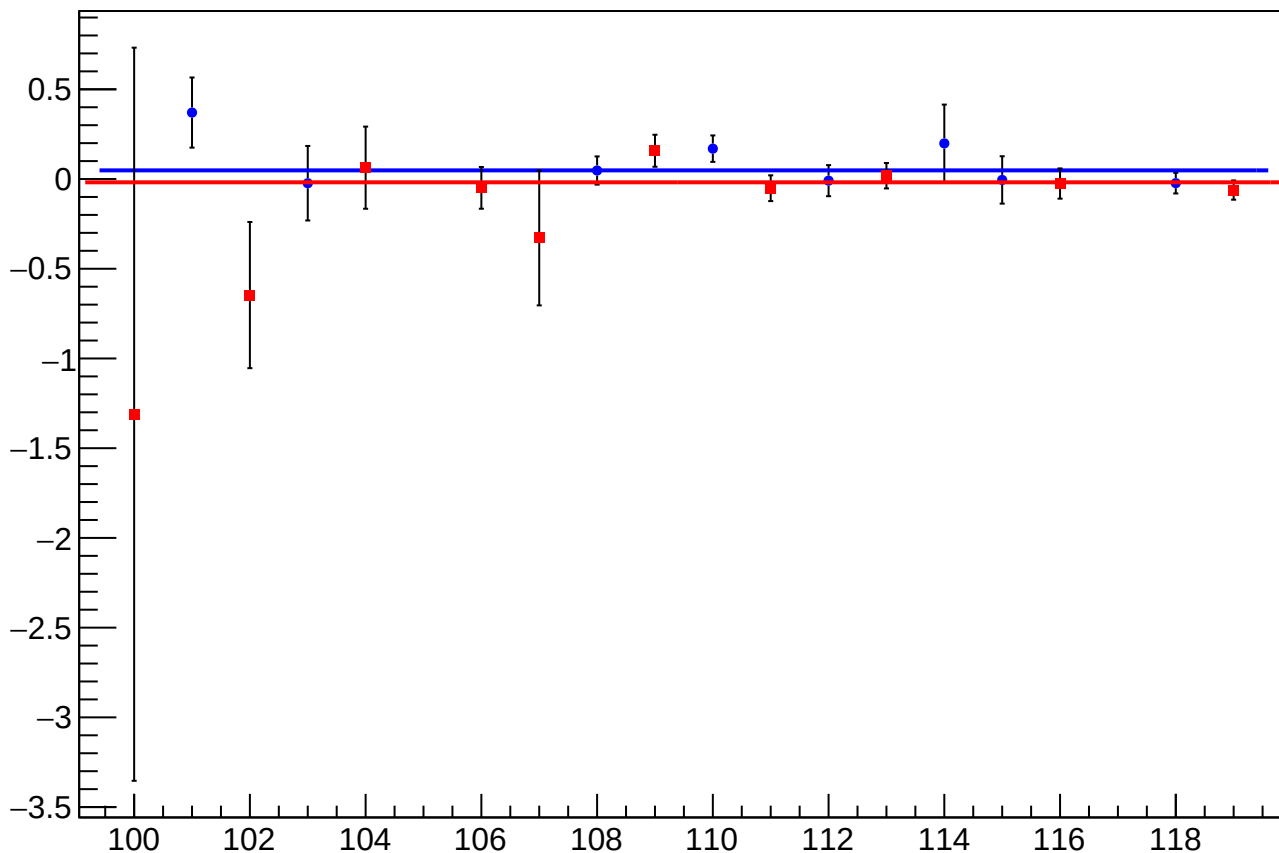
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.410+/-0.016  $\chi^2/\text{NDF}$ : 2412244.6/17

- 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: 0.048 $\pm$ 0.033  $\chi^2$ /NDF: 8.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.018 $\pm$ 0.030  $\chi^2$ /NDF: 8.7/9

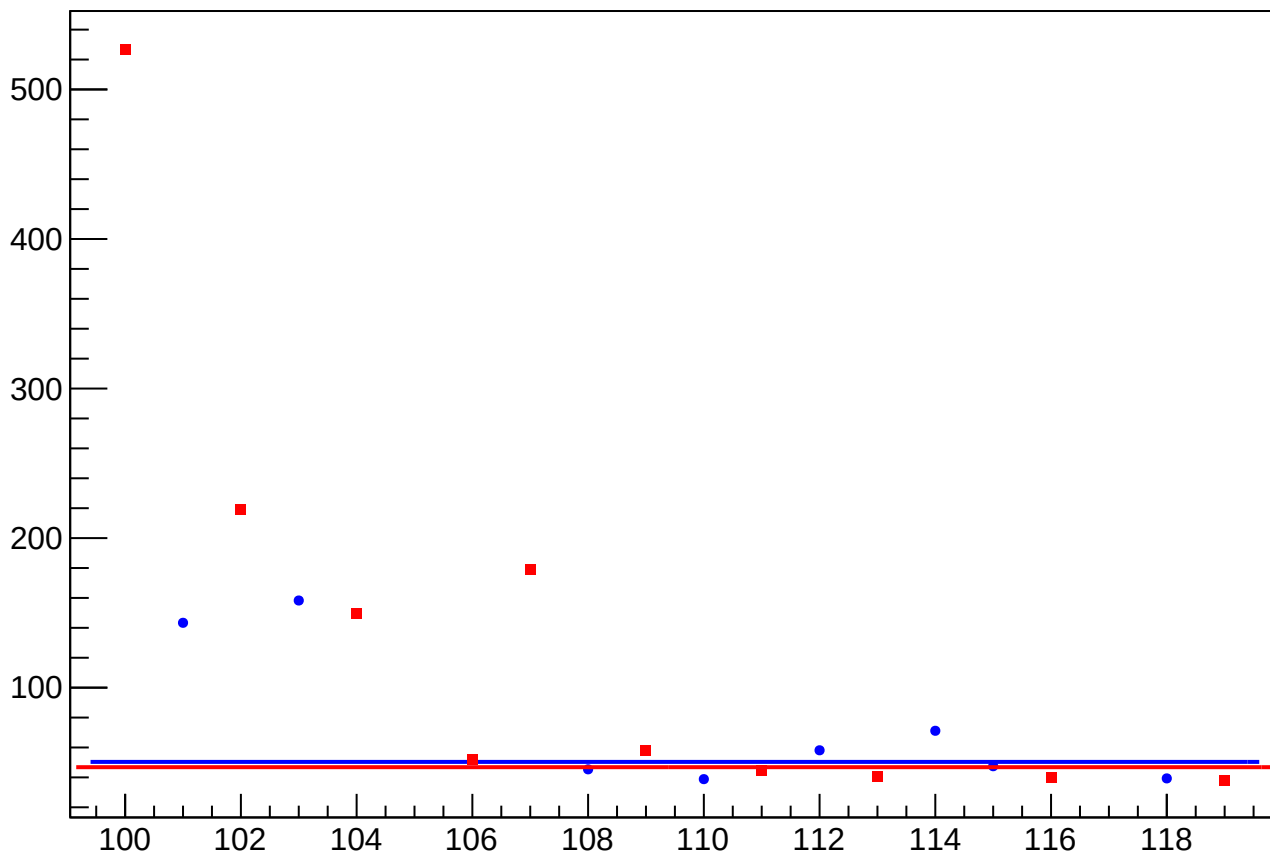
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.012 $\pm$ 0.022  $\chi^2$ /NDF: 19.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 50.356+/-0.023  $\chi^2/\text{NDF}$ : 1159076.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.822+/-0.021  $\chi^2/\text{NDF}$ : 1240661.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

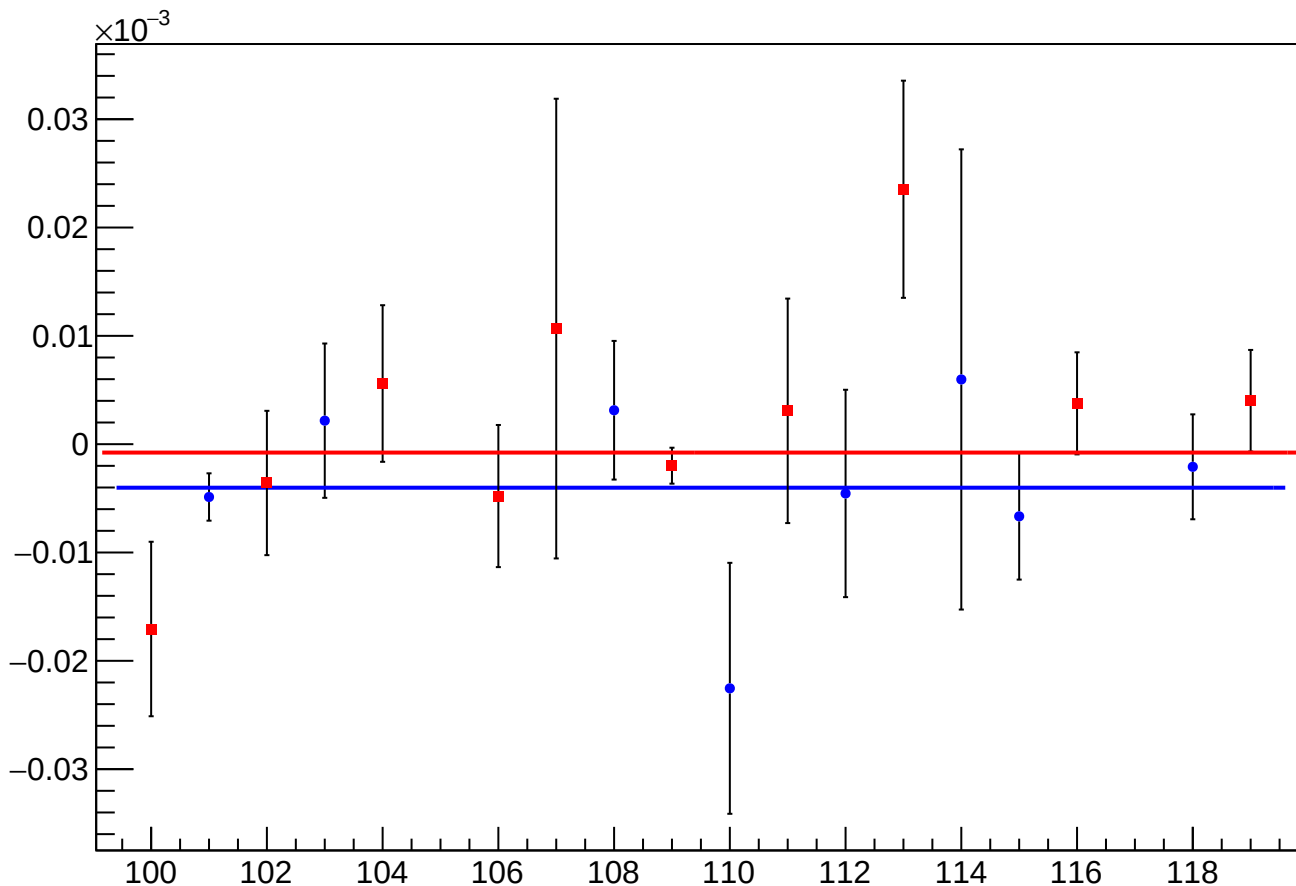
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.410+/-0.016  $\chi^2/\text{NDF}$ : 2412244.6/17

- 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: 5.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.2/9

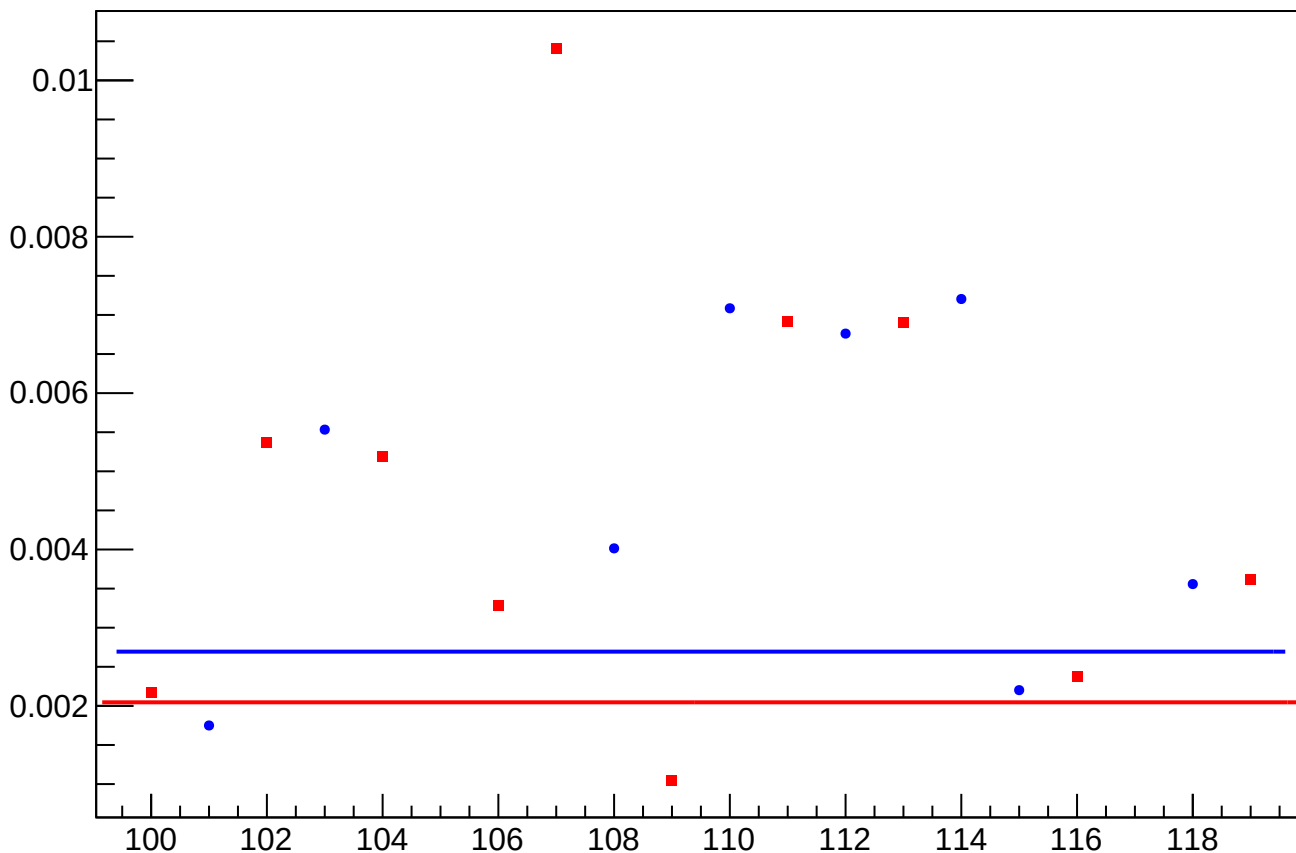
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 21.8/17

- 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  $\chi^2/\text{NDF}$ : 1593128.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3134868.7/9

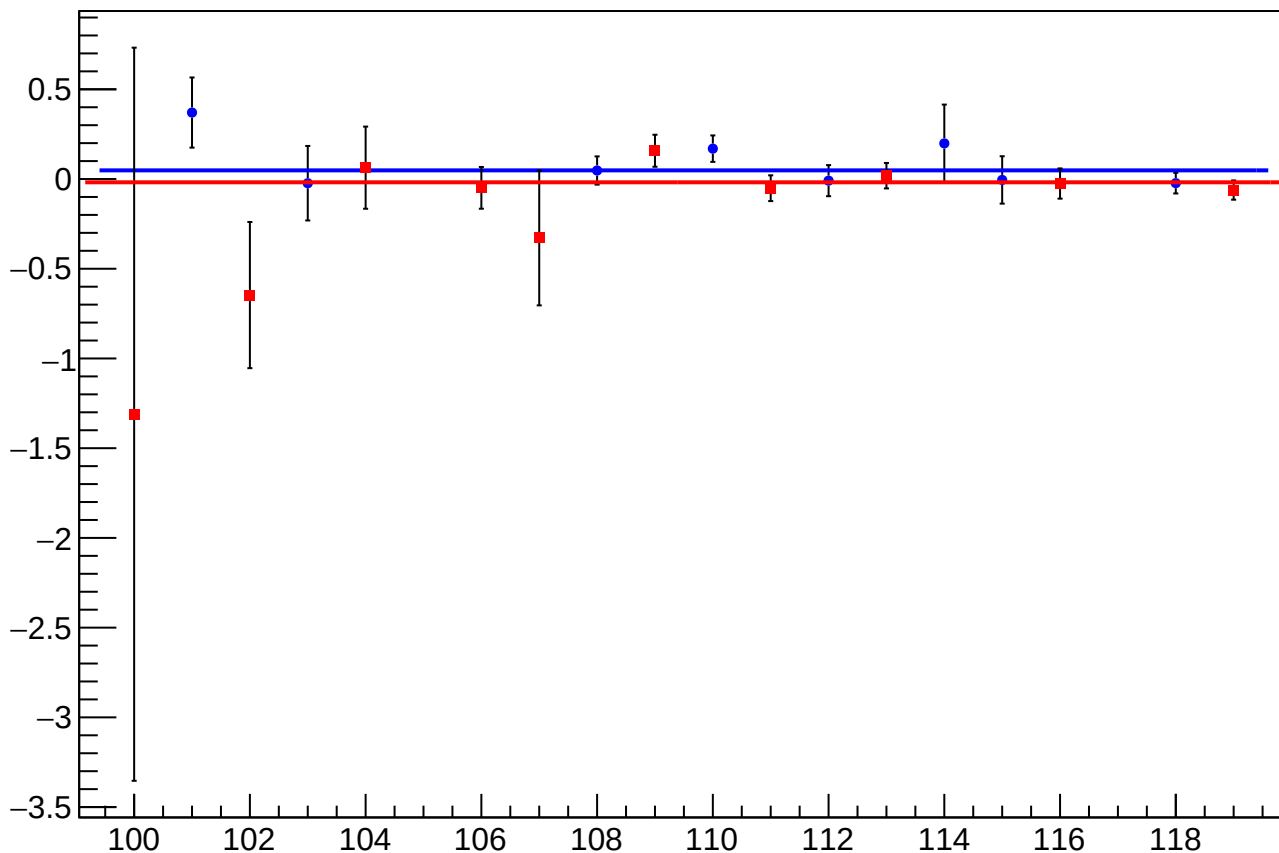
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4907133.1/17

- 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: 0.048 $\pm$ 0.033  $\chi^2$ /NDF: 8.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.018 $\pm$ 0.030  $\chi^2$ /NDF: 8.7/9

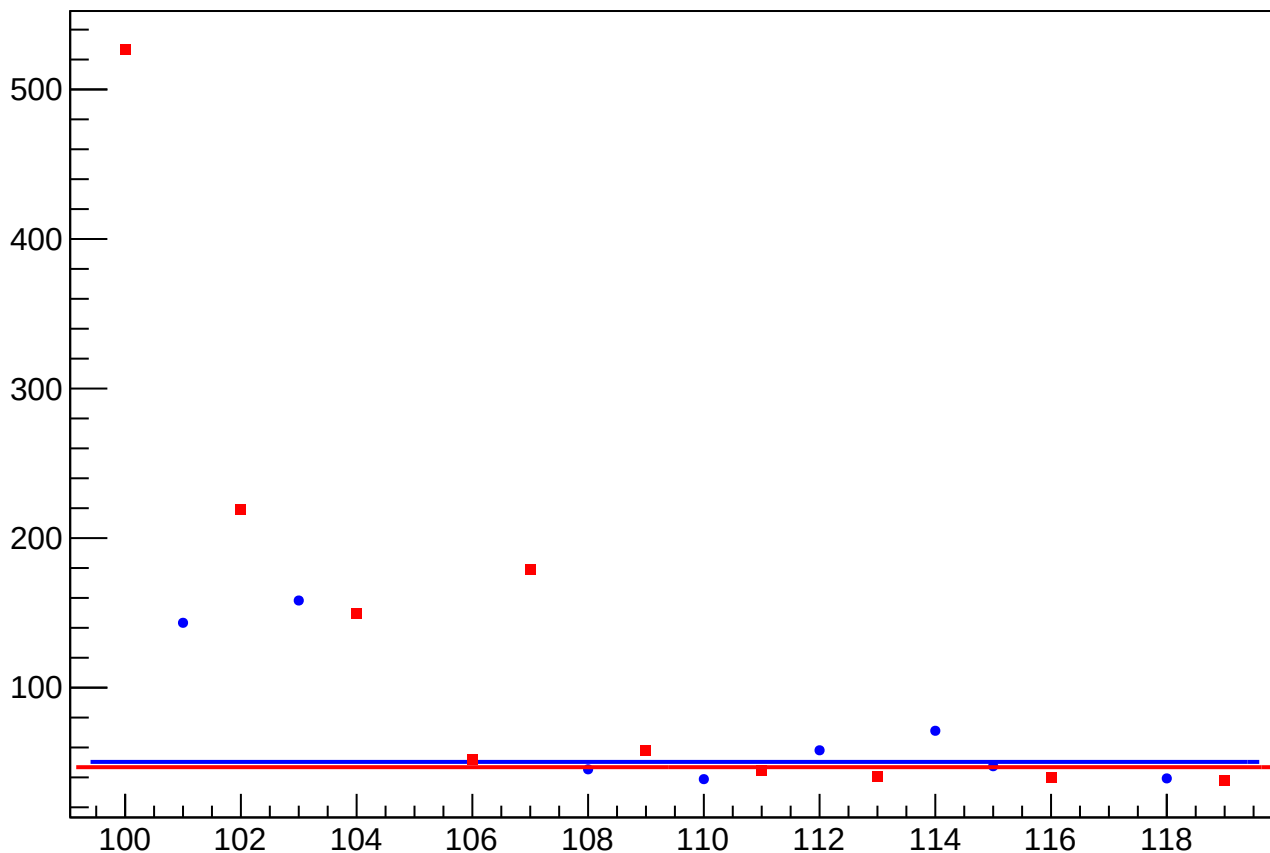
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.012 $\pm$ 0.022  $\chi^2$ /NDF: 19.0/17

- 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: 50.355+/-0.023  $\chi^2/\text{NDF}$ : 1159114.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.824+/-0.021  $\chi^2/\text{NDF}$ : 1240599.6/9

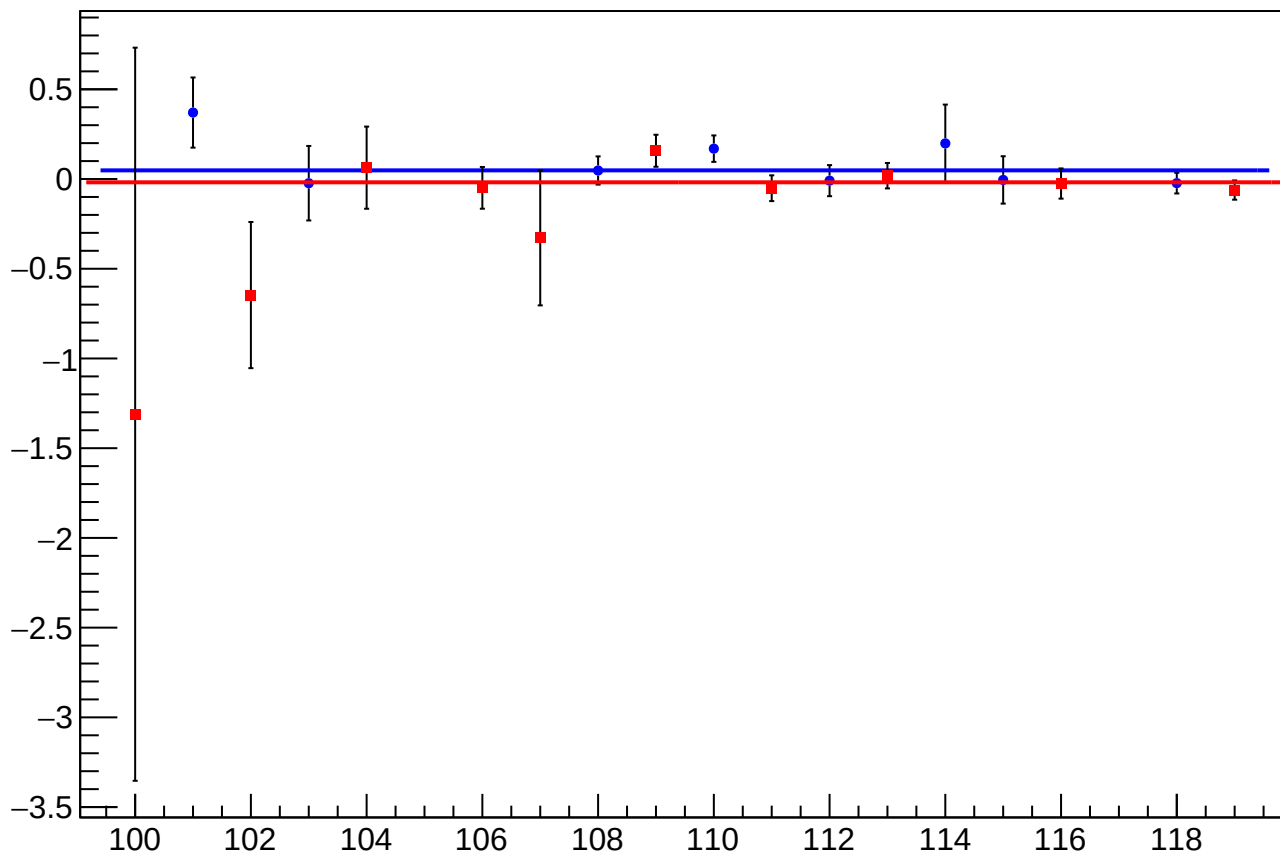
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.411+/-0.016  $\chi^2/\text{NDF}$ : 2412203.5/17

- 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: 0.048 $\pm$ 0.033  $\chi^2$ /NDF: 8.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.018 $\pm$ 0.030  $\chi^2$ /NDF: 8.7/9

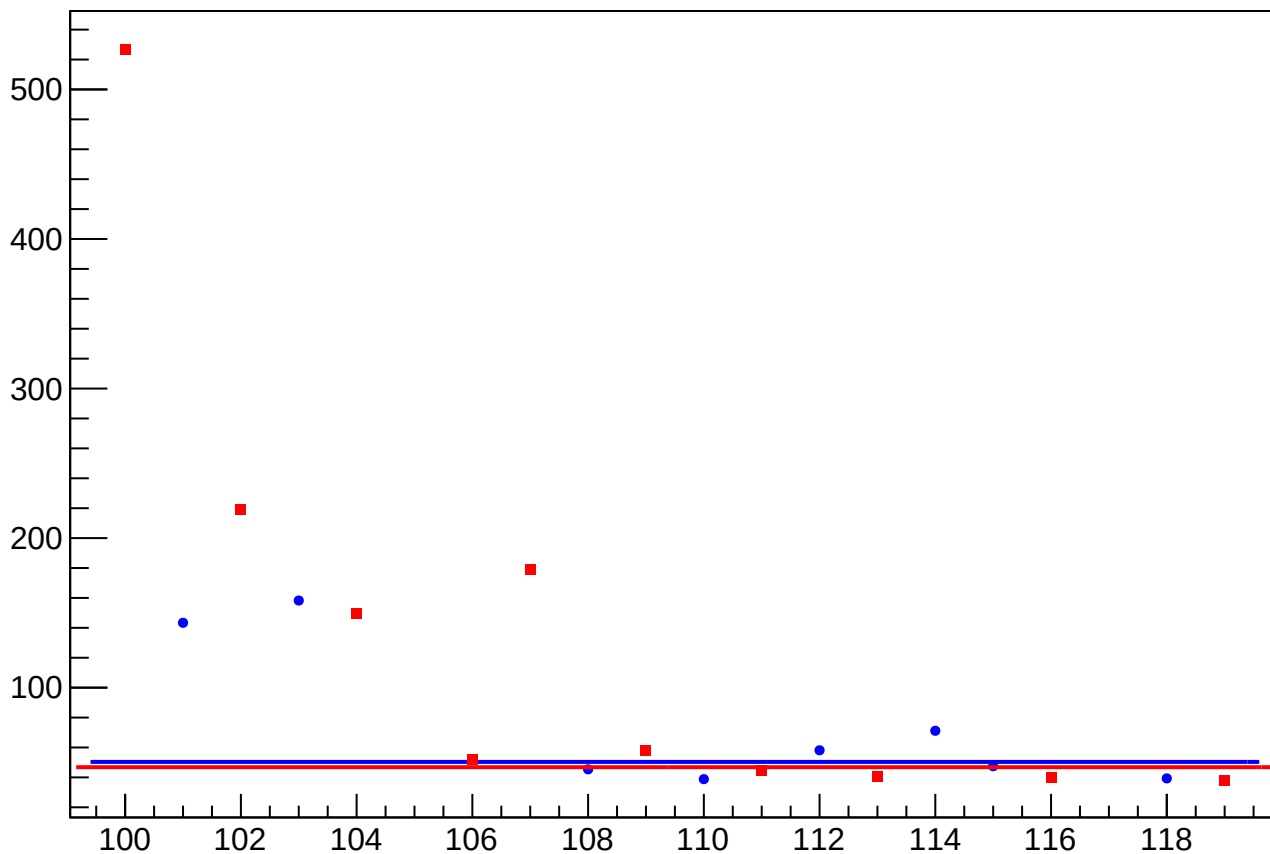
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.012 $\pm$ 0.022  $\chi^2$ /NDF: 19.0/17

- 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: 50.355+/-0.023  $\chi^2/\text{NDF}$ : 1159114.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.824+/-0.021  $\chi^2/\text{NDF}$ : 1240599.6/9

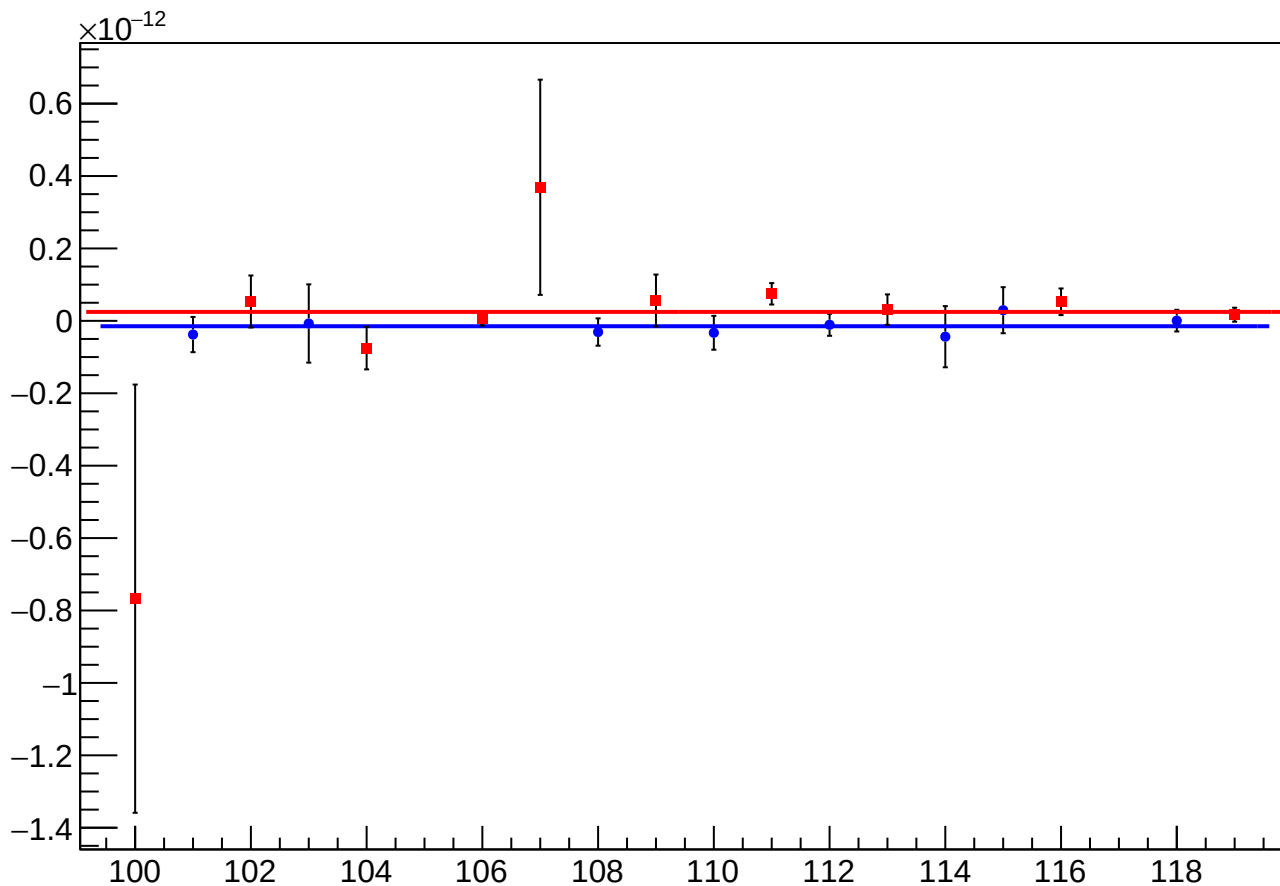
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.411+/-0.016  $\chi^2/\text{NDF}$ : 2412203.5/17

- 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: 1.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.8/9

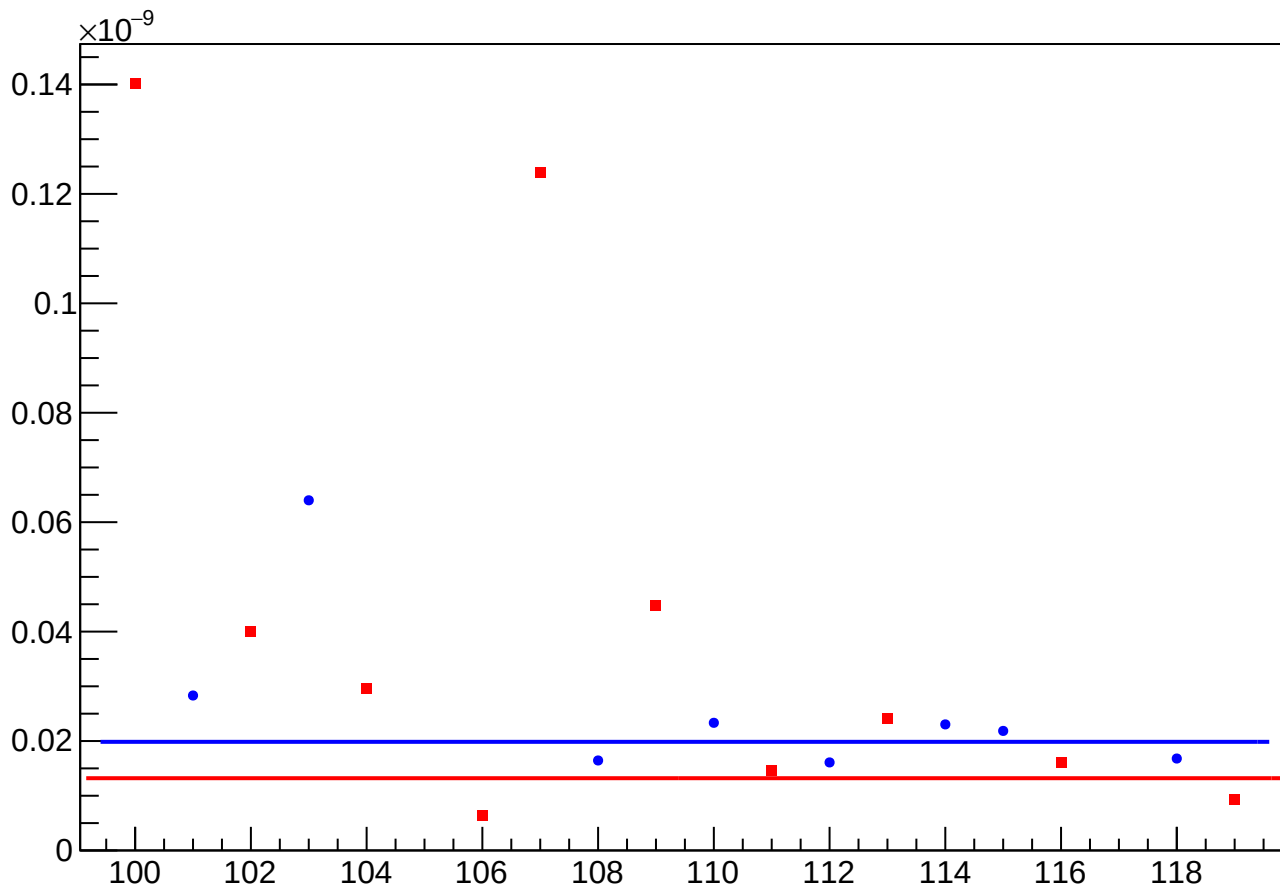
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.6/17

- 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  $\chi^2/\text{NDF}$ : 477418.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1659769.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

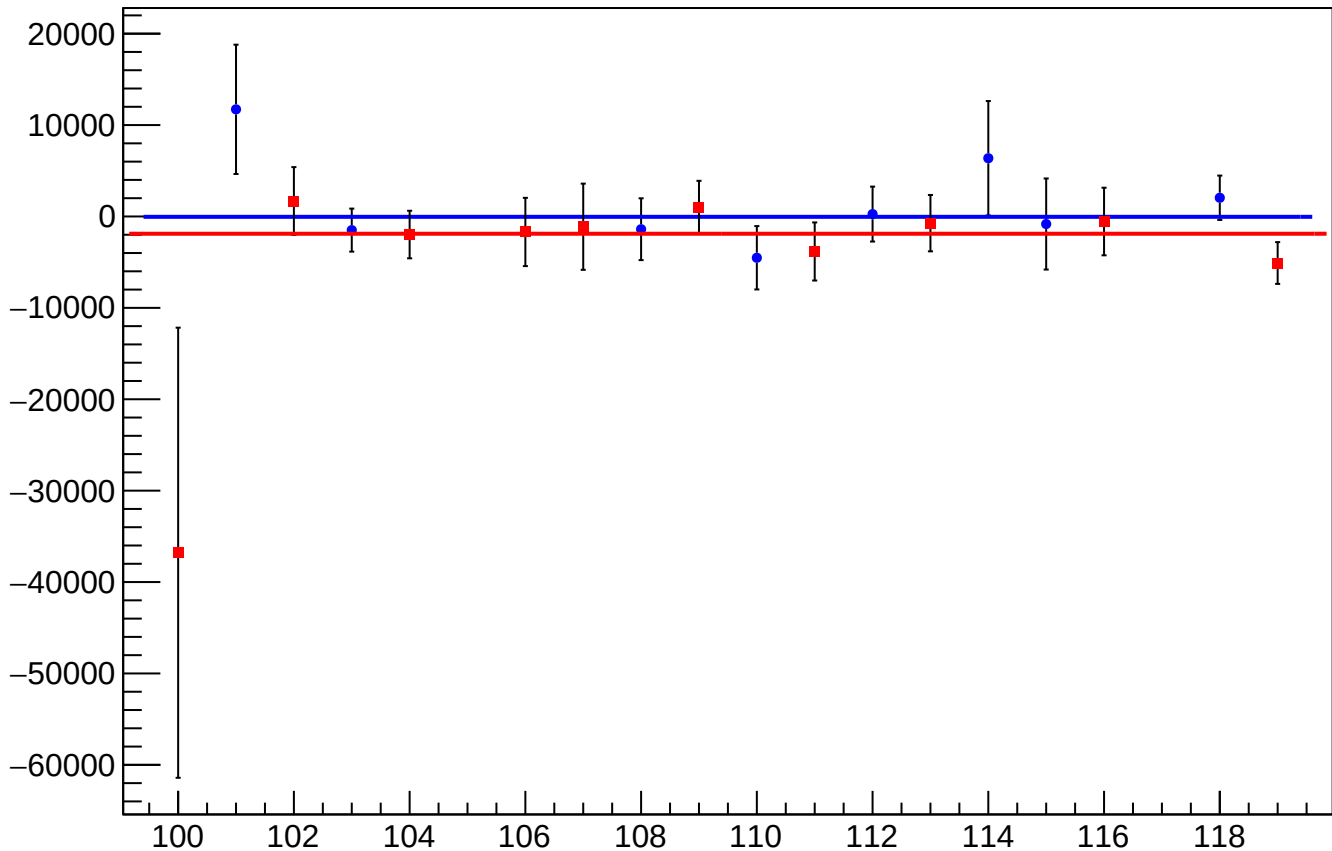
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2386486.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In:  $-39.357 \pm 1180.702$   $\chi^2/\text{NDF}$ : 6.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1889.743 \pm 1038.301$   $\chi^2/\text{NDF}$ : 6.6/9

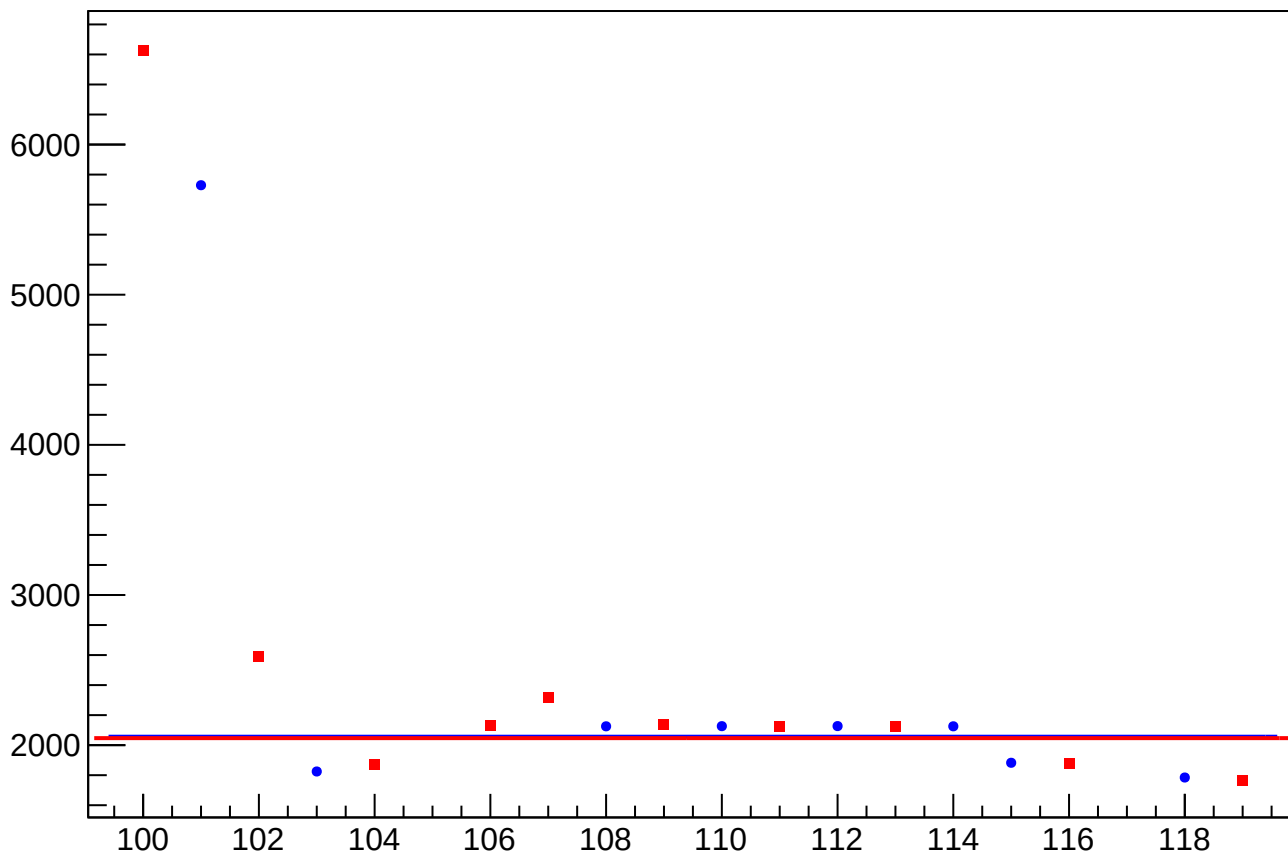
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1082.809 \pm 779.701$   $\chi^2/\text{NDF}$ : 14.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 2056.220+/-0.835  $\chi^2/\text{NDF}$ : 588880.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2046.752+/-0.734  $\chi^2/\text{NDF}$ : 168118.6/9

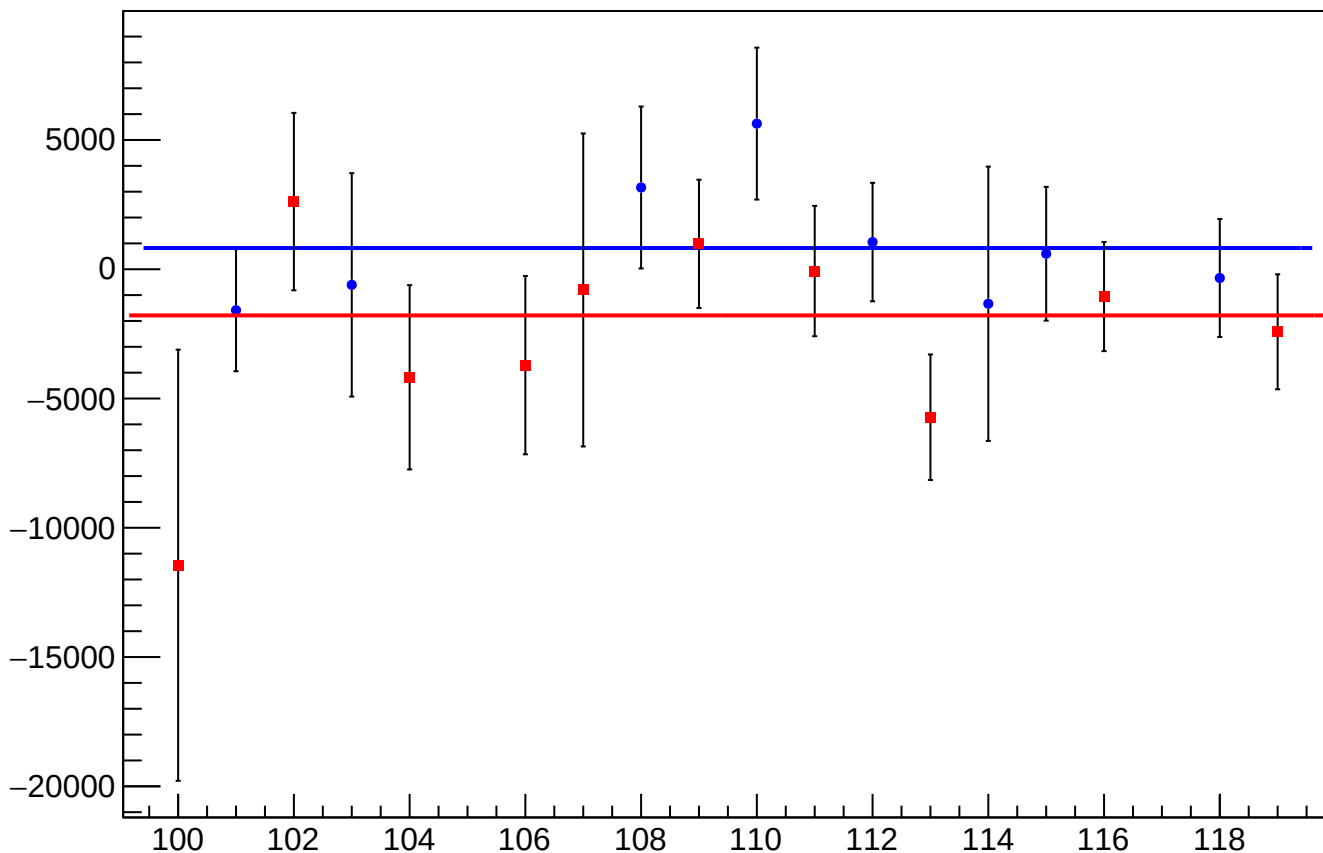
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2050.881+/-0.551  $\chi^2/\text{NDF}$ : 757071.7/17

- 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: 820.932 $\pm$ 990.811  $\chi^2$ /NDF: 4.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1786.007 $\pm$ 910.606  $\chi^2$ /NDF: 8.3/9

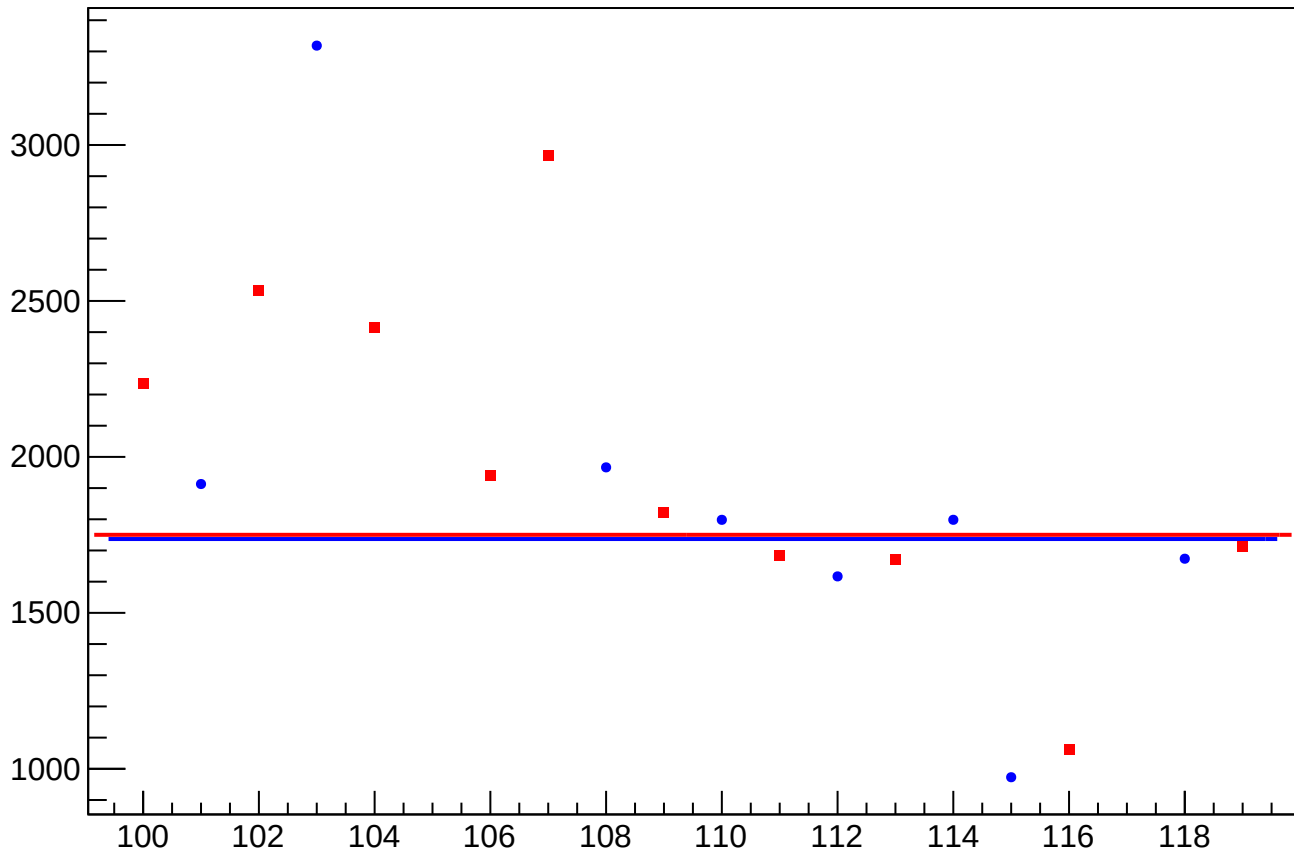
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -592.306 $\pm$ 670.460  $\chi^2$ /NDF: 16.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_reg\_correction\_rms vs Slug



Right In: 1736.690+/-0.701  $\chi^2/\text{NDF}$ : 472451.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1750.210+/-0.644  $\chi^2/\text{NDF}$ : 485913.4/9

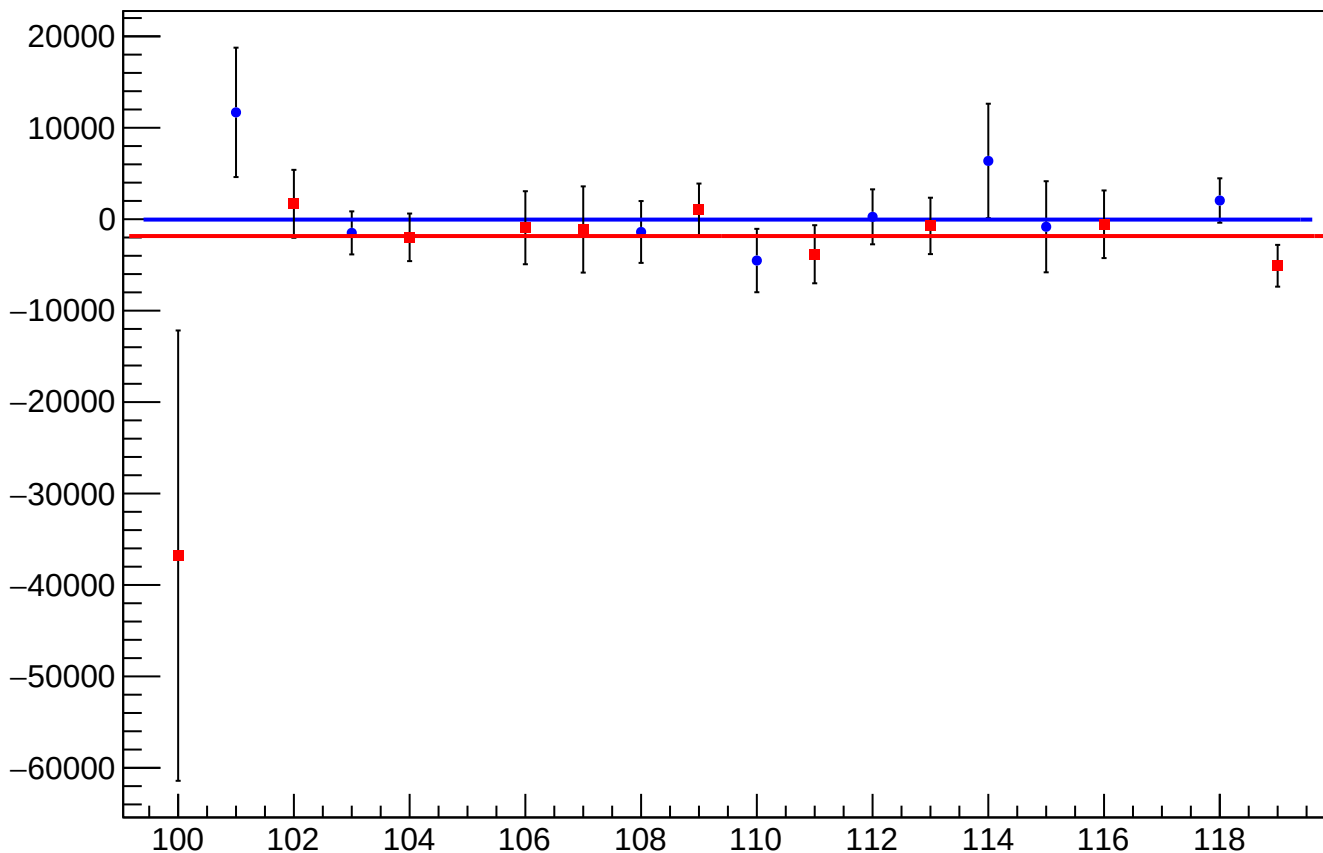
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1744.020+/-0.474  $\chi^2/\text{NDF}$ : 958566.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In:  $-41.122 \pm 1180.703$   $\chi^2/\text{NDF}$ : 6.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1840.629 \pm 1043.365$   $\chi^2/\text{NDF}$ : 6.6/9

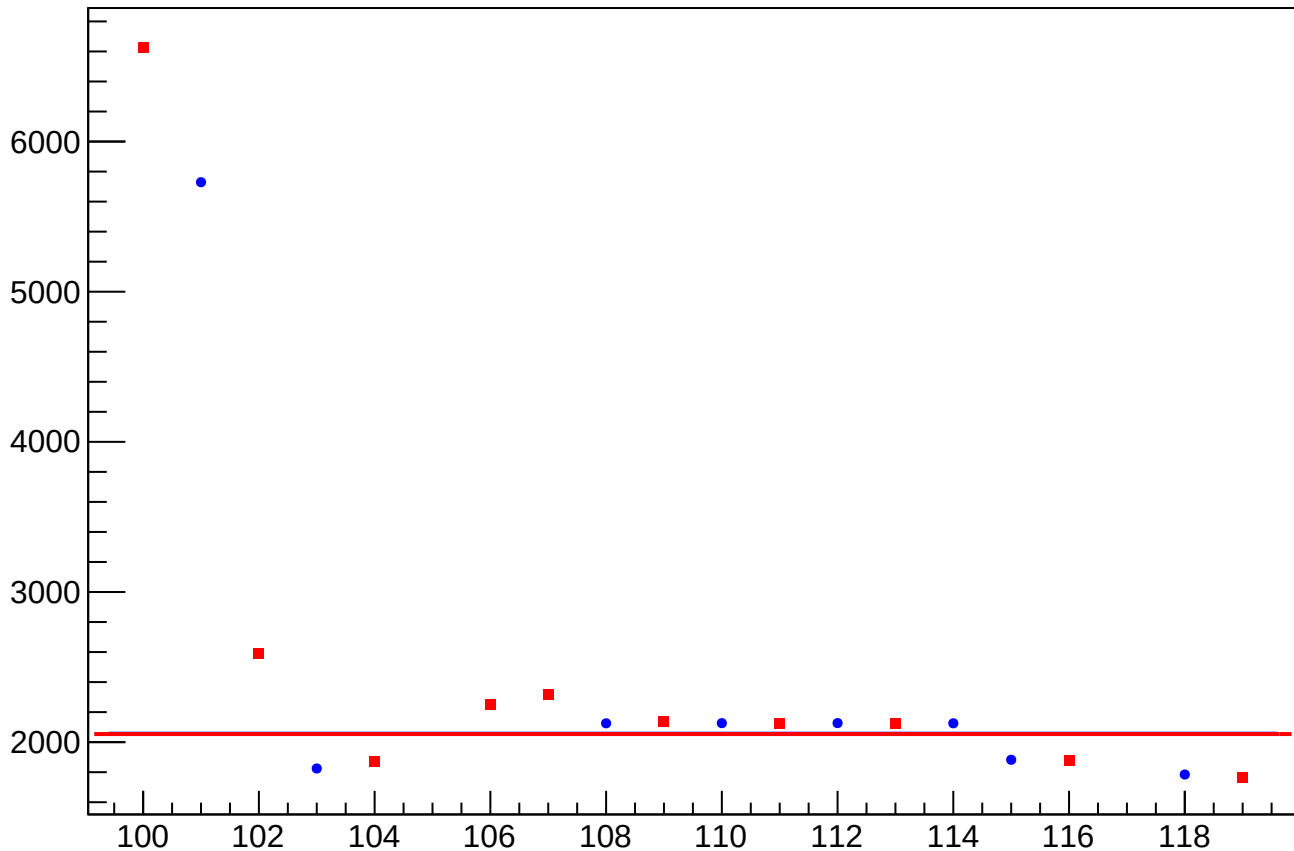
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1051.575 \pm 781.839$   $\chi^2/\text{NDF}$ : 14.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 2056.220+/-0.835  $\chi^2/\text{NDF}$ : 588880.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2053.878+/-0.738  $\chi^2/\text{NDF}$ : 172107.6/9

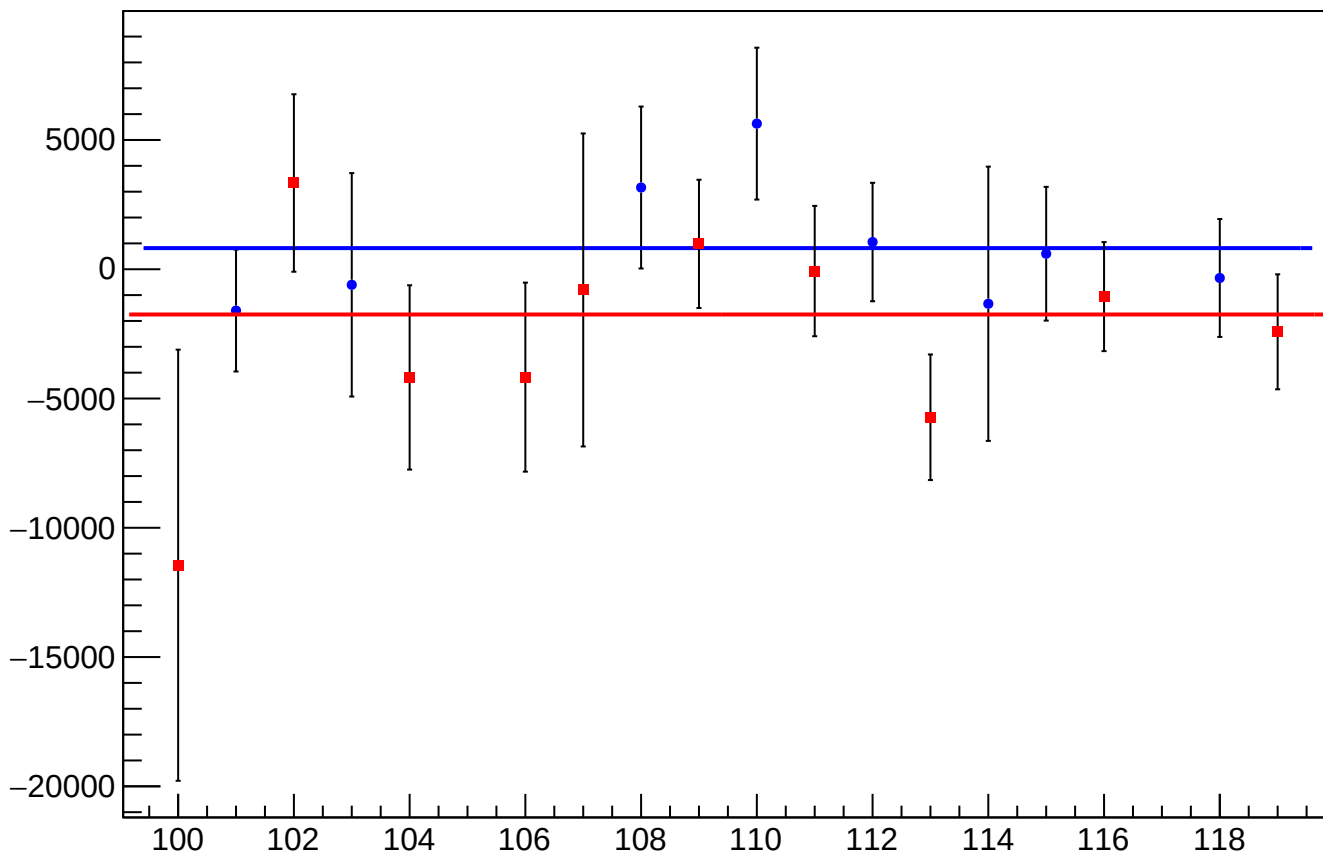
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2054.905+/-0.553  $\chi^2/\text{NDF}$ : 760992.4/17

- 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: 817.547+/-990.577  $\chi^2/\text{NDF}$ : 4.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1750.023+/-914.132  $\chi^2/\text{NDF}$ : 9.0/9

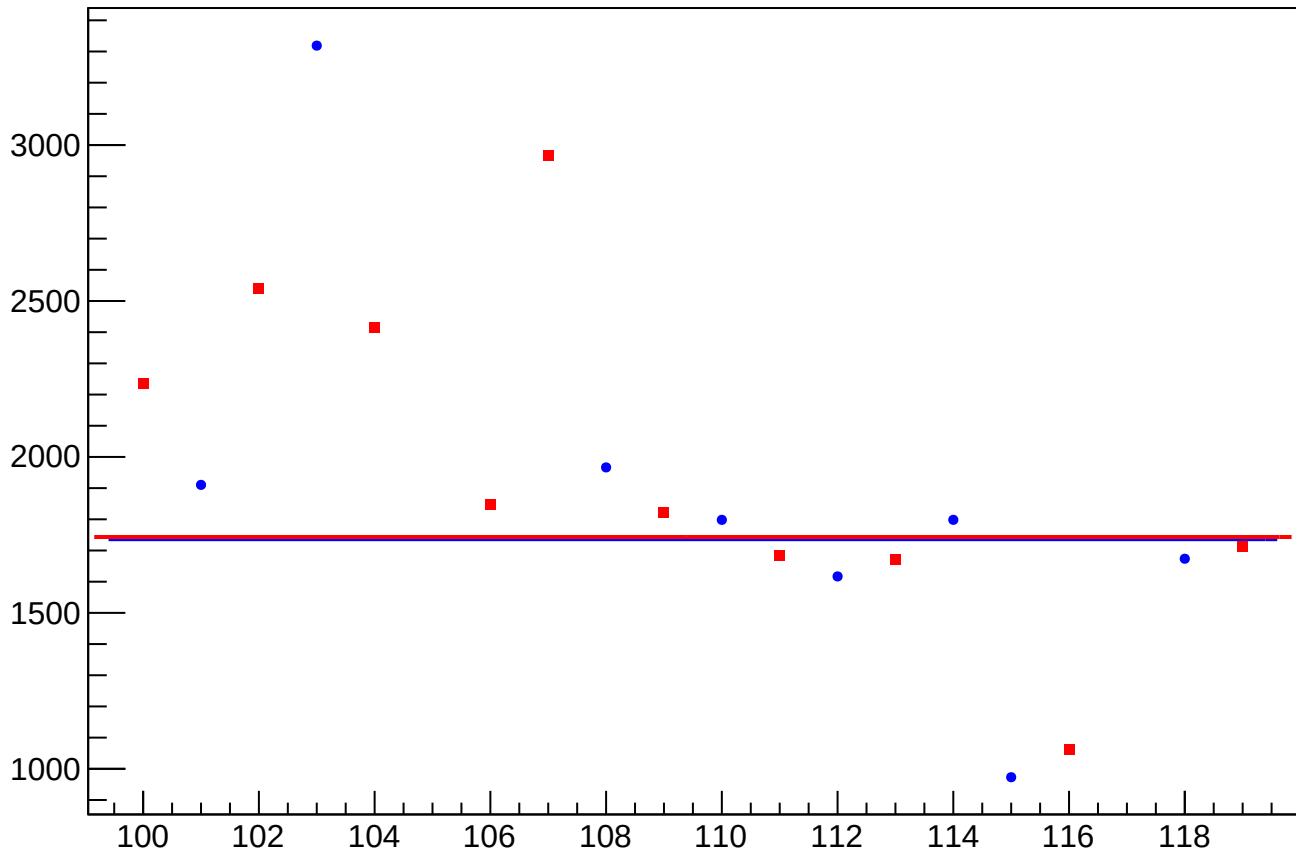
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -569.120+/-671.791  $\chi^2/\text{NDF}$ : 17.5/17

- 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: 1736.310+/-0.700  $\chi^2/\text{NDF}$ : 472201.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1743.286+/-0.646  $\chi^2/\text{NDF}$ : 482575.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

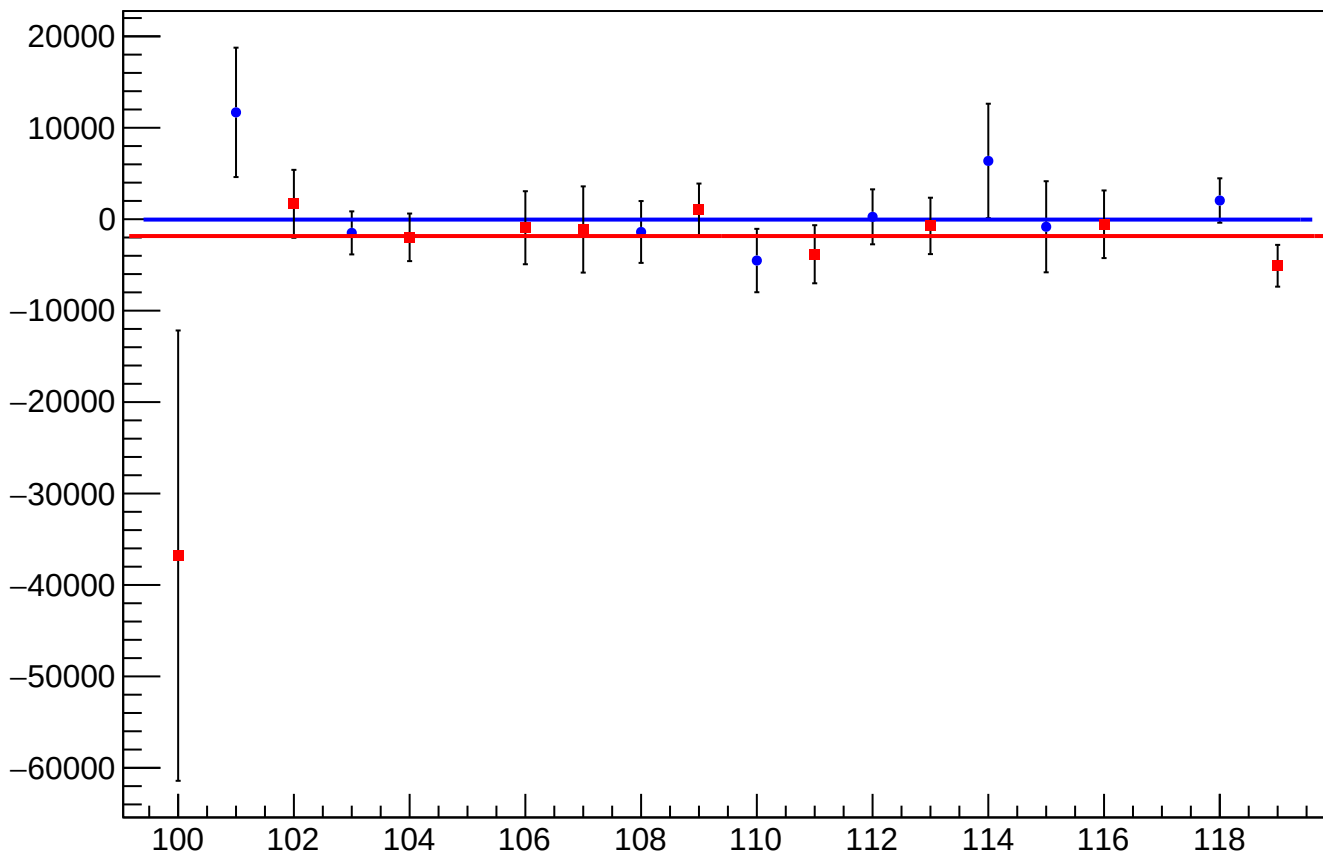
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1740.078+/-0.475  $\chi^2/\text{NDF}$ : 954831.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In:  $-41.122 \pm 1180.703$   $\chi^2/\text{NDF}$ : 6.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1840.629 \pm 1043.365$   $\chi^2/\text{NDF}$ : 6.6/9

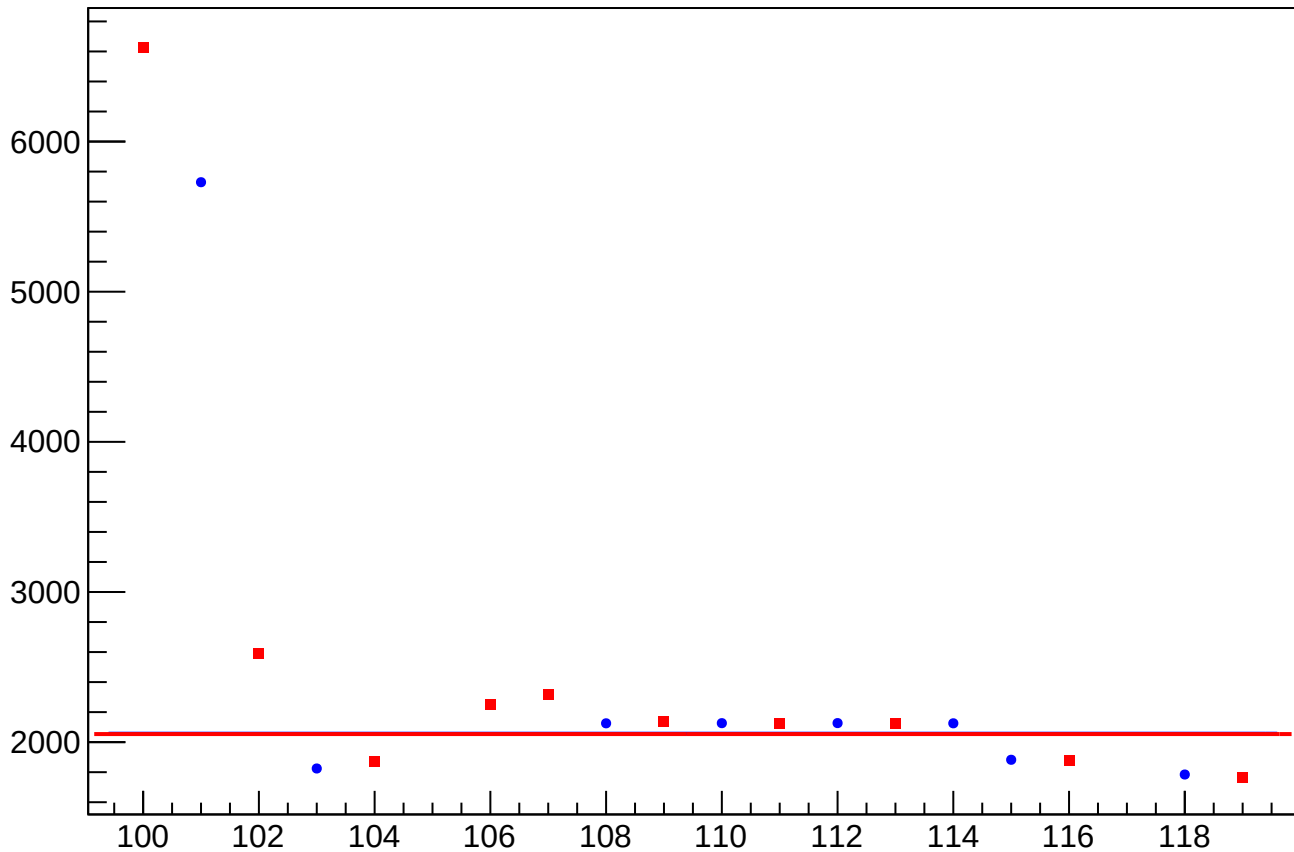
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1051.575 \pm 781.839$   $\chi^2/\text{NDF}$ : 14.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 2056.220+/-0.835  $\chi^2/\text{NDF}$ : 588880.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2053.878+/-0.738  $\chi^2/\text{NDF}$ : 172107.6/9

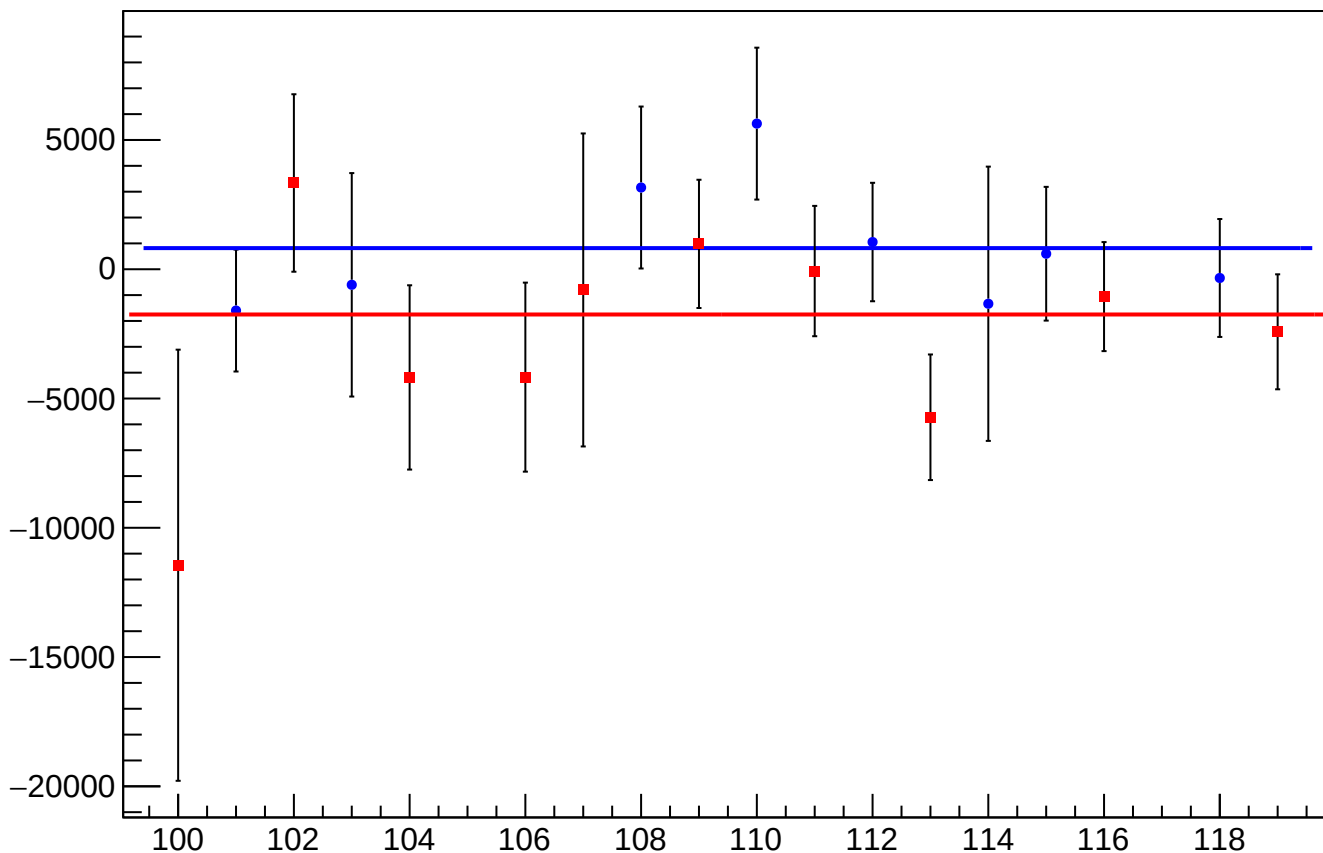
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2054.905+/-0.553  $\chi^2/\text{NDF}$ : 760992.4/17

- 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: 817.547+/-990.577  $\chi^2/\text{NDF}$ : 4.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1750.023+/-914.132  $\chi^2/\text{NDF}$ : 9.0/9

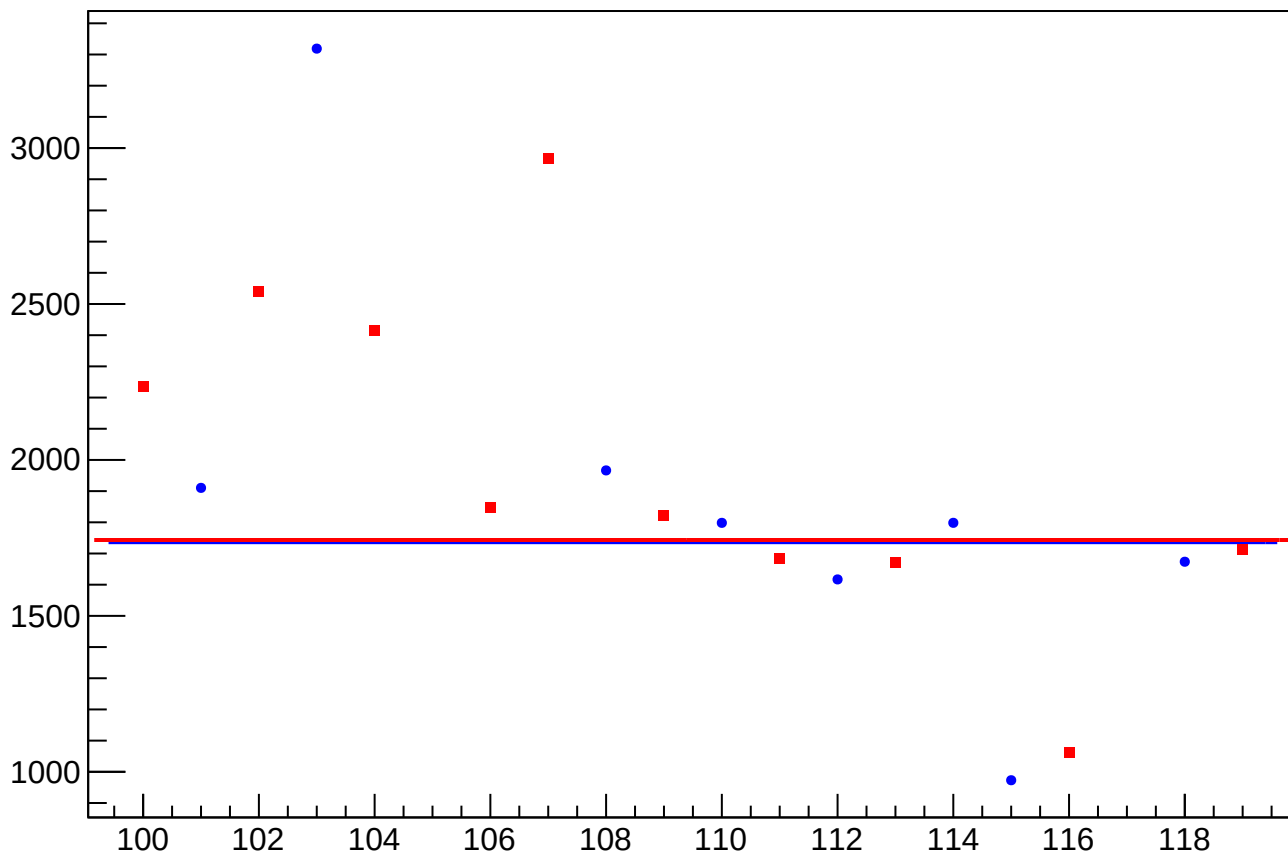
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -569.120+/-671.791  $\chi^2/\text{NDF}$ : 17.5/17

- 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: 1736.310+/-0.700  $\chi^2/\text{NDF}$ : 472201.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1743.286+/-0.646  $\chi^2/\text{NDF}$ : 482575.8/9

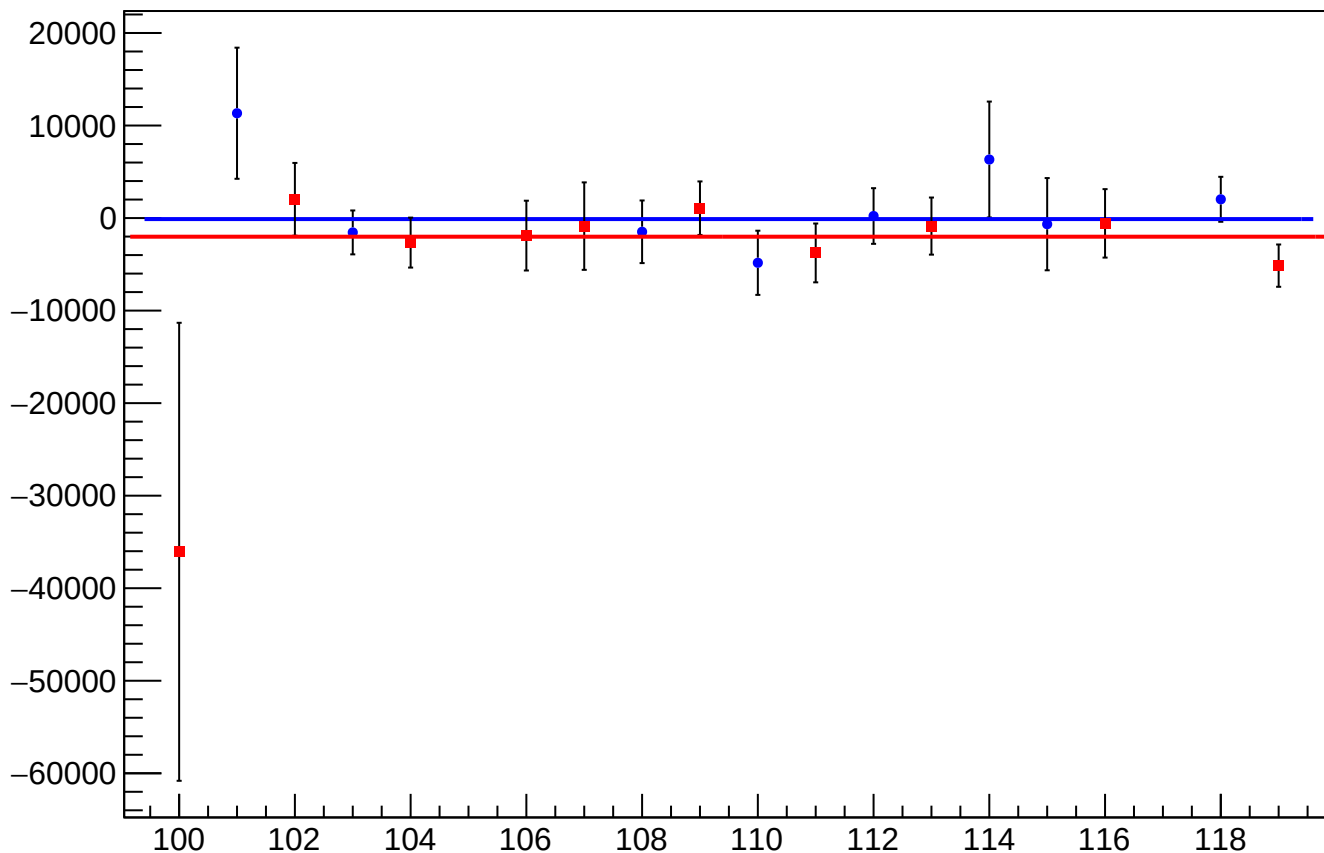
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1740.078+/-0.475  $\chi^2/\text{NDF}$ : 954831.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In:  $-109.570 \pm 1183.493$   $\chi^2/\text{NDF}$ : 6.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2013.554 \pm 1050.244$   $\chi^2/\text{NDF}$ : 6.7/9

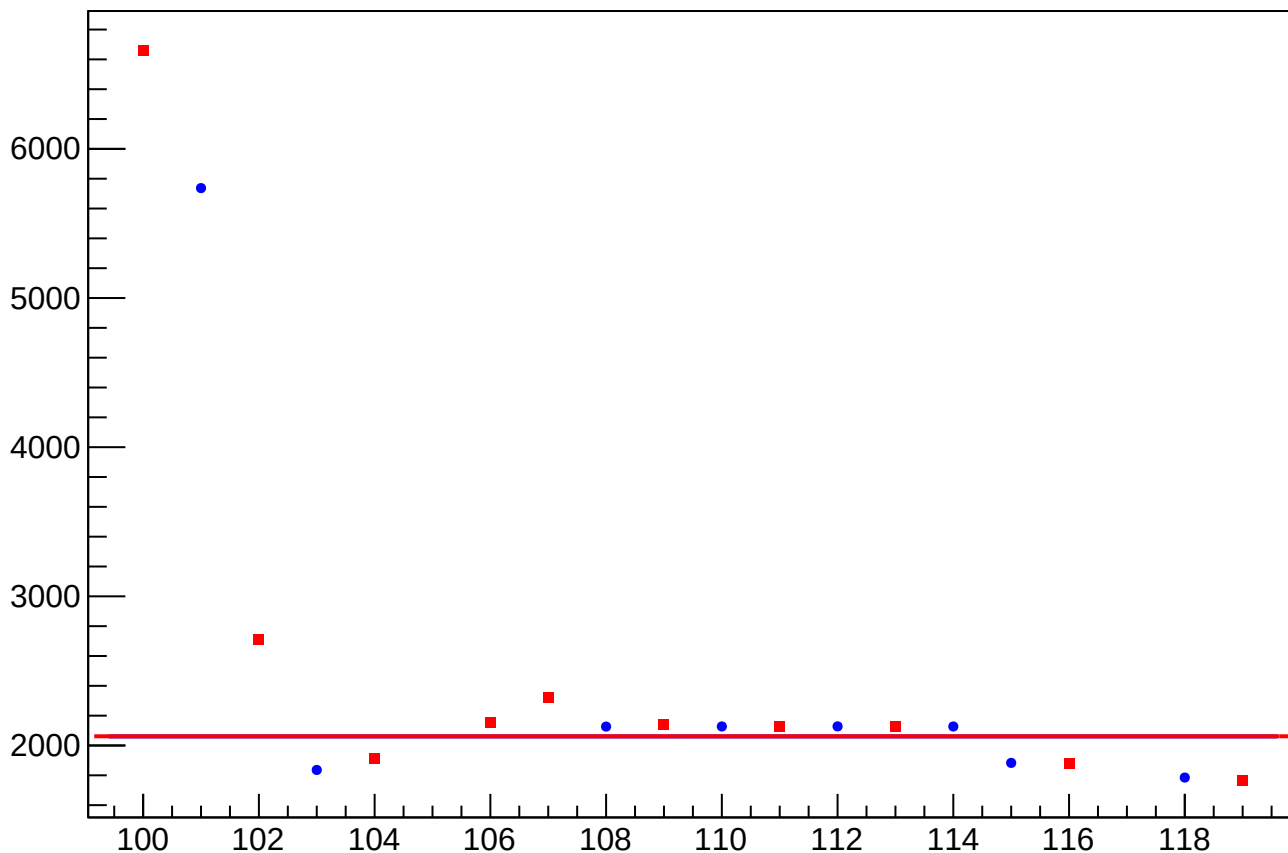
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1174.737 \pm 785.539$   $\chi^2/\text{NDF}$ : 15.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 2060.607 $\pm$ 0.837  $\chi^2$ /NDF: 587516.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2061.707 $\pm$ 0.743  $\chi^2$ /NDF: 178528.2/9

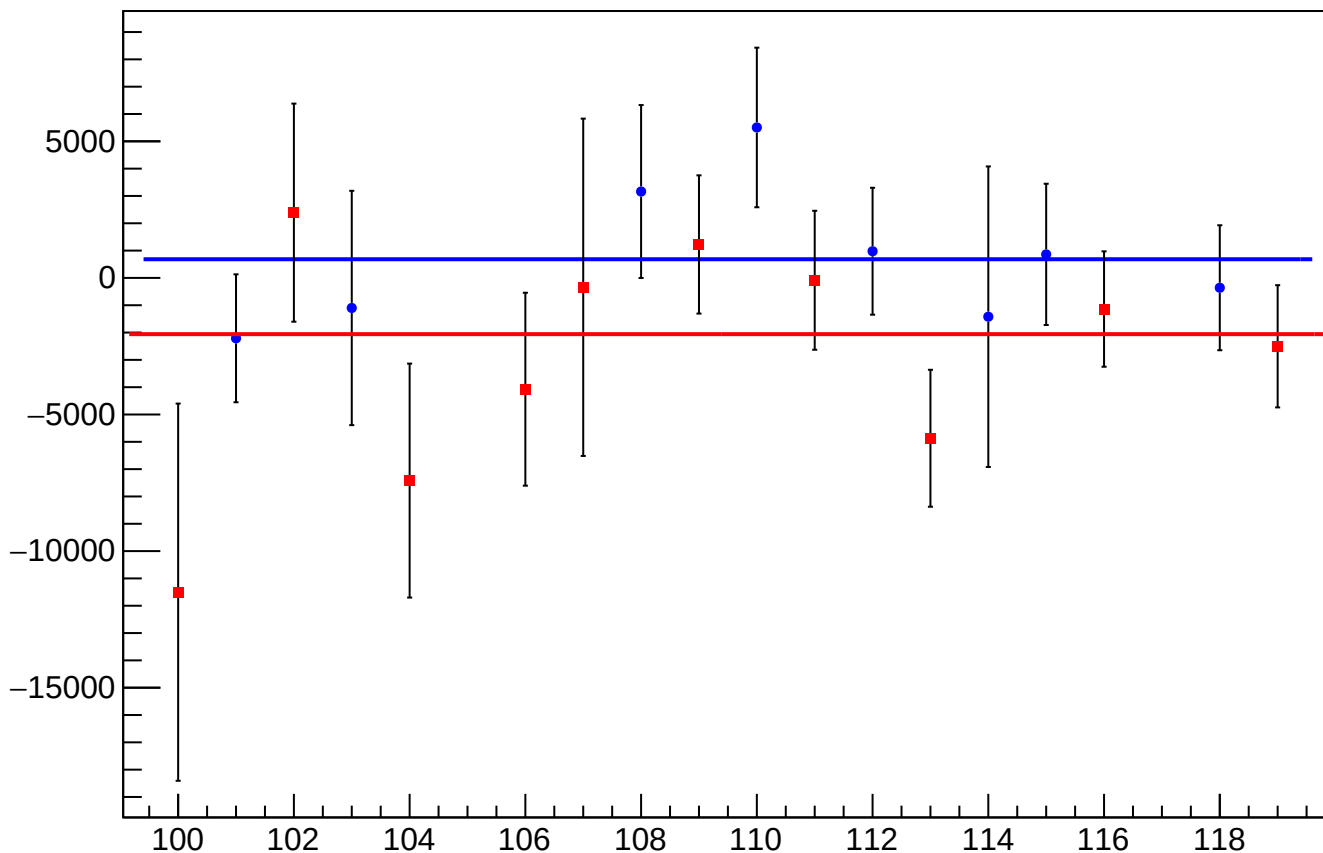
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2061.222 $\pm$ 0.555  $\chi^2$ /NDF: 766045.4/17

- 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: 683.262 $\pm$ 993.598  $\chi^2$ /NDF: 5.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2058.379 $\pm$ 937.153  $\chi^2$ /NDF: 9.9/9

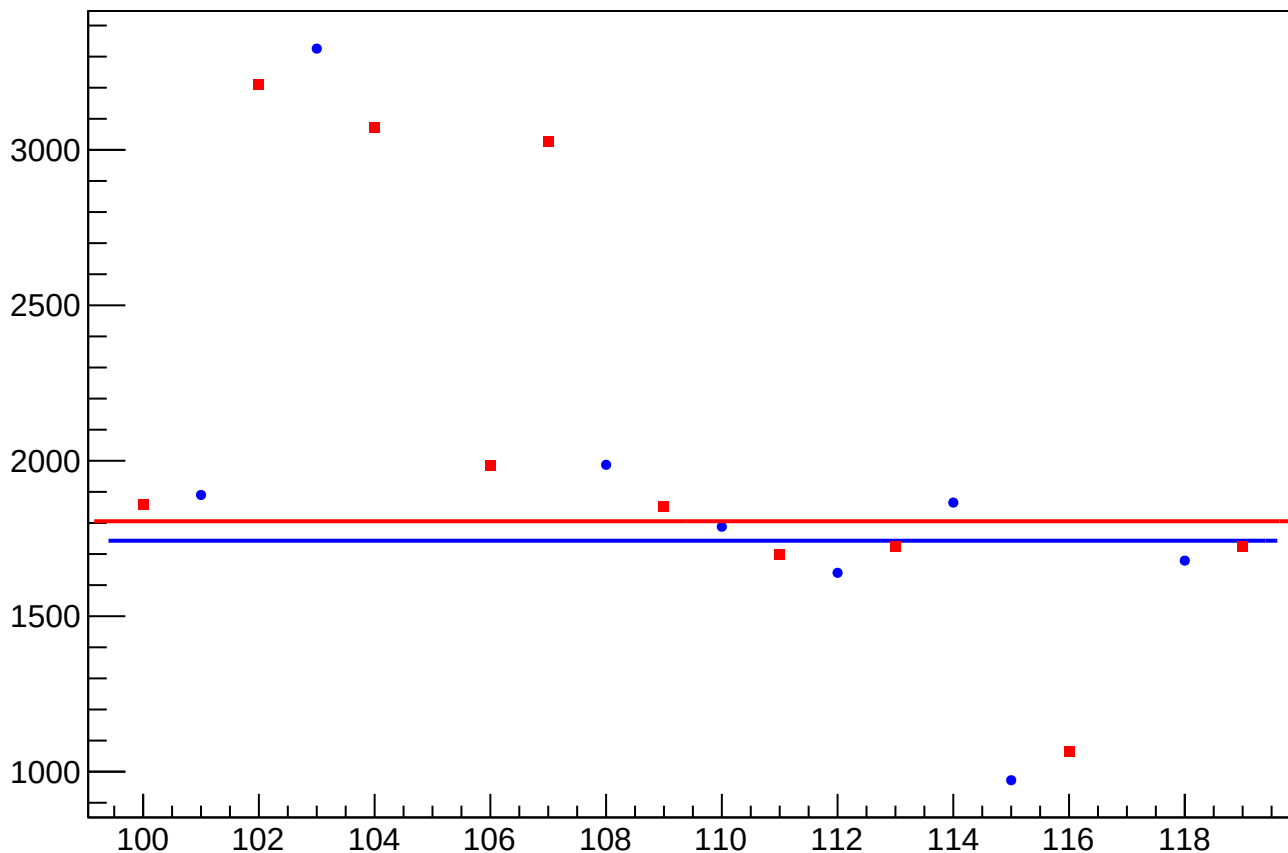
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -767.641 $\pm$ 681.749  $\chi^2$ /NDF: 19.4/17

- 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: 1742.856+/-0.703  $\chi^2/\text{NDF}$ : 476782.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1805.512+/-0.663  $\chi^2/\text{NDF}$ : 761216.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

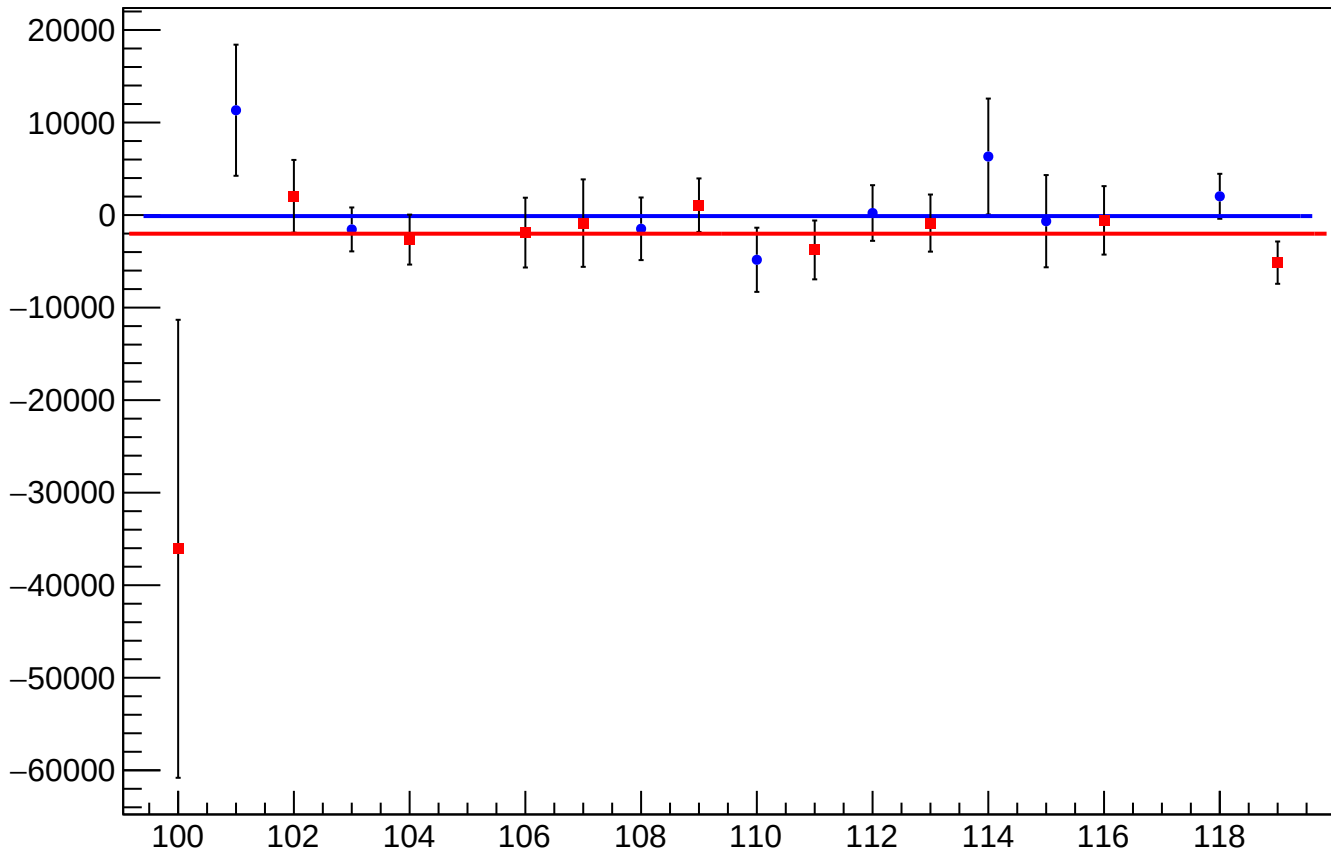
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1776.014+/-0.482  $\chi^2/\text{NDF}$ : 1242207.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In: -109.570+/-1183.493  $\chi^2/\text{NDF}$ : 6.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2013.551+/-1050.244  $\chi^2/\text{NDF}$ : 6.7/9

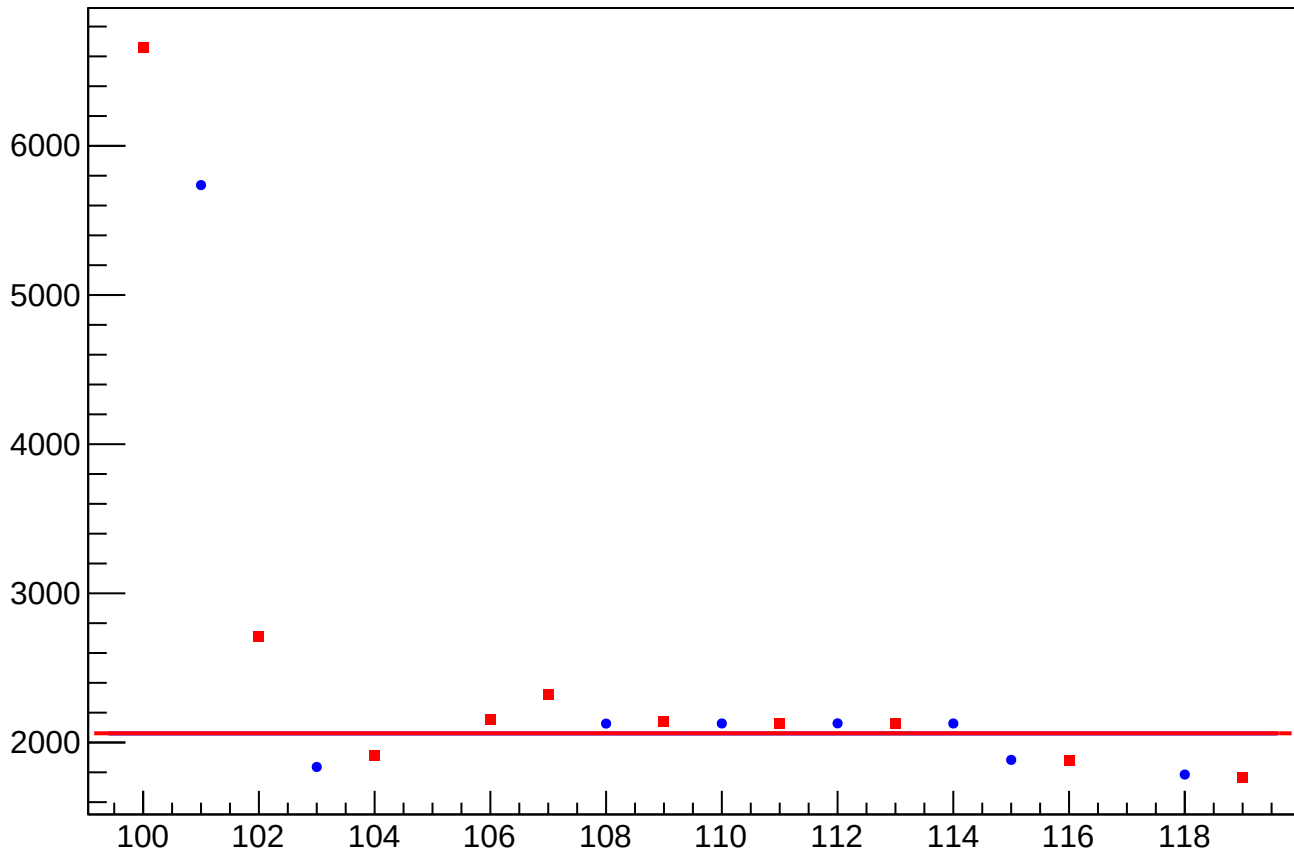
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1174.736+/-785.539  $\chi^2/\text{NDF}$ : 15.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 2060.607 $\pm$ 0.837  $\chi^2$ /NDF: 587516.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2061.707 $\pm$ 0.743  $\chi^2$ /NDF: 178528.1/9

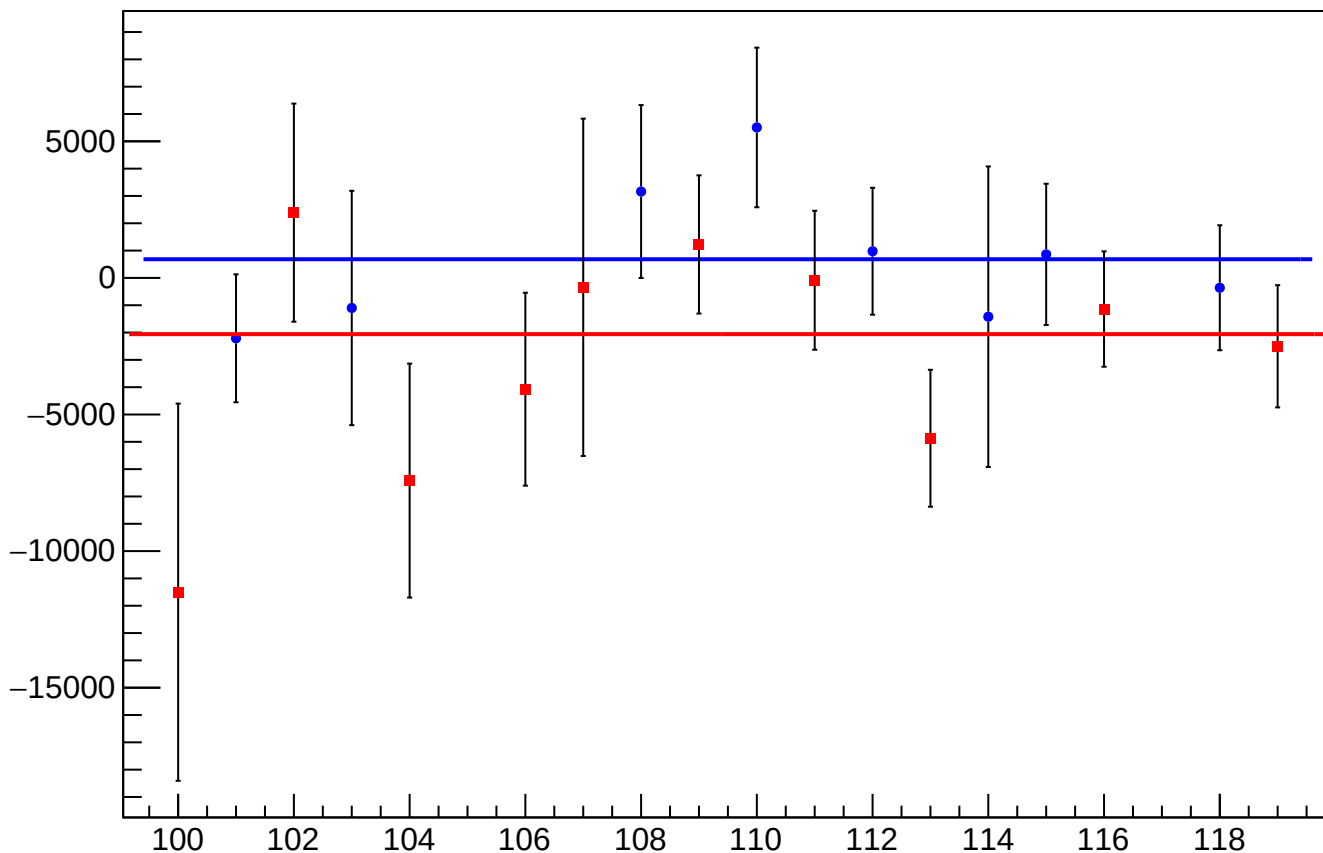
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2061.222 $\pm$ 0.555  $\chi^2$ /NDF: 766045.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 683.263+/-993.596  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2058.373+/-937.151  $\chi^2/\text{NDF}$ : 9.9/9

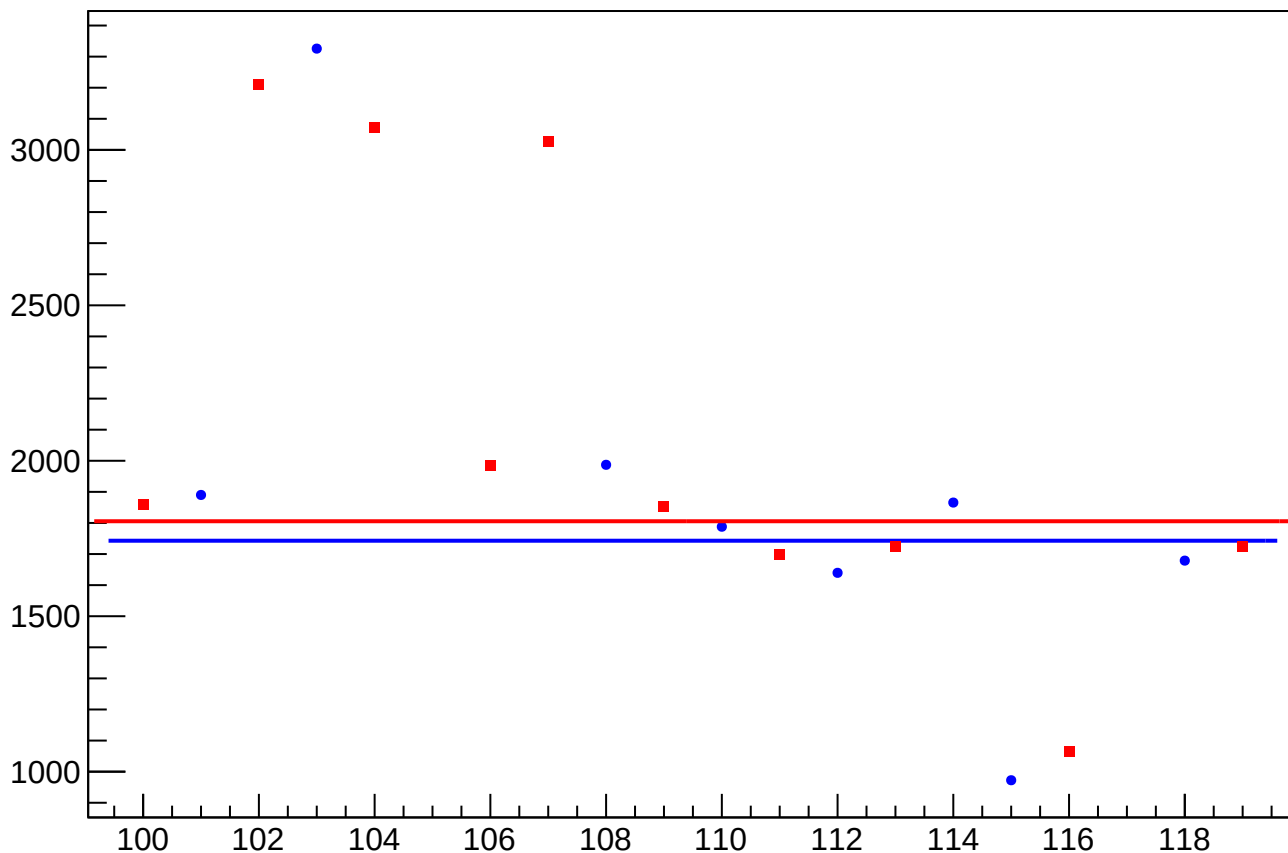
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -767.637+/-681.747  $\chi^2/\text{NDF}$ : 19.4/17

- 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: 1742.852+/-0.703  $\chi^2/\text{NDF}$ : 476785.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1805.507+/-0.663  $\chi^2/\text{NDF}$ : 761224.1/9

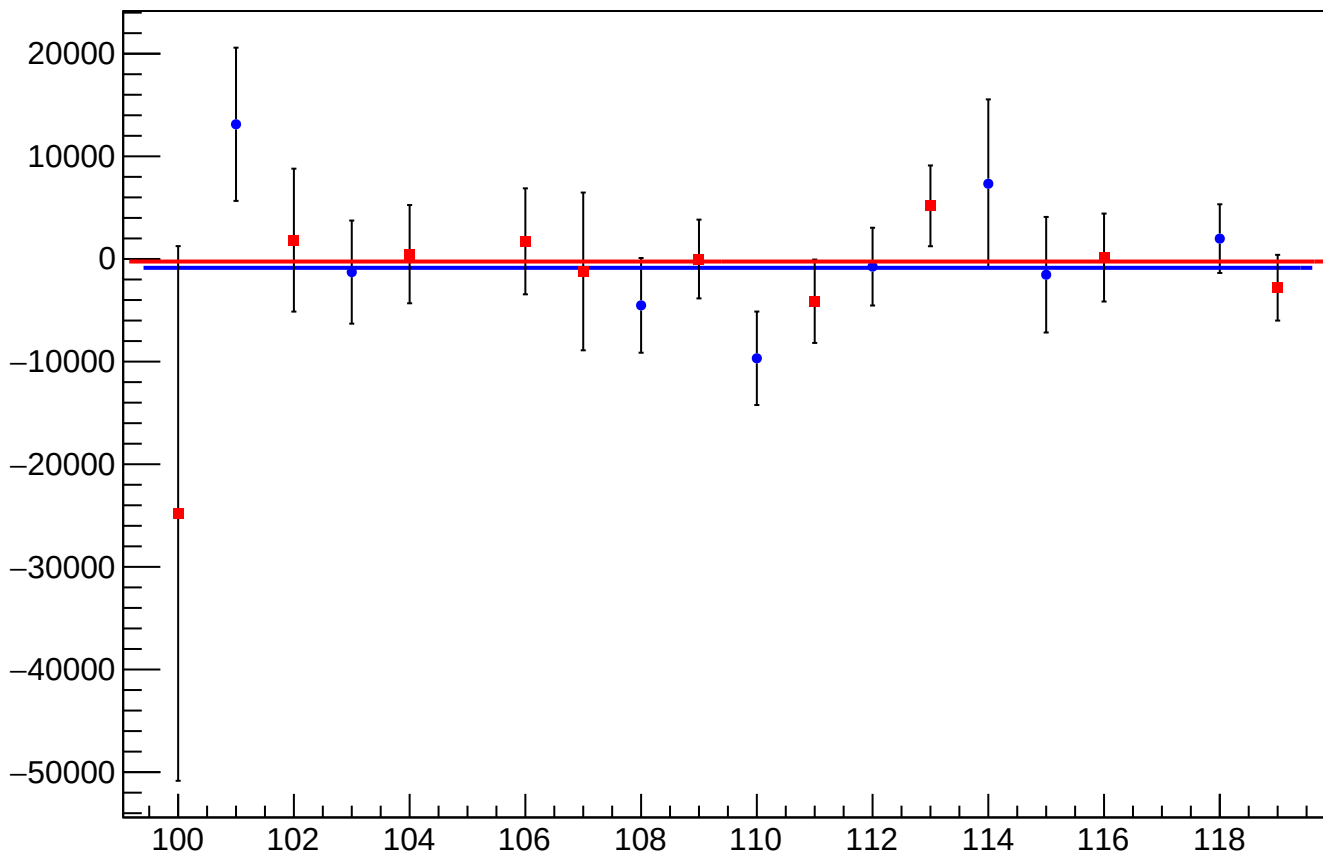
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1776.009+/-0.482  $\chi^2/\text{NDF}$ : 1242218.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In: -862.515+/-1671.008  $\chi^2/\text{NDF}$ : 9.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -248.947+/-1466.020  $\chi^2/\text{NDF}$ : 4.6/9

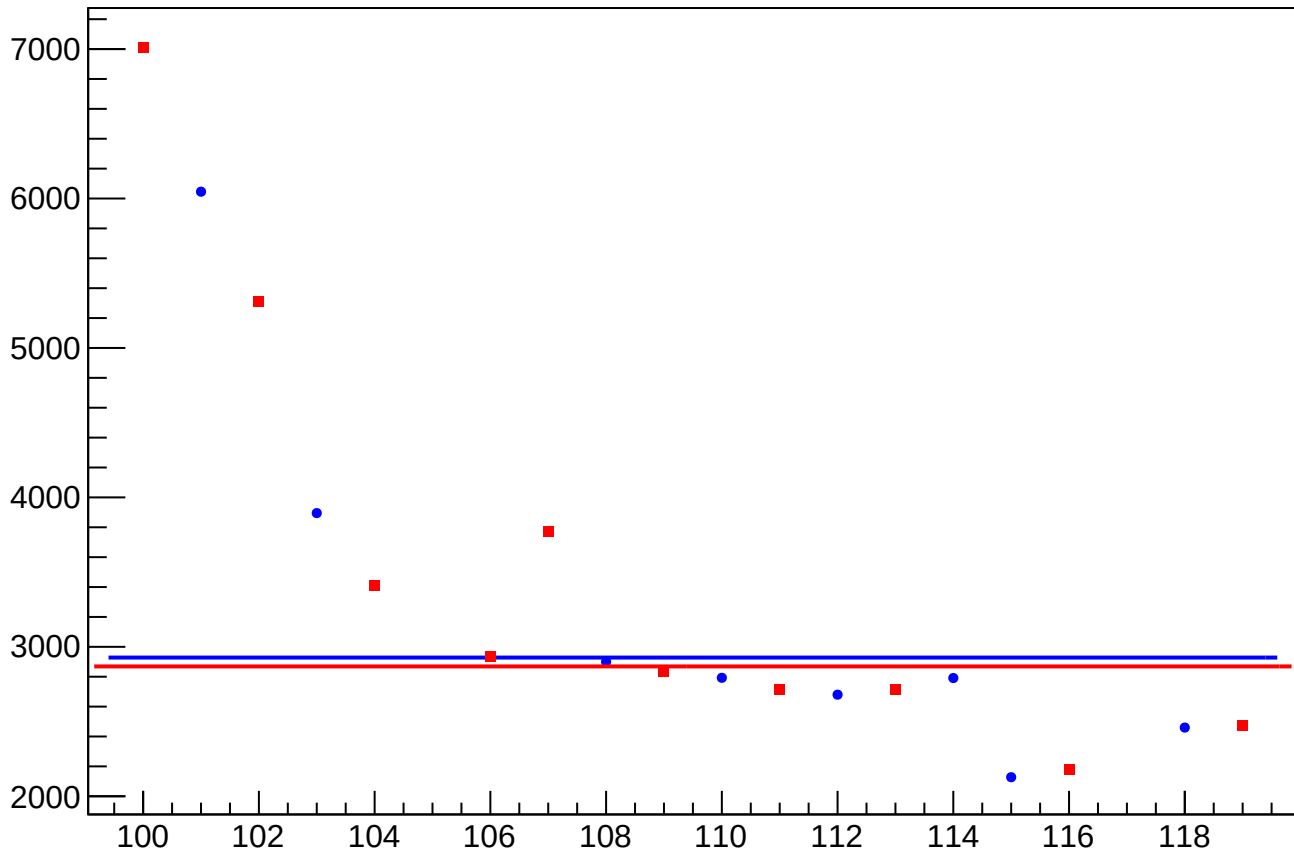
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -515.808+/-1102.021  $\chi^2/\text{NDF}$ : 14.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 2928.117 $\pm$ 1.182  $\chi^2$ /NDF: 513576.8/7

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

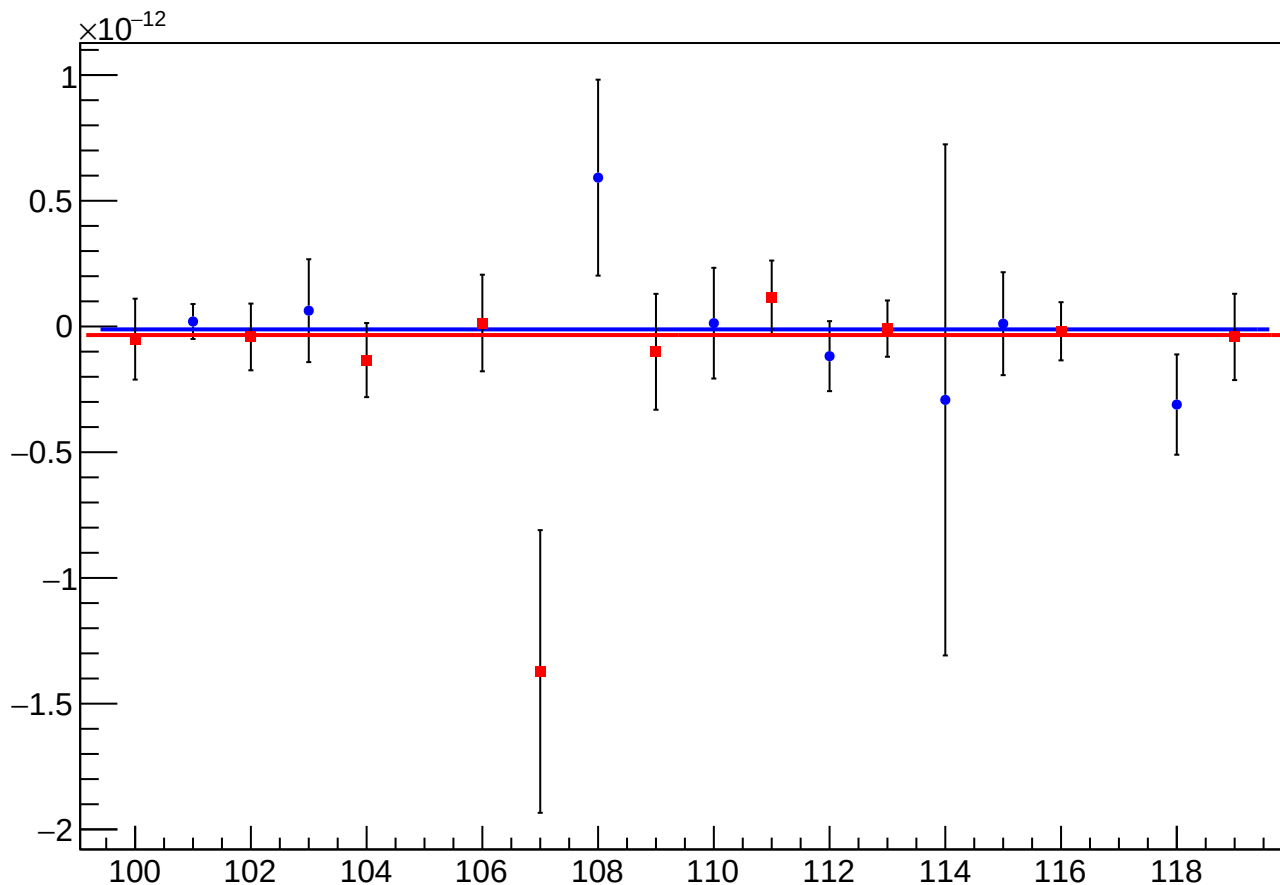
Right Out: 2868.909 $\pm$ 1.037  $\chi^2$ /NDF: 438950.7/9

All: 2894.660 $\pm$ 0.779  $\chi^2$ /NDF: 953946.4/17

- 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\_at1lr\_dd\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.4/9

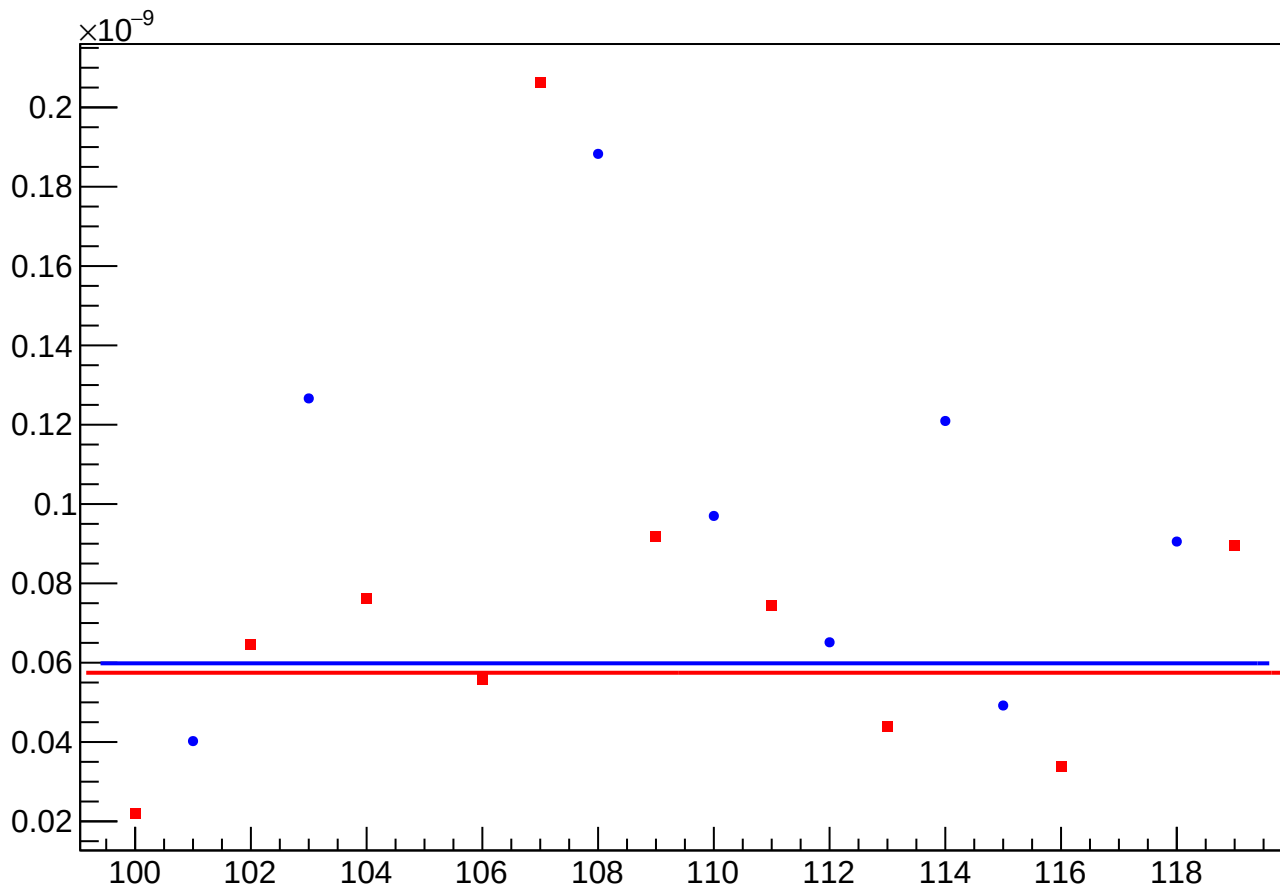
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 709480.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 528658.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

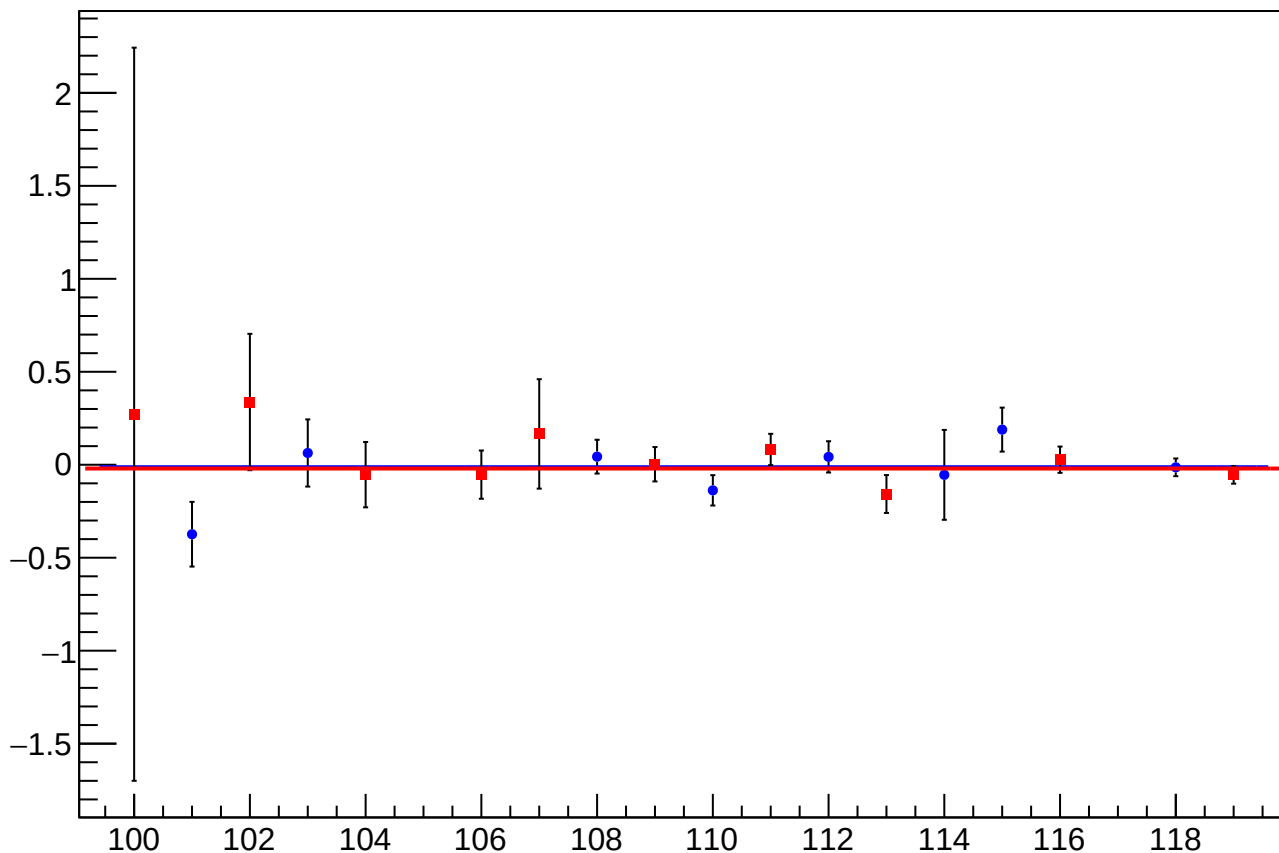
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1240346.9/17

- 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



Right In: -0.013 $\pm$ 0.032  $\chi^2$ /NDF: 10.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.020 $\pm$ 0.030  $\chi^2$ /NDF: 5.8/9

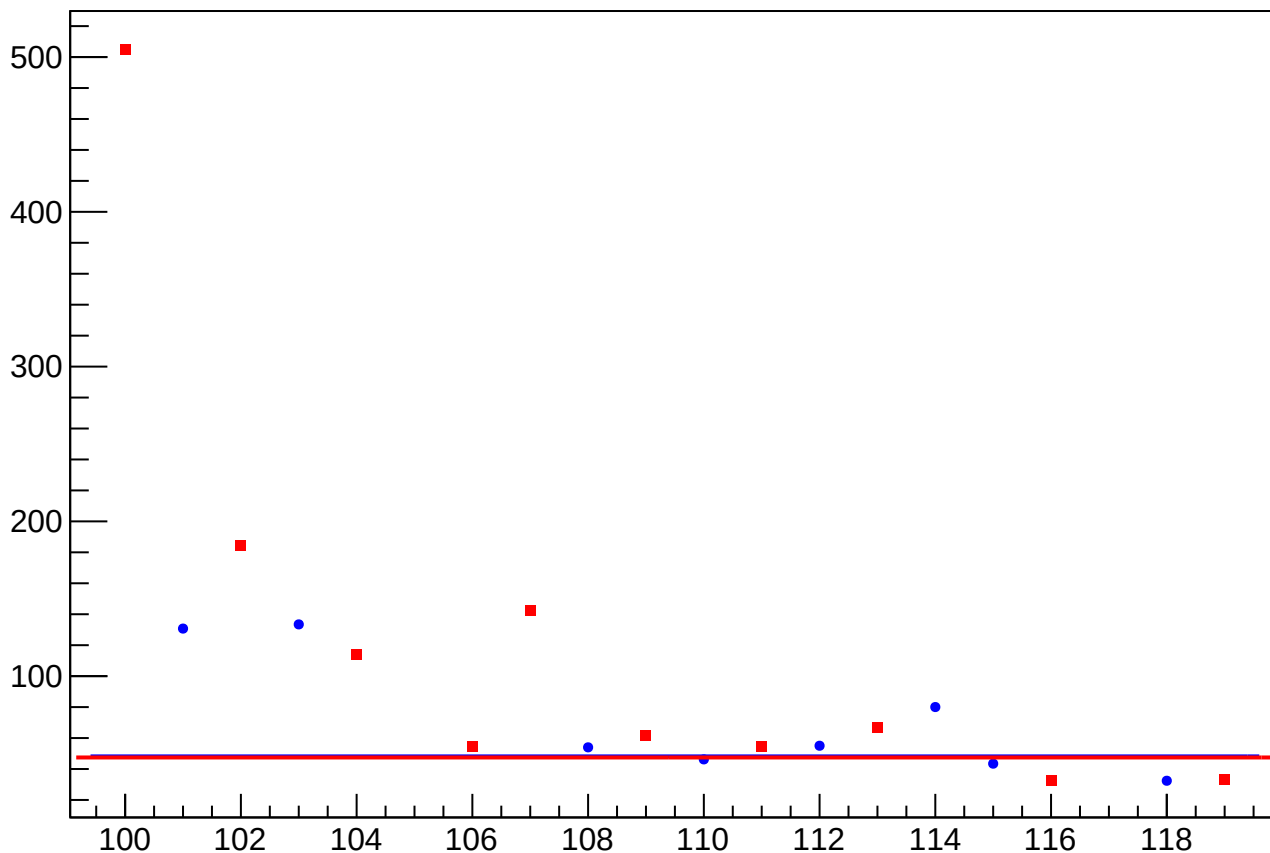
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.022  $\chi^2$ /NDF: 16.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 48.146+/-0.022  $\chi^2/\text{NDF}$ : 1175509.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 47.449+/-0.021  $\chi^2/\text{NDF}$ : 1288520.0/9

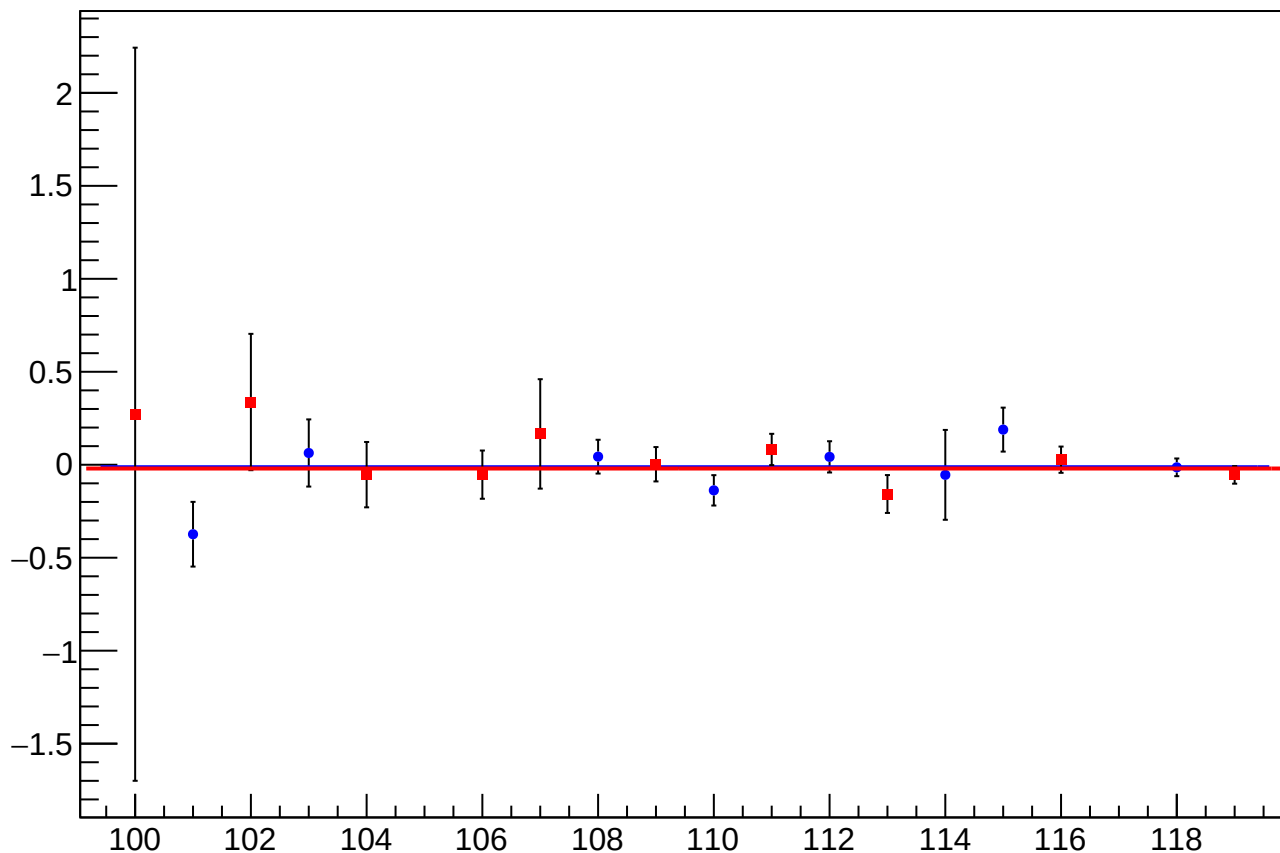
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.780+/-0.015  $\chi^2/\text{NDF}$ : 2464543.2/17

- 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: -0.013+/-0.032  $\chi^2$ /NDF: 10.6/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.020+/-0.030  $\chi^2$ /NDF: 5.8/9

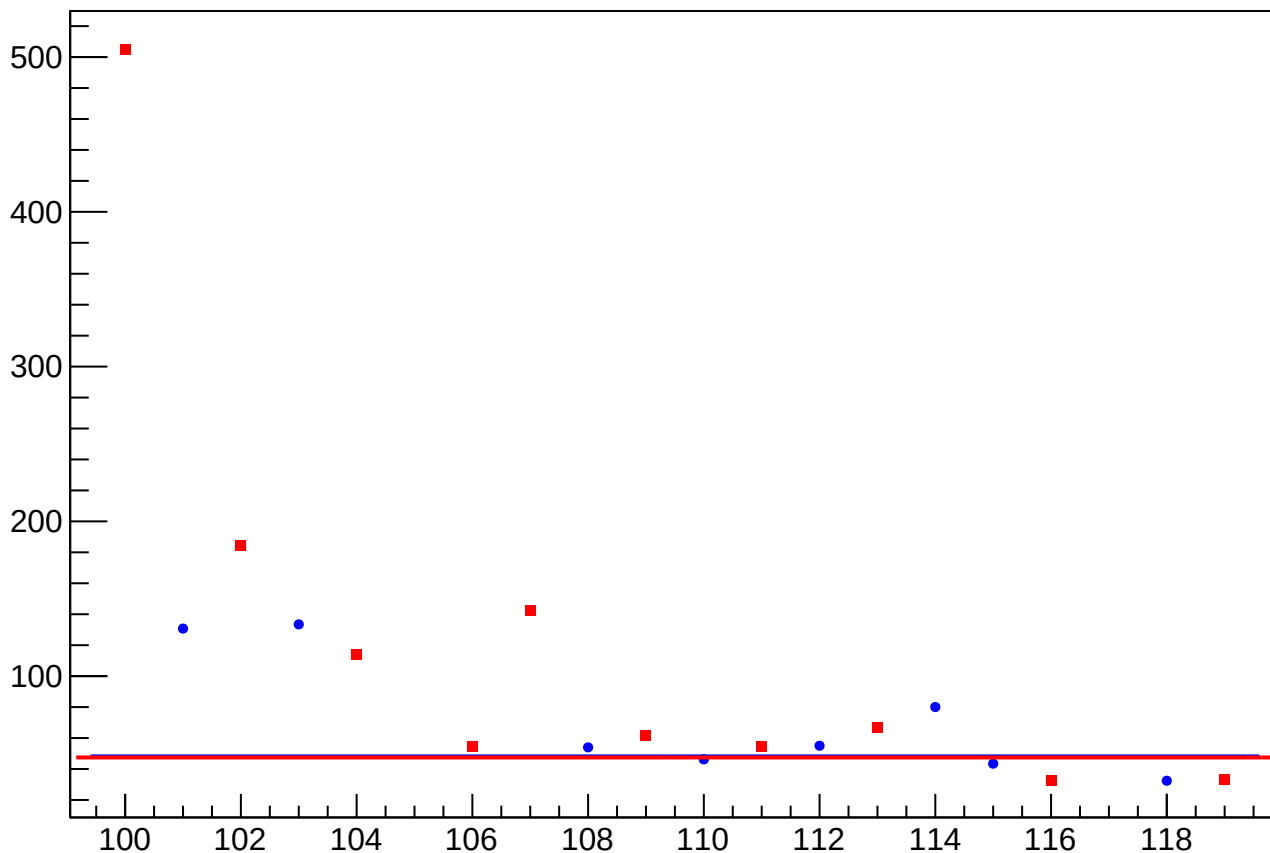
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017+/-0.022  $\chi^2$ /NDF: 16.4/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 48.146+/-0.022  $\chi^2/\text{NDF}$ : 1175509.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 47.449+/-0.021  $\chi^2/\text{NDF}$ : 1288520.0/9

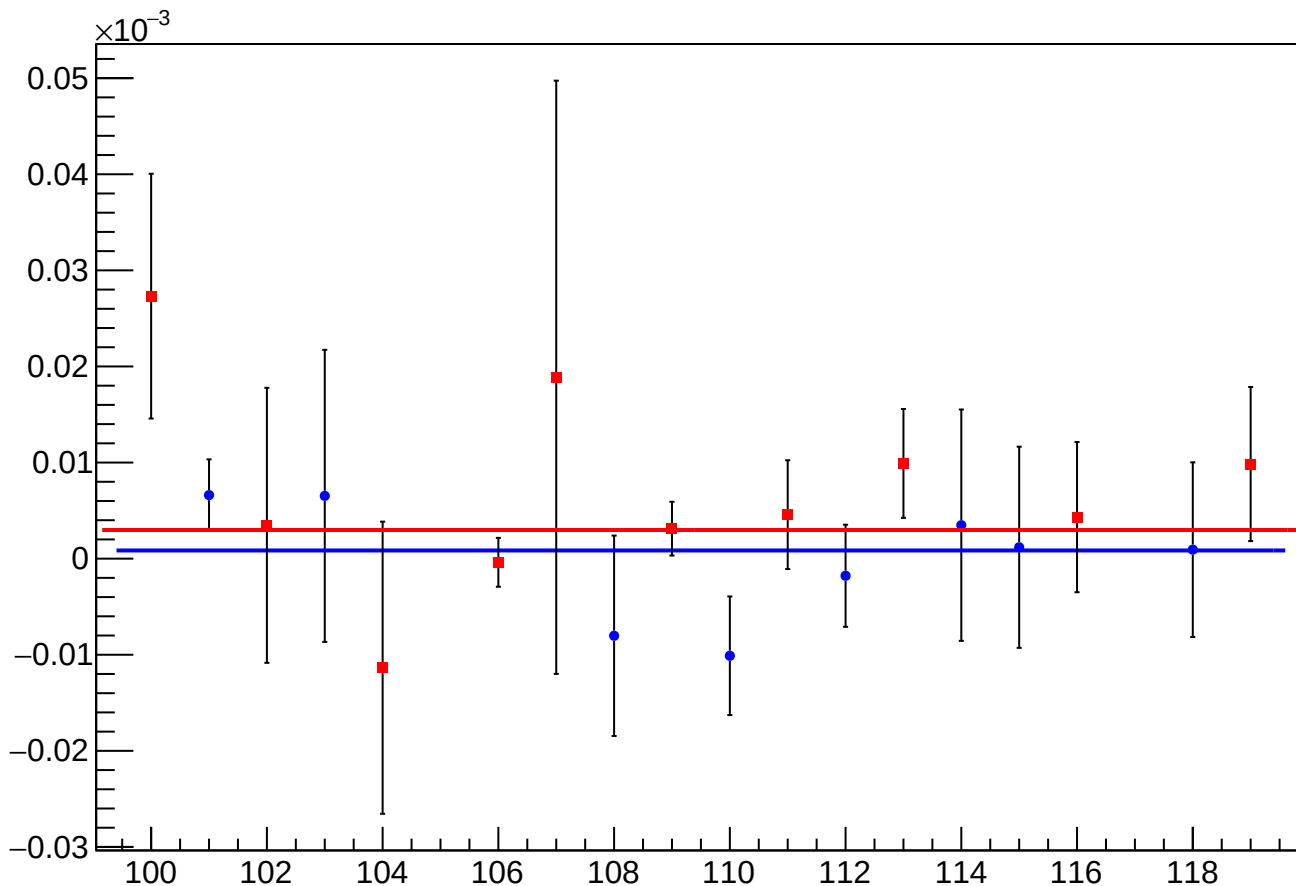
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.780+/-0.015  $\chi^2/\text{NDF}$ : 2464543.2/17

- 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: 6.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.9/9

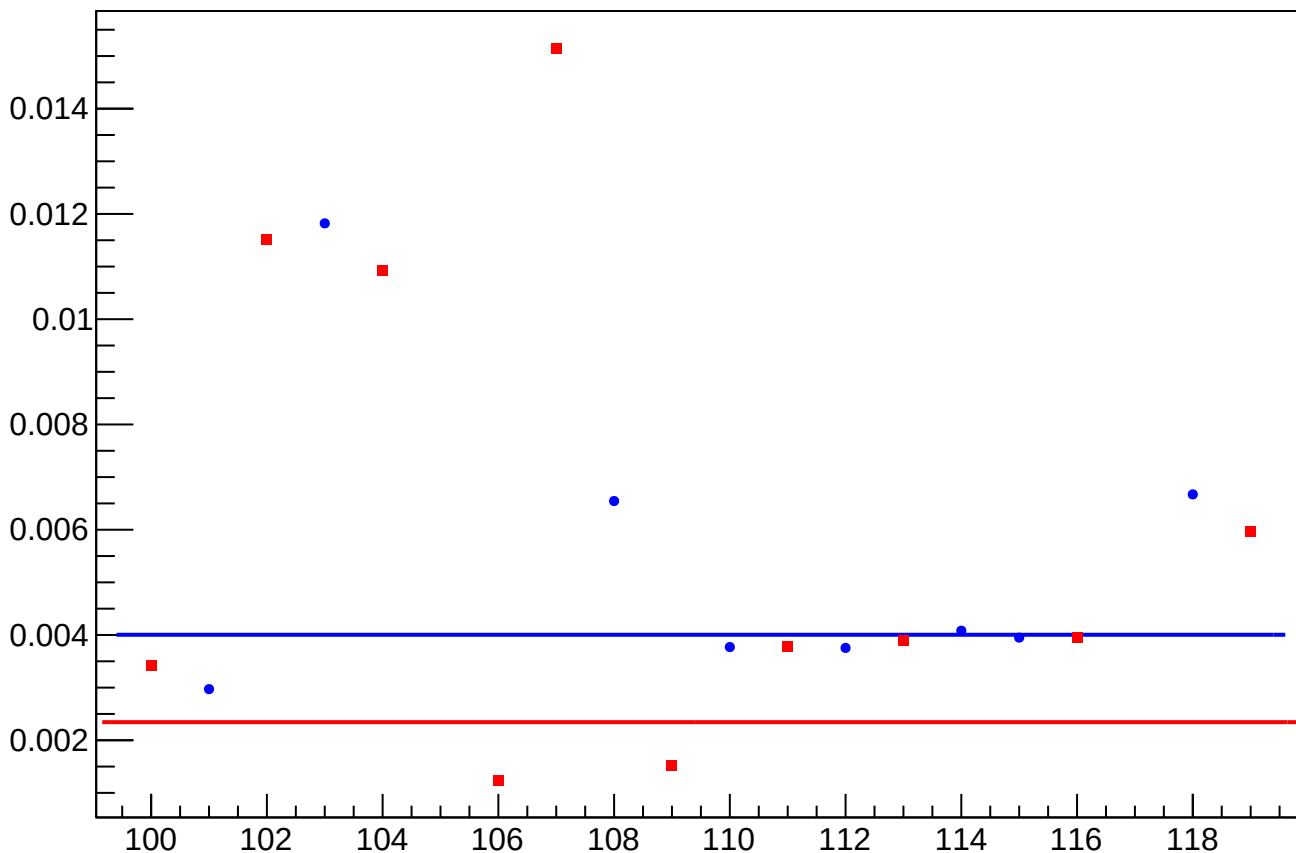
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.2/17

- 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  $\chi^2/\text{NDF}$ : 981508.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3148866.9/9

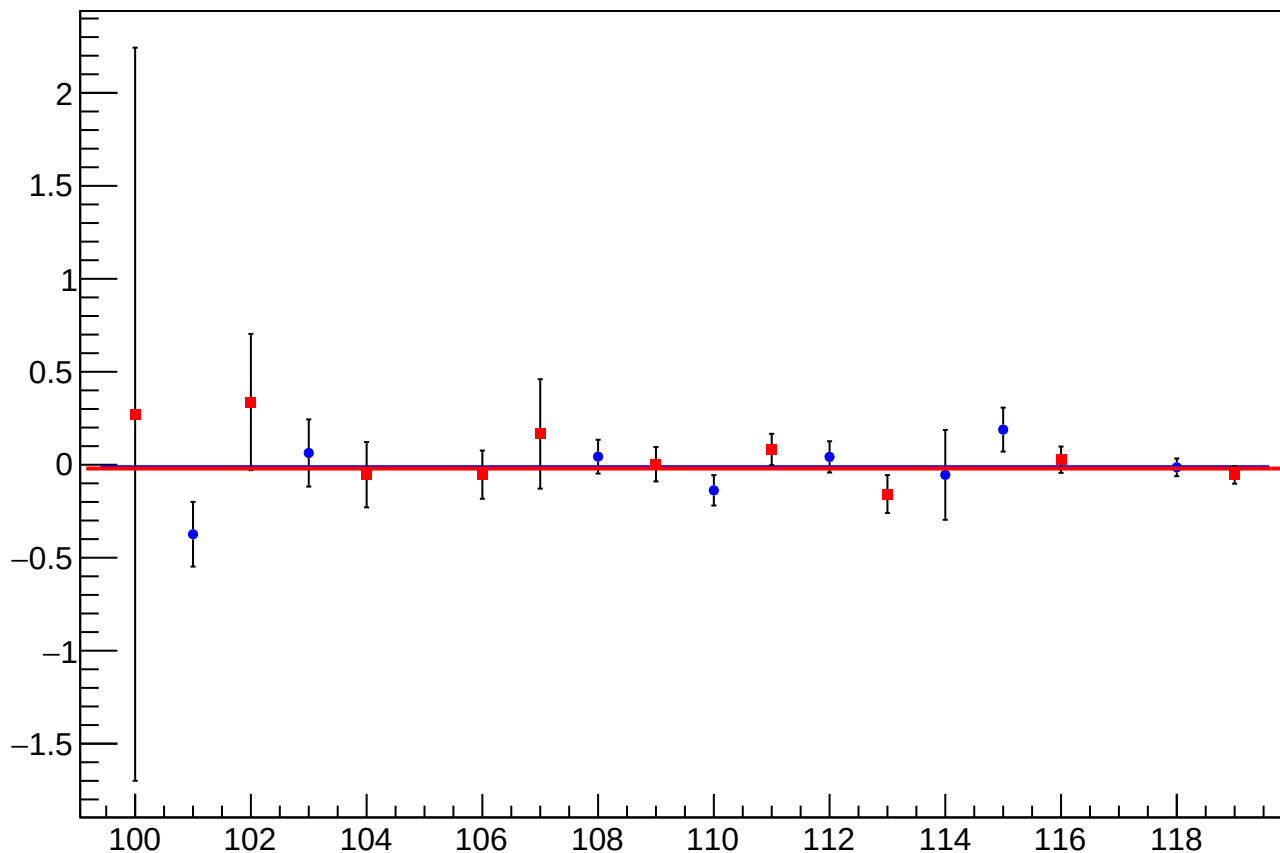
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 4799646.0/17

- 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: -0.013 $\pm$ 0.032  $\chi^2$ /NDF: 10.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.020 $\pm$ 0.030  $\chi^2$ /NDF: 5.8/9

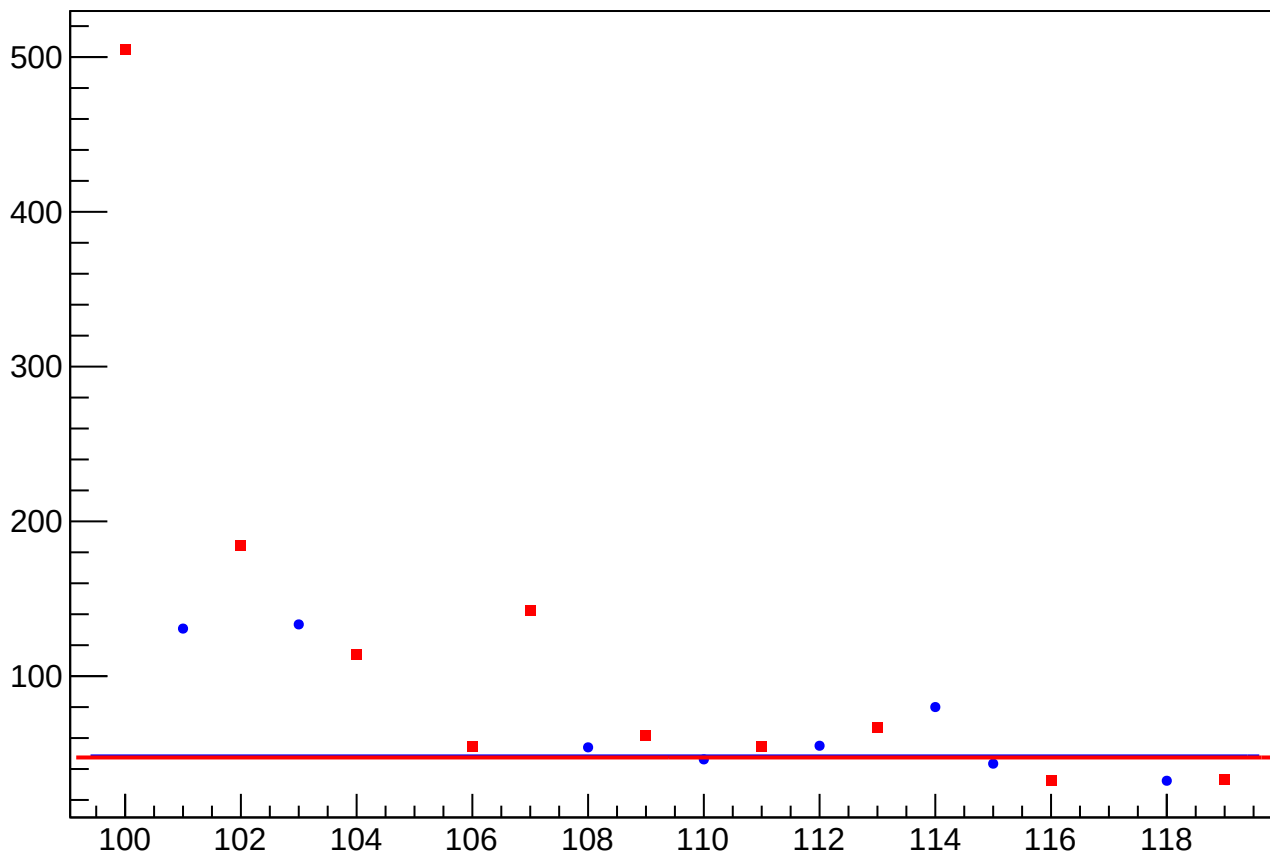
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.022  $\chi^2$ /NDF: 16.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 48.147+/-0.022  $\chi^2/\text{NDF}$ : 1175386.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 47.449+/-0.021  $\chi^2/\text{NDF}$ : 1288454.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

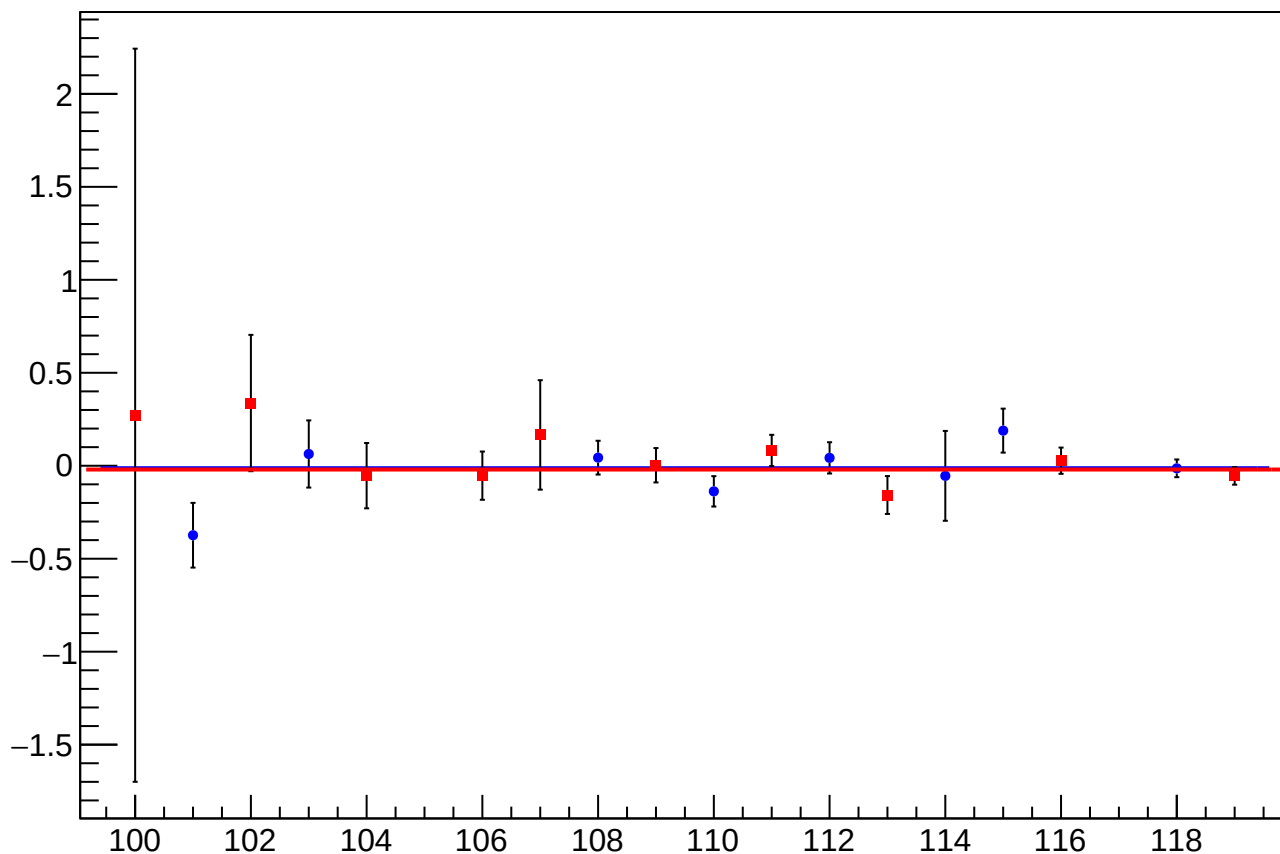
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.780+/-0.015  $\chi^2/\text{NDF}$ : 2464357.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.013 $\pm$ 0.032  $\chi^2$ /NDF: 10.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.020 $\pm$ 0.030  $\chi^2$ /NDF: 5.8/9

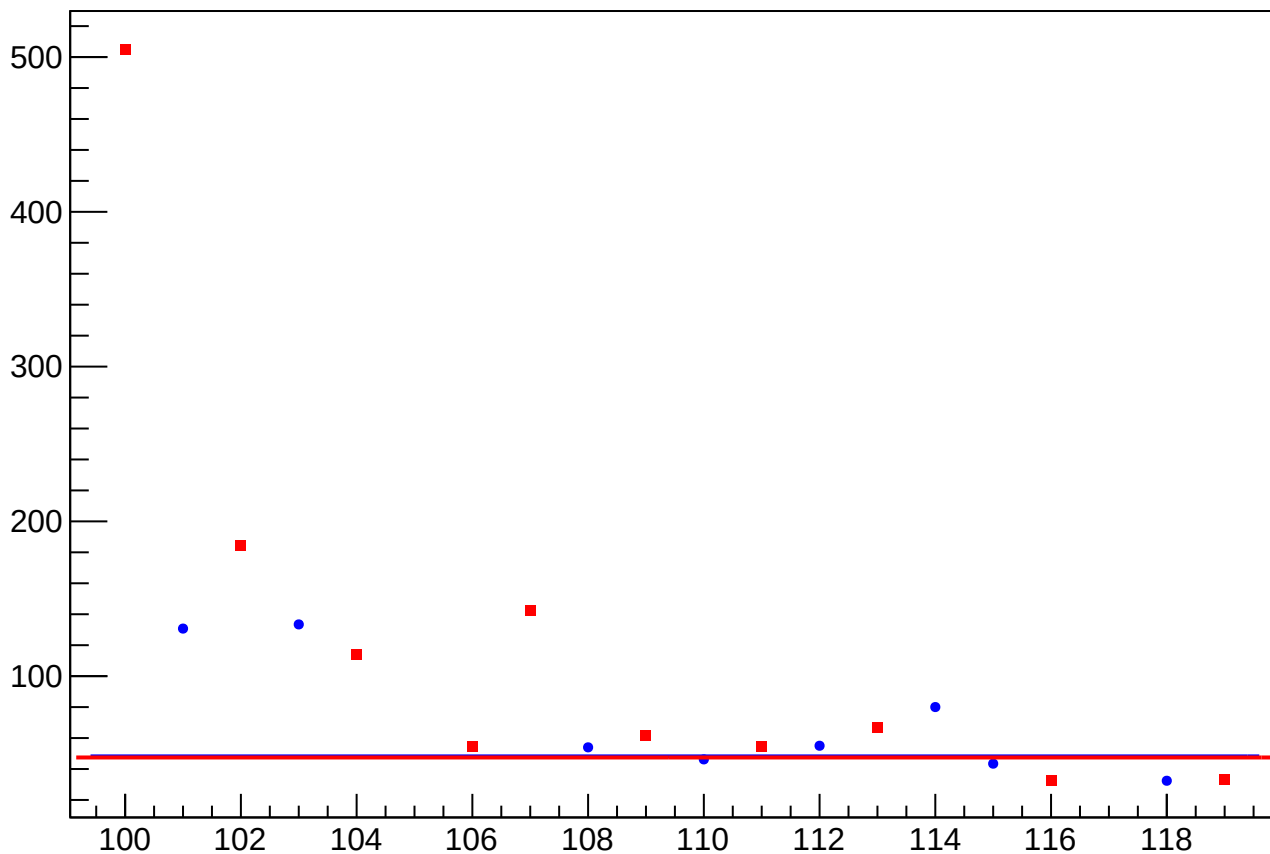
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.017 $\pm$ 0.022  $\chi^2$ /NDF: 16.4/17

- 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: 48.147+/-0.022  $\chi^2/\text{NDF}$ : 1175386.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 47.449+/-0.021  $\chi^2/\text{NDF}$ : 1288454.9/9

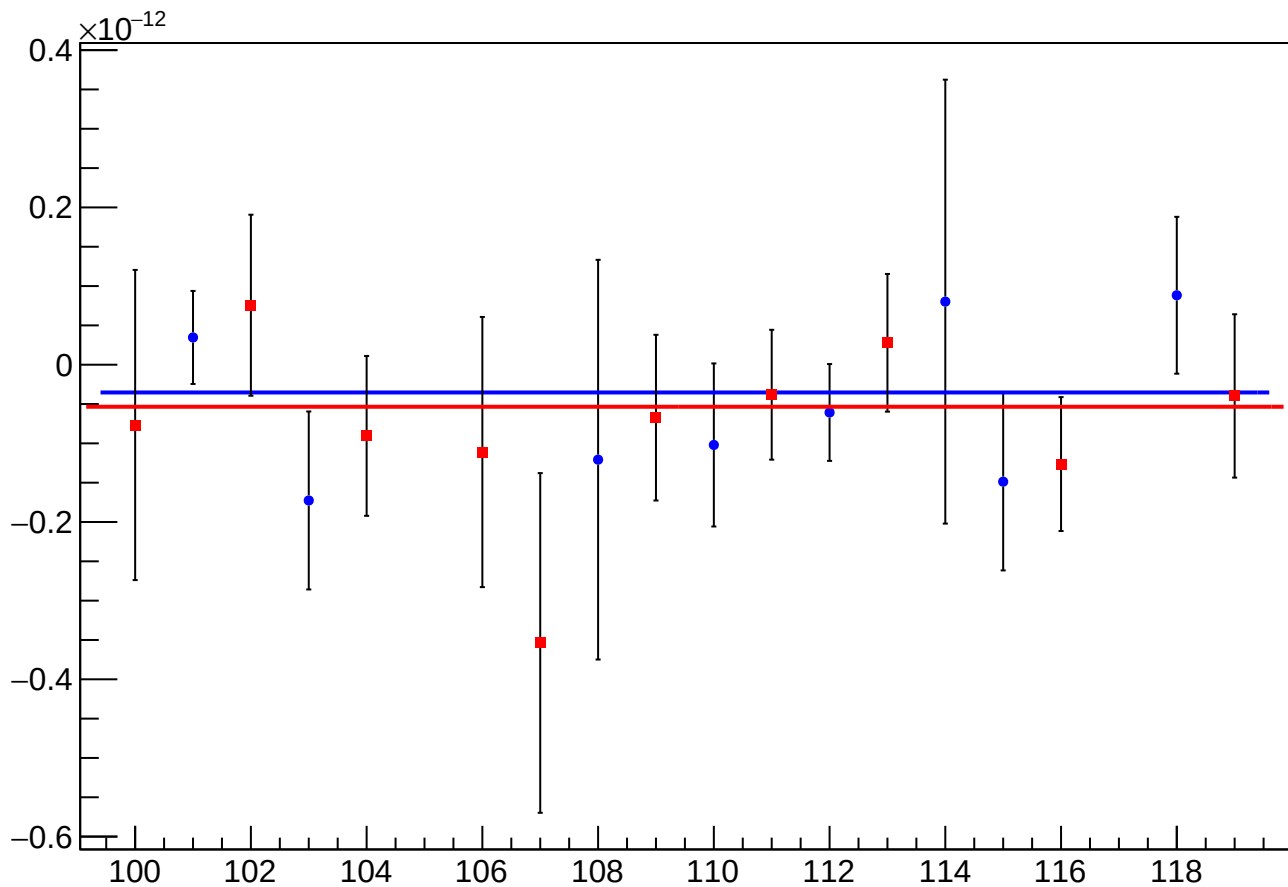
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.780+/-0.015  $\chi^2/\text{NDF}$ : 2464357.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 6.3/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 5.1/9

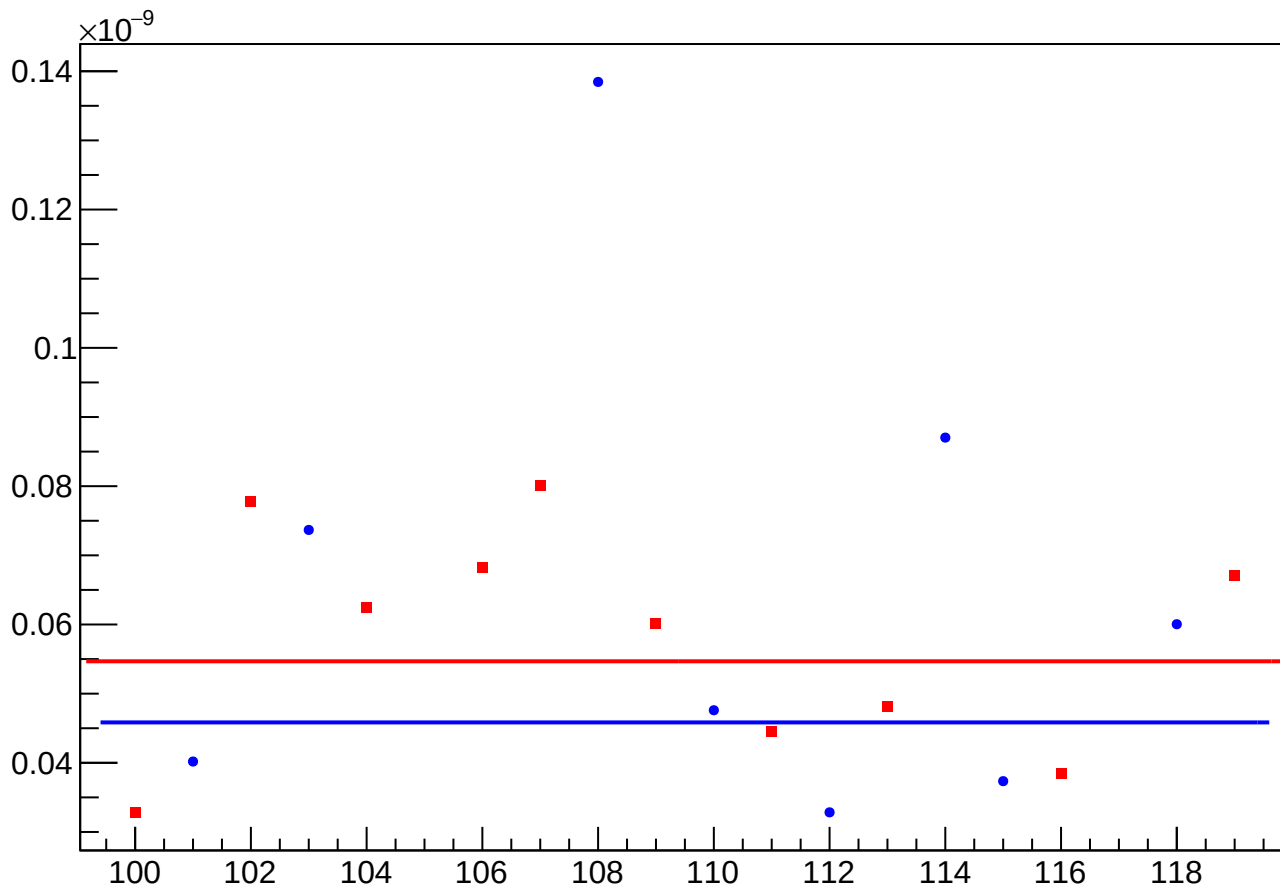
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 11.5/17

- sign 0.000+/-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  $\chi^2/\text{NDF}$ : 589230.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 305669.5/9

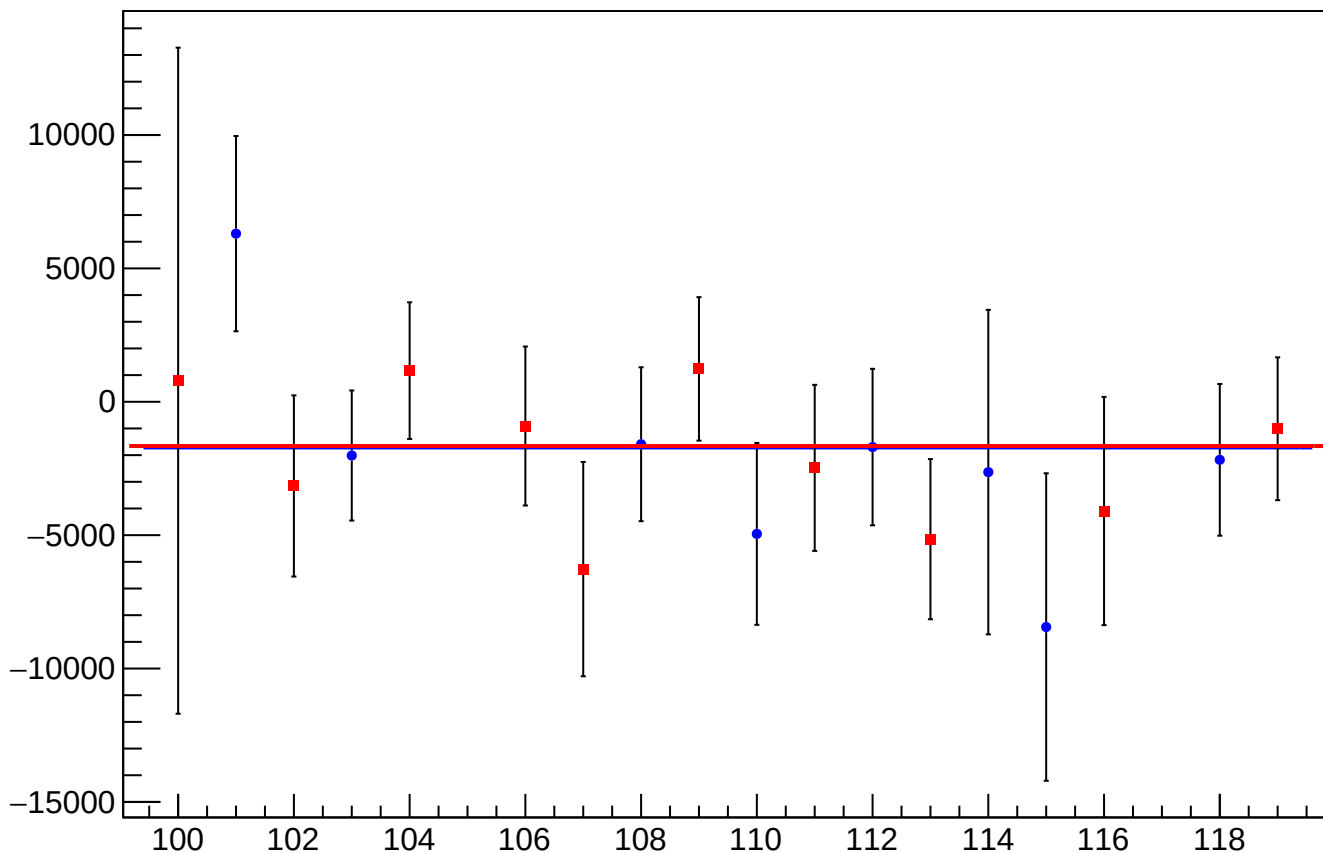
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 964260.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1711.321+/-1157.739  $\chi^2/\text{NDF}$ : 7.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1658.452+/-1017.133  $\chi^2/\text{NDF}$ : 5.8/9

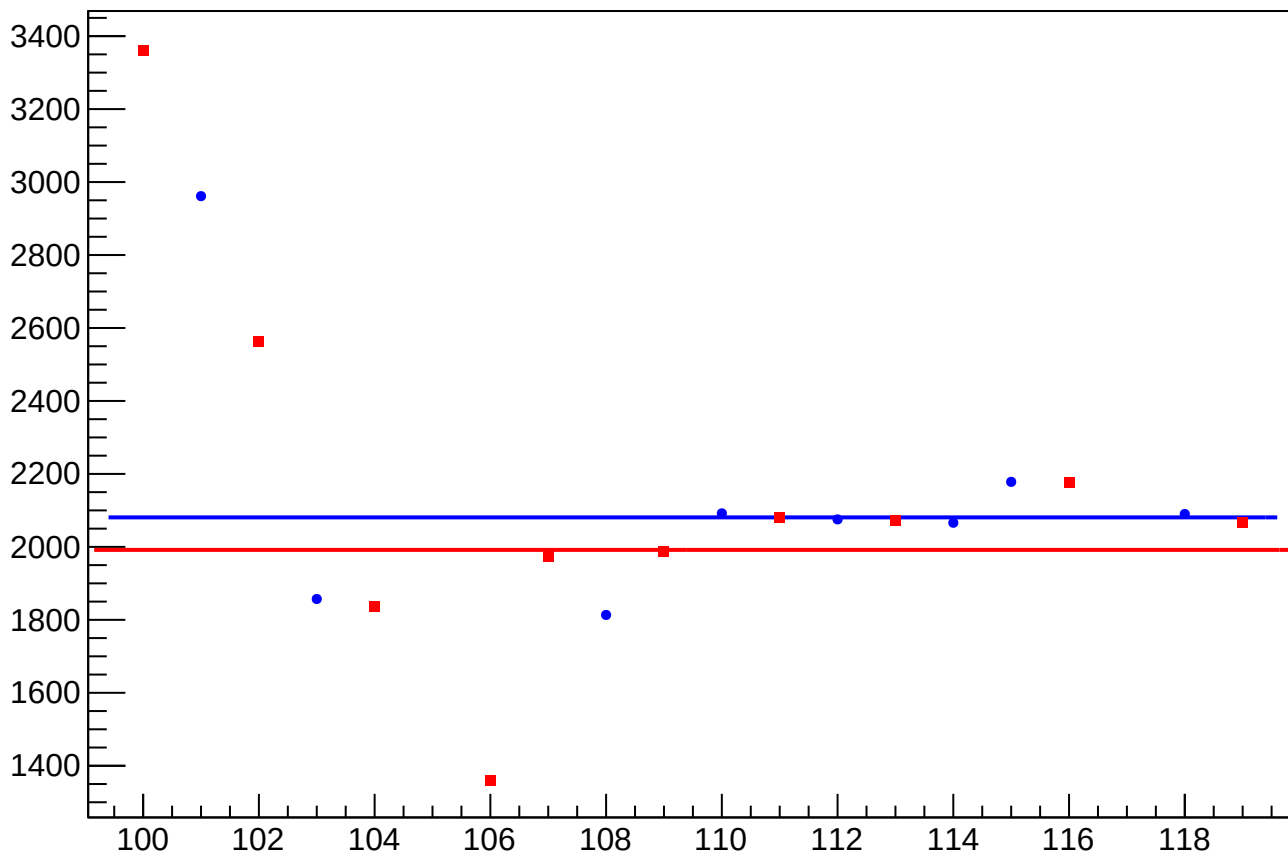
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1681.483+/-764.124  $\chi^2/\text{NDF}$ : 12.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2080.862 $\pm$ 0.819  $\chi^2$ /NDF: 150466.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1991.726 $\pm$ 0.719  $\chi^2$ /NDF: 185797.6/9

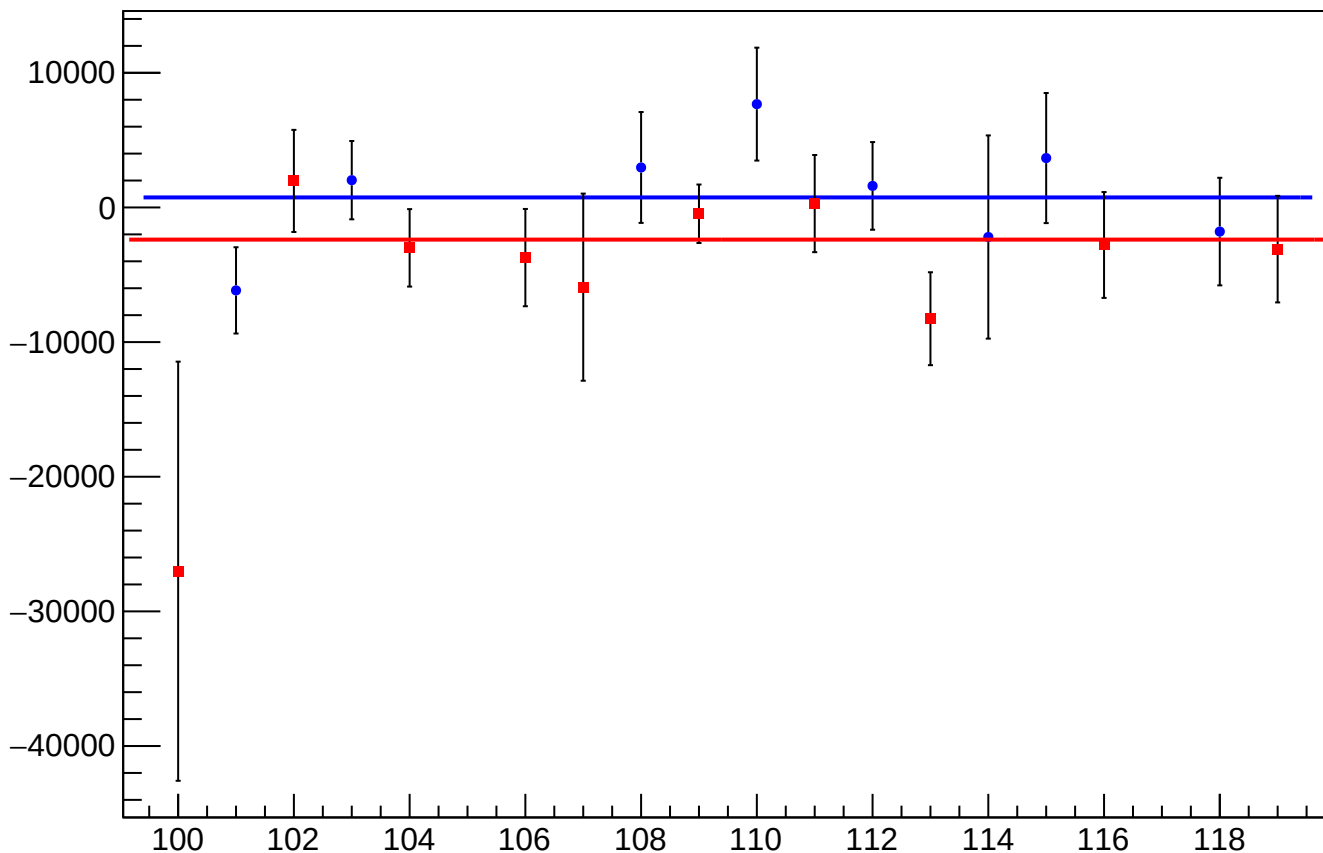
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2030.555 $\pm$ 0.540  $\chi^2$ /NDF: 342955.2/17

- 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: 744.823+/-1349.630  $\chi^2/\text{NDF}$ : 8.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2388.689+/-1122.840  $\chi^2/\text{NDF}$ : 8.5/9

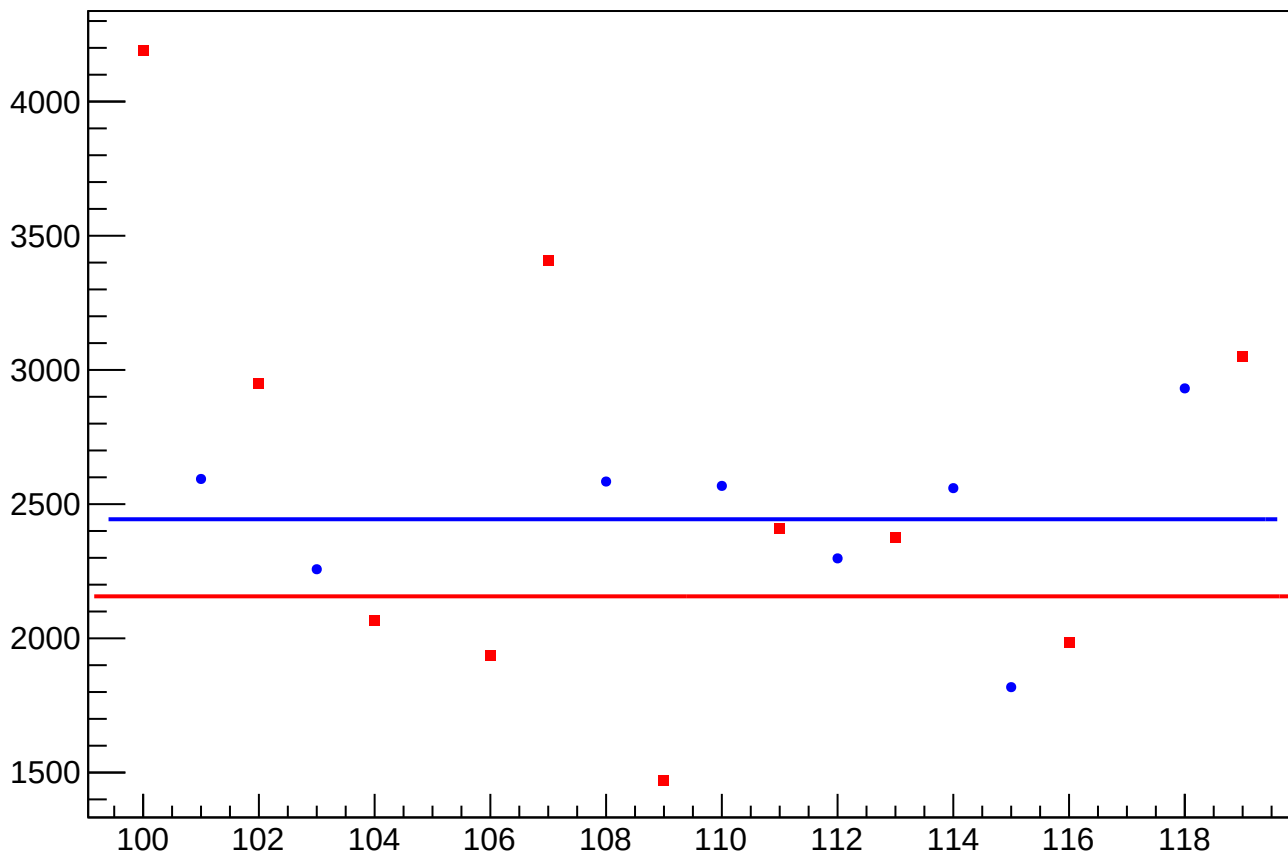
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1106.959+/-863.172  $\chi^2/\text{NDF}$ : 20.6/17

- 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: 2443.709+/-0.954  $\chi^2/\text{NDF}$ : 84491.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2156.527+/-0.794  $\chi^2/\text{NDF}$ : 519072.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

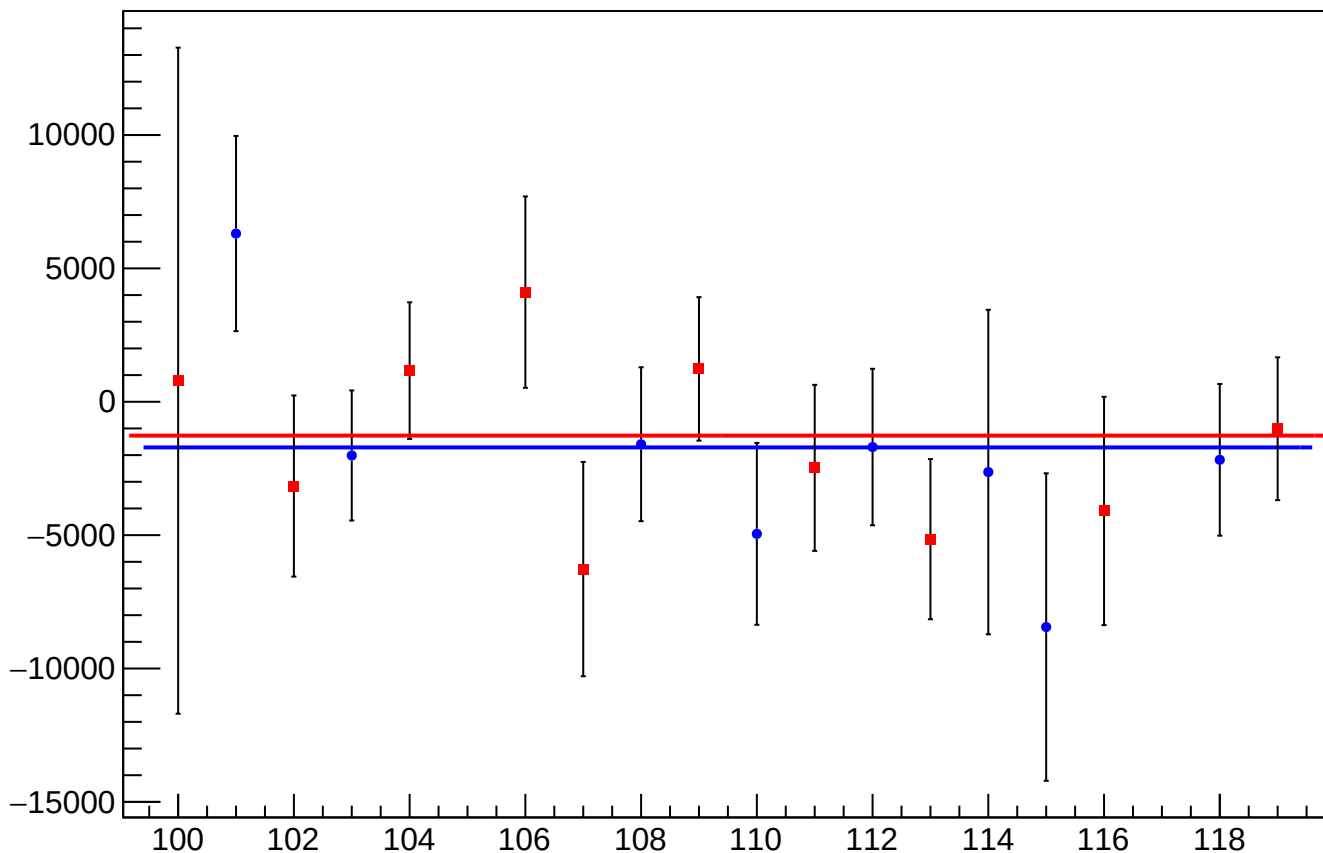
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2273.996+/-0.610  $\chi^2/\text{NDF}$ : 657079.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1711.088+/-1157.739  $\chi^2/\text{NDF}$ : 7.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1268.338+/-1036.010  $\chi^2/\text{NDF}$ : 8.2/9

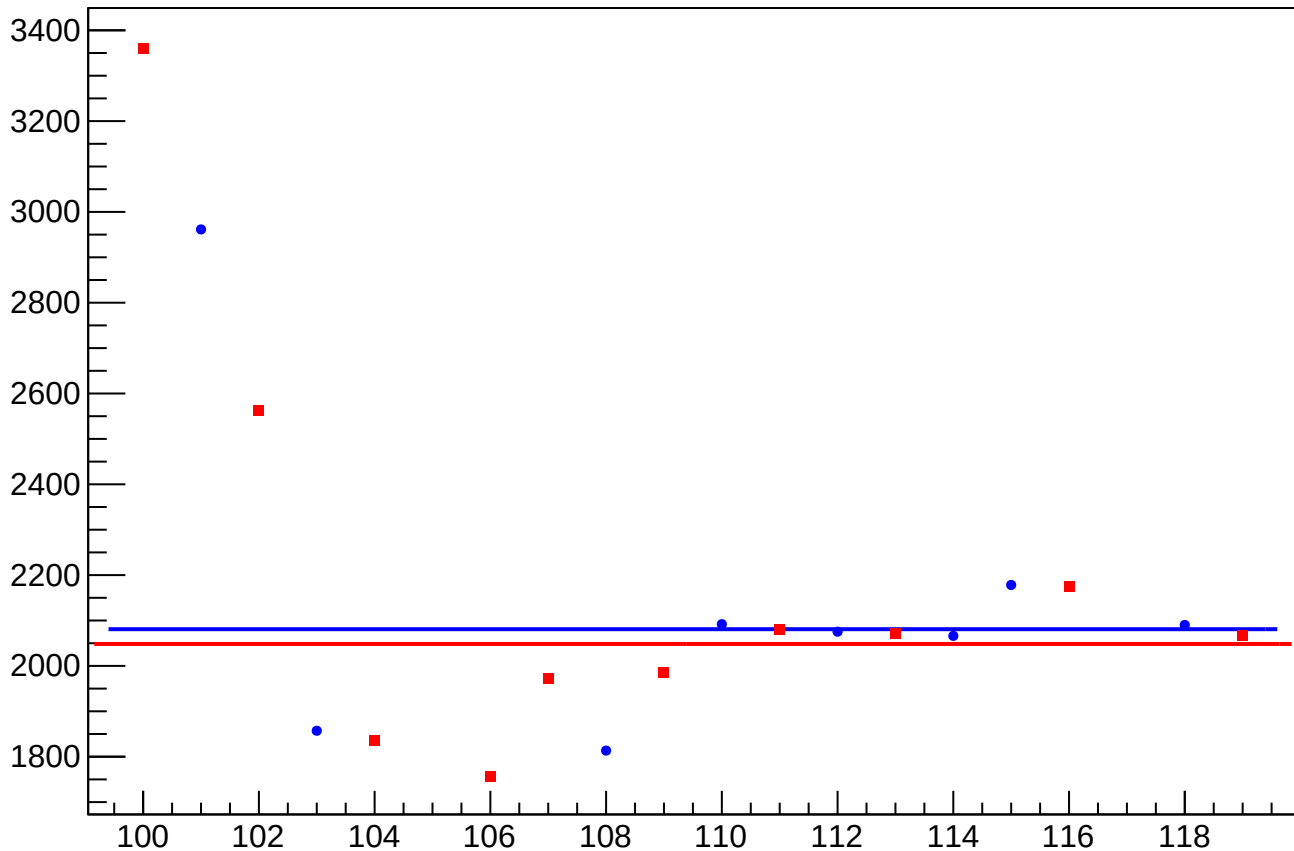
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1465.221+/-772.032  $\chi^2/\text{NDF}$ : 15.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2080.862+/-0.819  $\chi^2/\text{NDF}$ : 150467.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2048.321+/-0.733  $\chi^2/\text{NDF}$ : 98828.1/9

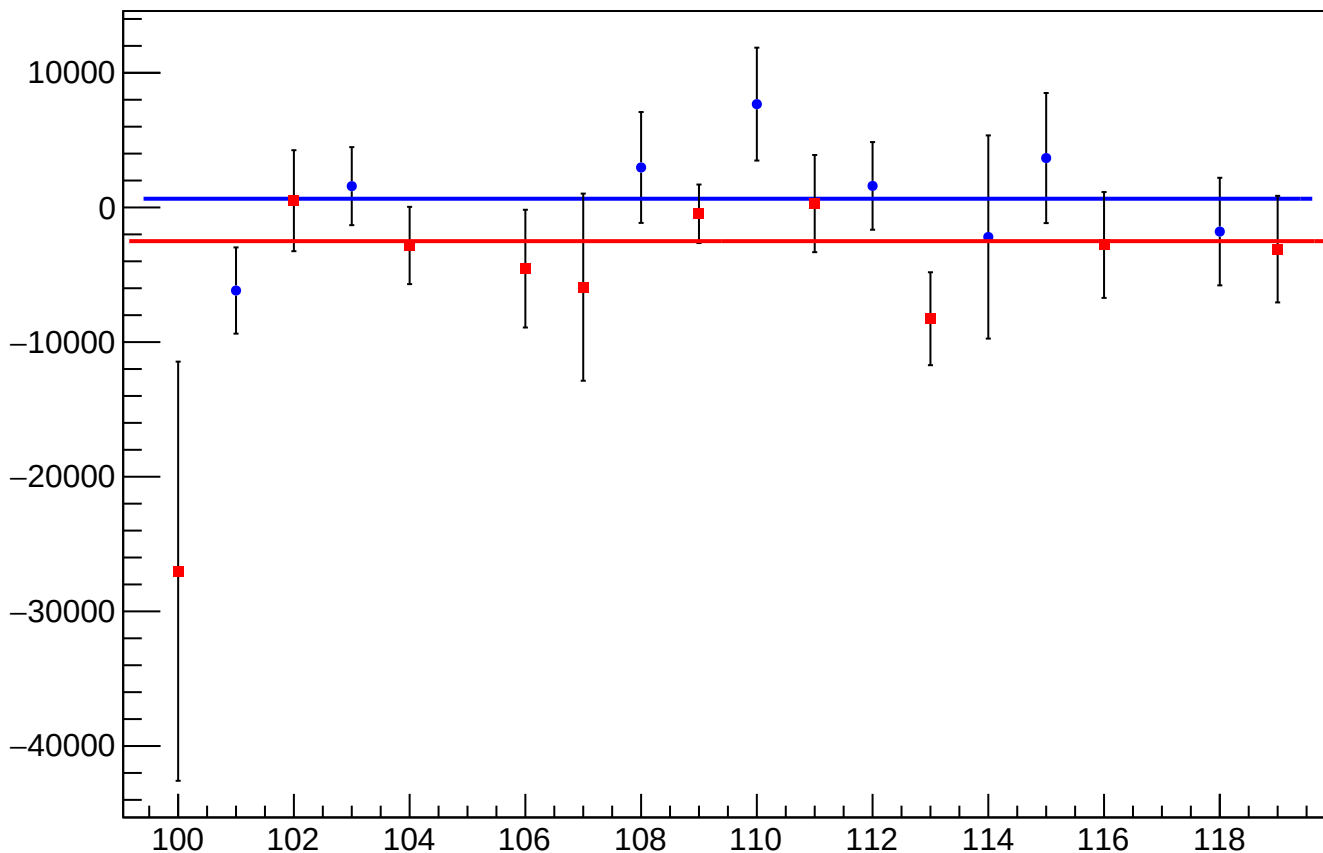
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2062.791+/-0.546  $\chi^2/\text{NDF}$ : 250172.5/17

- 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: 647.952+/-1348.506  $\chi^2/\text{NDF}$ : 8.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2501.480+/-1138.855  $\chi^2/\text{NDF}$ : 7.9/9

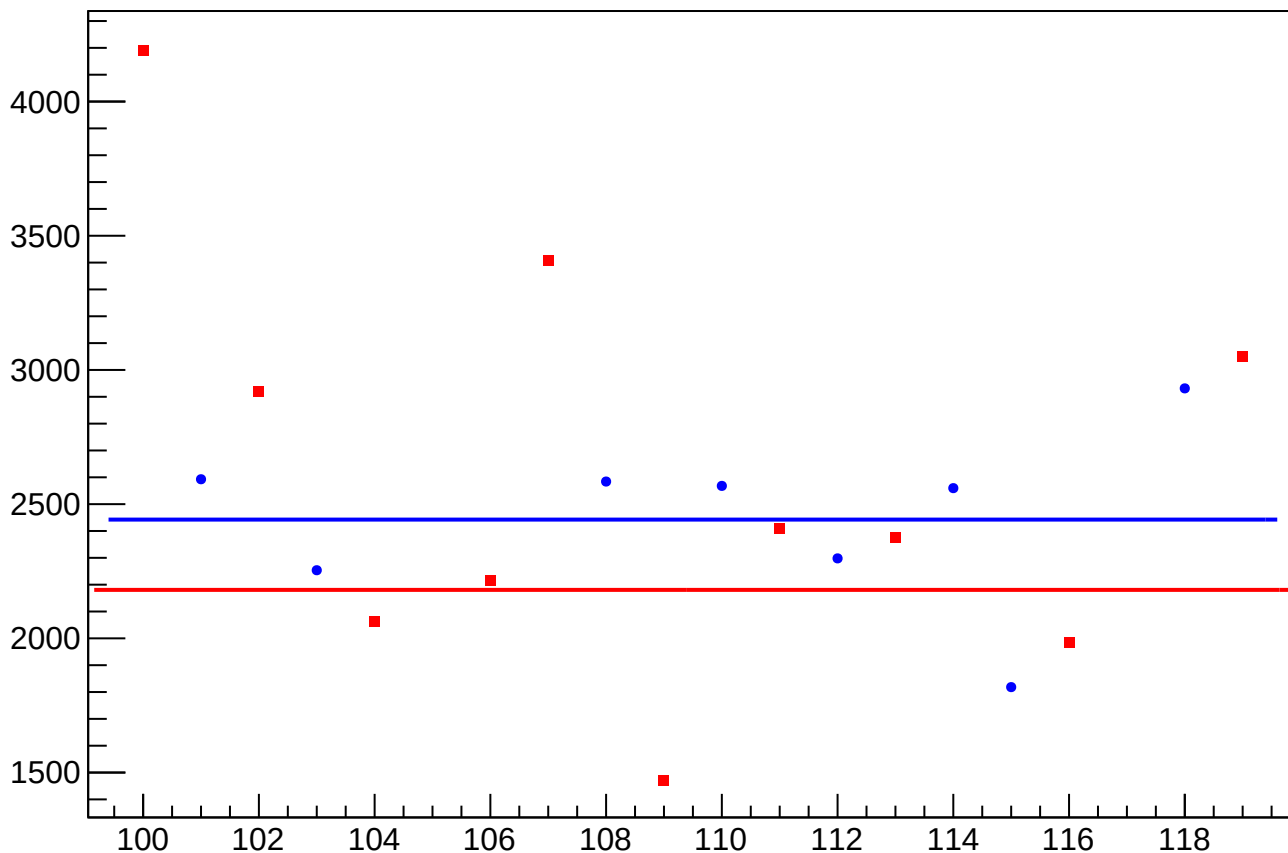
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1190.346+/-870.082  $\chi^2/\text{NDF}$ : 19.8/17

- 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: 2442.476+/-0.954  $\chi^2/\text{NDF}$ : 84805.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2180.577+/-0.805  $\chi^2/\text{NDF}$ : 506820.4/9

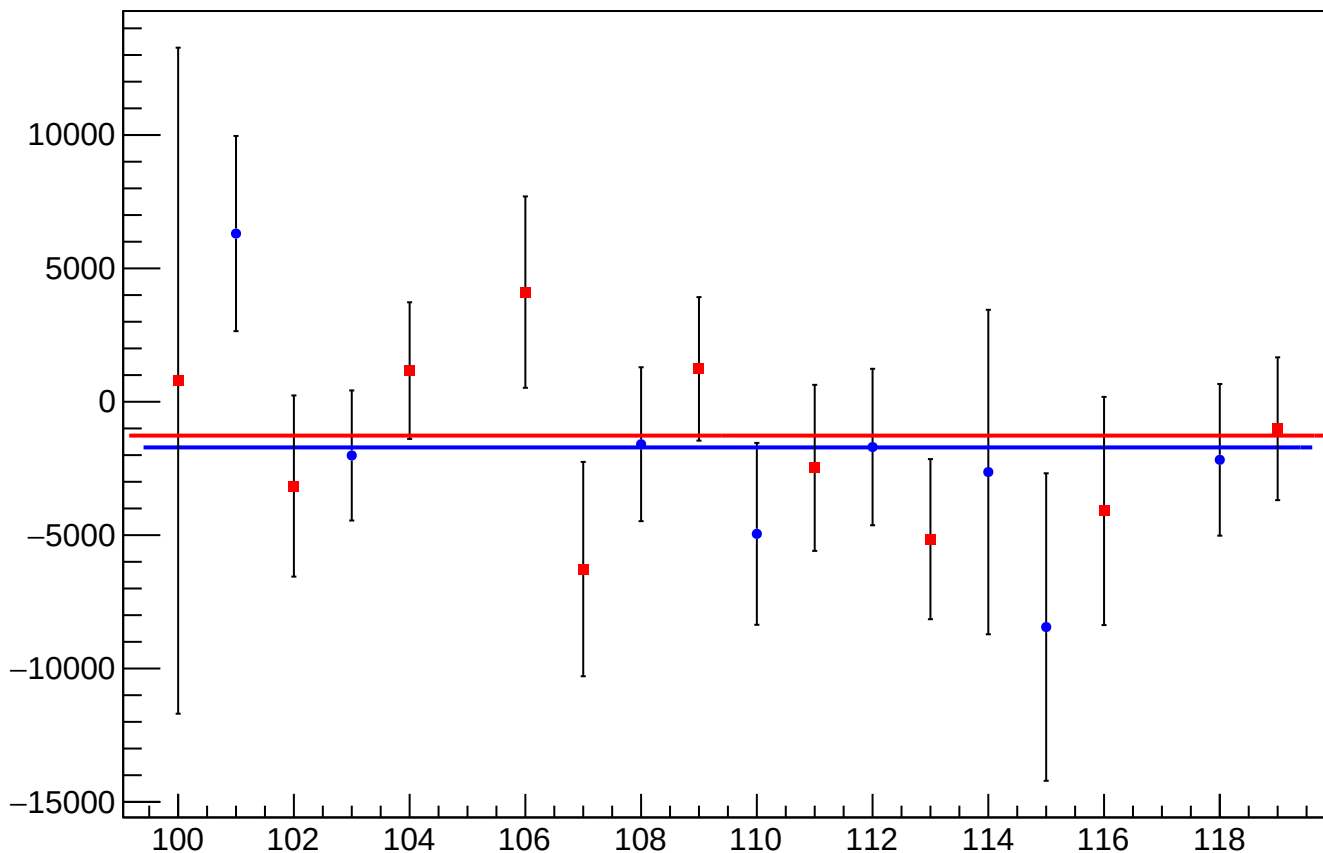
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2289.608+/-0.615  $\chi^2/\text{NDF}$ : 635658.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1711.088 $\pm$ 1157.739  $\chi^2$ /NDF: 7.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1268.338 $\pm$ 1036.010  $\chi^2$ /NDF: 8.2/9

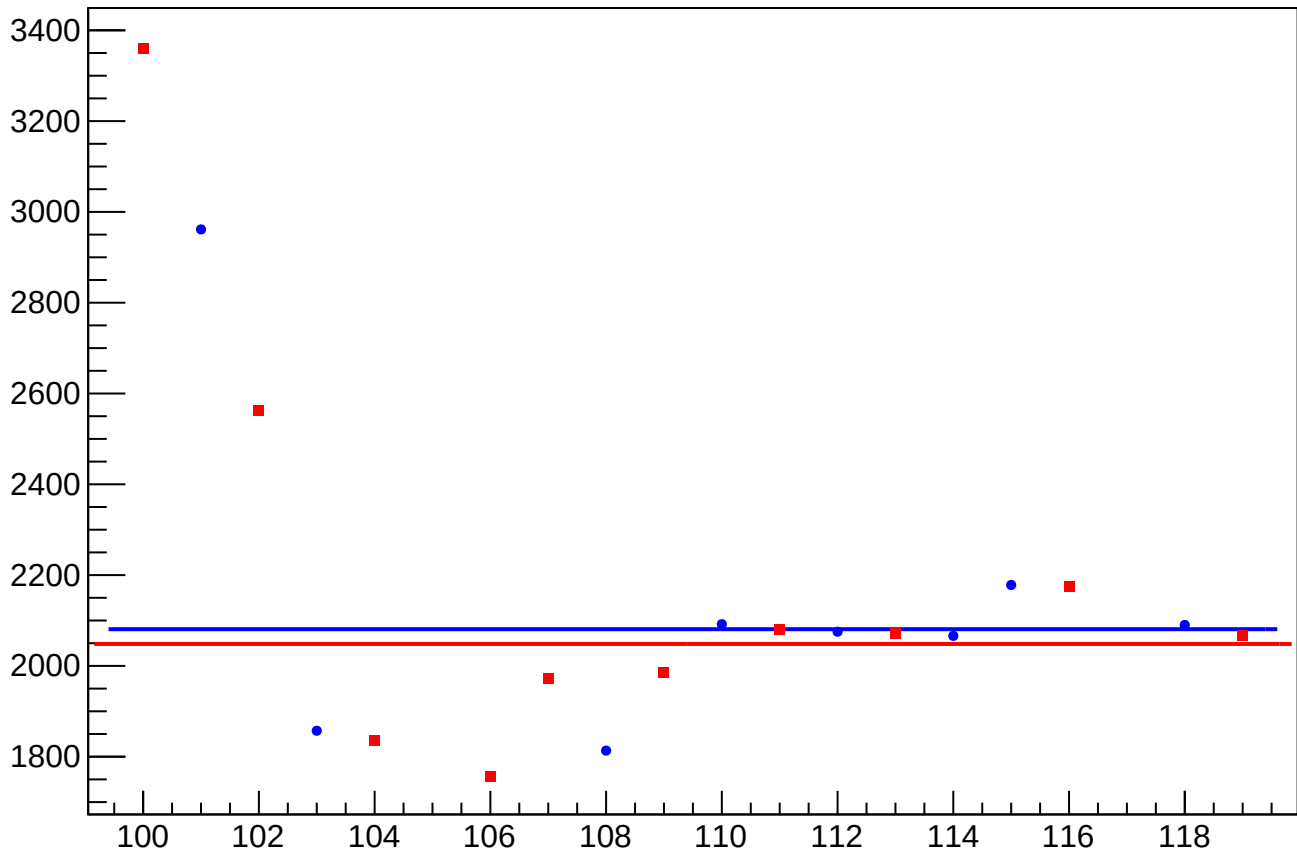
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1465.221 $\pm$ 772.032  $\chi^2$ /NDF: 15.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2080.862 $\pm$ 0.819  $\chi^2$ /NDF: 150467.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2048.321 $\pm$ 0.733  $\chi^2$ /NDF: 98828.1/9

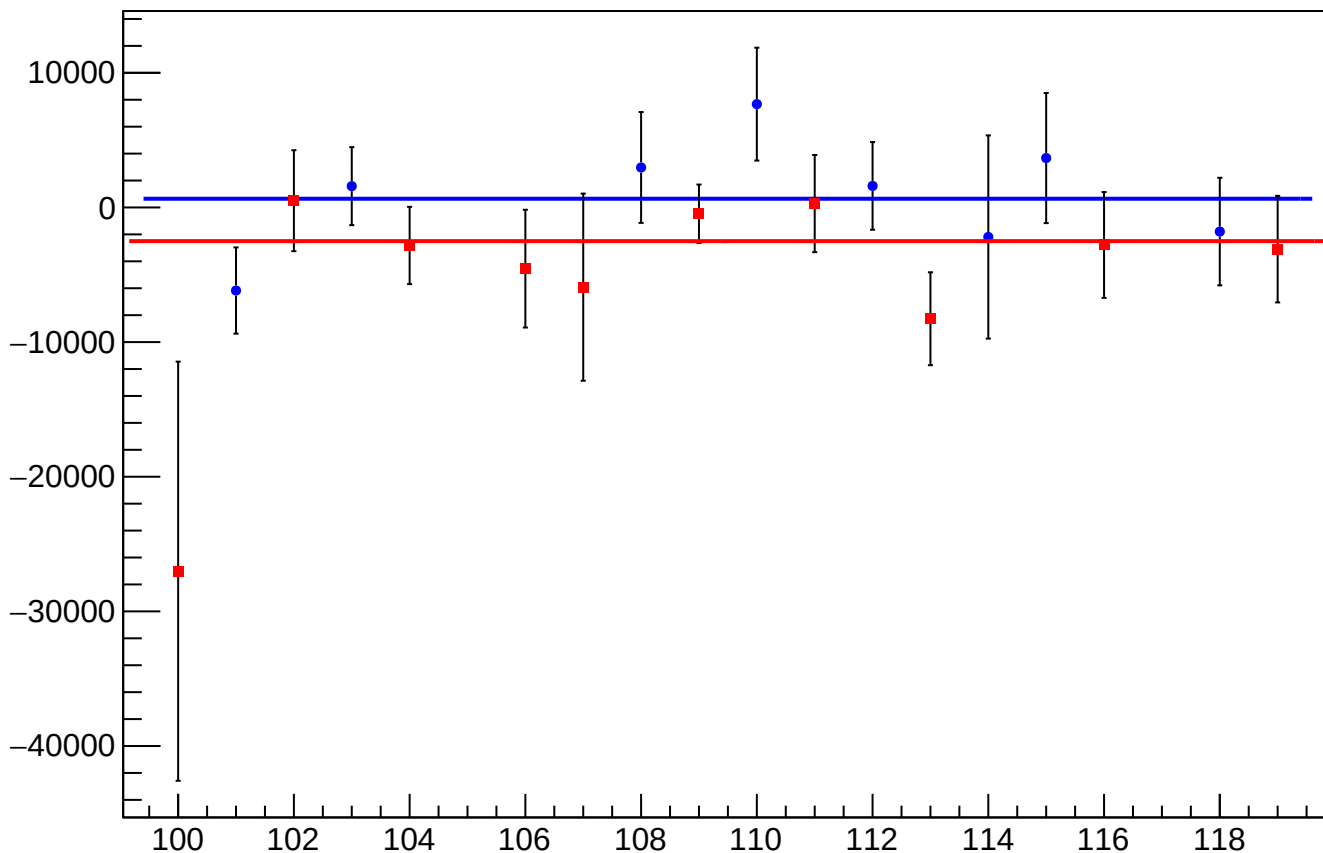
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2062.791 $\pm$ 0.546  $\chi^2$ /NDF: 250172.5/17

- 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: 647.952+/-1348.506  $\chi^2/\text{NDF}$ : 8.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2501.480+/-1138.855  $\chi^2/\text{NDF}$ : 7.9/9

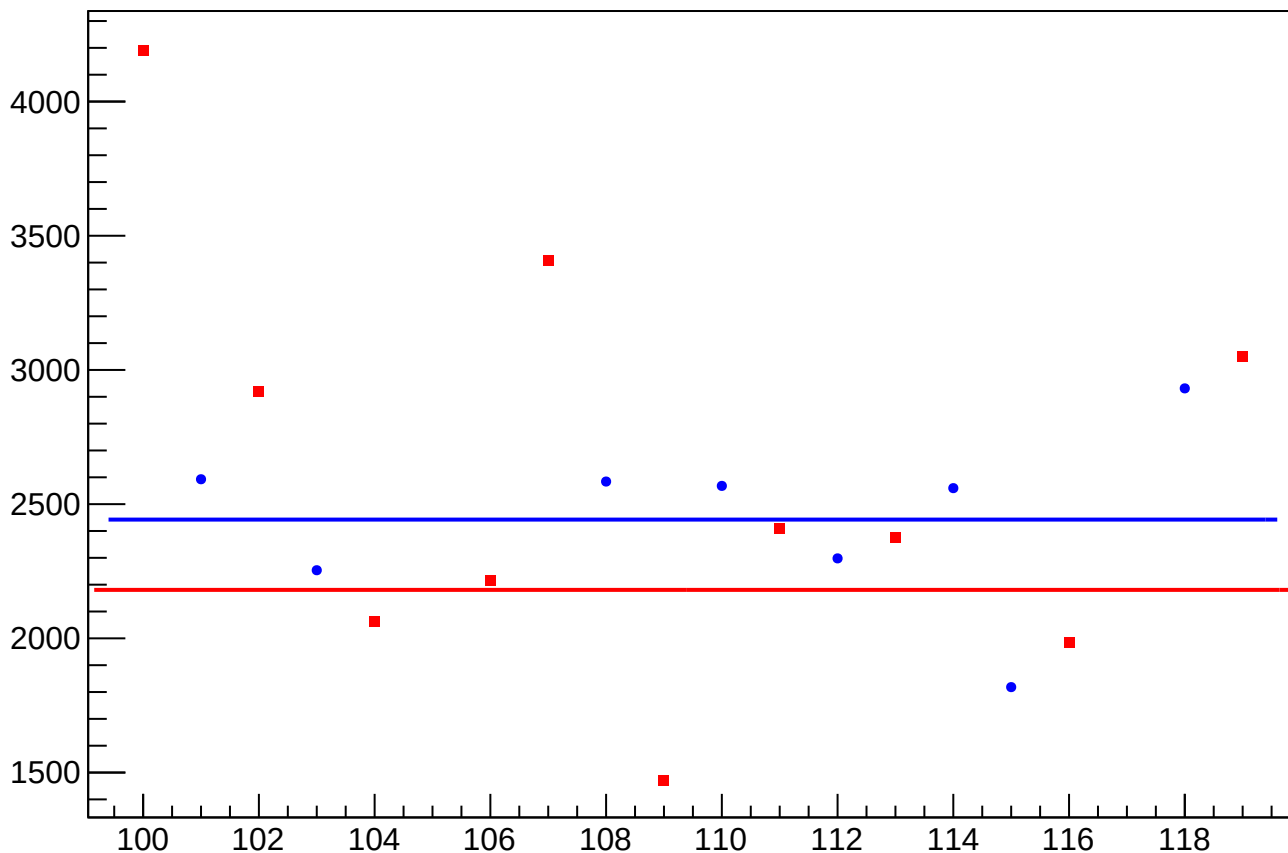
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1190.346+/-870.082  $\chi^2/\text{NDF}$ : 19.8/17

- 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: 2442.476+/-0.954  $\chi^2/\text{NDF}$ : 84805.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2180.577+/-0.805  $\chi^2/\text{NDF}$ : 506820.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

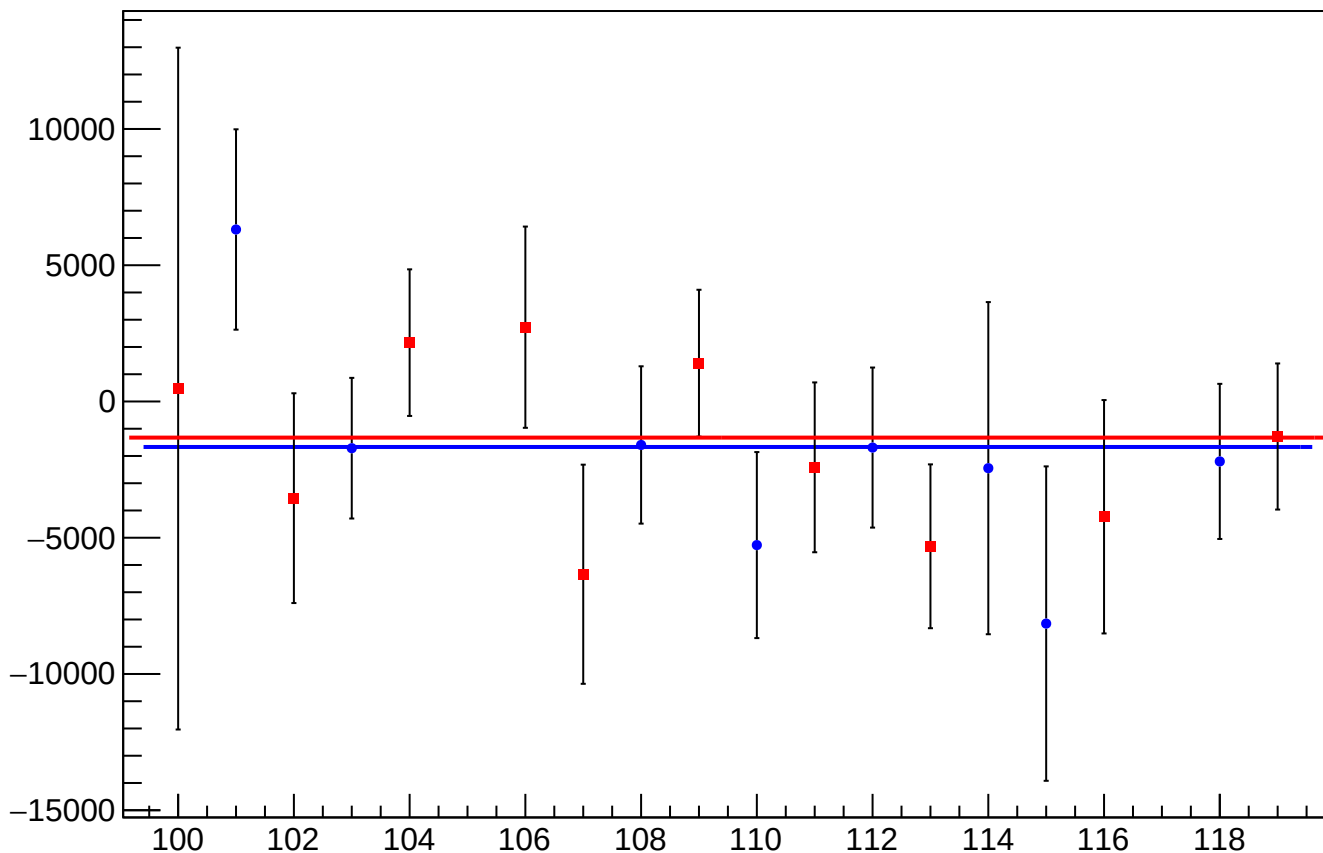
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2289.608+/-0.615  $\chi^2/\text{NDF}$ : 635658.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1669.601 $\pm$ 1173.420  $\chi^2$ /NDF: 7.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1325.618 $\pm$ 1058.602  $\chi^2$ /NDF: 8.2/9

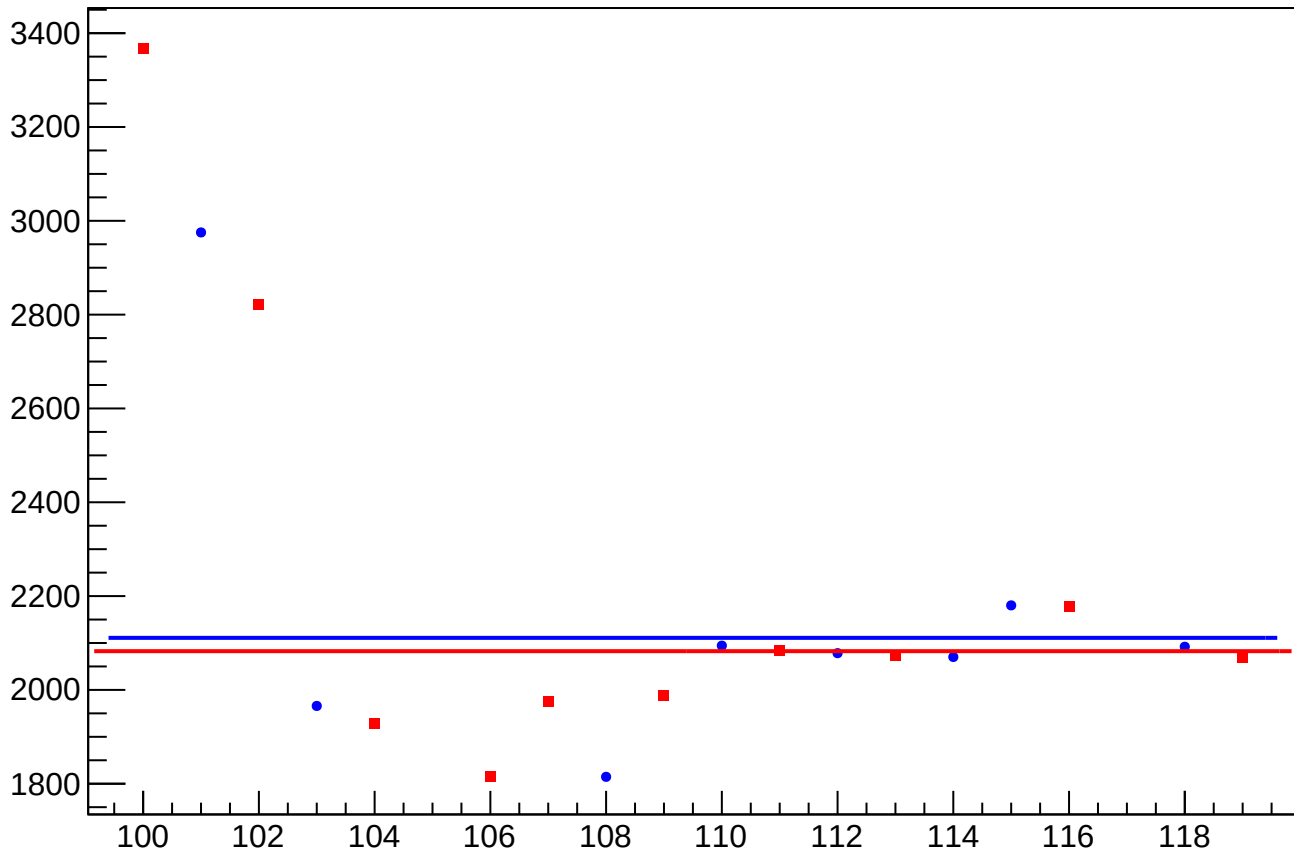
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1479.962 $\pm$ 786.011  $\chi^2$ /NDF: 15.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2110.988 $\pm$ 0.830  $\chi^2$ /NDF: 138659.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2082.578 $\pm$ 0.749  $\chi^2$ /NDF: 116697.5/9

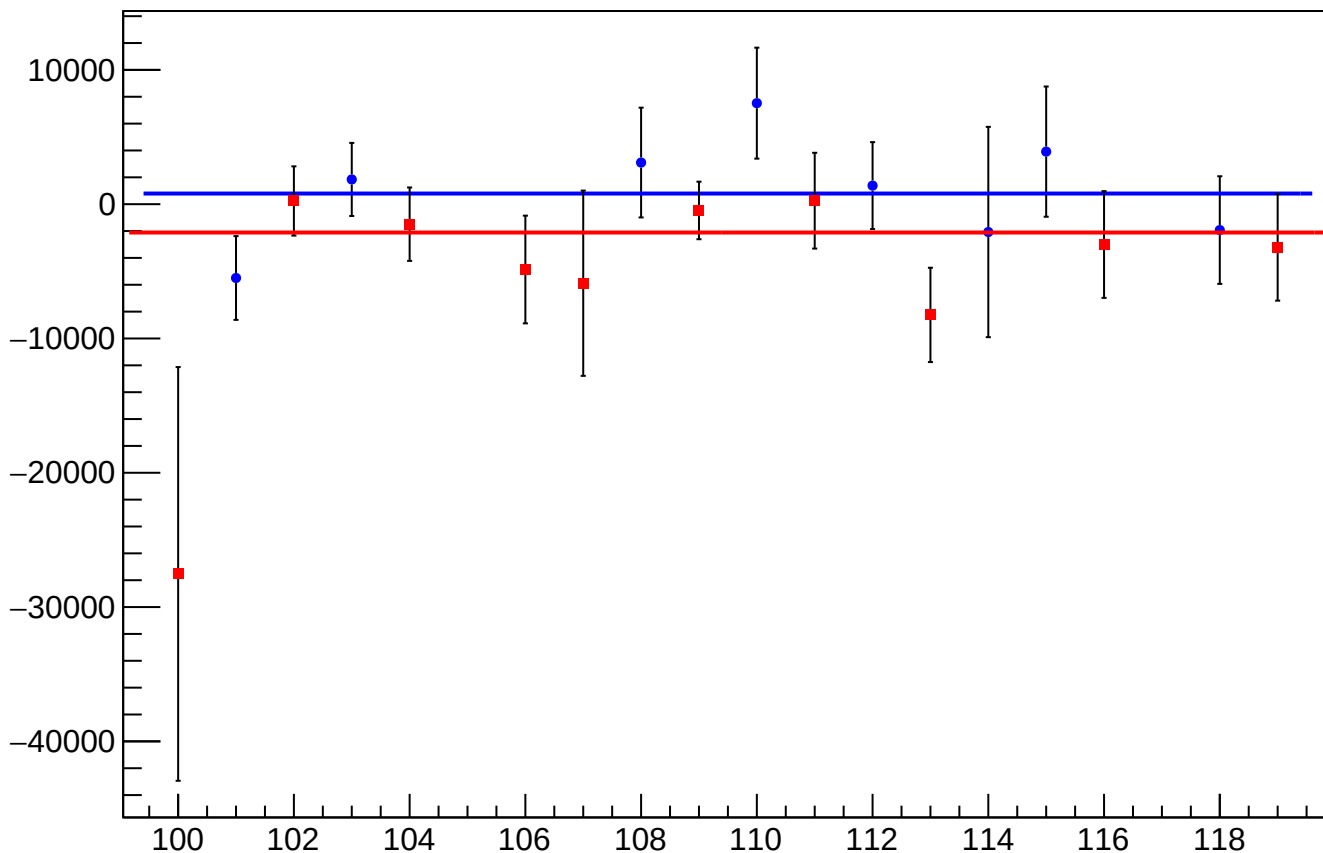
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2095.325 $\pm$ 0.556  $\chi^2$ /NDF: 256002.9/17

- 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: 793.083+/-1321.279  $\chi^2/\text{NDF}$ : 8.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2110.041+/-1068.324  $\chi^2/\text{NDF}$ : 8.6/9

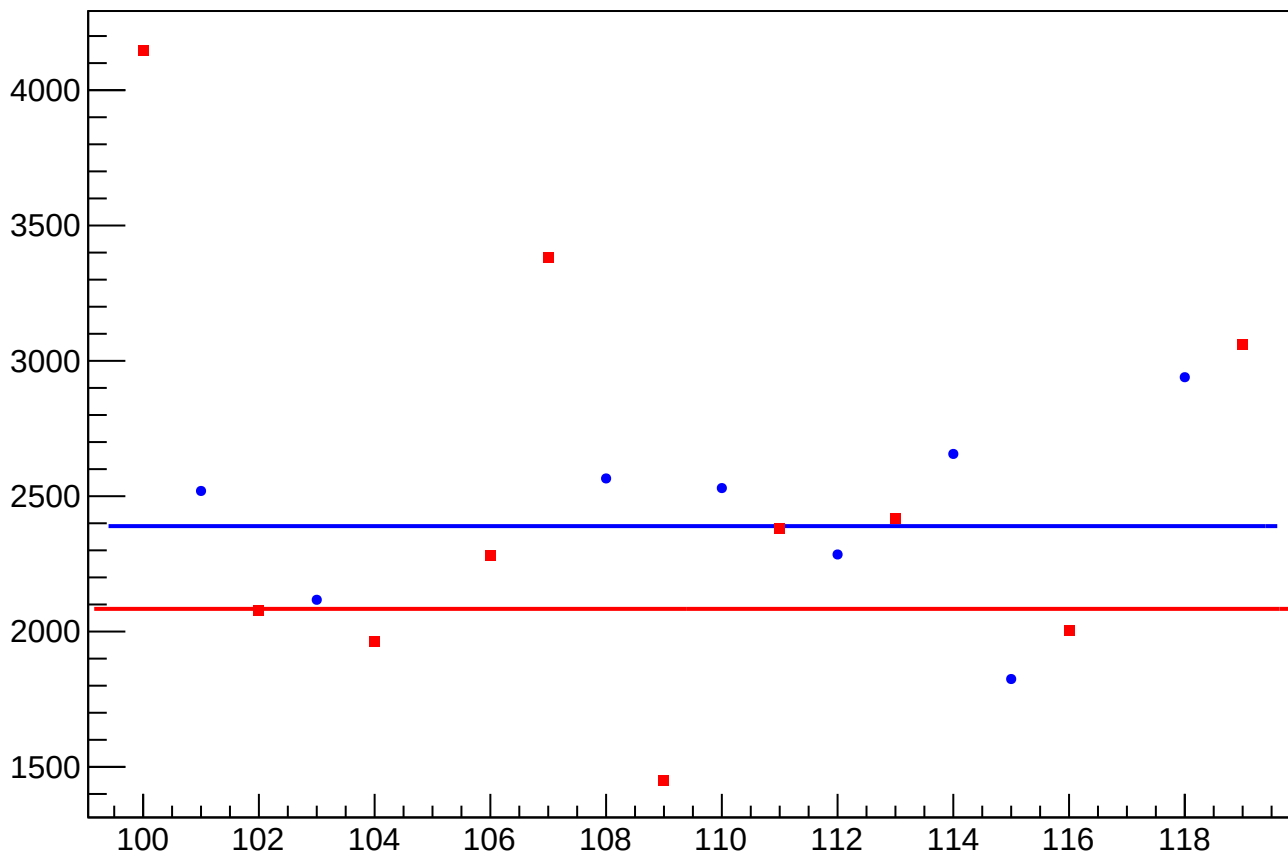
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -962.388+/-830.744  $\chi^2/\text{NDF}$ : 19.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_correction\_rms vs Slug



Right In: 2389.506 $\pm$ 0.934  $\chi^2$ /NDF: 98758.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2083.772 $\pm$ 0.755  $\chi^2$ /NDF: 444318.8/9

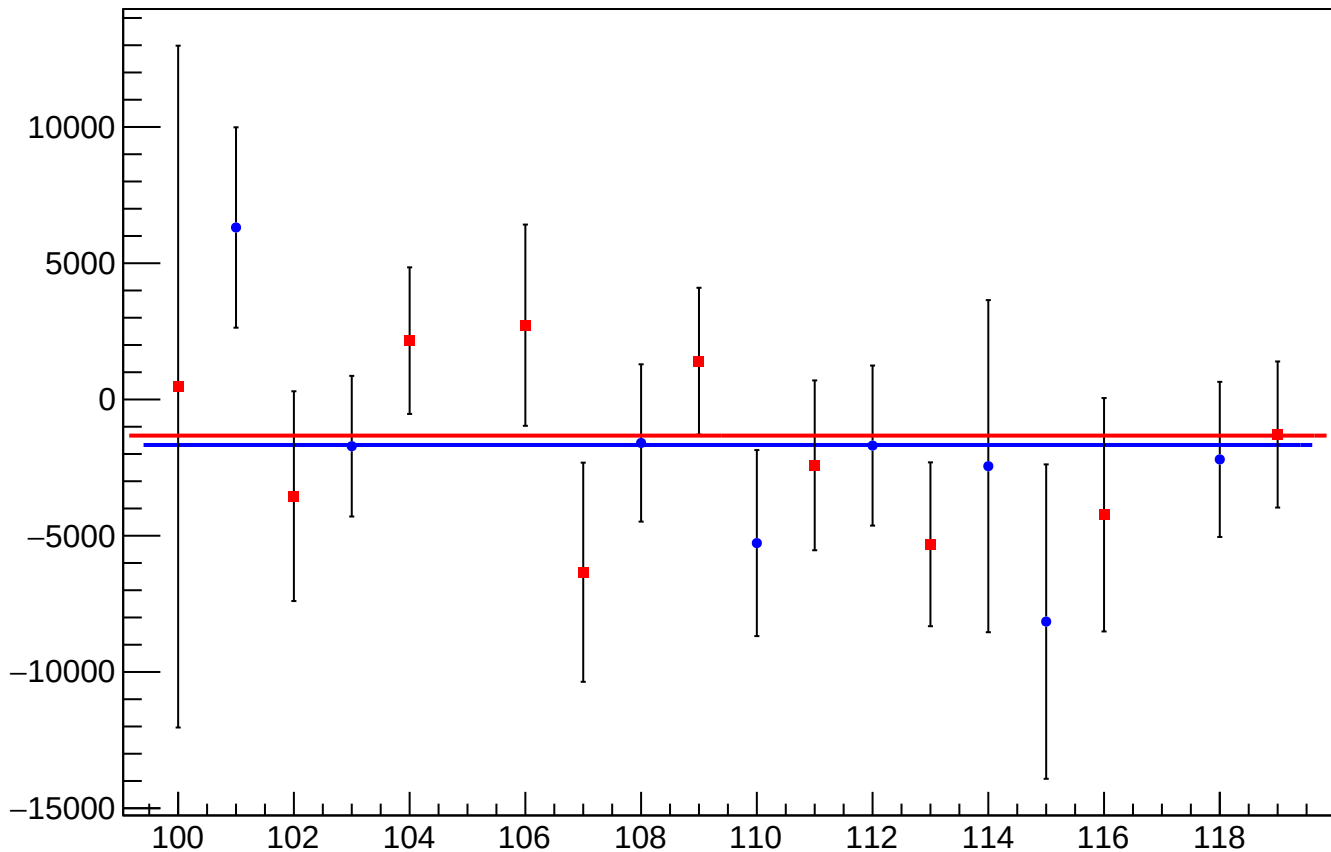
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2204.634 $\pm$ 0.587  $\chi^2$ /NDF: 607830.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1669.594 $\pm$ 1173.420  $\chi^2$ /NDF: 7.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1325.615 $\pm$ 1058.602  $\chi^2$ /NDF: 8.2/9

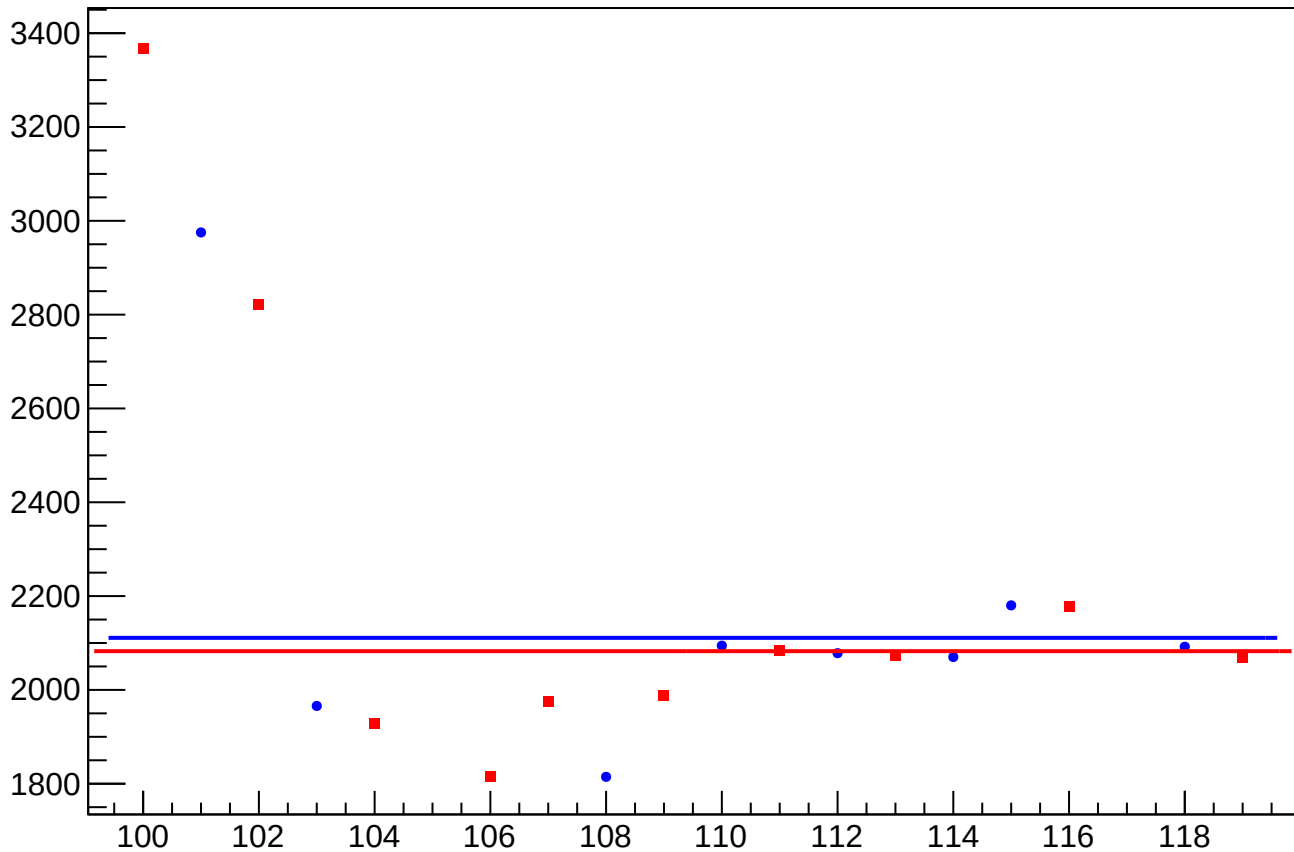
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1479.956 $\pm$ 786.011  $\chi^2$ /NDF: 15.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2110.988 $\pm$ 0.830  $\chi^2$ /NDF: 138659.0/7

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

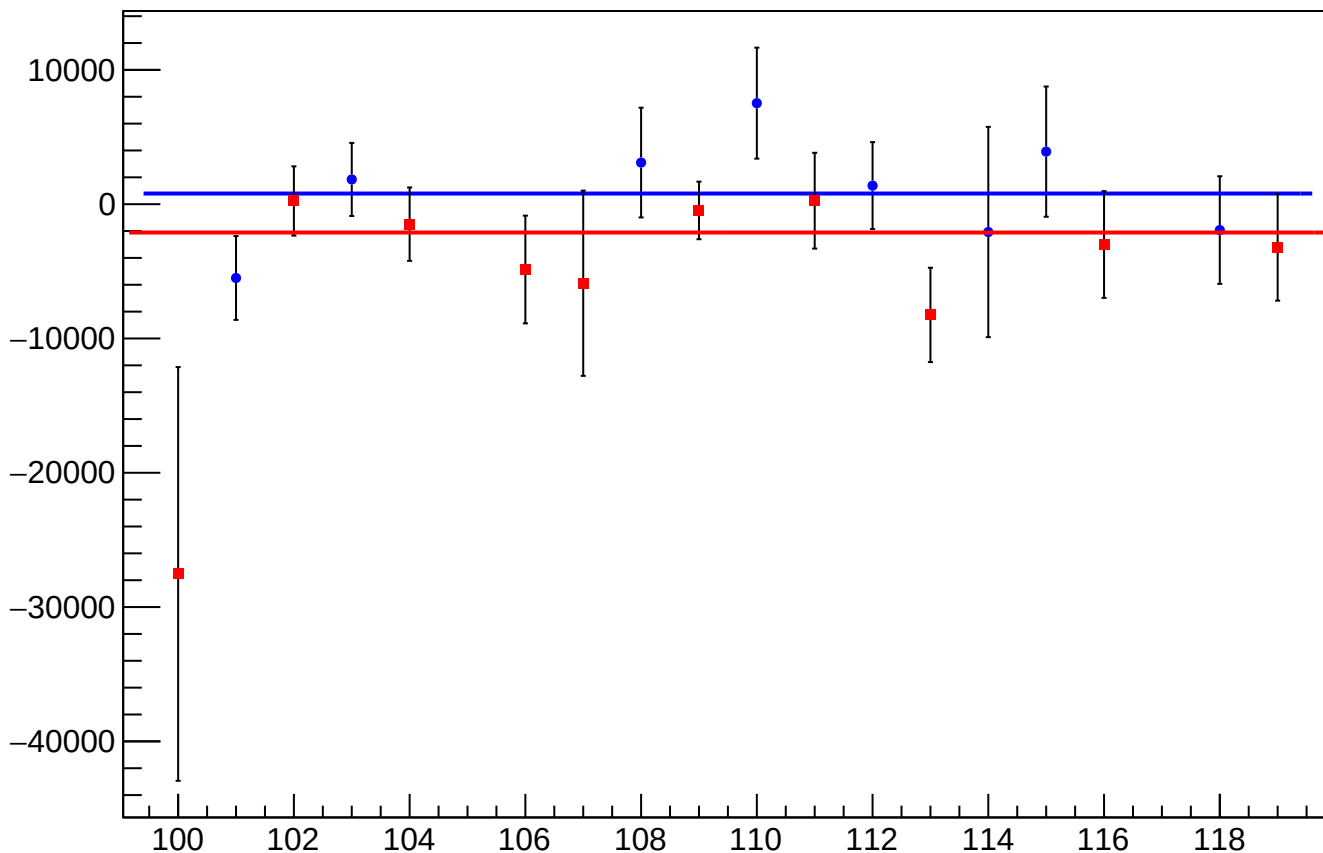
Right Out: 2082.578 $\pm$ 0.749  $\chi^2$ /NDF: 116697.4/9

All: 2095.325 $\pm$ 0.556  $\chi^2$ /NDF: 256002.8/17

- 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: 793.081+/-1321.277  $\chi^2/\text{NDF}$ : 8.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2110.047+/-1068.326  $\chi^2/\text{NDF}$ : 8.6/9

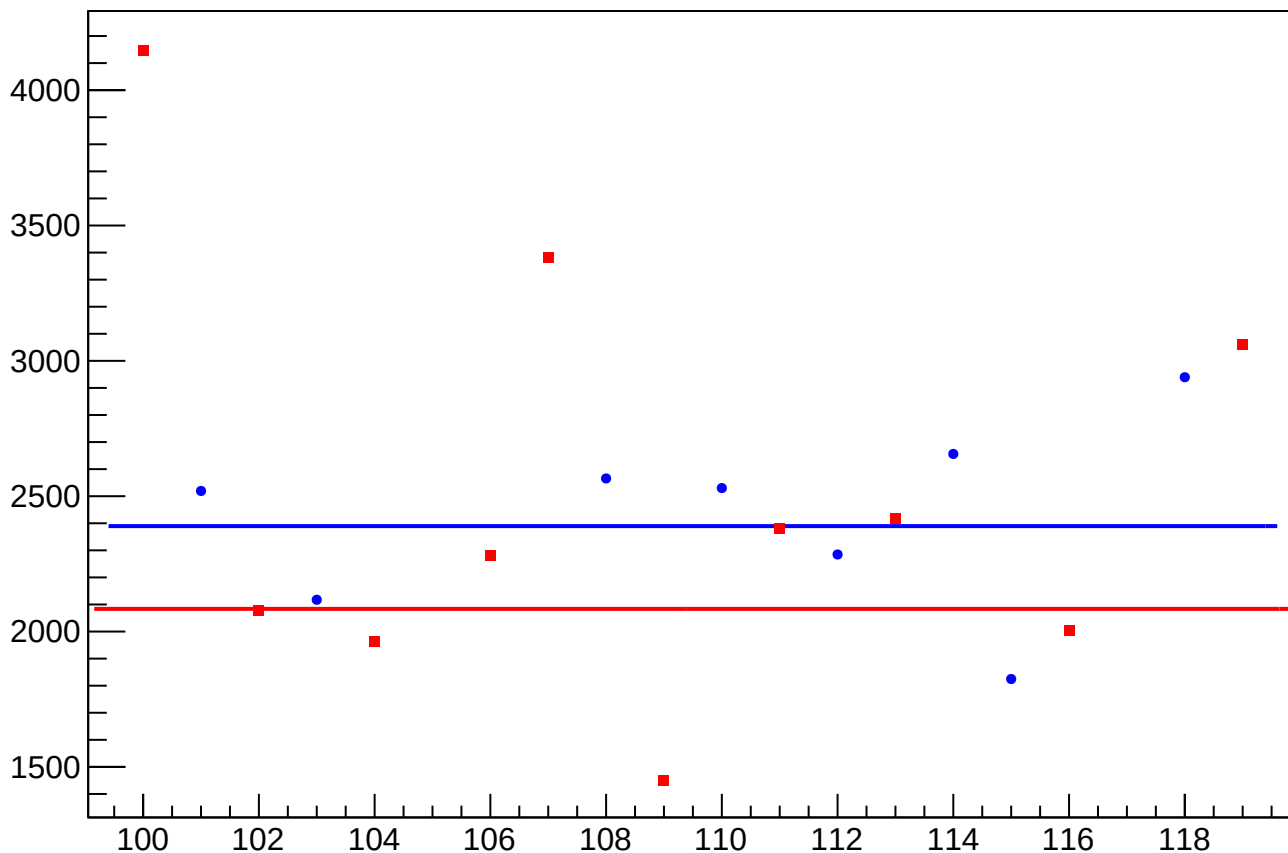
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -962.388+/-830.744  $\chi^2/\text{NDF}$ : 19.7/17

- 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: 2389.503 $\pm$ 0.934  $\chi^2$ /NDF: 98754.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2083.777 $\pm$ 0.755  $\chi^2$ /NDF: 444307.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

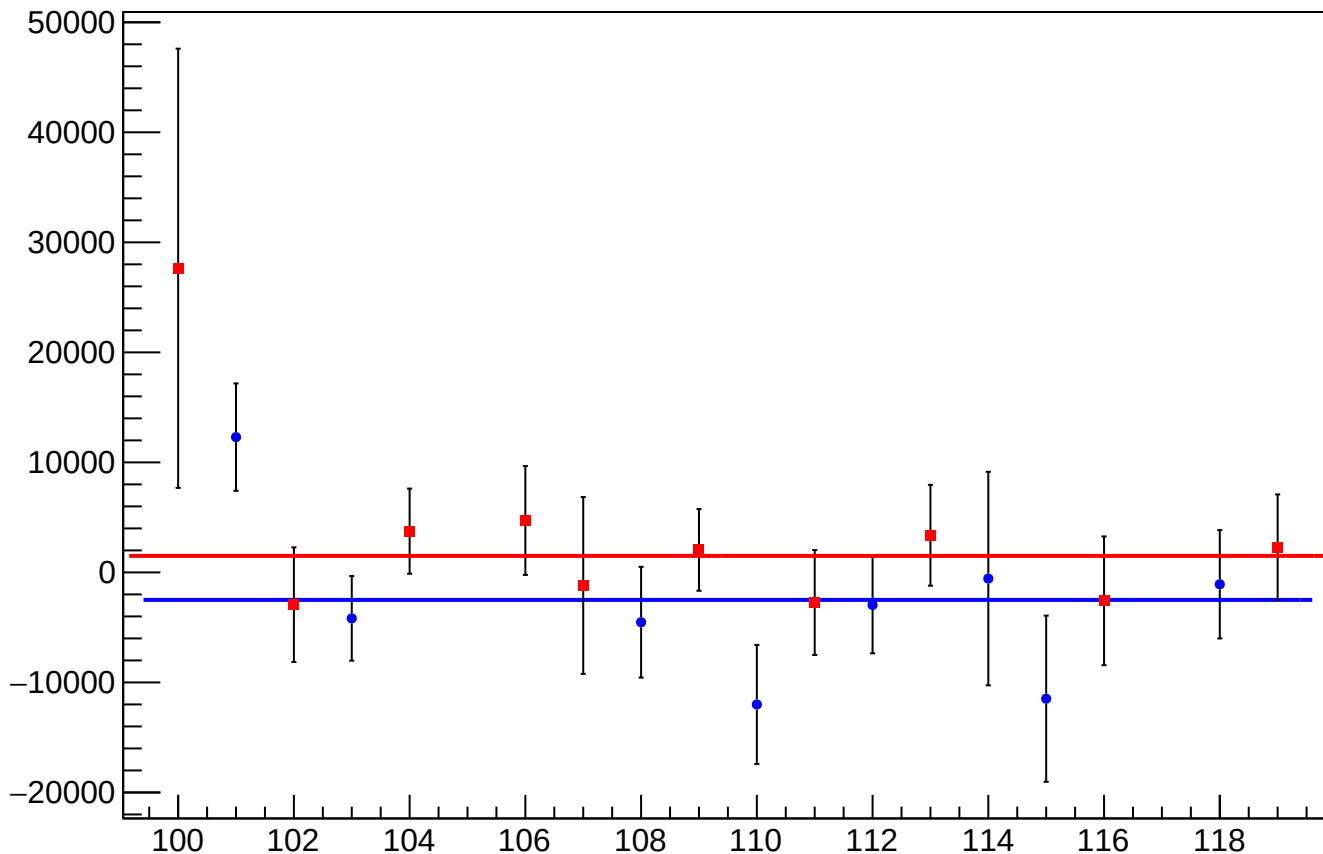
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2204.636 $\pm$ 0.587  $\chi^2$ /NDF: 607810.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -2498.148 $\pm$ 1812.498  $\chi^2$ /NDF: 14.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1502.160 $\pm$ 1582.562  $\chi^2$ /NDF: 4.8/9

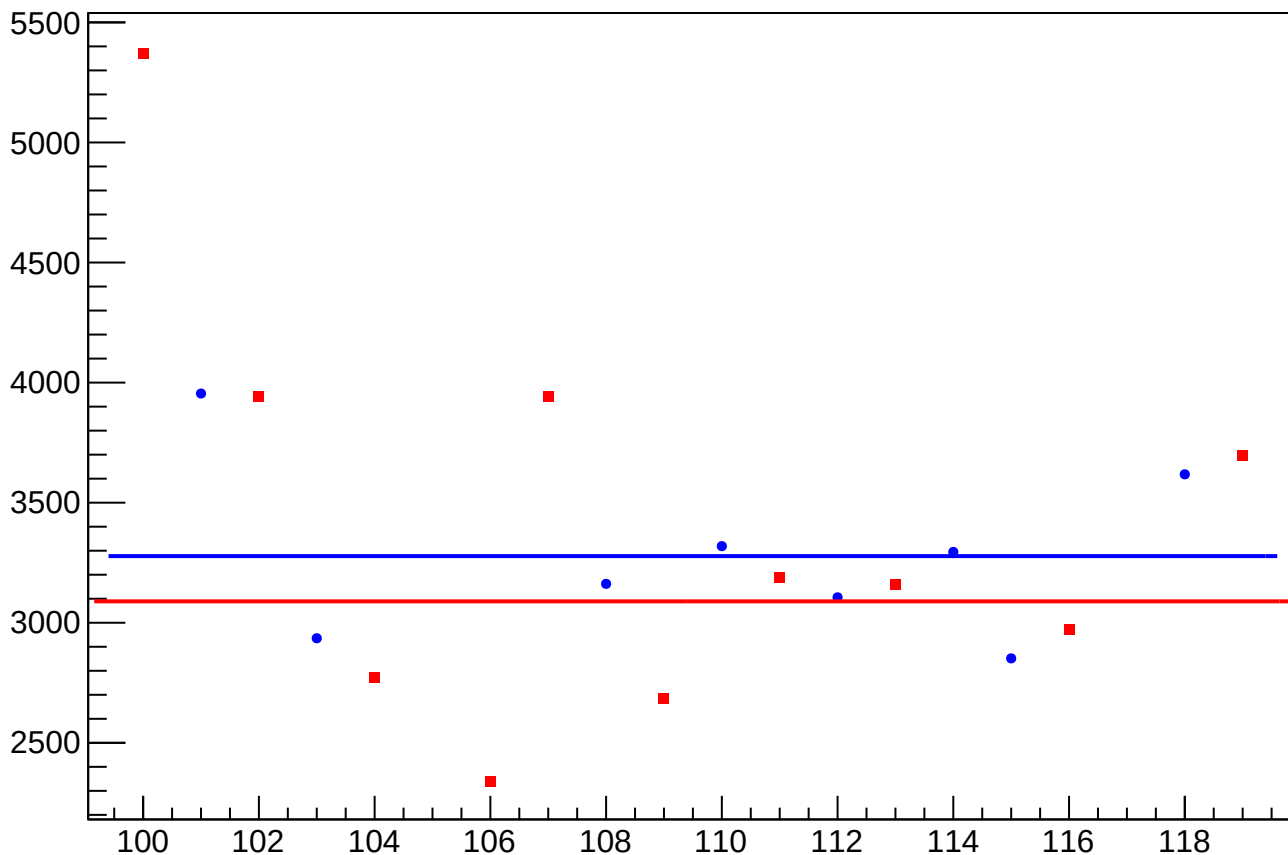
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -228.304 $\pm$ 1192.098  $\chi^2$ /NDF: 21.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 3277.481+/-1.282  $\chi^2/\text{NDF}$ : 74432.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3089.087+/-1.119  $\chi^2/\text{NDF}$ : 219952.5/9

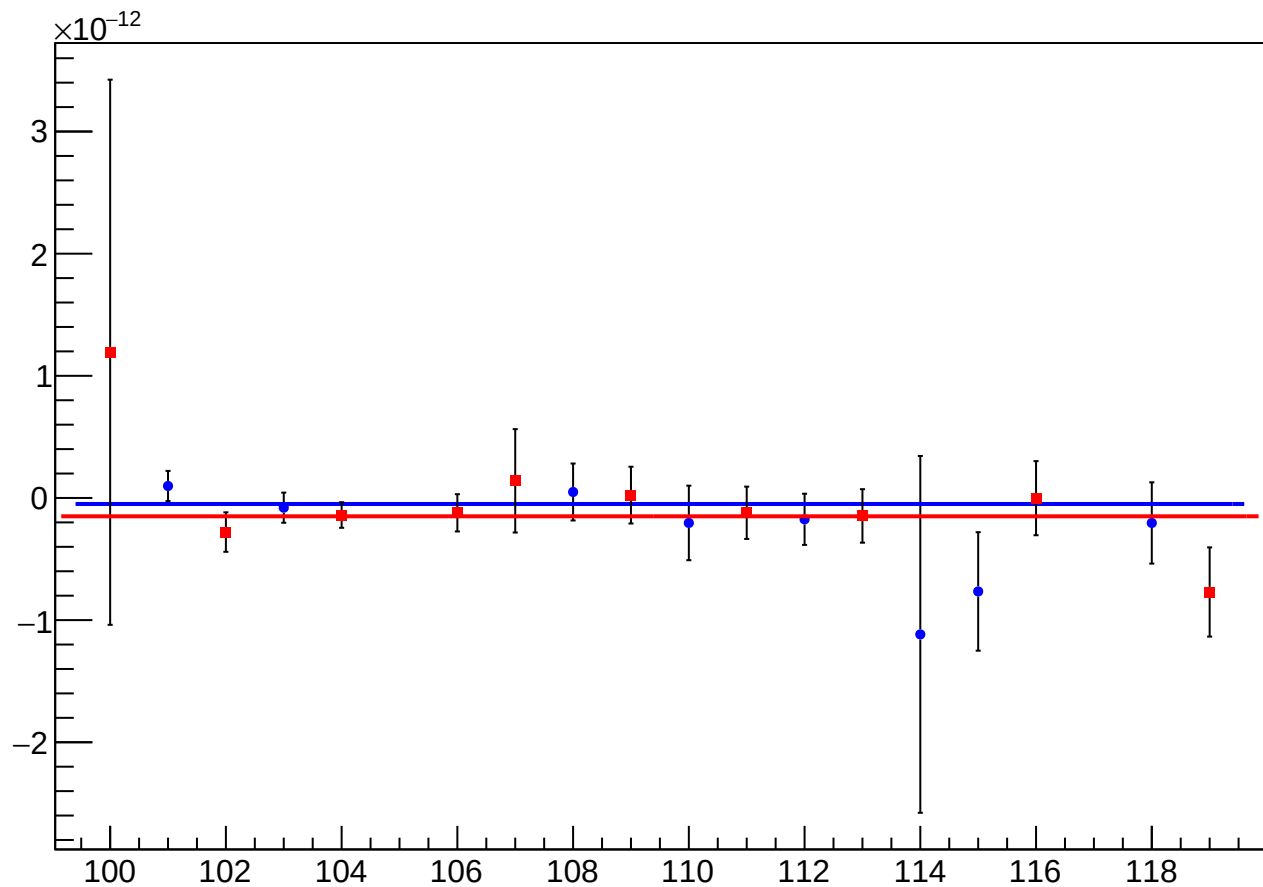
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3170.581+/-0.843  $\chi^2/\text{NDF}$ : 306645.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.2/9

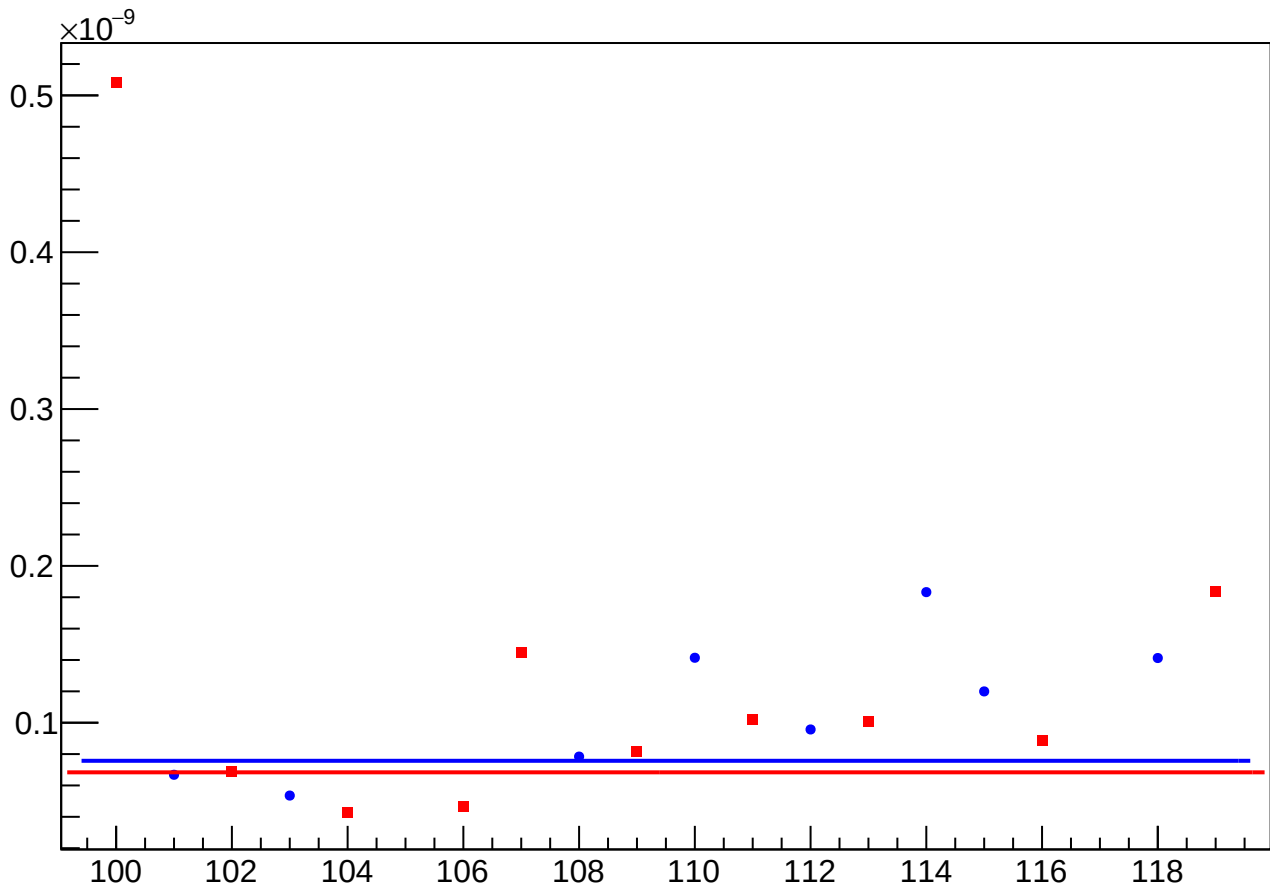
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.6/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 291226.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 613304.0/9

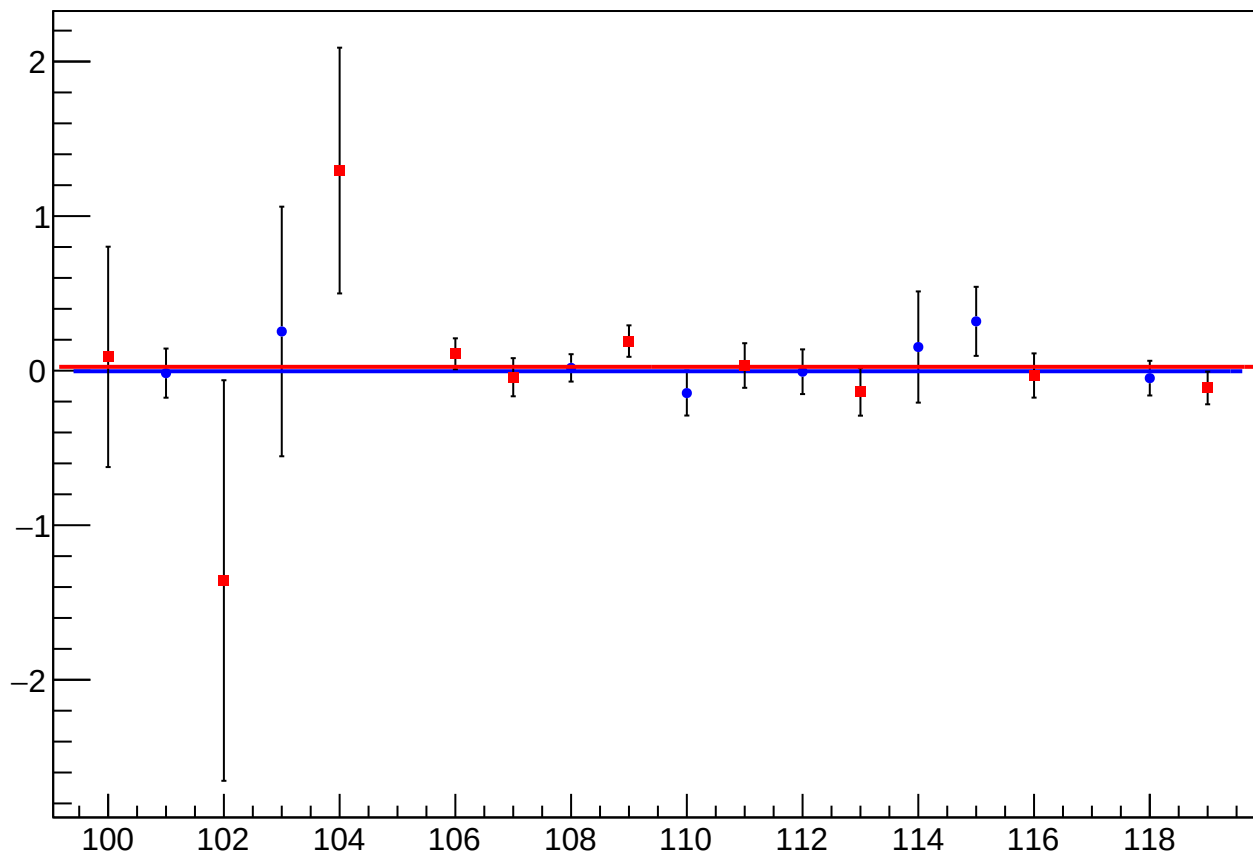
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 916614.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.004 $\pm$ 0.052  $\chi^2$ /NDF: 3.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.025 $\pm$ 0.045  $\chi^2$ /NDF: 10.3/9

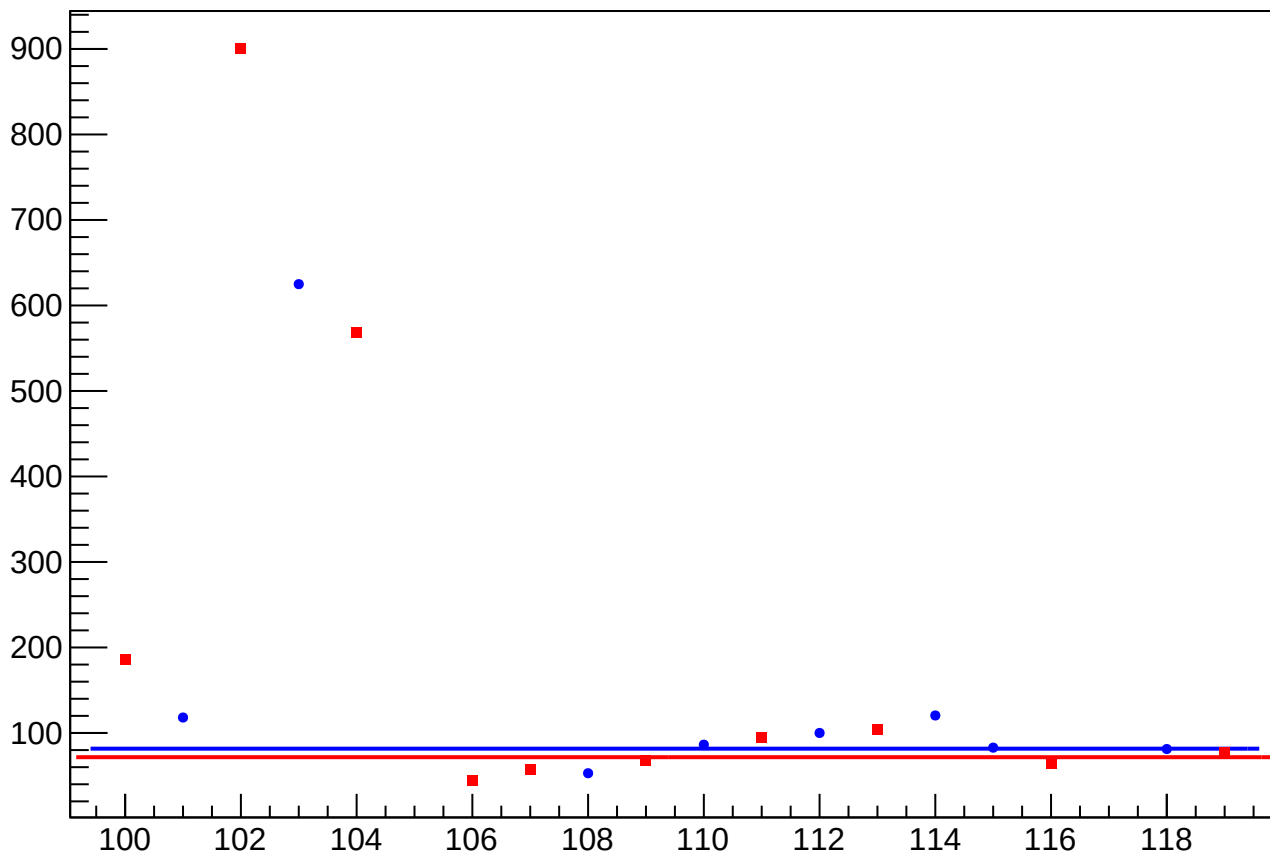
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.013 $\pm$ 0.034  $\chi^2$ /NDF: 14.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 81.654+/-0.037  $\chi^2/\text{NDF}$ : 1278358.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.666+/-0.032  $\chi^2/\text{NDF}$ : 1986428.6/9

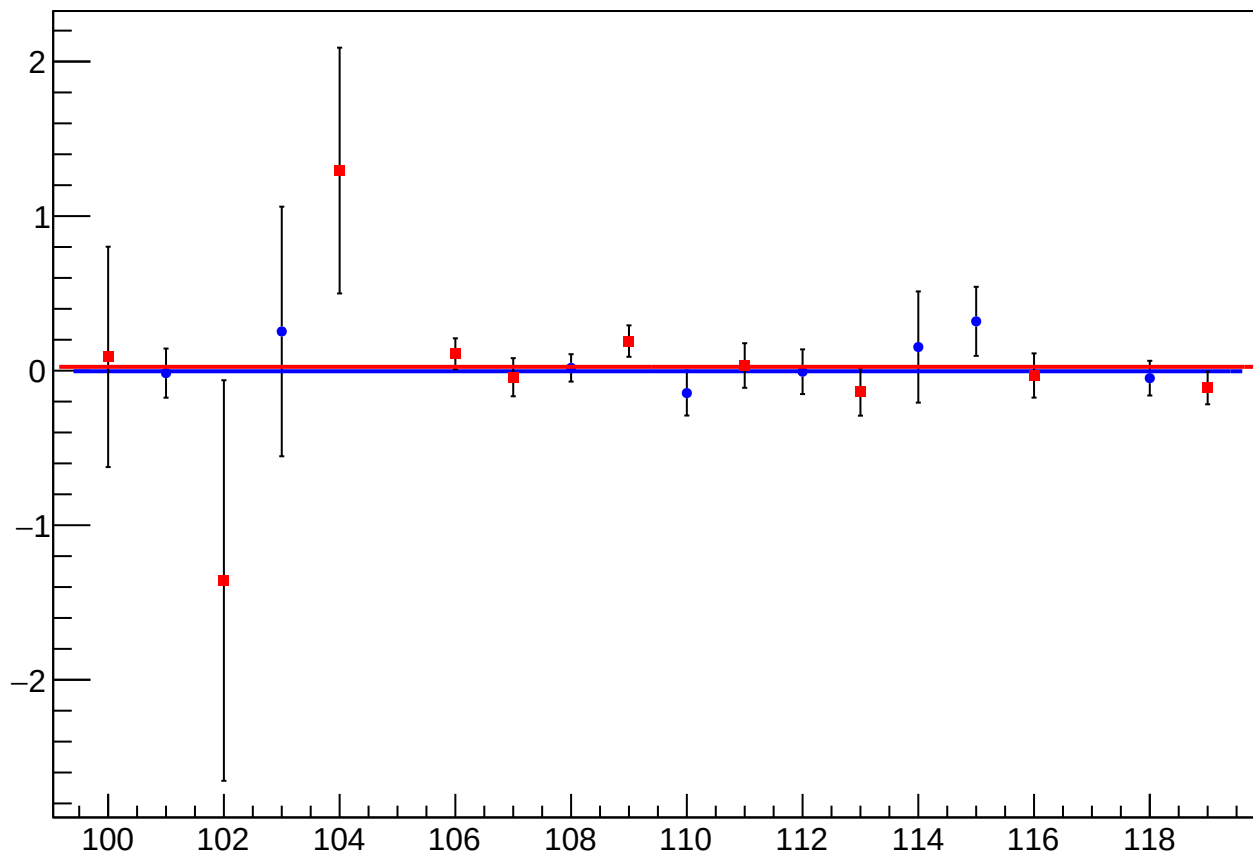
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.947+/-0.024  $\chi^2/\text{NDF}$ : 3307076.3/17

- 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: -0.004 $\pm$ 0.052  $\chi^2$ /NDF: 3.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.025 $\pm$ 0.045  $\chi^2$ /NDF: 10.3/9

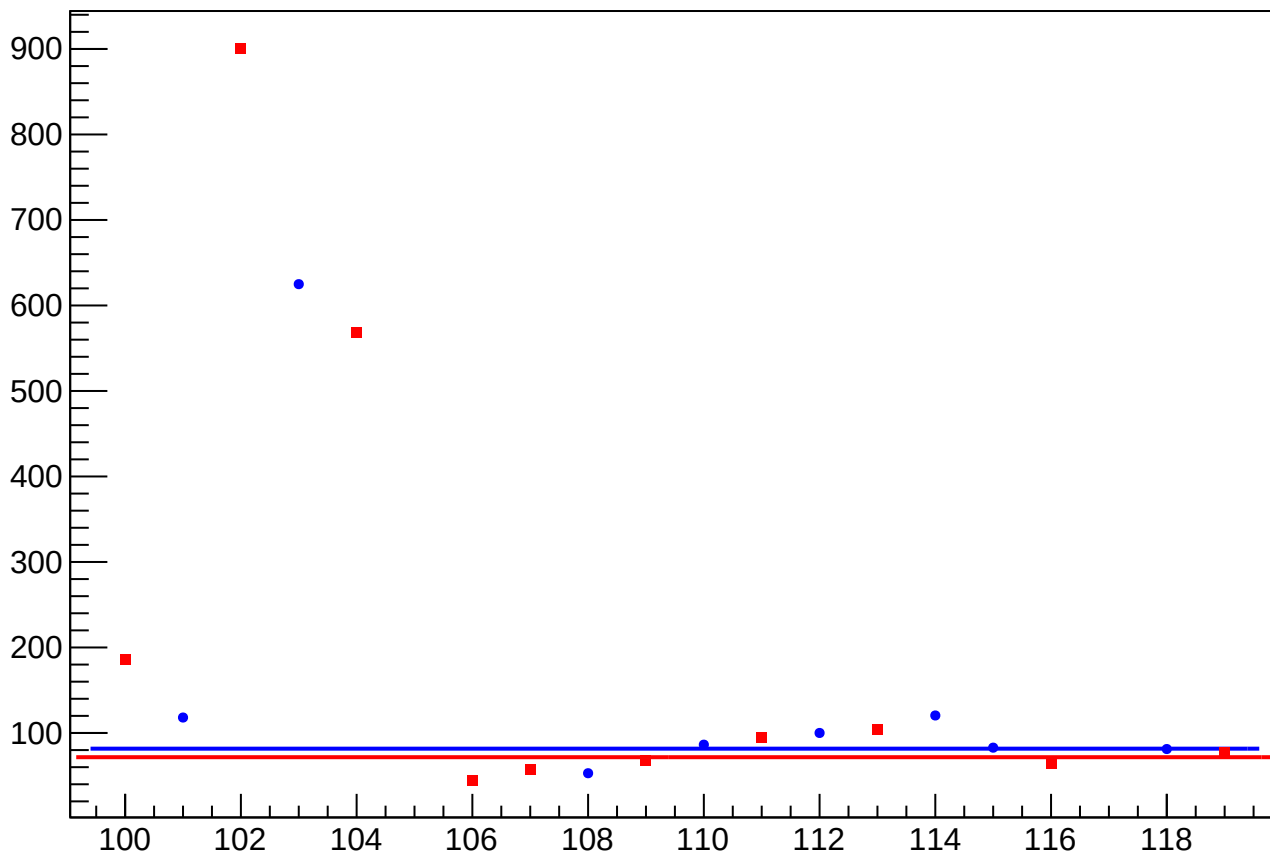
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.013 $\pm$ 0.034  $\chi^2$ /NDF: 14.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 81.654+/-0.037  $\chi^2/\text{NDF}$ : 1278358.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.666+/-0.032  $\chi^2/\text{NDF}$ : 1986428.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

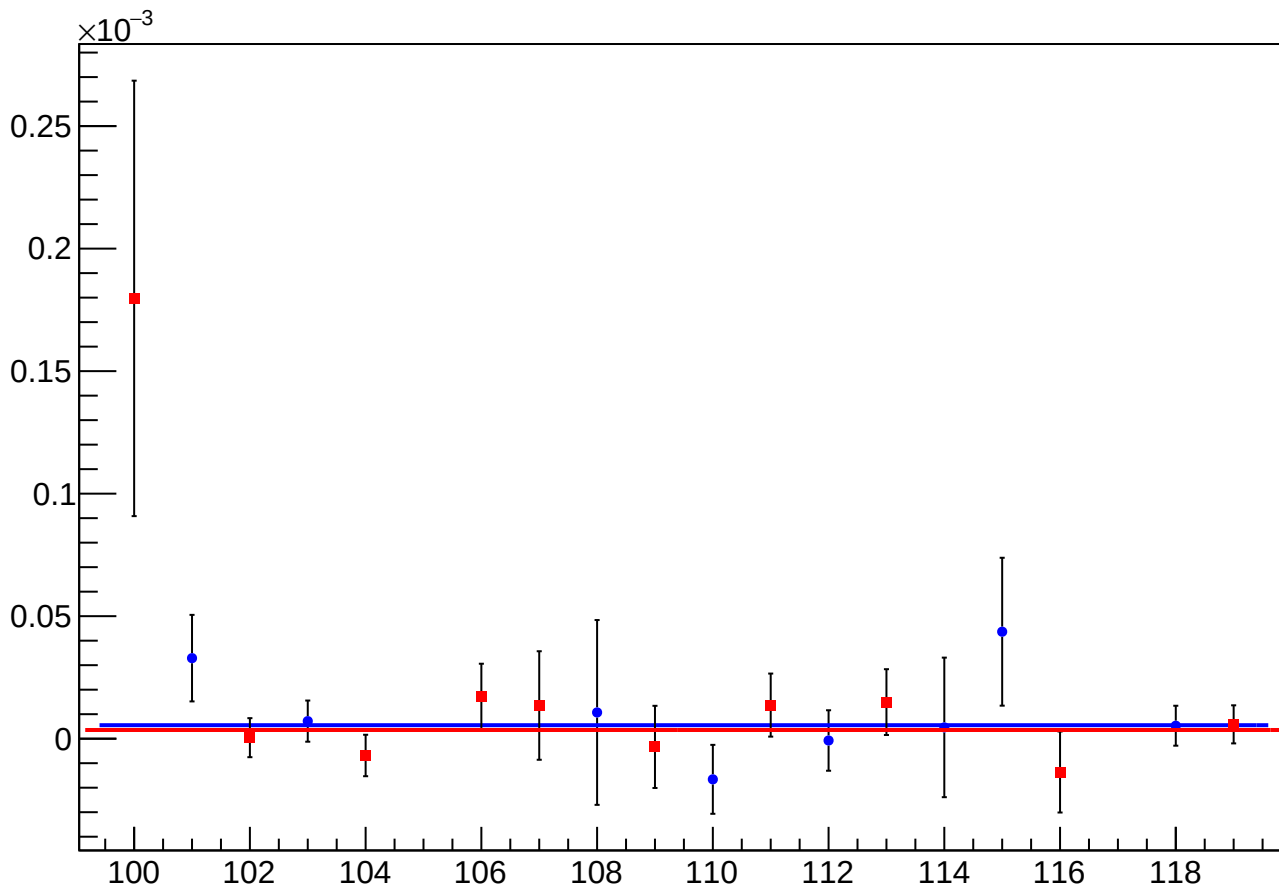
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.947+/-0.024  $\chi^2/\text{NDF}$ : 3307076.3/17

- 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: 6.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.5/9

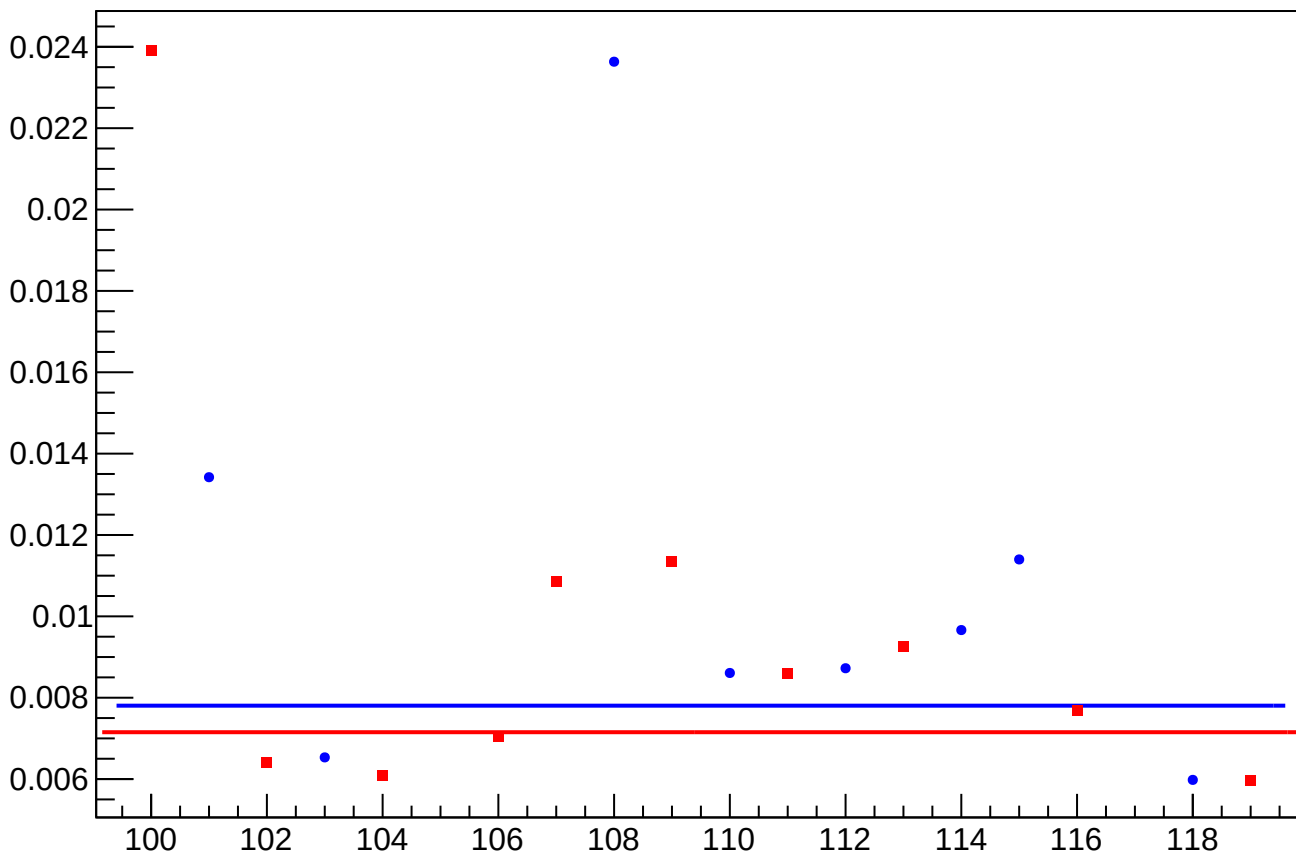
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.4/17

- 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: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 755259.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 425433.1/9

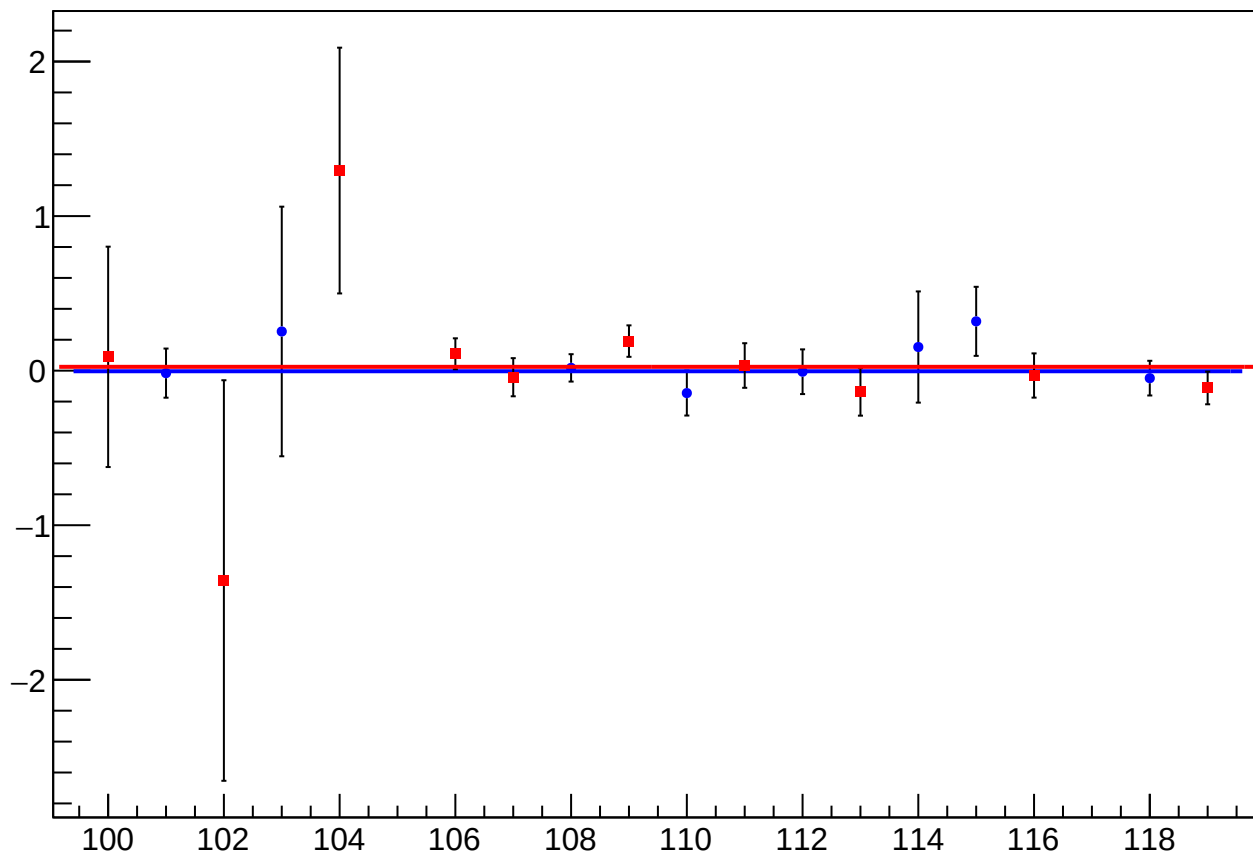
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1205039.7/17

- 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: -0.004 $\pm$ 0.052  $\chi^2$ /NDF: 3.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.025 $\pm$ 0.045  $\chi^2$ /NDF: 10.3/9

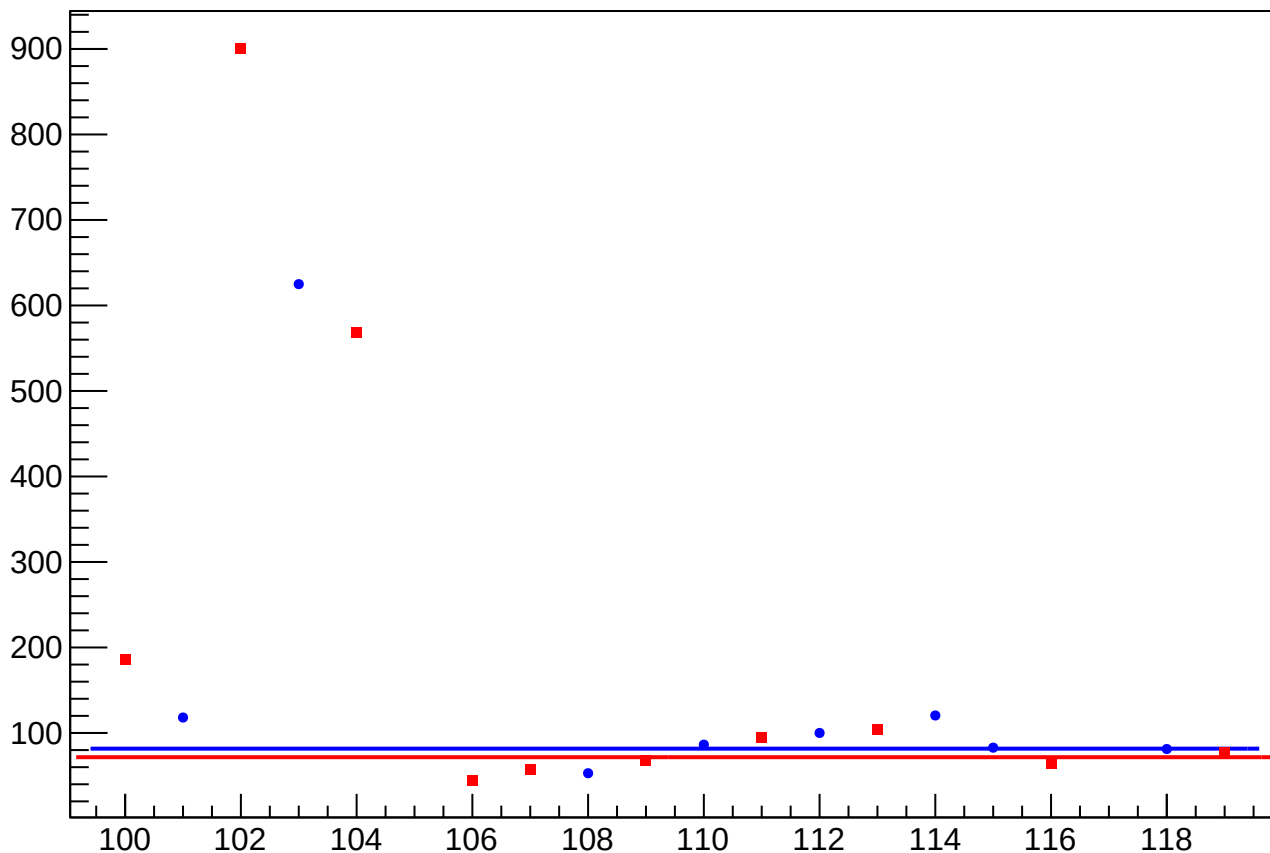
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.013 $\pm$ 0.034  $\chi^2$ /NDF: 14.0/17

- 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: 81.660+/-0.037  $\chi^2/\text{NDF}$ : 1278192.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.666+/-0.032  $\chi^2/\text{NDF}$ : 1986427.7/9

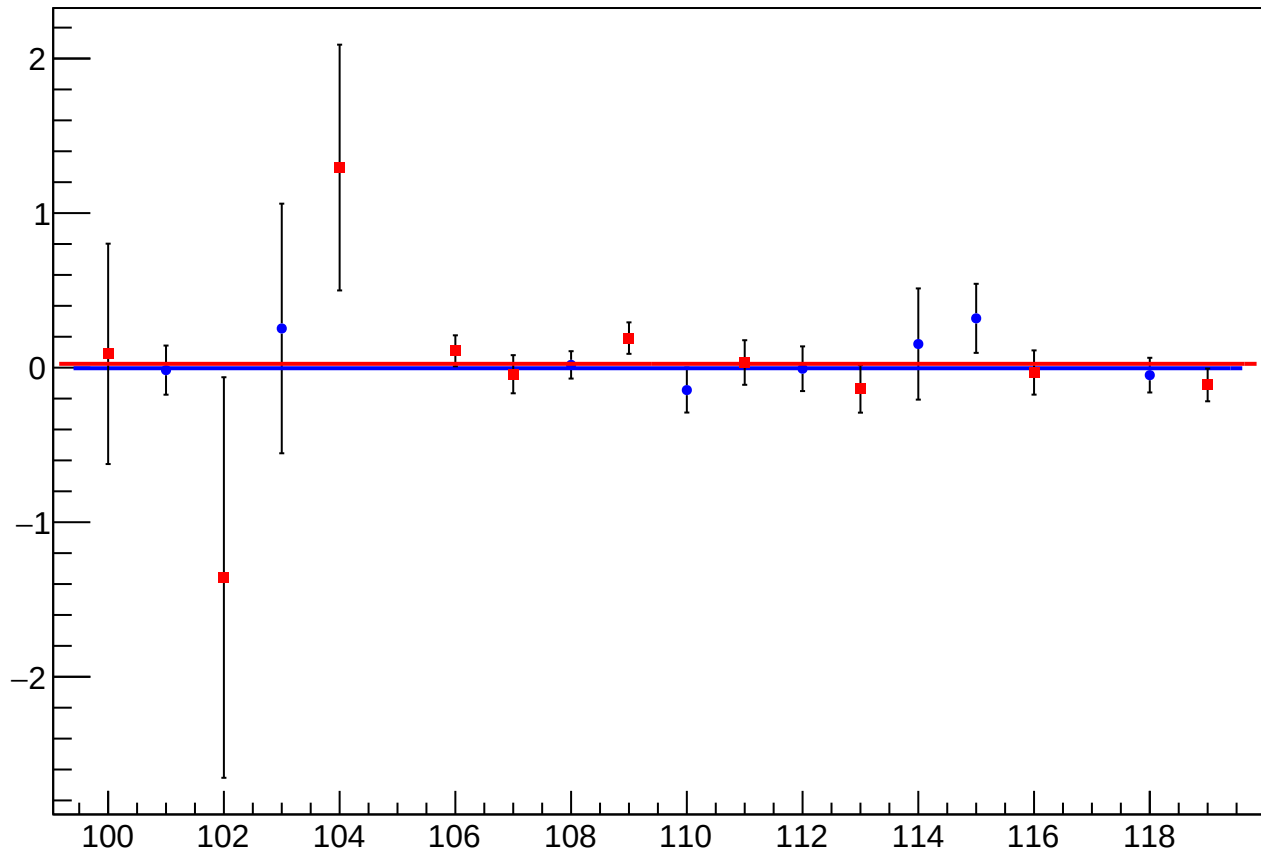
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.949+/-0.024  $\chi^2/\text{NDF}$ : 3306956.0/17

- 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: -0.004 $\pm$ 0.052  $\chi^2$ /NDF: 3.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.025 $\pm$ 0.045  $\chi^2$ /NDF: 10.3/9

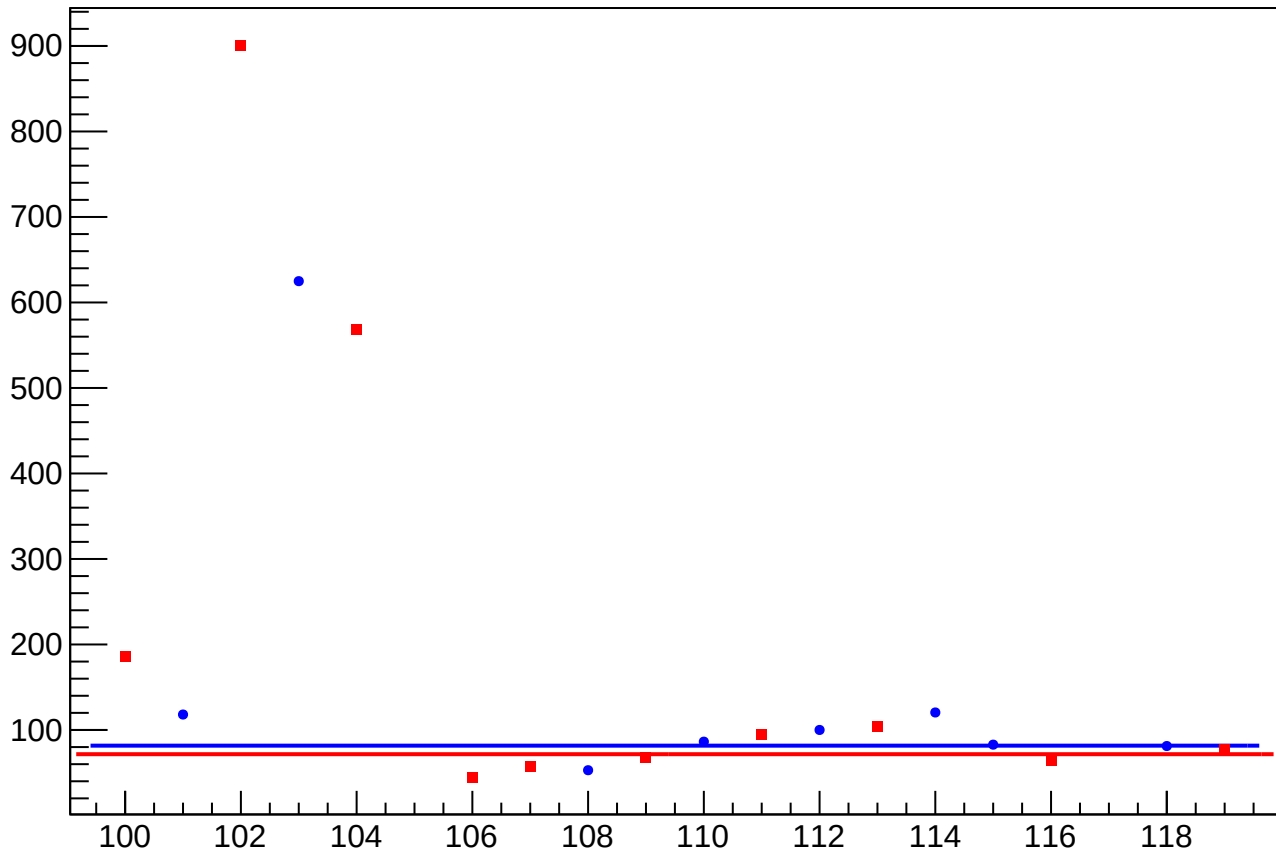
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.013 $\pm$ 0.034  $\chi^2$ /NDF: 14.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 81.660+/-0.037  $\chi^2/\text{NDF}$ : 1278192.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.666+/-0.032  $\chi^2/\text{NDF}$ : 1986427.7/9

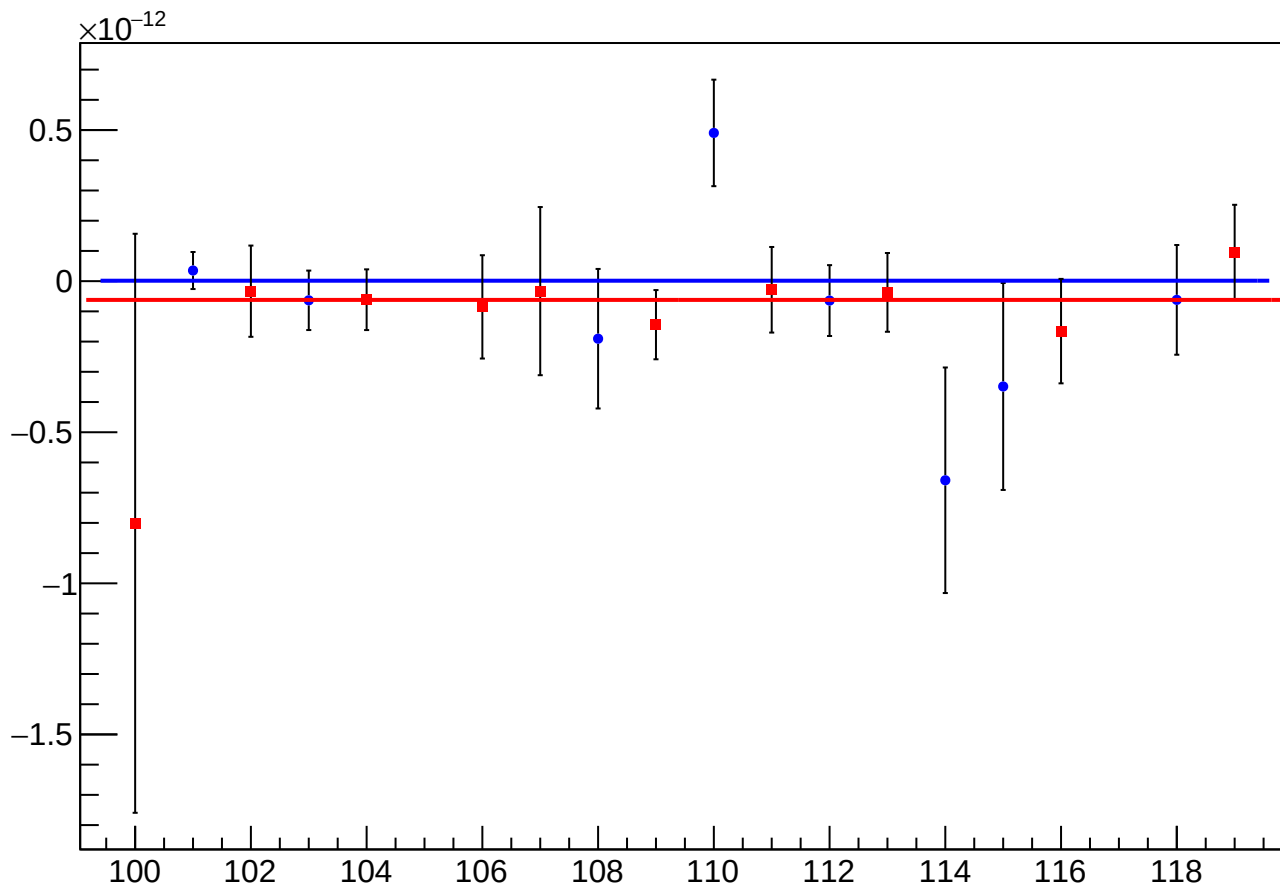
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.949+/-0.024  $\chi^2/\text{NDF}$ : 3306956.0/17

- 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:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 13.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 2.6/9

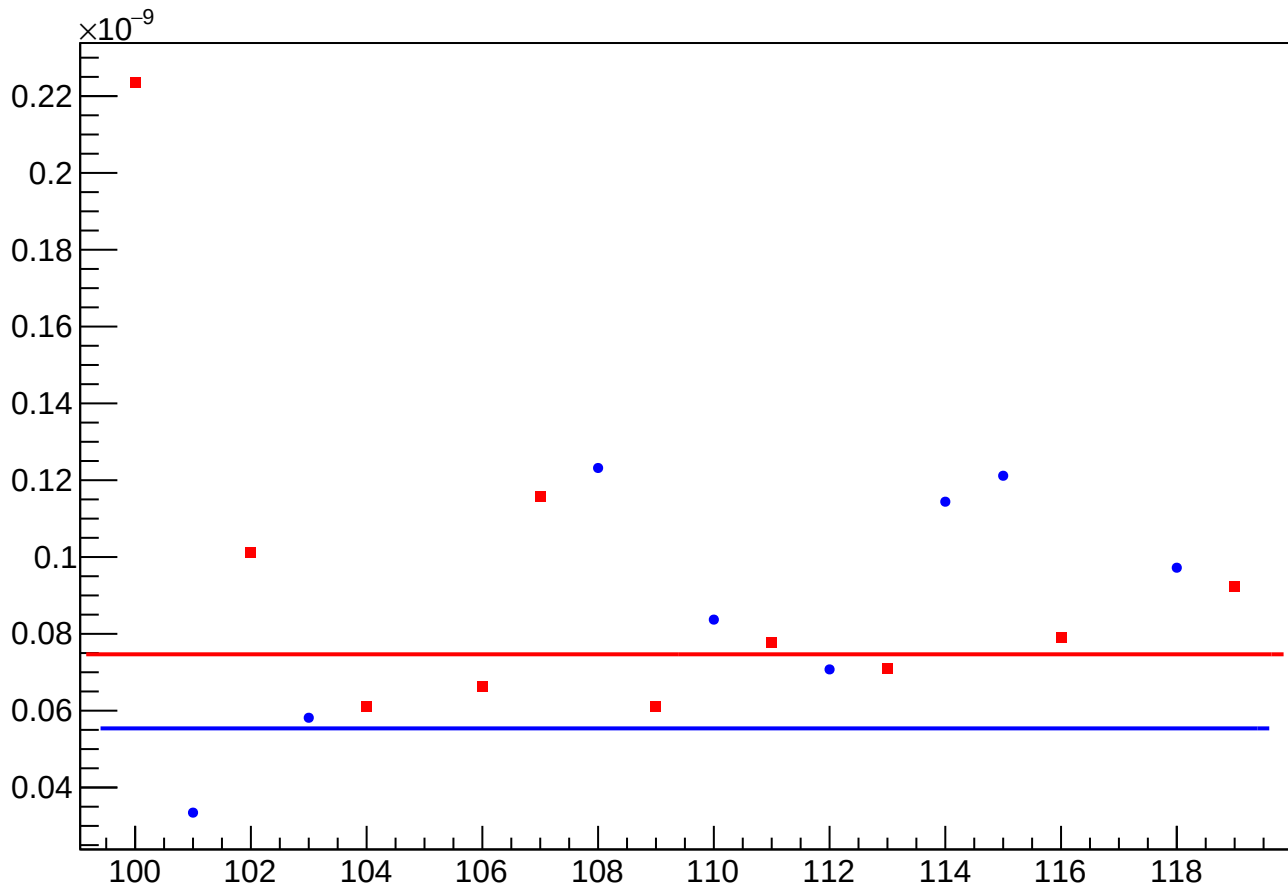
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 17.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 746022.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 252062.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

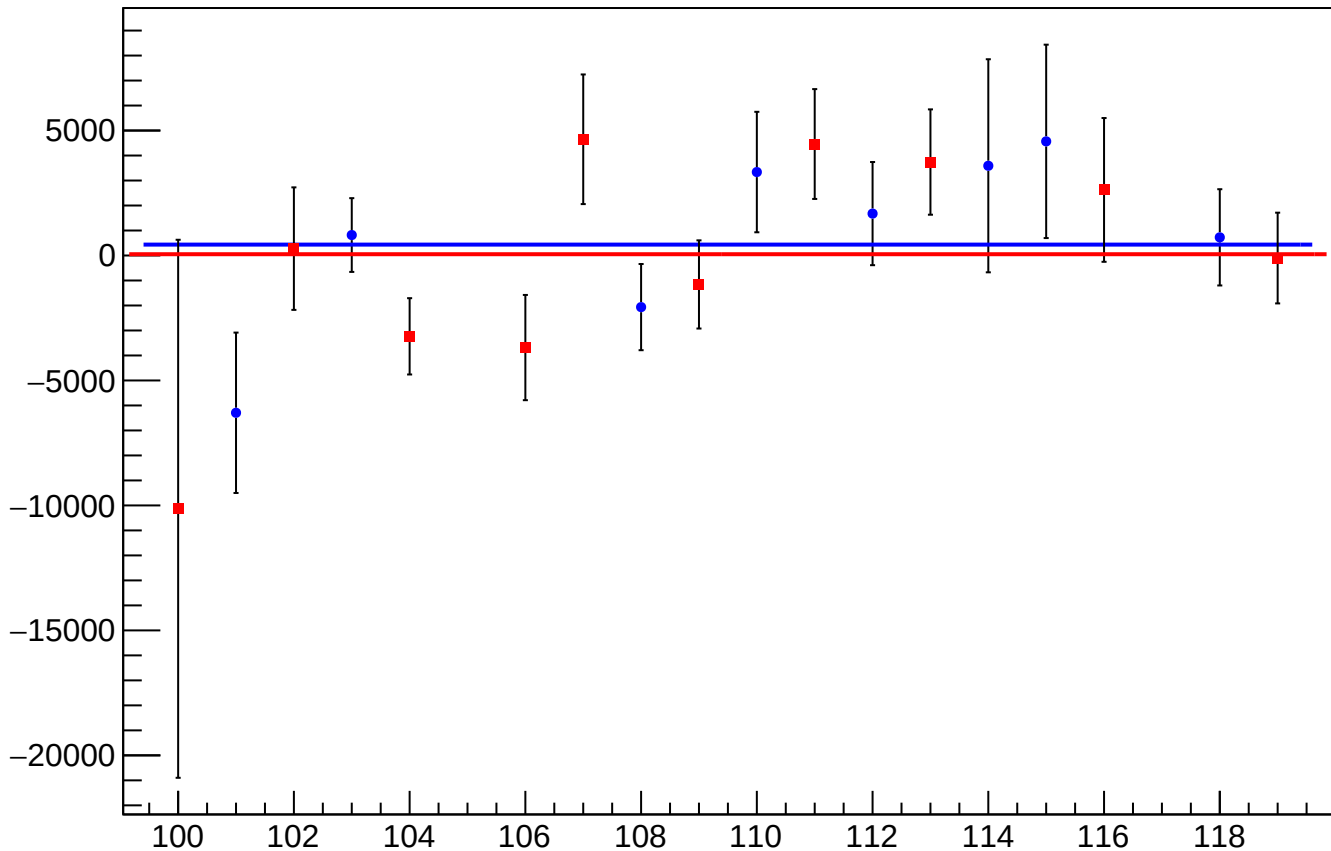
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1180675.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 435.972 $\pm$ 768.934  $\chi^2$ /NDF: 10.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 51.482 $\pm$ 680.970  $\chi^2$ /NDF: 20.2/9

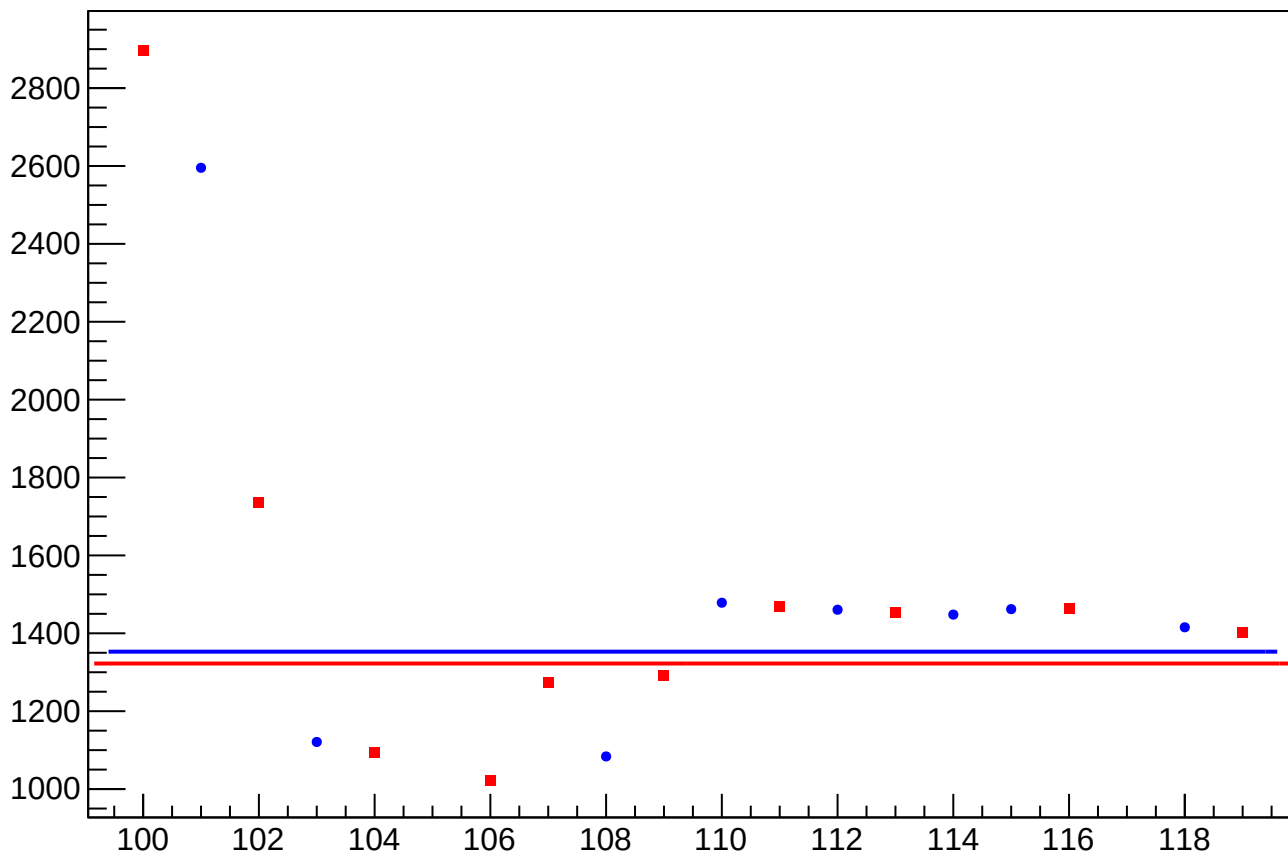
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 220.486 $\pm$ 509.794  $\chi^2$ /NDF: 30.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1352.843+/-0.544  $\chi^2/\text{NDF}$ : 413589.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1322.441+/-0.482  $\chi^2/\text{NDF}$ : 211617.8/9

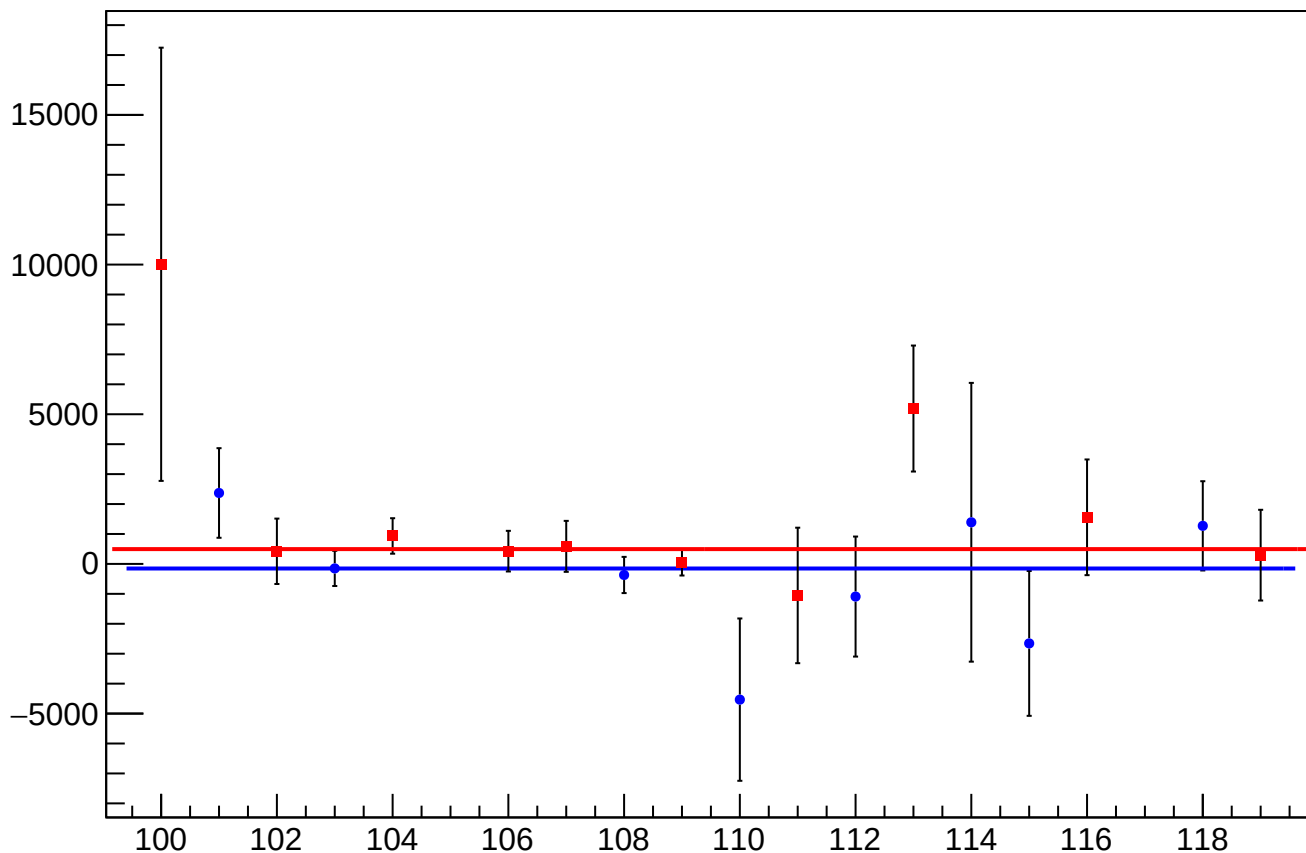
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1335.804+/-0.360  $\chi^2/\text{NDF}$ : 626959.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_reg\_correction\_mean vs Slug



Right In: -153.463+/-374.642  $\chi^2/\text{NDF}$ : 7.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 494.610+/-271.444  $\chi^2/\text{NDF}$ : 9.1/9

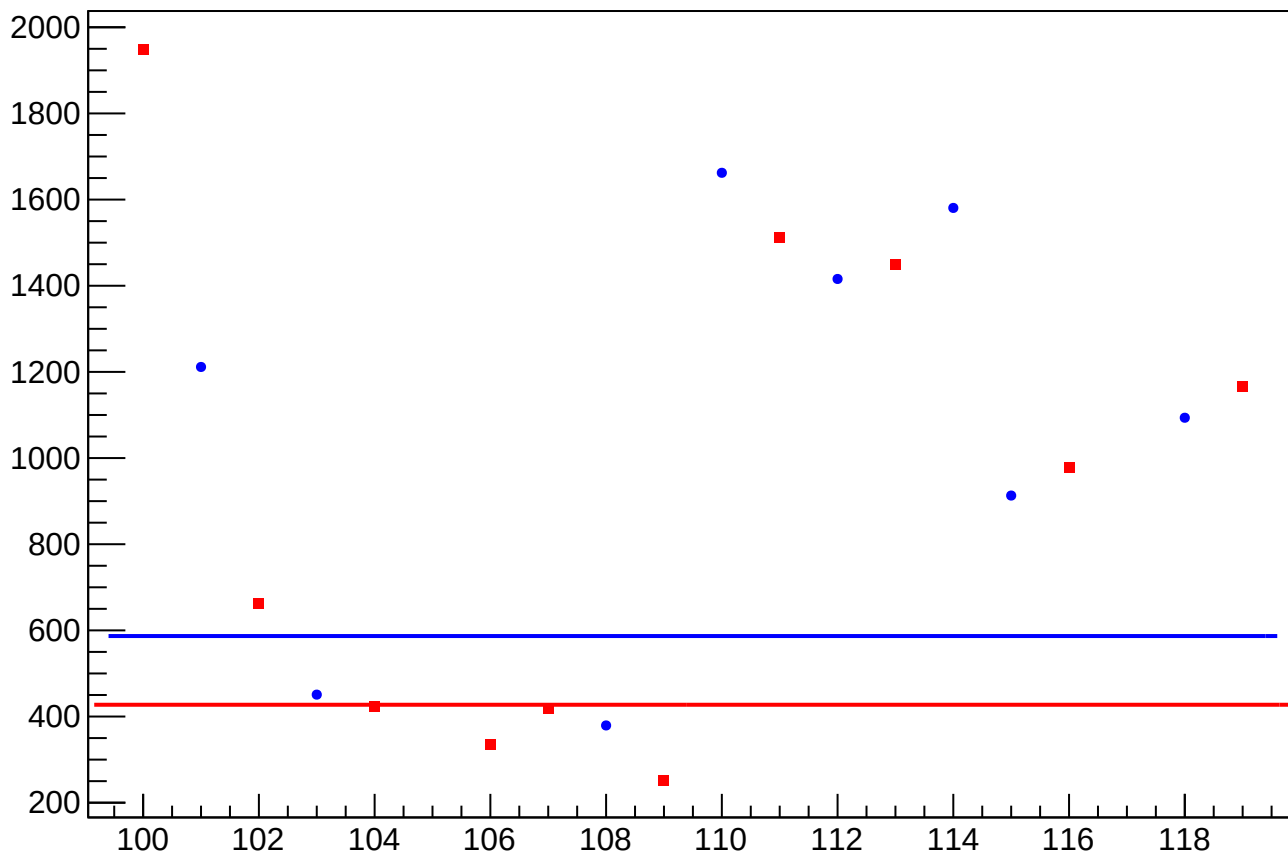
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 271.514+/-219.812  $\chi^2/\text{NDF}$ : 18.9/17

- 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: 586.852 $\pm$ 0.265  $\chi^2$ /NDF: 1705719.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 427.342 $\pm$ 0.192  $\chi^2$ /NDF: 2110945.4/9

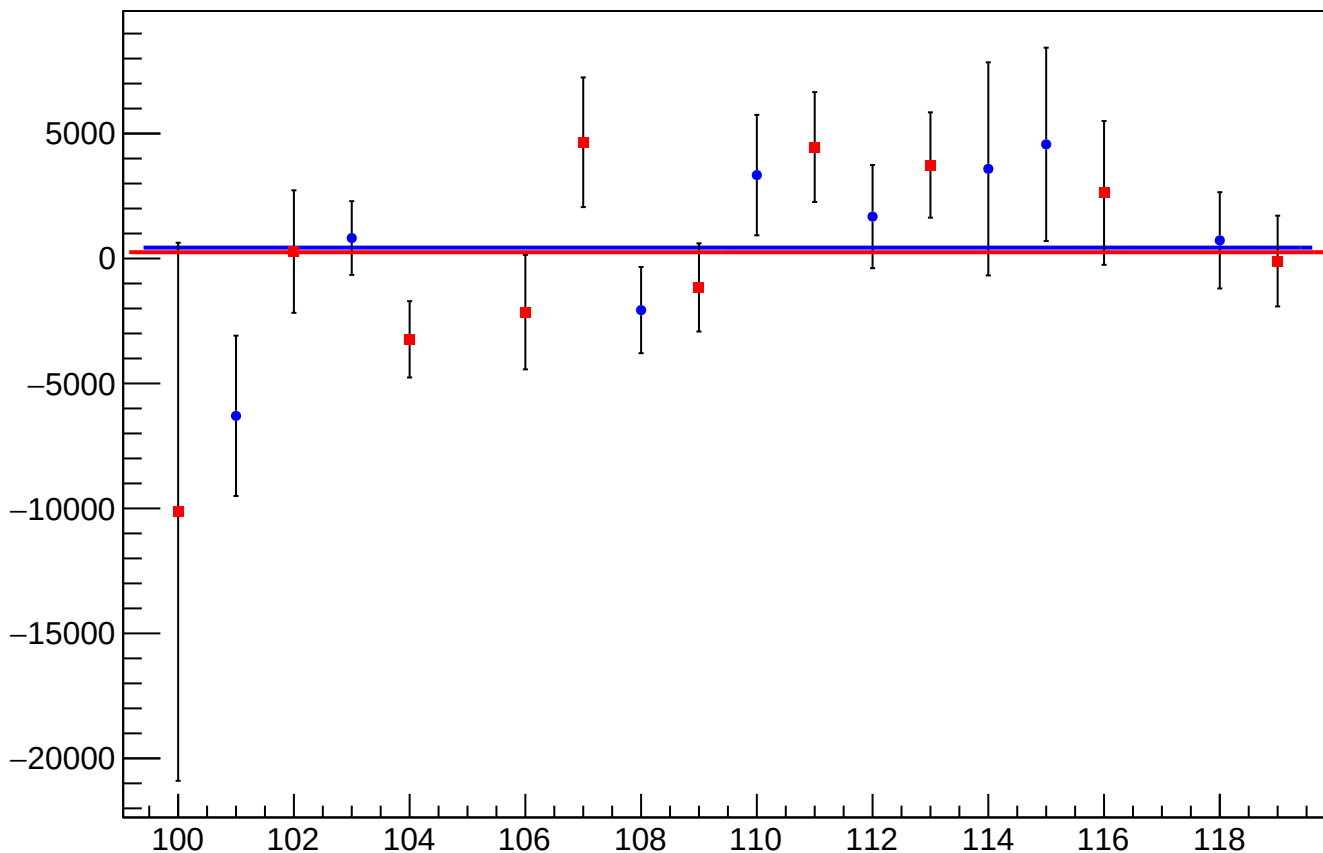
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 482.253 $\pm$ 0.155  $\chi^2$ /NDF: 4054411.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 435.780 $\pm$ 768.934  $\chi^2$ /NDF: 10.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 251.527 $\pm$ 686.549  $\chi^2$ /NDF: 17.9/9

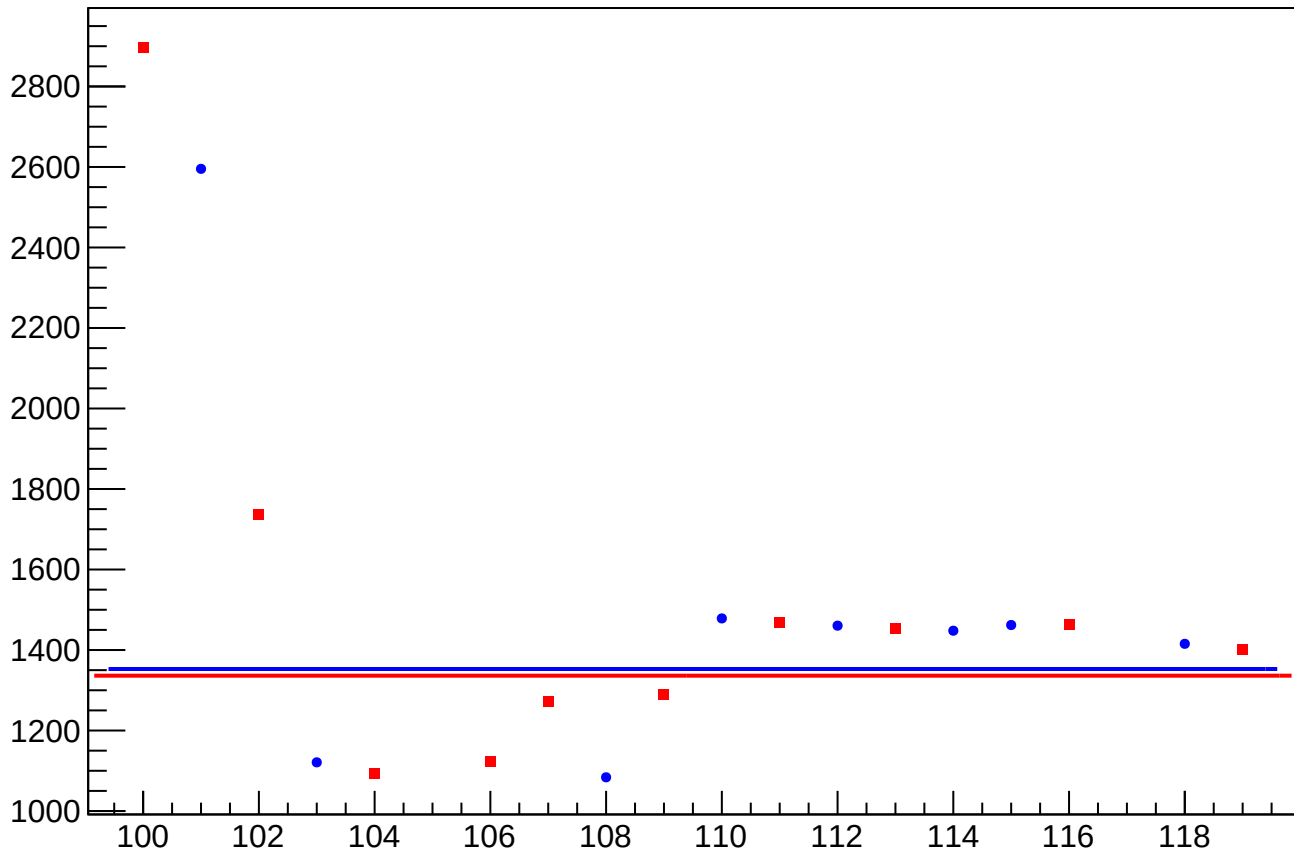
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 333.258 $\pm$ 512.122  $\chi^2$ /NDF: 28.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1352.843+/-0.544  $\chi^2/\text{NDF}$ : 413589.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1336.284+/-0.485  $\chi^2/\text{NDF}$ : 185615.1/9

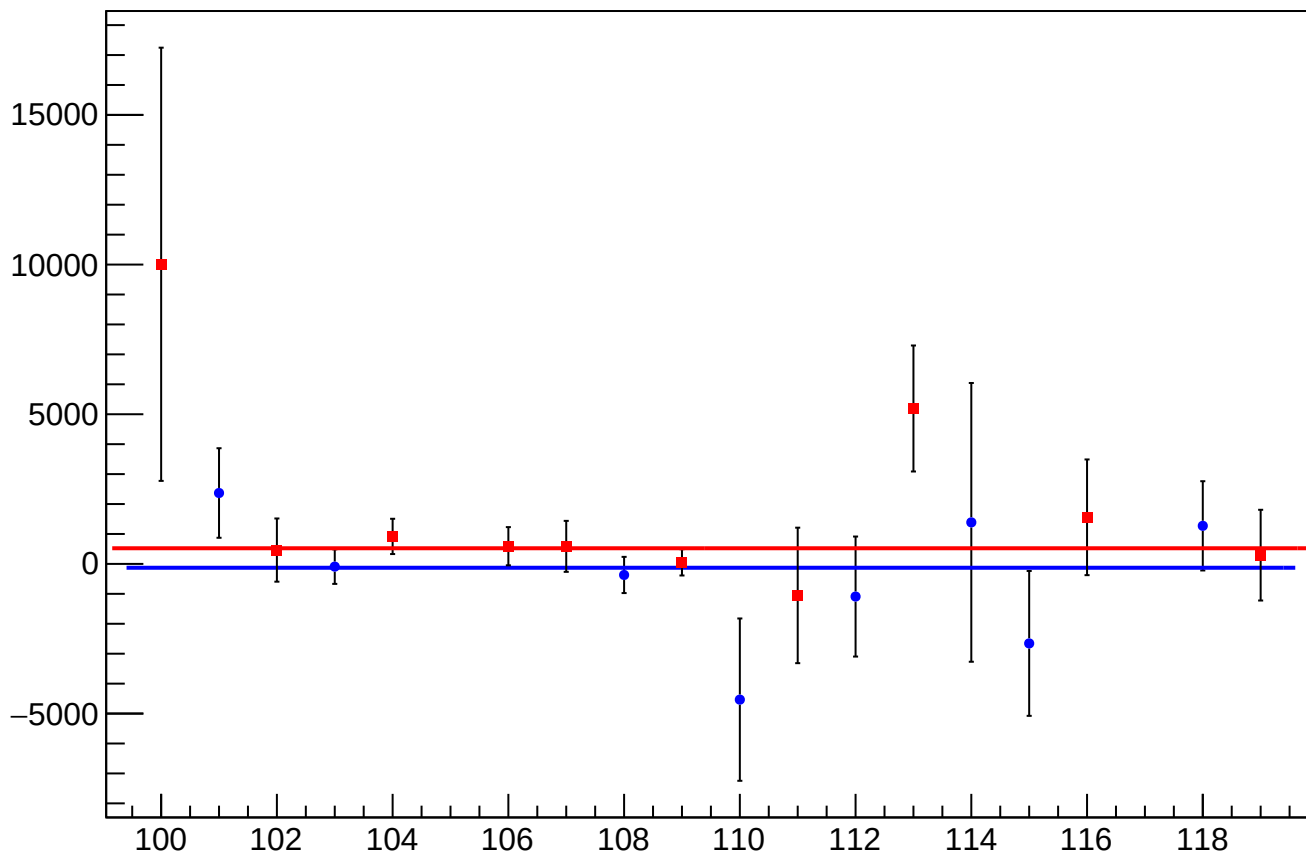
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1343.629+/-0.362  $\chi^2/\text{NDF}$ : 599720.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_cor\_correction\_mean vs Slug



Right In: -128.605+/-371.701  $\chi^2/\text{NDF}$ : 7.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 522.586+/-267.719  $\chi^2/\text{NDF}$ : 9.1/9

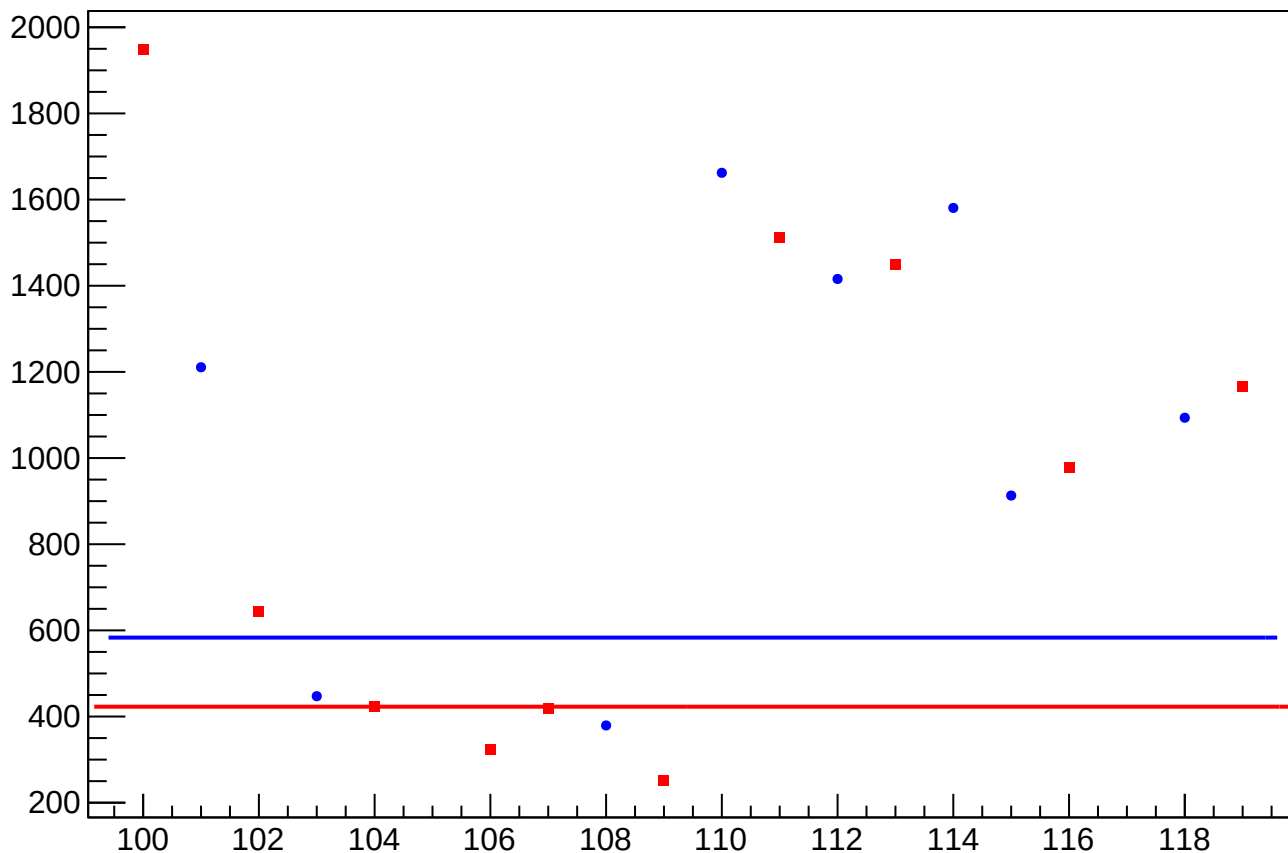
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 300.158+/-217.237  $\chi^2/\text{NDF}$ : 19.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_cor\_correction\_rms vs Slug



Right In: 583.238+/-0.263  $\chi^2/\text{NDF}$ : 1715289.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 422.834+/-0.189  $\chi^2/\text{NDF}$ : 2117269.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

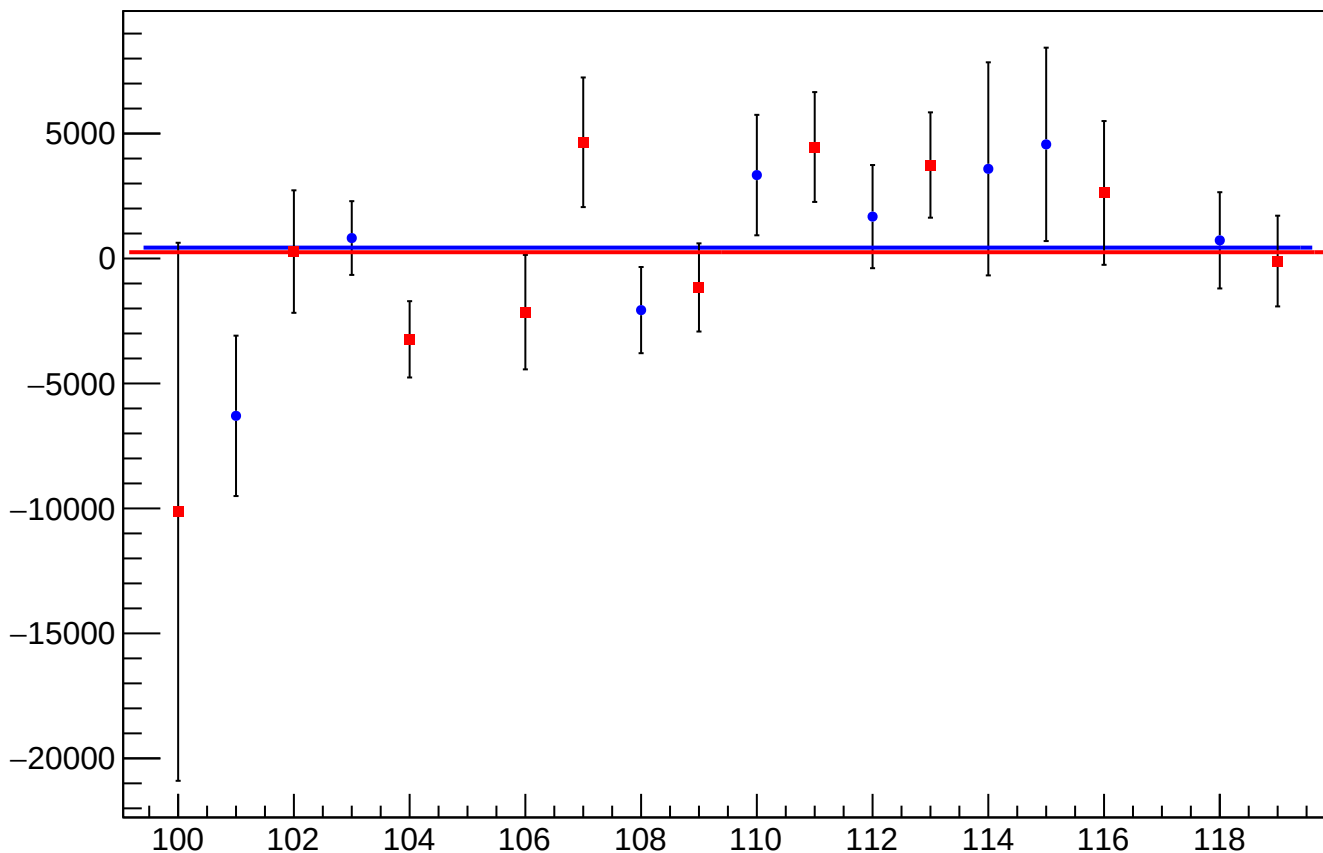
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 477.623+/-0.154  $\chi^2/\text{NDF}$ : 4077793.2/17

- 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: 435.780+/-768.934  $\chi^2/\text{NDF}$ : 10.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 251.527+/-686.549  $\chi^2/\text{NDF}$ : 17.9/9

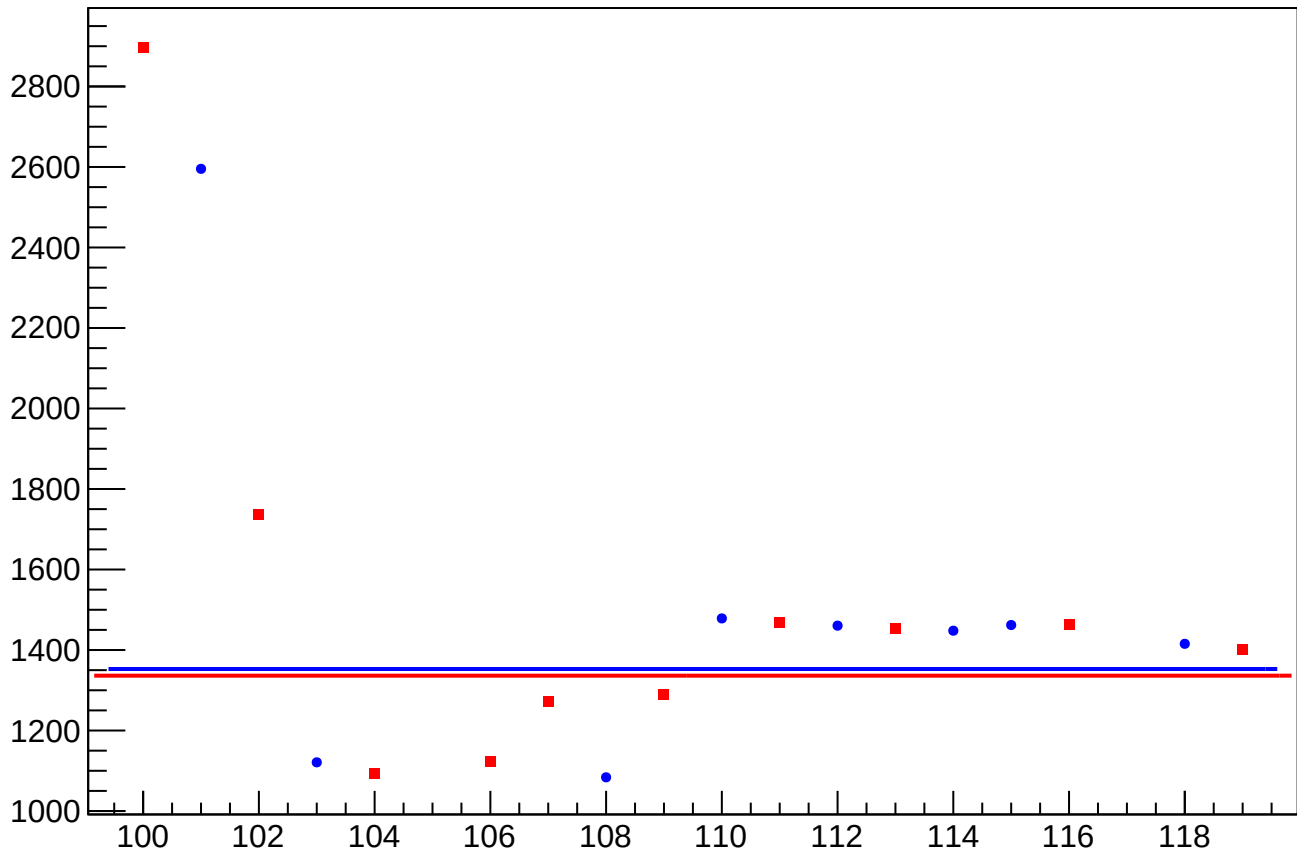
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 333.258+/-512.122  $\chi^2/\text{NDF}$ : 28.0/17

- 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: 1352.843+/-0.544  $\chi^2/\text{NDF}$ : 413589.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1336.284+/-0.485  $\chi^2/\text{NDF}$ : 185615.1/9

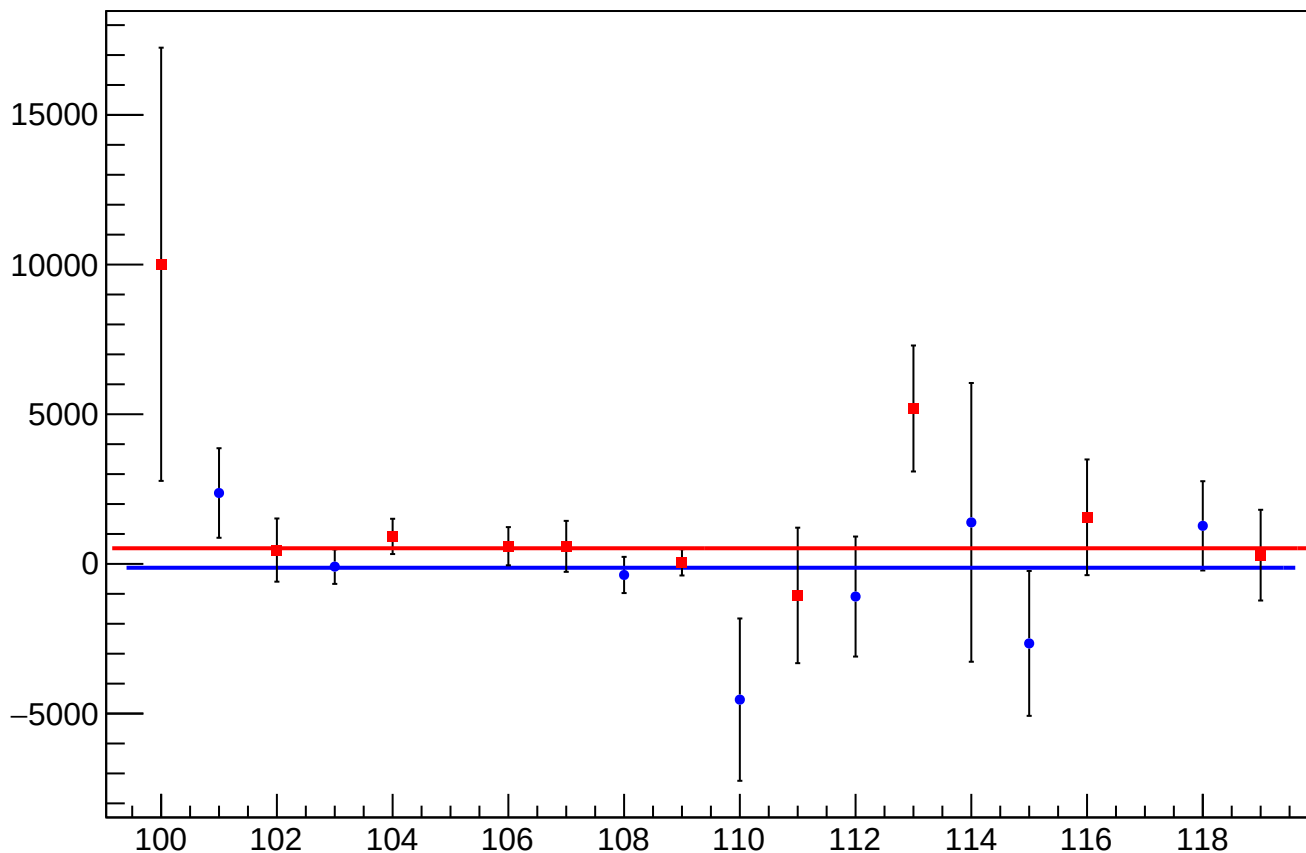
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1343.629+/-0.362  $\chi^2/\text{NDF}$ : 599720.8/17

- 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: -128.605+/-371.701  $\chi^2/\text{NDF}$ : 7.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 522.586+/-267.719  $\chi^2/\text{NDF}$ : 9.1/9

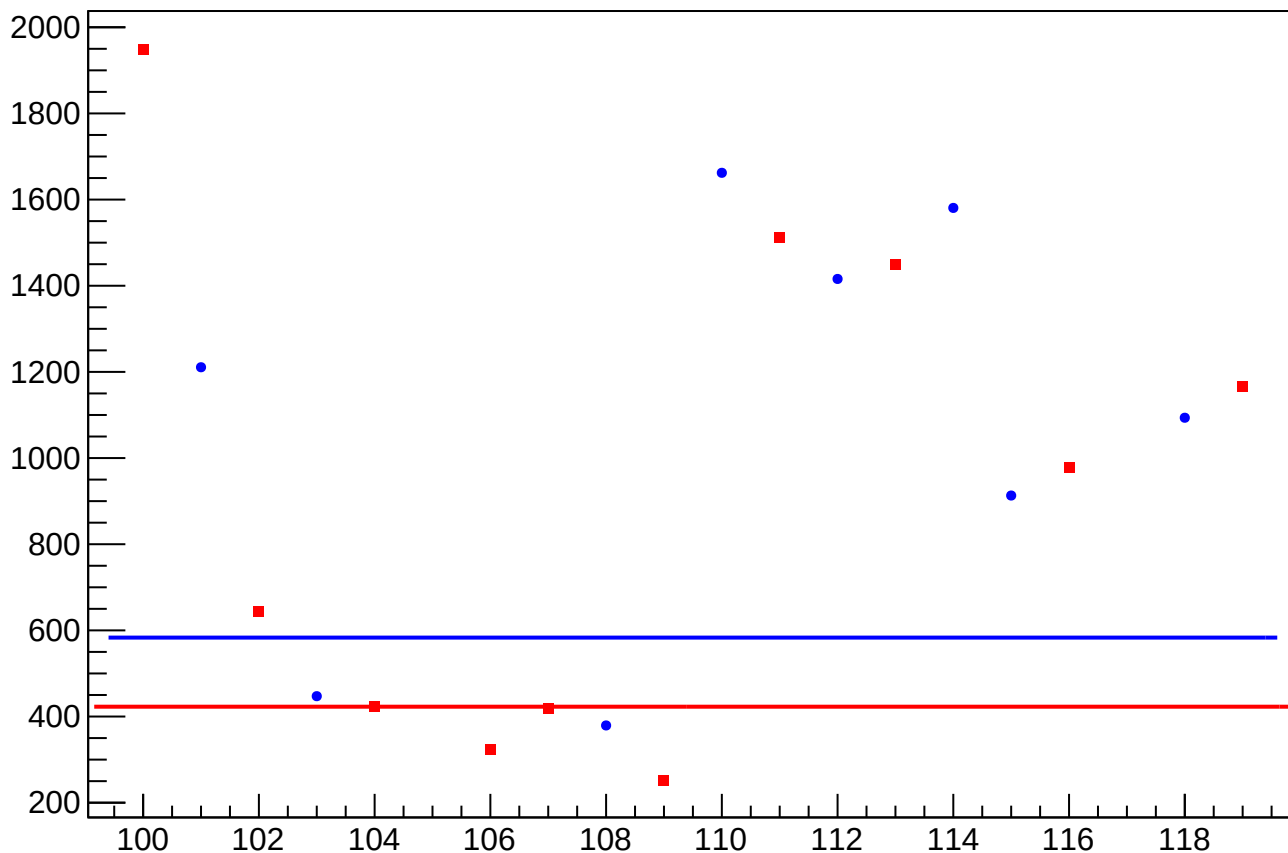
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 300.158+/-217.237  $\chi^2/\text{NDF}$ : 19.0/17

- 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: 583.238+/-0.263  $\chi^2/\text{NDF}$ : 1715289.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 422.834+/-0.189  $\chi^2/\text{NDF}$ : 2117269.5/9

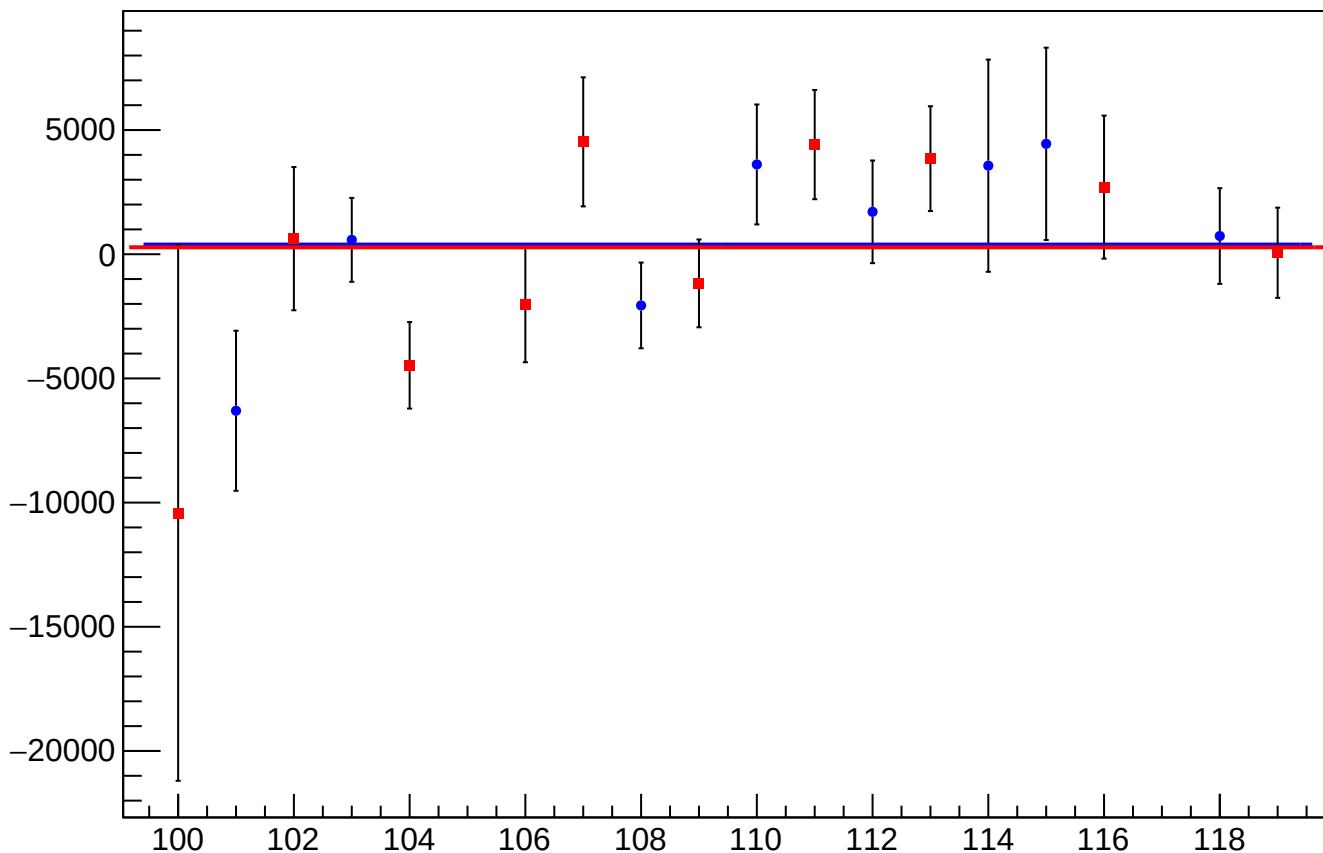
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 477.623+/-0.154  $\chi^2/\text{NDF}$ : 4077793.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 388.160 $\pm$ 795.819  $\chi^2$ /NDF: 10.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 279.754 $\pm$ 713.053  $\chi^2$ /NDF: 19.9/9

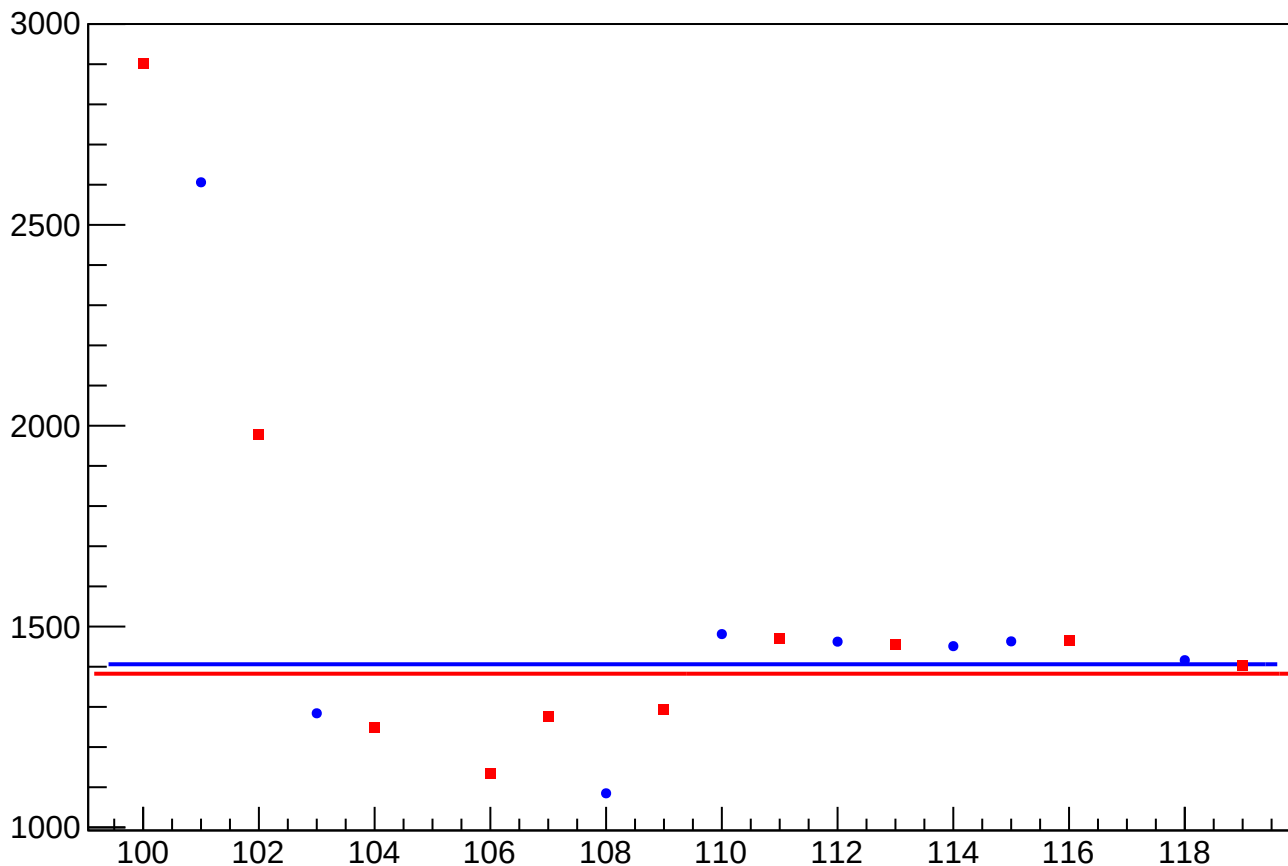
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 328.028 $\pm$ 531.063  $\chi^2$ /NDF: 30.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1406.154+/-0.563  $\chi^2/\text{NDF}$ : 361145.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1382.615+/-0.504  $\chi^2/\text{NDF}$ : 175943.2/9

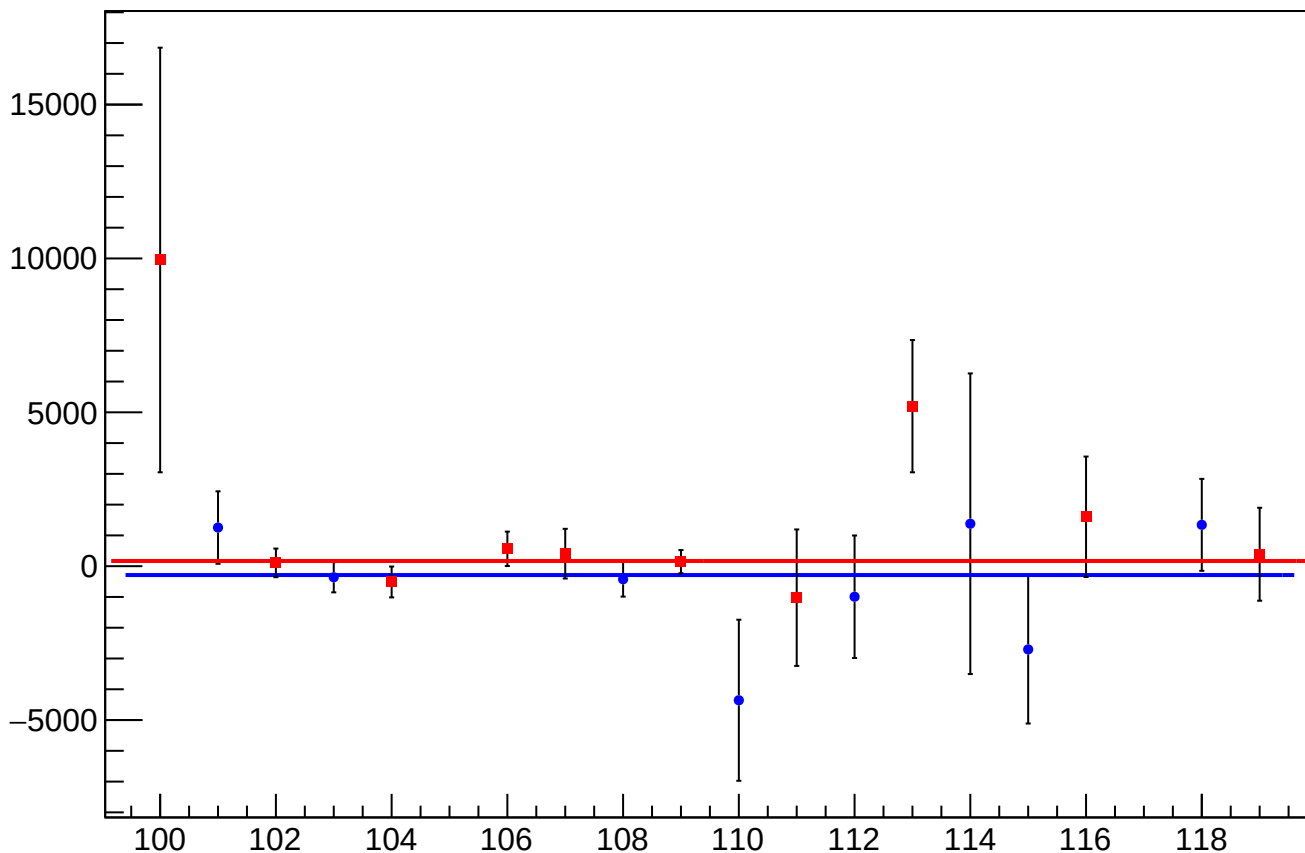
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1393.097+/-0.376  $\chi^2/\text{NDF}$ : 538058.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_correction\_mean vs Slug



Right In: -287.943+/-332.160  $\chi^2/\text{NDF}$ : 6.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 168.839+/-215.409  $\chi^2/\text{NDF}$ : 10.8/9

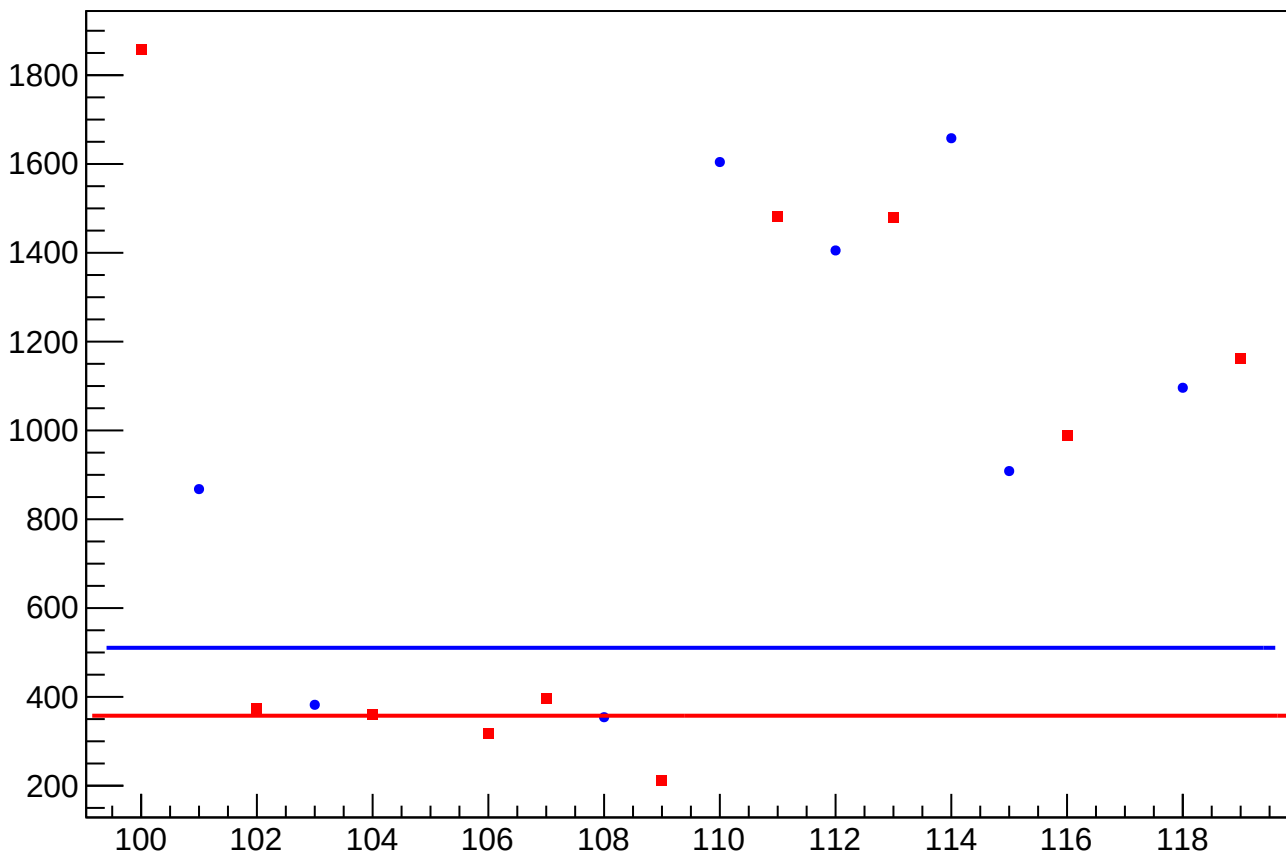
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.607+/-180.731  $\chi^2/\text{NDF}$ : 18.8/17

- 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: 510.542 $\pm$ 0.235  $\chi^2$ /NDF: 1699708.1/7

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: 357.613 $\pm$ 0.152  $\chi^2$ /NDF: 2247077.2/9

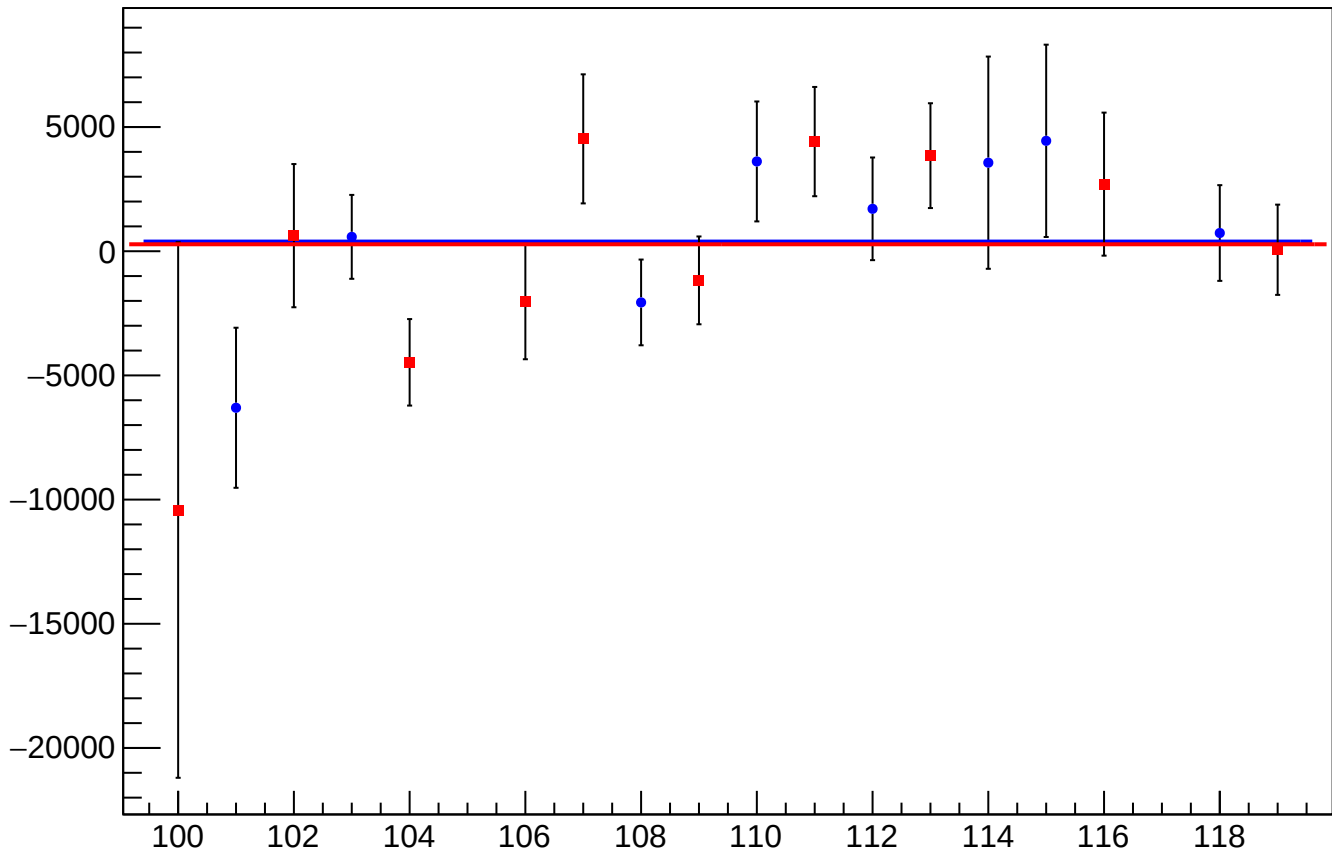
All: 402.888 $\pm$ 0.128  $\chi^2$ /NDF: 4245220.7/17

- 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\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 388.151+/-795.819  $\chi^2/\text{NDF}$ : 10.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 279.758+/-713.053  $\chi^2/\text{NDF}$ : 19.9/9

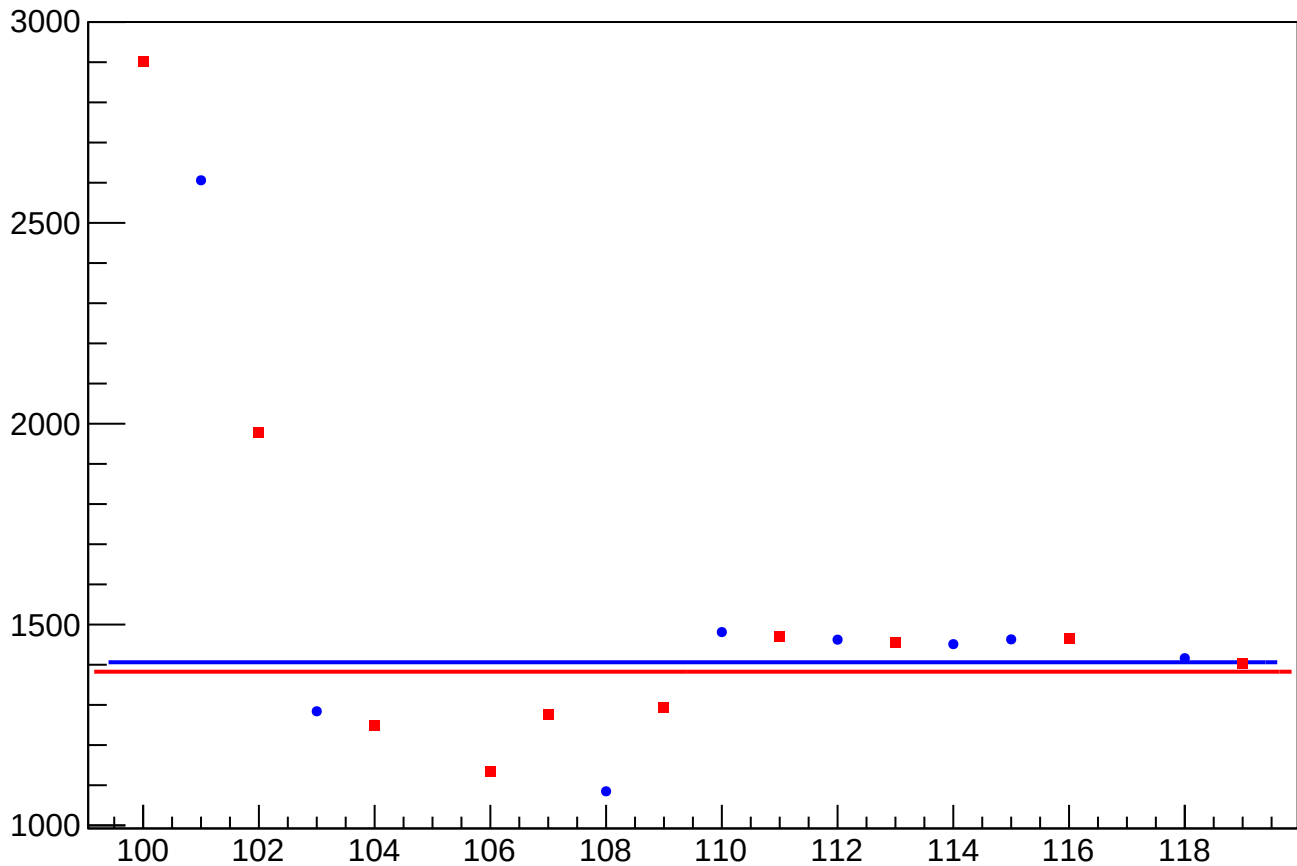
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 328.027+/-531.063  $\chi^2/\text{NDF}$ : 30.1/17

- 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: 1406.154+/-0.563  $\chi^2/\text{NDF}$ : 361144.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1382.615+/-0.504  $\chi^2/\text{NDF}$ : 175943.2/9

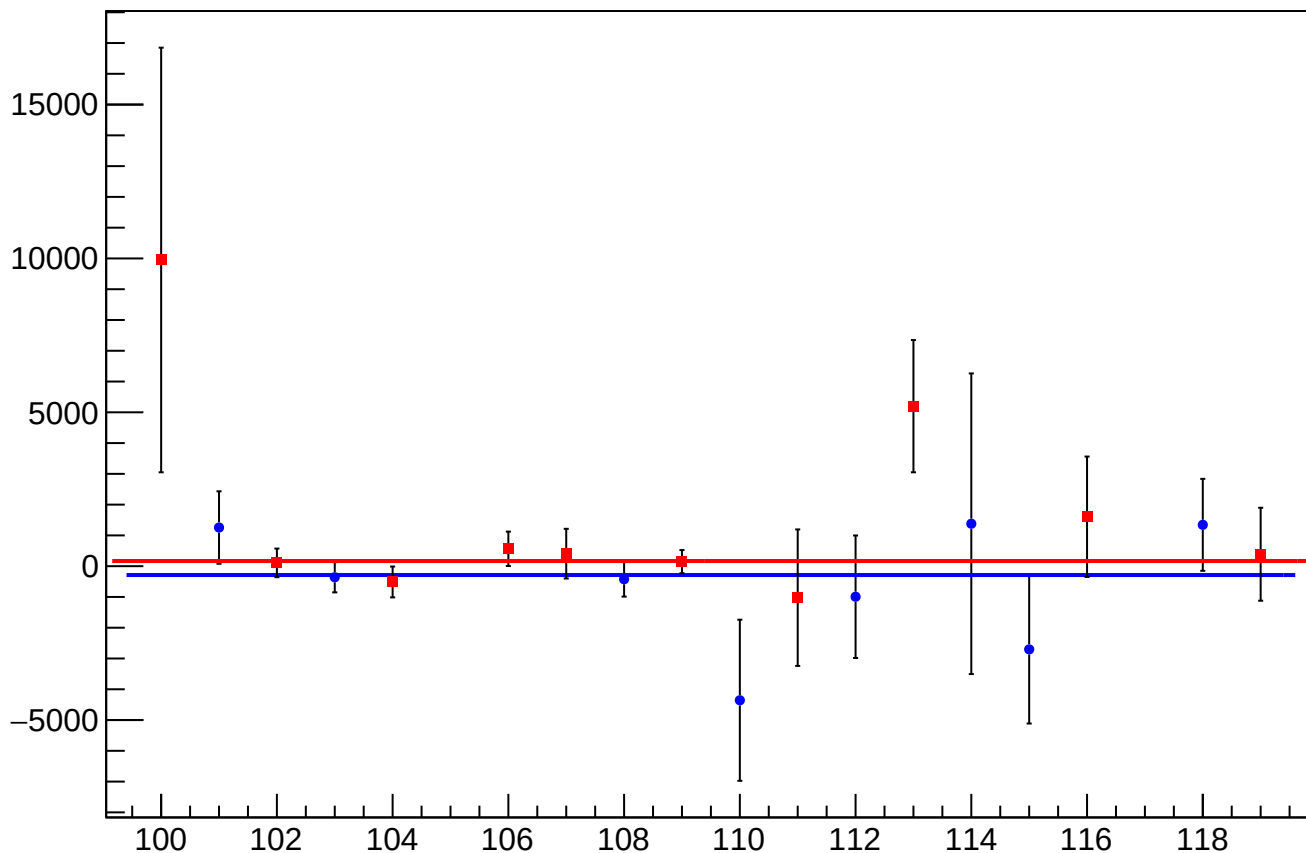
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1393.097+/-0.376  $\chi^2/\text{NDF}$ : 538058.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -287.951+/-332.156  $\chi^2/\text{NDF}$ : 6.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 168.834+/-215.410  $\chi^2/\text{NDF}$ : 10.8/9

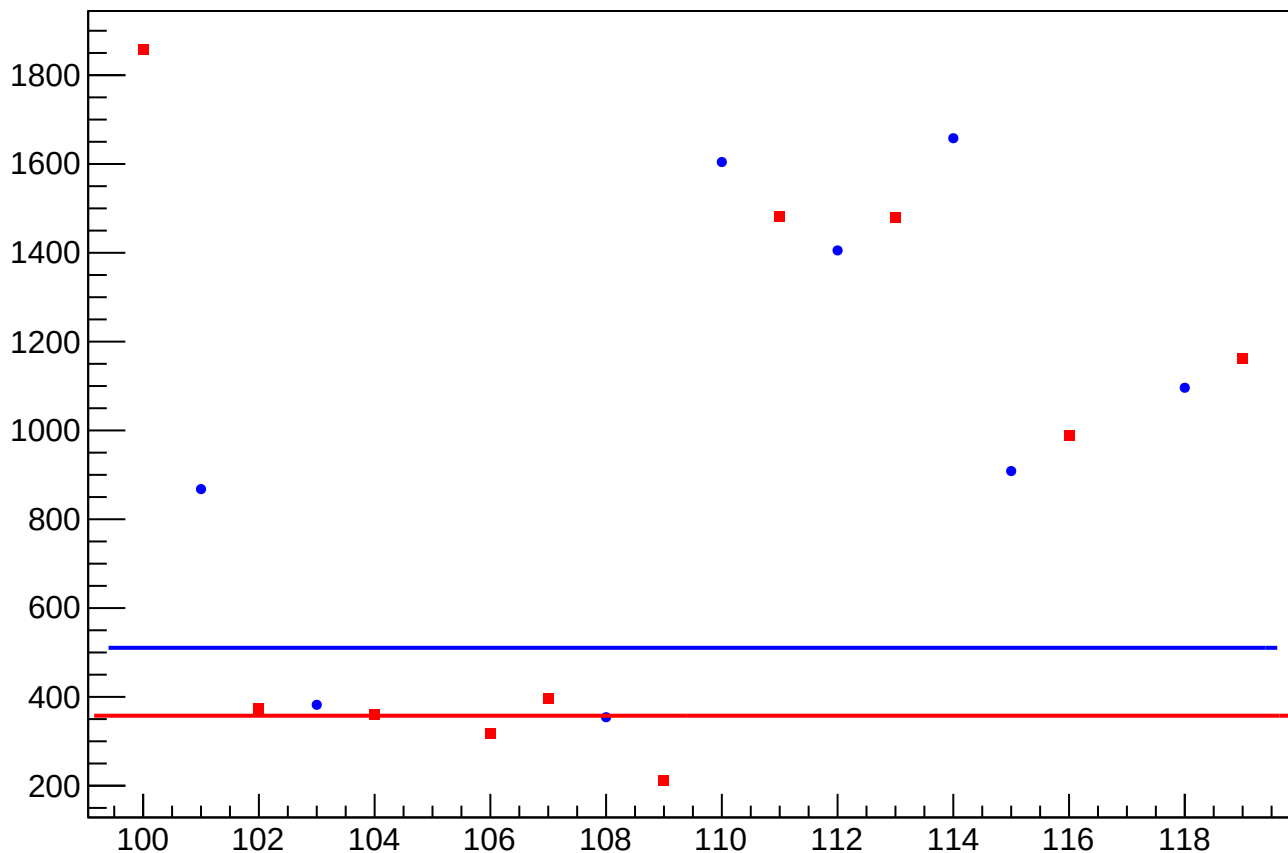
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.597+/-180.731  $\chi^2/\text{NDF}$ : 18.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 510.533+/-0.235  $\chi^2/\text{NDF}$ : 1699749.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 357.618+/-0.152  $\chi^2/\text{NDF}$ : 2247024.1/9

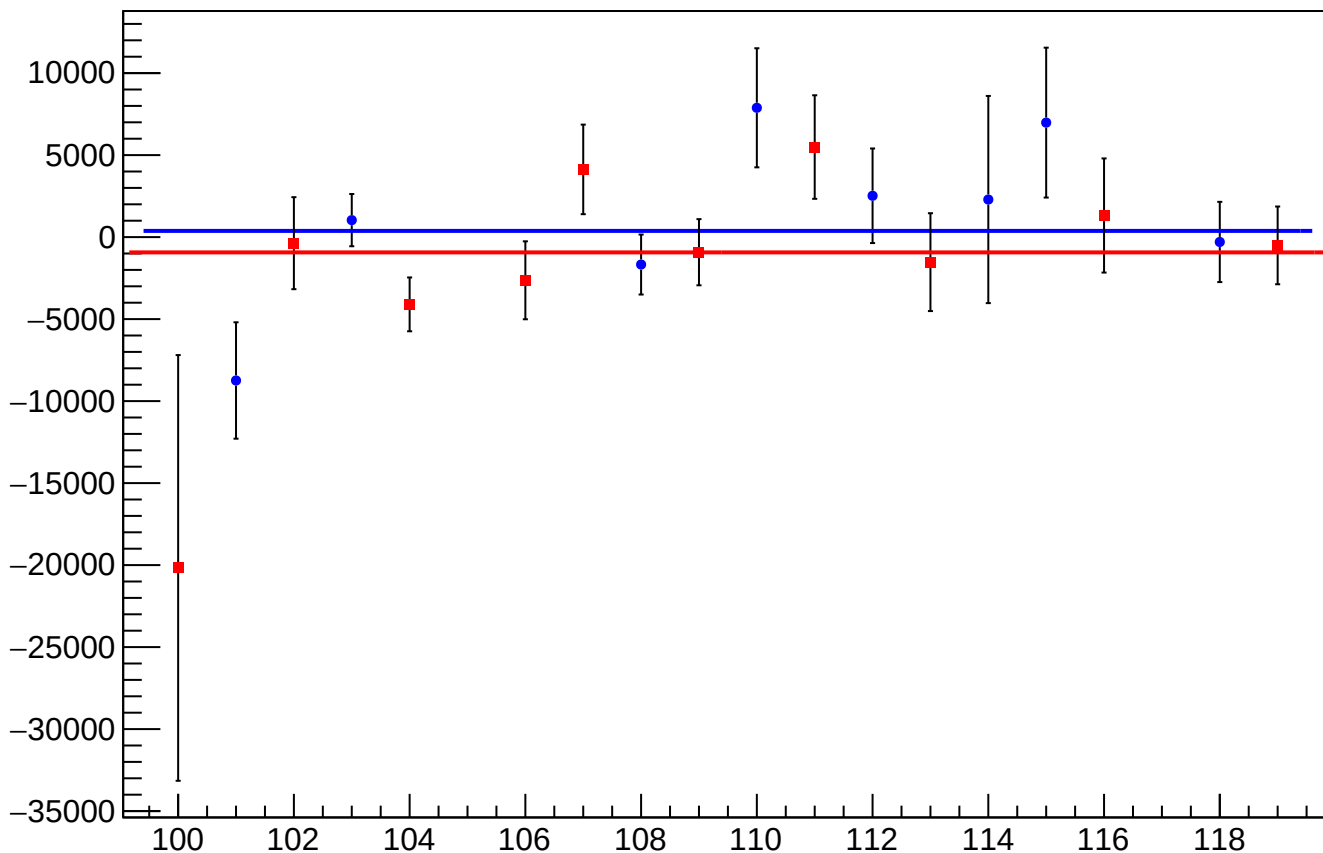
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 402.890+/-0.128  $\chi^2/\text{NDF}$ : 4245161.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 378.438+/-909.499  $\chi^2/\text{NDF}$ : 15.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -932.303+/-807.196  $\chi^2/\text{NDF}$ : 14.5/9

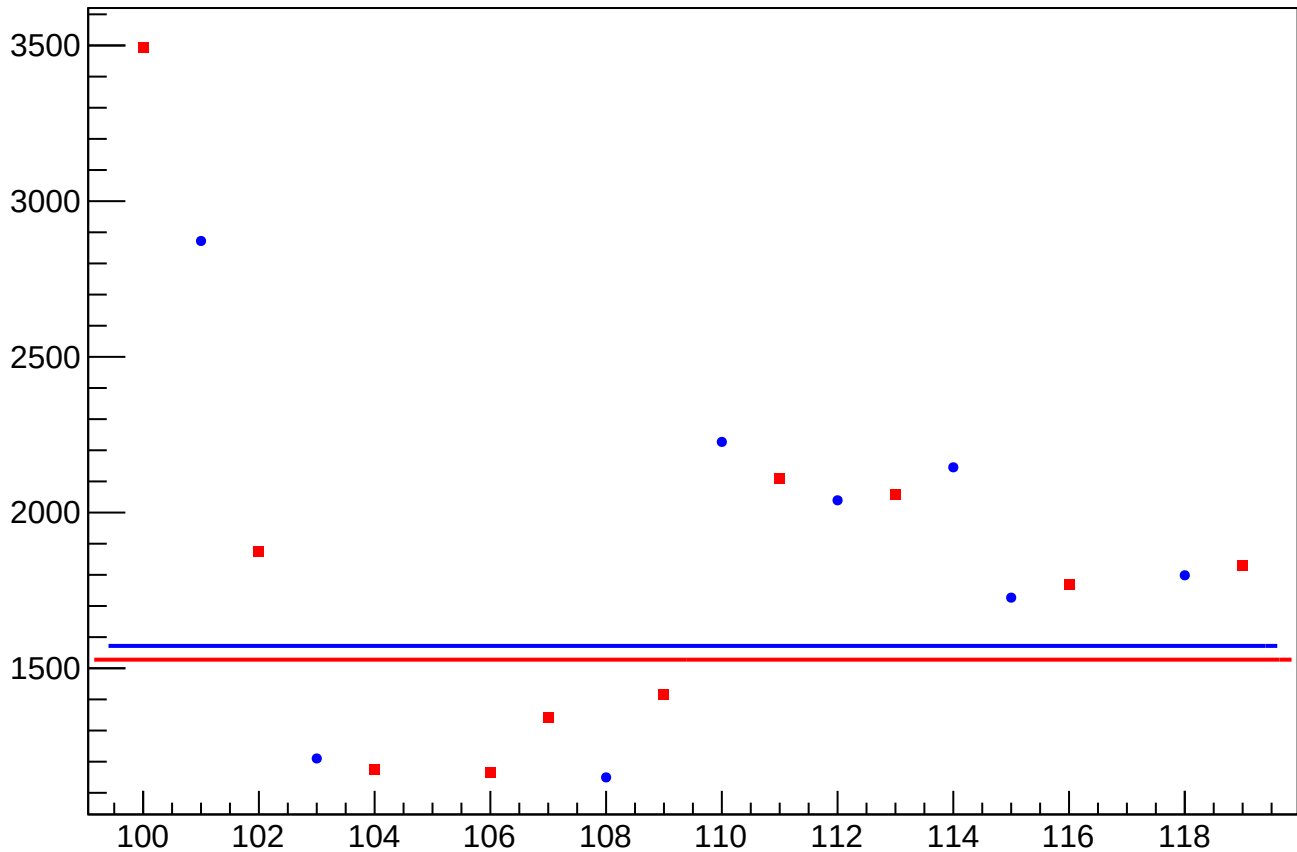
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -354.767+/-603.717  $\chi^2/\text{NDF}$ : 30.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1571.807+/-0.643  $\chi^2/\text{NDF}$ : 631847.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1527.605+/-0.571  $\chi^2/\text{NDF}$ : 403466.2/9

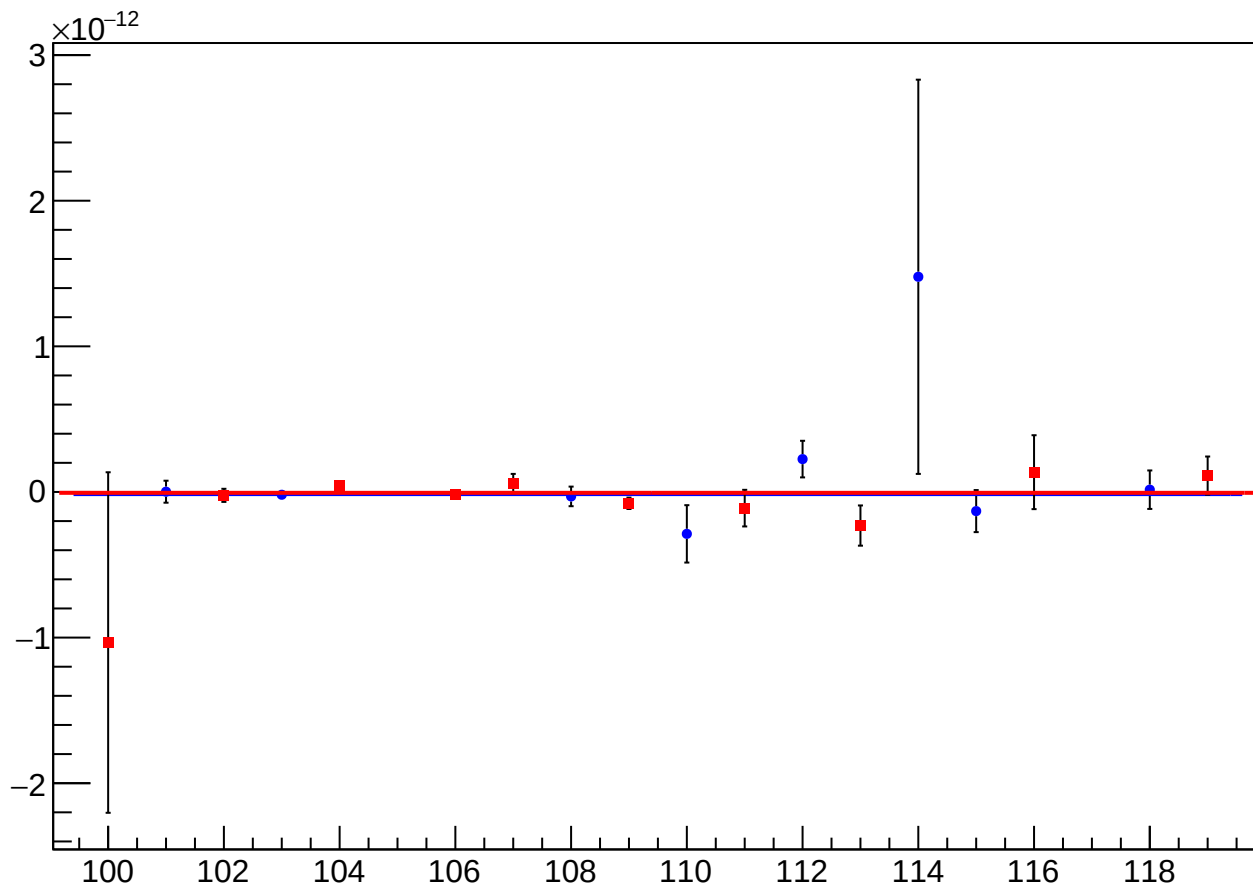
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1547.081+/-0.427  $\chi^2/\text{NDF}$ : 1037956.5/17

- 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  $\chi^2/\text{NDF}$ : 7.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.2/9

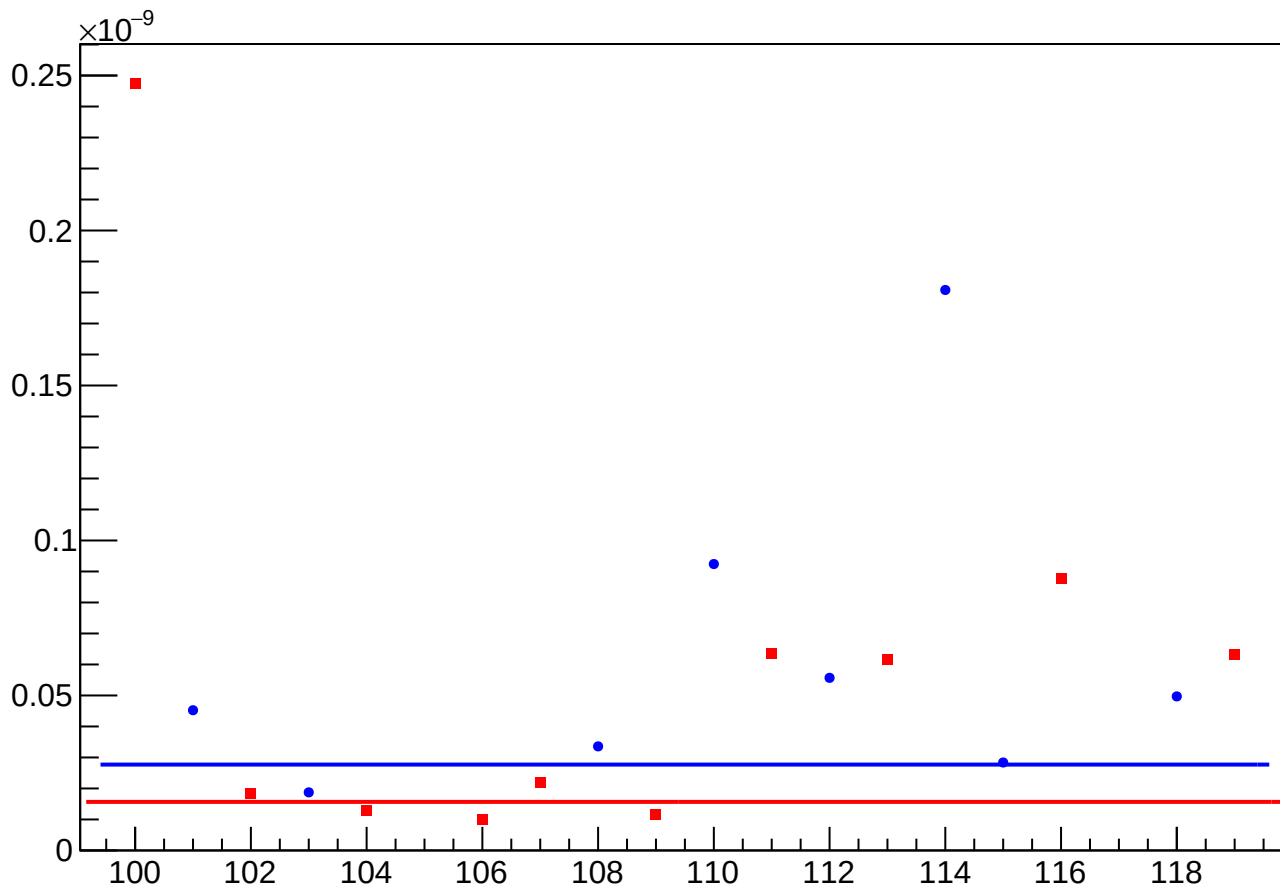
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 21.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 683719.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1153683.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

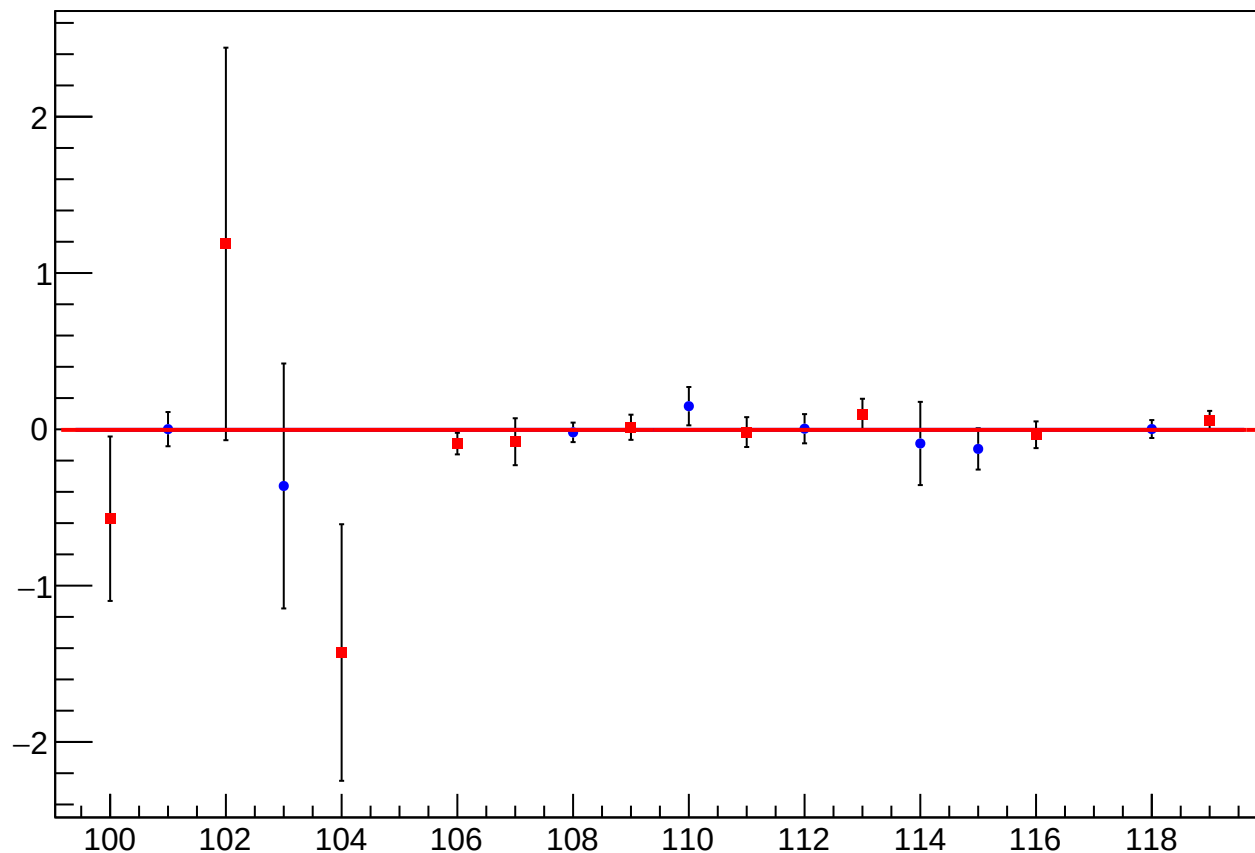
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2167451.9/17

- 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:  $-0.003 \pm 0.033$   $\chi^2/\text{NDF}$ : 2.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.004 \pm 0.031$   $\chi^2/\text{NDF}$ : 9.3/9

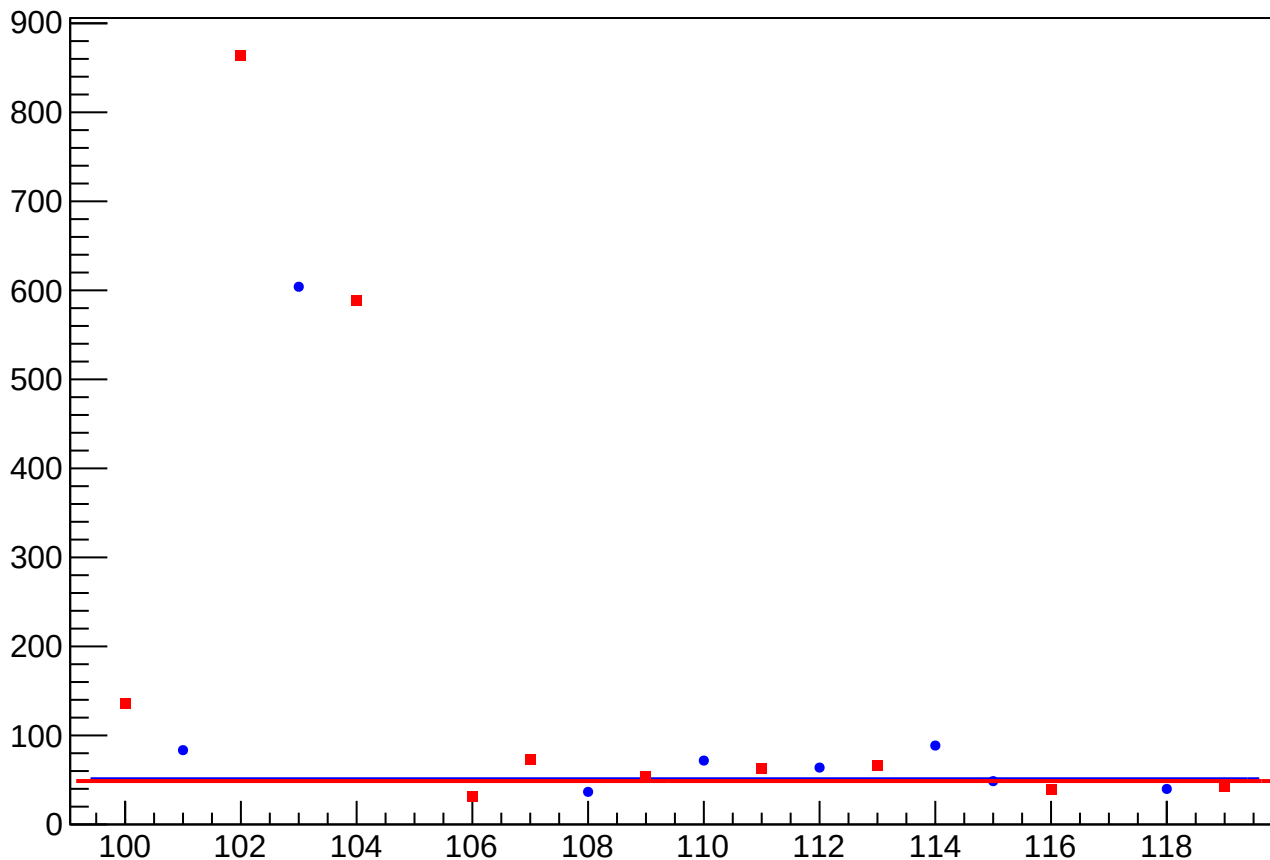
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.003 \pm 0.023$   $\chi^2/\text{NDF}$ : 12.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 50.764+/-0.024  $\chi^2/\text{NDF}$ : 1489510.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.761+/-0.022  $\chi^2/\text{NDF}$ : 2101725.4/9

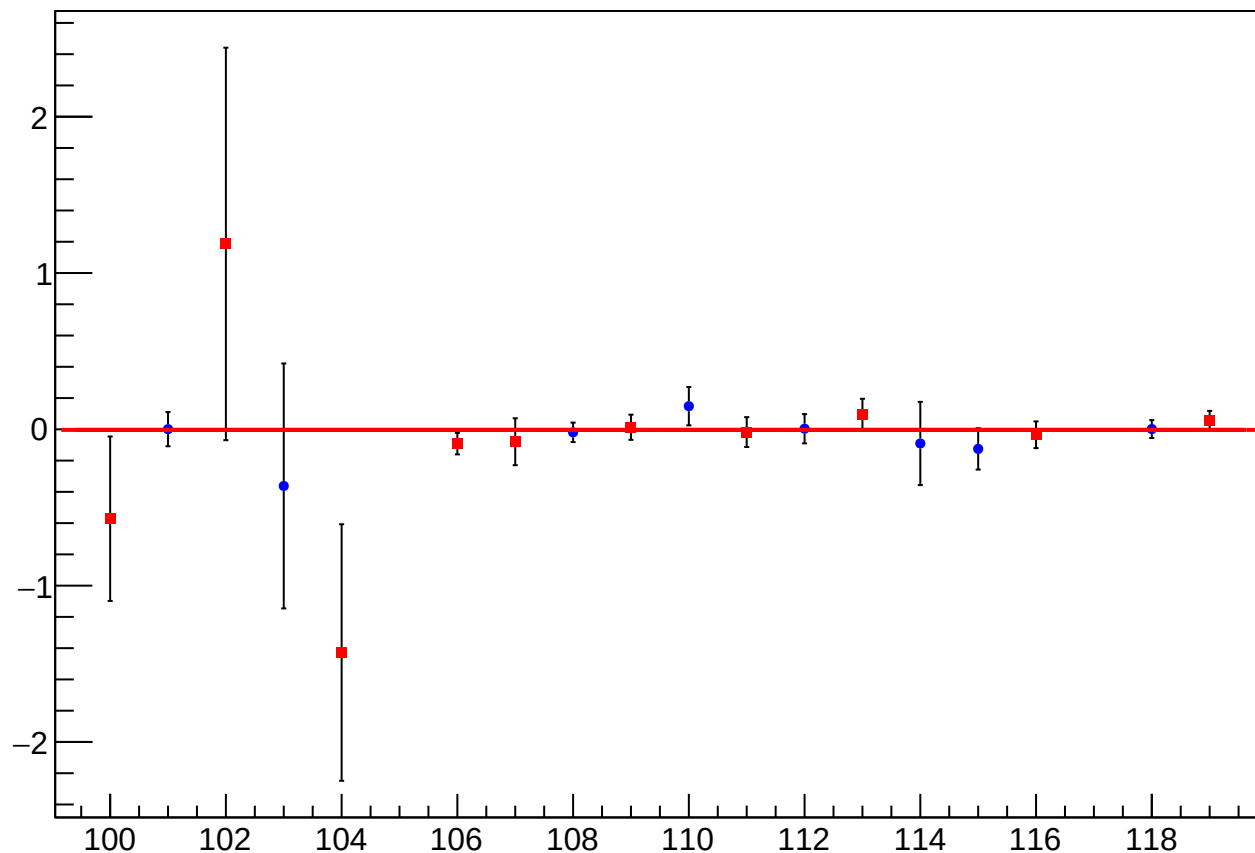
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.684+/-0.016  $\chi^2/\text{NDF}$ : 3595122.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.003 $\pm$ 0.033  $\chi^2$ /NDF: 2.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.004 $\pm$ 0.031  $\chi^2$ /NDF: 9.3/9

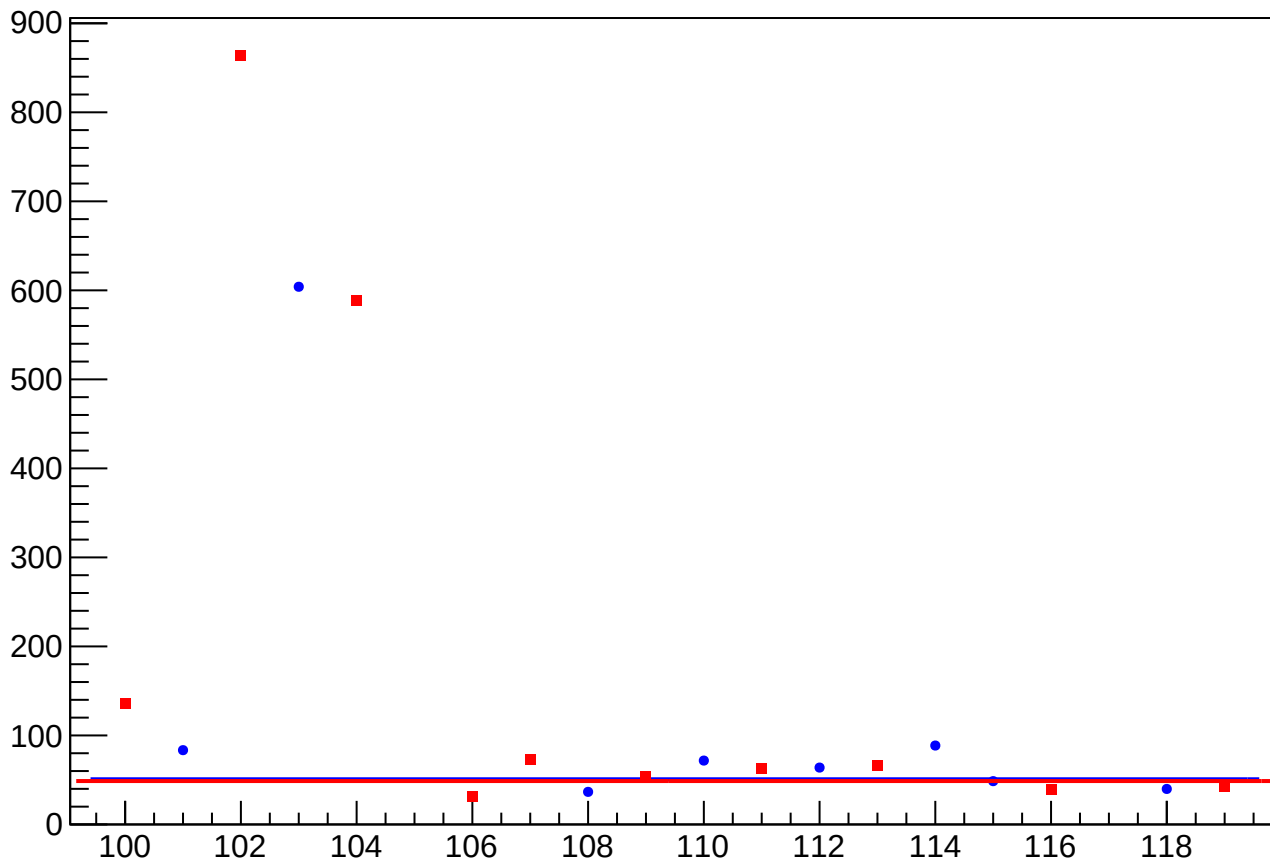
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.023  $\chi^2$ /NDF: 12.1/17

- 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: 50.764+/-0.024  $\chi^2/\text{NDF}$ : 1489510.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.761+/-0.022  $\chi^2/\text{NDF}$ : 2101725.4/9

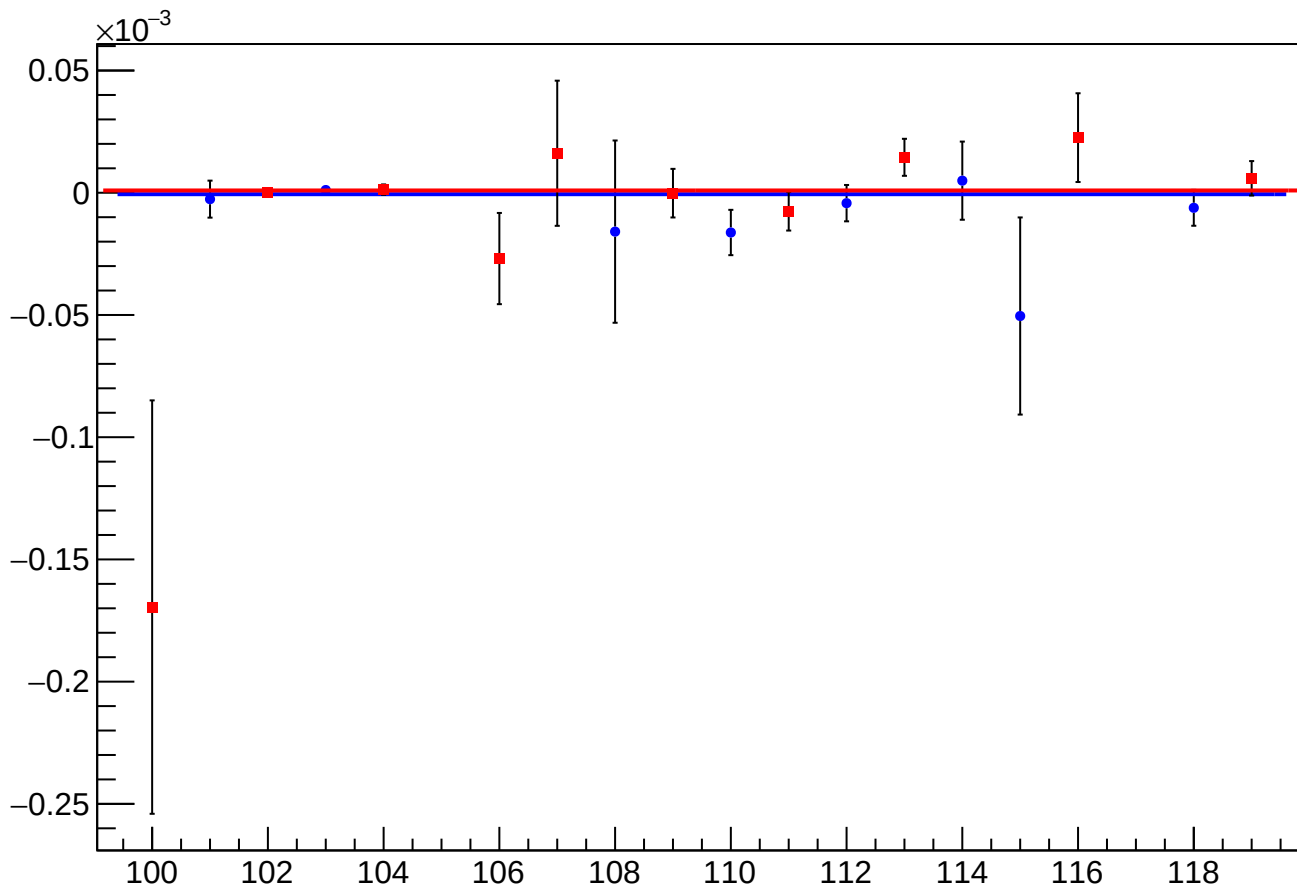
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.684+/-0.016  $\chi^2/\text{NDF}$ : 3595122.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.1/9

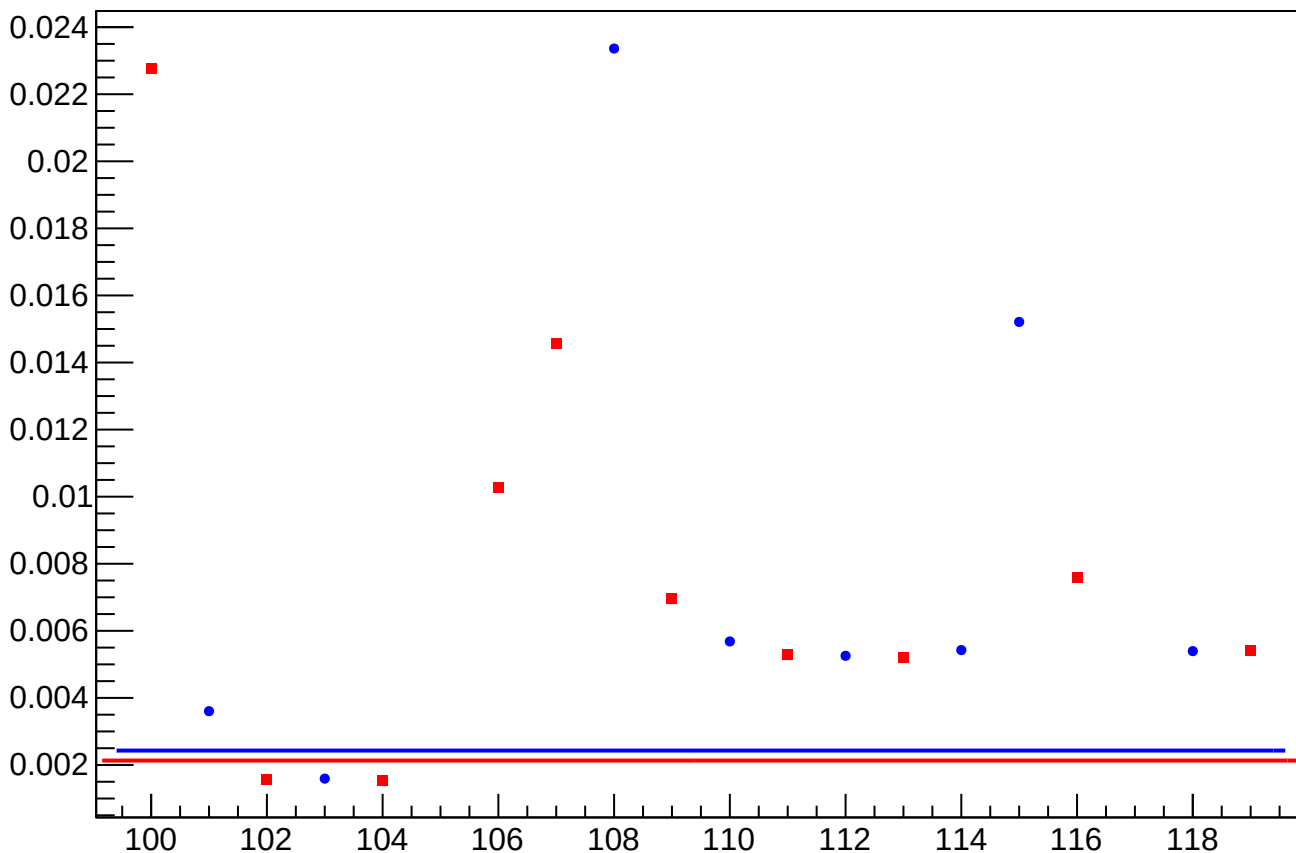
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.8/17

- sign 0.000 $\pm$ 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  $\chi^2/\text{NDF}$ : 2144441.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2910714.5/9

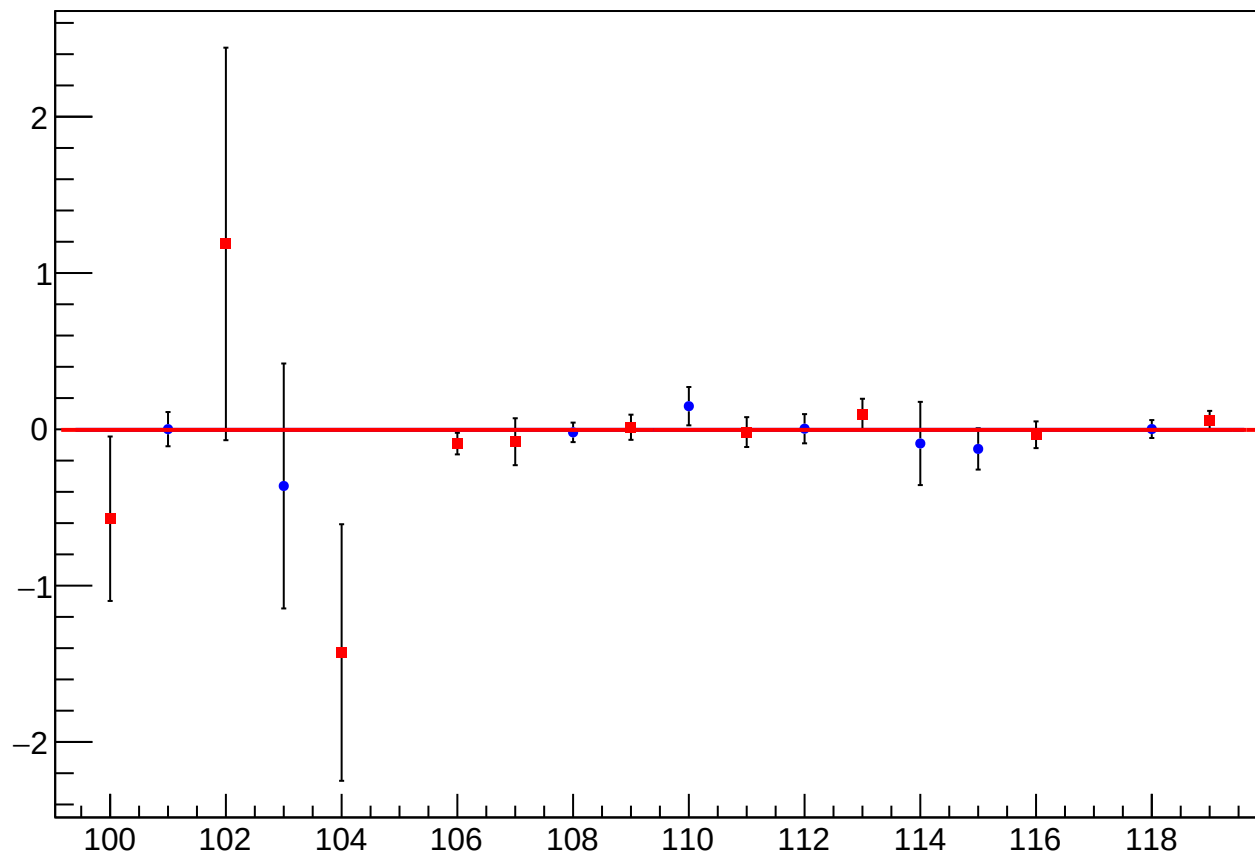
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 5090342.5/17

- 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: -0.003+/-0.033  $\chi^2/\text{NDF}$ : 2.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.004+/-0.031  $\chi^2/\text{NDF}$ : 9.3/9

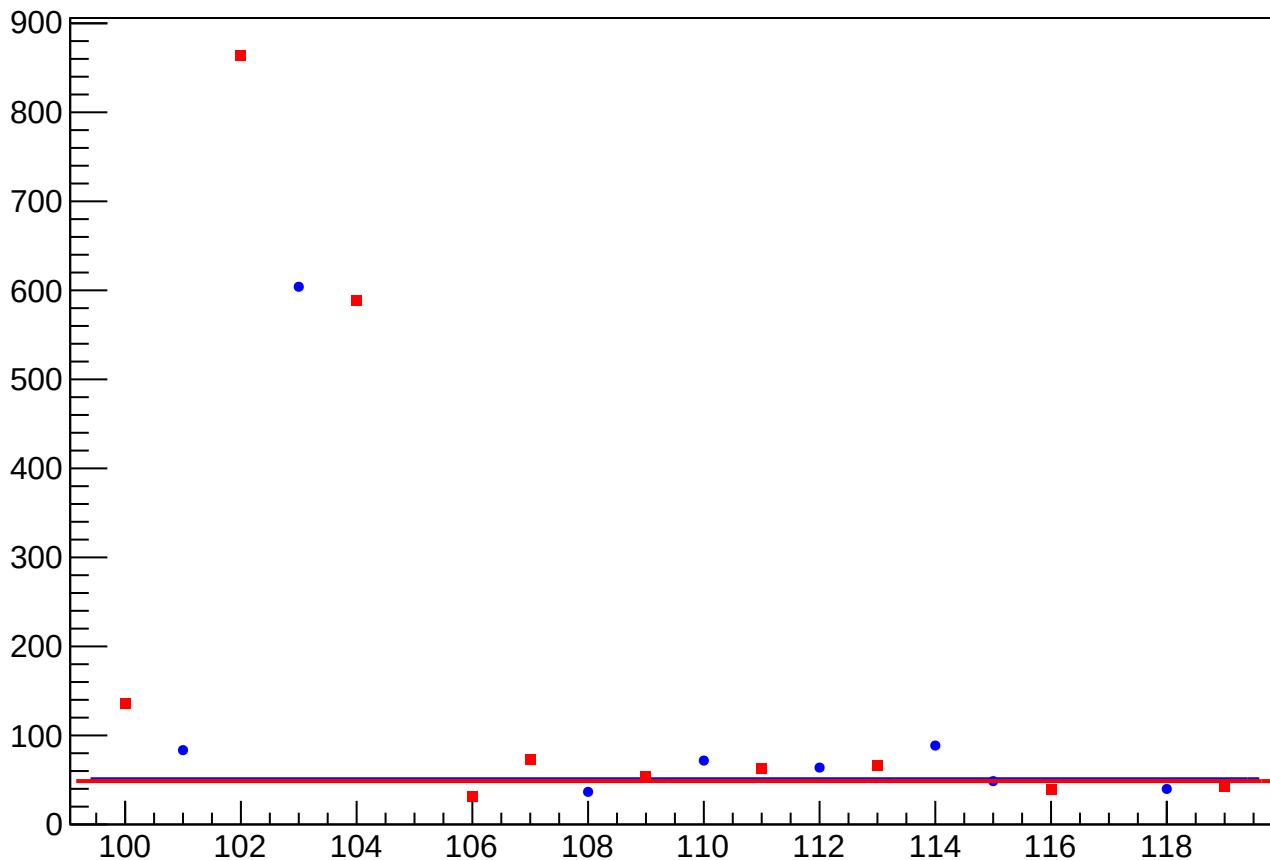
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.003+/-0.023  $\chi^2/\text{NDF}$ : 12.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 50.770 $\pm$ 0.024  $\chi^2$ /NDF: 1489250.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.763 $\pm$ 0.022  $\chi^2$ /NDF: 2101550.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

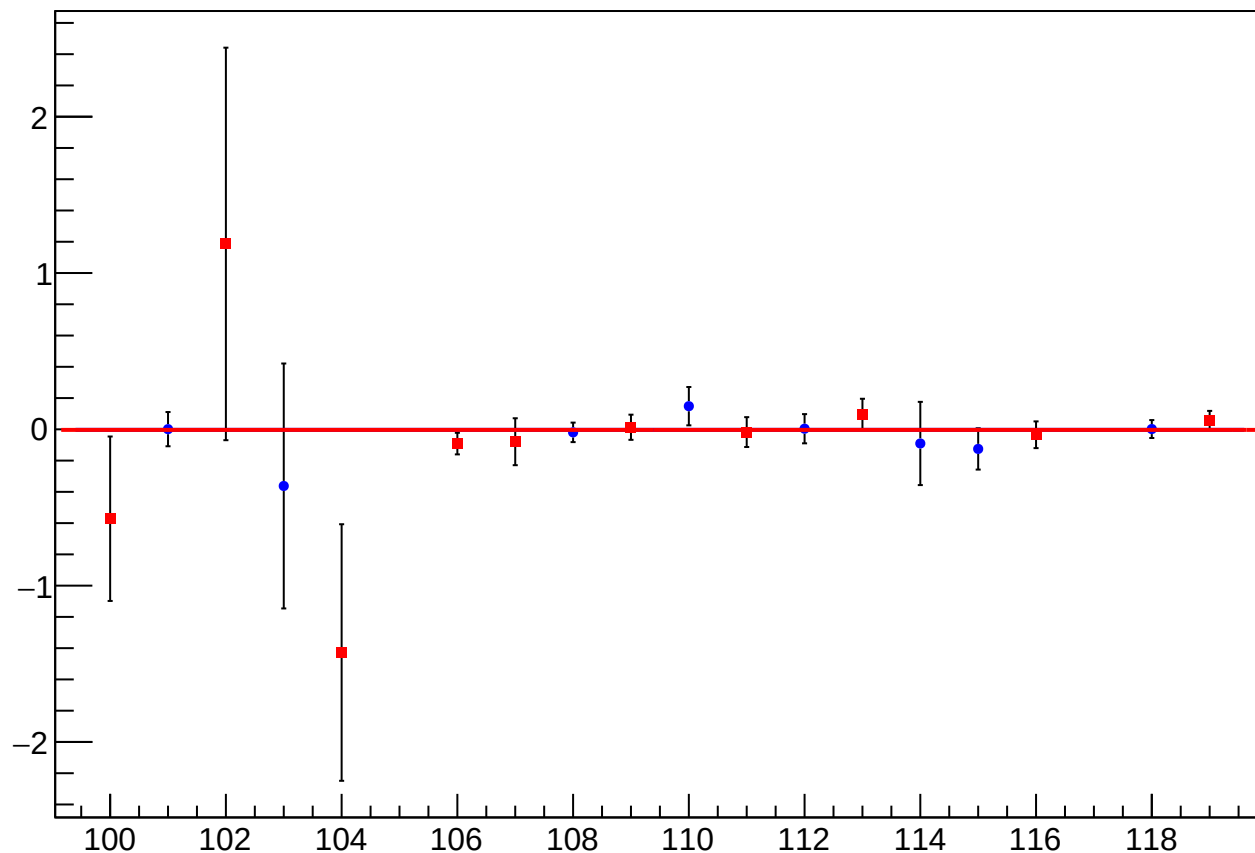
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 49.688 $\pm$ 0.016  $\chi^2$ /NDF: 3594702.8/17

- 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:  $-0.003 \pm 0.033$   $\chi^2/\text{NDF}$ : 2.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.004 \pm 0.031$   $\chi^2/\text{NDF}$ : 9.3/9

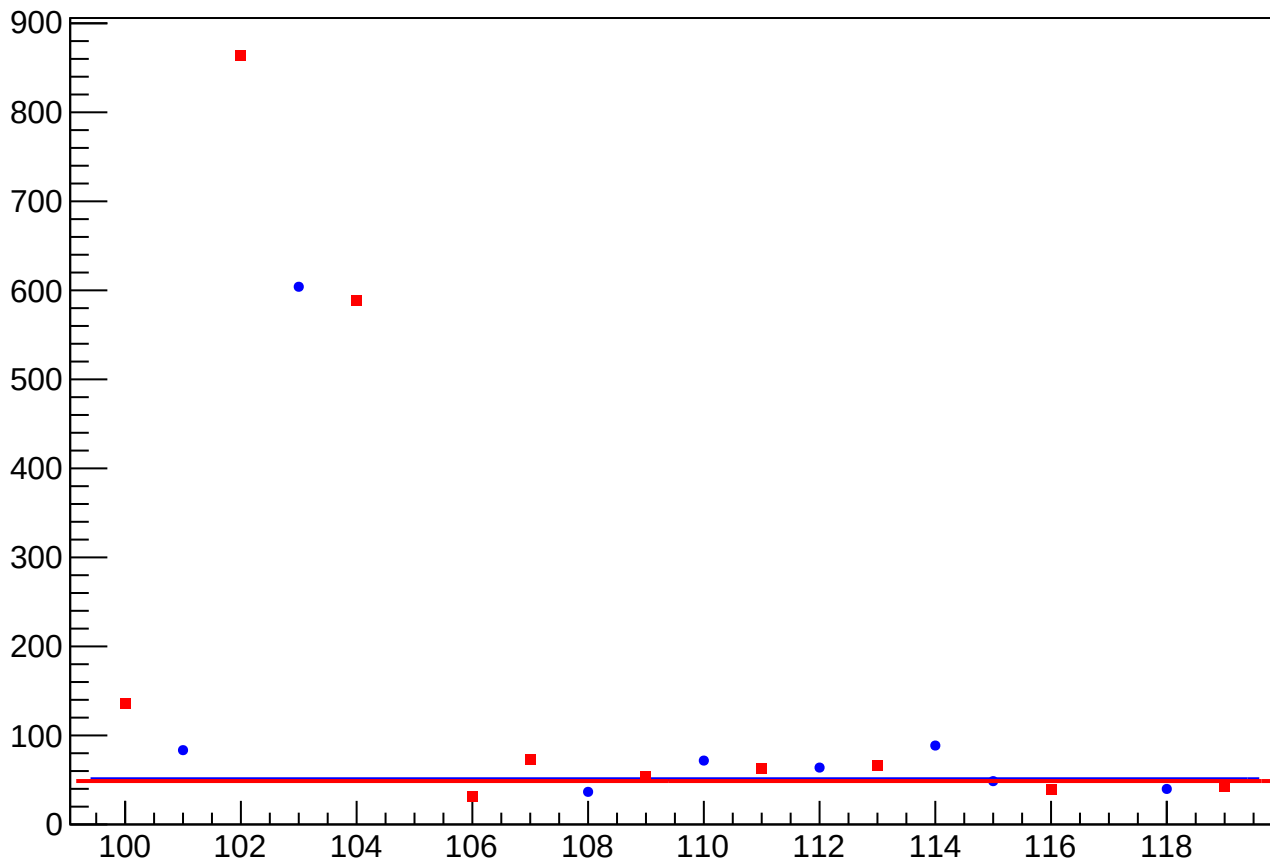
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.003 \pm 0.023$   $\chi^2/\text{NDF}$ : 12.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 50.770 $\pm$ 0.024  $\chi^2$ /NDF: 1489250.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.763 $\pm$ 0.022  $\chi^2$ /NDF: 2101550.1/9

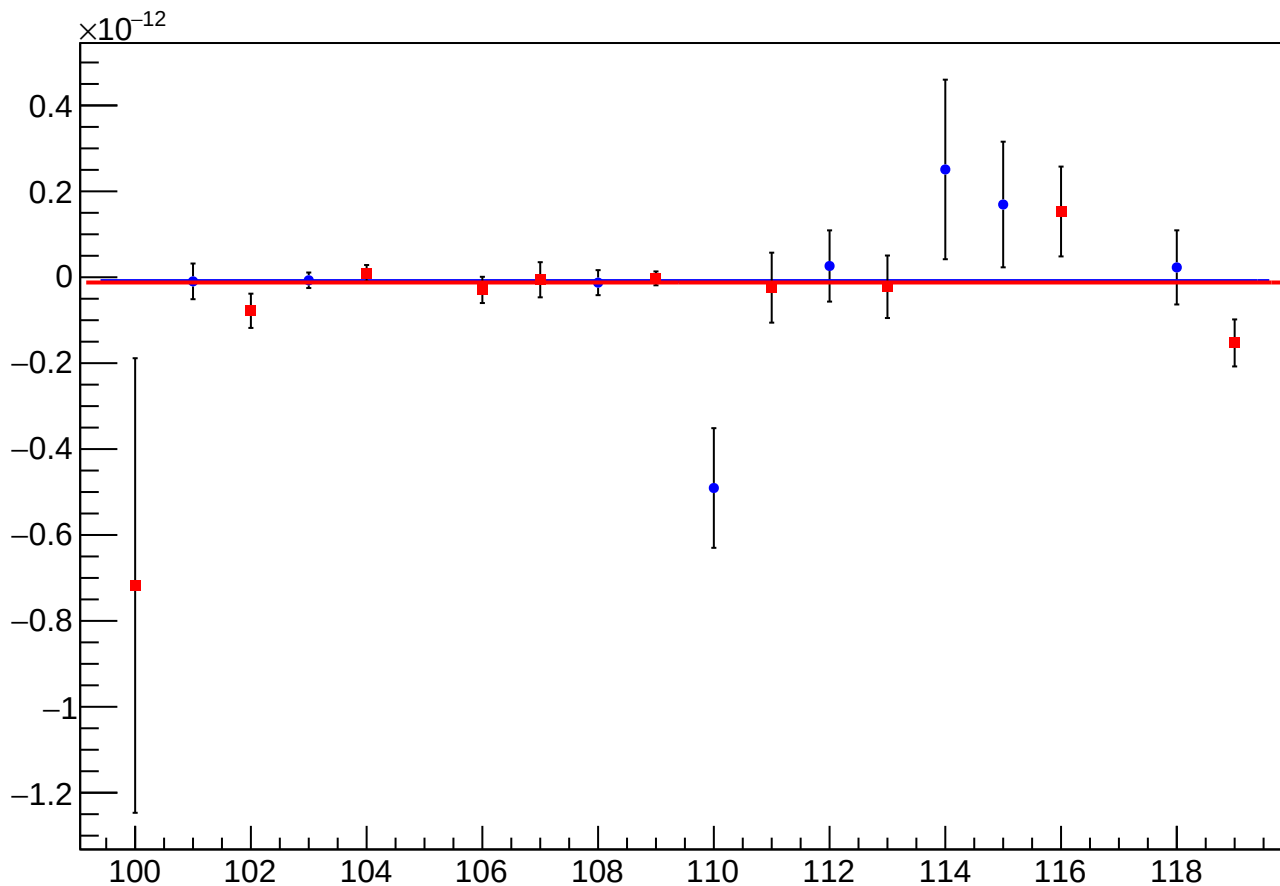
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 49.688 $\pm$ 0.016  $\chi^2$ /NDF: 3594702.8/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 15.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.6/9

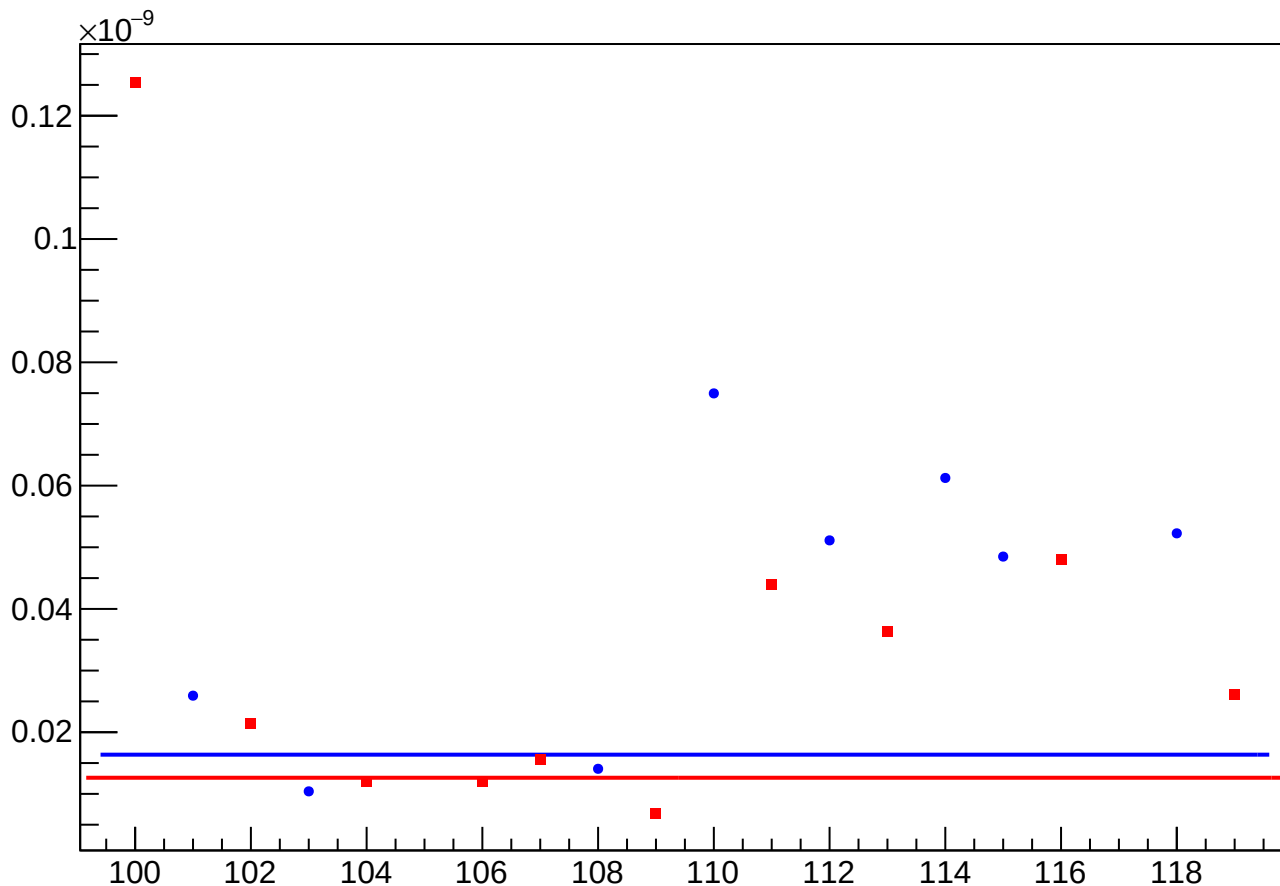
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 31.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1576391.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1323971.6/9

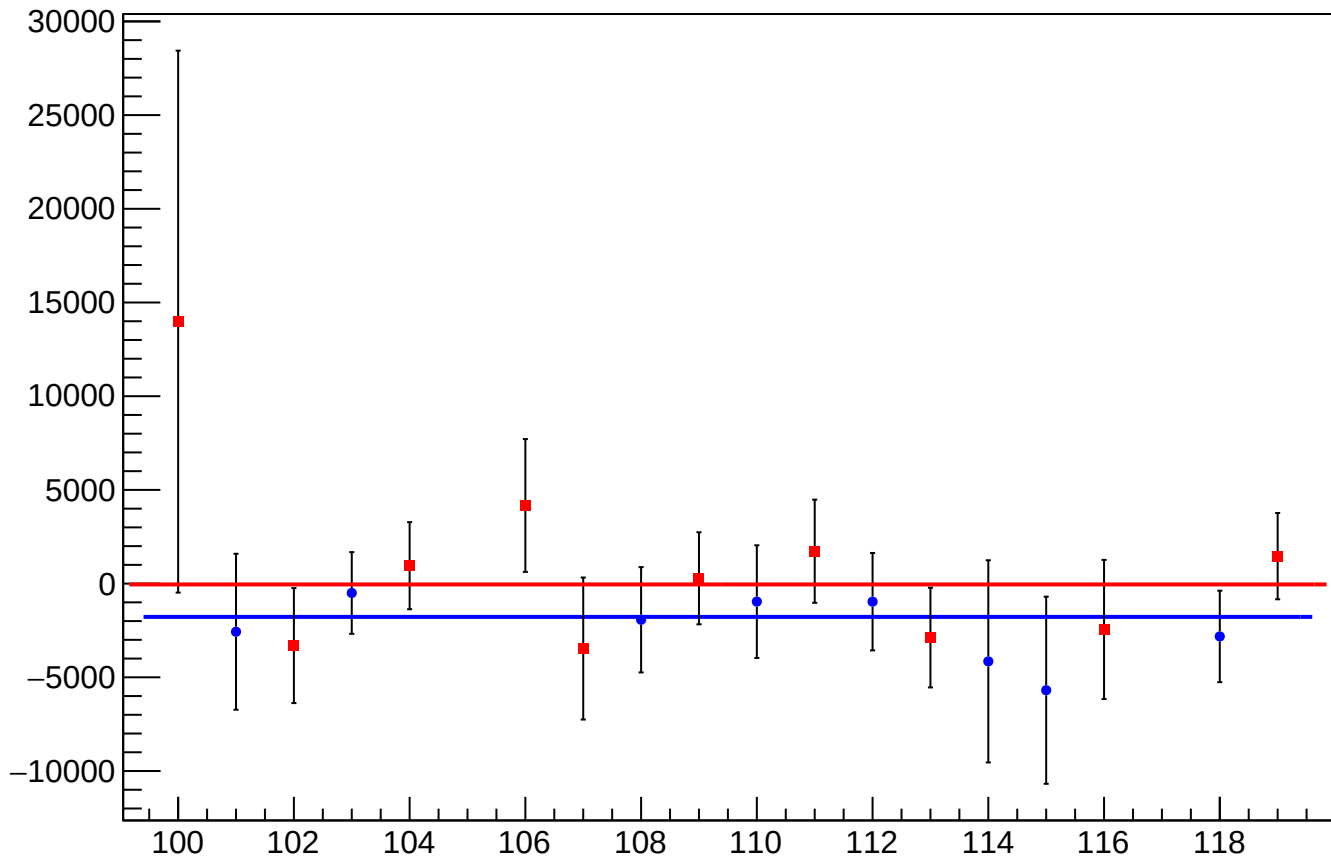
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2995167.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1775.708+/-1056.589  $\chi^2/\text{NDF}$ : 1.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -43.348+/-934.278  $\chi^2/\text{NDF}$ : 6.9/9

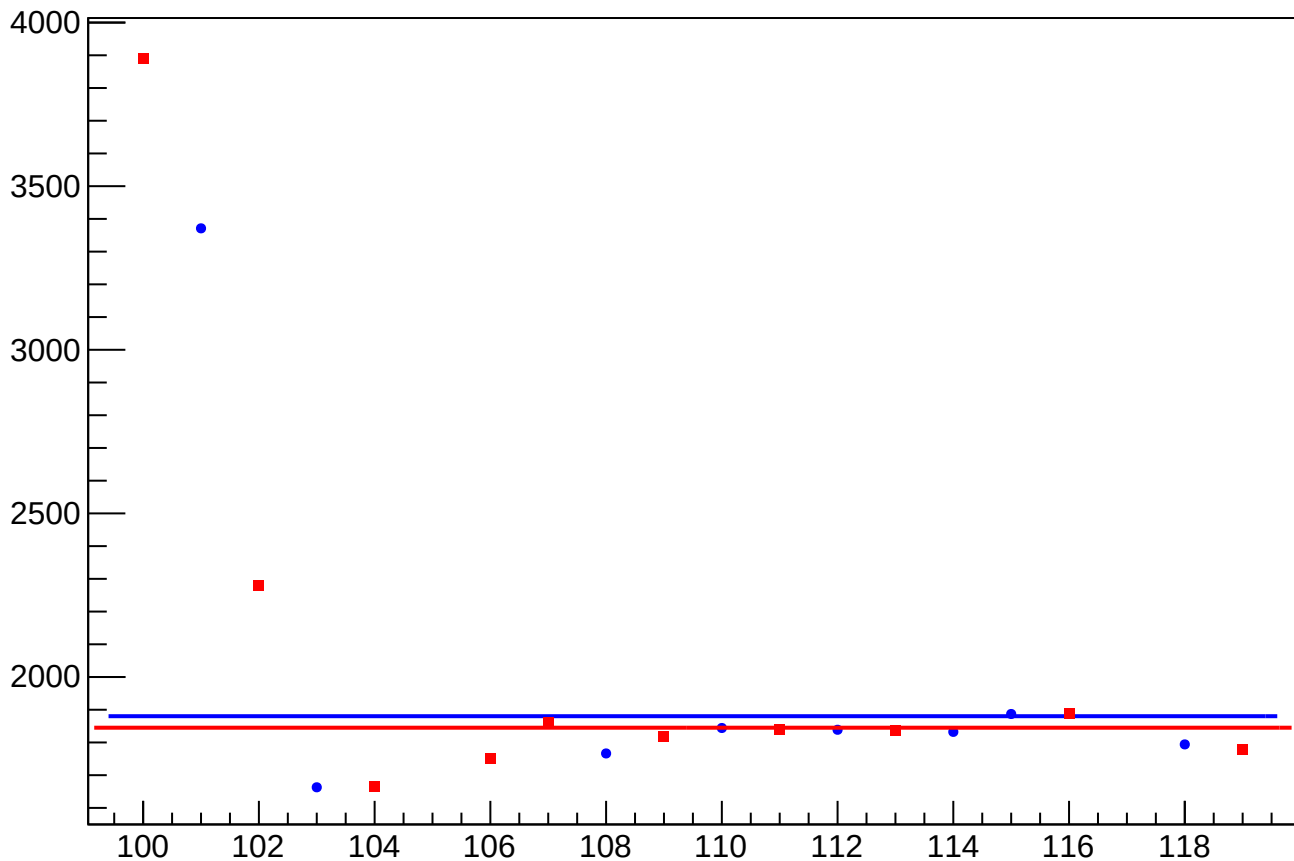
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -803.498+/-699.901  $\chi^2/\text{NDF}$ : 10.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 1880.253+/-0.747  $\chi^2/\text{NDF}$ : 283243.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1845.090+/-0.661  $\chi^2/\text{NDF}$ : 95902.6/9

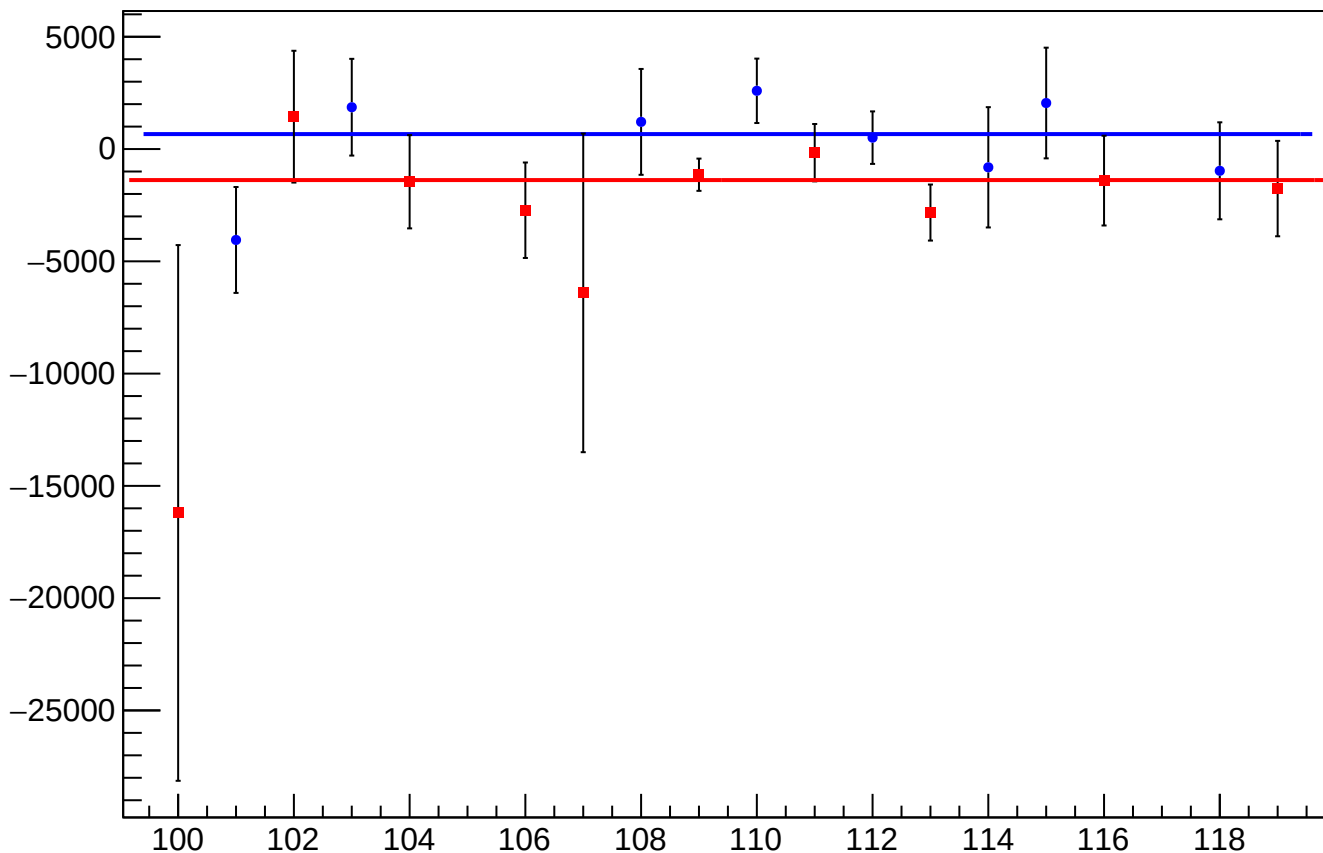
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1860.519+/-0.495  $\chi^2/\text{NDF}$ : 380389.5/17

- 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: 666.262 $\pm$ 657.753  $\chi^2$ /NDF: 7.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1381.498 $\pm$ 484.273  $\chi^2$ /NDF: 5.8/9

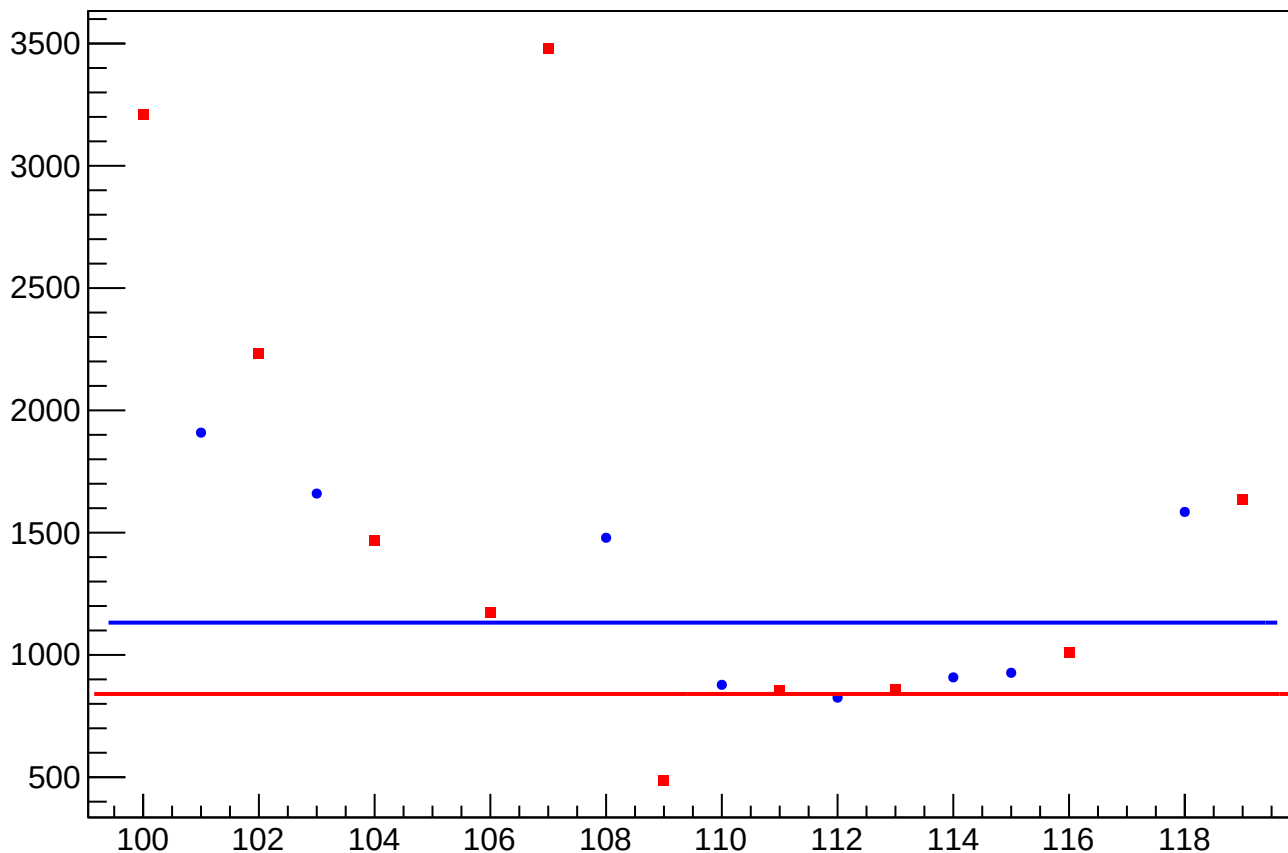
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -661.669 $\pm$ 389.976  $\chi^2$ /NDF: 19.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_reg\_correction\_rms vs Slug



Right In: 1132.093+/-0.465  $\chi^2/\text{NDF}$ : 696672.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 840.369+/-0.342  $\chi^2/\text{NDF}$ : 1820288.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

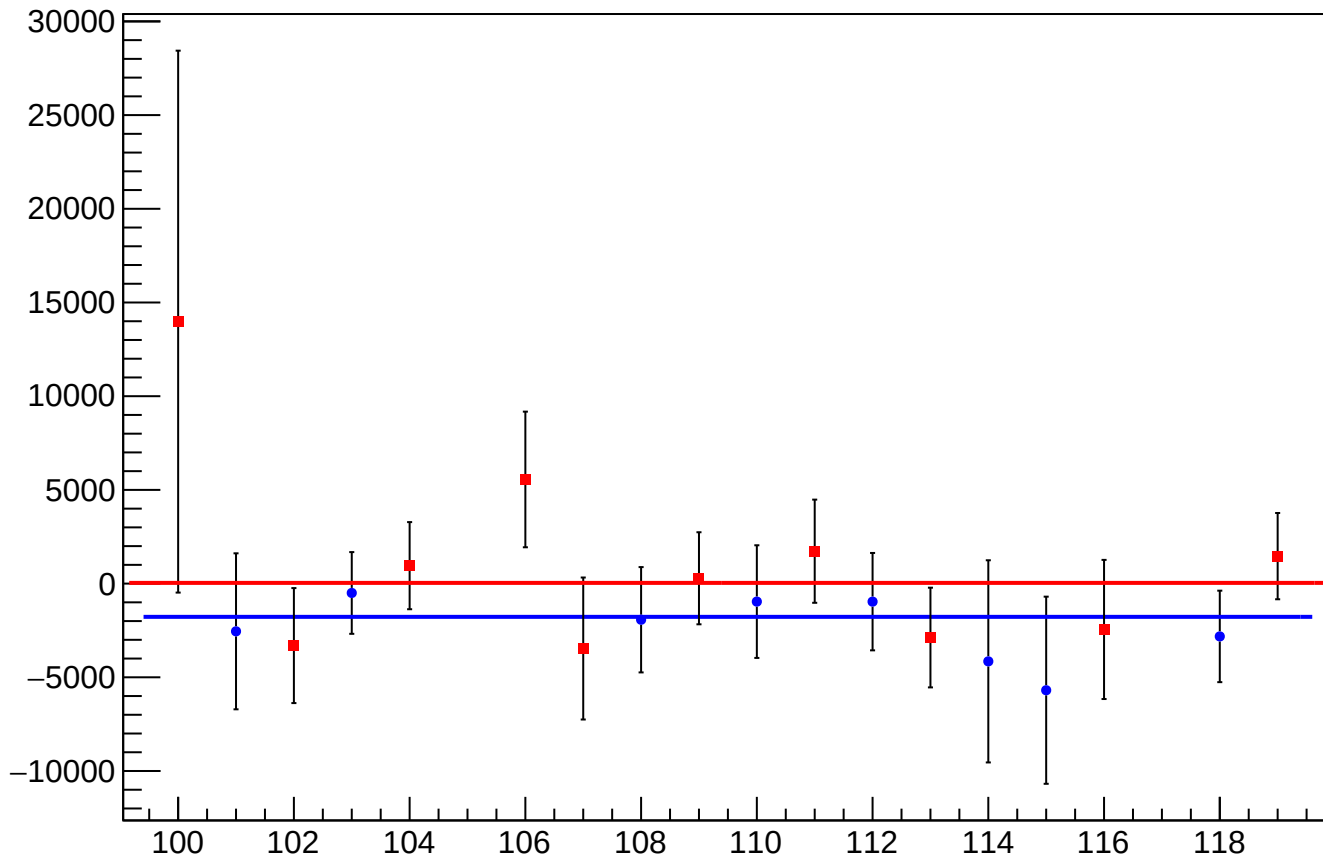
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 942.916+/-0.276  $\chi^2/\text{NDF}$ : 2772081.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



cor\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1774.227+/-1056.590  $\chi^2/\text{NDF}$ : 1.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.574+/-935.605  $\chi^2/\text{NDF}$ : 7.9/9

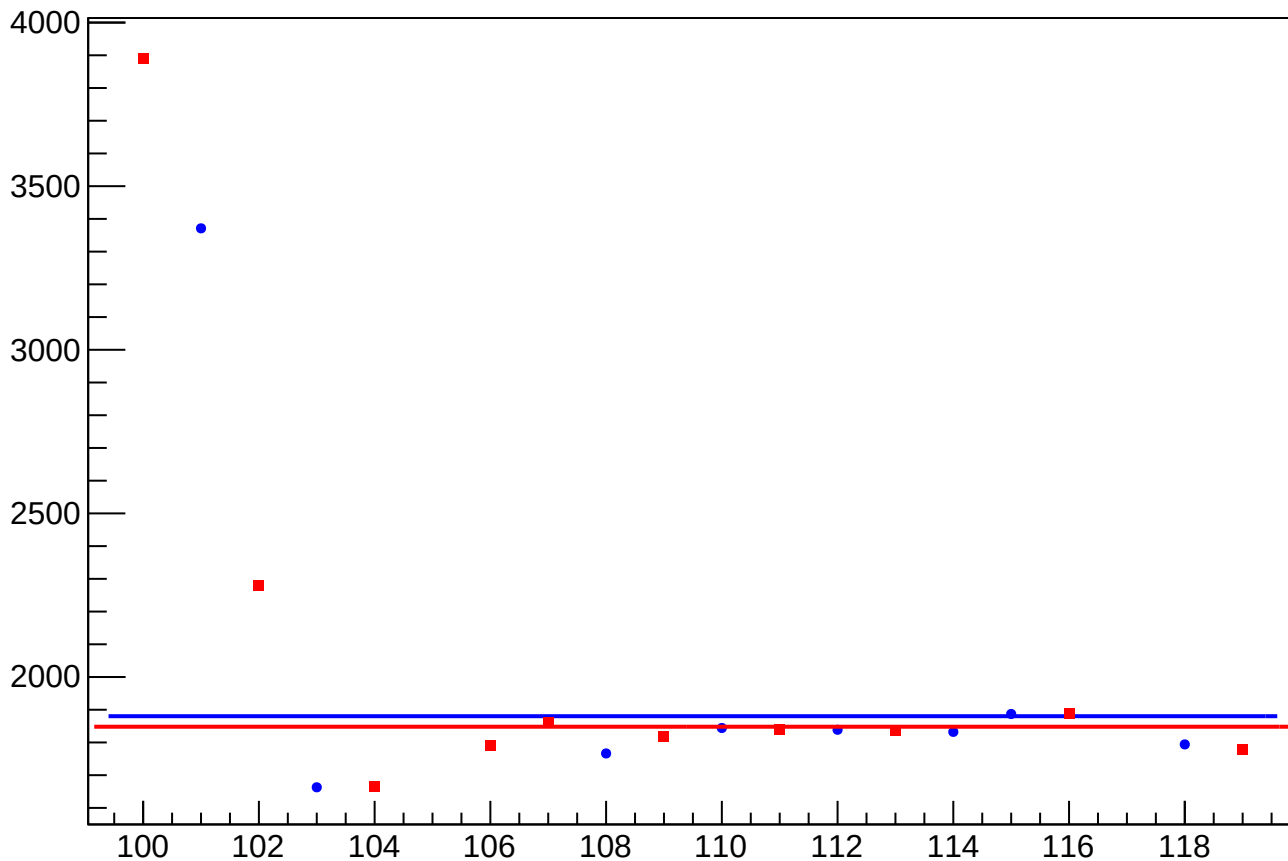
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -758.702+/-700.459  $\chi^2/\text{NDF}$ : 11.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 1880.253+/-0.747  $\chi^2/\text{NDF}$ : 283245.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1848.091+/-0.662  $\chi^2/\text{NDF}$ : 94899.7/9

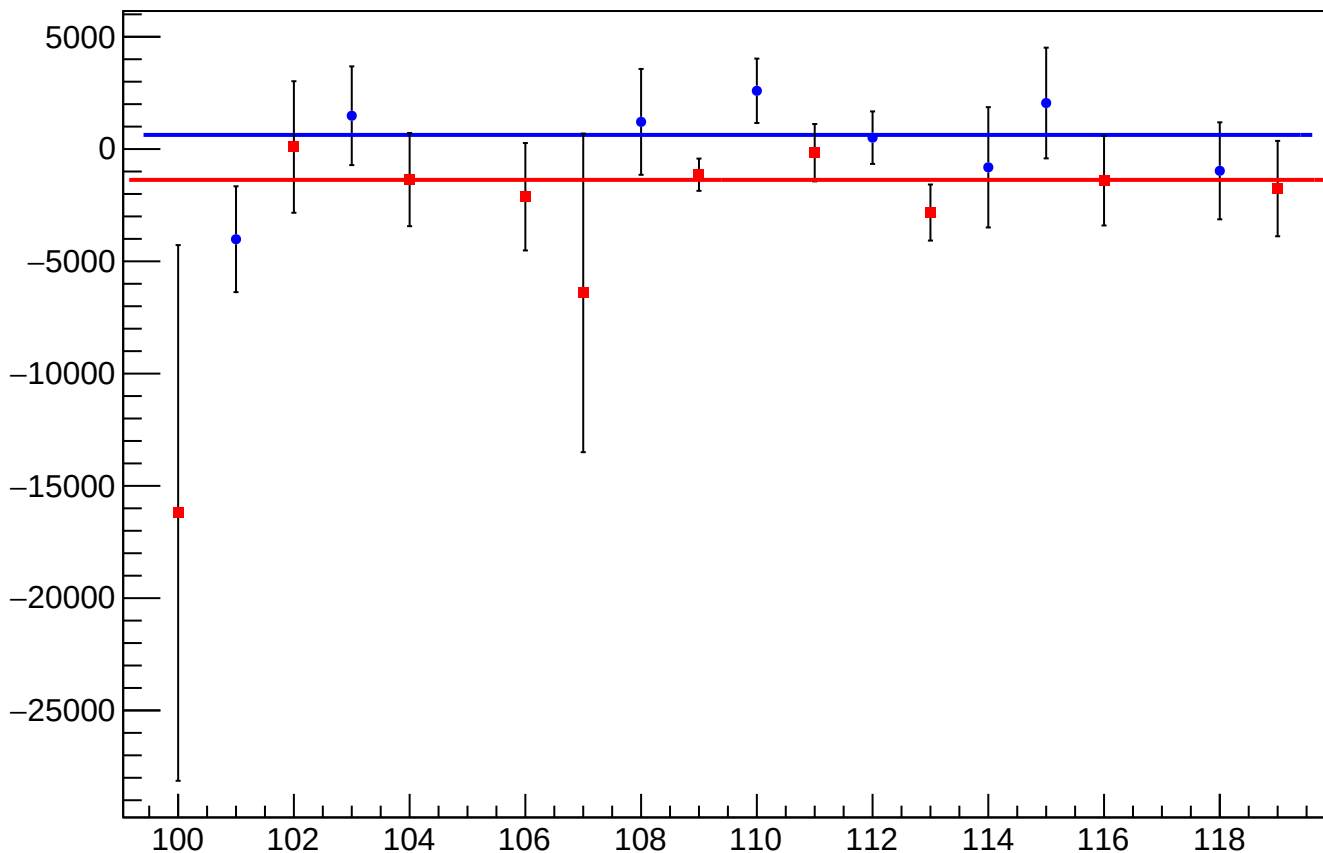
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1862.226+/-0.495  $\chi^2/\text{NDF}$ : 379184.2/17

- 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: 629.905 $\pm$ 658.968  $\chi^2$ /NDF: 7.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1372.907 $\pm$ 486.875  $\chi^2$ /NDF: 4.8/9

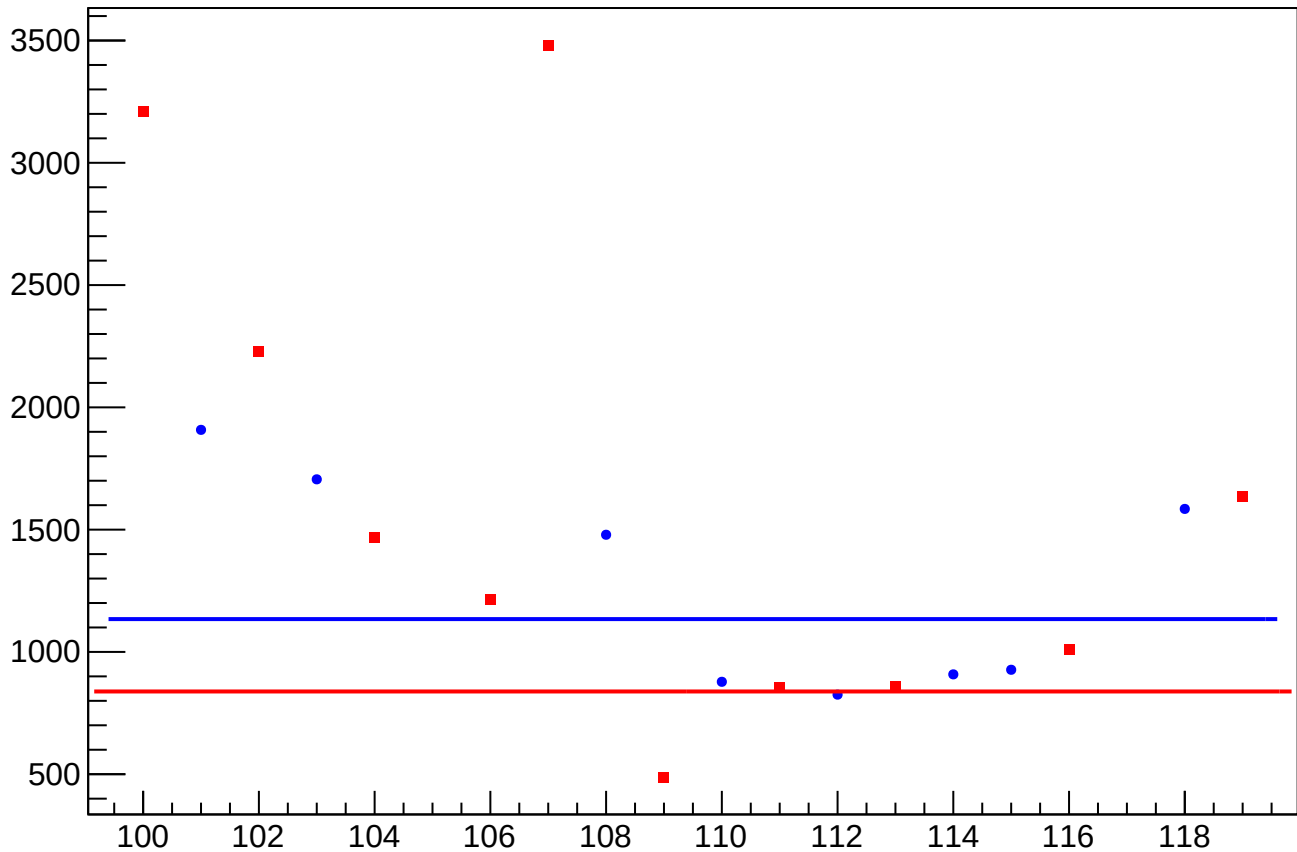
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -665.666 $\pm$ 391.587  $\chi^2$ /NDF: 17.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_cor\_correction\_rms vs Slug



Right In: 1134.225+/-0.466  $\chi^2/\text{NDF}$ : 712436.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 838.297+/-0.344  $\chi^2/\text{NDF}$ : 1818162.8/9

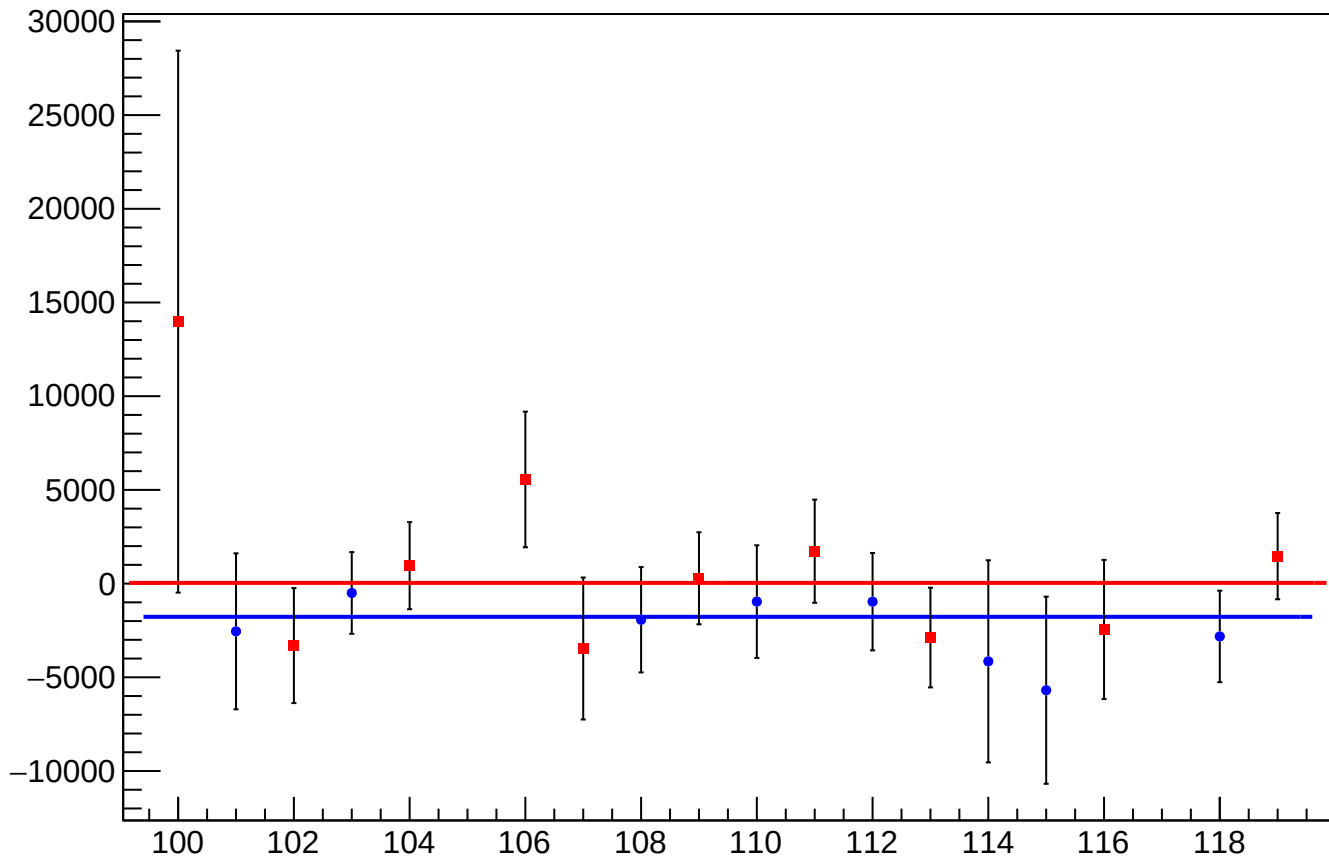
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 942.797+/-0.277  $\chi^2/\text{NDF}$ : 2791511.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1774.227+/-1056.590  $\chi^2/\text{NDF}$ : 1.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.574+/-935.605  $\chi^2/\text{NDF}$ : 7.9/9

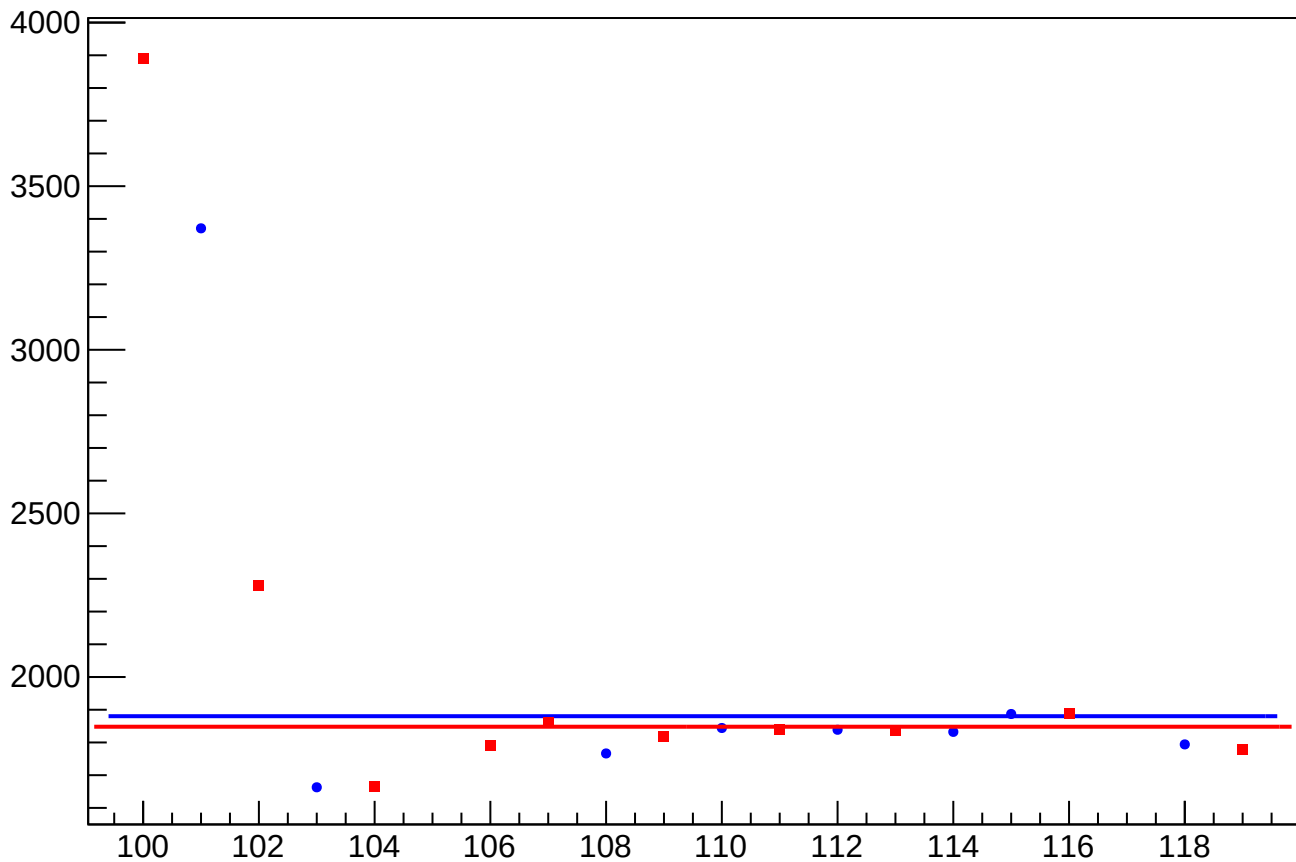
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -758.702+/-700.459  $\chi^2/\text{NDF}$ : 11.1/17

- 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: 1880.253+/-0.747  $\chi^2/\text{NDF}$ : 283245.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1848.091+/-0.662  $\chi^2/\text{NDF}$ : 94899.7/9

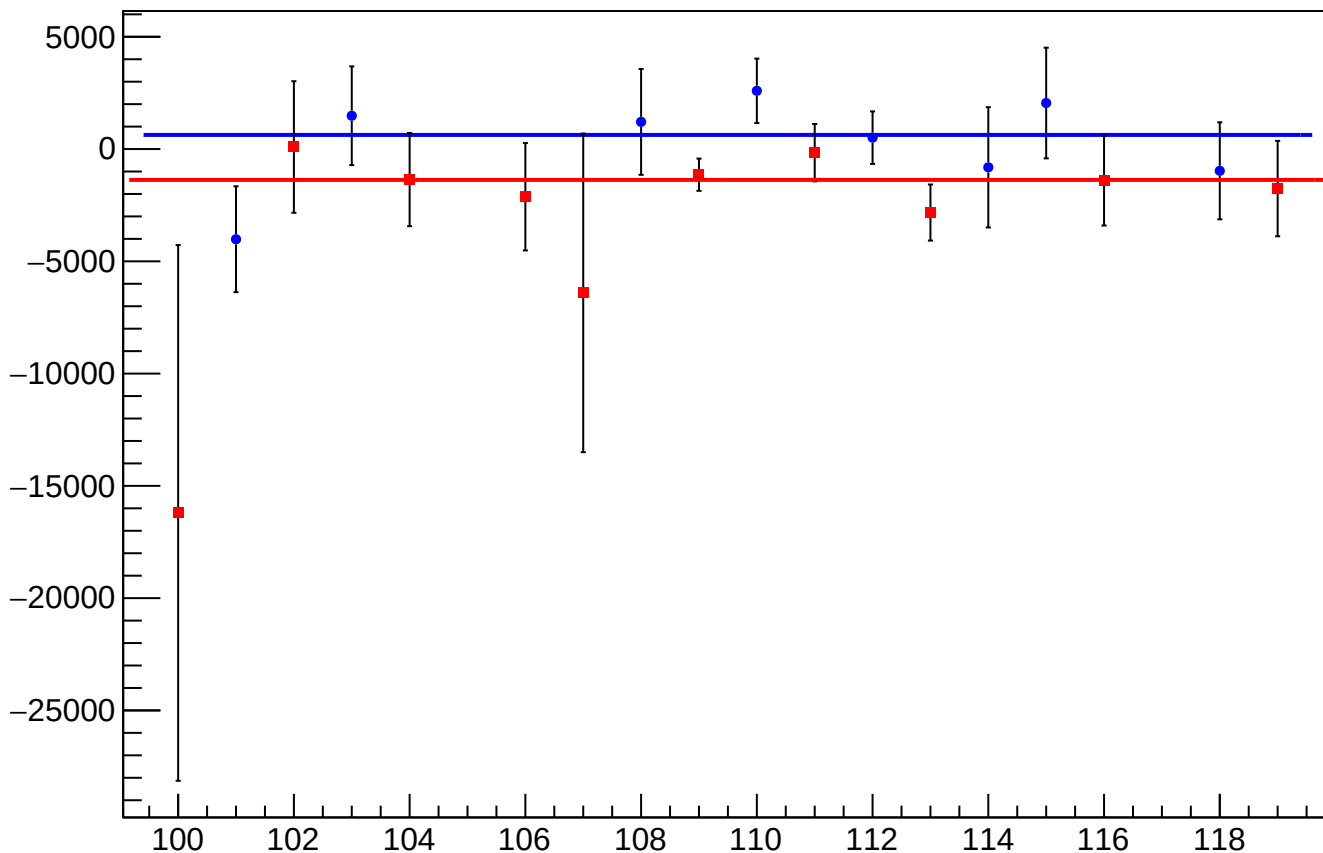
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1862.226+/-0.495  $\chi^2/\text{NDF}$ : 379184.2/17

- 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: 629.905+/-658.968  $\chi^2/\text{NDF}$ : 7.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1372.907+/-486.875  $\chi^2/\text{NDF}$ : 4.8/9

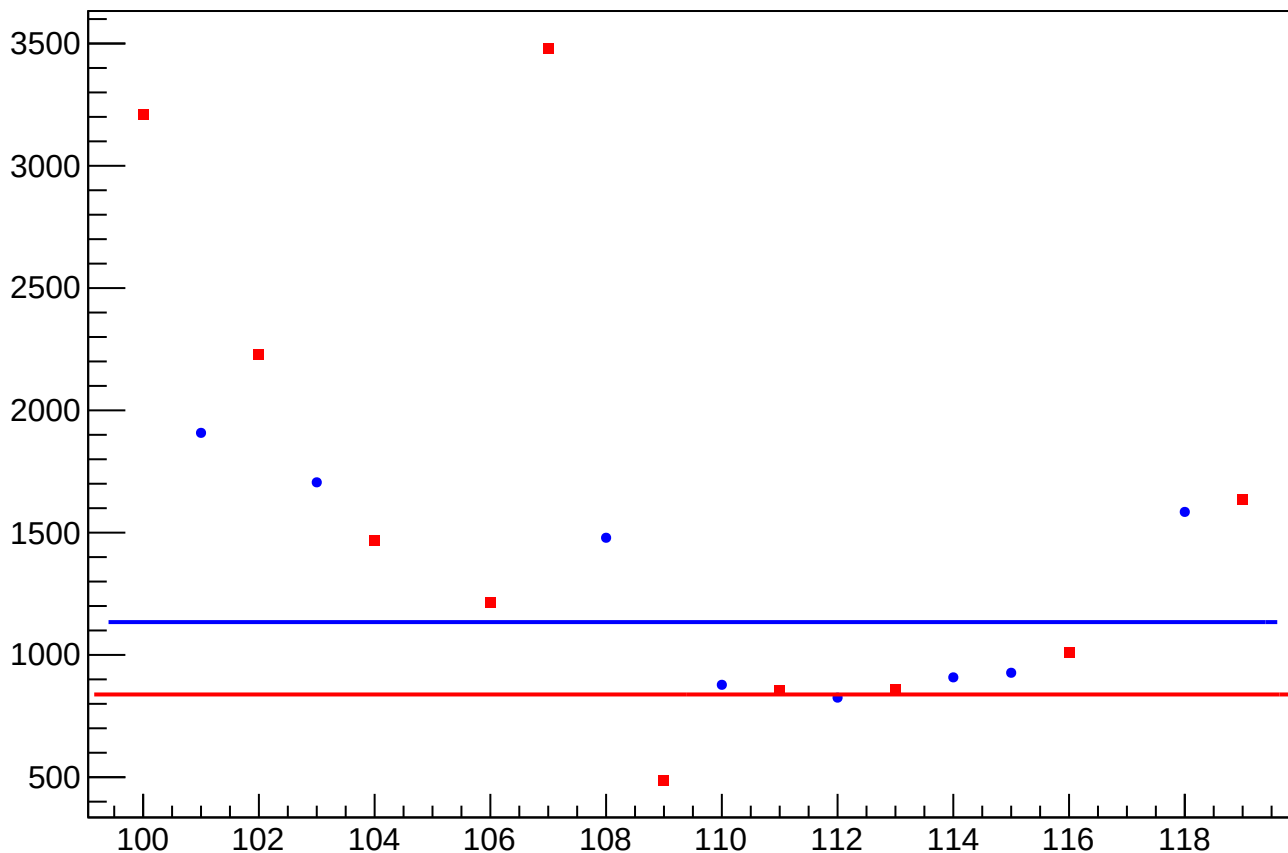
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -665.666+/-391.587  $\chi^2/\text{NDF}$ : 17.9/17

- 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: 1134.225+/-0.466  $\chi^2/\text{NDF}$ : 712436.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 838.297+/-0.344  $\chi^2/\text{NDF}$ : 1818162.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

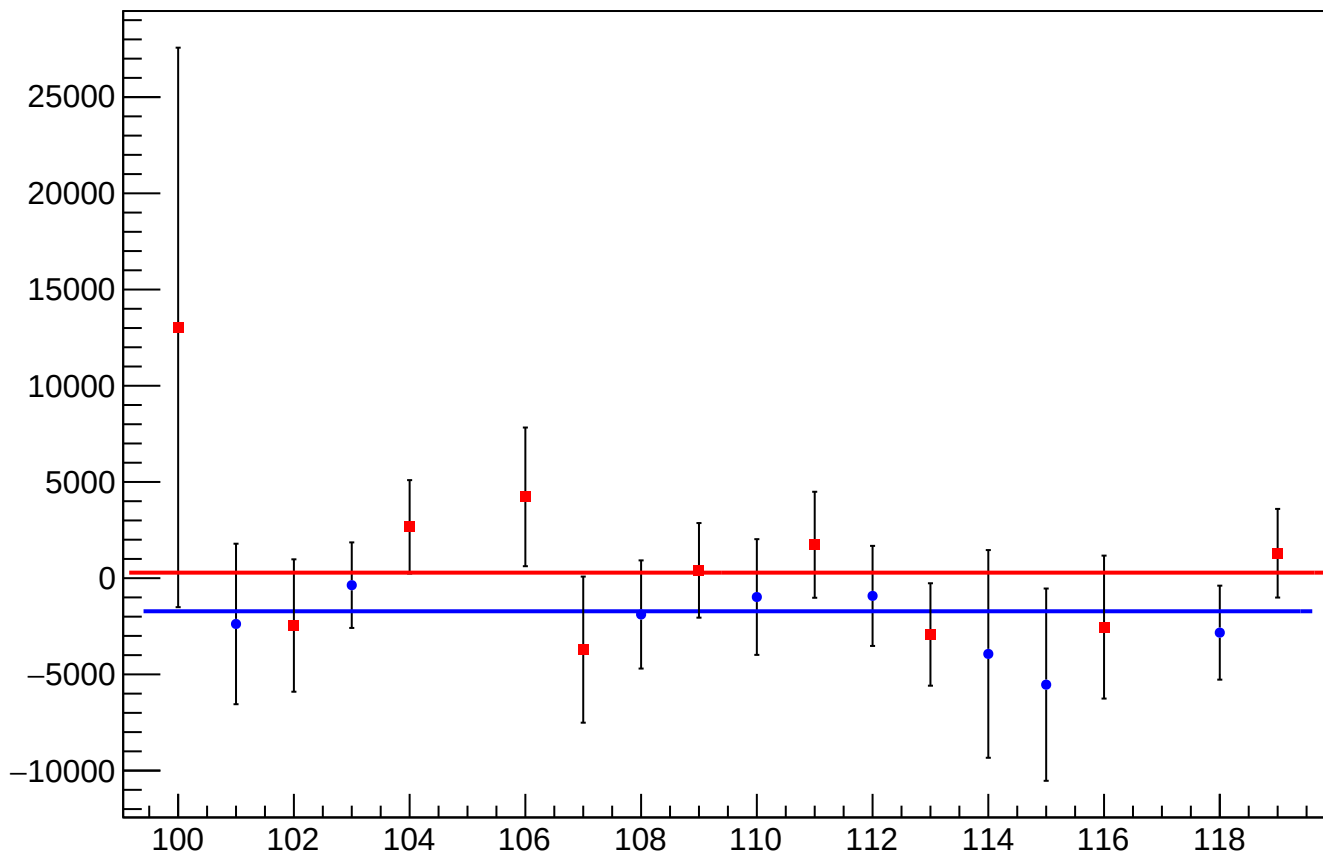
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 942.797+/-0.277  $\chi^2/\text{NDF}$ : 2791511.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In:  $-1719.732 \pm 1061.867$   $\chi^2/\text{NDF}: 1.5/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $287.242 \pm 951.492$   $\chi^2/\text{NDF}: 7.2/9$

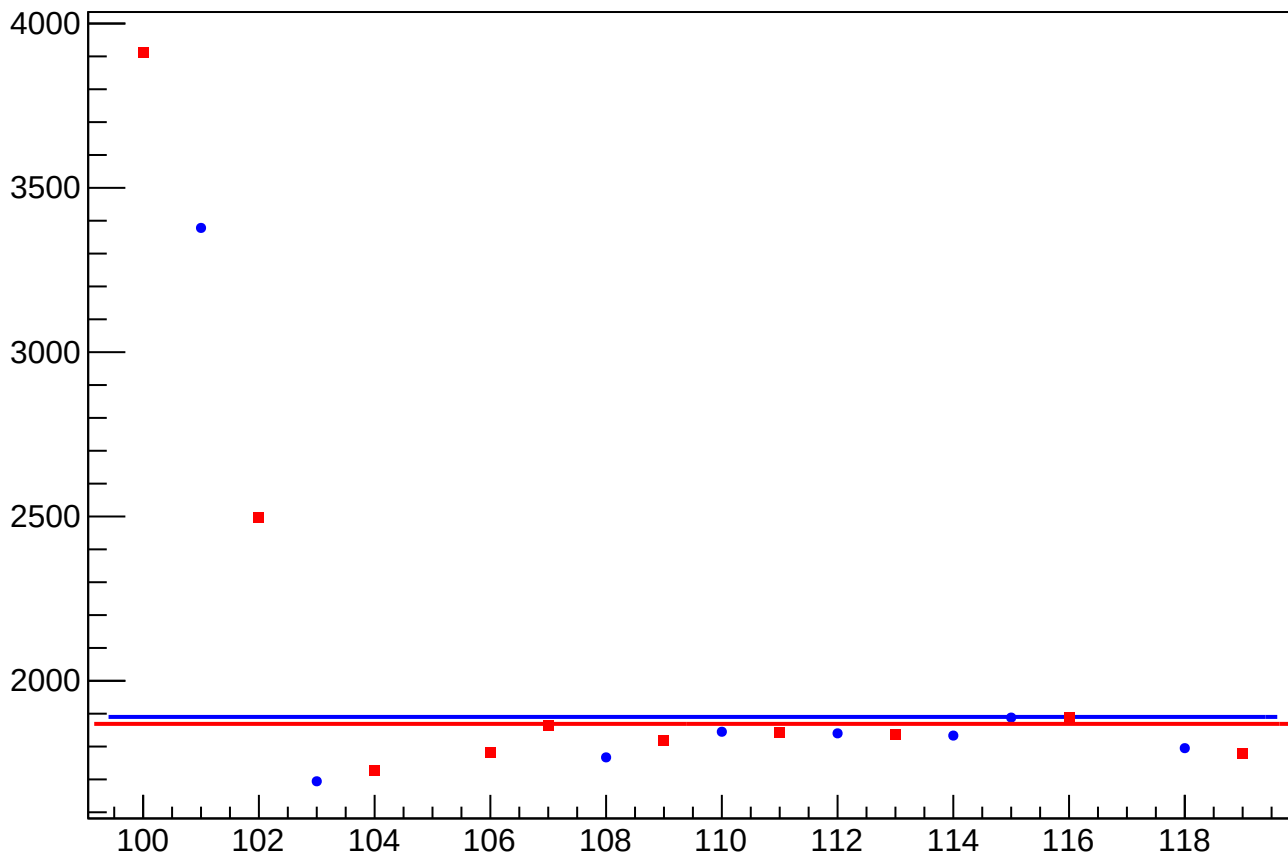
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-606.550 \pm 708.626$   $\chi^2/\text{NDF}: 10.7/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# dit\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 1890.153+/-0.751  $\chi^2/\text{NDF}$ : 278384.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1868.953+/-0.673  $\chi^2/\text{NDF}$ : 118570.7/9

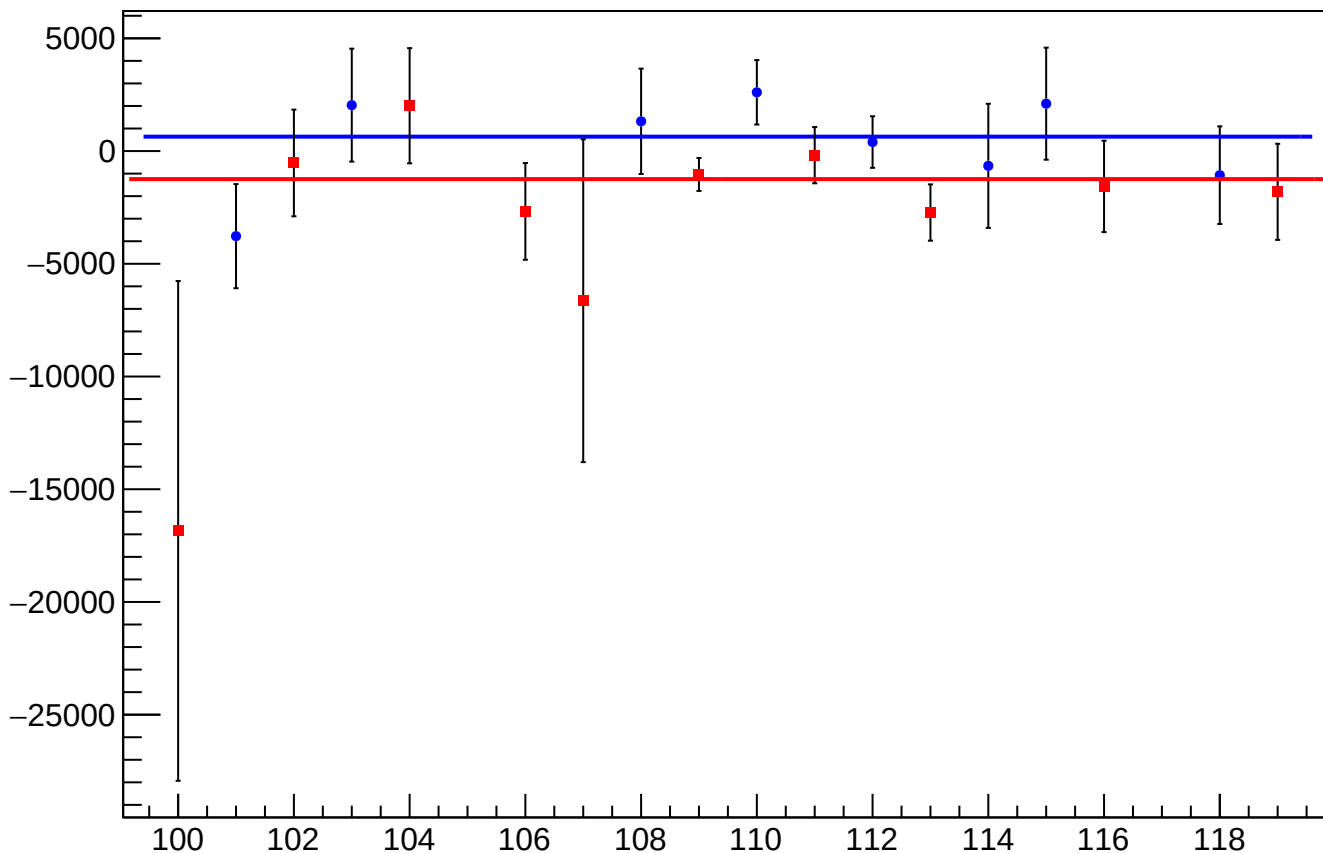
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1878.394+/-0.501  $\chi^2/\text{NDF}$ : 397396.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_dit\_correction\_mean vs Slug



Right In: 639.368+/-660.688  $\chi^2/\text{NDF}$ : 7.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1244.682+/-488.052  $\chi^2/\text{NDF}$ : 7.0/9

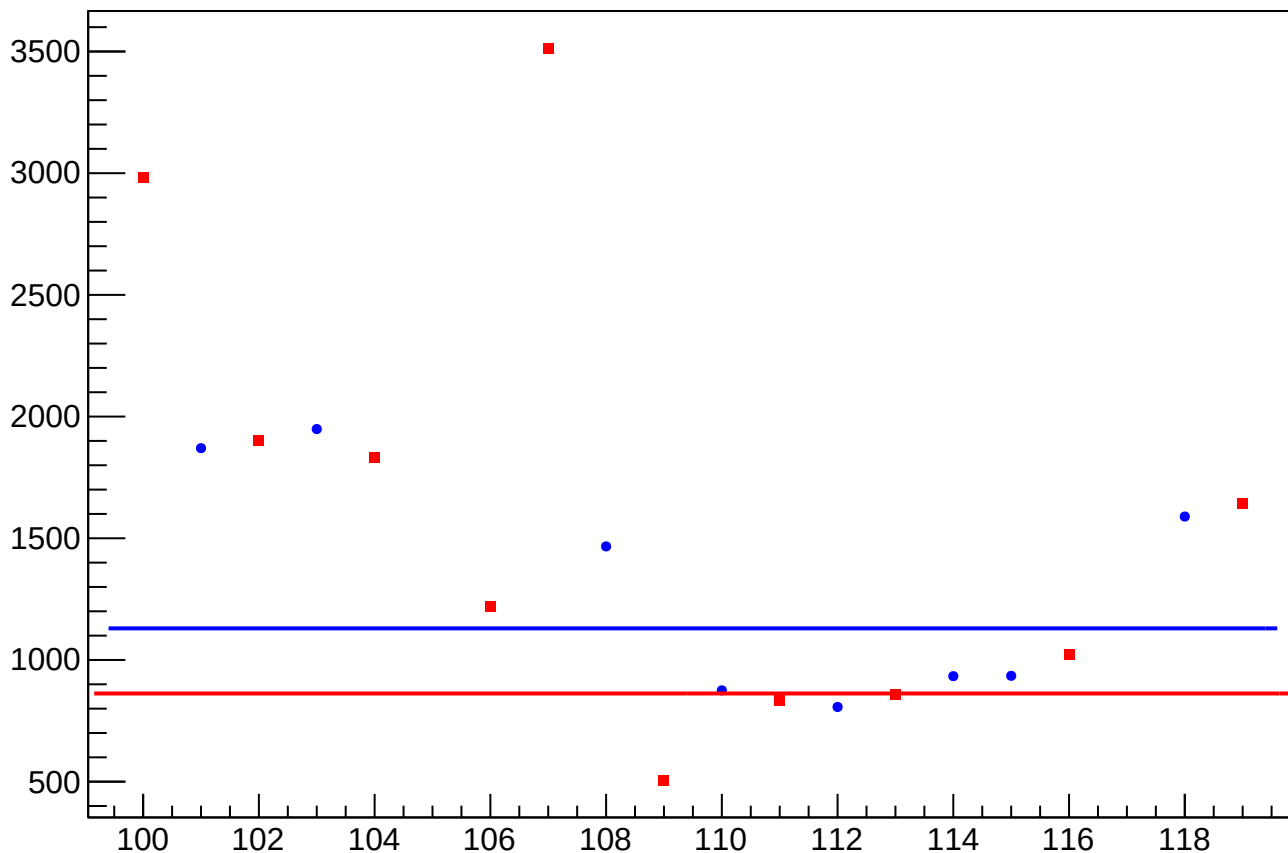
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -579.544+/-392.560  $\chi^2/\text{NDF}$ : 19.5/17

- 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: 1129.771 $\pm$ 0.467  $\chi^2$ /NDF: 796254.1/7

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

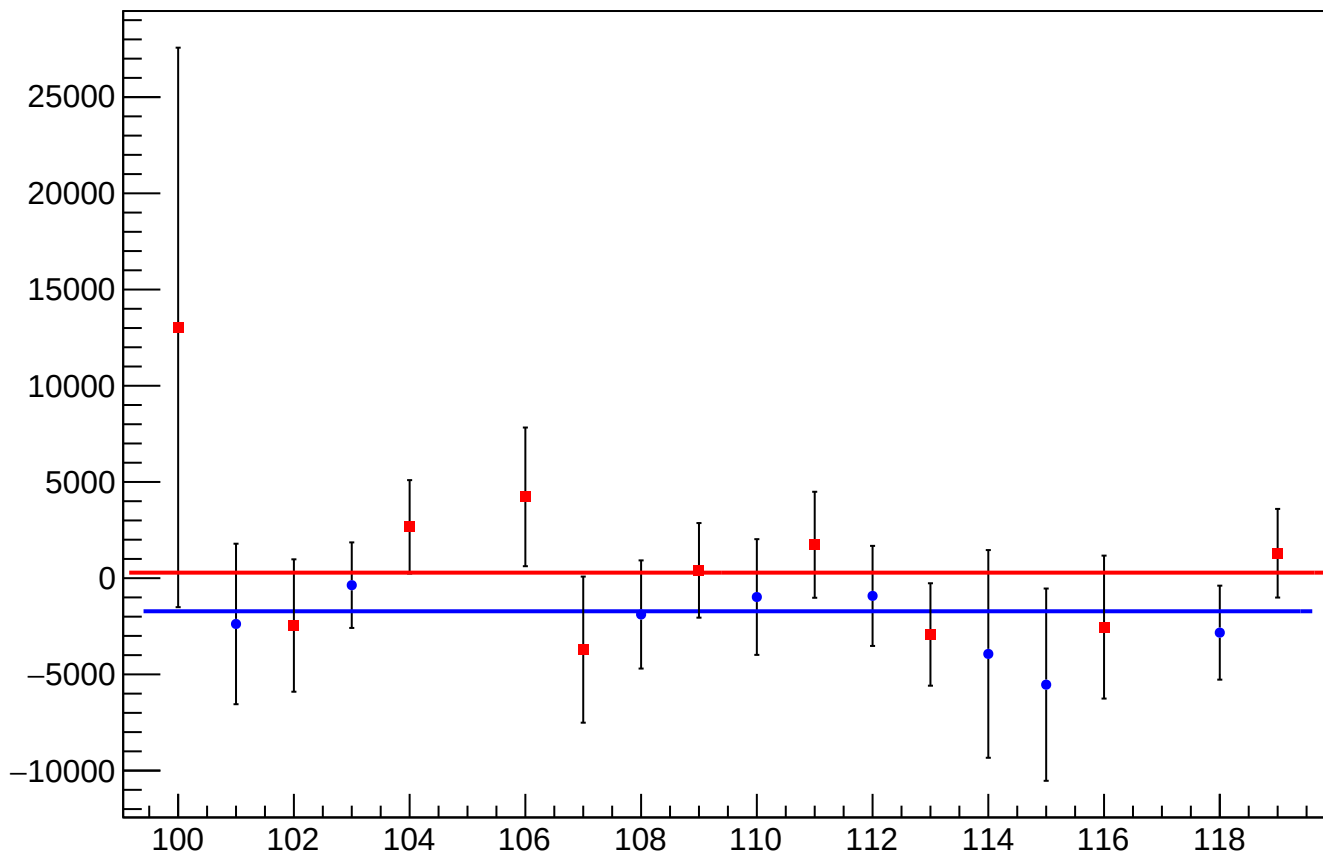
Right Out: 862.307 $\pm$ 0.345  $\chi^2$ /NDF: 1841599.6/9

All: 956.732 $\pm$ 0.278  $\chi^2$ /NDF: 2849908.2/17

- 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\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1719.731 $\pm$ 1061.867  $\chi^2$ /NDF: 1.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 287.246 $\pm$ 951.492  $\chi^2$ /NDF: 7.2/9

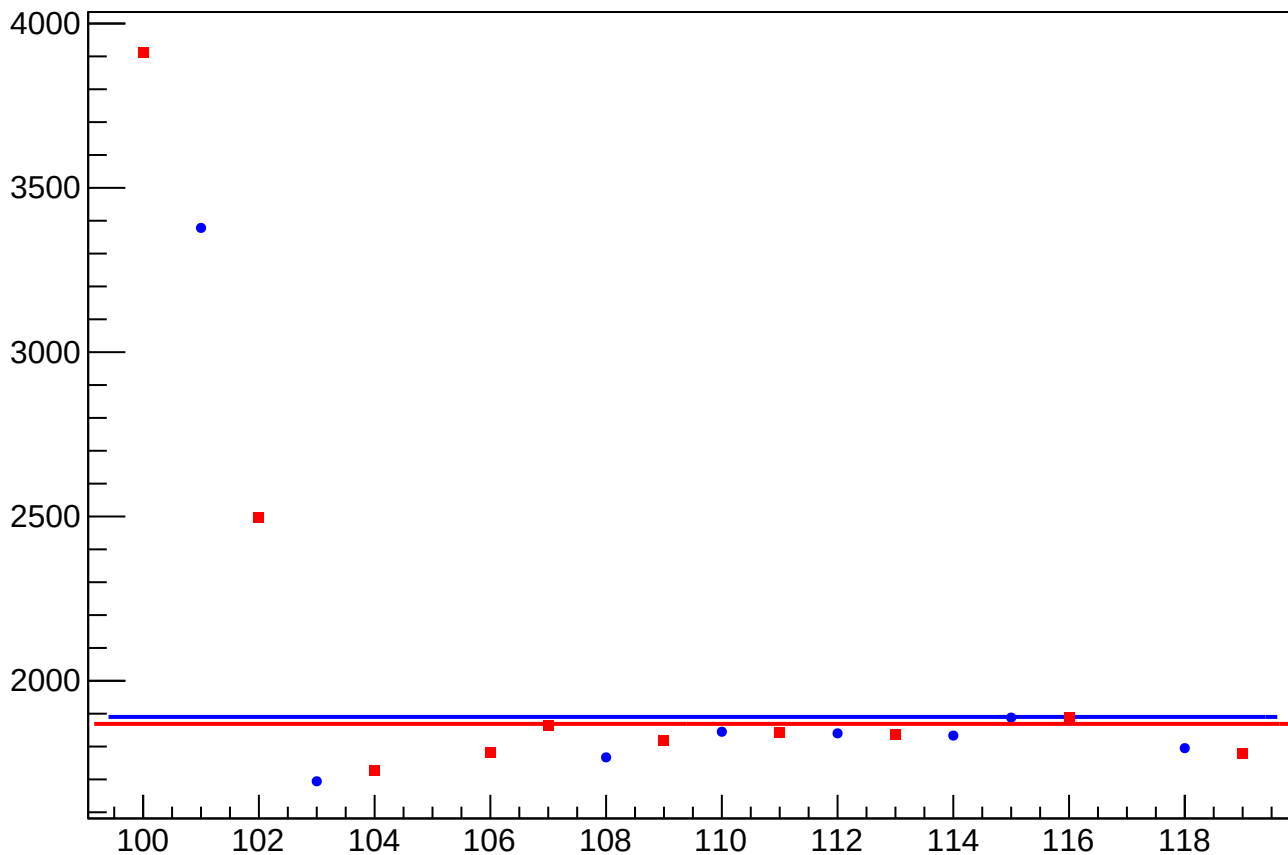
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -606.547 $\pm$ 708.627  $\chi^2$ /NDF: 10.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 1890.153+/-0.751  $\chi^2/\text{NDF}$ : 278384.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1868.953+/-0.673  $\chi^2/\text{NDF}$ : 118570.7/9

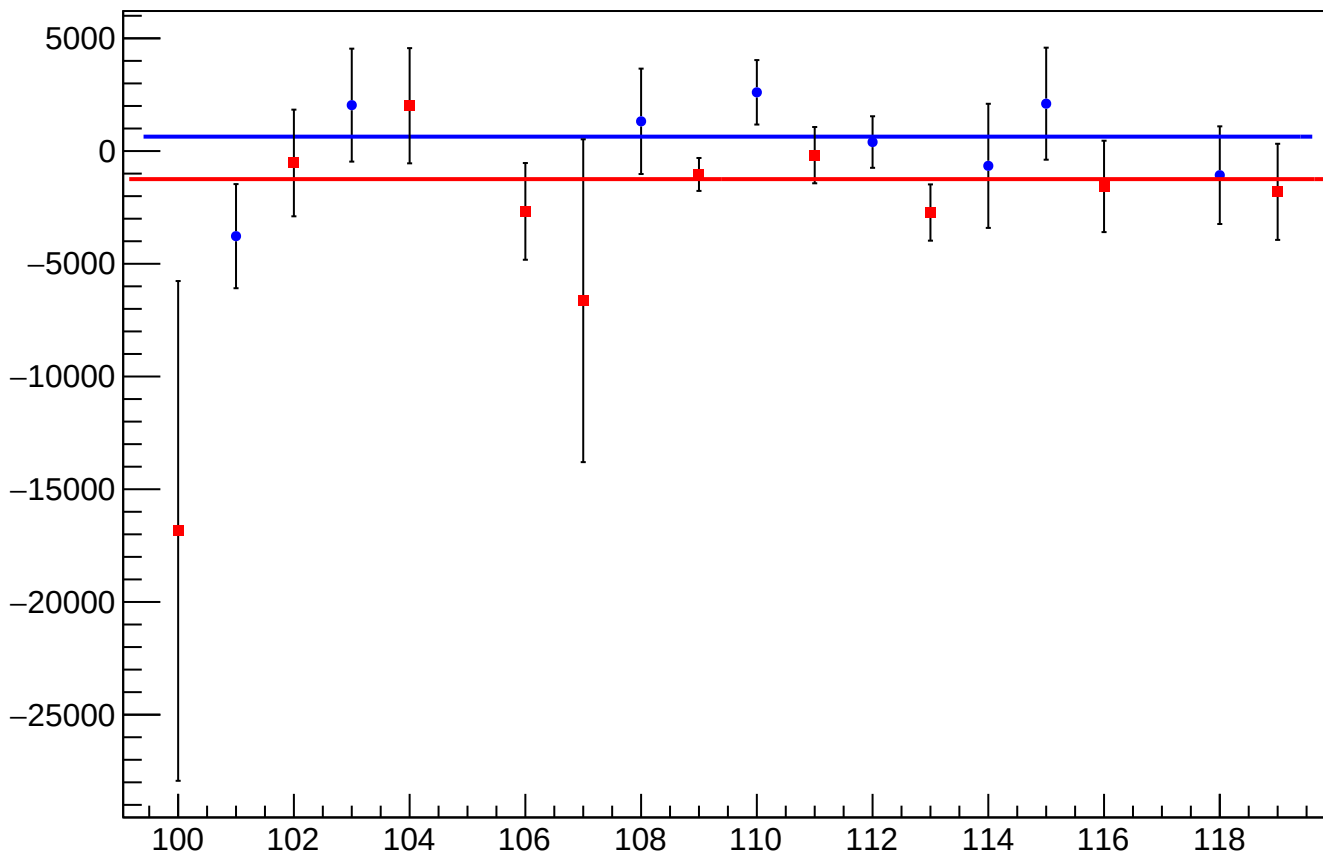
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1878.394+/-0.501  $\chi^2/\text{NDF}$ : 397396.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 639.367+/-660.685  $\chi^2/\text{NDF}$ : 7.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1244.680+/-488.051  $\chi^2/\text{NDF}$ : 7.0/9

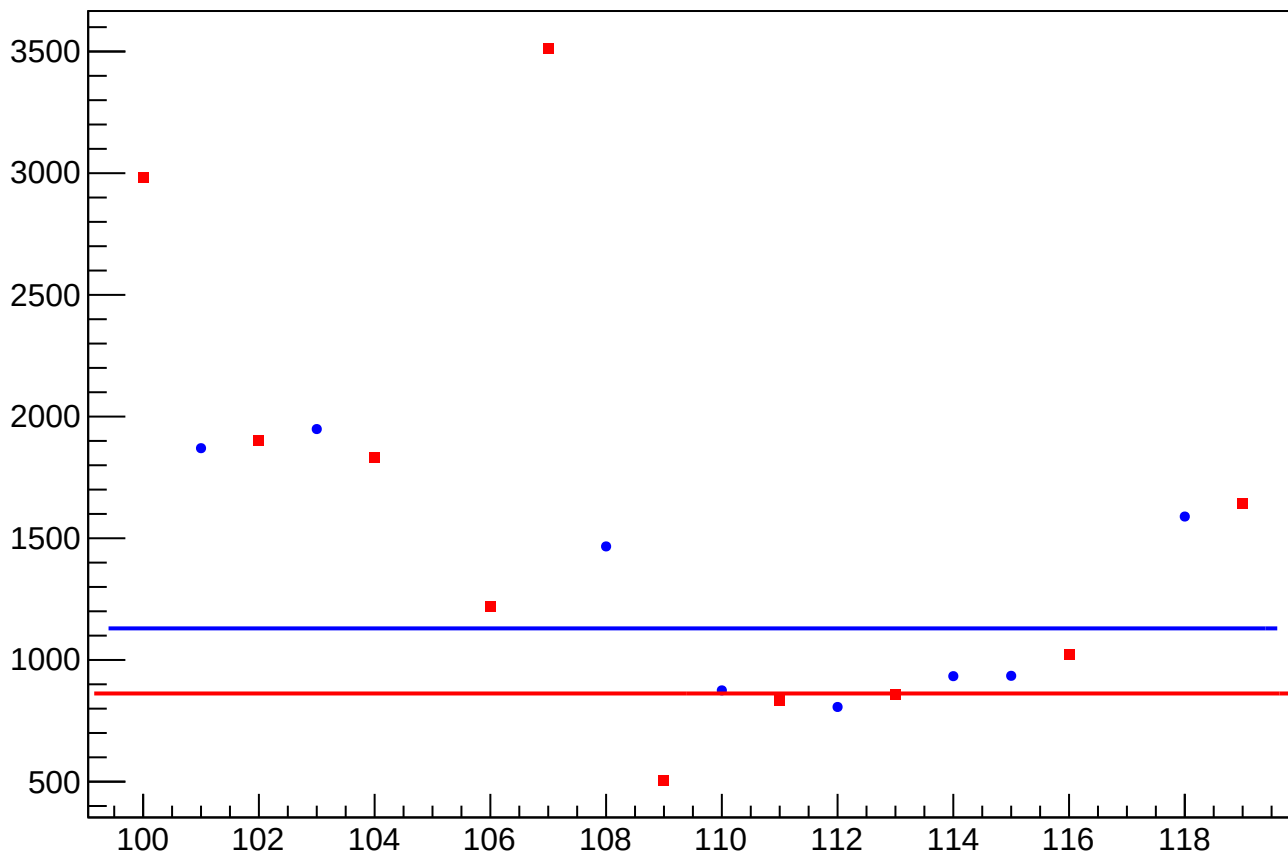
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -579.540+/-392.559  $\chi^2/\text{NDF}$ : 19.5/17

- 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: 1129.764+/-0.467  $\chi^2/\text{NDF}$ : 796265.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 862.306+/-0.345  $\chi^2/\text{NDF}$ : 1841594.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

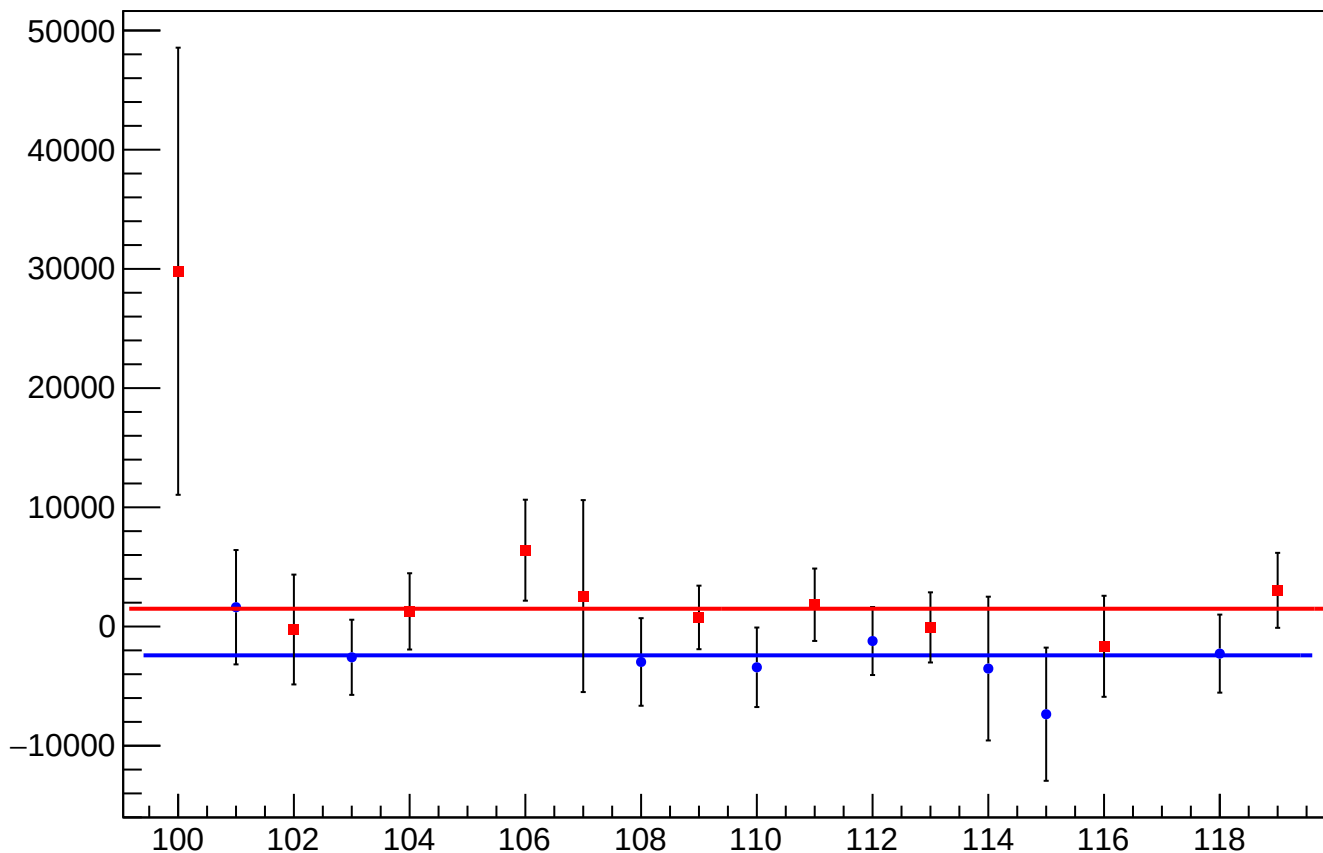
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 956.729+/-0.278  $\chi^2/\text{NDF}$ : 2849905.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -2417.396 $\pm$ 1308.804  $\chi^2$ /NDF: 1.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1492.422 $\pm$ 1162.195  $\chi^2$ /NDF: 5.0/9

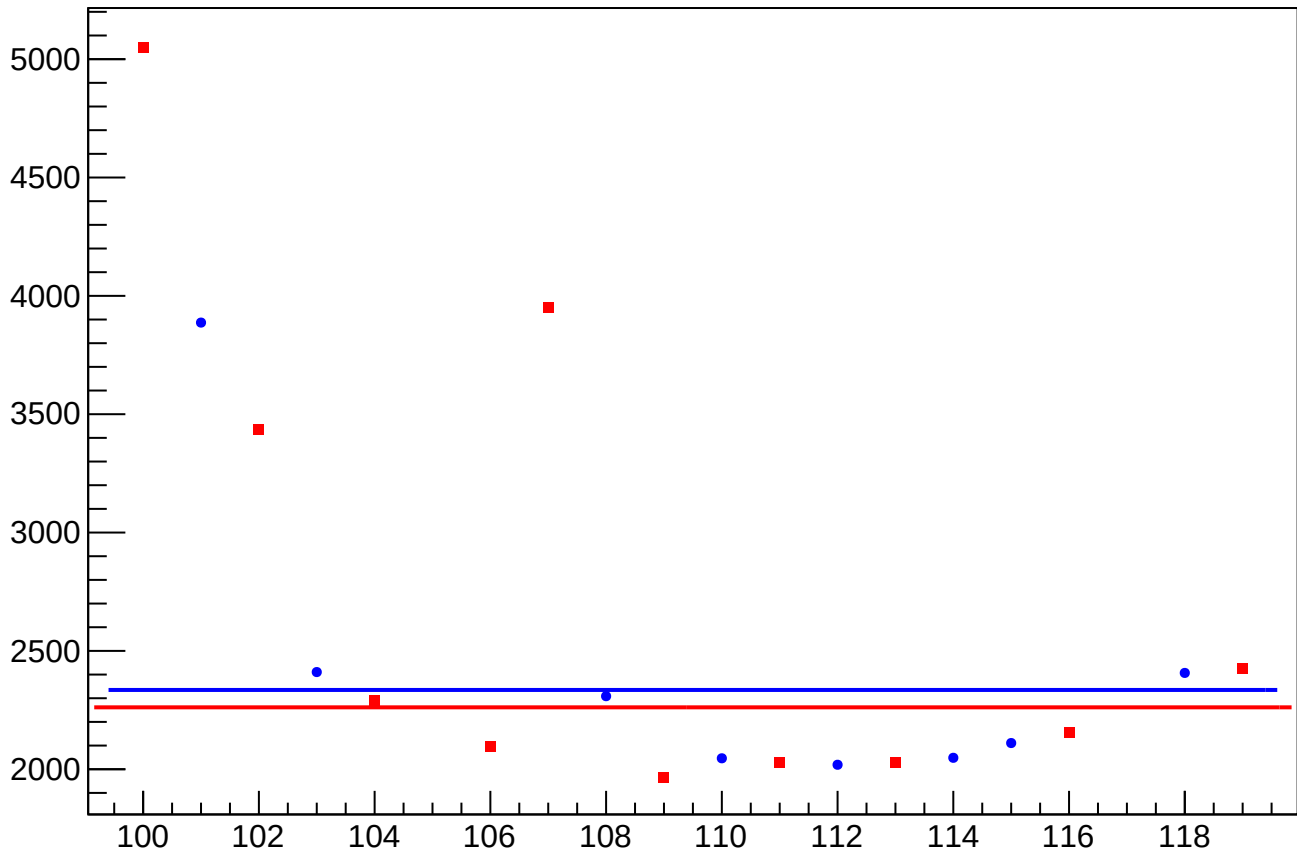
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -231.323 $\pm$ 869.026  $\chi^2$ /NDF: 11.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 2334.974+/-0.925  $\chi^2/\text{NDF}$ : 258880.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2261.536+/-0.822  $\chi^2/\text{NDF}$ : 320802.9/9

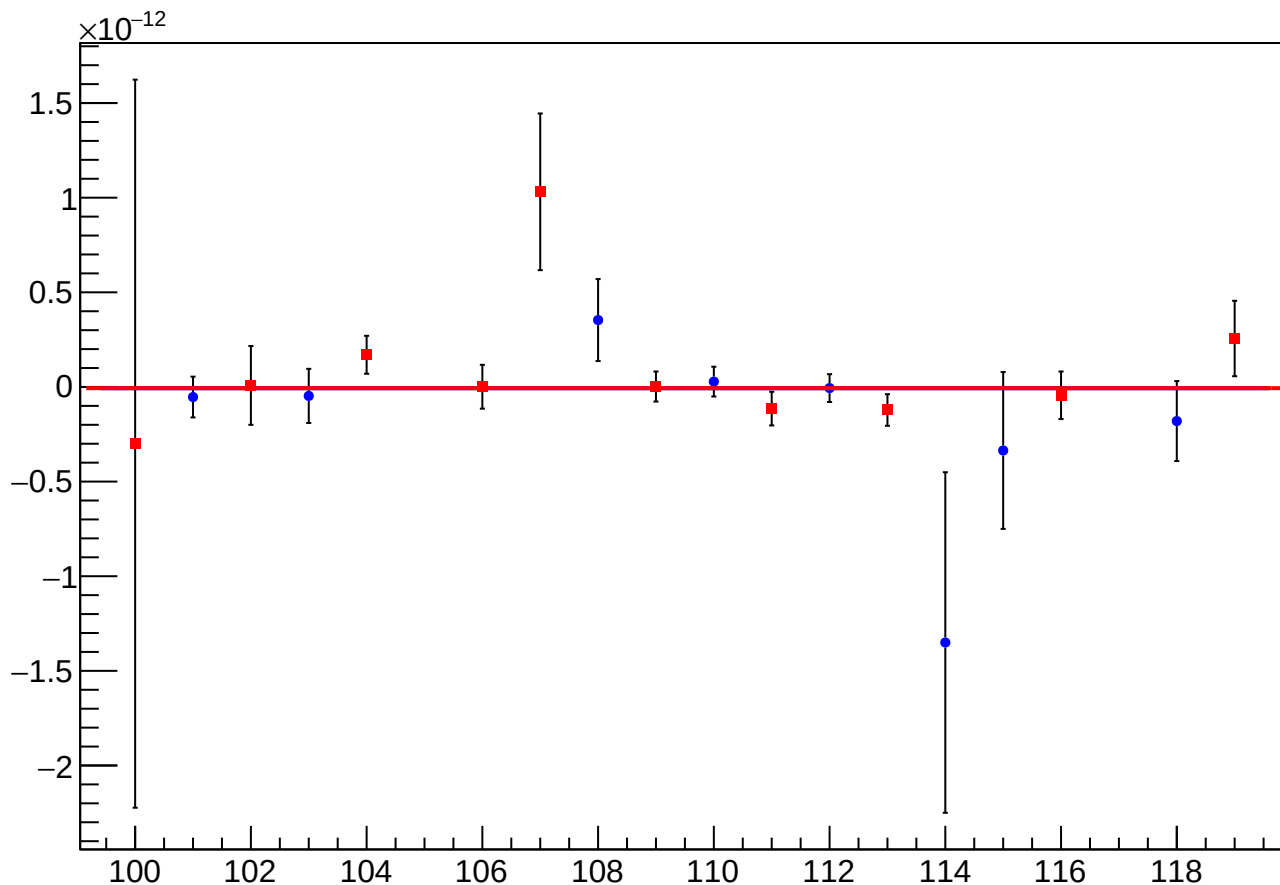
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2293.913+/-0.614  $\chi^2/\text{NDF}$ : 583203.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.6/9

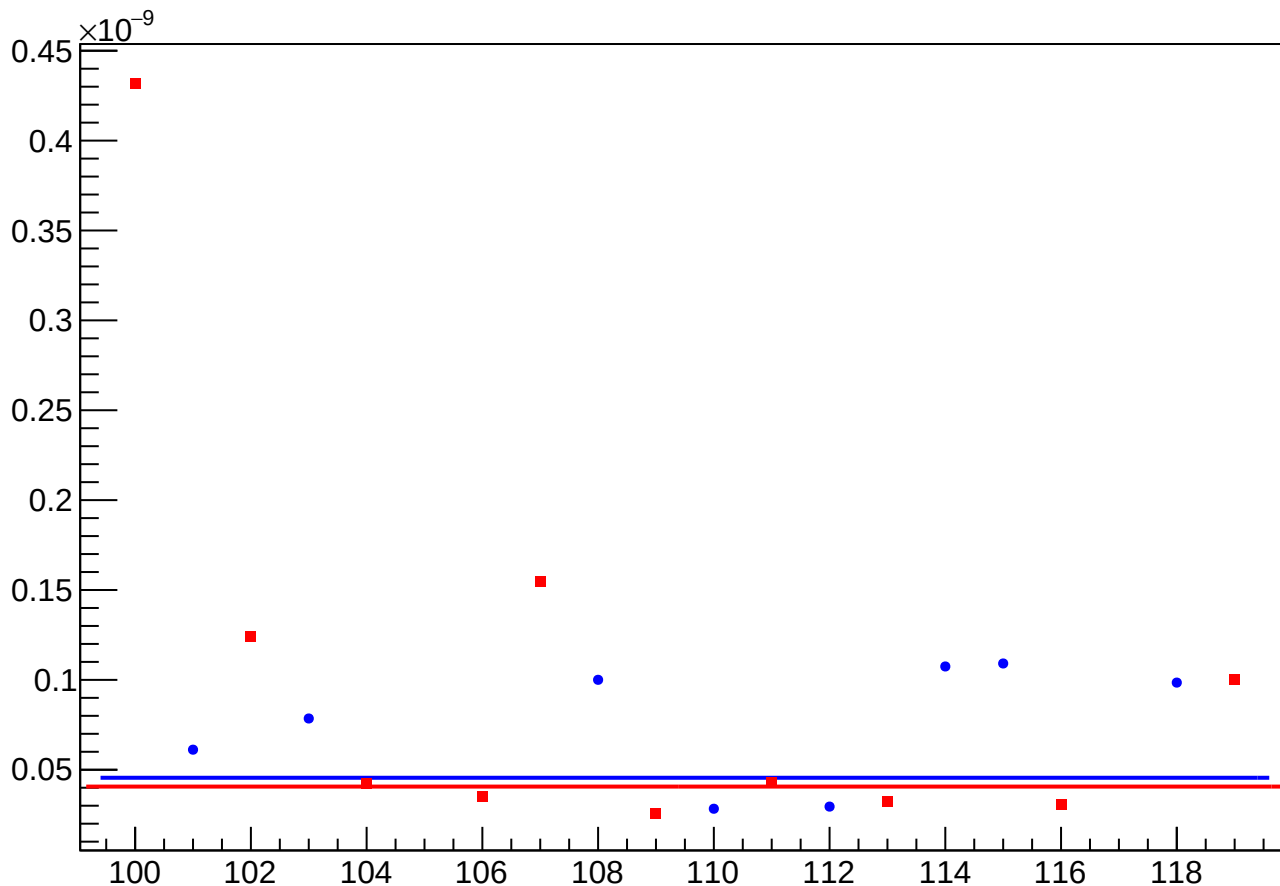
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 21.4/17

- 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  $\chi^2/\text{NDF}$ : 648407.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 843926.8/9

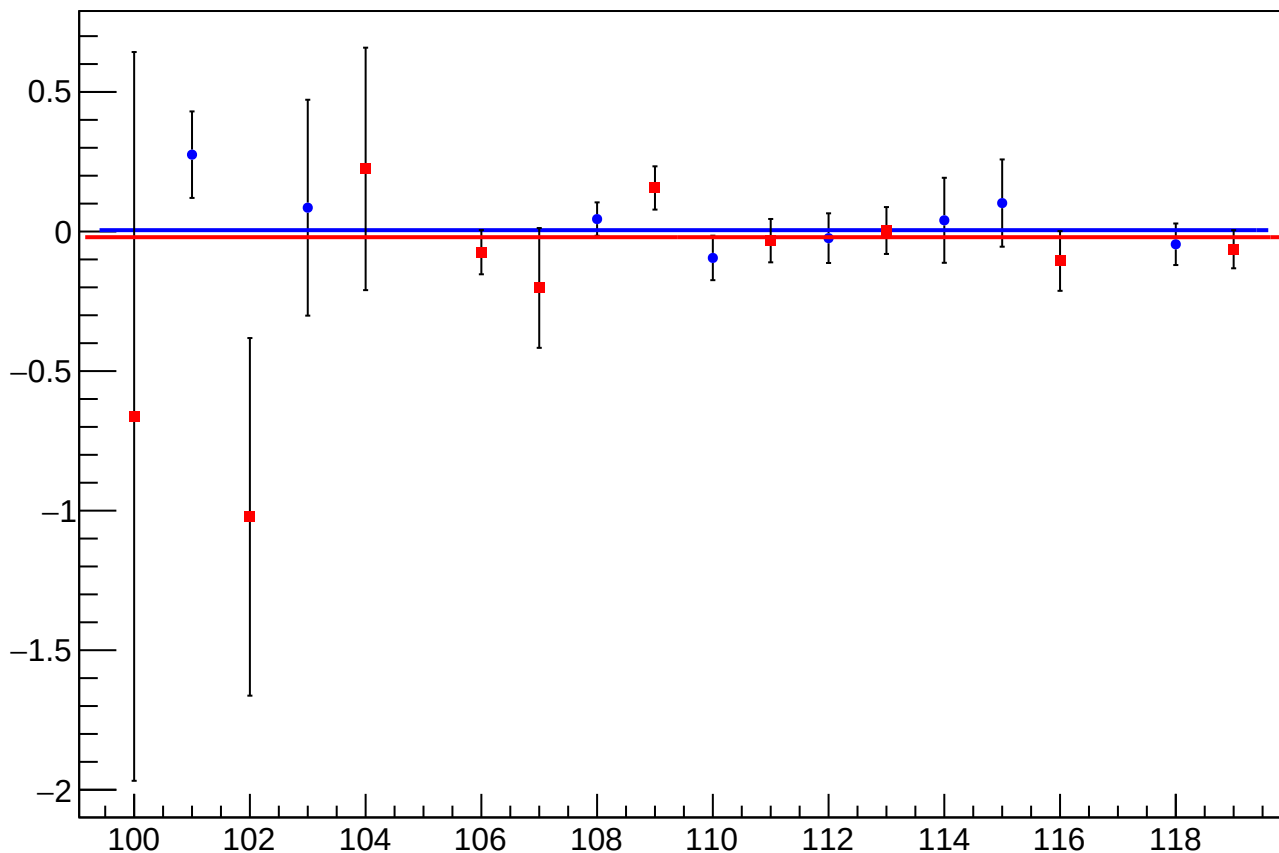
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1507071.9/17

- 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: 0.005 $\pm$ 0.034  $\chi^2$ /NDF: 6.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.020 $\pm$ 0.032  $\chi^2$ /NDF: 10.5/9

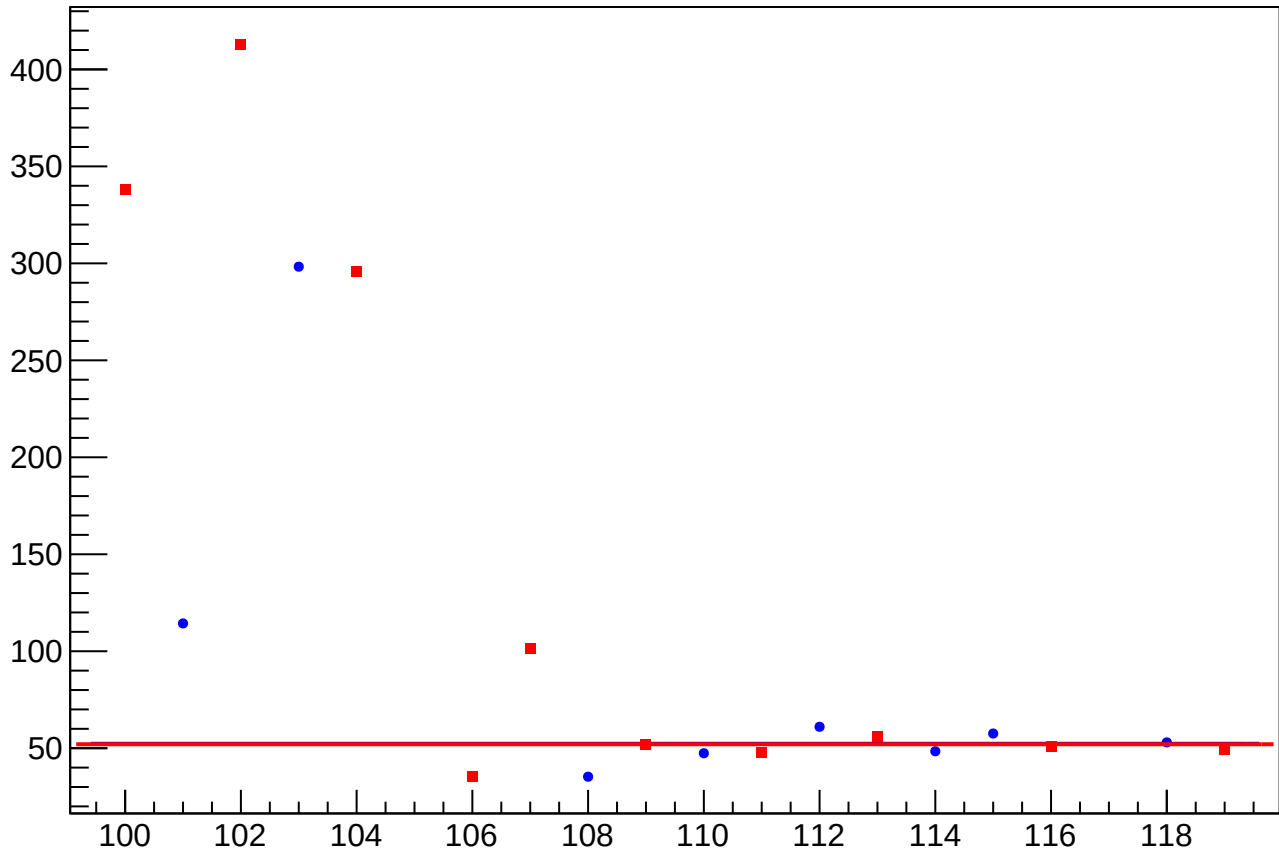
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.008 $\pm$ 0.023  $\chi^2$ /NDF: 16.9/17

- 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: 52.281+/-0.024  $\chi^2/\text{NDF}$ : 1321857.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.044+/-0.023  $\chi^2/\text{NDF}$ : 1570533.9/9

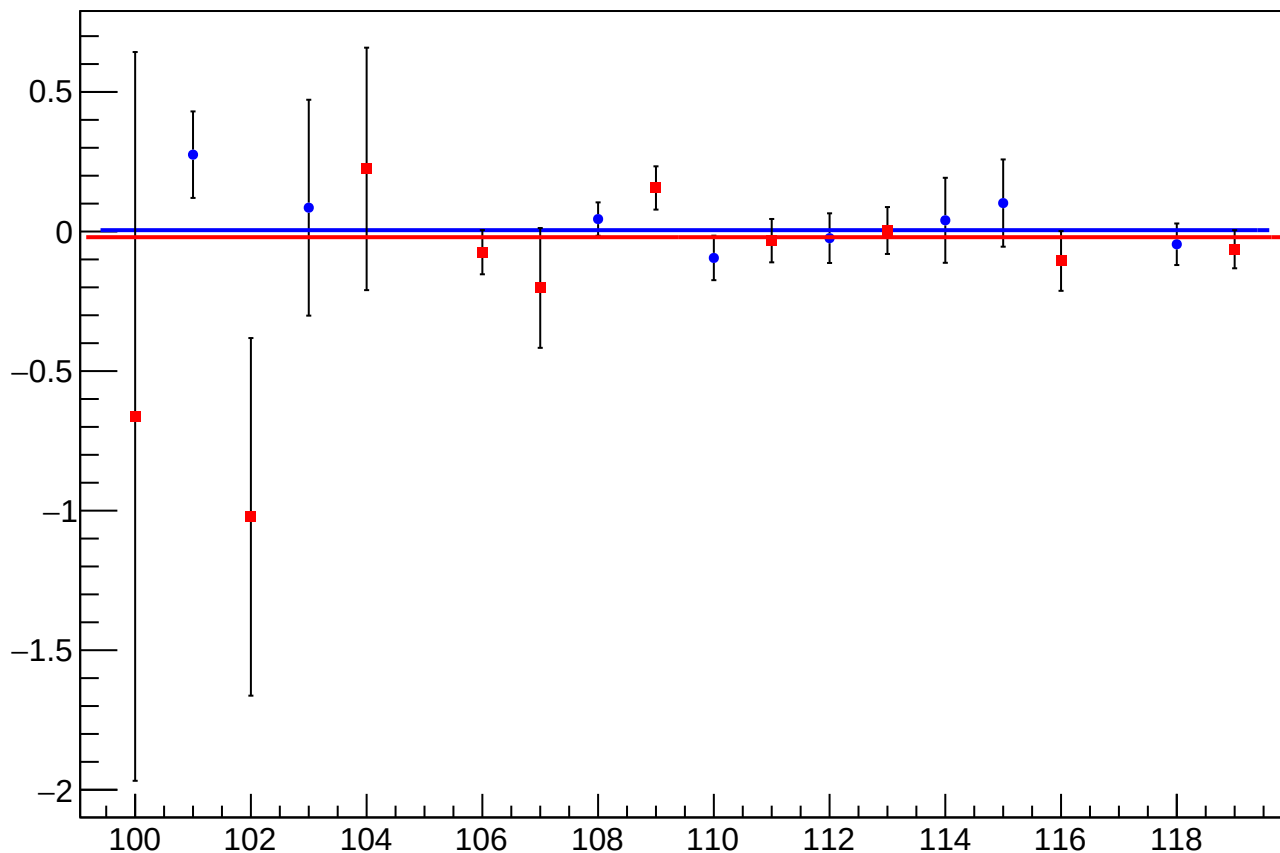
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52.157+/-0.016  $\chi^2/\text{NDF}$ : 2892443.3/17

- 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: 0.005 $\pm$ 0.034  $\chi^2$ /NDF: 6.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.020 $\pm$ 0.032  $\chi^2$ /NDF: 10.5/9

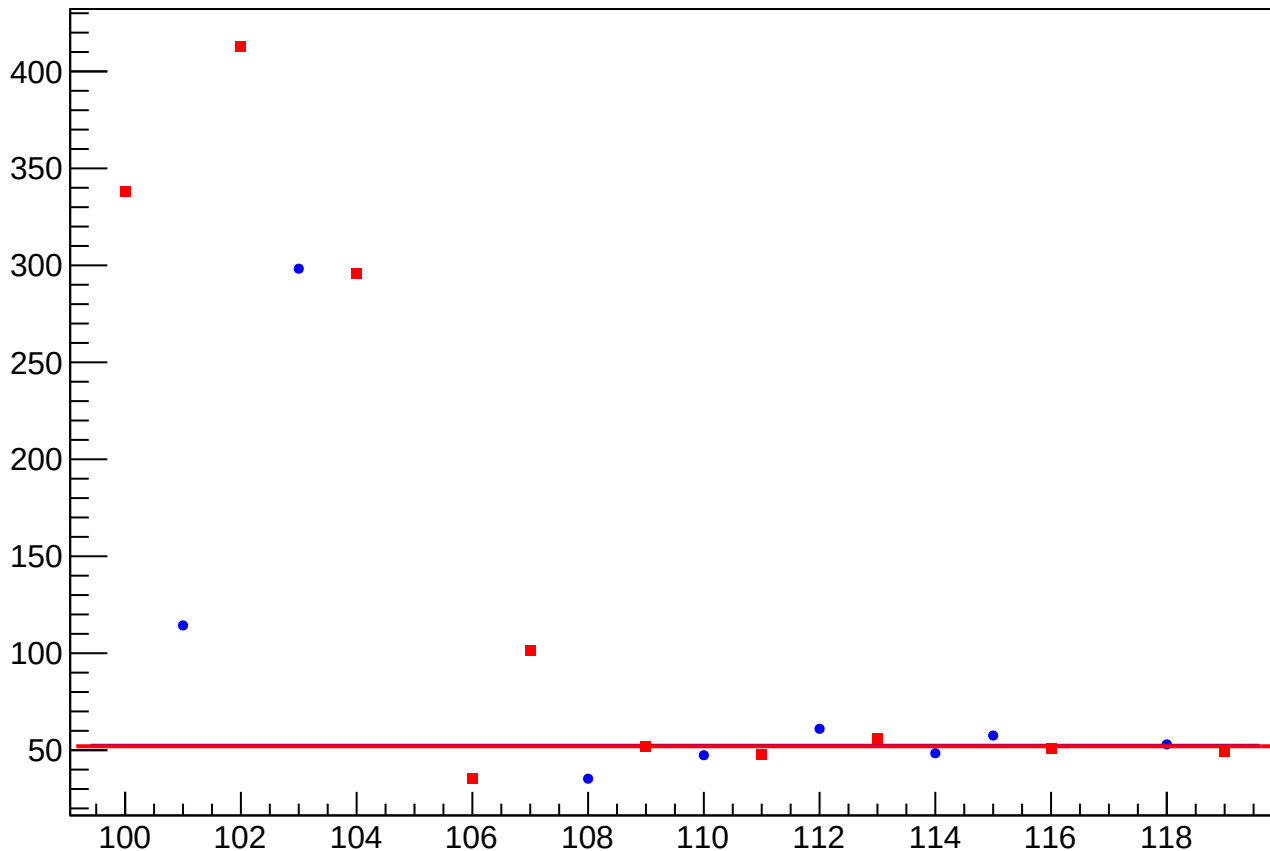
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.008 $\pm$ 0.023  $\chi^2$ /NDF: 16.9/17

- 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: 52.281+/-0.024  $\chi^2/\text{NDF}$ : 1321857.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.044+/-0.023  $\chi^2/\text{NDF}$ : 1570533.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

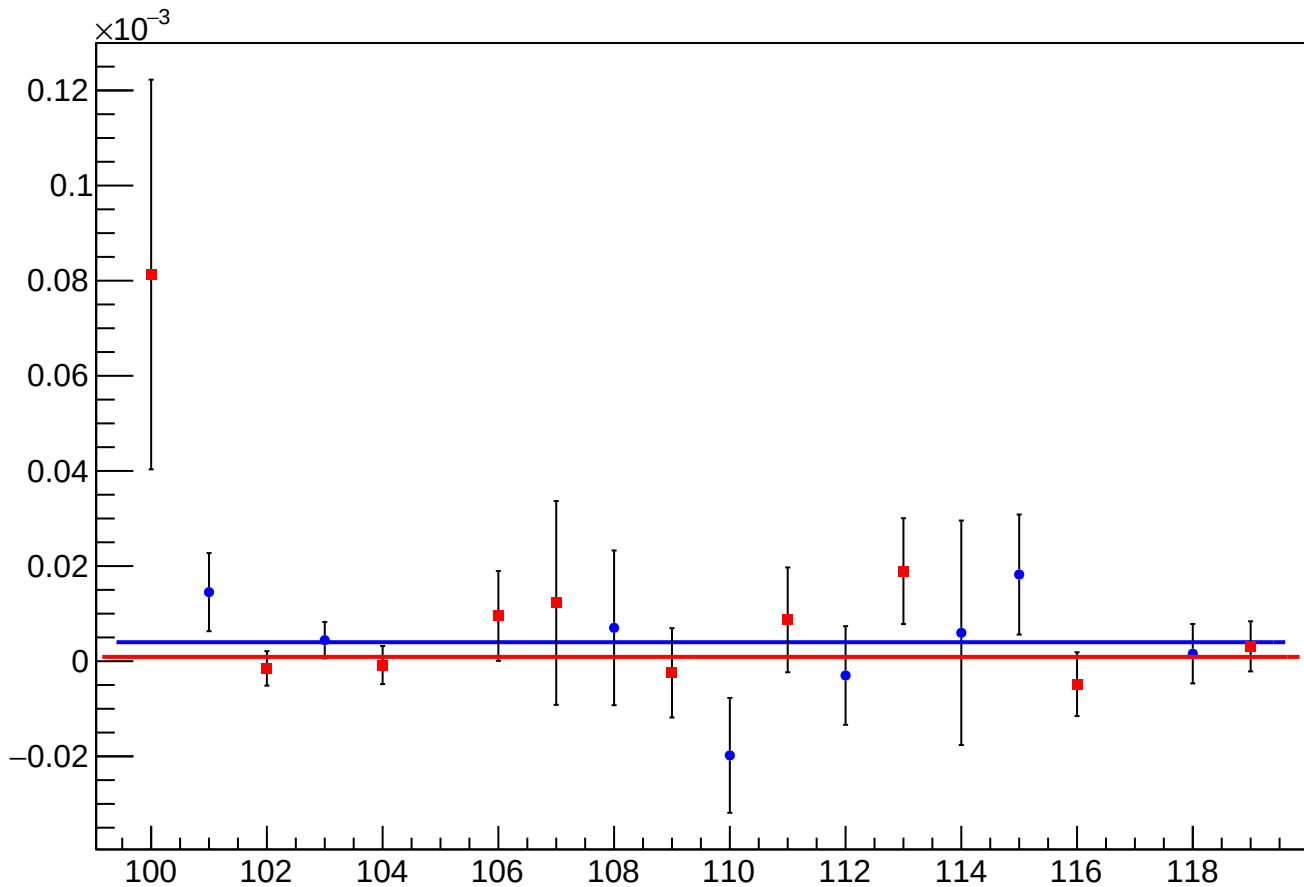
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52.157+/-0.016  $\chi^2/\text{NDF}$ : 2892443.3/17

- 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: 7.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.8/9

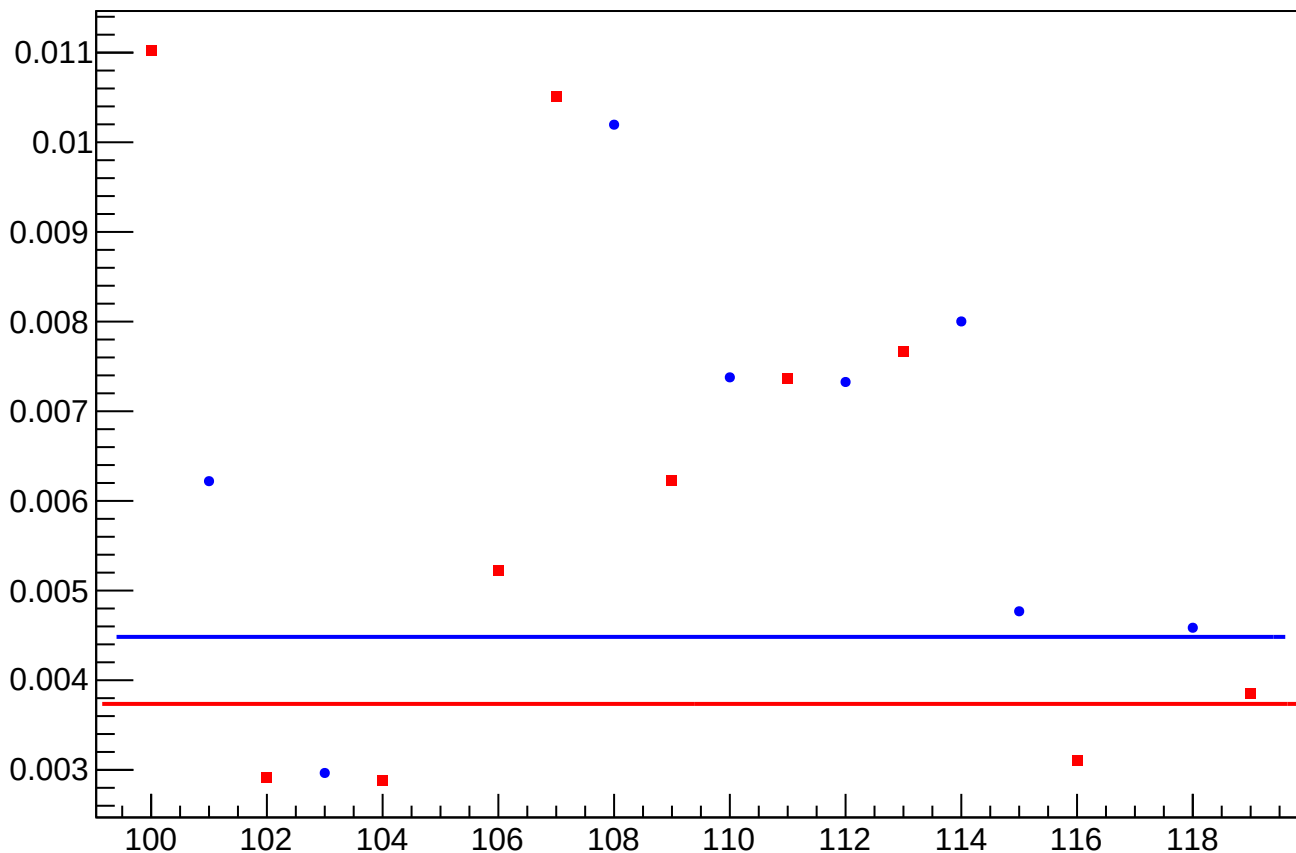
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 18.0/17

- 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  $\chi^2/\text{NDF}$ : 964201.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 1131246.2/9

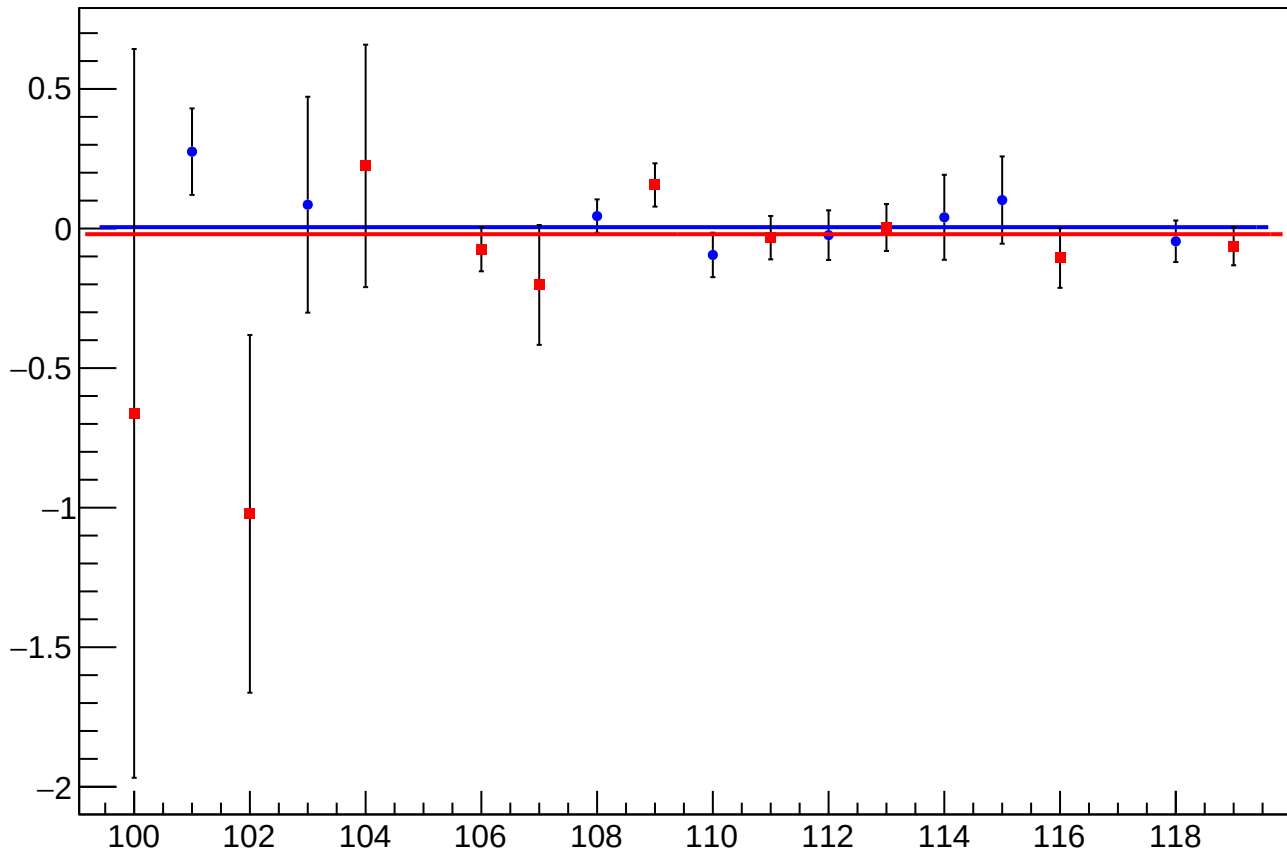
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 2192805.6/17

- 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: 0.005 $\pm$ 0.034  $\chi^2$ /NDF: 6.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.020 $\pm$ 0.032  $\chi^2$ /NDF: 10.5/9

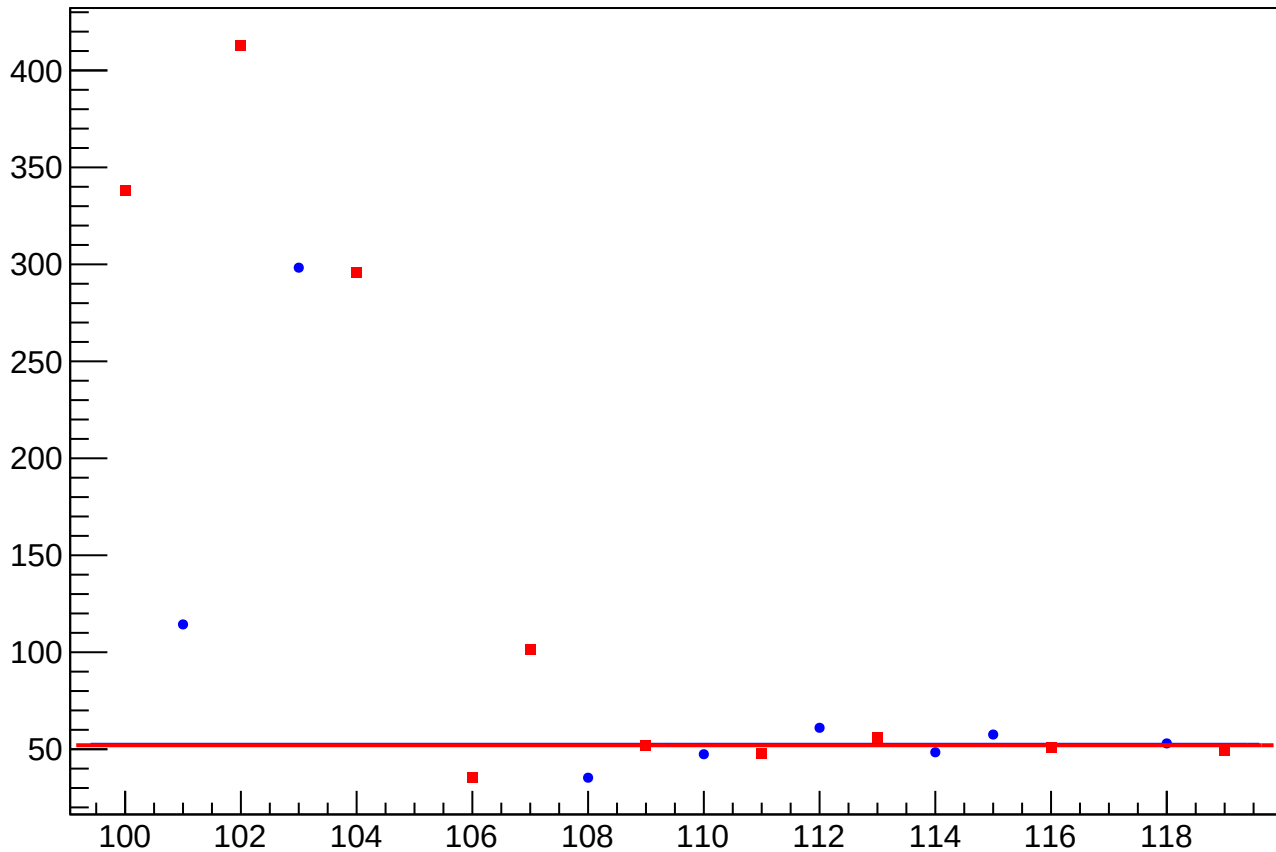
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.008 $\pm$ 0.023  $\chi^2$ /NDF: 16.9/17

- 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: 52.283+/-0.024  $\chi^2/\text{NDF}$ : 1321781.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.044+/-0.023  $\chi^2/\text{NDF}$ : 1570518.6/9

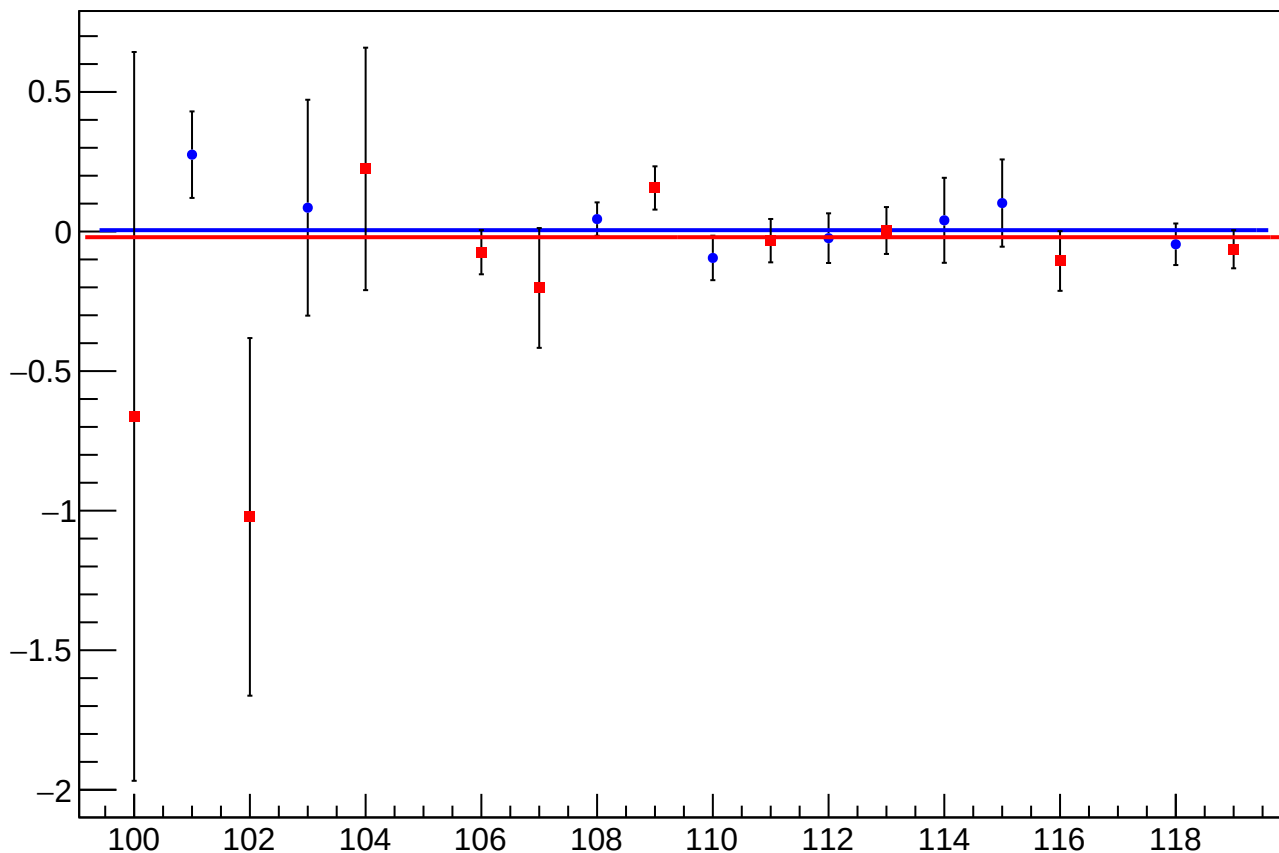
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52.158+/-0.016  $\chi^2/\text{NDF}$ : 2892352.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.005 $\pm$ 0.034  $\chi^2$ /NDF: 6.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.020 $\pm$ 0.032  $\chi^2$ /NDF: 10.5/9

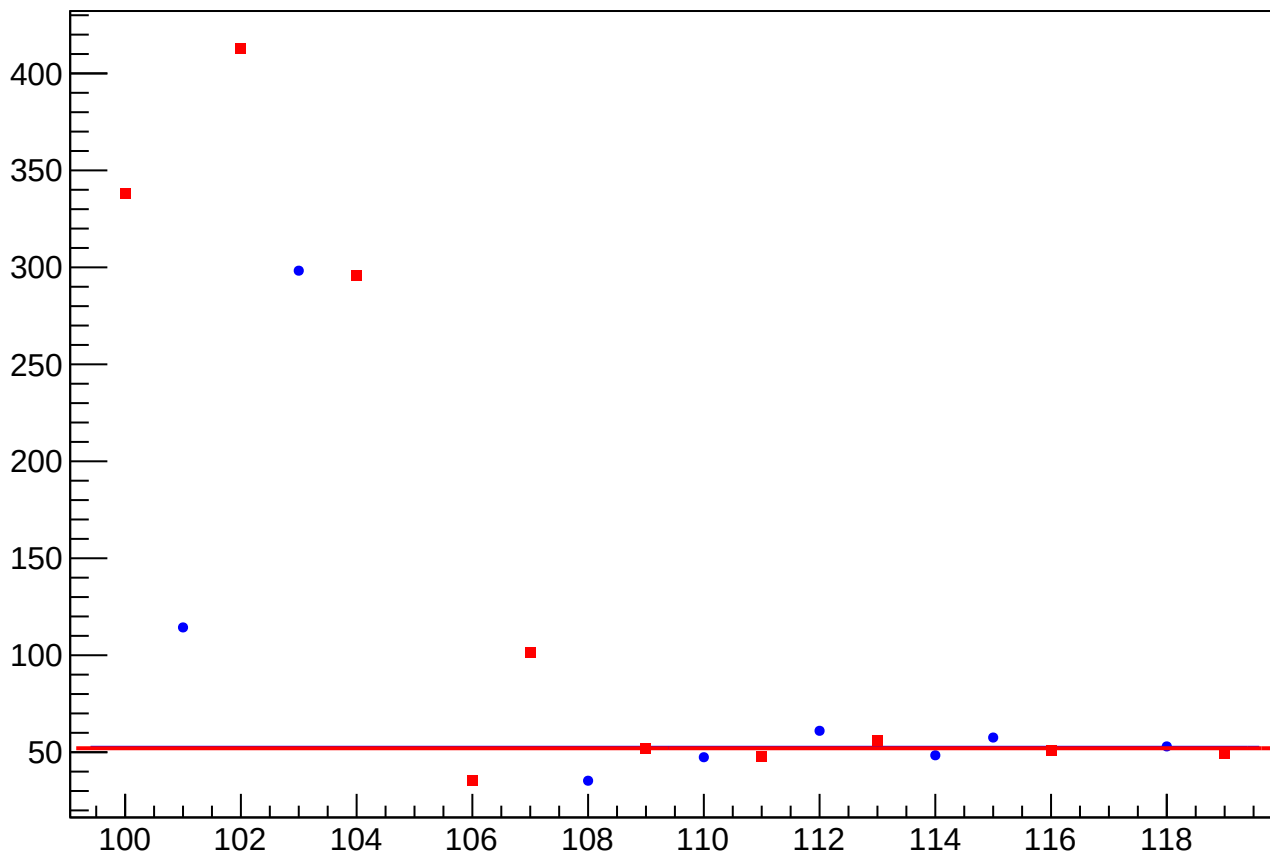
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.008 $\pm$ 0.023  $\chi^2$ /NDF: 16.9/17

- 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: 52.283+/-0.024  $\chi^2/\text{NDF}$ : 1321781.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.044+/-0.023  $\chi^2/\text{NDF}$ : 1570518.6/9

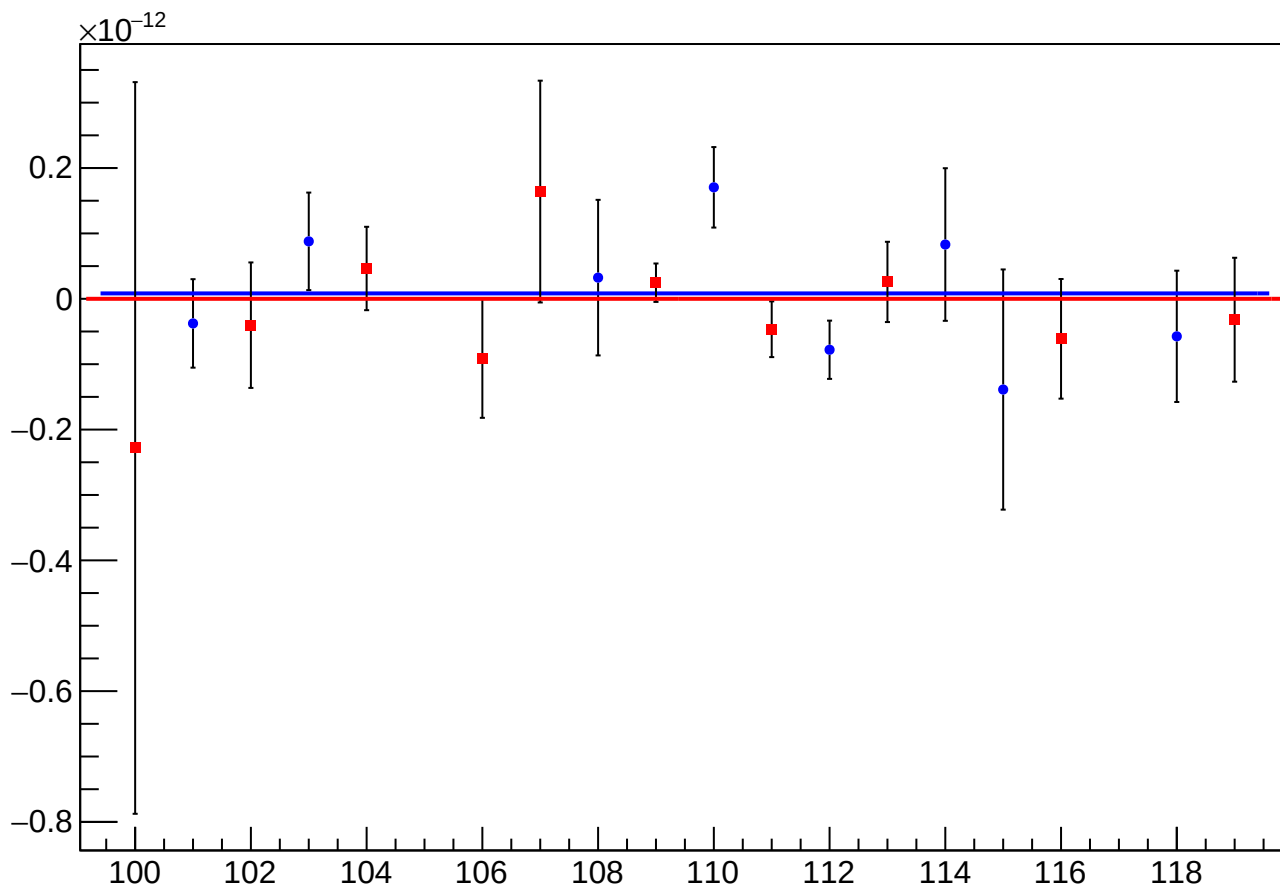
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52.158+/-0.016  $\chi^2/\text{NDF}$ : 2892352.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 13.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 5.4/9

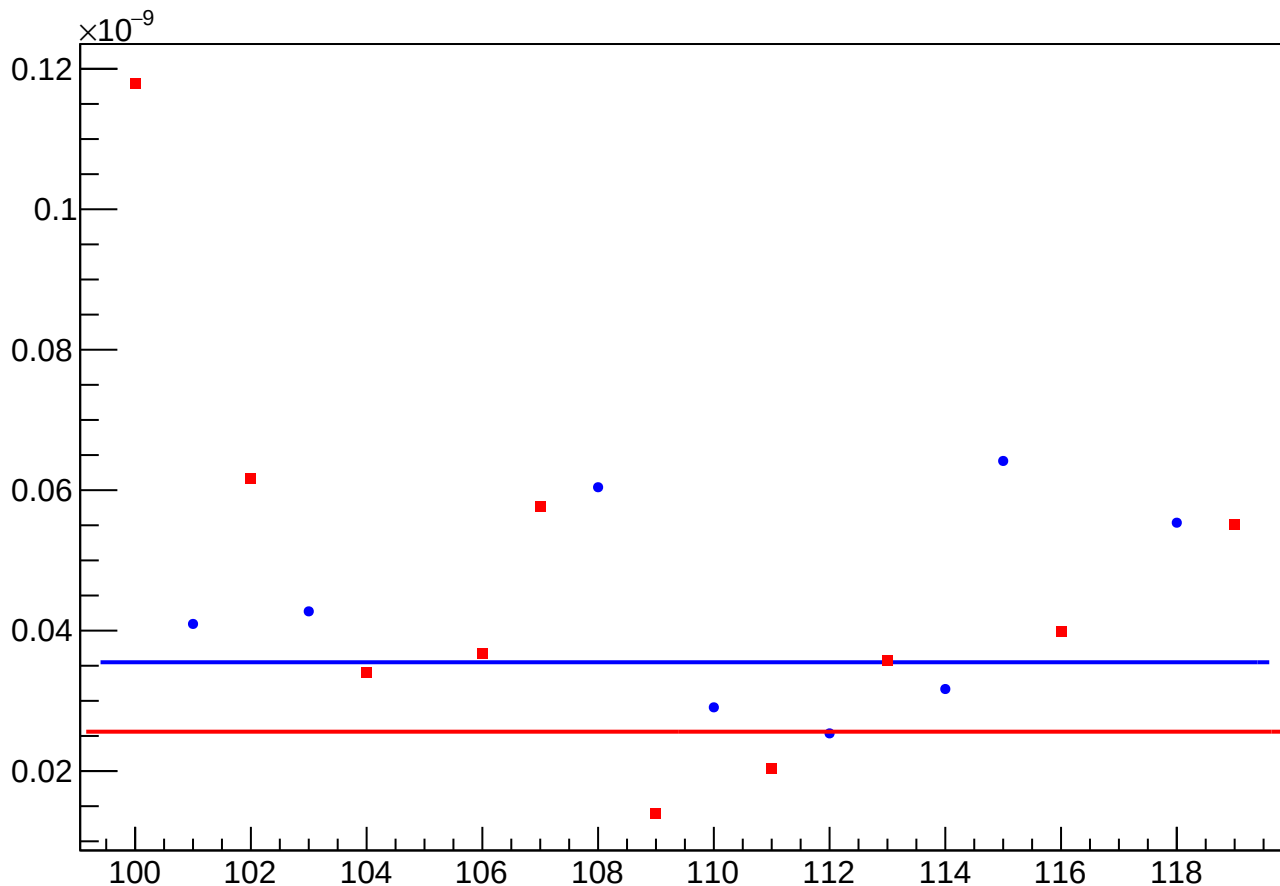
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 19.3/17

- sign 0.000 $\pm$ 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+/-0.000  $\chi^2/\text{NDF}$ : 374007.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1113725.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

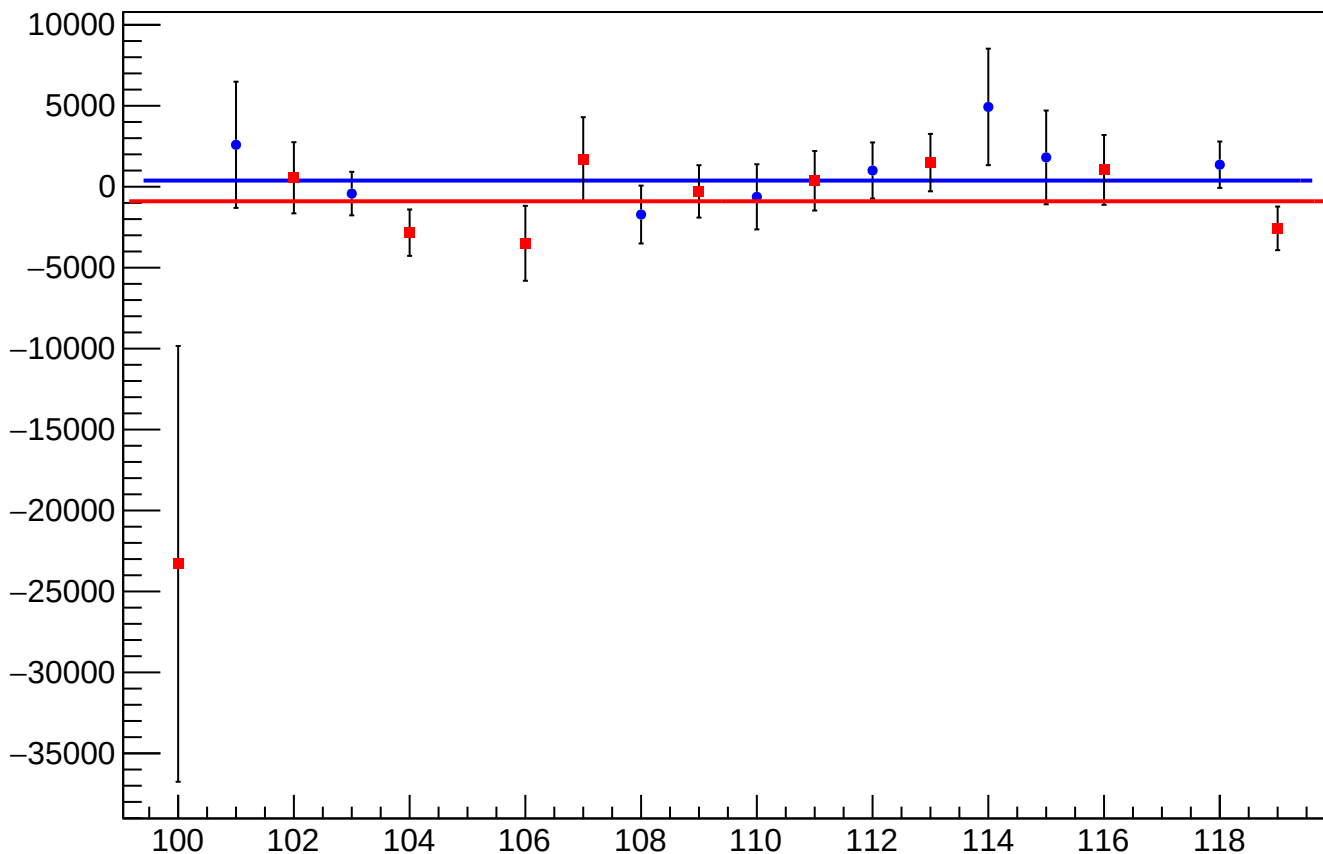
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1671663.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: 381.345 $\pm$ 674.655  $\chi^2$ /NDF: 4.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -898.562 $\pm$ 597.929  $\chi^2$ /NDF: 12.1/9

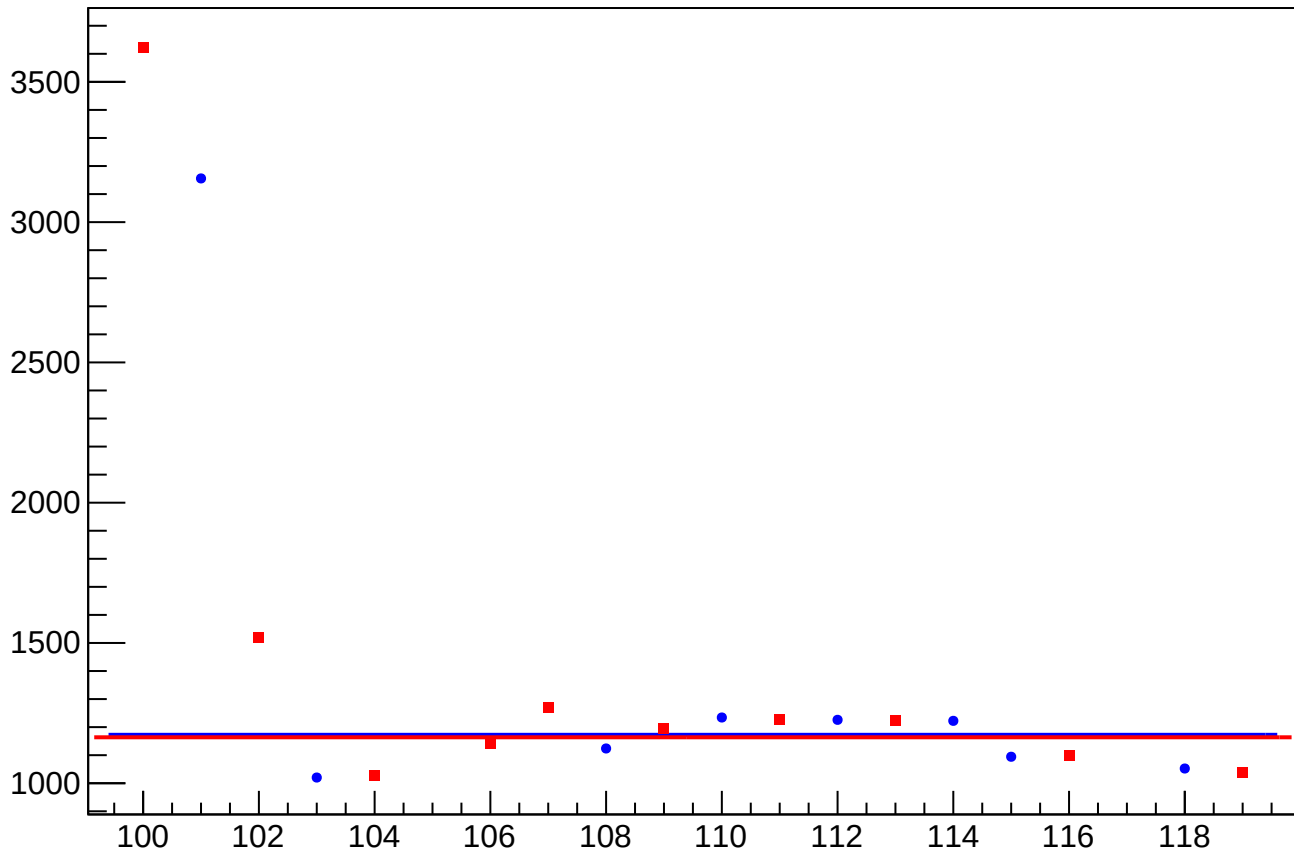
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -335.496 $\pm$ 447.478  $\chi^2$ /NDF: 18.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1172.593+/-0.477  $\chi^2/\text{NDF}$ : 564833.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1163.757+/-0.423  $\chi^2/\text{NDF}$ : 165364.6/9

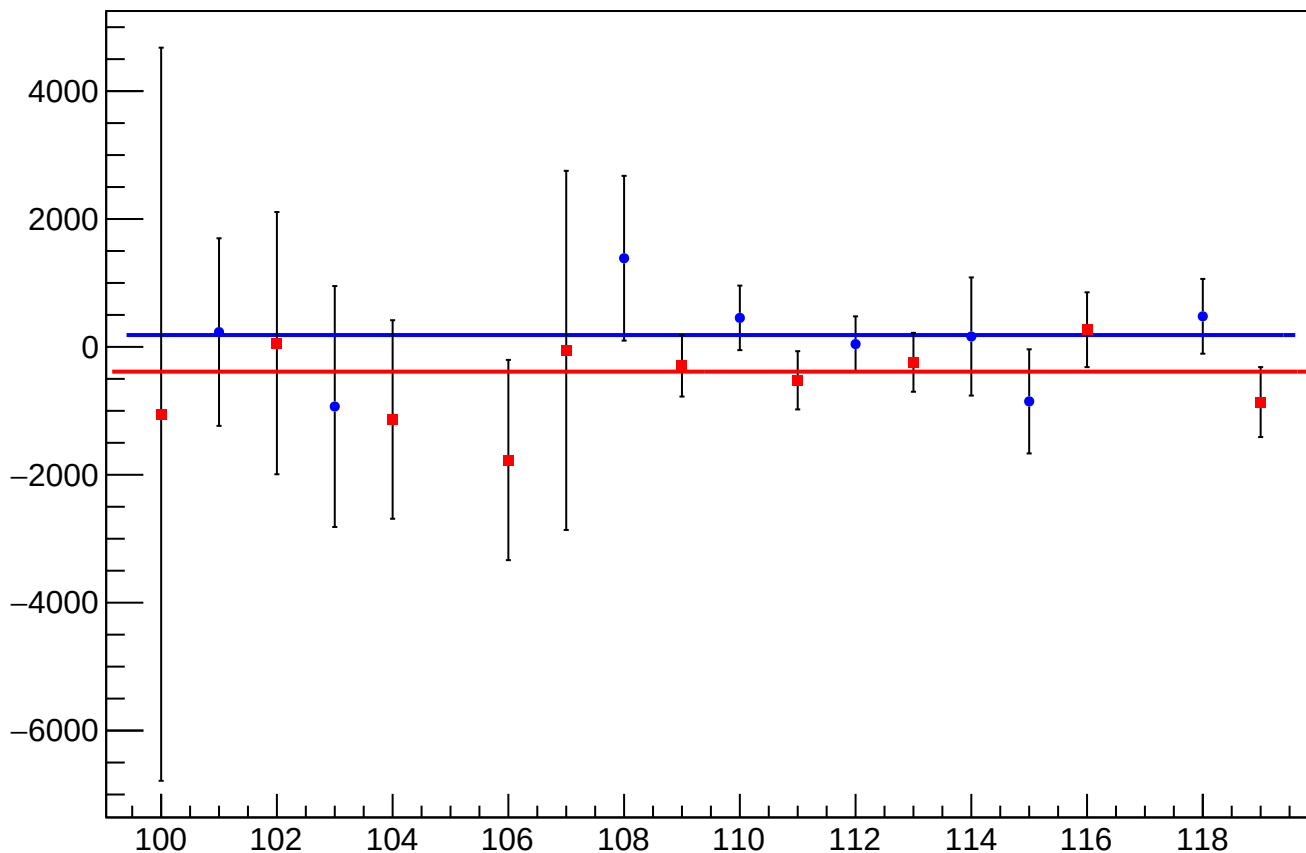
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1167.644+/-0.316  $\chi^2/\text{NDF}$ : 730390.2/17

- 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: 185.404 $\pm$ 248.448  $\chi^2$ /NDF: 3.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -386.810 $\pm$ 216.420  $\chi^2$ /NDF: 3.3/9

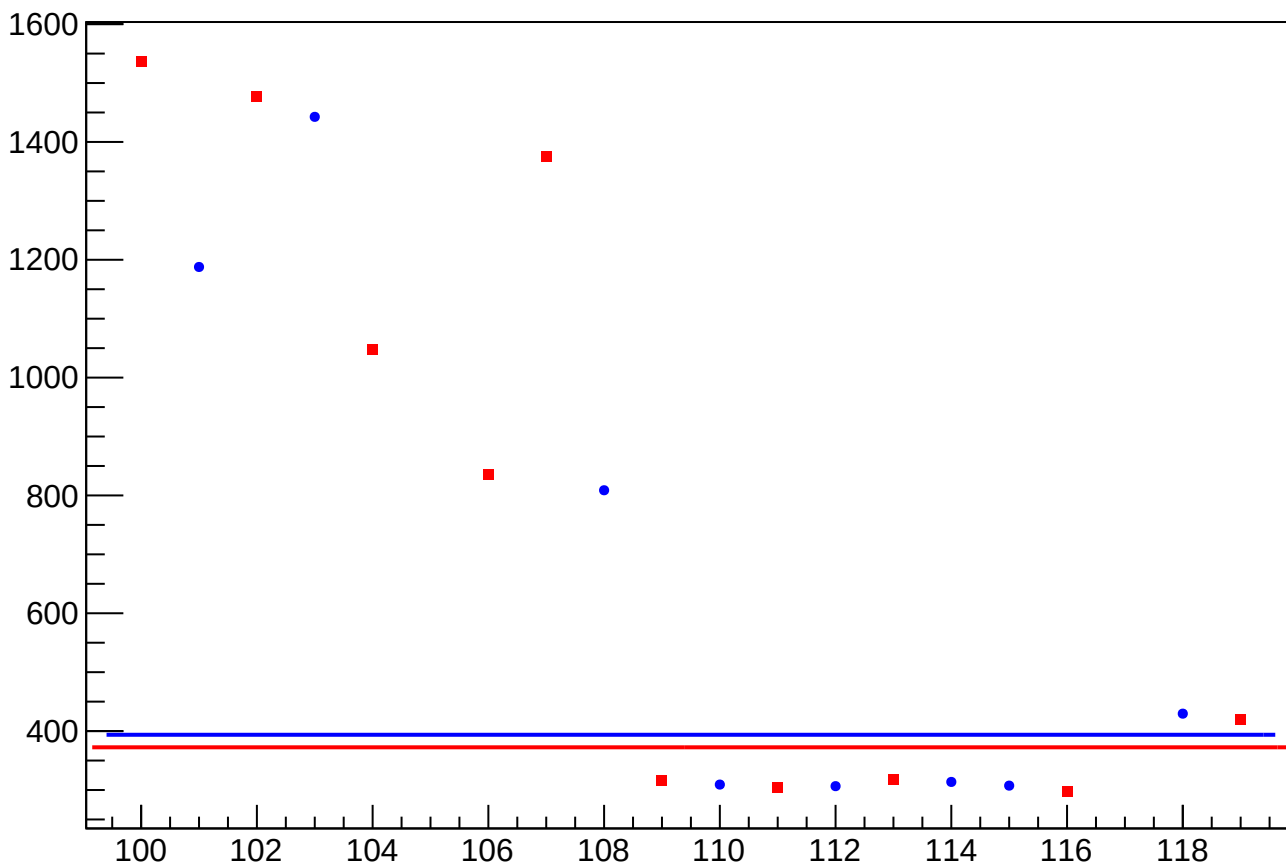
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -139.941 $\pm$ 163.189  $\chi^2$ /NDF: 9.8/17

- 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: 393.748+/-0.176  $\chi^2/\text{NDF}$ : 1595844.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 372.466+/-0.153  $\chi^2/\text{NDF}$ : 1621964.8/9

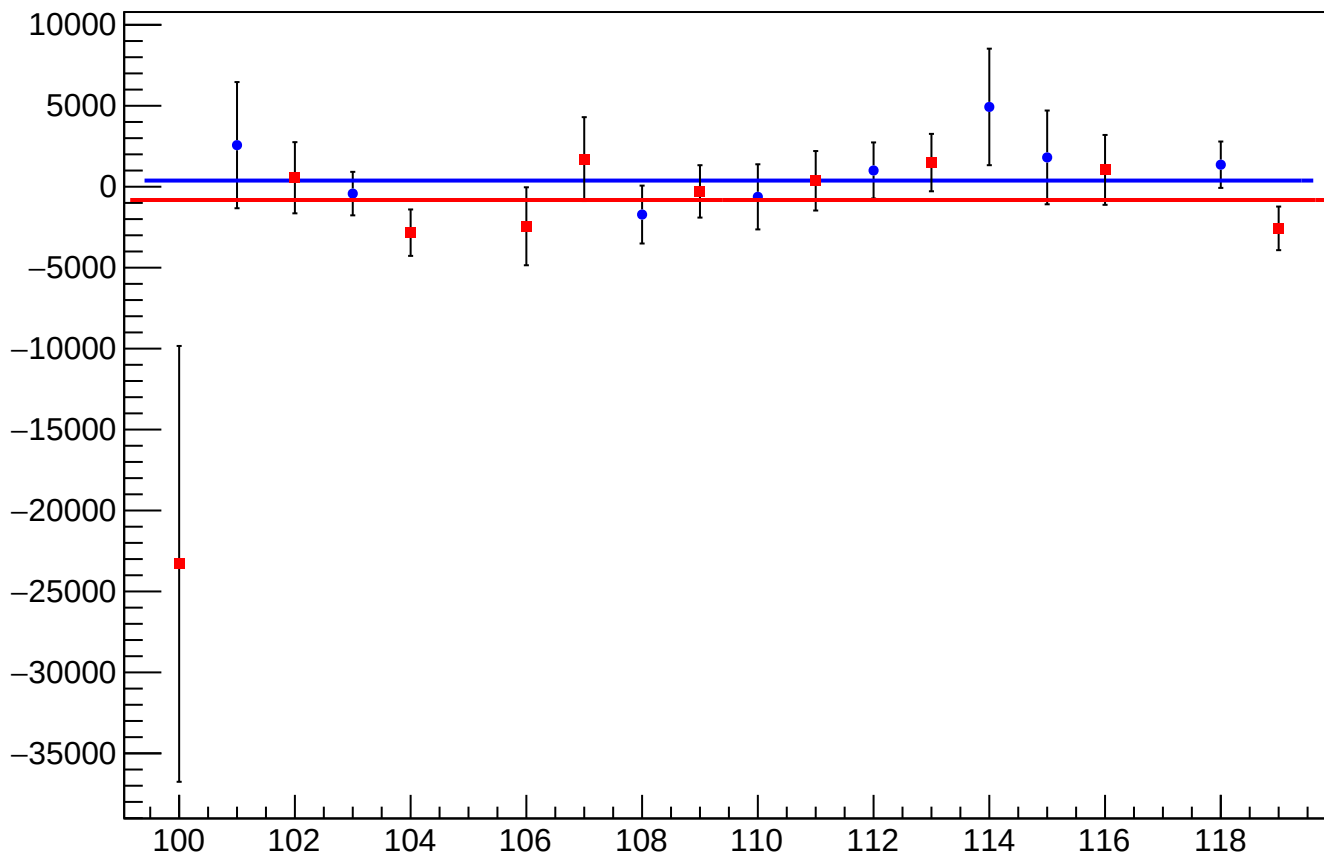
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 381.648+/-0.115  $\chi^2/\text{NDF}$ : 3226152.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: 380.562 $\pm$ 674.655  $\chi^2$ /NDF: 4.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -820.027 $\pm$ 599.475  $\chi^2$ /NDF: 11.2/9

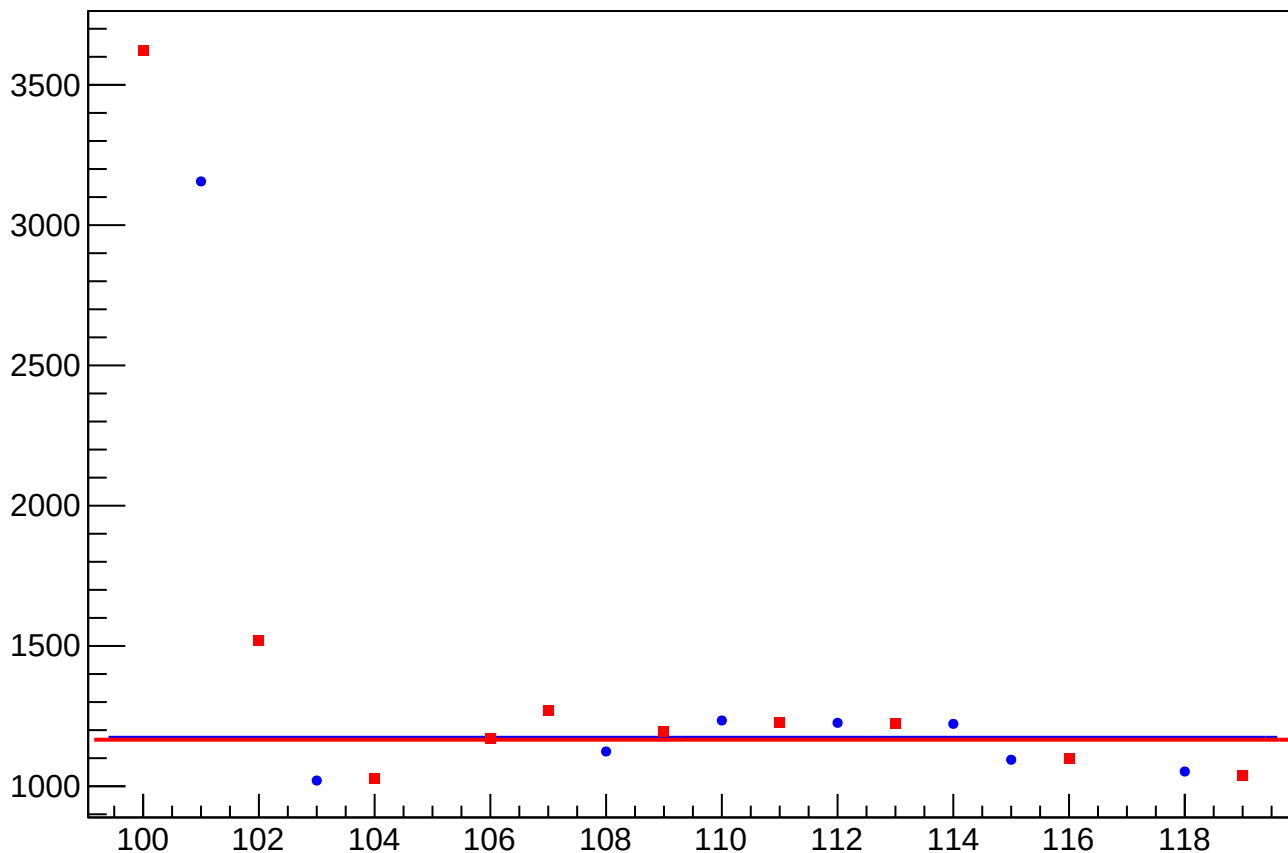
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -290.328 $\pm$ 448.125  $\chi^2$ /NDF: 17.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1172.592 $\pm$ 0.477  $\chi^2$ /NDF: 564834.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1165.820 $\pm$ 0.424  $\chi^2$ /NDF: 165159.3/9

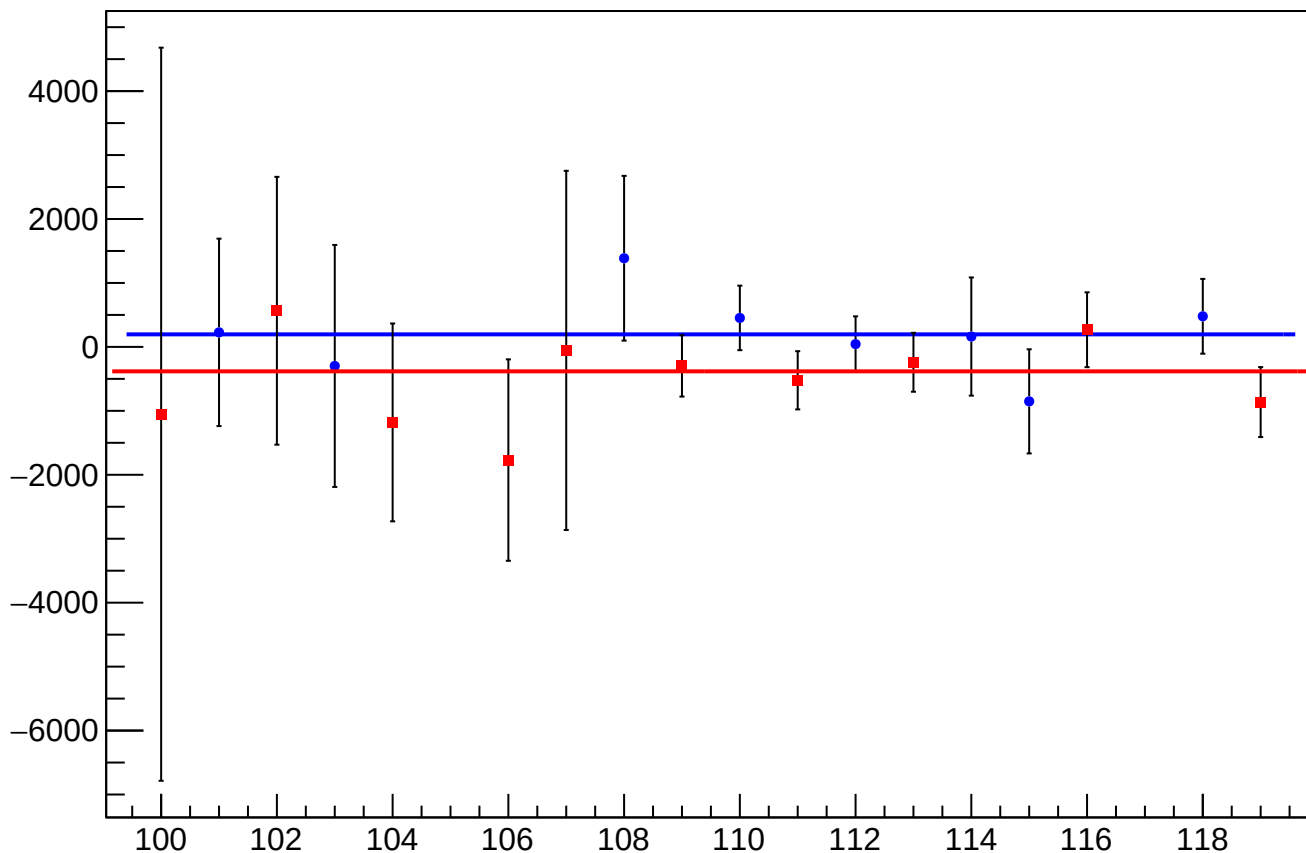
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1168.808 $\pm$ 0.317  $\chi^2$ /NDF: 730106.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_cor\_correction\_mean vs Slug



Right In: 196.111 $\pm$ 248.460  $\chi^2$ /NDF: 3.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -382.300 $\pm$ 216.485  $\chi^2$ /NDF: 3.5/9

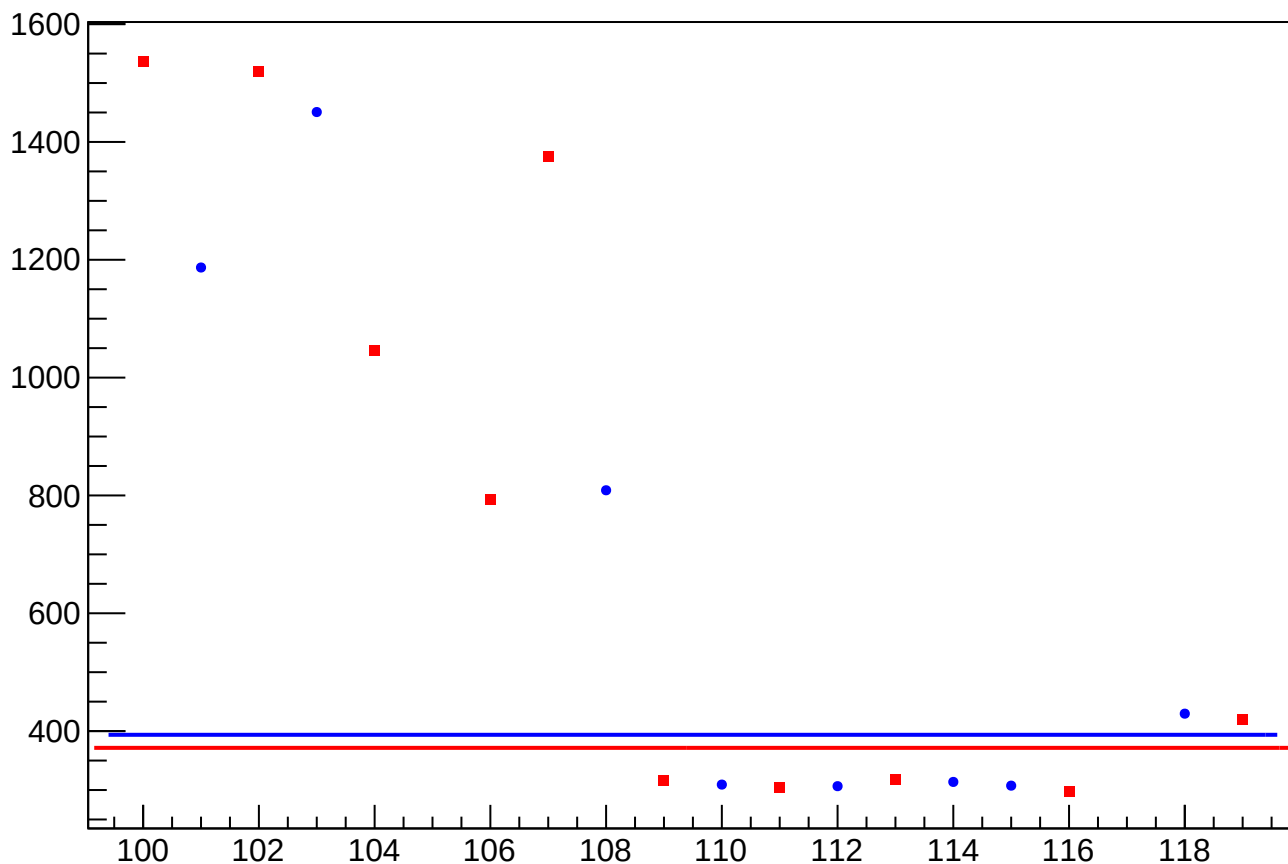
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -132.685 $\pm$ 163.220  $\chi^2$ /NDF: 9.8/17

- 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: 393.731+/-0.176  $\chi^2/\text{NDF}$ : 1599514.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 371.570+/-0.153  $\chi^2/\text{NDF}$ : 1608972.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

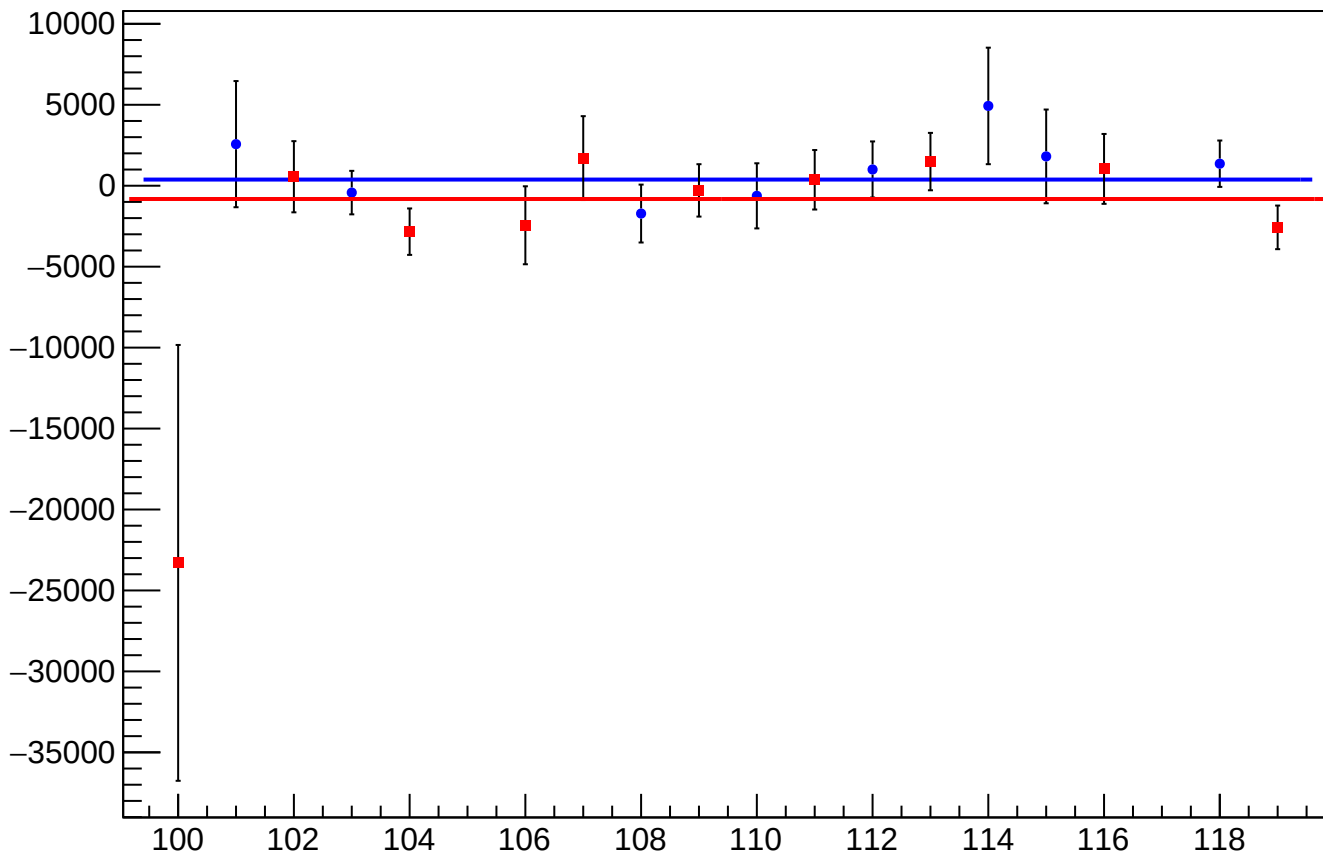
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 381.134+/-0.115  $\chi^2/\text{NDF}$ : 3217530.4/17

- 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: 380.562 $\pm$ 674.655  $\chi^2$ /NDF: 4.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -820.027 $\pm$ 599.475  $\chi^2$ /NDF: 11.2/9

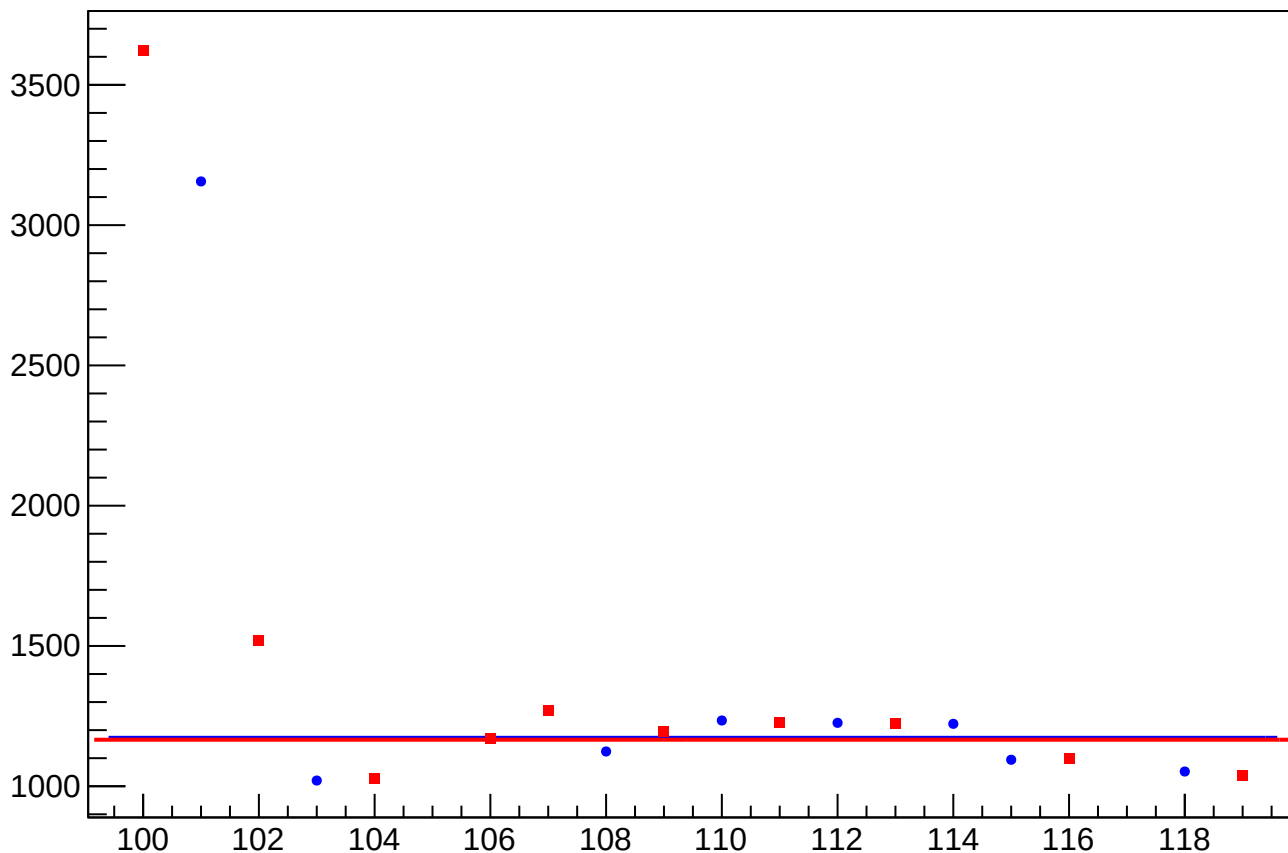
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -290.328 $\pm$ 448.125  $\chi^2$ /NDF: 17.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1172.592 $\pm$ 0.477  $\chi^2$ /NDF: 564834.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1165.820 $\pm$ 0.424  $\chi^2$ /NDF: 165159.3/9

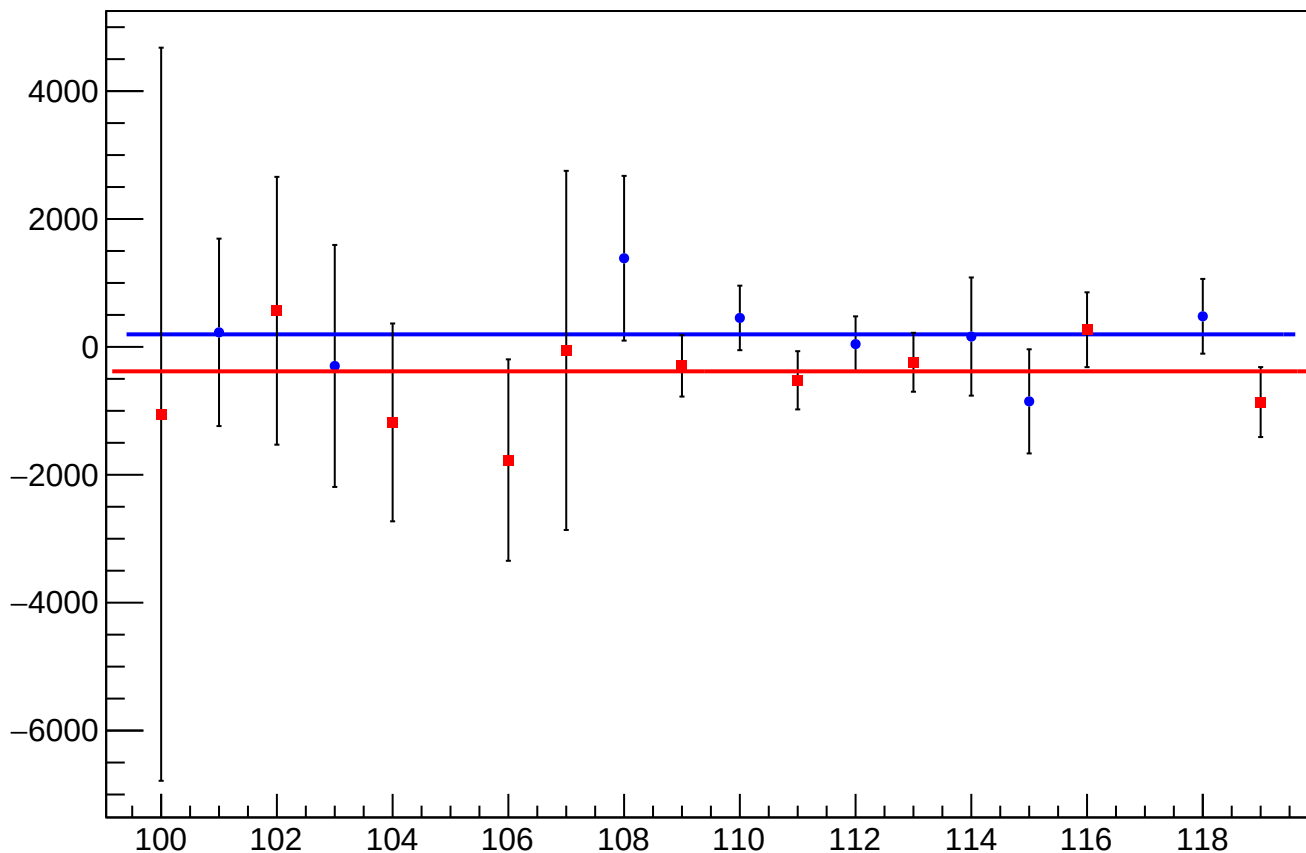
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1168.808 $\pm$ 0.317  $\chi^2$ /NDF: 730106.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 196.111 $\pm$ 248.460  $\chi^2$ /NDF: 3.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -382.300 $\pm$ 216.485  $\chi^2$ /NDF: 3.5/9

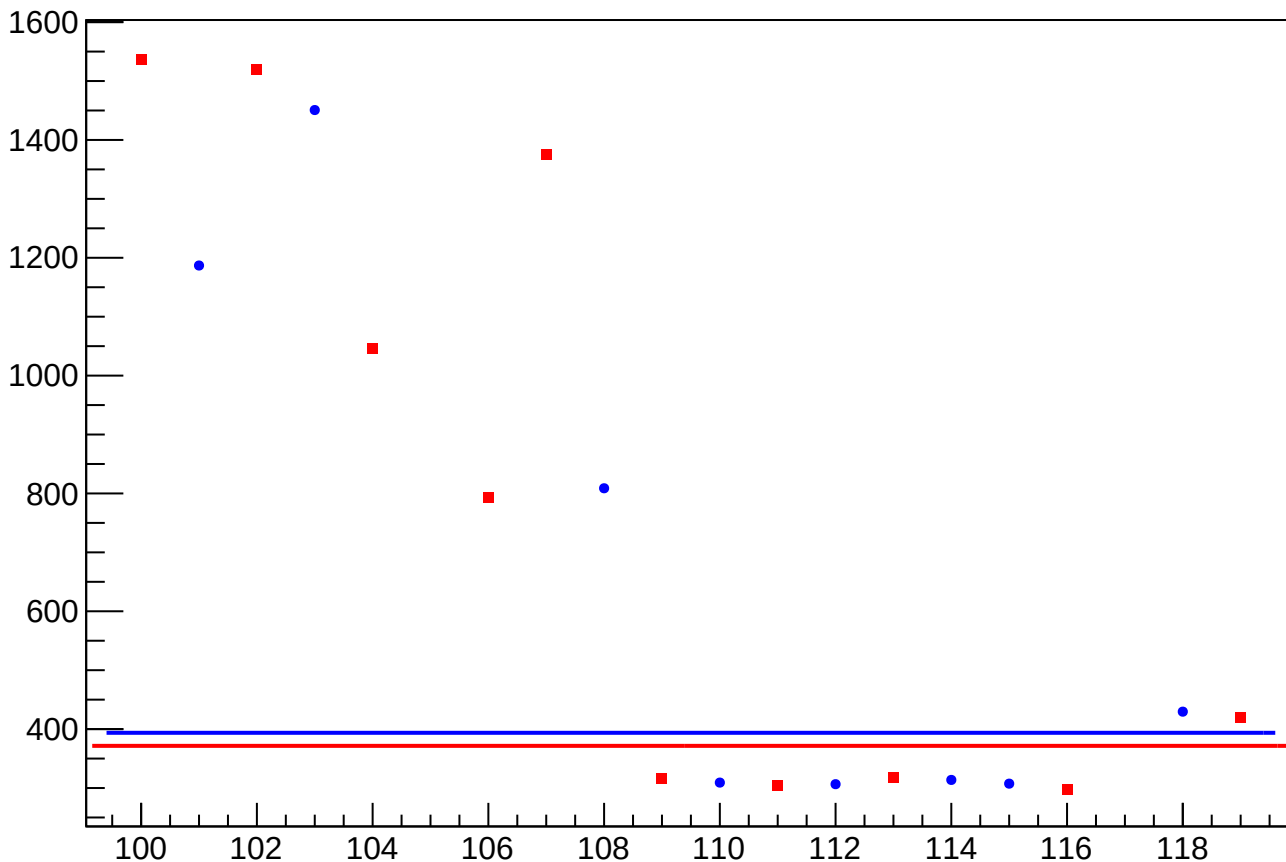
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -132.685 $\pm$ 163.220  $\chi^2$ /NDF: 9.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 393.731+/-0.176  $\chi^2/\text{NDF}$ : 1599514.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 371.570+/-0.153  $\chi^2/\text{NDF}$ : 1608972.3/9

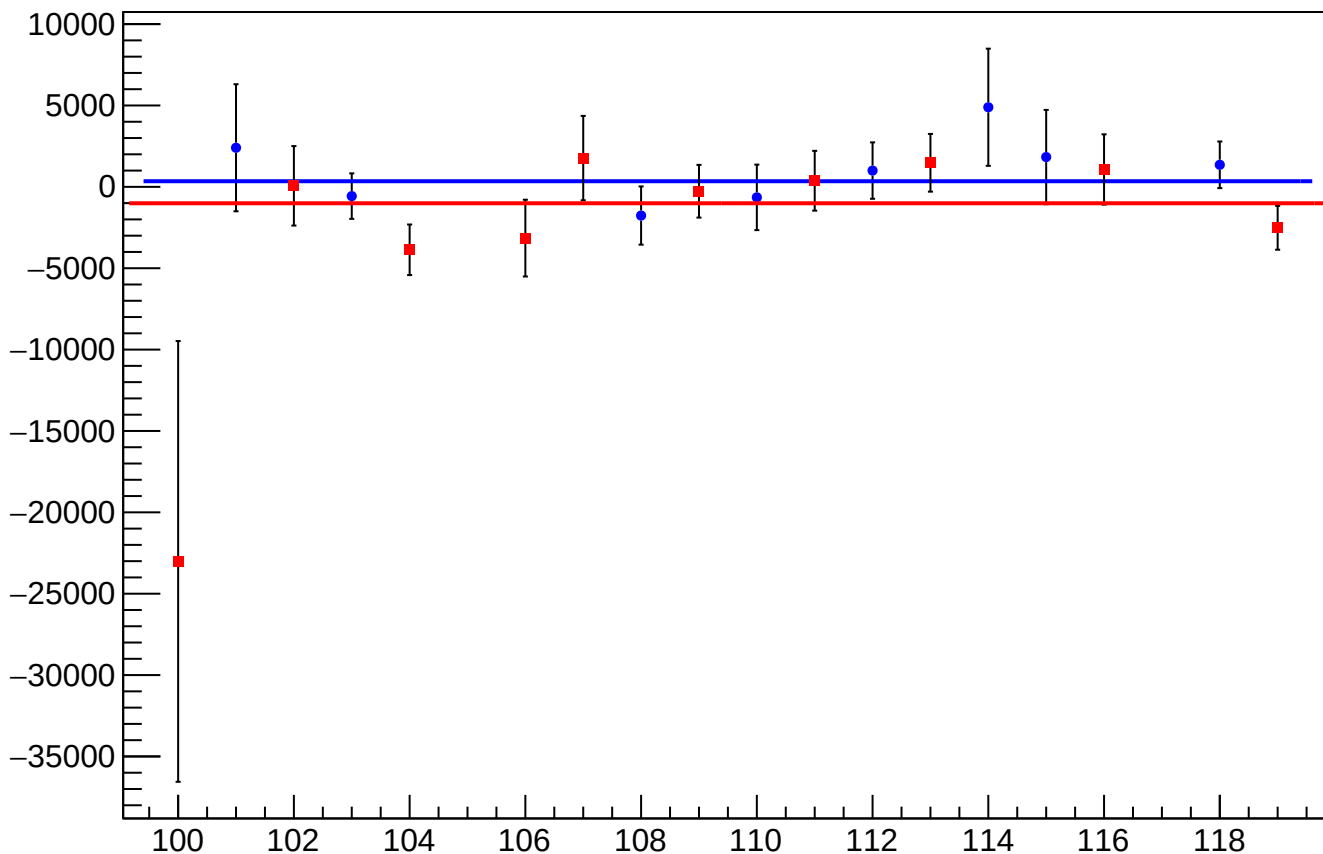
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 381.134+/-0.115  $\chi^2/\text{NDF}$ : 3217530.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: 345.677 $\pm$ 681.499  $\chi^2$ /NDF: 4.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1008.159 $\pm$ 611.317  $\chi^2$ /NDF: 13.1/9

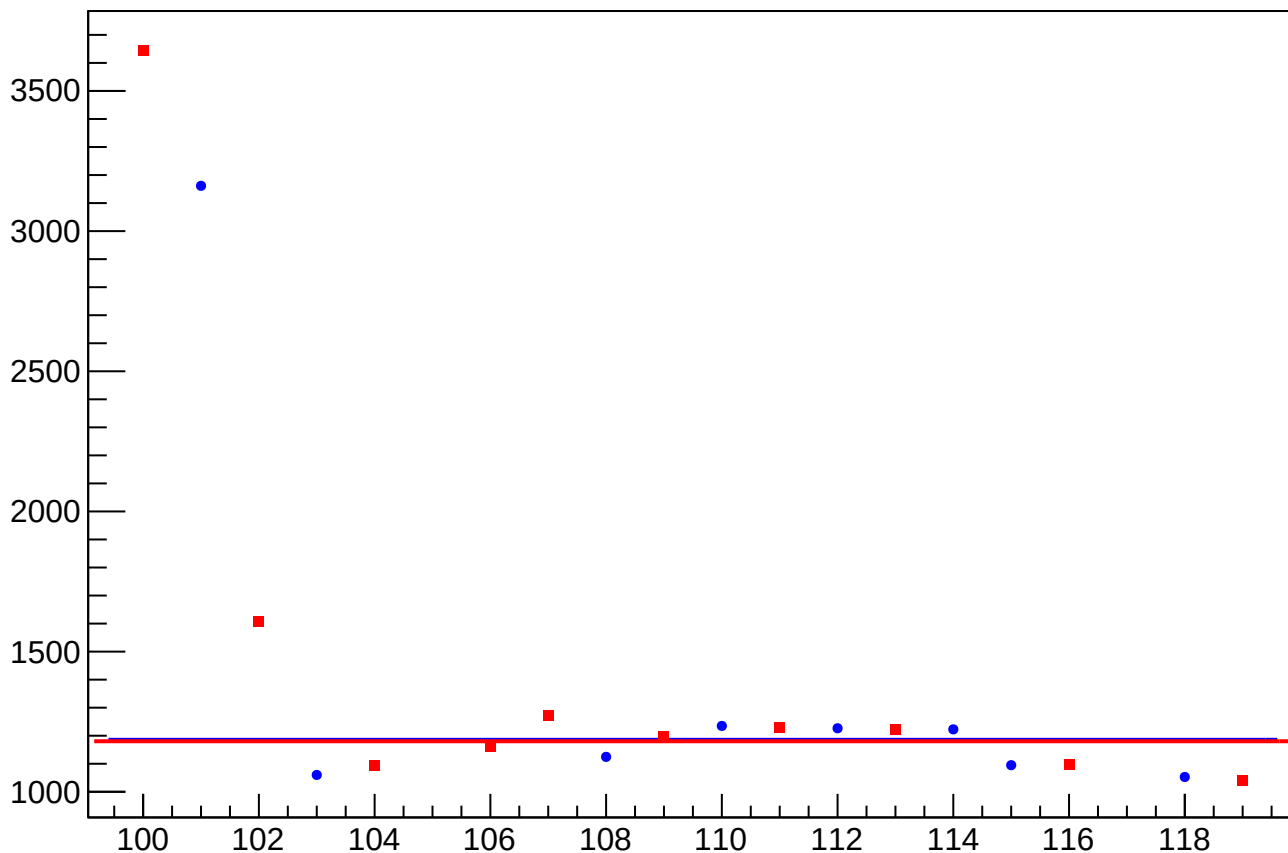
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -404.520 $\pm$ 455.062  $\chi^2$ /NDF: 20.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1185.362 $\pm$ 0.482  $\chi^2$ /NDF: 552431.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1180.241 $\pm$ 0.432  $\chi^2$ /NDF: 163187.9/9

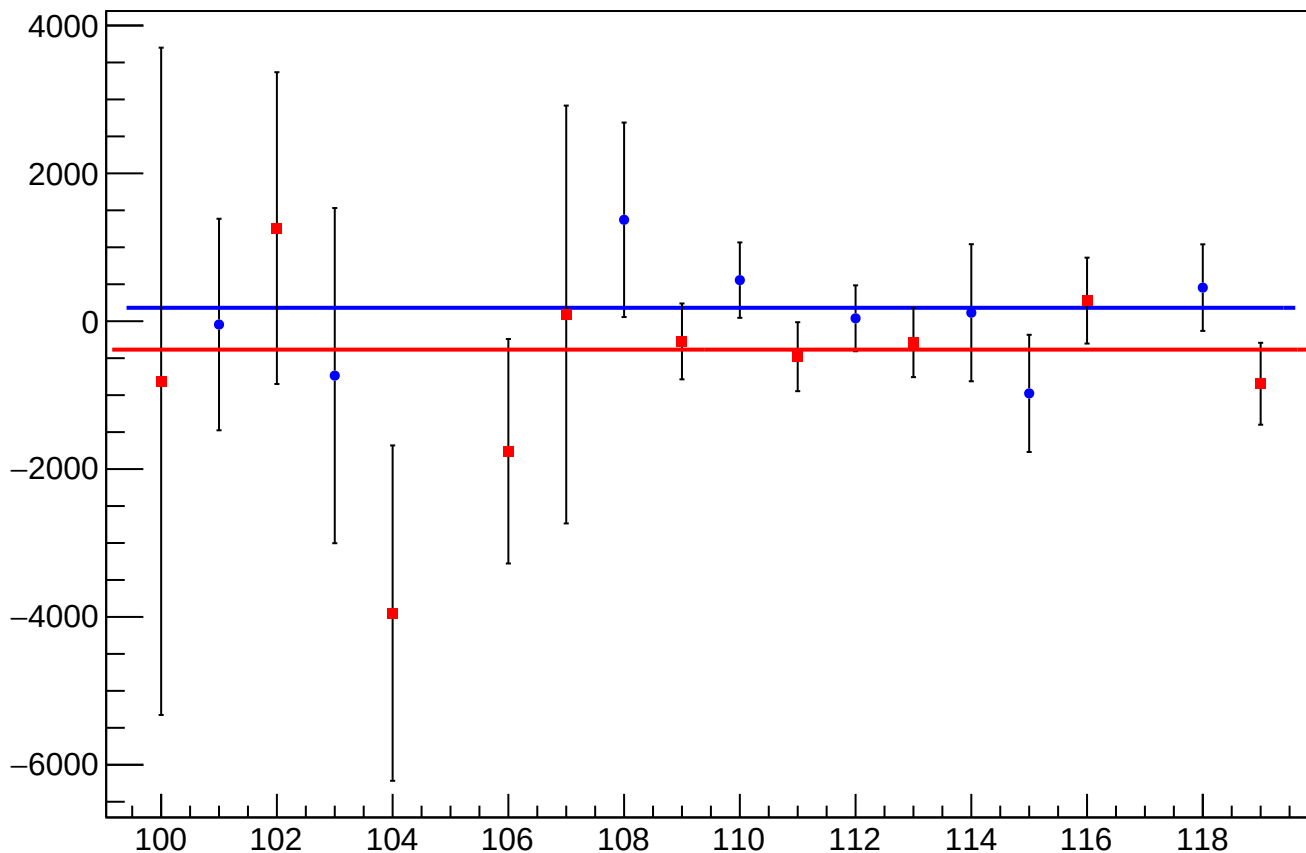
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1182.524 $\pm$ 0.322  $\chi^2$ /NDF: 715682.4/17

- 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: 181.621+/-251.461  $\chi^2/\text{NDF}$ : 4.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -384.235+/-222.428  $\chi^2/\text{NDF}$ : 6.1/9

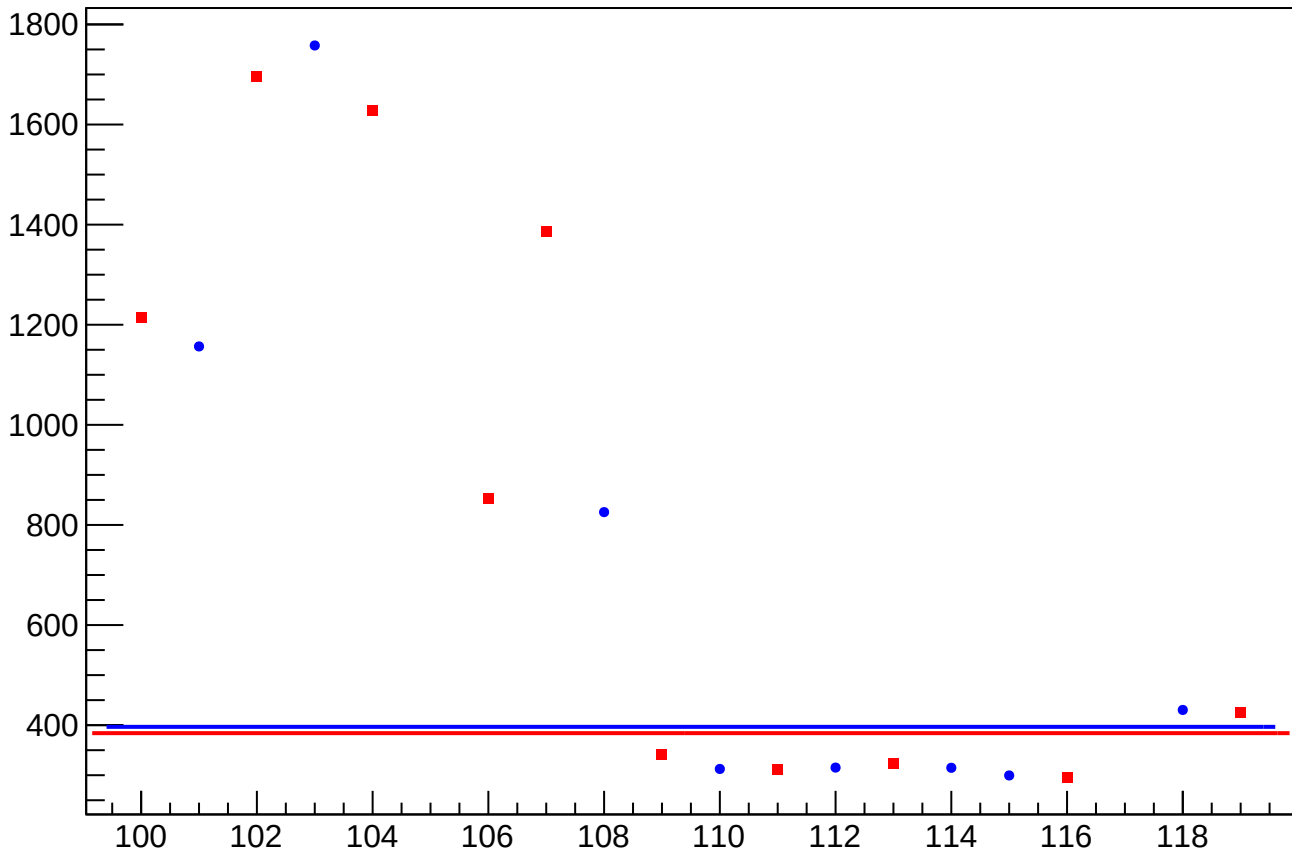
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -135.845+/-166.604  $\chi^2/\text{NDF}$ : 12.9/17

- 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: 396.624 $\pm$ 0.178  $\chi^2$ /NDF: 1671687.8/7

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: 384.027 $\pm$ 0.157  $\chi^2$ /NDF: 2038068.2/9

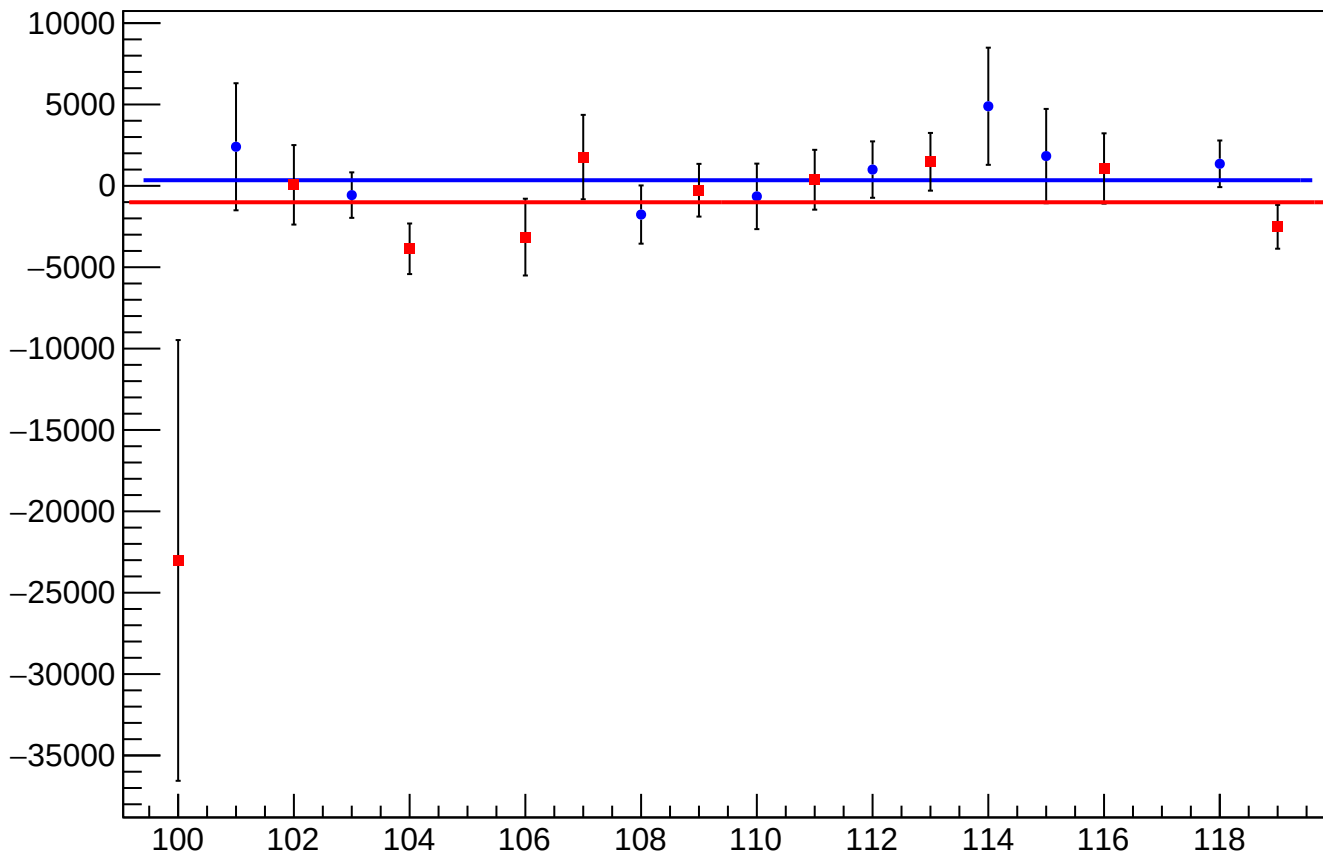
All: 389.557 $\pm$ 0.118  $\chi^2$ /NDF: 3712571.7/17

- 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\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: 345.672 $\pm$ 681.499  $\chi^2$ /NDF: 4.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1008.155 $\pm$ 611.317  $\chi^2$ /NDF: 13.1/9

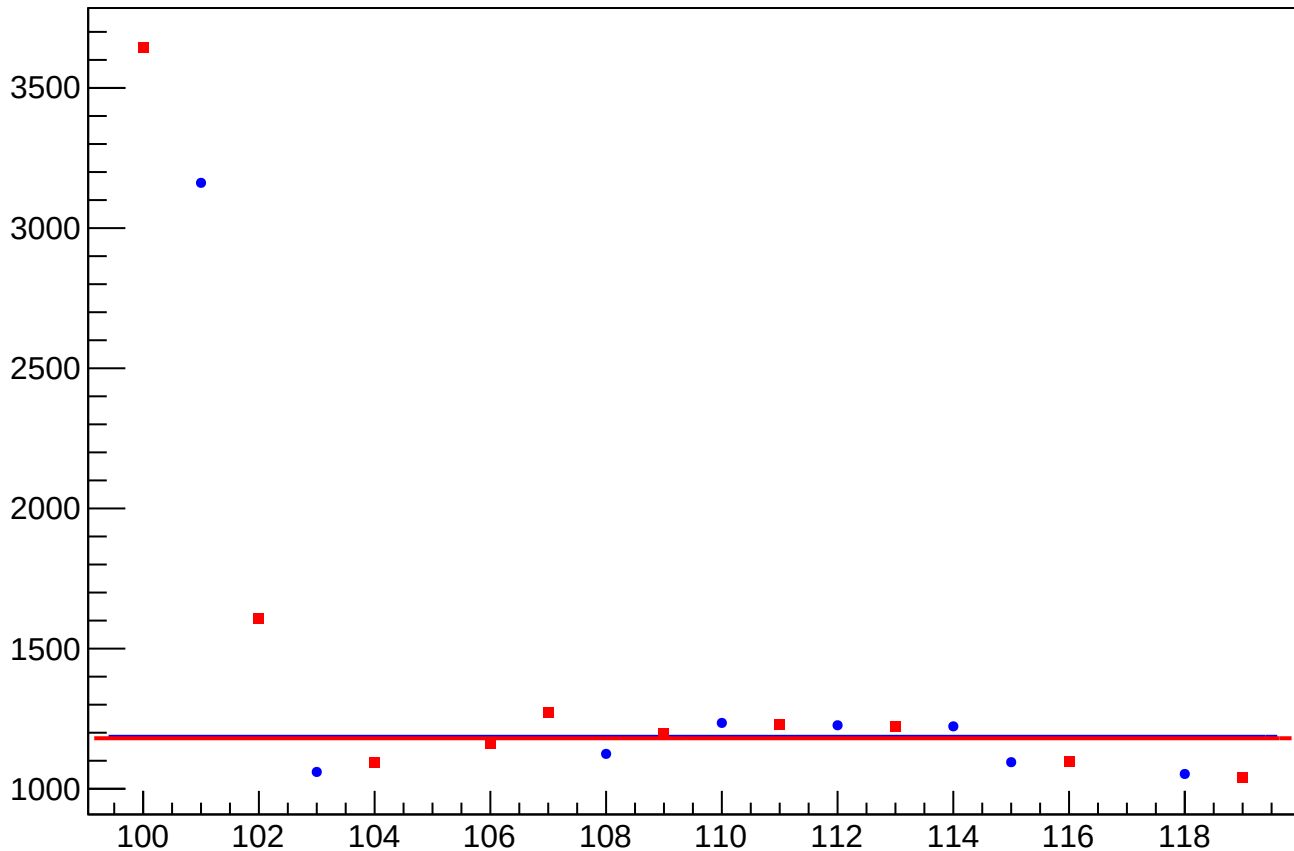
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -404.520 $\pm$ 455.062  $\chi^2$ /NDF: 20.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1185.362 $\pm$ 0.482  $\chi^2$ /NDF: 552431.9/7

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

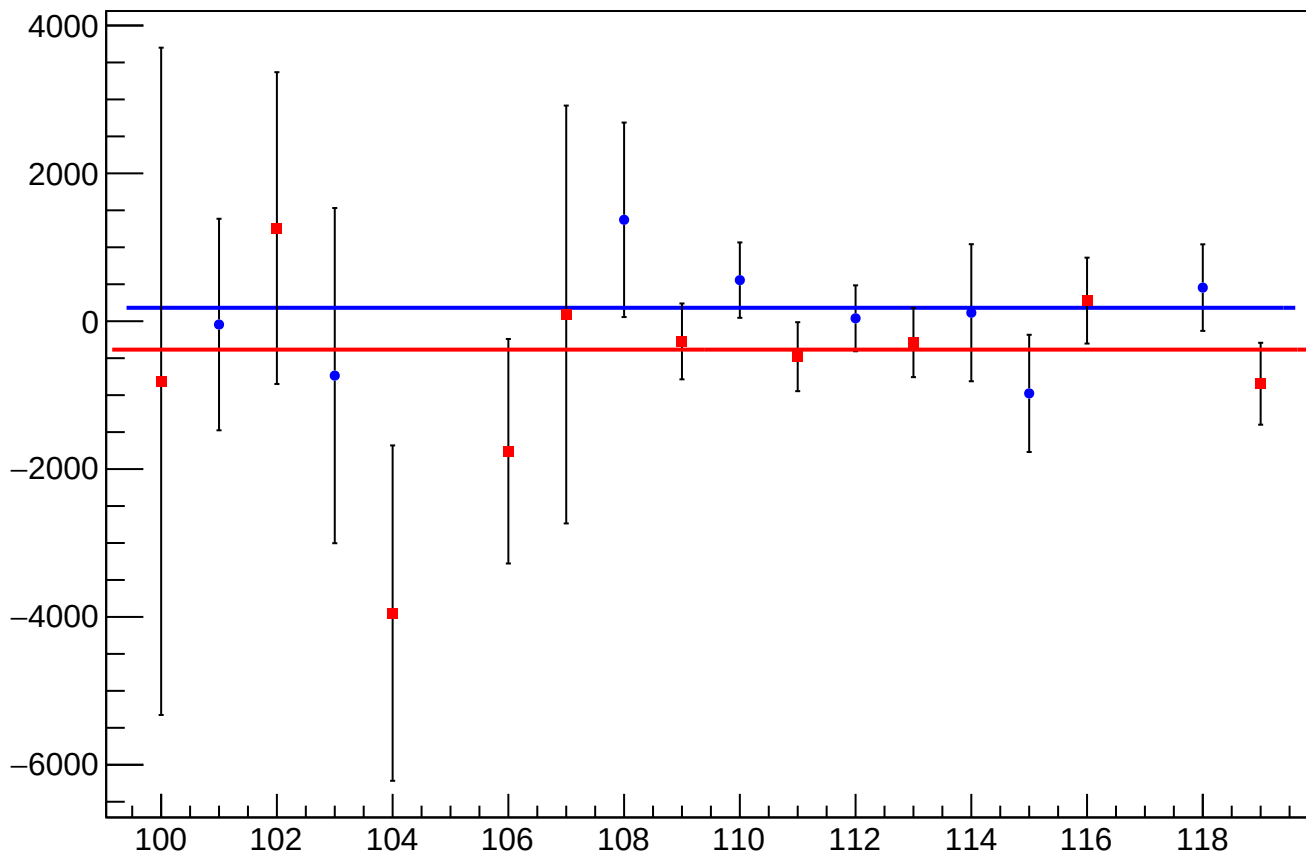
Right Out: 1180.241 $\pm$ 0.432  $\chi^2$ /NDF: 163187.9/9

All: 1182.524 $\pm$ 0.322  $\chi^2$ /NDF: 715682.4/17

- 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\_atlr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 181.615+/-251.460  $\chi^2/\text{NDF}$ : 4.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -384.230+/-222.426  $\chi^2/\text{NDF}$ : 6.1/9

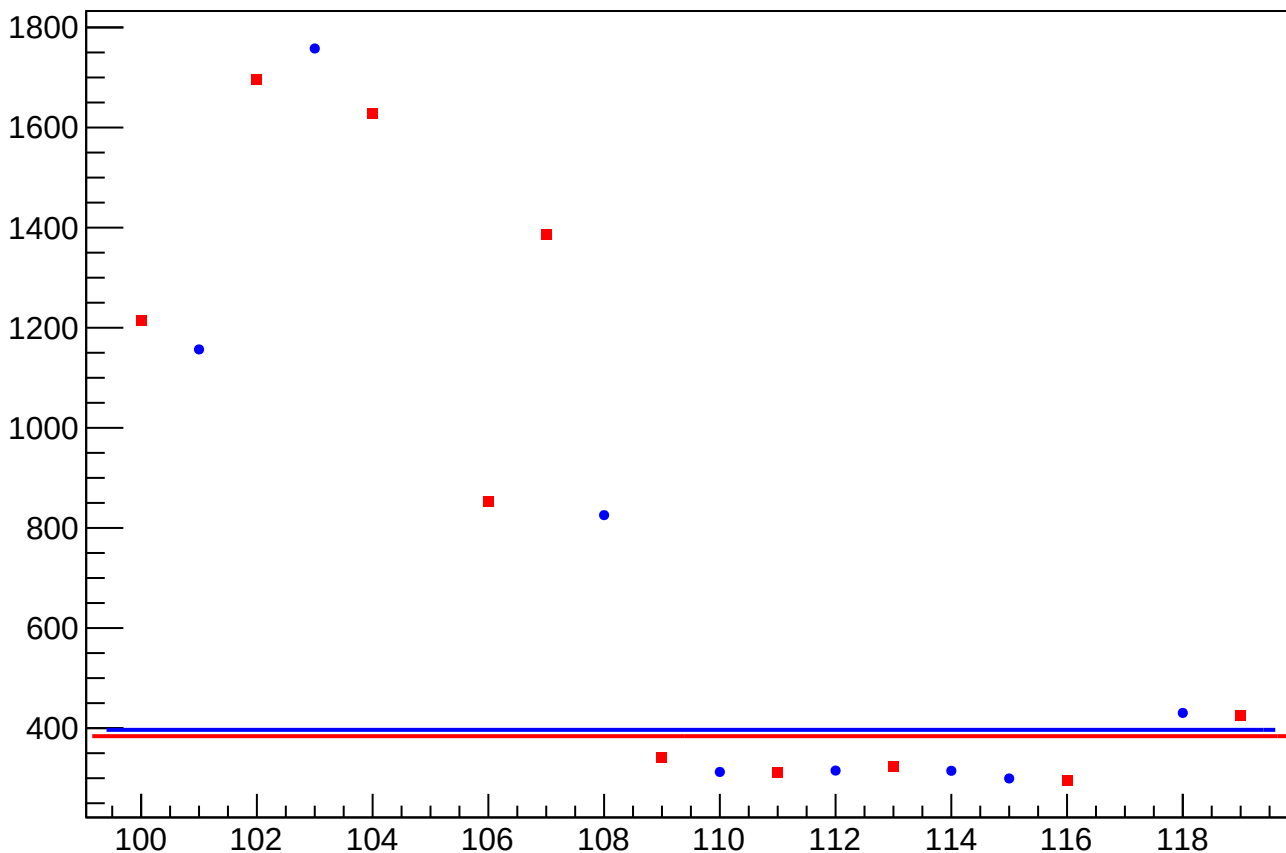
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -135.846+/-166.603  $\chi^2/\text{NDF}$ : 12.9/17

- 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: 396.622 $\pm$ 0.178  $\chi^2$ /NDF: 1671692.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 384.024 $\pm$ 0.157  $\chi^2$ /NDF: 2038081.1/9

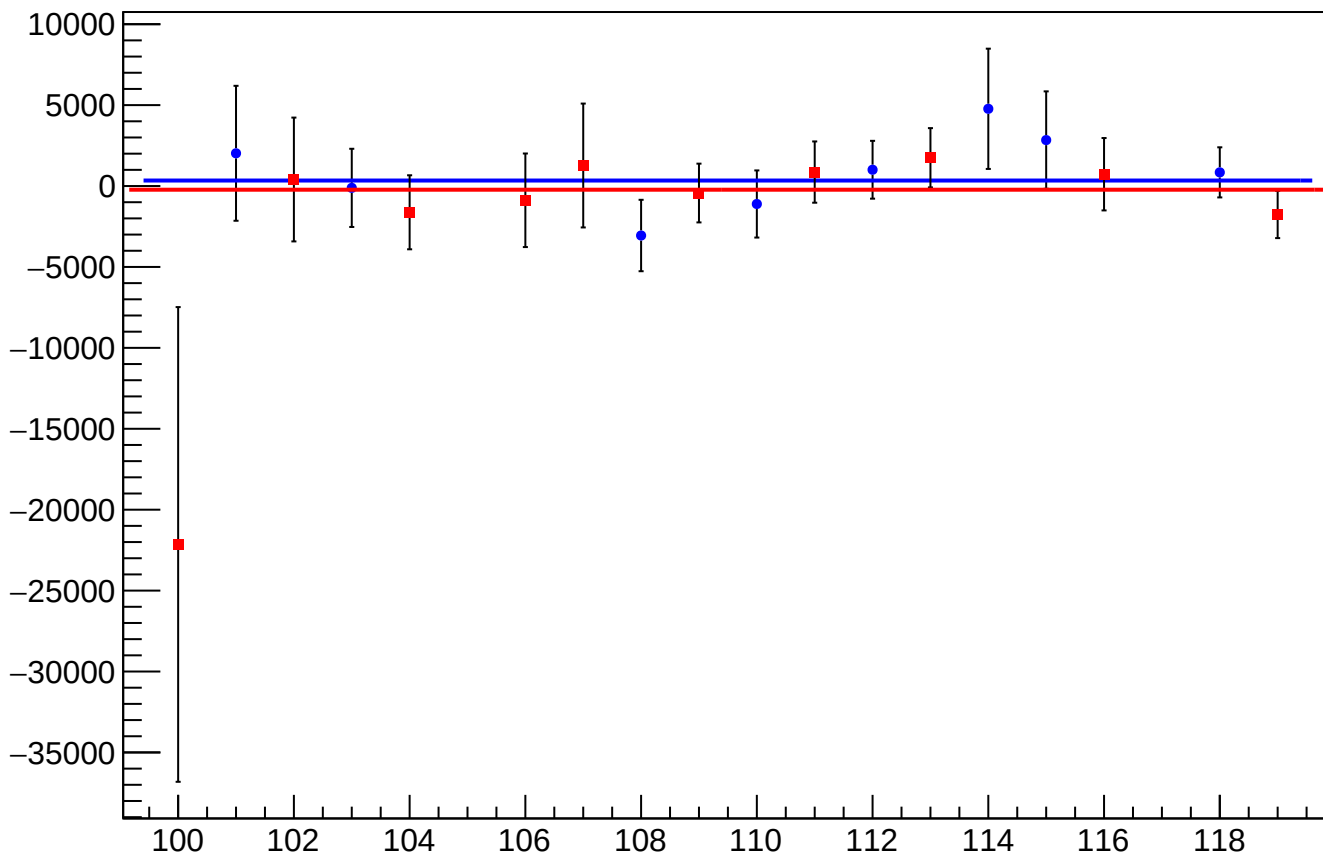
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 389.554 $\pm$ 0.118  $\chi^2$ /NDF: 3712590.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: 340.249+/-795.563  $\chi^2$ /NDF: 5.4/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -227.473+/-706.693  $\chi^2$ /NDF: 5.6/9

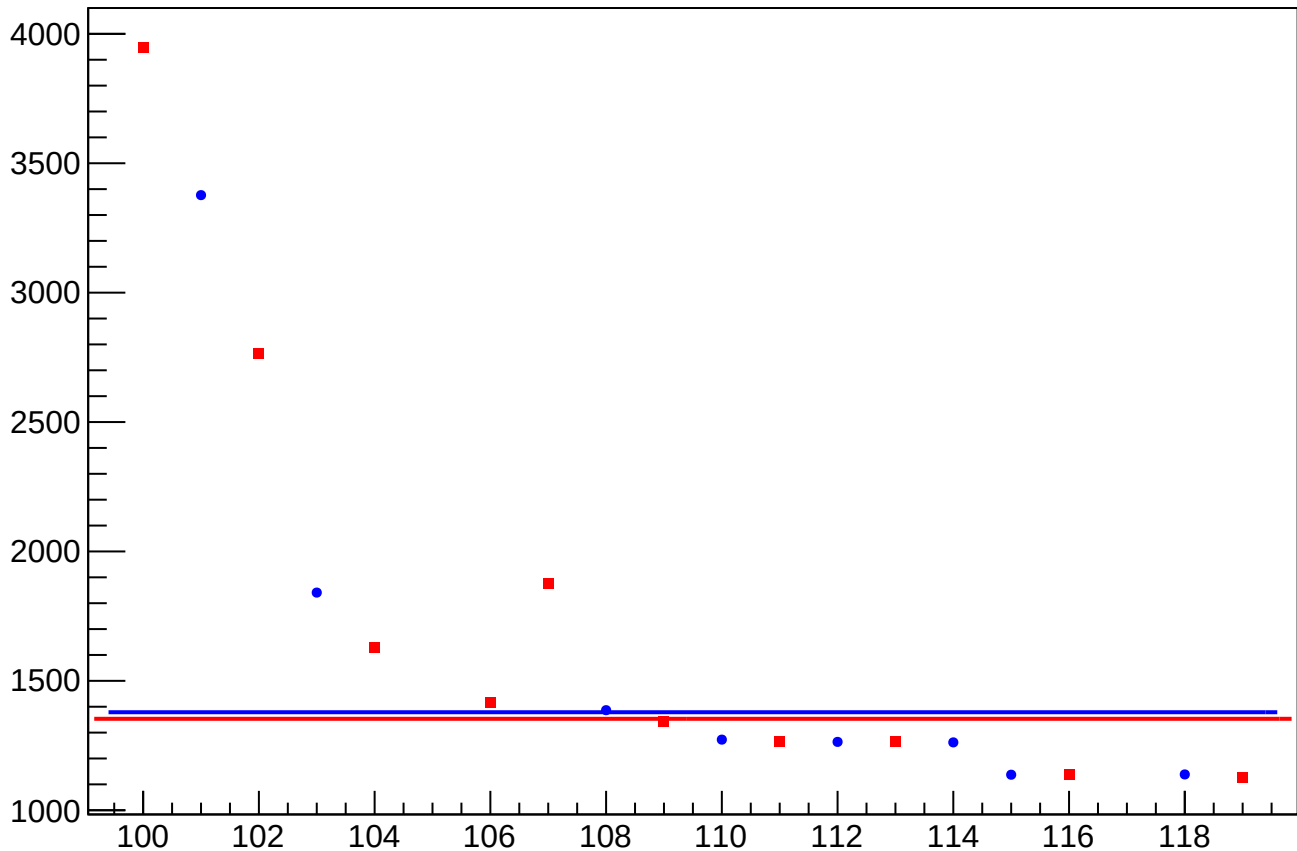
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 22.920+/-528.345  $\chi^2$ /NDF: 11.3/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1378.701+/-0.563  $\chi^2/\text{NDF}$ : 609194.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1353.352+/-0.500  $\chi^2/\text{NDF}$ : 478320.1/9

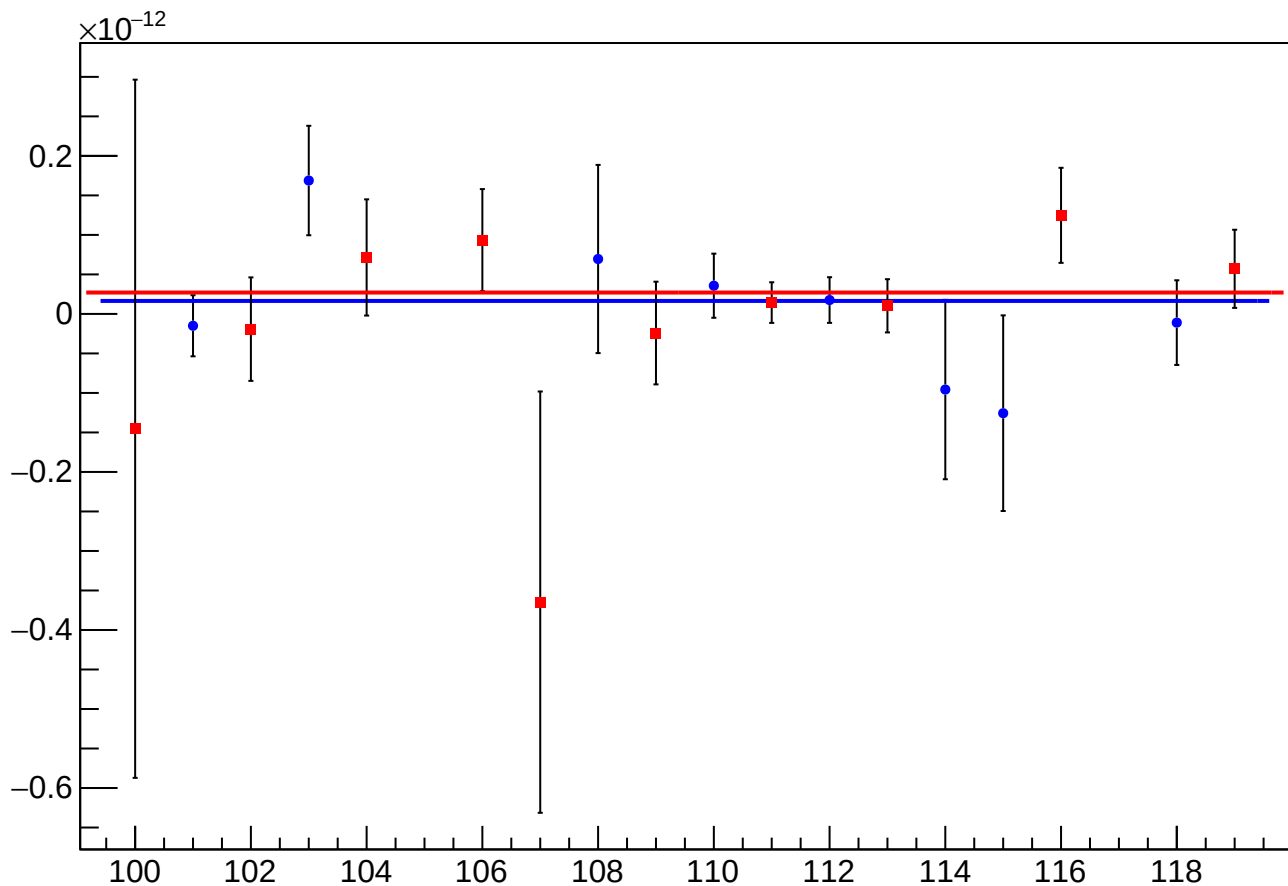
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1364.532+/-0.374  $\chi^2/\text{NDF}$ : 1088649.2/17

- 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: 8.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.4/9

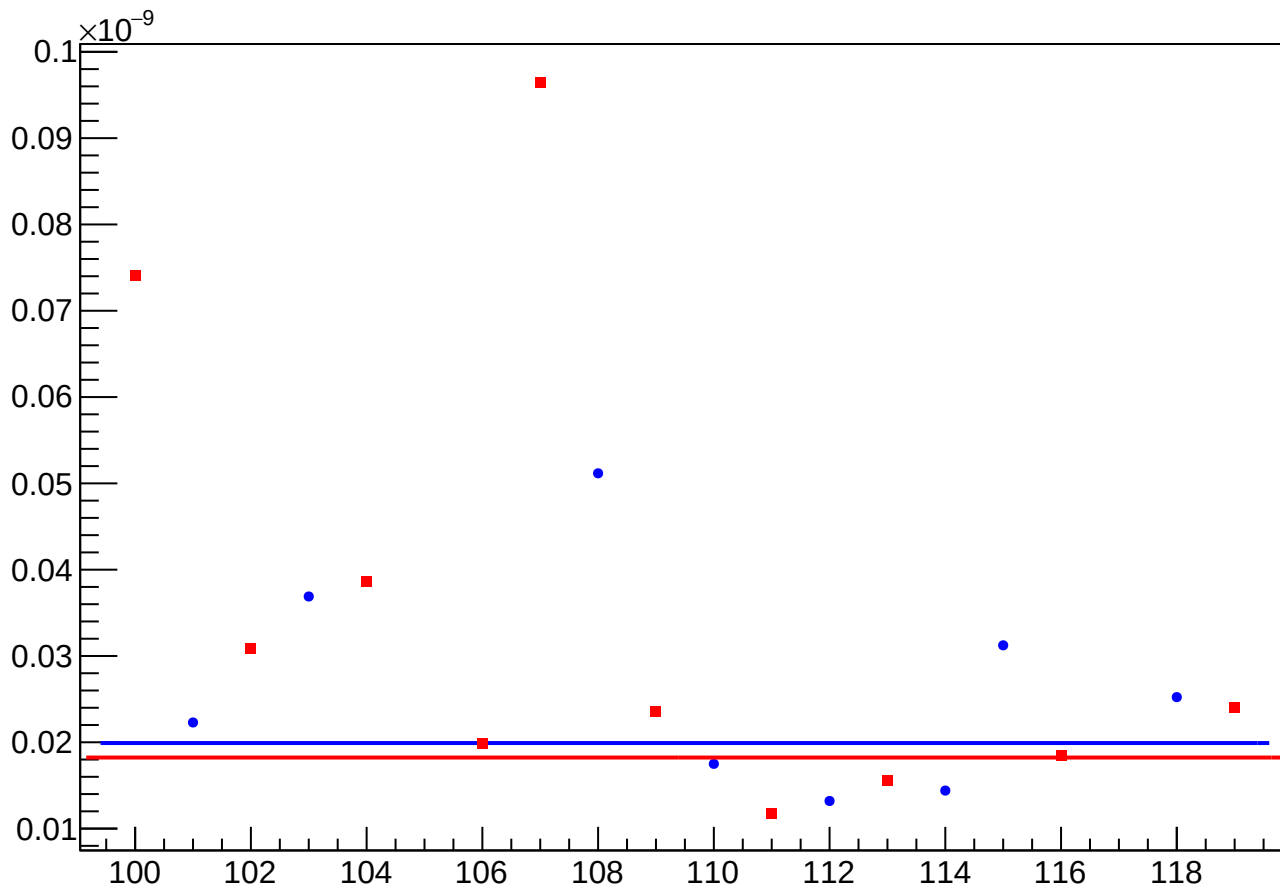
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.0/17

- 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  $\chi^2/\text{NDF}$ : 421689.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 613351.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

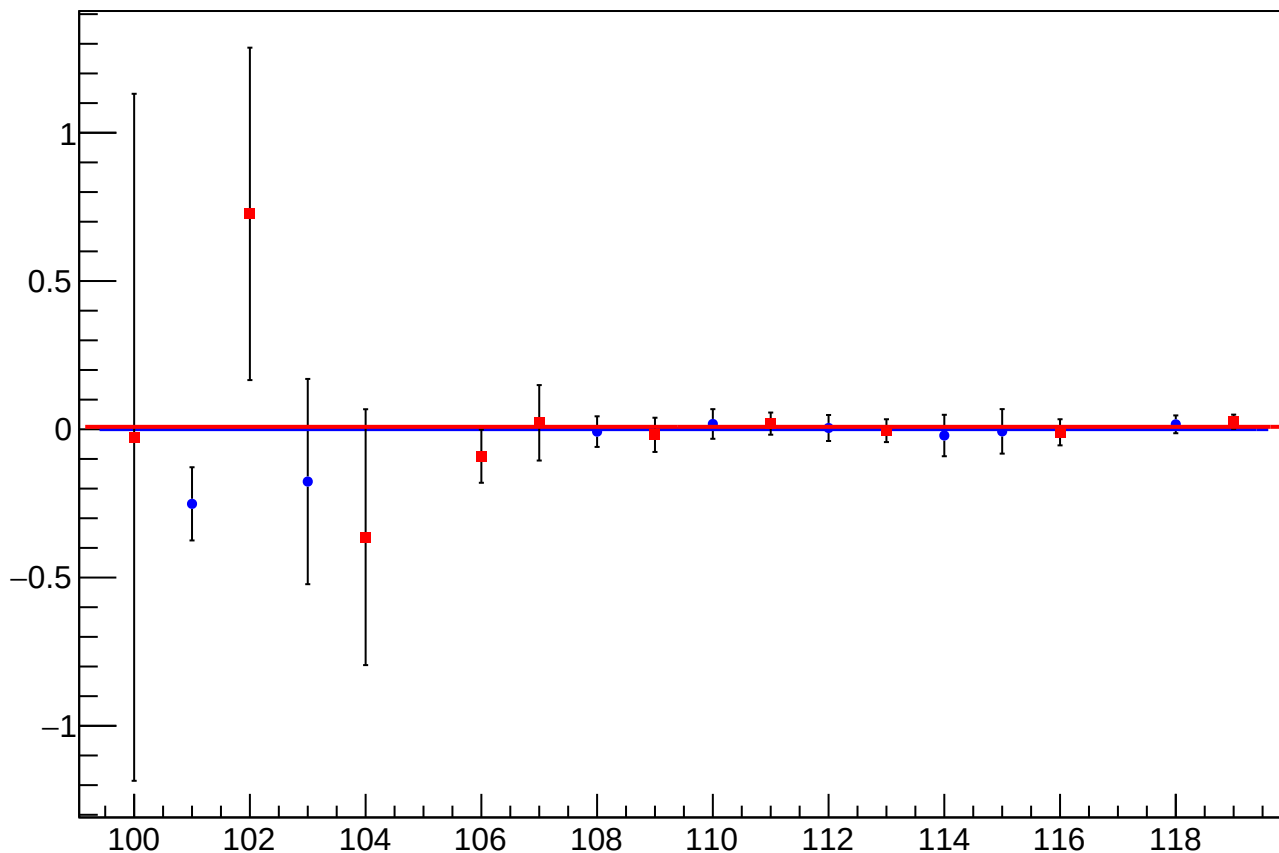
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1045136.1/17

- 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: 0.001 $\pm$ 0.019  $\chi^2$ /NDF: 5.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.008 $\pm$ 0.016  $\chi^2$ /NDF: 4.7/9

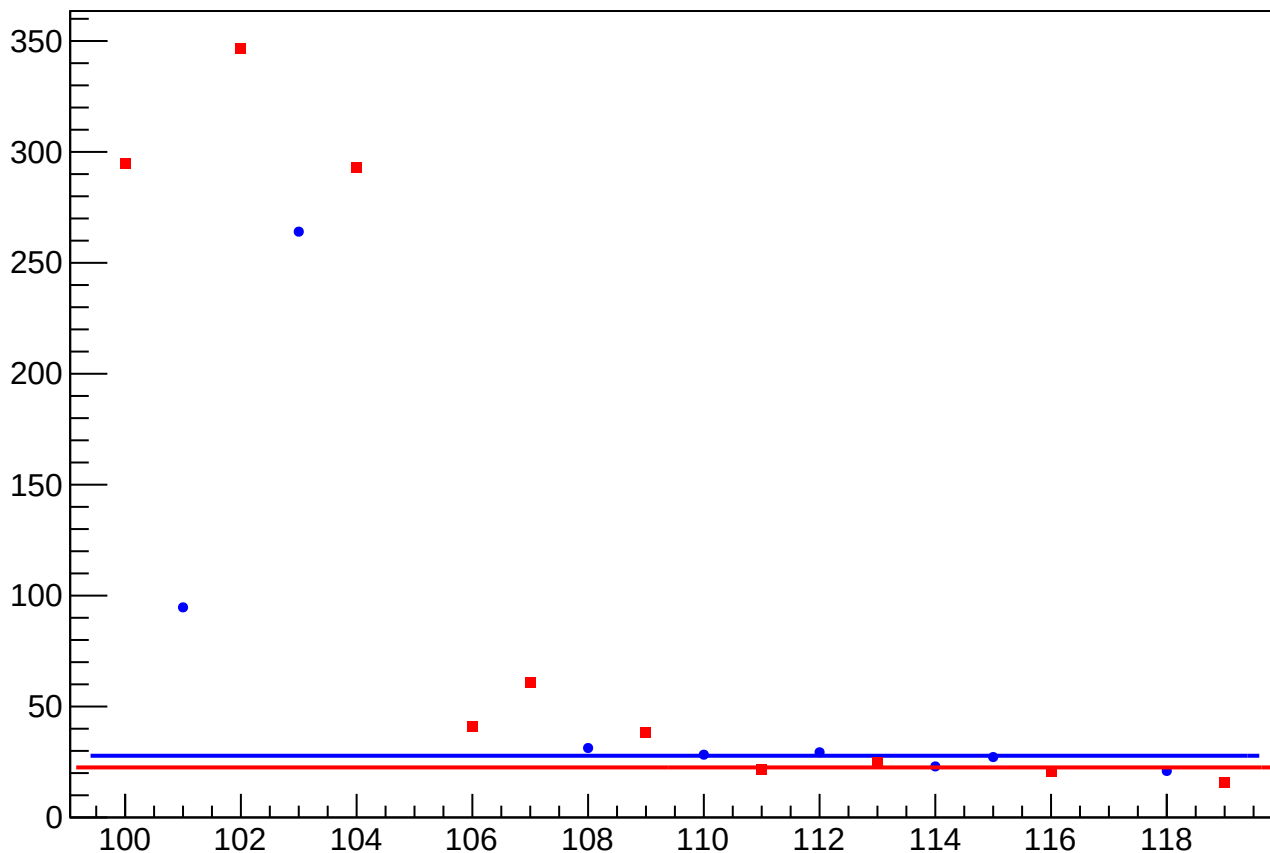
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.012  $\chi^2$ /NDF: 9.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 27.814+/-0.013  $\chi^2/\text{NDF}$ : 1644624.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.551+/-0.011  $\chi^2/\text{NDF}$ : 2164952.3/9

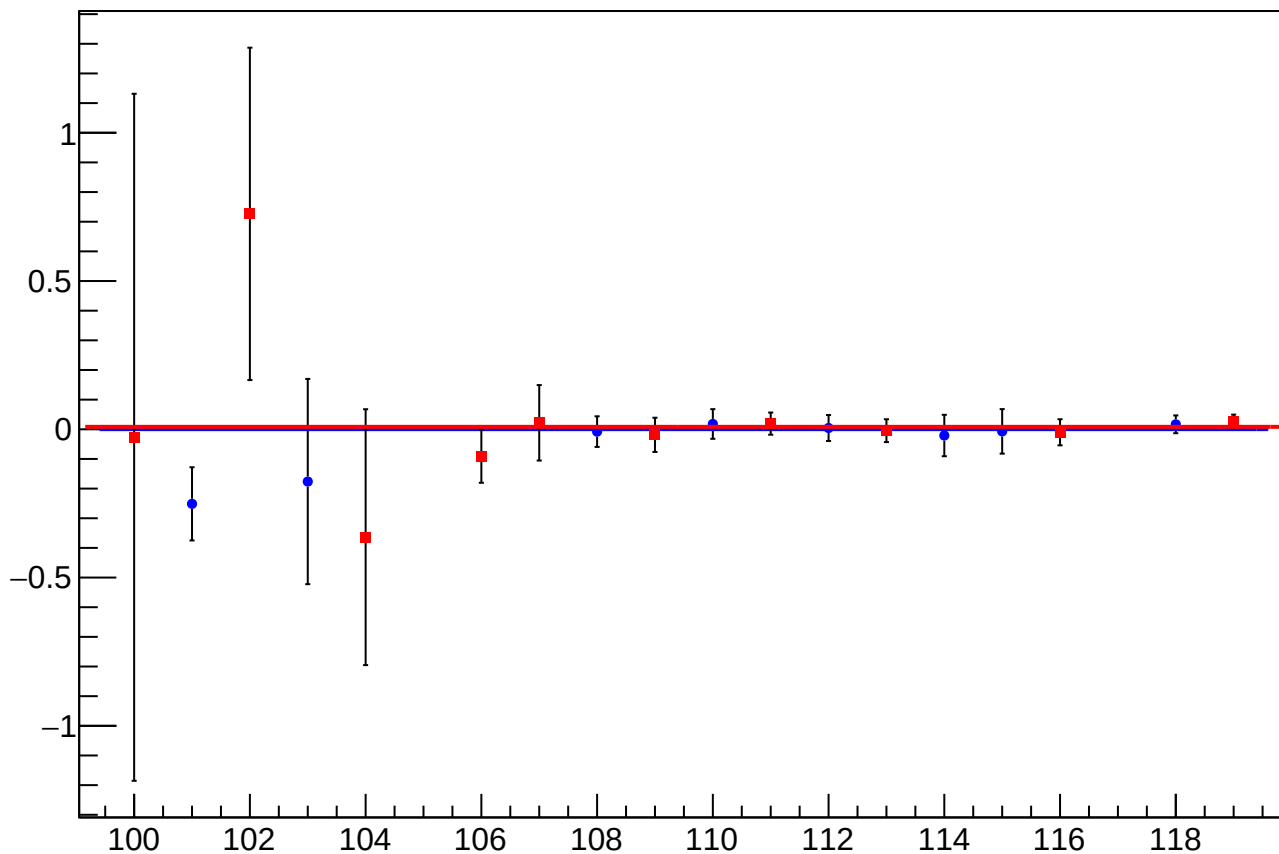
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.701+/-0.008  $\chi^2/\text{NDF}$ : 3903245.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.001 $\pm$ 0.019  $\chi^2$ /NDF: 5.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.008 $\pm$ 0.016  $\chi^2$ /NDF: 4.7/9

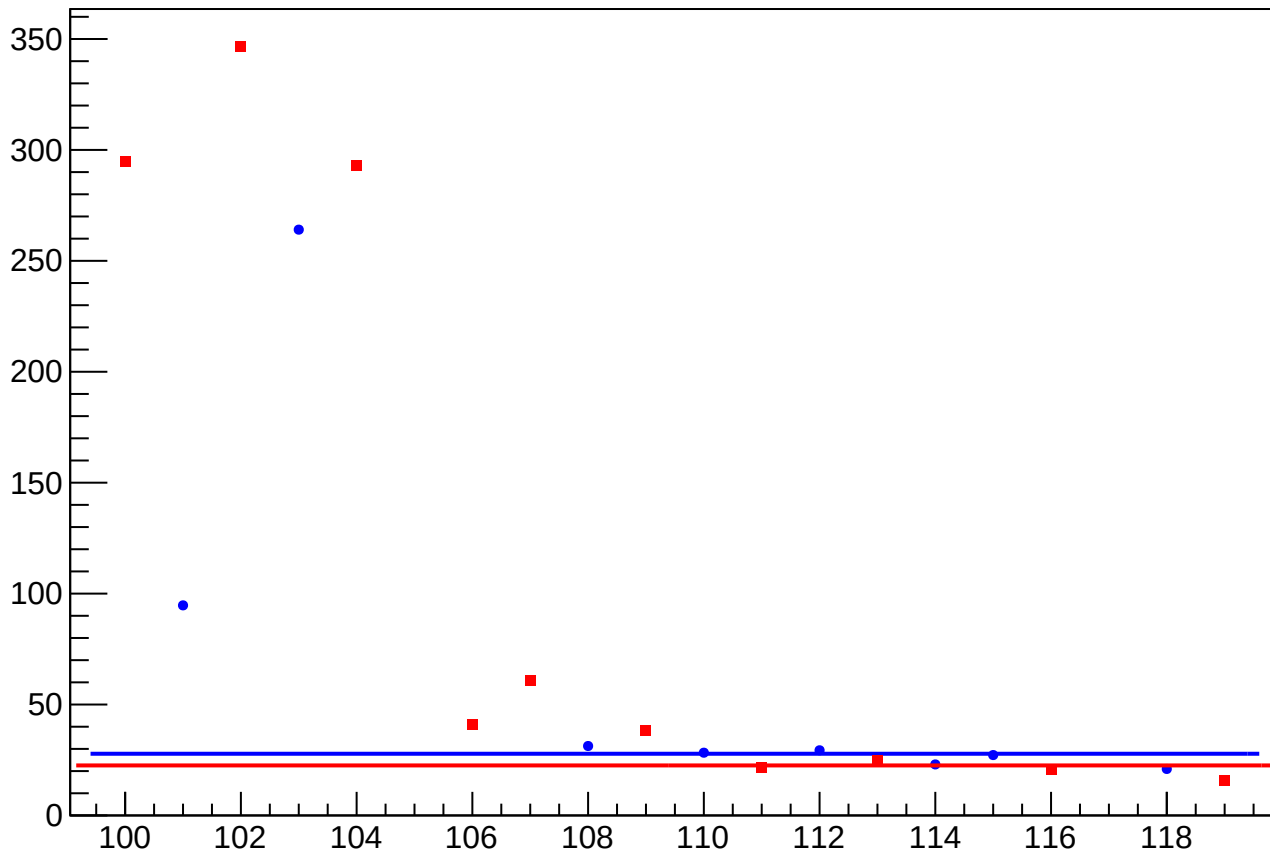
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.012  $\chi^2$ /NDF: 9.8/17

- 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: 27.814+/-0.013  $\chi^2/\text{NDF}$ : 1644624.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.551+/-0.011  $\chi^2/\text{NDF}$ : 2164952.3/9

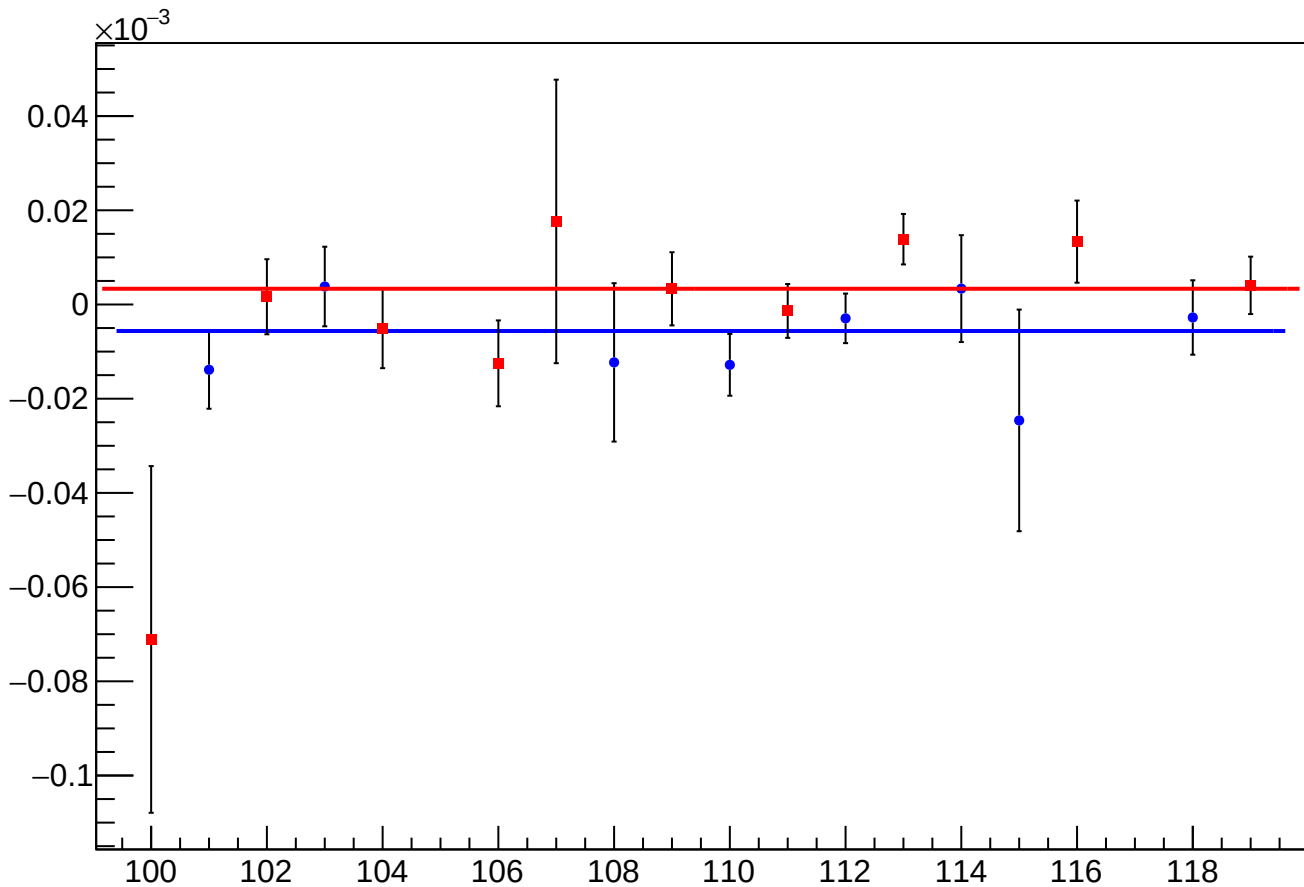
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.701+/-0.008  $\chi^2/\text{NDF}$ : 3903245.5/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 5.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.2/9

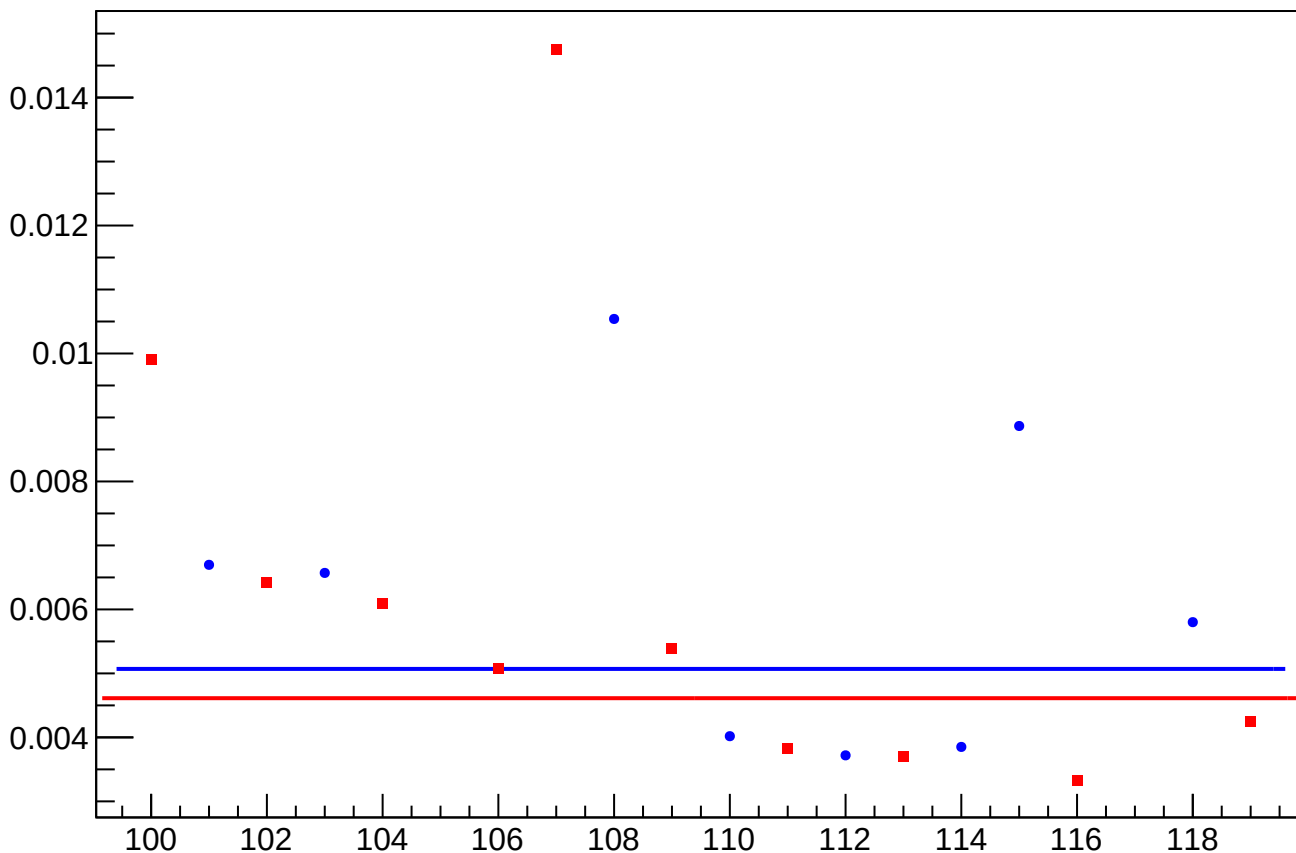
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 25.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 627686.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 605093.6/9

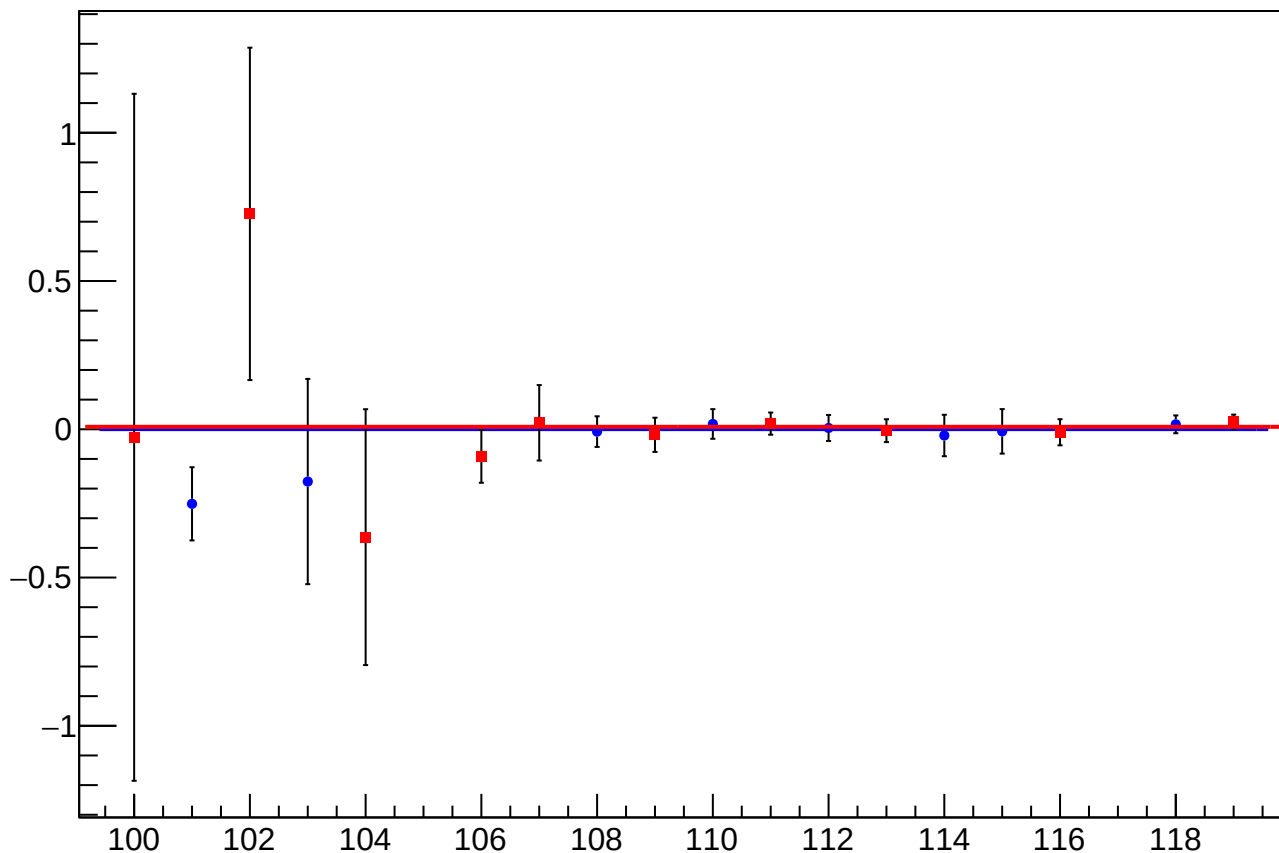
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1261516.1/17

- 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: 0.001 $\pm$ 0.019  $\chi^2$ /NDF: 5.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.008 $\pm$ 0.016  $\chi^2$ /NDF: 4.7/9

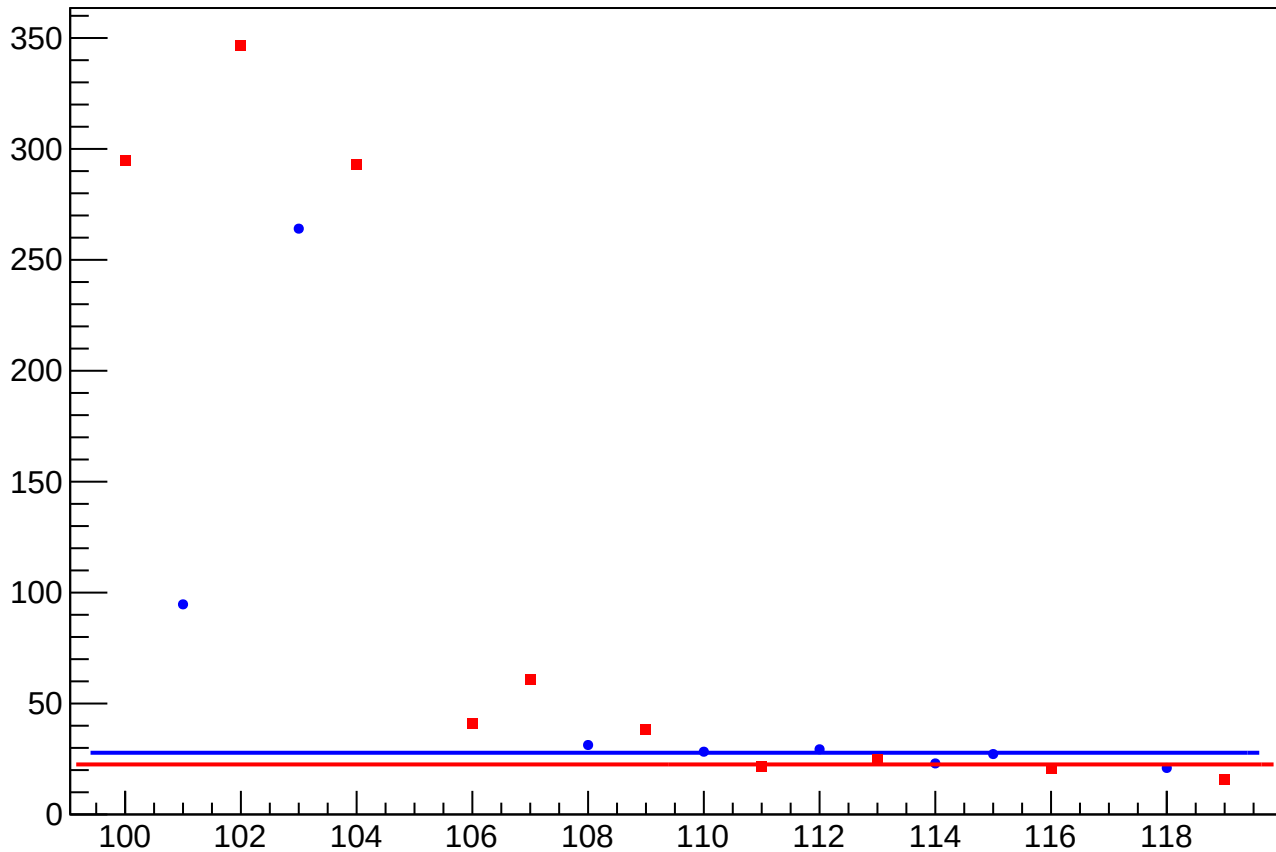
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.012  $\chi^2$ /NDF: 9.8/17

- 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: 27.814+/-0.013  $\chi^2/\text{NDF}$ : 1644645.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.548+/-0.011  $\chi^2/\text{NDF}$ : 2165157.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

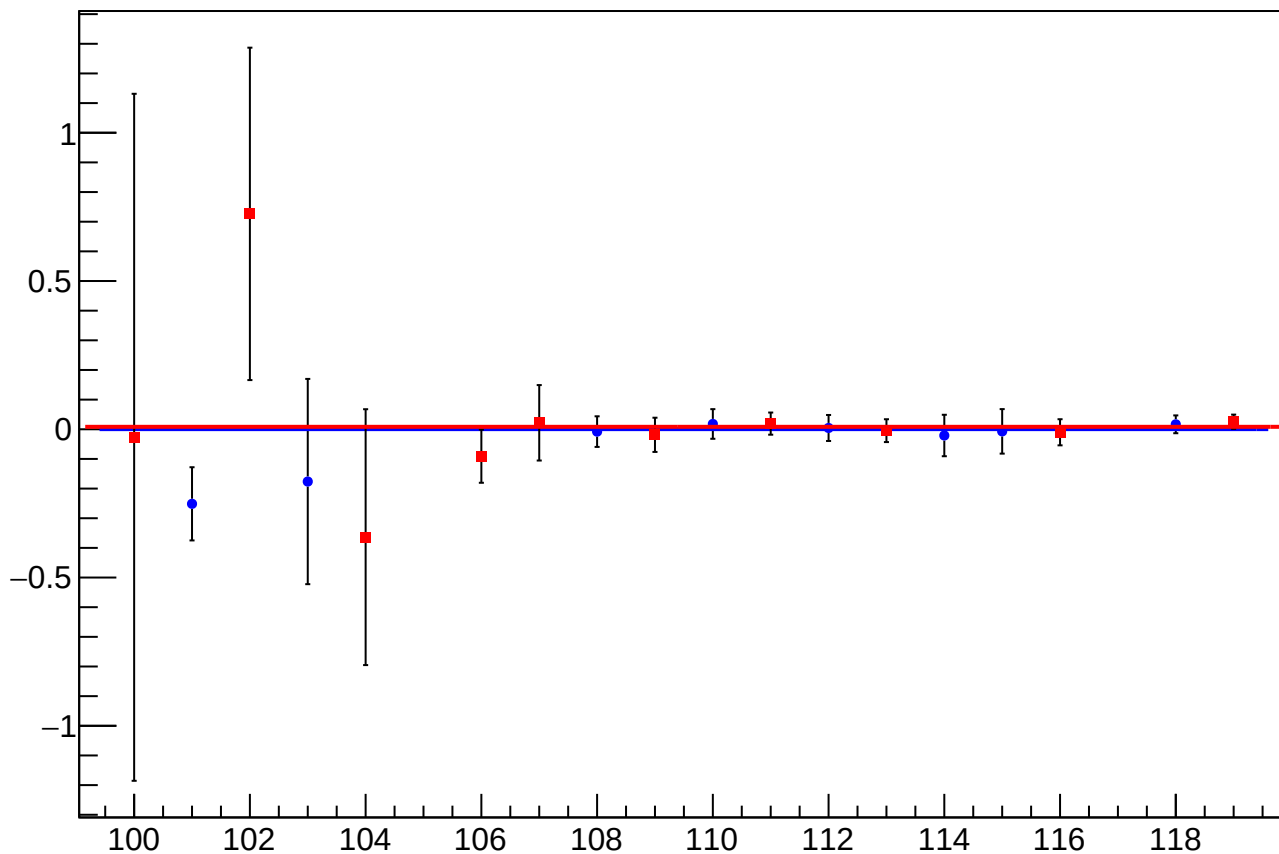
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.699+/-0.008  $\chi^2/\text{NDF}$ : 3903576.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.001 $\pm$ 0.019  $\chi^2$ /NDF: 5.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.008 $\pm$ 0.016  $\chi^2$ /NDF: 4.7/9

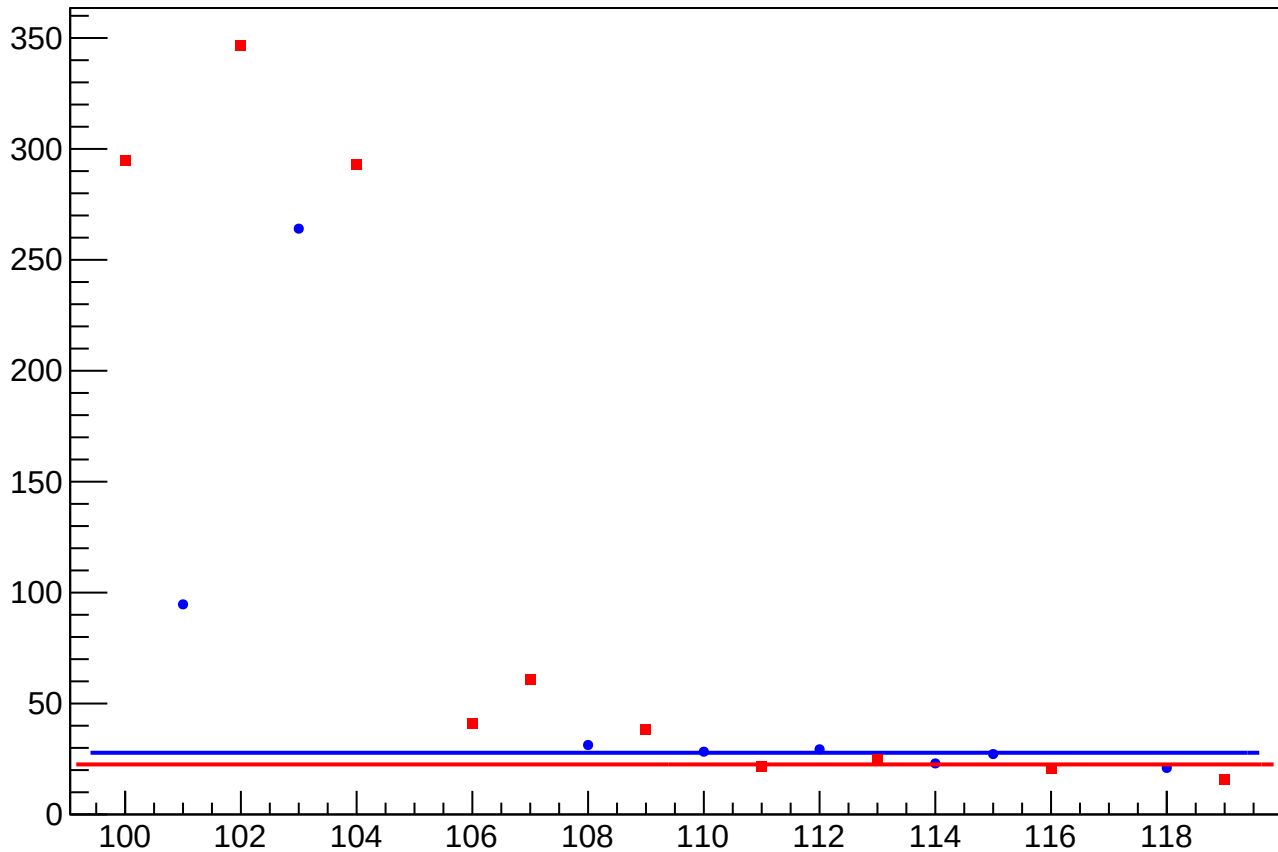
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.012  $\chi^2$ /NDF: 9.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 27.814+/-0.013  $\chi^2/\text{NDF}$ : 1644645.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.548+/-0.011  $\chi^2/\text{NDF}$ : 2165157.9/9

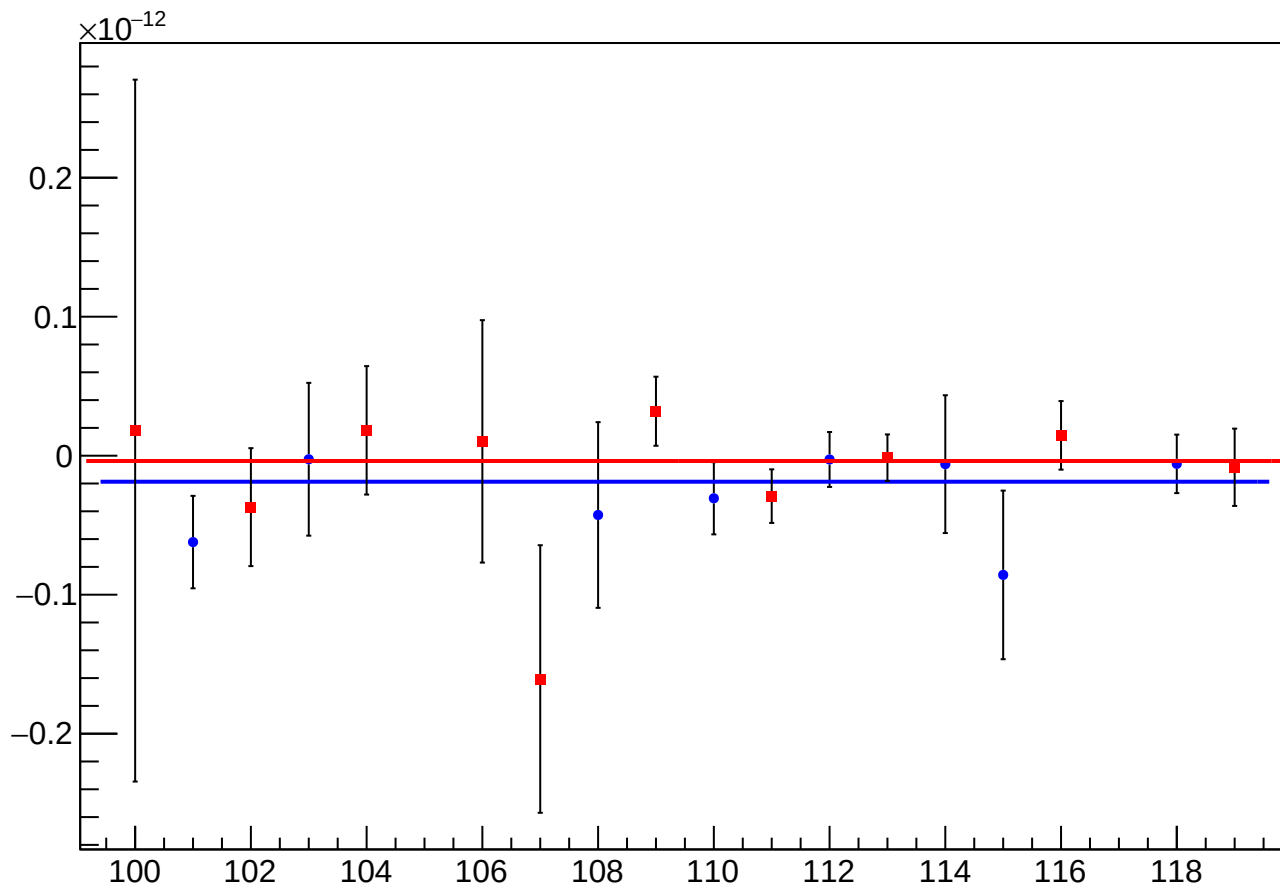
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.699+/-0.008  $\chi^2/\text{NDF}$ : 3903576.0/17

- 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  $\chi^2/\text{NDF}$ : 4.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.9/9

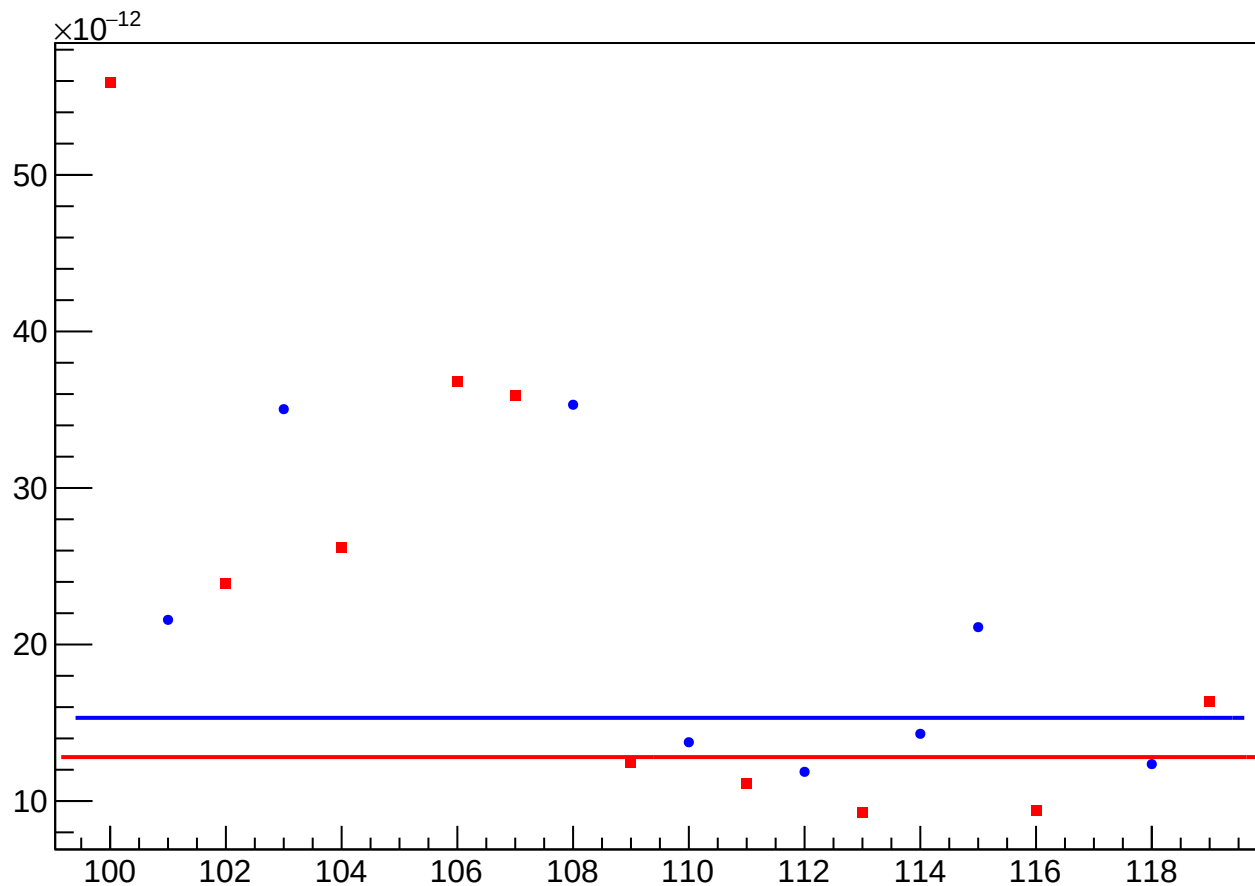
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.5/17

- 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  $\chi^2/\text{NDF}$ : 634401.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 806185.0/9

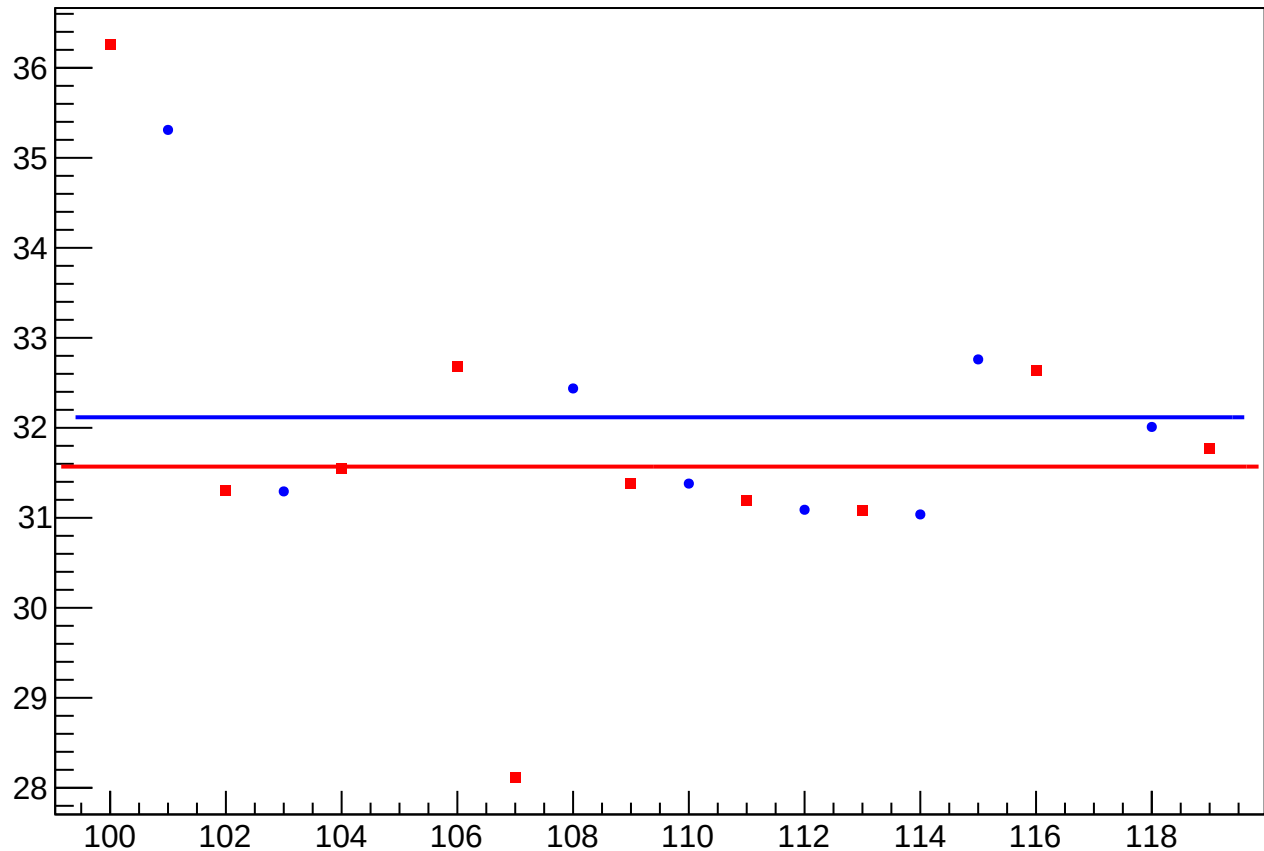
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1503084.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_usl\_mean vs Slug



Right In: 32.117+/-0.000  $\chi^2/\text{NDF}$ : 804883223.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.569+/-0.000  $\chi^2/\text{NDF}$ : 327896939.4/9

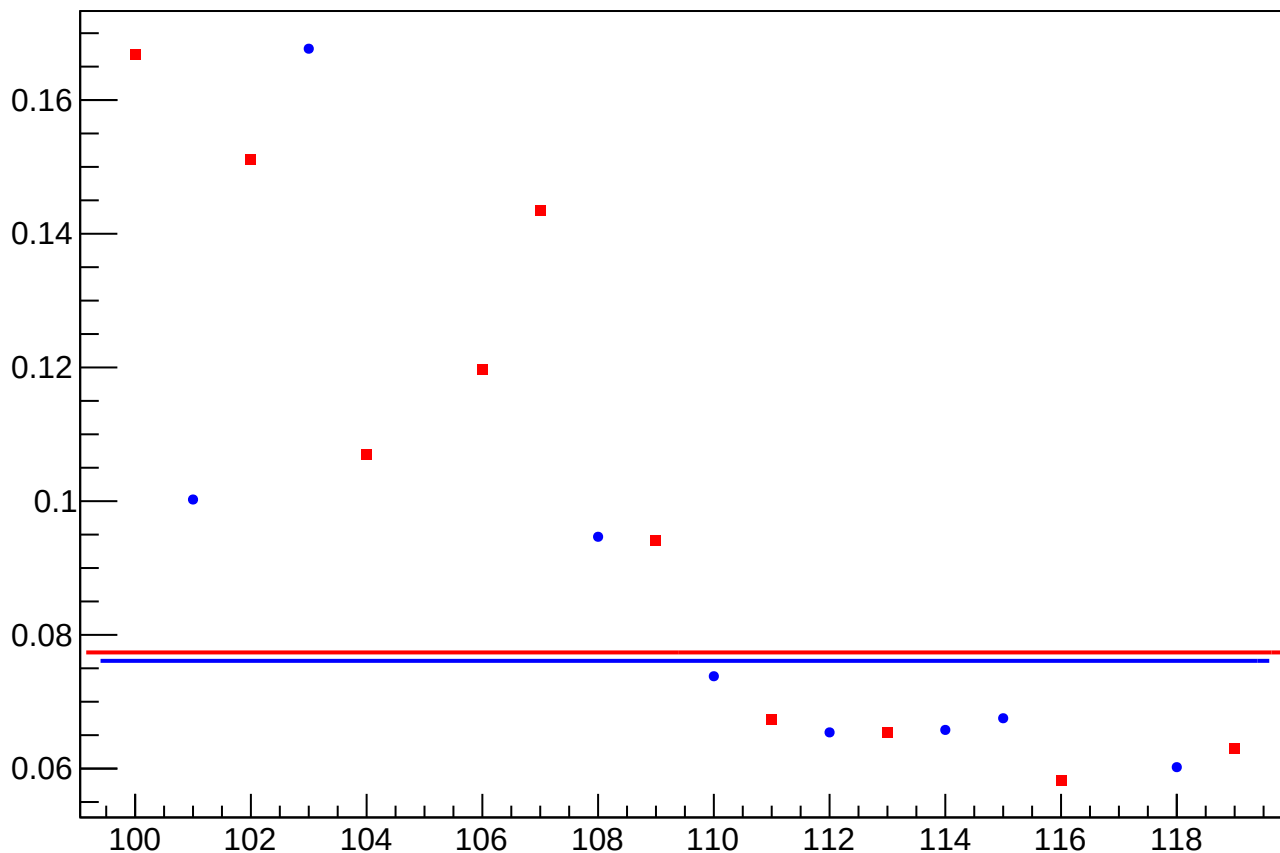
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.822+/-0.000  $\chi^2/\text{NDF}$ : 1210383681.9/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_usl\_rms vs Slug



Right In: 0.076+/-0.000  $\chi^2/\text{NDF}$ : 549918.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.077+/-0.000  $\chi^2/\text{NDF}$ : 728763.2/9

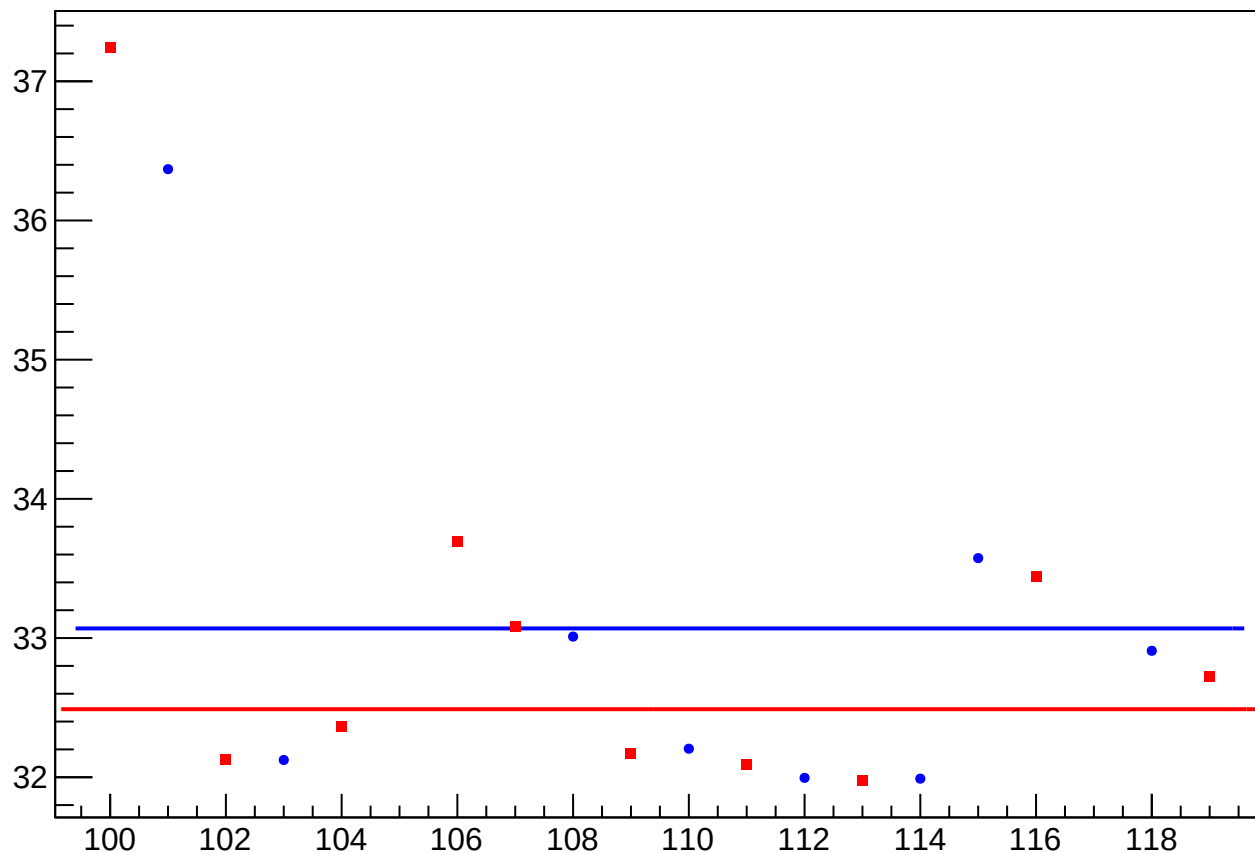
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.077+/-0.000  $\chi^2/\text{NDF}$ : 1279502.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_usr\_mean vs Slug



Right In: 33.069+/-0.000  $\chi^2/\text{NDF}$ : 620234063.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 32.489+/-0.000  $\chi^2/\text{NDF}$ : 134810073.0/9

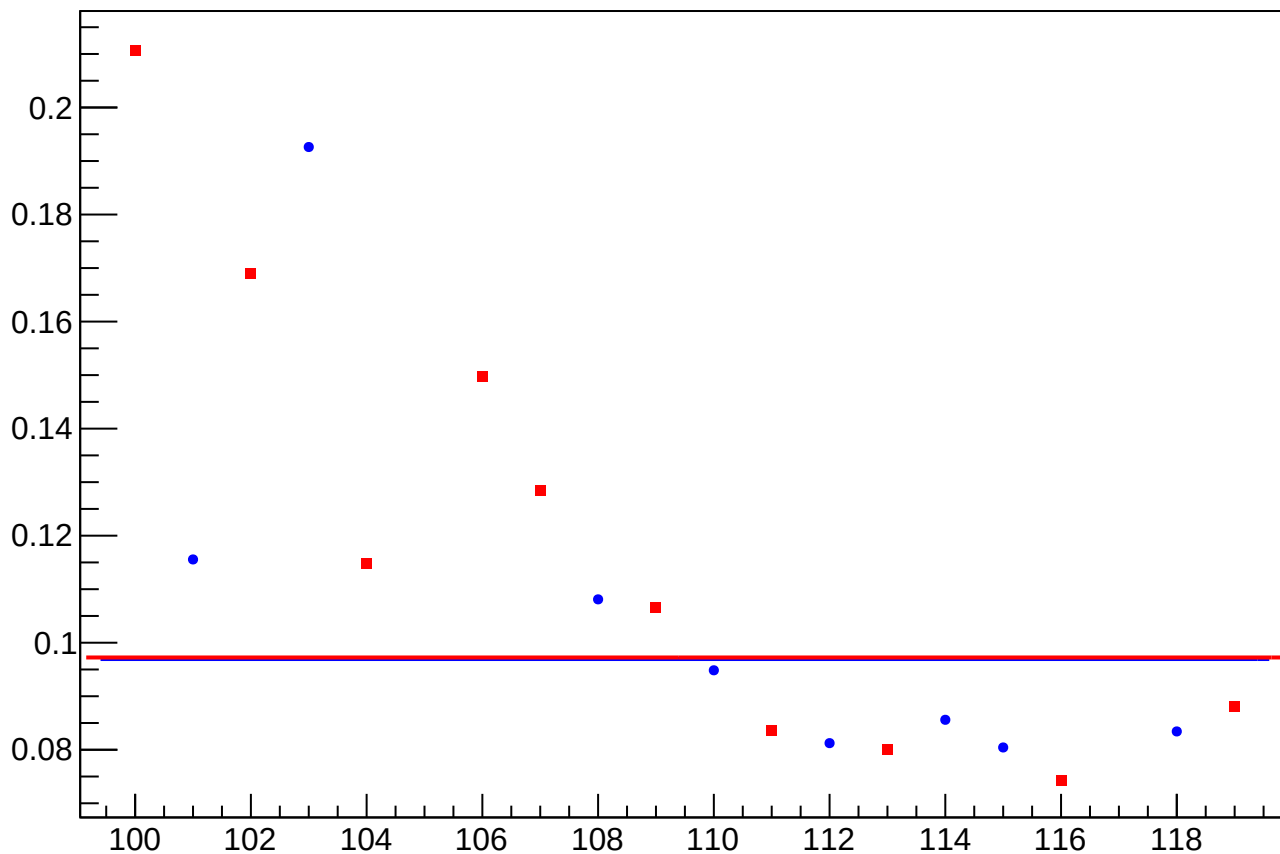
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.752+/-0.000  $\chi^2/\text{NDF}$ : 810383735.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_usr\_rms vs Slug



Right In: 0.097 $\pm$ 0.000  $\chi^2$ /NDF: 402105.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.097 $\pm$ 0.000  $\chi^2$ /NDF: 486929.2/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

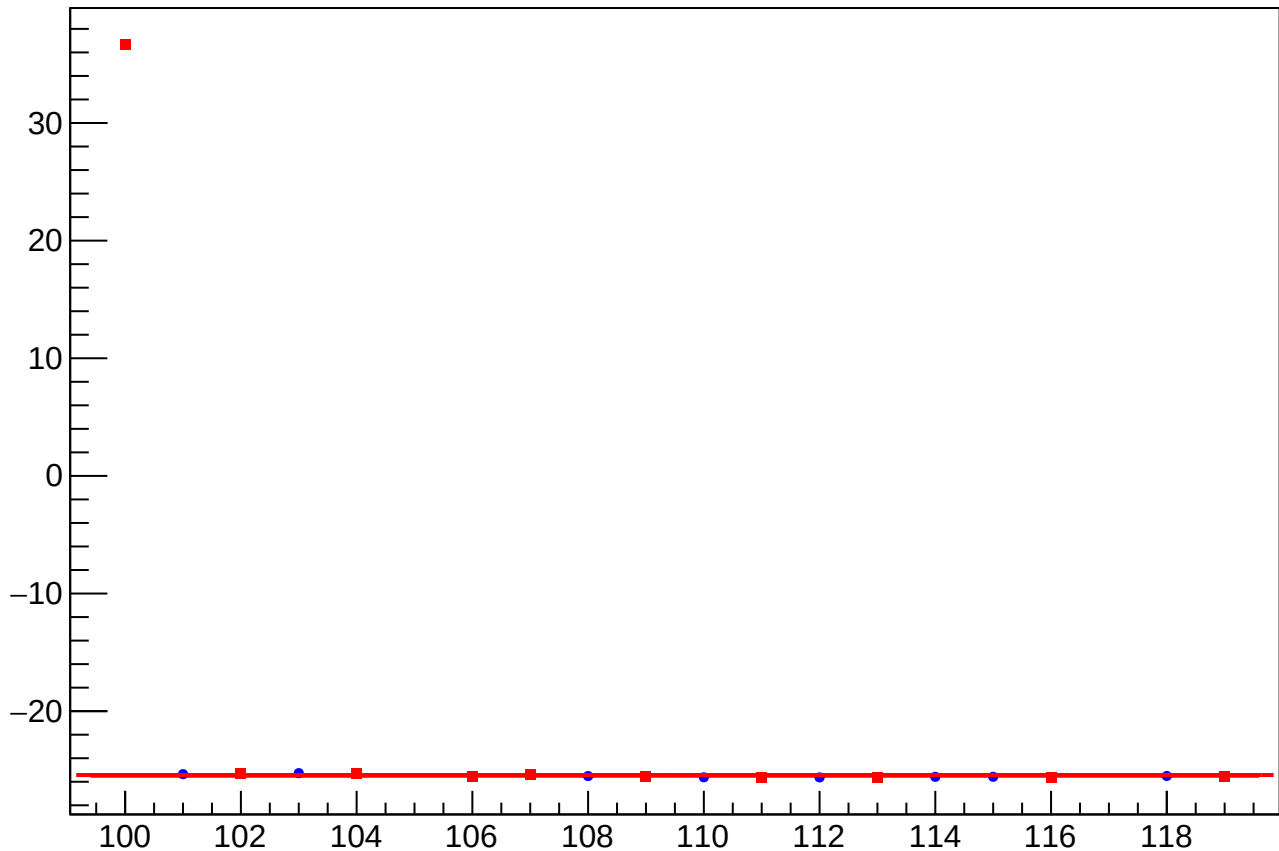
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.097 $\pm$ 0.000  $\chi^2$ /NDF: 889062.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



yield\_dsl\_mean vs Slug



Right In: -25.476+/-0.000  $\chi^2/\text{NDF}$ : 35789820.1/7

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

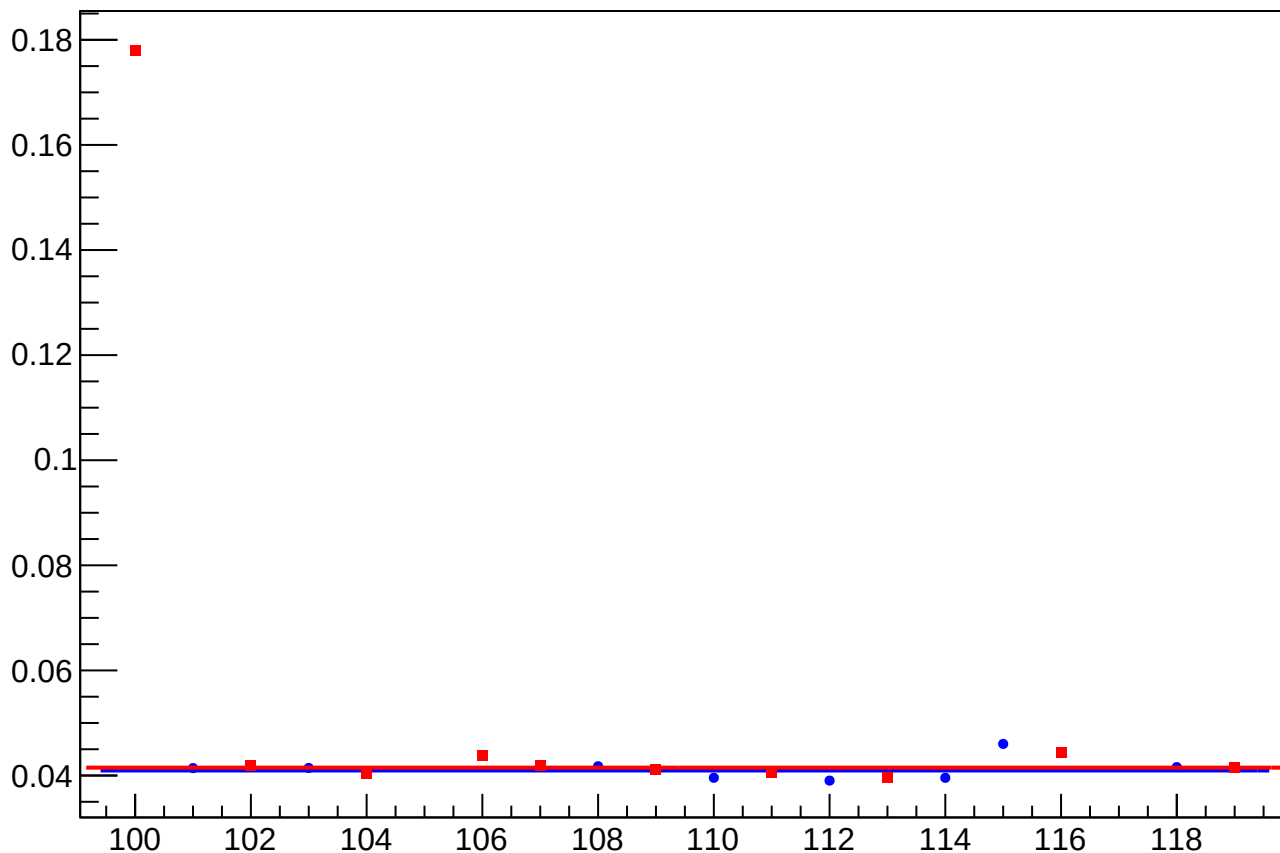
Right Out: -25.427+/-0.000  $\chi^2/\text{NDF}$ : 8817470742.3/9

All: -25.449+/-0.000  $\chi^2/\text{NDF}$ : 8855843101.8/17

- 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\_dsl\_rms vs Slug



Right In: 0.041 $\pm$ 0.000  $\chi^2$ /NDF: 7886.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.041 $\pm$ 0.000  $\chi^2$ /NDF: 92011.0/9

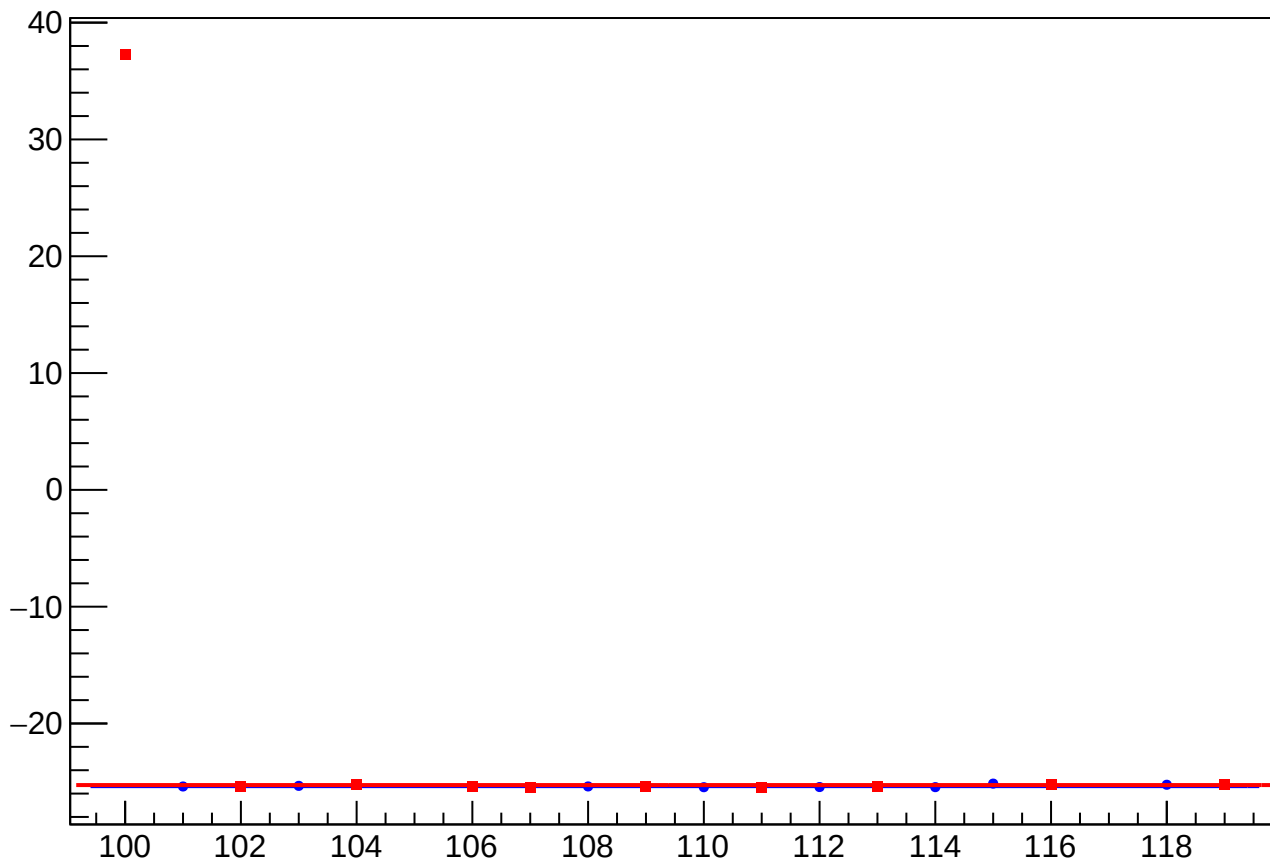
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.041 $\pm$ 0.000  $\chi^2$ /NDF: 100524.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

yield\_dsr\_mean vs Slug



Right In: -25.363+/-0.000  $\chi^2/\text{NDF}$ : 6276347.4/7

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

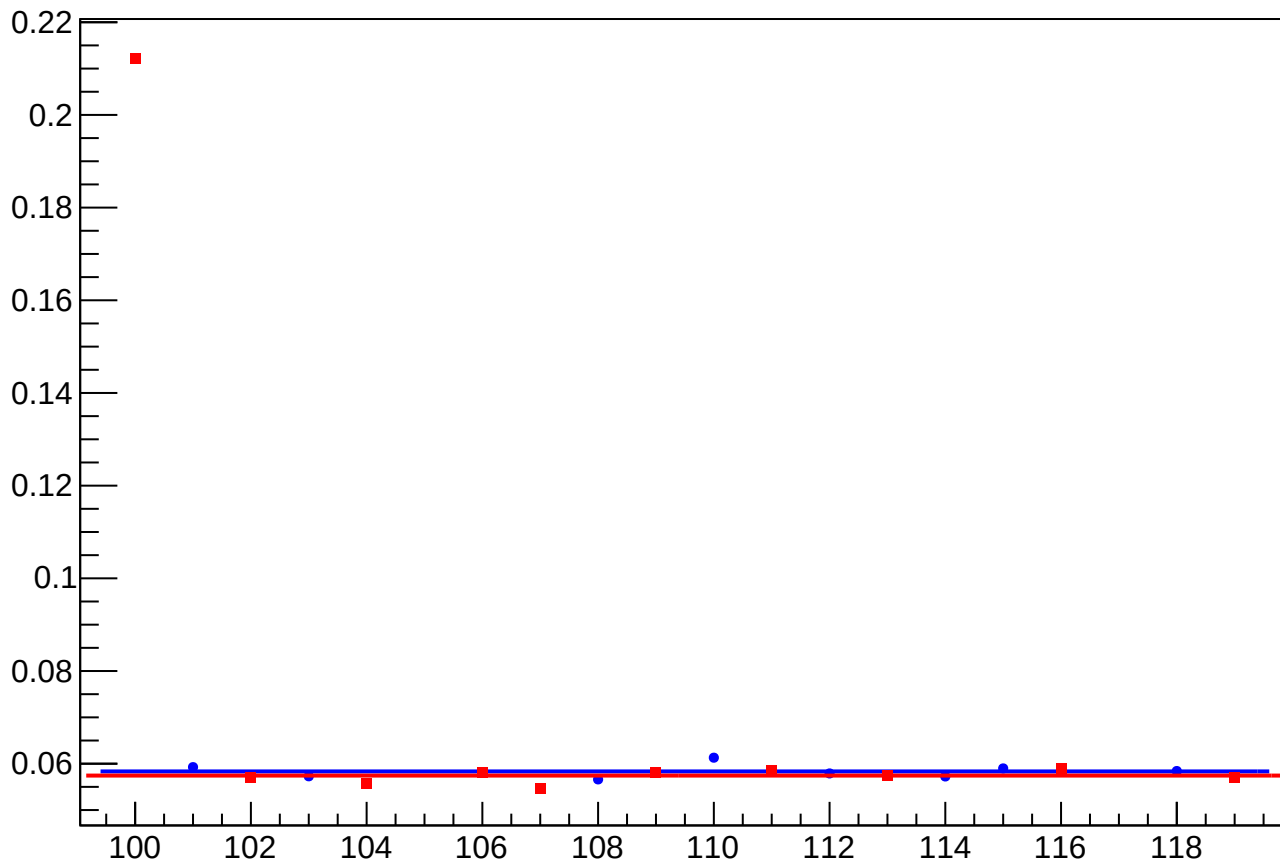
Right Out: -25.271+/-0.000  $\chi^2/\text{NDF}$ : 6302625189.9/9

All: -25.312+/-0.000  $\chi^2/\text{NDF}$ : 6313363779.2/17

- 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\_dsr\_rms vs Slug



Right In: 0.058+/-0.000  $\chi^2/\text{NDF}$ : 3268.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.057+/-0.000  $\chi^2/\text{NDF}$ : 80087.4/9

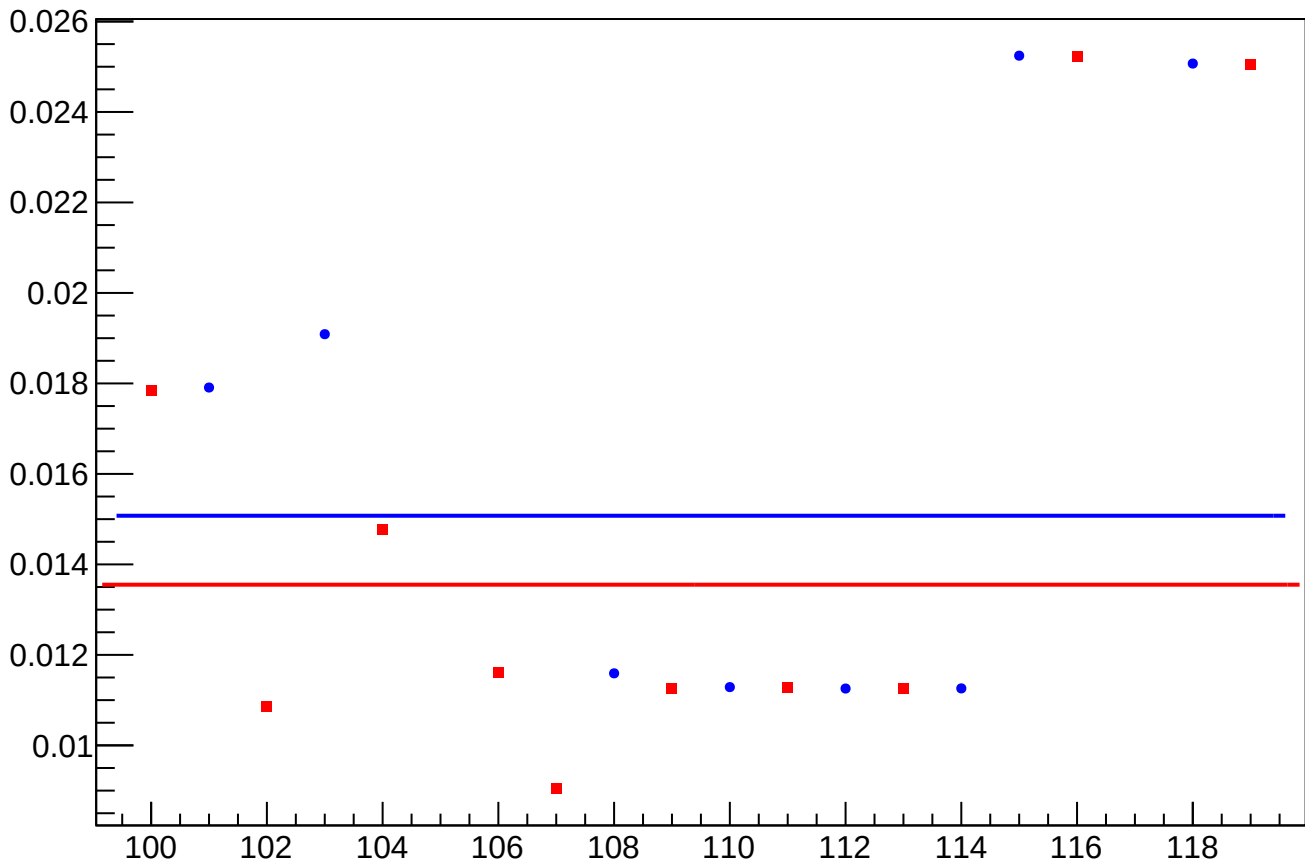
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.058+/-0.000  $\chi^2/\text{NDF}$ : 84206.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_atl1\_mean vs Slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 20876724562.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 25026702005.4/9

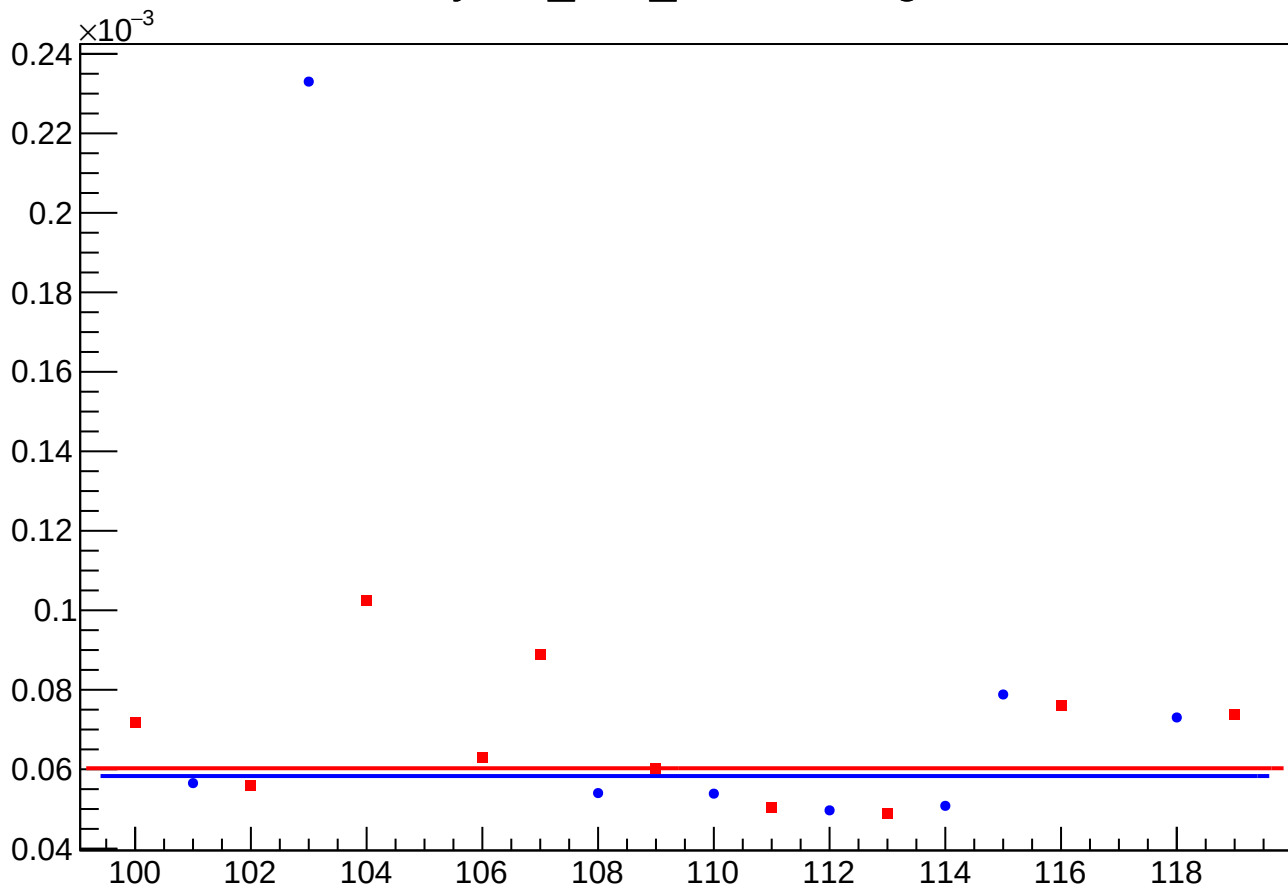
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 46935925997.1/1

- 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: 653234.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 312486.1/9

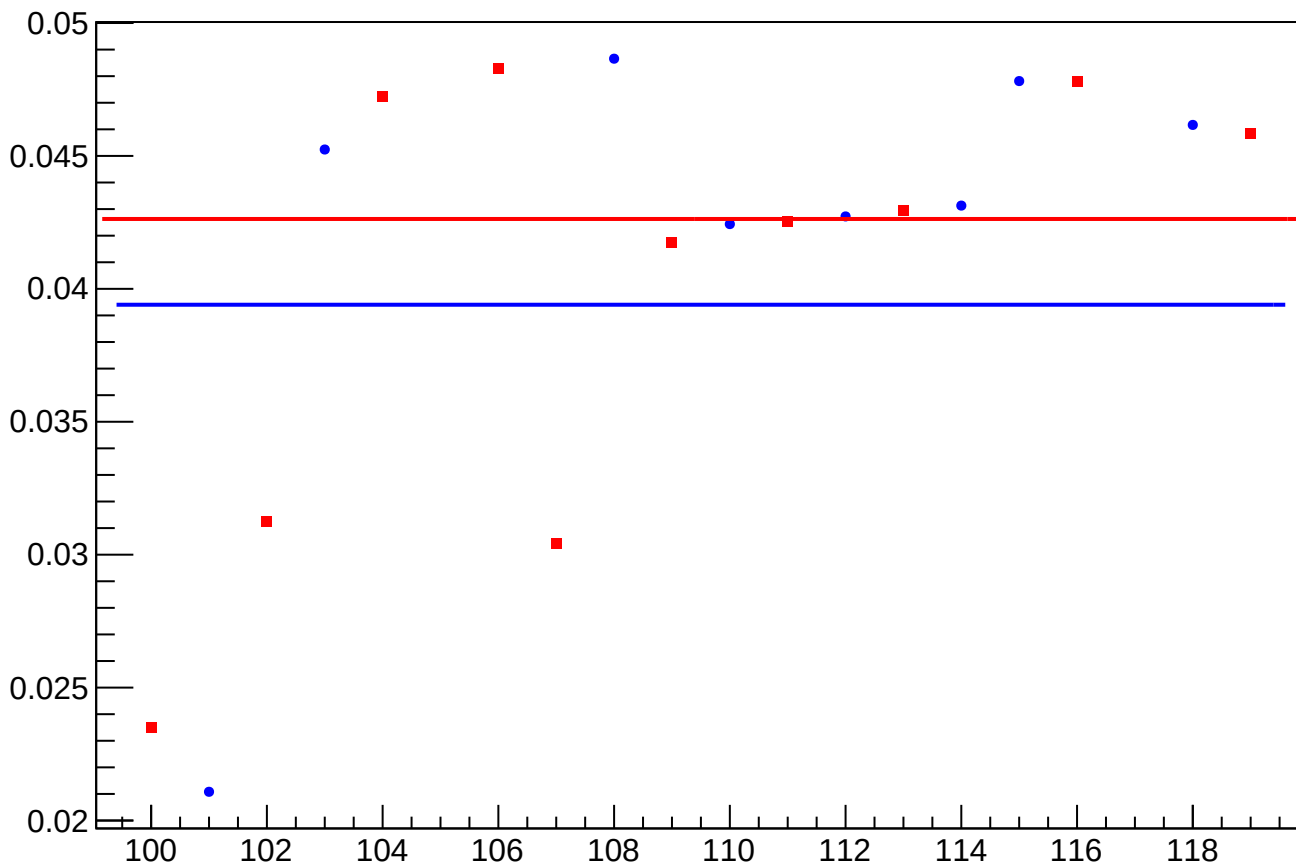
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 969141.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_atl2\_mean vs Slug



Right In: 0.039+/-0.000  $\chi^2/\text{NDF}$ : 2280757851.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.043+/-0.000  $\chi^2/\text{NDF}$ : 756874066.5/9

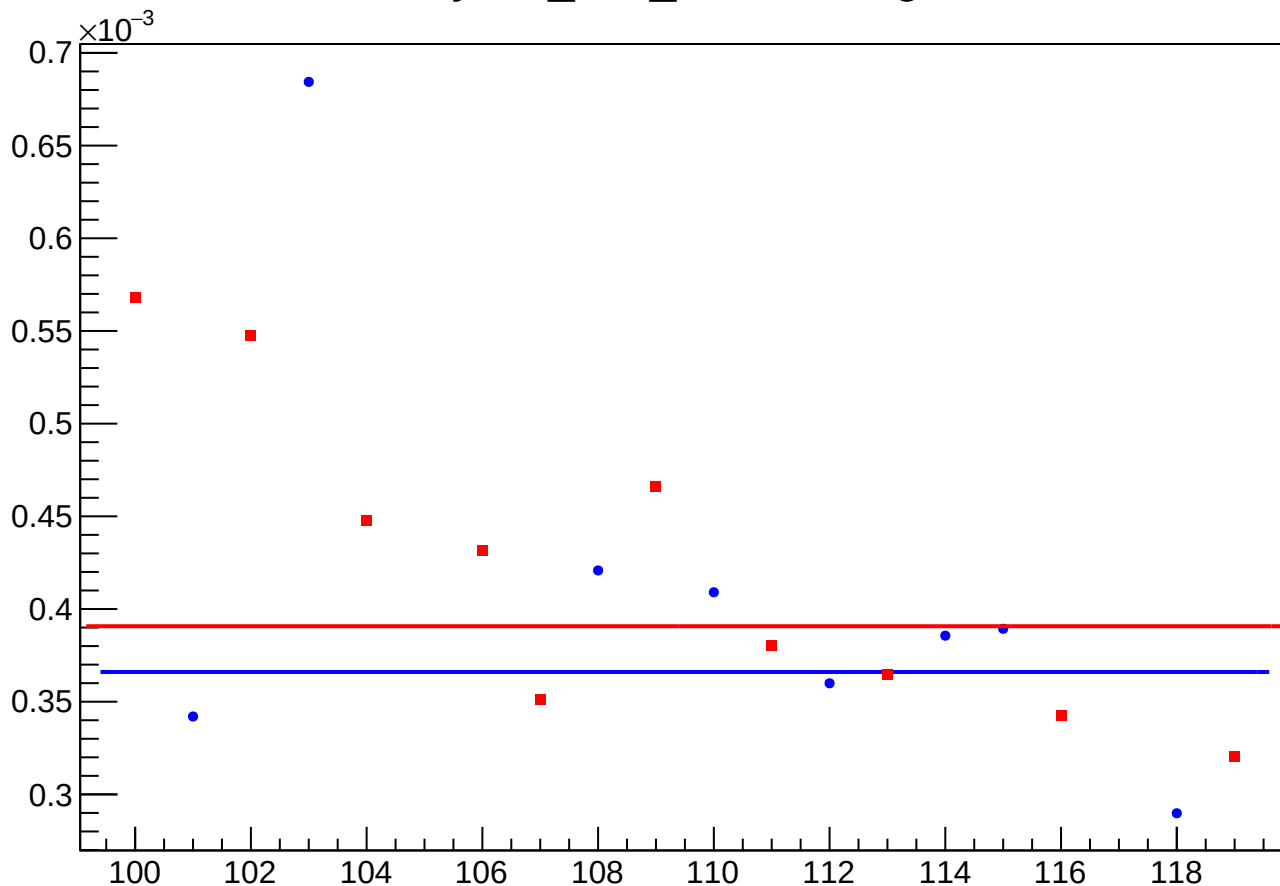
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.041+/-0.000  $\chi^2/\text{NDF}$ : 3152281454.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_atl2\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 337883.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 217672.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

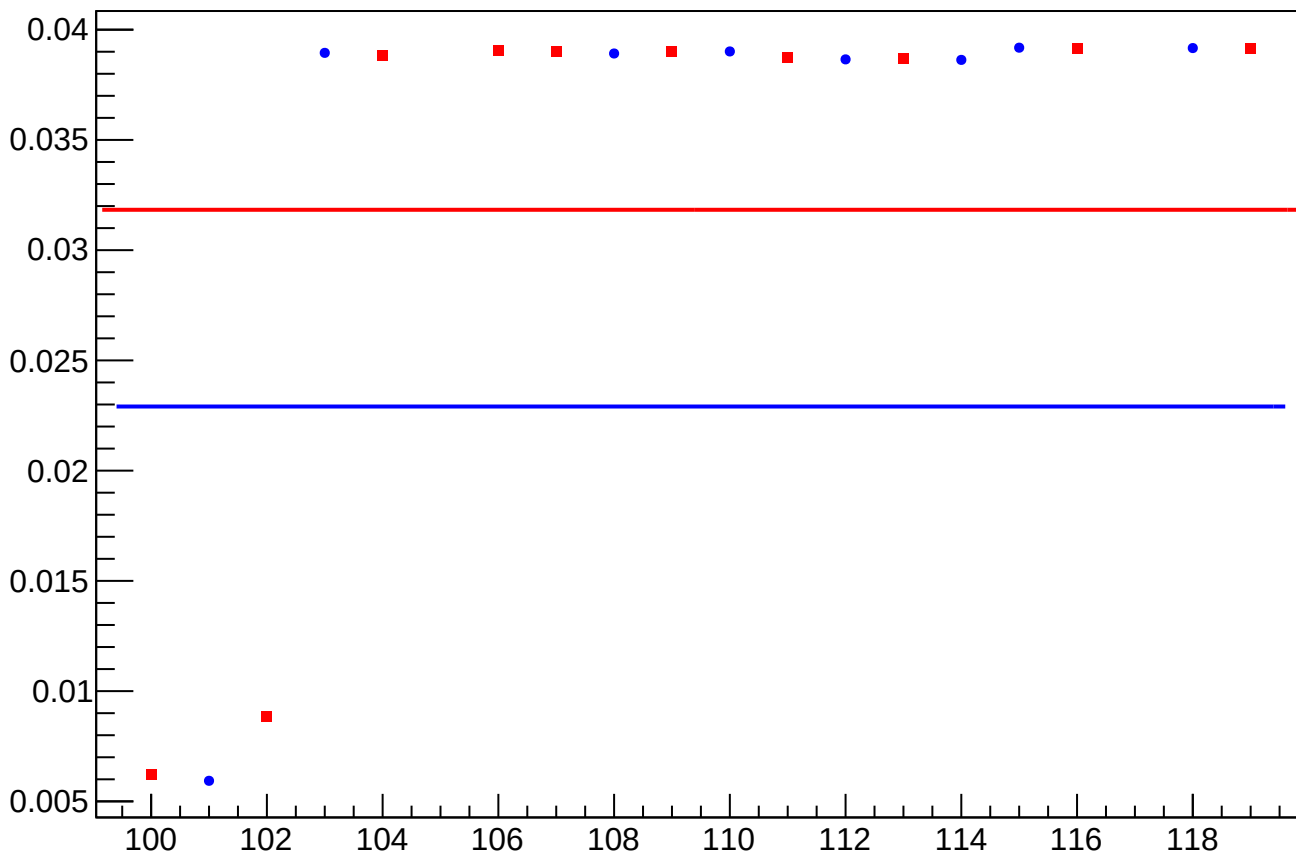
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 568980.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_atr1\_mean vs Slug



Right In: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 76614979080.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 42087560241.0/9

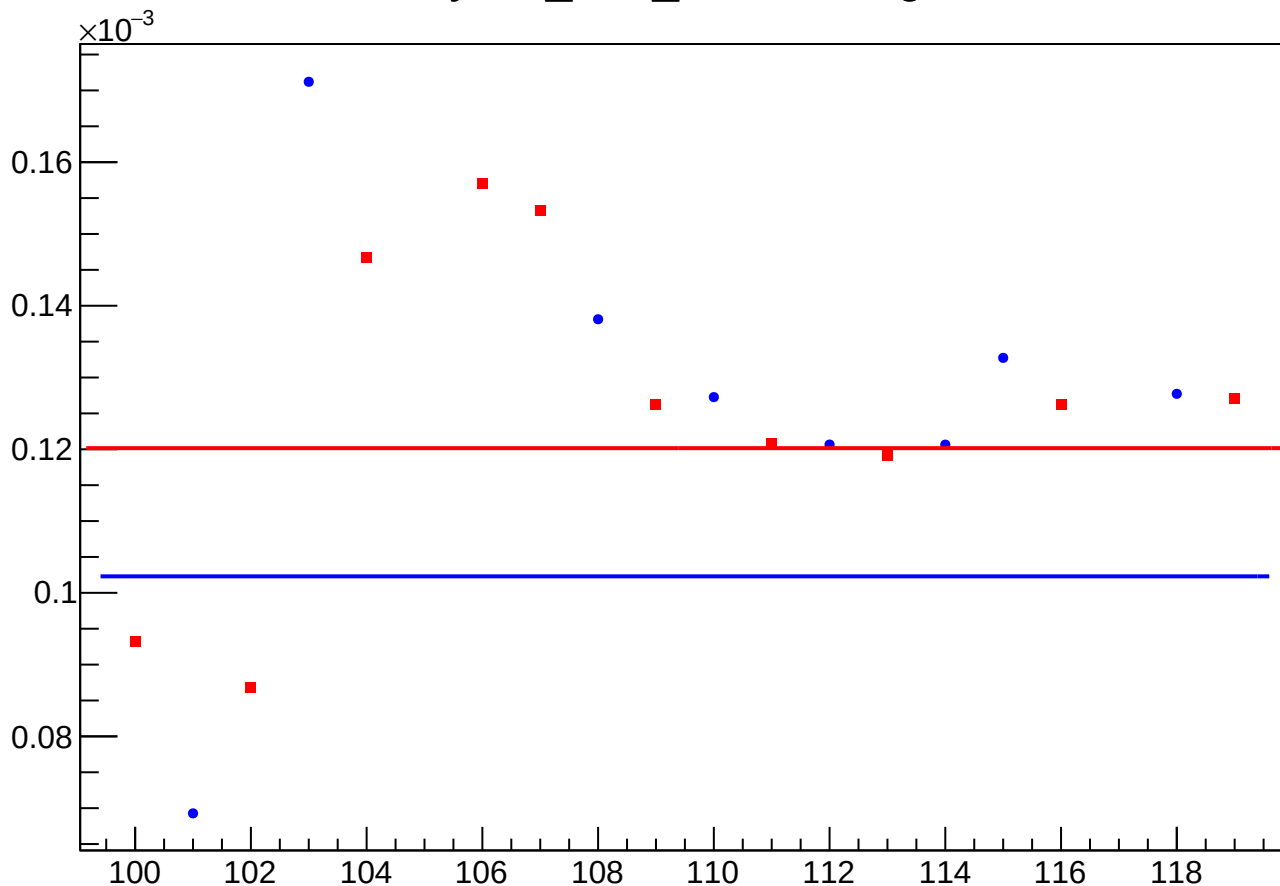
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 129325580252.1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_atr1\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 656815.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 219002.8/9

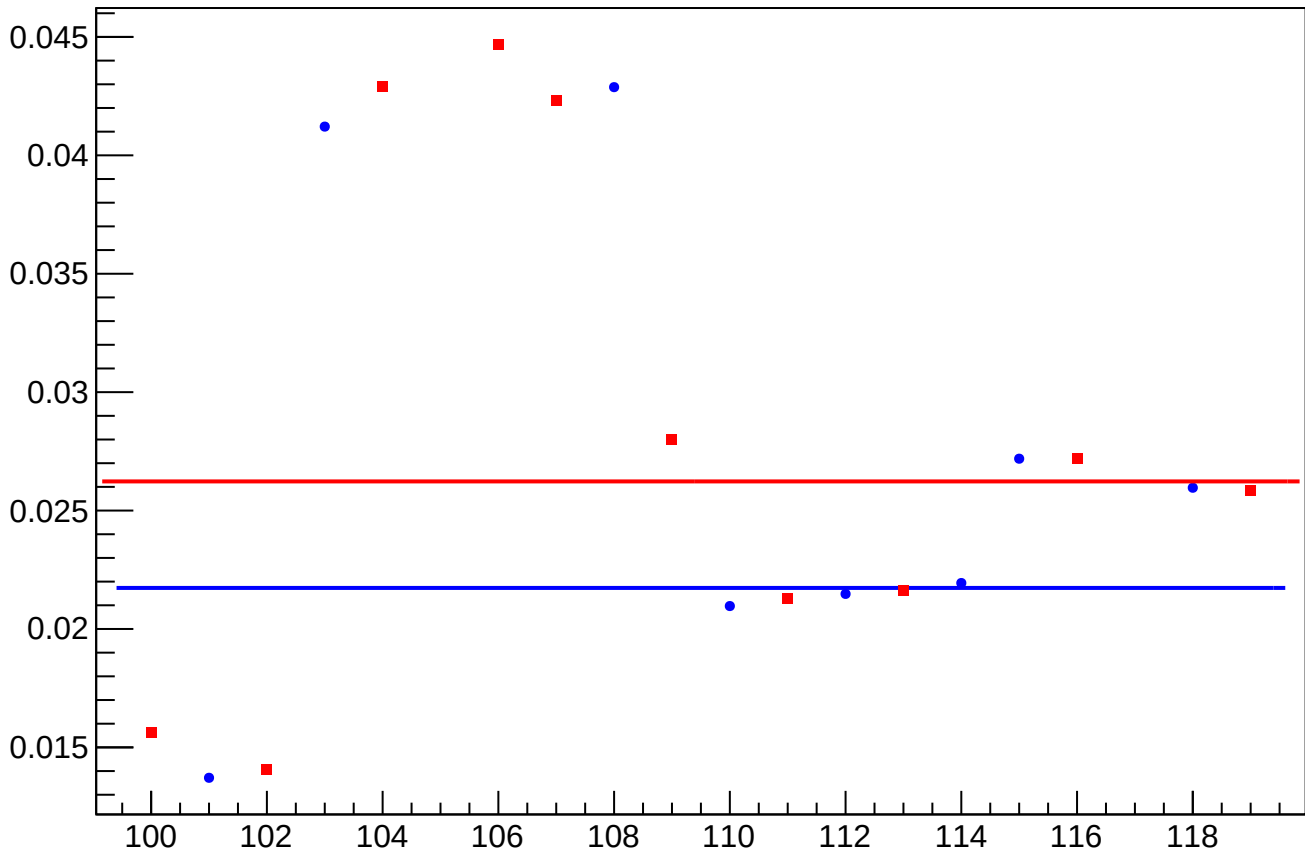
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 960947.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_atr2\_mean vs Slug



Right In: 0.022+/-0.000  $\chi^2/\text{NDF}$ : 3257574939.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 3227125484.2/9

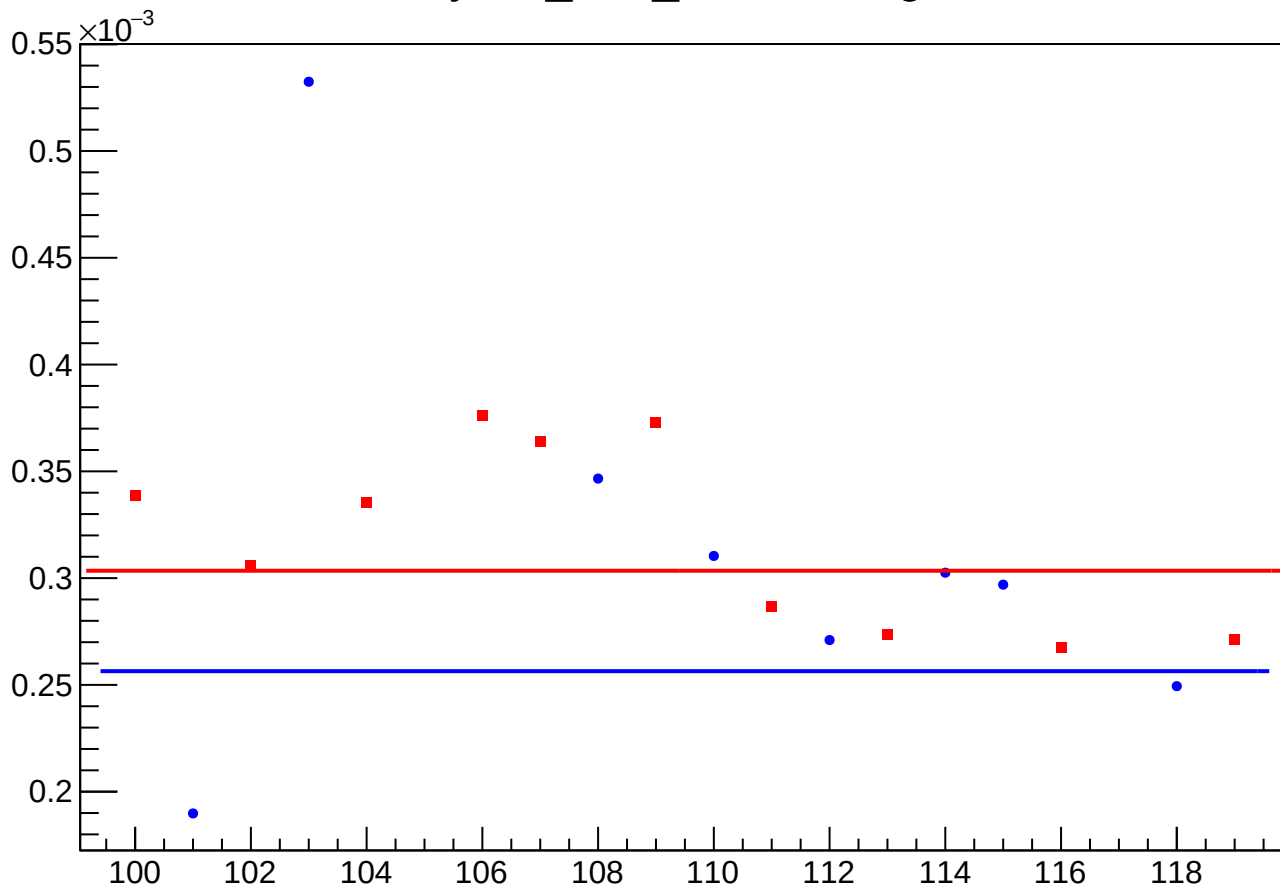
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 6889900954.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_atr2\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 525234.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 109650.7/9

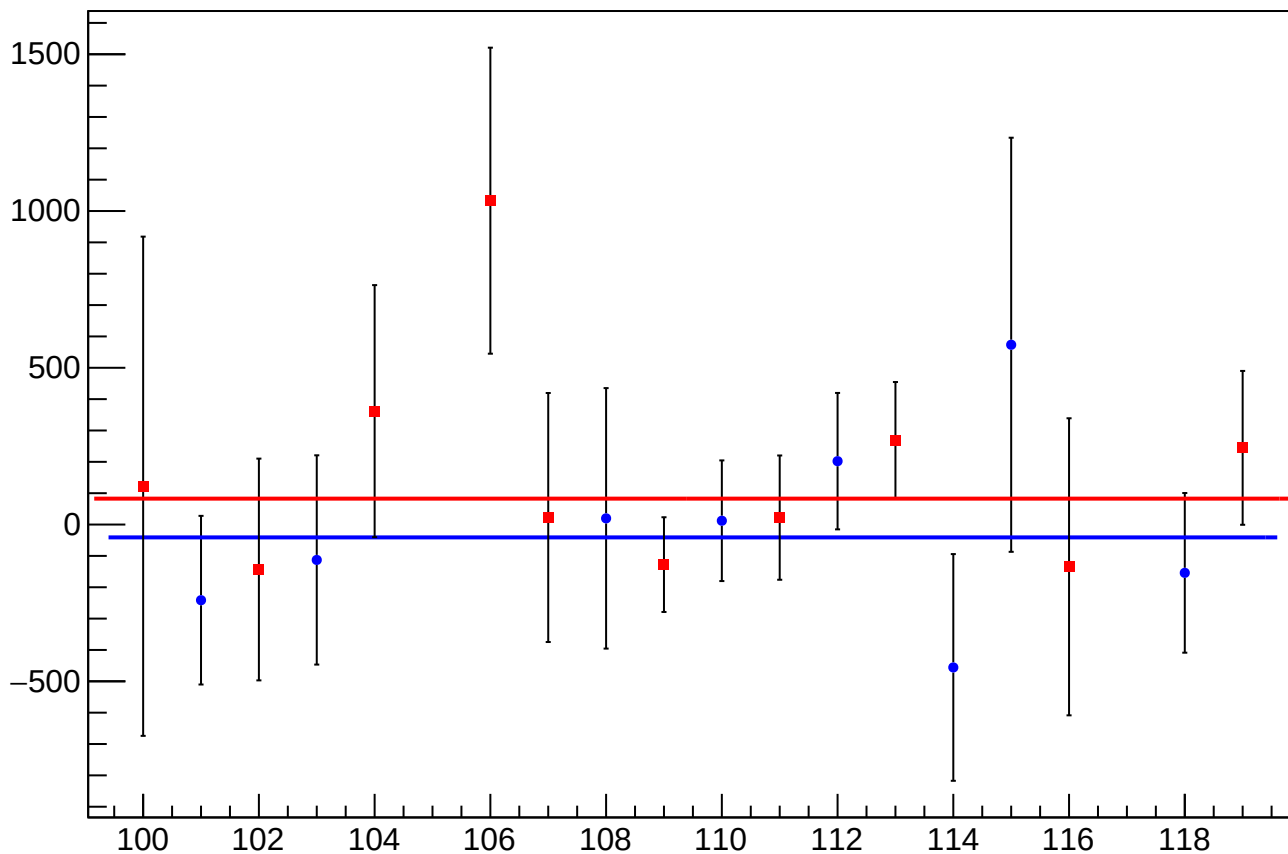
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 723452.5/17

- 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: -40.965+/-98.969  $\chi^2/\text{NDF}$ : 4.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 82.648+/-82.811  $\chi^2/\text{NDF}$ : 8.4/9

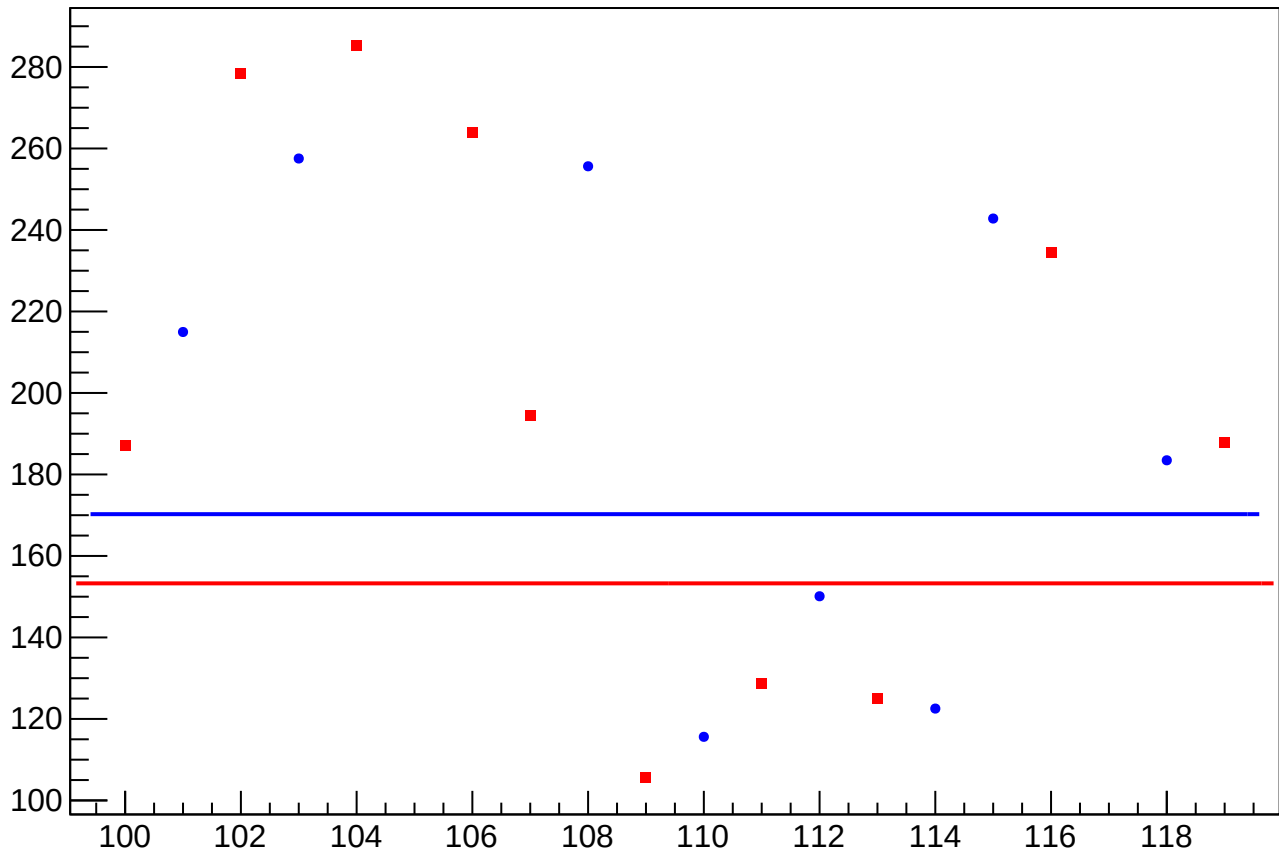
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.743+/-63.511  $\chi^2/\text{NDF}$ : 13.7/17

- 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: 170.254 $\pm$ 0.070  $\chi^2$ /NDF: 519334.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 153.271 $\pm$ 0.059  $\chi^2$ /NDF: 968431.4/9

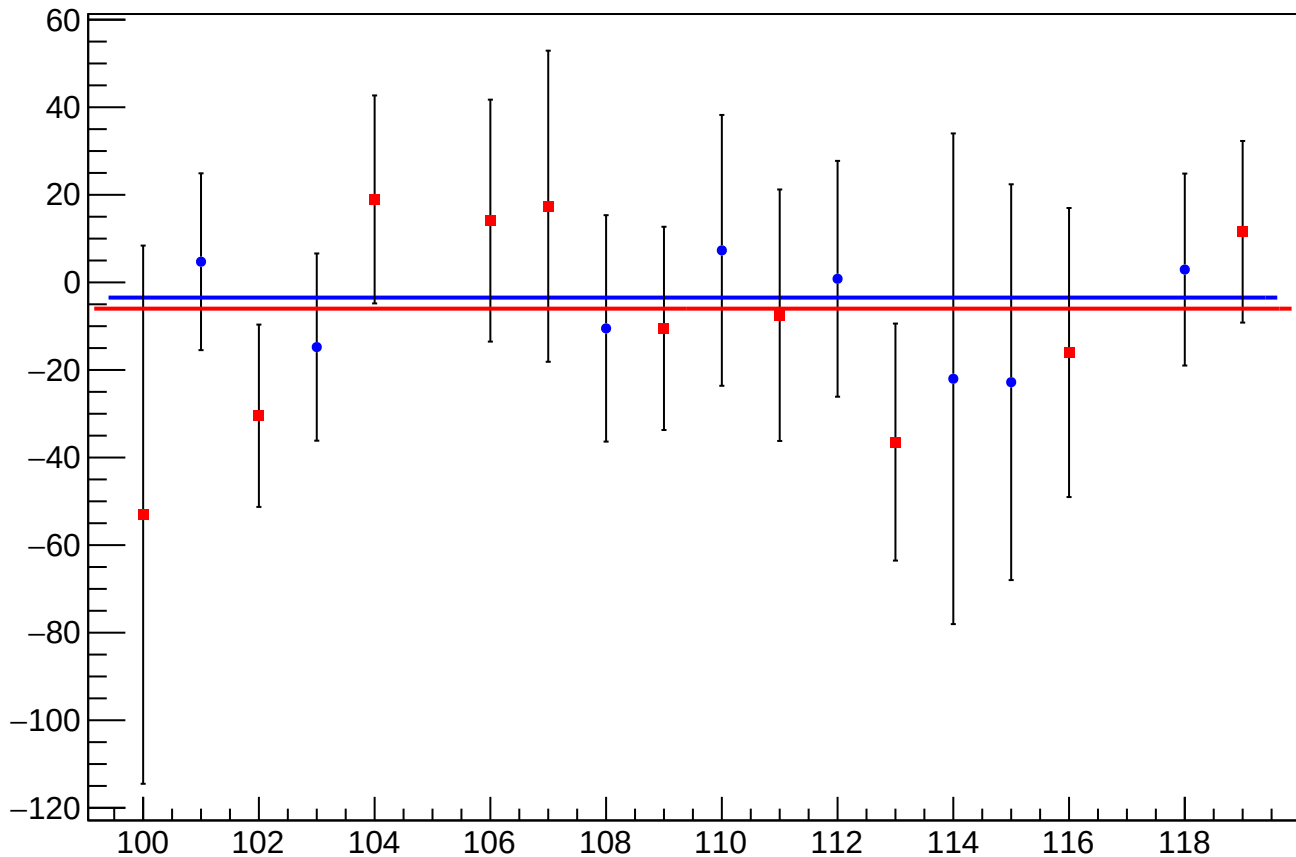
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 160.265 $\pm$ 0.045  $\chi^2$ /NDF: 1522405.7/17

- 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: -3.470+/-9.345  $\chi^2/\text{NDF}$ : 1.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.993+/-8.414  $\chi^2/\text{NDF}$ : 6.1/9

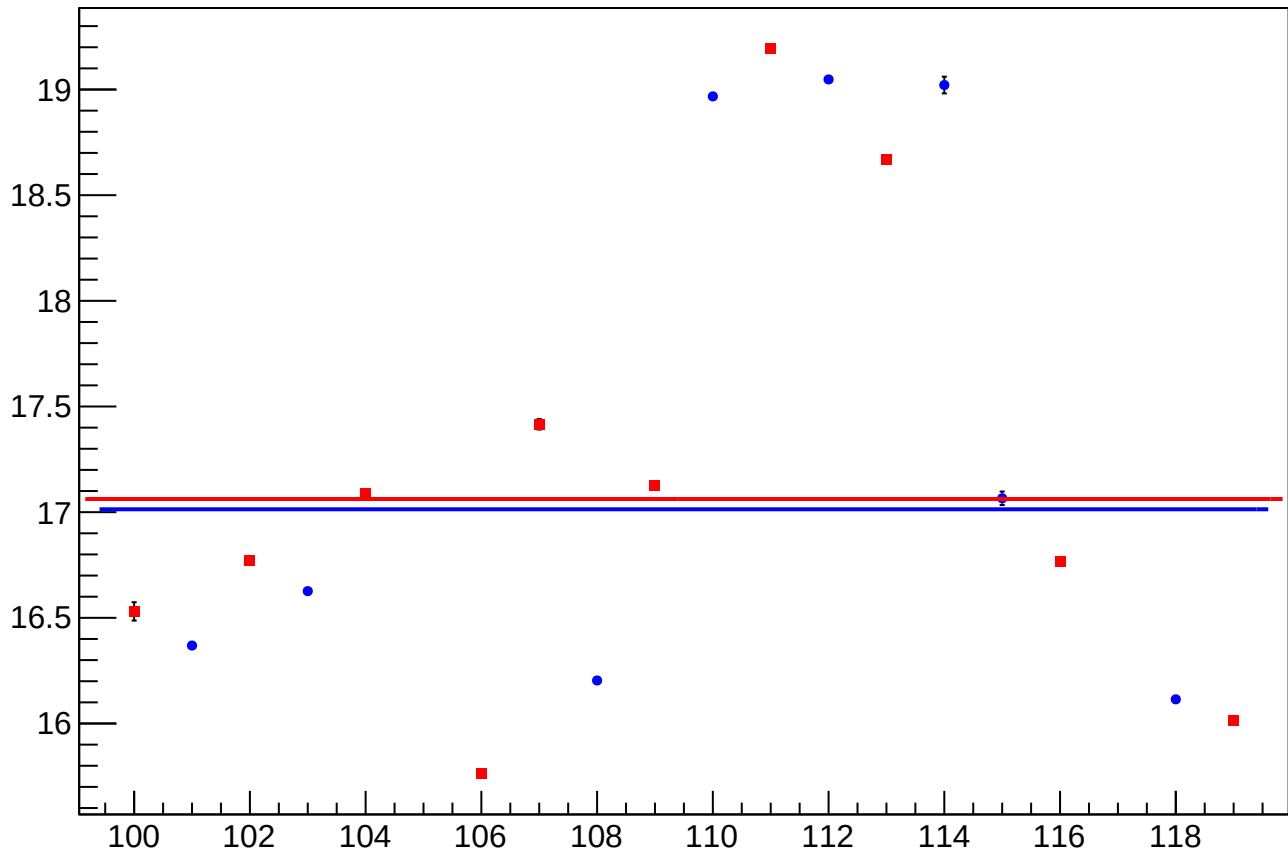
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.864+/-6.253  $\chi^2/\text{NDF}$ : 7.2/17

- 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: 17.014+/-0.007  $\chi^2/\text{NDF}$ : 29987.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.062+/-0.006  $\chi^2/\text{NDF}$ : 28501.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

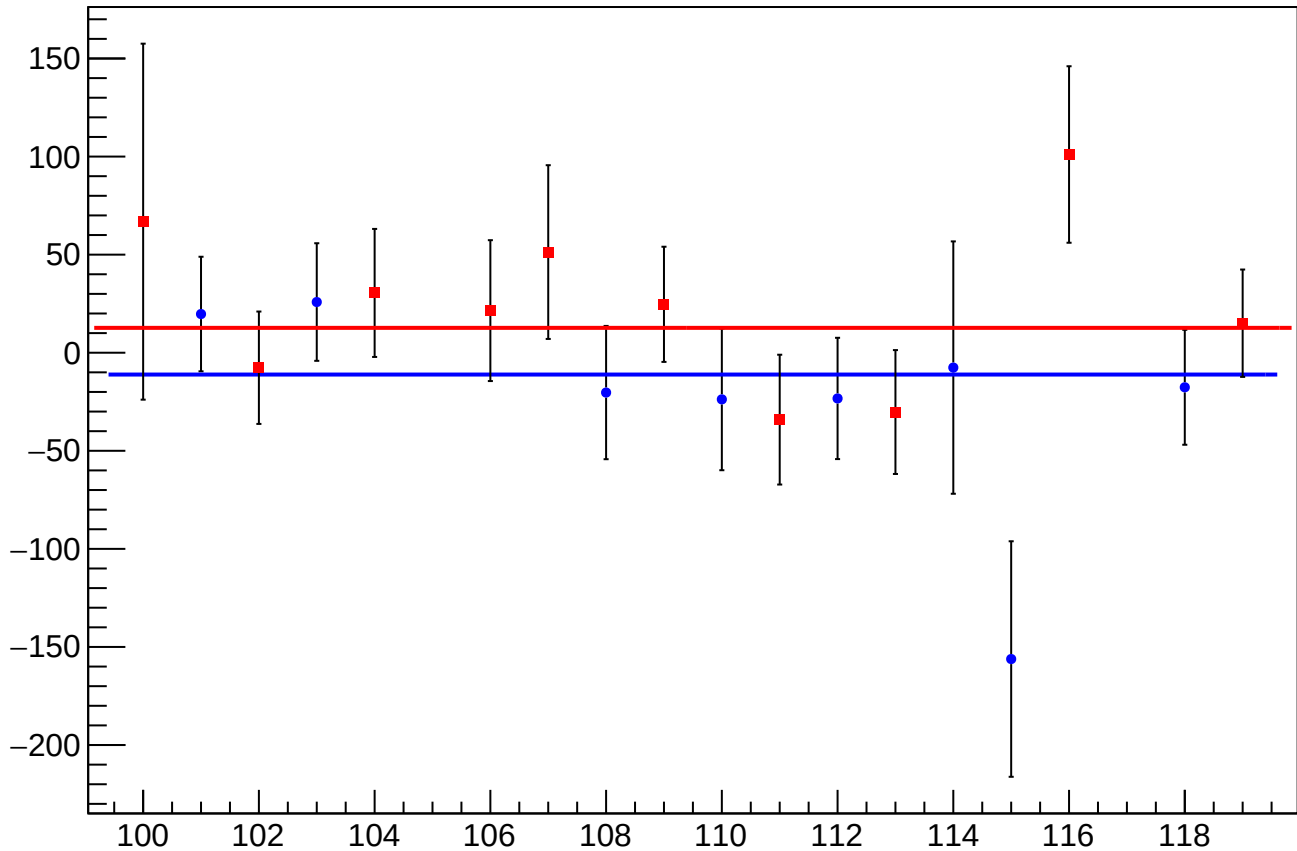
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.041+/-0.004  $\chi^2/\text{NDF}$ : 58518.6/17

- 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: -11.128+/-12.264  $\chi^2/\text{NDF}$ : 8.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12.678+/-10.866  $\chi^2/\text{NDF}$ : 9.9/9

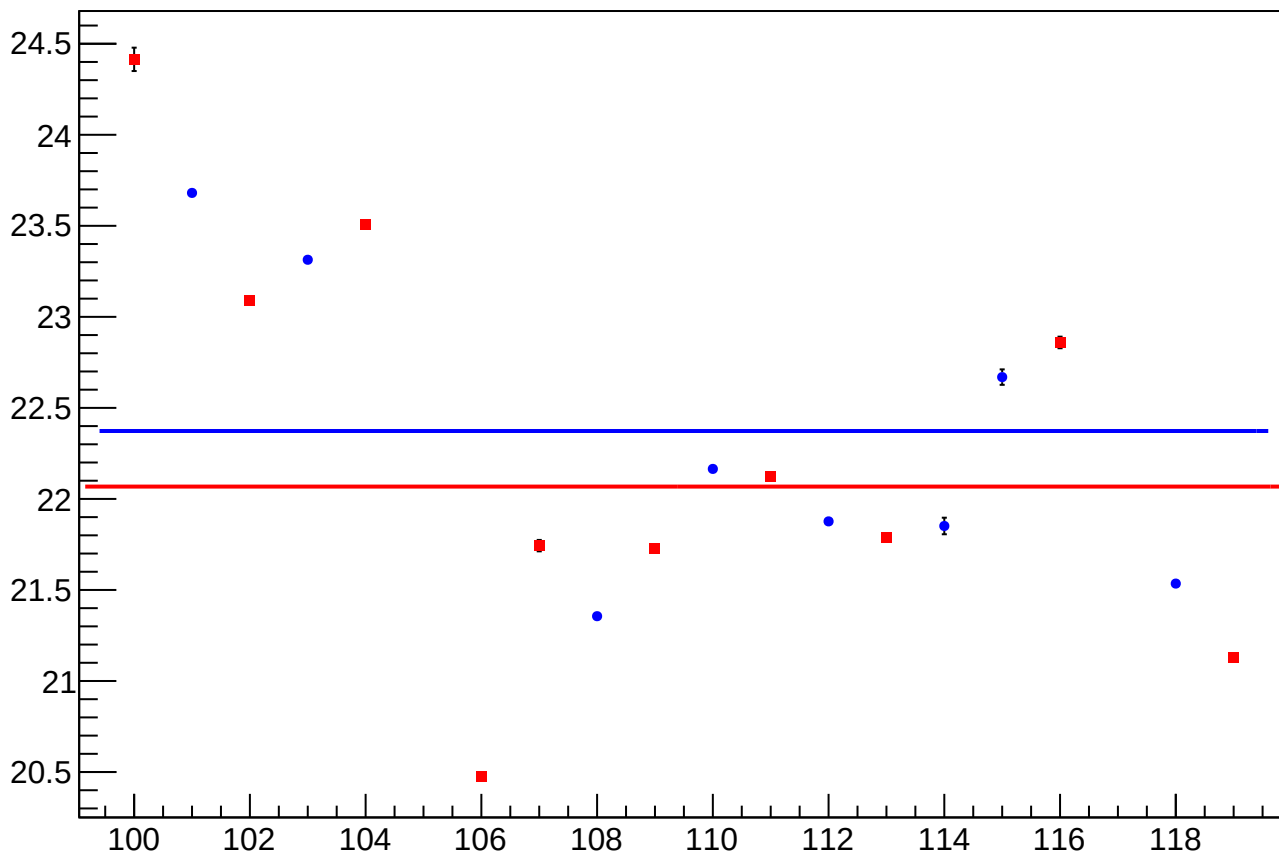
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.209+/-8.133  $\chi^2/\text{NDF}$ : 20.8/17

- 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: 22.373+/-0.009  $\chi^2/\text{NDF}$ : 10171.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.068+/-0.008  $\chi^2/\text{NDF}$ : 15217.0/9

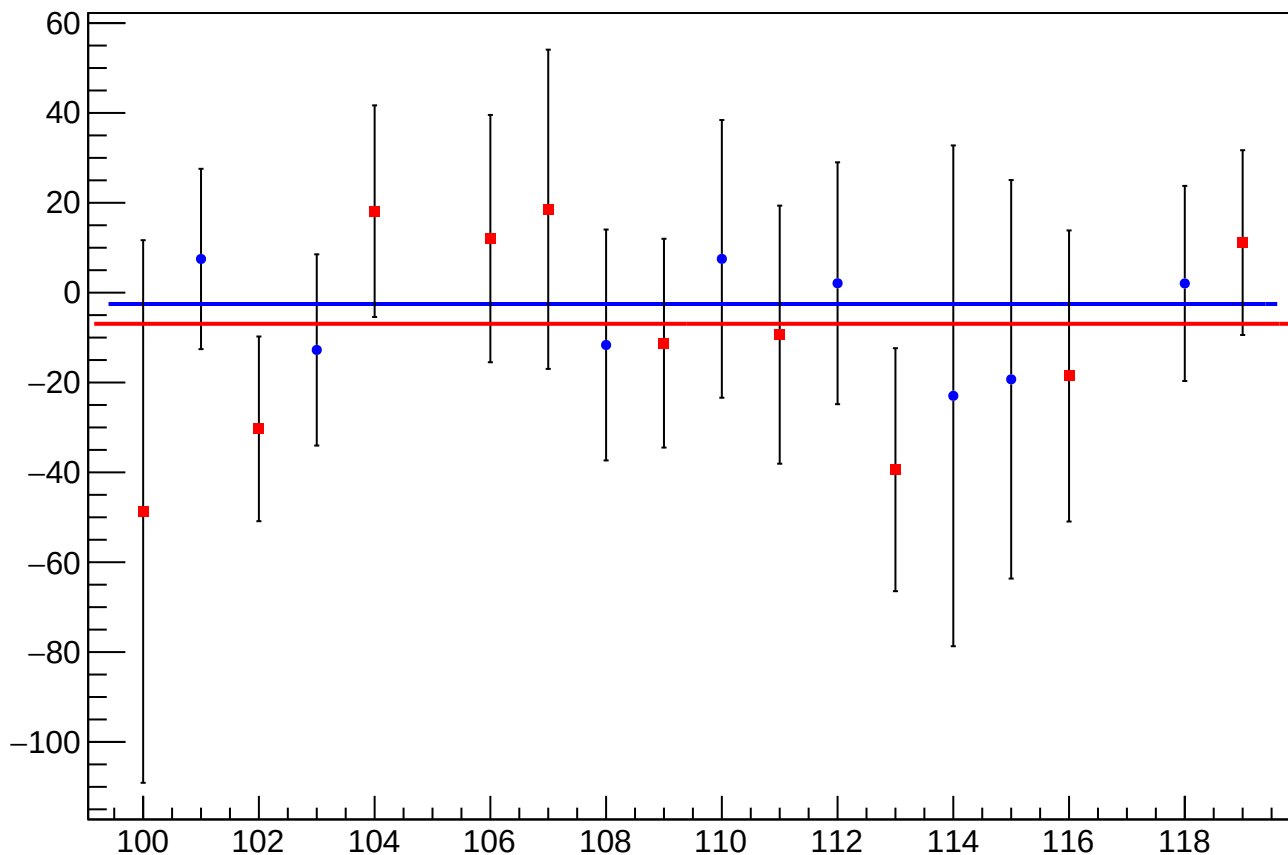
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.202+/-0.006  $\chi^2/\text{NDF}$ : 26082.5/17

- 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: -2.525+/-9.291  $\chi^2/\text{NDF}$ : 1.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.933+/-8.361  $\chi^2/\text{NDF}$ : 6.3/9

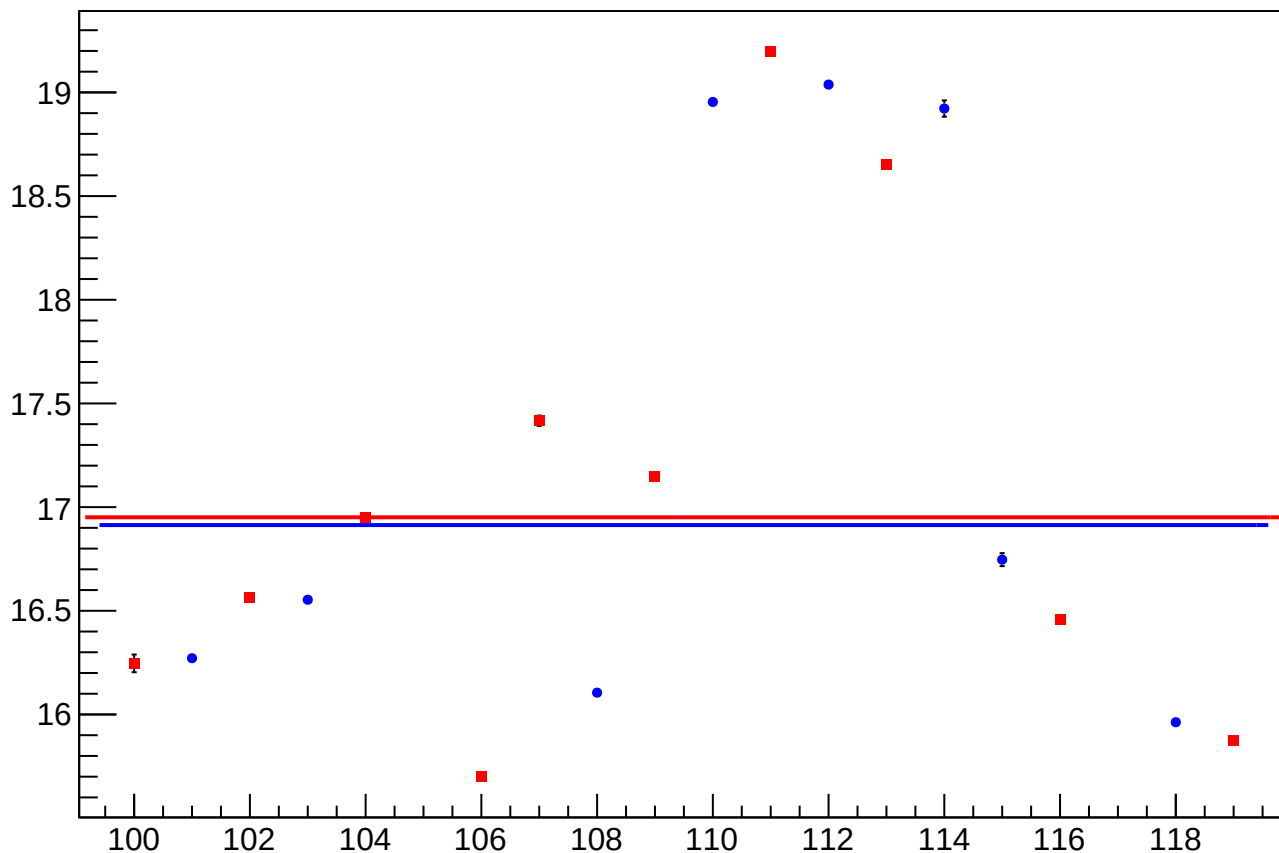
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.961+/-6.215  $\chi^2/\text{NDF}$ : 7.5/17

- 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: 16.913+/-0.007  $\chi^2/\text{NDF}$ : 32237.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16.951+/-0.006  $\chi^2/\text{NDF}$ : 31673.8/9

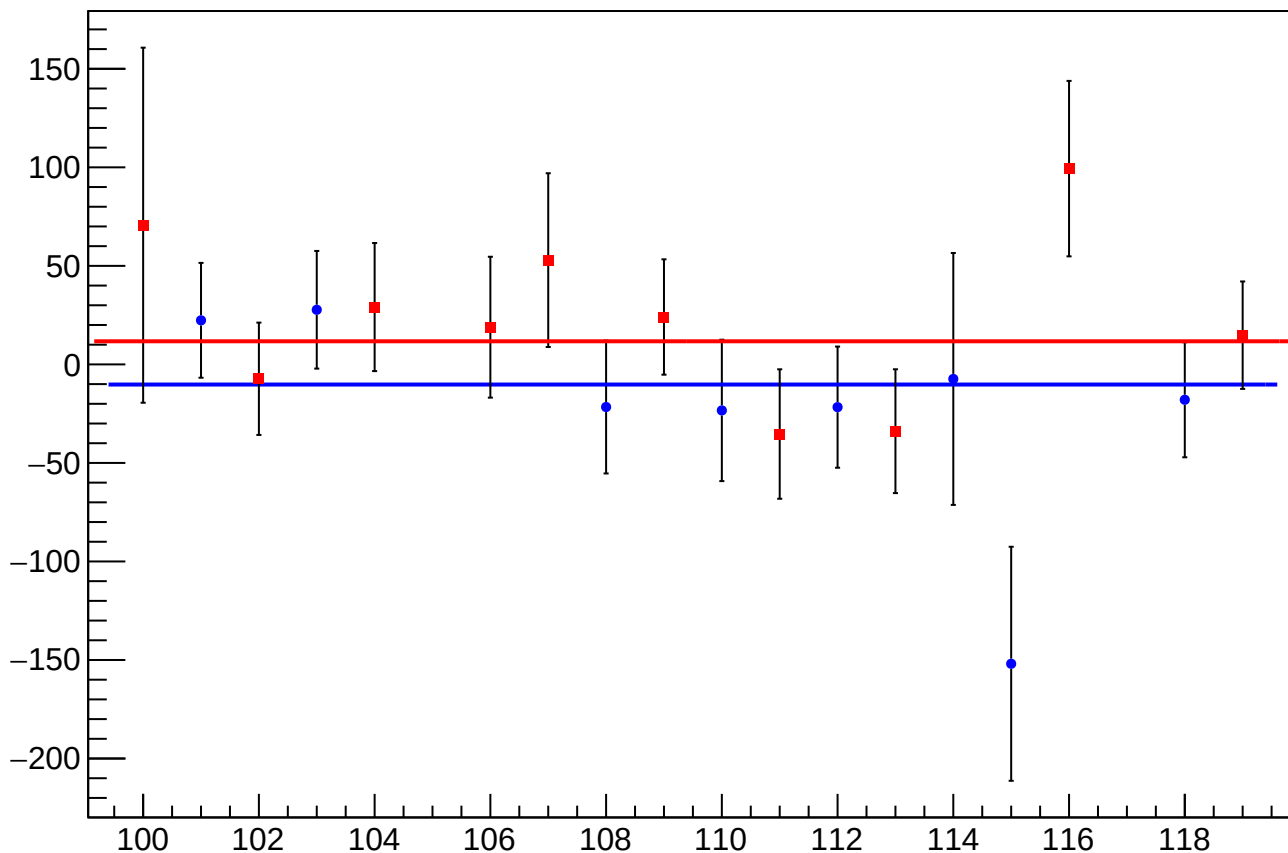
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.934+/-0.004  $\chi^2/\text{NDF}$ : 63929.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_us\_agg\_dd\_mean vs Slug



Right In: -10.223+/-12.202  $\chi^2/\text{NDF}$ : 9.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11.726+/-10.812  $\chi^2/\text{NDF}$ : 10.3/9

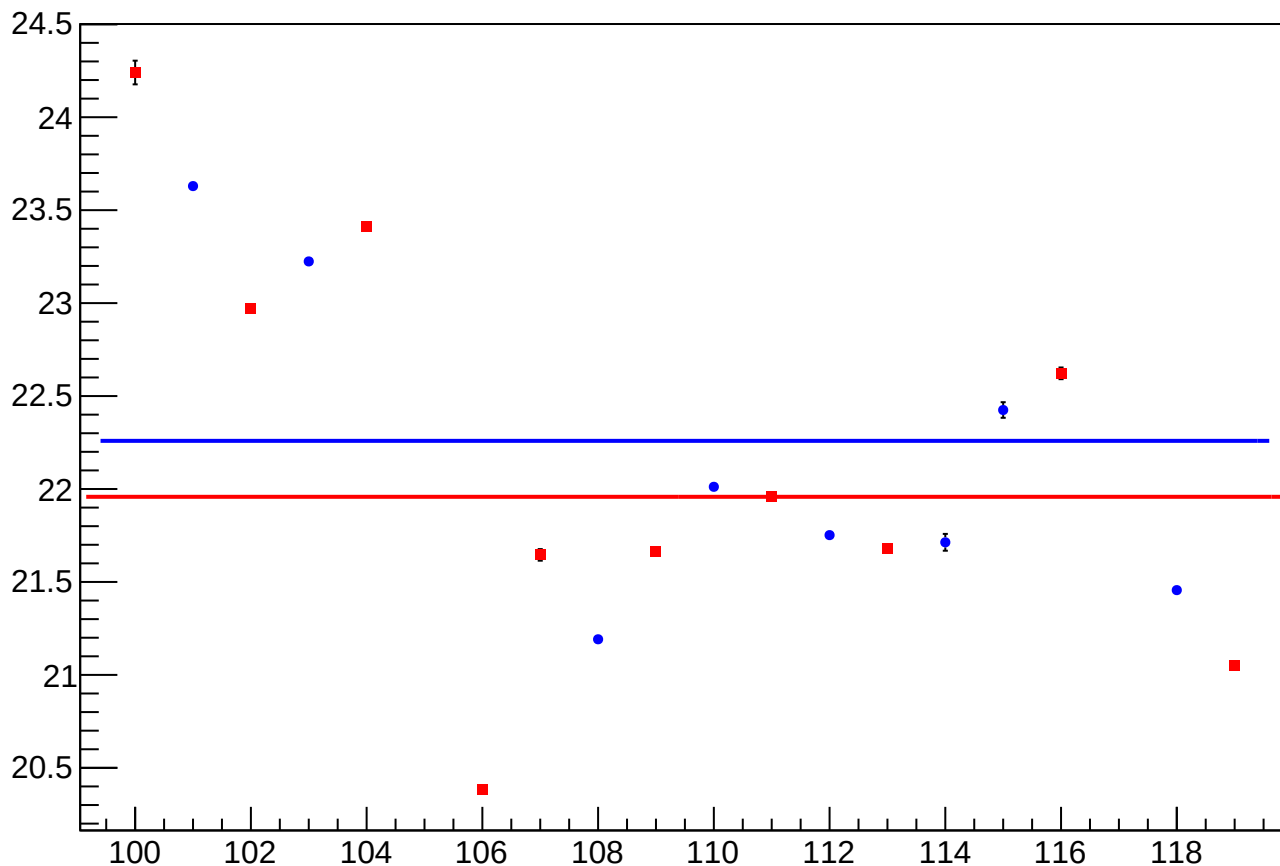
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.073+/-8.092  $\chi^2/\text{NDF}$ : 21.1/17

- 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: 22.259+/-0.009  $\chi^2/\text{NDF}$ : 10833.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.958+/-0.008  $\chi^2/\text{NDF}$ : 14825.9/9

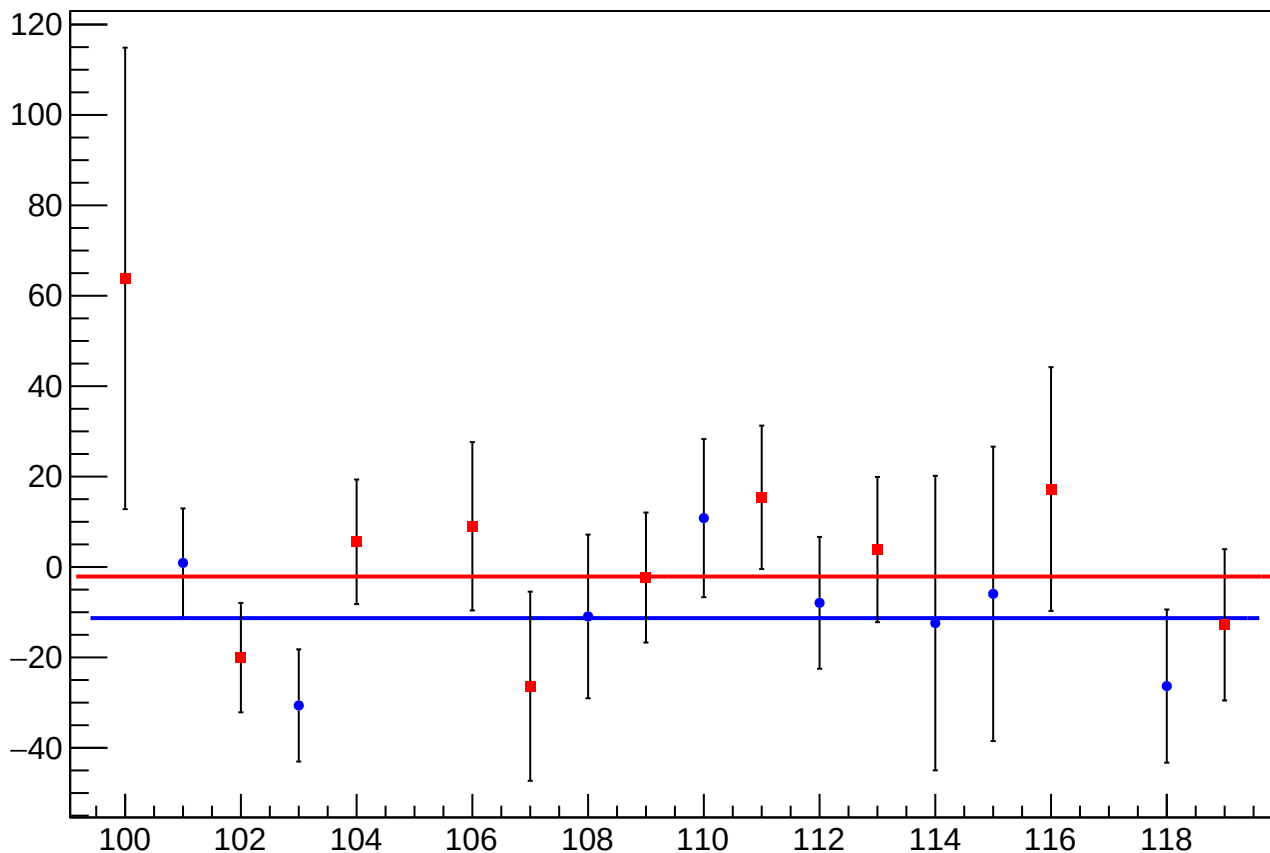
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.090+/-0.006  $\chi^2/\text{NDF}$ : 26340.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_mean vs Slug



Right In: -11.308 $\pm$ 5.795  $\chi^2$ /NDF: 5.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.105 $\pm$ 5.323  $\chi^2$ /NDF: 8.2/9

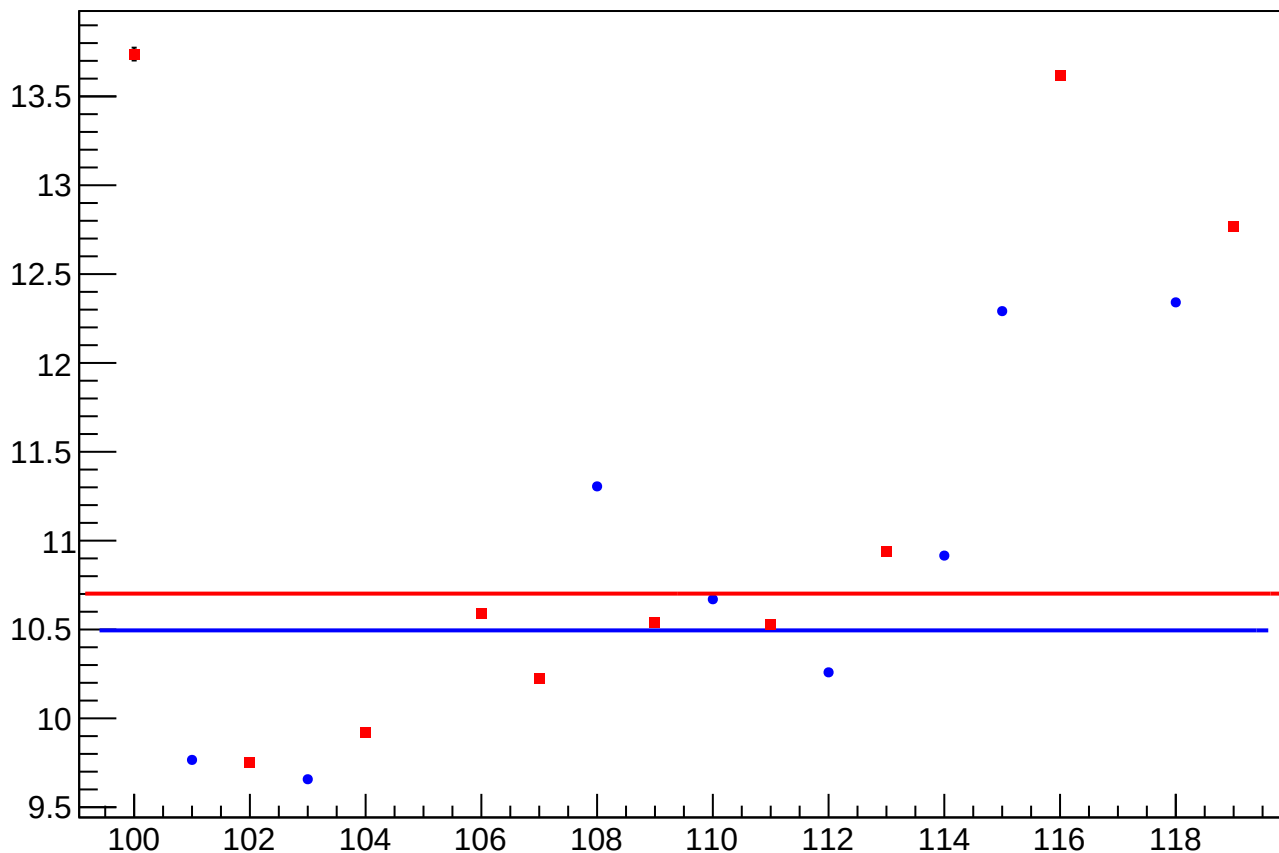
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.316 $\pm$ 3.921  $\chi^2$ /NDF: 15.5/17

- 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: 10.495 $\pm$ 0.004  $\chi^2$ /NDF: 51310.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.702 $\pm$ 0.004  $\chi^2$ /NDF: 81782.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

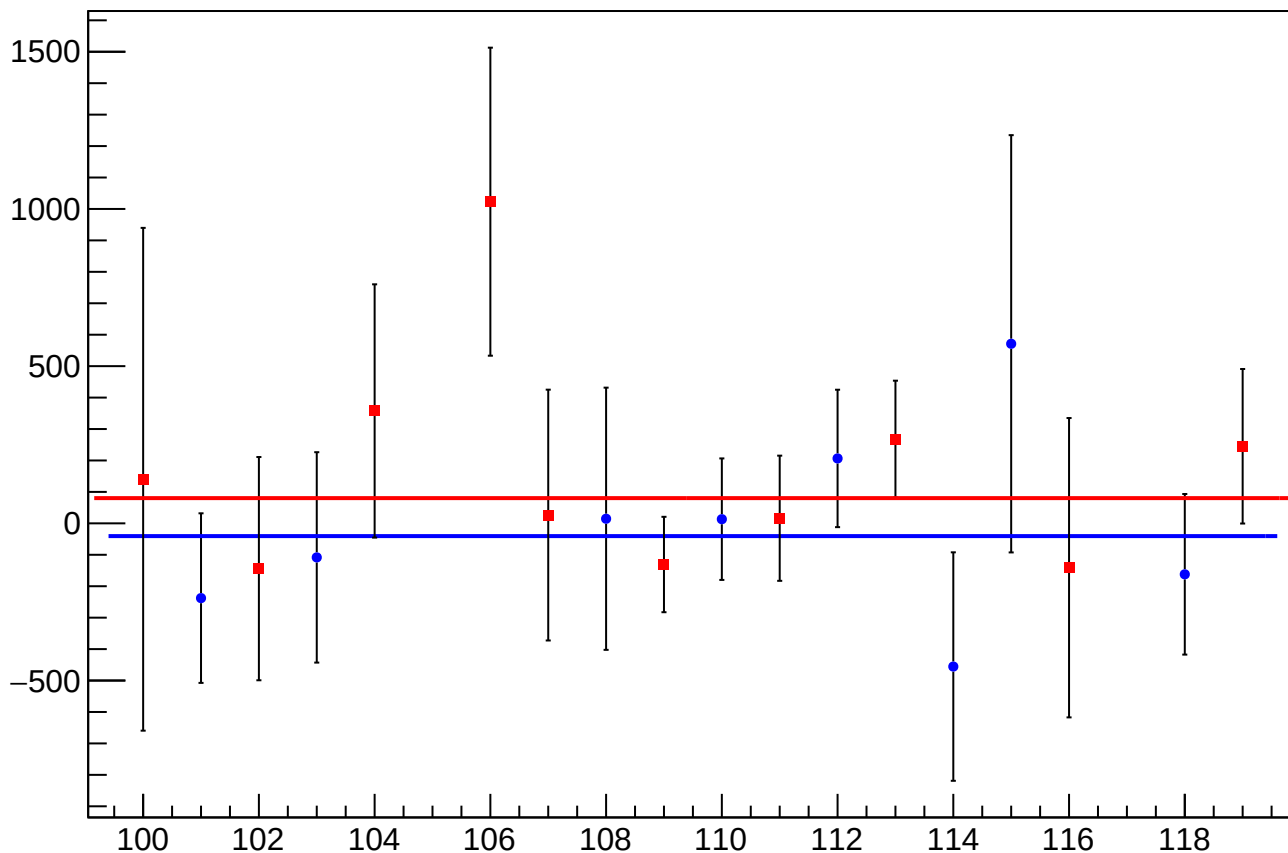
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.607 $\pm$ 0.003  $\chi^2$ /NDF: 134475.2/17

- 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: -40.578+/-99.346  $\chi^2/\text{NDF}$ : 4.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 80.237+/-83.143  $\chi^2/\text{NDF}$ : 8.3/9

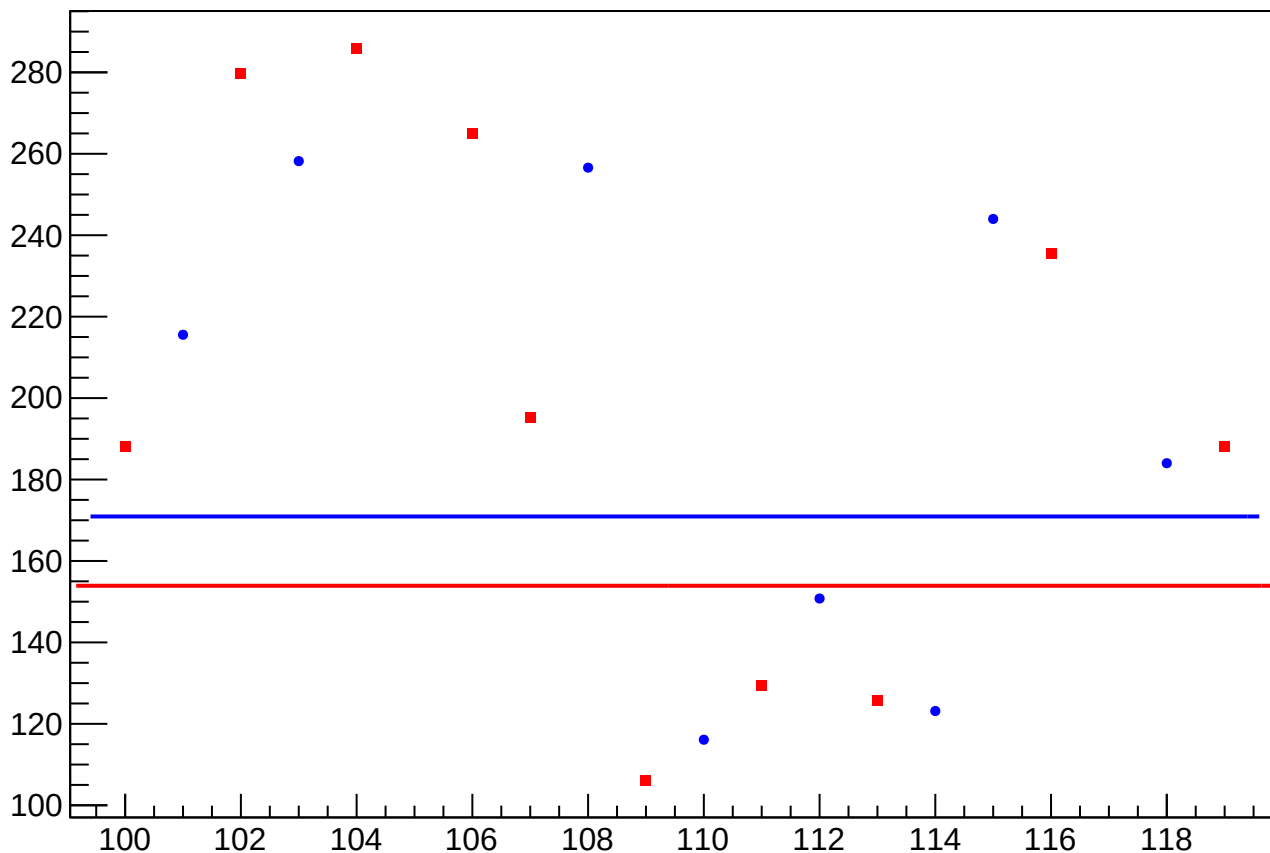
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.473+/-63.760  $\chi^2/\text{NDF}$ : 13.5/17

- 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: 170.927+/-0.070  $\chi^2/\text{NDF}$ : 517263.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 153.912+/-0.059  $\chi^2/\text{NDF}$ : 965903.3/9

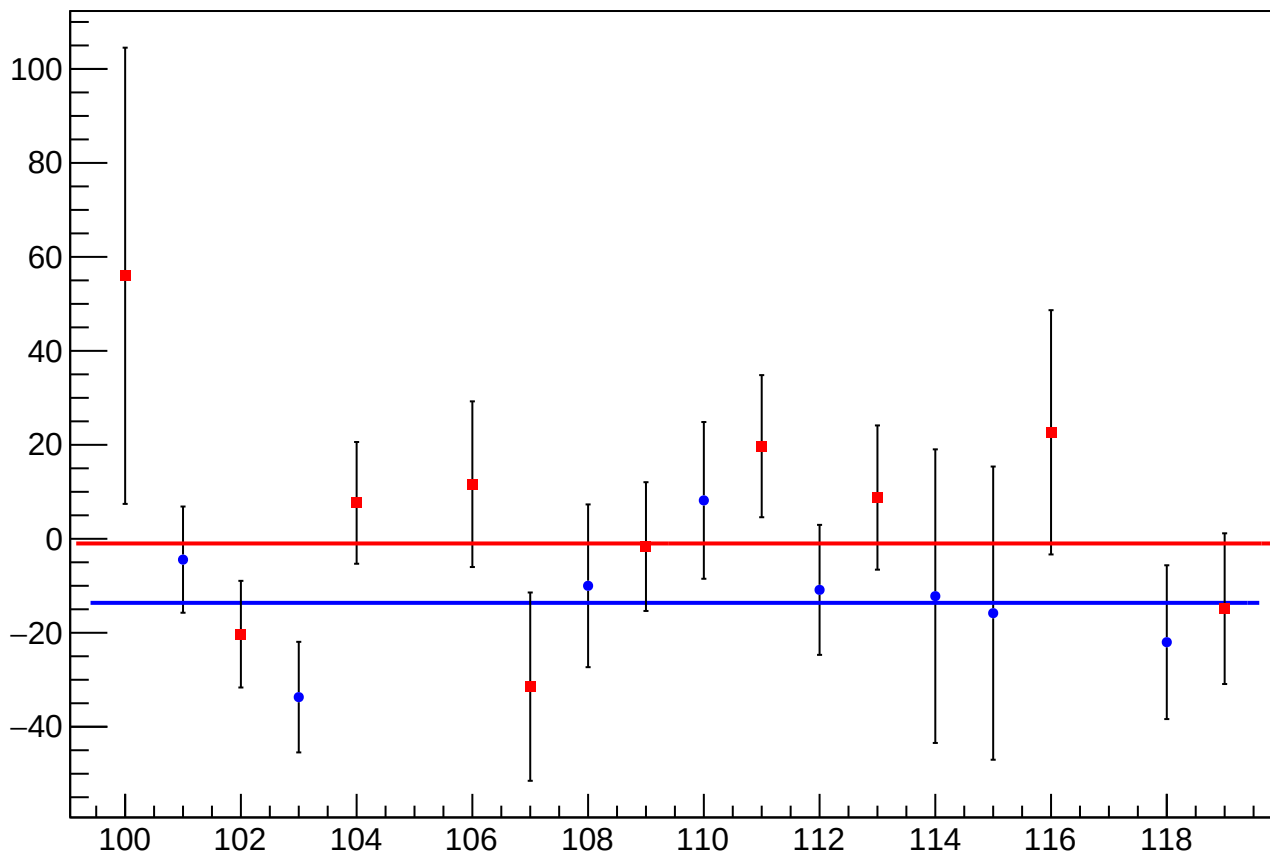
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 160.920+/-0.045  $\chi^2/\text{NDF}$ : 1517668.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_mean vs Slug



Right In: -13.630 $\pm$ 5.506  $\chi^2$ /NDF: 5.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.992 $\pm$ 5.053  $\chi^2$ /NDF: 11.4/9

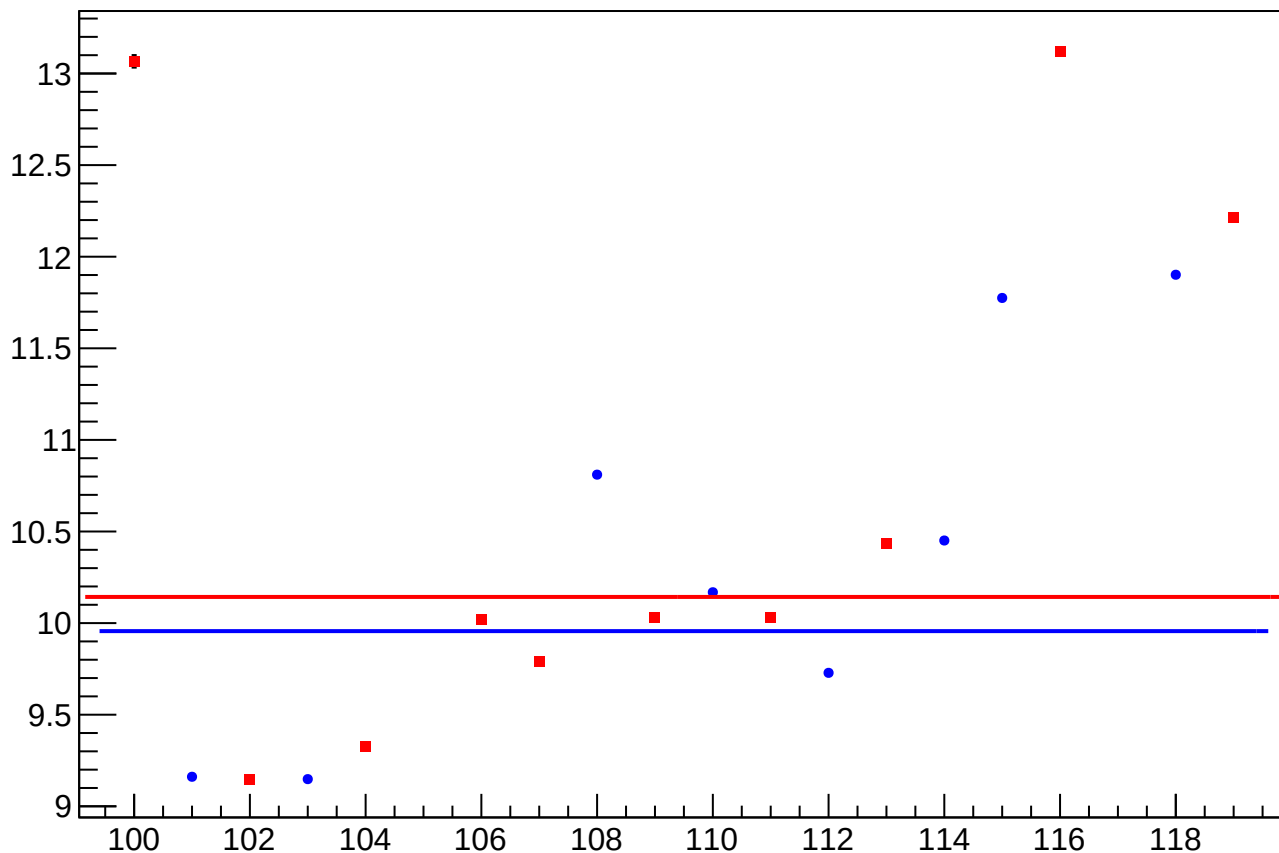
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.770 $\pm$ 3.723  $\chi^2$ /NDF: 19.9/17

- 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: 9.956+/-0.004  $\chi^2/\text{NDF}$ : 60603.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.143+/-0.004  $\chi^2/\text{NDF}$ : 91939.0/9

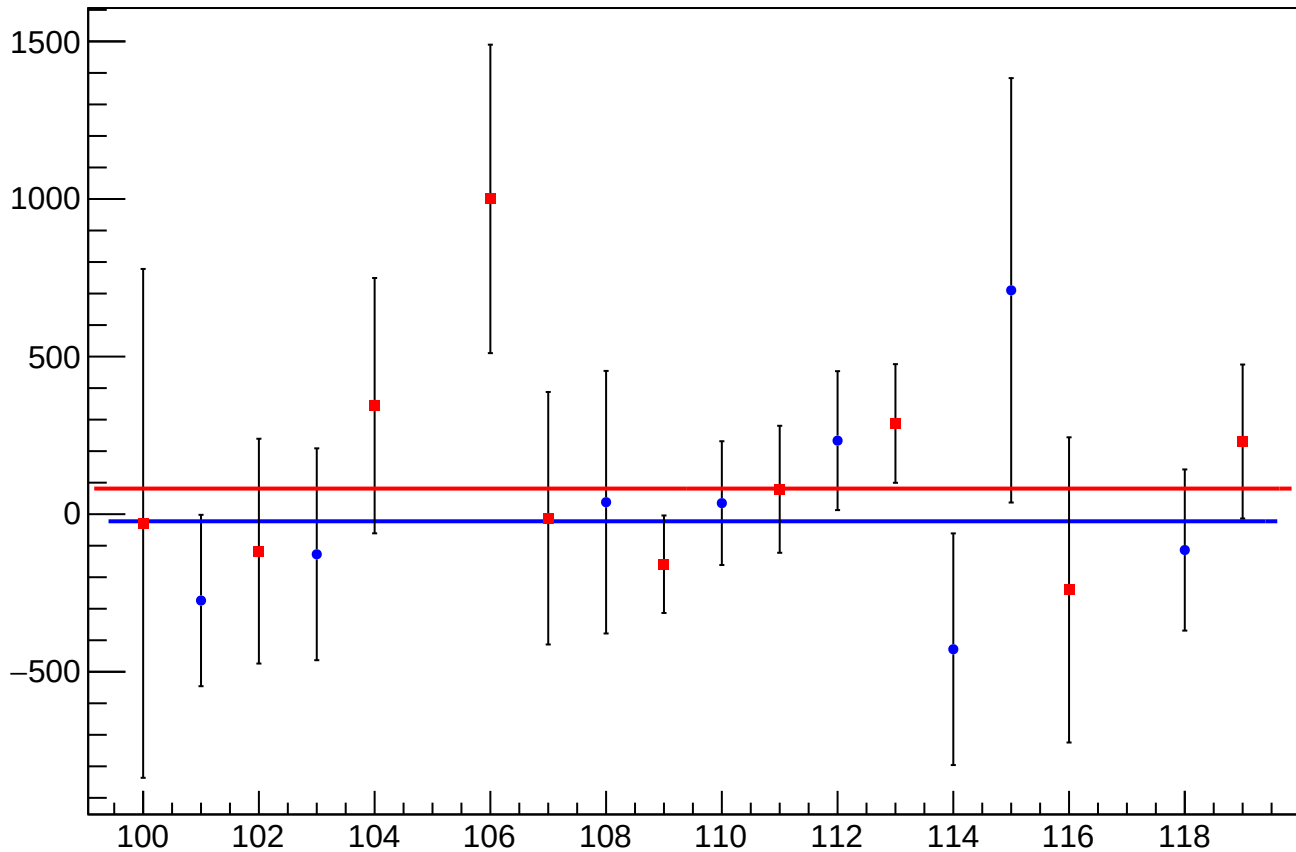
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.058+/-0.003  $\chi^2/\text{NDF}$ : 153789.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_mean vs Slug



Right In: -22.539 $\pm$ 100.211  $\chi^2$ /NDF: 4.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 81.236 $\pm$ 84.038  $\chi^2$ /NDF: 8.8/9

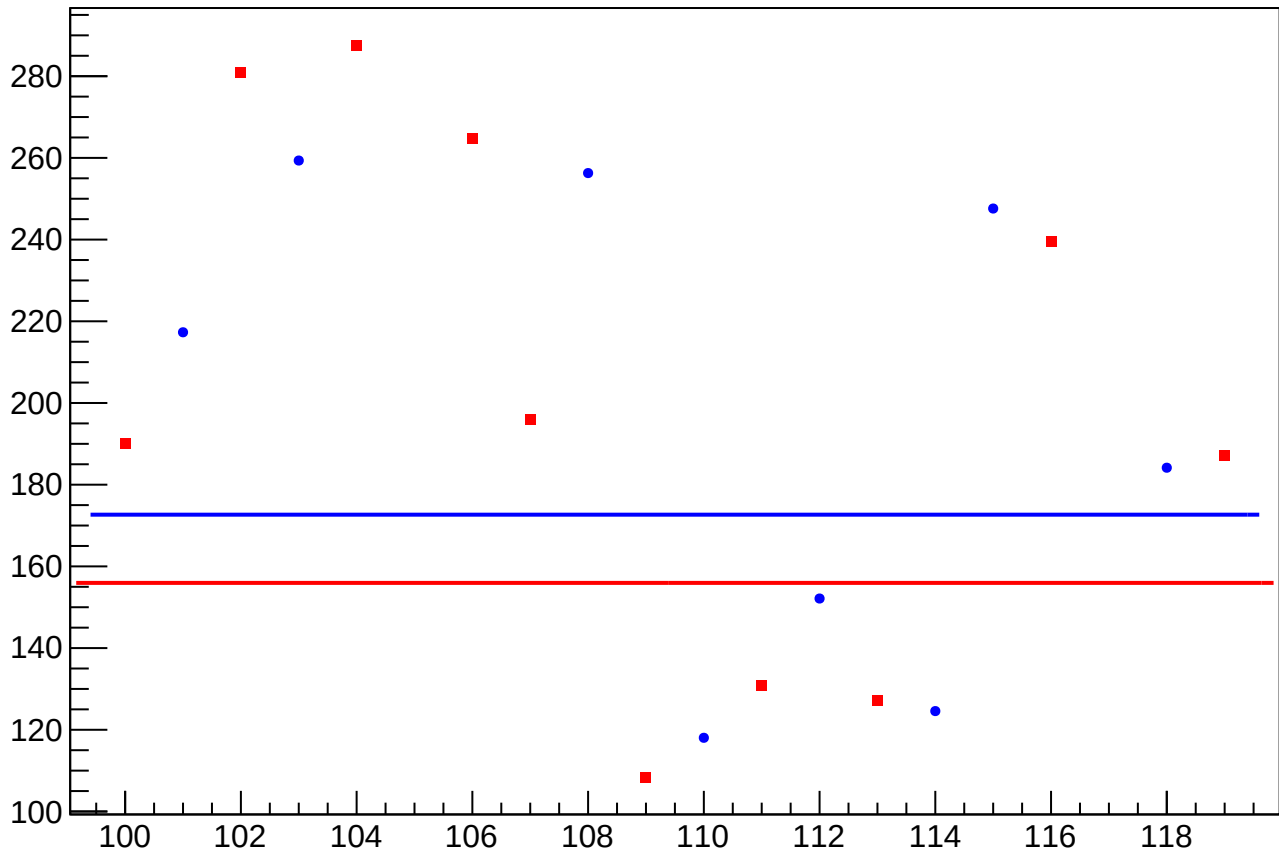
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 38.388 $\pm$ 64.393  $\chi^2$ /NDF: 14.3/17

- 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: 172.659+/-0.071  $\chi^2/\text{NDF}$ : 502840.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 155.959+/-0.059  $\chi^2/\text{NDF}$ : 937622.0/9

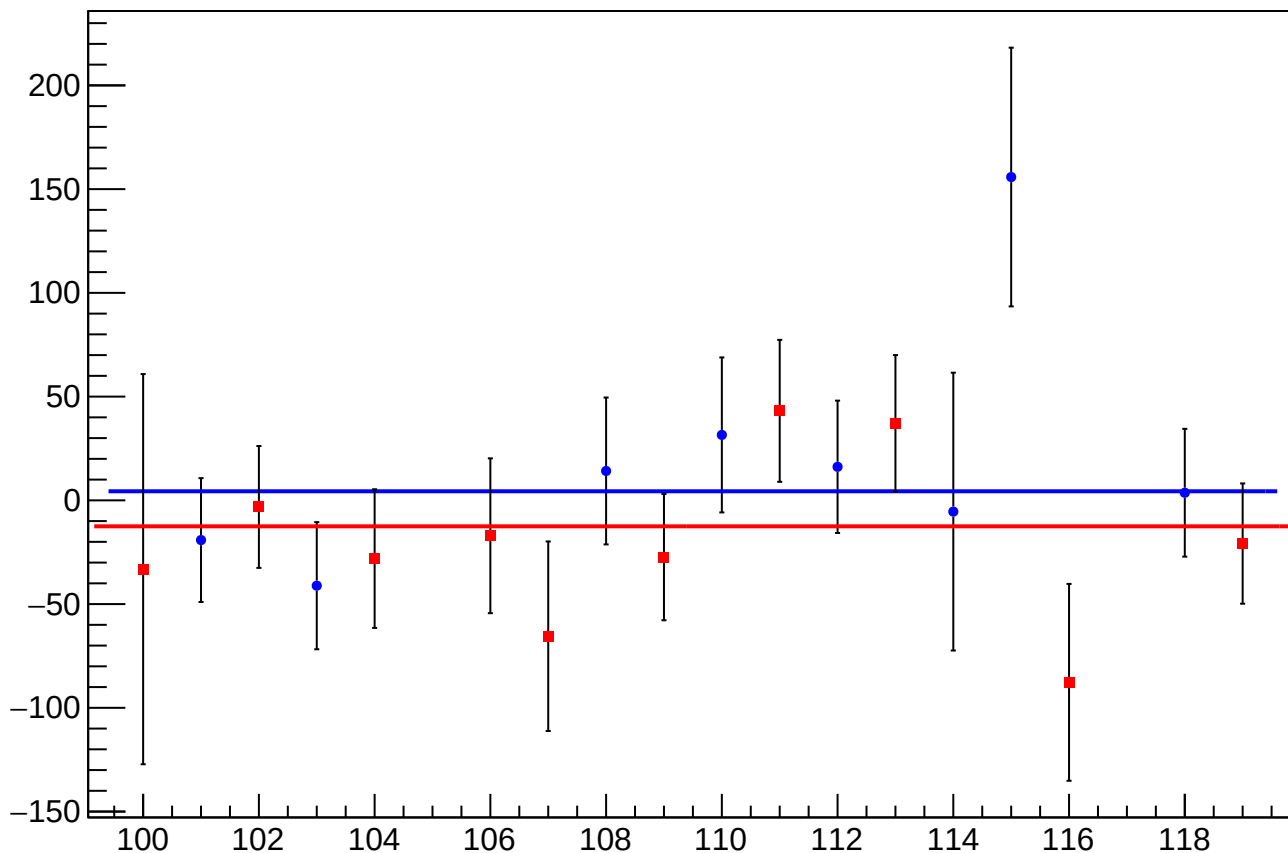
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 162.854+/-0.046  $\chi^2/\text{NDF}$ : 1473073.6/17

- 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: 4.370 $\pm$ 12.679  $\chi^2$ /NDF: 9.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -12.522 $\pm$ 11.280  $\chi^2$ /NDF: 9.5/9

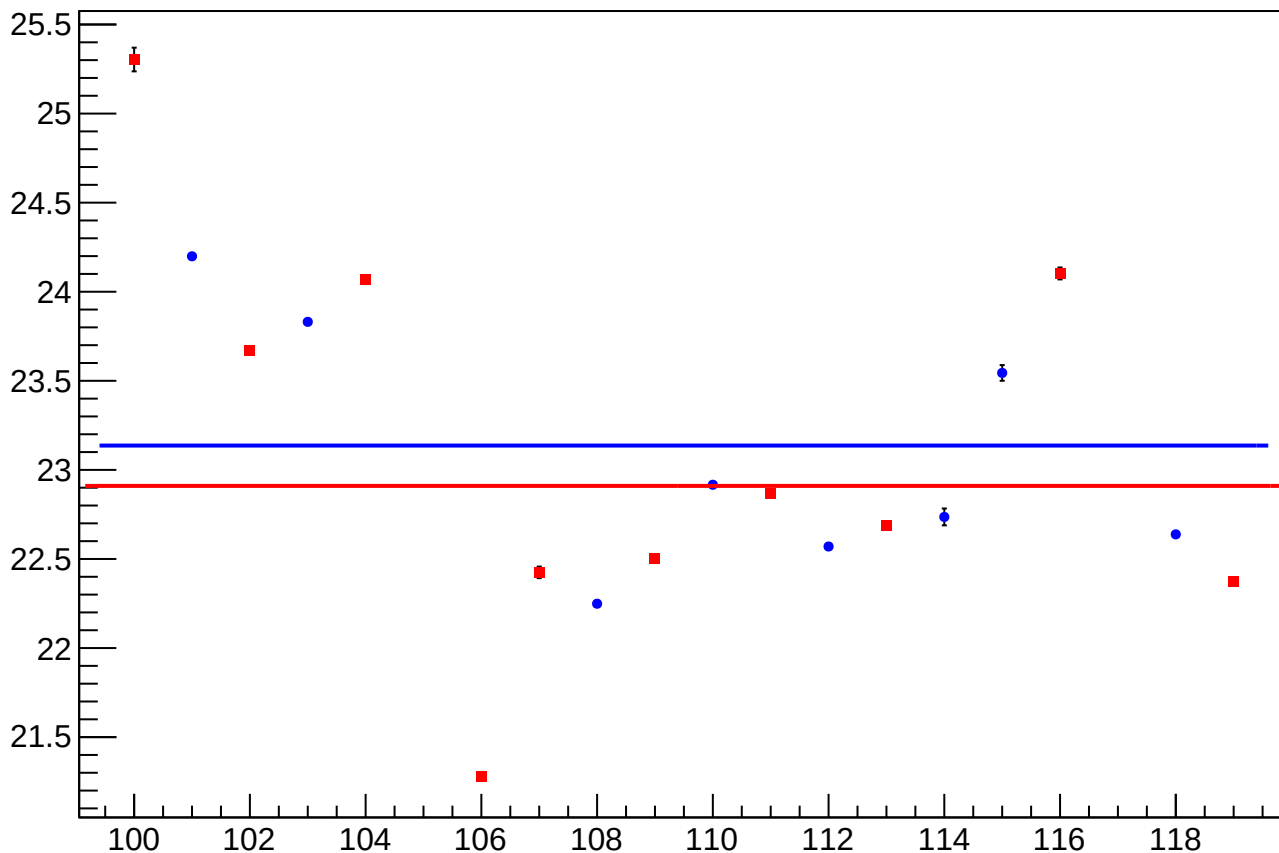
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -5.060 $\pm$ 8.427  $\chi^2$ /NDF: 20.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 23.137+/-0.009  $\chi^2/\text{NDF}$ : 6201.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.910+/-0.008  $\chi^2/\text{NDF}$ : 11467.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

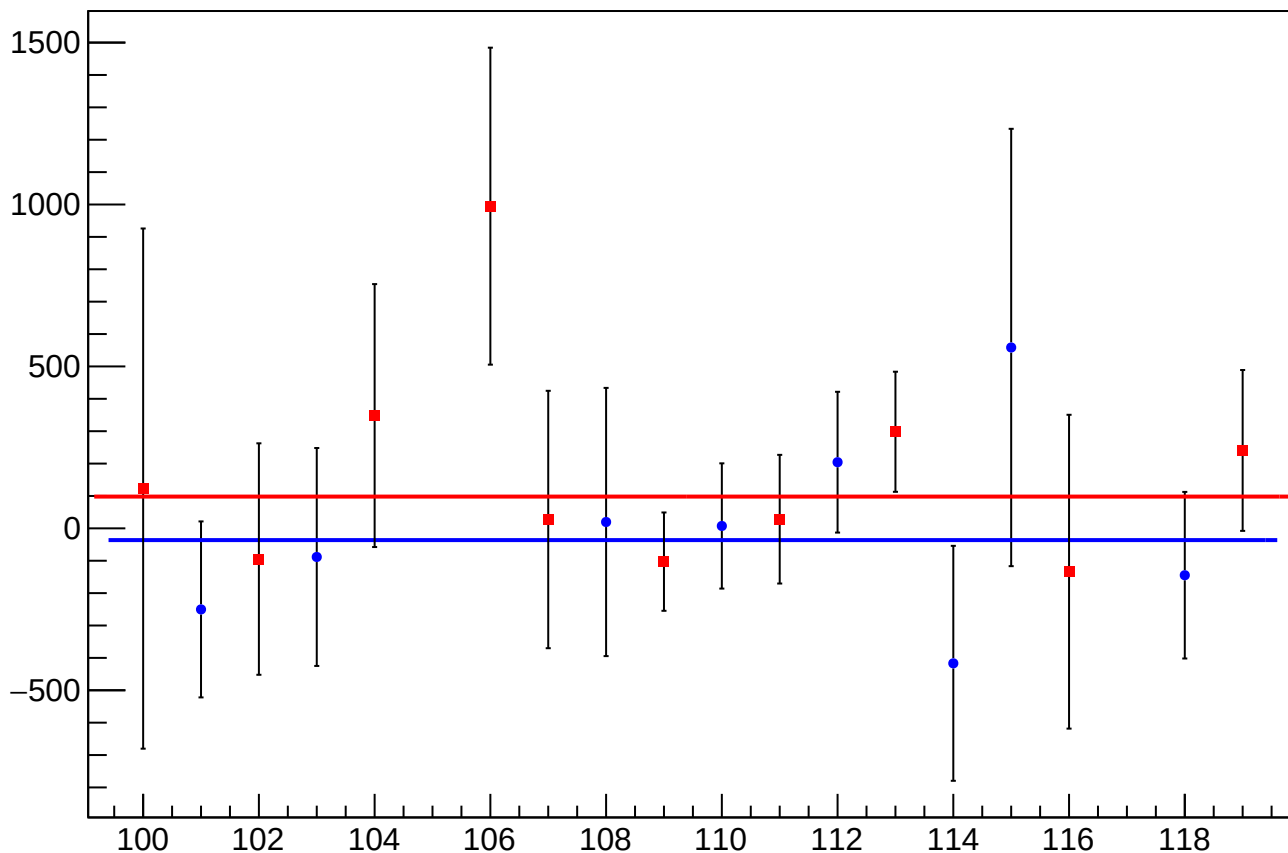
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.010+/-0.006  $\chi^2/\text{NDF}$ : 18024.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_mean vs Slug



Right In: -36.270+/-99.491  $\chi^2/\text{NDF}$ : 4.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 98.108+/-83.266  $\chi^2/\text{NDF}$ : 7.7/9

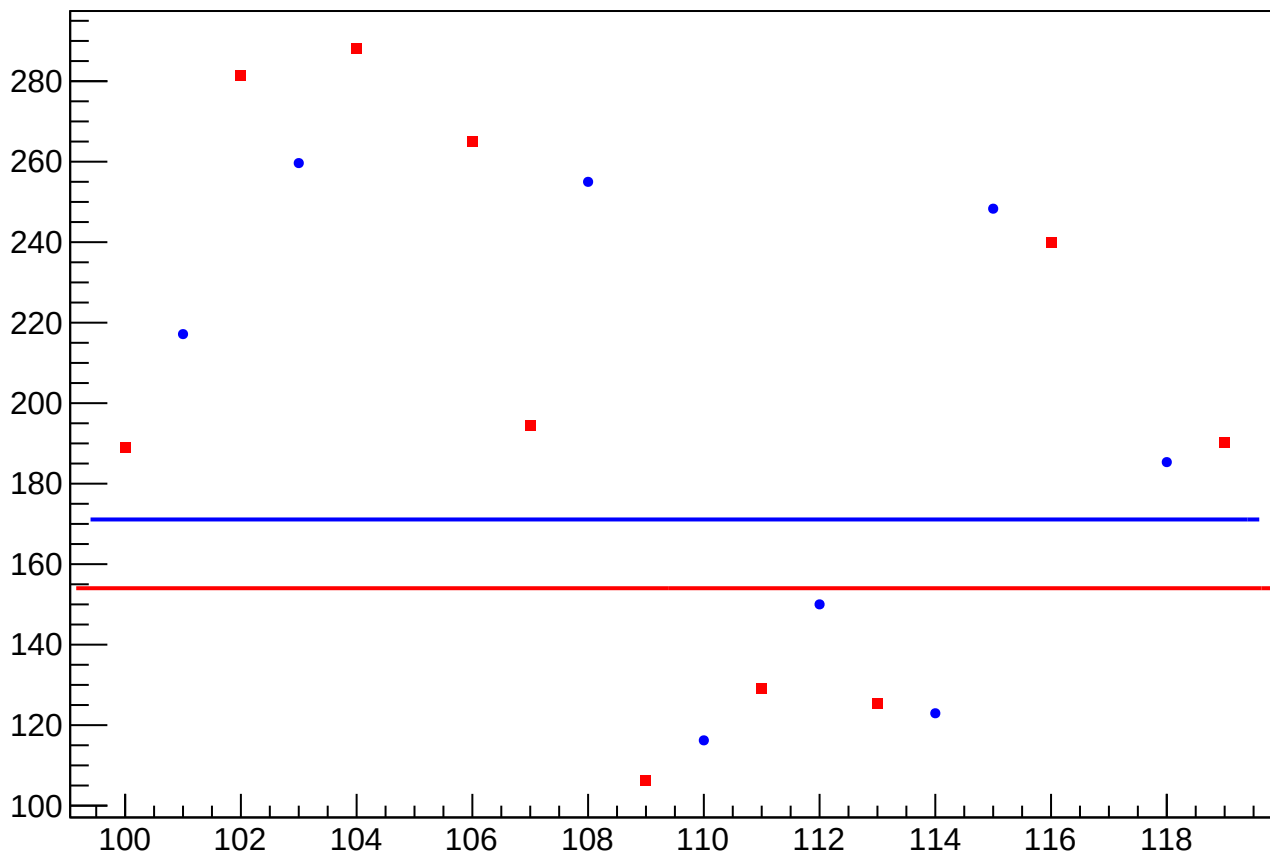
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 42.755+/-63.854  $\chi^2/\text{NDF}$ : 12.7/17

- 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: 171.103+/-0.070  $\chi^2/\text{NDF}$ : 525509.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 154.021+/-0.059  $\chi^2/\text{NDF}$ : 982054.6/9

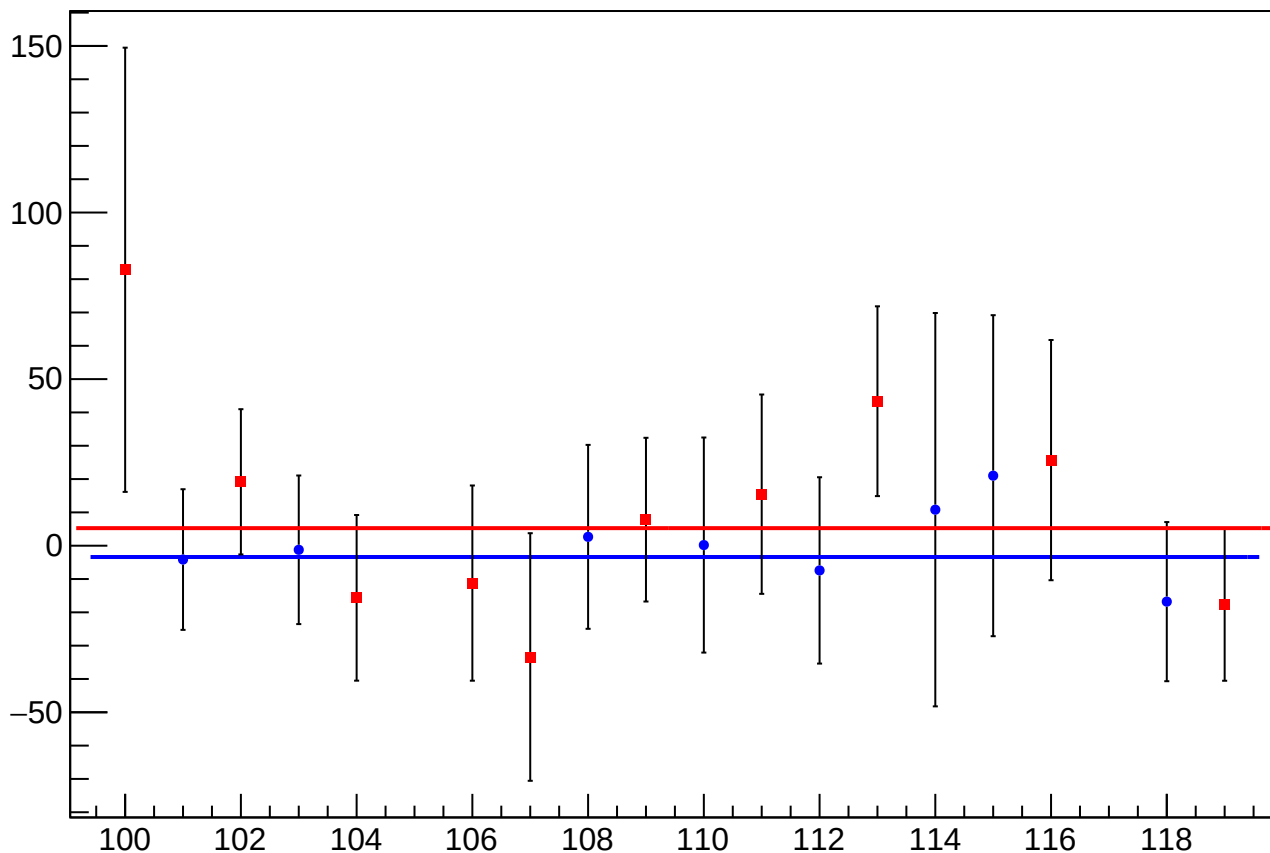
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 161.058+/-0.045  $\chi^2/\text{NDF}$ : 1542234.4/17

- 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: -3.393+/-9.864  $\chi^2/\text{NDF}$ : 0.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.271+/-8.934  $\chi^2/\text{NDF}$ : 7.1/9

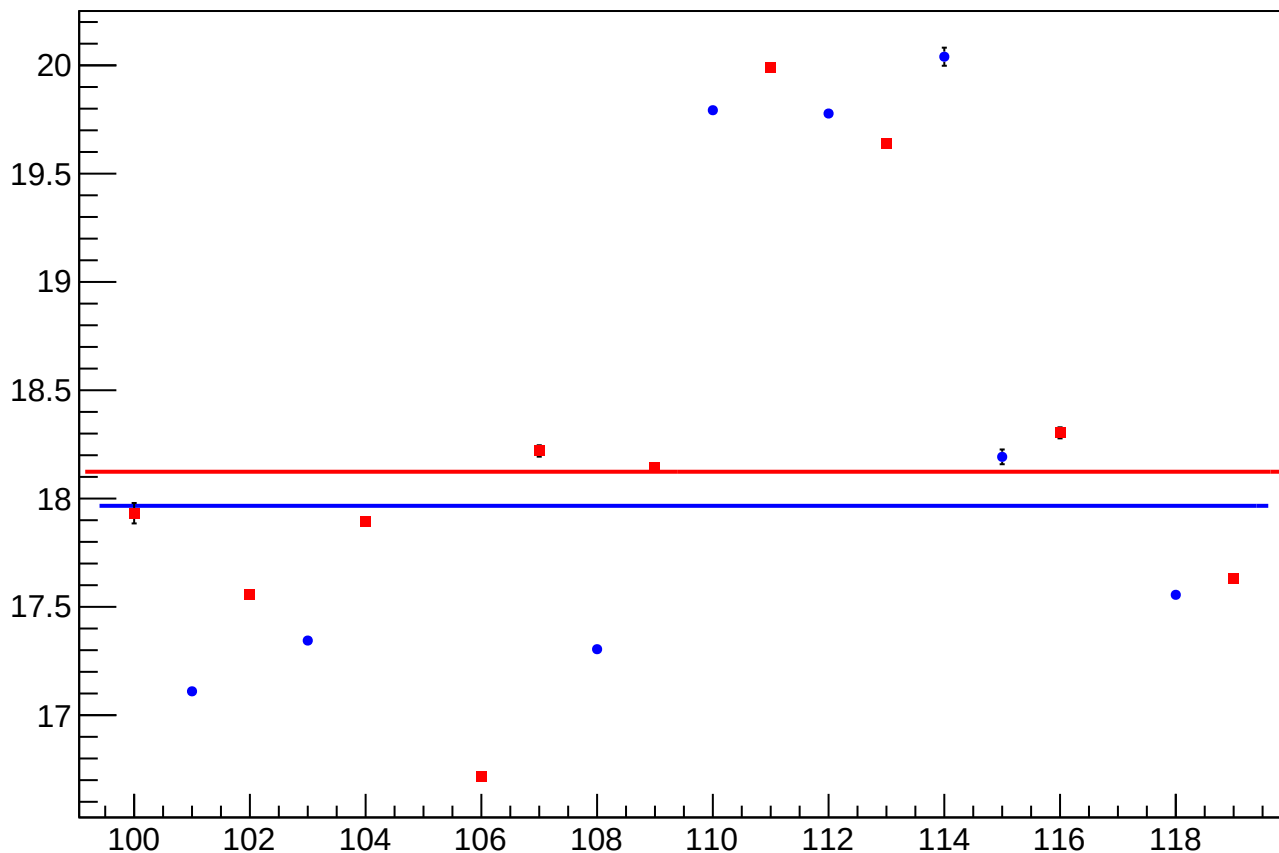
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.366+/-6.622  $\chi^2/\text{NDF}$ : 8.3/17

- 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: 17.966+/-0.007  $\chi^2/\text{NDF}$ : 23893.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.124+/-0.006  $\chi^2/\text{NDF}$ : 20573.6/9

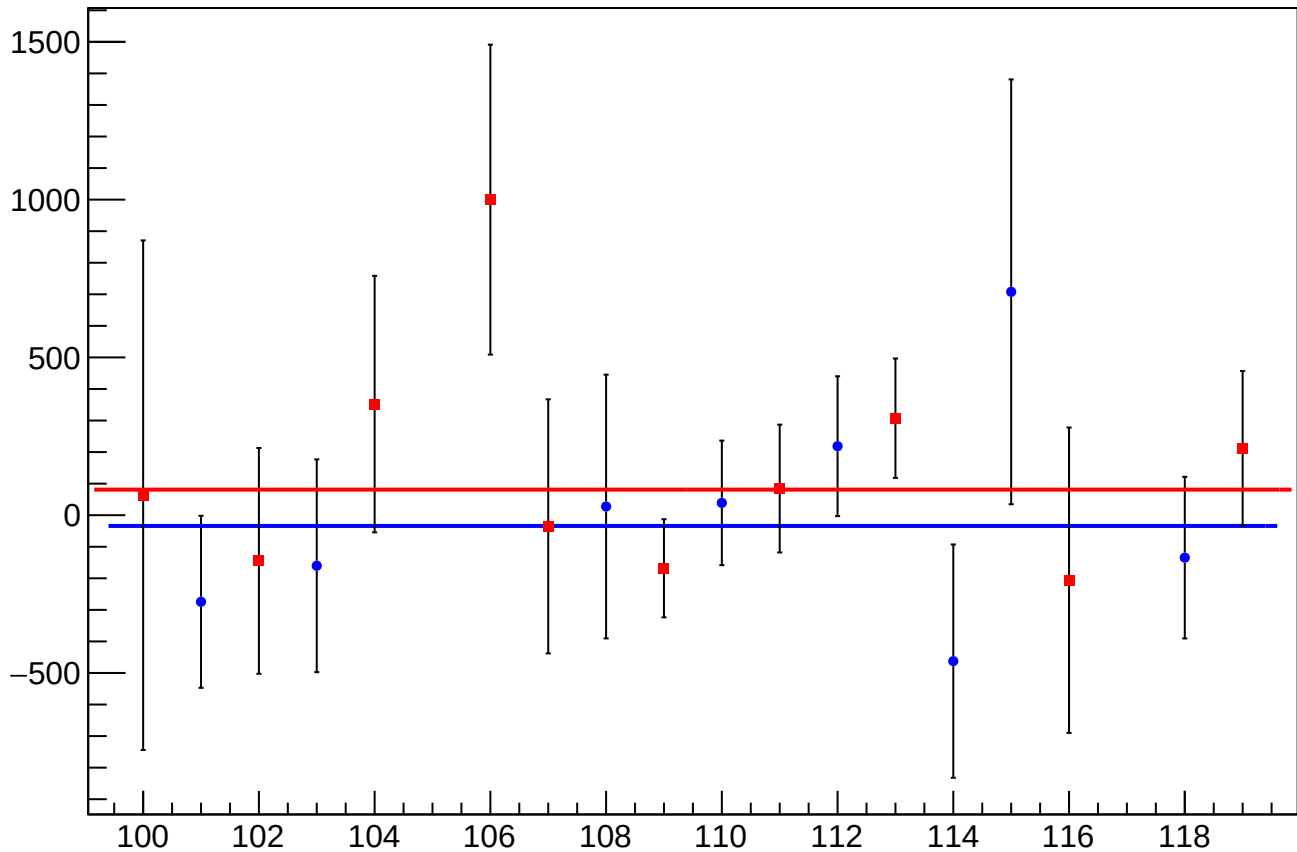
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.053+/-0.005  $\chi^2/\text{NDF}$ : 44746.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_mean vs Slug



Right In: -34.019 $\pm$ 100.601  $\chi^2$ /NDF: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 81.055 $\pm$ 84.402  $\chi^2$ /NDF: 9.1/9

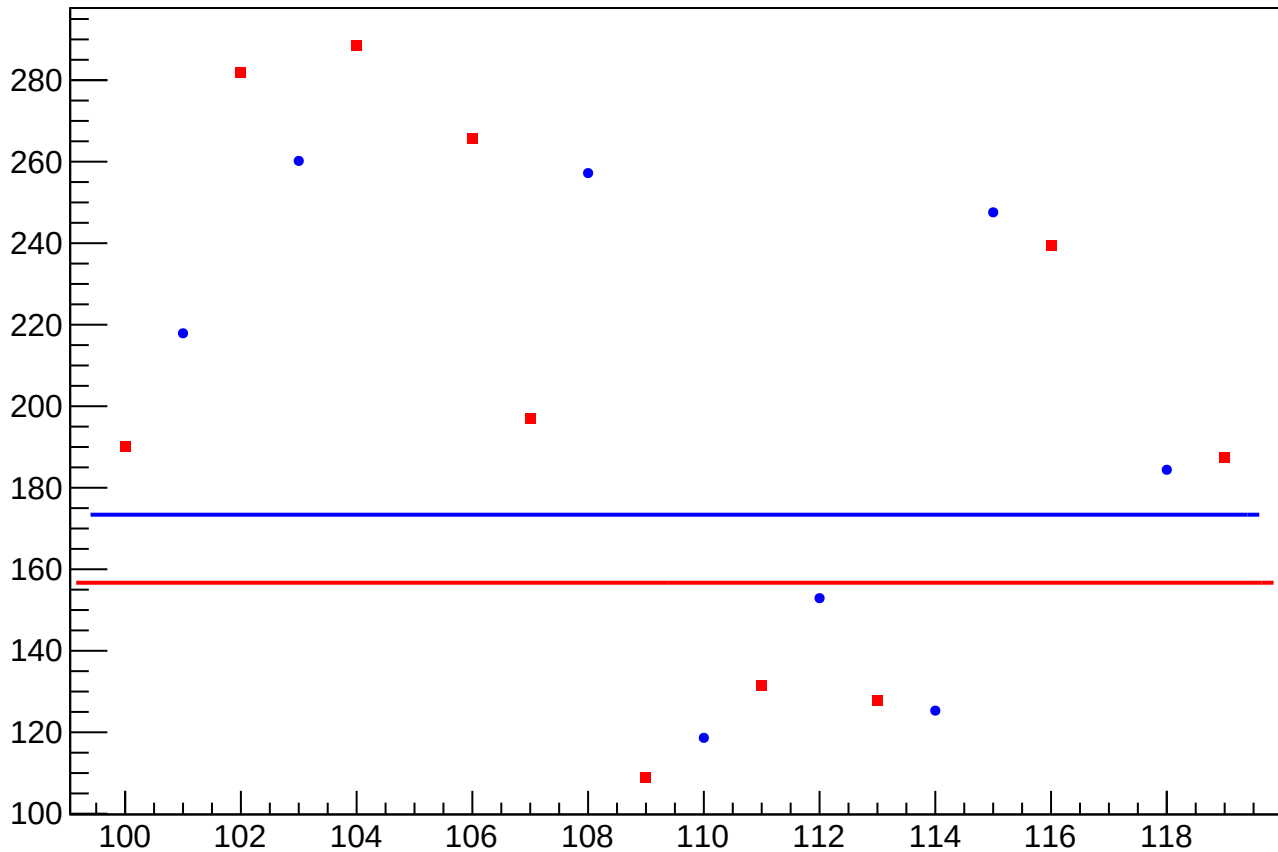
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.517 $\pm$ 64.660  $\chi^2$ /NDF: 14.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_rms vs Slug



Right In: 173.387 $\pm$ 0.071  $\chi^2$ /NDF: 499076.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 156.698 $\pm$ 0.060  $\chi^2$ /NDF: 932159.9/9

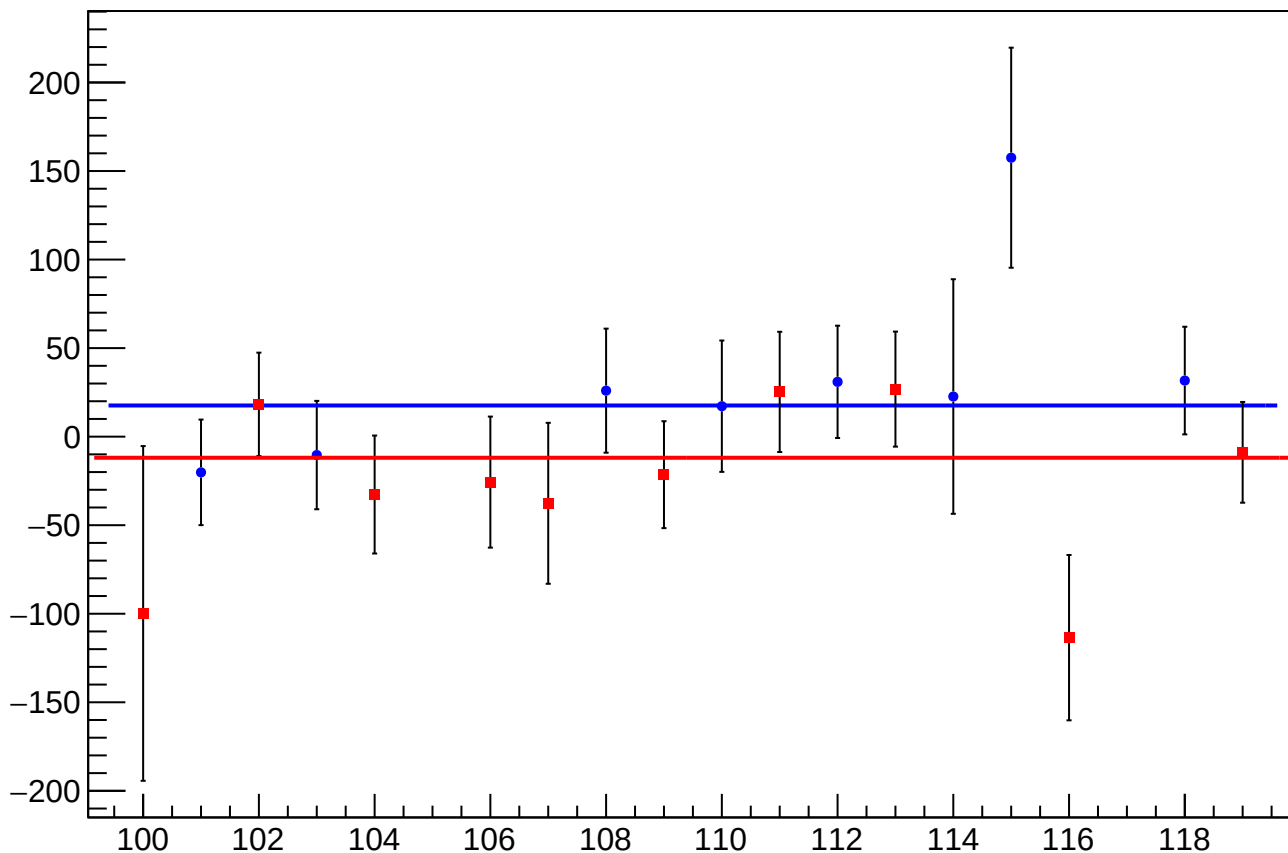
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 163.592 $\pm$ 0.046  $\chi^2$ /NDF: 1463540.0/17

- 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: 17.600 $\pm$ 12.597  $\chi^2$ /NDF: 8.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -11.916 $\pm$ 11.174  $\chi^2$ /NDF: 10.3/9

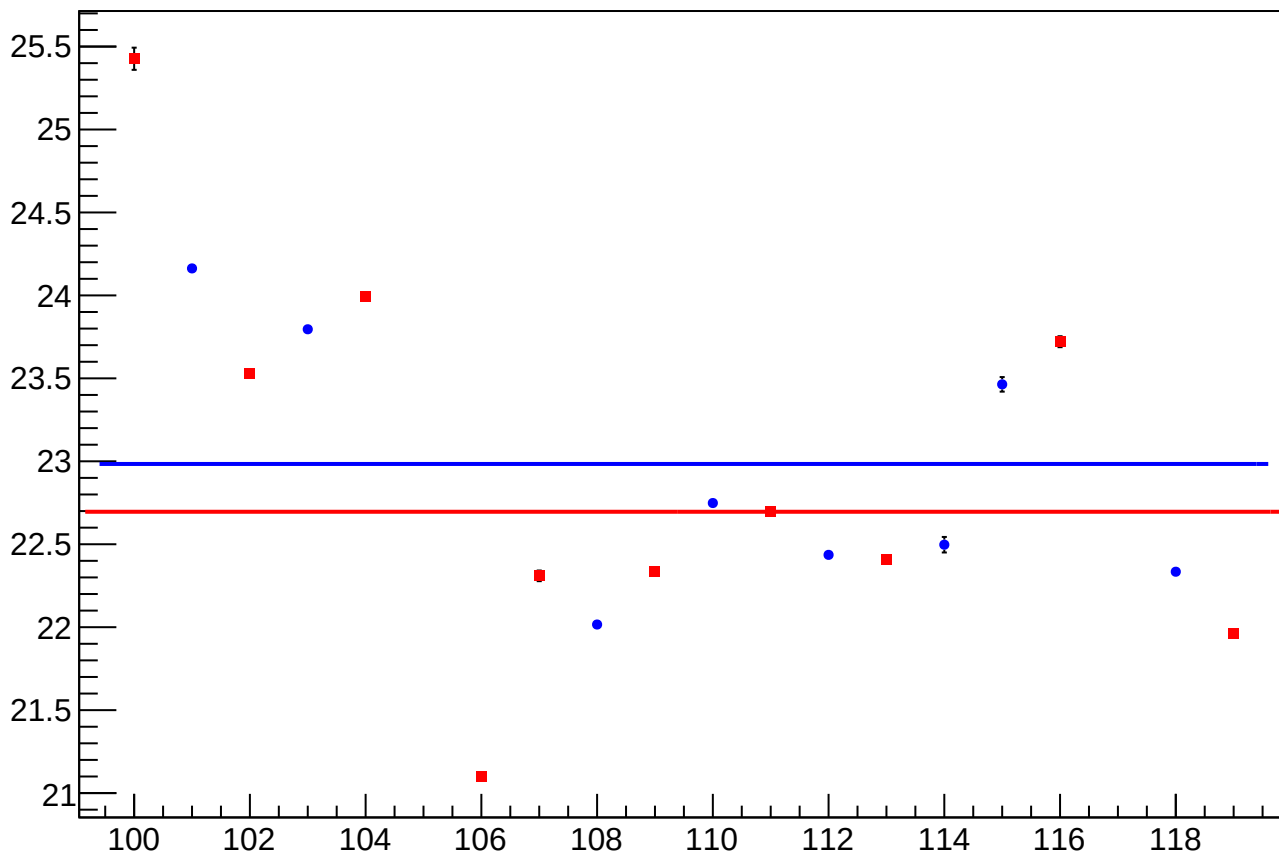
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.081 $\pm$ 8.359  $\chi^2$ /NDF: 21.3/17

- 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: 22.984+/-0.009  $\chi^2/\text{NDF}$ : 7885.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.696+/-0.008  $\chi^2/\text{NDF}$ : 12929.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

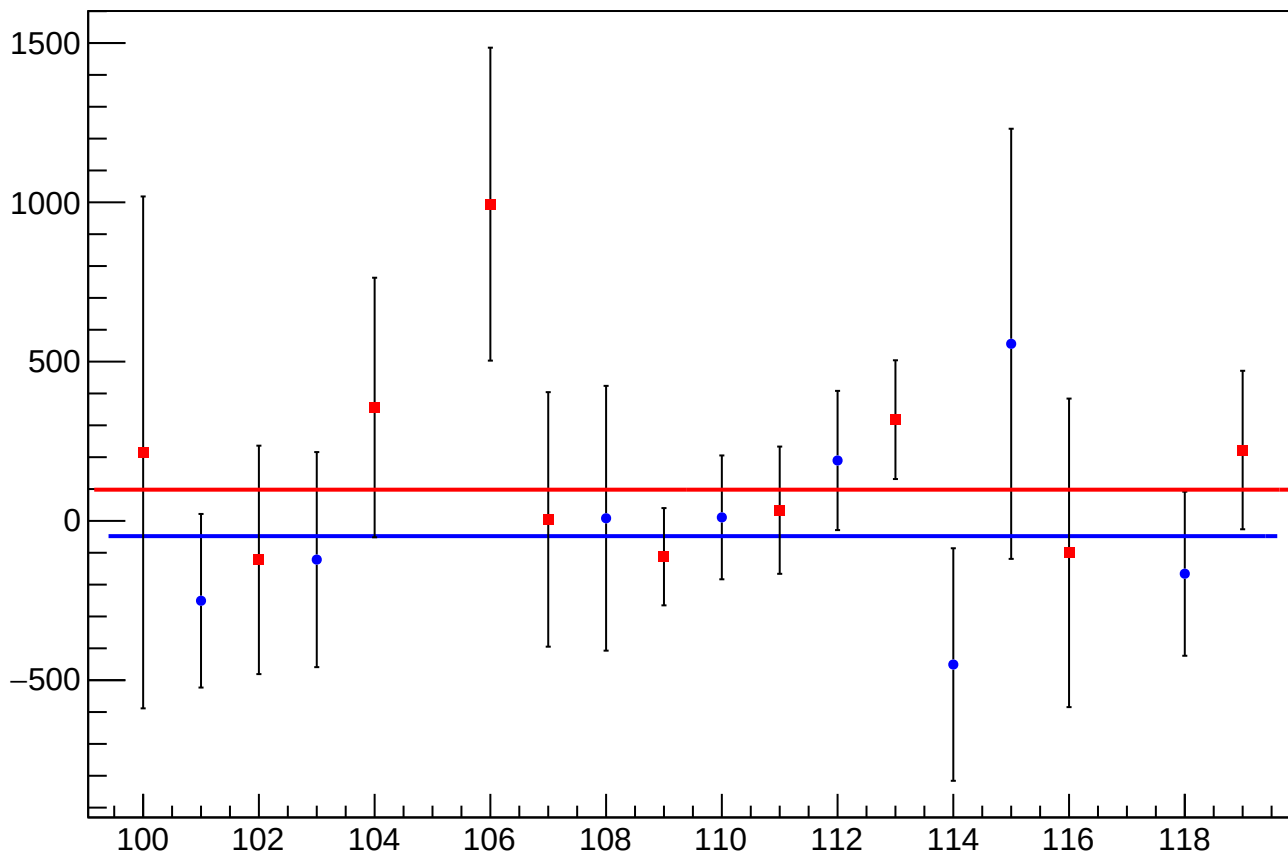
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.823+/-0.006  $\chi^2/\text{NDF}$ : 21400.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_mean vs Slug



Right In: -47.827+/-99.885  $\chi^2/\text{NDF}$ : 4.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 98.008+/-83.634  $\chi^2/\text{NDF}$ : 8.0/9

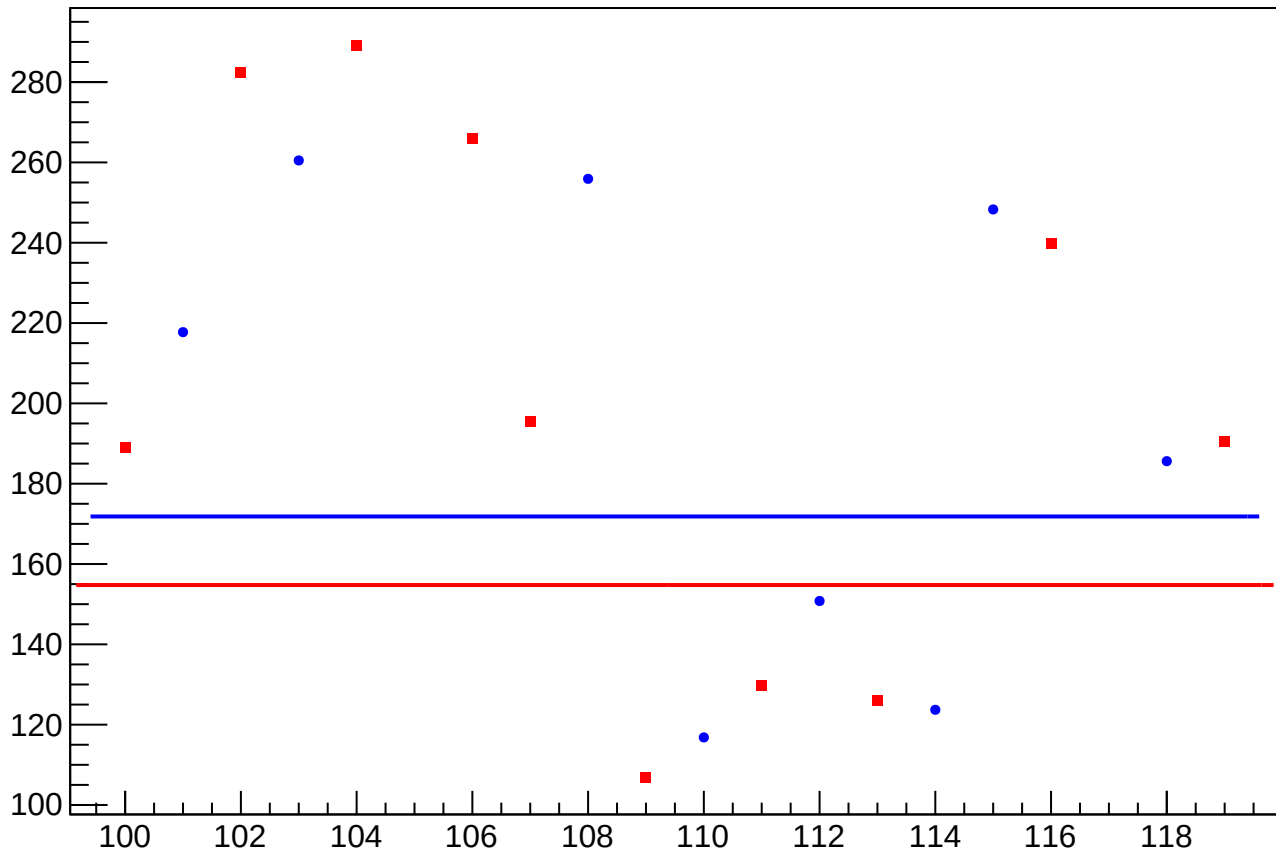
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.904+/-64.124  $\chi^2/\text{NDF}$ : 13.4/17

- 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: 171.839 $\pm$ 0.071  $\chi^2$ /NDF: 521461.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 154.770 $\pm$ 0.059  $\chi^2$ /NDF: 976180.1/9

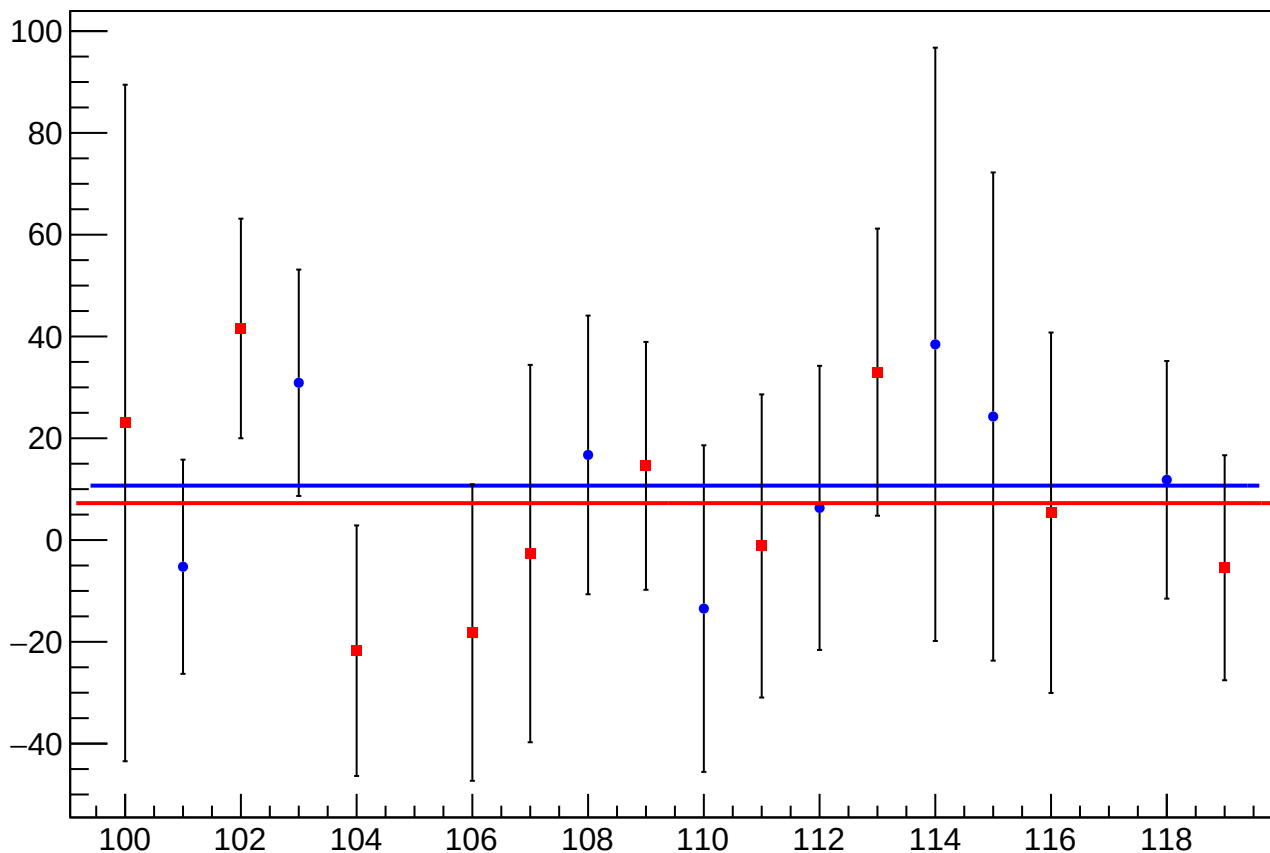
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 161.805 $\pm$ 0.045  $\chi^2$ /NDF: 1531977.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_mean vs Slug



Right In: 10.694 $\pm$ 9.791  $\chi^2$ /NDF: 2.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7.254 $\pm$ 8.823  $\chi^2$ /NDF: 6.1/9

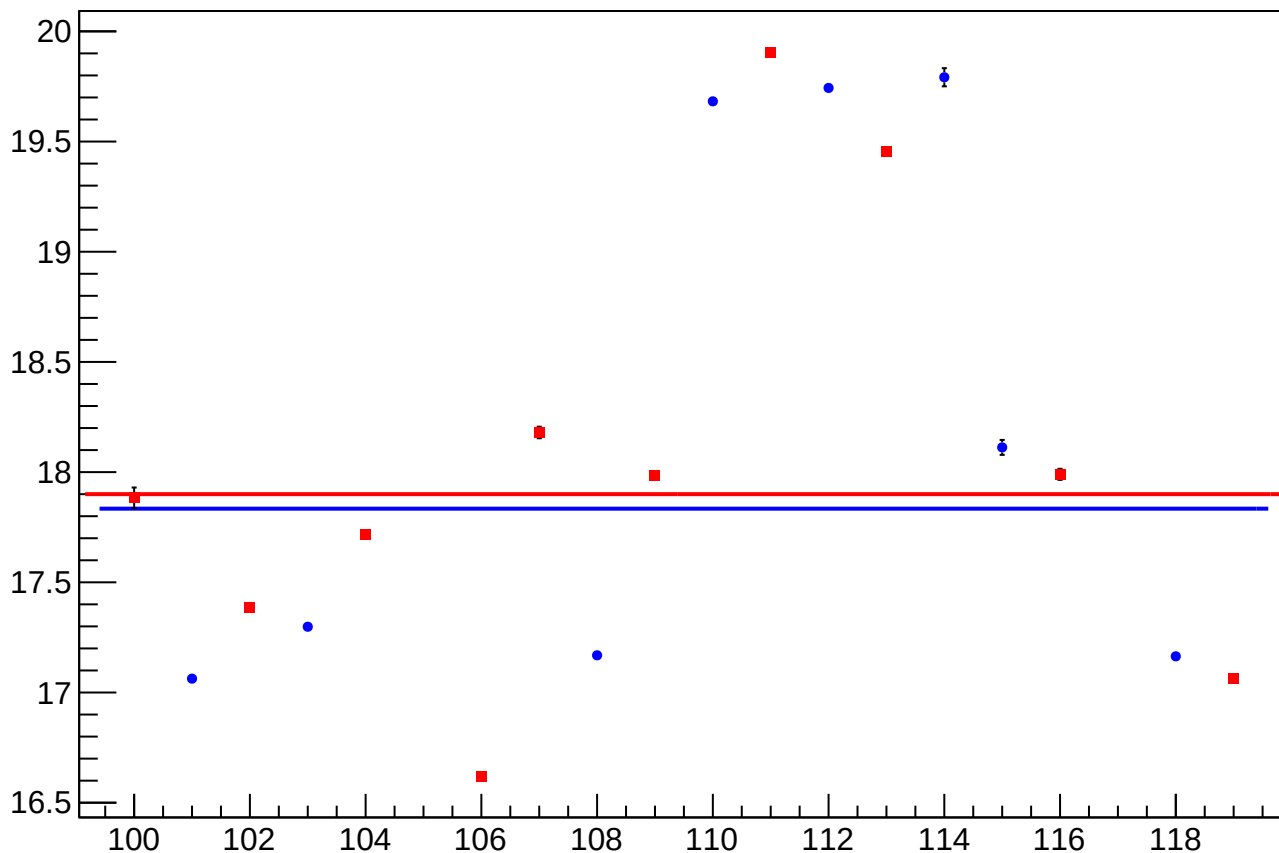
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8.795 $\pm$ 6.554  $\chi^2$ /NDF: 8.6/17

- 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: 17.834+/-0.007  $\chi^2/\text{NDF}$ : 24986.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.900+/-0.006  $\chi^2/\text{NDF}$ : 23269.4/9

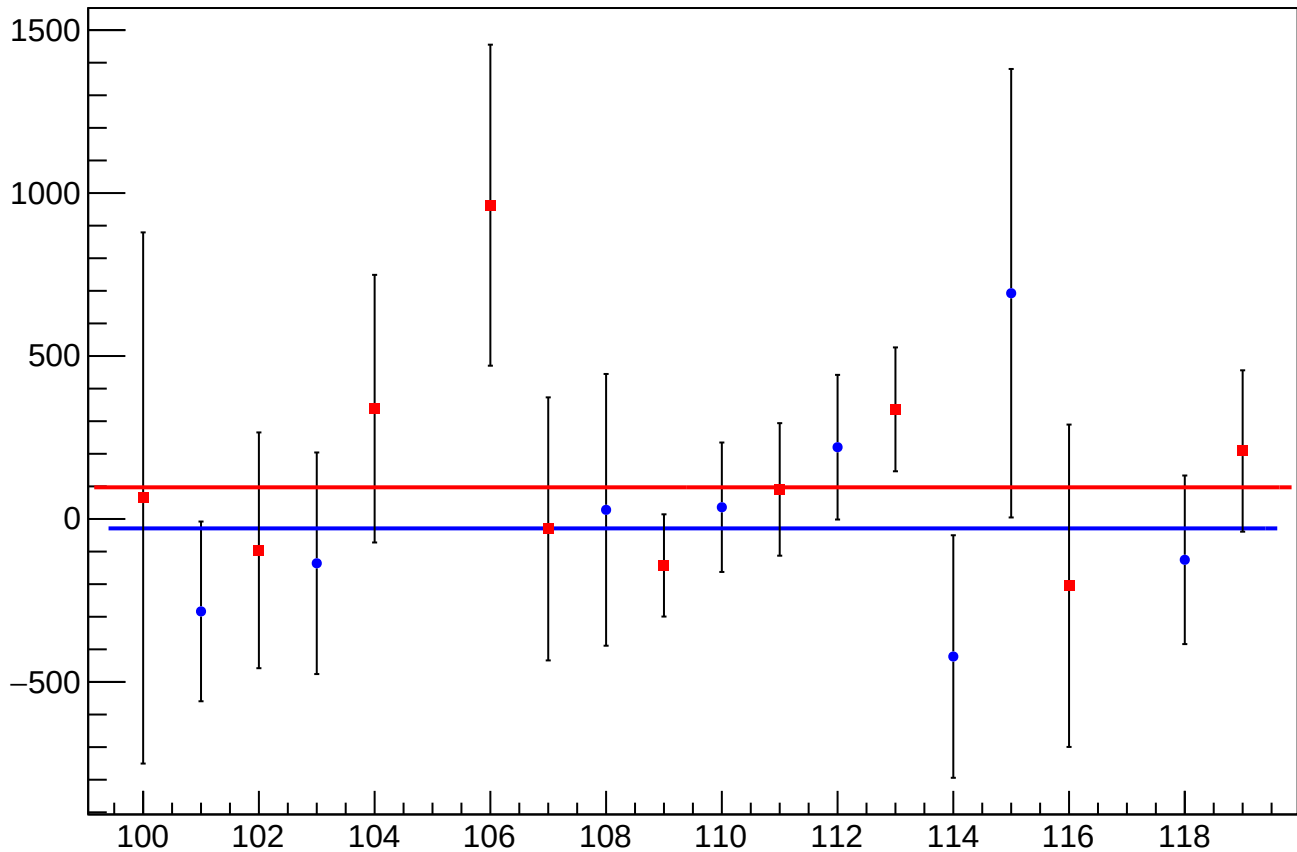
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.871+/-0.005  $\chi^2/\text{NDF}$ : 48306.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_mean vs Slug



Right In: -28.871+/-101.266  $\chi^2/\text{NDF}$ : 4.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 97.153+/-85.043  $\chi^2/\text{NDF}$ : 8.3/9

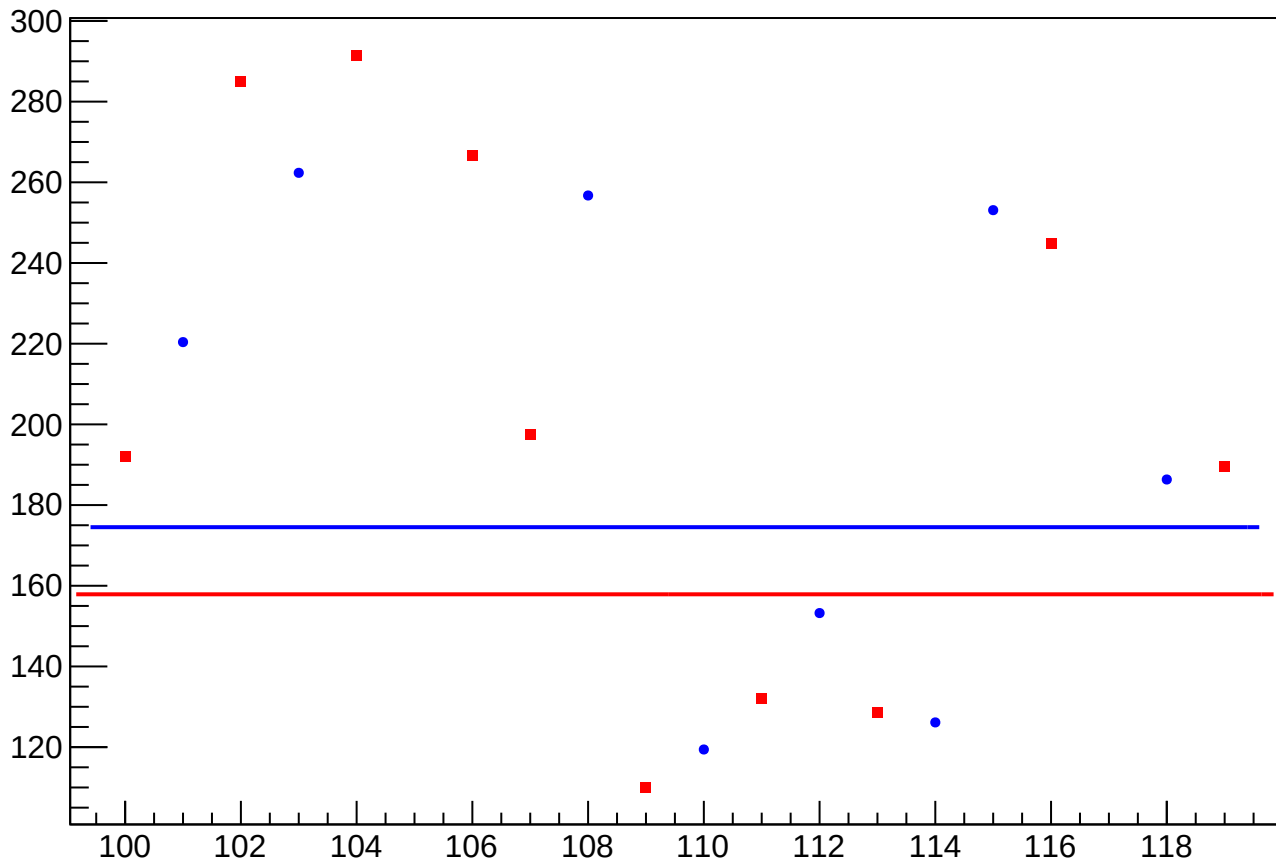
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 45.032+/-65.124  $\chi^2/\text{NDF}$ : 13.9/17

- 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: 174.520 $\pm$ 0.072  $\chi^2$ /NDF: 503165.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 157.882 $\pm$ 0.060  $\chi^2$ /NDF: 938865.1/9

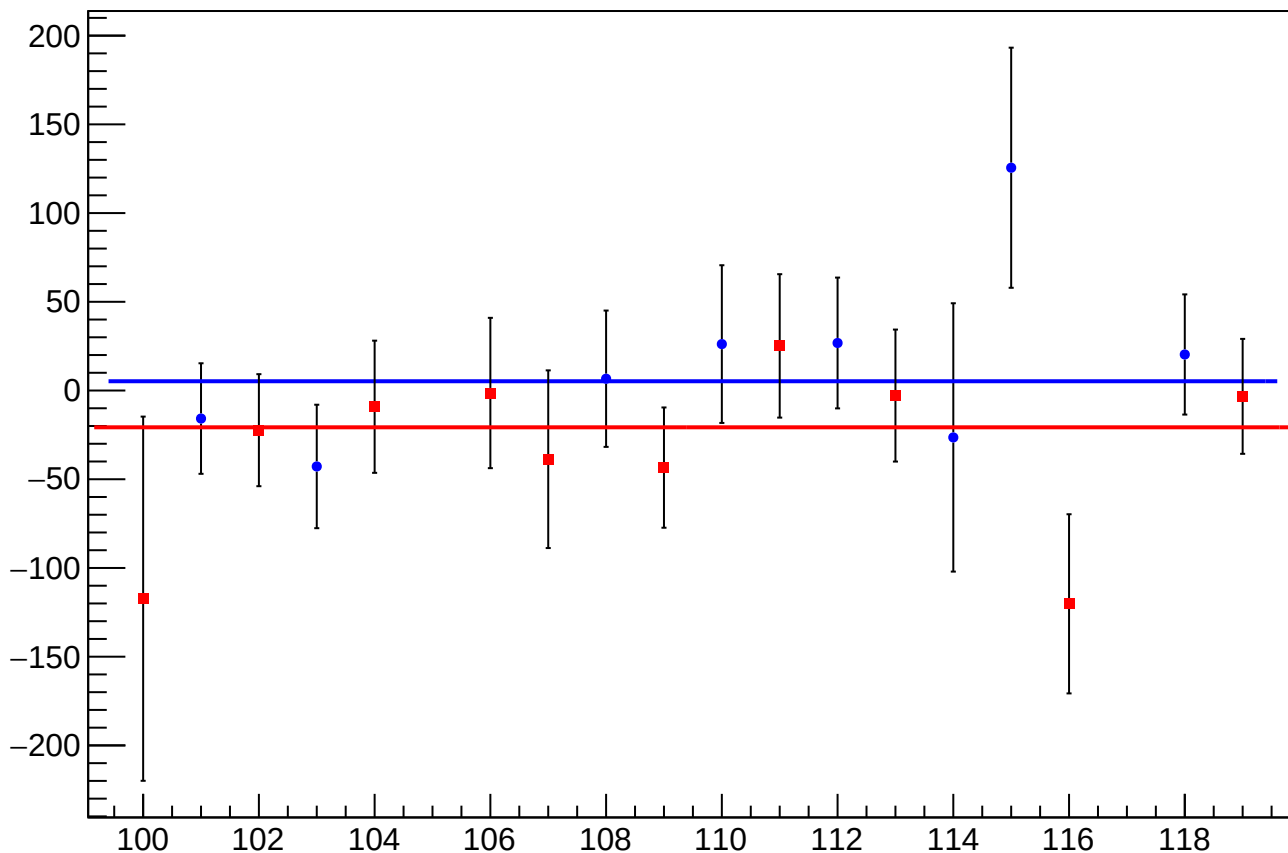
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 164.764 $\pm$ 0.046  $\chi^2$ /NDF: 1473690.5/17

- 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: 5.229+/-14.083  $\chi^2$ /NDF: 6.5/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -20.729+/-12.572  $\chi^2$ /NDF: 7.5/9

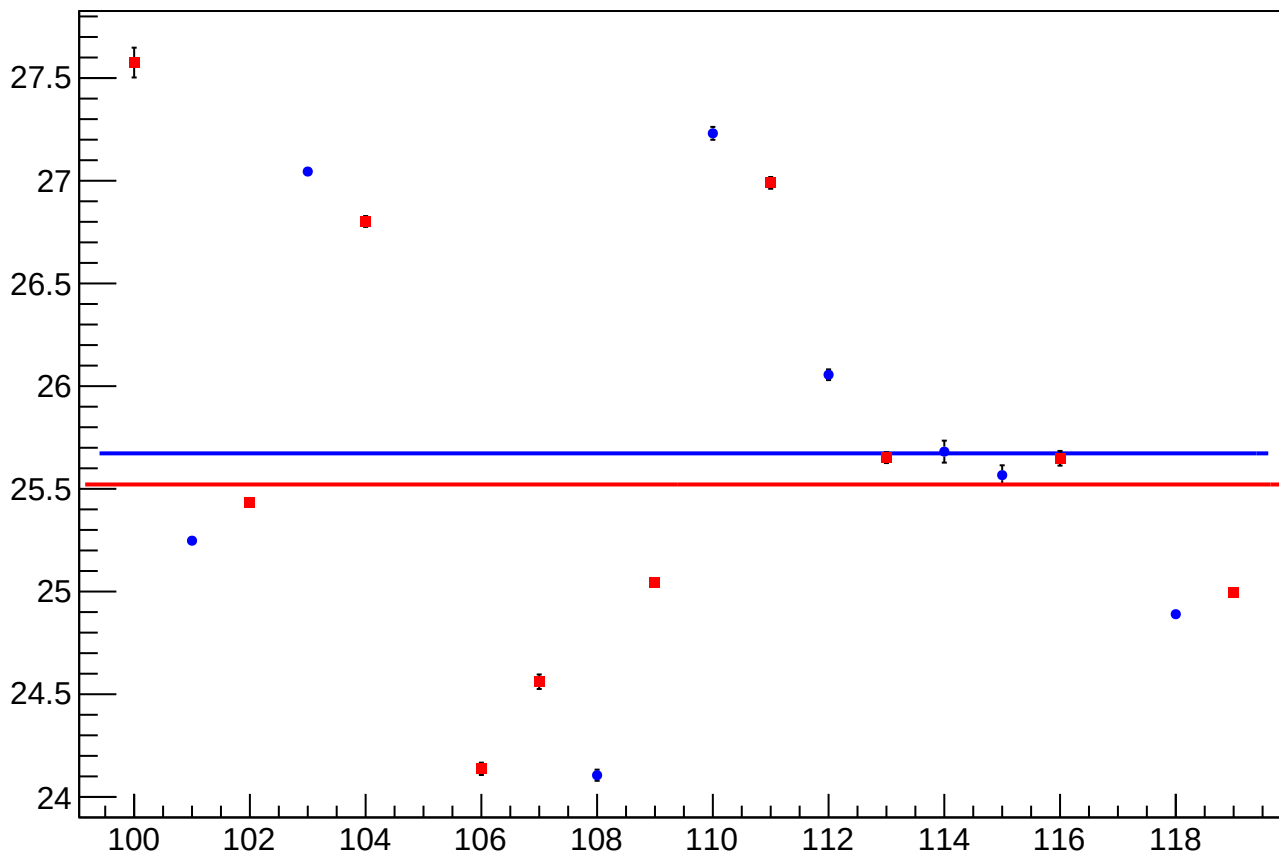
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -9.217+/-9.378  $\chi^2$ /NDF: 15.8/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 25.673+/-0.010  $\chi^2/\text{NDF}$ : 10560.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.521+/-0.009  $\chi^2/\text{NDF}$ : 9657.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

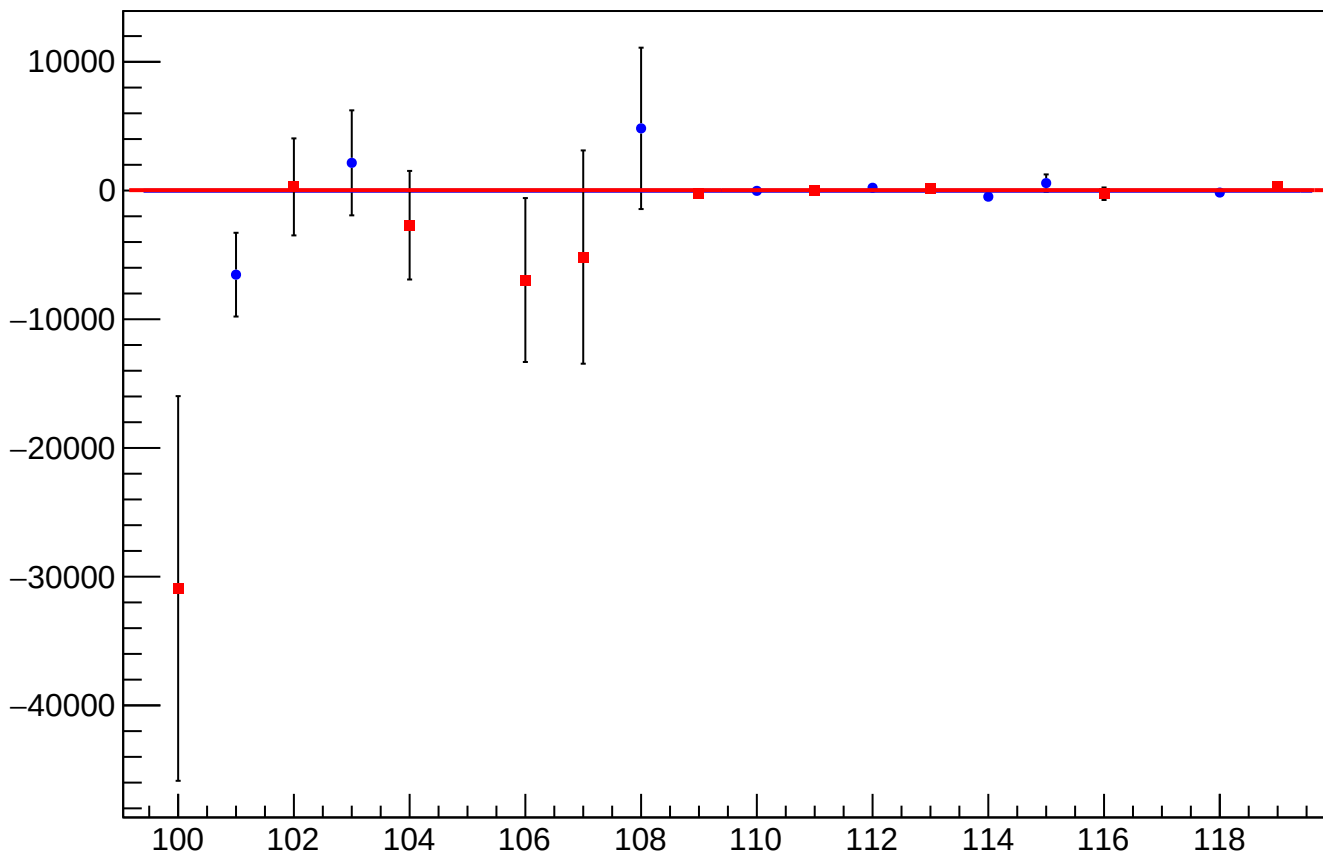
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.588+/-0.007  $\chi^2/\text{NDF}$ : 20346.8/17

- 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: -15.166+/-117.909  $\chi^2/\text{NDF}$ : 8.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30.914+/-101.934  $\chi^2/\text{NDF}$ : 9.3/9

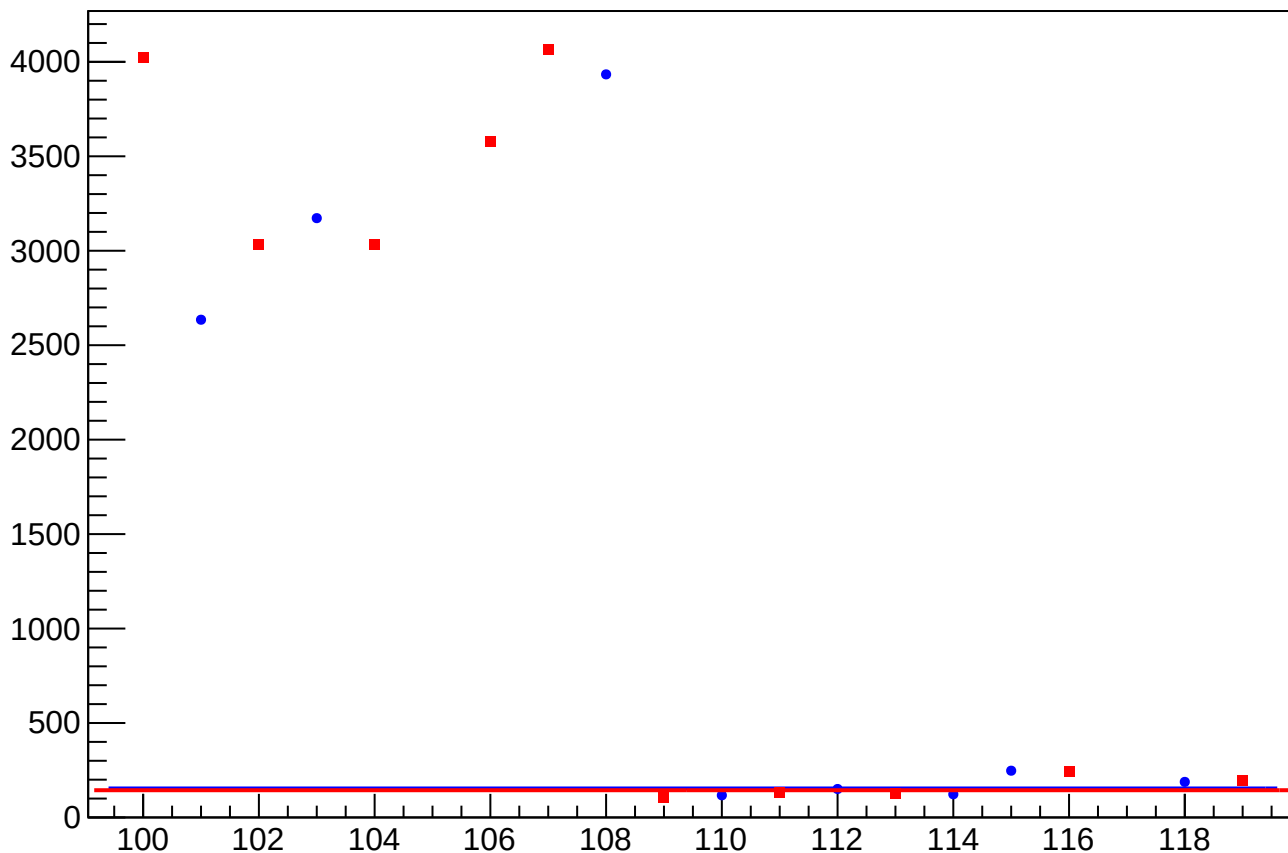
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11.205+/-77.112  $\chi^2/\text{NDF}$ : 18.1/17

- 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: 153.374+/-0.083  $\chi^2/\text{NDF}$ : 3143519.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 144.168+/-0.072  $\chi^2/\text{NDF}$ : 3533249.3/9

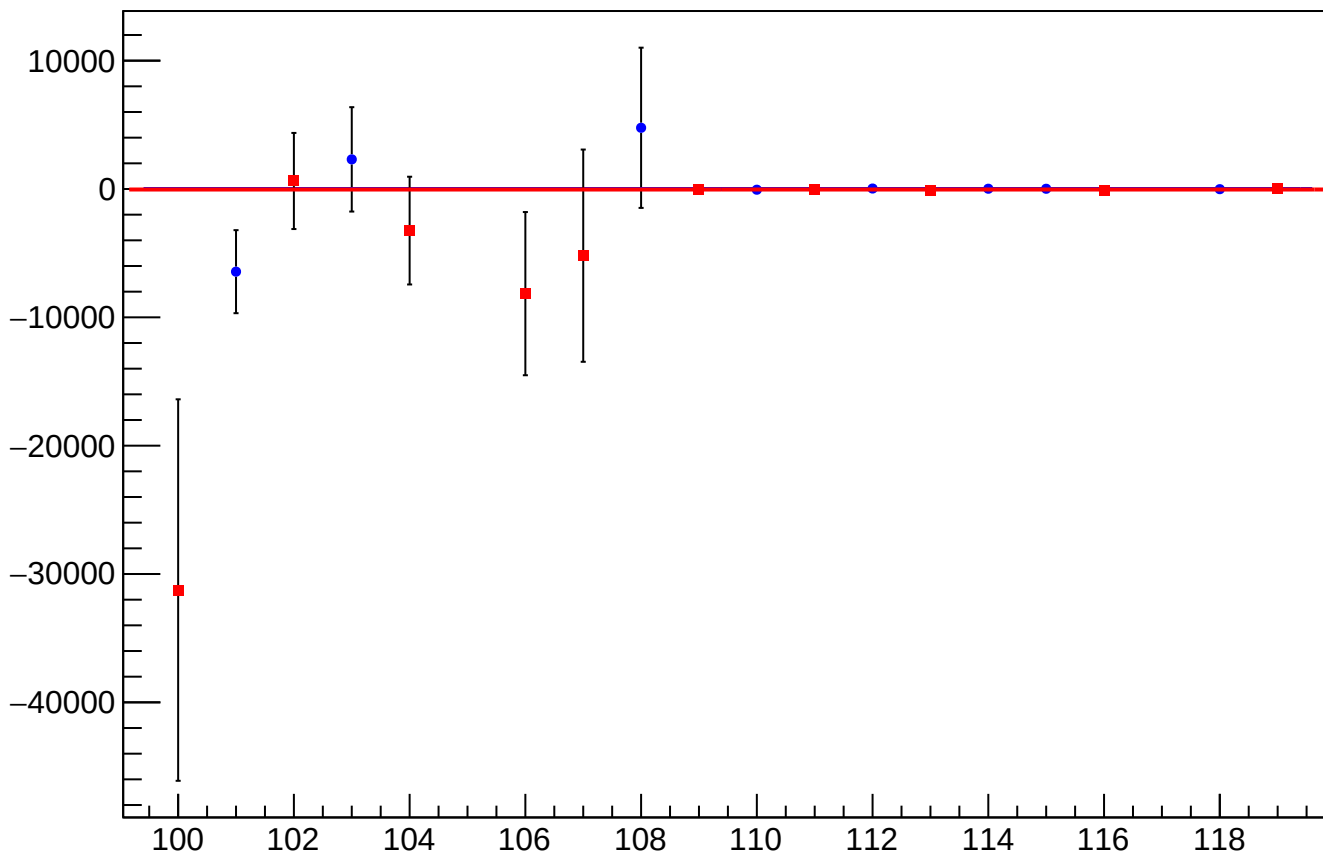
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 148.106+/-0.055  $\chi^2/\text{NDF}$ : 6683744.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_mean vs Slug



Right In: -2.611+/-21.334  $\chi^2/\text{NDF}$ : 7.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -39.413+/-19.592  $\chi^2/\text{NDF}$ : 18.5/9

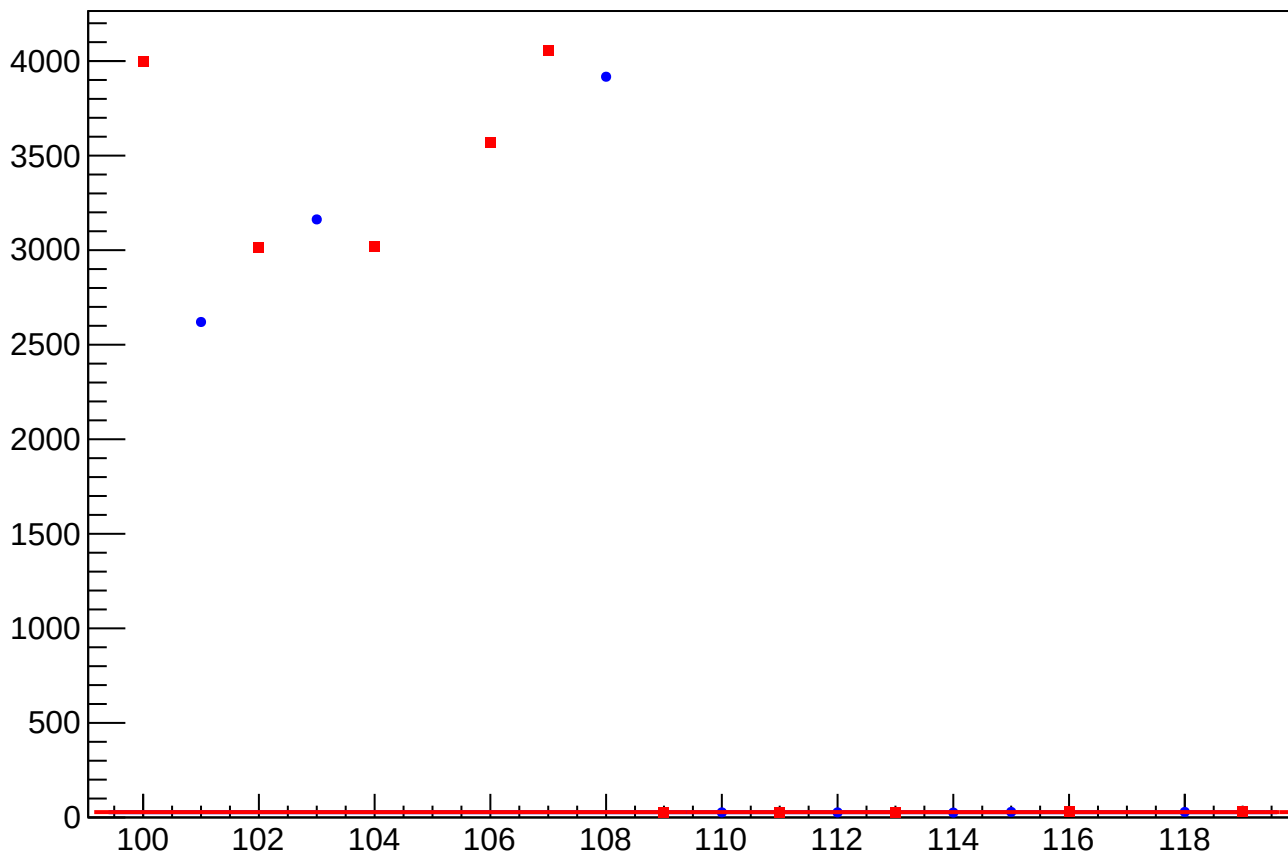
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -22.576+/-14.430  $\chi^2/\text{NDF}$ : 27.7/17

- 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: 27.810 $\pm$ 0.015  $\chi^2$ /NDF: 3256002.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28.190 $\pm$ 0.014  $\chi^2$ /NDF: 3543829.3/9

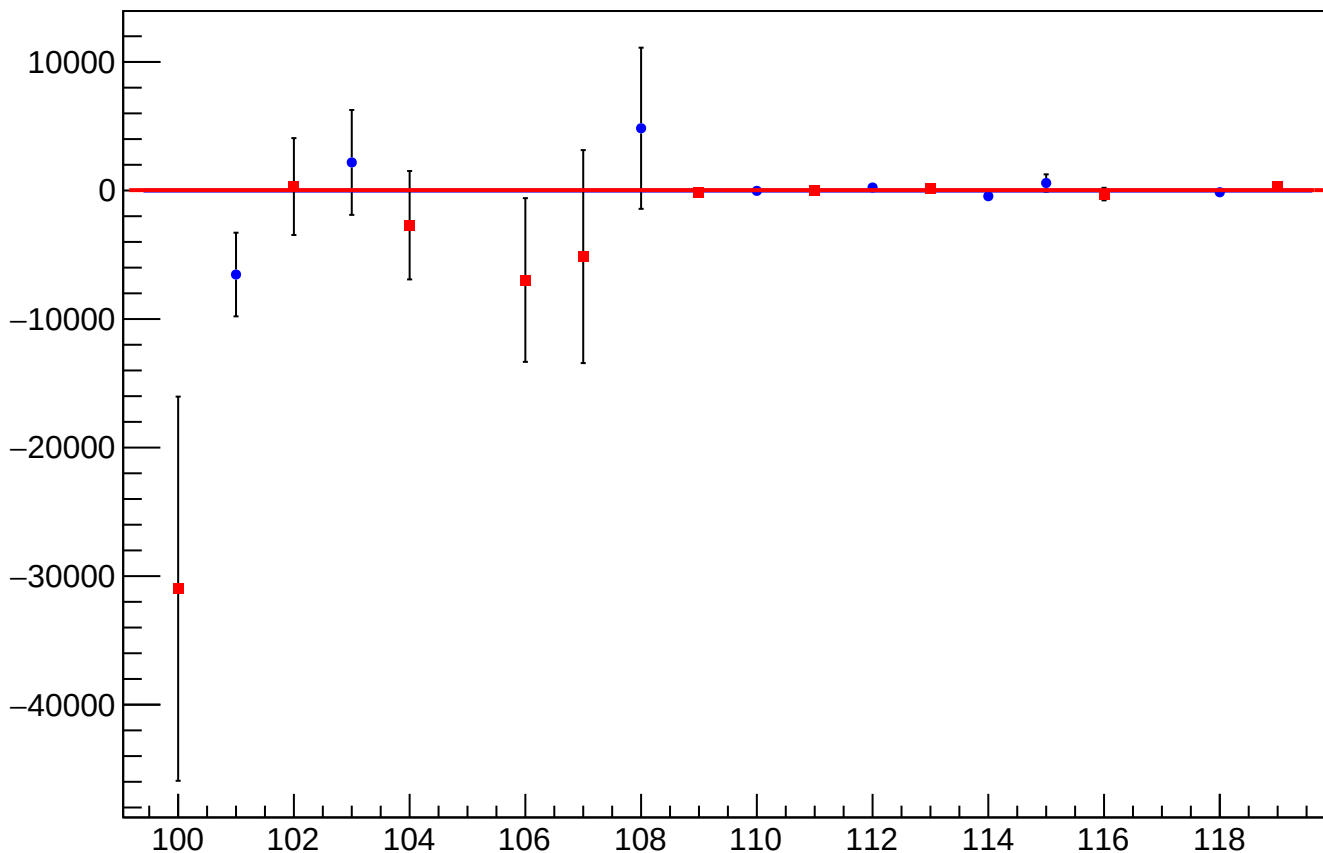
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28.016 $\pm$ 0.010  $\chi^2$ /NDF: 6800175.5/17

- 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: -4.441+/-117.407  $\chi^2/\text{NDF}$ : 8.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.873+/-101.481  $\chi^2/\text{NDF}$ : 9.3/9

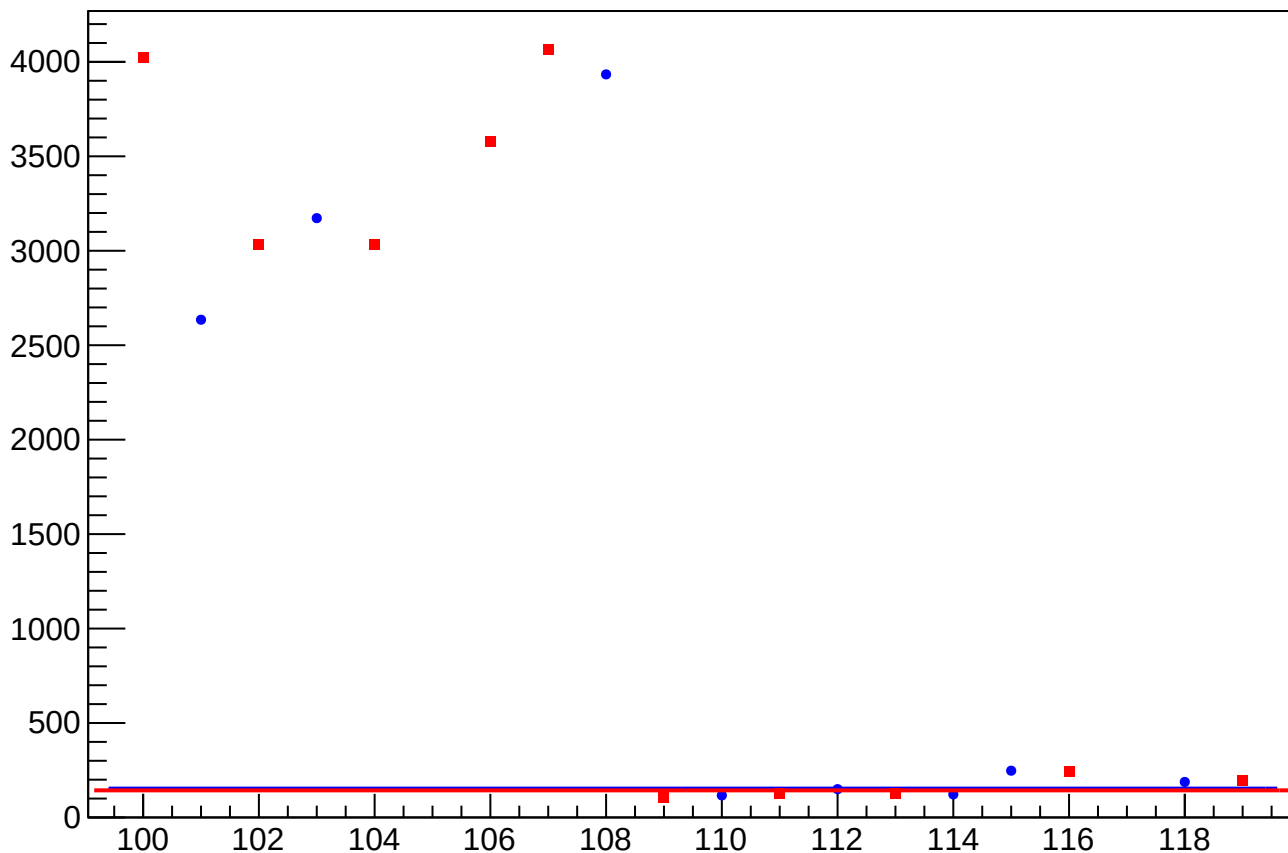
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14.627+/-76.776  $\chi^2/\text{NDF}$ : 17.9/17

- 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: 152.636 $\pm$ 0.083  $\chi^2$ /NDF: 3147139.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 143.431 $\pm$ 0.072  $\chi^2$ /NDF: 3538251.5/9

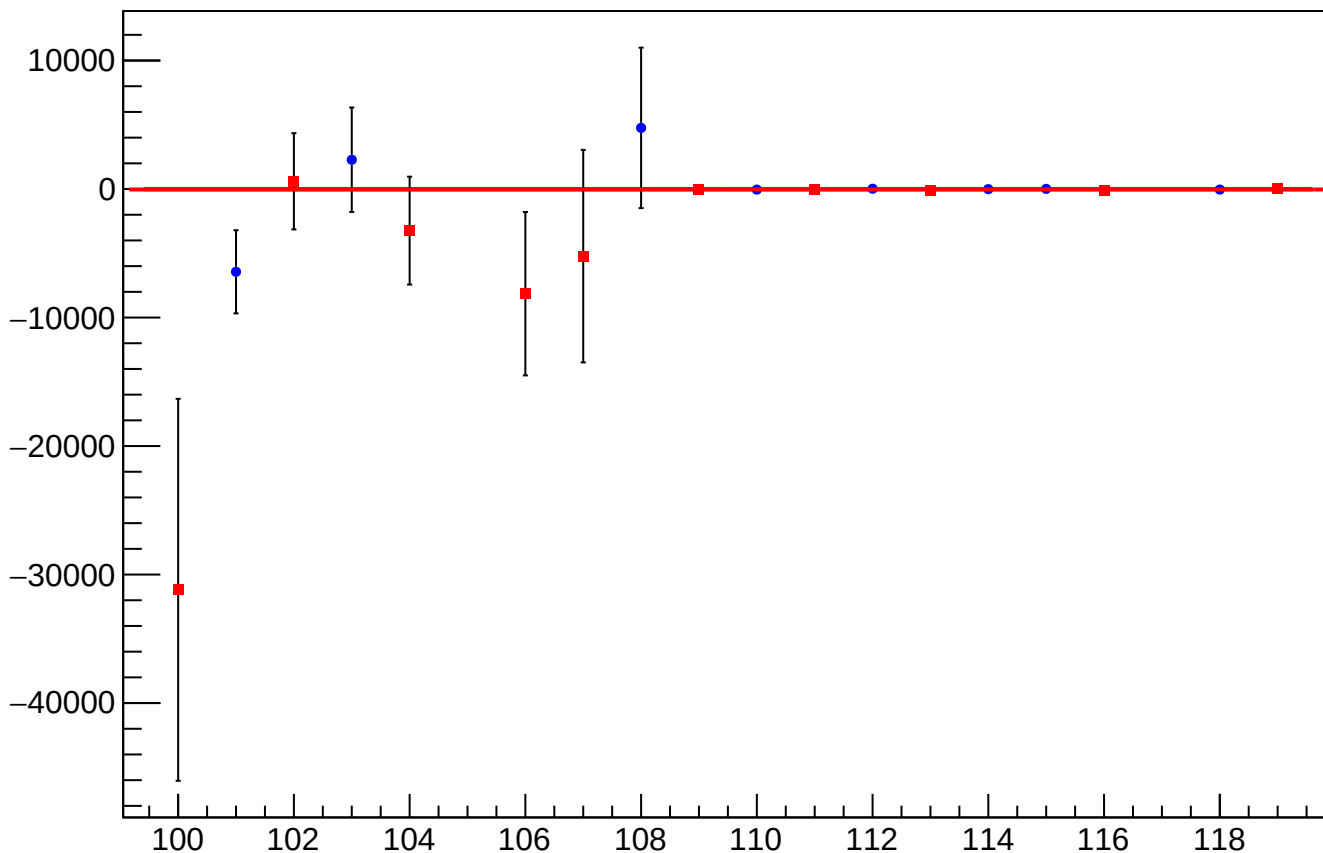
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 147.367 $\pm$ 0.054  $\chi^2$ /NDF: 6692428.6/17

- 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: -13.866 $\pm$ 21.419  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -34.595 $\pm$ 19.721  $\chi^2$ /NDF: 15.8/9

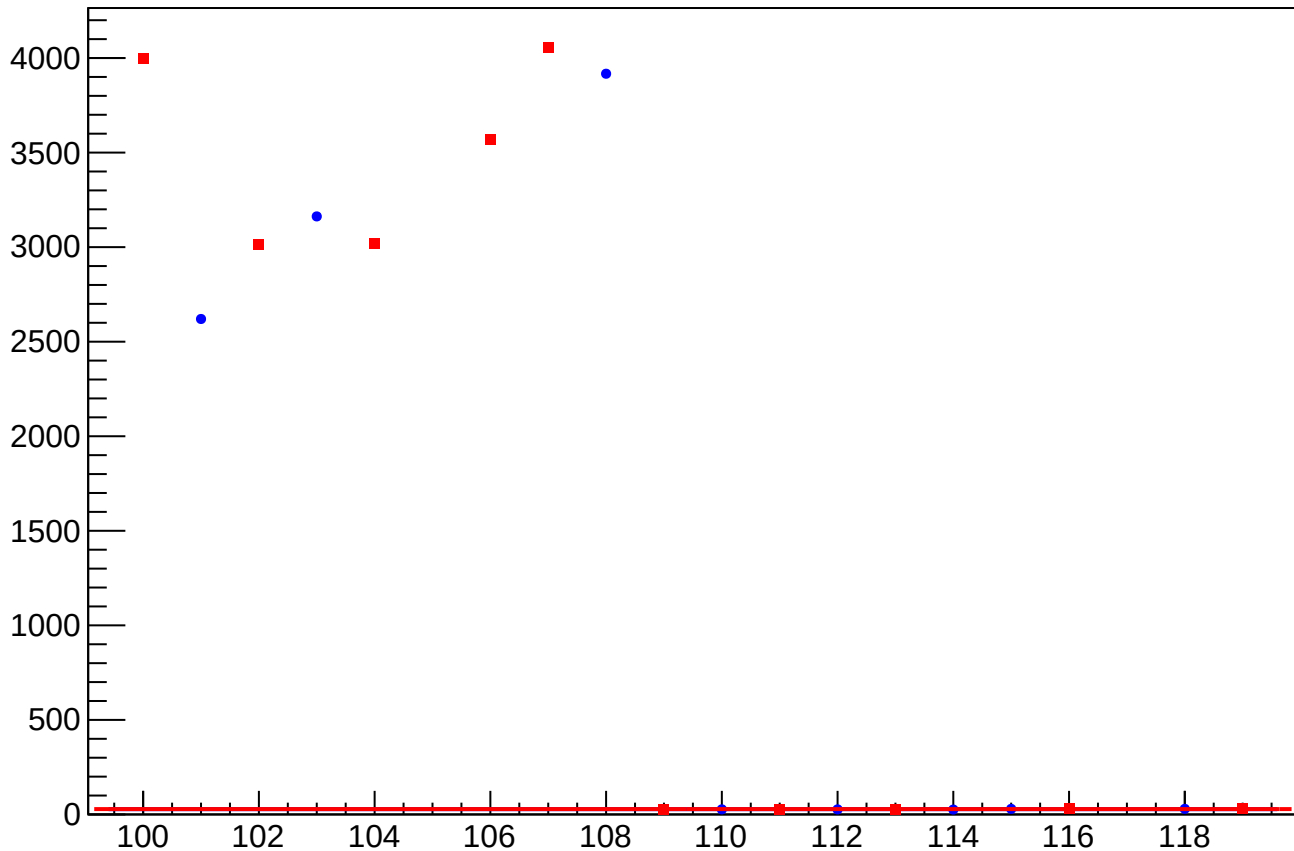
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -25.085 $\pm$ 14.508  $\chi^2$ /NDF: 23.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 27.919 $\pm$ 0.015  $\chi^2$ /NDF: 3256690.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28.369 $\pm$ 0.014  $\chi^2$ /NDF: 3545736.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

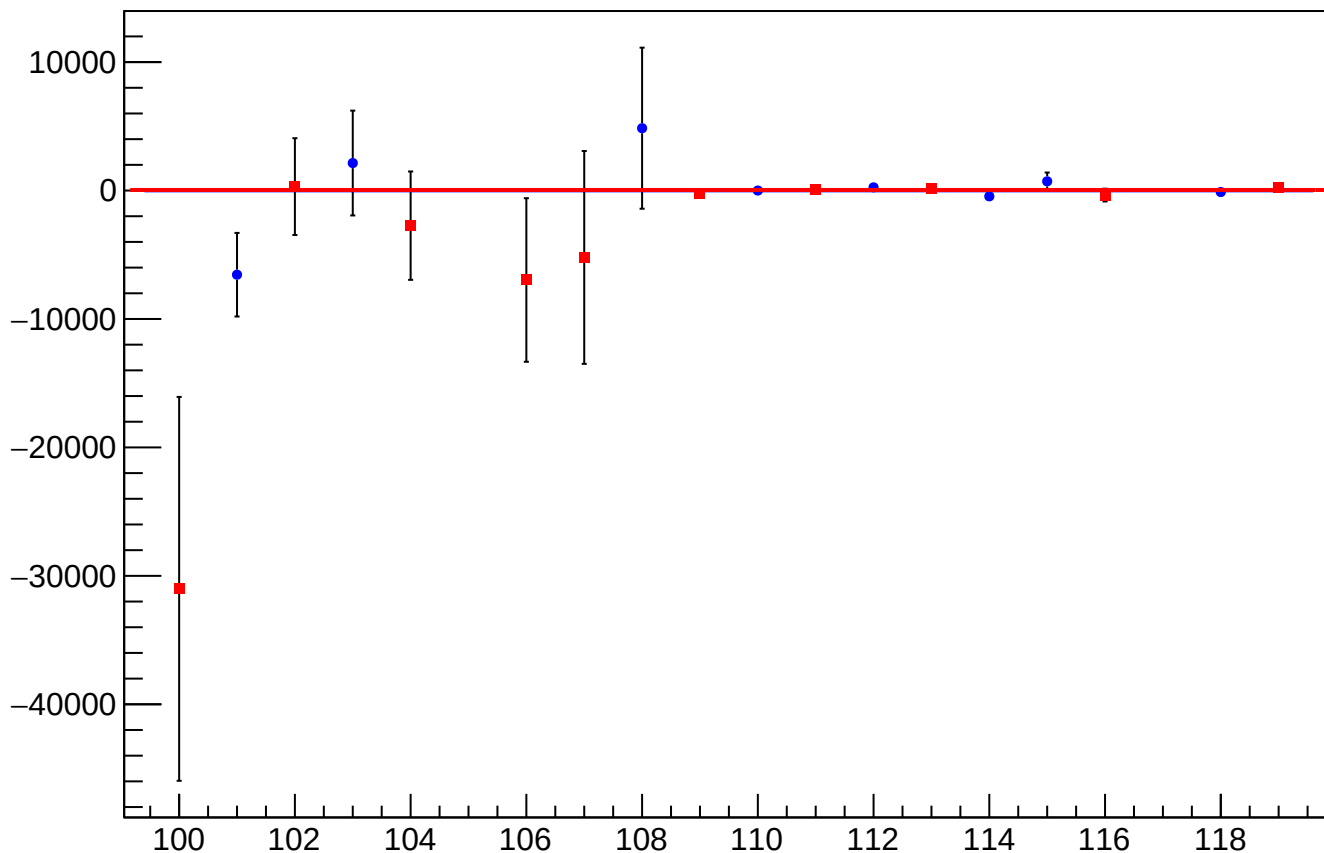
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28.162 $\pm$ 0.010  $\chi^2$ /NDF: 6802904.6/17

- 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: 16.850+/-119.577  $\chi^2/\text{NDF}$ : 9.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 44.466+/-103.394  $\chi^2/\text{NDF}$ : 9.6/9

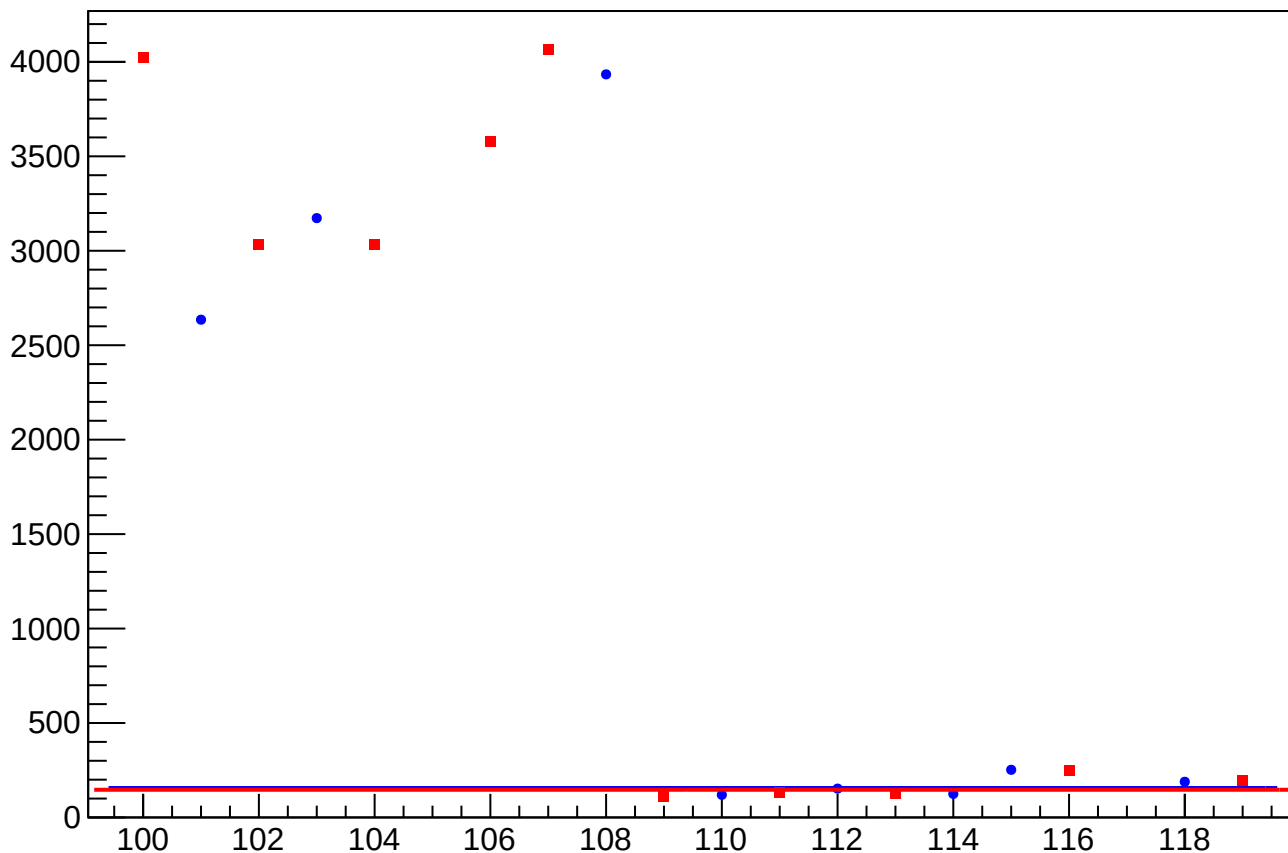
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.652+/-78.211  $\chi^2/\text{NDF}$ : 18.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_rms vs Slug



Right In: 155.817 $\pm$ 0.085  $\chi^2$ /NDF: 3132769.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 146.602 $\pm$ 0.073  $\chi^2$ /NDF: 3516788.3/9

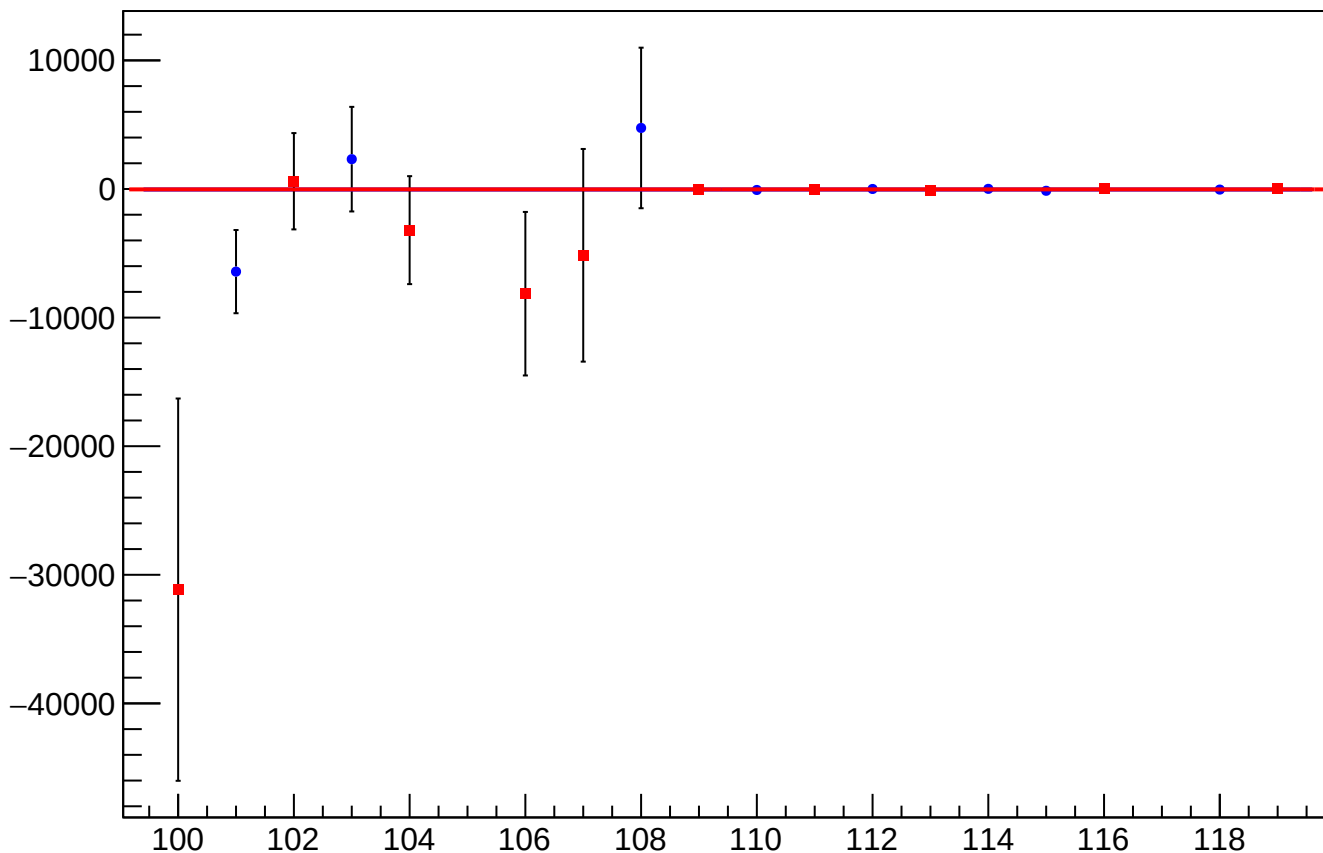
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 150.544 $\pm$ 0.055  $\chi^2$ /NDF: 6656352.8/17

- 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: -41.538 $\pm$ 26.236  $\chi^2$ /NDF: 7.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -30.000 $\pm$ 23.887  $\chi^2$ /NDF: 17.8/9

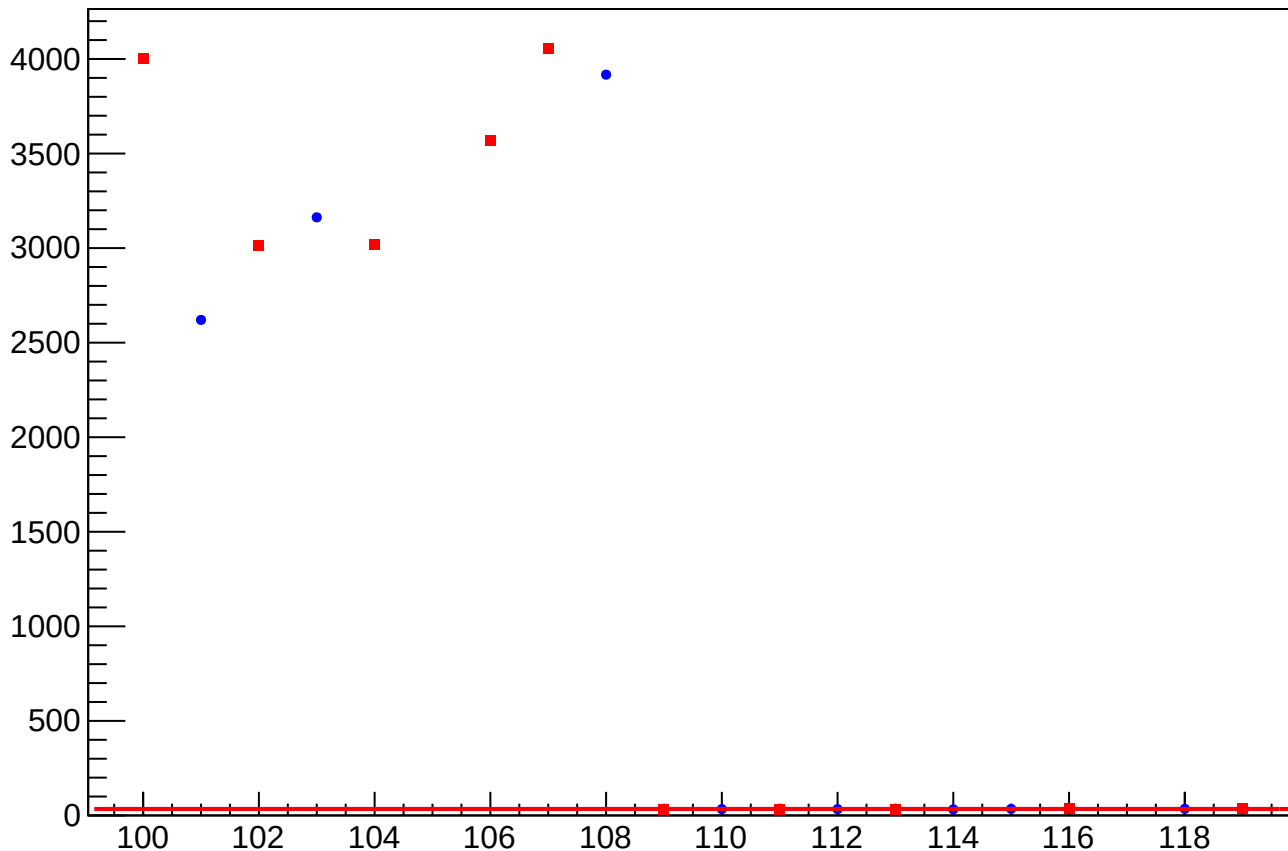
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -35.229 $\pm$ 17.663  $\chi^2$ /NDF: 25.4/17

- 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: 34.311+/-0.019  $\chi^2/\text{NDF}$ : 3237350.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 34.483+/-0.017  $\chi^2/\text{NDF}$ : 3519651.3/9

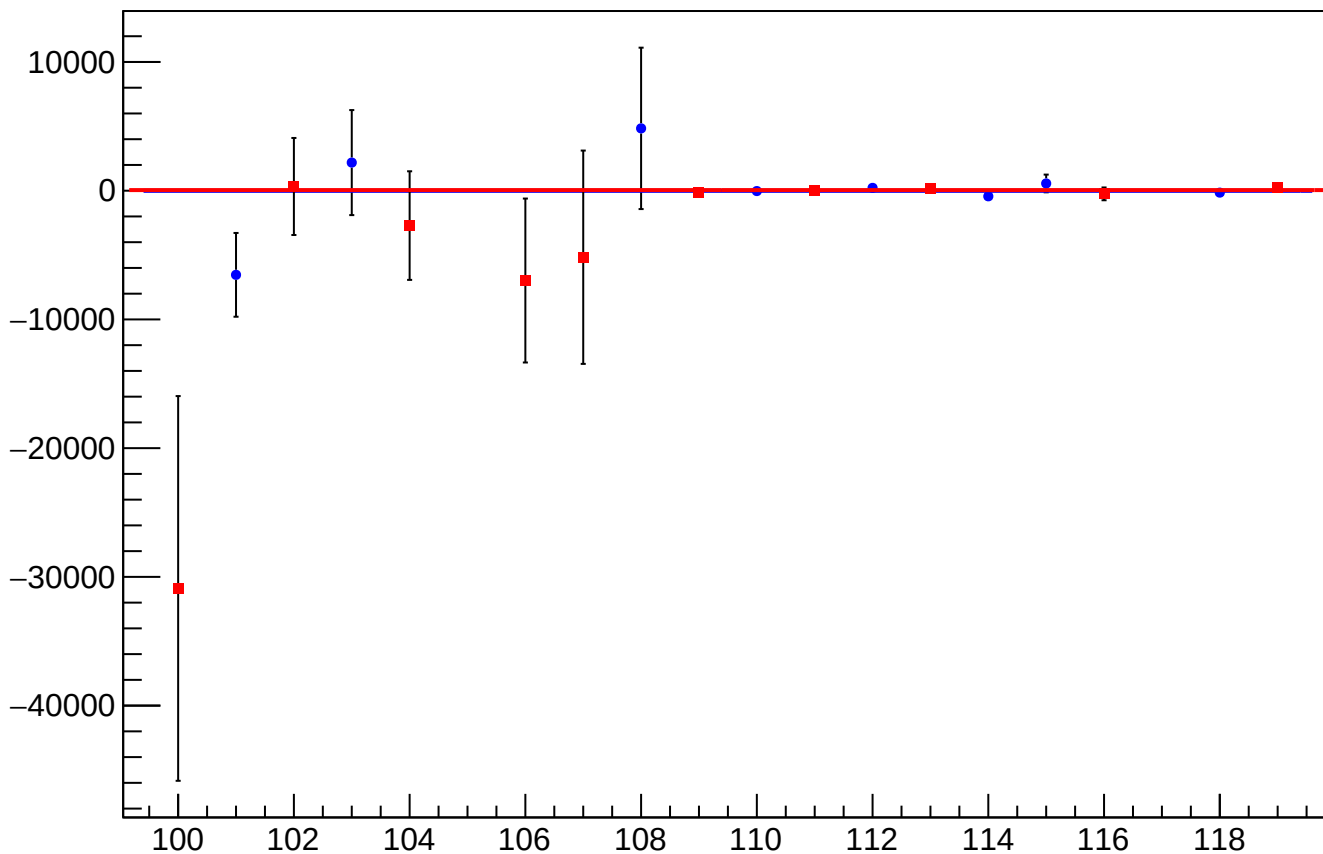
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.405+/-0.012  $\chi^2/\text{NDF}$ : 6757049.1/17

- 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:  $-10.516 \pm 118.437$   $\chi^2/\text{NDF}$ : 8.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $47.096 \pm 102.477$   $\chi^2/\text{NDF}$ : 9.2/9

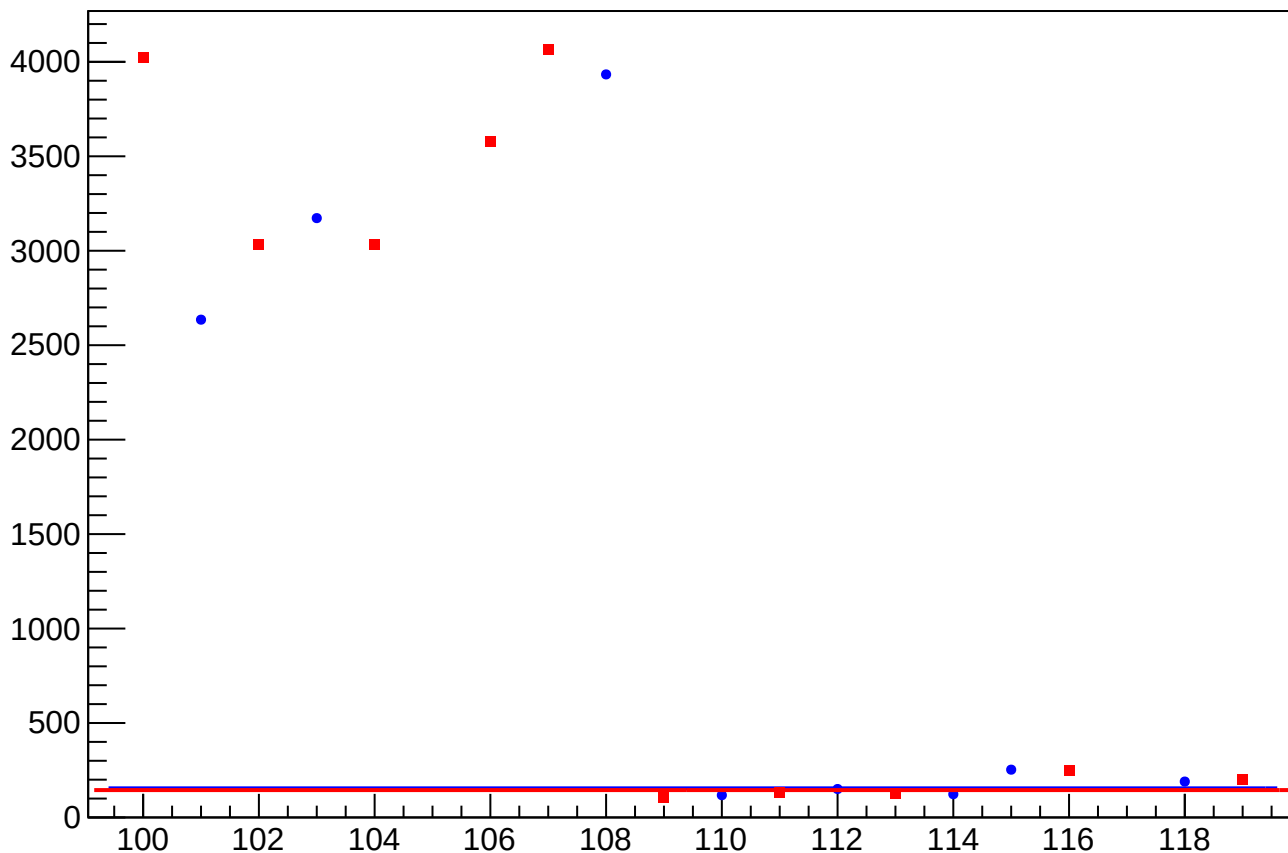
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $22.430 \pm 77.495$   $\chi^2/\text{NDF}$ : 17.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug



Right In: 154.040 $\pm$ 0.084  $\chi^2$ /NDF: 3145823.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 144.888 $\pm$ 0.072  $\chi^2$ /NDF: 3539009.5/9

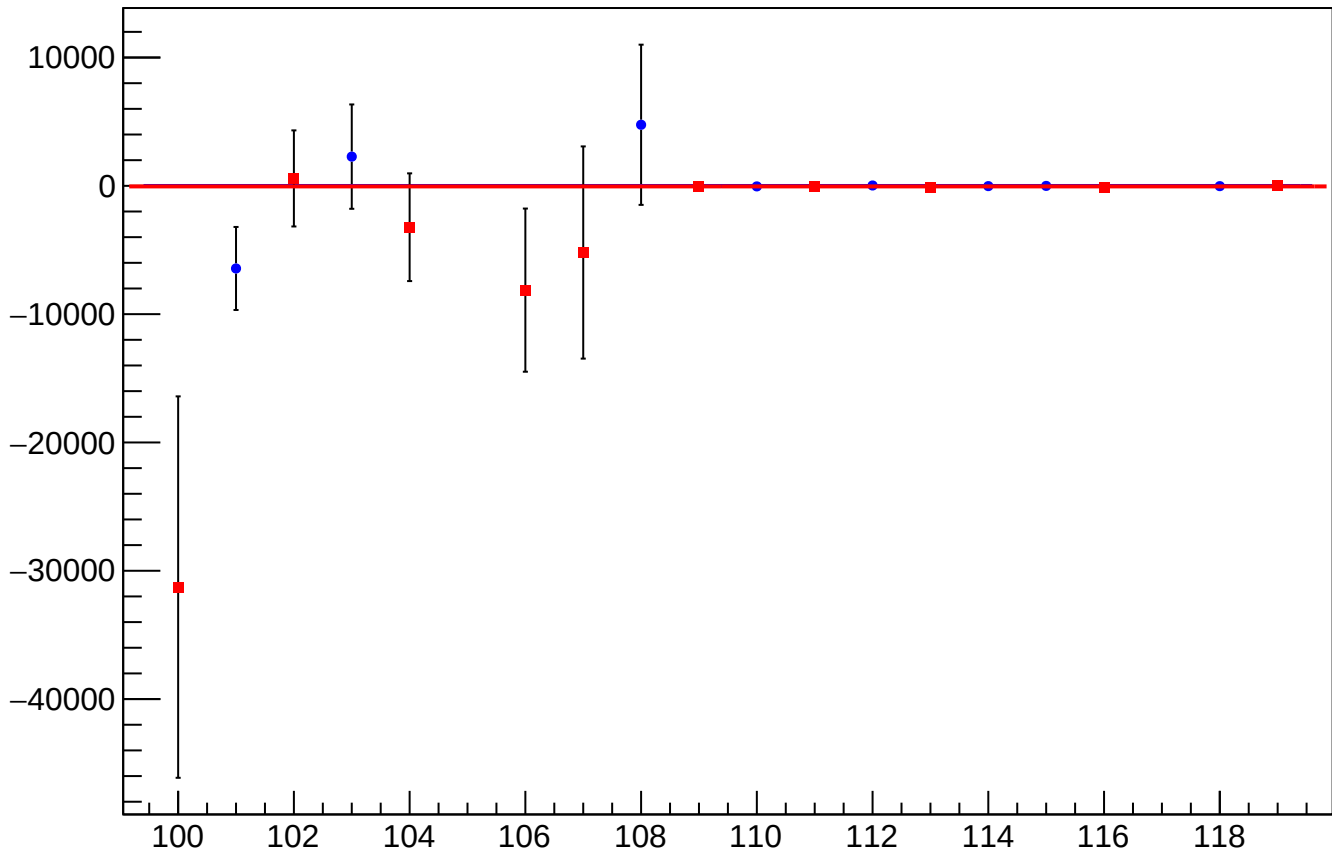
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 148.806 $\pm$ 0.055  $\chi^2$ /NDF: 6691662.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug



Right In: -11.150+/-24.309  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -44.374+/-22.092  $\chi^2/\text{NDF}$ : 19.6/9

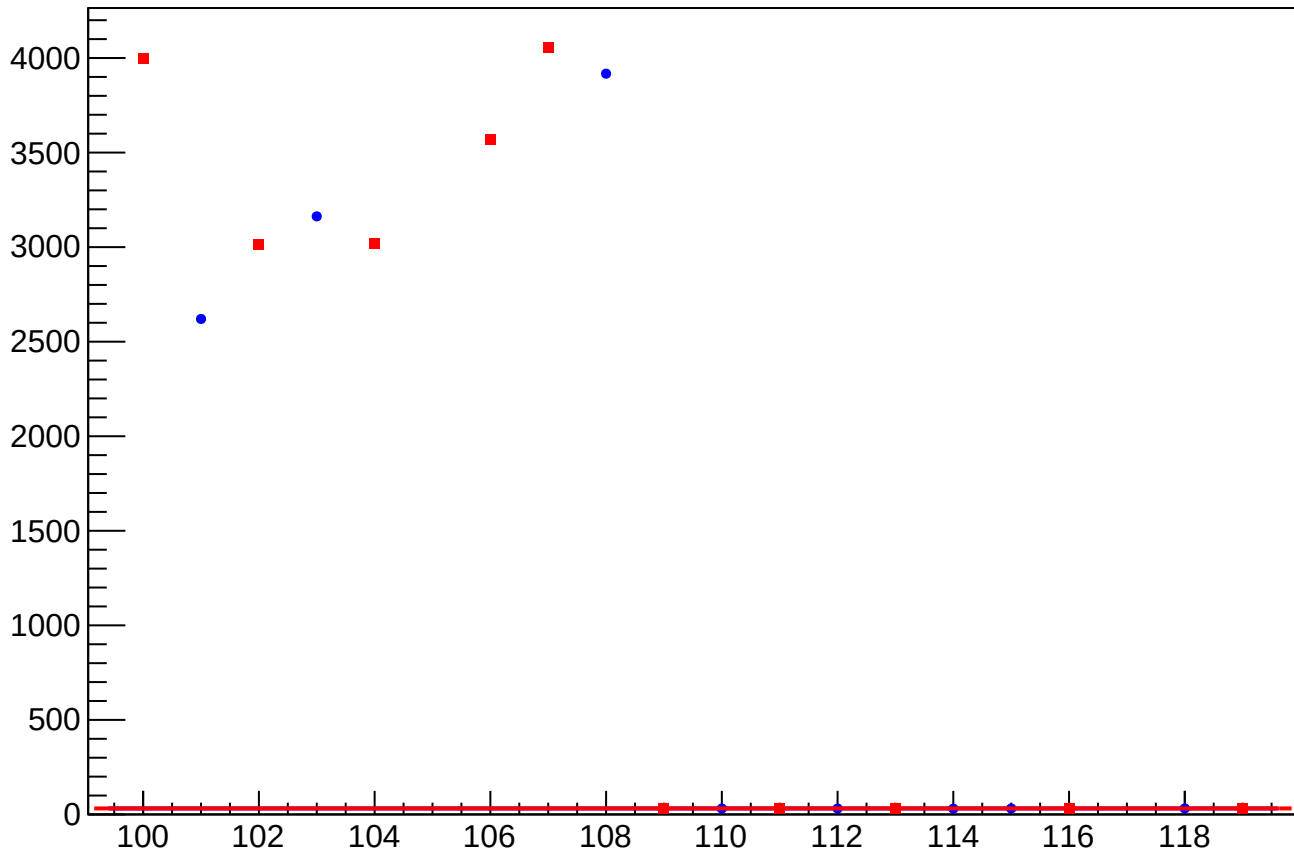
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -29.346+/-16.349  $\chi^2/\text{NDF}$ : 26.7/17

- 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: 31.771 $\pm$ 0.017  $\chi^2$ /NDF: 3241141.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 31.881 $\pm$ 0.016  $\chi^2$ /NDF: 3522127.8/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

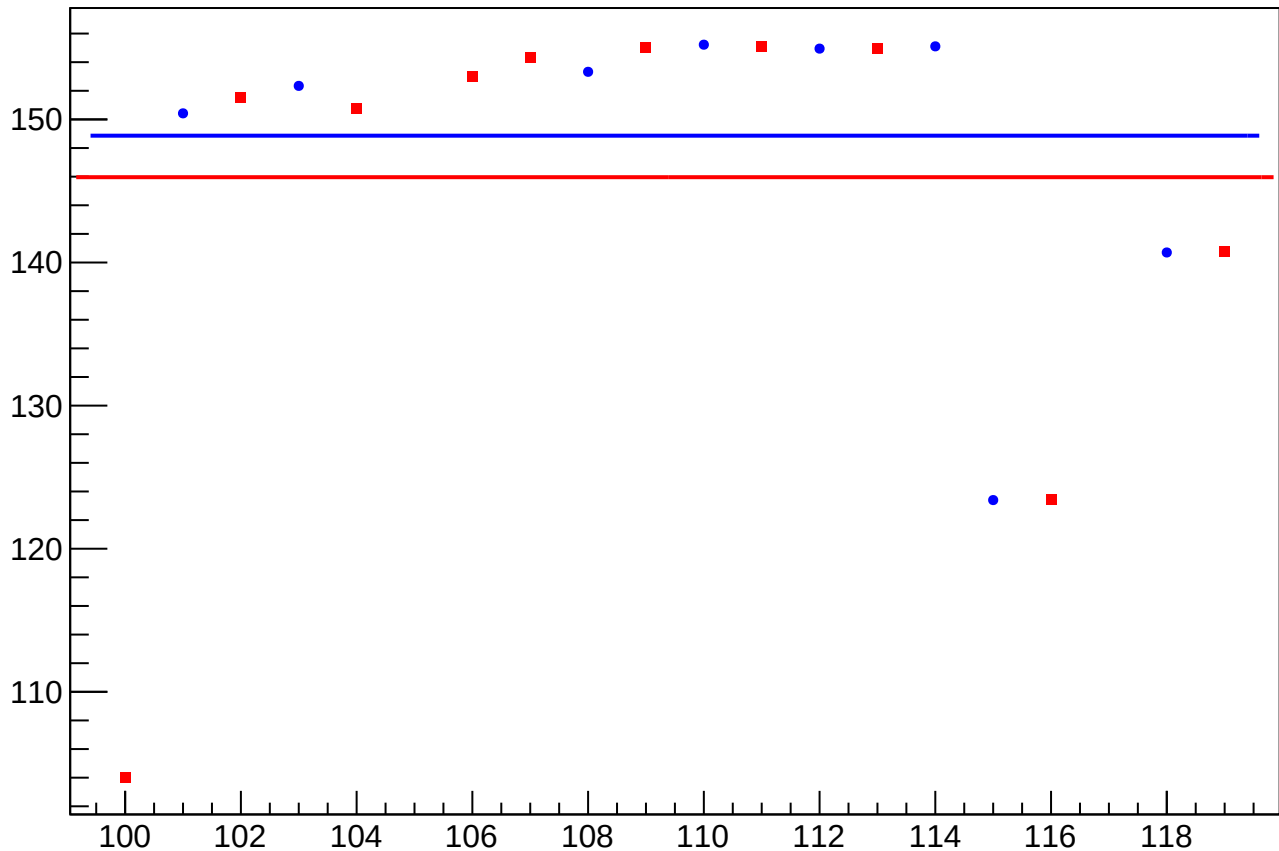
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.831 $\pm$ 0.012  $\chi^2$ /NDF: 6763291.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bcm\_target\_mean vs Slug



Right In: 148.864+/-0.000  $\chi^2/\text{NDF}$ : 1911711988.2/7

+ 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

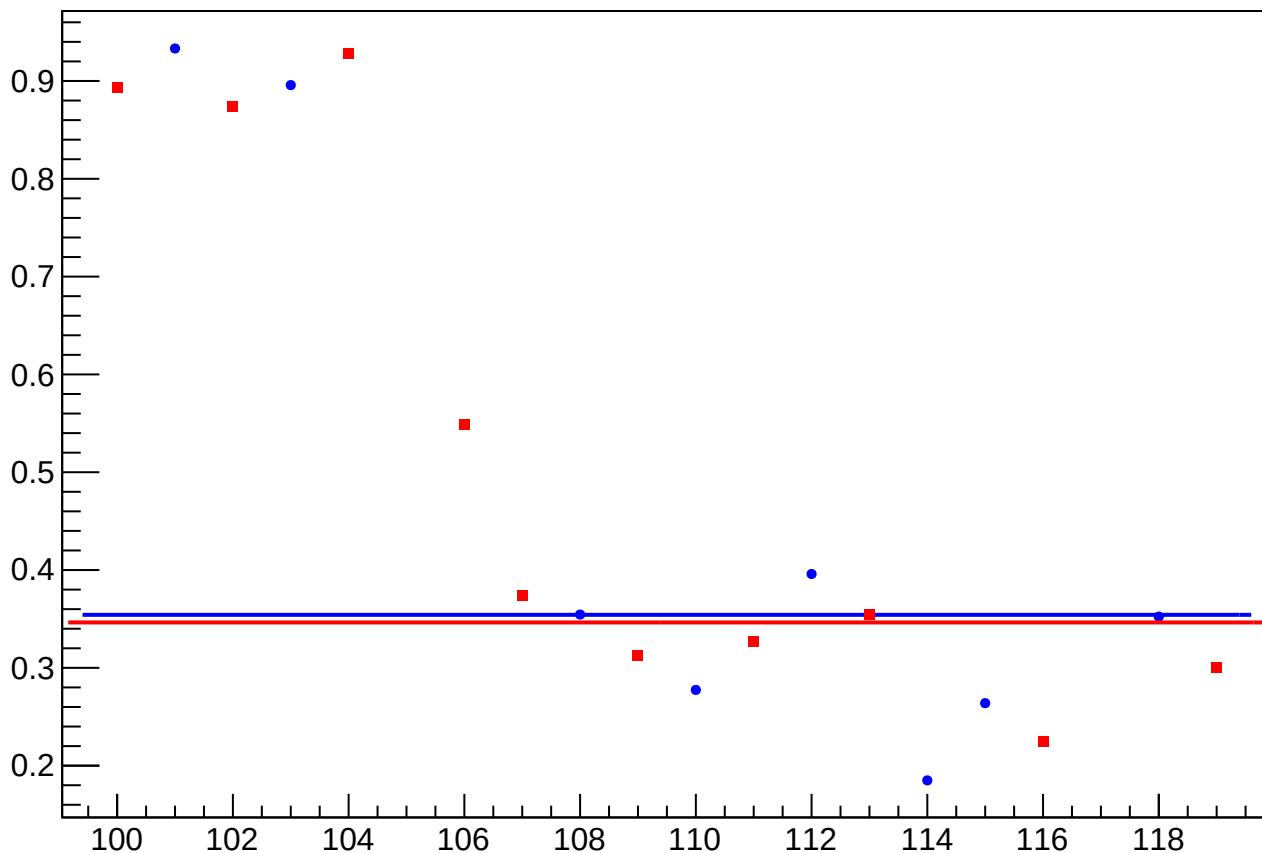
Right Out: 145.963+/-0.000  $\chi^2/\text{NDF}$ : 3899681892.2/9

All: 147.187+/-0.000  $\chi^2/\text{NDF}$ : 5906286803.8

- 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\_target\_rms vs Slug



Right In: 0.354+/-0.000  $\chi^2/\text{NDF}$ : 1164564.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.346+/-0.000  $\chi^2/\text{NDF}$ : 1163617.0/9

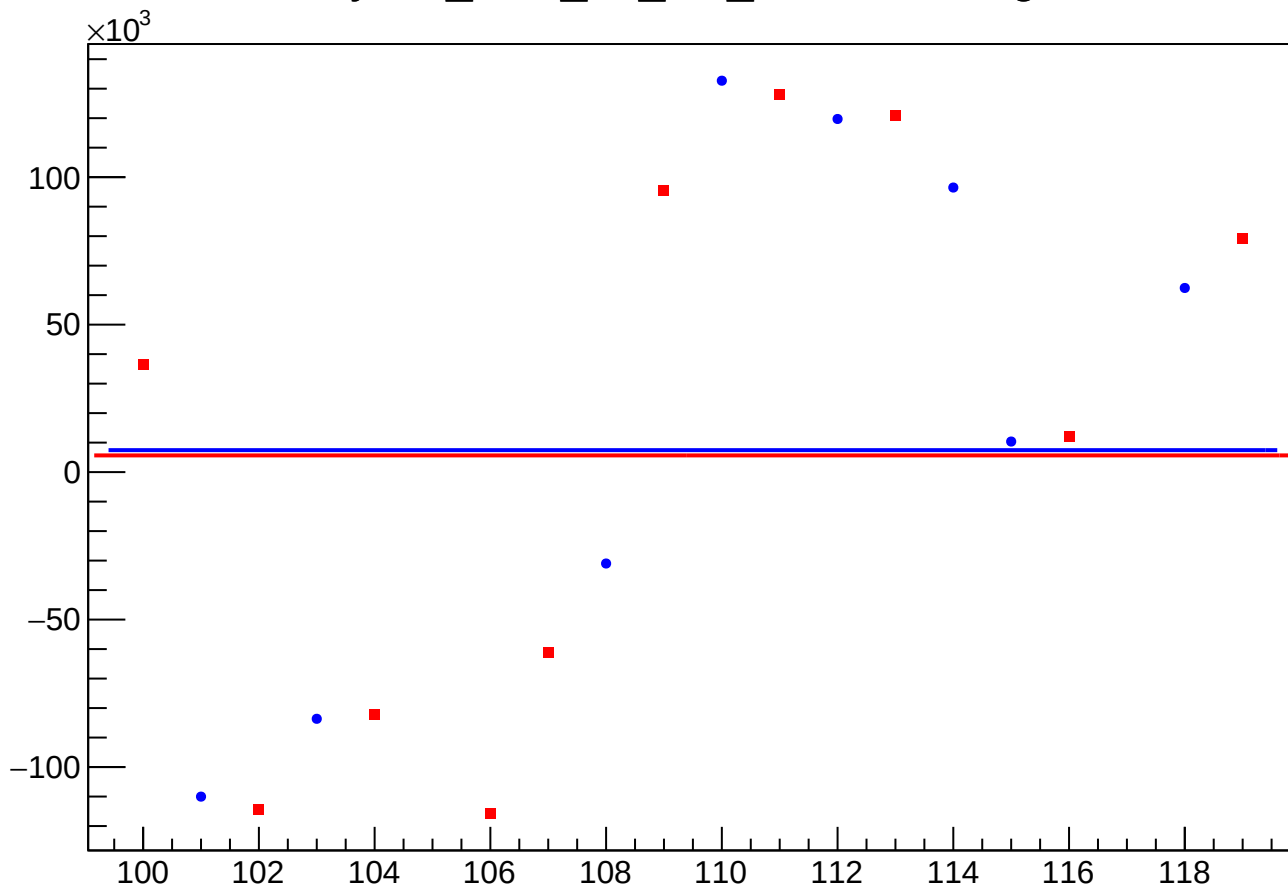
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.350+/-0.000  $\chi^2/\text{NDF}$ : 2329553.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_an\_diff\_mean vs Slug



Right In: 7445.471+/-3.048  $\chi^2/\text{NDF}$ : 946485928.8/7

+ 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

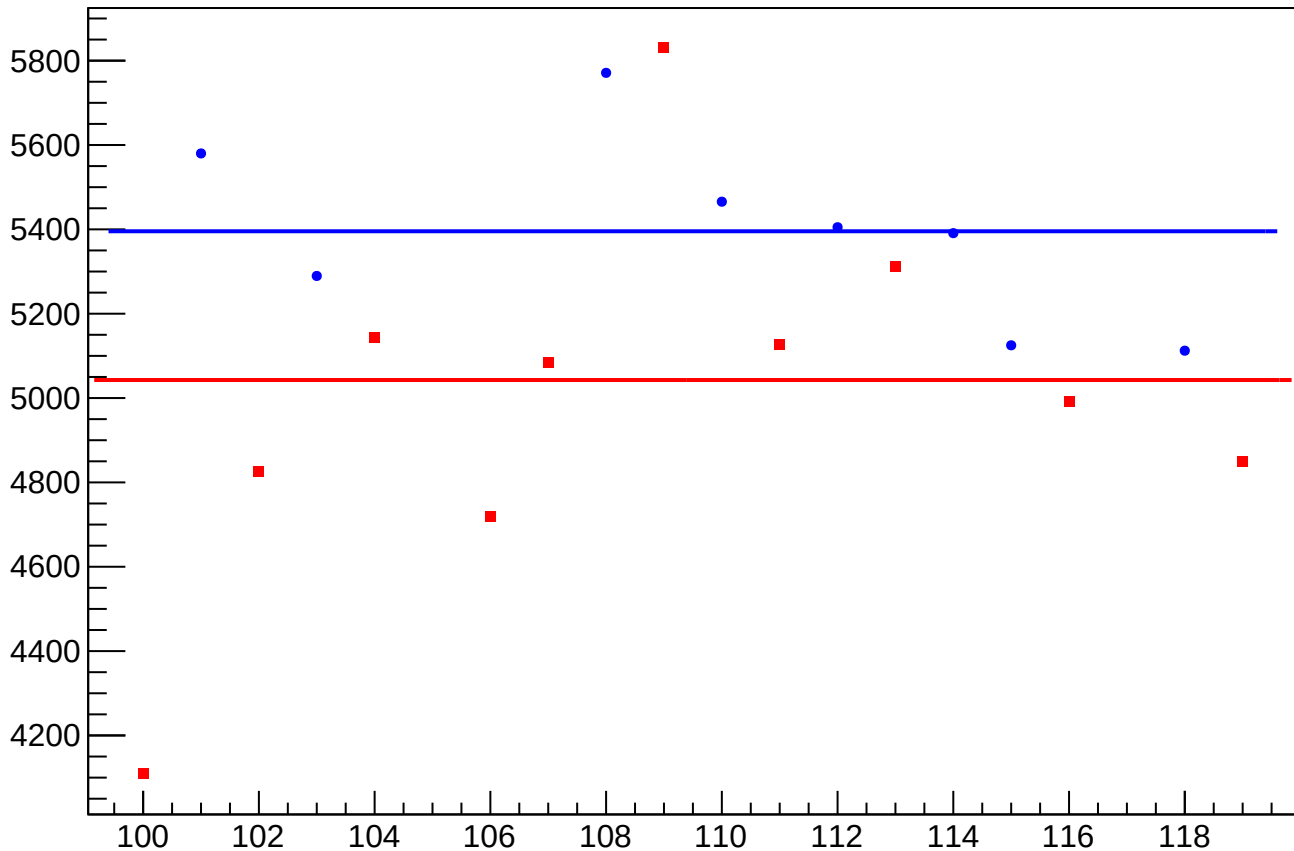
Right Out: 5662.778+/-2.543  $\chi^2/\text{NDF}$ : 1500243933.3/9

All: 6394.198+/-1.953  $\chi^2/\text{NDF}$ : 2446931525.

- 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: 5395.464 $\pm$ 2.156  $\chi^2$ /NDF: 8763.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5042.763 $\pm$ 1.798  $\chi^2$ /NDF: 36137.8/9

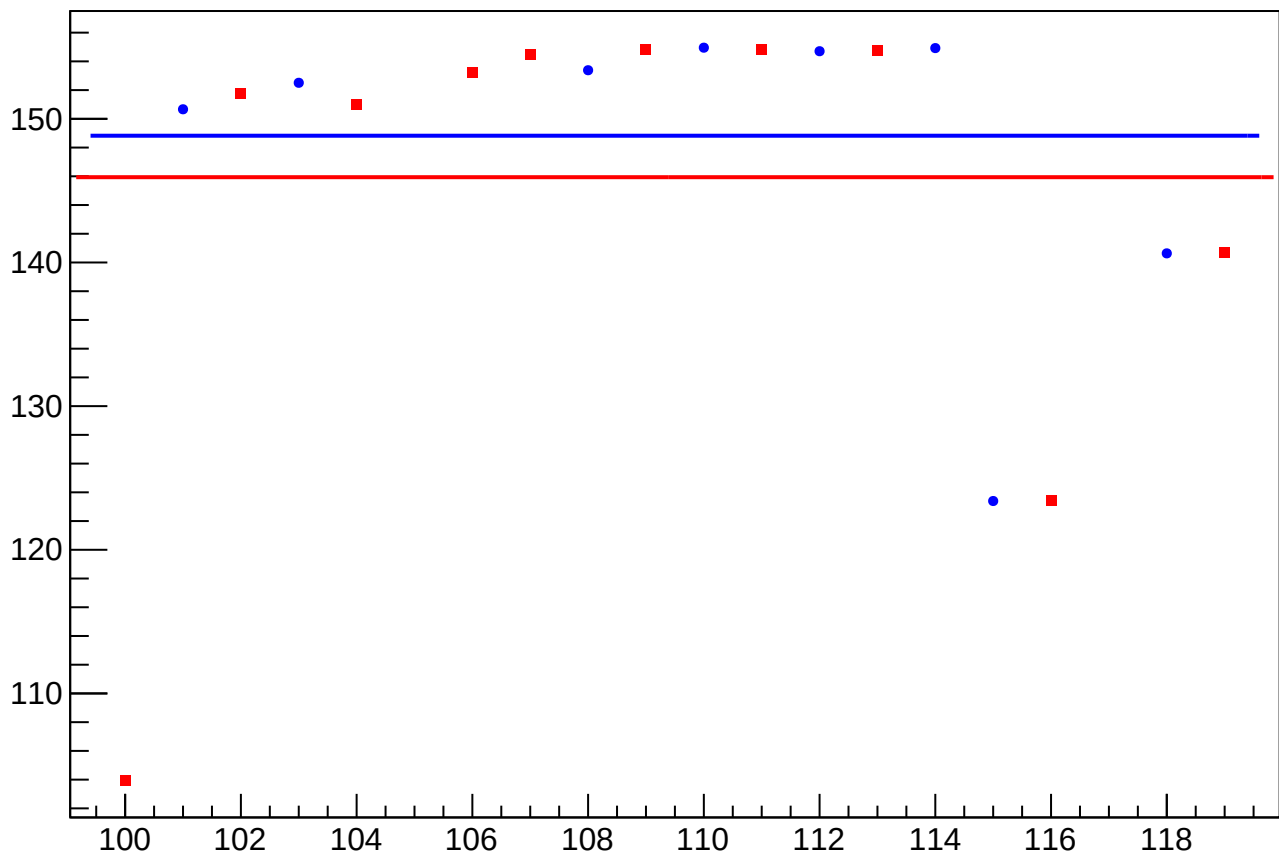
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5187.472 $\pm$ 1.381  $\chi^2$ /NDF: 60689.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_an\_ds\_mean vs Slug



Right In: 148.825+/-0.000  $\chi^2/\text{NDF}$ : 1914880044.2/7

+ 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

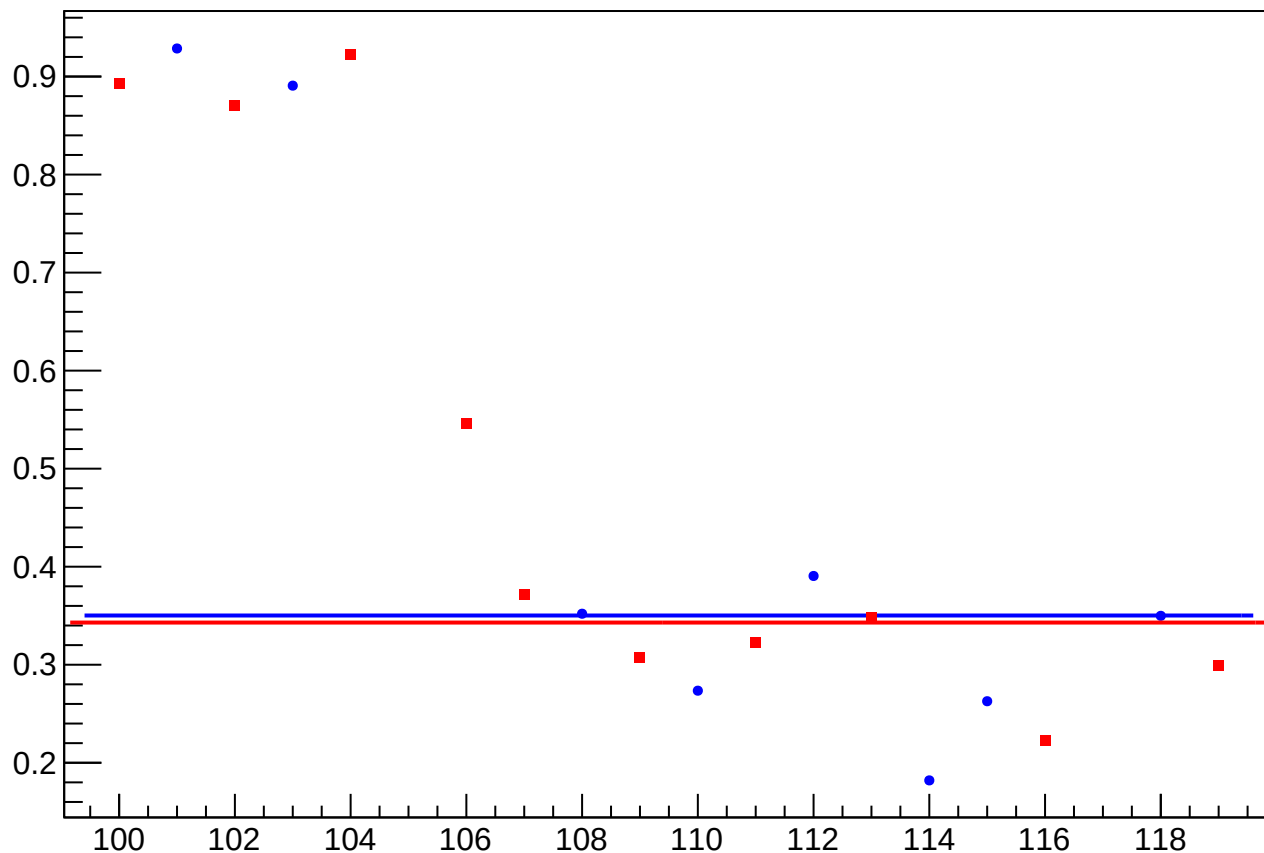
Right Out: 145.937+/-0.000  $\chi^2/\text{NDF}$ : 3921584359.3/9

All: 147.157+/-0.000  $\chi^2/\text{NDF}$ : 5932353653.3

- 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\_ds\_rms vs Slug



Right In: 0.350 $\pm$ 0.000  $\chi^2$ /NDF: 1173774.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.343 $\pm$ 0.000  $\chi^2$ /NDF: 1166960.3/9

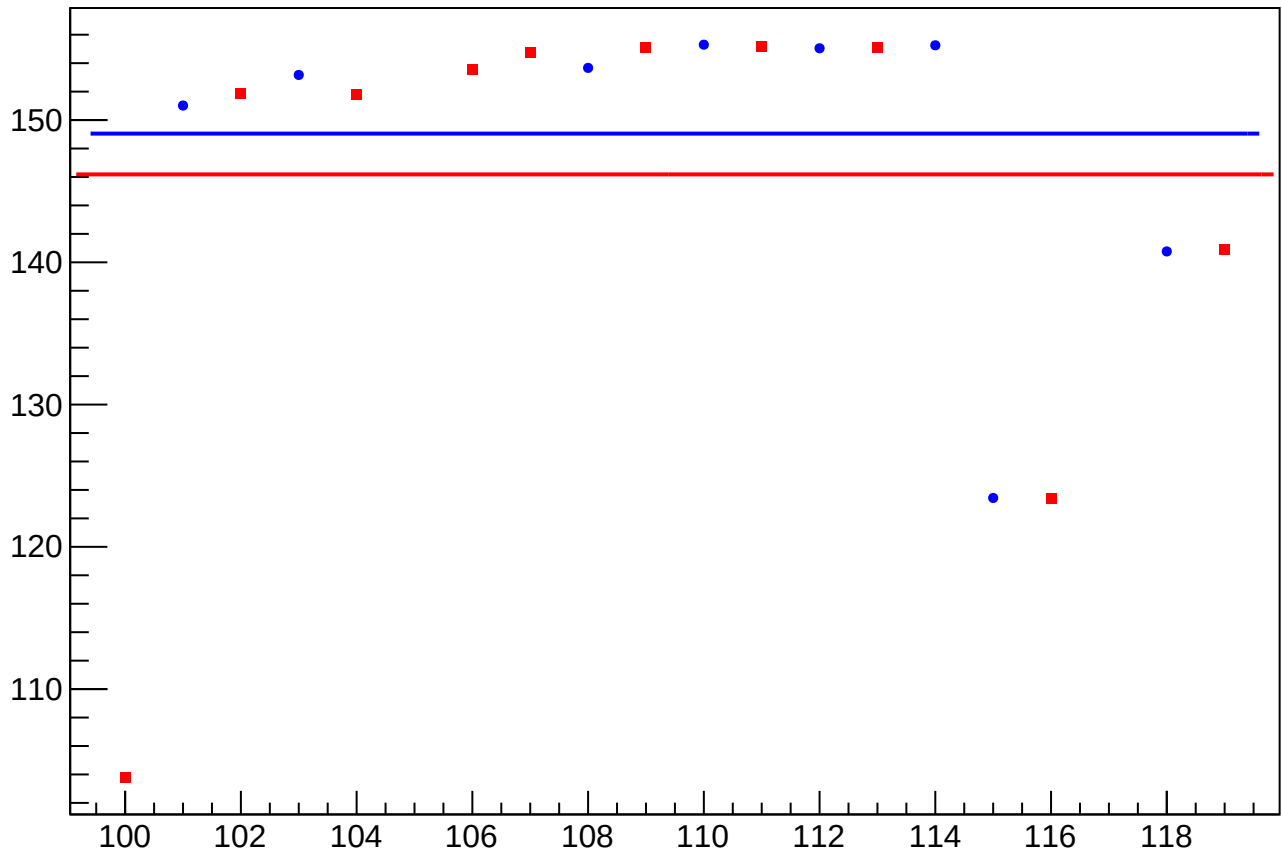
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.346 $\pm$ 0.000  $\chi^2$ /NDF: 2341925.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_an\_ds3\_mean vs Slug



Right In: 149.048 $\pm$ 0.000  $\chi^2$ /NDF: 1924741059.1/7

+ 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

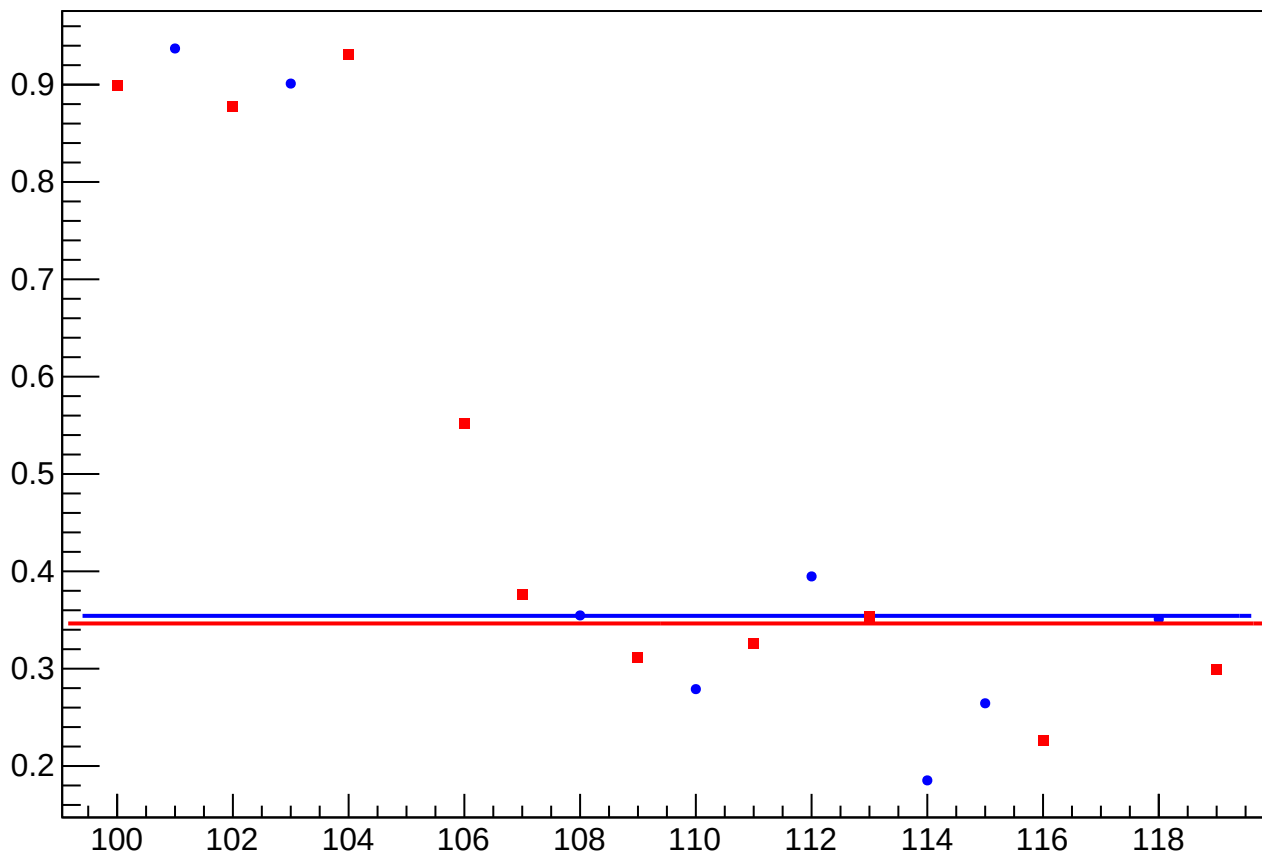
Right Out: 146.181 $\pm$ 0.000  $\chi^2$ /NDF: 3903835358.4/9

All: 147.391 $\pm$ 0.000  $\chi^2$ /NDF: 5921241386.0

- 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\_bcm\_an\_ds3\_rms vs Slug



Right In: 0.354+/-0.000  $\chi^2/\text{NDF}$ : 1166884.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.346+/-0.000  $\chi^2/\text{NDF}$ : 1165337.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

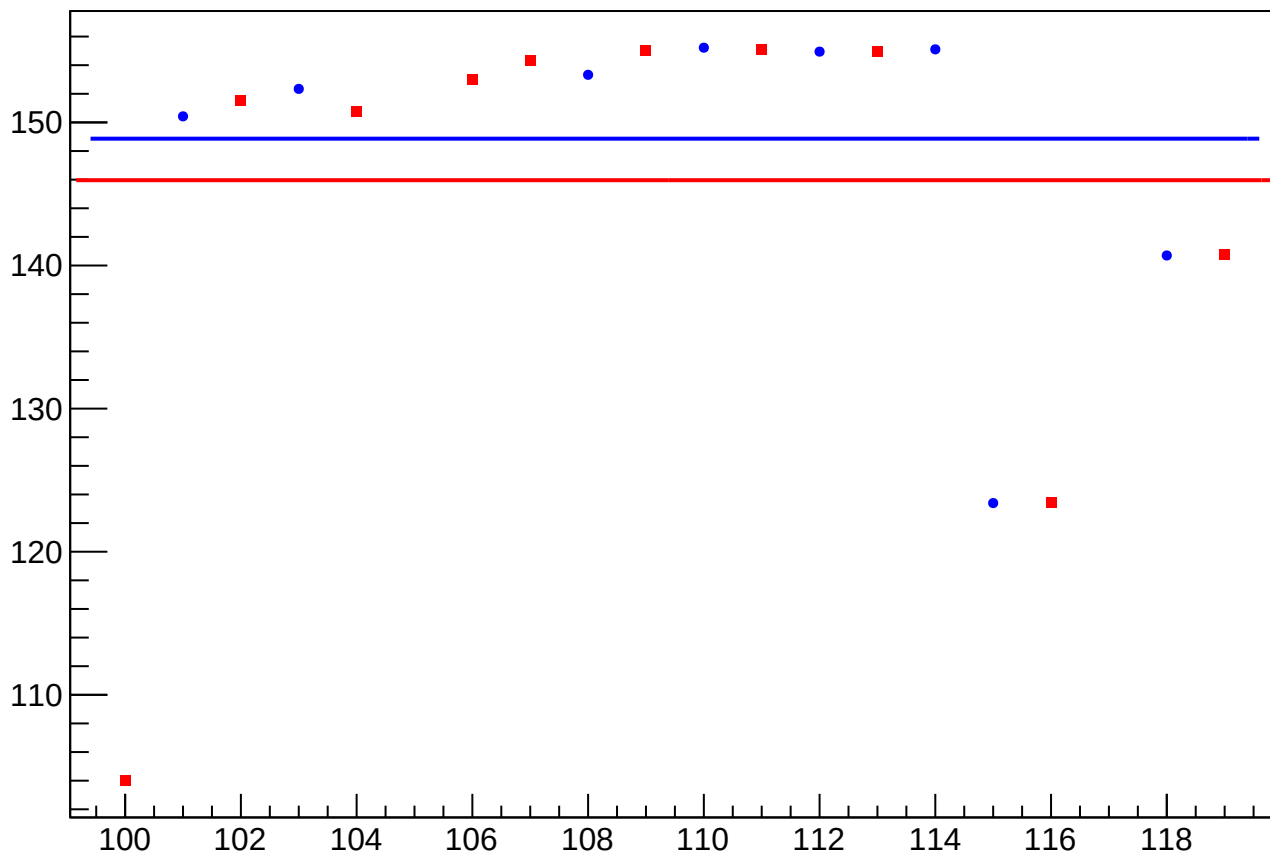
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.350+/-0.000  $\chi^2/\text{NDF}$ : 2333601.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bcm\_an\_us\_mean vs Slug



Right In: 148.864+/-0.000  $\chi^2/\text{NDF}$ : 1911711988.2/7

+ 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

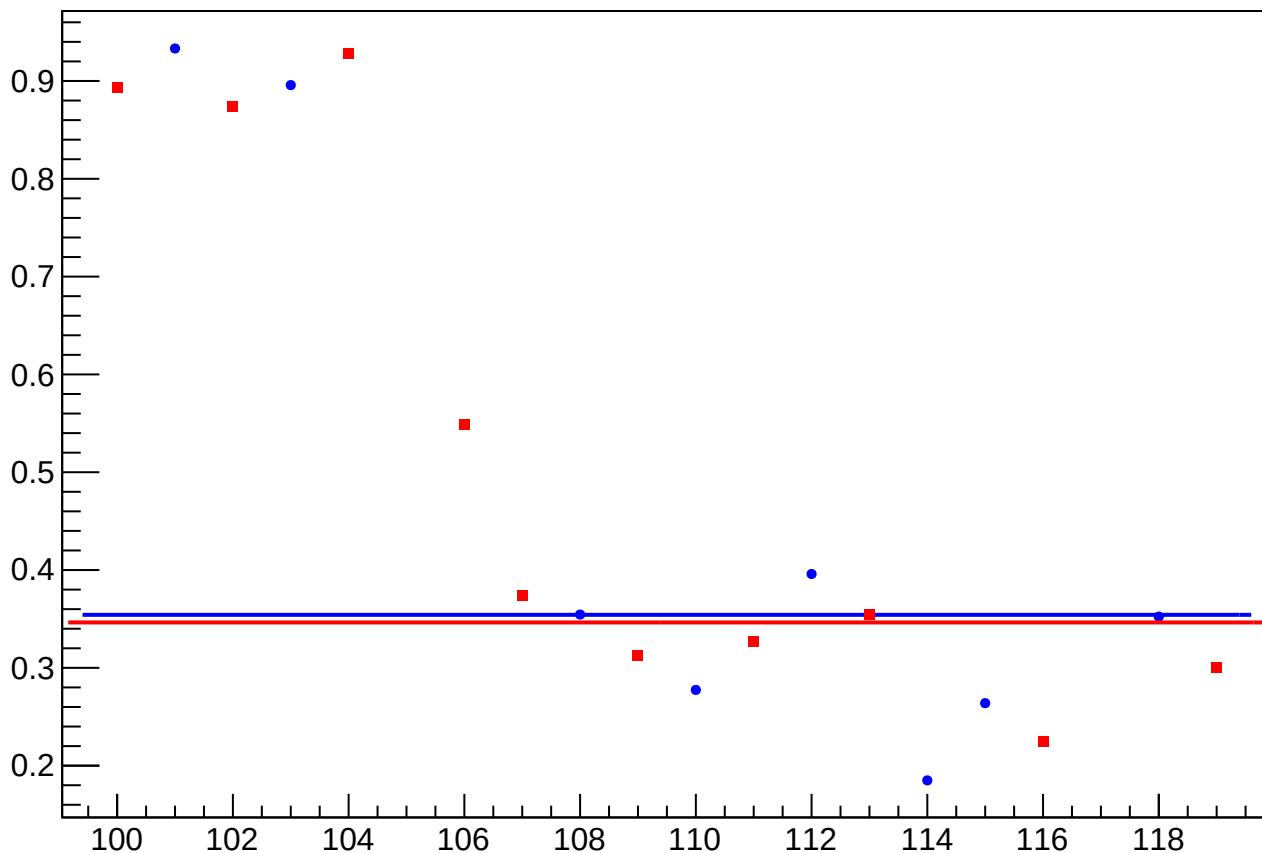
Right Out: 145.963+/-0.000  $\chi^2/\text{NDF}$ : 3899681892.2/9

All: 147.187+/-0.000  $\chi^2/\text{NDF}$ : 5906286803.8

- 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\_us\_rms vs Slug



Right In: 0.354+/-0.000  $\chi^2/\text{NDF}$ : 1164564.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.346+/-0.000  $\chi^2/\text{NDF}$ : 1163617.0/9

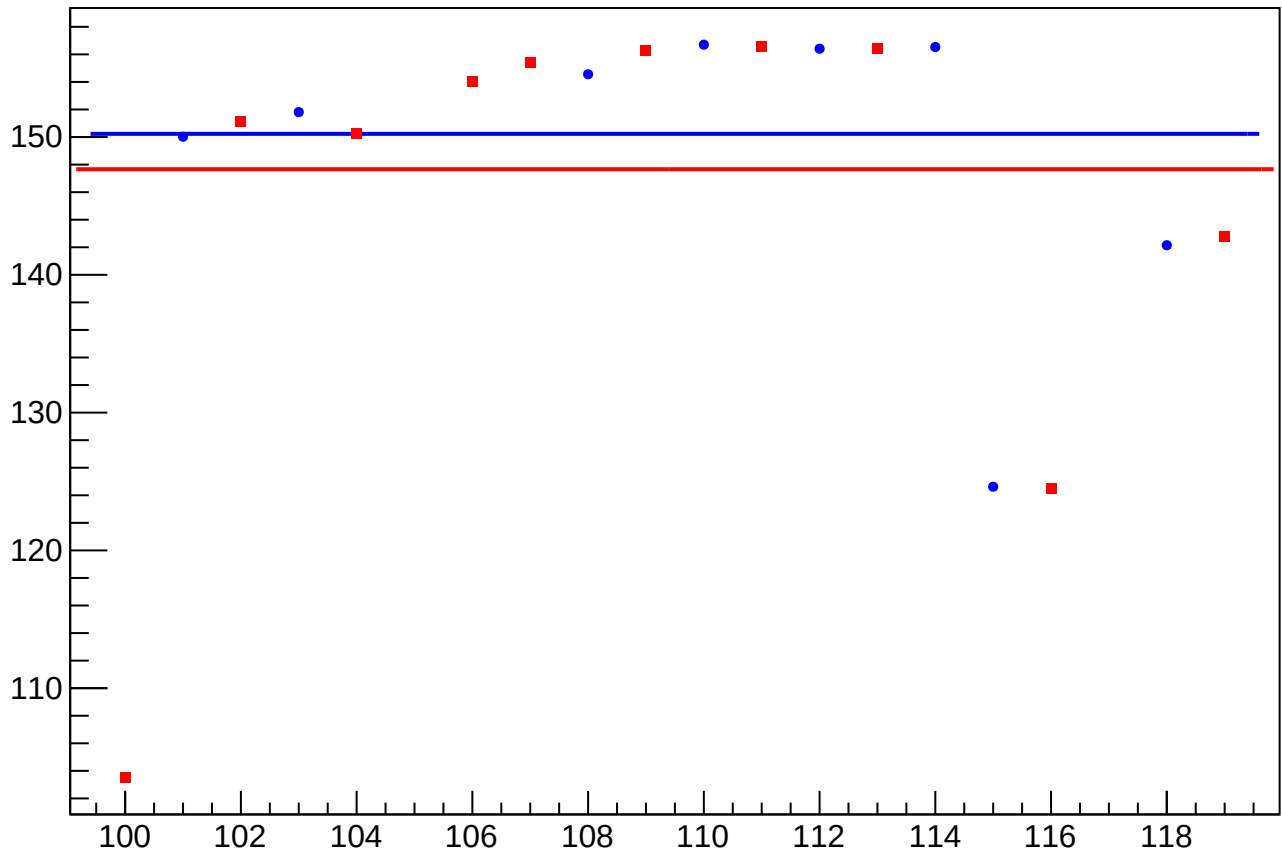
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.350+/-0.000  $\chi^2/\text{NDF}$ : 2329553.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_dg\_us\_mean vs Slug



Right In: 150.232+/-0.000  $\chi^2/\text{NDF}$ : 1779294741.6/7

+ 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

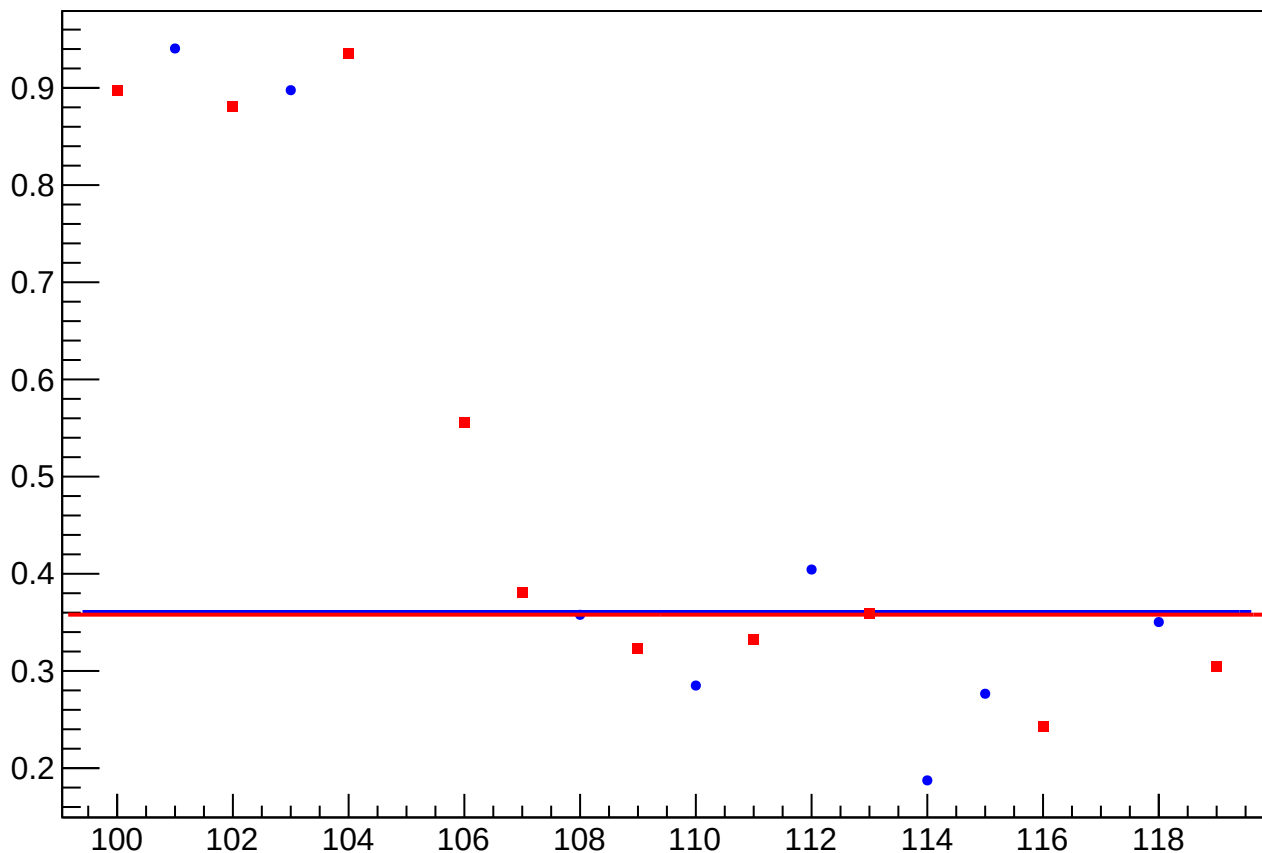
Right Out: 147.666+/-0.000  $\chi^2/\text{NDF}$ : 3501454684.6/9

All: 148.763+/-0.000  $\chi^2/\text{NDF}$ : 5351801153.7

- 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\_bcm\_dg\_us\_rms vs Slug



Right In: 0.361+/-0.000  $\chi^2/\text{NDF}$ : 1143146.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.358+/-0.000  $\chi^2/\text{NDF}$ : 1106215.9/9

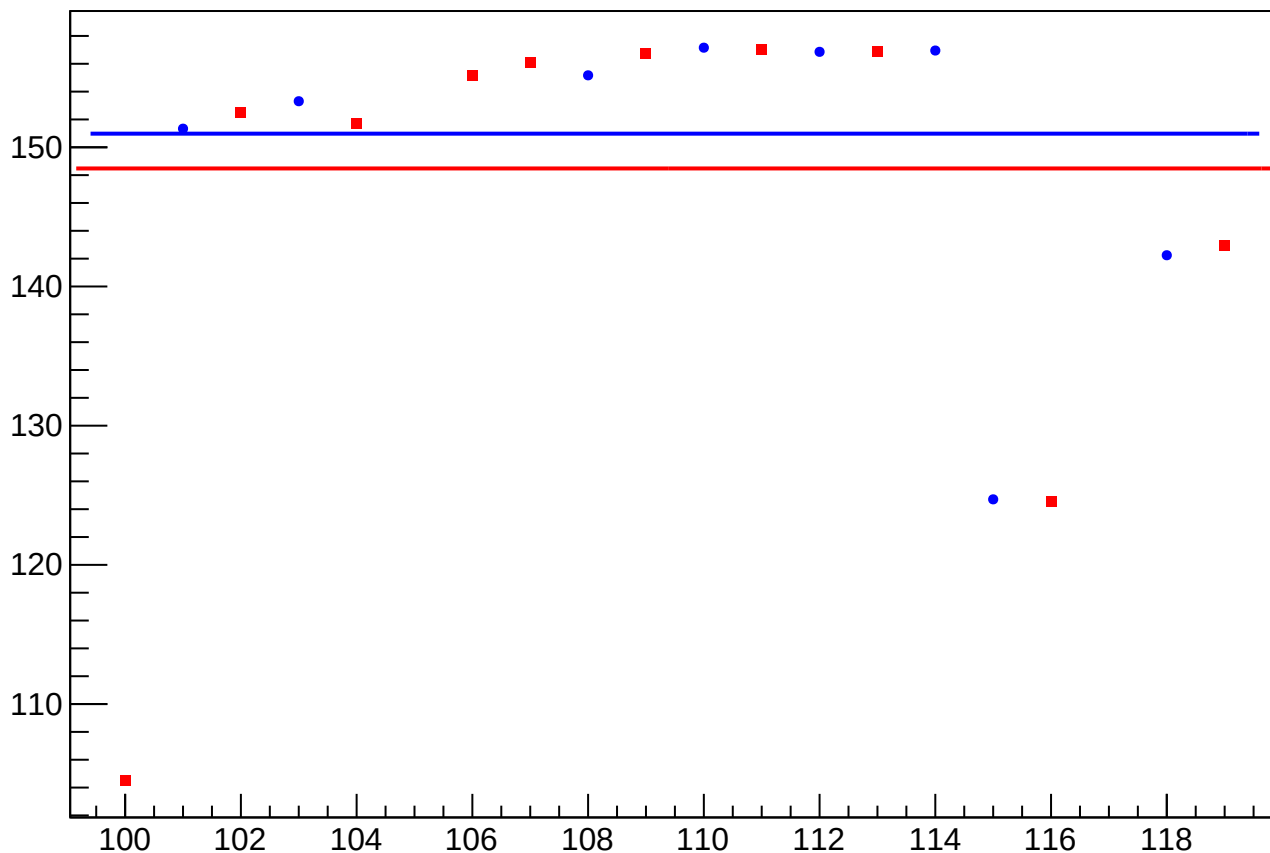
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.359+/-0.000  $\chi^2/\text{NDF}$ : 2249524.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_dg\_ds\_mean vs Slug



Right In: 150.979 $\pm$ 0.000  $\chi^2$ /NDF: 1798581711.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 148.479 $\pm$ 0.000  $\chi^2$ /NDF: 3538856164.5/9

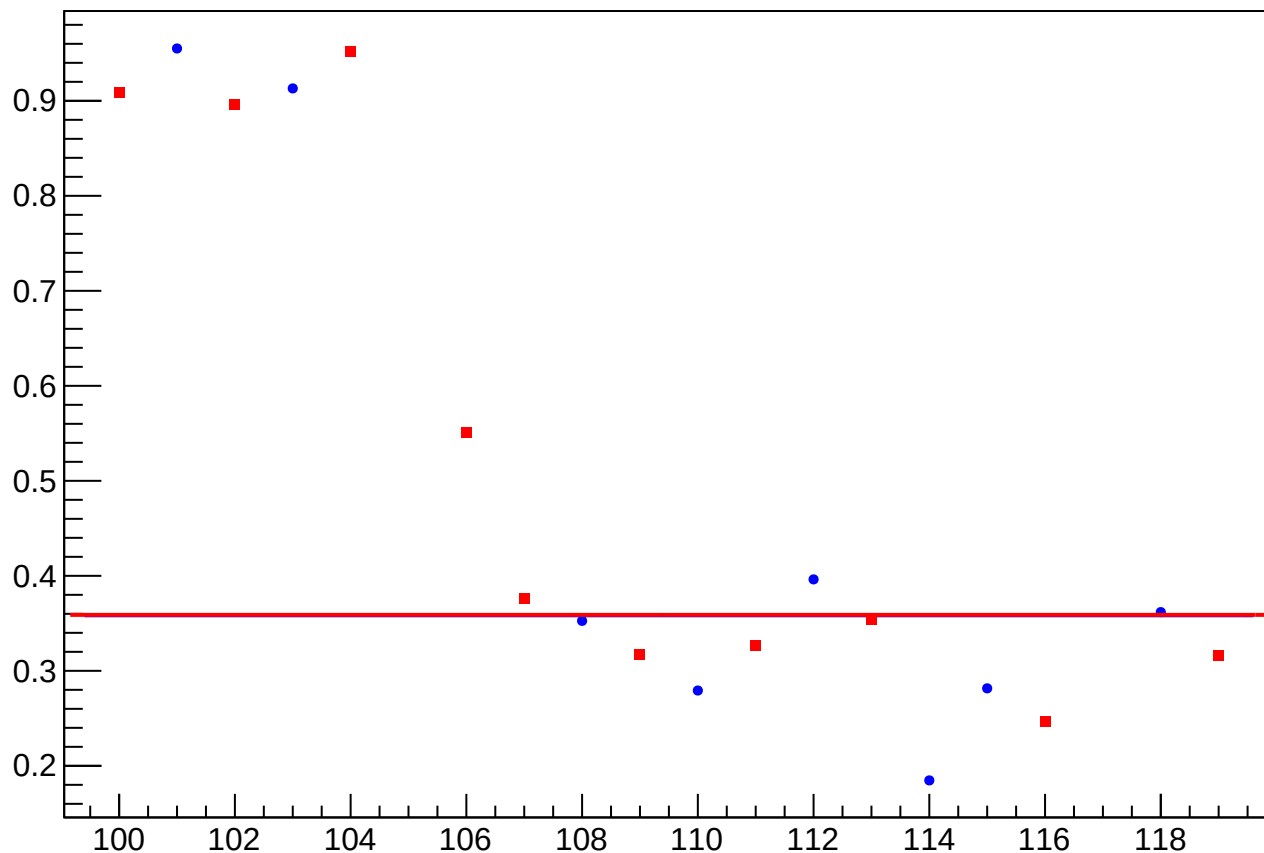
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 149.556 $\pm$ 0.000  $\chi^2$ /NDF: 5404984613.8

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_dg\_ds\_rms vs Slug



Right In: 0.358 $\pm$ 0.000  $\chi^2$ /NDF: 1173500.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.359 $\pm$ 0.000  $\chi^2$ /NDF: 1104875.6/9

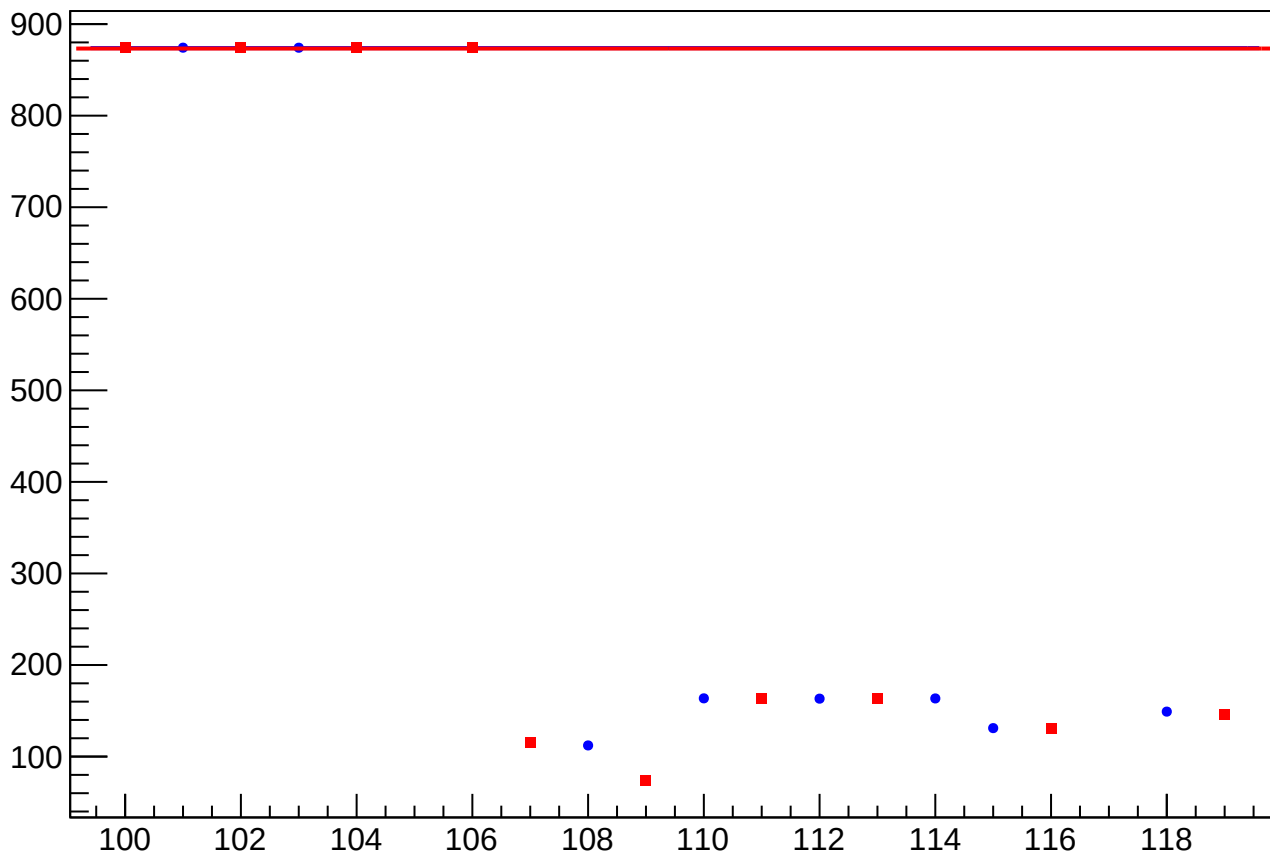
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.359 $\pm$ 0.000  $\chi^2$ /NDF: 2278380.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

yield\_cav4bQ\_mean vs Slug



Right In: 873.787 $\pm$ 0.000  $\chi^2$ /NDF: 2259162074597.4/7

+ 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

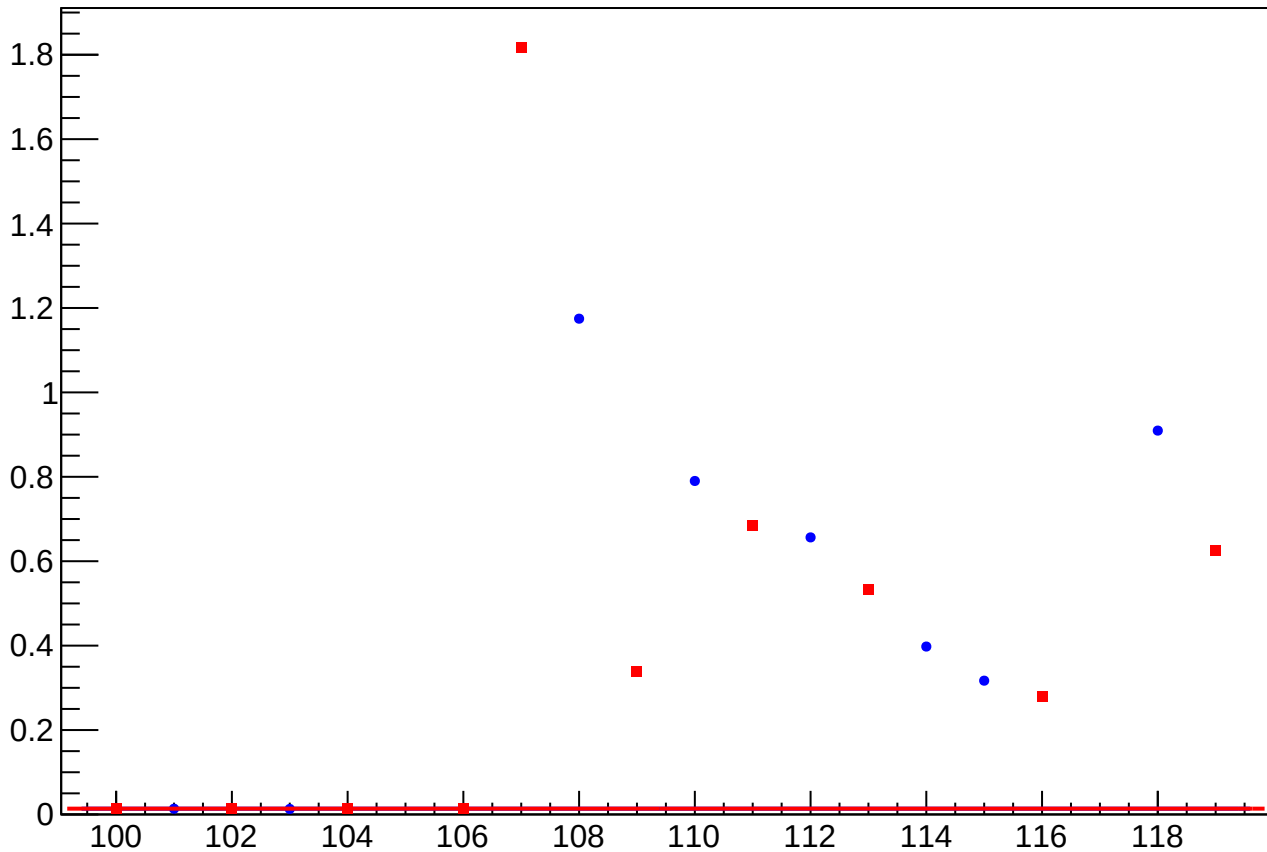
Right Out: 873.299 $\pm$ 0.000  $\chi^2$ /NDF: 5493416078082.7/9

All: 873.526 $\pm$ 0.000  $\chi^2$ /NDF: 775348830917

- 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+/-0.000  $\chi^2/\text{NDF}$ : 3364643.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 3808467.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

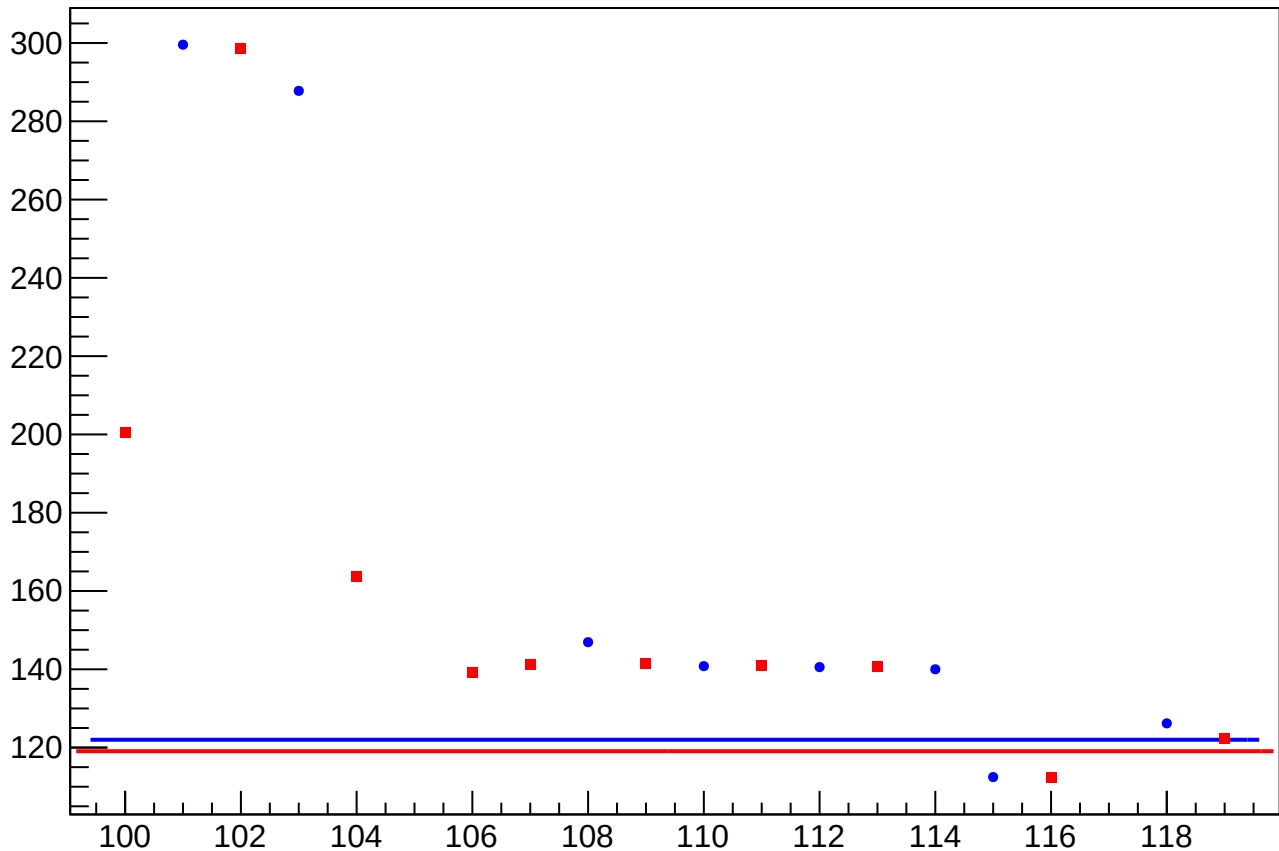
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 7173180.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_cav4cQ\_mean vs Slug



Right In: 122.001 $\pm$ 0.001  $\chi^2$ /NDF: 1170556203.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 119.071 $\pm$ 0.000  $\chi^2$ /NDF: 976435452.4/9

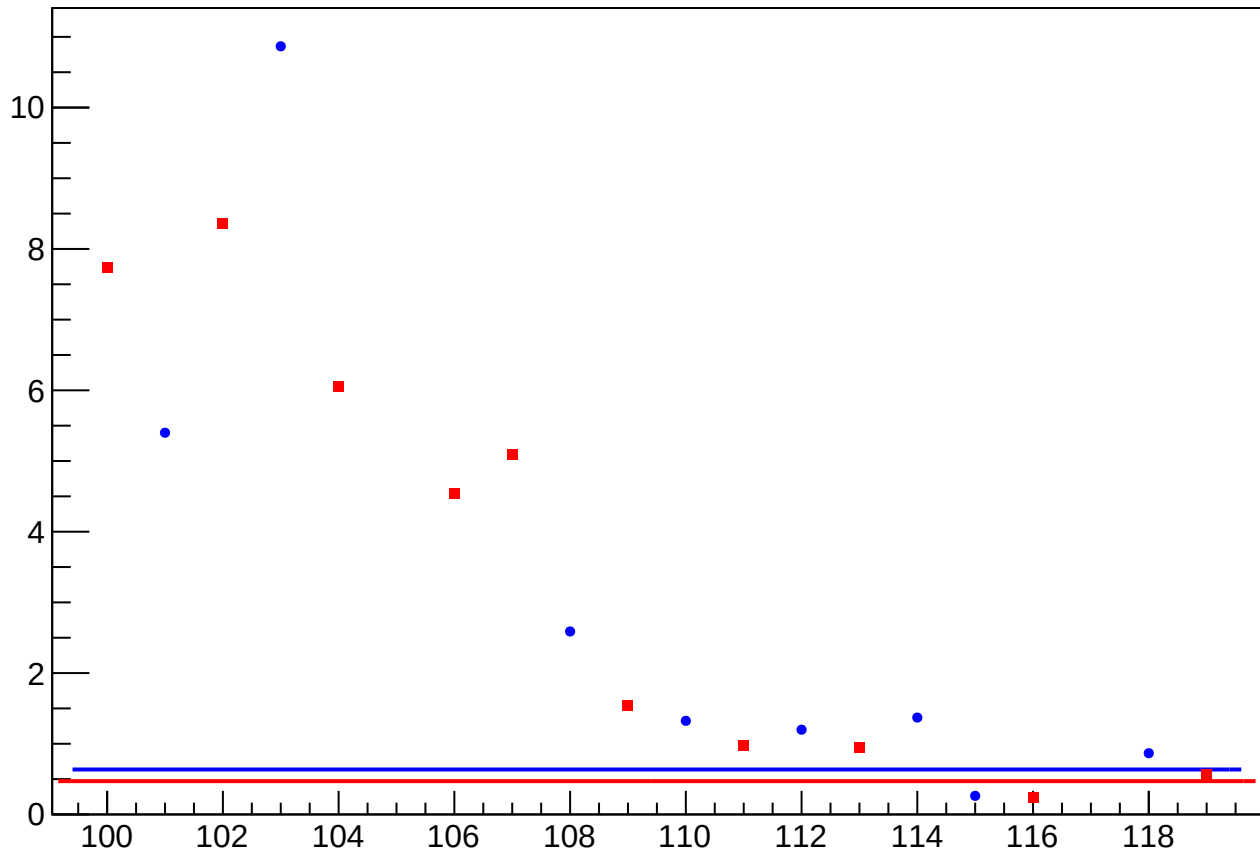
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.050 $\pm$ 0.000  $\chi^2$ /NDF: 2164739168.8

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4cQ\_rms vs Slug



Right In: 0.636 $\pm$ 0.000  $\chi^2$ /NDF: 3351902.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.471 $\pm$ 0.000  $\chi^2$ /NDF: 3963520.7/9

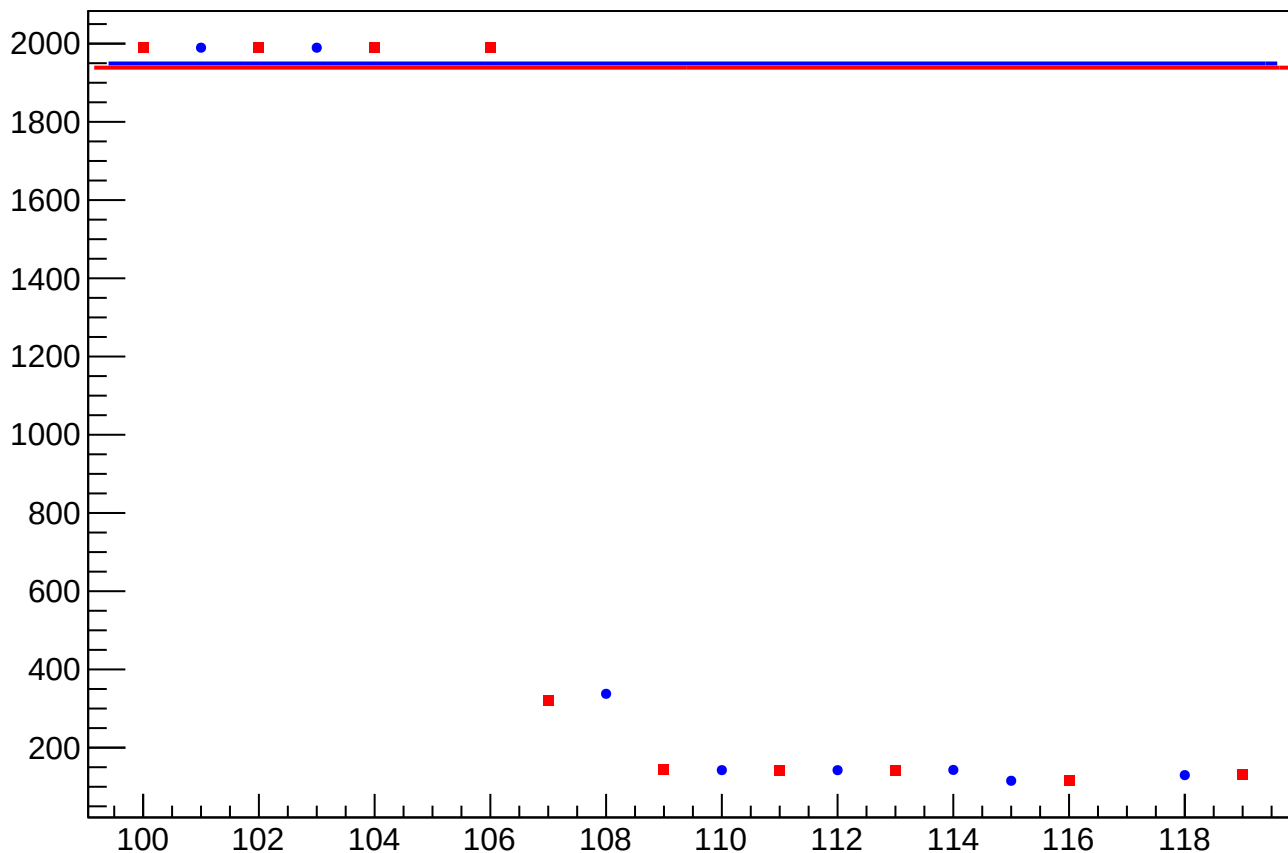
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.526 $\pm$ 0.000  $\chi^2$ /NDF: 7427613.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4dQ\_mean vs Slug



Right In: 1949.200+/-0.000  $\chi^2/\text{NDF}$ : 39299390063940.9/7

+ 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

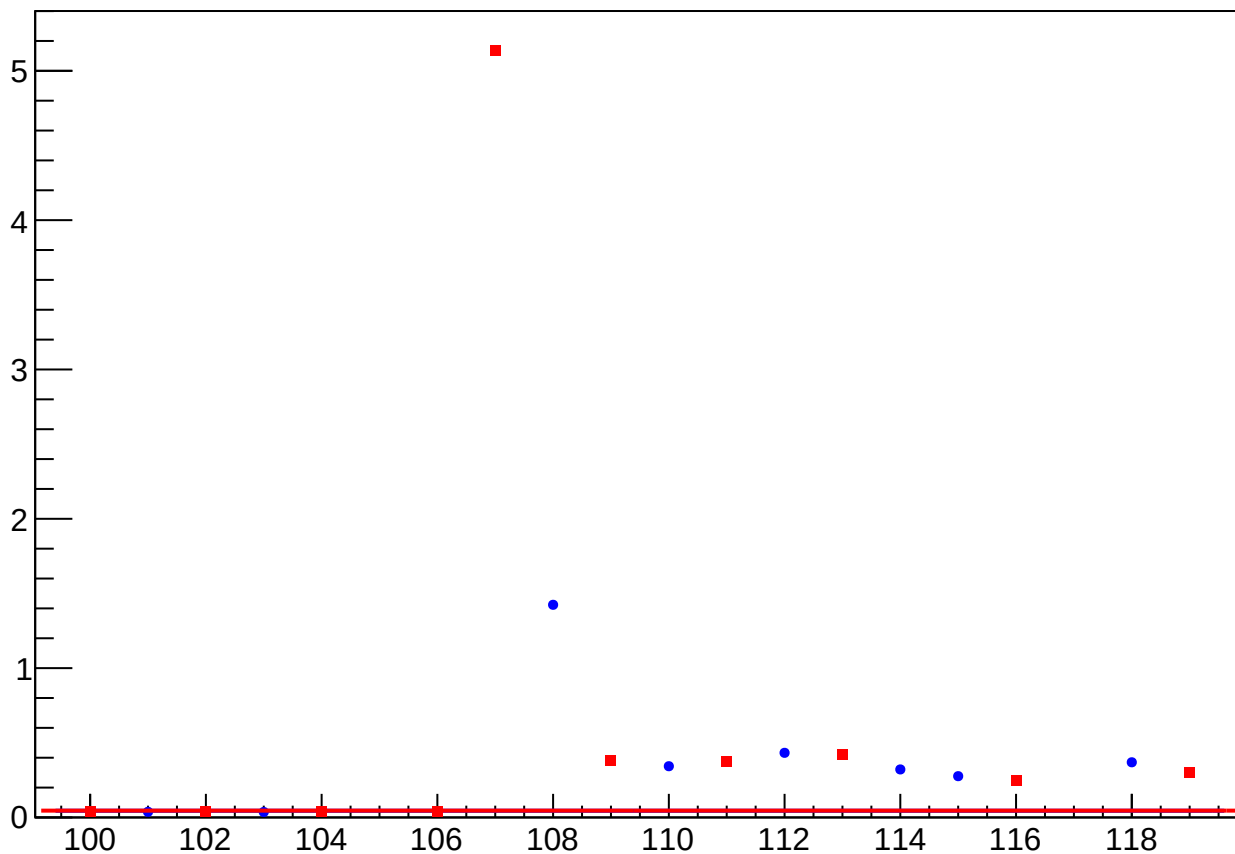
All: 1943.435+/-0.000  $\chi^2/\text{NDF}$ : 98232289010

Right Out: 1938.600+/-0.000  $\chi^2/\text{NDF}$ : 58900144202098.4/9

- 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: 0.045+/-0.000  $\chi^2/\text{NDF}$ : 2989404.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.046+/-0.000  $\chi^2/\text{NDF}$ : 3367606.3/9

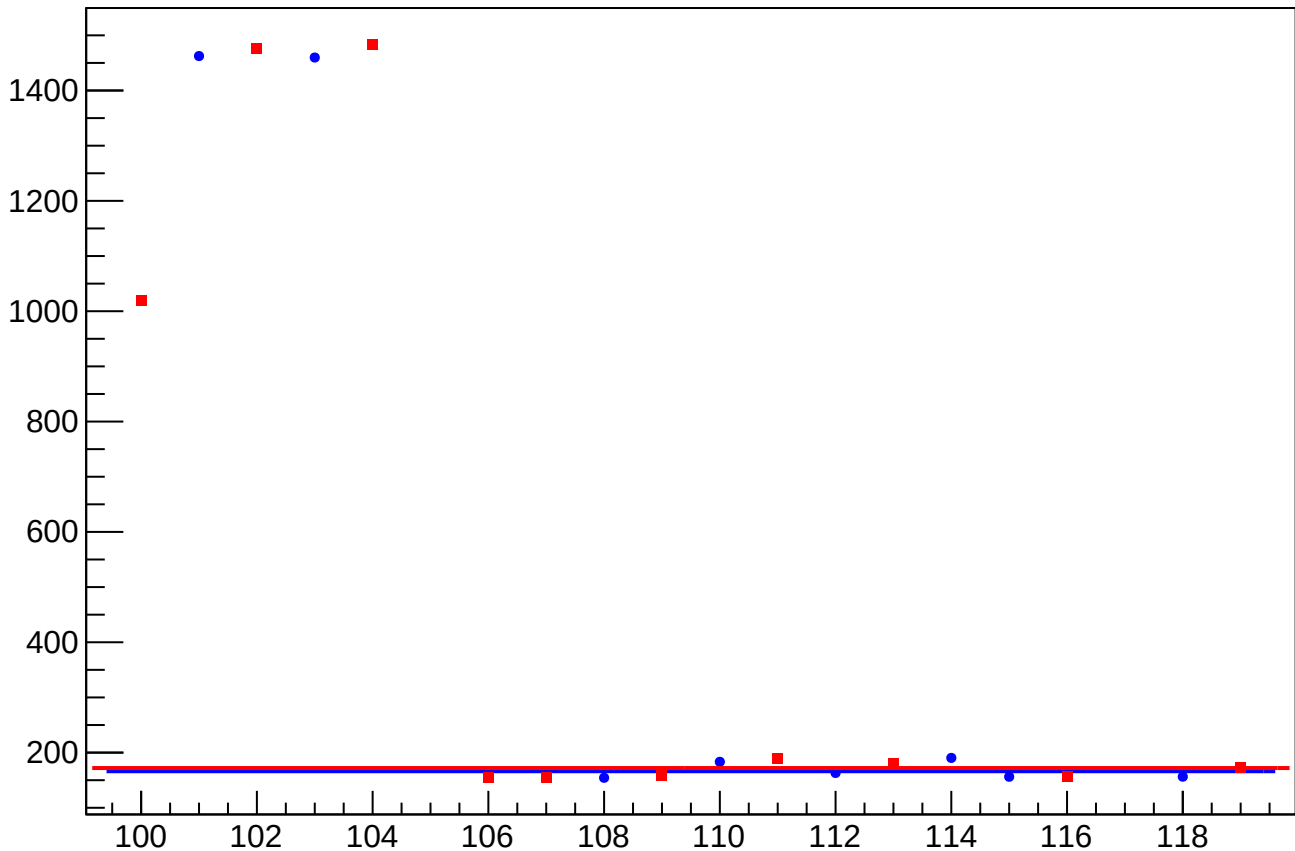
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.045+/-0.000  $\chi^2/\text{NDF}$ : 6357353.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_bcm0l02\_mean vs Slug



Right In: 166.257+/-0.001  $\chi^2/\text{NDF}$ : 14324068794.9/7

+ 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

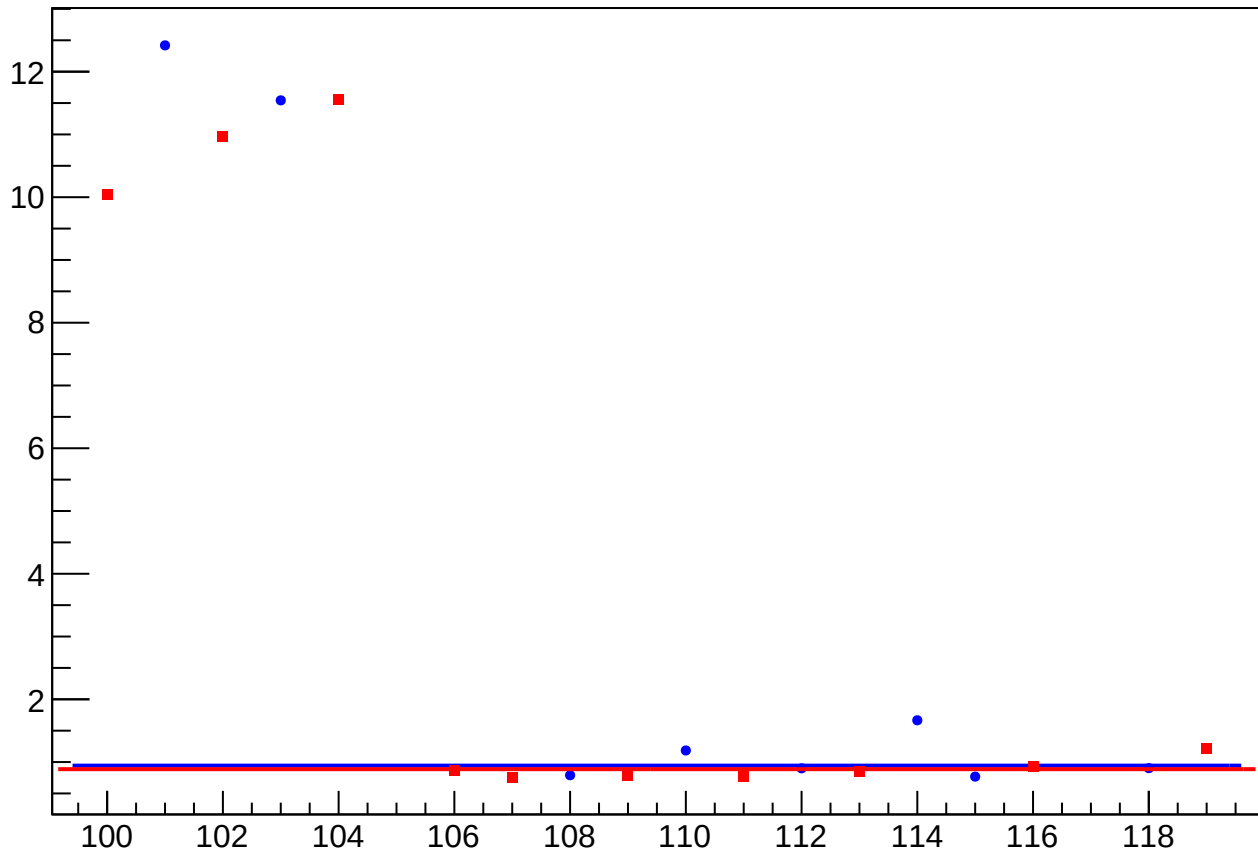
Right Out: 172.022+/-0.001  $\chi^2/\text{NDF}$ : 16035896757.5/9

All: 169.658+/-0.000  $\chi^2/\text{NDF}$ : 30397090255.

- 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\_bcm0l02\_rms vs Slug



Right In: 0.943 $\pm$ 0.001  $\chi^2$ /NDF: 2139245.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.887 $\pm$ 0.000  $\chi^2$ /NDF: 2090102.7/9

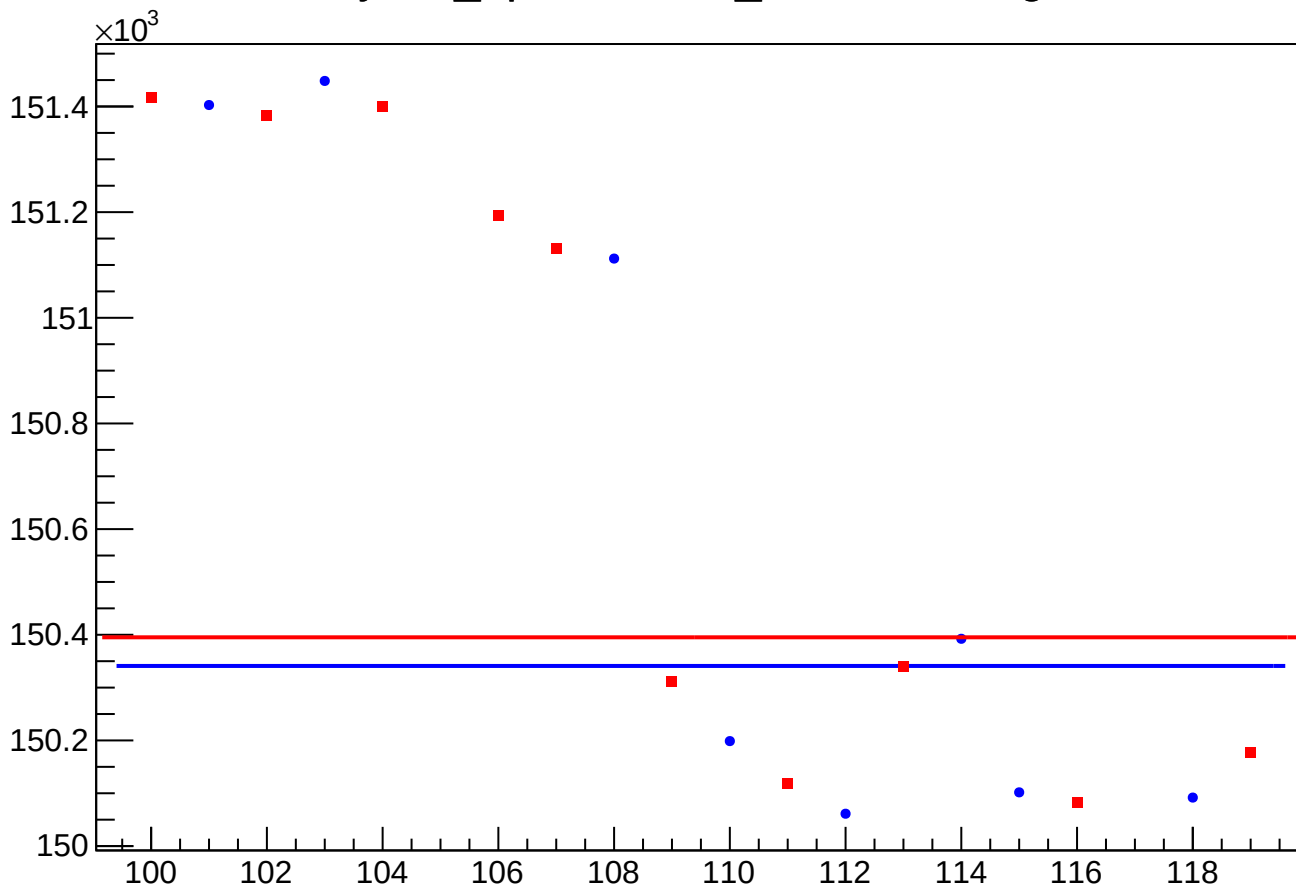
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.910 $\pm$ 0.000  $\chi^2$ /NDF: 4236437.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i01WS\_mean vs Slug



Right In: 150340.992 $\pm$ 0.077  $\chi^2$ /NDF: 32107637.7/7

+ 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

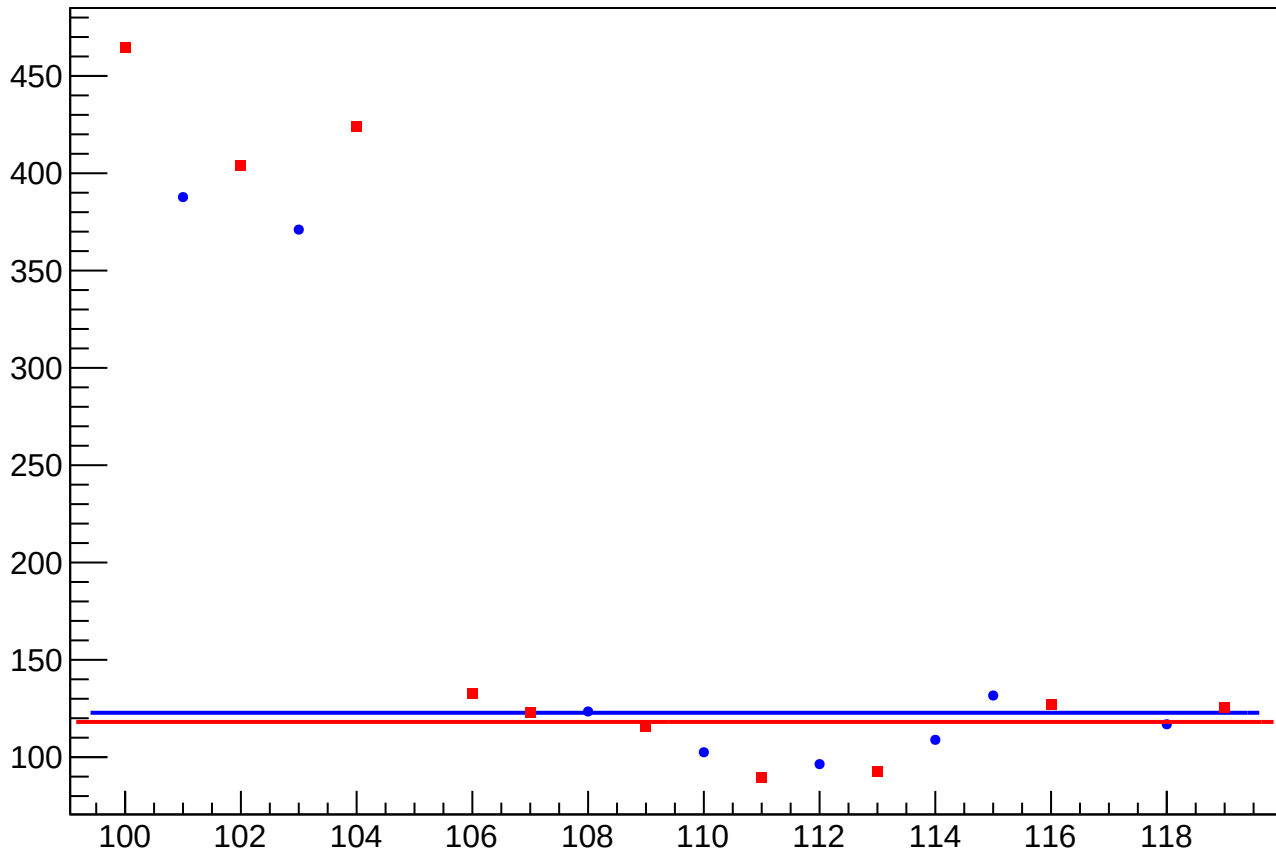
All: 150372.439 $\pm$ 0.050  $\chi^2$ /NDF: 67311578.

Right Out: 150395.191 $\pm$ 0.065  $\chi^2$ /NDF: 34915326.4/9

- 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: 122.805 $\pm$ 0.054  $\chi^2$ /NDF: 1221501.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 118.093 $\pm$ 0.046  $\chi^2$ /NDF: 1435052.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

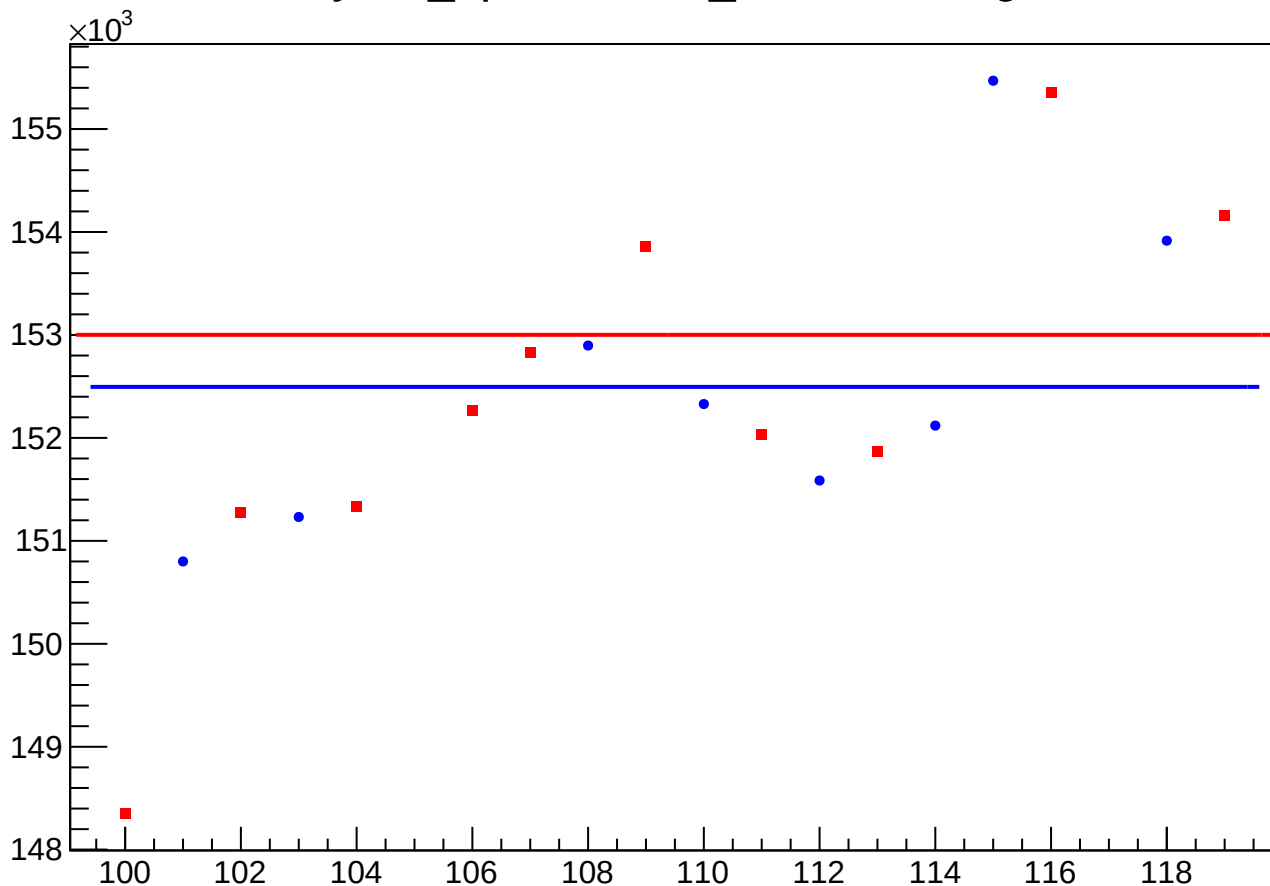
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.071 $\pm$ 0.035  $\chi^2$ /NDF: 2660917.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bpm0i07WS\_mean vs Slug



Right In: 152495.606 $\pm$ 0.118  $\chi^2$ /NDF: 84447572.1/7

+ 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

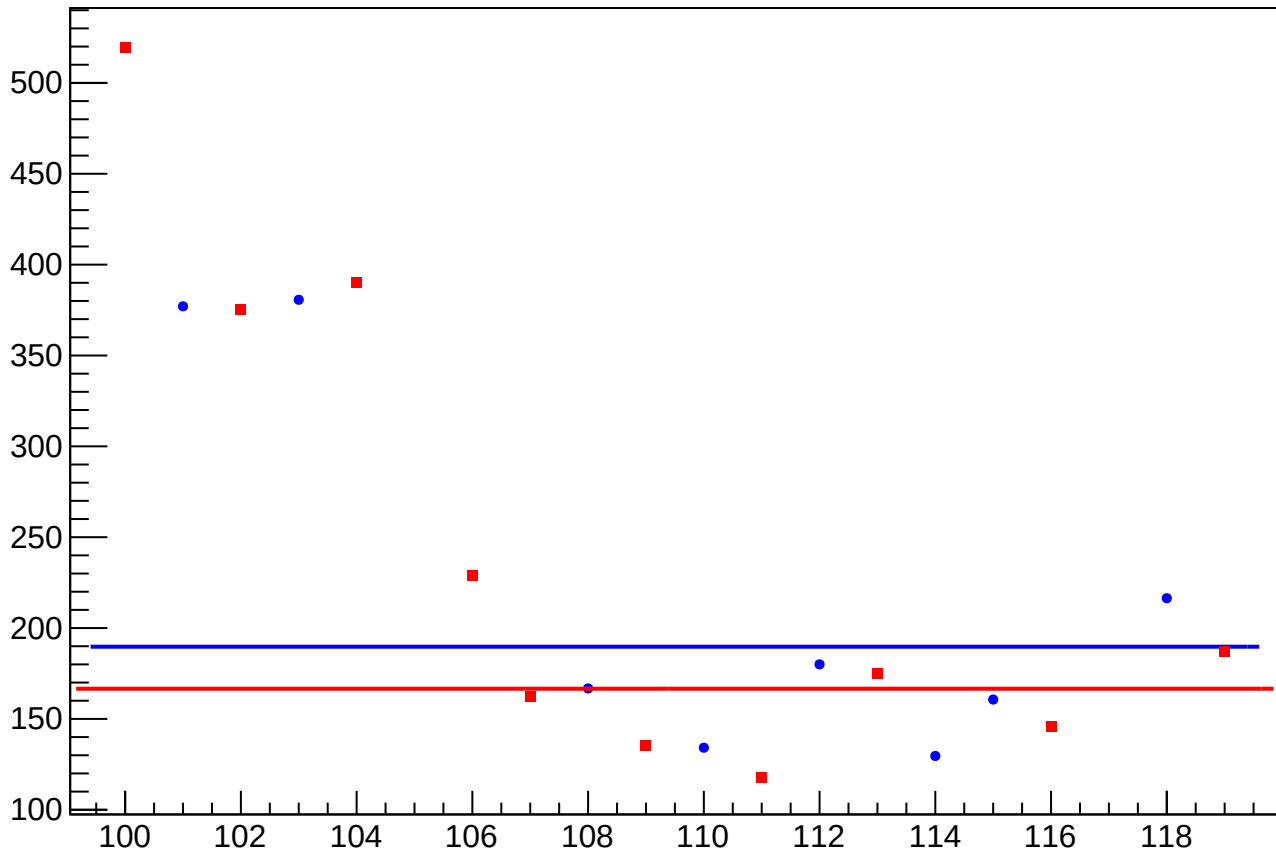
Right Out: 153001.190 $\pm$ 0.094  $\chi^2$ /NDF: 168651054.5/9

All: 152807.010 $\pm$ 0.073  $\chi^2$ /NDF: 264316700

- 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: 189.738 $\pm$ 0.084  $\chi^2$ /NDF: 817875.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 166.621 $\pm$ 0.066  $\chi^2$ /NDF: 1062022.8/9

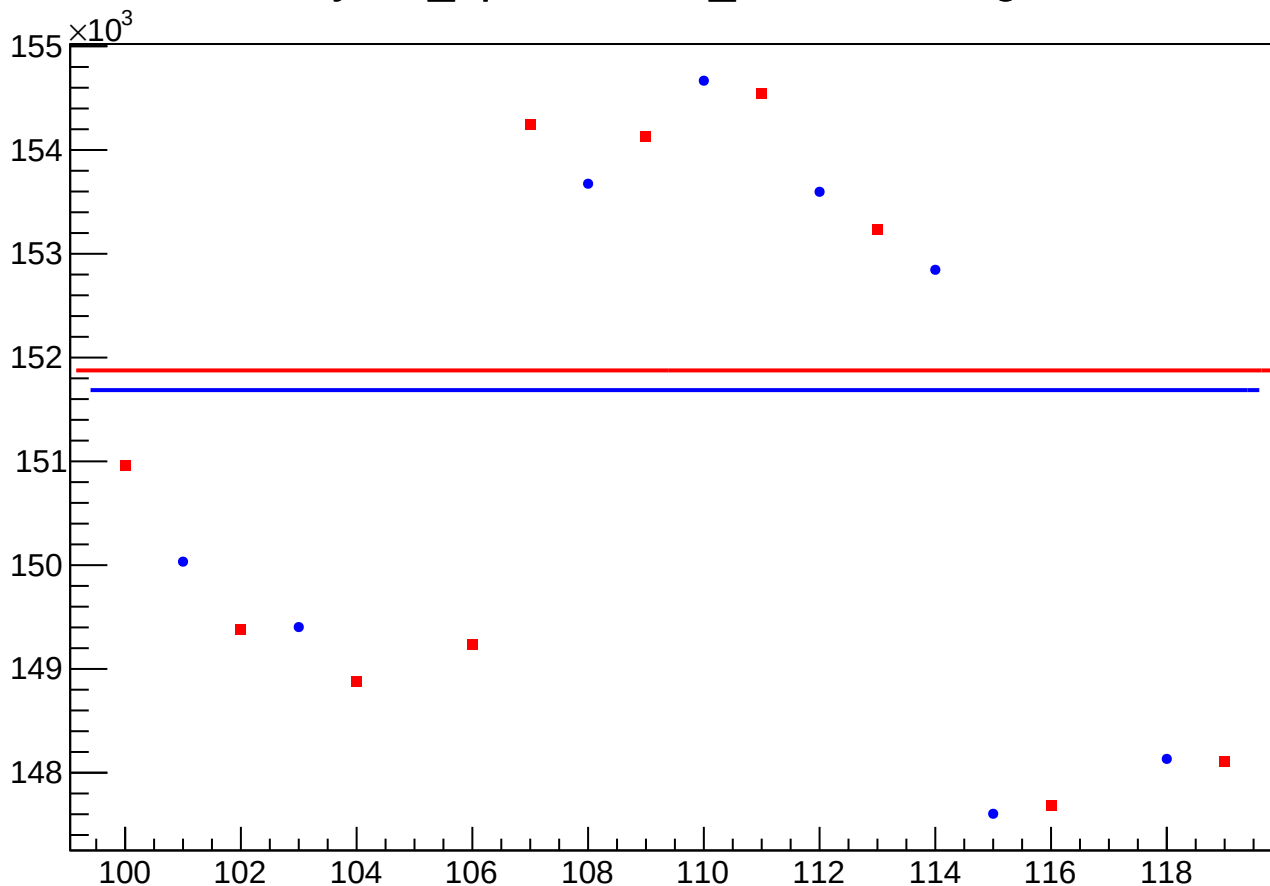
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 175.500 $\pm$ 0.052  $\chi^2$ /NDF: 1926804.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i01WS\_mean vs Slug



Right In: 151686.569 $\pm$ 0.091  $\chi^2$ /NDF: 929500271.7/7

+ 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

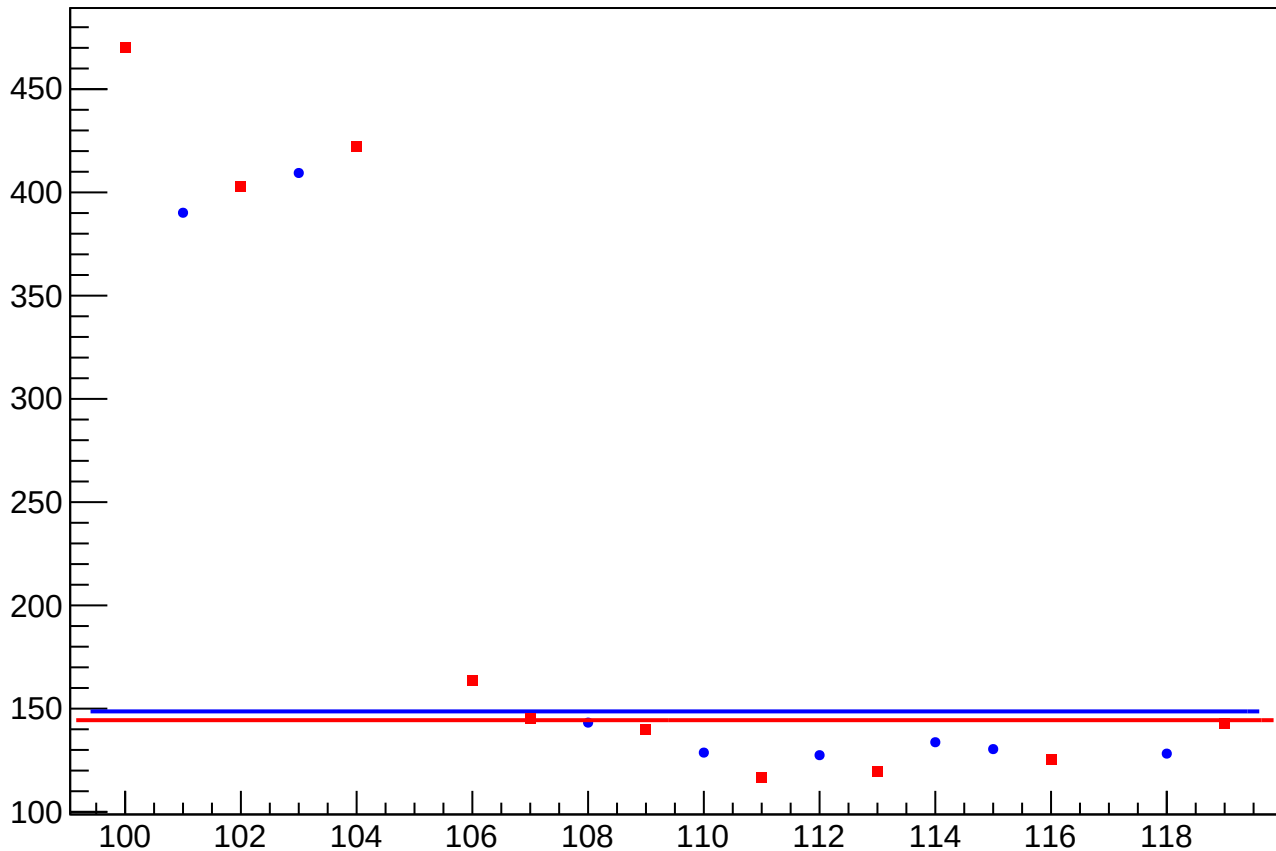
Right Out: 151876.262 $\pm$ 0.080  $\chi^2$ /NDF: 1250657183.8/9

All: 151794.181 $\pm$ 0.060  $\chi^2$ /NDF: 218261384

- 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: 148.662 $\pm$ 0.064  $\chi^2$ /NDF: 1068001.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 144.408 $\pm$ 0.056  $\chi^2$ /NDF: 1155374.0/9

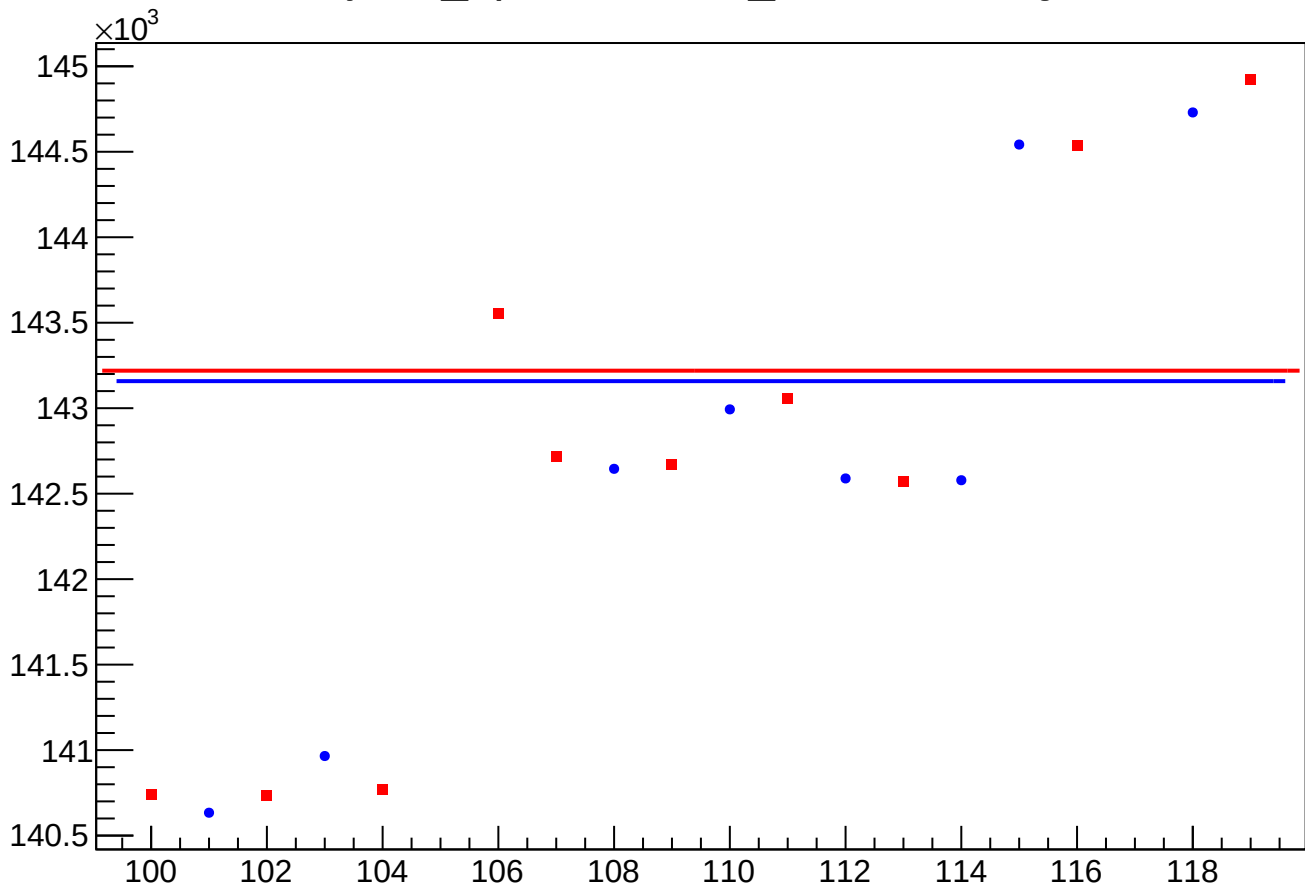
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 146.249 $\pm$ 0.042  $\chi^2$ /NDF: 2225845.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i01aWS\_mean vs Slug



Right In: 143158.286 $\pm$ 0.074  $\chi^2$ /NDF: 202013929.2/7

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

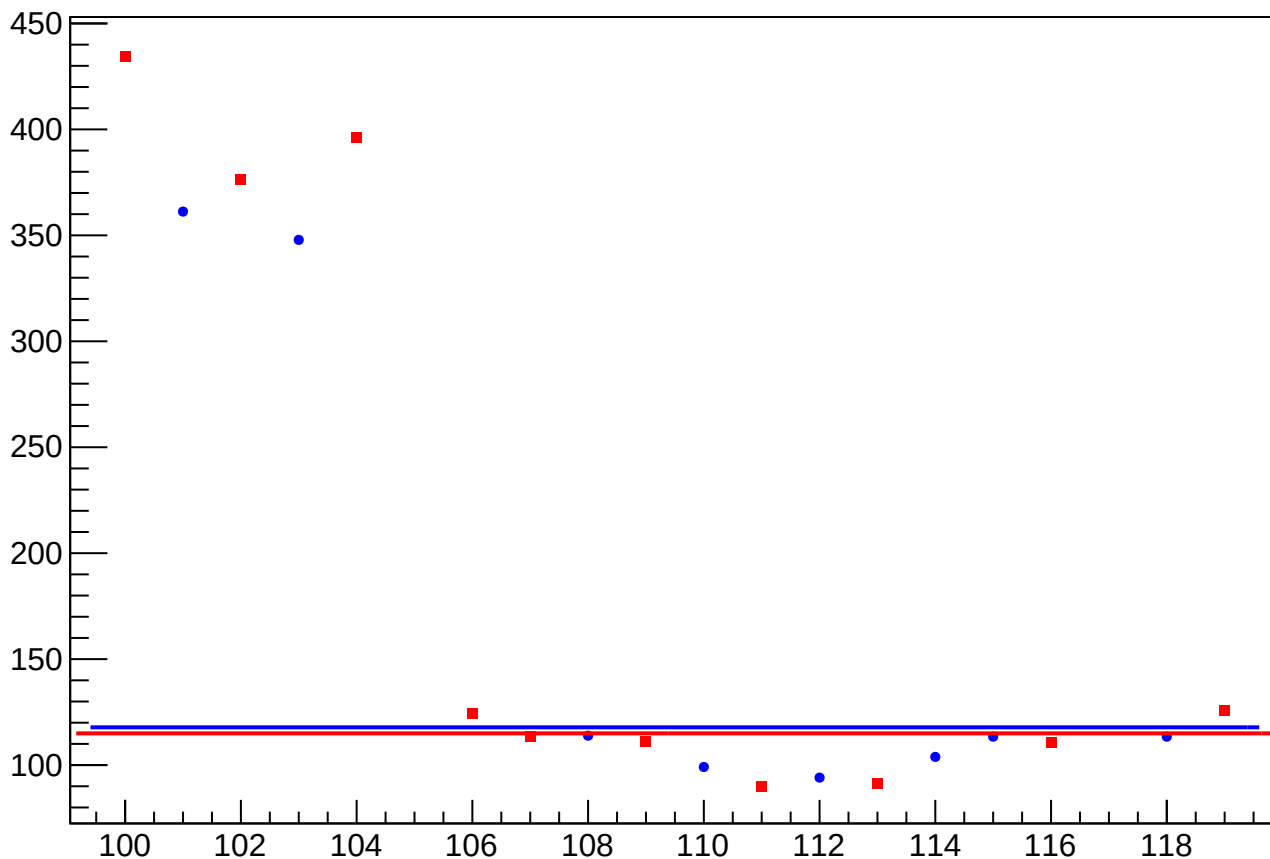
Right Out: 143219.436 $\pm$ 0.063  $\chi^2$ /NDF: 233164258.6/9

All: 143193.406 $\pm$ 0.048  $\chi^2$ /NDF: 435575479

- 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: 117.819 $\pm$ 0.052  $\chi^2$ /NDF: 1183062.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 114.971 $\pm$ 0.045  $\chi^2$ /NDF: 1363923.6/9

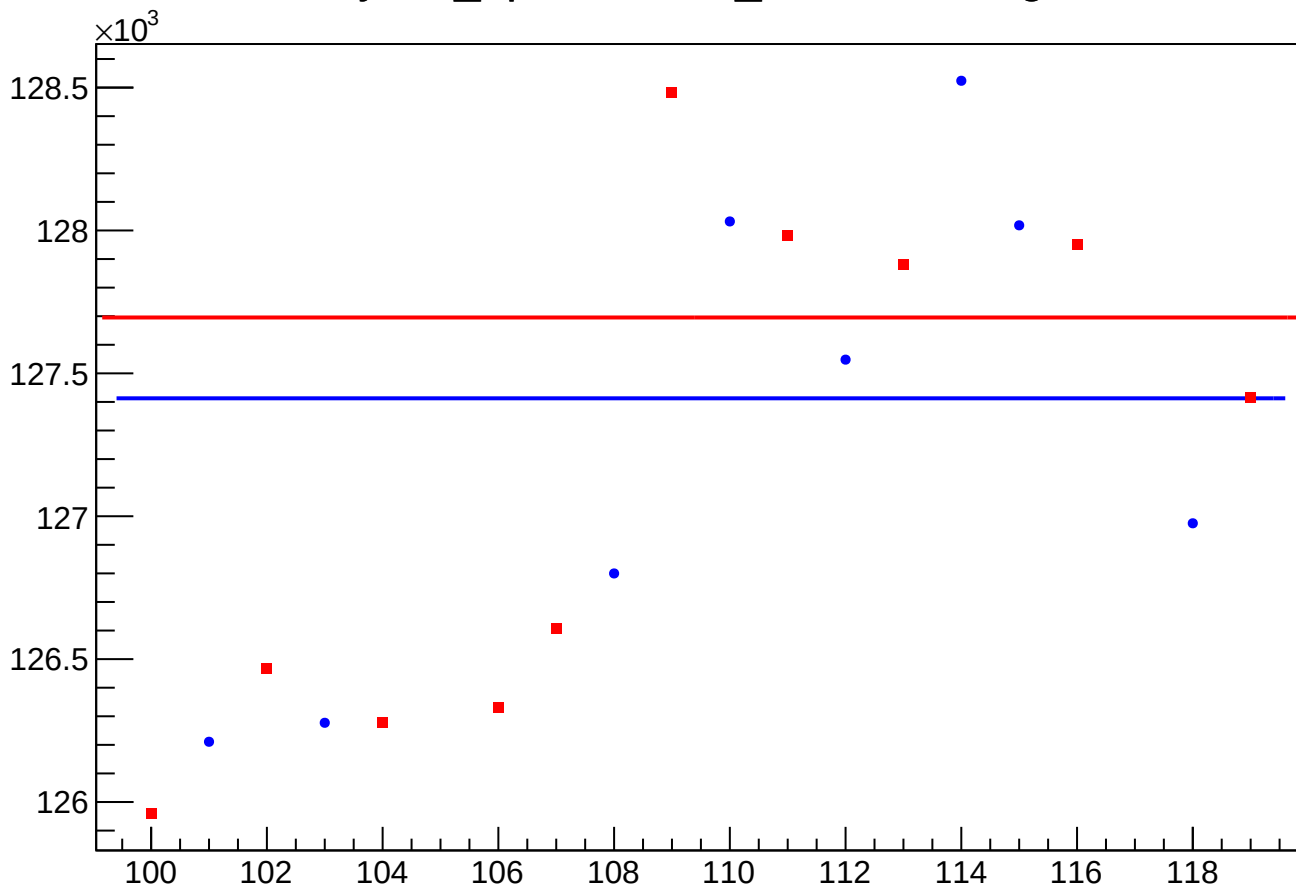
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 116.183 $\pm$ 0.034  $\chi^2$ /NDF: 2548709.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l01WS\_mean vs Slug



Right In: 127412.667 $\pm$ 0.091  $\chi^2$ /NDF: 54613518.3/7

+ 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

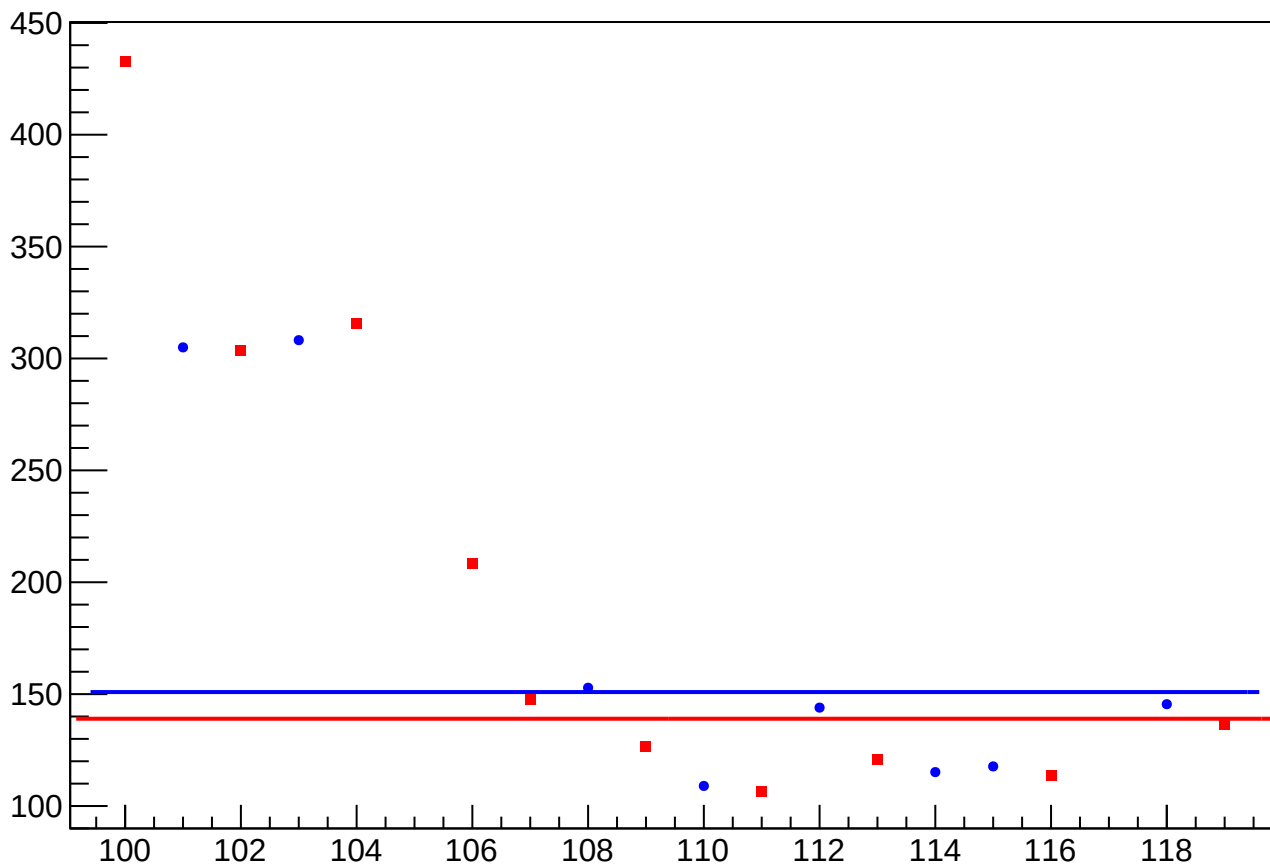
All: 127580.529 $\pm$ 0.058  $\chi^2$ /NDF: 13437386

Right Out: 127695.516 $\pm$ 0.075  $\chi^2$ /NDF: 73973510.2/9

- 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: 150.924 $\pm$ 0.064  $\chi^2$ /NDF: 798446.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 139.005 $\pm$ 0.053  $\chi^2$ /NDF: 968839.8/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

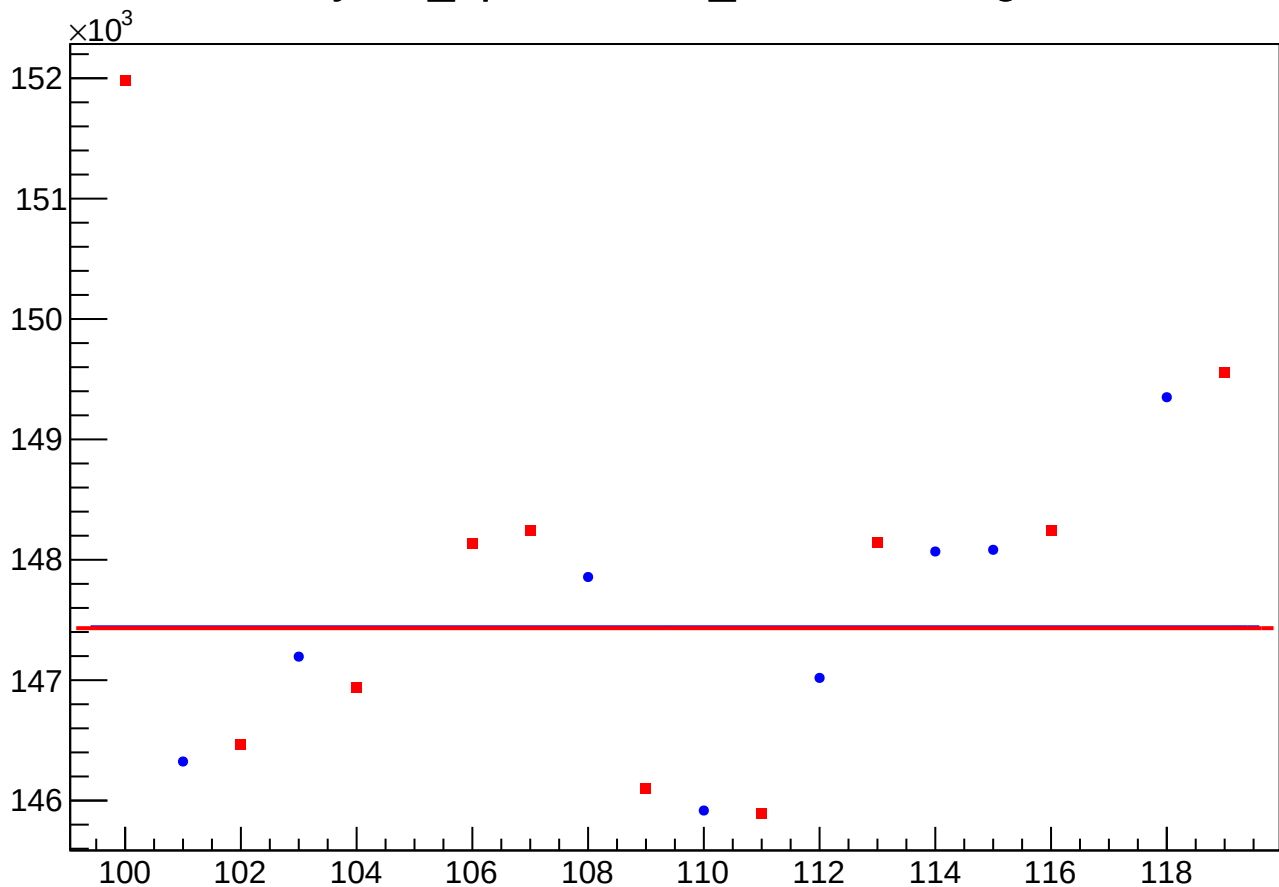
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 143.850 $\pm$ 0.041  $\chi^2$ /NDF: 1787839.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bpm0l02WS\_mean vs Slug



Right In: 147438.907 $\pm$ 0.137  $\chi^2$ /NDF: 53834250.7/7

+ 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

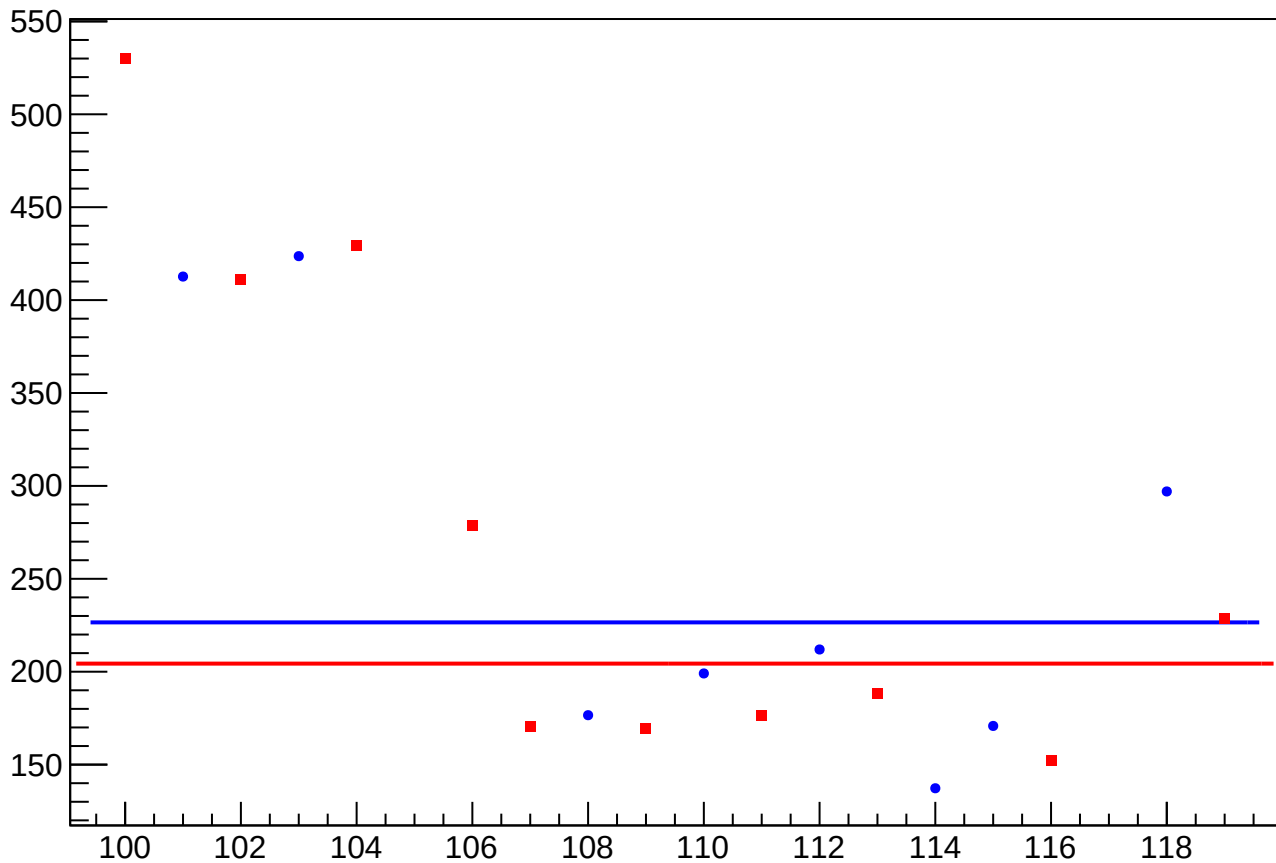
All: 147434.727 $\pm$ 0.086  $\chi^2$ /NDF: 195785342

Right Out: 147432.007 $\pm$ 0.110  $\chi^2$ /NDF: 141949545.6/9

- 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: 226.547 $\pm$ 0.097  $\chi^2$ /NDF: 785129.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 204.358 $\pm$ 0.078  $\chi^2$ /NDF: 861400.0/9

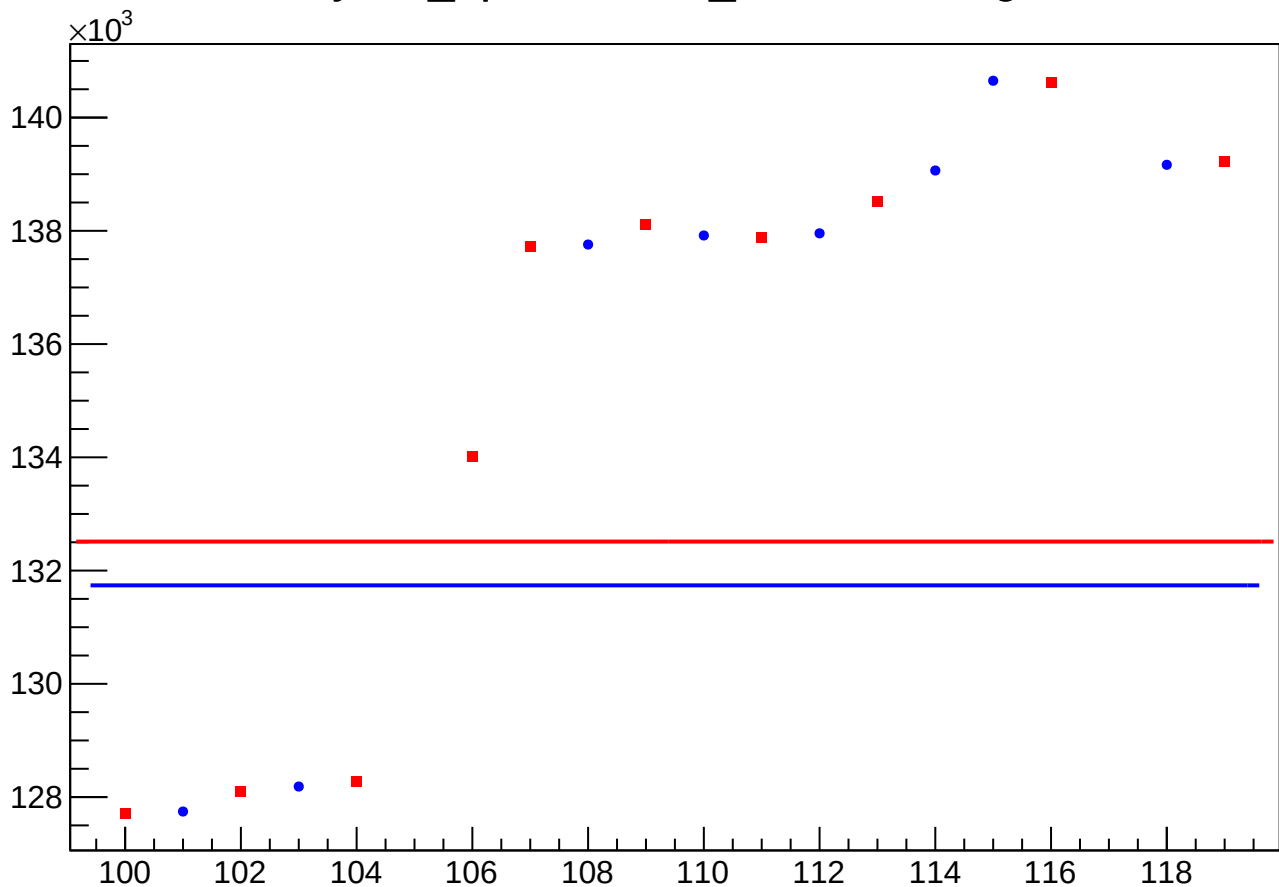
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 213.105 $\pm$ 0.061  $\chi^2$ /NDF: 1678519.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l03WS\_mean vs Slug



Right In: 131739.038 $\pm$ 0.226  $\chi^2$ /NDF: 501844400.9/7

+ 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

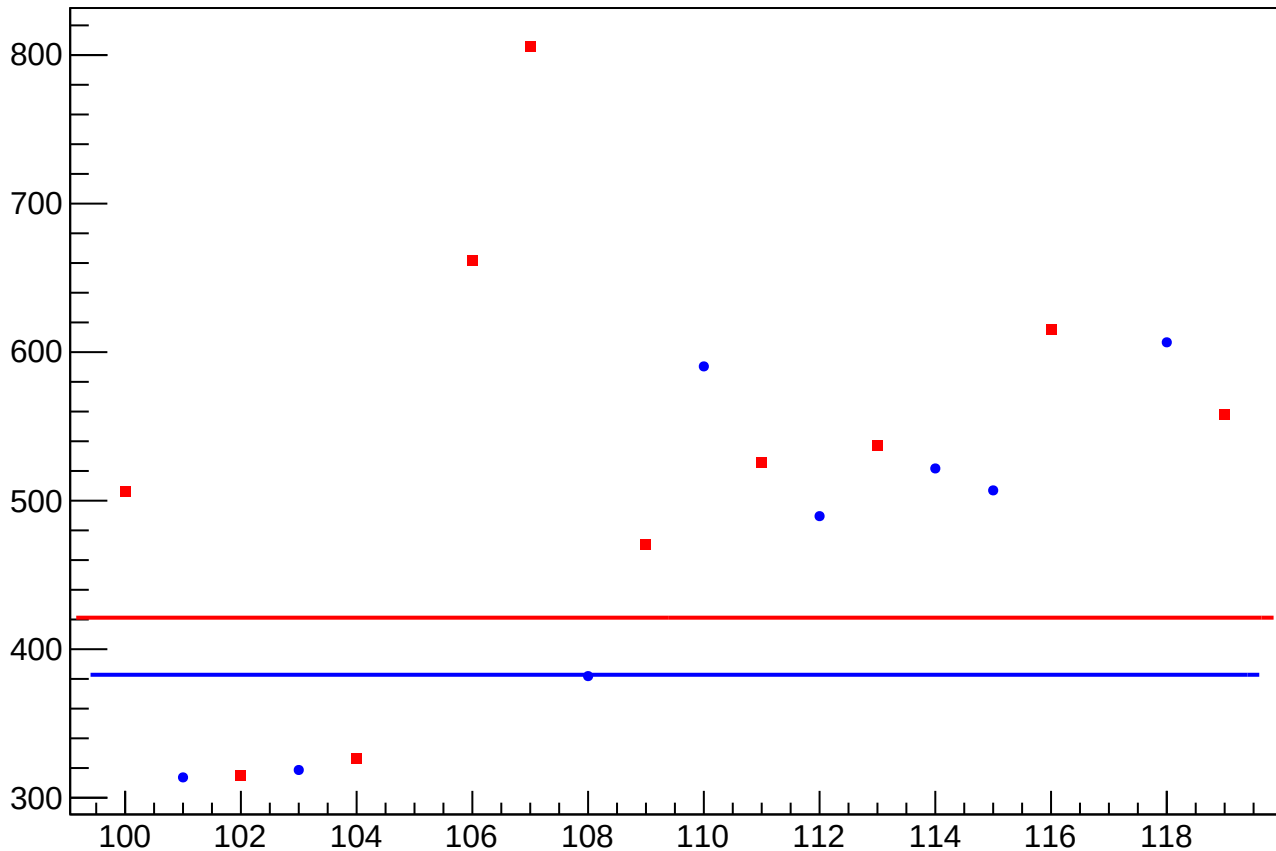
Right Out: 132512.110 $\pm$ 0.221  $\chi^2$ /NDF: 526358387.4/9

All: 132133.359 $\pm$ 0.158  $\chi^2$ /NDF: 103419555

- 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: 382.791+/-0.159  $\chi^2/\text{NDF}$ : 409891.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 421.231+/-0.156  $\chi^2/\text{NDF}$ : 620503.1/9

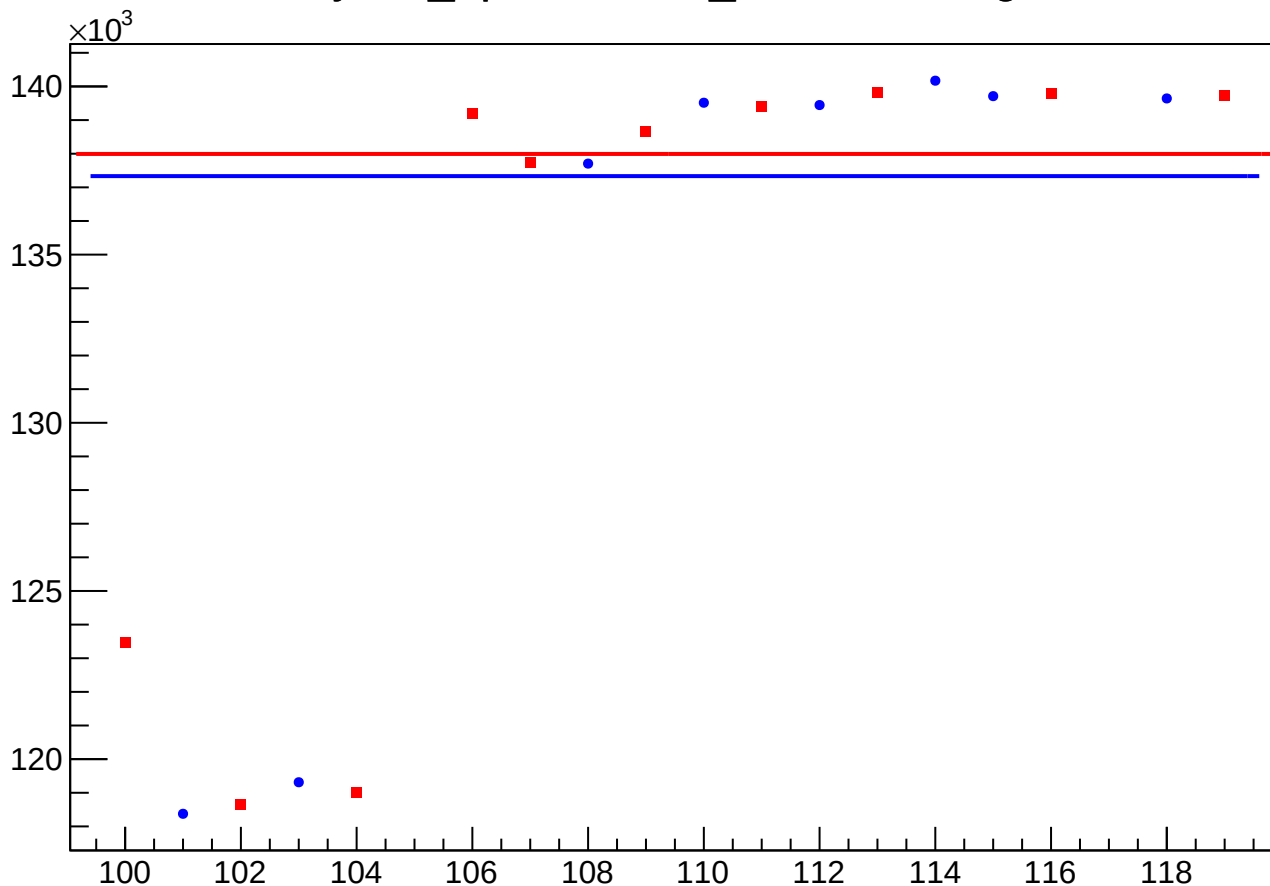
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 402.398+/-0.112  $\chi^2/\text{NDF}$ : 1060028.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04WS\_mean vs Slug



Right In: 137333.978 $\pm$ 0.093  $\chi^2$ /NDF: 4334234986.5/7

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

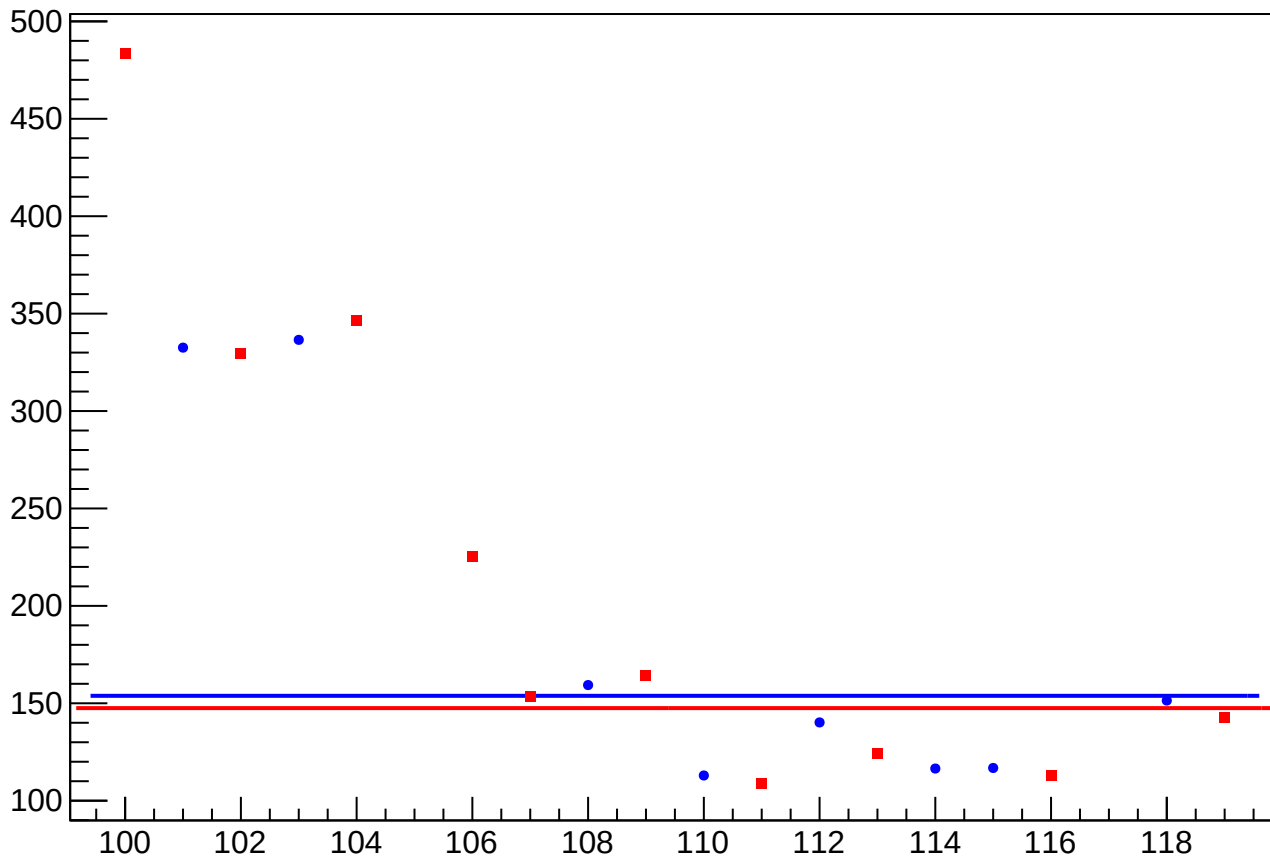
Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 137993.307 $\pm$ 0.080  $\chi^2$ /NDF: 4184997762.3/9 All: 137712.900 $\pm$ 0.061  $\chi^2$ /NDF: 854813818

- 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: 153.834 $\pm$ 0.066  $\chi^2$ /NDF: 883943.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 147.522 $\pm$ 0.057  $\chi^2$ /NDF: 1072643.0/9

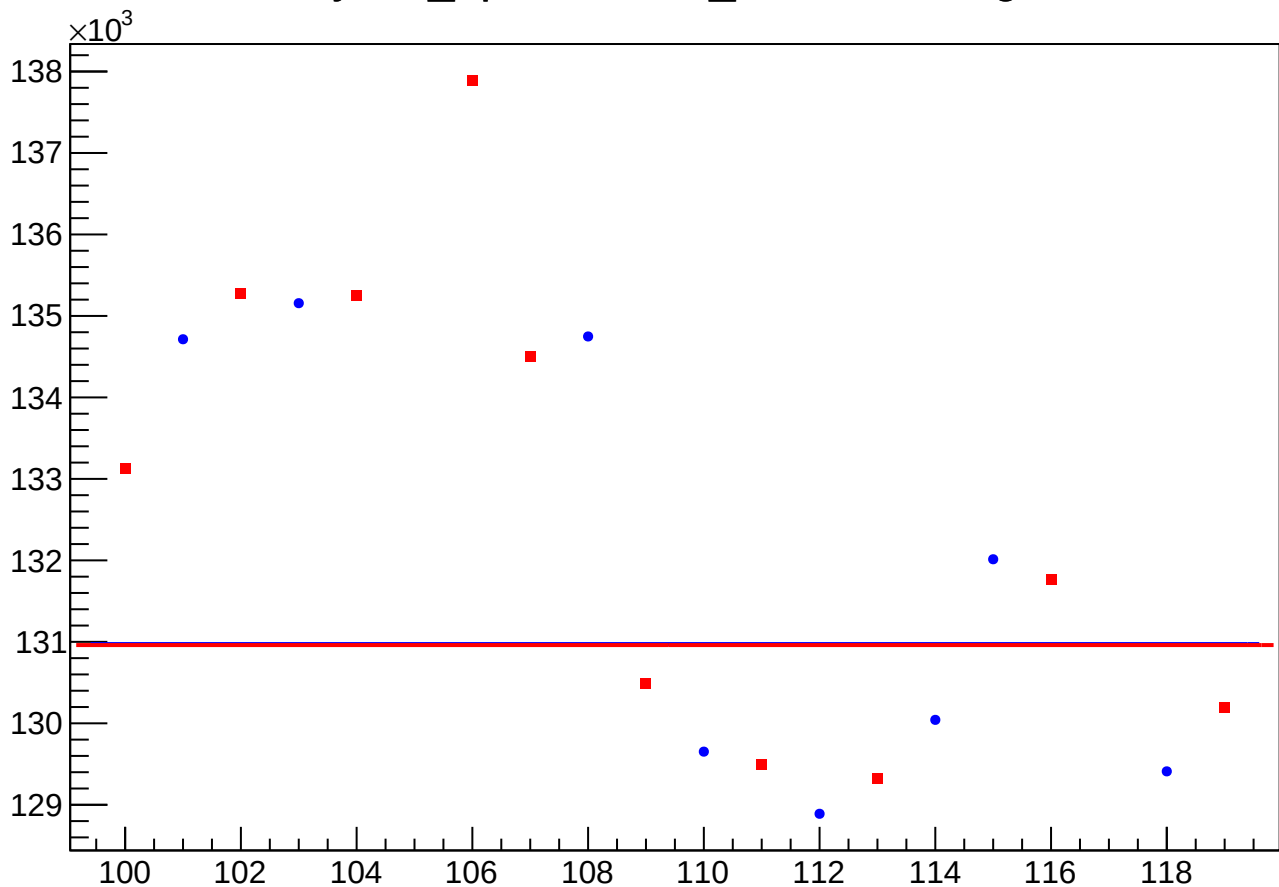
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 150.206 $\pm$ 0.043  $\chi^2$ /NDF: 1961884.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l05WS\_mean vs Slug



Right In: 130972.685 $\pm$ 0.106  $\chi^2$ /NDF: 499404446.3/7

+ 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

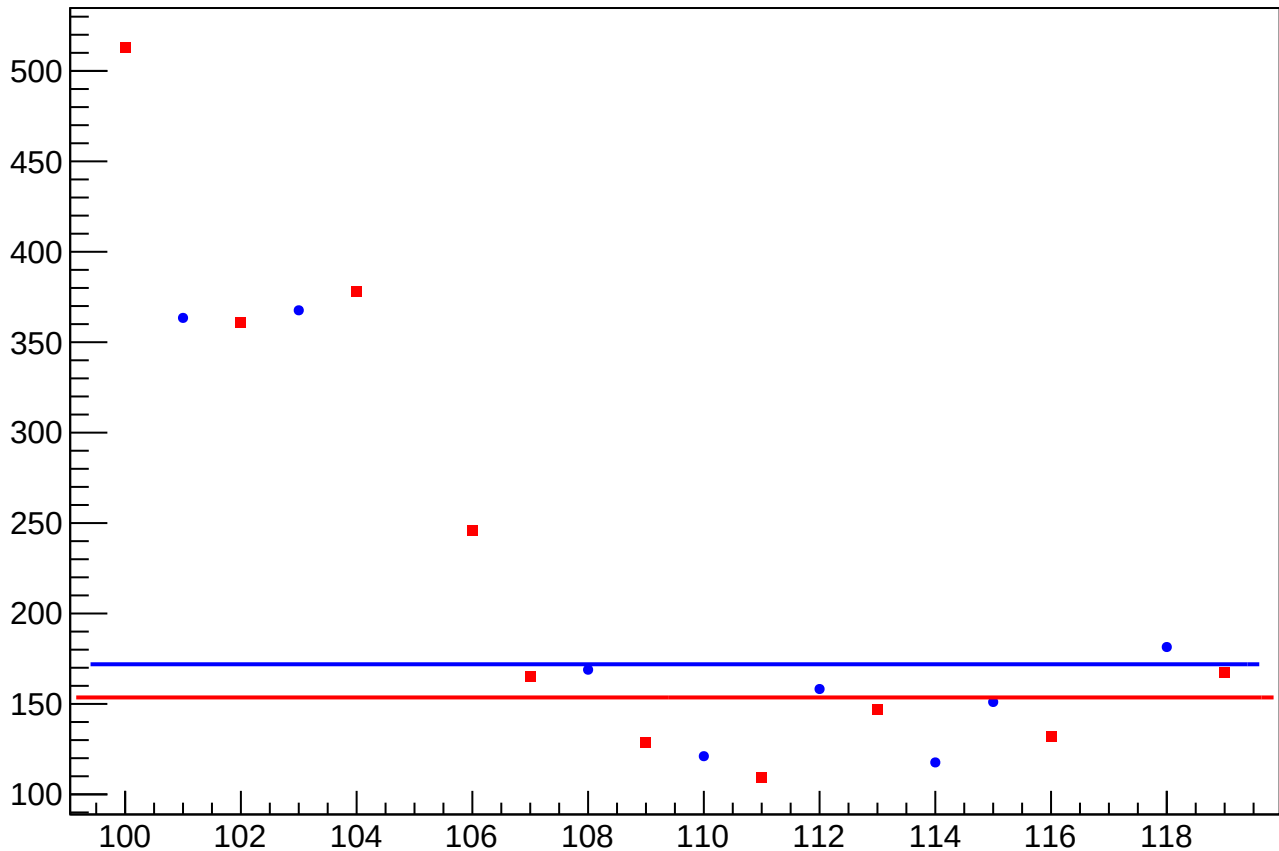
All: 130965.271 $\pm$ 0.066  $\chi^2$ /NDF: 113398593

Right Out: 130960.469 $\pm$ 0.085  $\chi^2$ /NDF: 634573414.4/9

- 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: 171.929+/-0.075  $\chi^2/\text{NDF}$ : 884122.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 153.582+/-0.060  $\chi^2/\text{NDF}$ : 1139786.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

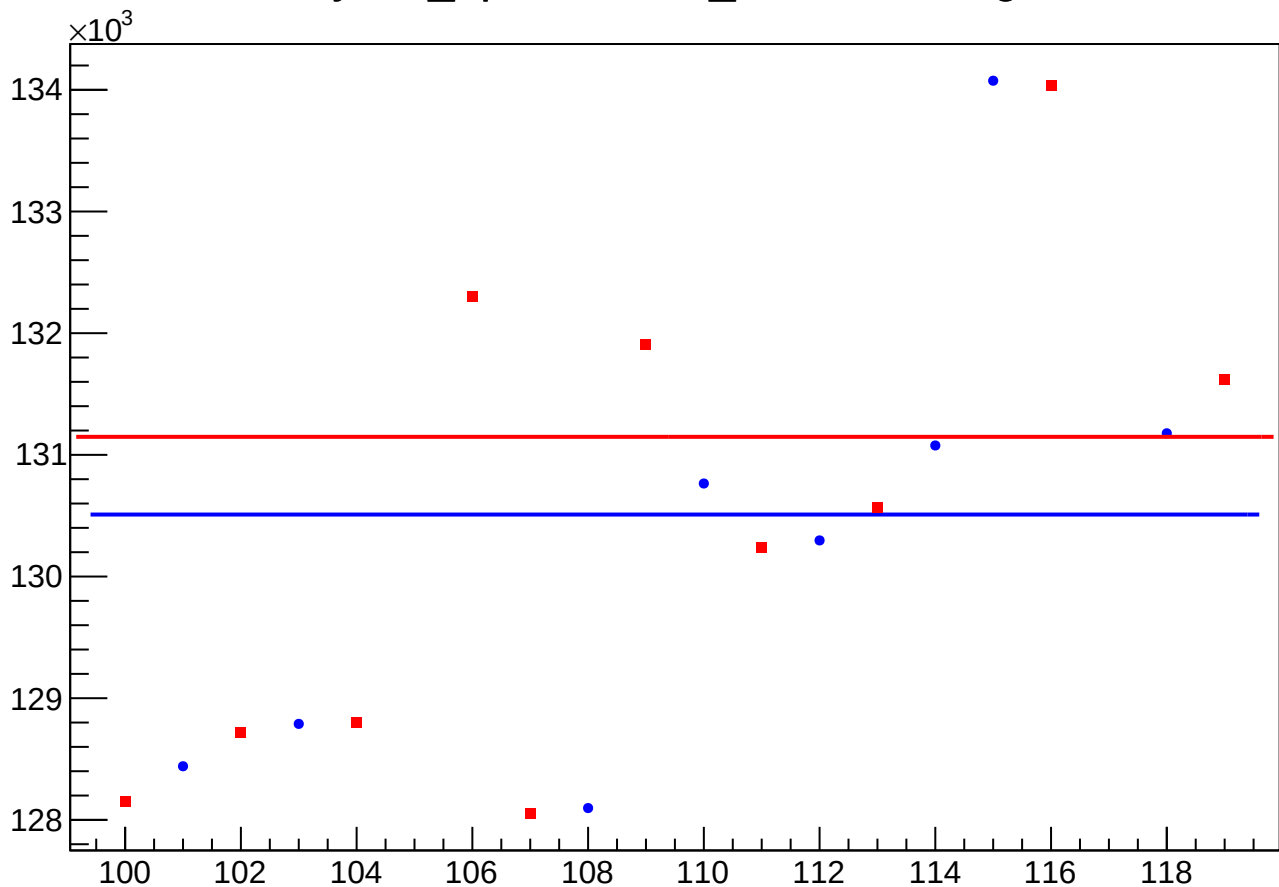
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 160.795+/-0.047  $\chi^2/\text{NDF}$ : 2060315.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l06WS\_mean vs Slug



Right In: 130509.562 $\pm$ 0.089  $\chi^2$ /NDF: 294289726.9/7

+ 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

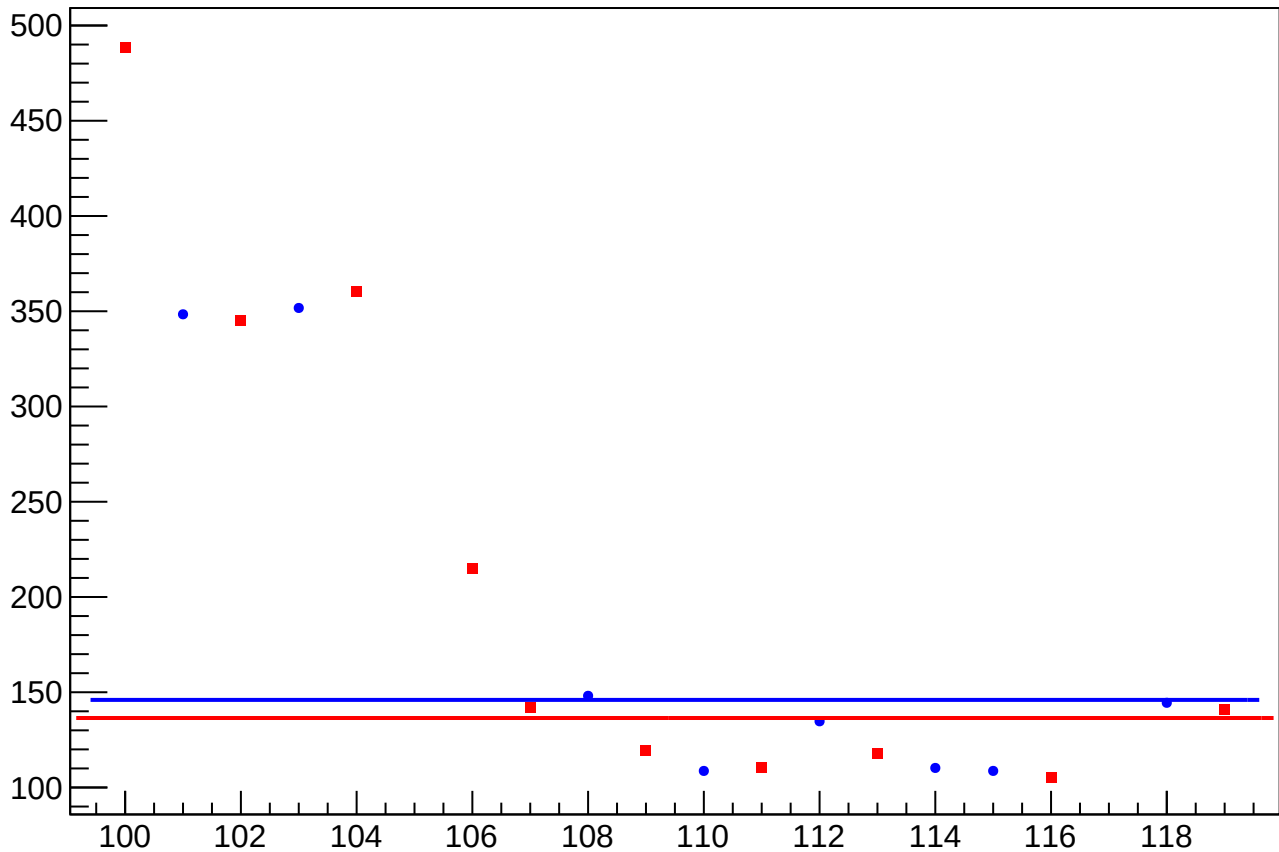
Right Out: 131148.182 $\pm$ 0.075  $\chi^2$ /NDF: 430804971.5/9

All: 130885.322 $\pm$ 0.057  $\chi^2$ /NDF: 755293485

- 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: 145.981+/-0.063  $\chi^2/\text{NDF}$ : 998125.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 136.478+/-0.053  $\chi^2/\text{NDF}$ : 1157092.3/9

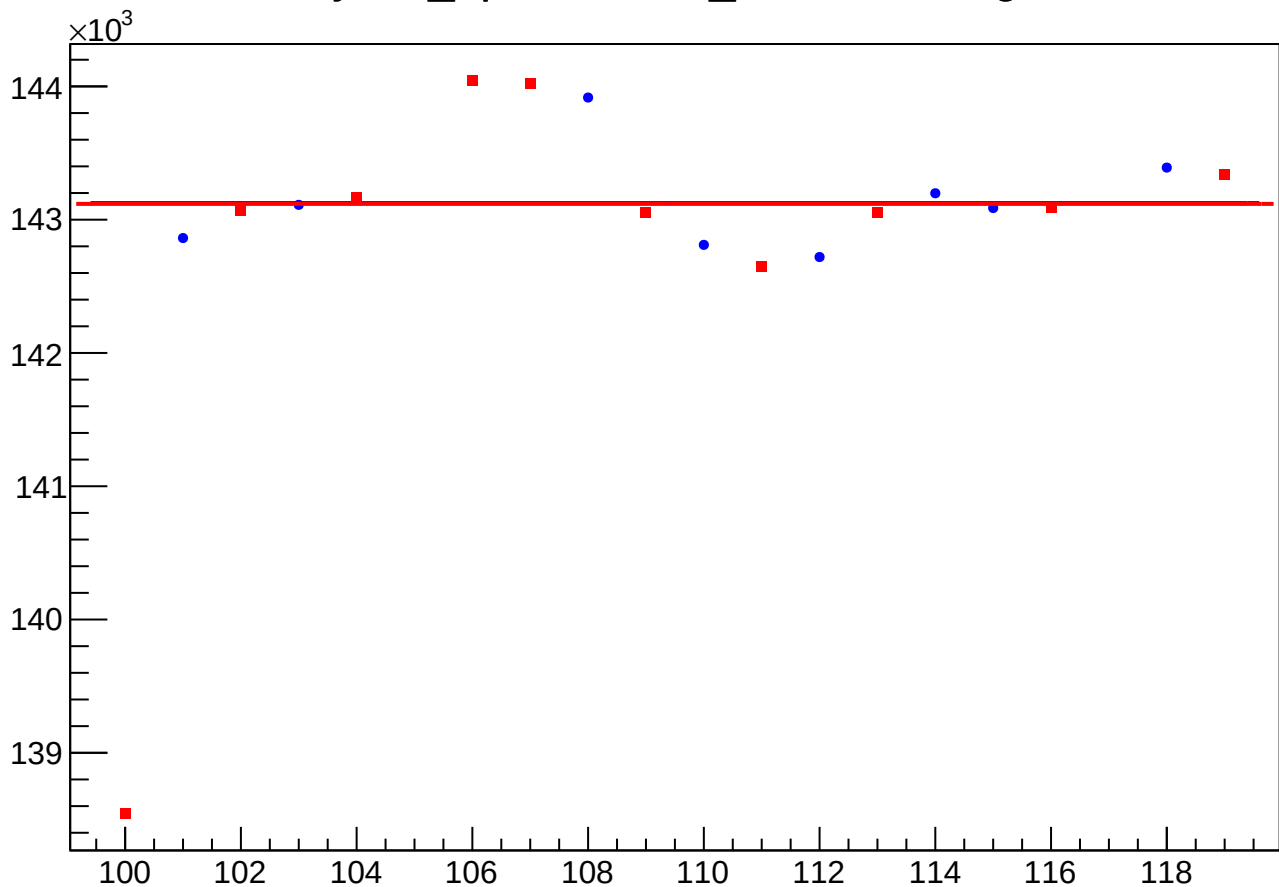
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 140.389+/-0.040  $\chi^2/\text{NDF}$ : 2168592.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07WS\_mean vs Slug



Right In: 143124.416 $\pm$ 0.096  $\chi^2$ /NDF: 17147343.1/7

+ 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

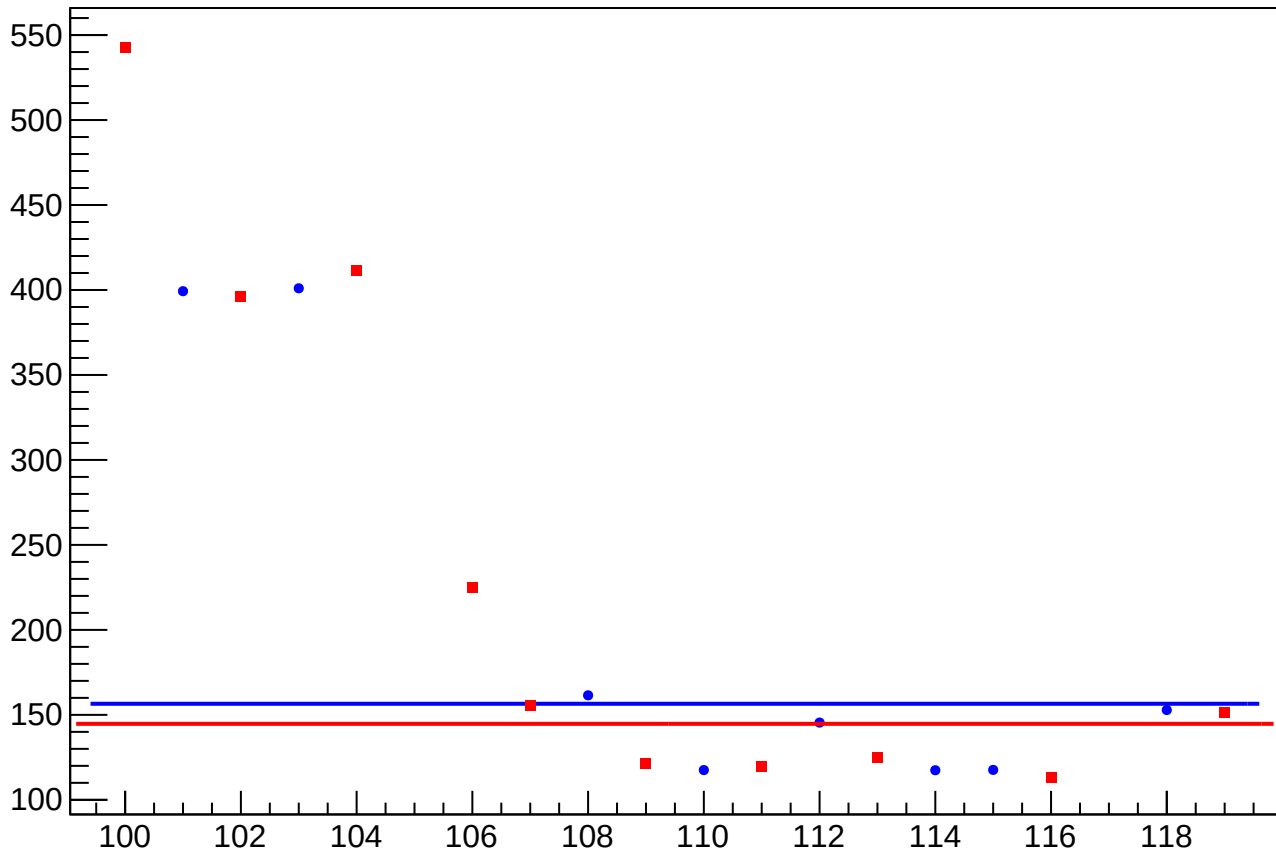
Right Out: 143118.534 $\pm$ 0.079  $\chi^2$ /NDF: 26194613.2/9

All: 143120.922 $\pm$ 0.061  $\chi^2$ /NDF: 43344181.0

- 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\_bpm0l07WS\_rms vs Slug



Right In: 156.530 $\pm$ 0.068  $\chi^2$ /NDF: 1071616.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 144.726 $\pm$ 0.056  $\chi^2$ /NDF: 1246996.1/9

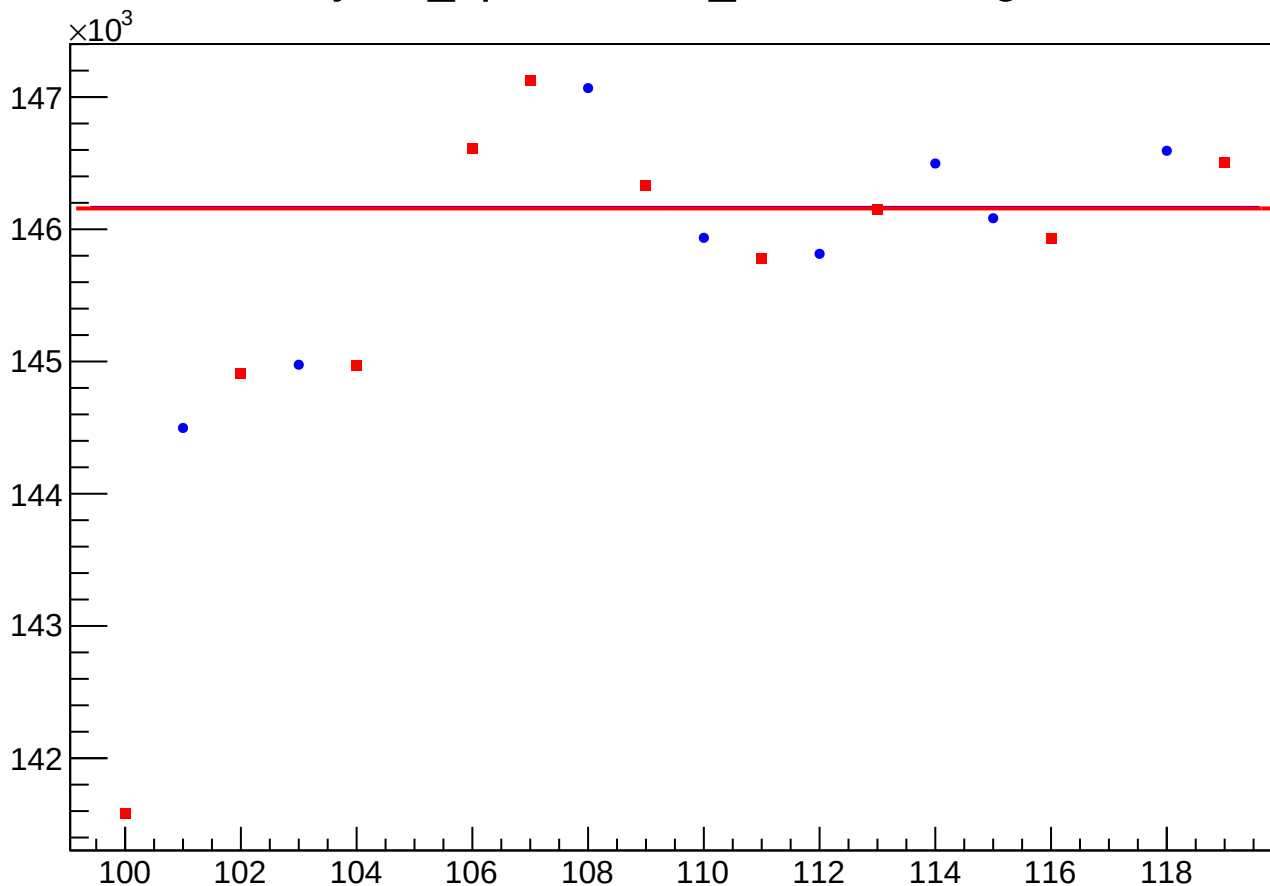
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 149.519 $\pm$ 0.043  $\chi^2$ /NDF: 2336542.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l08WS\_mean vs Slug



Right In: 146162.034 $\pm$ 0.099  $\chi^2$ /NDF: 37208676.4/7

+ 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

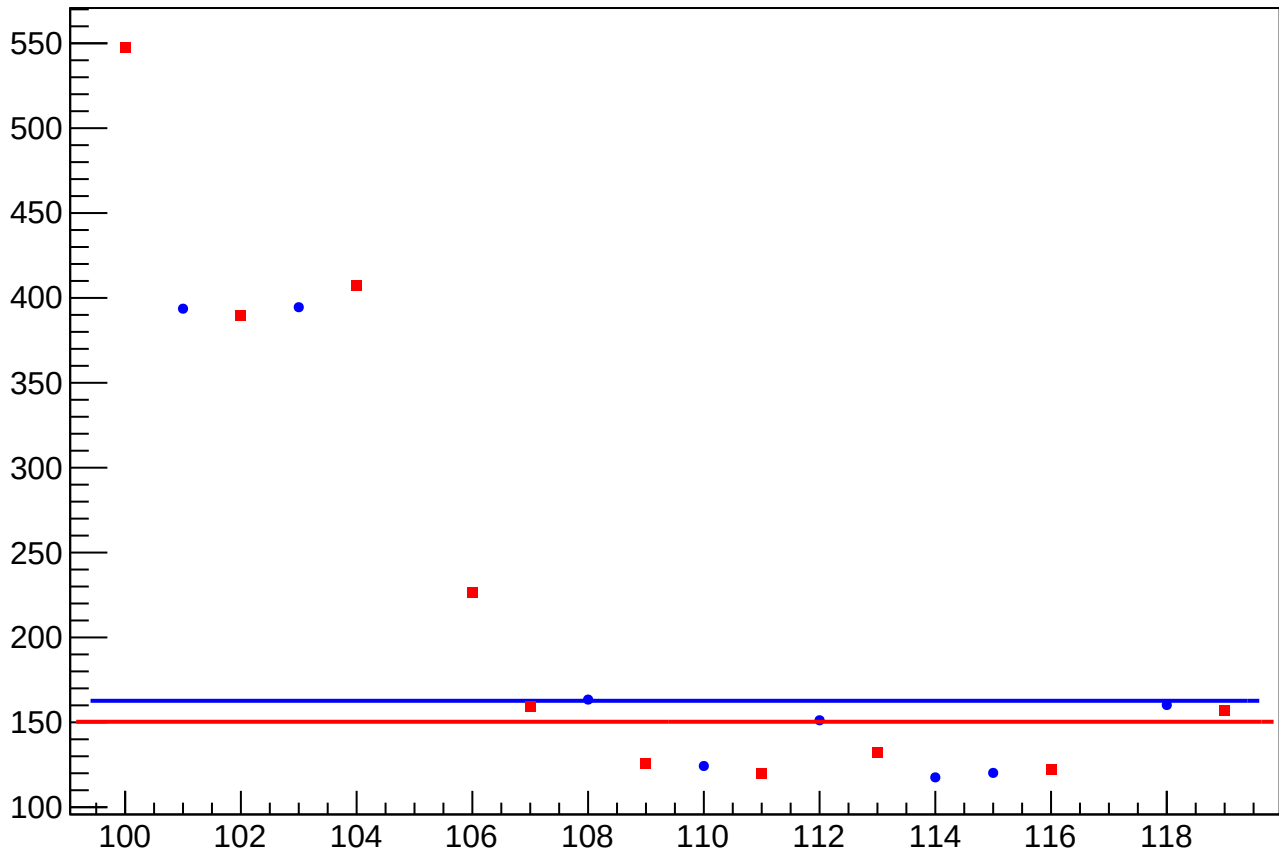
Right Out: 146157.595 $\pm$ 0.082  $\chi^2$ /NDF: 34995844.0/9

All: 146159.395 $\pm$ 0.063  $\chi^2$ /NDF: 72205707.0

- 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: 162.687 $\pm$ 0.070  $\chi^2$ /NDF: 1006564.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 150.339 $\pm$ 0.058  $\chi^2$ /NDF: 1183429.8/9

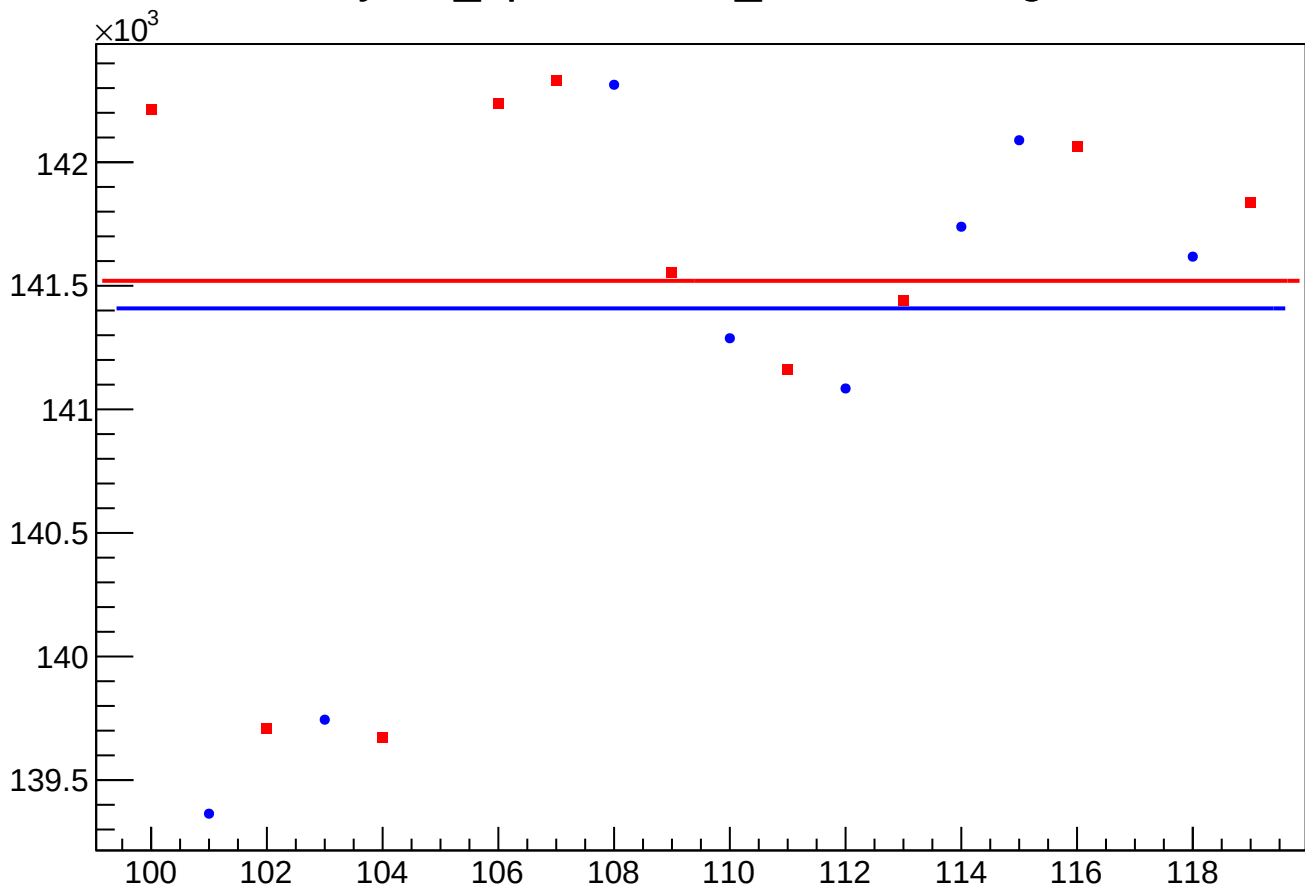
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 155.345 $\pm$ 0.045  $\chi^2$ /NDF: 2208365.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l09WS\_mean vs Slug



Right In: 141408.574 $\pm$ 0.100  $\chi^2$ /NDF: 47448887.0/7

+ 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

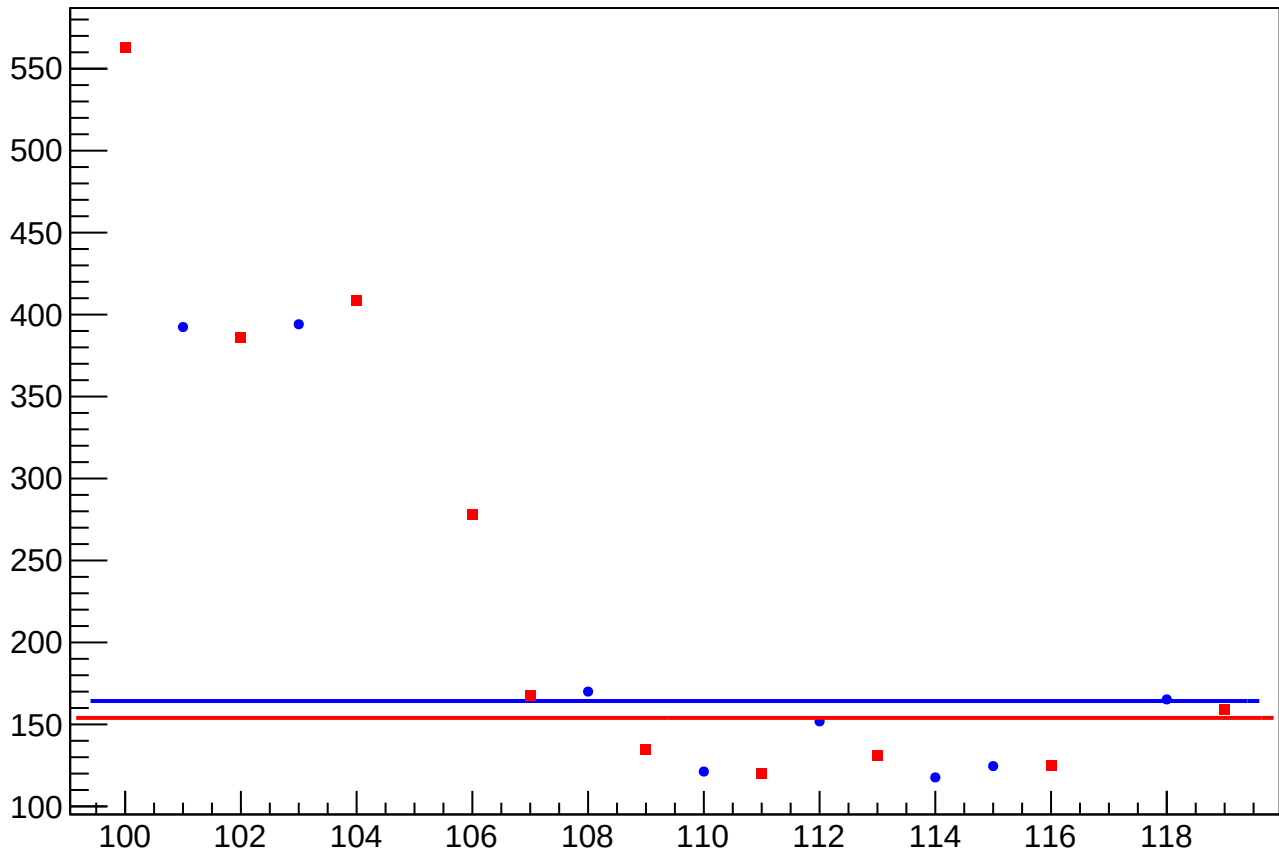
All: 141474.055 $\pm$ 0.065  $\chi^2$ /NDF: 91493296.

Right Out: 141520.162 $\pm$ 0.084  $\chi^2$ /NDF: 43319879.9/9

- 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: 164.277+/-0.071  $\chi^2/\text{NDF}$ : 1009673.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 153.976+/-0.060  $\chi^2/\text{NDF}$ : 1209246.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

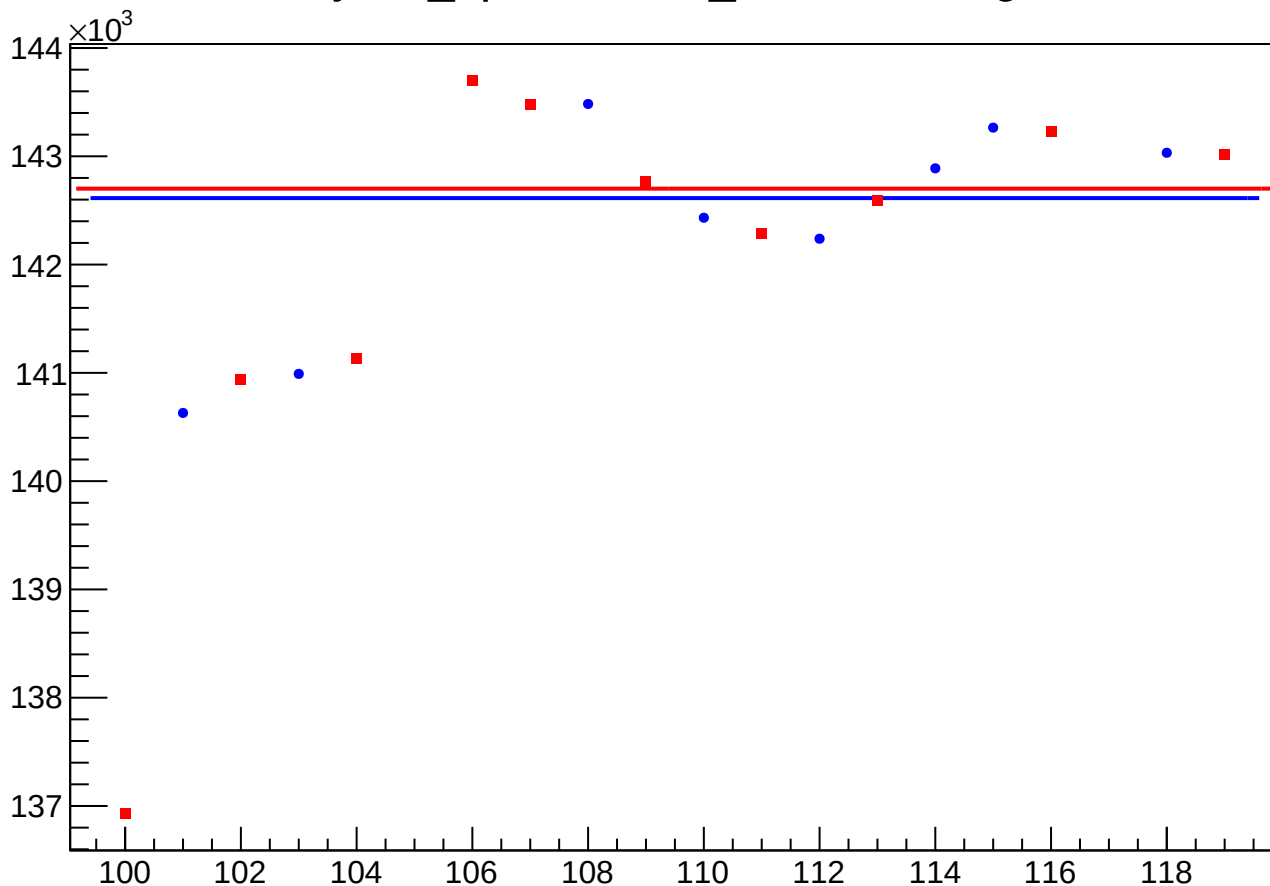
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 158.232+/-0.046  $\chi^2/\text{NDF}$ : 2231268.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l10WS\_mean vs Slug



Right In: 142613.831 $\pm$ 0.102  $\chi^2$ /NDF: 47510657.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 142701.174 $\pm$ 0.084  $\chi^2$ /NDF: 51848182.9/9

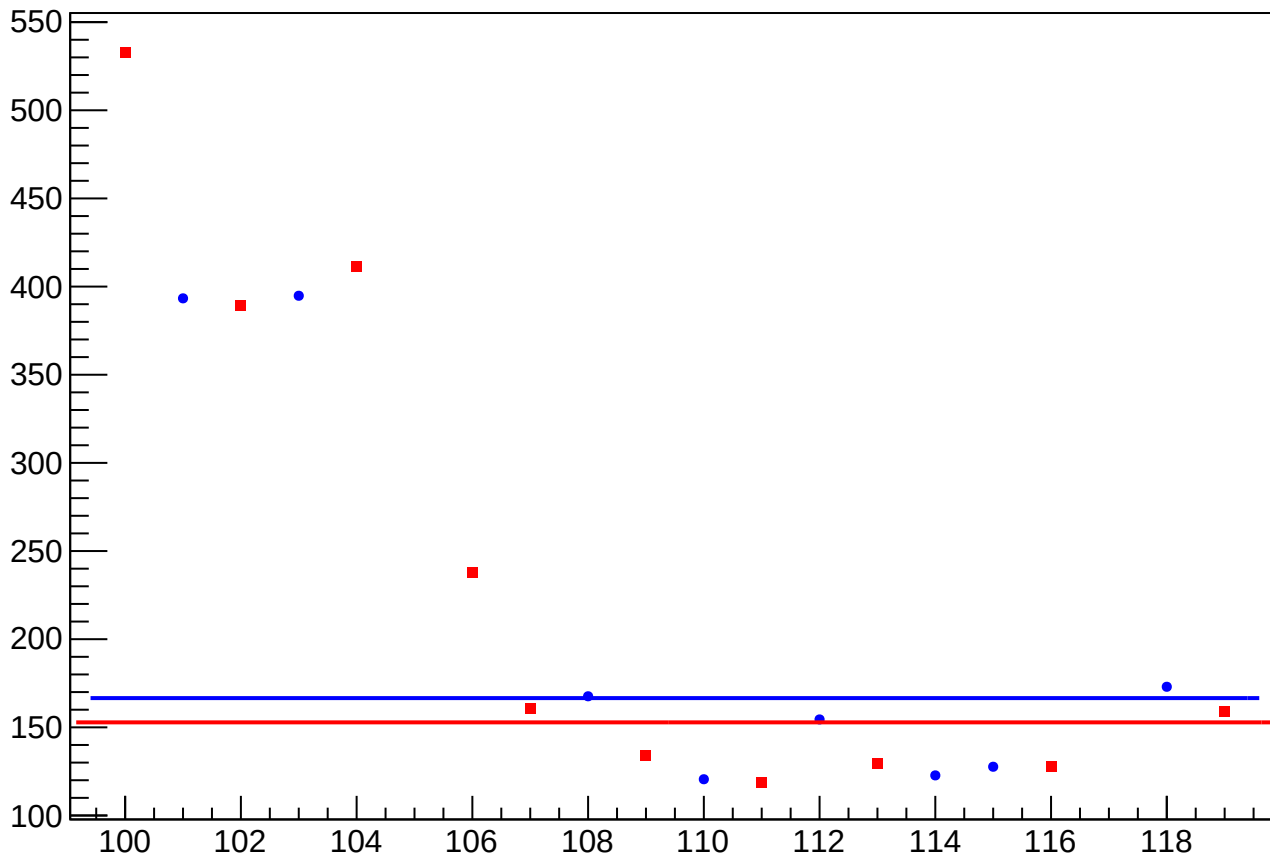
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 142666.007 $\pm$ 0.065  $\chi^2$ /NDF: 99798776.0/16

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l10WS\_rms vs Slug



Right In: 166.586 $\pm$ 0.072  $\chi^2$ /NDF: 1001221.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 152.822 $\pm$ 0.059  $\chi^2$ /NDF: 1169222.3/9

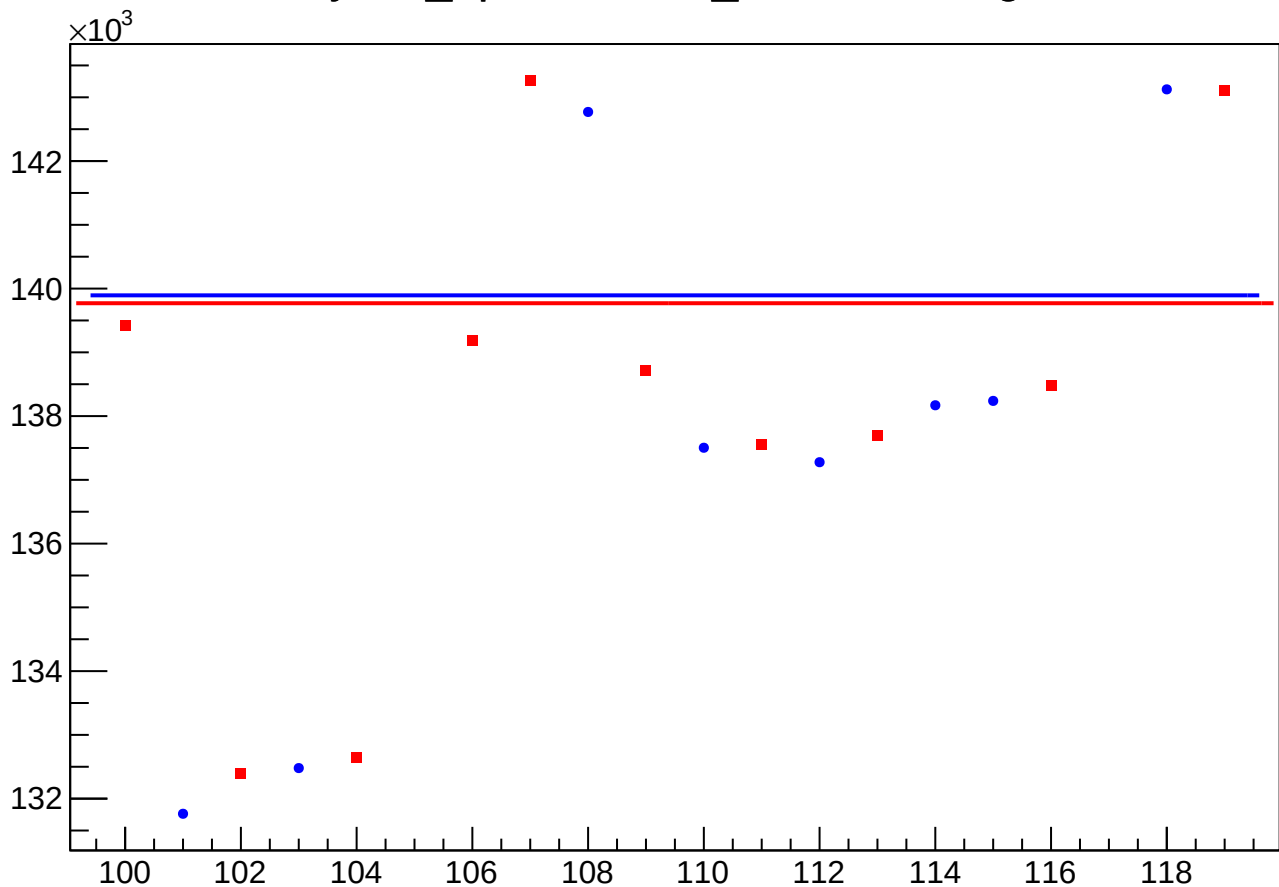
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 158.364 $\pm$ 0.046  $\chi^2$ /NDF: 2192294.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r03WS\_mean vs Slug



Right In: 139893.946 $\pm$ 0.162  $\chi^2$ /NDF: 612866098.6/7

+ 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

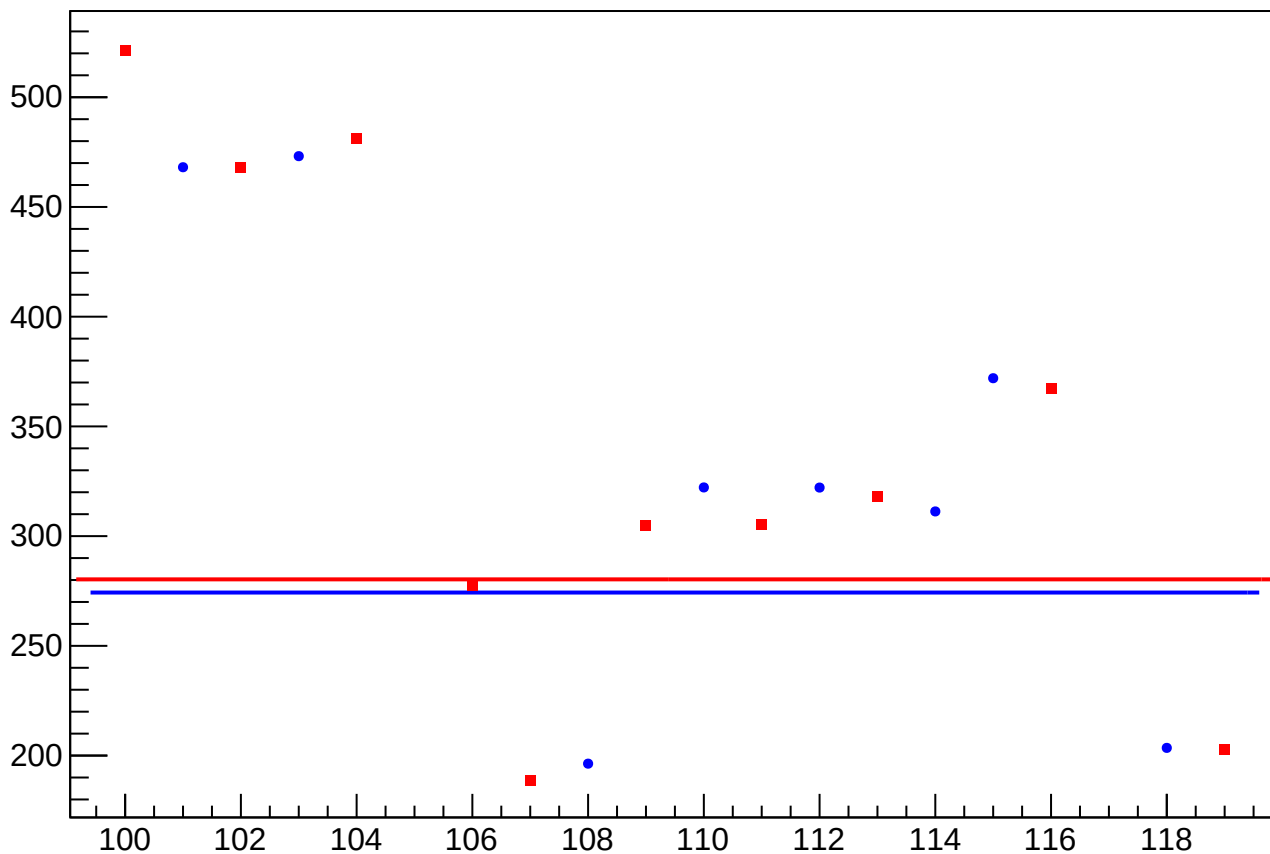
Right Out: 139770.354 $\pm$ 0.148  $\chi^2$ /NDF: 552006479.9/9

All: 139826.653 $\pm$ 0.109  $\chi^2$ /NDF: 11651895

- 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: 274.292 $\pm$ 0.115  $\chi^2$ /NDF: 740193.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 280.299 $\pm$ 0.105  $\chi^2$ /NDF: 735213.5/9

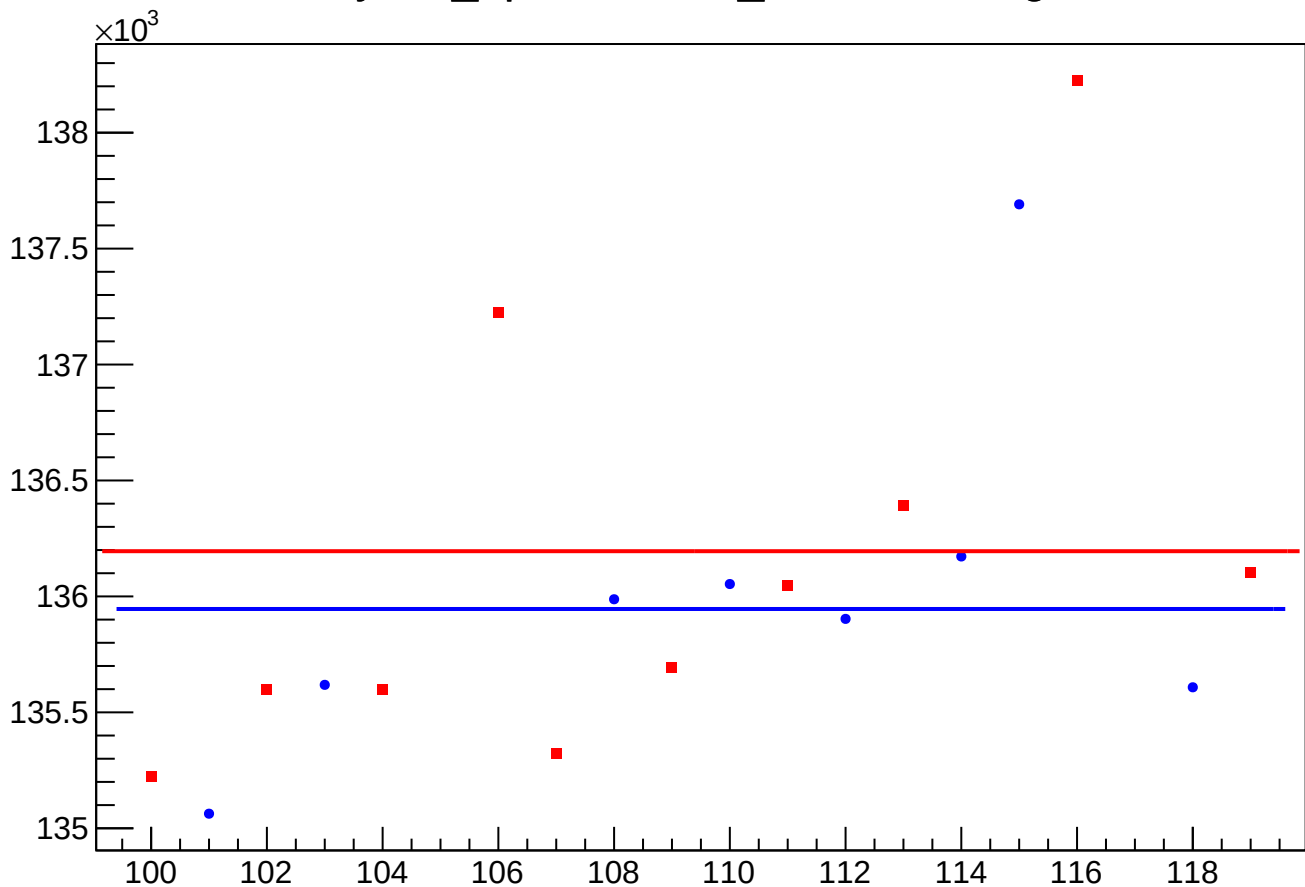
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 277.563 $\pm$ 0.077  $\chi^2$ /NDF: 1476904.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r05WS\_mean vs Slug



Right In: 135945.777 $\pm$ 0.151  $\chi^2$ /NDF: 13864714.3/7

+ 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

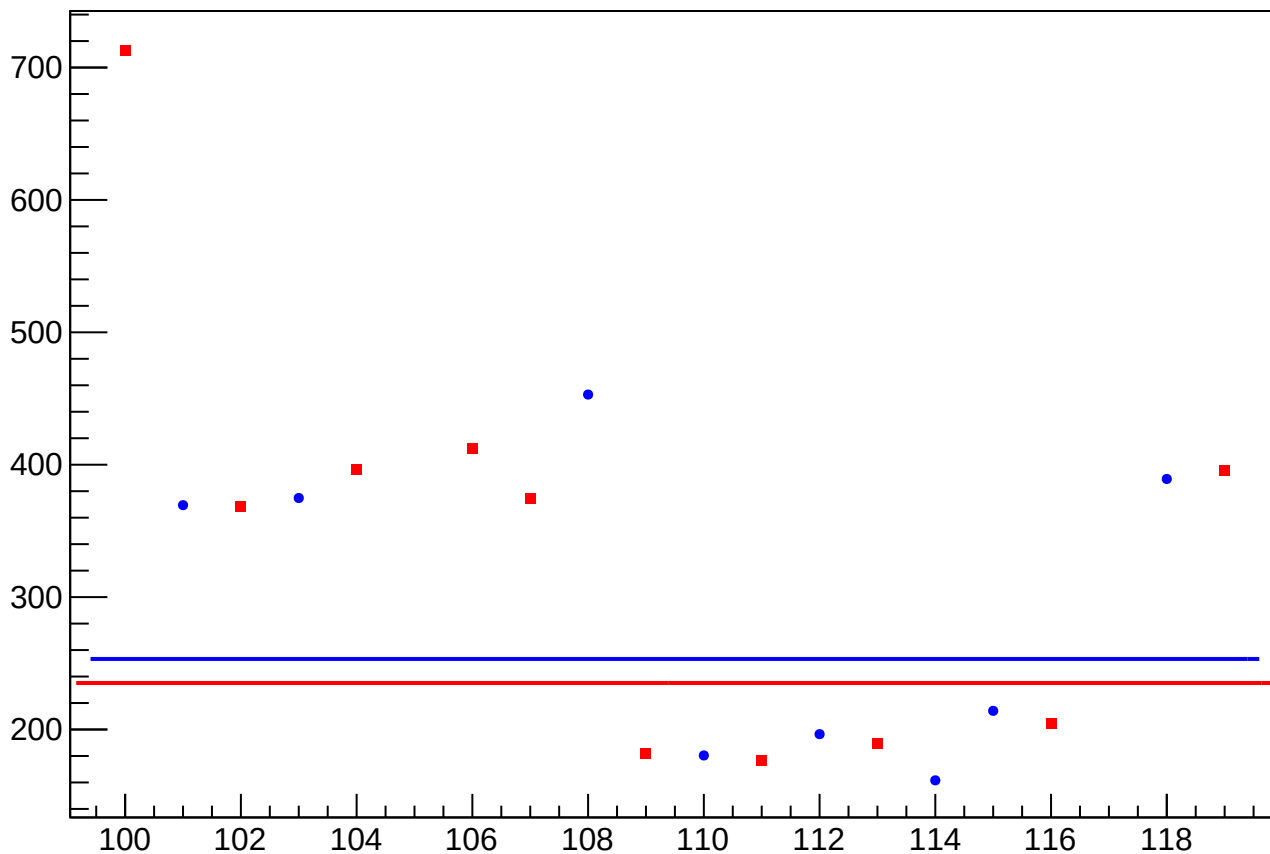
Right Out: 136195.032 $\pm$ 0.127  $\chi^2$ /NDF: 34749257.8/9

All: 136091.681 $\pm$ 0.097  $\chi^2$ /NDF: 50202352.0

- 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\_bpm0r05WS\_rms vs Slug



Right In: 253.292 $\pm$ 0.107  $\chi^2$ /NDF: 803466.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 235.139 $\pm$ 0.090  $\chi^2$ /NDF: 996997.8/9

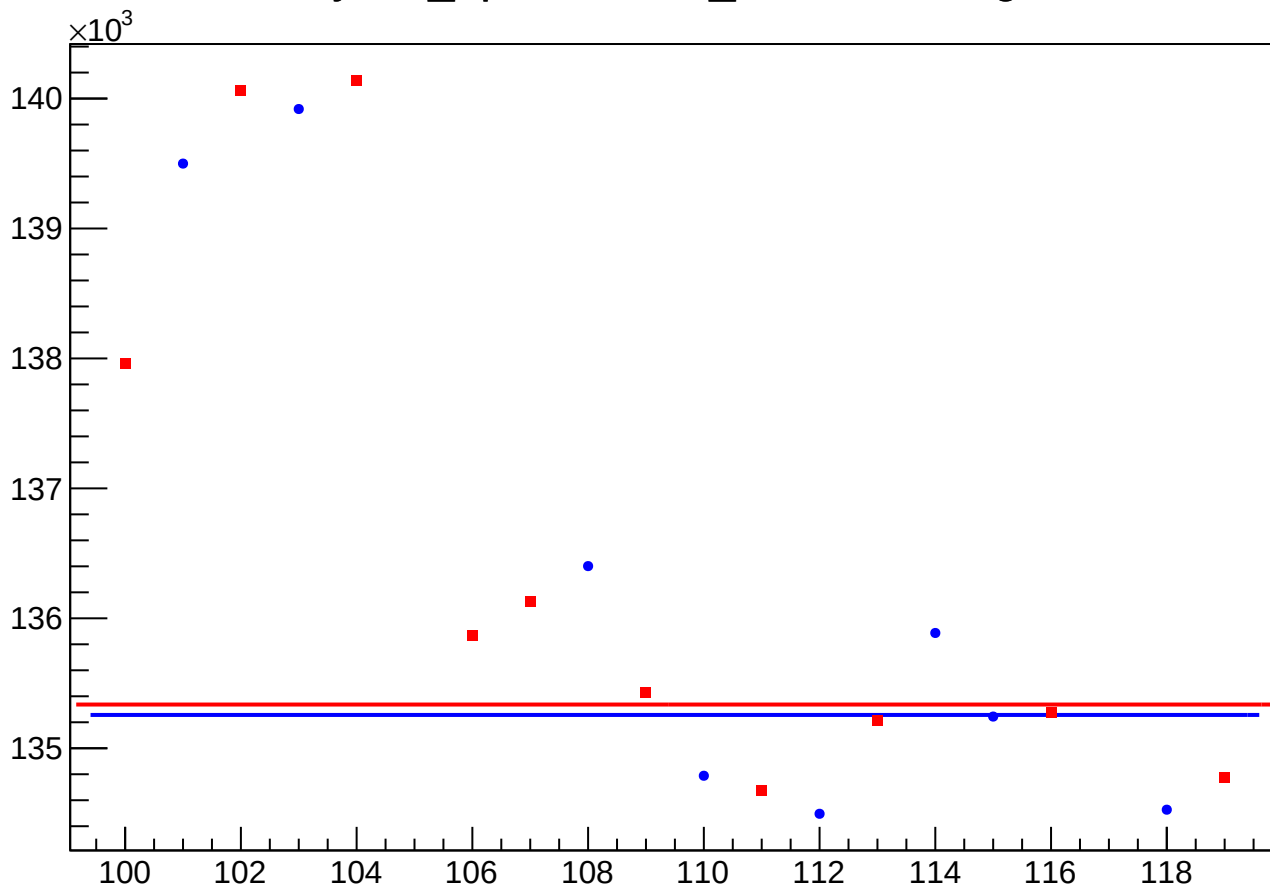
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 242.666 $\pm$ 0.069  $\chi^2$ /NDF: 1817313.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i02WS\_mean vs Slug



Right In: 135256.393 $\pm$ 0.077  $\chi^2$ /NDF: 264572584.8/7

+ 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

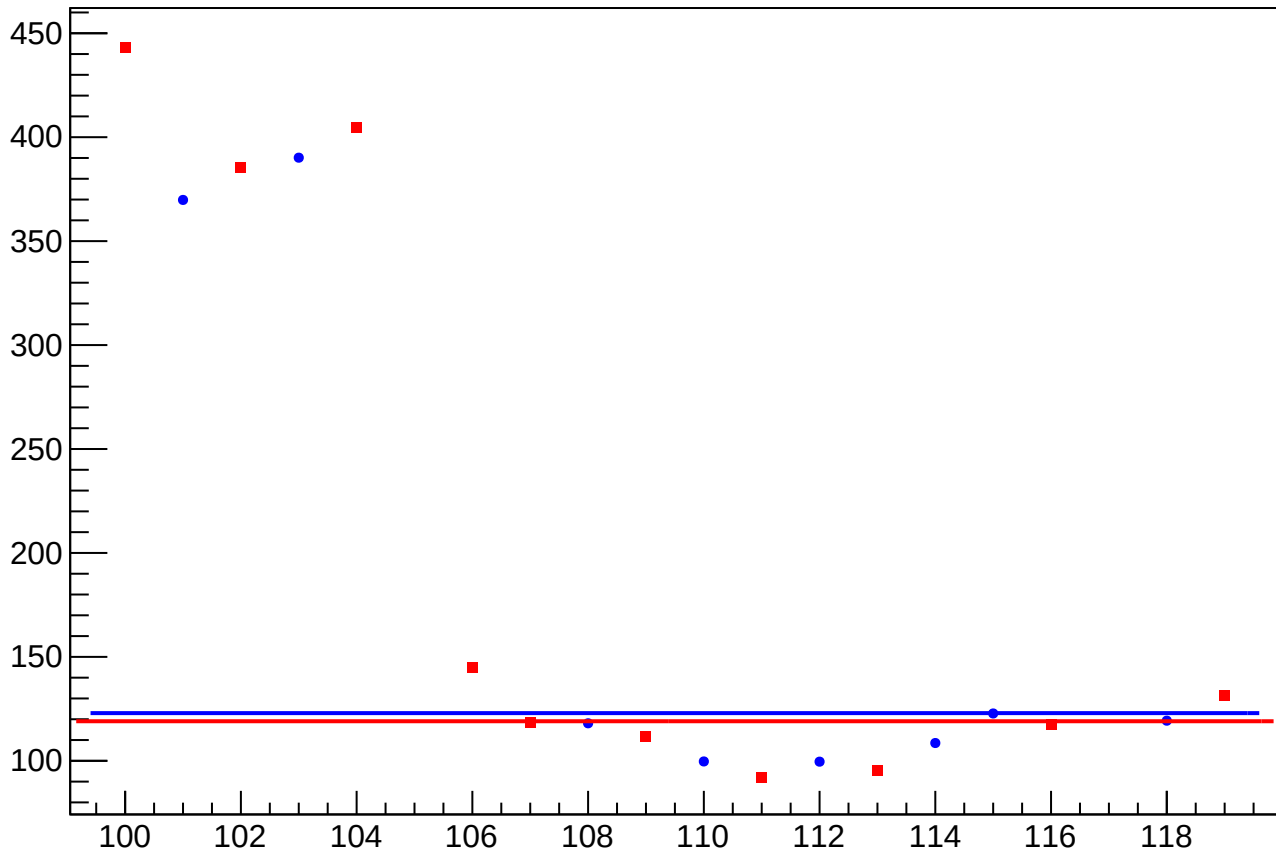
Right Out: 135336.466 $\pm$ 0.067  $\chi^2$ /NDF: 219984591.7/9

All: 135301.946 $\pm$ 0.050  $\chi^2$ /NDF: 485177420

- 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: 122.949 $\pm$ 0.054  $\chi^2$ /NDF: 1241767.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 119.036 $\pm$ 0.047  $\chi^2$ /NDF: 1368754.6/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

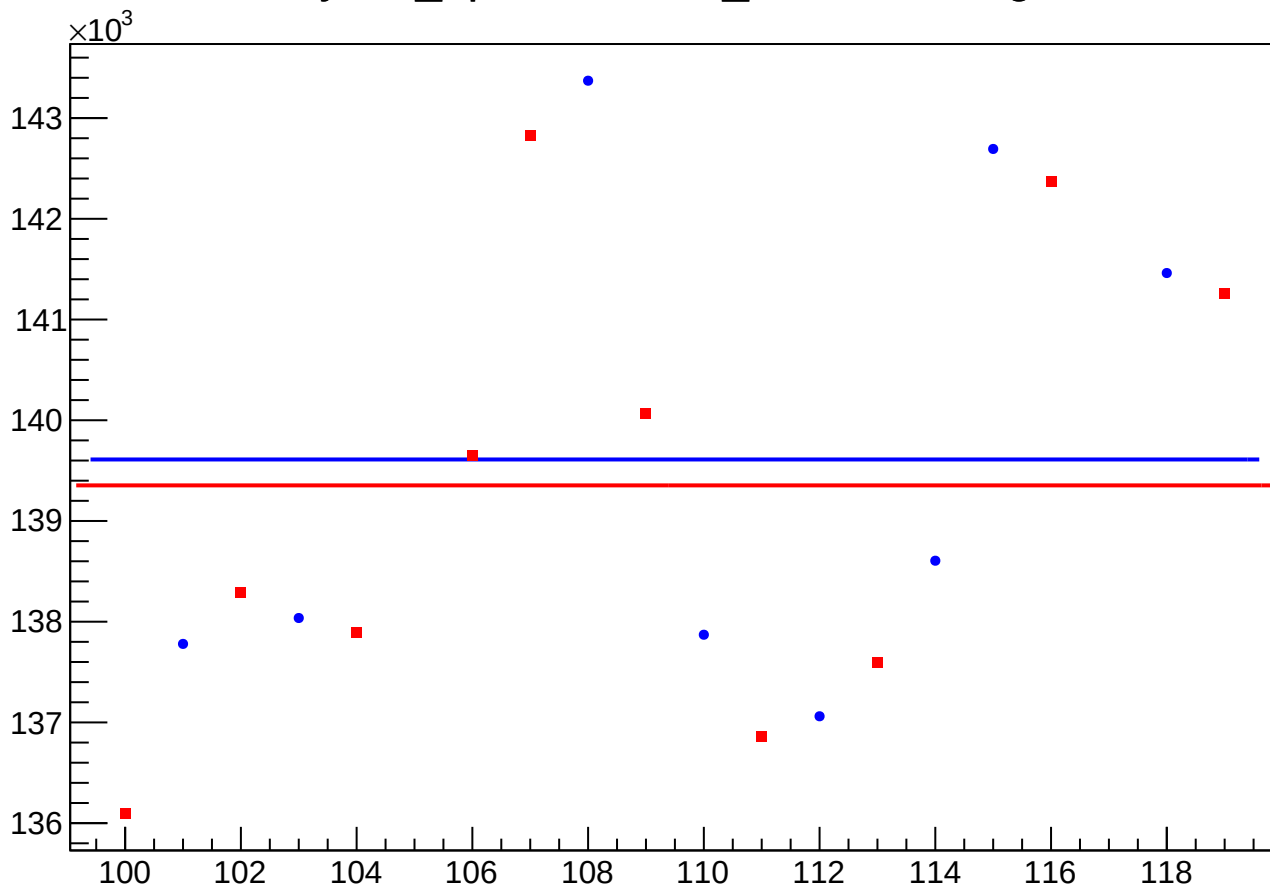
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.723 $\pm$ 0.036  $\chi^2$ /NDF: 2613483.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bpm0i02aWS\_mean vs Slug



Right In: 139610.614 $\pm$ 0.092  $\chi^2$ /NDF: 642410481.7/7

+ 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

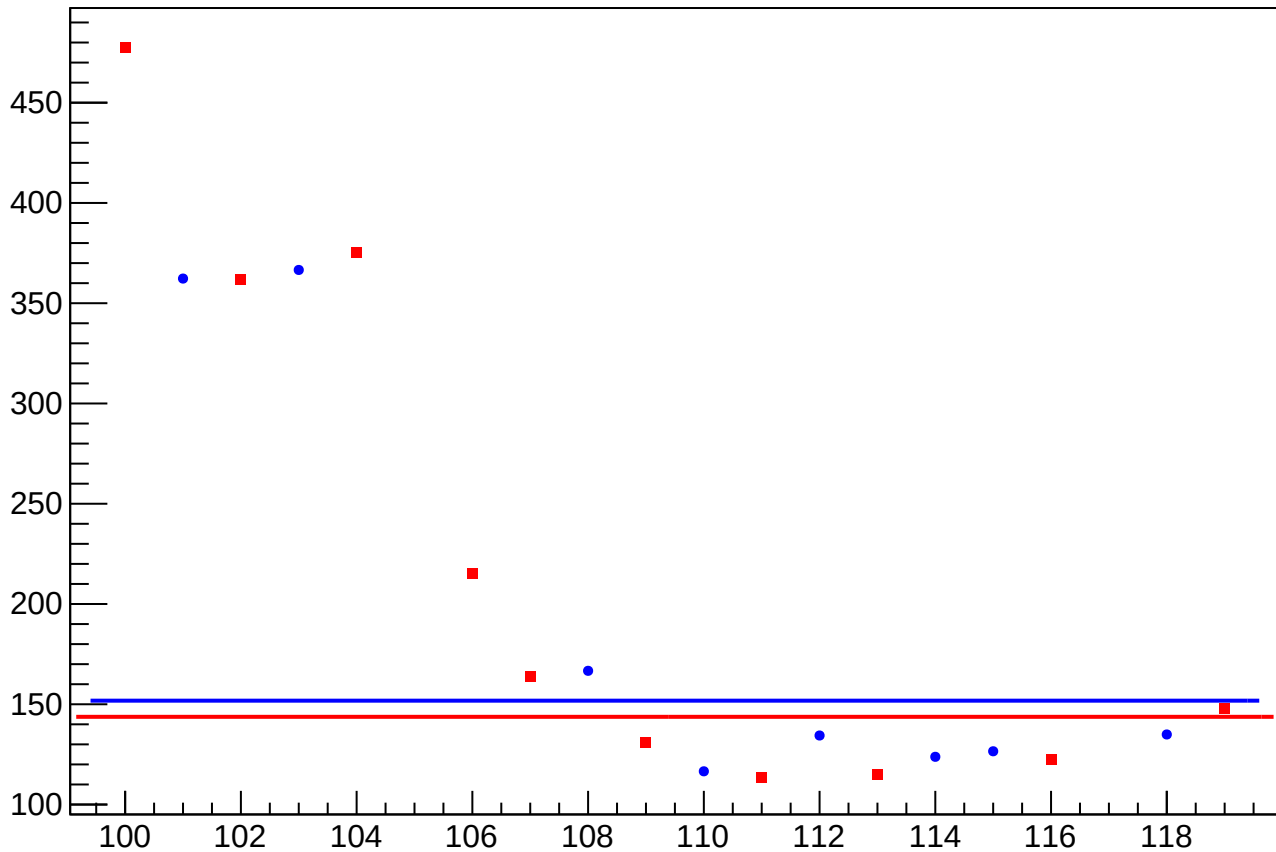
Right Out: 139353.373 $\pm$ 0.079  $\chi^2$ /NDF: 689735701.1/9

All: 139462.096 $\pm$ 0.060  $\chi^2$ /NDF: 133663146

- 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: 151.796+/-0.065  $\chi^2/\text{NDF}$ : 979986.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 143.741+/-0.056  $\chi^2/\text{NDF}$ : 1136019.5/9

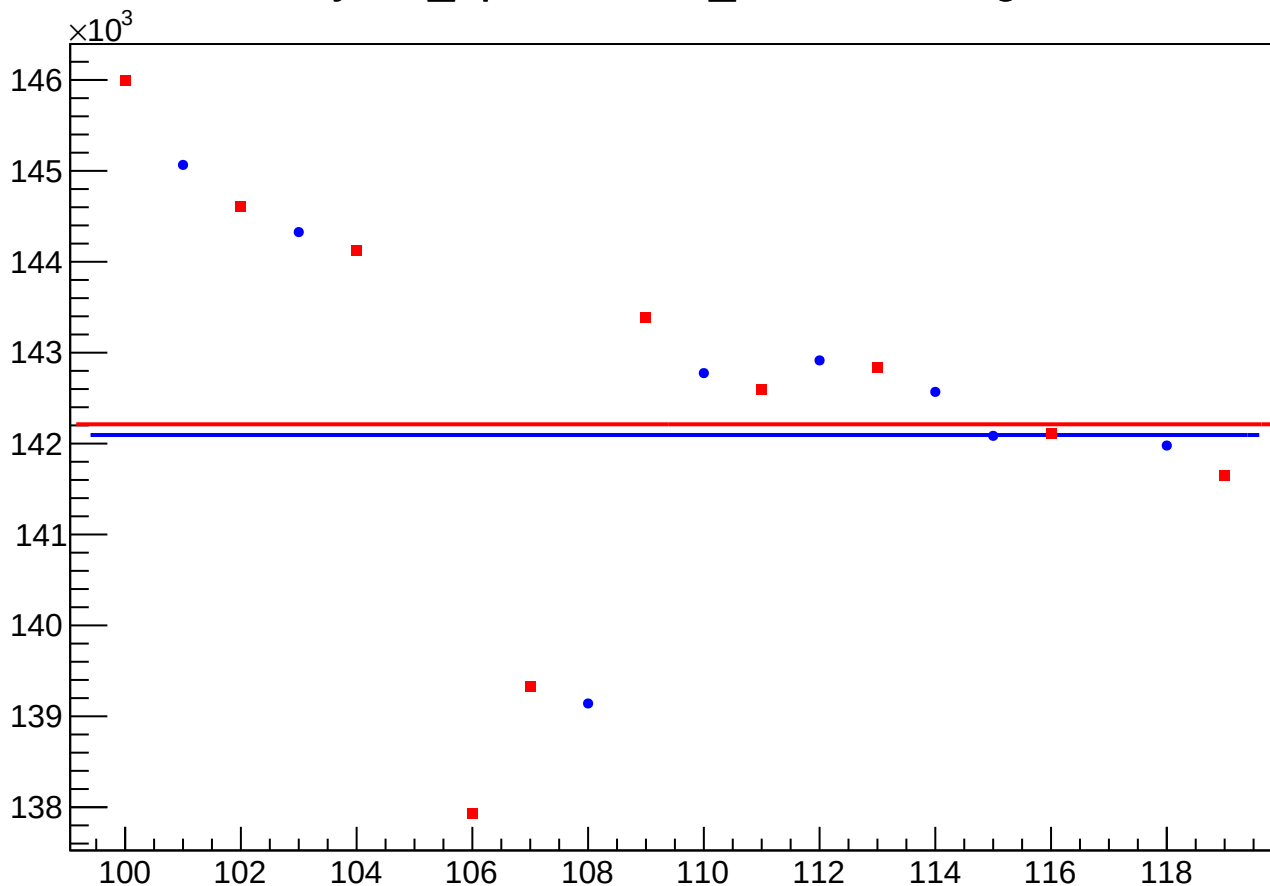
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 147.145+/-0.042  $\chi^2/\text{NDF}$ : 2124801.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05WS\_mean vs Slug



Right In: 142094.508 $\pm$ 0.102  $\chi^2$ /NDF: 246182356.9/7

+ 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

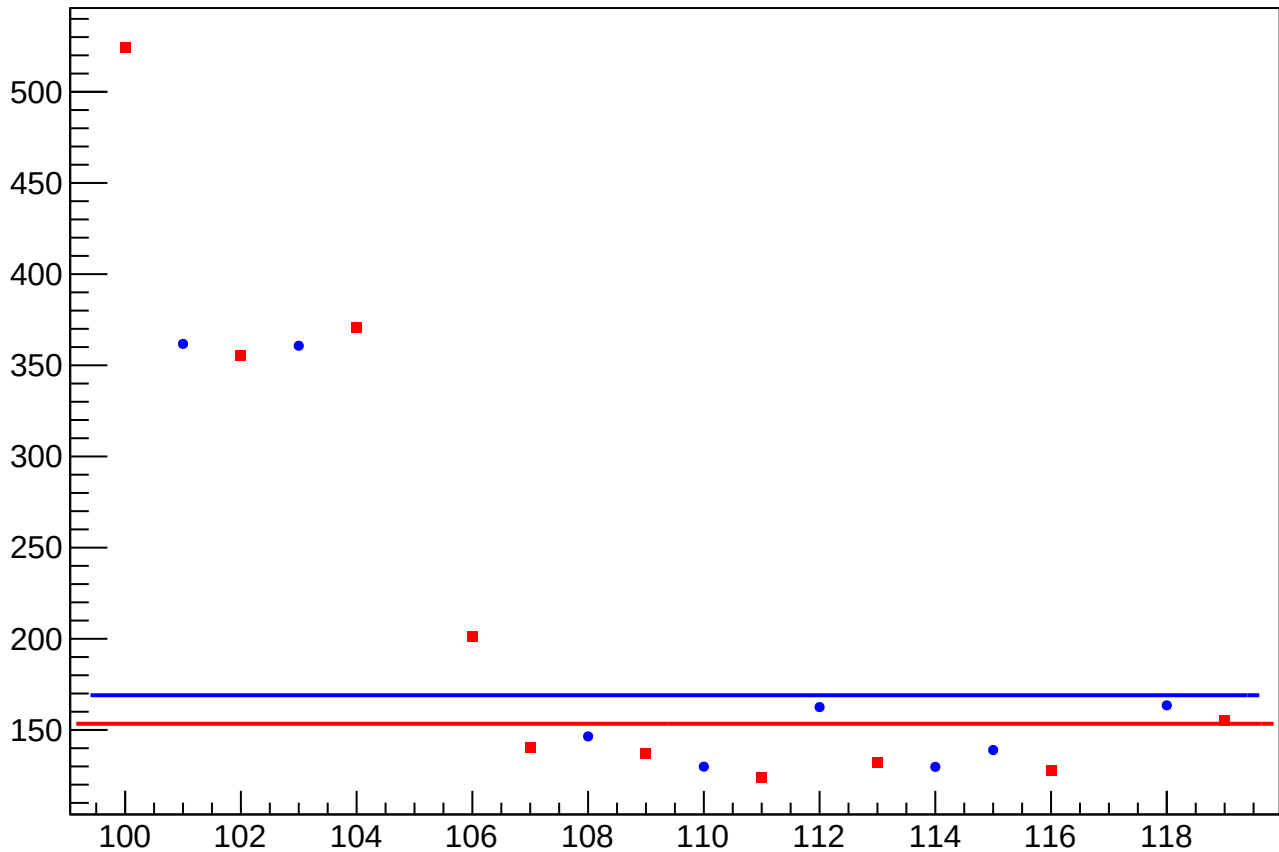
Right Out: 142212.248 $\pm$ 0.083  $\chi^2$ /NDF: 318923676.3/9

All: 142165.028 $\pm$ 0.065  $\chi^2$ /NDF: 565904134

- 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\_bpm0i05WS\_rms vs Slug



Right In: 169.042 $\pm$ 0.072  $\chi^2$ /NDF: 827836.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 153.406 $\pm$ 0.059  $\chi^2$ /NDF: 982673.8/9

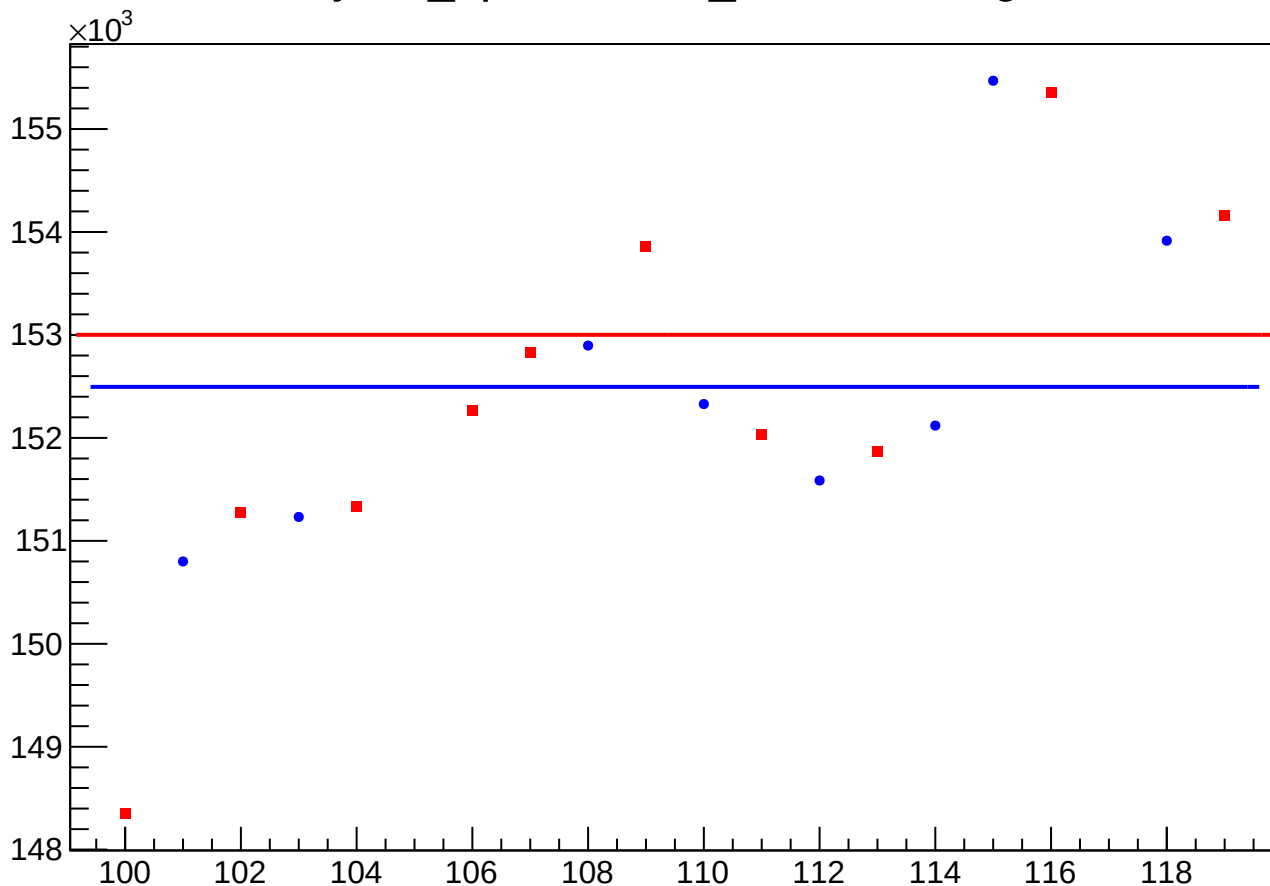
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 159.677 $\pm$ 0.046  $\chi^2$ /NDF: 1838660.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i07WS\_mean vs Slug



Right In: 152495.606 $\pm$ 0.118  $\chi^2$ /NDF: 84447572.1/7

+ 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

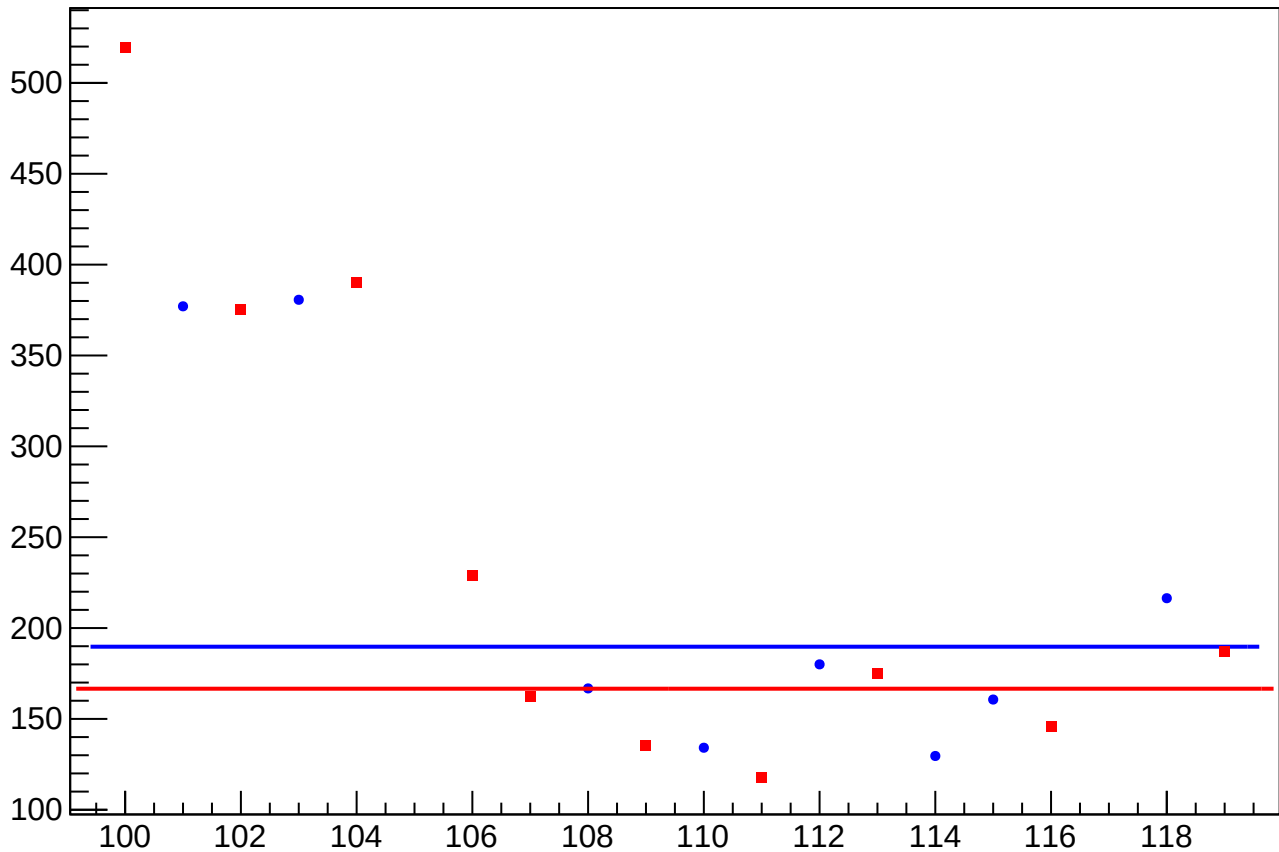
Right Out: 153001.190 $\pm$ 0.094  $\chi^2$ /NDF: 168651054.5/9

All: 152807.010 $\pm$ 0.073  $\chi^2$ /NDF: 264316700

- 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: 189.738 $\pm$ 0.084  $\chi^2$ /NDF: 817875.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 166.621 $\pm$ 0.066  $\chi^2$ /NDF: 1062022.8/9

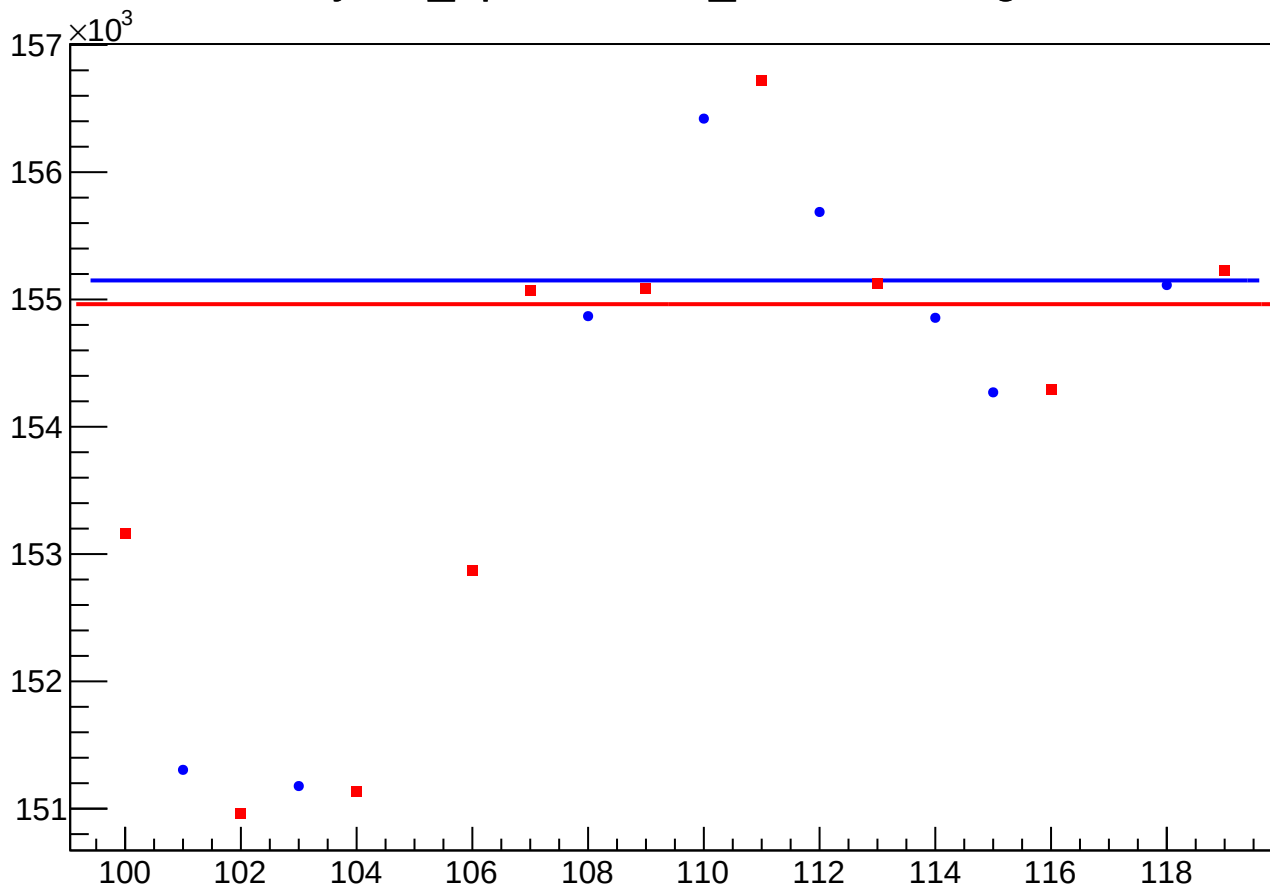
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 175.500 $\pm$ 0.052  $\chi^2$ /NDF: 1926804.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i02WS\_mean vs Slug



Right In: 155149.457 $\pm$ 0.094  $\chi^2$ /NDF: 174268831.3/7

+ 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

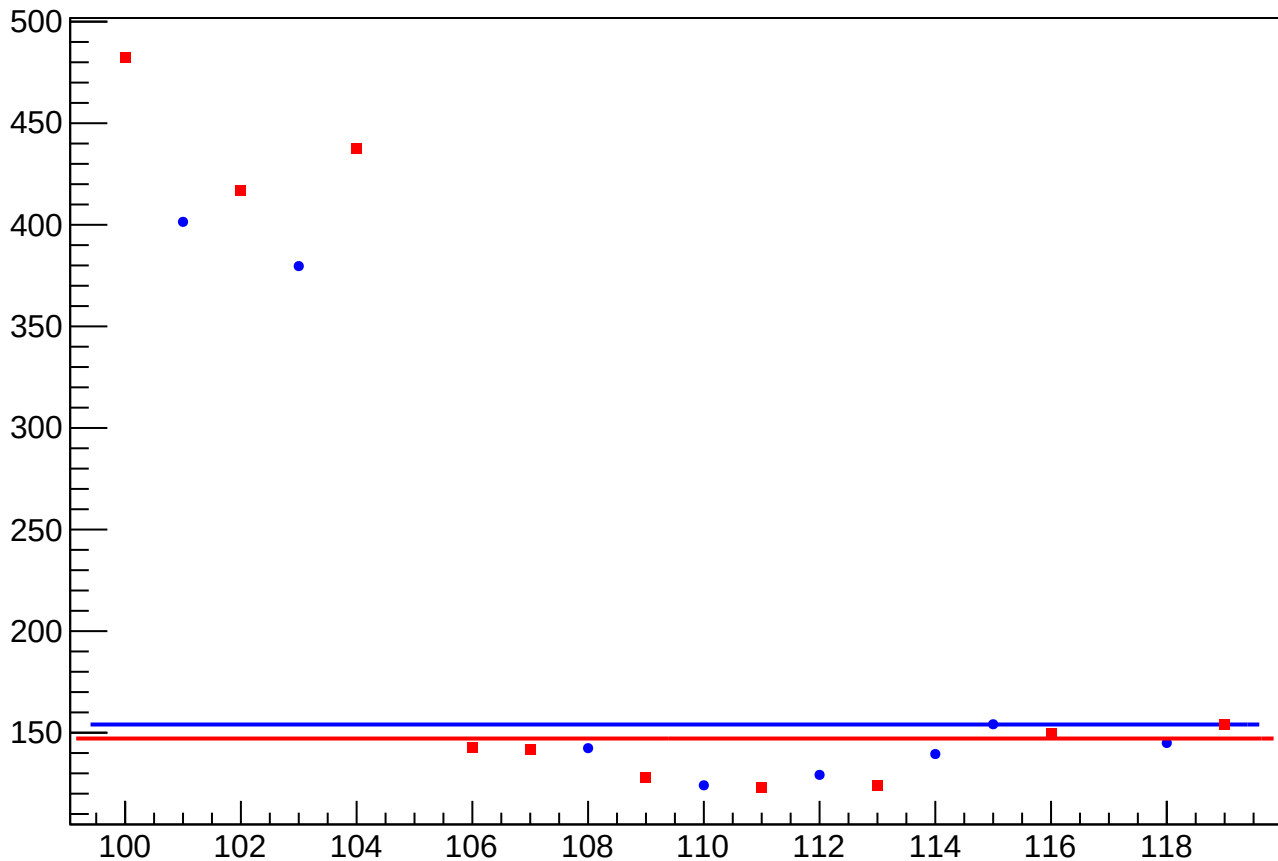
Right Out: 154963.082 $\pm$ 0.079  $\chi^2$ /NDF: 265070788.4/9

All: 155040.840 $\pm$ 0.061  $\chi^2$ /NDF: 441636933

- 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: 154.044 $\pm$ 0.066  $\chi^2$ /NDF: 984253.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 147.142 $\pm$ 0.056  $\chi^2$ /NDF: 1159373.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

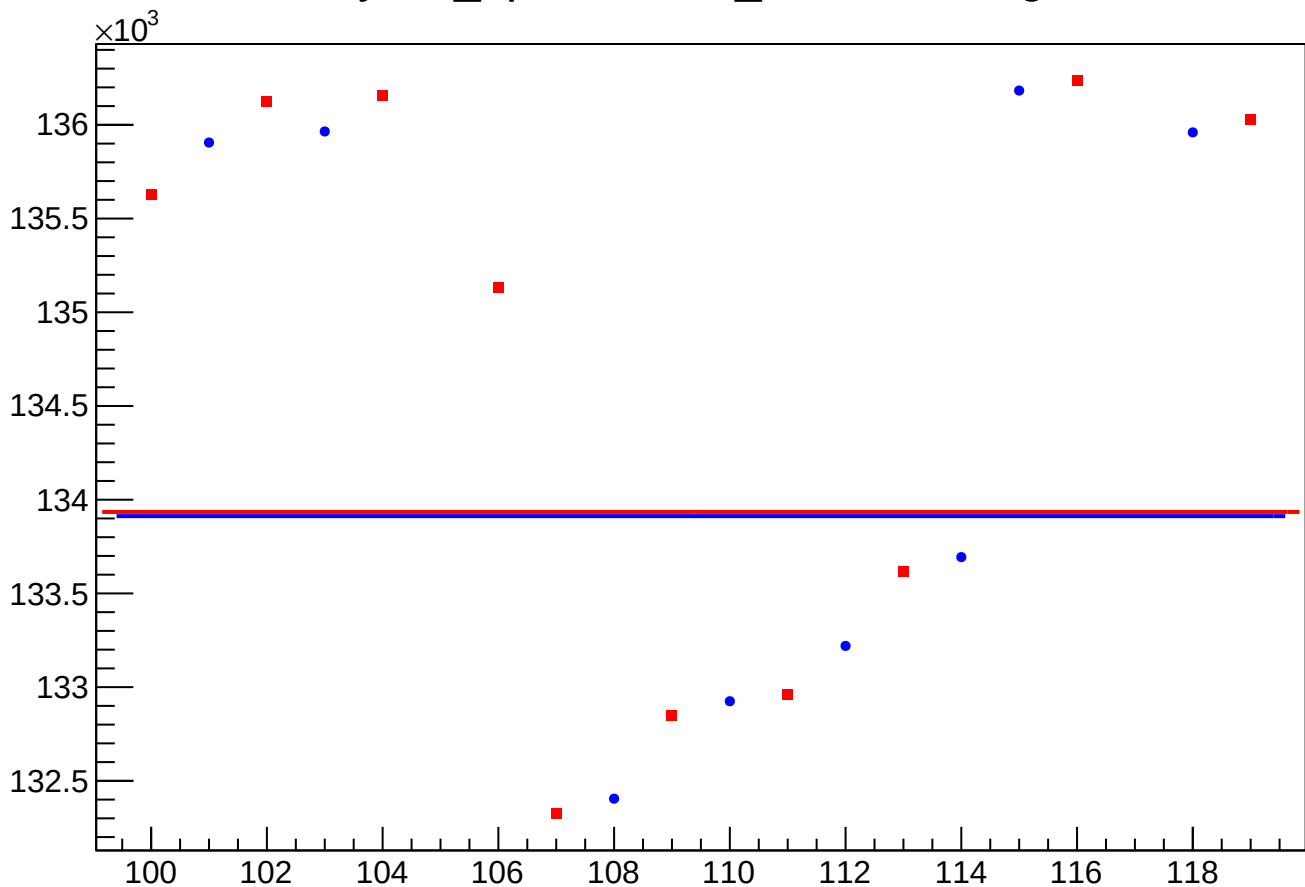
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 150.022 $\pm$ 0.043  $\chi^2$ /NDF: 2149926.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bpm1i04WS\_mean vs Slug



Right In: 133912.250 $\pm$ 0.072  $\chi^2$ /NDF: 397517904.4/7

+ 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

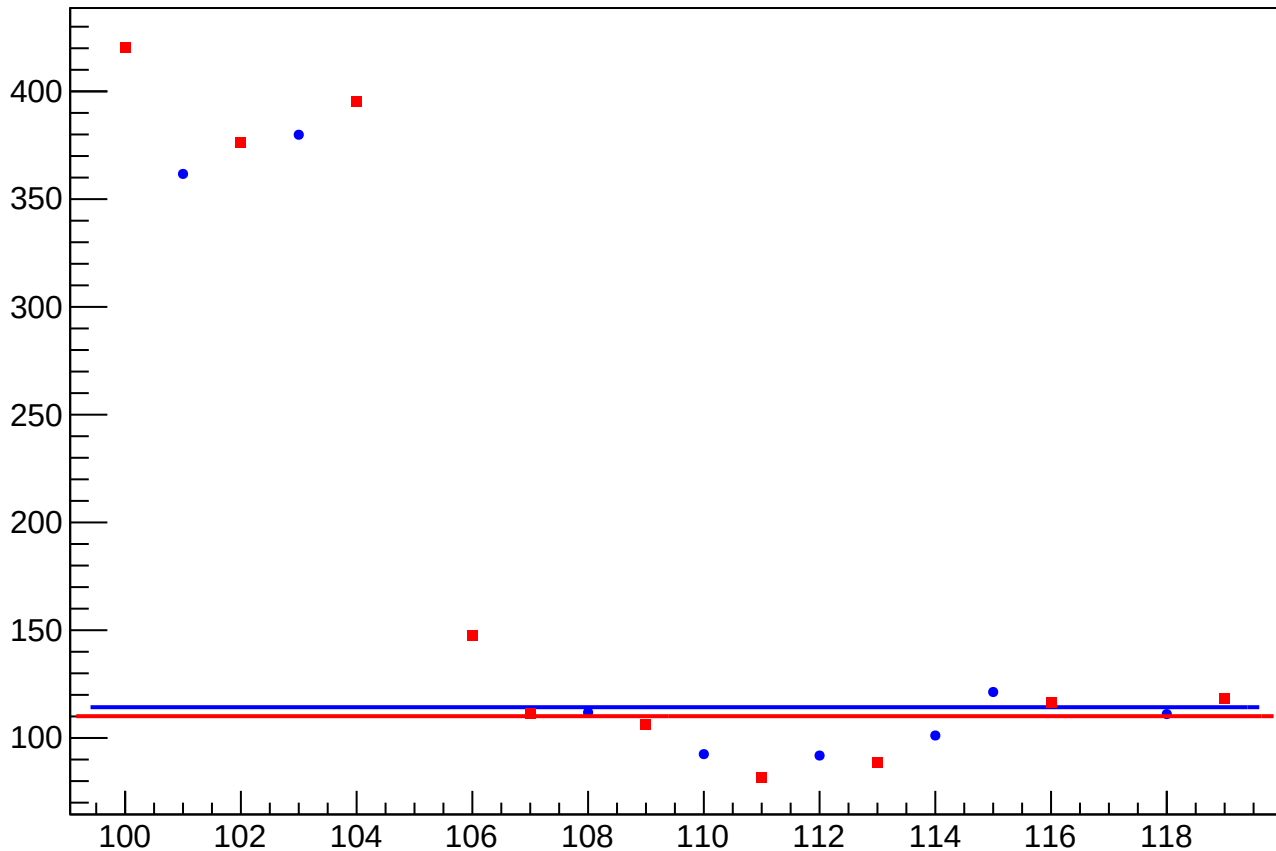
All: 133925.143 $\pm$ 0.047  $\chi^2$ /NDF: 895658716

Right Out: 133934.760 $\pm$ 0.062  $\chi^2$ /NDF: 498084086.9/9

- 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: 114.283 $\pm$ 0.051  $\chi^2$ /NDF: 1302104.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 110.114 $\pm$ 0.044  $\chi^2$ /NDF: 1461398.6/9

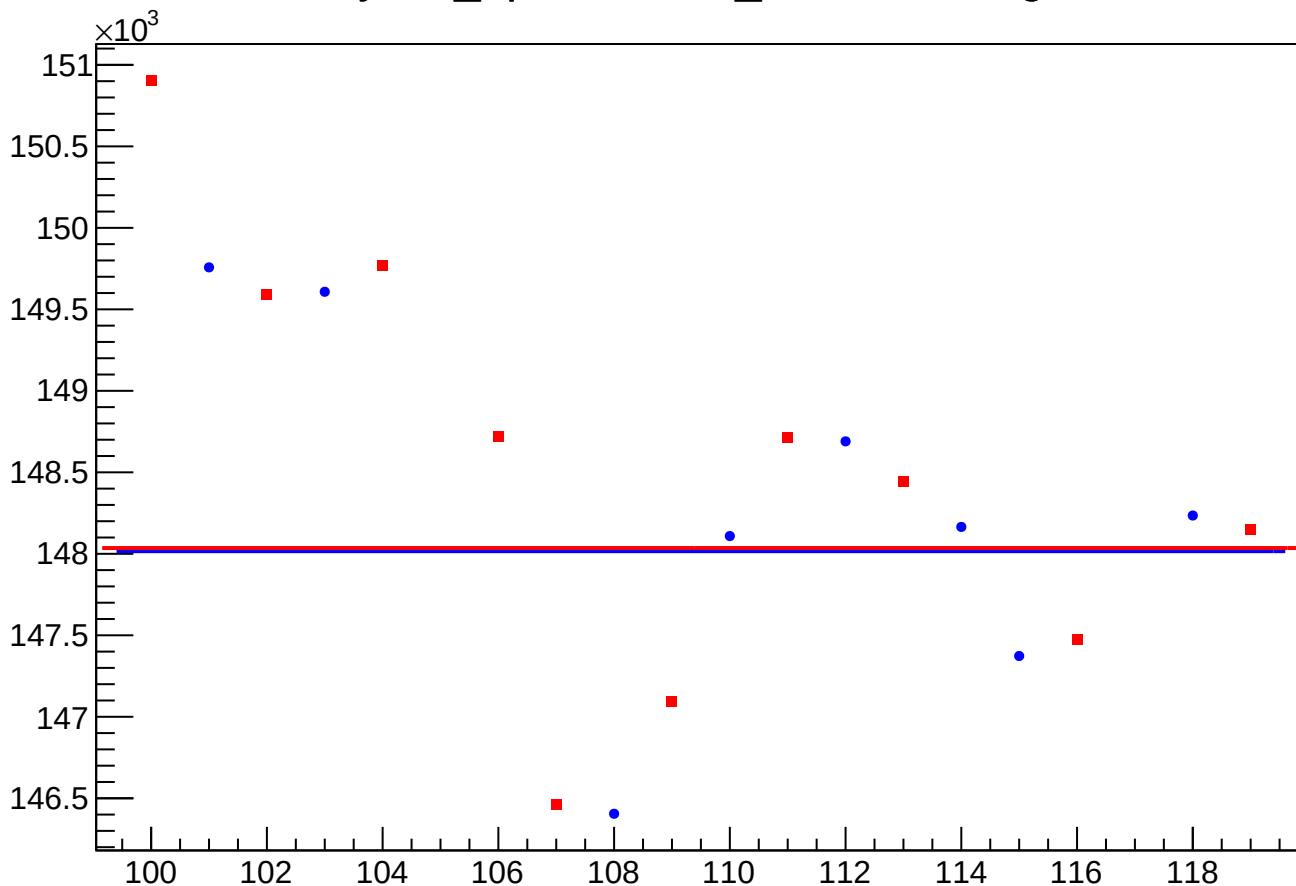
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 111.895 $\pm$ 0.033  $\chi^2$ /NDF: 2767393.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i06WS\_mean vs Slug



Right In: 148016.218 $\pm$ 0.088  $\chi^2$ /NDF: 104434804.1/7

+ 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

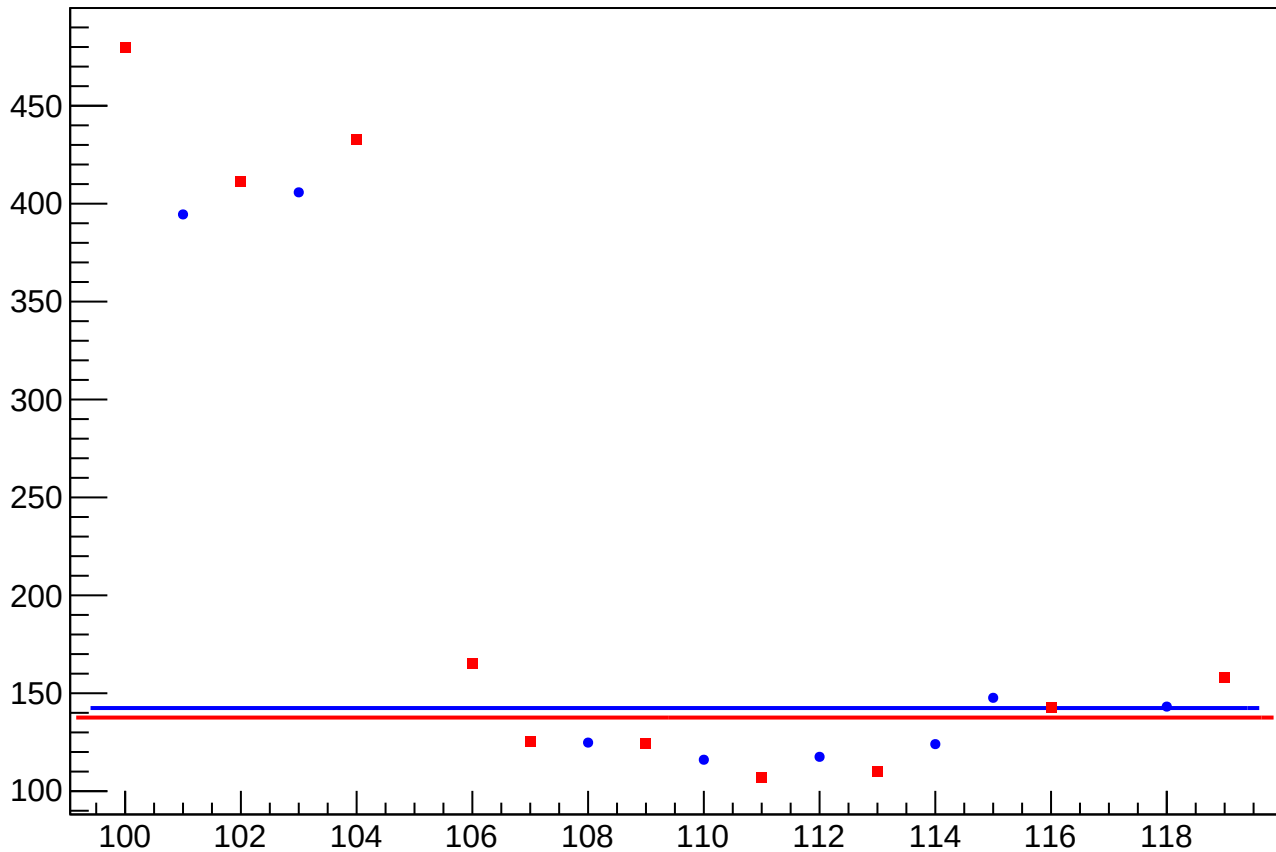
All: 148027.192 $\pm$ 0.057  $\chi^2$ /NDF: 223879028

Right Out: 148035.360 $\pm$ 0.076  $\chi^2$ /NDF: 119416915.5/9

- 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: 142.449 $\pm$ 0.062  $\chi^2$ /NDF: 1137043.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 137.587 $\pm$ 0.054  $\chi^2$ /NDF: 1307930.1/9

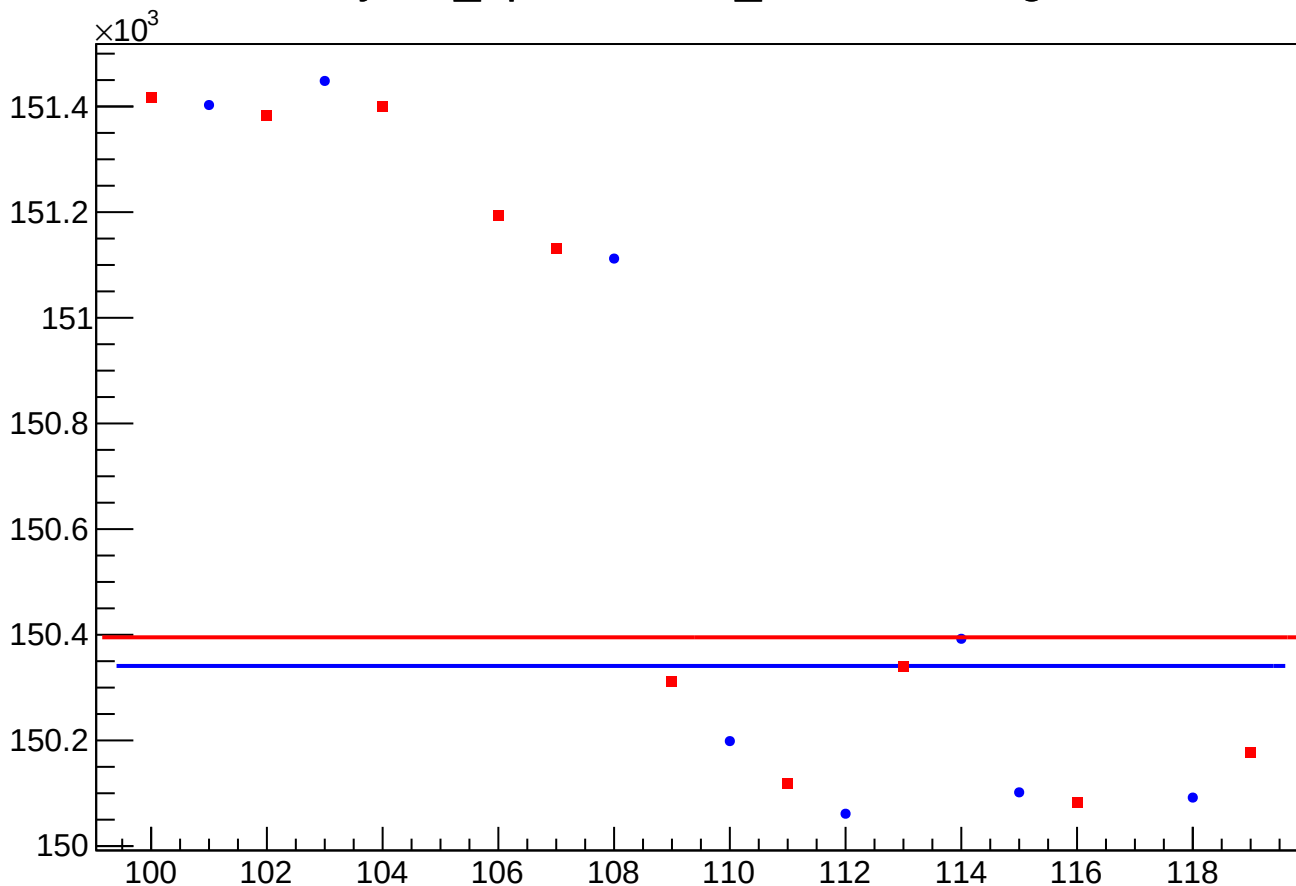
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 139.662 $\pm$ 0.041  $\chi^2$ /NDF: 2448495.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i01WS\_mean vs Slug



Right In: 150340.992 $\pm$ 0.077  $\chi^2$ /NDF: 32107637.7/7

+ 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

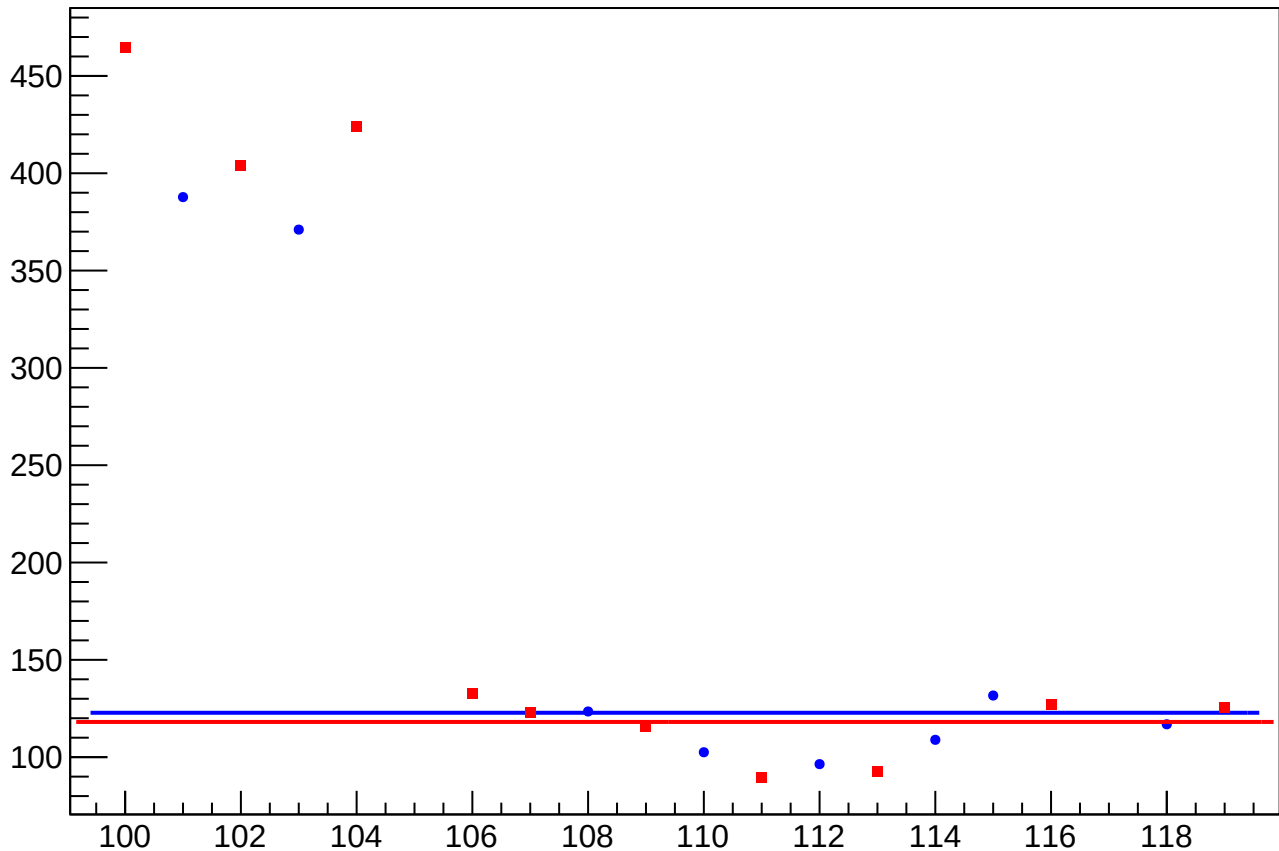
All: 150372.439 $\pm$ 0.050  $\chi^2$ /NDF: 67311578.

Right Out: 150395.191 $\pm$ 0.065  $\chi^2$ /NDF: 34915326.4/9

- 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: 122.805 $\pm$ 0.054  $\chi^2$ /NDF: 1221501.2/7

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

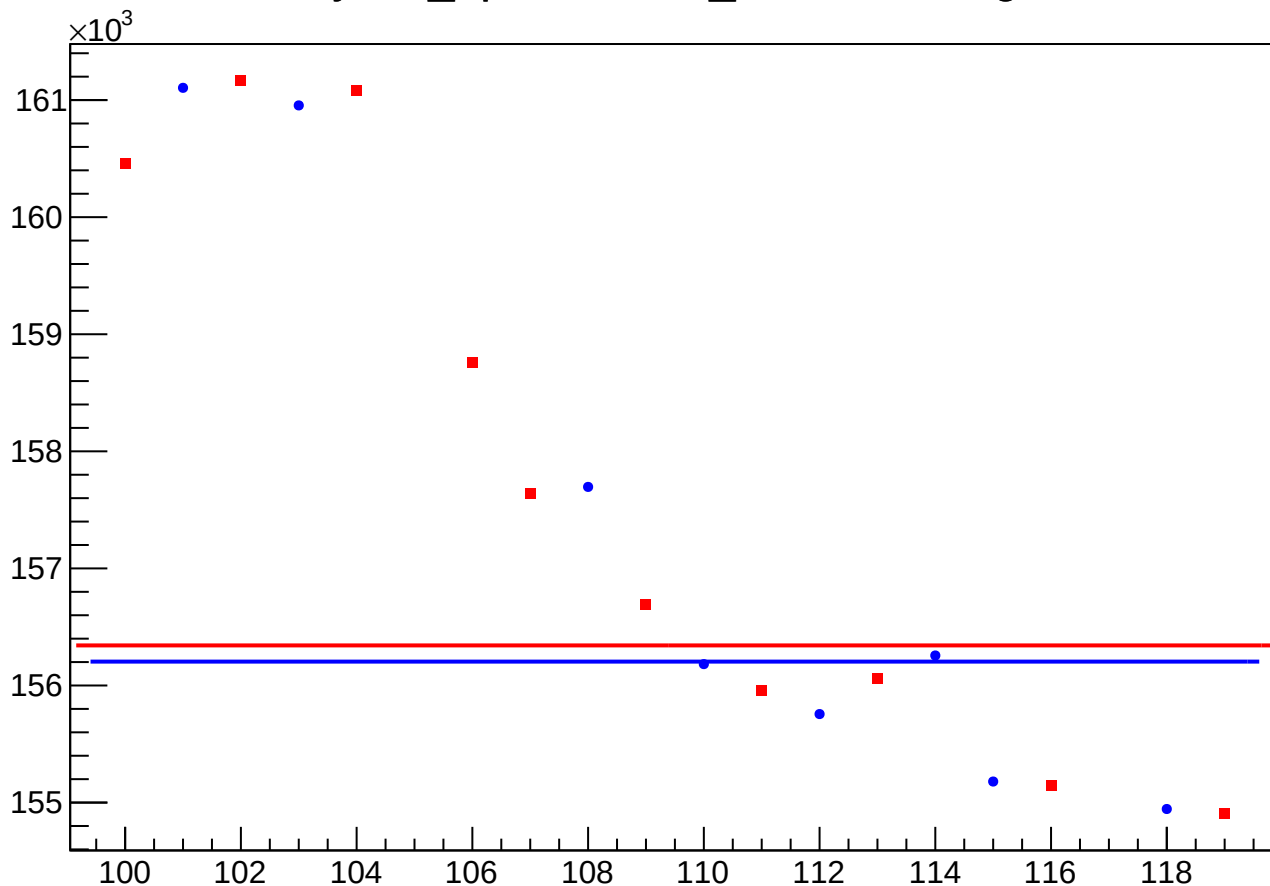
Right Out: 118.093 $\pm$ 0.046  $\chi^2$ /NDF: 1435052.9/9

All: 120.071 $\pm$ 0.035  $\chi^2$ /NDF: 2660917.9/17

- 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\_mean vs Slug



Right In: 156204.011 $\pm$ 0.081  $\chi^2$ /NDF: 302976273.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 156342.313 $\pm$ 0.068  $\chi^2$ /NDF: 378720005.8/9

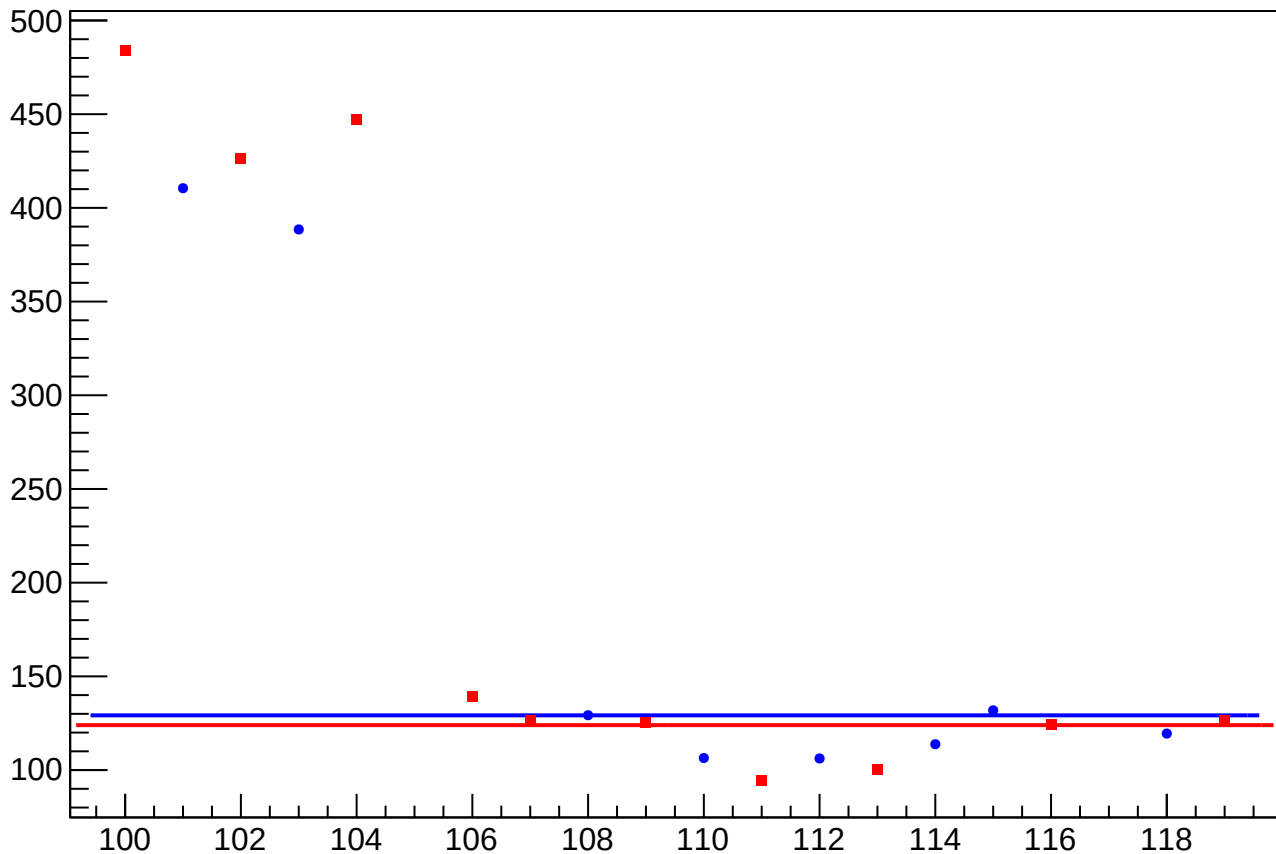
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156284.448 $\pm$ 0.052  $\chi^2$ /NDF: 68340285.0/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i02WS\_rms vs Slug



Right In: 129.202 $\pm$ 0.057  $\chi^2$ /NDF: 1205277.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 123.970 $\pm$ 0.048  $\chi^2$ /NDF: 1414135.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

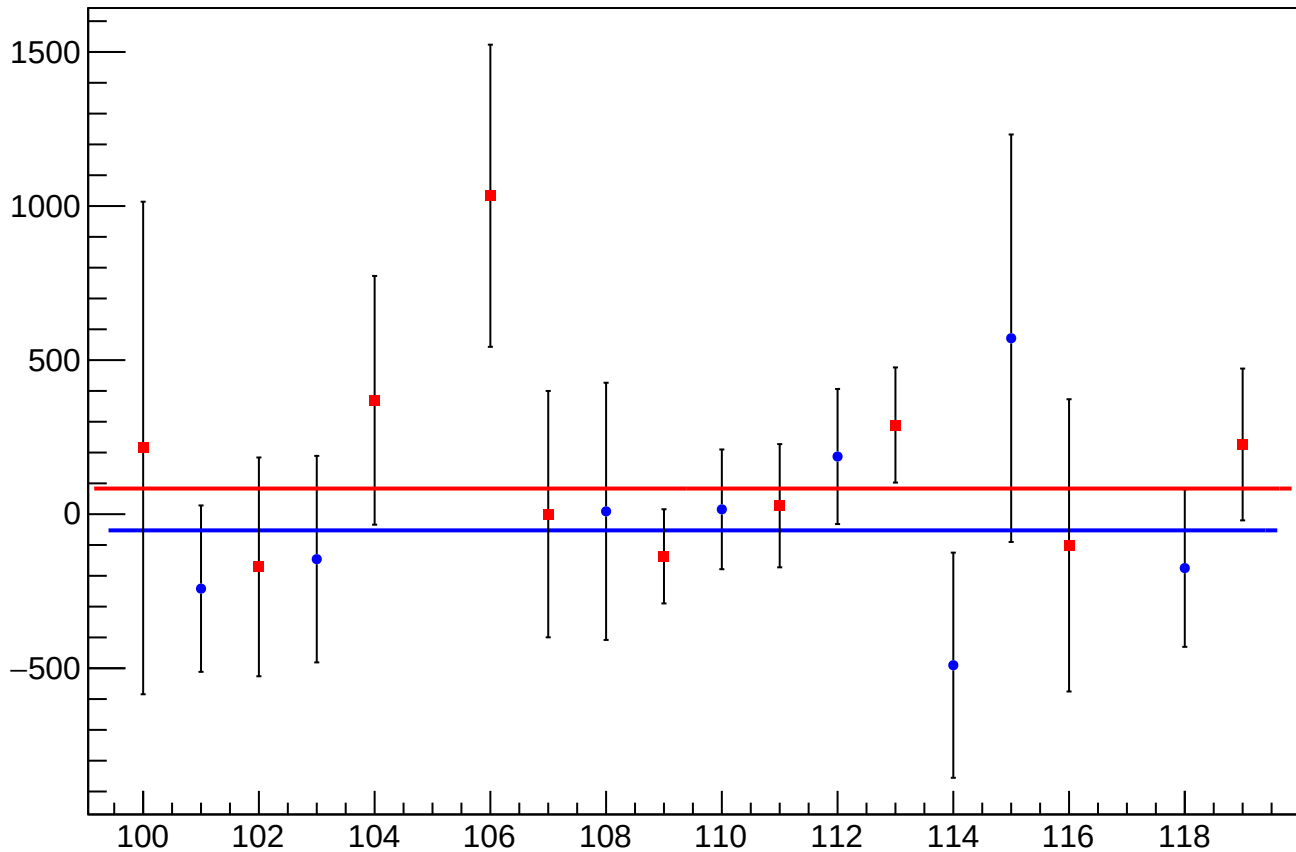
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 126.159 $\pm$ 0.037  $\chi^2$ /NDF: 2624298.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bcm\_target\_mean vs Slug



Right In: -52.563+/-99.632  $\chi^2/\text{NDF}$ : 4.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 83.216+/-83.496  $\chi^2/\text{NDF}$ : 8.7/9

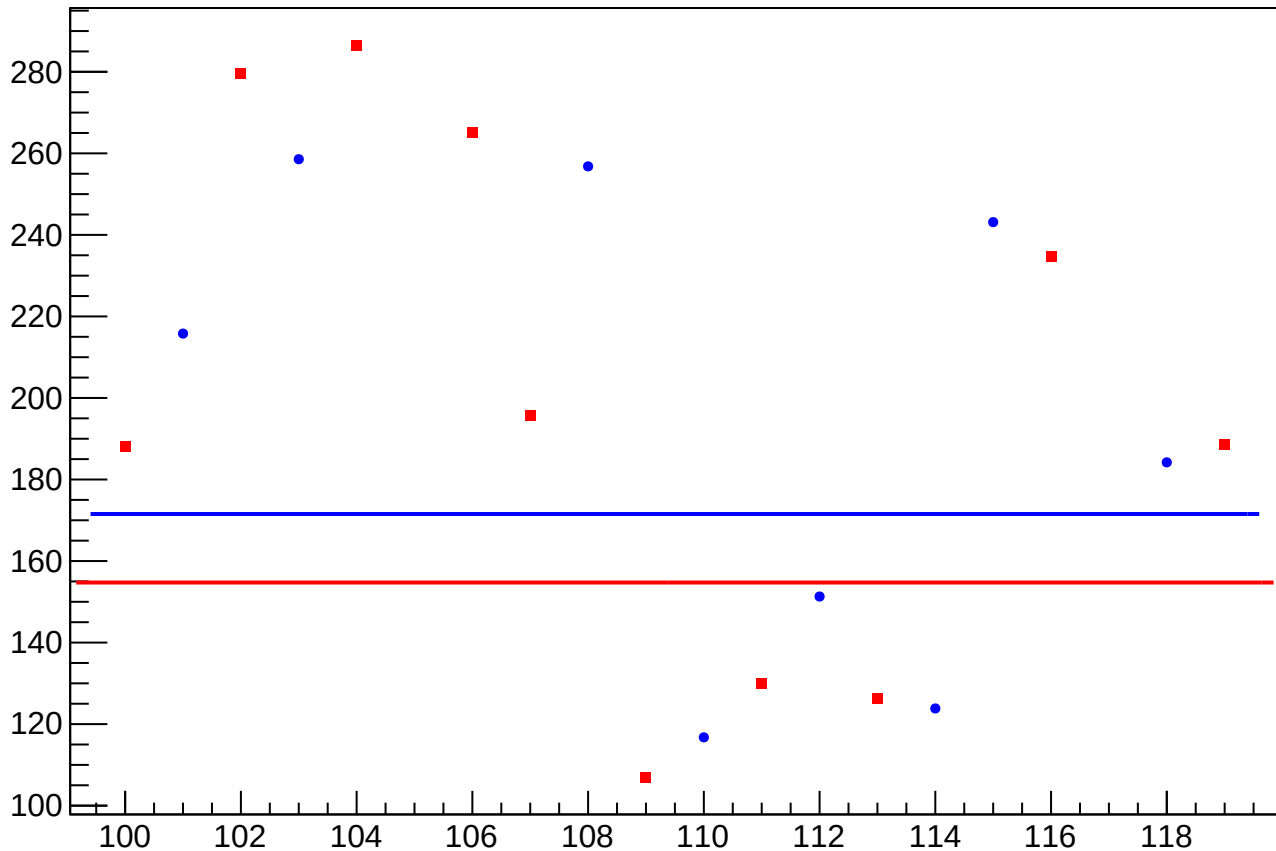
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.199+/-63.995  $\chi^2/\text{NDF}$ : 14.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_target\_rms vs Slug



Right In: 171.538 $\pm$ 0.070  $\chi^2$ /NDF: 510615.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 154.729 $\pm$ 0.059  $\chi^2$ /NDF: 953756.1/9

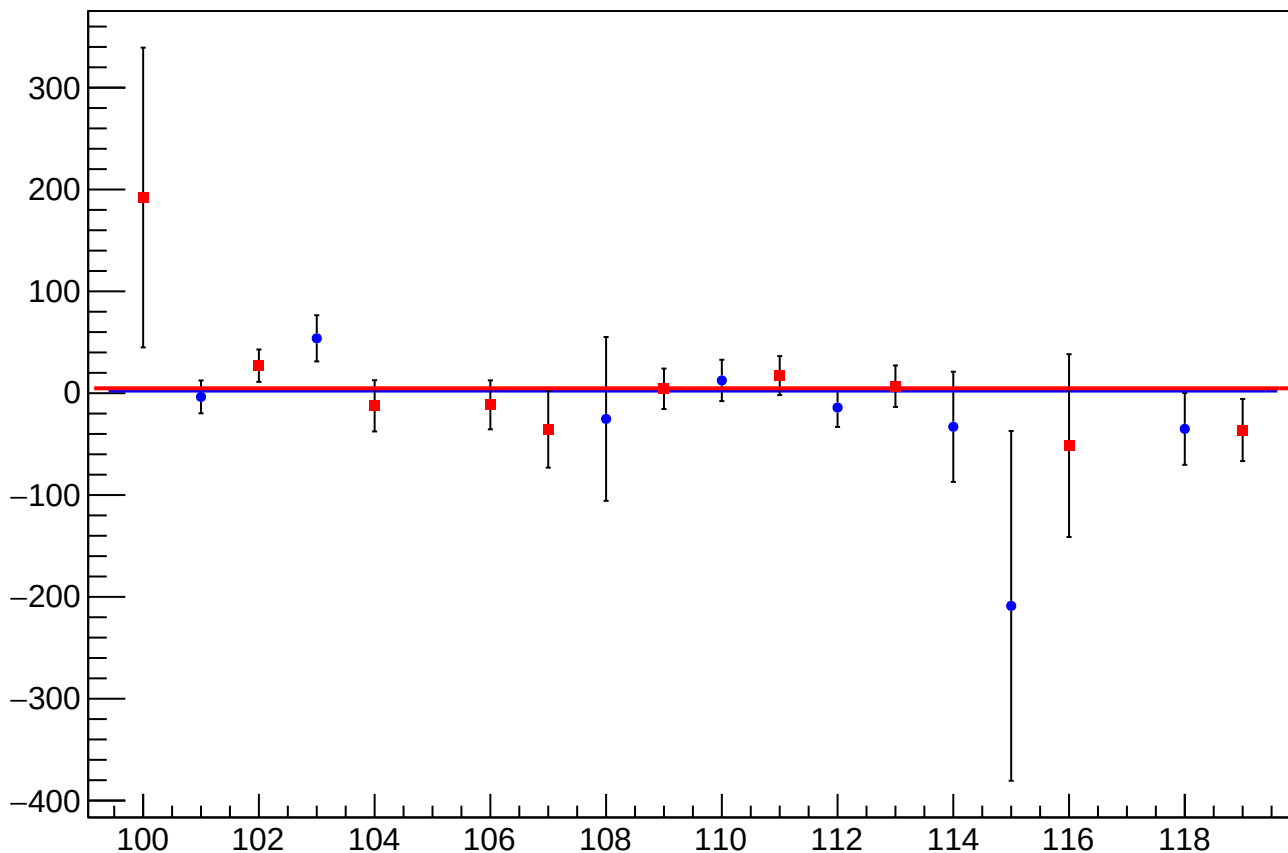
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 161.664 $\pm$ 0.045  $\chi^2$ /NDF: 1497811.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_diff\_mean vs Slug



Right In: 2.594 $\pm$ 9.013  $\chi^2$ /NDF: 9.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.788 $\pm$ 7.691  $\chi^2$ /NDF: 8.3/9

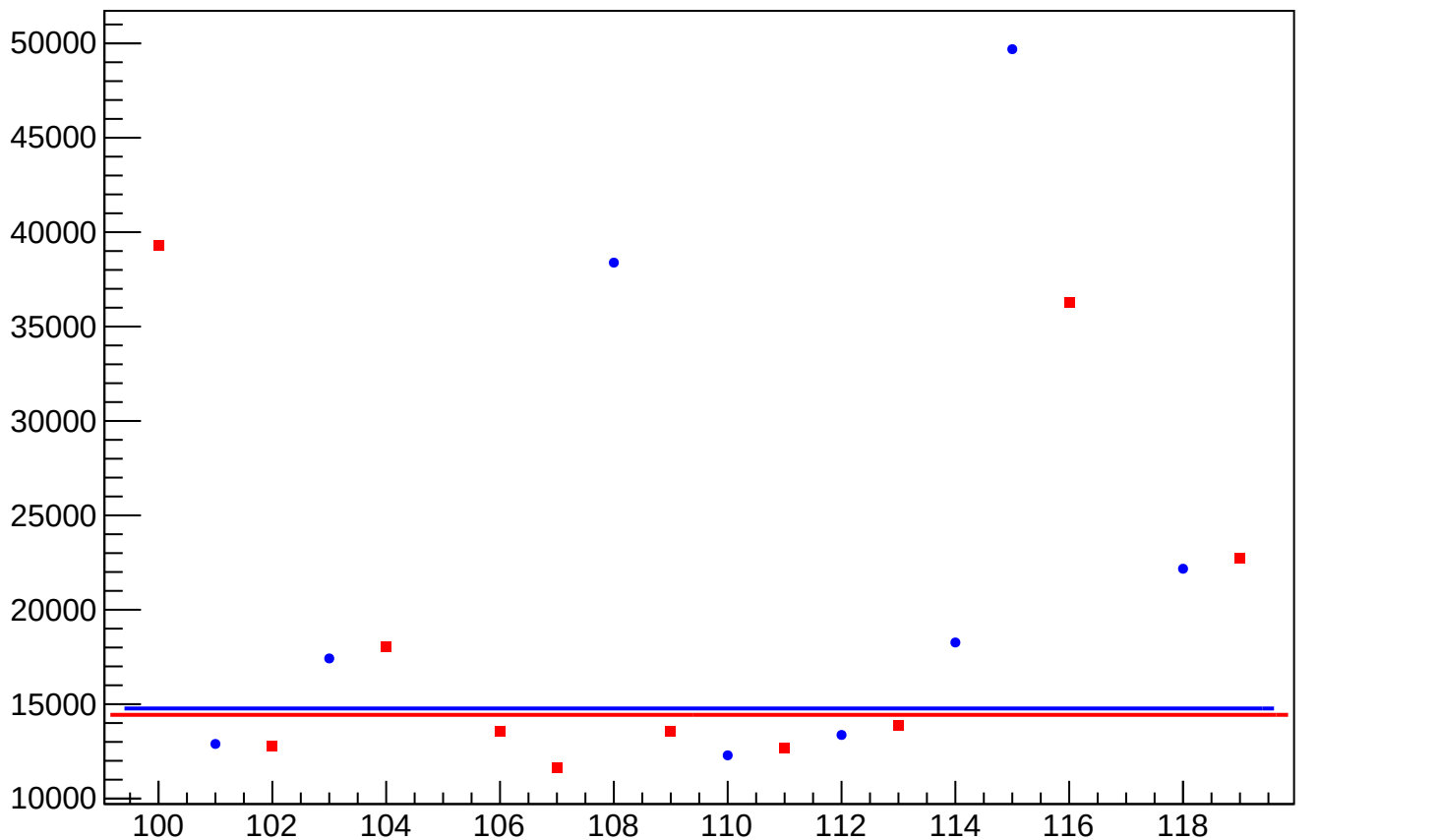
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.864 $\pm$ 5.850  $\chi^2$ /NDF: 17.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_diff\_rms vs Slug



Right In: 14771.397 $\pm$ 6.373  $\chi^2$ /NDF: 446660.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14434.265 $\pm$ 5.438  $\chi^2$ /NDF: 423612.5/9

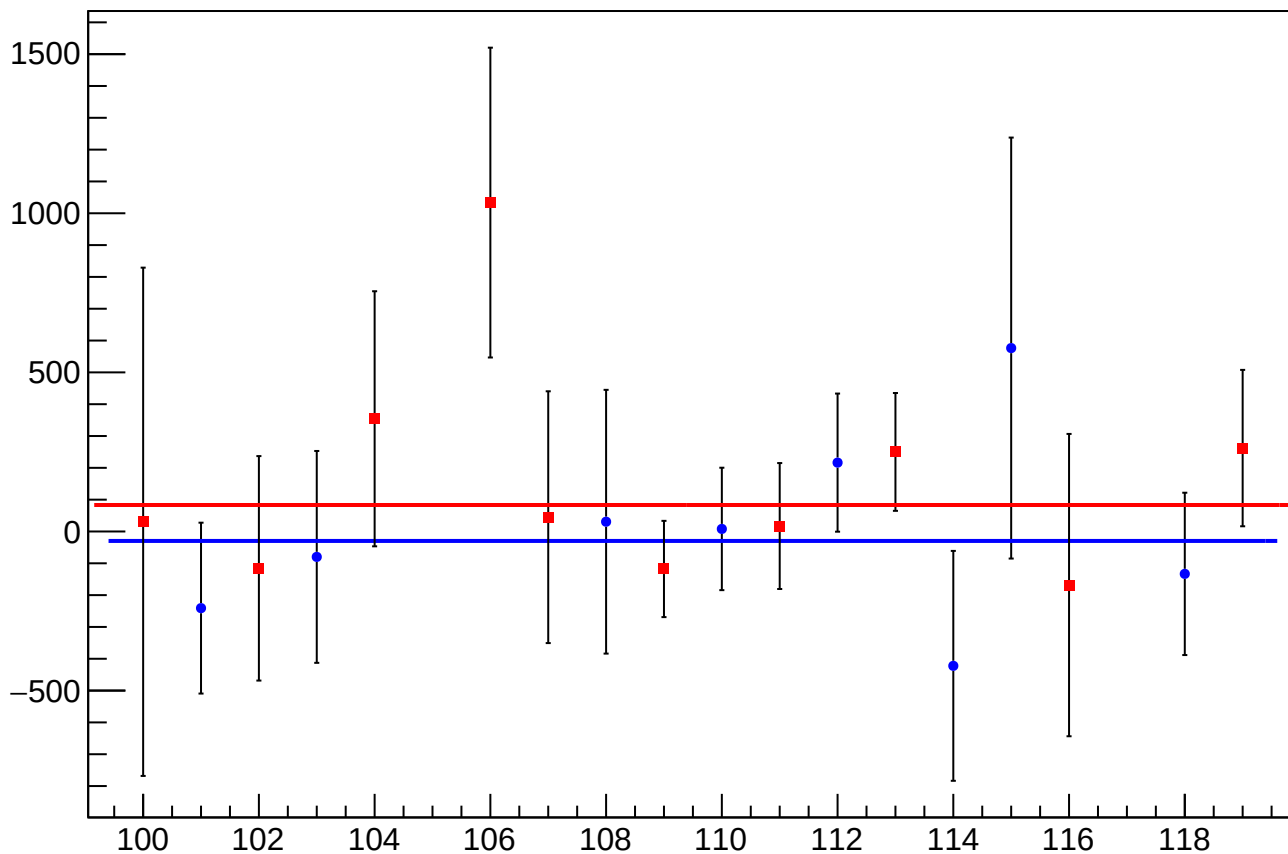
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 14576.313 $\pm$ 4.137  $\chi^2$ /NDF: 871892.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_ds\_mean vs Slug



Right In: -29.727+/-98.871  $\chi^2/\text{NDF}$ : 4.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 83.237+/-82.801  $\chi^2/\text{NDF}$ : 8.1/9

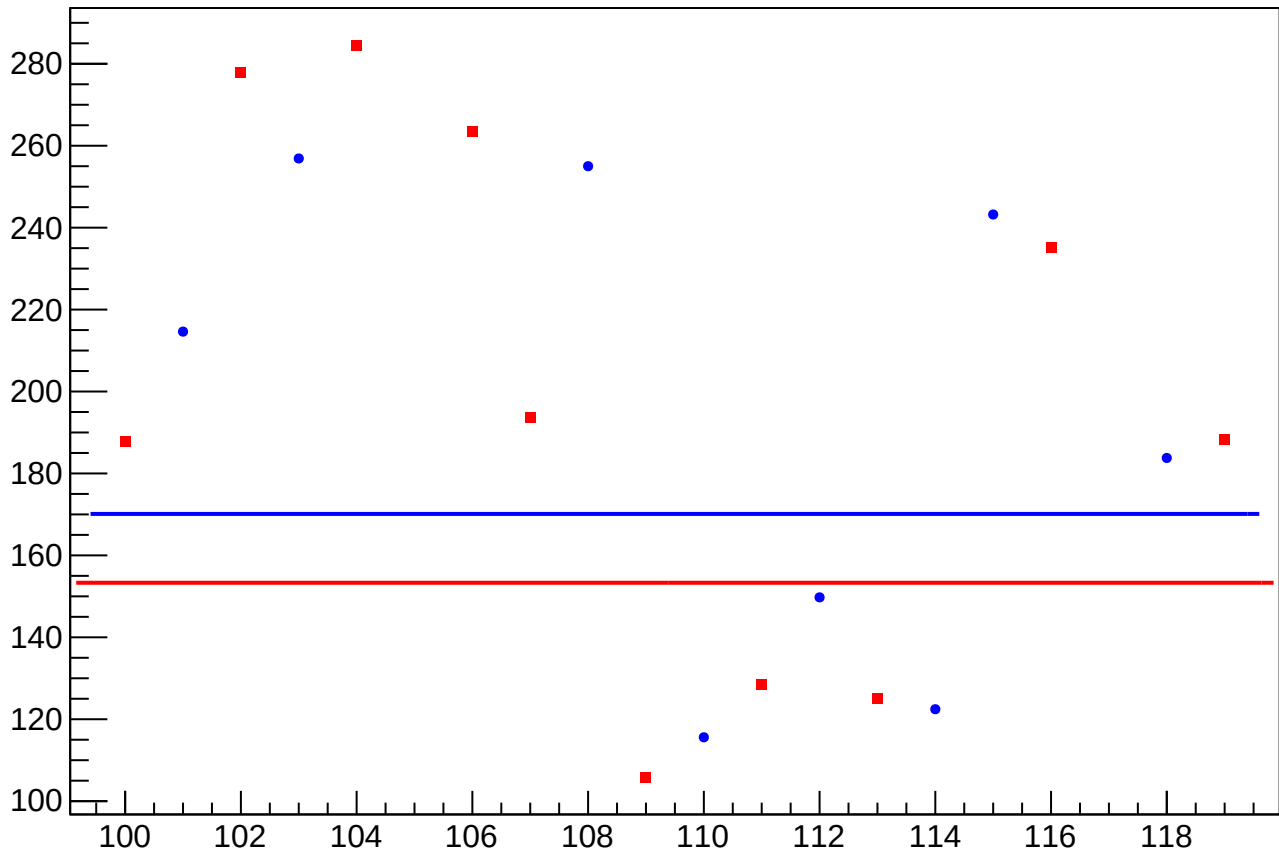
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.671+/-63.480  $\chi^2/\text{NDF}$ : 13.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_ds\_rms vs Slug



Right In: 170.122 $\pm$ 0.070  $\chi^2$ /NDF: 518014.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 153.320 $\pm$ 0.059  $\chi^2$ /NDF: 964366.7/9

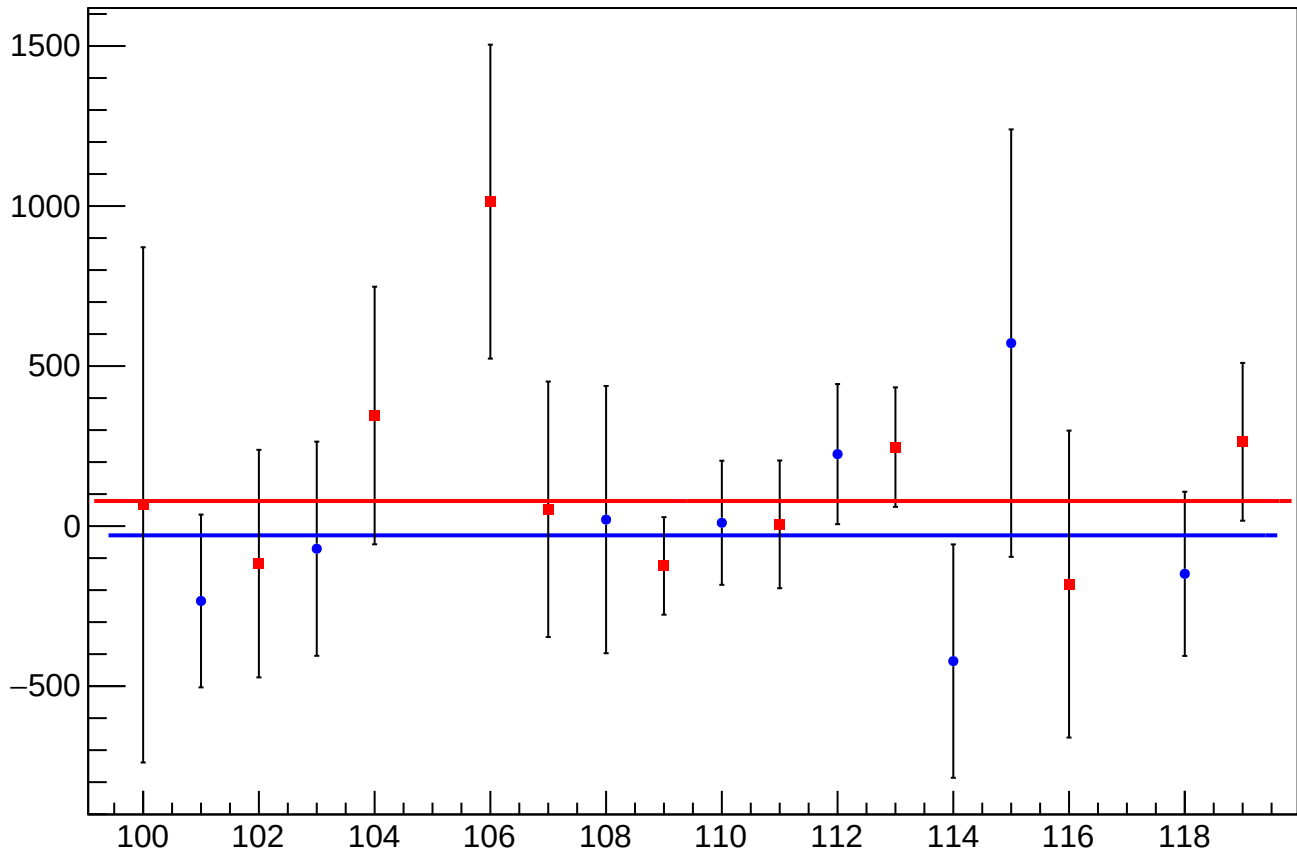
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 160.246 $\pm$ 0.045  $\chi^2$ /NDF: 1516327.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_ds3\_mean vs Slug



Right In: -28.852 $\pm$ 99.580  $\chi^2$ /NDF: 4.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 78.345 $\pm$ 83.412  $\chi^2$ /NDF: 8.0/9

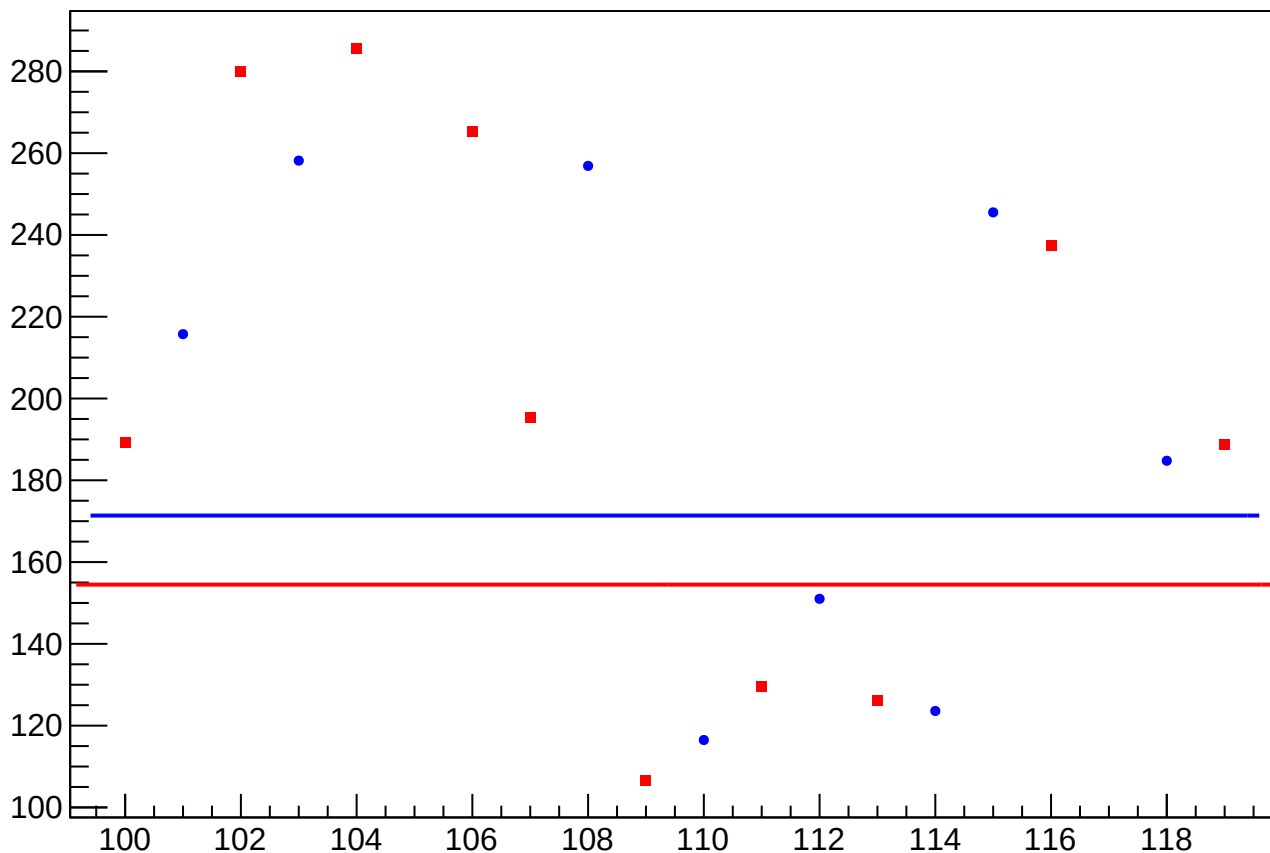
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 34.145 $\pm$ 63.943  $\chi^2$ /NDF: 12.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_ds3\_rms vs Slug



Right In: 171.372 $\pm$ 0.070  $\chi^2$ /NDF: 514678.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 154.486 $\pm$ 0.059  $\chi^2$ /NDF: 960746.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

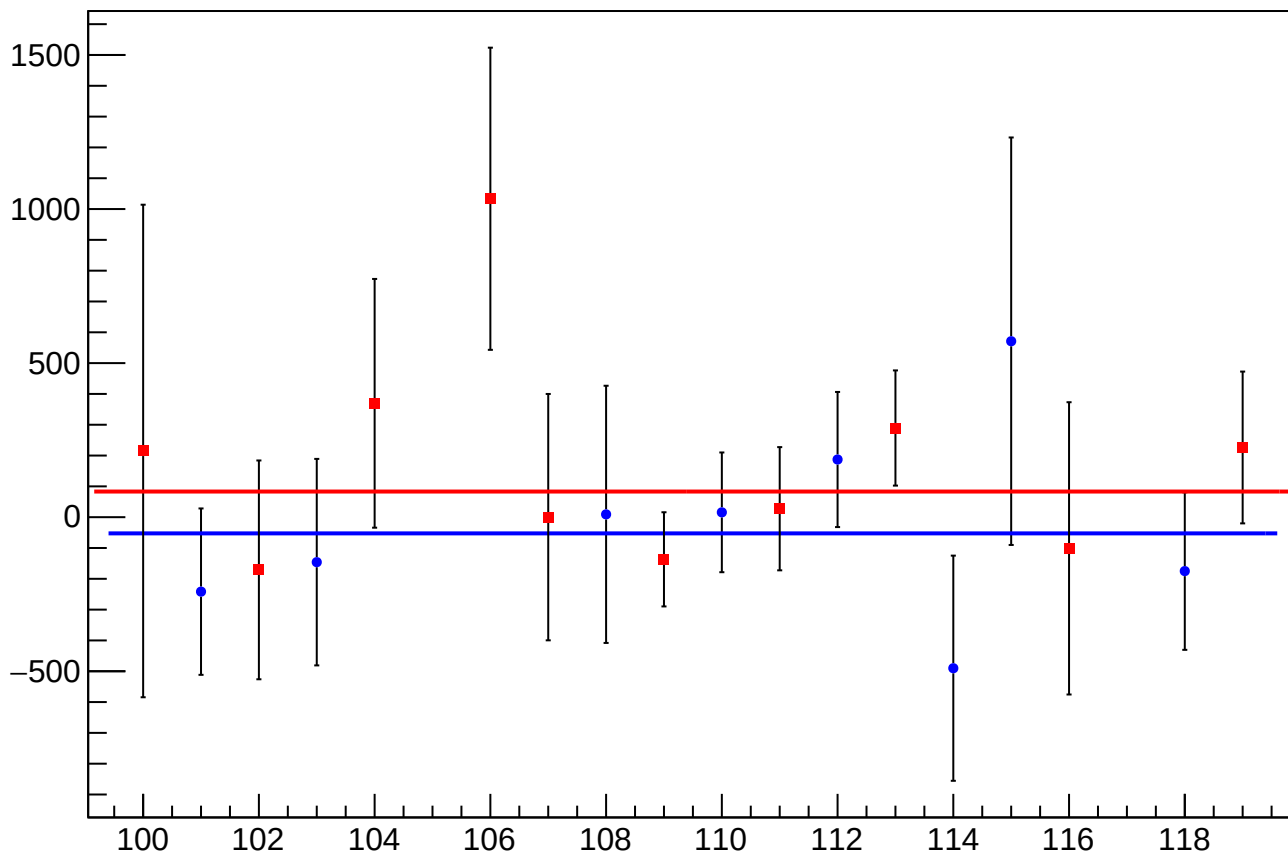
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 161.449 $\pm$ 0.045  $\chi^2$ /NDF: 1509224.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bcm\_an\_us\_mean vs Slug



Right In: -52.563+/-99.632  $\chi^2/\text{NDF}$ : 4.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 83.216+/-83.496  $\chi^2/\text{NDF}$ : 8.7/9

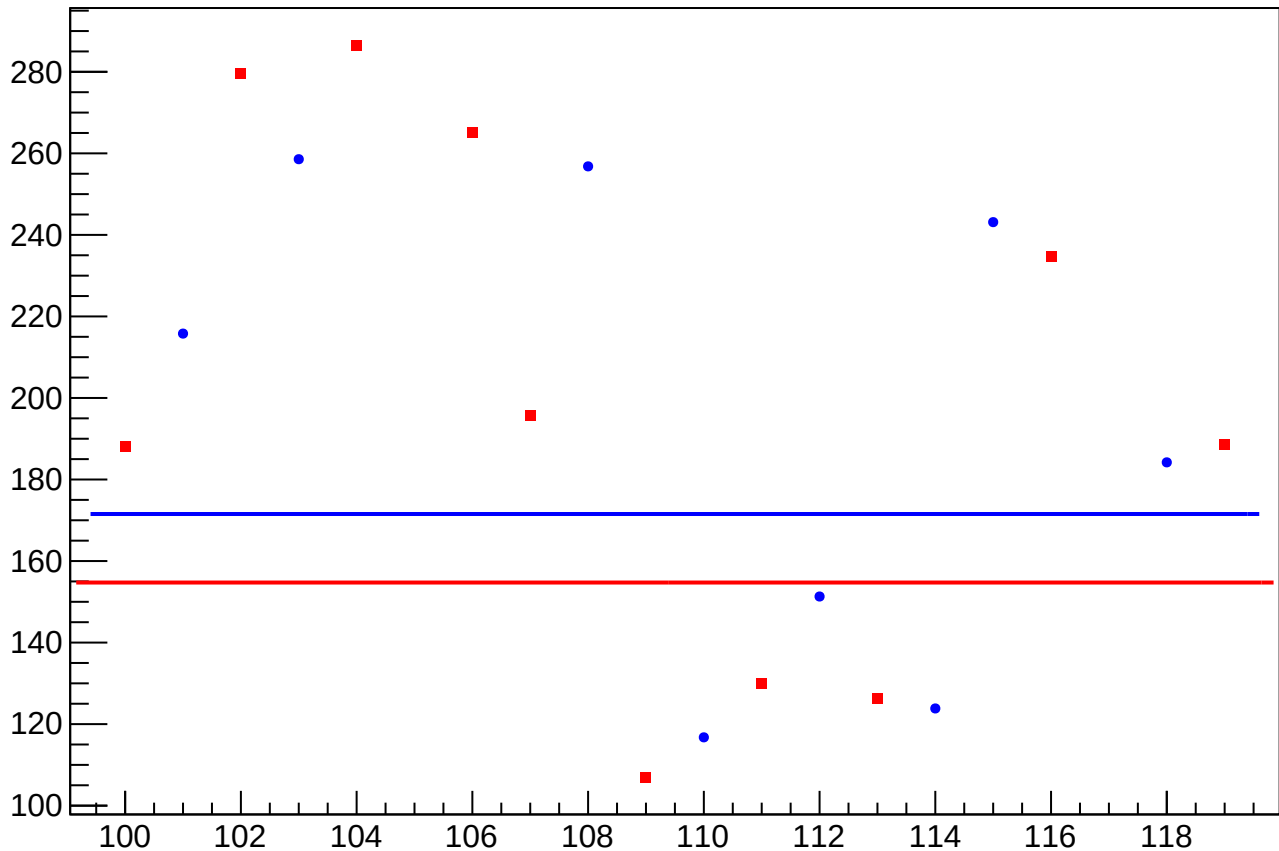
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.199+/-63.995  $\chi^2/\text{NDF}$ : 14.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_rms vs Slug



Right In: 171.538 $\pm$ 0.070  $\chi^2$ /NDF: 510615.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 154.729 $\pm$ 0.059  $\chi^2$ /NDF: 953756.1/9

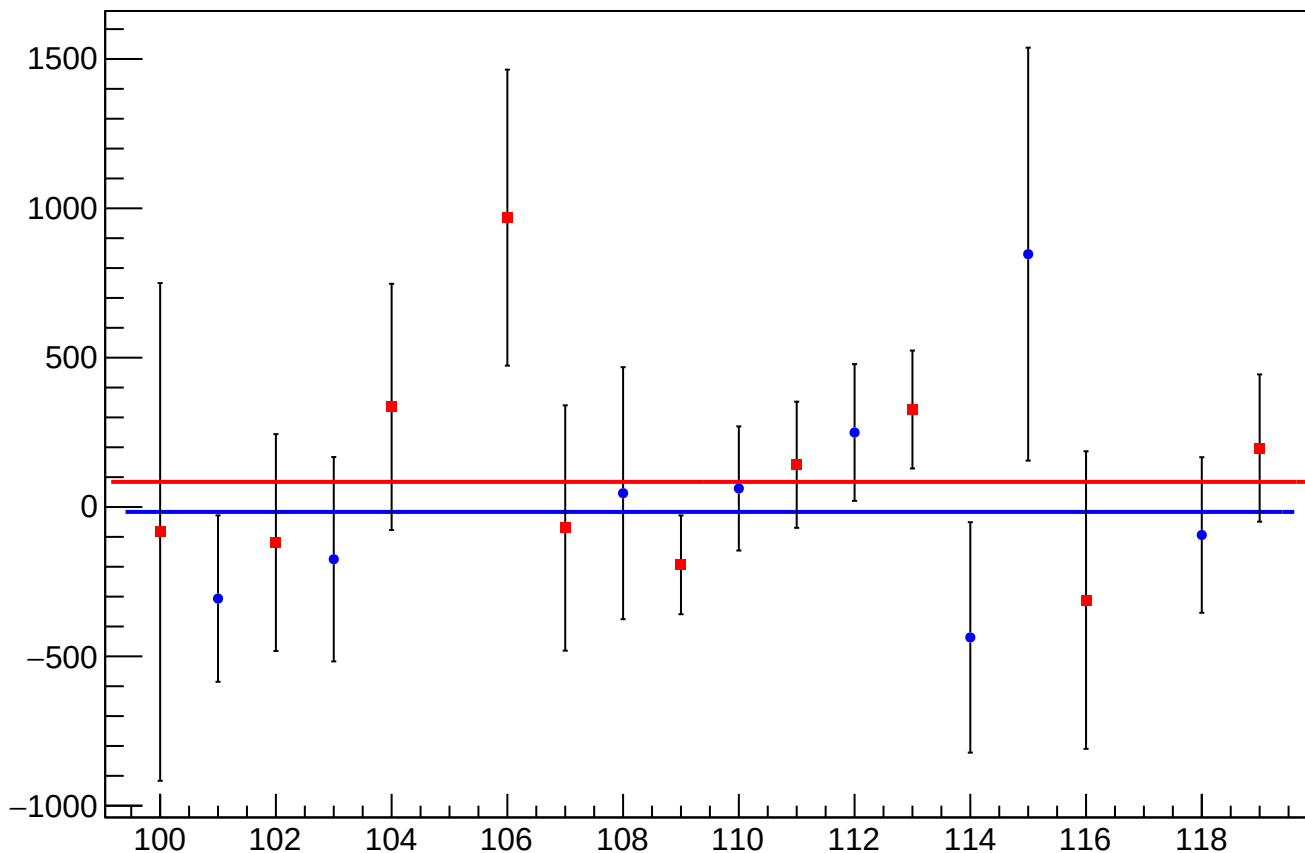
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 161.664 $\pm$ 0.045  $\chi^2$ /NDF: 1497811.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_mean vs Slug



Right In: -16.421+/-103.774  $\chi^2/\text{NDF}$ : 5.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 84.110+/-87.683  $\chi^2/\text{NDF}$ : 9.3/9

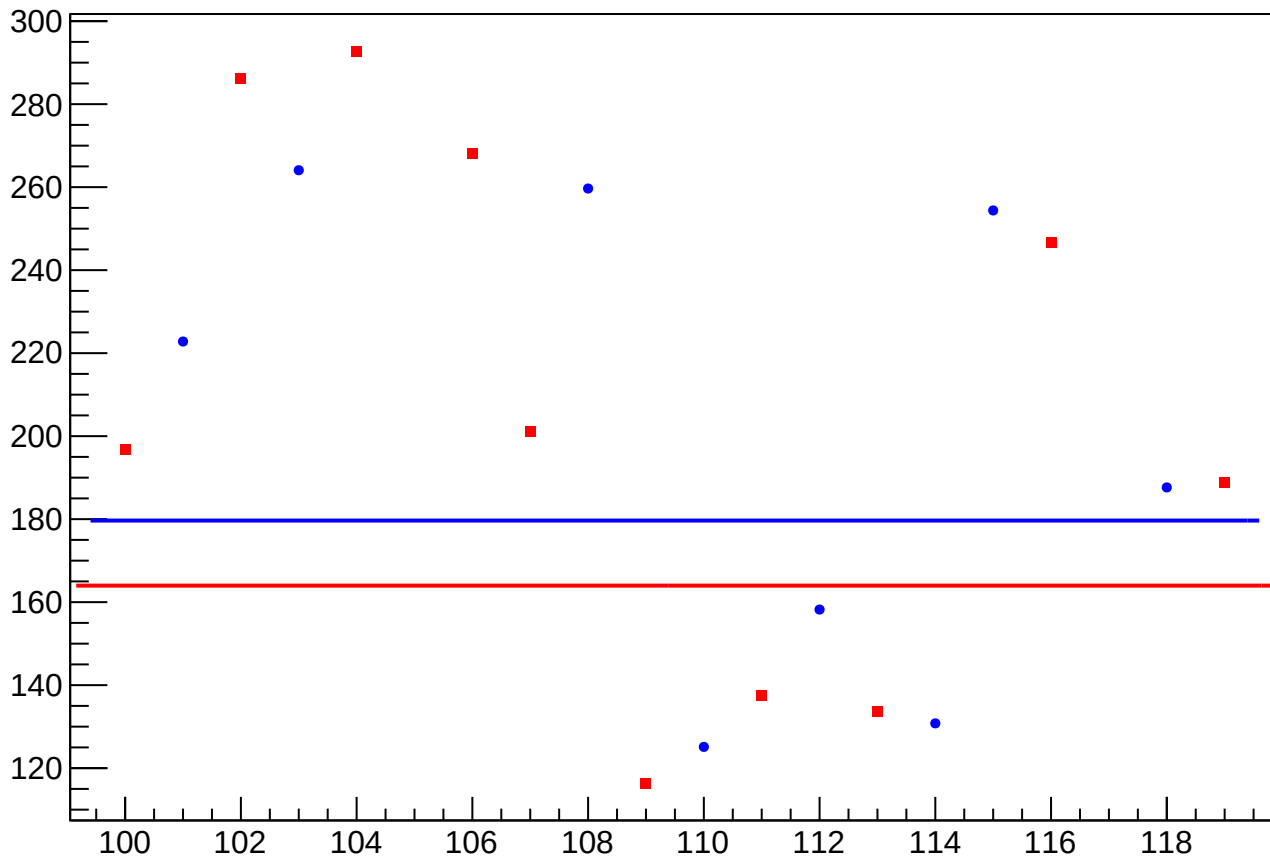
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 42.234+/-66.976  $\chi^2/\text{NDF}$ : 15.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_rms vs Slug



Right In: 179.663 $\pm$ 0.073  $\chi^2$ /NDF: 454353.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 163.983 $\pm$ 0.062  $\chi^2$ /NDF: 849337.7/9

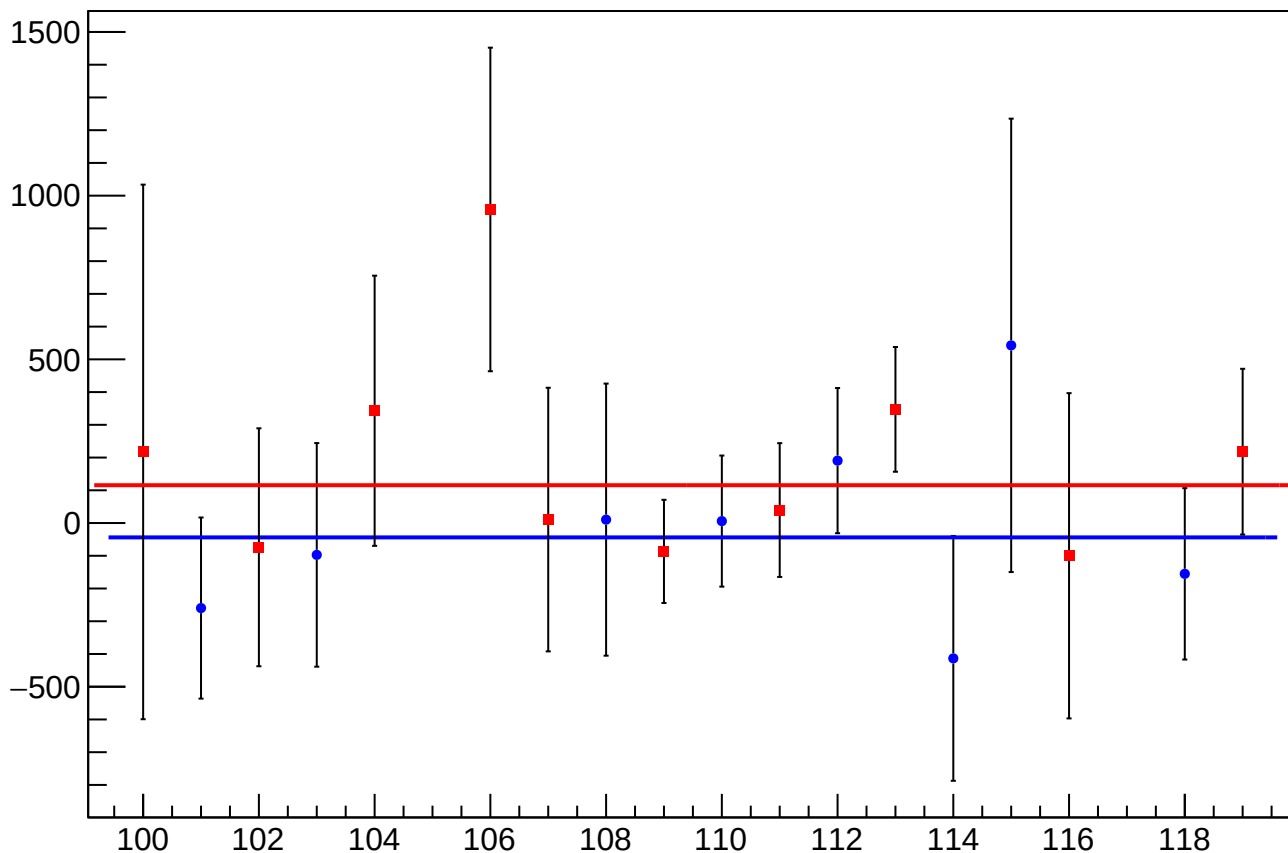
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 170.514 $\pm$ 0.047  $\chi^2$ /NDF: 1330329.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_ds\_mean vs Slug



Right In: -43.879+/-101.779  $\chi^2/\text{NDF}$ : 3.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 115.531+/-85.546  $\chi^2/\text{NDF}$ : 7.2/9

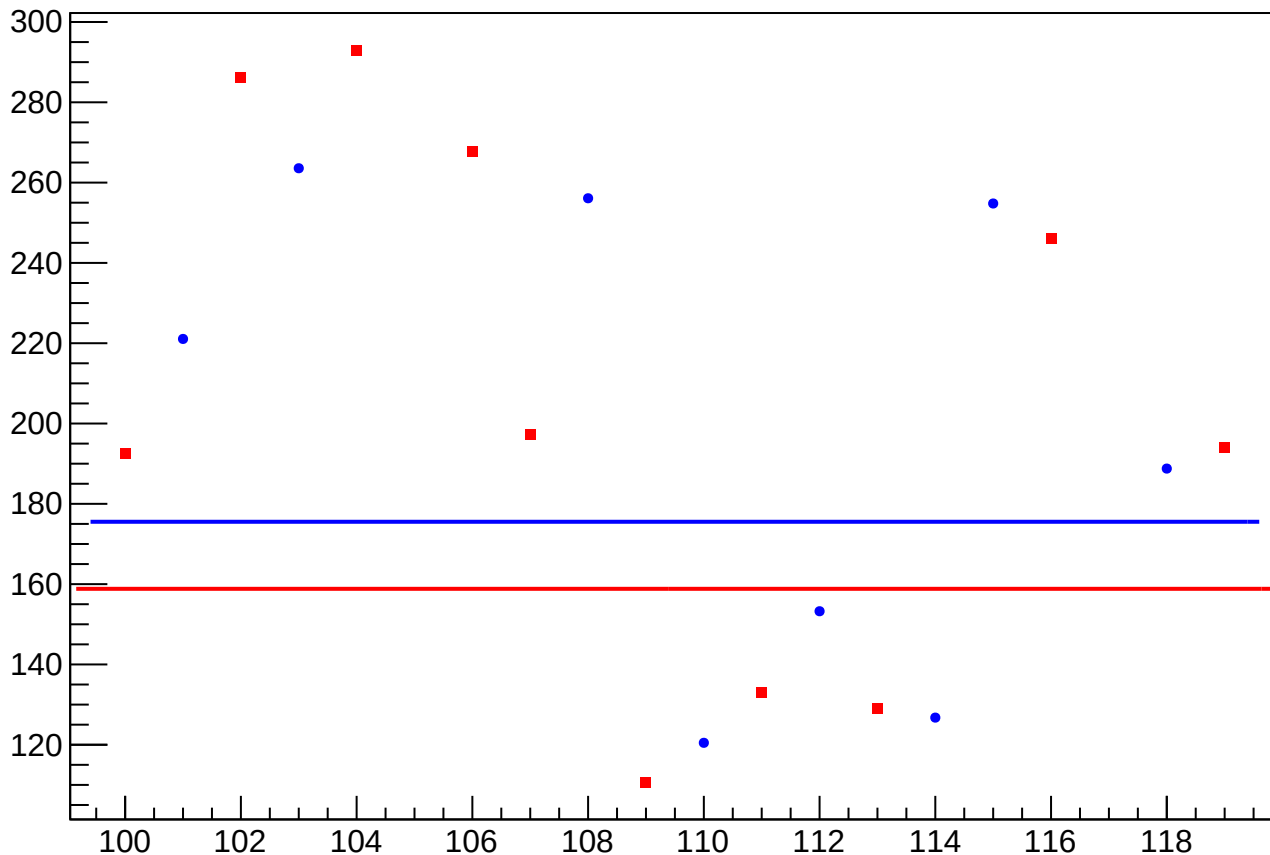
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.537+/-65.487  $\chi^2/\text{NDF}$ : 12.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_rms vs Slug



Right In: 175.534 $\pm$ 0.072  $\chi^2$ /NDF: 499002.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 158.836 $\pm$ 0.060  $\chi^2$ /NDF: 944407.3/9

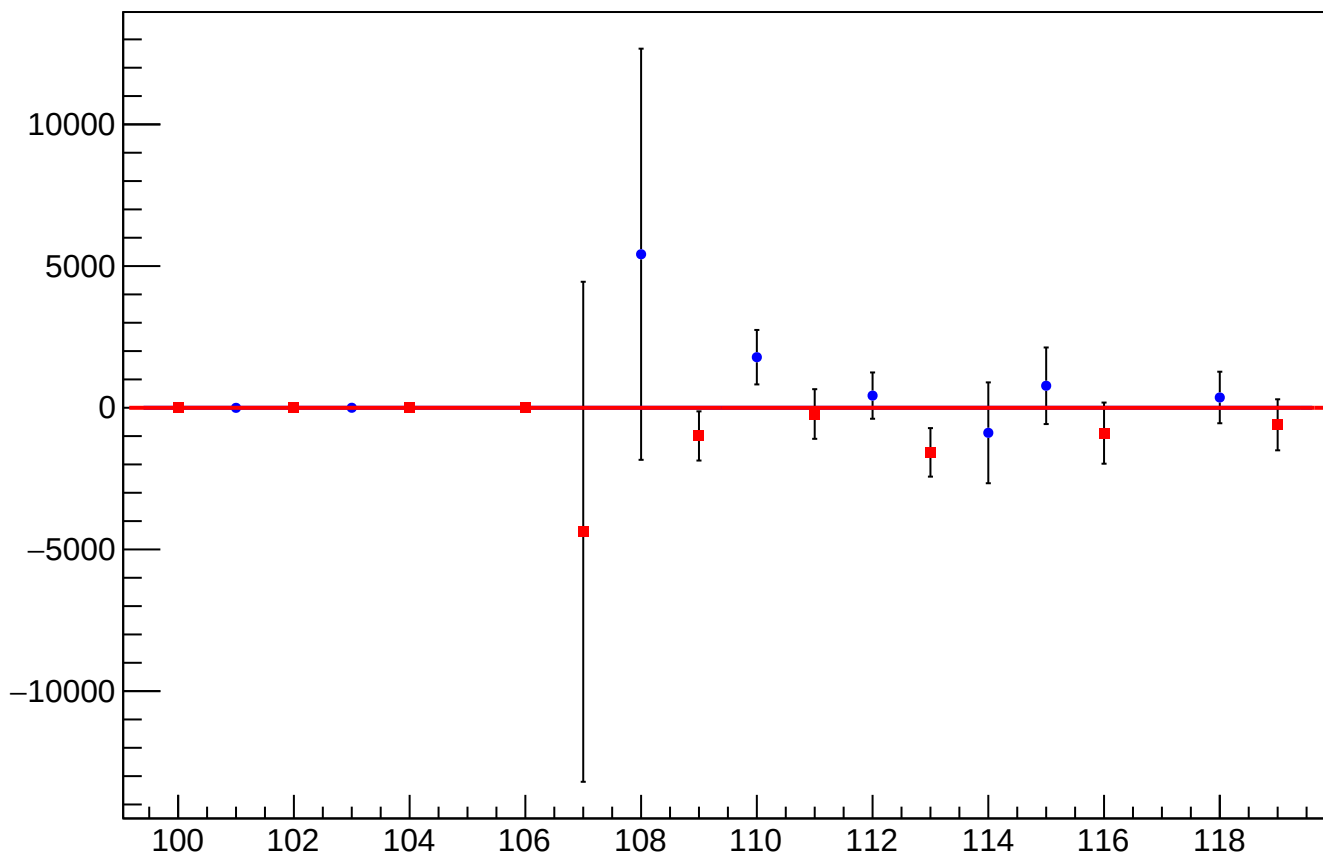
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 165.749 $\pm$ 0.046  $\chi^2$ /NDF: 1474956.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4bQ\_mean vs Slug



Right In: -1.203+/-2.171  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.384+/-2.022  $\chi^2/\text{NDF}$ : 11.3/9

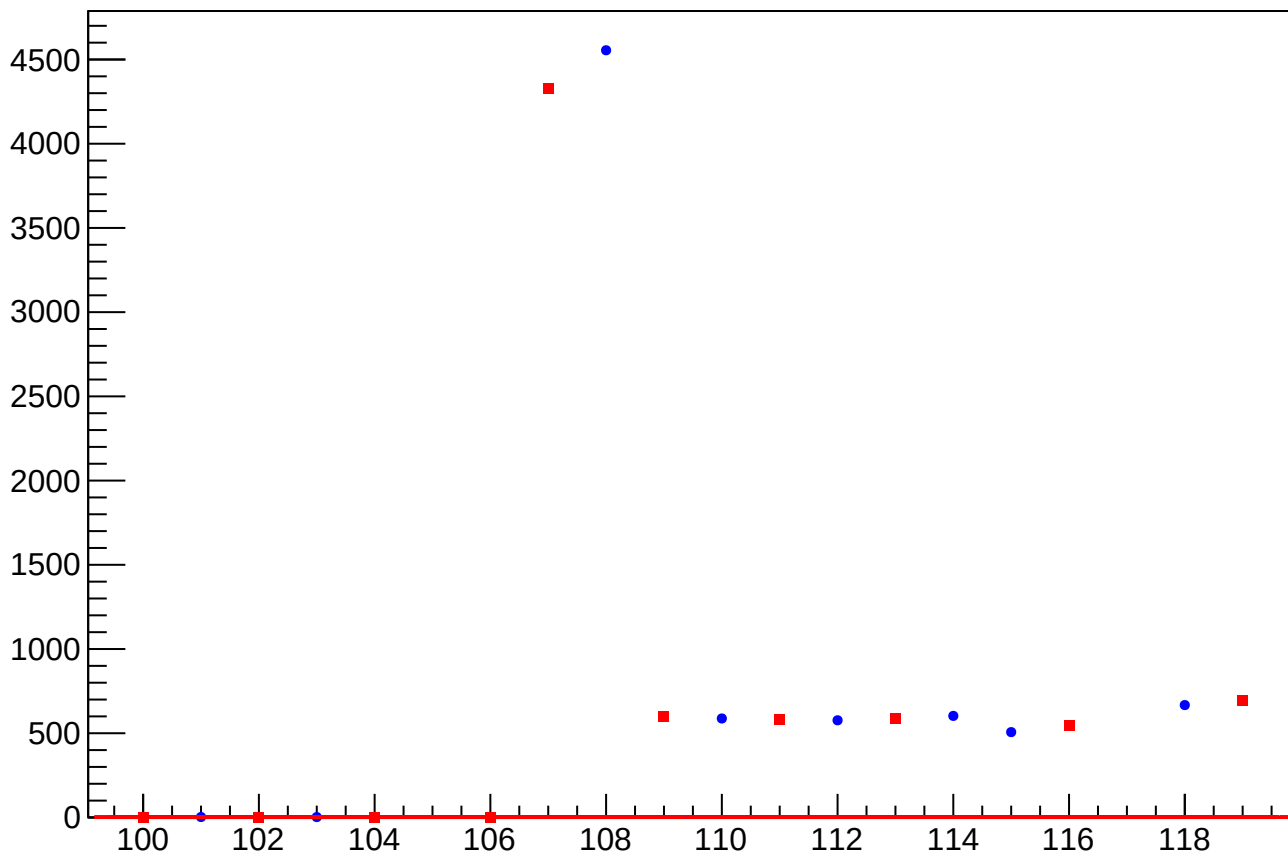
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.300+/-1.480  $\chi^2/\text{NDF}$ : 16.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_cav4bQ\_rms vs Slug



Right In: 2.443+/-0.002     $\chi^2/\text{NDF}$ : 4107784.5/7

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.438+/-0.001     $\chi^2/\text{NDF}$ : 4945127.4/9

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

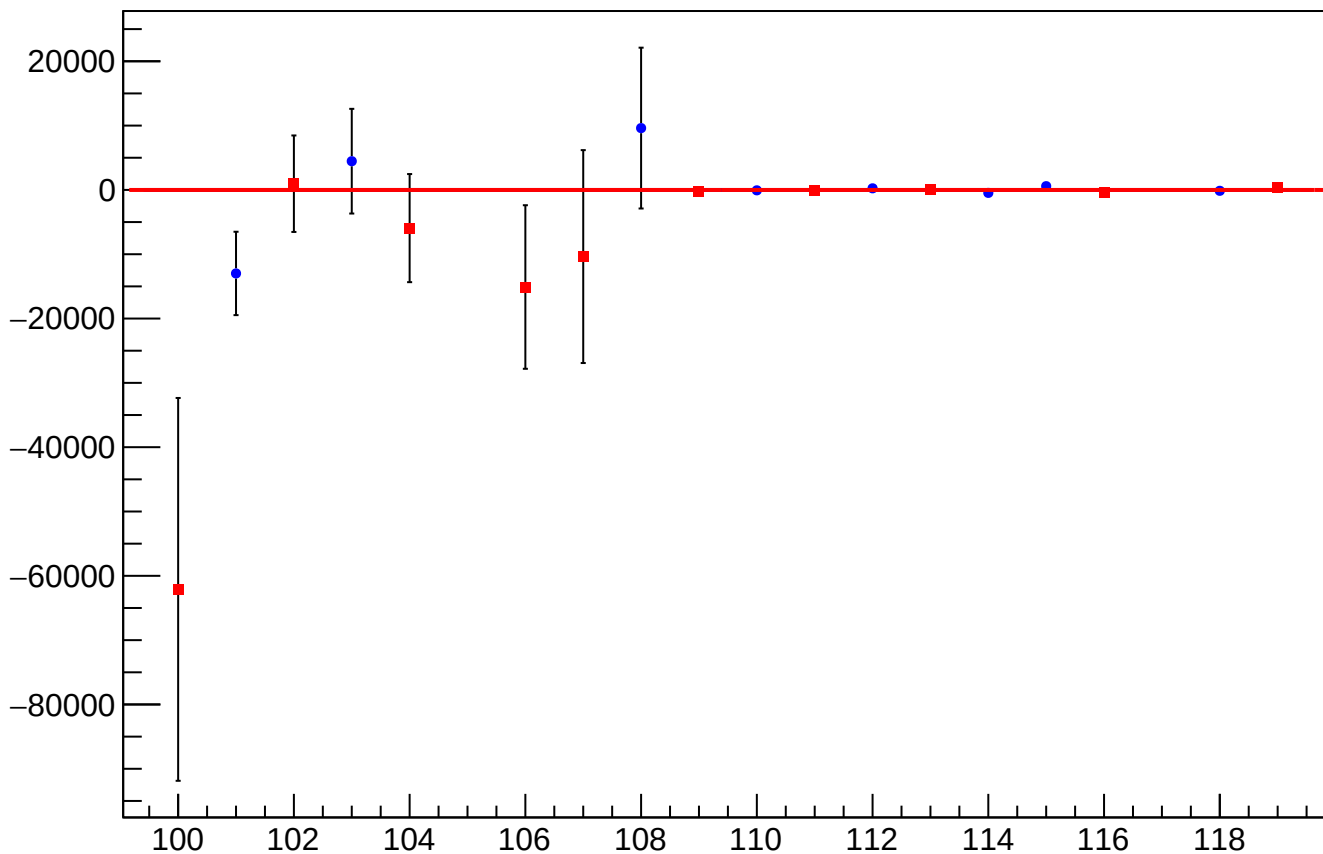
+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 2.440+/-0.001     $\chi^2/\text{NDF}$ : 9052918.3/17

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0



# asym\_cav4cQ\_mean vs Slug



Right In: -12.646 $\pm$ 123.076  $\chi^2$ /NDF: 8.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.260 $\pm$ 107.422  $\chi^2$ /NDF: 9.7/9

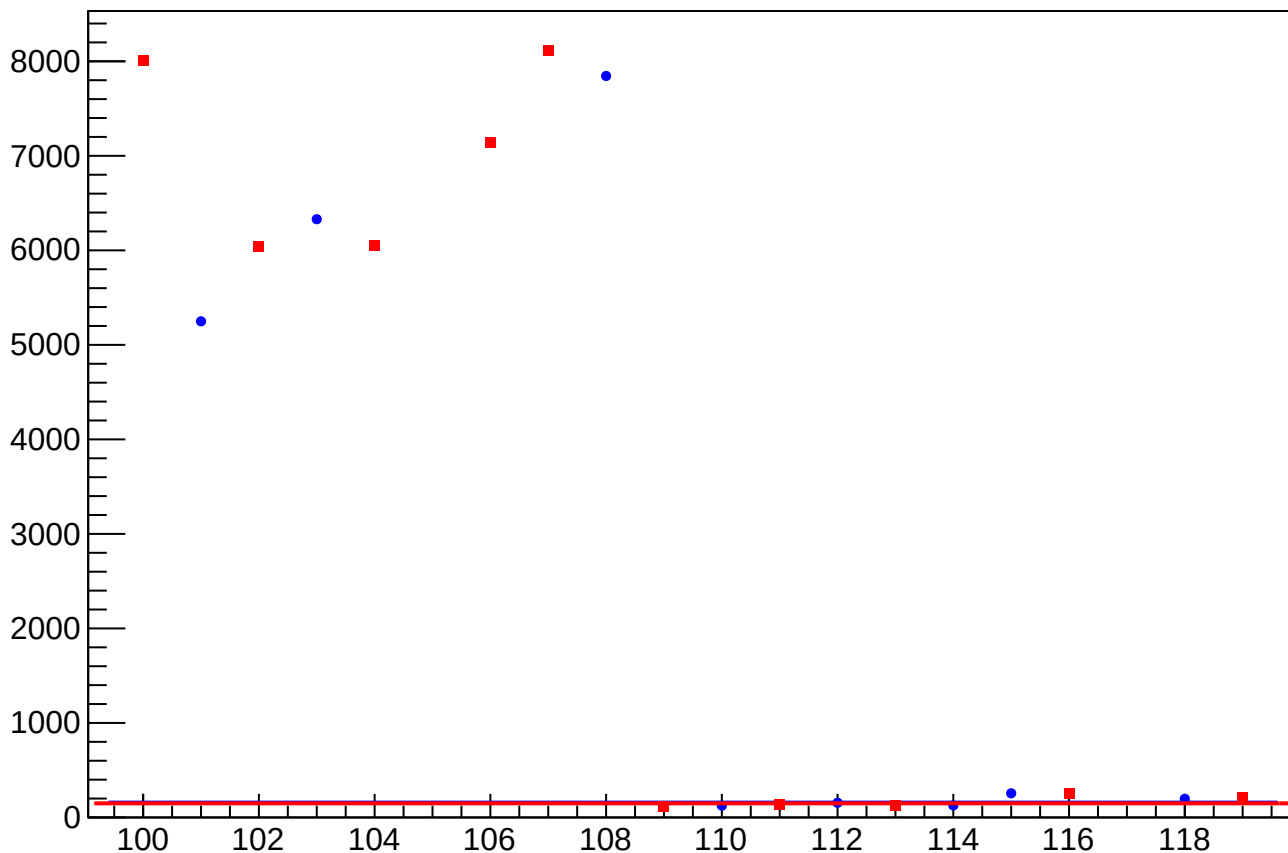
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -10.157 $\pm$ 80.931  $\chi^2$ /NDF: 18.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4cQ\_rms vs Slug



Right In: 156.981+/-0.087  $\chi^2/\text{NDF}$ : 3286997.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 149.296+/-0.076  $\chi^2/\text{NDF}$ : 3673898.3/9

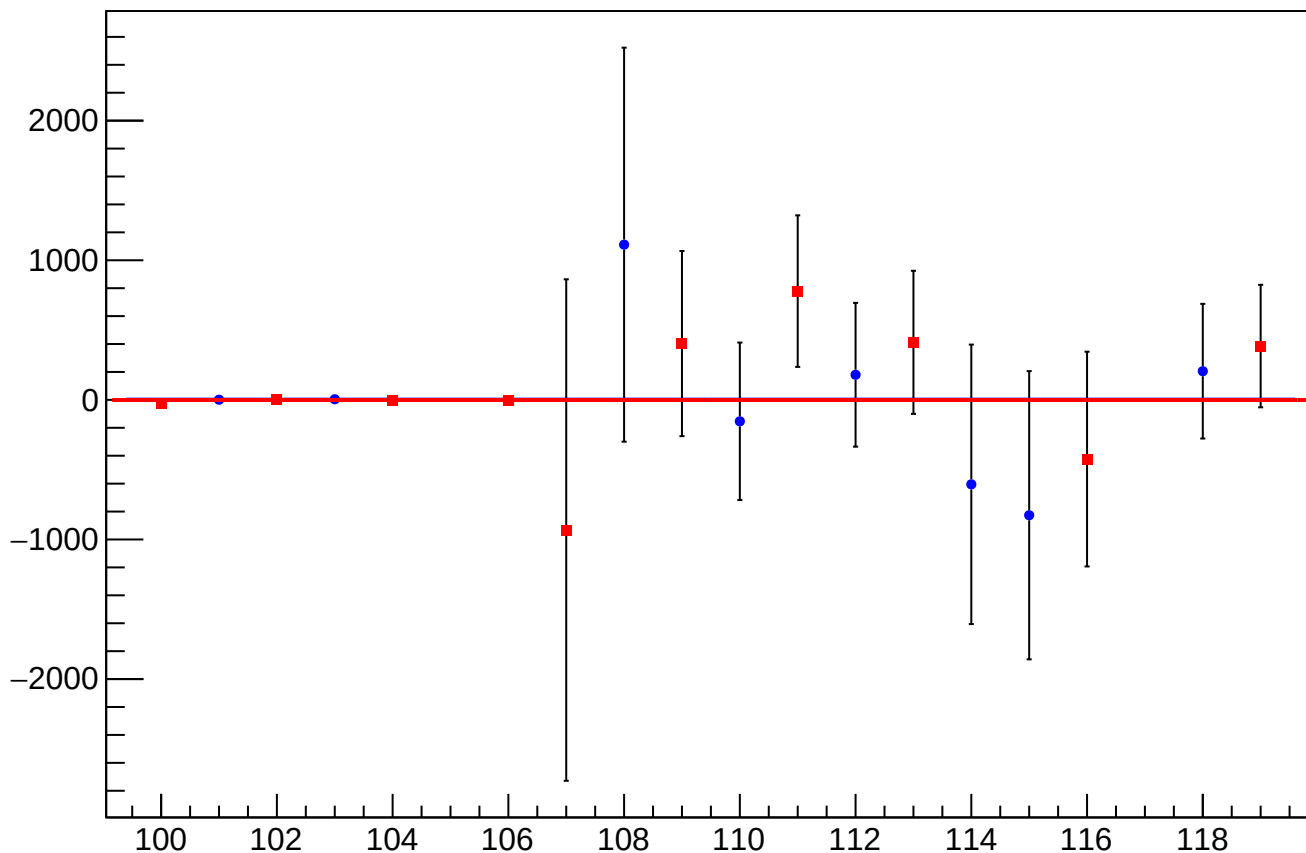
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 152.619+/-0.057  $\chi^2/\text{NDF}$ : 6965322.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_cav4dQ\_mean vs Slug



Right In: 1.444+/-1.660  $\chi^2/\text{NDF}$ : 2.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.099+/-1.528  $\chi^2/\text{NDF}$ : 6.9/9

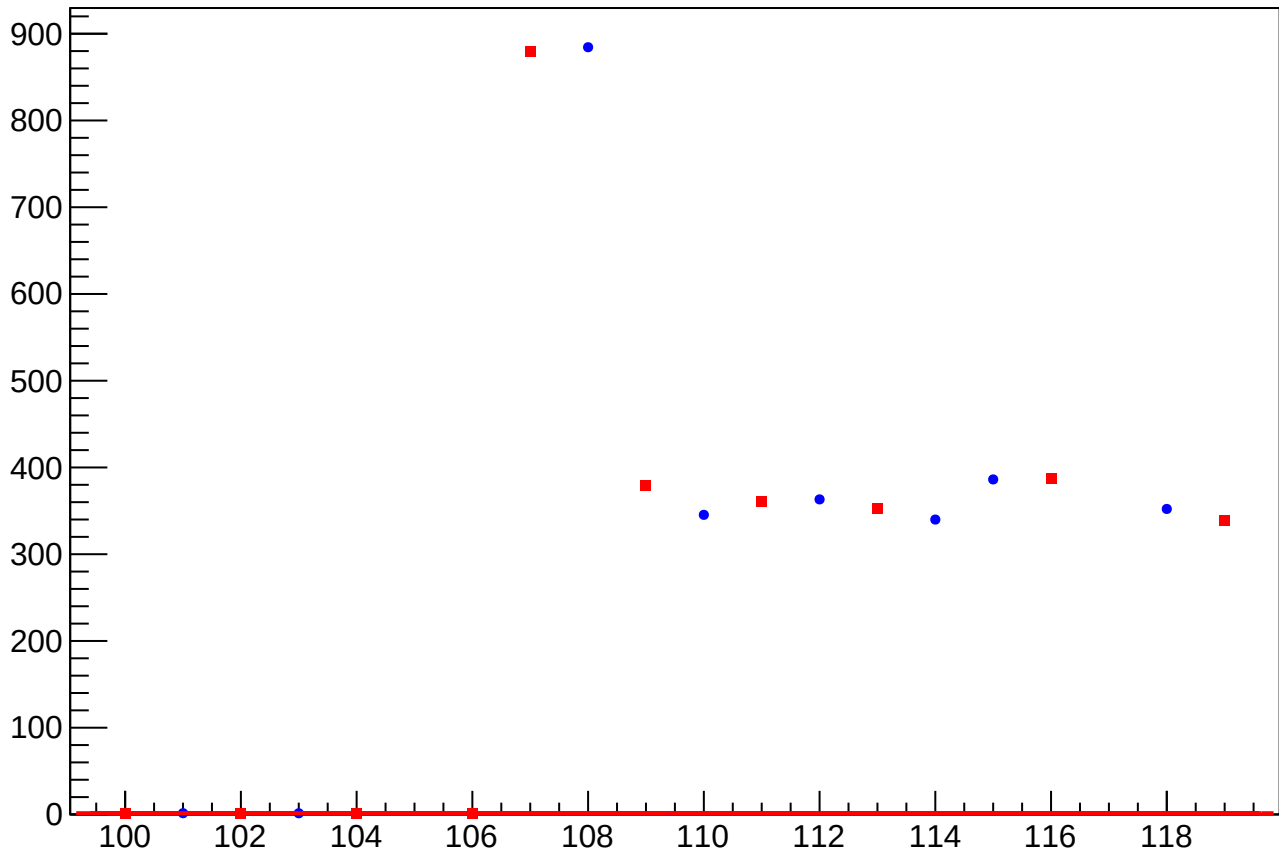
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.067+/-1.124  $\chi^2/\text{NDF}$ : 10.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_cav4dQ\_rms vs Slug



Right In: 1.443+/-0.001  $\chi^2/\text{NDF}$ : 4078346.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.447+/-0.001  $\chi^2/\text{NDF}$ : 4627354.1/9

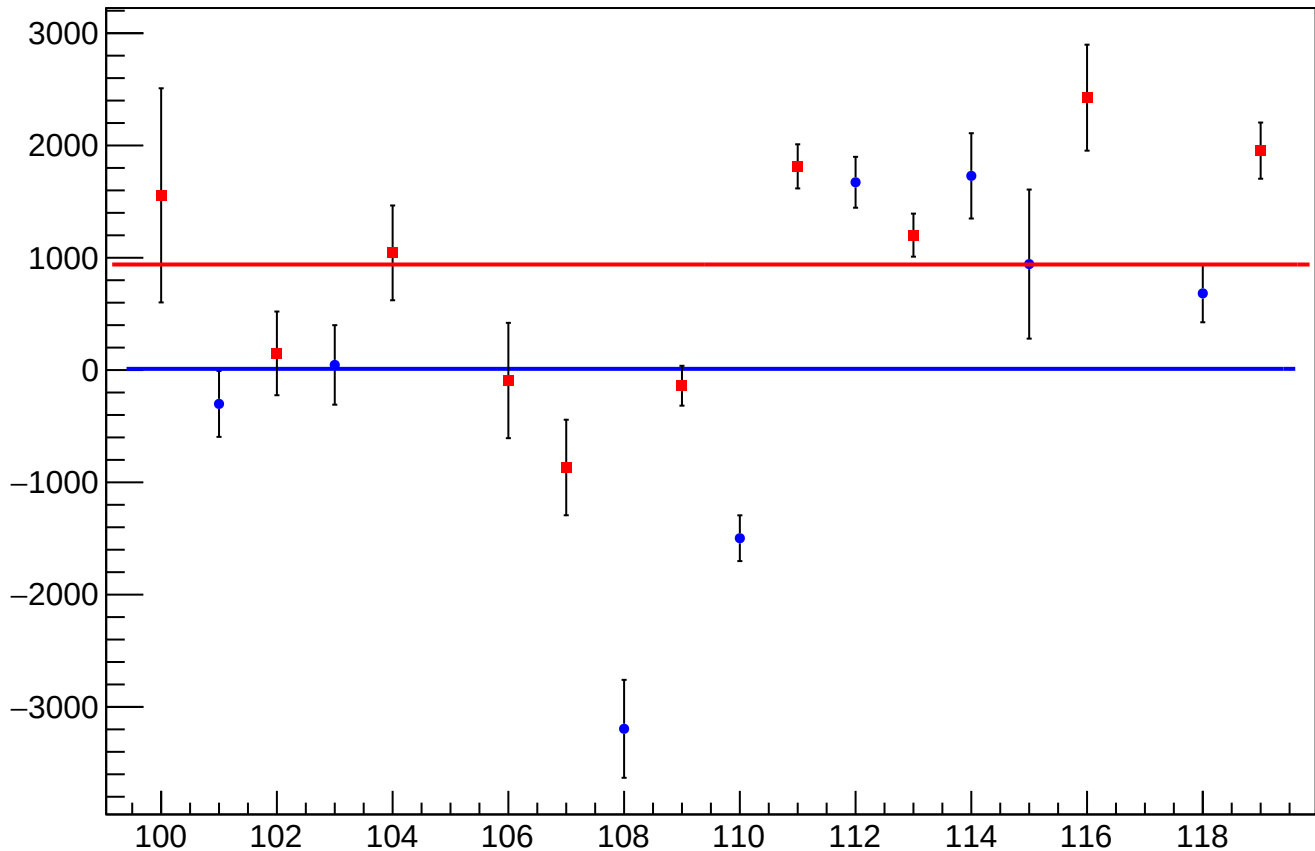
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.446+/-0.001  $\chi^2/\text{NDF}$ : 8705707.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm0l02\_mean vs Slug



Right In: 10.796+/-103.893  $\chi^2/\text{NDF}$ : 192.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 940.052+/-88.199  $\chi^2/\text{NDF}$ : 112.1/9

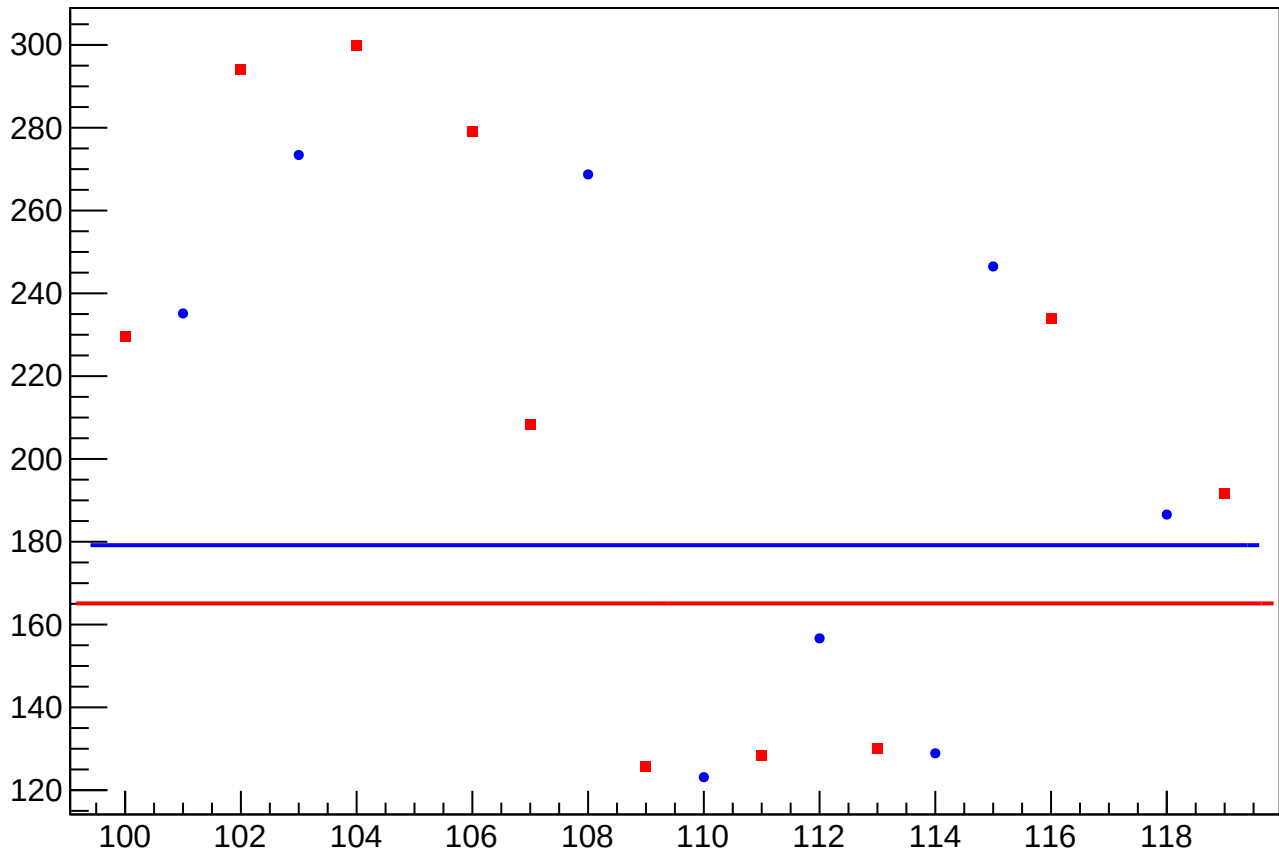
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 550.840+/-67.238  $\chi^2/\text{NDF}$ : 351.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm0l02\_rms vs Slug



Right In: 179.171+/-0.073  $\chi^2/\text{NDF}$ : 526864.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 165.107+/-0.062  $\chi^2/\text{NDF}$ : 872382.0/9

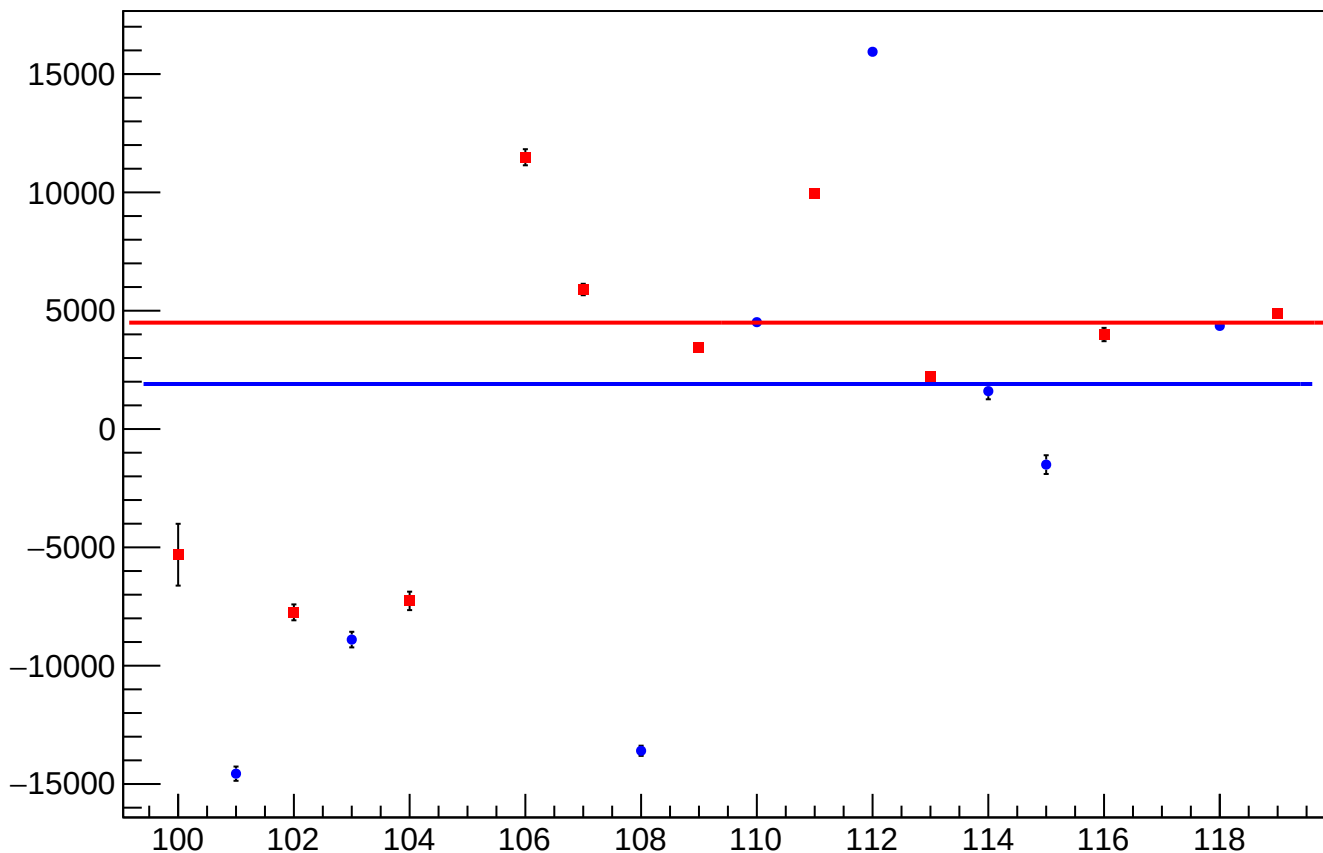
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 170.998+/-0.048  $\chi^2/\text{NDF}$ : 1420545.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02WS\_mean vs Slug



Right In: 1903.123+/-79.352  $\chi^2/\text{NDF}$ : 16327.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4495.526+/-69.852  $\chi^2/\text{NDF}$ : 4220.0/9

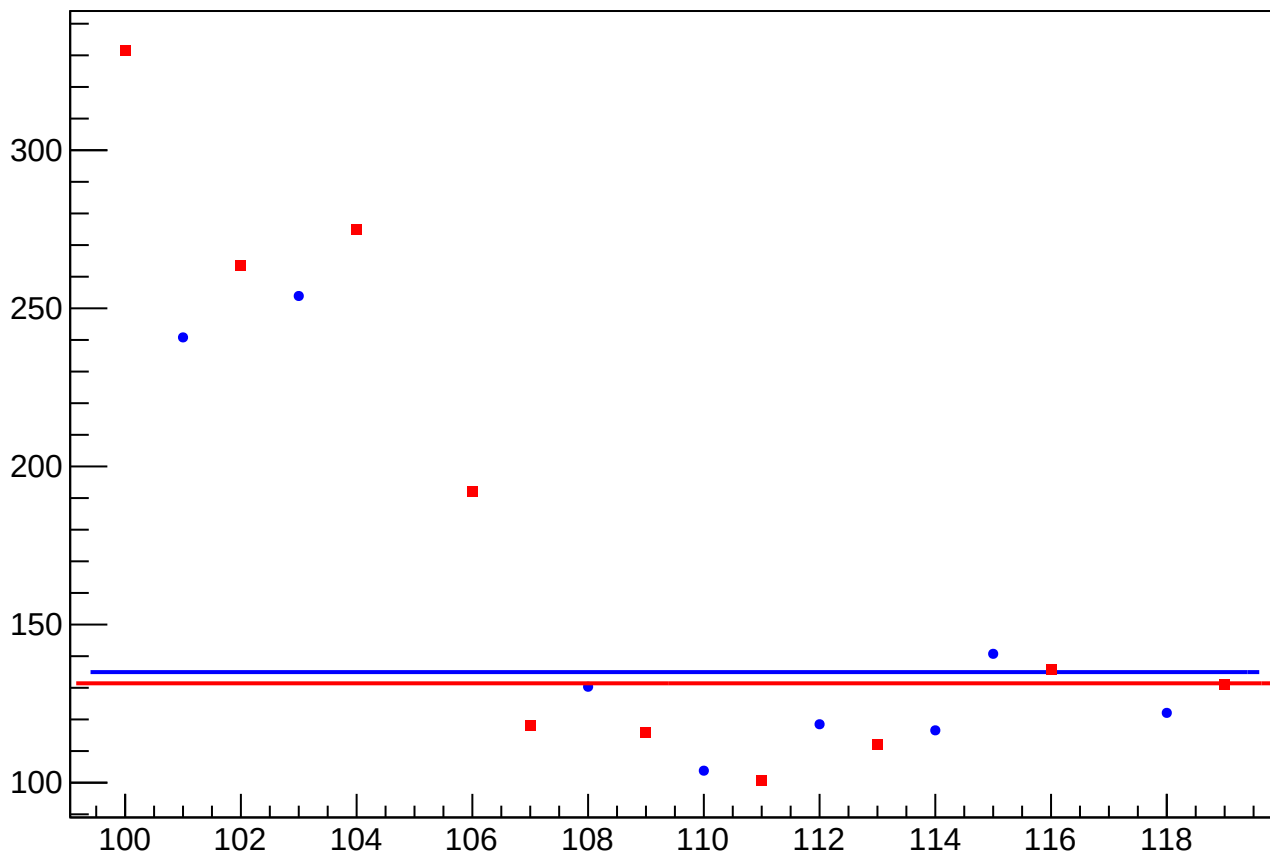
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3363.725+/-52.431  $\chi^2/\text{NDF}$ : 21148.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02WS\_rms vs Slug



Right In: 134.968 $\pm$ 0.056  $\chi^2$ /NDF: 609409.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 131.423 $\pm$ 0.049  $\chi^2$ /NDF: 820811.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

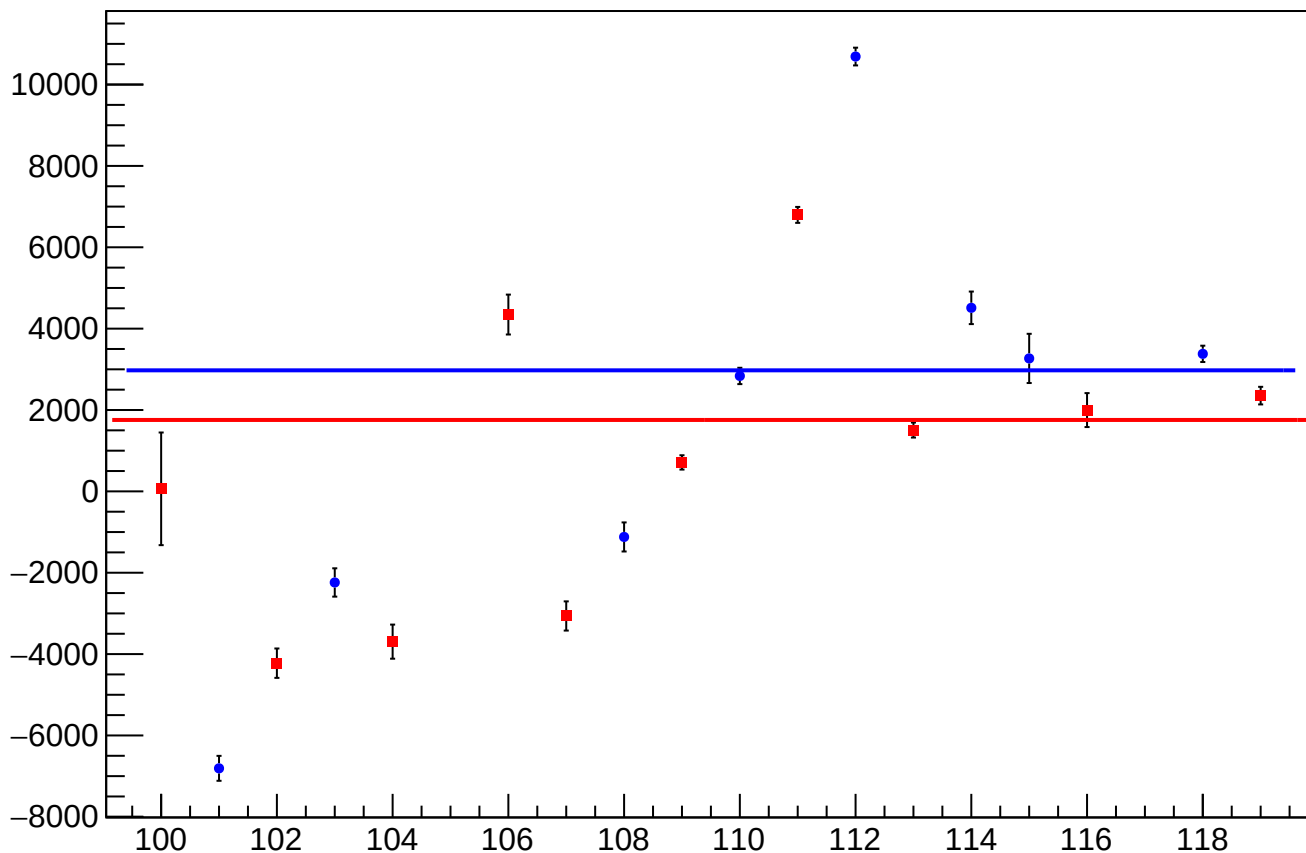
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 132.971 $\pm$ 0.037  $\chi^2$ /NDF: 1432468.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bpm0i02aWS\_mean vs Slug



Right In: 2975.207+/-96.952  $\chi^2/\text{NDF}$ : 2644.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1755.384+/-84.359  $\chi^2/\text{NDF}$ : 1358.8/9

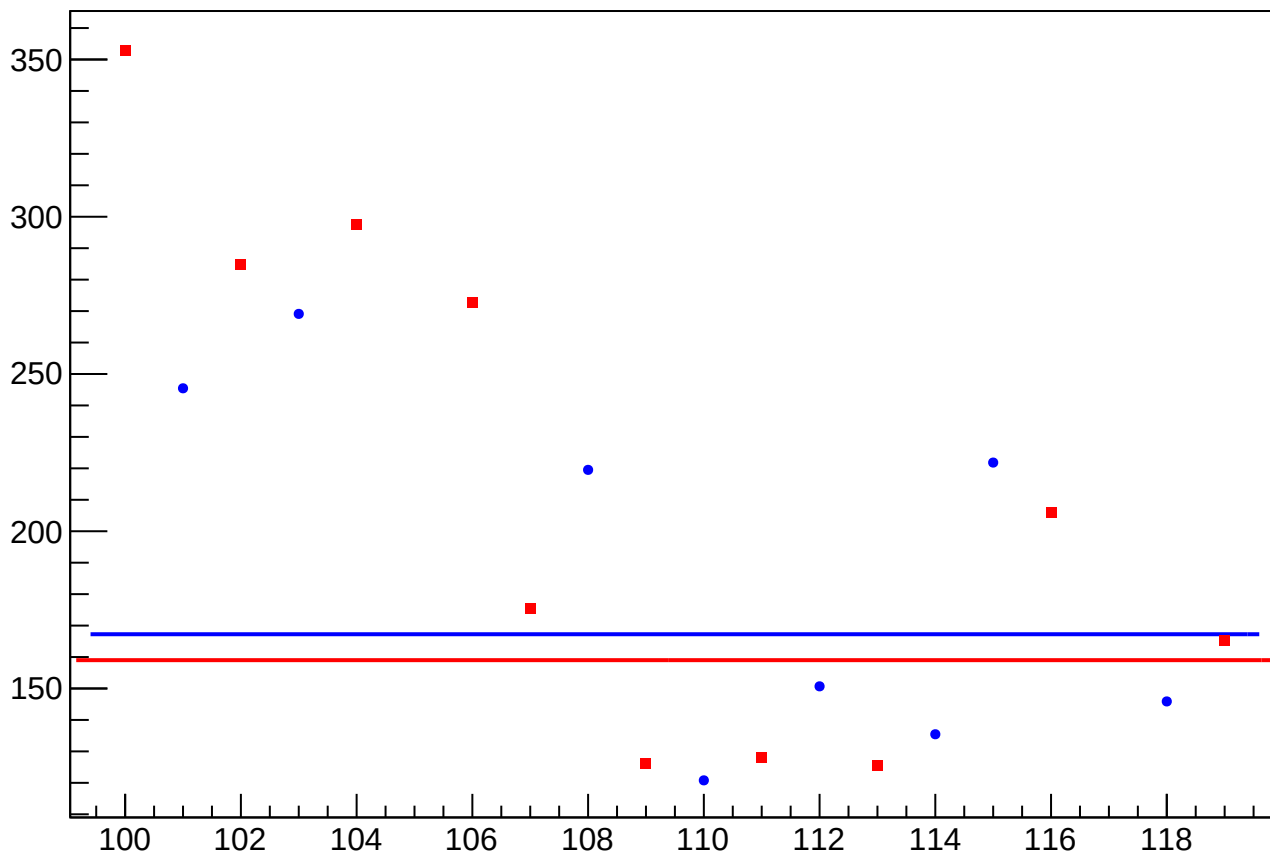
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2280.978+/-63.641  $\chi^2/\text{NDF}$ : 4093.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02aWS\_rms vs Slug



Right In: 167.252+/-0.069  $\chi^2/\text{NDF}$ : 514336.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 159.009+/-0.060  $\chi^2/\text{NDF}$ : 825835.6/9

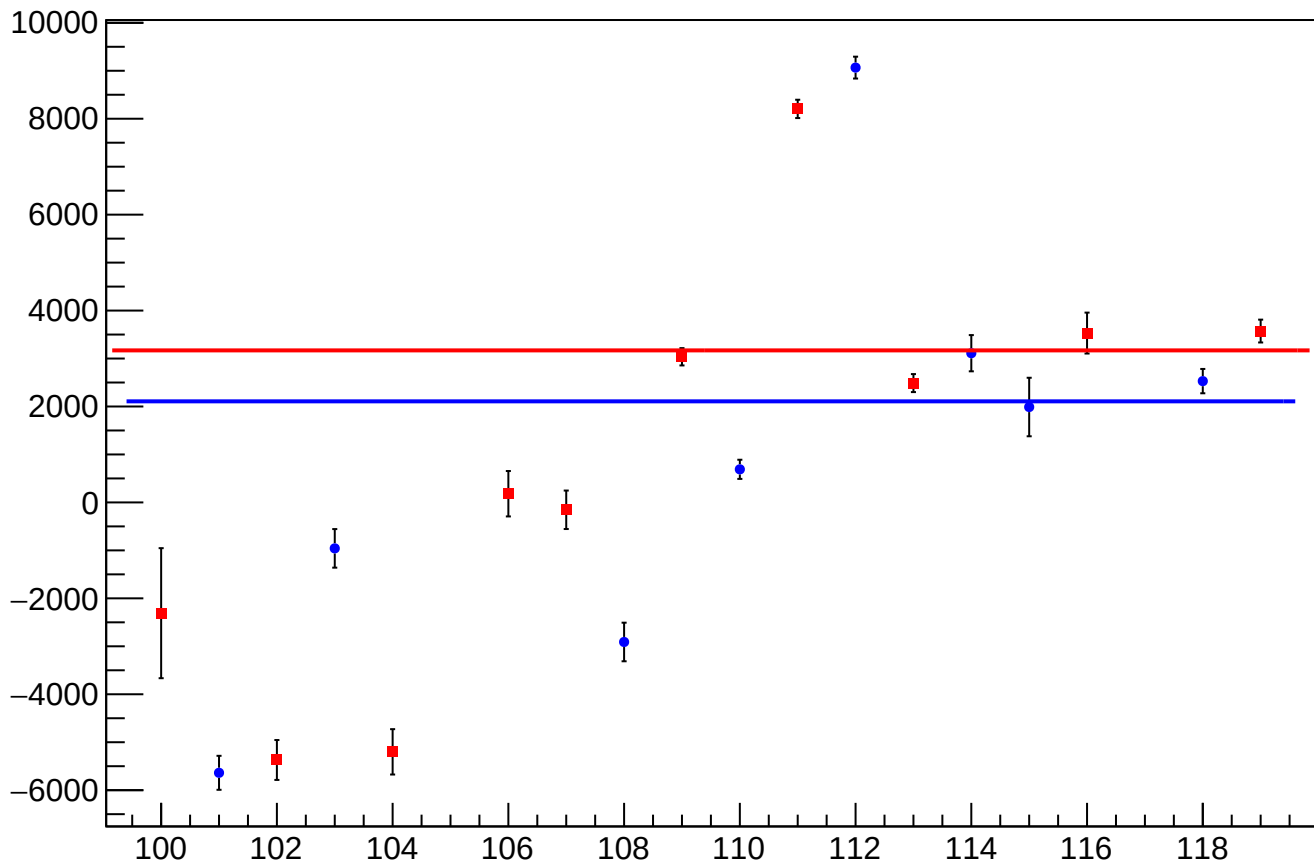
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 162.560+/-0.045  $\chi^2/\text{NDF}$ : 1348400.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i05WS\_mean vs Slug



Right In: 2107.451+/-105.480  $\chi^2/\text{NDF}$ : 1683.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3169.821+/-87.316  $\chi^2/\text{NDF}$ : 1572.2/9

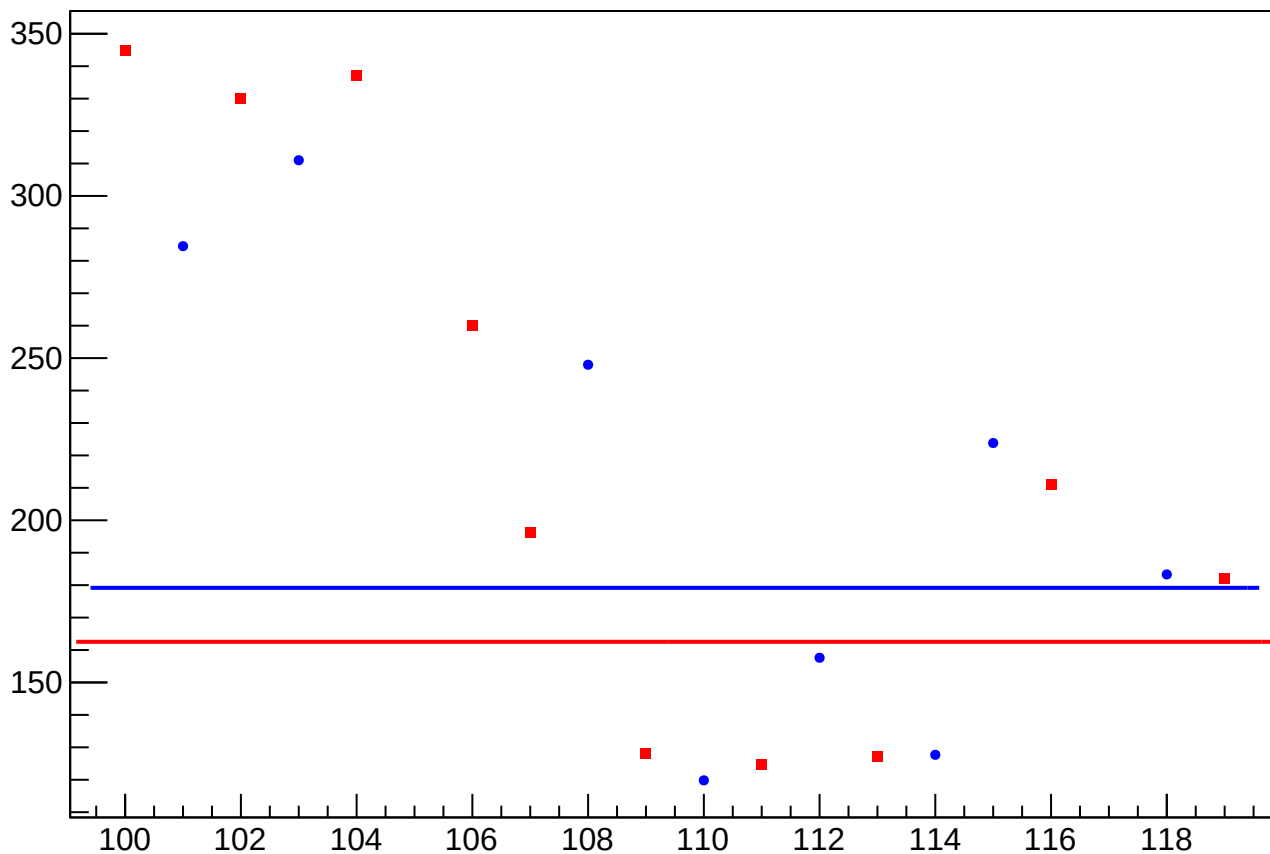
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2737.842+/-67.261  $\chi^2/\text{NDF}$ : 3316.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i05WS\_rms vs Slug



Right In: 179.179+/-0.075  $\chi^2/\text{NDF}$ : 693016.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 162.537+/-0.062  $\chi^2/\text{NDF}$ : 993754.5/9

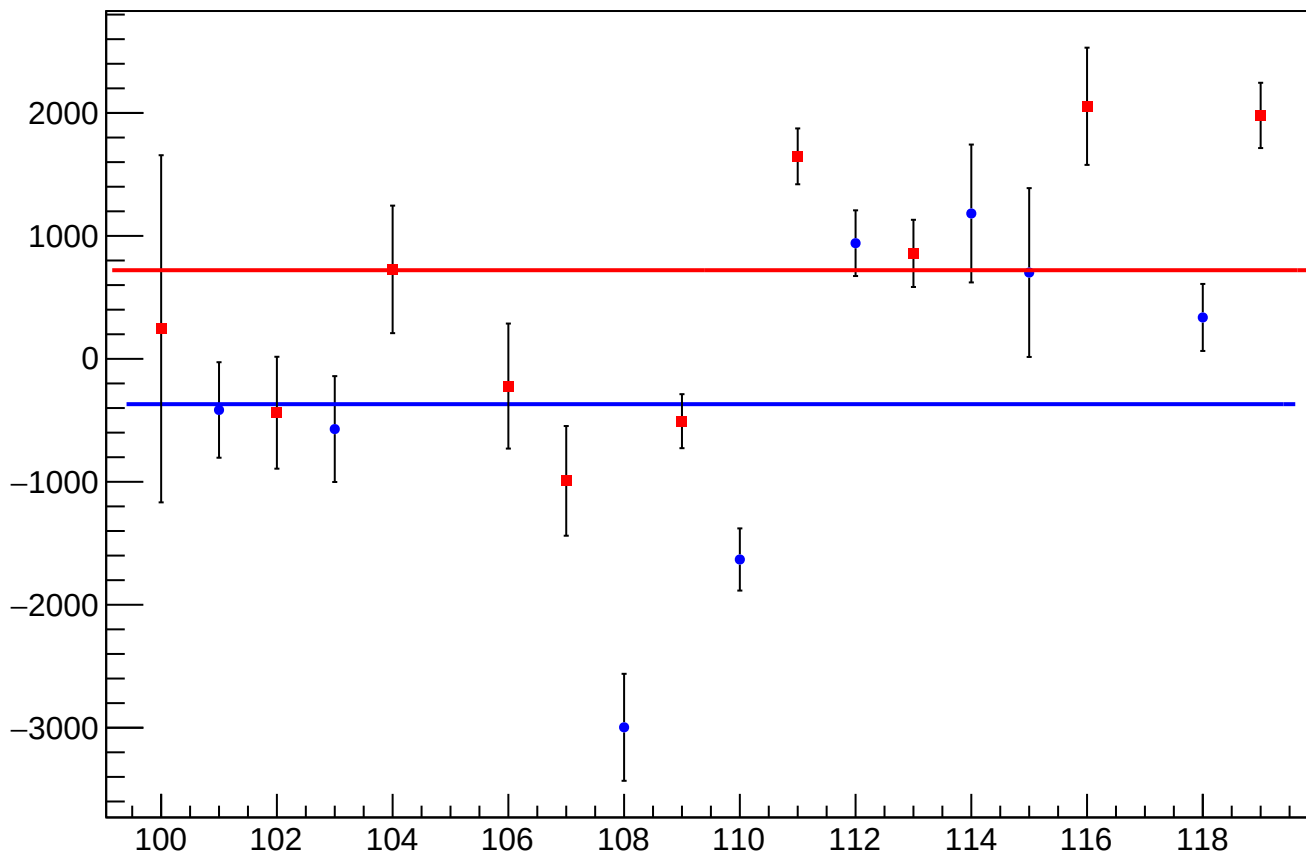
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 169.304+/-0.048  $\chi^2/\text{NDF}$ : 1716314.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i07WS\_mean vs Slug



Right In: -368.508+/-123.351  $\chi^2$ /NDF: 102.5/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 720.980+/-105.384  $\chi^2$ /NDF: 103.2/9

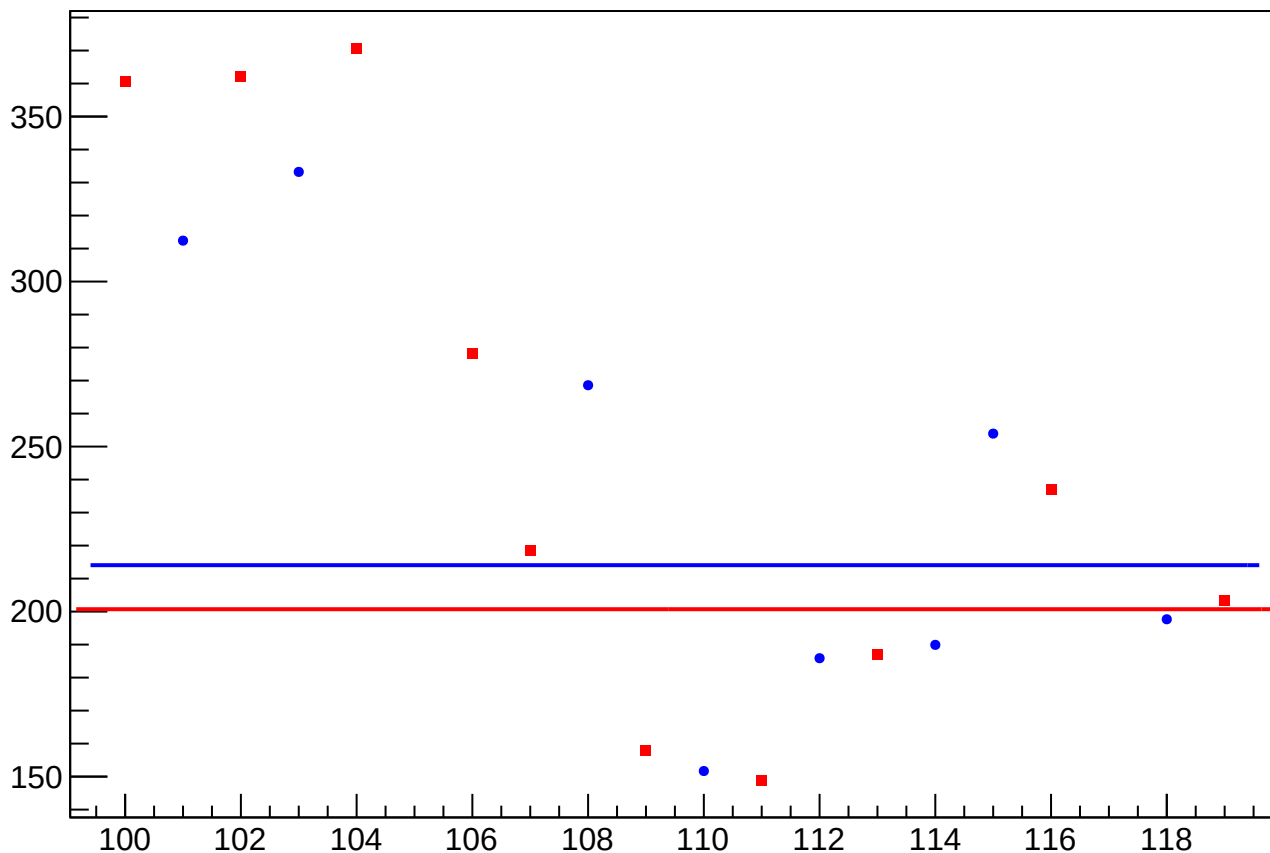
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 261.290+/-80.124  $\chi^2$ /NDF: 250.8/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i07WS\_rms vs Slug



Right In: 214.064 $\pm$ 0.087  $\chi^2$ /NDF: 474495.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 200.722 $\pm$ 0.075  $\chi^2$ /NDF: 737513.3/9

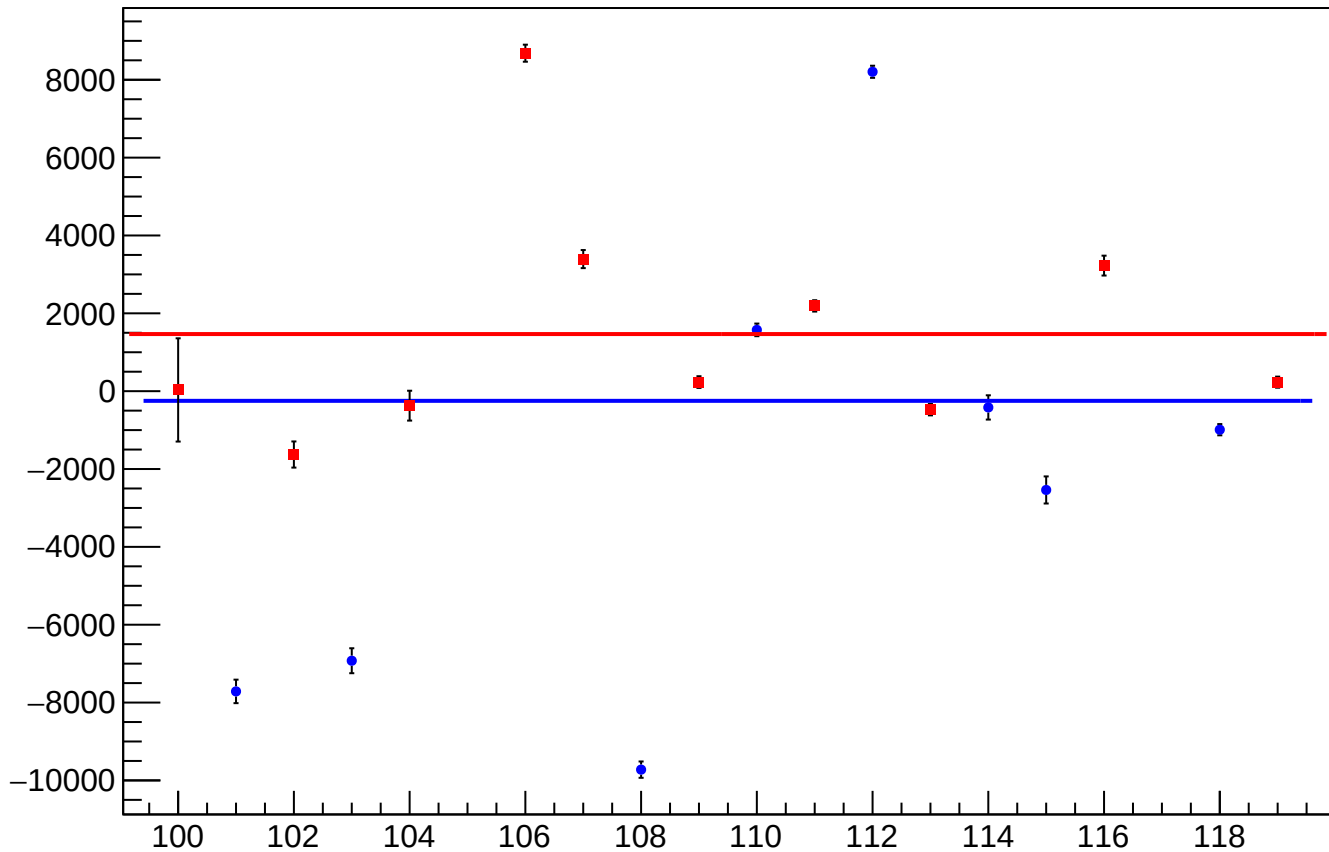
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 206.351 $\pm$ 0.057  $\chi^2$ /NDF: 1225534.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i02WS\_mean vs Slug



Right In: -248.400+/-72.661  $\chi^2/\text{NDF}$ : 6239.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1467.325+/-62.193  $\chi^2/\text{NDF}$ : 1655.9/9

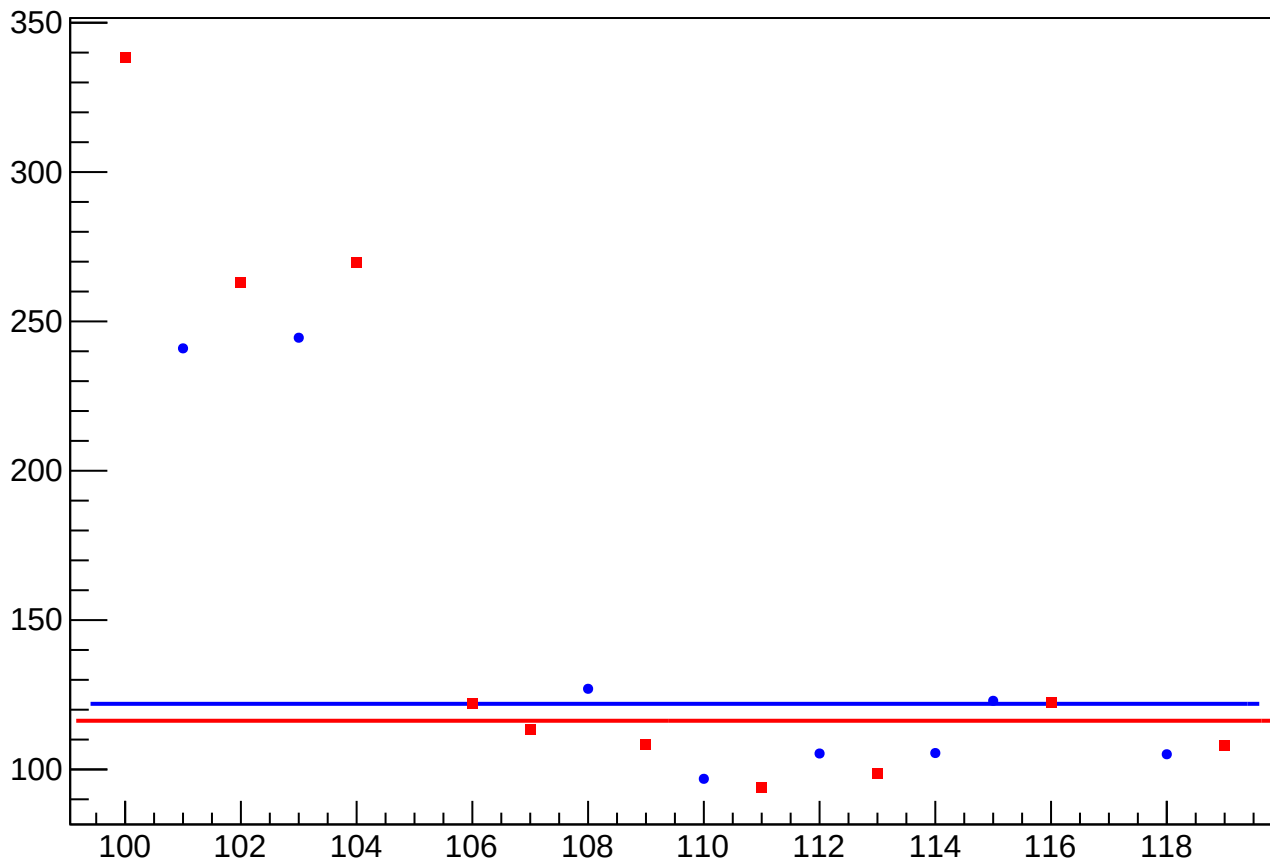
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 741.841+/-47.249  $\chi^2/\text{NDF}$ : 8216.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i02WS\_rms vs Slug



Right In: 121.968 $\pm$ 0.051  $\chi^2$ /NDF: 708485.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 116.300 $\pm$ 0.044  $\chi^2$ /NDF: 850391.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

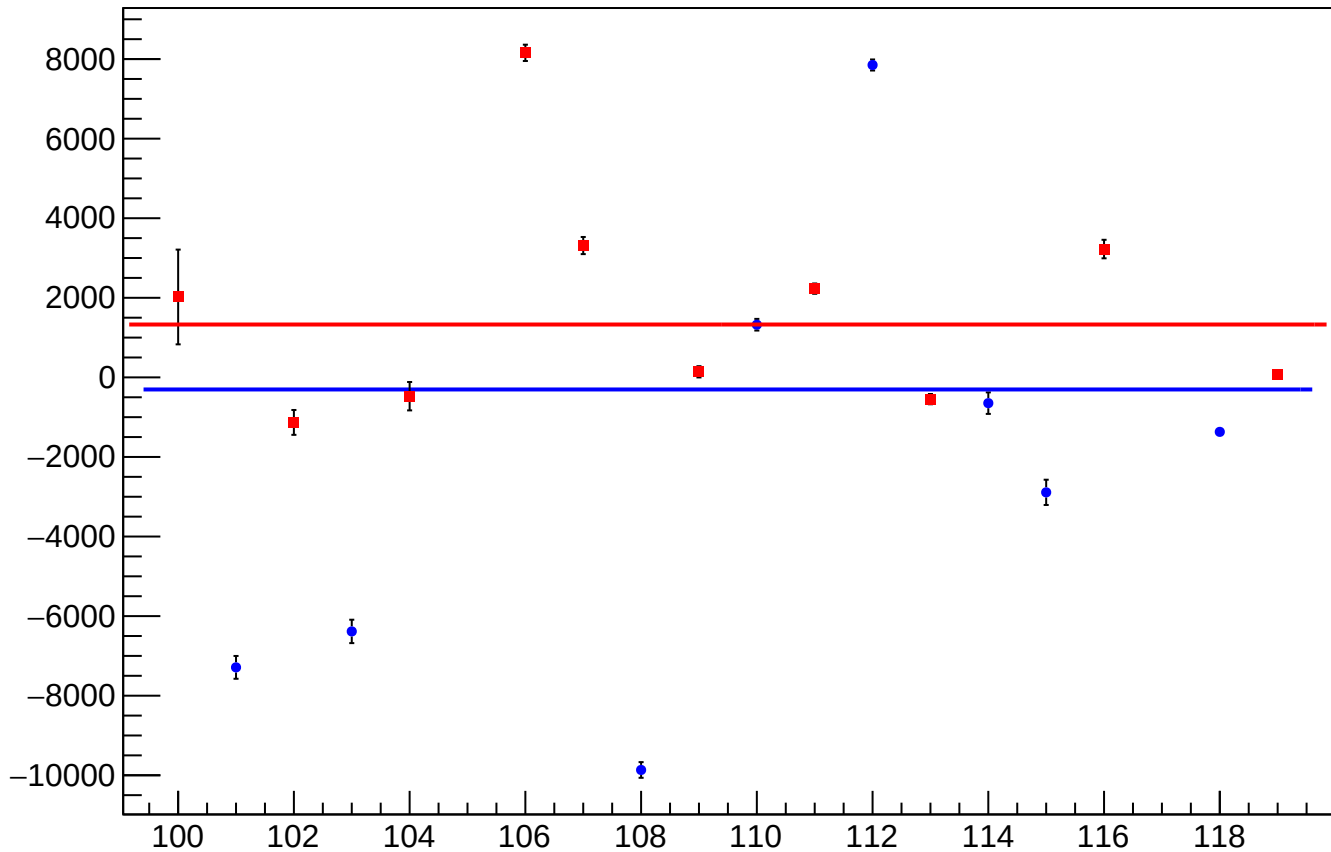
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 118.697 $\pm$ 0.033  $\chi^2$ /NDF: 1565900.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bpm2i01WS\_mean vs Slug



Right In:  $-303.838 \pm 65.272$   $\chi^2/\text{NDF}$ : 7092.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1328.682 \pm 56.088$   $\chi^2/\text{NDF}$ : 1781.8/9

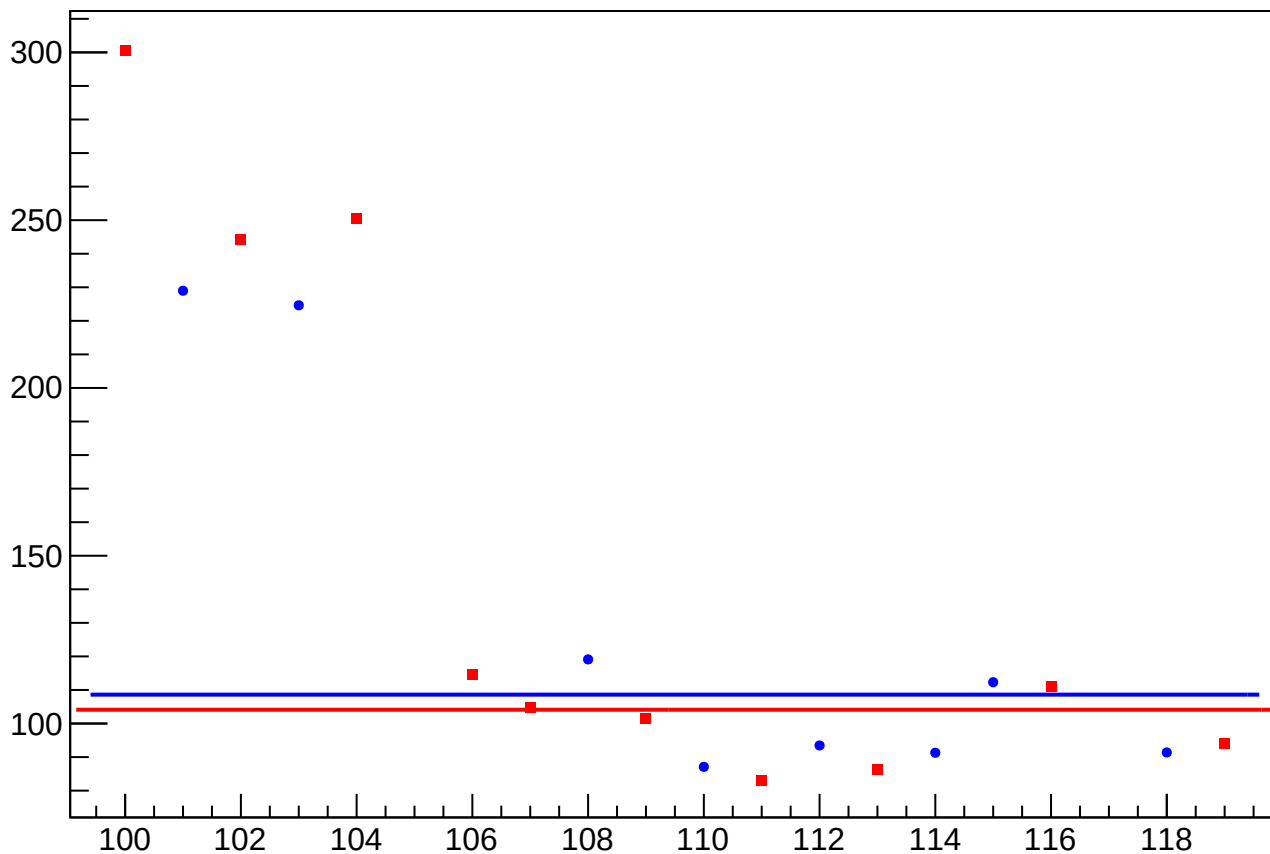
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $635.257 \pm 42.540$   $\chi^2/\text{NDF}$ : 9233.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm2i01WS\_rms vs Slug



Right In: 108.606 $\pm$ 0.046  $\chi^2$ /NDF: 782504.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 104.115 $\pm$ 0.040  $\chi^2$ /NDF: 905739.7/9

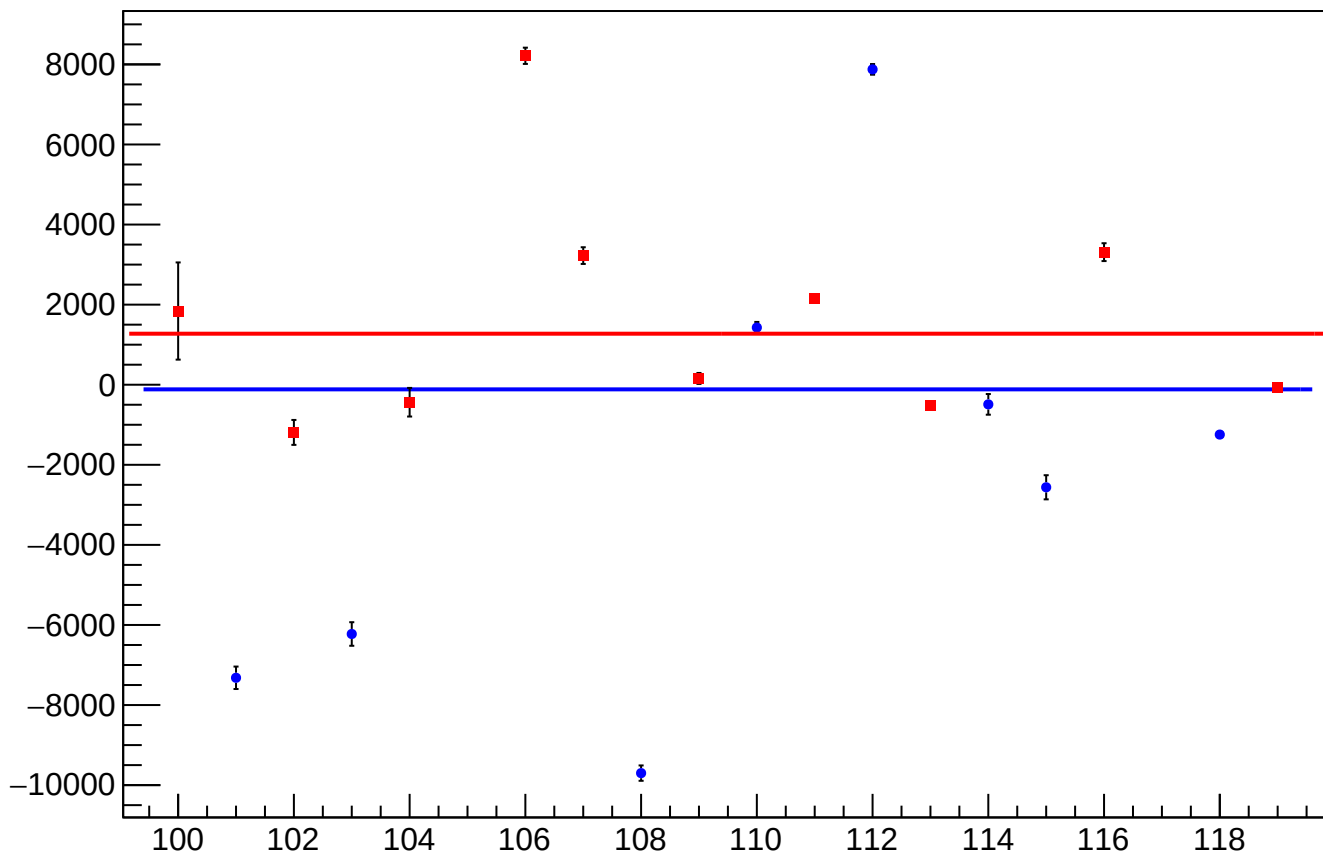
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 106.023 $\pm$ 0.030  $\chi^2$ /NDF: 1693690.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm2i02WS\_mean vs Slug



Right In: -115.852 $\pm$ 62.733  $\chi^2$ /NDF: 7494.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1274.203 $\pm$ 53.614  $\chi^2$ /NDF: 1895.1/9

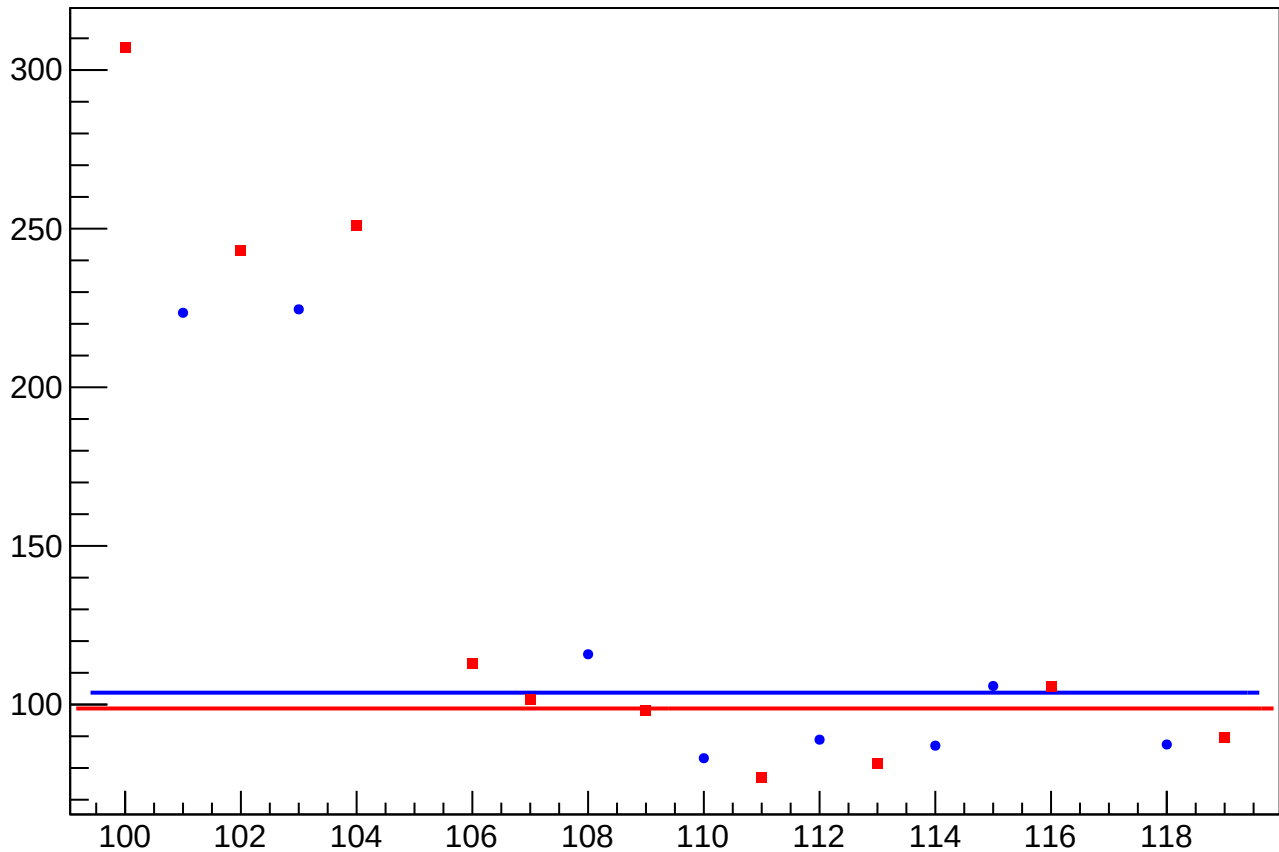
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 687.464 $\pm$ 40.757  $\chi^2$ /NDF: 9673.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm2i02WS\_rms vs Slug



Right In: 103.745+/-0.044  $\chi^2/\text{NDF}$ : 823587.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 98.757+/-0.038  $\chi^2/\text{NDF}$ : 983104.6/9

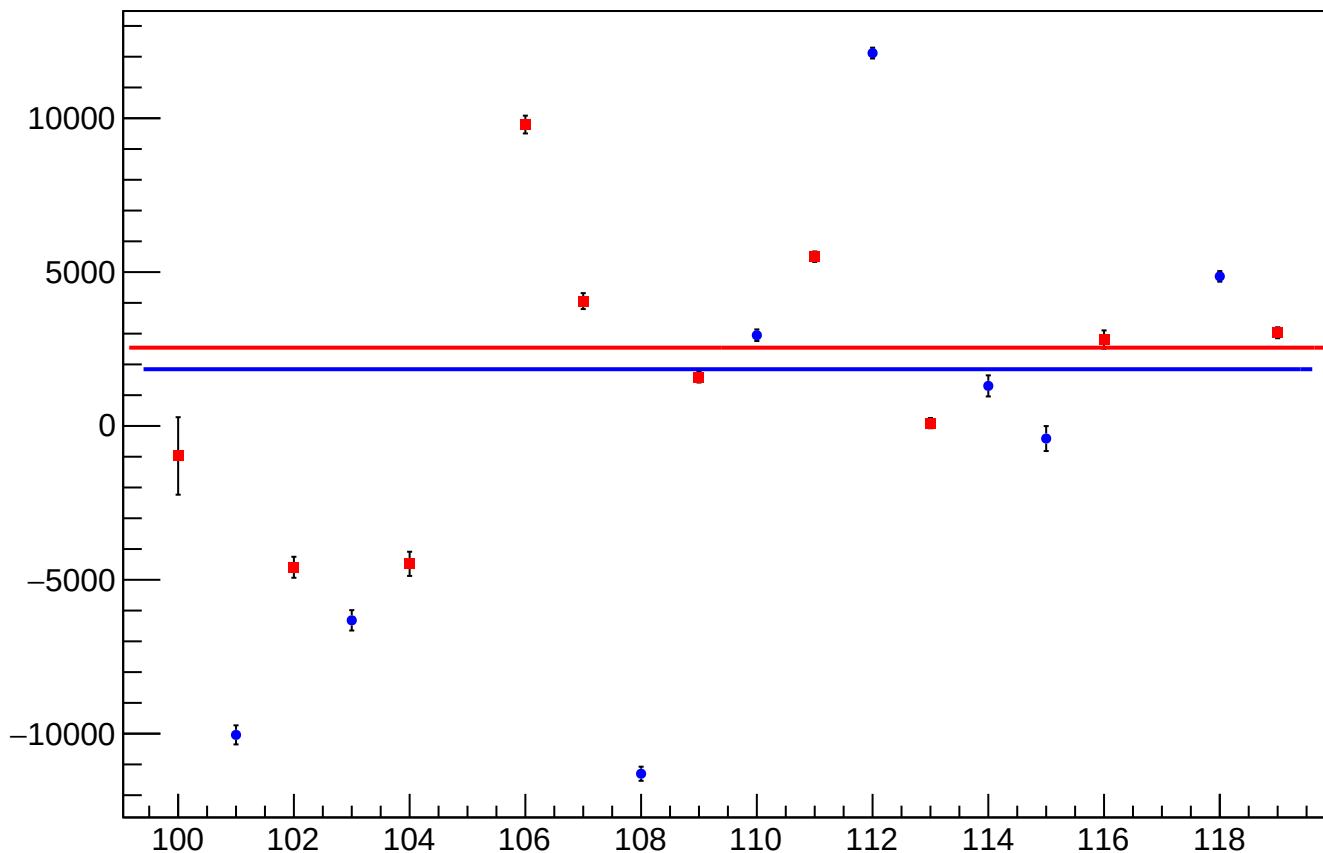
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 100.862+/-0.029  $\chi^2/\text{NDF}$ : 1814000.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01WS\_mean vs Slug



Right In: 1843.812 $\pm$ 82.275  $\chi^2$ /NDF: 9171.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2544.585 $\pm$ 72.414  $\chi^2$ /NDF: 1989.5/9

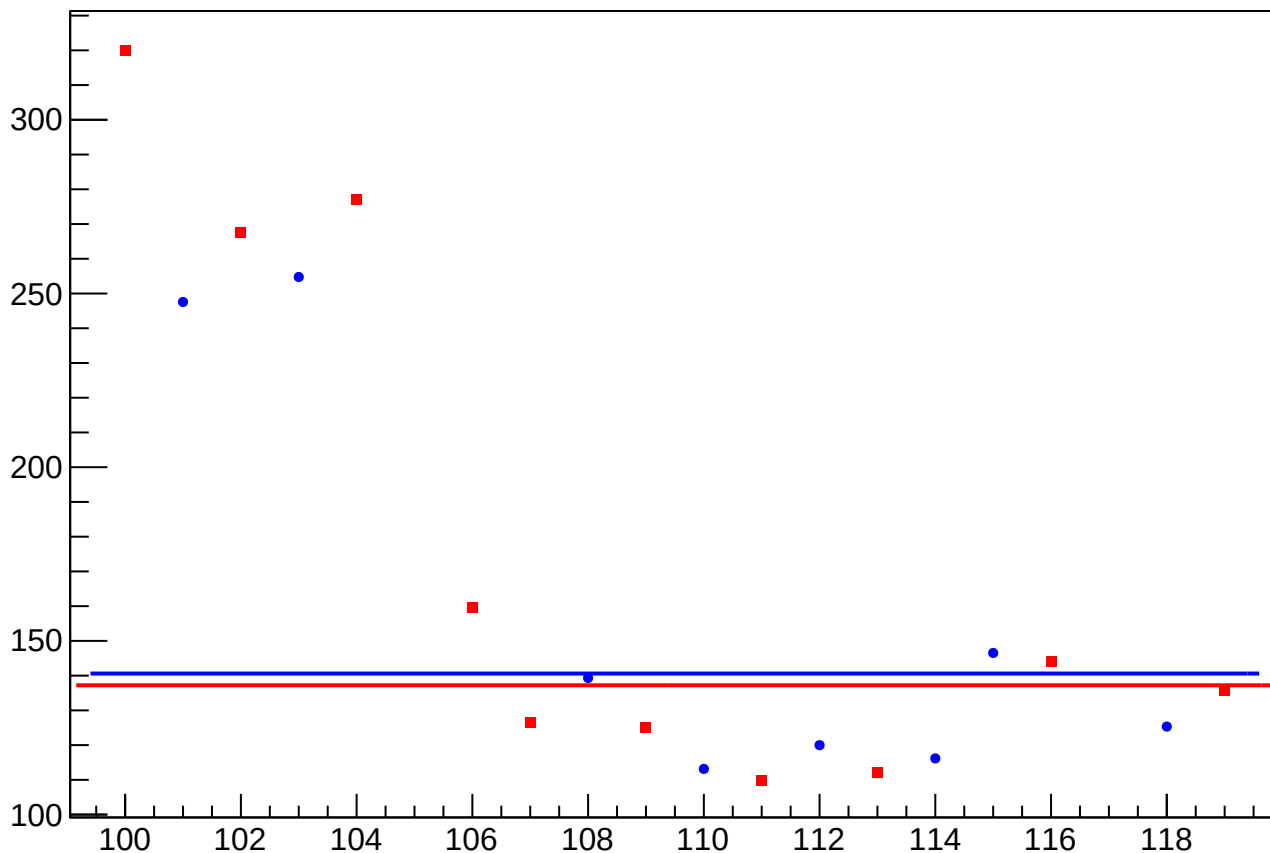
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2238.690 $\pm$ 54.358  $\chi^2$ /NDF: 11202.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i01WS\_rms vs Slug



Right In: 140.604 $\pm$ 0.058  $\chi^2$ /NDF: 572915.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 137.222 $\pm$ 0.051  $\chi^2$ /NDF: 710749.3/9

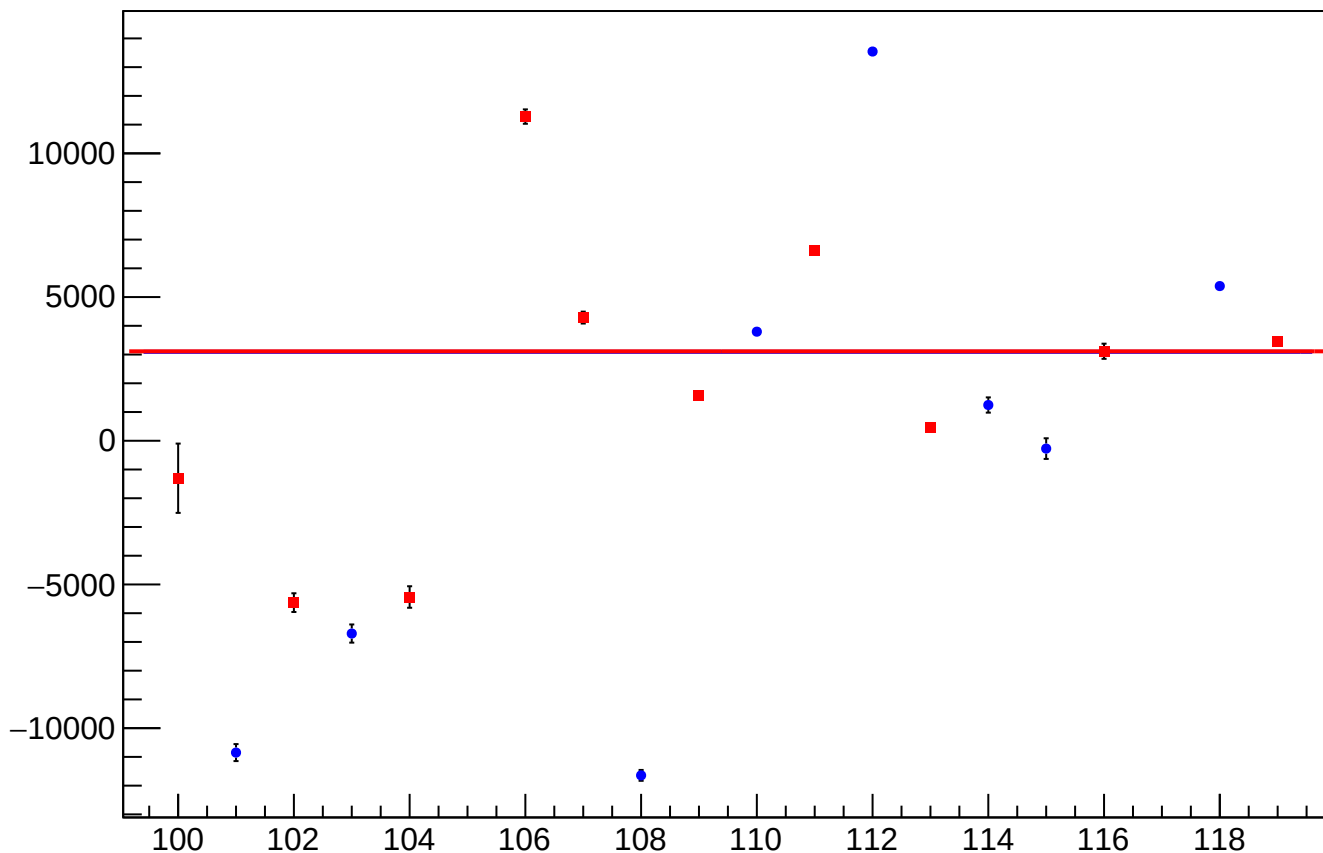
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 138.699 $\pm$ 0.038  $\chi^2$ /NDF: 1285568.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i01aWS\_mean vs Slug



Right In: 3094.543+/-66.725  $\chi^2/\text{NDF}$ : 15741.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 3112.289+/-57.966  $\chi^2/\text{NDF}$ : 3748.7/9

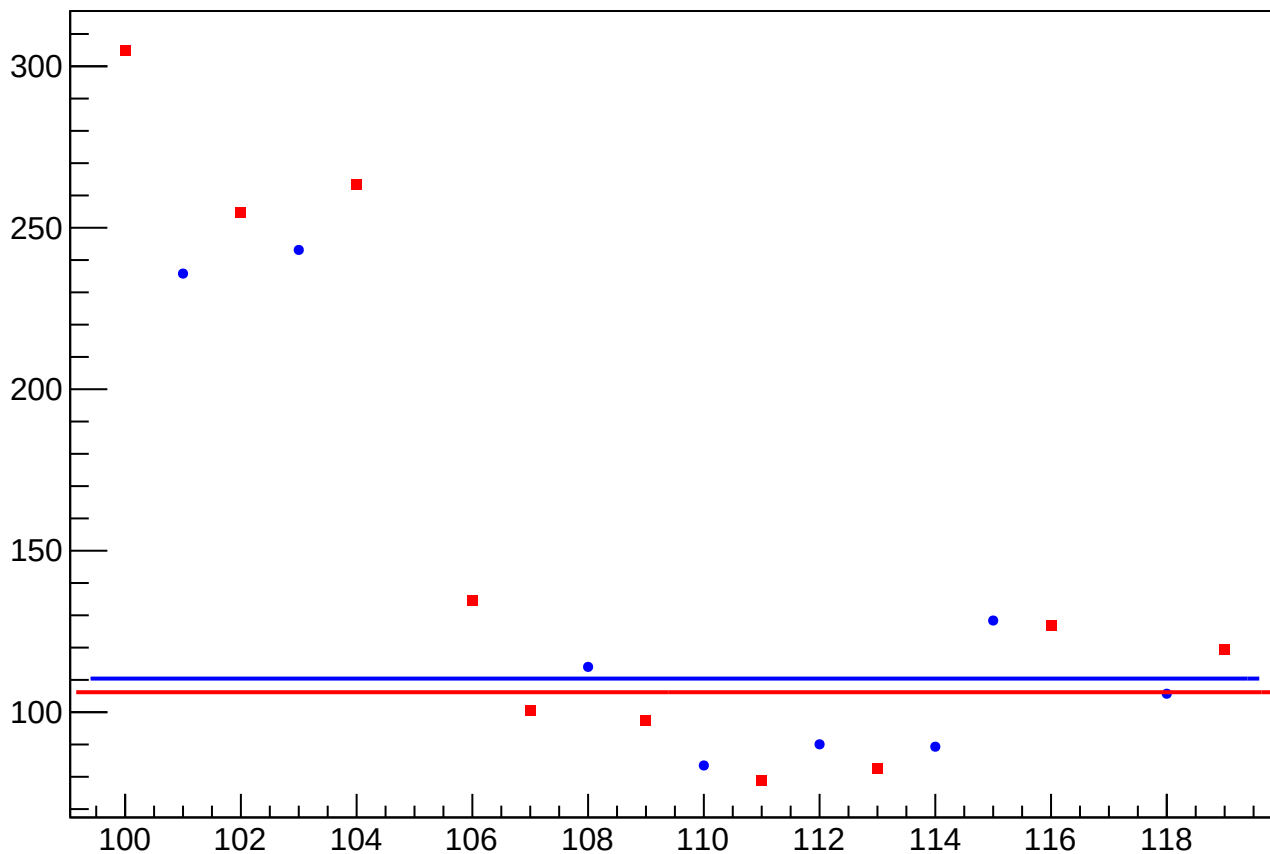
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3104.657+/-43.759  $\chi^2/\text{NDF}$ : 19490.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01aWS\_rms vs Slug



Right In: 110.410 $\pm$ 0.047  $\chi^2$ /NDF: 851968.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 106.186 $\pm$ 0.041  $\chi^2$ /NDF: 1057128.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

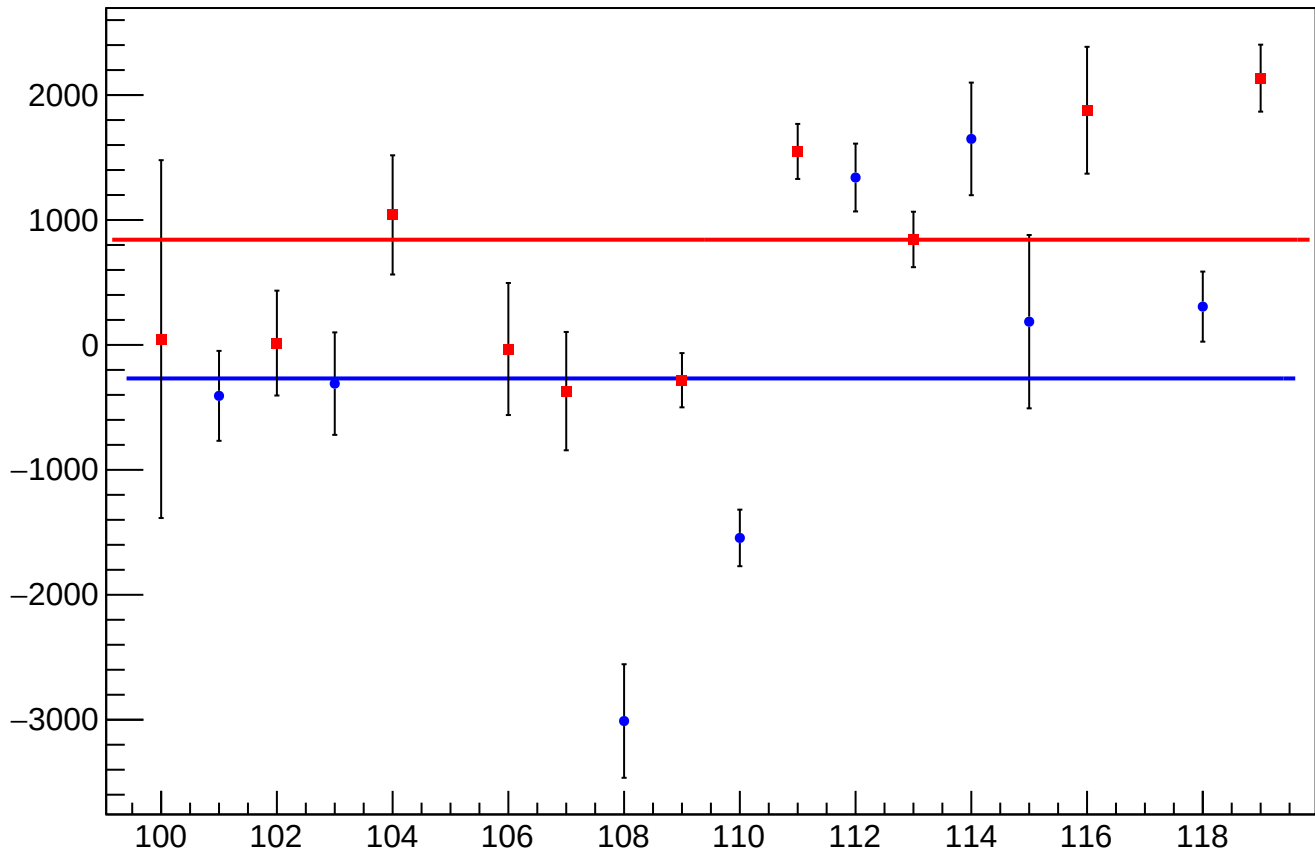
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 108.003 $\pm$ 0.031  $\chi^2$ /NDF: 1913663.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bpm0l01WS\_mean vs Slug



Right In: -268.305+/-118.417  $\chi^2/\text{NDF}$ : 126.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 842.121+/-100.741  $\chi^2/\text{NDF}$ : 78.2/9

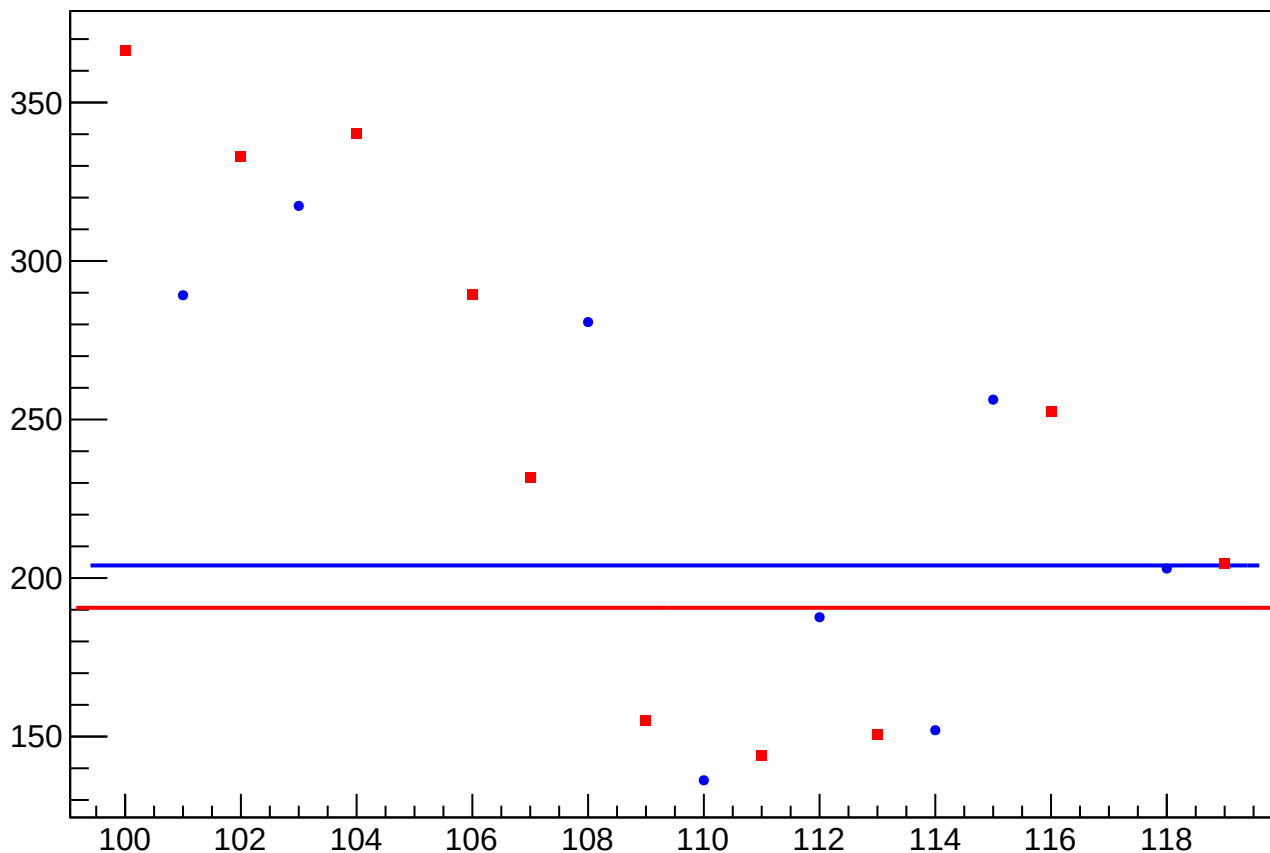
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 375.888+/-76.731  $\chi^2/\text{NDF}$ : 255.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l01WS\_rms vs Slug



Right In: 203.973+/-0.084  $\chi^2/\text{NDF}$ : 546693.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 190.617+/-0.071  $\chi^2/\text{NDF}$ : 784553.6/9

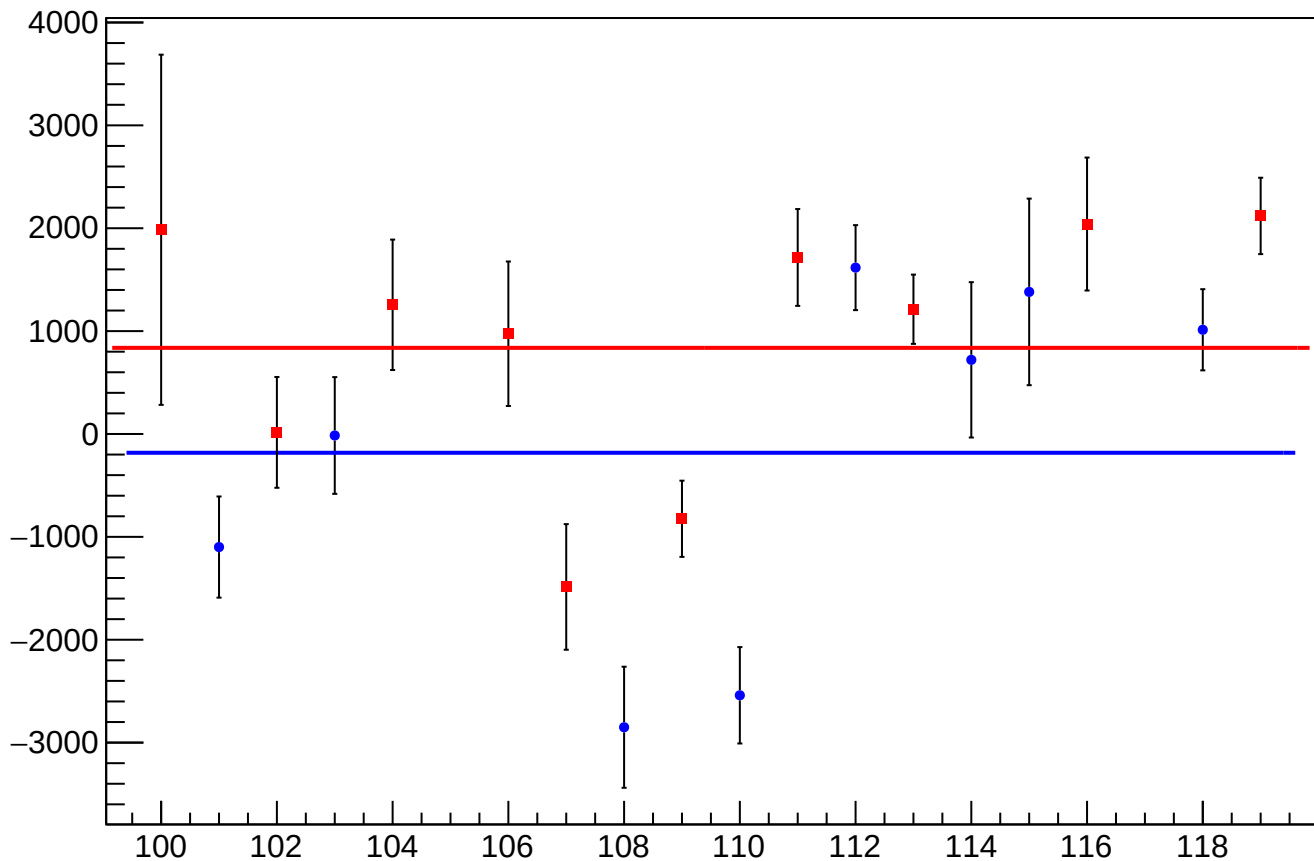
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 196.225+/-0.054  $\chi^2/\text{NDF}$ : 1346006.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l02WS\_mean vs Slug



Right In: -182.581 $\pm$ 182.749  $\chi^2$ /NDF: 82.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 837.232 $\pm$ 155.646  $\chi^2$ /NDF: 58.0/9

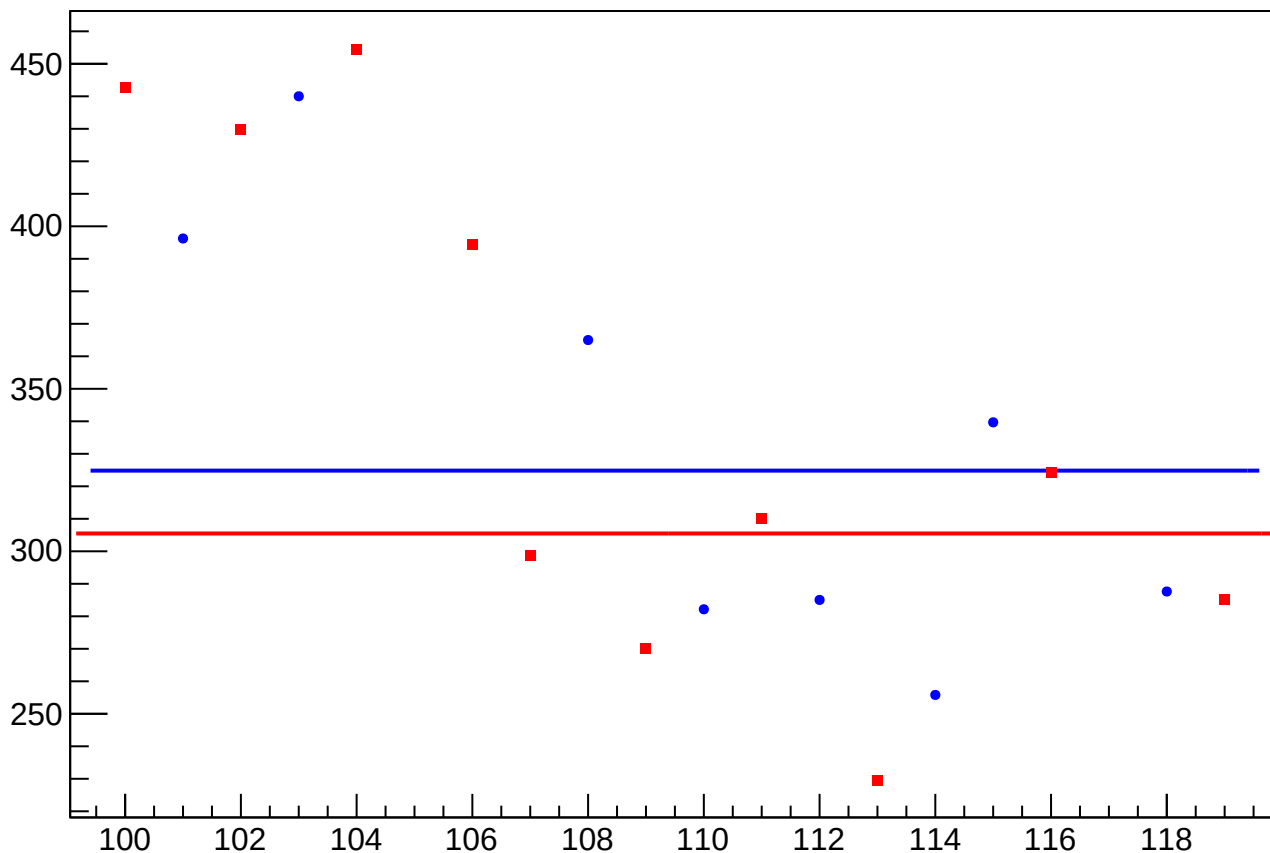
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 408.483 $\pm$ 118.494  $\chi^2$ /NDF: 158.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l02WS\_rms vs Slug



Right In: 324.823+/-0.129  $\chi^2/\text{NDF}$ : 204154.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 305.482+/-0.110  $\chi^2/\text{NDF}$ : 390169.6/9

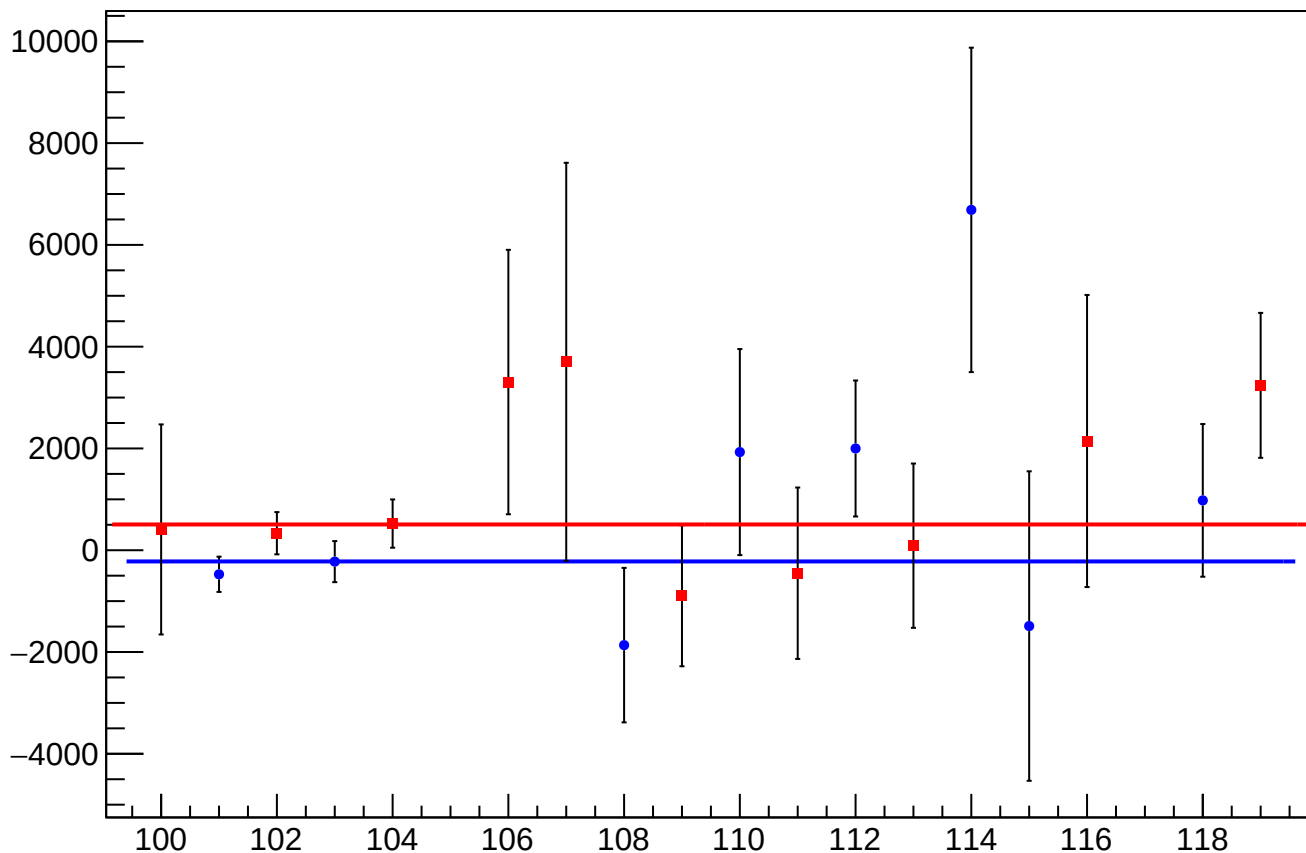
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 313.613+/-0.084  $\chi^2/\text{NDF}$ : 607308.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l03WS\_mean vs Slug



Right In: -220.242 $\pm$ 247.159  $\chi^2$ /NDF: 11.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 506.280 $\pm$ 282.045  $\chi^2$ /NDF: 7.4/9

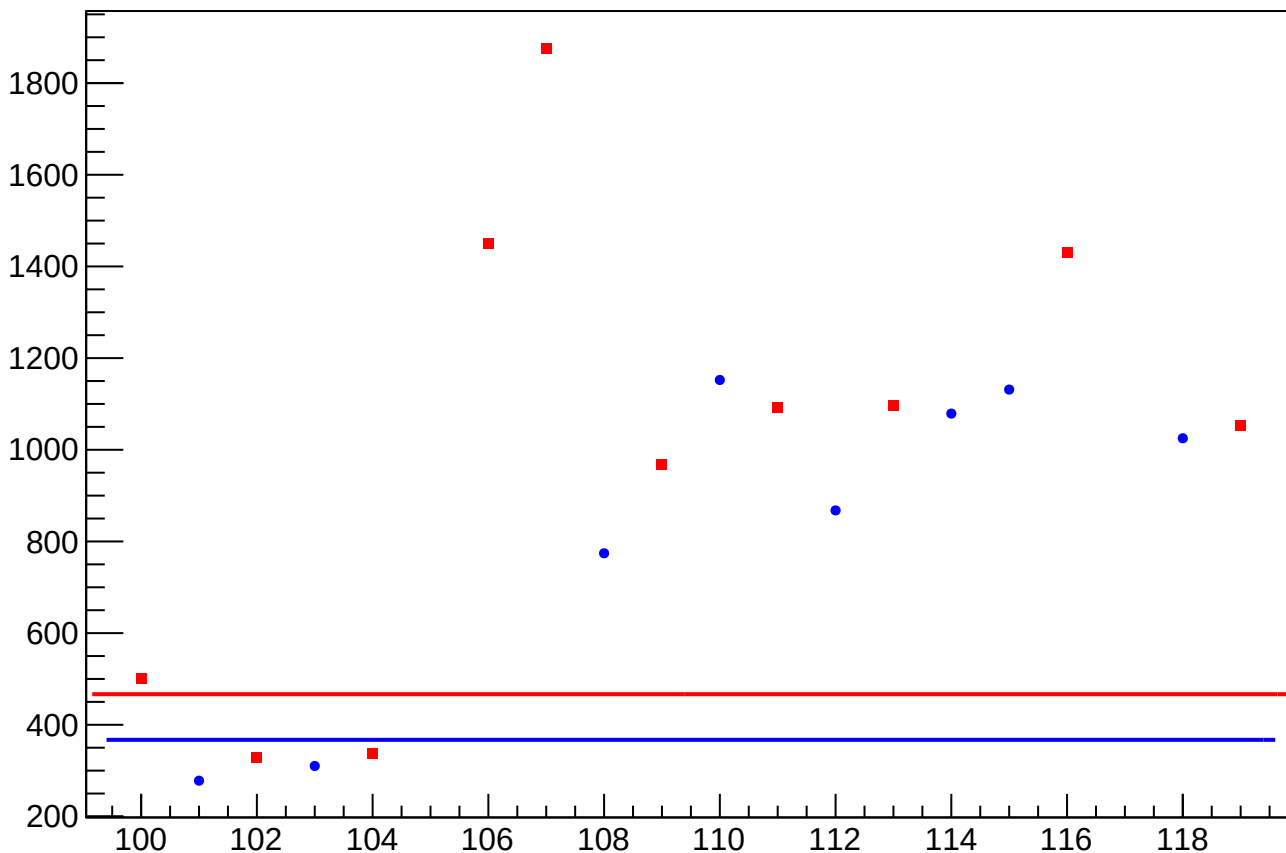
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 95.333 $\pm$ 185.885  $\chi^2$ /NDF: 22.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l03WS\_rms vs Slug



Right In: 367.196+/-0.175  $\chi^2/\text{NDF}$ : 1508478.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 466.758+/-0.199  $\chi^2/\text{NDF}$ : 2318956.1/9

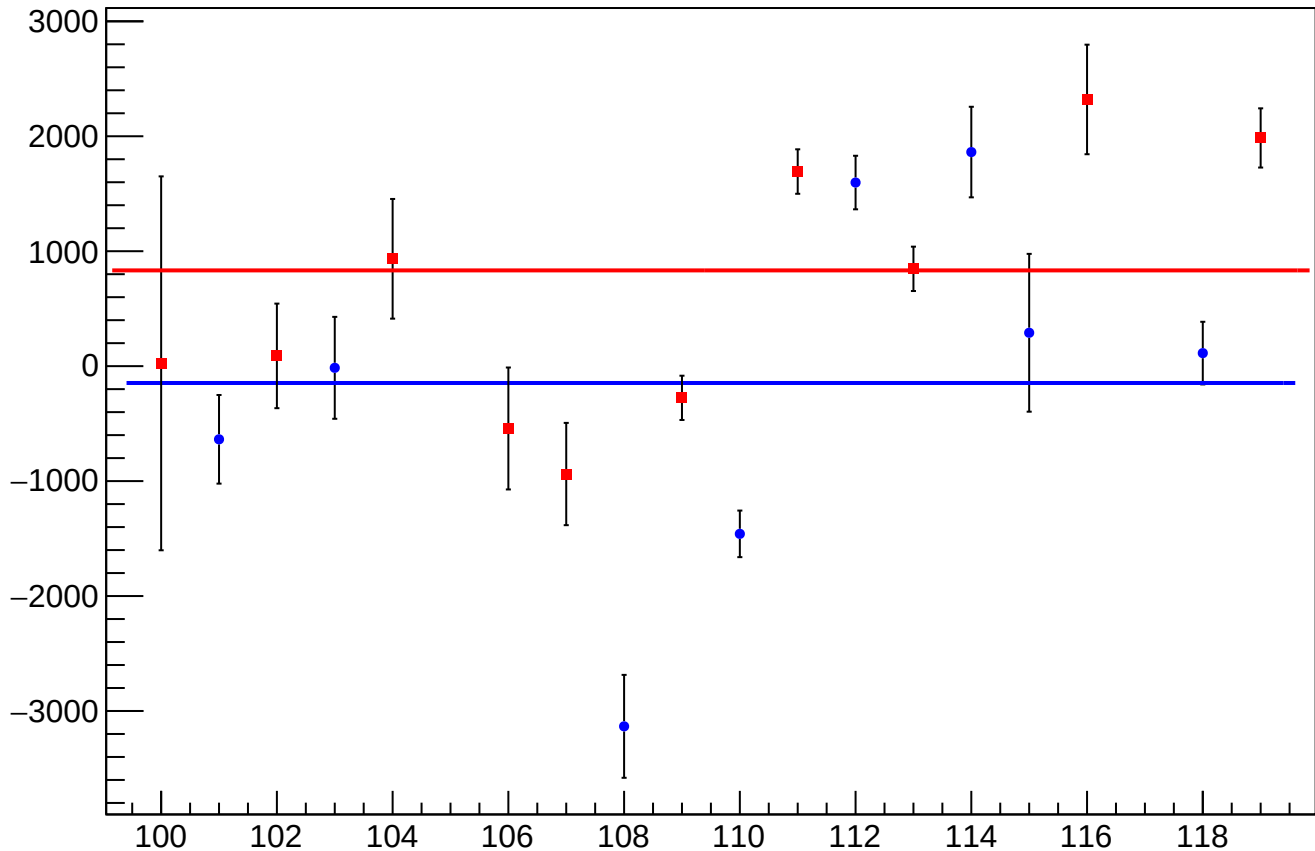
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 410.442+/-0.131  $\chi^2/\text{NDF}$ : 3968401.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l04WS\_mean vs Slug



Right In: -146.457+/-110.683  $\chi^2/\text{NDF}$ : 171.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 832.998+/-92.245  $\chi^2/\text{NDF}$ : 108.2/9

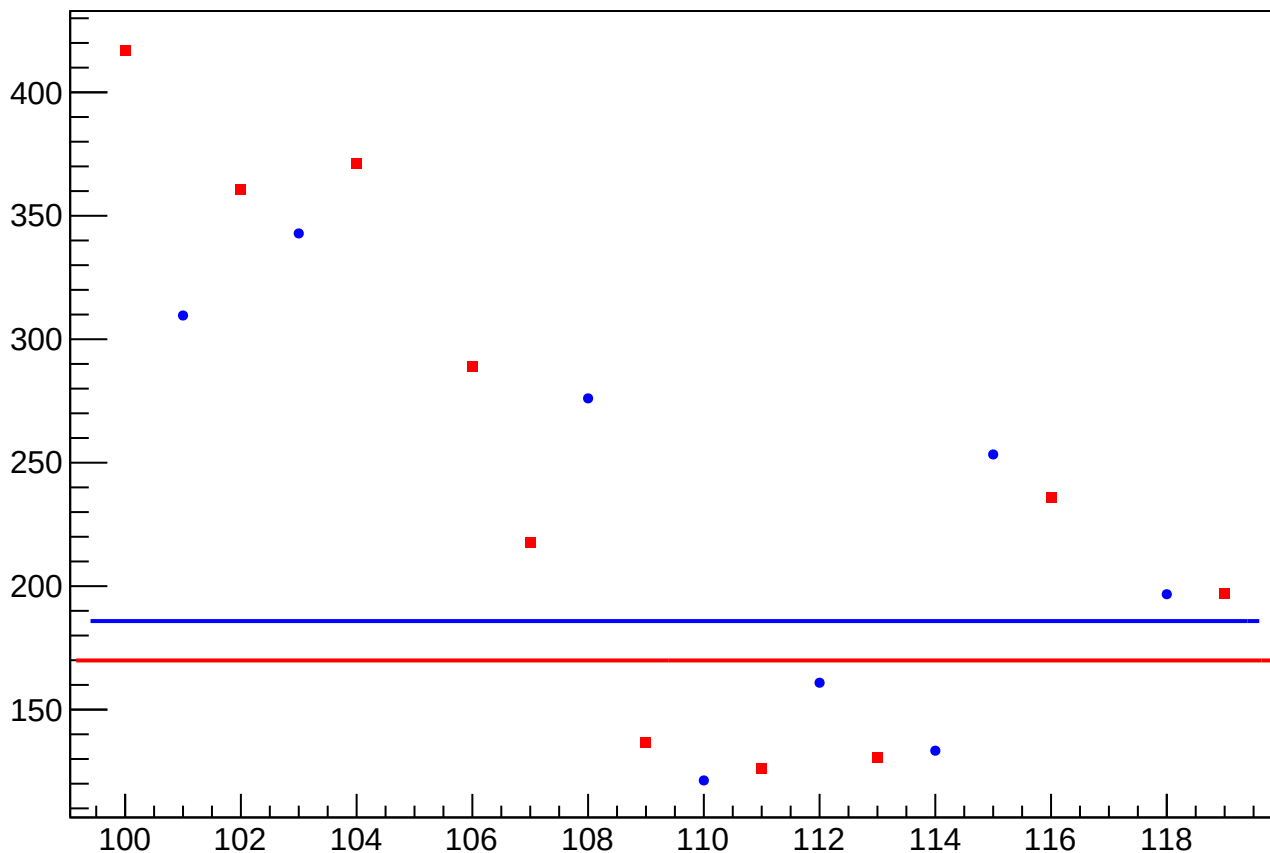
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 431.533+/-70.862  $\chi^2/\text{NDF}$ : 326.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l04WS\_rms vs Slug



Right In: 185.858+/-0.078  $\chi^2/\text{NDF}$ : 822078.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 169.908+/-0.065  $\chi^2/\text{NDF}$ : 1127018.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

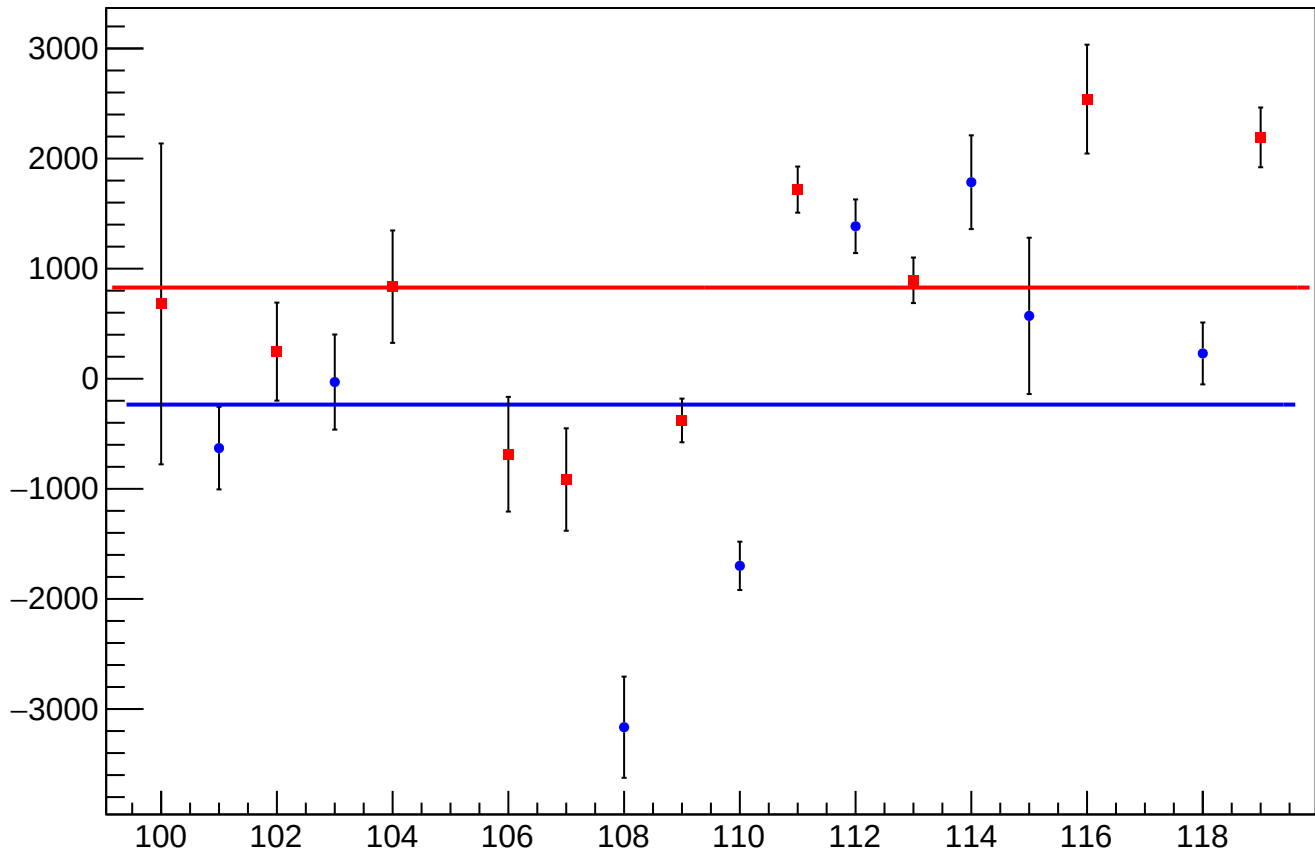
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 176.446+/-0.050  $\chi^2/\text{NDF}$ : 1973606.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0l05WS\_mean vs Slug



Right In: -234.815+/-115.527  $\chi^2/\text{NDF}$ : 157.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 828.401+/-96.718  $\chi^2/\text{NDF}$ : 116.6/9

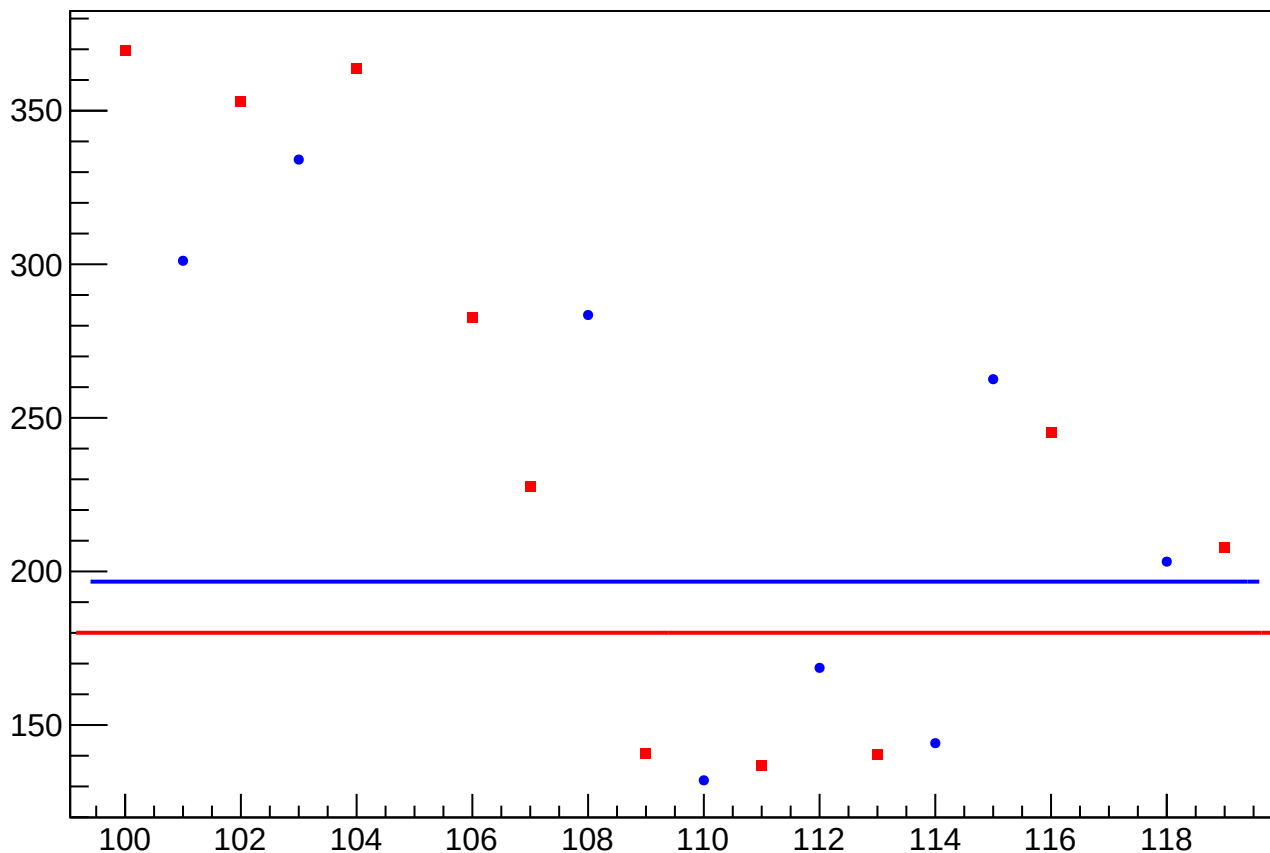
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 390.280+/-74.160  $\chi^2/\text{NDF}$ : 323.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l05WS\_rms vs Slug



Right In: 196.680+/-0.082  $\chi^2/\text{NDF}$ : 677416.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 180.038+/-0.068  $\chi^2/\text{NDF}$ : 985650.9/9

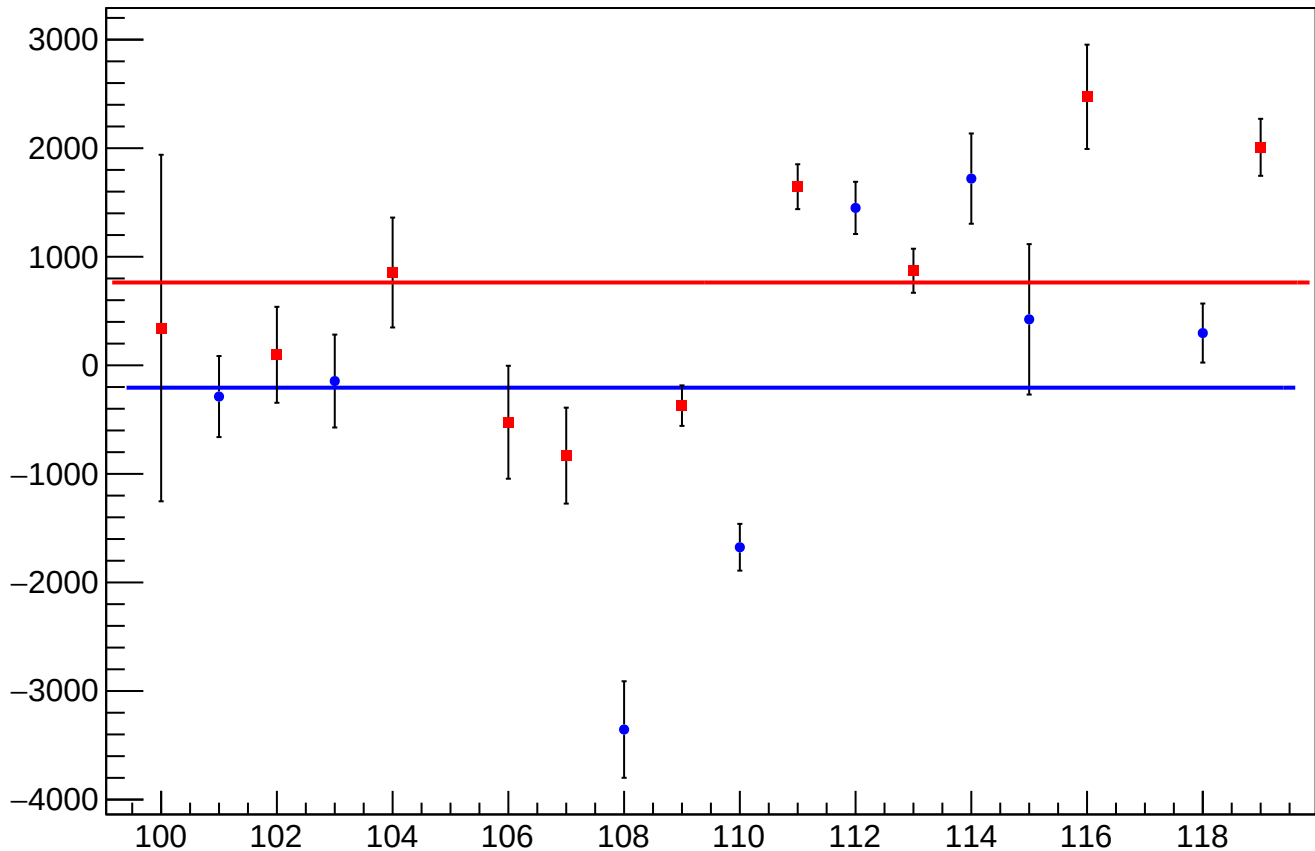
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 186.896+/-0.052  $\chi^2/\text{NDF}$ : 1687466.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l06WS\_mean vs Slug



Right In: -205.904+/-113.273  $\chi^2/\text{NDF}$ : 169.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 762.966+/-93.854  $\chi^2/\text{NDF}$ : 112.2/9

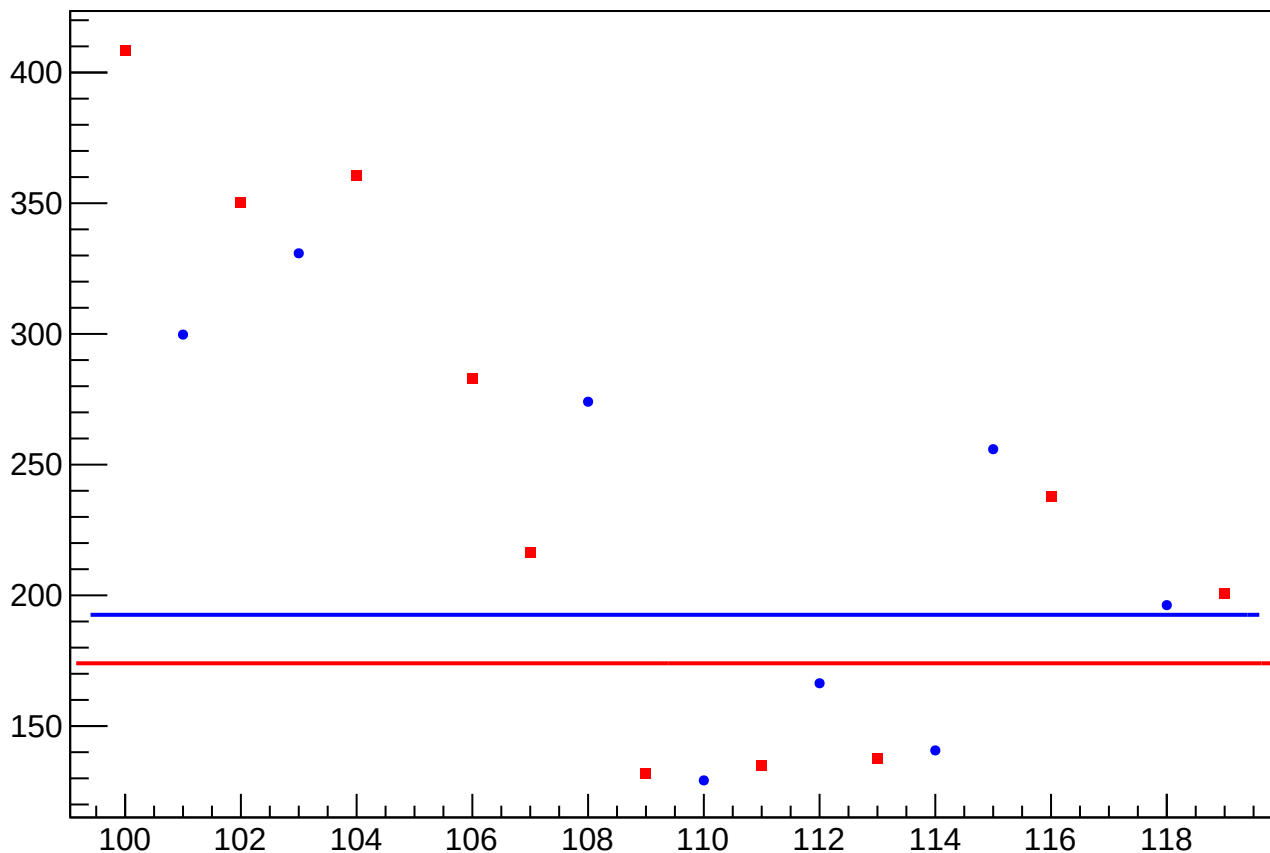
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 368.574+/-72.270  $\chi^2/\text{NDF}$ : 325.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l06WS\_rms vs Slug



Right In:  $192.560 \pm 0.080$   $\chi^2/\text{NDF}$ : 685995.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $174.011 \pm 0.066$   $\chi^2/\text{NDF}$ : 1033082.6/9

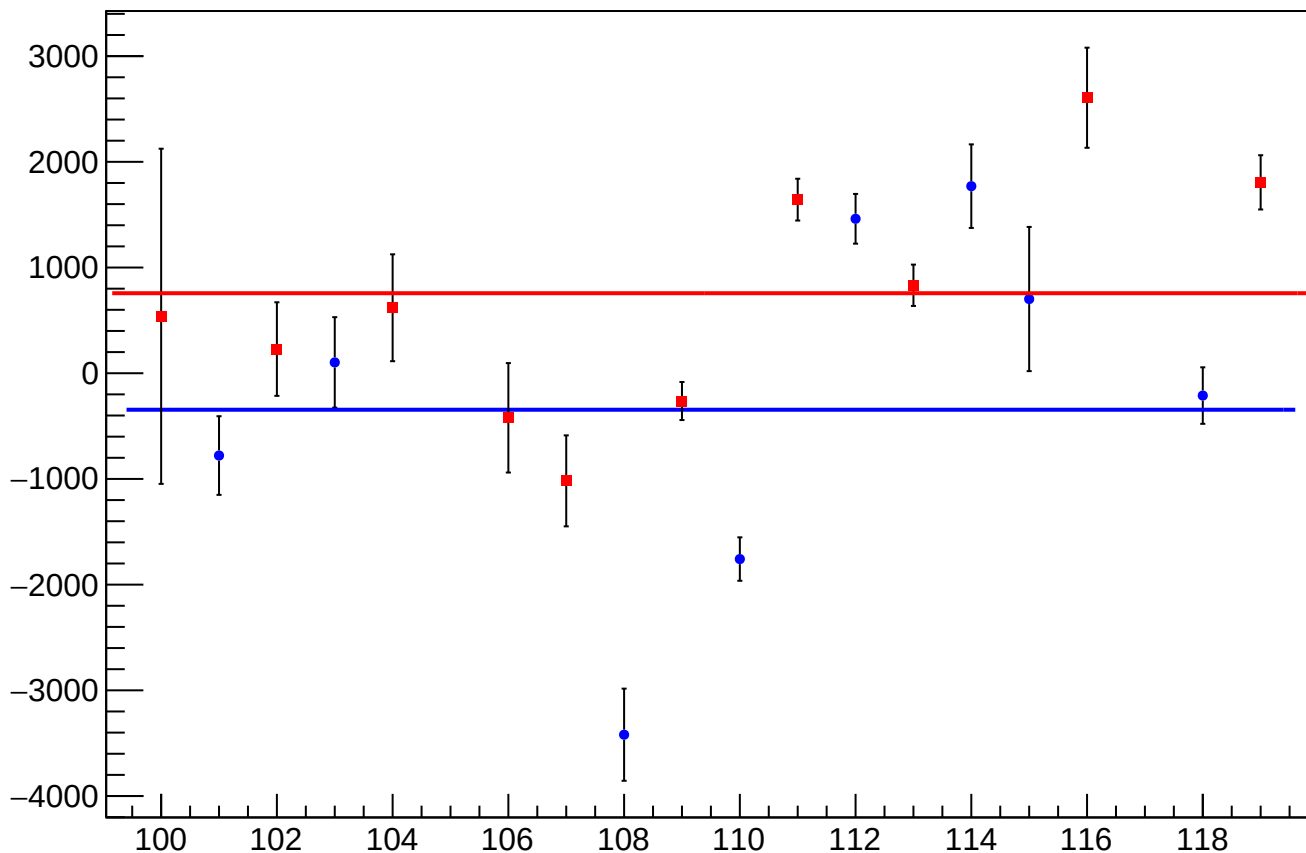
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $181.562 \pm 0.051$   $\chi^2/\text{NDF}$ : 1750878.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l07WS\_mean vs Slug



Right In:  $-345.287 \pm 110.277$   $\chi^2/\text{NDF}$ : 189.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $757.009 \pm 90.999$   $\chi^2/\text{NDF}$ : 107.9/9

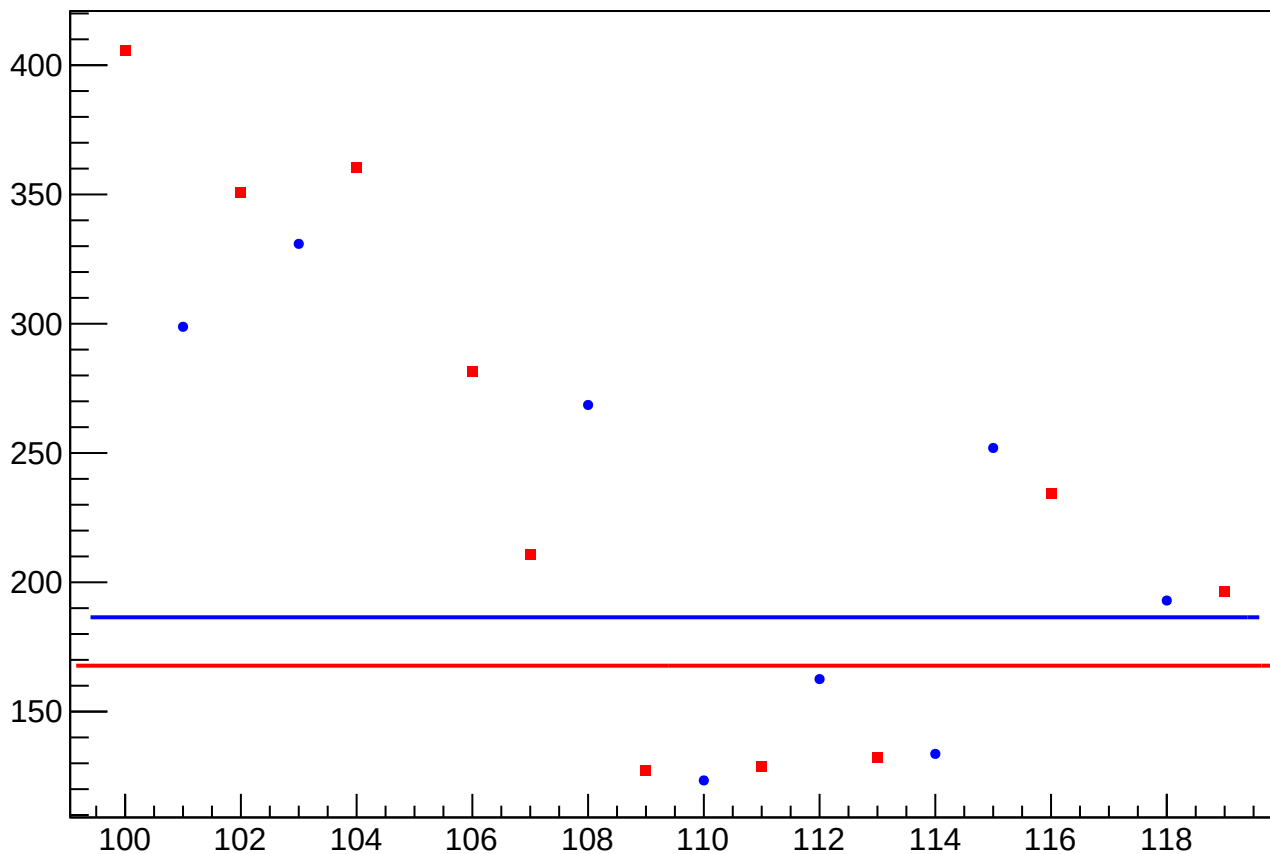
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $310.480 \pm 70.188$   $\chi^2/\text{NDF}$ : 357.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l07WS\_rms vs Slug



Right In: 186.466+/-0.078  $\chi^2/\text{NDF}$ : 745439.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 167.755+/-0.064  $\chi^2/\text{NDF}$ : 1103148.8/9

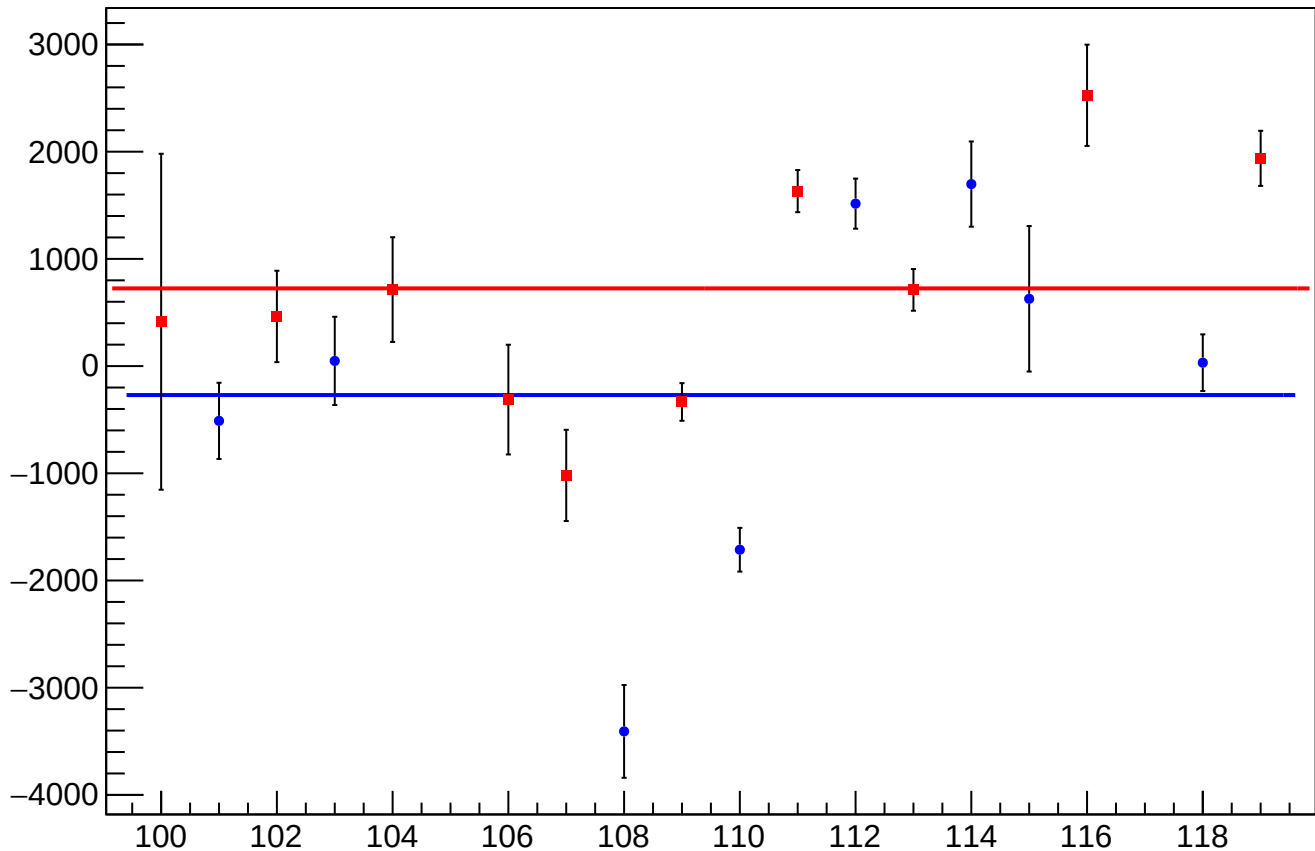
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 175.335+/-0.050  $\chi^2/\text{NDF}$ : 1882842.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l08WS\_mean vs Slug



Right In: -270.133+/-108.919  $\chi^2/\text{NDF}$ : 189.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 724.688+/-89.869  $\chi^2/\text{NDF}$ : 115.9/9

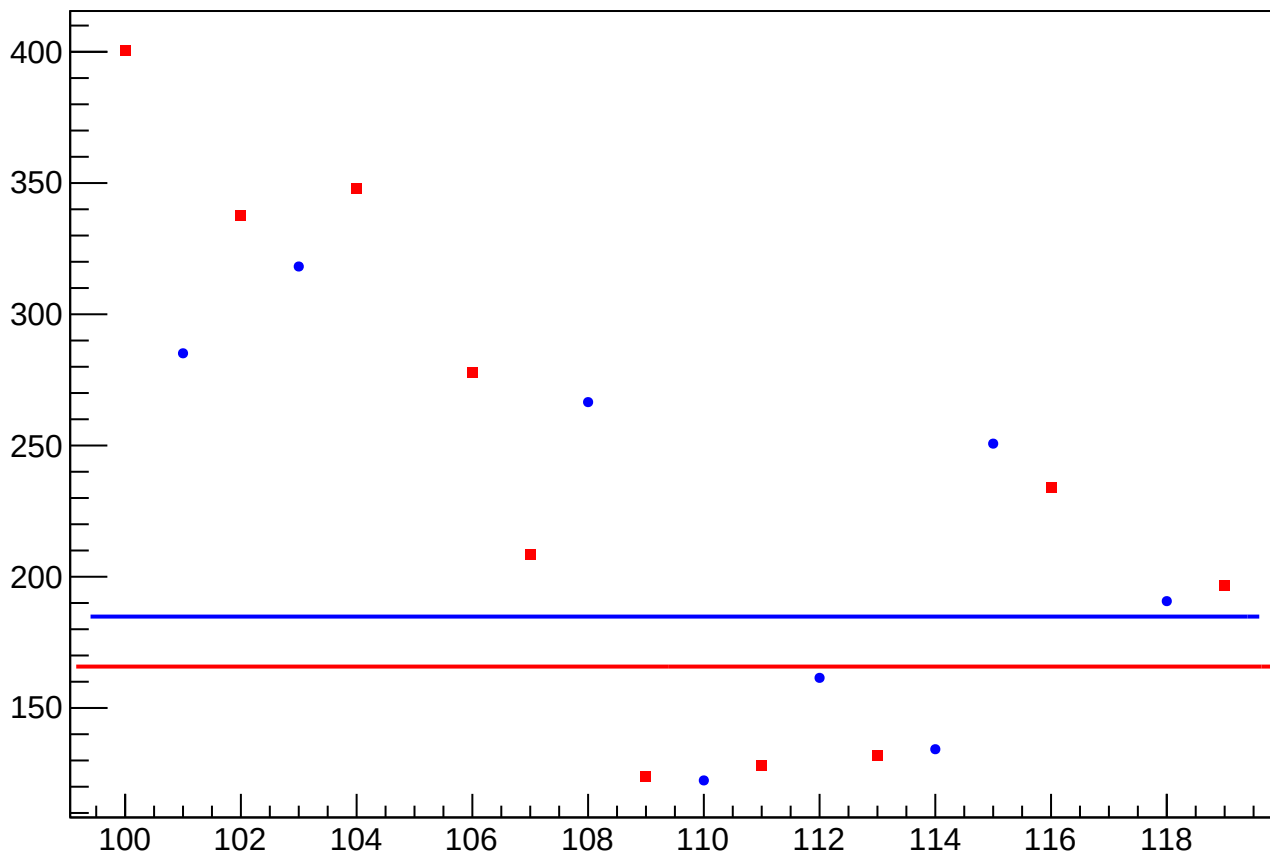
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 321.745+/-69.319  $\chi^2/\text{NDF}$ : 355.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l08WS\_rms vs Slug



Right In: 184.824+/-0.077  $\chi^2/\text{NDF}$ : 699865.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 165.776+/-0.064  $\chi^2/\text{NDF}$ : 1083649.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

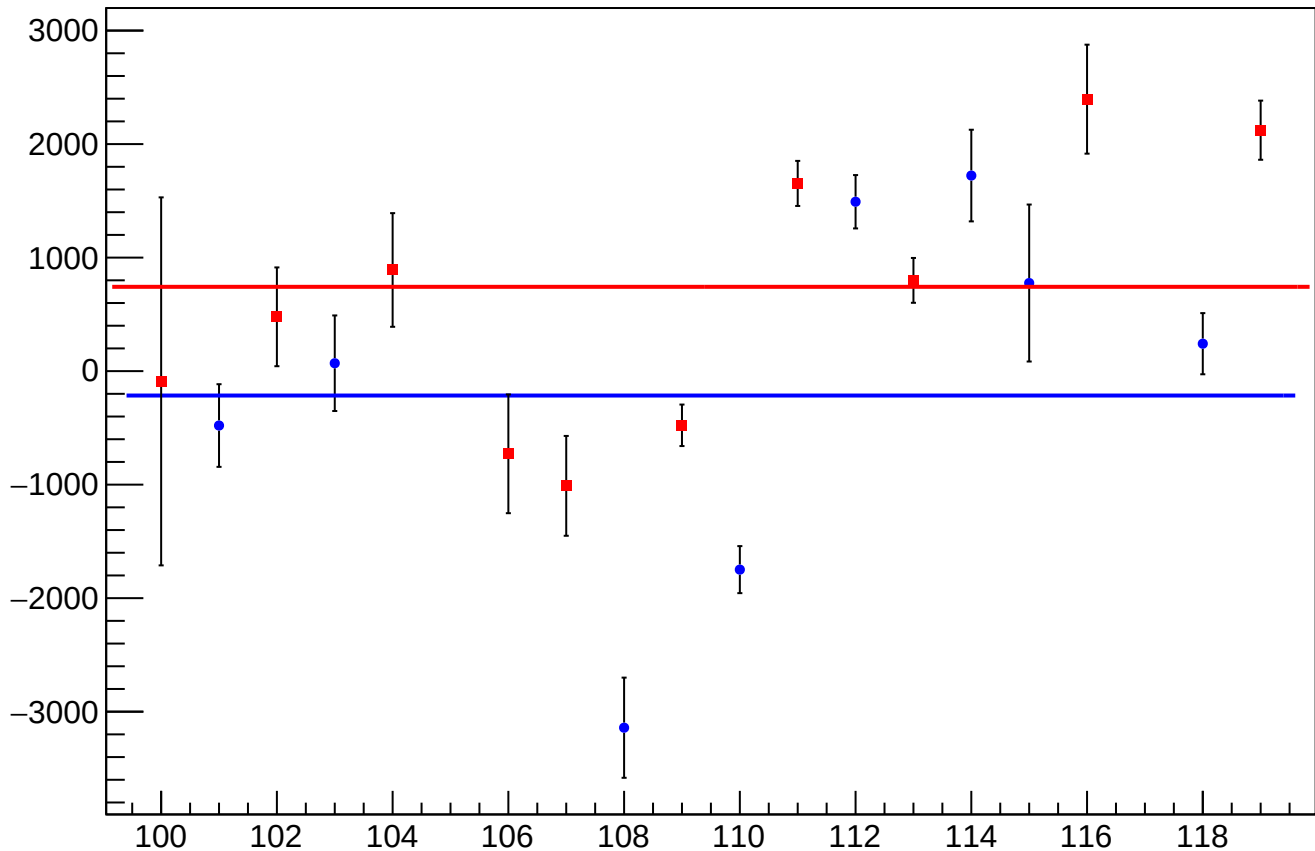
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 173.492+/-0.049  $\chi^2/\text{NDF}$ : 1819906.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0l09WS\_mean vs Slug



Right In: -214.992 $\pm$ 110.613  $\chi^2$ /NDF: 180.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 742.661 $\pm$ 91.867  $\chi^2$ /NDF: 130.1/9

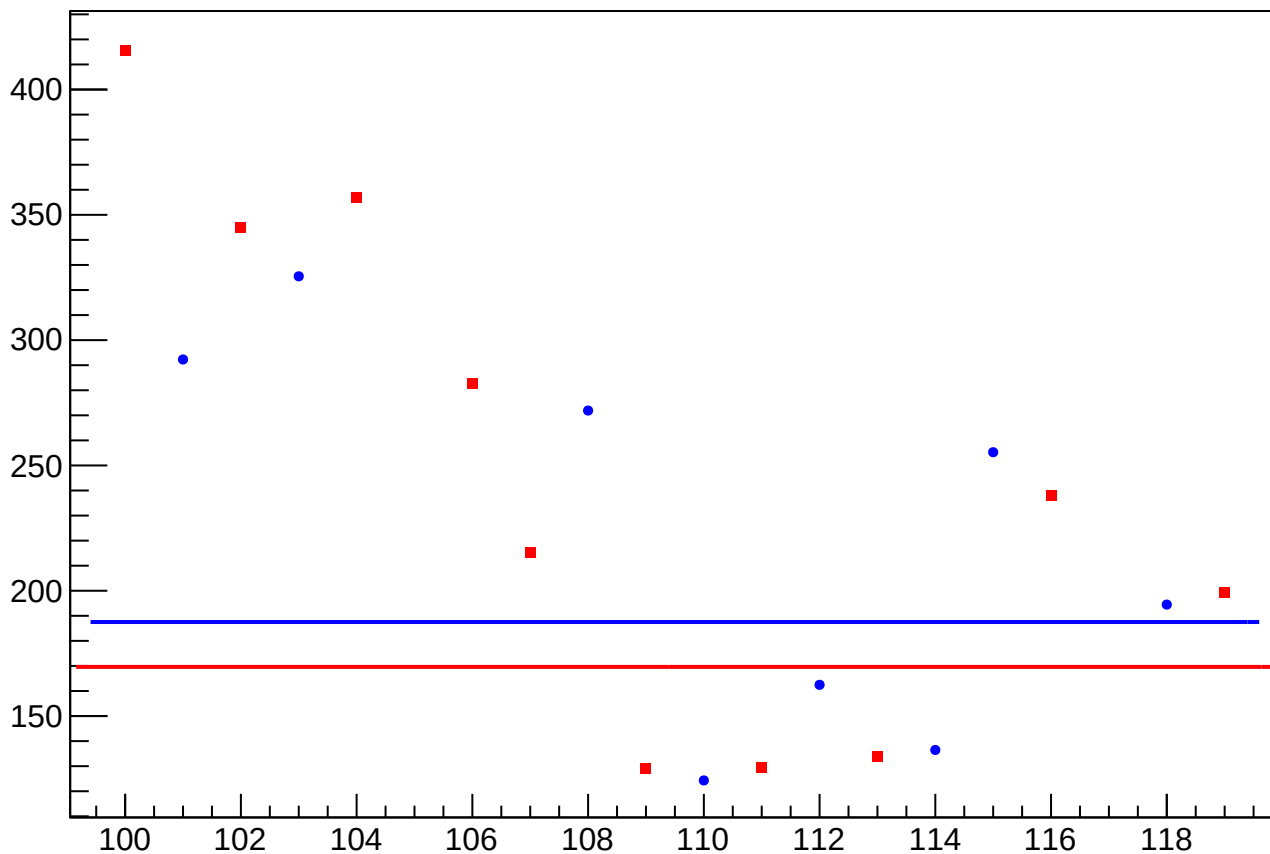
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 351.741 $\pm$ 70.672  $\chi^2$ /NDF: 355.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l09WS\_rms vs Slug



Right In: 187.523+/-0.078  $\chi^2/\text{NDF}$ : 714985.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 169.612+/-0.065  $\chi^2/\text{NDF}$ : 1076209.0/9

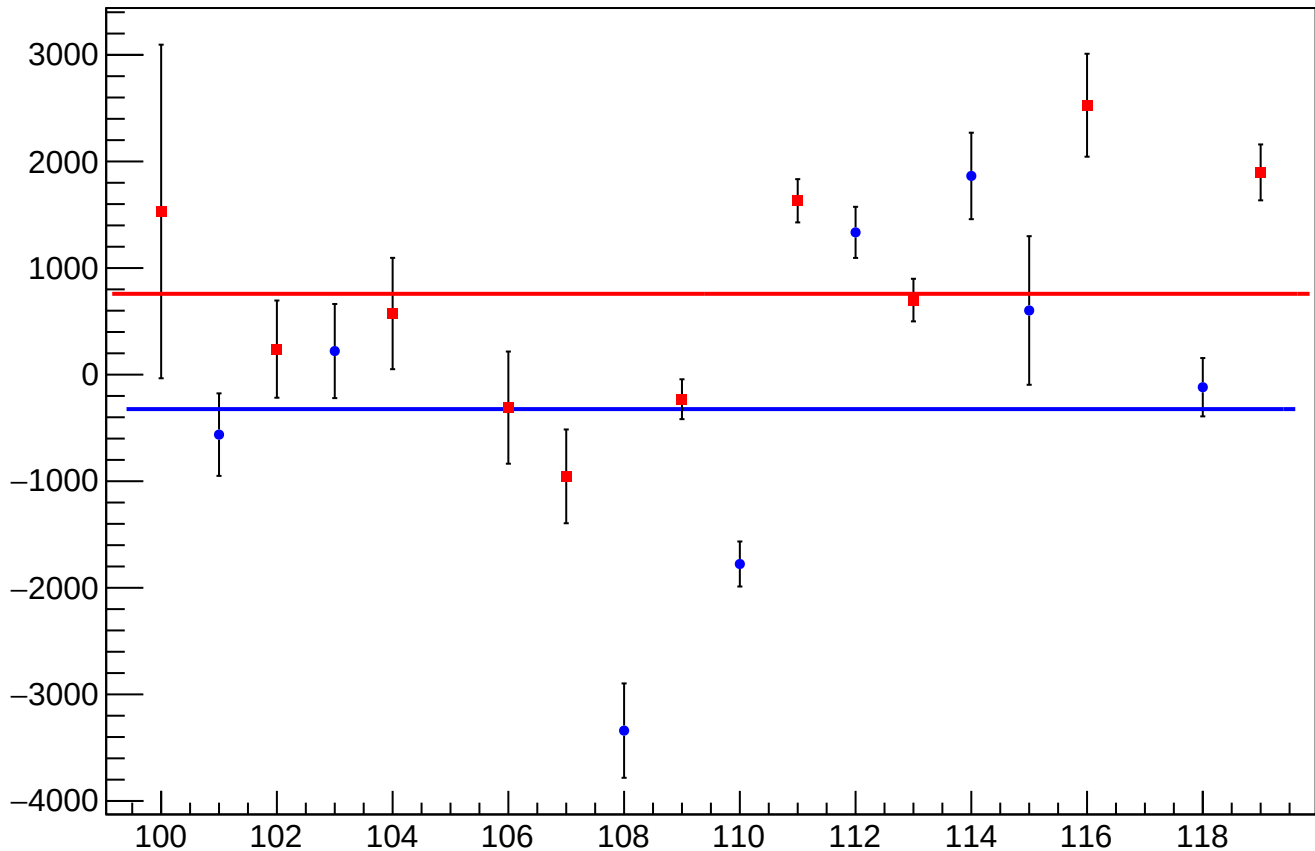
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 176.923+/-0.050  $\chi^2/\text{NDF}$ : 1822227.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l10WS\_mean vs Slug



Right In:  $-323.346 \pm 113.083$   $\chi^2/\text{NDF}$ : 174.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $758.268 \pm 93.488$   $\chi^2/\text{NDF}$ : 99.8/9

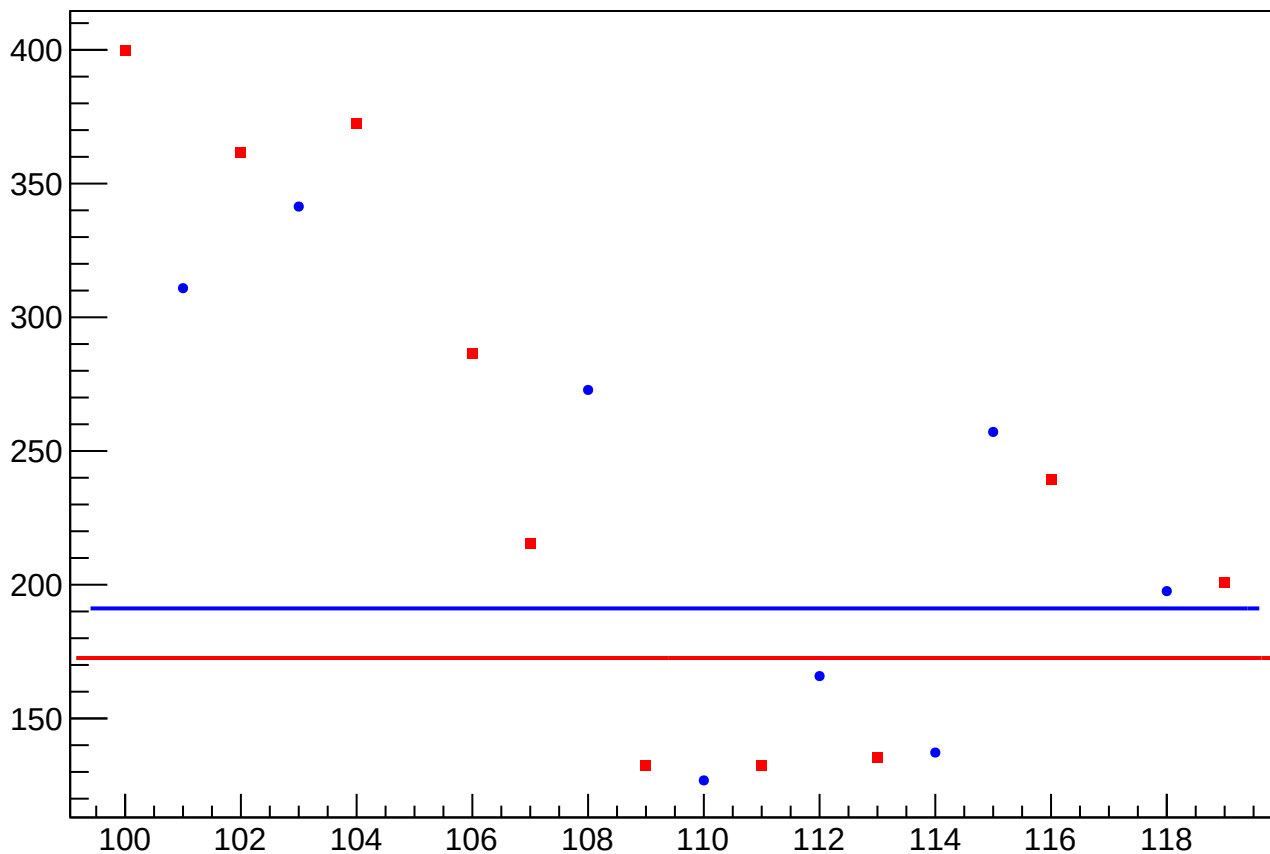
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $319.147 \pm 72.053$   $\chi^2/\text{NDF}$ : 329.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l10WS\_rms vs Slug



Right In: 191.142 $\pm$ 0.080  $\chi^2$ /NDF: 753182.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 172.597 $\pm$ 0.066  $\chi^2$ /NDF: 1092886.4/9

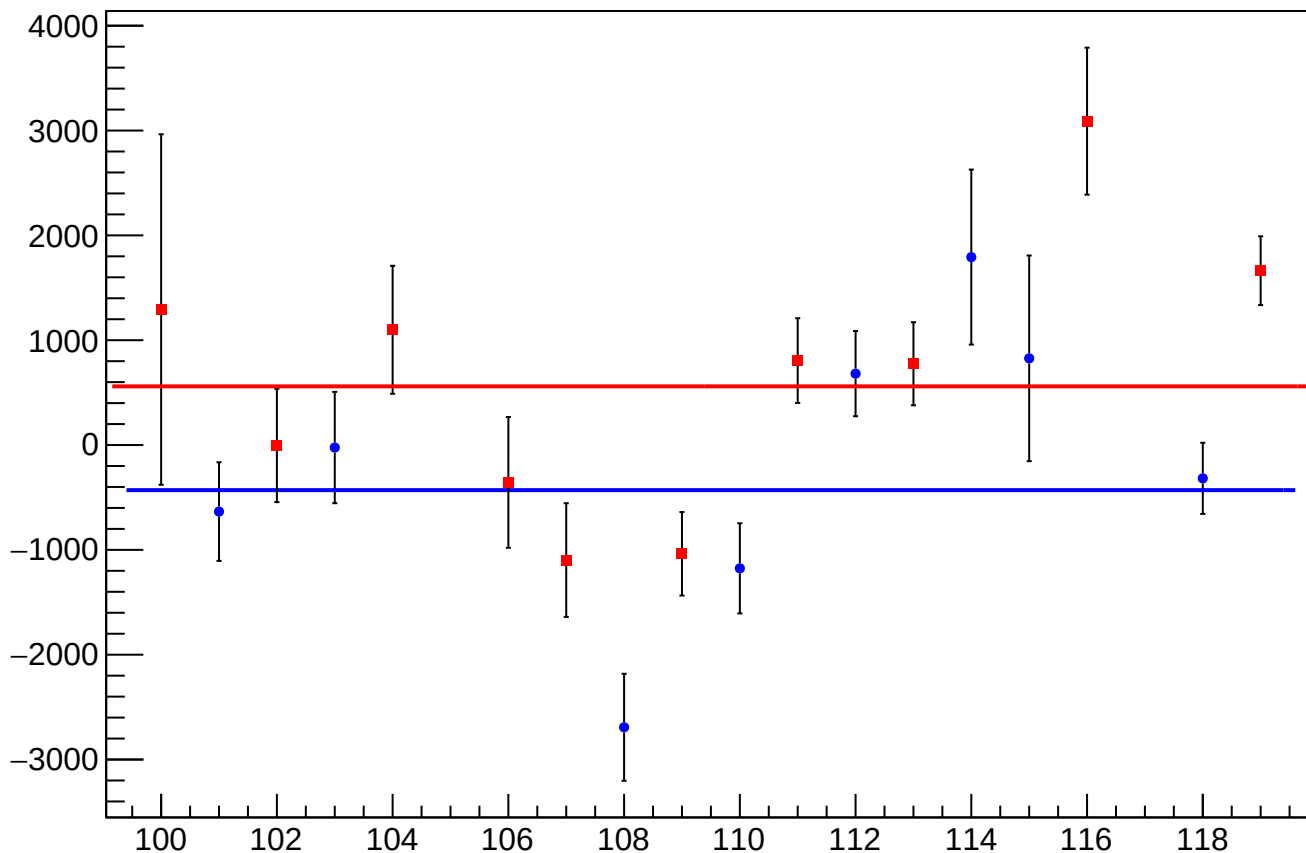
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 180.126 $\pm$ 0.051  $\chi^2$ /NDF: 1878018.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0r03WS\_mean vs Slug



Right In: -430.246 $\pm$ 170.186  $\chi^2$ /NDF: 39.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 559.719 $\pm$ 153.282  $\chi^2$ /NDF: 54.6/9

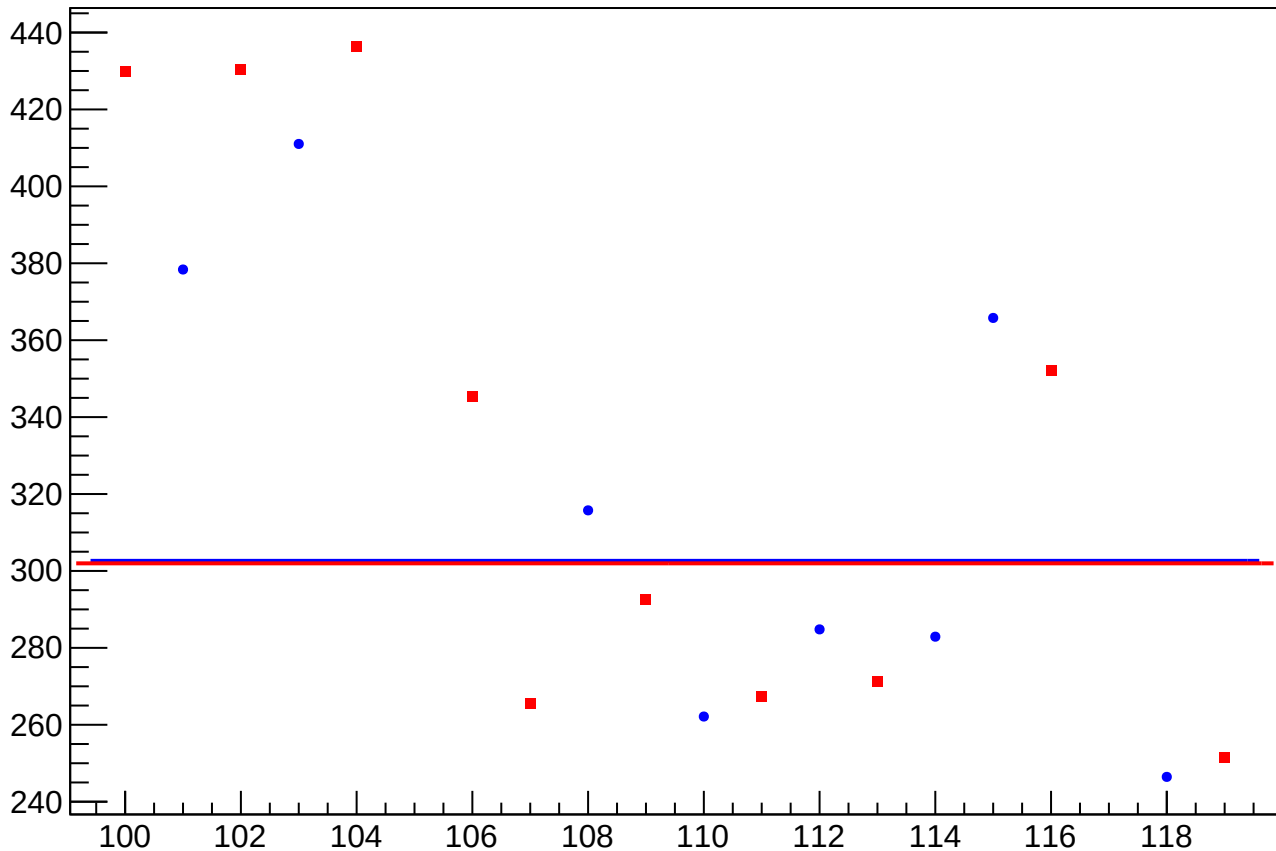
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 116.329 $\pm$ 113.896  $\chi^2$ /NDF: 113.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0r03WS\_rms vs Slug



Right In: 302.621+/-0.120  $\chi^2/\text{NDF}$ : 222293.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 301.976+/-0.108  $\chi^2/\text{NDF}$ : 325786.9/9

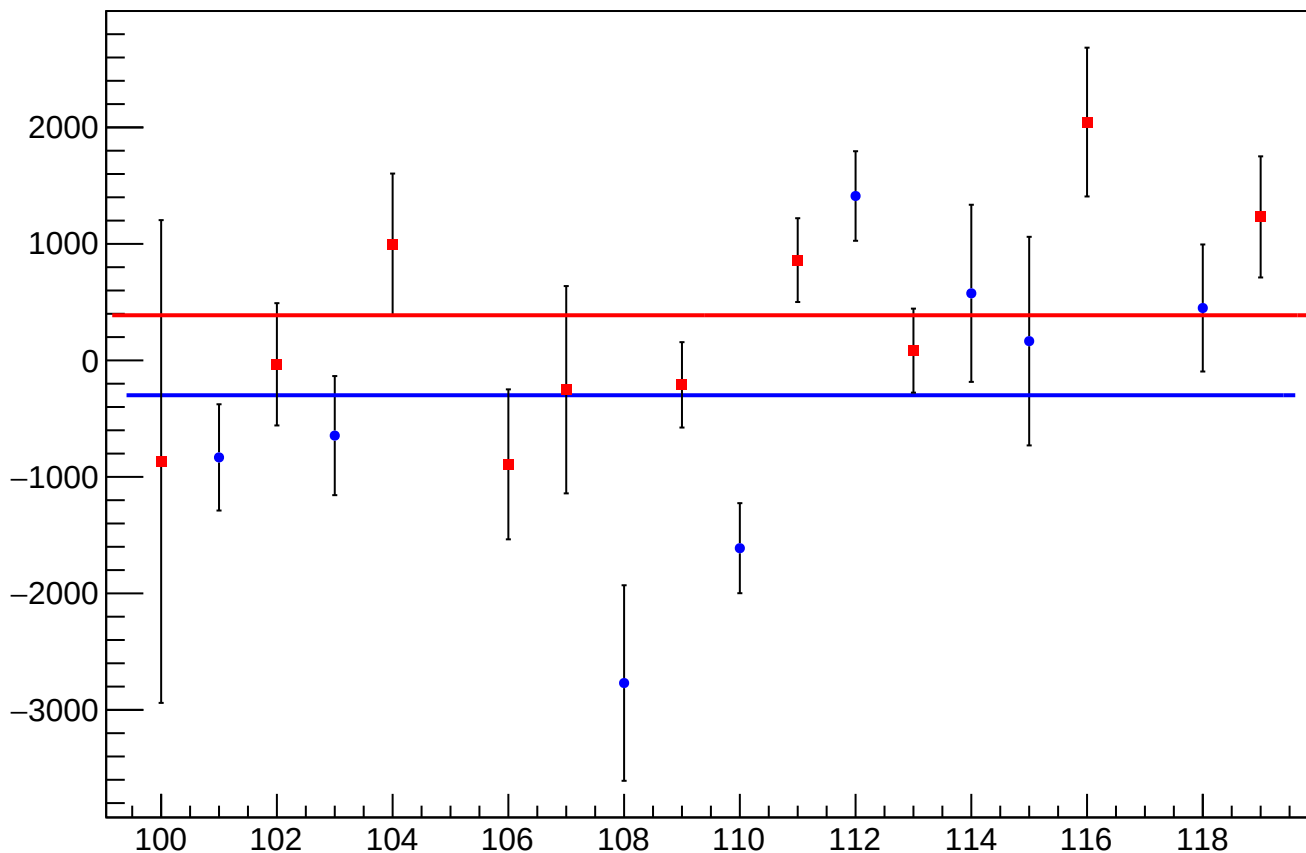
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 302.265+/-0.081  $\chi^2/\text{NDF}$ : 548096.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0r05WS\_mean vs Slug



Right In: -299.105+/-183.007  $\chi^2/\text{NDF}$ : 45.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 387.491+/-159.579  $\chi^2/\text{NDF}$ : 21.0/9

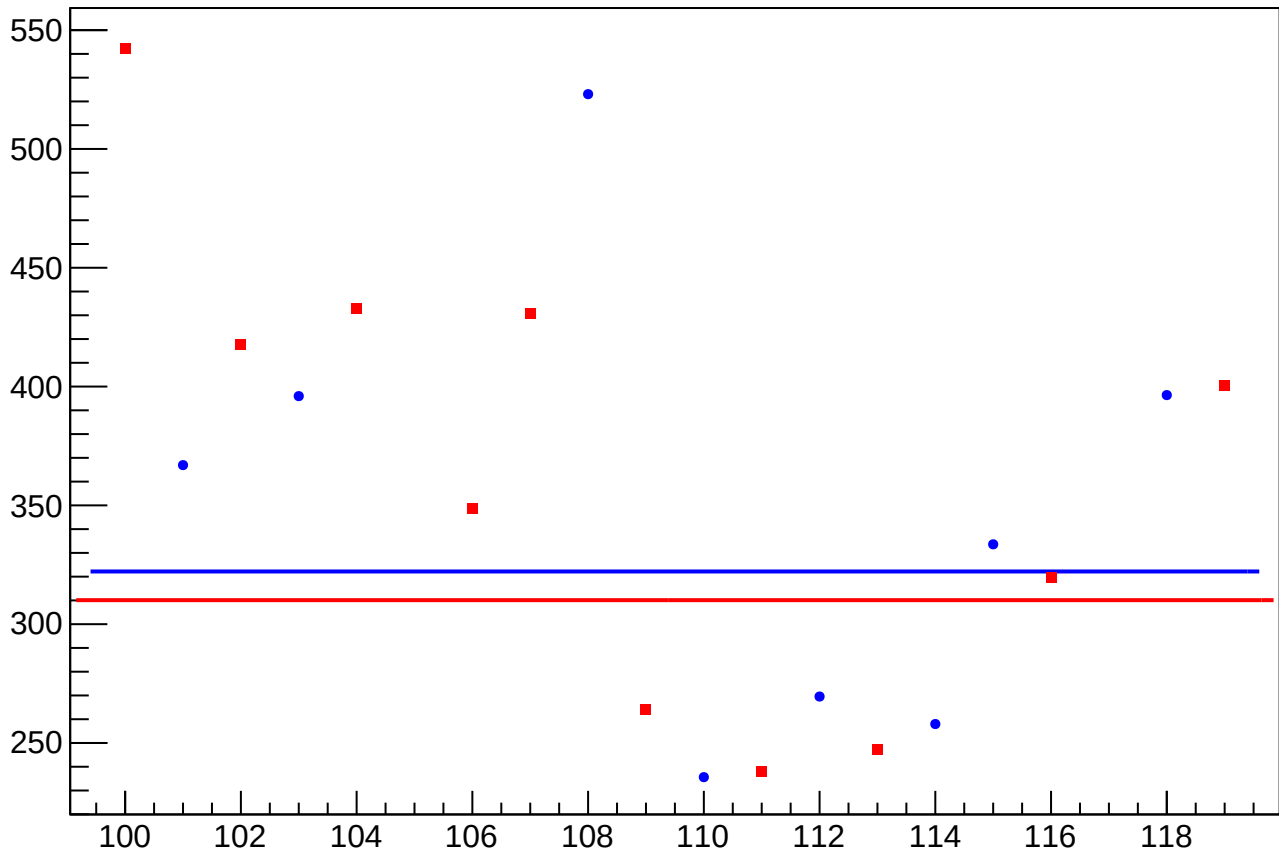
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 90.929+/-120.275  $\chi^2/\text{NDF}$ : 74.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0r05WS\_rms vs Slug



Right In: 322.180+/-0.129  $\chi^2/\text{NDF}$ : 365007.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 310.106+/-0.113  $\chi^2/\text{NDF}$ : 468491.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

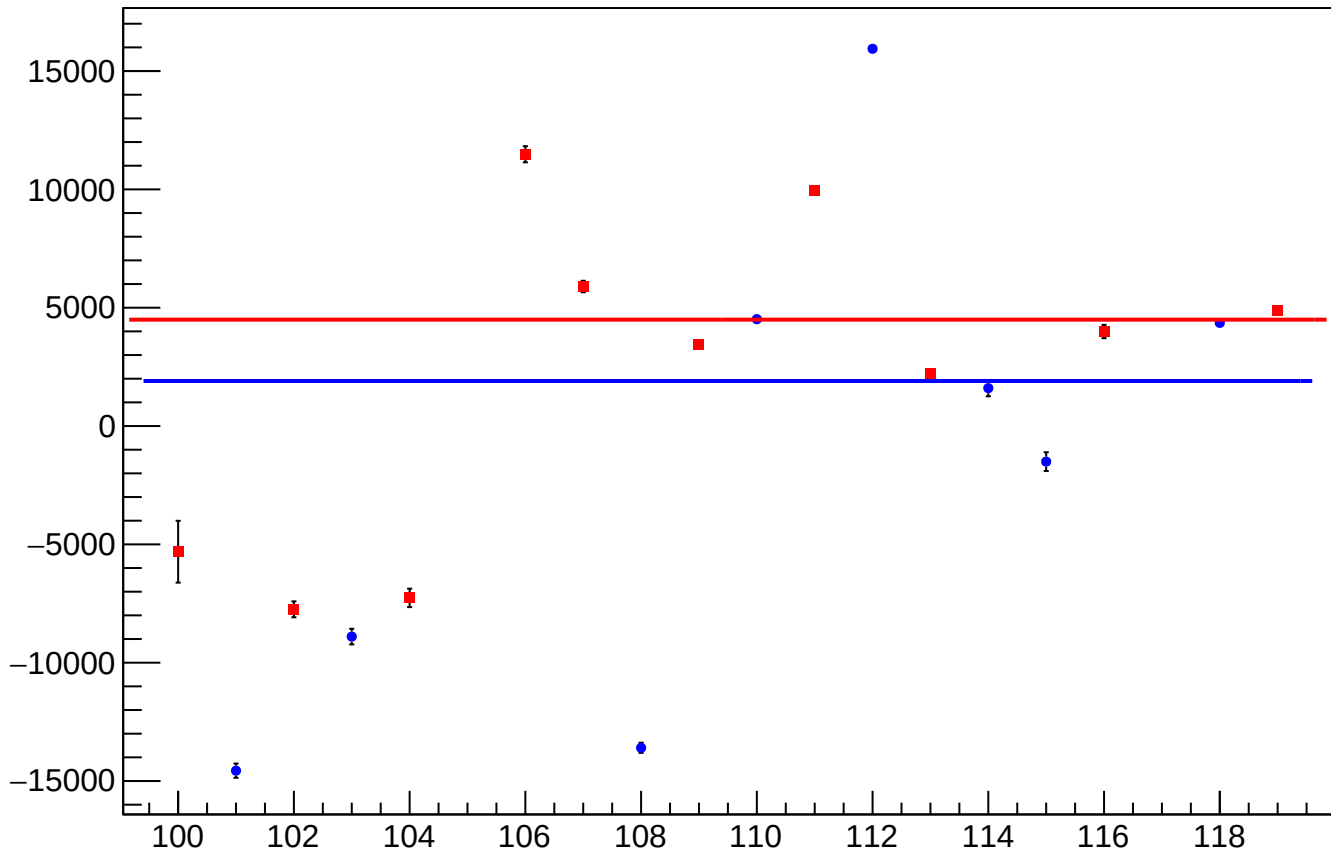
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 315.321+/-0.085  $\chi^2/\text{NDF}$ : 838444.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0i02WS\_mean vs Slug



Right In: 1903.123+/-79.352  $\chi^2/\text{NDF}$ : 16327.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4495.526+/-69.852  $\chi^2/\text{NDF}$ : 4220.0/9

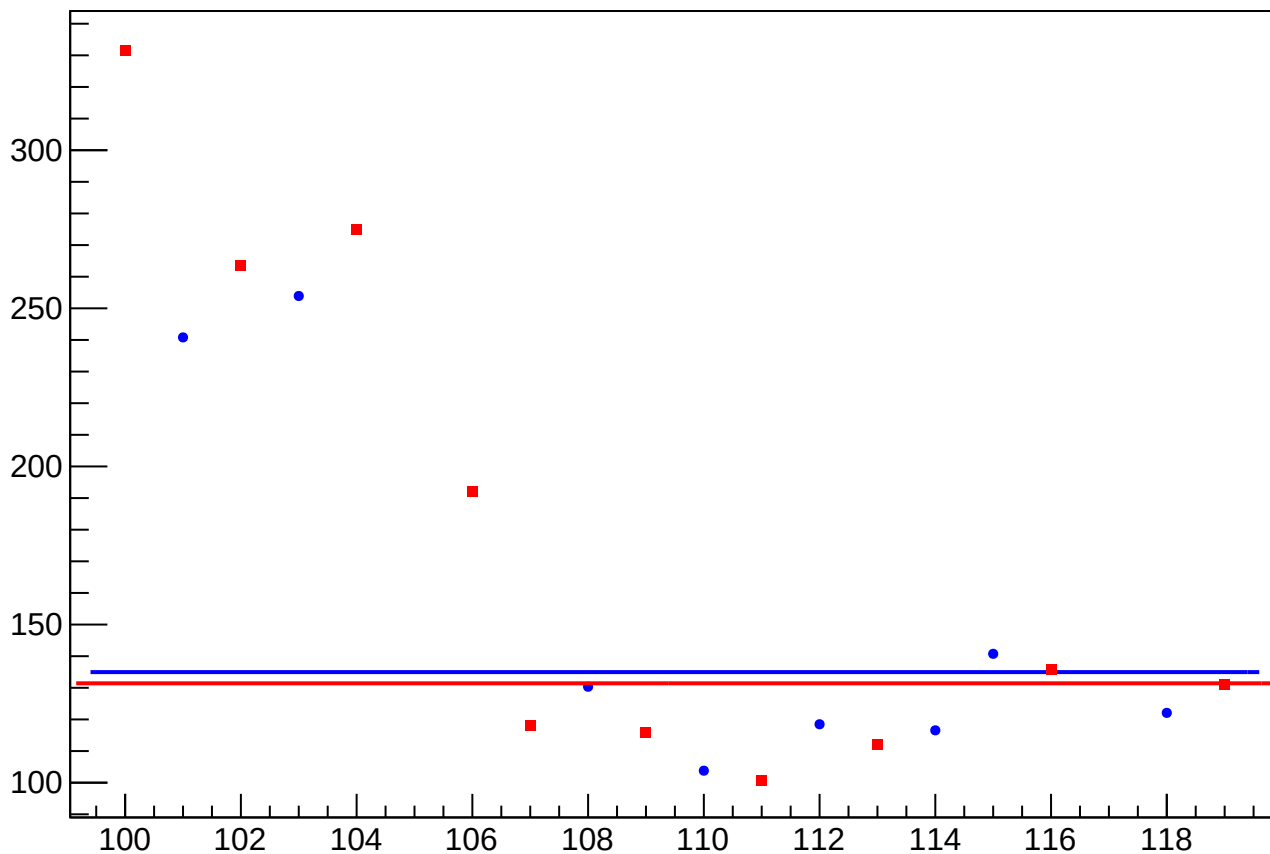
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3363.725+/-52.431  $\chi^2/\text{NDF}$ : 21148.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02WS\_rms vs Slug



Right In: 134.968 $\pm$ 0.056  $\chi^2$ /NDF: 609409.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 131.423 $\pm$ 0.049  $\chi^2$ /NDF: 820811.0/9

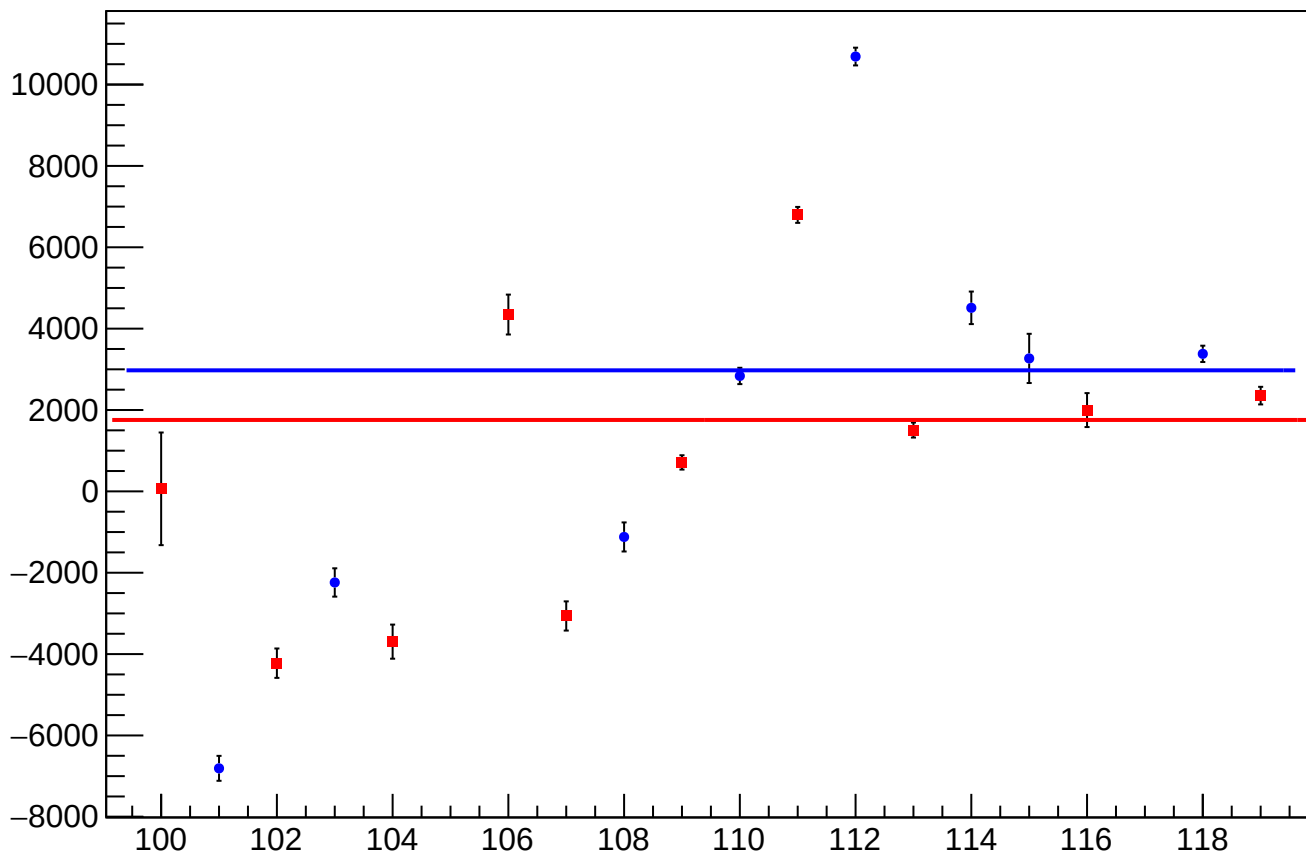
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 132.971 $\pm$ 0.037  $\chi^2$ /NDF: 1432468.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i02aWS\_mean vs Slug



Right In: 2975.207+/-96.952  $\chi^2/\text{NDF}$ : 2644.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1755.384+/-84.359  $\chi^2/\text{NDF}$ : 1358.8/9

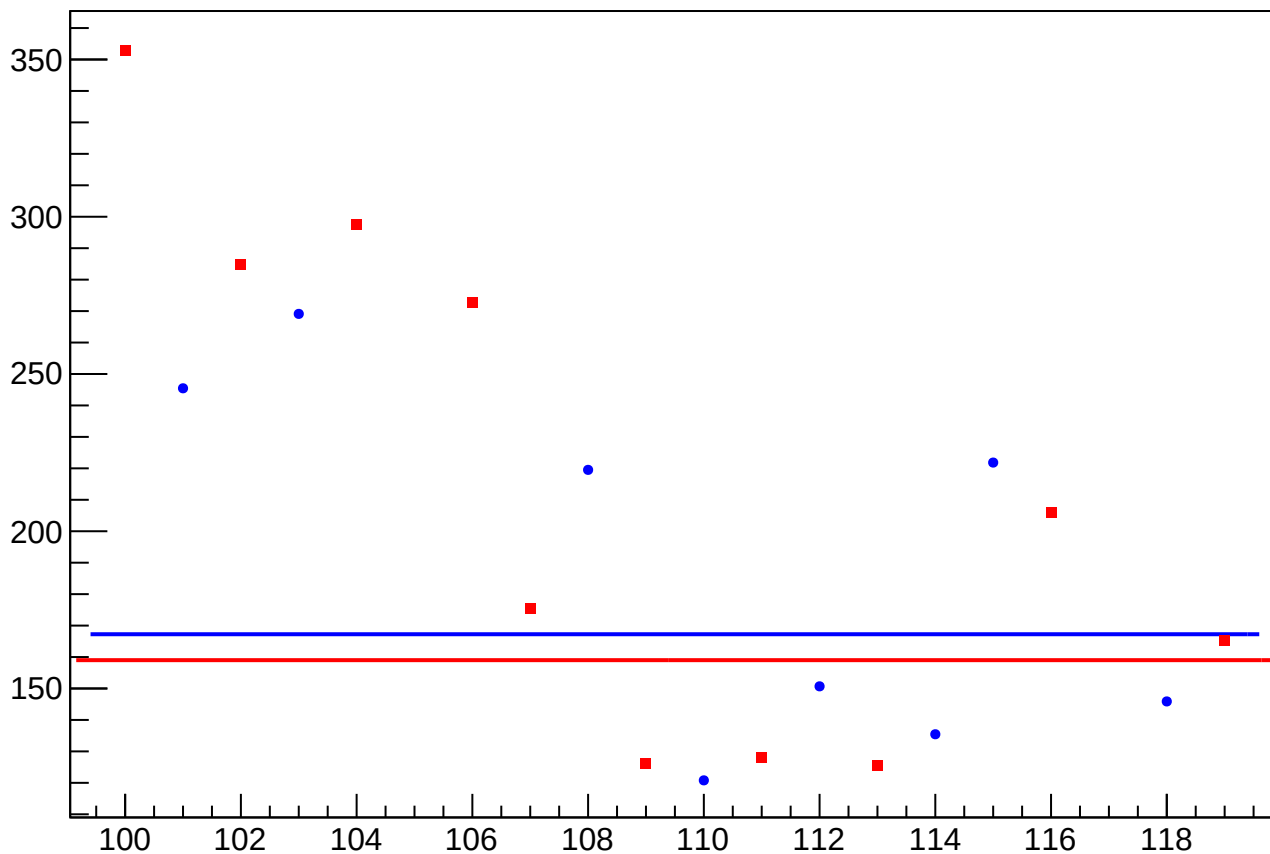
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2280.978+/-63.641  $\chi^2/\text{NDF}$ : 4093.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02aWS\_rms vs Slug



Right In: 167.252 $\pm$ 0.069  $\chi^2$ /NDF: 514336.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 159.009 $\pm$ 0.060  $\chi^2$ /NDF: 825835.6/9

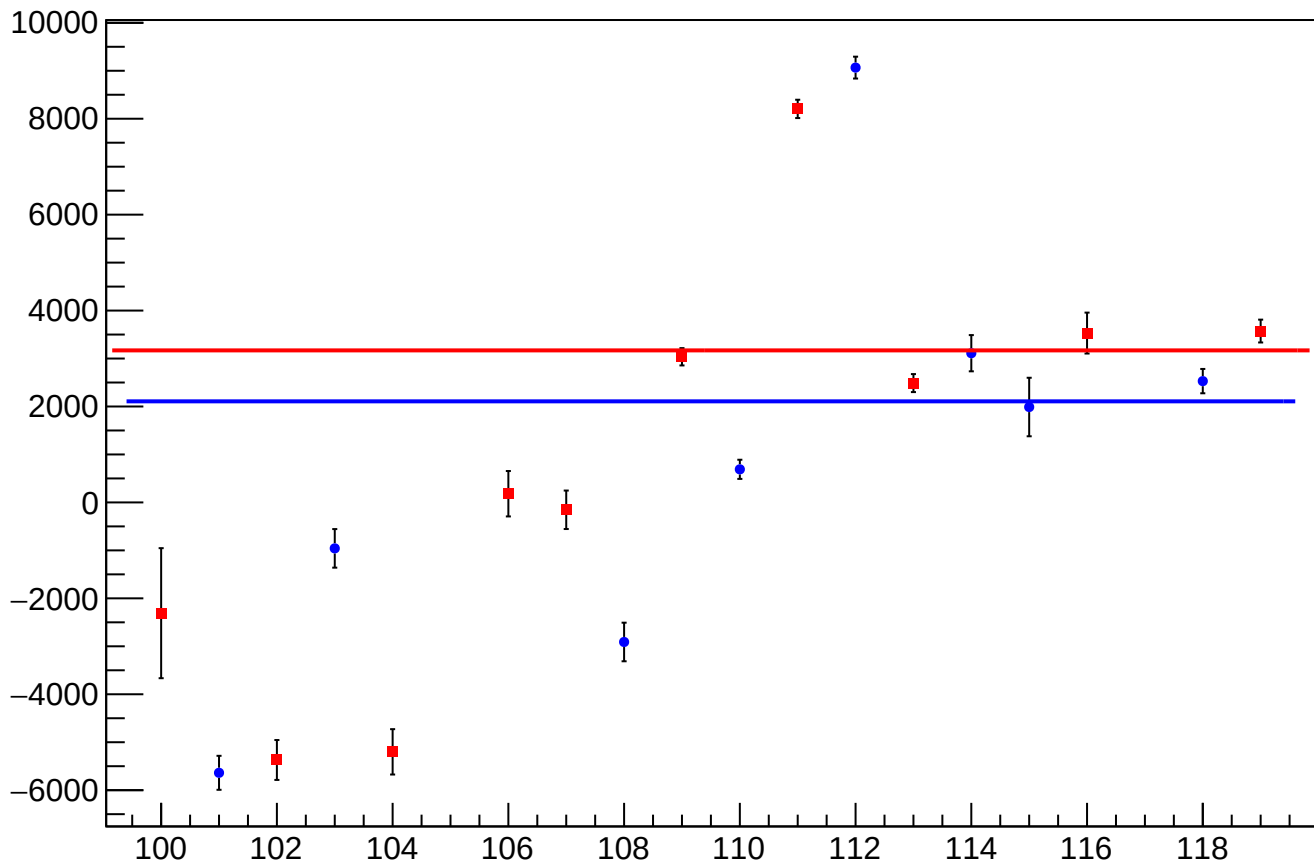
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 162.560 $\pm$ 0.045  $\chi^2$ /NDF: 1348400.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i05WS\_mean vs Slug



Right In: 2107.451+/-105.480  $\chi^2/\text{NDF}$ : 1683.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3169.821+/-87.316  $\chi^2/\text{NDF}$ : 1572.2/9

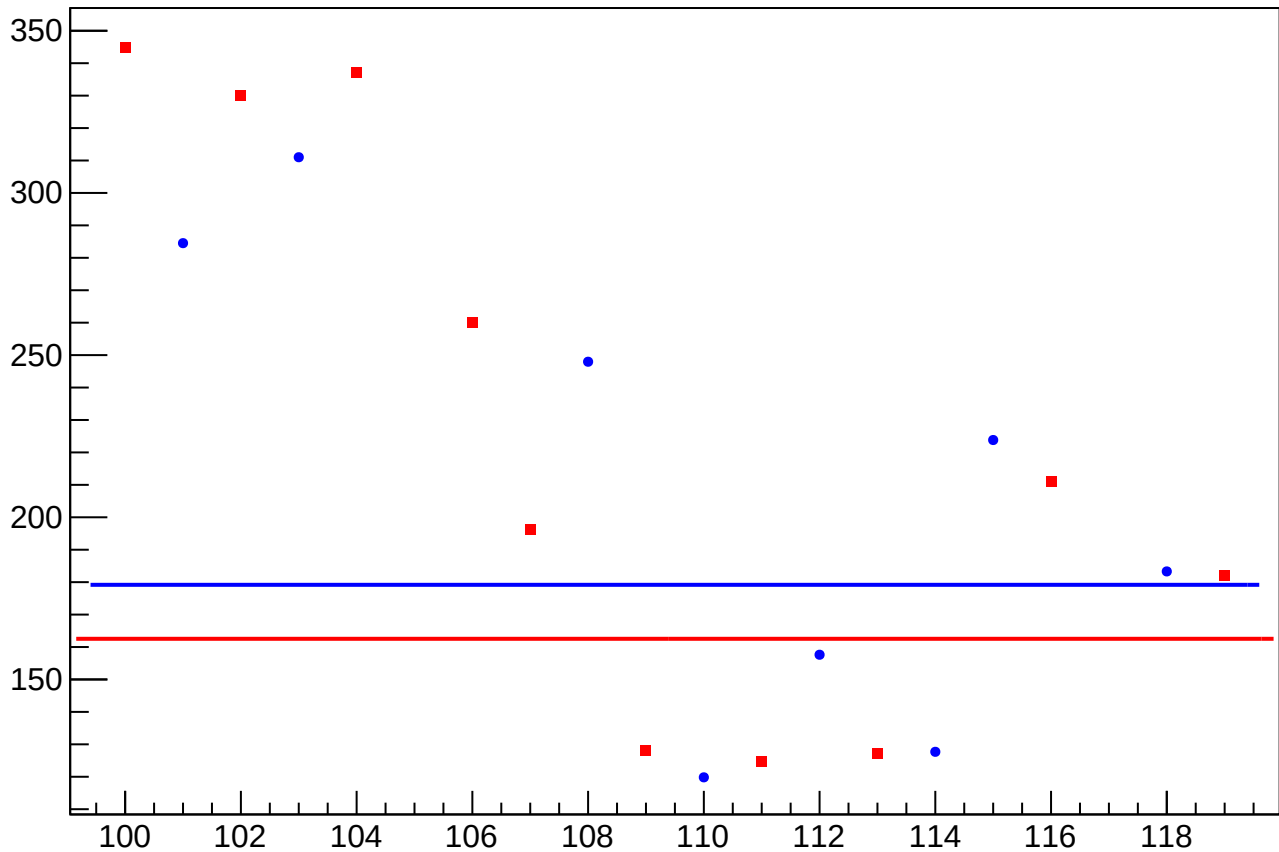
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2737.842+/-67.261  $\chi^2/\text{NDF}$ : 3316.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i05WS\_rms vs Slug



Right In: 179.179+/-0.075  $\chi^2/\text{NDF}$ : 693016.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 162.537+/-0.062  $\chi^2/\text{NDF}$ : 993754.5/9

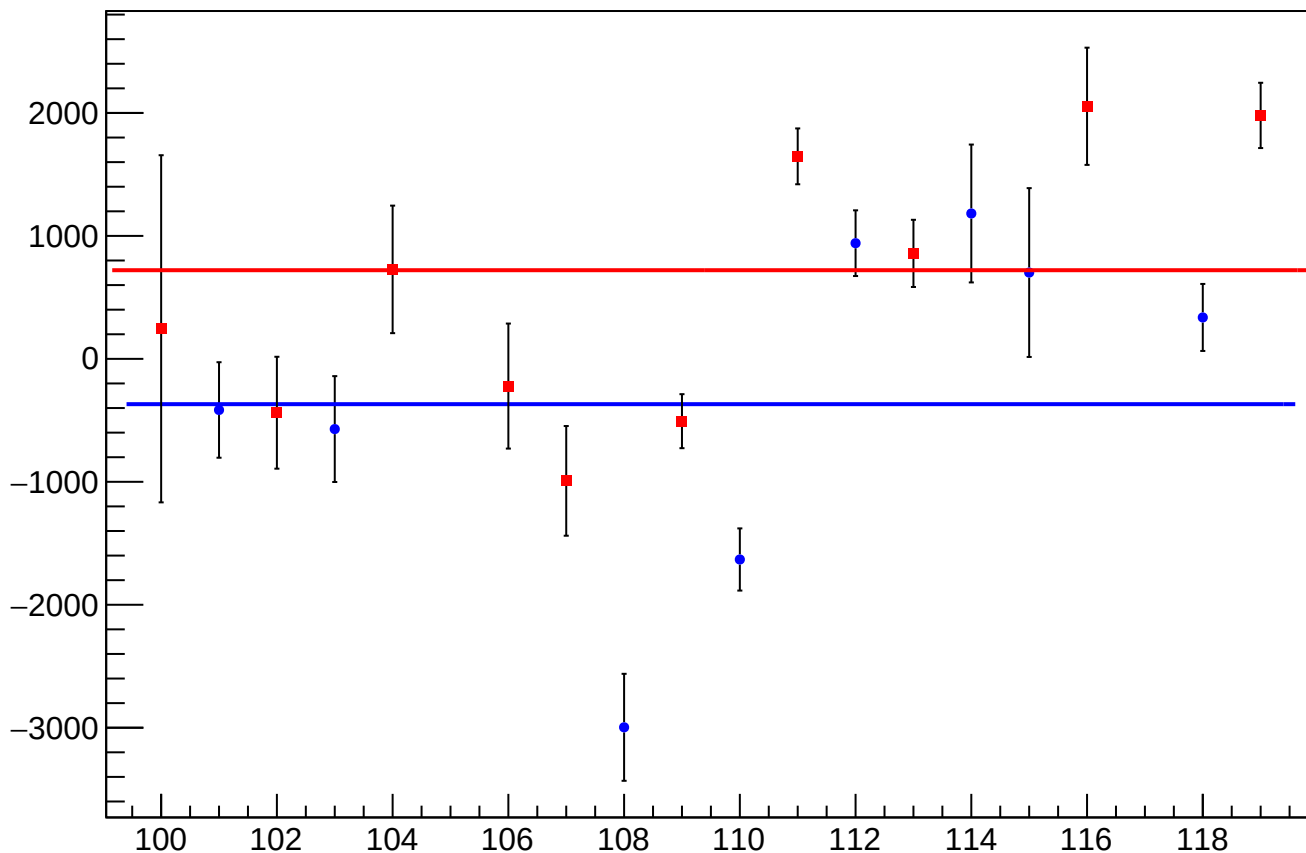
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 169.304+/-0.048  $\chi^2/\text{NDF}$ : 1716314.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i07WS\_mean vs Slug



Right In: -368.508 $\pm$ 123.351  $\chi^2$ /NDF: 102.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 720.980 $\pm$ 105.384  $\chi^2$ /NDF: 103.2/9

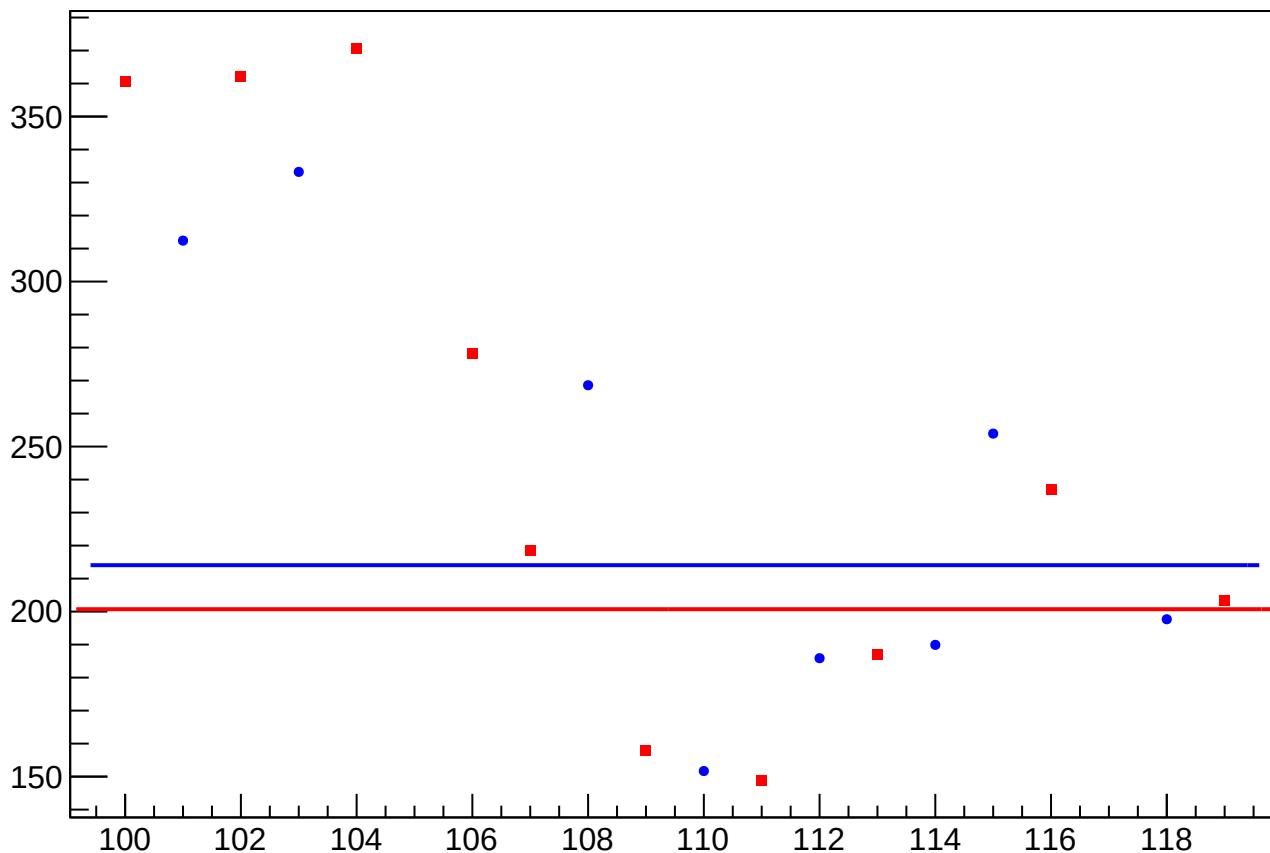
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 261.290 $\pm$ 80.124  $\chi^2$ /NDF: 250.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i07WS\_rms vs Slug



Right In: 214.064 $\pm$ 0.087  $\chi^2$ /NDF: 474495.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 200.722 $\pm$ 0.075  $\chi^2$ /NDF: 737513.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

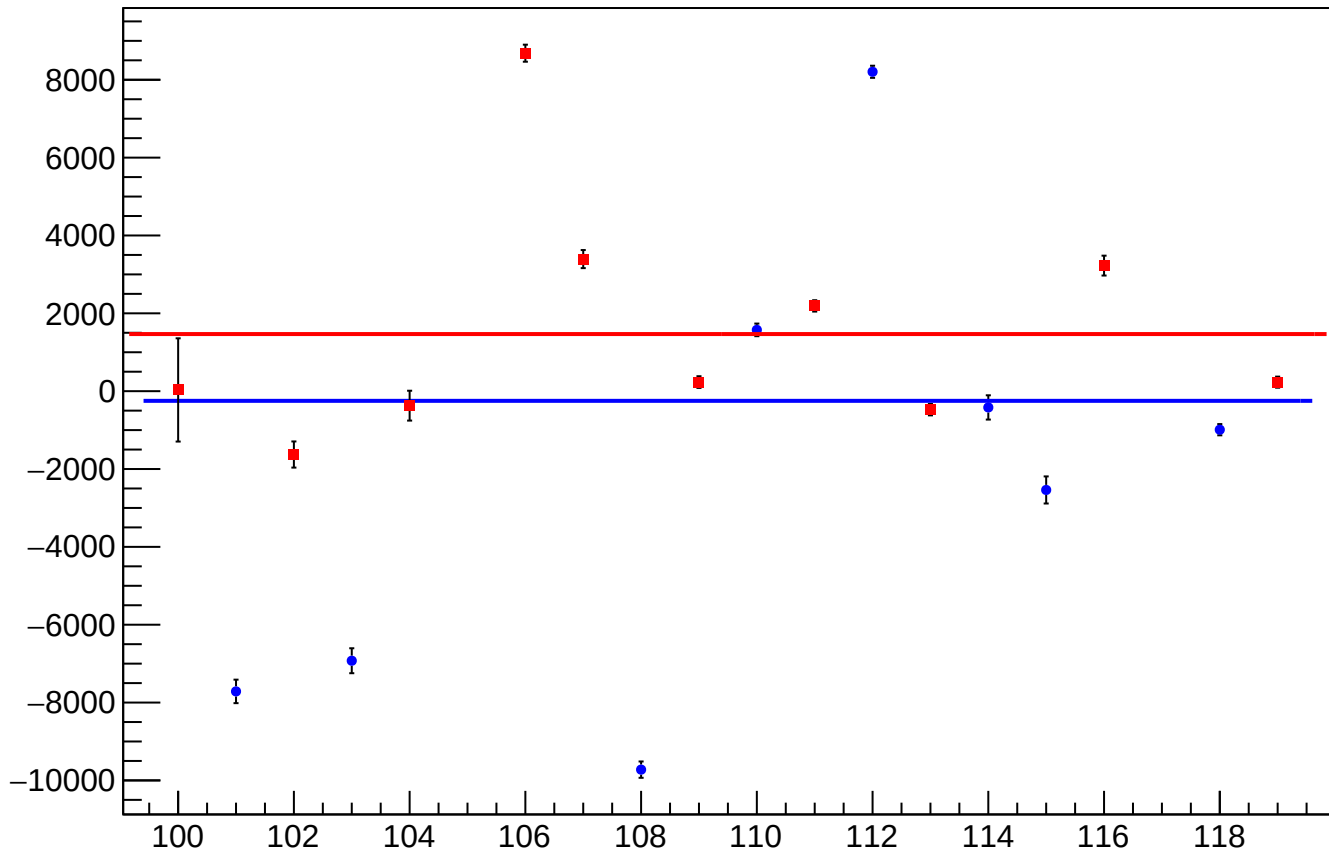
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 206.351 $\pm$ 0.057  $\chi^2$ /NDF: 1225534.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bpm1i02WS\_mean vs Slug



Right In: -248.400+/-72.661  $\chi^2/\text{NDF}$ : 6239.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1467.325+/-62.193  $\chi^2/\text{NDF}$ : 1655.9/9

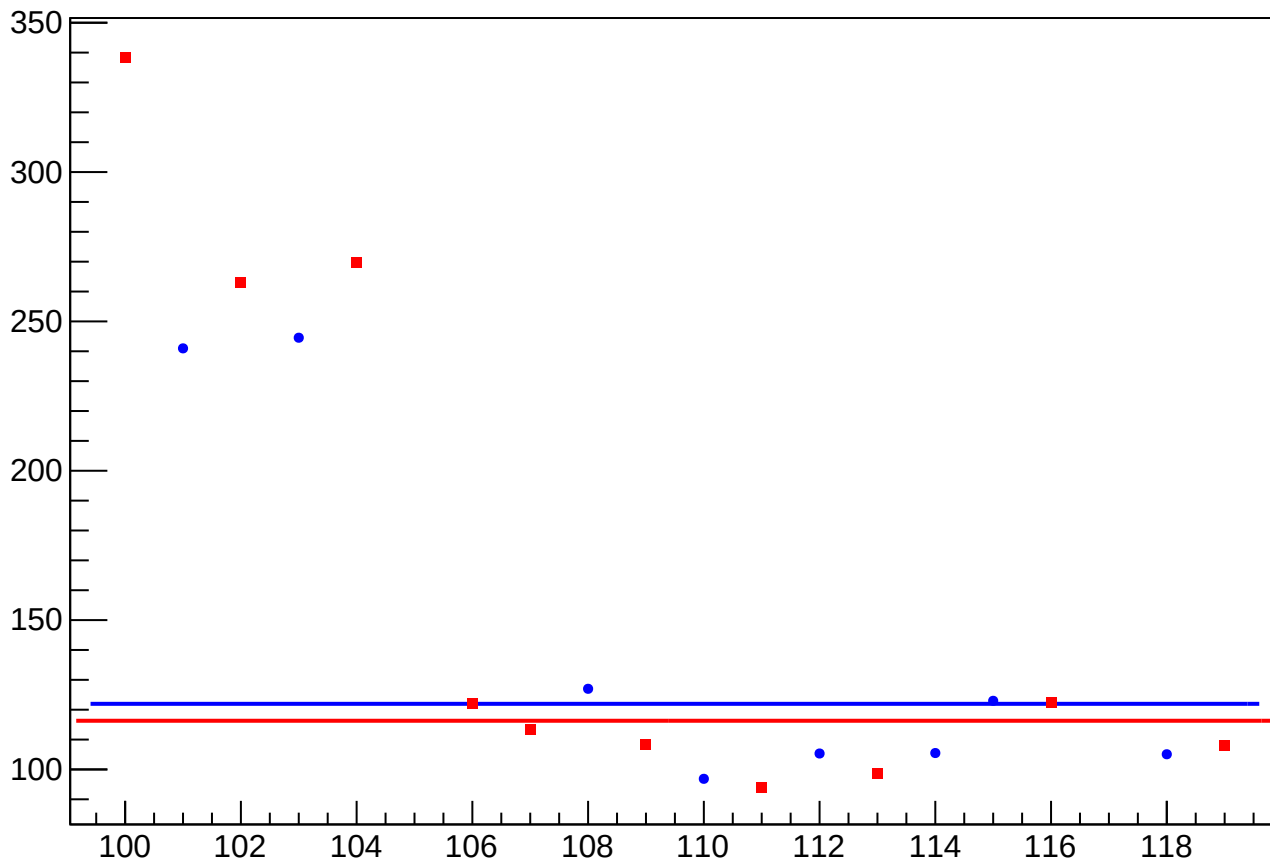
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 741.841+/-47.249  $\chi^2/\text{NDF}$ : 8216.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i02WS\_rms vs Slug



Right In: 121.968 $\pm$ 0.051  $\chi^2$ /NDF: 708485.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 116.300 $\pm$ 0.044  $\chi^2$ /NDF: 850391.9/9

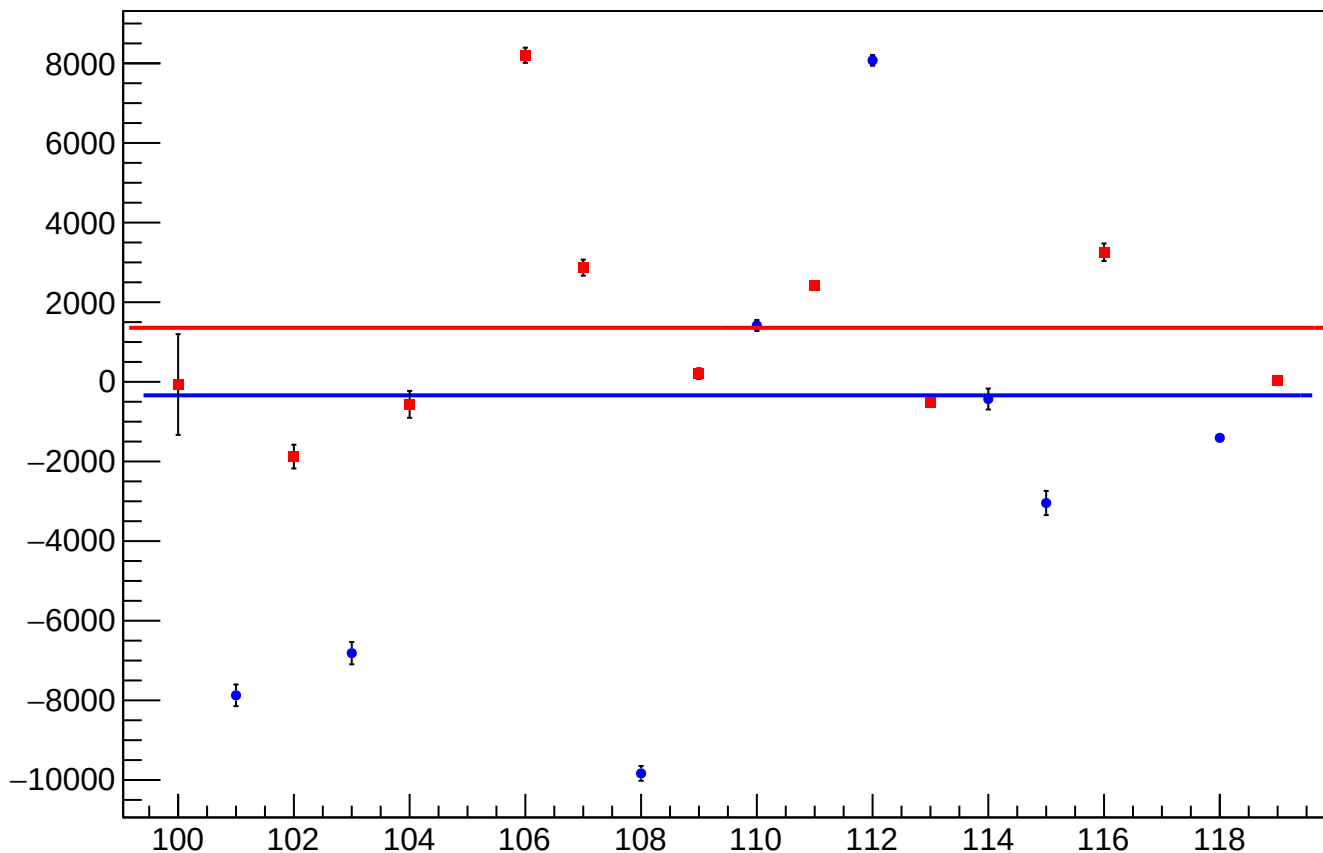
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 118.697 $\pm$ 0.033  $\chi^2$ /NDF: 1565900.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i04WS\_mean vs Slug



Right In: -339.255+/-62.313  $\chi^2/\text{NDF}$ : 8200.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1357.074+/-53.257  $\chi^2/\text{NDF}$ : 2079.4/9

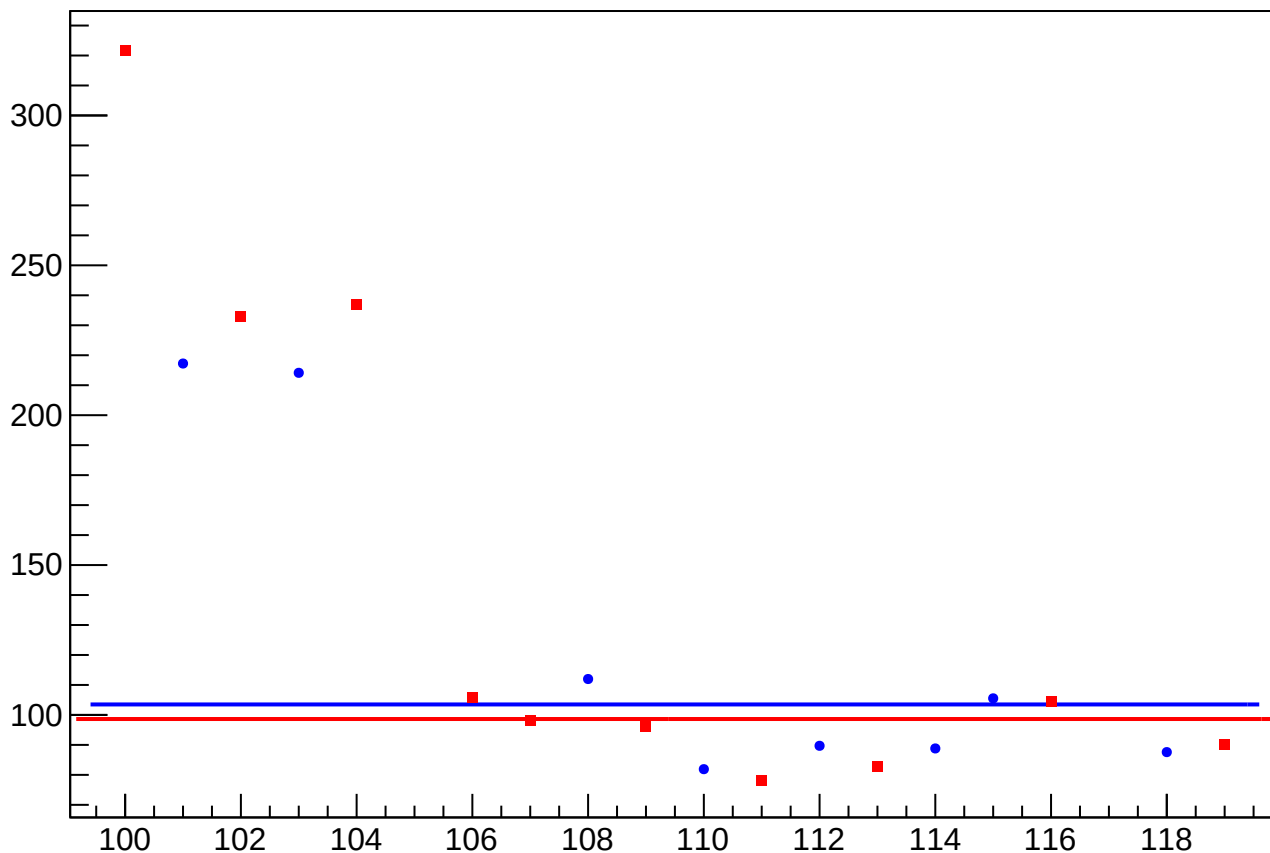
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 641.018+/-40.485  $\chi^2/\text{NDF}$ : 10708.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i04WS\_rms vs Slug



Right In: 103.496+/-0.044  $\chi^2/\text{NDF}$ : 775267.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 98.635+/-0.038  $\chi^2/\text{NDF}$ : 907614.2/9

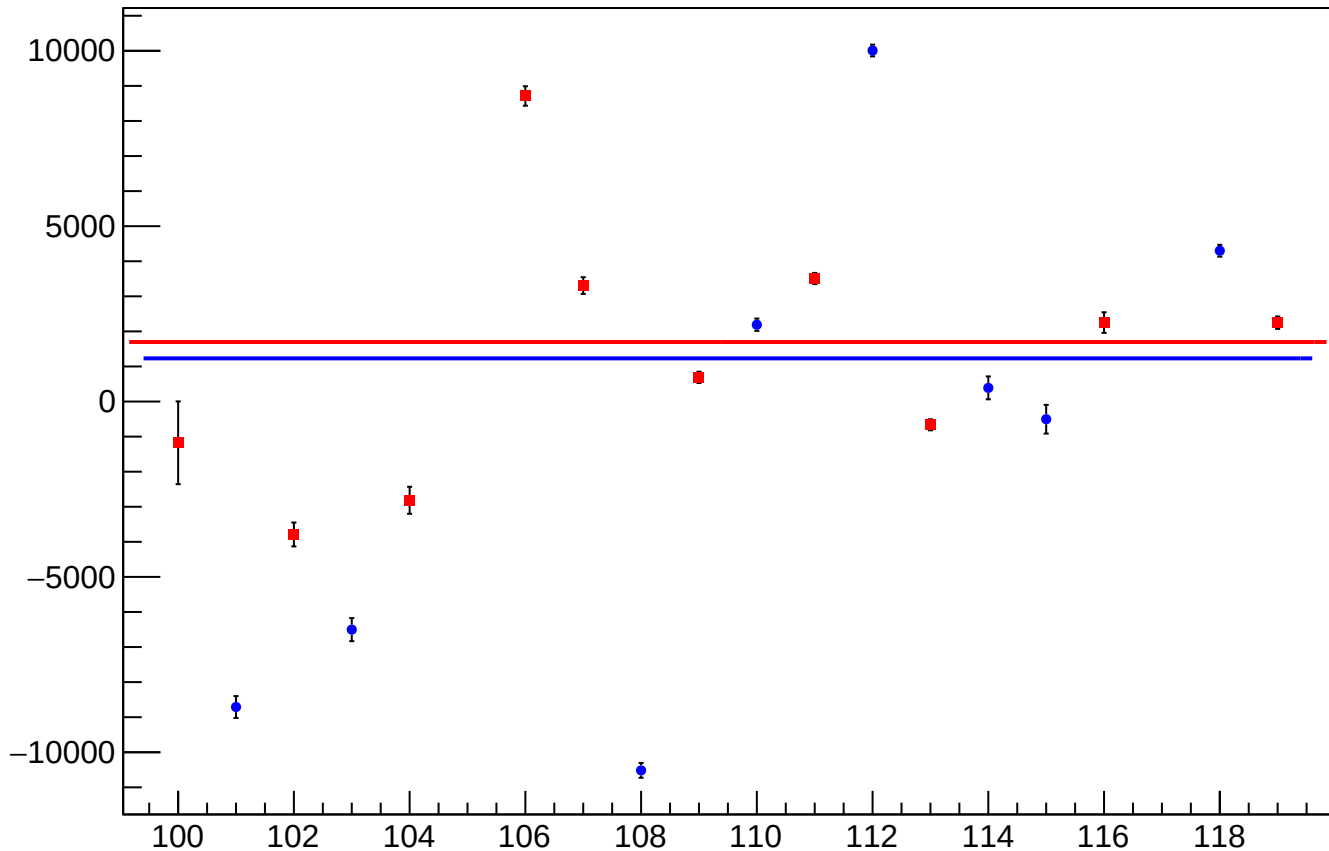
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 100.687+/-0.029  $\chi^2/\text{NDF}$ : 1689913.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i06WS\_mean vs Slug



Right In: 1230.512+/-78.918  $\chi^2/\text{NDF}$ : 7798.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1697.615+/-69.184  $\chi^2/\text{NDF}$ : 1494.2/9

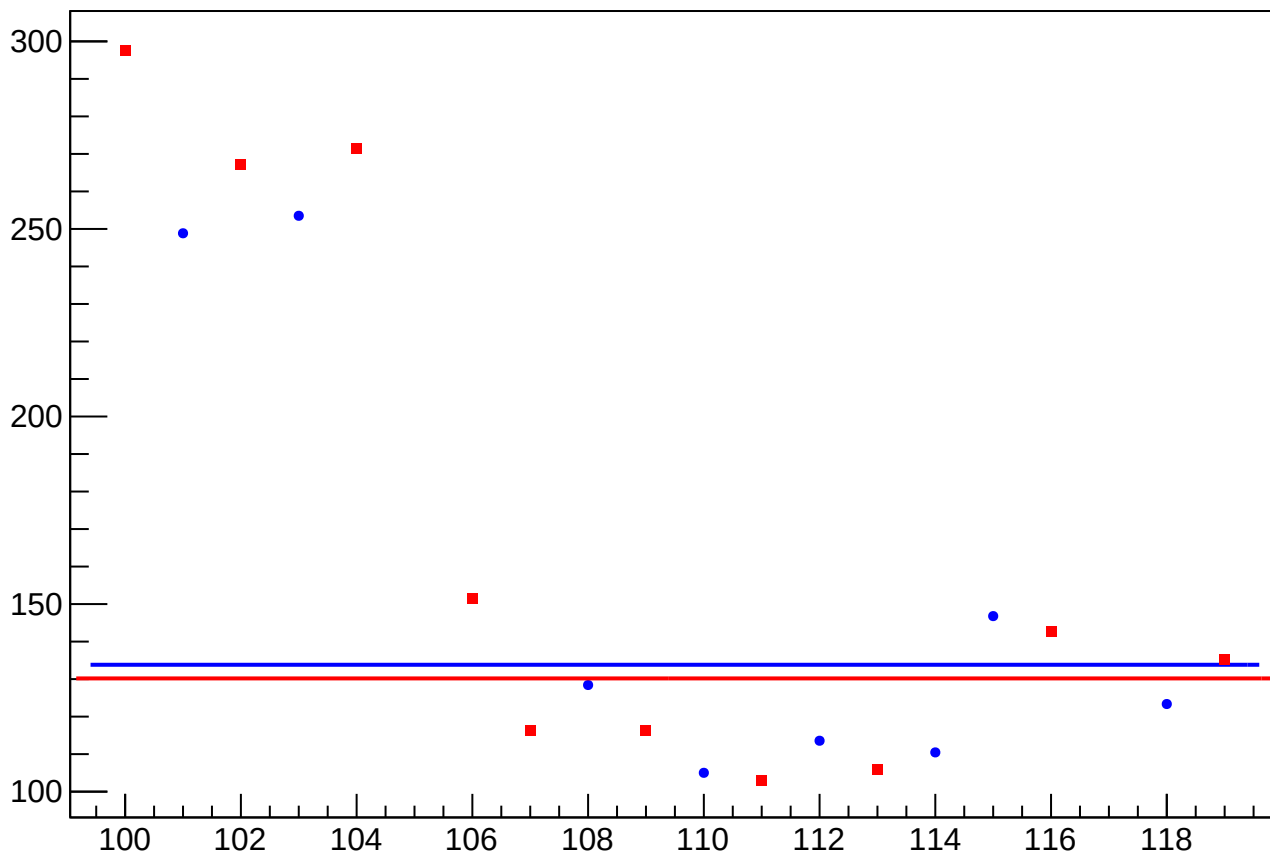
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1494.631+/-52.024  $\chi^2/\text{NDF}$ : 9312.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i06WS\_rms vs Slug



Right In: 133.821+/-0.056  $\chi^2/\text{NDF}$ : 641841.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 130.182+/-0.049  $\chi^2/\text{NDF}$ : 776019.9/9

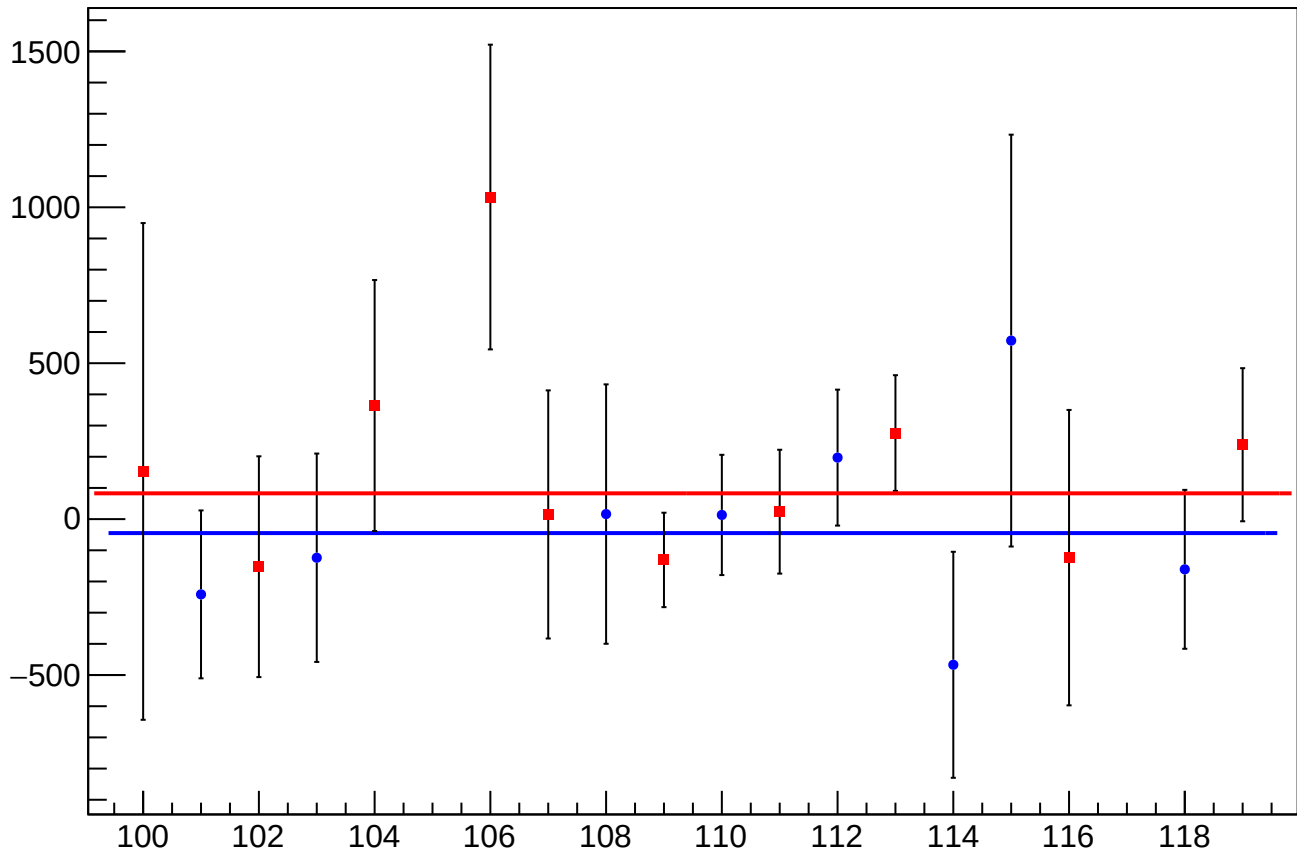
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 131.763+/-0.037  $\chi^2/\text{NDF}$ : 1420266.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_2an\_us\_an\_ds\_avg\_mean vs Slug



Right In: -44.794+/-99.118  $\chi^2/\text{NDF}$ : 4.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 82.699+/-82.957  $\chi^2/\text{NDF}$ : 8.5/9

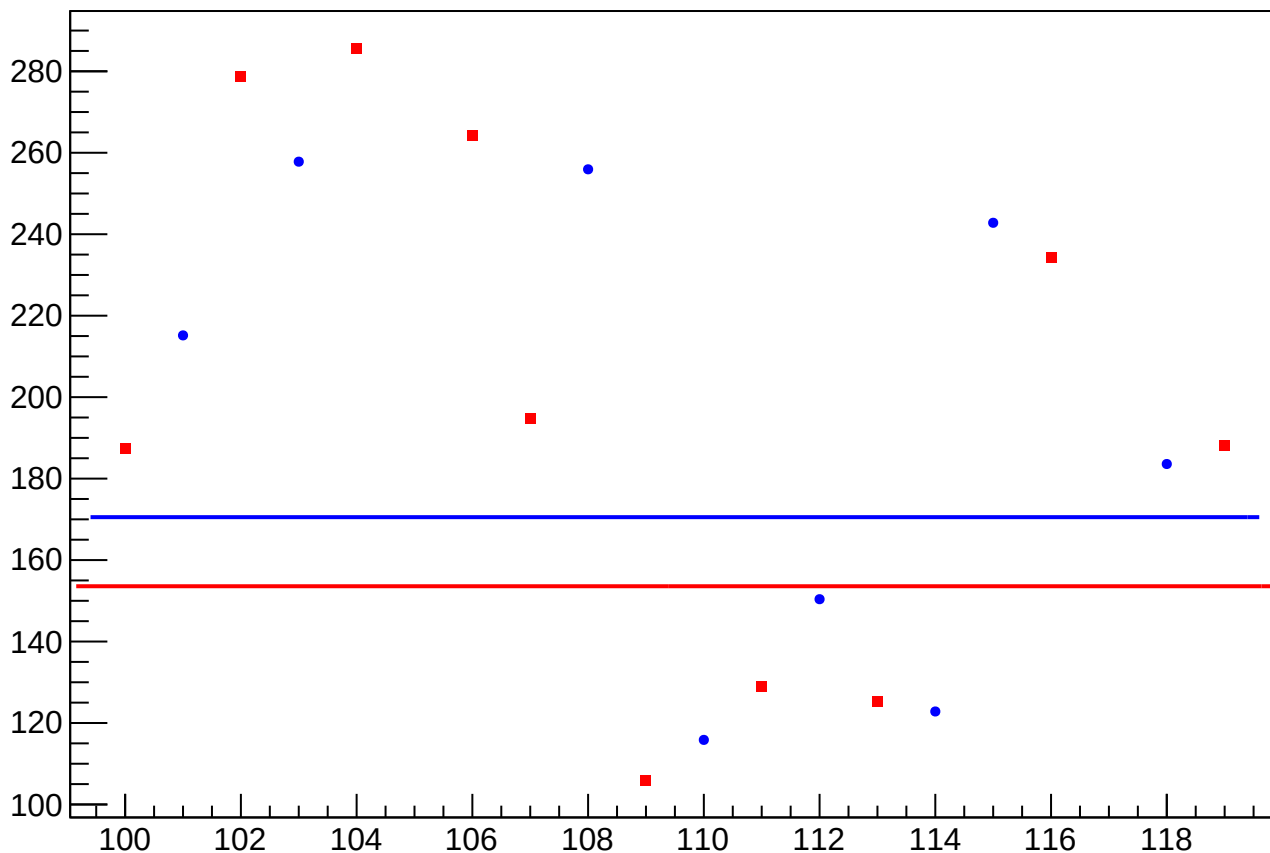
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.180+/-63.616  $\chi^2/\text{NDF}$ : 13.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_2an\_us\_an\_ds\_avg\_rms vs Slug



Right In: 170.538 $\pm$ 0.070  $\chi^2$ /NDF: 517517.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 153.576 $\pm$ 0.059  $\chi^2$ /NDF: 965577.7/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

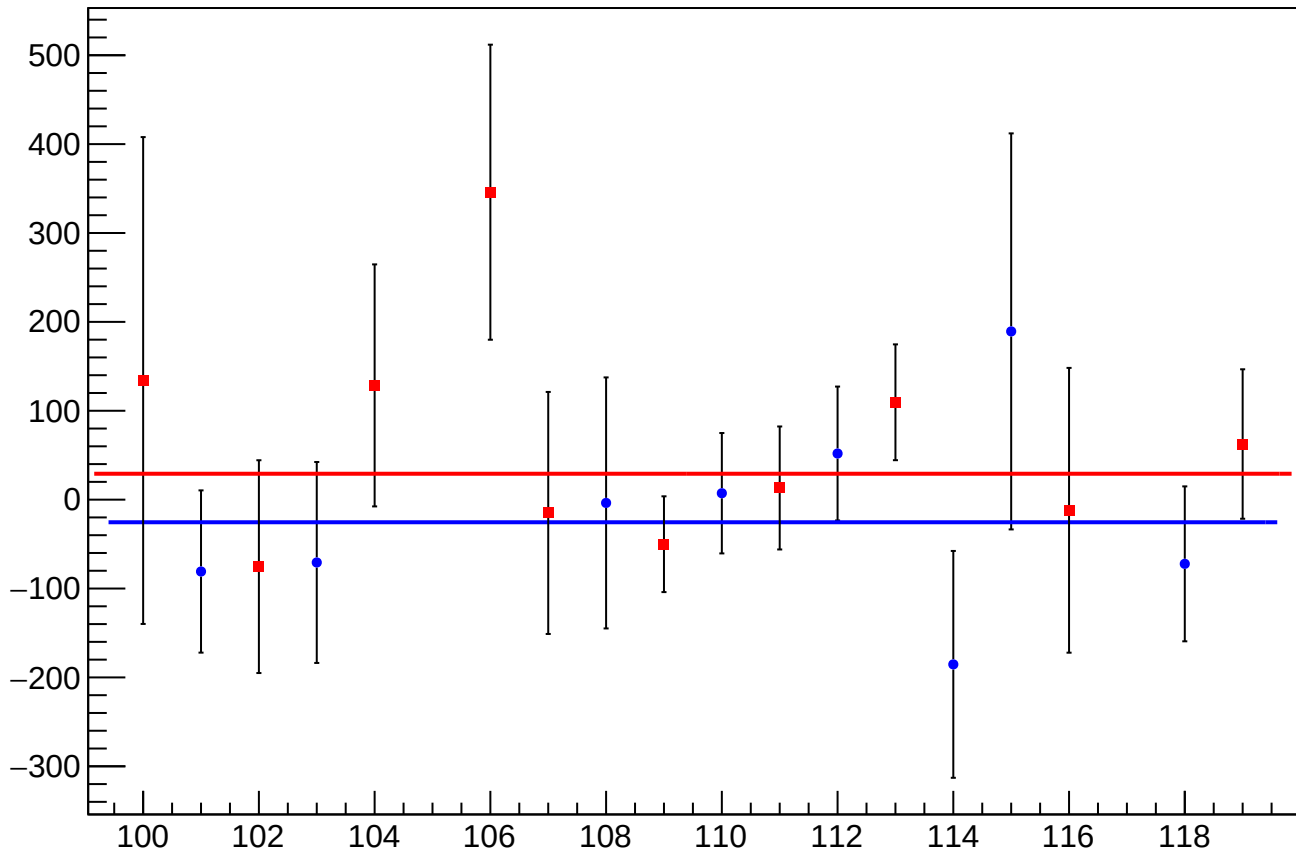
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 160.563 $\pm$ 0.045  $\chi^2$ /NDF: 1517540.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bcm\_2an\_us\_an\_ds\_dd\_mean vs Slug



Right In: -25.436 $\pm$ 34.180  $\chi^2$ /NDF: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 29.146 $\pm$ 28.907  $\chi^2$ /NDF: 9.2/9

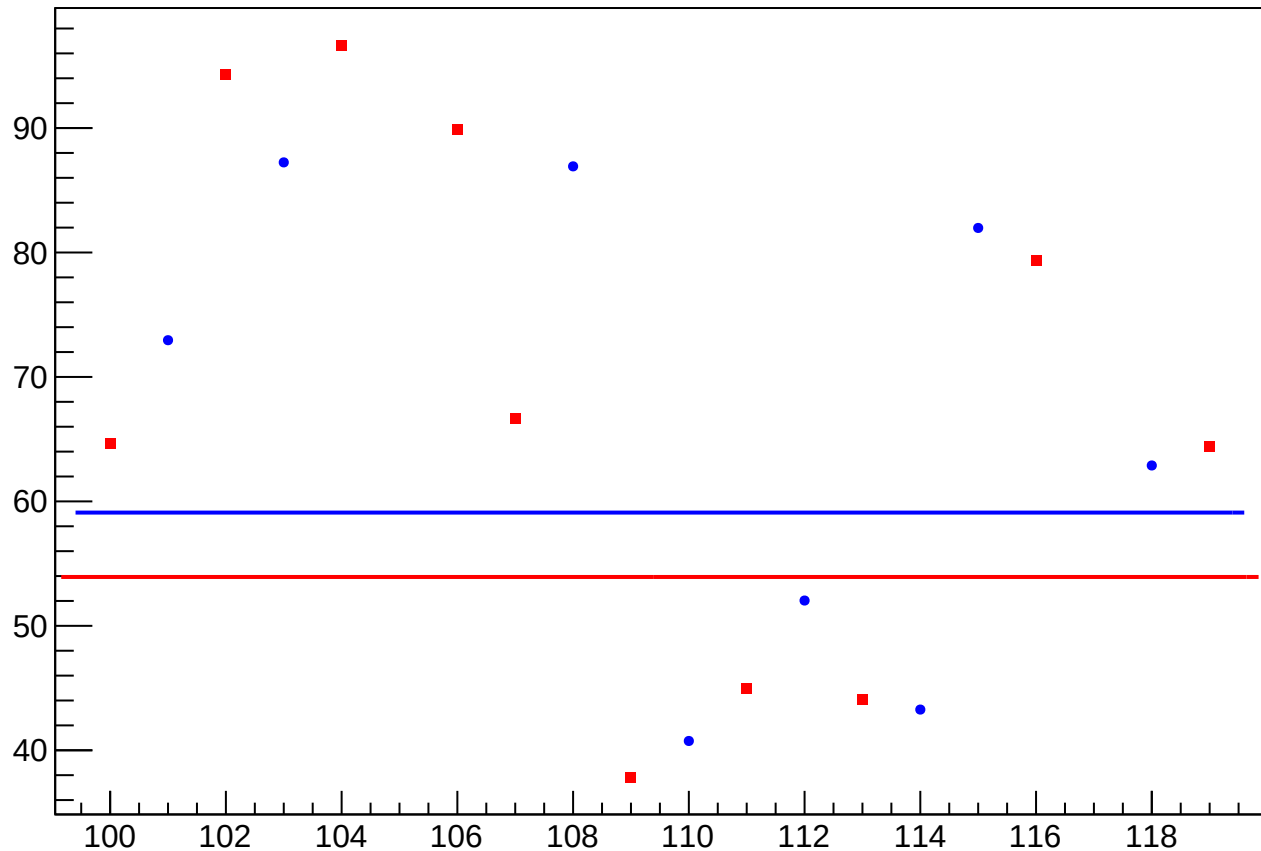
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.386 $\pm$ 22.072  $\chi^2$ /NDF: 15.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_2an\_us\_an\_ds\_dd\_rms vs Slug



Right In: 59.101 $\pm$ 0.024  $\chi^2$ /NDF: 467743.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 53.927 $\pm$ 0.020  $\chi^2$ /NDF: 877492.4/9

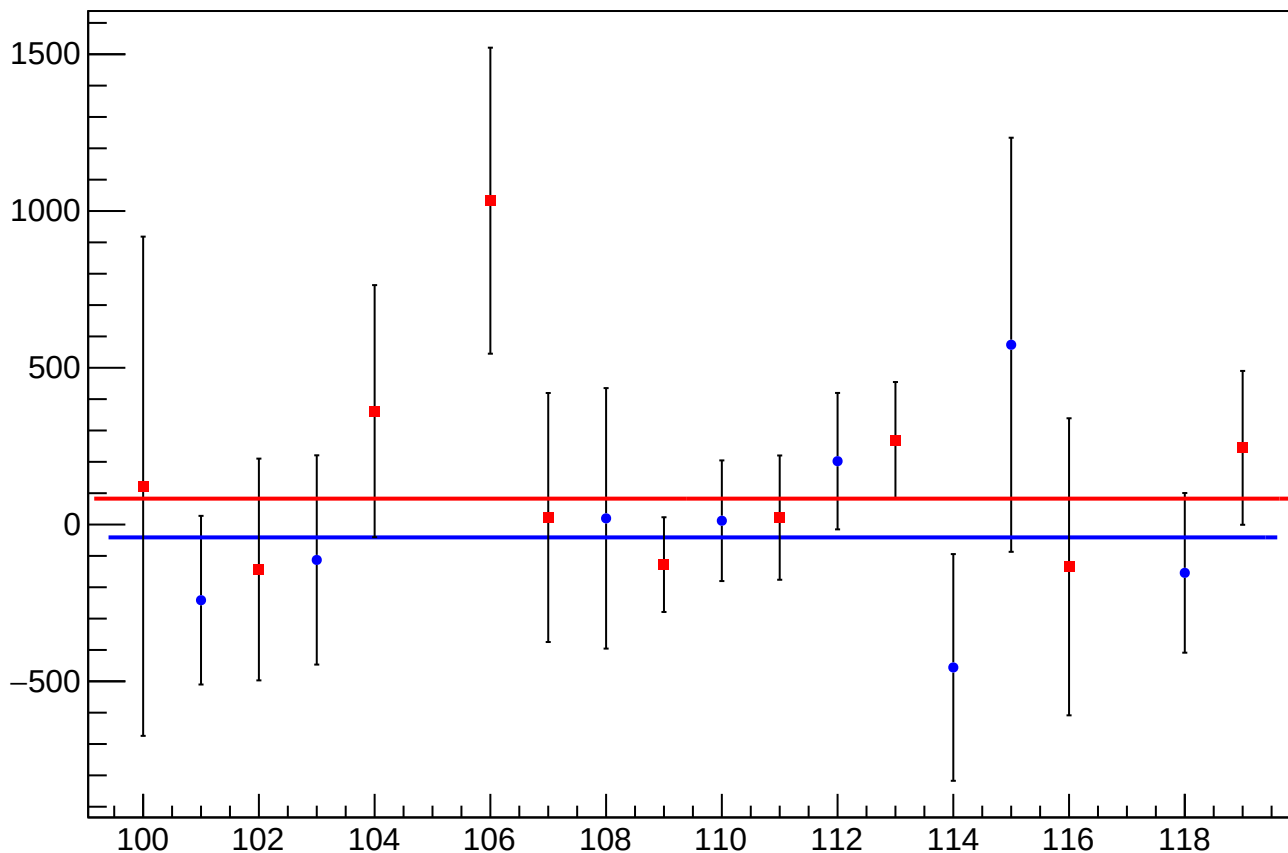
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.084 $\pm$ 0.016  $\chi^2$ /NDF: 1371954.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_an\_us\_an\_ds\_avg\_mean vs Slug



Right In: -40.965+/-98.969  $\chi^2/\text{NDF}$ : 4.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 82.648+/-82.811  $\chi^2/\text{NDF}$ : 8.4/9

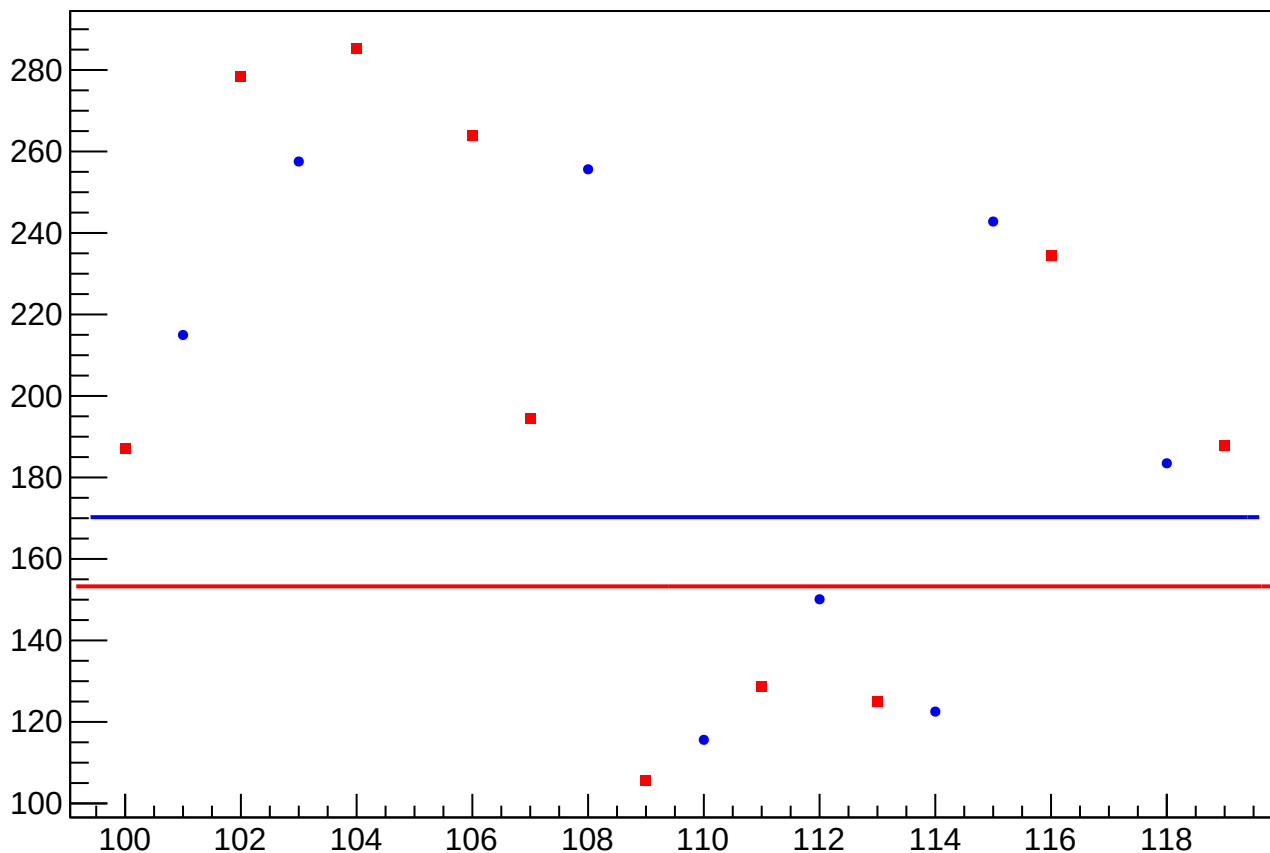
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.743+/-63.511  $\chi^2/\text{NDF}$ : 13.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_an\_ds\_avg\_rms vs Slug



Right In: 170.254+/-0.070  $\chi^2/\text{NDF}$ : 519334.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 153.271+/-0.059  $\chi^2/\text{NDF}$ : 968431.4/9

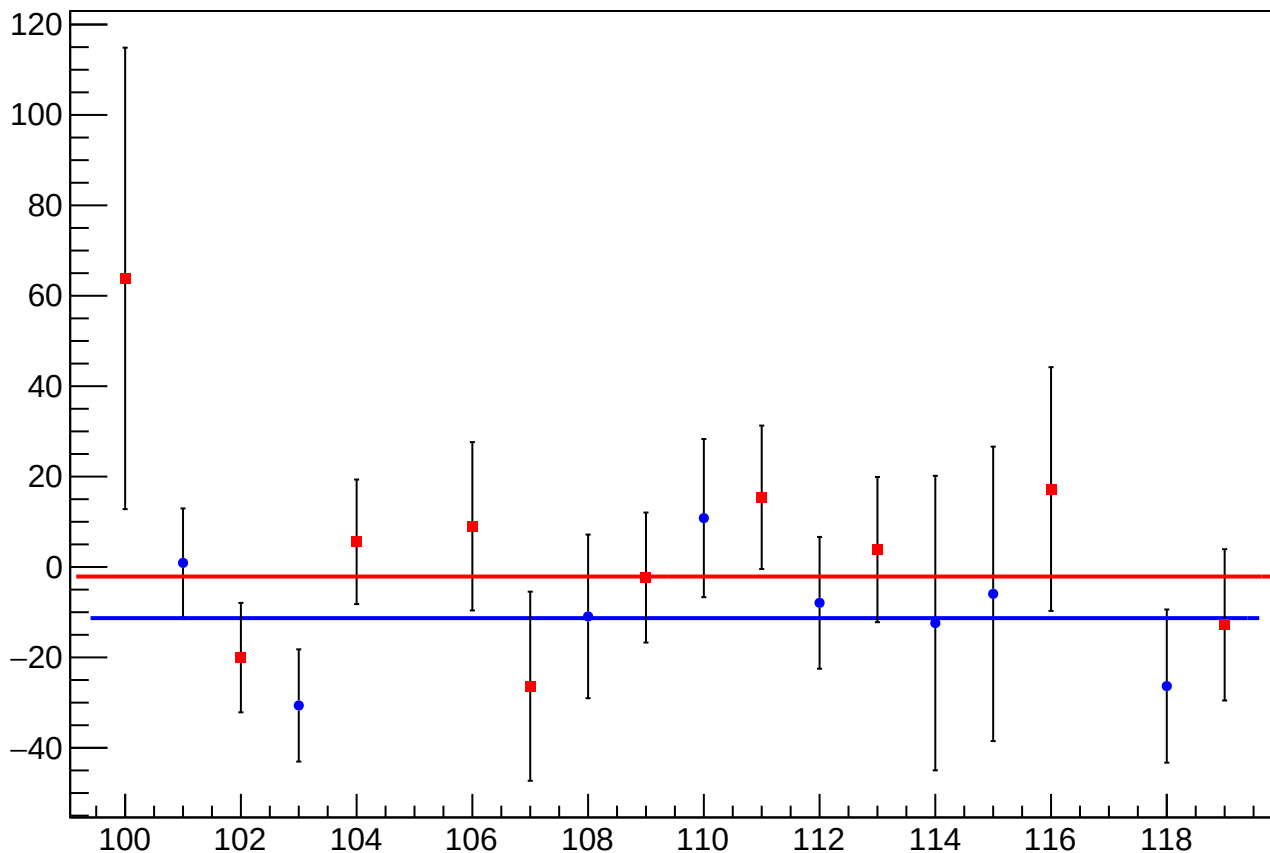
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 160.265+/-0.045  $\chi^2/\text{NDF}$ : 1522405.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_us\_an\_ds\_dd\_mean vs Slug



Right In: -11.308 $\pm$ 5.795  $\chi^2$ /NDF: 5.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.105 $\pm$ 5.323  $\chi^2$ /NDF: 8.2/9

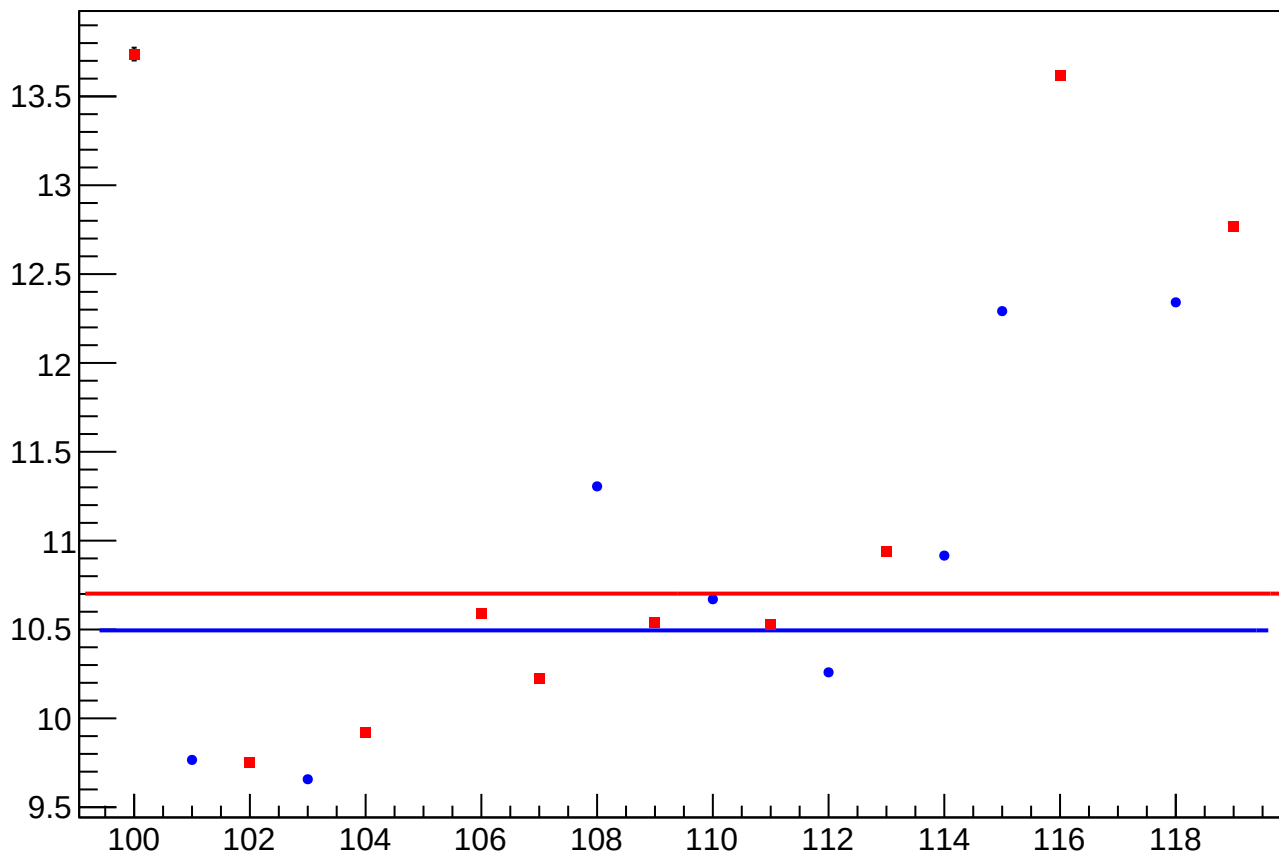
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.316 $\pm$ 3.921  $\chi^2$ /NDF: 15.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_us\_an\_ds\_dd\_rms vs Slug



Right In: 10.495 $\pm$ 0.004  $\chi^2$ /NDF: 51310.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.702 $\pm$ 0.004  $\chi^2$ /NDF: 81782.3/9

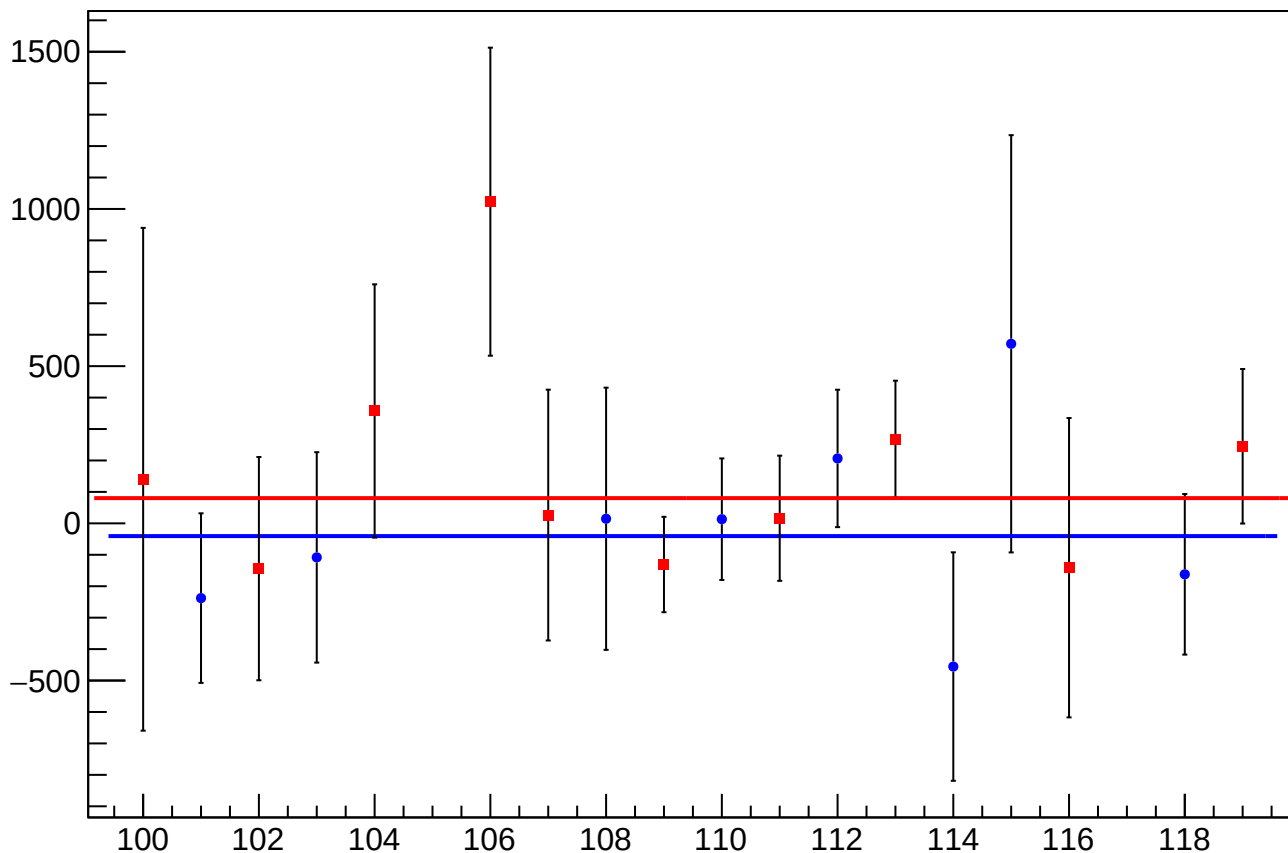
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.607 $\pm$ 0.003  $\chi^2$ /NDF: 134475.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_us\_an\_ds3\_avg\_mean vs Slug



Right In: -40.578+/-99.346  $\chi^2/\text{NDF}$ : 4.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 80.237+/-83.143  $\chi^2/\text{NDF}$ : 8.3/9

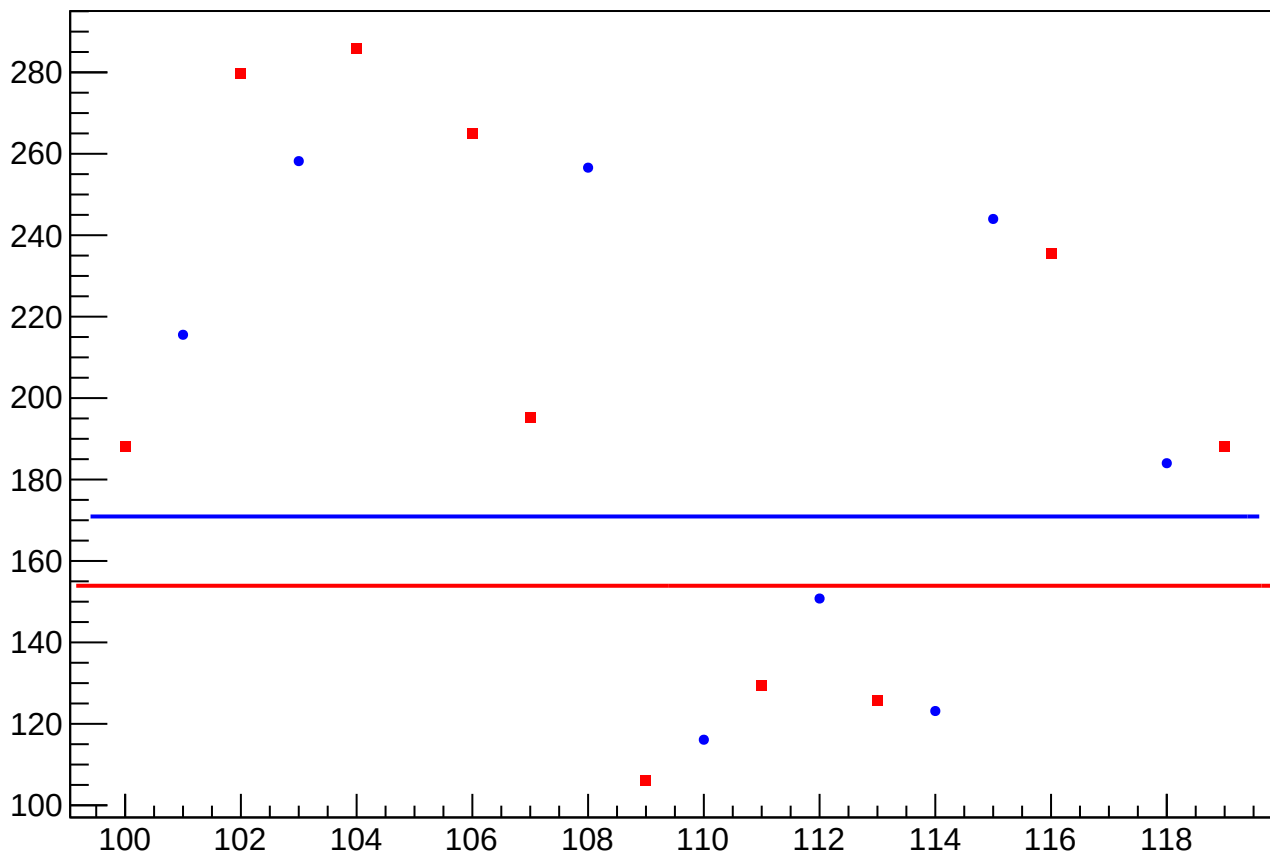
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.473+/-63.760  $\chi^2/\text{NDF}$ : 13.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_an\_ds3\_avg\_rms vs Slug



Right In: 170.927+/-0.070  $\chi^2/\text{NDF}$ : 517263.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 153.912+/-0.059  $\chi^2/\text{NDF}$ : 965903.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

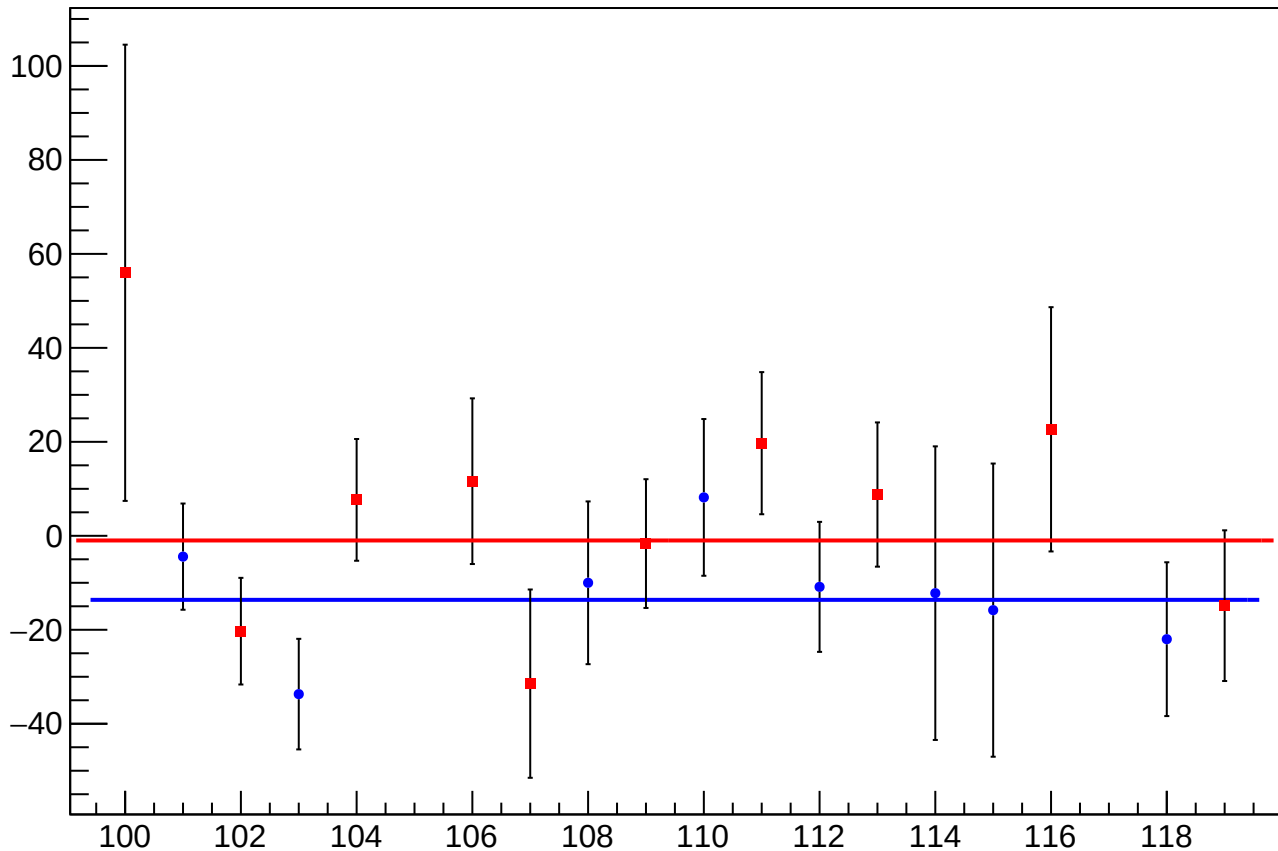
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 160.920+/-0.045  $\chi^2/\text{NDF}$ : 1517668.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bcm\_an\_us\_an\_ds3\_dd\_mean vs Slug



Right In:  $-13.630 \pm 5.506$   $\chi^2/\text{NDF}$ : 5.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.992 \pm 5.053$   $\chi^2/\text{NDF}$ : 11.4/9

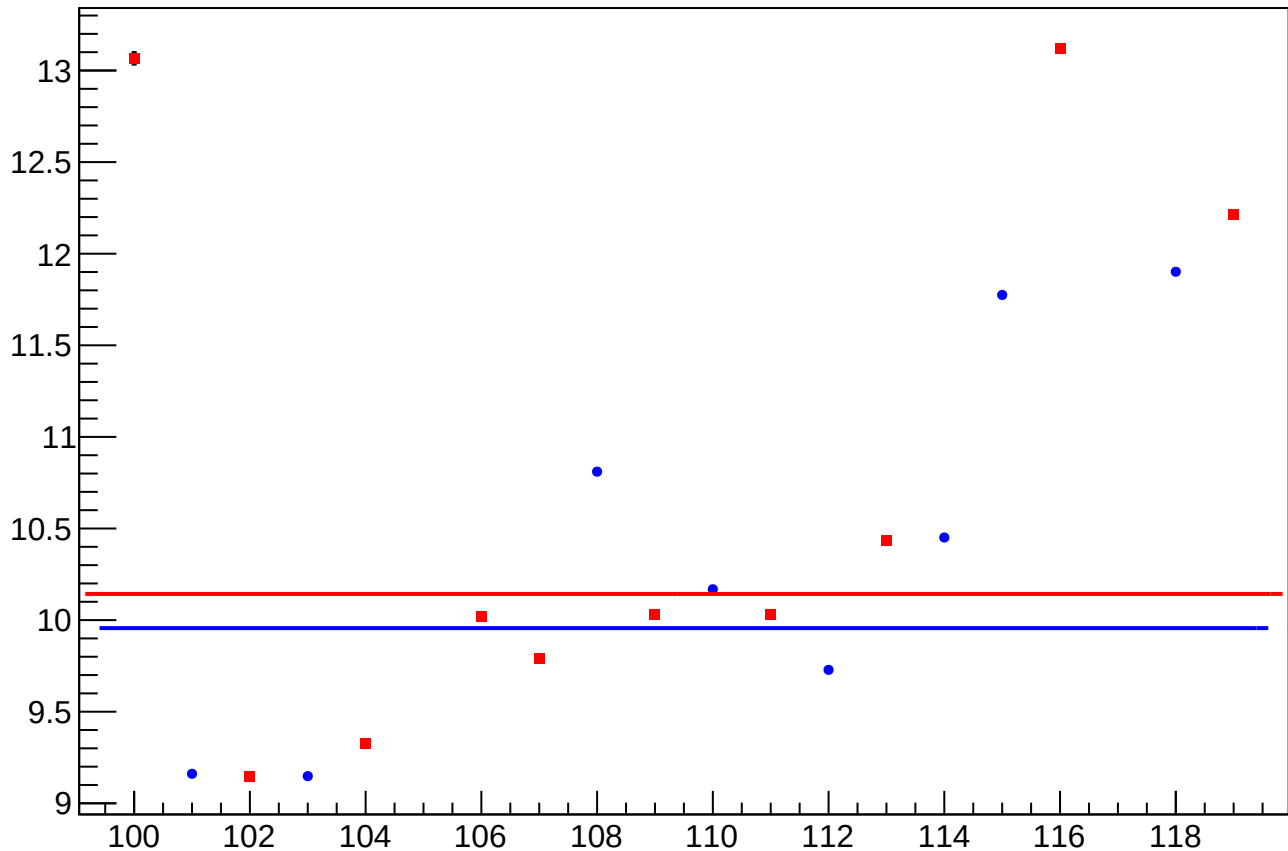
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-6.770 \pm 3.723$   $\chi^2/\text{NDF}$ : 19.9/17

- 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: 9.956+/-0.004  $\chi^2/\text{NDF}$ : 60603.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.143+/-0.004  $\chi^2/\text{NDF}$ : 91939.0/9

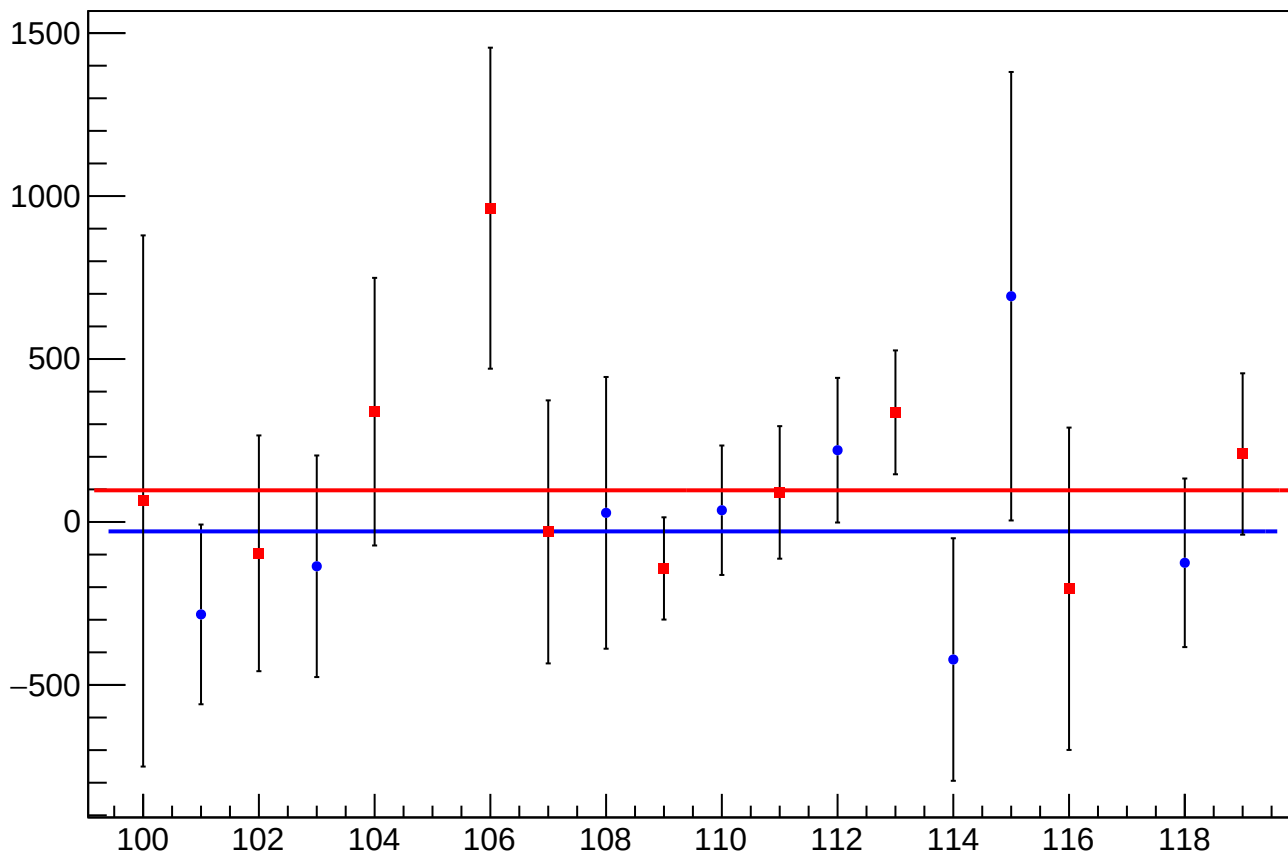
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.058+/-0.003  $\chi^2/\text{NDF}$ : 153789.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_dg\_ds\_avg\_mean vs Slug



Right In: -28.871+/-101.266  $\chi^2/\text{NDF}$ : 4.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 97.153+/-85.043  $\chi^2/\text{NDF}$ : 8.3/9

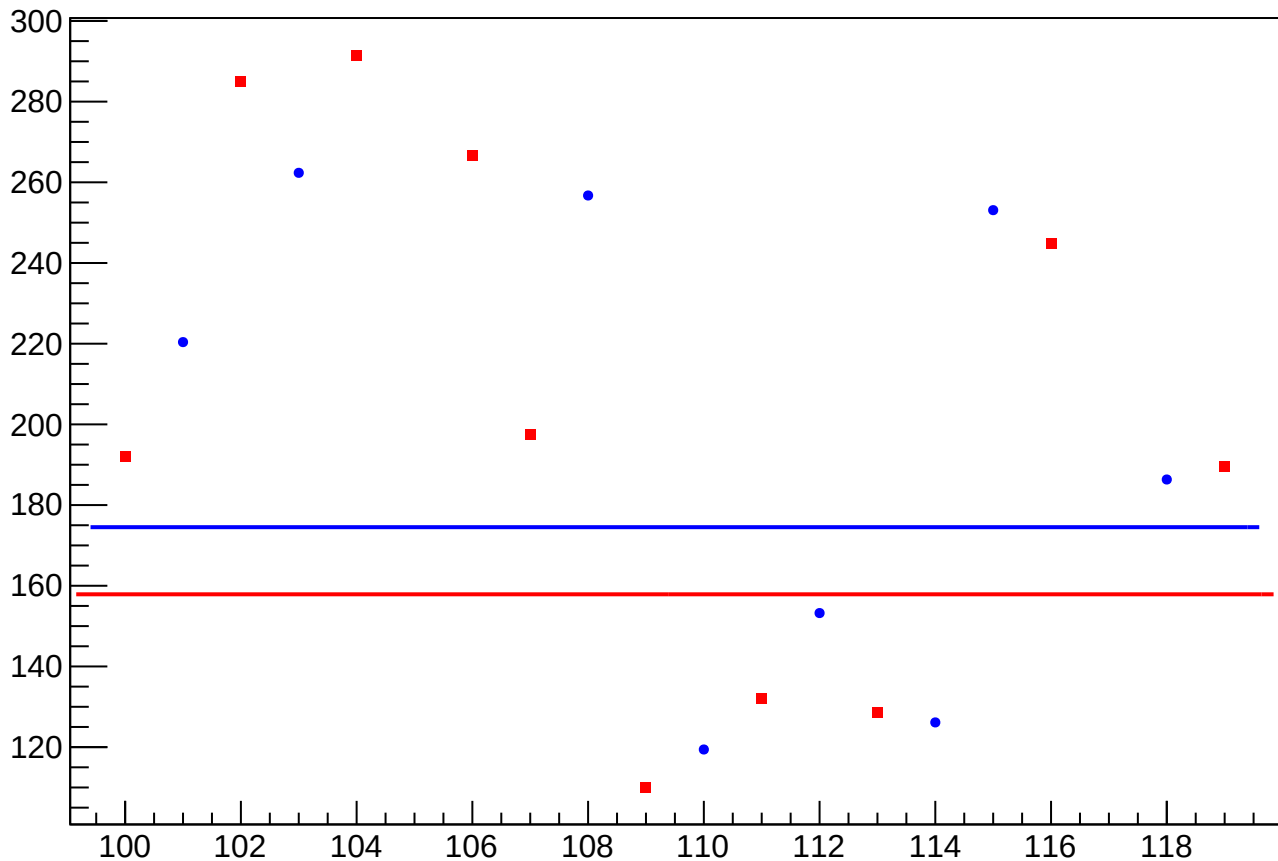
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 45.032+/-65.124  $\chi^2/\text{NDF}$ : 13.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_dg\_ds\_avg\_rms vs Slug



Right In: 174.520 $\pm$ 0.072  $\chi^2$ /NDF: 503165.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 157.882 $\pm$ 0.060  $\chi^2$ /NDF: 938865.1/9

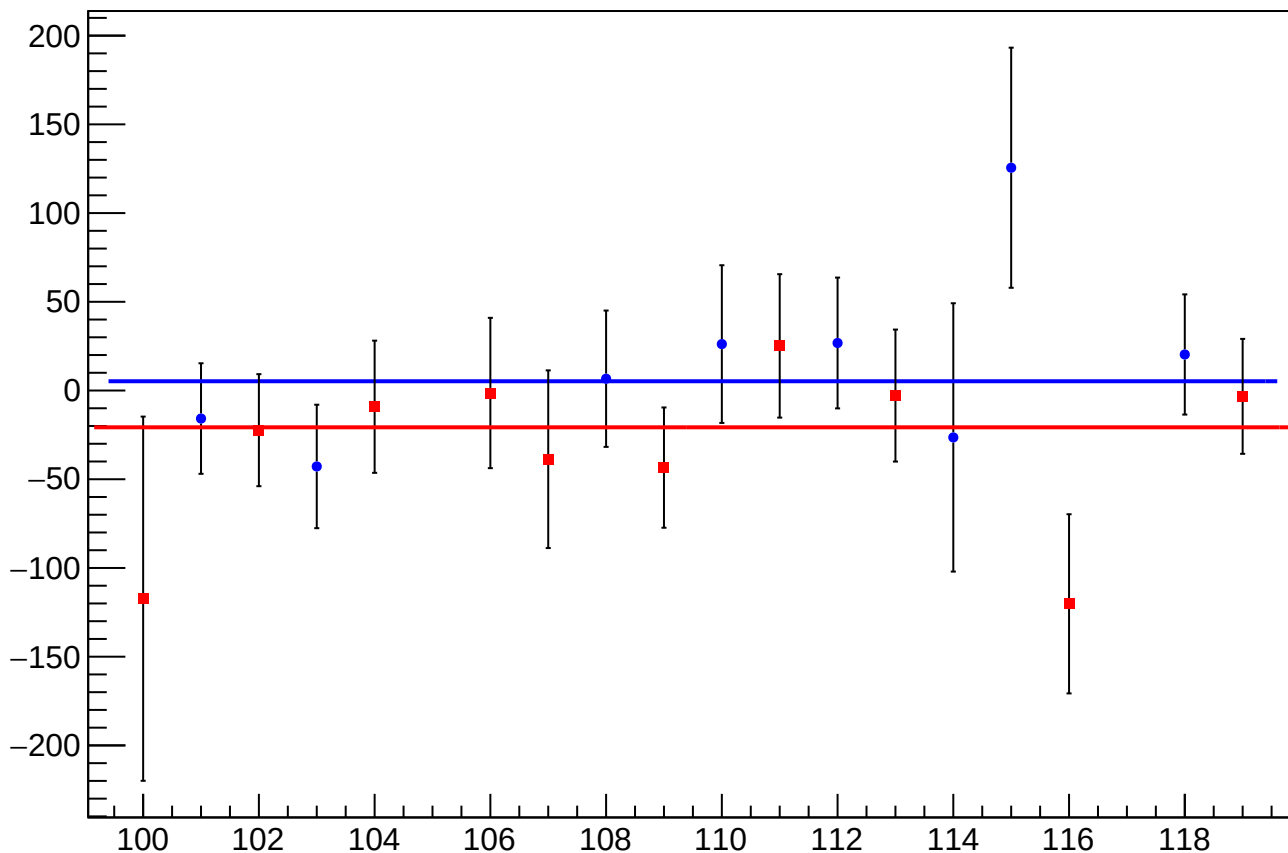
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 164.764 $\pm$ 0.046  $\chi^2$ /NDF: 1473690.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_dg\_ds\_dd\_mean vs Slug



Right In: 5.229+/-14.083  $\chi^2$ /NDF: 6.5/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -20.729+/-12.572  $\chi^2$ /NDF: 7.5/9

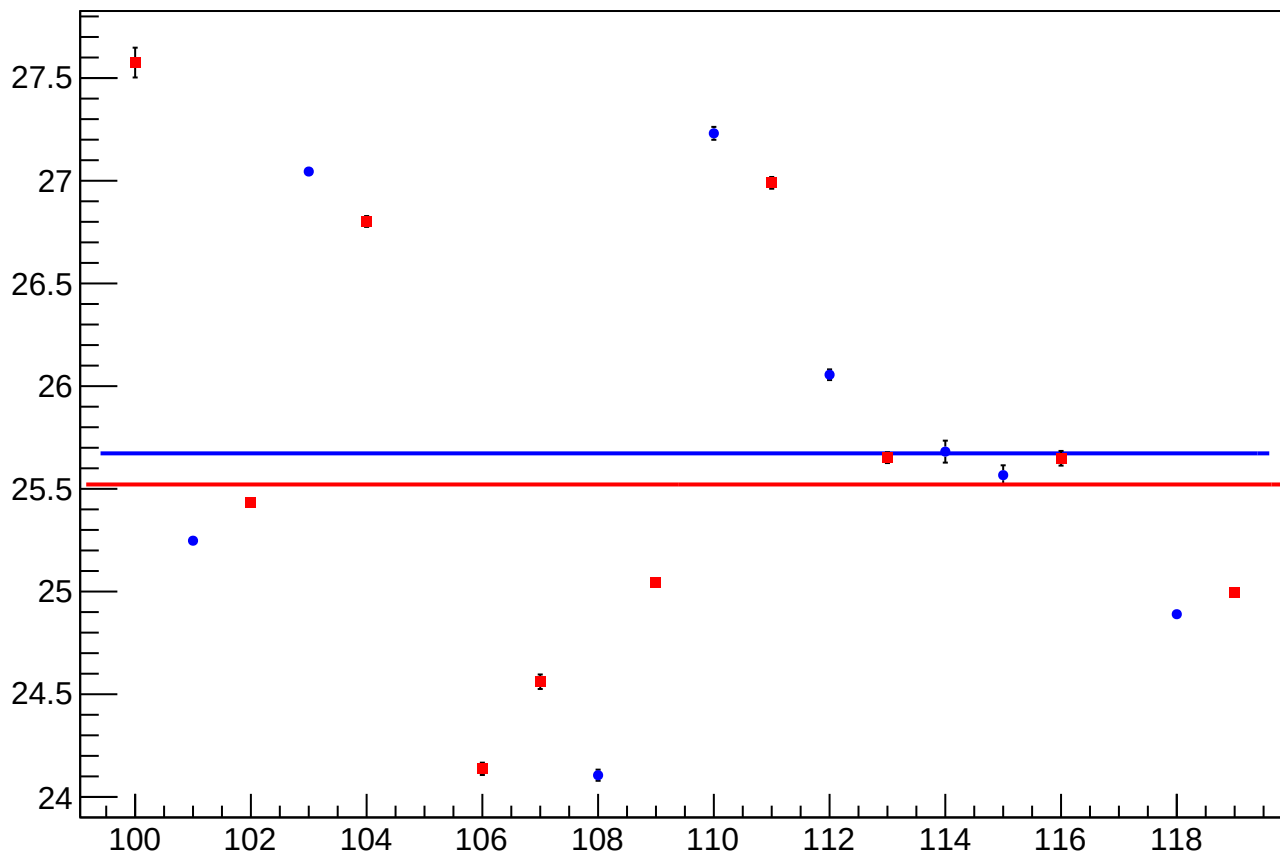
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -9.217+/-9.378  $\chi^2$ /NDF: 15.8/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_dg\_ds\_dd\_rms vs Slug



Right In: 25.673+/-0.010  $\chi^2/\text{NDF}$ : 10560.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.521+/-0.009  $\chi^2/\text{NDF}$ : 9657.6/9

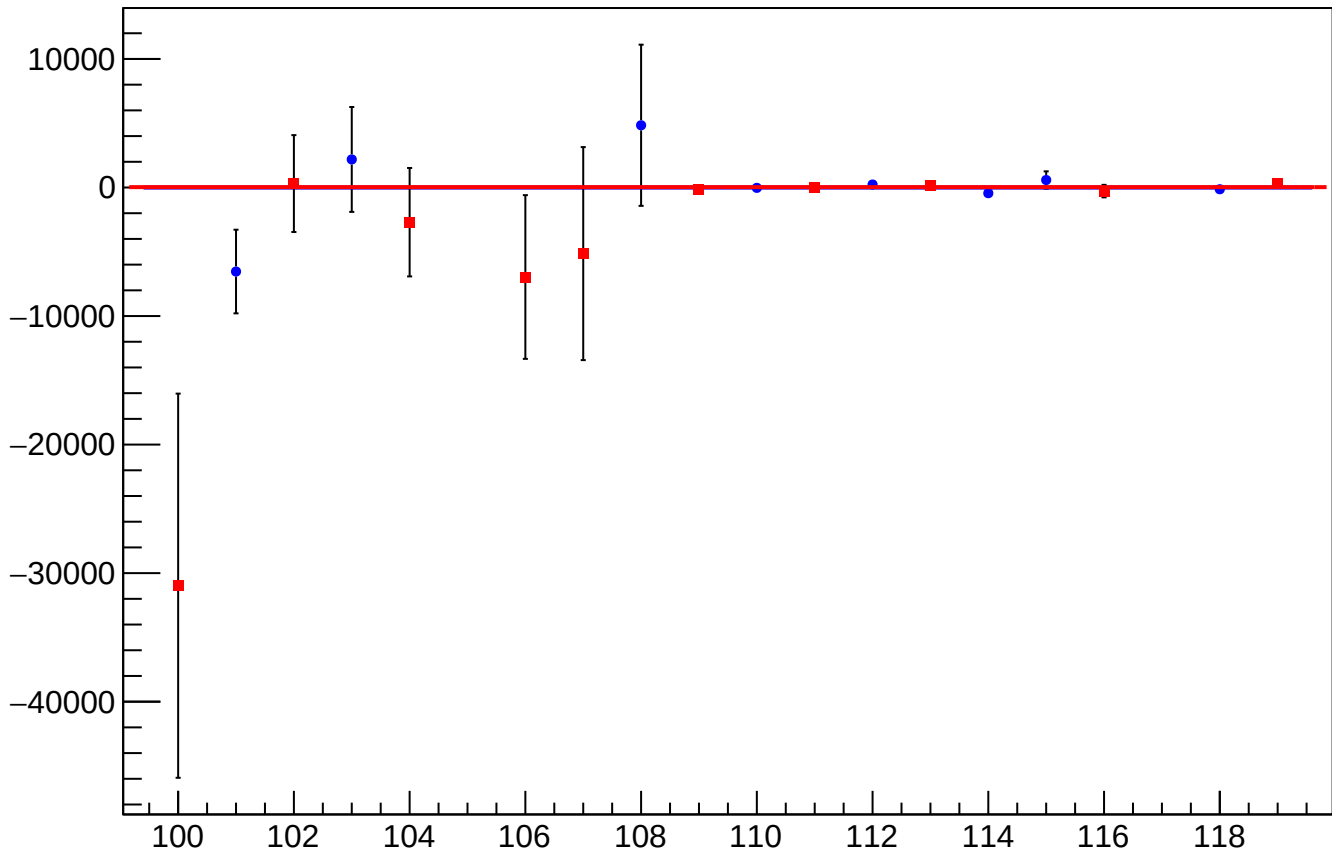
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.588+/-0.007  $\chi^2/\text{NDF}$ : 20346.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_cav4cQ\_an\_ds\_avg\_mean vs Slug



Right In: -4.441+/-117.407  $\chi^2/\text{NDF}$ : 8.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.873+/-101.481  $\chi^2/\text{NDF}$ : 9.3/9

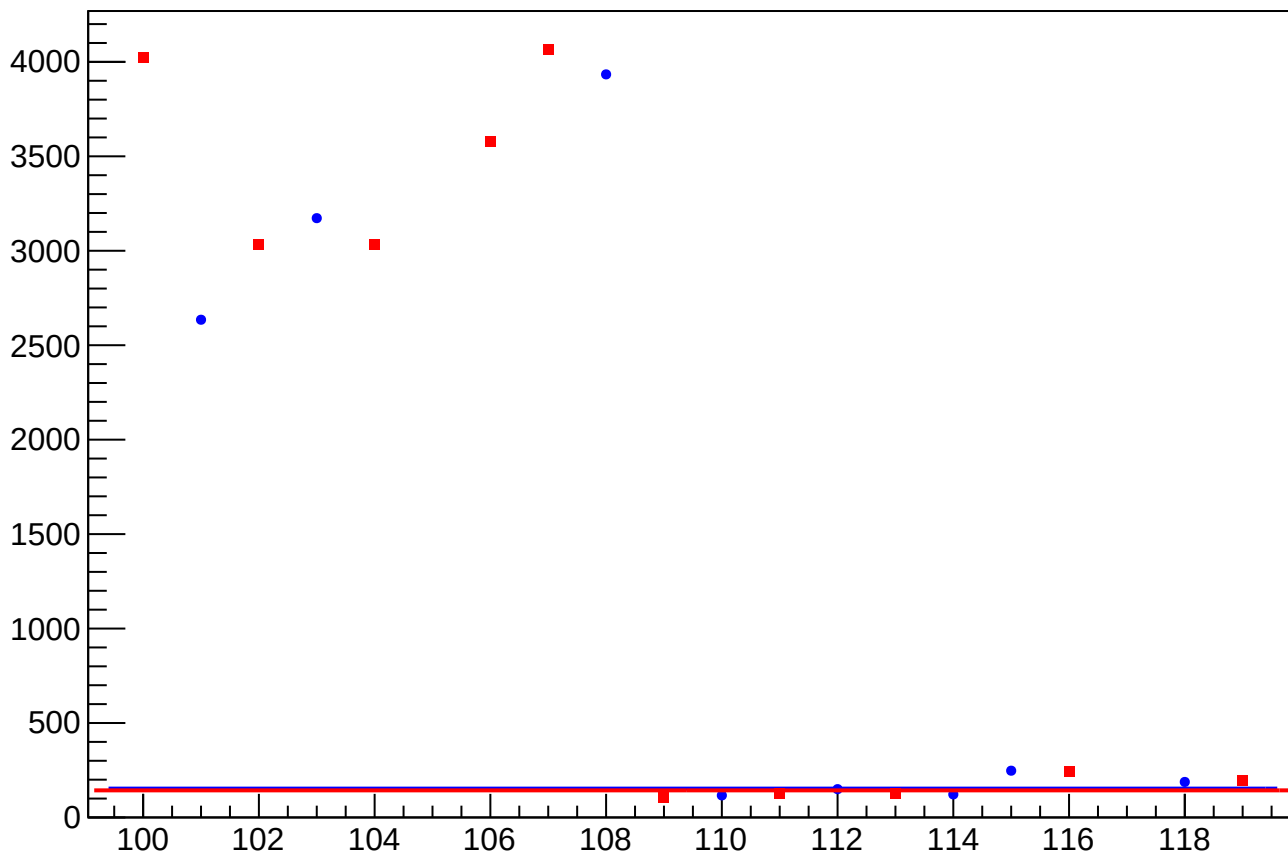
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14.627+/-76.776  $\chi^2/\text{NDF}$ : 17.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_cav4cQ\_an\_ds\_avg\_rms vs Slug



Right In: 152.636 $\pm$ 0.083  $\chi^2$ /NDF: 3147139.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 143.431 $\pm$ 0.072  $\chi^2$ /NDF: 3538251.5/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

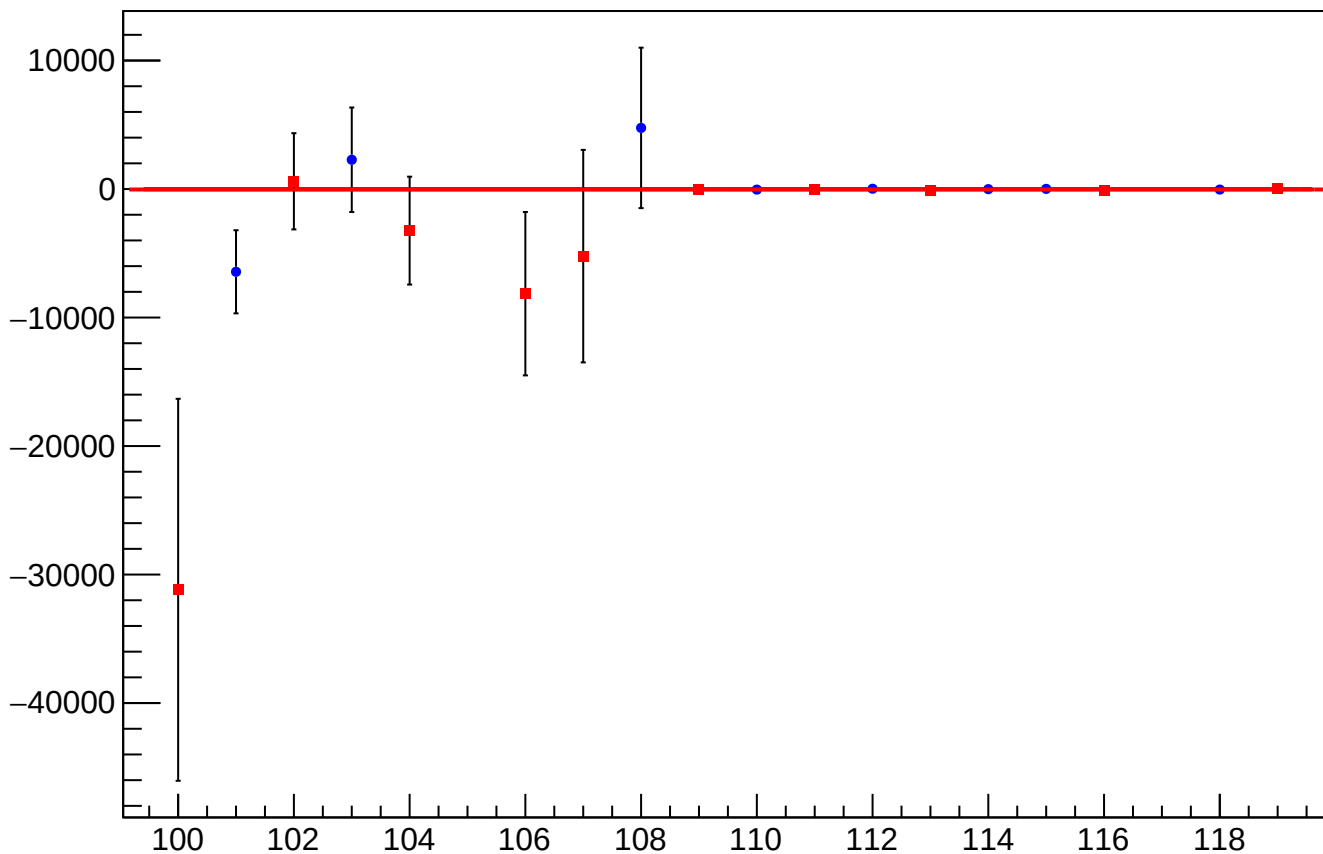
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 147.367 $\pm$ 0.054  $\chi^2$ /NDF: 6692428.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_bcm\_cav4cQ\_an\_ds\_dd\_mean vs Slug



Right In: -13.866 $\pm$ 21.419  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -34.595 $\pm$ 19.721  $\chi^2$ /NDF: 15.8/9

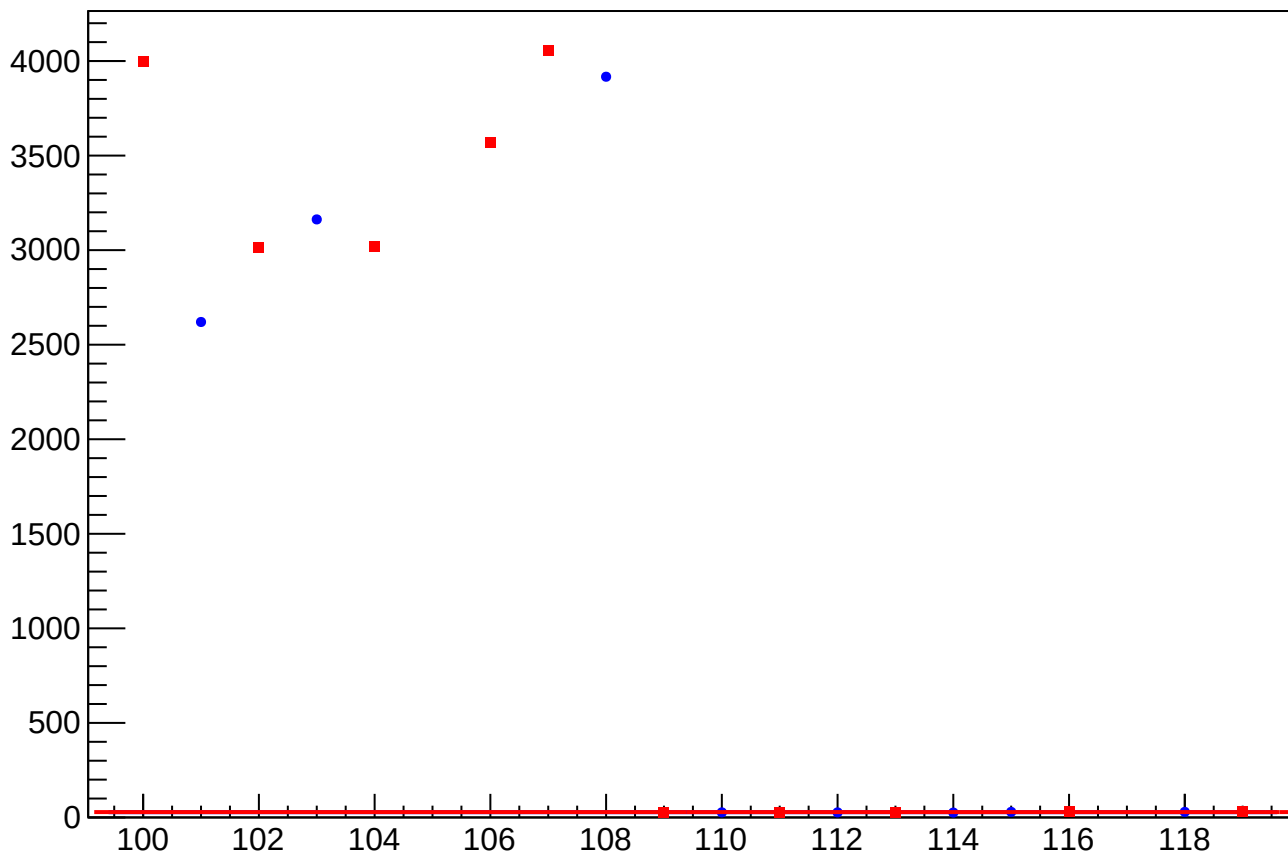
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -25.085 $\pm$ 14.508  $\chi^2$ /NDF: 23.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_cav4cQ\_an\_ds\_dd\_rms vs Slug



Right In: 27.919 $\pm$ 0.015  $\chi^2$ /NDF: 3256690.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28.369 $\pm$ 0.014  $\chi^2$ /NDF: 3545736.0/9

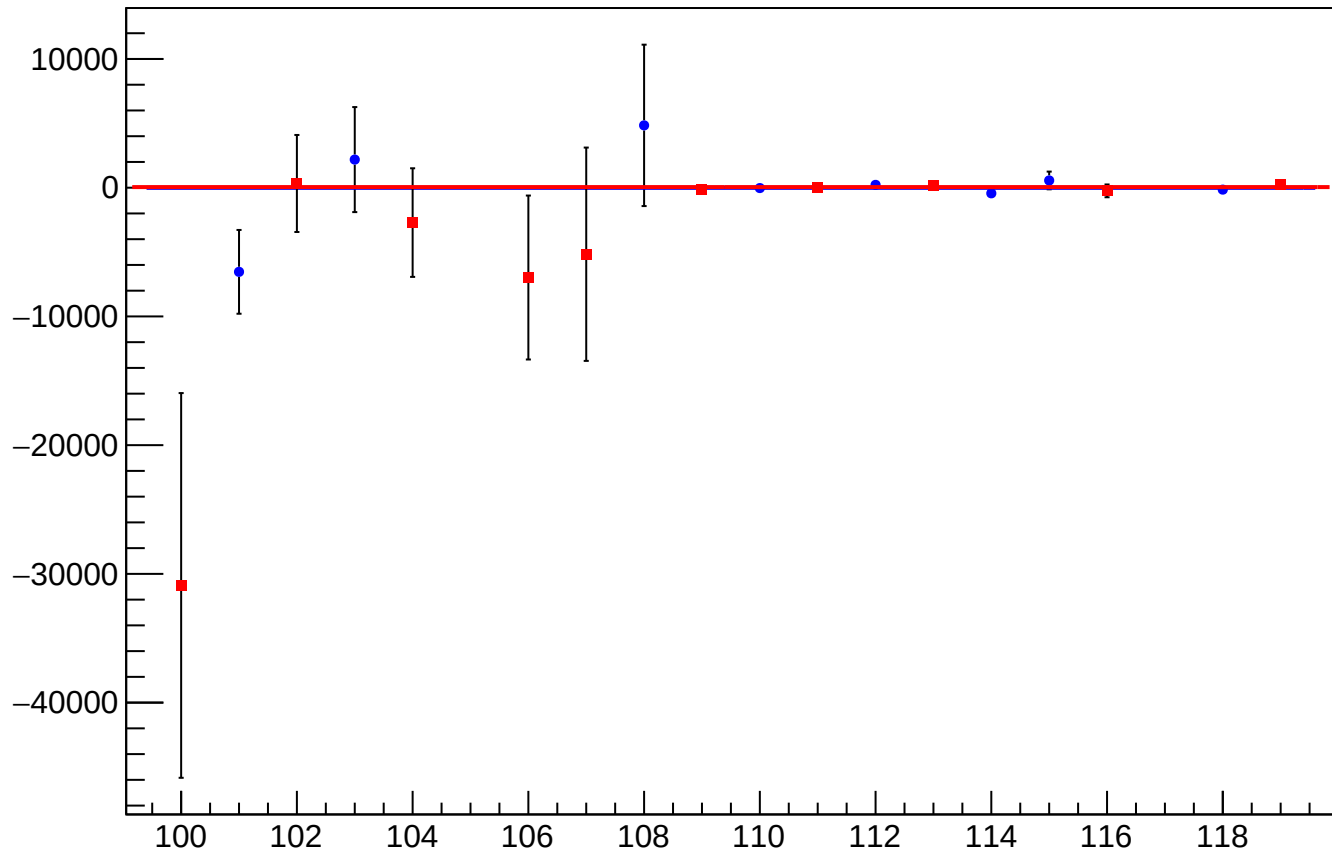
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28.162 $\pm$ 0.010  $\chi^2$ /NDF: 6802904.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_cav4cQ\_dg\_ds\_avg\_mean vs Slug



Right In:  $-10.516 \pm 118.437$   $\chi^2/\text{NDF}$ : 8.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $47.096 \pm 102.477$   $\chi^2/\text{NDF}$ : 9.2/9

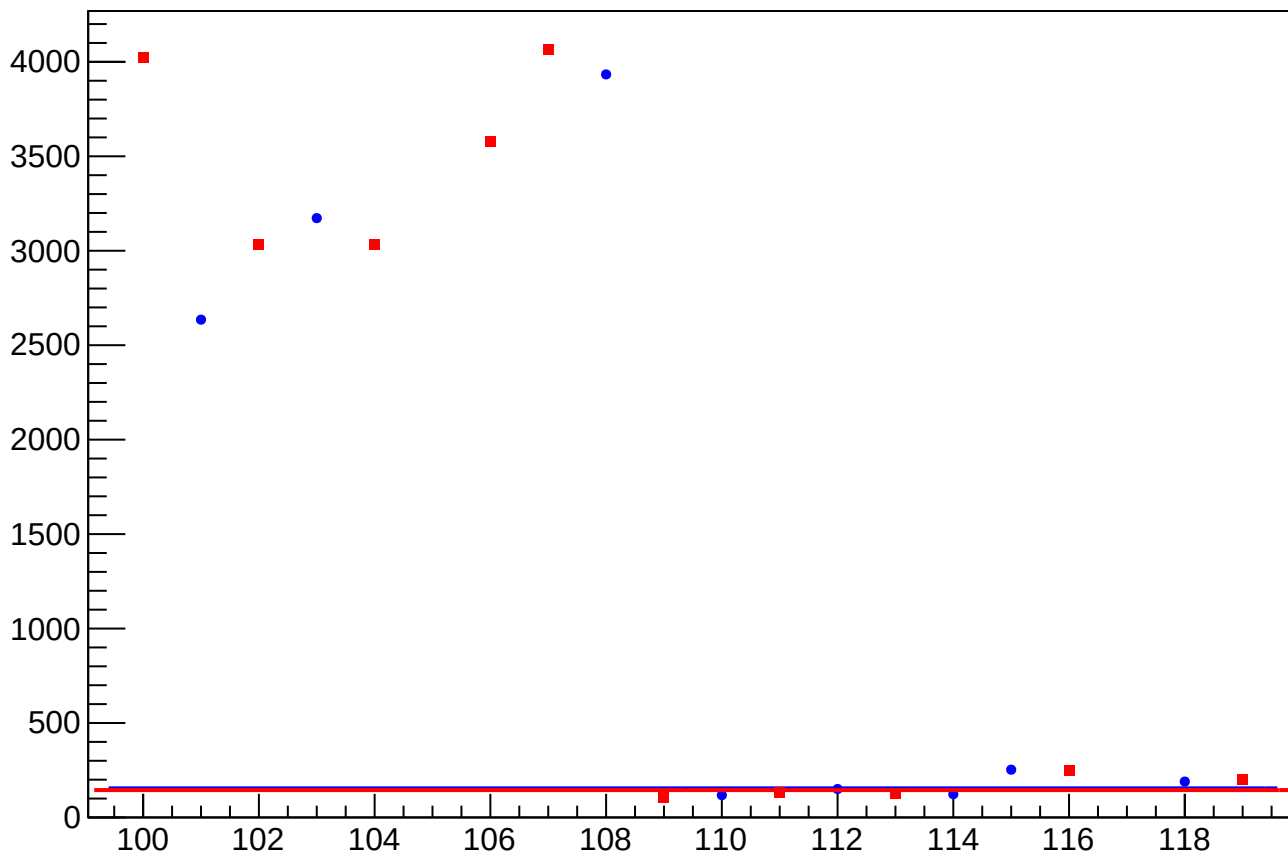
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $22.430 \pm 77.495$   $\chi^2/\text{NDF}$ : 17.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_cav4cQ\_dg\_ds\_avg\_rms vs Slug



Right In: 154.040 $\pm$ 0.084  $\chi^2$ /NDF: 3145823.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 144.888 $\pm$ 0.072  $\chi^2$ /NDF: 3539009.5/9

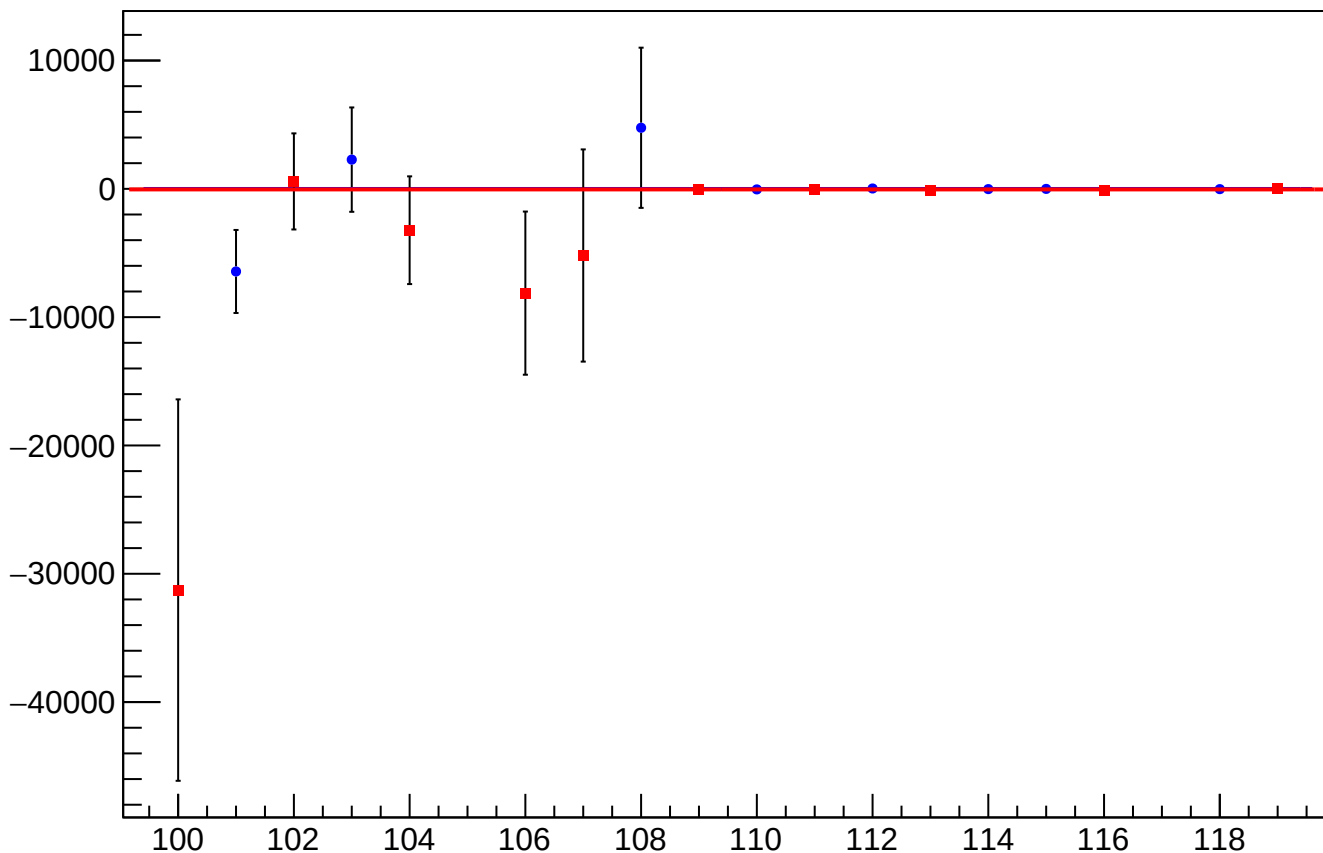
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 148.806 $\pm$ 0.055  $\chi^2$ /NDF: 6691662.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_dg\_ds\_dd\_mean vs Slug



Right In: -11.150+/-24.309  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -44.374+/-22.092  $\chi^2/\text{NDF}$ : 19.6/9

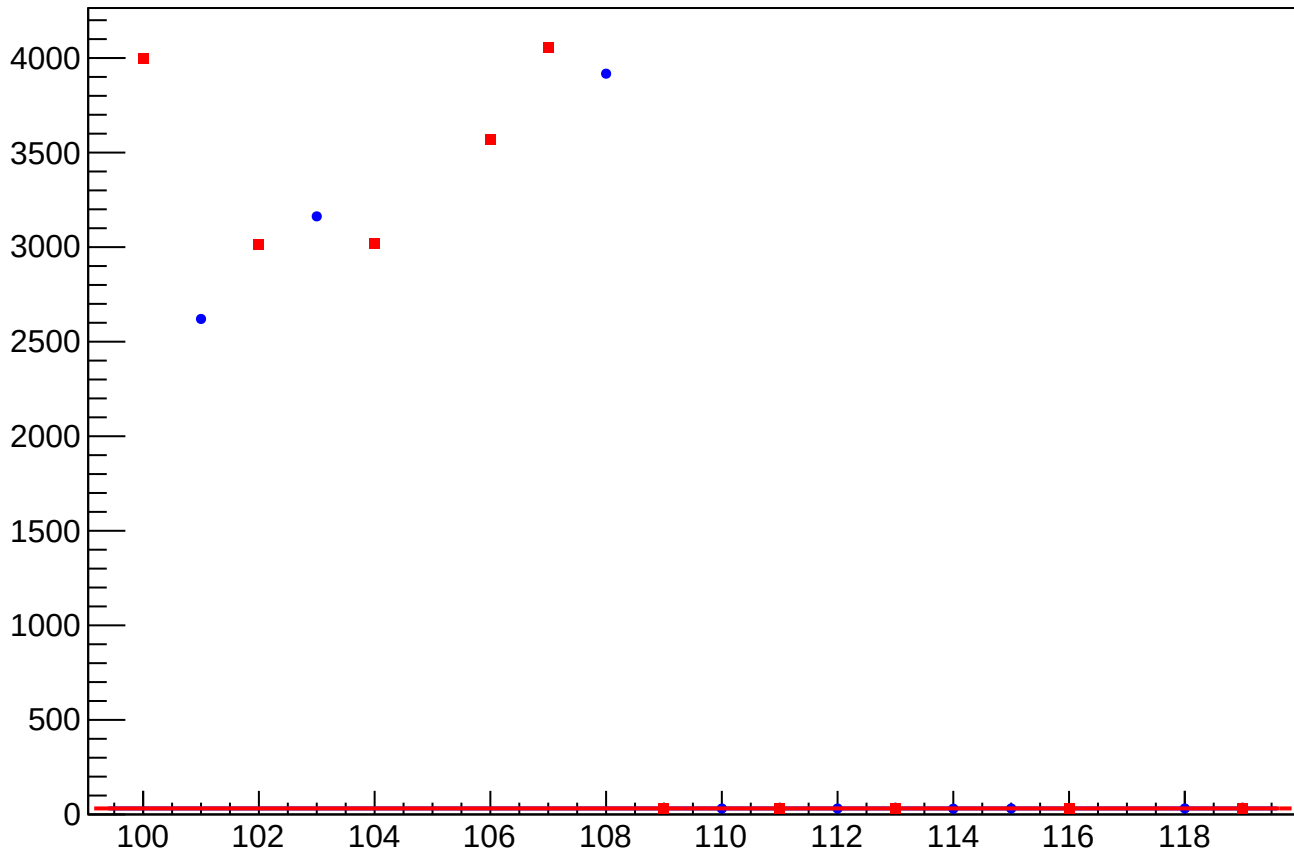
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -29.346+/-16.349  $\chi^2/\text{NDF}$ : 26.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_cav4cQ\_dg\_ds\_dd\_rms vs Slug



Right In: 31.771+/-0.017  $\chi^2/\text{NDF}$ : 3241141.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.881+/-0.016  $\chi^2/\text{NDF}$ : 3522127.8/9

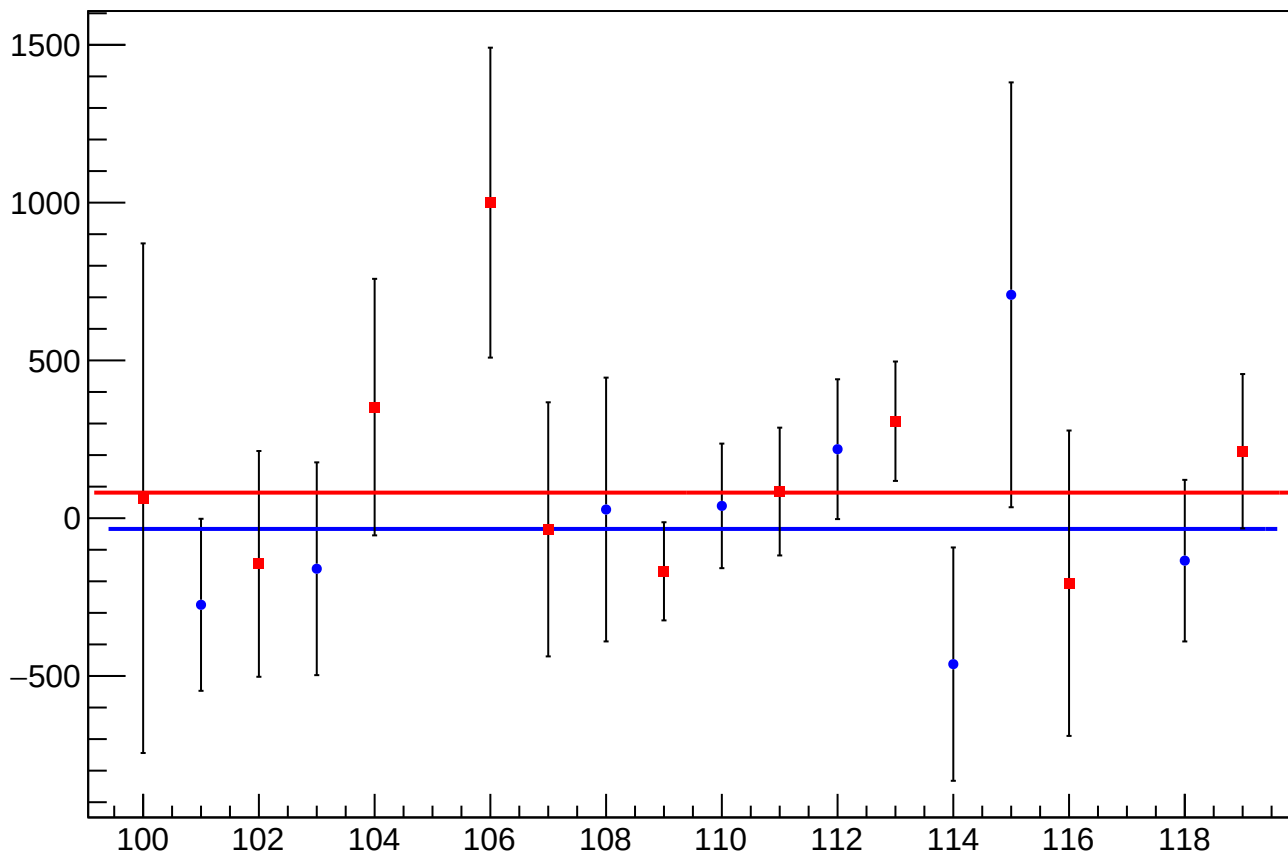
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.831+/-0.012  $\chi^2/\text{NDF}$ : 6763291.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_an\_us\_avg\_mean vs Slug



Right In: -34.019+/-100.601  $\chi^2/\text{NDF}$ : 5.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 81.055+/-84.402  $\chi^2/\text{NDF}$ : 9.1/9

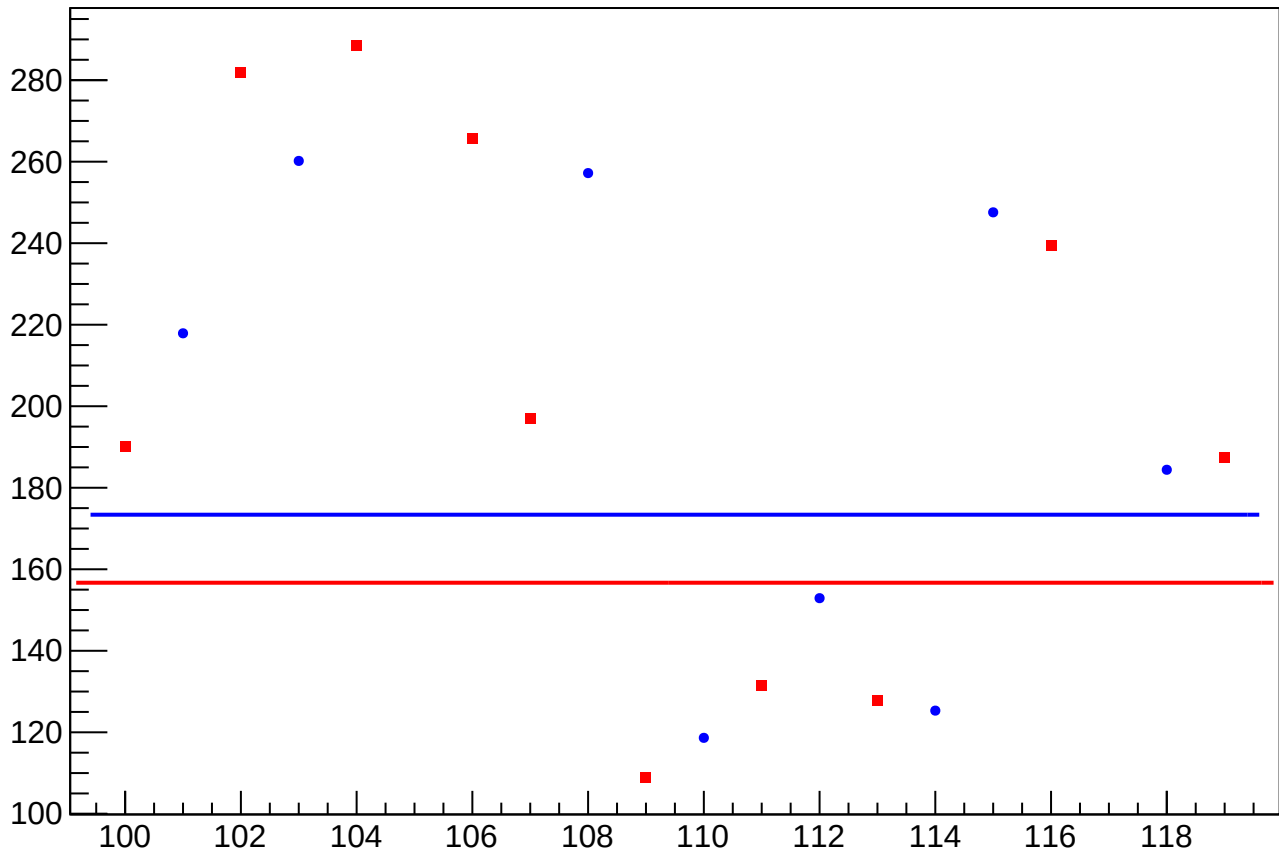
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.517+/-64.660  $\chi^2/\text{NDF}$ : 14.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_an\_us\_avg\_rms vs Slug



Right In: 173.387 $\pm$ 0.071  $\chi^2$ /NDF: 499076.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 156.698 $\pm$ 0.060  $\chi^2$ /NDF: 932159.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

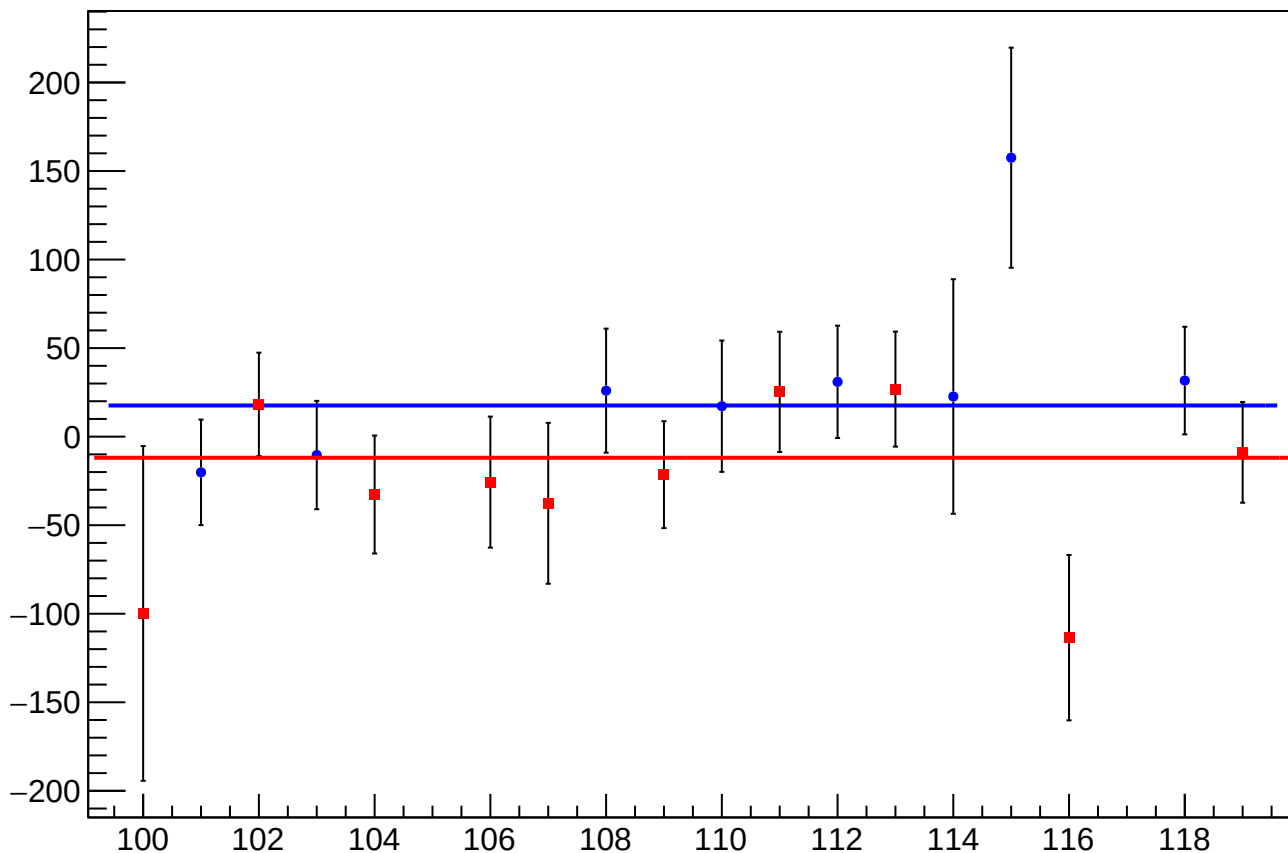
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 163.592 $\pm$ 0.046  $\chi^2$ /NDF: 1463540.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bcm\_dg\_us\_an\_us\_dd\_mean vs Slug



Right In: 17.600 $\pm$ 12.597  $\chi^2$ /NDF: 8.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -11.916 $\pm$ 11.174  $\chi^2$ /NDF: 10.3/9

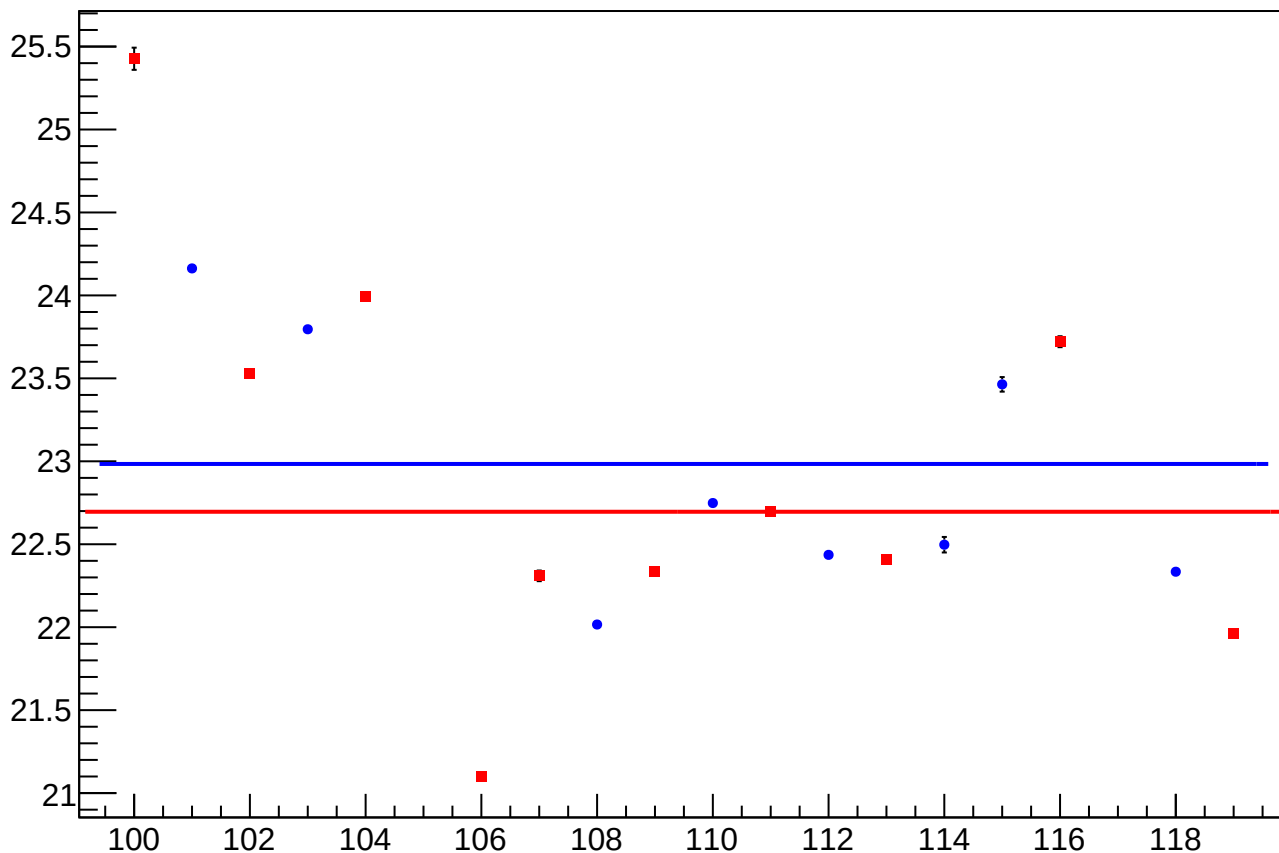
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.081 $\pm$ 8.359  $\chi^2$ /NDF: 21.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_an\_us\_dd\_rms vs Slug



Right In: 22.984 $\pm$ 0.009  $\chi^2$ /NDF: 7885.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.696 $\pm$ 0.008  $\chi^2$ /NDF: 12929.5/9

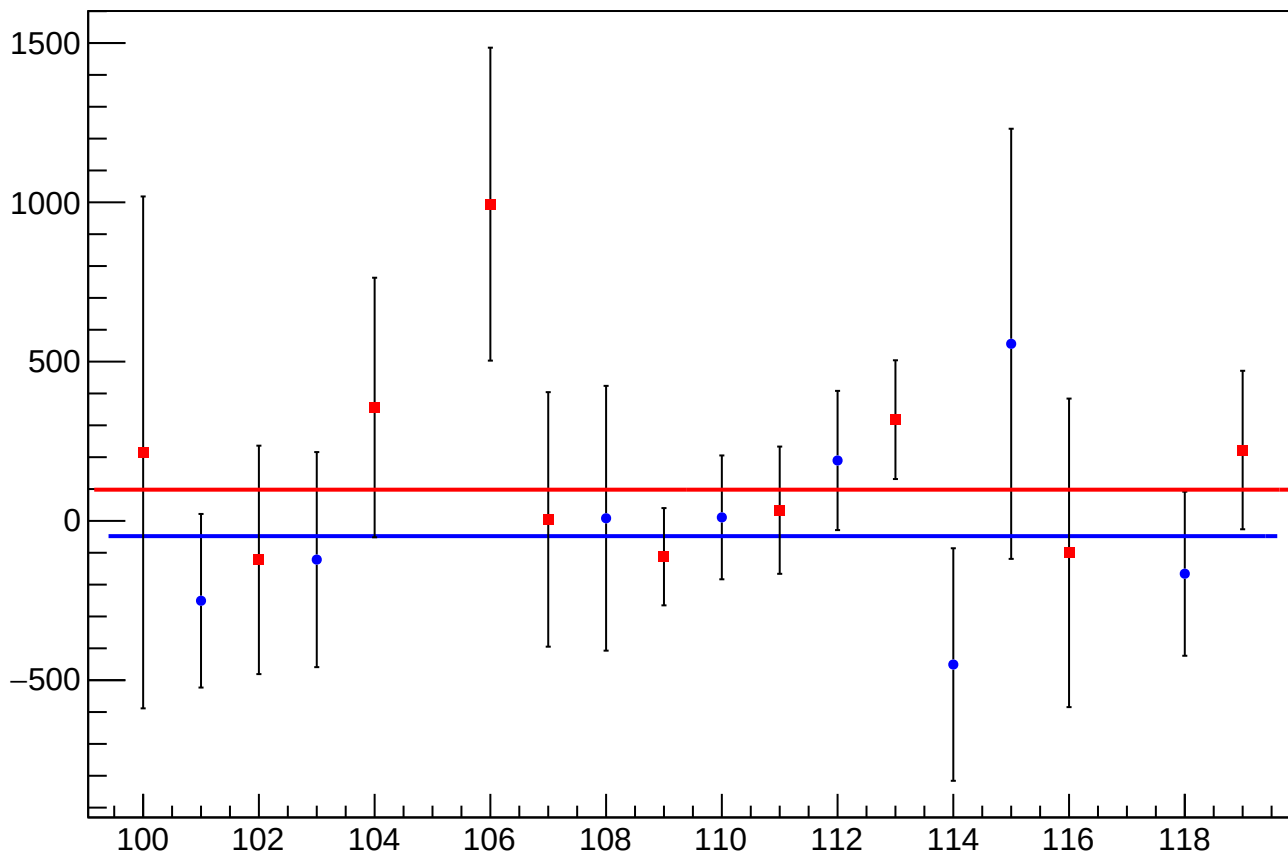
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 22.823 $\pm$ 0.006  $\chi^2$ /NDF: 21400.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_ds\_an\_us\_avg\_mean vs Slug



Right In: -47.827 $\pm$ 99.885  $\chi^2$ /NDF: 4.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 98.008 $\pm$ 83.634  $\chi^2$ /NDF: 8.0/9

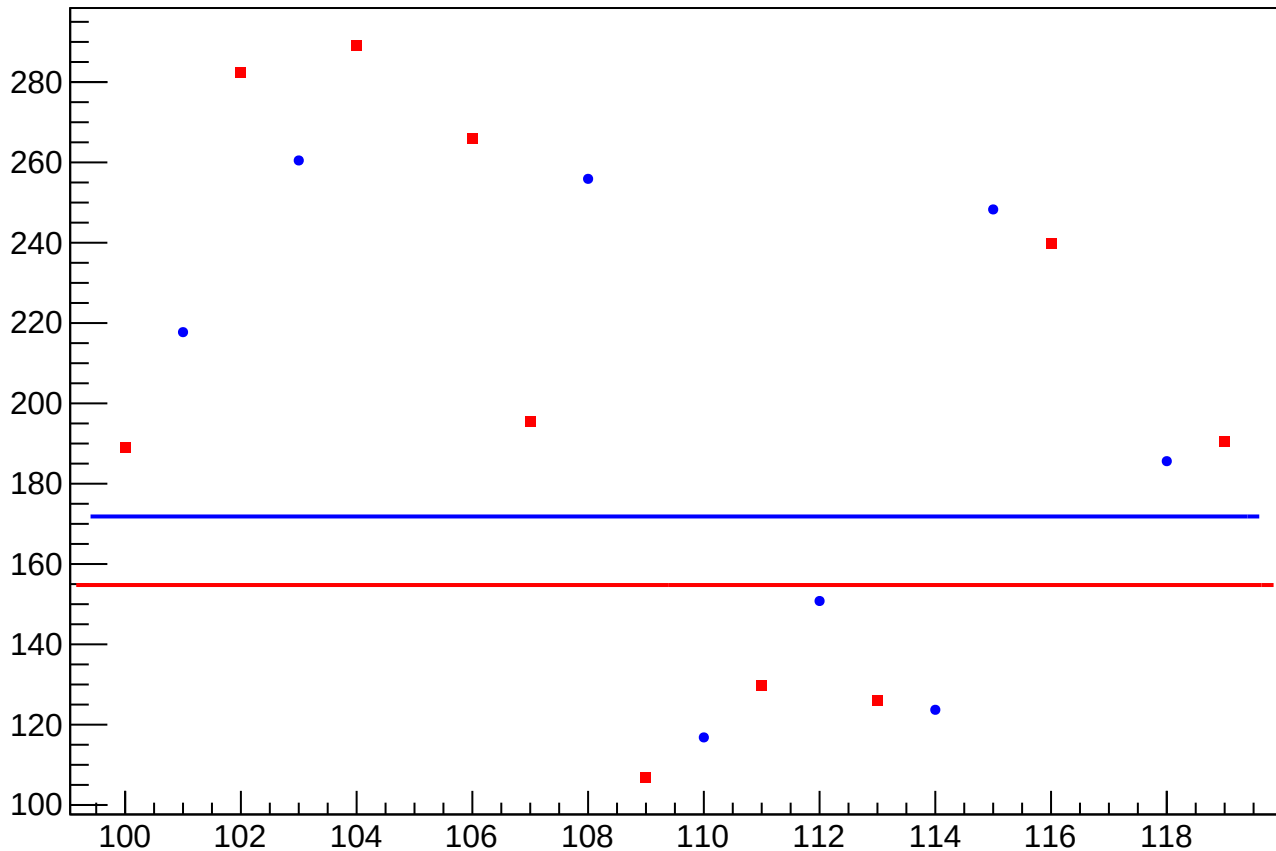
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.904 $\pm$ 64.124  $\chi^2$ /NDF: 13.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_ds\_an\_us\_avg\_rms vs Slug



Right In: 171.839+/-0.071  $\chi^2/\text{NDF}$ : 521461.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 154.770+/-0.059  $\chi^2/\text{NDF}$ : 976180.1/9

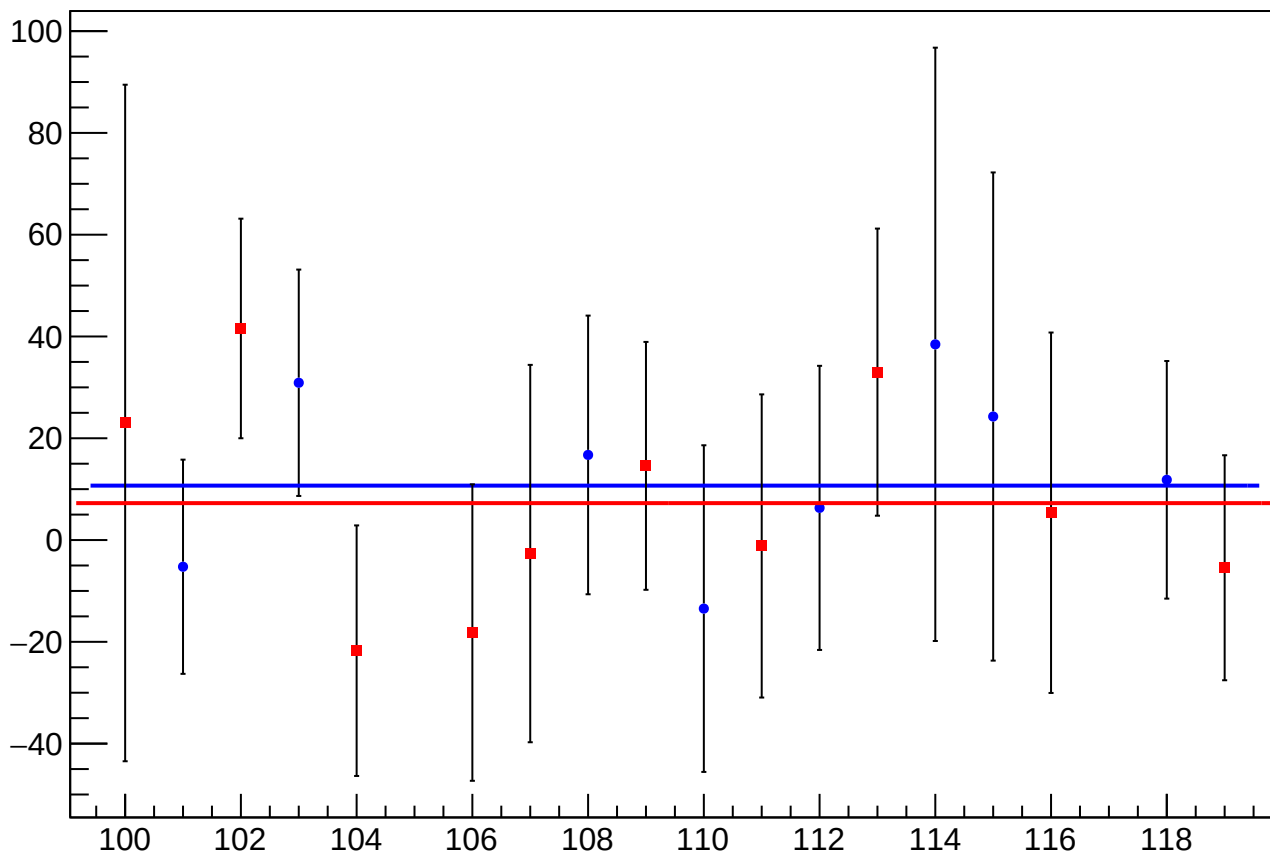
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 161.805+/-0.045  $\chi^2/\text{NDF}$ : 1531977.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_us\_dd\_mean vs Slug



Right In: 10.694 $\pm$ 9.791  $\chi^2$ /NDF: 2.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7.254 $\pm$ 8.823  $\chi^2$ /NDF: 6.1/9

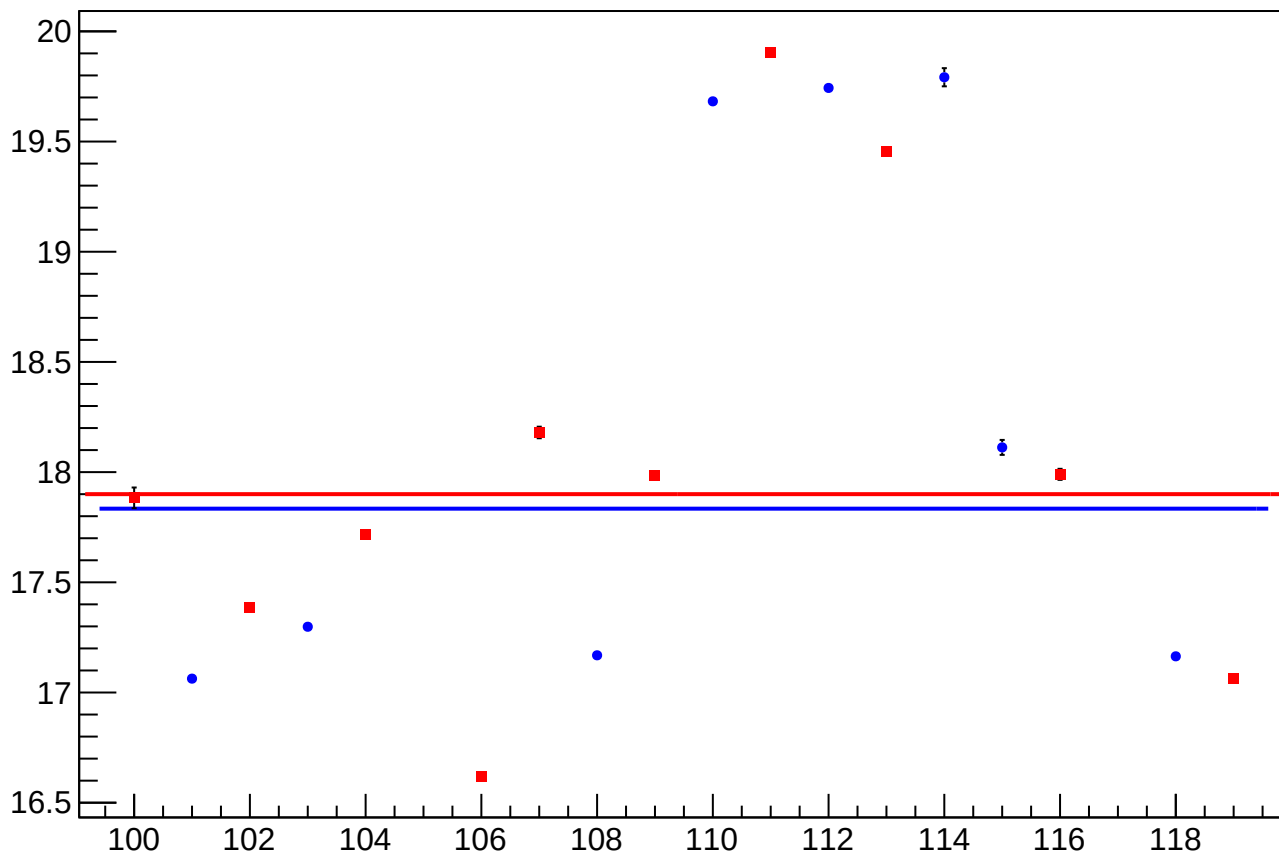
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8.795 $\pm$ 6.554  $\chi^2$ /NDF: 8.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_ds\_an\_us\_dd\_rms vs Slug



Right In: 17.834+/-0.007  $\chi^2/\text{NDF}$ : 24986.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.900+/-0.006  $\chi^2/\text{NDF}$ : 23269.4/9

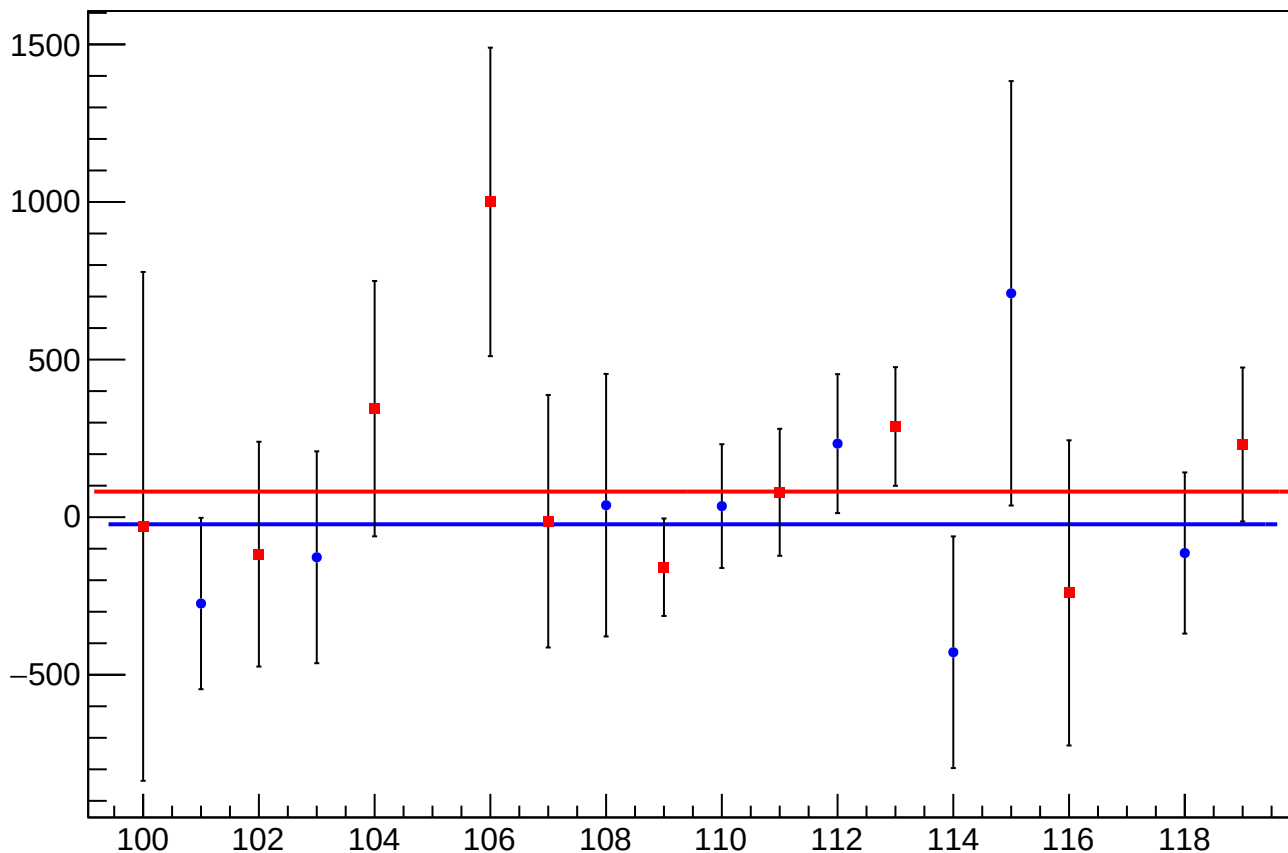
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.871+/-0.005  $\chi^2/\text{NDF}$ : 48306.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_an\_ds\_avg\_mean vs Slug



Right In: -22.539 $\pm$ 100.211  $\chi^2$ /NDF: 4.9/7

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: 81.236 $\pm$ -84.038  $\chi^2$ /NDF: 8.8/9

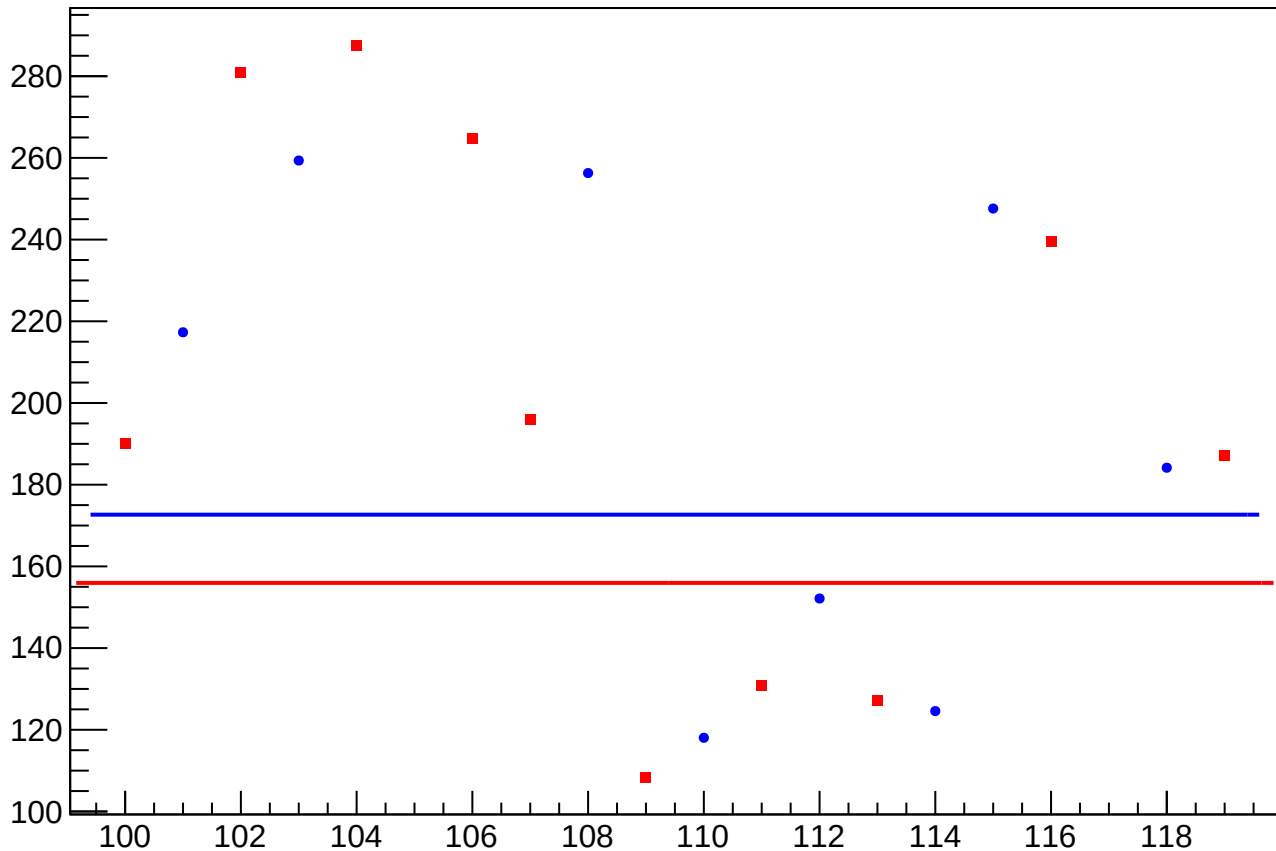
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 38.388 $\pm$ -64.393  $\chi^2$ /NDF: 14.3/17

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_an\_ds\_avg\_rms vs Slug



Right In: 172.659 $\pm$ 0.071  $\chi^2$ /NDF: 502840.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 155.959 $\pm$ 0.059  $\chi^2$ /NDF: 937622.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

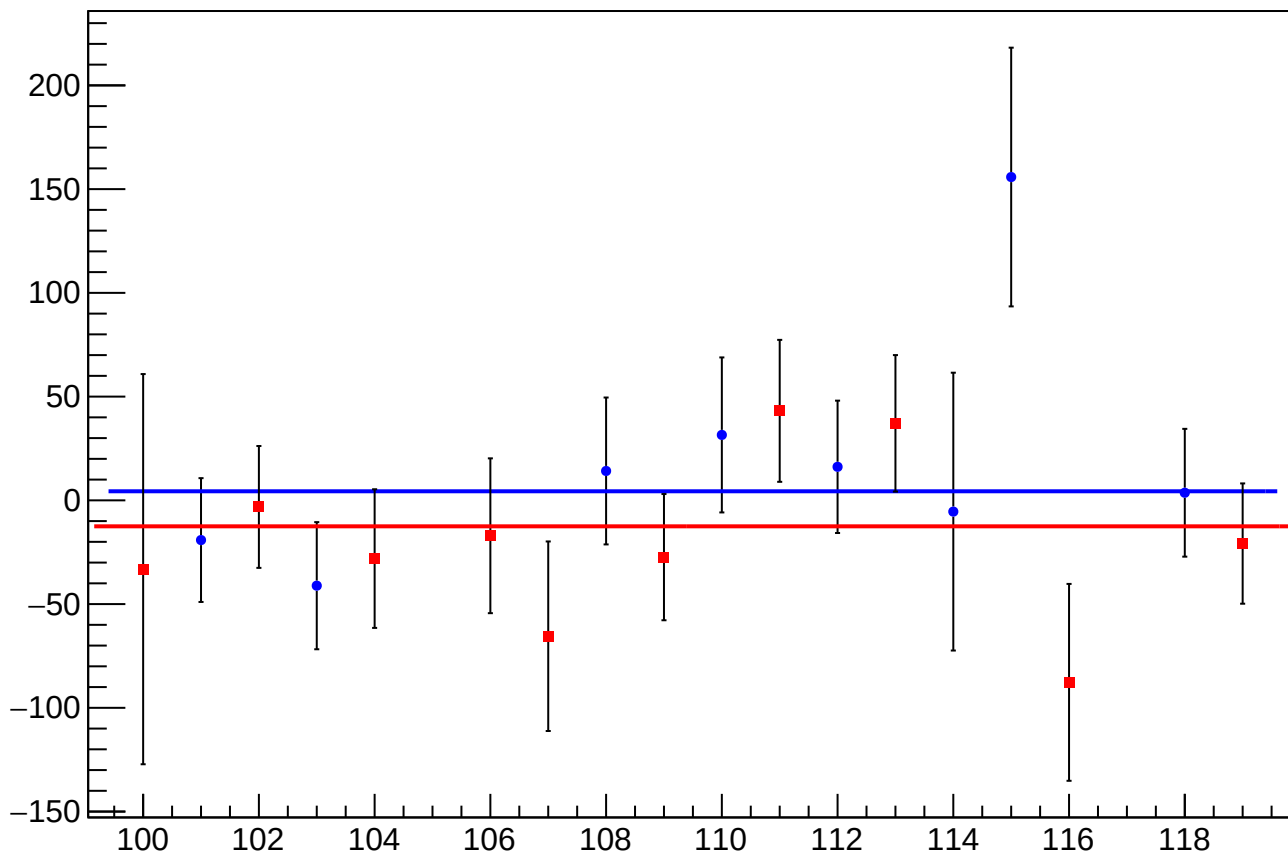
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 162.854 $\pm$ 0.046  $\chi^2$ /NDF: 1473073.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bcm\_dg\_us\_an\_ds\_dd\_mean vs Slug



Right In: 4.370 $\pm$ 12.679  $\chi^2$ /NDF: 9.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -12.522 $\pm$ 11.280  $\chi^2$ /NDF: 9.5/9

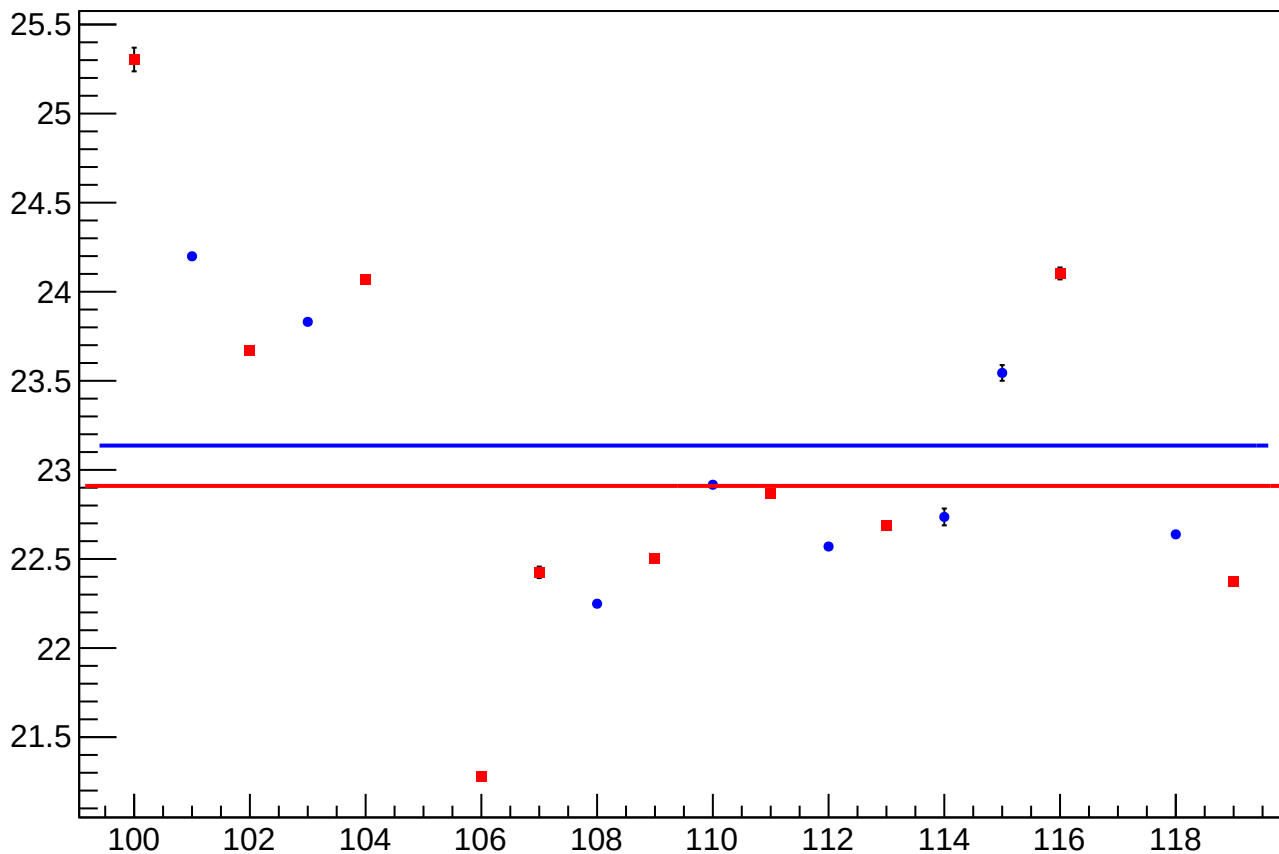
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -5.060 $\pm$ 8.427  $\chi^2$ /NDF: 20.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_an\_ds\_dd\_rms vs Slug



Right In: 23.137+/-0.009  $\chi^2/\text{NDF}$ : 6201.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.910+/-0.008  $\chi^2/\text{NDF}$ : 11467.2/9

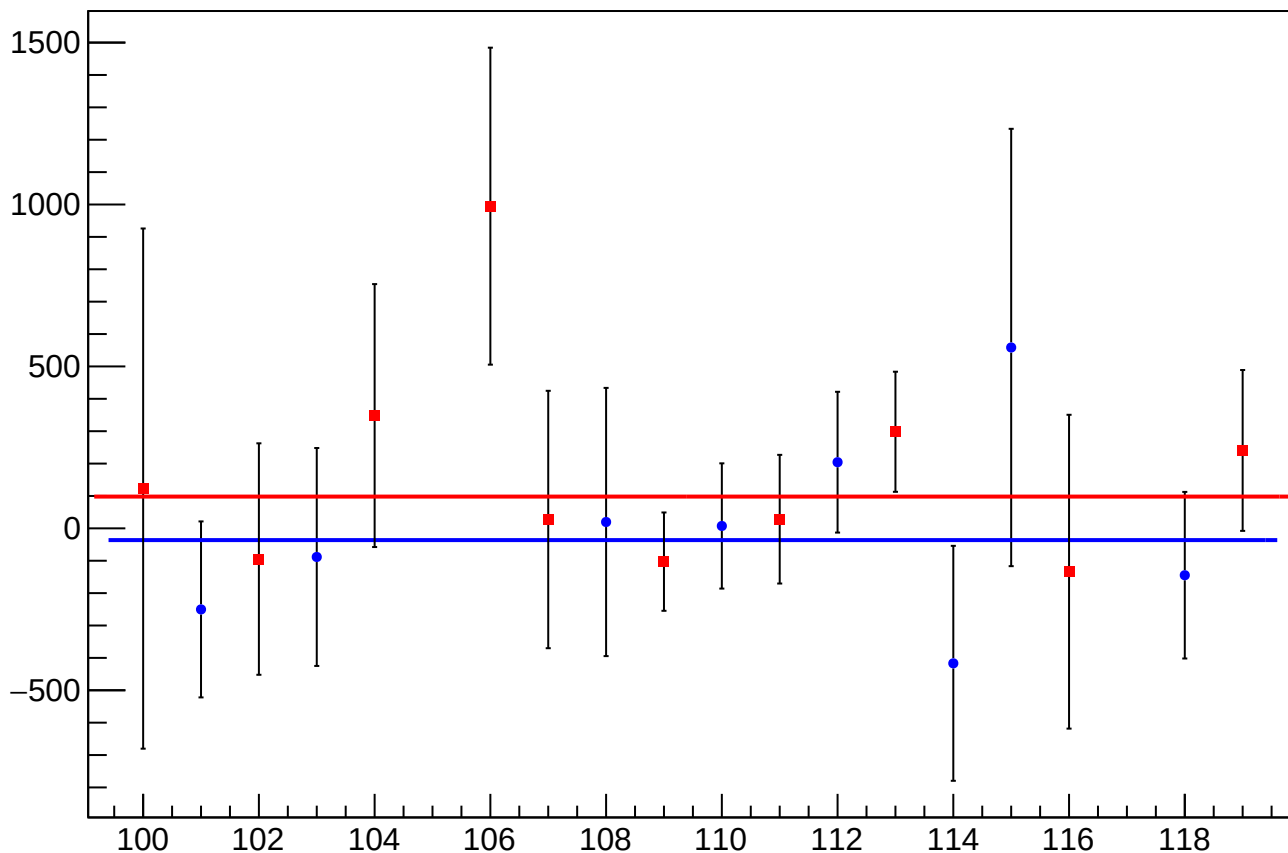
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.010+/-0.006  $\chi^2/\text{NDF}$ : 18024.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_ds\_an\_ds\_avg\_mean vs Slug



Right In: -36.270+/-99.491  $\chi^2/\text{NDF}$ : 4.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 98.108+/-83.266  $\chi^2/\text{NDF}$ : 7.7/9

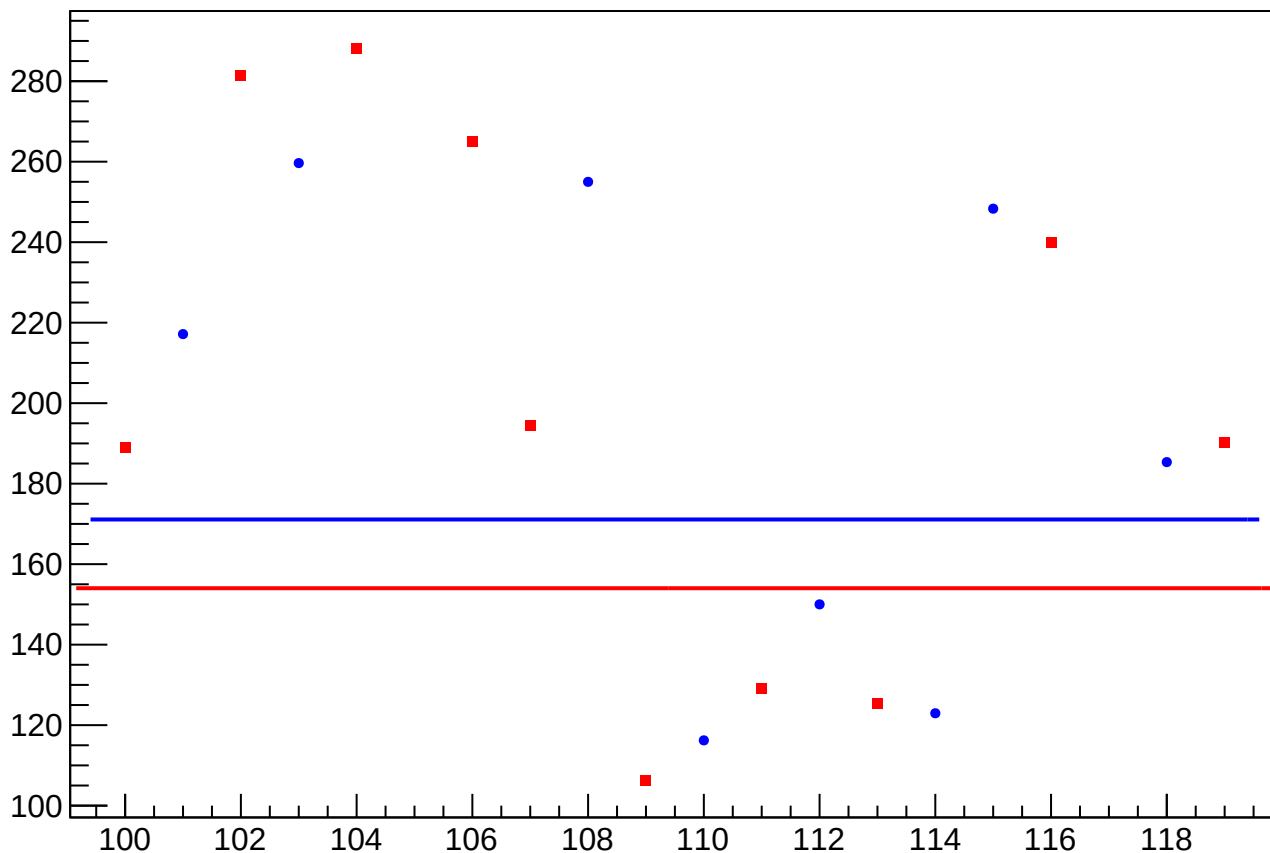
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 42.755+/-63.854  $\chi^2/\text{NDF}$ : 12.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_ds\_avg\_rms vs Slug



Right In: 171.103+/-0.070  $\chi^2/\text{NDF}$ : 525509.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 154.021+/-0.059  $\chi^2/\text{NDF}$ : 982054.6/9

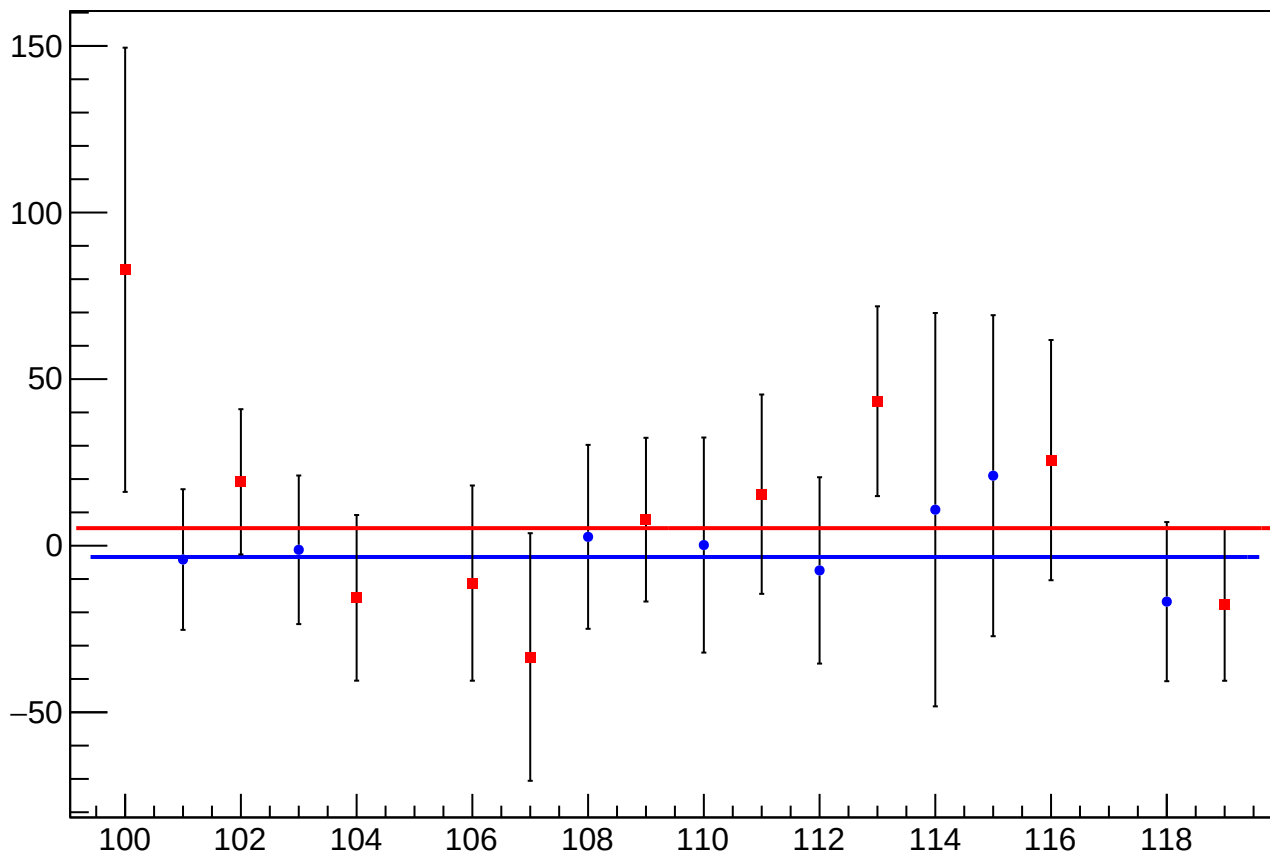
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 161.058+/-0.045  $\chi^2/\text{NDF}$ : 1542234.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_ds\_dd\_mean vs Slug



Right In: -3.393+/-9.864  $\chi^2/\text{NDF}$ : 0.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.271+/-8.934  $\chi^2/\text{NDF}$ : 7.1/9

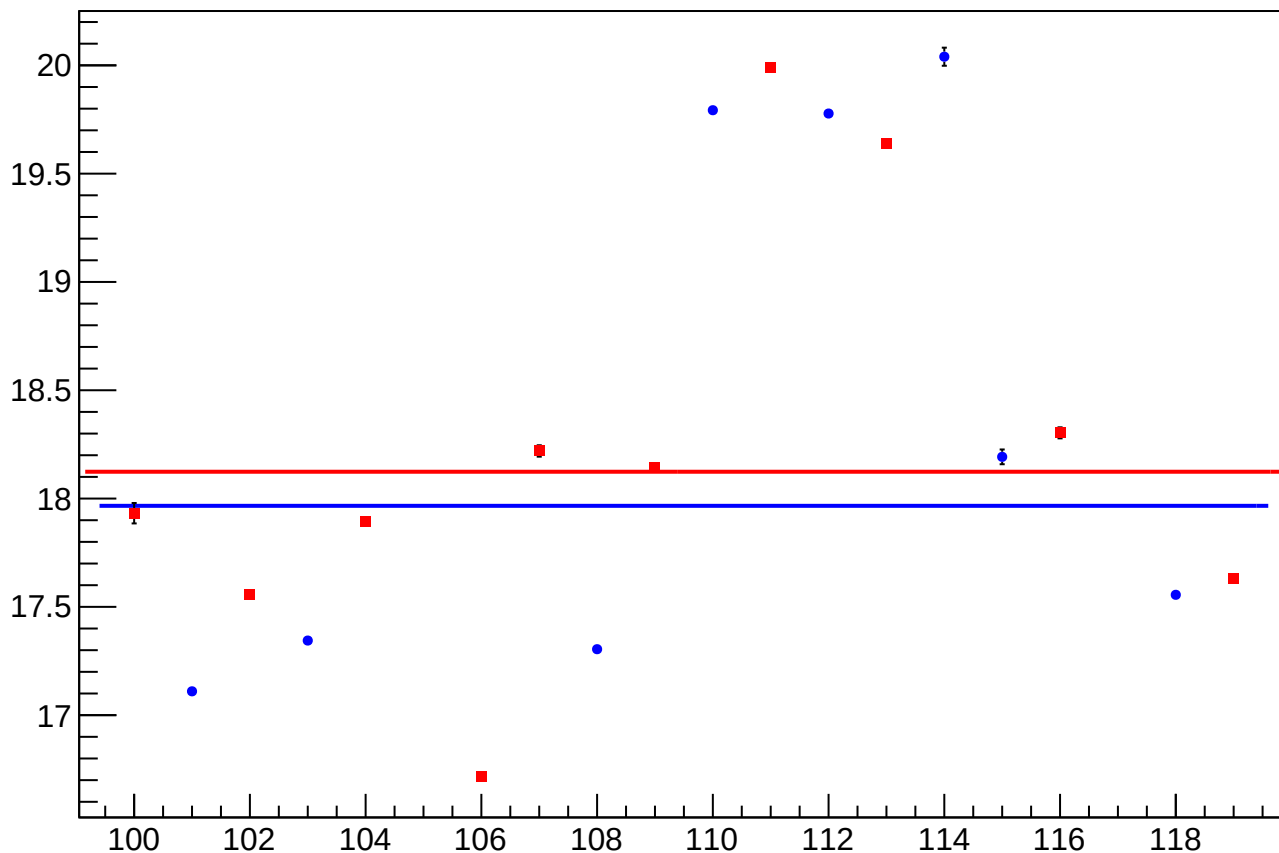
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.366+/-6.622  $\chi^2/\text{NDF}$ : 8.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_ds\_dd\_rms vs Slug



Right In: 17.966+/-0.007  $\chi^2/\text{NDF}$ : 23893.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.124+/-0.006  $\chi^2/\text{NDF}$ : 20573.6/9

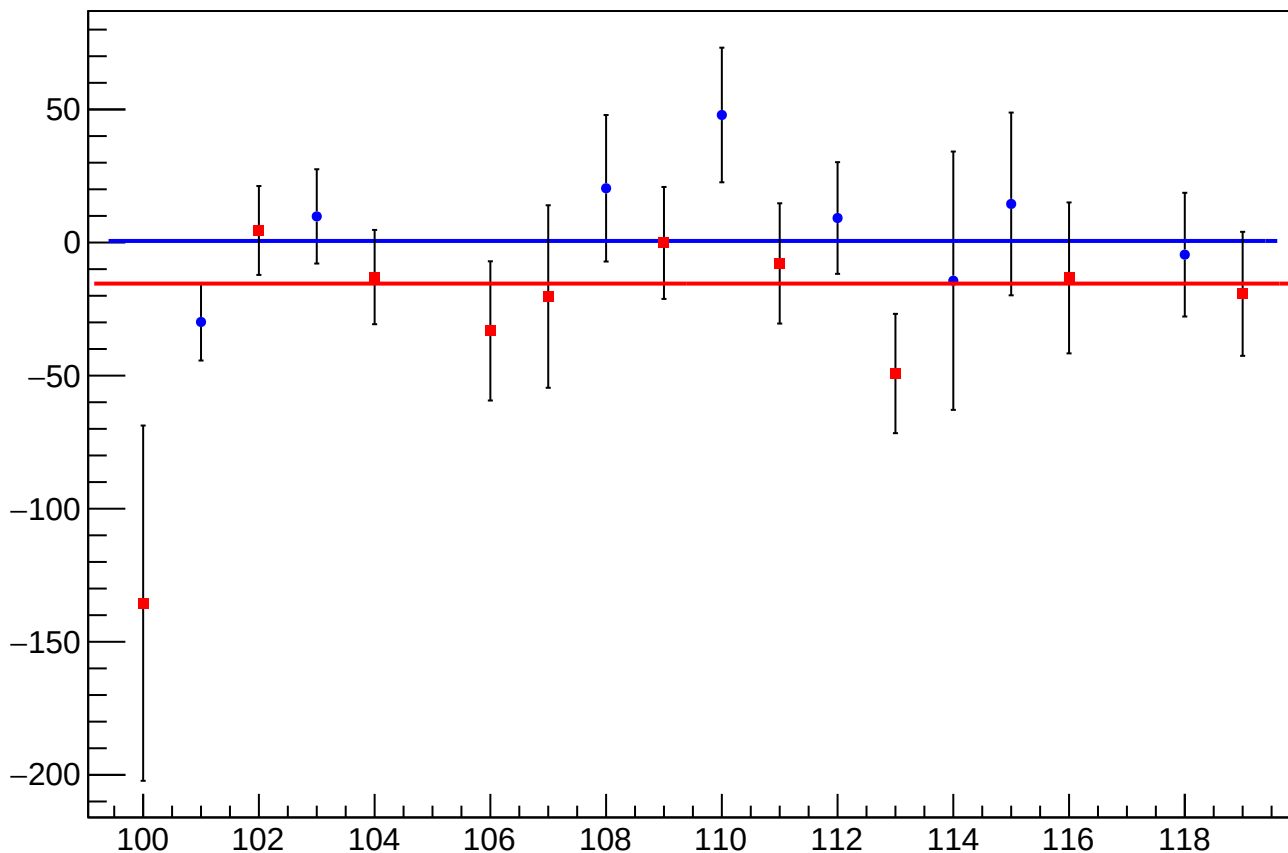
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.053+/-0.005  $\chi^2/\text{NDF}$ : 44746.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4acX\_avg\_mean vs Slug



Right In: 0.596+/-7.849  $\chi^2/\text{NDF}$ : 9.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.424+/-7.330  $\chi^2/\text{NDF}$ : 8.1/9

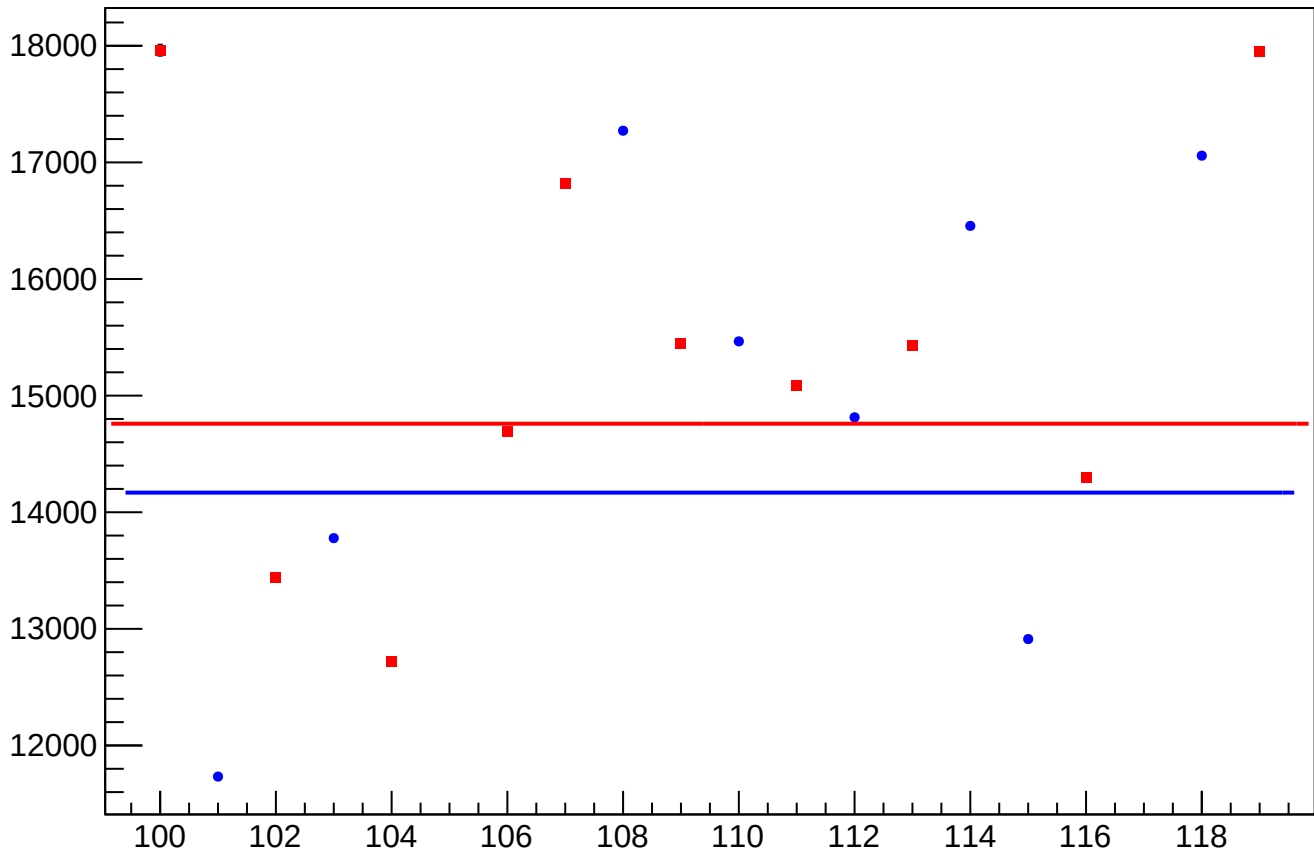
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.961+/-5.357  $\chi^2/\text{NDF}$ : 19.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

diff\_bpm\_4aX\_4acX\_avg\_rms vs Slug



Right In: 14168.301+/-5.550  $\chi^2/\text{NDF}$ : 128124.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14759.199+/-5.183  $\chi^2/\text{NDF}$ : 93234.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

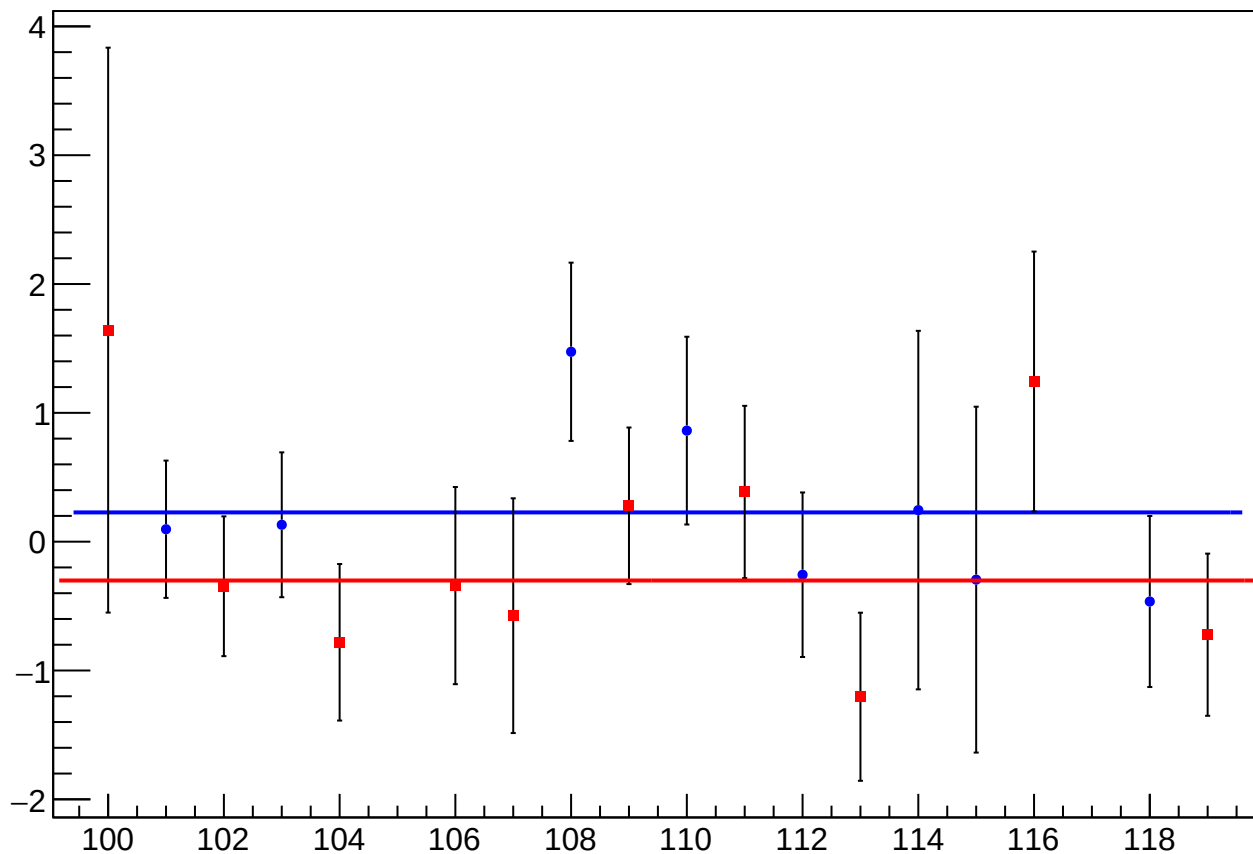
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14483.898+/-3.788  $\chi^2/\text{NDF}$ : 227413.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm\_4aX\_4acX\_dd\_mean vs Slug



Right In: 0.227 $\pm$ 0.247  $\chi^2$ /NDF: 5.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.301 $\pm$ 0.223  $\chi^2$ /NDF: 8.2/9

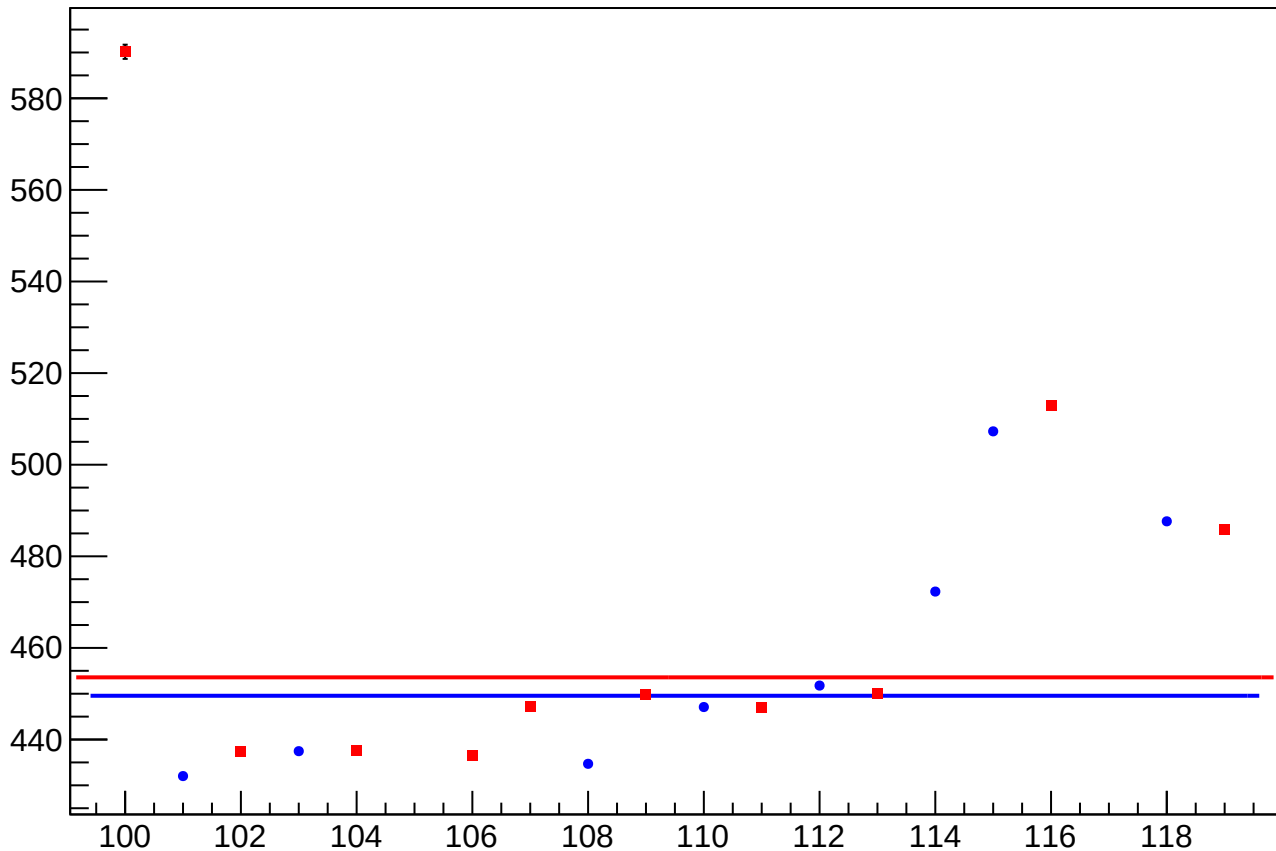
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.063 $\pm$ 0.166  $\chi^2$ /NDF: 16.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aX\_4acX\_dd\_rms vs Slug



Right In: 449.554+/-0.174  $\chi^2/\text{NDF}$ : 14877.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 453.574+/-0.158  $\chi^2/\text{NDF}$ : 24453.3/9

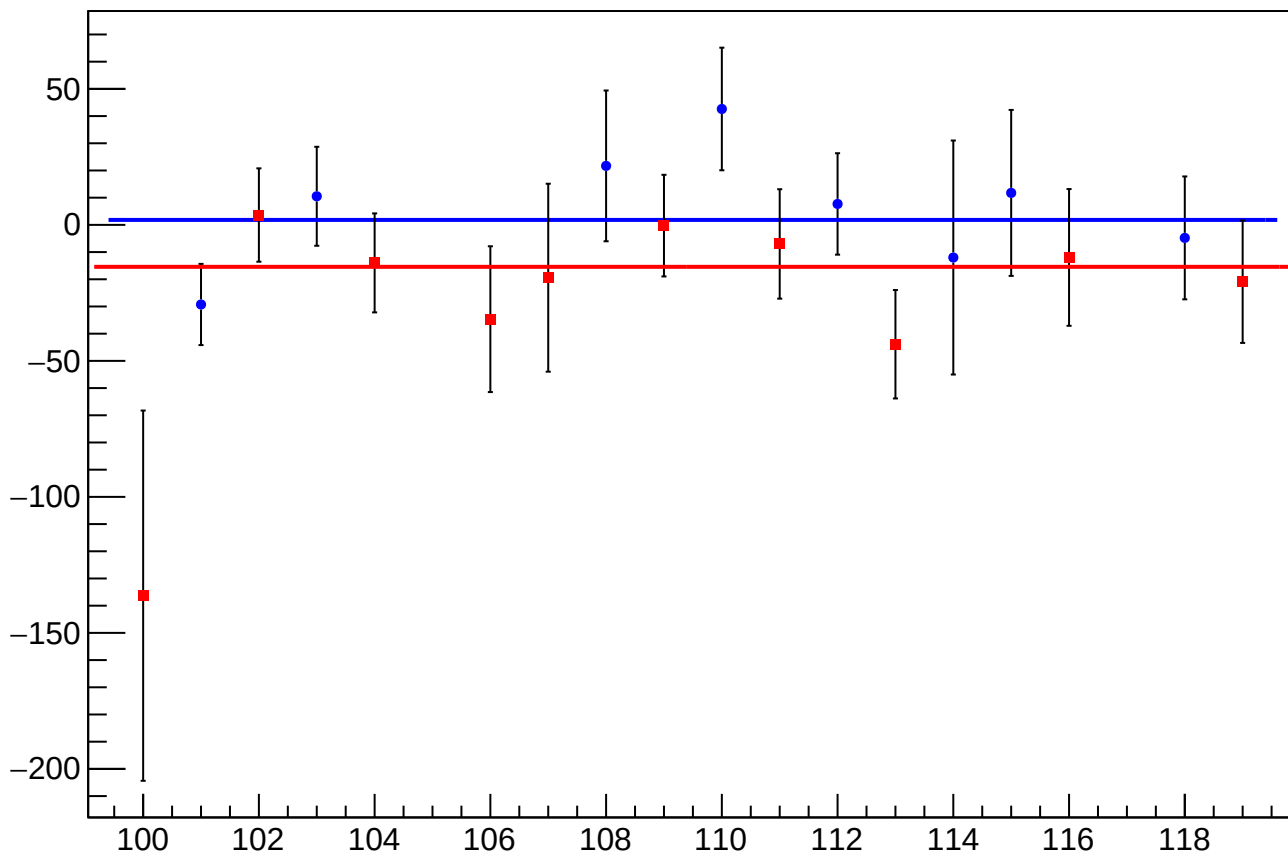
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 451.761+/-0.117  $\chi^2/\text{NDF}$ : 39622.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

diff\_bpm\_4aX\_4eX\_avg\_mean vs Slug



Right In:  $1.824 \pm 7.618$   $\chi^2/\text{NDF}$ : 8.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-15.423 \pm 7.023$   $\chi^2/\text{NDF}$ : 7.9/9

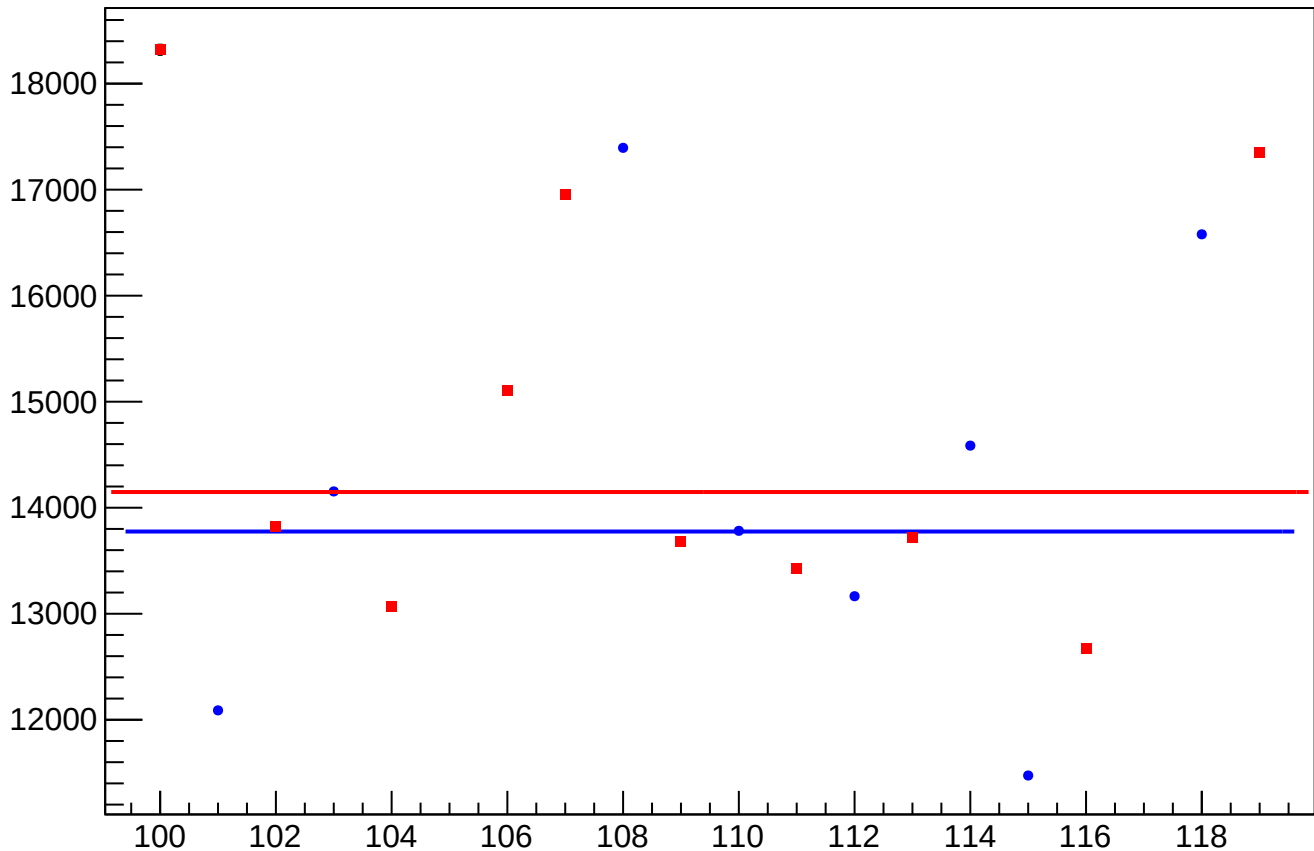
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-7.498 \pm 5.164$   $\chi^2/\text{NDF}$ : 19.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4eX\_avg\_rms vs Slug



Right In: 13775.538+/-5.387  $\chi^2/\text{NDF}$ : 105545.3/7

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

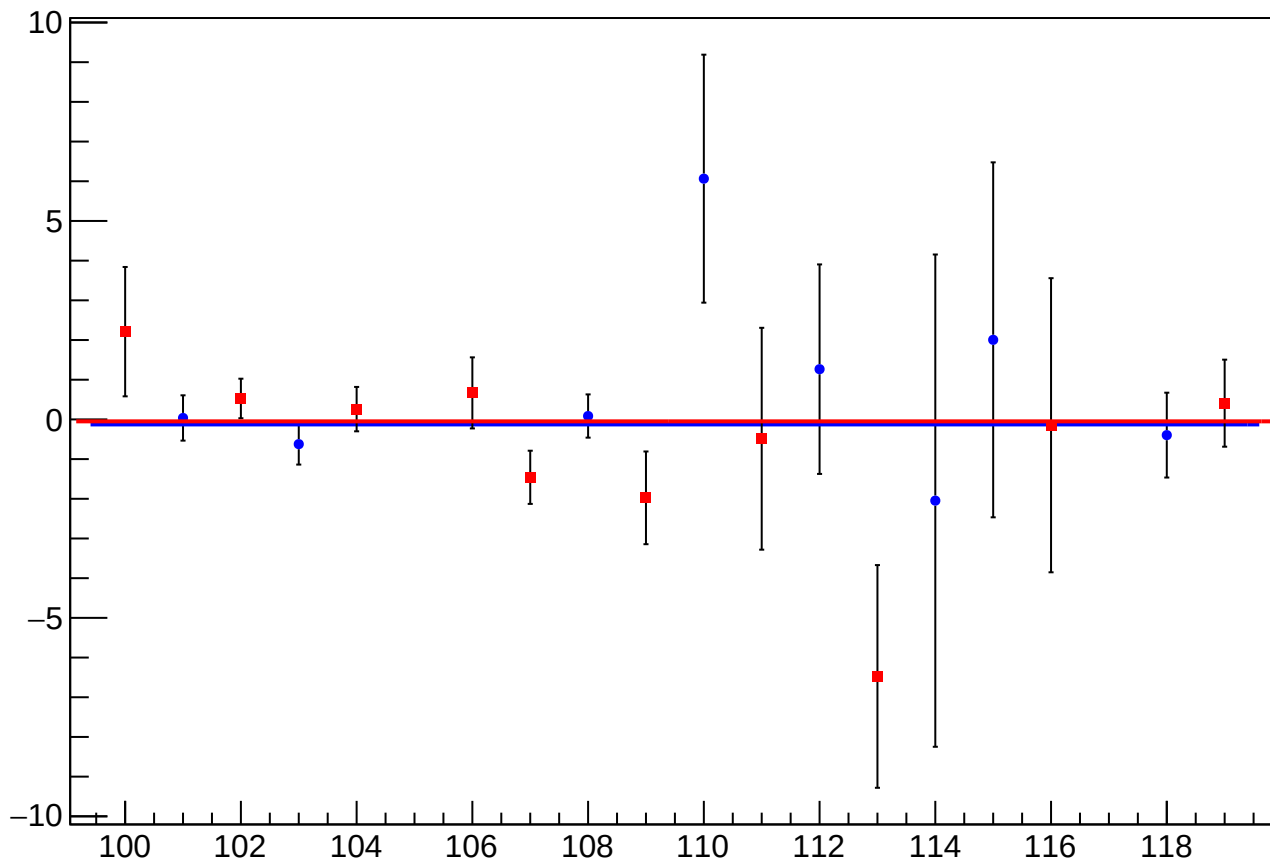
Right Out: 14148.094+/-4.966  $\chi^2/\text{NDF}$ : 83073.5/9

All: 13976.920+/-3.651  $\chi^2/\text{NDF}$ : 191204.5/17

- 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\_4aX\_4eX\_dd\_mean vs Slug



Right In: -0.126+/-0.296  $\chi^2/\text{NDF}$ : 5.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.049+/-0.278  $\chi^2/\text{NDF}$ : 16.8/9

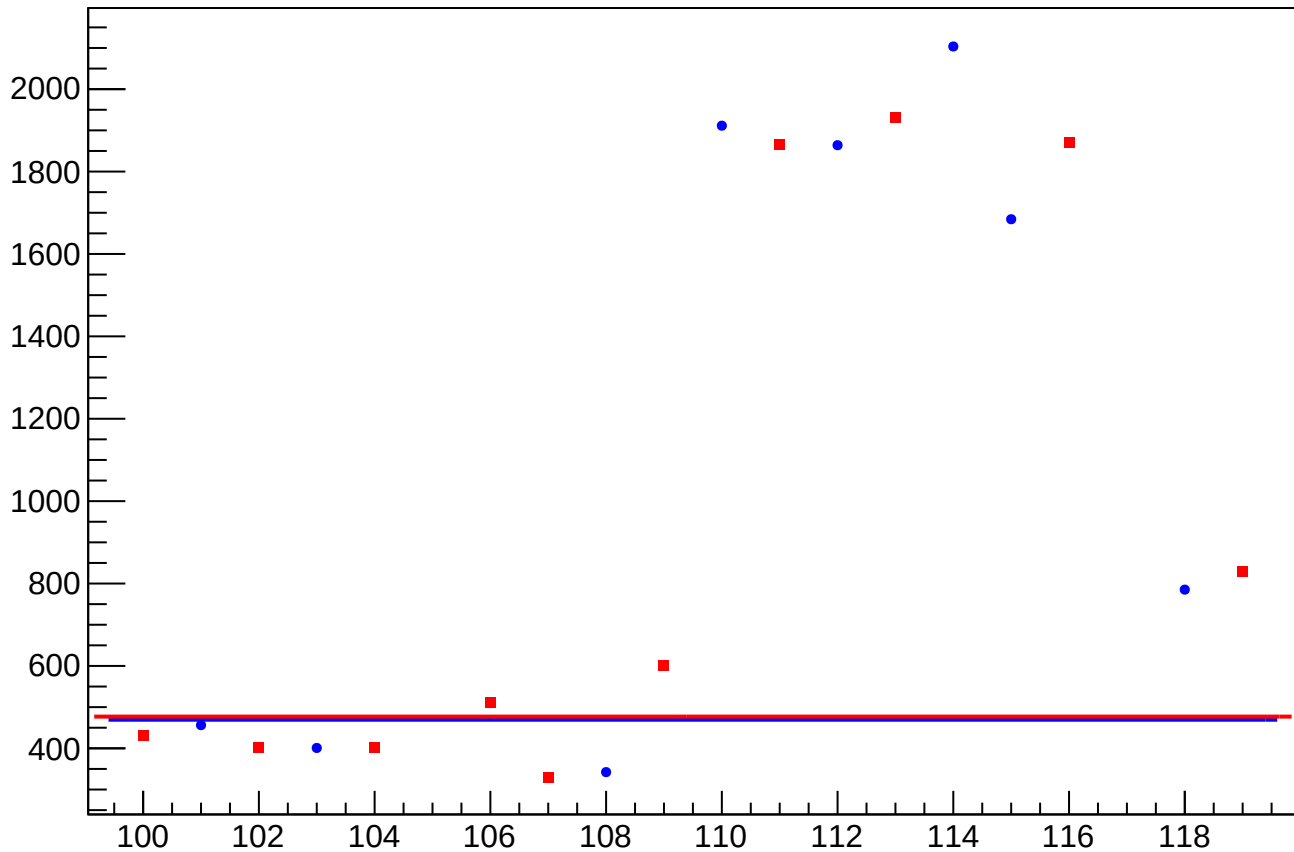
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.085+/-0.203  $\chi^2/\text{NDF}$ : 22.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4eX\_dd\_rms vs Slug



Right In: 469.508 $\pm$ 0.209  $\chi^2$ /NDF: 1591017.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 477.021 $\pm$ 0.196  $\chi^2$ /NDF: 1729365.0/9

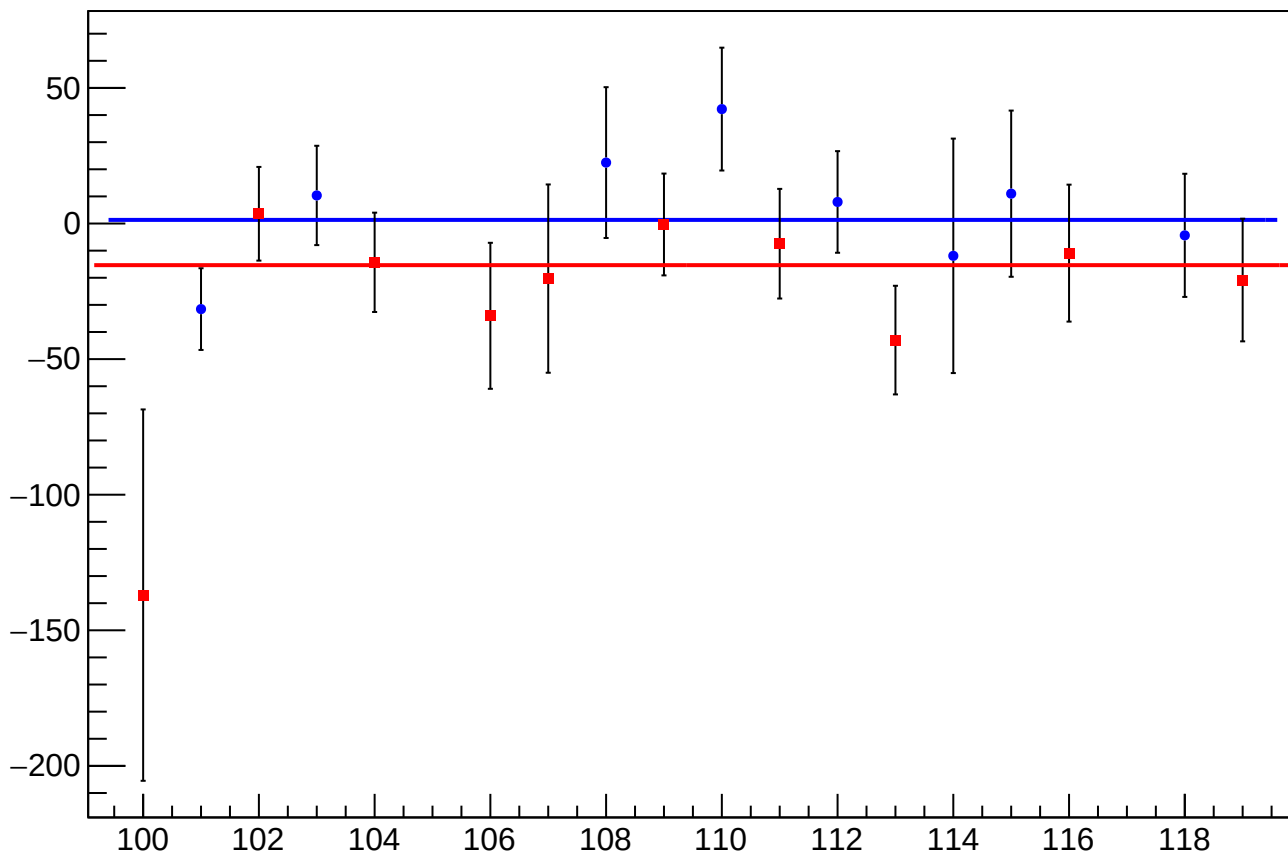
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 473.507 $\pm$ 0.143  $\chi^2$ /NDF: 3321067.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aX\_4ecX\_avg\_mean vs Slug



Right In: 1.339+/-7.666  $\chi^2/\text{NDF}$ : 9.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.349+/-7.061  $\chi^2/\text{NDF}$ : 7.7/9

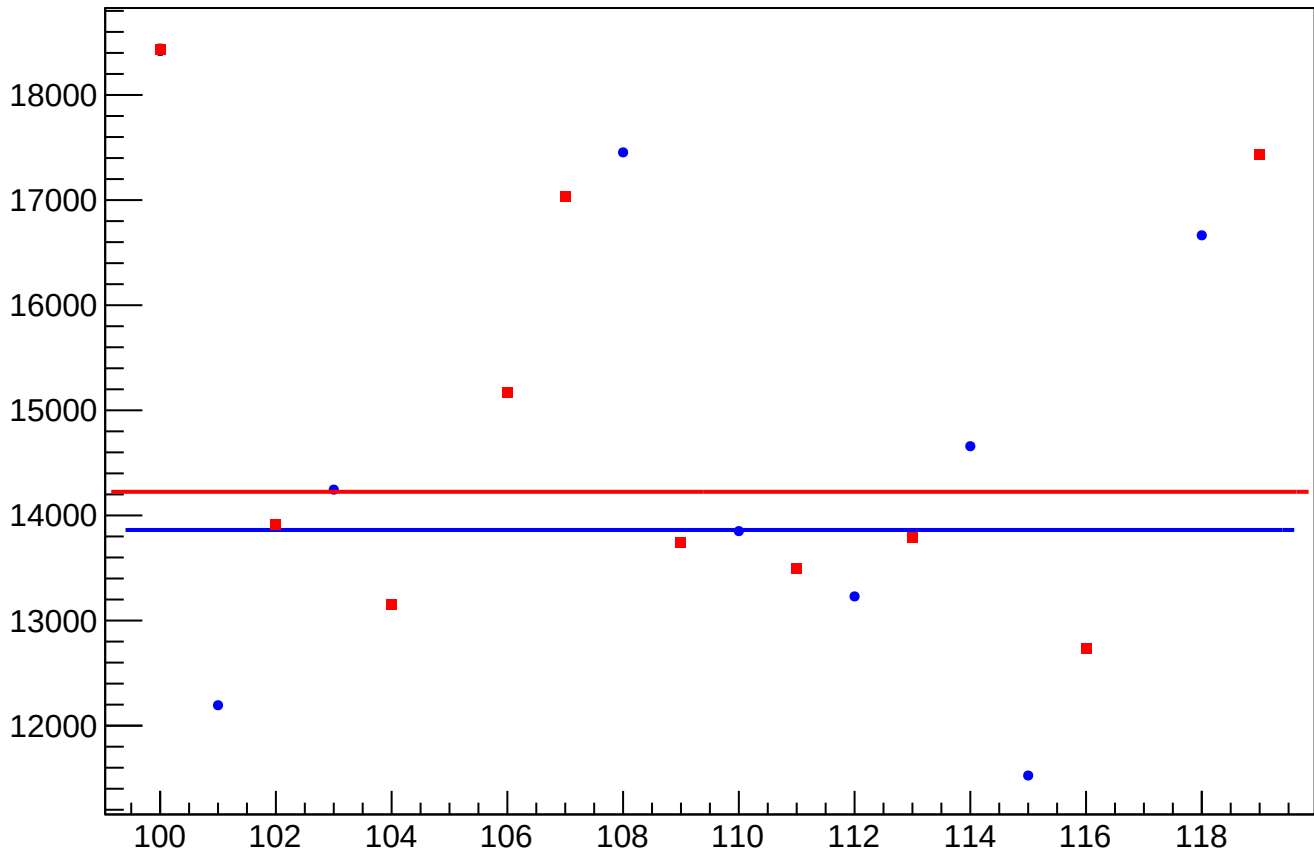
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.689+/-5.194  $\chi^2/\text{NDF}$ : 19.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4ecX\_avg\_rms vs Slug



Right In: 13861.793+/-5.421  $\chi^2/\text{NDF}$ : 103801.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14224.908+/-4.993  $\chi^2/\text{NDF}$ : 82747.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

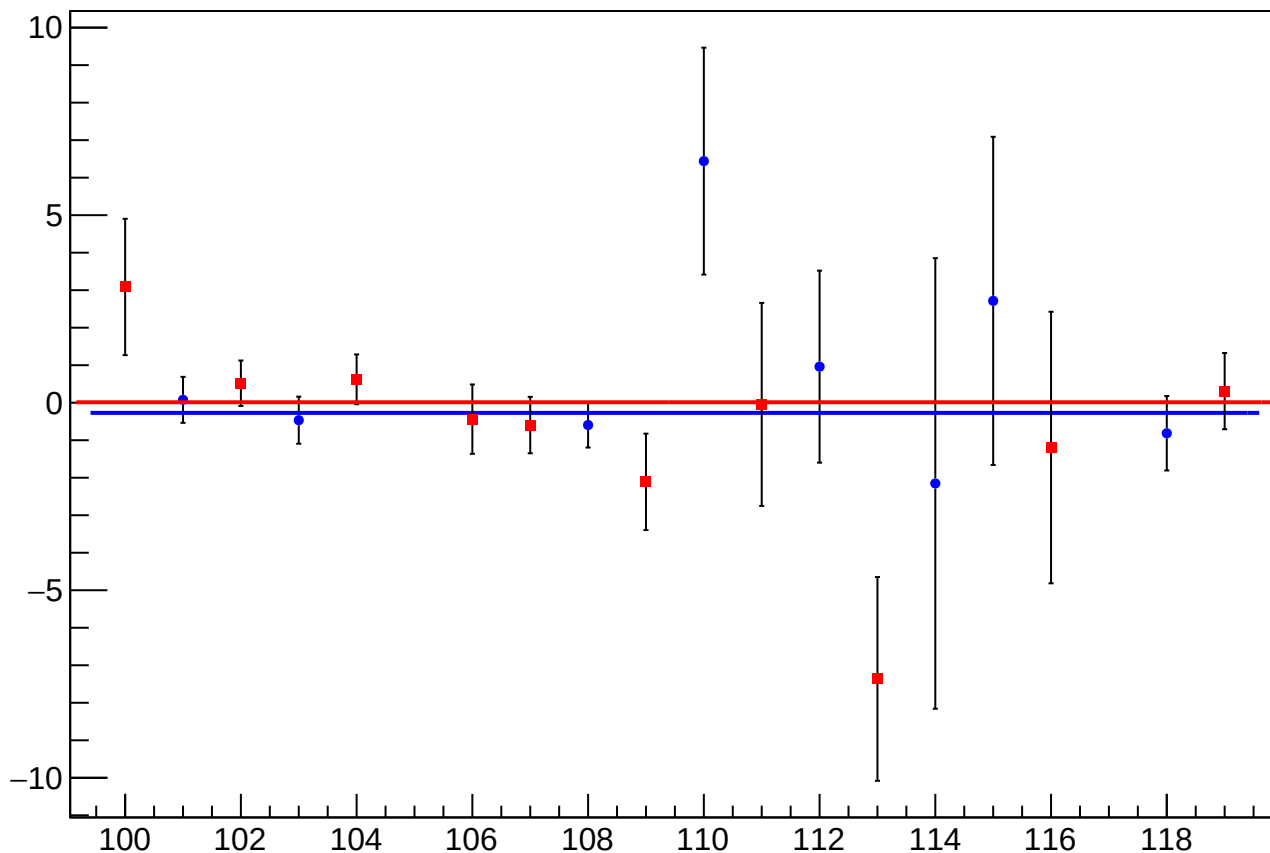
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14058.230+/-3.672  $\chi^2/\text{NDF}$ : 188977.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm\_4aX\_4ecX\_dd\_mean vs Slug



Right In: -0.271 $\pm$ 0.327  $\chi^2$ /NDF: 6.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.012 $\pm$ 0.314  $\chi^2$ /NDF: 15.6/9

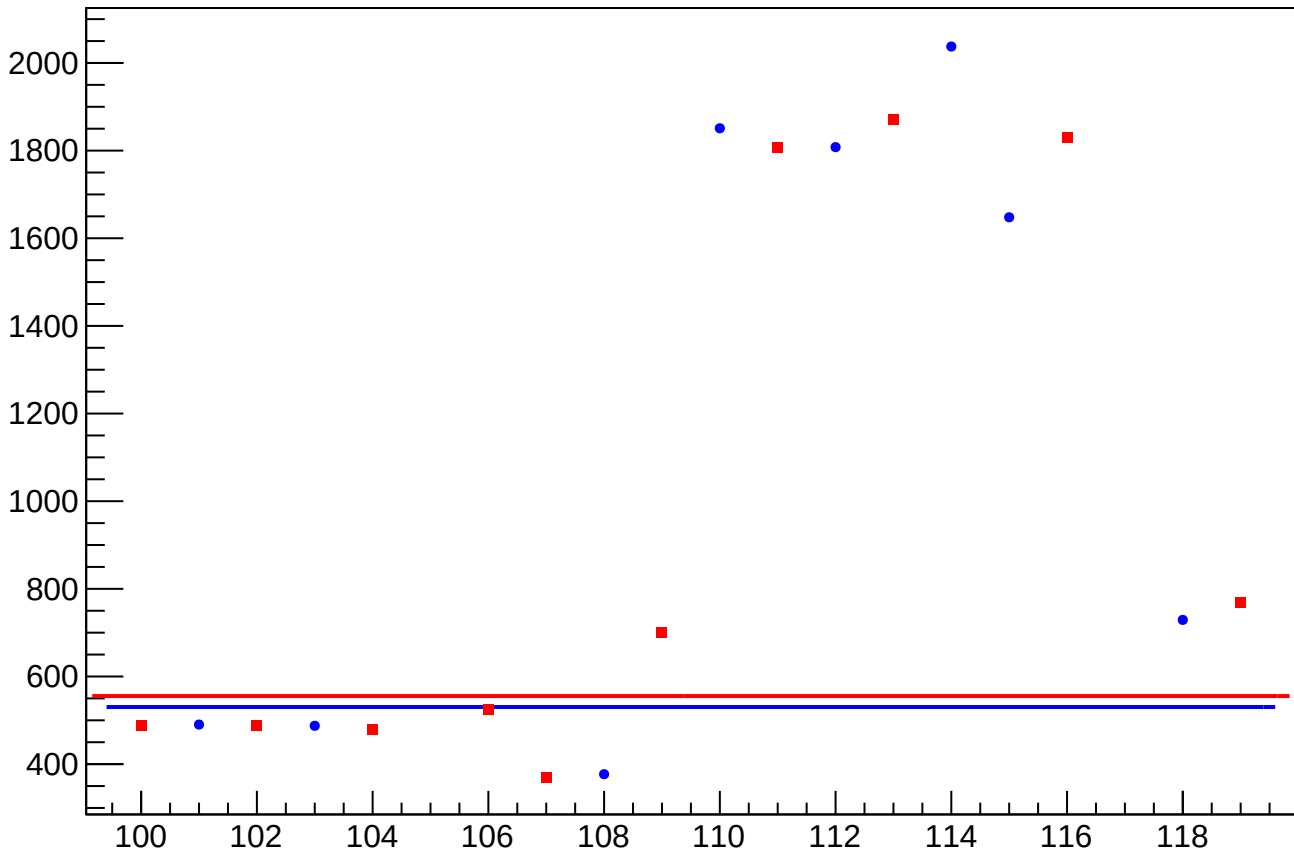
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.124 $\pm$ 0.226  $\chi^2$ /NDF: 22.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aX\_4ecX\_dd\_rms vs Slug



Right In: 530.328+/-0.231  $\chi^2/\text{NDF}$ : 1364644.9/7

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

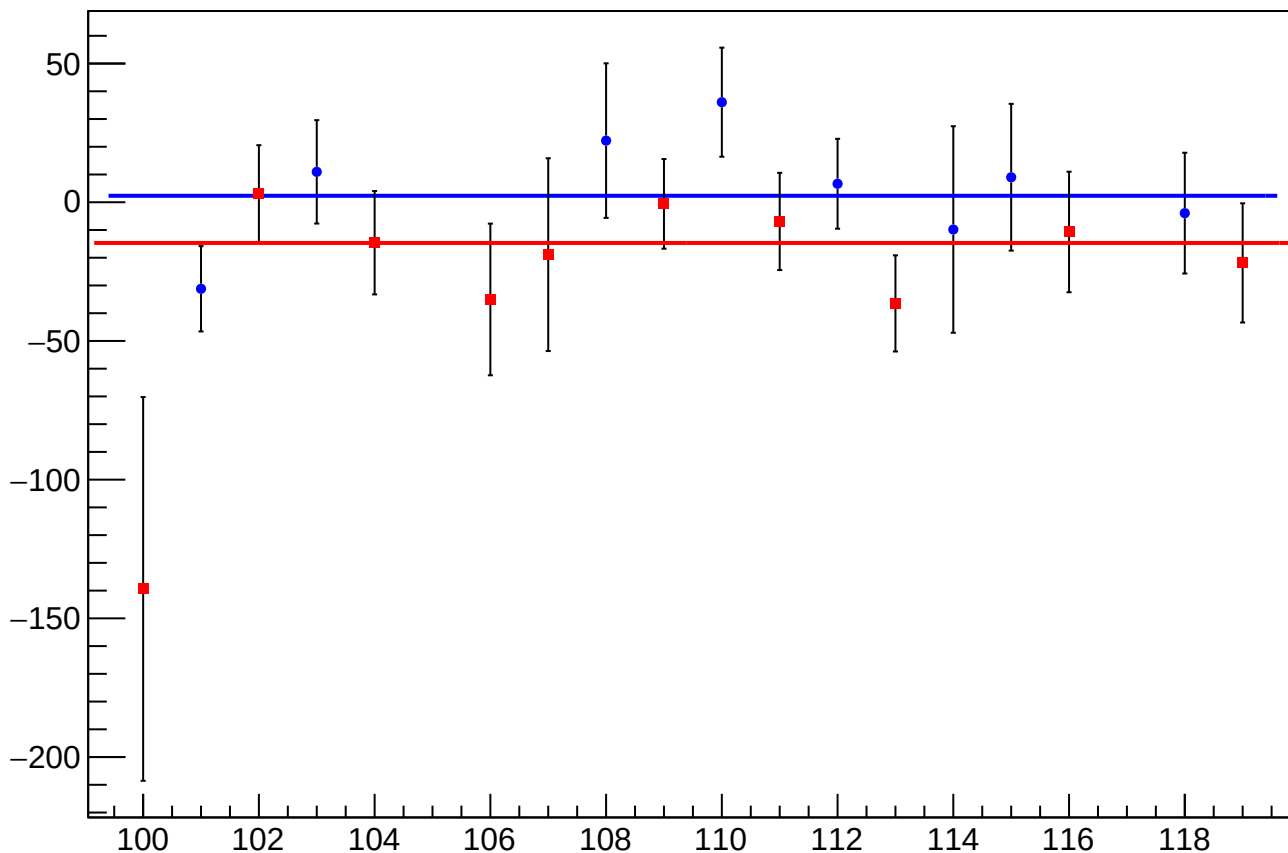
Right Out: 555.324+/-0.222  $\chi^2/\text{NDF}$ : 1436027.0/9

All: 543.343+/-0.160  $\chi^2/\text{NDF}$ : 2806753.3/17

- 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: 2.333+/-7.244  $\chi^2/\text{NDF}$ : 8.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14.677+/-6.566  $\chi^2/\text{NDF}$ : 7.5/9

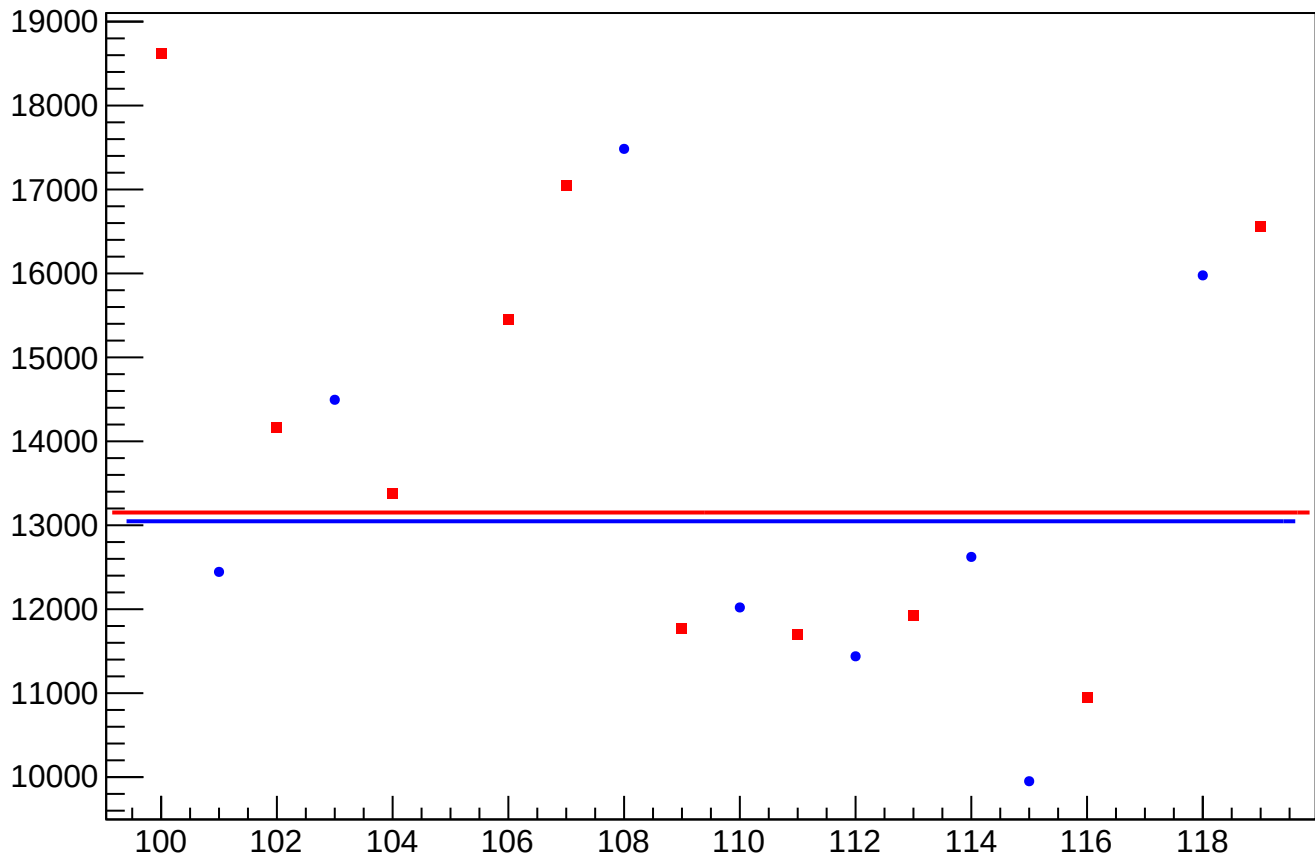
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.005+/-4.865  $\chi^2/\text{NDF}$ : 19.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4eX\_4ecX\_avg\_rms vs Slug



Right In: 13047.689+/-5.122  $\chi^2/\text{NDF}$ : 154922.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13152.082+/-4.643  $\chi^2/\text{NDF}$ : 167874.7/9

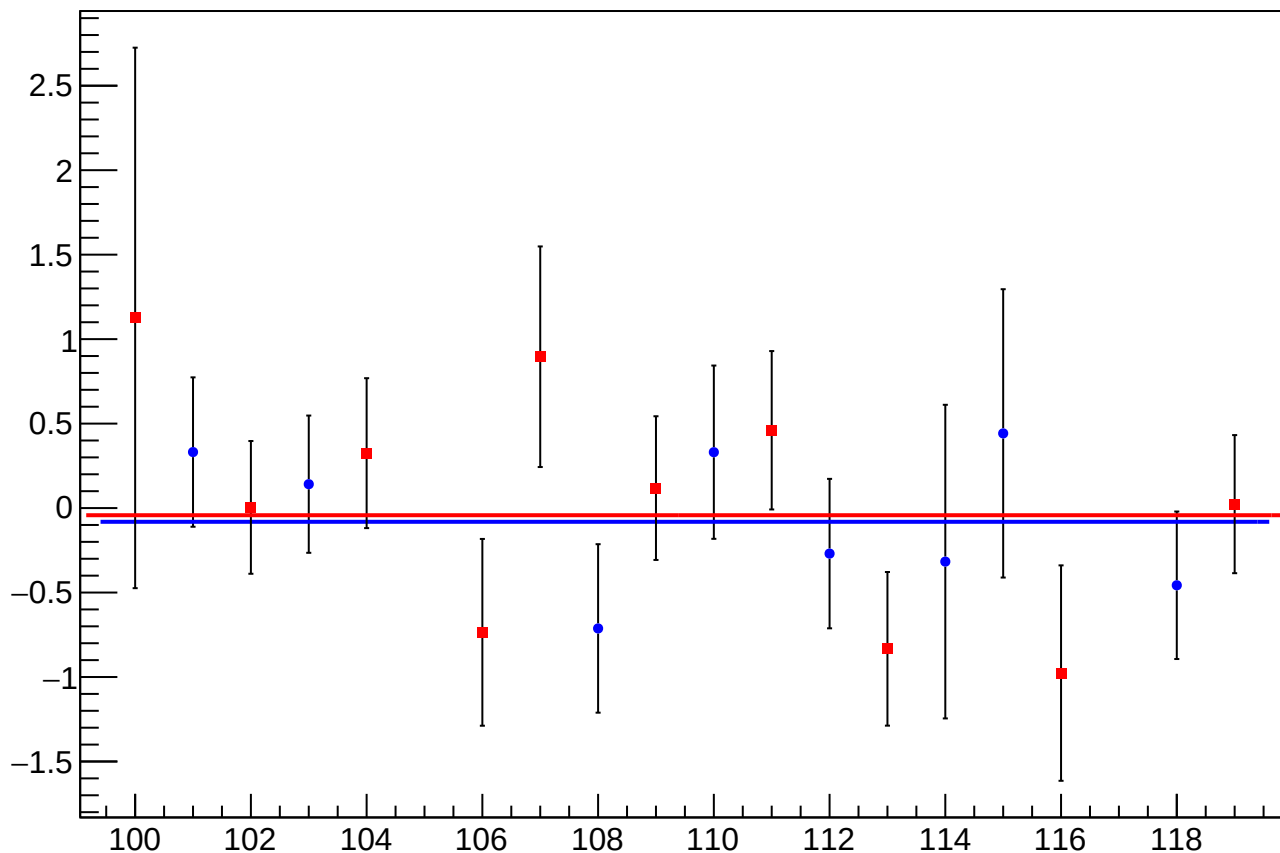
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13104.995+/-3.440  $\chi^2/\text{NDF}$ : 323025.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4eX\_4ecX\_dd\_mean vs Slug



Right In: -0.081 $\pm$ 0.177  $\chi^2$ /NDF: 4.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.042 $\pm$ 0.156  $\chi^2$ /NDF: 11.4/9

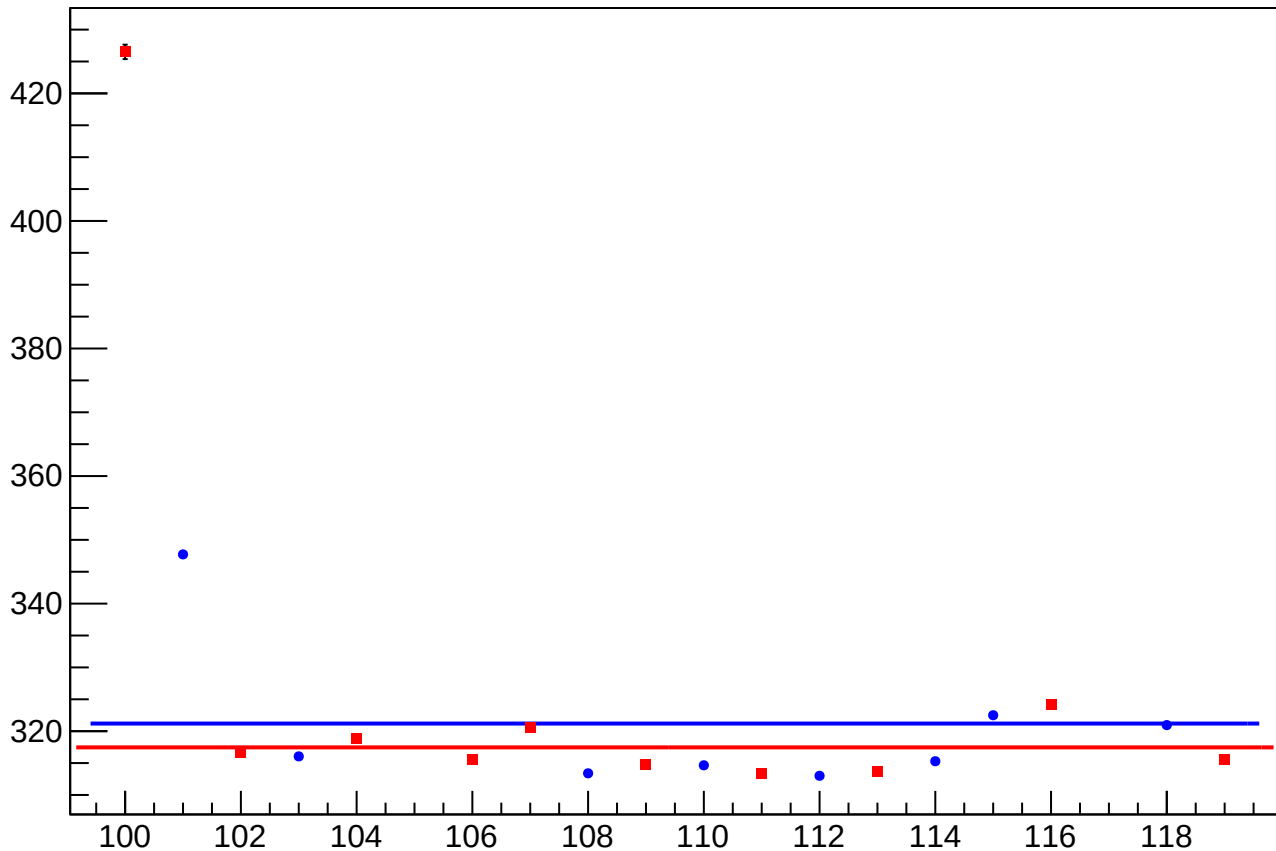
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.059 $\pm$ 0.117  $\chi^2$ /NDF: 16.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4eX\_4ecX\_dd\_rms vs Slug



Right In: 321.196 $\pm$ 0.125  $\chi^2$ /NDF: 9106.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 317.462 $\pm$ 0.111  $\chi^2$ /NDF: 10017.1/9

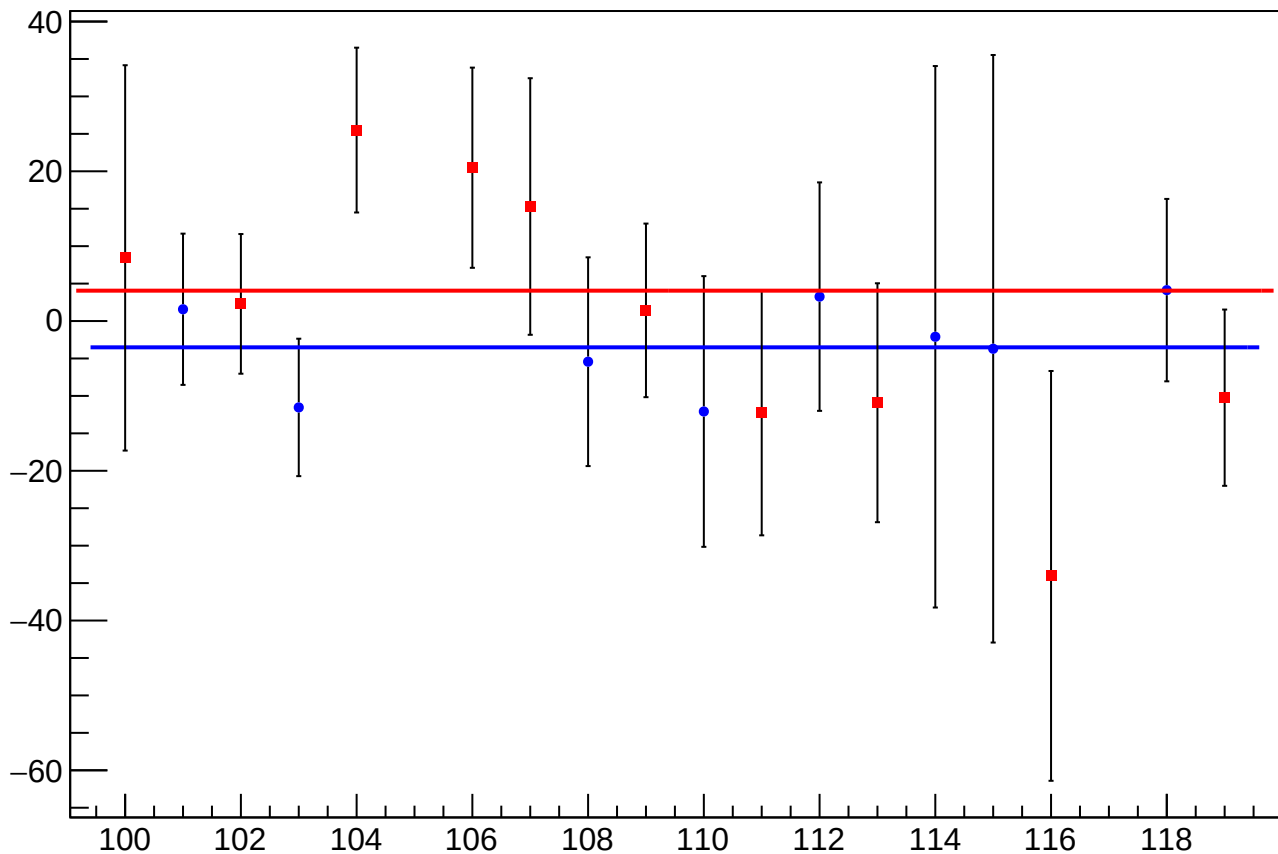
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 319.097 $\pm$ 0.083  $\chi^2$ /NDF: 19623.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4acY\_avg\_mean vs Slug



Right In: -3.511 $\pm$ 4.860  $\chi^2$ /NDF: 1.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.057 $\pm$ 4.306  $\chi^2$ /NDF: 11.1/9

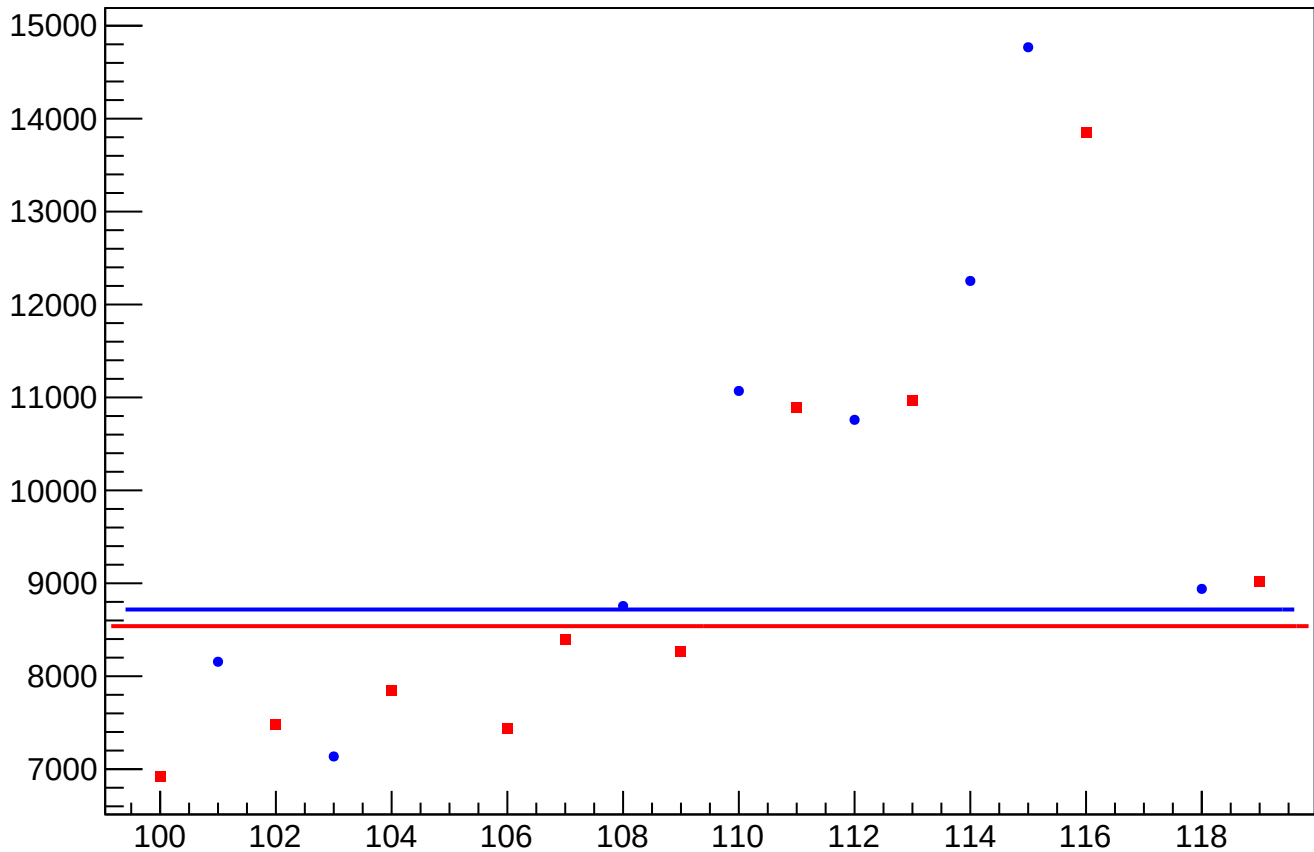
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.728 $\pm$ 3.223  $\chi^2$ /NDF: 14.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4acY\_avg\_rms vs Slug



Right In: 8717.952+/-3.437  $\chi^2/\text{NDF}$ : 202617.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8538.825+/-3.045  $\chi^2/\text{NDF}$ : 222750.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

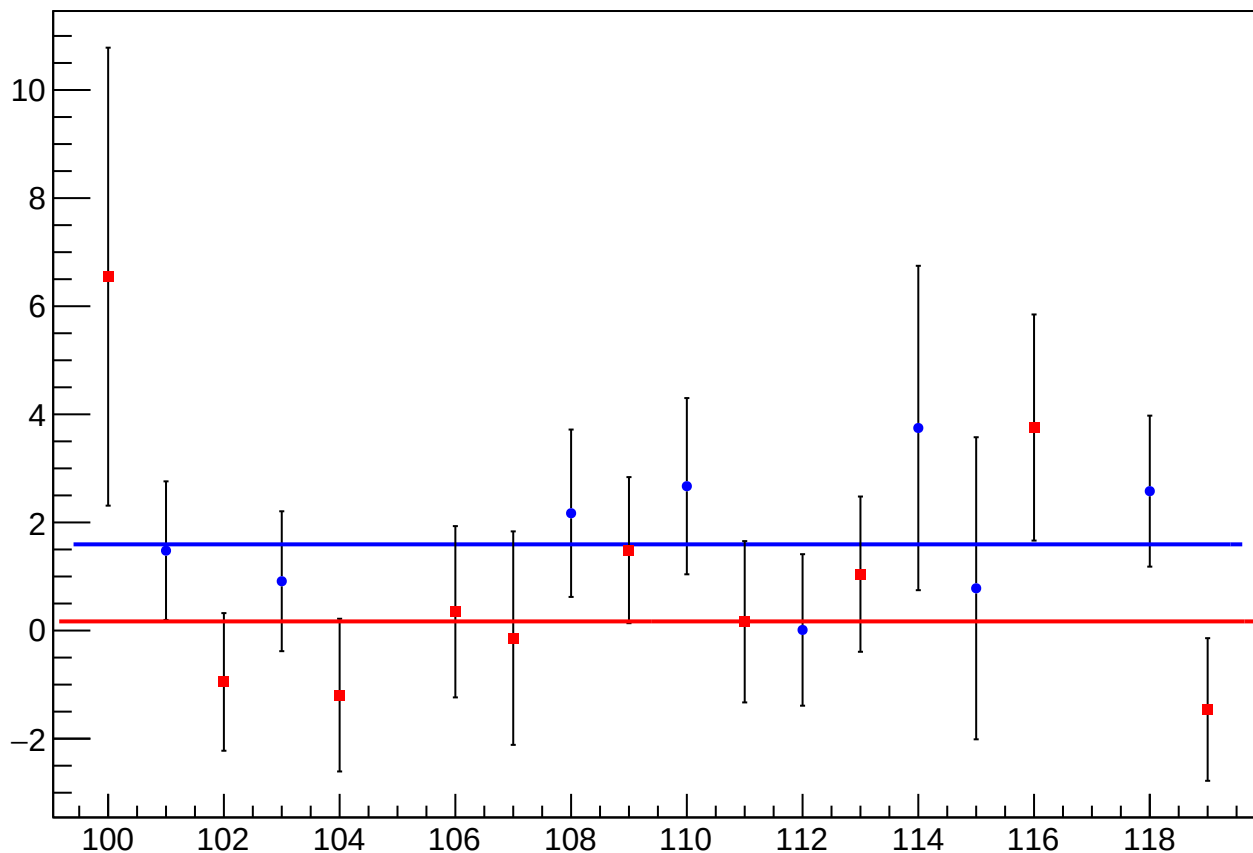
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8617.604+/-2.279  $\chi^2/\text{NDF}$ : 426889.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm\_4aY\_4acY\_dd\_mean vs Slug



Right In: 1.595 $\pm$ 0.554  $\chi^2$ /NDF: 3.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.169 $\pm$ 0.493  $\chi^2$ /NDF: 9.8/9

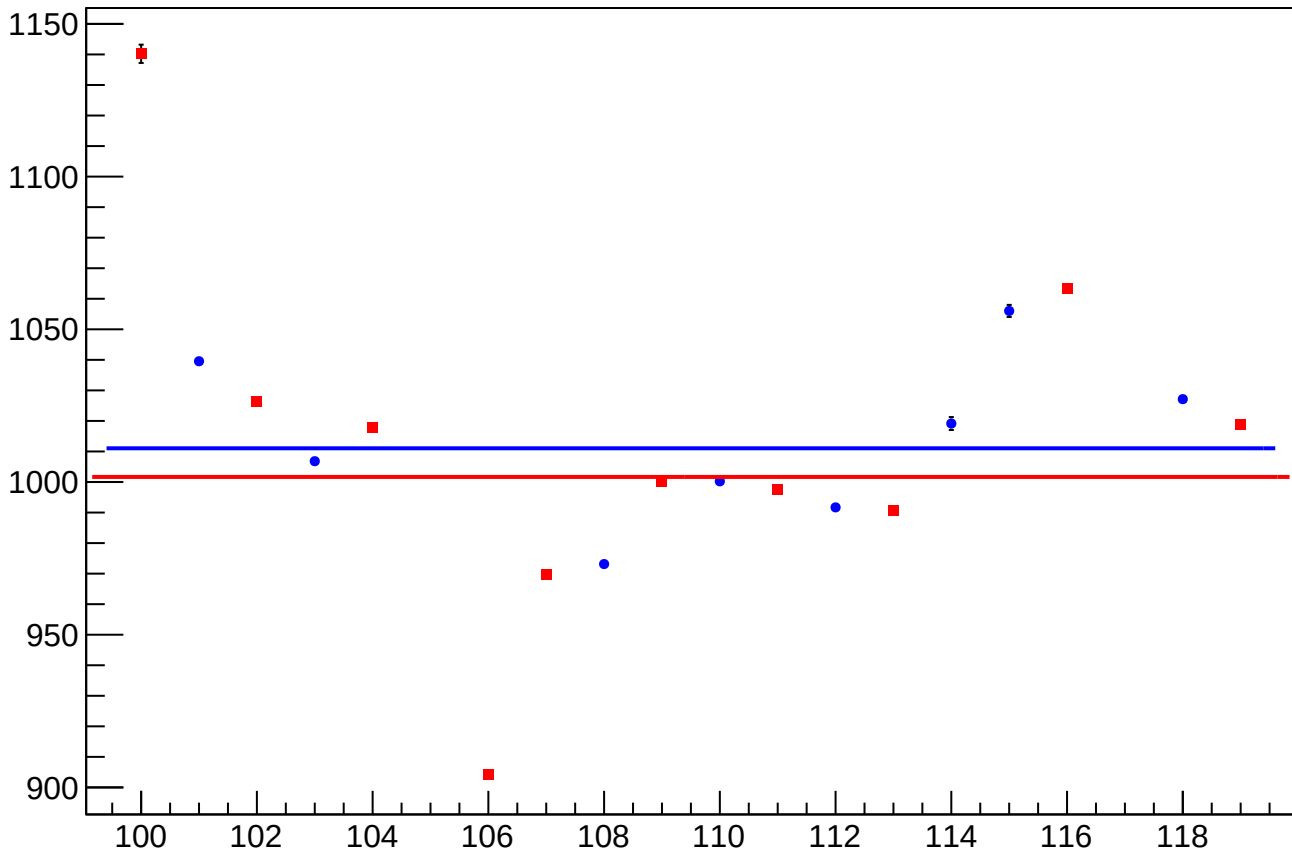
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.799 $\pm$ 0.368  $\chi^2$ /NDF: 16.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4acY\_dd\_rms vs Slug



Right In: 1011.041 $\pm$ 0.392  $\chi^2$ /NDF: 3476.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1001.664 $\pm$ 0.349  $\chi^2$ /NDF: 13446.0/9

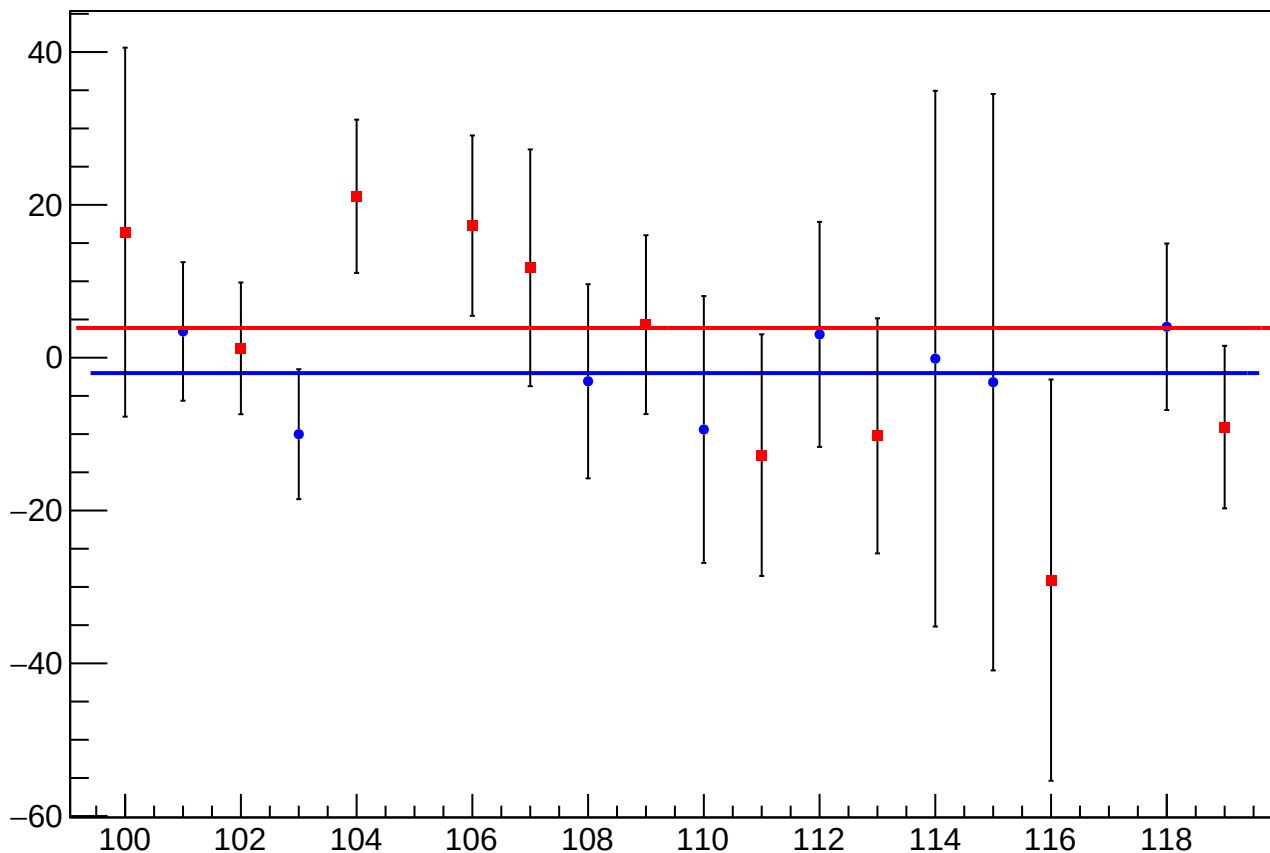
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1005.810 $\pm$ 0.260  $\chi^2$ /NDF: 17241.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

diff\_bpm\_4aY\_4eY\_avg\_mean vs Slug



Right In: -2.015+/-4.471  $\chi^2/\text{NDF}$ : 1.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.893+/-4.007  $\chi^2/\text{NDF}$ : 9.9/9

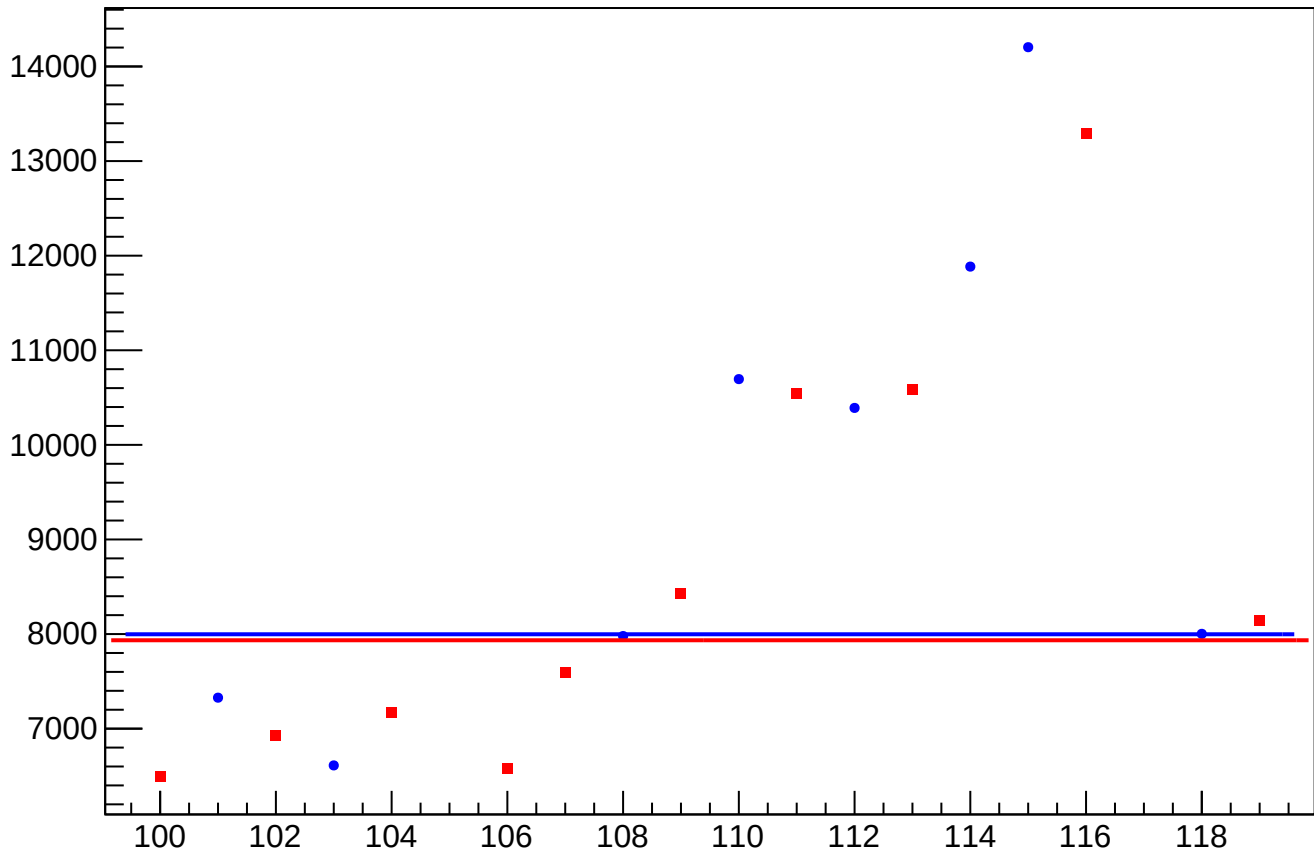
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.261+/-2.984  $\chi^2/\text{NDF}$ : 12.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aY\_4eY\_avg\_rms vs Slug



Right In: 7997.807 $\pm$ 3.162  $\chi^2$ /NDF: 243361.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7934.473 $\pm$ 2.834  $\chi^2$ /NDF: 275006.8/9

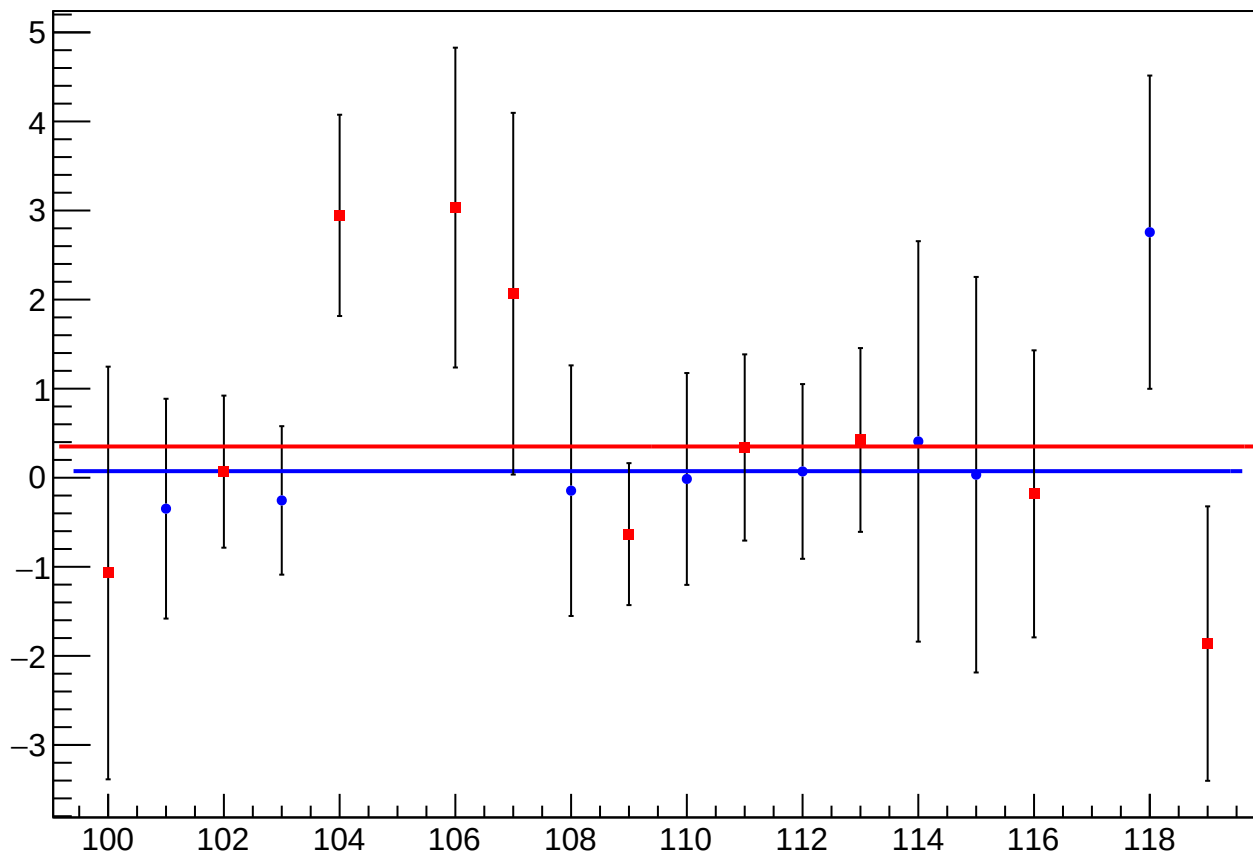
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7962.686 $\pm$ 2.110  $\chi^2$ /NDF: 518591.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4eY\_dd\_mean vs Slug



Right In: 0.074 $\pm$ 0.444  $\chi^2$ /NDF: 2.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.351 $\pm$ 0.374  $\chi^2$ /NDF: 12.4/9

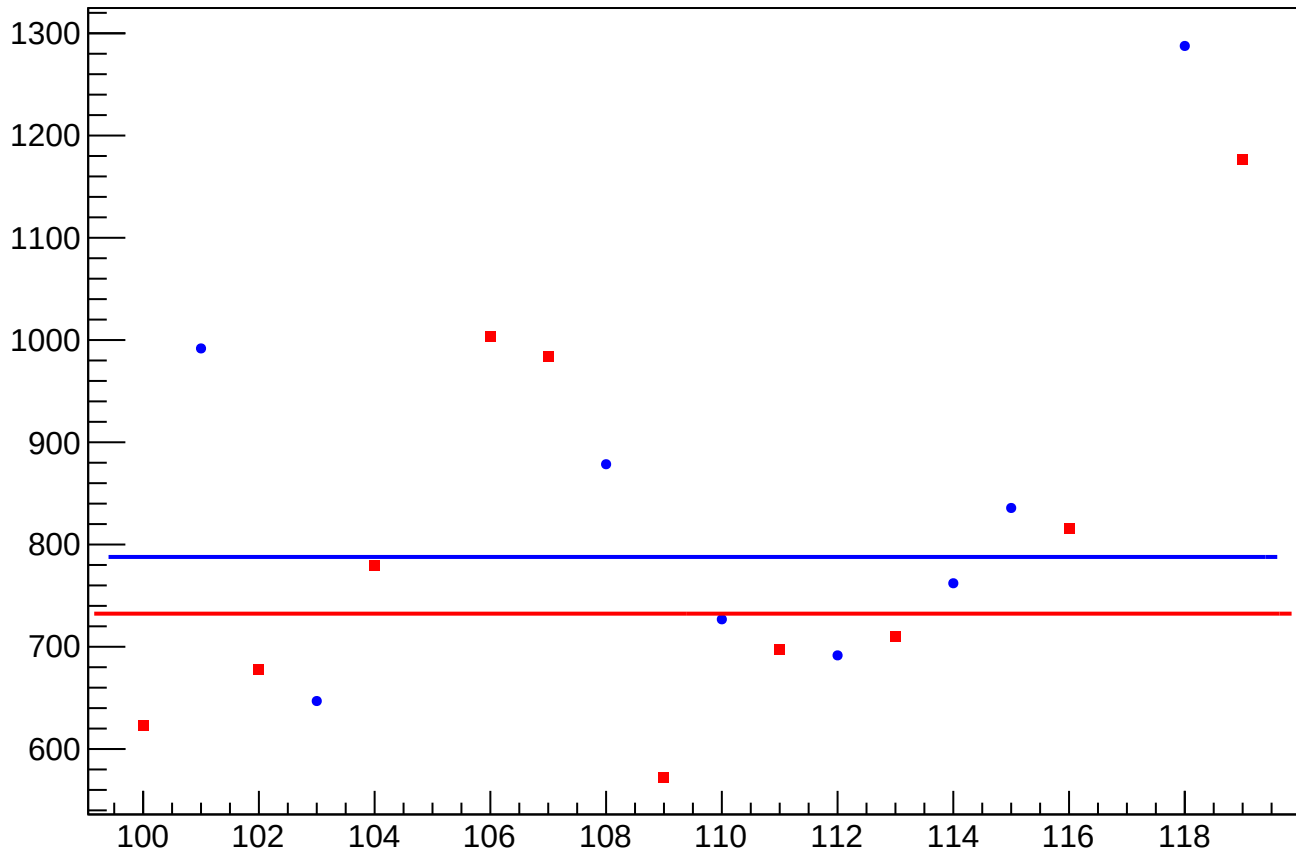
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.236 $\pm$ 0.286  $\chi^2$ /NDF: 15.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4eY\_dd\_rms vs Slug



Right In:  $787.854 \pm 0.314$   $\chi^2/\text{NDF}$ : 307395.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $732.388 \pm 0.265$   $\chi^2/\text{NDF}$ : 347479.9/9

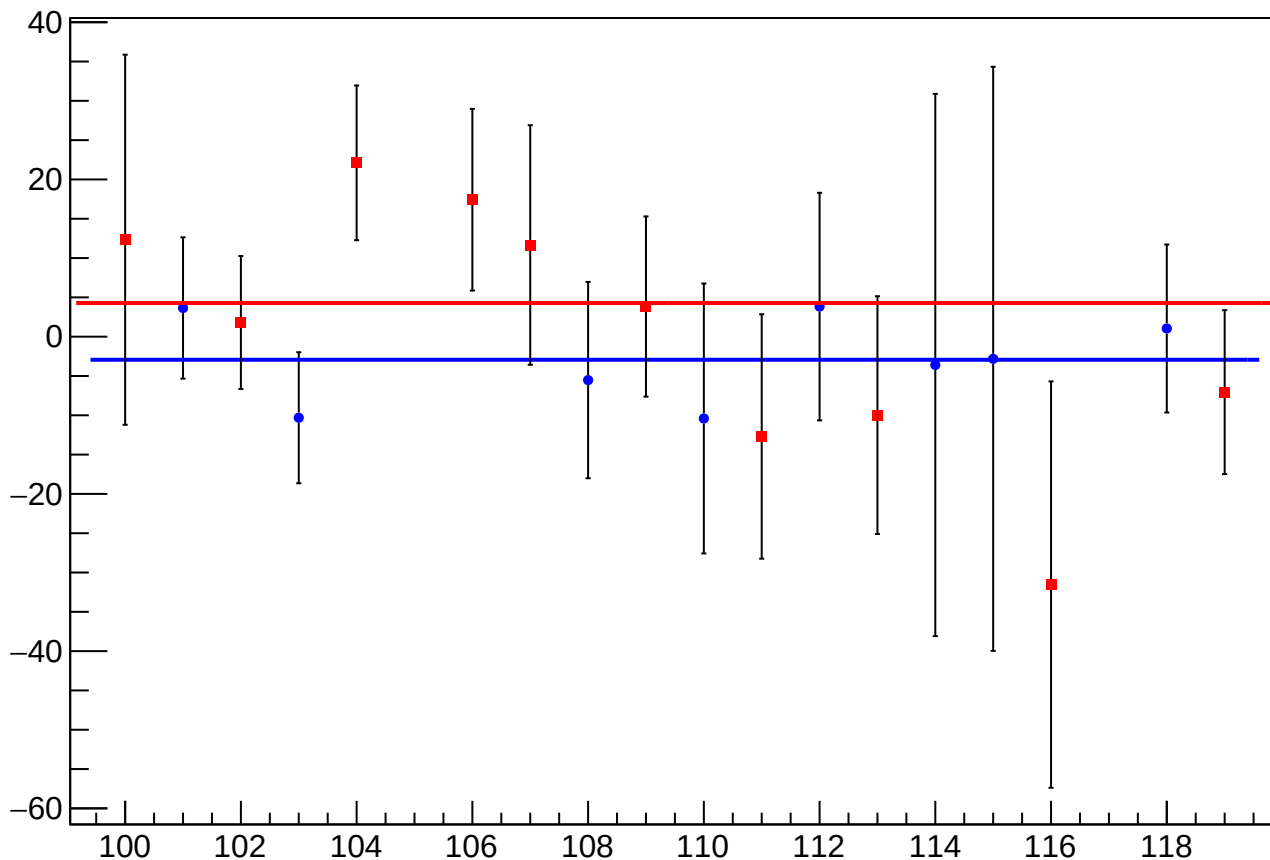
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $755.443 \pm 0.202$   $\chi^2/\text{NDF}$ : 673112.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aY\_4ecY\_avg\_mean vs Slug



Right In: -2.936+/-4.399  $\chi^2/\text{NDF}$ : 1.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.285+/-3.930  $\chi^2/\text{NDF}$ : 10.2/9

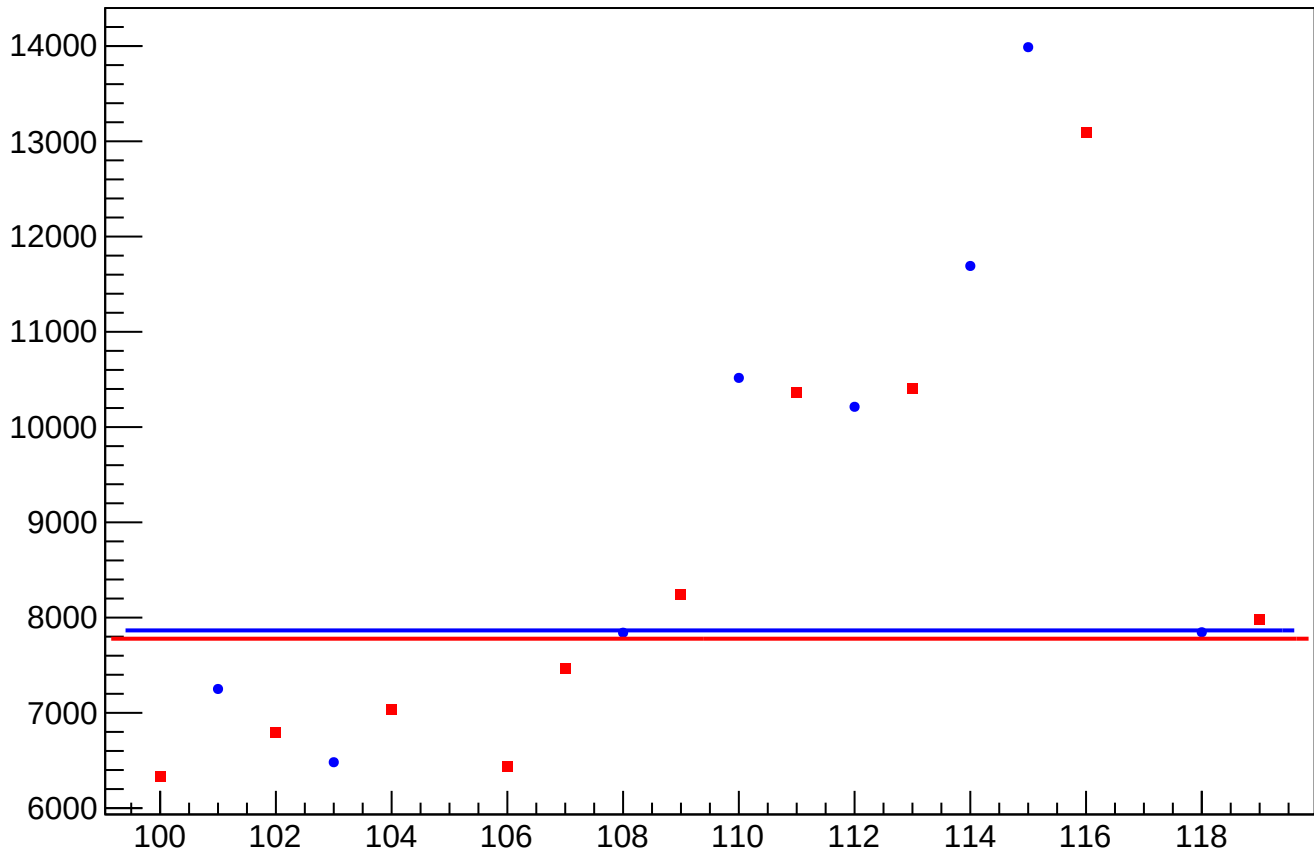
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.080+/-2.931  $\chi^2/\text{NDF}$ : 13.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aY\_4ecY\_avg\_rms vs Slug



Right In: 7865.587+/-3.111  $\chi^2/\text{NDF}$ : 243693.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7778.432+/-2.779  $\chi^2/\text{NDF}$ : 278292.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

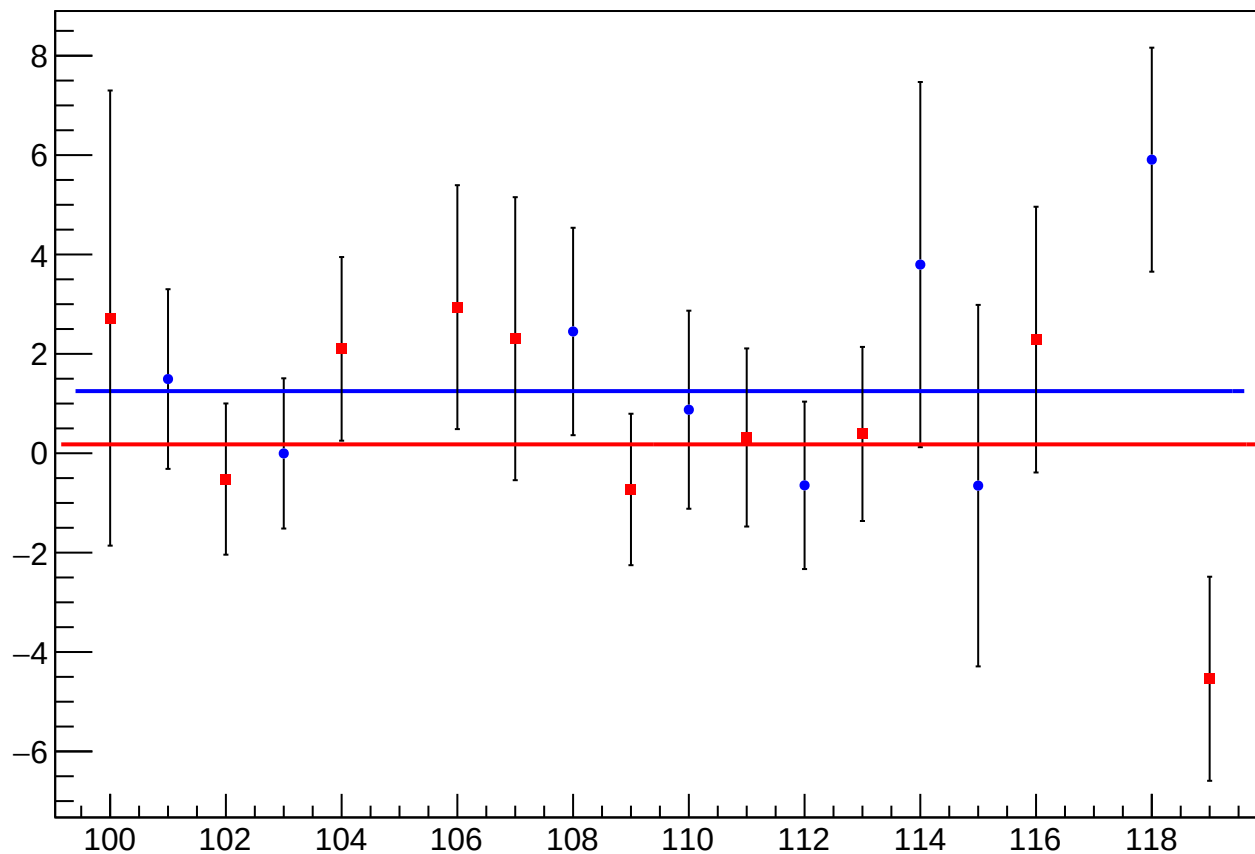
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7817.120+/-2.073  $\chi^2/\text{NDF}$ : 522422.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm\_4aY\_4ecY\_dd\_mean vs Slug



Right In: 1.250 $\pm$ 0.721  $\chi^2$ /NDF: 7.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.179 $\pm$ 0.632  $\chi^2$ /NDF: 9.7/9

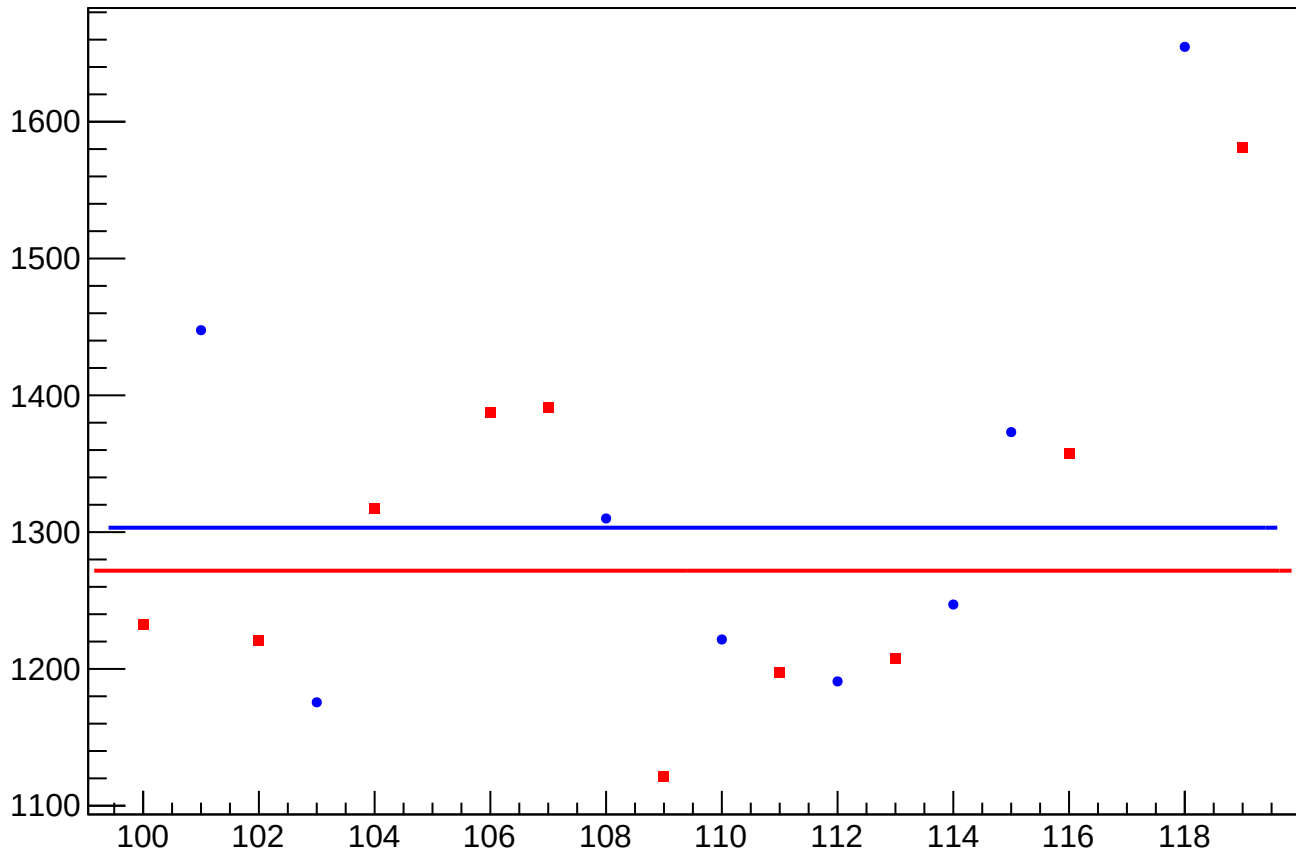
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.644 $\pm$ 0.475  $\chi^2$ /NDF: 18.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4ecY\_dd\_rms vs Slug



Right In: 1303.238 $\pm$ 0.510  $\chi^2$ /NDF: 89134.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1271.805 $\pm$ 0.447  $\chi^2$ /NDF: 84656.8/9

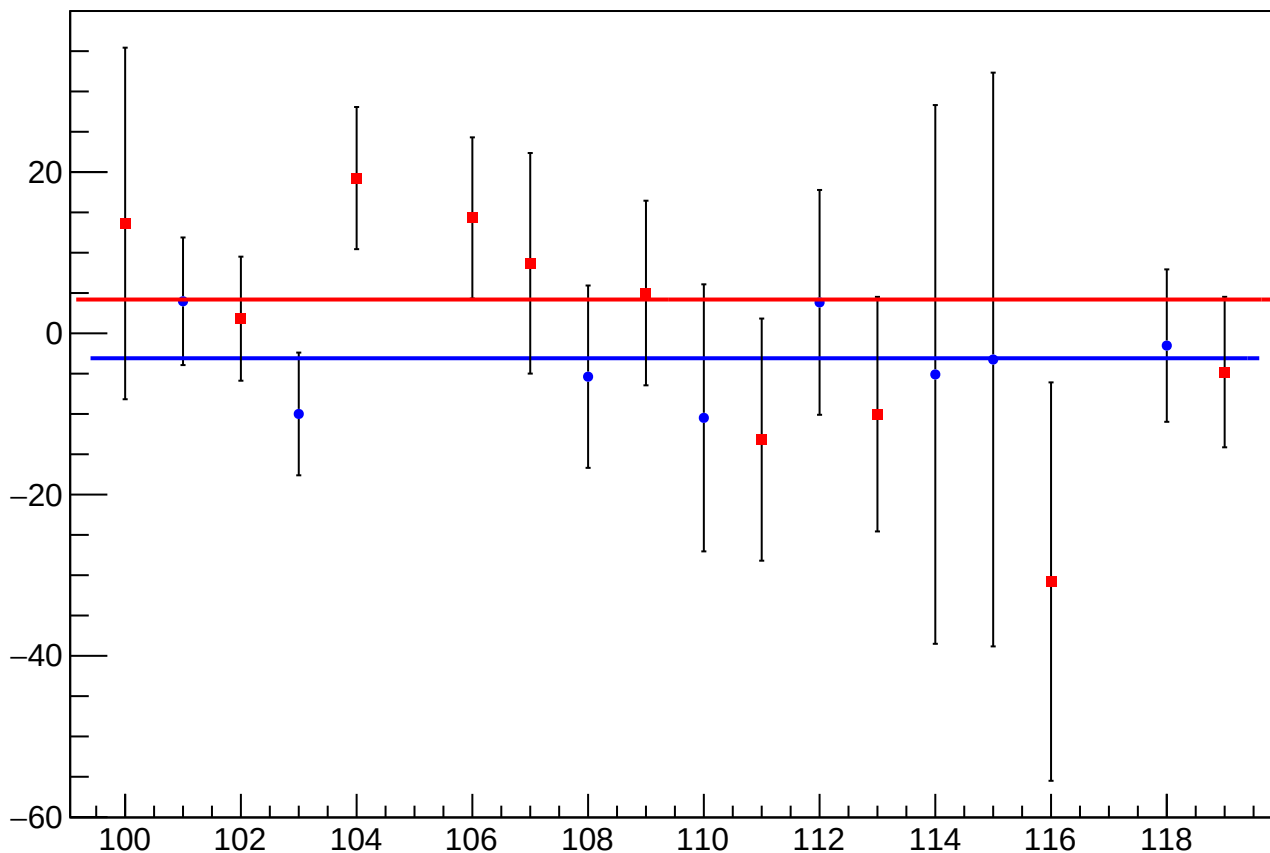
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1285.454 $\pm$ 0.336  $\chi^2$ /NDF: 175941.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4eY\_4ecY\_avg\_mean vs Slug



Right In: -3.090 $\pm$ 3.993  $\chi^2$ /NDF: 2.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.194 $\pm$ 3.601  $\chi^2$ /NDF: 9.6/9

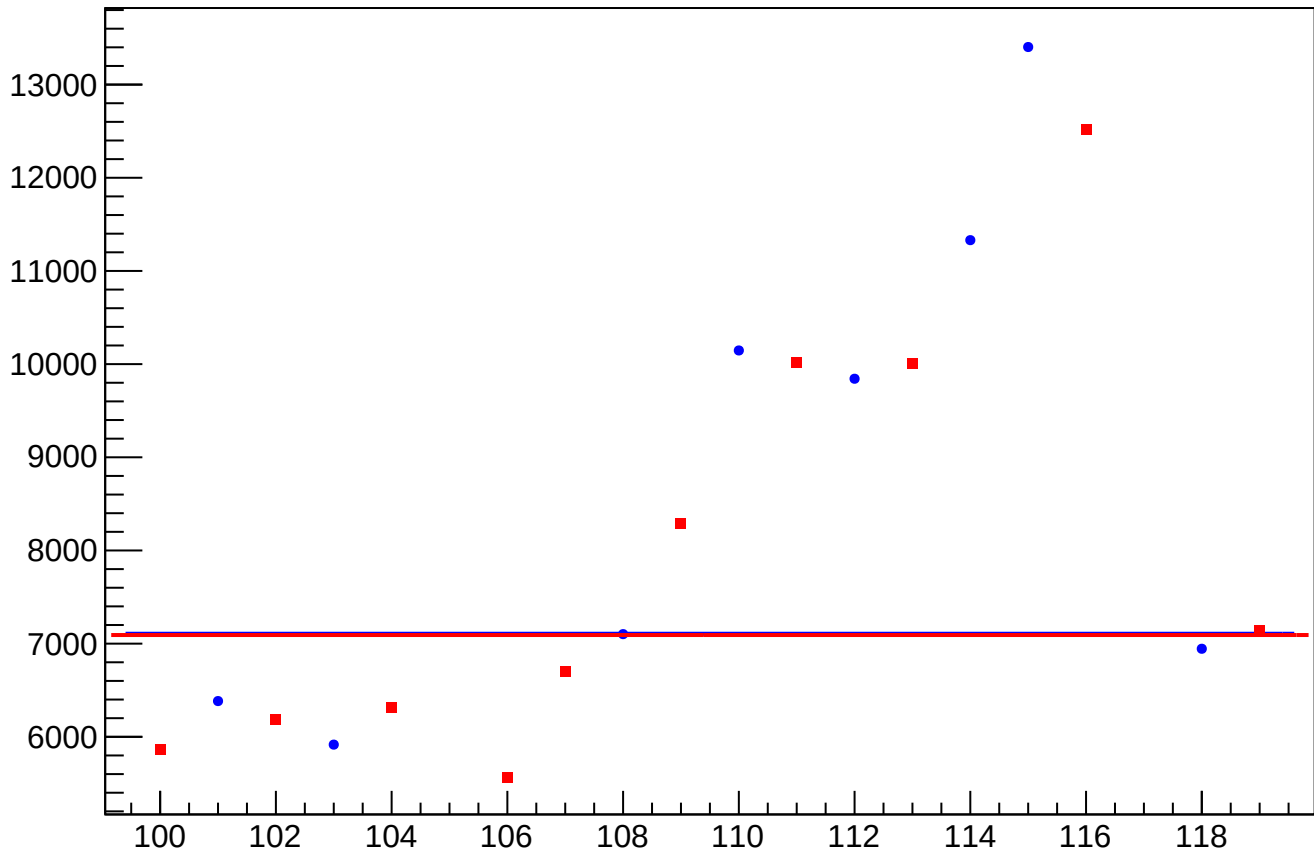
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.927 $\pm$ 2.674  $\chi^2$ /NDF: 13.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4eY\_4ecY\_avg\_rms vs Slug



Right In: 7106.265+/-2.823  $\chi^2/\text{NDF}$ : 305200.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7092.574+/-2.546  $\chi^2/\text{NDF}$ : 372256.7/9

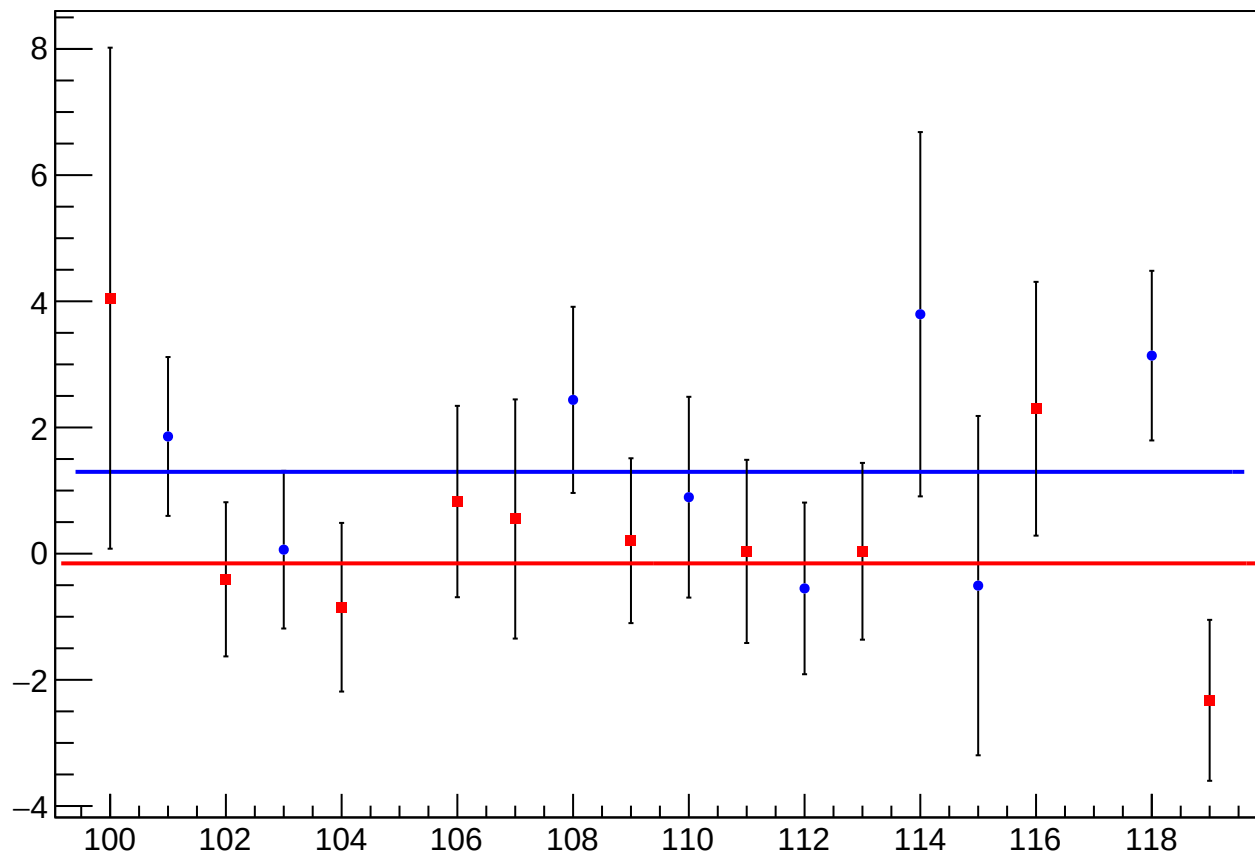
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7098.714+/-1.891  $\chi^2/\text{NDF}$ : 677470.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

diff\_bpm\_4eY\_4ecY\_dd\_mean vs Slug



Right In: 1.297 $\pm$ 0.536  $\chi^2$ /NDF: 6.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.154 $\pm$ 0.475  $\chi^2$ /NDF: 6.5/9

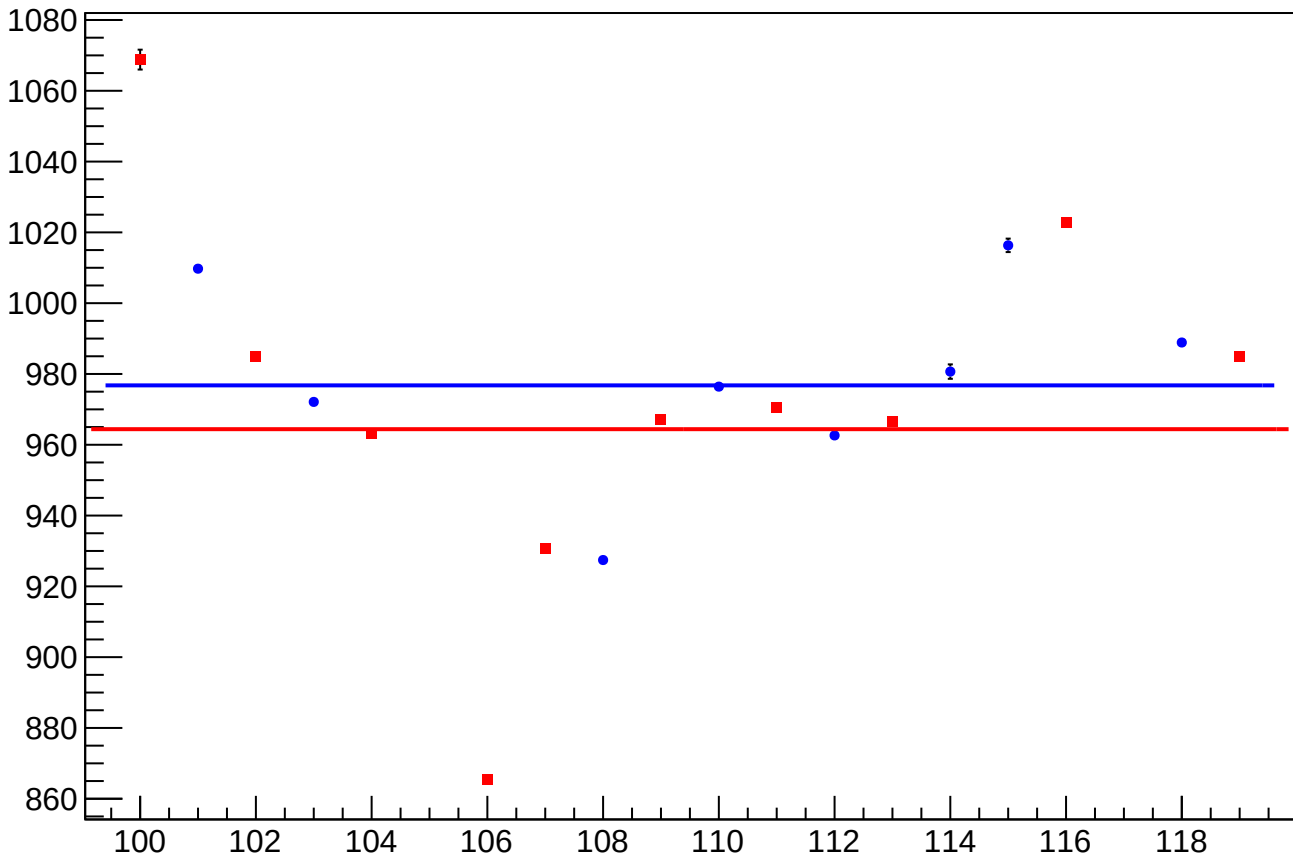
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.483 $\pm$ 0.355  $\chi^2$ /NDF: 17.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4eY\_4ecY\_dd\_rms vs Slug



Right In: 976.777 $\pm$ 0.379  $\chi^2$ /NDF: 4450.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 964.405 $\pm$ 0.336  $\chi^2$ /NDF: 13327.7/9

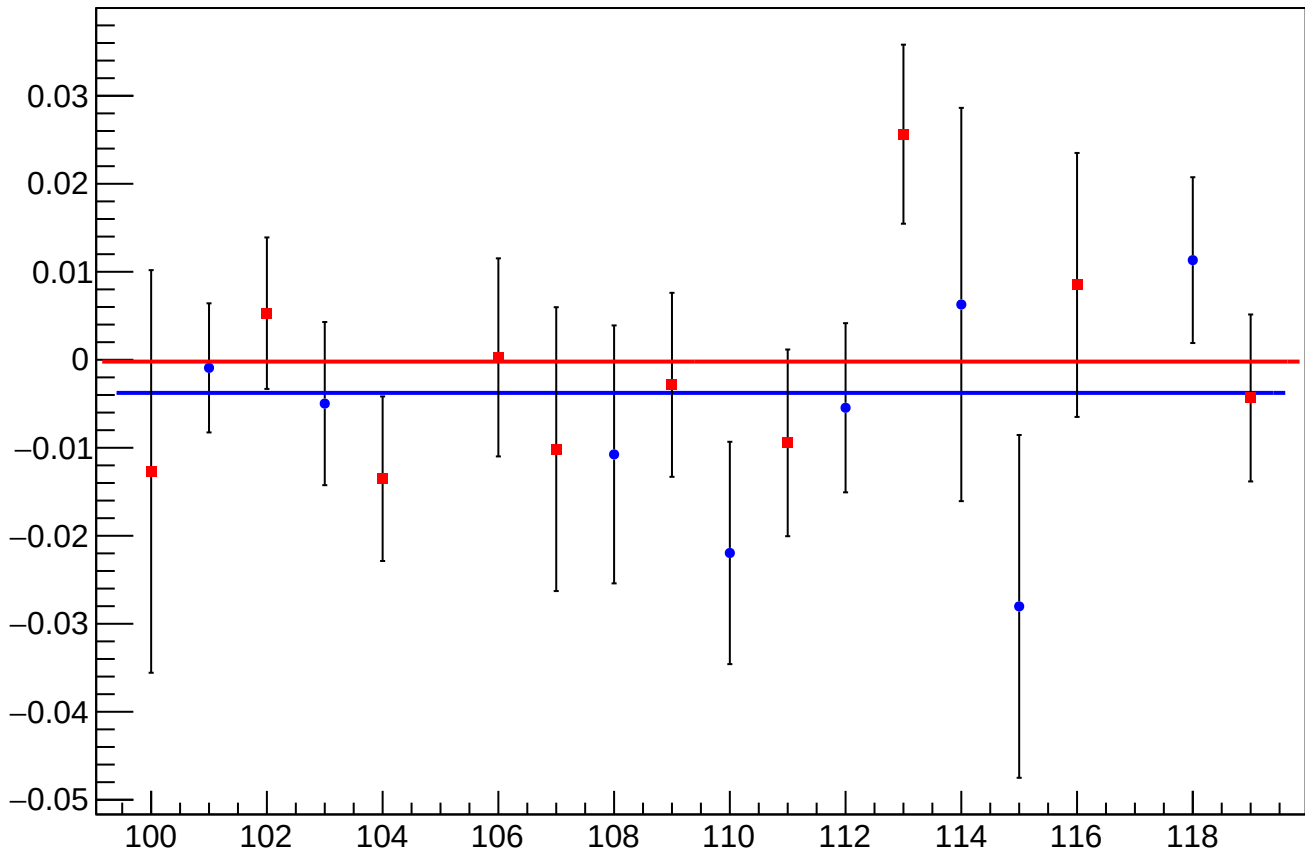
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 969.841 $\pm$ 0.251  $\chi^2$ /NDF: 18375.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_dispE\_bpm12X\_mean vs Slug



Right In: -0.004 $\pm$ 0.004  $\chi^2$ /NDF: 6.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.003  $\chi^2$ /NDF: 10.9/9

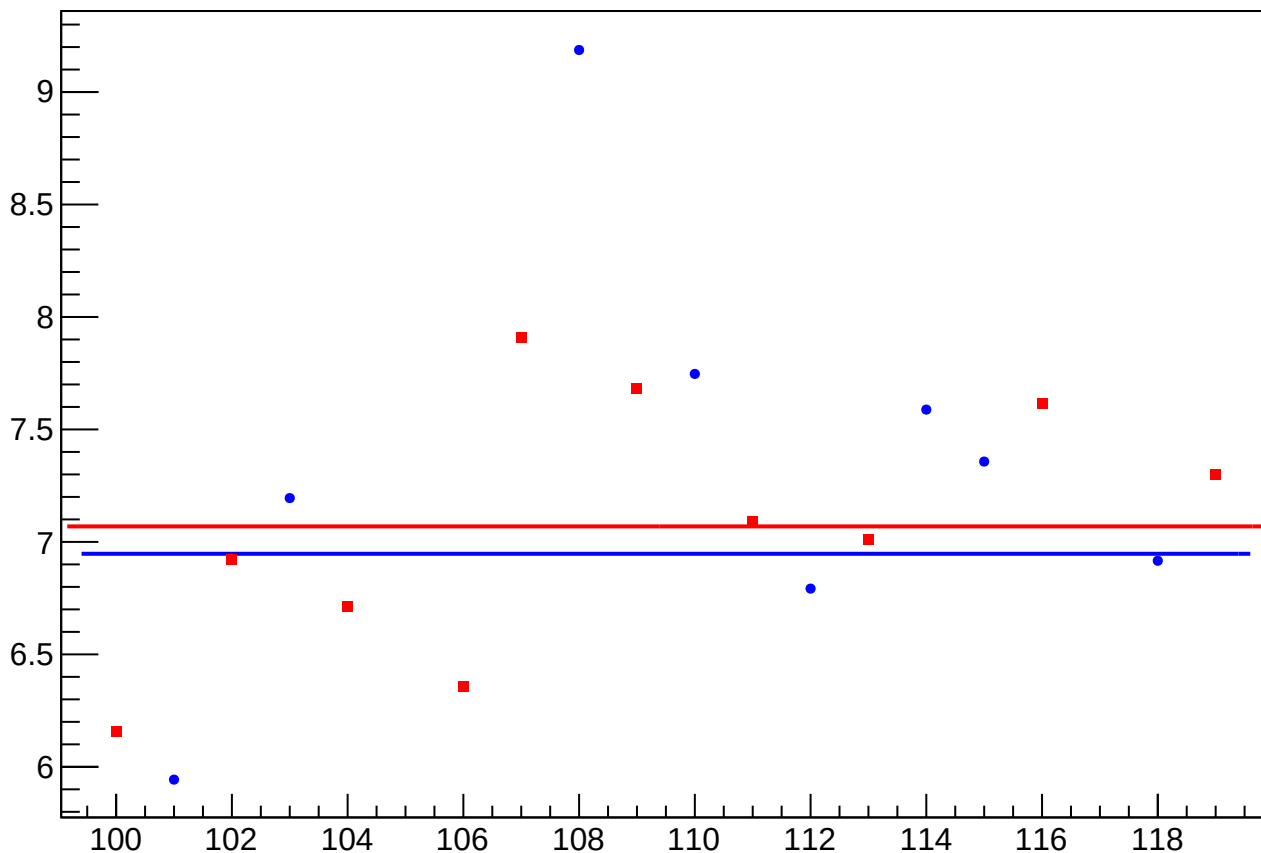
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.002 $\pm$ 0.003  $\chi^2$ /NDF: 18.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_dispE\_bpm12X\_rms vs Slug



Right In: 6.947 $\pm$ 0.003  $\chi^2$ /NDF: 96675.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7.069 $\pm$ 0.002  $\chi^2$ /NDF: 30871.2/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

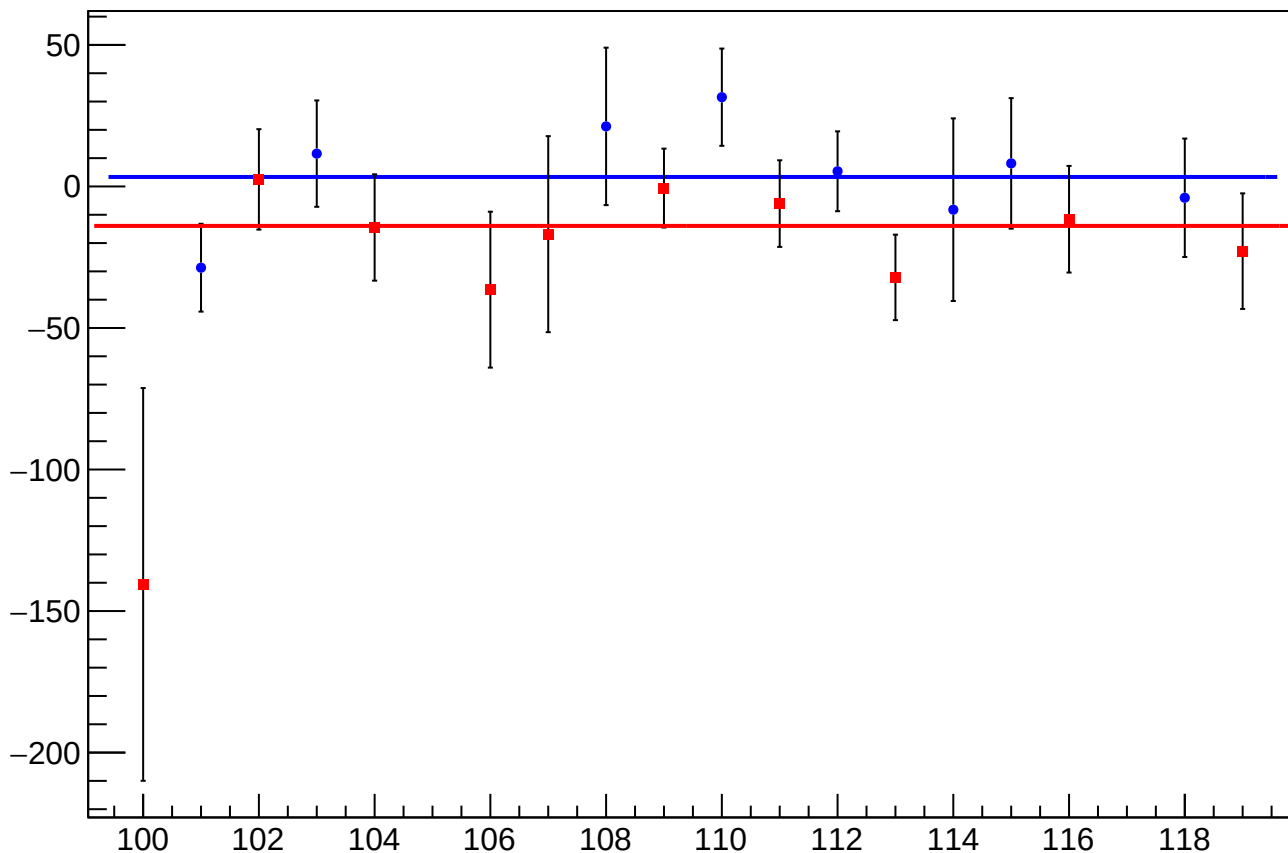
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.014 $\pm$ 0.002  $\chi^2$ /NDF: 128645.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_targ\_positionX\_mean vs Slug



Right In: 3.355+/-6.769  $\chi^2/\text{NDF}$ : 7.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13.934+/-6.041  $\chi^2/\text{NDF}$ : 7.7/9

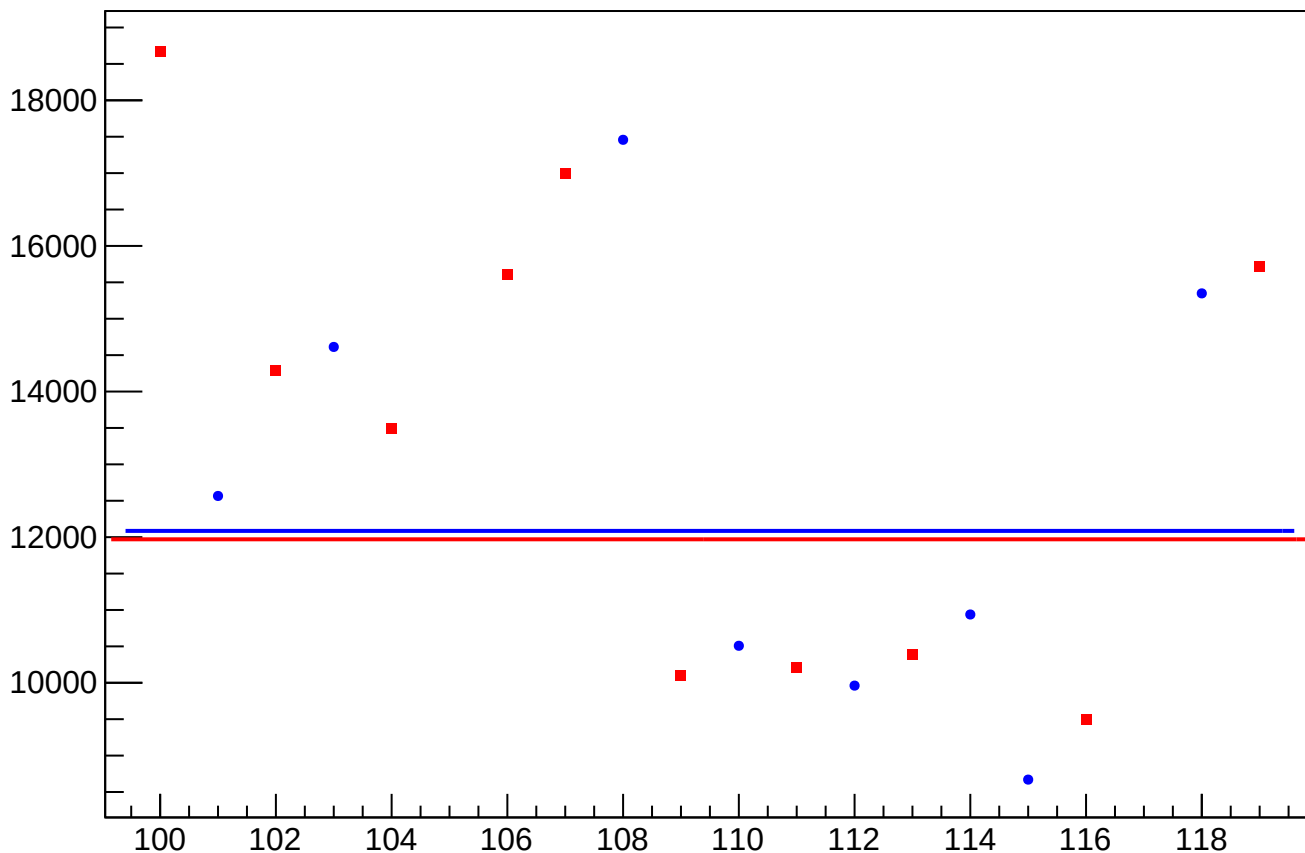
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.269+/-4.507  $\chi^2/\text{NDF}$ : 19.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_positionX\_rms vs Slug



Right In: 12086.115+/-4.787  $\chi^2/\text{NDF}$ : 270087.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11970.494+/-4.272  $\chi^2/\text{NDF}$ : 328728.7/9

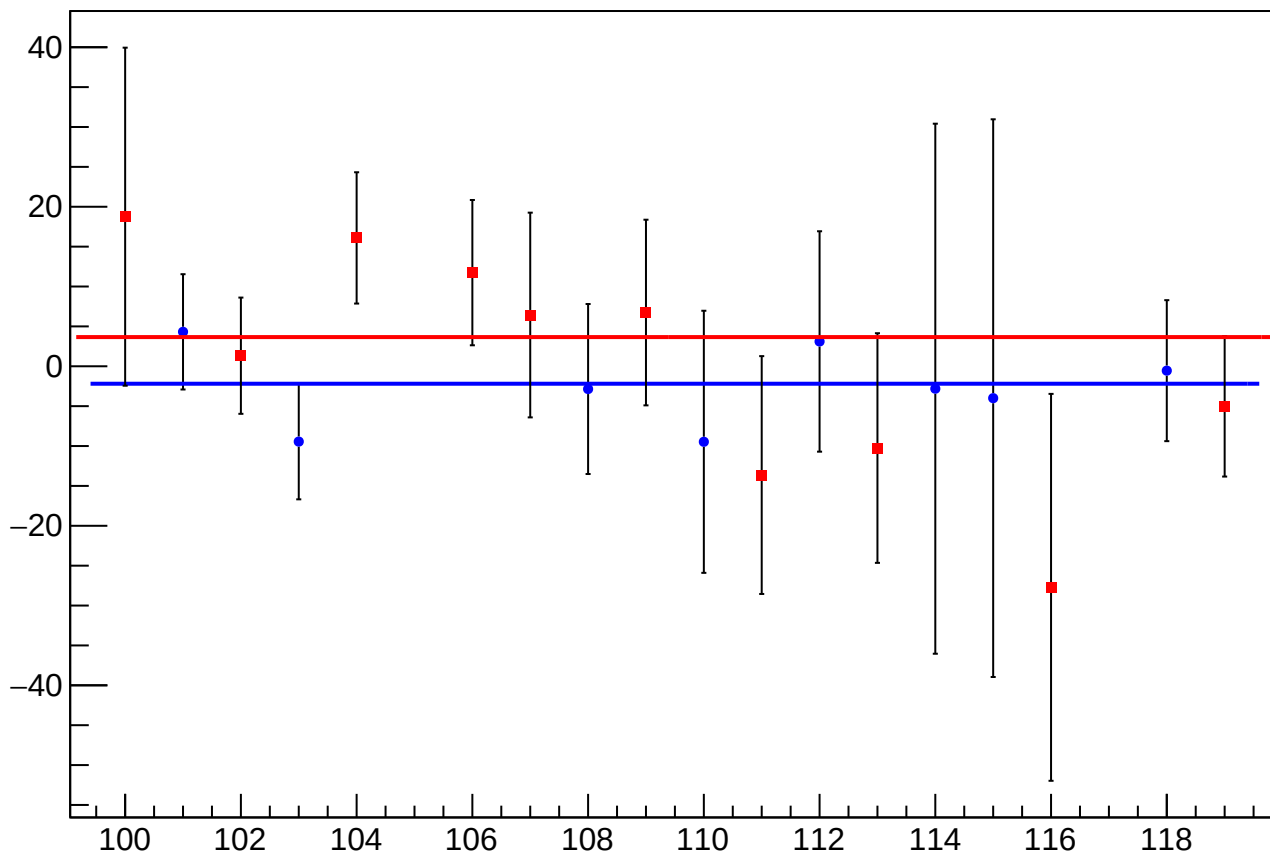
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12021.755+/-3.187  $\chi^2/\text{NDF}$ : 599141.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_positionY\_mean vs Slug



Right In: -2.189+/-3.766  $\chi^2/\text{NDF}$ : 2.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.660+/-3.425  $\chi^2/\text{NDF}$ : 8.7/9

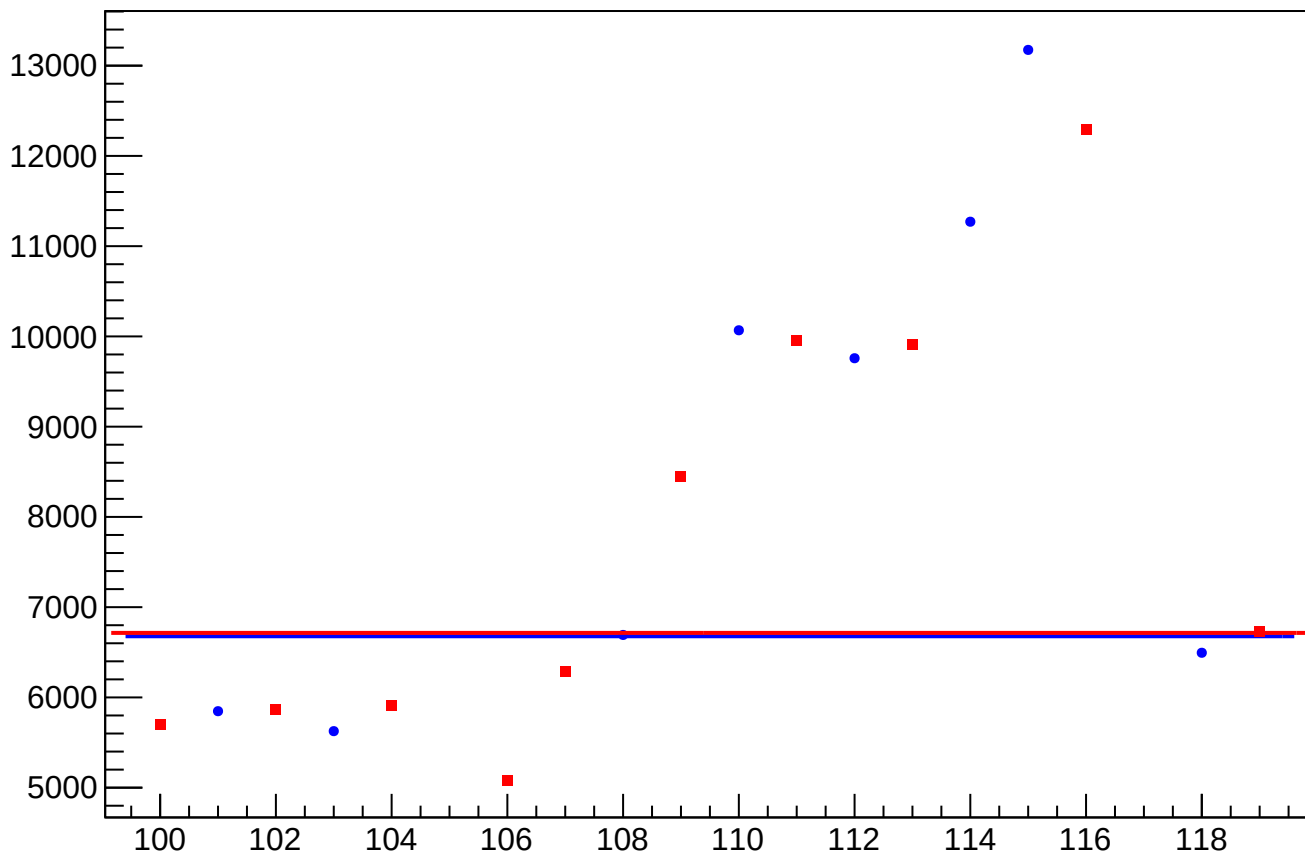
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.012+/-2.534  $\chi^2/\text{NDF}$ : 12.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_positionY\_rms vs Slug



Right In: 6677.709+/-2.663  $\chi^2/\text{NDF}$ : 361297.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6714.930+/-2.422  $\chi^2/\text{NDF}$ : 460235.4/9

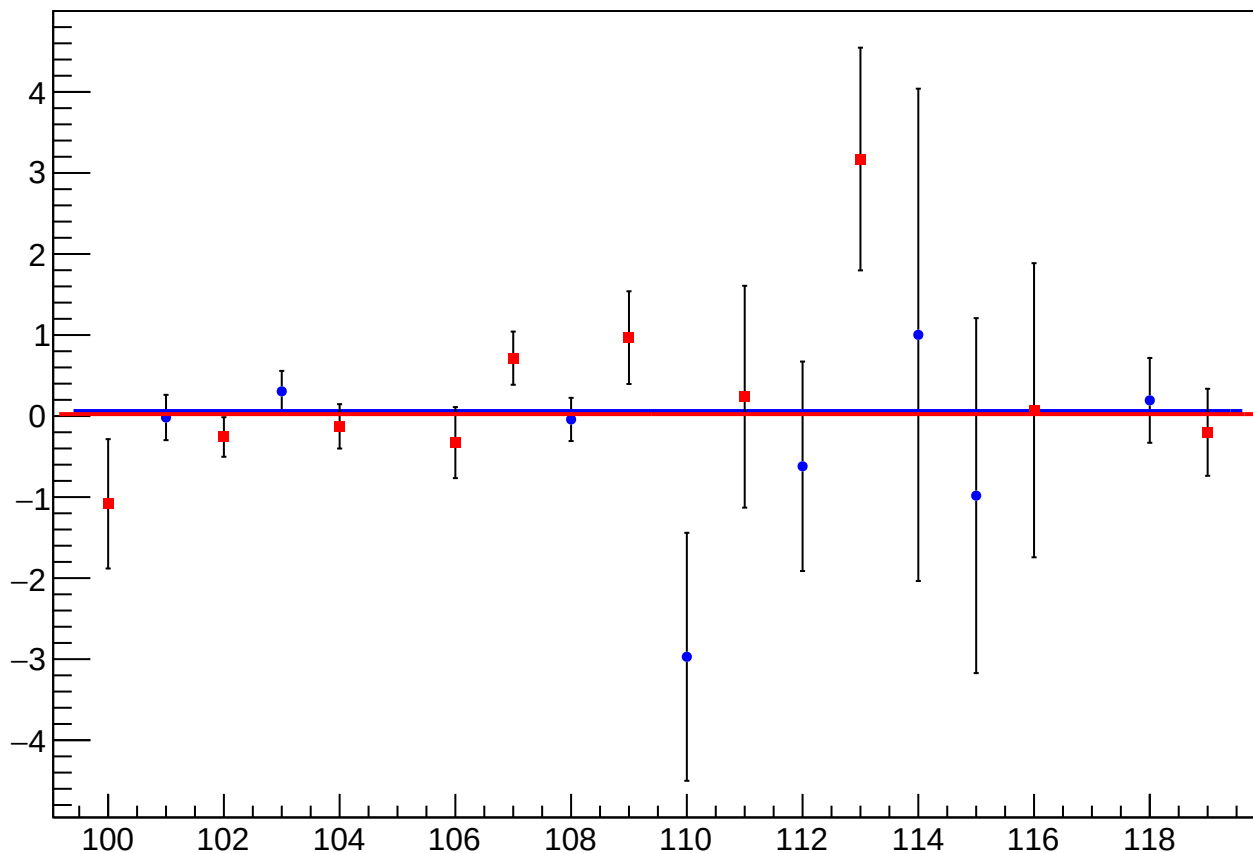
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6698.081+/-1.792  $\chi^2/\text{NDF}$ : 821640.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_thetaX\_mean vs Slug



Right In: 0.062 $\pm$ 0.145  $\chi^2$ /NDF: 5.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.024 $\pm$ 0.136  $\chi^2$ /NDF: 16.8/9

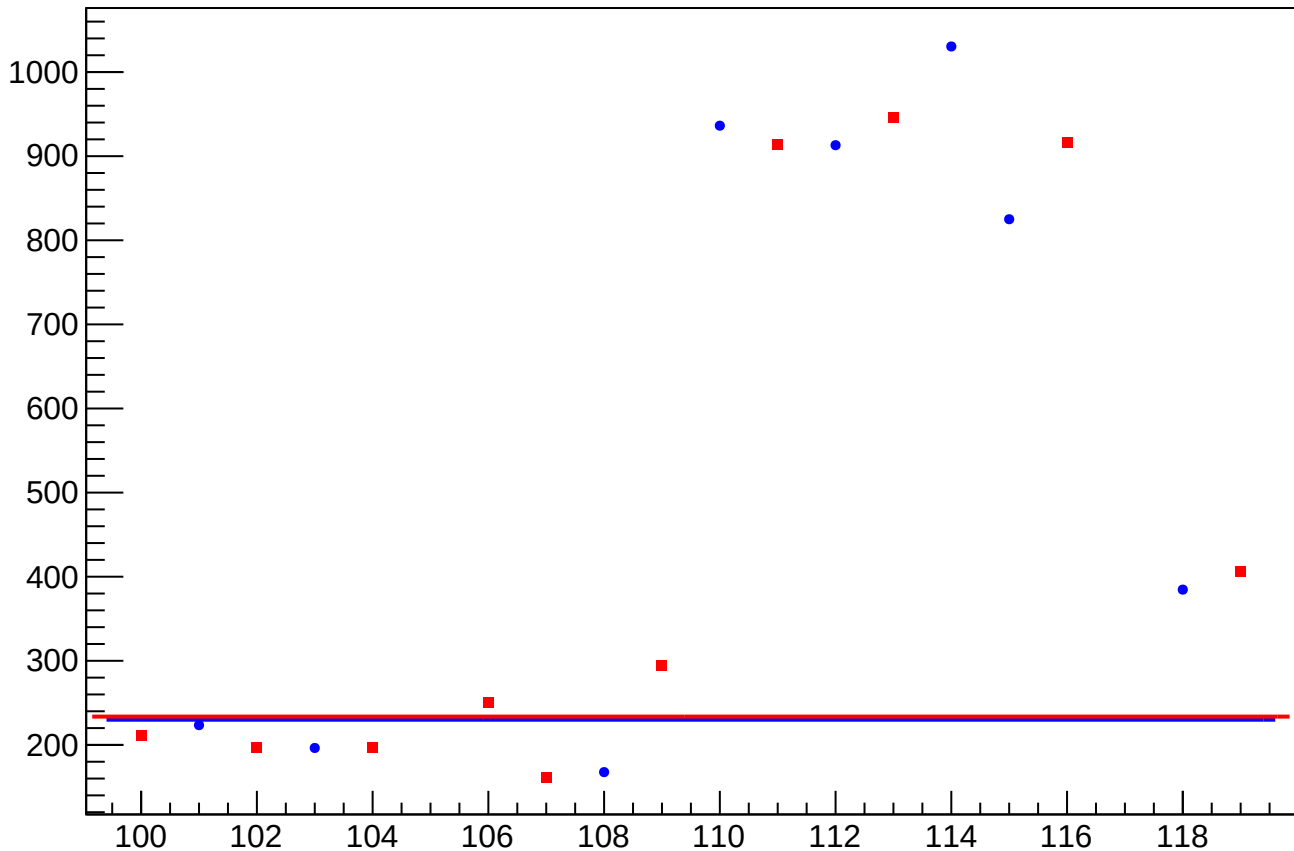
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.042 $\pm$ 0.099  $\chi^2$ /NDF: 22.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_targ\_thetaX\_rms vs Slug



Right In: 229.982 $\pm$ 0.103  $\chi^2$ /NDF: 1591017.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 233.662 $\pm$ 0.096  $\chi^2$ /NDF: 1729365.0/9

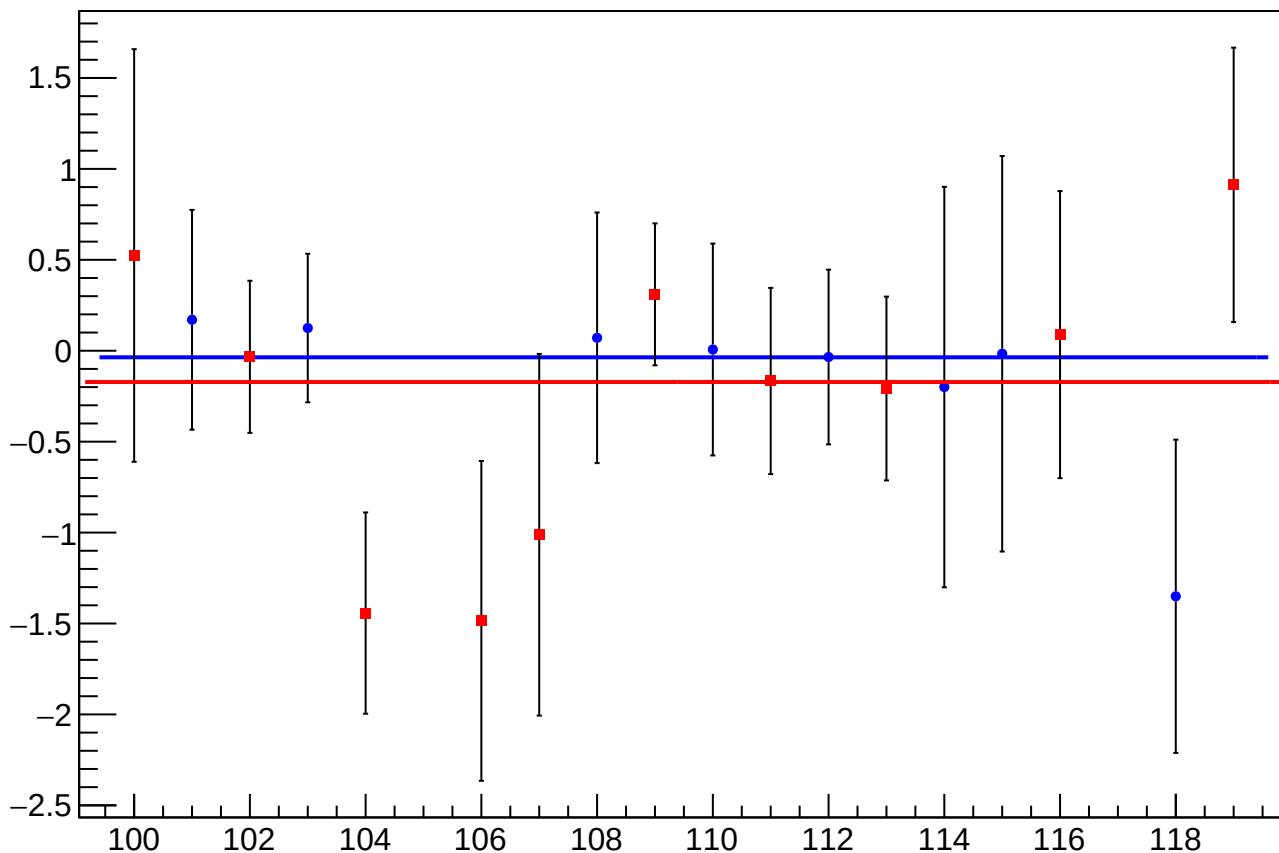
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 231.941 $\pm$ 0.070  $\chi^2$ /NDF: 3321067.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_targ\_thetaY\_mean vs Slug



Right In:  $-0.036 \pm 0.217$   $\chi^2/\text{NDF}$ : 2.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.172 \pm 0.183$   $\chi^2/\text{NDF}$ : 12.4/9

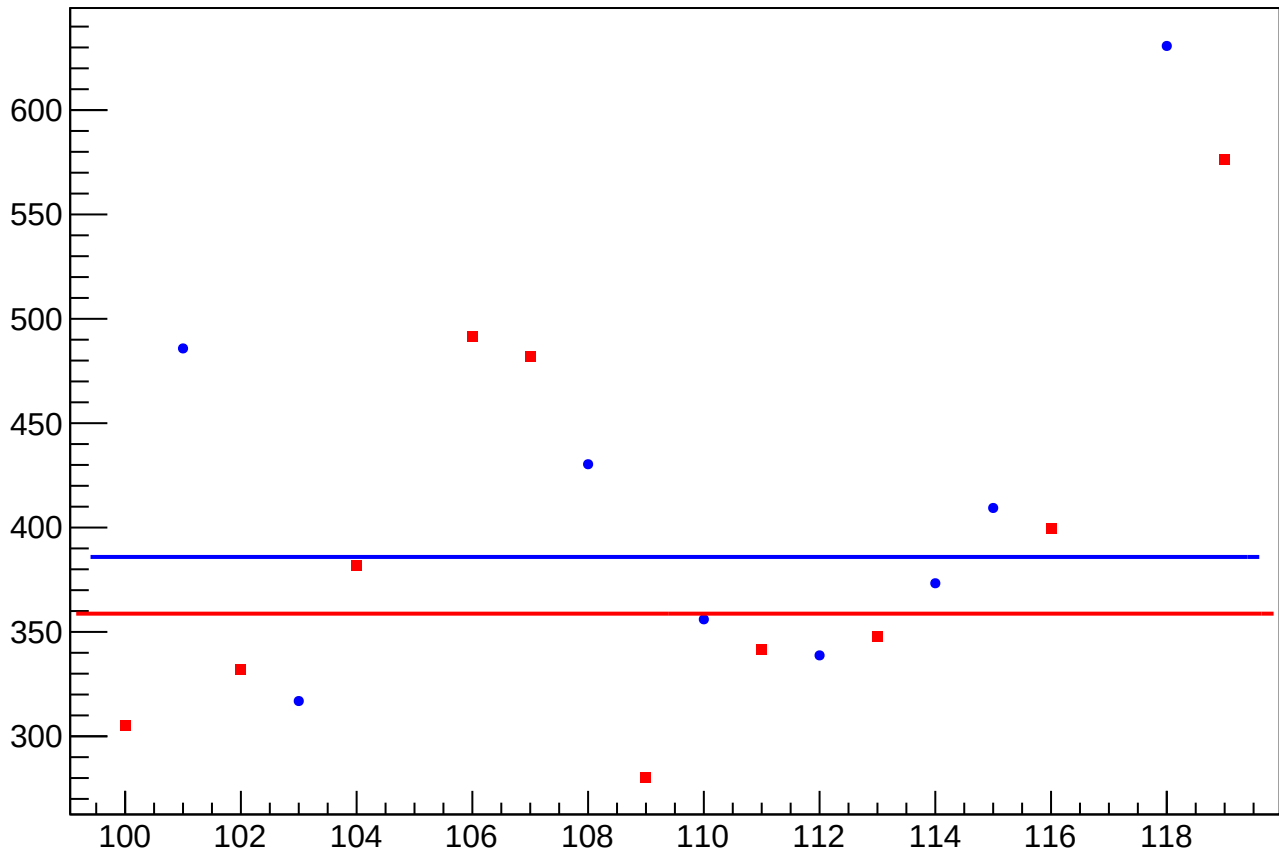
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.115 \pm 0.140$   $\chi^2/\text{NDF}$ : 15.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_thetaY\_rms vs Slug



Right In: 385.919 $\pm$ 0.154  $\chi^2$ /NDF: 307395.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 358.750 $\pm$ 0.130  $\chi^2$ /NDF: 347479.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

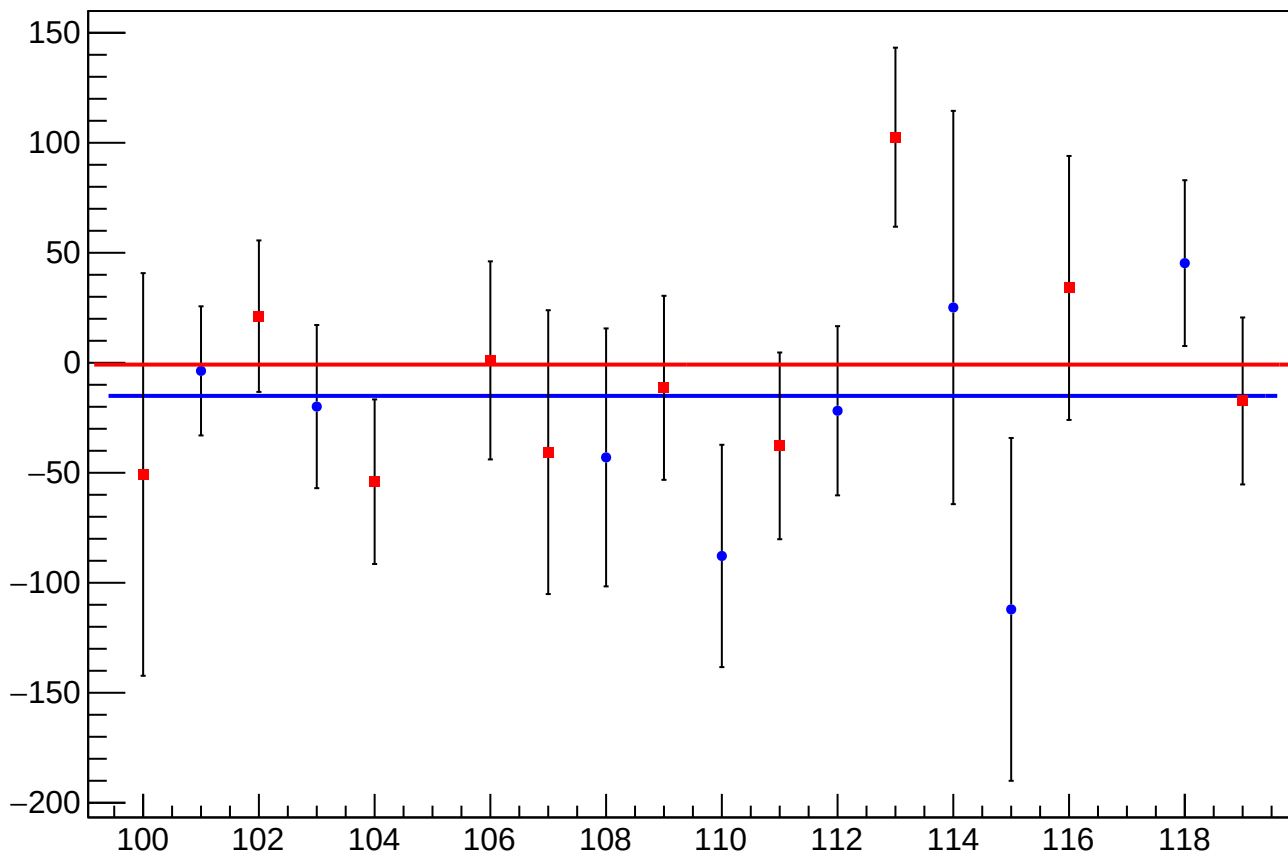
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 370.043 $\pm$ 0.099  $\chi^2$ /NDF: 673112.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpmE\_mean vs Slug



Right In: -15.046 $\pm$ 15.355  $\chi^2$ /NDF: 6.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.822 $\pm$ 13.983  $\chi^2$ /NDF: 10.9/9

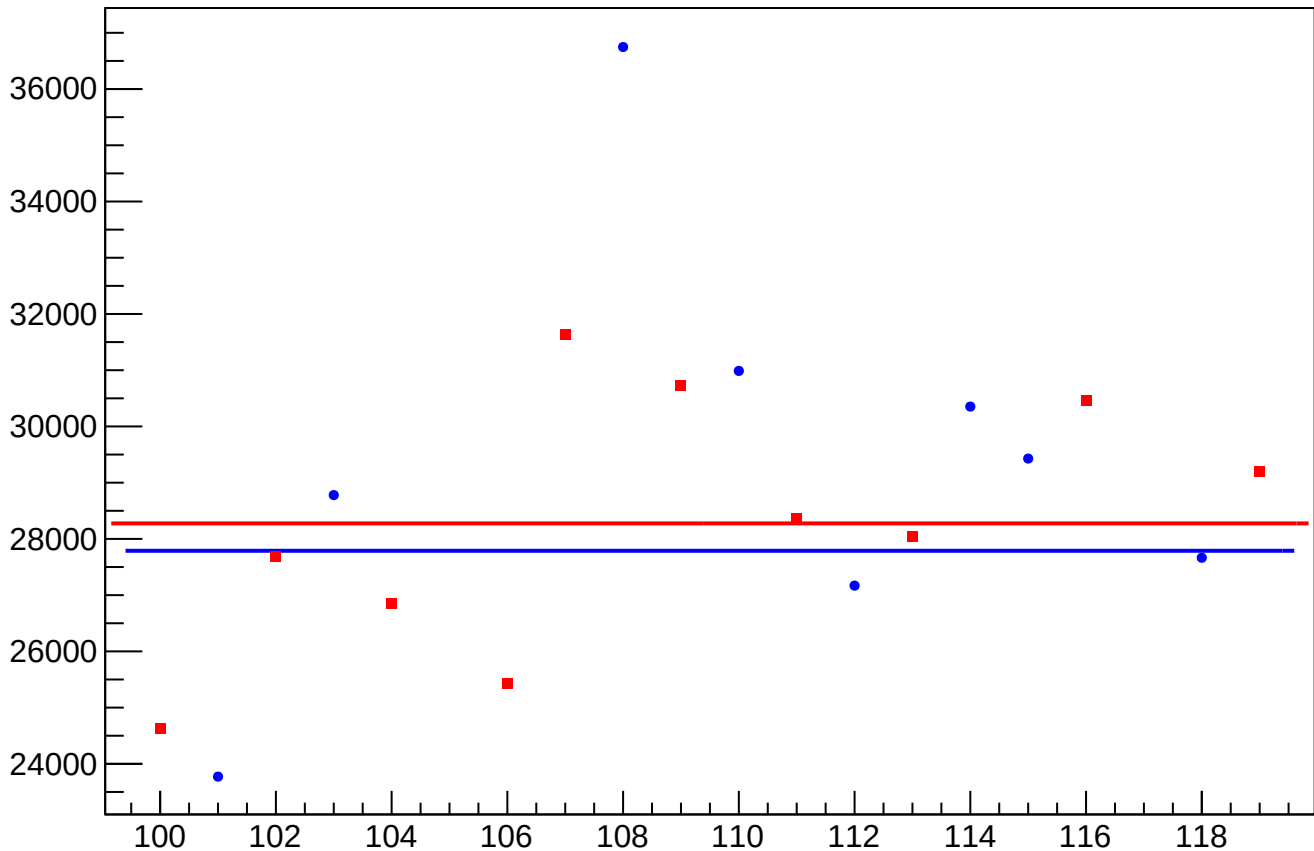
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -7.270 $\pm$ 10.339  $\chi^2$ /NDF: 18.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpmE\_rms vs Slug



Right In: 27788.972 $\pm$ 10.858  $\chi^2$ /NDF: 96675.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28275.825 $\pm$ 9.887  $\chi^2$ /NDF: 30871.2/9

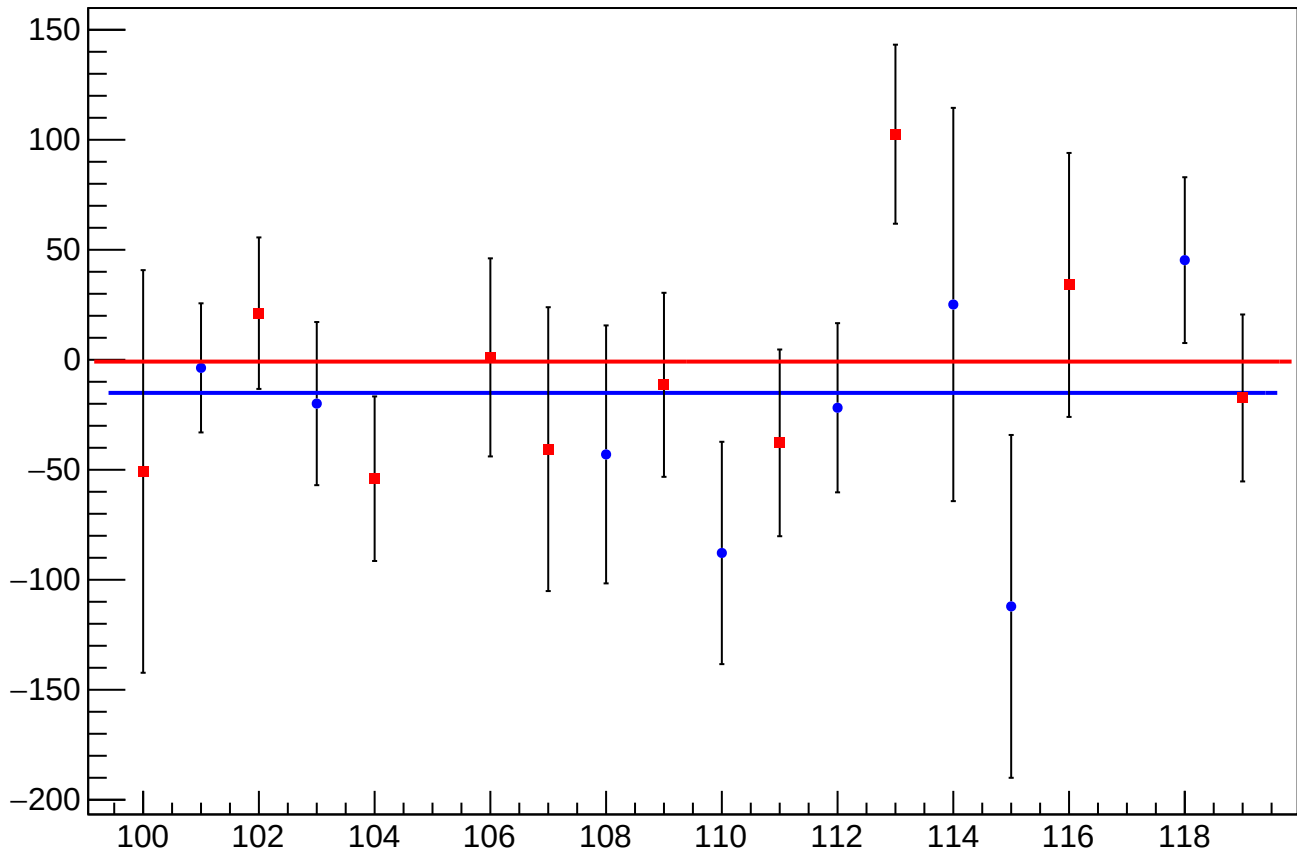
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28055.116 $\pm$ 7.310  $\chi^2$ /NDF: 128645.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpmEX\_mean vs Slug



Right In: -15.046+/-15.355  $\chi^2/\text{NDF}$ : 6.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.822+/-13.983  $\chi^2/\text{NDF}$ : 10.9/9

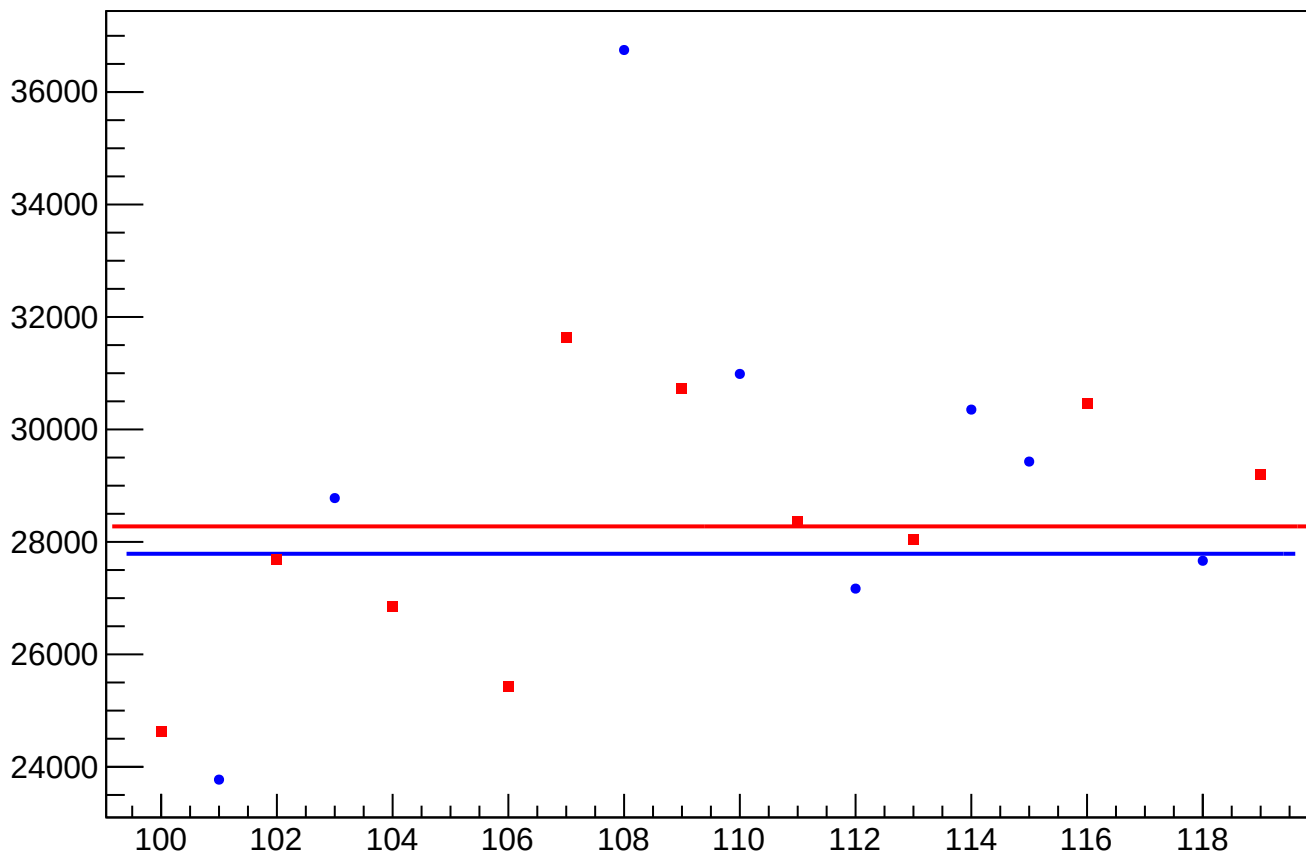
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.270+/-10.339  $\chi^2/\text{NDF}$ : 18.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmEX\_rms vs Slug



Right In: 27788.972 $\pm$ 10.858  $\chi^2$ /NDF: 96675.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28275.825 $\pm$ 9.887  $\chi^2$ /NDF: 30871.2/9

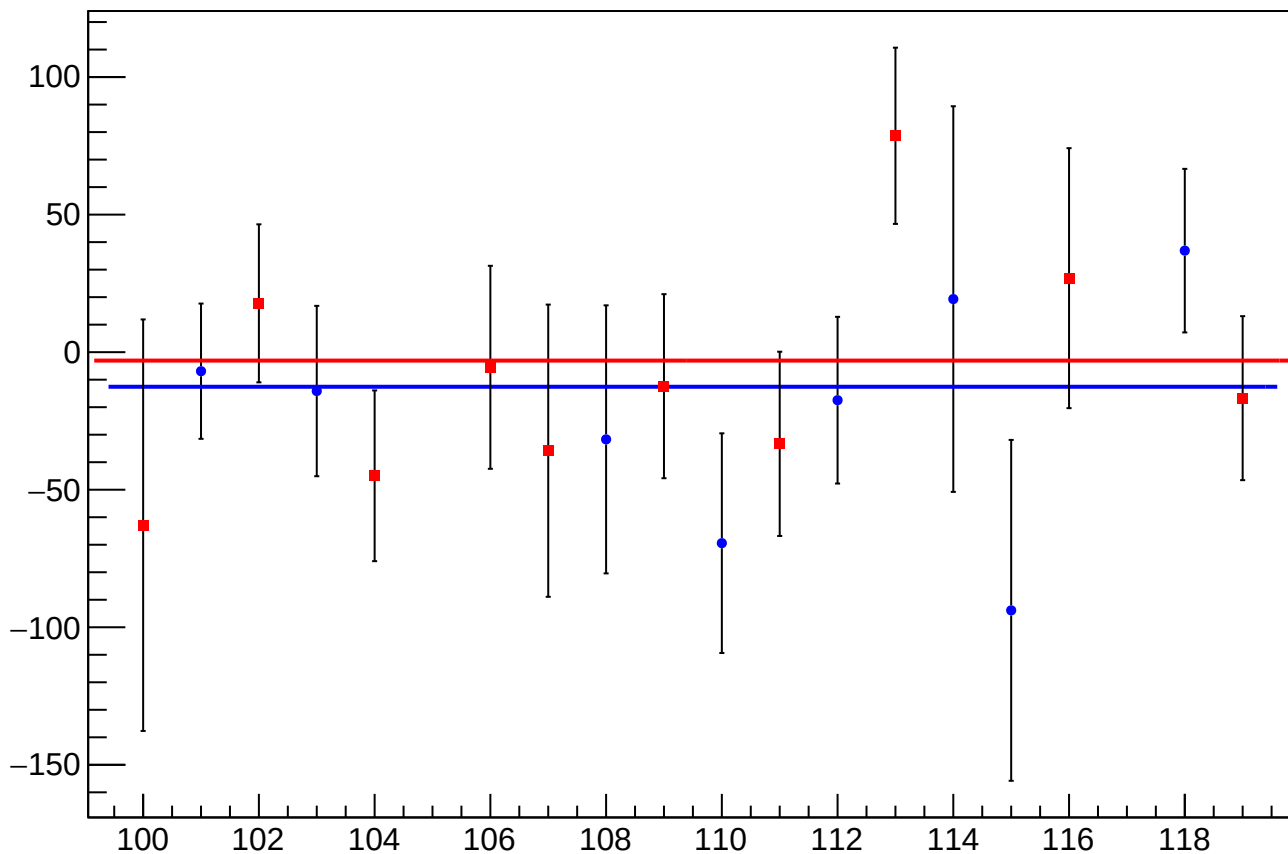
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28055.116 $\pm$ 7.310  $\chi^2$ /NDF: 128645.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpmE\_11X12X\_mean vs Slug



Right In: -12.574+/-12.470  $\chi^2/\text{NDF}$ : 7.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.057+/-11.285  $\chi^2/\text{NDF}$ : 11.4/9

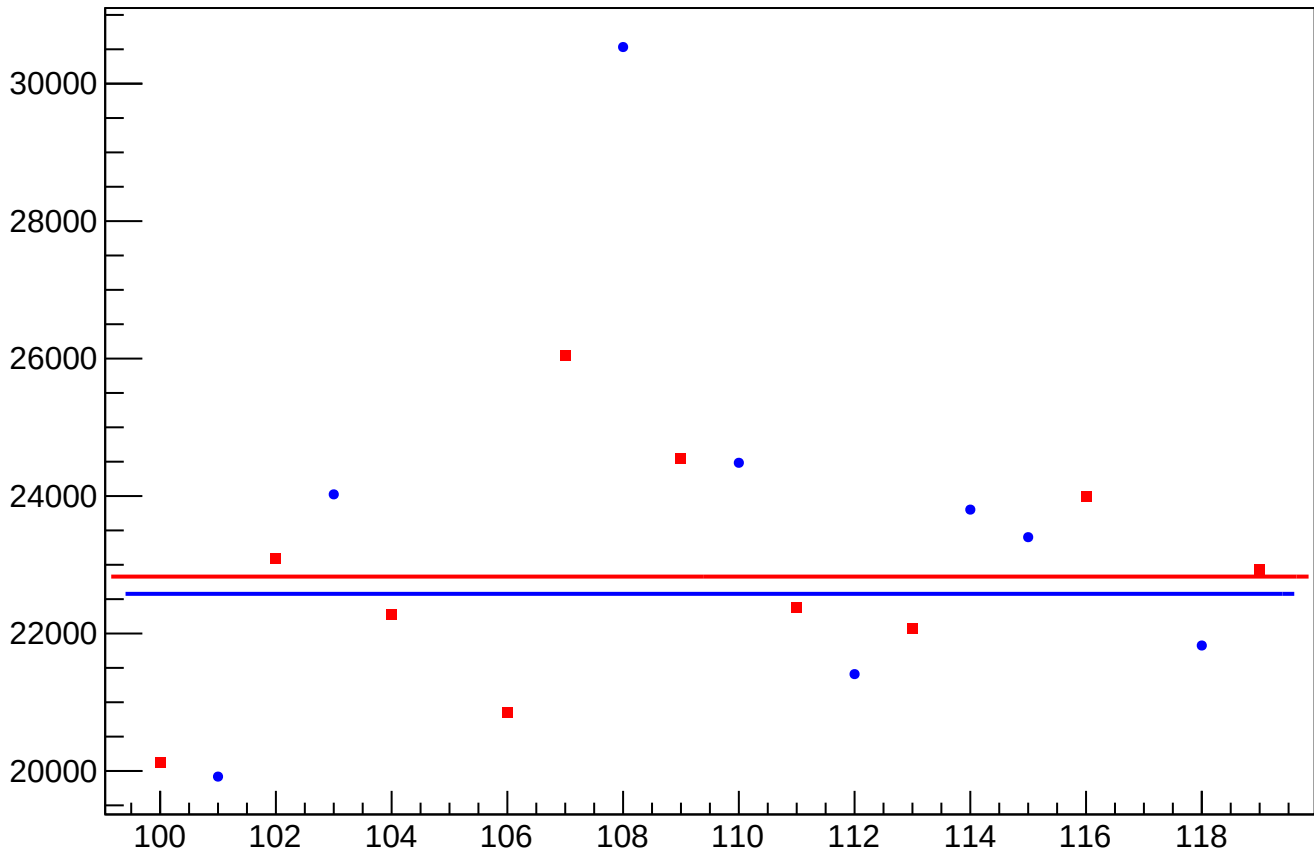
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.342+/-8.367  $\chi^2/\text{NDF}$ : 18.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmE\_11X12X\_rms vs Slug



Right In: 22577.224+/-8.817  $\chi^2/\text{NDF}$ : 90876.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22828.254+/-7.980  $\chi^2/\text{NDF}$ : 24483.2/9

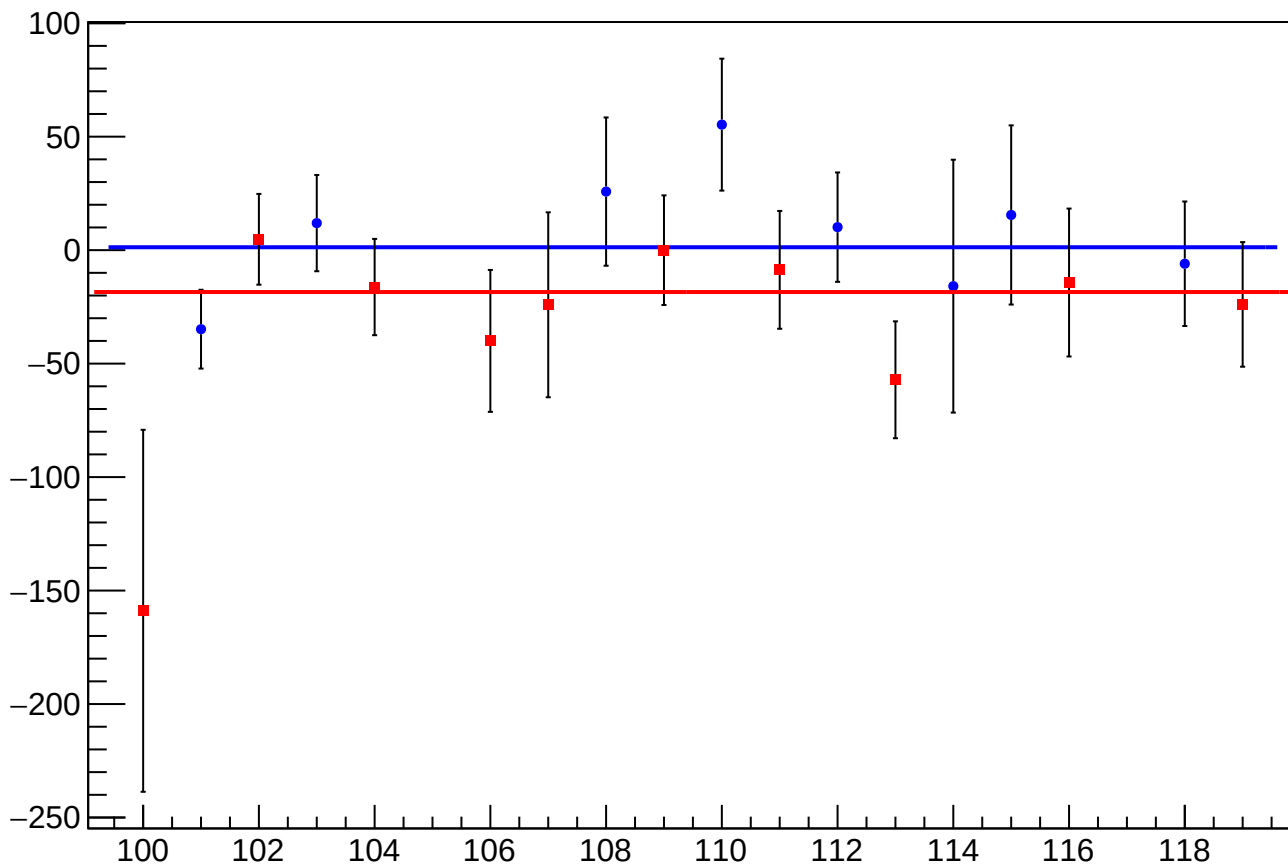
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22715.226+/-5.917  $\chi^2/\text{NDF}$ : 115805.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aesumX\_mean vs Slug



Right In:  $1.277 \pm 9.254$   $\chi^2/\text{NDF}$ : 9.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-18.460 \pm 8.613$   $\chi^2/\text{NDF}$ : 8.0/9

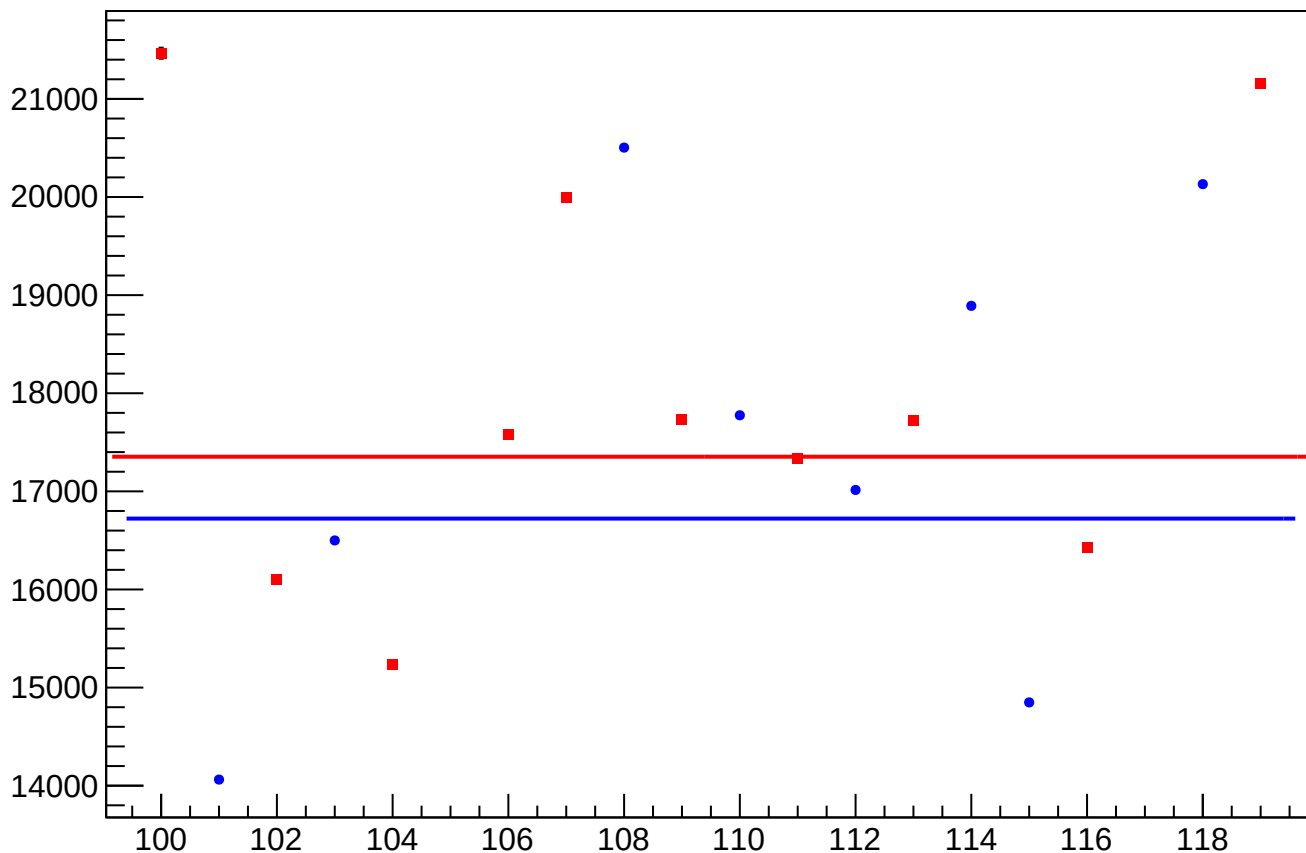
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-9.299 \pm 6.305$   $\chi^2/\text{NDF}$ : 19.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aesumX\_rms vs Slug



Right In: 16722.423+/-6.544  $\chi^2/\text{NDF}$ : 115315.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17353.101+/-6.090  $\chi^2/\text{NDF}$ : 82479.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

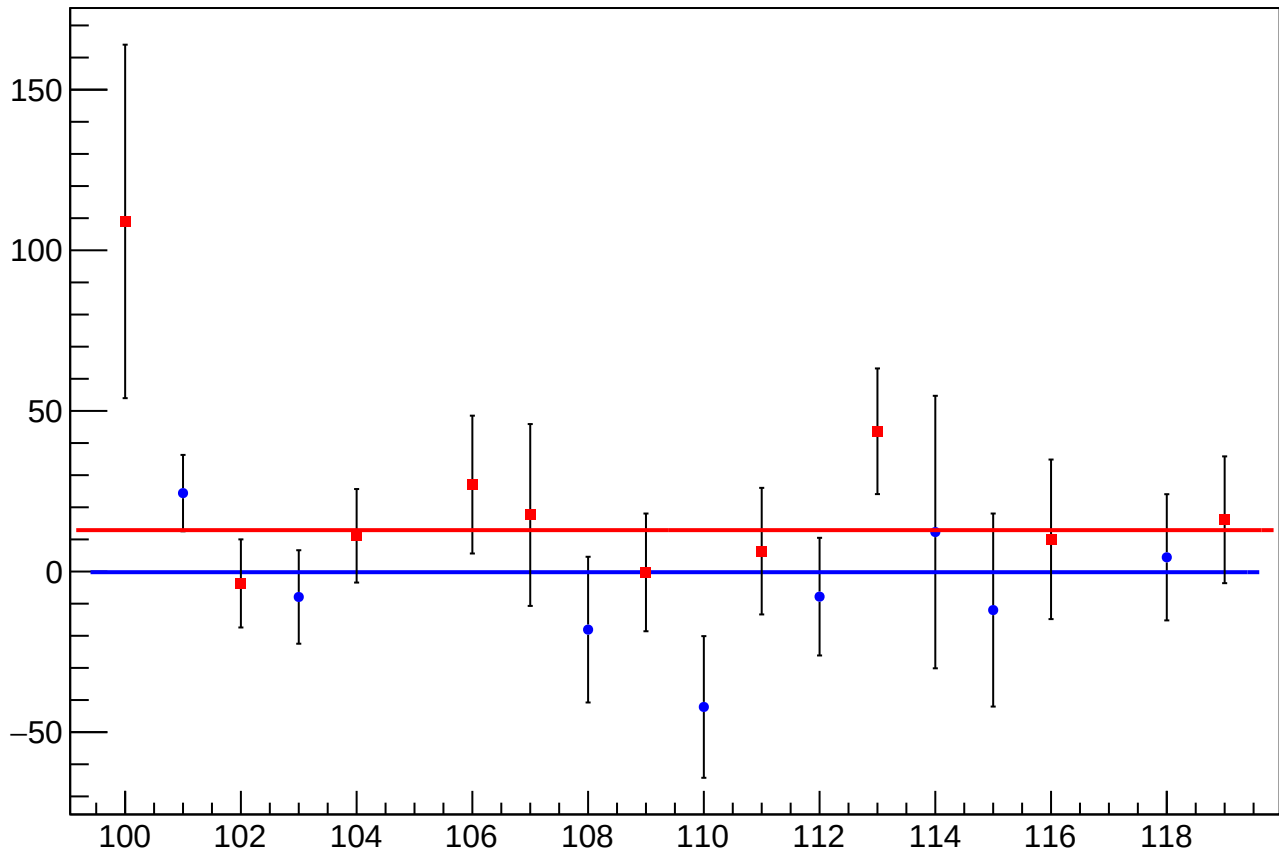
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17060.373+/-4.458  $\chi^2/\text{NDF}$ : 202772.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm4aediX\_mean vs Slug



Right In:  $-0.204 \pm 6.588$   $\chi^2/\text{NDF}$ : 9.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $12.887 \pm 6.185$   $\chi^2/\text{NDF}$ : 8.1/9

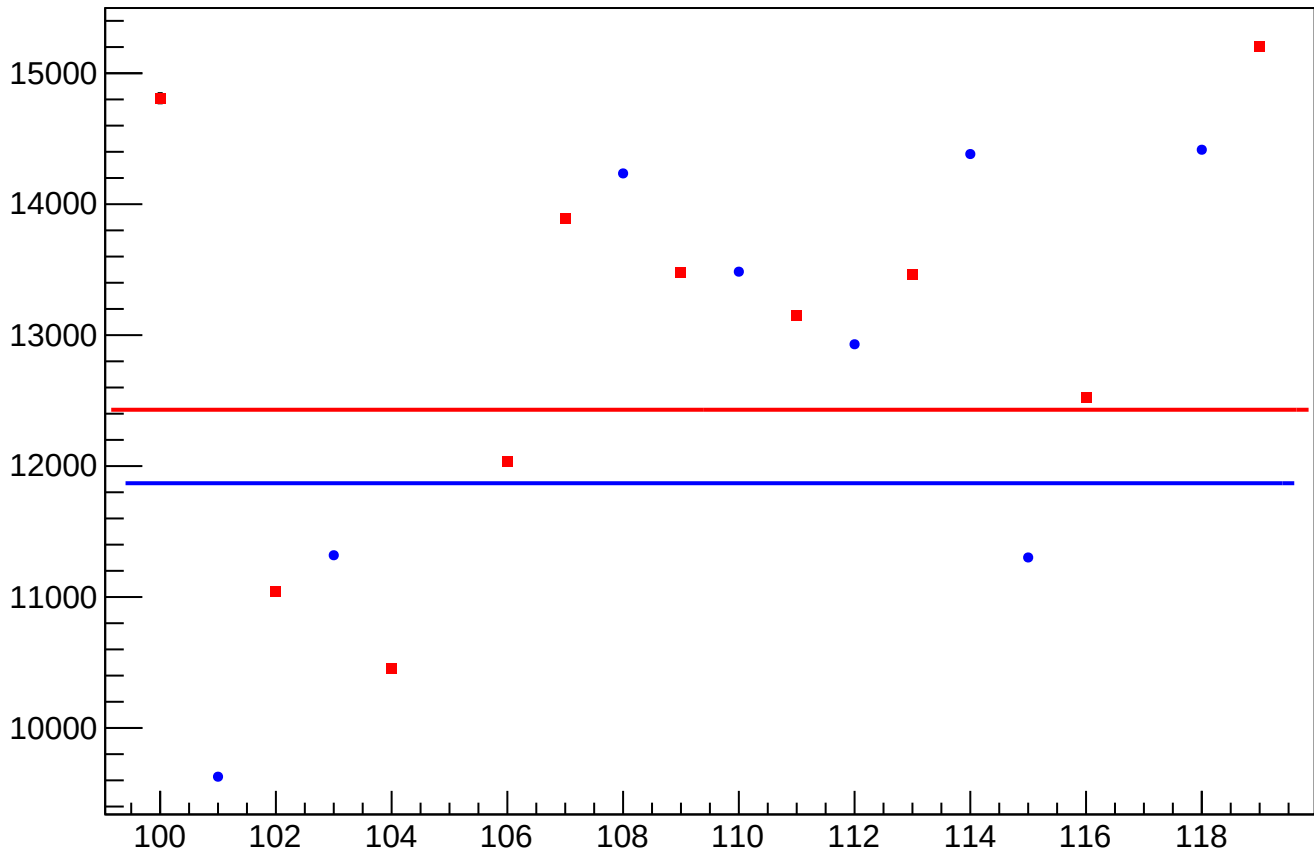
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $6.755 \pm 4.509$   $\chi^2/\text{NDF}$ : 19.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aediffX\_rms vs Slug



Right In: 11869.072+/-4.659  $\chi^2/\text{NDF}$ : 154534.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12430.172+/-4.373  $\chi^2/\text{NDF}$ : 121386.7/9

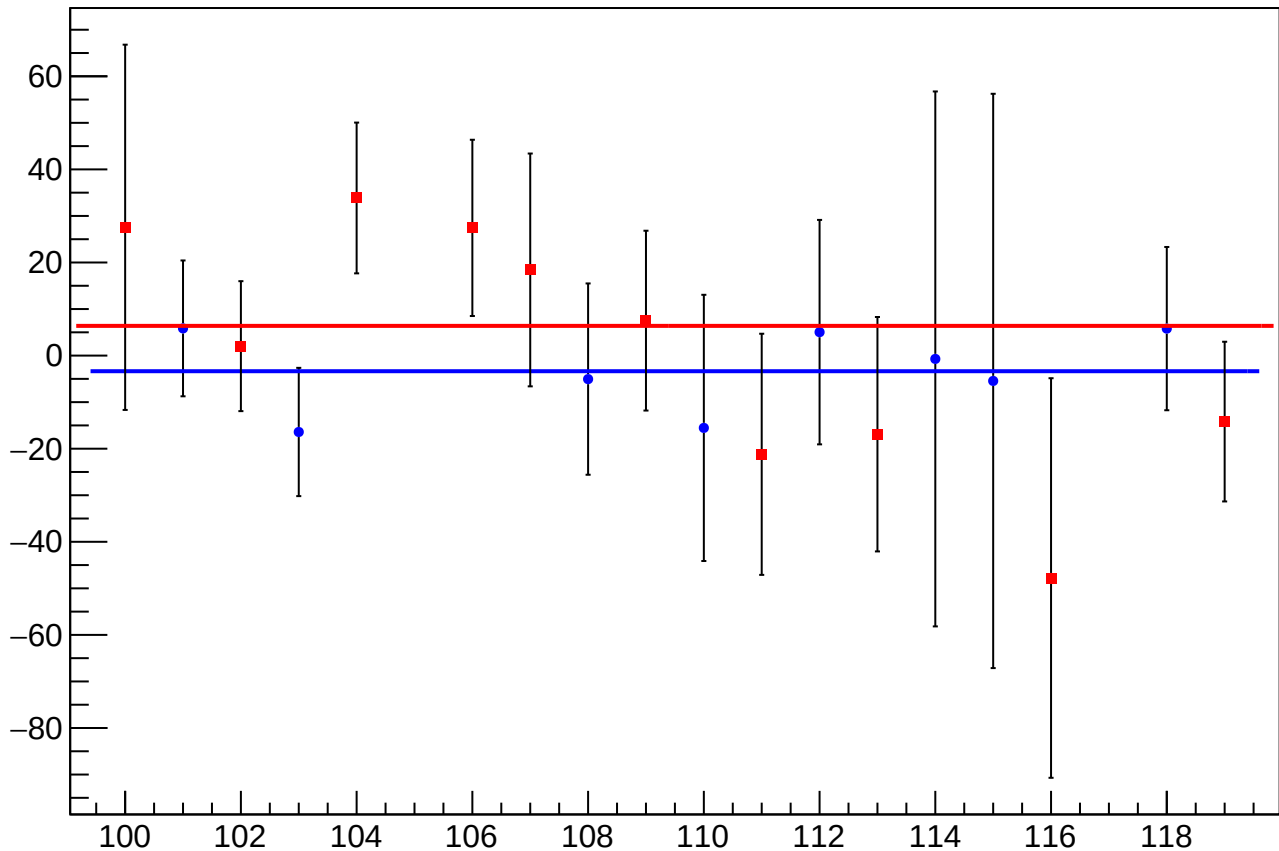
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12167.341+/-3.188  $\chi^2/\text{NDF}$ : 283632.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aesumY\_mean vs Slug



Right In: -3.356+/-7.236  $\chi^2/\text{NDF}$ : 1.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6.385+/-6.499  $\chi^2/\text{NDF}$ : 9.8/9

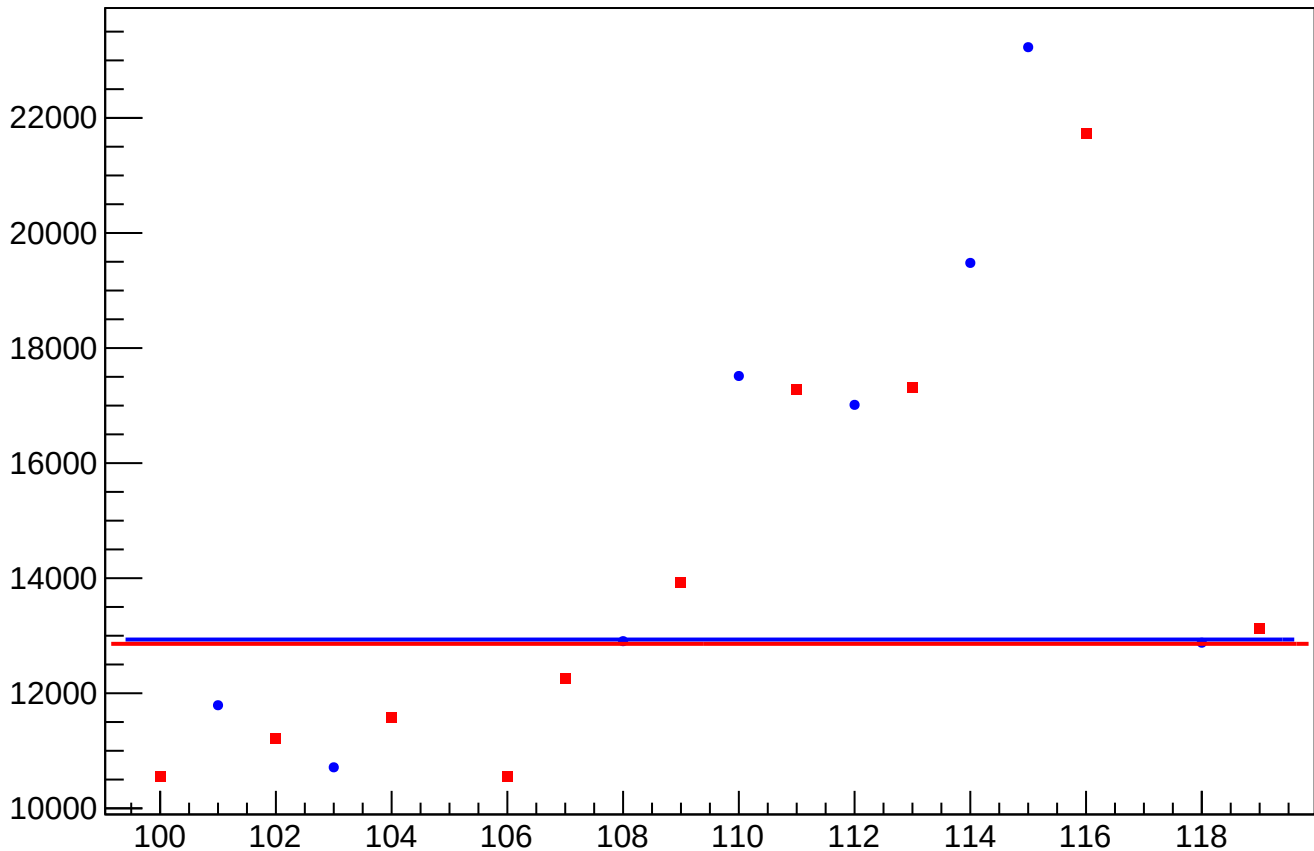
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.036+/-4.835  $\chi^2/\text{NDF}$ : 12.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aesumY\_rms vs Slug



Right In: 12933.708+/-5.117  $\chi^2/\text{NDF}$ : 254534.3/7

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

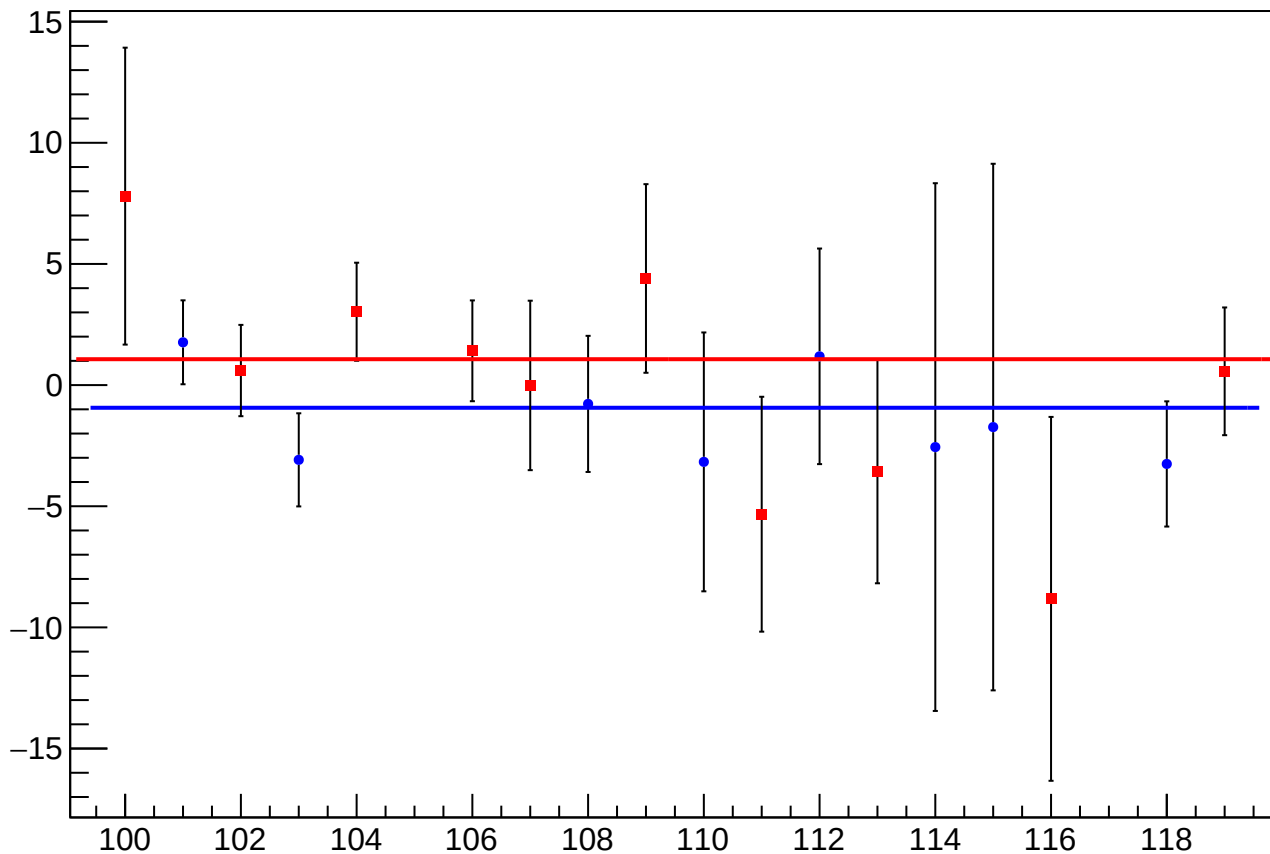
Right Out: 12859.024+/-4.596  $\chi^2/\text{NDF}$ : 291117.0/9

All: 12892.369+/-3.419  $\chi^2/\text{NDF}$ : 545769.2/17

- 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\_bpm4aeddifY\_mean vs Slug



Right In: -0.936+/-1.009  $\chi^2/\text{NDF}$ : 4.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.068+/-0.919  $\chi^2/\text{NDF}$ : 7.6/9

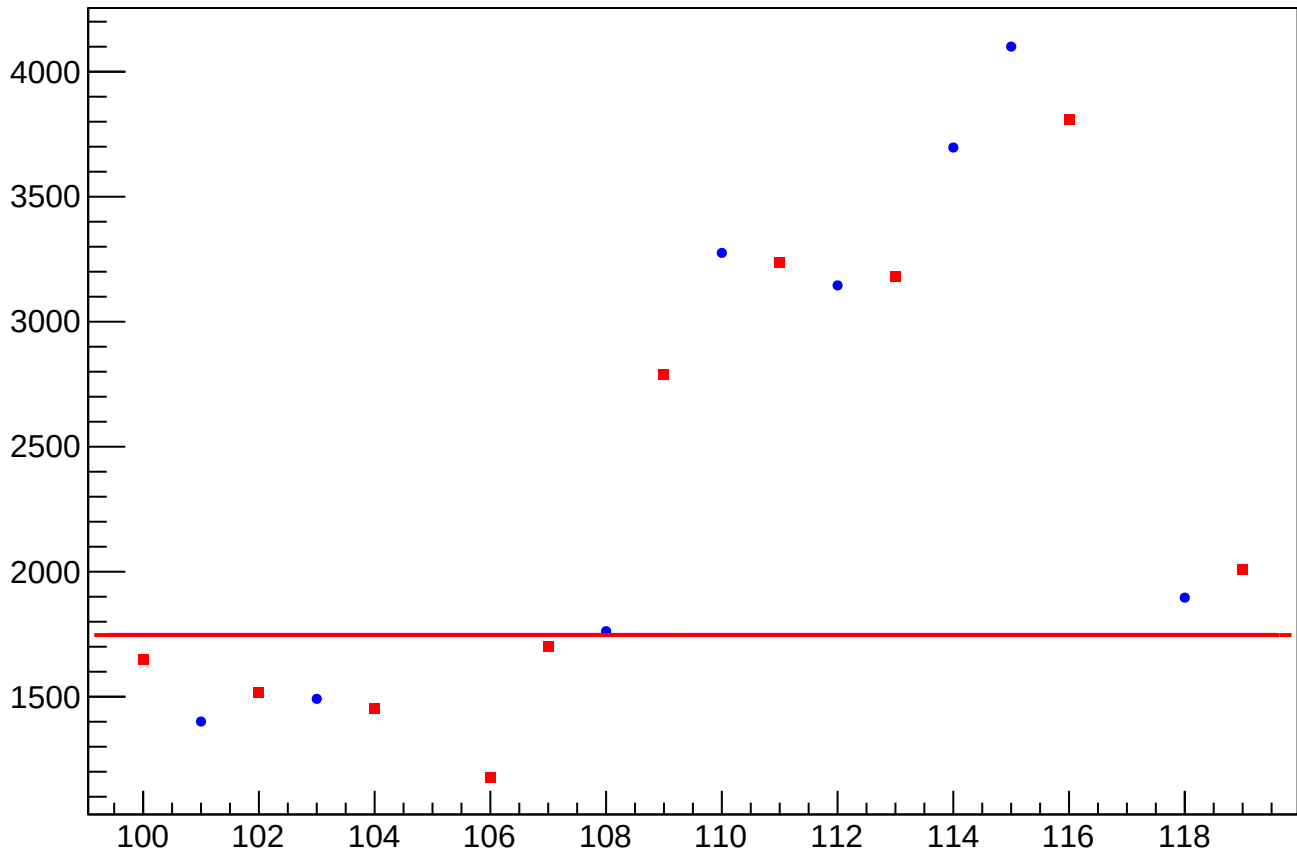
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.159+/-0.679  $\chi^2/\text{NDF}$ : 14.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aediY\_rms vs Slug



Right In: 1747.317+/-0.713  $\chi^2/\text{NDF}$ : 641171.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1746.621+/-0.650  $\chi^2/\text{NDF}$ : 919449.6/9

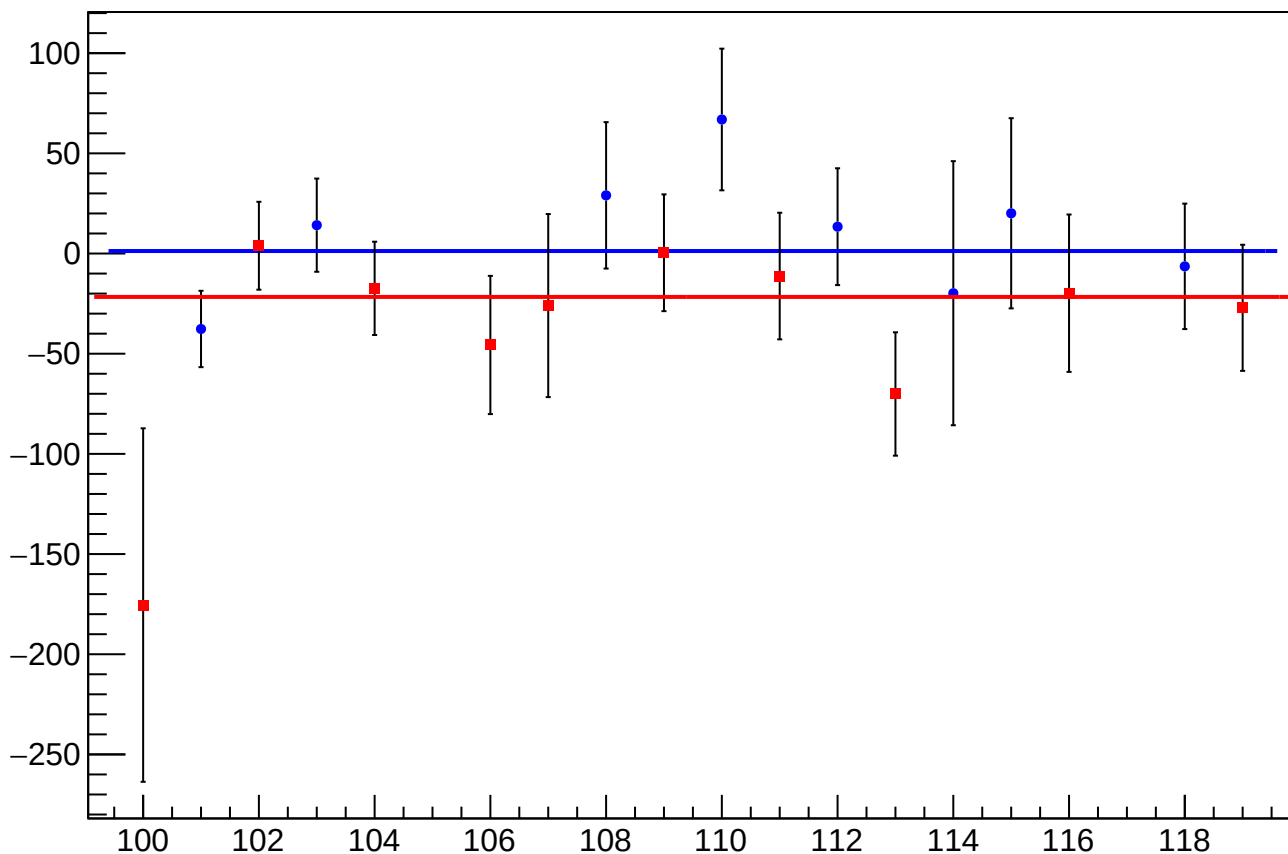
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1746.937+/-0.480  $\chi^2/\text{NDF}$ : 1560621.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmtargetsumX\_mean vs Slug



Right In: 1.251+/-10.527  $\chi^2/\text{NDF}$ : 9.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -21.661+/-9.871  $\chi^2/\text{NDF}$ : 8.1/9

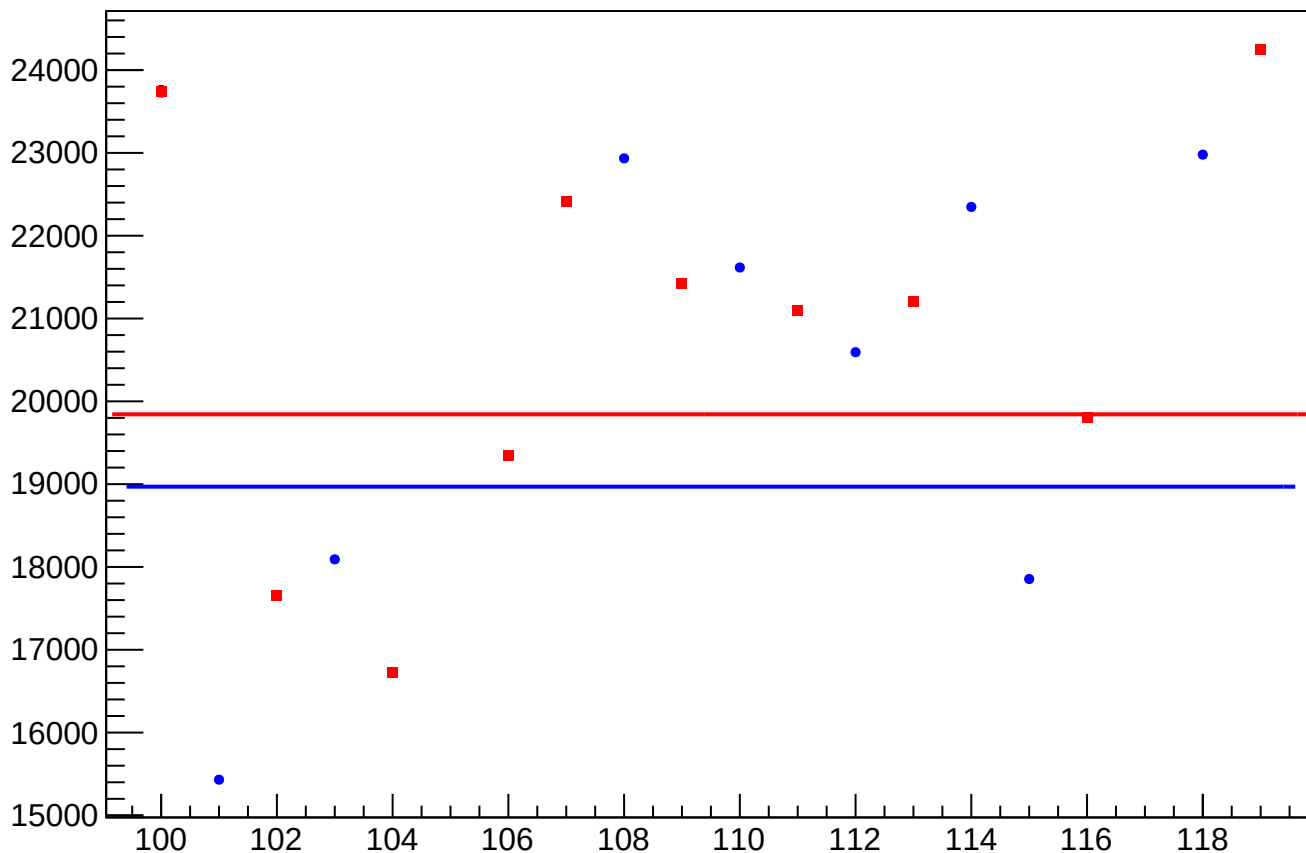
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -10.941+/-7.201  $\chi^2/\text{NDF}$ : 19.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmtargetsumX\_rms vs Slug



Right In: 18969.618+/-7.444  $\chi^2/\text{NDF}$ : 151941.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19843.206+/-6.980  $\chi^2/\text{NDF}$ : 118498.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

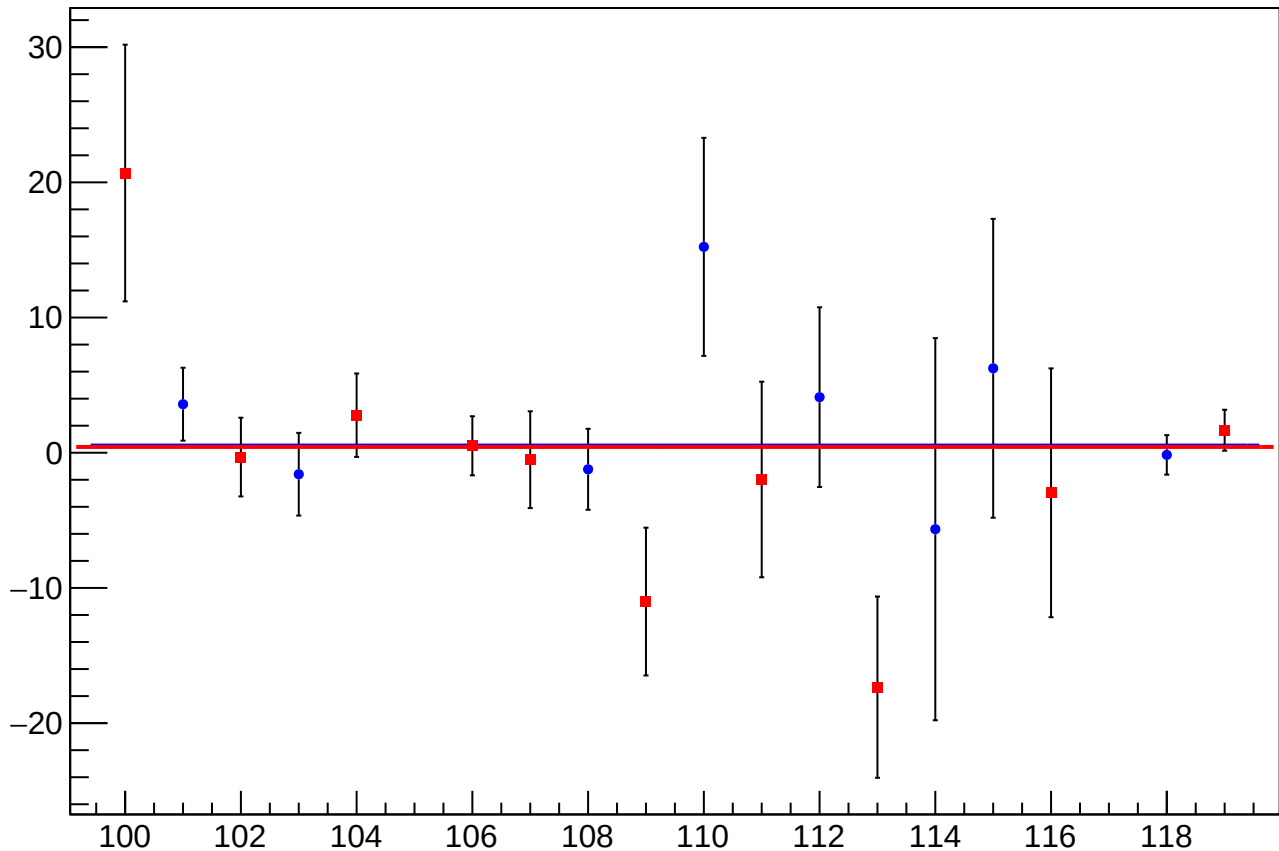
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19434.488+/-5.092  $\chi^2/\text{NDF}$ : 277768.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpmtargetdiffX\_mean vs Slug



Right In: 0.530 $\pm$ 1.069  $\chi^2$ /NDF: 6.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.430 $\pm$ 0.979  $\chi^2$ /NDF: 17.6/9

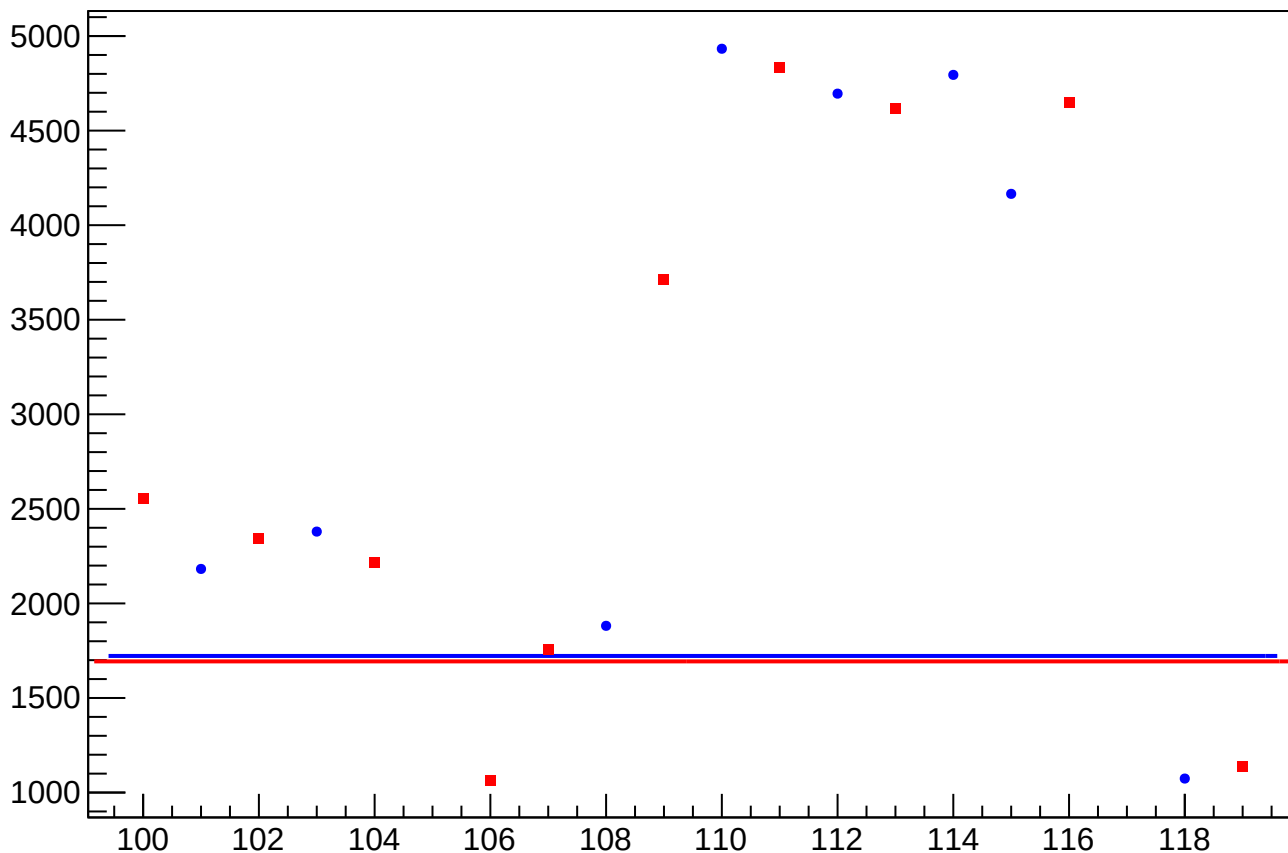
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.475 $\pm$ 0.722  $\chi^2$ /NDF: 24.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpmtargetdiffX\_rms vs Slug



Right In: 1722.270+/-0.756  $\chi^2/\text{NDF}$ : 1459319.1/7

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

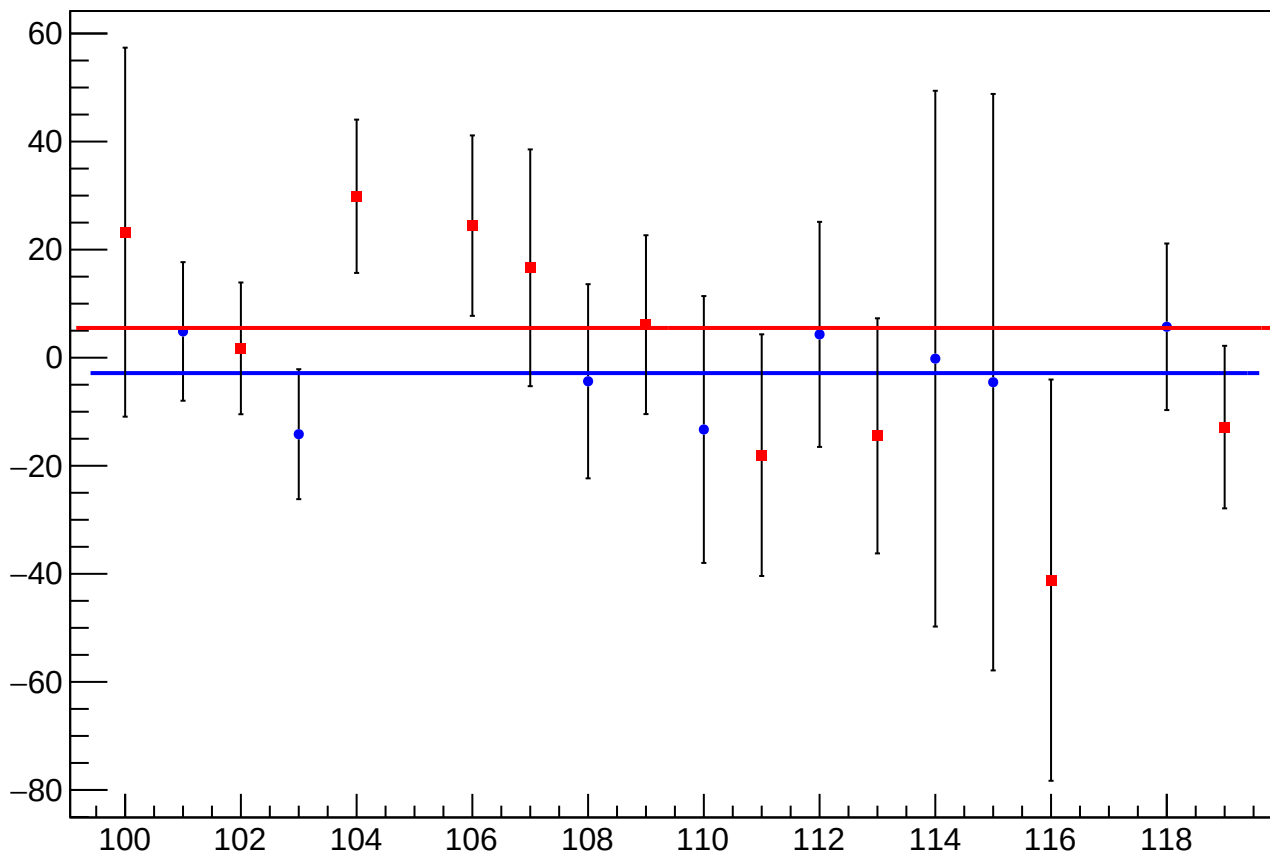
Right Out: 1693.480+/-0.692  $\chi^2/\text{NDF}$ : 1849008.0/9

All: 1706.611+/-0.510  $\chi^2/\text{NDF}$ : 3309116.1/17

- 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: -2.850+/-6.323  $\chi^2/\text{NDF}$ : 1.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.506+/-5.667  $\chi^2/\text{NDF}$ : 9.9/9

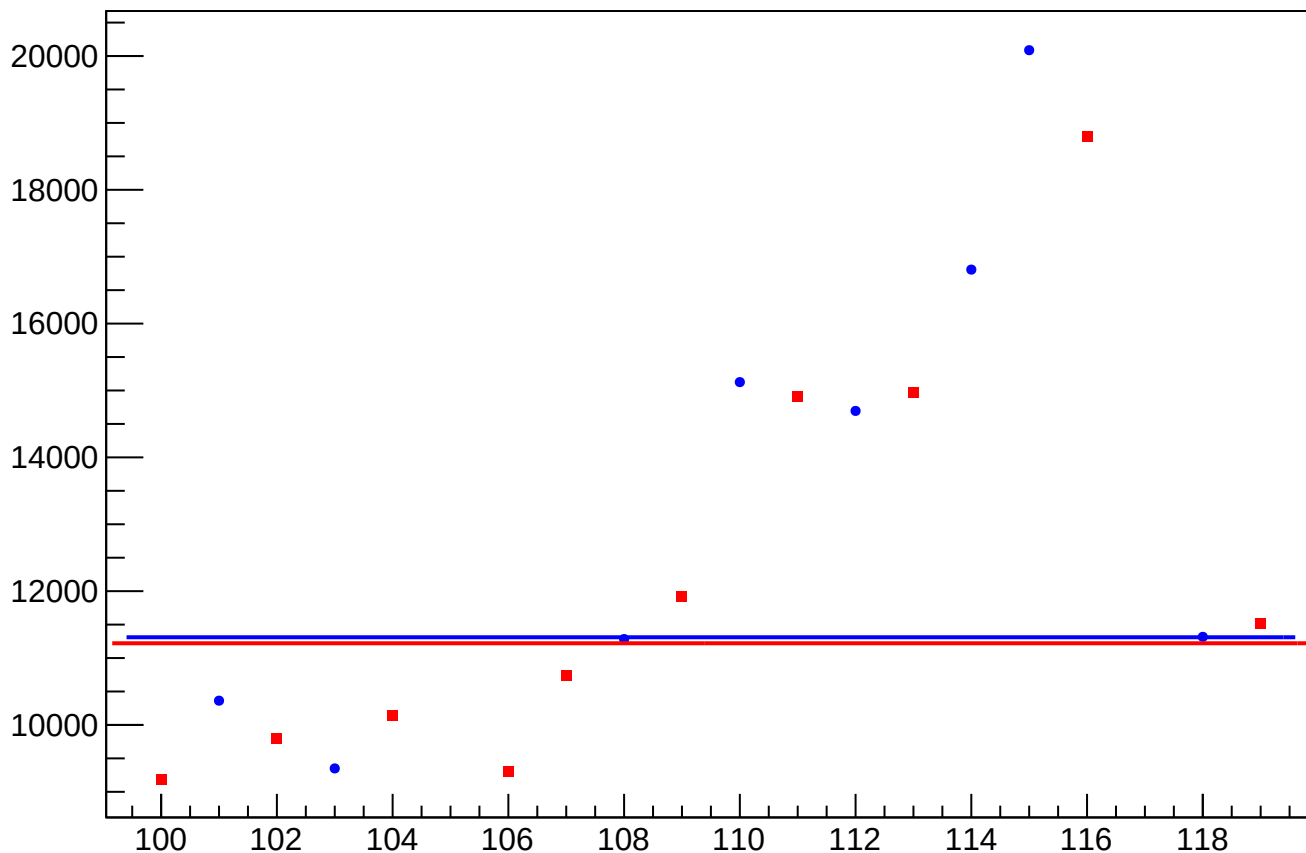
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.784+/-4.220  $\chi^2/\text{NDF}$ : 12.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmtargetsumY\_rms vs Slug



Right In: 11310.611+/-4.471  $\chi^2/\text{NDF}$ : 243361.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11221.043+/-4.007  $\chi^2/\text{NDF}$ : 275006.8/9

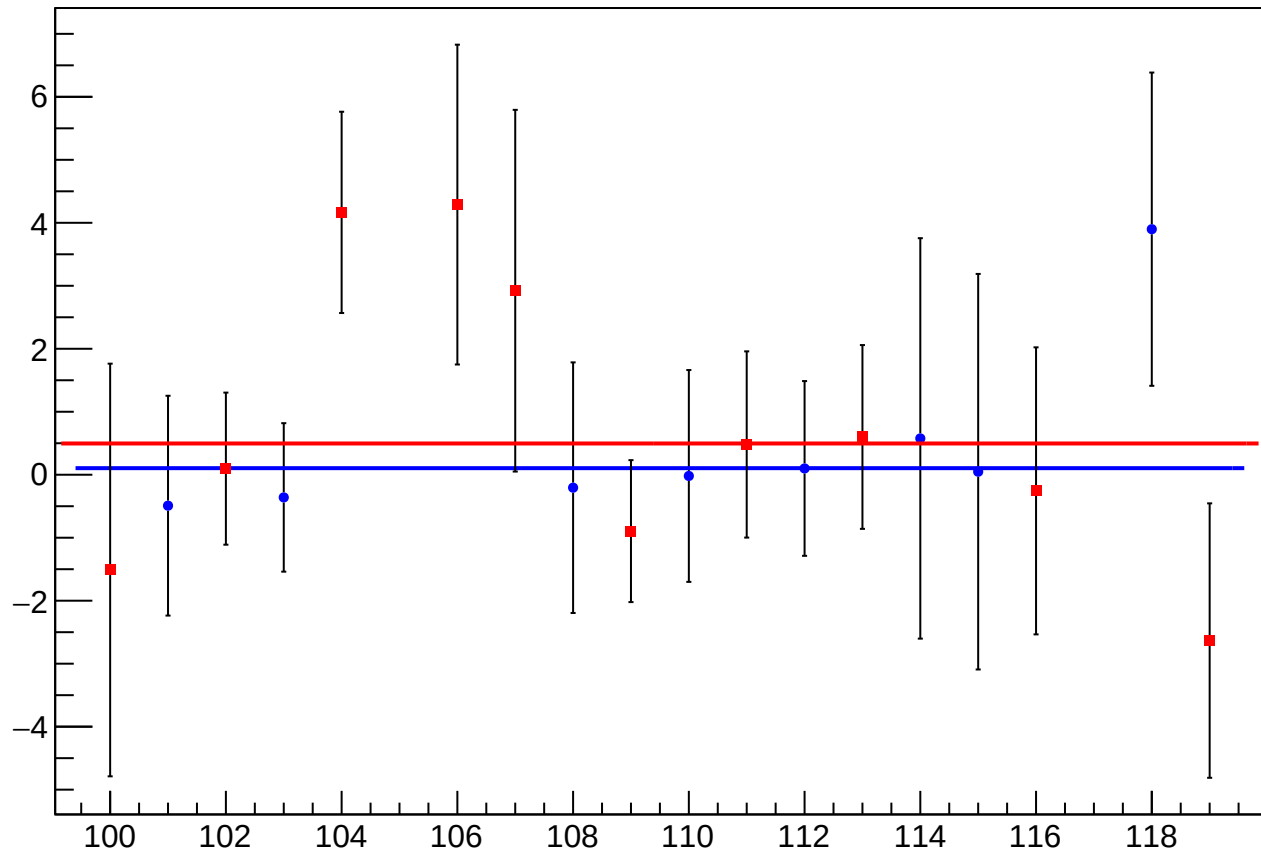
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11260.942+/-2.984  $\chi^2/\text{NDF}$ : 518591.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmtargetdiffY\_mean vs Slug



Right In: 0.104 $\pm$ 0.628  $\chi^2$ /NDF: 2.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.496 $\pm$ 0.530  $\chi^2$ /NDF: 12.4/9

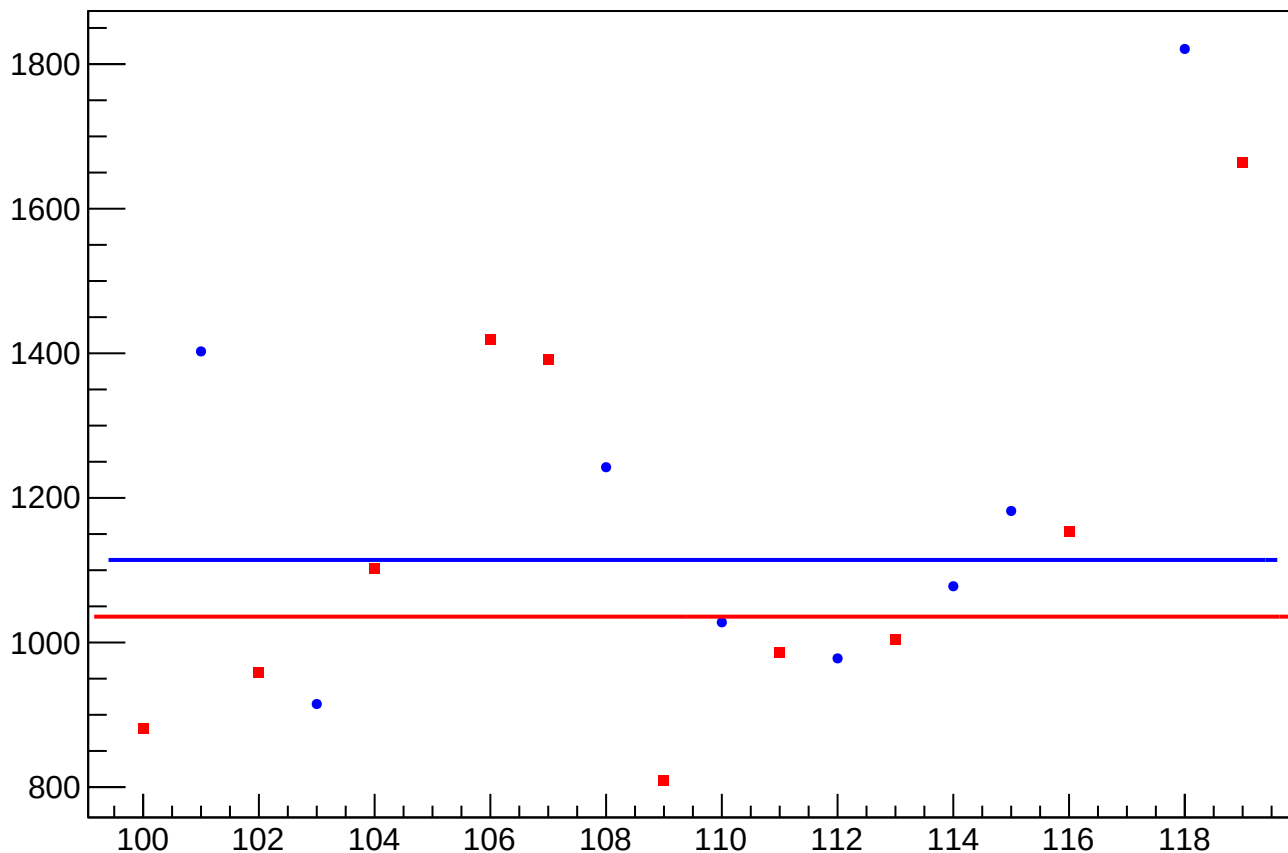
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.333 $\pm$ 0.405  $\chi^2$ /NDF: 15.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpmtargetdiffY\_rms vs Slug



Right In: 1114.195+/-0.444  $\chi^2/\text{NDF}$ : 307395.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1035.753+/-0.374  $\chi^2/\text{NDF}$ : 347479.9/9

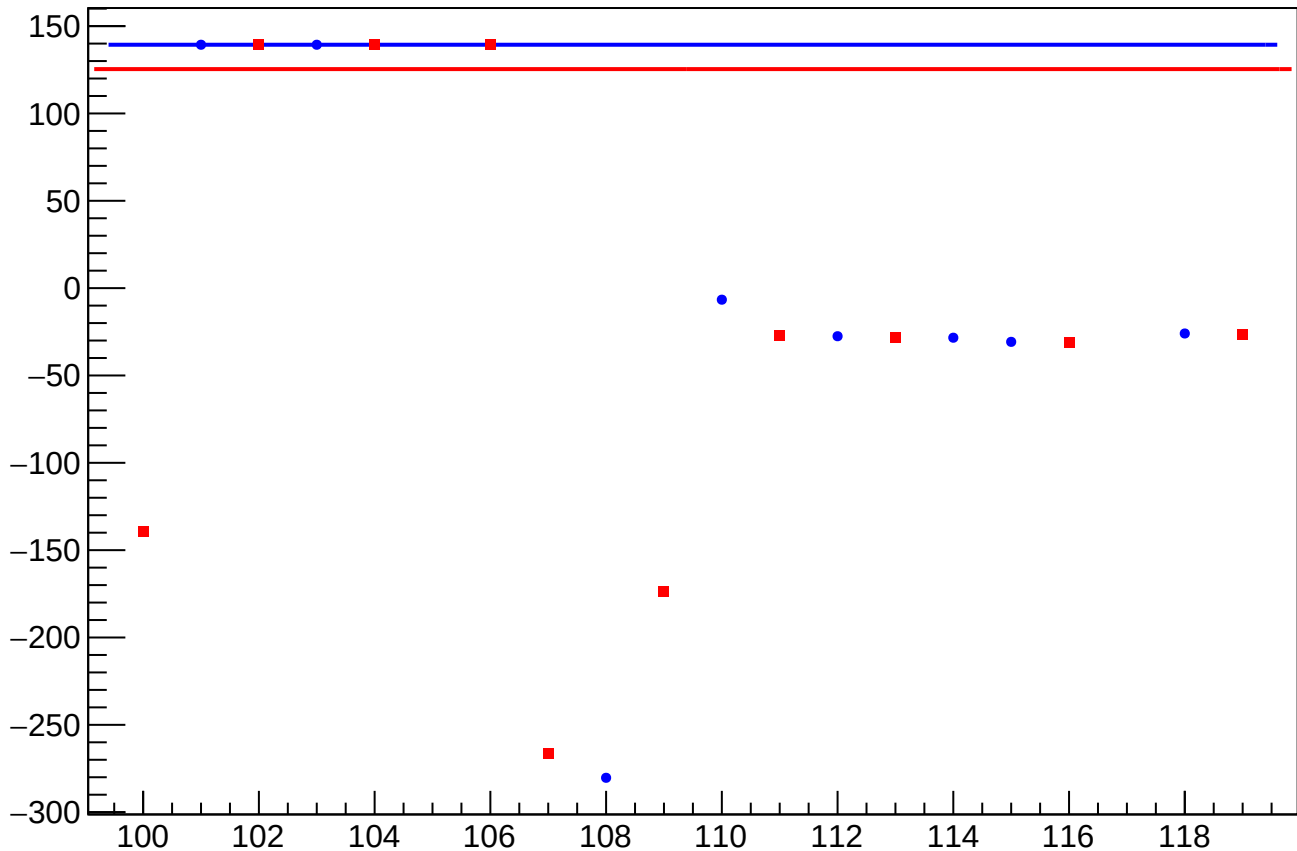
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1068.358+/-0.286  $\chi^2/\text{NDF}$ : 673112.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4bX\_mean vs Slug



Right In: 139.338 $\pm$ 0.000  $\chi^2$ /NDF: 19643951120.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.392 $\pm$ 0.000  $\chi^2$ /NDF: 774154302700549.4/9

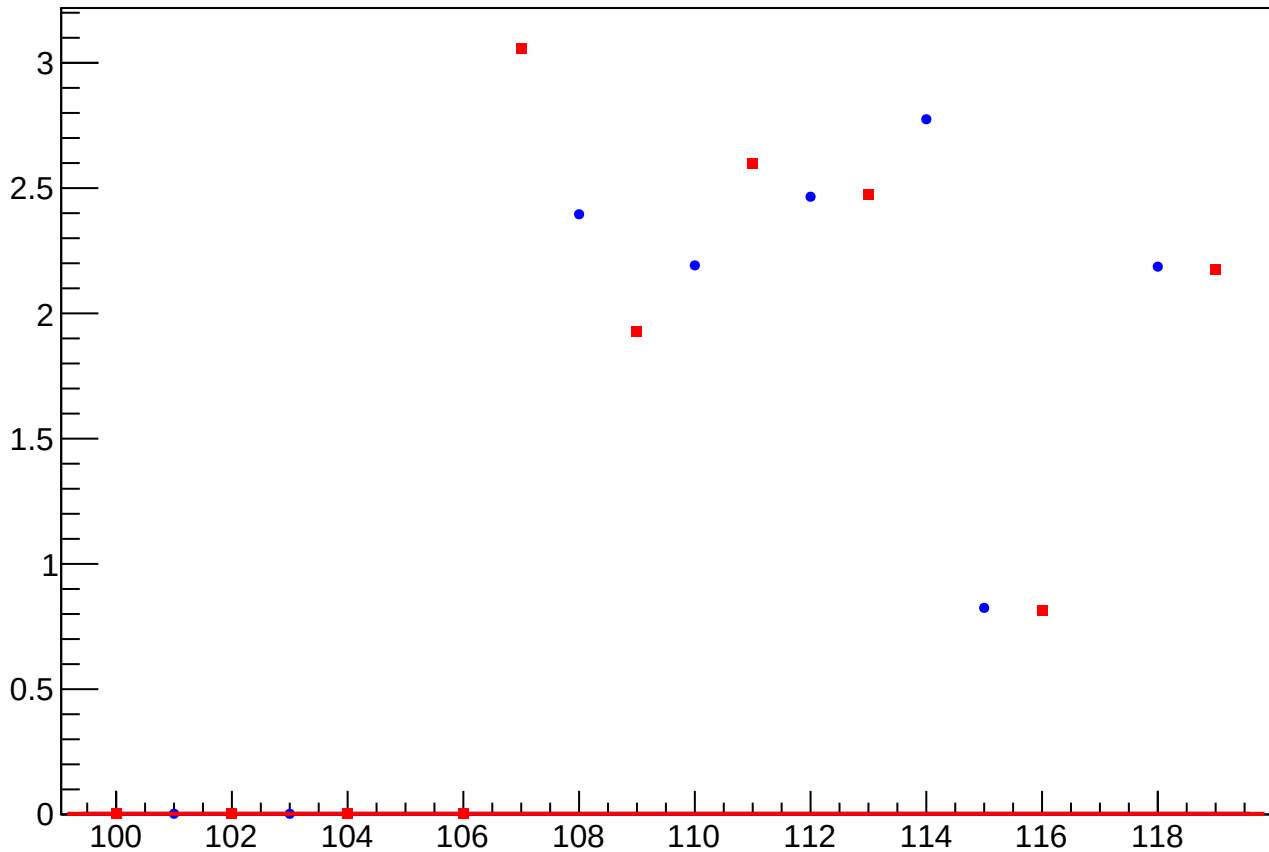
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 131.819 $\pm$ 0.000  $\chi^2$ /NDF: 792959530347

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4bX\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 3377499.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 4111873.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

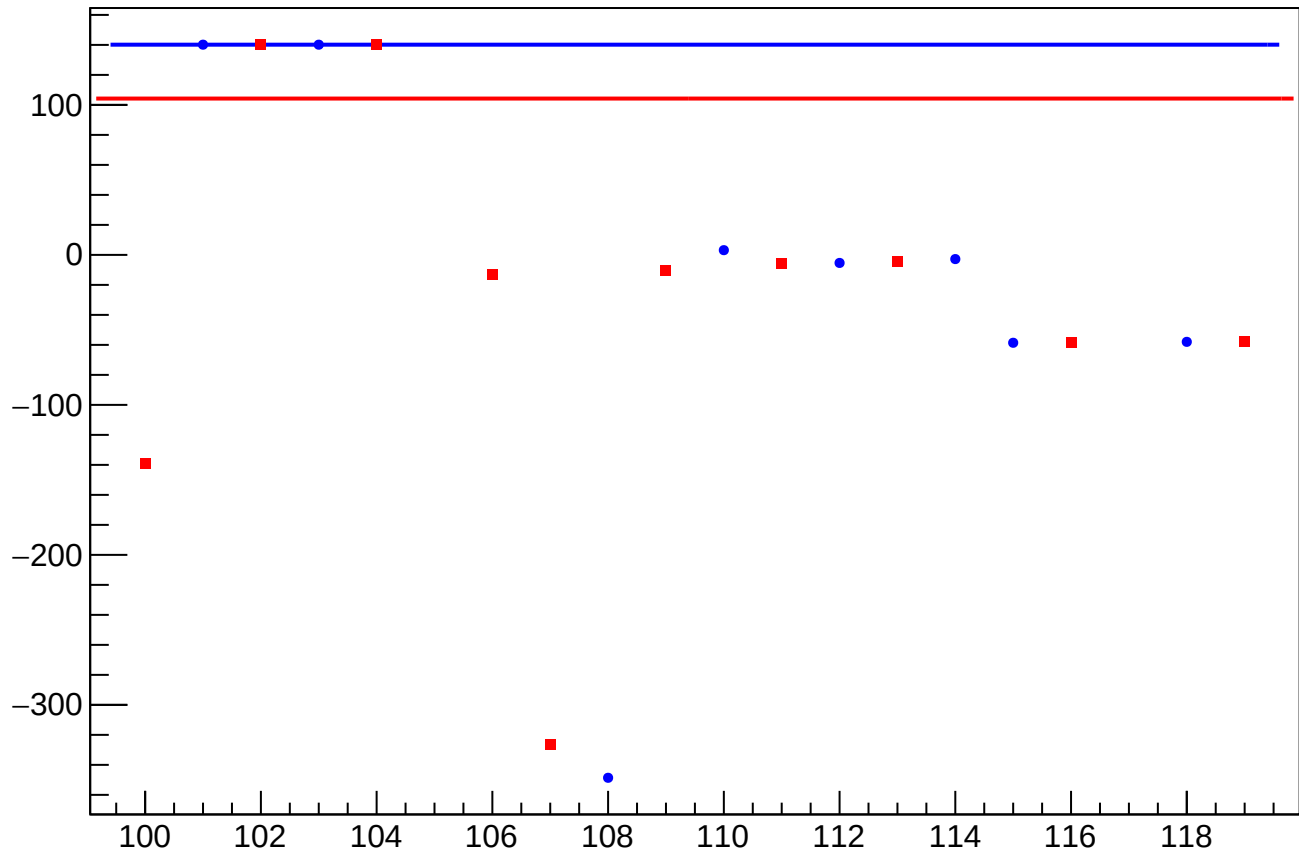
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 7489525.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_cav4bY\_mean vs Slug



Right In: 140.148 $\pm$ 0.000  $\chi^2$ /NDF: 21181755512.4/7

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

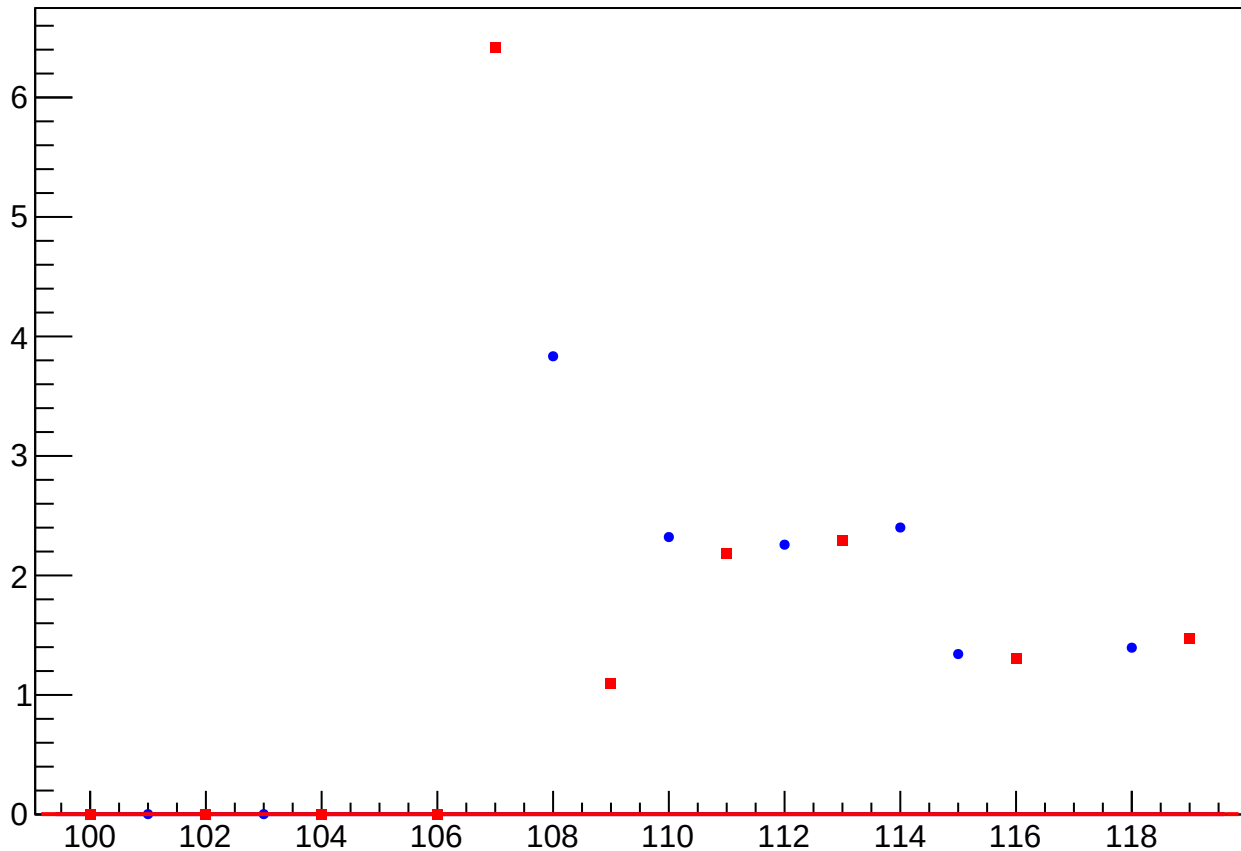
Right Out: 104.227 $\pm$ 0.000  $\chi^2$ /NDF: 1257310486148506.8/9

All: 120.835 $\pm$ 0.000  $\chi^2$ /NDF: 138064909304

- 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  $\chi^2/\text{NDF}$ : 3646698.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 4236572.6/9

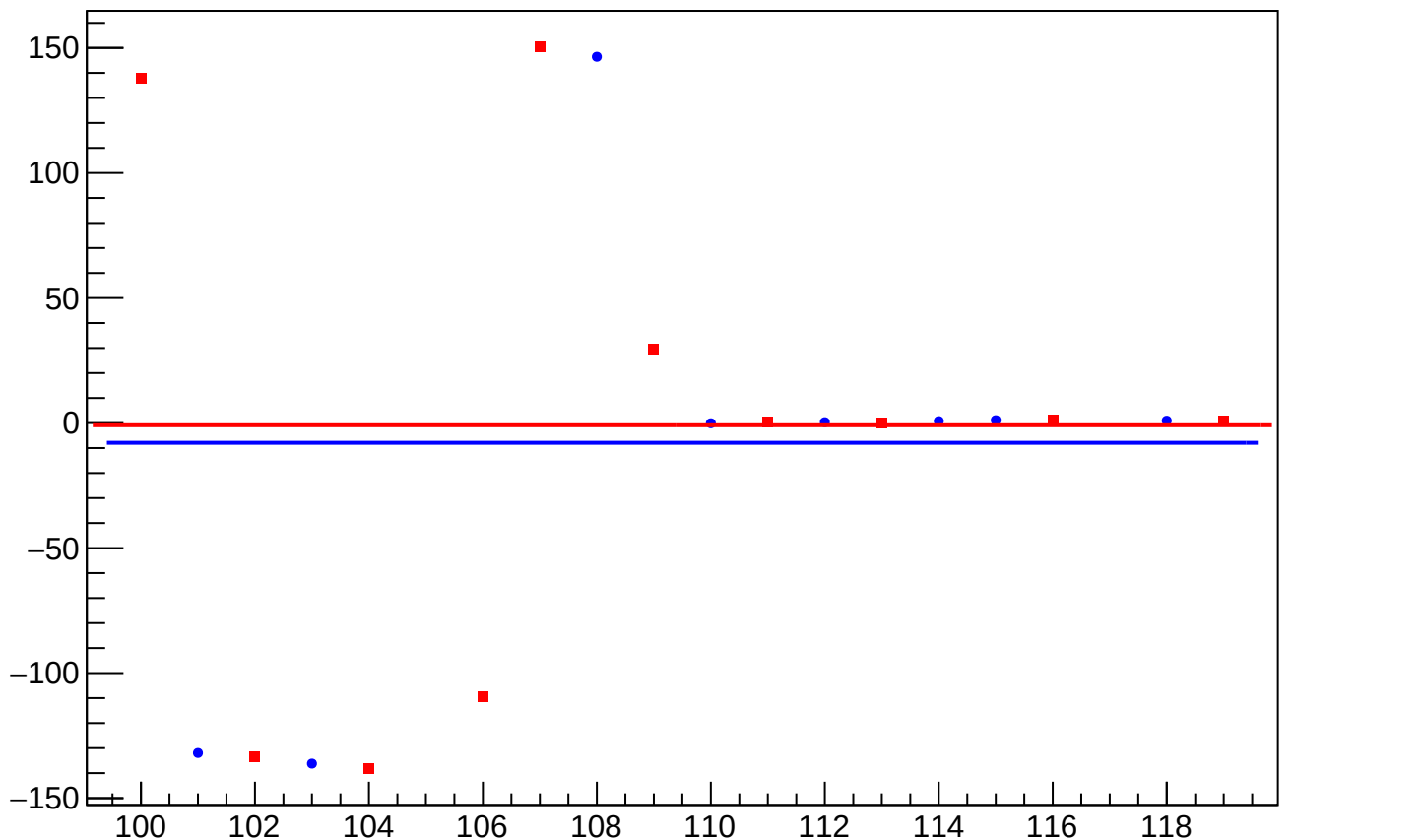
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 7883414.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cX\_mean vs Slug



Right In: -7.885+/-0.000  $\chi^2/\text{NDF}$ : 9630607449.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.875+/-0.000  $\chi^2/\text{NDF}$ : 3599249747.3/9

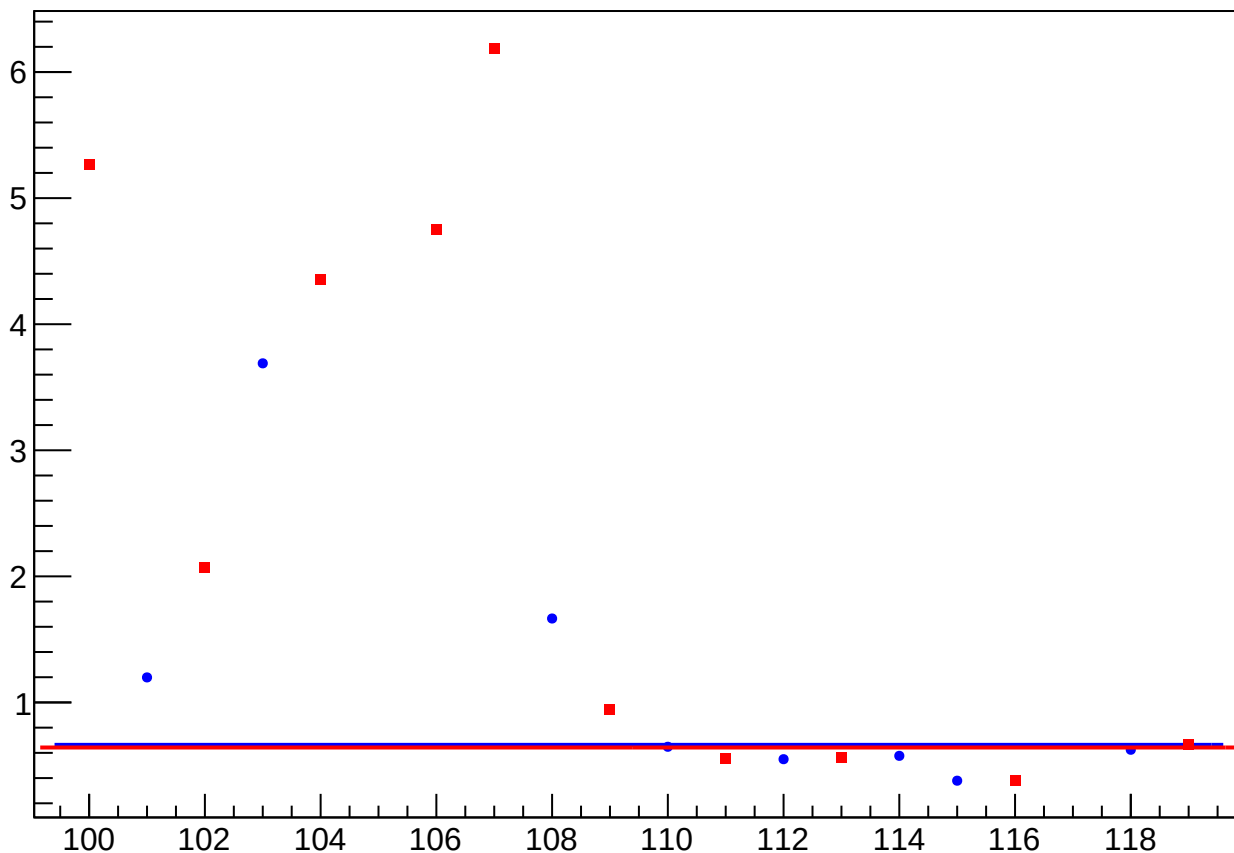
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.137+/-0.000  $\chi^2/\text{NDF}$ : 13357363843.0/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cX\_rms vs Slug



Right In: 0.664+/-0.000  $\chi^2/\text{NDF}$ : 1263967.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.643+/-0.000  $\chi^2/\text{NDF}$ : 2285729.2/9

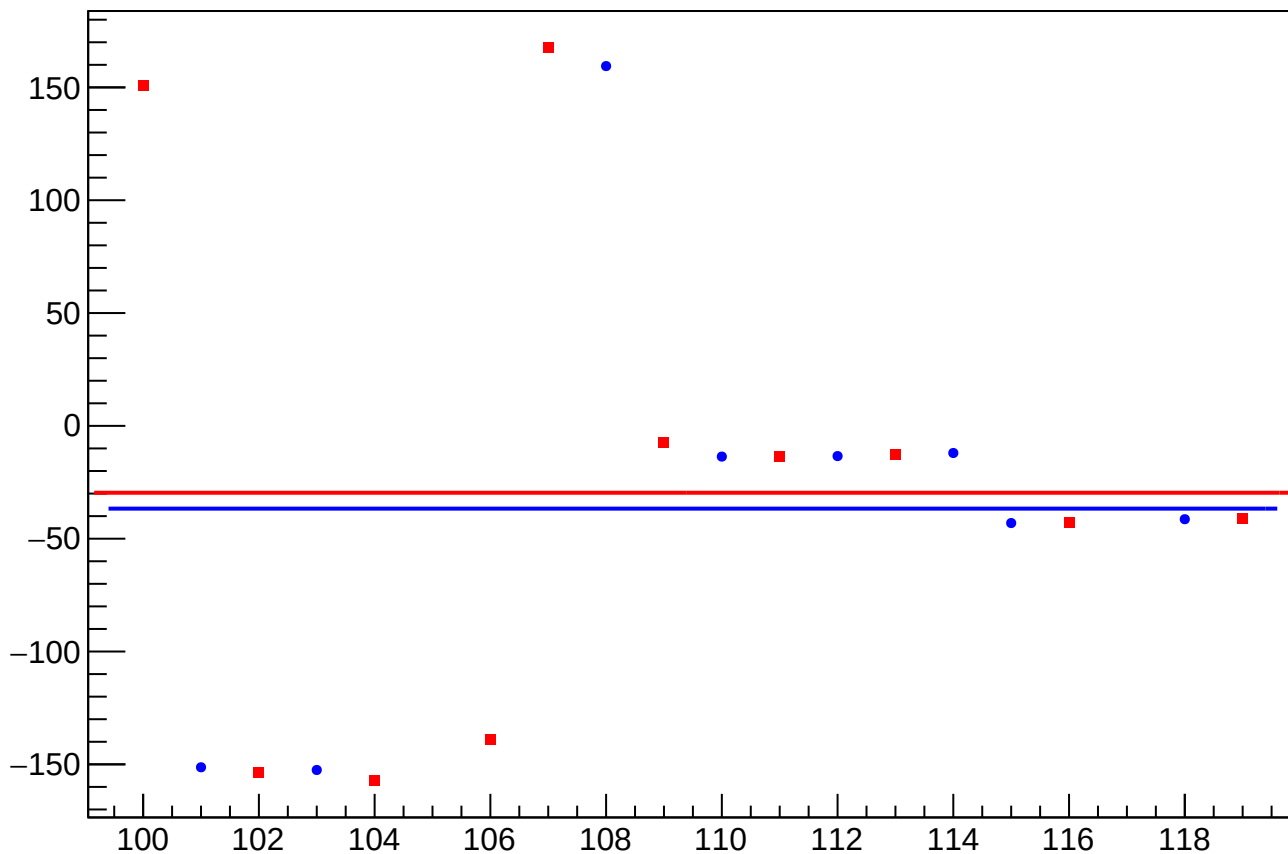
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.652+/-0.000  $\chi^2/\text{NDF}$ : 3551982.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cY\_mean vs Slug



Right In:  $-36.673 \pm 0.001$   $\chi^2/\text{NDF}: 3388064733.9/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

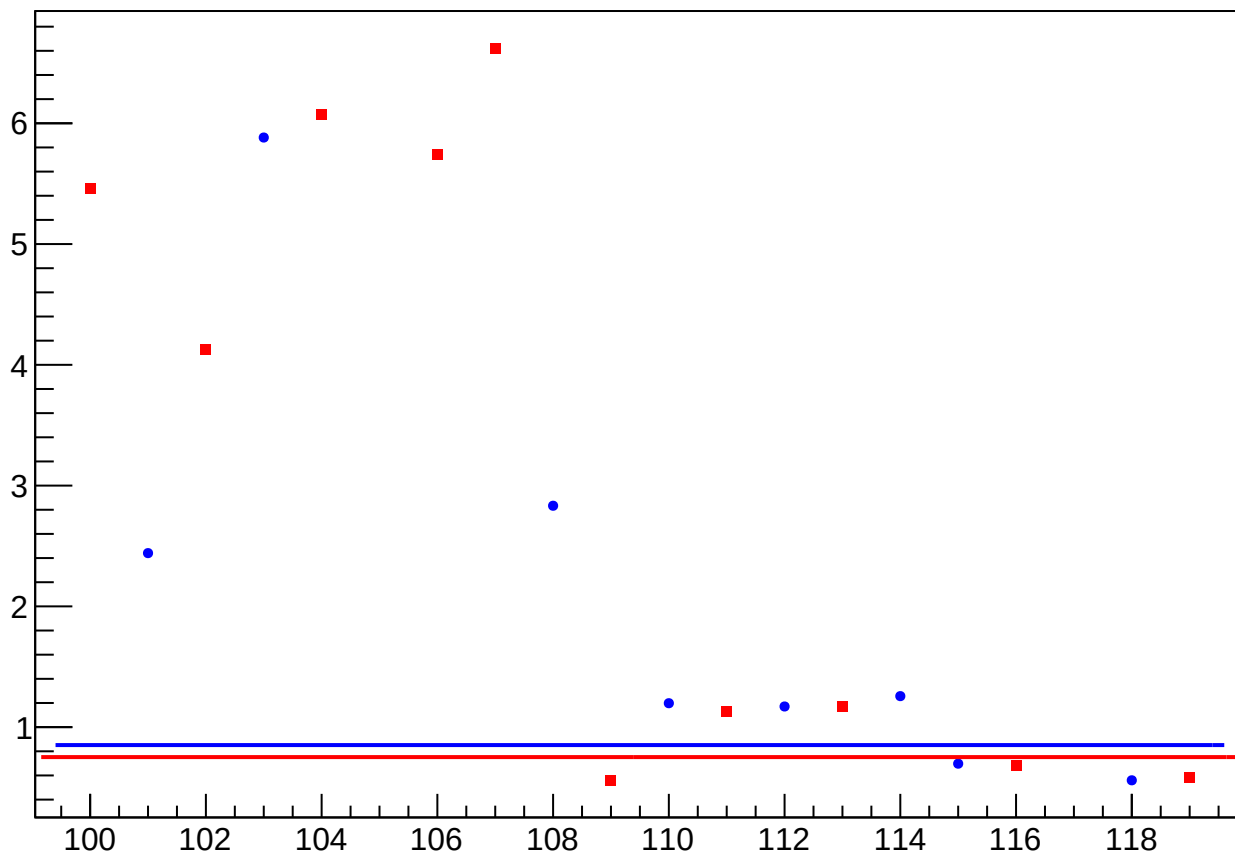
Right Out:  $-29.630 \pm 0.001$   $\chi^2/\text{NDF}: 2035166590.7/9$

All:  $-32.548 \pm 0.000$   $\chi^2/\text{NDF}: 5502949147.3/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# yield\_cav4cY\_rms vs Slug



Right In: 0.852+/-0.000  $\chi^2/\text{NDF}$ : 2097959.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.752+/-0.000  $\chi^2/\text{NDF}$ : 2628274.4/9

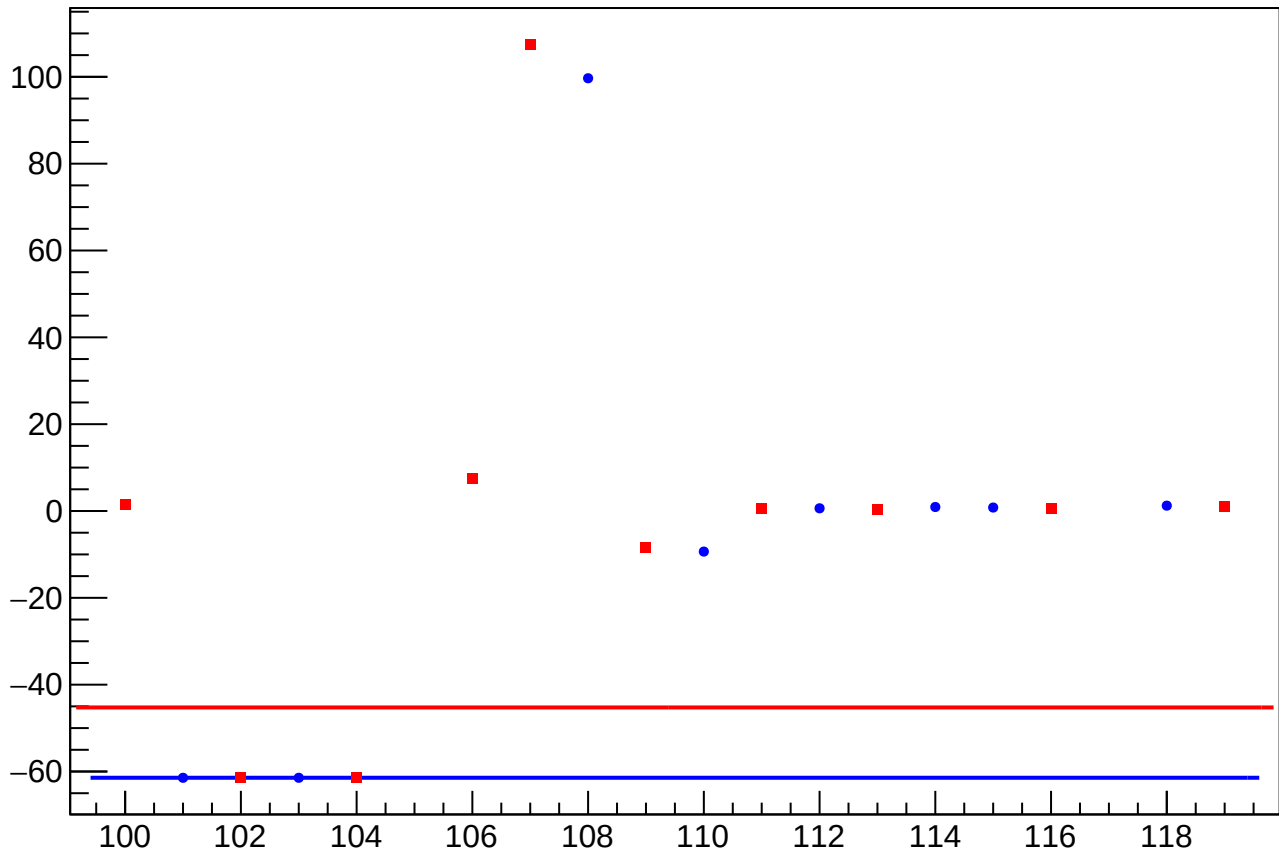
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.793+/-0.000  $\chi^2/\text{NDF}$ : 4758070.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dX\_mean vs Slug



Right In: -61.439+/-0.000  $\chi^2/\text{NDF}$ : 209381642666.4/7

+ 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

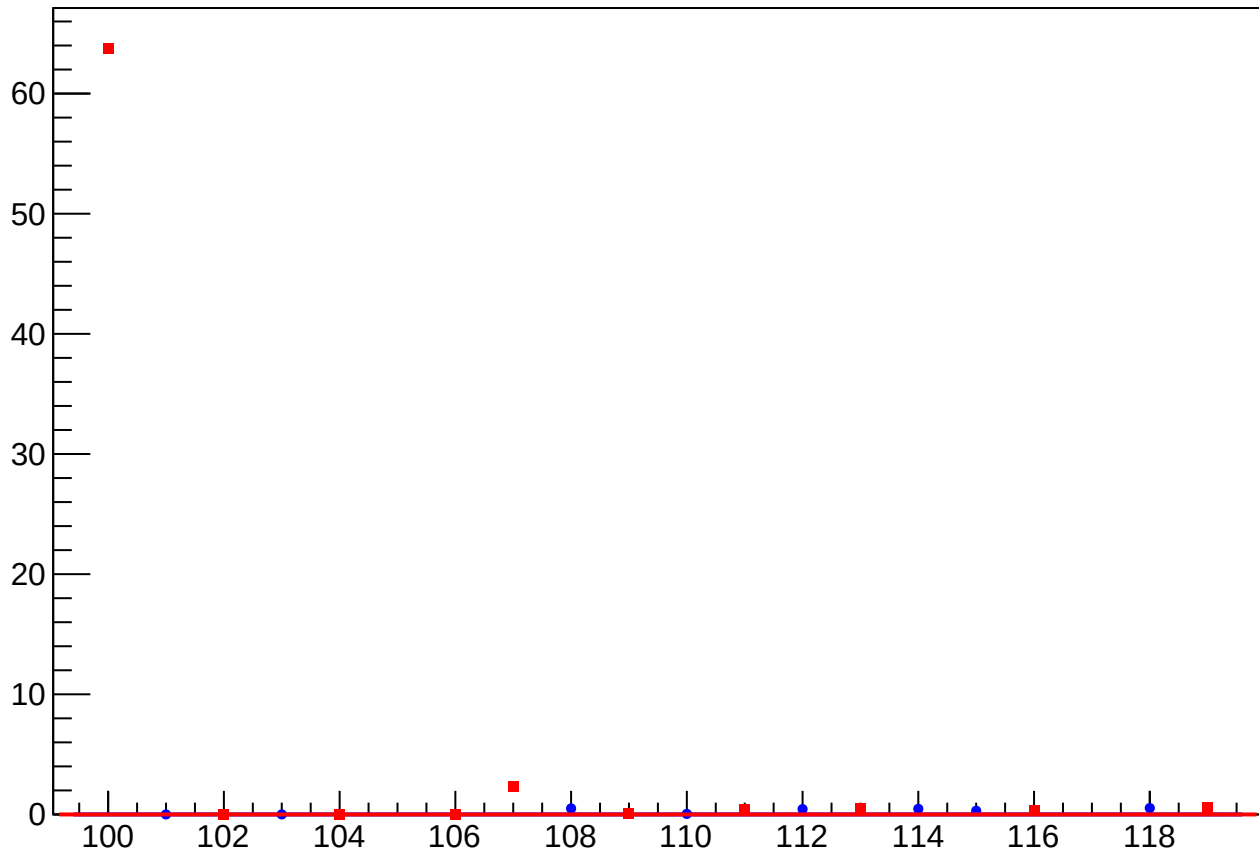
All: -52.751+/-0.000  $\chi^2/\text{NDF}$ : 409040943091

Right Out: -45.246+/-0.000  $\chi^2/\text{NDF}$ : 357845534437217.2/9

- 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\_cav4dX\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3028569.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3866944.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

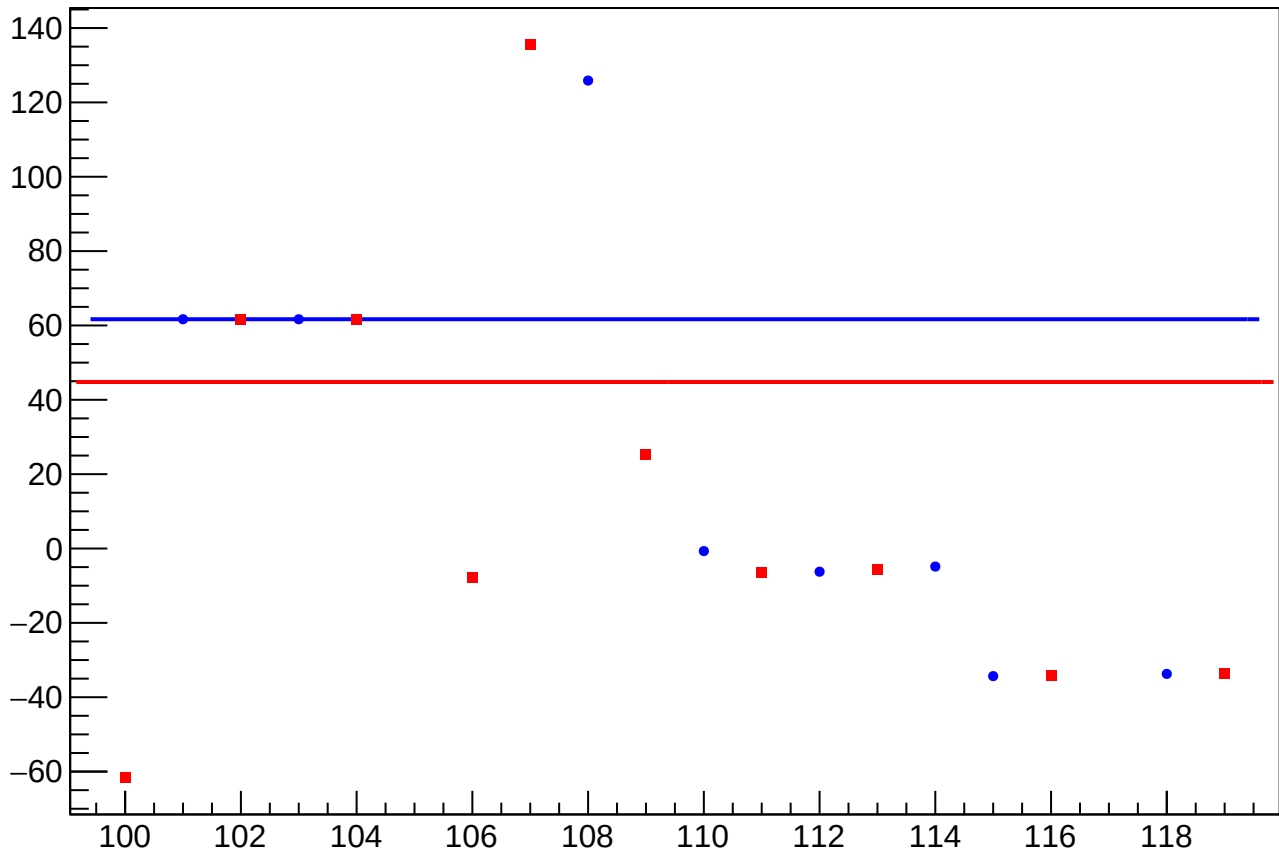
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 6895518.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_cav4dY\_mean vs Slug



Right In: 61.672+/-0.000  $\chi^2/\text{NDF}$ : 47028938848.2/7

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

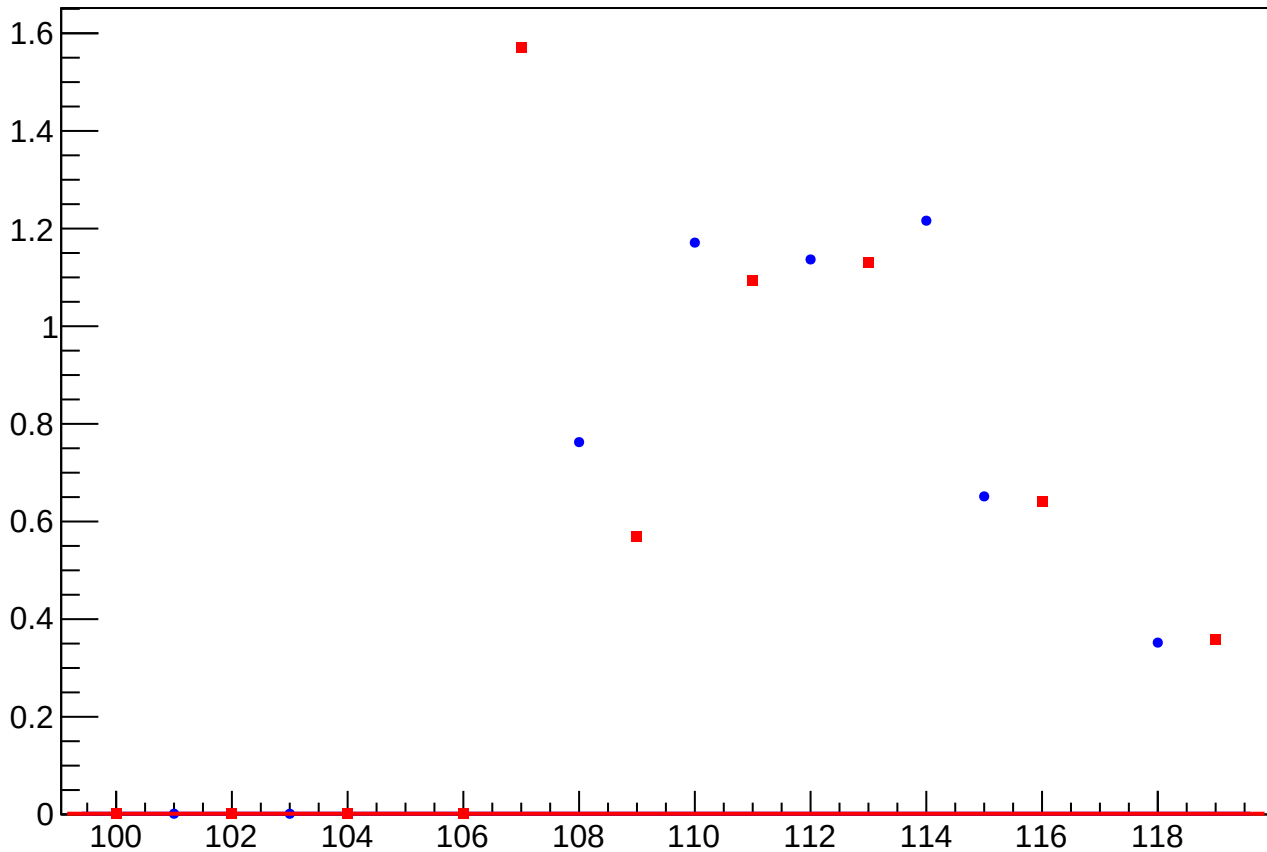
Right Out: 44.792+/-0.000  $\chi^2/\text{NDF}$ : 365902861274507.9/9

All: 52.697+/-0.000  $\chi^2/\text{NDF}$ : 4170710574260

- 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\_cav4dY\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3792877.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4272028.9/9

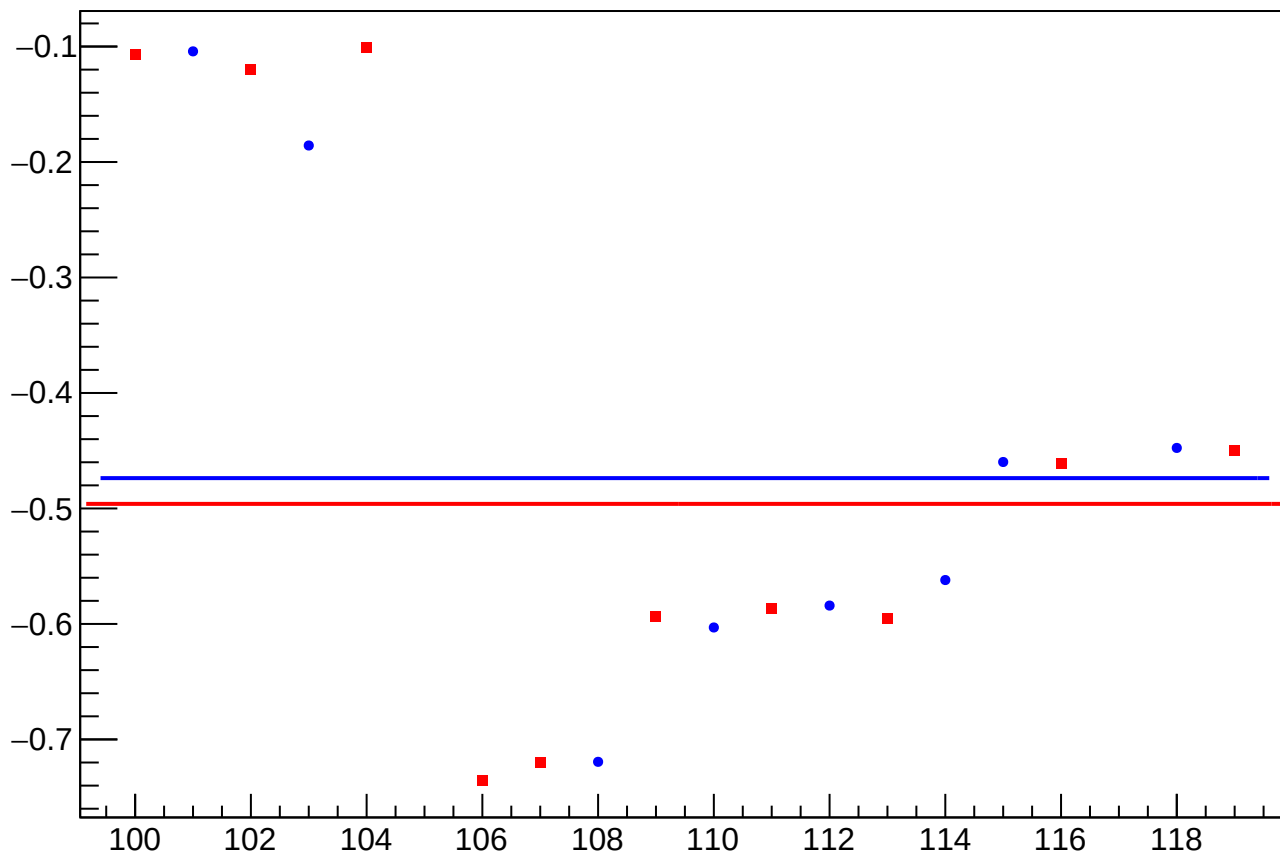
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 8065155.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aX\_mean vs Slug



Right In: -0.474+/-0.000  $\chi^2/\text{NDF}$ : 105804159.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.496+/-0.000  $\chi^2/\text{NDF}$ : 98986782.4/9

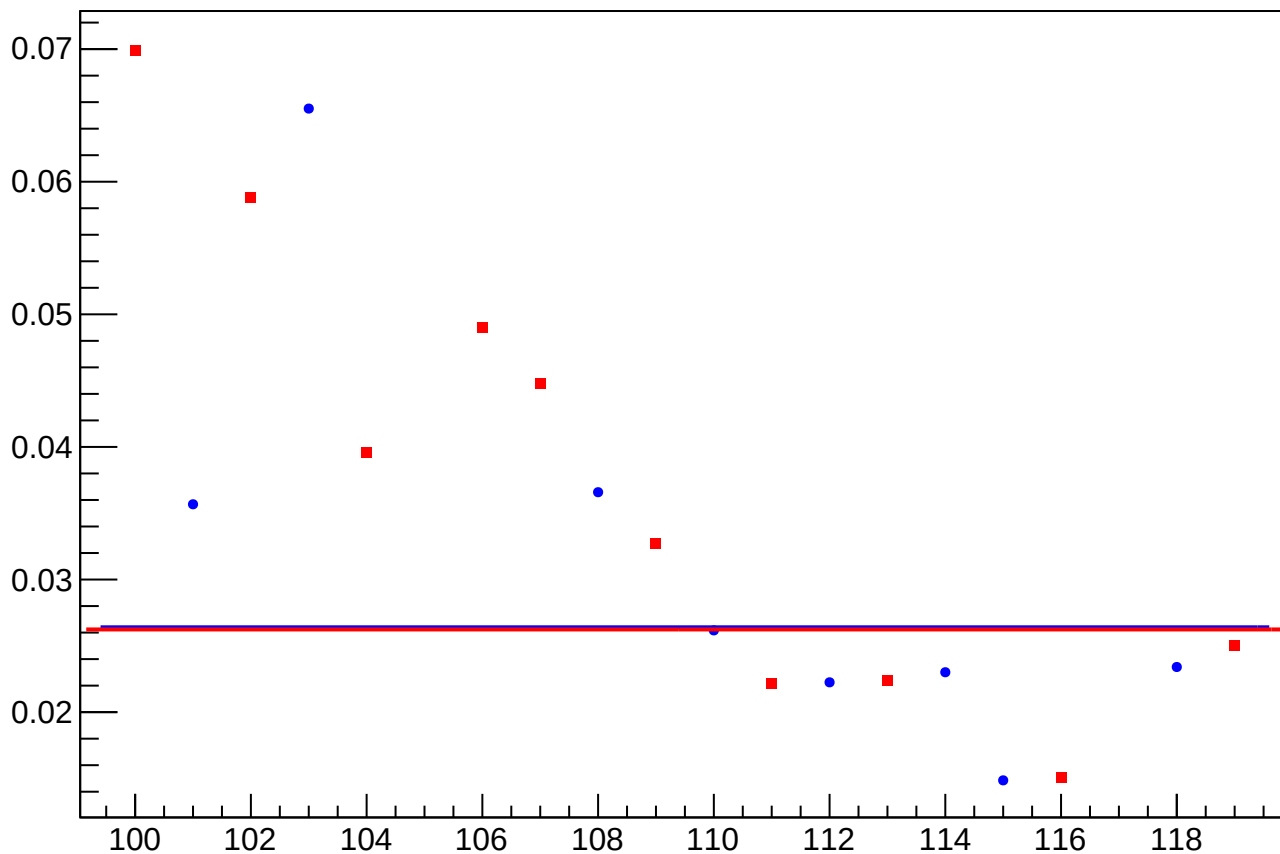
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.486+/-0.000  $\chi^2/\text{NDF}$ : 205766596.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aX\_rms vs Slug



Right In: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 699375.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 966297.3/9

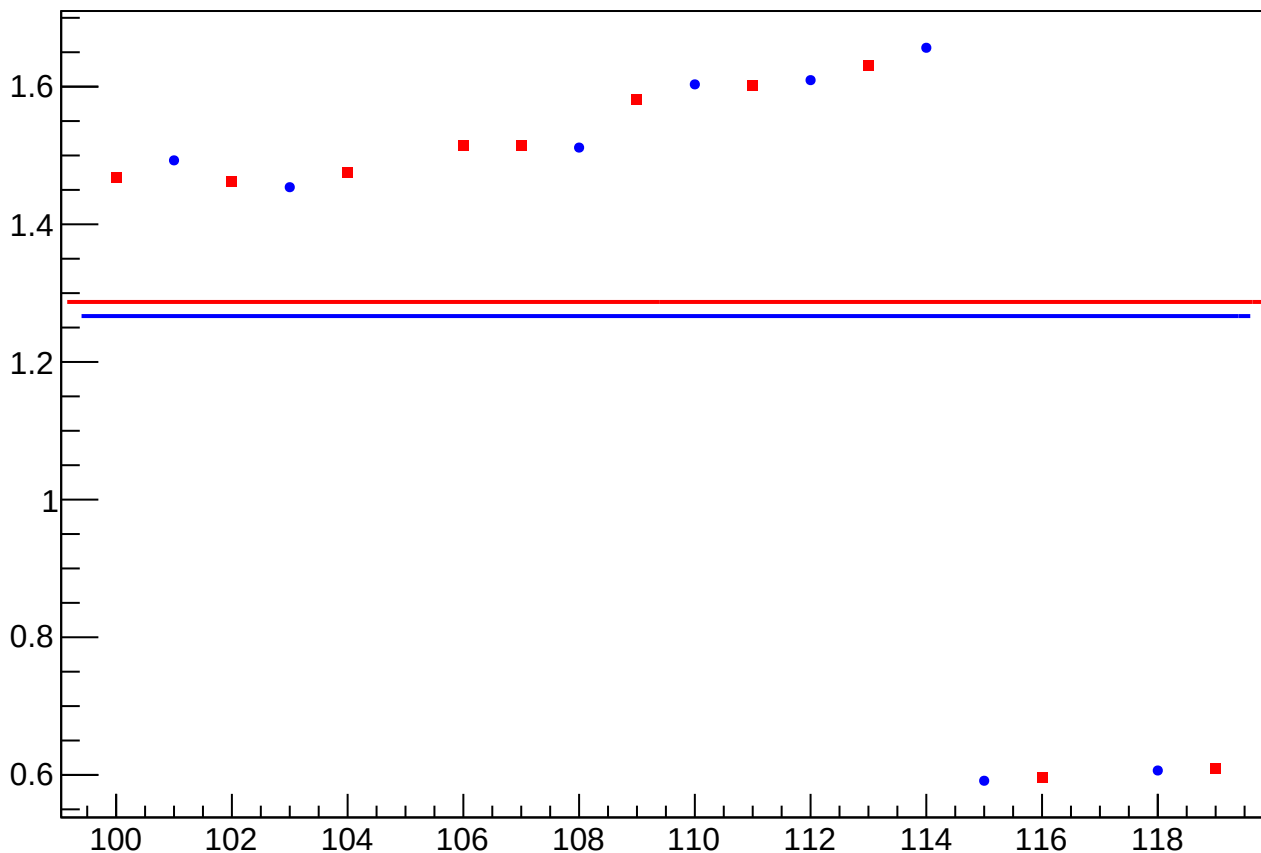
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 1665773.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aY\_mean vs Slug



Right In: 1.267+/-0.000  $\chi^2/\text{NDF}$ : 1290340136.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.287+/-0.000  $\chi^2/\text{NDF}$ : 1481598951.4/9

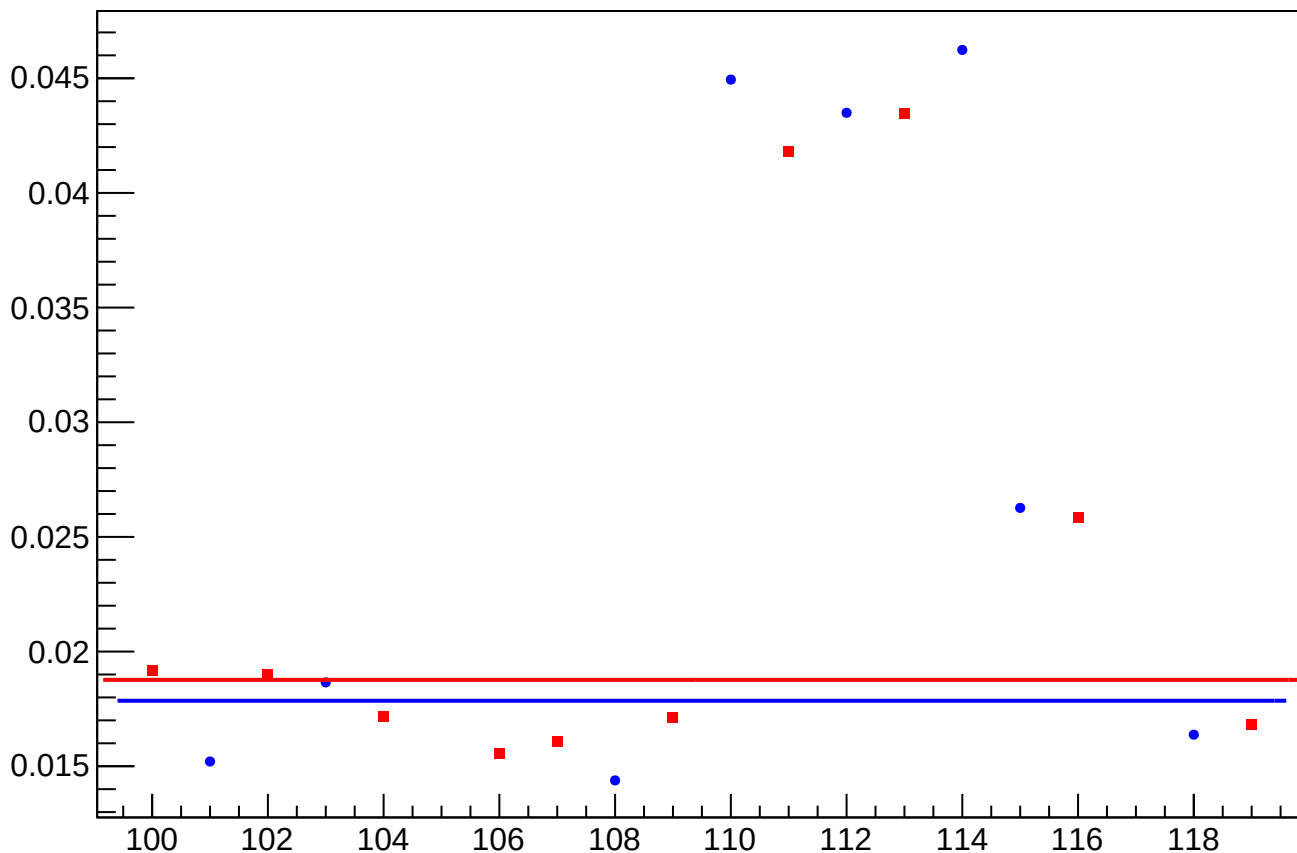
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.278+/-0.000  $\chi^2/\text{NDF}$ : 2773831320.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aY\_rms vs Slug



Right In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 759833.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 646383.6/9

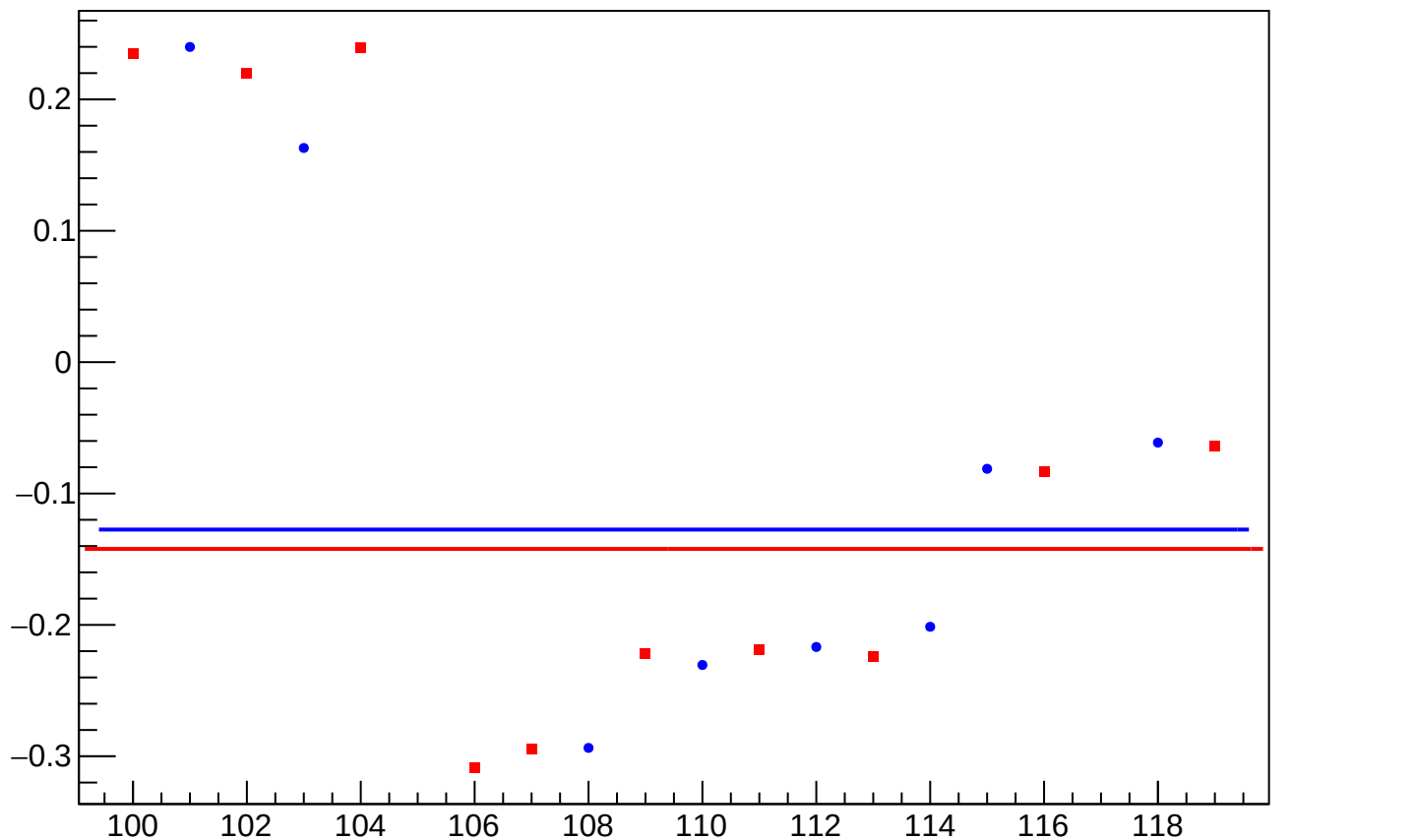
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 1413693.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eX\_mean vs Slug



Right In: -0.127+/-0.000  $\chi^2/\text{NDF}$ : 98779737.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.142+/-0.000  $\chi^2/\text{NDF}$ : 97127711.0/9

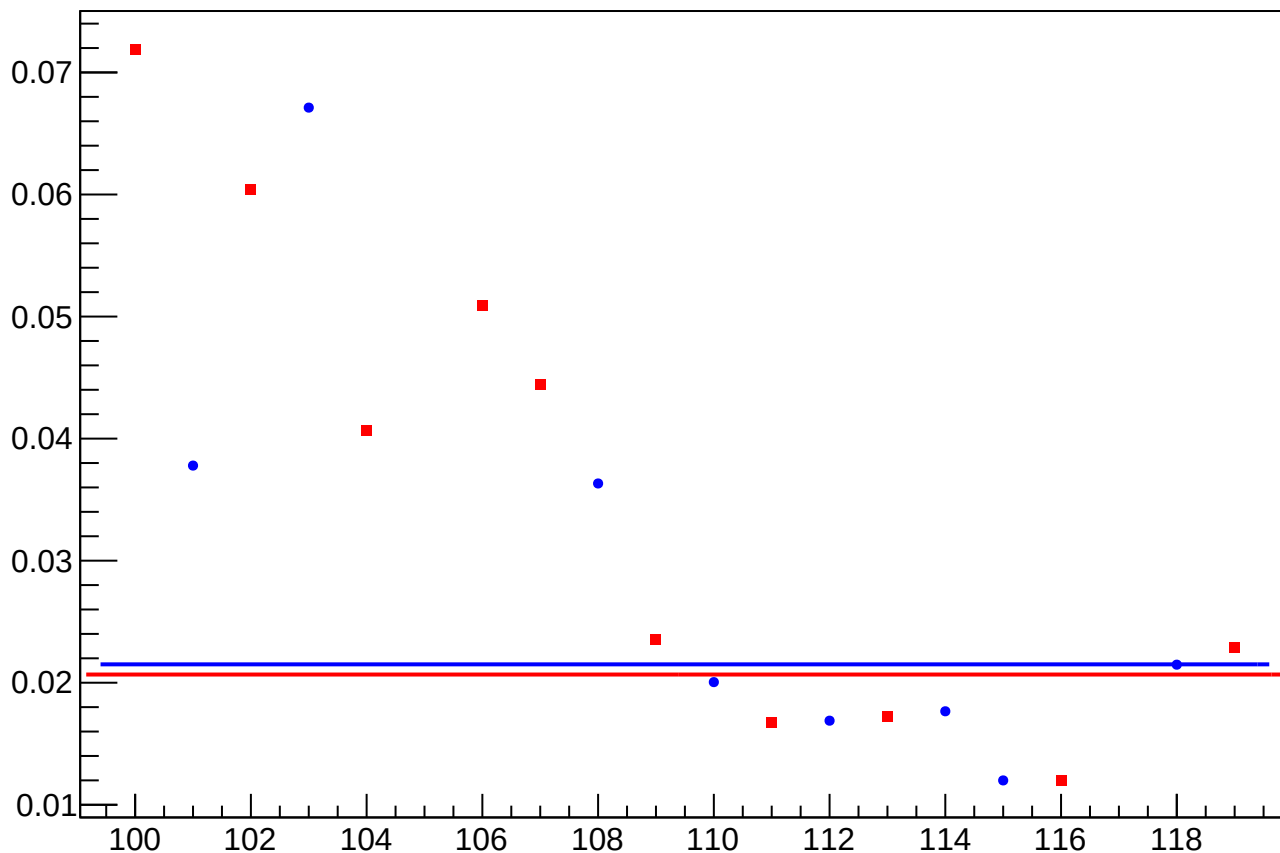
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.136+/-0.000  $\chi^2/\text{NDF}$ : 196526295.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eX\_rms vs Slug



Right In: 0.022+/-0.000  $\chi^2/\text{NDF}$ : 1047640.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 1351248.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

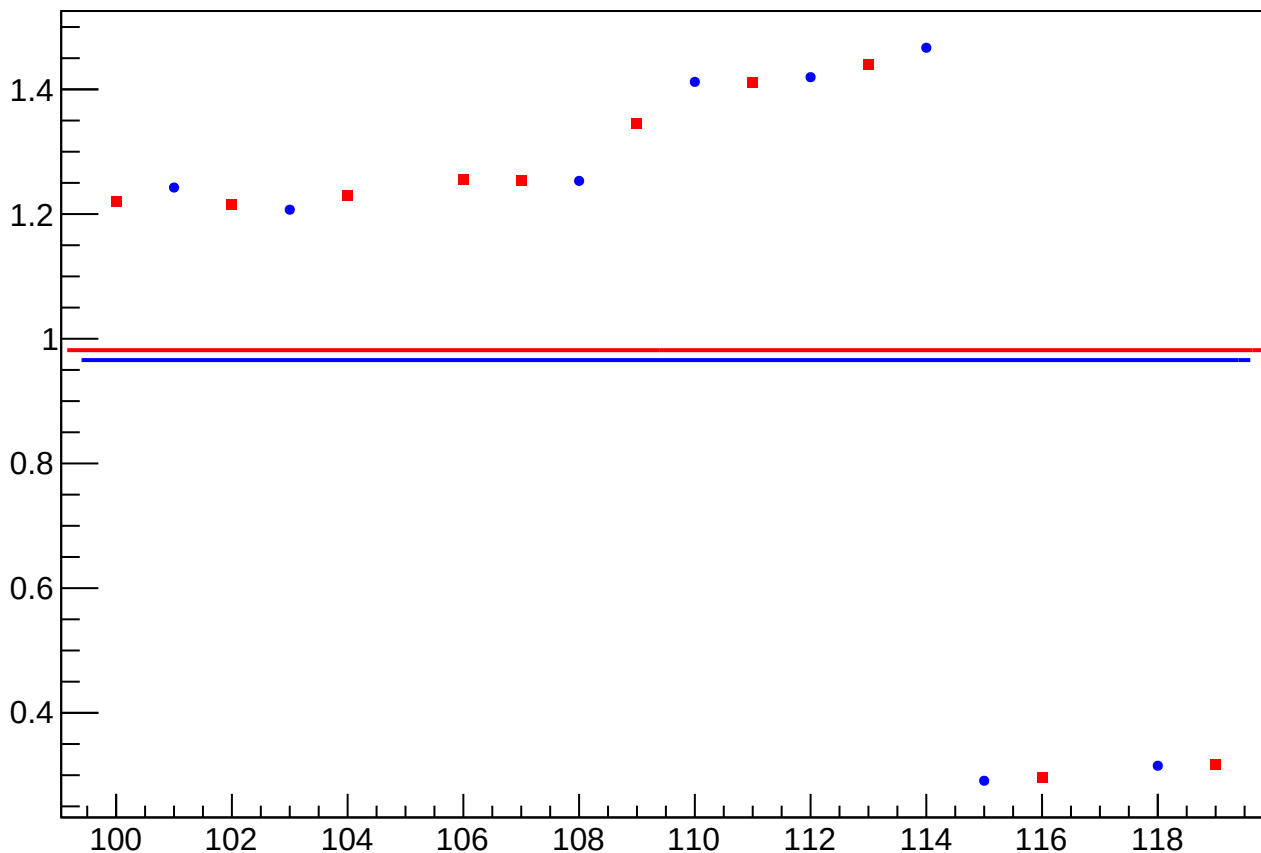
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 2402856.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm4eY\_mean vs Slug



Right In: 0.966+/-0.000  $\chi^2/\text{NDF}$ : 2442807418.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.982+/-0.000  $\chi^2/\text{NDF}$ : 2680237306.5/9

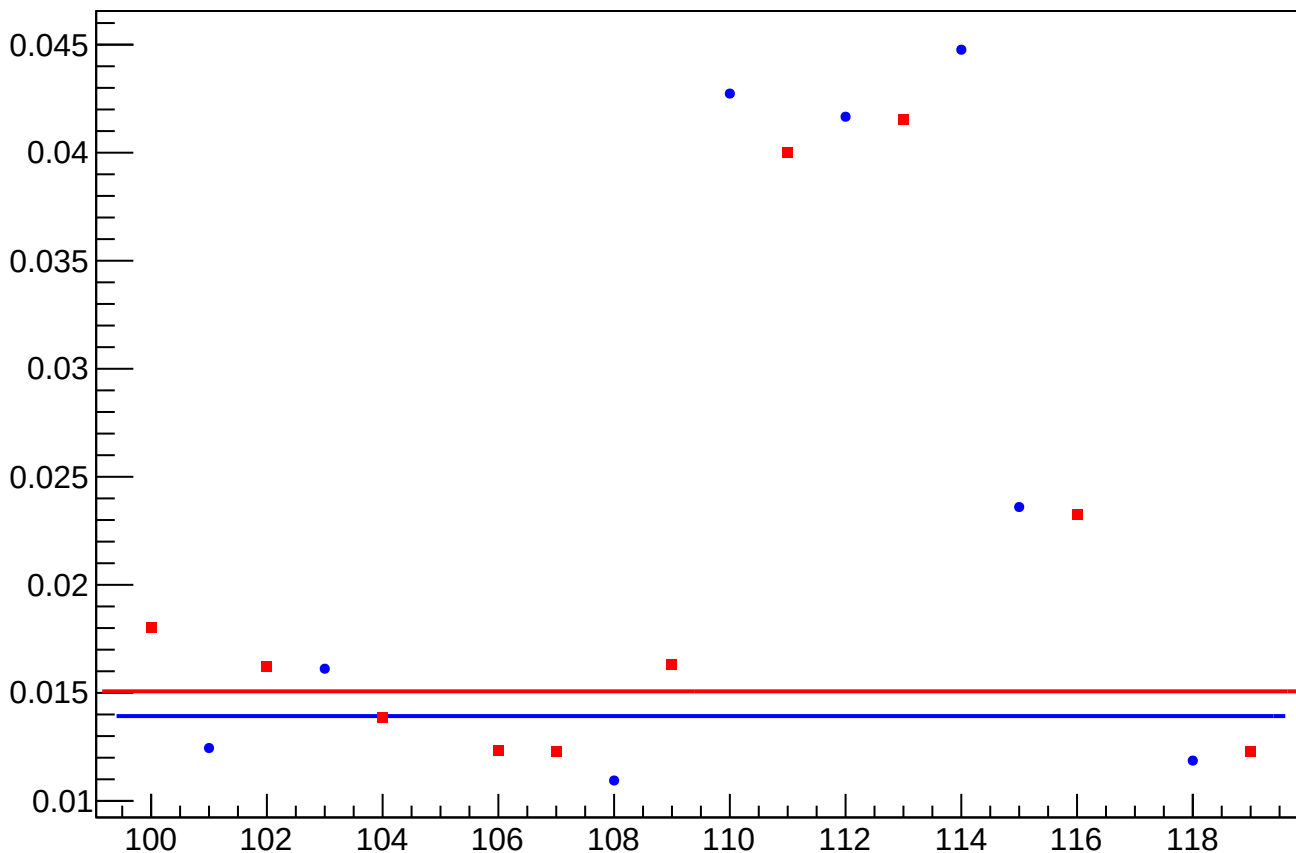
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.974+/-0.000  $\chi^2/\text{NDF}$ : 5124782268.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eY\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 974798.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 873395.8/9

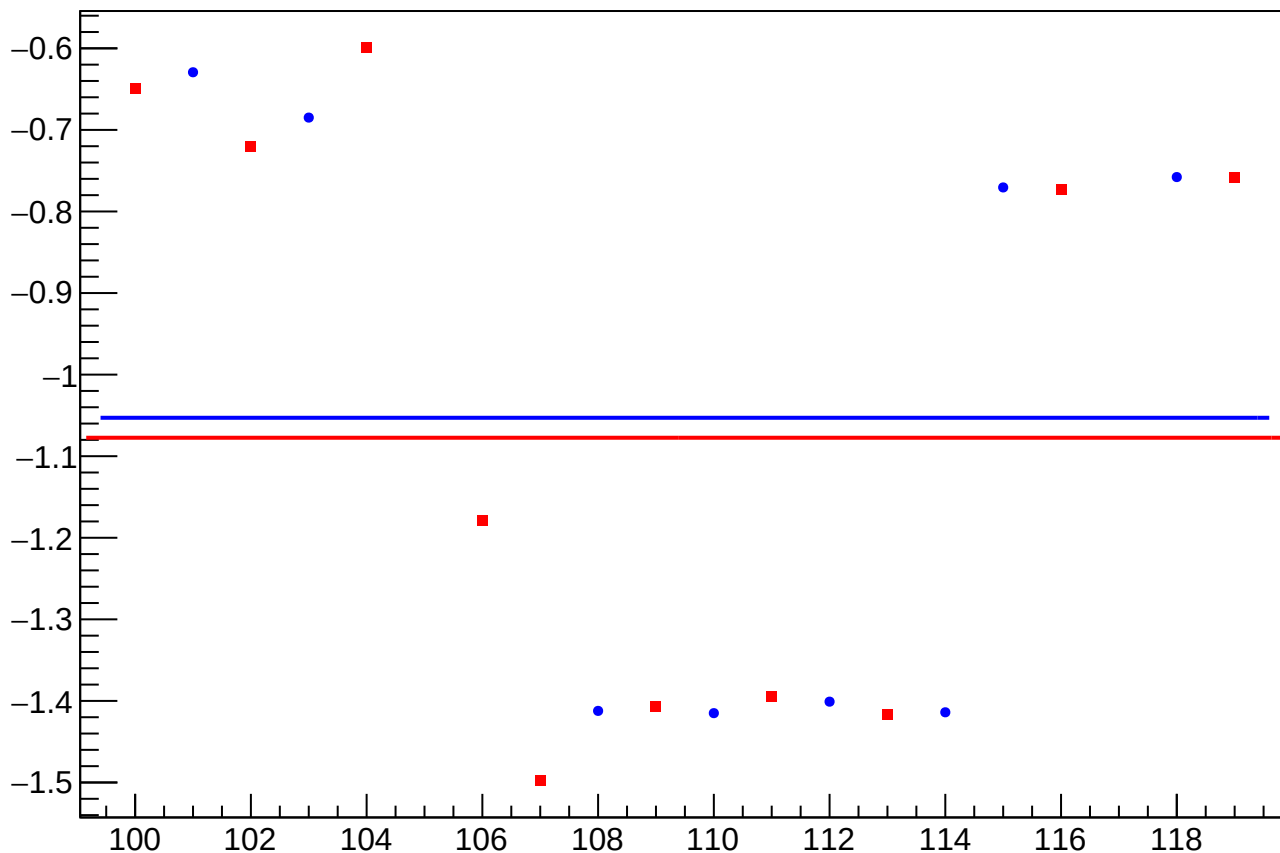
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1866205.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acX\_mean vs Slug



Right In: -1.053+/-0.000  $\chi^2/\text{NDF}$ : 437156891.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.077+/-0.000  $\chi^2/\text{NDF}$ : 501551121.2/9

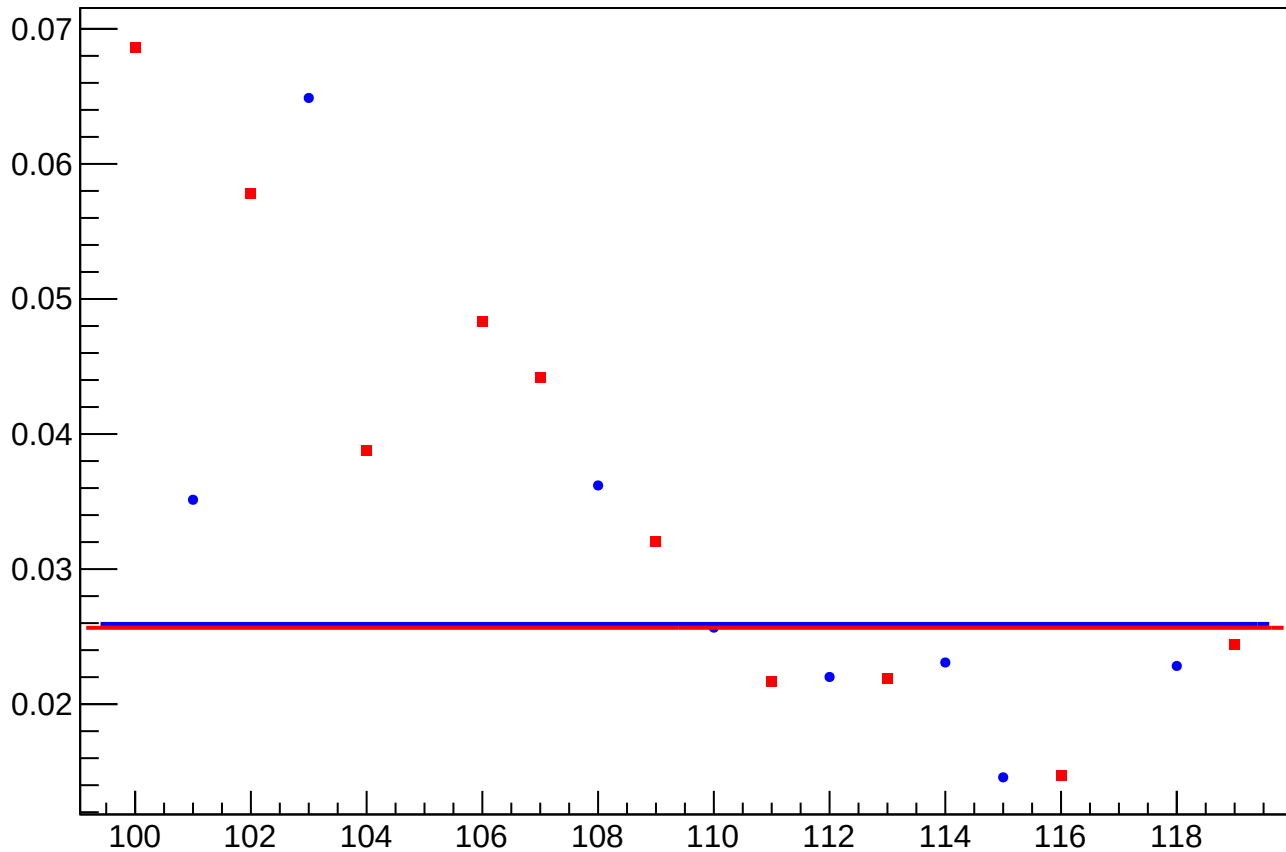
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.066+/-0.000  $\chi^2/\text{NDF}$ : 939925515.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acX\_rms vs Slug



Right In: 0.026 $\pm$ 0.000  $\chi^2$ /NDF: 703776.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.026 $\pm$ 0.000  $\chi^2$ /NDF: 973876.4/9

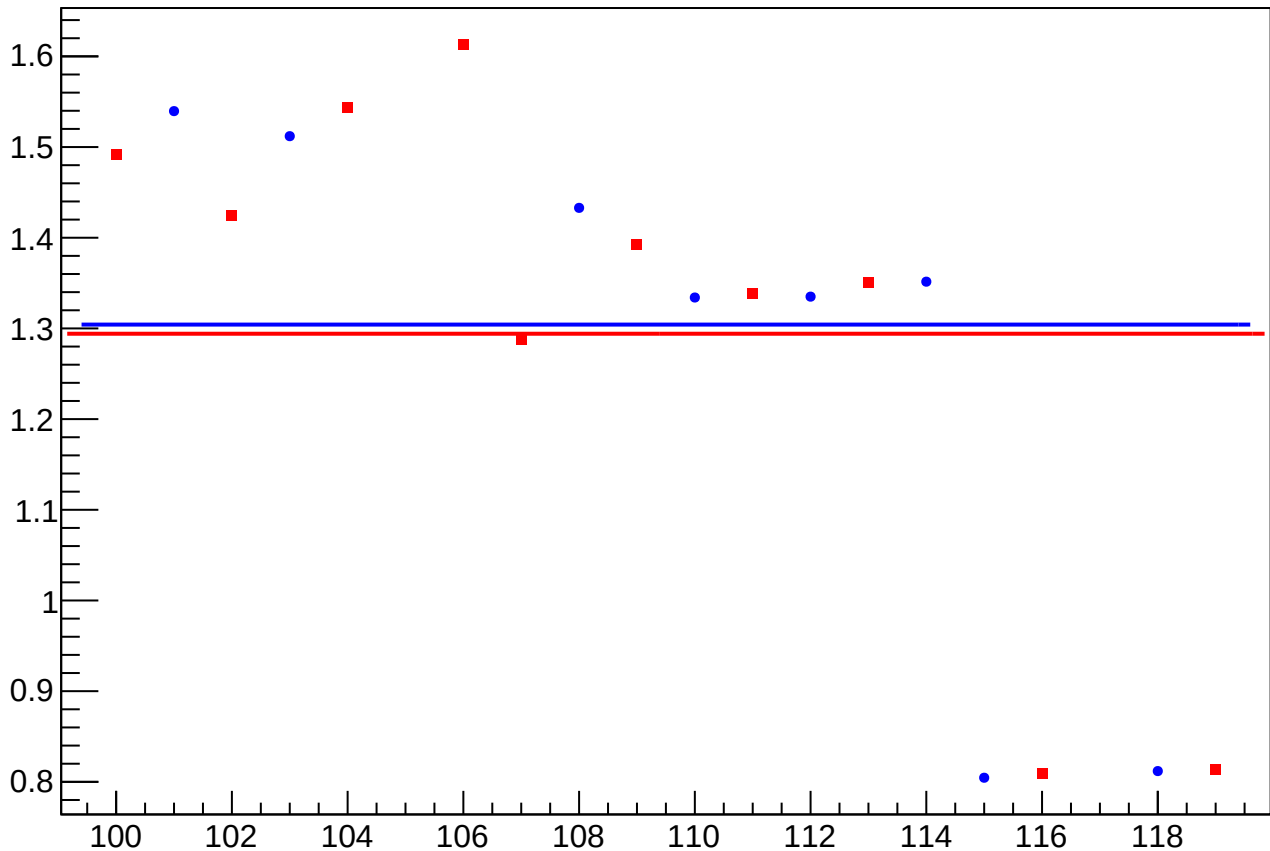
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.026 $\pm$ 0.000  $\chi^2$ /NDF: 1677983.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm4acY\_mean vs Slug



Right In: 1.304+/-0.000  $\chi^2/\text{NDF}$ : 745899207.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.294+/-0.000  $\chi^2/\text{NDF}$ : 813721235.0/9

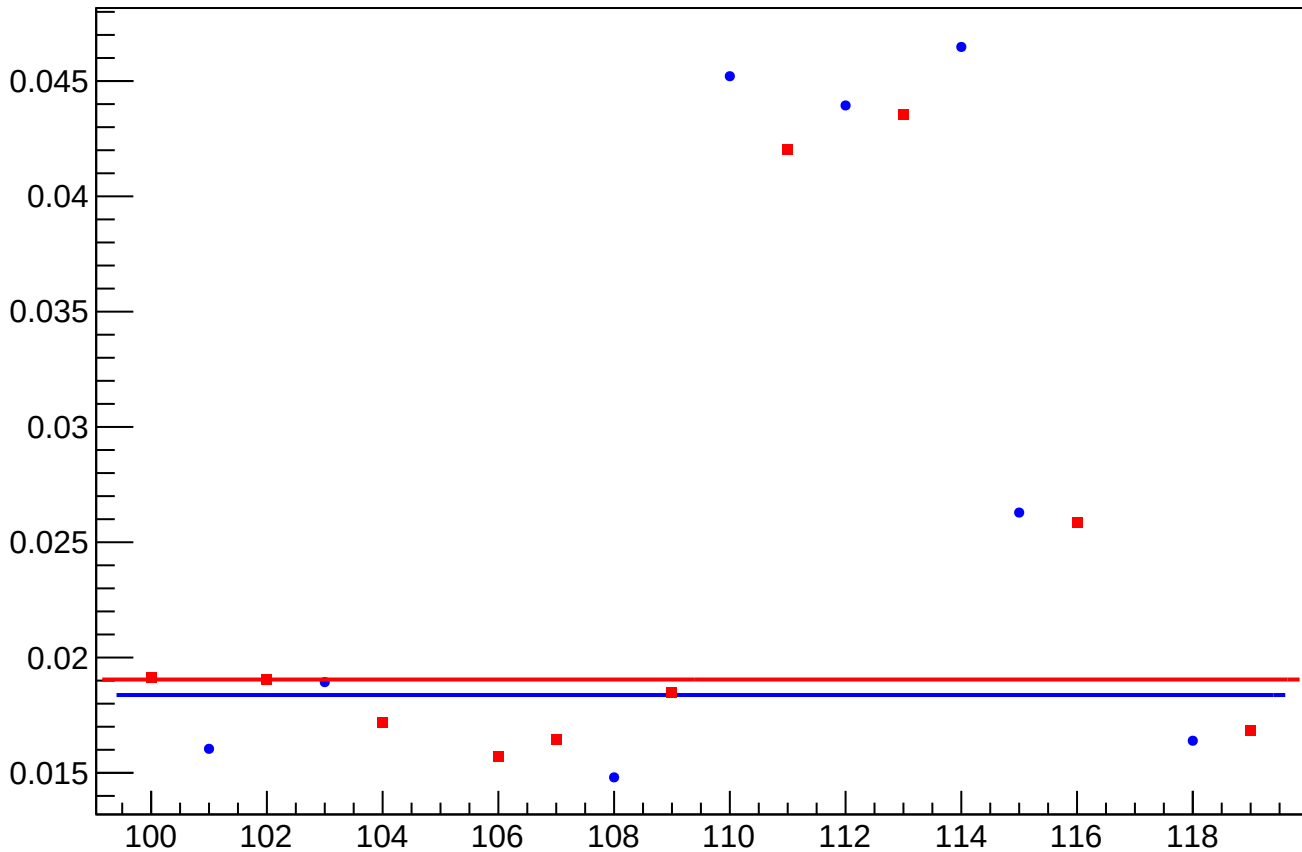
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.299+/-0.000  $\chi^2/\text{NDF}$ : 1560057771.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acY\_rms vs Slug



Right In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 731957.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 634264.3/9

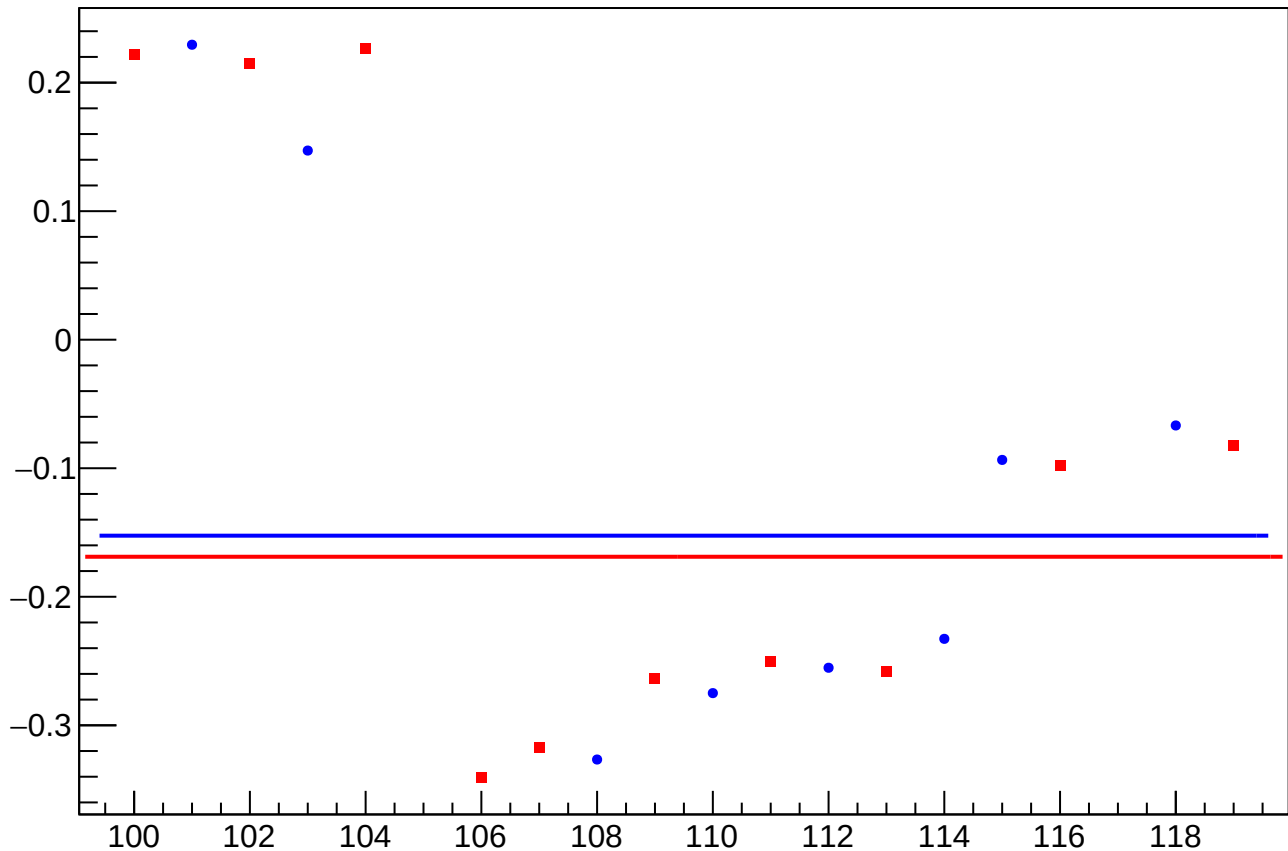
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 1370099.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4ecX\_mean vs Slug



Right In:  $-0.152 \pm 0.000$   $\chi^2/\text{NDF}$ : 113426814.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.169 \pm 0.000$   $\chi^2/\text{NDF}$ : 107755747.0/9

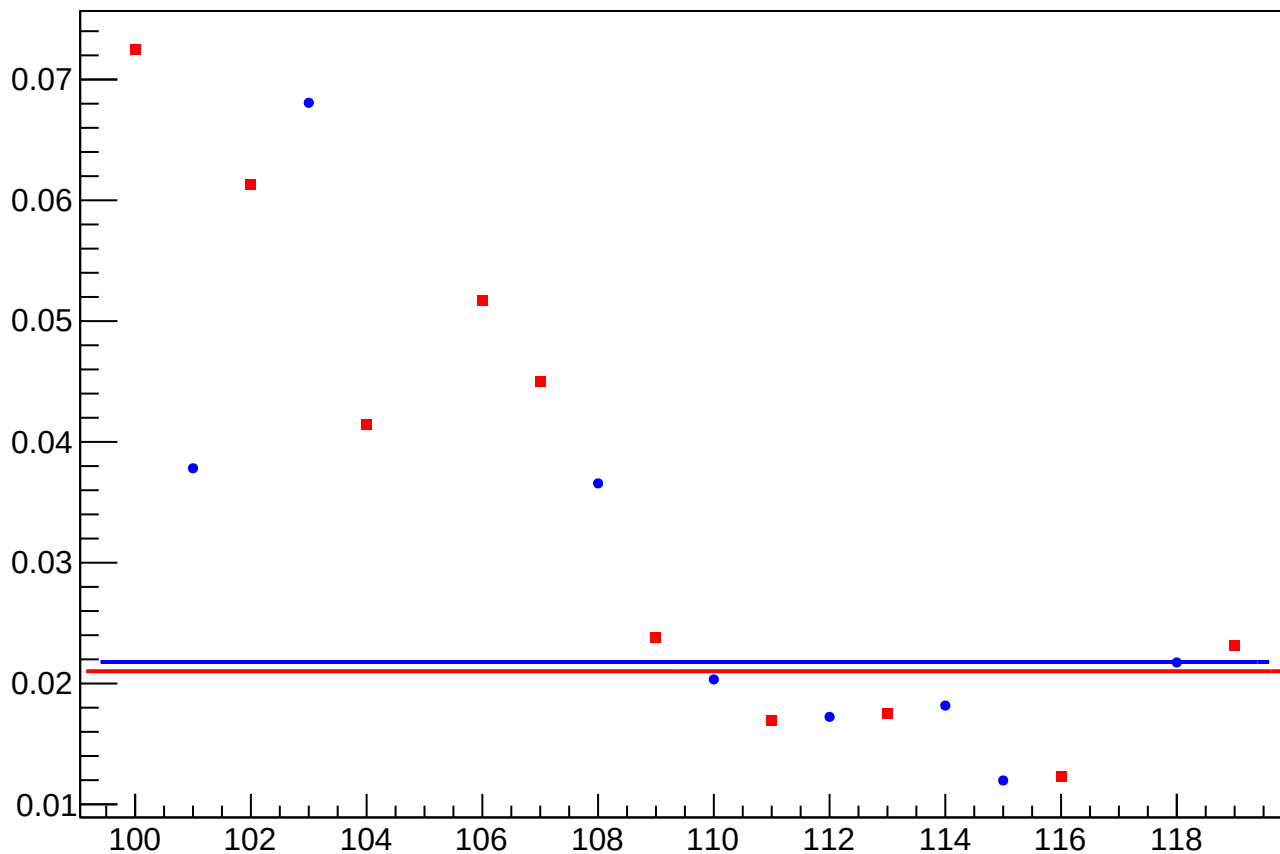
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.162 \pm 0.000$   $\chi^2/\text{NDF}$ : 221928251.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4ecX\_rms vs Slug



Right In: 0.022 $\pm$ 0.000  $\chi^2$ /NDF: 1038061.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.021 $\pm$ 0.000  $\chi^2$ /NDF: 1343281.7/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

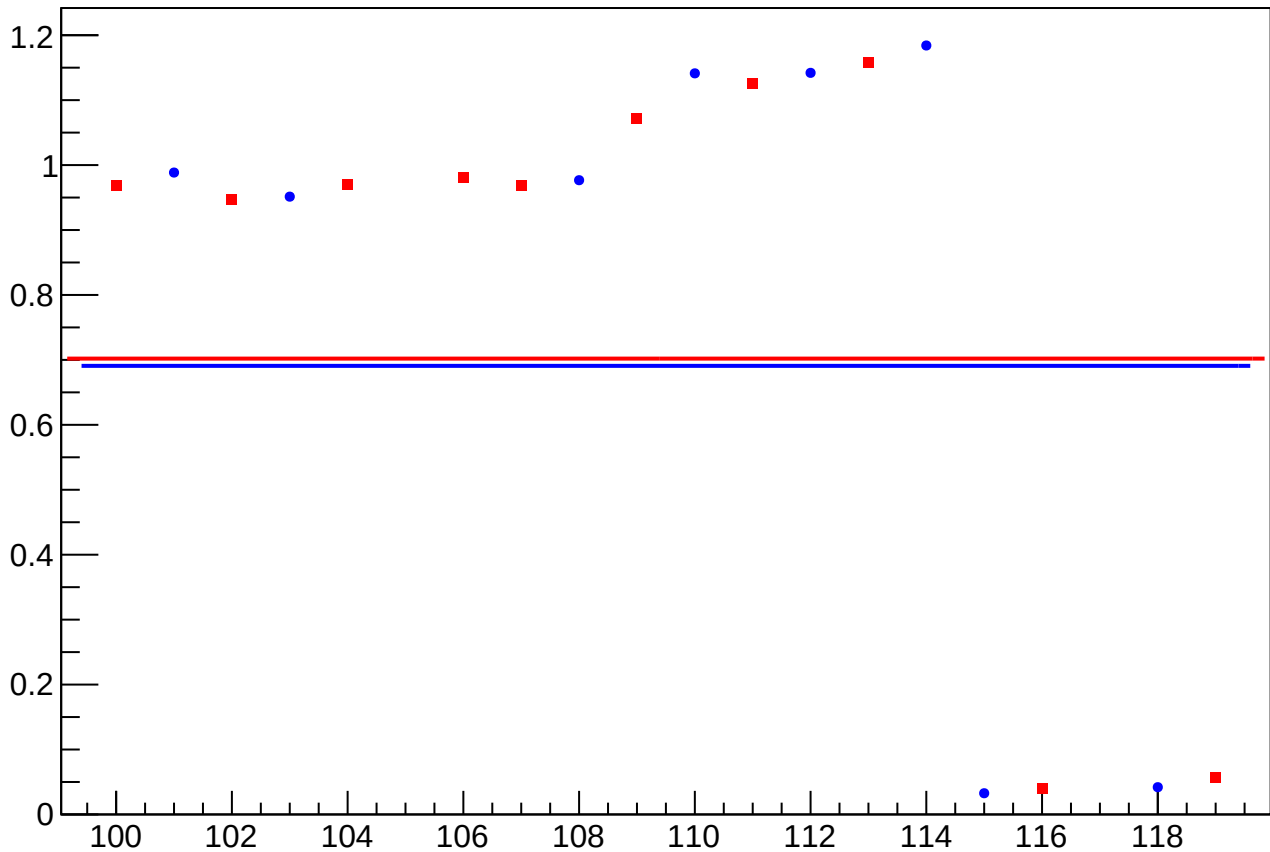
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.021 $\pm$ 0.000  $\chi^2$ /NDF: 2384607.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bpm4ecY\_mean vs Slug



Right In: 0.691+/-0.000  $\chi^2/\text{NDF}$ : 2565216890.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.702+/-0.000  $\chi^2/\text{NDF}$ : 2713124050.6/9

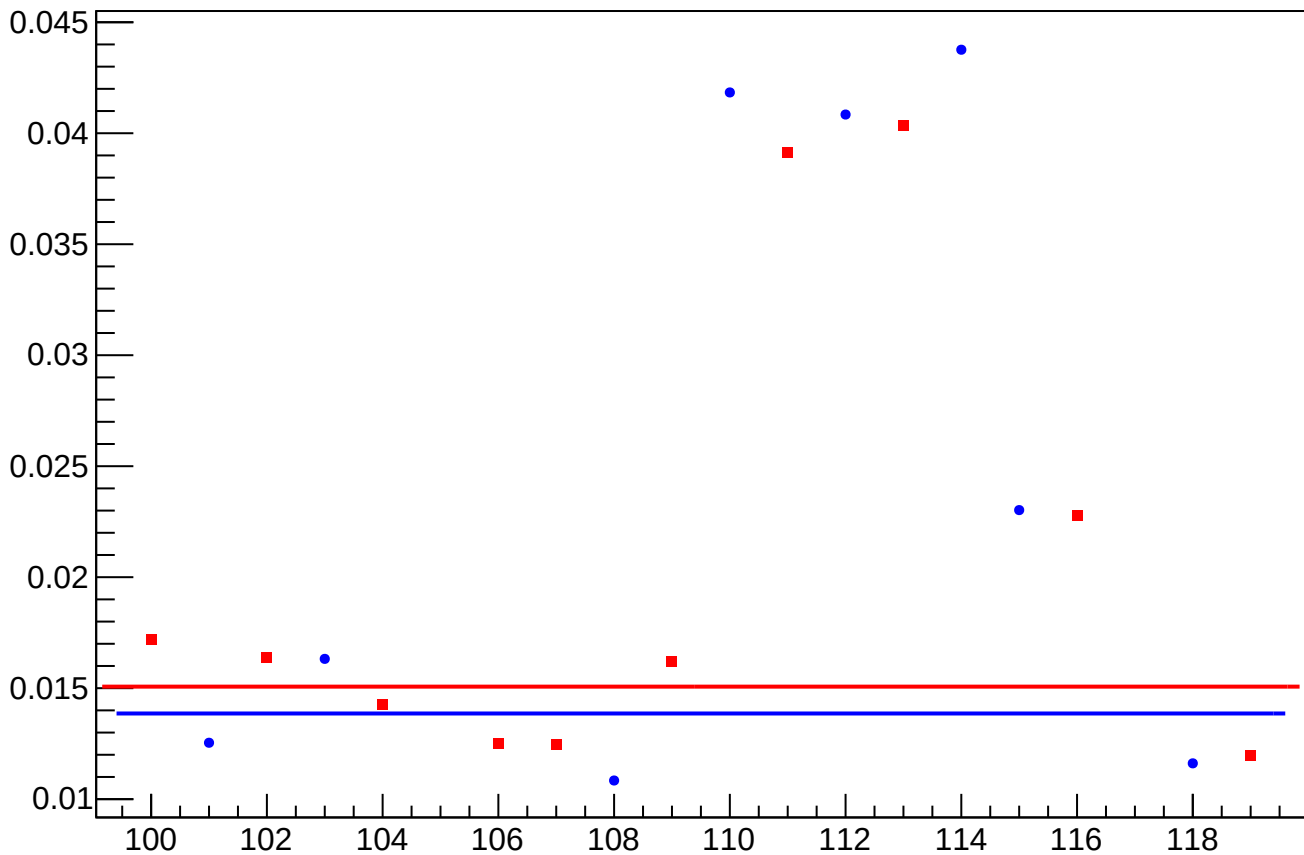
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.697+/-0.000  $\chi^2/\text{NDF}$ : 5279205707.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4ecY\_rms vs Slug



Right In: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 971381.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.015 $\pm$ 0.000  $\chi^2$ /NDF: 855543.1/9

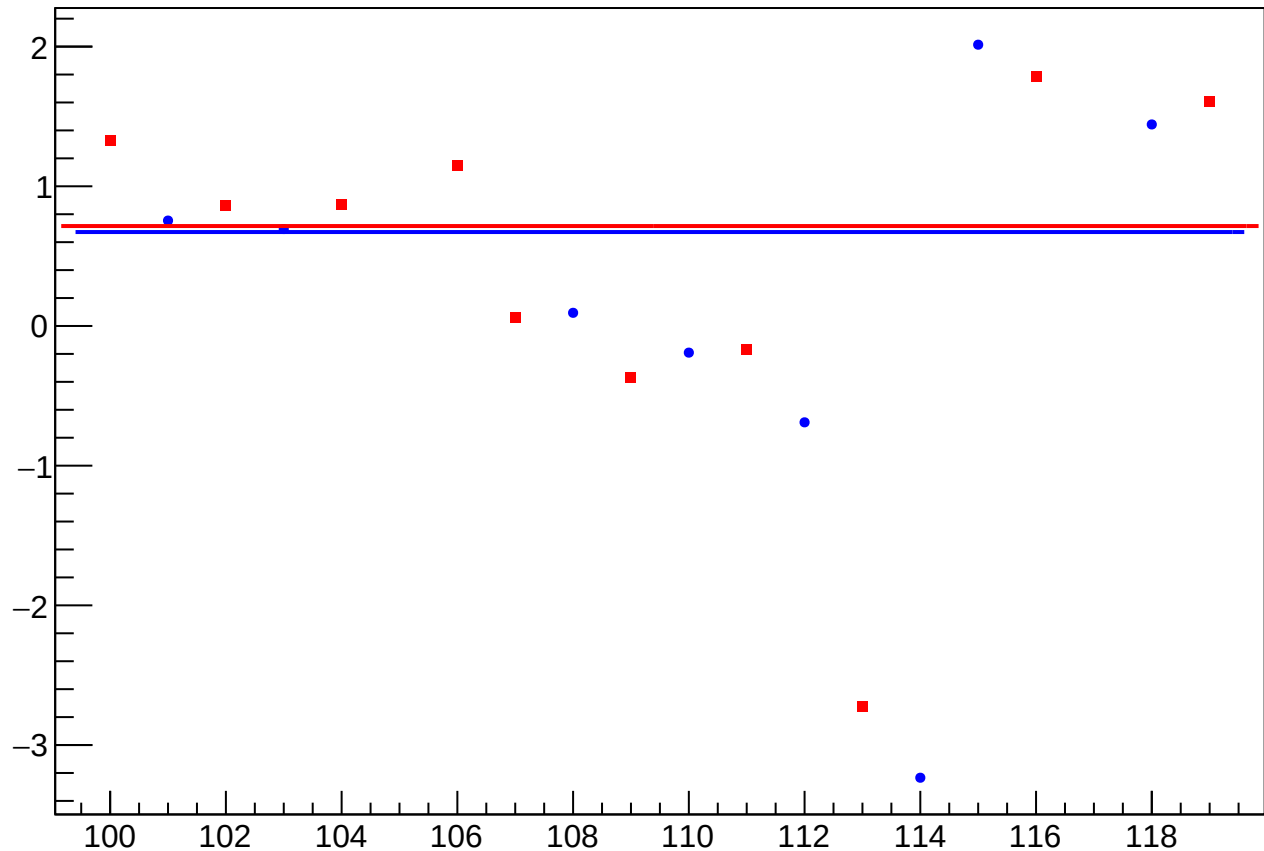
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 1847175.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1X\_mean vs Slug



Right In: 0.672+/-0.000  $\chi^2/\text{NDF}$ : 321612159.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.715+/-0.000  $\chi^2/\text{NDF}$ : 982596983.1/9

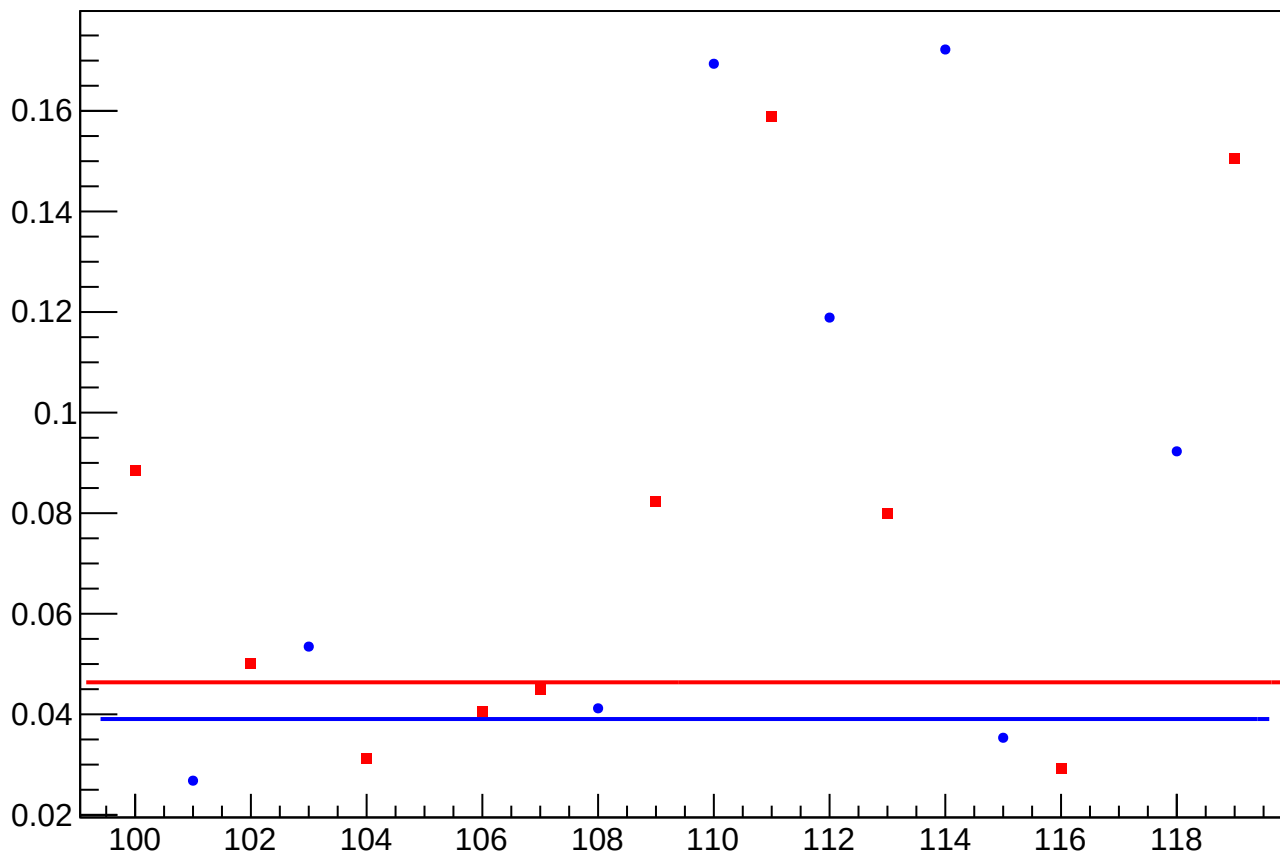
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.693+/-0.000  $\chi^2/\text{NDF}$ : 1305325729.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1X\_rms vs Slug



Right In: 0.039+/-0.000  $\chi^2/\text{NDF}$ : 1463007.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.046+/-0.000  $\chi^2/\text{NDF}$ : 1495334.3/9

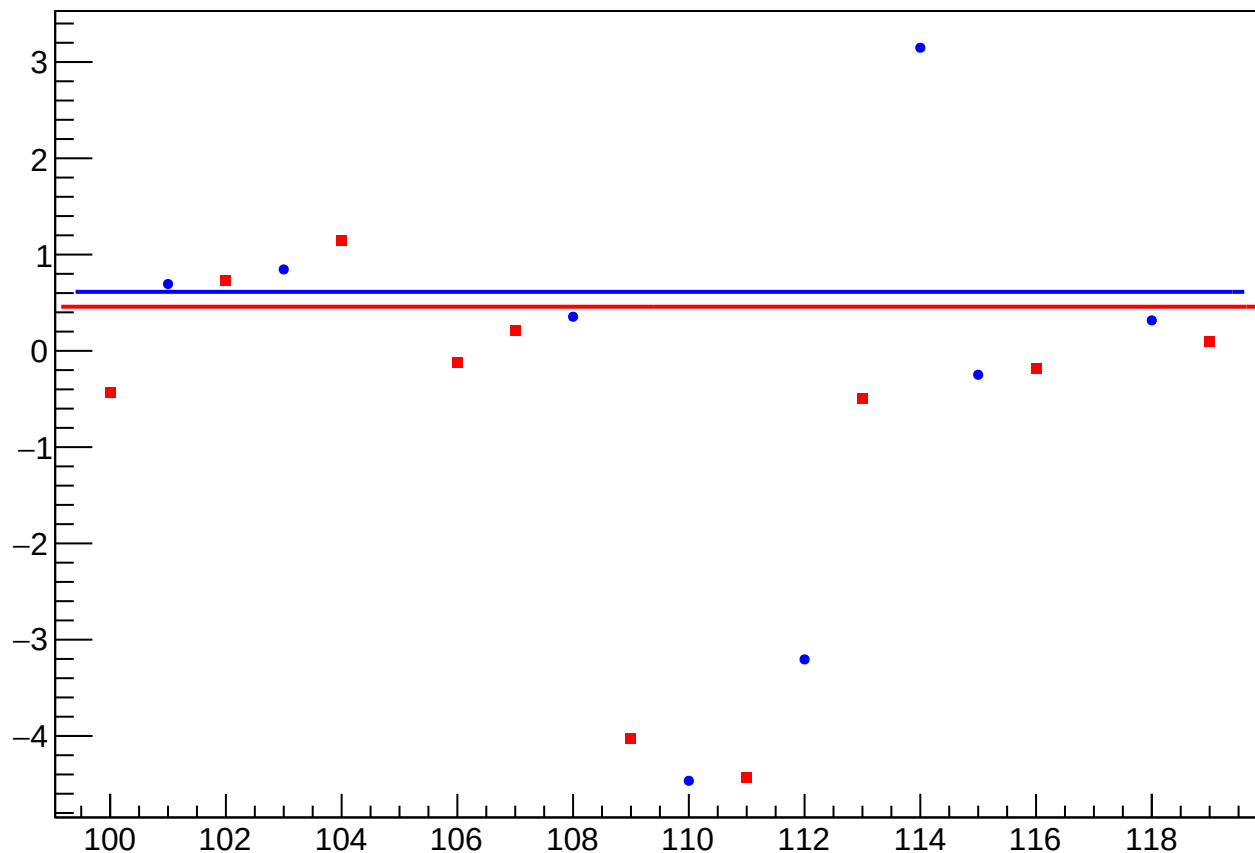
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.042+/-0.000  $\chi^2/\text{NDF}$ : 3022982.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1Y\_mean vs Slug



Right In: 0.613+/-0.000  $\chi^2/\text{NDF}$ : 1342966656.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.458+/-0.000  $\chi^2/\text{NDF}$ : 3699867404.4/9

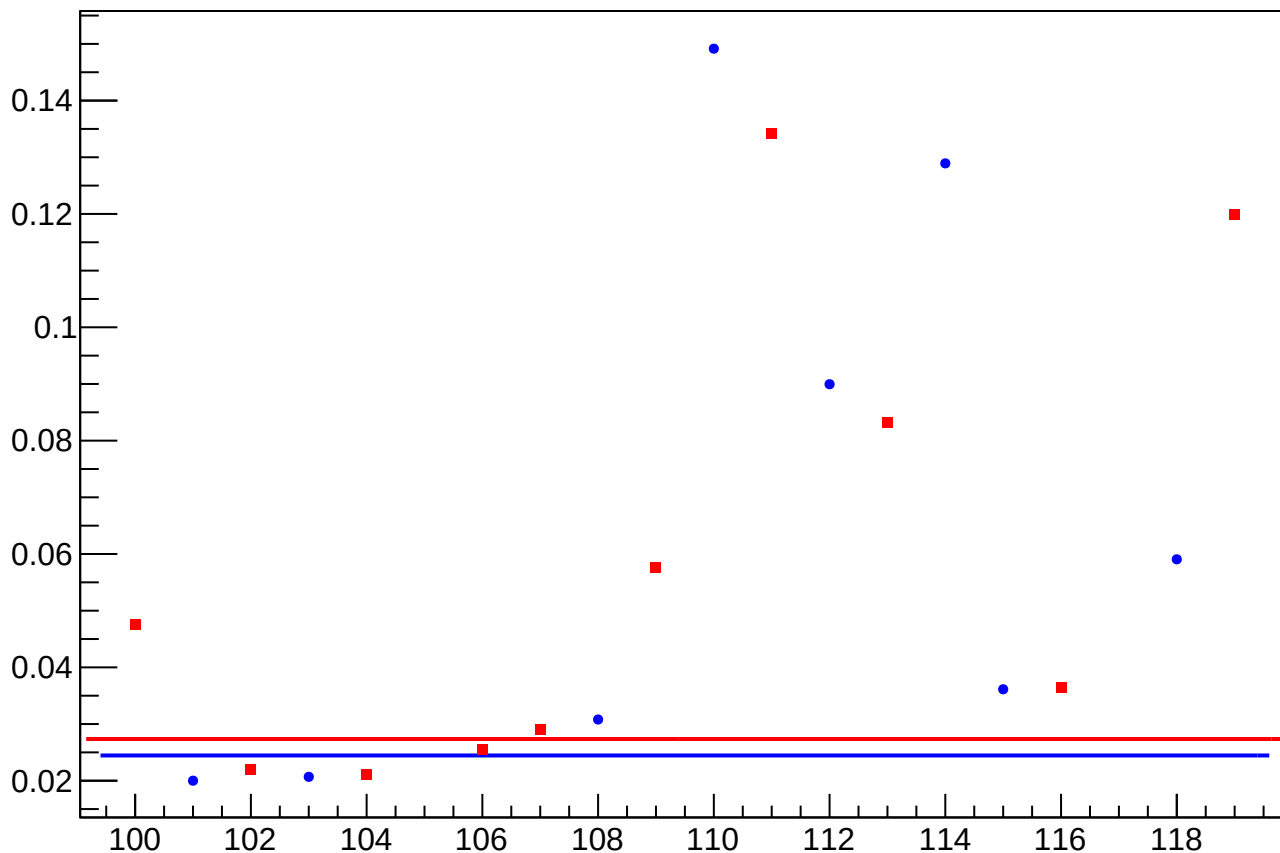
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.536+/-0.000  $\chi^2/\text{NDF}$ : 5081716539.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1Y\_rms vs Slug



Right In: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 1392834.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 1882167.3/9

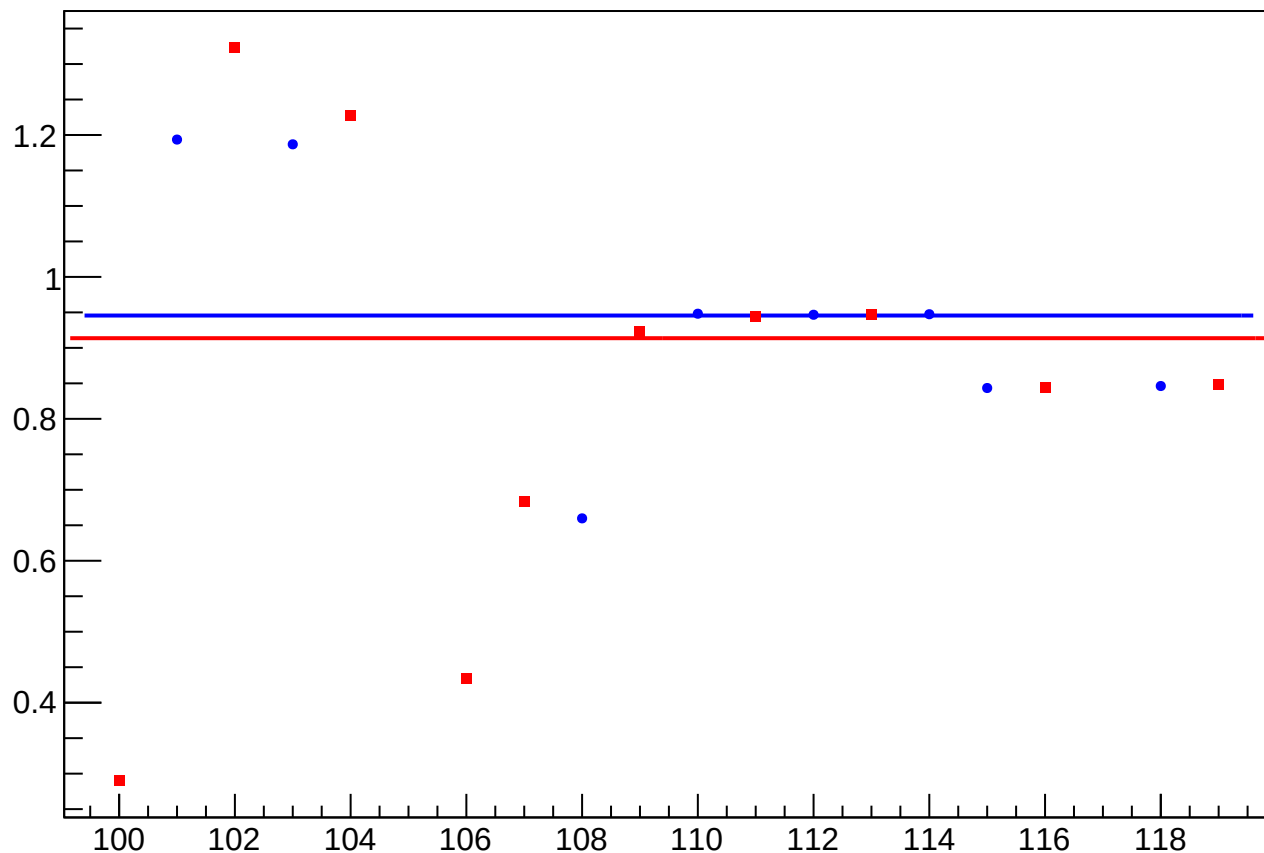
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 3302506.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm11X\_mean vs Slug



Right In: 0.946+/-0.000  $\chi^2/\text{NDF}$ : 278847109.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.914+/-0.000  $\chi^2/\text{NDF}$ : 467312500.7/9

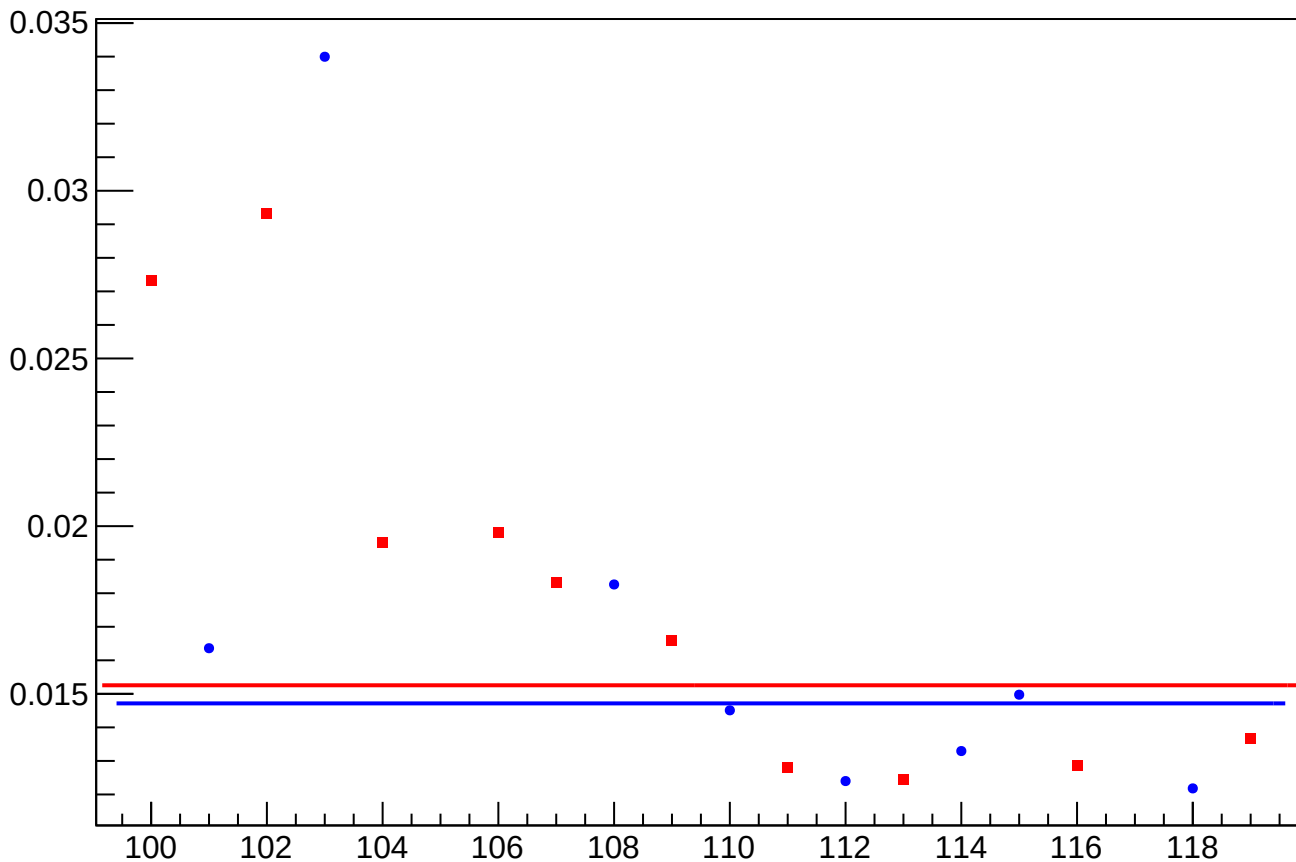
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.928+/-0.000  $\chi^2/\text{NDF}$ : 753009541.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm11X\_rms vs Slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 476590.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 474430.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

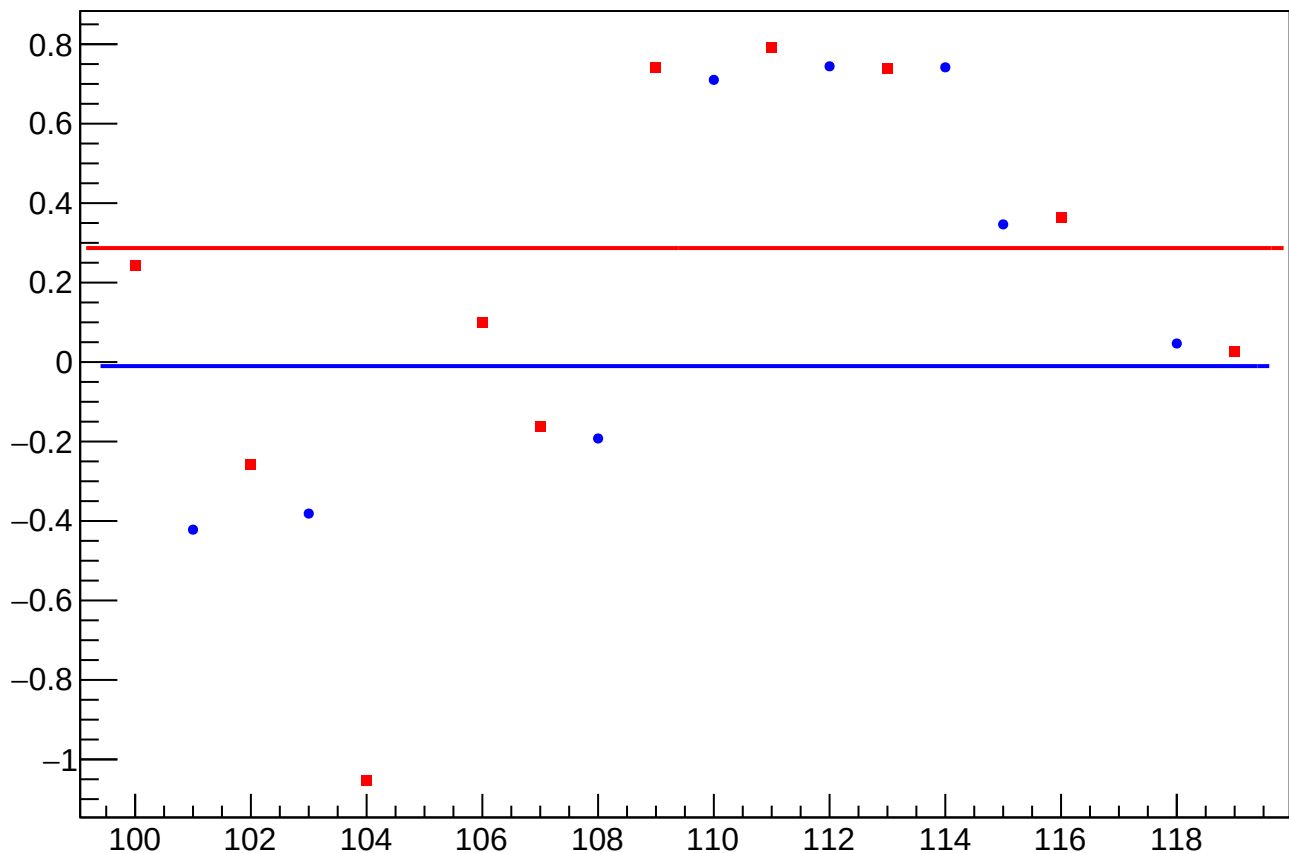
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 954933.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm11Y\_mean vs Slug



Right In: -0.010+/-0.000  $\chi^2/\text{NDF}$ : 1817350743.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.287+/-0.000  $\chi^2/\text{NDF}$ : 5983490950.9/9

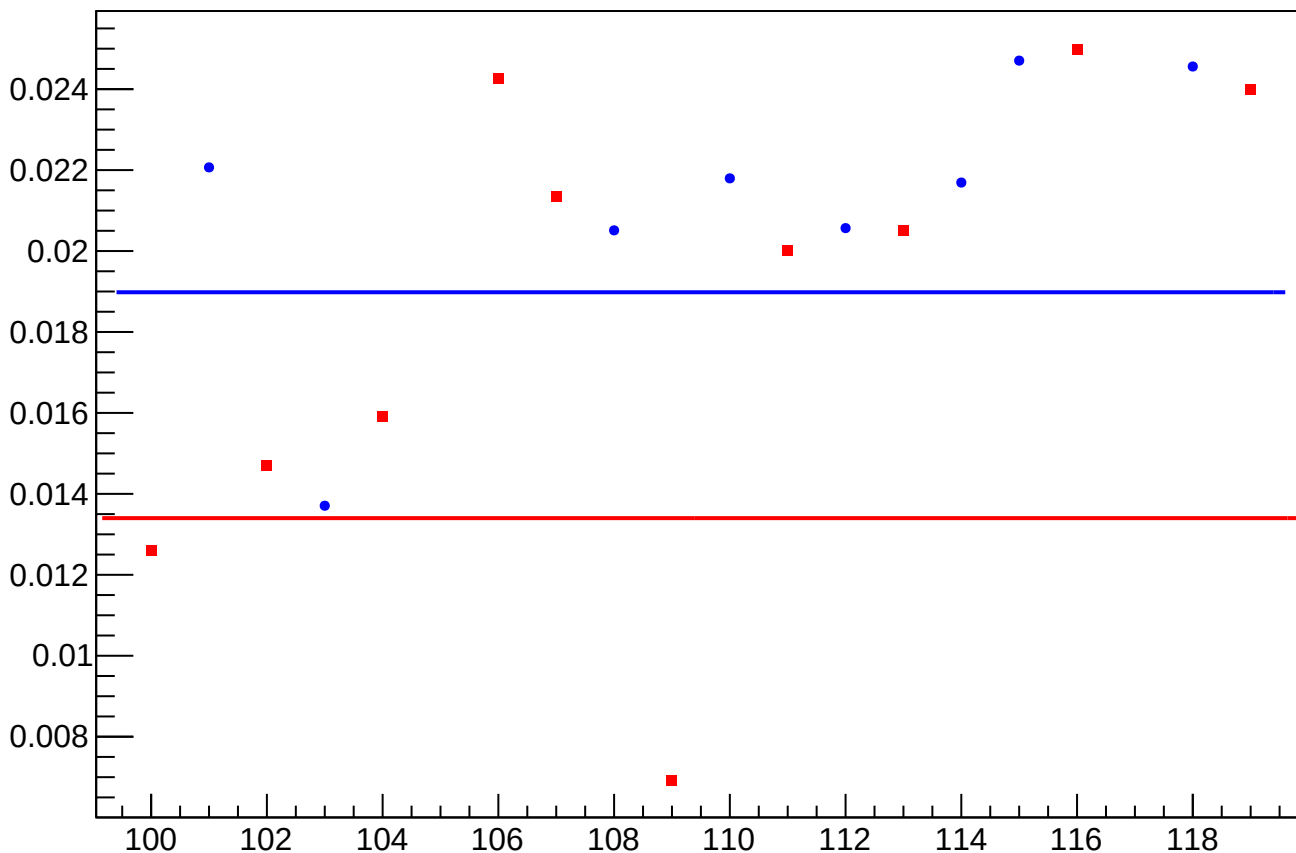
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.189+/-0.000  $\chi^2/\text{NDF}$ : 8272883703.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm11Y\_rms vs Slug



Right In: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 278201.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 1312975.1/9

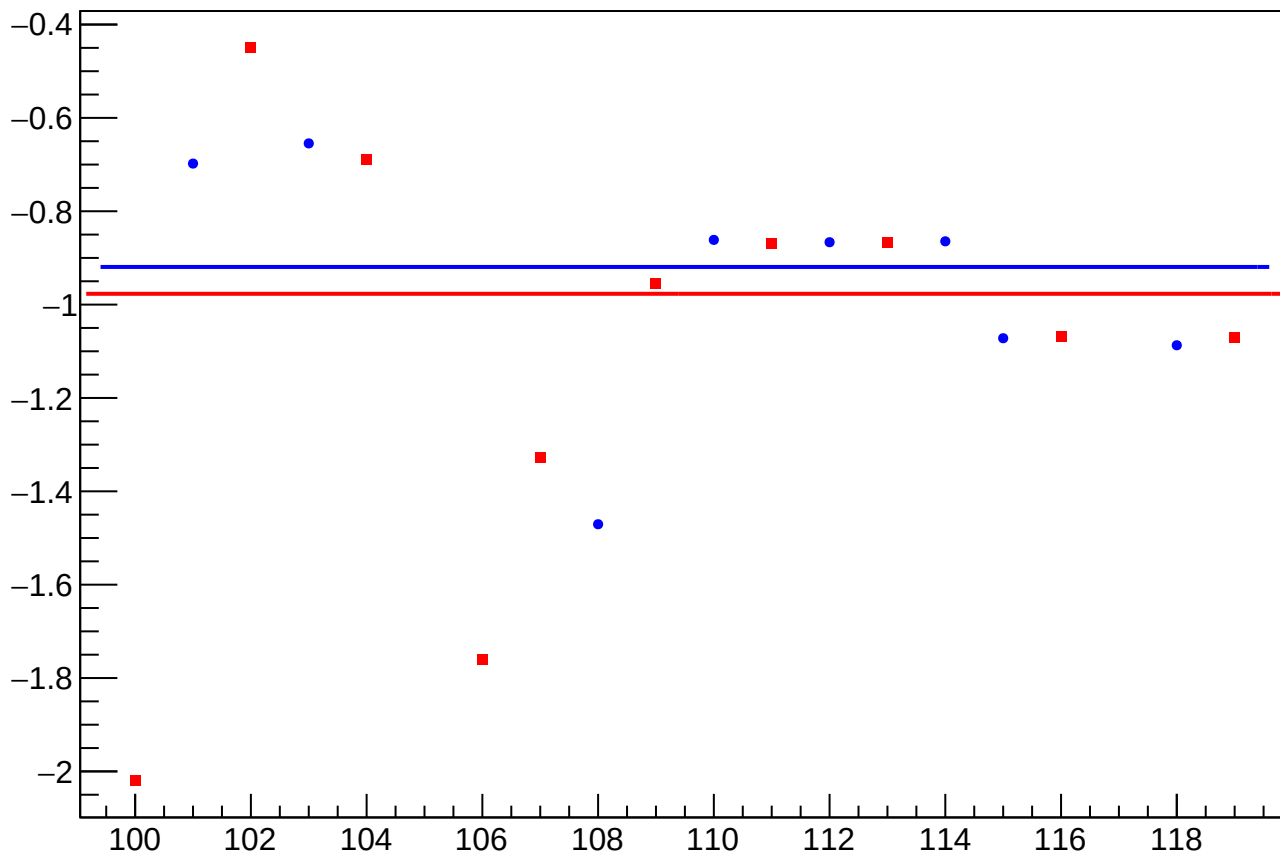
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1924366.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12X\_mean vs Slug



Right In: -0.919+/-0.000  $\chi^2/\text{NDF}$ : 113071139.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.977+/-0.000  $\chi^2/\text{NDF}$ : 232071605.1/9

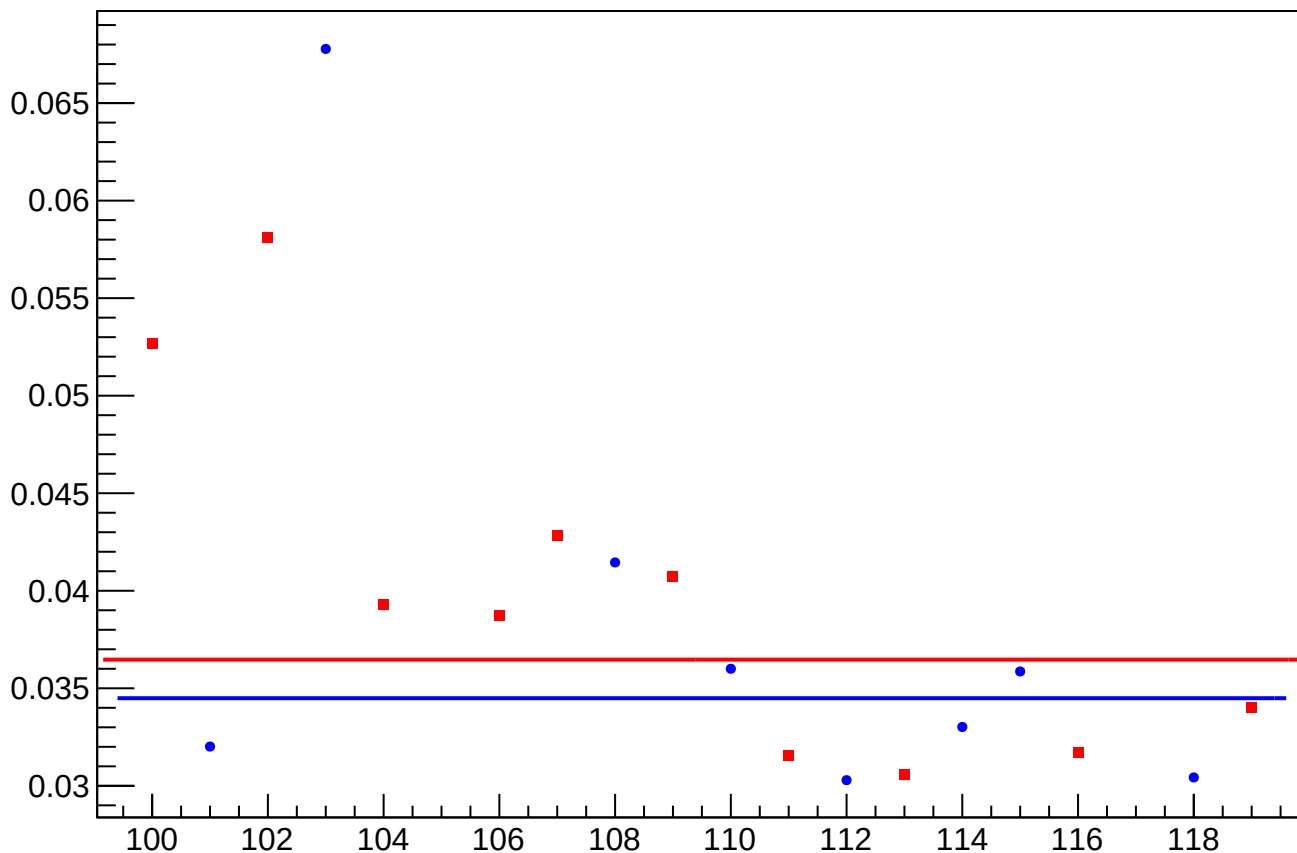
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.949+/-0.000  $\chi^2/\text{NDF}$ : 349186856.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12X\_rms vs Slug



Right In: 0.034+/-0.000  $\chi^2/\text{NDF}$ : 329360.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.036+/-0.000  $\chi^2/\text{NDF}$ : 257147.1/9

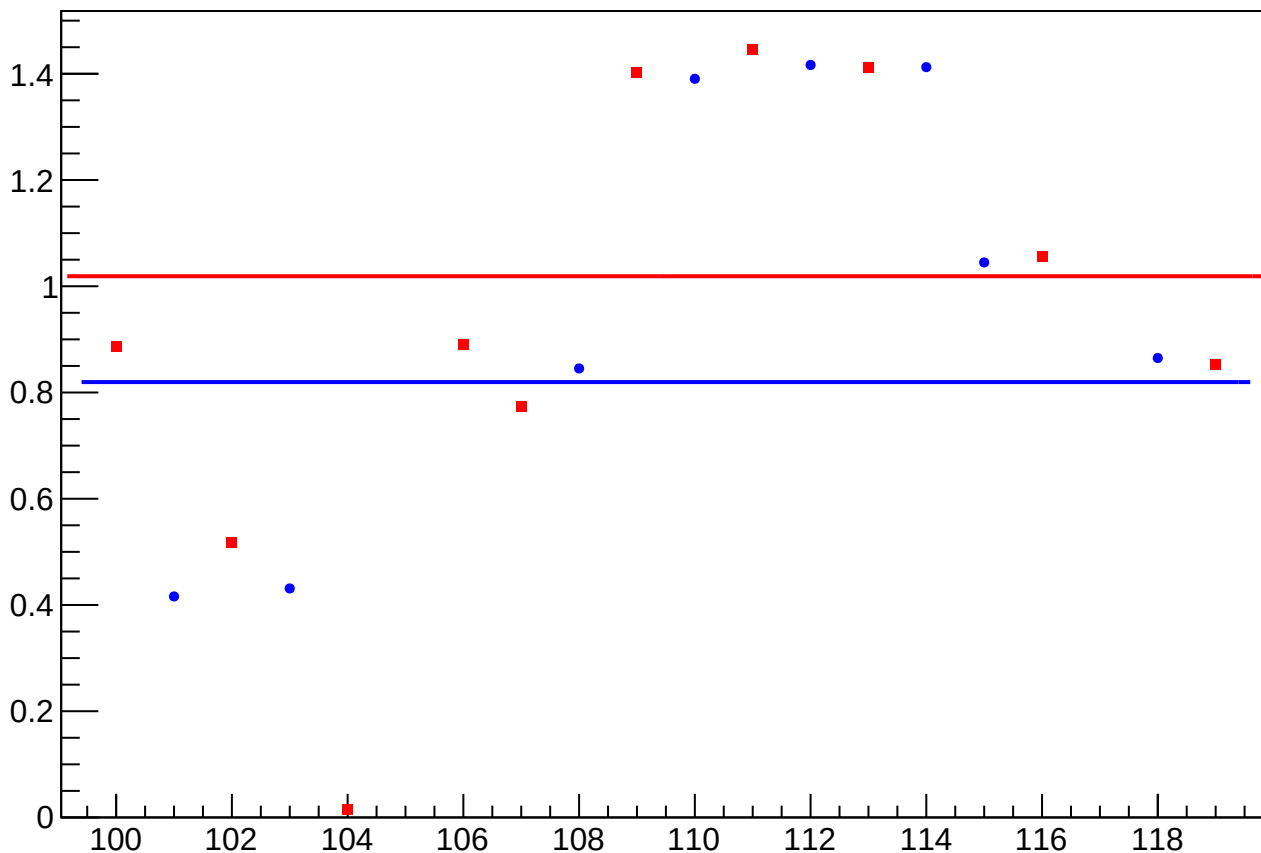
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.036+/-0.000  $\chi^2/\text{NDF}$ : 596062.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12Y\_mean vs Slug



Right In: 0.820+/-0.000  $\chi^2/\text{NDF}$ : 2880122363.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 1.019+/-0.000  $\chi^2/\text{NDF}$ : 6819919880.9/9

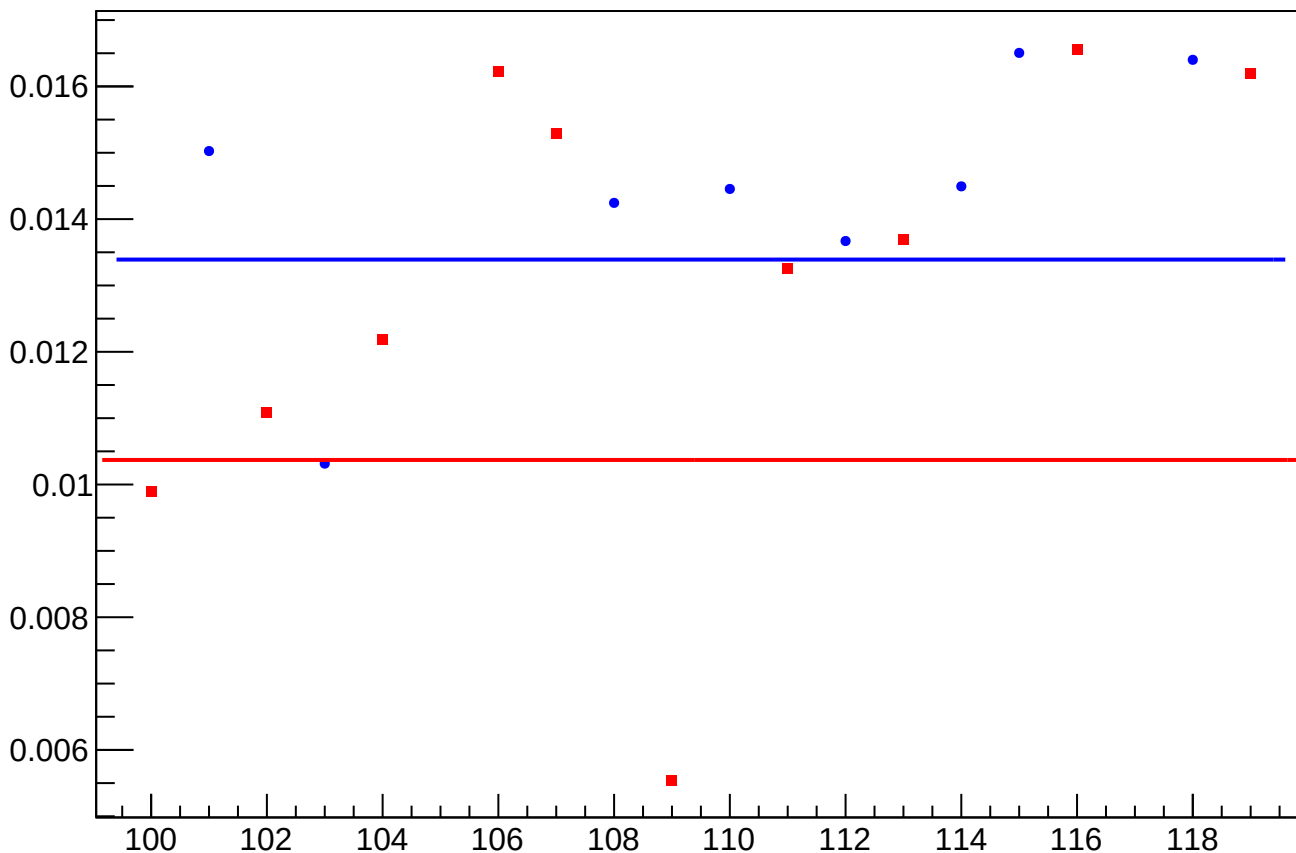
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.947+/-0.000  $\chi^2/\text{NDF}$ : 10113773195.8/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12Y\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 164400.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 945332.3/9

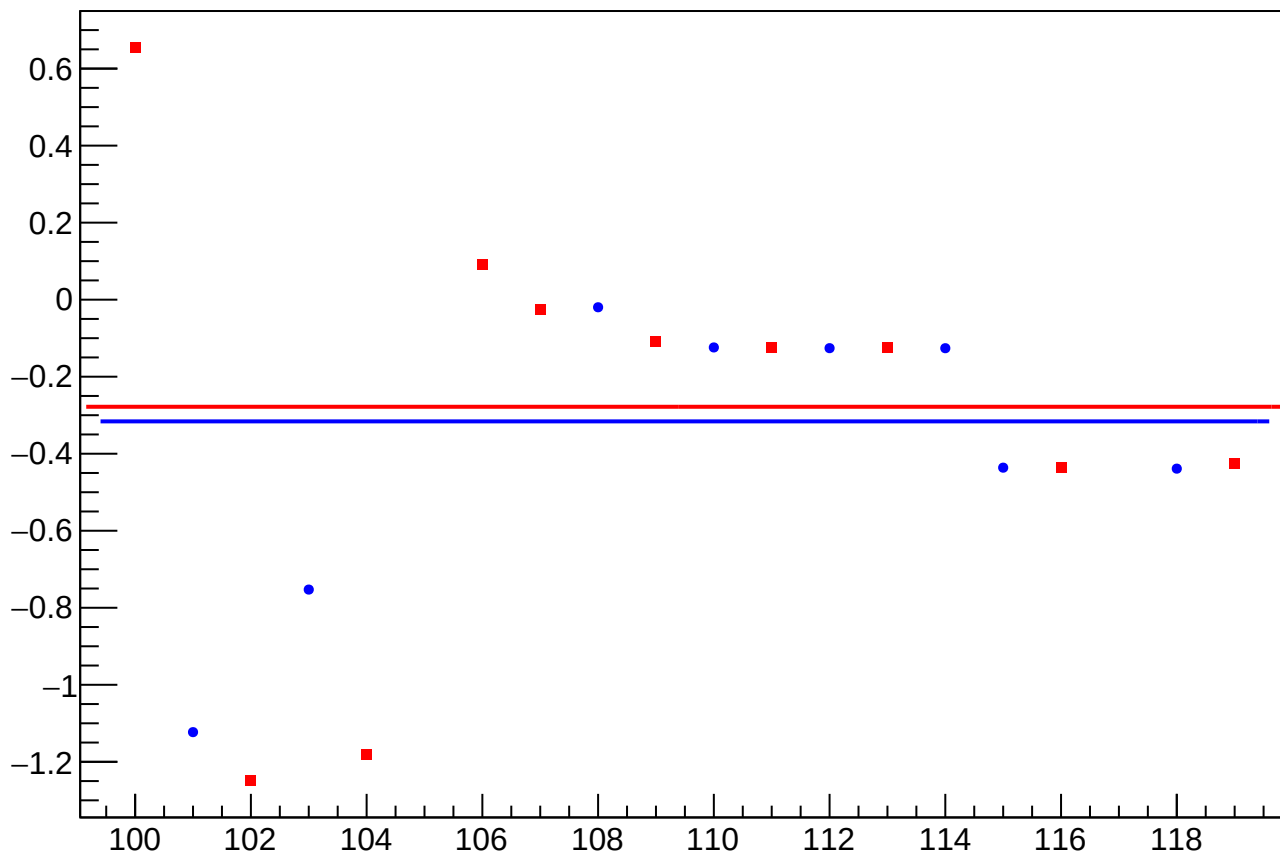
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 1299803.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16X\_mean vs Slug



Right In: -0.316+/-0.000  $\chi^2/\text{NDF}$ : 610602111.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.278+/-0.000  $\chi^2/\text{NDF}$ : 640324463.8/9

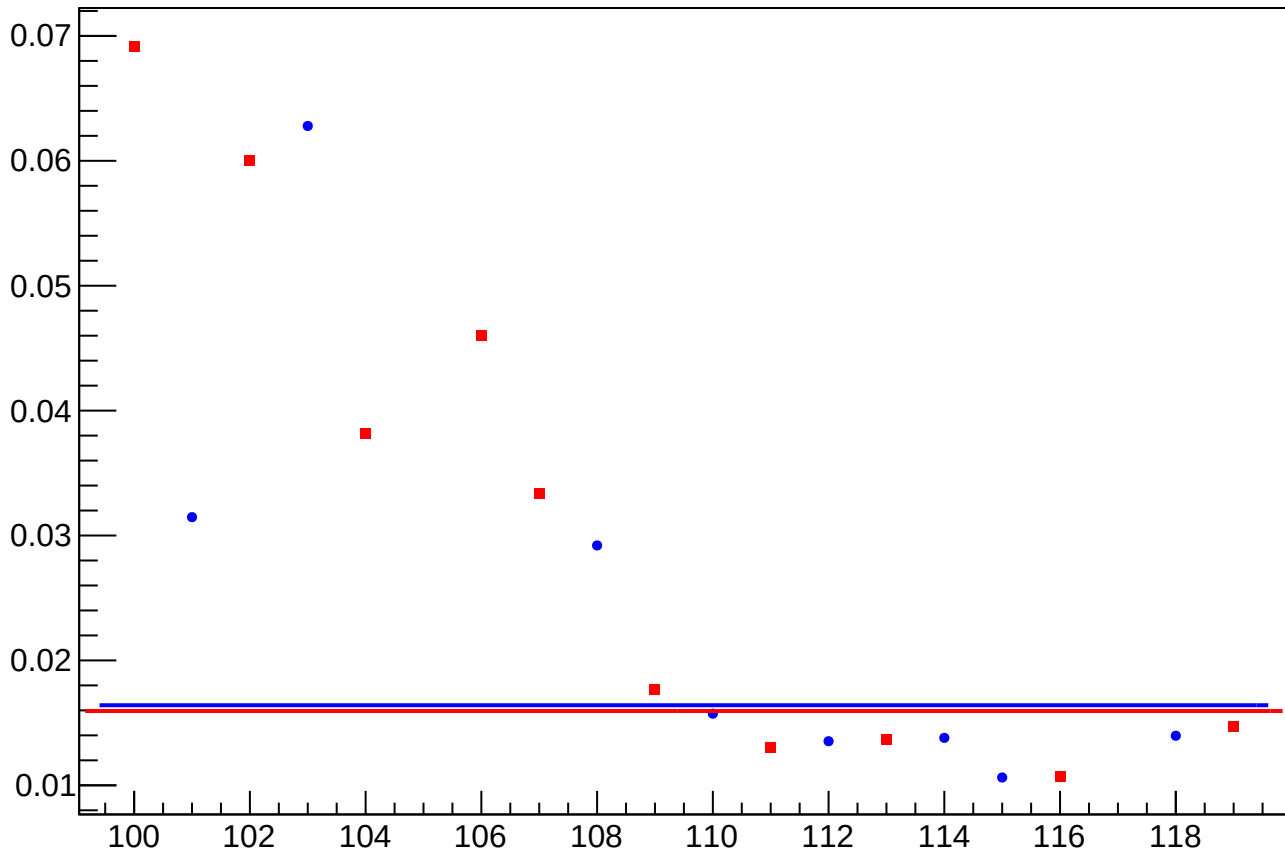
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.295+/-0.000  $\chi^2/\text{NDF}$ : 1257538164.0/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16X\_rms vs Slug



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 1091530.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 1435526.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

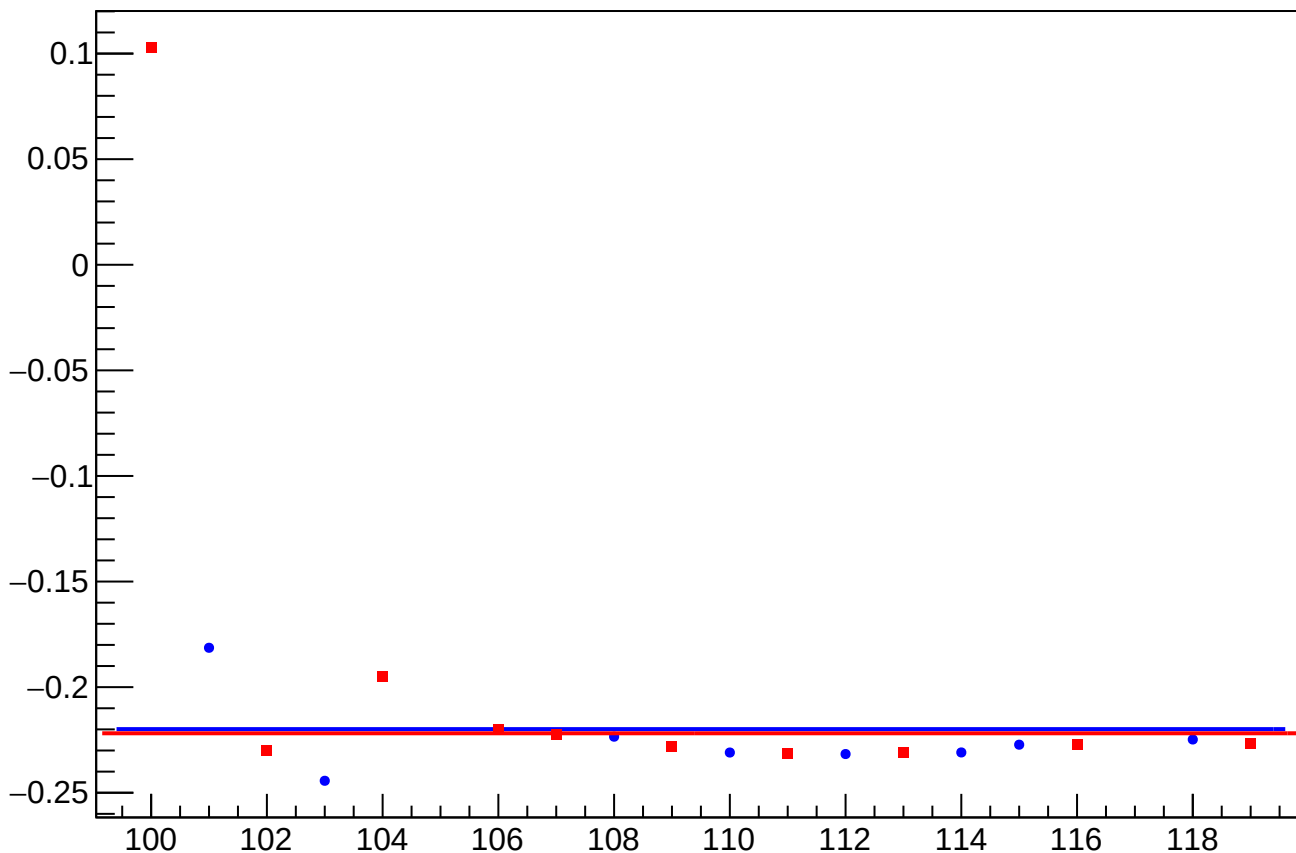
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 2529020.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



yield\_bpm16Y\_mean vs Slug



Right In: -0.220+/-0.000  $\chi^2/\text{NDF}$ : 49461078.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.222+/-0.000  $\chi^2/\text{NDF}$ : 156701411.5/9

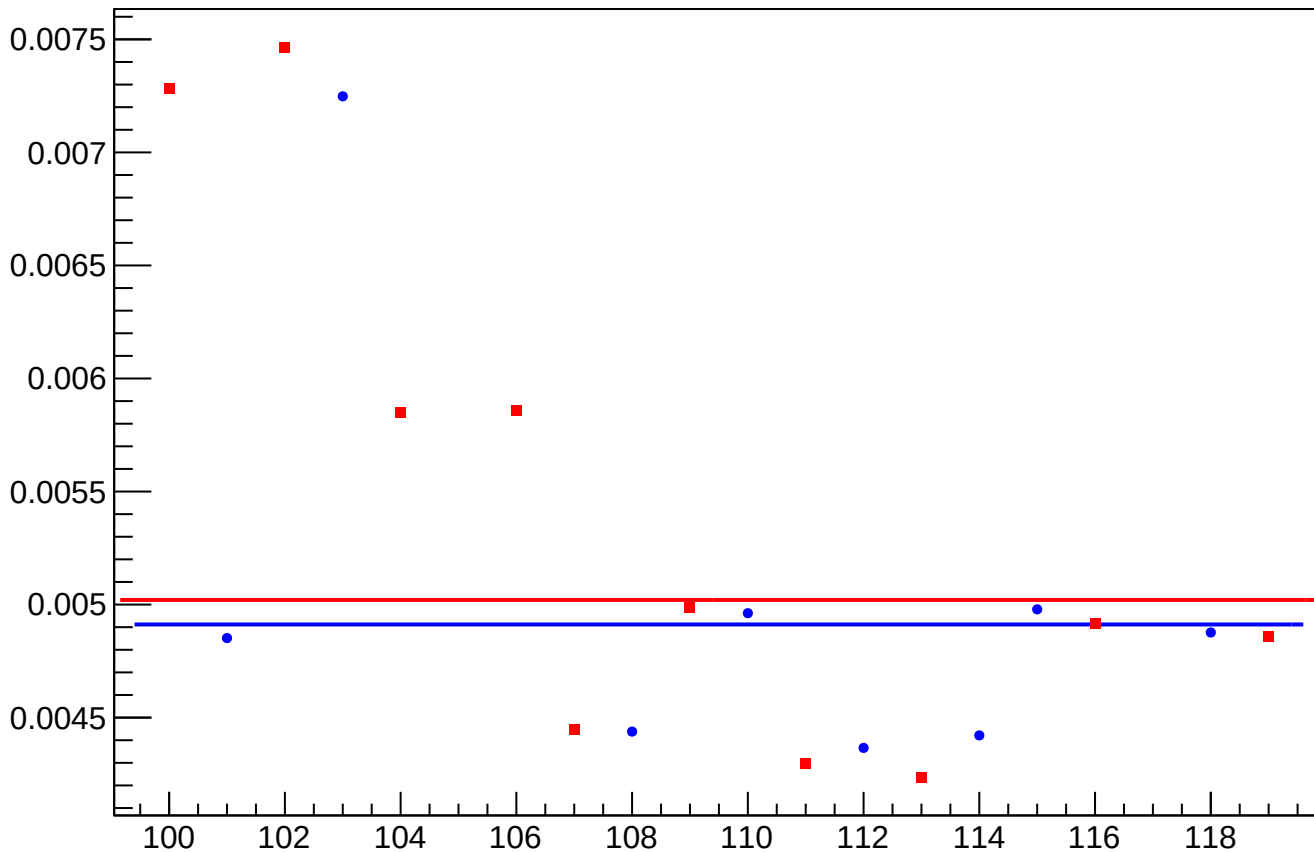
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.221+/-0.000  $\chi^2/\text{NDF}$ : 206419501.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 141407.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 233502.4/9

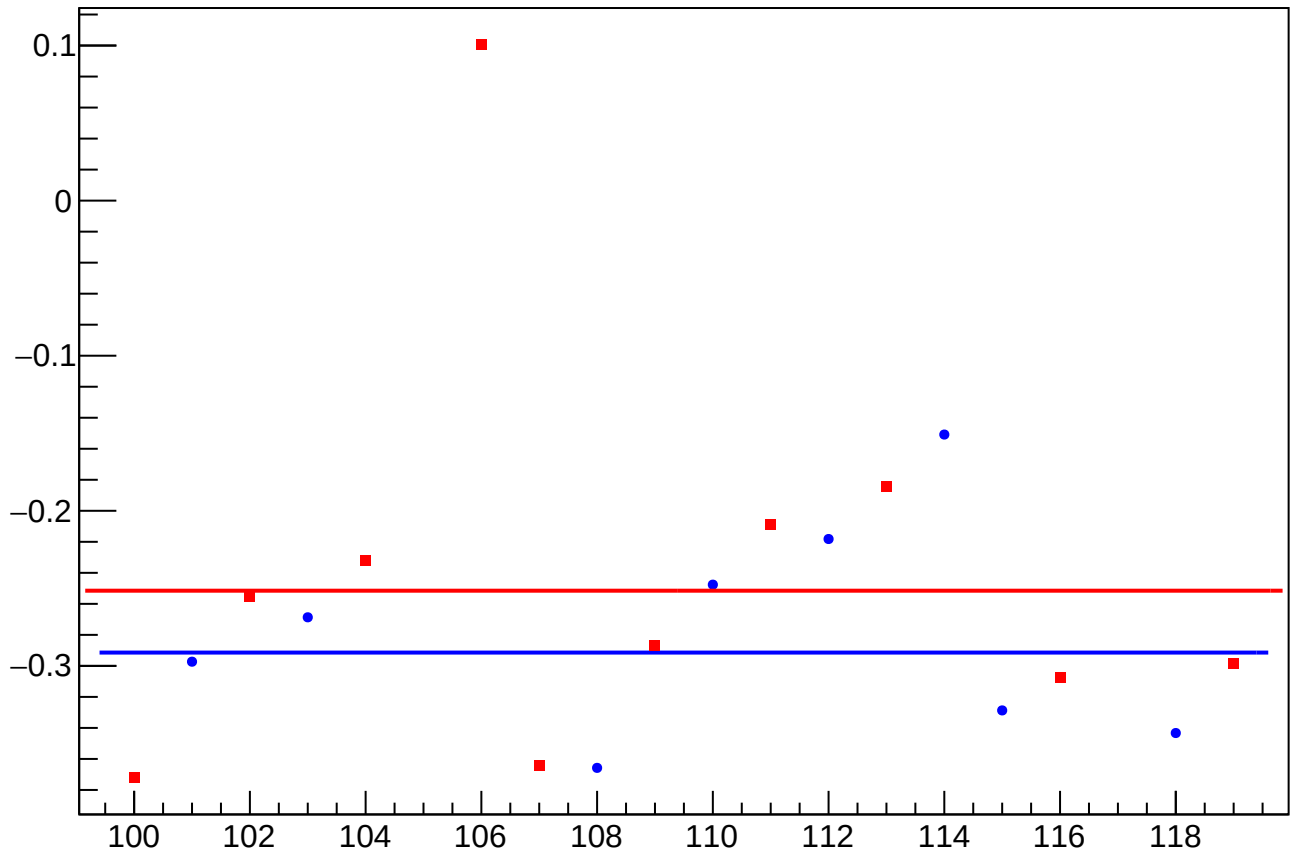
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 376458.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02X\_mean vs Slug



Right In: -0.291+/-0.000  $\chi^2/\text{NDF}$ : 217900529.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.252+/-0.000  $\chi^2/\text{NDF}$ : 618653998.2/9

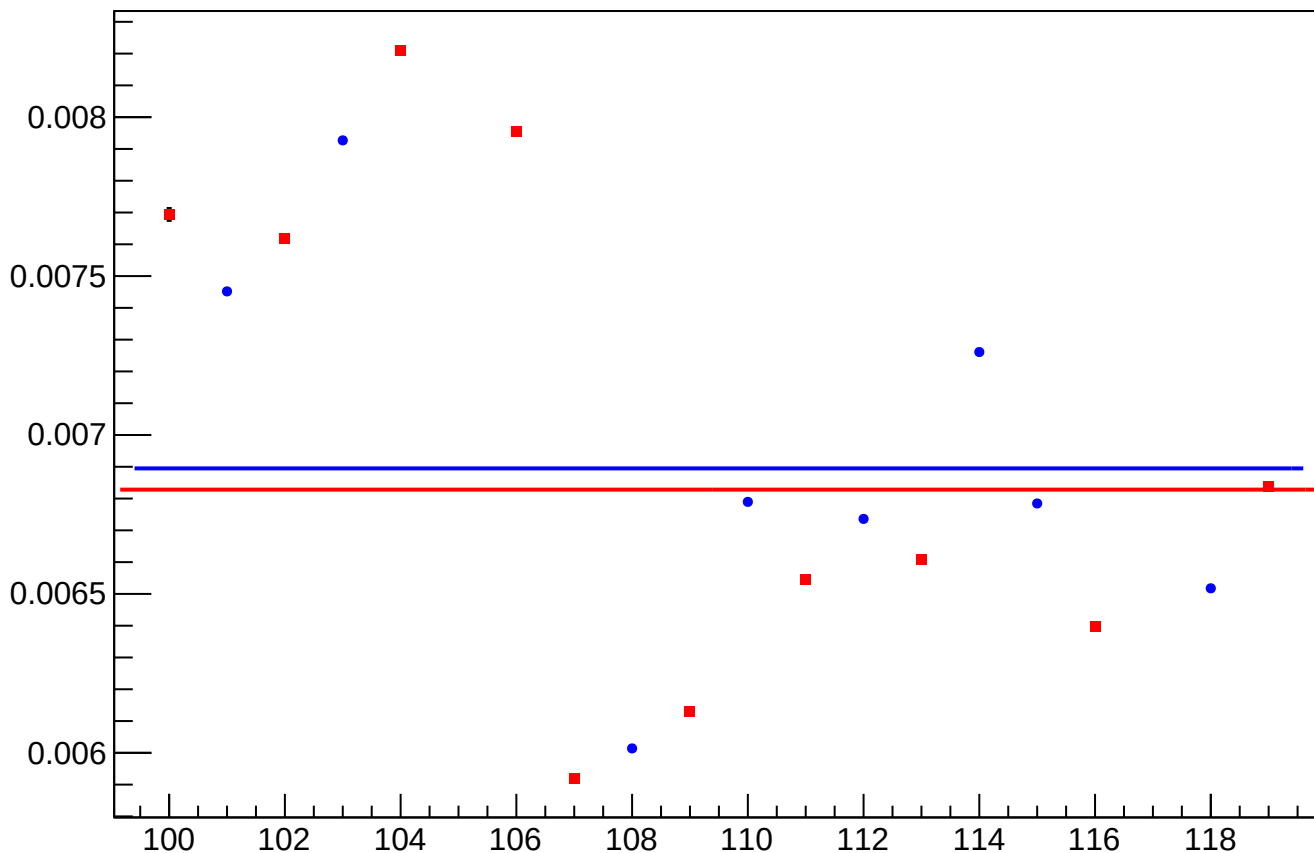
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.269+/-0.000  $\chi^2/\text{NDF}$ : 896350504.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 49180.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 82094.7/9

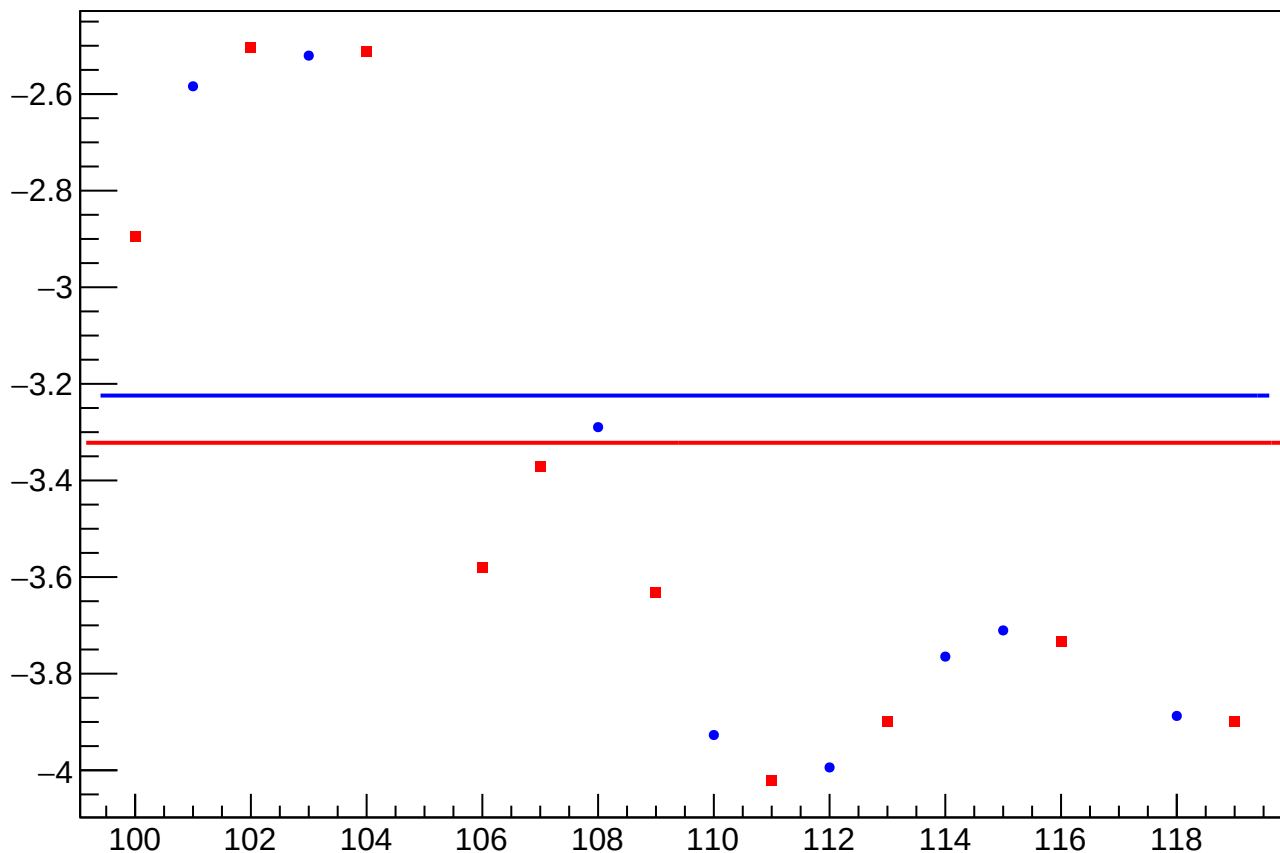
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 131610.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02Y\_mean vs Slug



Right In: -3.224+/-0.000  $\chi^2/\text{NDF}$ : 22112187371.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.322+/-0.000  $\chi^2/\text{NDF}$ : 23942777006.4/9

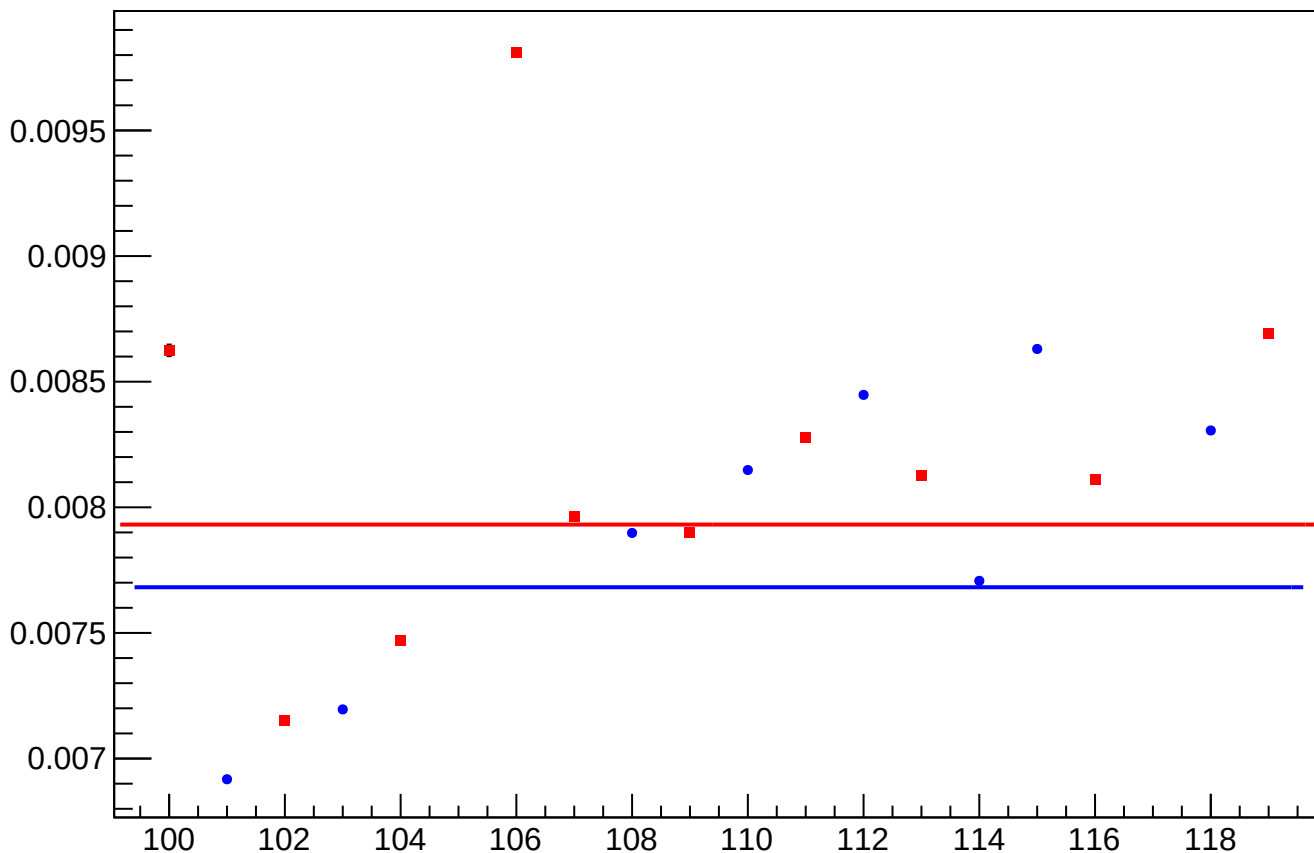
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.276+/-0.000  $\chi^2/\text{NDF}$ : 46329679870.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02Y\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 41053.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 42604.6/9

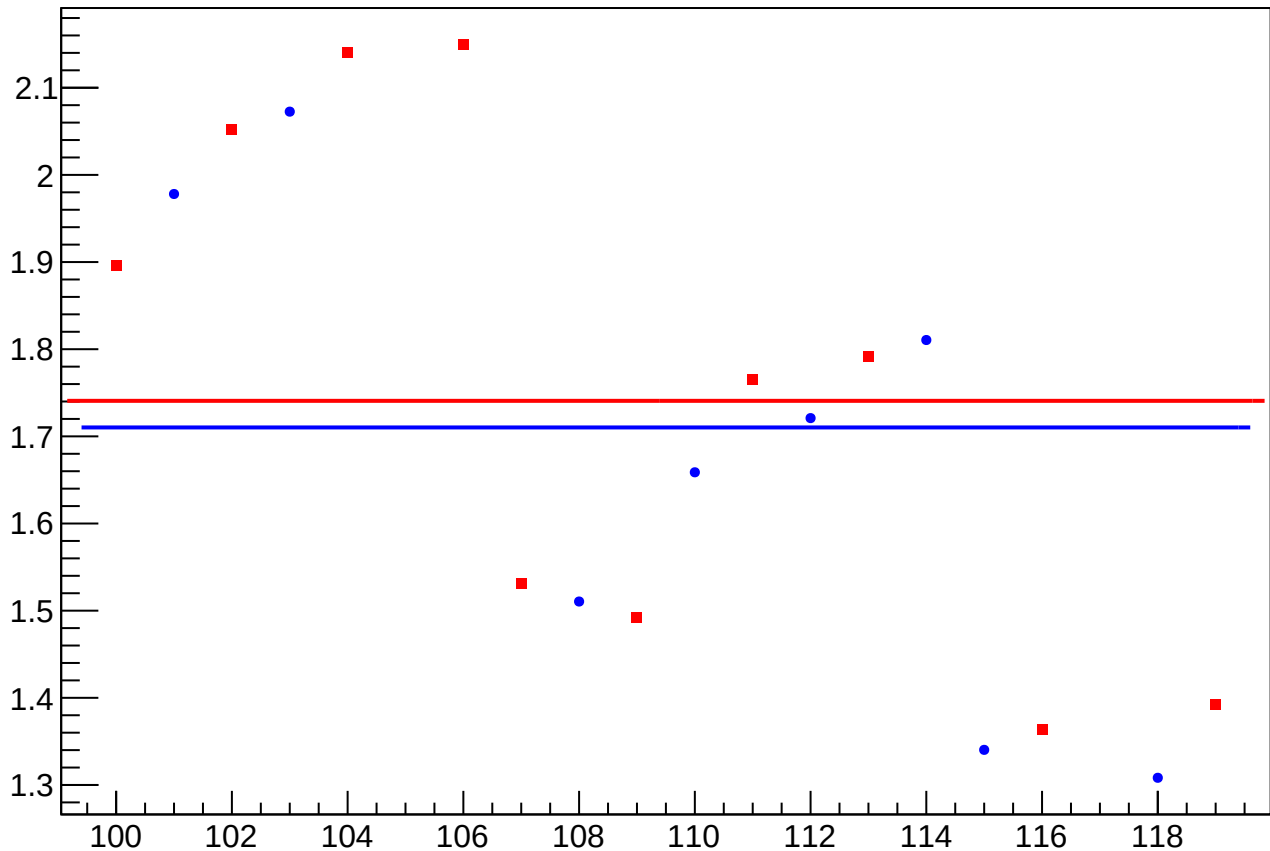
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 87234.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02aX\_mean vs Slug



Right In: 1.710+/-0.000  $\chi^2/\text{NDF}$ : 1483770748.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.741+/-0.000  $\chi^2/\text{NDF}$ : 1902743122.8/9

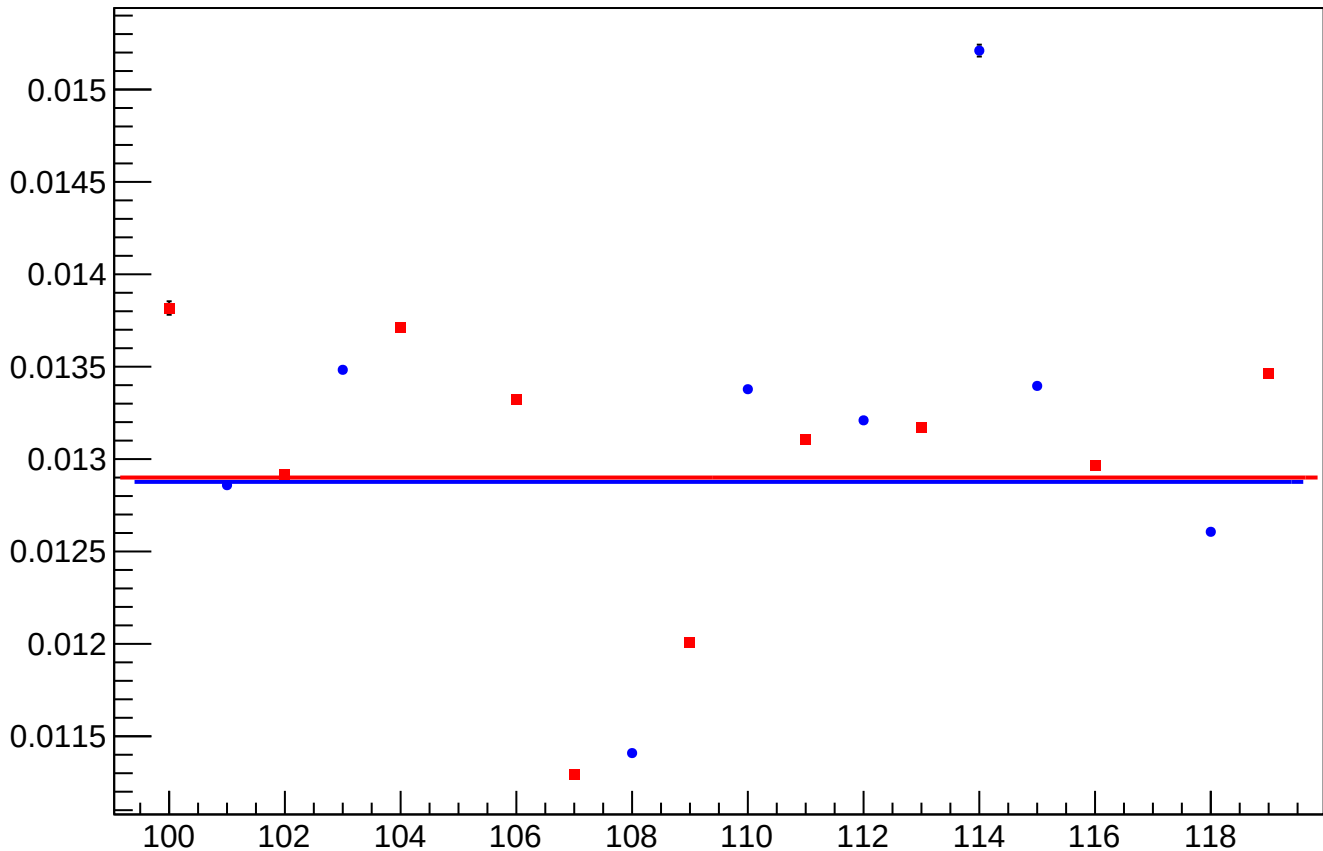
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.727+/-0.000  $\chi^2/\text{NDF}$ : 3396395791.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02aX\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 23210.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 22606.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

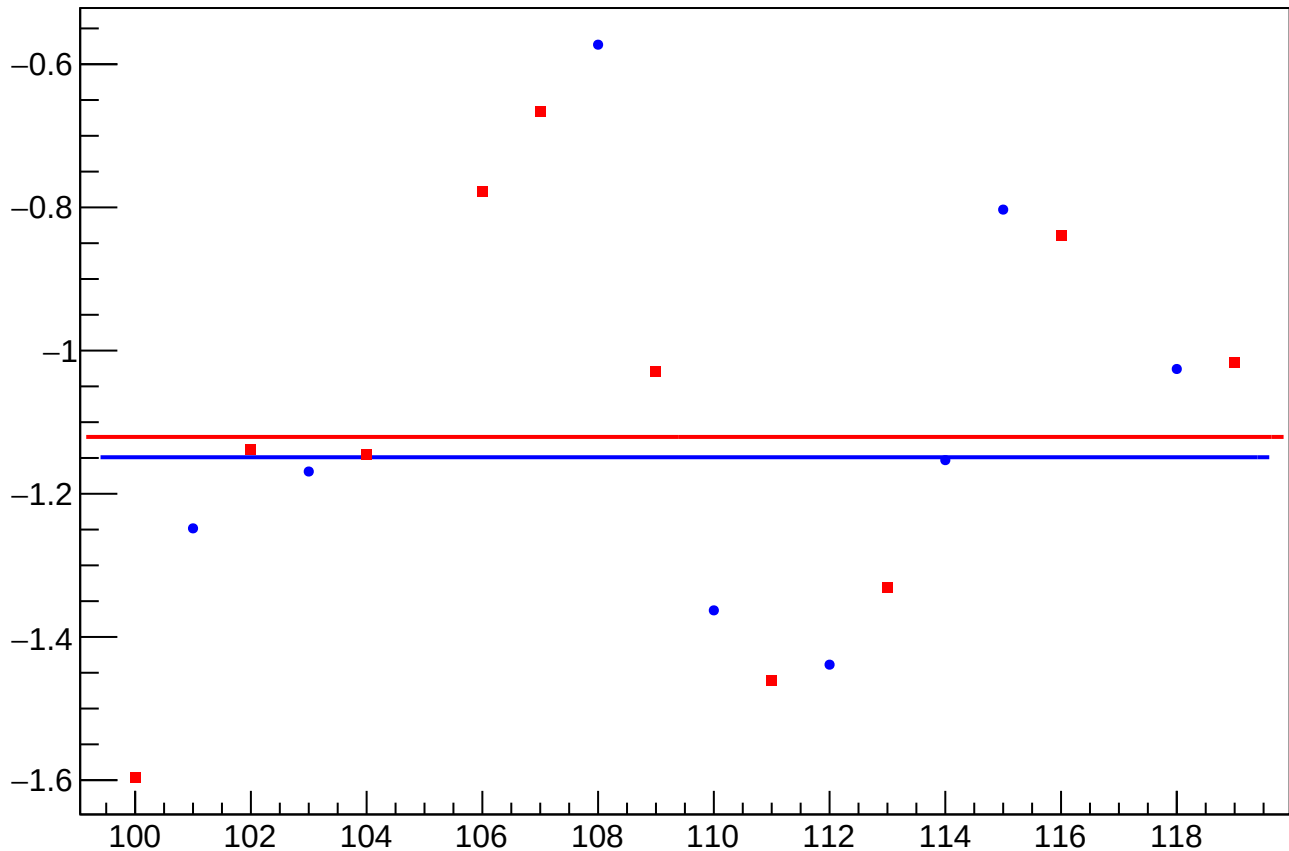
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 45828.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i02aY\_mean vs Slug



Right In: -1.149+/-0.000  $\chi^2/\text{NDF}$ : 2371931206.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.121+/-0.000  $\chi^2/\text{NDF}$ : 1902968312.6/9

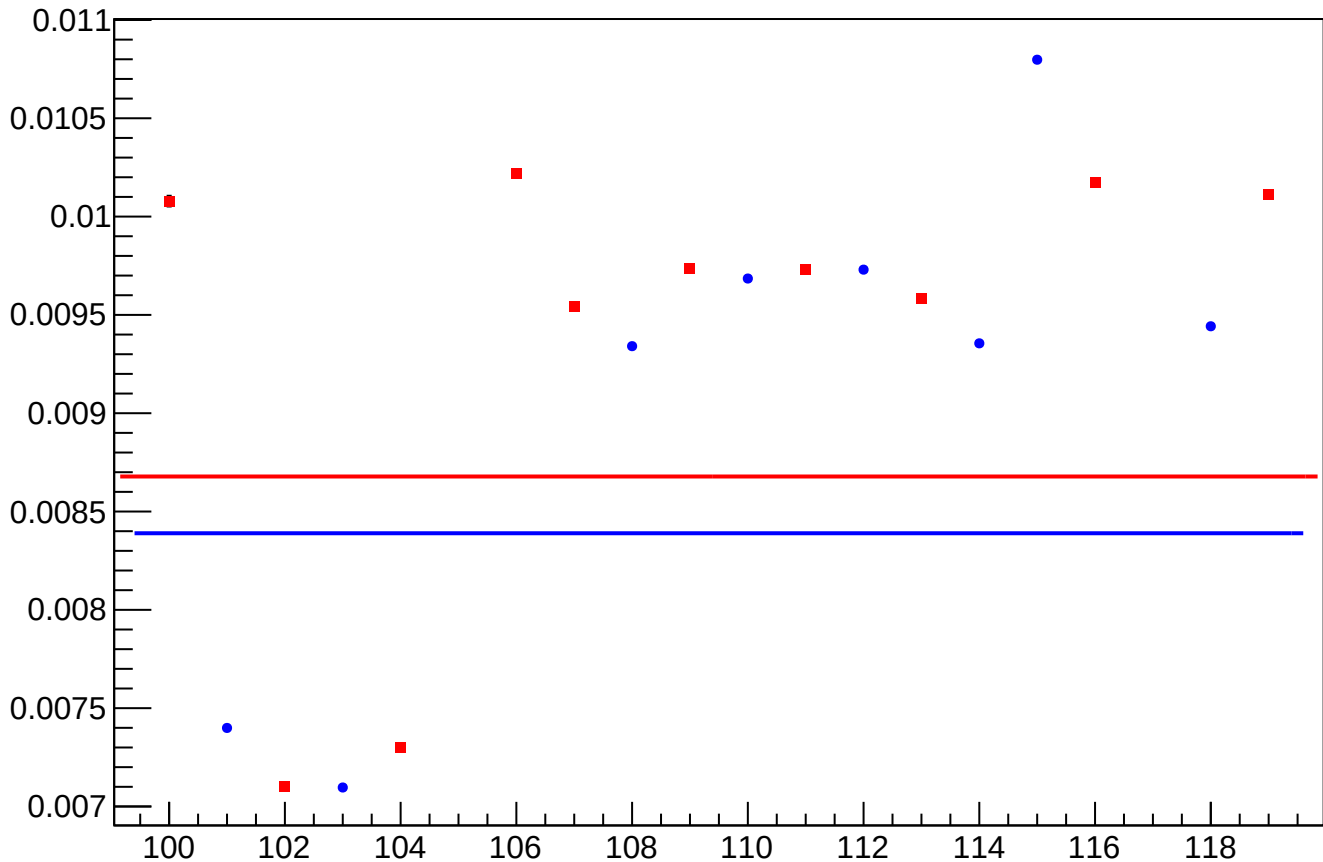
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.134+/-0.000  $\chi^2/\text{NDF}$ : 4293644898.9/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02aY\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 128058.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 173305.1/9

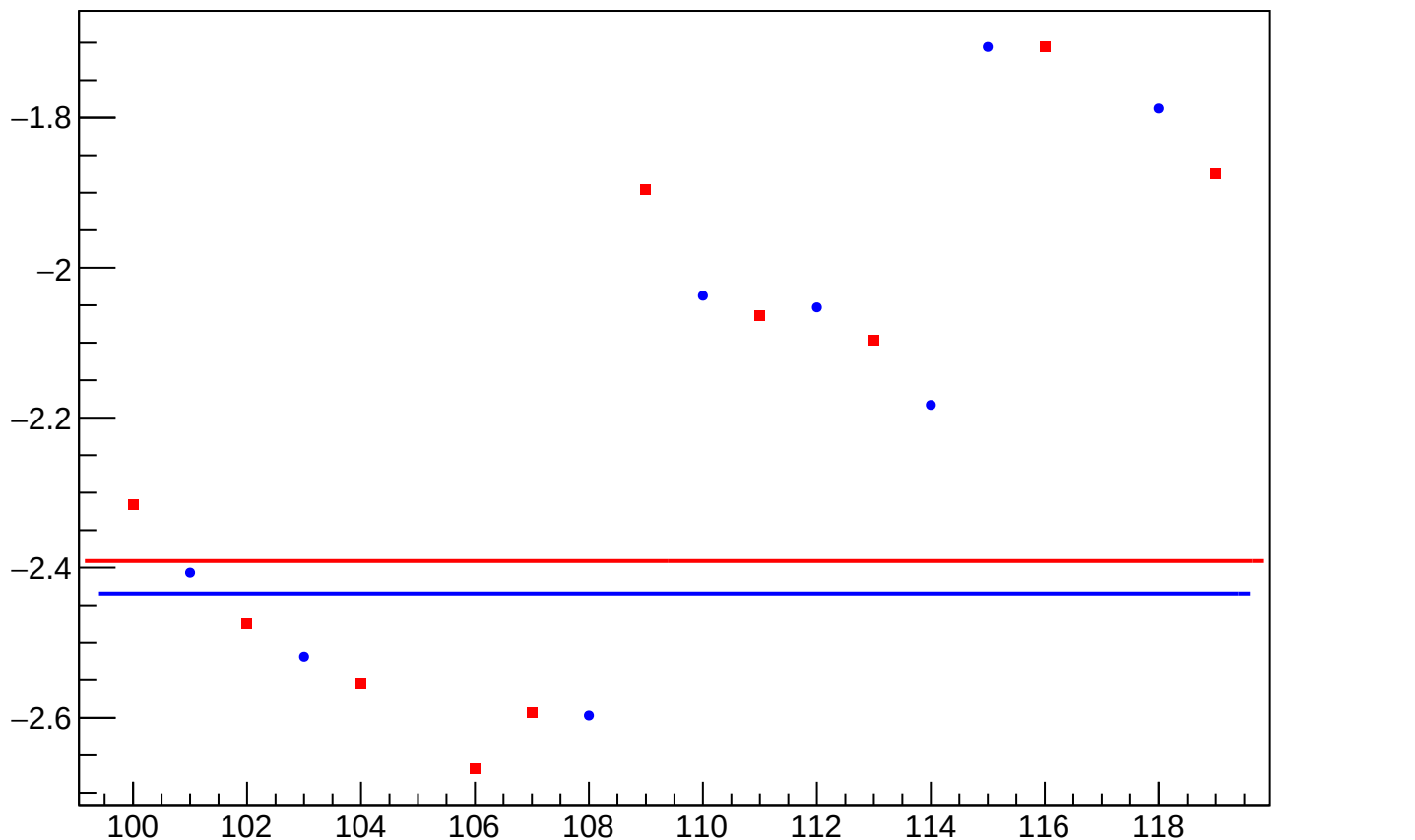
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 305242.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05X\_mean vs Slug



Right In: -2.434+/-0.000  $\chi^2/\text{NDF}$ : 1527582584.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.391+/-0.000  $\chi^2/\text{NDF}$ : 4080445869.1/9

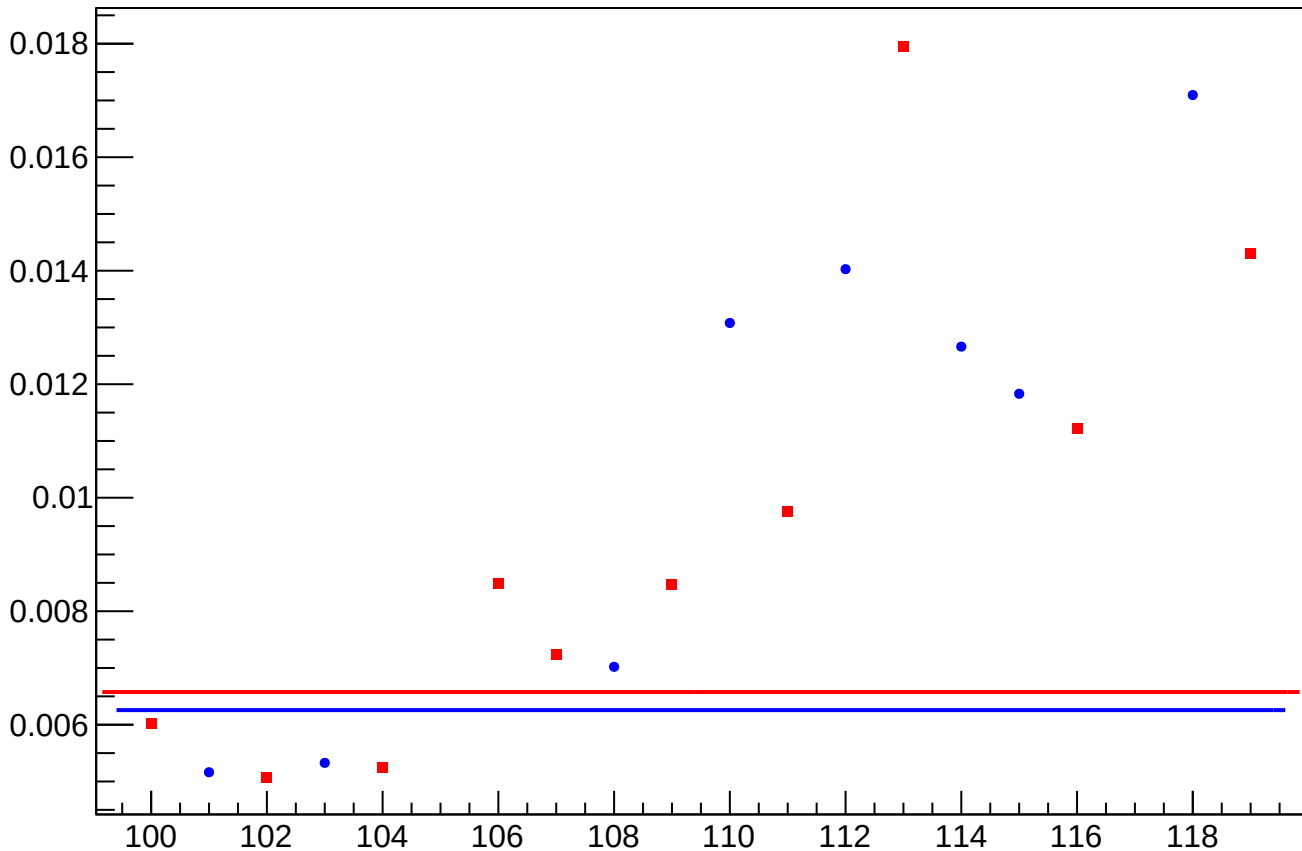
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.411+/-0.000  $\chi^2/\text{NDF}$ : 5665178048.2/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05X\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 737491.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 825687.5/9

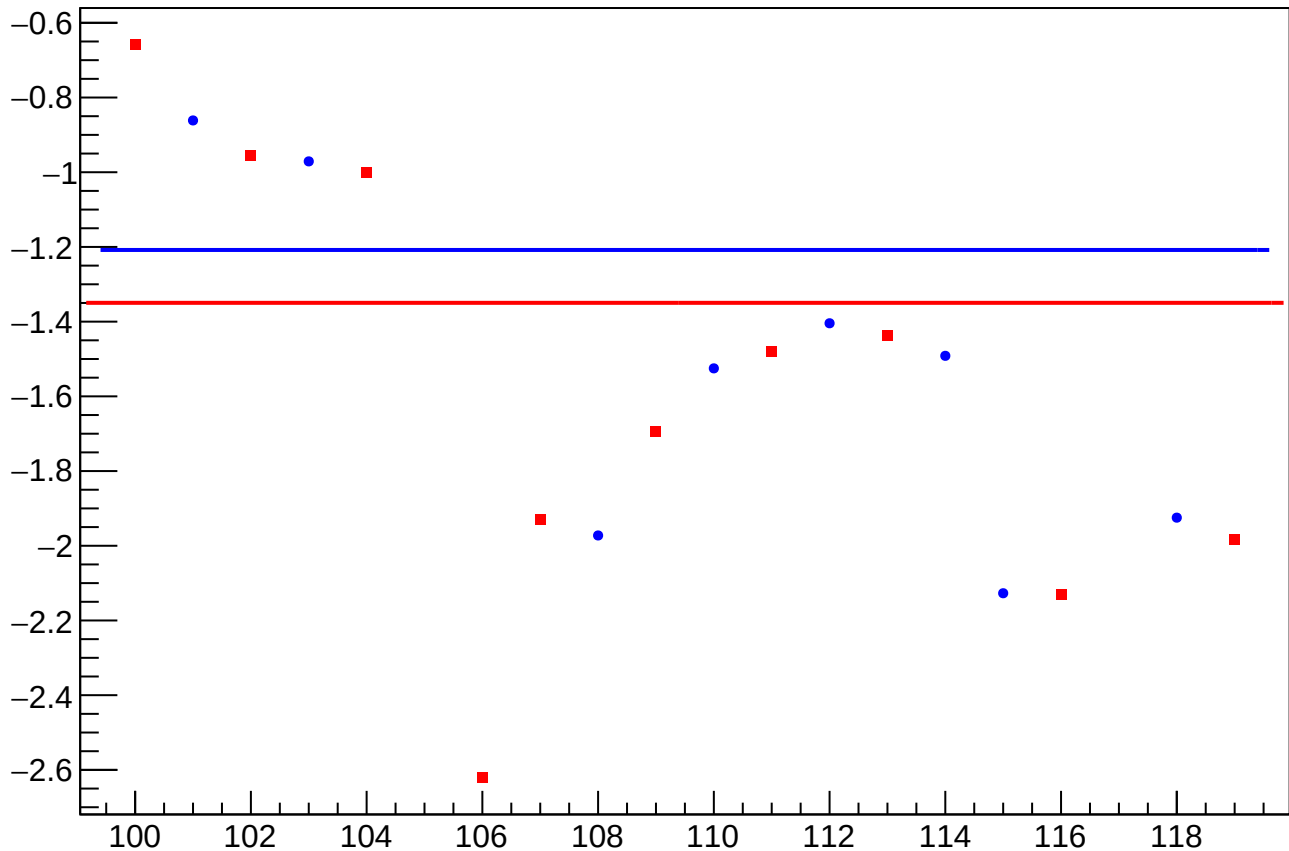
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1569370.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05Y\_mean vs Slug



Right In: -1.208+/-0.000  $\chi^2/\text{NDF}$ : 12252227861.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.350+/-0.000  $\chi^2/\text{NDF}$ : 20624696602.3/9

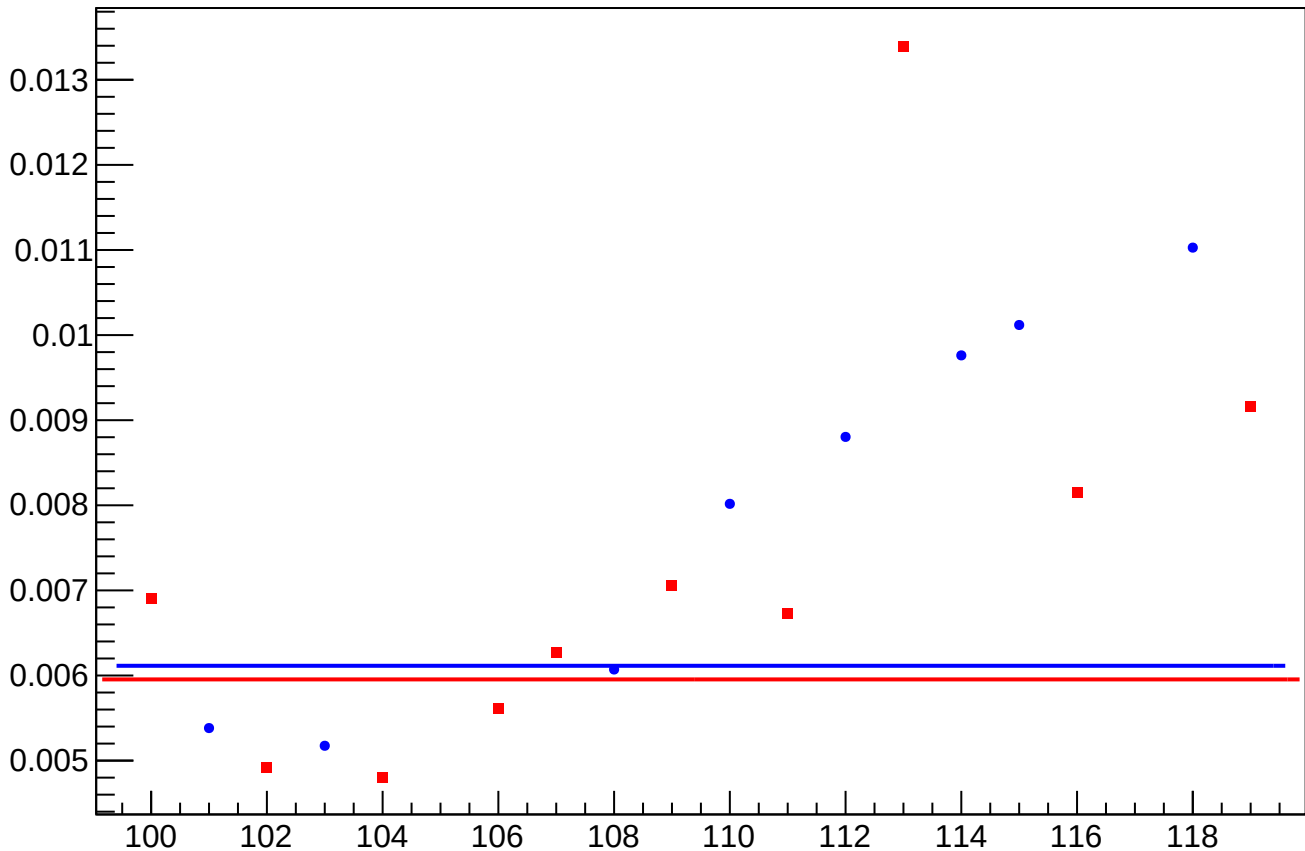
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.288+/-0.000  $\chi^2/\text{NDF}$ : 33617801883.4/16

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05Y\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 309318.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 426189.1/9

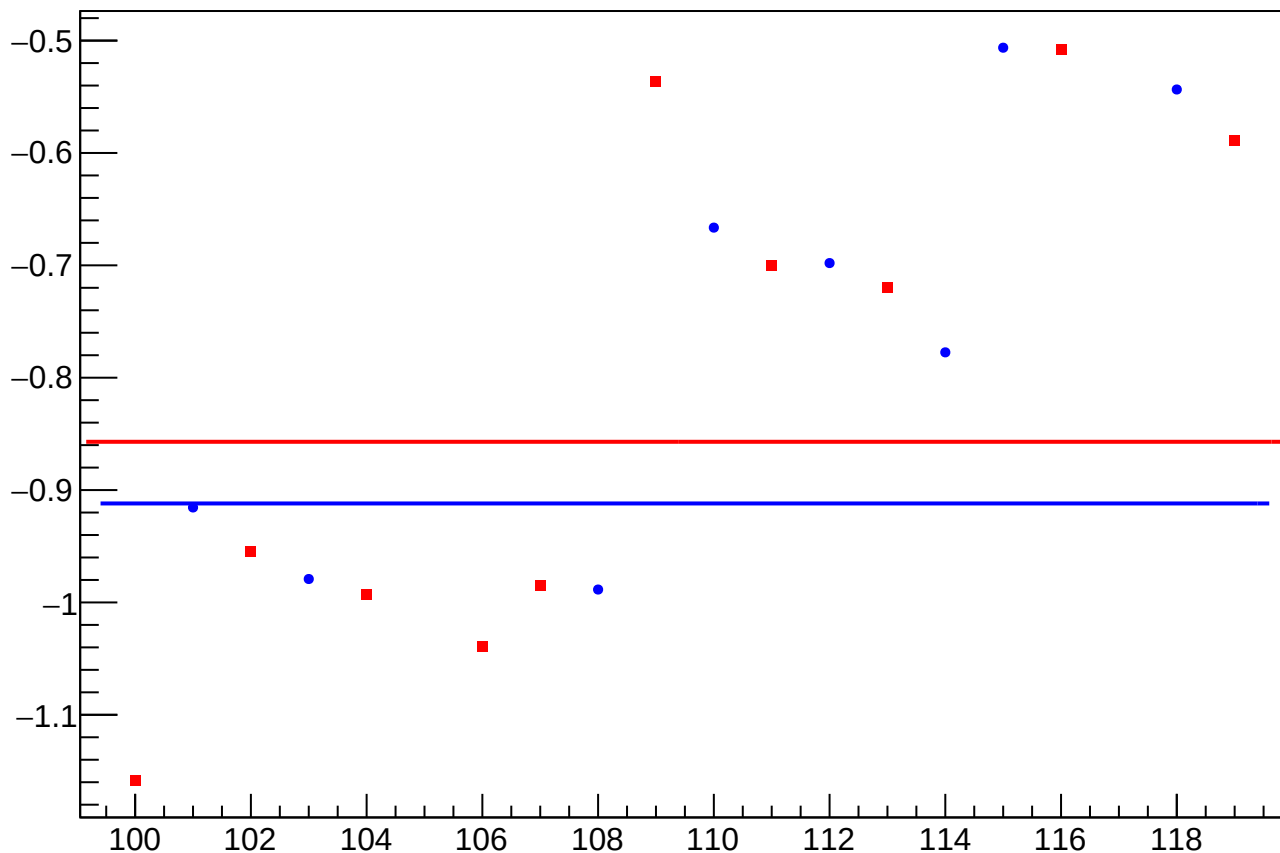
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 737403.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i07X\_mean vs Slug



Right In: -0.912+/-0.000  $\chi^2/\text{NDF}$ : 1255884328.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.857+/-0.000  $\chi^2/\text{NDF}$ : 4166094600.5/9

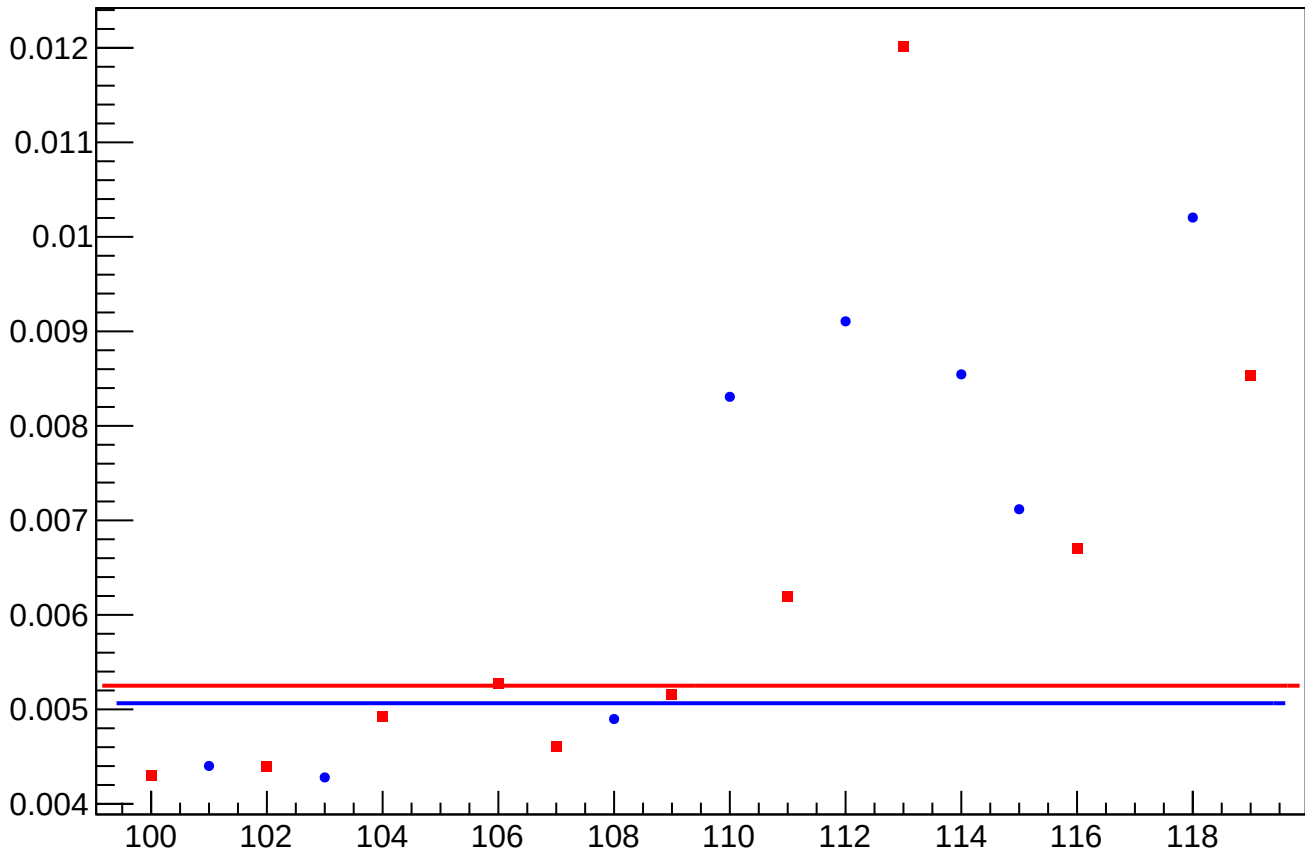
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.882+/-0.000  $\chi^2/\text{NDF}$ : 5574686857.3/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i07X\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 462295.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 404468.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

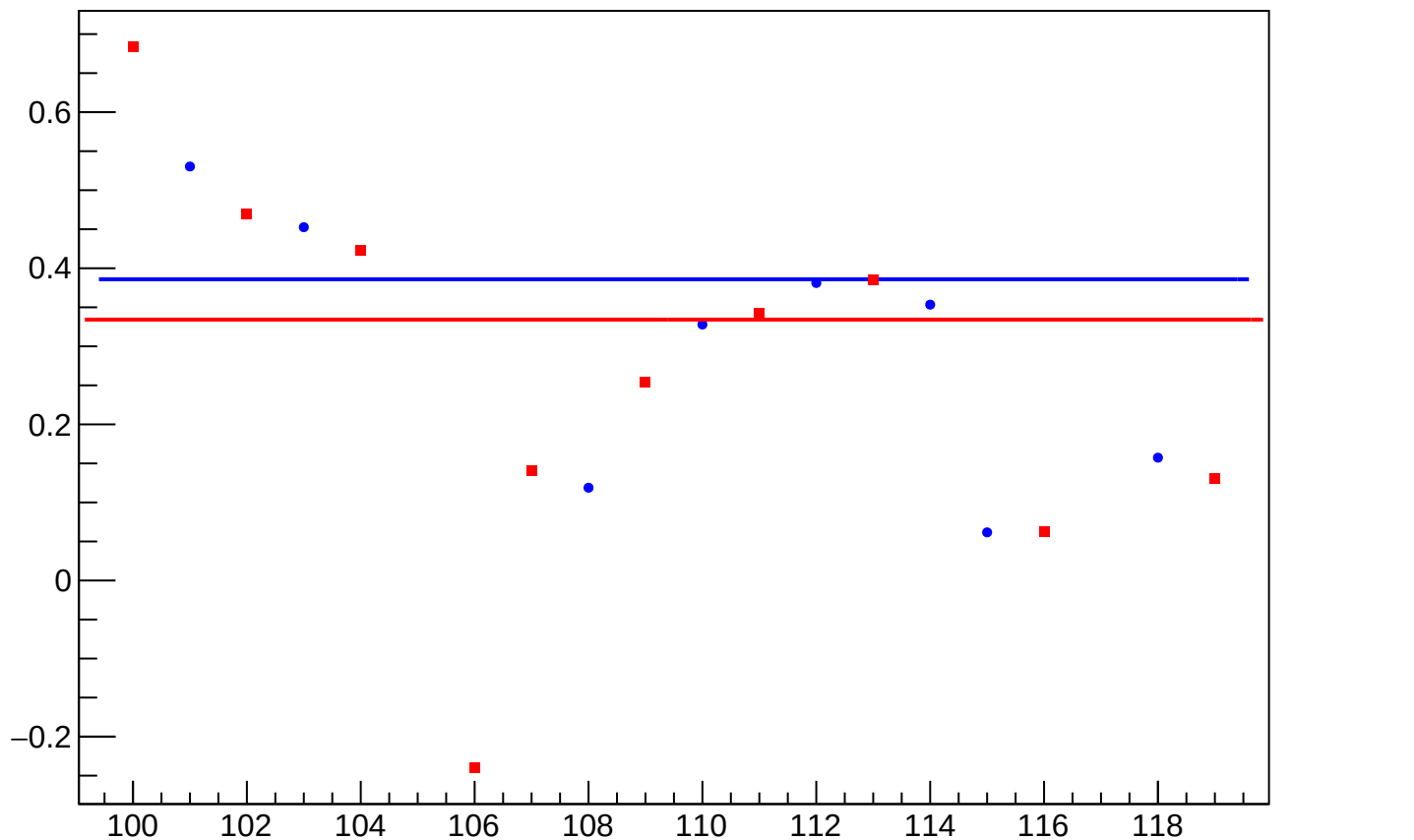
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 870253.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i07Y\_mean vs Slug



Right In: 0.386 $\pm$ 0.000  $\chi^2$ /NDF: 3626379880.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.334 $\pm$ 0.000  $\chi^2$ /NDF: 5869432669.4/9

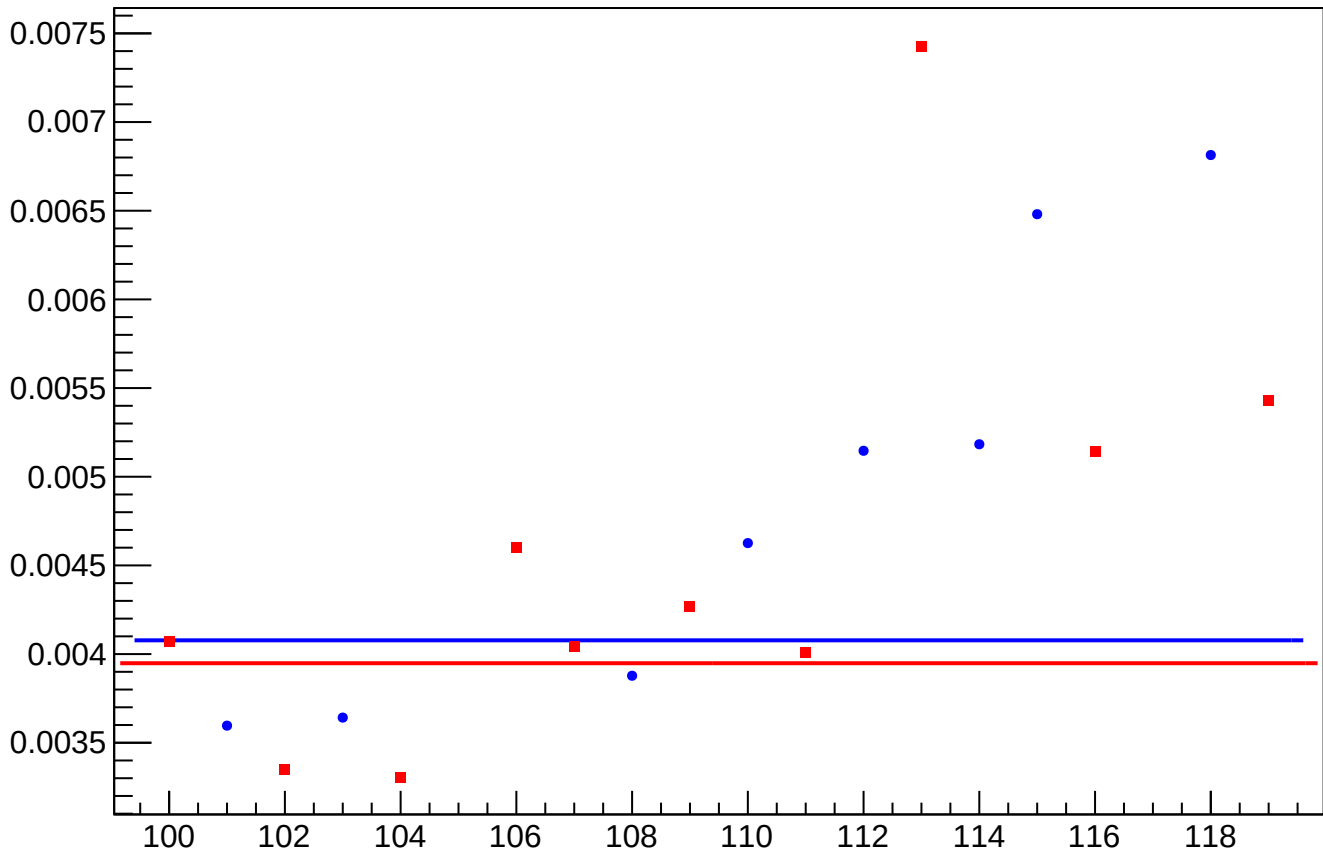
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.357 $\pm$ 0.000  $\chi^2$ /NDF: 9731088264.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i07Y\_rms vs Slug



Right In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 207674.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 288338.9/9

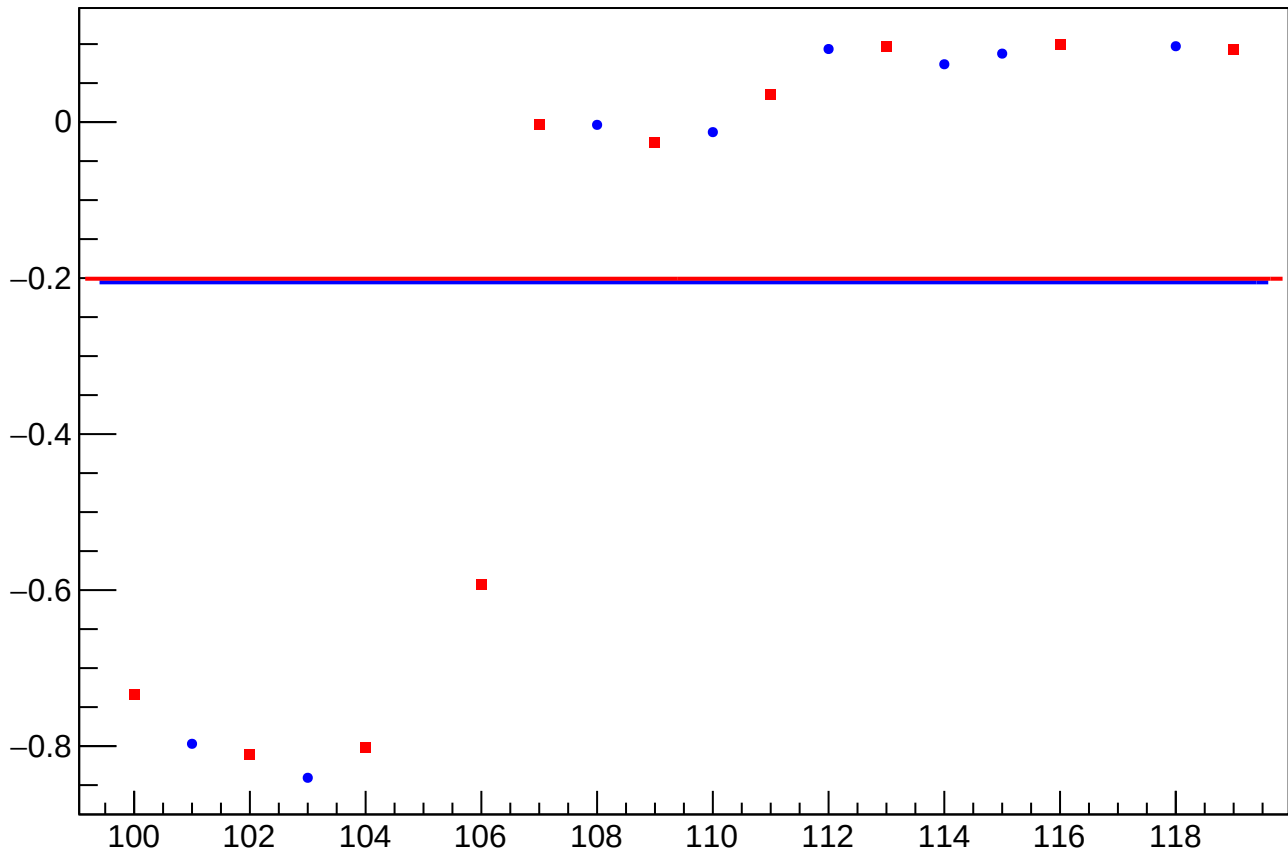
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 498946.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i02X\_mean vs Slug



Right In: -0.205+/-0.000  $\chi^2/\text{NDF}$ : 4635519190.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.201+/-0.000  $\chi^2/\text{NDF}$ : 5285974161.0/9

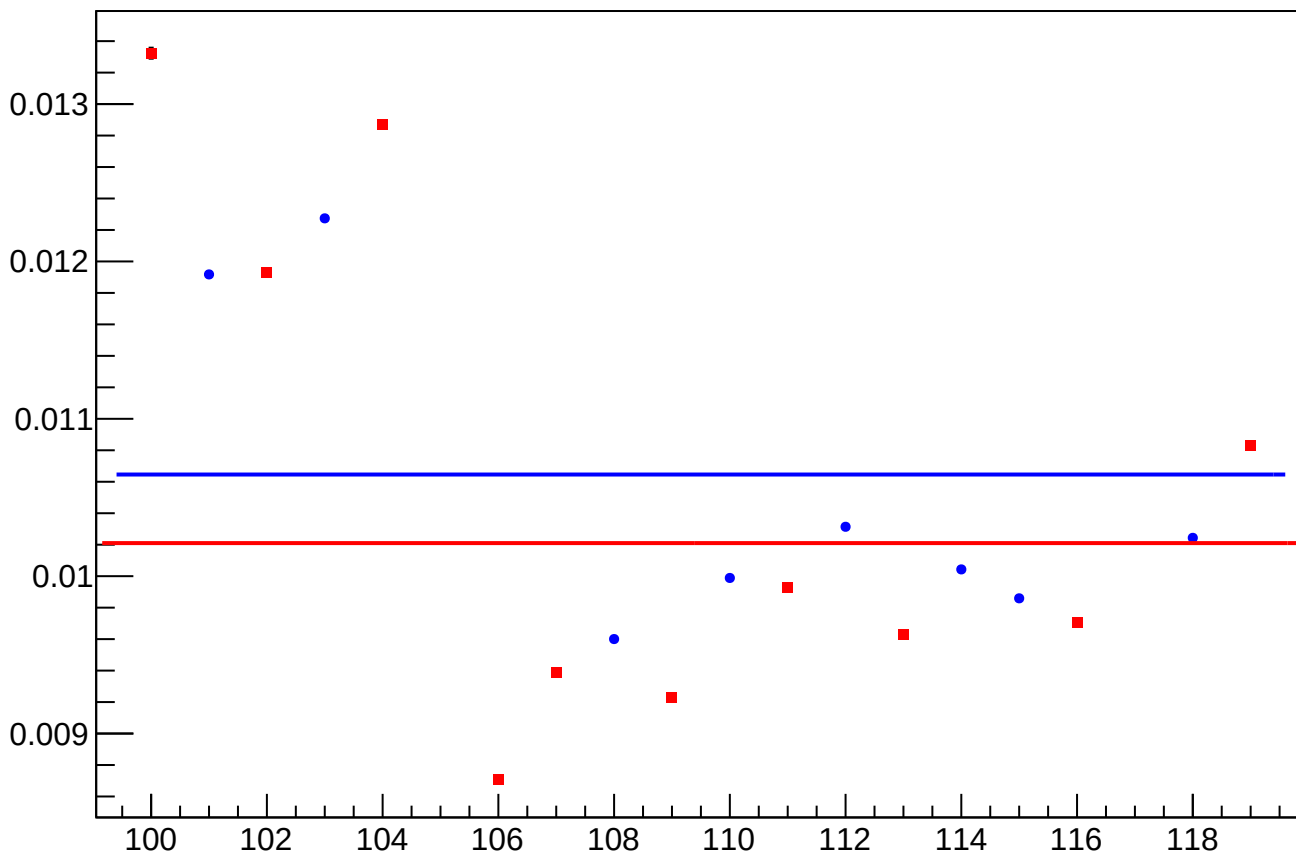
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.203+/-0.000  $\chi^2/\text{NDF}$ : 9921848770.8/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 53959.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 123452.9/9

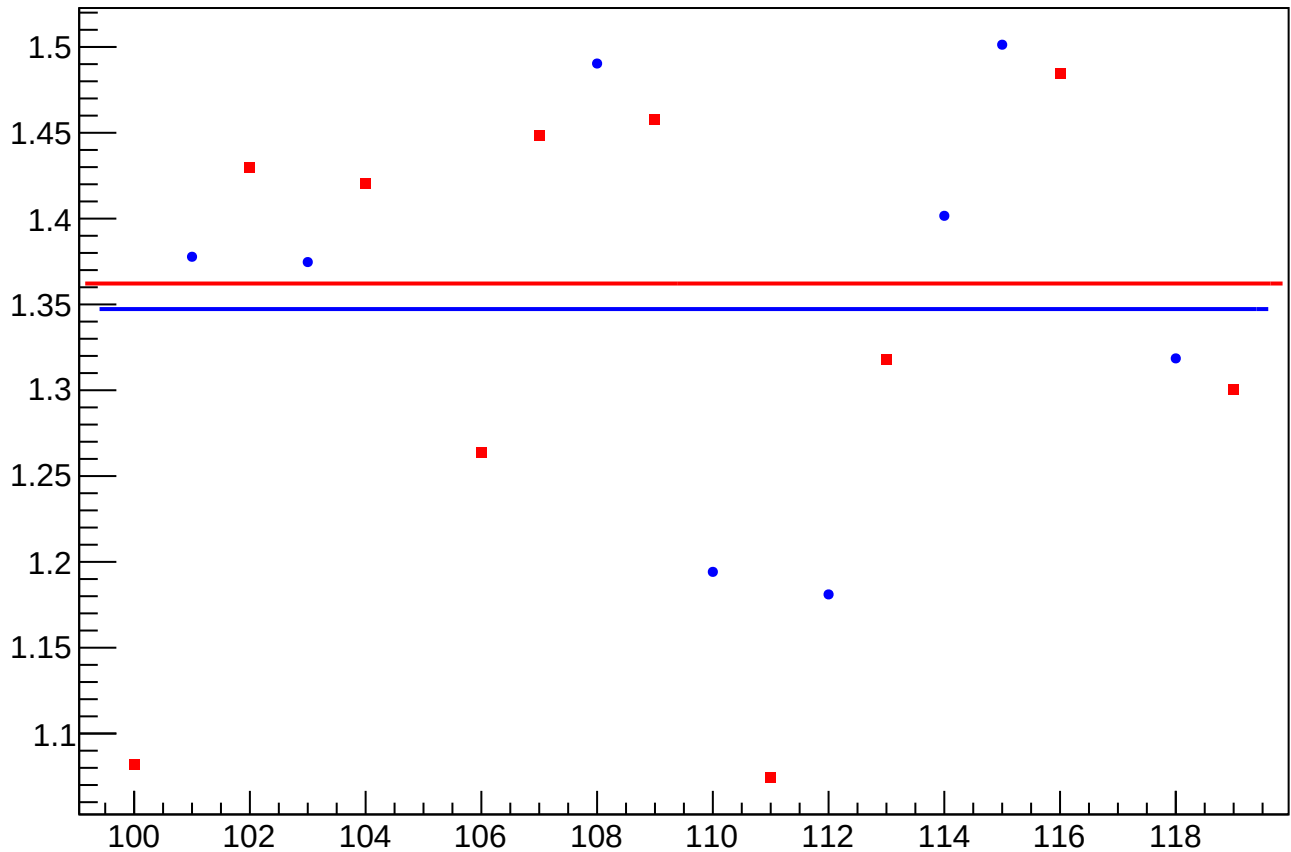
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 183713.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02Y\_mean vs Slug



Right In: 1.347+/-0.000  $\chi^2/\text{NDF}$ : 619332446.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.362+/-0.000  $\chi^2/\text{NDF}$ : 1122927845.4/9

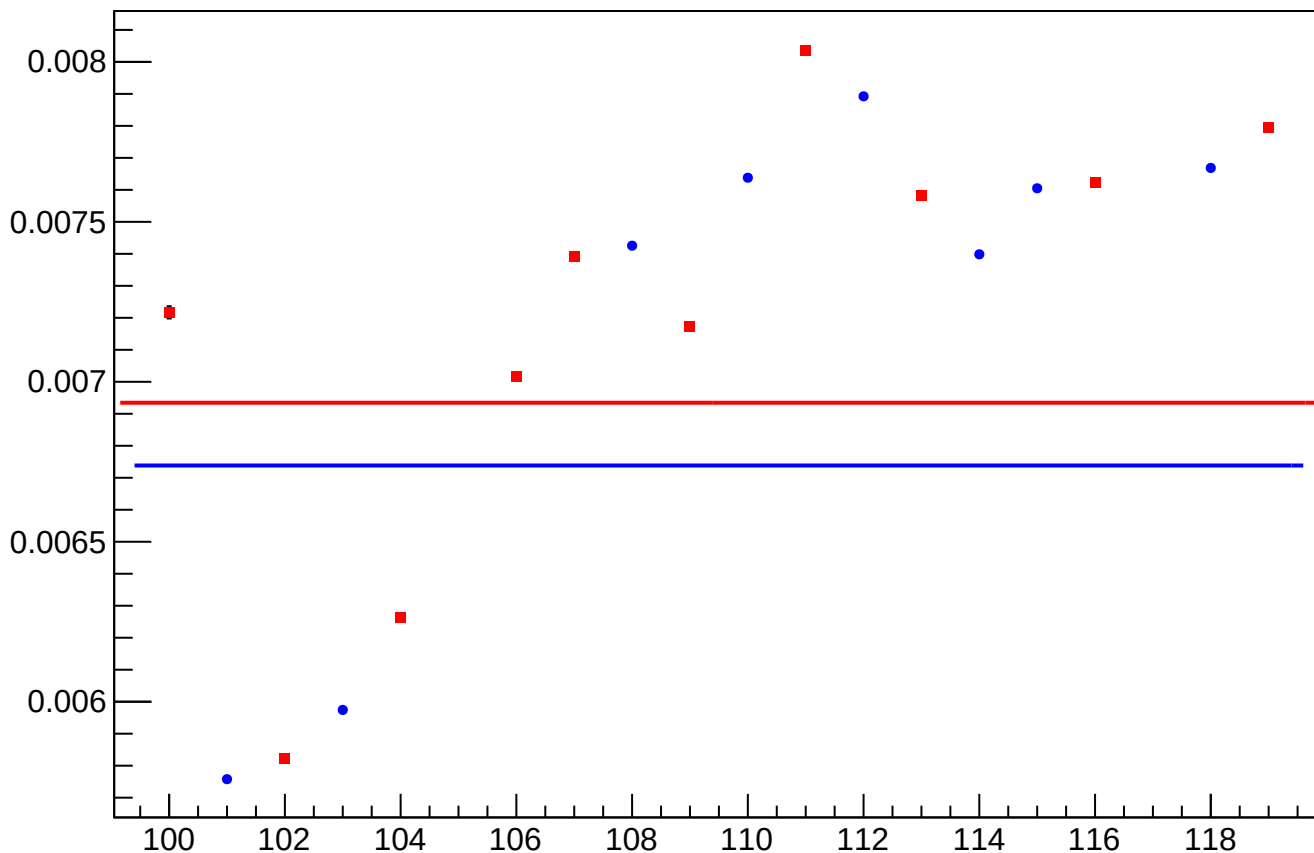
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.355+/-0.000  $\chi^2/\text{NDF}$ : 1750829133.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02Y\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 116713.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 104243.6/9

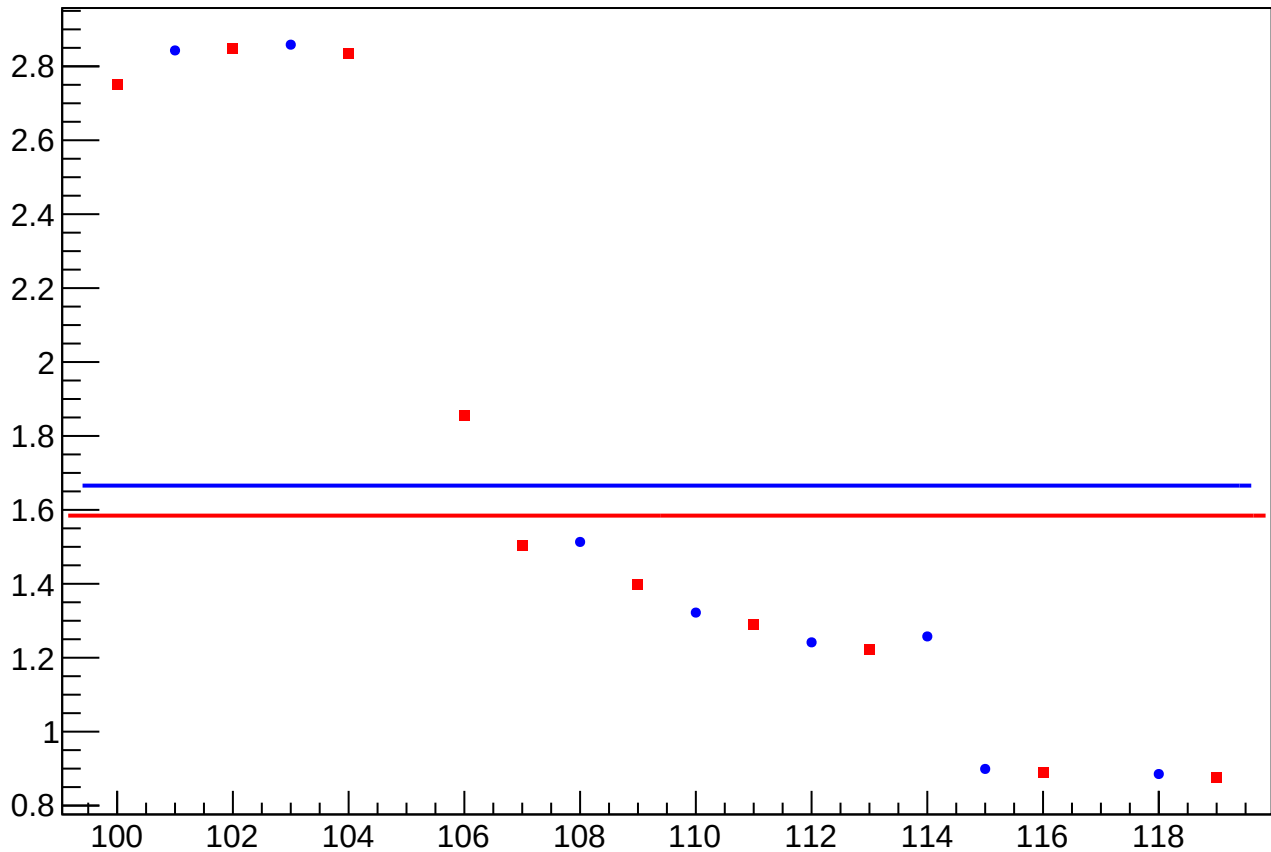
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 223933.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04X\_mean vs Slug



Right In: 1.666+/-0.000  $\chi^2/\text{NDF}$ : 40279993805.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.584+/-0.000  $\chi^2/\text{NDF}$ : 40678565129.1/9

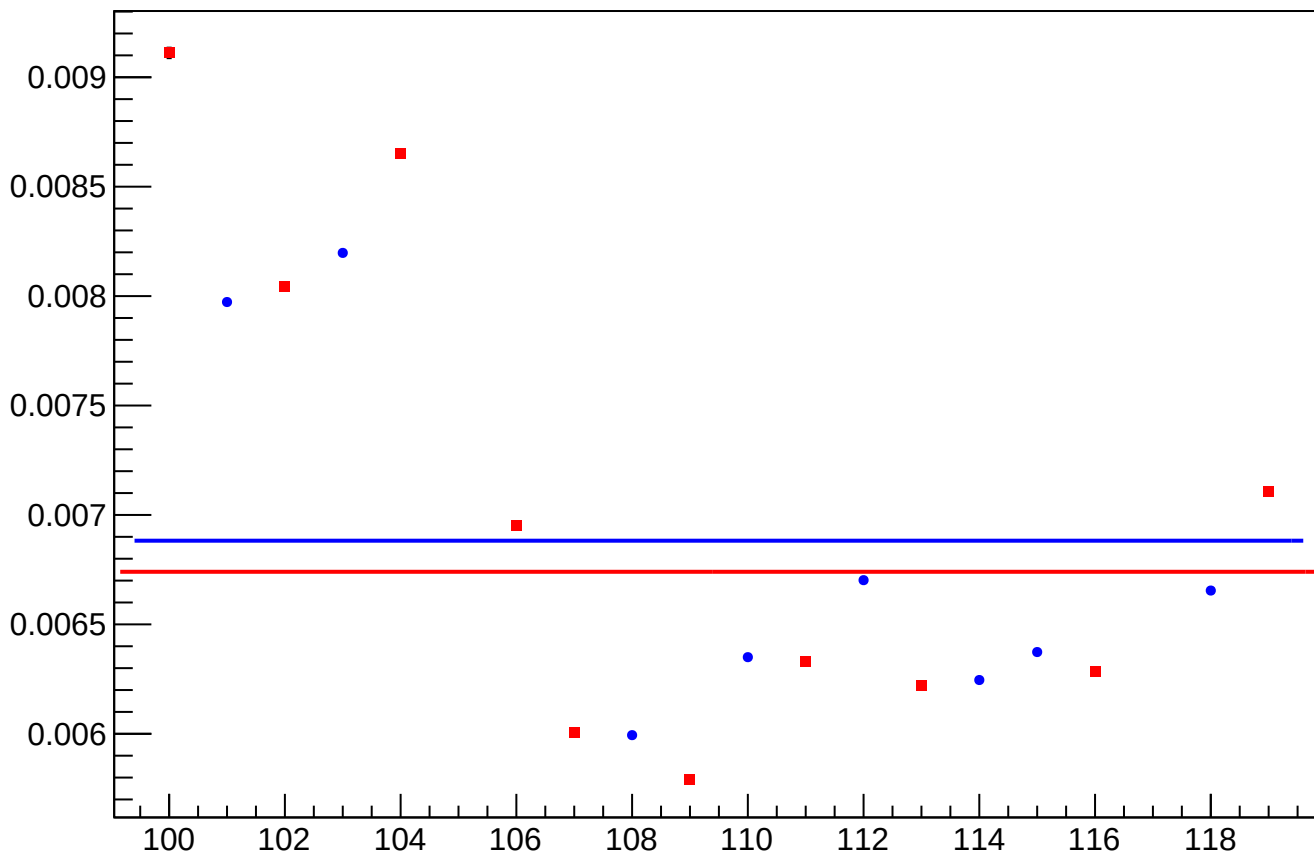
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.620+/-0.000  $\chi^2/\text{NDF}$ : 81214042970.4/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 84167.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 147152.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

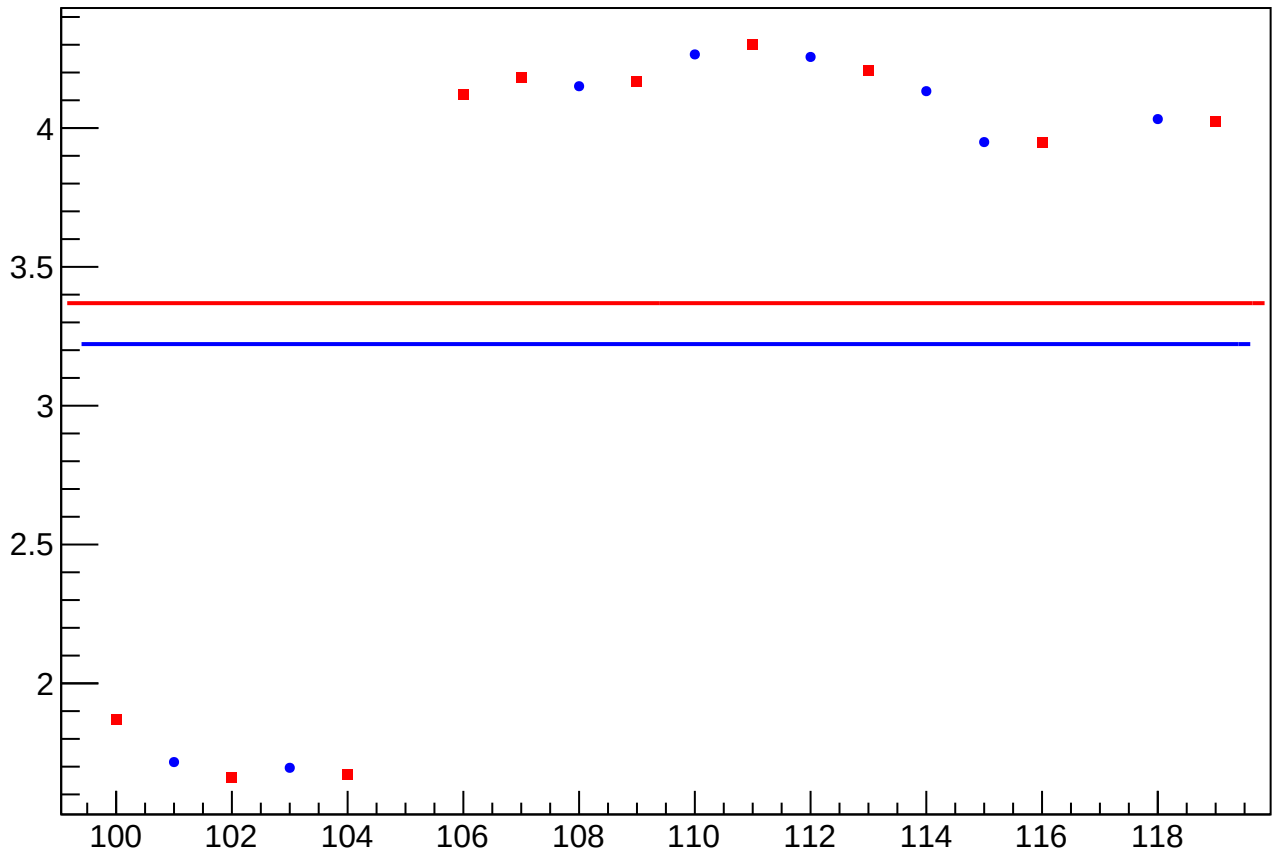
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 232885.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm1i04Y\_mean vs Slug



Right In: 3.222+/-0.000  $\chi^2/\text{NDF}$ : 168125415689.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.369+/-0.000  $\chi^2/\text{NDF}$ : 188086263416.9/9

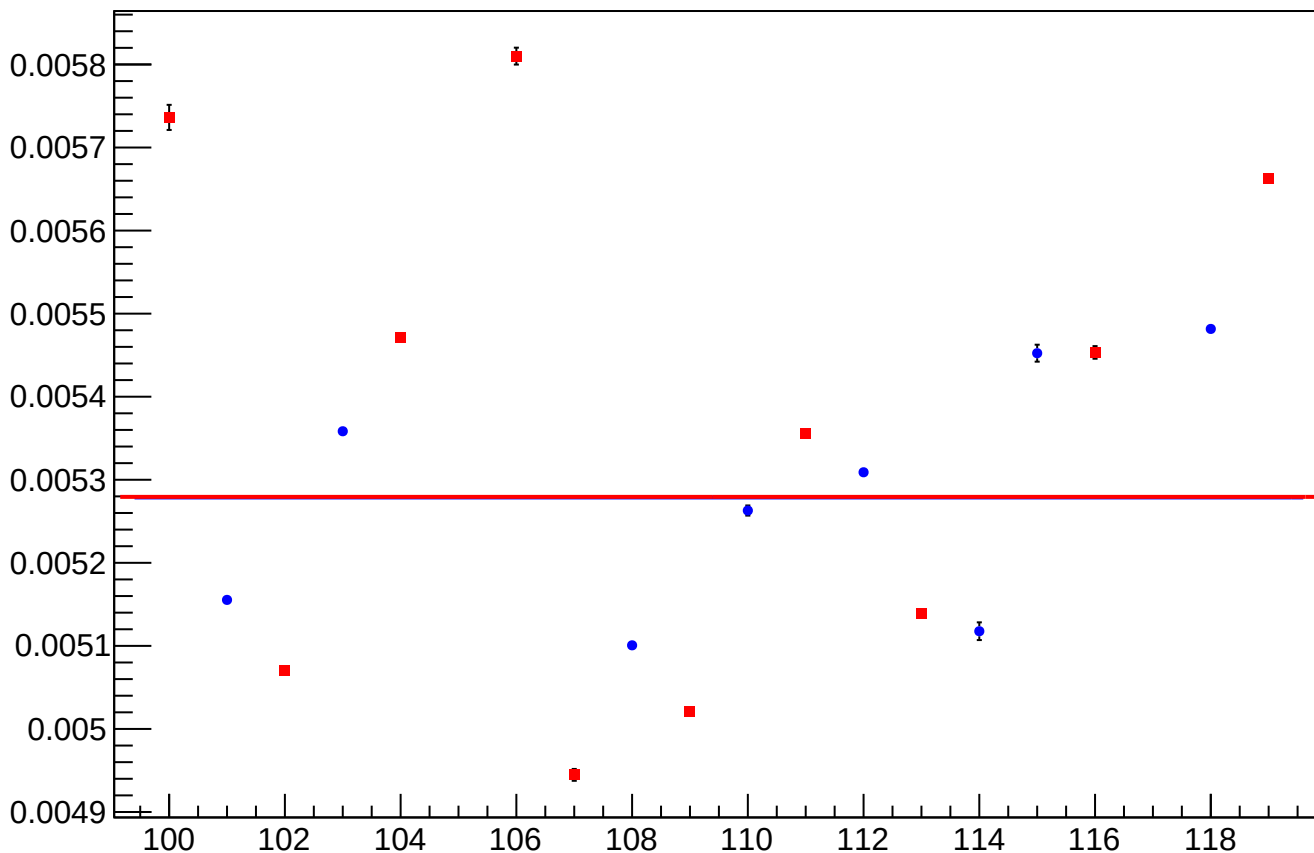
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.302+/-0.000  $\chi^2/\text{NDF}$ : 357613394950.6

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 3997.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 19040.2/9

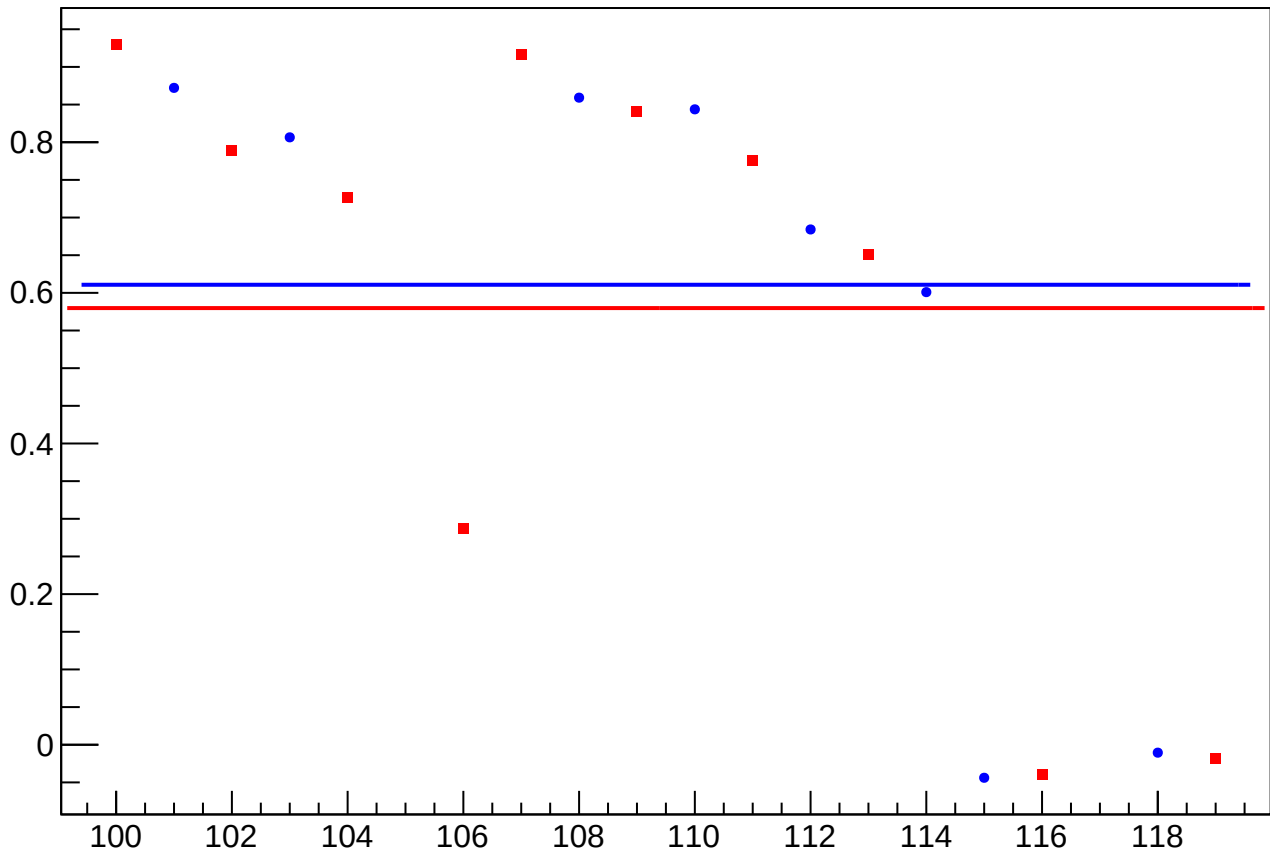
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 23037.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06X\_mean vs Slug



Right In: 0.611+/-0.000  $\chi^2/\text{NDF}$ : 2020310082.0/7

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

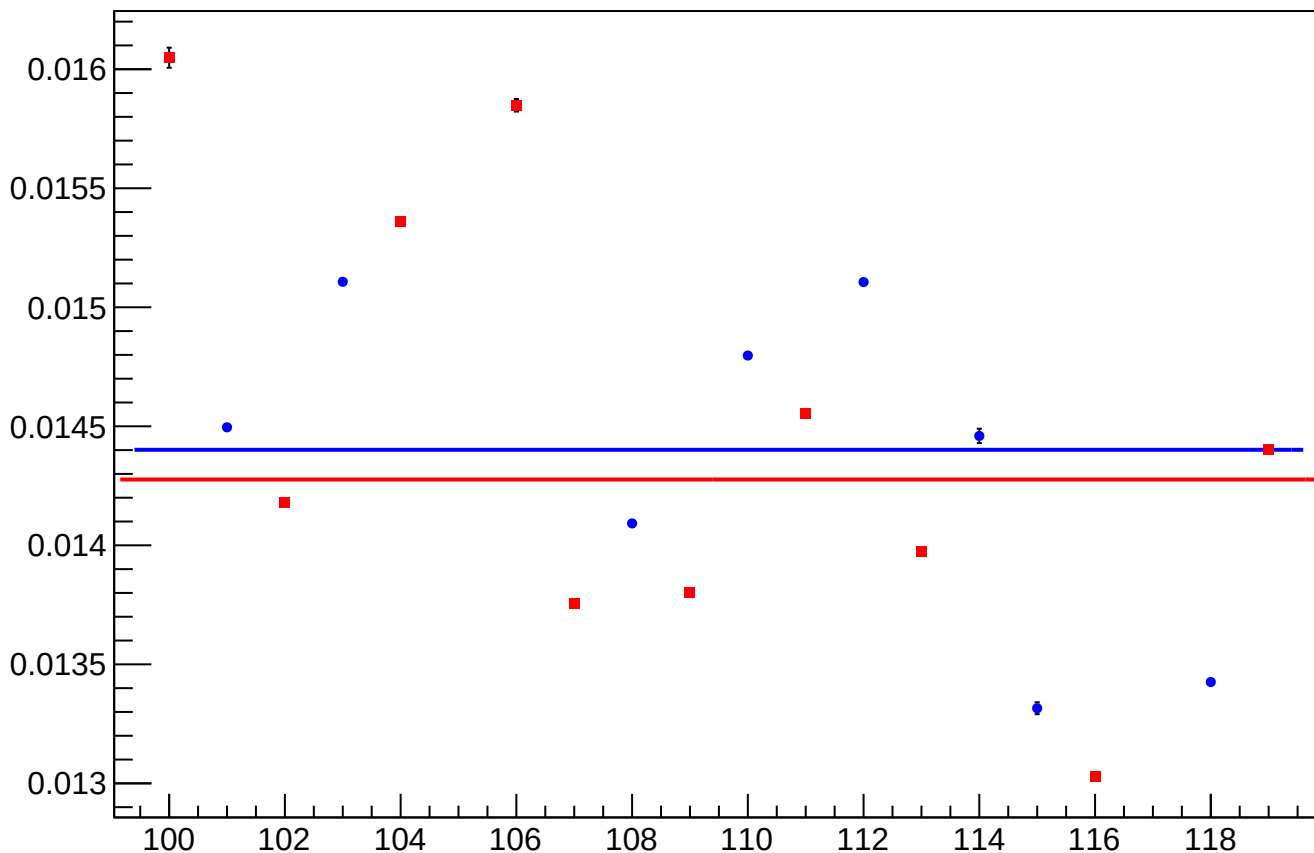
Right Out: 0.580+/-0.000  $\chi^2/\text{NDF}$ : 2307566741.1/9

All: 0.594+/-0.000  $\chi^2/\text{NDF}$ : 4336236870.8/17

- 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\_bpm1i06X\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 13216.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 18079.8/9

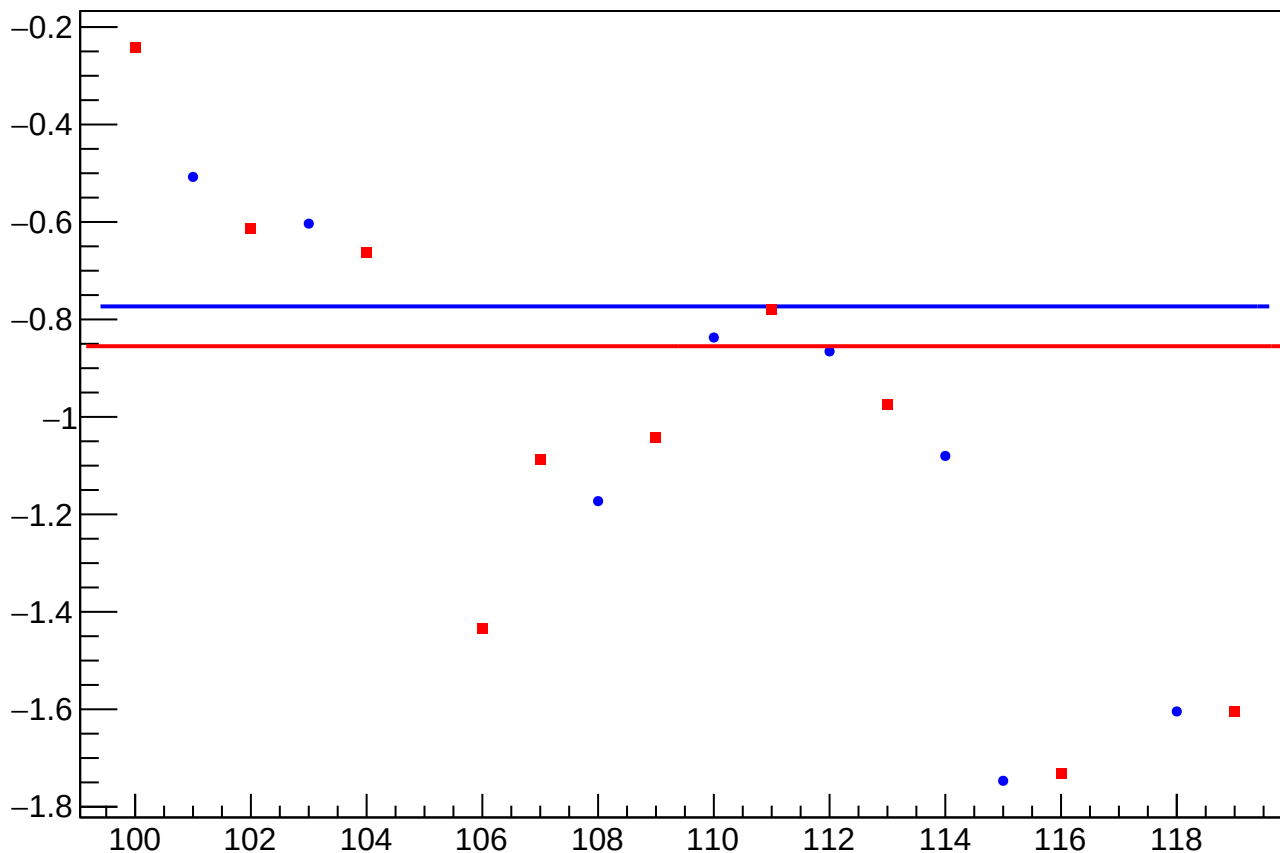
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 31567.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06Y\_mean vs Slug



Right In: -0.773+/-0.000  $\chi^2/\text{NDF}$ : 16010370525.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.855+/-0.000  $\chi^2/\text{NDF}$ : 17532702203.9/9

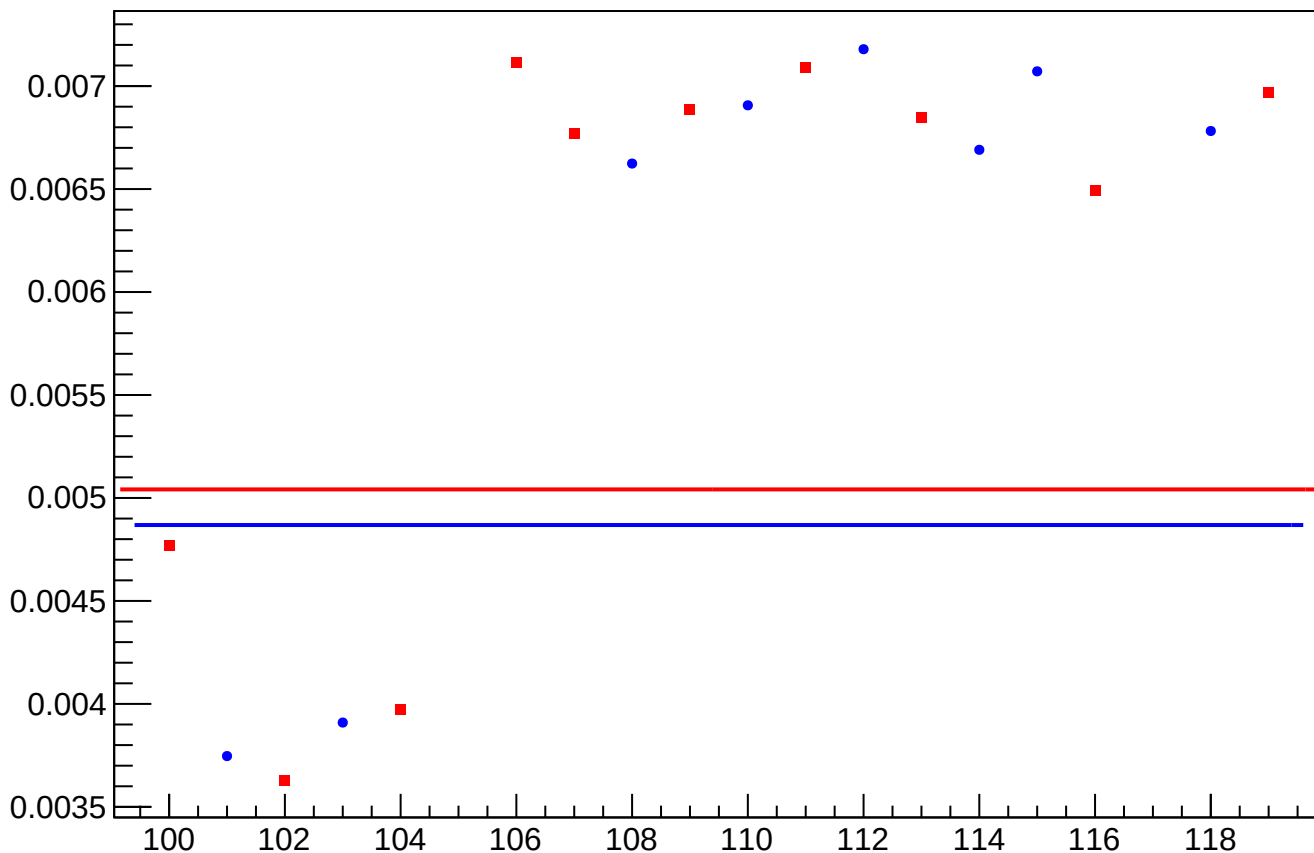
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.816+/-0.000  $\chi^2/\text{NDF}$ : 33963857835.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 505226.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 626022.4/9

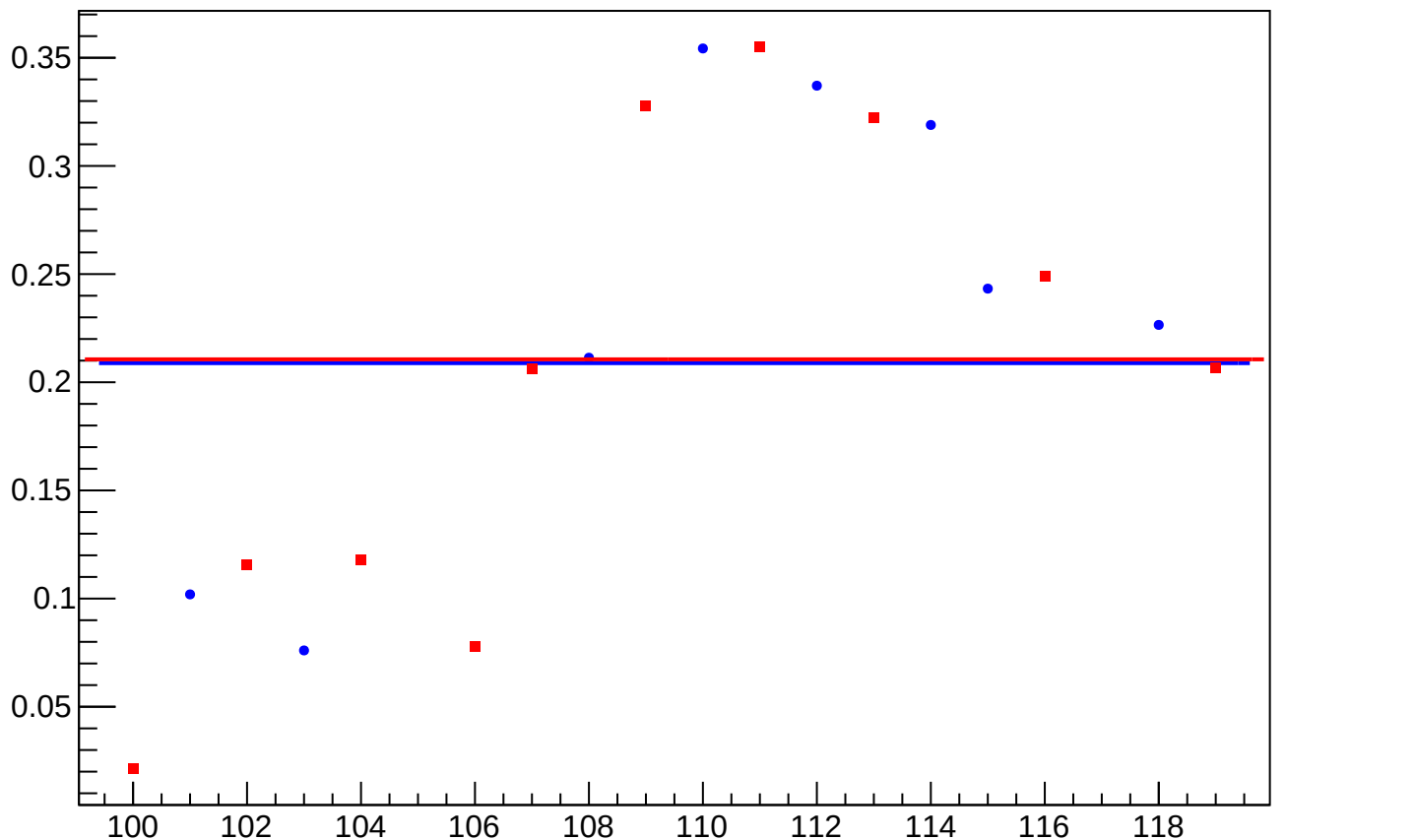
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1135024.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01X\_mean vs Slug



Right In: 0.209+/-0.000  $\chi^2/\text{NDF}$ : 14074469681.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.211+/-0.000  $\chi^2/\text{NDF}$ : 19120236804.9/9

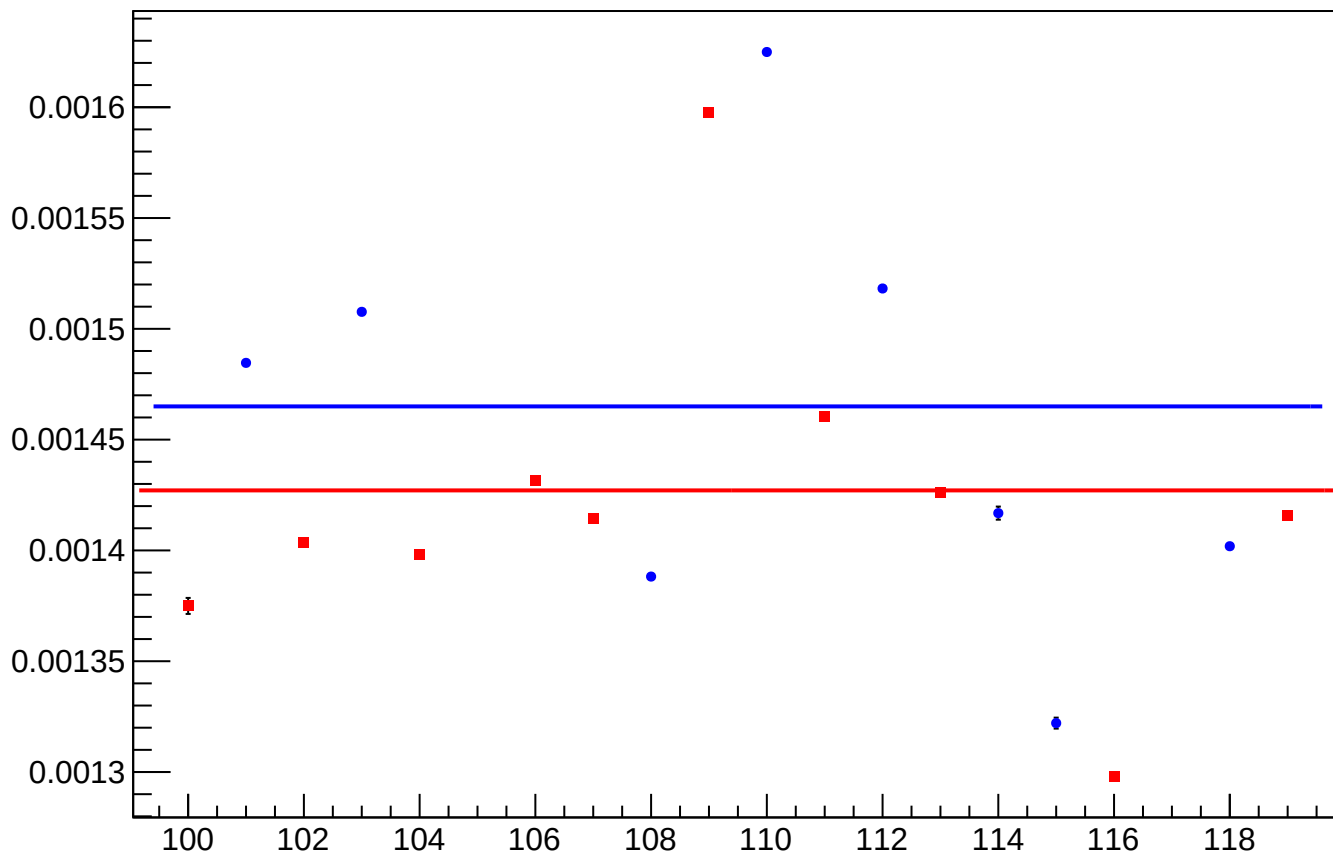
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.210+/-0.000  $\chi^2/\text{NDF}$ : 33197239219.9/19

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01X\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 17052.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 18355.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

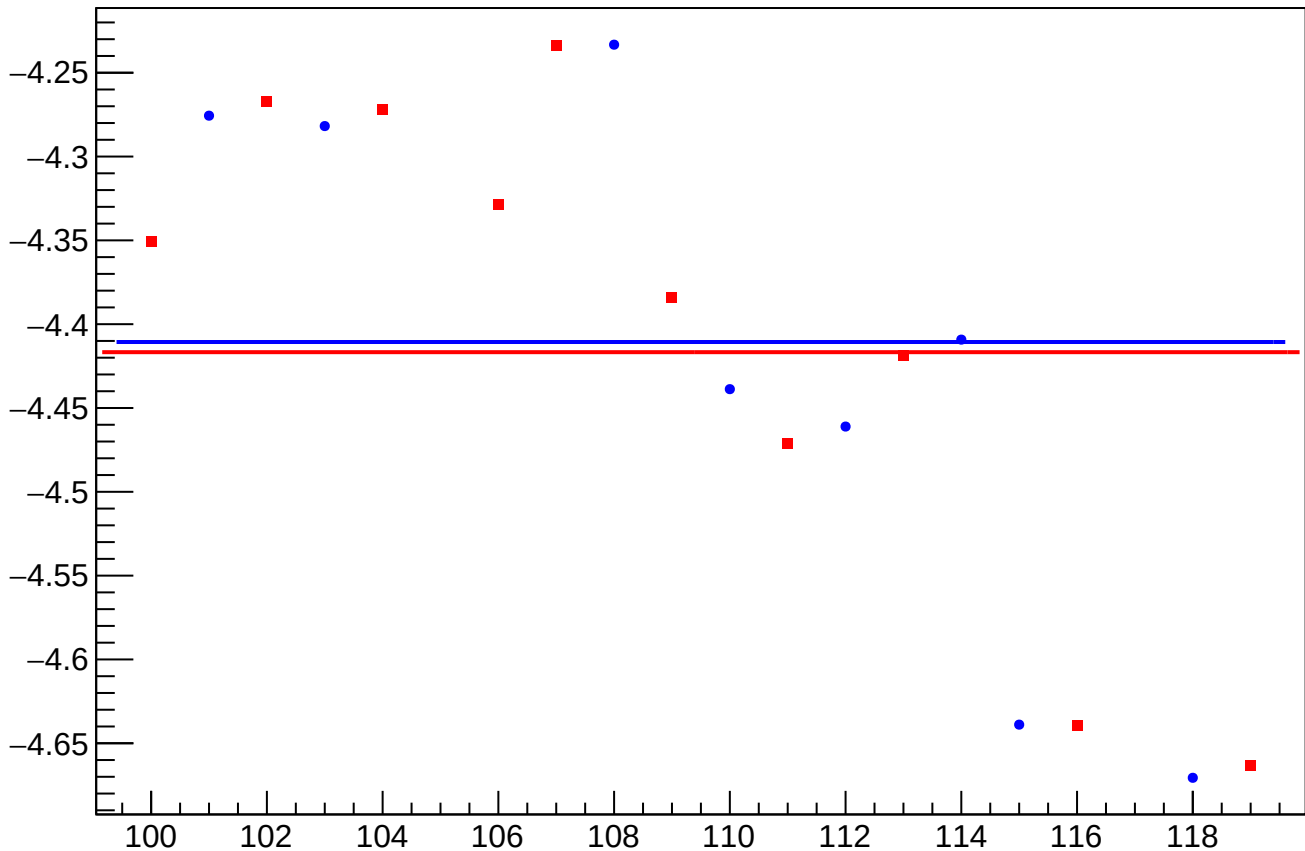
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 37785.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm2i01Y\_mean vs Slug



Right In: -4.411+/-0.000  $\chi^2/\text{NDF}$ : 30231517449.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.417+/-0.000  $\chi^2/\text{NDF}$ : 29668208824.0/9

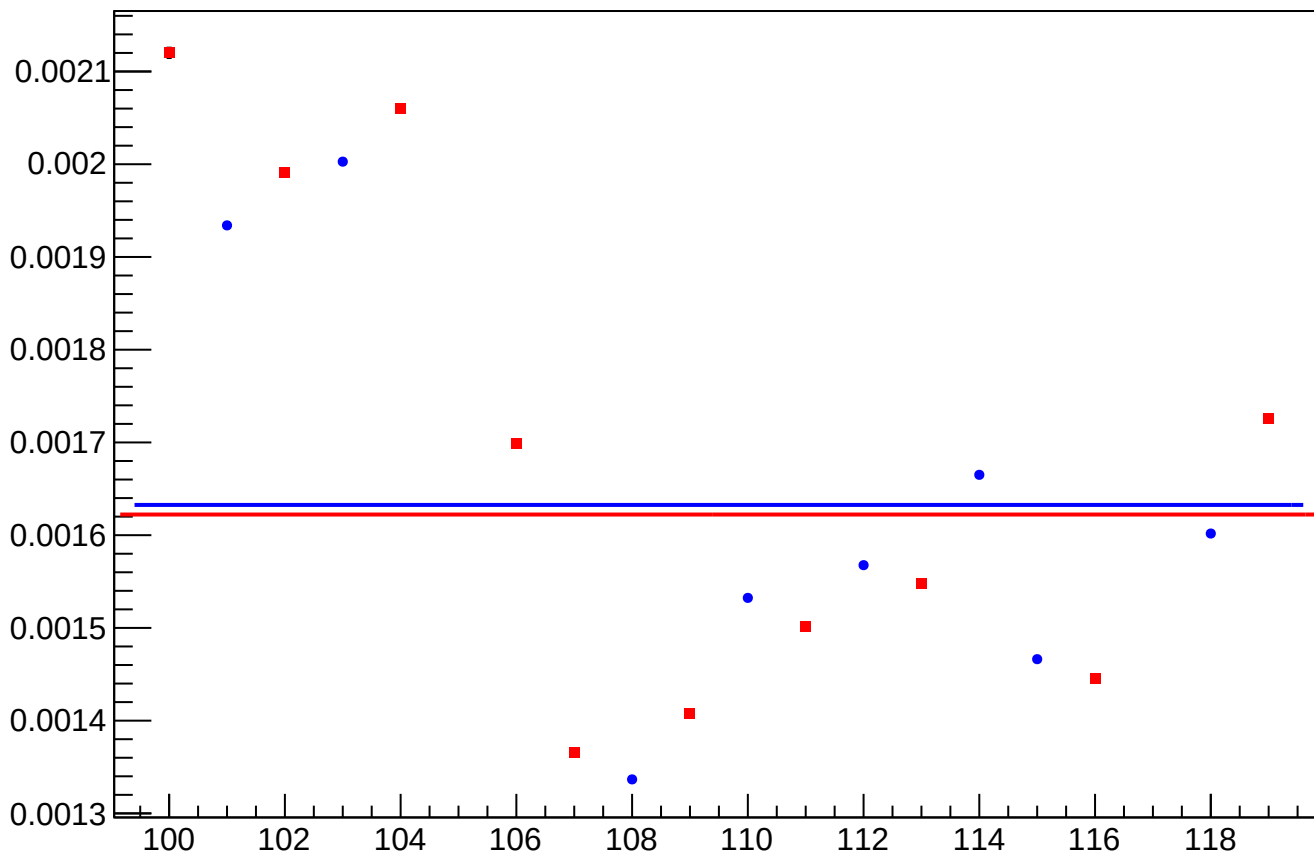
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.414+/-0.000  $\chi^2/\text{NDF}$ : 59924119643.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01Y\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 119700.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 160887.3/9

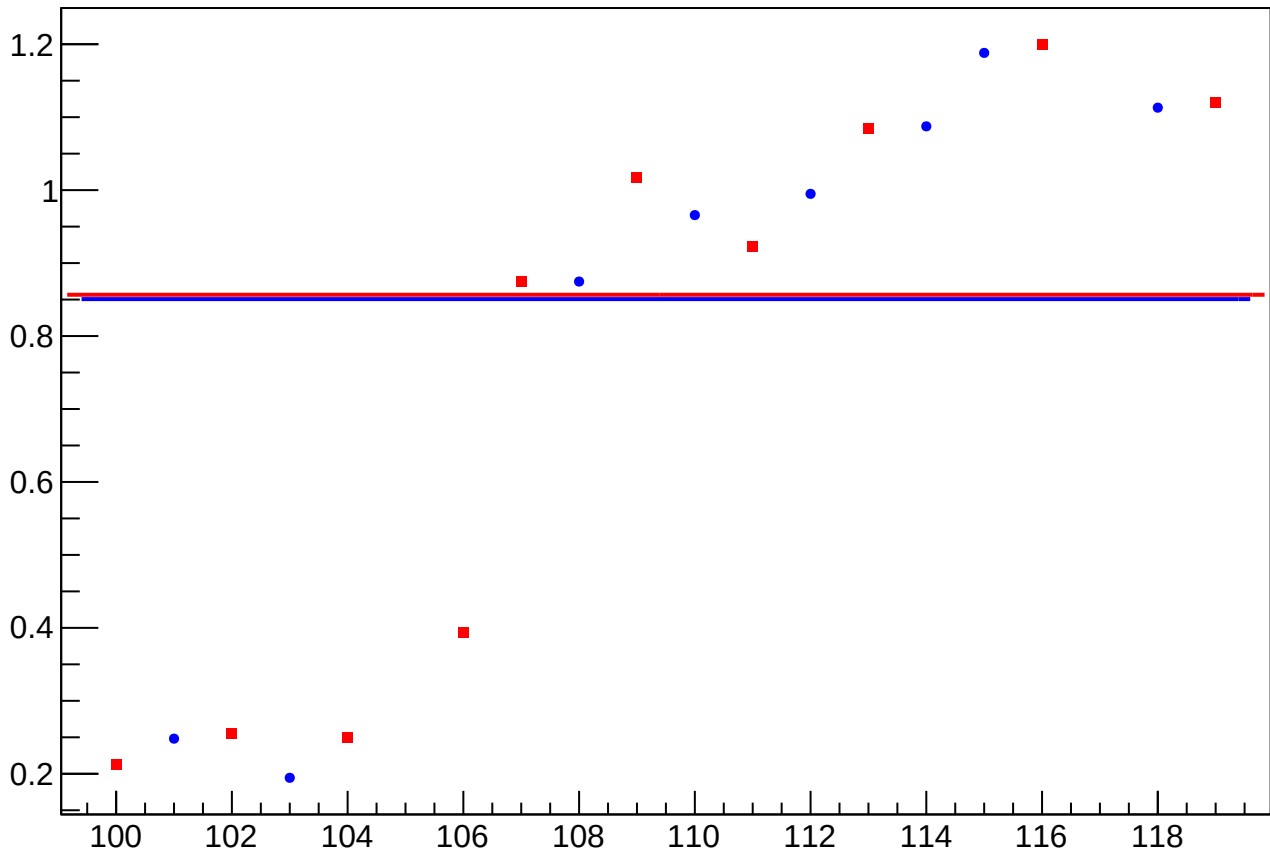
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 280729.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02X\_mean vs Slug



Right In: 0.851+/-0.000  $\chi^2/\text{NDF}$ : 8758619344.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.857+/-0.000  $\chi^2/\text{NDF}$ : 11888539196.1/9

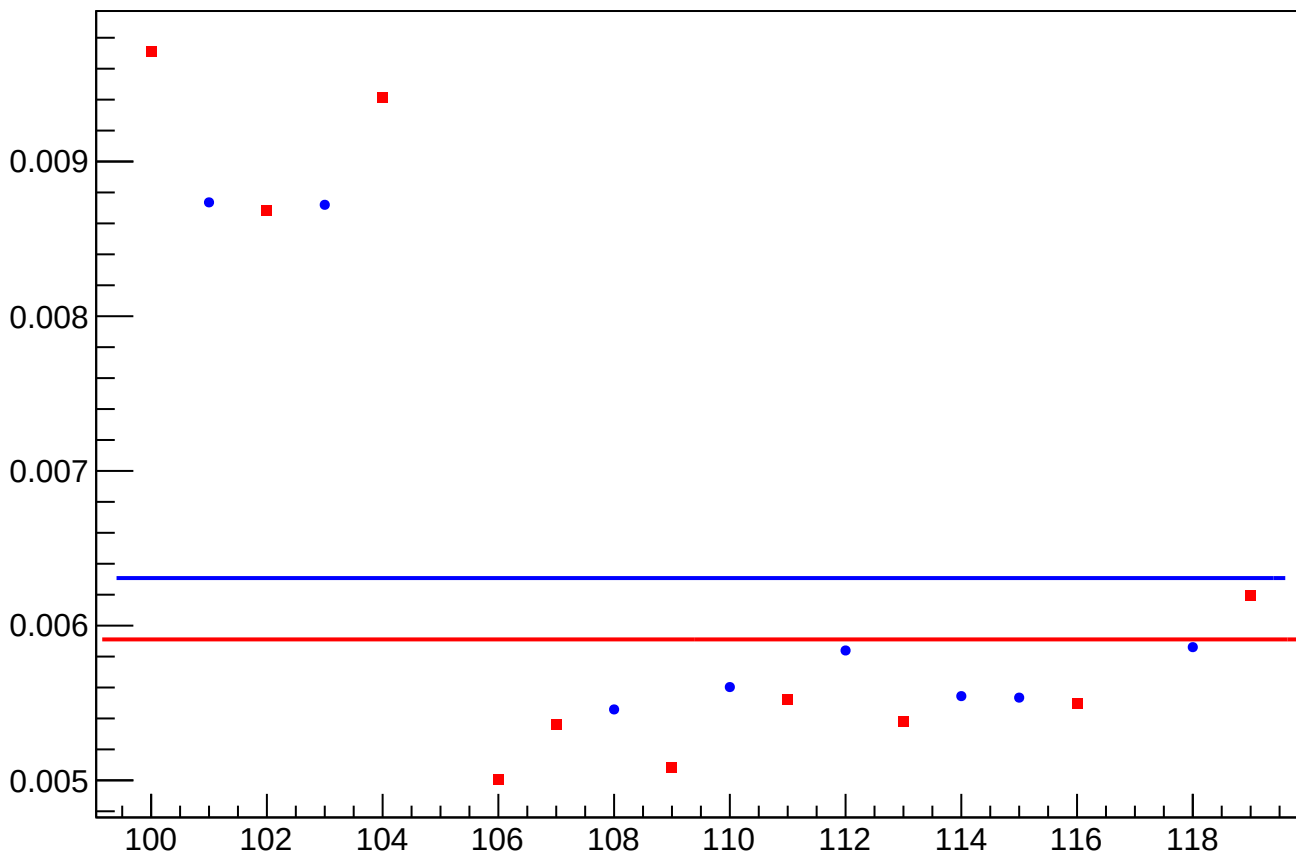
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.854+/-0.000  $\chi^2/\text{NDF}$ : 20648821544.3/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02X\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 245586.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 372046.5/9

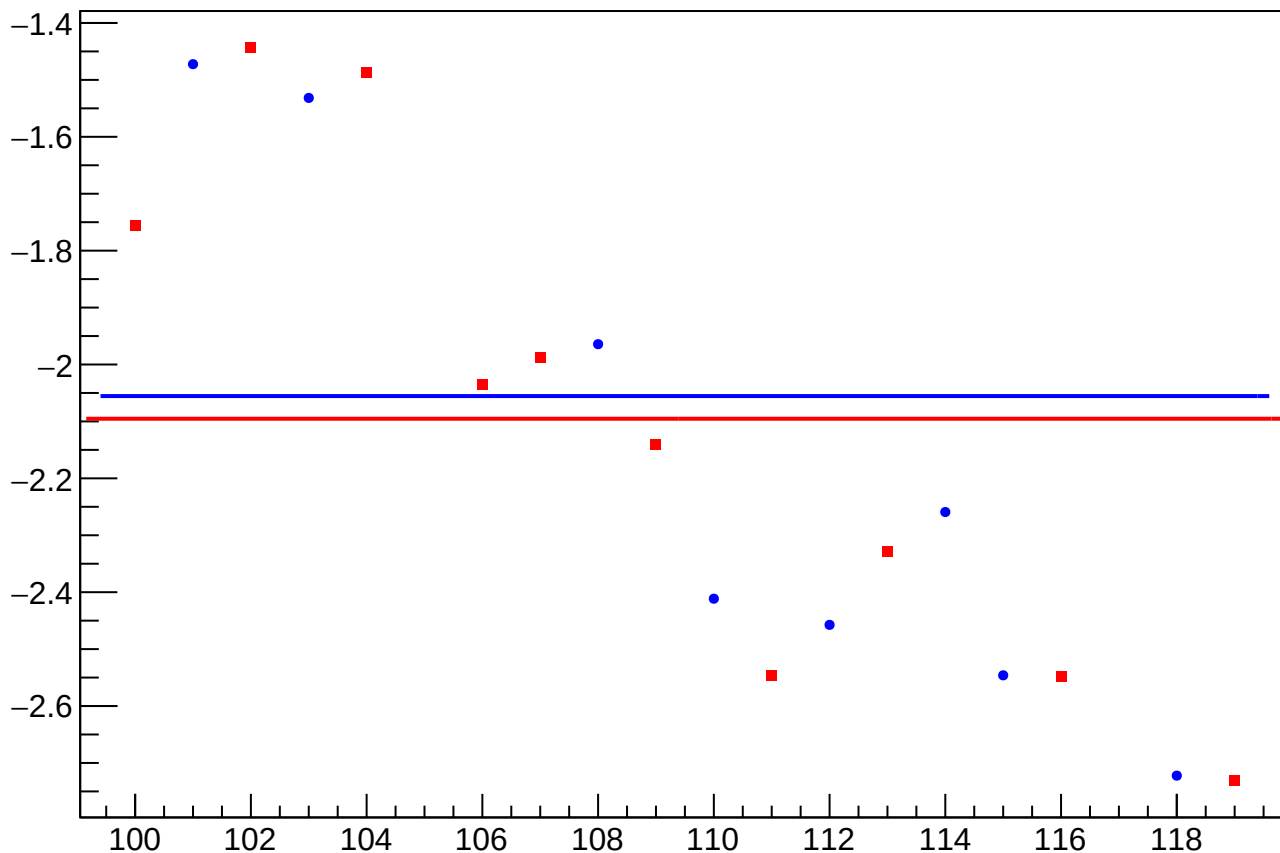
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 632315.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02Y\_mean vs Slug



Right In: -2.055+/-0.000  $\chi^2/\text{NDF}$ : 24417522657.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -2.095+/-0.000  $\chi^2/\text{NDF}$ : 26030004560.2/9

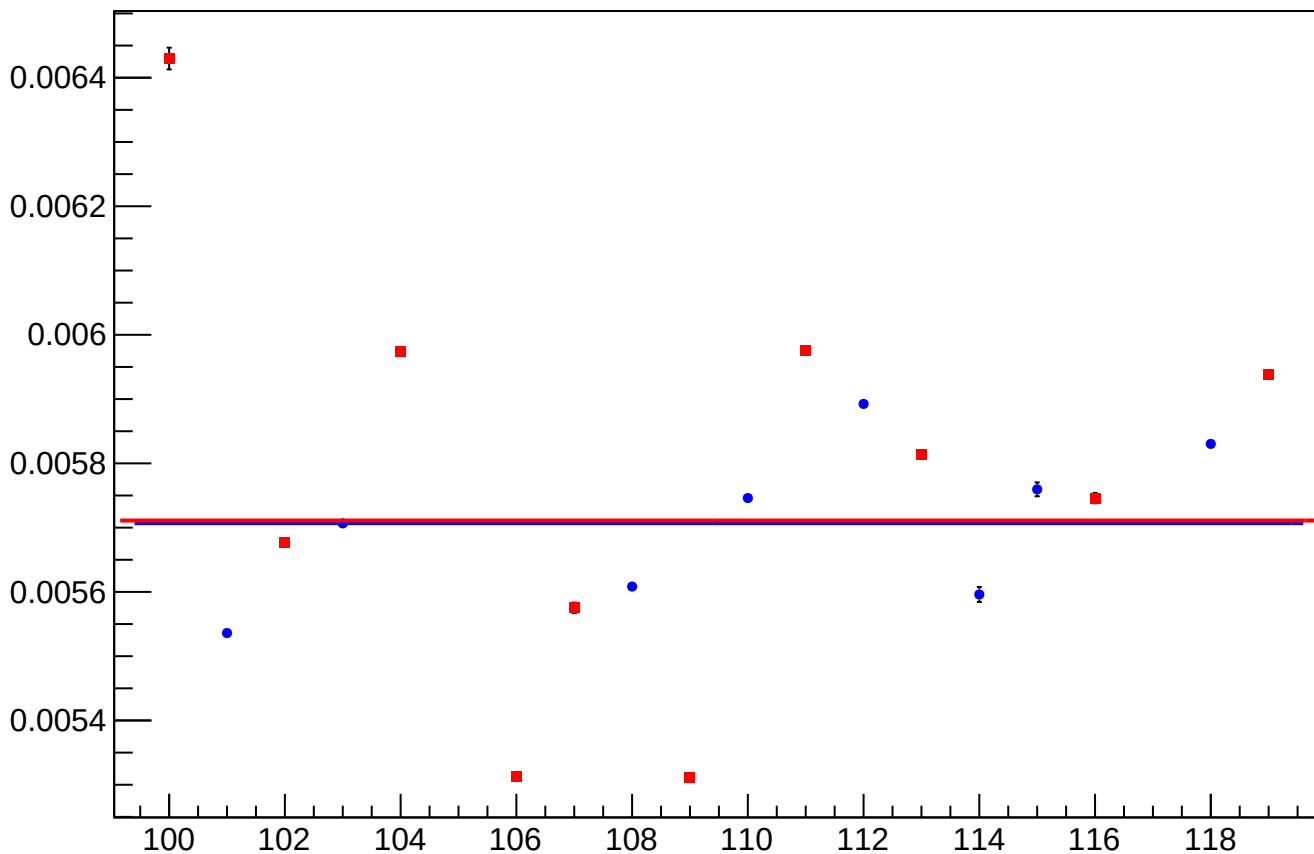
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.077+/-0.000  $\chi^2/\text{NDF}$ : 50536706383.3/16

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02Y\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 3106.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 17664.7/9

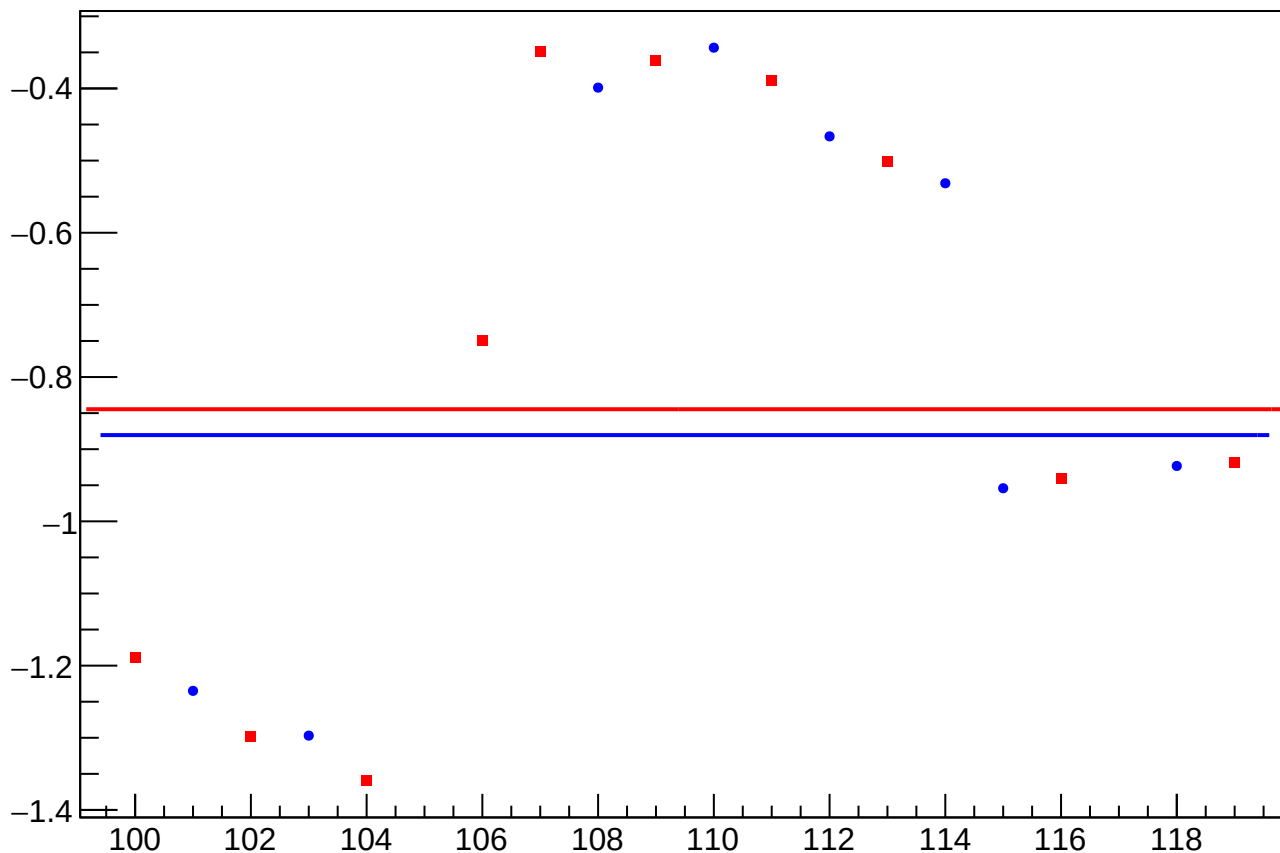
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 20773.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01X\_mean vs Slug



Right In: -0.880+/-0.000  $\chi^2/\text{NDF}$ : 4094083484.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.845+/-0.000  $\chi^2/\text{NDF}$ : 5639801517.4/9

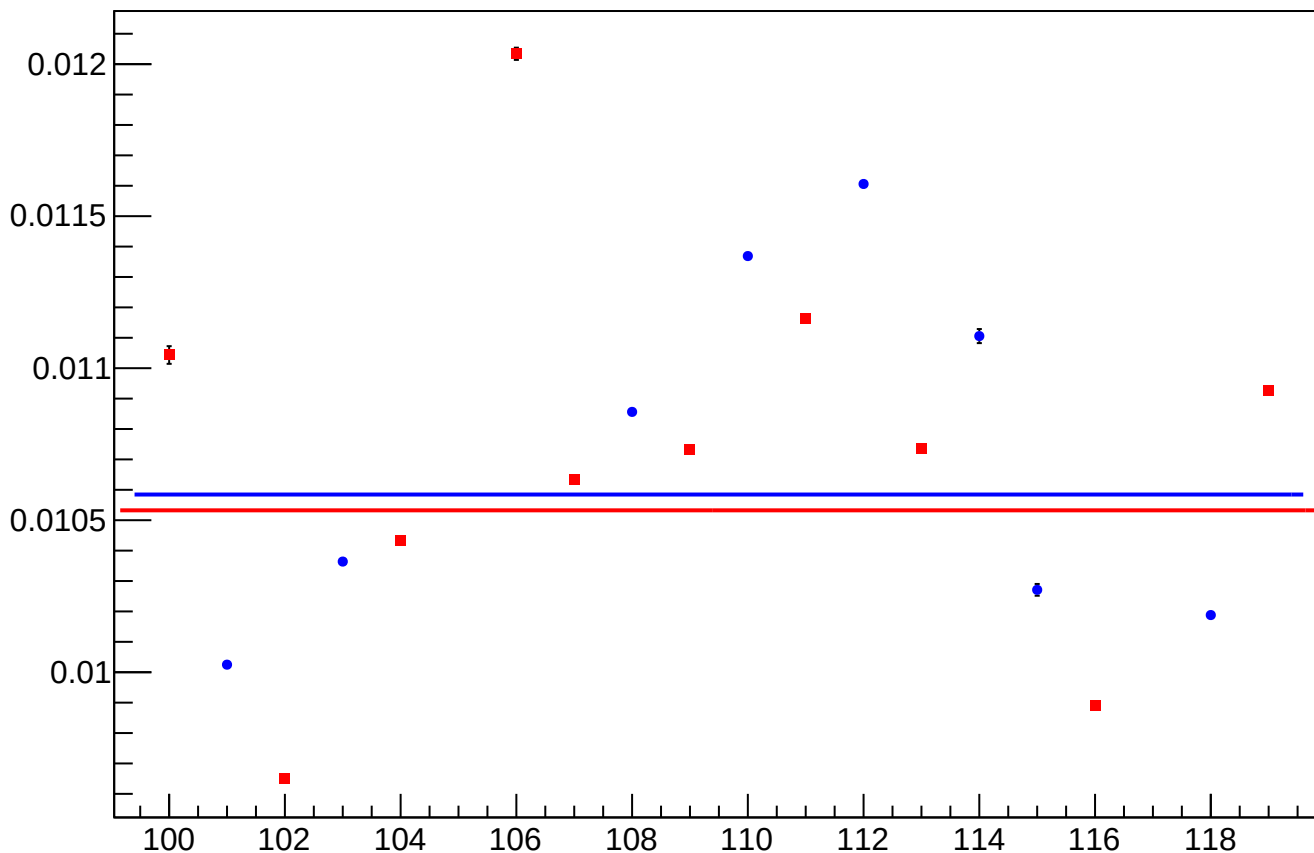
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.861+/-0.000  $\chi^2/\text{NDF}$ : 9754388859.6/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 18506.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 24040.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

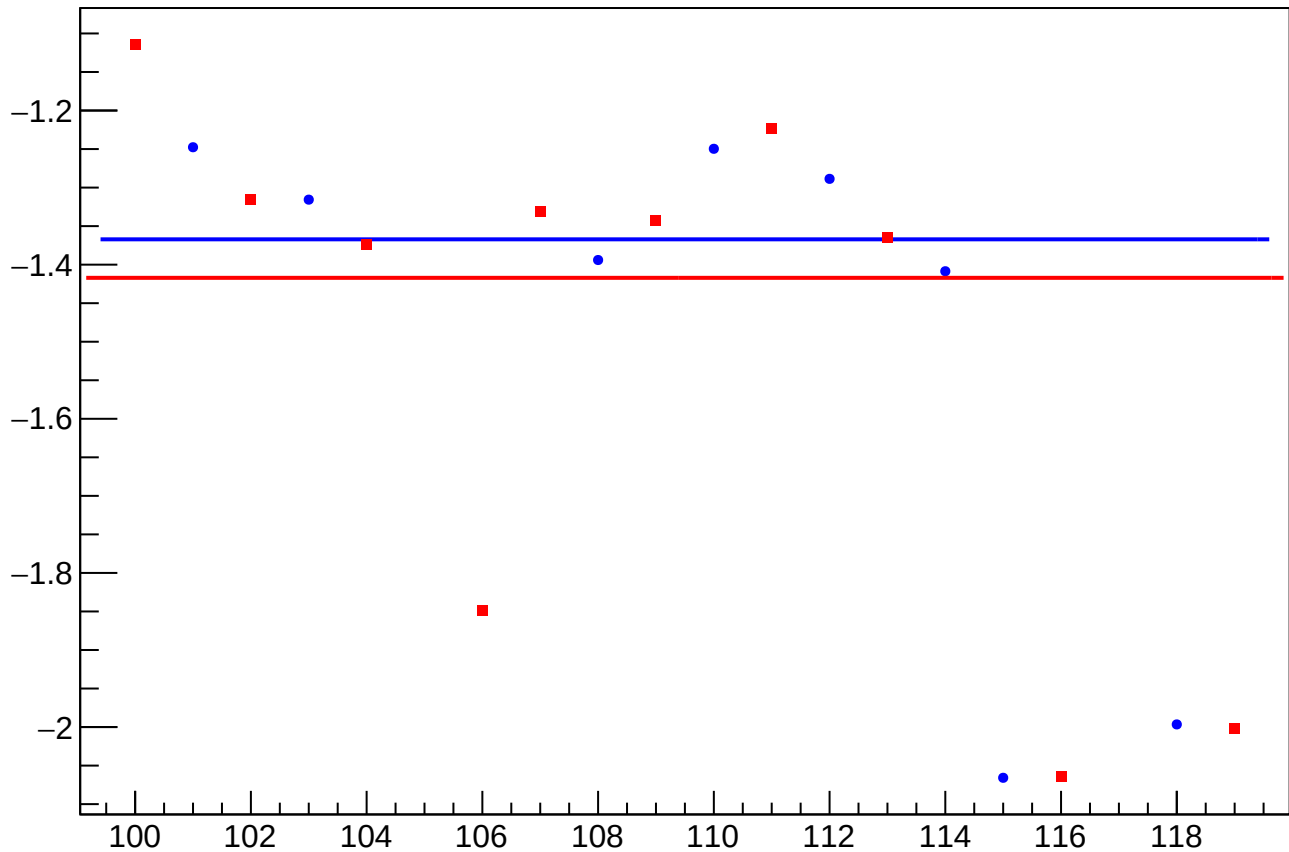
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 42633.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i01Y\_mean vs Slug



Right In: -1.367+/-0.000  $\chi^2/\text{NDF}$ : 30404795696.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.417+/-0.000  $\chi^2/\text{NDF}$ : 40176154307.1/9

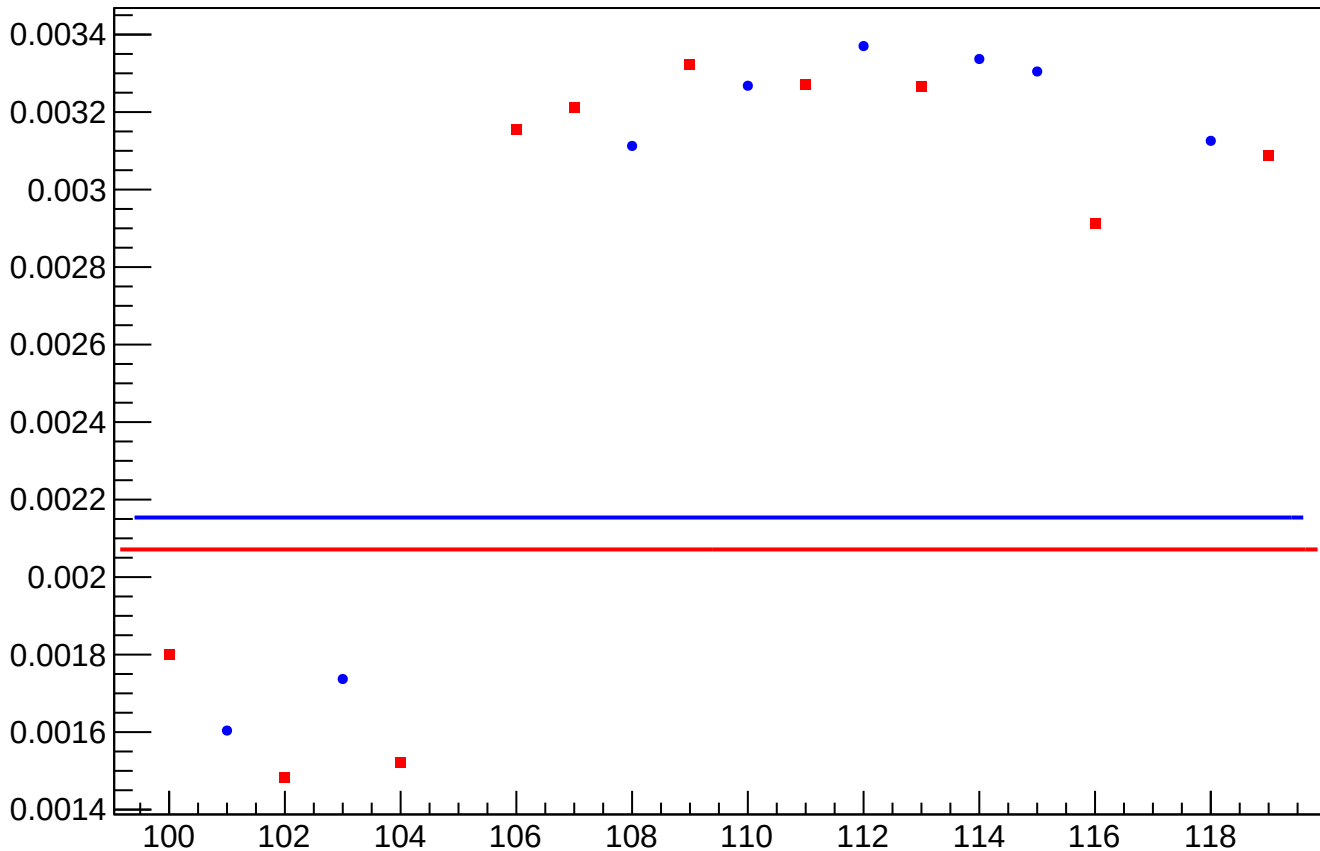
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.395+/-0.000  $\chi^2/\text{NDF}$ : 71381125146.6/16

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01Y\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 611703.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 916828.7/9

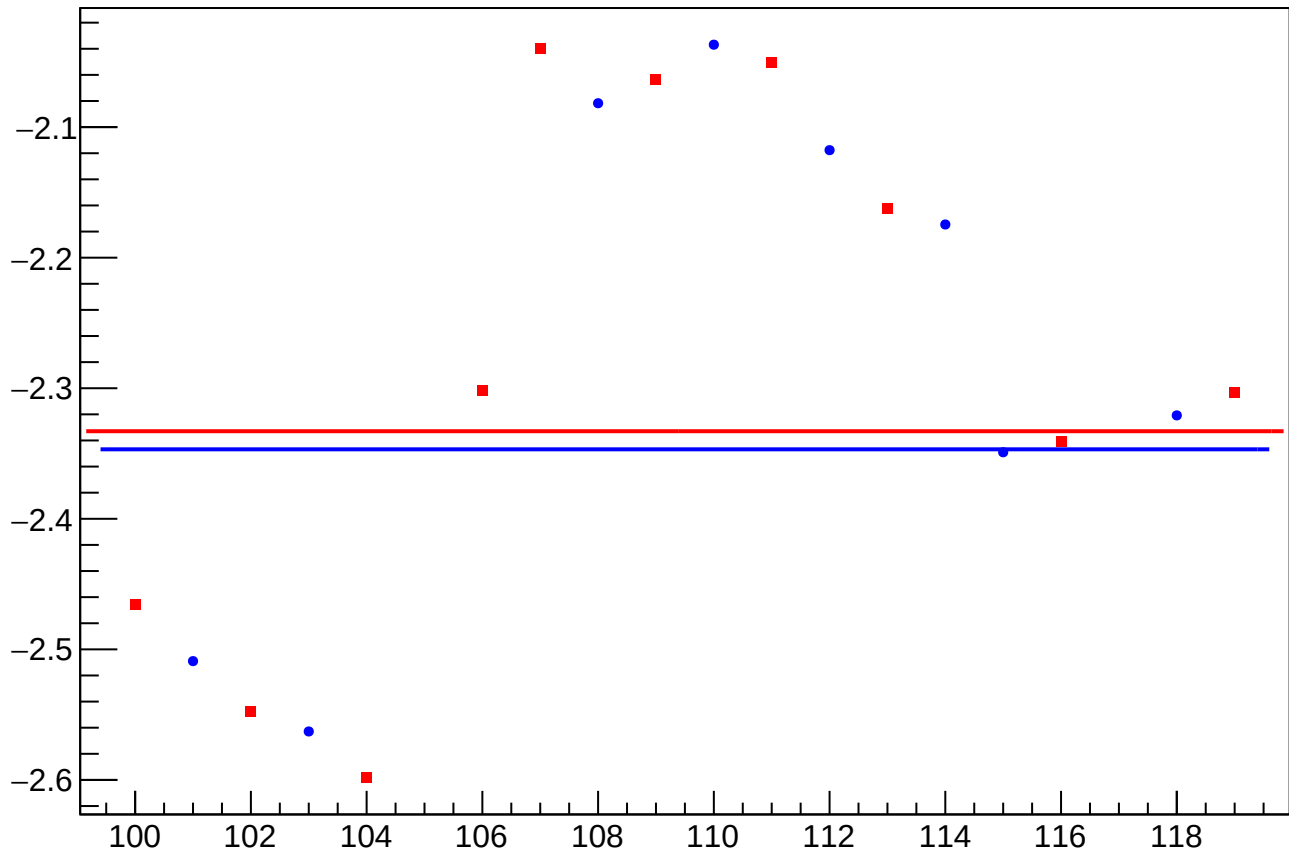
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1532885.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aX\_mean vs Slug



Right In:  $-2.347 \pm 0.000$   $\chi^2/\text{NDF}$ : 3143229565.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.333 \pm 0.000$   $\chi^2/\text{NDF}$ : 4441499907.8/9

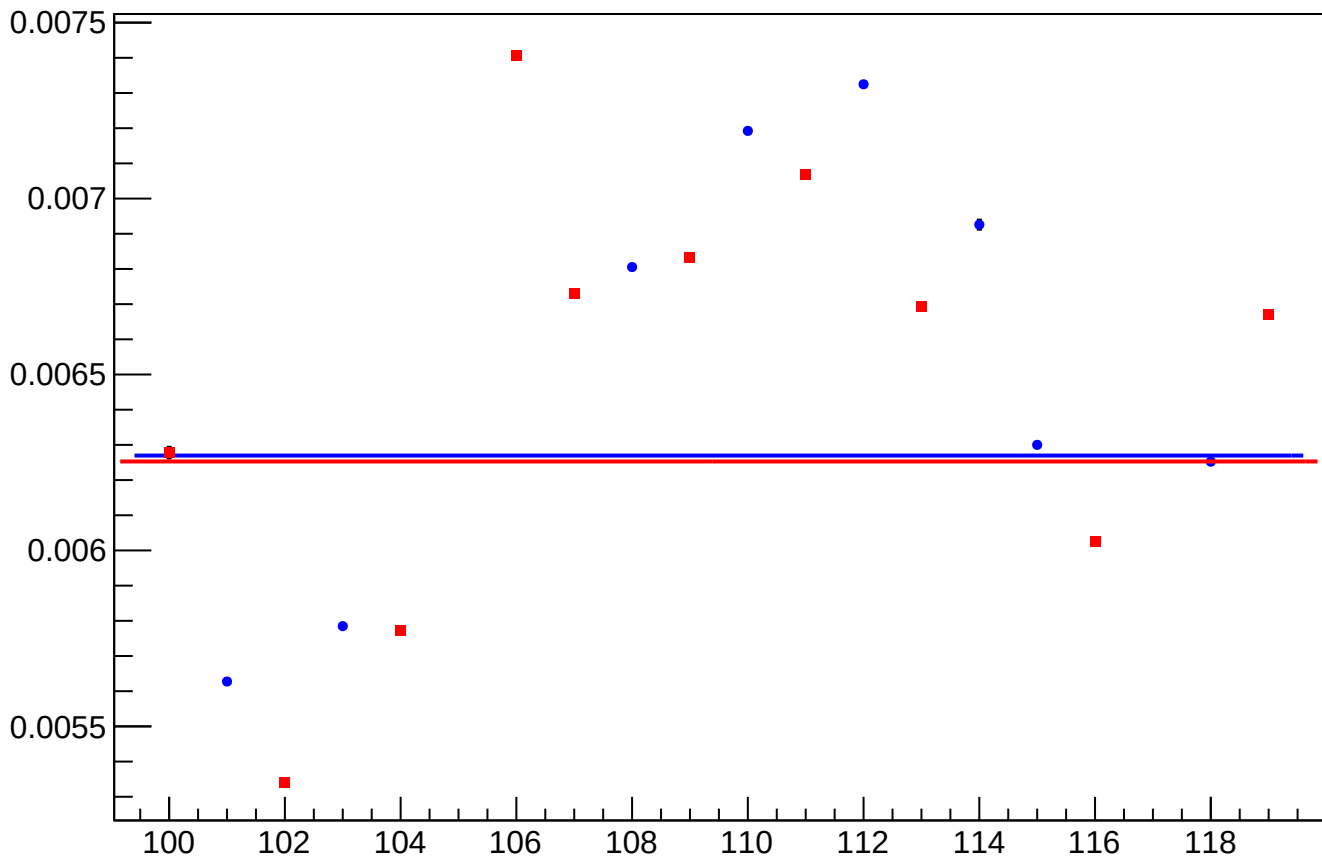
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.339 \pm 0.000$   $\chi^2/\text{NDF}$ : 7593286652.4/1

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aX\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 63591.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 83993.3/9

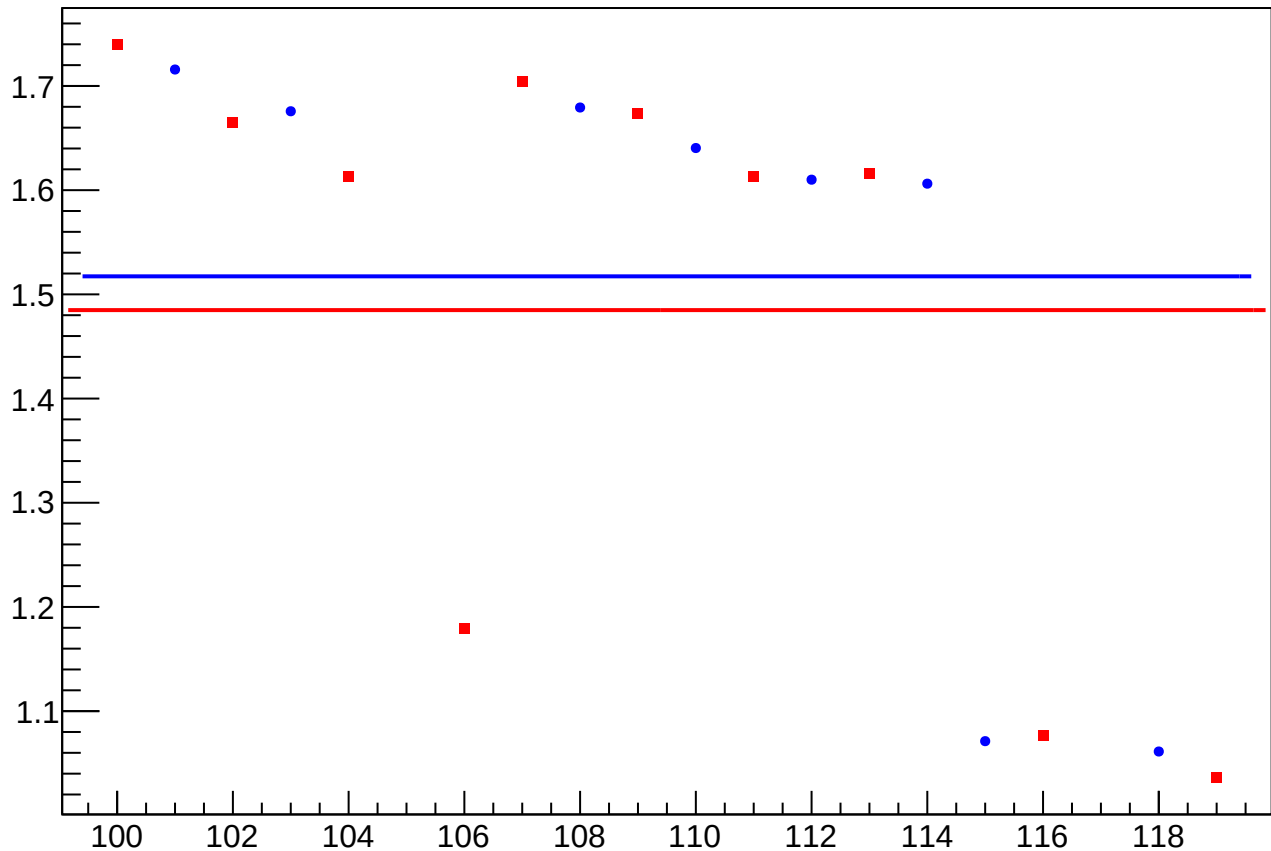
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 147610.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aY\_mean vs Slug



Right In: 1.517+/-0.000  $\chi^2/\text{NDF}$ : 46932462309.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.485+/-0.000  $\chi^2/\text{NDF}$ : 58993984614.6/9

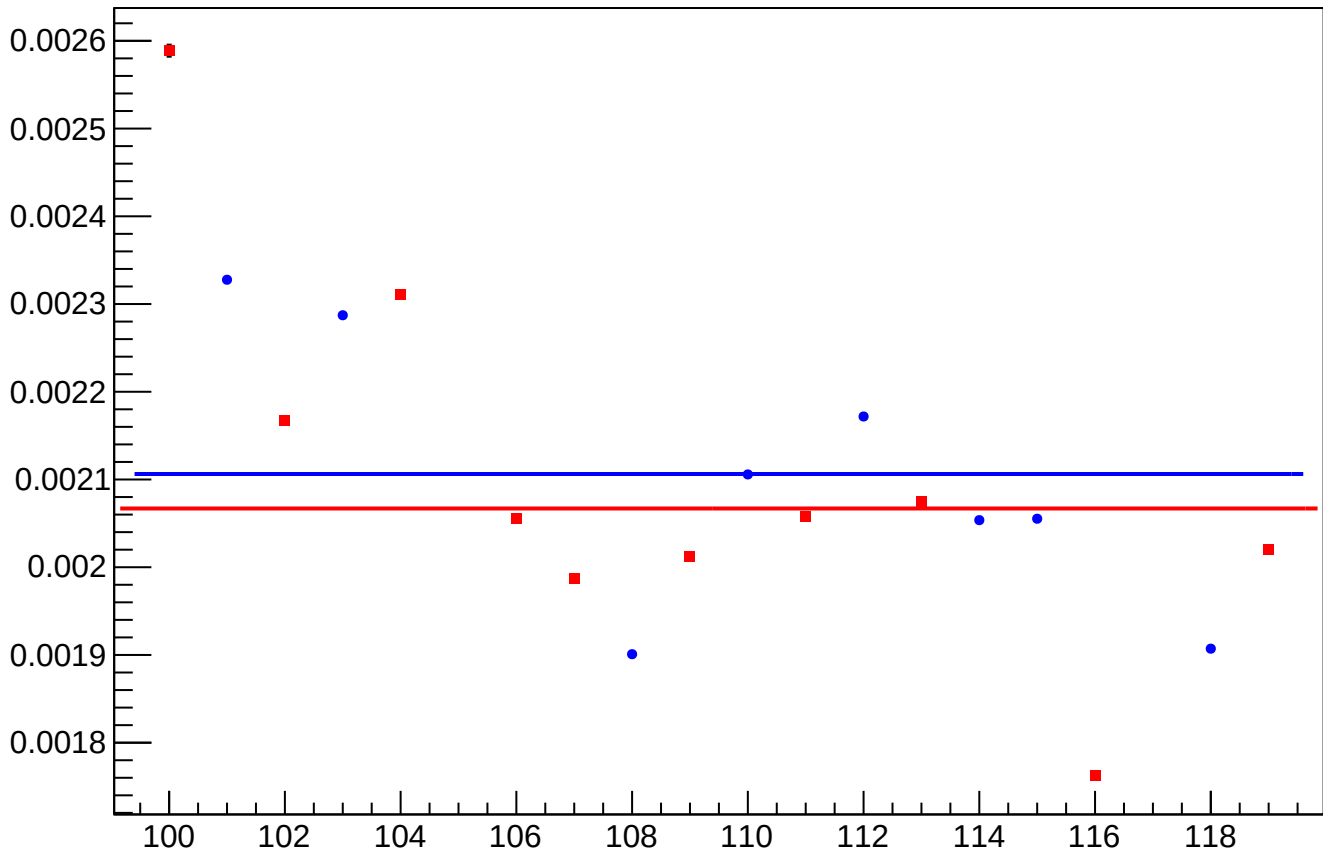
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.499+/-0.000  $\chi^2/\text{NDF}$ : 106328935642.7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aY\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 38920.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 36579.0/9

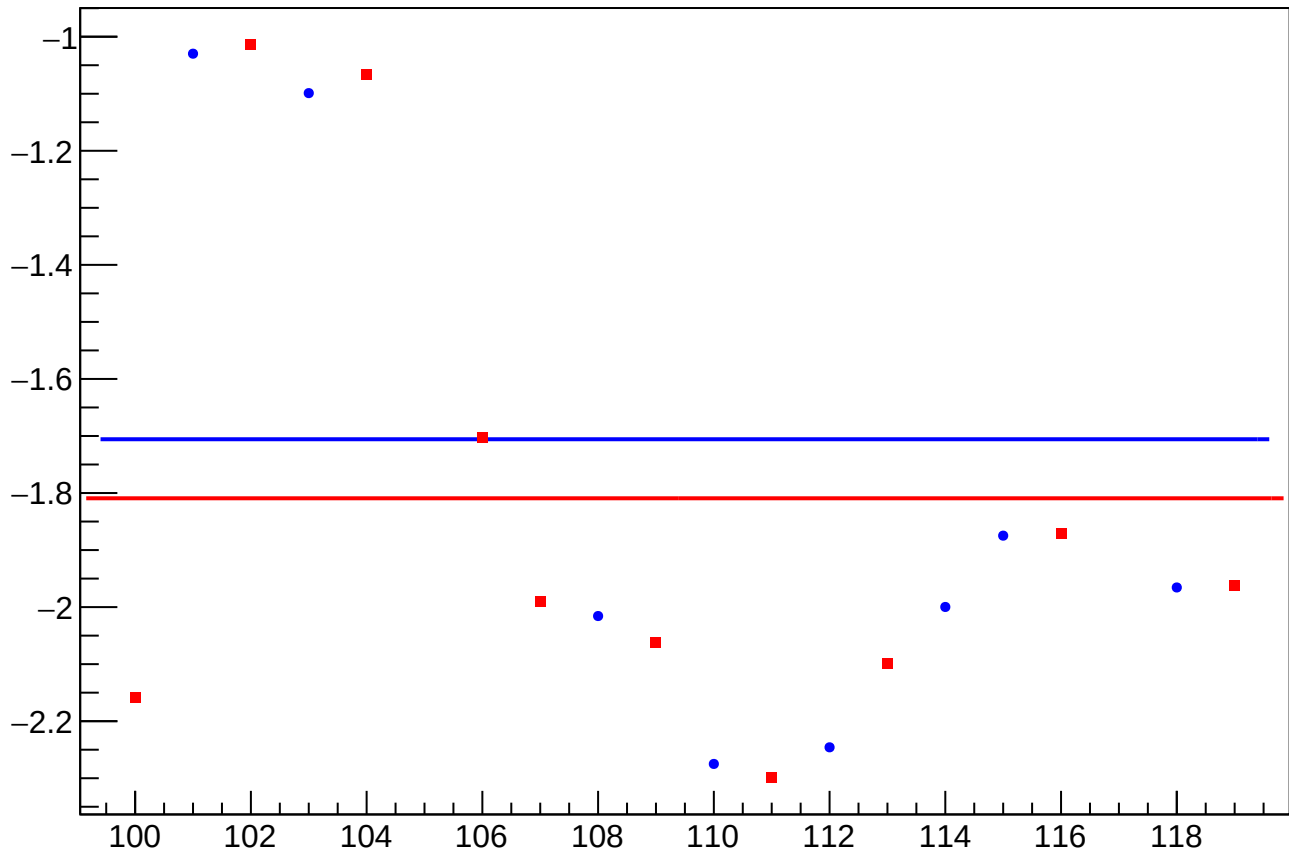
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 76684.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l01X\_mean vs Slug



Right In: -1.706+/-0.000  $\chi^2/\text{NDF}$ : 16449265997.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -1.809+/-0.000  $\chi^2/\text{NDF}$ : 18784543797.4/9

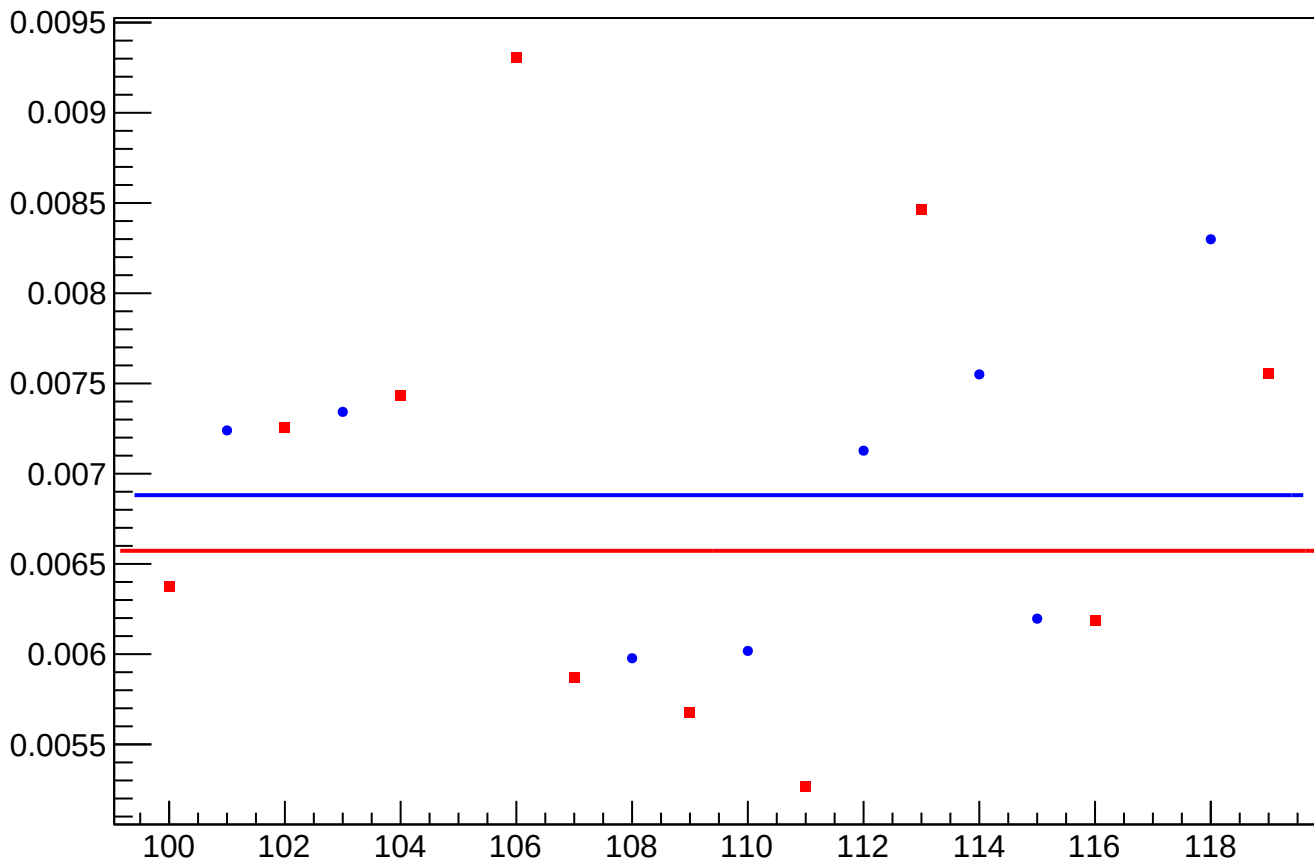
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.766+/-0.000  $\chi^2/\text{NDF}$ : 35616044413.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l01X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 66797.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 208771.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

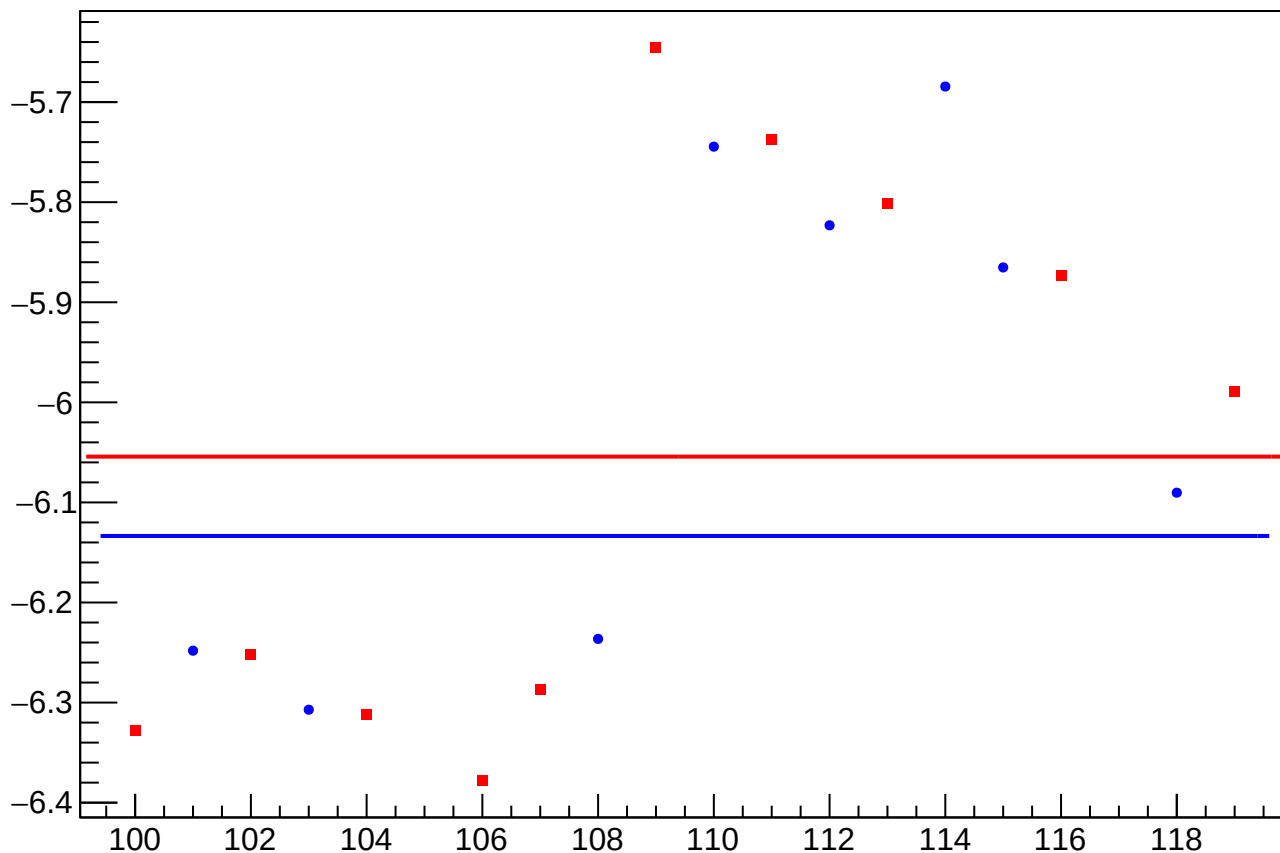
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 282355.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l01Y\_mean vs Slug



Right In: -6.134+/-0.000  $\chi^2/\text{NDF}$ : 3654735525.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.054+/-0.000  $\chi^2/\text{NDF}$ : 7861295137.8/9

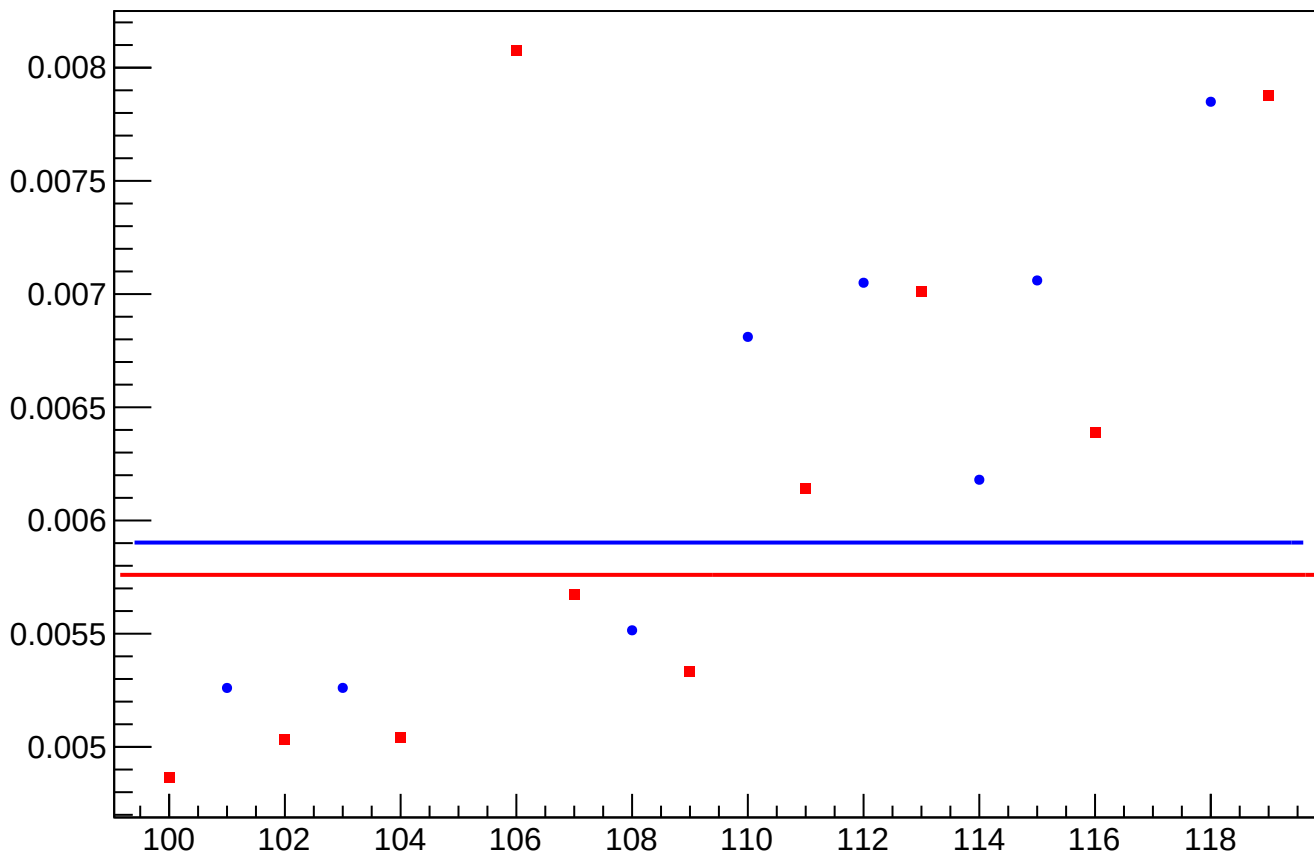
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.089+/-0.000  $\chi^2/\text{NDF}$ : 11809849790.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l01Y\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 131603.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 198007.8/9

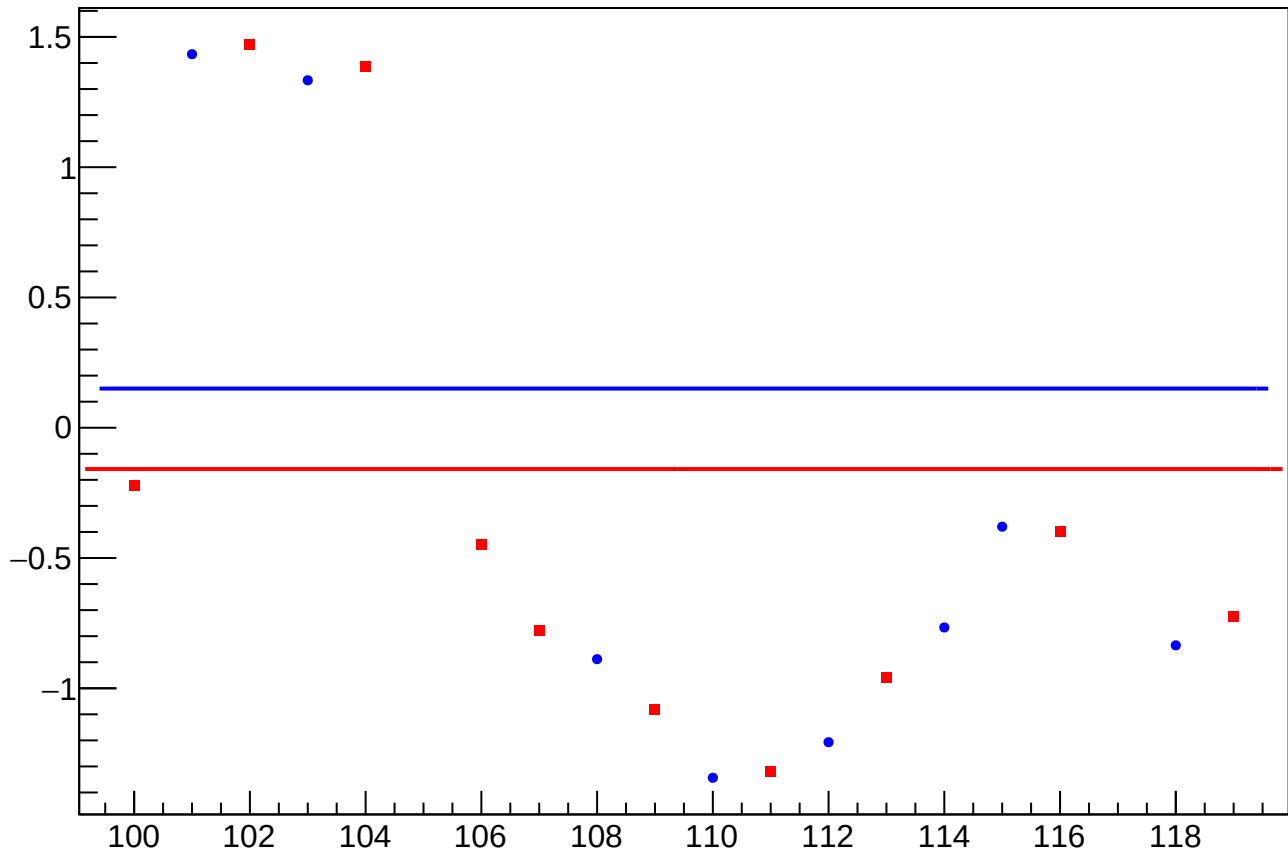
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 331515.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02X\_mean vs Slug



Right In: 0.150+/-0.000  $\chi^2/\text{NDF}$ : 17102092773.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.158+/-0.000  $\chi^2/\text{NDF}$ : 21236299515.8/9

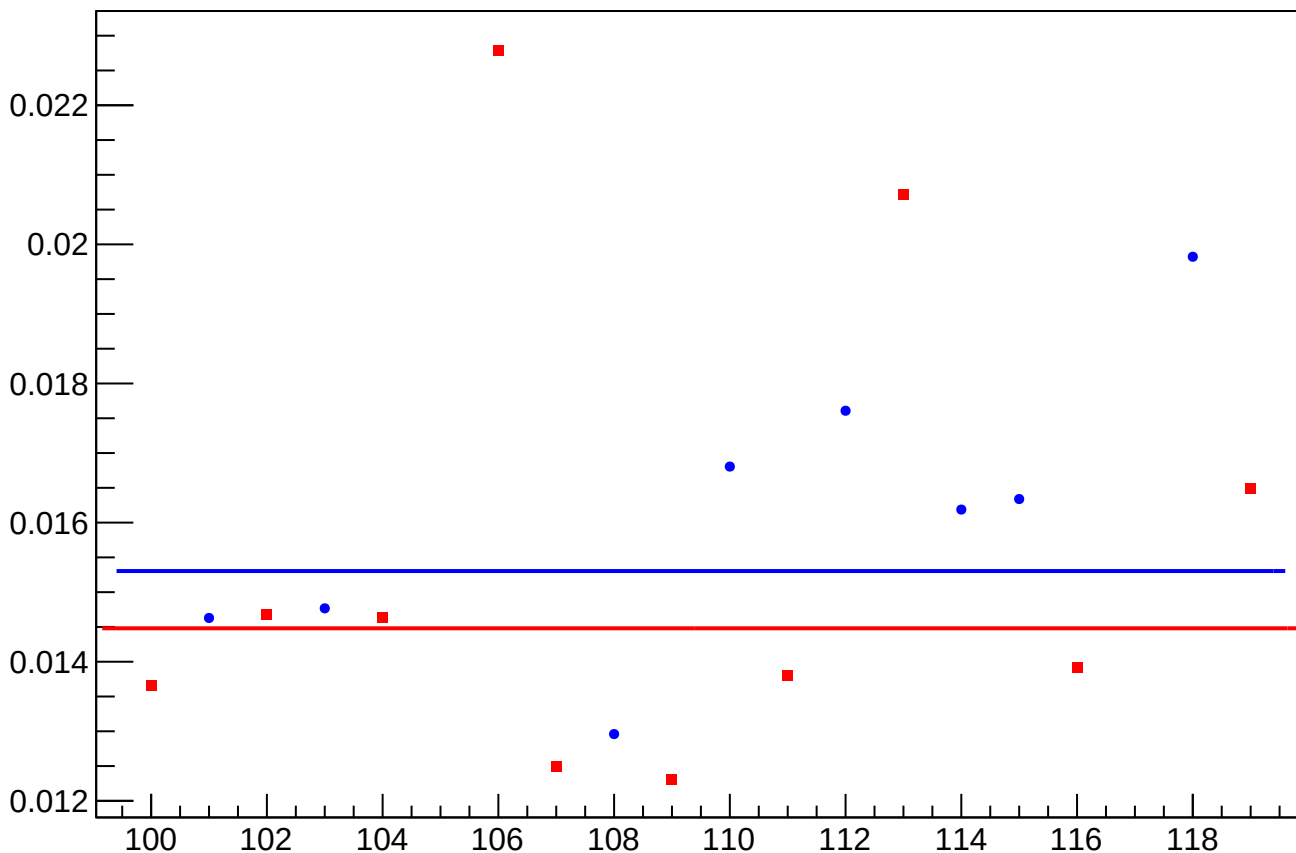
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.030+/-0.000  $\chi^2/\text{NDF}$ : 39005856407.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02X\_rms vs Slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 83561.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 176230.1/9

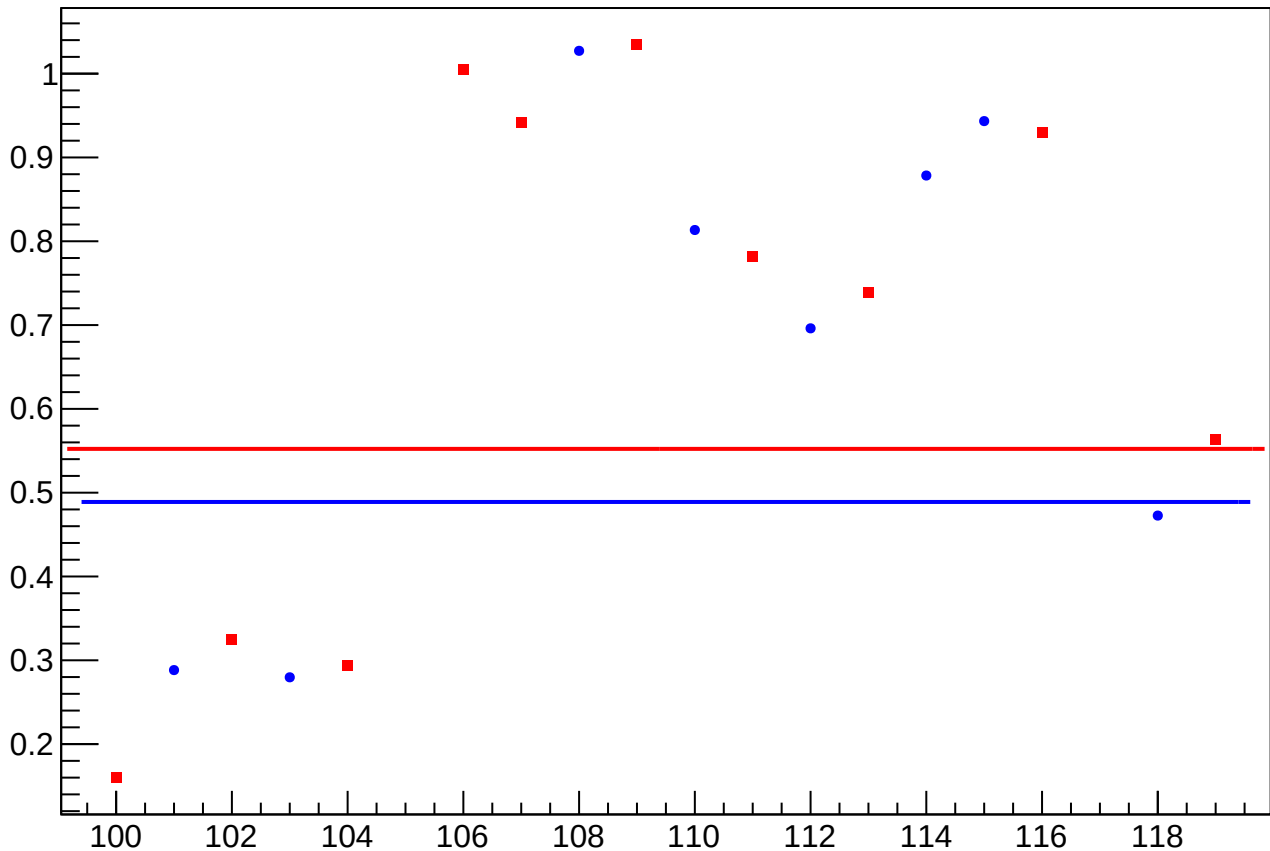
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 269279.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02Y\_mean vs Slug



Right In: 0.489+/-0.000  $\chi^2/\text{NDF}$ : 3596685332.9/7

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

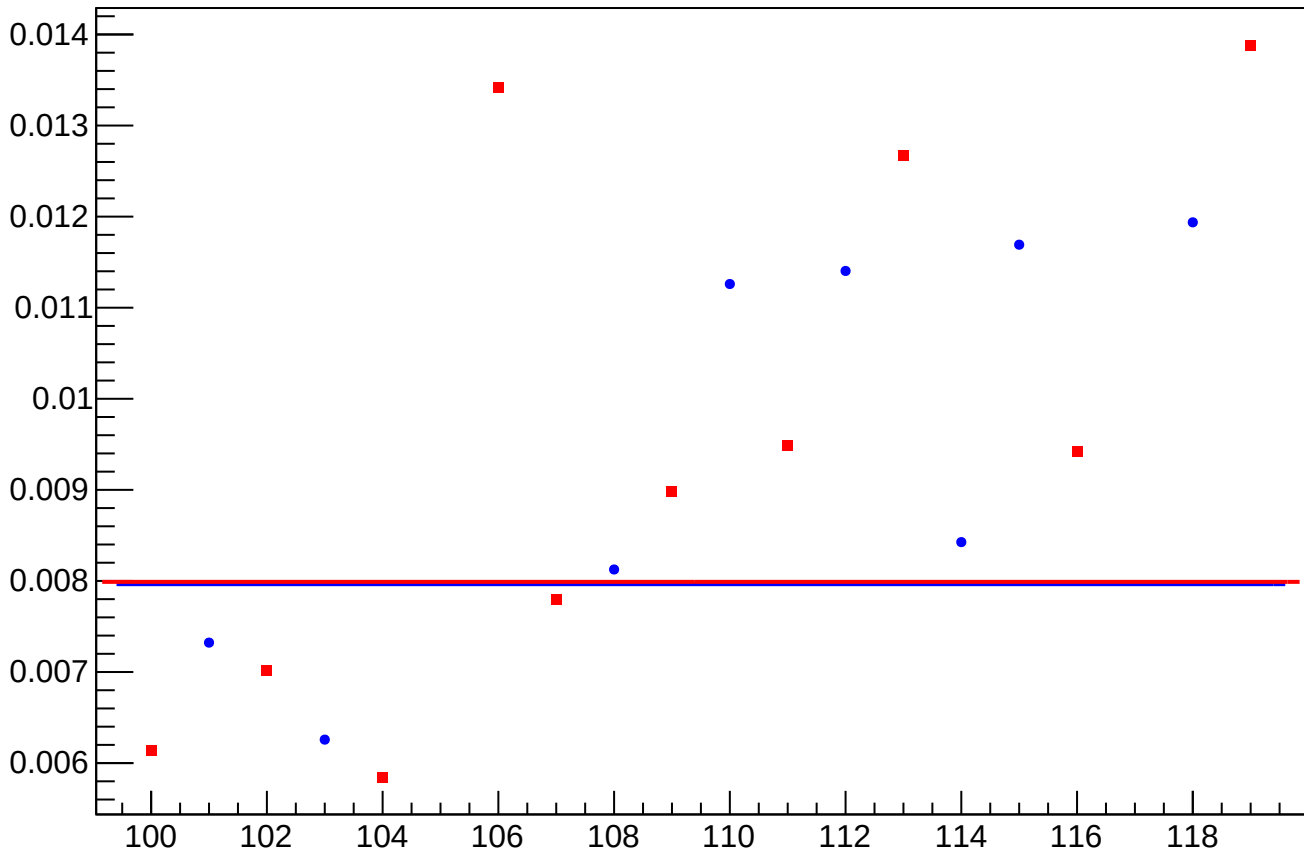
Right Out: 0.552+/-0.000  $\chi^2/\text{NDF}$ : 4789359302.3/9

All: 0.524+/-0.000  $\chi^2/\text{NDF}$ : 8480012962.1/17

- 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\_bpm0l02Y\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 321024.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 544715.7/9

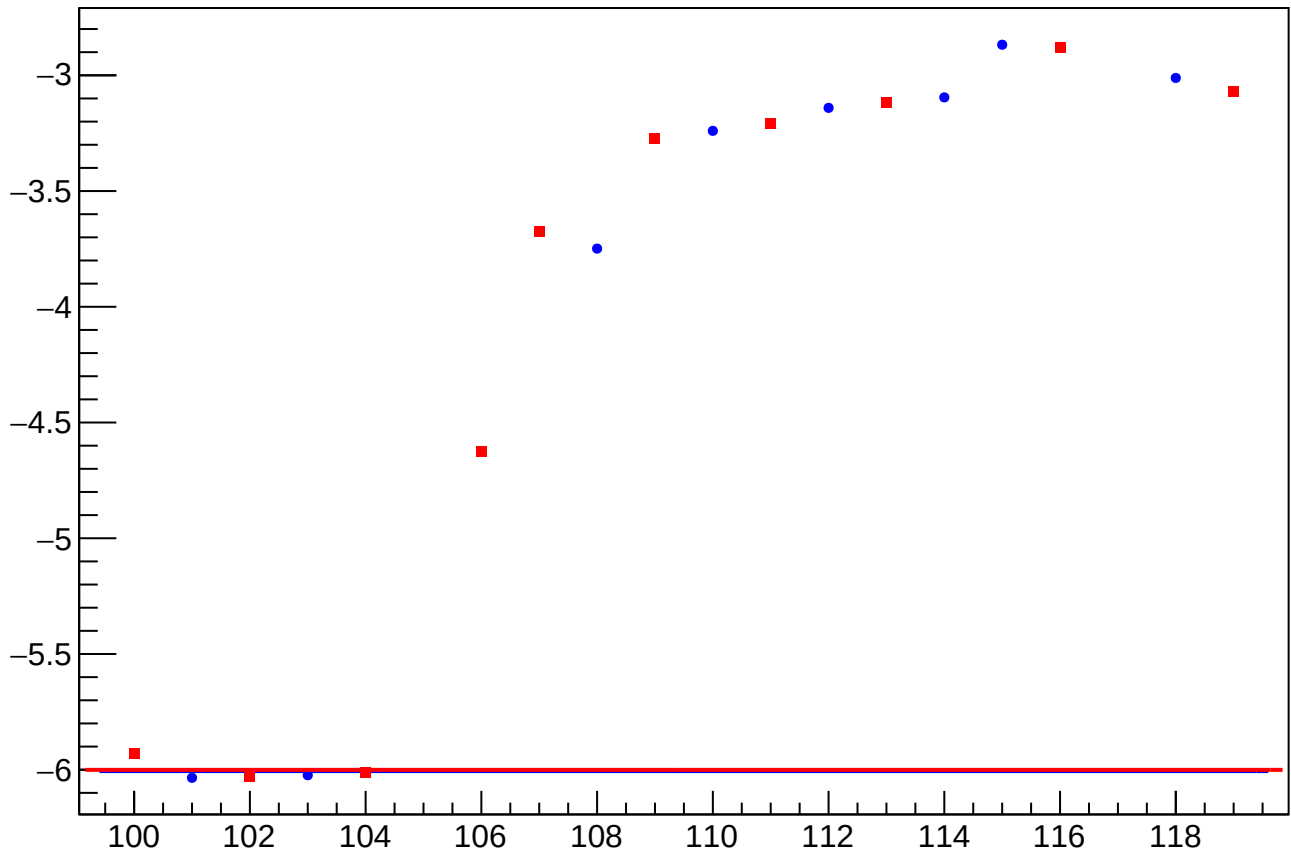
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 865769.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03X\_mean vs Slug



Right In: -6.006+/-0.000  $\chi^2/\text{NDF}$ : 2934672438.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.001+/-0.000  $\chi^2/\text{NDF}$ : 2183307023.8/9

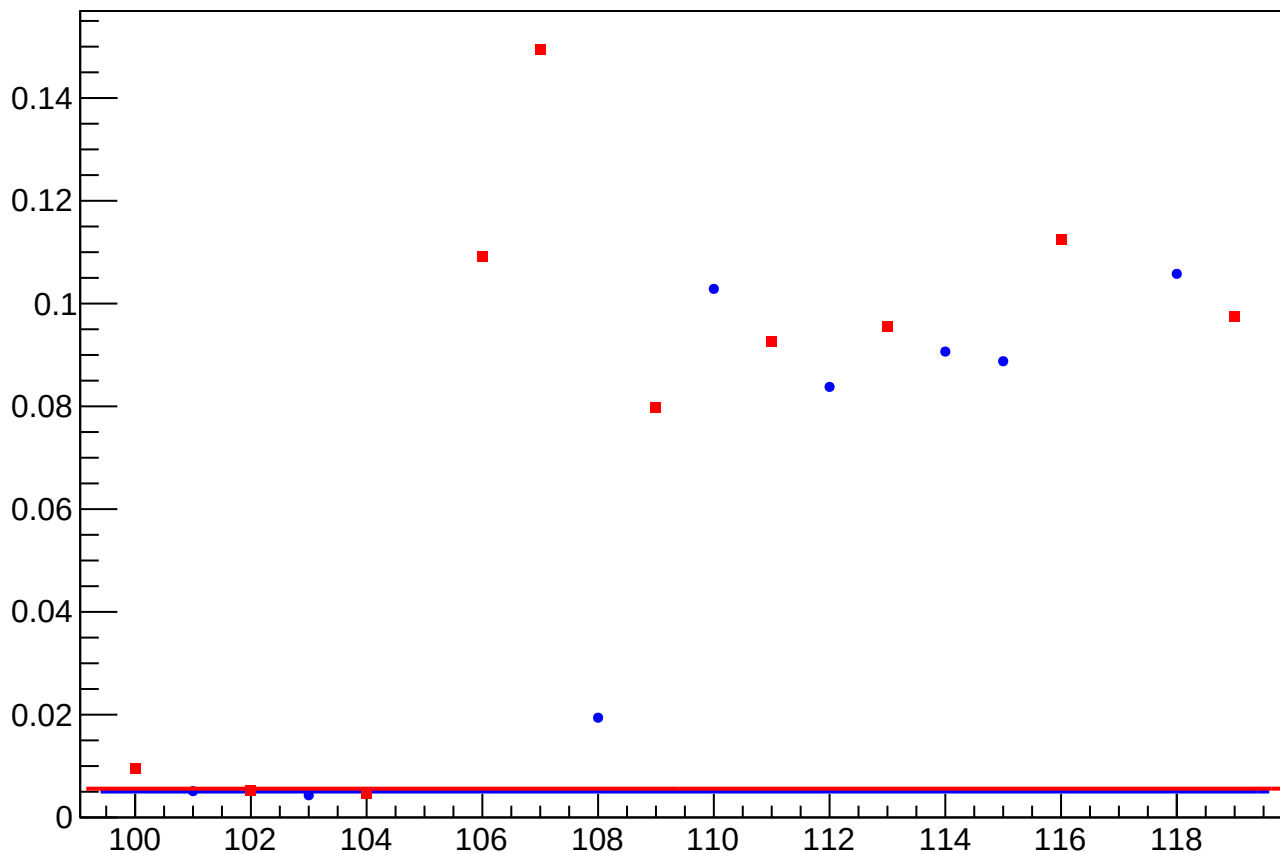
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.003+/-0.000  $\chi^2/\text{NDF}$ : 5118634938.2/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03X\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2927169.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 4822995.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

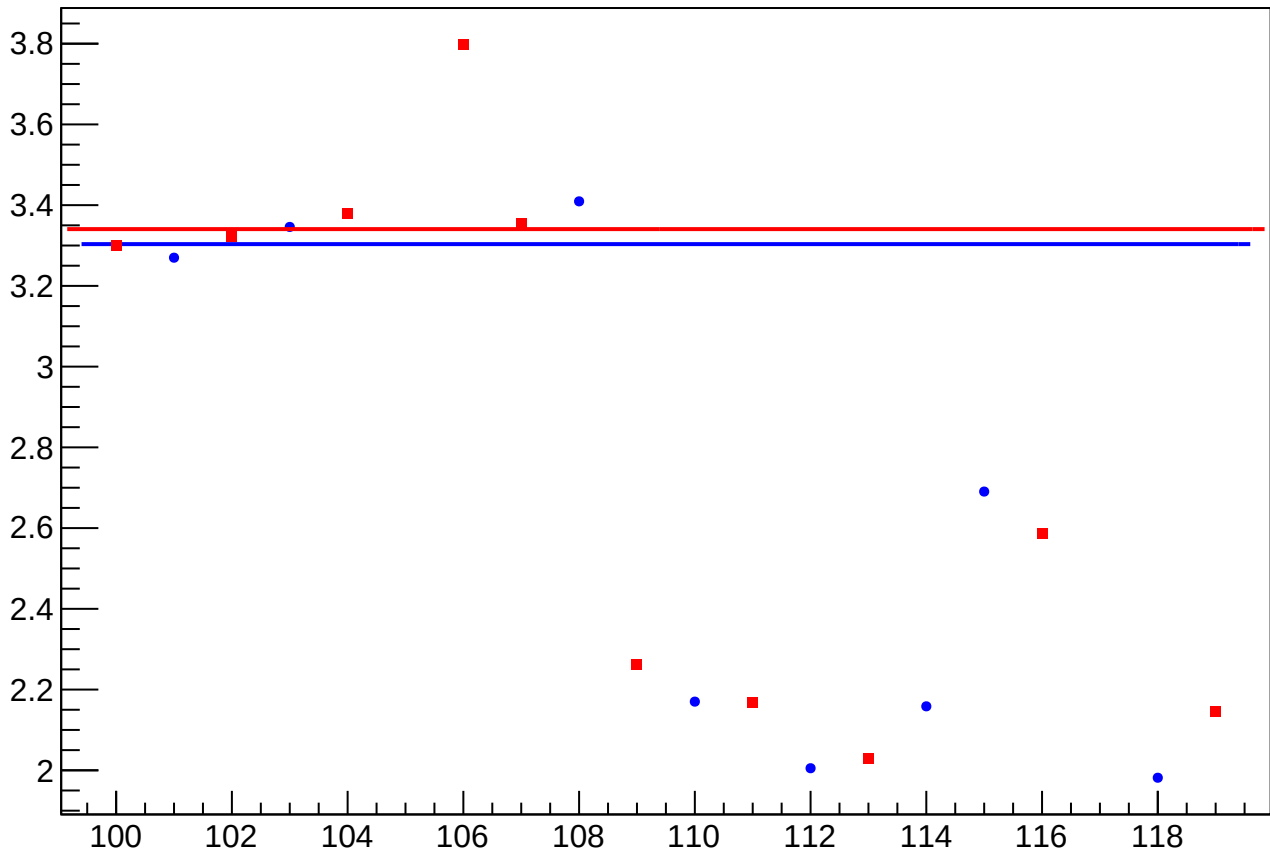
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 7764377.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l03Y\_mean vs Slug



Right In: 3.303 $\pm$ 0.000  $\chi^2$ /NDF: 279983180.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3.341 $\pm$ 0.000  $\chi^2$ /NDF: 347805021.5/9

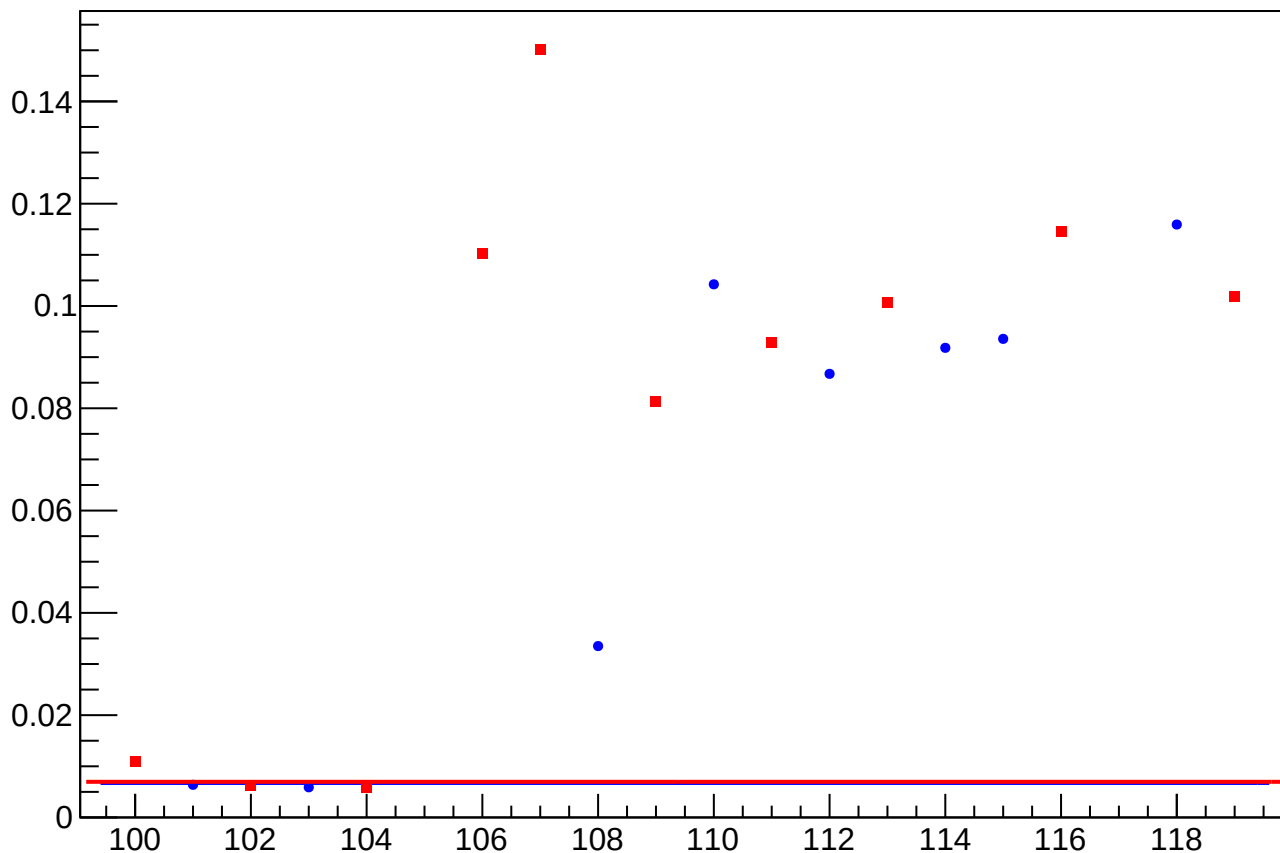
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.322 $\pm$ 0.000  $\chi^2$ /NDF: 648120930.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l03Y\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 2933993.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 4691308.8/9

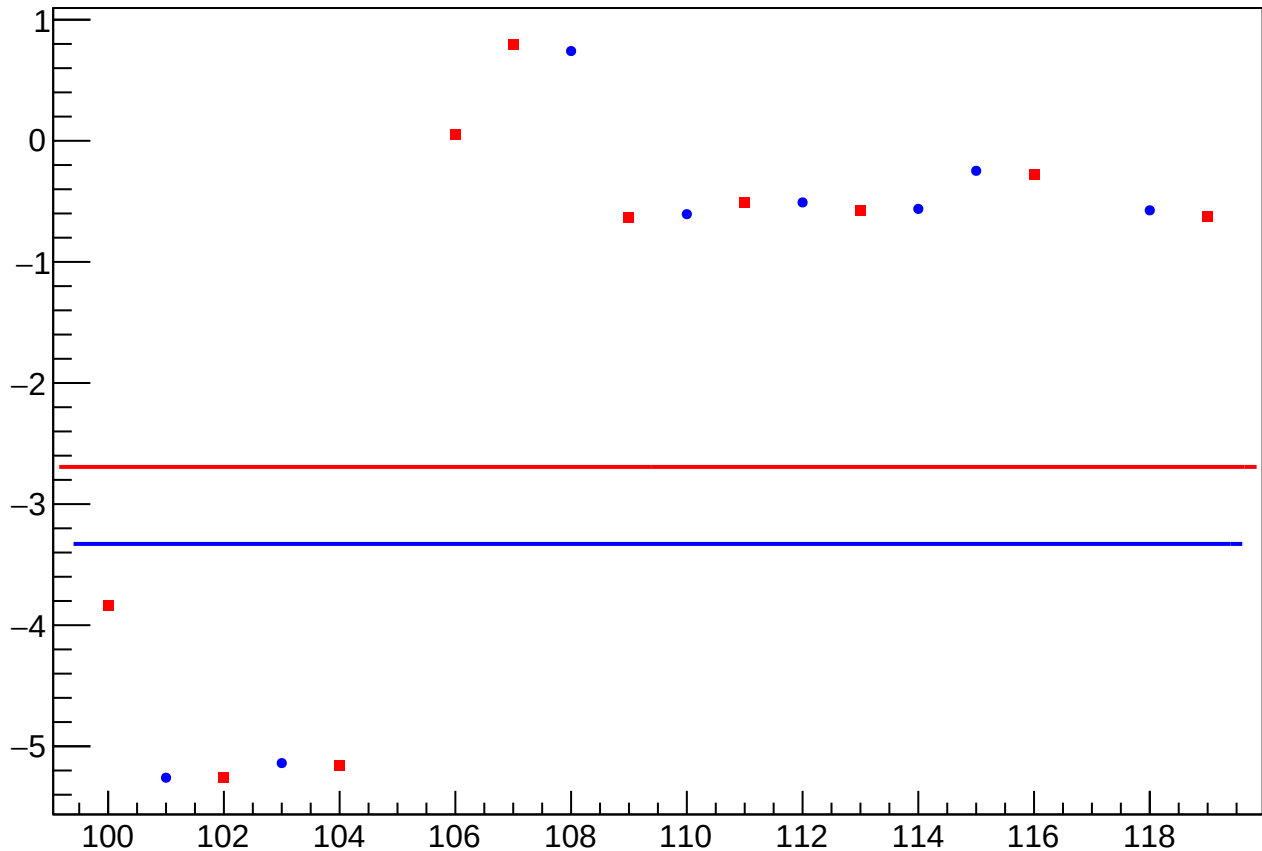
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 7626775.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04X\_mean vs Slug



Right In: -3.329+/-0.000  $\chi^2/\text{NDF}$ : 84095927887.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.693+/-0.000  $\chi^2/\text{NDF}$ : 102851862441.9/9

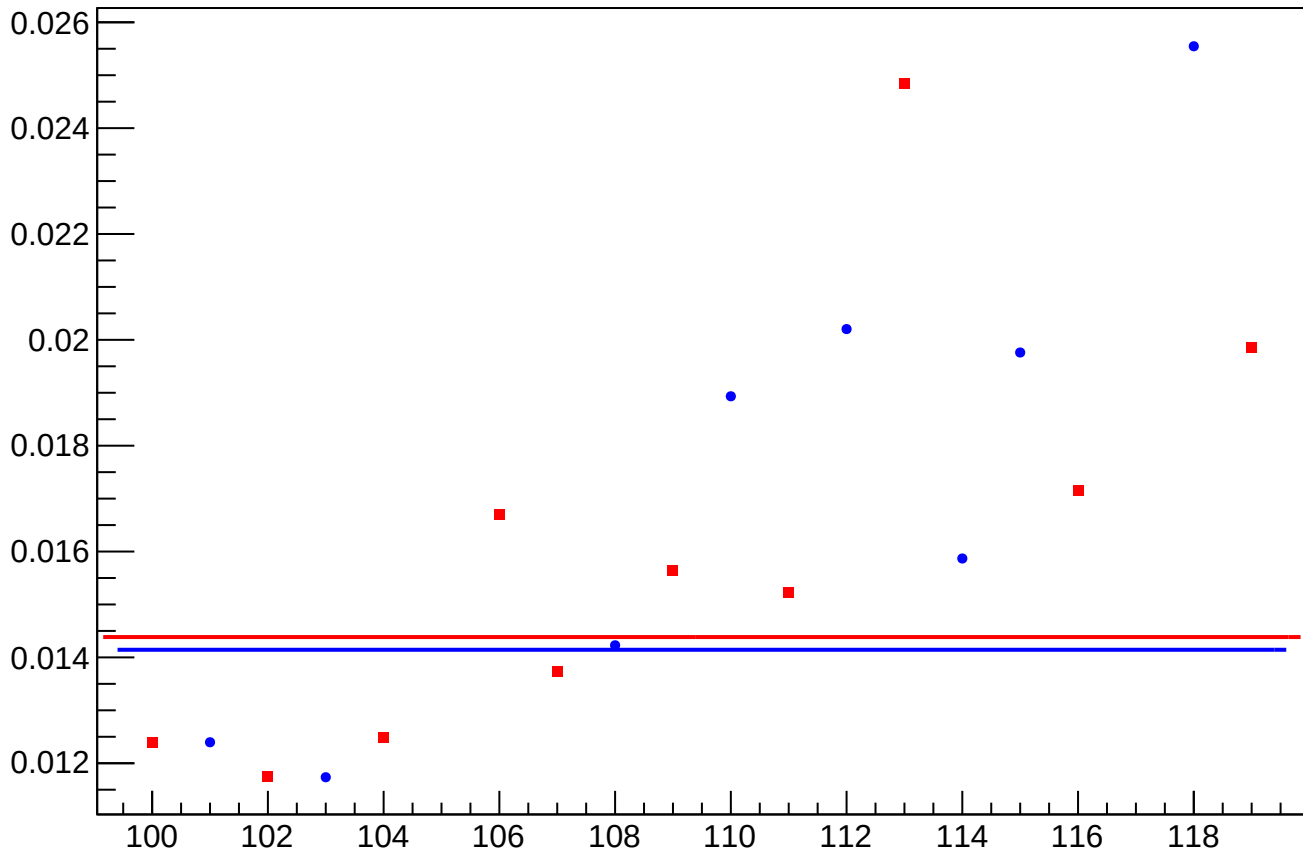
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.973+/-0.000  $\chi^2/\text{NDF}$ : 189957667316.1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04X\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 338425.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 307078.3/9

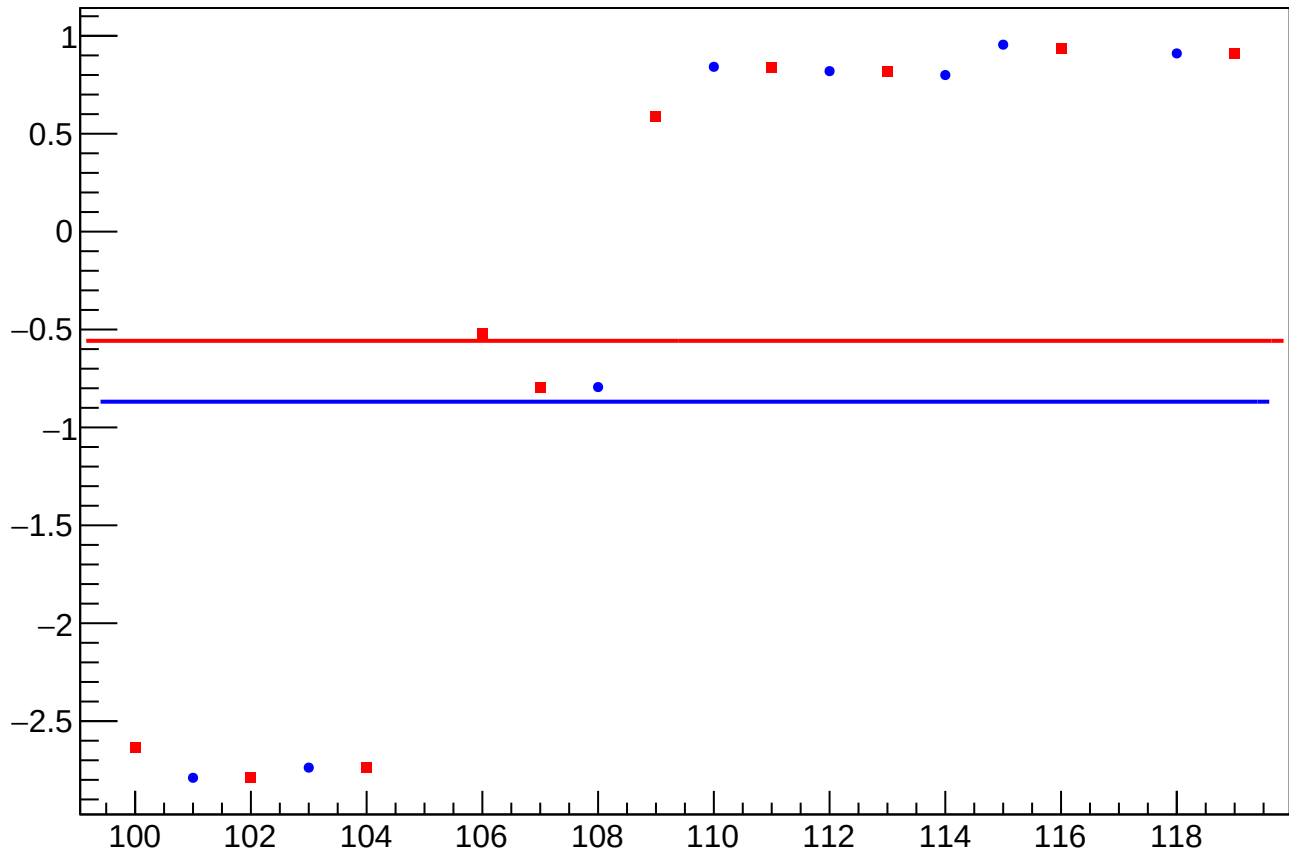
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 646364.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04Y\_mean vs Slug



Right In: -0.869+/-0.000  $\chi^2/\text{NDF}$ : 548066435966.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.558+/-0.000  $\chi^2/\text{NDF}$ : 708976953270.1/9

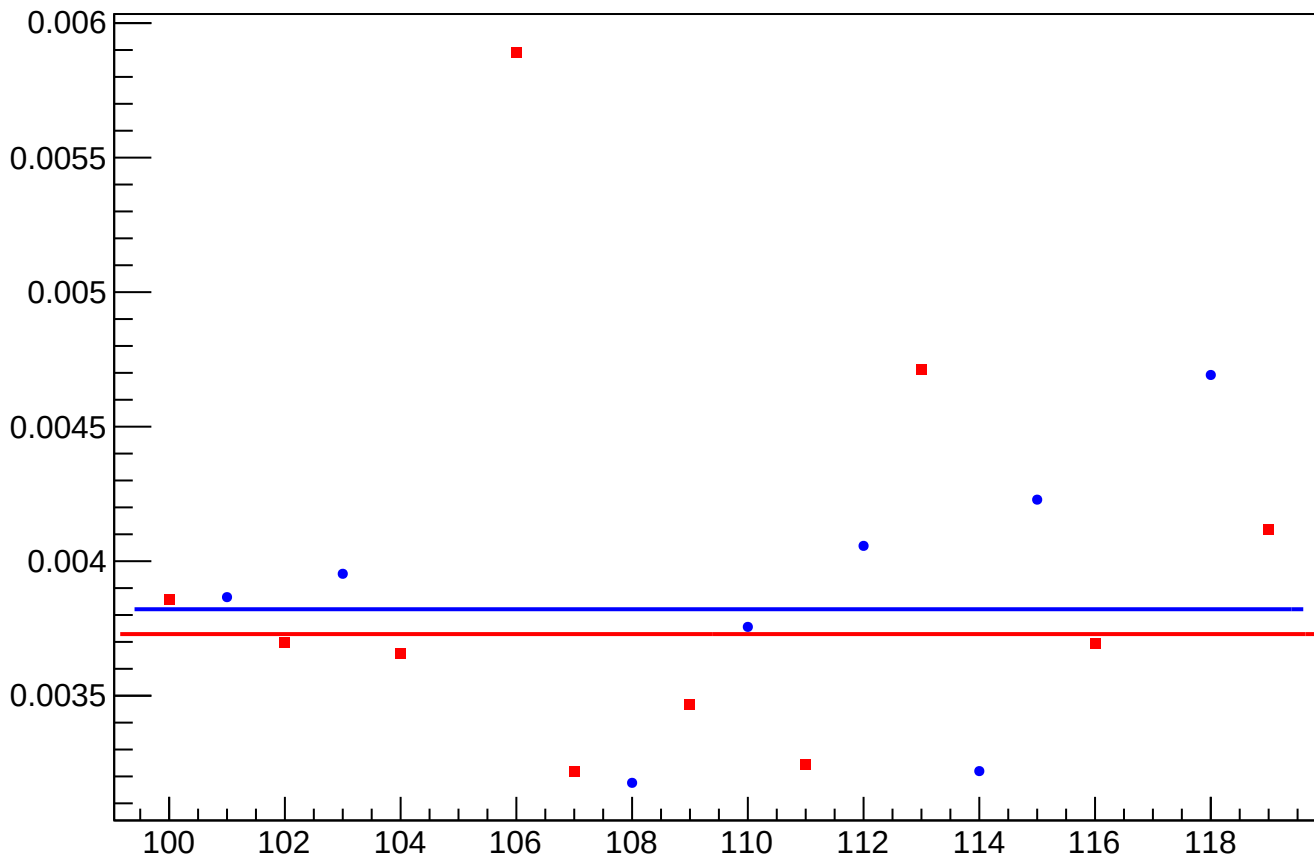
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.692+/-0.000  $\chi^2/\text{NDF}$ : 1268358277920

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 77755.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 157797.1/9

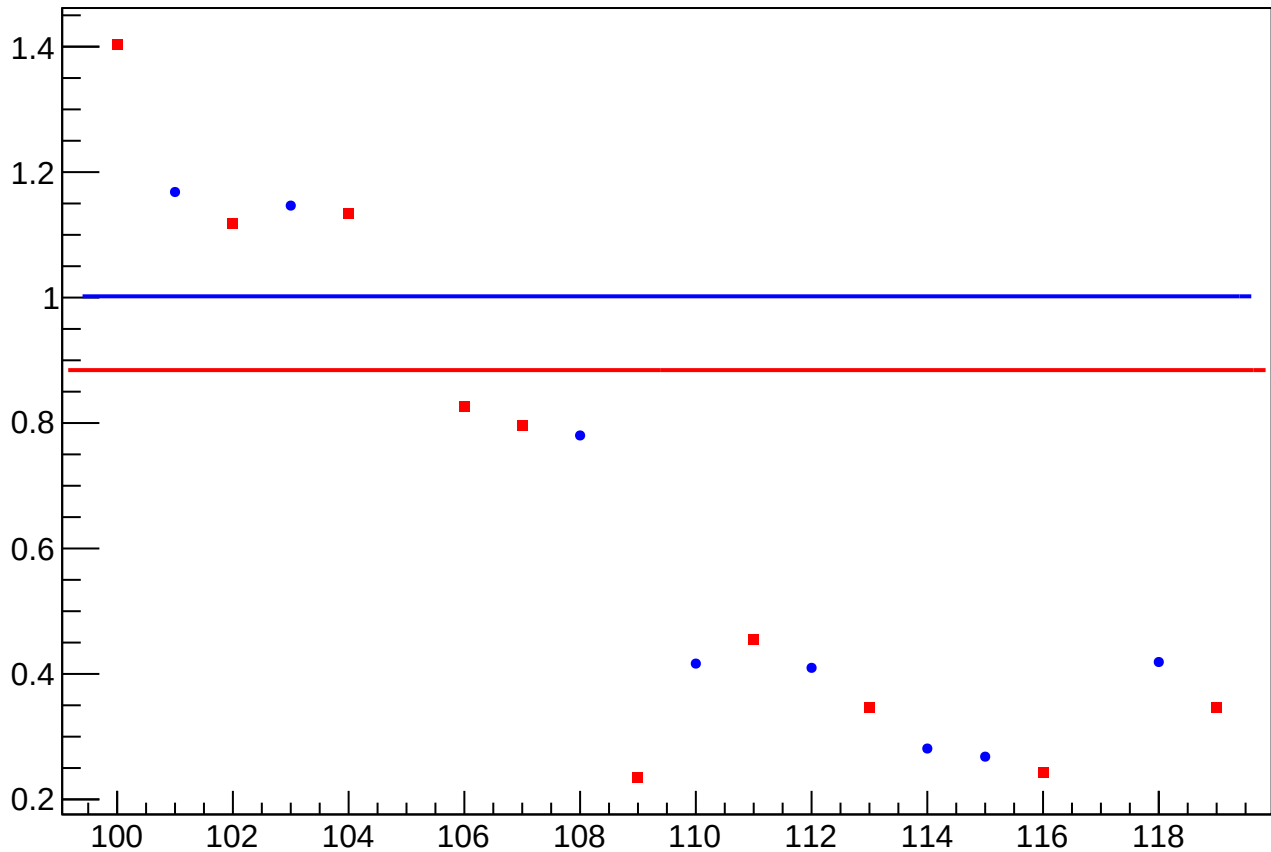
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 237549.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l05X\_mean vs Slug



Right In: 1.002 $\pm$ 0.000  $\chi^2$ /NDF: 7880353842.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.884 $\pm$ 0.000  $\chi^2$ /NDF: 14104320750.4/9

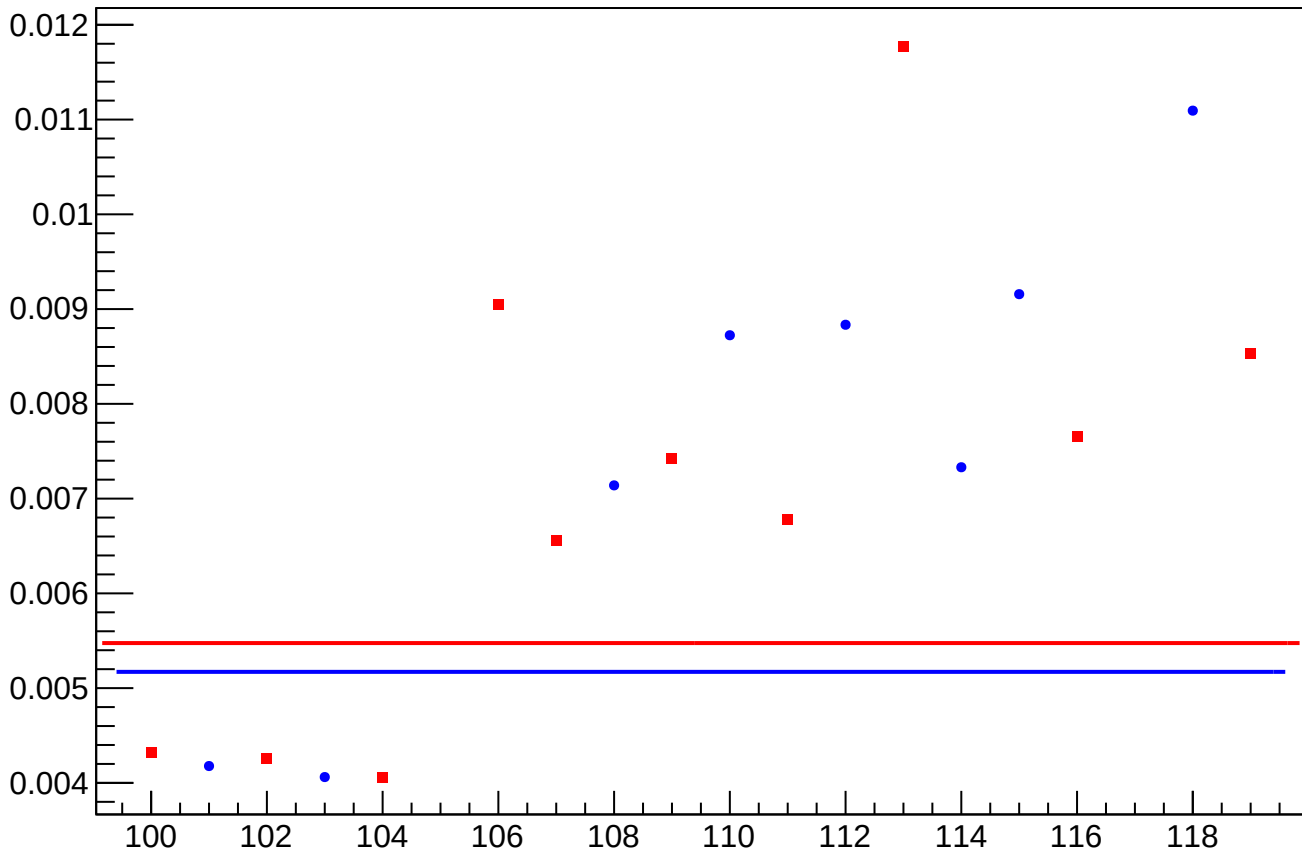
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.939 $\pm$ 0.000  $\chi^2$ /NDF: 22673876601.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l05X\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 724058.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 764832.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

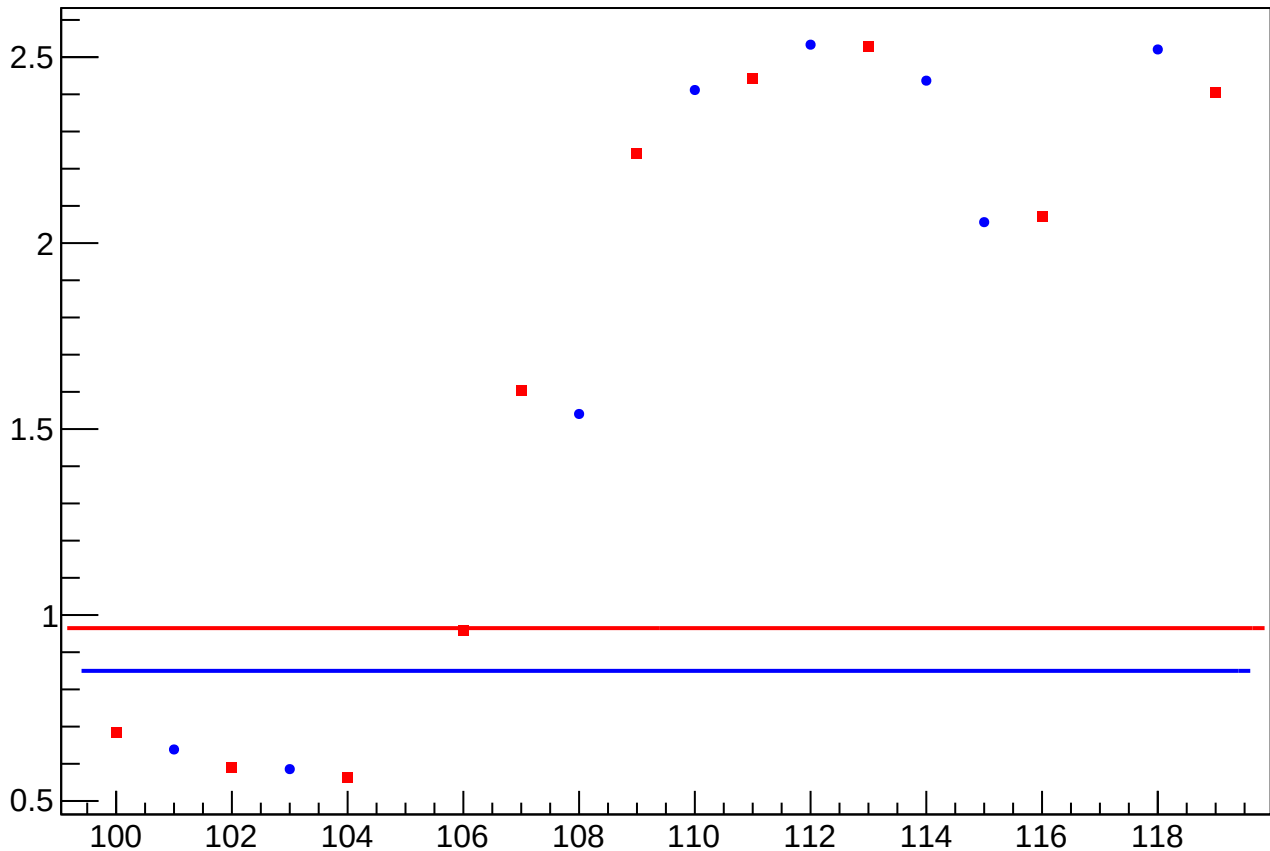
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1498083.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l05Y\_mean vs Slug



Right In: 0.850+/-0.000  $\chi^2/\text{NDF}$ : 34522522465.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.965+/-0.000  $\chi^2/\text{NDF}$ : 57090950284.1/9

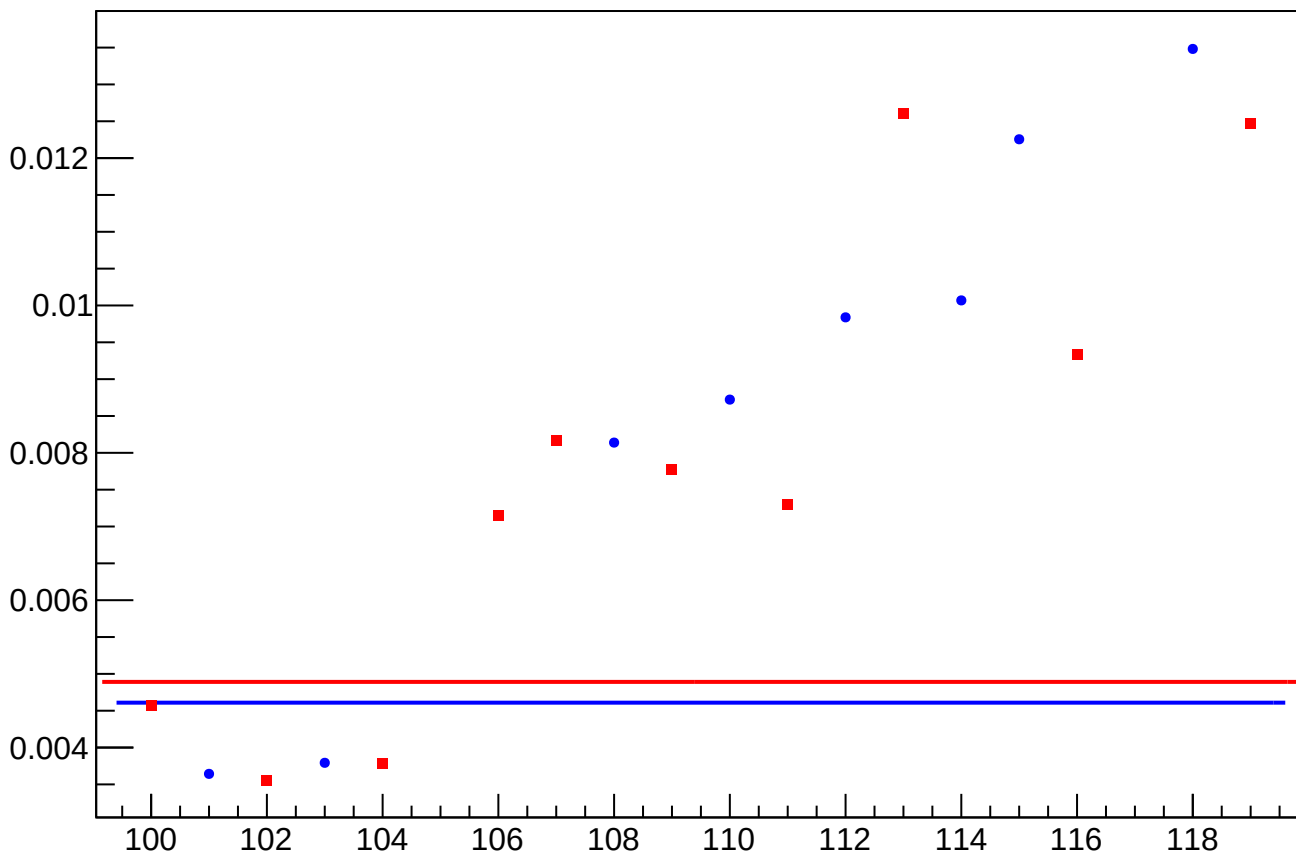
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.911+/-0.000  $\chi^2/\text{NDF}$ : 92339077906.3/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l05Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 999242.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1198070.2/9

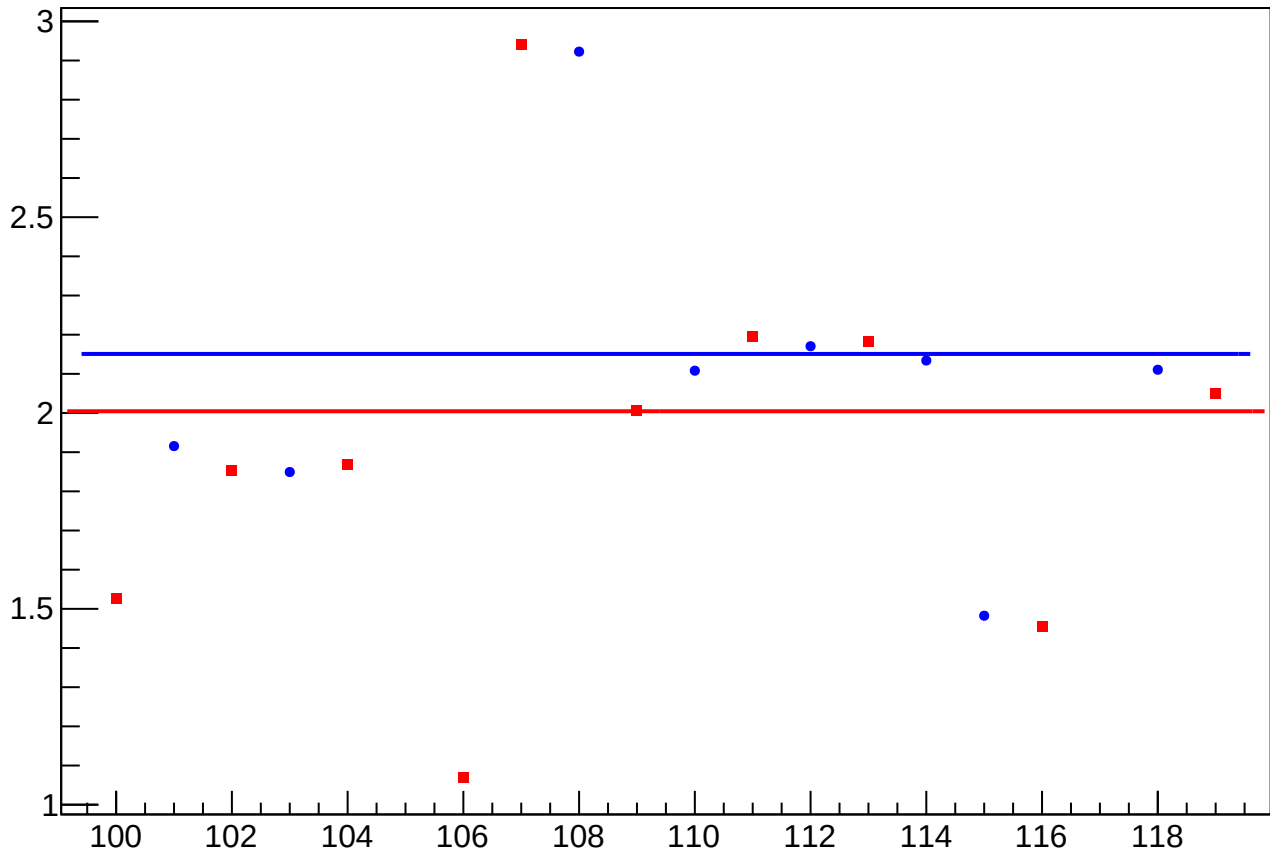
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2206047.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06X\_mean vs Slug



Right In: 2.151+/-0.000  $\chi^2/\text{NDF}$ : 9001975643.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.005+/-0.000  $\chi^2/\text{NDF}$ : 13162677848.8/9

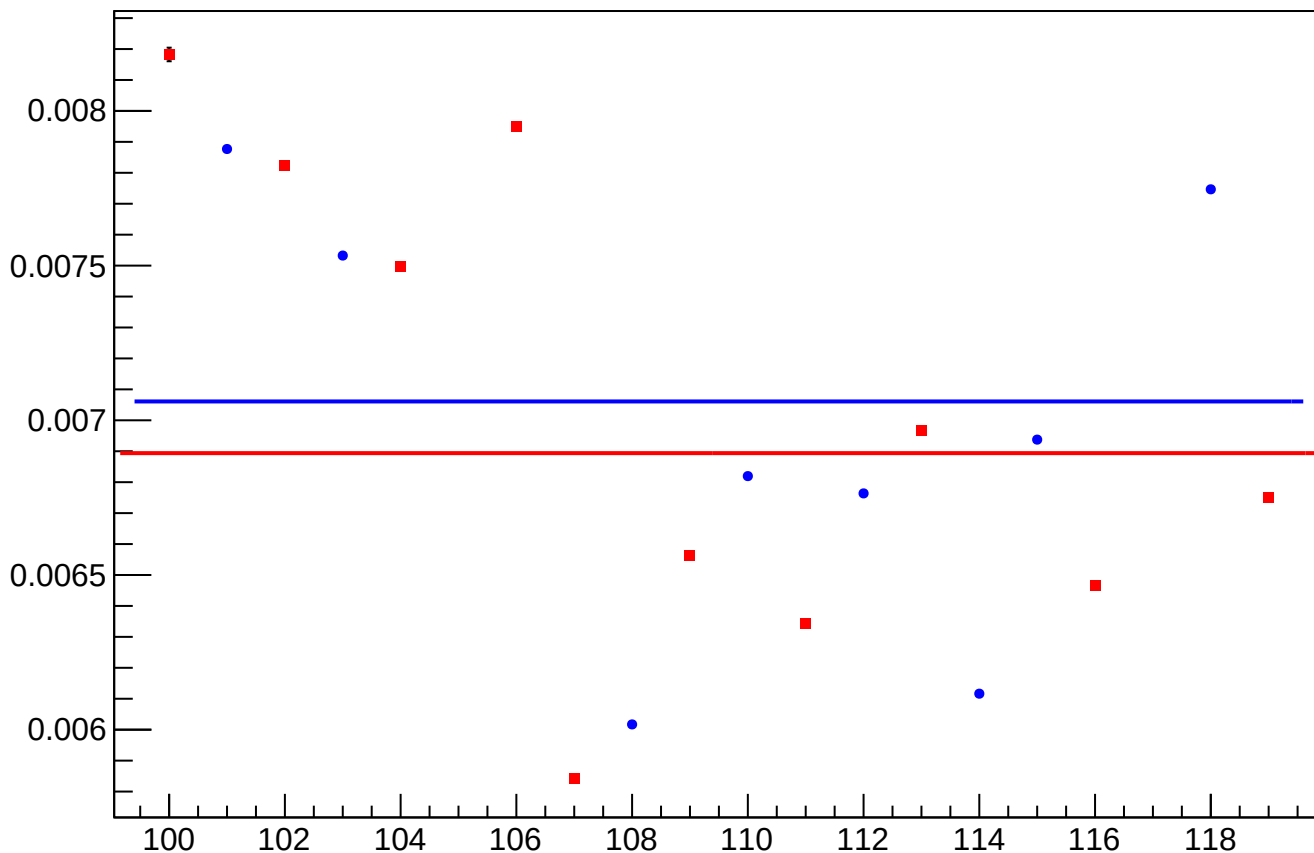
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.068+/-0.000  $\chi^2/\text{NDF}$ : 22922751683.5/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06X\_rms vs Slug



Right In: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 56264.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 65048.2/9

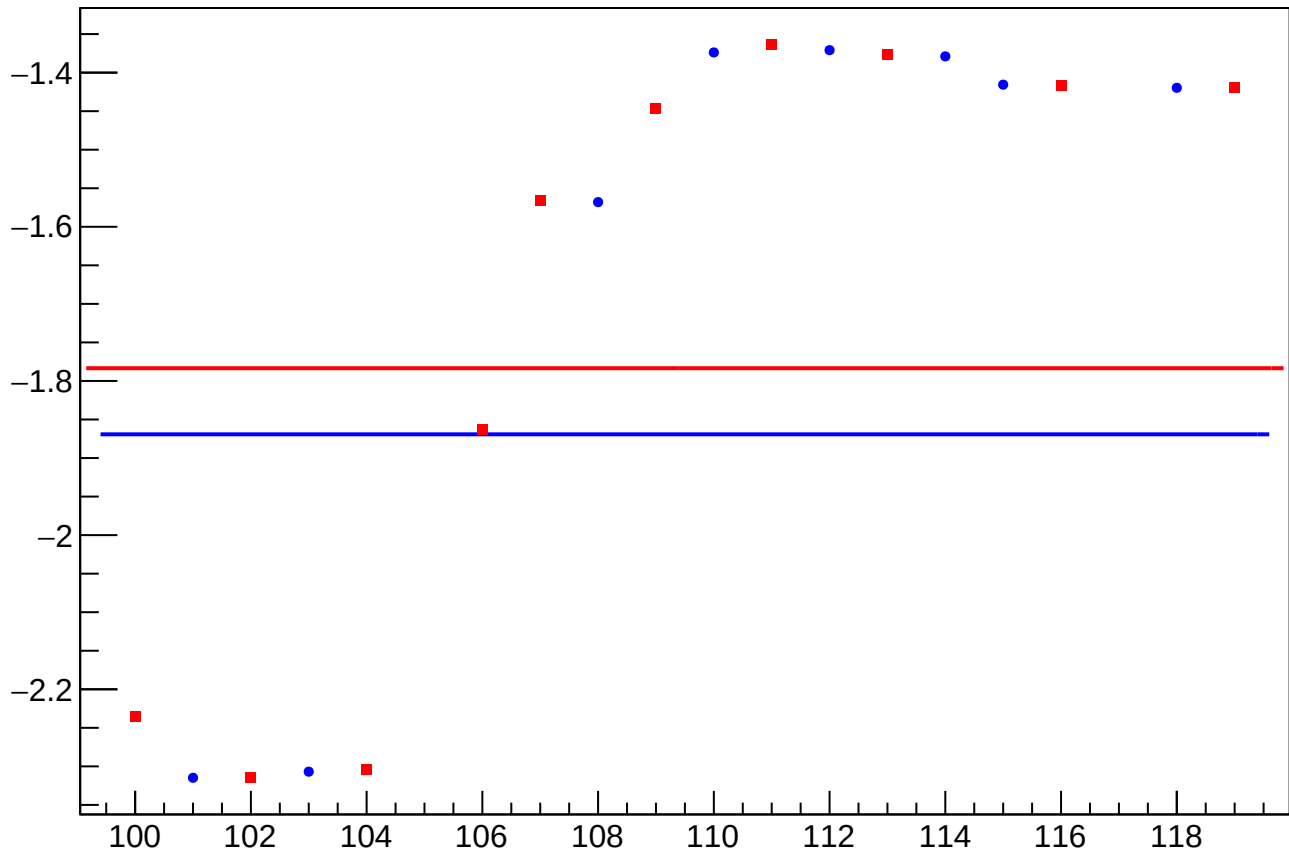
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 123288.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l06Y\_mean vs Slug



Right In: -1.869+/-0.000  $\chi^2/\text{NDF}$ : 82003059099.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.783+/-0.000  $\chi^2/\text{NDF}$ : 95932042174.9/9

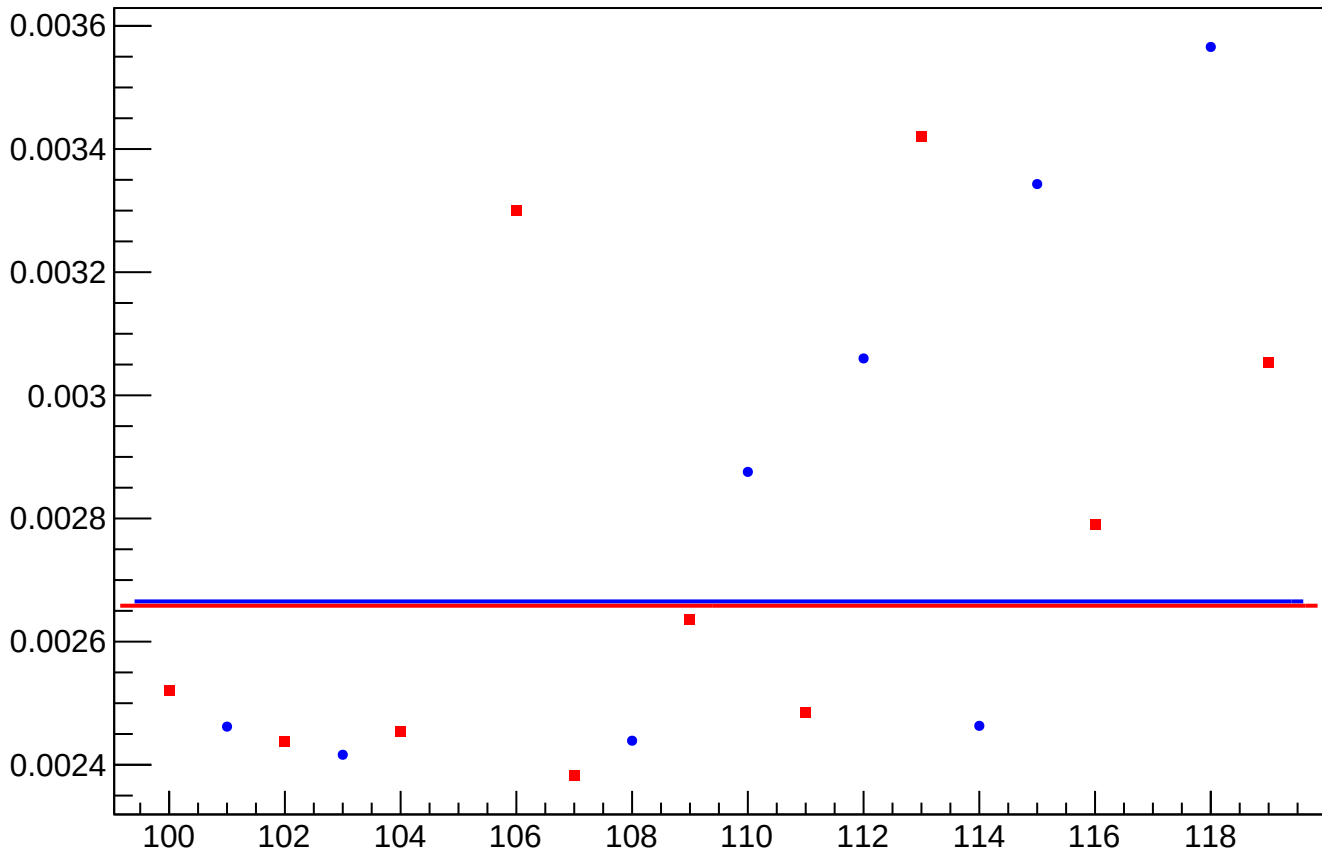
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.821+/-0.000  $\chi^2/\text{NDF}$ : 179683642337.8

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06Y\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 115836.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 107922.0/9

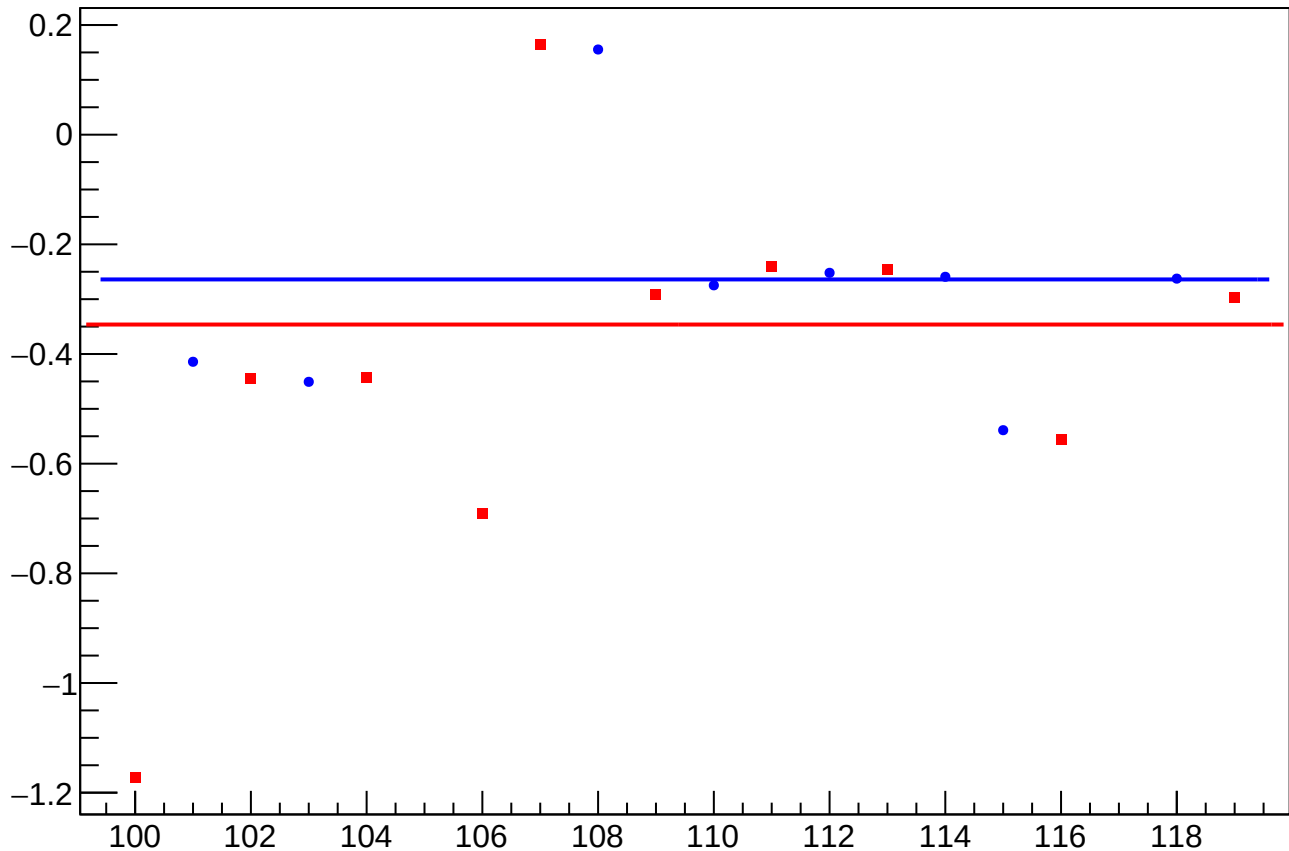
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 223781.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07X\_mean vs Slug



Right In: -0.264+/-0.000  $\chi^2/\text{NDF}$ : 943120397.6/7

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

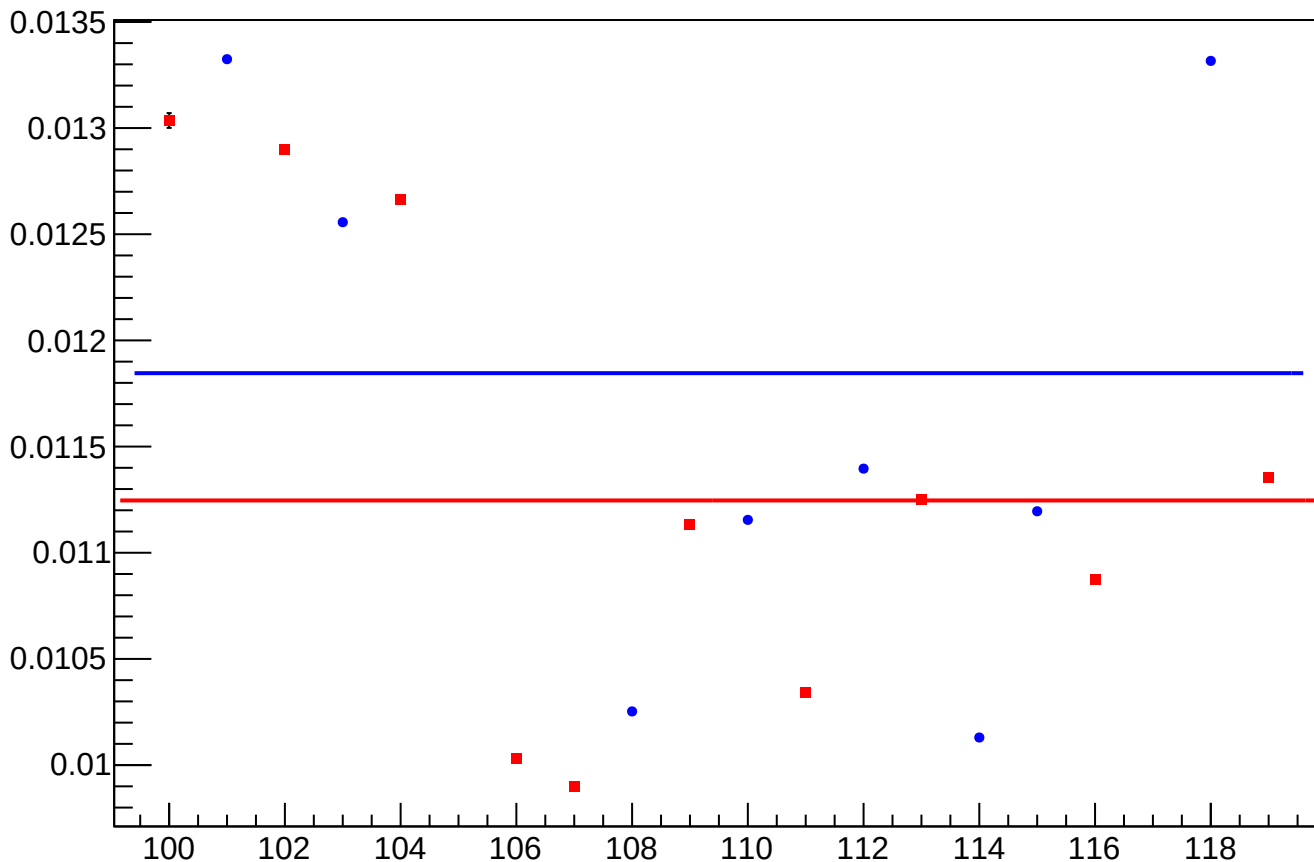
Right Out: -0.346+/-0.000  $\chi^2/\text{NDF}$ : 1537664682.5/9

All: -0.312+/-0.000  $\chi^2/\text{NDF}$ : 2569900861.4/1

- 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\_bpm0l07X\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 61991.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 61379.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

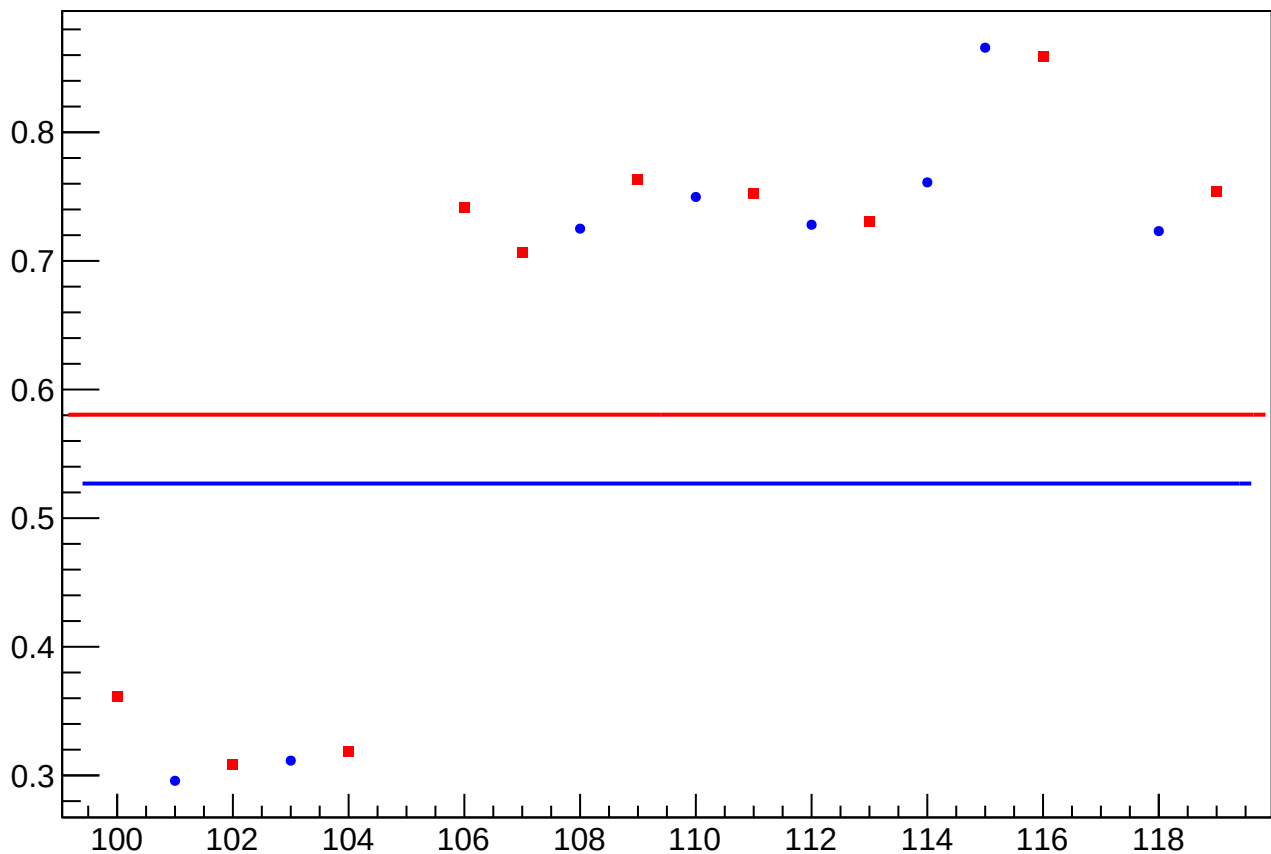
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 132836.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l07Y\_mean vs Slug



Right In: 0.527+/-0.000  $\chi^2/\text{NDF}$ : 21089223148.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.580+/-0.000  $\chi^2/\text{NDF}$ : 24773448871.8/9

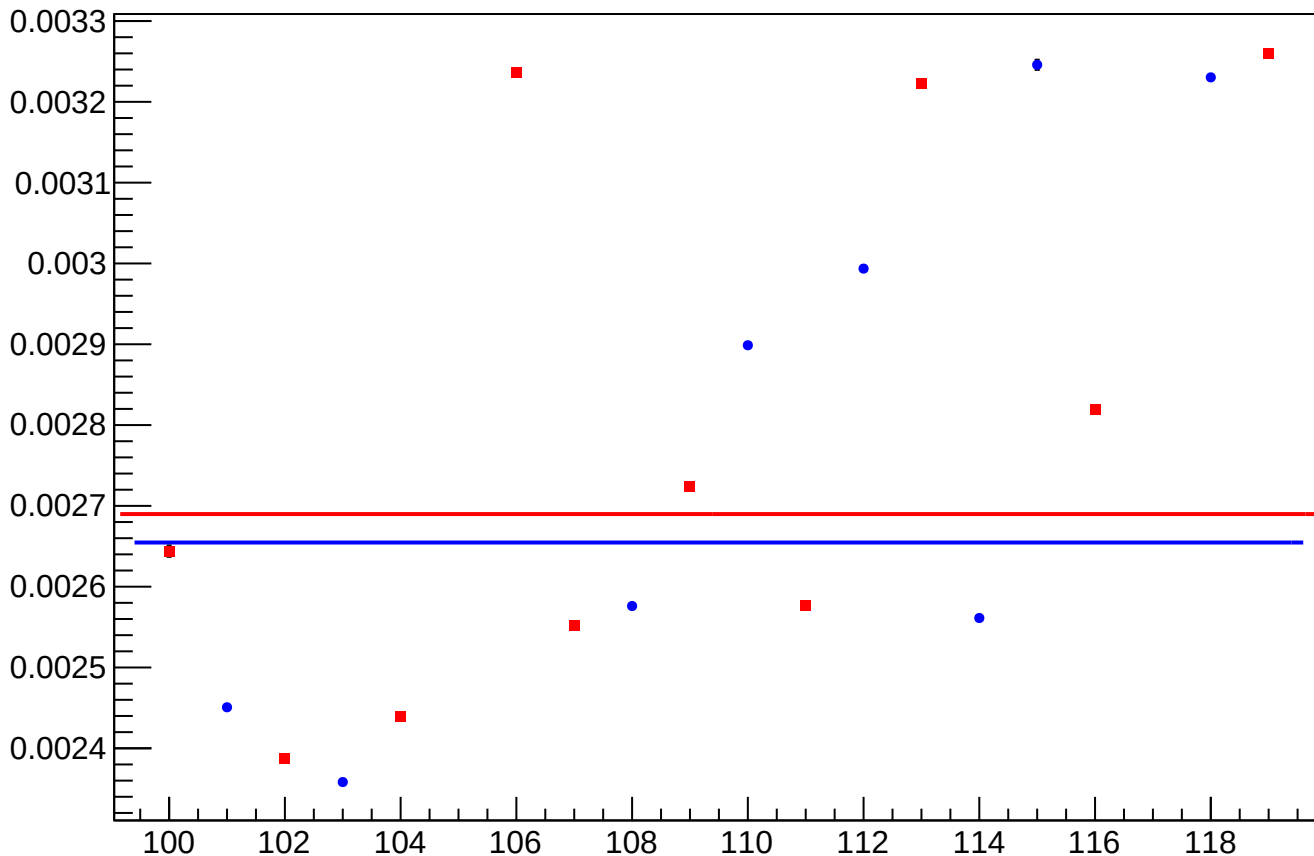
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.556+/-0.000  $\chi^2/\text{NDF}$ : 46543163456.4/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07Y\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 82837.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 103789.7/9

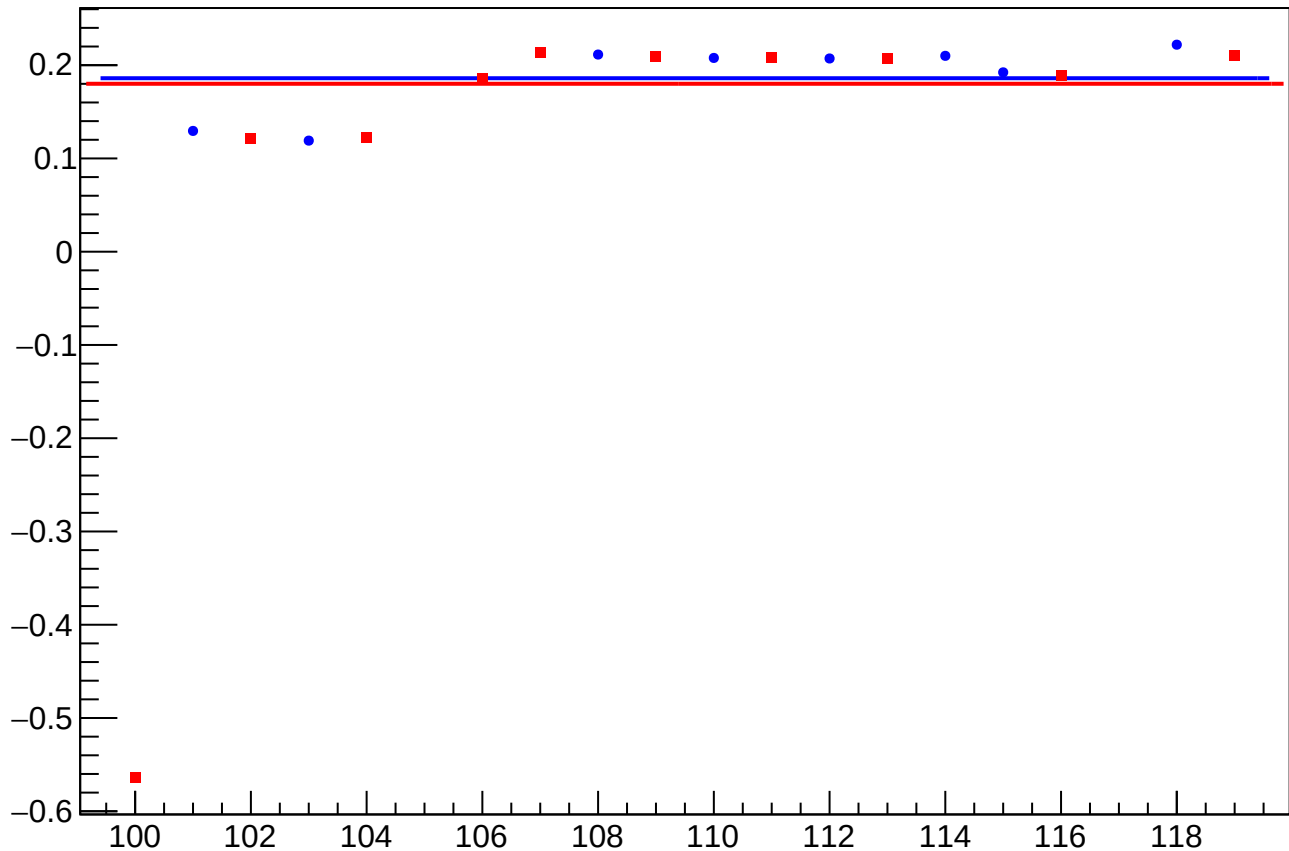
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 187215.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08X\_mean vs Slug



Right In: 0.186+/-0.000  $\chi^2/\text{NDF}$ : 45607442.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.180+/-0.000  $\chi^2/\text{NDF}$ : 329846236.8/9

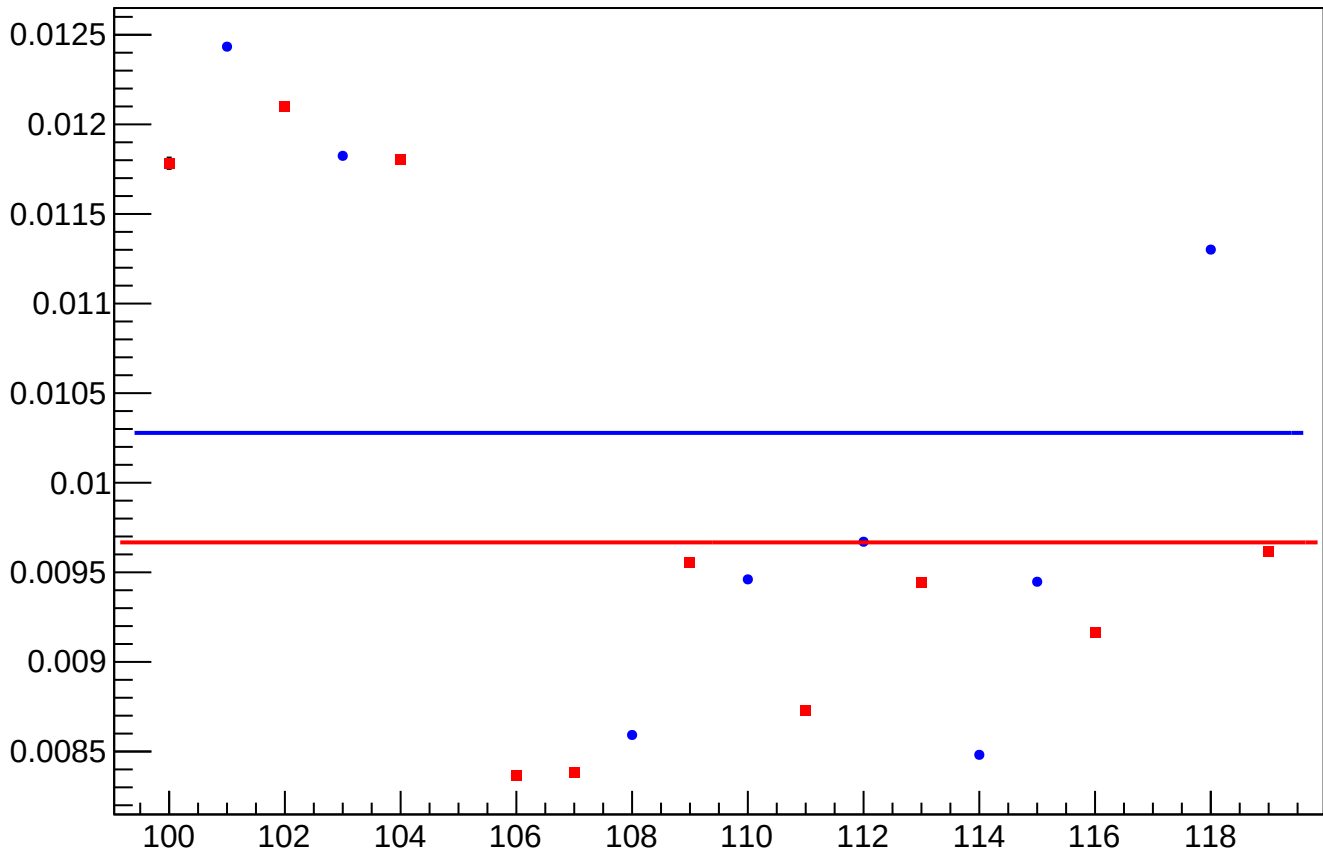
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.183+/-0.000  $\chi^2/\text{NDF}$ : 376069151.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08X\_rms vs Slug



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 117790.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 126778.8/9

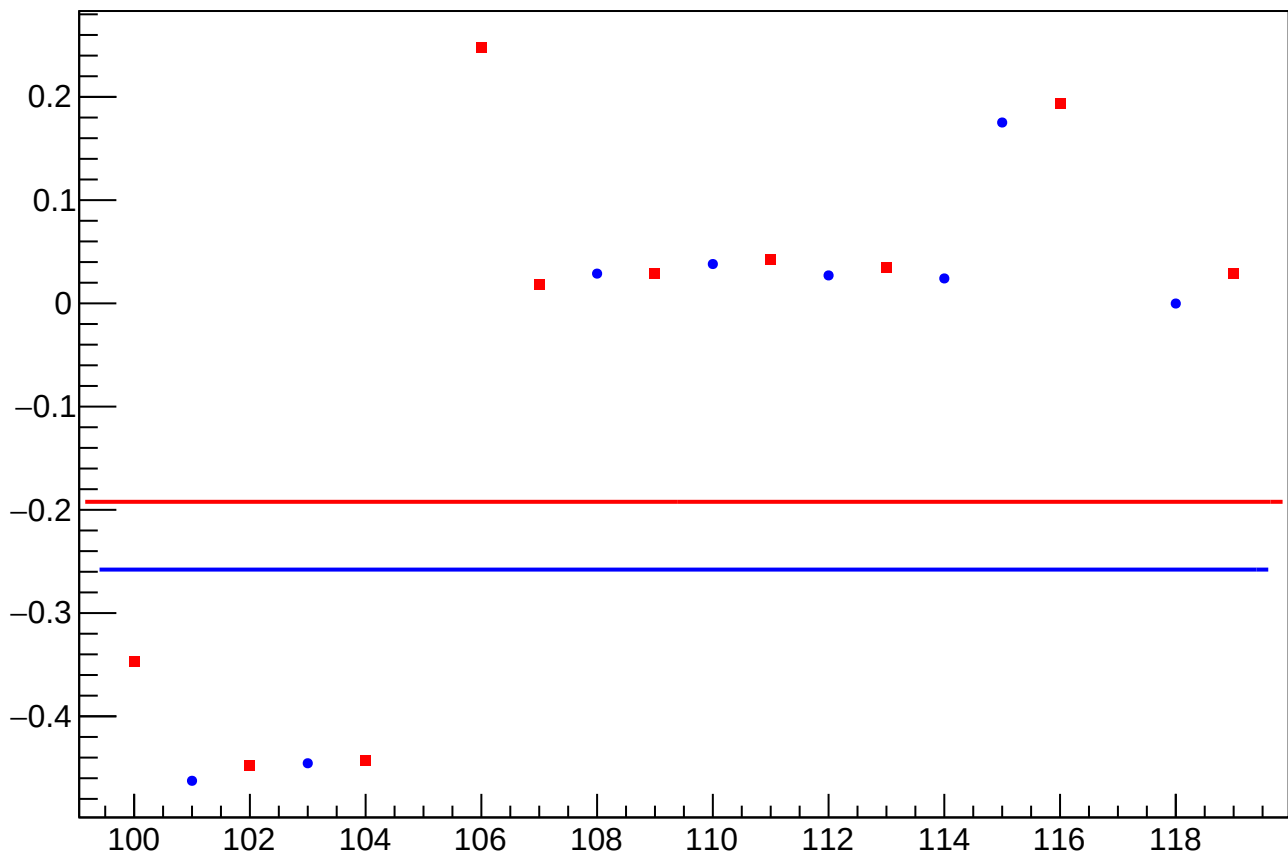
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 257590.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08Y\_mean vs Slug



Right In: -0.258+/-0.000  $\chi^2/\text{NDF}$ : 9181997315.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.192+/-0.000  $\chi^2/\text{NDF}$ : 11898733855.4/9

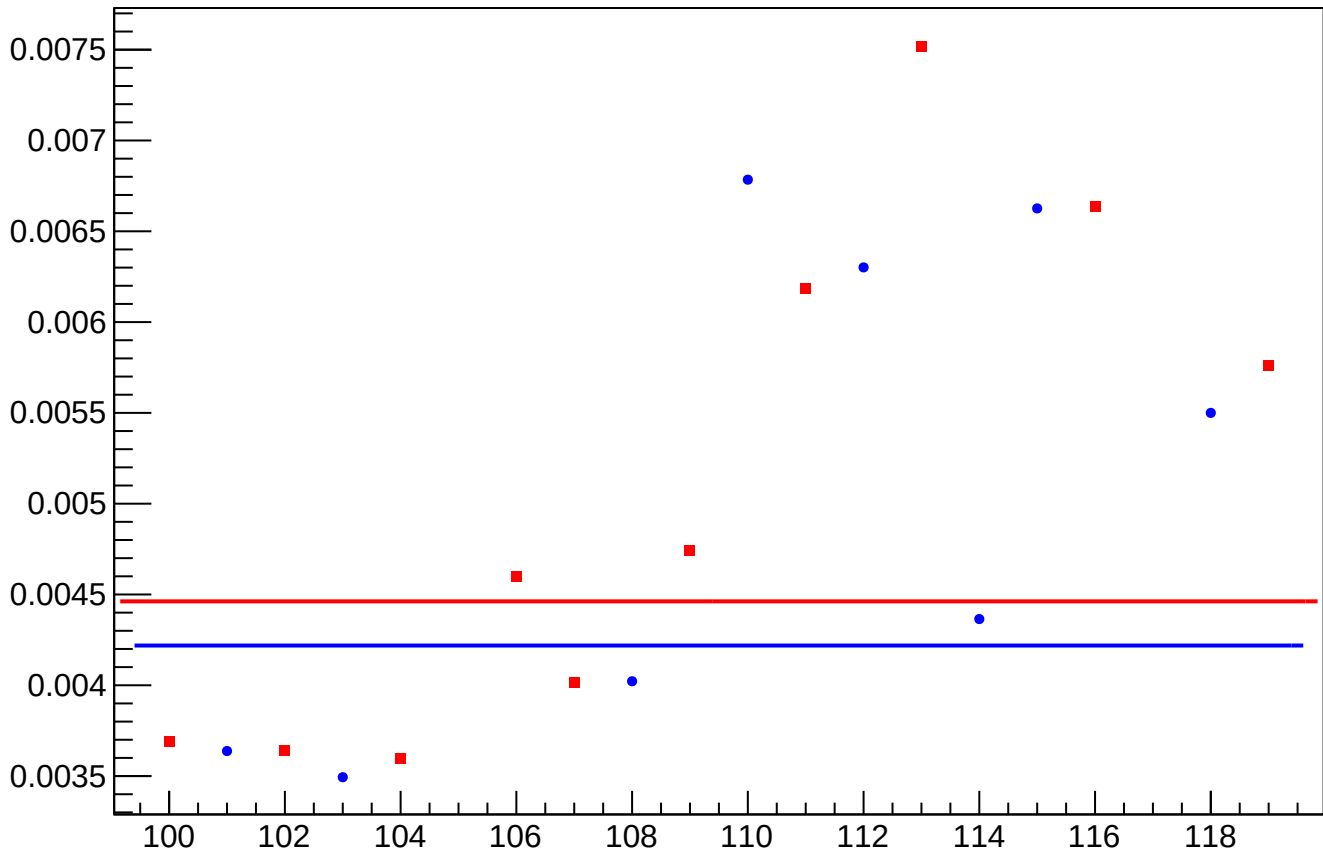
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.223+/-0.000  $\chi^2/\text{NDF}$ : 21446202033.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 356162.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 449976.3/9

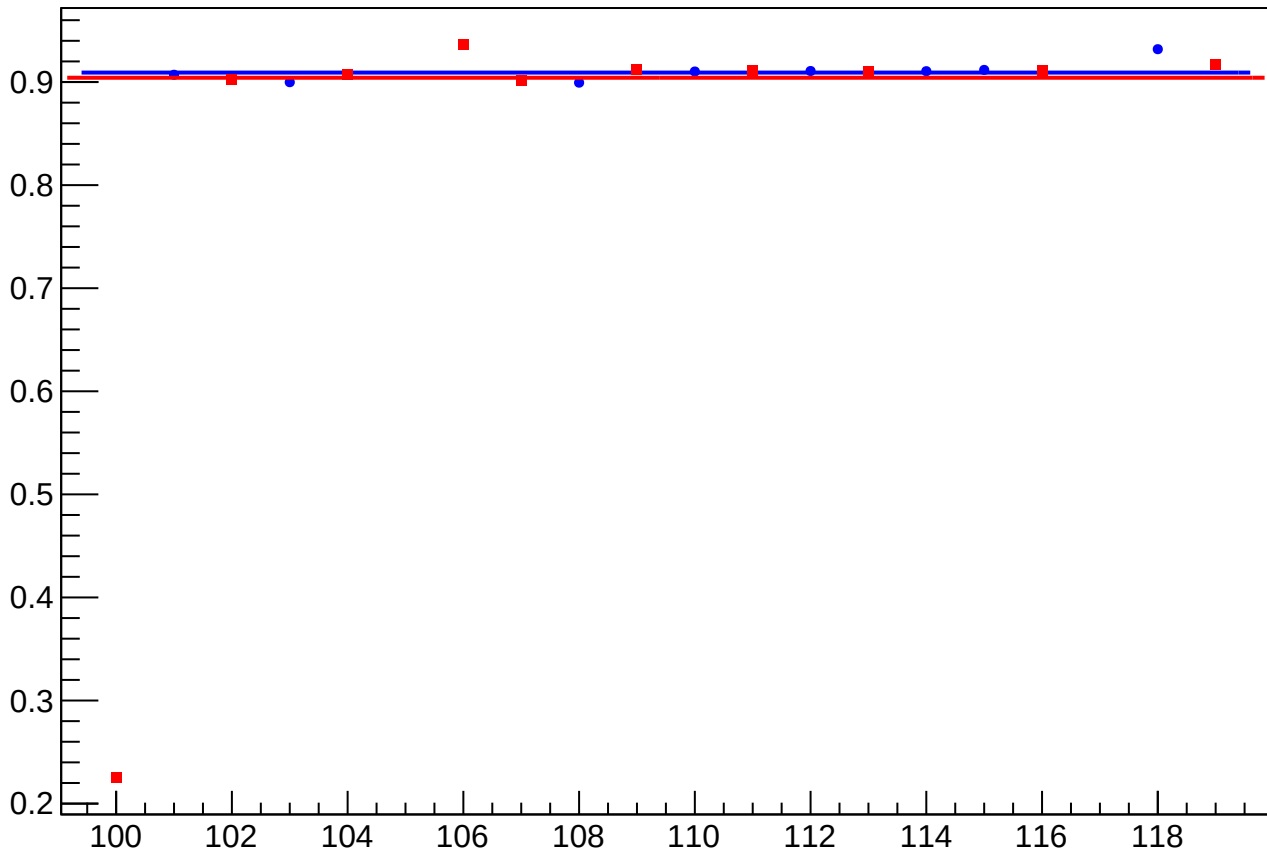
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 816171.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l09X\_mean vs Slug



Right In: 0.909 $\pm$ 0.000  $\chi^2$ /NDF: 2299609.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.904 $\pm$ 0.000  $\chi^2$ /NDF: 217618477.9/9

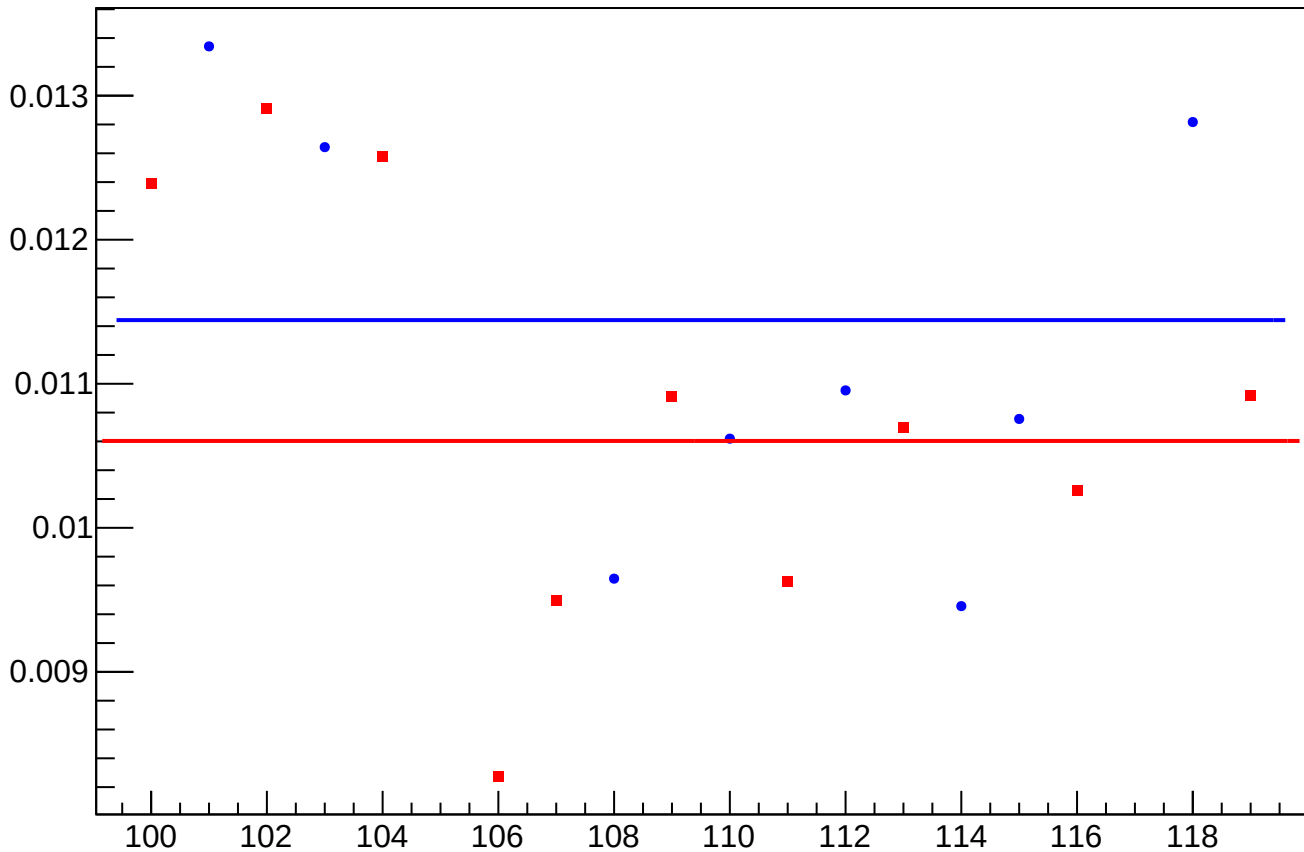
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.906 $\pm$ 0.000  $\chi^2$ /NDF: 220274327.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l09X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 91663.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 134965.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

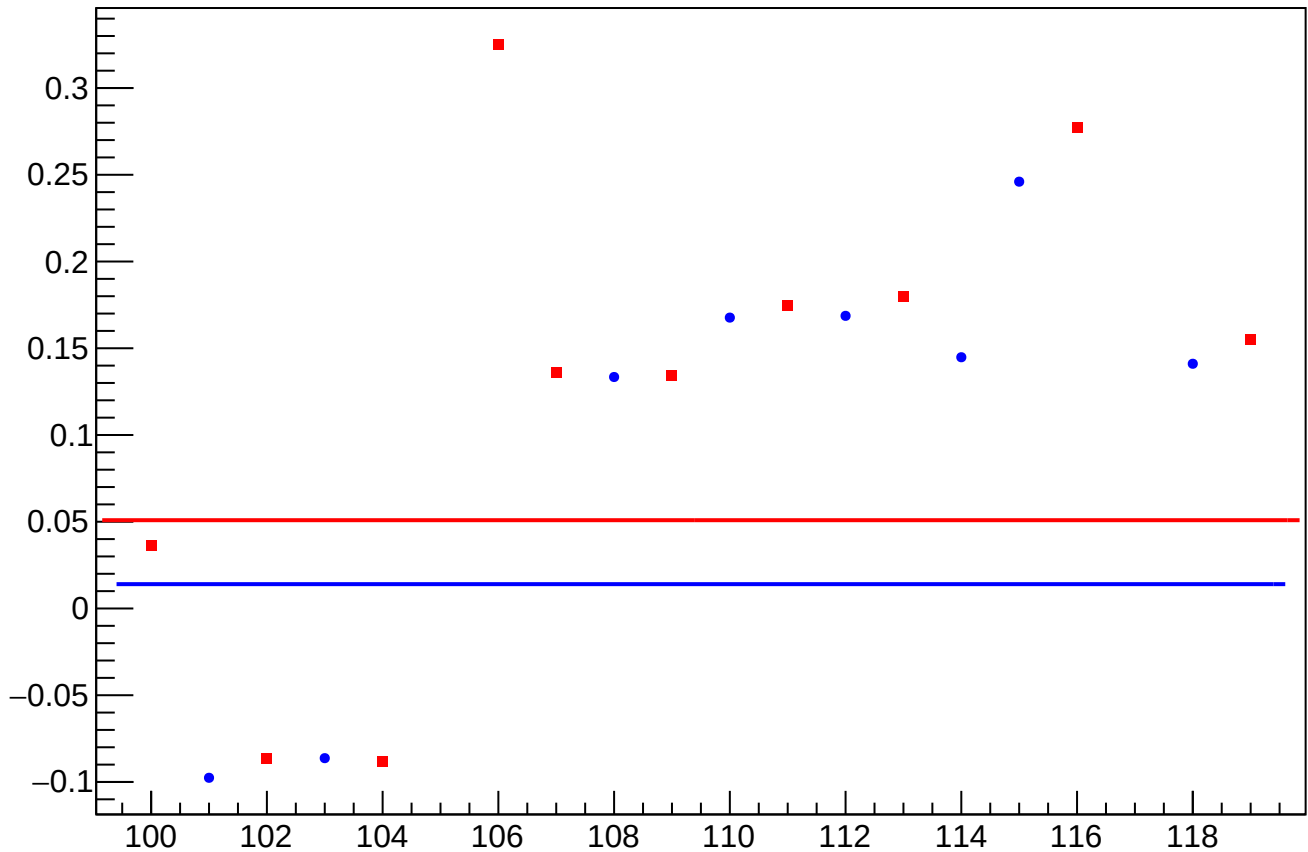
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 246654.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l09Y\_mean vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 2038506884.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.051+/-0.000  $\chi^2/\text{NDF}$ : 2894272706.9/9

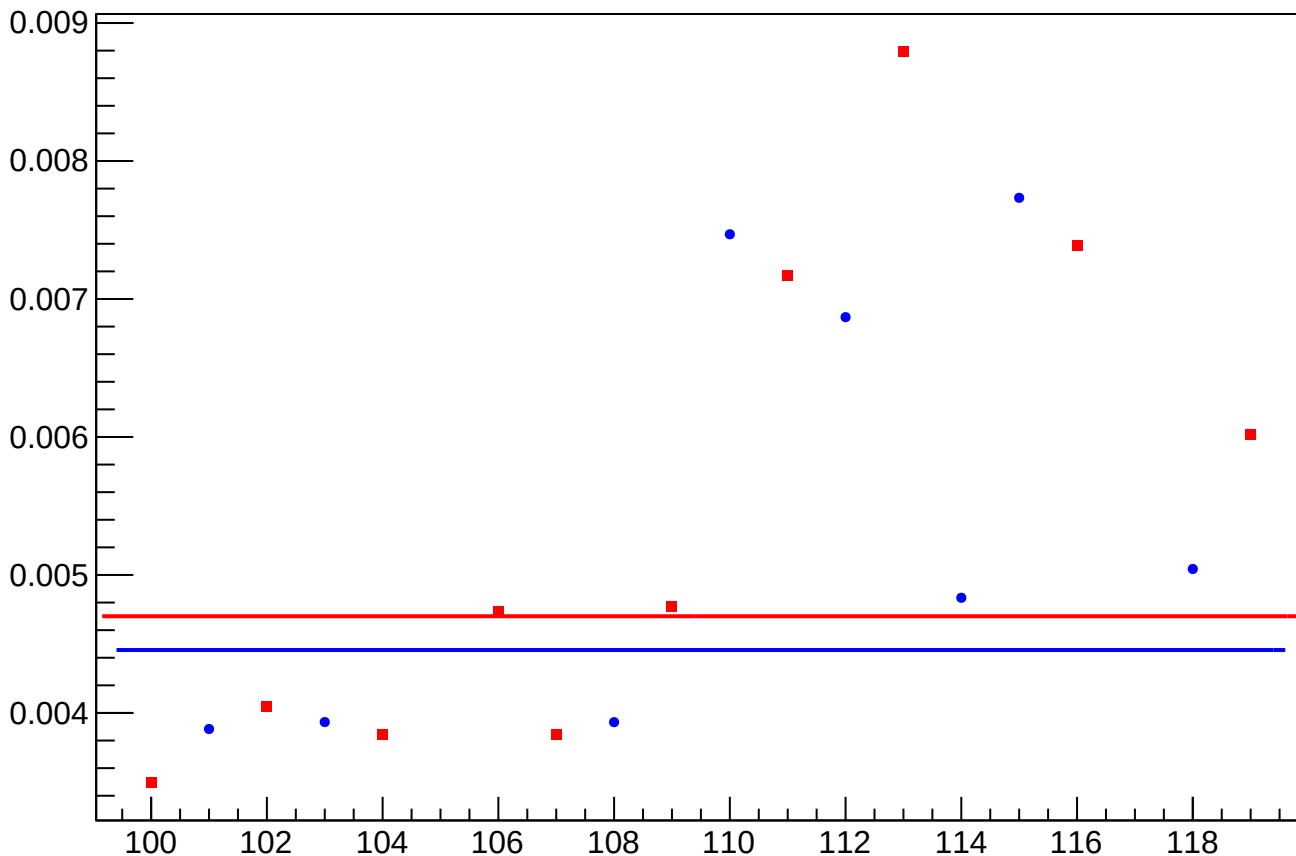
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.033+/-0.000  $\chi^2/\text{NDF}$ : 5032858057.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l09Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 322923.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 509525.4/9

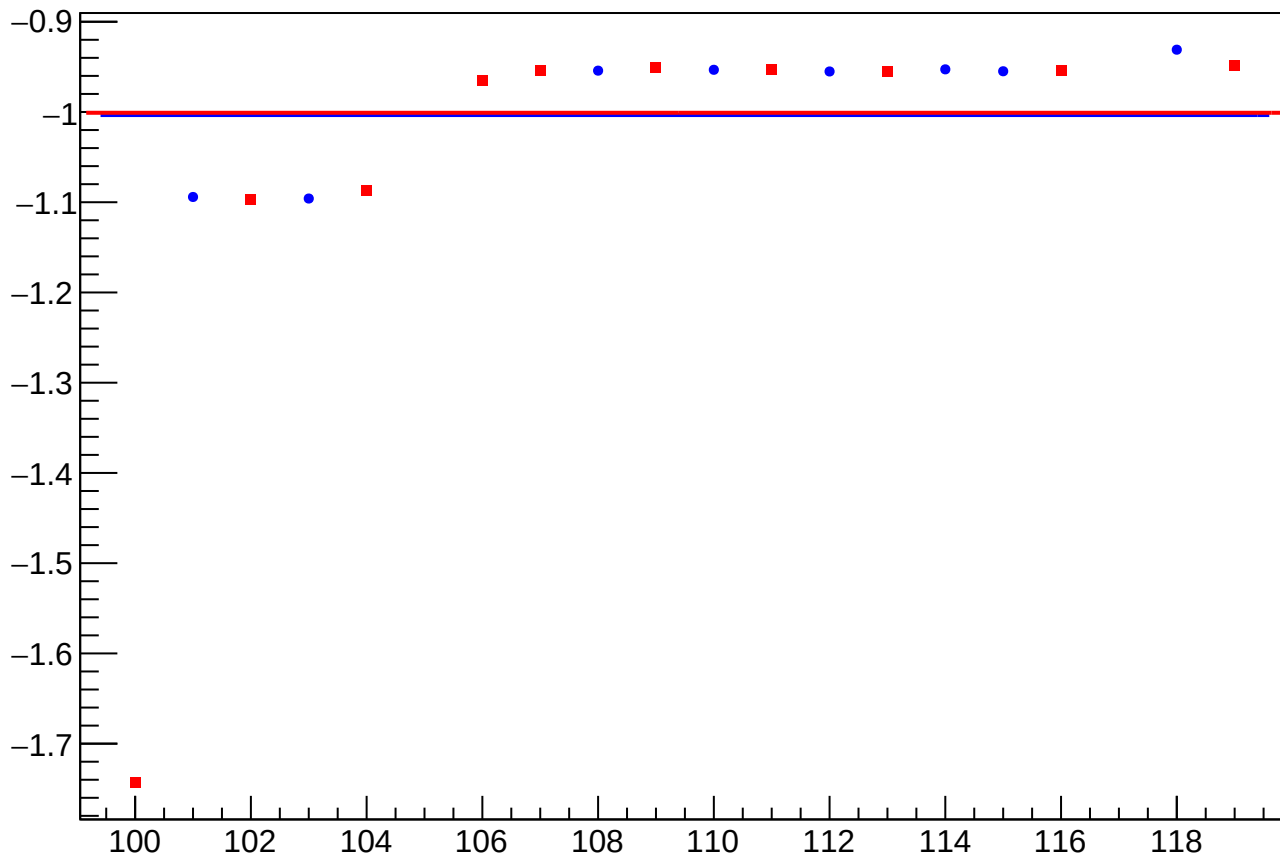
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 841272.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l10X\_mean vs Slug



Right In: -1.003+/-0.000  $\chi^2$ /NDF: 108248980.5/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.001+/-0.000  $\chi^2$ /NDF: 407190730.4/9

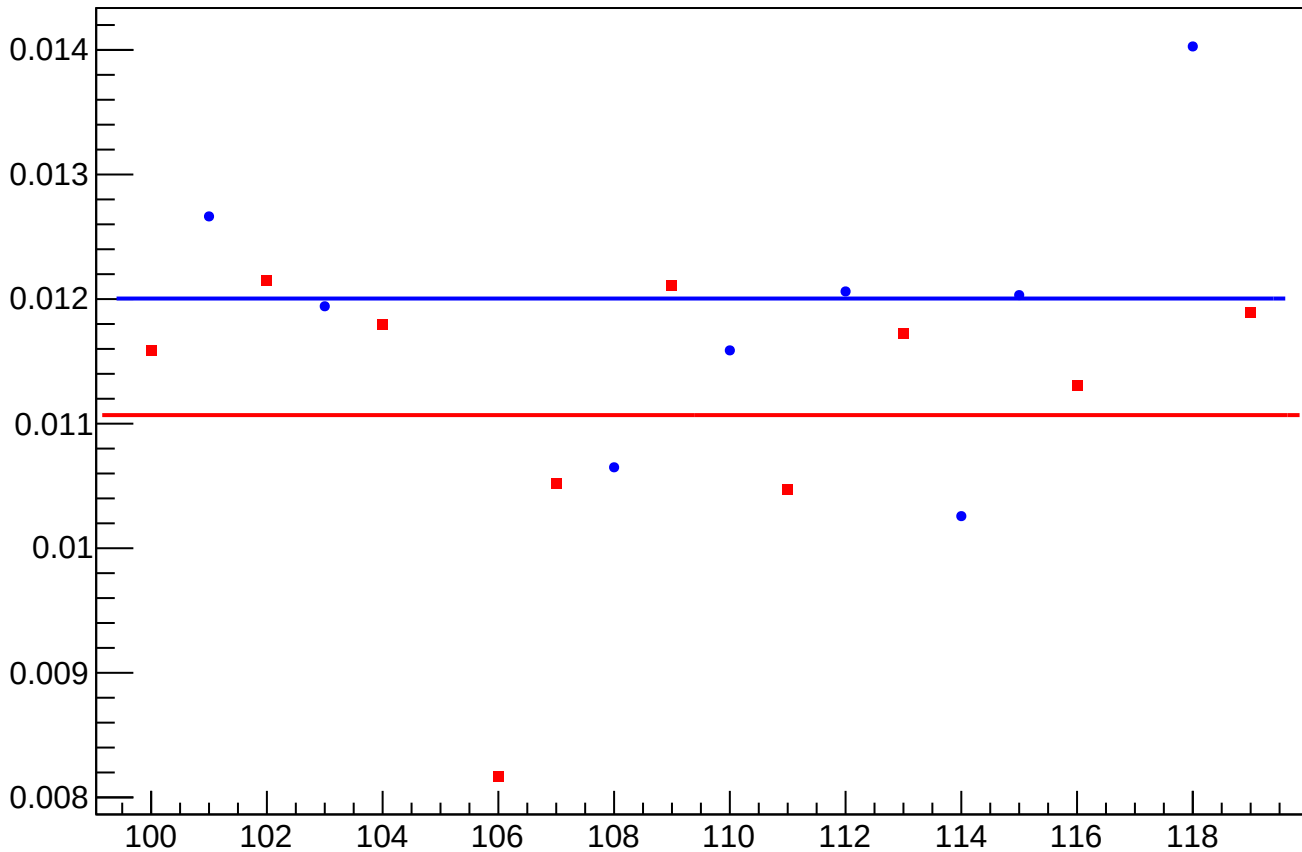
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1.002+/-0.000  $\chi^2$ /NDF: 515522111.1/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l10X\_rms vs Slug



Right In: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 43741.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 113271.9/9

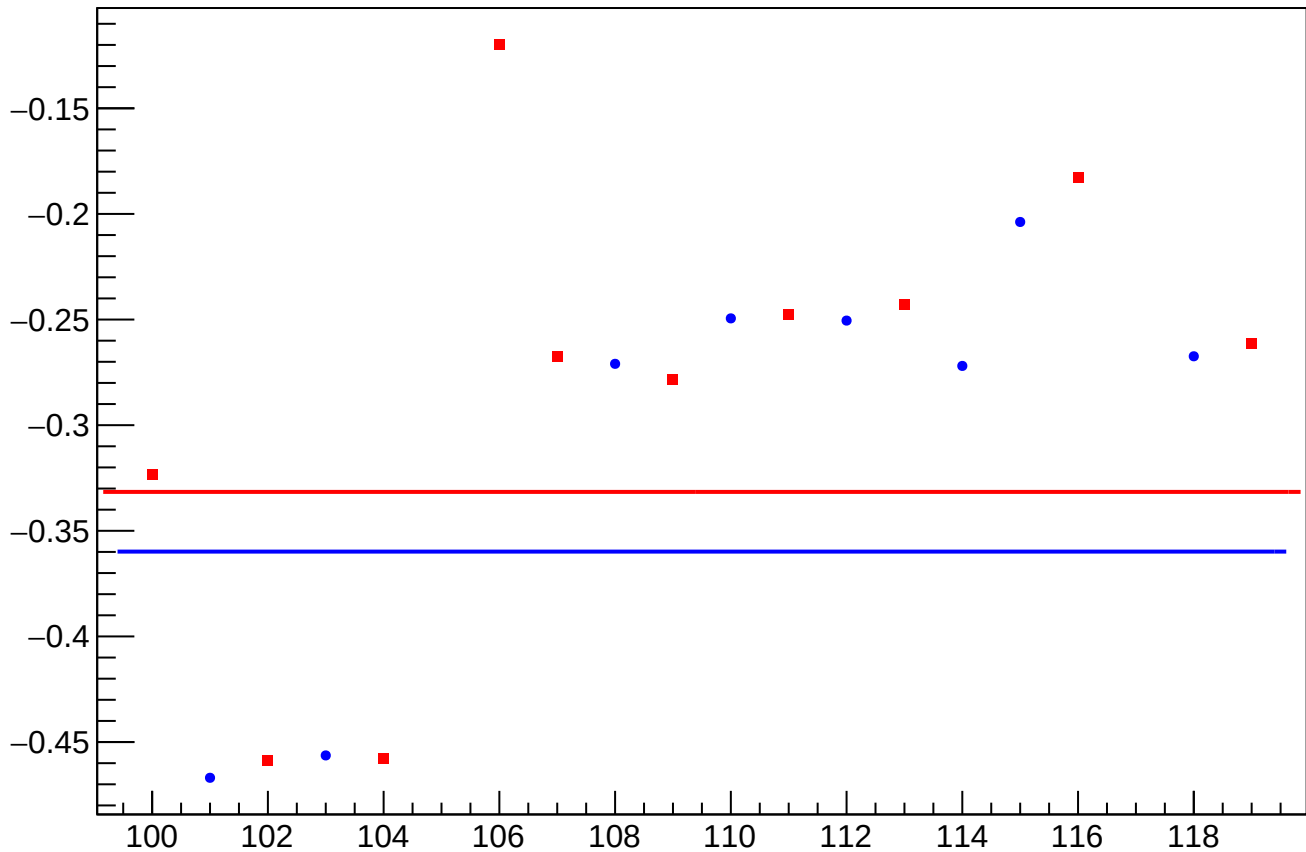
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 179814.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l10Y\_mean vs Slug



Right In: -0.360+/-0.000  $\chi^2/\text{NDF}$ : 1856135406.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.332+/-0.000  $\chi^2/\text{NDF}$ : 2343539052.7/9

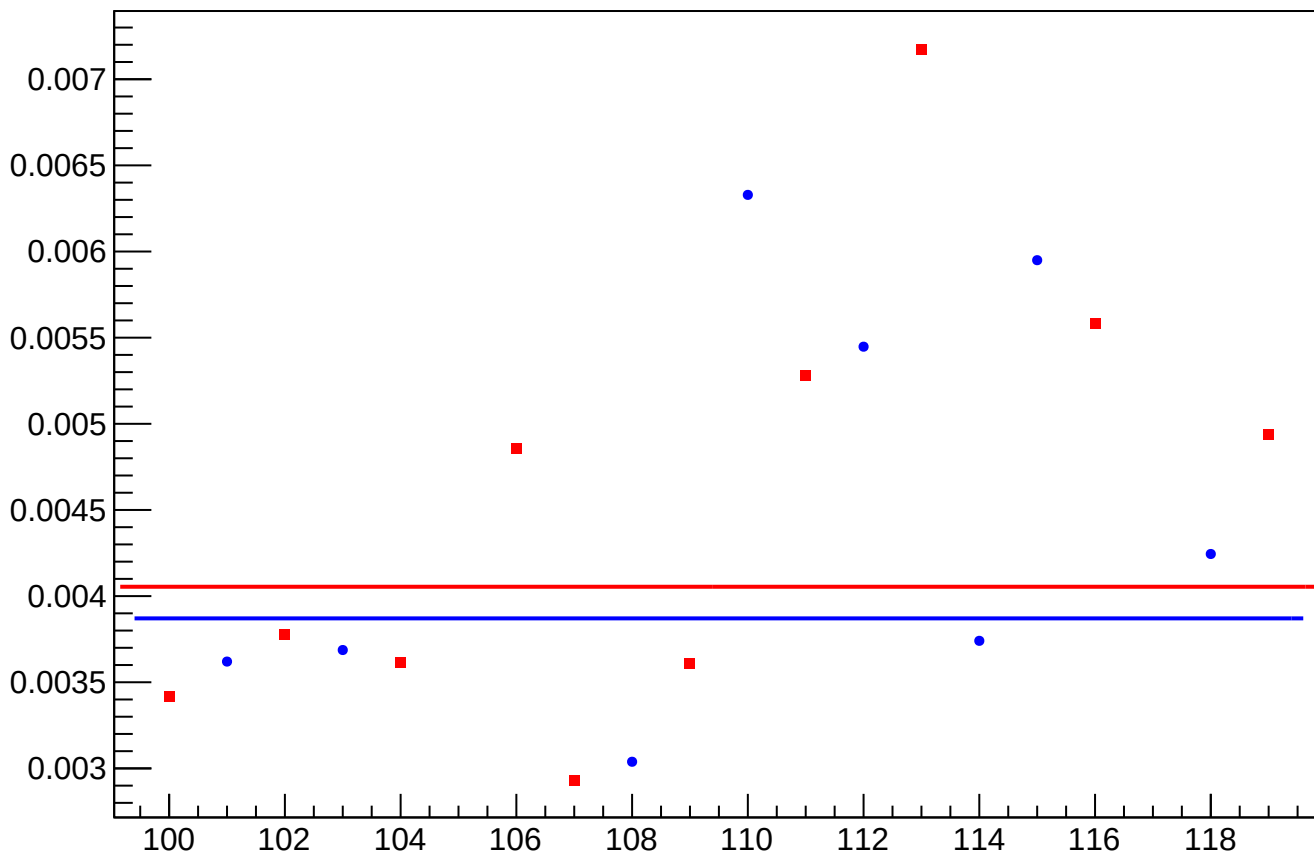
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.345+/-0.000  $\chi^2/\text{NDF}$ : 4278390252.7/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l10Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 266291.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 390138.3/9

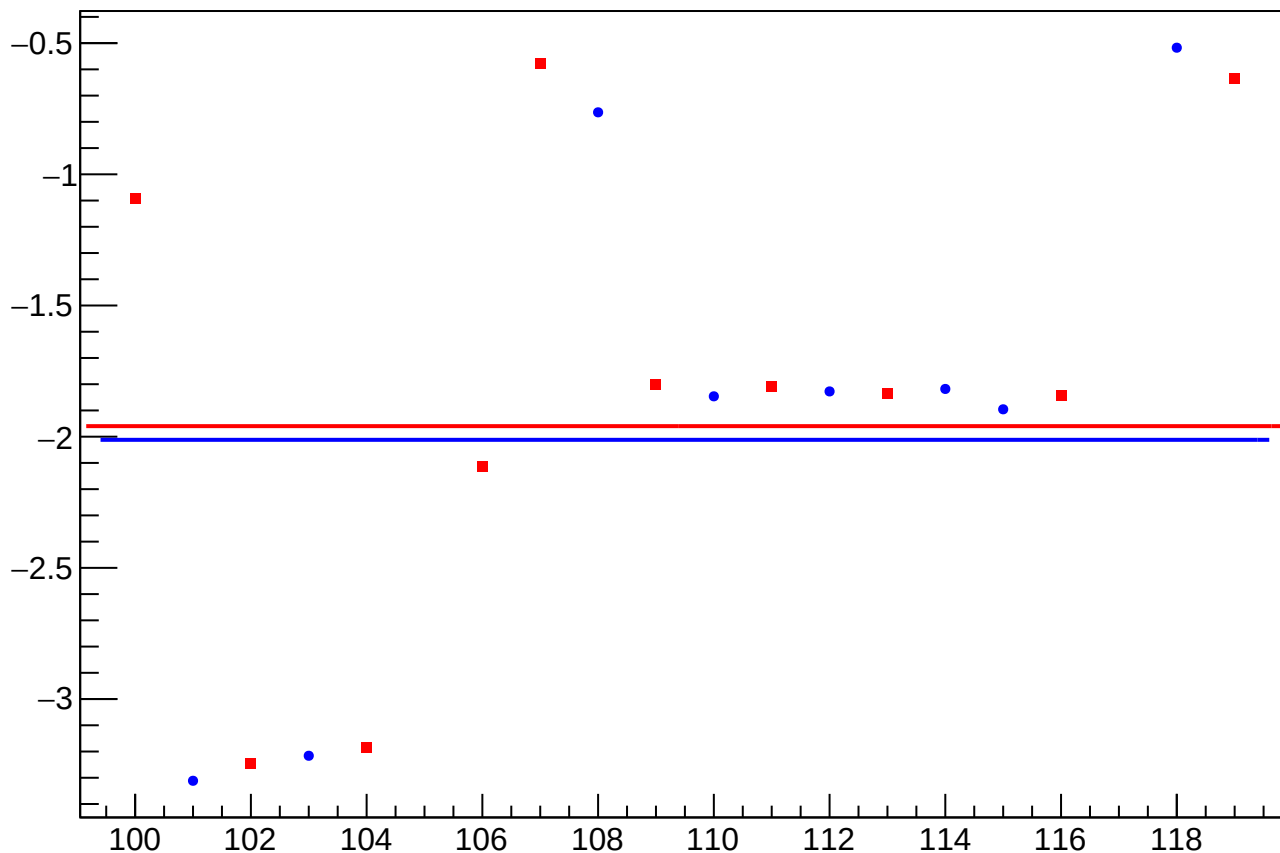
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 663074.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r03X\_mean vs Slug



Right In: -2.012+/-0.000  $\chi^2/\text{NDF}$ : 731031673.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.960+/-0.000  $\chi^2/\text{NDF}$ : 650015160.5/9

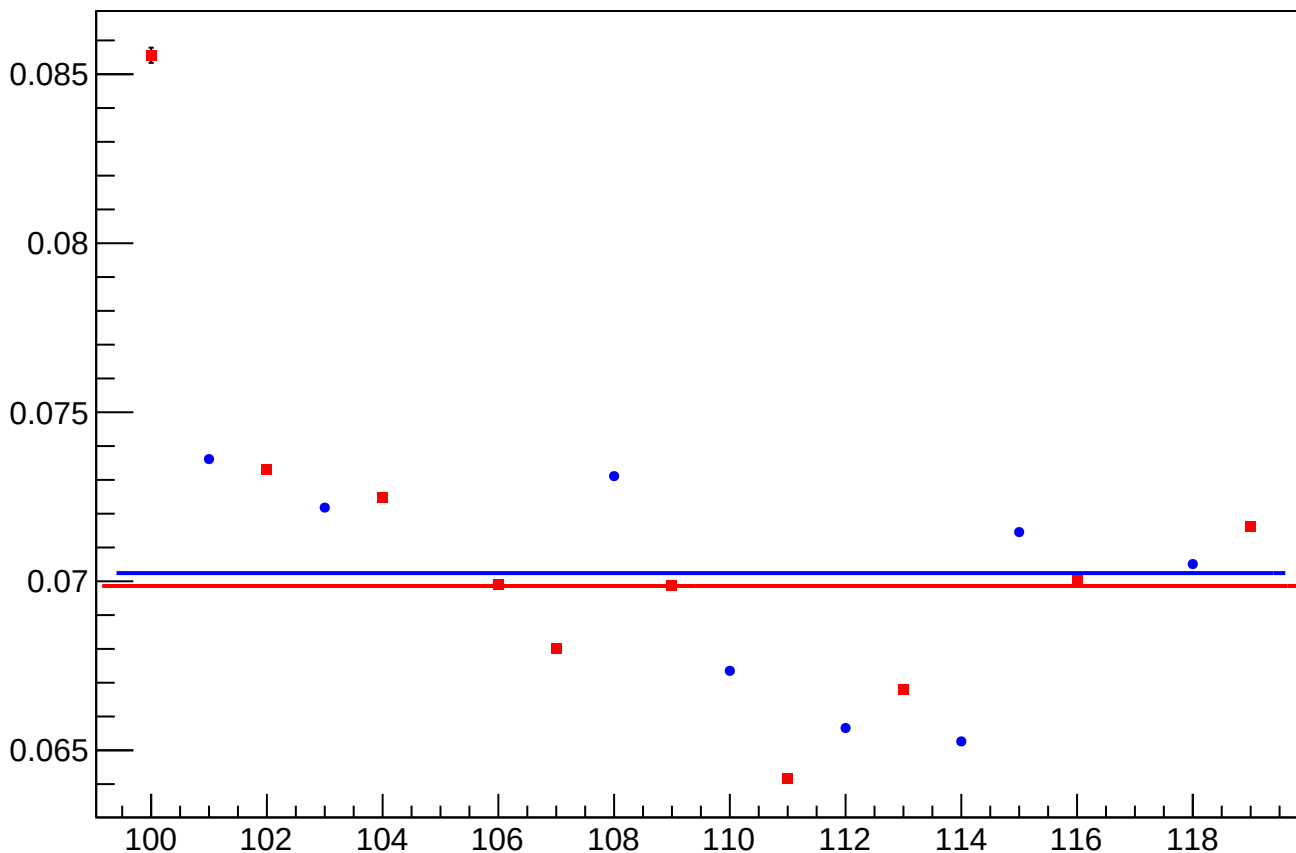
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.983+/-0.000  $\chi^2/\text{NDF}$ : 1382053954.6/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r03X\_rms vs Slug



Right In: 0.070+/-0.000  $\chi^2/\text{NDF}$ : 12465.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.070+/-0.000  $\chi^2/\text{NDF}$ : 19035.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

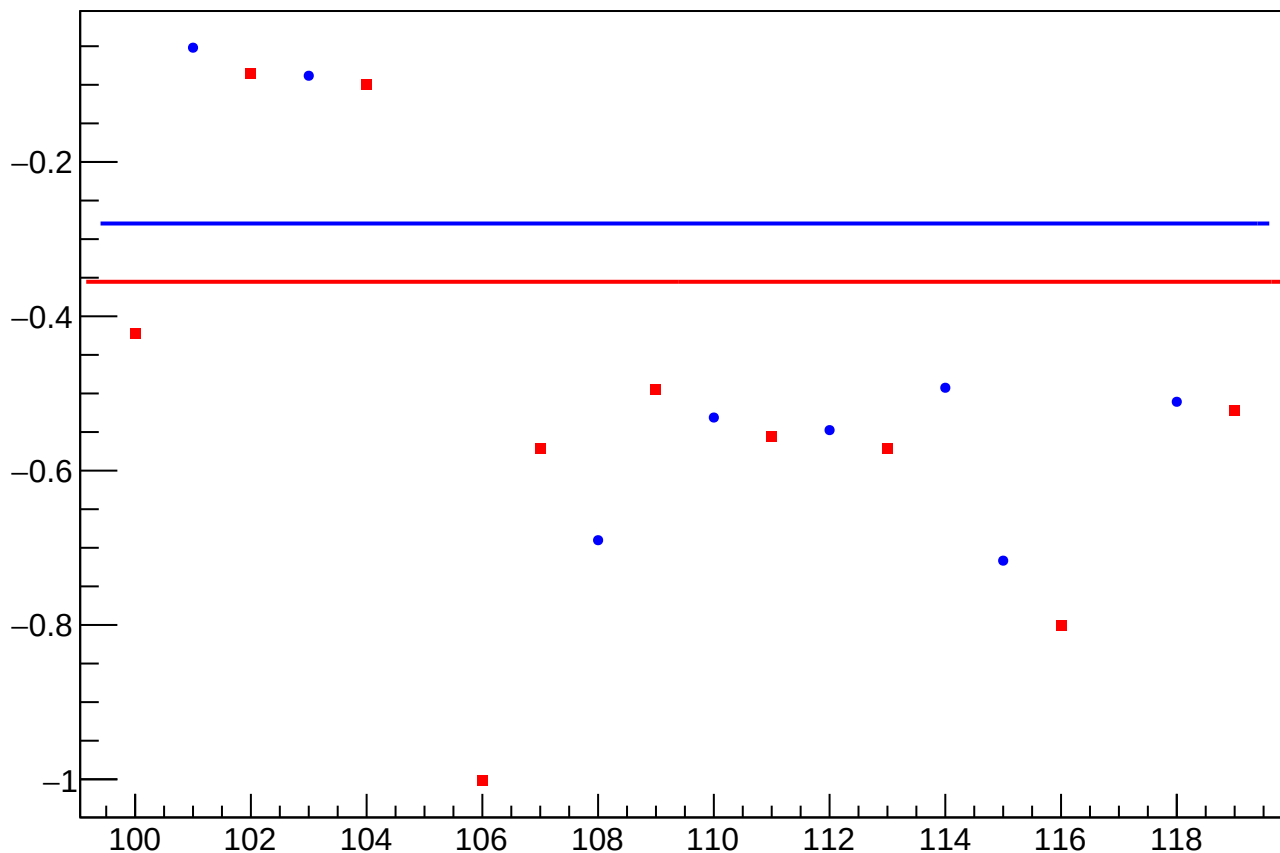
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.070+/-0.000  $\chi^2/\text{NDF}$ : 31609.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0r03Y\_mean vs Slug



Right In:  $-0.280 \pm 0.000$   $\chi^2/\text{NDF}: 1633506192.5/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.355 \pm 0.000$   $\chi^2/\text{NDF}: 2450549131.1/9$

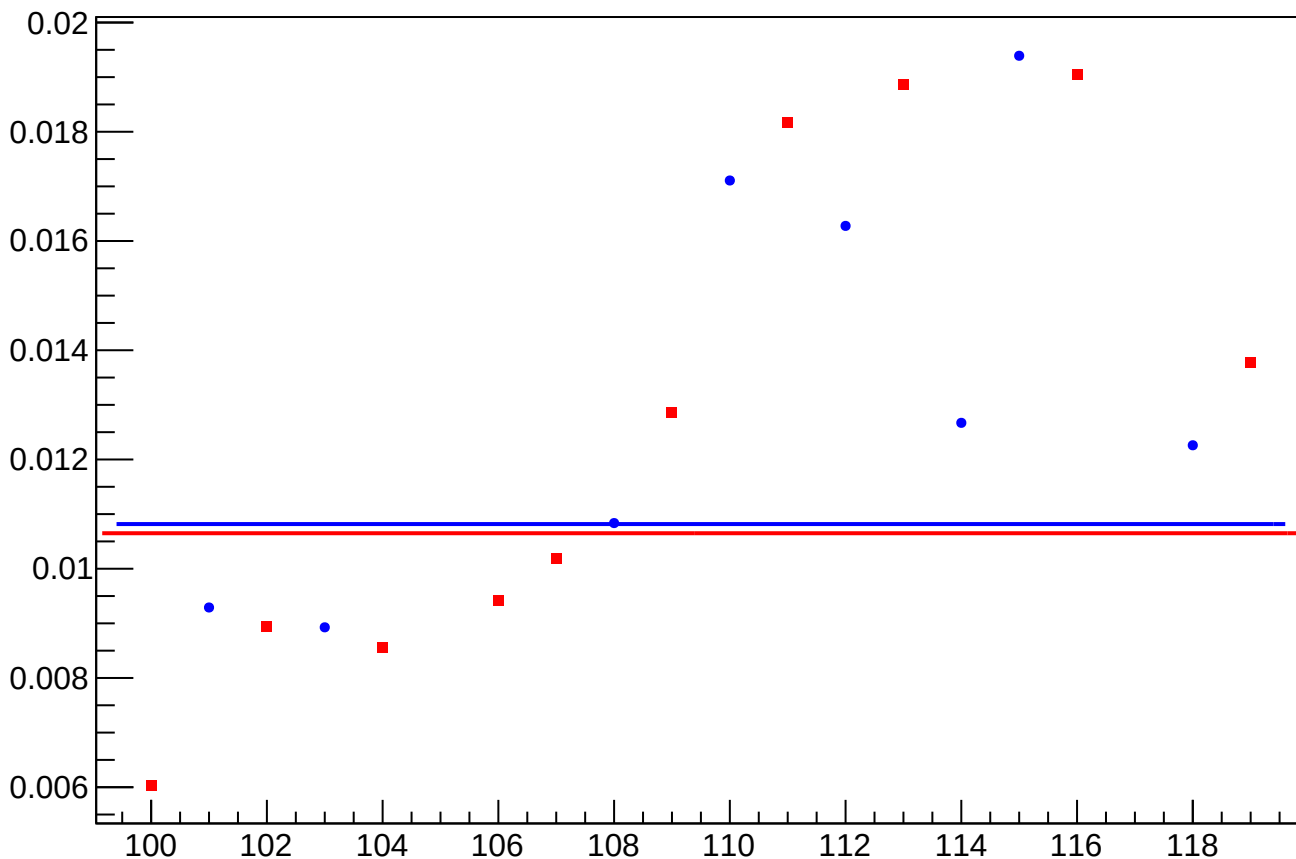
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.321 \pm 0.000$   $\chi^2/\text{NDF}: 4161529861.2/1$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# yield\_bpm0r03Y\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 340264.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 678025.5/9

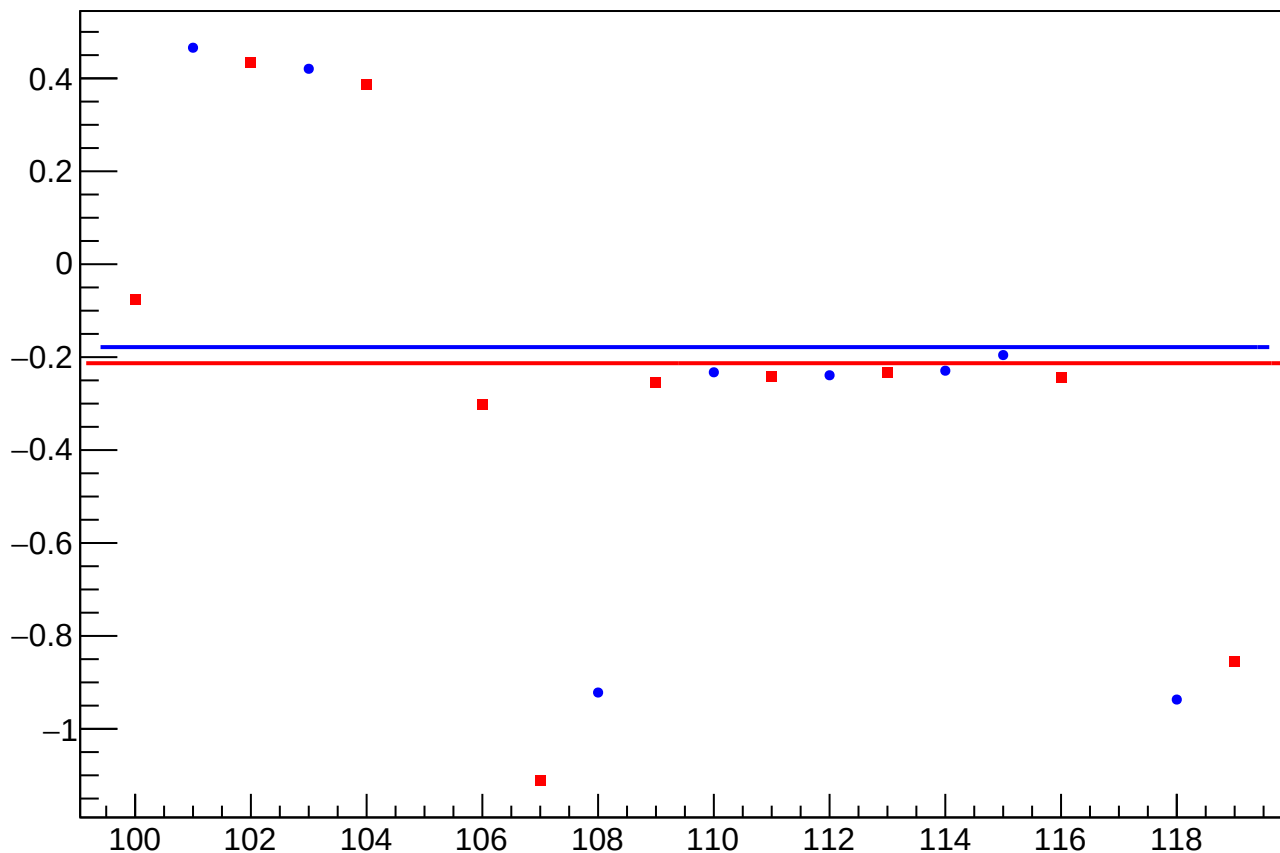
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 1019055.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05X\_mean vs Slug



Right In: -0.178+/-0.000  $\chi^2/\text{NDF}$ : 129779016.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.213+/-0.000  $\chi^2/\text{NDF}$ : 115265595.4/9

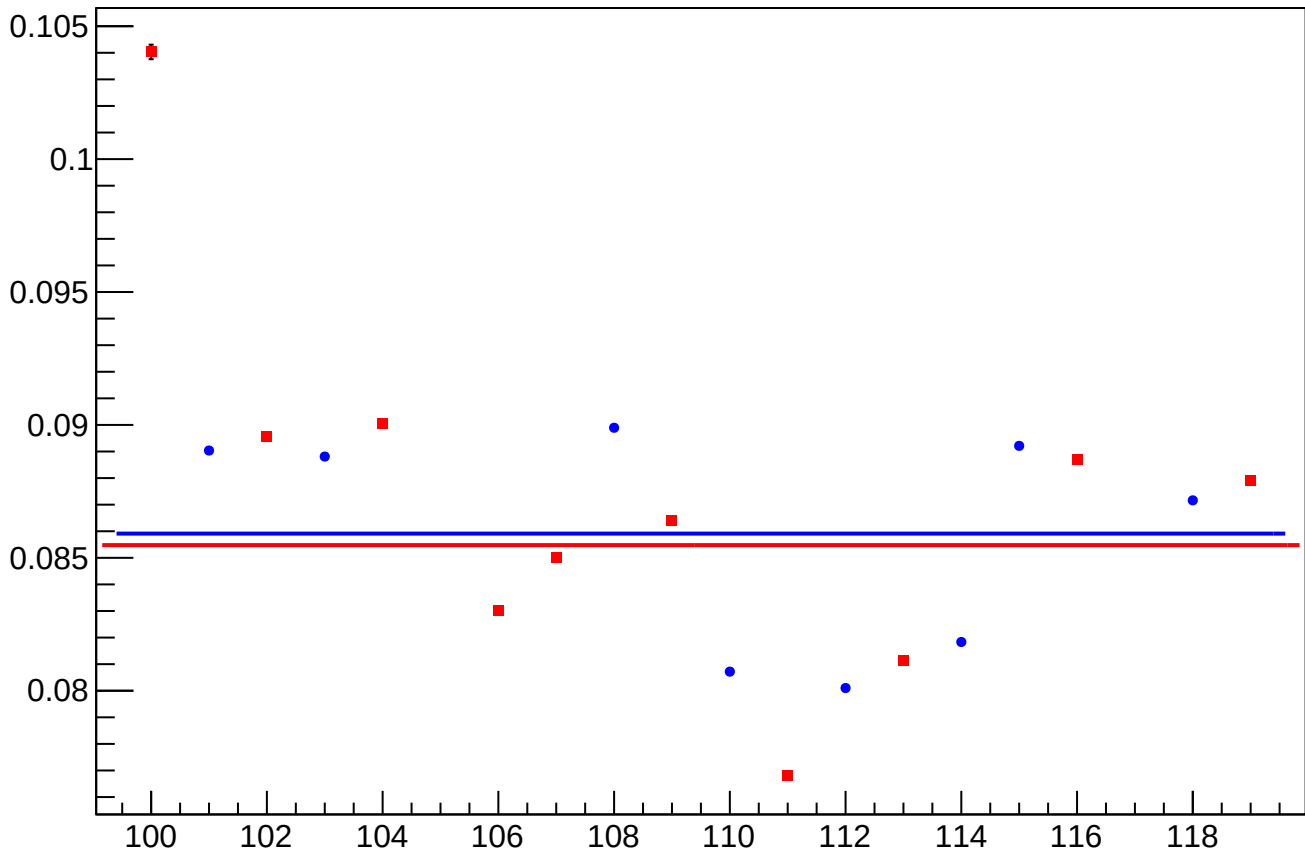
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.198+/-0.000  $\chi^2/\text{NDF}$ : 245343825.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05X\_rms vs Slug



Right In: 0.086 $\pm$ 0.000  $\chi^2$ /NDF: 13980.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.085 $\pm$ 0.000  $\chi^2$ /NDF: 26306.4/9

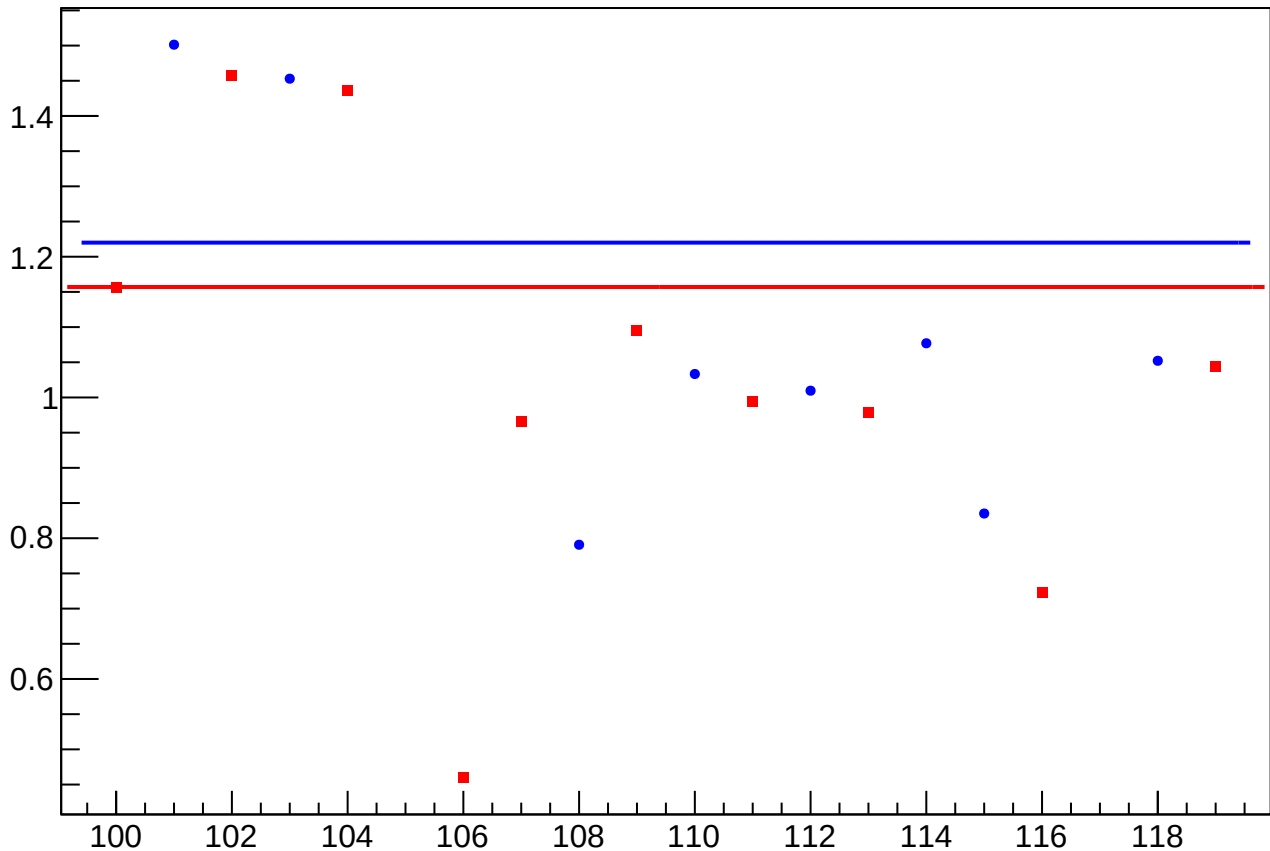
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.086 $\pm$ 0.000  $\chi^2$ /NDF: 40380.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r05Y\_mean vs Slug



Right In: 1.220+/-0.000  $\chi^2/\text{NDF}$ : 1027394982.2/7

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

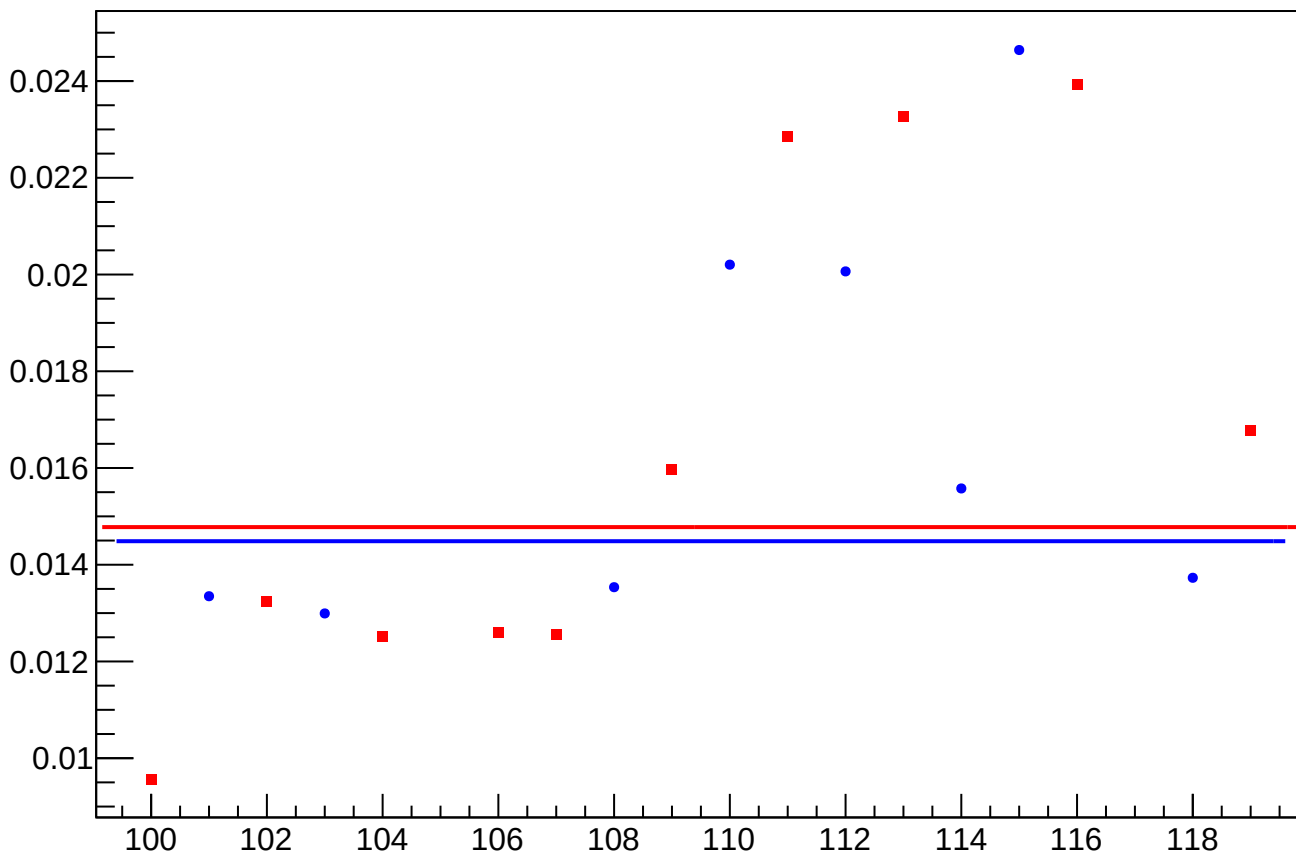
Right Out: 1.157+/-0.000  $\chi^2/\text{NDF}$ : 1403427478.2/9

All: 1.186+/-0.000  $\chi^2/\text{NDF}$ : 2460747640.5/17

- 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\_bpm0r05Y\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 193521.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 422878.5/9

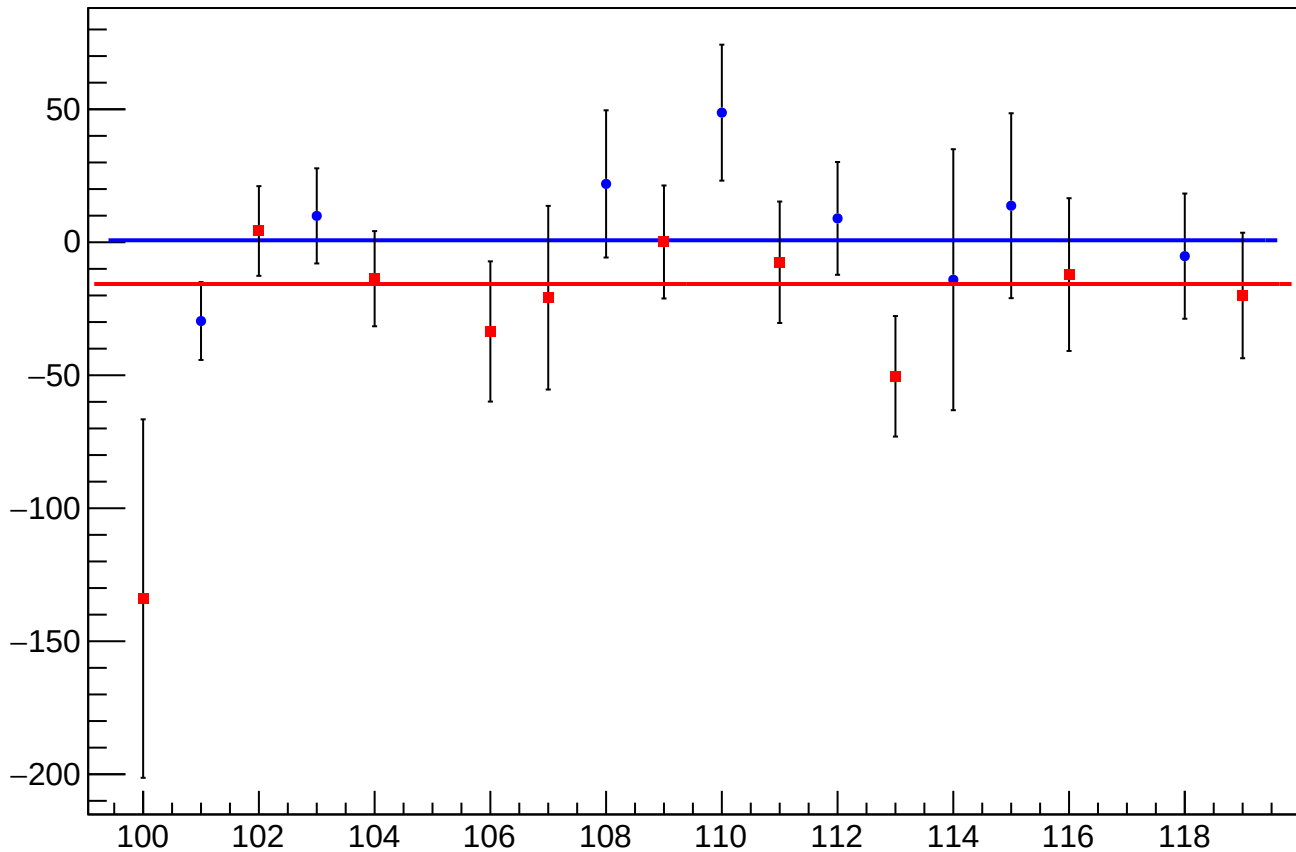
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 617682.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aX\_mean vs Slug



Right In: 0.744+/-7.927     $\chi^2/\text{NDF}$ : 9.1/7

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.693+/-7.405     $\chi^2/\text{NDF}$ : 8.0/9

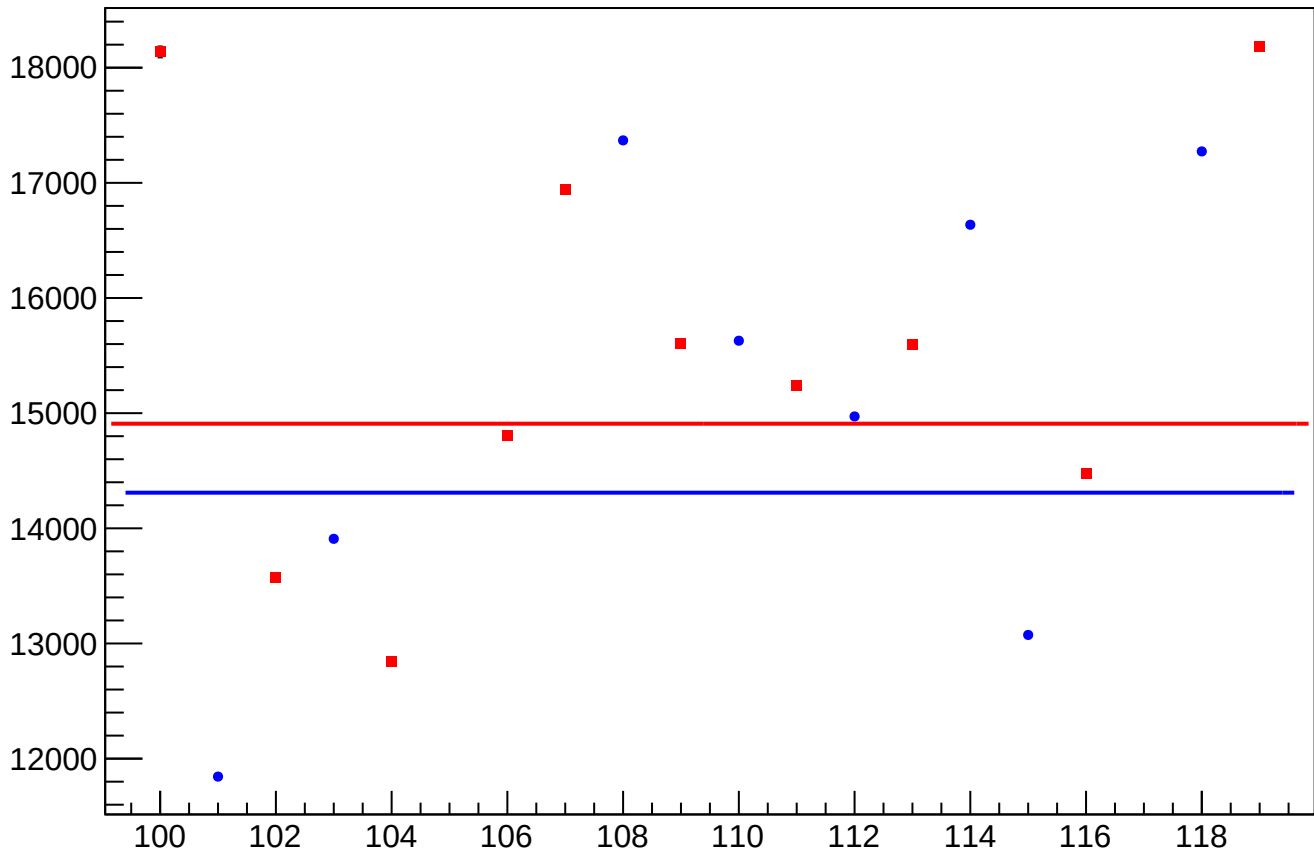
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: -8.033+/-5.411     $\chi^2/\text{NDF}$ : 19.5/17

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aX\_rms vs Slug



Right In: 14309.535 $\pm$ 5.605  $\chi^2$ /NDF: 128322.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14908.496 $\pm$ 5.236  $\chi^2$ /NDF: 94120.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

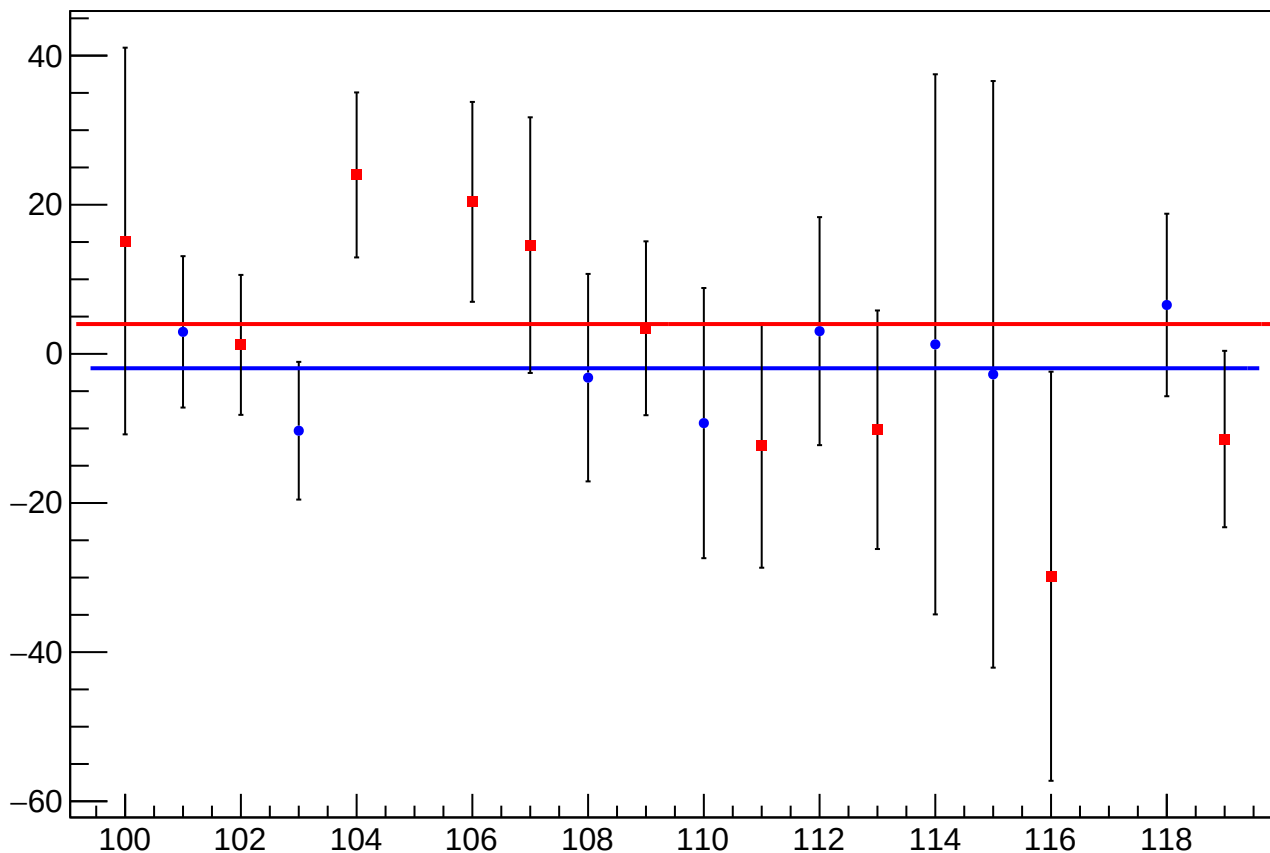
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 14629.387 $\pm$ 3.826  $\chi^2$ /NDF: 228540.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm4aY\_mean vs Slug



Right In: -1.928+/-4.879  $\chi^2/\text{NDF}$ : 1.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.999+/-4.326  $\chi^2/\text{NDF}$ : 10.4/9

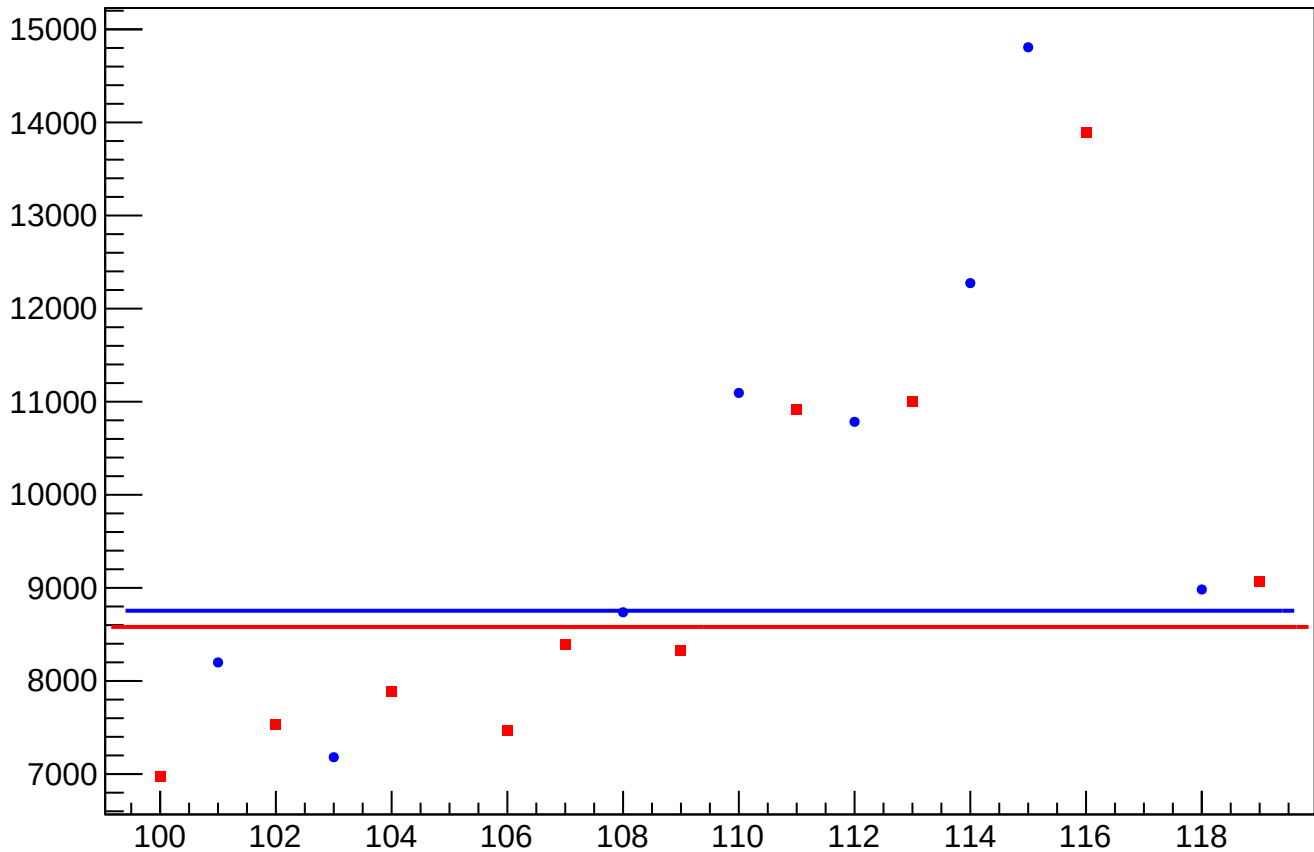
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.391+/-3.237  $\chi^2/\text{NDF}$ : 13.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aY\_rms vs Slug



Right In: 8754.379+/-3.450  $\chi^2/\text{NDF}$ : 199607.8/7

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

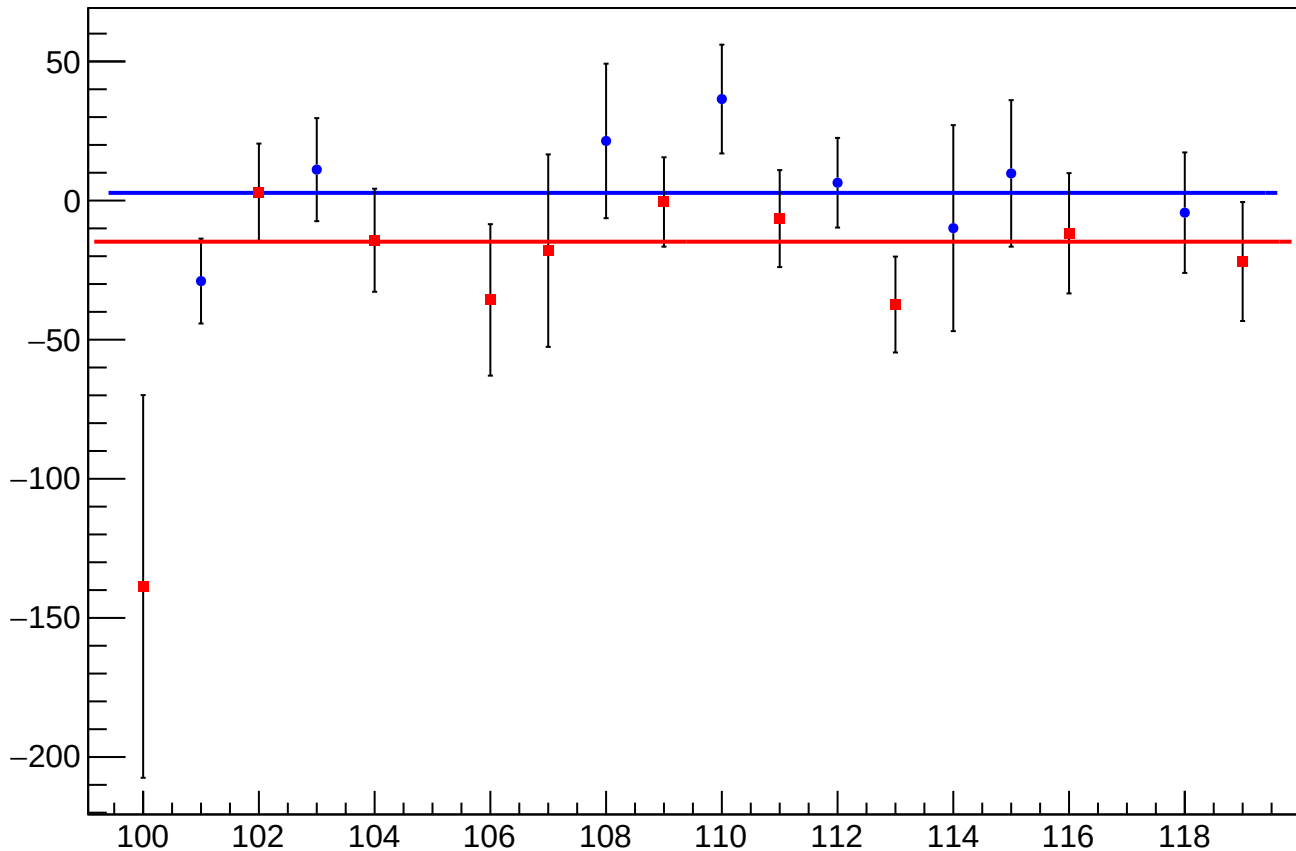
Right Out: 8580.613+/-3.059  $\chi^2/\text{NDF}$ : 220102.4/9

All: 8657.085+/-2.289  $\chi^2/\text{NDF}$ : 421130.5/17

- 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\_bpm4eX\_mean vs Slug



Right In: 2.770 $\pm$ 7.200  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -14.780 $\pm$ 6.530  $\chi^2$ /NDF: 7.7/9

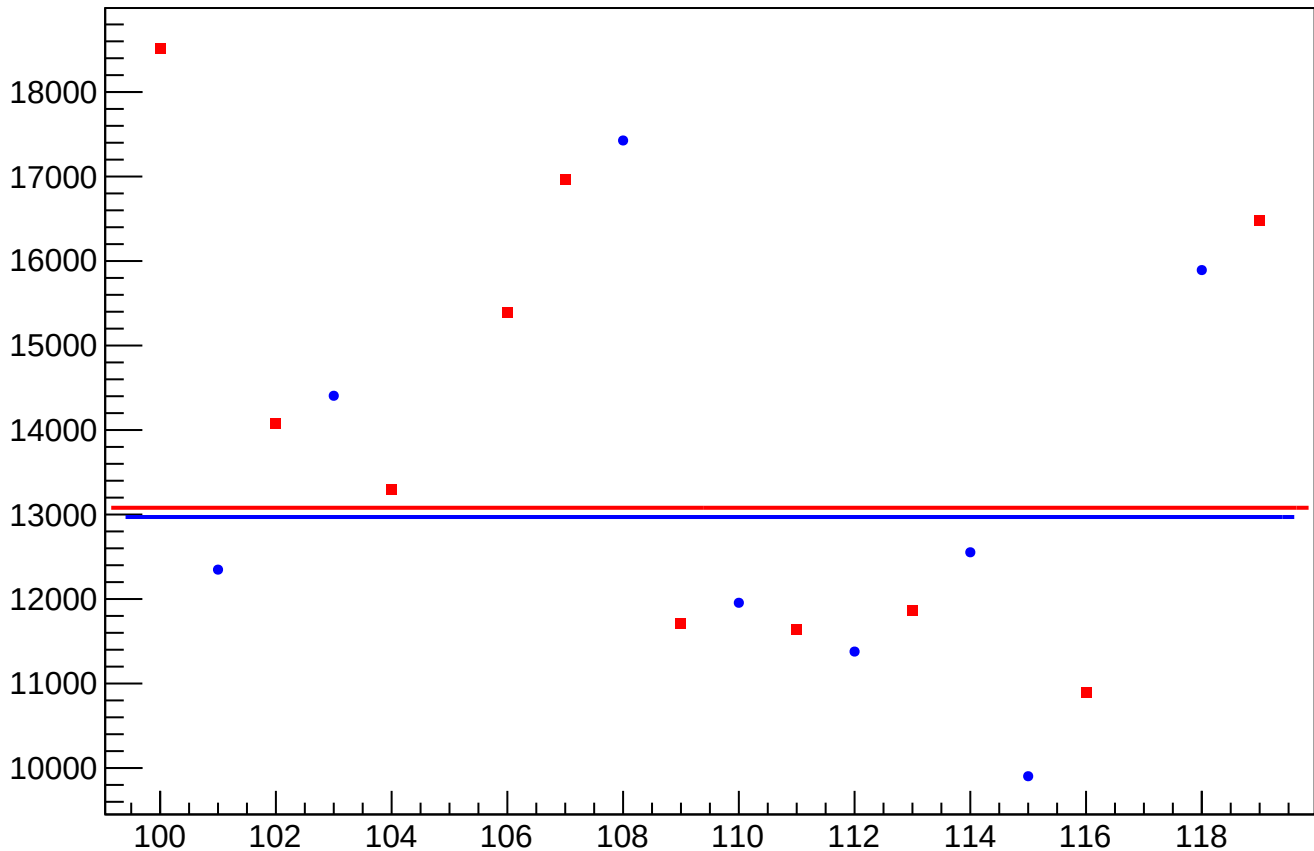
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.859 $\pm$ 4.837  $\chi^2$ /NDF: 19.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm4eX\_rms vs Slug



Right In: 12970.550+/-5.091  $\chi^2/\text{NDF}$ : 155625.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13080.012+/-4.618  $\chi^2/\text{NDF}$ : 168062.9/9

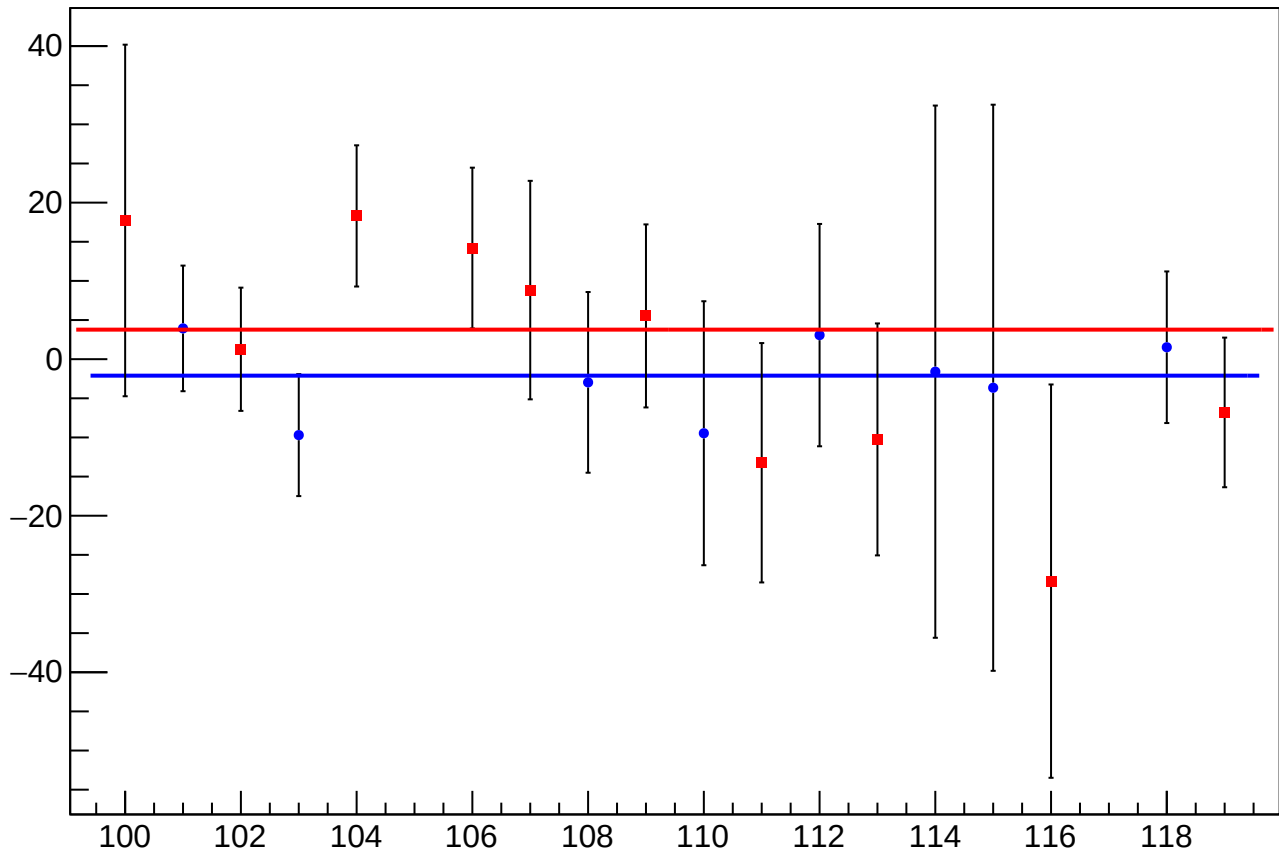
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13030.610+/-3.420  $\chi^2/\text{NDF}$ : 323941.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4eY\_mean vs Slug



Right In:  $-2.106 \pm 4.073$   $\chi^2/\text{NDF}$ : 2.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $3.774 \pm 3.684$   $\chi^2/\text{NDF}$ : 9.3/9

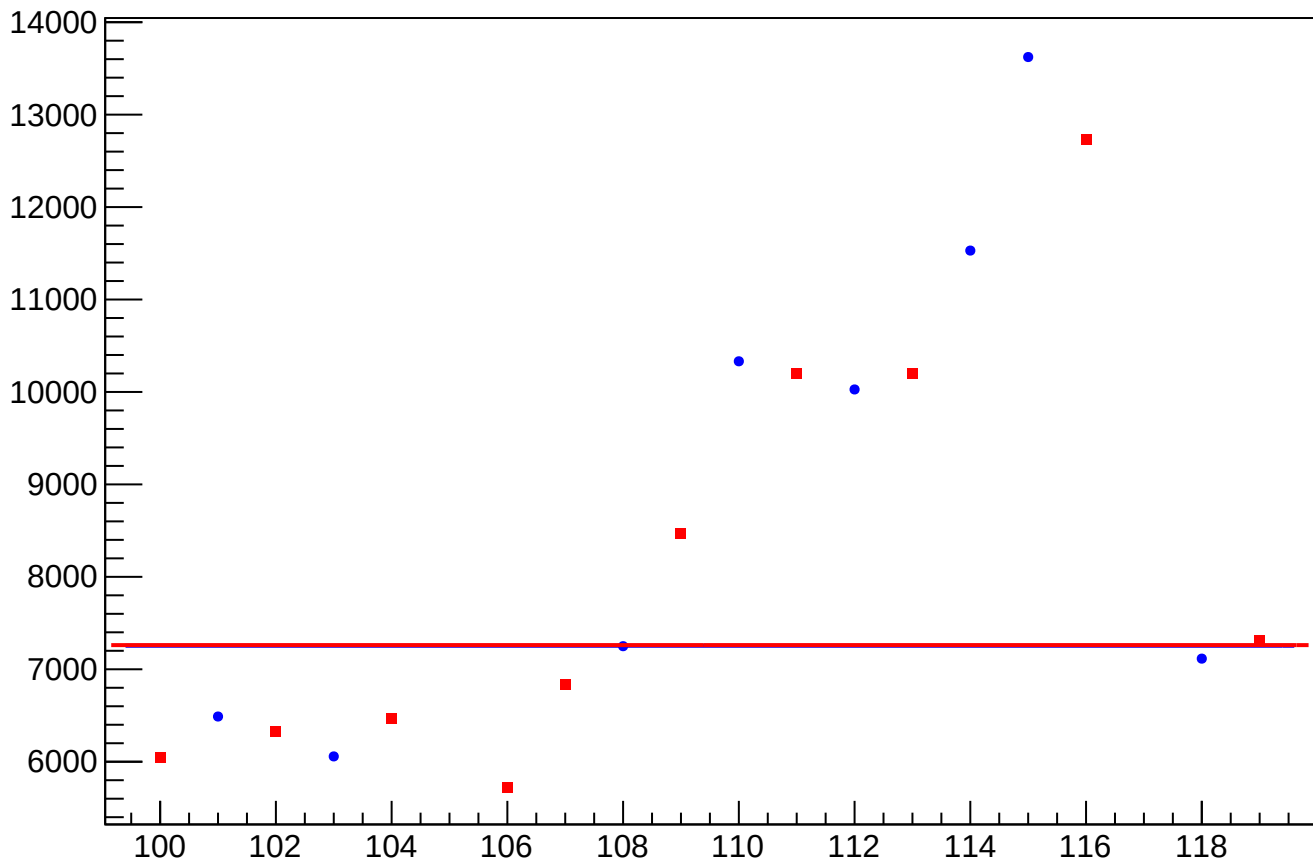
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $1.128 \pm 2.732$   $\chi^2/\text{NDF}$ : 12.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4eY\_rms vs Slug



Right In: 7254.639+/-2.880  $\chi^2/\text{NDF}$ : 302277.2/7

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

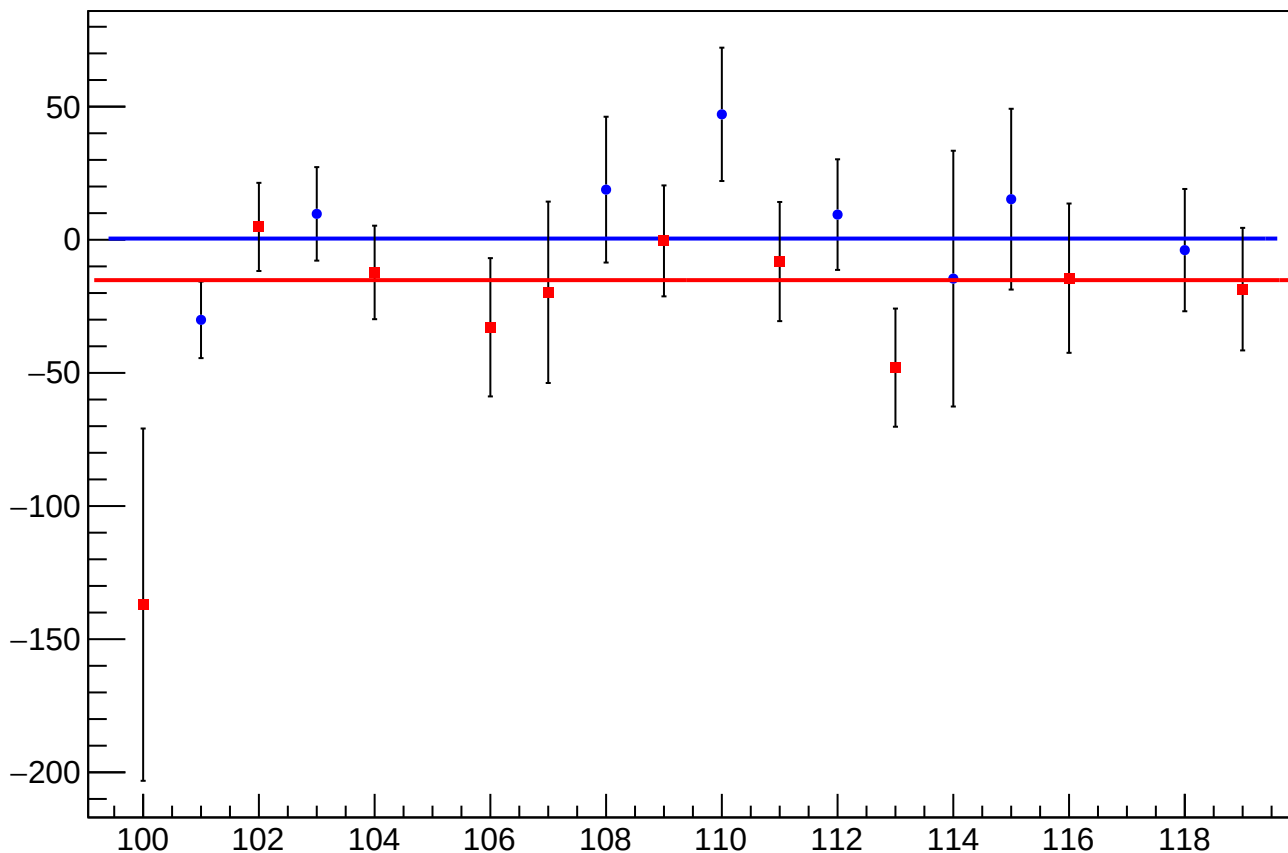
Right Out: 7261.448+/-2.605  $\chi^2/\text{NDF}$ : 364432.4/9

All: 7258.384+/-1.932  $\chi^2/\text{NDF}$ : 666712.7/17

- 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\_bpm4acX\_mean vs Slug



Right In: 0.457+/-7.778  $\chi^2/\text{NDF}$ : 9.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.158+/-7.262  $\chi^2/\text{NDF}$ : 8.2/9

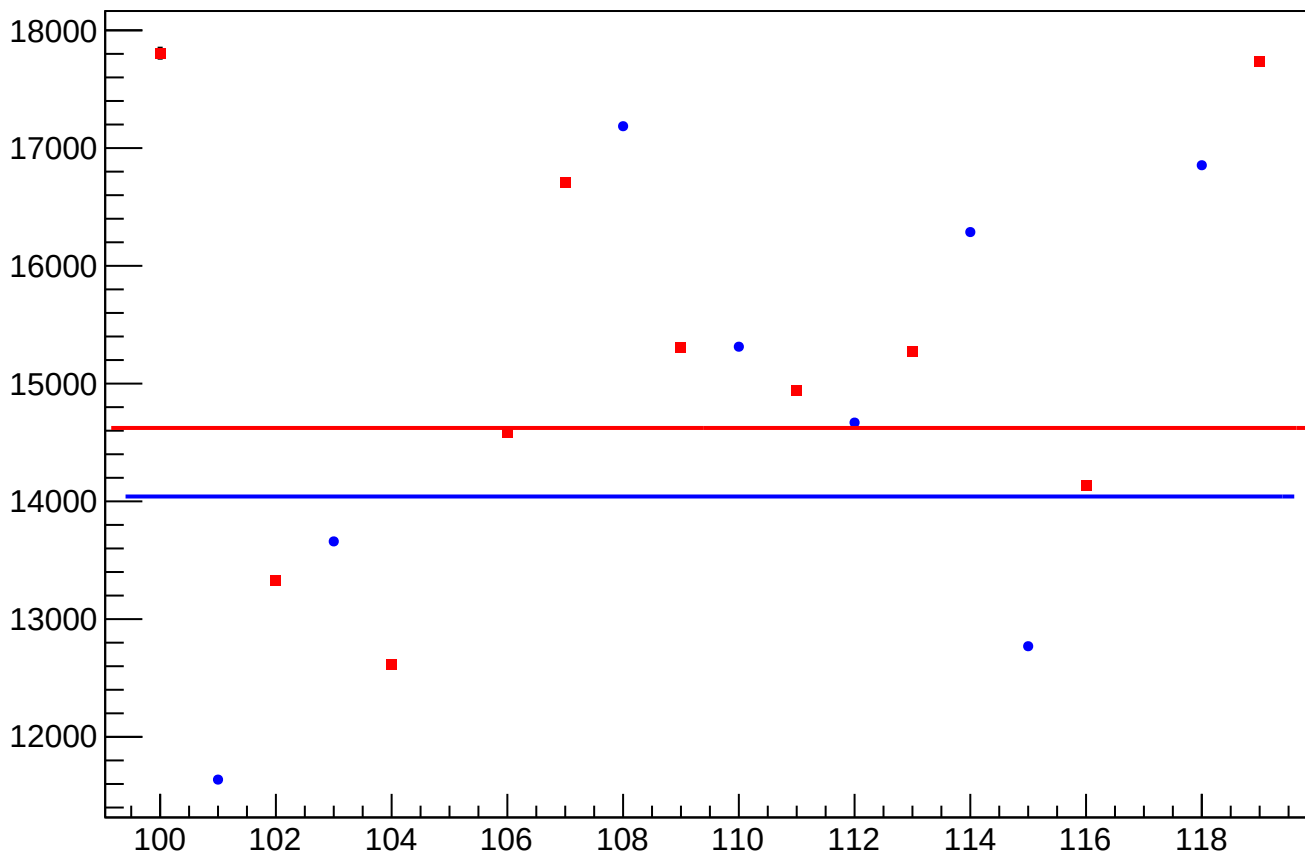
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.885+/-5.308  $\chi^2/\text{NDF}$ : 19.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4acX\_rms vs Slug



Right In: 14041.269+/-5.500  $\chi^2/\text{NDF}$ : 127490.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14623.295+/-5.135  $\chi^2/\text{NDF}$ : 92077.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

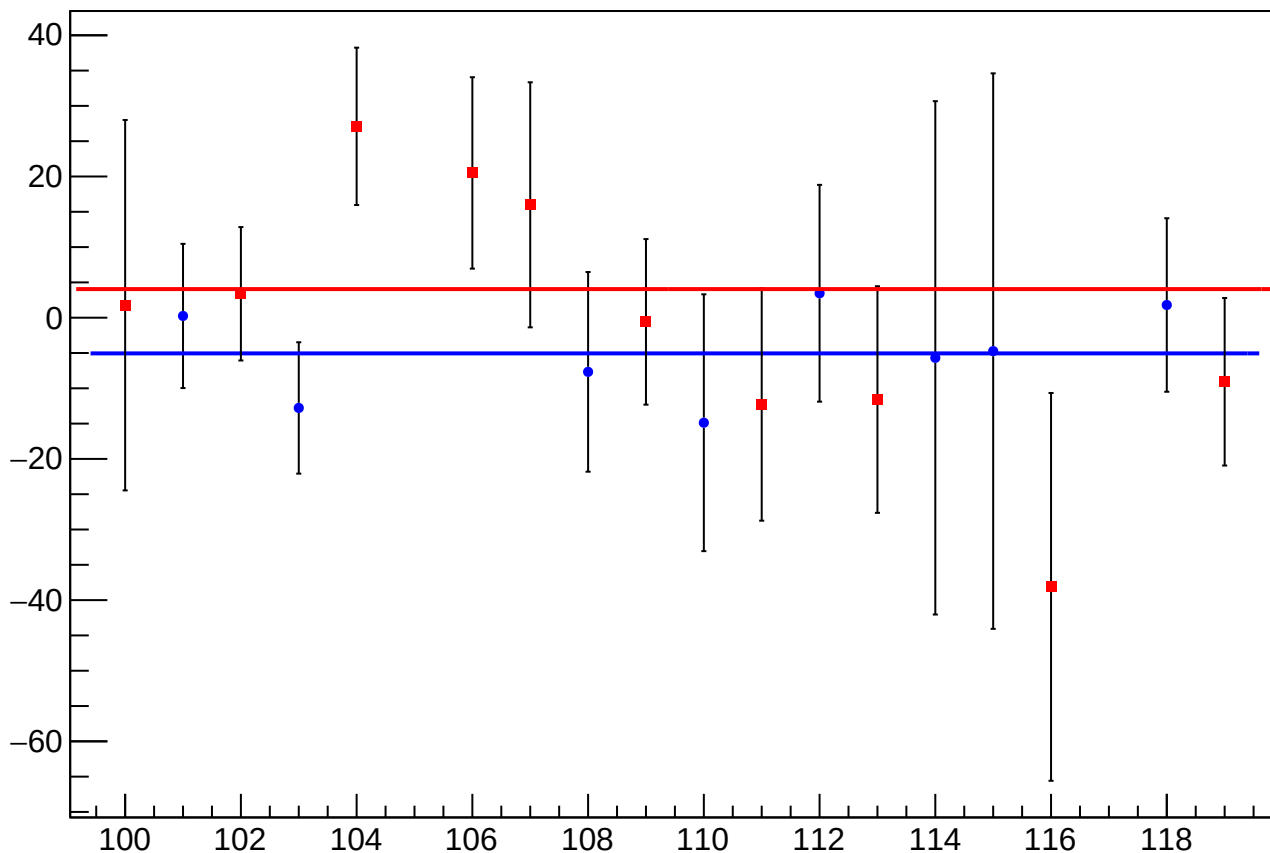
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14352.204+/-3.753  $\chi^2/\text{NDF}$ : 225551.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm4acY\_mean vs Slug



Right In: -5.054+/-4.913  $\chi^2/\text{NDF}$ : 1.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.052+/-4.354  $\chi^2/\text{NDF}$ : 11.9/9

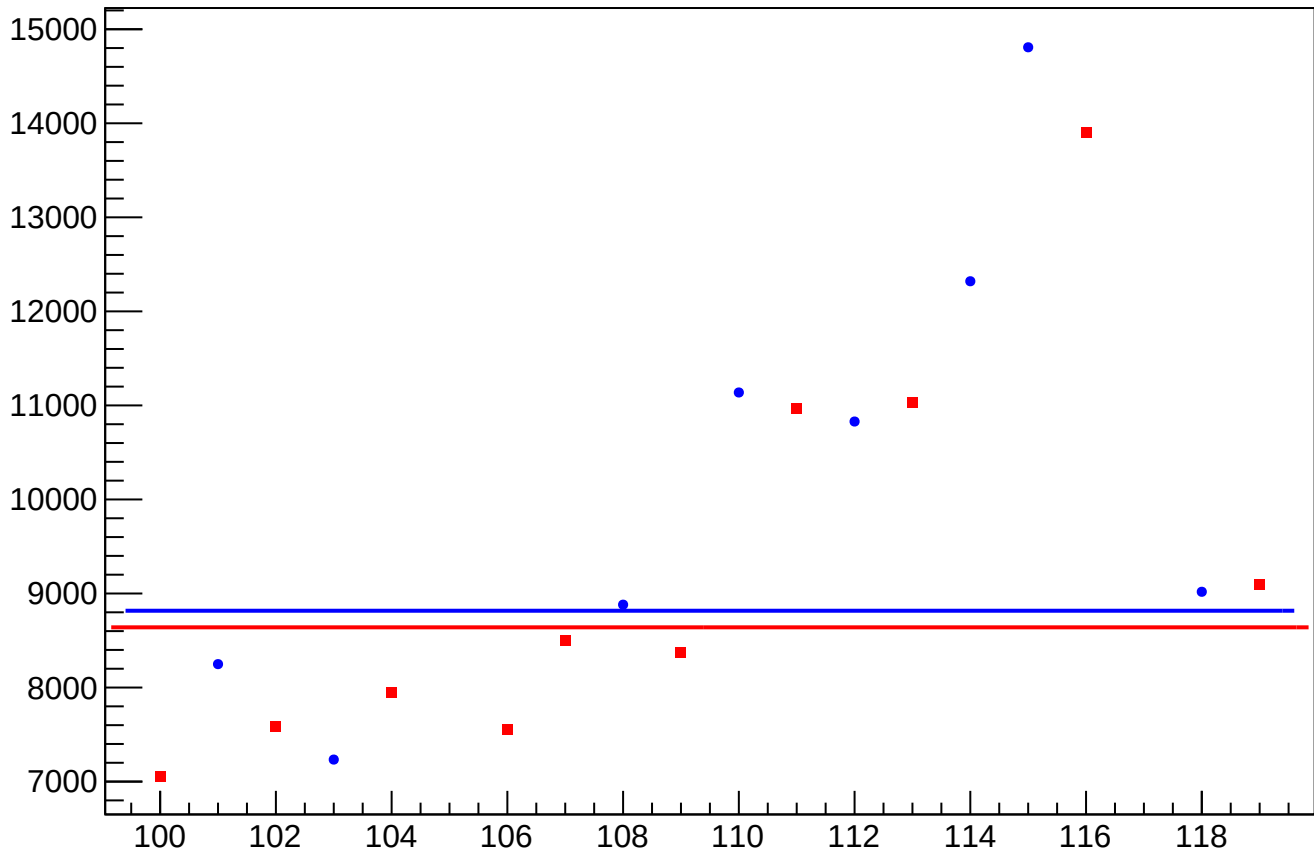
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.046+/-3.258  $\chi^2/\text{NDF}$ : 15.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4acY\_rms vs Slug



Right In: 8816.697 $\pm$ 3.474  $\chi^2$ /NDF: 196530.3/7

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

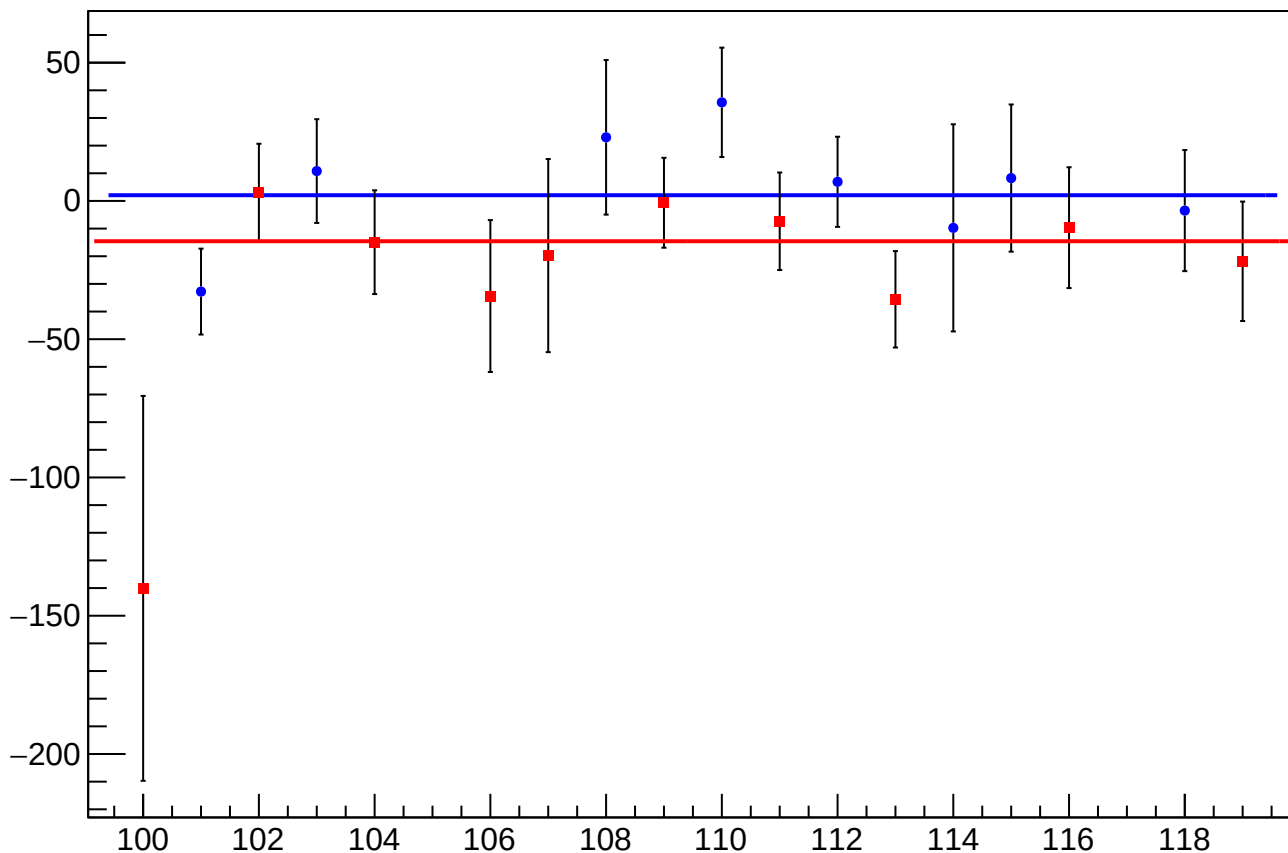
Right Out: 8640.259 $\pm$ 3.079  $\chi^2$ /NDF: 215005.4/9

All: 8717.882 $\pm$ 2.304  $\chi^2$ /NDF: 412980.6/17

- 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\_bpm4ecX\_mean vs Slug



Right In: 2.067+/-7.293  $\chi^2/\text{NDF}$ : 9.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14.573+/-6.606  $\chi^2/\text{NDF}$ : 7.3/9

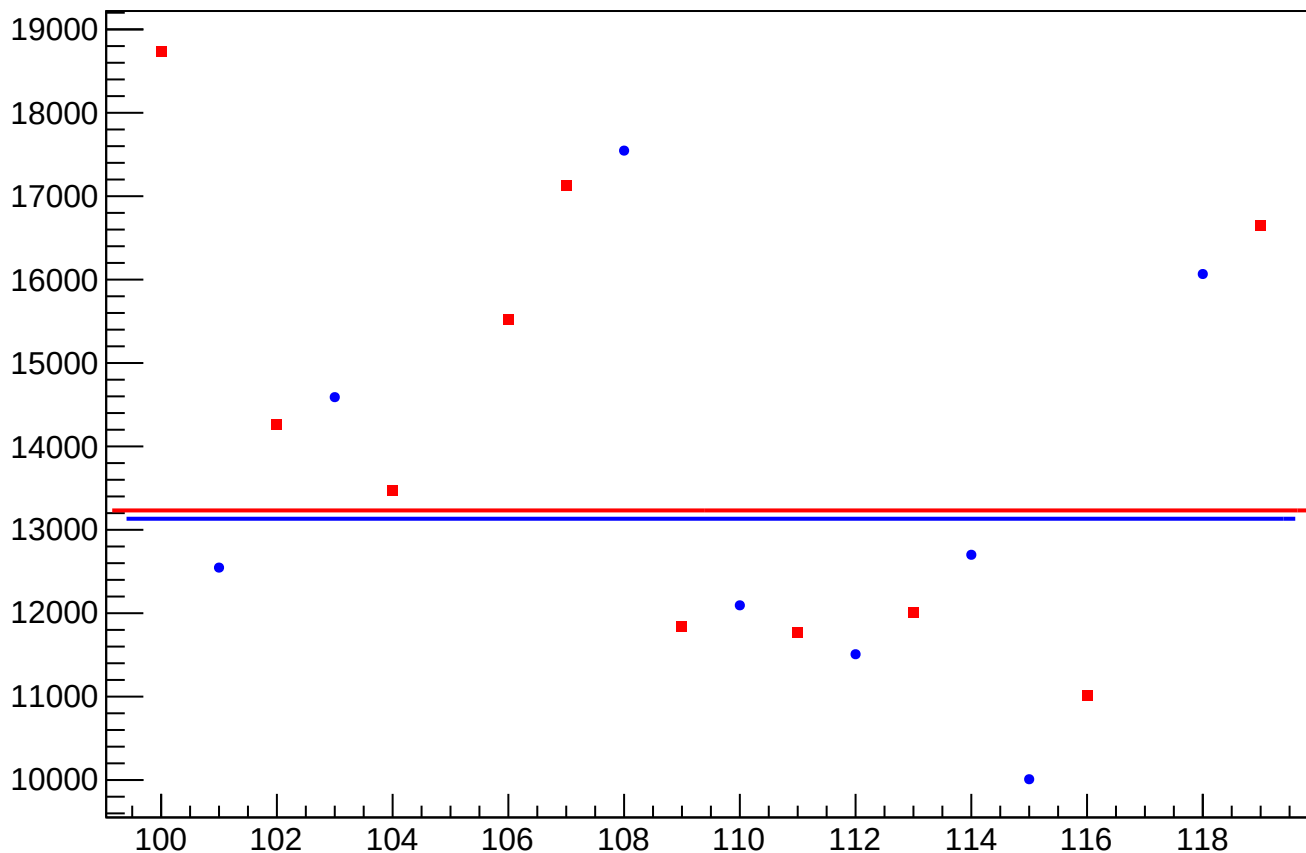
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.074+/-4.896  $\chi^2/\text{NDF}$ : 19.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4ecX\_rms vs Slug



Right In: 13132.730+/-5.157  $\chi^2/\text{NDF}$ : 153915.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13232.427+/-4.671  $\chi^2/\text{NDF}$ : 167335.9/9

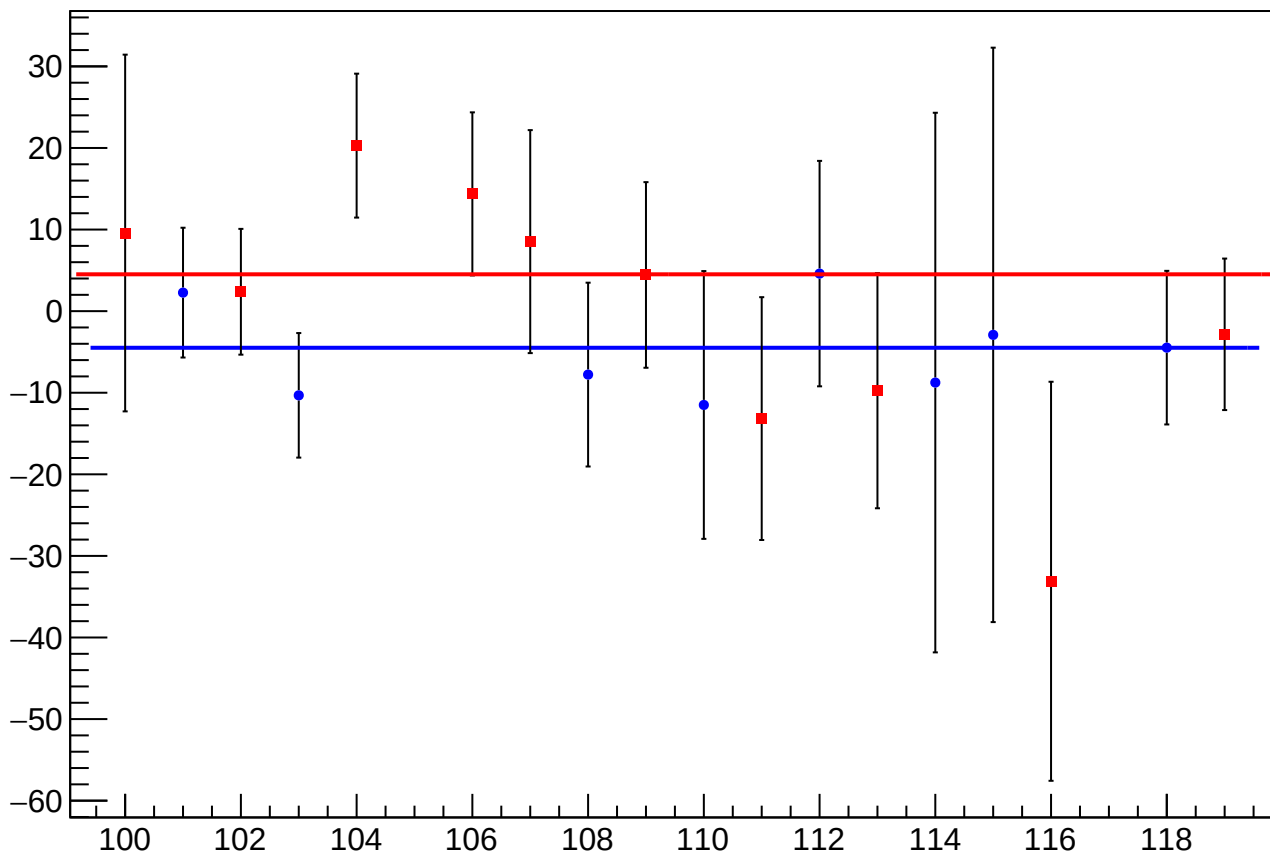
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13187.497+/-3.462  $\chi^2/\text{NDF}$ : 321456.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4ecY\_mean vs Slug



Right In:  $-4.489 \pm 3.990$   $\chi^2/\text{NDF}$ : 2.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $4.516 \pm 3.593$   $\chi^2/\text{NDF}$ : 9.8/9

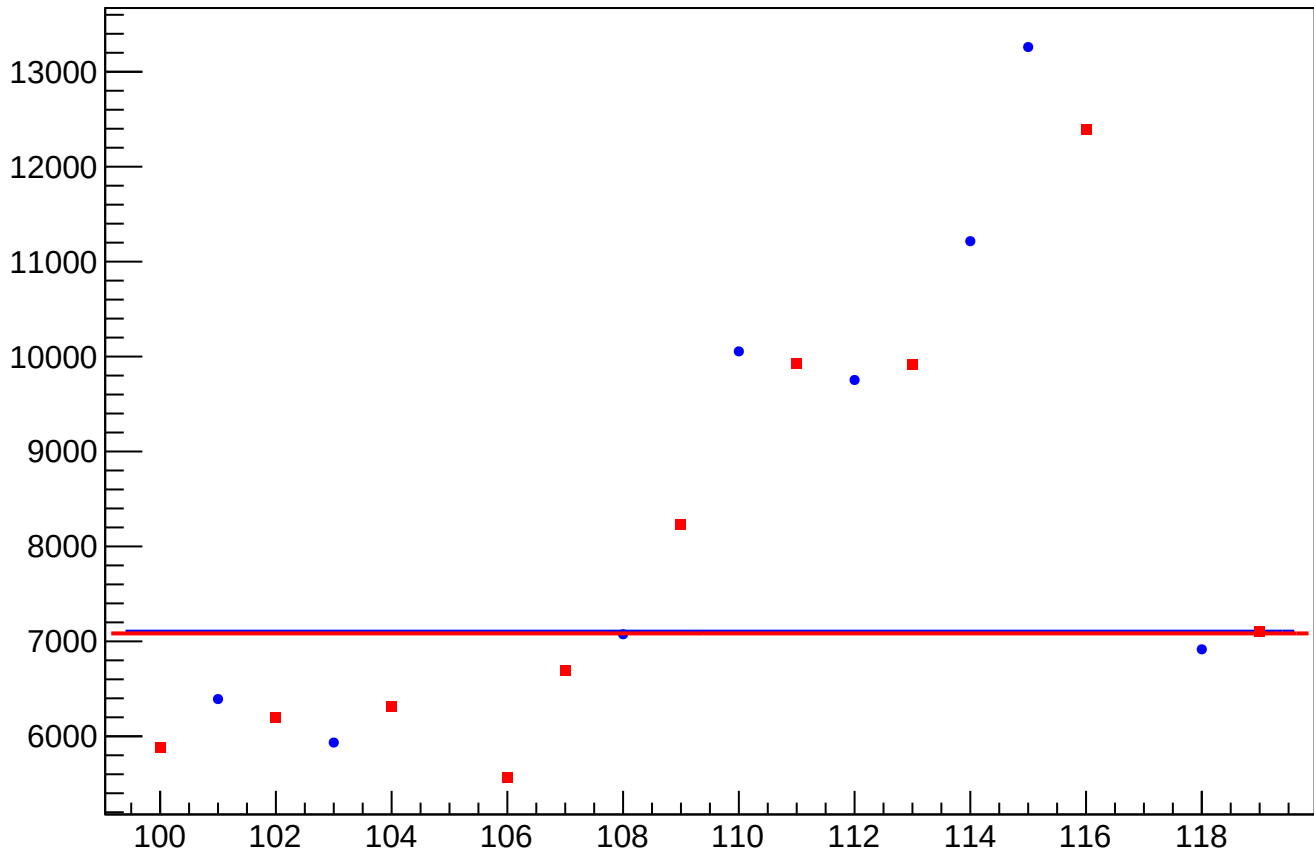
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.484 \pm 2.670$   $\chi^2/\text{NDF}$ : 14.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4ecY\_rms vs Slug



Right In: 7102.138+/-2.821  $\chi^2/\text{NDF}$ : 294068.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7083.795+/-2.540  $\chi^2/\text{NDF}$ : 359784.5/9

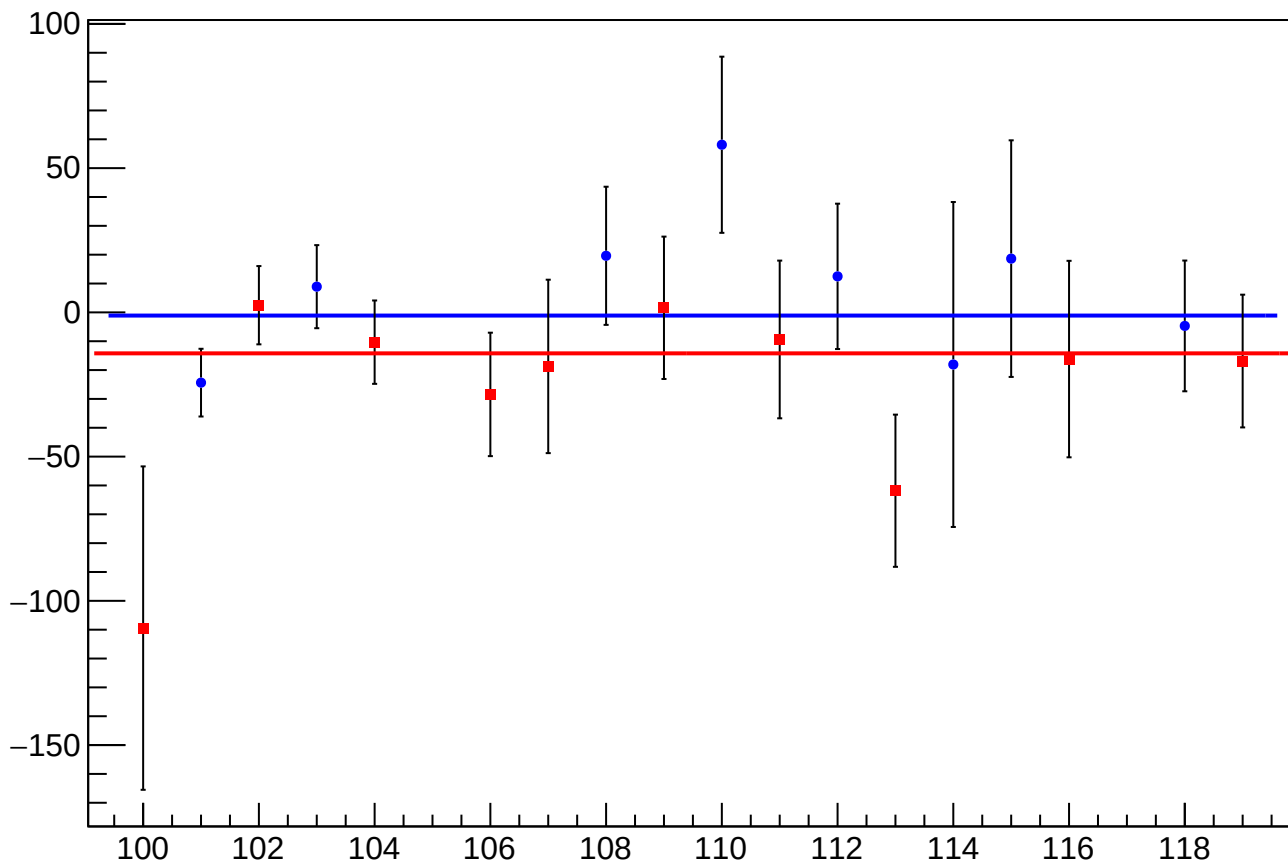
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7092.007+/-1.888  $\chi^2/\text{NDF}$ : 653876.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1X\_mean vs Slug



Right In: -1.106+/-7.193  $\chi^2/\text{NDF}$ : 9.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14.204+/-6.901  $\chi^2/\text{NDF}$ : 8.7/9

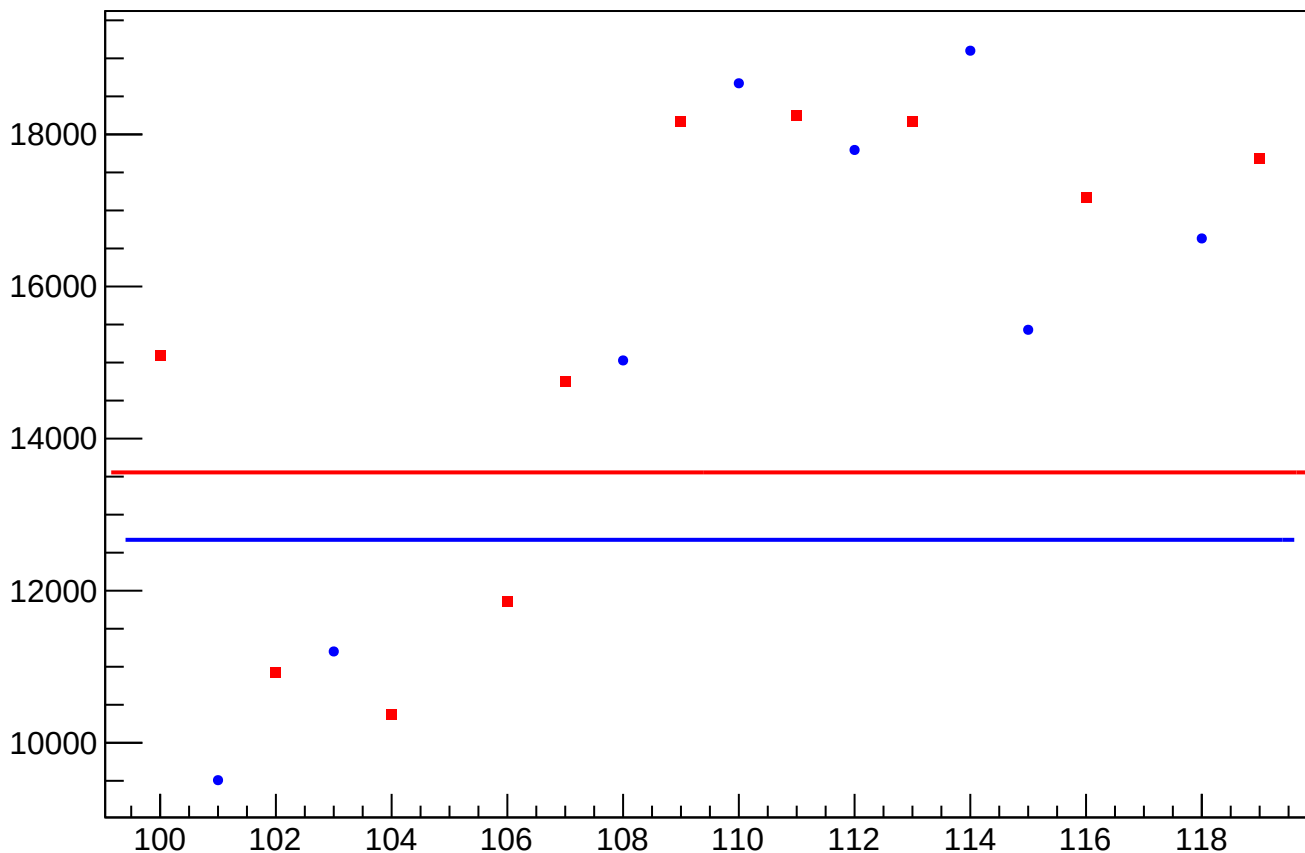
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.926+/-4.980  $\chi^2/\text{NDF}$ : 19.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1X\_rms vs Slug



Right In: 12669.066+/-5.086  $\chi^2/\text{NDF}$ : 441600.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13555.466+/-4.880  $\chi^2/\text{NDF}$ : 466074.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

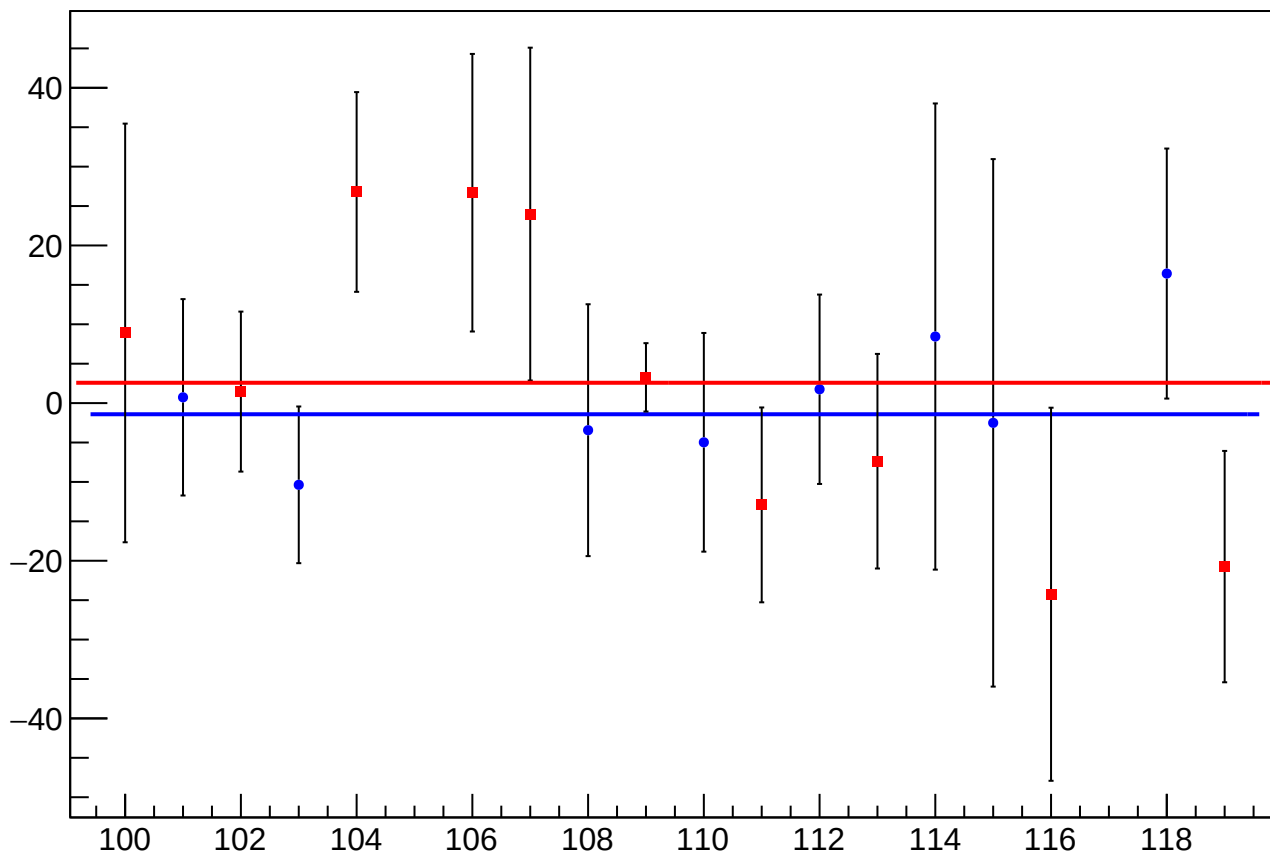
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13130.616+/-3.521  $\chi^2/\text{NDF}$ : 923490.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm1Y\_mean vs Slug



Right In: -1.414+/-5.088  $\chi^2/\text{NDF}$ : 2.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.580+/-3.255  $\chi^2/\text{NDF}$ : 12.6/9

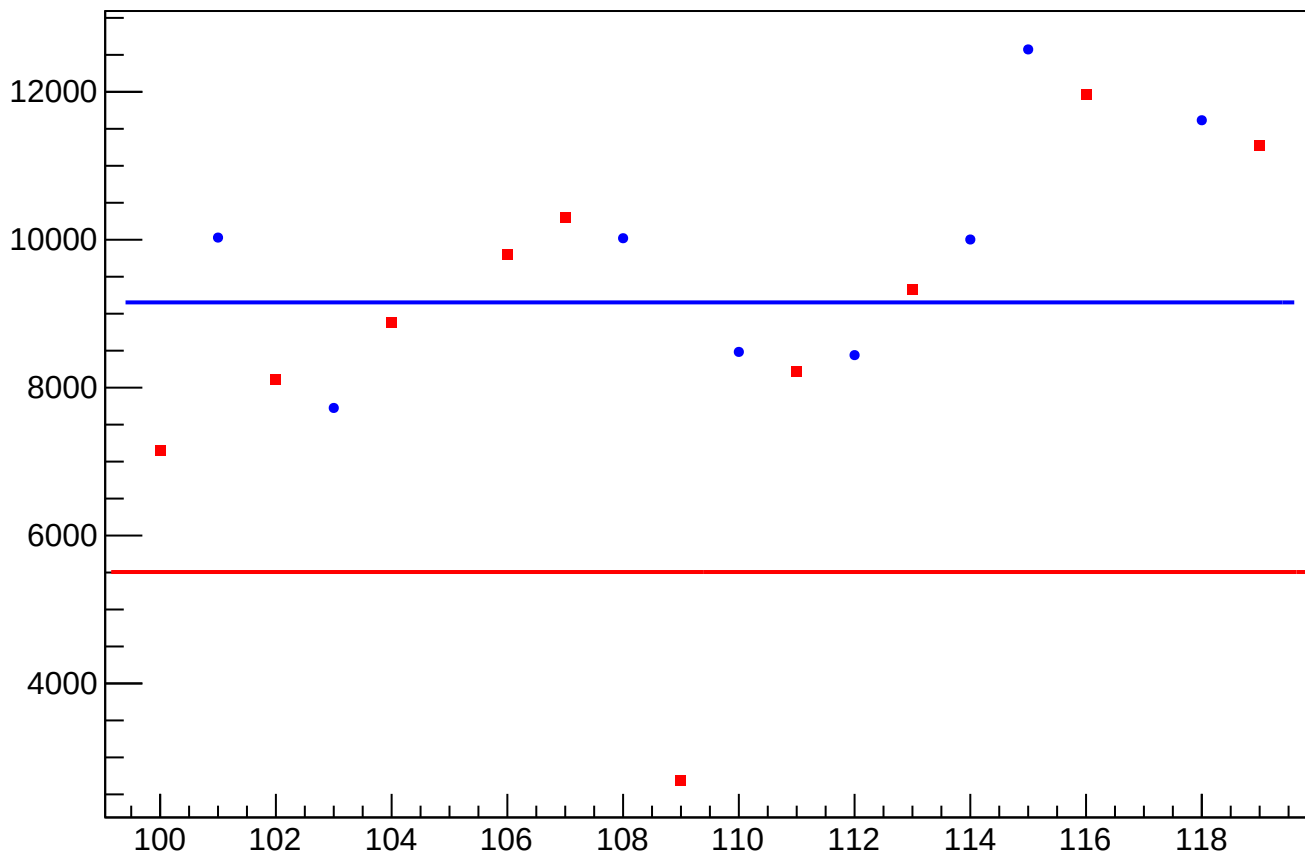
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.420+/-2.742  $\chi^2/\text{NDF}$ : 15.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1Y\_rms vs Slug



Right In: 9152.806 $\pm$ 3.598  $\chi^2$ /NDF: 139531.0/7

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

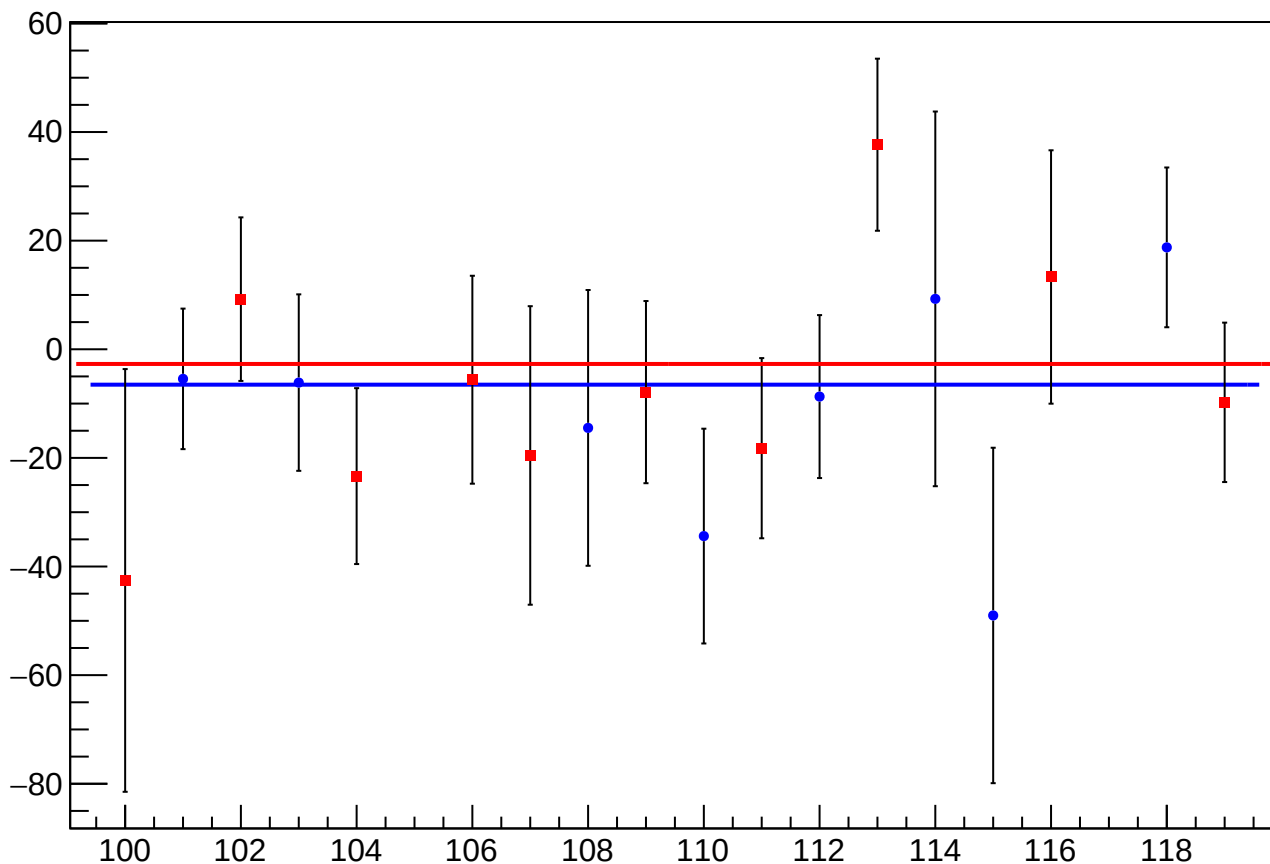
Right Out: 5506.987 $\pm$ 2.302  $\chi^2$ /NDF: 2062063.9/9

All: 6565.751 $\pm$ 1.939  $\chi^2$ /NDF: 2930141.7/17

- 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\_bpm11X\_mean vs Slug



Right In: -6.517+/-6.347  $\chi^2$ /NDF: 7.2/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.704+/-5.717  $\chi^2$ /NDF: 11.9/9

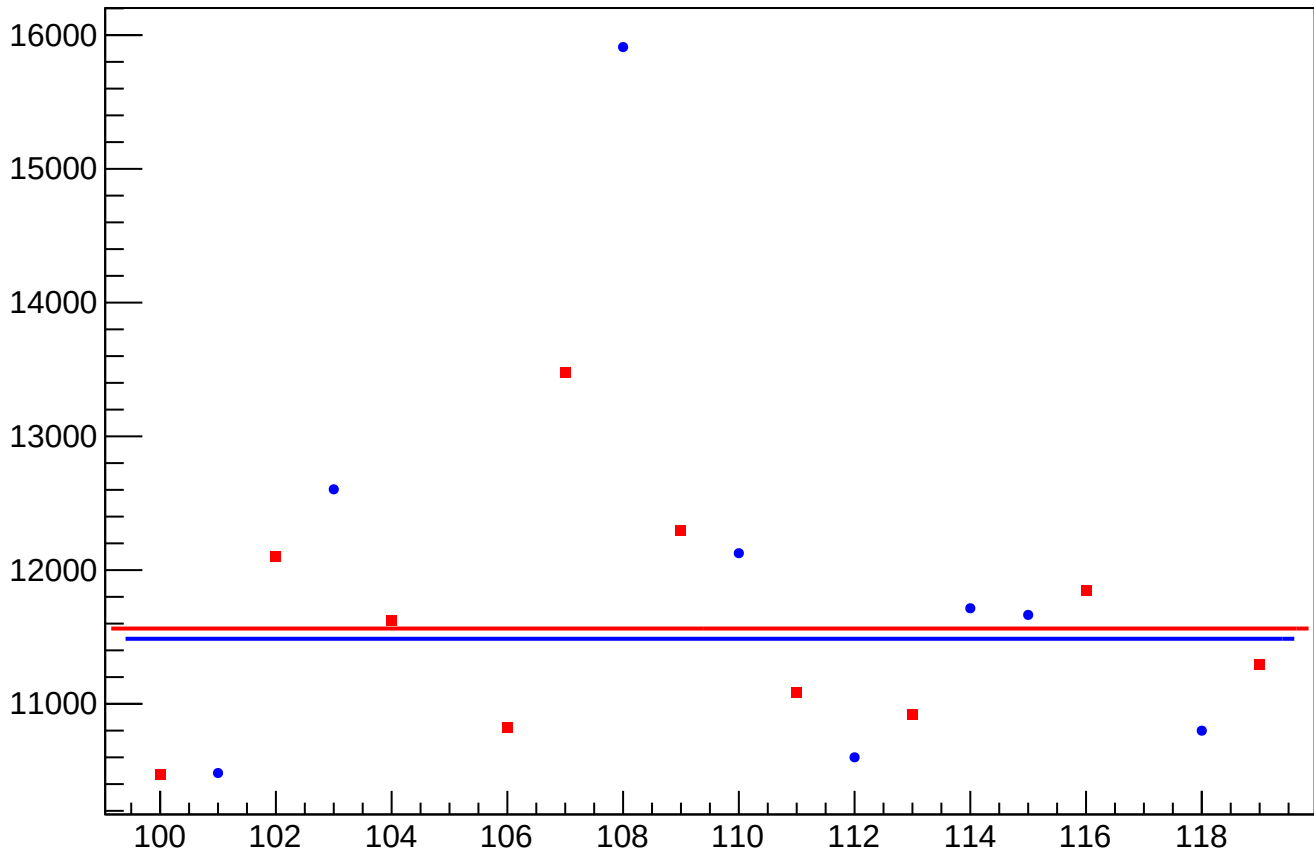
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -4.412+/-4.248  $\chi^2$ /NDF: 19.2/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm11X\_rms vs Slug



Right In: 11486.563+/-4.488  $\chi^2/\text{NDF}$ : 95822.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11563.154+/-4.043  $\chi^2/\text{NDF}$ : 26577.3/9

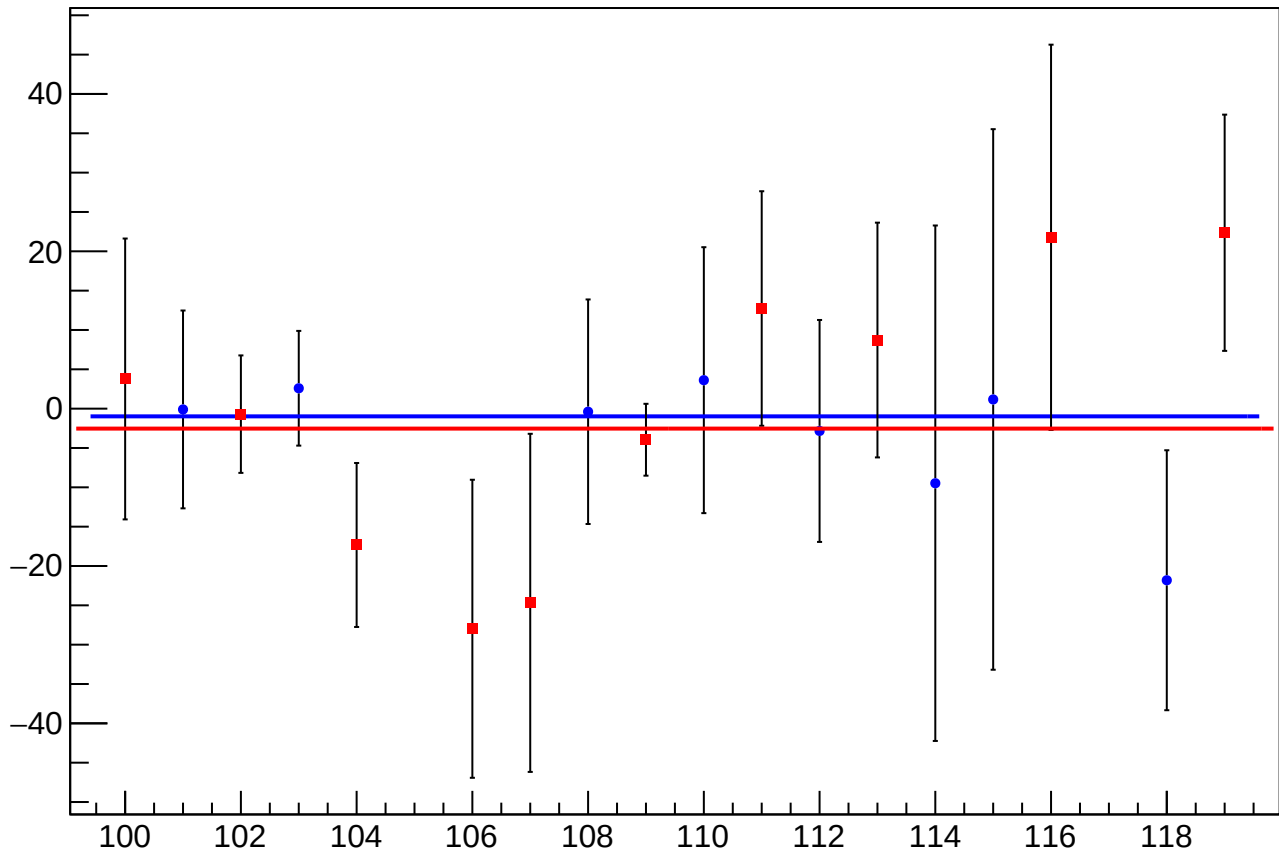
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11528.842+/-3.004  $\chi^2/\text{NDF}$ : 122560.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm11Y\_mean vs Slug



Right In:  $-0.979 \pm 4.767$   $\chi^2/\text{NDF}: 2.0/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-2.535 \pm 3.190$   $\chi^2/\text{NDF}: 10.5/9$

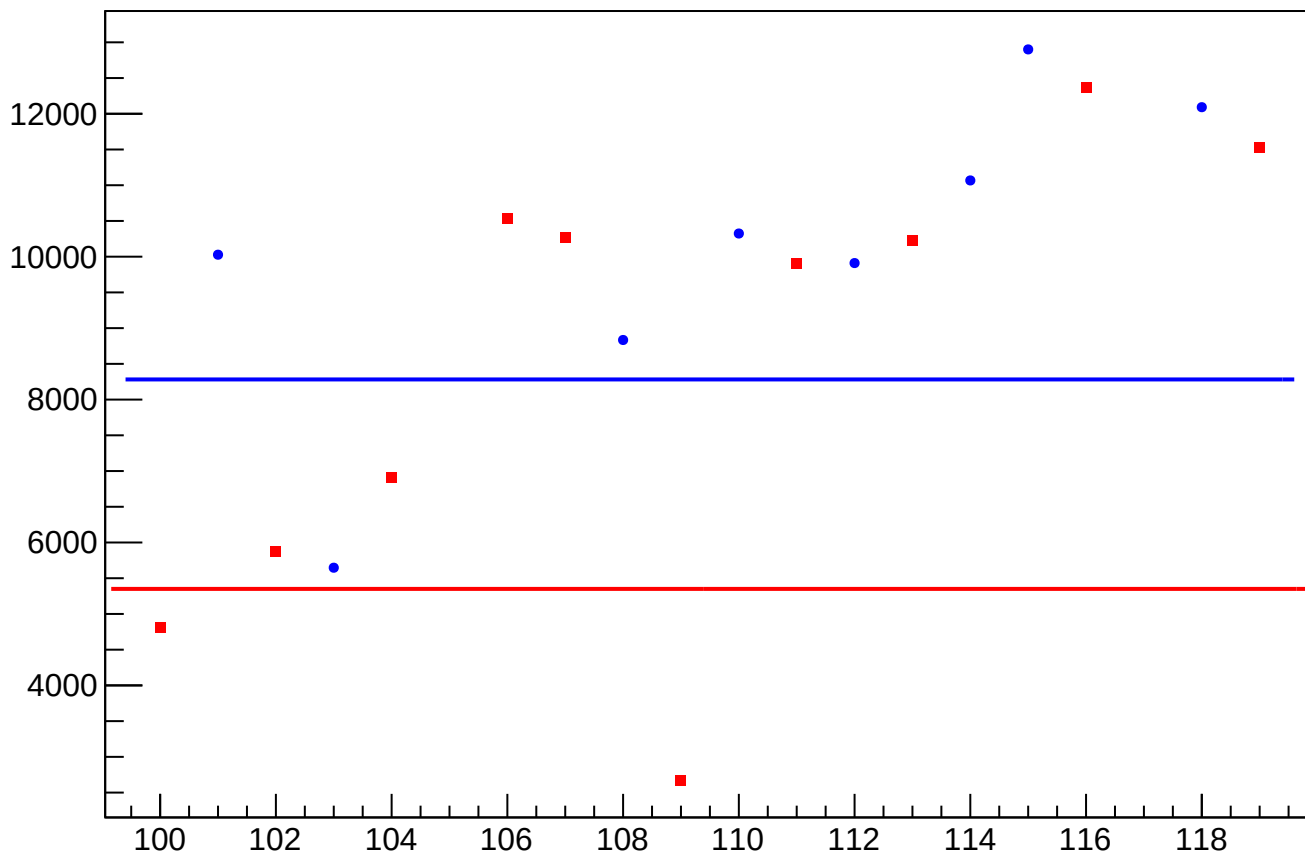
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-2.054 \pm 2.651$   $\chi^2/\text{NDF}: 12.6/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# diff\_bpm11Y\_rms vs Slug



Right In: 8281.932+/-3.370  $\chi^2/\text{NDF}$ : 515558.7/7

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

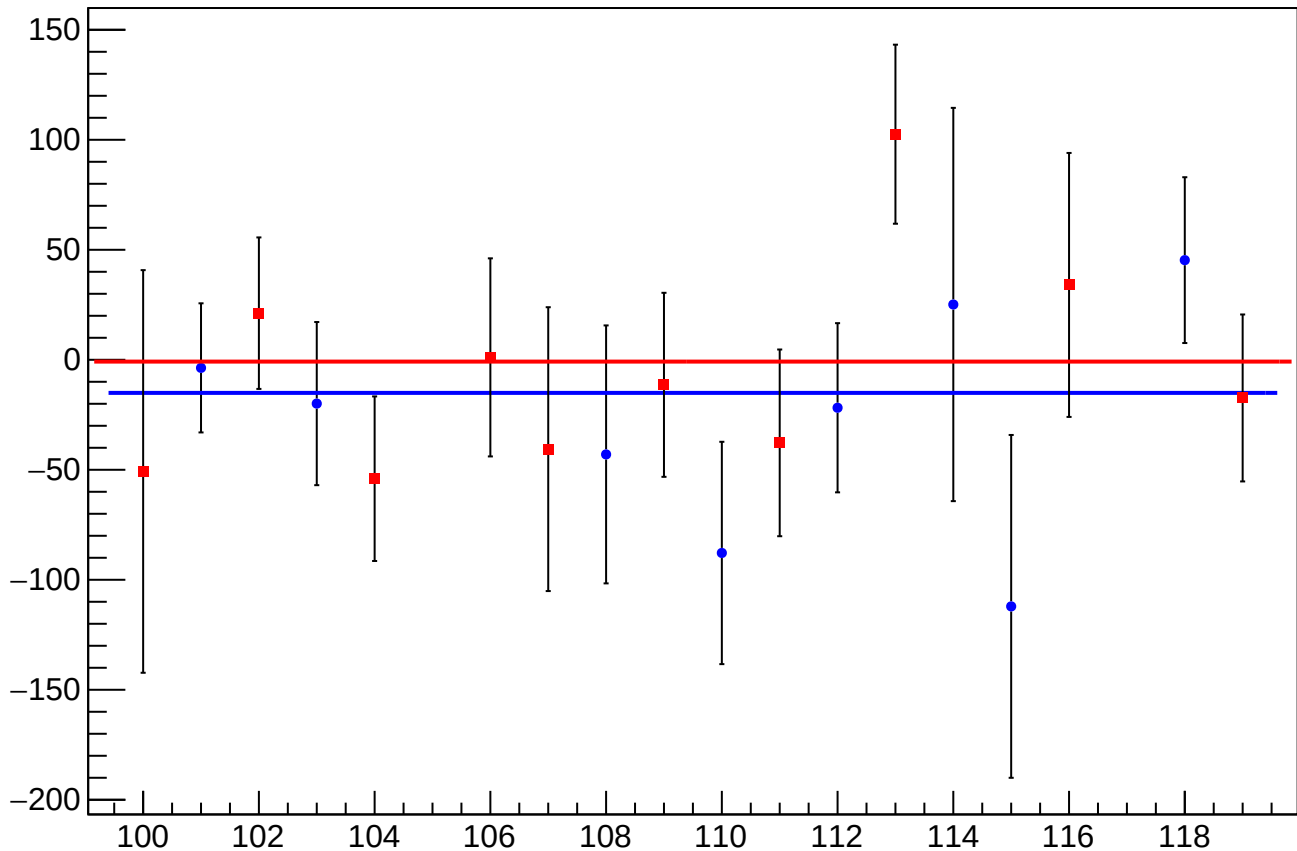
Right Out: 5350.599+/-2.255  $\chi^2/\text{NDF}$ : 1904573.4/9

All: 6257.241+/-1.874  $\chi^2/\text{NDF}$ : 2942587.2/17

- 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\_bpm12X\_mean vs Slug



Right In: -15.046 $\pm$ 15.355  $\chi^2$ /NDF: 6.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.822 $\pm$ 13.983  $\chi^2$ /NDF: 10.9/9

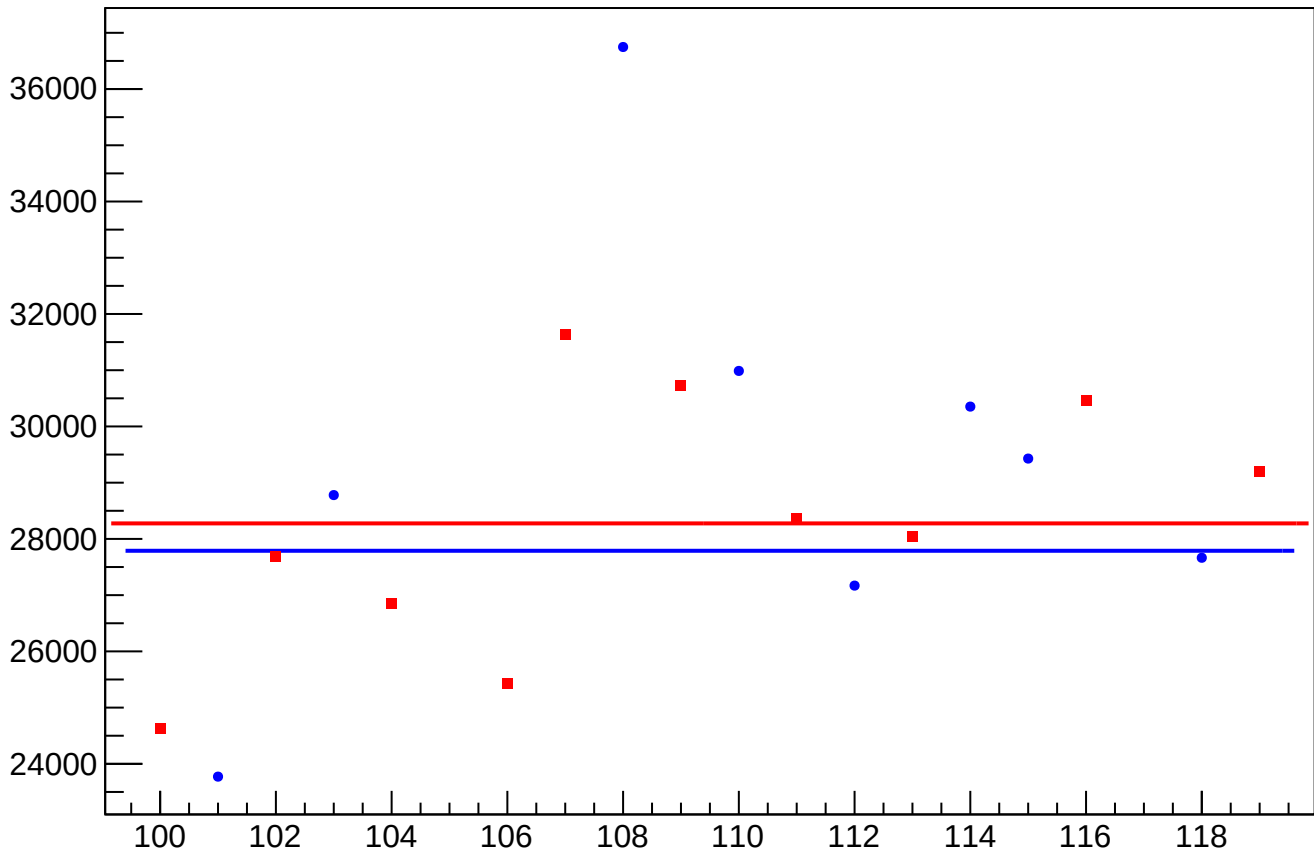
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -7.270 $\pm$ 10.339  $\chi^2$ /NDF: 18.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm12X\_rms vs Slug



Right In: 27788.972 $\pm$ 10.858  $\chi^2$ /NDF: 96675.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28275.825 $\pm$ 9.887  $\chi^2$ /NDF: 30871.2/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

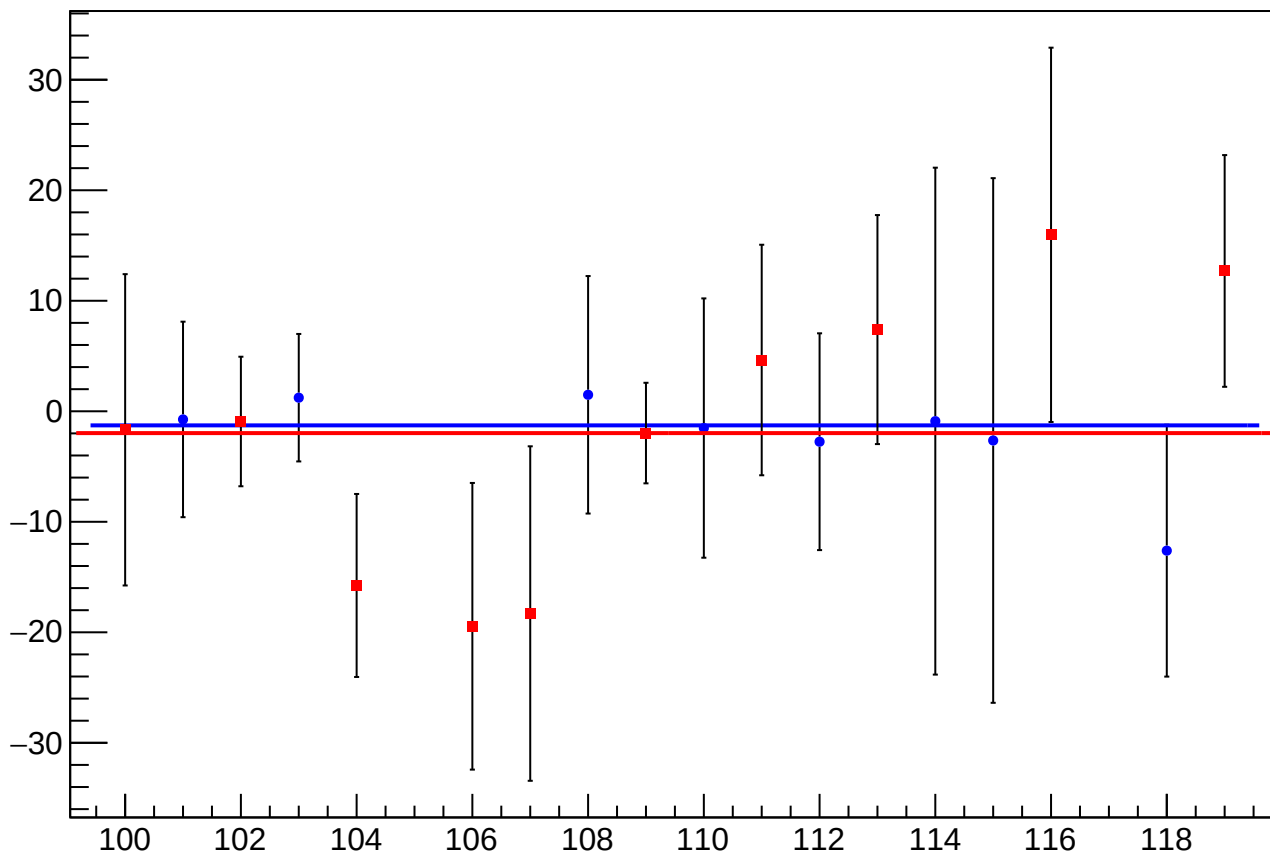
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28055.116 $\pm$ 7.310  $\chi^2$ /NDF: 128645.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm12Y\_mean vs Slug



Right In: -1.275+/-3.524  $\chi^2/\text{NDF}$ : 1.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.974+/-2.688  $\chi^2/\text{NDF}$ : 10.1/9

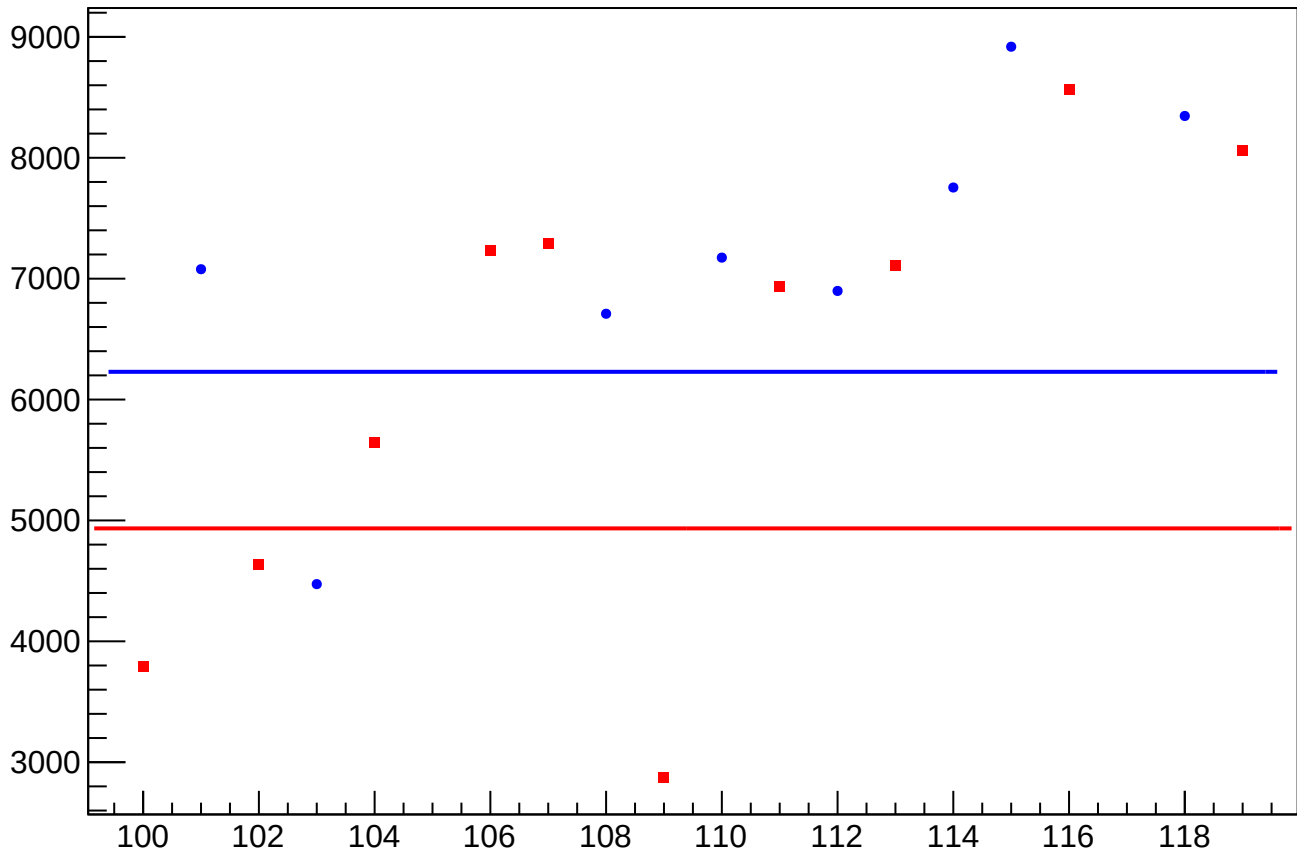
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.717+/-2.137  $\chi^2/\text{NDF}$ : 11.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm12Y\_rms vs Slug



Right In: 6229.457 $\pm$ 2.492  $\chi^2$ /NDF: 333611.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4934.207 $\pm$ 1.900  $\chi^2$ /NDF: 985649.0/9

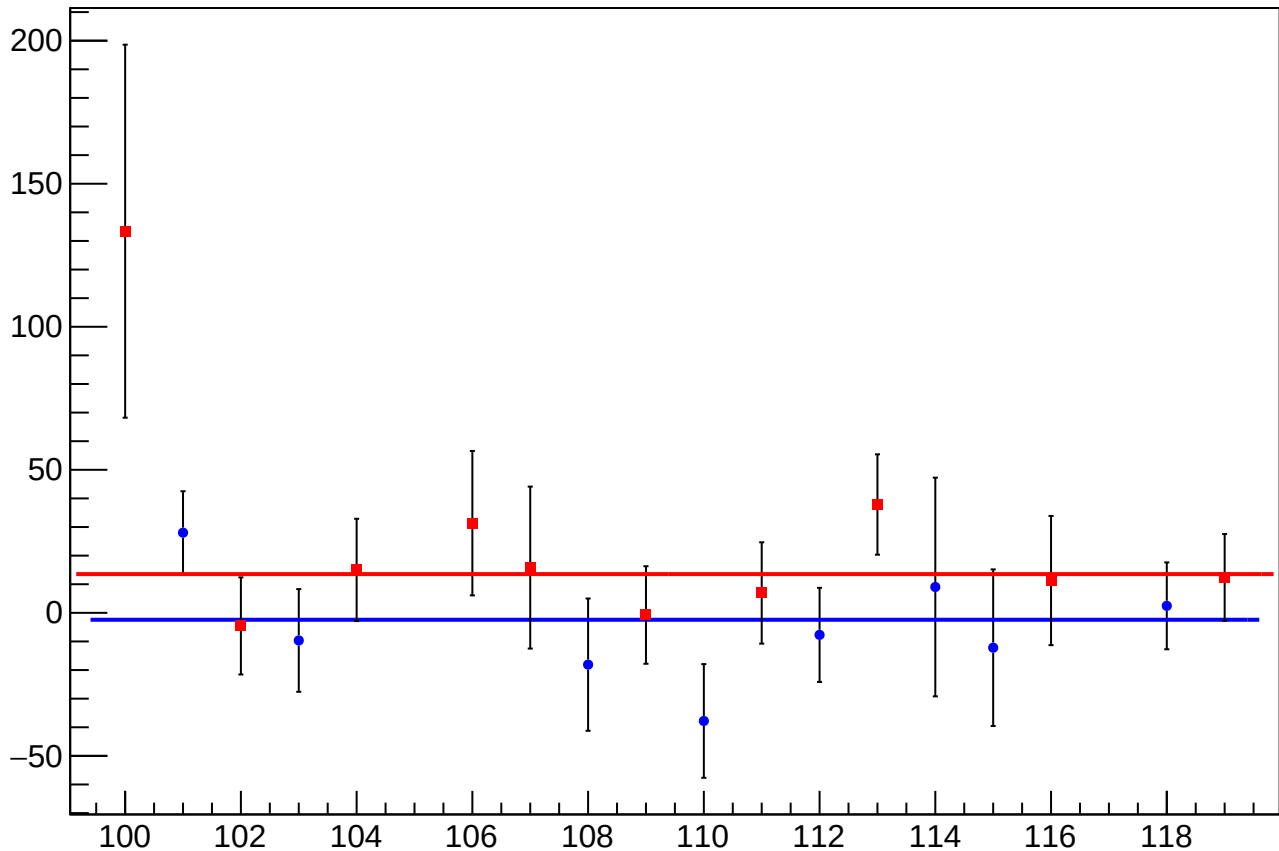
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5410.571 $\pm$ 1.511  $\chi^2$ /NDF: 1490103.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm16X\_mean vs Slug



Right In:  $-2.418 \pm 6.692$   $\chi^2/\text{NDF}$ : 8.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $13.542 \pm 6.221$   $\chi^2/\text{NDF}$ : 7.8/9

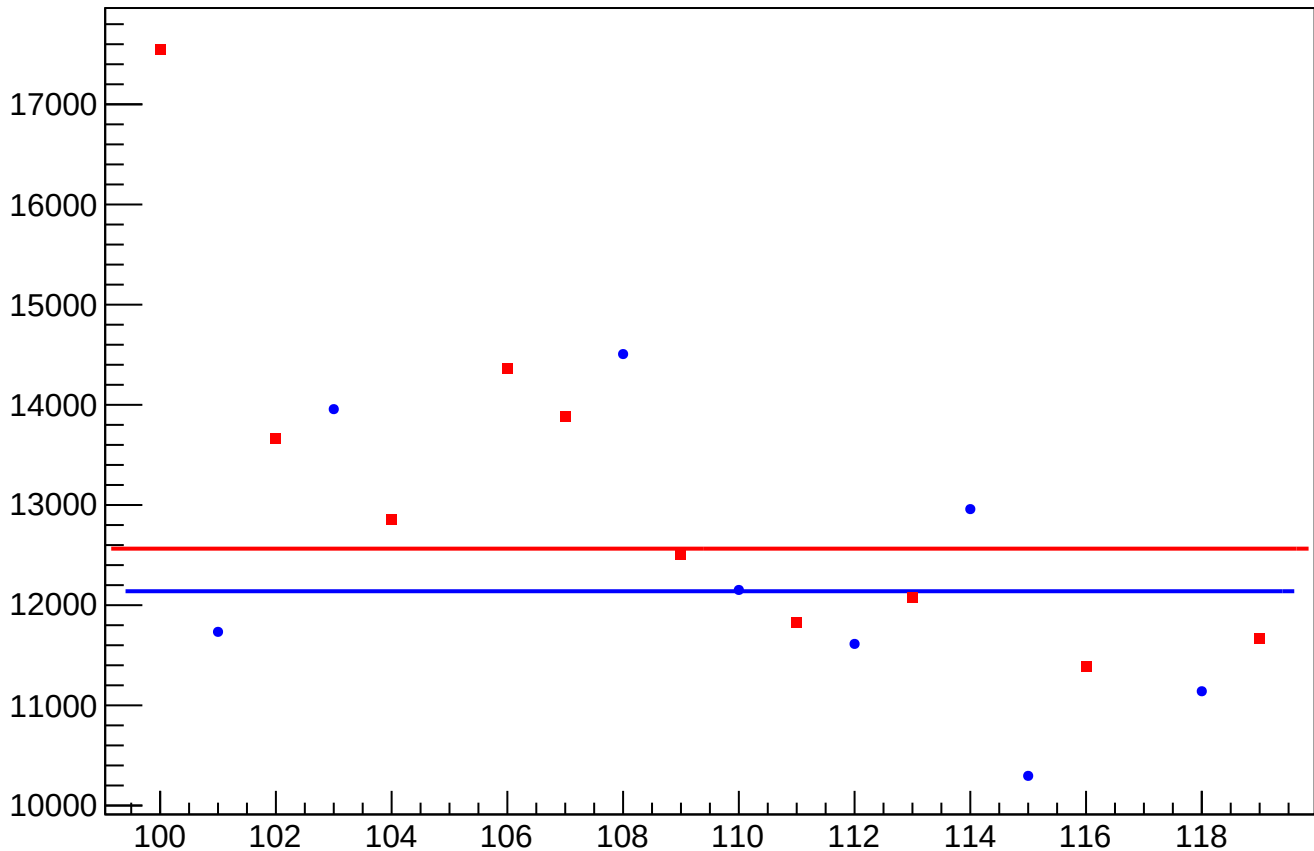
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $6.143 \pm 4.557$   $\chi^2/\text{NDF}$ : 19.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm16X\_rms vs Slug



Right In: 12139.226+/-4.732  $\chi^2/\text{NDF}$ : 63737.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12564.353+/-4.399  $\chi^2/\text{NDF}$ : 52577.5/9

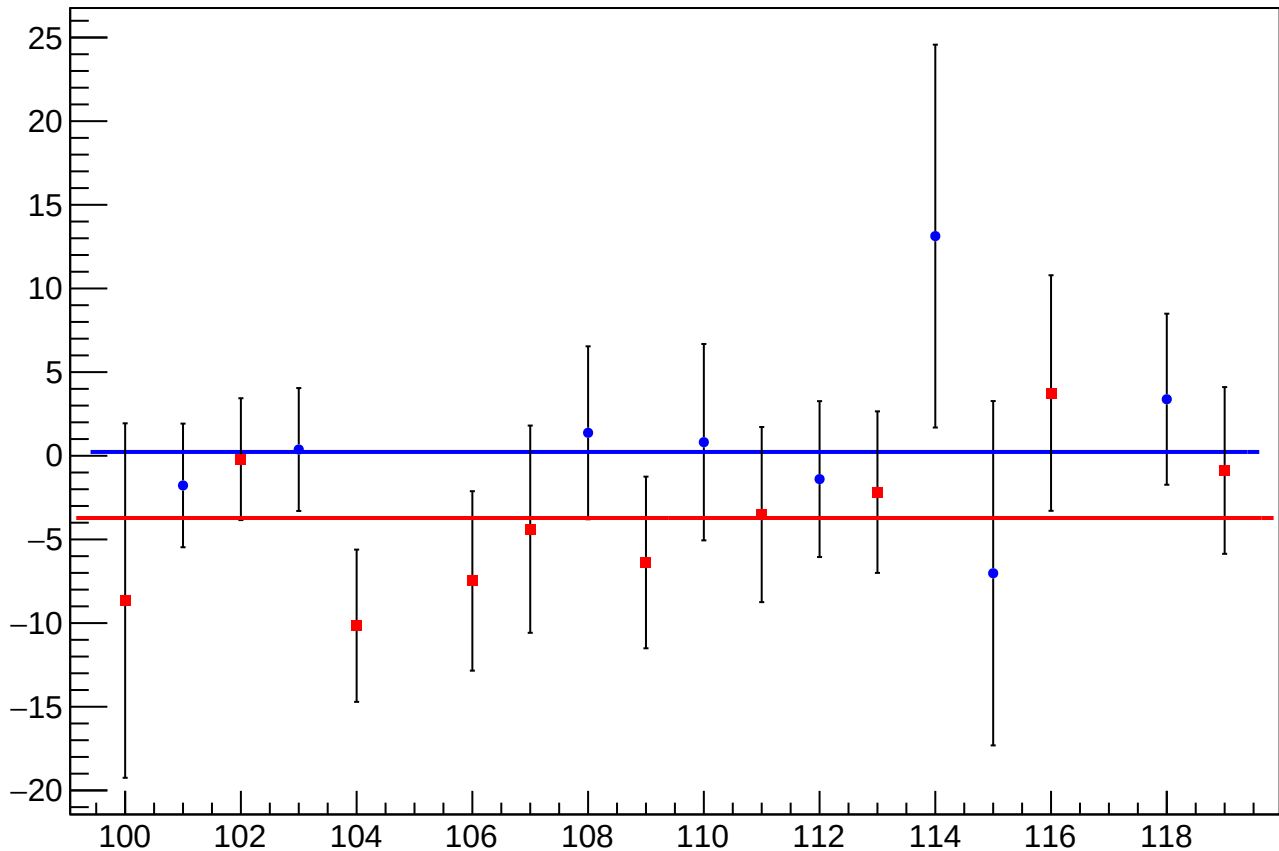
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12367.276+/-3.222  $\chi^2/\text{NDF}$ : 120643.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm16Y\_mean vs Slug



Right In: 0.229 $\pm$ 1.781  $\chi^2$ /NDF: 2.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.719 $\pm$ 1.641  $\chi^2$ /NDF: 5.5/9

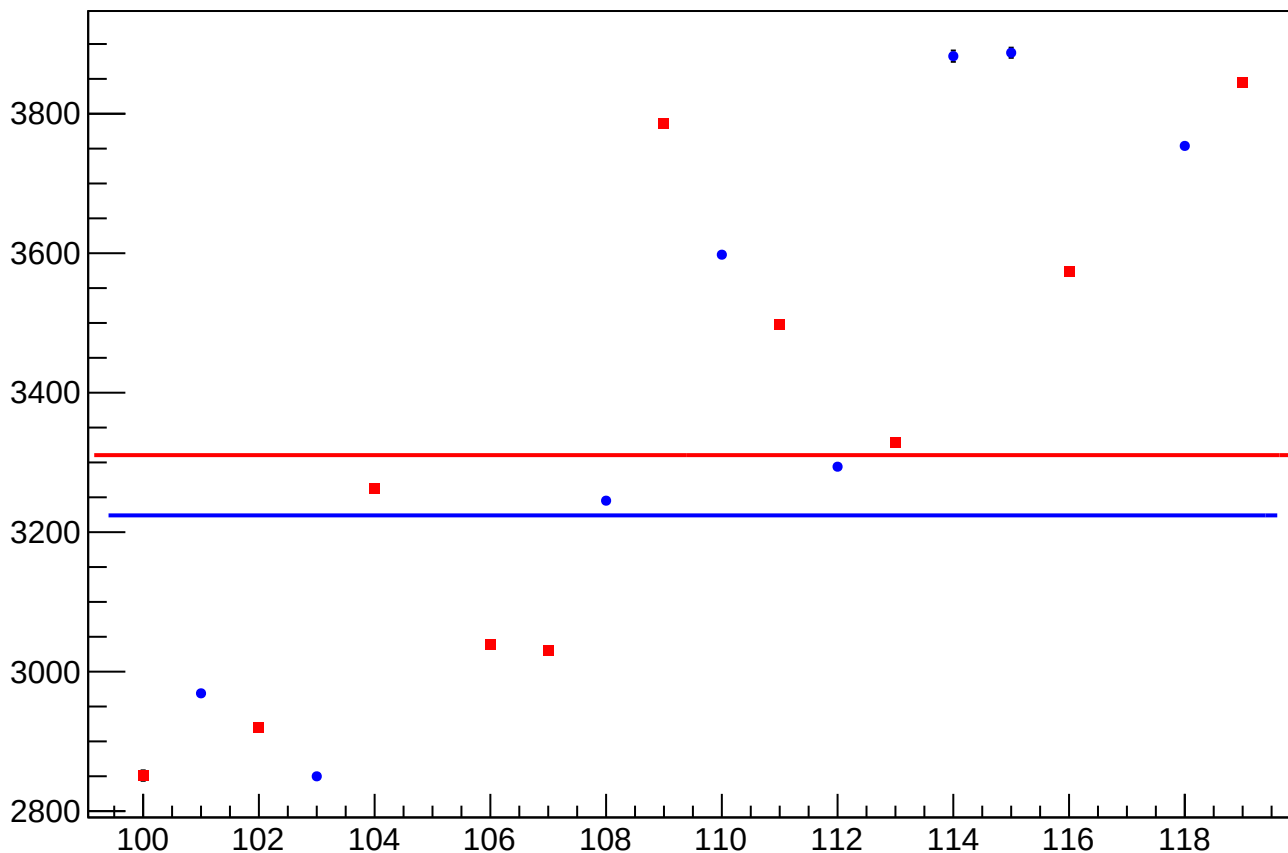
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.906 $\pm$ 1.207  $\chi^2$ /NDF: 10.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm16Y\_rms vs Slug



Right In: 3224.071+/-1.259  $\chi^2/\text{NDF}$ : 75315.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3310.471+/-1.160  $\chi^2/\text{NDF}$ : 81643.1/9

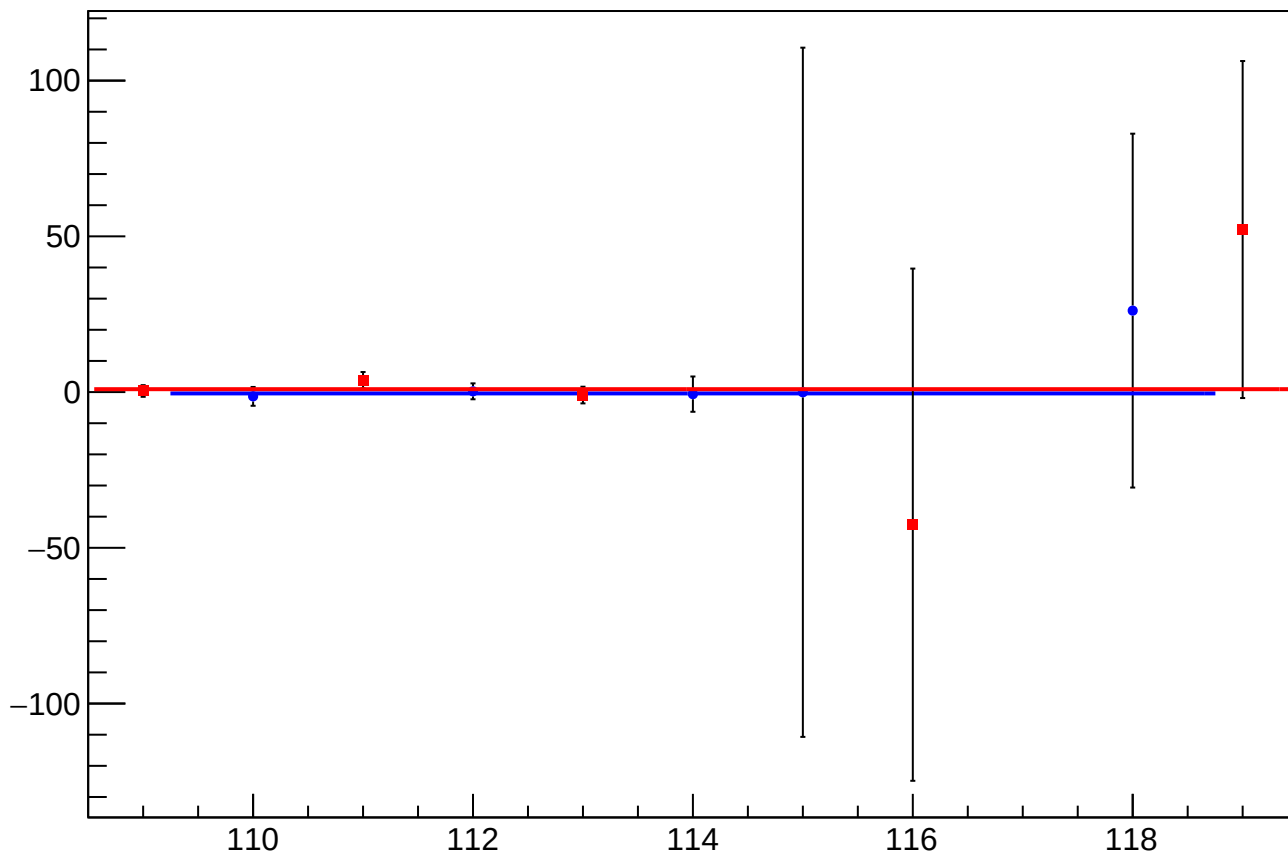
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3270.797+/-0.853  $\chi^2/\text{NDF}$ : 159504.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1p02bX\_mean vs Slug



Right In:  $-0.428 \pm 1.843$   $\chi^2/\text{NDF}$ : 0.4/4

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.933 \pm 1.324$   $\chi^2/\text{NDF}$ : 3.0/4

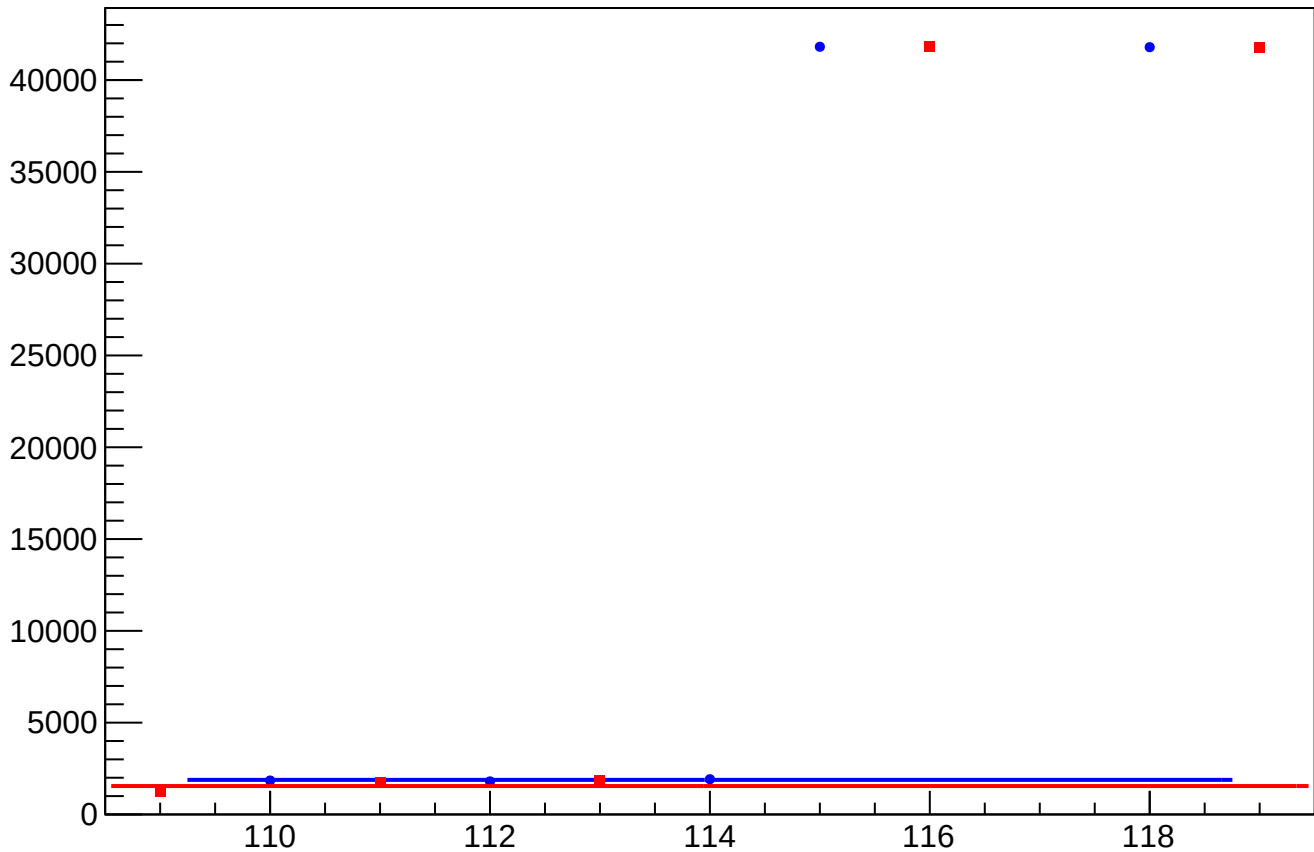
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.470 \pm 1.075$   $\chi^2/\text{NDF}$ : 3.7/9

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1p02bX\_rms vs Slug



Right In: 1884.024+/-1.303  $\chi^2/\text{NDF}$ : 1249979.6/4

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: 1547.454+/-0.936  $\chi^2/\text{NDF}$ : 1678797.1/4

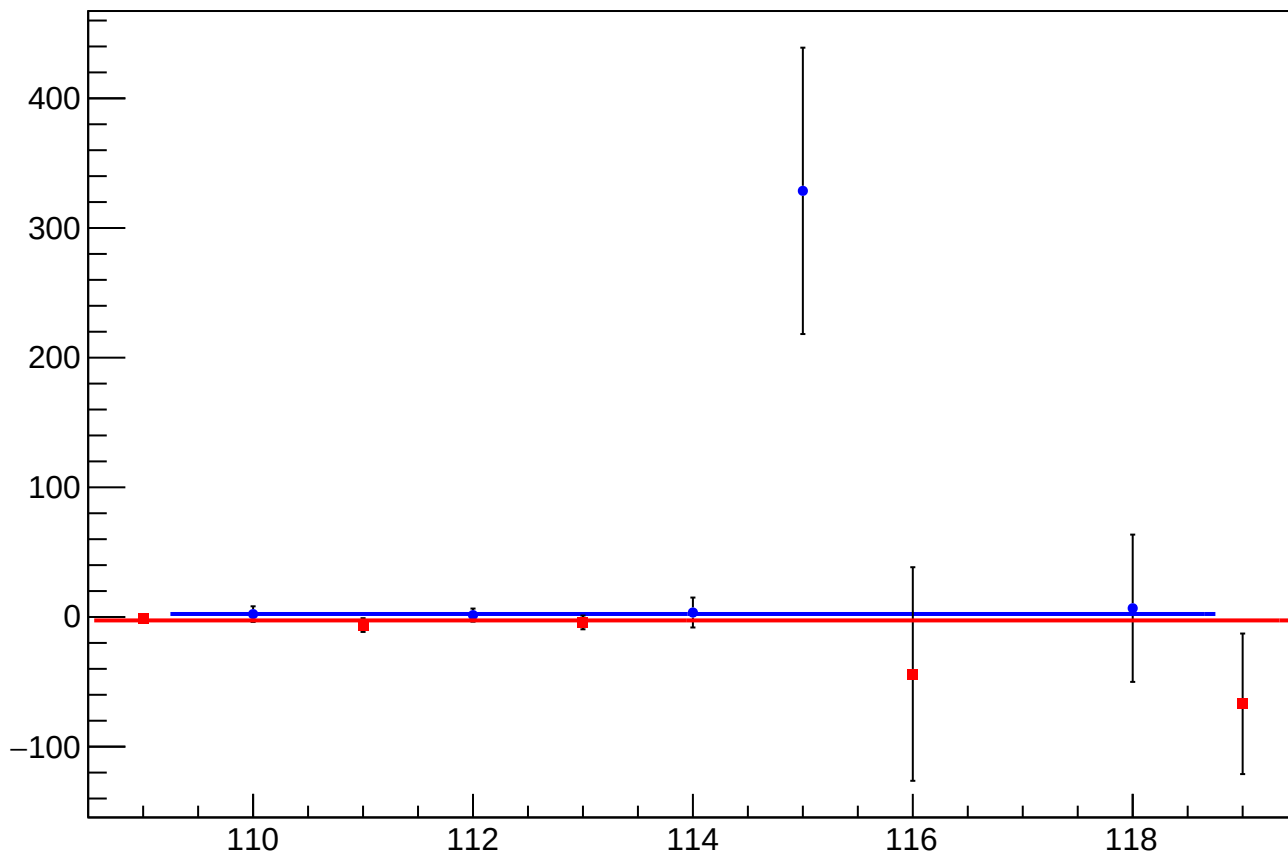
All: 1662.012+/-0.760  $\chi^2/\text{NDF}$ : 2972758.0/9

- 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\_bpm1p02bY\_mean vs Slug



Right In:  $2.320 \pm 3.653$   $\chi^2/\text{NDF}: 8.8/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-2.641 \pm 2.275$   $\chi^2/\text{NDF}: 2.6/4$

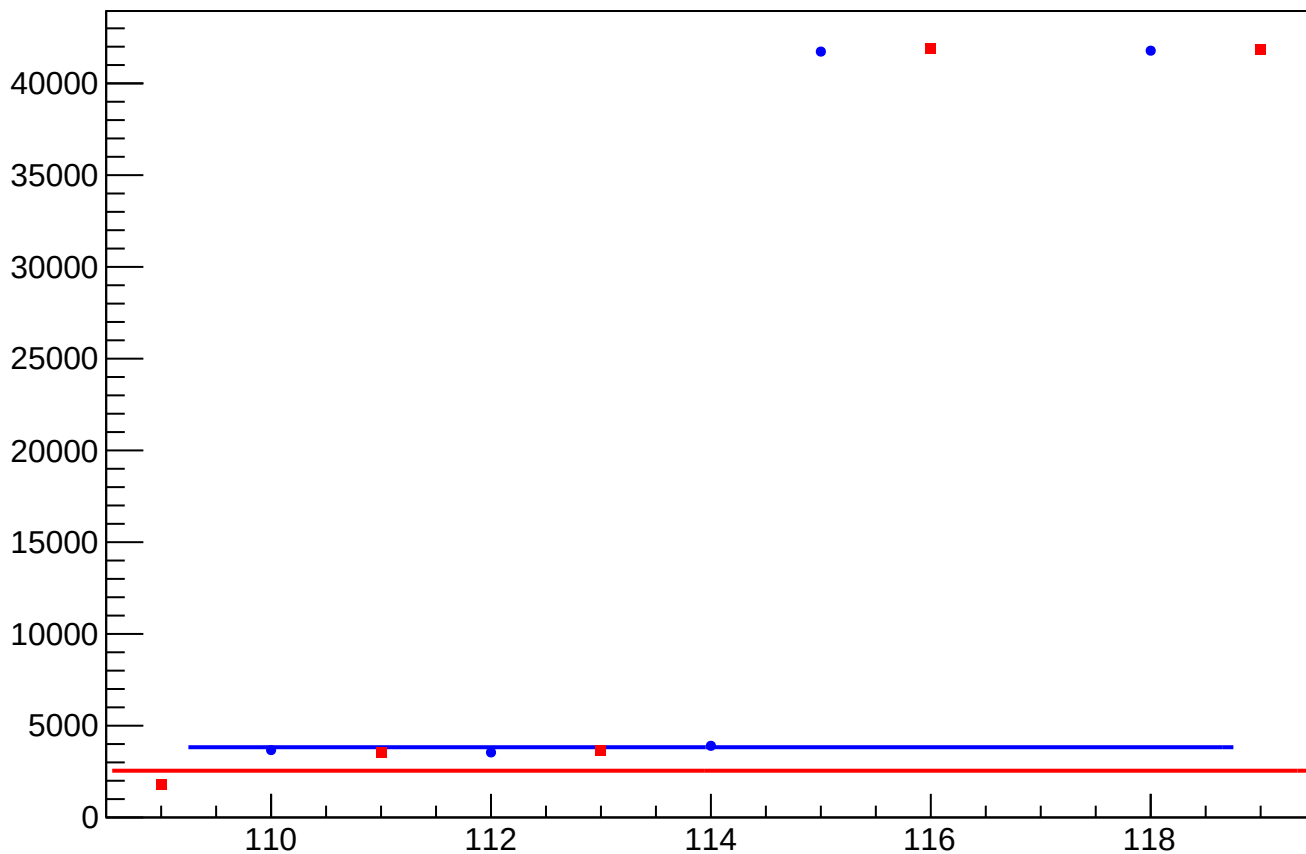
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-1.254 \pm 1.931$   $\chi^2/\text{NDF}: 12.7/9$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# diff\_bpm1p02bY\_rms vs Slug



Right In: 3827.381+/-2.583  $\chi^2/\text{NDF}$ : 1136576.5/4

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2547.289+/-1.609  $\chi^2/\text{NDF}$ : 1803182.4/4

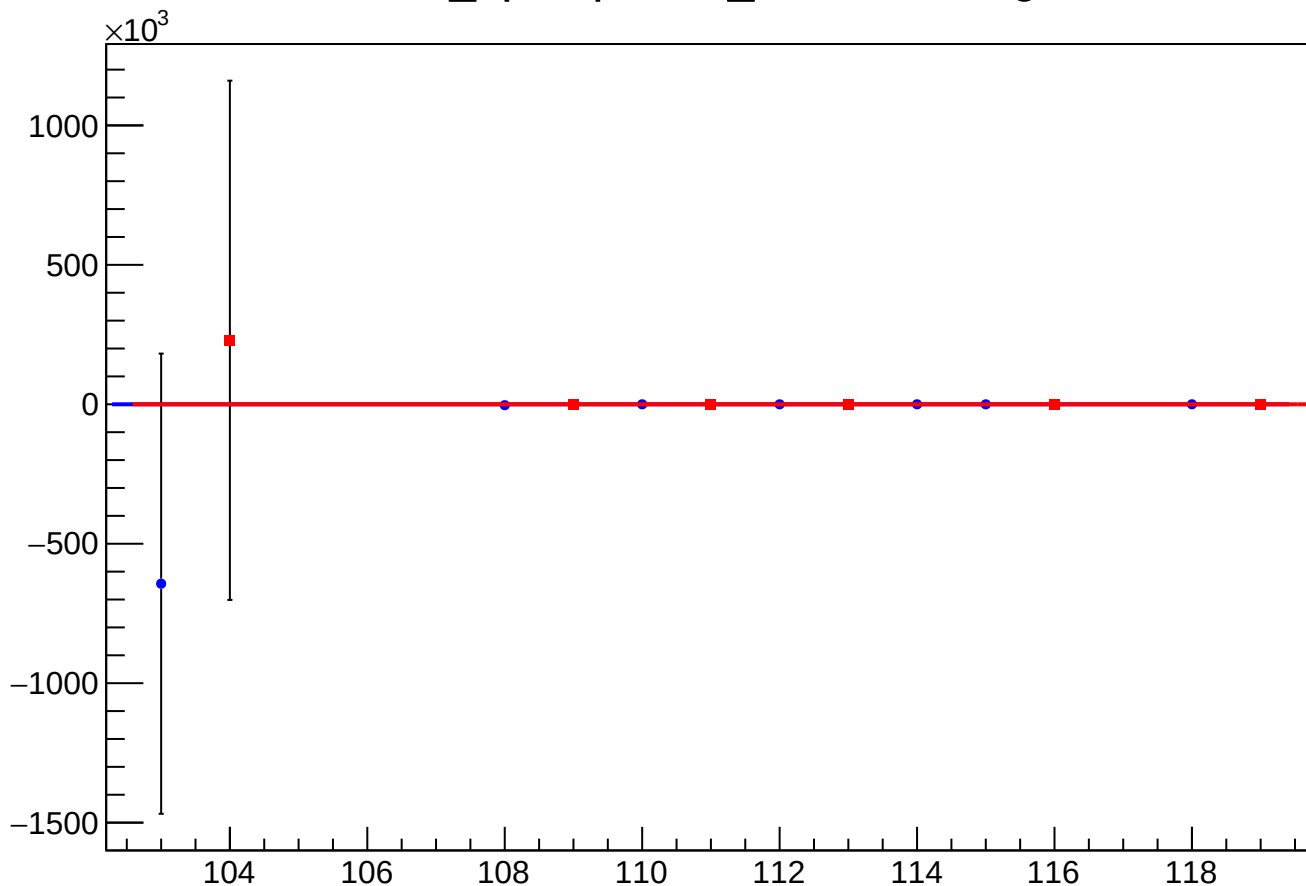
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2905.091+/-1.366  $\chi^2/\text{NDF}$ : 3116684.3/9

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1p03aX\_mean vs Slug



Right In: 4.914 $\pm$ 2.963  $\chi^2$ /NDF: 7.4/6

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.580 $\pm$ 2.473  $\chi^2$ /NDF: 7.7/5

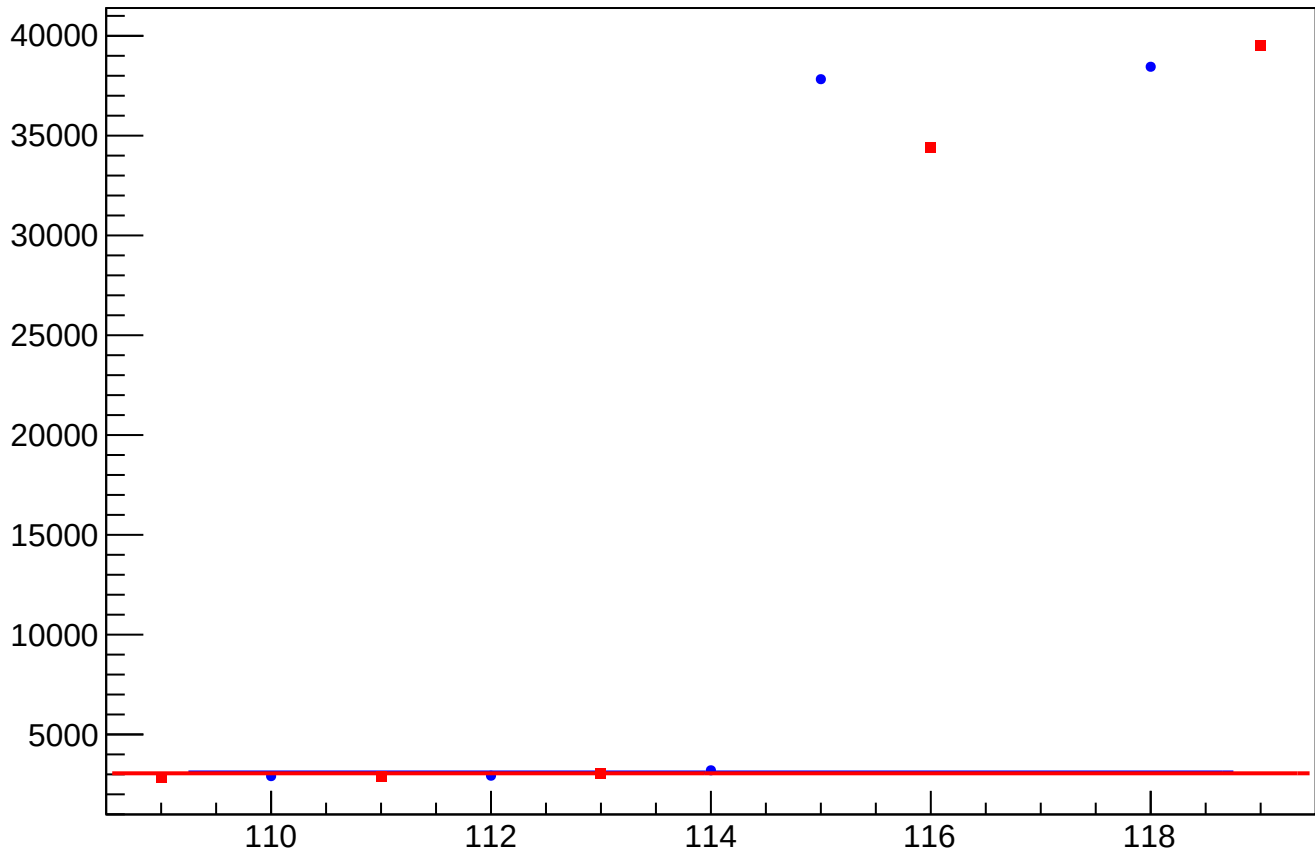
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.092 $\pm$ 1.899  $\chi^2$ /NDF: 20.0/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1p03aX\_rms vs Slug



Right In:  $3095.493 \pm 2.095$   $\chi^2/\text{NDF}: 1156312.9/4$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $3053.098 \pm 1.749$   $\chi^2/\text{NDF}: 1451954.0/4$

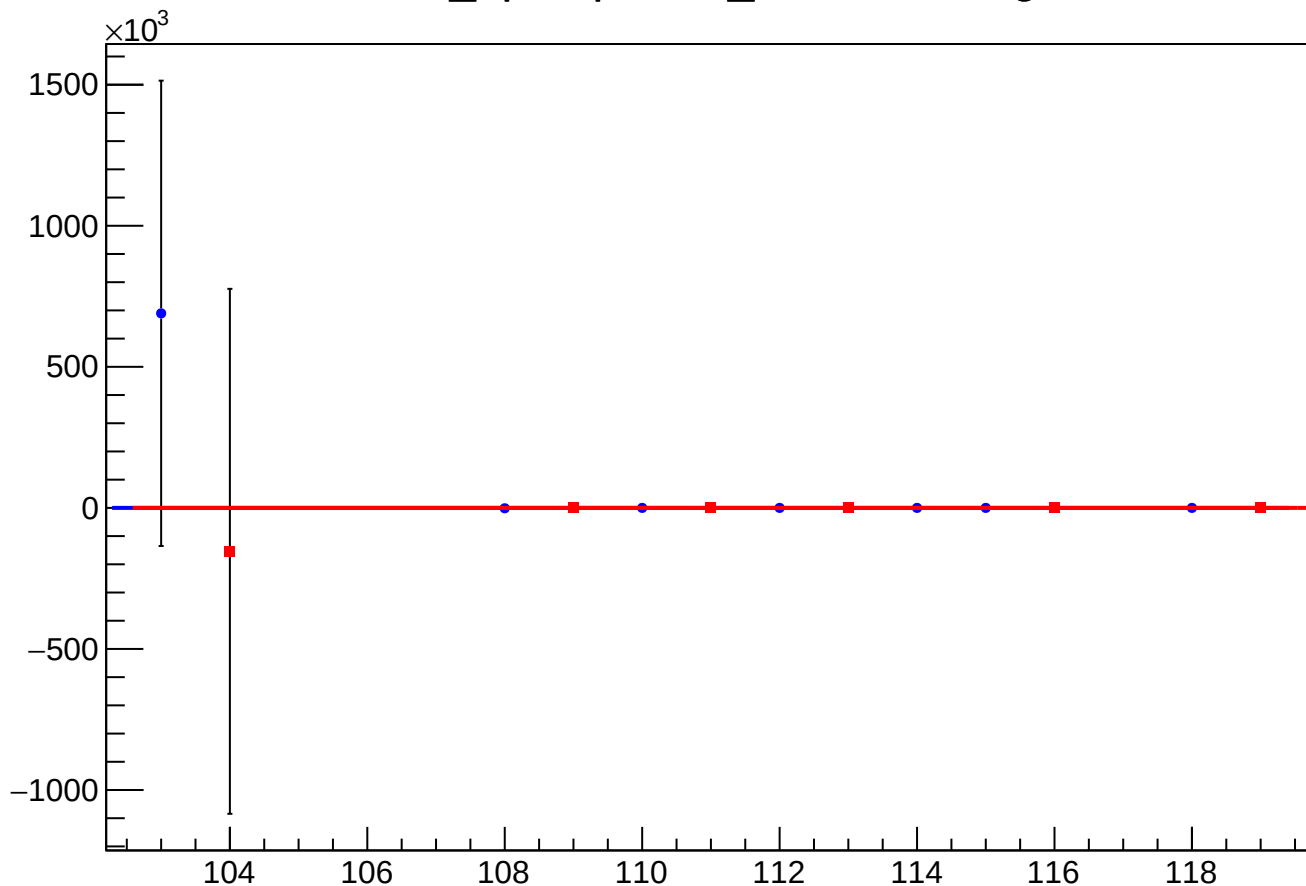
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $3070.507 \pm 1.343$   $\chi^2/\text{NDF}: 2608508.1/9$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# diff\_bpm1p03aY\_mean vs Slug



Right In: 0.212 $\pm$ 3.148  $\chi^2$ /NDF: 1.4/6

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.443 $\pm$ 1.932  $\chi^2$ /NDF: 1.8/5

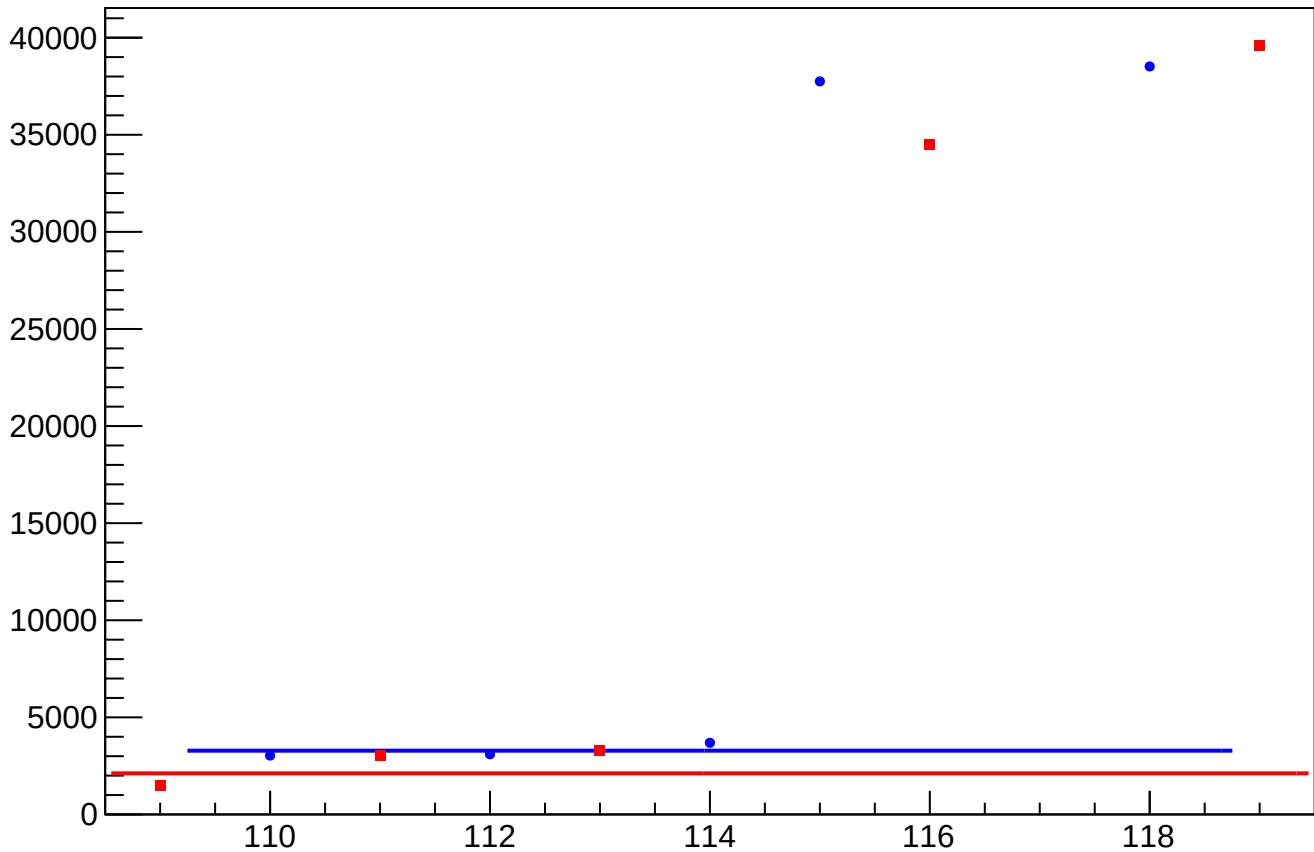
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.716 $\pm$ 1.647  $\chi^2$ /NDF: 3.7/12

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1p03aY\_rms vs Slug



Right In: 3283.536 $\pm$ 2.226  $\chi^2$ /NDF: 1149181.8/4

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

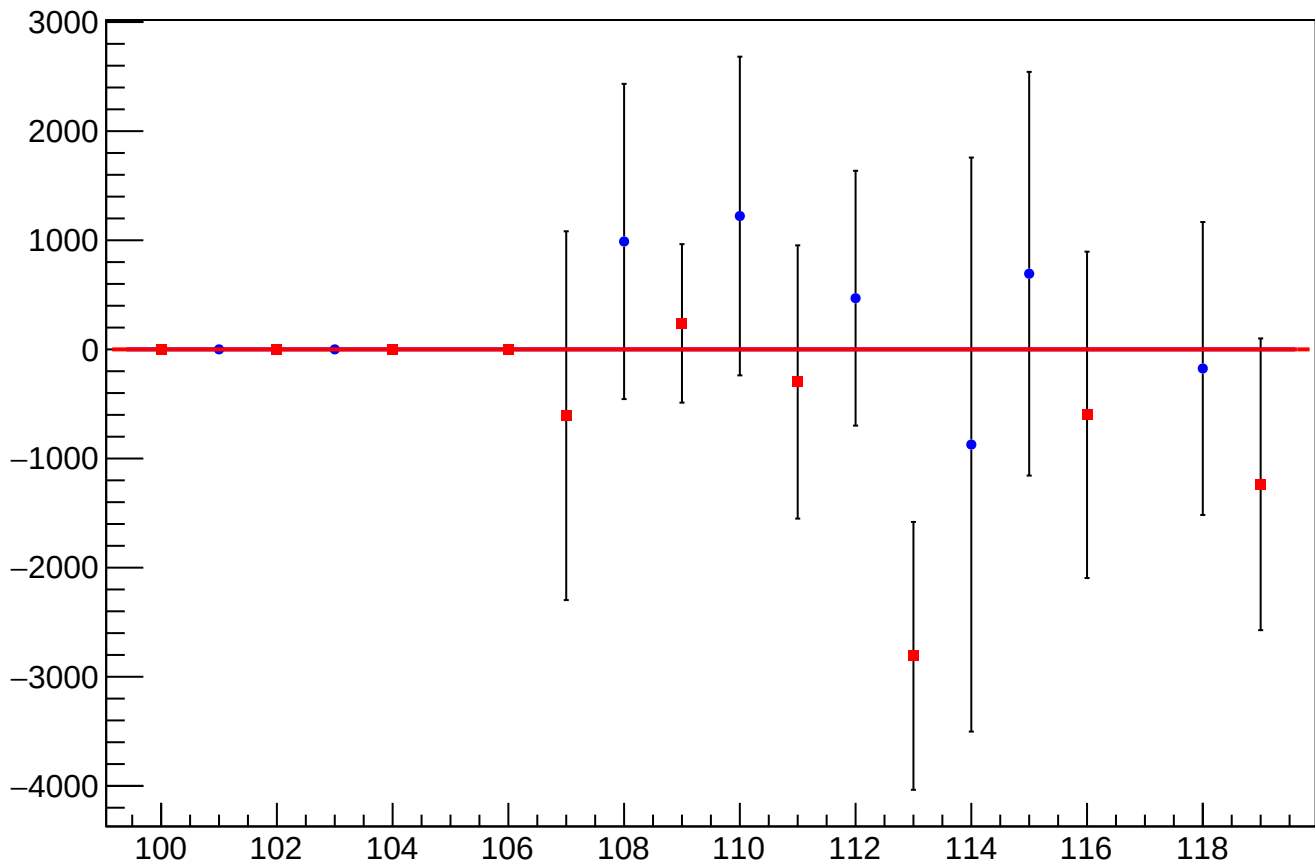
Right Out: 2116.755 $\pm$ 1.366  $\chi^2$ /NDF: 1872285.7/4

All: 2435.981 $\pm$ 1.164  $\chi^2$ /NDF: 3221021.9/9

- 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\_cav4bX\_mean vs Slug



Right In: 0.256+/-0.356     $\chi^2/\text{NDF}$ : 1.6/7

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.096+/-0.328     $\chi^2/\text{NDF}$ : 10.1/9

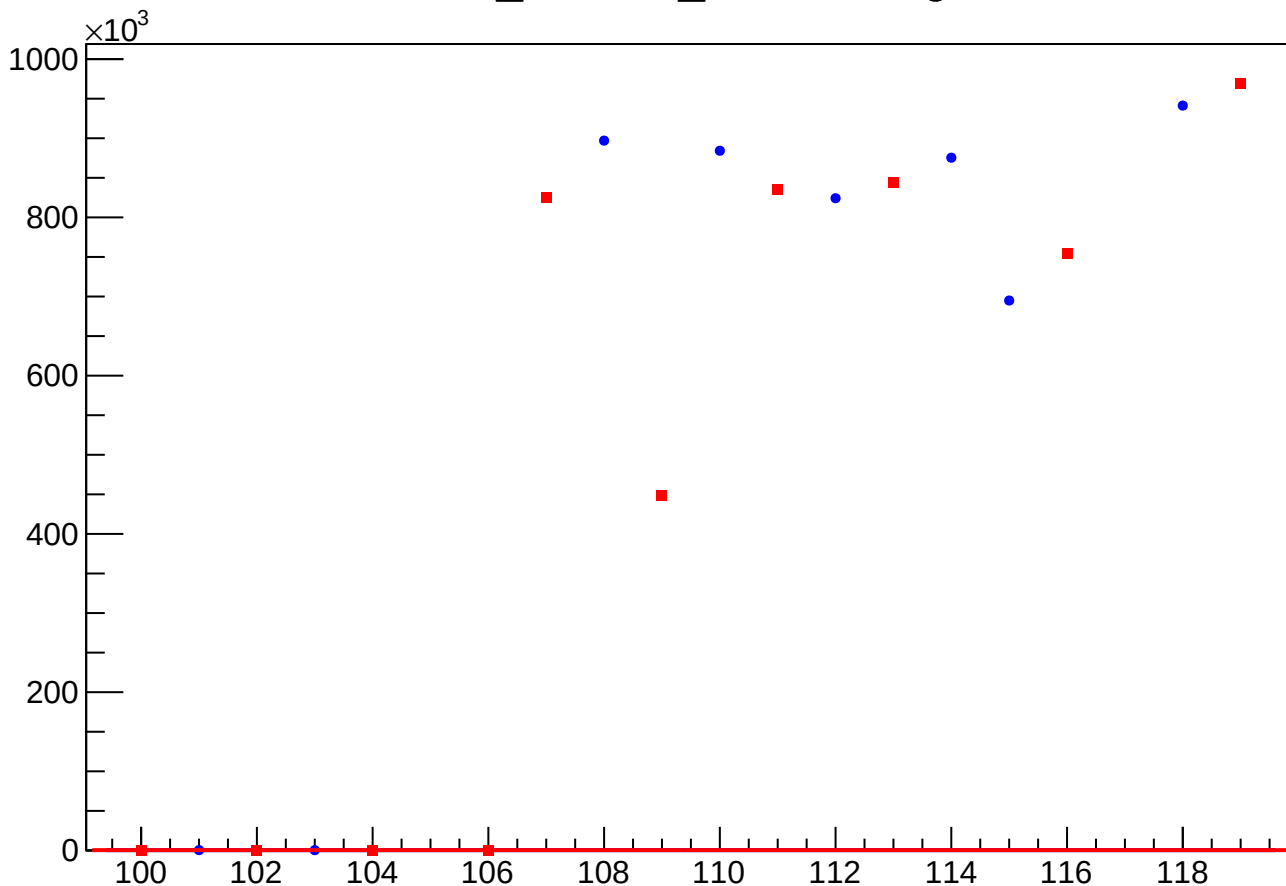
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.170+/-0.241     $\chi^2/\text{NDF}$ : 11.8/17

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4bX\_rms vs Slug



Right In: 398.435 $\pm$ 0.251  $\chi^2$ /NDF: 3519429.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 392.970 $\pm$ 0.232  $\chi^2$ /NDF: 3928466.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

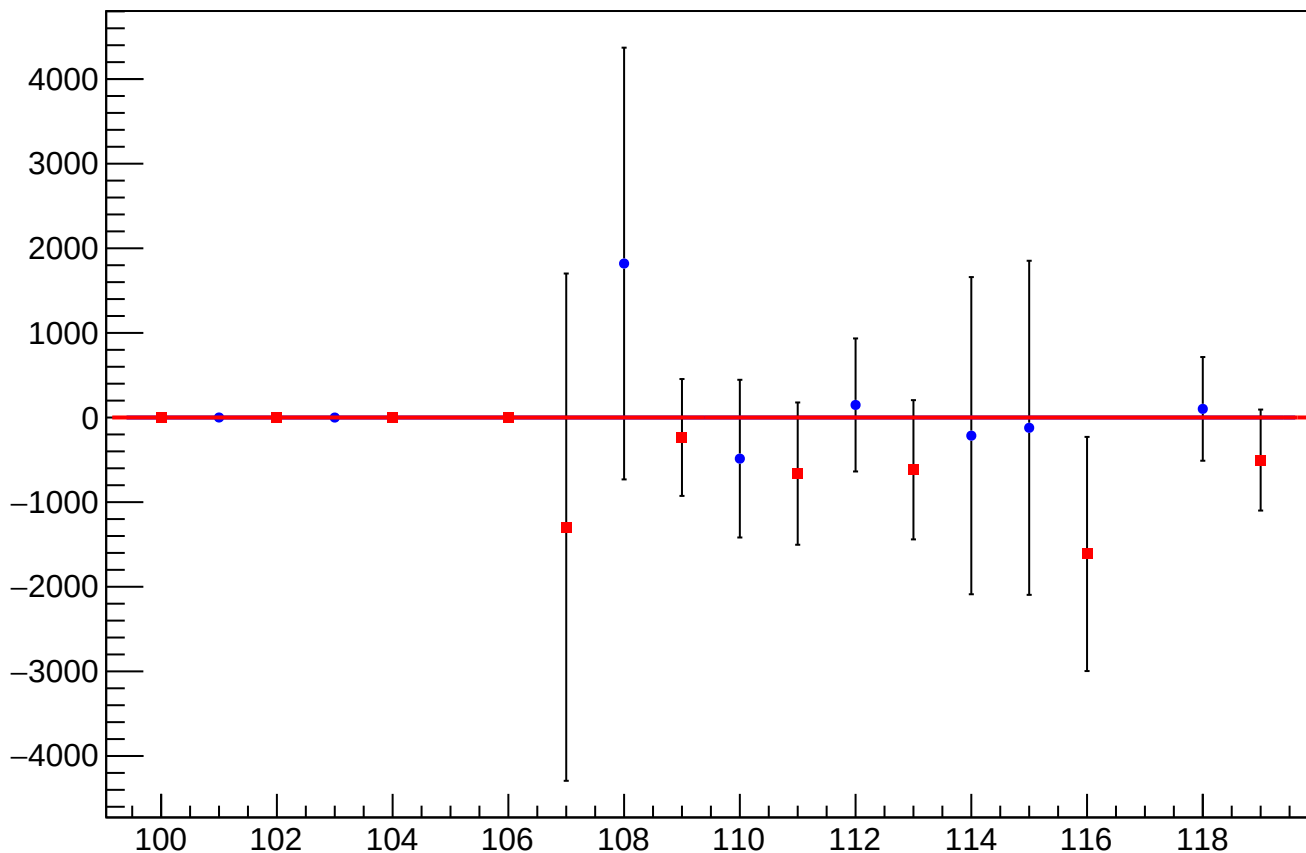
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 395.480 $\pm$ 0.170  $\chi^2$ /NDF: 7448151.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_cav4bY\_mean vs Slug



Right In: -0.020 $\pm$ 0.347  $\chi^2$ /NDF: 1.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.598 $\pm$ 0.324  $\chi^2$ /NDF: 3.7/9

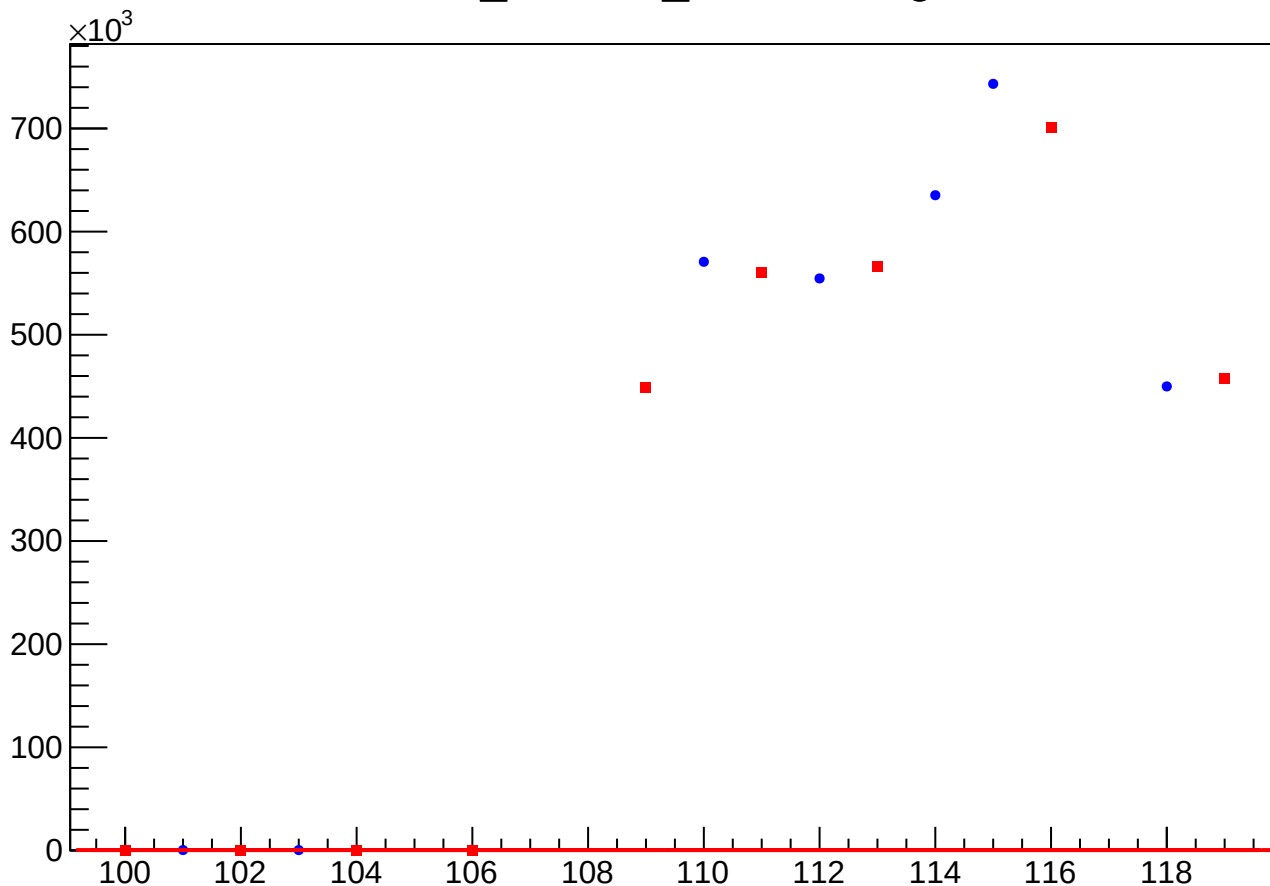
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.310 $\pm$ 0.237  $\chi^2$ /NDF: 6.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_cav4bY\_rms vs Slug



Right In: 389.042 $\pm$ 0.245  $\chi^2/\text{NDF}$ : 3345120.5/6

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 387.017 $\pm$ 0.229  $\chi^2/\text{NDF}$ : 4359293.9/8

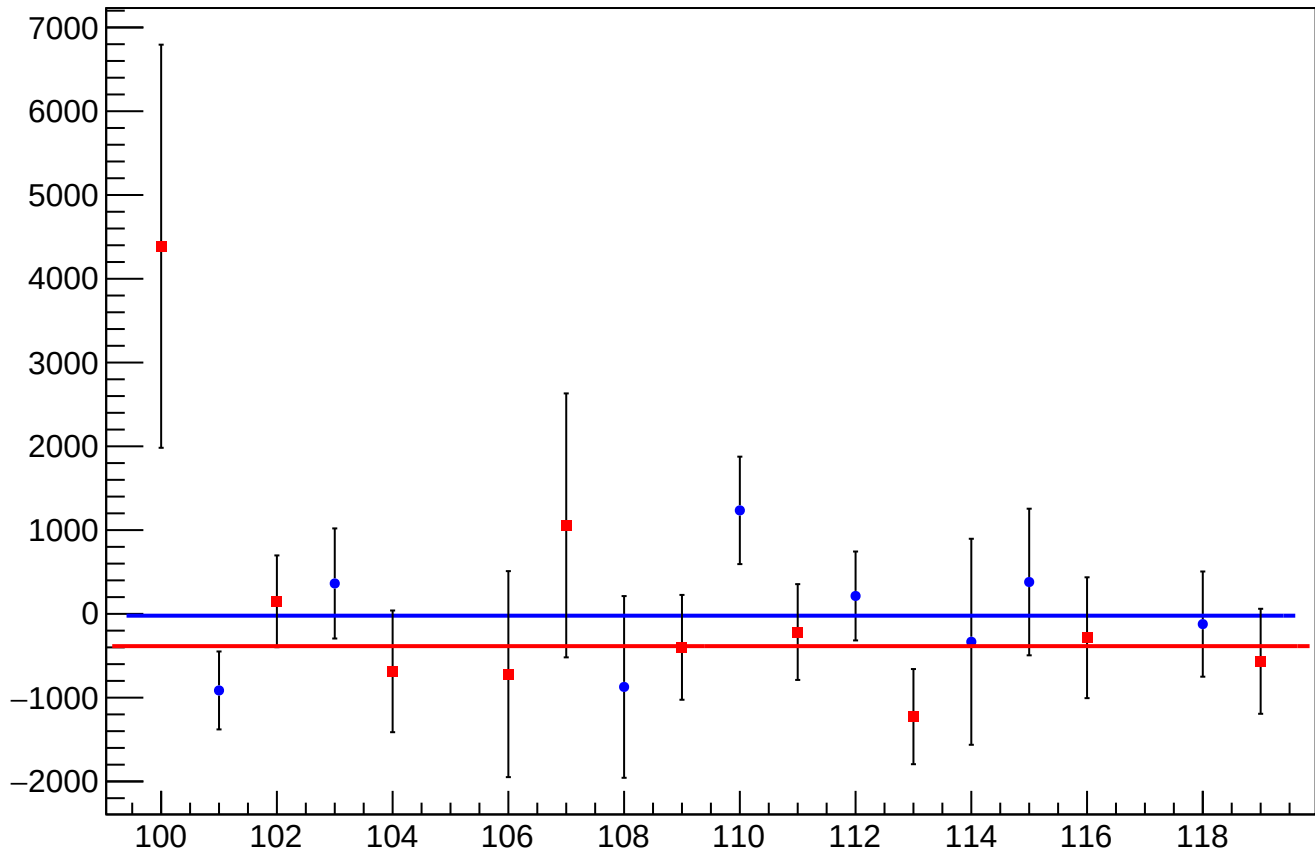
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 387.959 $\pm$ 0.167  $\chi^2/\text{NDF}$ : 7704450.9/15

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4cX\_mean vs Slug



Right In: -21.599 $\pm$ 233.919  $\chi^2$ /NDF: 9.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -385.085 $\pm$ 225.600  $\chi^2$ /NDF: 8.4/9

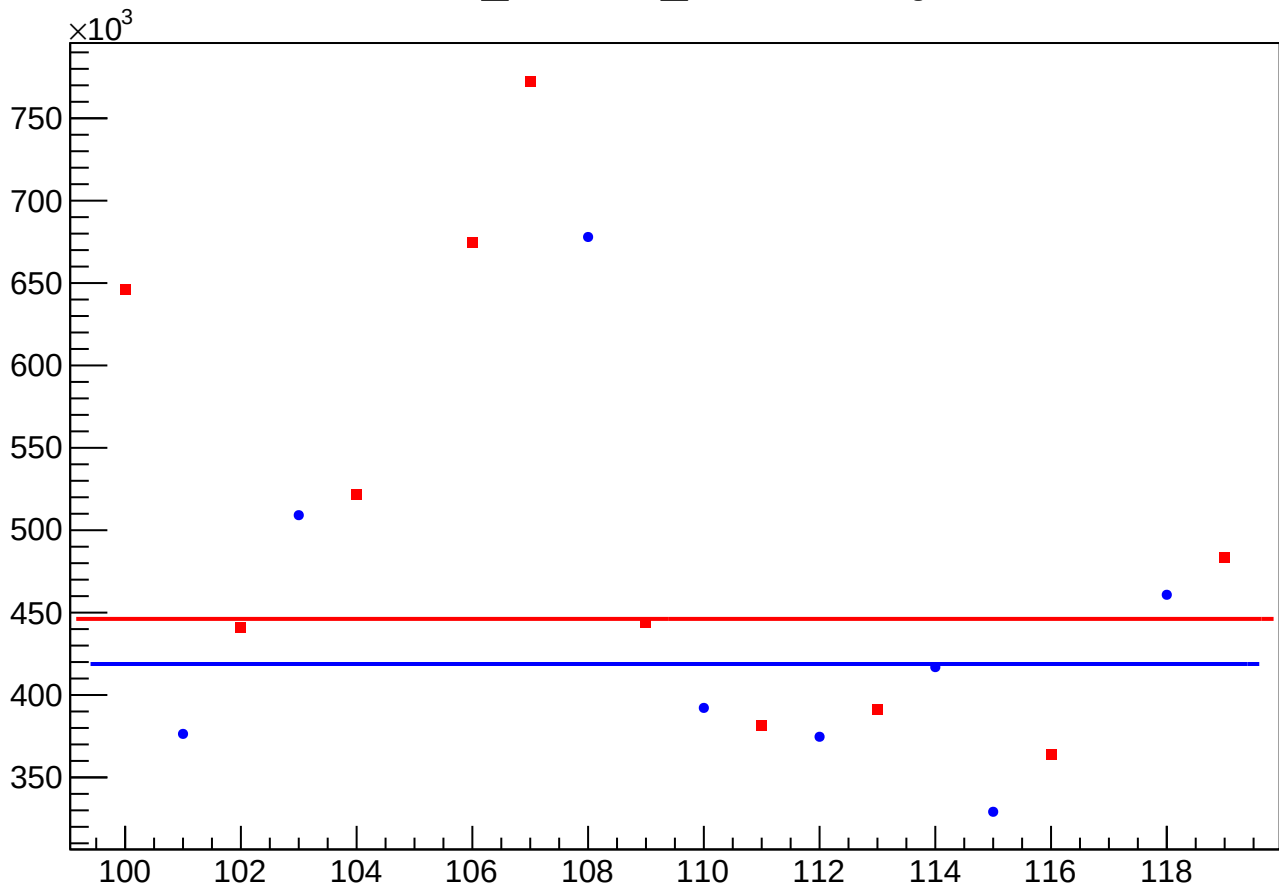
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -209.920 $\pm$ 162.385  $\chi^2$ /NDF: 18.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_cav4cX\_rms vs Slug



Right In: 418817.950+/-165.405  $\chi^2/\text{NDF}$ : 215864.1/7

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

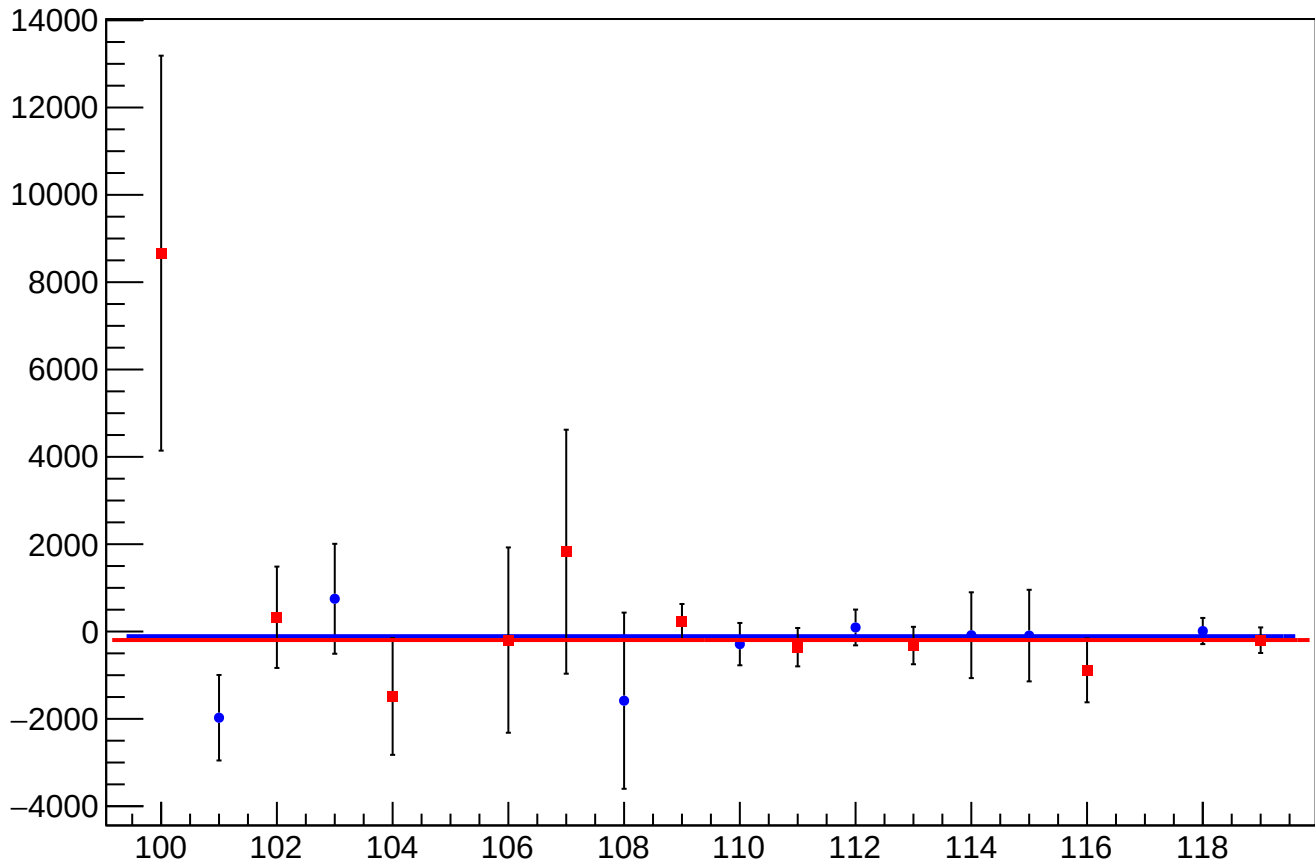
Right Out: 446187.413+/-159.607  $\chi^2/\text{NDF}$ : 265706.5/9

All: 432990.795+/-114.855  $\chi^2/\text{NDF}$ : 495748.

- 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\_cav4cY\_mean vs Slug



Right In: -106.695+/-199.129  $\chi^2/\text{NDF}$ : 5.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -195.190+/-177.156  $\chi^2/\text{NDF}$ : 7.7/9

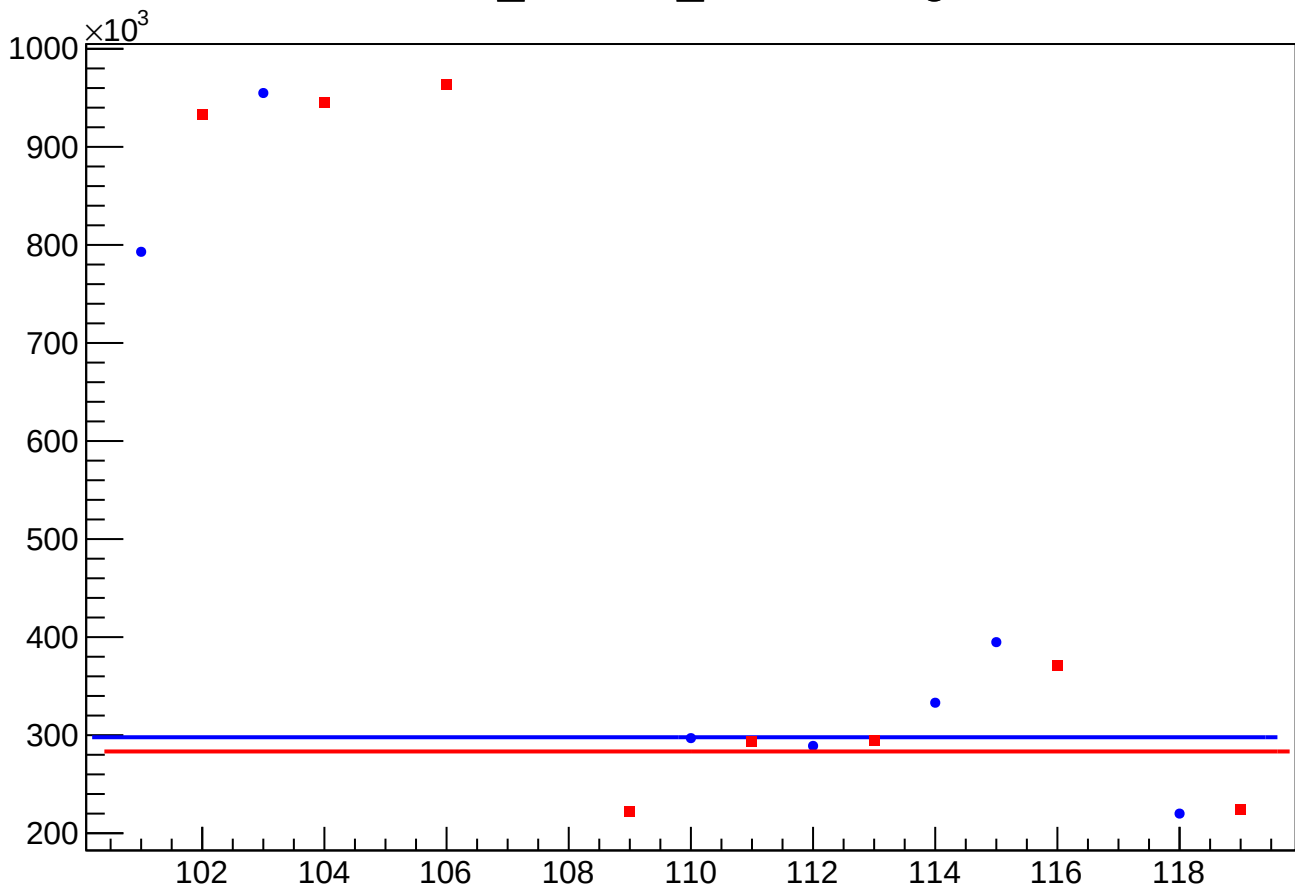
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -156.093+/-132.358  $\chi^2/\text{NDF}$ : 12.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4cY\_rms vs Slug



Right In: 297893.596 $\pm$ 142.069  $\chi^2/\text{NDF}$ : 1038697.2/6

+ 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

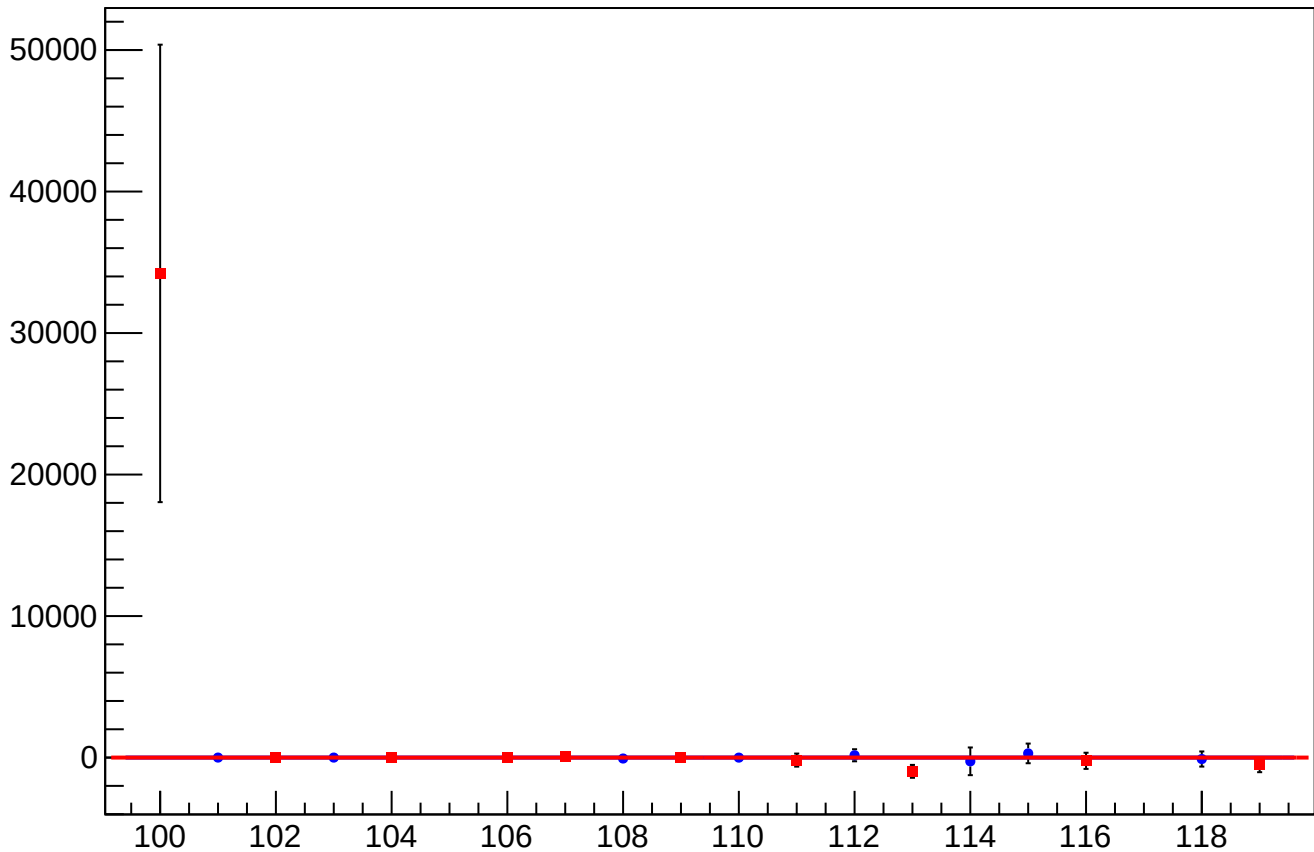
Right Out: 283380.839 $\pm$ 126.561  $\chi^2/\text{NDF}$ : 1172749.1/7

All: 289802.205 $\pm$ 94.501  $\chi^2/\text{NDF}$ : 2217264.4/13

- 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\_cav4dX\_mean vs Slug



Right In:  $-0.035 \pm 0.172$   $\chi^2/\text{NDF}$ : 1.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.355 \pm 0.160$   $\chi^2/\text{NDF}$ : 11.0/9

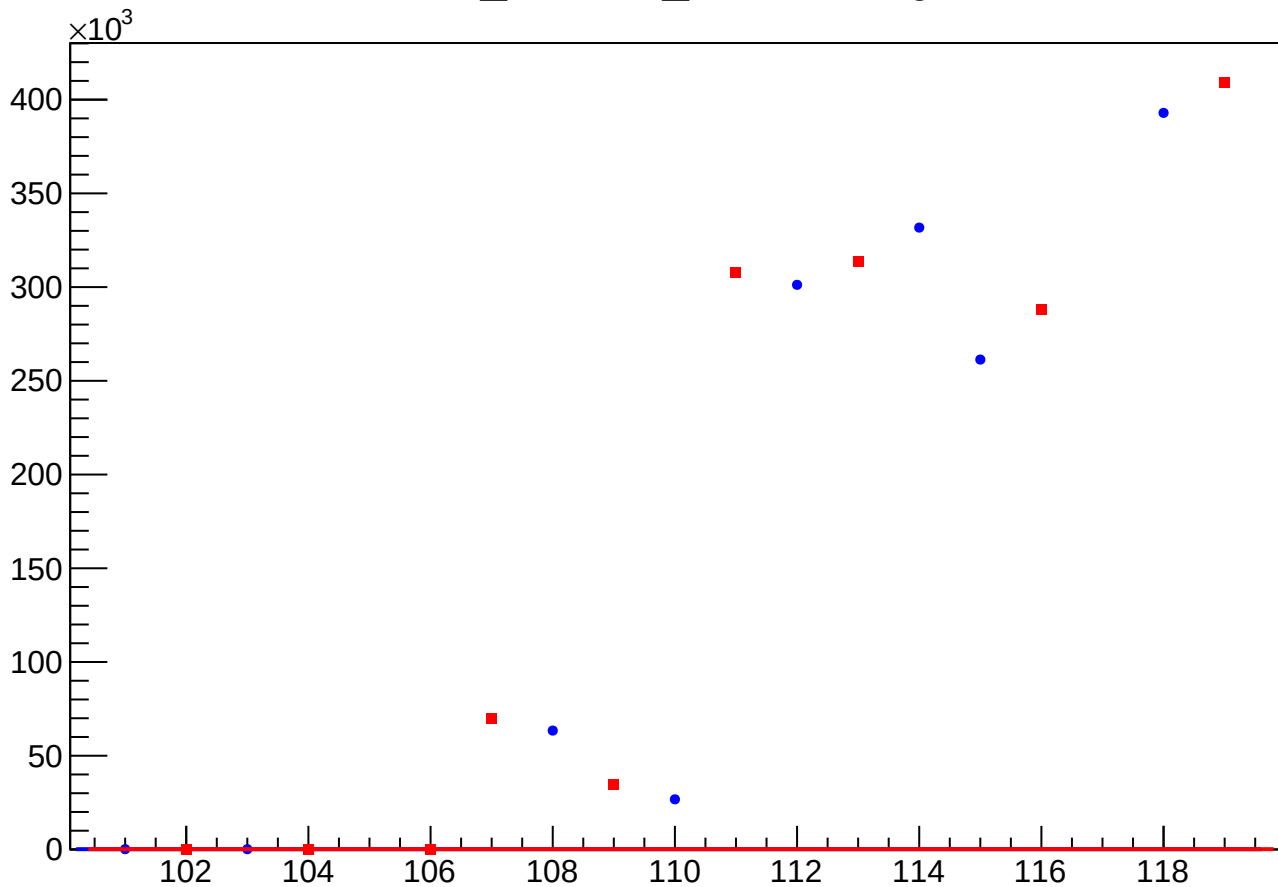
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.206 \pm 0.117$   $\chi^2/\text{NDF}$ : 14.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4dX\_rms vs Slug



Right In: 148.736 $\pm$ 0.122  $\chi^2$ /NDF: 3639355.3/7

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: 149.127 $\pm$ 0.113  $\chi^2$ /NDF: 4616680.8/8

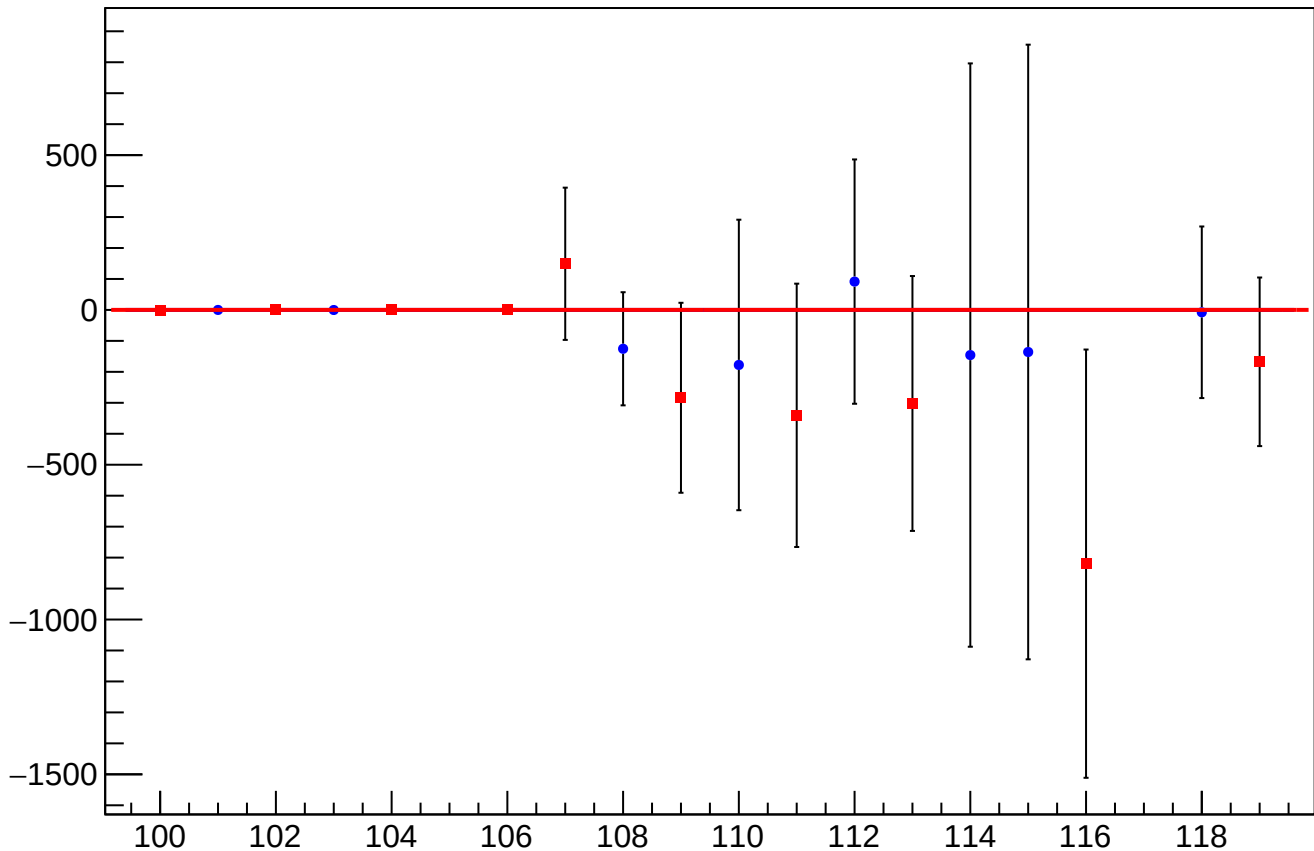
All: 148.946 $\pm$ 0.083  $\chi^2$ /NDF: 8256041.7/16

- 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\_cav4dY\_mean vs Slug



Right In: -0.068+/-0.177  $\chi^2$ /NDF: 0.8/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.125+/-0.166  $\chi^2$ /NDF: 4.4/9

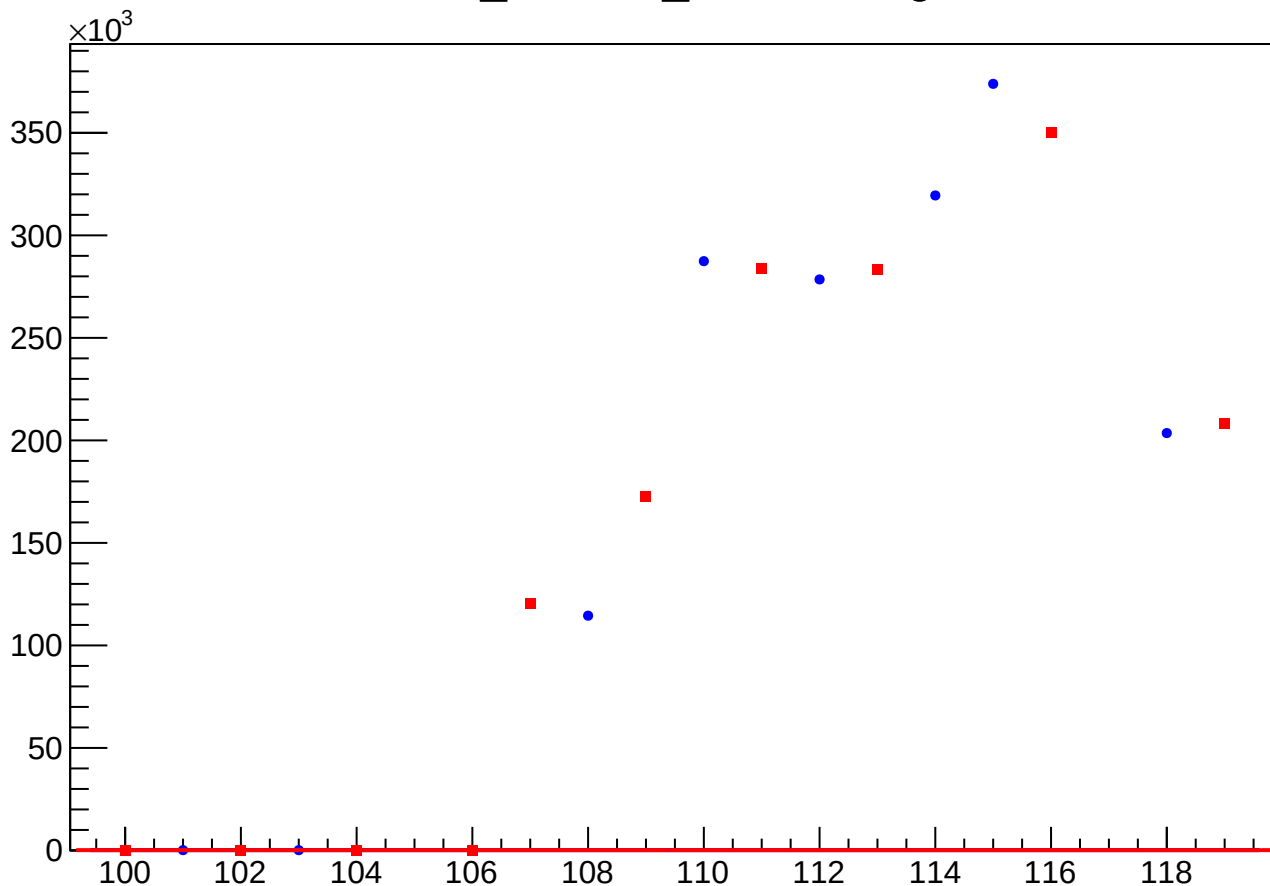
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.035+/-0.121  $\chi^2$ /NDF: 5.9/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# diff\_cav4dY\_rms vs Slug



Right In: 152.825 $\pm$ 0.125  $\chi^2/\text{NDF}$ : 4120248.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 155.647 $\pm$ 0.118  $\chi^2/\text{NDF}$ : 4619666.5/9

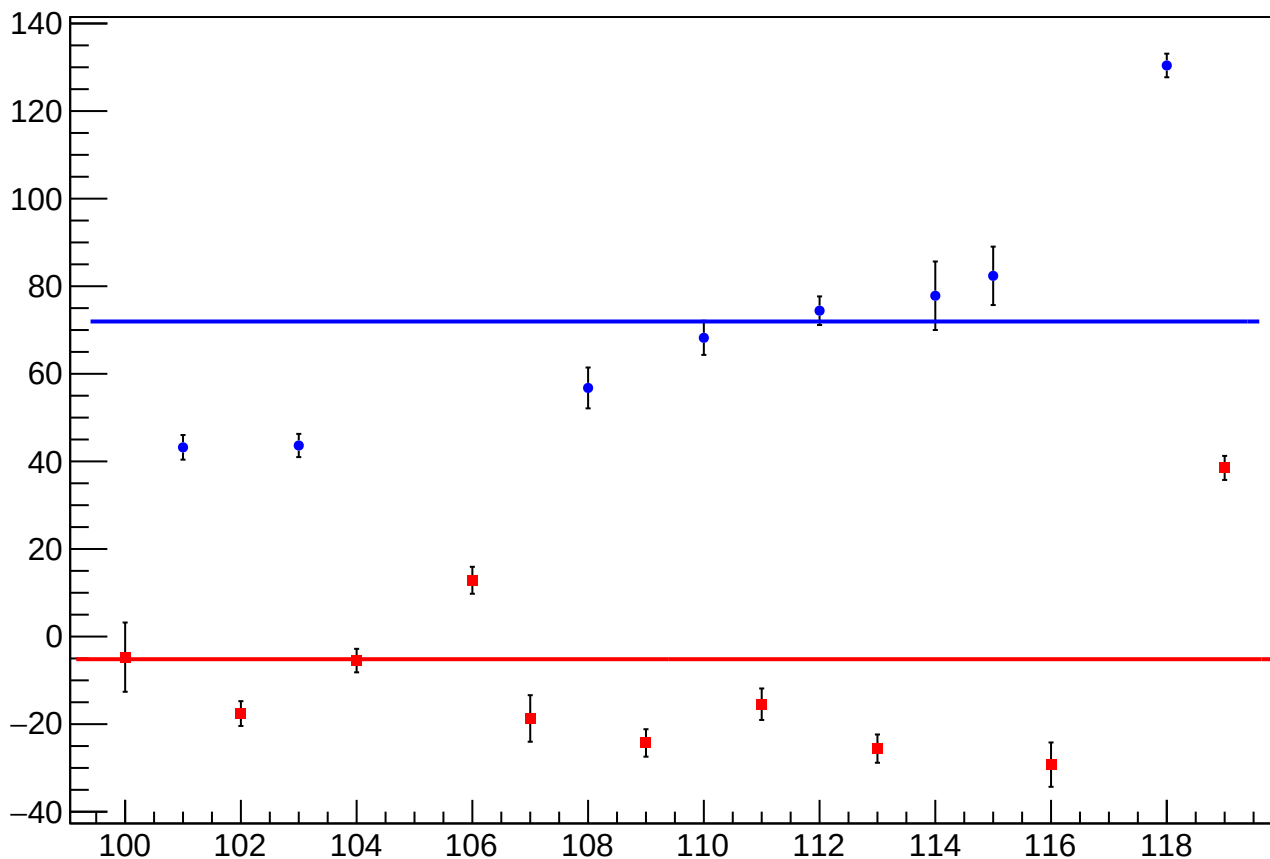
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 154.324 $\pm$ 0.086  $\chi^2/\text{NDF}$ : 8740183.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i01X\_mean vs Slug



Right In: 71.948 $\pm$ 1.240  $\chi^2$ /NDF: 704.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -5.170 $\pm$ 1.074  $\chi^2$ /NDF: 421.0/9

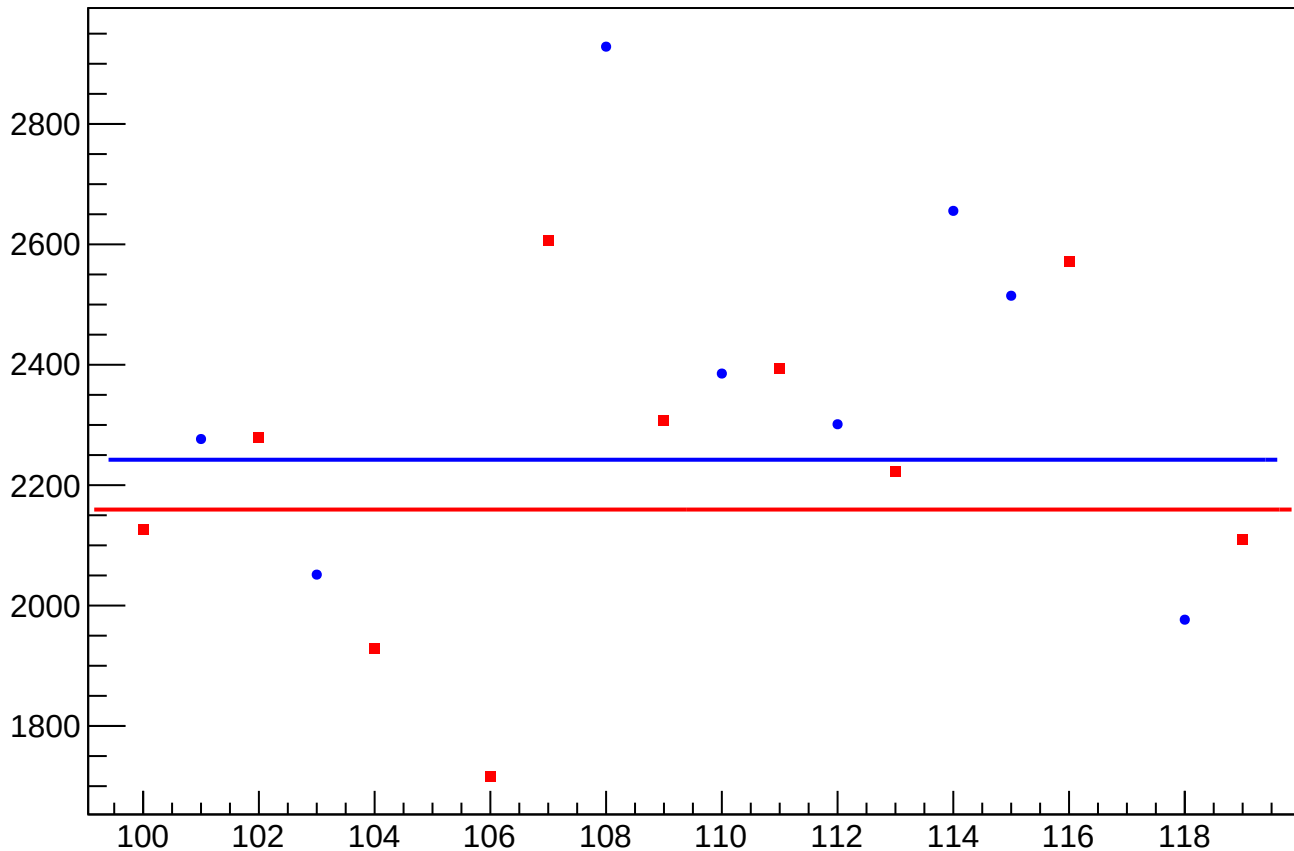
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.900 $\pm$ 0.812  $\chi^2$ /NDF: 3335.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i01X\_rms vs Slug



Right In: 2242.236 $\pm$ 0.877  $\chi^2$ /NDF: 85670.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2159.483 $\pm$ 0.759  $\chi^2$ /NDF: 101746.5/9

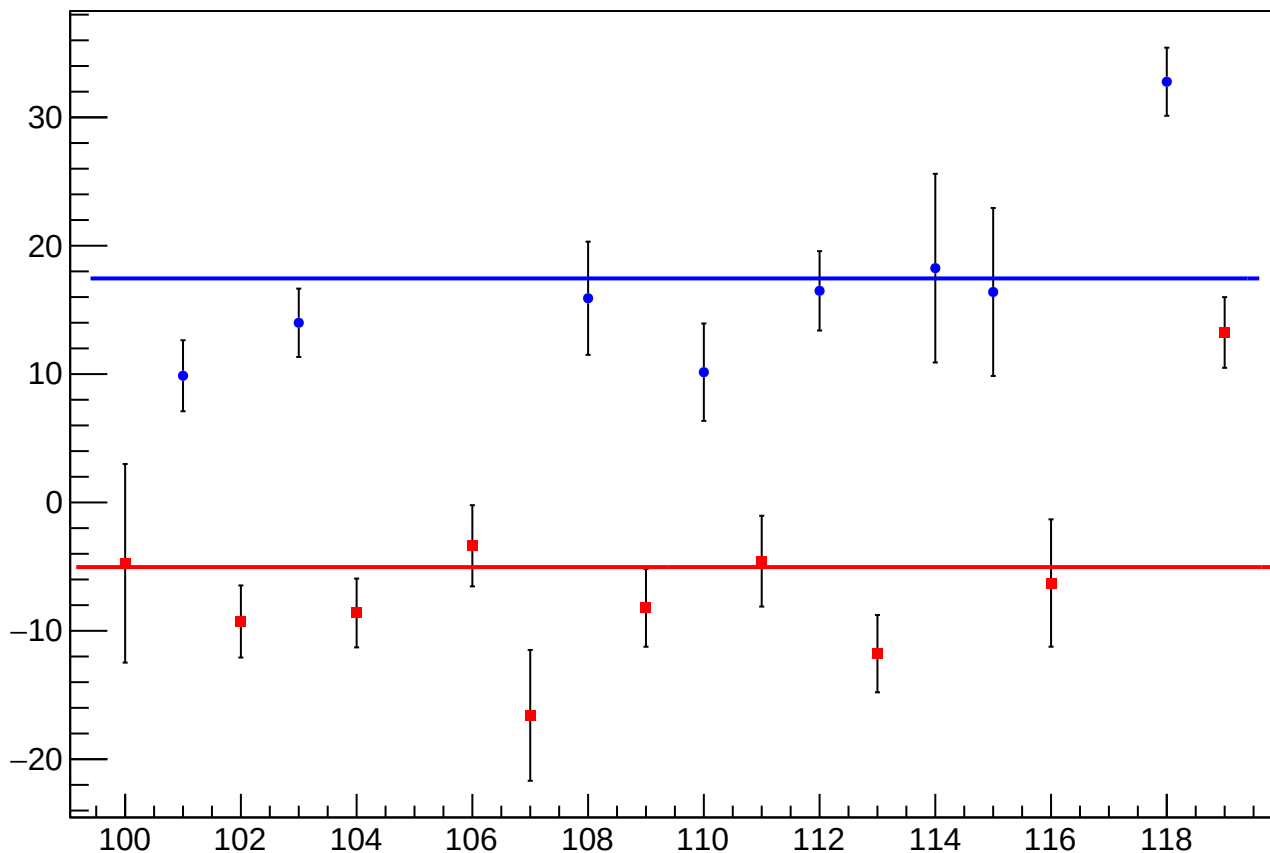
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2194.969 $\pm$ 0.574  $\chi^2$ /NDF: 192508.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i01Y\_mean vs Slug



Right In: 17.452+/-1.211  $\chi^2/\text{NDF}$ : 46.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.035+/-1.058  $\chi^2/\text{NDF}$ : 59.7/9

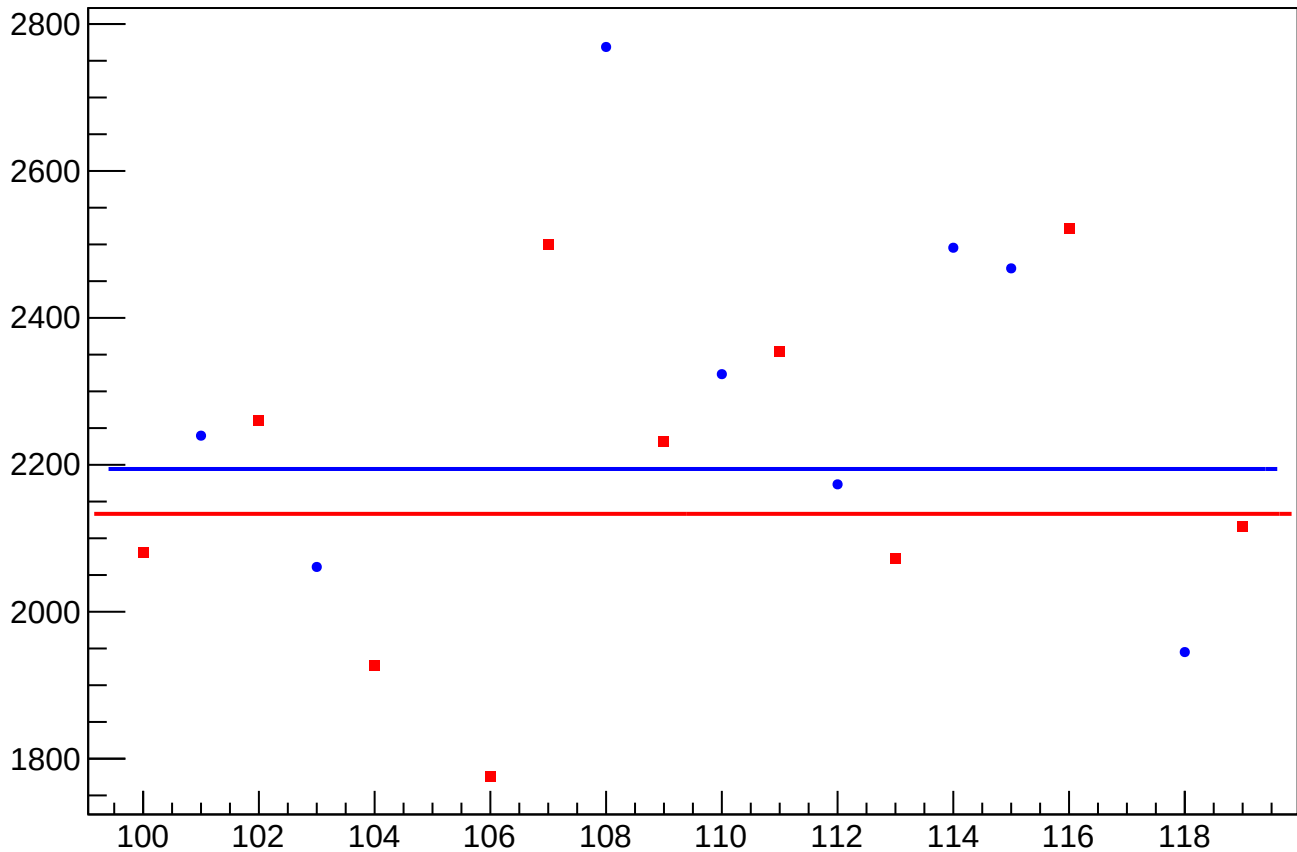
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.698+/-0.797  $\chi^2/\text{NDF}$ : 301.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i01Y\_rms vs Slug



Right In: 2194.336 $\pm$ 0.857  $\chi^2$ /NDF: 66398.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2133.262 $\pm$ 0.748  $\chi^2$ /NDF: 75072.1/9

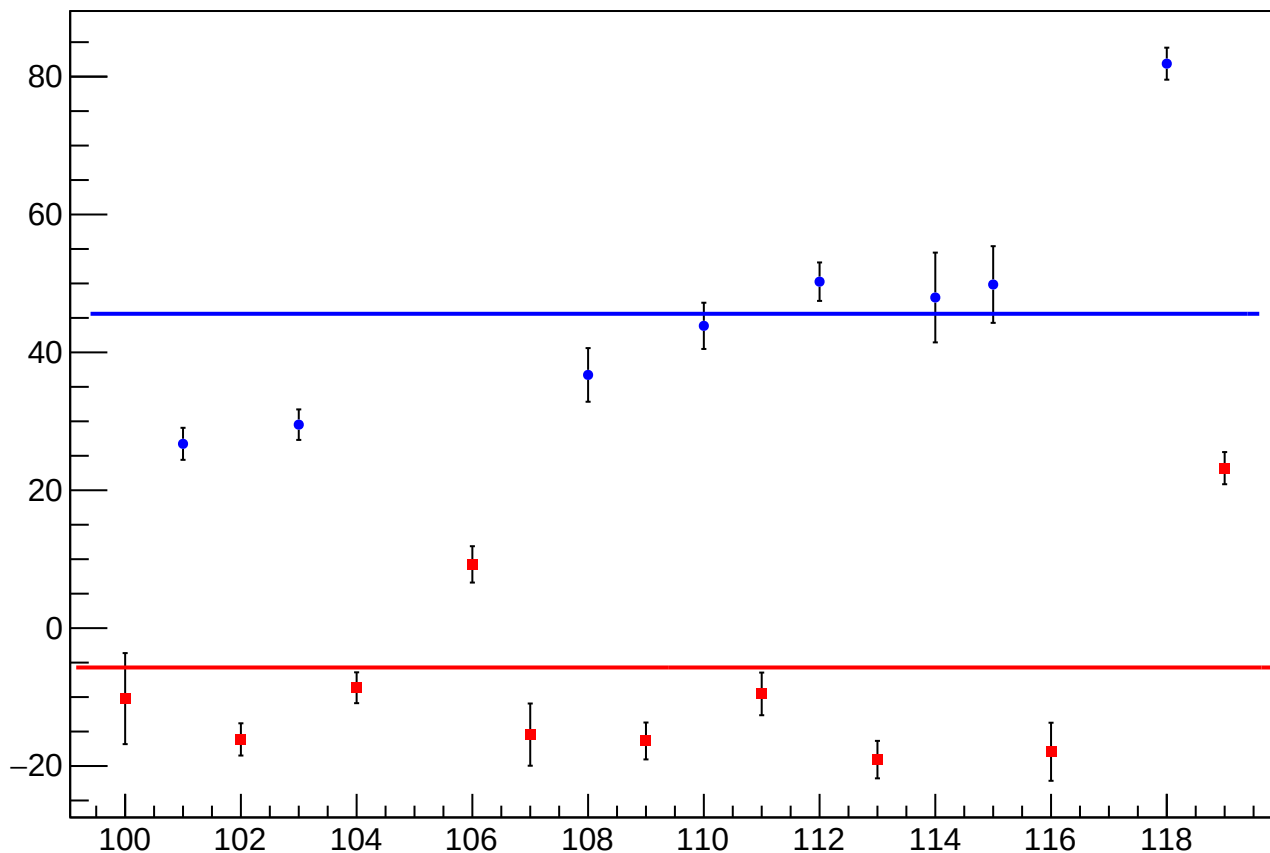
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2159.698 $\pm$ 0.564  $\chi^2$ /NDF: 144353.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i01aX\_mean vs Slug



Right In: 45.599 $\pm$ 1.046  $\chi^2$ /NDF: 371.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -5.708 $\pm$ 0.906  $\chi^2$ /NDF: 262.6/9

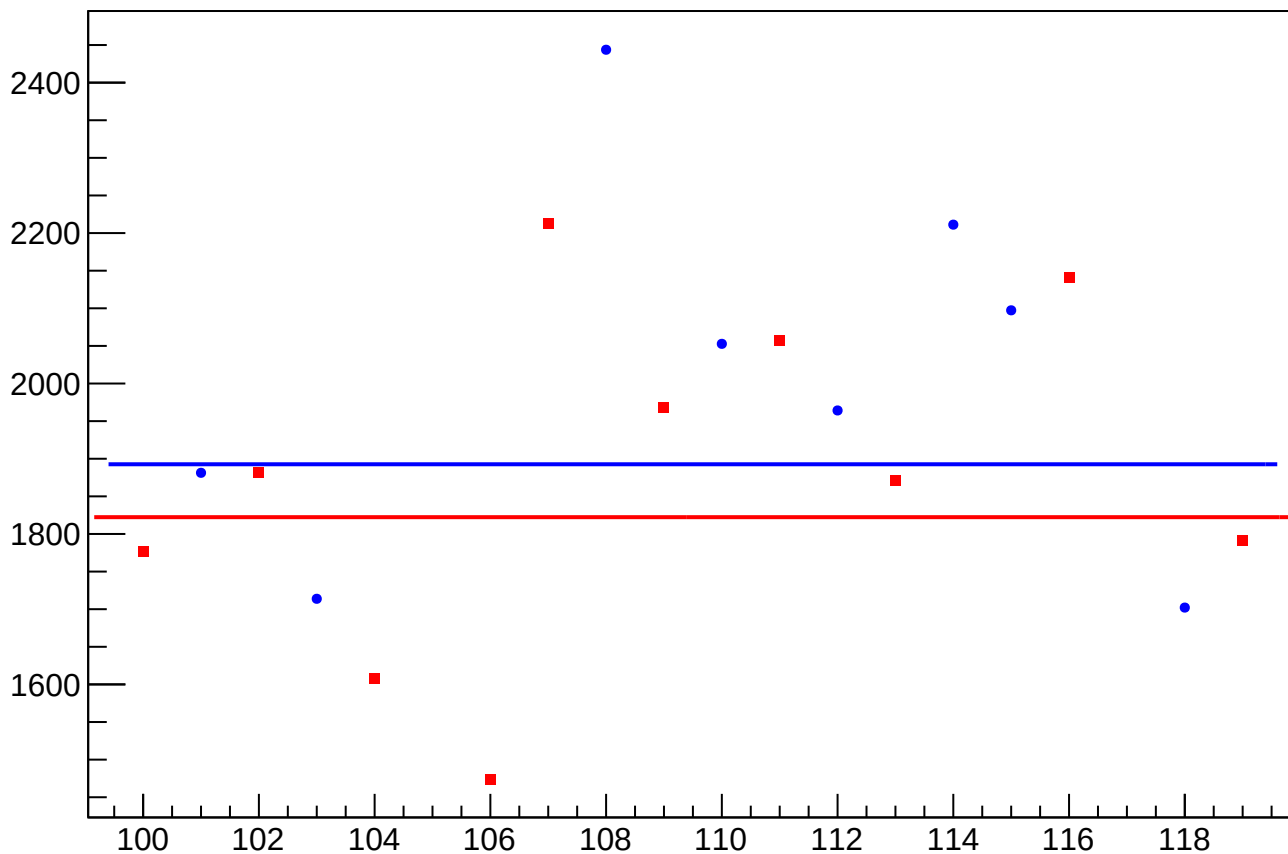
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.293 $\pm$ 0.685  $\chi^2$ /NDF: 2009.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i01aX\_rms vs Slug



Right In: 1892.660 $\pm$ 0.739  $\chi^2$ /NDF: 80047.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1822.324 $\pm$ 0.641  $\chi^2$ /NDF: 99639.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

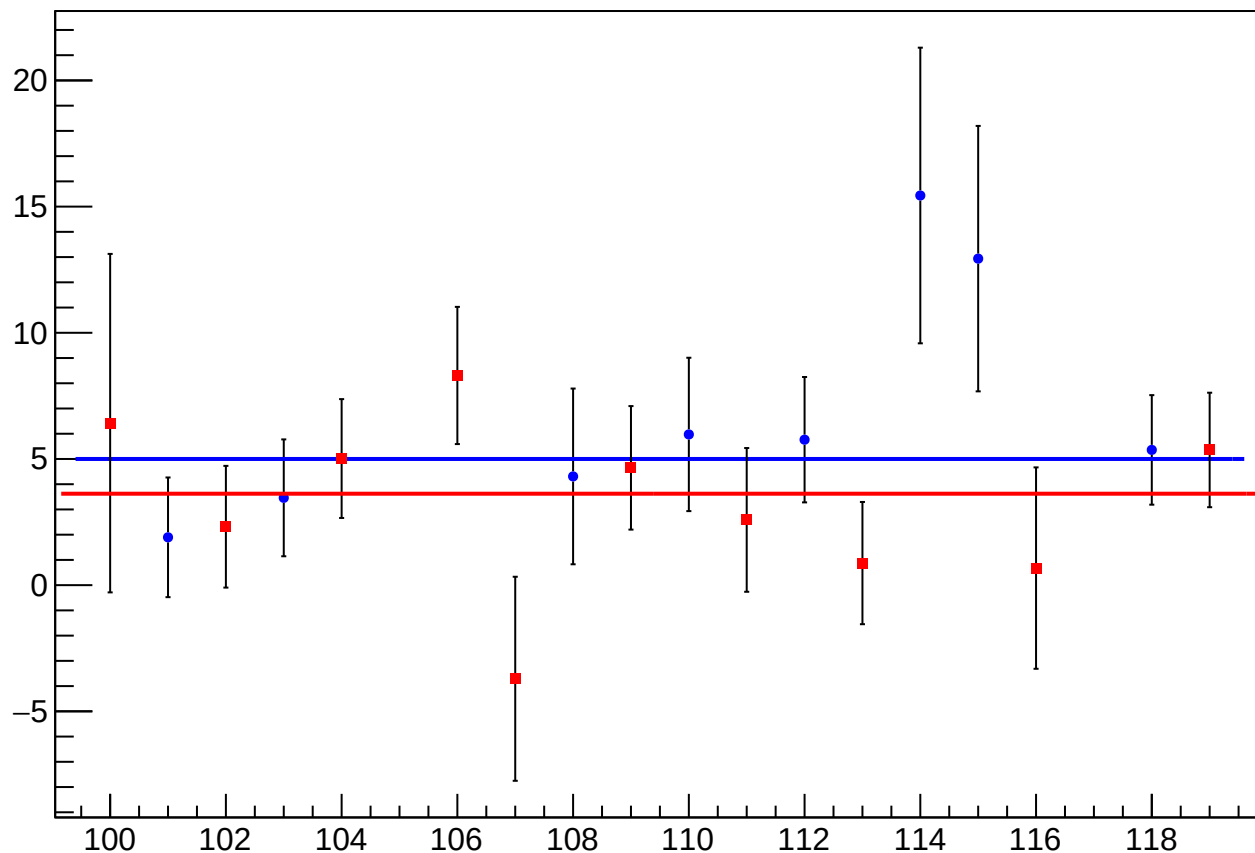
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1852.485 $\pm$ 0.484  $\chi^2$ /NDF: 184854.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm0i01aY\_mean vs Slug



Right In: 5.000 $\pm$ 1.003  $\chi^2$ /NDF: 7.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.624 $\pm$ 0.881  $\chi^2$ /NDF: 9.8/9

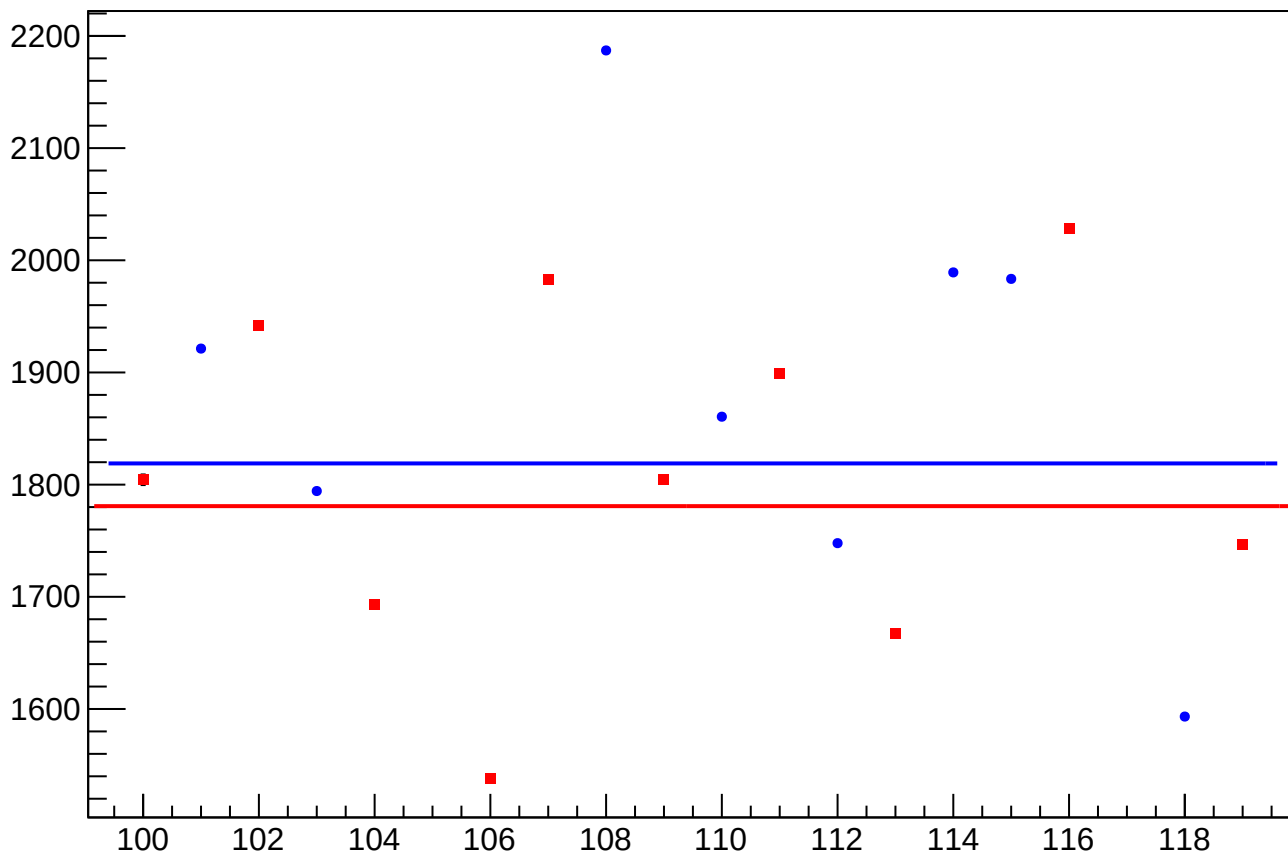
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.223 $\pm$ 0.662  $\chi^2$ /NDF: 18.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i01aY\_rms vs Slug



Right In: 1818.909 $\pm$ 0.709  $\chi^2$ /NDF: 53590.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1780.832 $\pm$ 0.623  $\chi^2$ /NDF: 48789.3/9

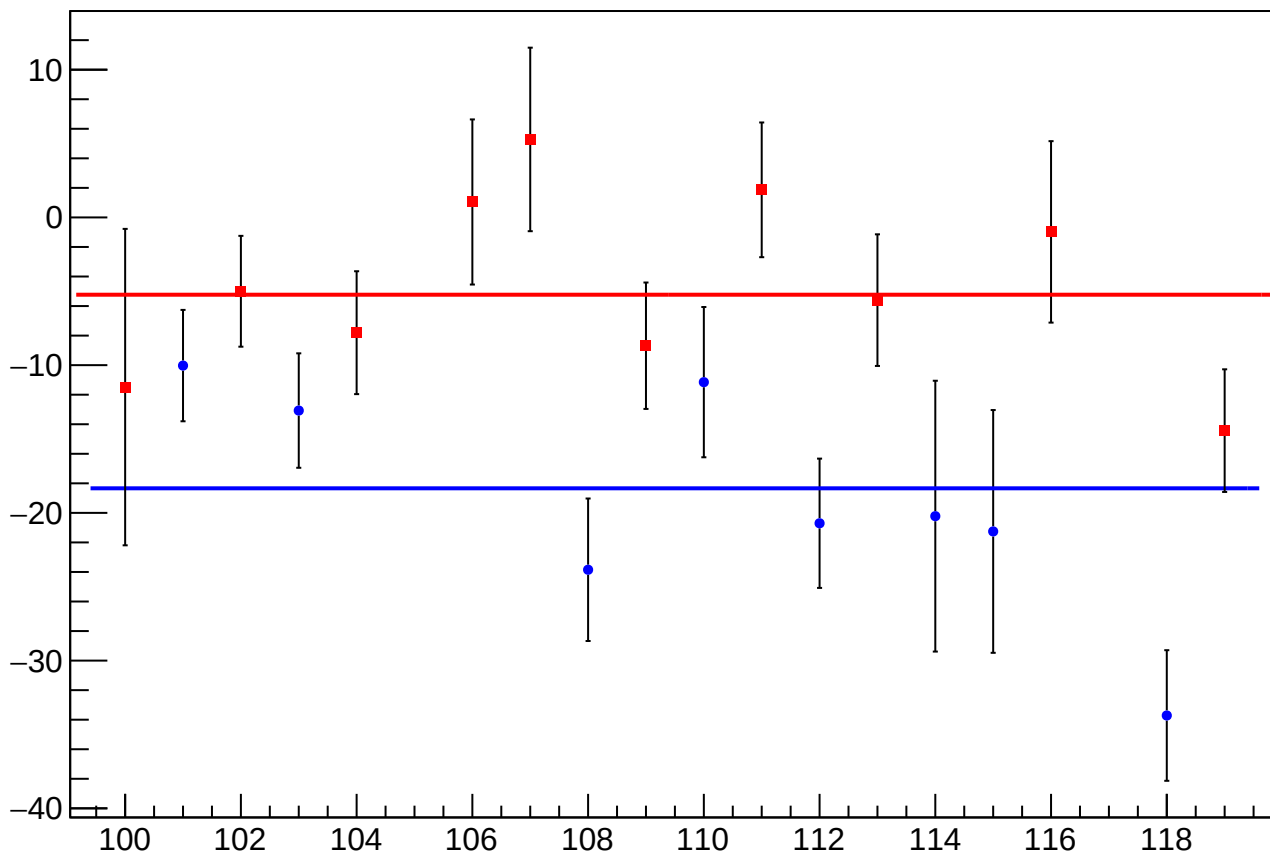
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1797.418 $\pm$ 0.468  $\chi^2$ /NDF: 104008.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l01X\_mean vs Slug



Right In:  $-18.337 \pm 1.693$   $\chi^2/\text{NDF}: 22.6/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-5.232 \pm 1.519$   $\chi^2/\text{NDF}: 13.3/9$

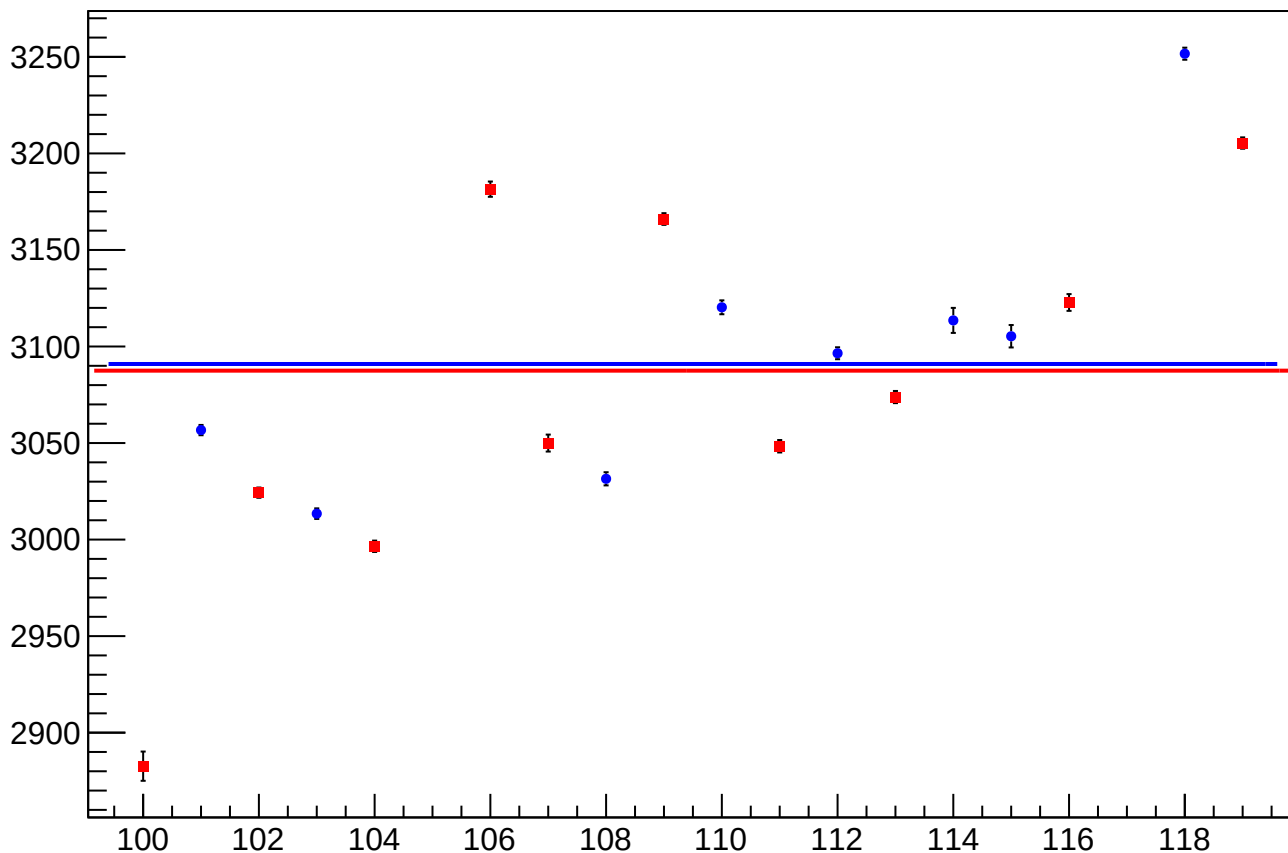
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-11.077 \pm 1.131$   $\chi^2/\text{NDF}: 69.1/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# diff\_bpm0l01X\_rms vs Slug



Right In: 3090.939+/-1.197  $\chi^2/\text{NDF}$ : 4001.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3087.491+/-1.074  $\chi^2/\text{NDF}$ : 5413.8/9

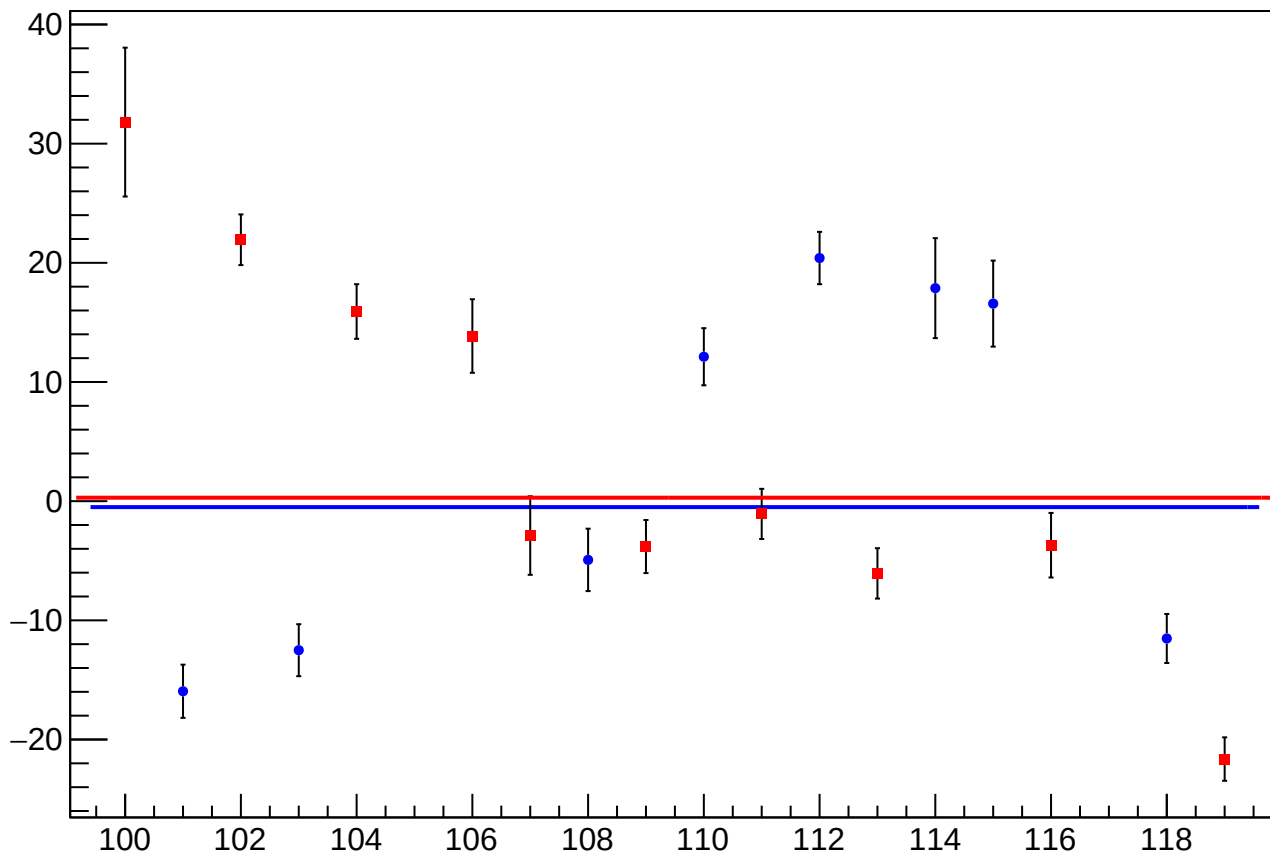
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3089.029+/-0.800  $\chi^2/\text{NDF}$ : 9419.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l01Y\_mean vs Slug



Right In:  $-0.499 \pm 0.874$   $\chi^2/\text{NDF}$ : 269.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.291 \pm 0.762$   $\chi^2/\text{NDF}$ : 355.5/9

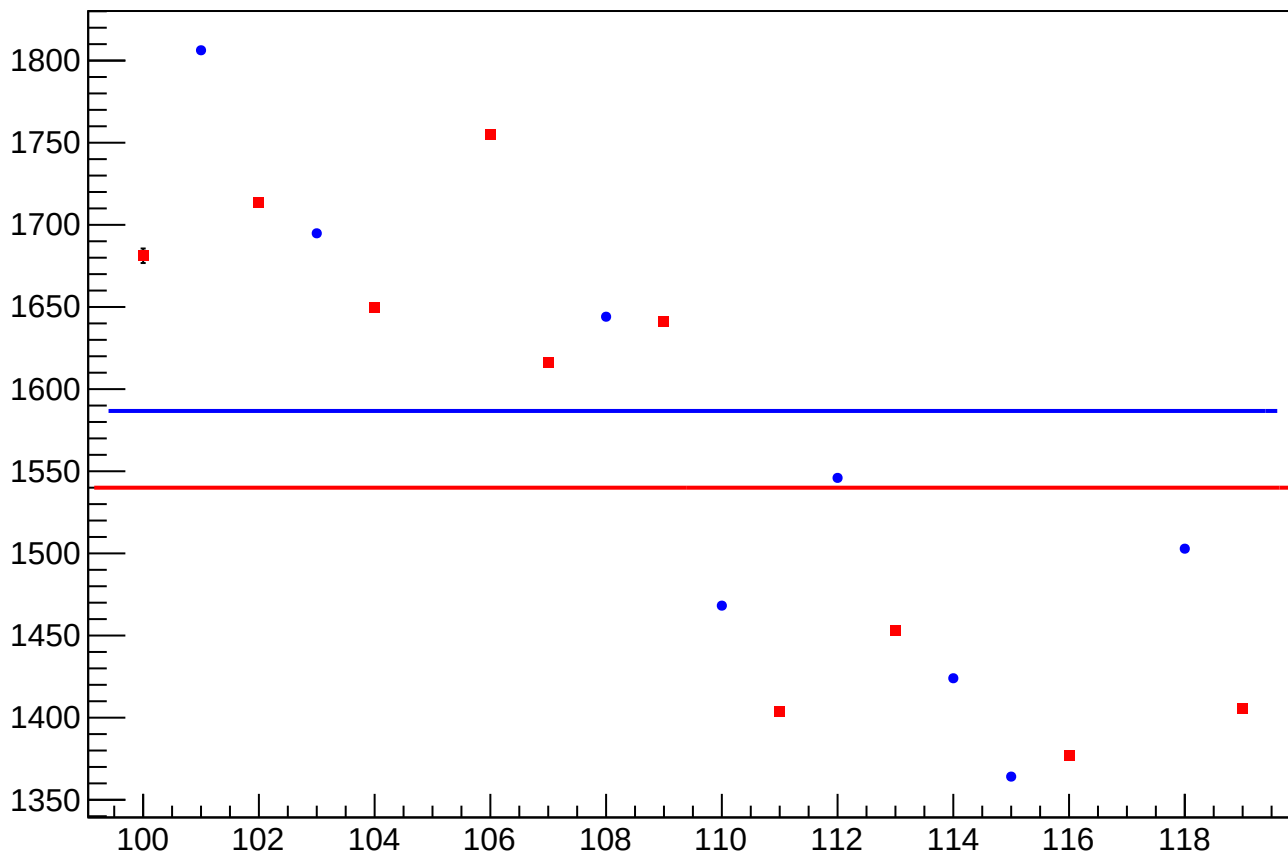
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.050 \pm 0.574$   $\chi^2/\text{NDF}$ : 625.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l01Y\_rms vs Slug



Right In: 1586.711 $\pm$ 0.618  $\chi^2$ /NDF: 44753.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1539.999 $\pm$ 0.539  $\chi^2$ /NDF: 63788.6/9

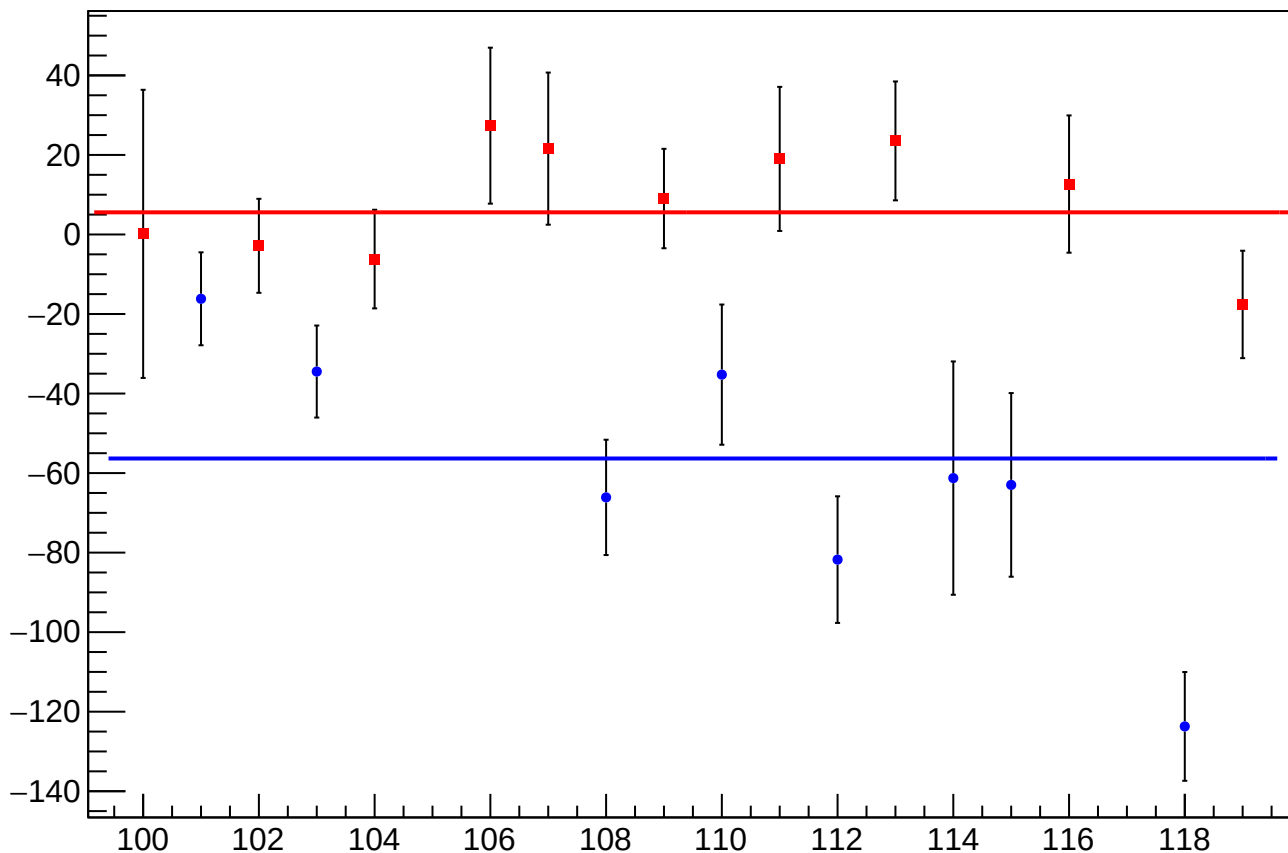
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1560.161 $\pm$ 0.406  $\chi^2$ /NDF: 111786.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l02X\_mean vs Slug



Right In:  $-56.333 \pm 5.338$   $\chi^2/\text{NDF}: 44.2/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $5.568 \pm 4.850$   $\chi^2/\text{NDF}: 8.5/9$

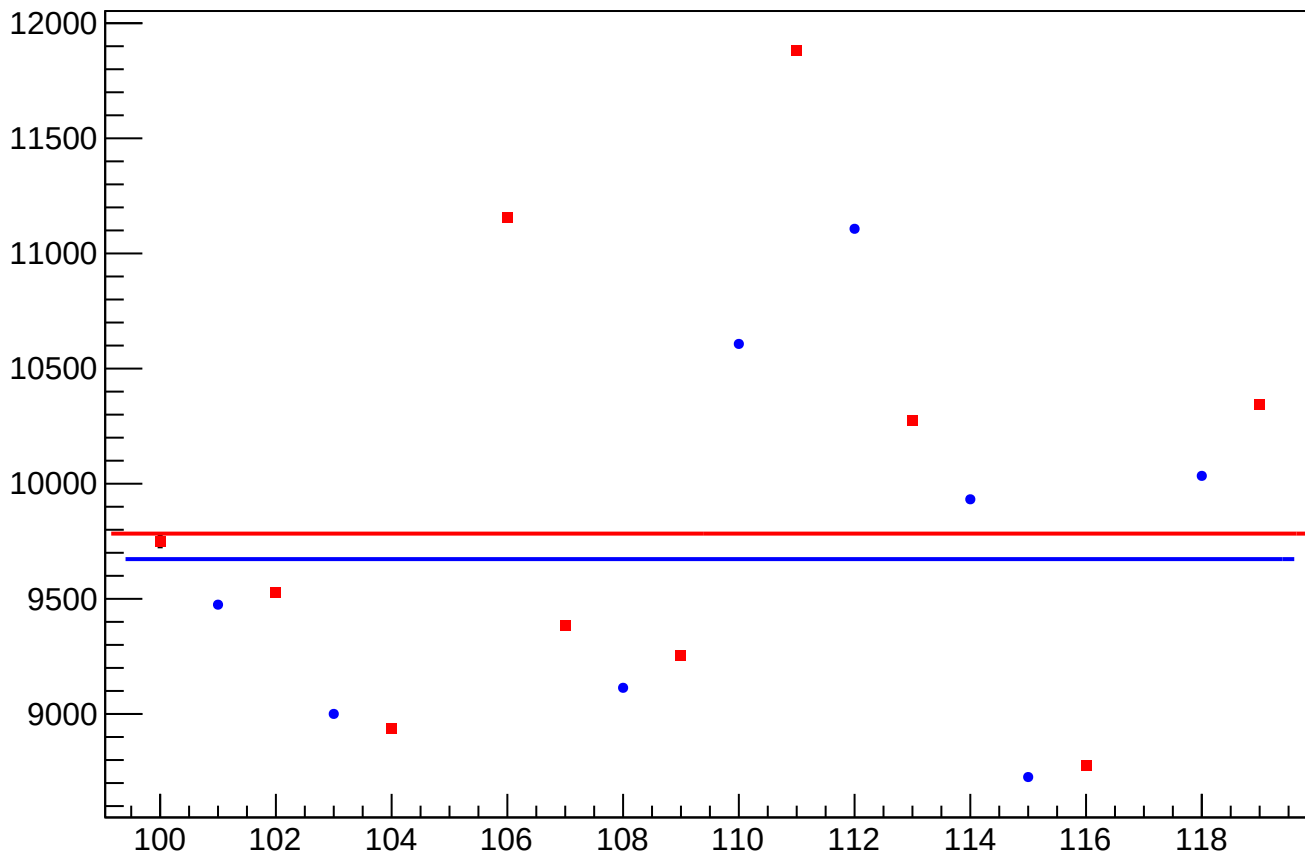
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-22.424 \pm 3.589$   $\chi^2/\text{NDF}: 126.4/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# diff\_bpm0l02X\_rms vs Slug



Right In: 9672.565+/-3.774  $\chi^2/\text{NDF}$ : 37074.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9783.318+/-3.429  $\chi^2/\text{NDF}$ : 63835.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

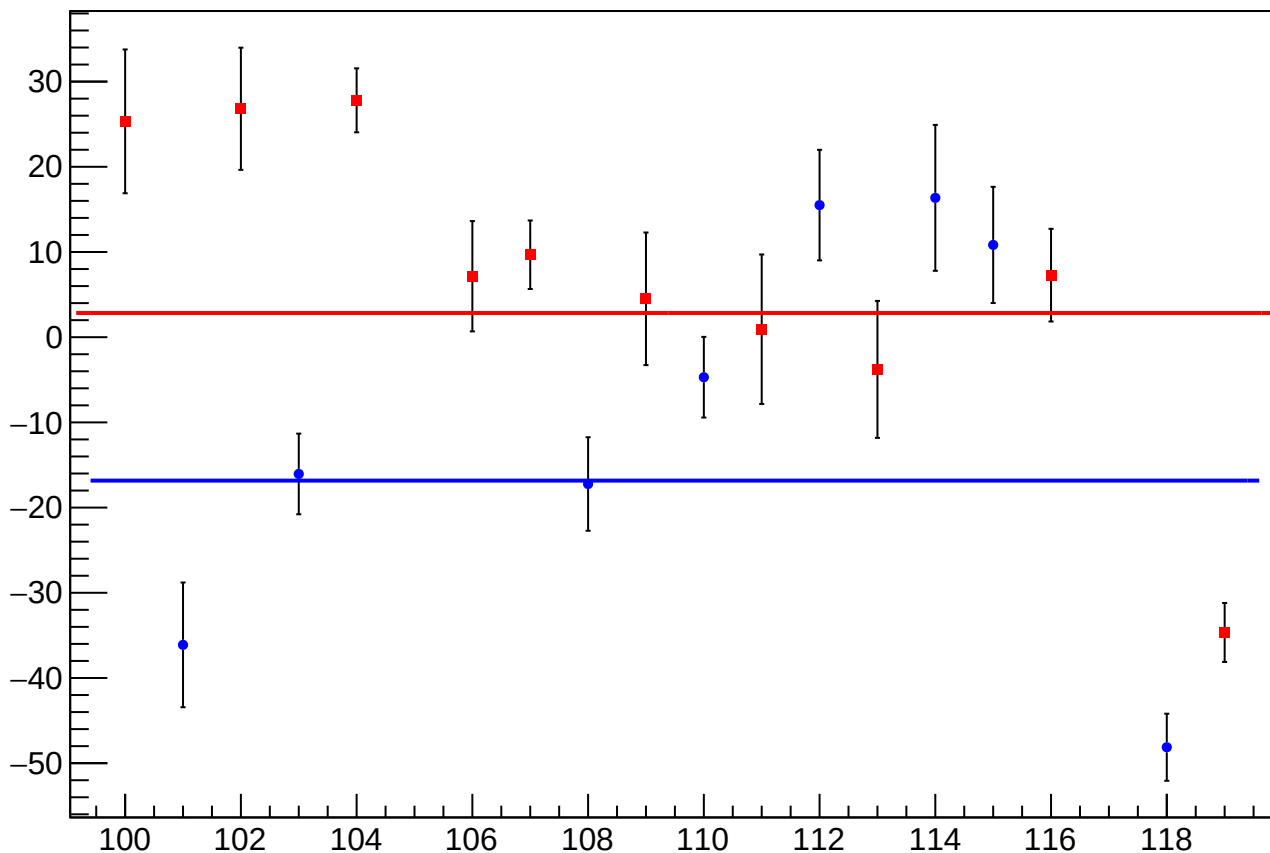
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9733.235+/-2.538  $\chi^2/\text{NDF}$ : 101382.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm0l02Y\_mean vs Slug



Right In:  $-16.833 \pm 1.944$   $\chi^2/\text{NDF}$ : 133.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $2.842 \pm 1.685$   $\chi^2/\text{NDF}$ : 184.6/9

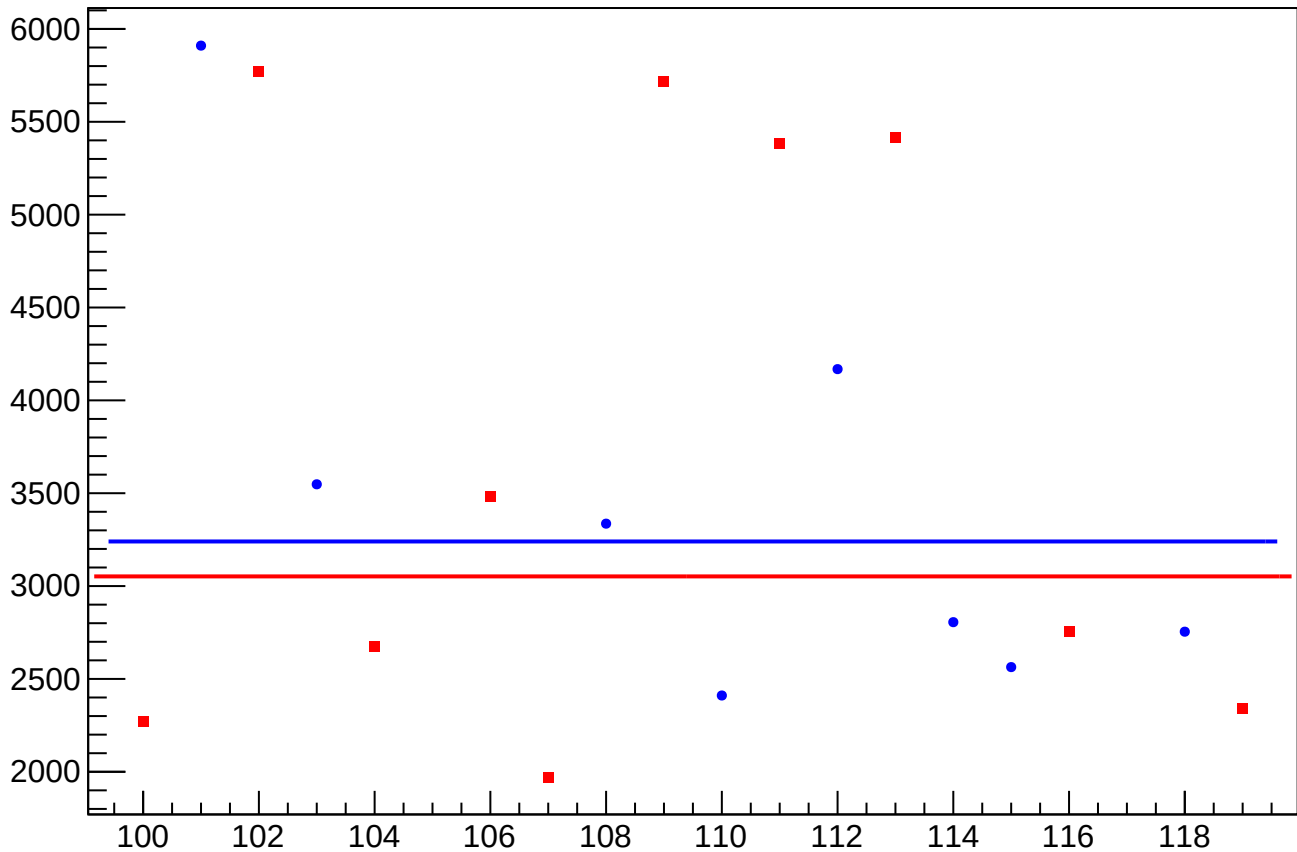
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.594 \pm 1.273$   $\chi^2/\text{NDF}$ : 376.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l02Y\_rms vs Slug



Right In: 3240.175+/-1.375  $\chi^2/\text{NDF}$ : 432747.5/7

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

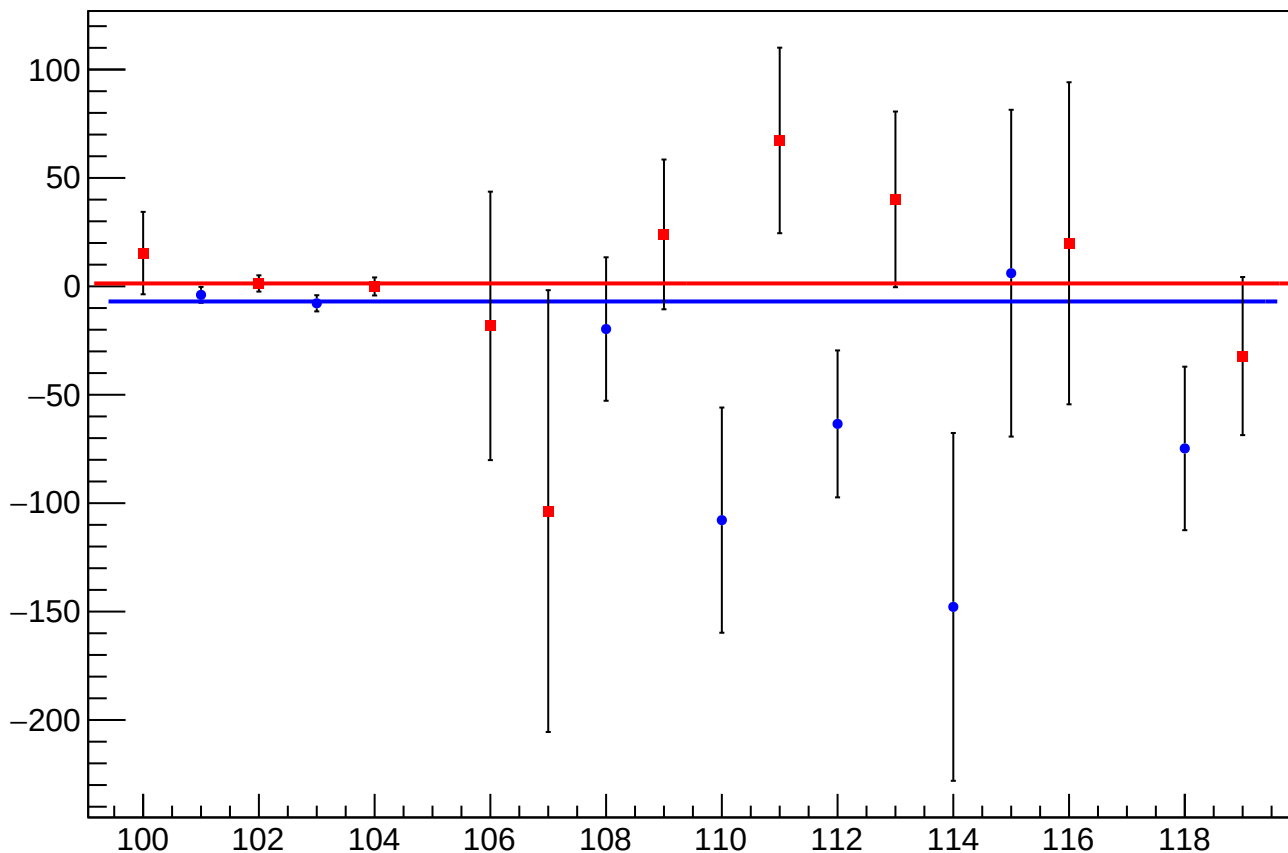
Right Out: 3052.045+/-1.191  $\chi^2/\text{NDF}$ : 1116748.4/9

All: 3132.705+/-0.900  $\chi^2/\text{NDF}$ : 1560190.8/17

- 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\_bpm0l03X\_mean vs Slug



Right In: -6.972 $\pm$ 2.587  $\chi^2$ /NDF: 13.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.341 $\pm$ 2.723  $\chi^2$ /NDF: 6.4/9

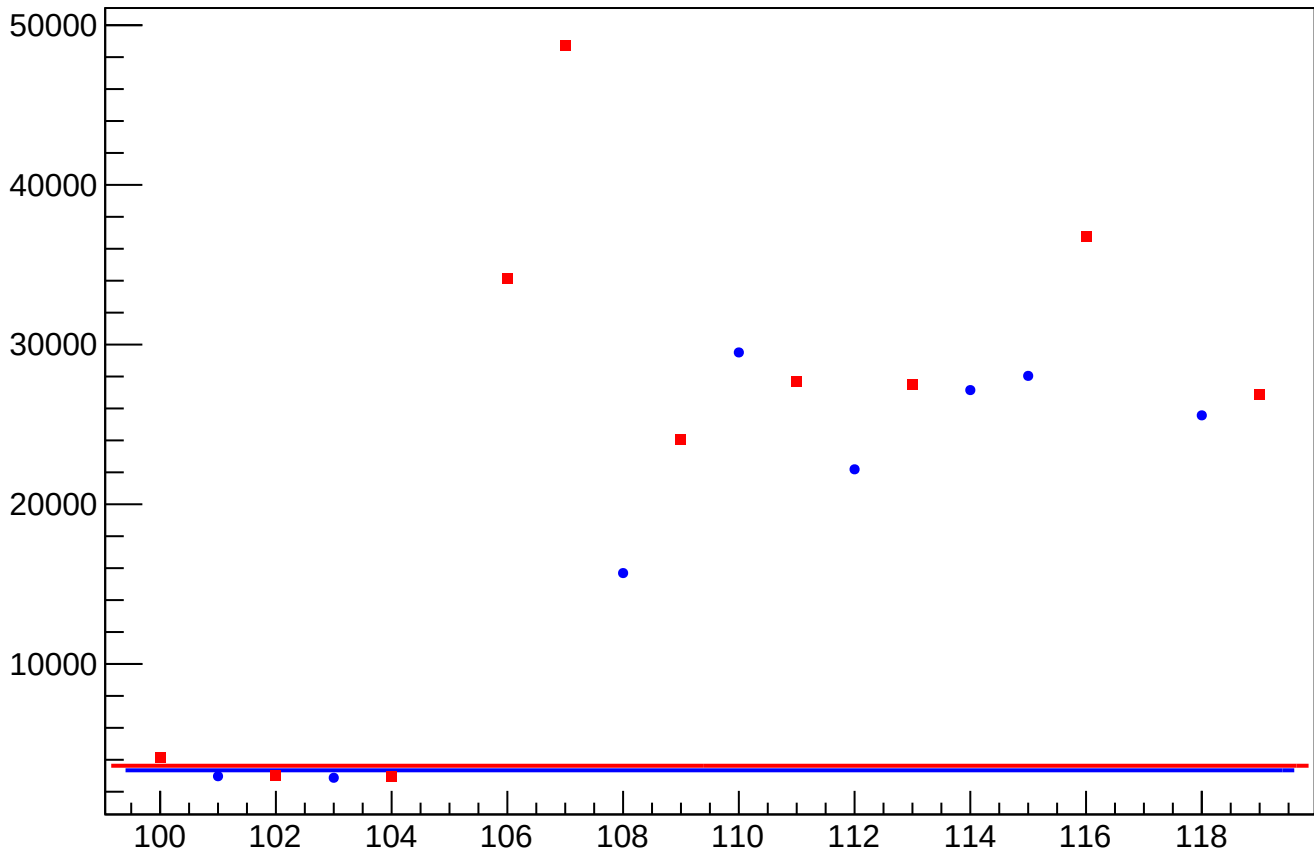
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.027 $\pm$ 1.876  $\chi^2$ /NDF: 25.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l03X\_rms vs Slug



Right In: 3341.279+/-1.830  $\chi^2/\text{NDF}$ : 2542603.4/7

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

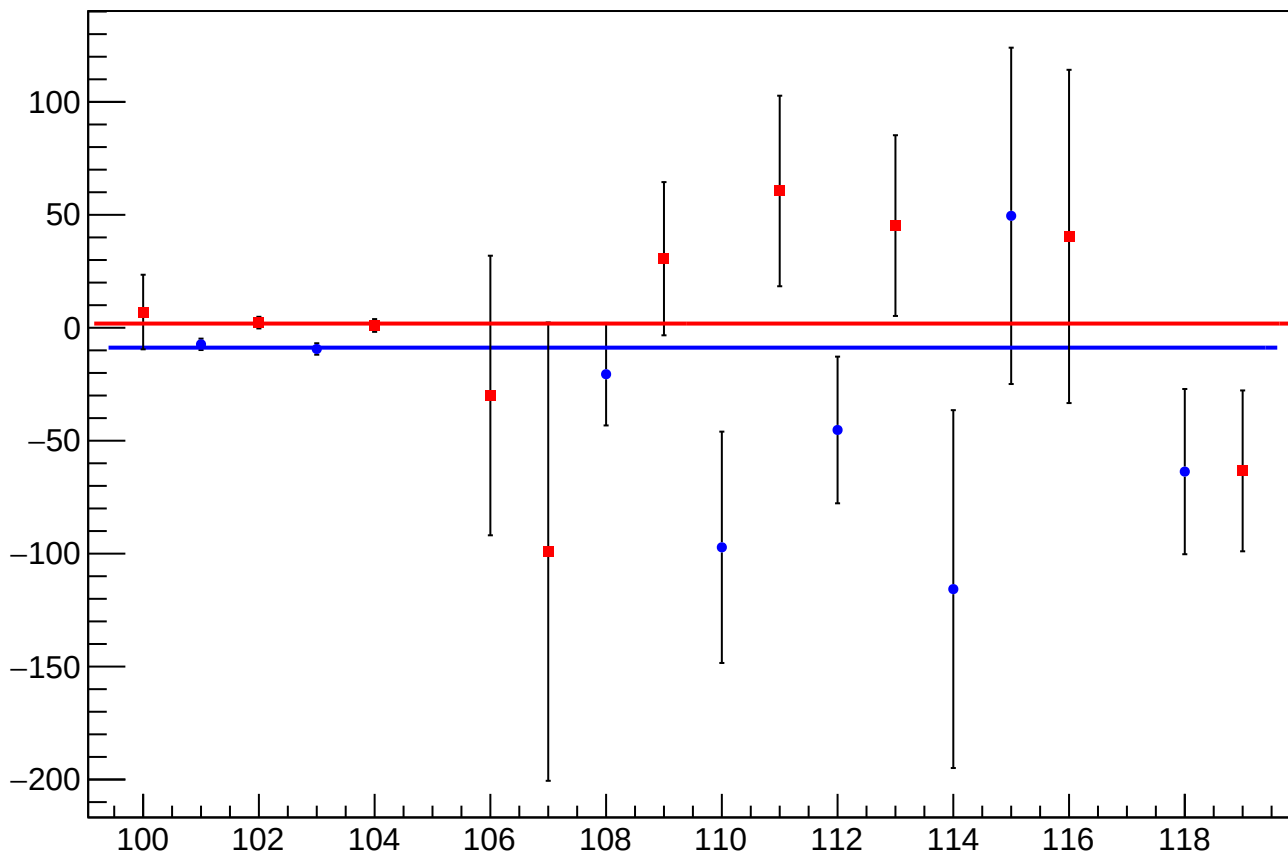
Right Out: 3626.857+/-1.925  $\chi^2/\text{NDF}$ : 4221941.8/9

All: 3476.808+/-1.326  $\chi^2/\text{NDF}$ : 6776107.6/17

- 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: -8.798+/-1.777  $\chi^2/\text{NDF}$ : 9.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.860+/-1.879  $\chi^2/\text{NDF}$ : 8.9/9

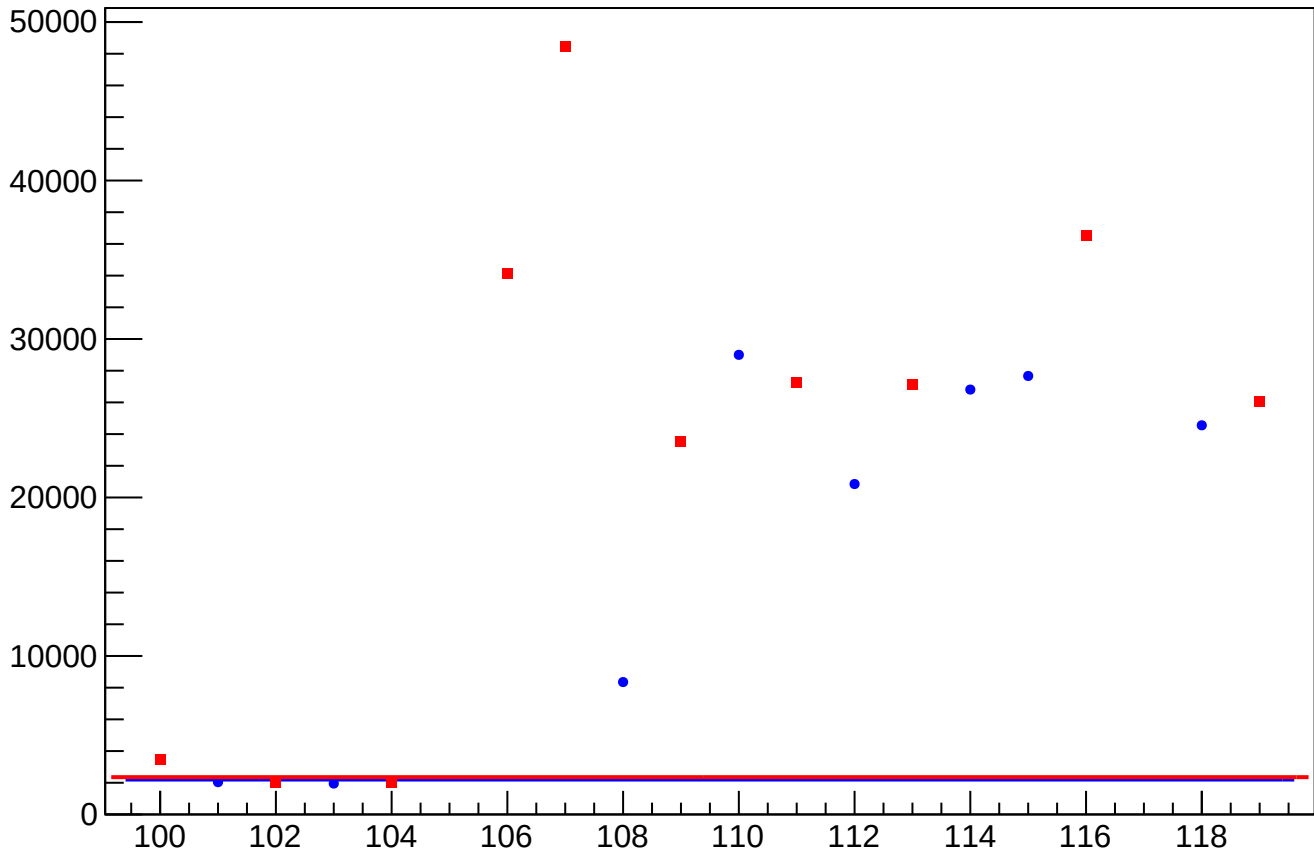
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.766+/-1.291  $\chi^2/\text{NDF}$ : 35.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l03Y\_rms vs Slug



Right In: 2203.419+/-1.257  $\chi^2/\text{NDF}$ : 2556402.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2352.972+/-1.329  $\chi^2/\text{NDF}$ : 4569330.8/9

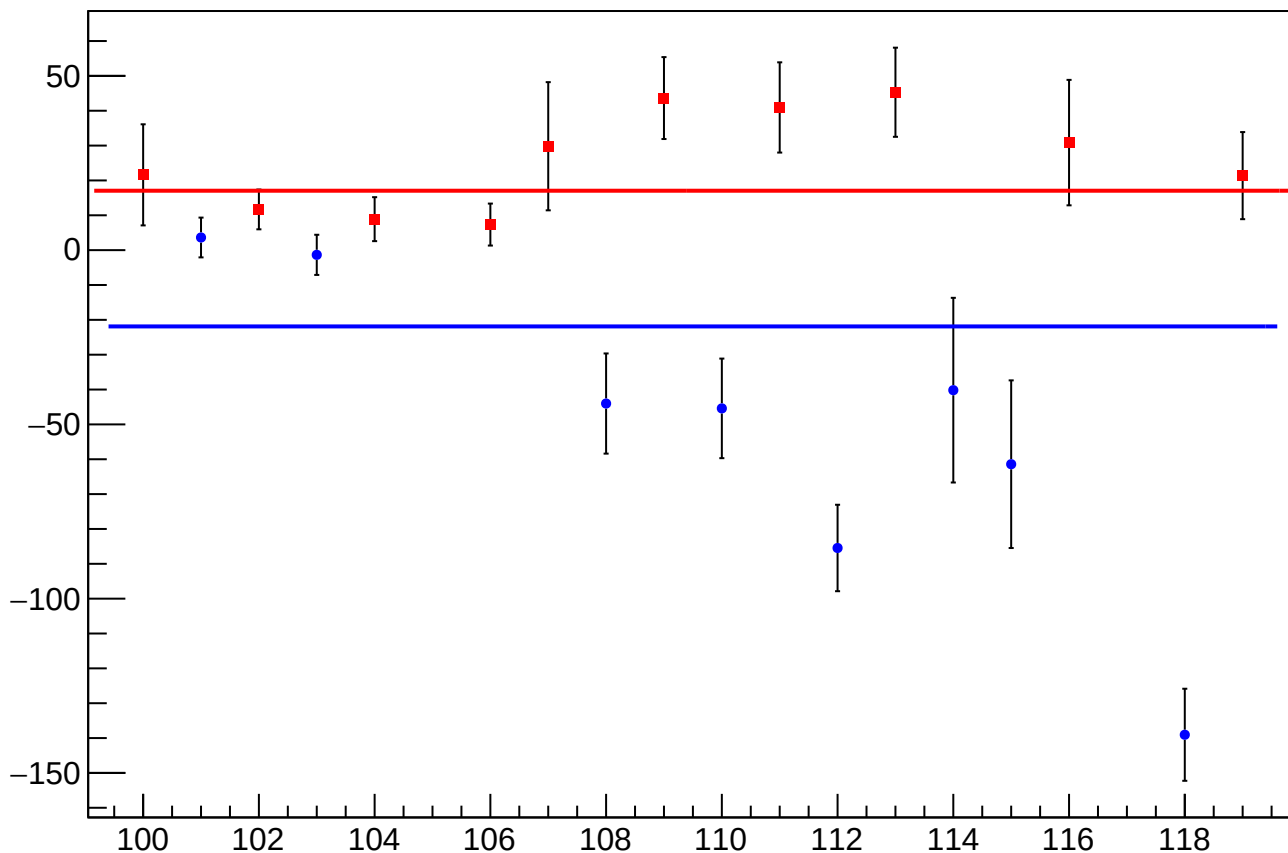
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2274.028+/-0.913  $\chi^2/\text{NDF}$ : 7132420.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l04X\_mean vs Slug



Right In: -21.888 $\pm$ 3.411  $\chi^2$ /NDF: 145.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.049 $\pm$ 2.888  $\chi^2$ /NDF: 19.9/9

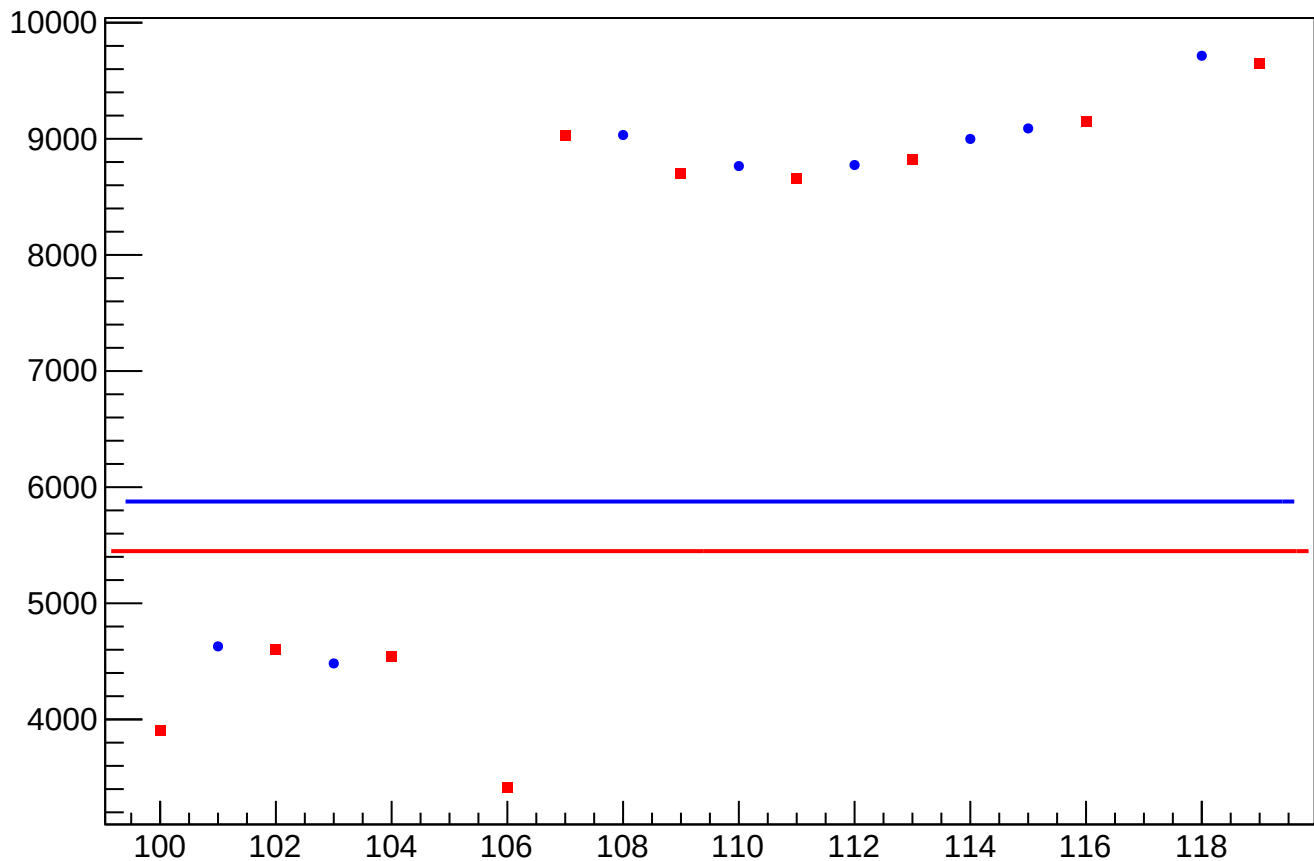
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.794 $\pm$ 2.204  $\chi^2$ /NDF: 241.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l04X\_rms vs Slug



Right In: 5876.460+/-2.412  $\chi^2/\text{NDF}$ : 732523.6/7

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: 5449.184+/-2.042  $\chi^2/\text{NDF}$ : 1137059.5/9

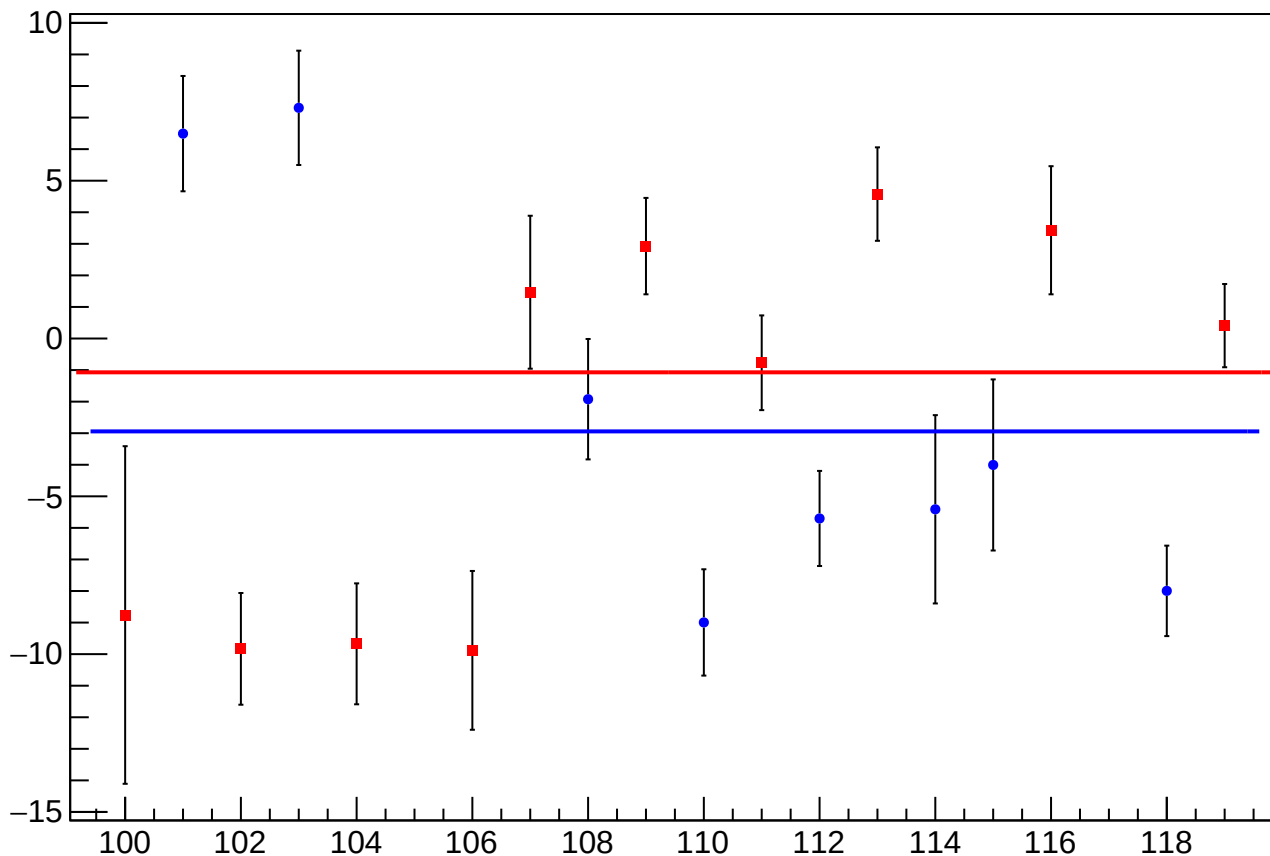
All: 5627.555+/-1.558  $\chi^2/\text{NDF}$ : 1887863.1/17

- 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\_bpm0l04Y\_mean vs Slug



Right In:  $-2.943 \pm 0.644$   $\chi^2/\text{NDF}$ : 88.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.071 \pm 0.568$   $\chi^2/\text{NDF}$ : 87.7/9

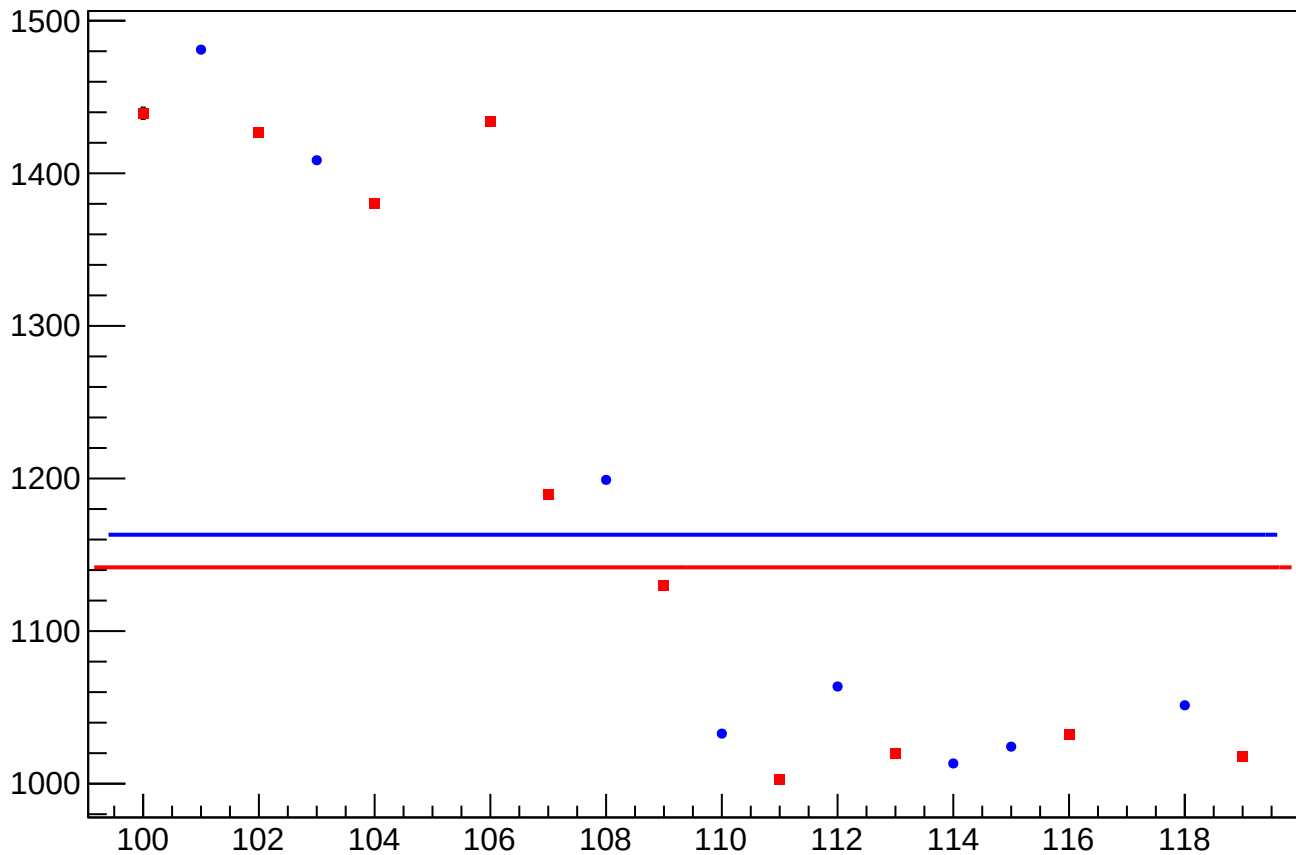
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.889 \pm 0.426$   $\chi^2/\text{NDF}$ : 181.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l04Y\_rms vs Slug



Right In: 1163.151 $\pm$ 0.456  $\chi^2$ /NDF: 141149.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1141.788 $\pm$ 0.401  $\chi^2$ /NDF: 171056.2/9

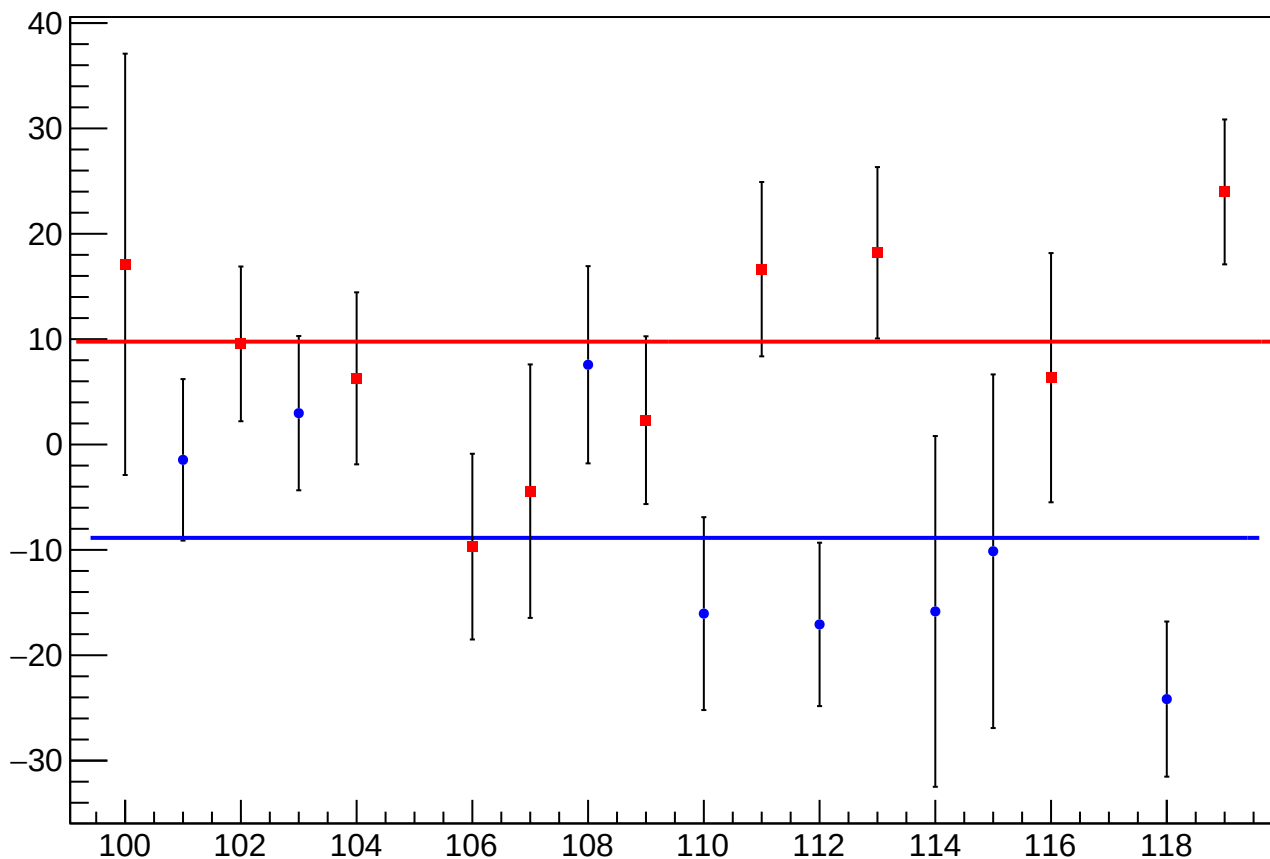
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1151.123 $\pm$ 0.301  $\chi^2$ /NDF: 313442.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l05X\_mean vs Slug



Right In: -8.859+/-3.142  $\chi^2/\text{NDF}$ : 12.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9.764+/-2.777  $\chi^2/\text{NDF}$ : 13.6/9

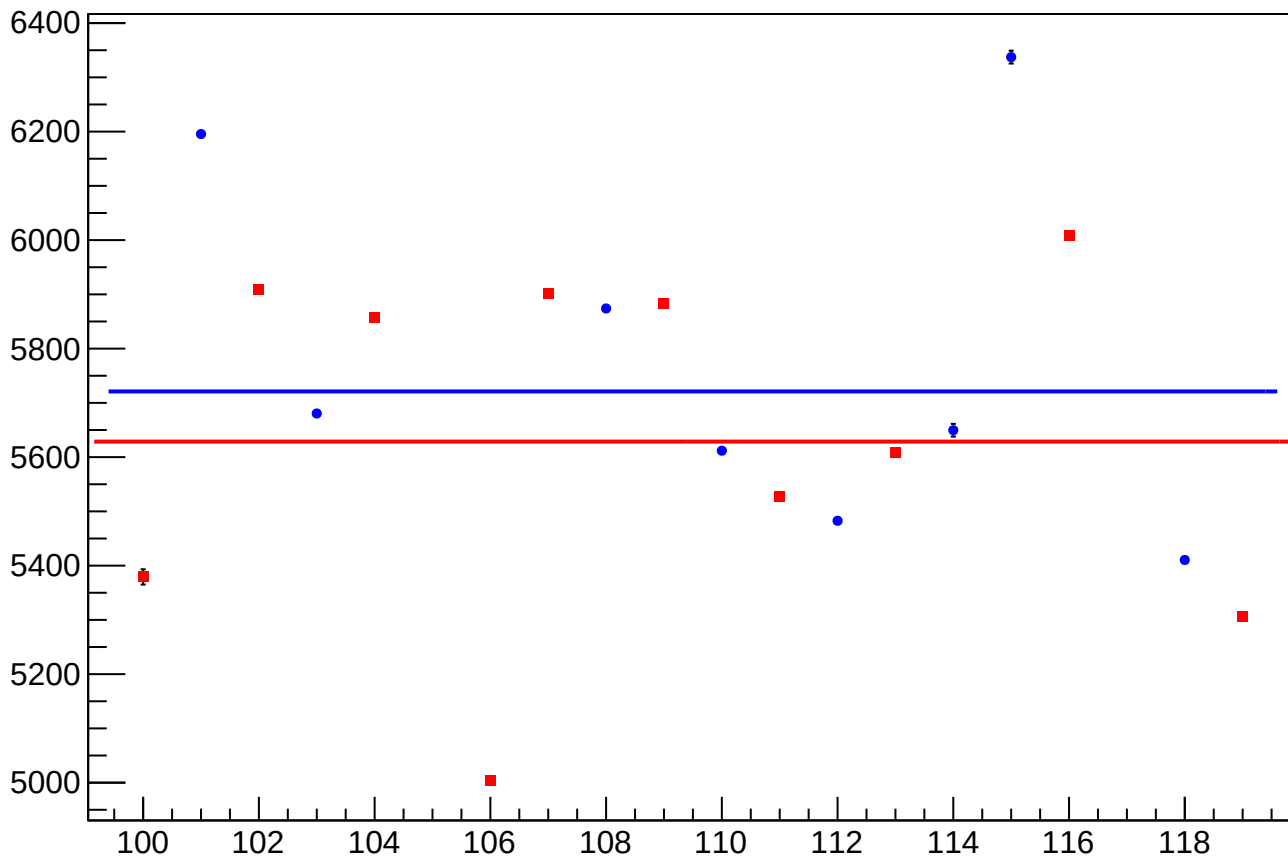
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.596+/-2.081  $\chi^2/\text{NDF}$ : 46.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l05X\_rms vs Slug



Right In: 5721.062 $\pm$ 2.222  $\chi^2$ /NDF: 16733.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5628.615 $\pm$ 1.964  $\chi^2$ /NDF: 24657.9/9

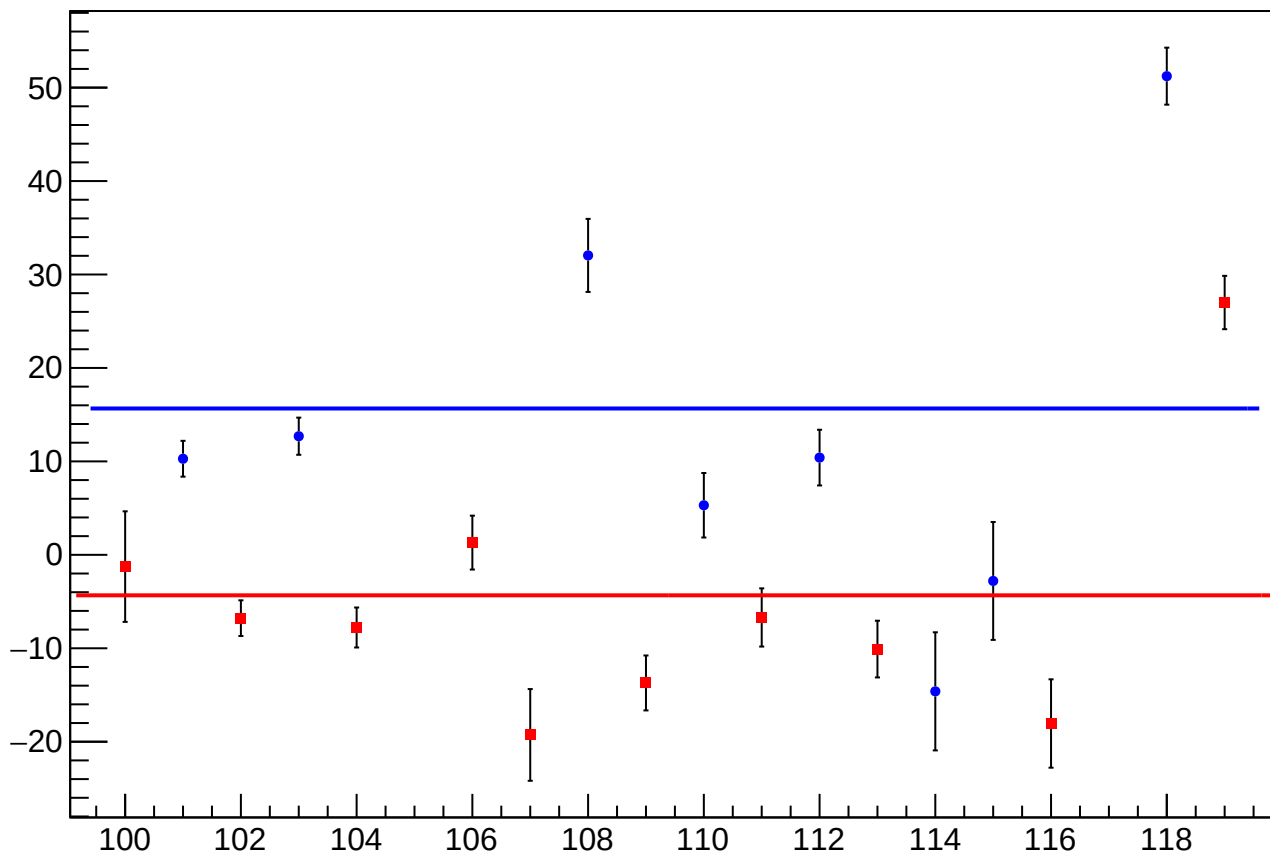
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5669.163 $\pm$ 1.471  $\chi^2$ /NDF: 42362.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l05Y\_mean vs Slug



Right In: 15.662 $\pm$ 1.029  $\chi^2$ /NDF: 207.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4.332 $\pm$ 0.921  $\chi^2$ /NDF: 160.8/9

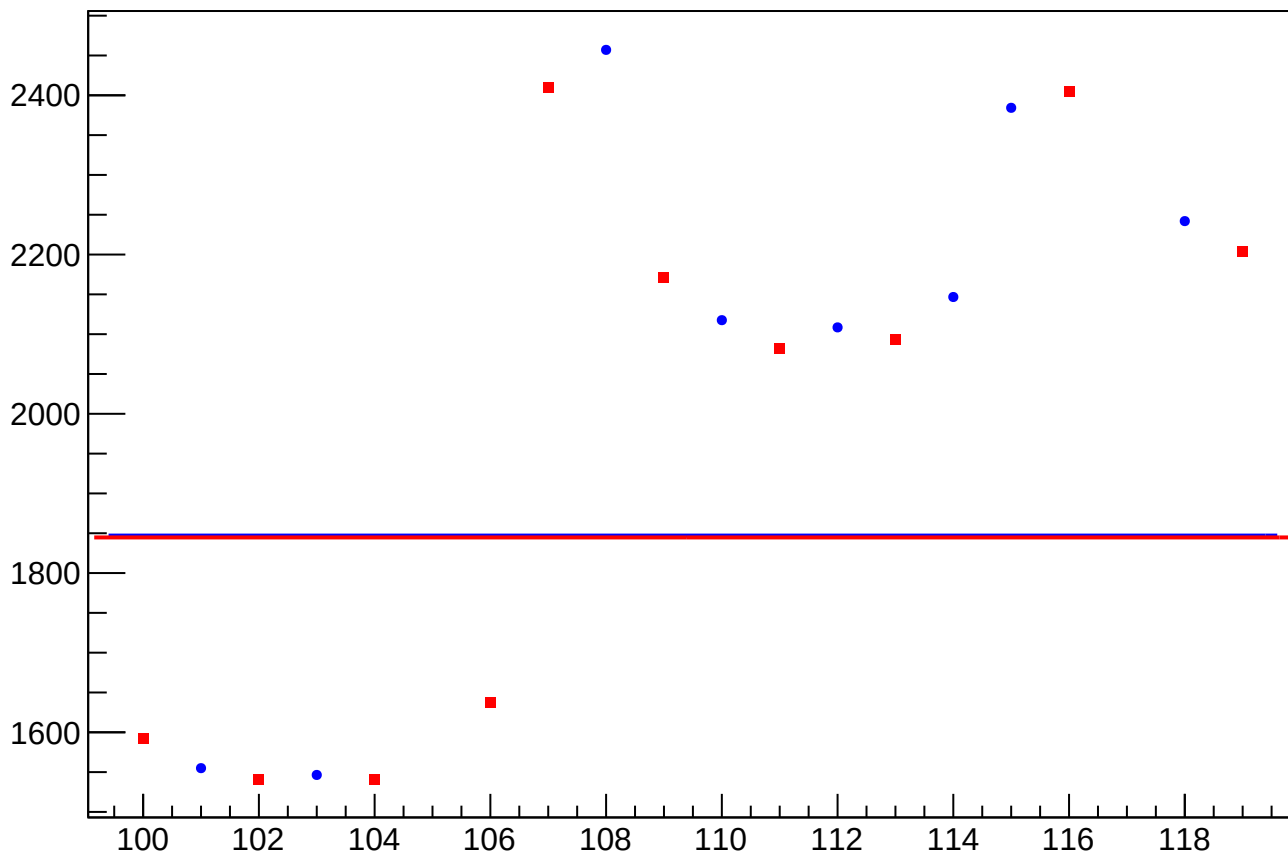
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.567 $\pm$ 0.686  $\chi^2$ /NDF: 577.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l05Y\_rms vs Slug



Right In: 1847.046 $\pm$ 0.728  $\chi^2$ /NDF: 221066.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1844.723 $\pm$ 0.652  $\chi^2$ /NDF: 240952.8/9

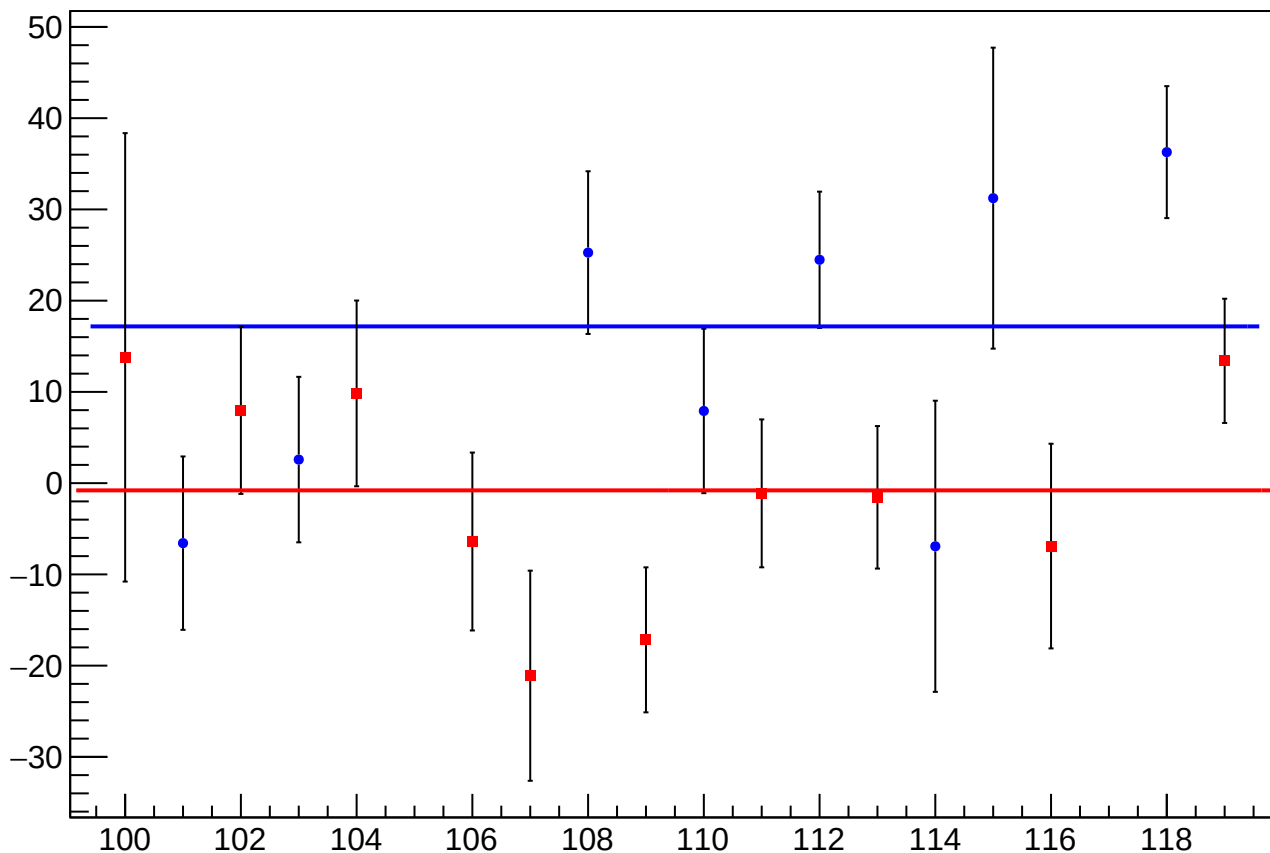
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1845.757 $\pm$ 0.485  $\chi^2$ /NDF: 462025.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l06X\_mean vs Slug



Right In: 17.179 $\pm$ 3.283  $\chi^2$ /NDF: 21.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.791 $\pm$ 2.908  $\chi^2$ /NDF: 14.7/9

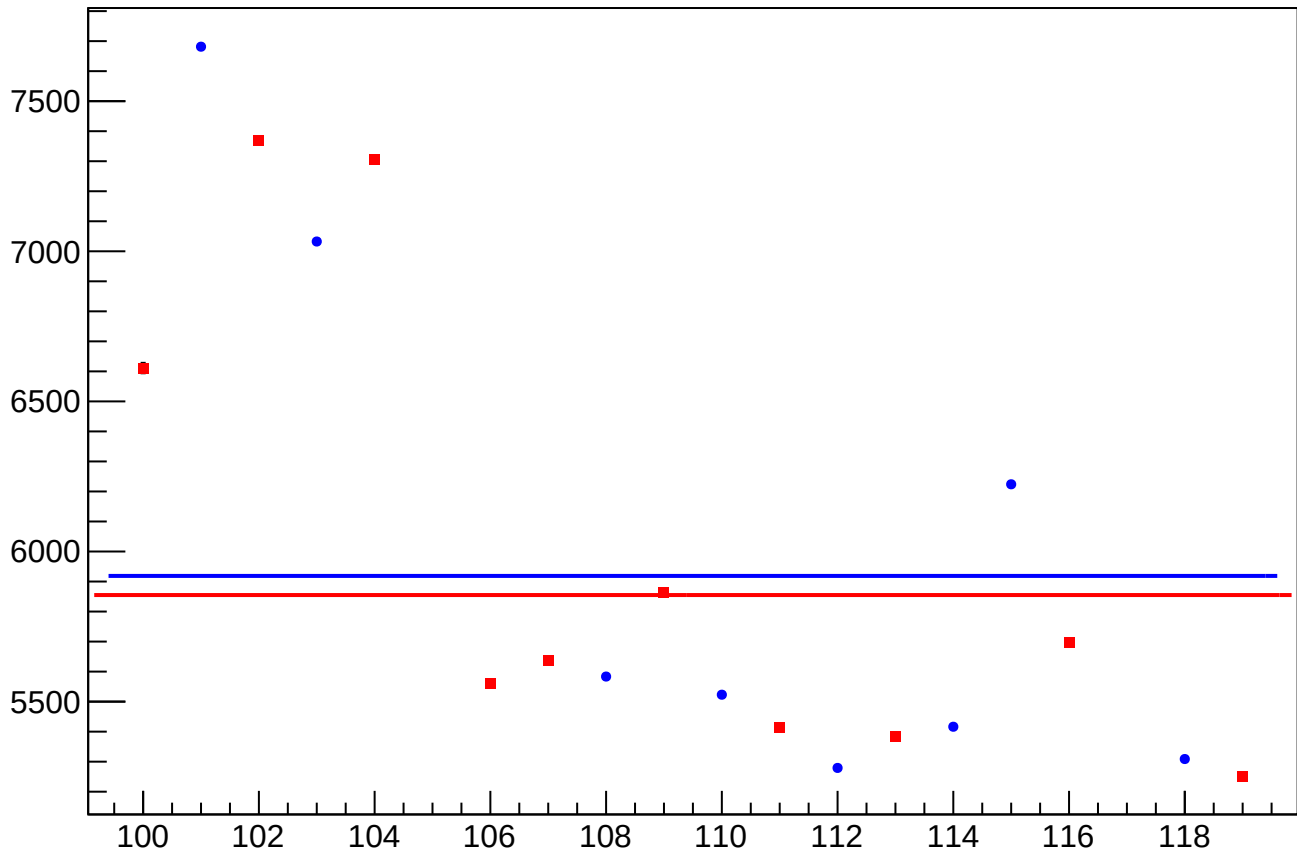
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.109 $\pm$ 2.177  $\chi^2$ /NDF: 53.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l06X\_rms vs Slug



Right In: 5918.712 $\pm$ 2.321  $\chi^2$ /NDF: 137276.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5854.980 $\pm$ 2.056  $\chi^2$ /NDF: 129097.6/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

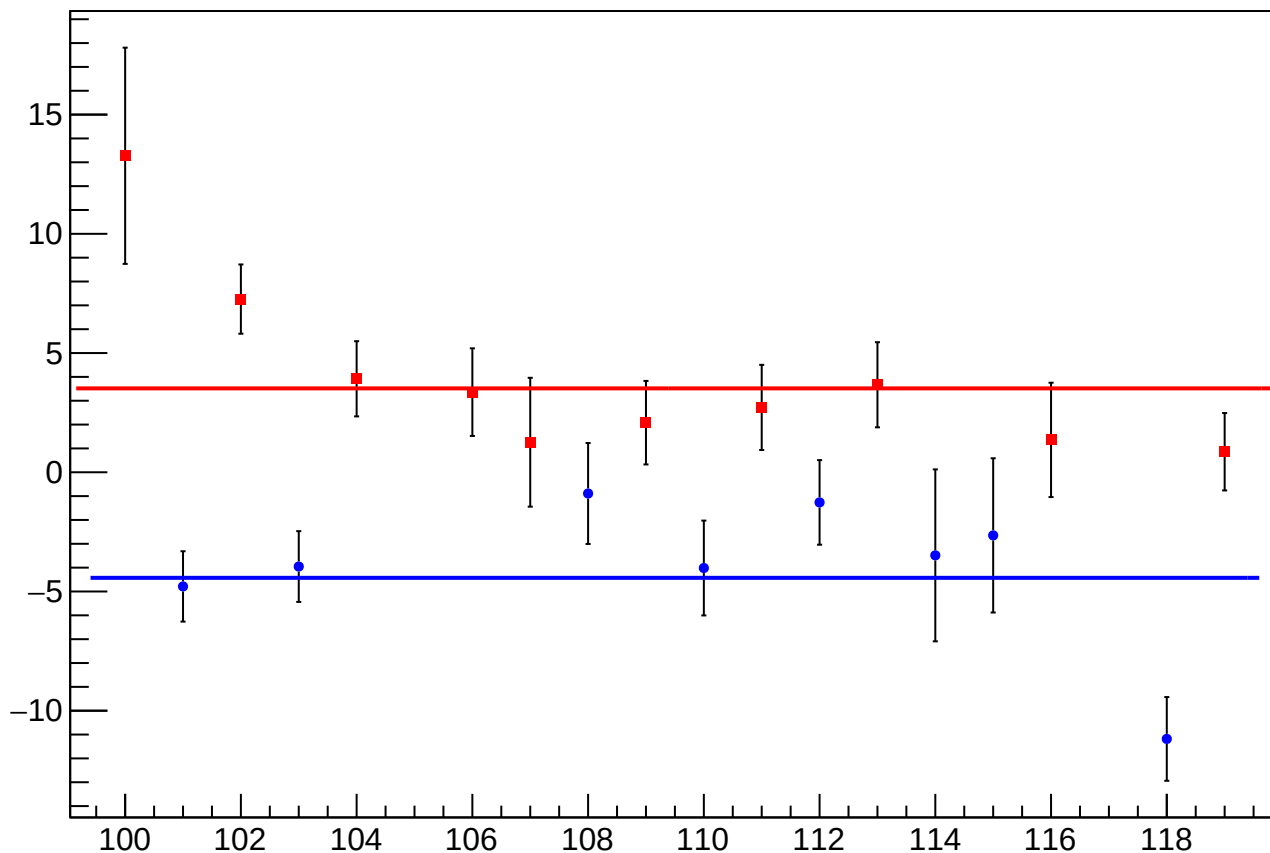
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5882.998 $\pm$ 1.539  $\chi^2$ /NDF: 266796.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm0l06Y\_mean vs Slug



Right In:  $-4.427 \pm 0.674$   $\chi^2/\text{NDF}$ : 21.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $3.518 \pm 0.591$   $\chi^2/\text{NDF}$ : 16.4/9

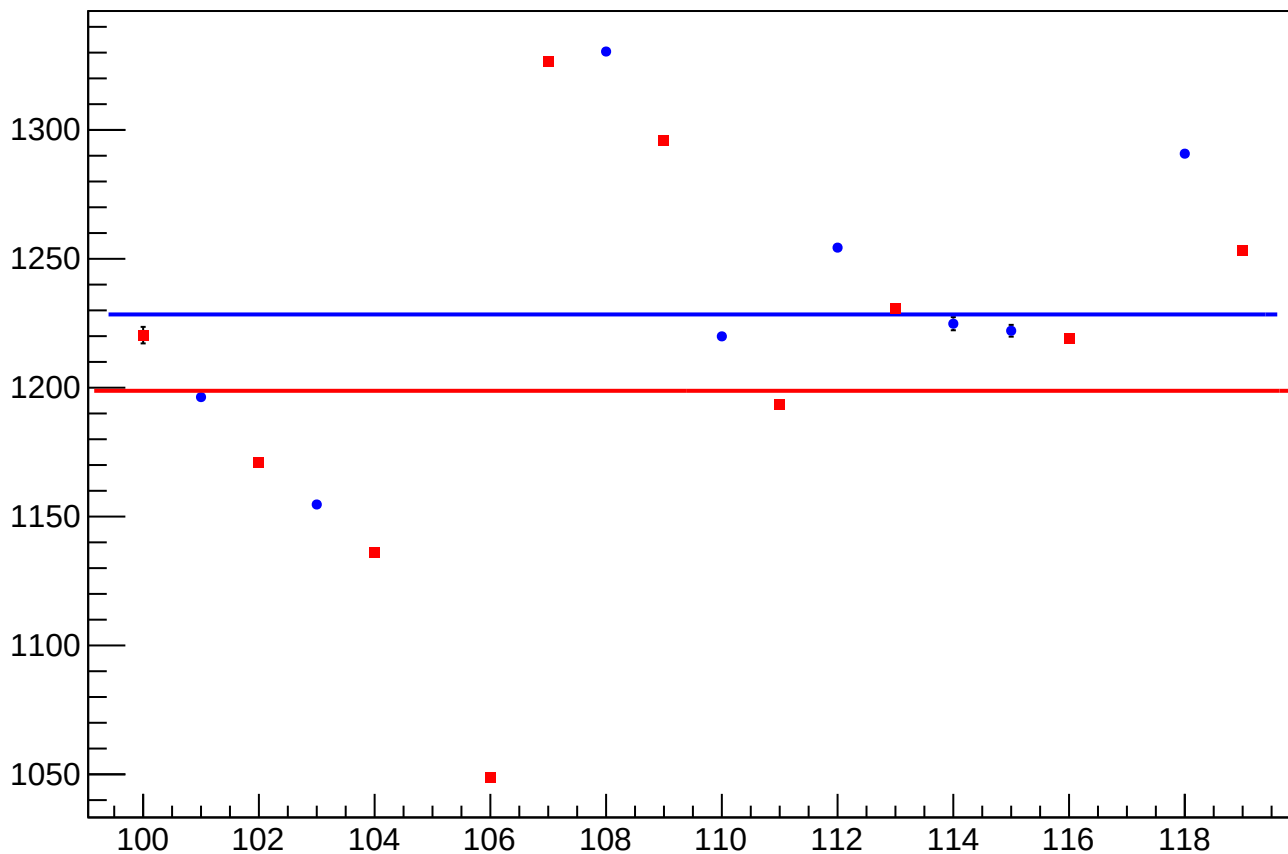
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.063 \pm 0.444$   $\chi^2/\text{NDF}$ : 116.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l06Y\_rms vs Slug



Right In: 1228.419+/-0.476  $\chi^2/\text{NDF}$ : 13523.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1198.796+/-0.418  $\chi^2/\text{NDF}$ : 30981.3/9

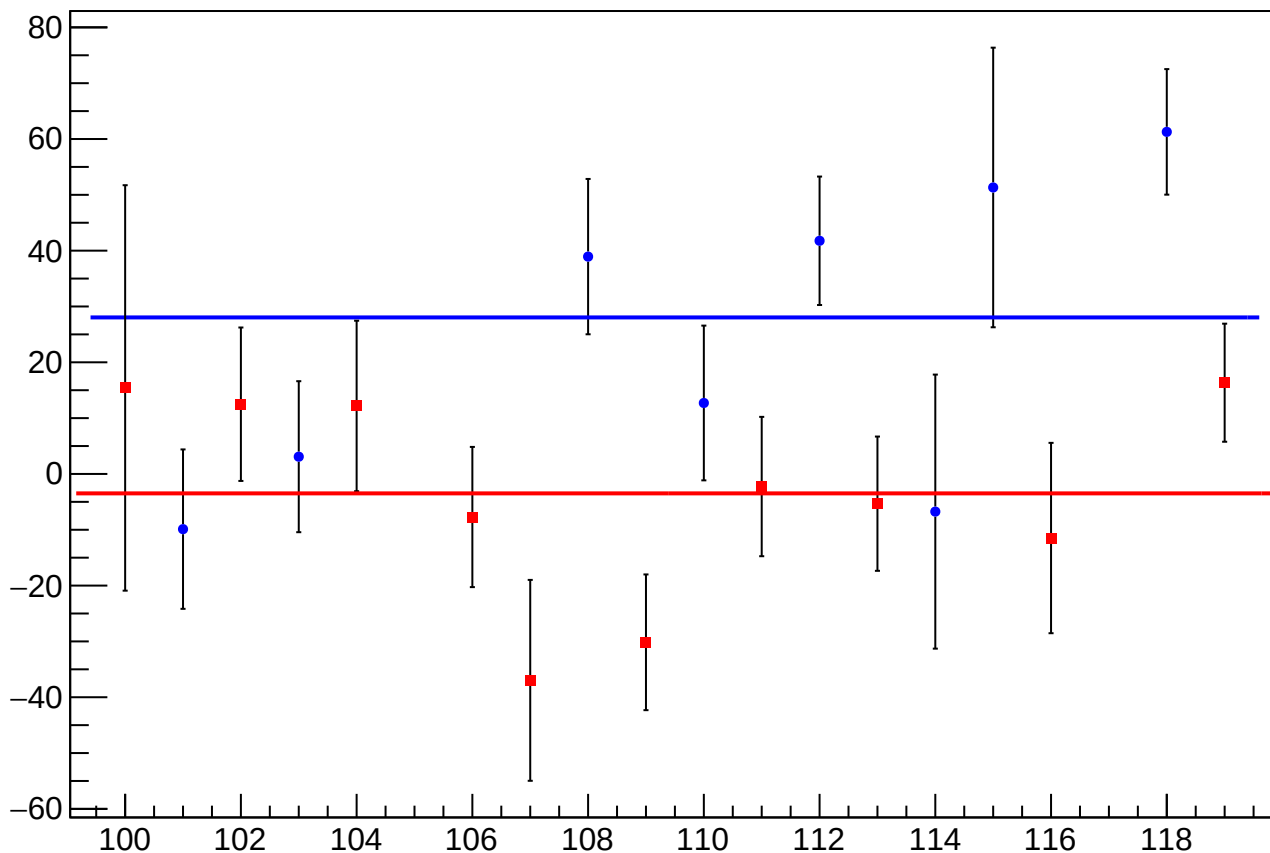
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1211.677+/-0.314  $\chi^2/\text{NDF}$ : 46691.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l07X\_mean vs Slug



Right In: 28.039 $\pm$ 5.034  $\chi^2$ /NDF: 25.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.481 $\pm$ 4.375  $\chi^2$ /NDF: 14.8/9

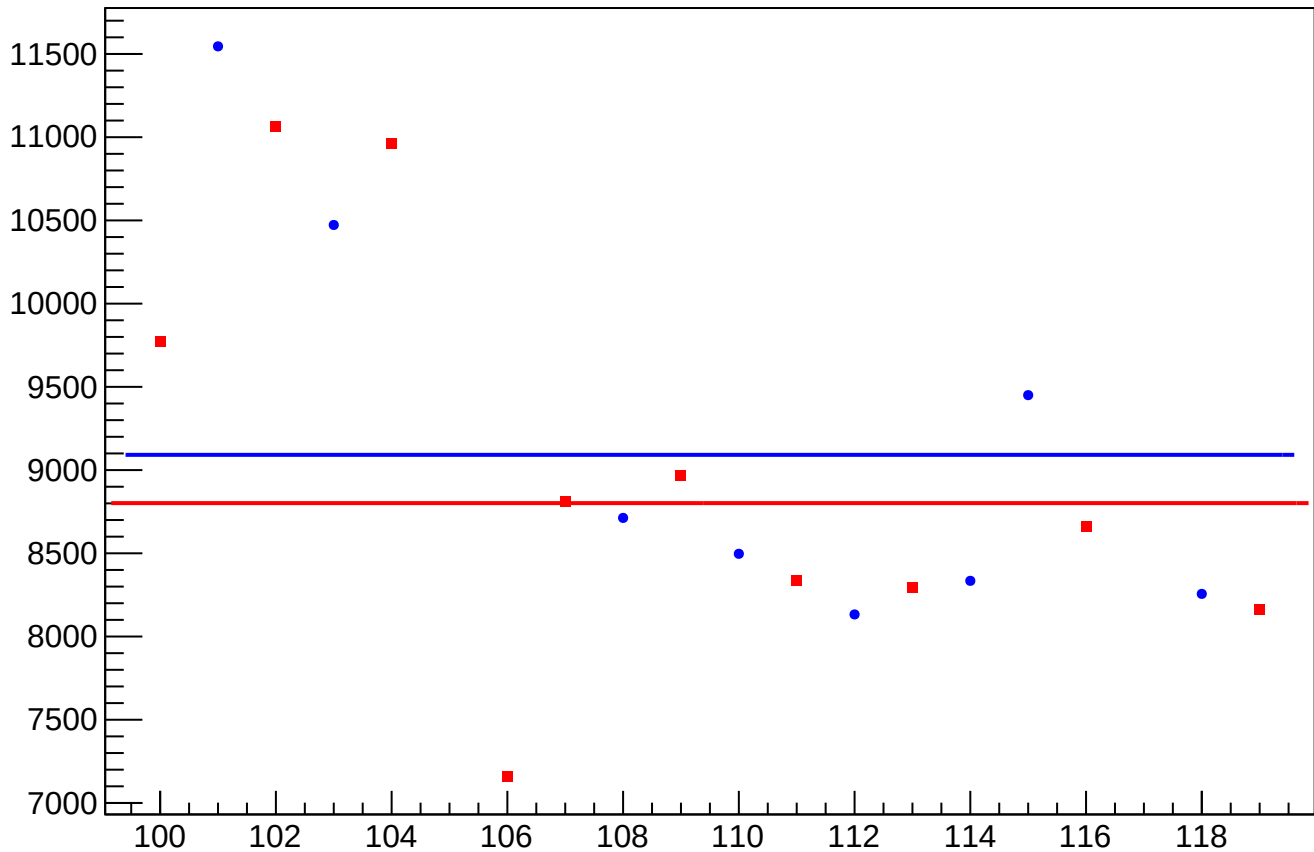
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.081 $\pm$ 3.302  $\chi^2$ /NDF: 62.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l07X\_rms vs Slug



Right In: 9091.578+/-3.560  $\chi^2/\text{NDF}$ : 112343.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8801.490+/-3.093  $\chi^2/\text{NDF}$ : 143885.2/9

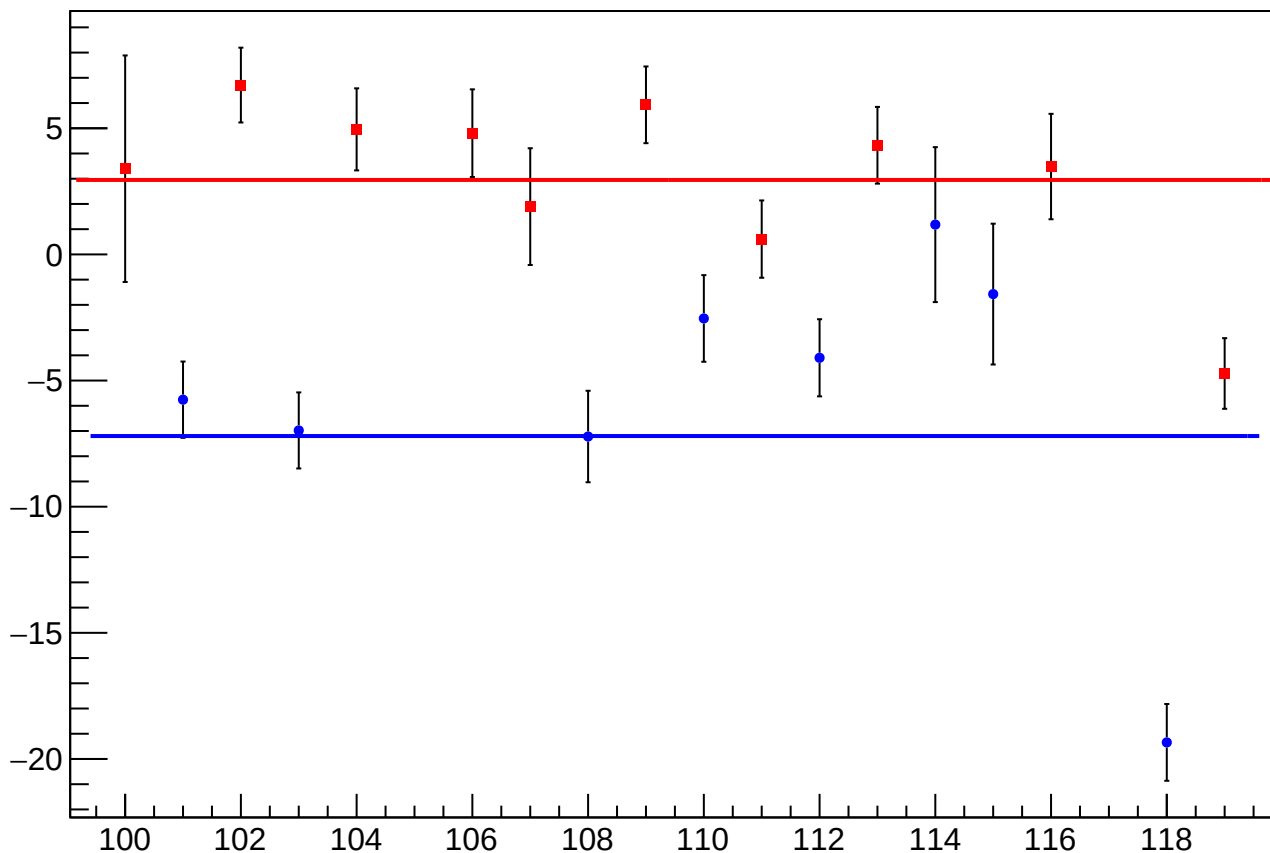
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8926.304+/-2.335  $\chi^2/\text{NDF}$ : 260011.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l07Y\_mean vs Slug



Right In: -7.199+/-0.618  $\chi^2/\text{NDF}$ : 87.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.951+/-0.540  $\chi^2/\text{NDF}$ : 46.4/9

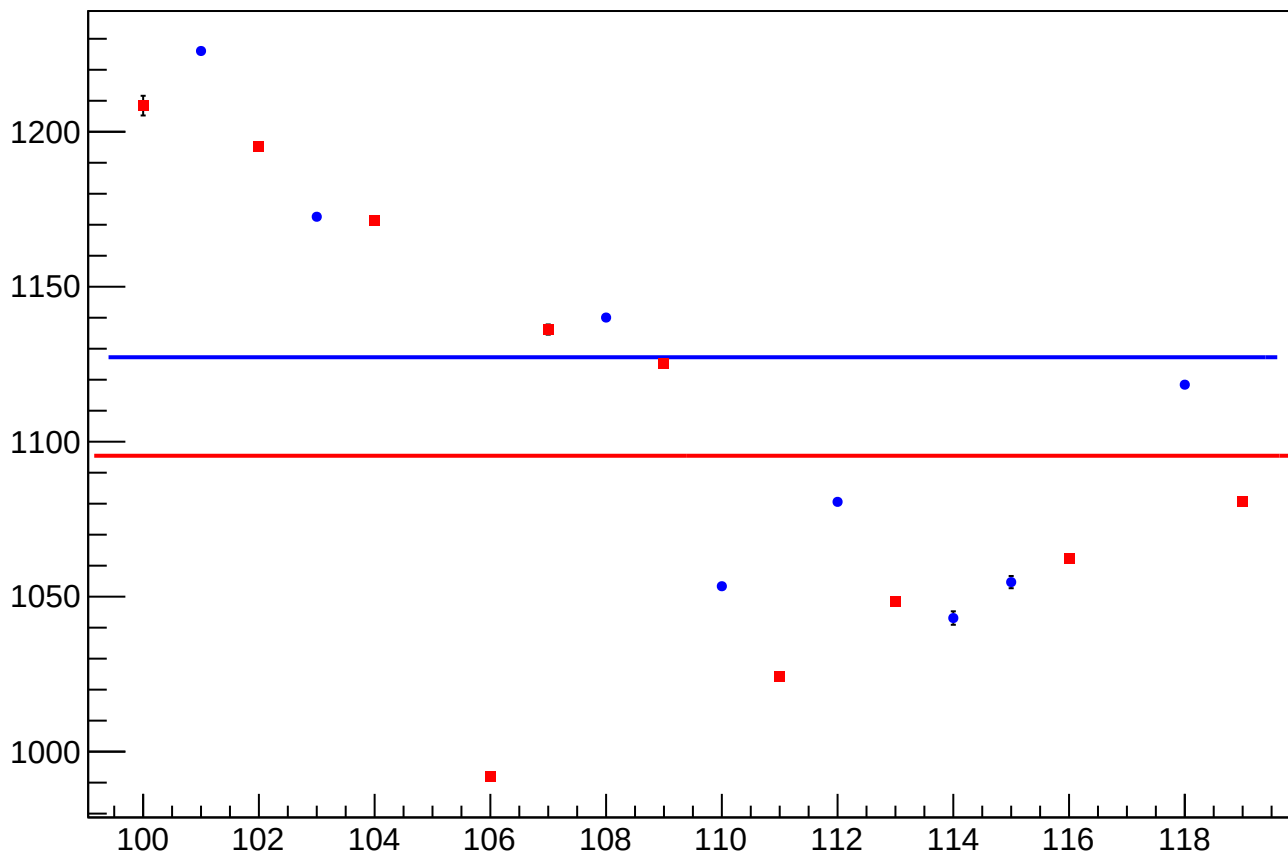
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.438+/-0.407  $\chi^2/\text{NDF}$ : 286.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l07Y\_rms vs Slug



Right In: 1127.248 $\pm$ 0.437  $\chi^2$ /NDF: 18937.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1095.464 $\pm$ 0.382  $\chi^2$ /NDF: 30157.3/9

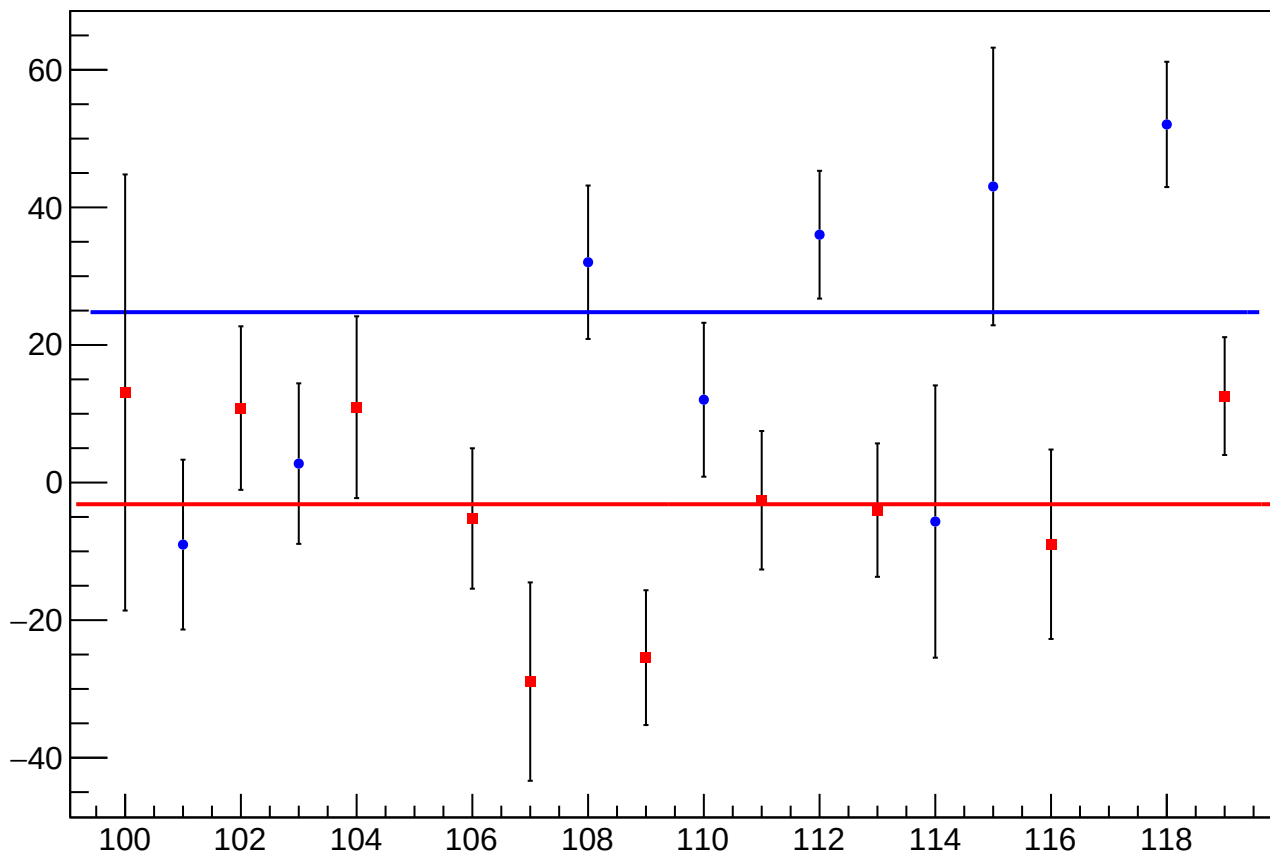
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1109.210 $\pm$ 0.288  $\chi^2$ /NDF: 52092.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l08X\_mean vs Slug



Right In: 24.769+/-4.131  $\chi^2$ /NDF: 26.4/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.149+/-3.580  $\chi^2$ /NDF: 14.8/9

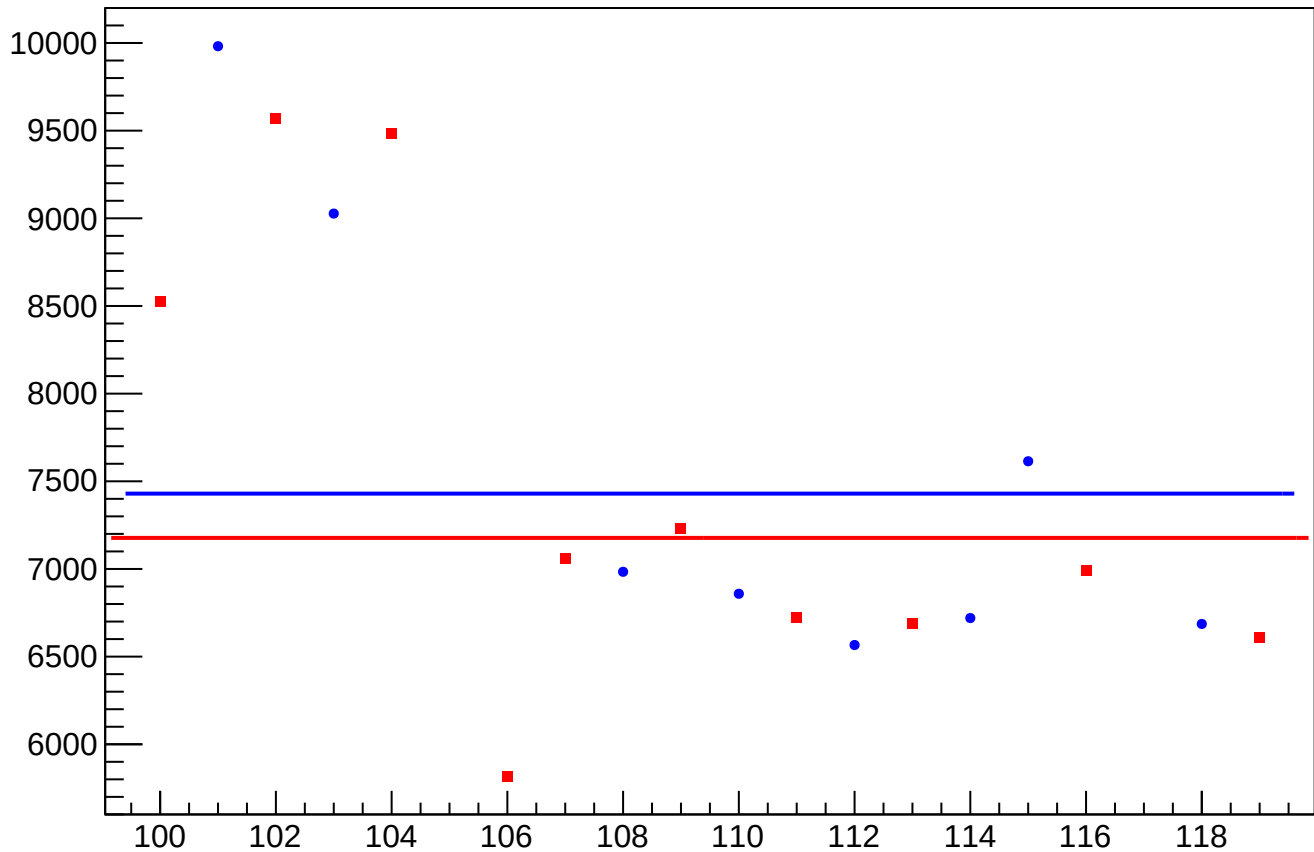
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 8.825+/-2.705  $\chi^2$ /NDF: 67.3/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l08X\_rms vs Slug



Right In: 7429.712 $\pm$ 2.921  $\chi^2$ /NDF: 164724.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7177.191 $\pm$ 2.531  $\chi^2$ /NDF: 199661.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

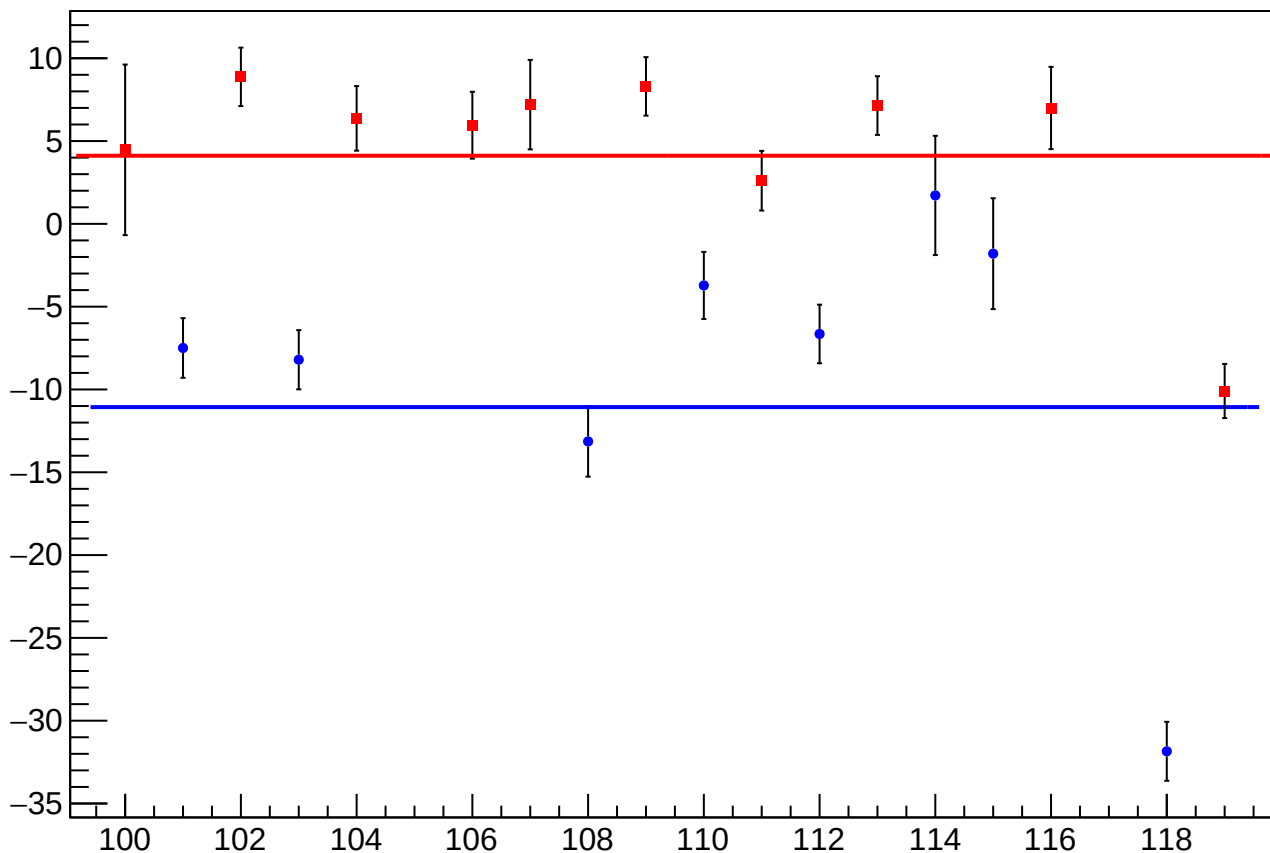
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7285.490 $\pm$ 1.913  $\chi^2$ /NDF: 368654.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm0l08Y\_mean vs Slug



Right In: -11.064 $\pm$ 0.728  $\chi^2$ /NDF: 183.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.114 $\pm$ 0.634  $\chi^2$ /NDF: 96.9/9

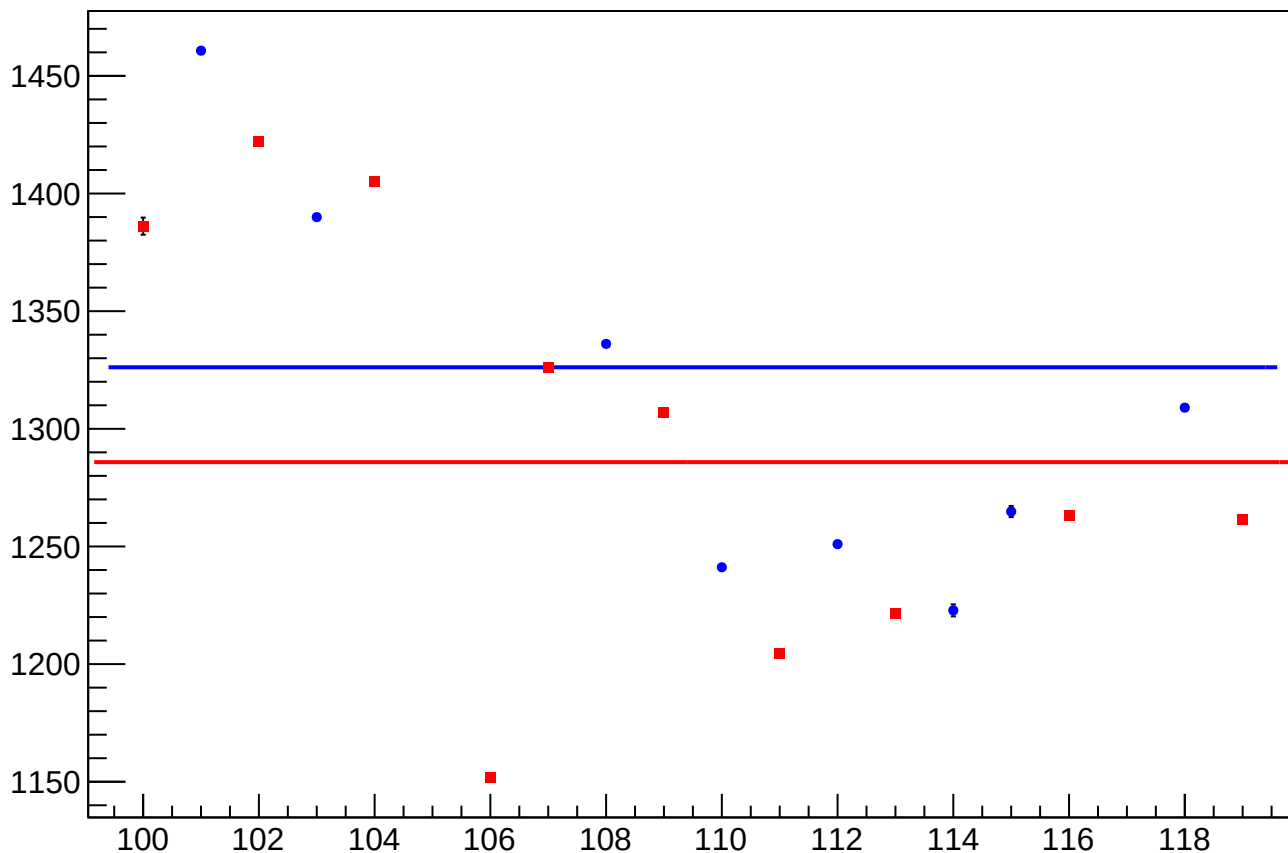
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2.434 $\pm$ 0.478  $\chi^2$ /NDF: 527.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l08Y\_rms vs Slug



Right In: 1326.155 $\pm$ 0.515  $\chi^2$ /NDF: 23397.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1285.848 $\pm$ 0.448  $\chi^2$ /NDF: 37037.6/9

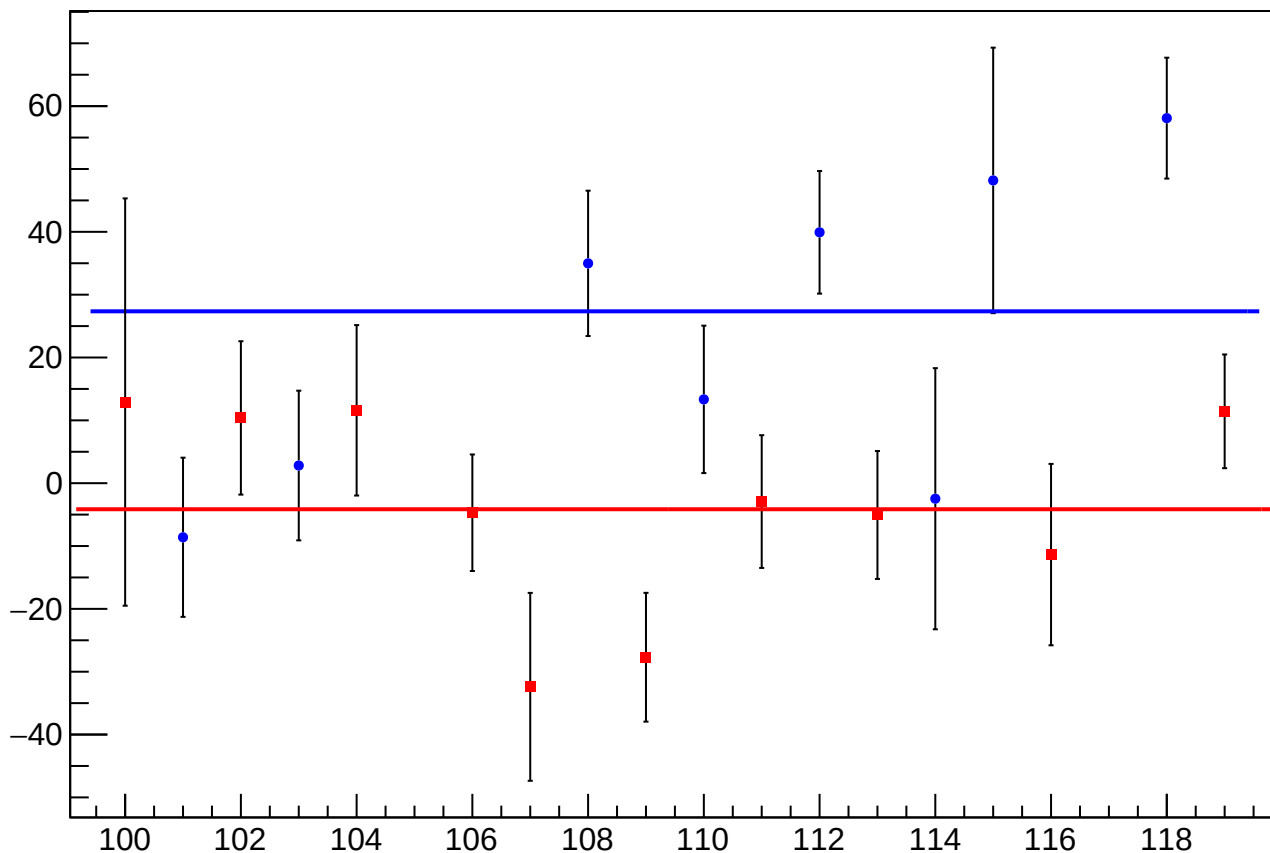
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1303.237 $\pm$ 0.338  $\chi^2$ /NDF: 63922.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l09X\_mean vs Slug



Right In: 27.352 $\pm$ 4.307  $\chi^2$ /NDF: 29.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4.145 $\pm$ 3.667  $\chi^2$ /NDF: 15.1/9

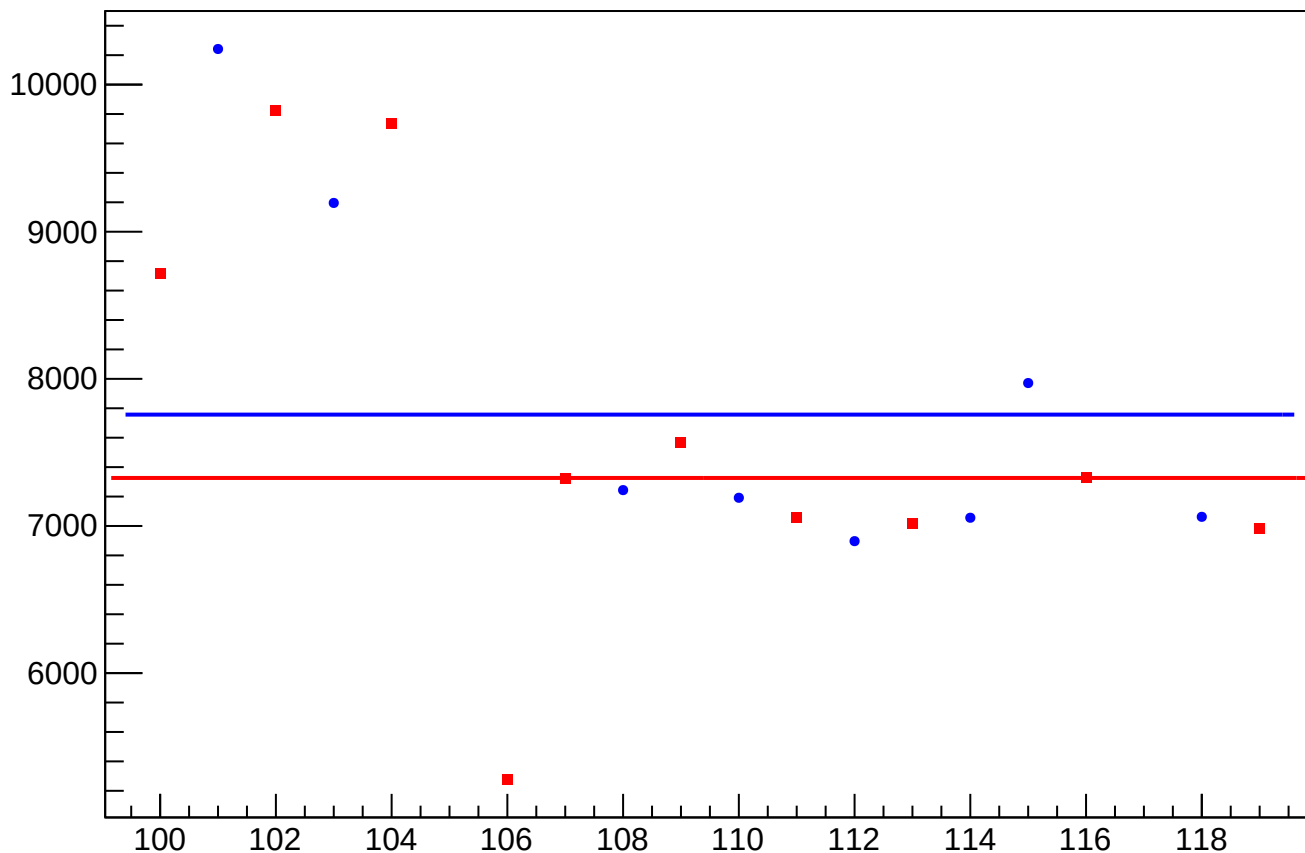
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.091 $\pm$ 2.792  $\chi^2$ /NDF: 75.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l09X\_rms vs Slug



Right In: 7756.954 $\pm$ 3.046  $\chi^2$ /NDF: 143216.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7326.395 $\pm$ 2.593  $\chi^2$ /NDF: 255447.7/9

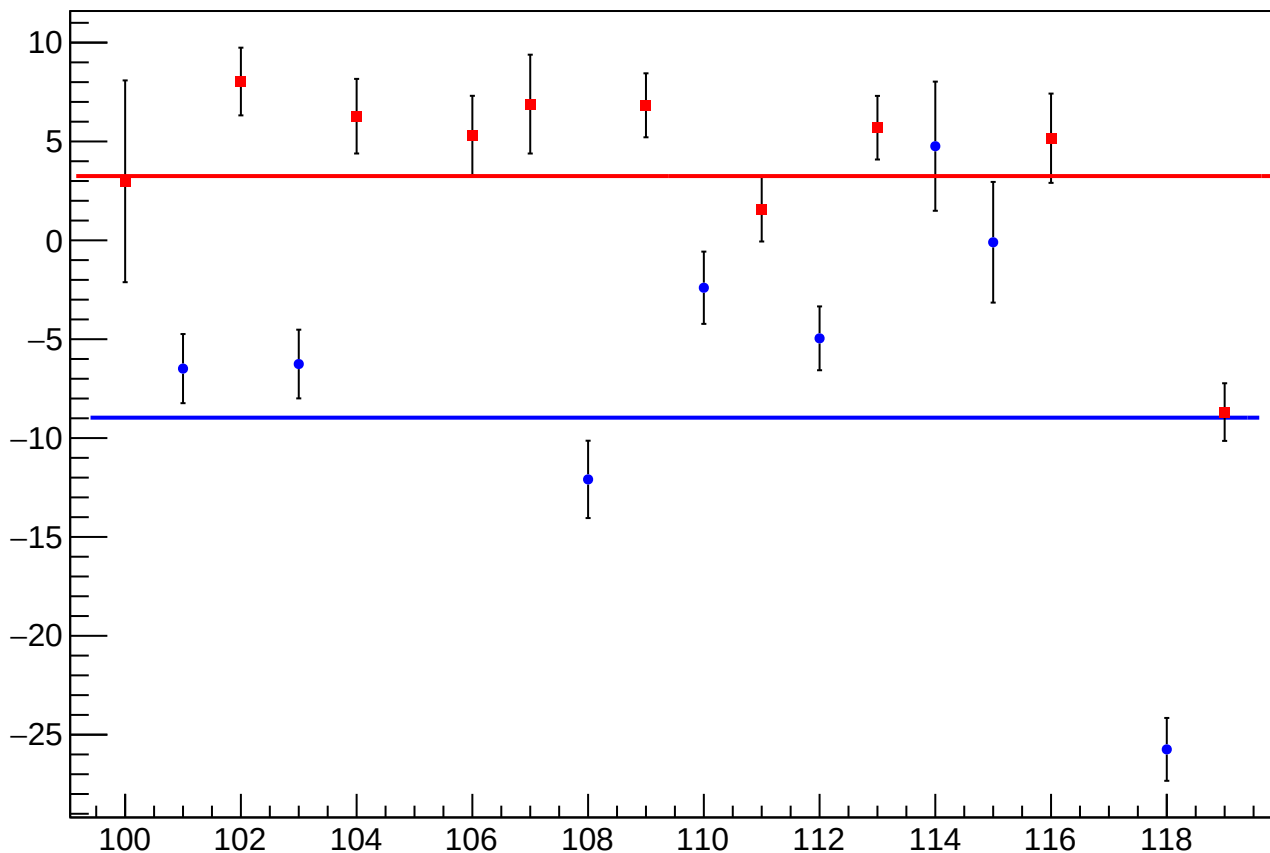
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7507.339 $\pm$ 1.974  $\chi^2$ /NDF: 410250.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l09Y\_mean vs Slug



Right In: -8.968+/-0.674  $\chi^2/\text{NDF}$ : 163.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.250+/-0.589  $\chi^2/\text{NDF}$ : 89.6/9

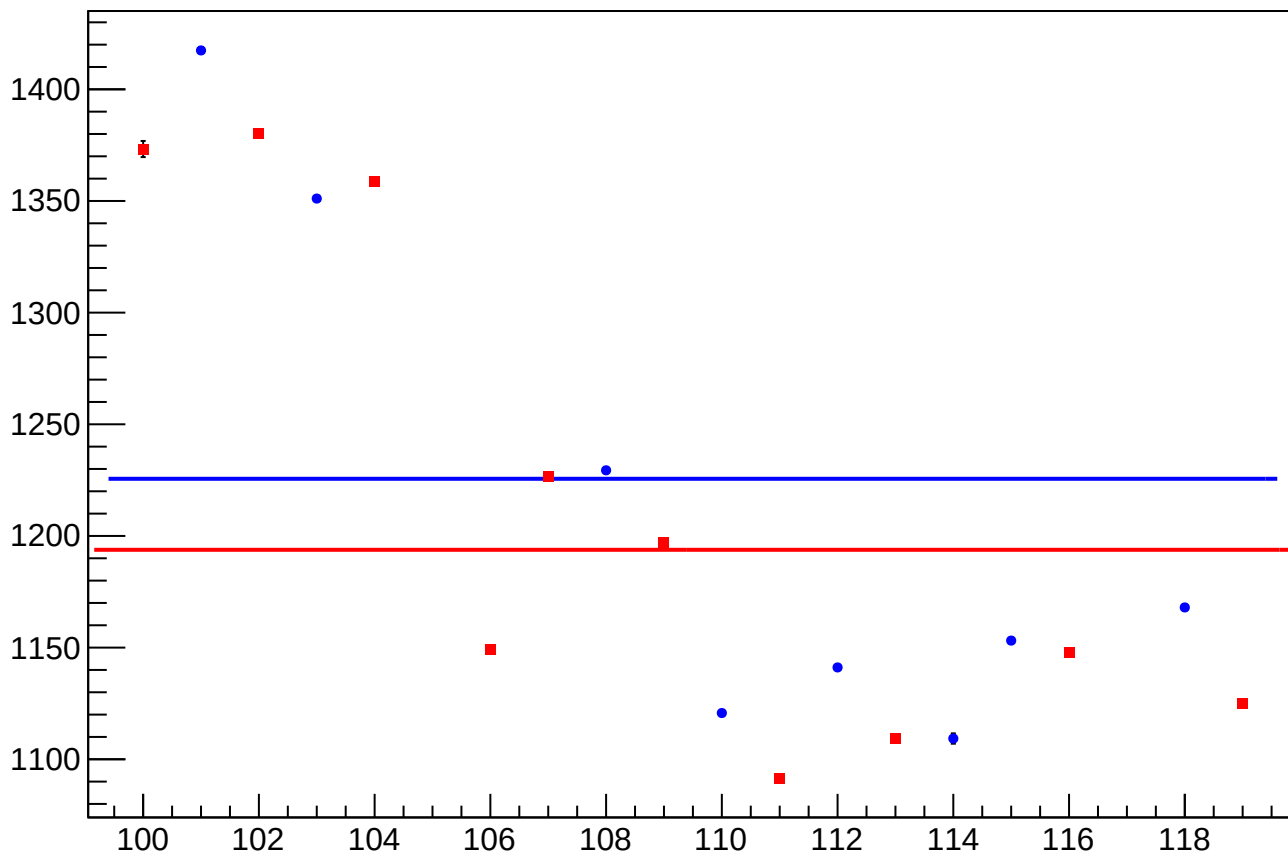
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.044+/-0.444  $\chi^2/\text{NDF}$ : 439.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l09Y\_rms vs Slug



Right In: 1225.596 $\pm$ 0.477  $\chi^2$ /NDF: 52890.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1193.801 $\pm$ 0.417  $\chi^2$ /NDF: 61456.6/9

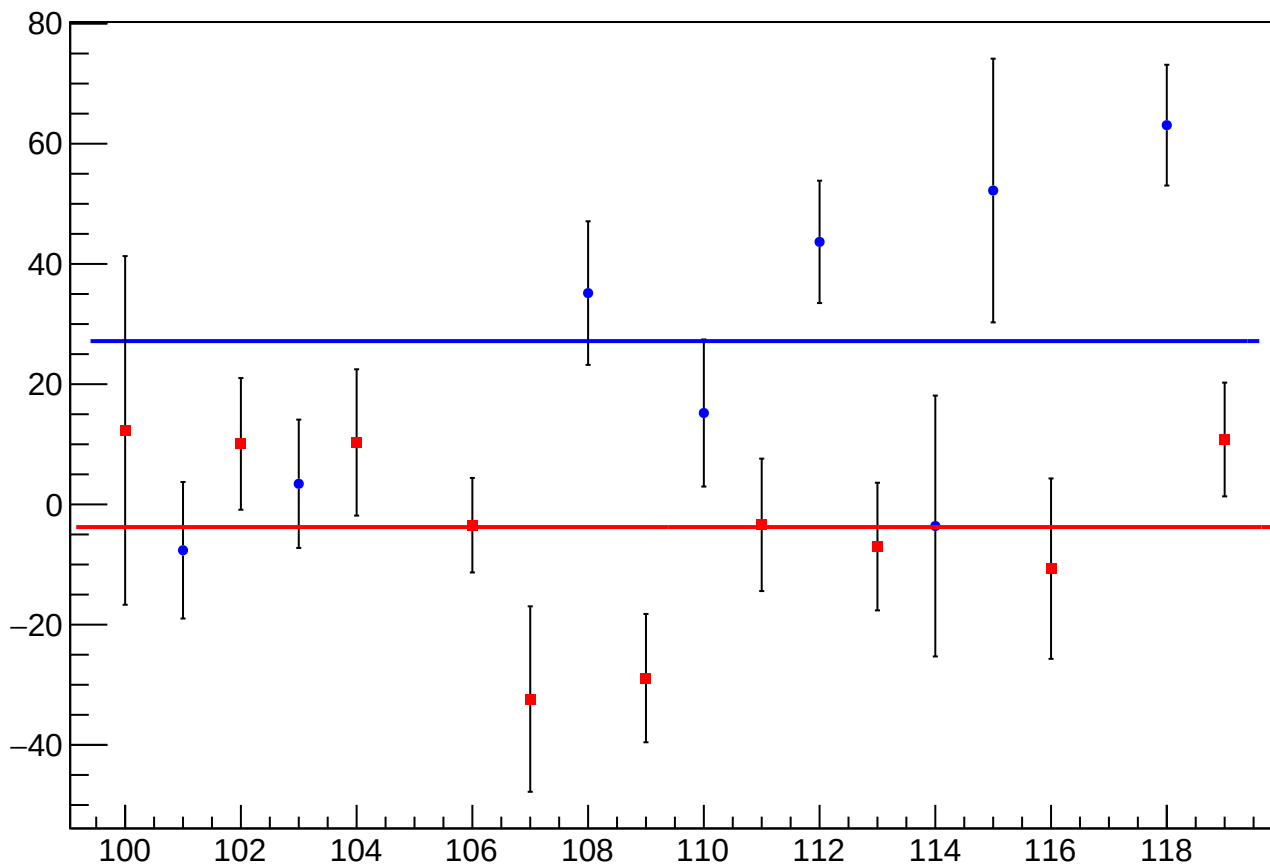
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1207.578 $\pm$ 0.314  $\chi^2$ /NDF: 116868.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l10X\_mean vs Slug



Right In: 27.164 $\pm$ 4.304  $\chi^2$ /NDF: 34.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.768 $\pm$ 3.577  $\chi^2$ /NDF: 14.9/9

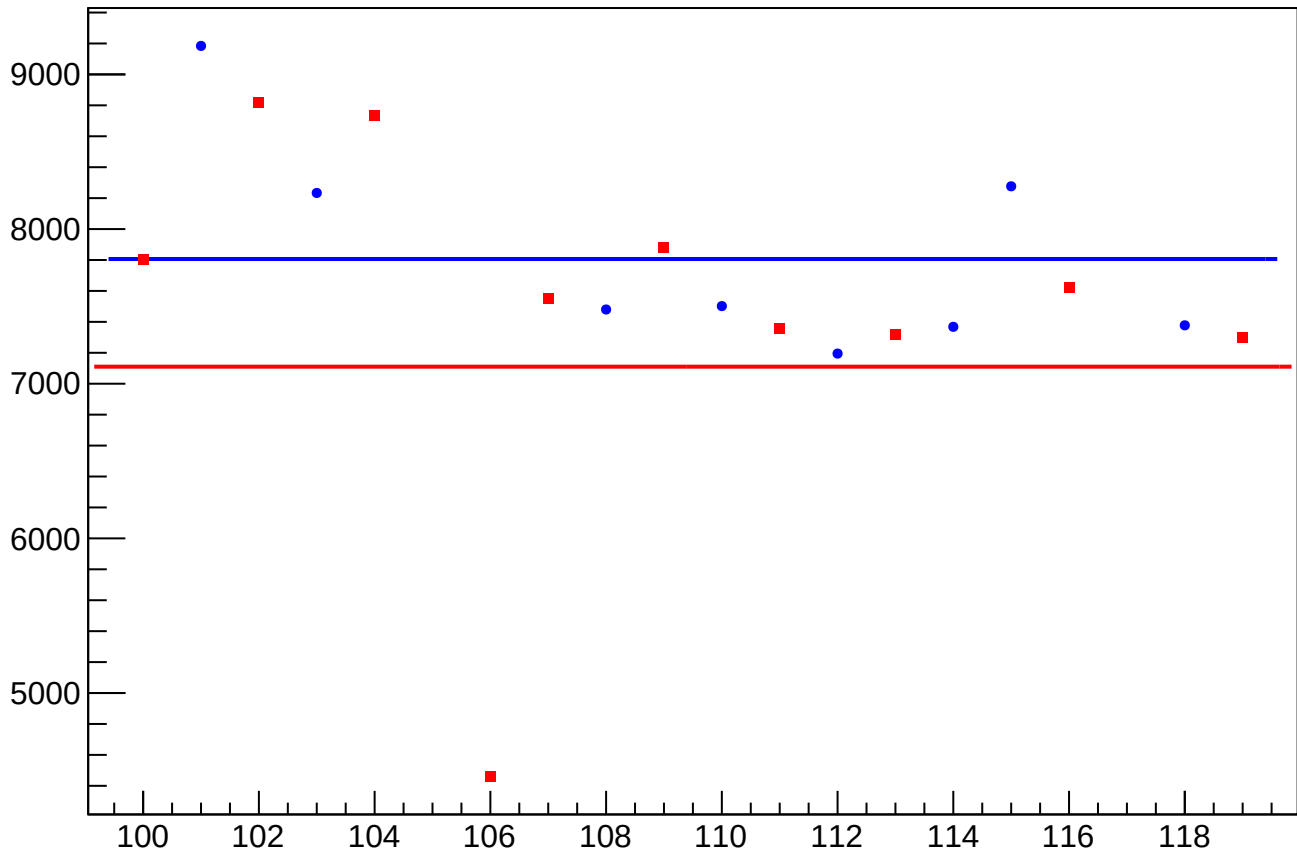
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8.868 $\pm$ 2.751  $\chi^2$ /NDF: 79.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l10X\_rms vs Slug



Right In: 7806.481 $\pm$ 3.043  $\chi^2$ /NDF: 47975.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7110.295 $\pm$ 2.529  $\chi^2$ /NDF: 330228.5/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

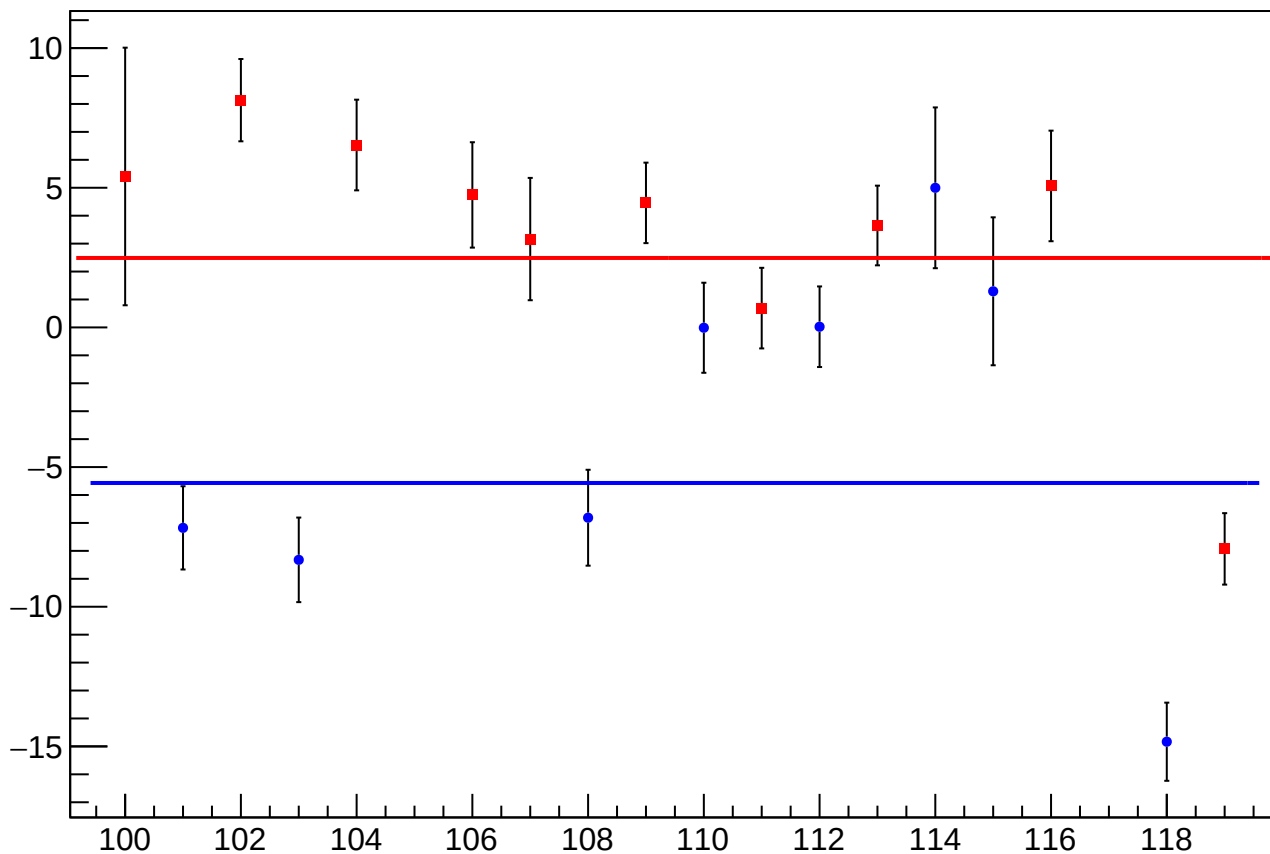
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7394.685 $\pm$ 1.945  $\chi^2$ /NDF: 409160.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm0l10Y\_mean vs Slug



Right In: -5.569+/-0.591  $\chi^2/\text{NDF}$ : 95.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.486+/-0.520  $\chi^2/\text{NDF}$ : 94.9/9

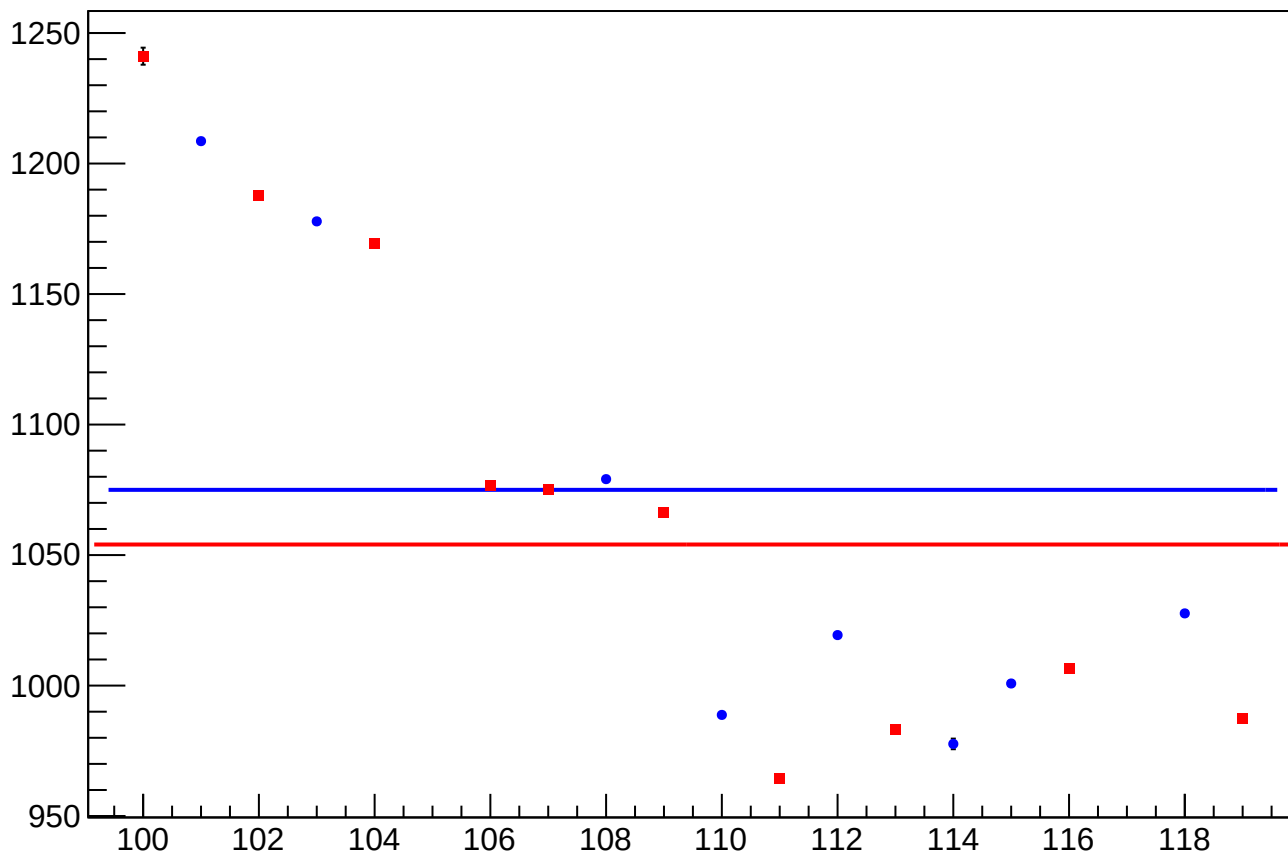
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.031+/-0.390  $\chi^2/\text{NDF}$ : 295.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l10Y\_rms vs Slug



Right In: 1074.987 $\pm$ 0.418  $\chi^2$ /NDF: 40154.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1054.047 $\pm$ 0.368  $\chi^2$ /NDF: 49684.4/9

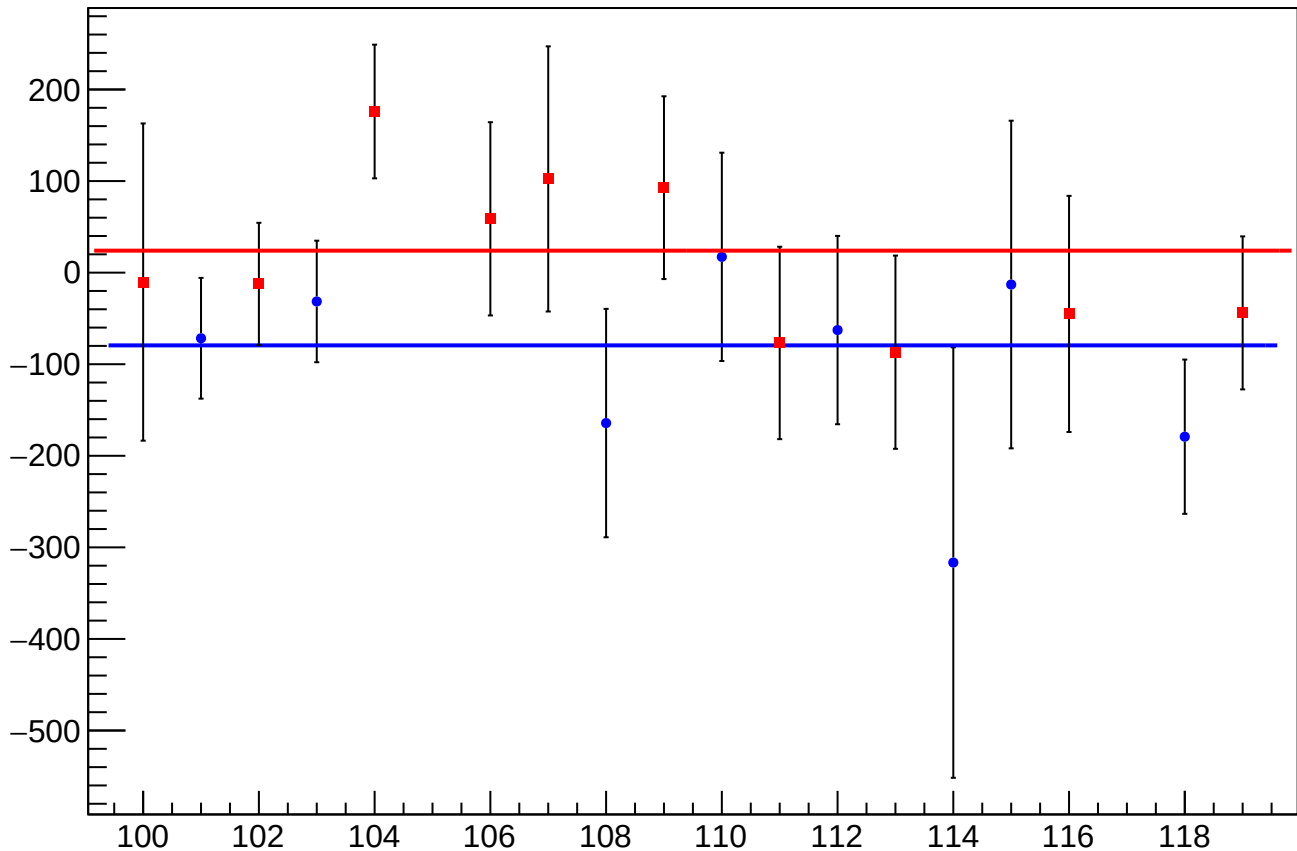
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1063.190 $\pm$ 0.276  $\chi^2$ /NDF: 91254.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0r03X\_mean vs Slug



Right In: -79.431 $\pm$ 33.644  $\chi^2$ /NDF: 4.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 24.012 $\pm$ 30.611  $\chi^2$ /NDF: 8.5/9

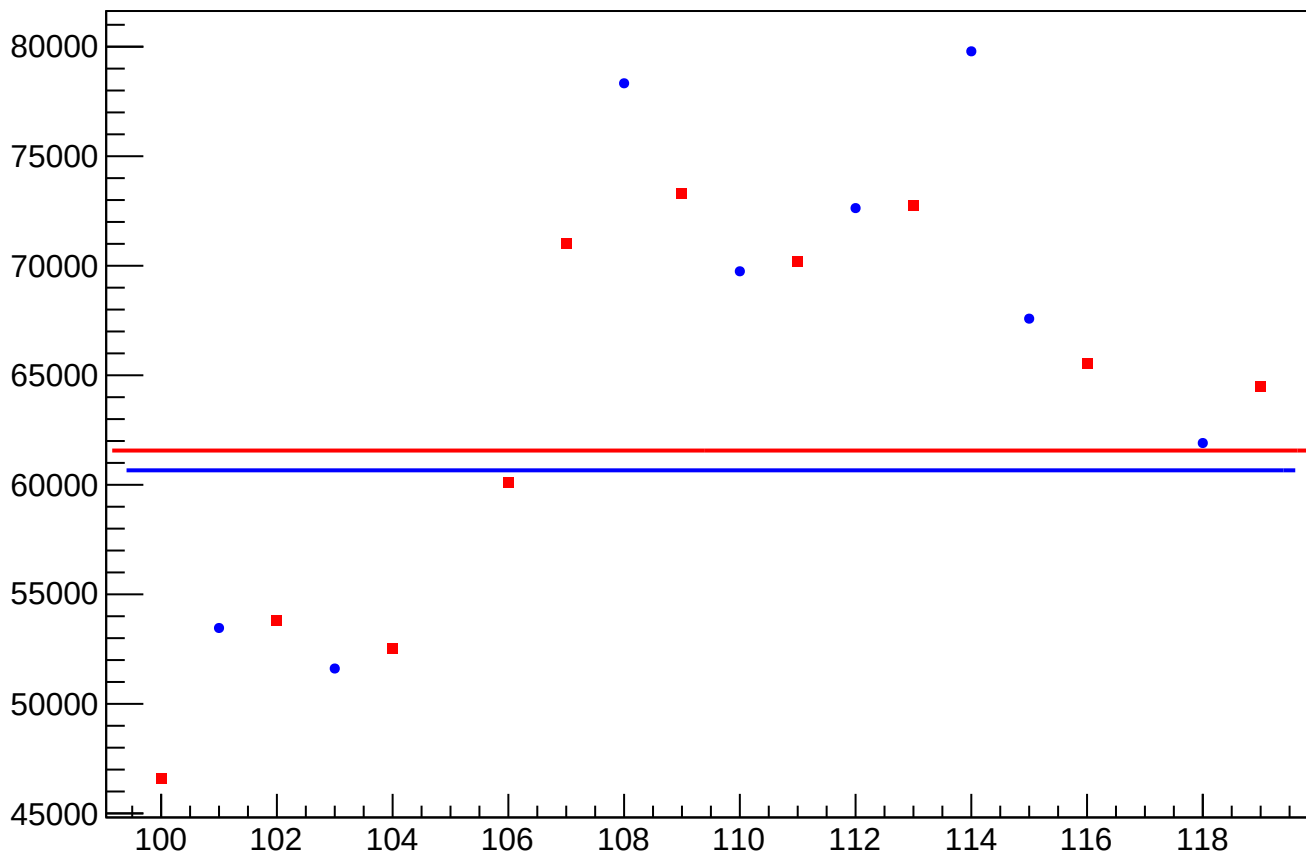
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -22.838 $\pm$ 22.642  $\chi^2$ /NDF: 18.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0r03X\_rms vs Slug



Right In: 60661.114+/-23.790  $\chi^2/\text{NDF}$ : 157690.4/7

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

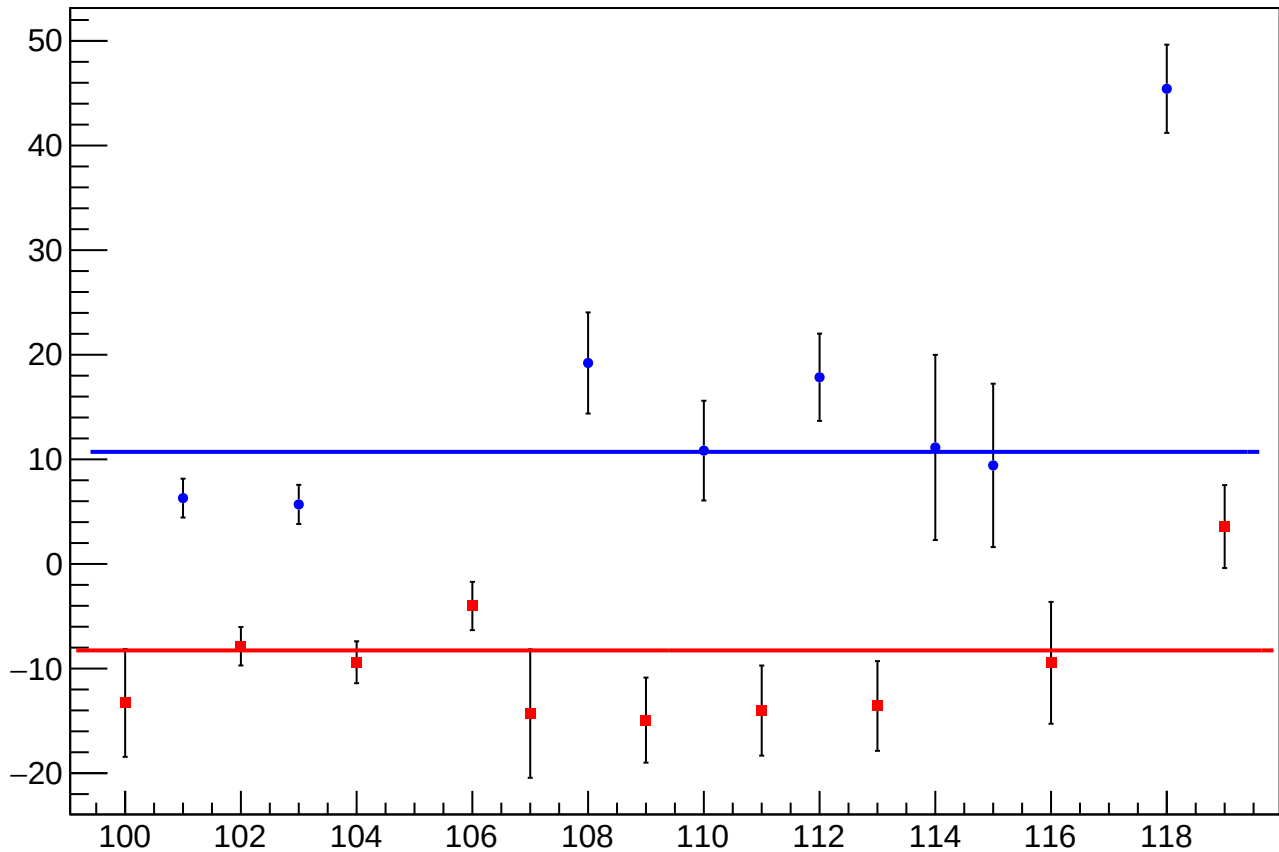
Right Out: 61564.490+/-21.646  $\chi^2/\text{NDF}$ : 149759.8/9

All: 61155.346+/-16.010  $\chi^2/\text{NDF}$ : 308239.1/17

- 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\_bpm0r03Y\_mean vs Slug



Right In: 10.716 $\pm$ 1.114  $\chi^2$ /NDF: 86.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.264 $\pm$ 0.971  $\chi^2$ /NDF: 20.6/9

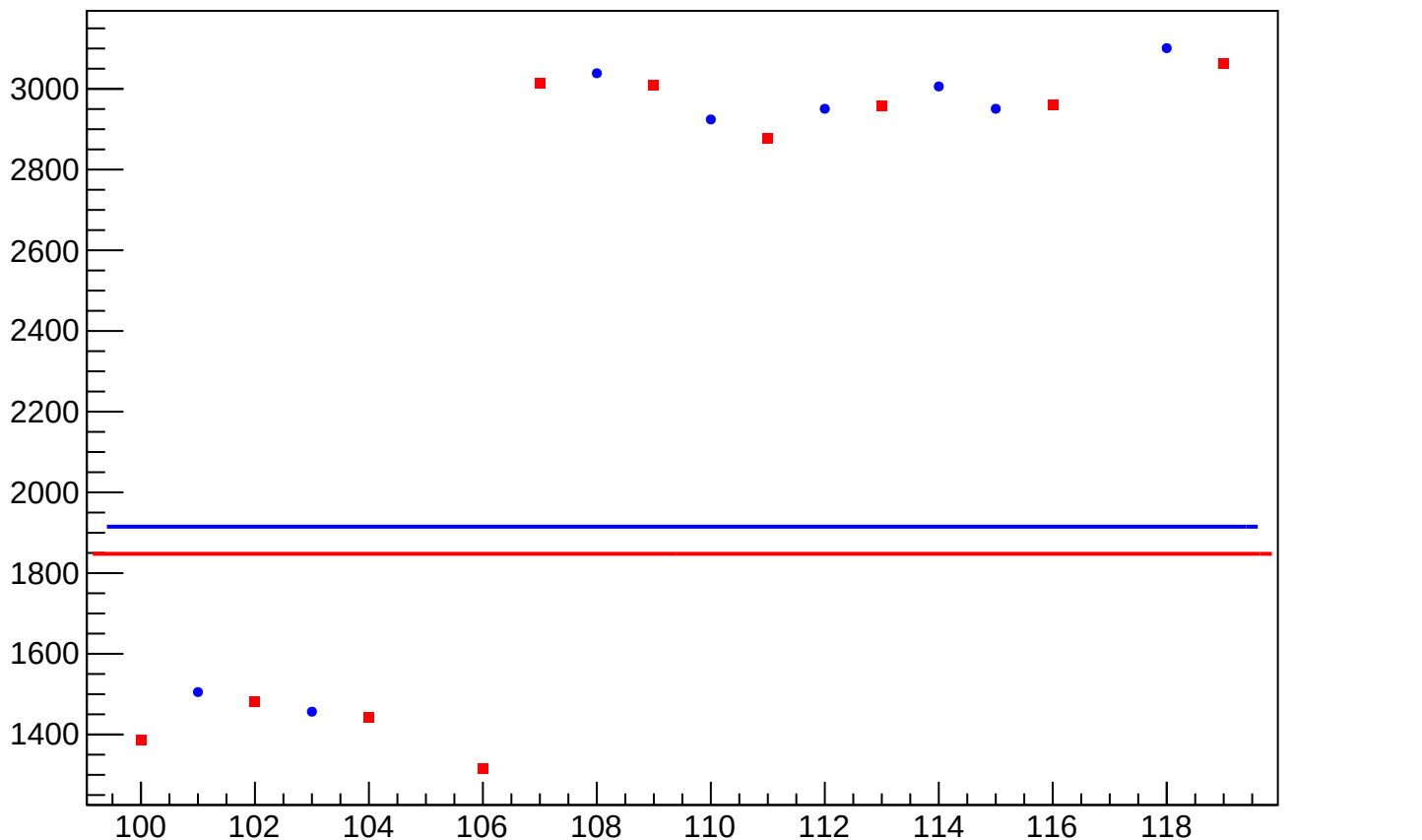
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.070 $\pm$ 0.732  $\chi^2$ /NDF: 272.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0r03Y\_rms vs Slug



Right In: 1914.981+/-0.788  $\chi^2/\text{NDF}$ : 762270.7/7

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

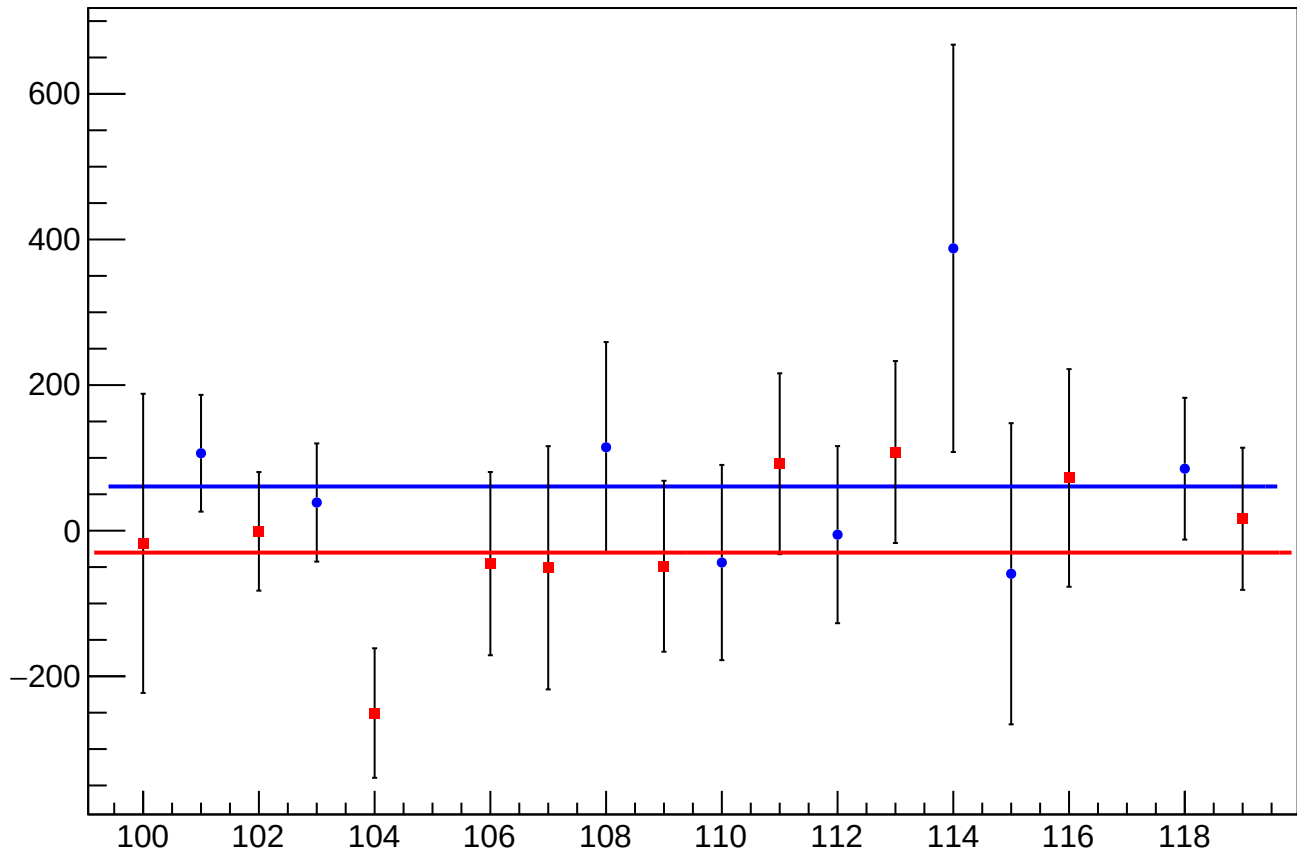
Right Out: 1847.759+/-0.687  $\chi^2/\text{NDF}$ : 1028661.4/9

All: 1876.781+/-0.518  $\chi^2/\text{NDF}$ : 1795067.1/17

- 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\_bpm0r05X\_mean vs Slug



Right In: 60.717 $\pm$ 40.166  $\chi^2$ /NDF: 3.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -30.115 $\pm$ 36.496  $\chi^2$ /NDF: 9.2/9

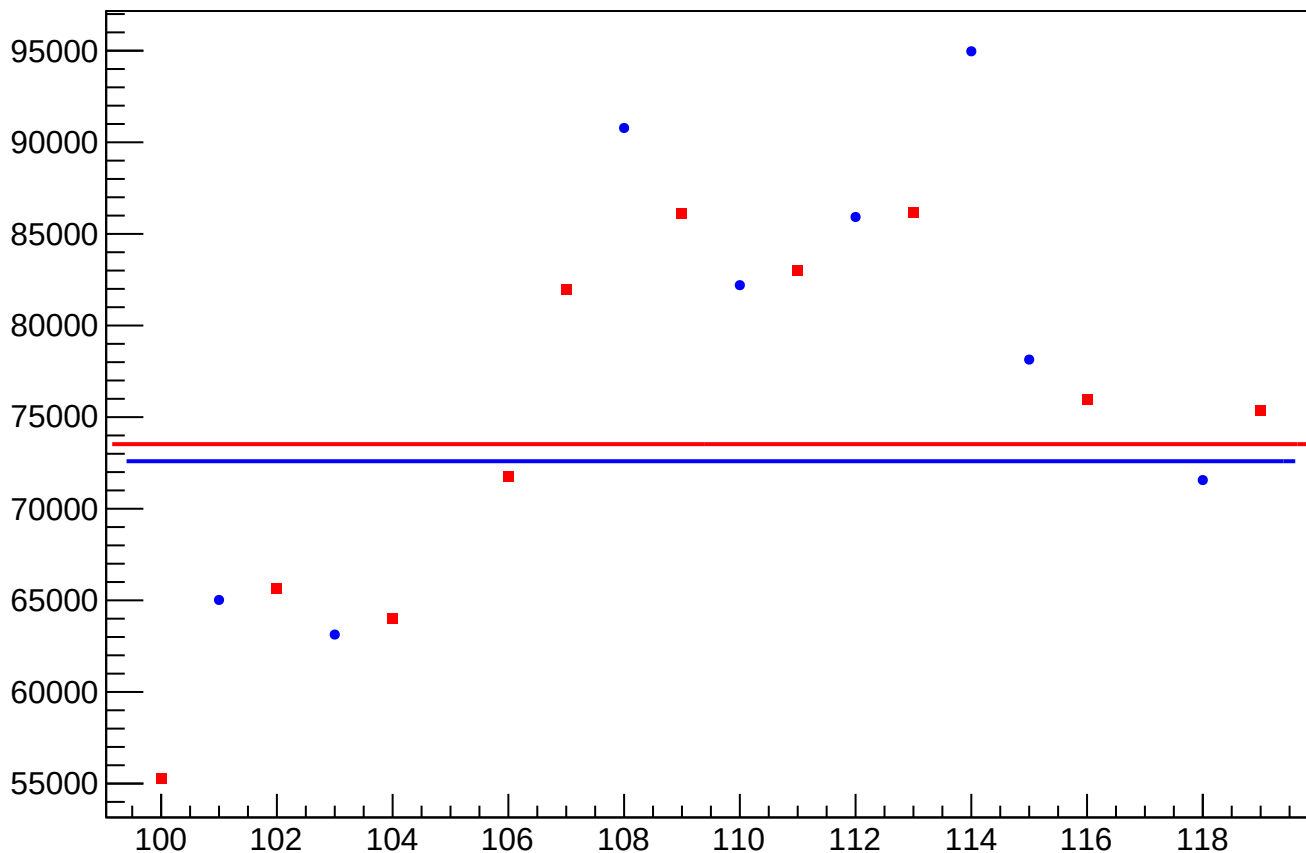
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.963 $\pm$ 27.011  $\chi^2$ /NDF: 15.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0r05X\_rms vs Slug



Right In: 72593.771 $\pm$ 28.401  $\chi^2$ /NDF: 125386.7/7

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: 73525.419 $\pm$ 25.807  $\chi^2$ /NDF: 119341.8/9

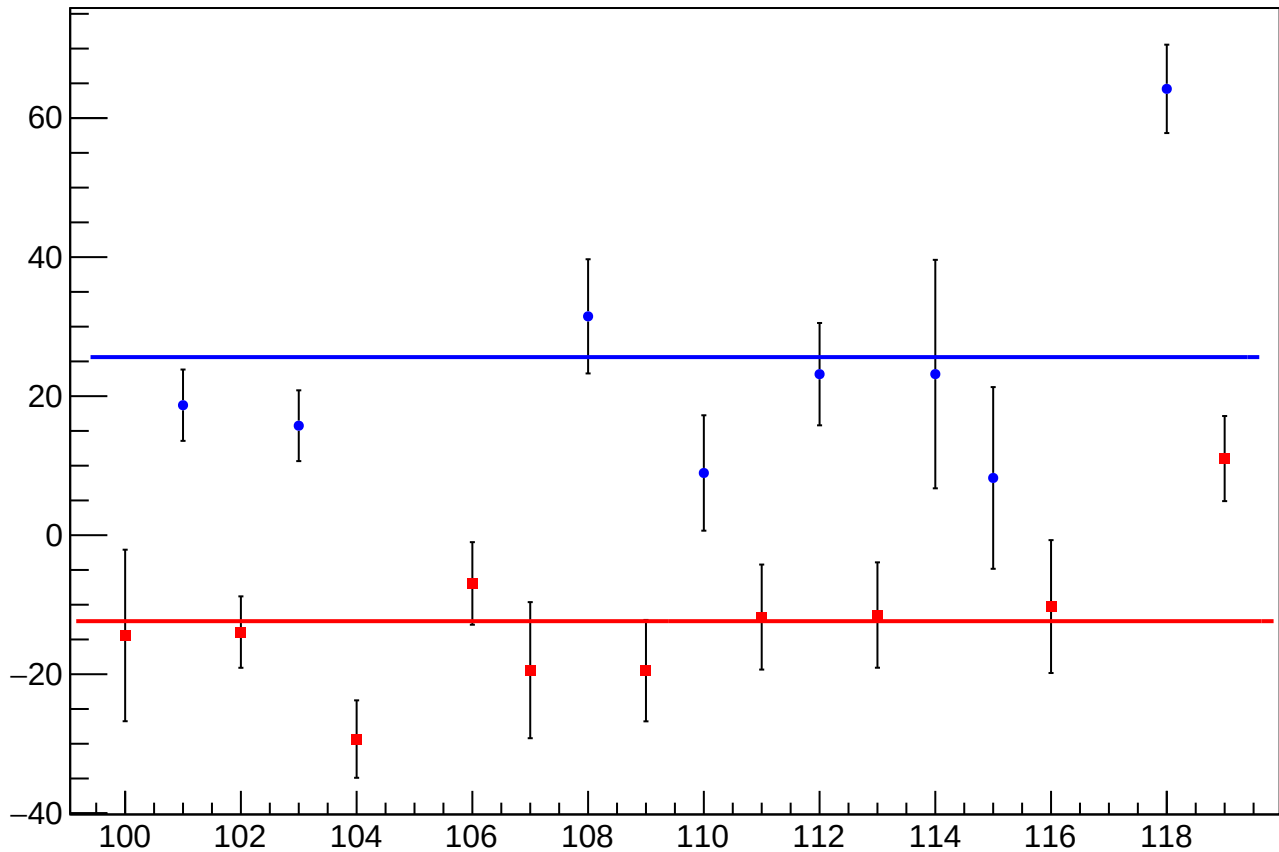
All: 73104.086 $\pm$ 19.100  $\chi^2$ /NDF: 245317.8/19

- 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\_bpm0r05Y\_mean vs Slug



Right In: 25.619 $\pm$ 2.511  $\chi^2$ /NDF: 48.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -12.368 $\pm$ 2.199  $\chi^2$ /NDF: 26.4/9

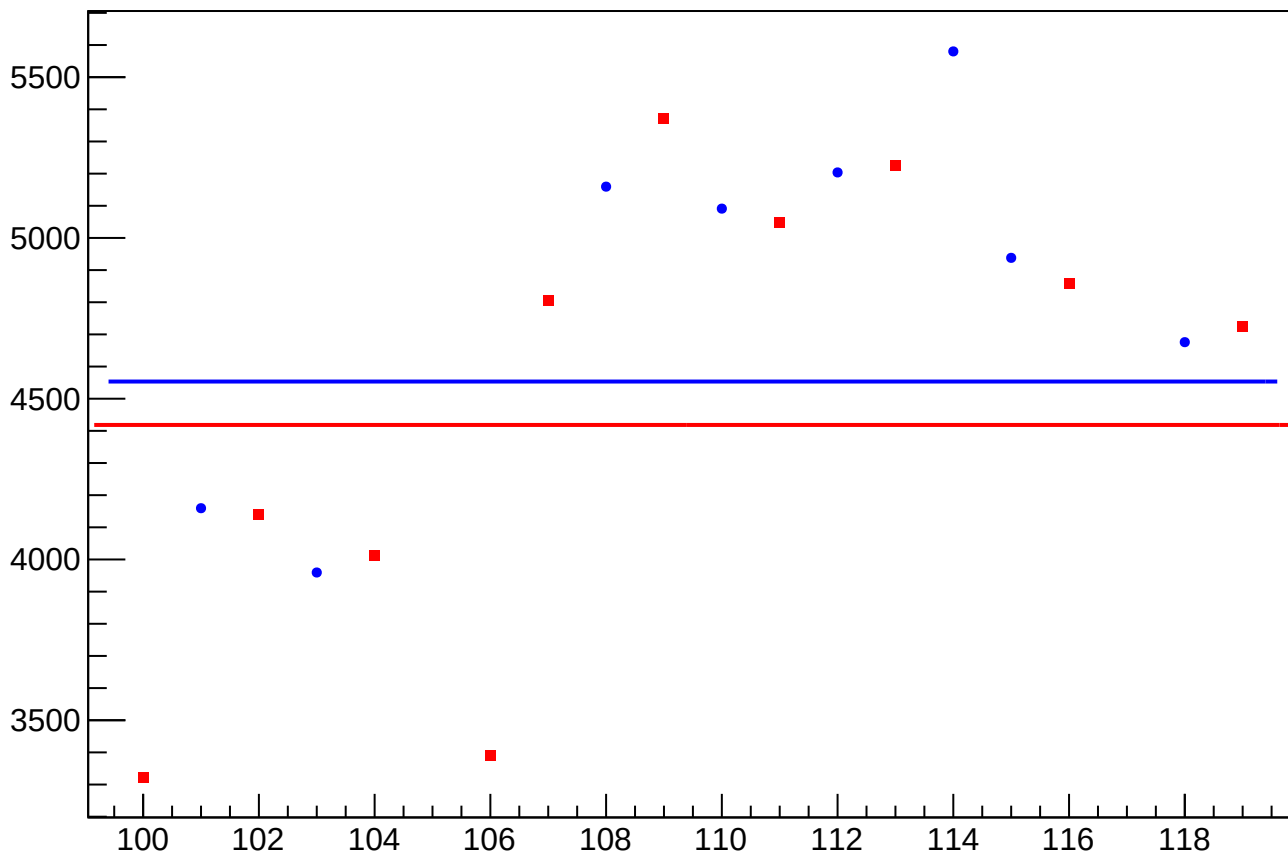
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.121 $\pm$ 1.654  $\chi^2$ /NDF: 204.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0r05Y\_rms vs Slug



Right In: 4553.407 $\pm$ 1.775  $\chi^2$ /NDF: 84182.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4418.393 $\pm$ 1.555  $\chi^2$ /NDF: 175691.7/9

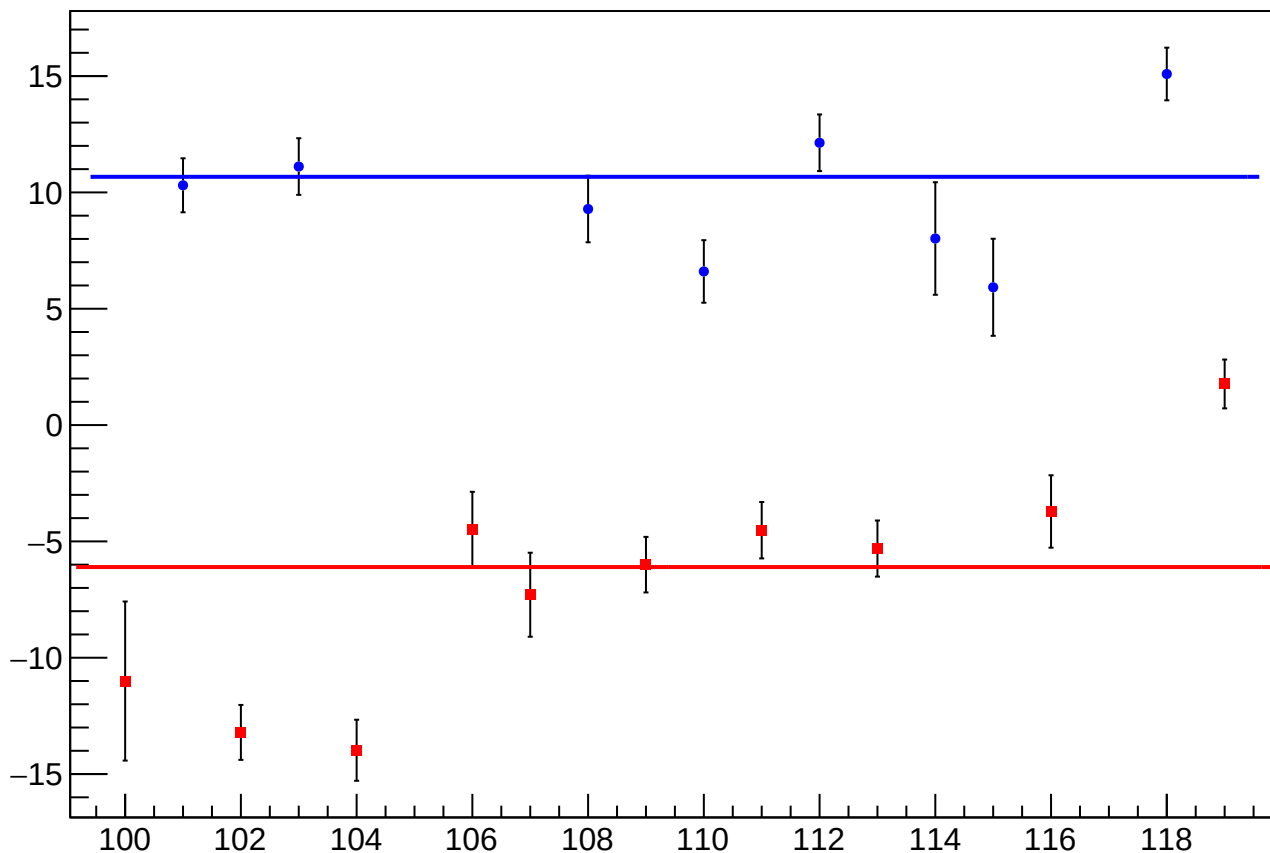
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4477.000 $\pm$ 1.170  $\chi^2$ /NDF: 263147.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm2i01X\_mean vs Slug



Right In:  $10.670 \pm 0.481$   $\chi^2/\text{NDF}$ : 33.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-6.102 \pm 0.428$   $\chi^2/\text{NDF}$ : 136.5/9

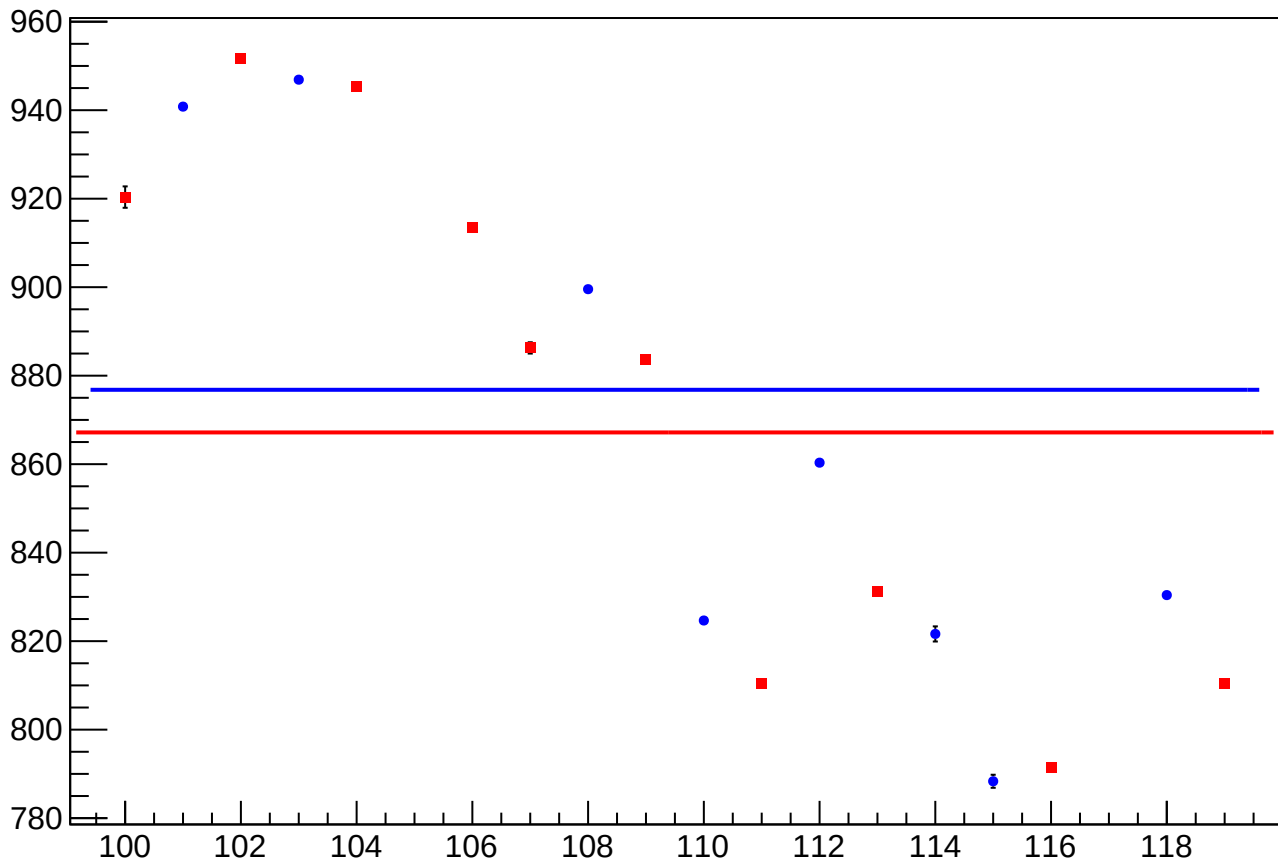
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $1.295 \pm 0.320$   $\chi^2/\text{NDF}$ : 848.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm2i01X\_rms vs Slug



Right In: 876.808 $\pm$ 0.340  $\chi^2$ /NDF: 24602.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 867.172 $\pm$ 0.302  $\chi^2$ /NDF: 36843.8/9

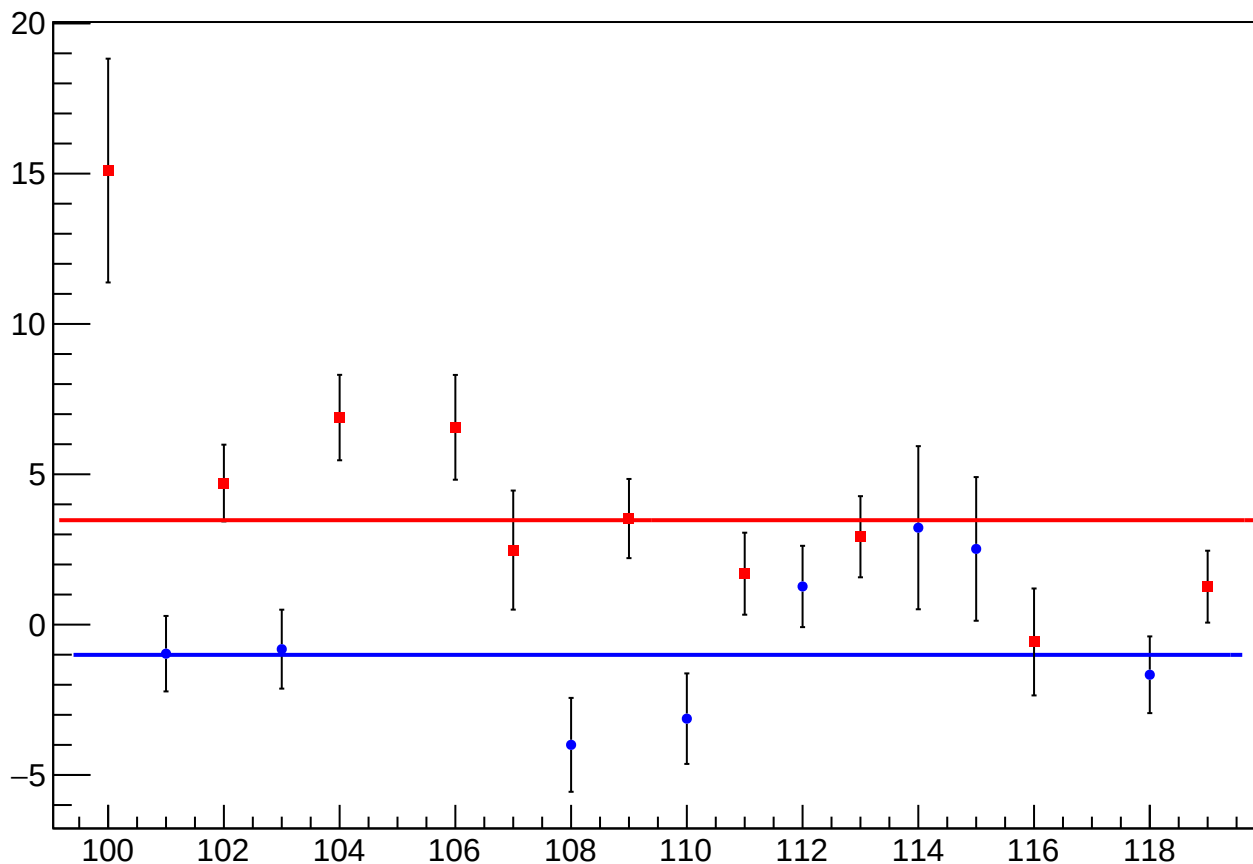
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 871.422 $\pm$ 0.226  $\chi^2$ /NDF: 61894.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm2i01Y\_mean vs Slug



Right In: -1.006 $\pm$ 0.532  $\chi^2$ /NDF: 13.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.473 $\pm$ 0.474  $\chi^2$ /NDF: 30.3/9

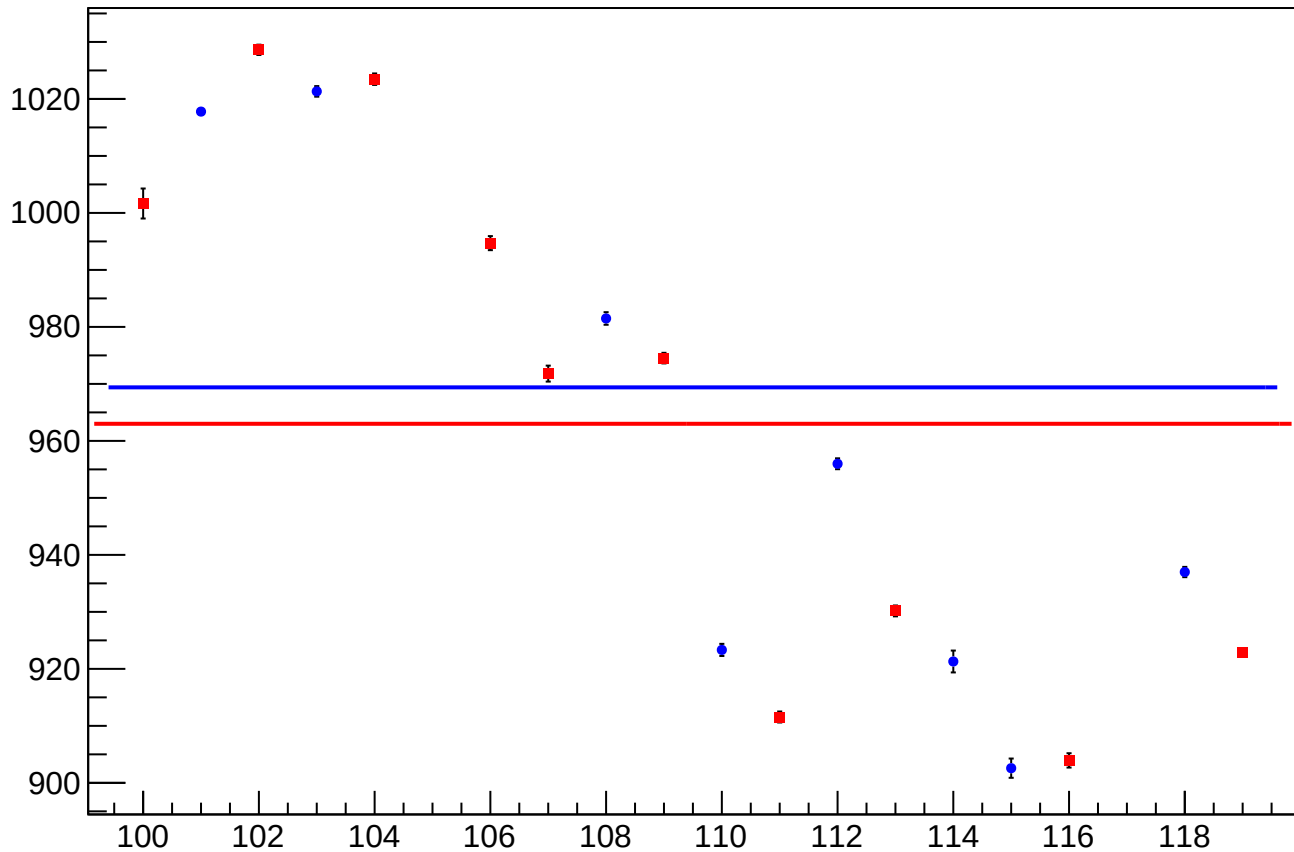
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.488 $\pm$ 0.354  $\chi^2$ /NDF: 83.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm2i01Y\_rms vs Slug



Right In: 969.393 $\pm$ 0.376  $\chi^2$ /NDF: 11775.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 963.001 $\pm$ 0.335  $\chi^2$ /NDF: 18462.5/9

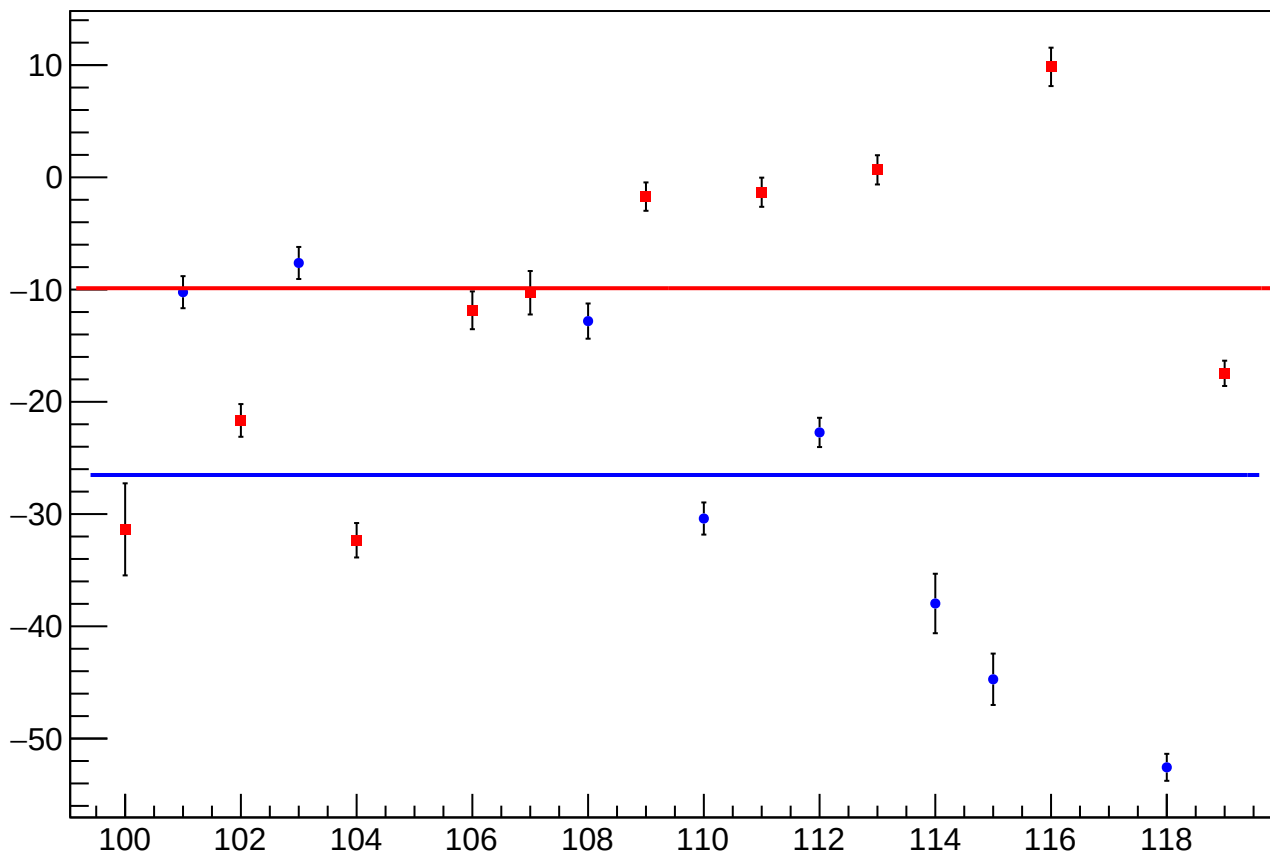
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 965.834 $\pm$ 0.250  $\chi^2$ /NDF: 30399.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm2i02X\_mean vs Slug



Right In:  $-26.518 \pm 0.535$   $\chi^2/\text{NDF}$ : 949.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-9.878 \pm 0.471$   $\chi^2/\text{NDF}$ : 637.1/9

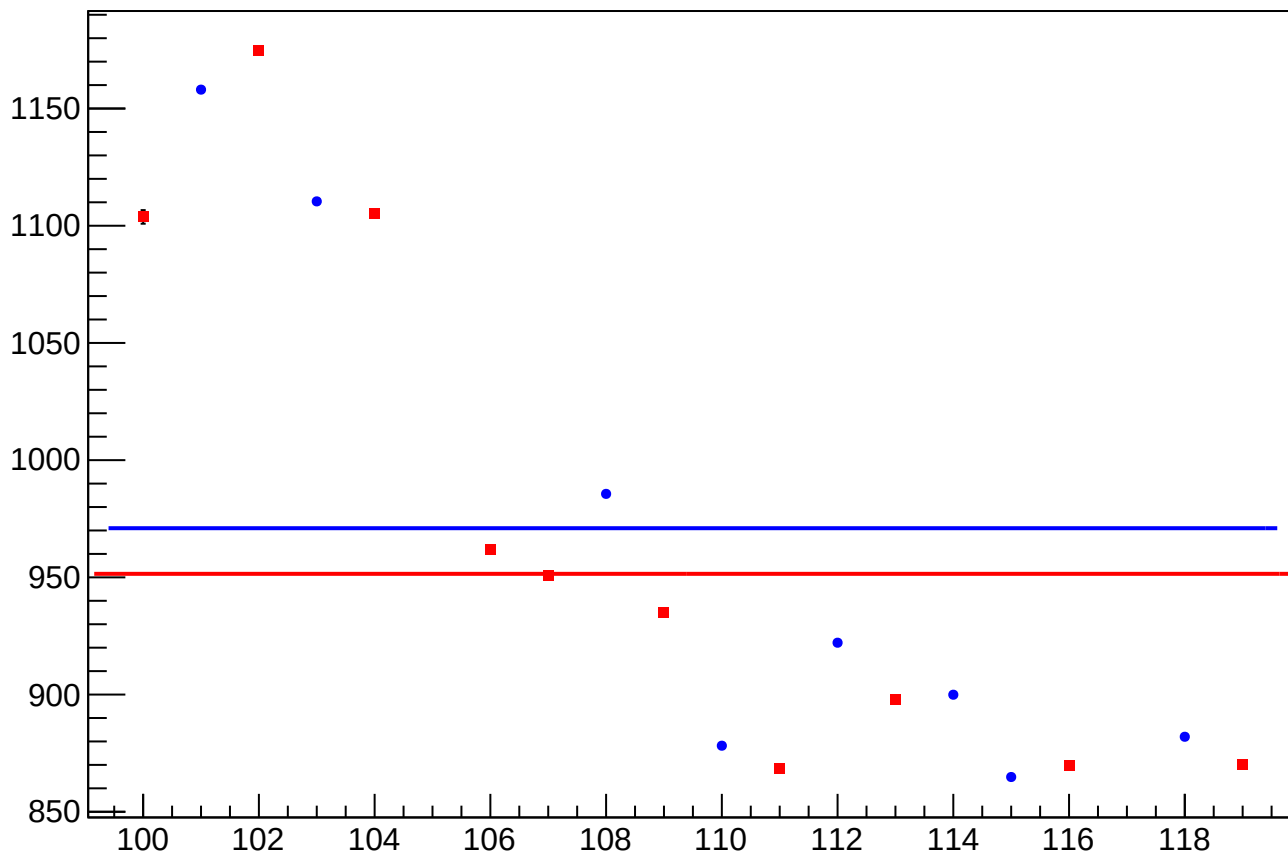
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-17.137 \pm 0.354$   $\chi^2/\text{NDF}$ : 2131.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm2i02X\_rms vs Slug



Right In: 970.969+/-0.378  $\chi^2/\text{NDF}$ : 81486.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 951.503+/-0.333  $\chi^2/\text{NDF}$ : 96713.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

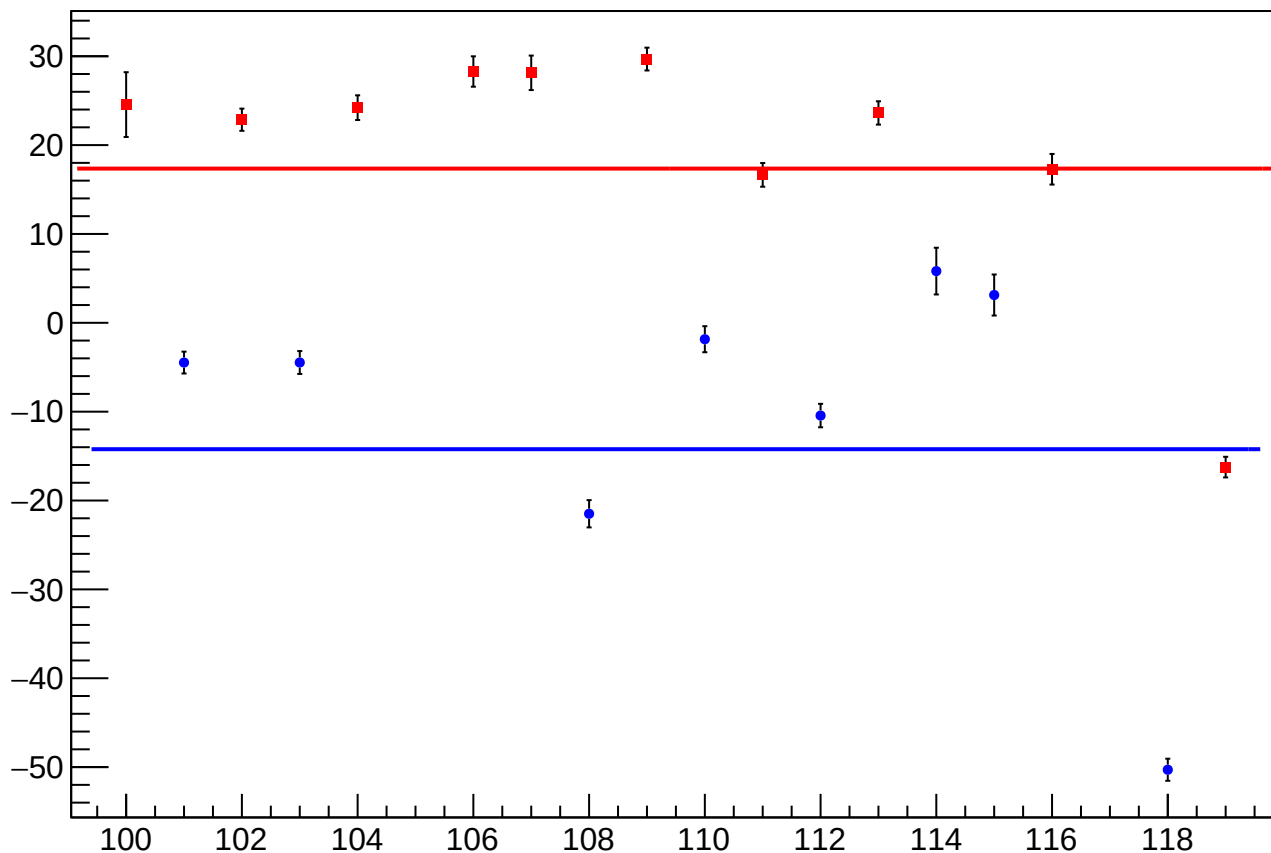
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 959.994+/-0.250  $\chi^2/\text{NDF}$ : 179691.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm2i02Y\_mean vs Slug



Right In:  $-14.224 \pm 0.519$   $\chi^2/\text{NDF}$ : 1178.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $17.356 \pm 0.463$   $\chi^2/\text{NDF}$ : 1071.9/9

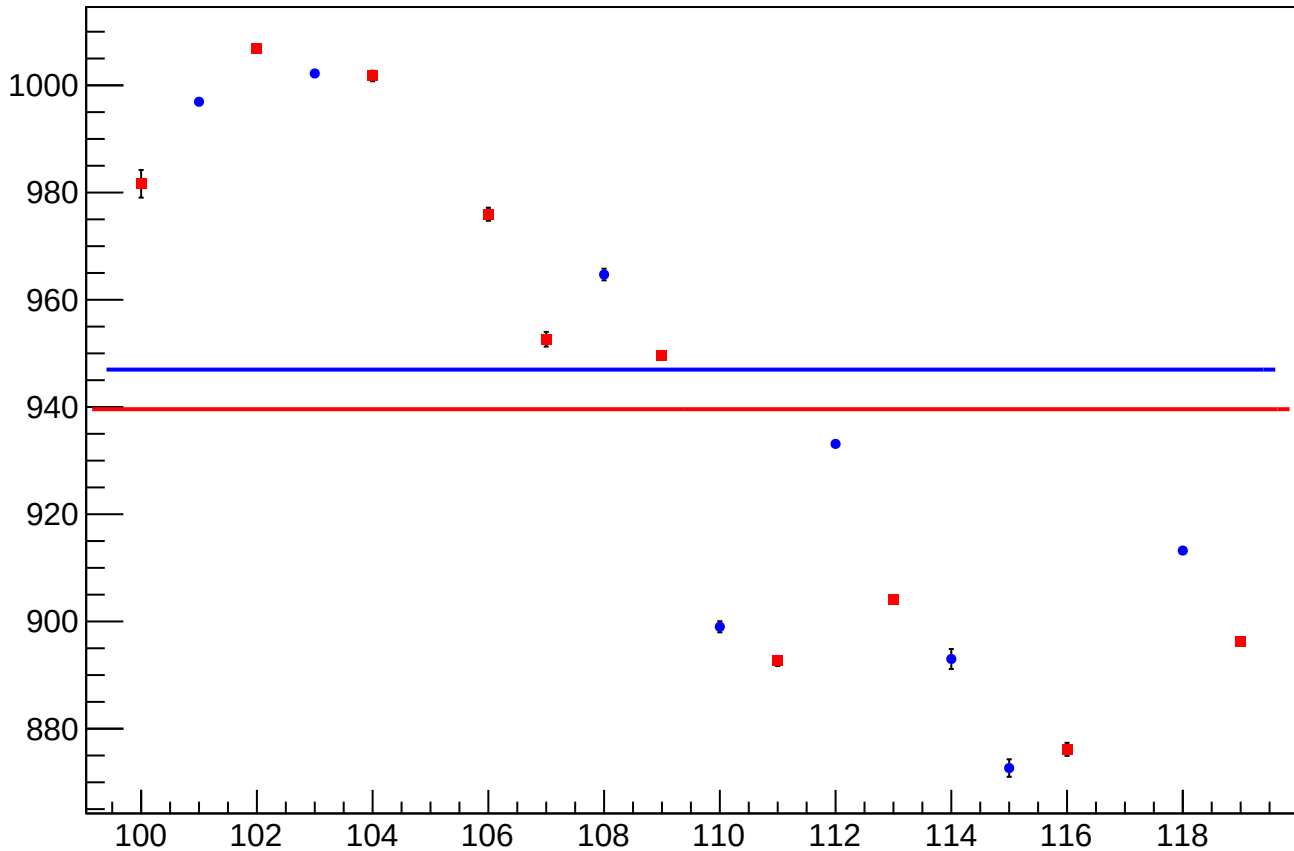
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $3.379 \pm 0.345$   $\chi^2/\text{NDF}$ : 4312.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm2i02Y\_rms vs Slug



Right In: 946.979 $\pm$ 0.367  $\chi^2$ /NDF: 14000.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 939.593 $\pm$ 0.327  $\chi^2$ /NDF: 20611.6/9

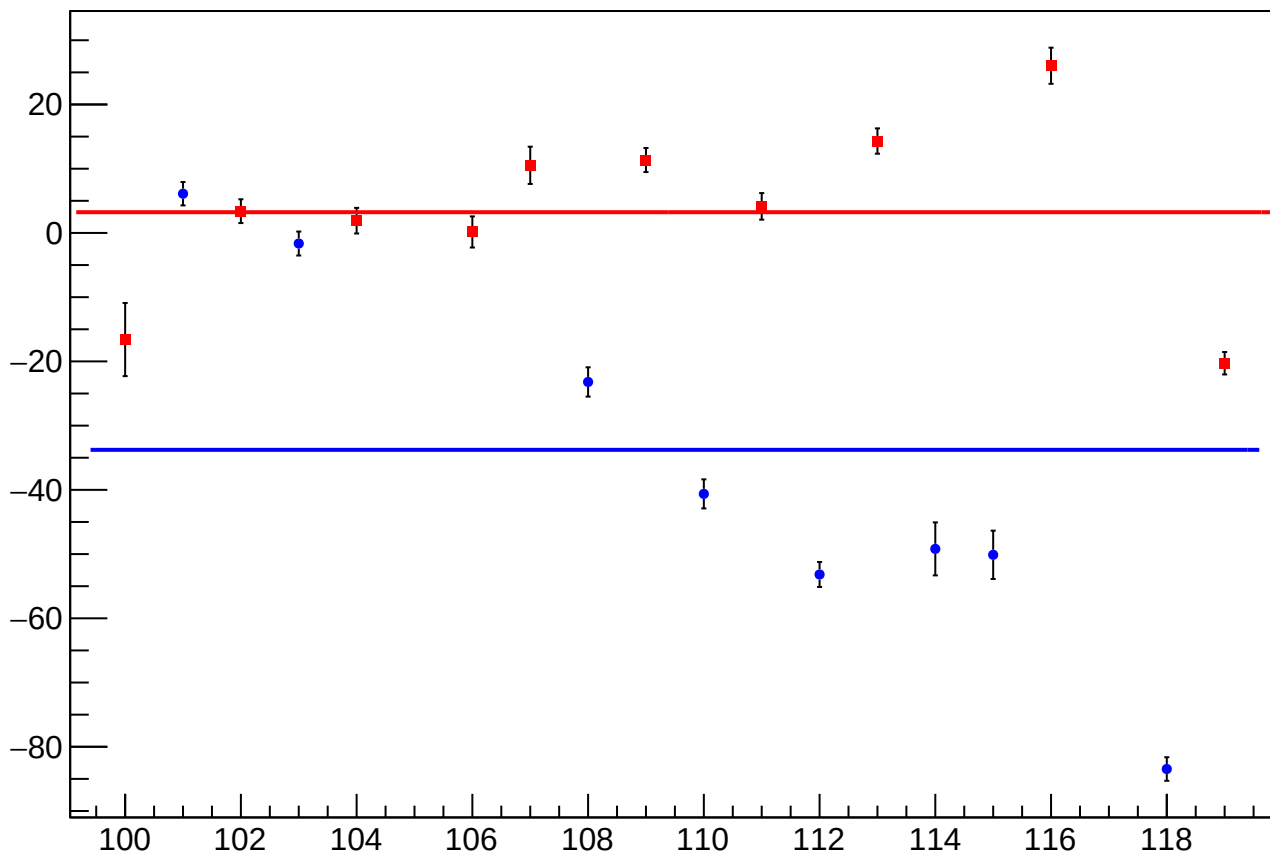
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 942.862 $\pm$ 0.244  $\chi^2$ /NDF: 34837.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i02X\_mean vs Slug



Right In: -33.769 $\pm$ 0.774  $\chi^2$ /NDF: 1674.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.228 $\pm$ 0.691  $\chi^2$ /NDF: 318.0/9

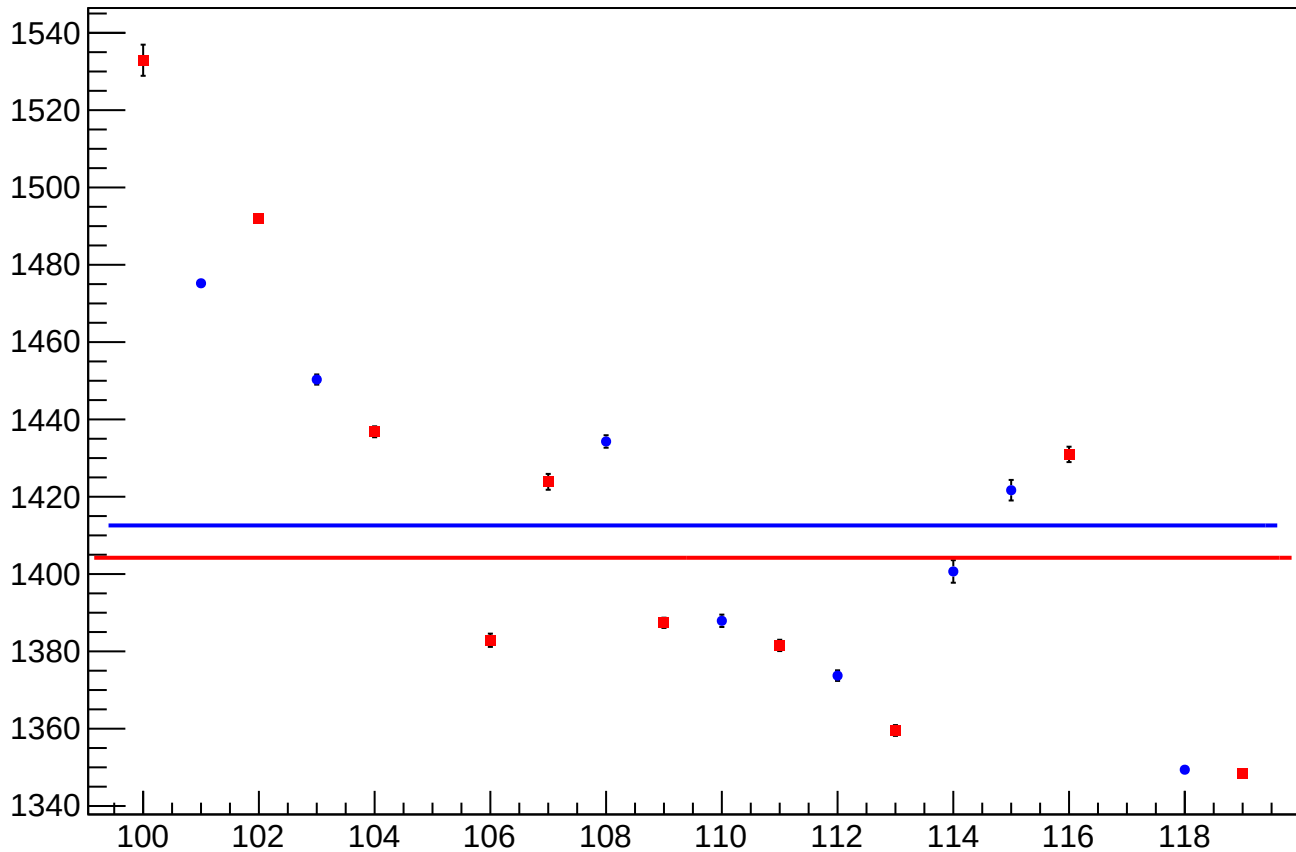
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -13.185 $\pm$ 0.516  $\chi^2$ /NDF: 3263.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i02X\_rms vs Slug



Right In: 1412.574+/-0.547  $\chi^2/\text{NDF}$ : 6812.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1404.214+/-0.489  $\chi^2/\text{NDF}$ : 9936.3/9

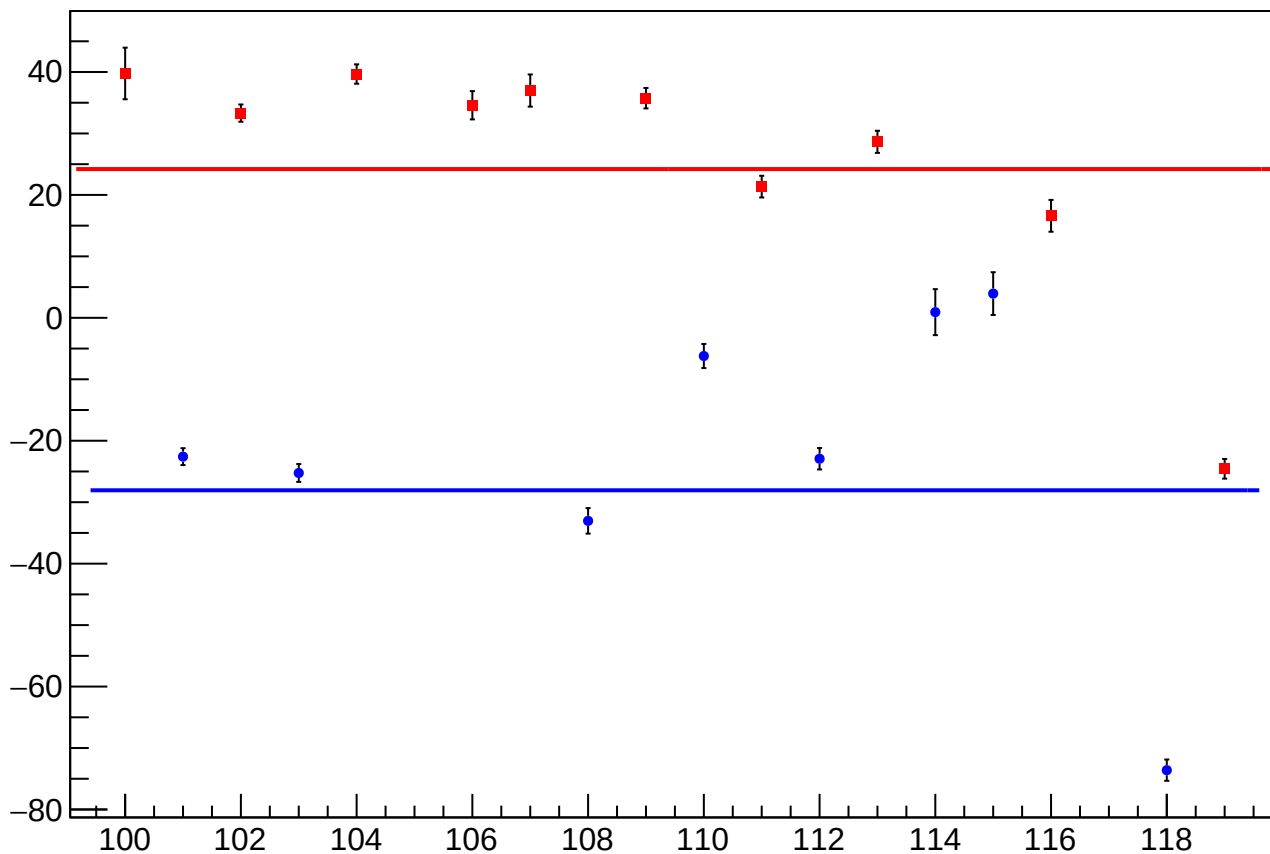
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1407.922+/-0.365  $\chi^2/\text{NDF}$ : 16878.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i02Y\_mean vs Slug



Right In:  $-28.062 \pm 0.657$   $\chi^2/\text{NDF}$ : 994.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $24.209 \pm 0.594$   $\chi^2/\text{NDF}$ : 1189.6/9

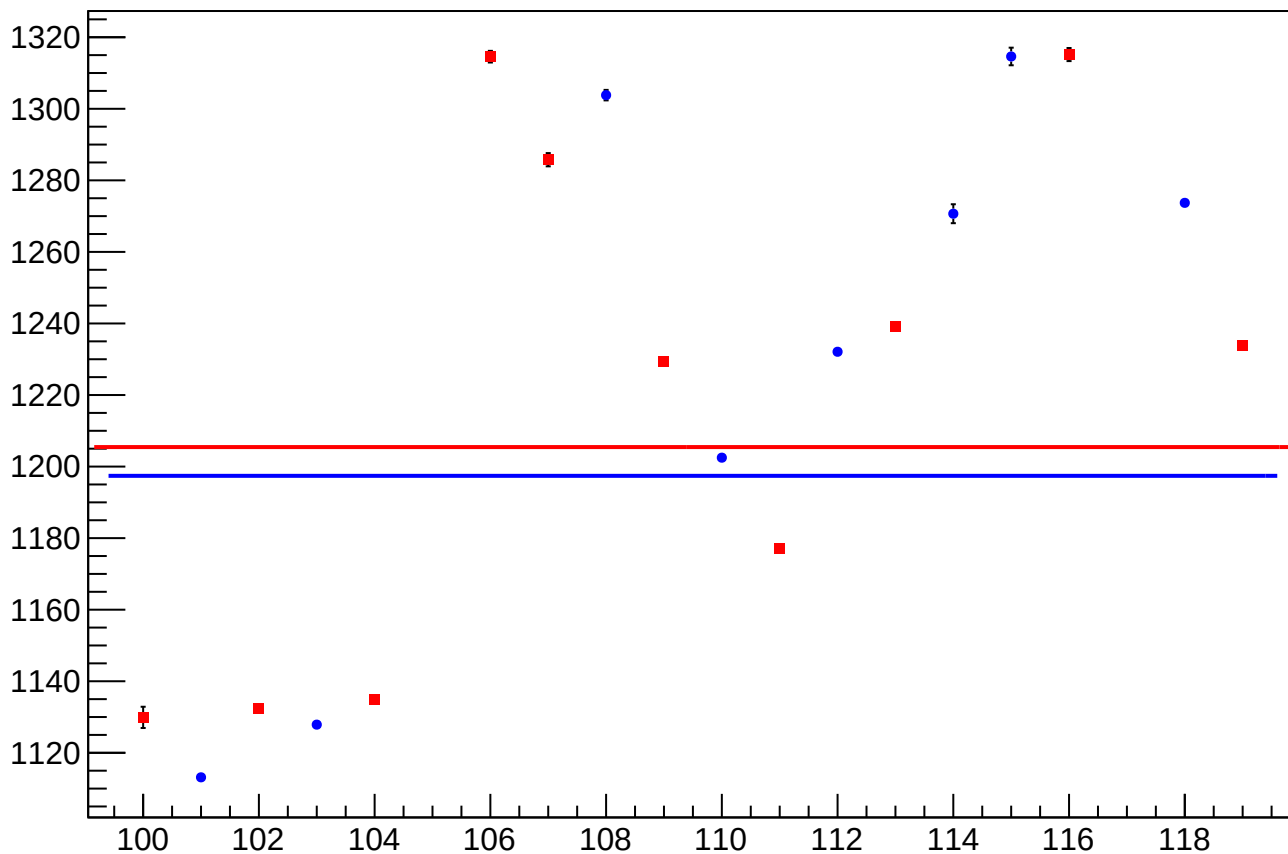
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.701 \pm 0.441$   $\chi^2/\text{NDF}$ : 5665.2/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i02Y\_rms vs Slug



Right In: 1197.413 $\pm$ 0.465  $\chi^2$ /NDF: 25120.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1205.452 $\pm$ 0.420  $\chi^2$ /NDF: 22333.2/9

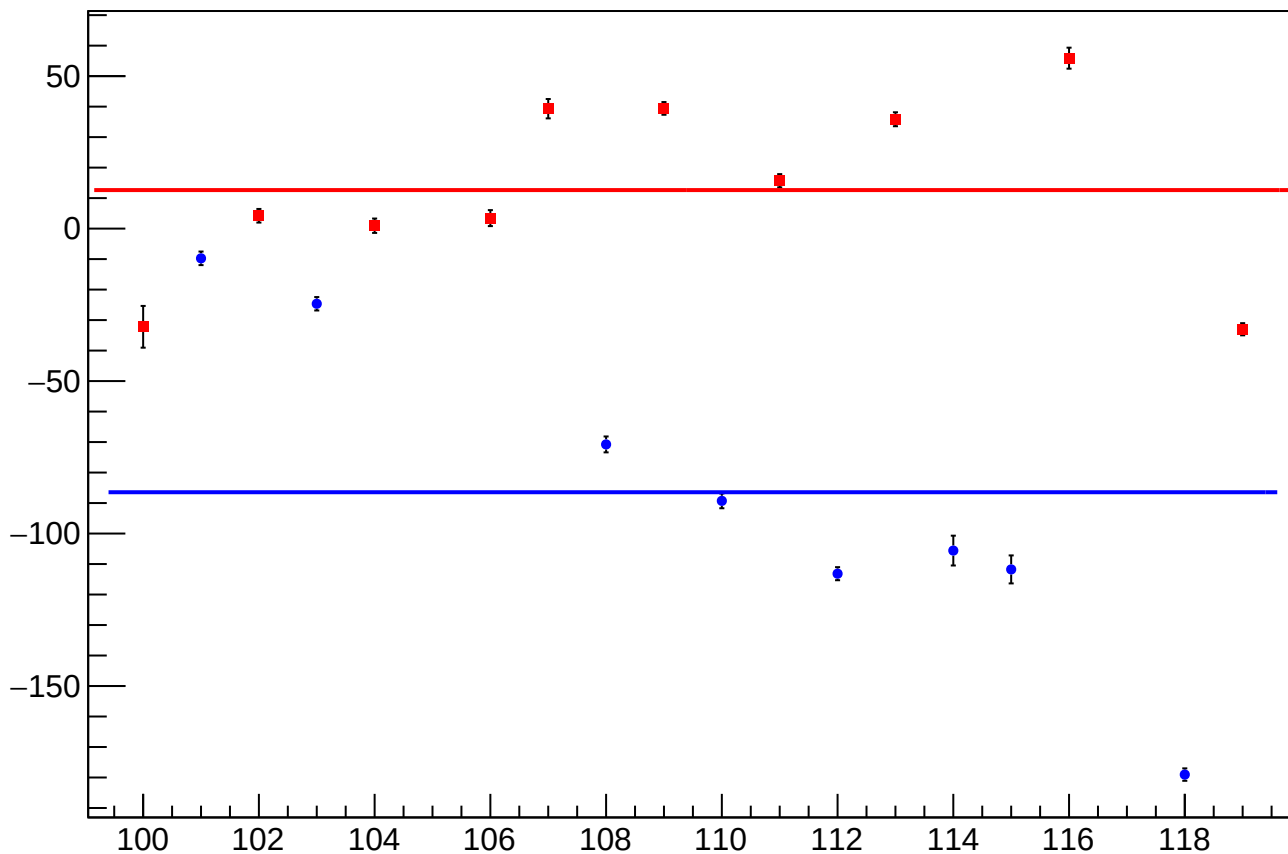
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1201.837 $\pm$ 0.312  $\chi^2$ /NDF: 47618.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i02aX\_mean vs Slug



Right In: -86.453 $\pm$ 0.886  $\chi^2$ /NDF: 4281.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 12.631 $\pm$ 0.787  $\chi^2$ /NDF: 1116.2/9

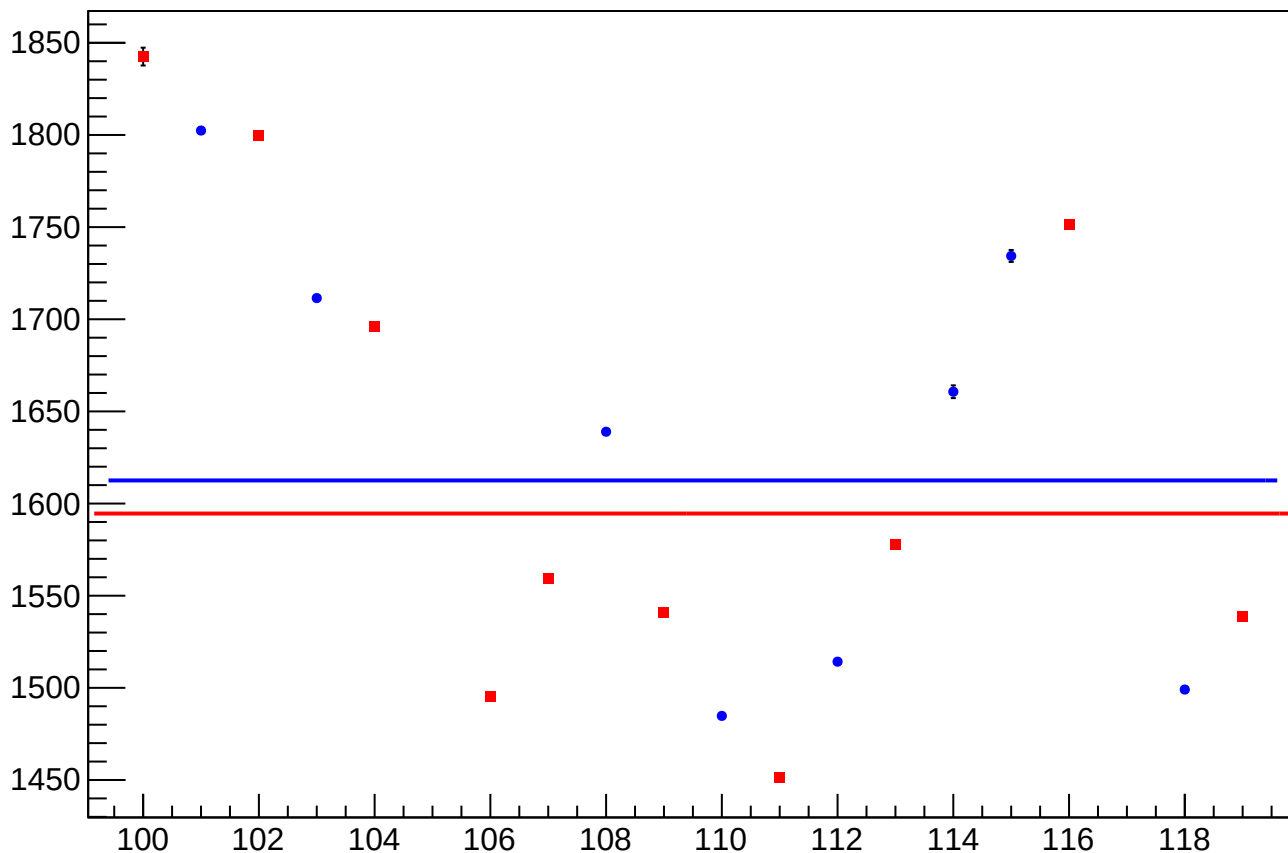
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -31.050 $\pm$ 0.588  $\chi^2$ /NDF: 12394.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i02aX\_rms vs Slug



Right In: 1612.539+/-0.626  $\chi^2/\text{NDF}$ : 36428.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1594.578+/-0.556  $\chi^2/\text{NDF}$ : 42257.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

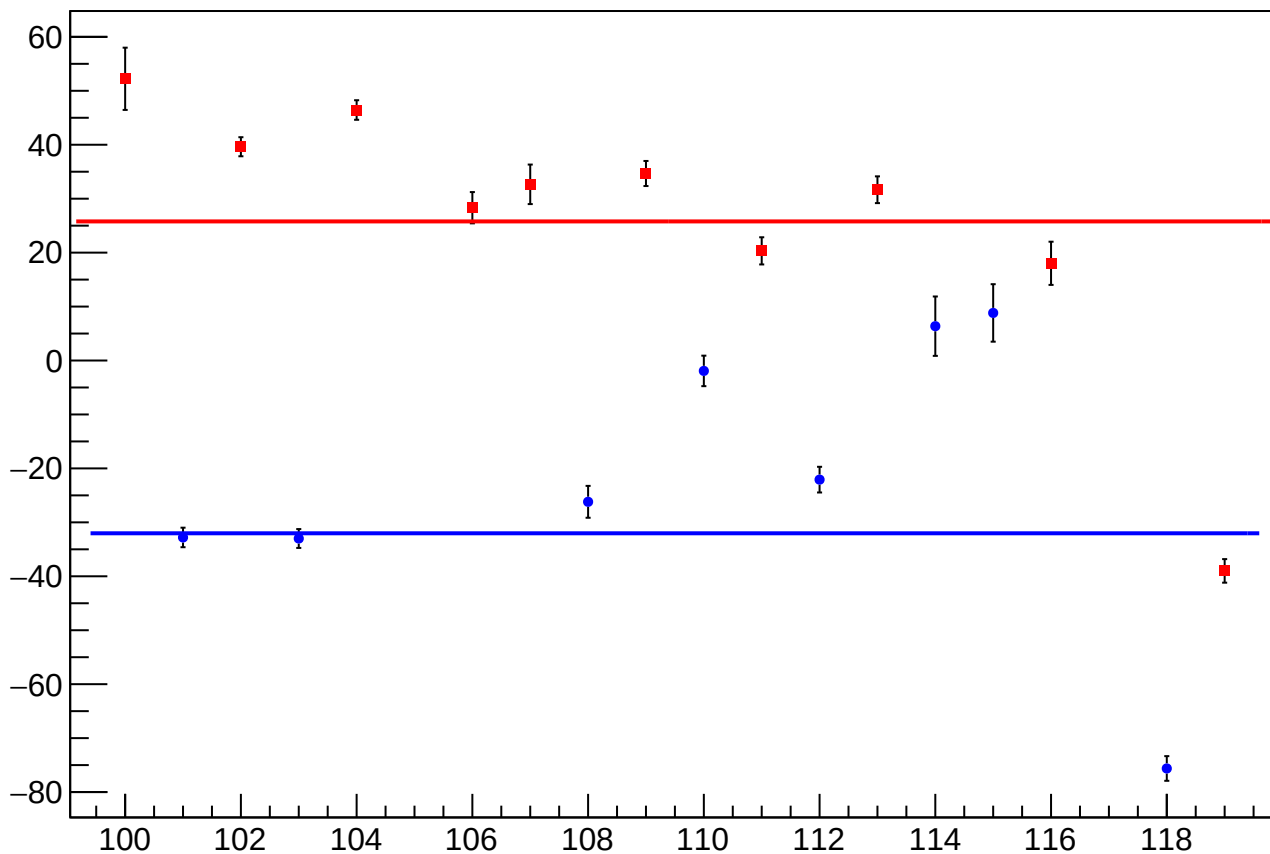
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1602.496+/-0.416  $\chi^2/\text{NDF}$ : 79145.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm0i02aY\_mean vs Slug



Right In:  $-32.028 \pm 0.874$   $\chi^2/\text{NDF}$ : 606.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $25.787 \pm 0.784$   $\chi^2/\text{NDF}$ : 1124.7/9

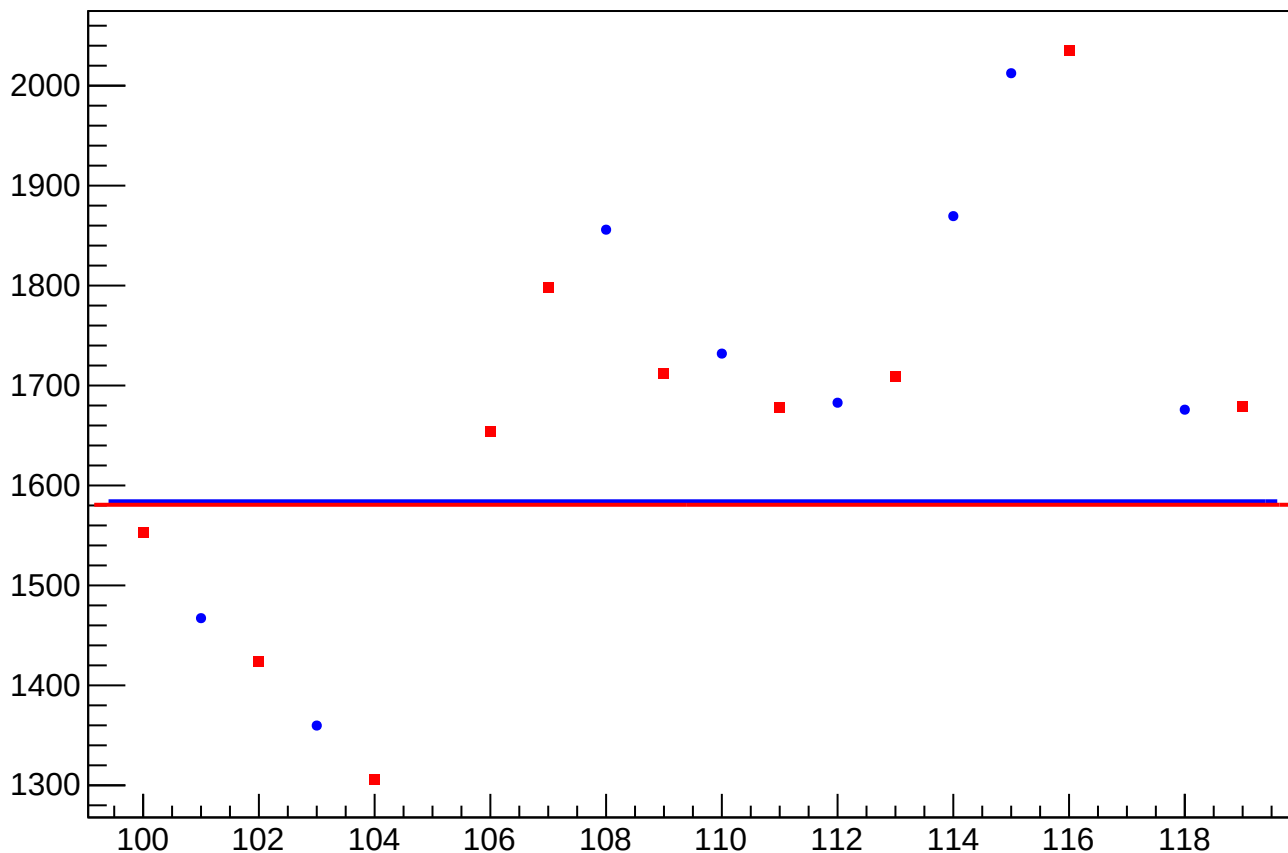
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.009 \pm 0.584$   $\chi^2/\text{NDF}$ : 4153.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i02aY\_rms vs Slug



Right In: 1584.174+/-0.618  $\chi^2/\text{NDF}$ : 88578.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1580.695+/-0.555  $\chi^2/\text{NDF}$ : 114575.2/9

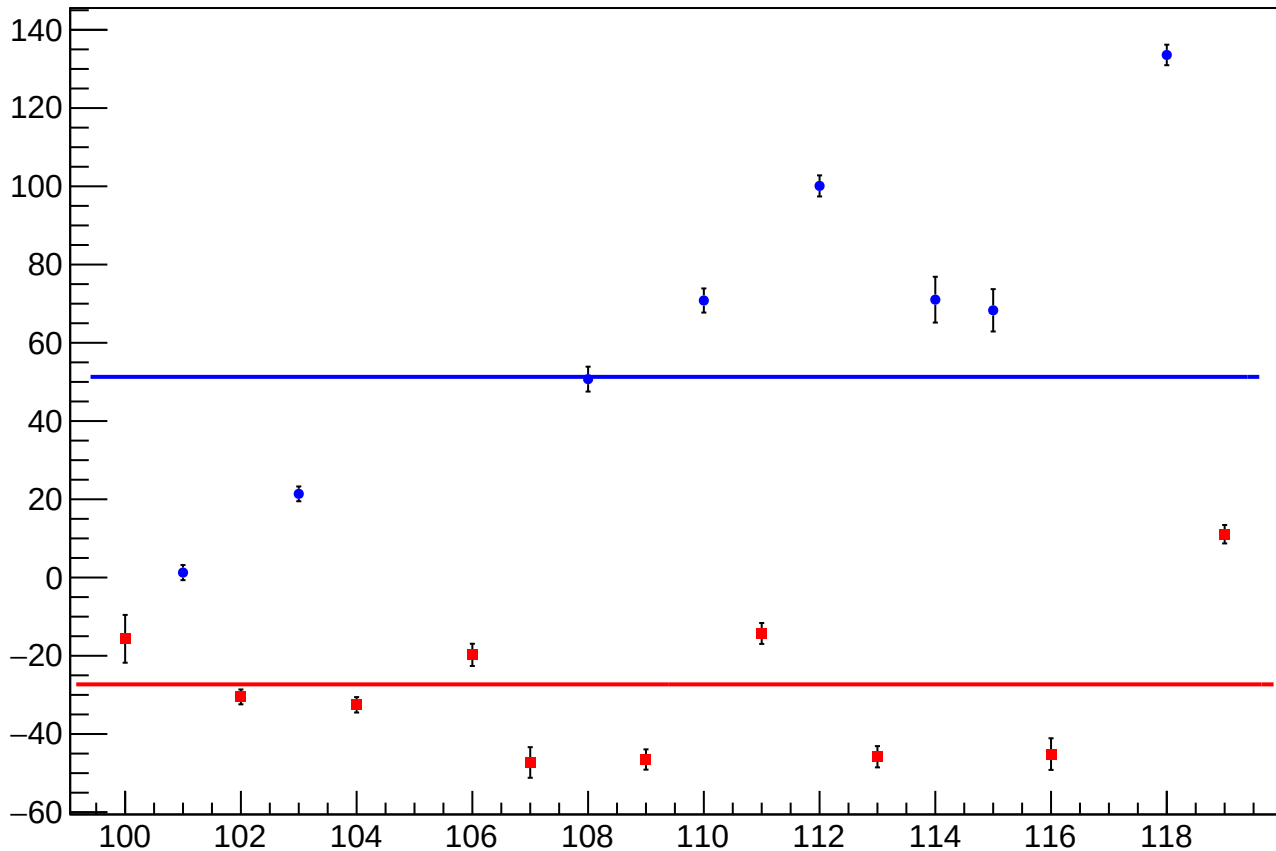
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1582.247+/-0.413  $\chi^2/\text{NDF}$ : 203171.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i05X\_mean vs Slug



Right In: 51.292+/-0.954  $\chi^2/\text{NDF}$ : 2292.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -27.310+/-0.841  $\chi^2/\text{NDF}$ : 456.3/9

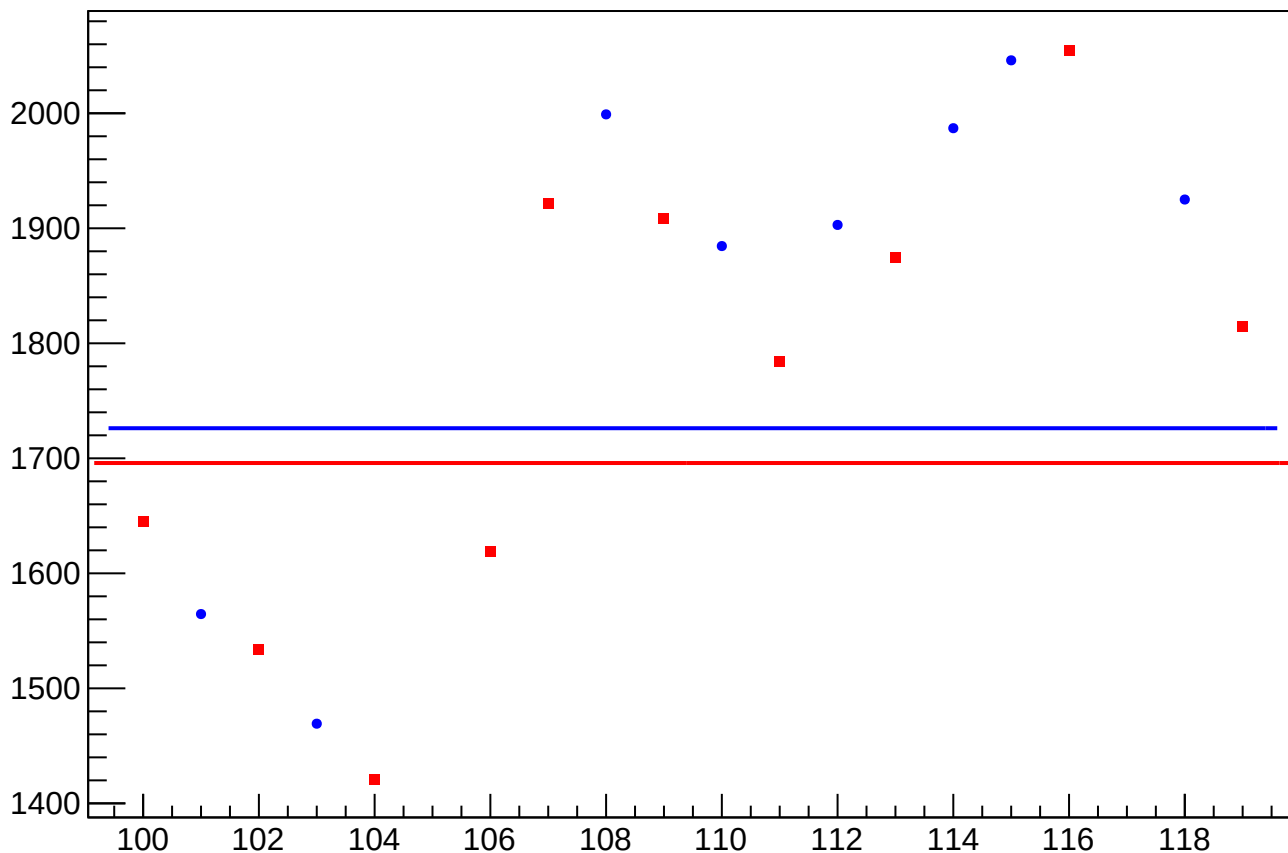
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.043+/-0.631  $\chi^2/\text{NDF}$ : 6569.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i05X\_rms vs Slug



Right In: 1726.173+/-0.675  $\chi^2/\text{NDF}$ : 101973.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1695.913+/-0.595  $\chi^2/\text{NDF}$ : 106836.7/9

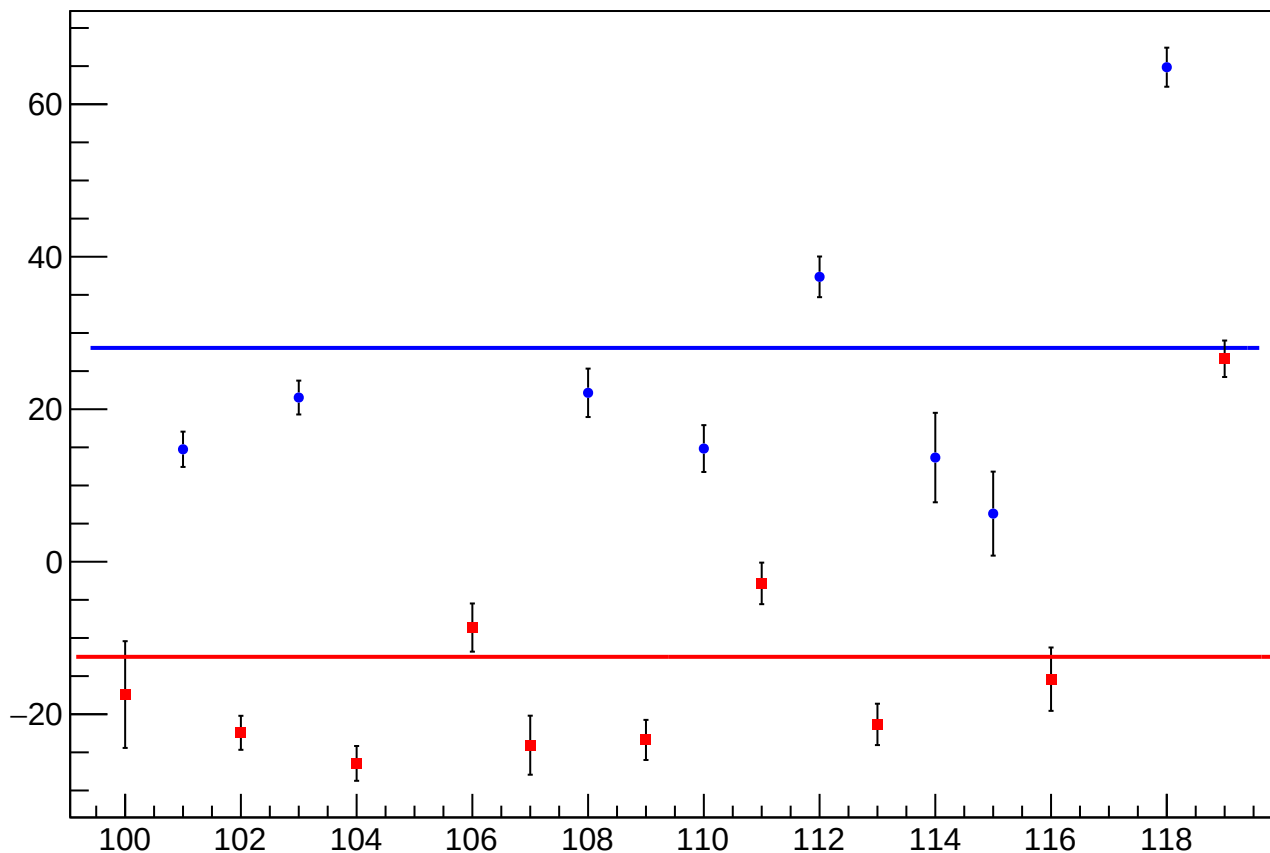
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1709.138+/-0.446  $\chi^2/\text{NDF}$ : 209942.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i05Y\_mean vs Slug



Right In: 28.042 $\pm$ 1.026  $\chi^2$ /NDF: 303.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -12.472 $\pm$ 0.902  $\chi^2$ /NDF: 376.4/9

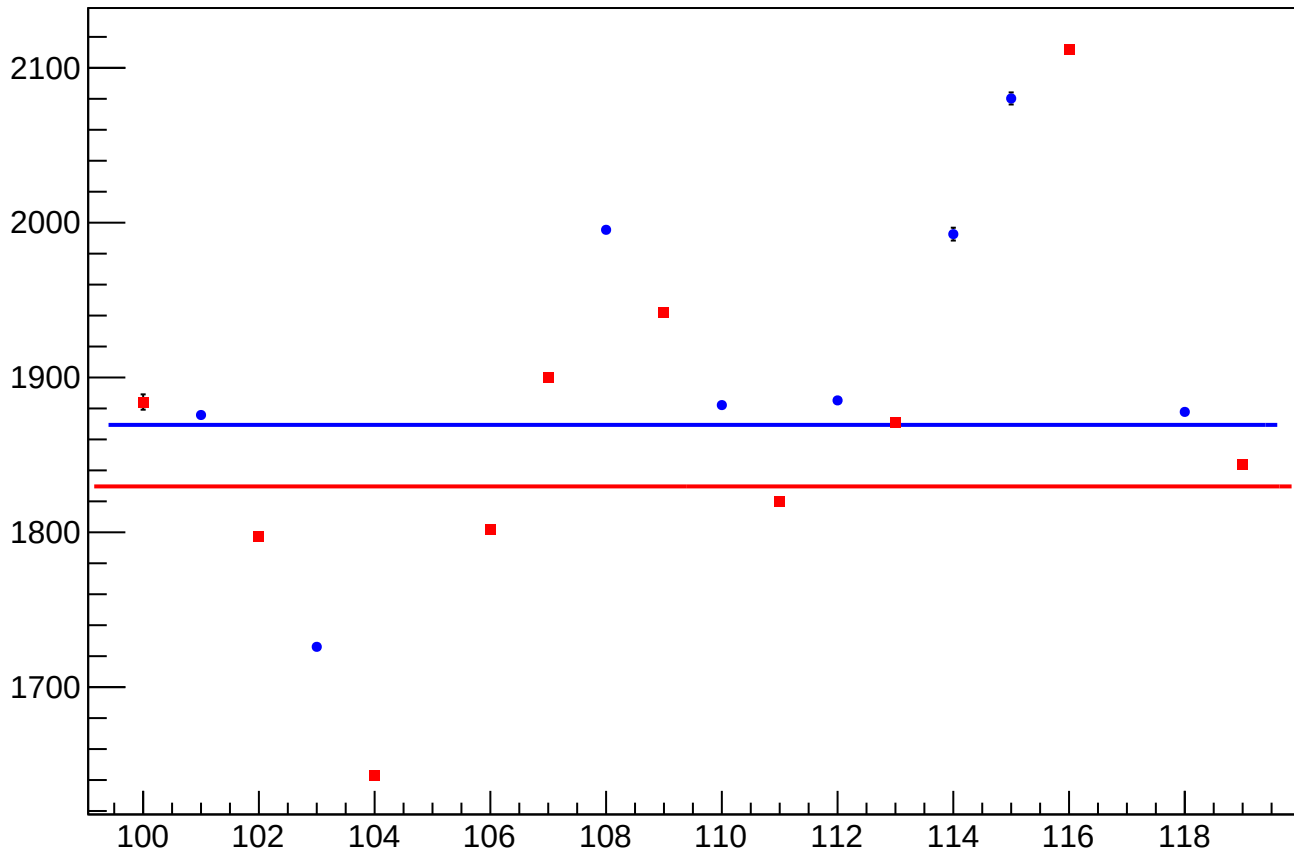
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.192 $\pm$ 0.678  $\chi^2$ /NDF: 1559.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i05Y\_rms vs Slug



Right In: 1869.389+/-0.726  $\chi^2/\text{NDF}$ : 15440.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1829.646+/-0.638  $\chi^2/\text{NDF}$ : 28192.1/9

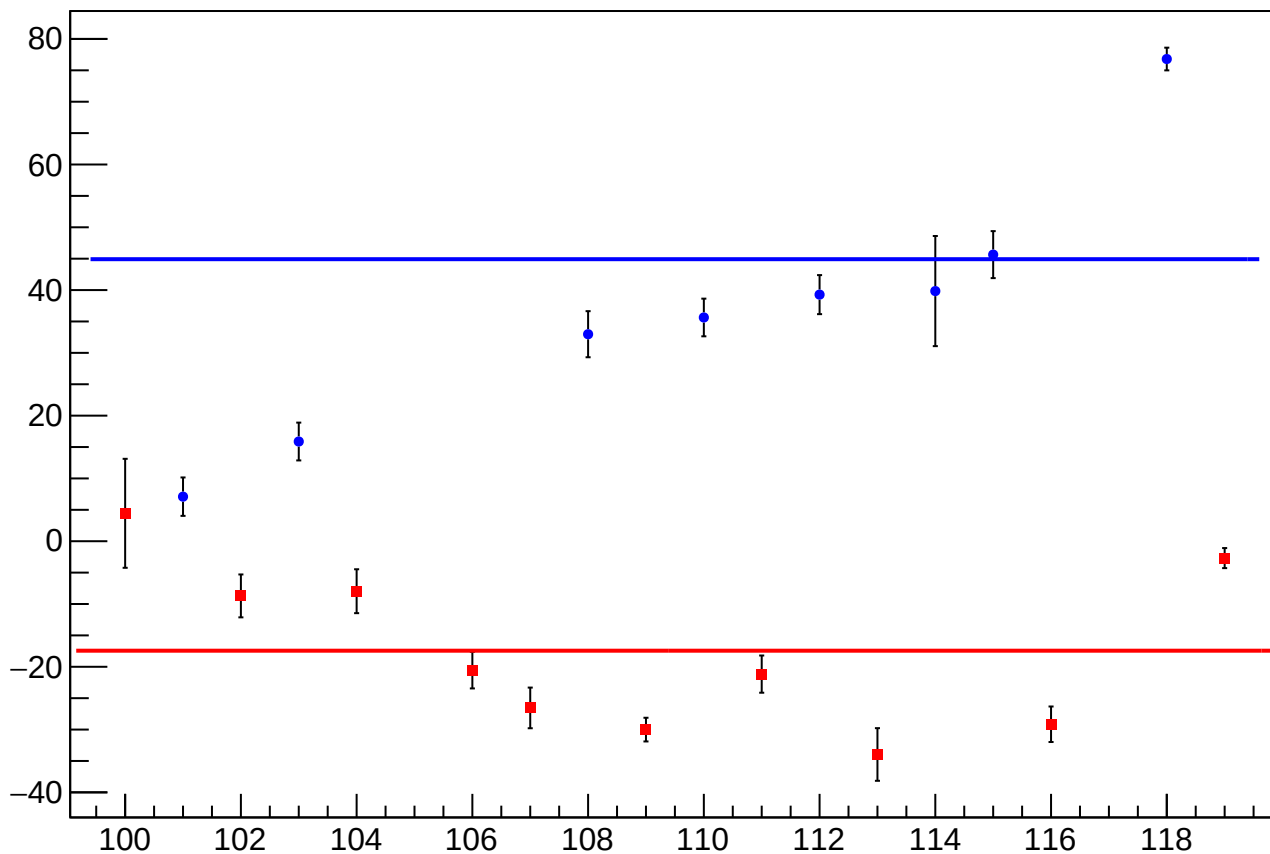
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1846.974+/-0.479  $\chi^2/\text{NDF}$ : 45324.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i07X\_mean vs Slug



Right In: 44.919+/-1.056  $\chi^2/\text{NDF}$ : 581.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -17.437+/-0.857  $\chi^2/\text{NDF}$ : 193.3/9

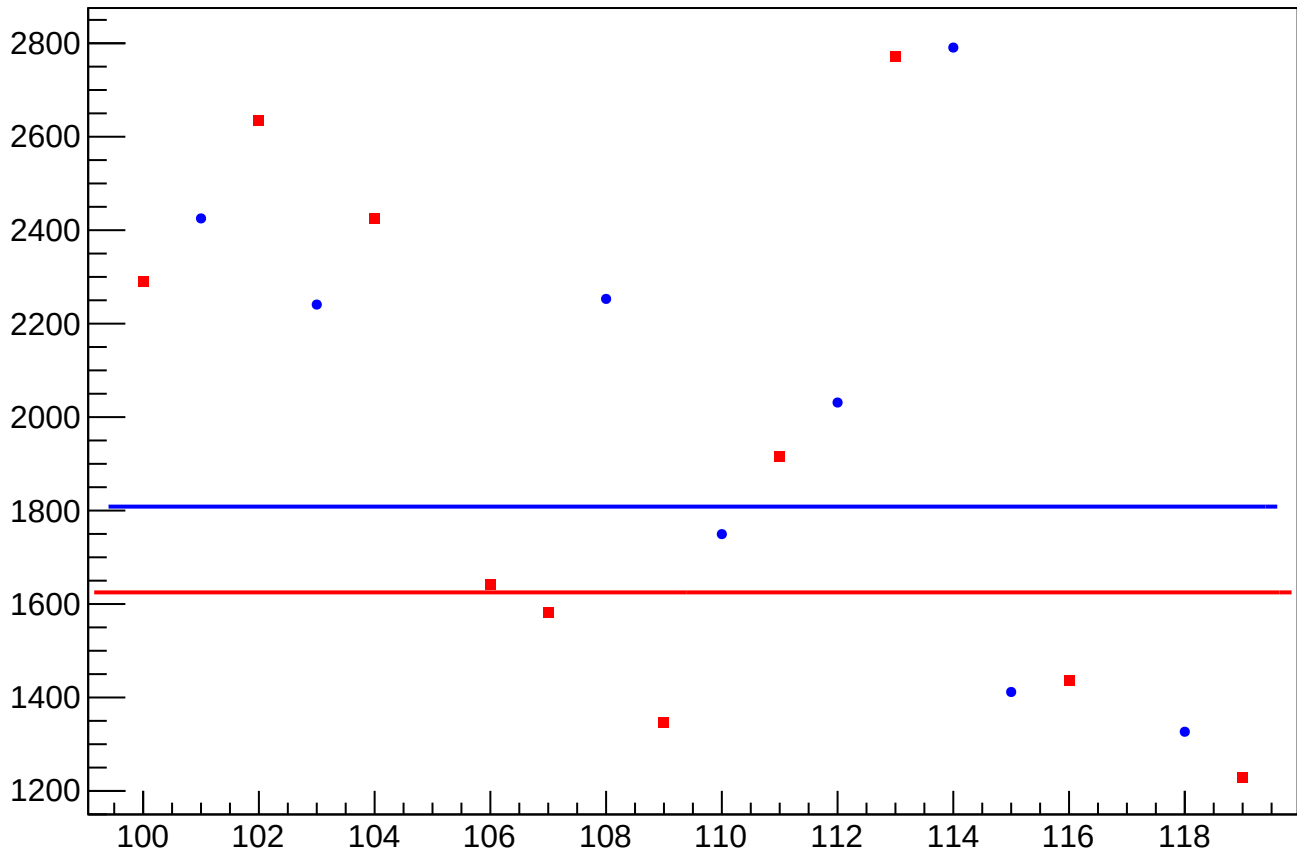
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.308+/-0.665  $\chi^2/\text{NDF}$ : 2877.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i07X\_rms vs Slug



Right In: 1808.475 $\pm$ 0.747  $\chi^2$ /NDF: 352601.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1624.908 $\pm$ 0.606  $\chi^2$ /NDF: 636315.8/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

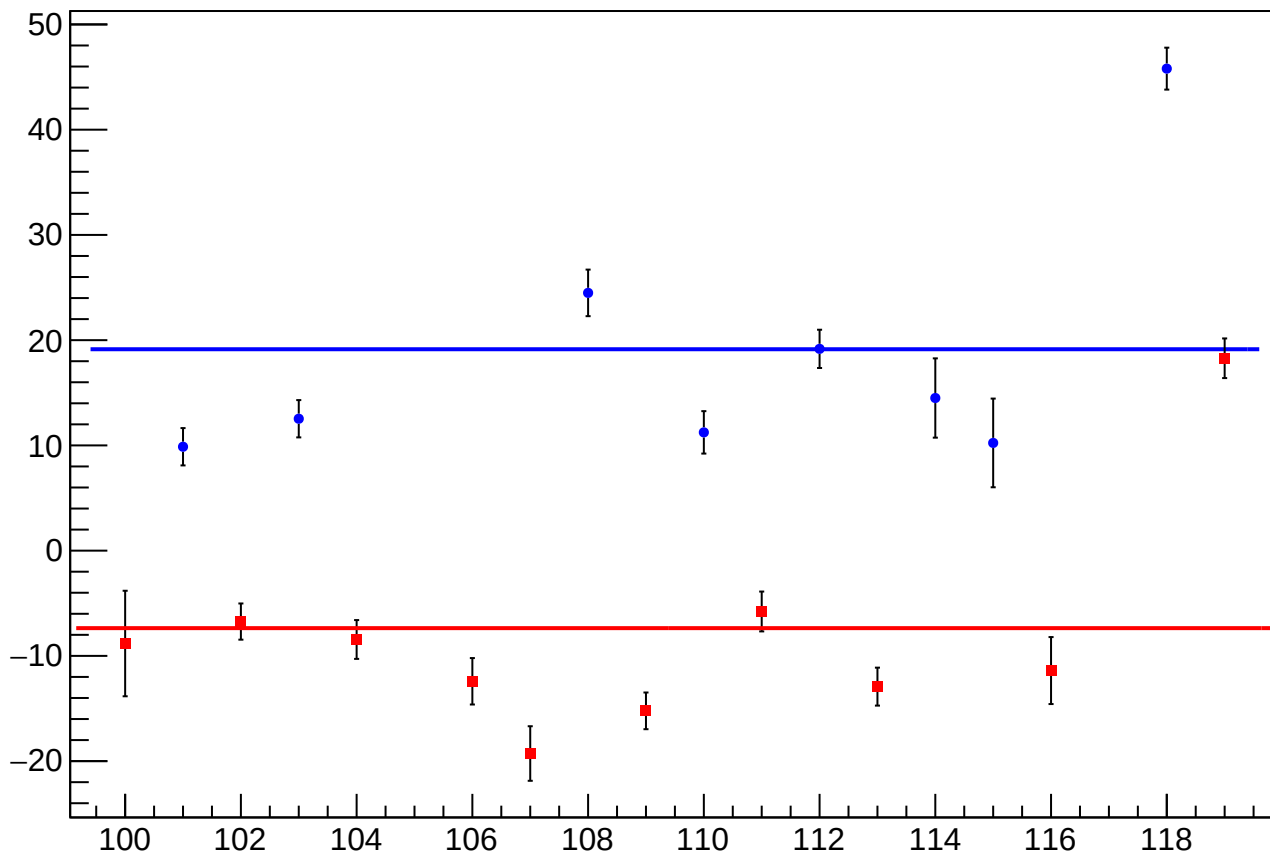
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1697.753 $\pm$ 0.470  $\chi^2$ /NDF: 1025362.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm0i07Y\_mean vs Slug



Right In: 19.137 $\pm$ 0.752  $\chi^2$ /NDF: 247.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -7.364 $\pm$ 0.656  $\chi^2$ /NDF: 244.4/9

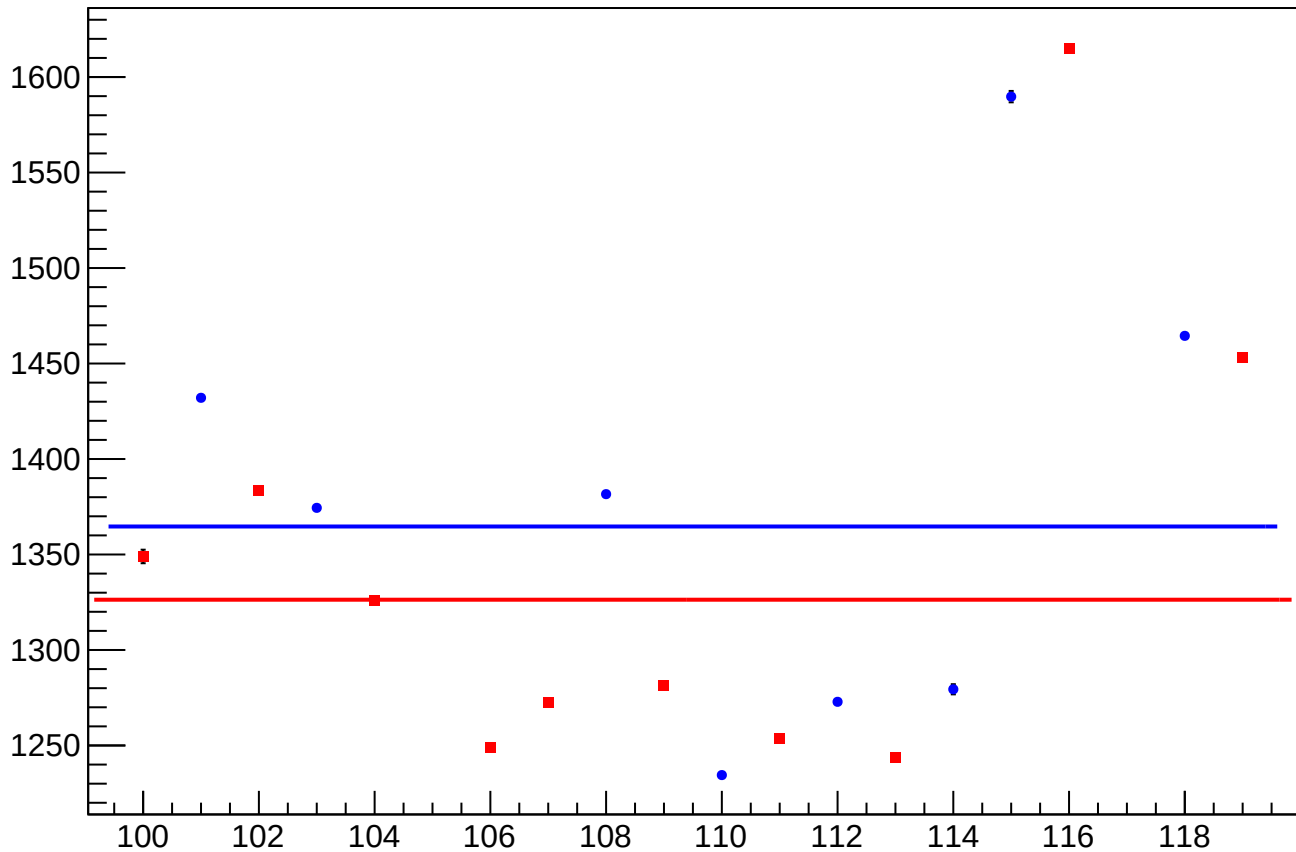
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.091 $\pm$ 0.494  $\chi^2$ /NDF: 1196.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i07Y\_rms vs Slug



Right In: 1364.662 $\pm$ 0.532  $\chi^2$ /NDF: 28257.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1326.323 $\pm$ 0.464  $\chi^2$ /NDF: 39539.0/9

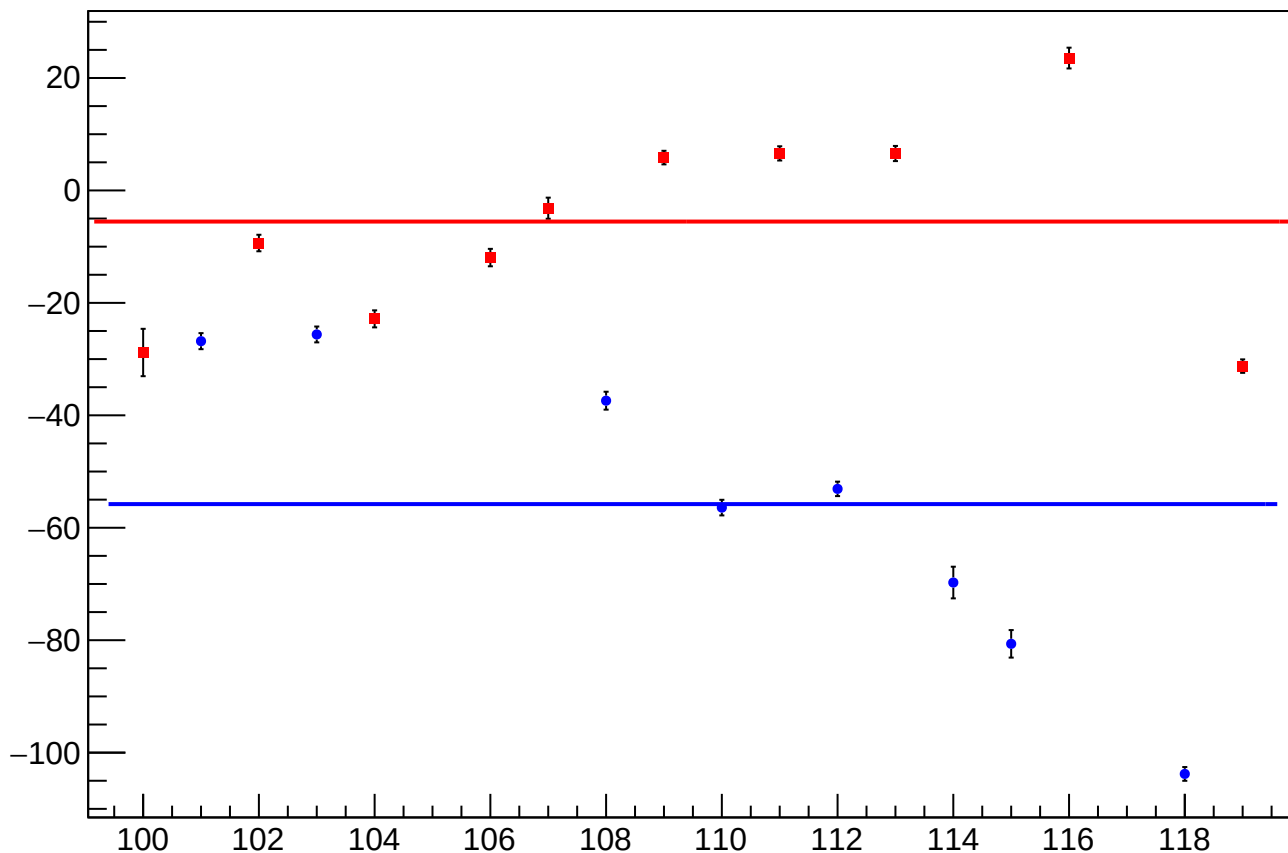
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1342.894 $\pm$ 0.350  $\chi^2$ /NDF: 70747.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i02X\_mean vs Slug



Right In:  $-55.792 \pm 0.537$   $\chi^2/\text{NDF}$ : 2673.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-5.536 \pm 0.471$   $\chi^2/\text{NDF}$ : 1155.9/9

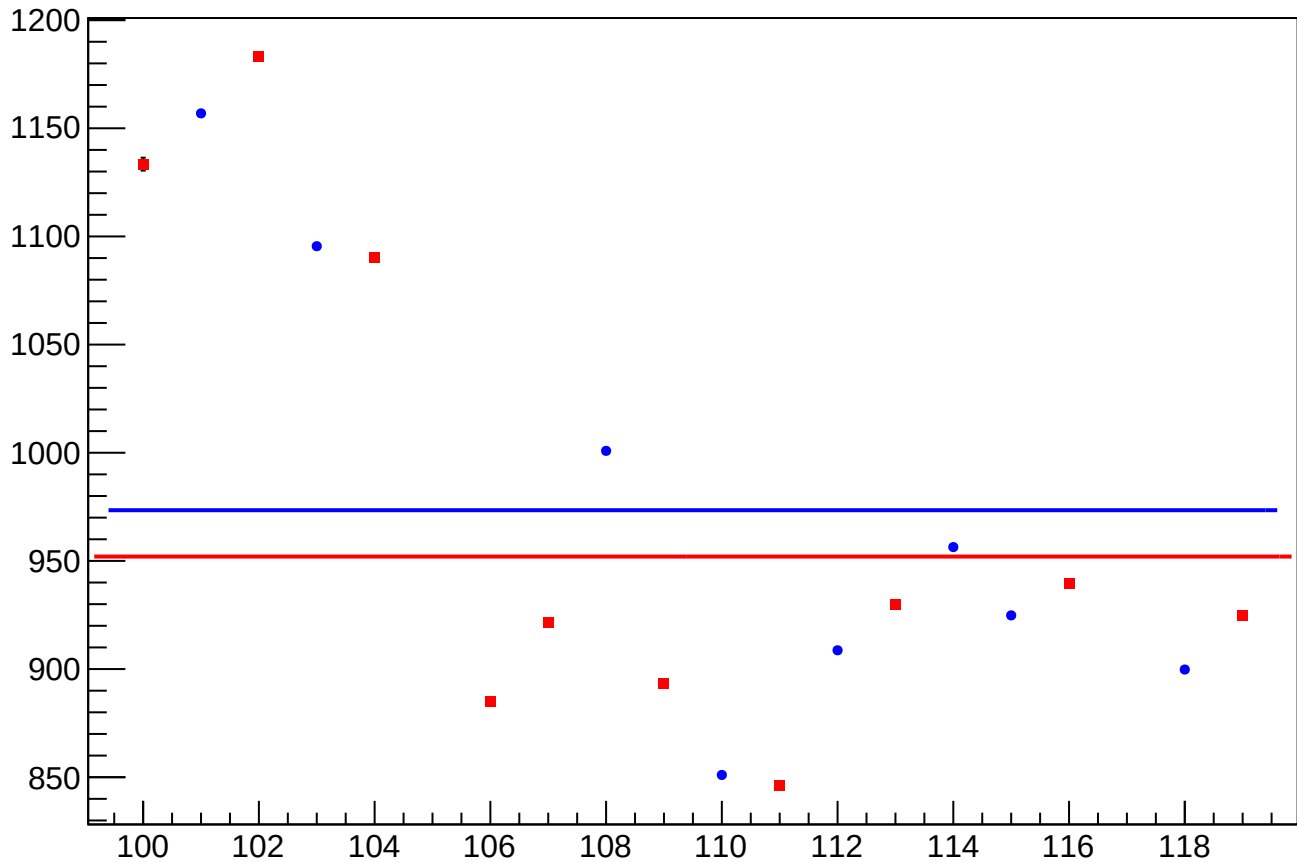
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-27.414 \pm 0.354$   $\chi^2/\text{NDF}$ : 8782.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1i02X\_rms vs Slug



Right In: 973.434 $\pm$ 0.379  $\chi^2$ /NDF: 77339.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 952.006 $\pm$ 0.333  $\chi^2$ /NDF: 94506.5/9

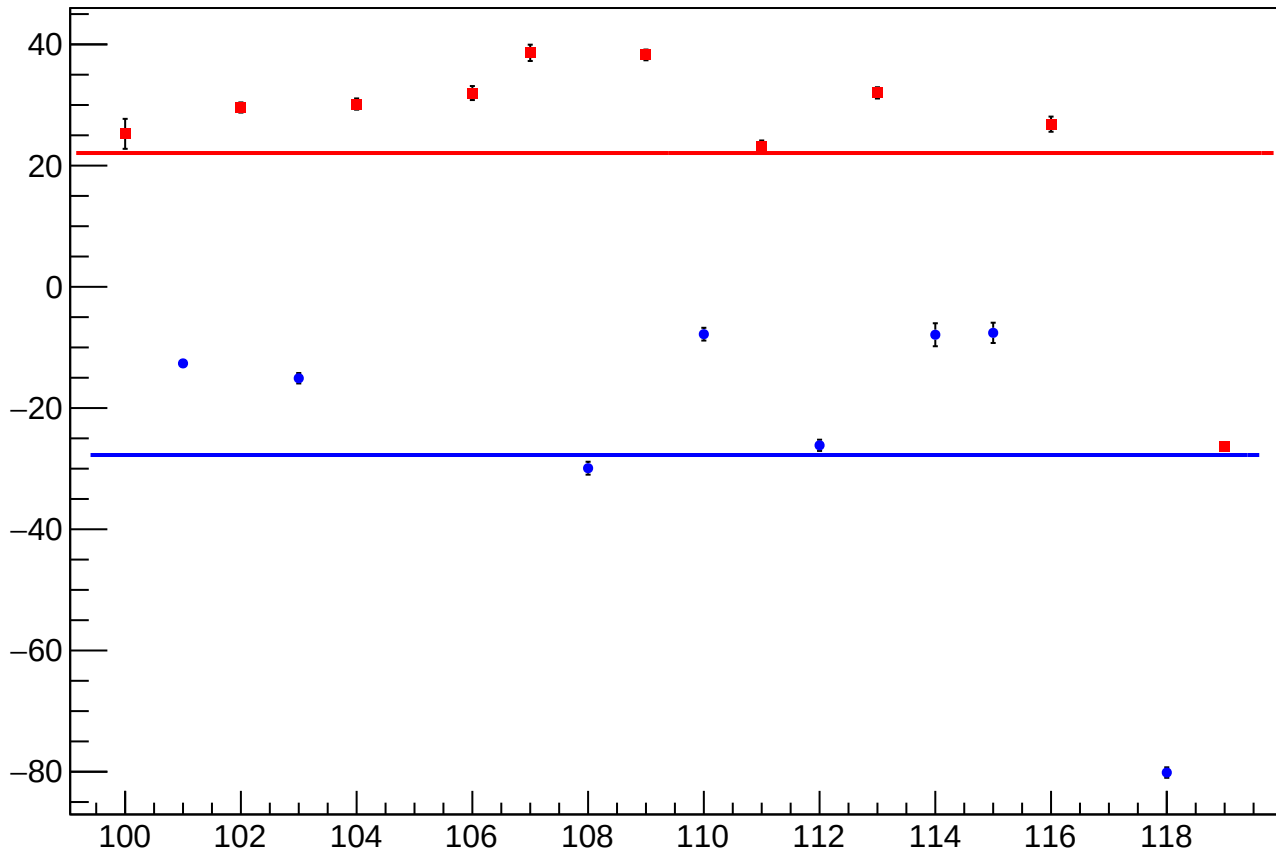
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 961.334 $\pm$ 0.250  $\chi^2$ /NDF: 173647.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i02Y\_mean vs Slug



Right In:  $-27.746 \pm 0.360$   $\chi^2/\text{NDF}: 4835.1/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $22.078 \pm 0.321$   $\chi^2/\text{NDF}: 4408.2/9$

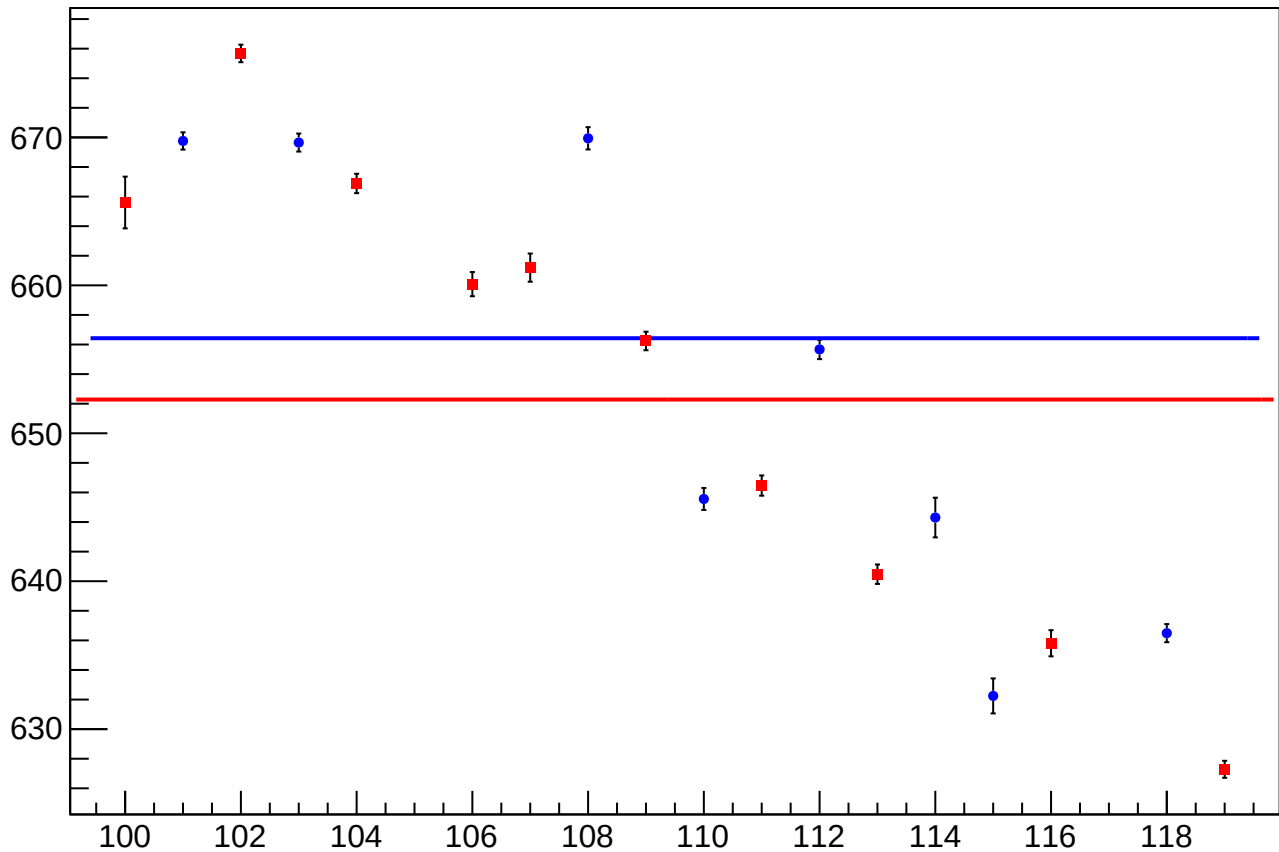
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.011 \pm 0.239$   $\chi^2/\text{NDF}: 19930.2/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# diff\_bpm1i02Y\_rms vs Slug



Right In: 656.425 $\pm$ 0.254  $\chi^2$ /NDF: 3090.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 652.281 $\pm$ 0.227  $\chi^2$ /NDF: 4969.4/9

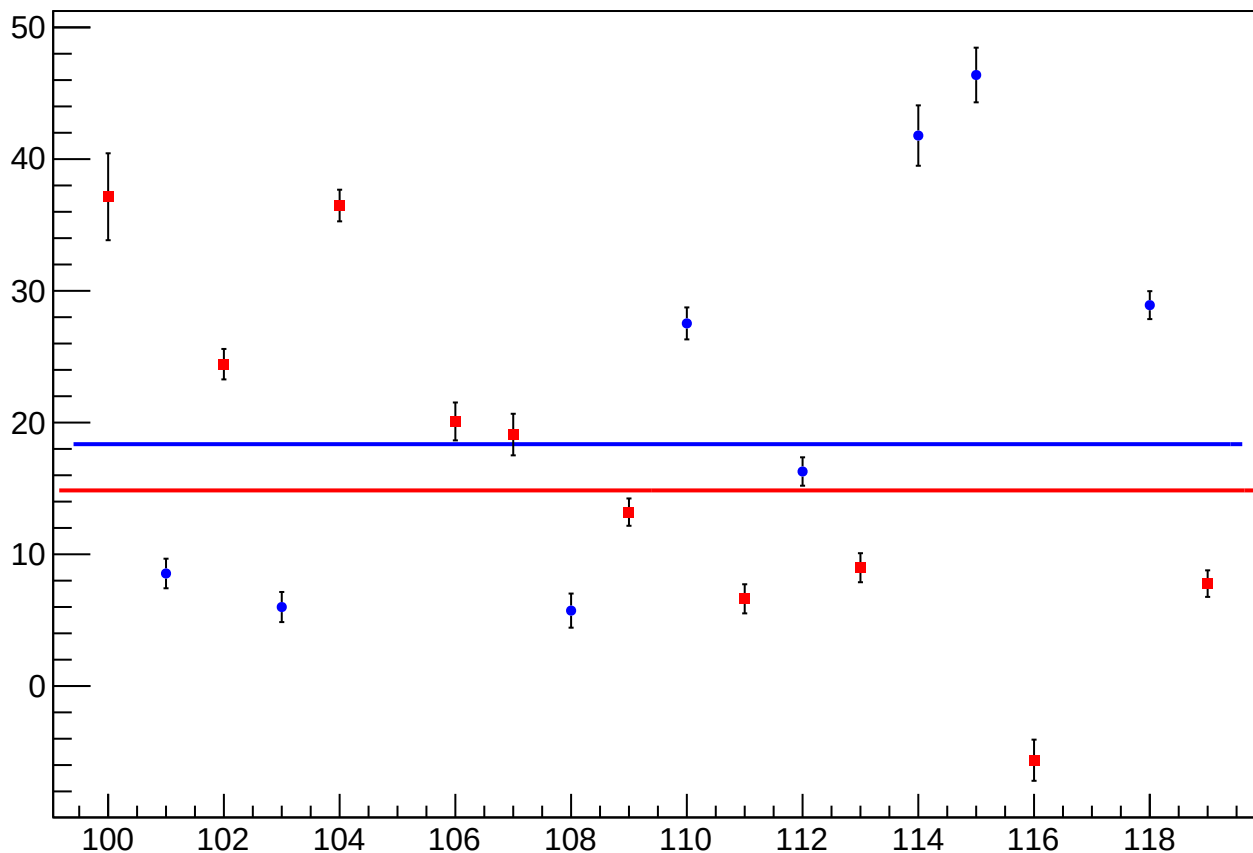
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 654.118 $\pm$ 0.169  $\chi^2$ /NDF: 8207.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i04X\_mean vs Slug



Right In: 18.360 $\pm$ 0.447  $\chi^2$ /NDF: 735.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.849 $\pm$ 0.396  $\chi^2$ /NDF: 766.8/9

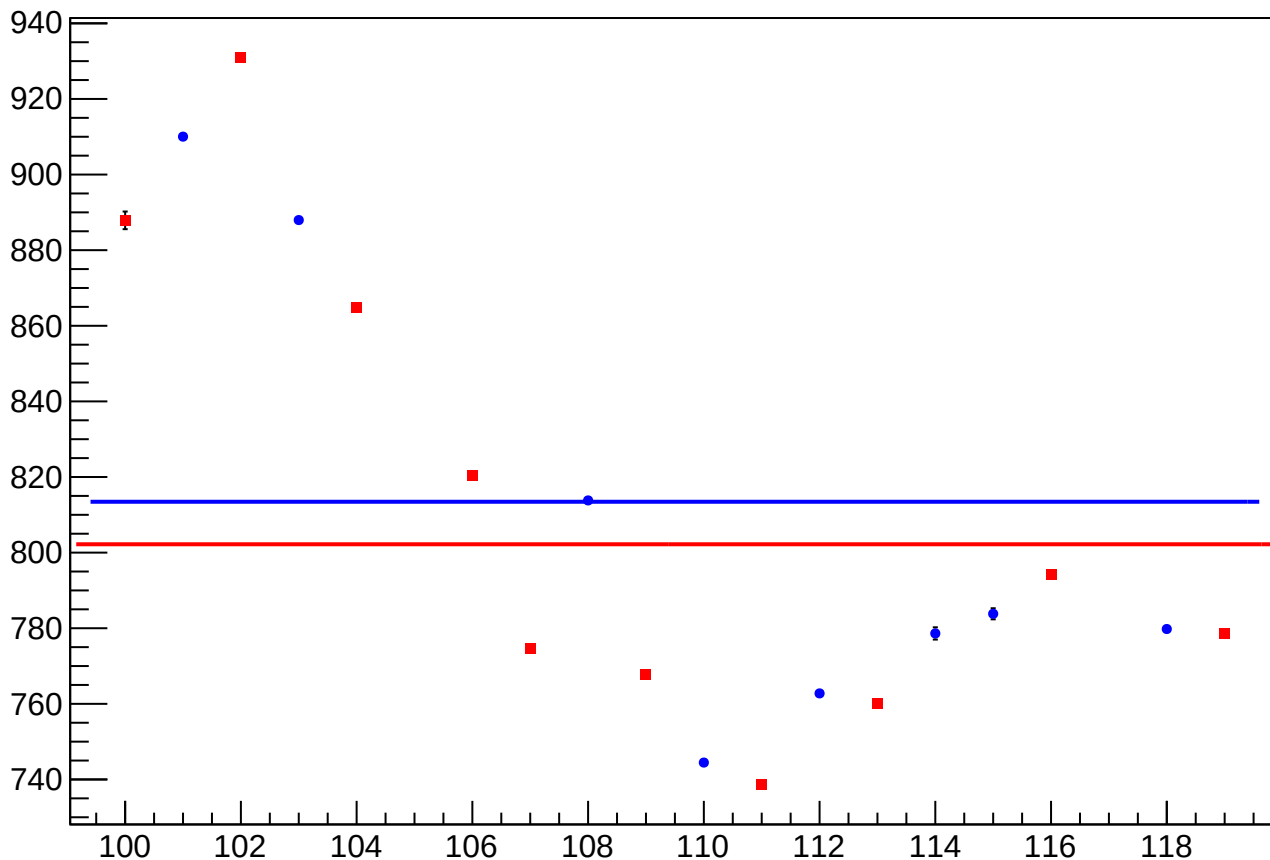
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.393 $\pm$ 0.296  $\chi^2$ /NDF: 1536.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i04X\_rms vs Slug



Right In: 813.455 $\pm$ 0.316  $\chi^2$ /NDF: 37074.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 802.210 $\pm$ 0.280  $\chi^2$ /NDF: 45422.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

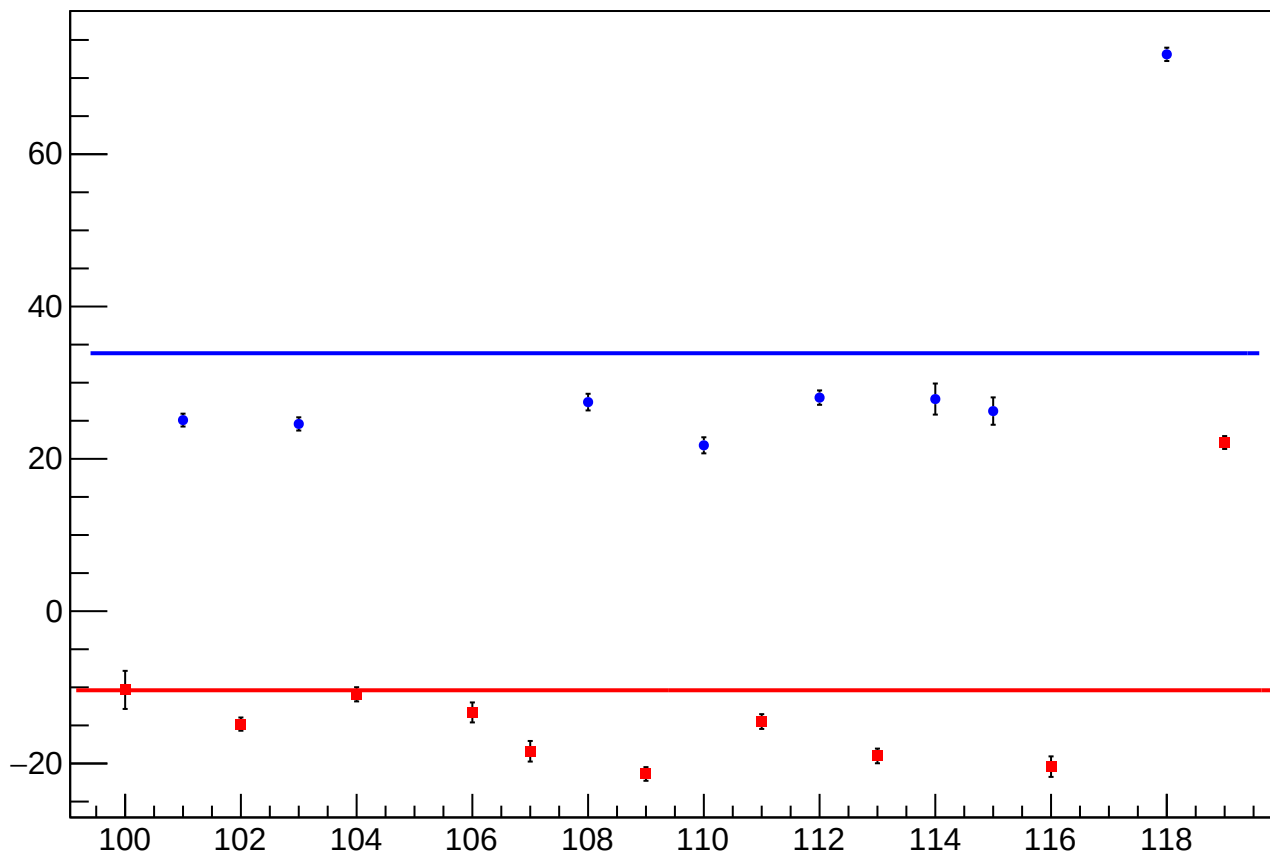
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 807.153 $\pm$ 0.210  $\chi^2$ /NDF: 83206.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm1i04Y\_mean vs Slug



Right In: 33.867 $\pm$ 0.367  $\chi^2$ /NDF: 2458.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -10.386 $\pm$ 0.332  $\chi^2$ /NDF: 1844.7/9

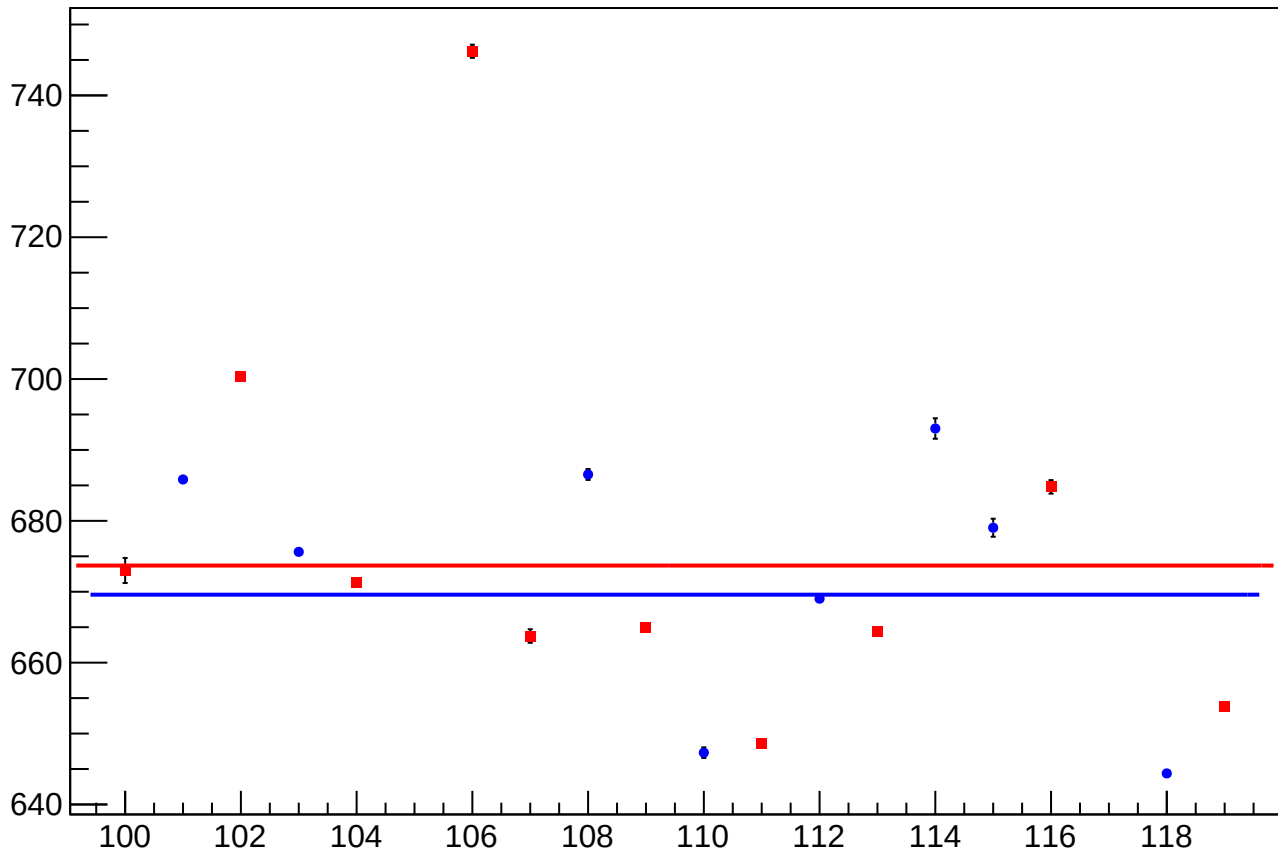
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.518 $\pm$ 0.246  $\chi^2$ /NDF: 12307.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i04Y\_rms vs Slug



Right In: 669.588 $\pm$ 0.259  $\chi^2$ /NDF: 4183.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 673.696 $\pm$ 0.235  $\chi^2$ /NDF: 11064.6/9

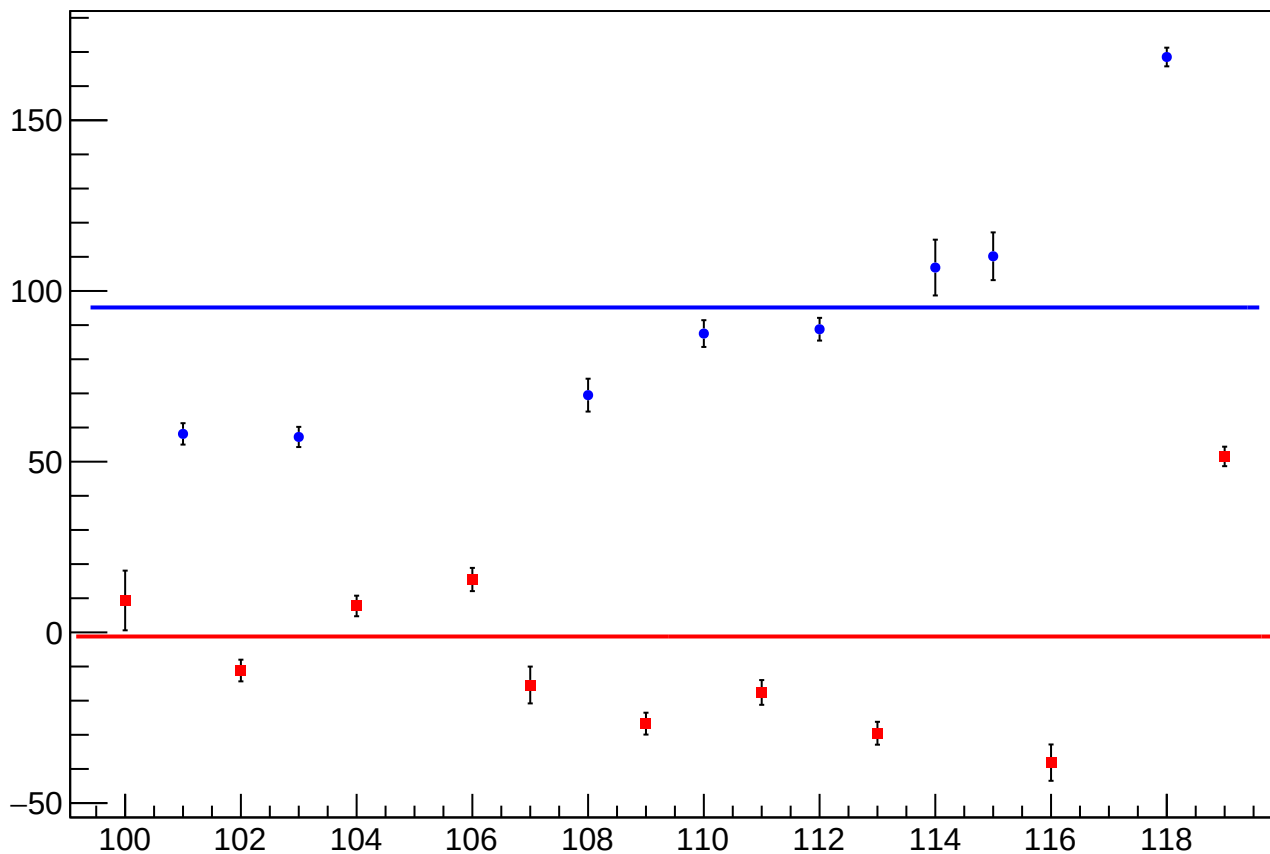
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 671.848 $\pm$ 0.174  $\chi^2$ /NDF: 15385.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i06X\_mean vs Slug



Right In: 95.169+/-1.309  $\chi^2$ /NDF: 1066.4/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.206+/-1.144  $\chi^2$ /NDF: 596.4/9

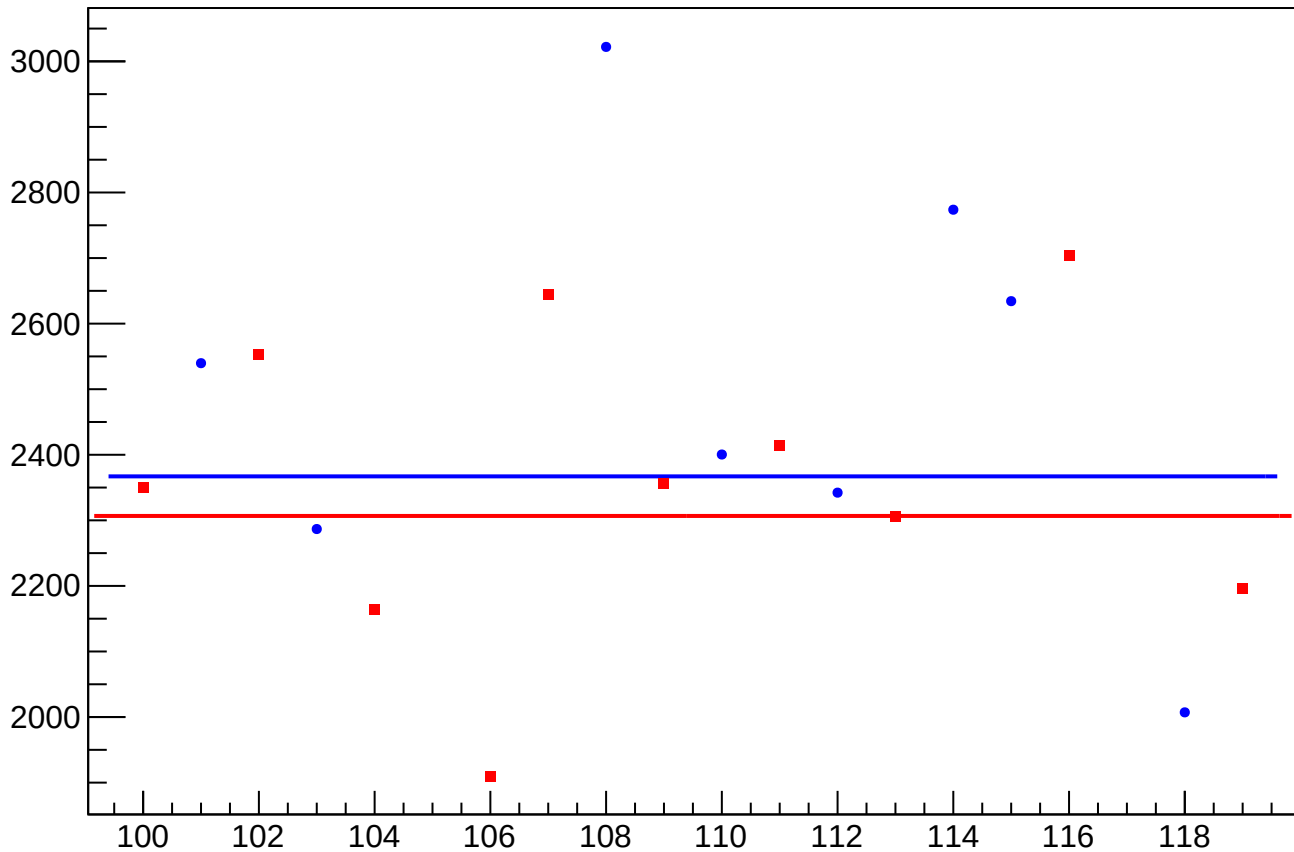
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 40.540+/-0.861  $\chi^2$ /NDF: 4736.8/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i06X\_rms vs Slug



Right In: 2367.059 $\pm$ 0.925  $\chi^2$ /NDF: 87351.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2306.704 $\pm$ 0.809  $\chi^2$ /NDF: 68183.4/9

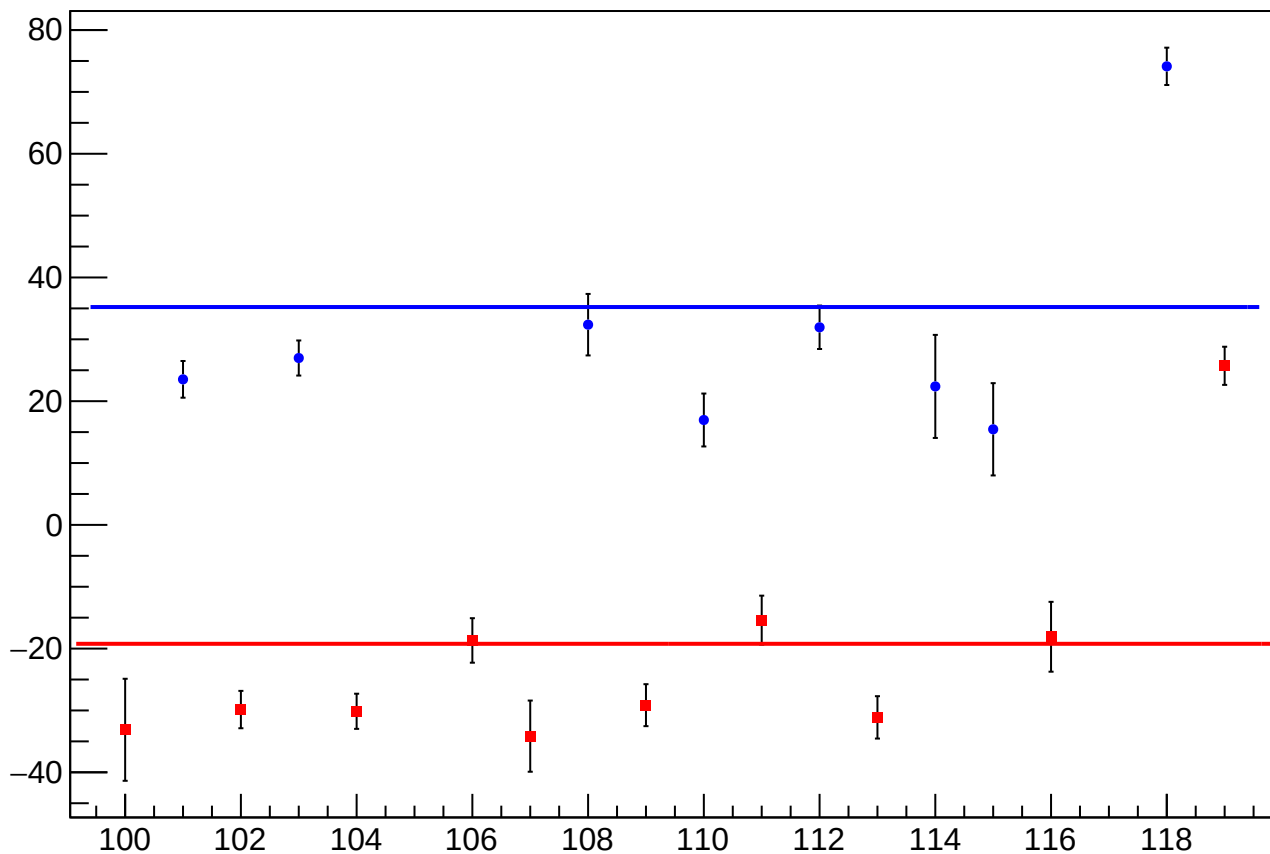
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2332.847 $\pm$ 0.609  $\chi^2$ /NDF: 157945.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

diff\_bpm1i06Y\_mean vs Slug



Right In: 35.221+/-1.341  $\chi^2/\text{NDF}$ : 219.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -19.225+/-1.172  $\chi^2/\text{NDF}$ : 270.7/9

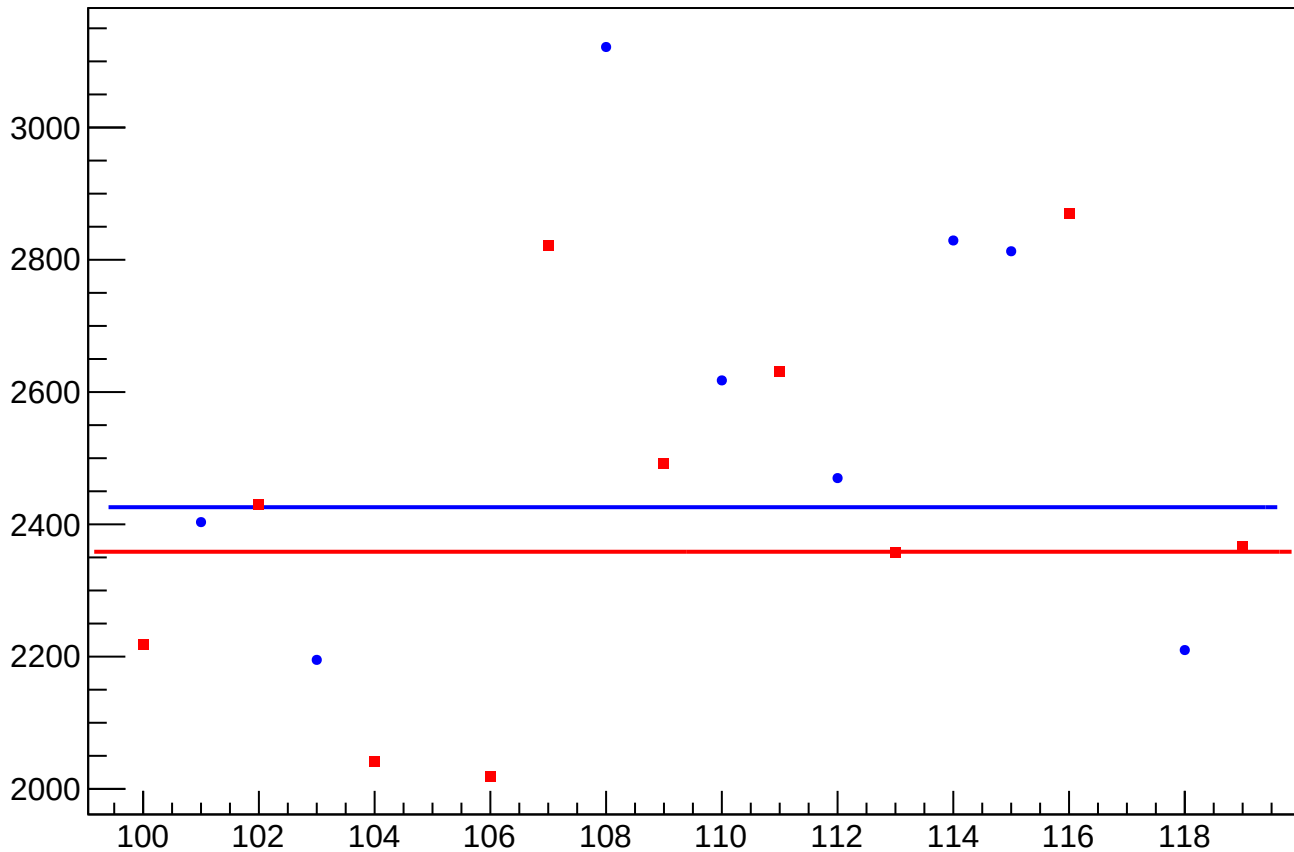
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.359+/-0.882  $\chi^2/\text{NDF}$ : 1424.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1i06Y\_rms vs Slug



Right In: 2425.926 $\pm$ 0.948  $\chi^2$ /NDF: 77177.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2358.565 $\pm$ 0.829  $\chi^2$ /NDF: 86461.9/9

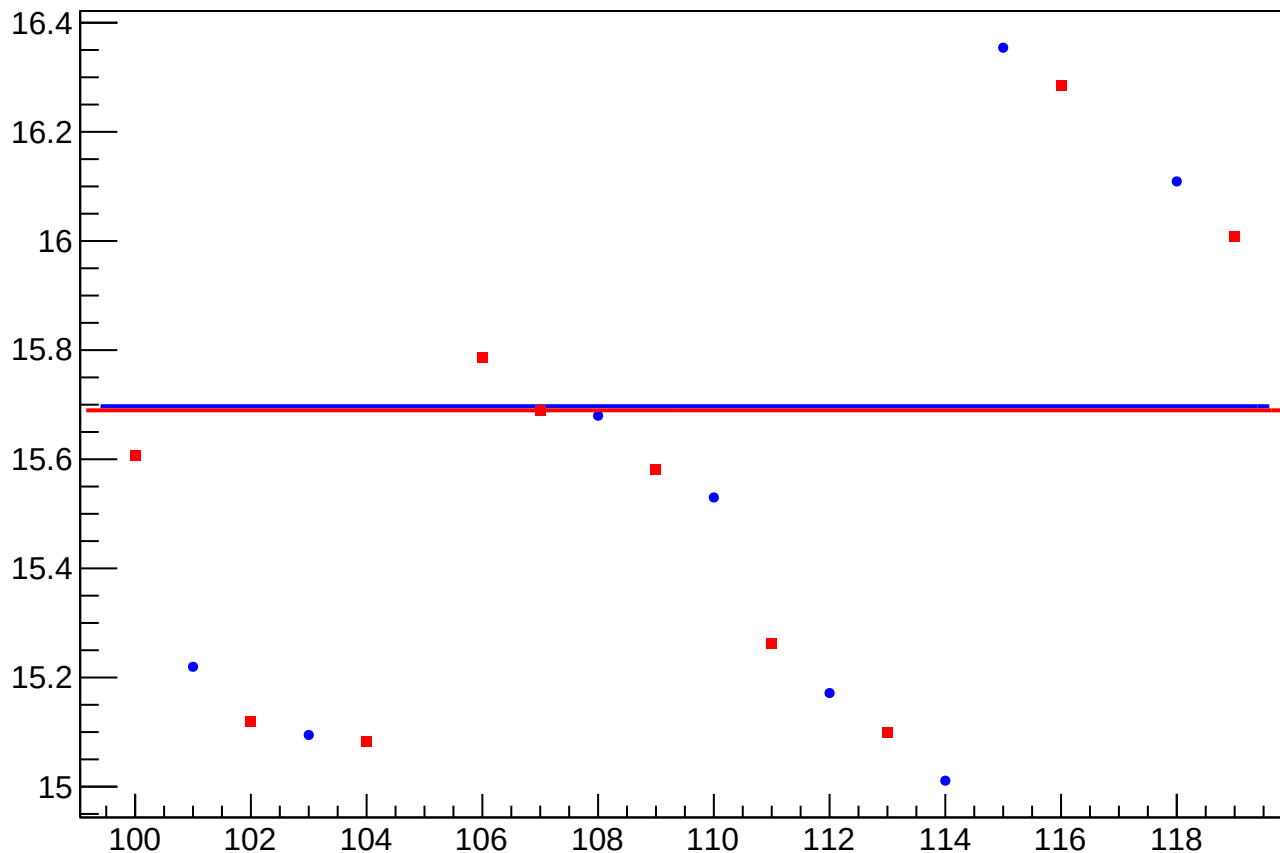
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2387.744 $\pm$ 0.624  $\chi^2$ /NDF: 166500.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_sam1\_mean vs Slug



Right In: 15.697+/-0.000  $\chi^2/\text{NDF}$ : 1384250287.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15.690+/-0.000  $\chi^2/\text{NDF}$ : 1323818354.5/9

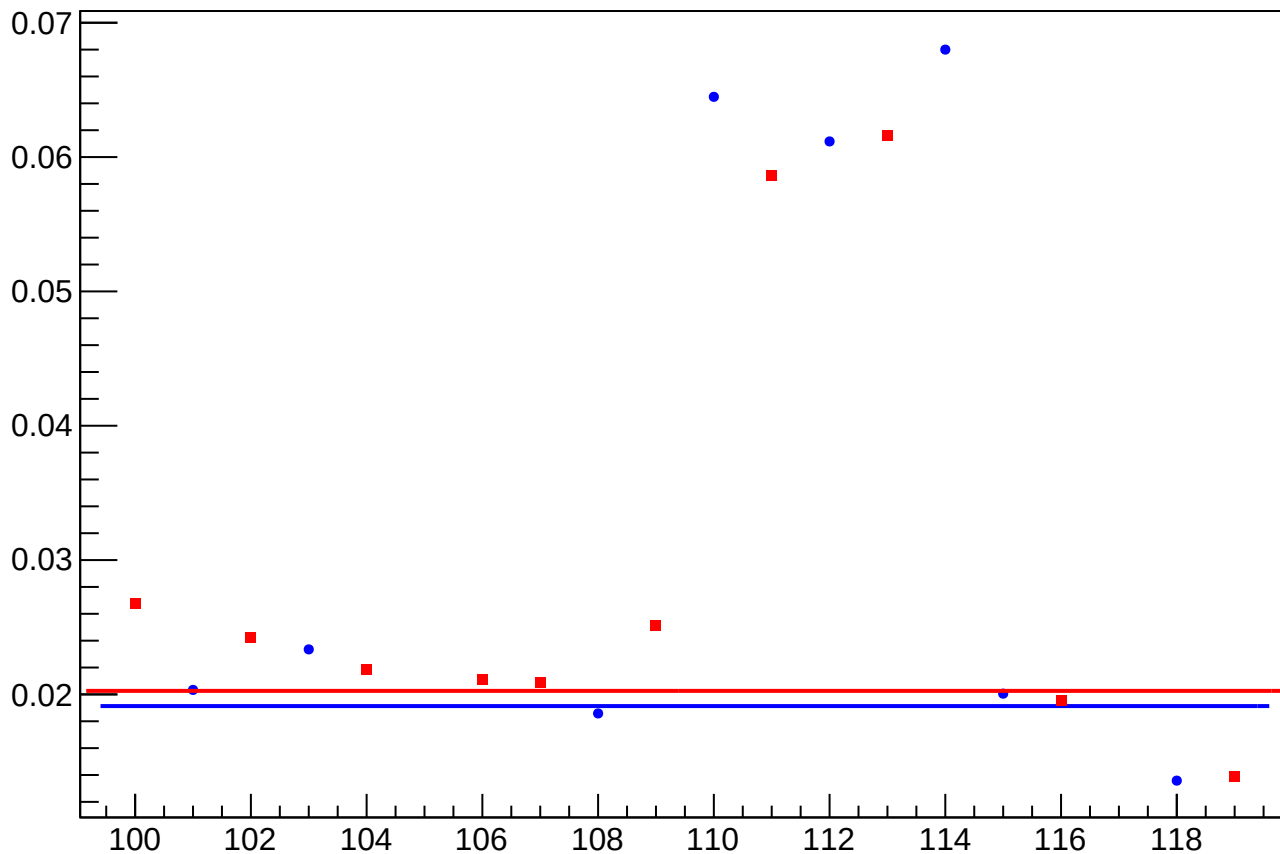
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15.693+/-0.000  $\chi^2/\text{NDF}$ : 2708271248.6/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam1\_rms vs Slug



Right In: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 1097011.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 1073899.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

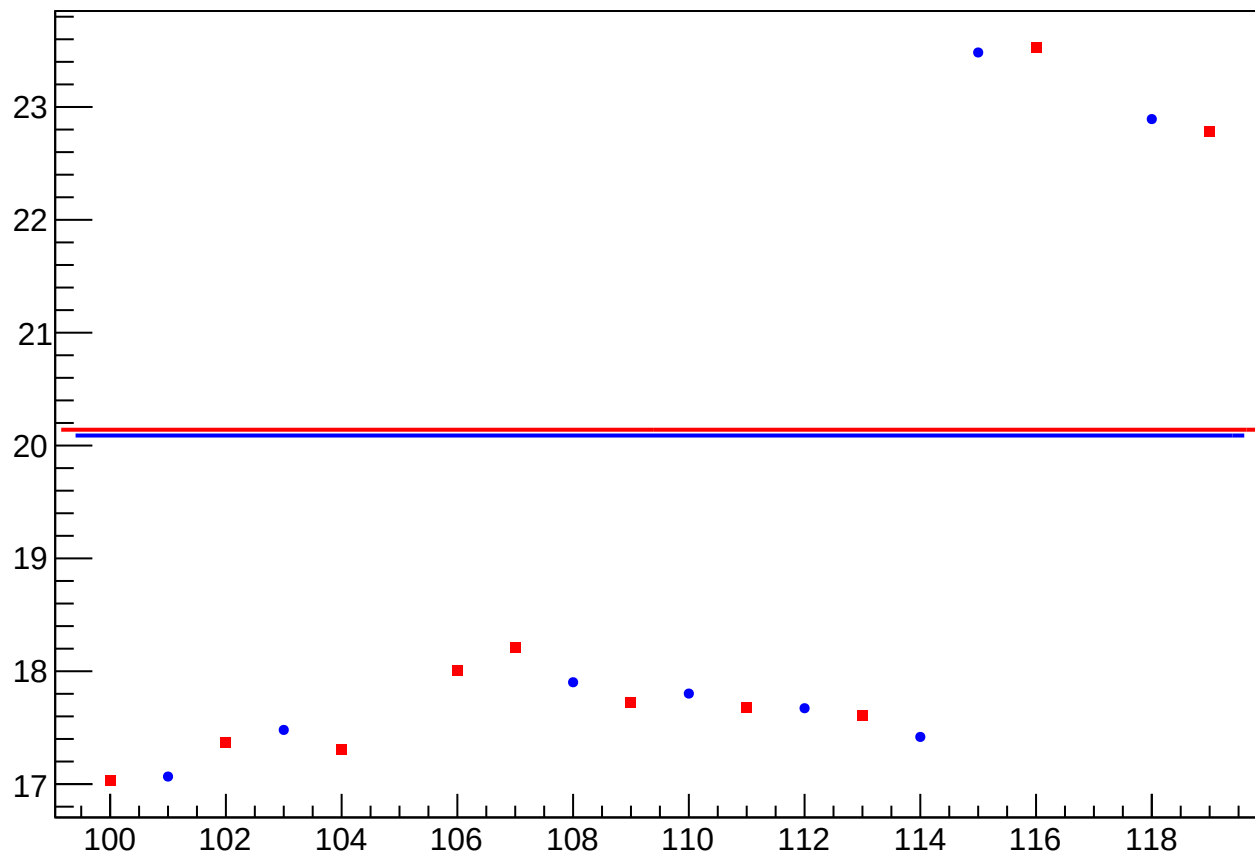
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 2180132.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_sam2\_mean vs Slug



Right In: 20.089+/-0.000  $\chi^2$ /NDF: 553943917.4/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 20.140+/-0.000  $\chi^2$ /NDF: 603143881.9/9

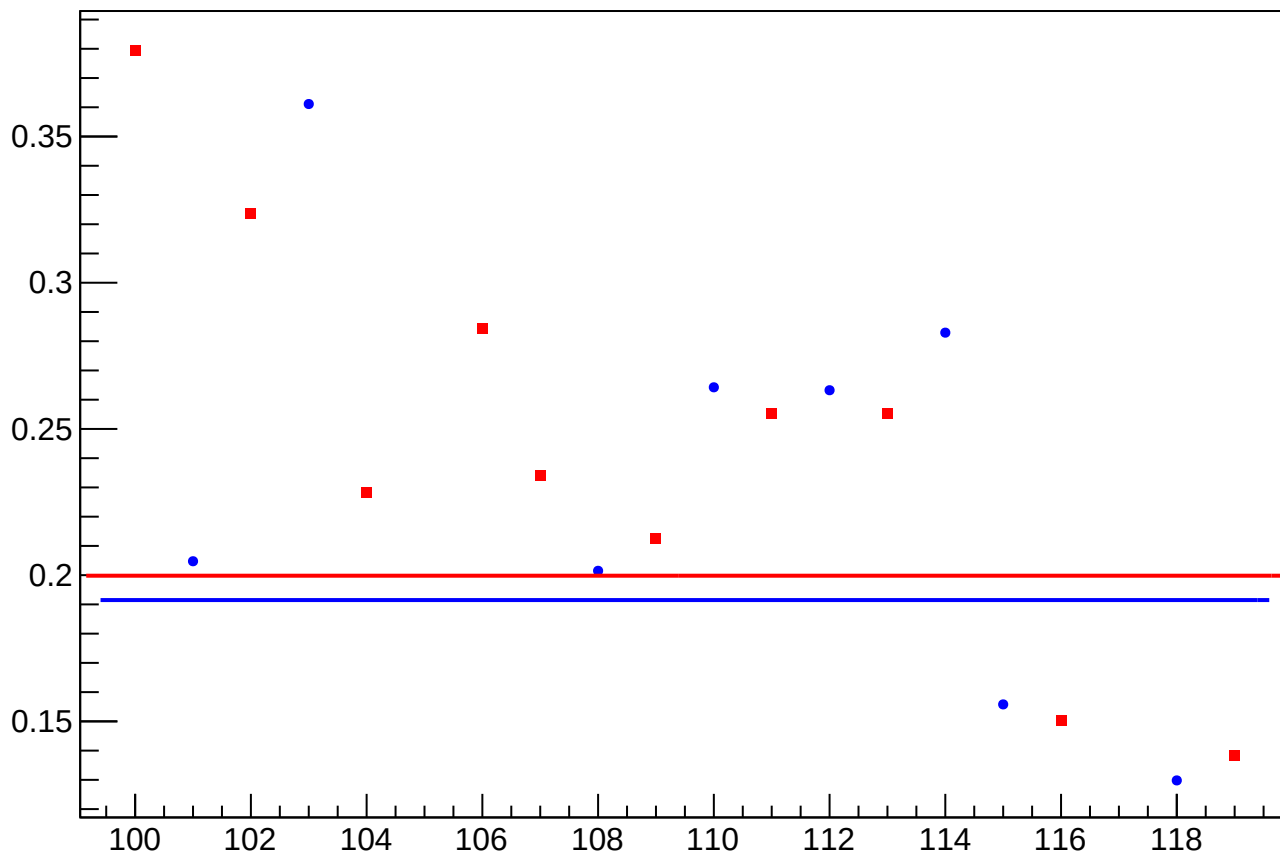
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 20.116+/-0.000  $\chi^2$ /NDF: 1157190618.5/1

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# yield\_sam2\_rms vs Slug



Right In: 0.191+/-0.000  $\chi^2/\text{NDF}$ : 642737.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.200+/-0.000  $\chi^2/\text{NDF}$ : 619071.9/9

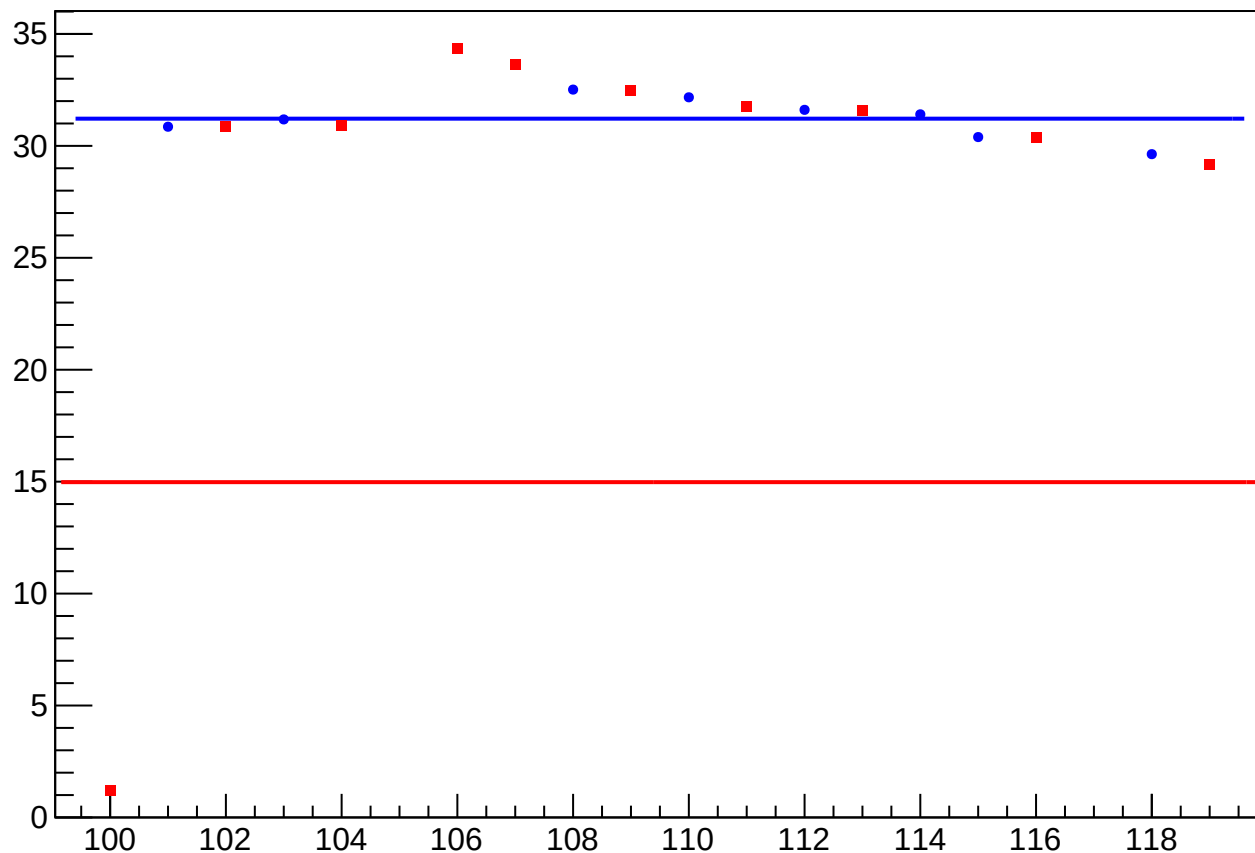
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.196+/-0.000  $\chi^2/\text{NDF}$ : 1267195.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam3\_mean vs Slug



Right In: 31.216+/-0.000  $\chi^2/\text{NDF}$ : 210731599.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14.978+/-0.000  $\chi^2/\text{NDF}$ : 162594076393.1/9

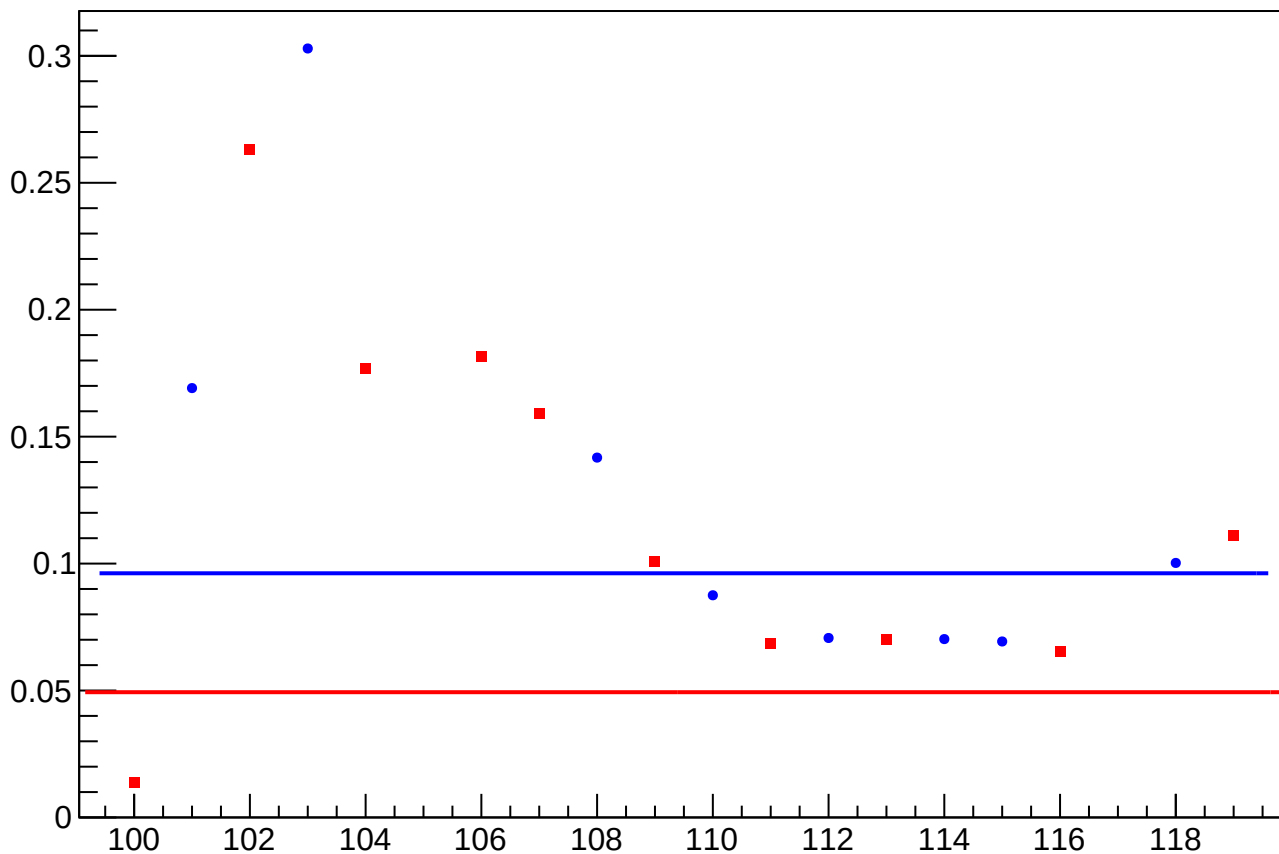
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.214+/-0.000  $\chi^2/\text{NDF}$ : 212282059416.

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam3\_rms vs Slug



Right In: 0.096 $\pm$ 0.000  $\chi^2$ /NDF: 983439.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.049 $\pm$ 0.000  $\chi^2$ /NDF: 3287690.7/9

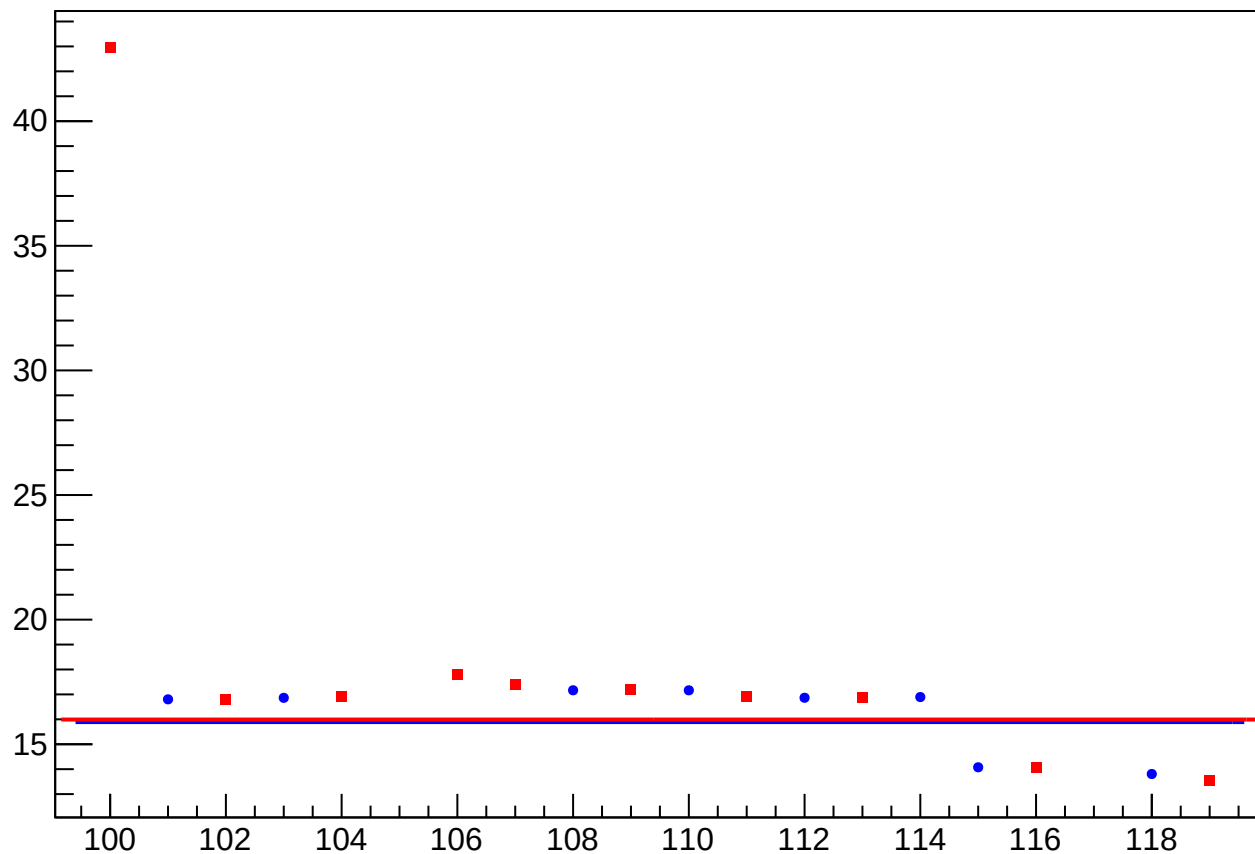
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.062 $\pm$ 0.000  $\chi^2$ /NDF: 5094680.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_sam4\_mean vs Slug



Right In: 15.890+/-0.000  $\chi^2/\text{NDF}$ : 571076492.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15.992+/-0.000  $\chi^2/\text{NDF}$ : 1070267446.3/9

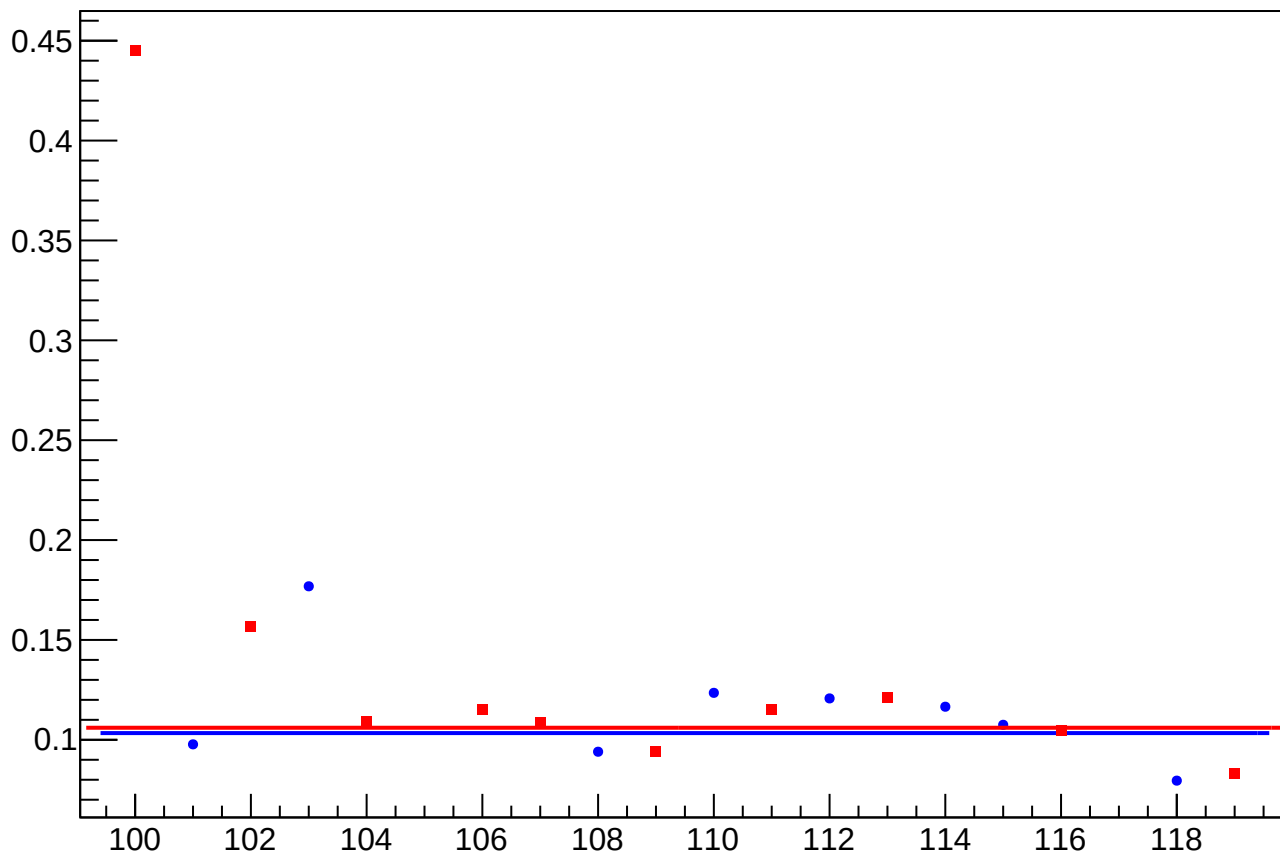
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15.944+/-0.000  $\chi^2/\text{NDF}$ : 1642794422.5/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam4\_rms vs Slug



Right In: 0.103+/-0.000  $\chi^2/\text{NDF}$ : 339336.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.106+/-0.000  $\chi^2/\text{NDF}$ : 321801.7/9

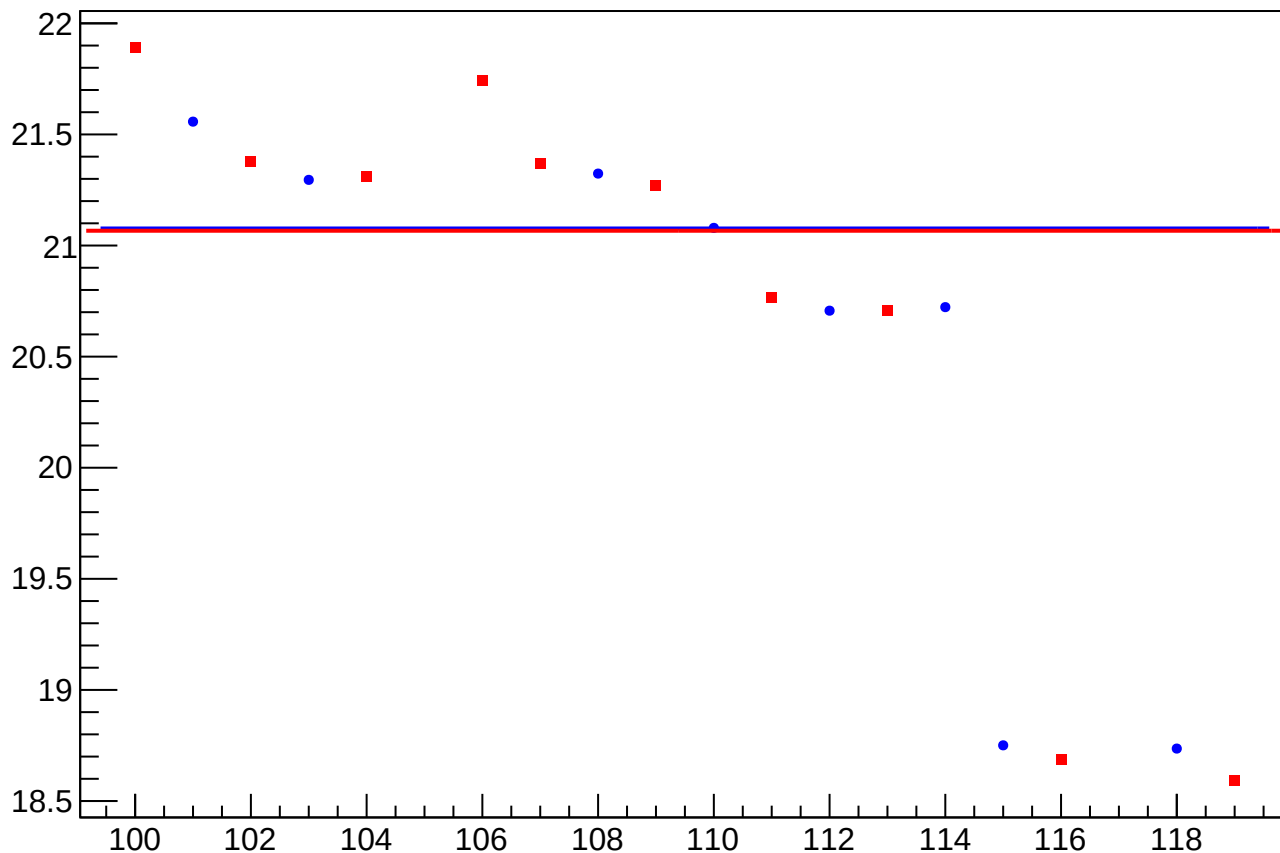
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.105+/-0.000  $\chi^2/\text{NDF}$ : 663150.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam5\_mean vs Slug



Right In: 21.077+/-0.000  $\chi^2/\text{NDF}$ : 2446477230.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.067+/-0.000  $\chi^2/\text{NDF}$ : 2935745506.1/9

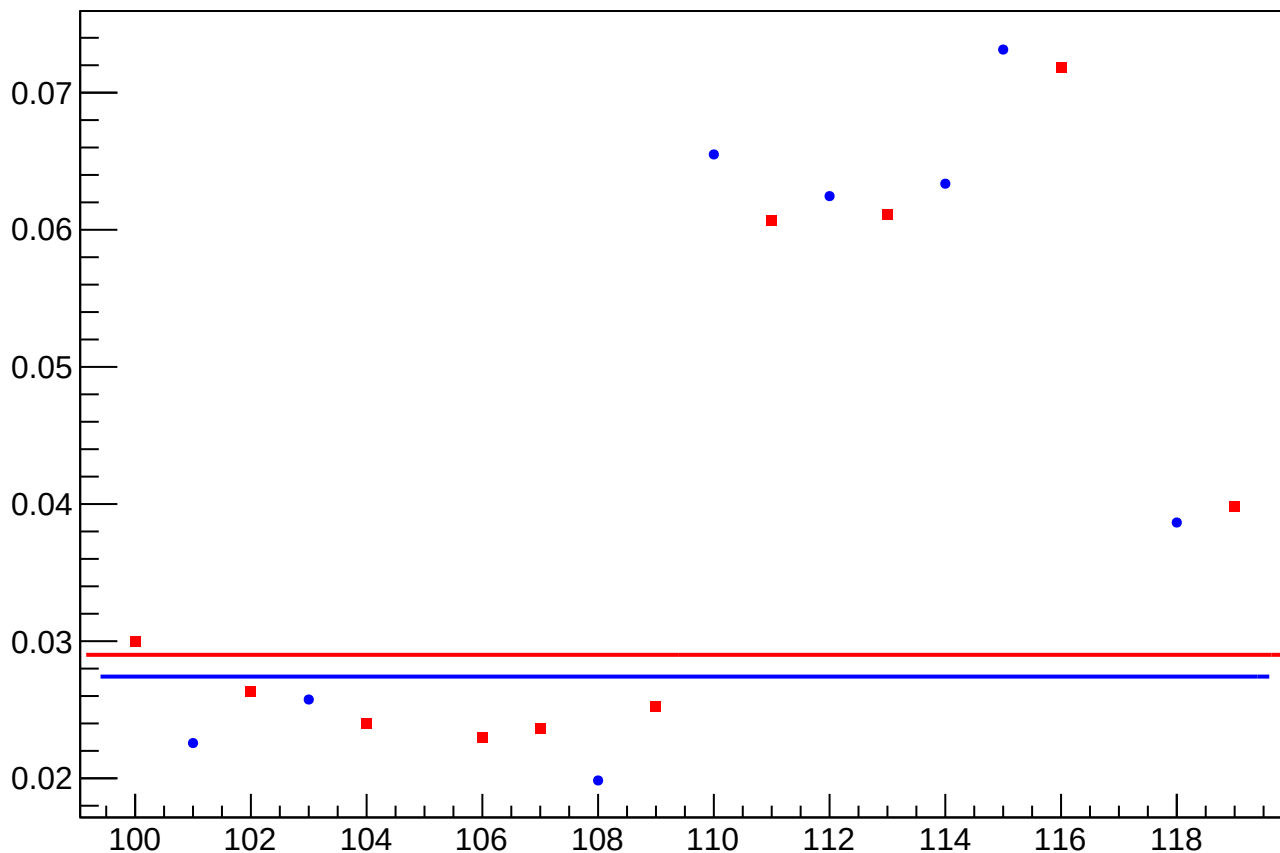
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.071+/-0.000  $\chi^2/\text{NDF}$ : 5382406497.0/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam5\_rms vs Slug



Right In: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 935424.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.029+/-0.000  $\chi^2/\text{NDF}$ : 864538.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

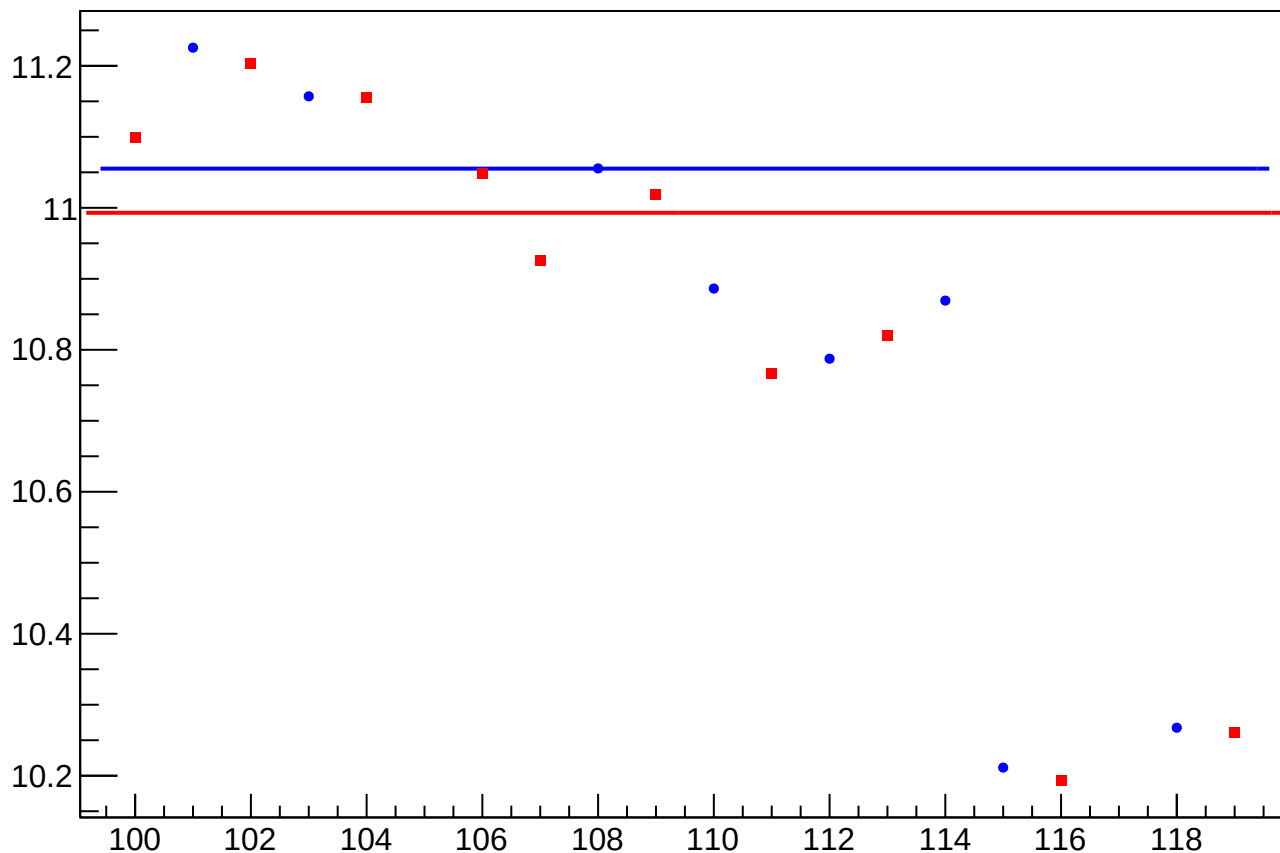
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.028+/-0.000  $\chi^2/\text{NDF}$ : 1809067.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_sam6\_mean vs Slug



Right In: 11.055+/-0.000  $\chi^2/\text{NDF}$ : 1222313780.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.993+/-0.000  $\chi^2/\text{NDF}$ : 1207576531.0/9

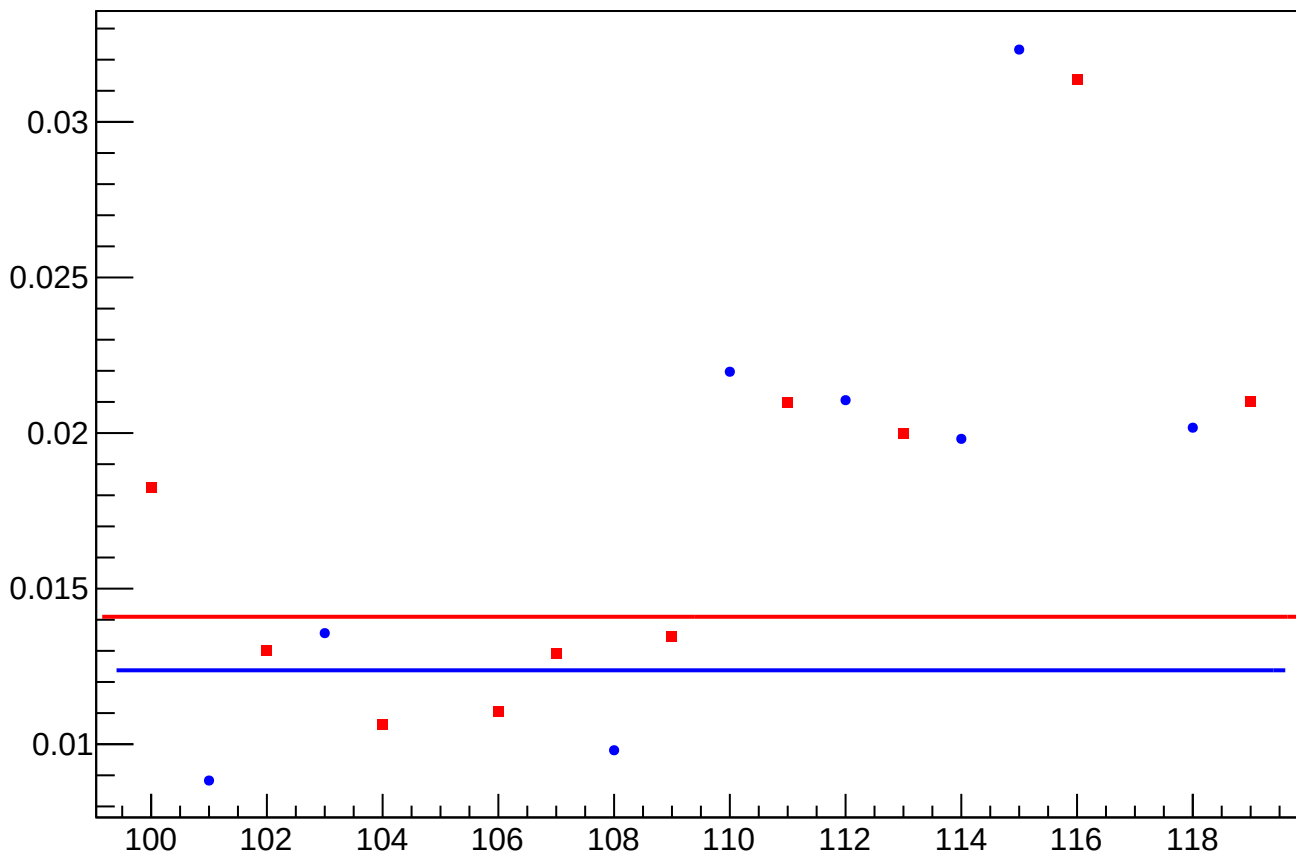
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11.024+/-0.000  $\chi^2/\text{NDF}$ : 2462948217.7/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam6\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 806947.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 601222.8/9

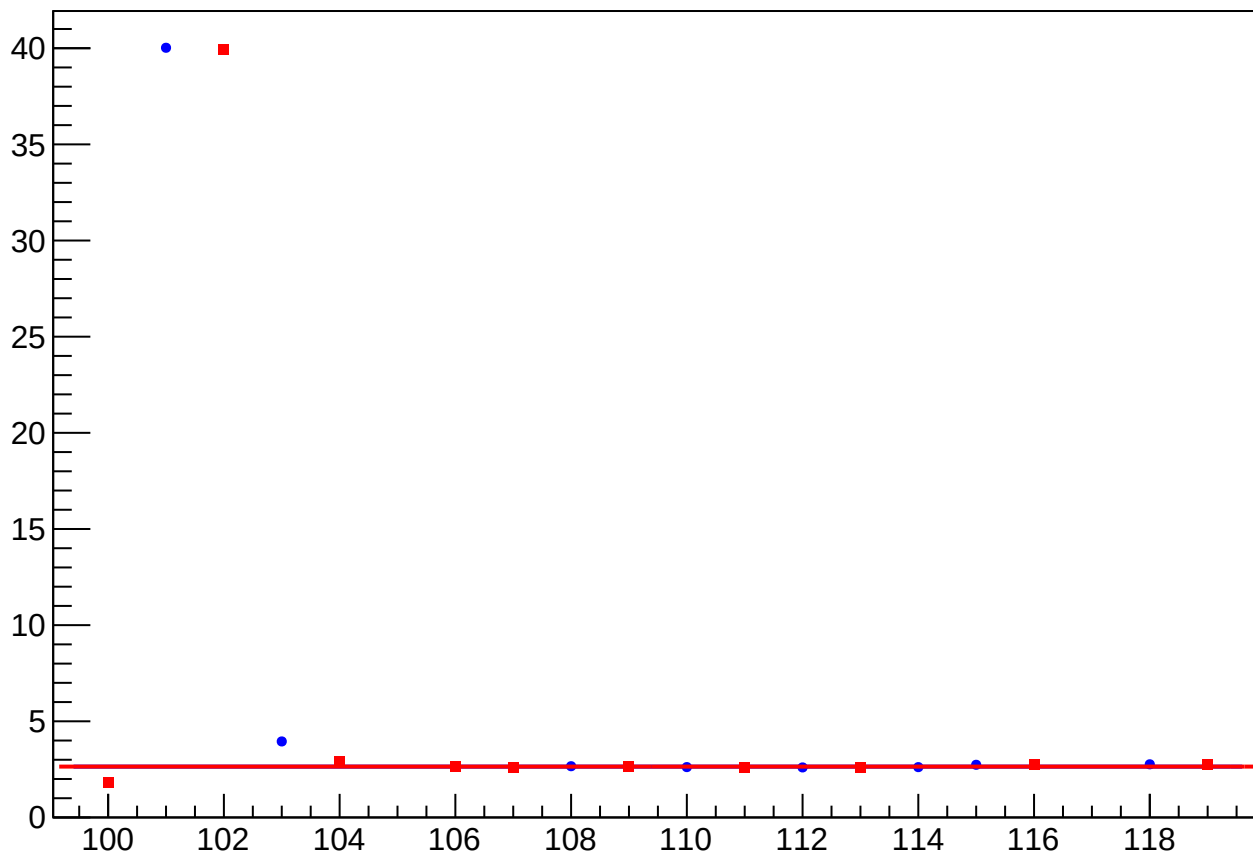
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 1458775.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam7\_mean vs Slug



Right In: 2.643+/-0.000  $\chi^2/\text{NDF}$ : 63703113429.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.645+/-0.000  $\chi^2/\text{NDF}$ : 62777088577.7/9

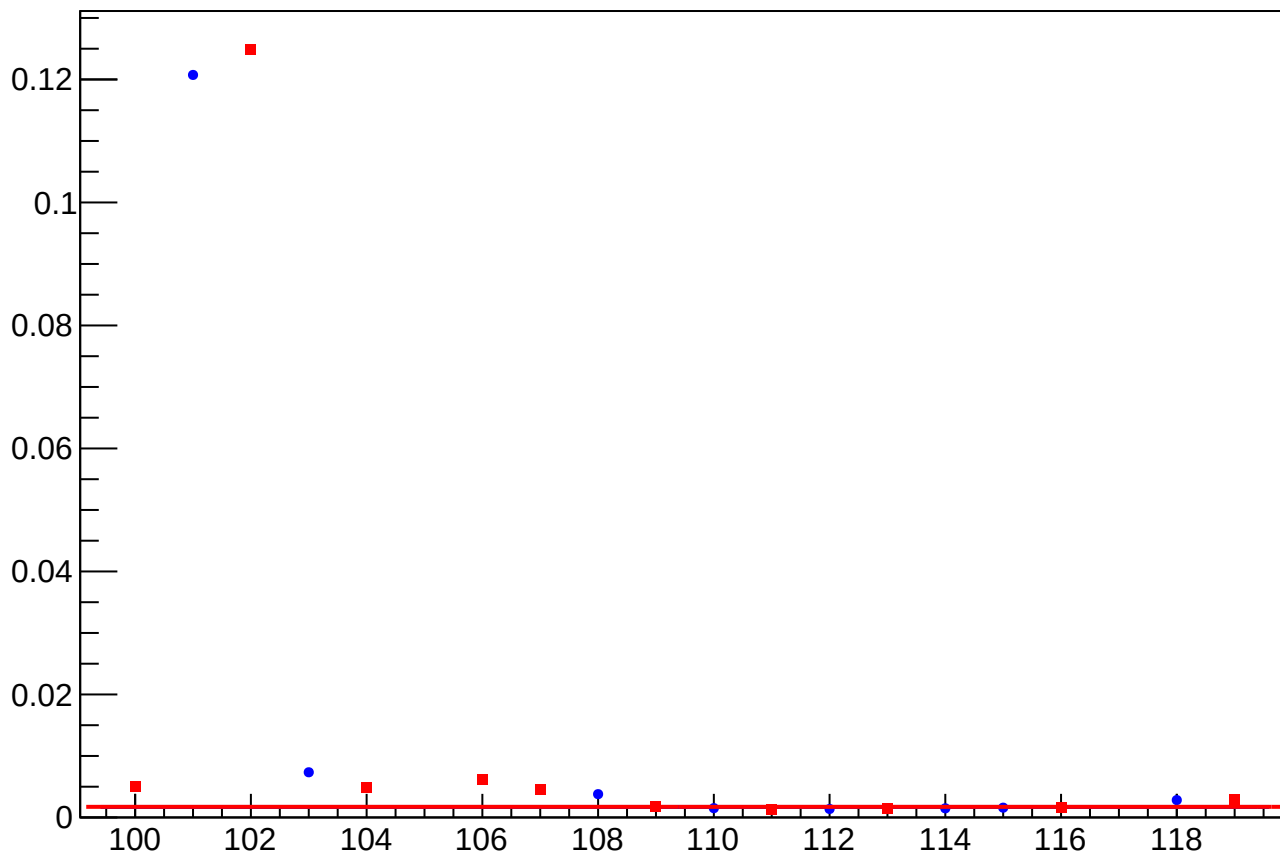
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.644+/-0.000  $\chi^2/\text{NDF}$ : 126480866595.9

- 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: 1696120.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 2299028.0/9

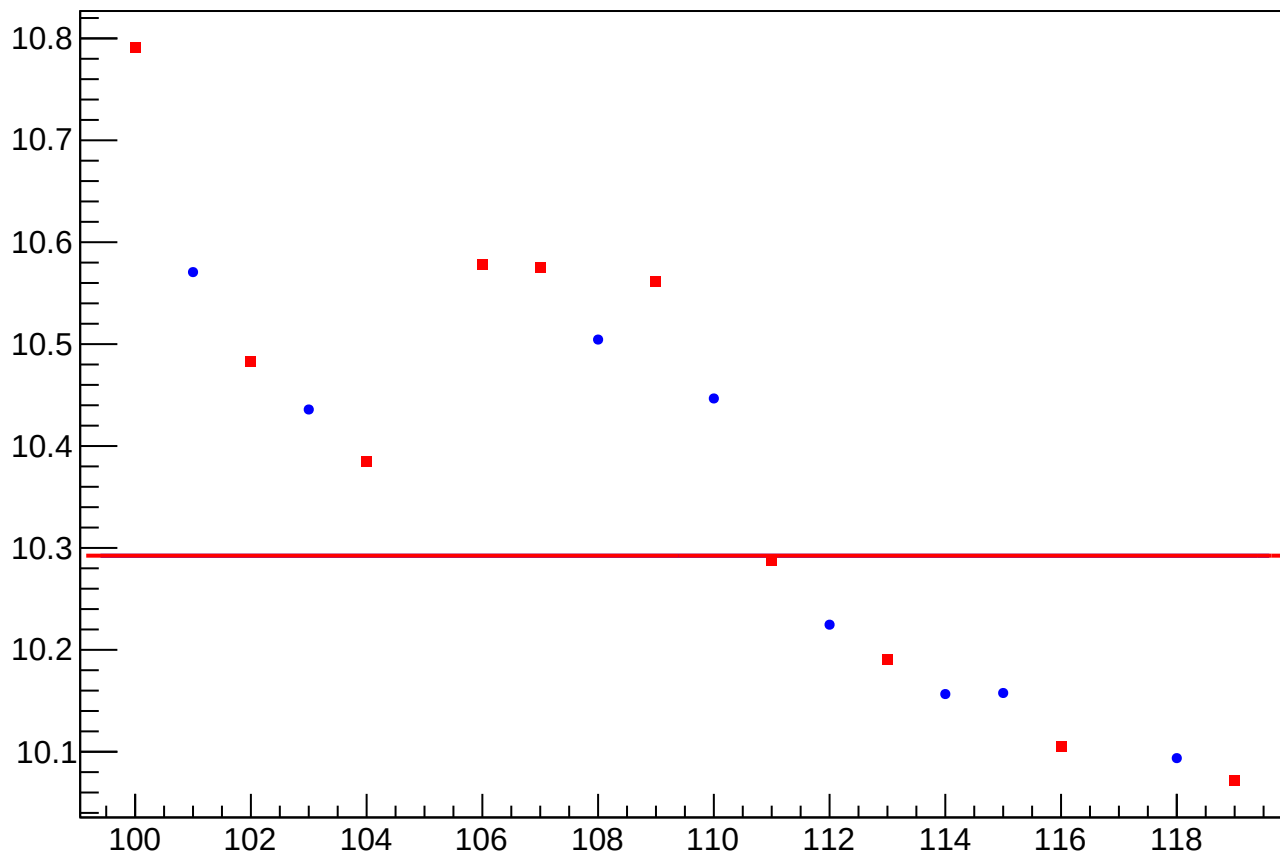
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 3995453.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_sam8\_mean vs Slug



Right In: 10.292+/-0.000  $\chi^2/\text{NDF}$ : 1977791955.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.292+/-0.000  $\chi^2/\text{NDF}$ : 3101512965.5/9

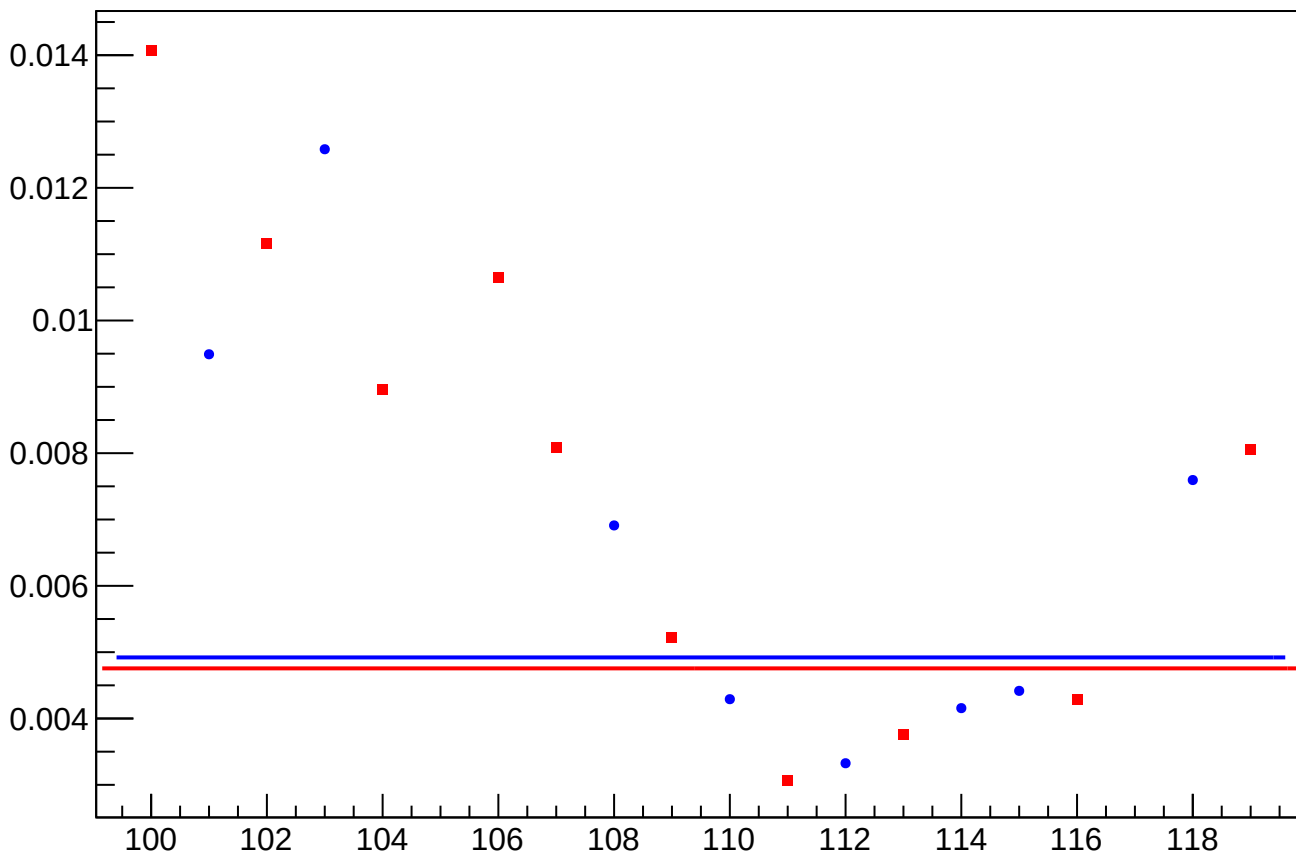
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.292+/-0.000  $\chi^2/\text{NDF}$ : 5079305263.8/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam8\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1084608.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1402371.3/9

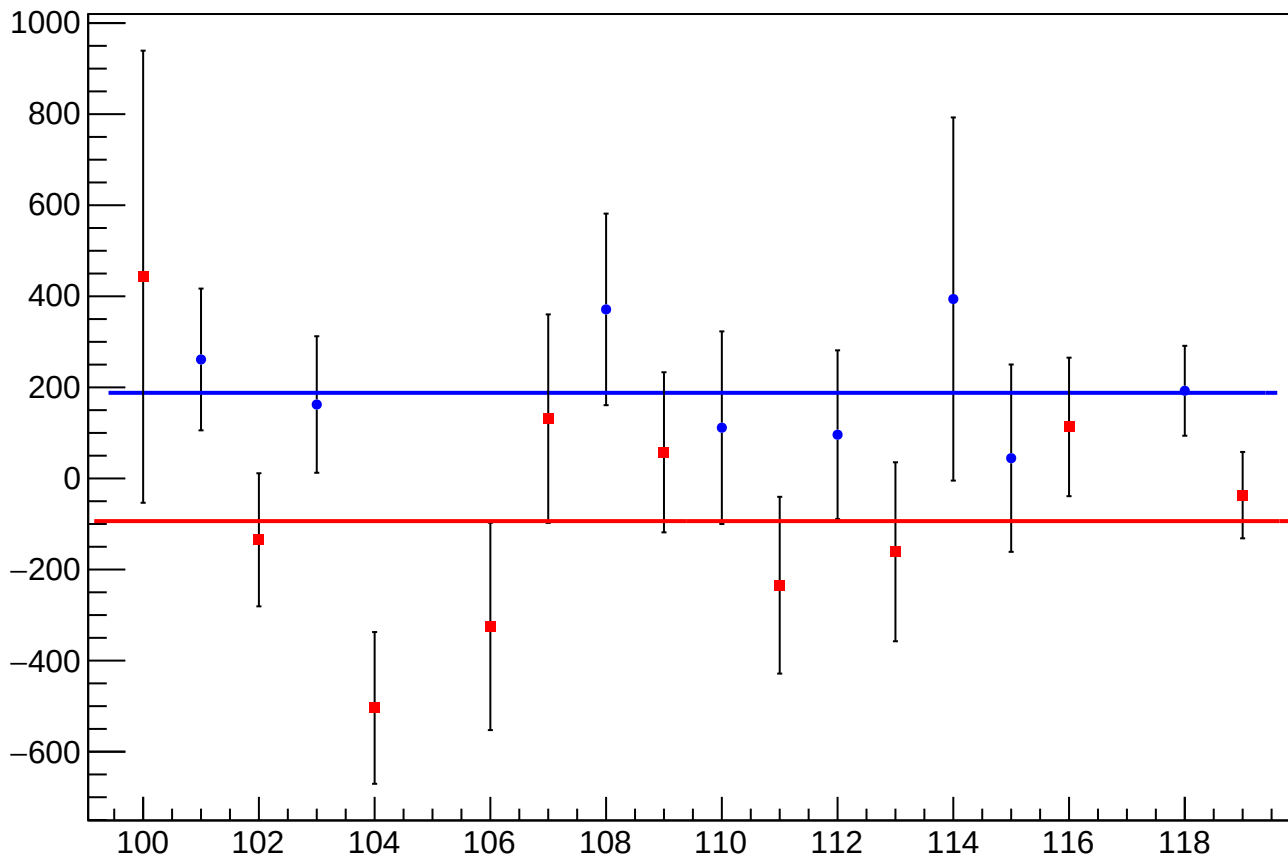
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2490037.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_mean vs Slug



Right In: 188.038 $\pm$ 58.484  $\chi^2$ /NDF: 2.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -93.654 $\pm$ 52.383  $\chi^2$ /NDF: 12.9/9

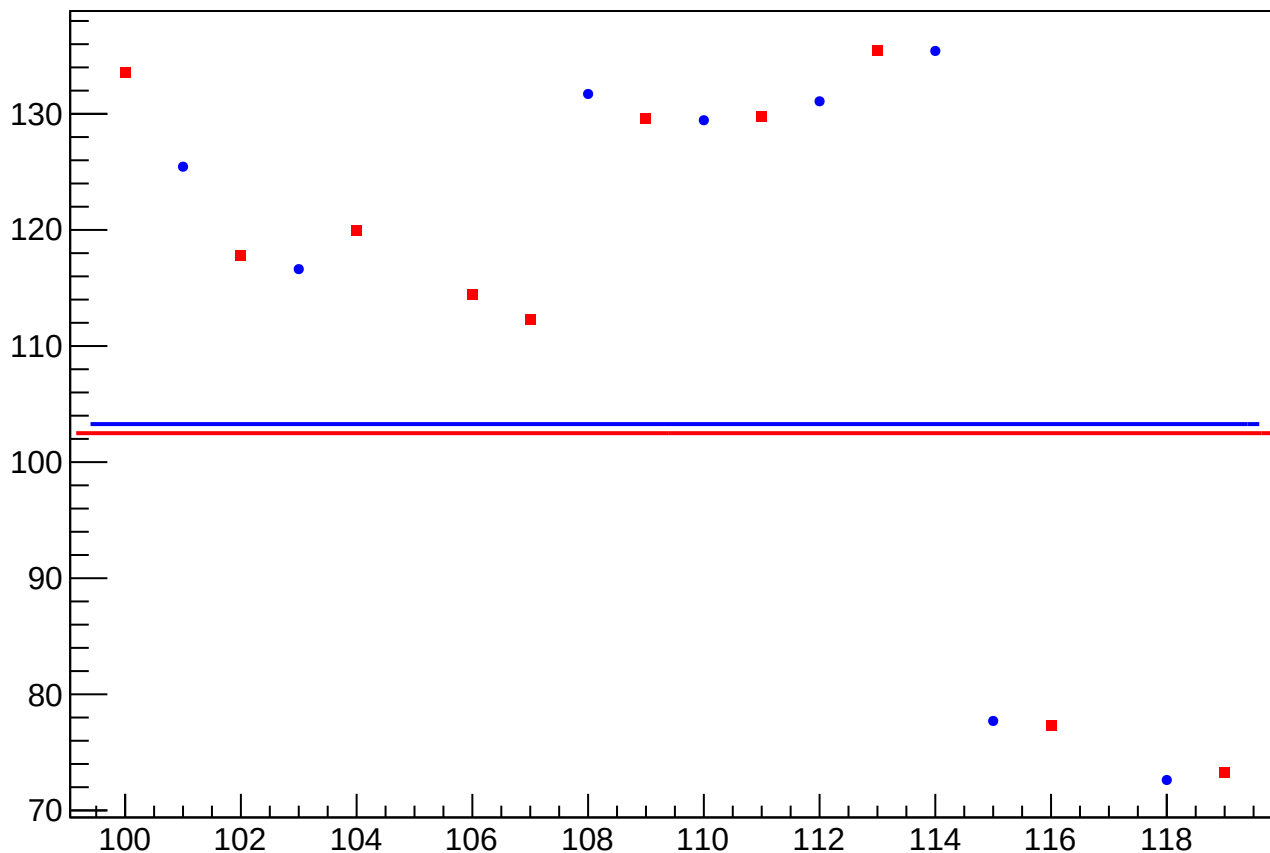
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.737 $\pm$ 39.020  $\chi^2$ /NDF: 27.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam1\_rms vs Slug



Right In: 103.277 $\pm$ 0.041  $\chi^2$ /NDF: 405358.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 102.494 $\pm$ 0.037  $\chi^2$ /NDF: 449122.7/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

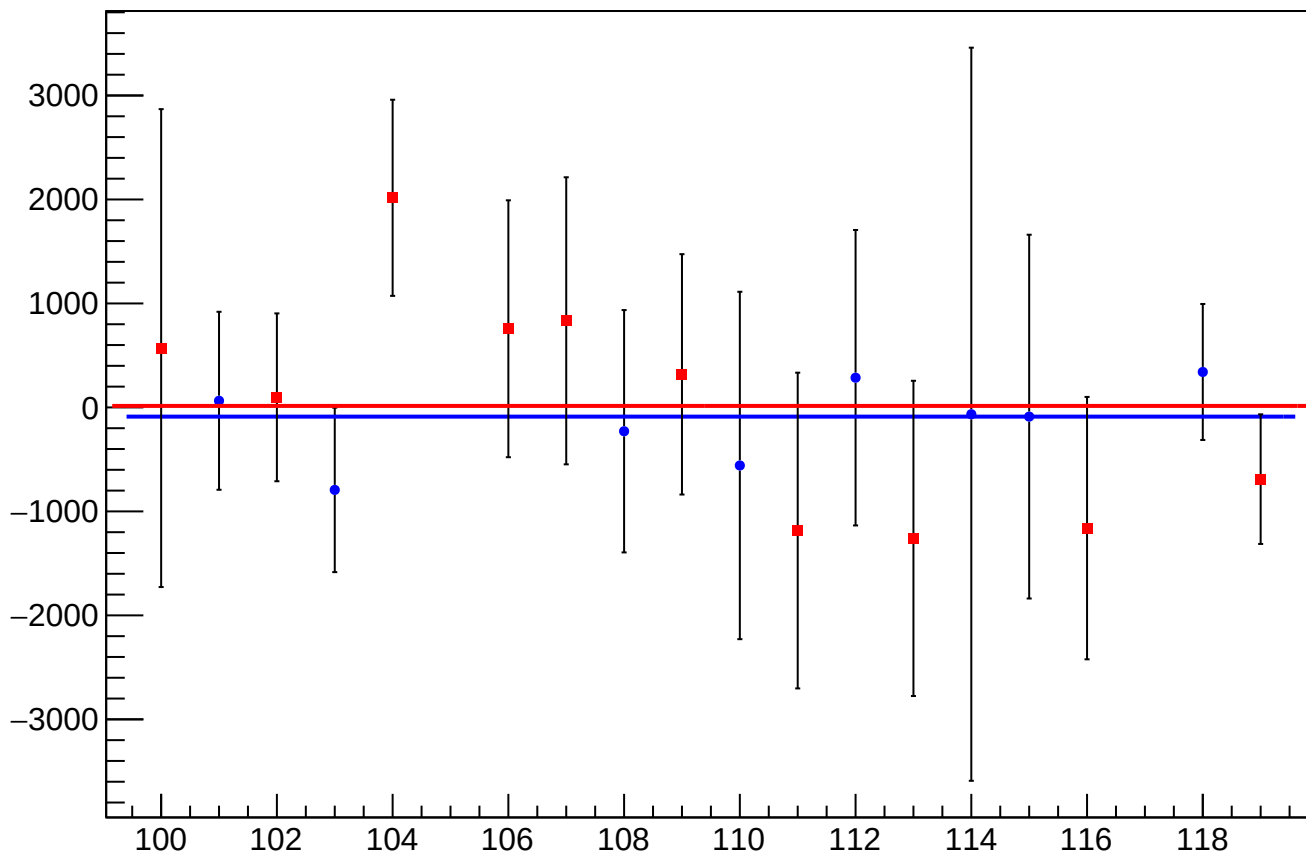
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 102.842 $\pm$ 0.028  $\chi^2$ /NDF: 854680.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam1\_reg\_correction\_mean vs Slug



Right In:  $-88.434 \pm 370.135$   $\chi^2/\text{NDF}$ : 1.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $14.464 \pm 336.197$   $\chi^2/\text{NDF}$ : 8.8/9

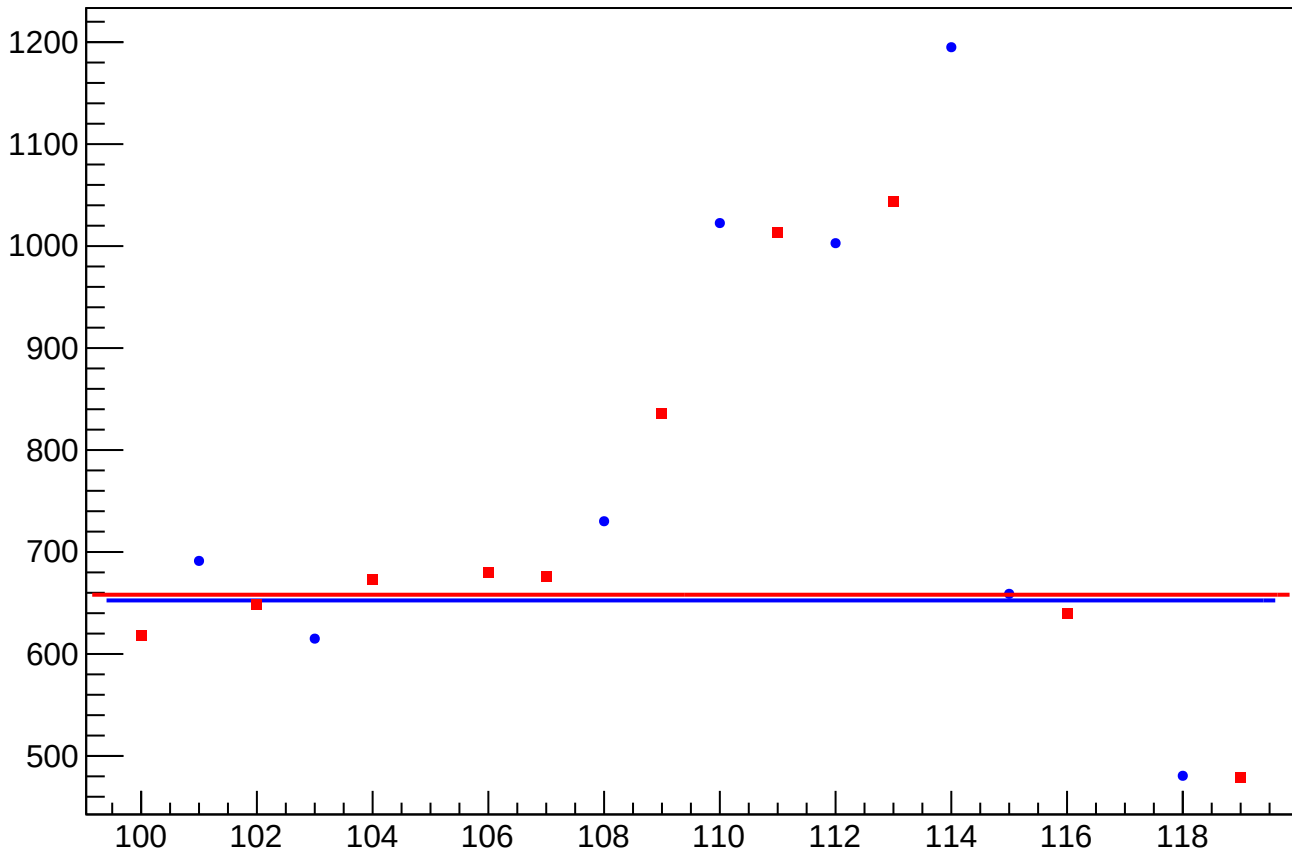
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-32.053 \pm 248.862$   $\chi^2/\text{NDF}$ : 10.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_reg\_correction\_rms vs Slug



Right In: 652.515 $\pm$ 0.262  $\chi^2$ /NDF: 422906.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 658.110 $\pm$ 0.238  $\chi^2$ /NDF: 453730.1/9

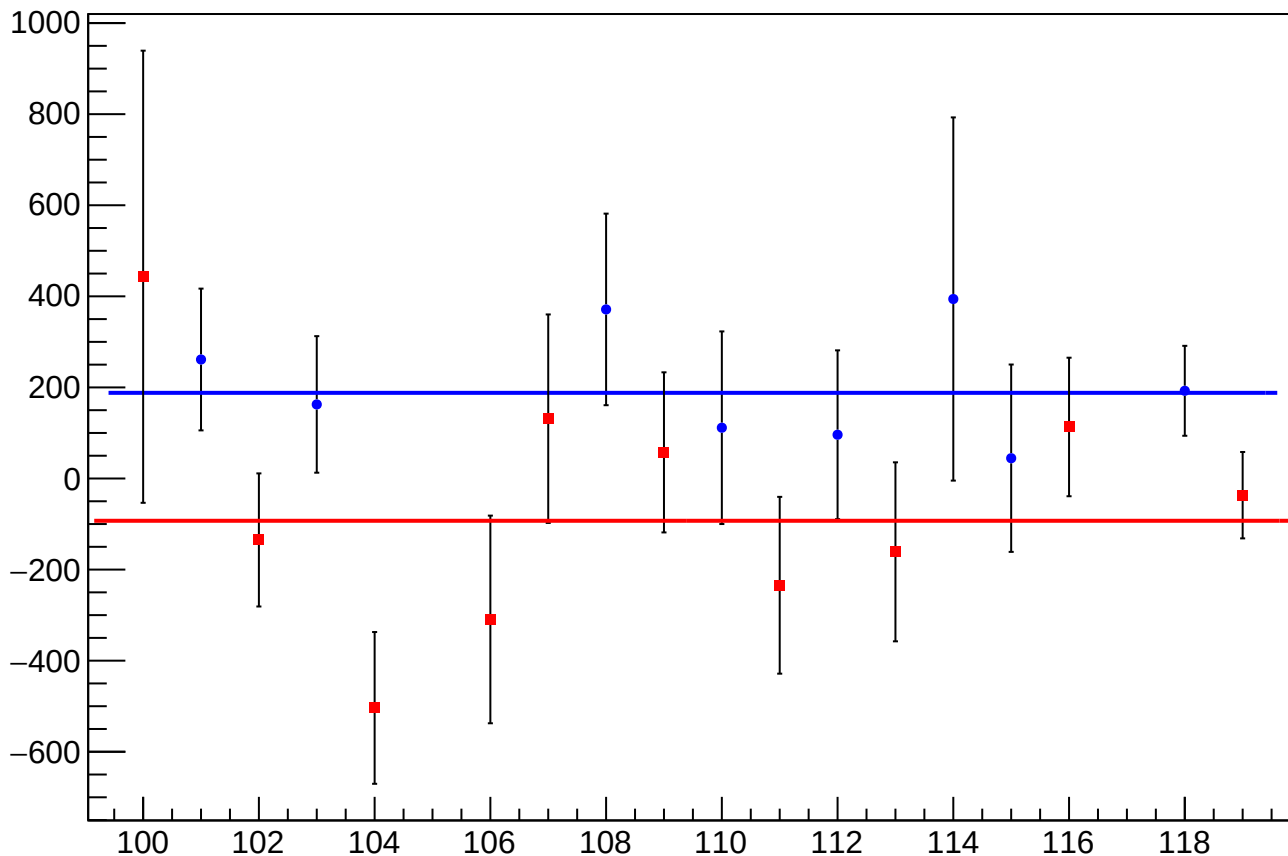
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 655.581 $\pm$ 0.176  $\chi^2$ /NDF: 876886.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam1\_mean vs Slug



Right In: 188.093 $\pm$ 58.484  $\chi^2$ /NDF: 2.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -92.828 $\pm$ 52.388  $\chi^2$ /NDF: 12.8/9

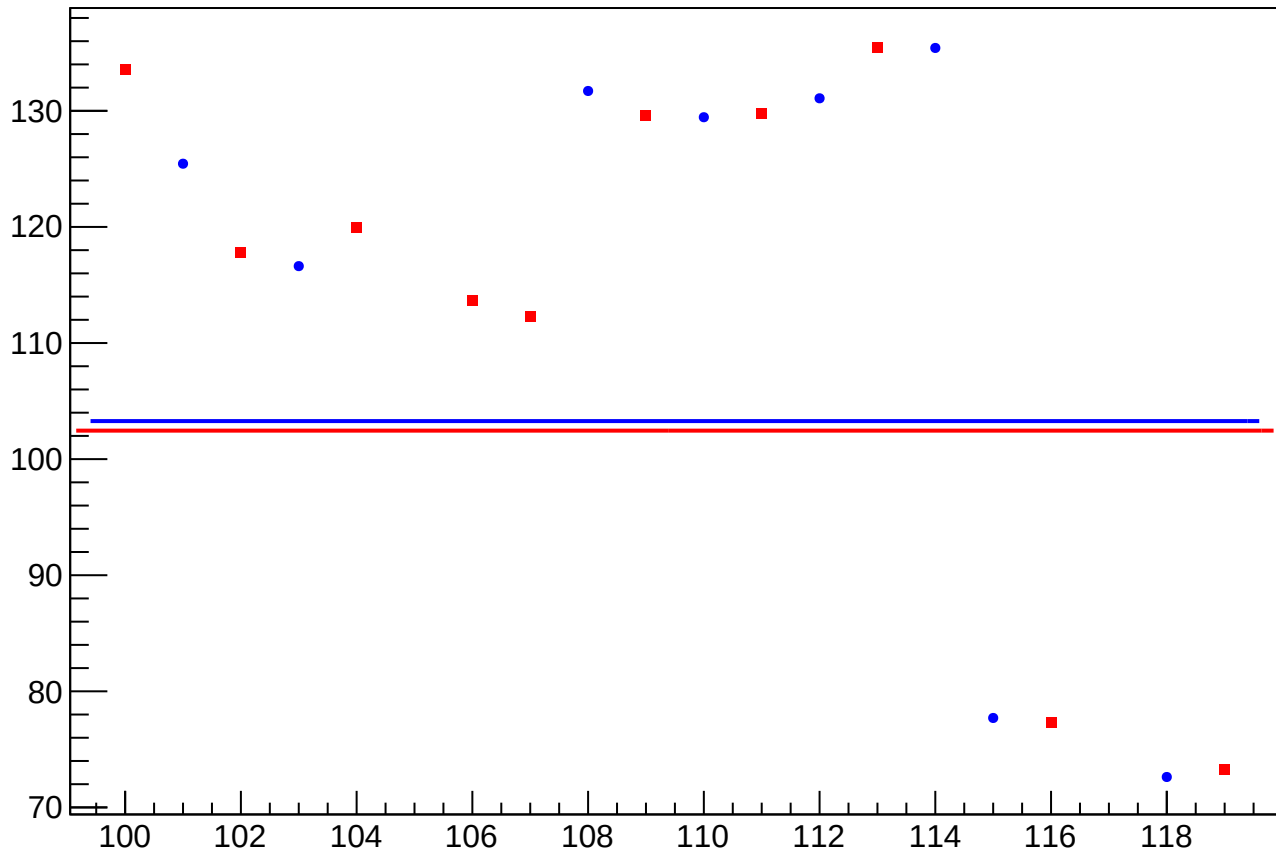
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 32.231 $\pm$ 39.022  $\chi^2$ /NDF: 27.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam1\_rms vs Slug



Right In:  $103.277 \pm 0.041$   $\chi^2/\text{NDF}: 405358.7/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $102.454 \pm 0.037$   $\chi^2/\text{NDF}: 448479.6/9$

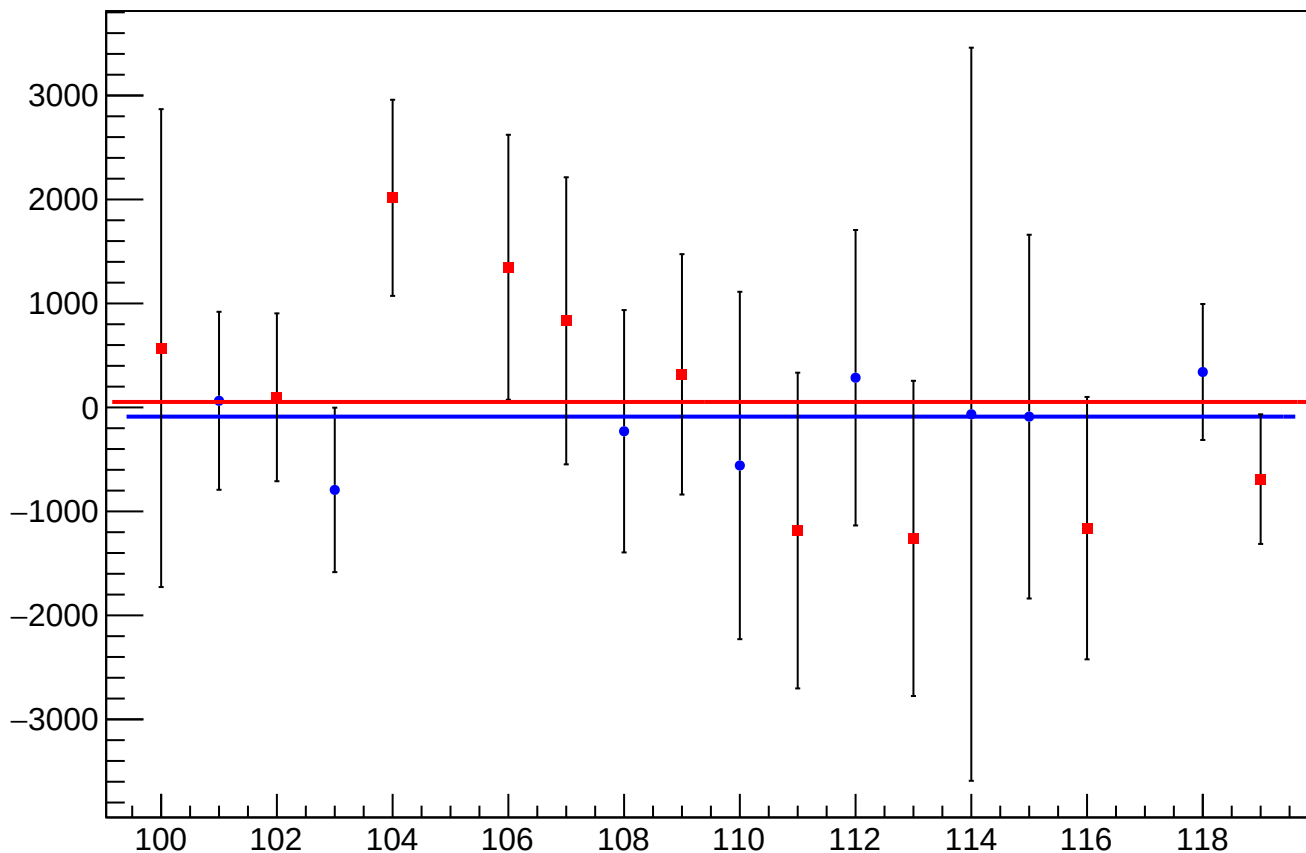
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $102.820 \pm 0.028$   $\chi^2/\text{NDF}: 854057.7/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# asym\_sam1\_cor\_correction\_mean vs Slug



Right In:  $-88.425 \pm 370.135$   $\chi^2/\text{NDF}$ : 1.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $52.623 \pm 336.948$   $\chi^2/\text{NDF}$ : 9.6/9

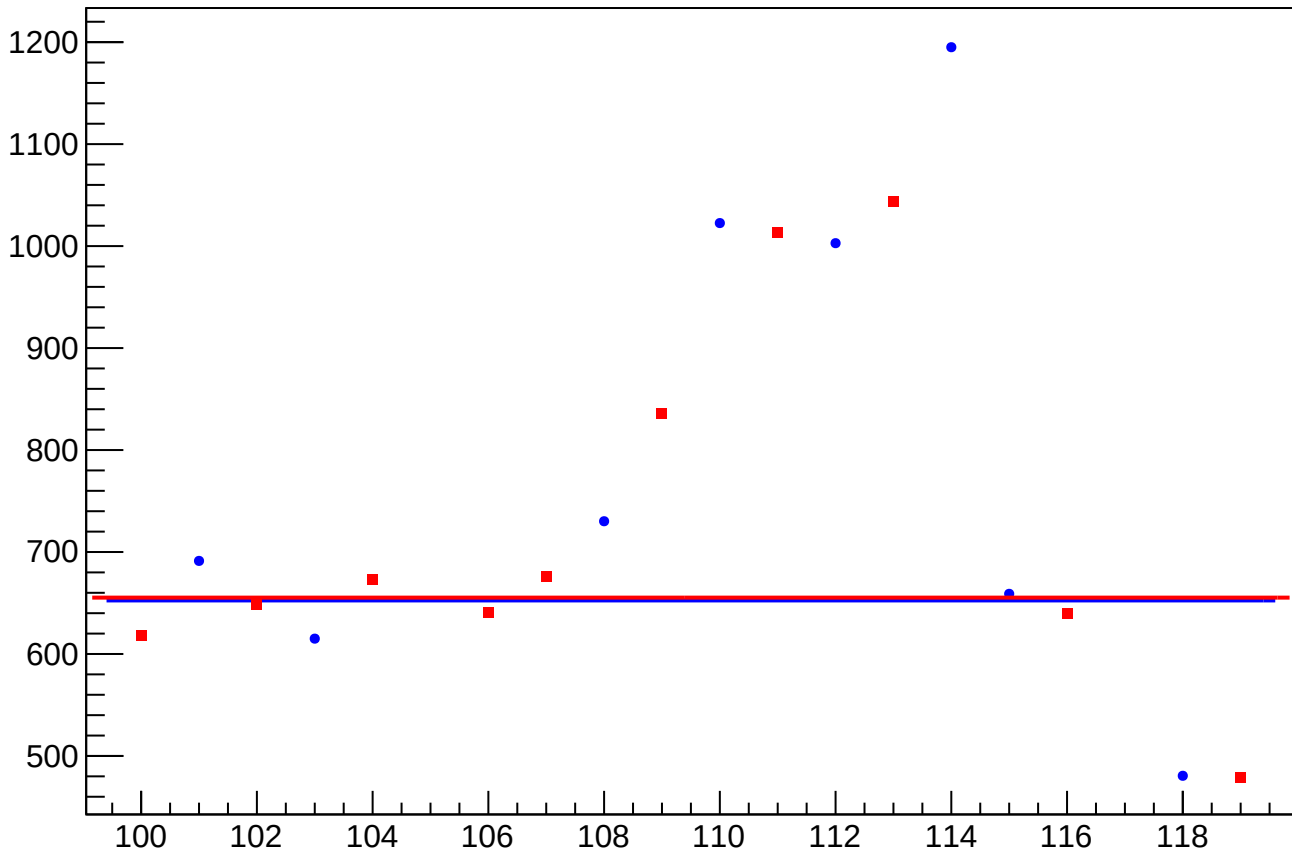
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-11.295 \pm 249.167$   $\chi^2/\text{NDF}$ : 11.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_cor\_correction\_rms vs Slug



Right In: 652.514 $\pm$ 0.262  $\chi^2$ /NDF: 422907.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 655.271 $\pm$ 0.238  $\chi^2$ /NDF: 453369.7/9

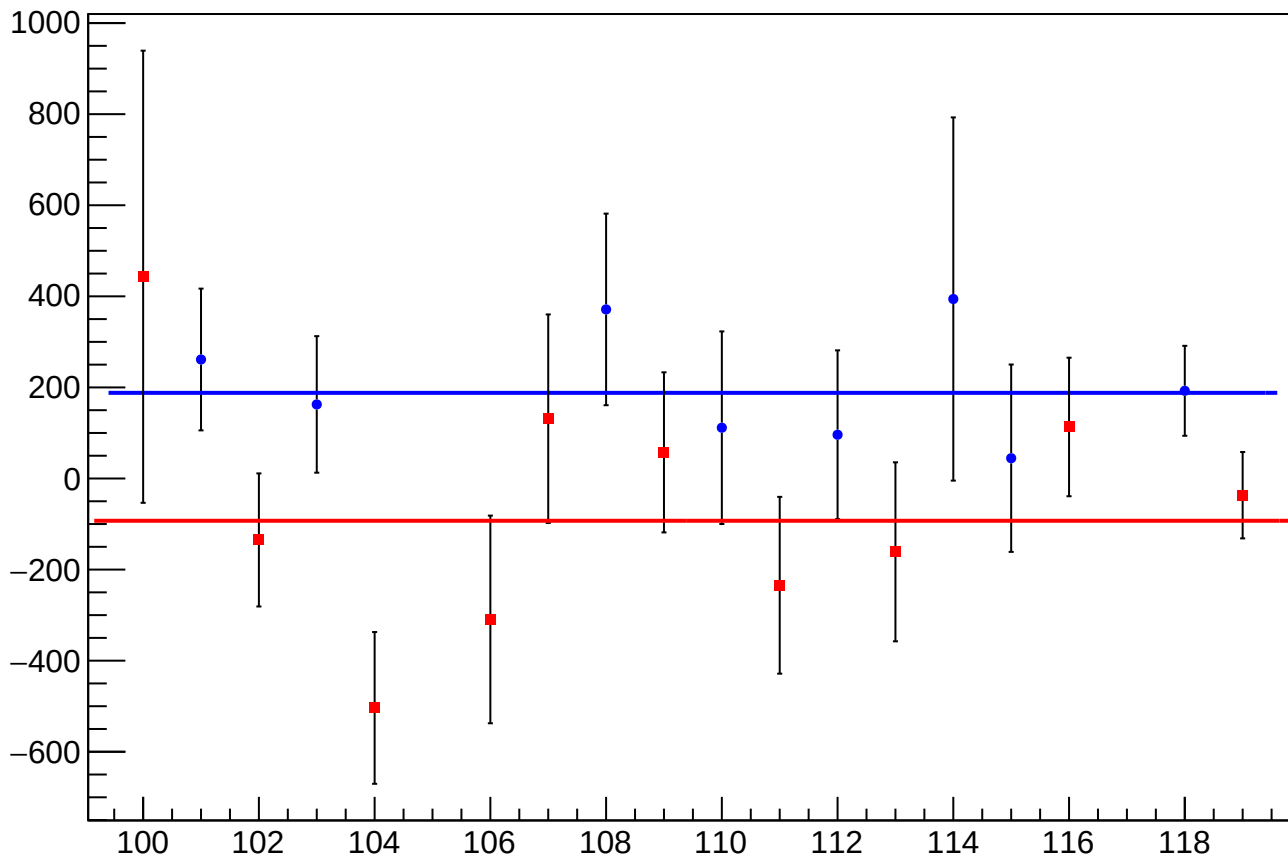
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 654.022 $\pm$ 0.176  $\chi^2$ /NDF: 876337.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam1\_mean vs Slug



Right In: 188.093 $\pm$ 58.484  $\chi^2$ /NDF: 2.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -92.828 $\pm$ 52.388  $\chi^2$ /NDF: 12.8/9

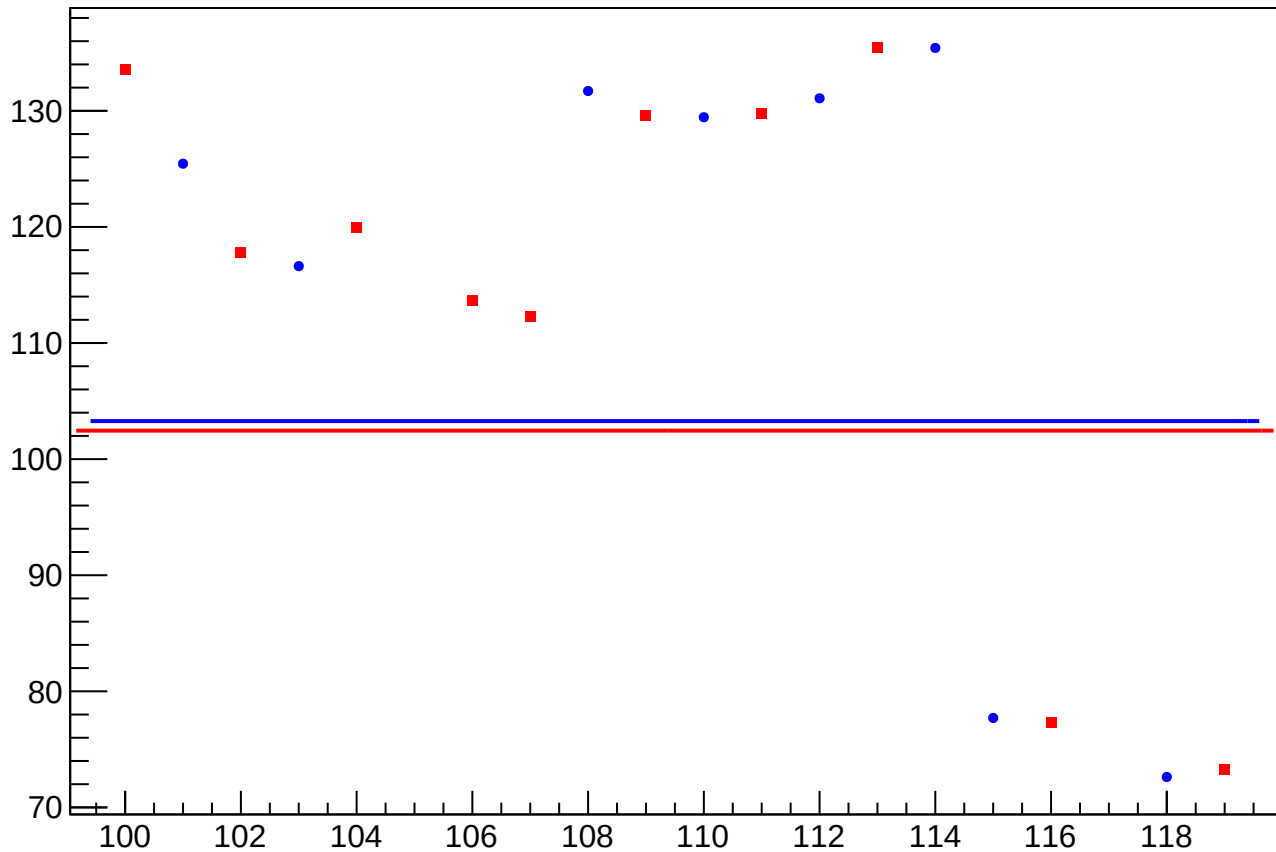
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 32.231 $\pm$ 39.022  $\chi^2$ /NDF: 27.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam1\_rms vs Slug



Right In: 103.277 $\pm$ 0.041  $\chi^2$ /NDF: 405358.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 102.454 $\pm$ 0.037  $\chi^2$ /NDF: 448479.6/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

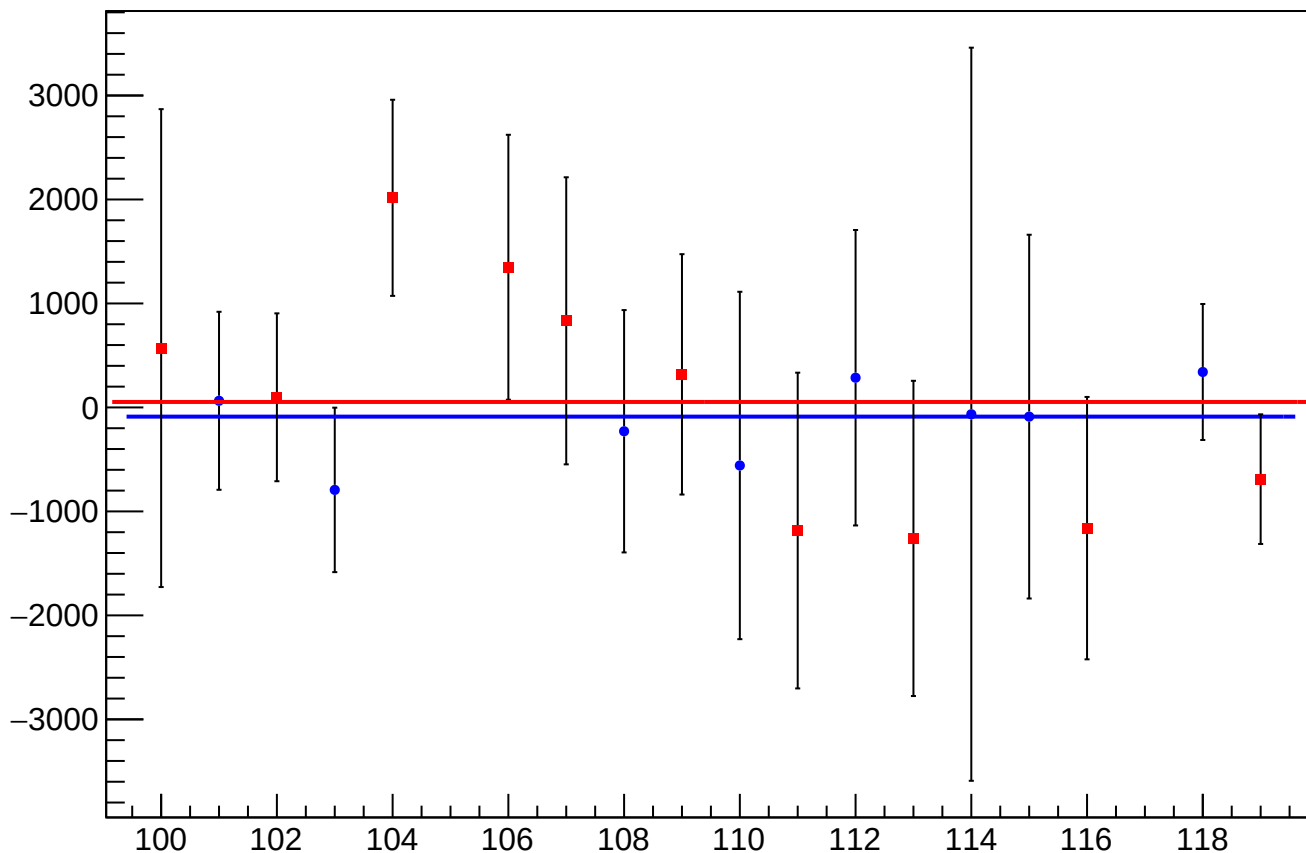
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 102.820 $\pm$ 0.028  $\chi^2$ /NDF: 854057.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam1\_eigen\_cor\_correction\_mean vs Slug



Right In: -88.425 $\pm$ 370.135  $\chi^2$ /NDF: 1.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 52.623 $\pm$ 336.948  $\chi^2$ /NDF: 9.6/9

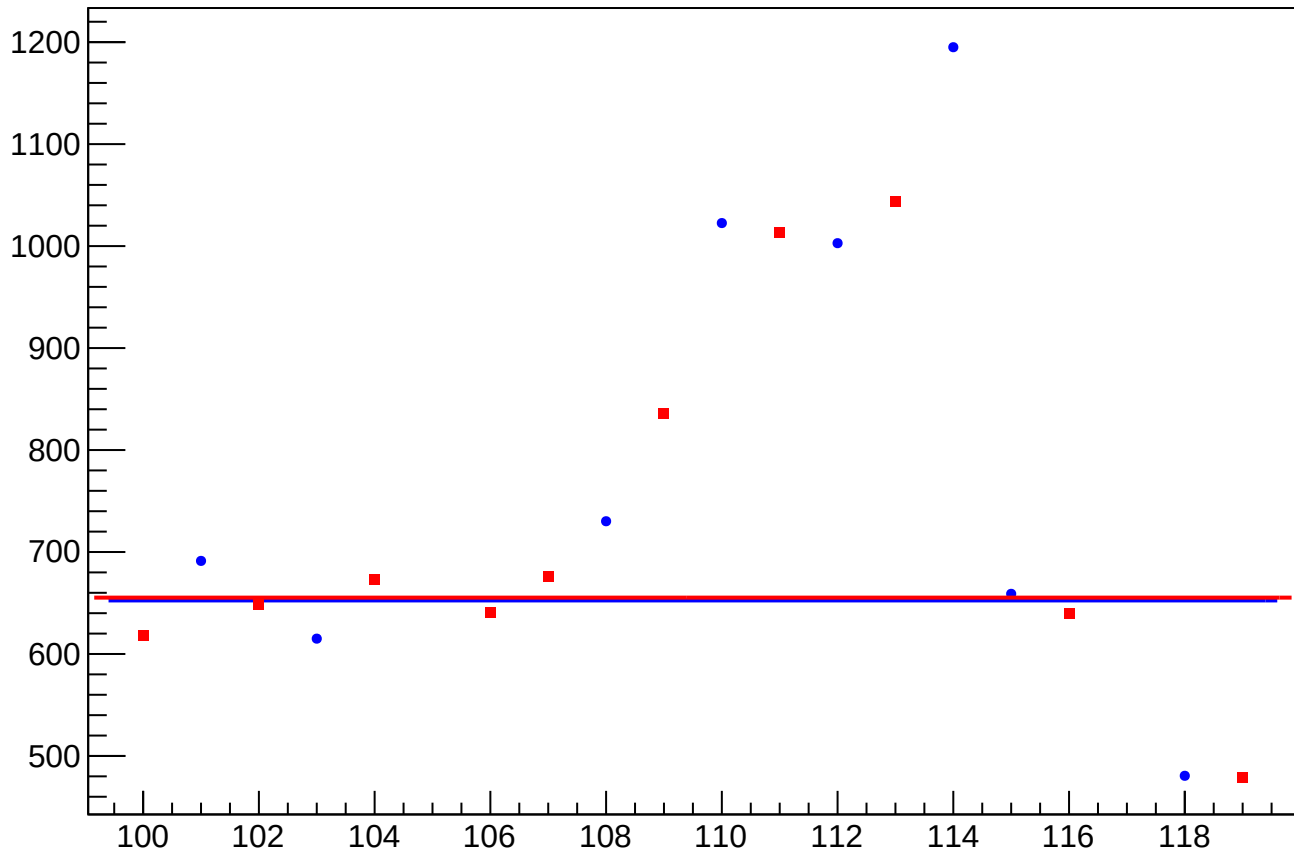
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -11.295 $\pm$ 249.167  $\chi^2$ /NDF: 11.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_eigen\_cor\_correction\_rms vs Slug



Right In: 652.514 $\pm$ 0.262  $\chi^2/\text{NDF}$ : 422907.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 655.271 $\pm$ 0.238  $\chi^2/\text{NDF}$ : 453369.7/9

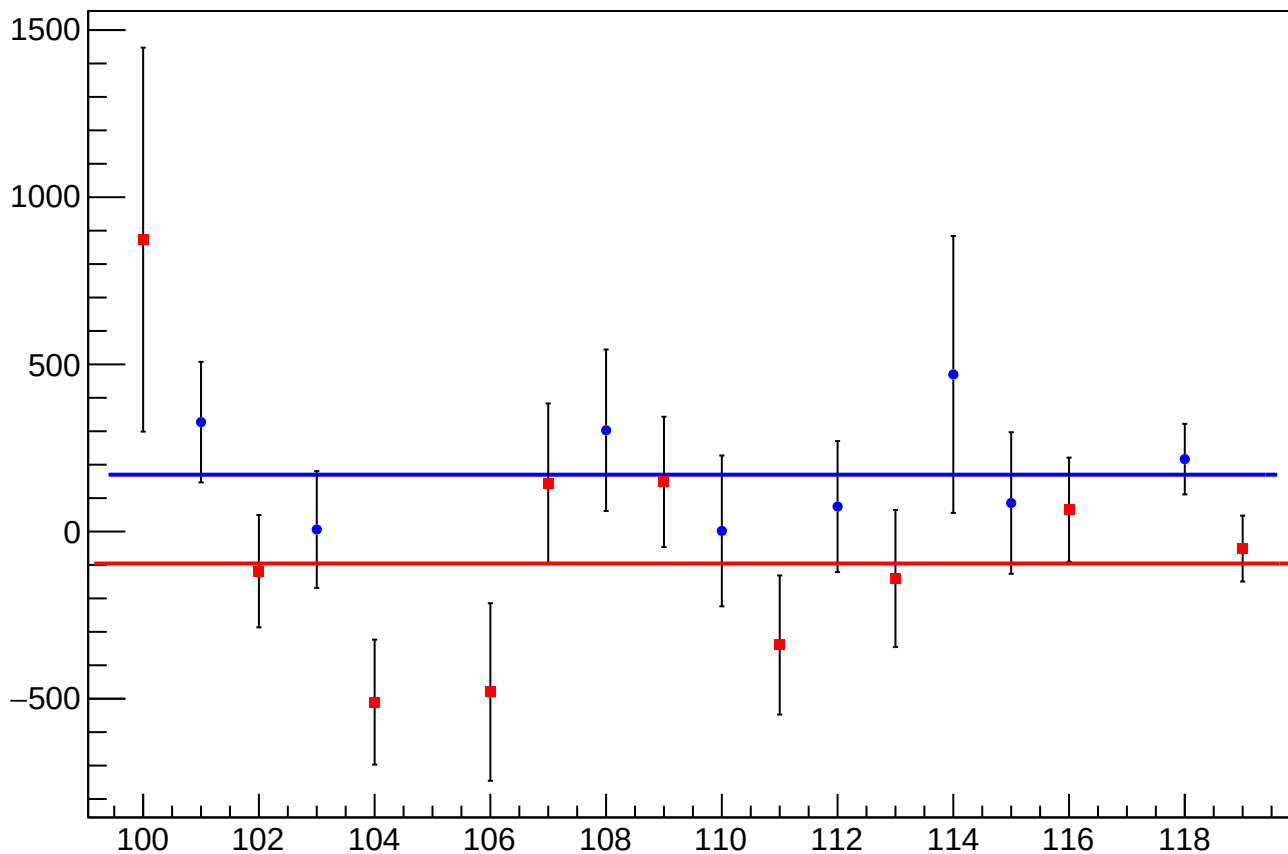
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 654.022 $\pm$ 0.176  $\chi^2/\text{NDF}$ : 876337.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam1\_mean vs Slug



Right In: 170.034 $\pm$ 63.983  $\chi^2$ /NDF: 3.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -95.629 $\pm$ 56.233  $\chi^2$ /NDF: 15.2/9

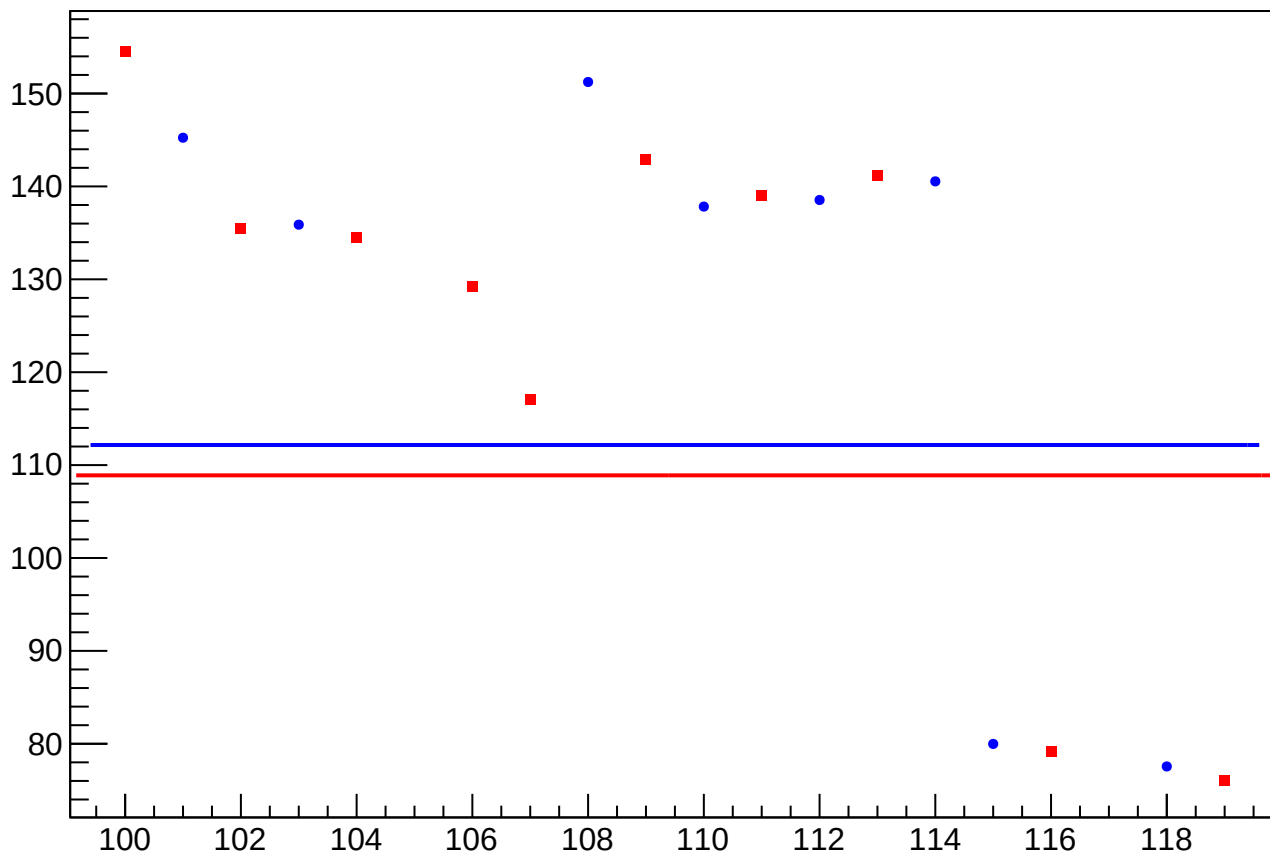
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 20.147 $\pm$ 42.239  $\chi^2$ /NDF: 28.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam1\_rms vs Slug



Right In: 112.164 $\pm$ 0.045  $\chi^2$ /NDF: 489238.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 108.896 $\pm$ 0.040  $\chi^2$ /NDF: 561106.9/9

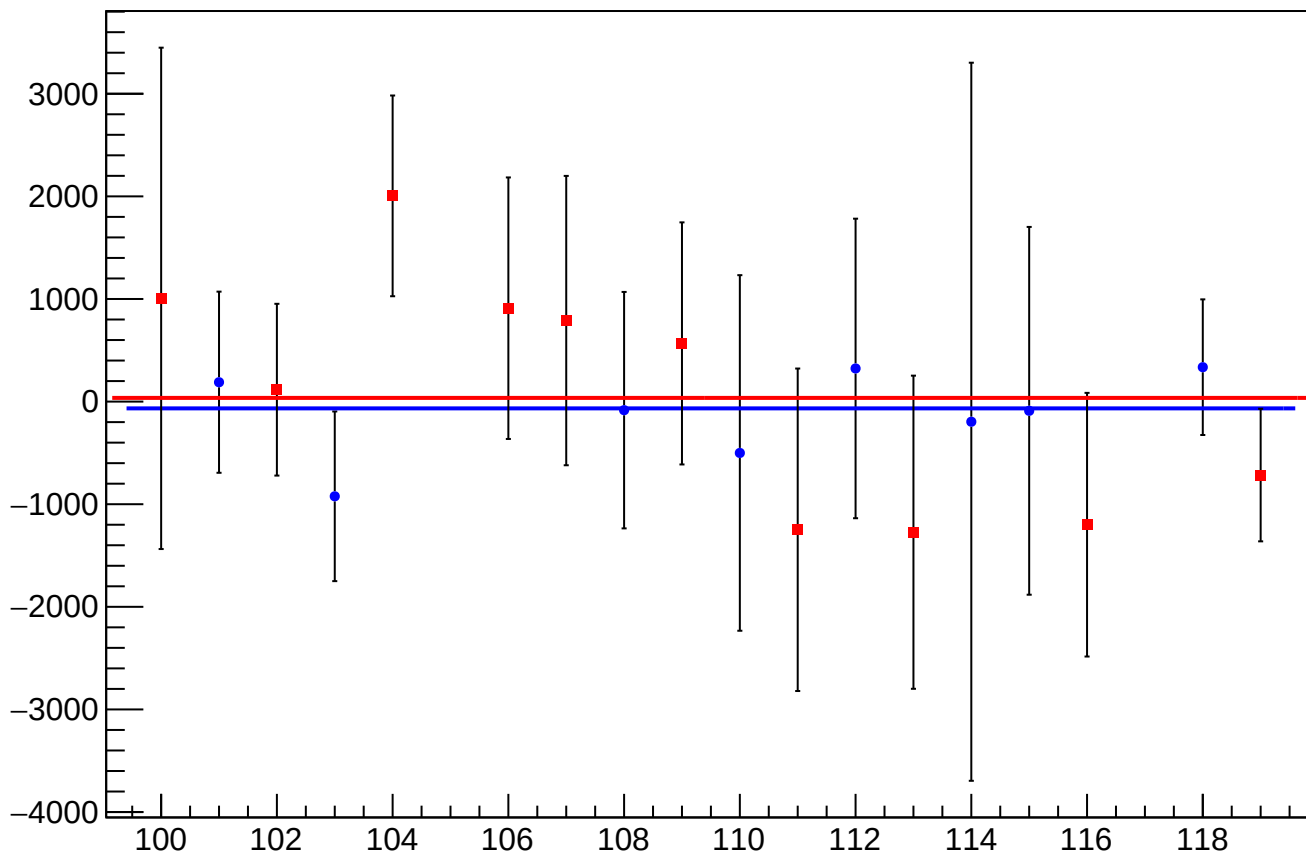
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.320 $\pm$ 0.030  $\chi^2$ /NDF: 1053287.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_dit\_correction\_mean vs Slug



Right In: -66.130 $\pm$ 378.372  $\chi^2$ /NDF: 1.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.031 $\pm$ 346.808  $\chi^2$ /NDF: 8.9/9

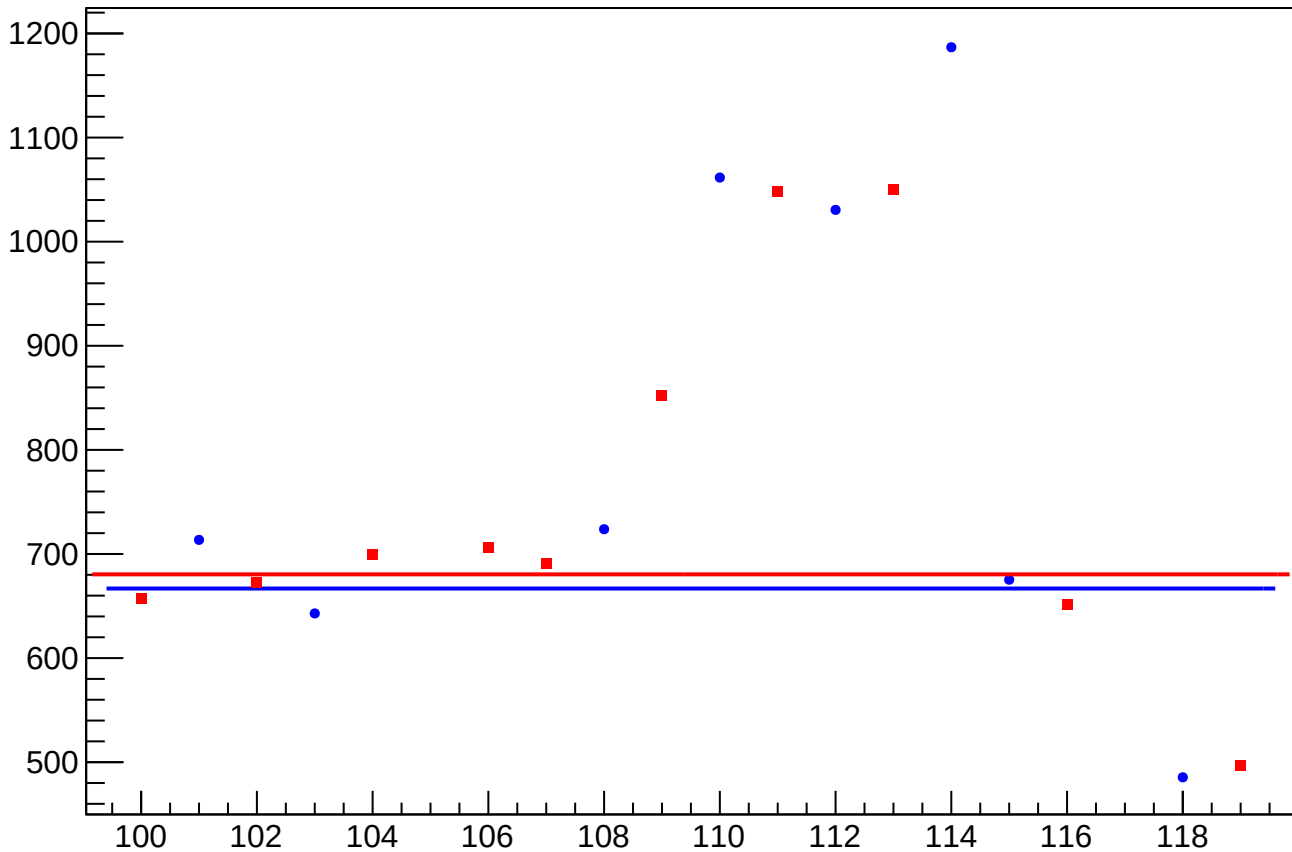
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -10.611 $\pm$ 255.662  $\chi^2$ /NDF: 10.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_dit\_correction\_rms vs Slug



Right In: 666.823+/-0.268  $\chi^2/\text{NDF}$ : 434986.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 680.423+/-0.245  $\chi^2/\text{NDF}$ : 434576.0/9

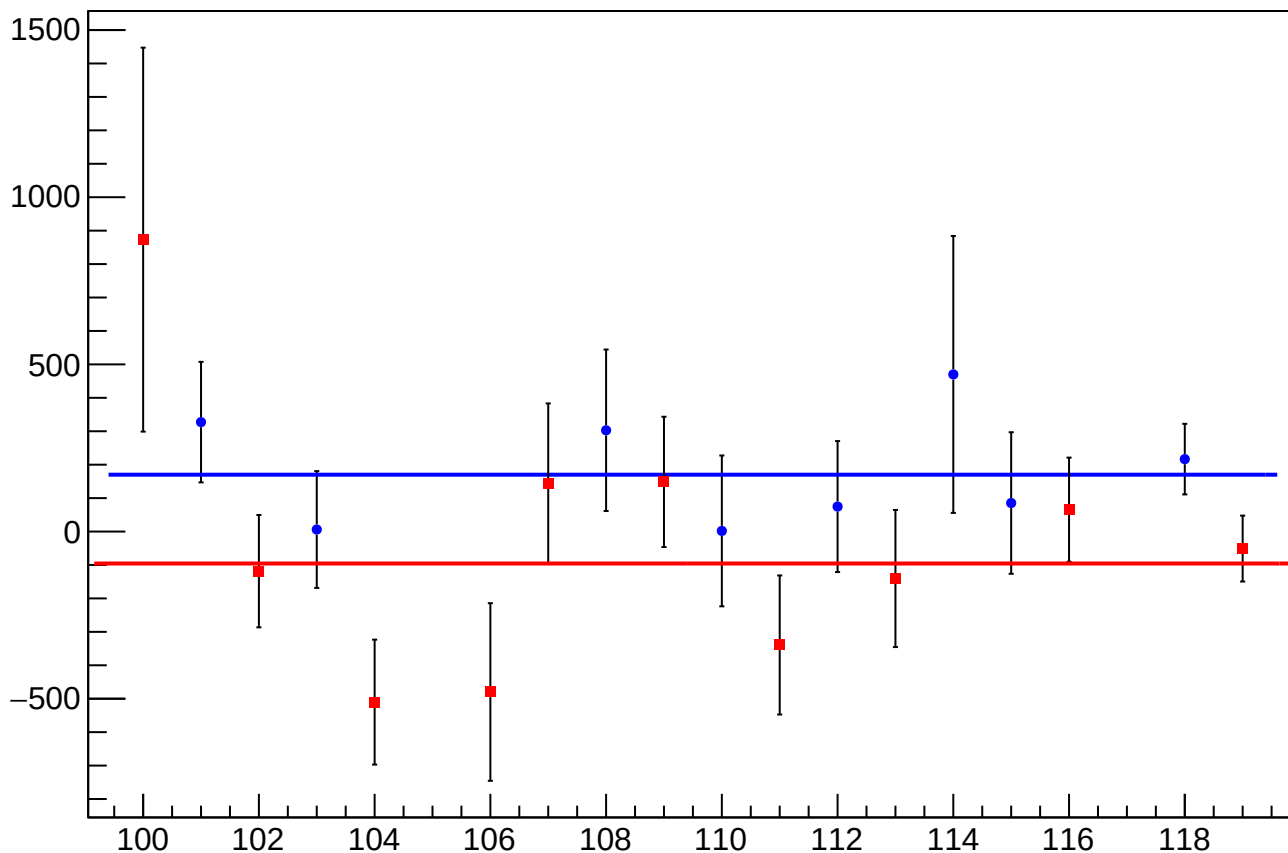
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 674.214+/-0.181  $\chi^2/\text{NDF}$ : 870966.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam1\_mean vs Slug



Right In: 170.034 $\pm$ 63.983  $\chi^2$ /NDF: 3.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -95.627 $\pm$ 56.233  $\chi^2$ /NDF: 15.2/9

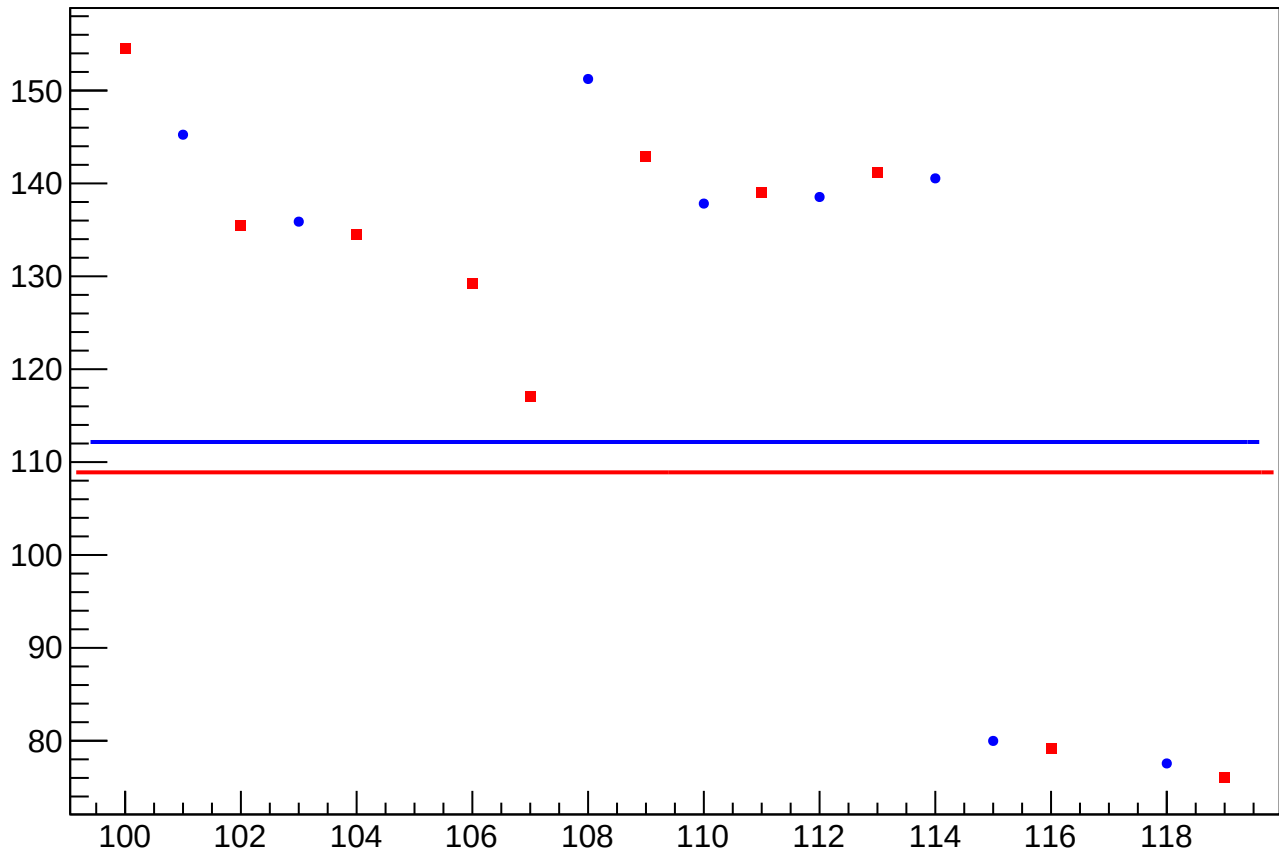
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 20.148 $\pm$ 42.239  $\chi^2$ /NDF: 28.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam1\_rms vs Slug



Right In: 112.164 $\pm$ 0.045  $\chi^2$ /NDF: 489238.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 108.896 $\pm$ 0.040  $\chi^2$ /NDF: 561108.6/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

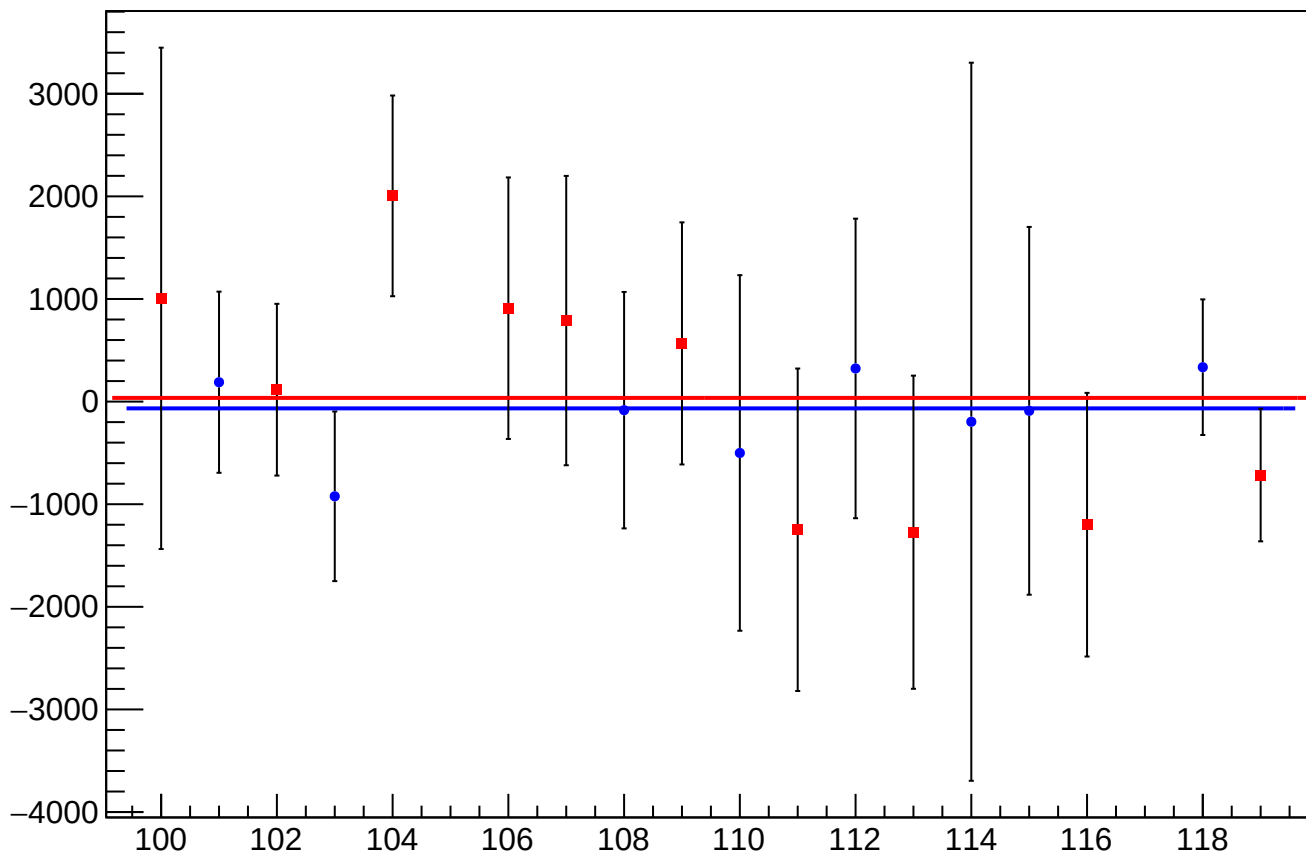
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.320 $\pm$ 0.030  $\chi^2$ /NDF: 1053289.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam1\_eigen\_dit\_correction\_mean vs Slug



Right In: -66.129+/-378.371  $\chi^2/\text{NDF}$ : 1.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.032+/-346.808  $\chi^2/\text{NDF}$ : 8.9/9

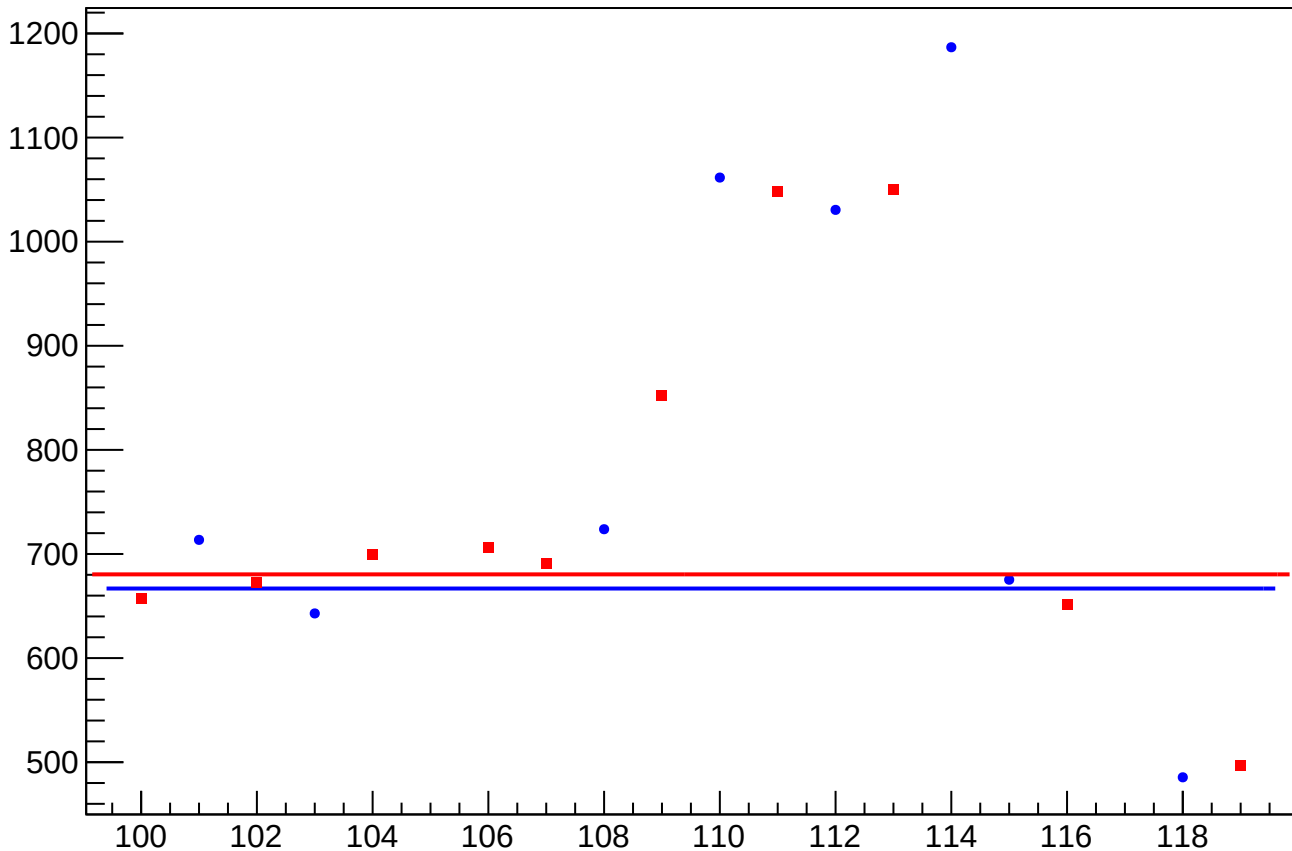
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -10.611+/-255.662  $\chi^2/\text{NDF}$ : 10.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_eigen\_dit\_correction\_rms vs Slug



Right In: 666.822 $\pm$ 0.268  $\chi^2$ /NDF: 434986.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 680.422 $\pm$ 0.245  $\chi^2$ /NDF: 434576.8/9

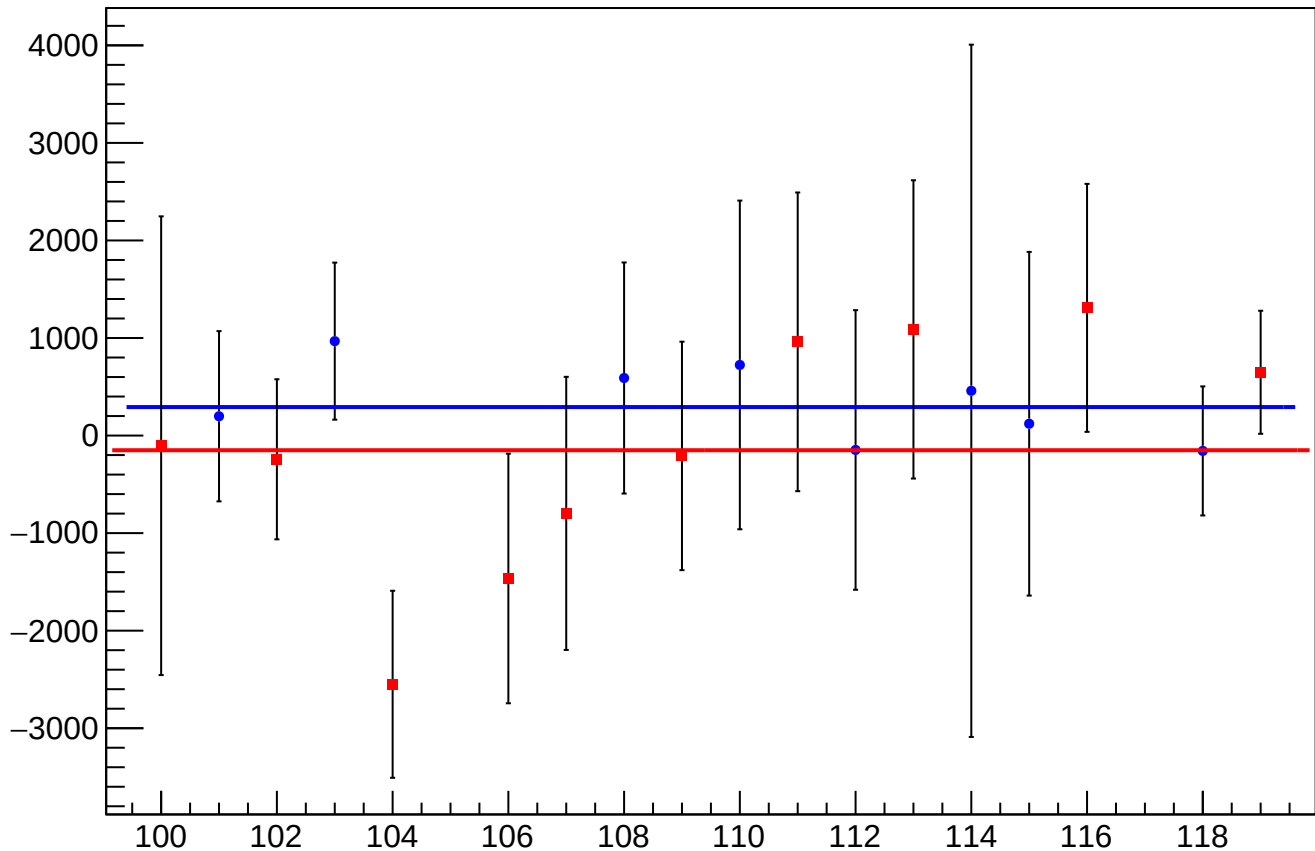
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 674.213 $\pm$ 0.181  $\chi^2$ /NDF: 870967.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_mean vs Slug



Right In: 292.144+/-375.391  $\chi^2/\text{NDF}$ : 1.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -150.349+/-341.153  $\chi^2/\text{NDF}$ : 11.7/9

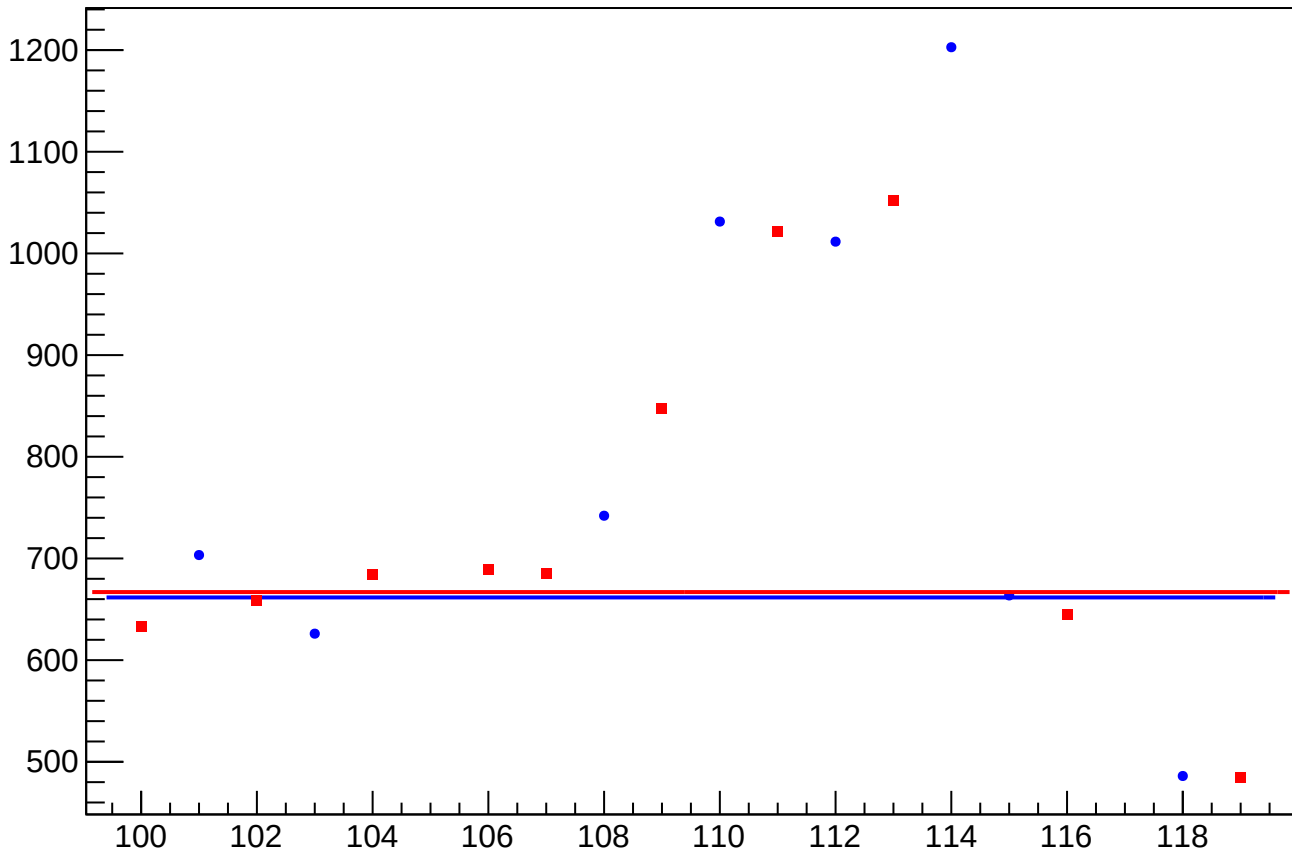
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.802+/-252.470  $\chi^2/\text{NDF}$ : 13.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_rms vs Slug



Right In: 661.661 $\pm$ 0.265  $\chi^2$ /NDF: 420729.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 666.952 $\pm$ 0.241  $\chi^2$ /NDF: 451775.5/9

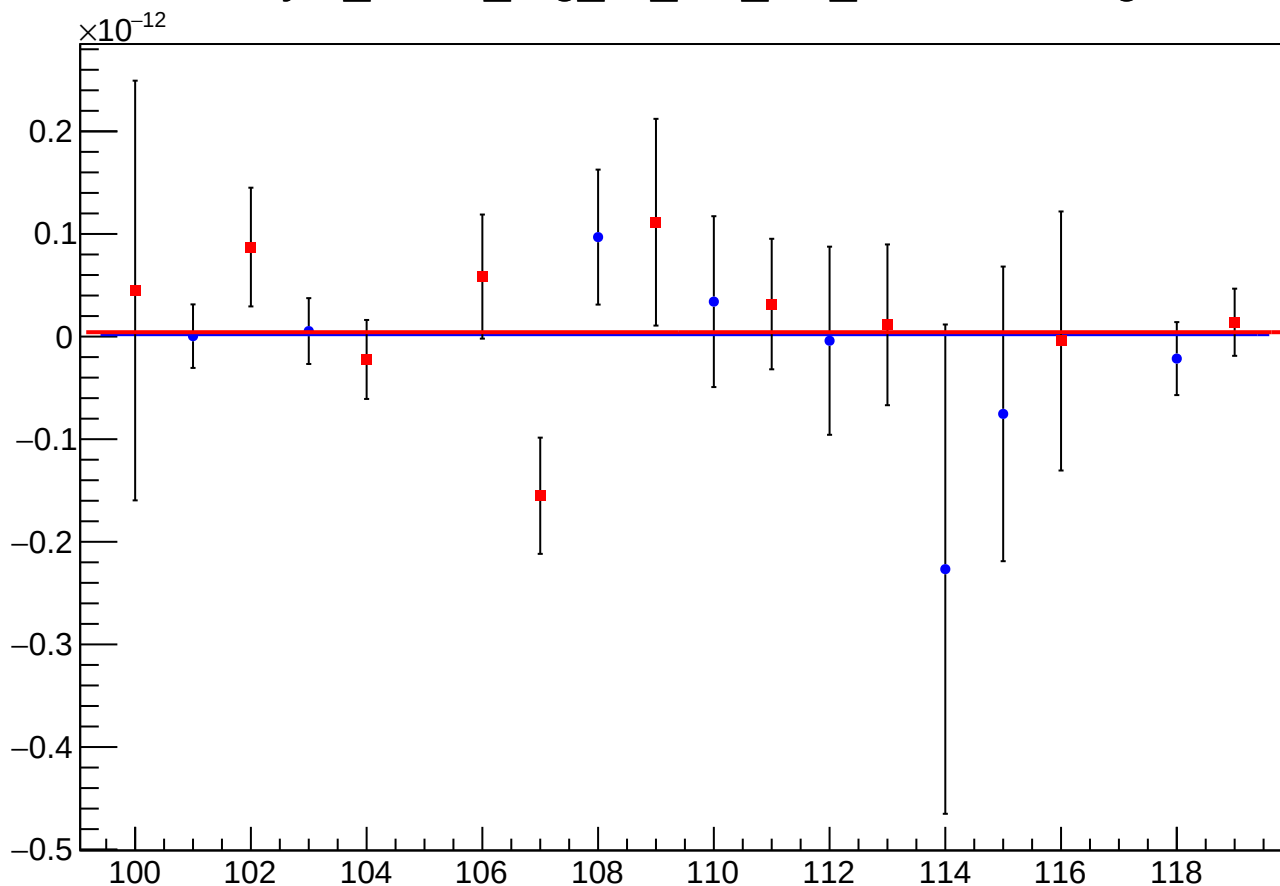
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 664.559 $\pm$ 0.179  $\chi^2$ /NDF: 872722.4/17

- 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: 3.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.7/9

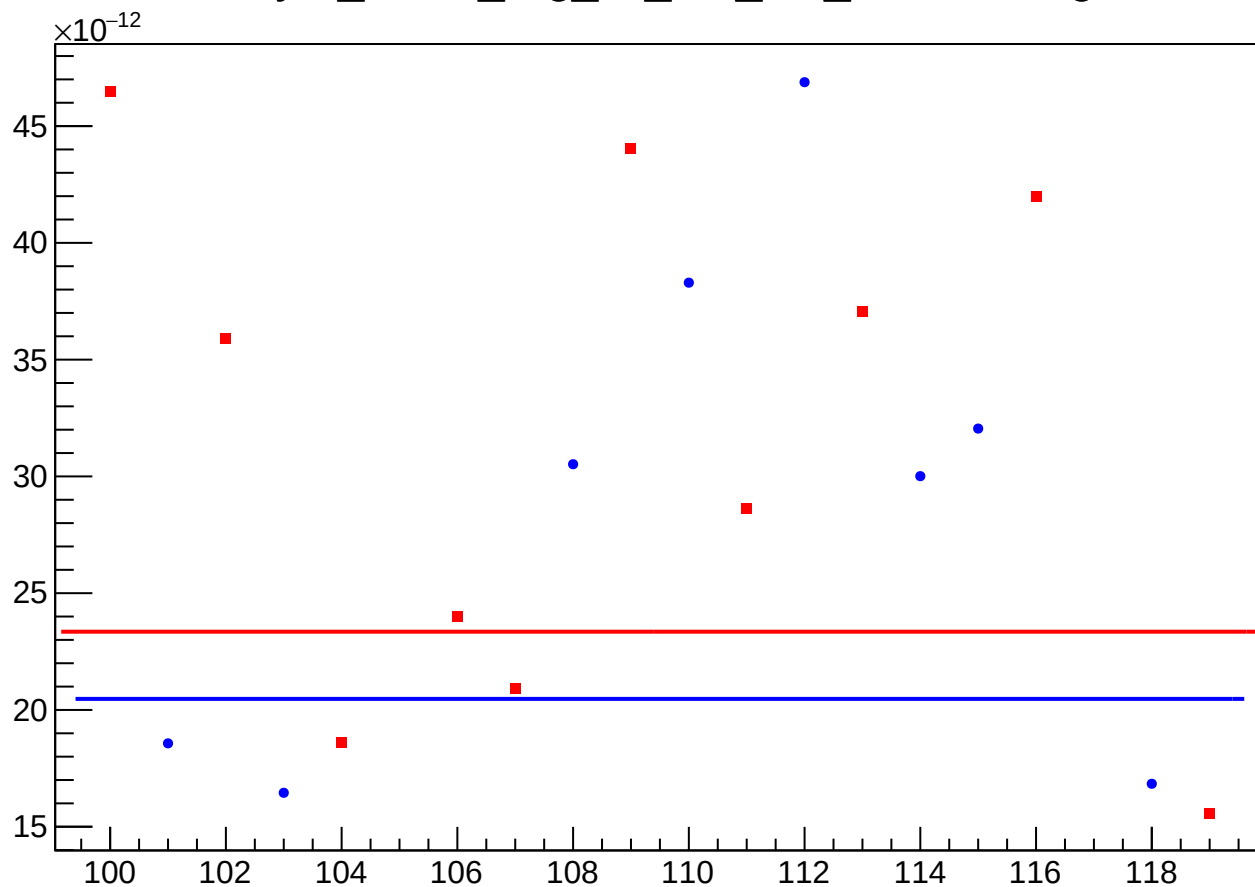
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.6/17

- 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  $\chi^2/\text{NDF}$ : 380336.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 469777.4/9

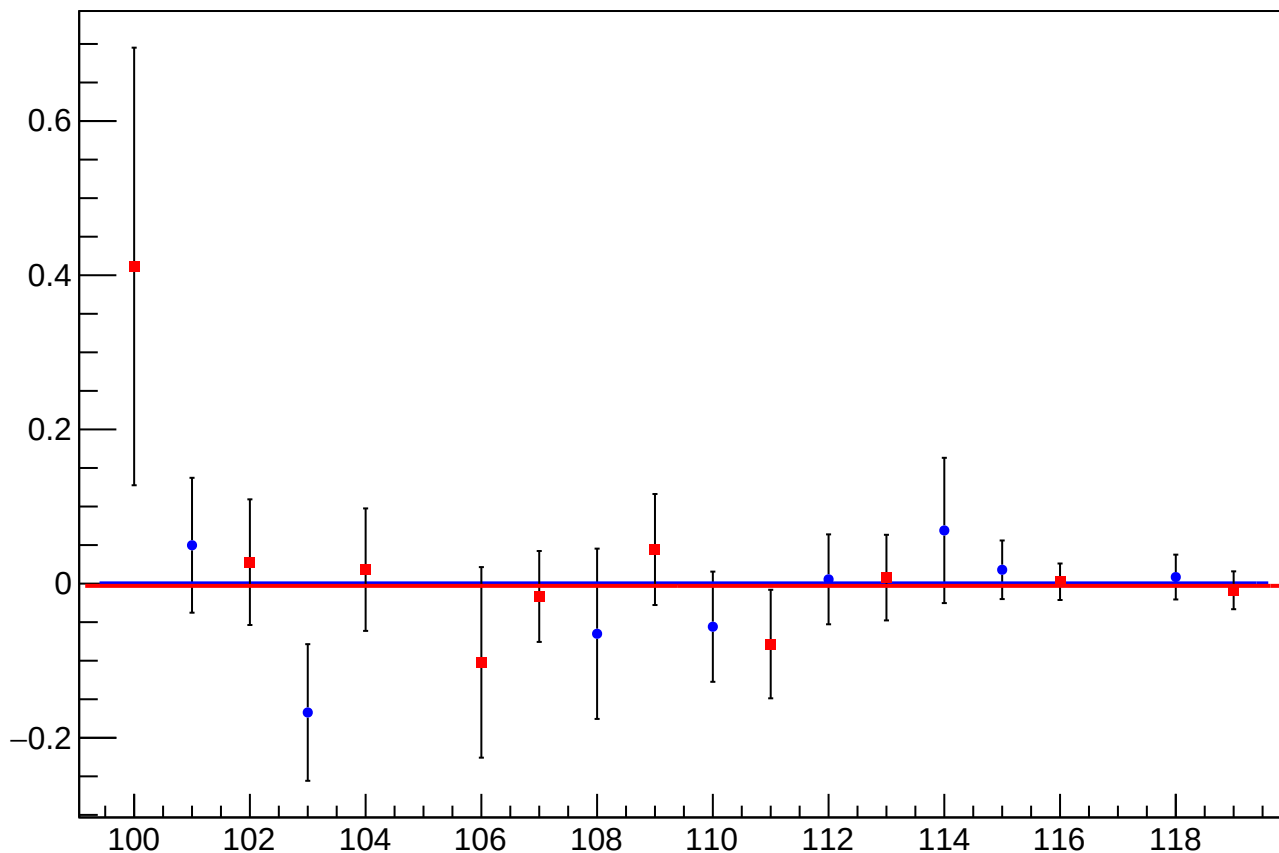
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 876778.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.019  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 4.8/9

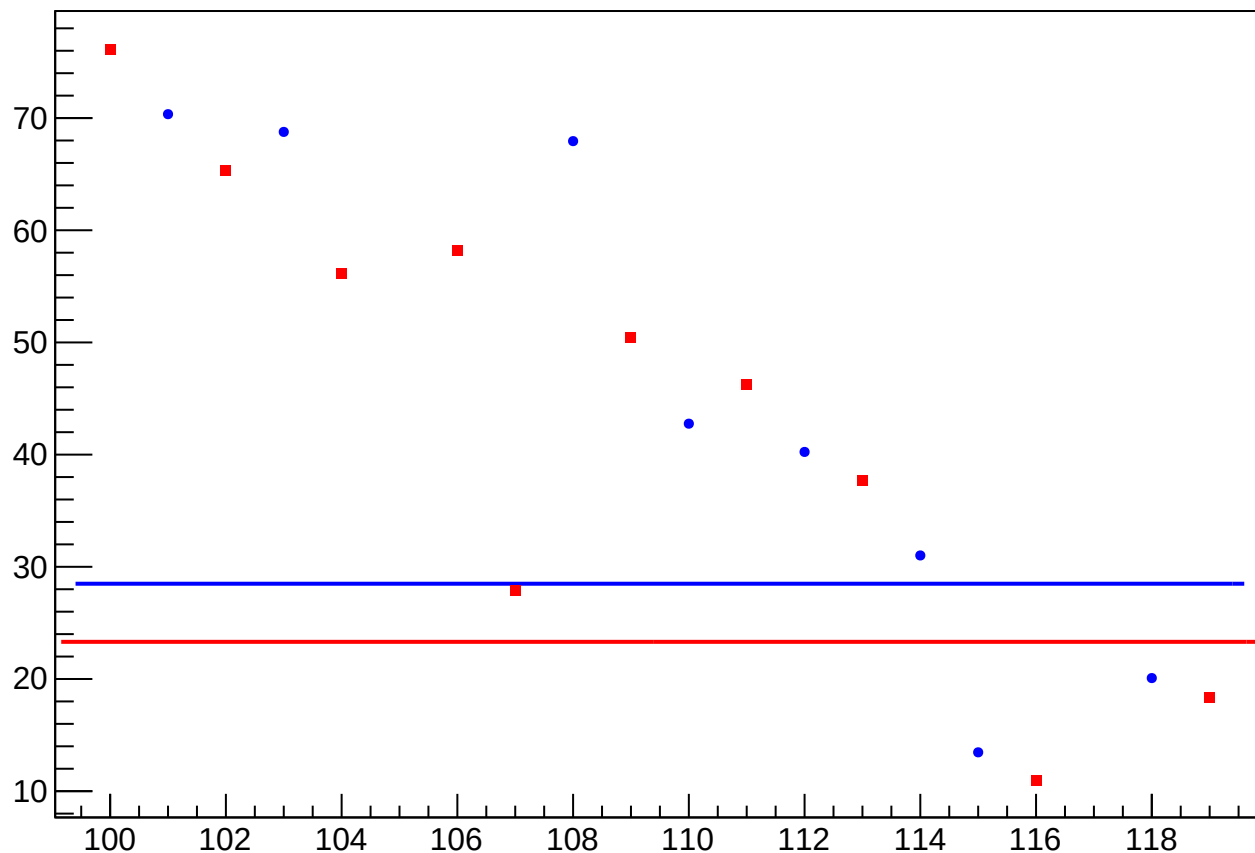
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.002 $\pm$ 0.011  $\chi^2$ /NDF: 10.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 28.492 $\pm$ 0.013  $\chi^2$ /NDF: 1768771.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 23.312 $\pm$ 0.010  $\chi^2$ /NDF: 2372580.7/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

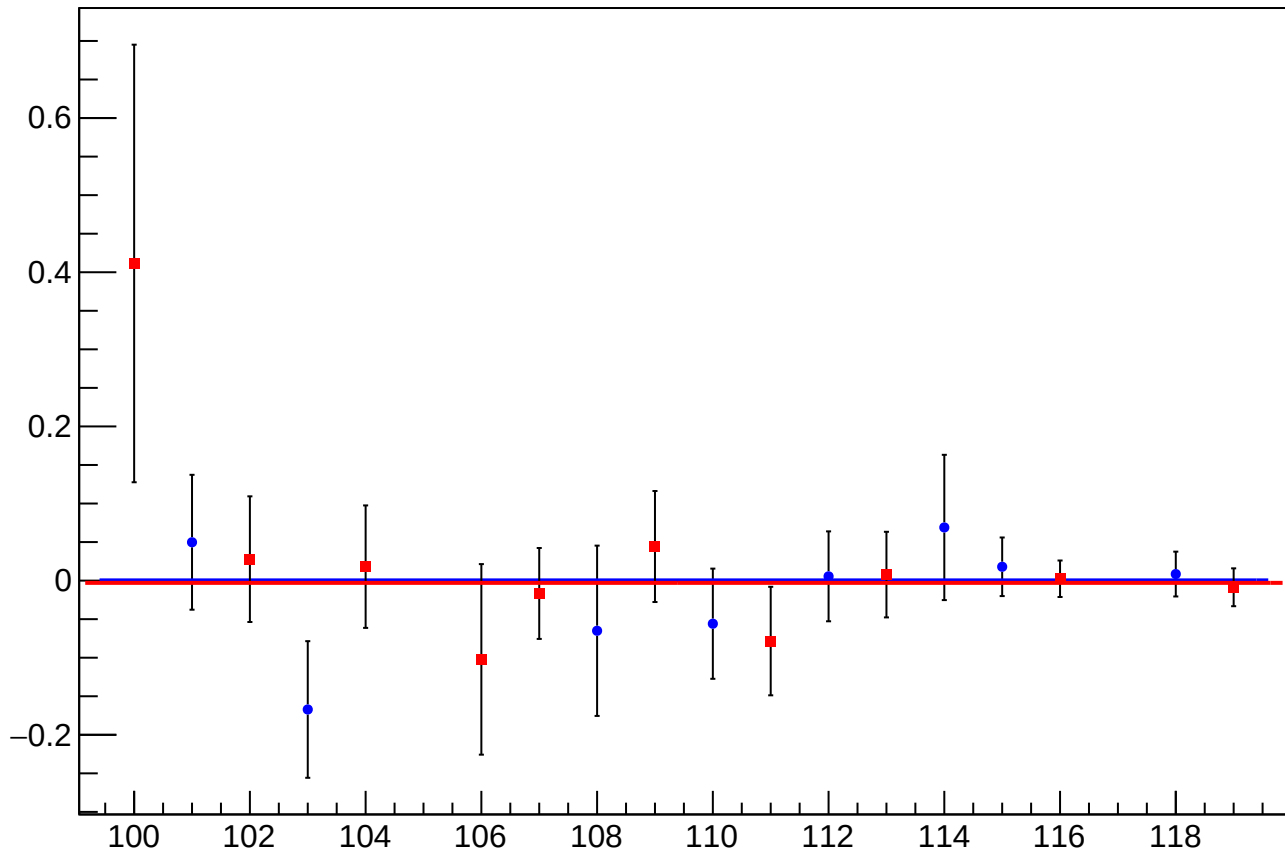
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.219 $\pm$ 0.008  $\chi^2$ /NDF: 4236924.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam1\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.019  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 4.8/9

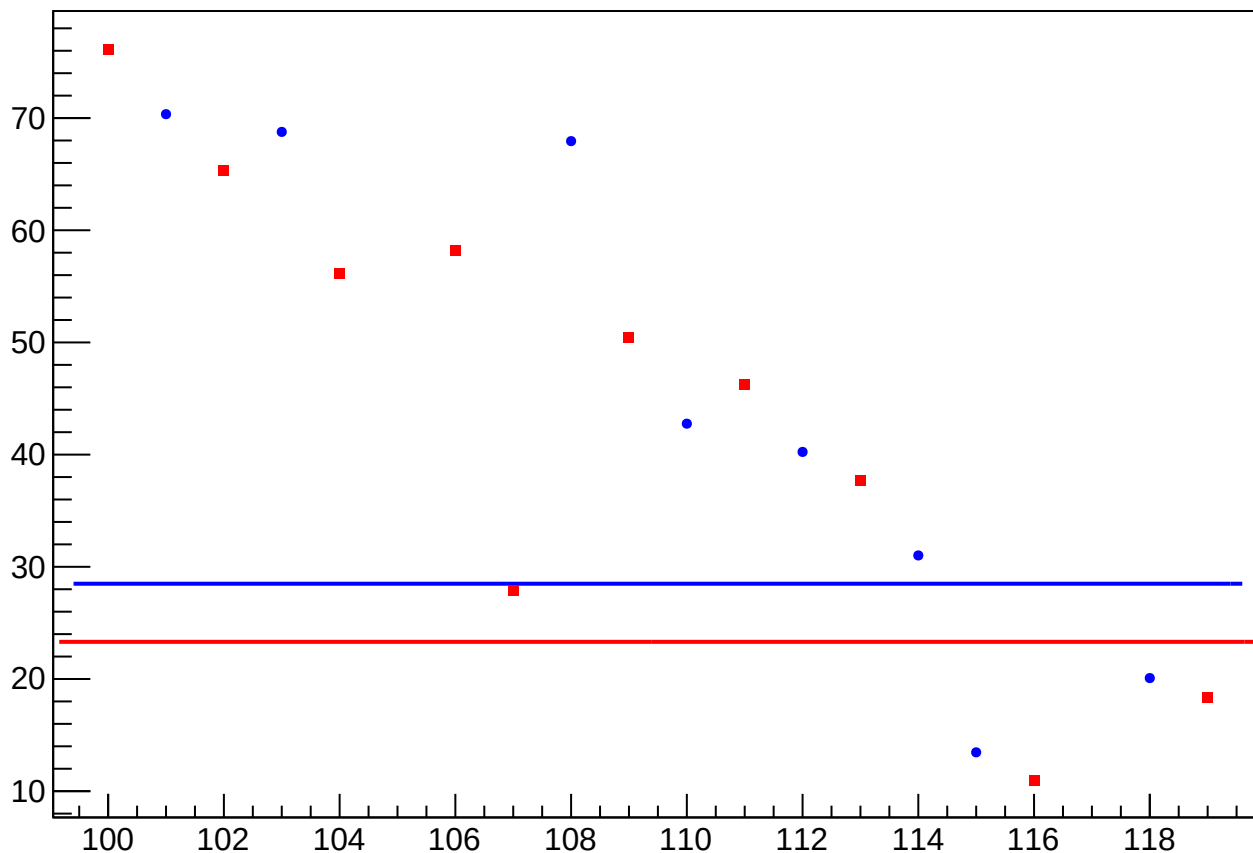
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.002 $\pm$ 0.011  $\chi^2$ /NDF: 10.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 28.492 $\pm$ 0.013  $\chi^2$ /NDF: 1768771.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 23.312 $\pm$ 0.010  $\chi^2$ /NDF: 2372580.7/9

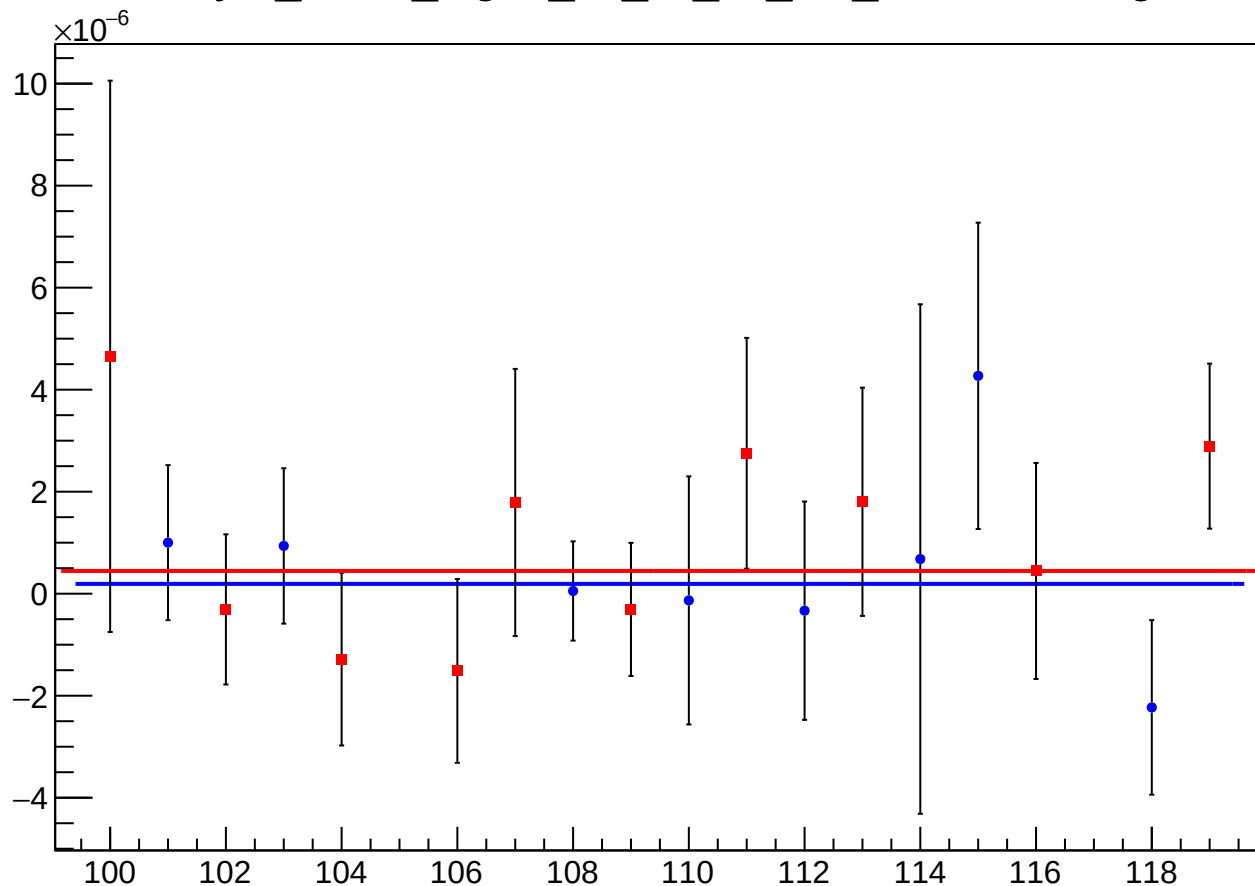
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.219 $\pm$ 0.008  $\chi^2$ /NDF: 4236924.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

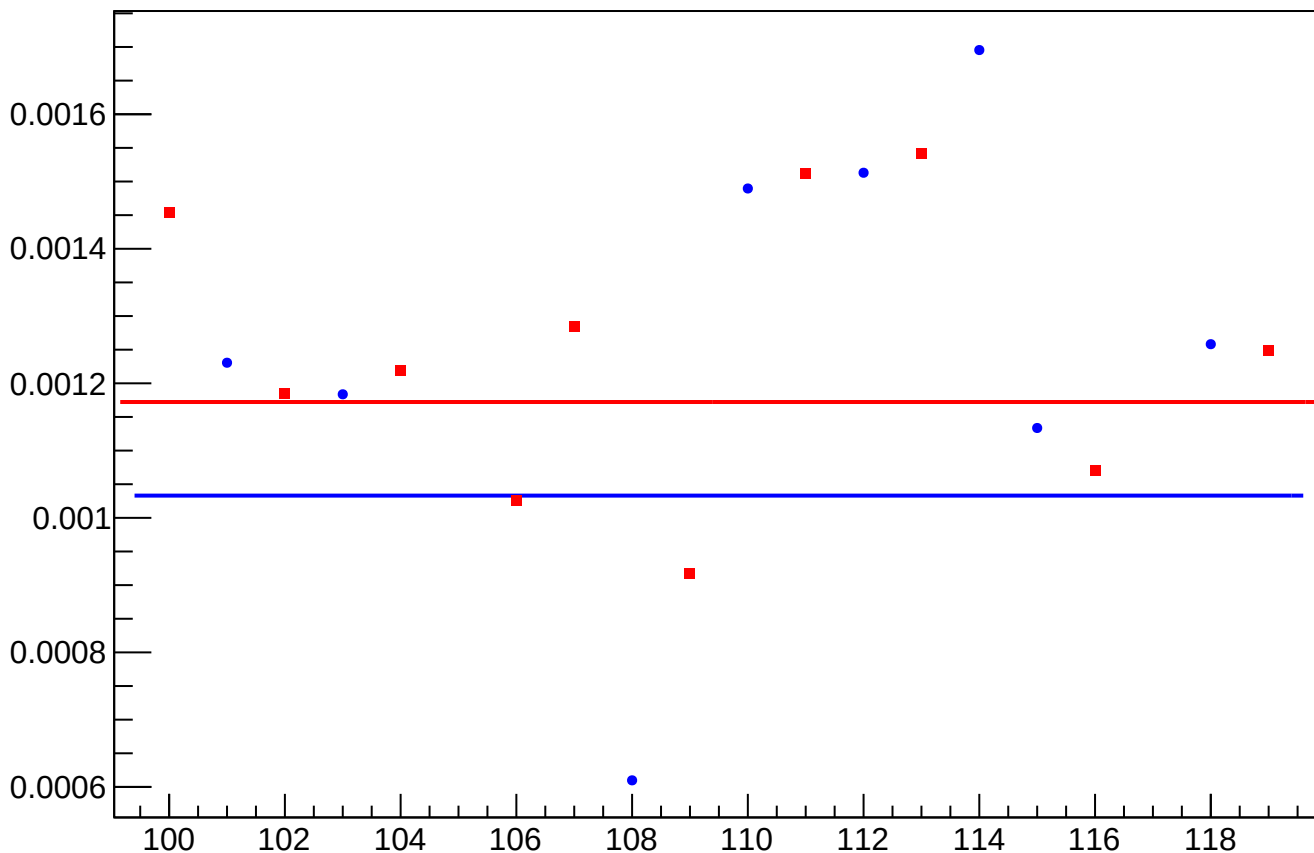
asym\_sam1\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.5/7  
 Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.4/9  
 Left In: 0.000 $\pm$ 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: 12.0/17  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 674930.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 209294.5/9

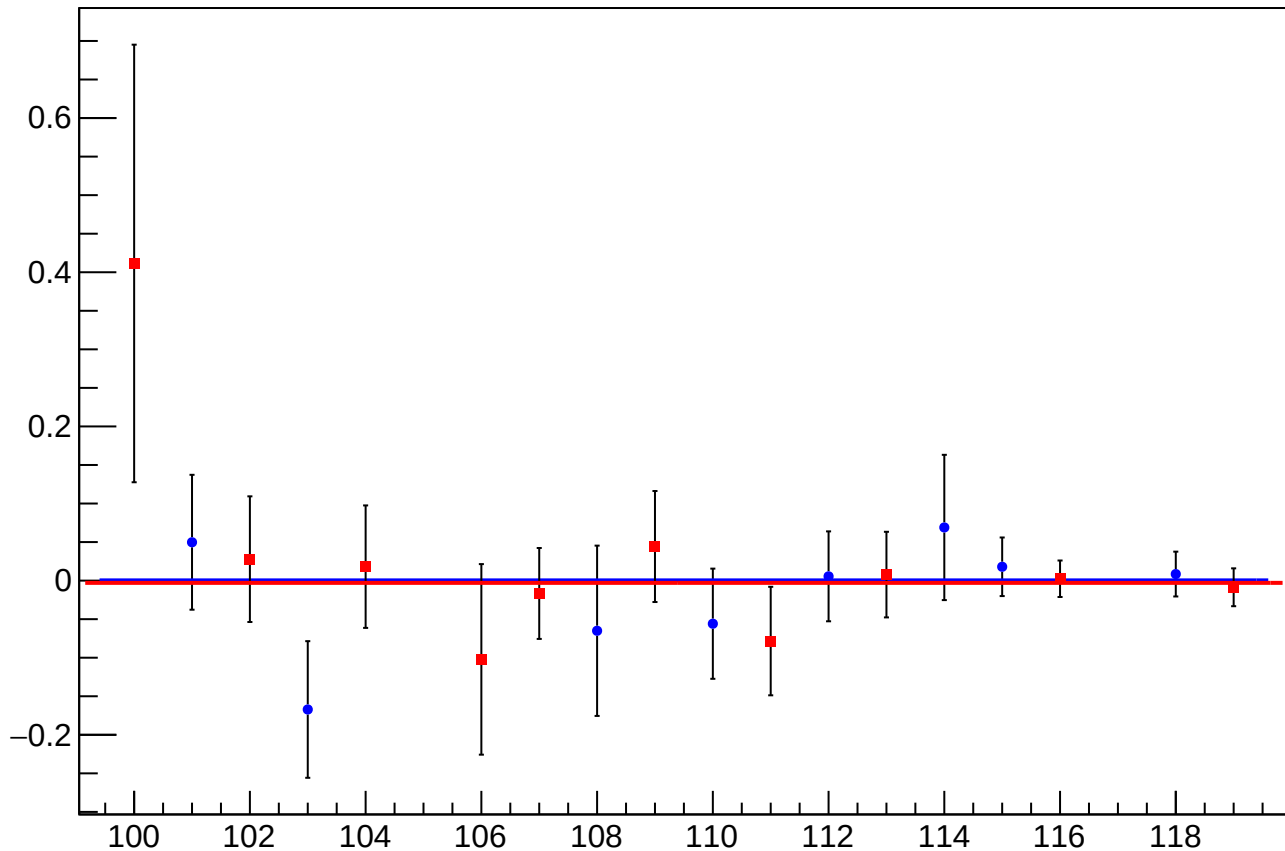
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 939257.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam1\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.019  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 4.8/9

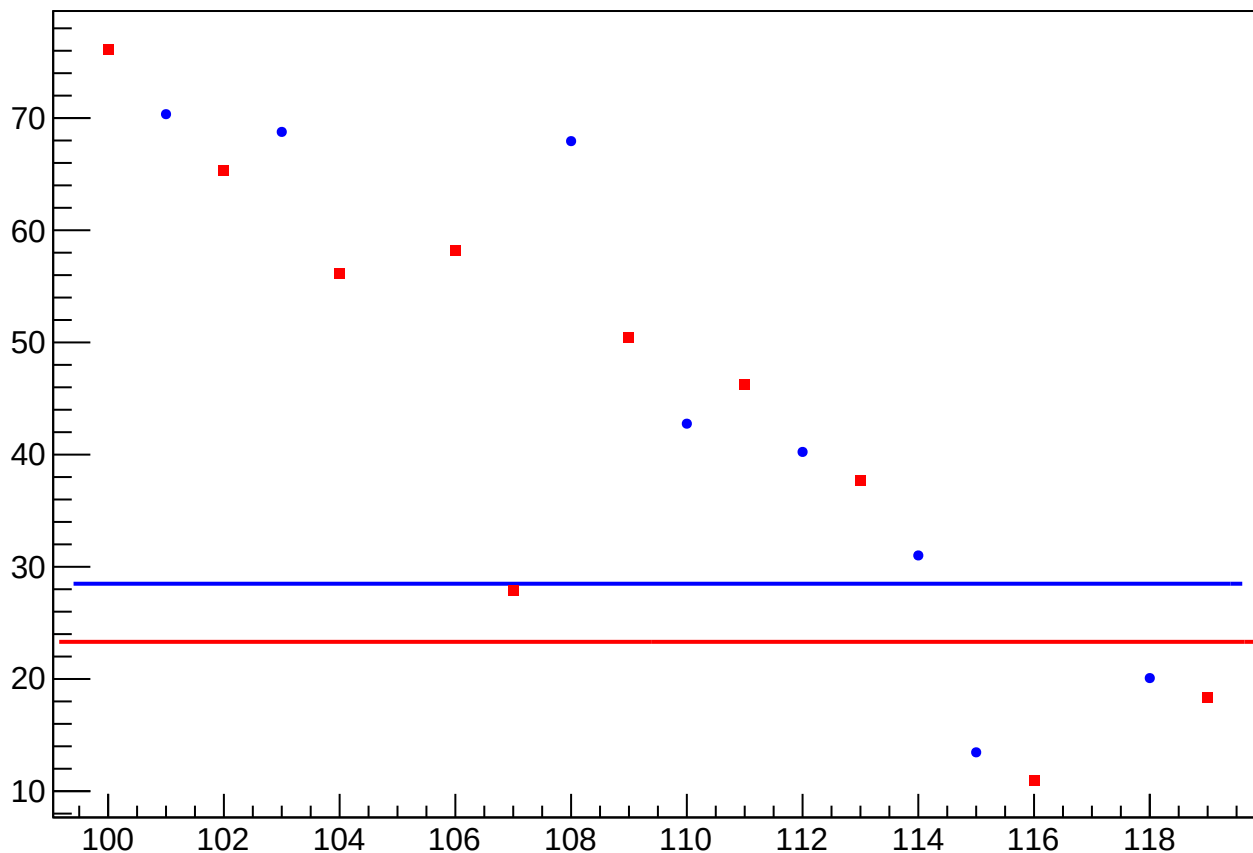
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.002 $\pm$ 0.011  $\chi^2$ /NDF: 10.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 28.491 $\pm$ 0.013  $\chi^2$ /NDF: 1768826.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 23.312 $\pm$ 0.010  $\chi^2$ /NDF: 2372648.1/9

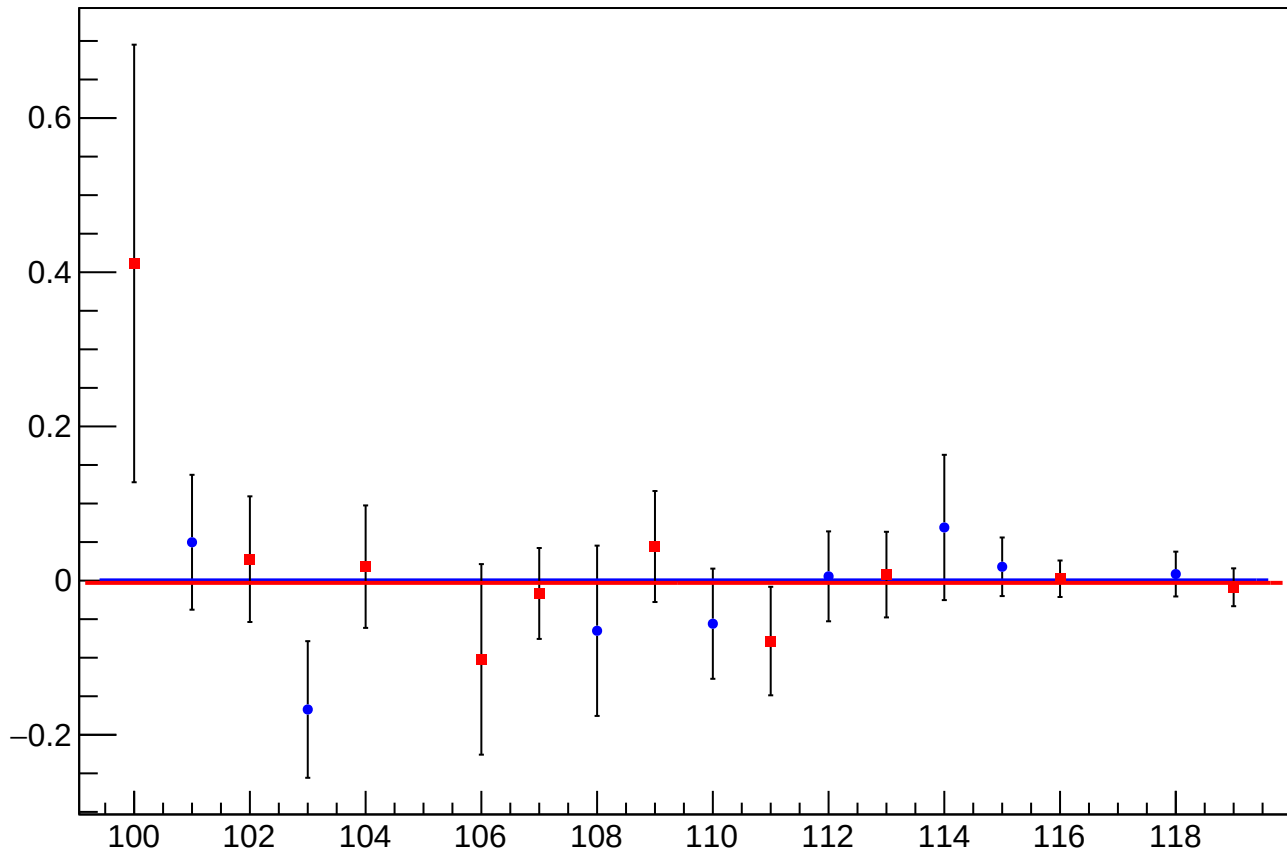
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.218 $\pm$ 0.008  $\chi^2$ /NDF: 4237050.6/17

- 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: 0.000 $\pm$ 0.019  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 4.8/9

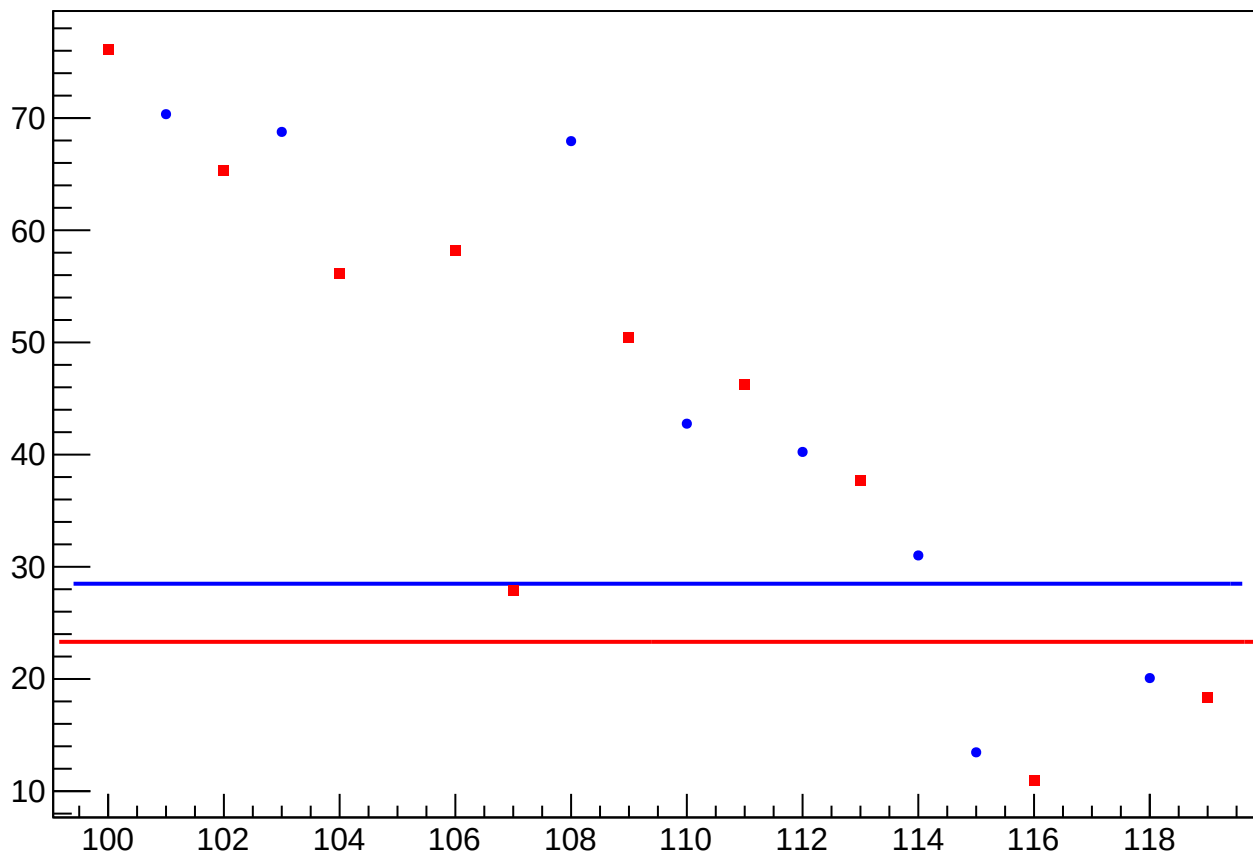
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.002 $\pm$ 0.011  $\chi^2$ /NDF: 10.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam1\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 28.491 $\pm$ 0.013  $\chi^2$ /NDF: 1768826.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 23.312 $\pm$ 0.010  $\chi^2$ /NDF: 2372648.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

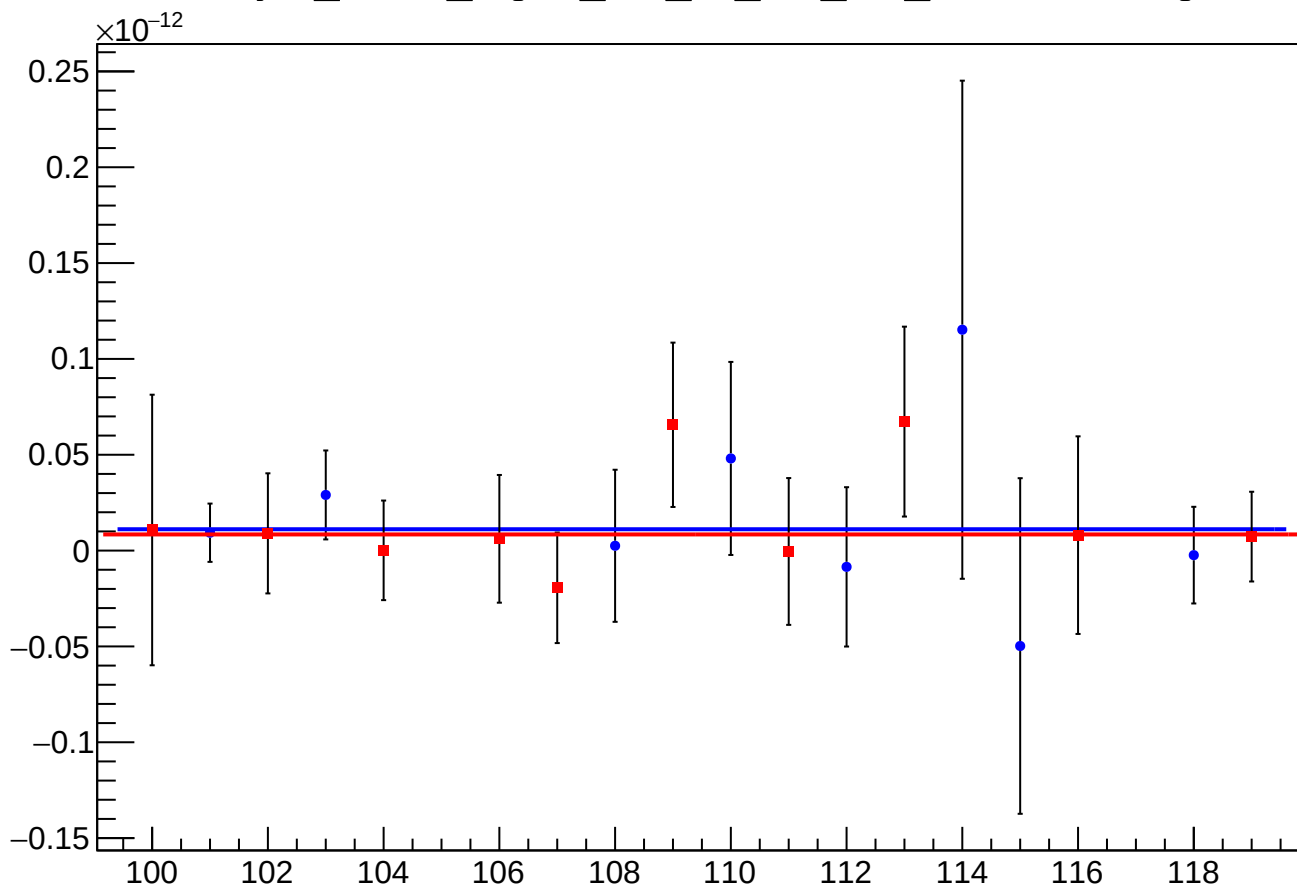
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.218 $\pm$ 0.008  $\chi^2$ /NDF: 4237050.6/17

- 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  $\chi^2/\text{NDF}$ : 2.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4.3/9

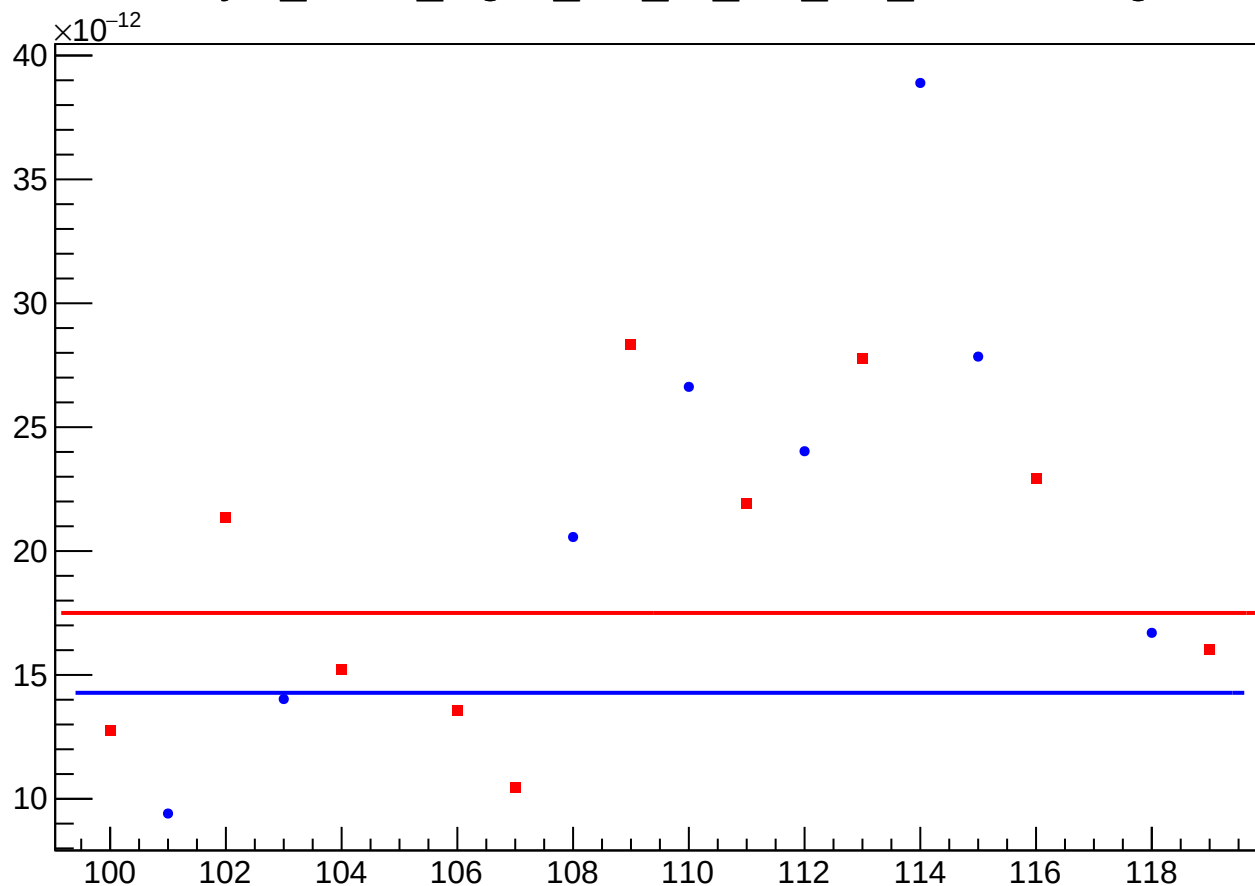
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 7.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 624420.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 472287.0/9

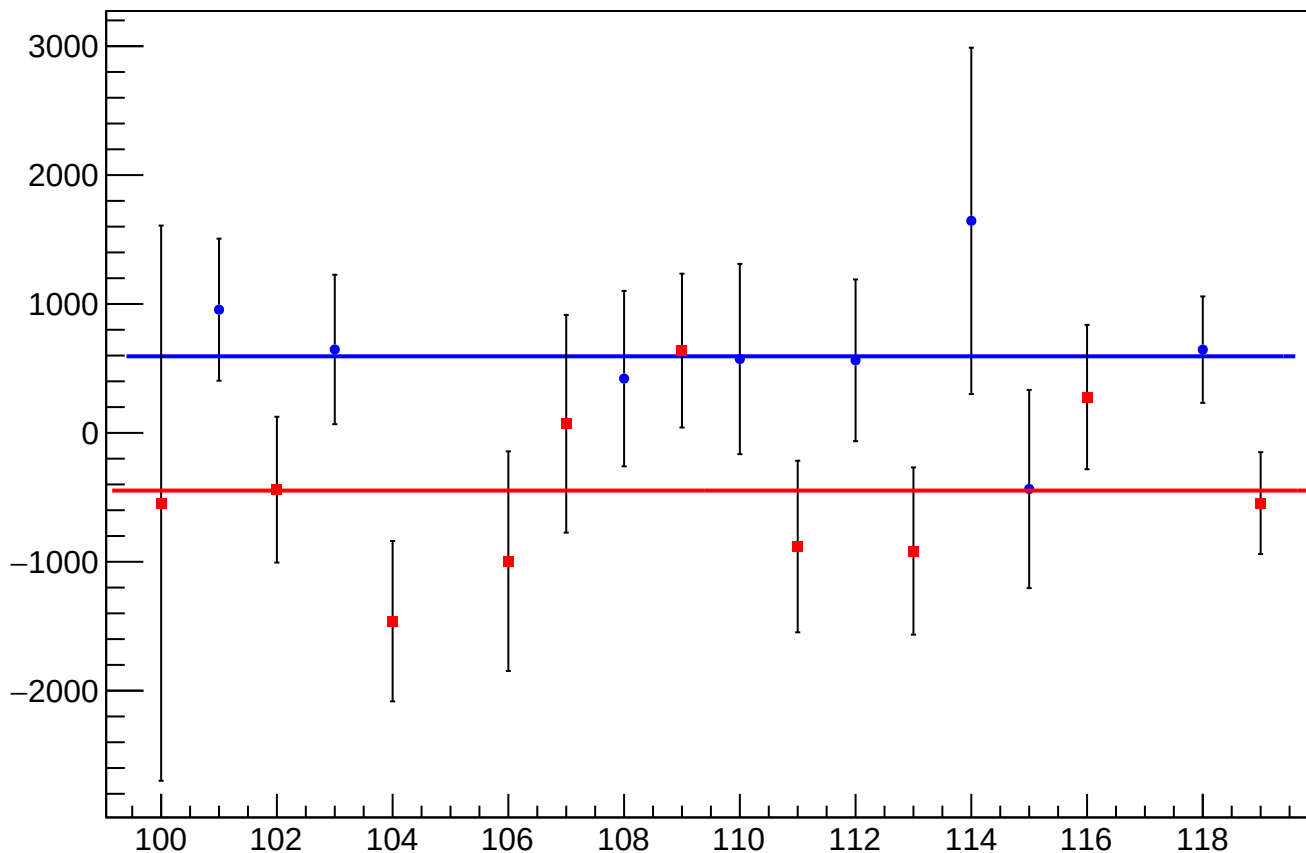
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1190961.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_mean vs Slug



Right In: 594.141+/-218.654  $\chi^2/\text{NDF}$ : 2.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -447.474+/-197.086  $\chi^2/\text{NDF}$ : 9.4/9

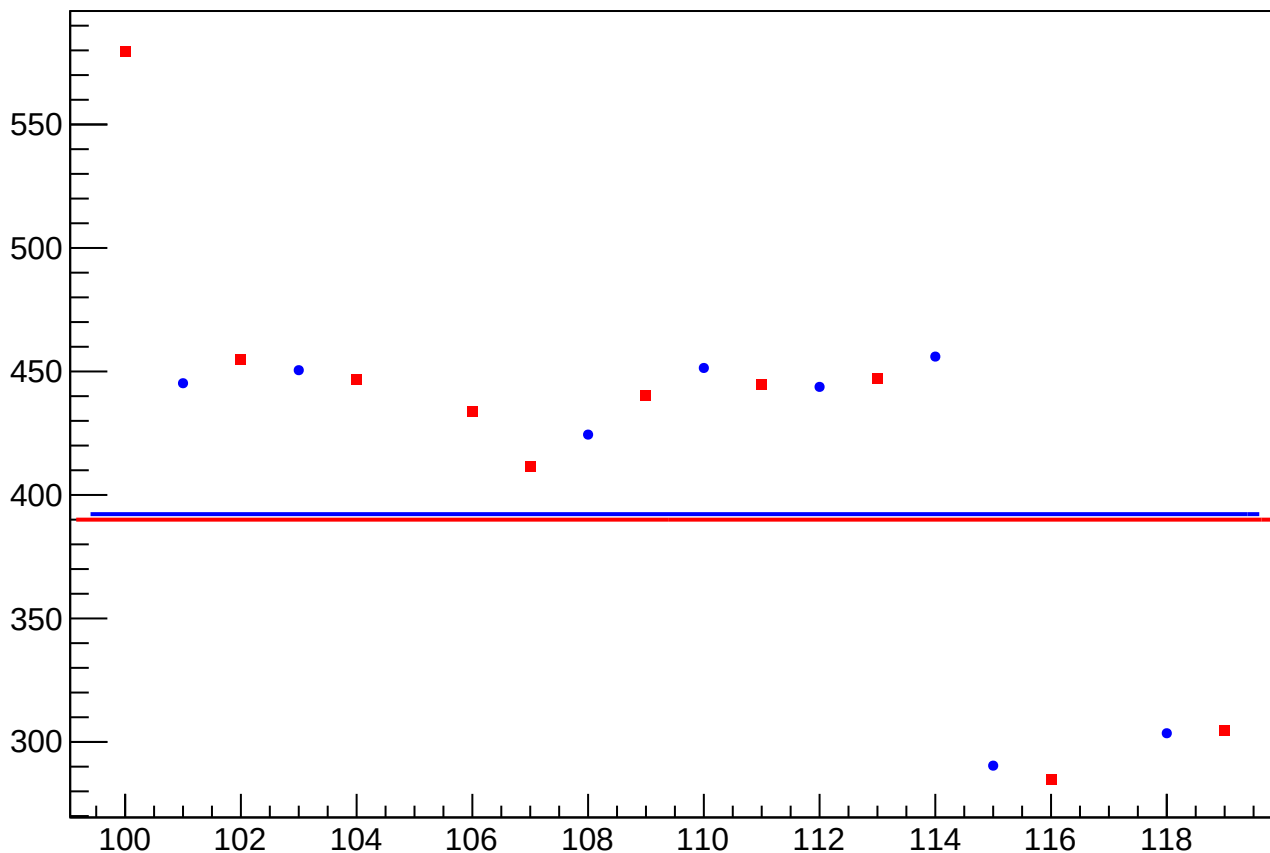
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.442+/-146.394  $\chi^2/\text{NDF}$ : 24.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_rms vs Slug



Right In: 392.231+/-0.155  $\chi^2/\text{NDF}$ : 201457.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 390.007+/-0.139  $\chi^2/\text{NDF}$ : 272192.1/9

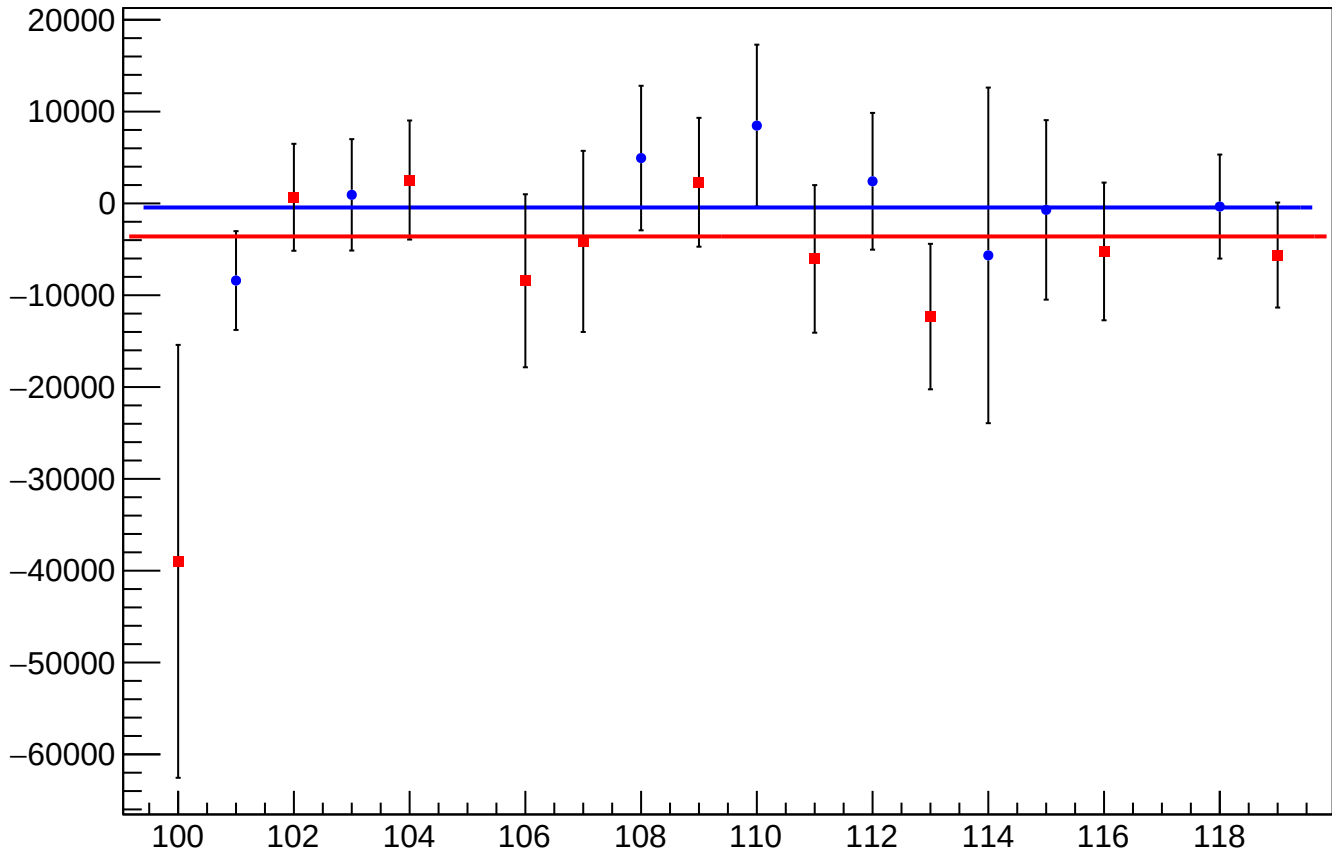
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 391.004+/-0.104  $\chi^2/\text{NDF}$ : 473763.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_reg\_correction\_mean vs Slug



Right In: -441.570+/-2553.420  $\chi^2/\text{NDF}$ : 4.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3596.806+/-2378.689  $\chi^2/\text{NDF}$ : 6.1/9

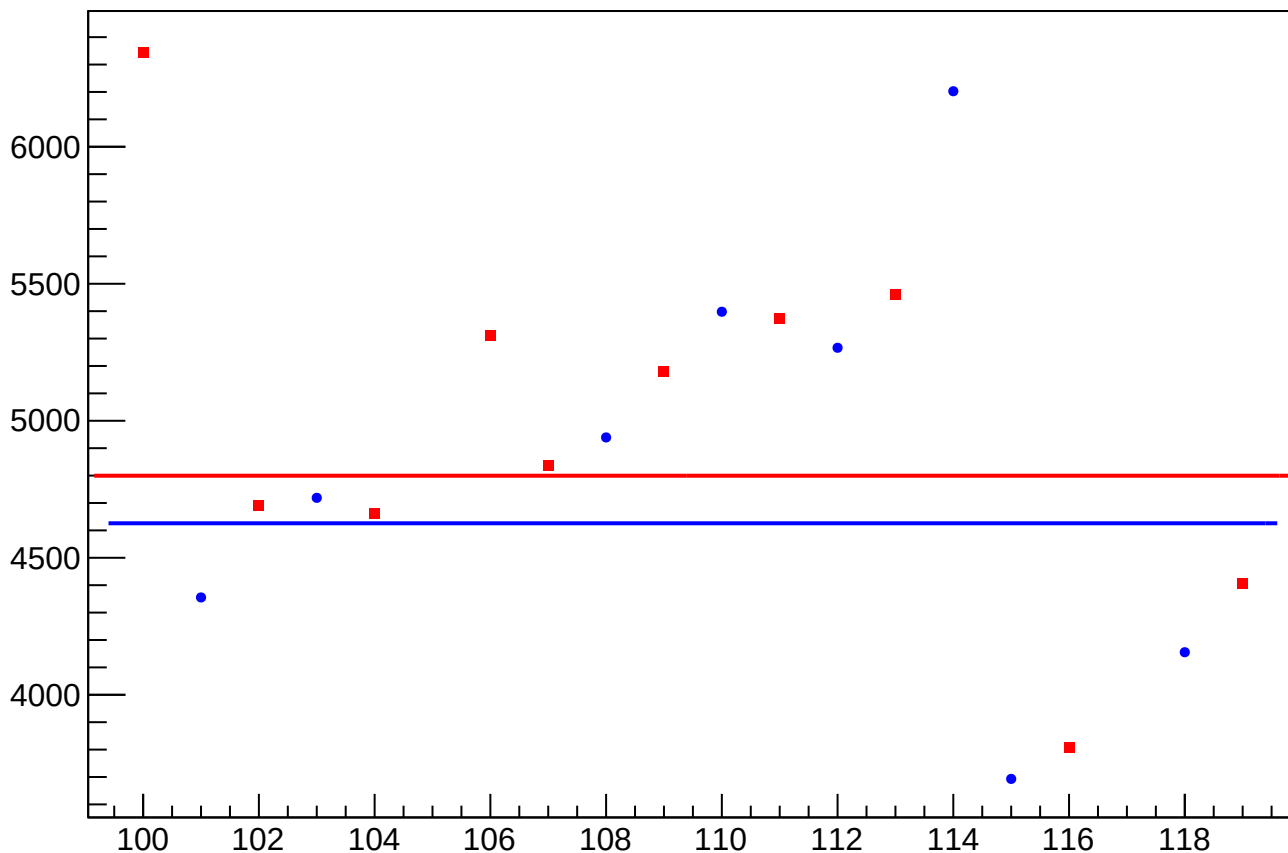
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2130.829+/-1740.483  $\chi^2/\text{NDF}$ : 10.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_reg\_correction\_rms vs Slug



Right In: 4625.941+/-1.806  $\chi^2/\text{NDF}$ : 85724.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4799.474+/-1.682  $\chi^2/\text{NDF}$ : 90438.8/9

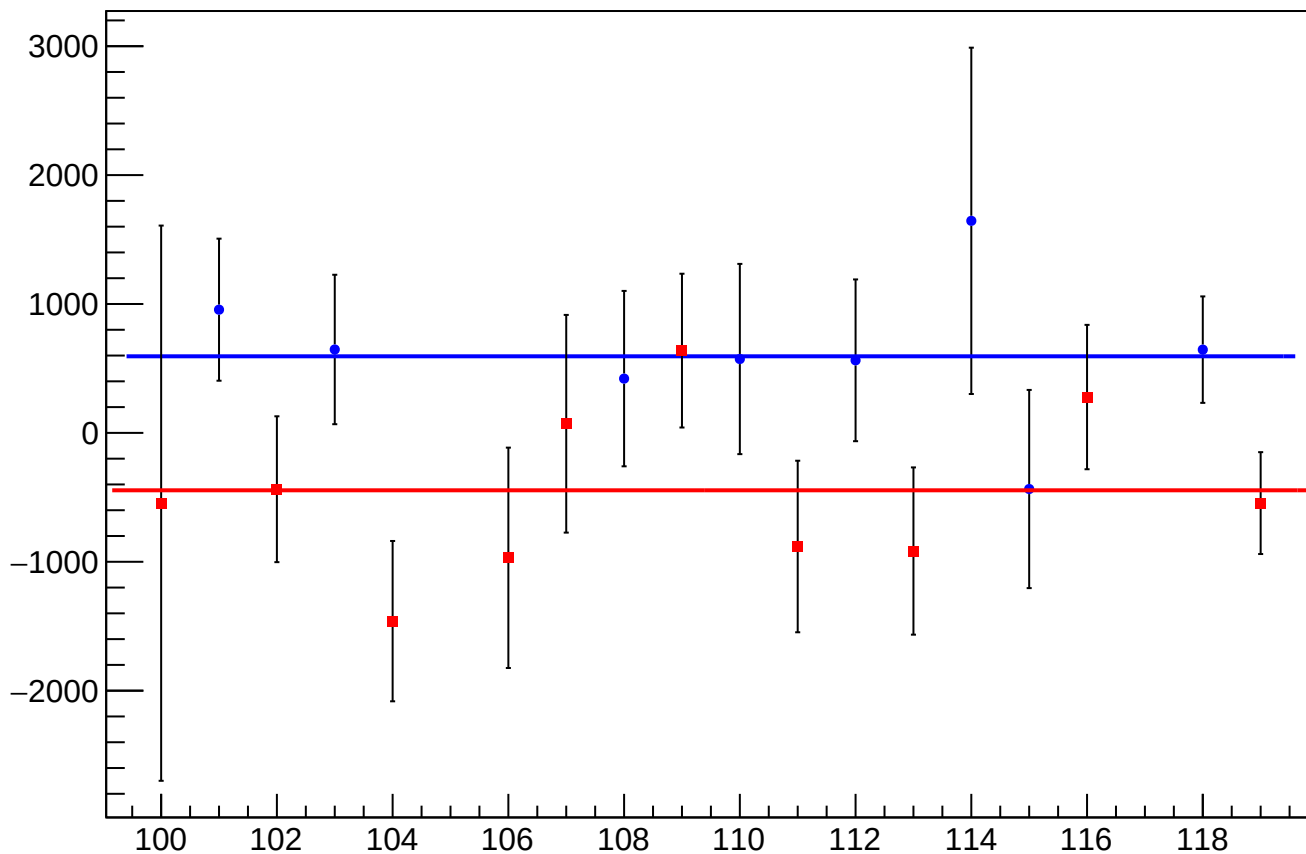
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4718.848+/-1.231  $\chi^2/\text{NDF}$ : 181108.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam2\_mean vs Slug



Right In: 594.161 $\pm$ 218.654  $\chi^2$ /NDF: 2.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -445.434 $\pm$ 197.135  $\chi^2$ /NDF: 9.4/9

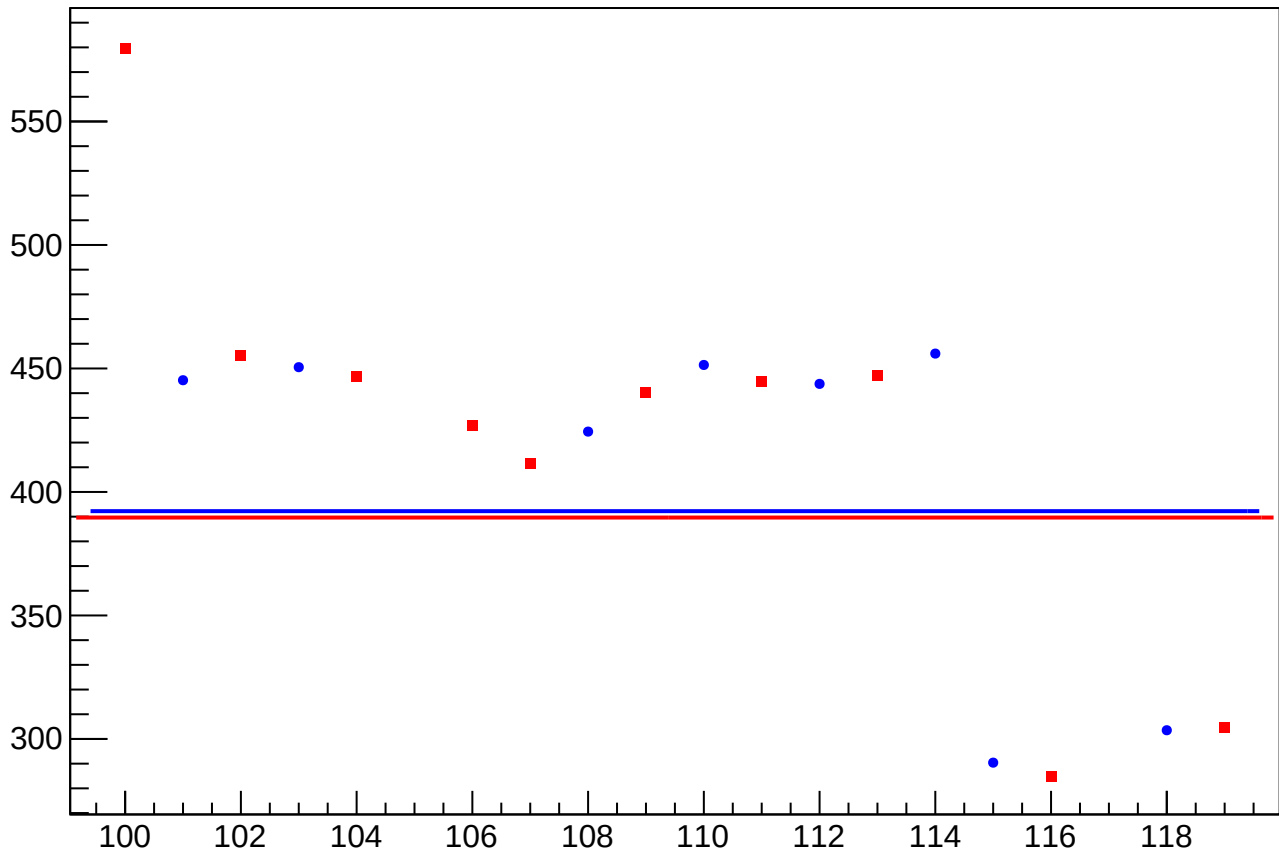
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 20.705 $\pm$ 146.414  $\chi^2$ /NDF: 24.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam2\_rms vs Slug



Right In: 392.231+/-0.155  $\chi^2/\text{NDF}$ : 201457.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 389.644+/-0.139  $\chi^2/\text{NDF}$ : 270774.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

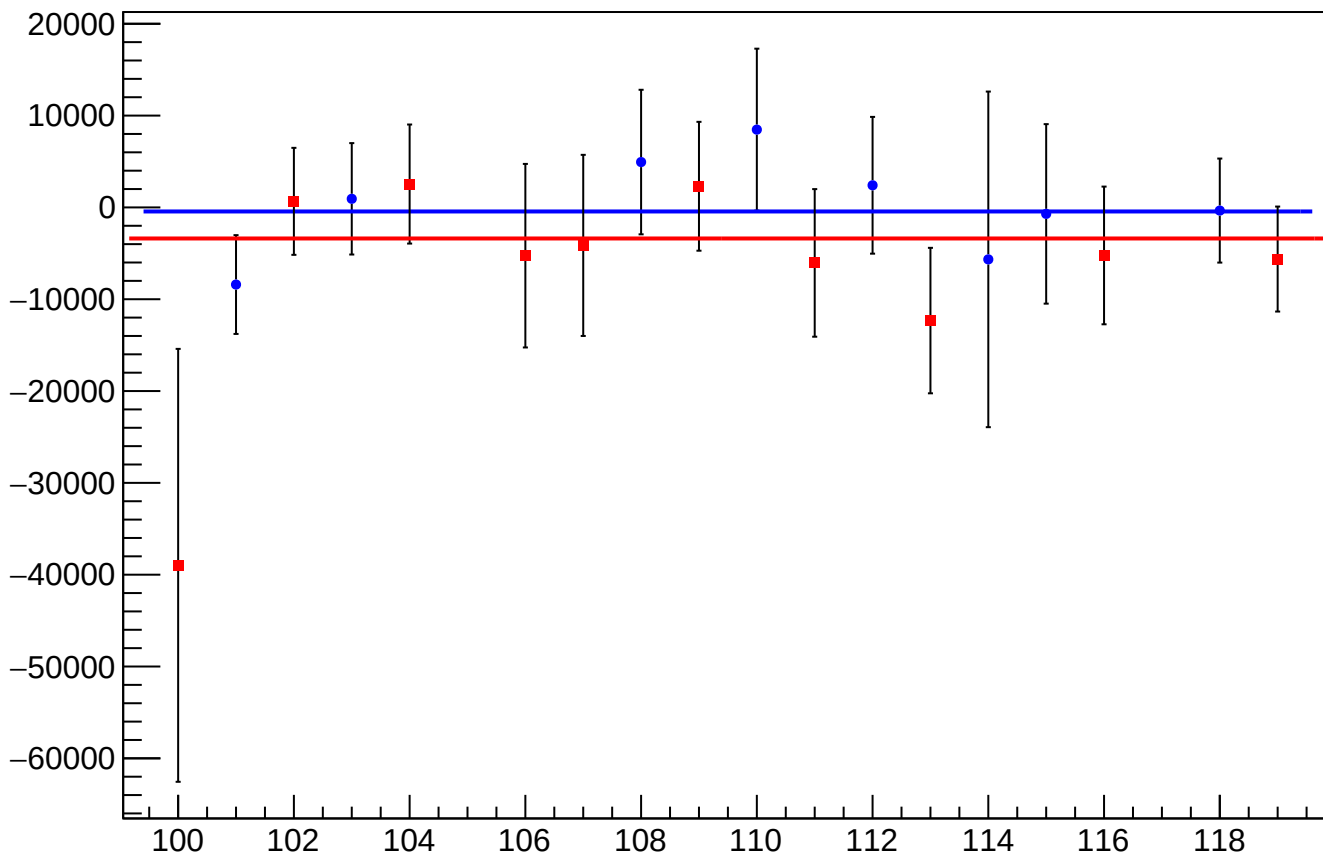
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 390.804+/-0.104  $\chi^2/\text{NDF}$ : 472386.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam2\_cor\_correction\_mean vs Slug



Right In: -441.235+/-2553.438  $\chi^2/\text{NDF}$ : 4.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3383.522+/-2387.394  $\chi^2/\text{NDF}$ : 5.9/9

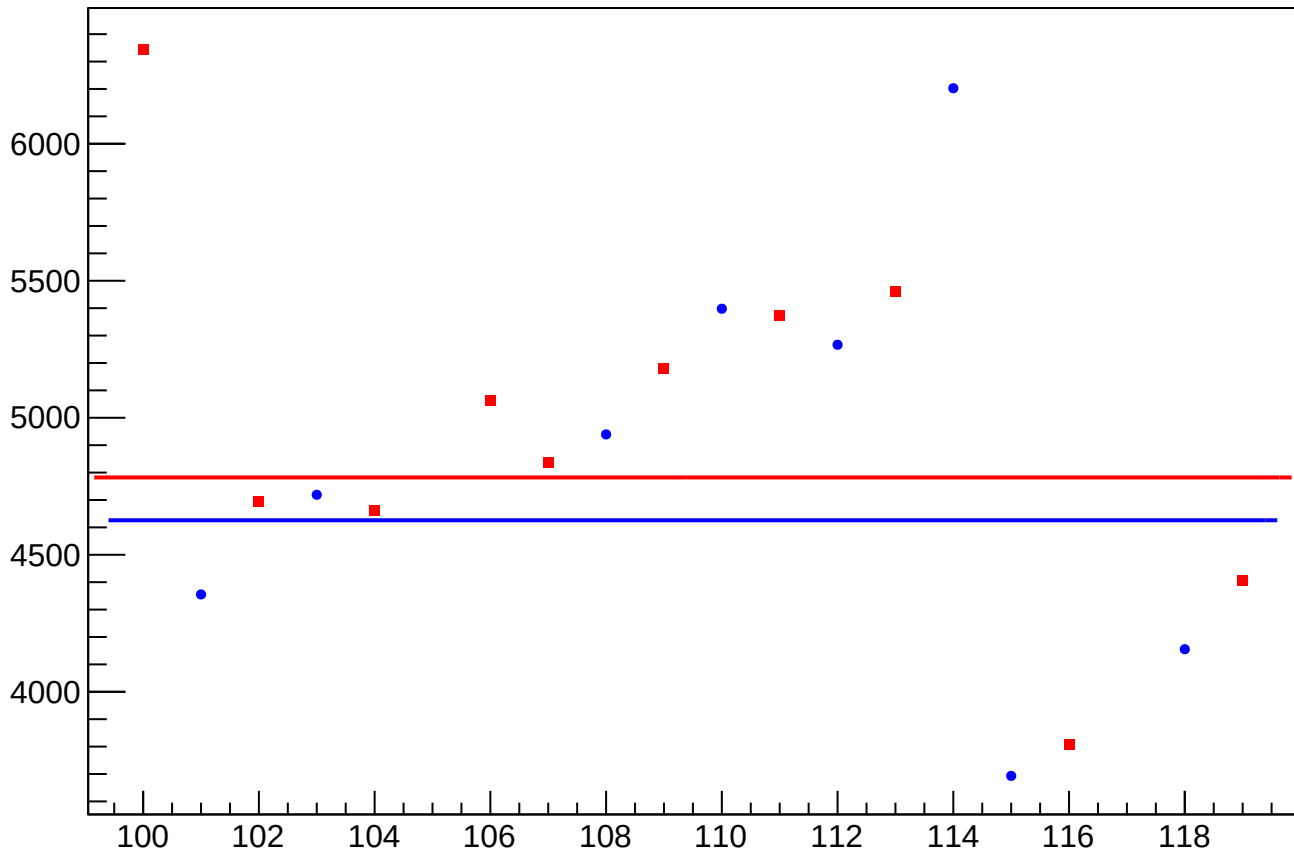
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2011.147+/-1743.891  $\chi^2/\text{NDF}$ : 10.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_cor\_correction\_rms vs Slug



Right In: 4625.971+/-1.806  $\chi^2/\text{NDF}$ : 85726.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4782.217+/-1.688  $\chi^2/\text{NDF}$ : 85830.1/9

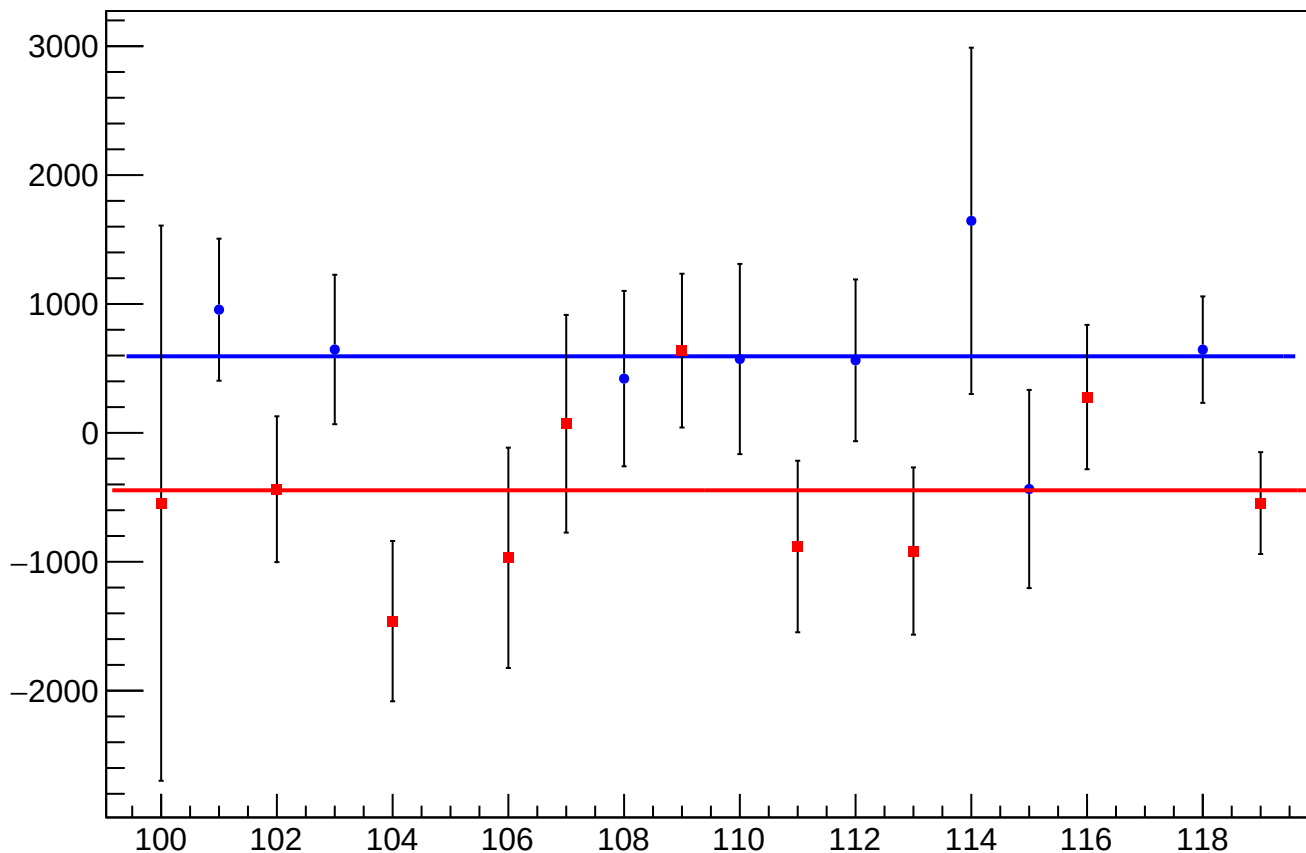
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4709.339+/-1.233  $\chi^2/\text{NDF}$ : 175552.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam2\_mean vs Slug



Right In: 594.161+/-218.654  $\chi^2/\text{NDF}$ : 2.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -445.434+/-197.135  $\chi^2/\text{NDF}$ : 9.4/9

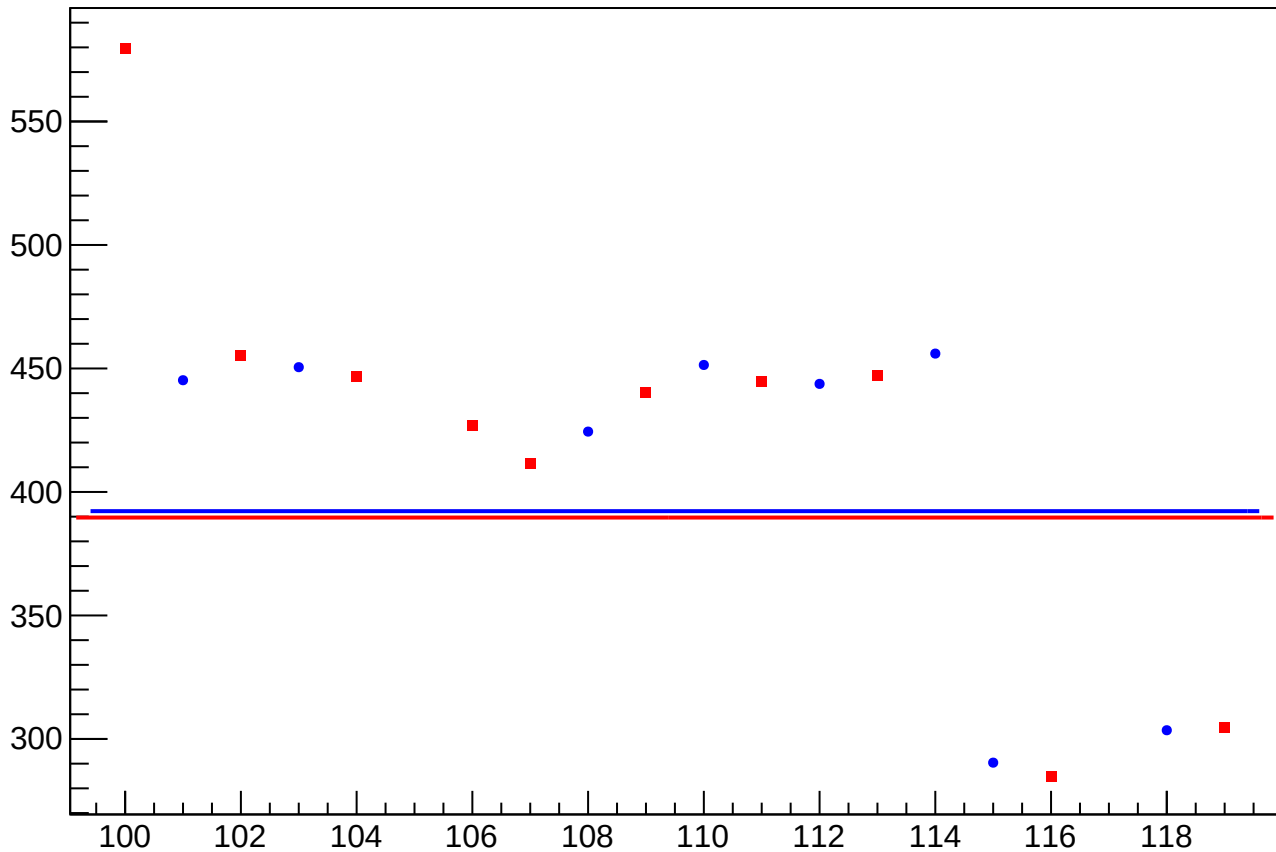
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.705+/-146.414  $\chi^2/\text{NDF}$ : 24.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam2\_rms vs Slug



Right In: 392.231+/-0.155  $\chi^2/\text{NDF}$ : 201457.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 389.644+/-0.139  $\chi^2/\text{NDF}$ : 270774.3/9

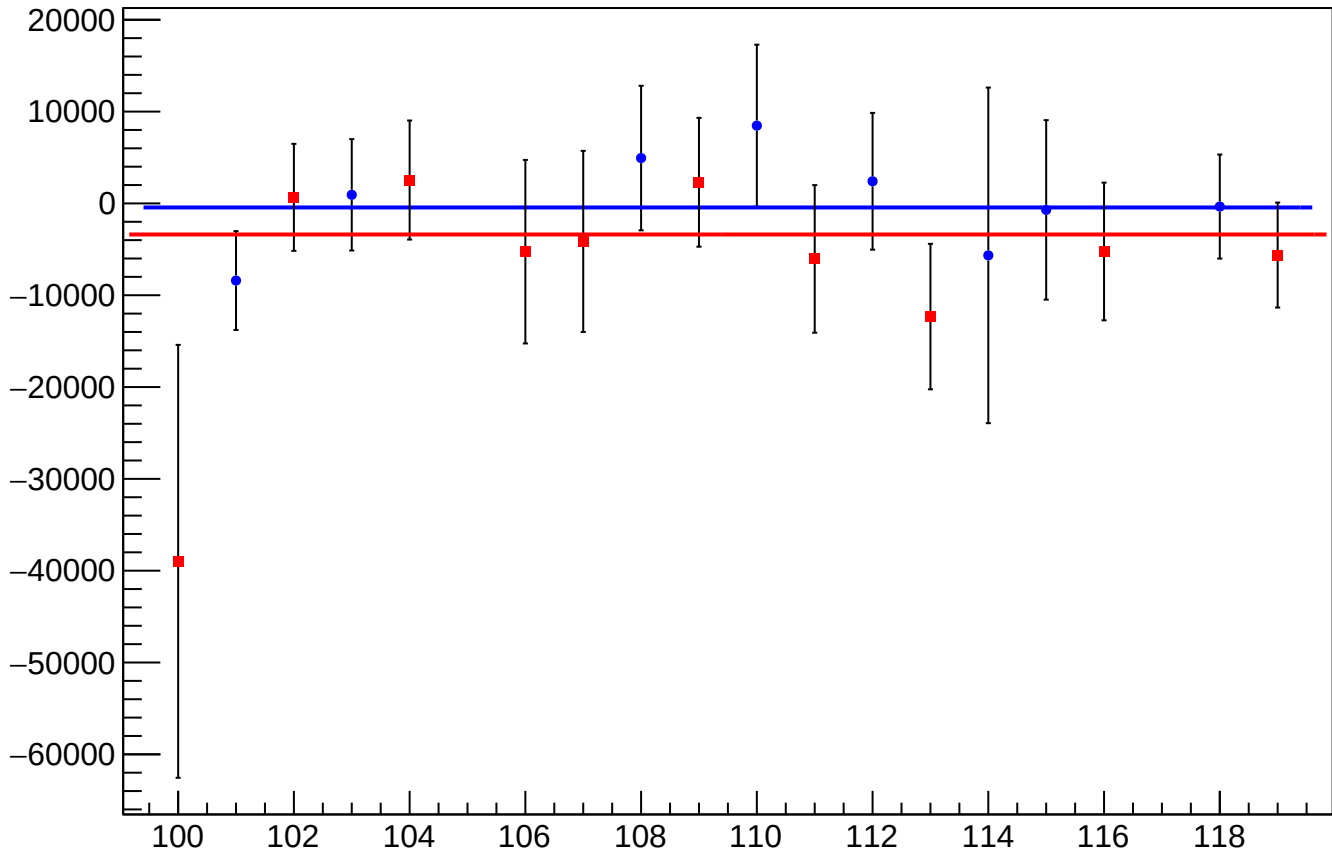
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 390.804+/-0.104  $\chi^2/\text{NDF}$ : 472386.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_cor\_correction\_mean vs Slug



Right In: -441.235+/-2553.438  $\chi^2/\text{NDF}$ : 4.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3383.522+/-2387.394  $\chi^2/\text{NDF}$ : 5.9/9

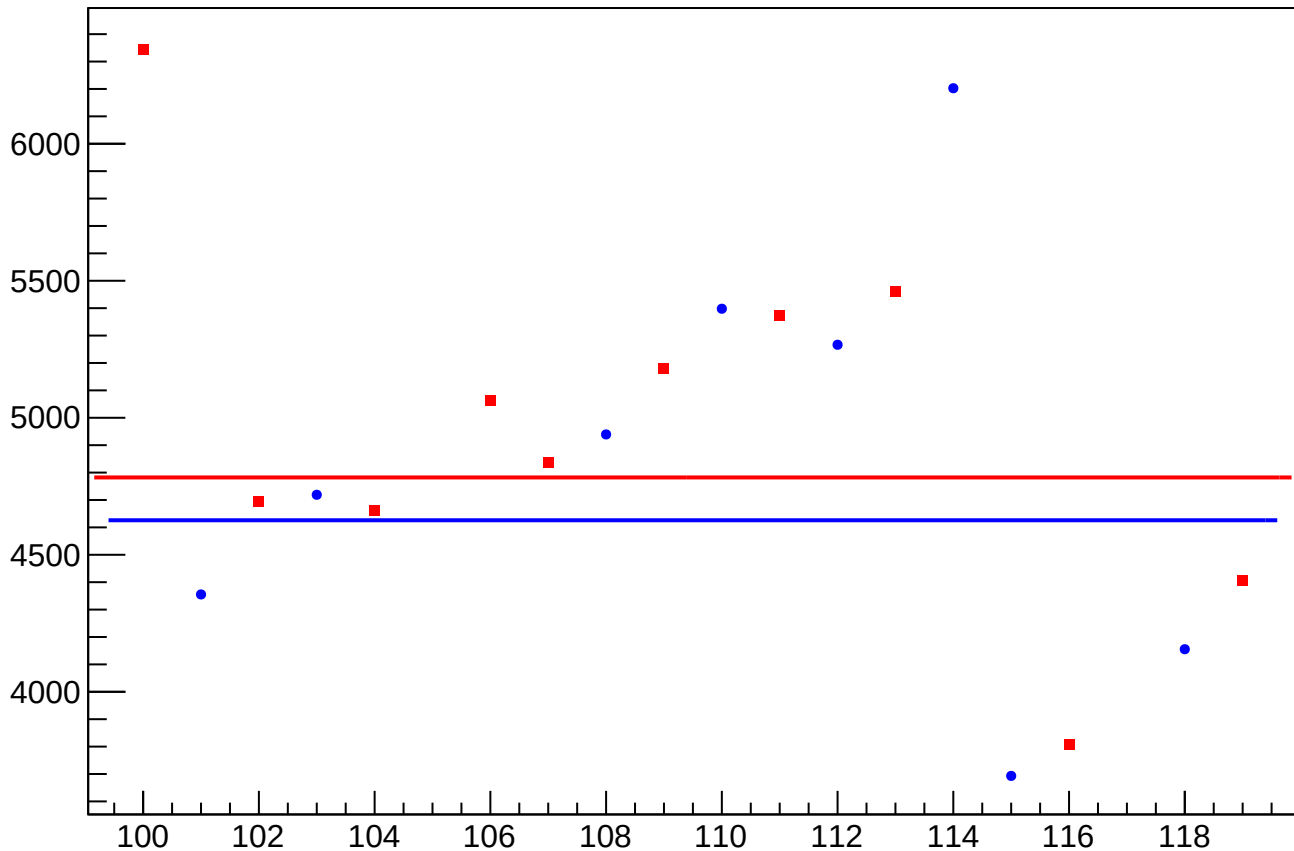
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2011.147+/-1743.891  $\chi^2/\text{NDF}$ : 10.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_cor\_correction\_rms vs Slug



Right In: 4625.971+/-1.806  $\chi^2/\text{NDF}$ : 85726.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4782.217+/-1.688  $\chi^2/\text{NDF}$ : 85830.1/9

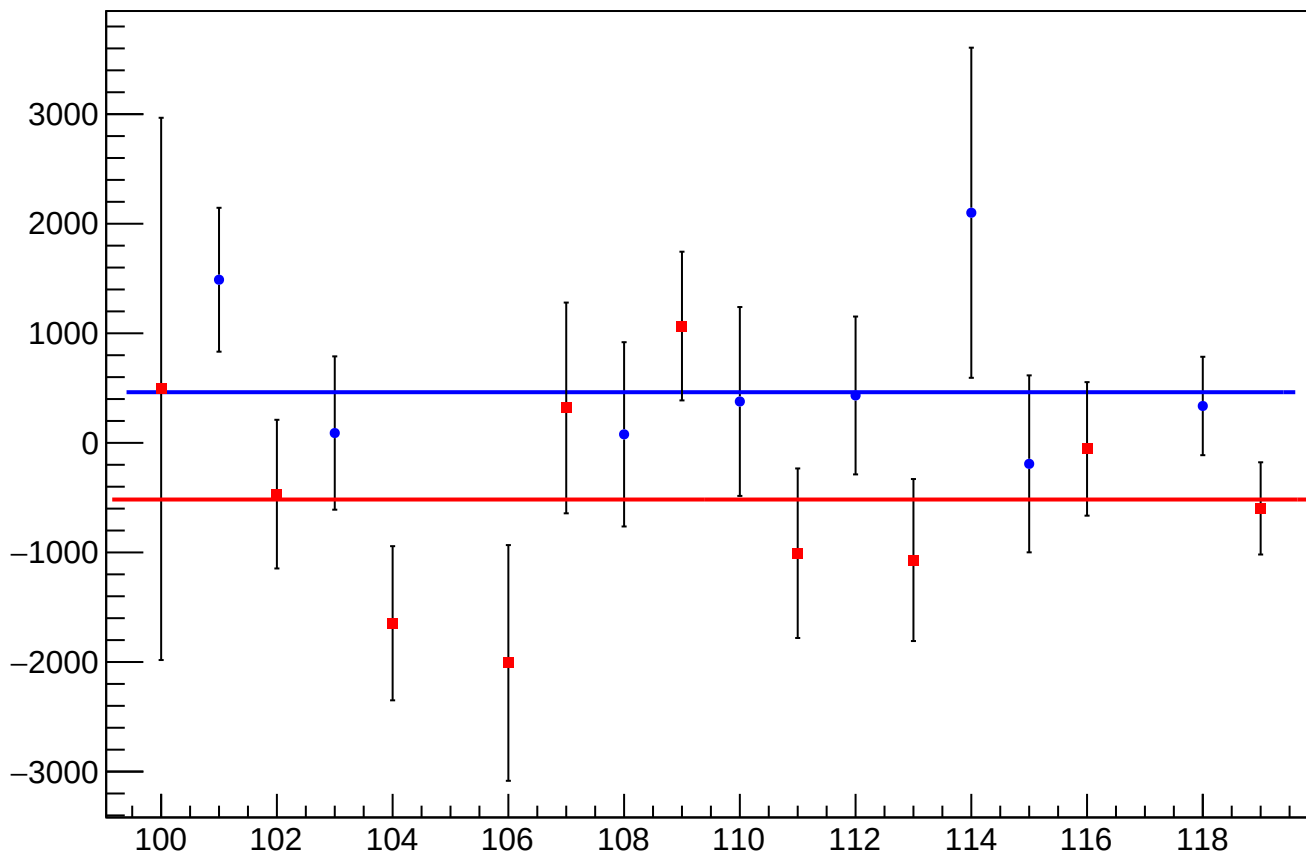
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4709.339+/-1.233  $\chi^2/\text{NDF}$ : 175552.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam2\_mean vs Slug



Right In: 462.430 $\pm$ 250.142  $\chi^2$ /NDF: 4.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -517.009 $\pm$ 221.876  $\chi^2$ /NDF: 12.4/9

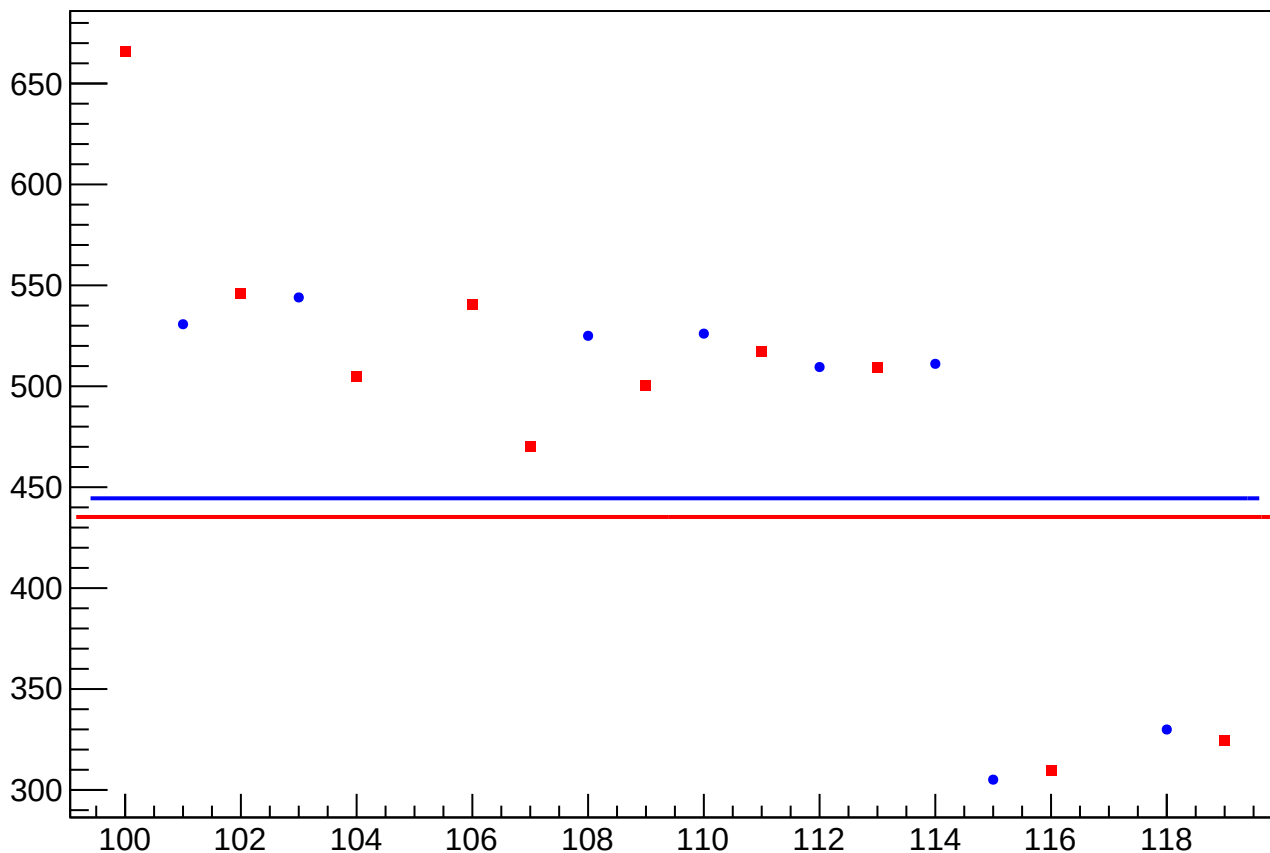
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -85.733 $\pm$ 165.988  $\chi^2$ /NDF: 25.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam2\_rms vs Slug



Right In: 444.492 $\pm$ 0.177  $\chi^2$ /NDF: 321110.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 435.244 $\pm$ 0.157  $\chi^2$ /NDF: 396146.2/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

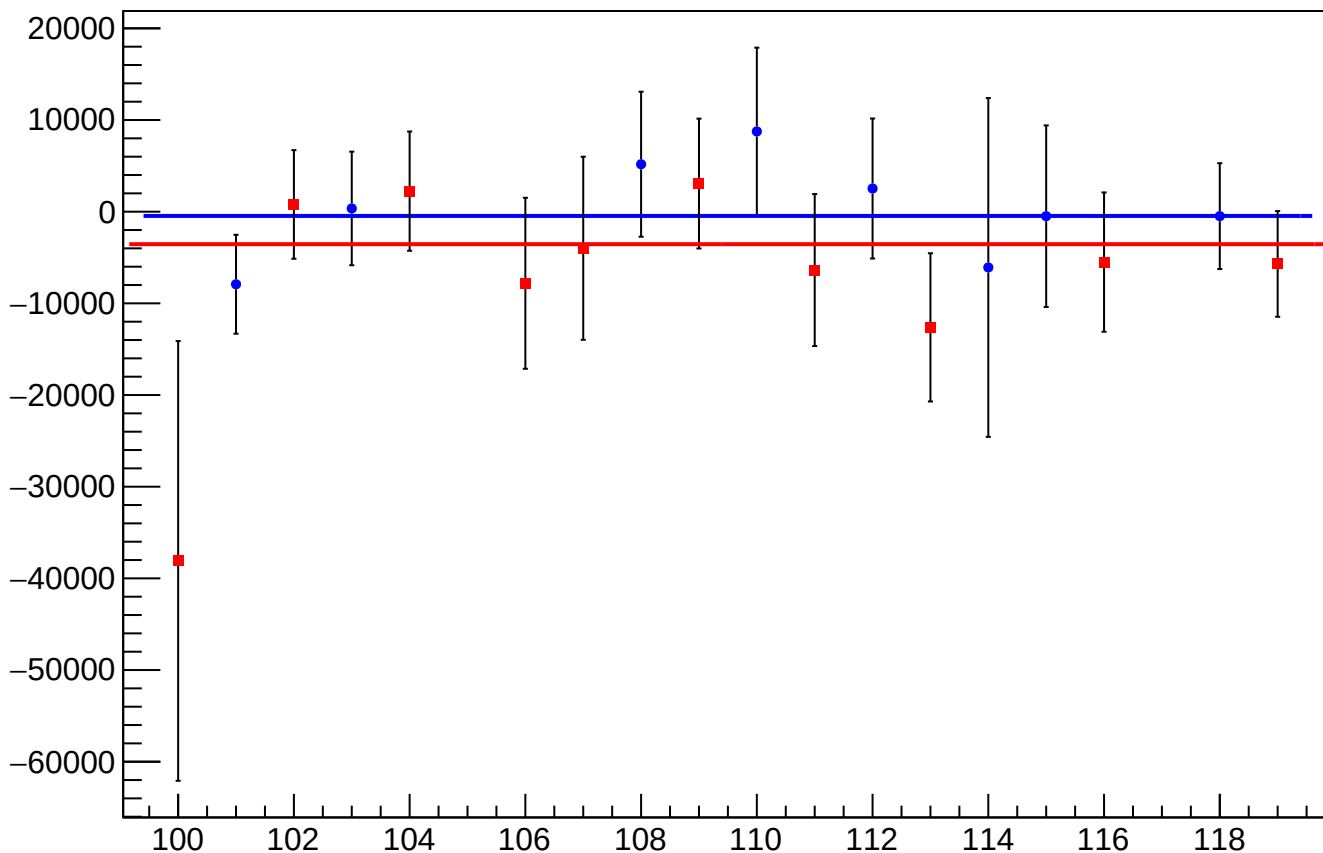
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 439.316 $\pm$ 0.117  $\chi^2$ /NDF: 718786.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam2\_dit\_correction\_mean vs Slug



Right In: -464.129+/-2593.838  $\chi^2/\text{NDF}$ : 3.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3545.336+/-2407.214  $\chi^2/\text{NDF}$ : 6.1/9

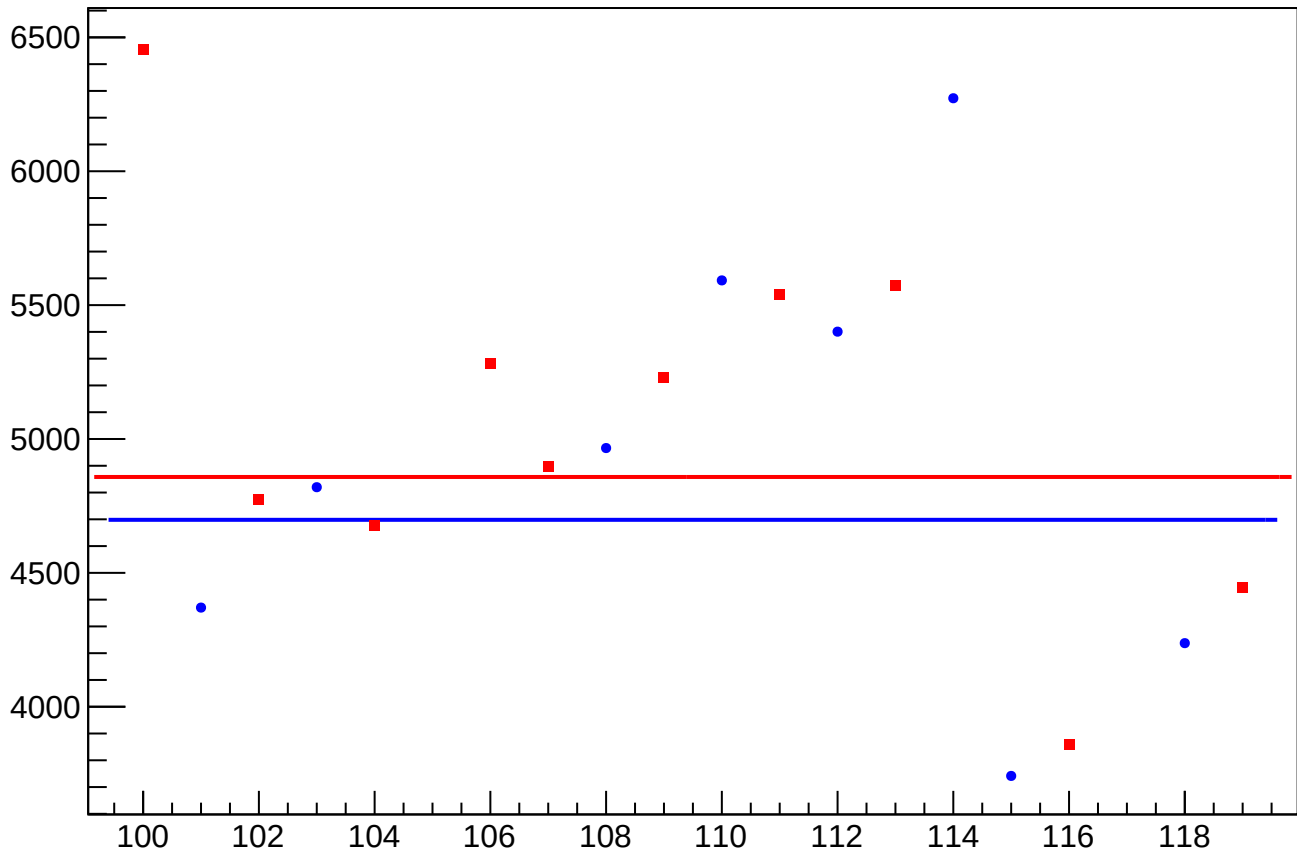
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2119.554+/-1764.449  $\chi^2/\text{NDF}$ : 10.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_dit\_correction\_rms vs Slug



Right In: 4698.104+/-1.834  $\chi^2/\text{NDF}$ : 92461.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4858.154+/-1.702  $\chi^2/\text{NDF}$ : 94374.9/9

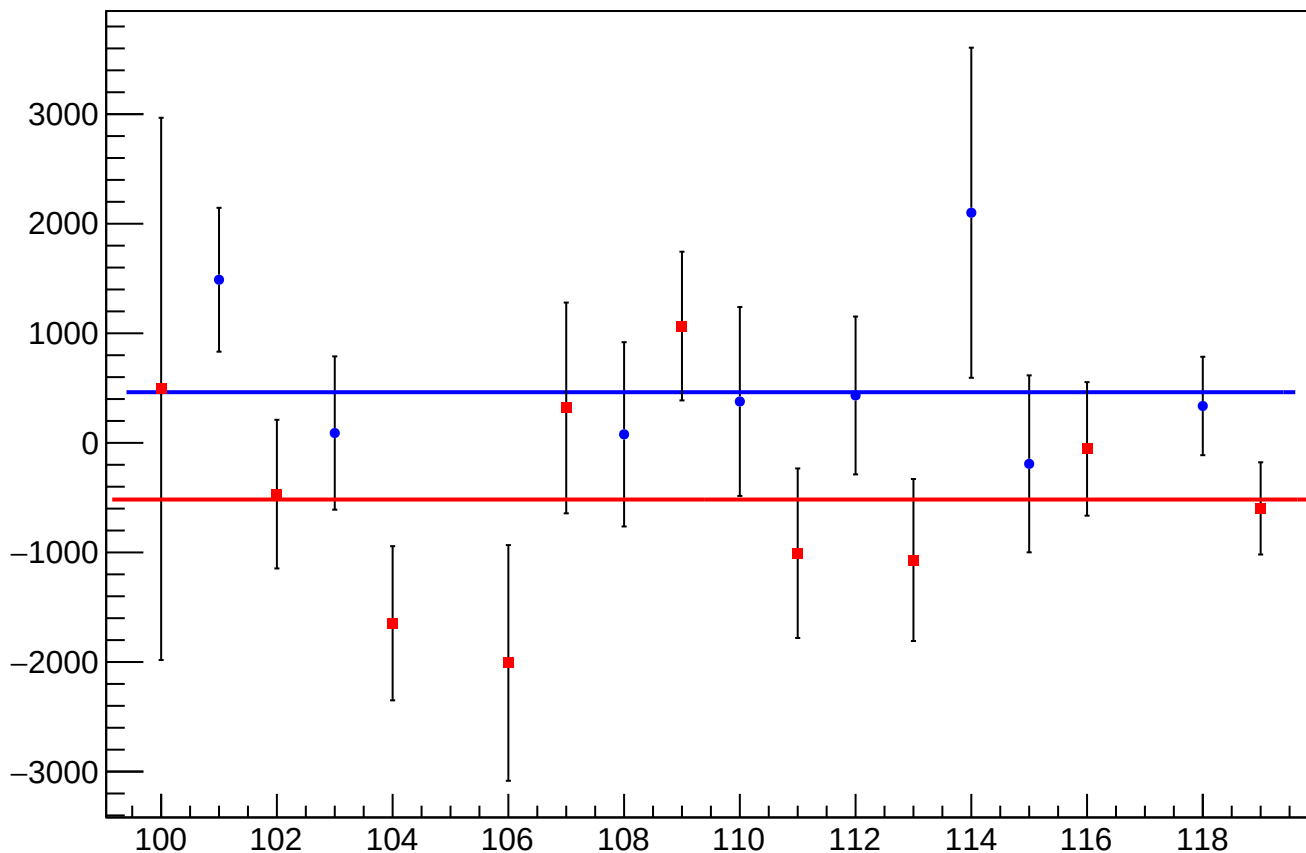
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4784.093+/-1.248  $\chi^2/\text{NDF}$ : 190927.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam2\_mean vs Slug



Right In: 462.426 $\pm$ 250.141  $\chi^2$ /NDF: 4.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -516.999 $\pm$ 221.875  $\chi^2$ /NDF: 12.4/9

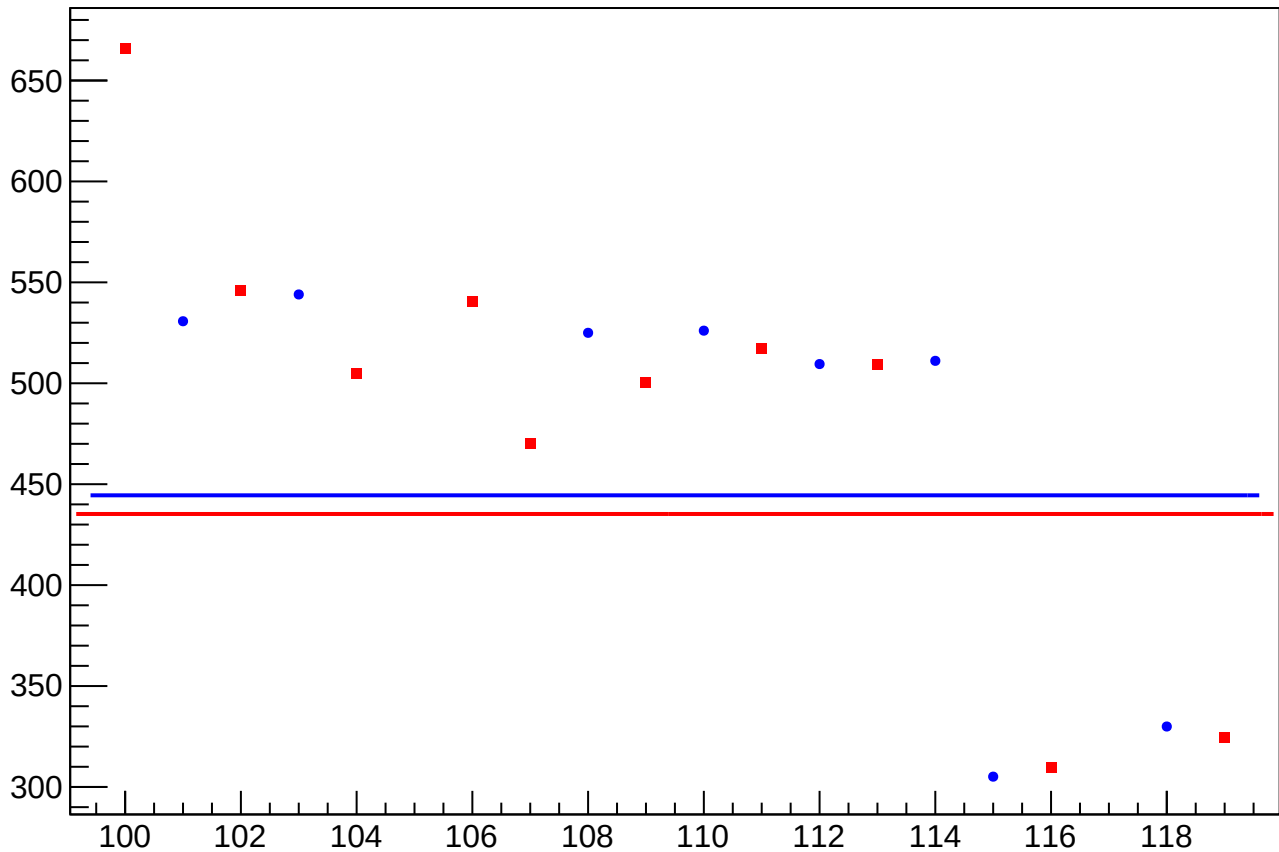
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -85.728 $\pm$ 165.987  $\chi^2$ /NDF: 25.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam2\_rms vs Slug



Right In: 444.489+/-0.177  $\chi^2/\text{NDF}$ : 321105.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 435.243+/-0.157  $\chi^2/\text{NDF}$ : 396133.0/9

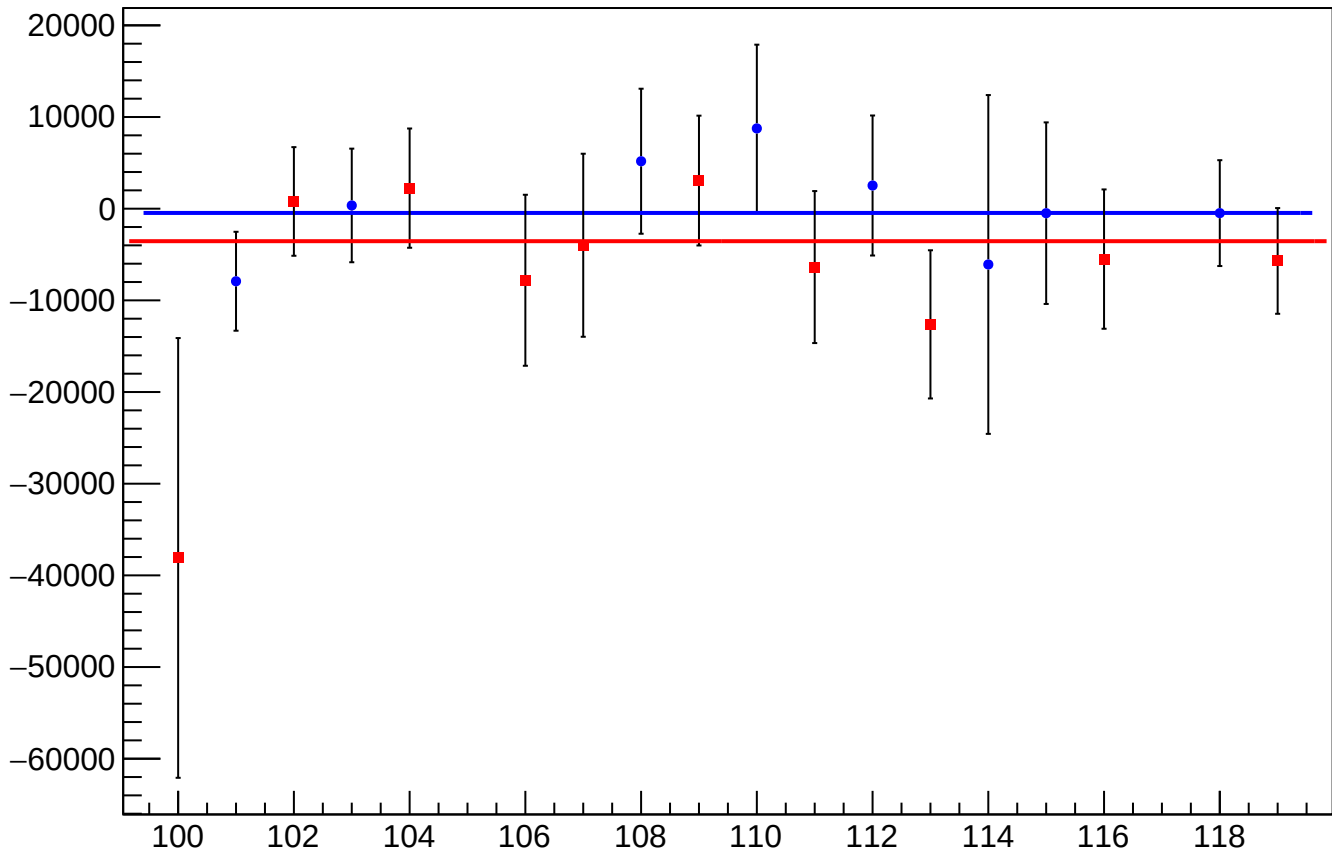
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 439.314+/-0.117  $\chi^2/\text{NDF}$ : 718768.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_dit\_correction\_mean vs Slug



Right In: -464.126 $\pm$ 2593.831  $\chi^2$ /NDF: 3.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3545.330 $\pm$ 2407.208  $\chi^2$ /NDF: 6.1/9

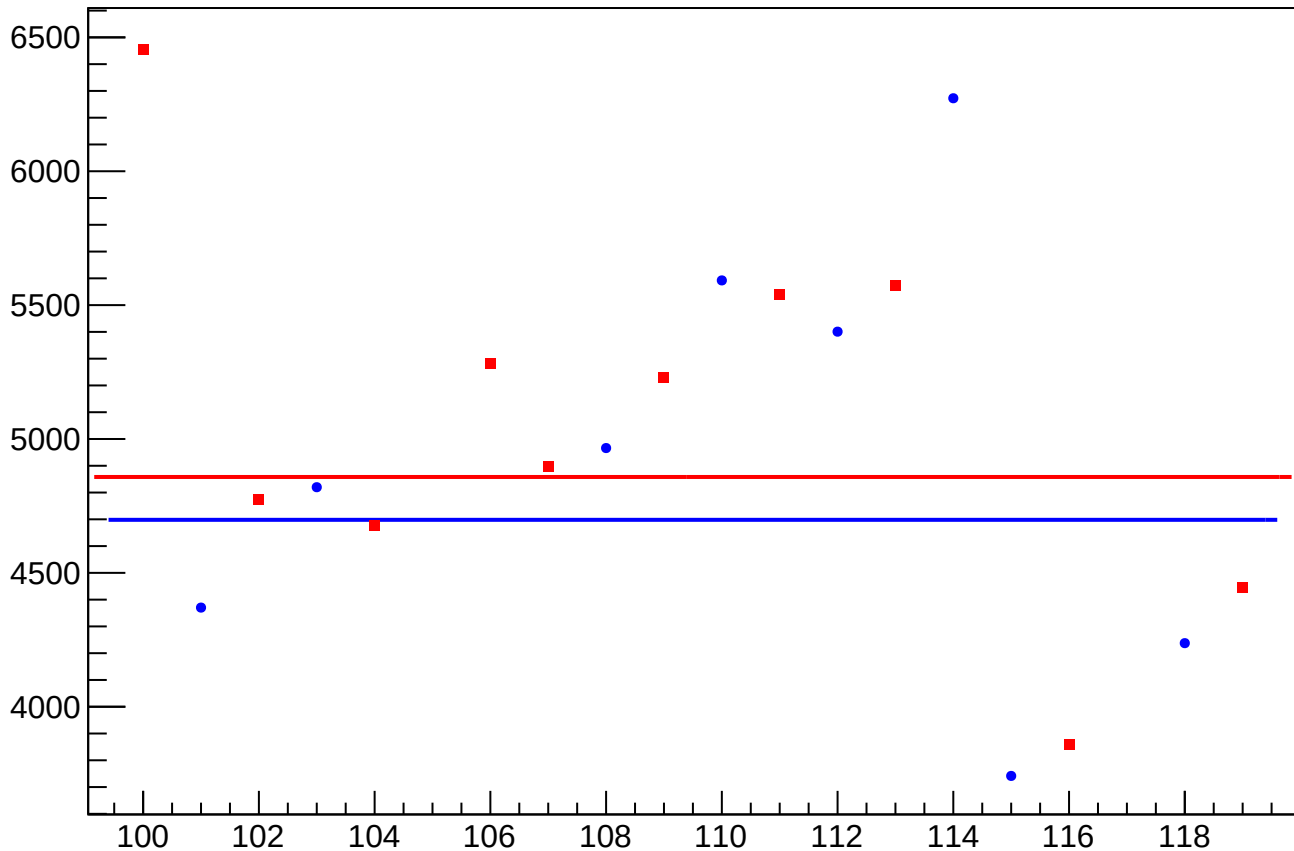
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2119.549 $\pm$ 1764.444  $\chi^2$ /NDF: 10.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_eigen\_dit\_correction\_rms vs Slug



Right In: 4698.093+/-1.834  $\chi^2/\text{NDF}$ : 92458.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4858.142+/-1.702  $\chi^2/\text{NDF}$ : 94372.9/9

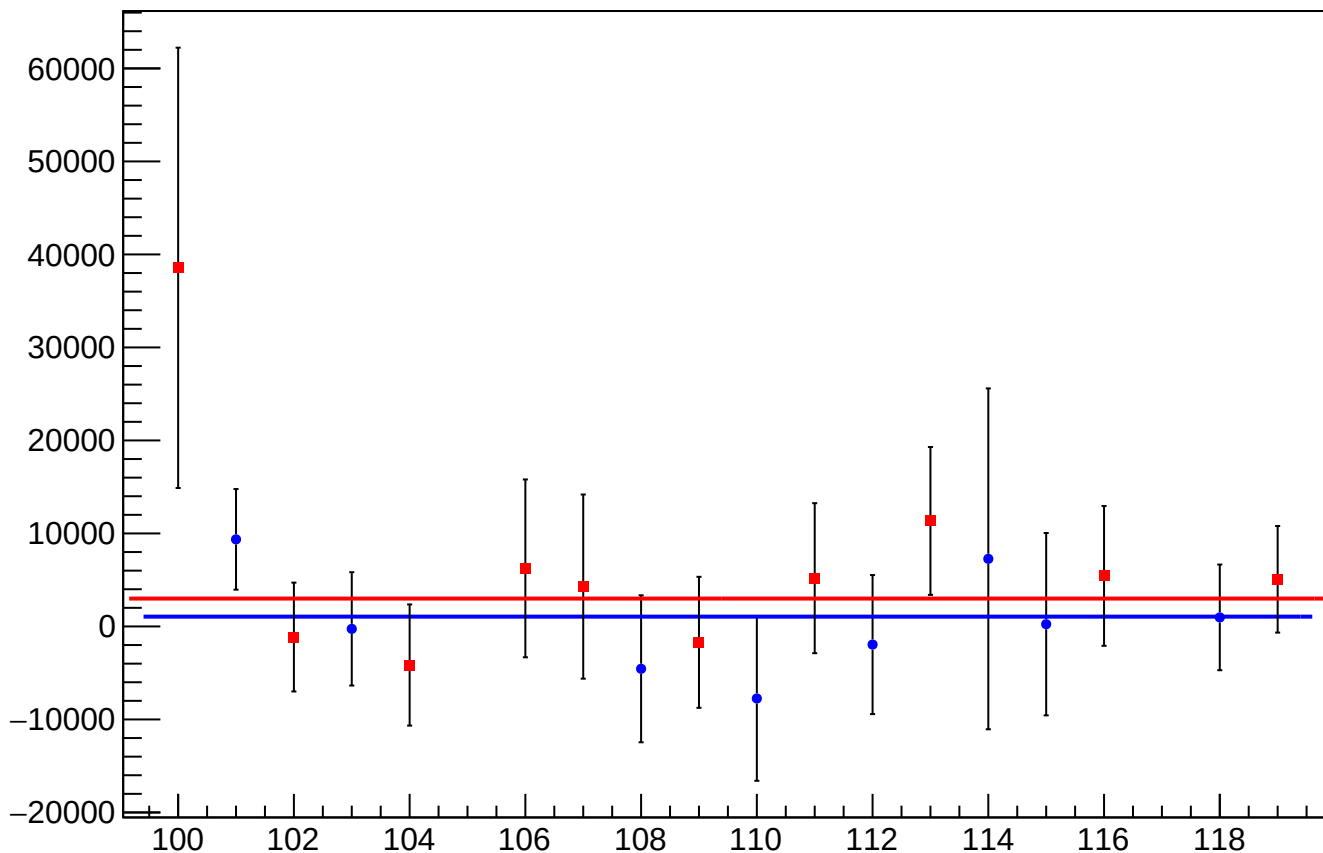
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4784.081+/-1.248  $\chi^2/\text{NDF}$ : 190922.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_mean vs Slug



Right In: 1054.926+/-2563.677  $\chi^2/\text{NDF}$ : 4.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2996.797+/-2389.082  $\chi^2/\text{NDF}$ : 6.0/9

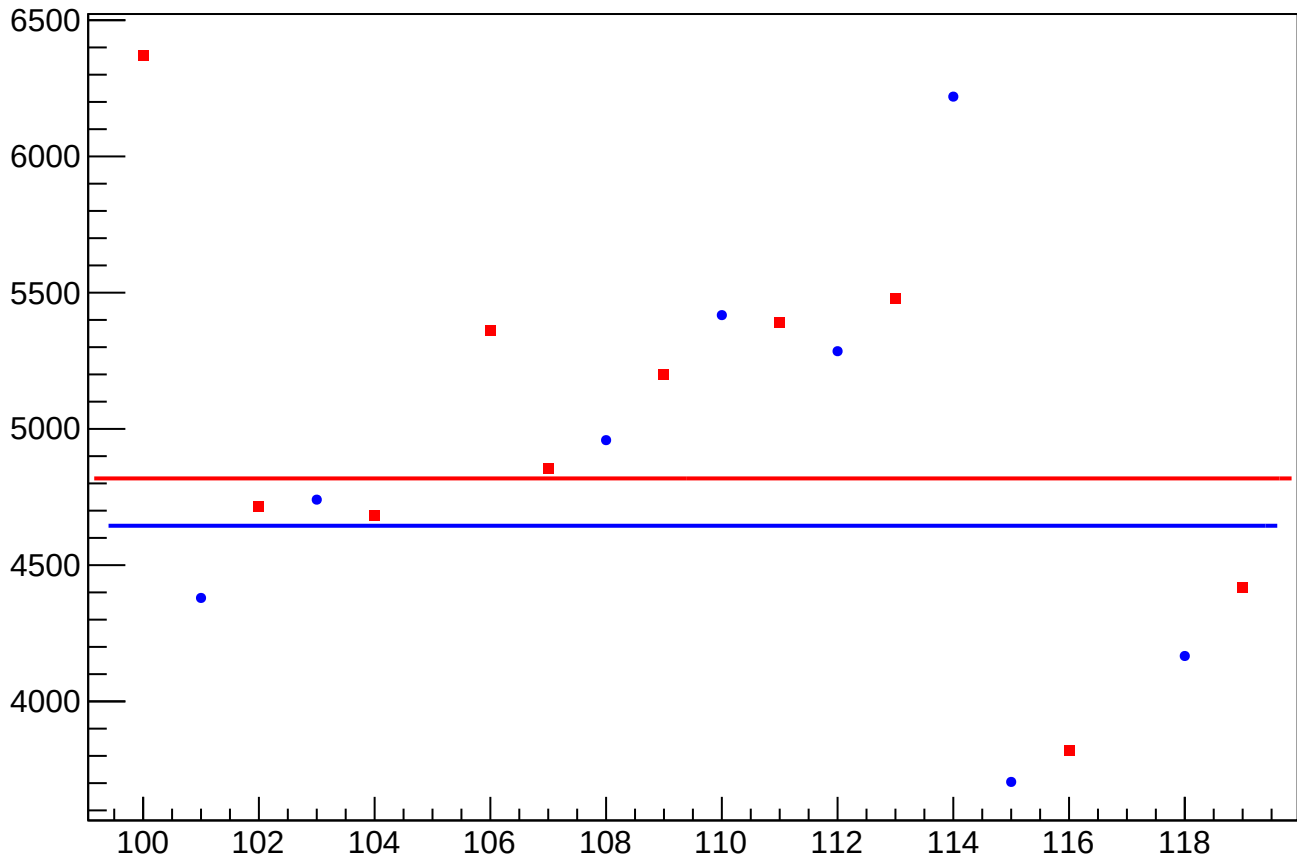
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2094.231+/-1747.803  $\chi^2/\text{NDF}$ : 10.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_rms vs Slug



Right In: 4644.594+/-1.813  $\chi^2/\text{NDF}$ : 85722.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4818.298+/-1.689  $\chi^2/\text{NDF}$ : 91453.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

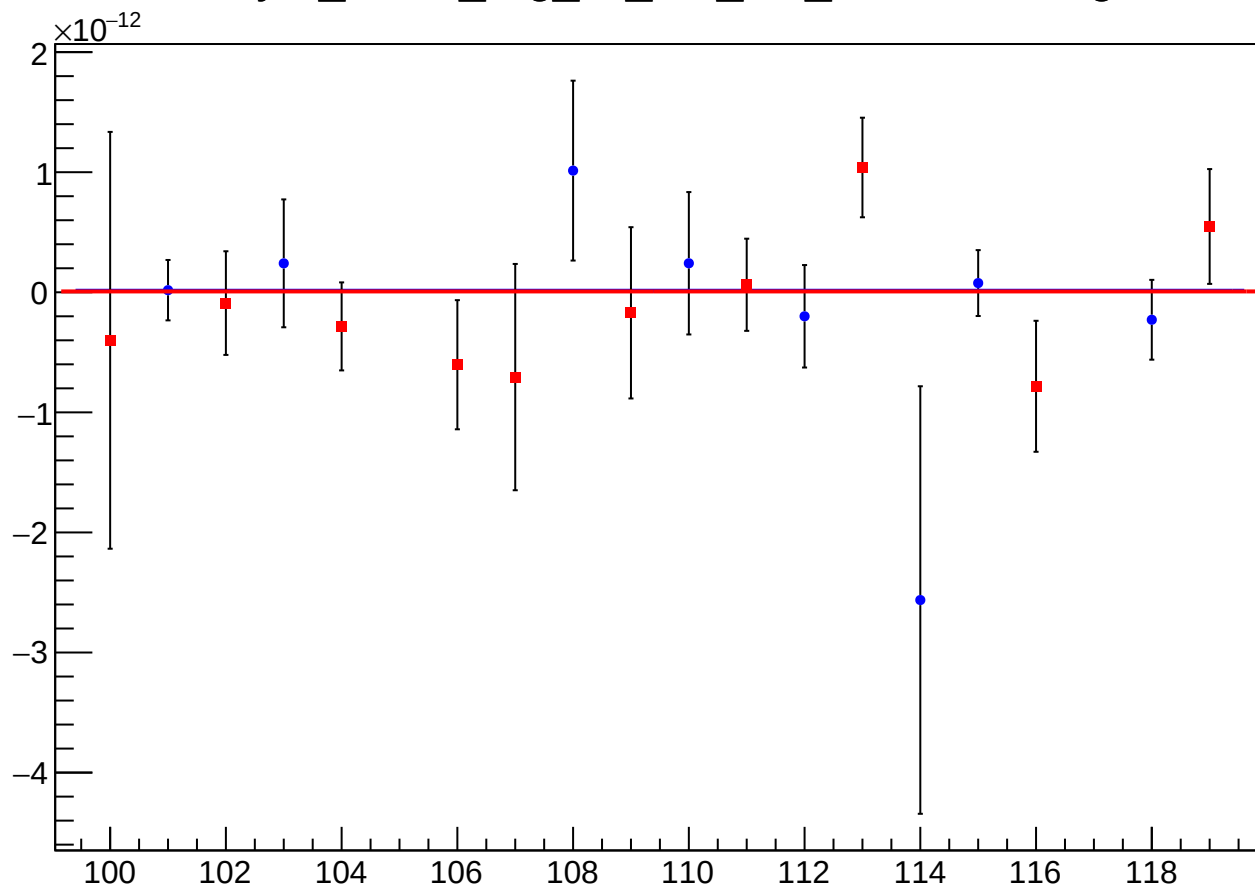
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4737.561+/-1.236  $\chi^2/\text{NDF}$ : 182090.5/17

- 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: 5.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.3/9

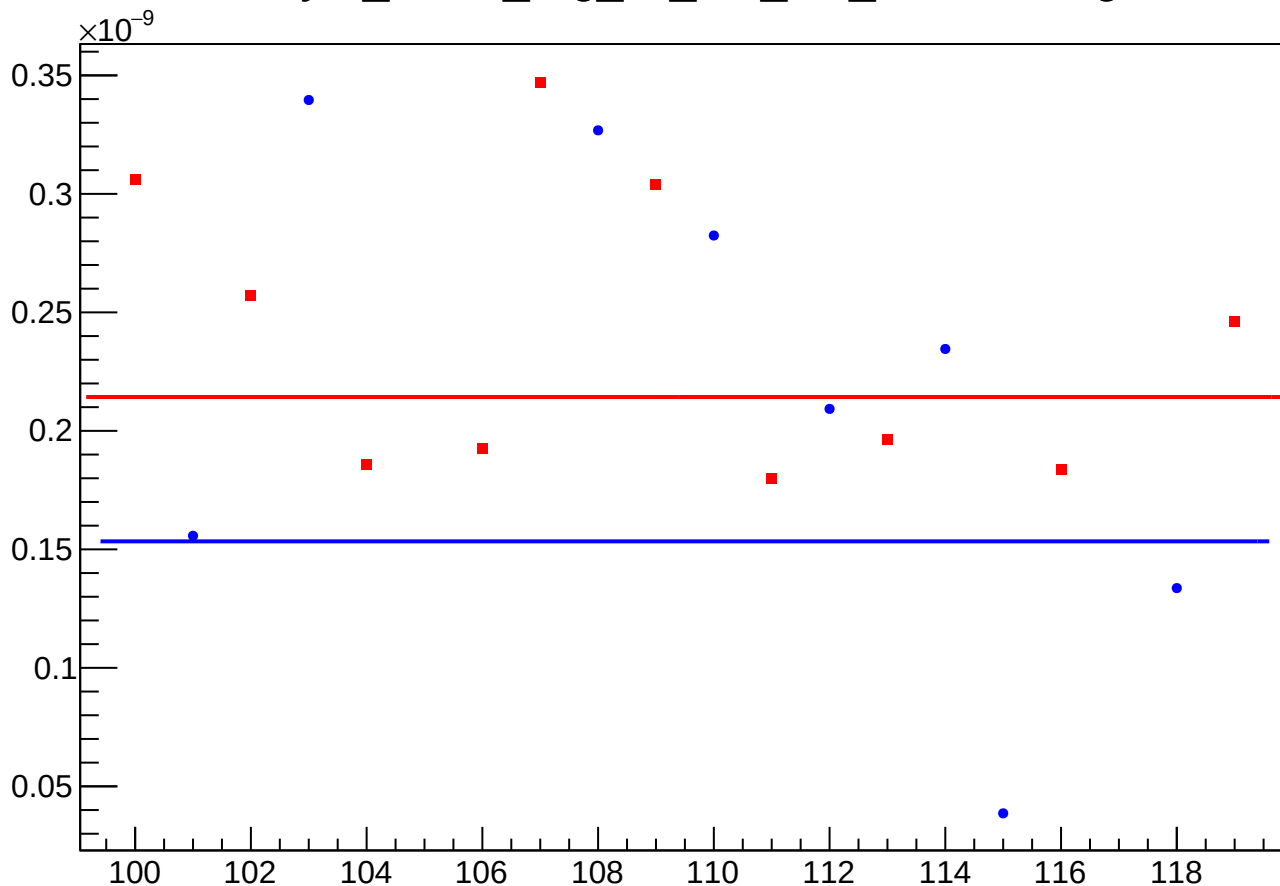
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.3/17

- 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: 842201.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 146866.1/9

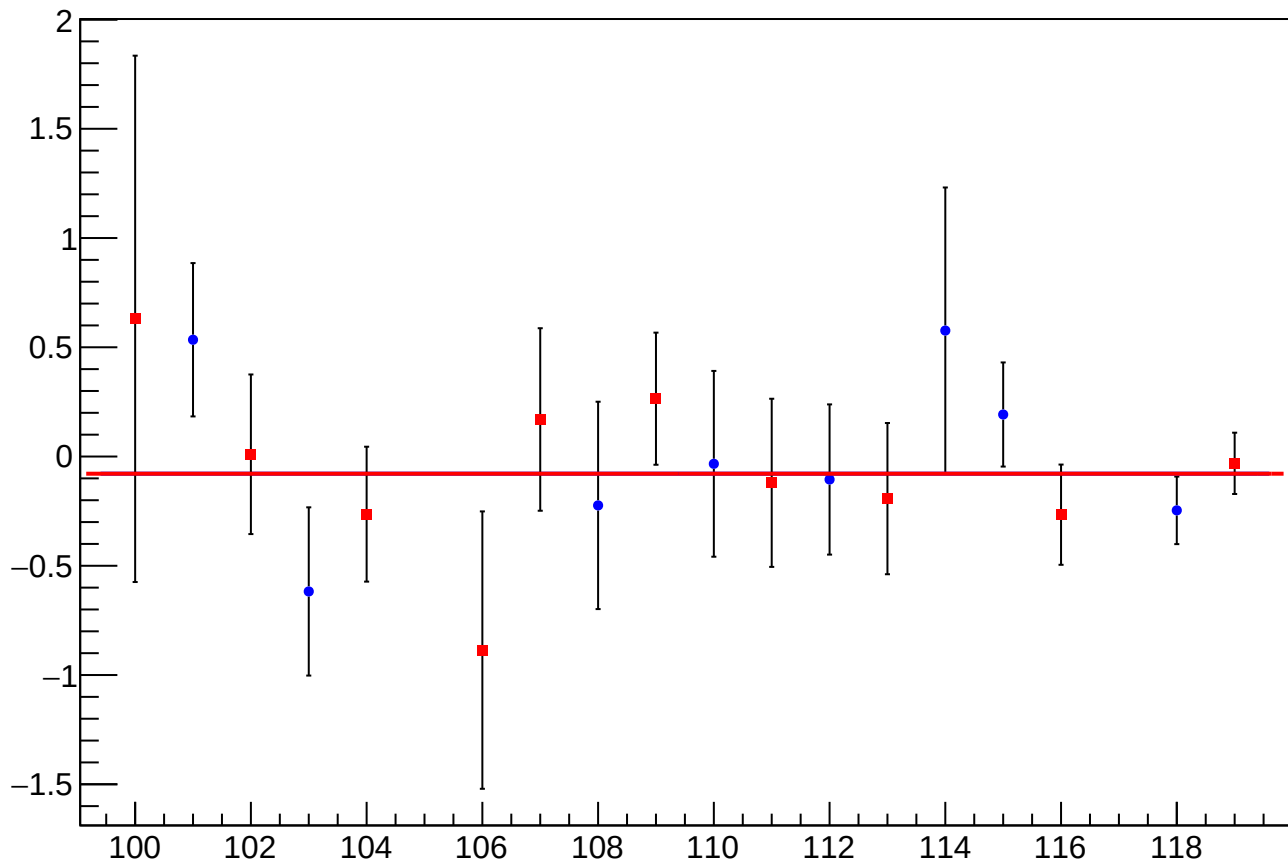
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1157073.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.079 $\pm$ 0.103  $\chi^2$ /NDF: 8.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.079 $\pm$ 0.090  $\chi^2$ /NDF: 4.9/9

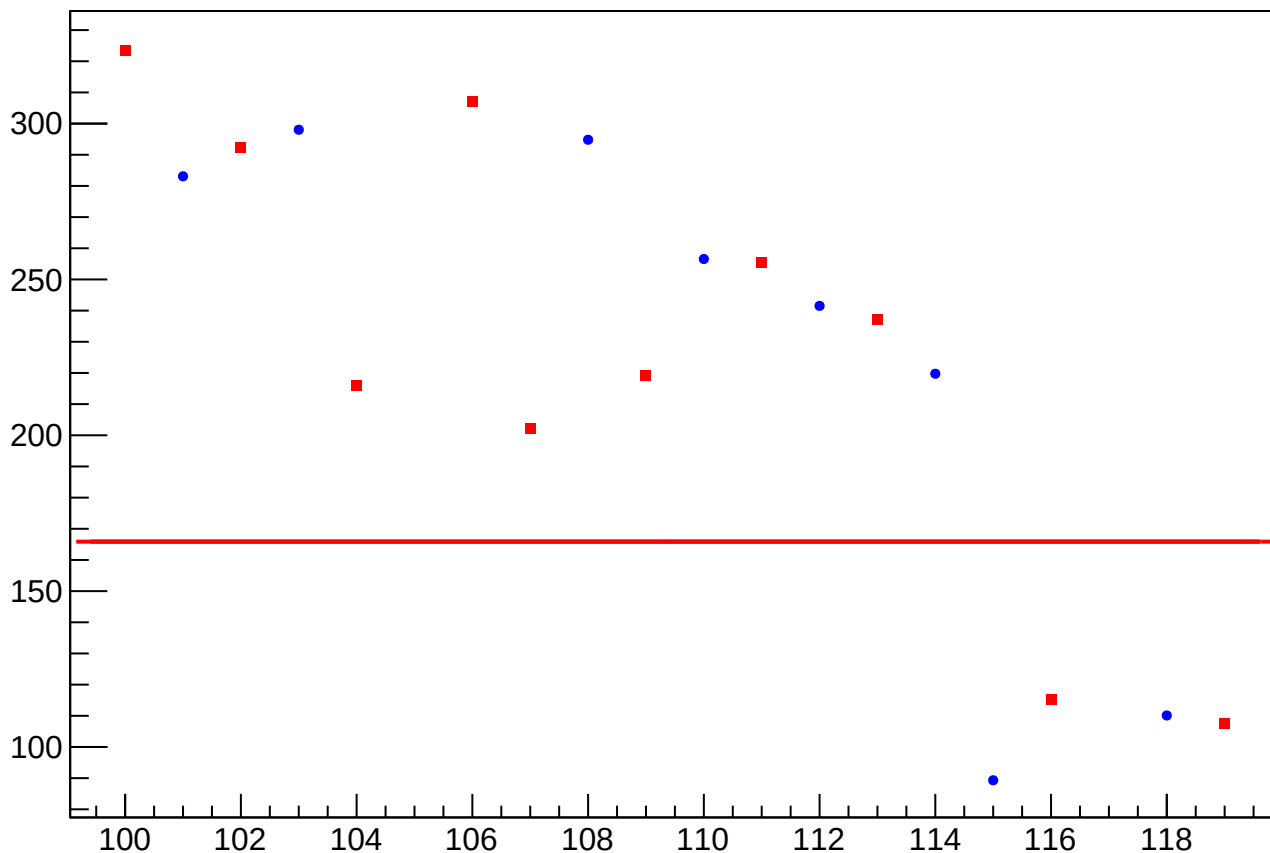
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.079 $\pm$ 0.068  $\chi^2$ /NDF: 13.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 165.891+/-0.073  $\chi^2/\text{NDF}$ : 1274660.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 165.879+/-0.064  $\chi^2/\text{NDF}$ : 1139111.0/9

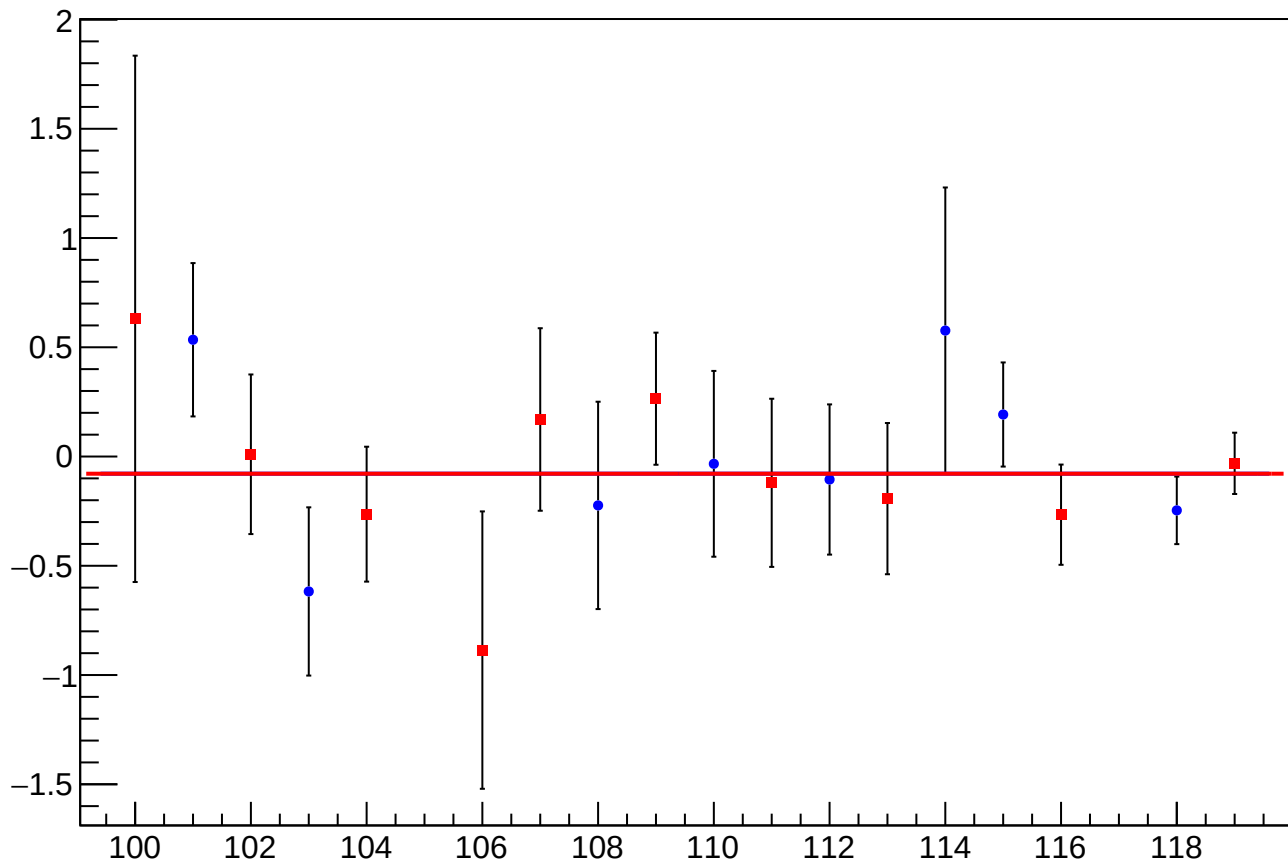
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 165.884+/-0.048  $\chi^2/\text{NDF}$ : 2413771.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam2\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.079+/-0.103  $\chi^2/\text{NDF}$ : 8.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.079+/-0.090  $\chi^2/\text{NDF}$ : 4.9/9

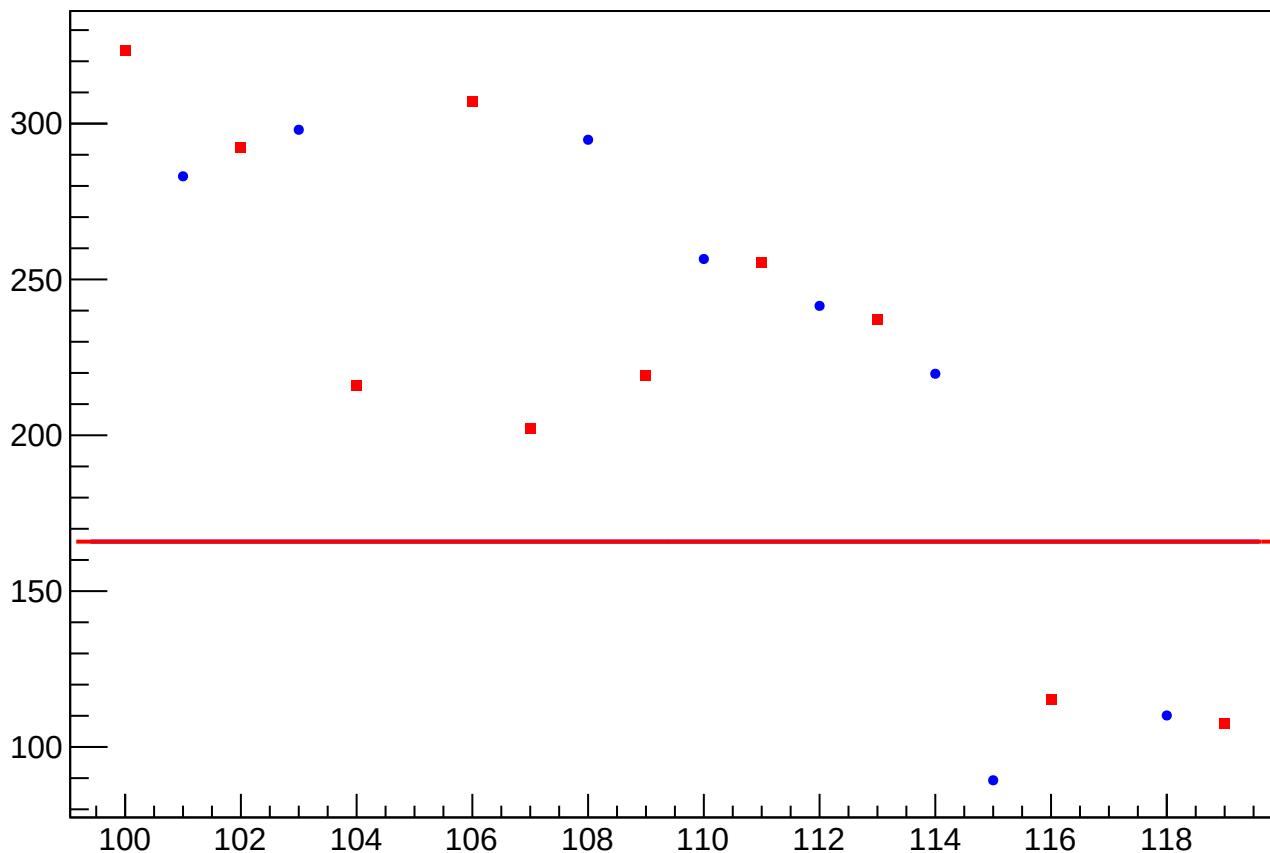
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.079+/-0.068  $\chi^2/\text{NDF}$ : 13.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 165.891+/-0.073  $\chi^2/\text{NDF}$ : 1274660.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 165.879+/-0.064  $\chi^2/\text{NDF}$ : 1139111.0/9

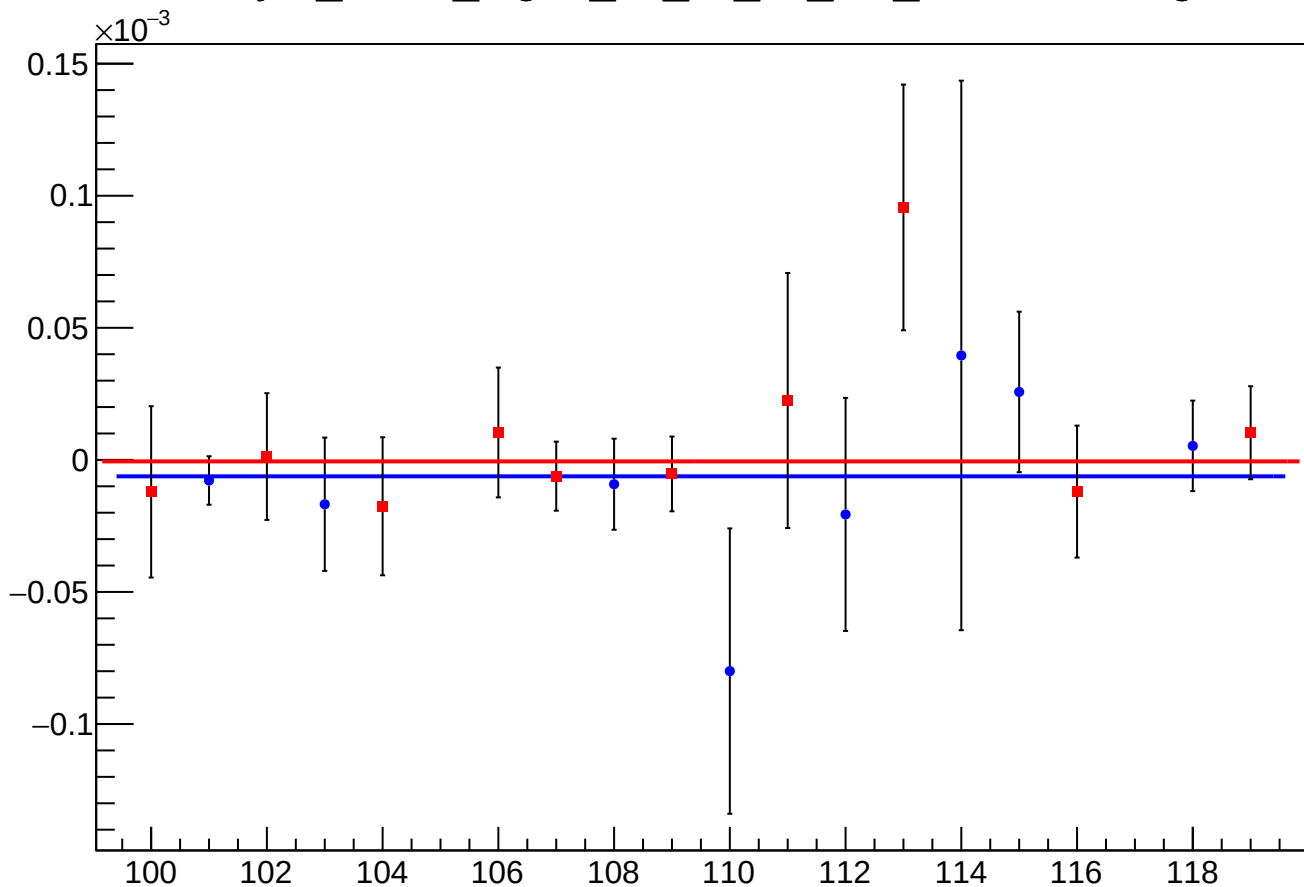
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 165.884+/-0.048  $\chi^2/\text{NDF}$ : 2413771.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam2\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.1/9

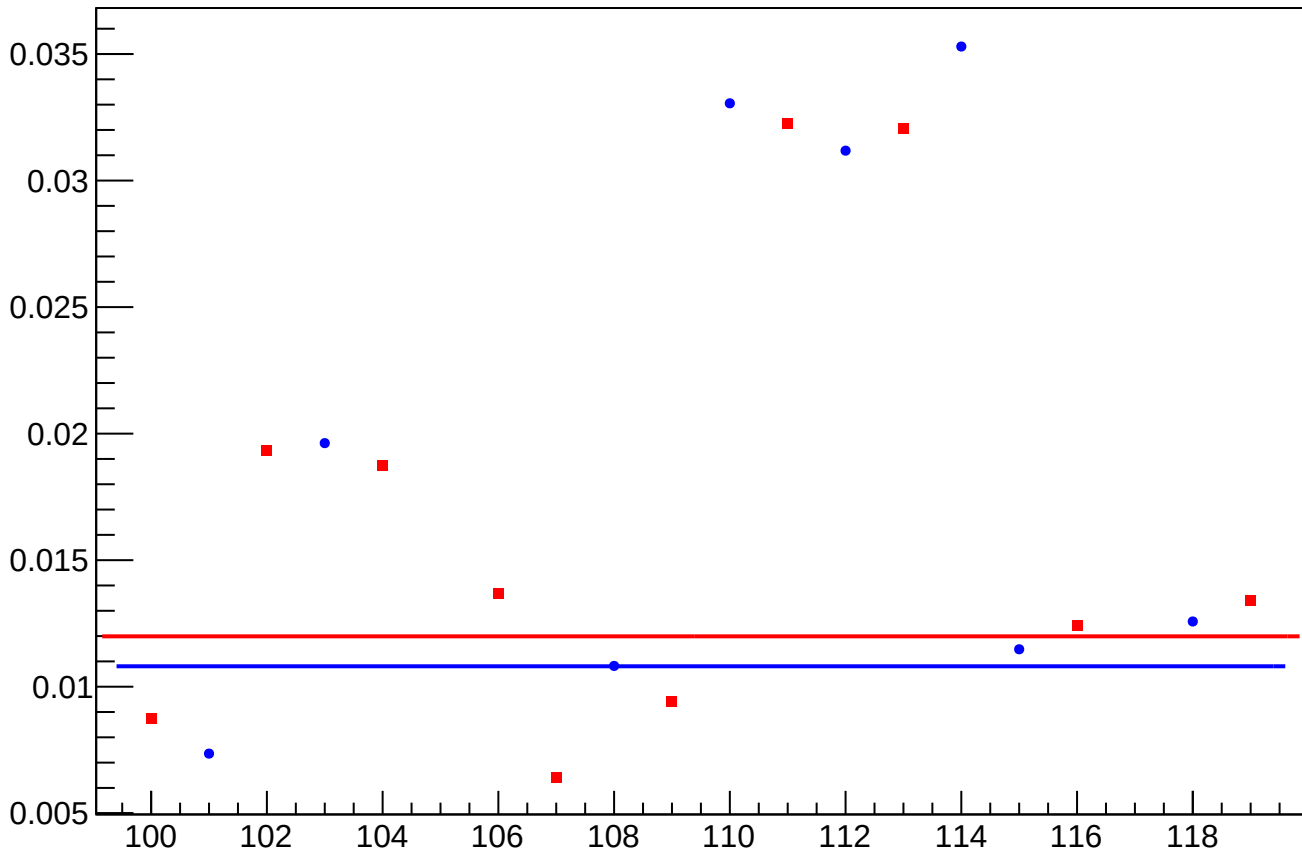
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 1426422.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 1519627.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

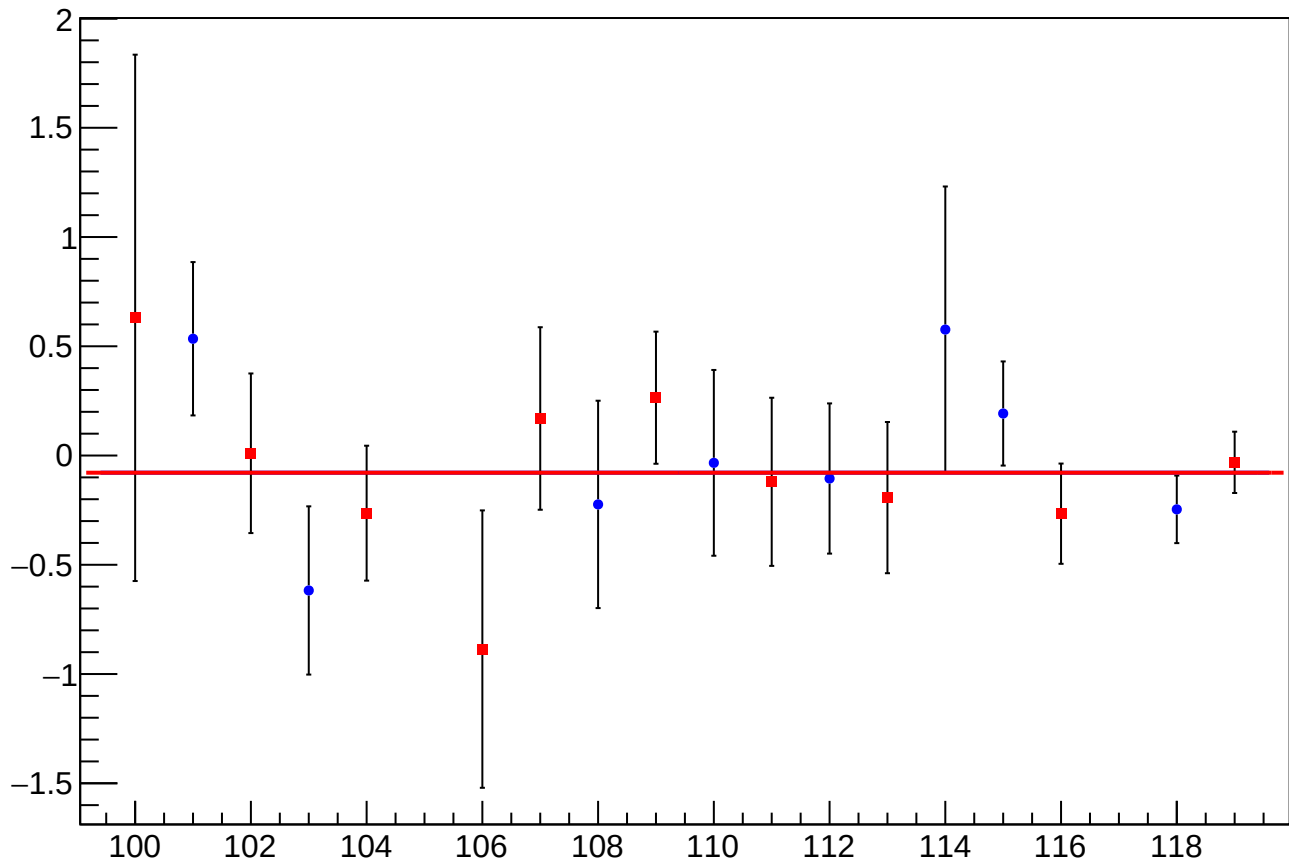
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 2977300.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam2\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.079+/-0.103  $\chi^2/\text{NDF}$ : 8.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.079+/-0.090  $\chi^2/\text{NDF}$ : 4.9/9

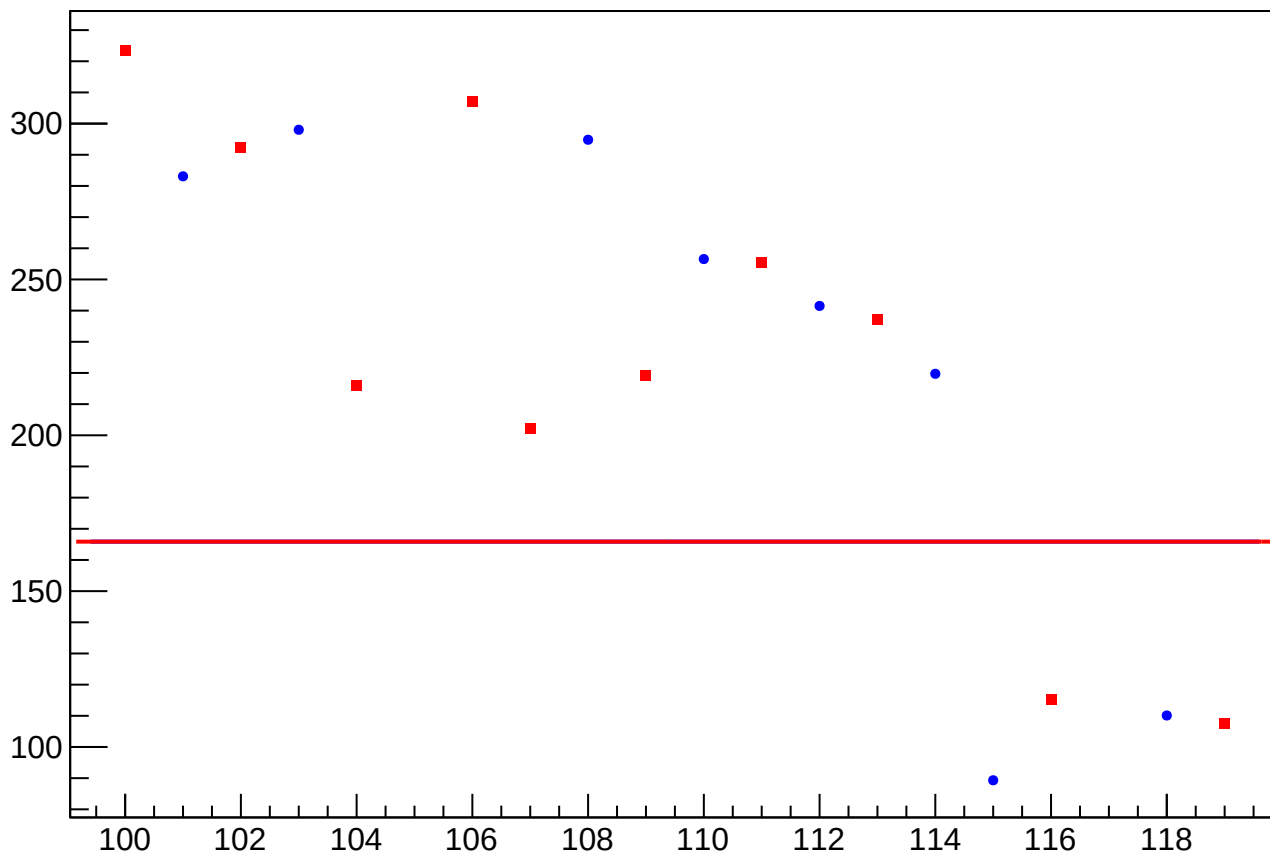
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.079+/-0.068  $\chi^2/\text{NDF}$ : 13.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 165.889+/-0.073  $\chi^2/\text{NDF}$ : 1274588.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 165.878+/-0.064  $\chi^2/\text{NDF}$ : 1139058.4/9

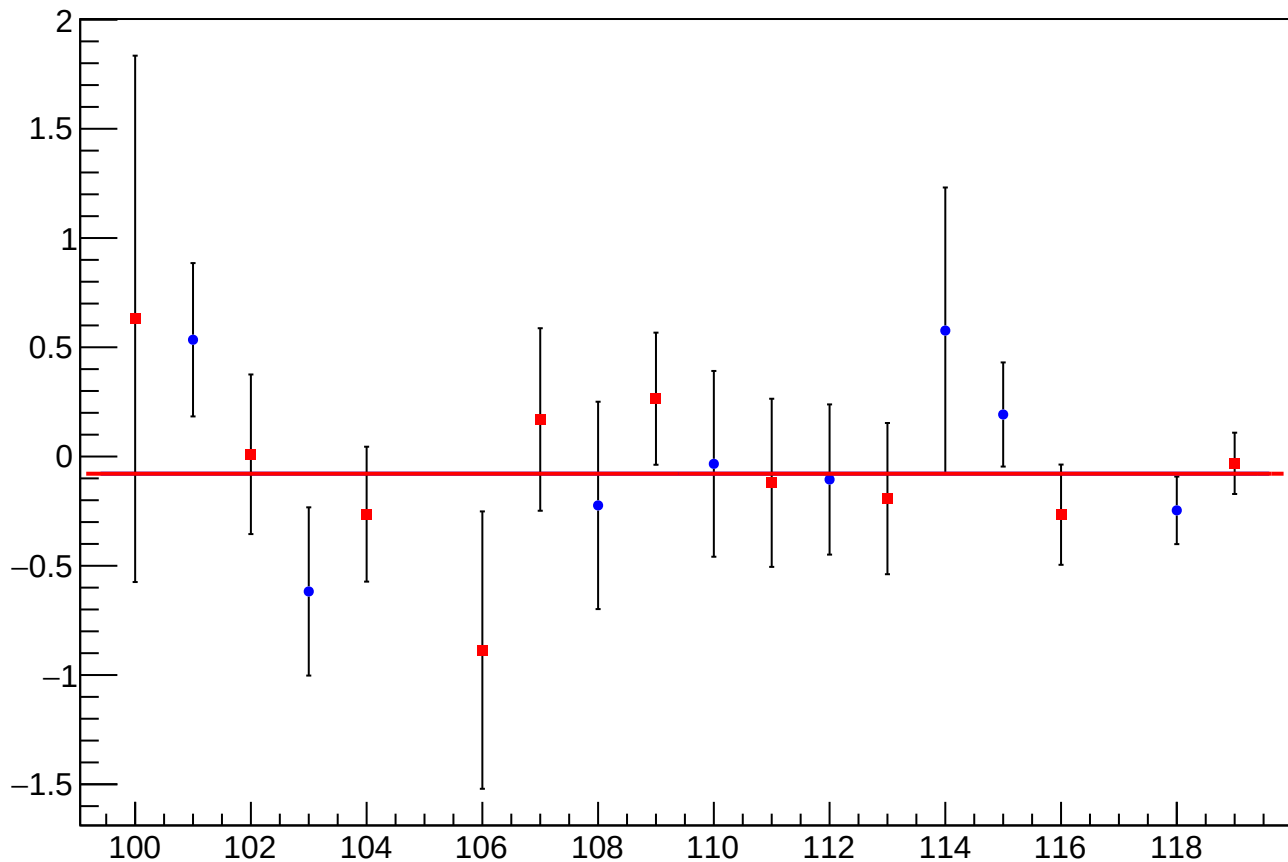
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 165.883+/-0.048  $\chi^2/\text{NDF}$ : 2413647.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam2\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.079+/-0.103  $\chi^2/\text{NDF}$ : 8.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.079+/-0.090  $\chi^2/\text{NDF}$ : 4.9/9

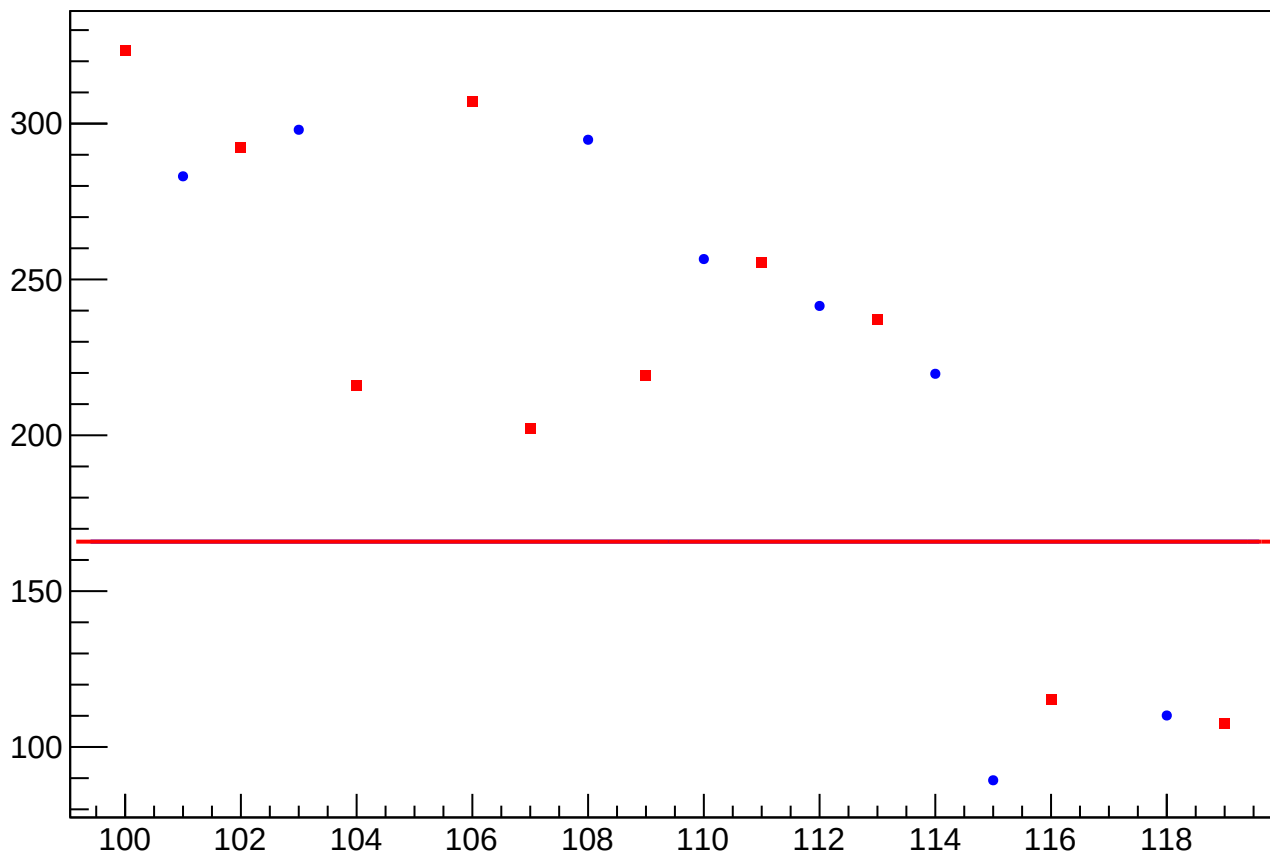
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.079+/-0.068  $\chi^2/\text{NDF}$ : 13.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam2\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 165.889+/-0.073  $\chi^2/\text{NDF}$ : 1274588.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 165.878+/-0.064  $\chi^2/\text{NDF}$ : 1139058.4/9

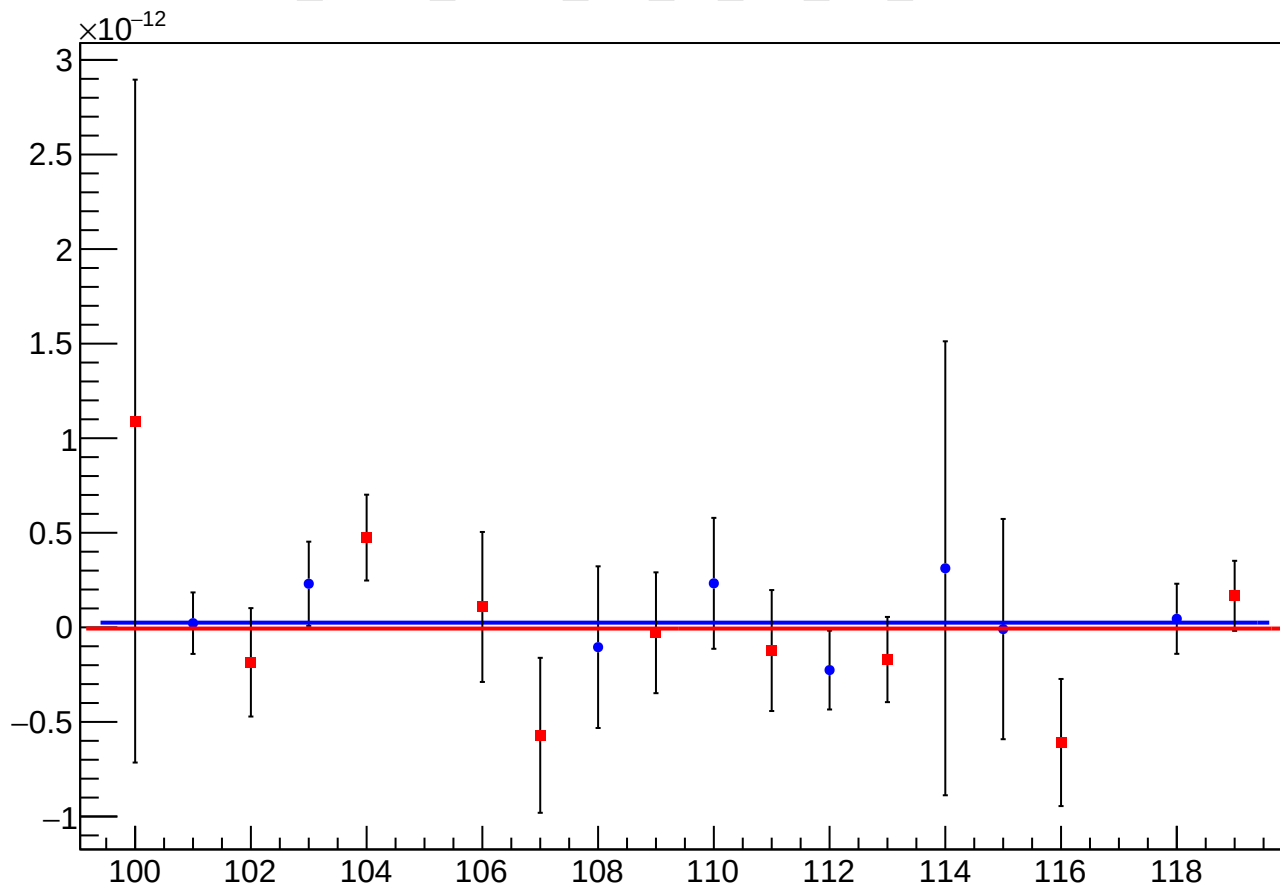
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 165.883+/-0.048  $\chi^2/\text{NDF}$ : 2413647.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.0/9

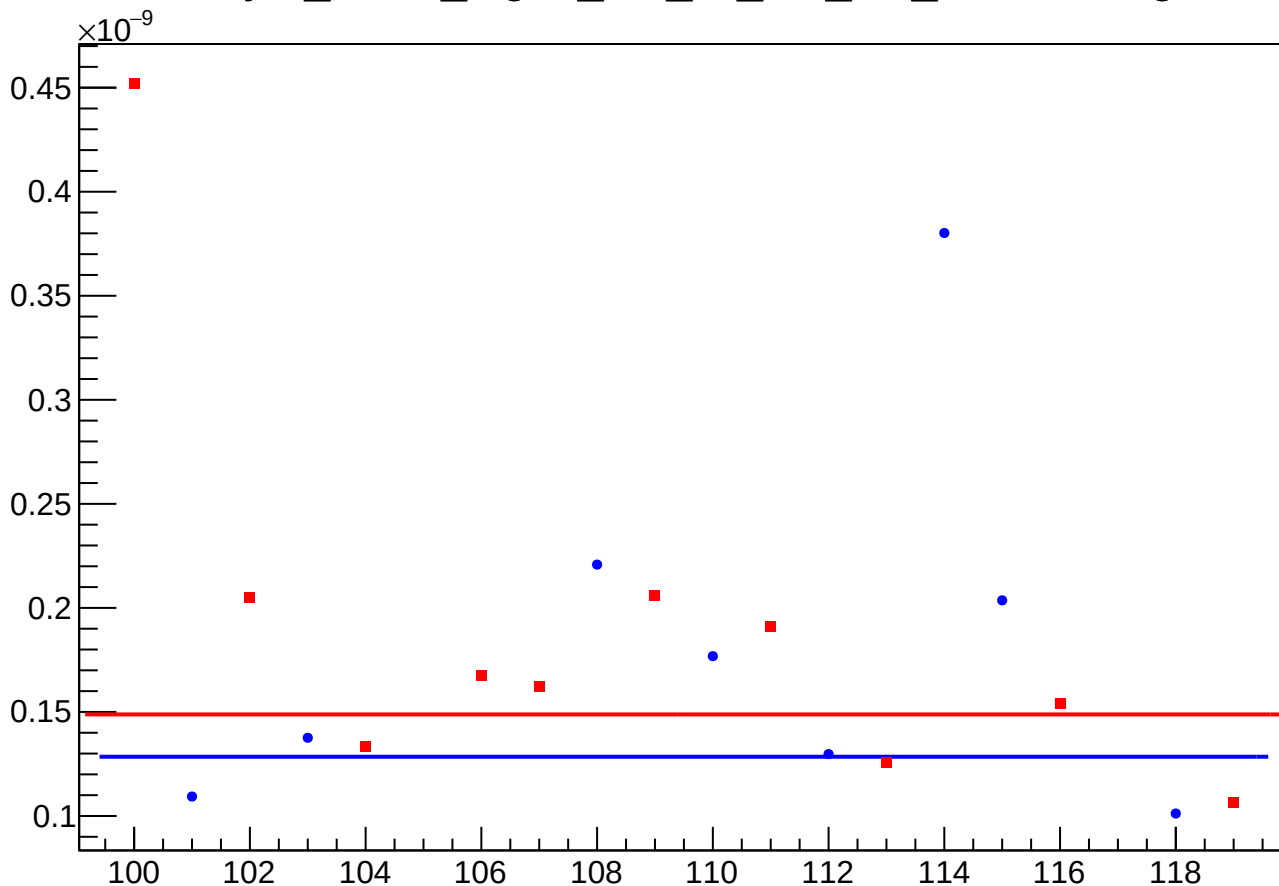
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.9/17

- 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  $\chi^2/\text{NDF}$ : 328168.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 375263.0/9

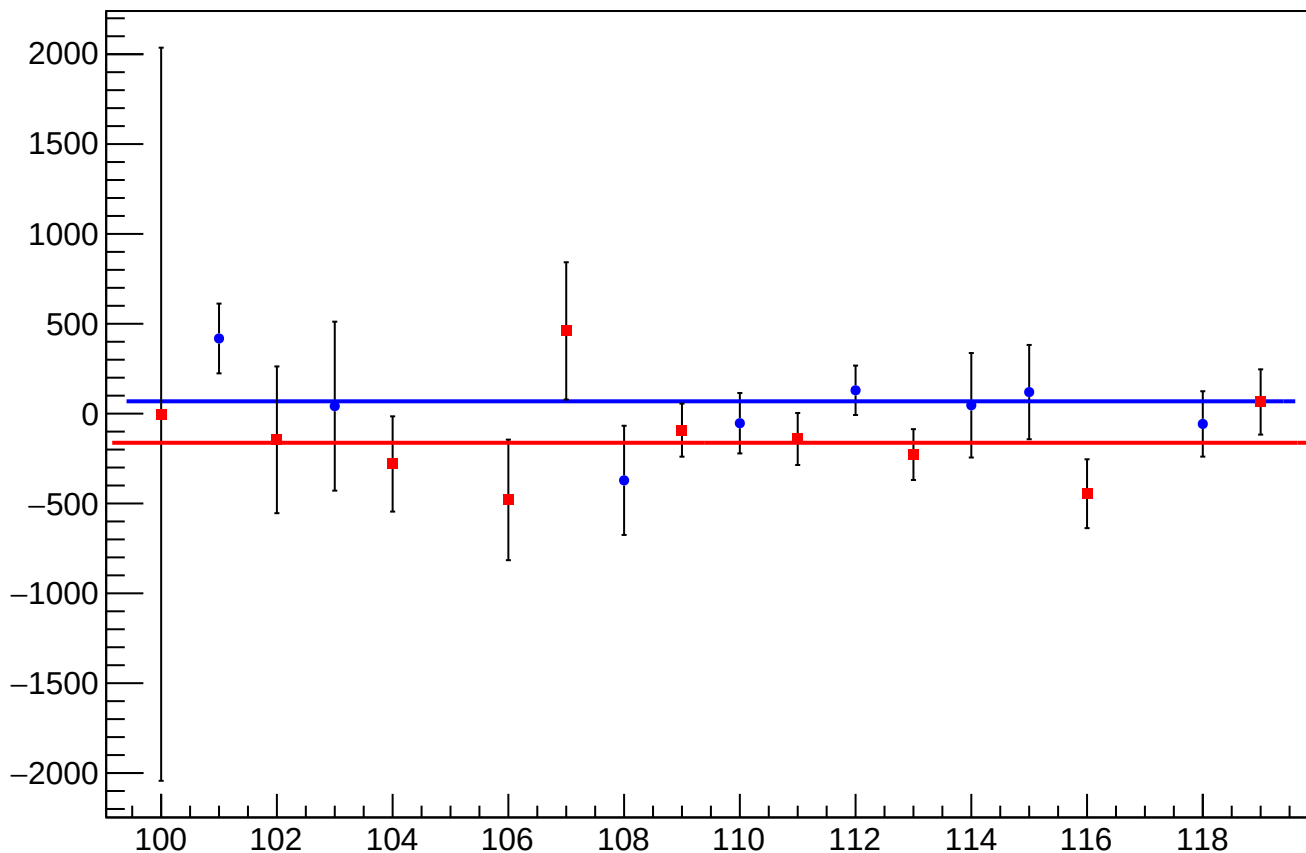
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 754971.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_mean vs Slug



Right In: 68.560 $\pm$ 73.181  $\chi^2$ /NDF: 6.6/7

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -162.185 $\pm$ -64.926  $\chi^2$ /NDF: 8.0/9

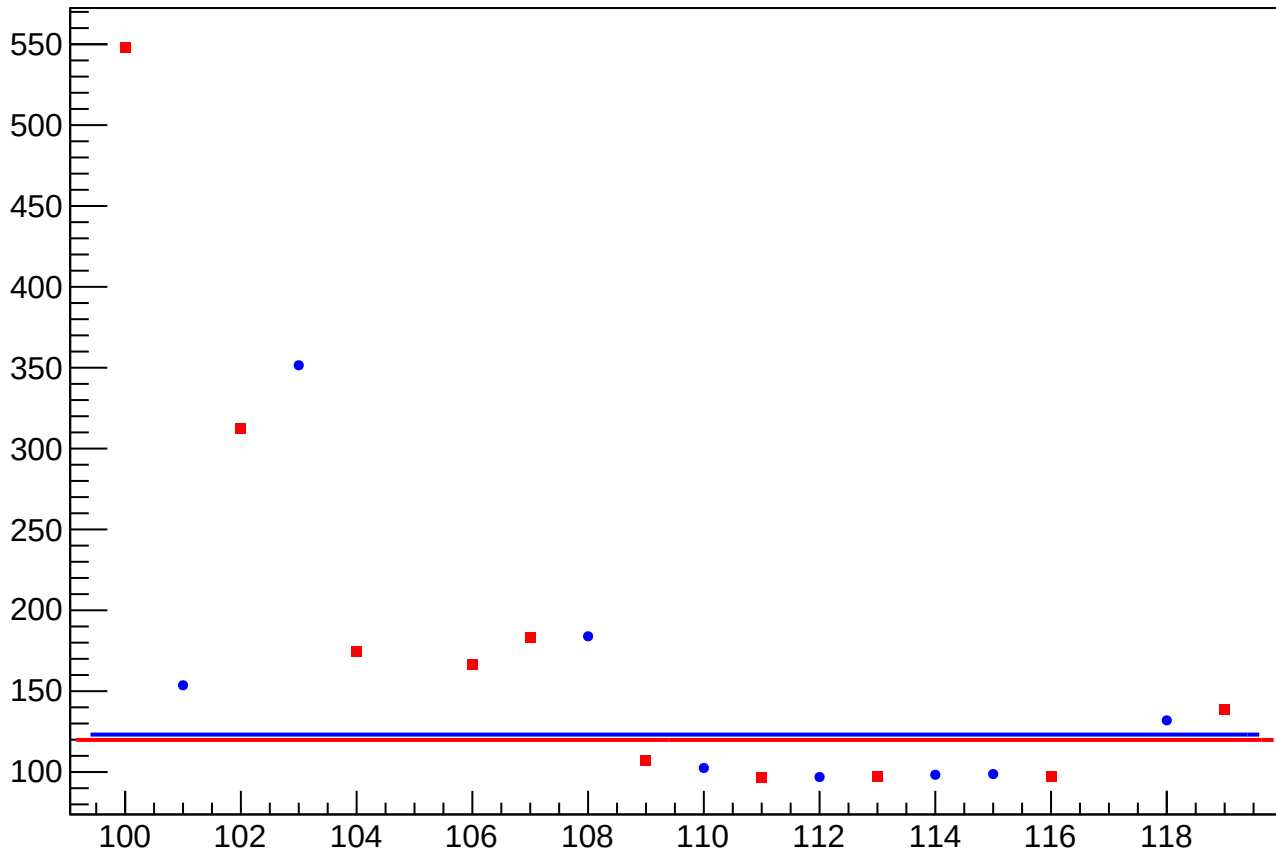
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -60.555 $\pm$ -48.567  $\chi^2$ /NDF: 20.1/17

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam3\_rms vs Slug



Right In: 123.158 $\pm$ 0.052  $\chi^2$ /NDF: 740820.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 119.866 $\pm$ 0.046  $\chi^2$ /NDF: 878403.7/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

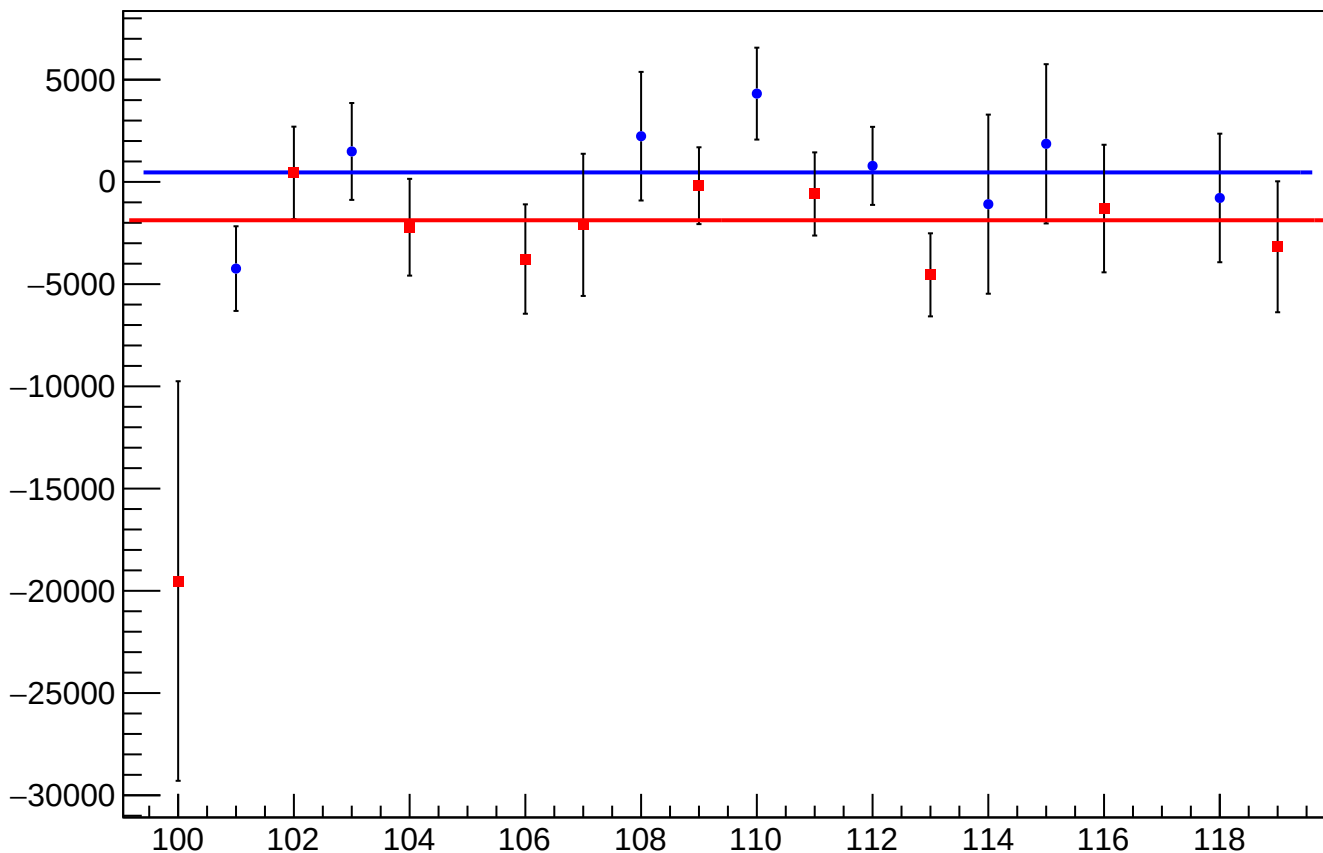
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 121.316 $\pm$ 0.034  $\chi^2$ /NDF: 1621488.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam3\_reg\_correction\_mean vs Slug



Right In: 464.354+/-911.312  $\chi^2/\text{NDF}$ : 9.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1875.817+/-796.845  $\chi^2/\text{NDF}$ : 8.0/9

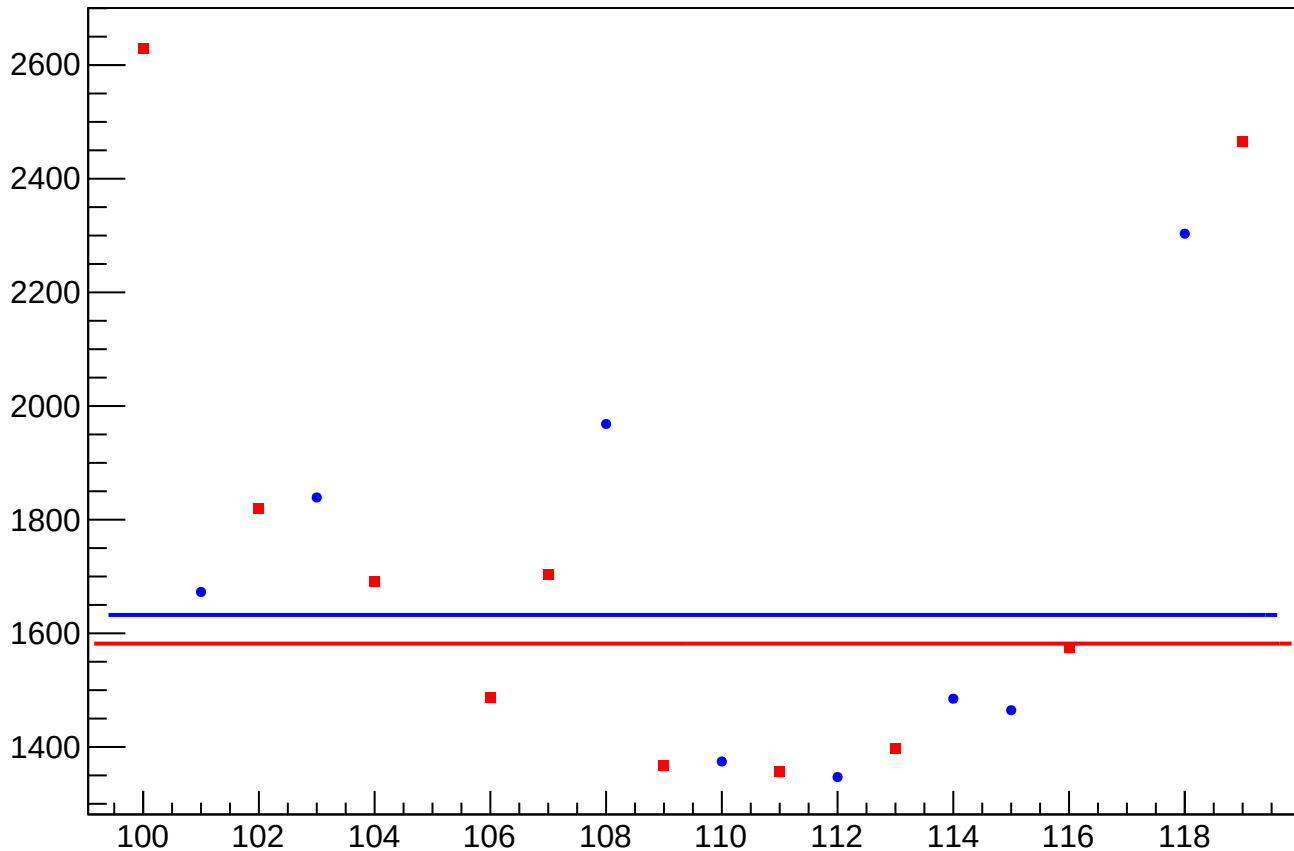
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -861.849+/-599.868  $\chi^2/\text{NDF}$ : 20.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_reg\_correction\_rms vs Slug



Right In: 1632.398 $\pm$ 0.644  $\chi^2$ /NDF: 206878.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1581.939 $\pm$ 0.563  $\chi^2$ /NDF: 273262.3/9

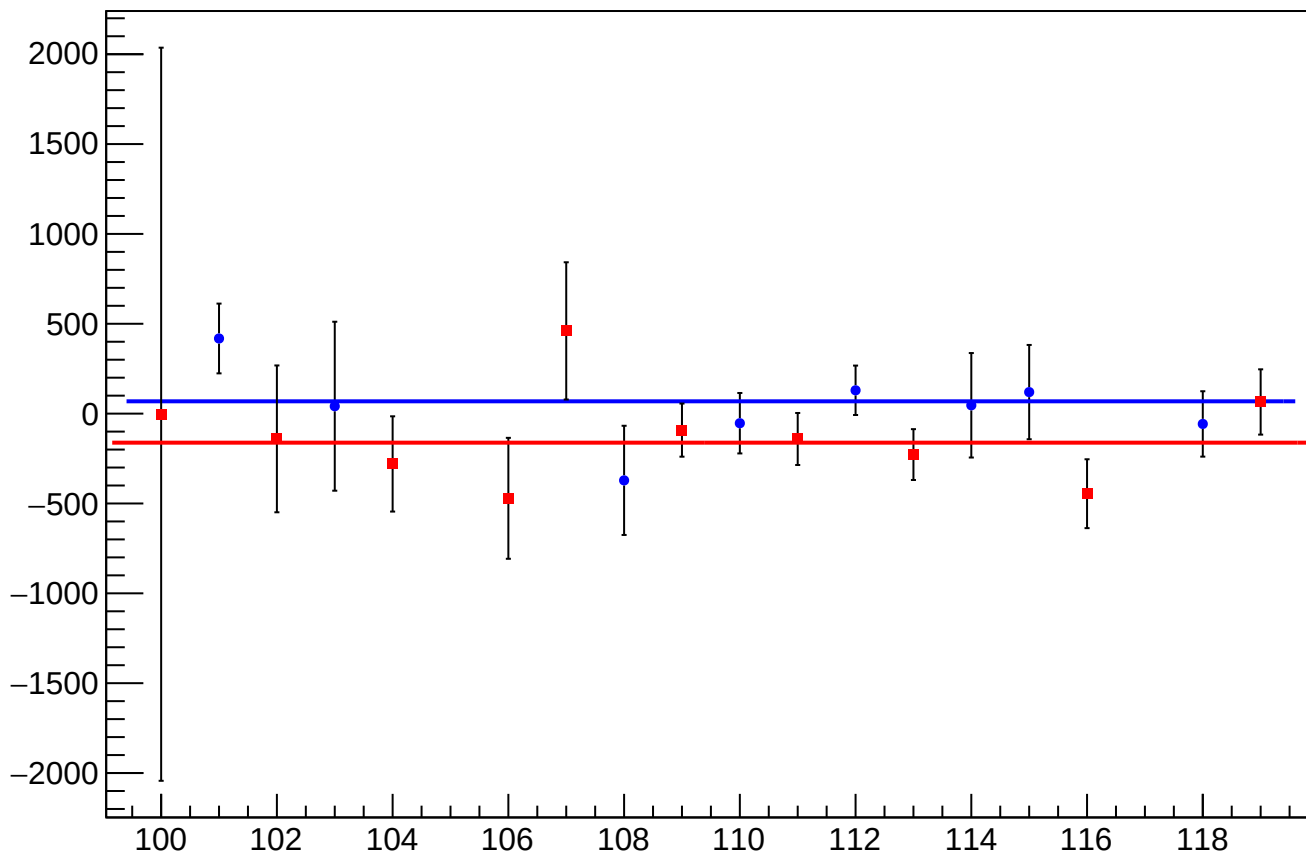
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1603.802 $\pm$ 0.424  $\chi^2$ /NDF: 483615.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam3\_mean vs Slug



Right In:  $68.533 \pm 73.181$   $\chi^2/\text{NDF}$ : 6.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-161.621 \pm 64.935$   $\chi^2/\text{NDF}$ : 7.9/9

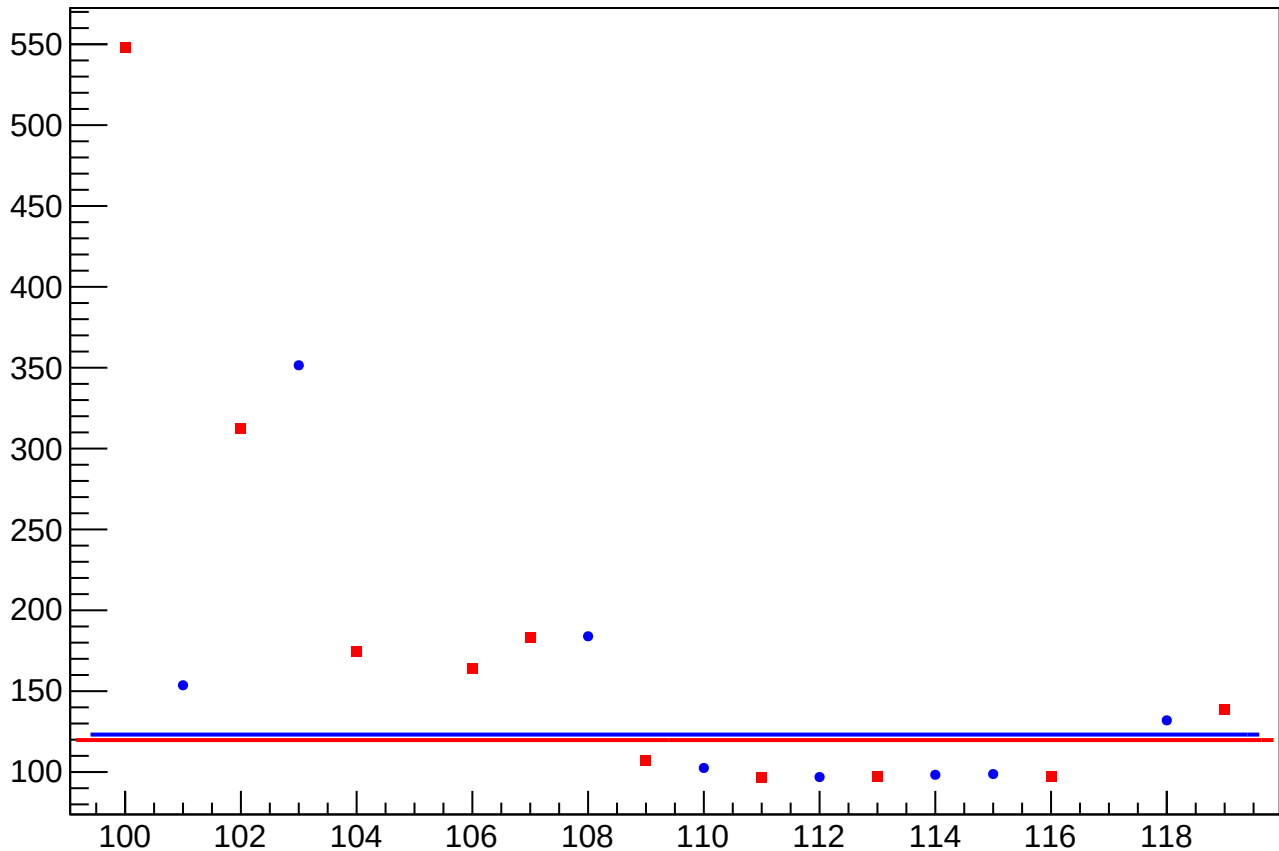
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-60.237 \pm 48.571$   $\chi^2/\text{NDF}$ : 20.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam3\_rms vs Slug



Right In: 123.158 $\pm$ 0.052  $\chi^2$ /NDF: 740822.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 119.762 $\pm$ 0.046  $\chi^2$ /NDF: 874385.0/9

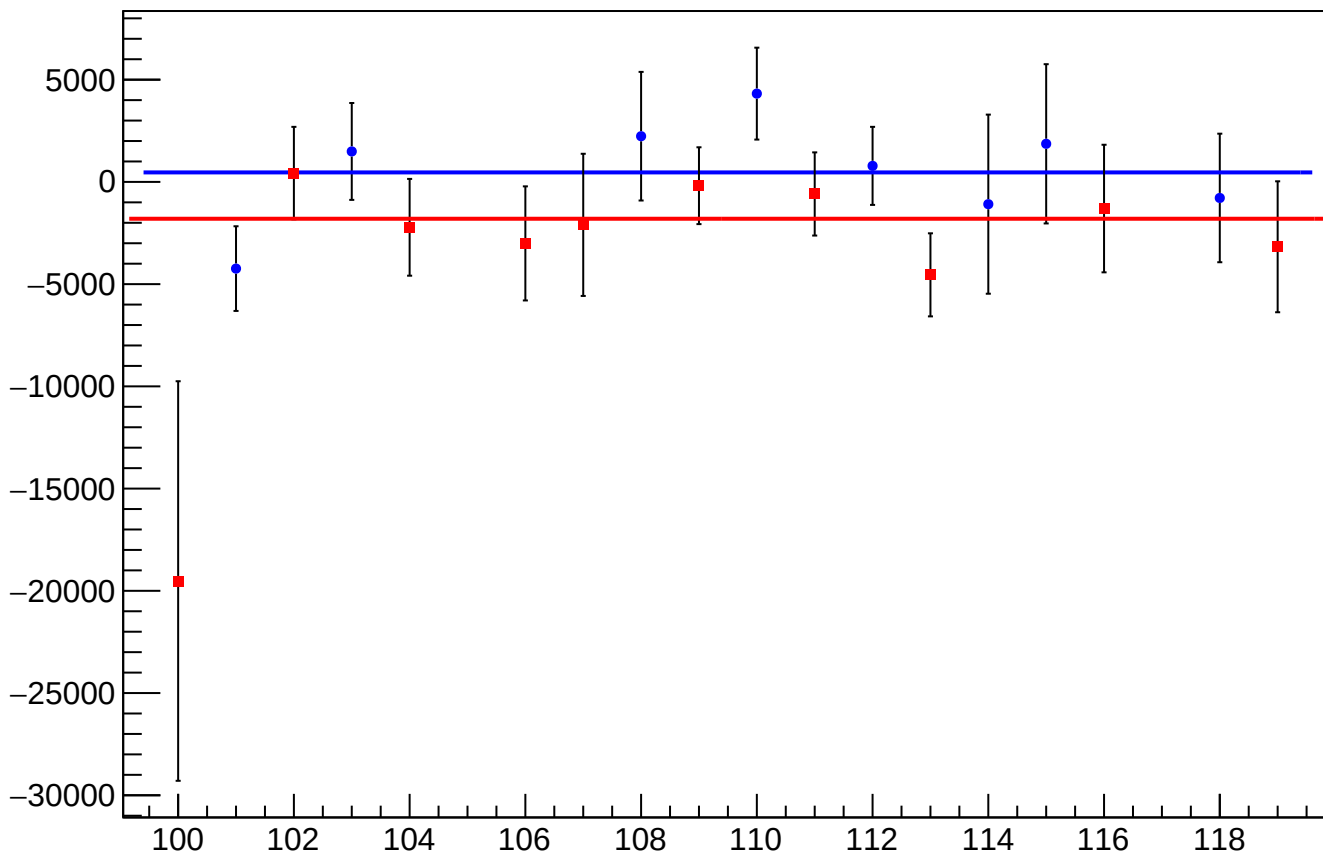
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 121.258 $\pm$ 0.034  $\chi^2$ /NDF: 1617616.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_cor\_correction\_mean vs Slug



Right In: 464.419+/-911.327  $\chi^2/\text{NDF}$ : 9.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1801.632+/-799.807  $\chi^2/\text{NDF}$ : 7.6/9

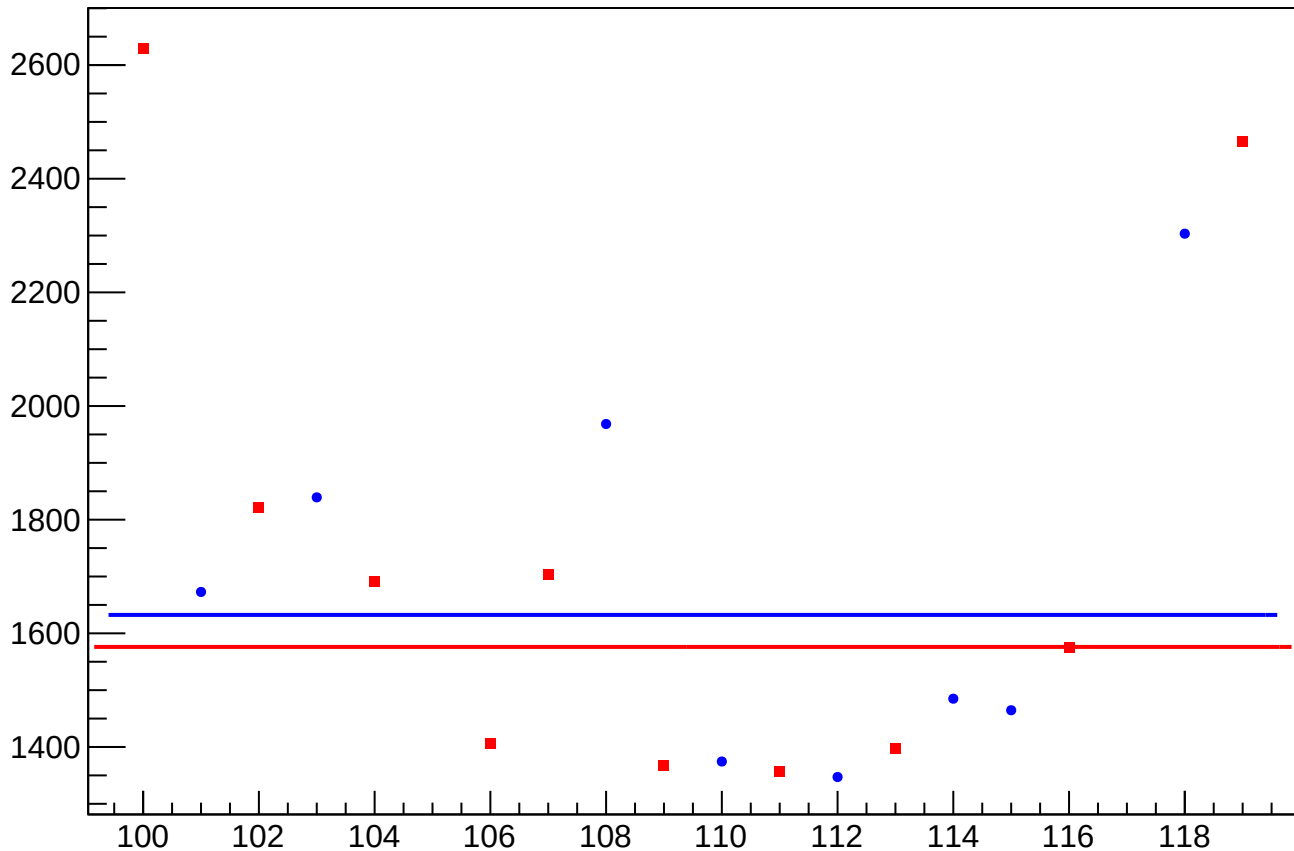
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -815.667+/-601.132  $\chi^2/\text{NDF}$ : 20.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_cor\_correction\_rms vs Slug



Right In: 1632.419+/-0.644  $\chi^2/\text{NDF}$ : 206904.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1576.098+/-0.566  $\chi^2/\text{NDF}$ : 278821.6/9

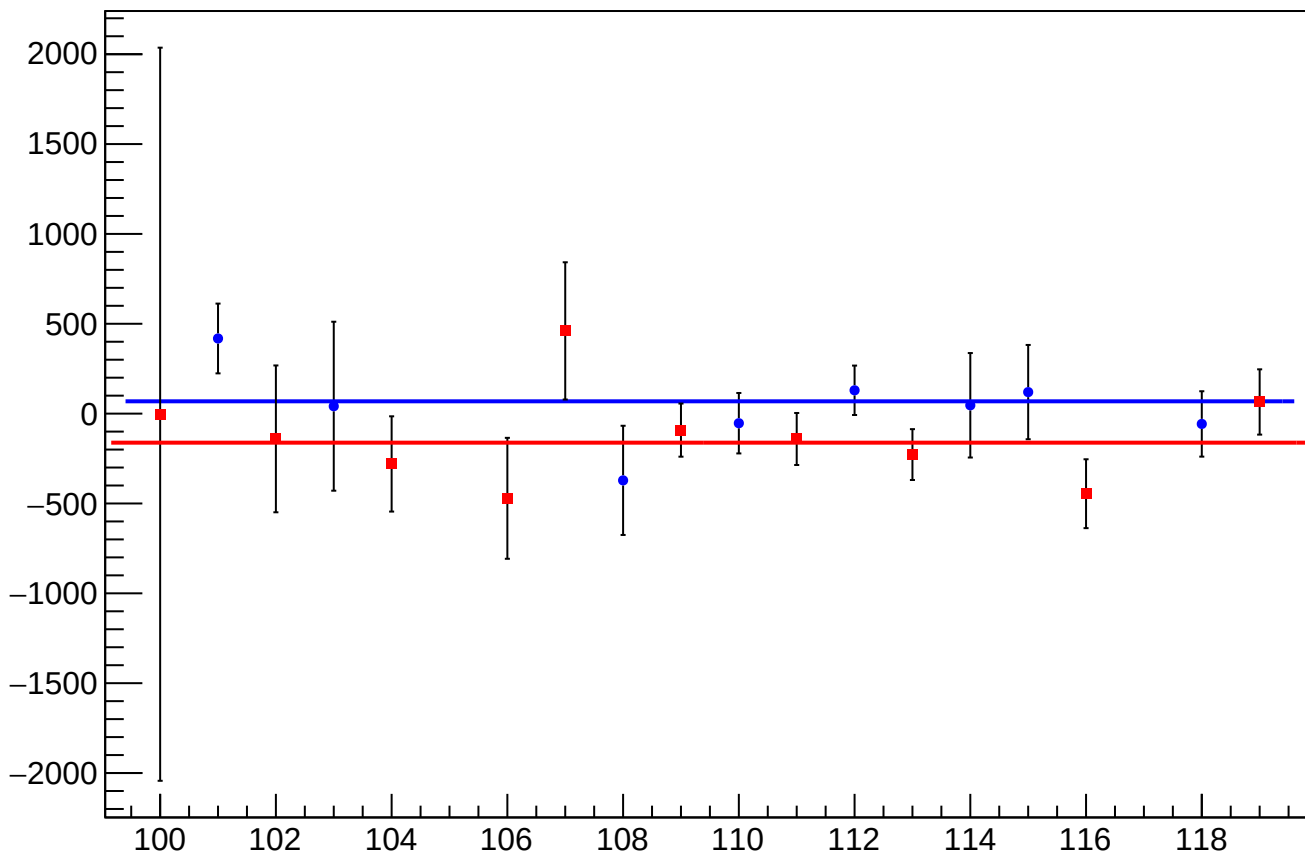
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1600.604+/-0.425  $\chi^2/\text{NDF}$ : 490041.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam3\_mean vs Slug



Right In:  $68.533 \pm 73.181$   $\chi^2/\text{NDF}$ : 6.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-161.621 \pm 64.935$   $\chi^2/\text{NDF}$ : 7.9/9

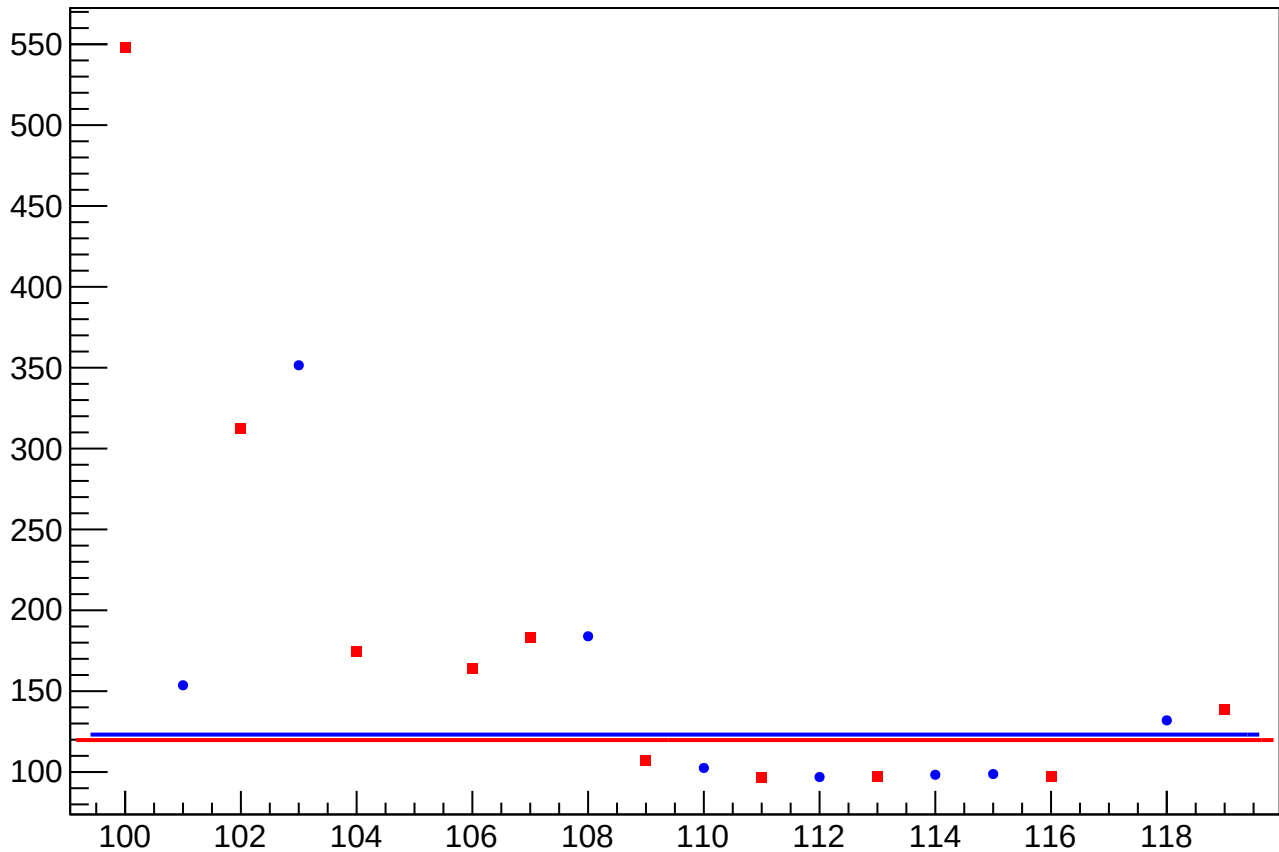
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-60.237 \pm 48.571$   $\chi^2/\text{NDF}$ : 20.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam3\_rms vs Slug



Right In: 123.158 $\pm$ 0.052  $\chi^2$ /NDF: 740822.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 119.762 $\pm$ 0.046  $\chi^2$ /NDF: 874385.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

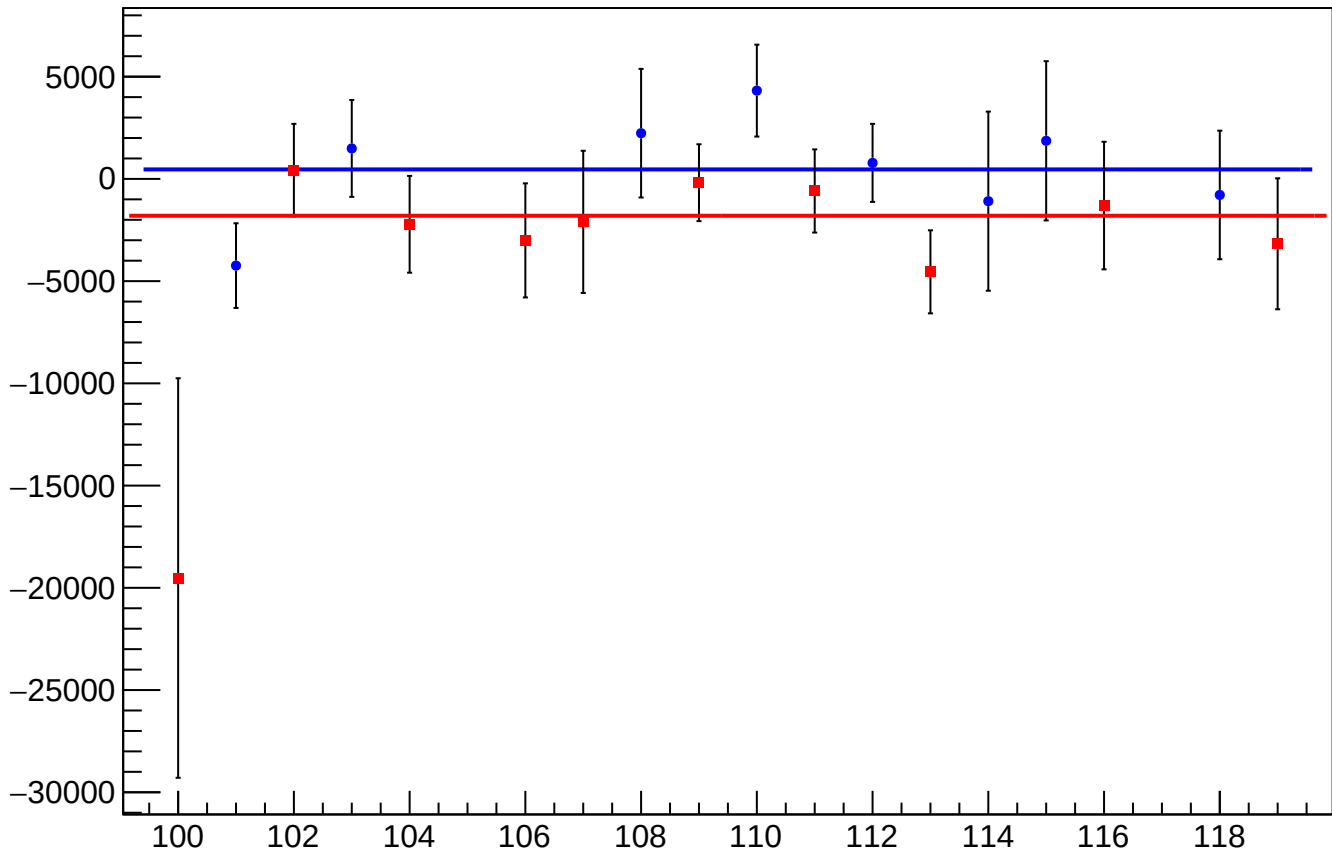
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 121.258 $\pm$ 0.034  $\chi^2$ /NDF: 1617616.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam3\_eigen\_cor\_correction\_mean vs Slug



Right In: 464.419+/-911.327  $\chi^2/\text{NDF}$ : 9.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1801.632+/-799.807  $\chi^2/\text{NDF}$ : 7.6/9

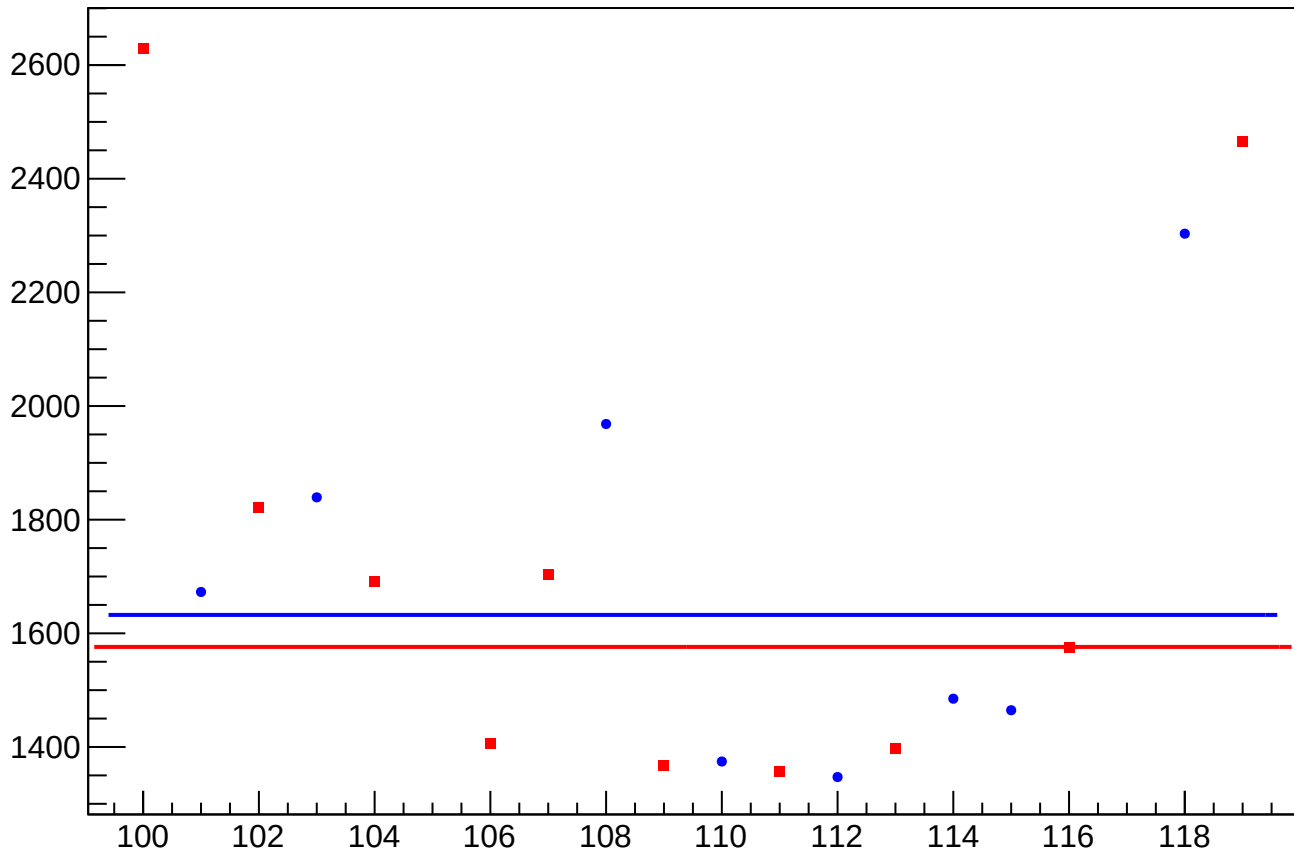
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -815.667+/-601.132  $\chi^2/\text{NDF}$ : 20.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_eigen\_cor\_correction\_rms vs Slug



Right In: 1632.419+/-0.644  $\chi^2/\text{NDF}$ : 206904.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1576.098+/-0.566  $\chi^2/\text{NDF}$ : 278821.6/9

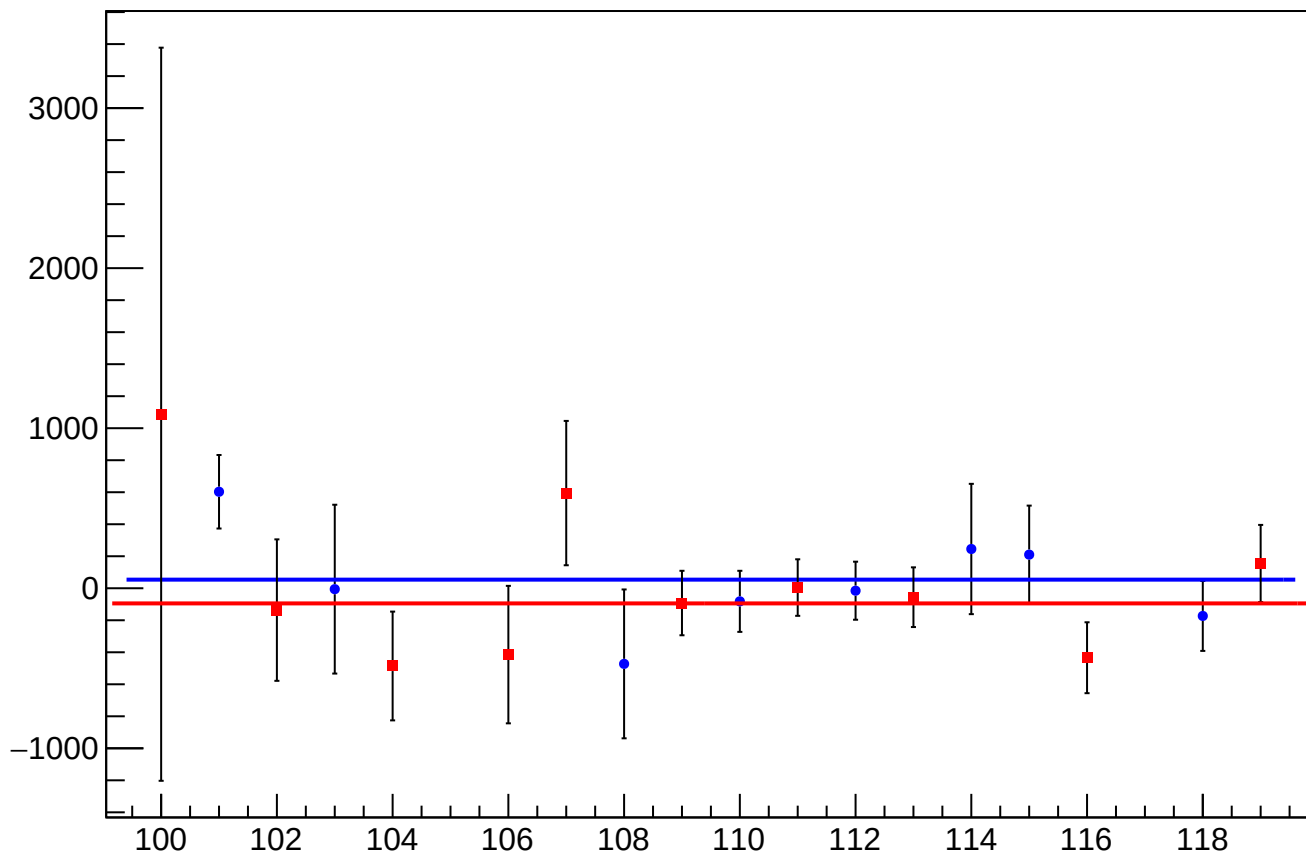
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1600.604+/-0.425  $\chi^2/\text{NDF}$ : 490041.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam3\_mean vs Slug



Right In: 53.766 $\pm$ 90.271  $\chi^2$ /NDF: 9.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -94.680 $\pm$ 82.380  $\chi^2$ /NDF: 8.3/9

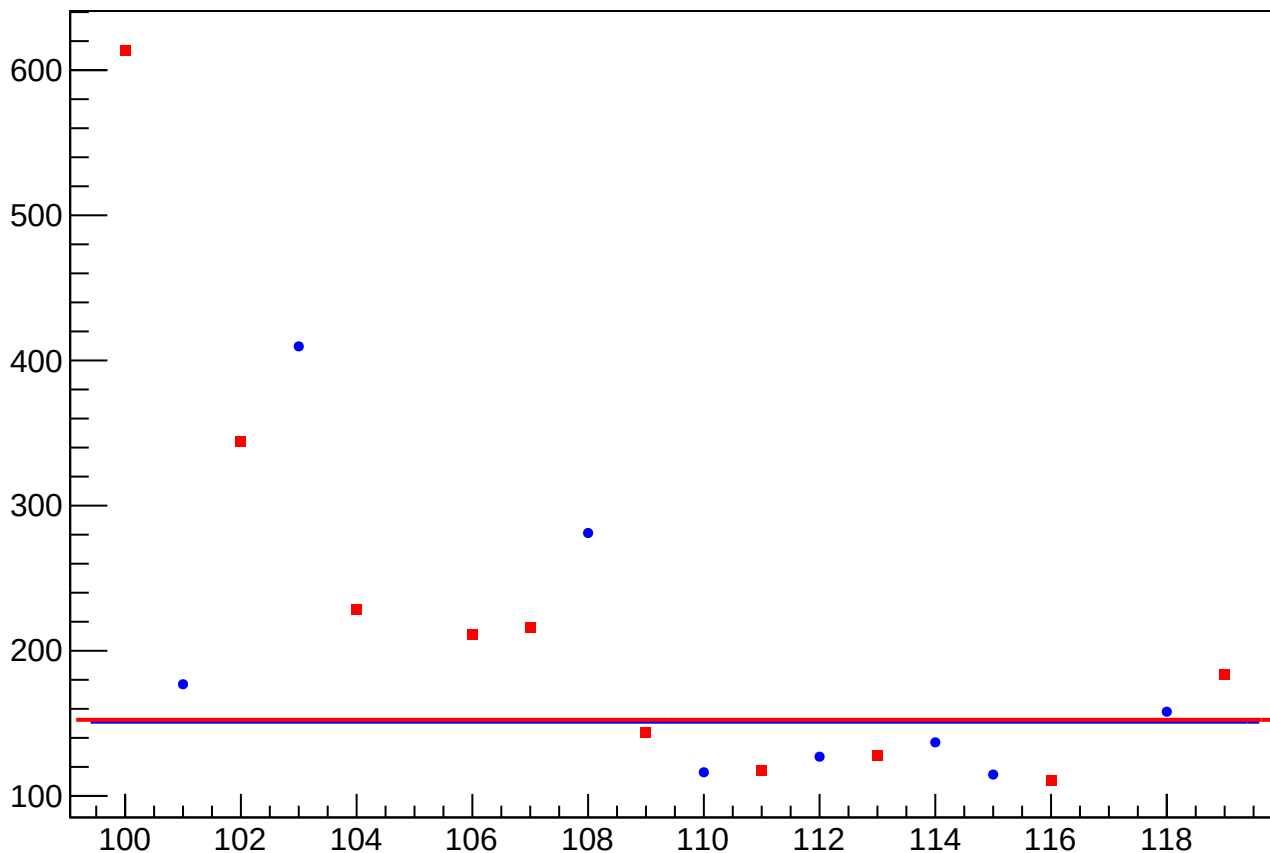
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -27.228 $\pm$ 60.850  $\chi^2$ /NDF: 19.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam3\_rms vs Slug



Right In: 151.146 $\pm$ 0.064  $\chi^2$ /NDF: 796912.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 152.442 $\pm$ 0.058  $\chi^2$ /NDF: 856934.2/9

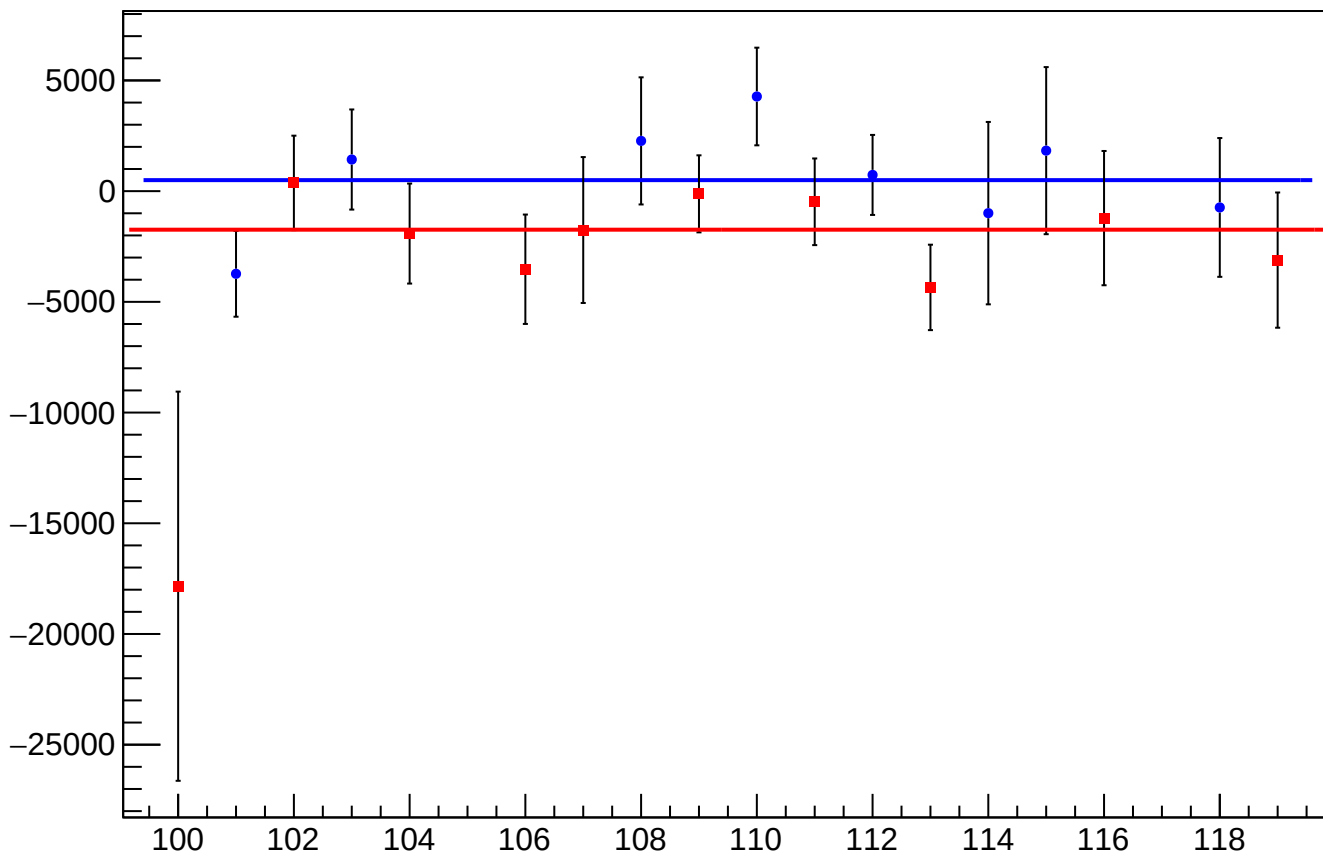
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 151.853 $\pm$ 0.043  $\chi^2$ /NDF: 1654071.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_dit\_correction\_mean vs Slug



Right In: 497.274 $\pm$ 868.395  $\chi^2$ /NDF: 8.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1740.716 $\pm$ 753.542  $\chi^2$ /NDF: 8.2/9

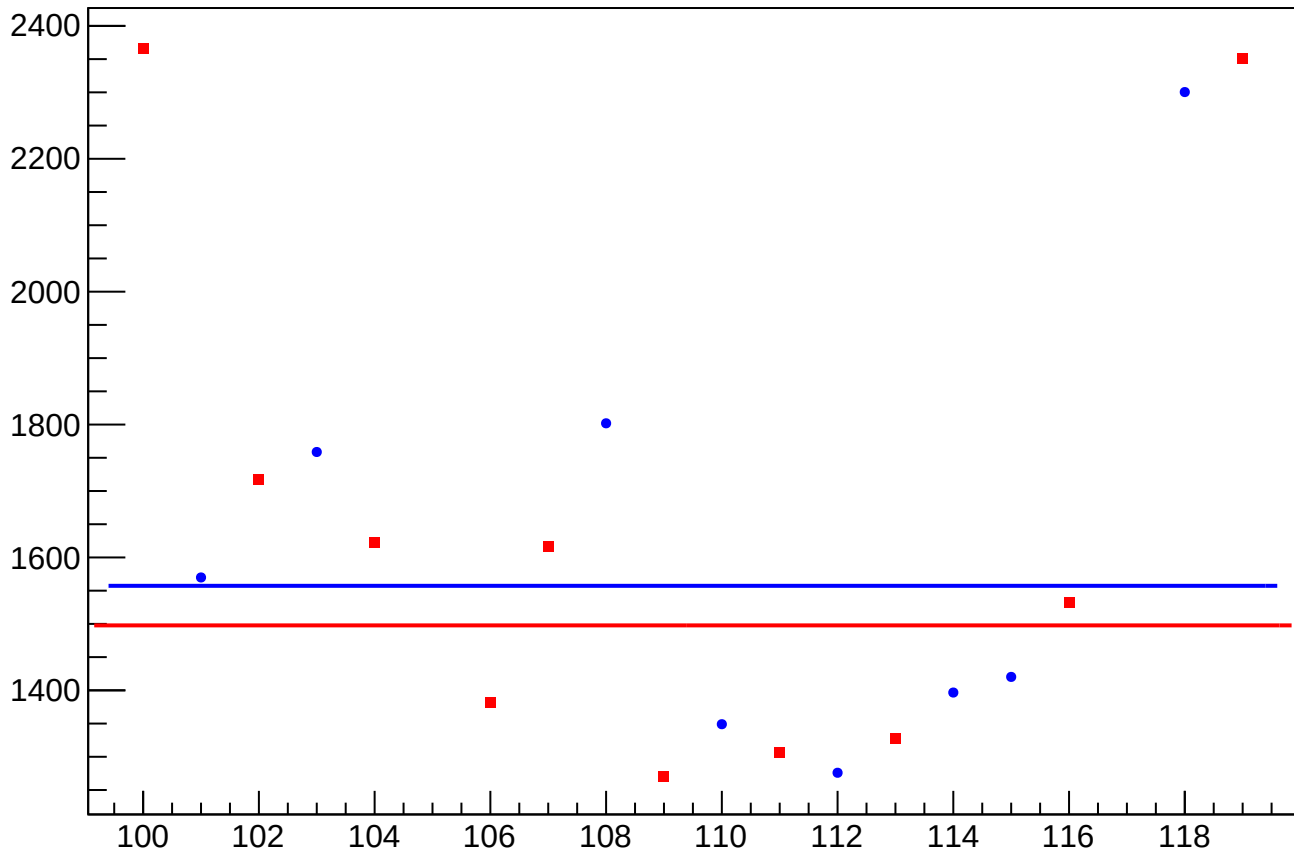
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -779.407 $\pm$ 569.141  $\chi^2$ /NDF: 20.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_dit\_correction\_rms vs Slug



Right In: 1557.303+/-0.614  $\chi^2/\text{NDF}$ : 214930.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1497.757+/-0.533  $\chi^2/\text{NDF}$ : 279180.2/9

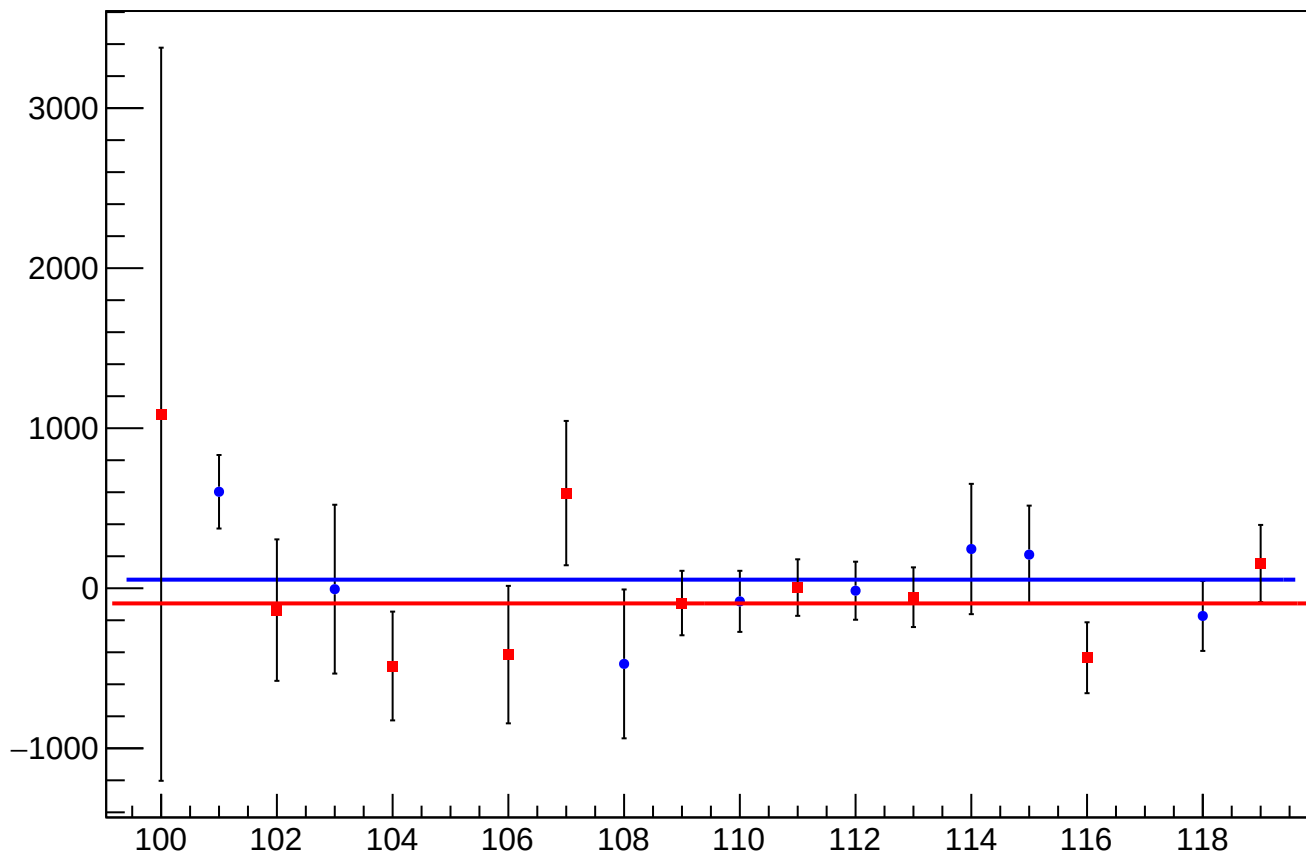
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1523.335+/-0.402  $\chi^2/\text{NDF}$ : 499475.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam3\_mean vs Slug



Right In: 53.763+/-90.271  $\chi^2/\text{NDF}$ : 9.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -94.679+/-82.380  $\chi^2/\text{NDF}$ : 8.3/9

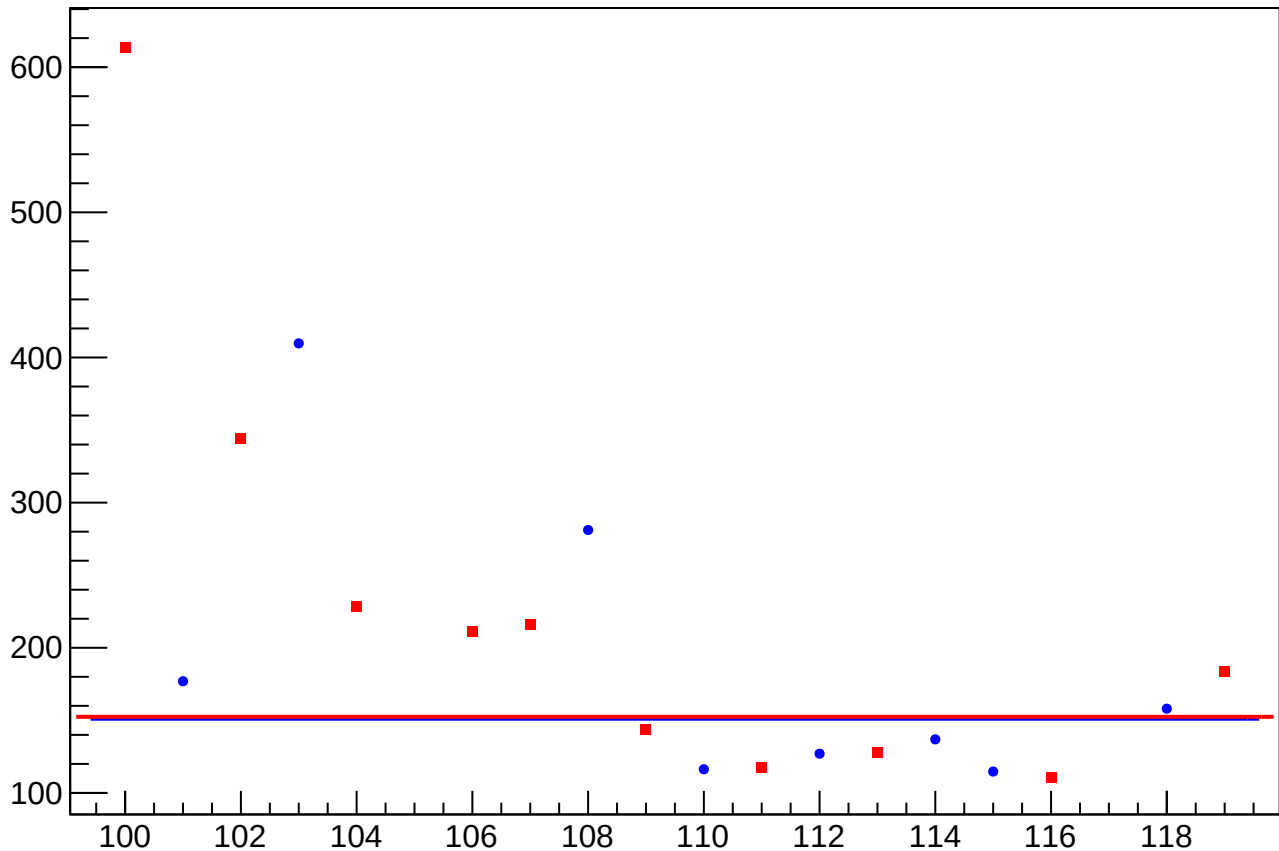
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -27.228+/-60.851  $\chi^2/\text{NDF}$ : 19.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam3\_rms vs Slug



Right In: 151.147 $\pm$ 0.064  $\chi^2$ /NDF: 796913.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 152.442 $\pm$ 0.058  $\chi^2$ /NDF: 856931.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

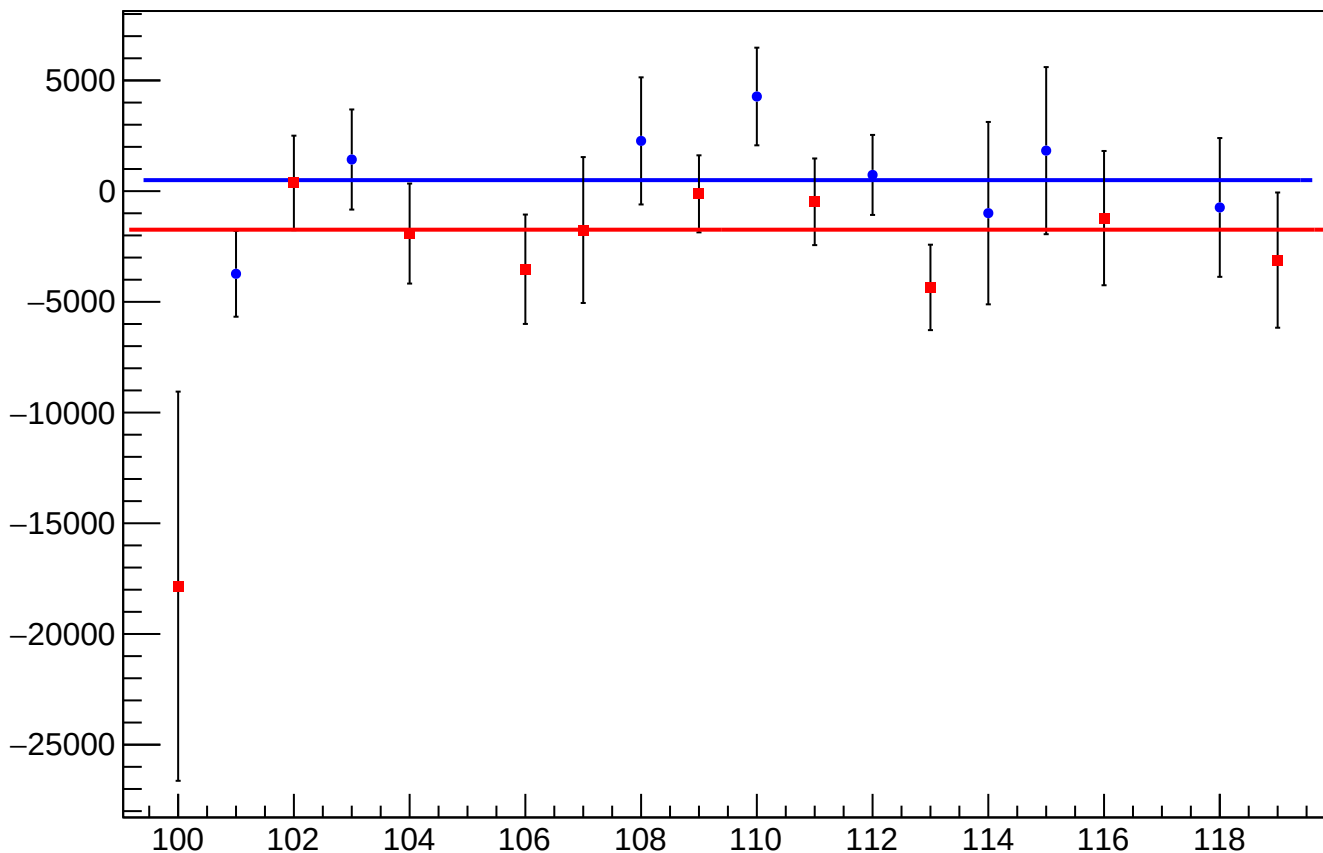
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 151.854 $\pm$ 0.043  $\chi^2$ /NDF: 1654070.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam3\_eigen\_dit\_correction\_mean vs Slug



Right In: 497.272+/-868.393  $\chi^2/\text{NDF}$ : 8.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1740.712+/-753.541  $\chi^2/\text{NDF}$ : 8.2/9

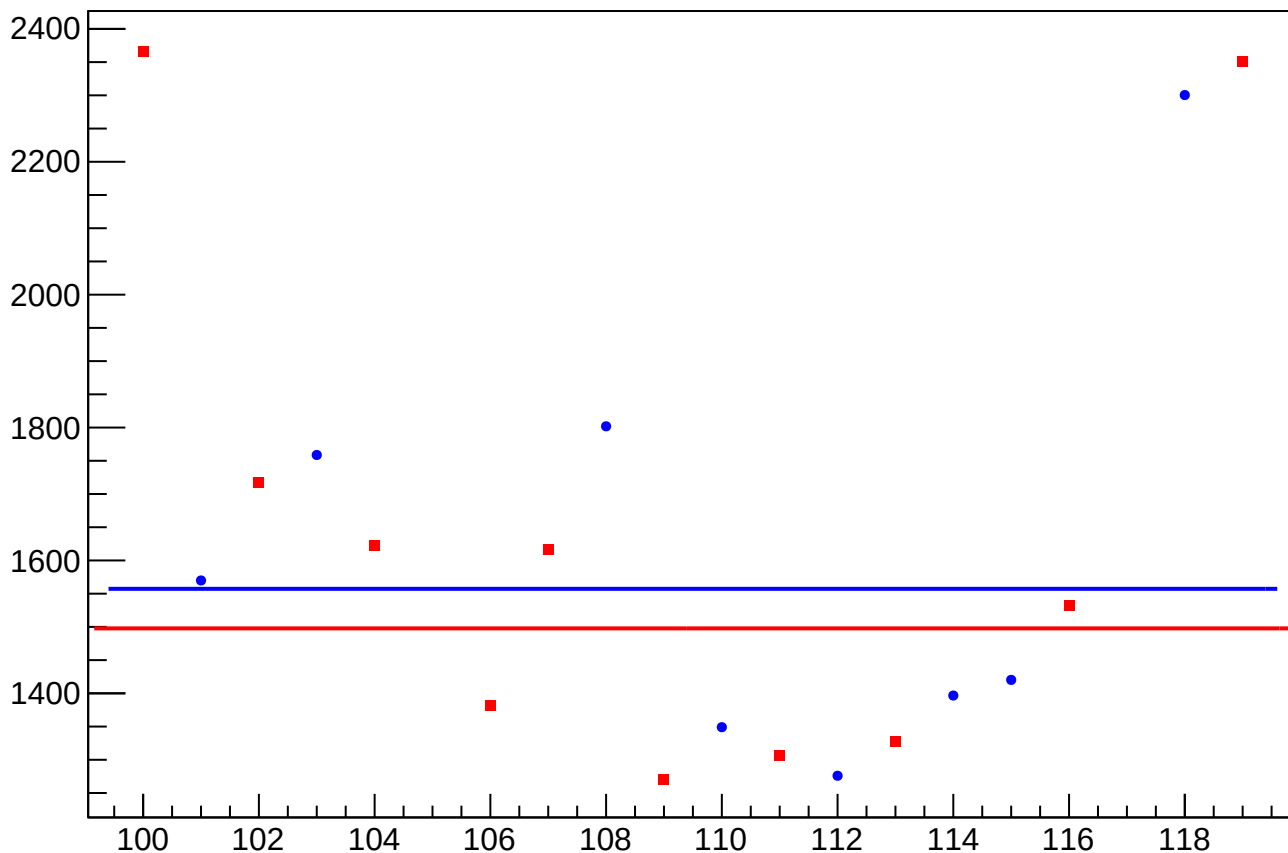
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -779.406+/-569.140  $\chi^2/\text{NDF}$ : 20.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_eigen\_dit\_correction\_rms vs Slug



Right In: 1557.300+/-0.614  $\chi^2/\text{NDF}$ : 214931.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1497.755+/-0.533  $\chi^2/\text{NDF}$ : 279180.5/9

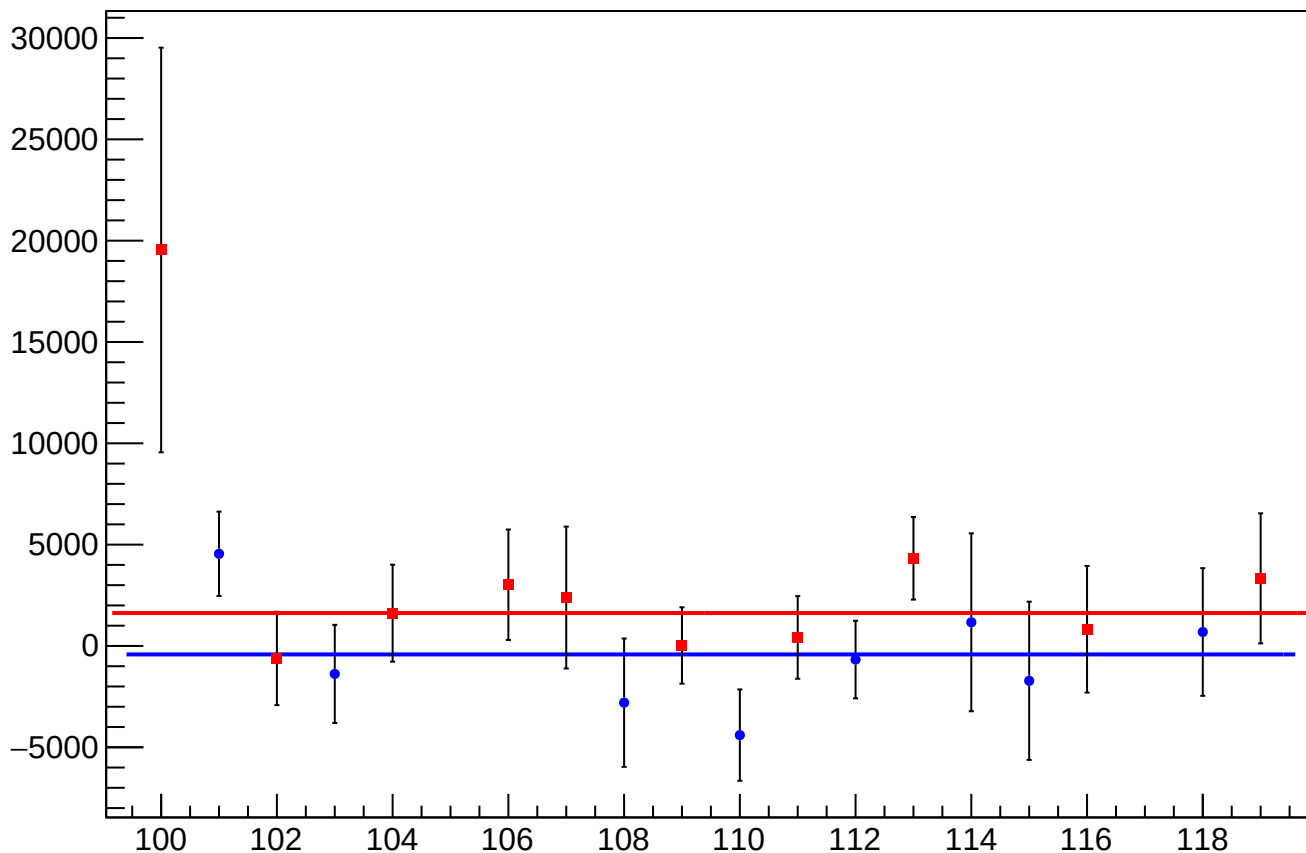
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1523.332+/-0.402  $\chi^2/\text{NDF}$ : 499476.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_mean vs Slug



Right In: -417.414+/-916.969  $\chi^2/\text{NDF}$ : 9.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1625.489+/-802.751  $\chi^2/\text{NDF}$ : 7.7/9

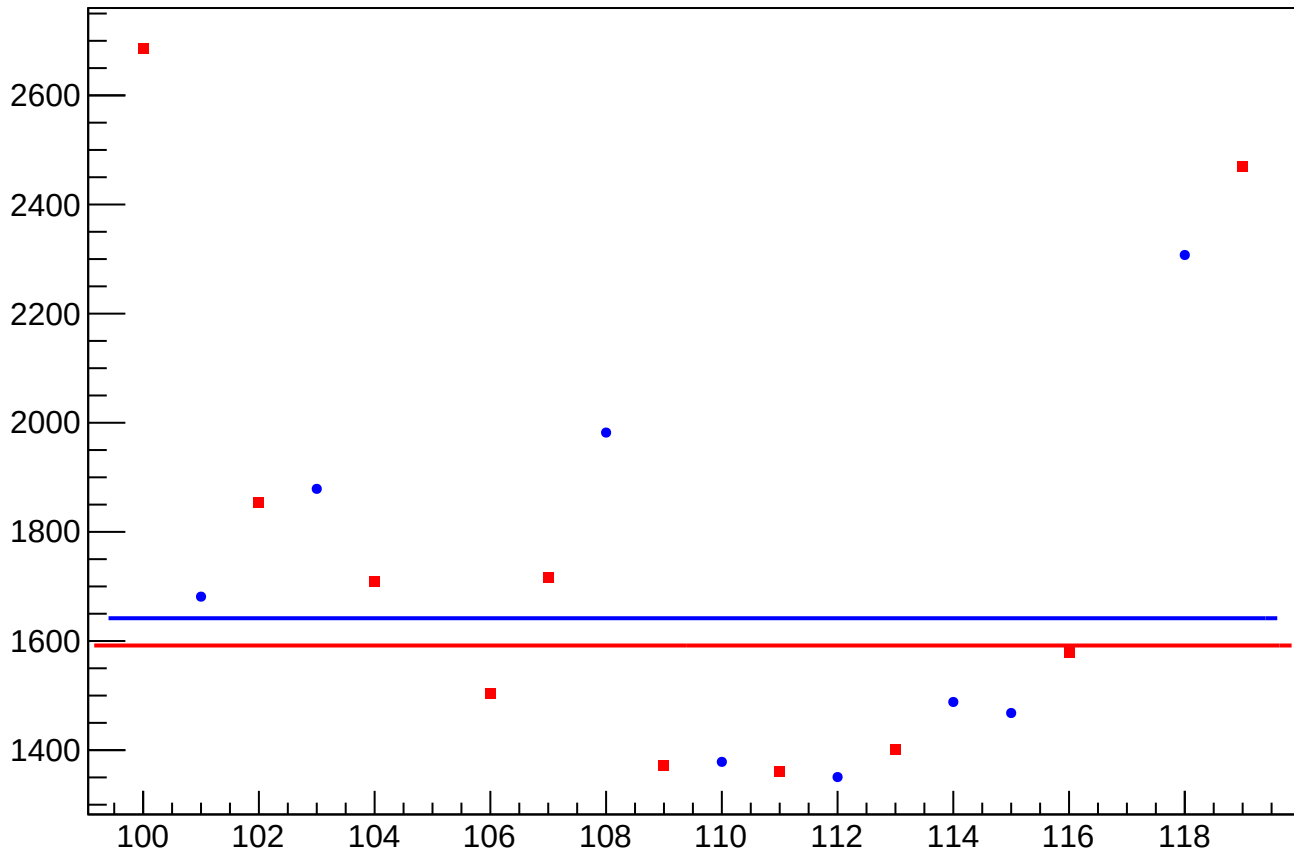
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 739.124+/-604.000  $\chi^2/\text{NDF}$ : 20.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_rms vs Slug



Right In: 1641.750 $\pm$ 0.648  $\chi^2$ /NDF: 212299.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1591.782 $\pm$ 0.568  $\chi^2$ /NDF: 279543.5/9

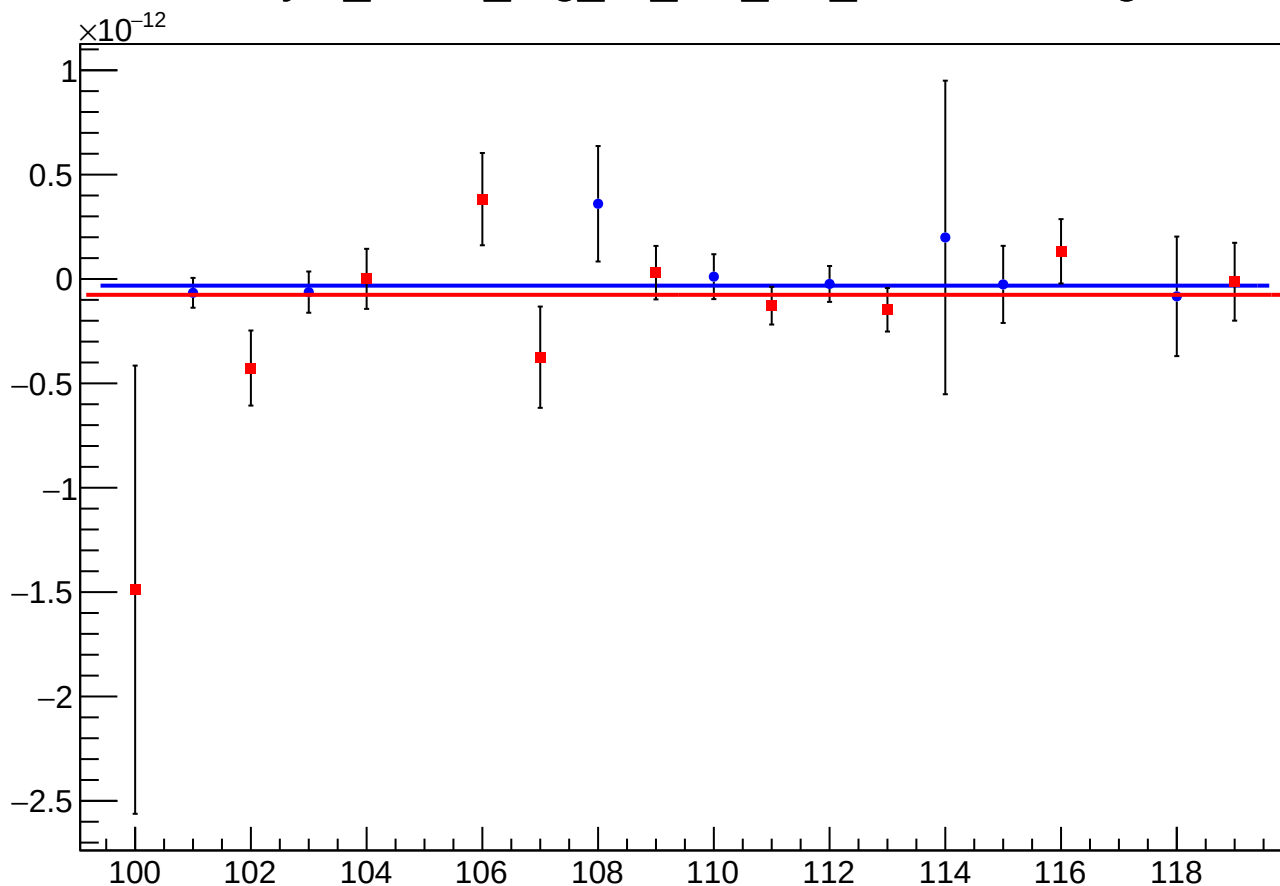
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1613.462 $\pm$ 0.427  $\chi^2$ /NDF: 495205.6/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 2.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.1/9

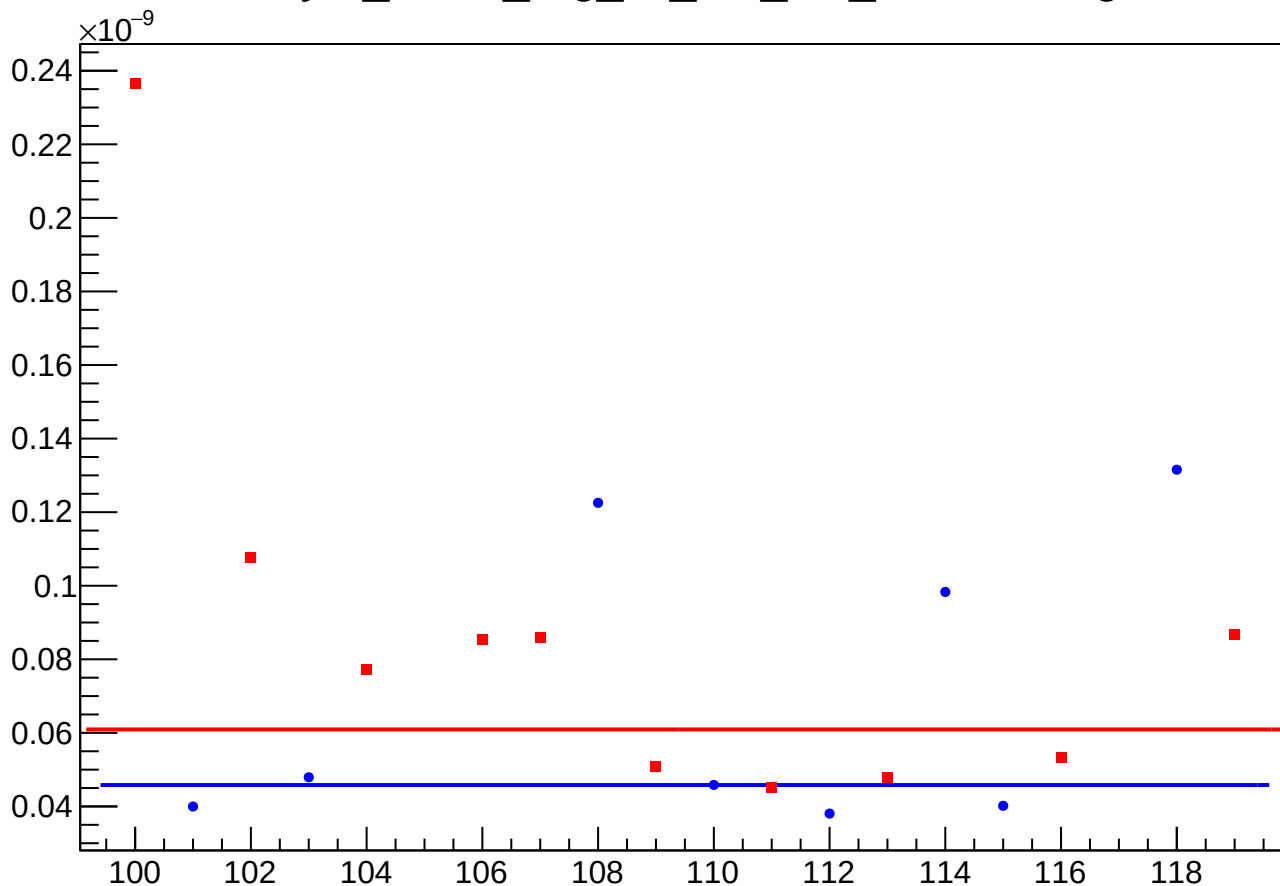
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 18.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 375529.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 407674.2/9

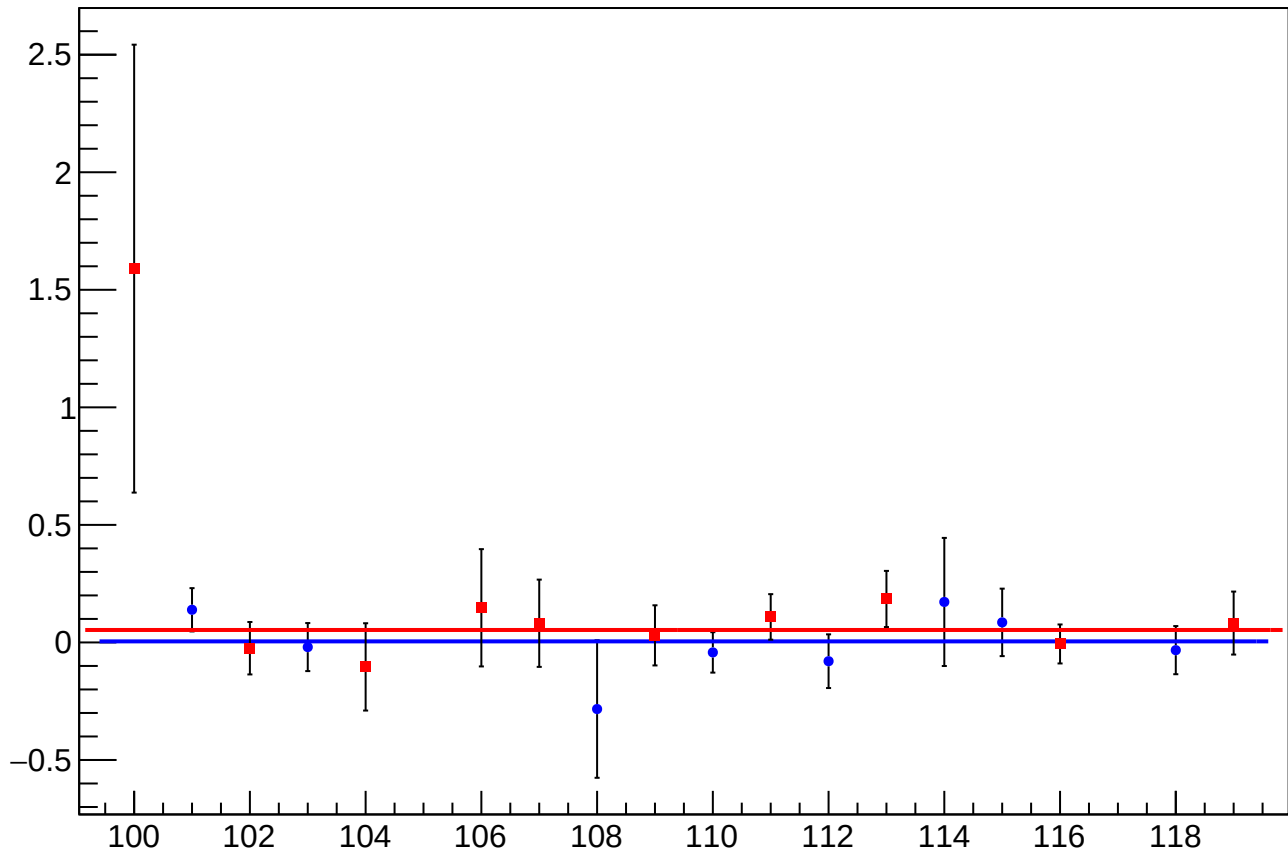
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 900627.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.004 $\pm$ 0.041  $\chi^2$ /NDF: 4.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.053 $\pm$ 0.041  $\chi^2$ /NDF: 6.1/9

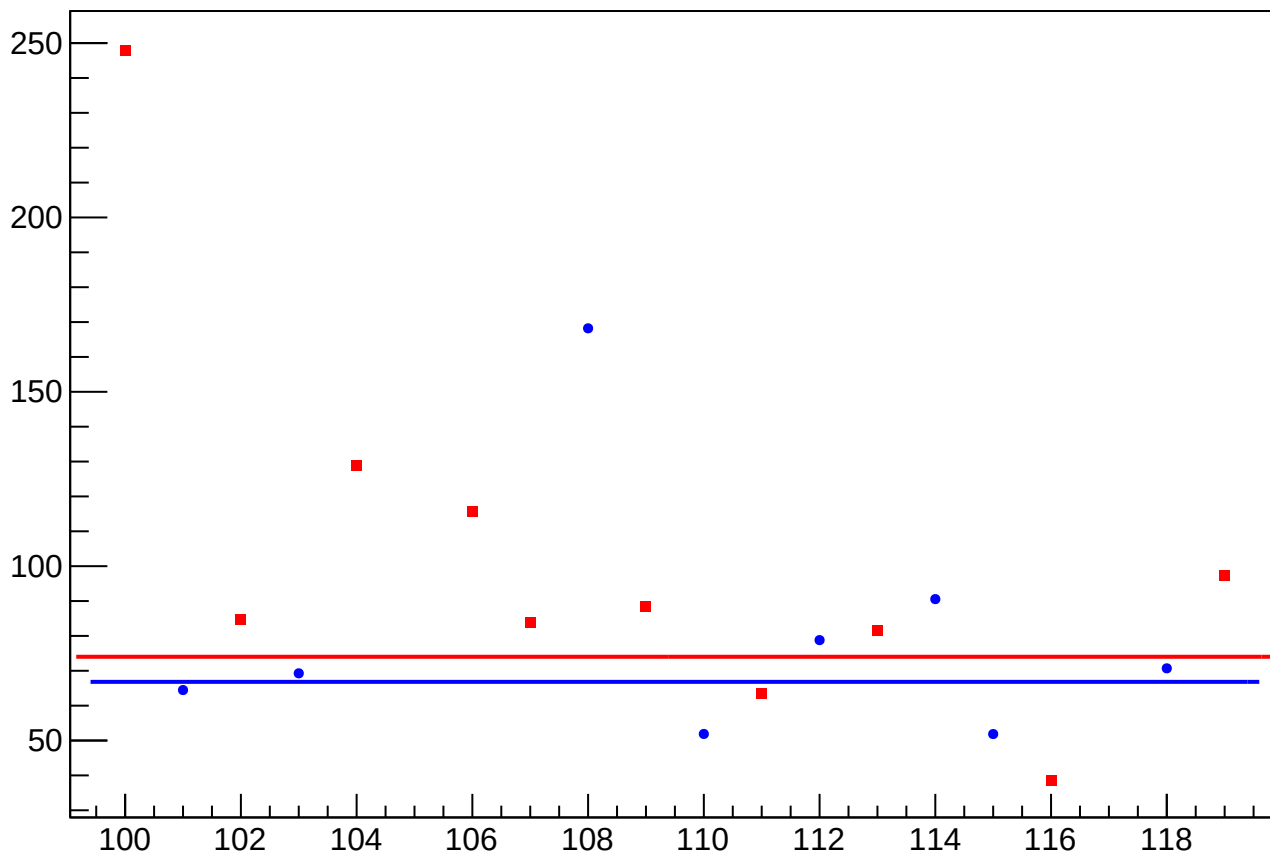
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.029 $\pm$ 0.029  $\chi^2$ /NDF: 11.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 66.827 $\pm$ 0.029  $\chi^2$ /NDF: 364928.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 74.023 $\pm$ 0.029  $\chi^2$ /NDF: 805913.6/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

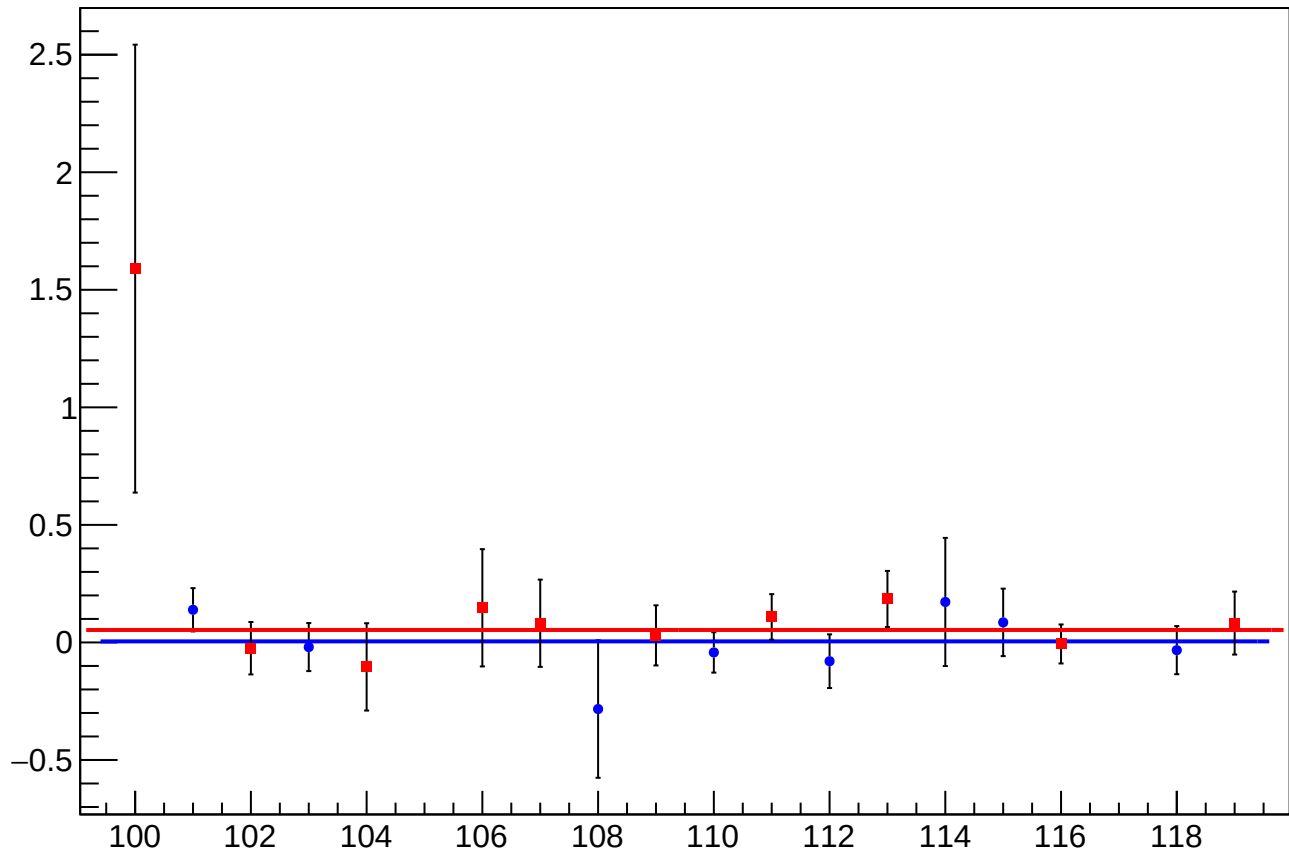
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 70.424 $\pm$ 0.021  $\chi^2$ /NDF: 1201637.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam3\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.004 $\pm$ 0.041  $\chi^2$ /NDF: 4.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.053 $\pm$ 0.041  $\chi^2$ /NDF: 6.1/9

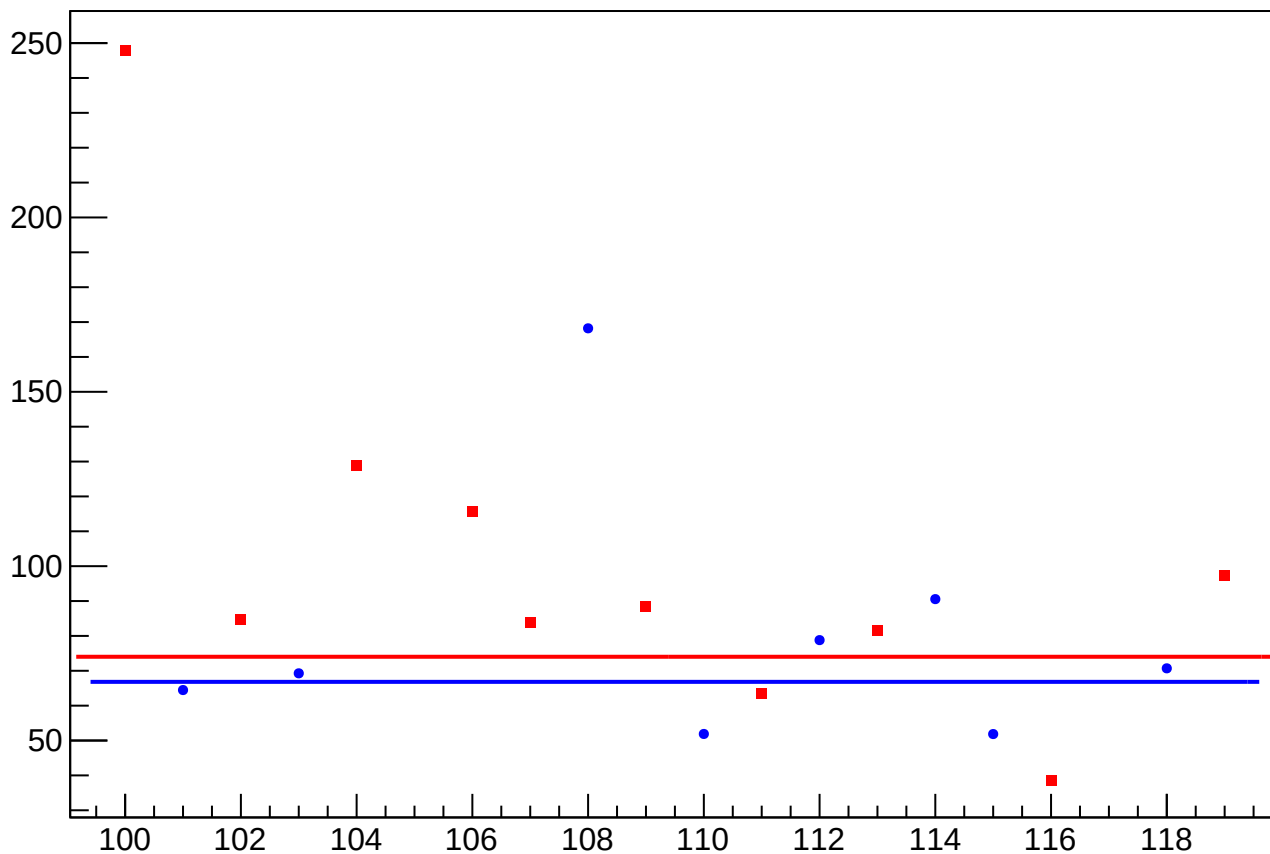
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.029 $\pm$ 0.029  $\chi^2$ /NDF: 11.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 66.827+/-0.029  $\chi^2/\text{NDF}$ : 364928.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 74.023+/-0.029  $\chi^2/\text{NDF}$ : 805913.6/9

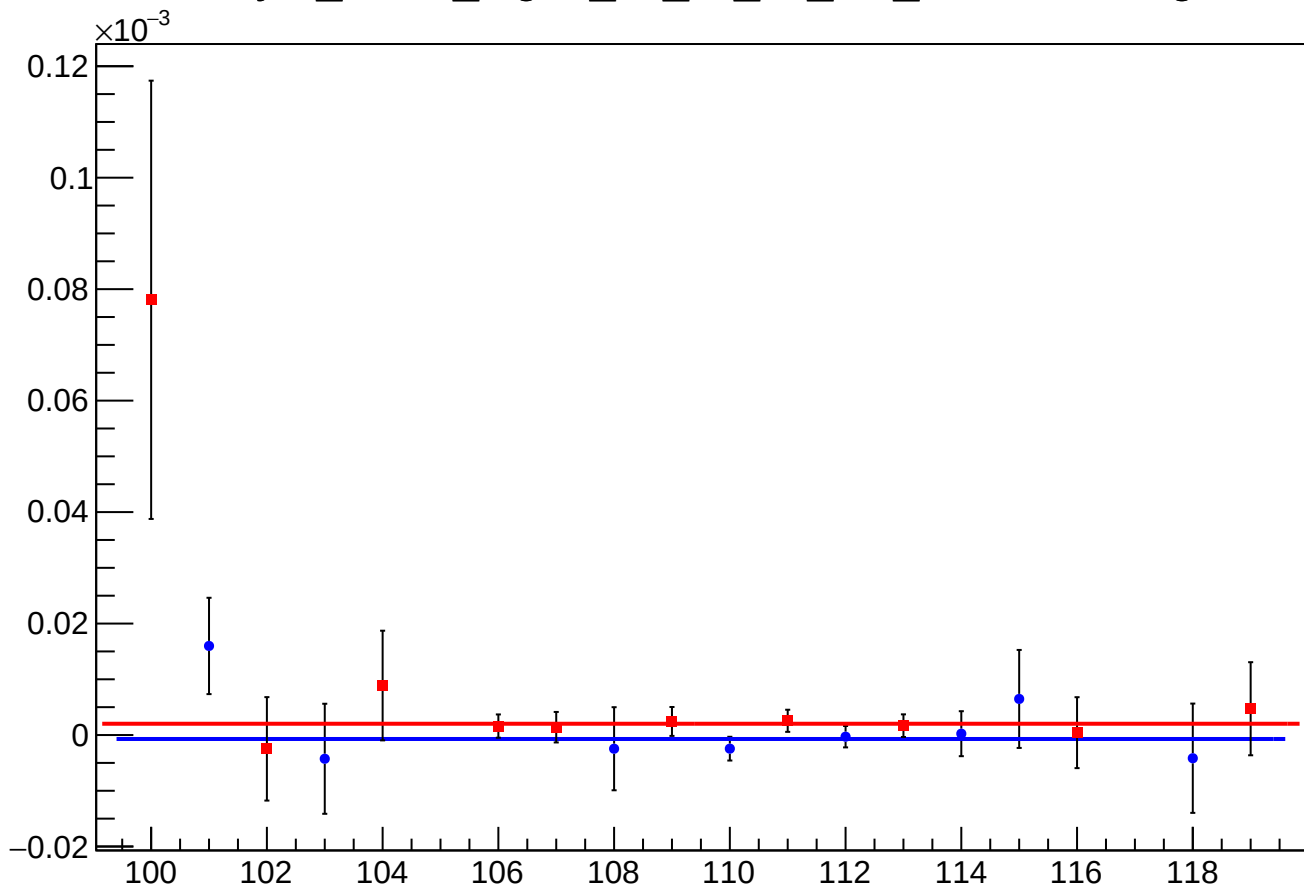
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.424+/-0.021  $\chi^2/\text{NDF}$ : 1201637.3/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.8/9

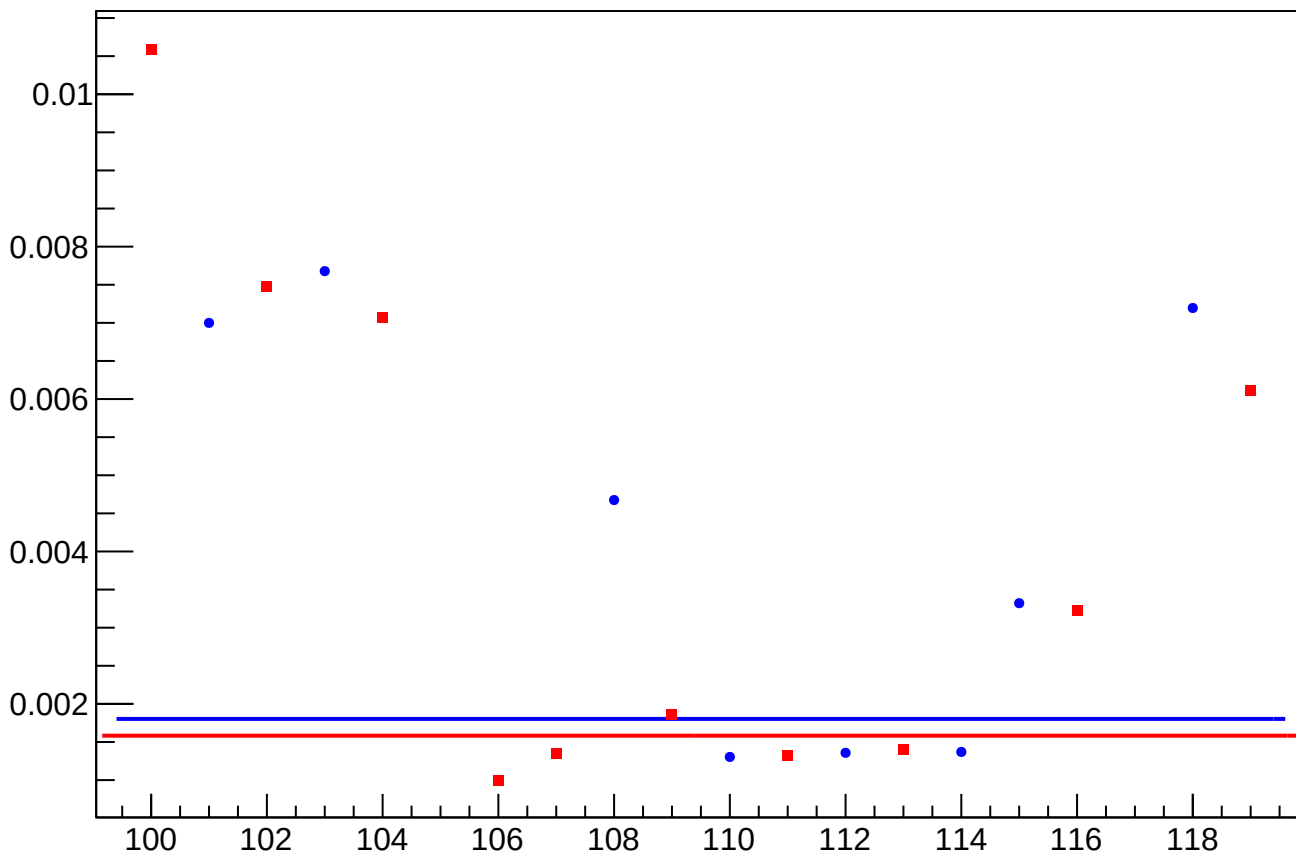
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 2633564.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 2501534.1/9

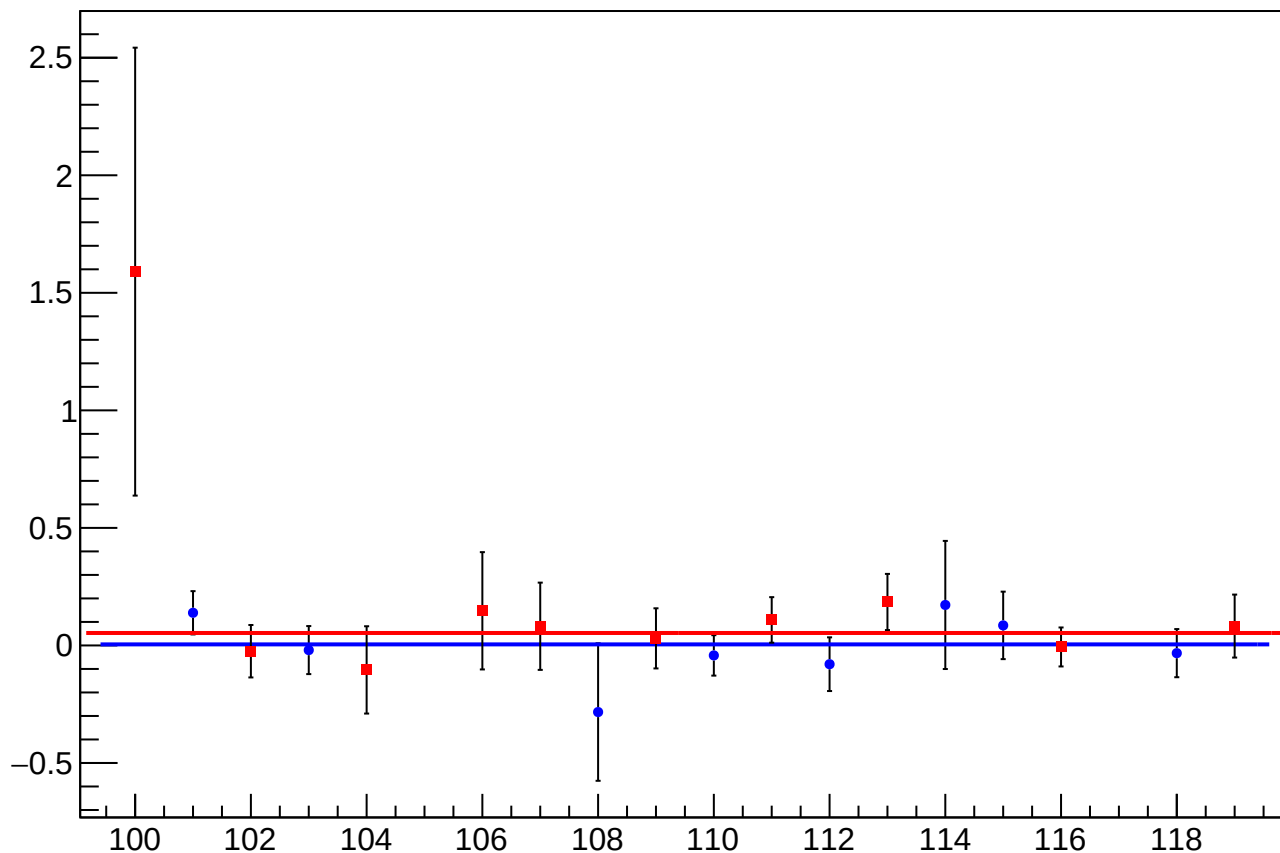
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 5173071.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam3\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.004 $\pm$ 0.041  $\chi^2$ /NDF: 4.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.053 $\pm$ 0.041  $\chi^2$ /NDF: 6.1/9

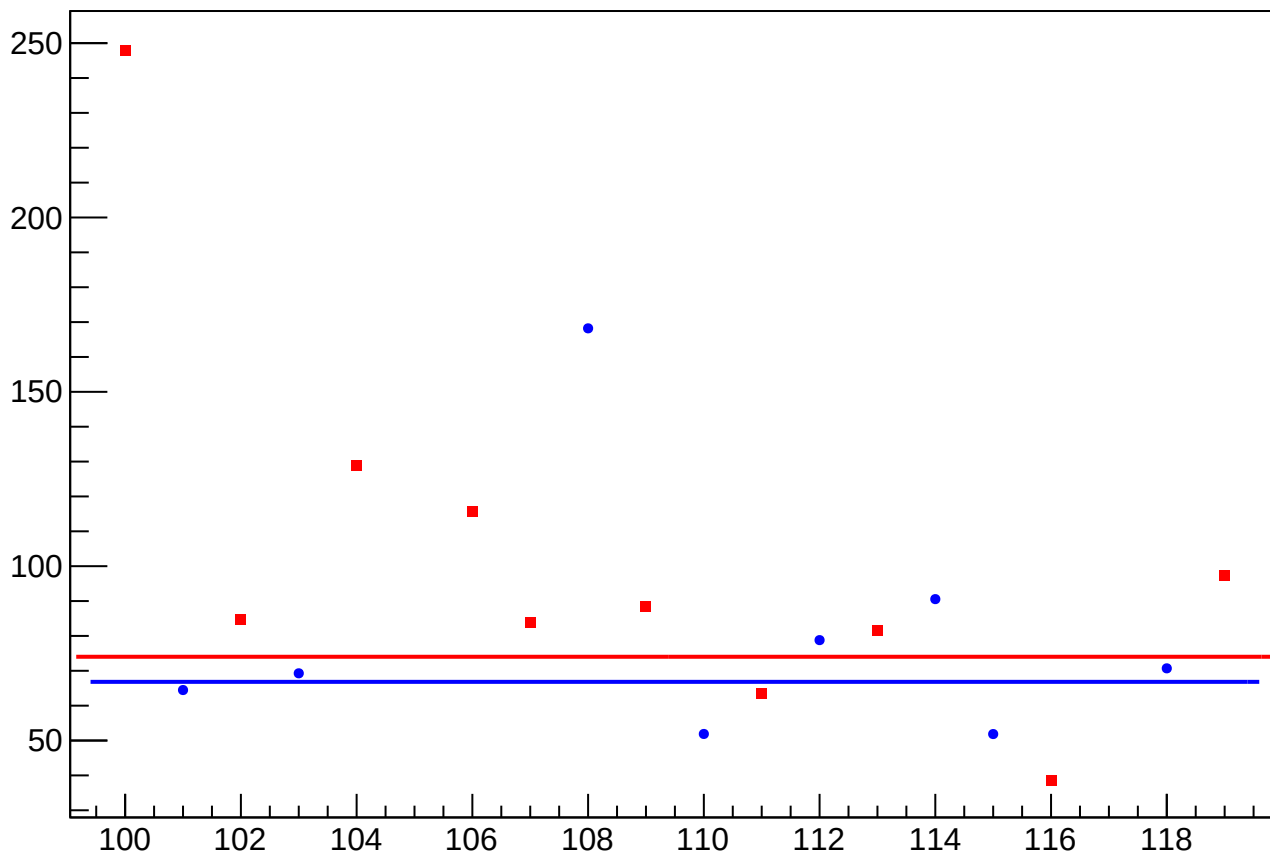
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.029 $\pm$ 0.029  $\chi^2$ /NDF: 11.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 66.830+/-0.029  $\chi^2/\text{NDF}$ : 364921.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 74.024+/-0.029  $\chi^2/\text{NDF}$ : 805911.5/9

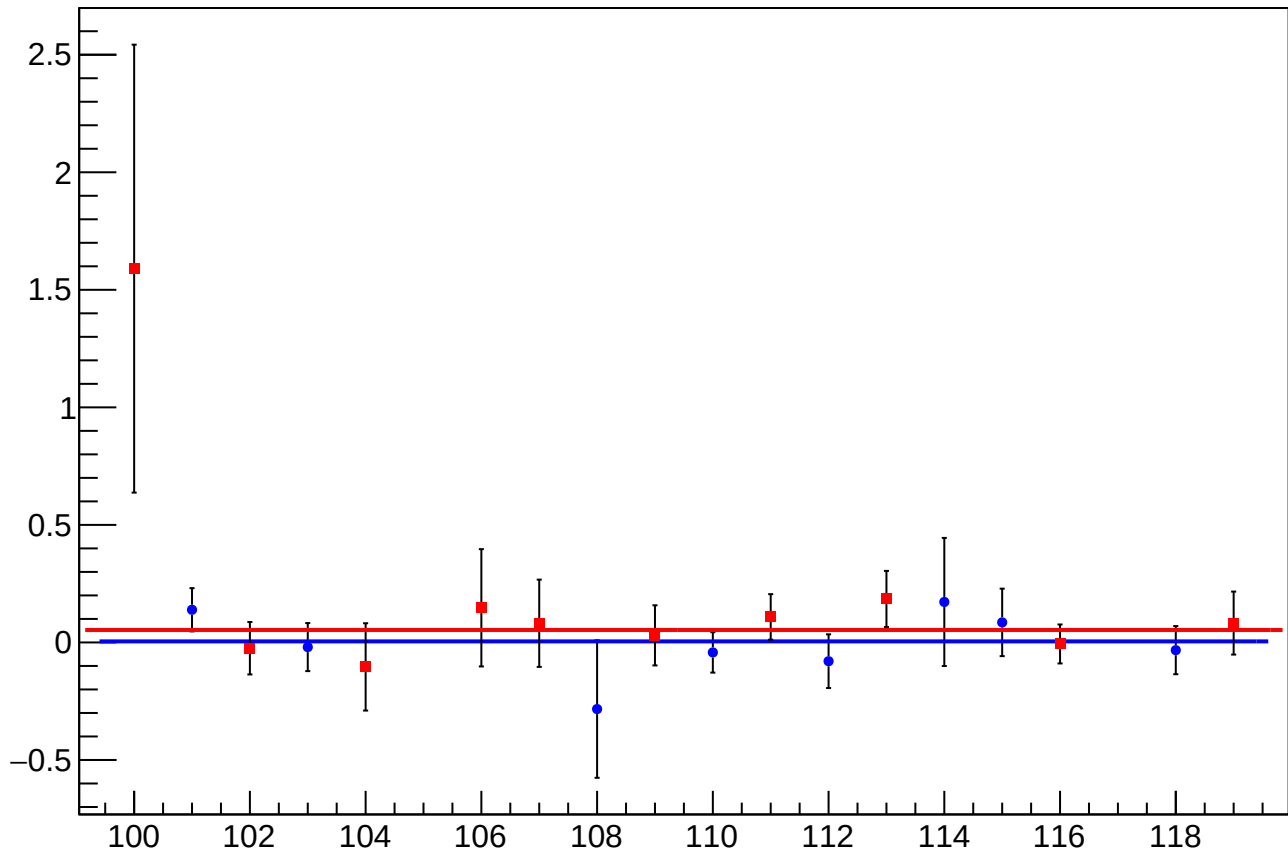
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.427+/-0.021  $\chi^2/\text{NDF}$ : 1201615.5/17

- 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: 0.004 $\pm$ 0.041  $\chi^2$ /NDF: 4.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.053 $\pm$ 0.041  $\chi^2$ /NDF: 6.1/9

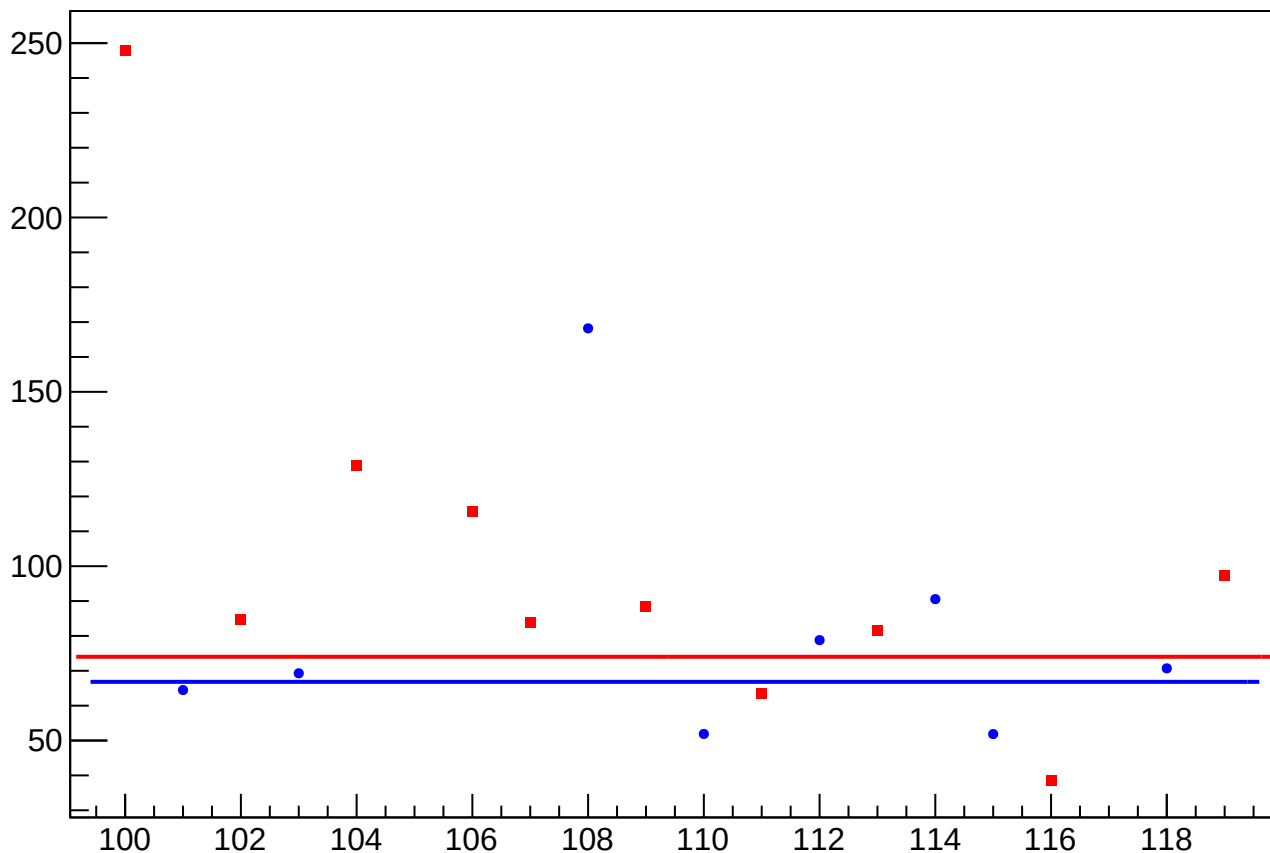
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.029 $\pm$ 0.029  $\chi^2$ /NDF: 11.6/17

- 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: 66.830+/-0.029  $\chi^2/\text{NDF}$ : 364921.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 74.024+/-0.029  $\chi^2/\text{NDF}$ : 805911.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

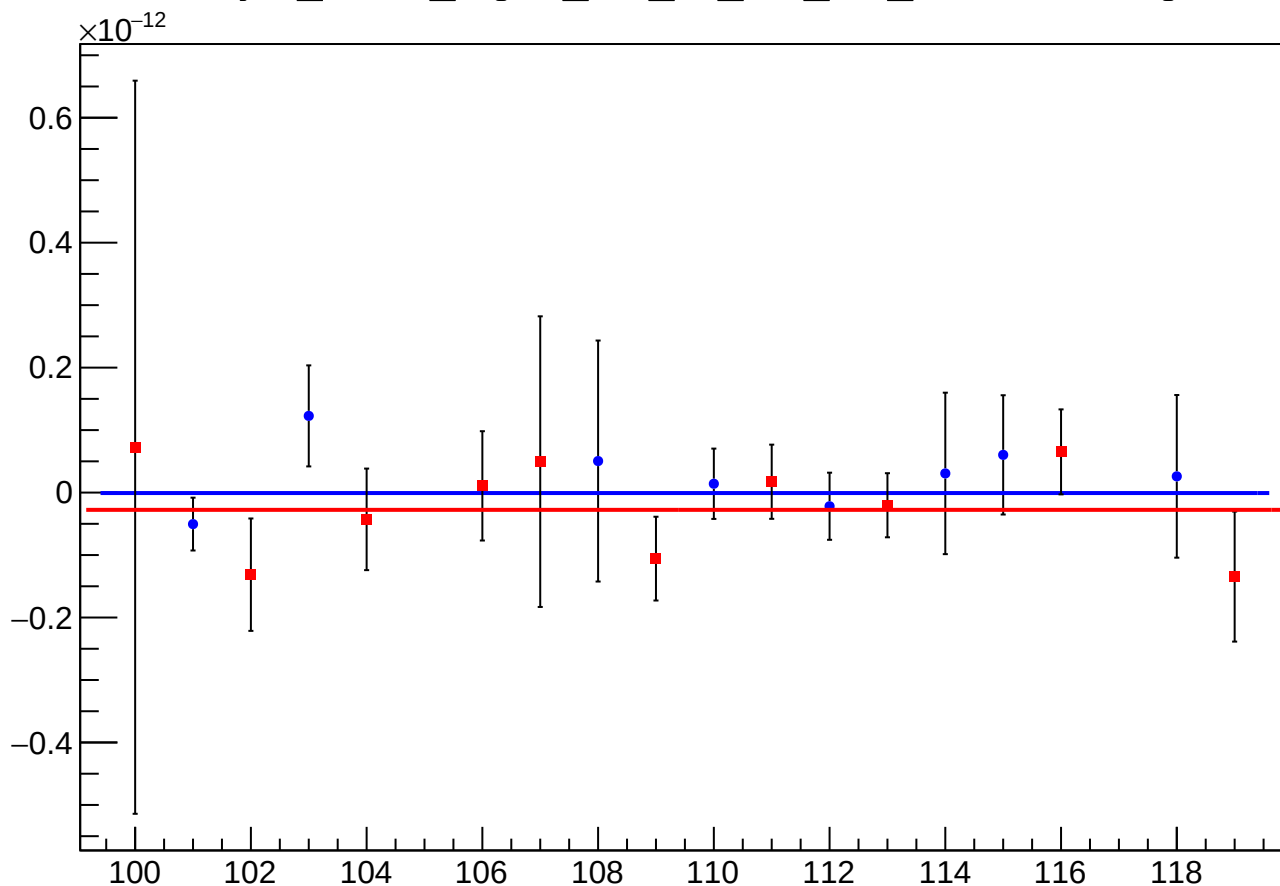
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.427+/-0.021  $\chi^2/\text{NDF}$ : 1201615.5/17

- 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  $\chi^2/\text{NDF}$ : 4.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.6/9

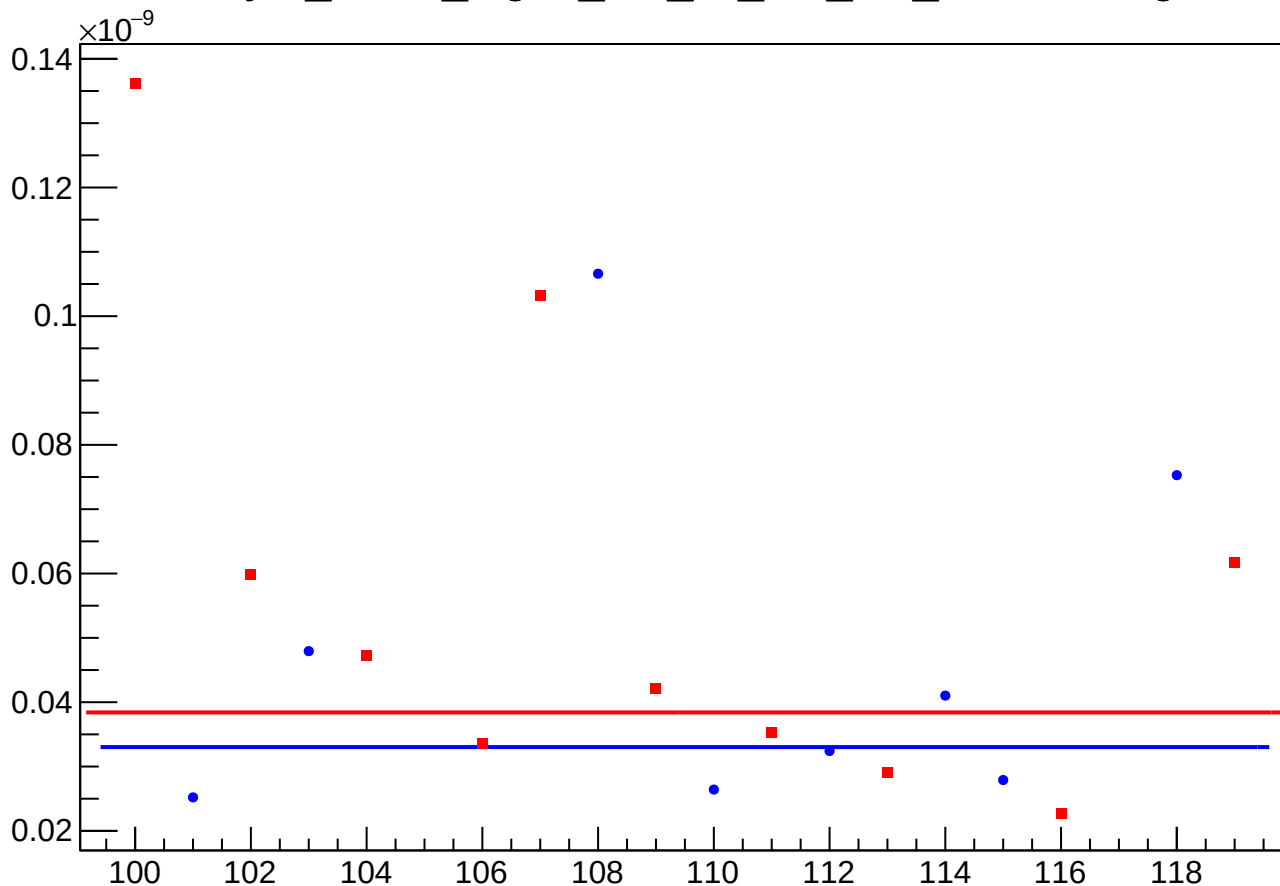
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.7/17

- 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  $\chi^2/\text{NDF}$ : 679443.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 638187.4/9

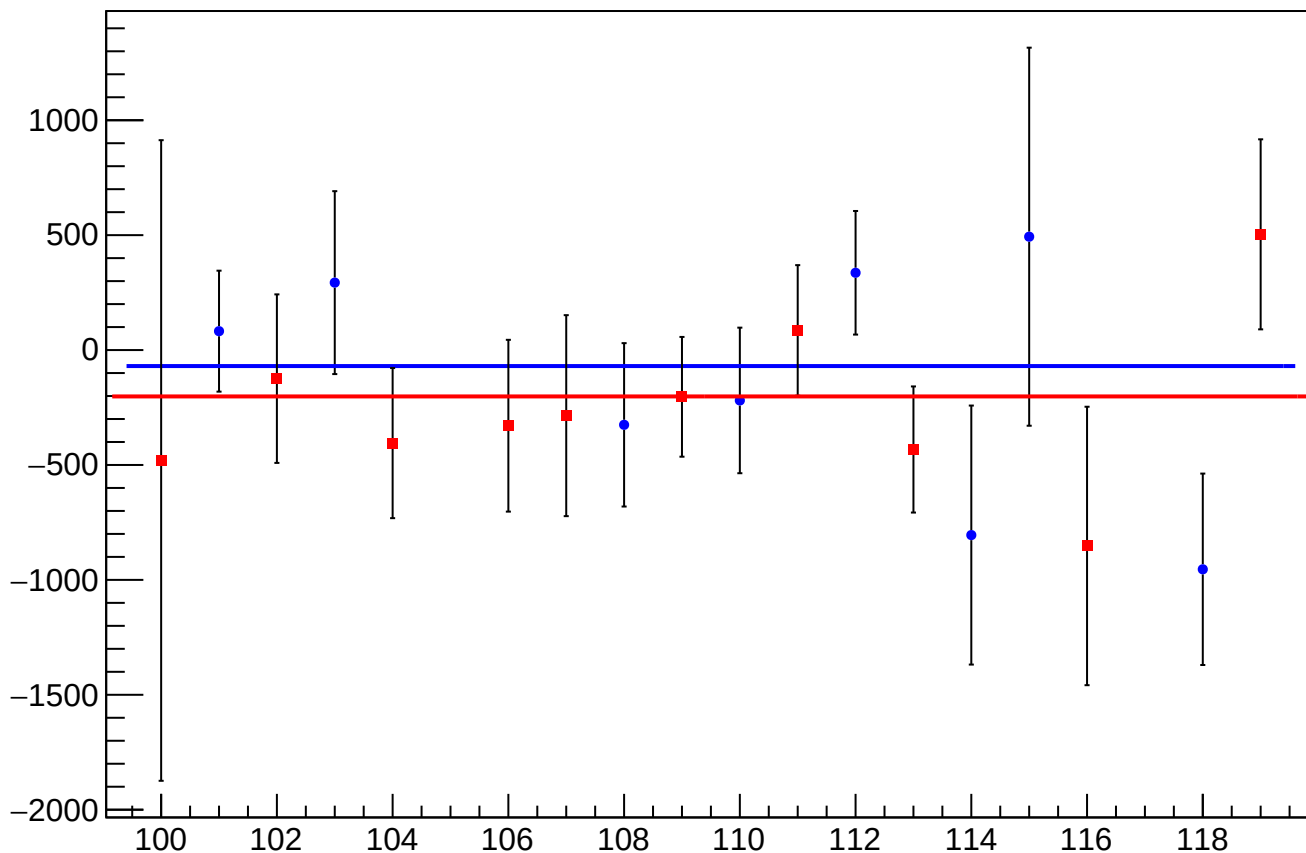
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1364796.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_mean vs Slug



Right In:  $-69.632 \pm 126.128$   $\chi^2/\text{NDF}$ : 10.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-201.769 \pm 112.721$   $\chi^2/\text{NDF}$ : 6.4/9

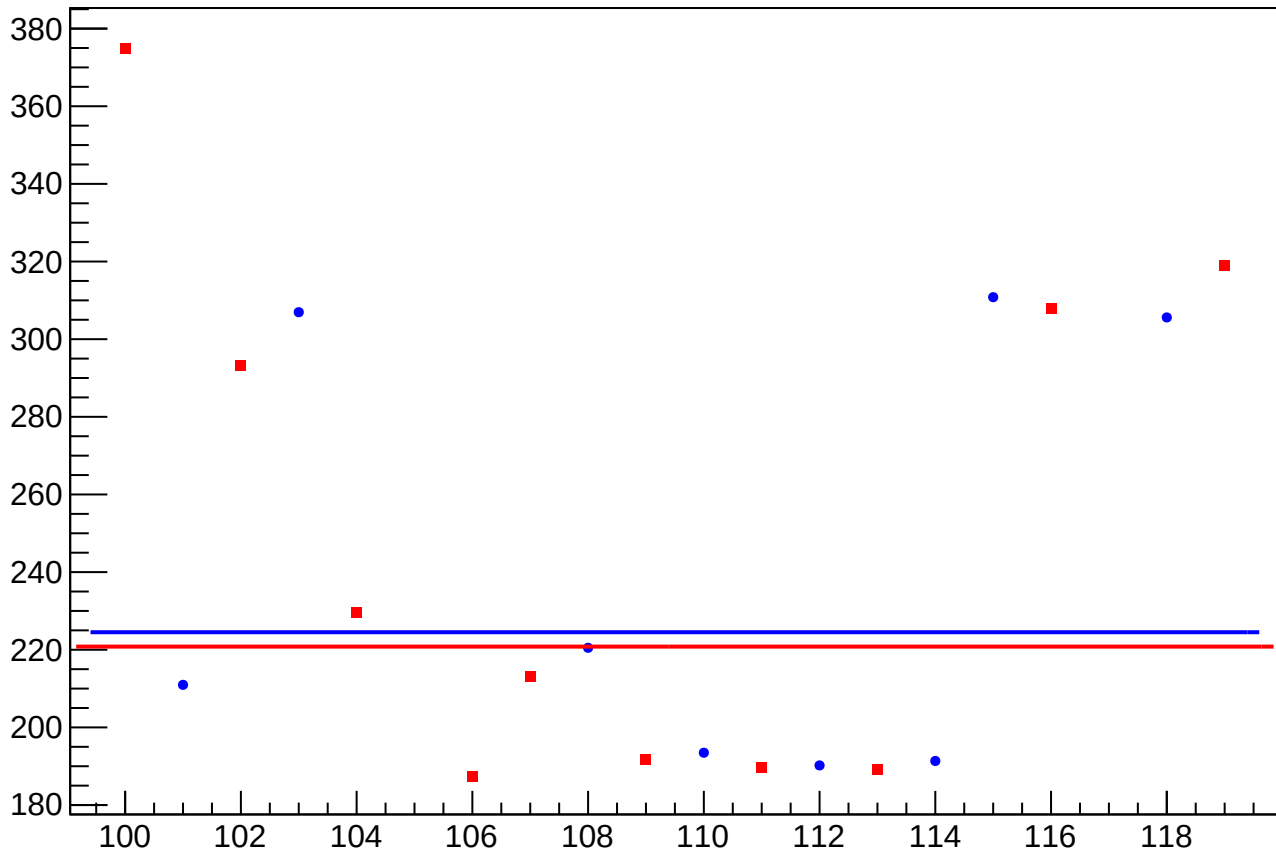
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-143.094 \pm 84.048$   $\chi^2/\text{NDF}$ : 17.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_rms vs Slug



Right In: 224.515 $\pm$ 0.089  $\chi^2$ /NDF: 247892.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 220.814 $\pm$ 0.080  $\chi^2$ /NDF: 349983.7/9

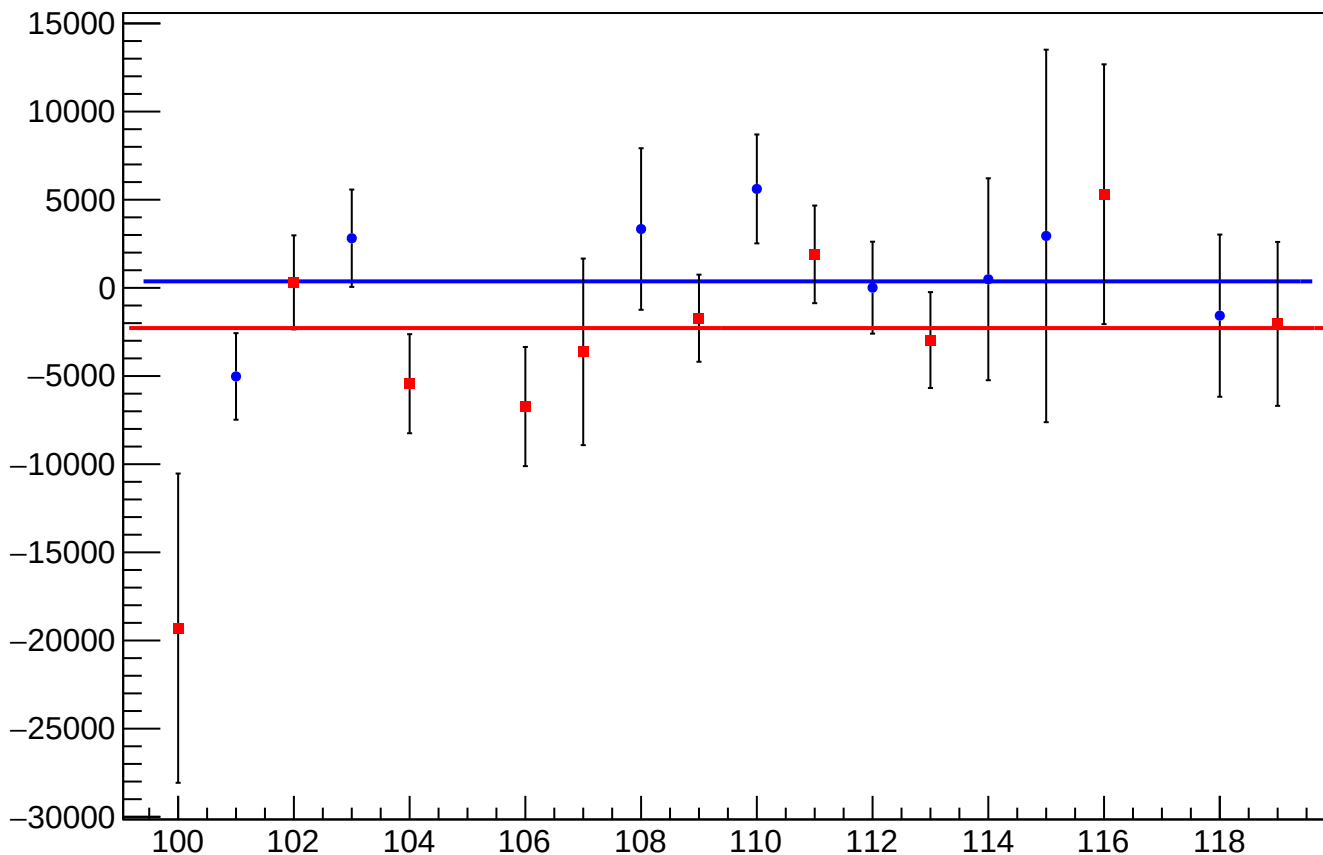
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 222.457 $\pm$ 0.059  $\chi^2$ /NDF: 598833.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_reg\_correction\_mean vs Slug



Right In: 369.088+/-1209.505  $\chi^2/\text{NDF}$ : 9.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2278.396+/-1055.376  $\chi^2/\text{NDF}$ : 11.2/9

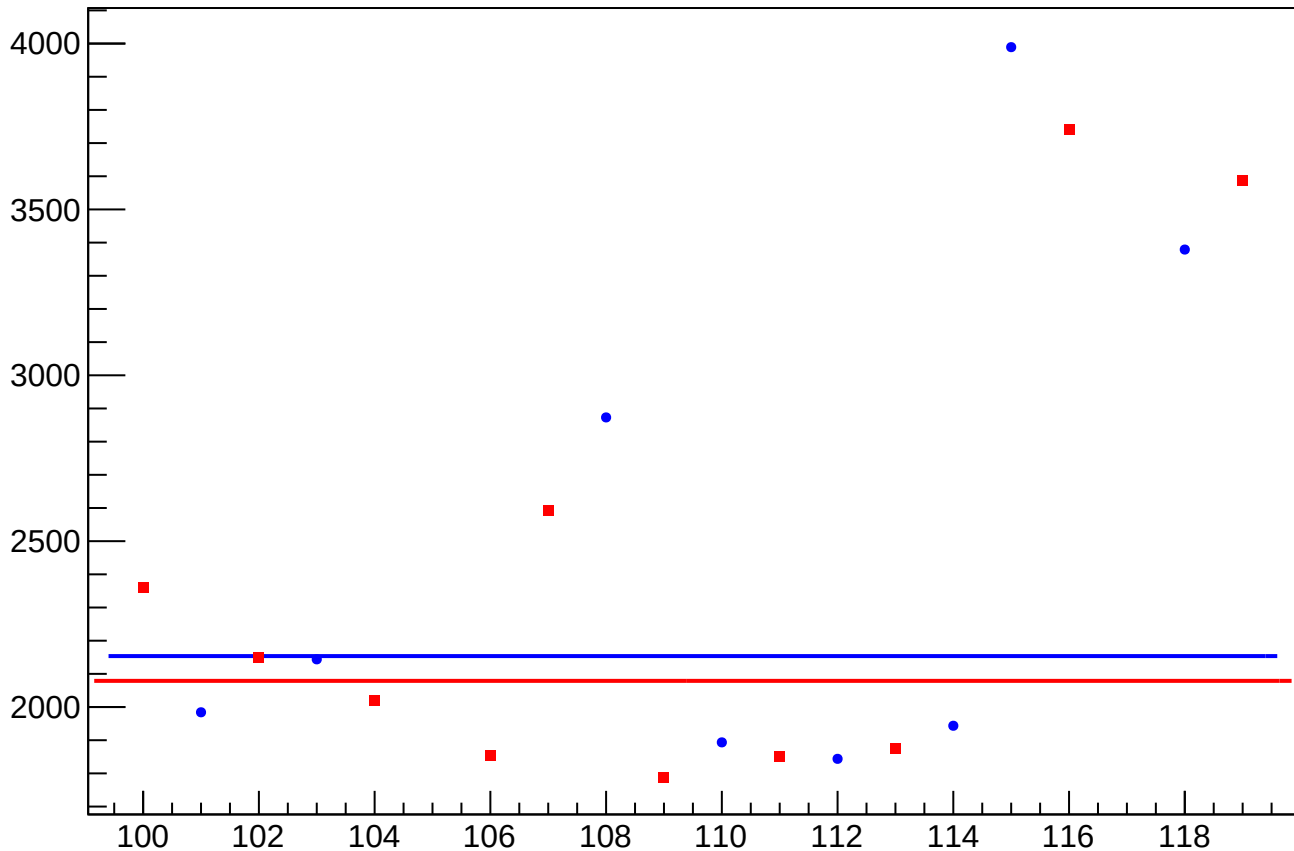
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1133.988+/-795.209  $\chi^2/\text{NDF}$ : 23.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_reg\_correction\_rms vs Slug



Right In: 2153.596 $\pm$ 0.855  $\chi^2$ /NDF: 306304.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2078.914 $\pm$ 0.746  $\chi^2$ /NDF: 396970.5/9

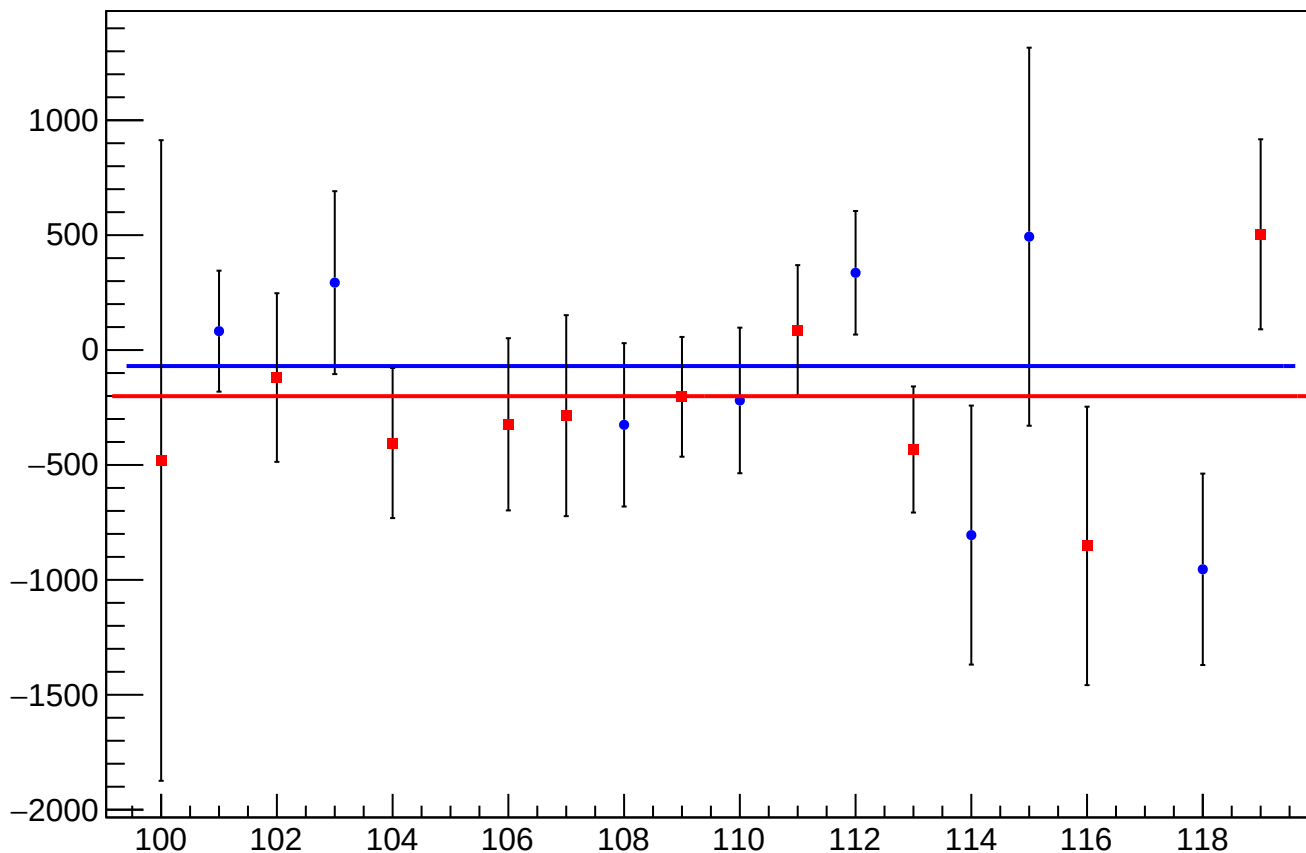
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2111.196 $\pm$ 0.562  $\chi^2$ /NDF: 707604.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam4\_mean vs Slug



Right In:  $-69.682 \pm 126.128$   $\chi^2/\text{NDF}$ : 10.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-200.661 \pm 112.750$   $\chi^2/\text{NDF}$ : 6.4/9

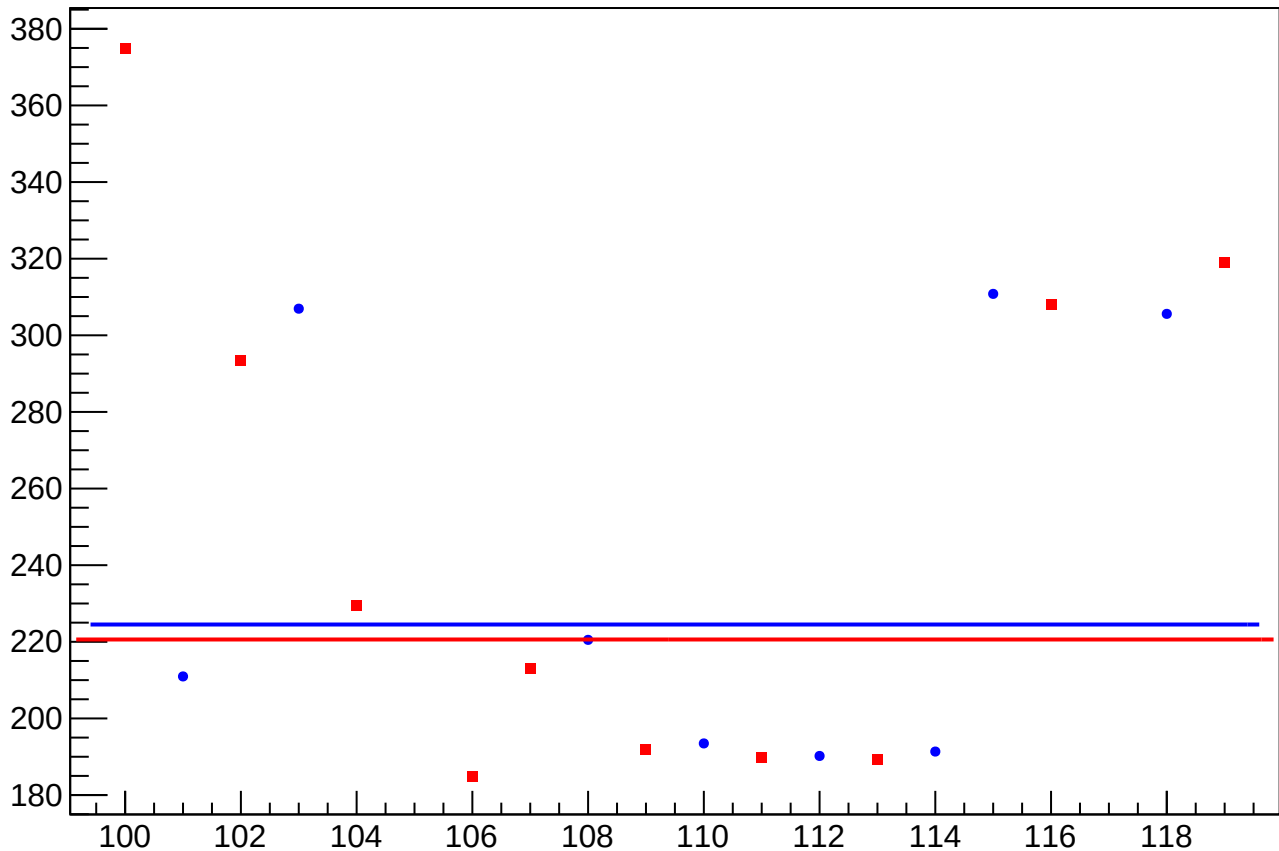
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-142.484 \pm 84.060$   $\chi^2/\text{NDF}$ : 17.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam4\_rms vs Slug



Right In: 224.515 $\pm$ 0.089  $\chi^2$ /NDF: 247894.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 220.606 $\pm$ 0.080  $\chi^2$ /NDF: 352603.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

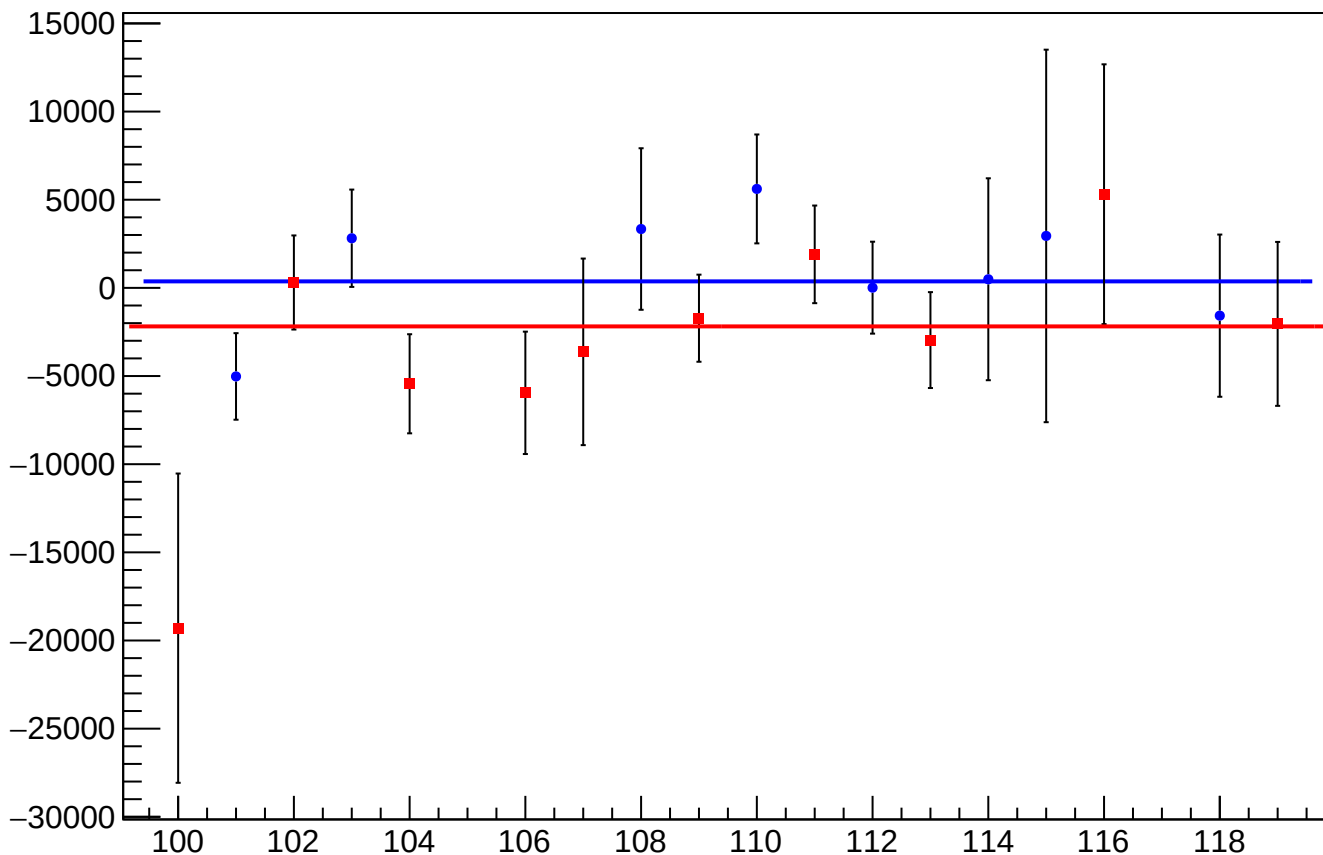
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 222.342 $\pm$ 0.059  $\chi^2$ /NDF: 601565.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam4\_cor\_correction\_mean vs Slug



Right In: 368.809+/-1209.522  $\chi^2/\text{NDF}$ : 9.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2184.976+/-1058.160  $\chi^2/\text{NDF}$ : 10.6/9

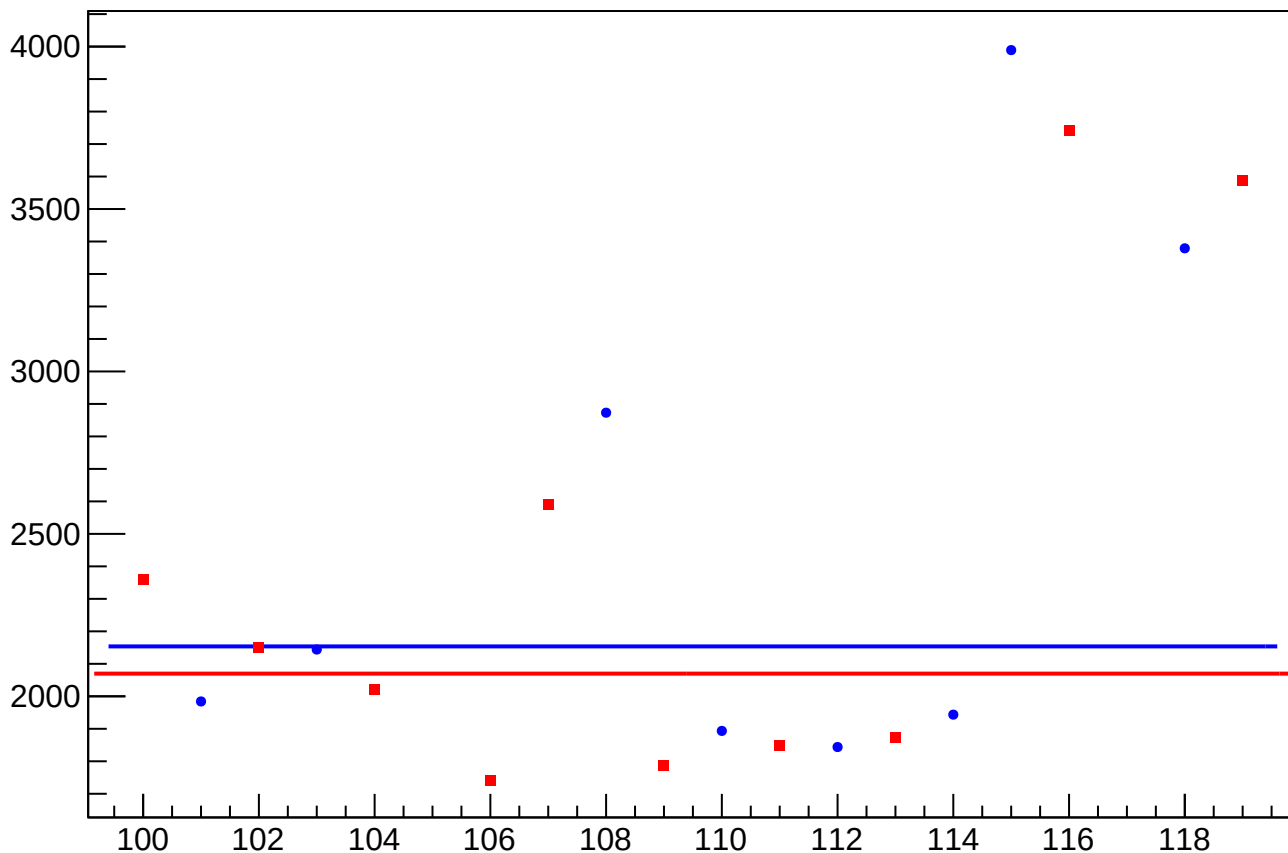
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1077.786+/-796.403  $\chi^2/\text{NDF}$ : 22.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_cor\_correction\_rms vs Slug



Right In: 2153.627 $\pm$ 0.855  $\chi^2$ /NDF: 306302.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2069.829 $\pm$ 0.748  $\chi^2$ /NDF: 406801.9/9

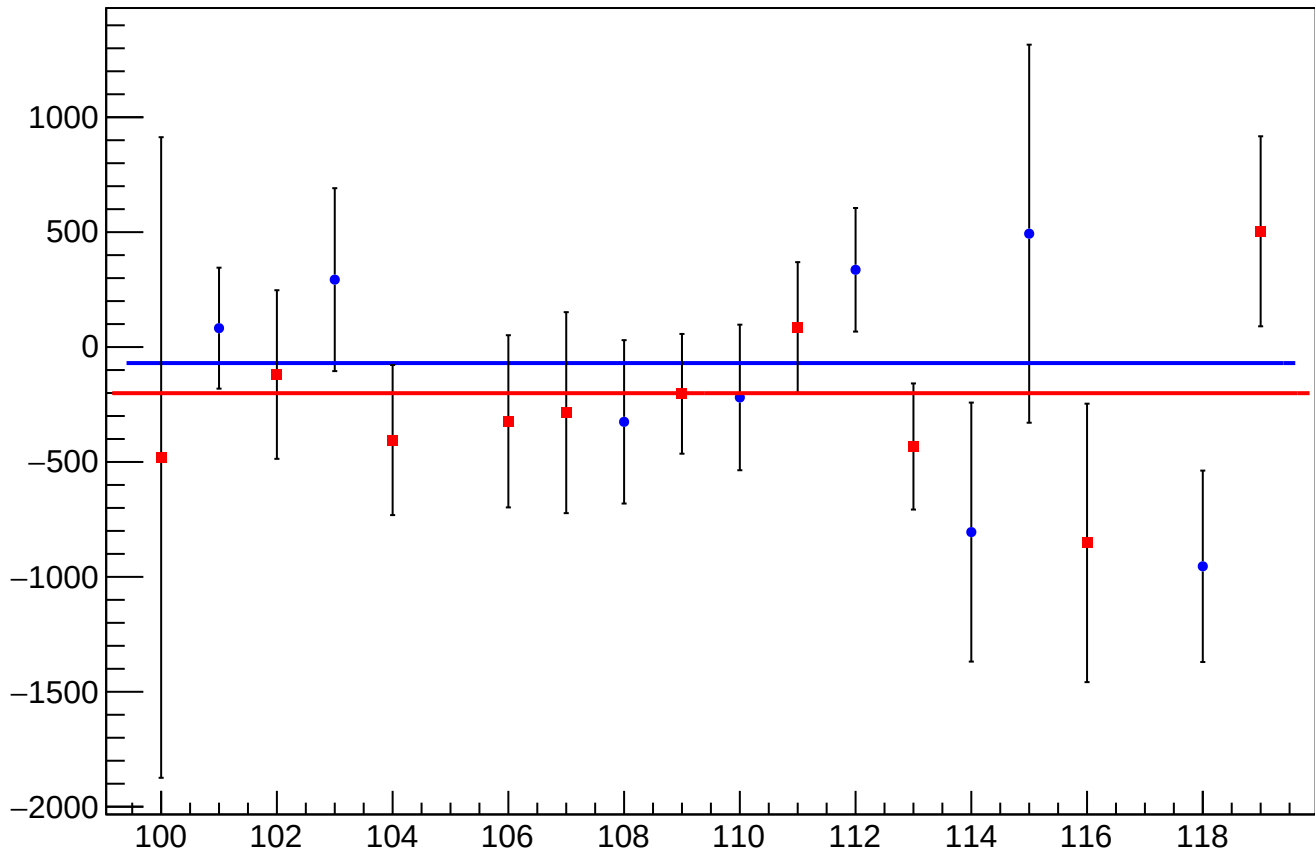
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2106.160 $\pm$ 0.563  $\chi^2$ /NDF: 718542.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam4\_mean vs Slug



Right In: -69.682 $\pm$ 126.128  $\chi^2$ /NDF: 10.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -200.661 $\pm$ 112.750  $\chi^2$ /NDF: 6.4/9

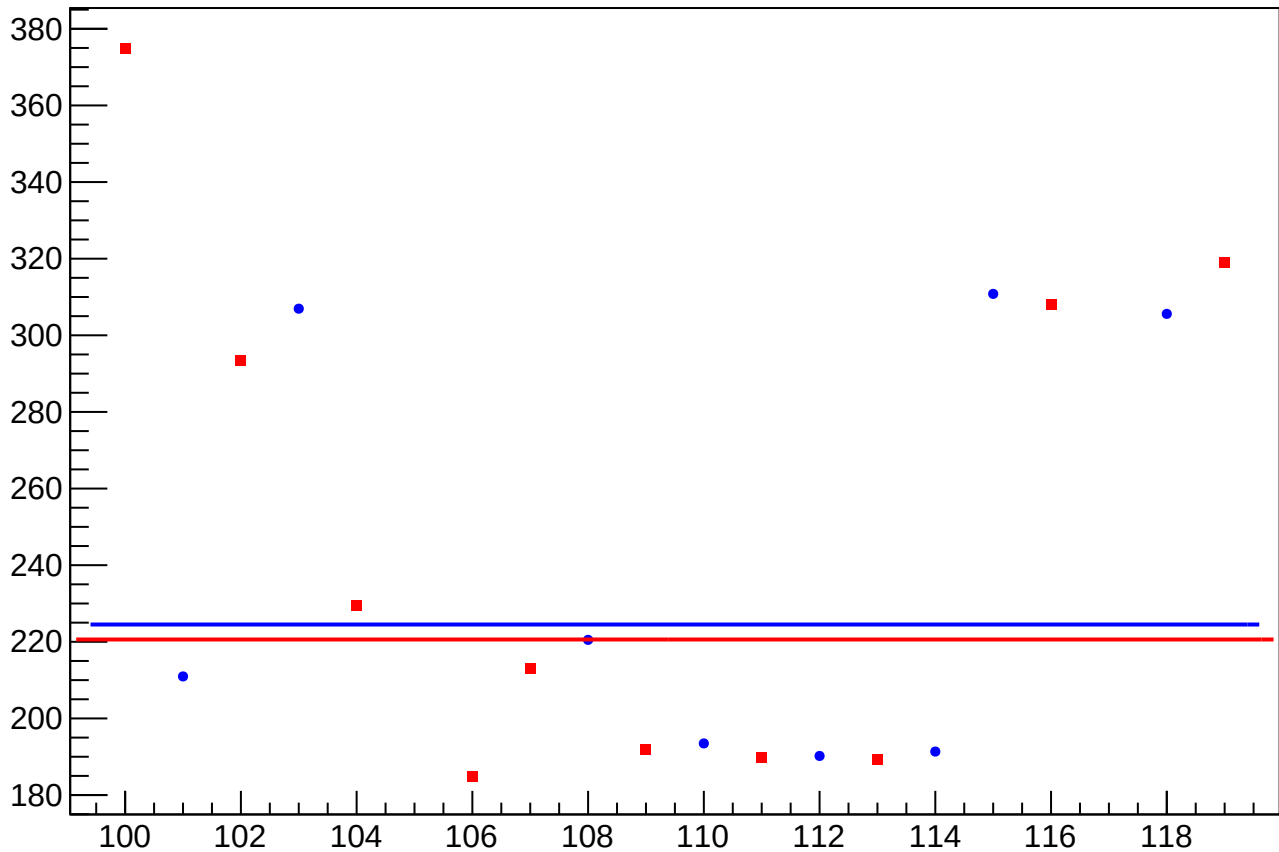
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -142.484 $\pm$ 84.060  $\chi^2$ /NDF: 17.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam4\_rms vs Slug



Right In: 224.515 $\pm$ 0.089  $\chi^2$ /NDF: 247894.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 220.606 $\pm$ 0.080  $\chi^2$ /NDF: 352603.3/9

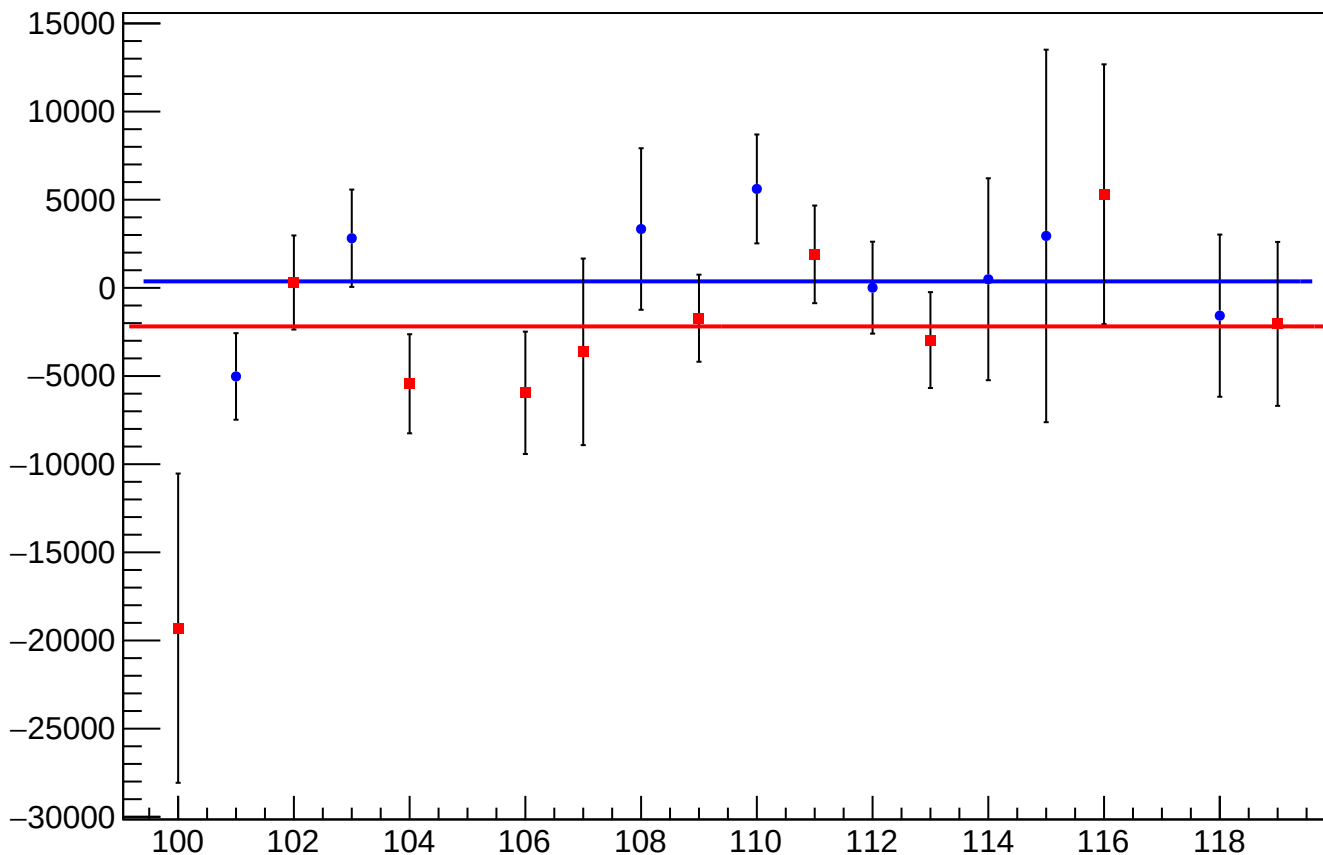
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 222.342 $\pm$ 0.059  $\chi^2$ /NDF: 601565.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_eigen\_cor\_correction\_mean vs Slug



Right In: 368.809+/-1209.522  $\chi^2/\text{NDF}$ : 9.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2184.976+/-1058.160  $\chi^2/\text{NDF}$ : 10.6/9

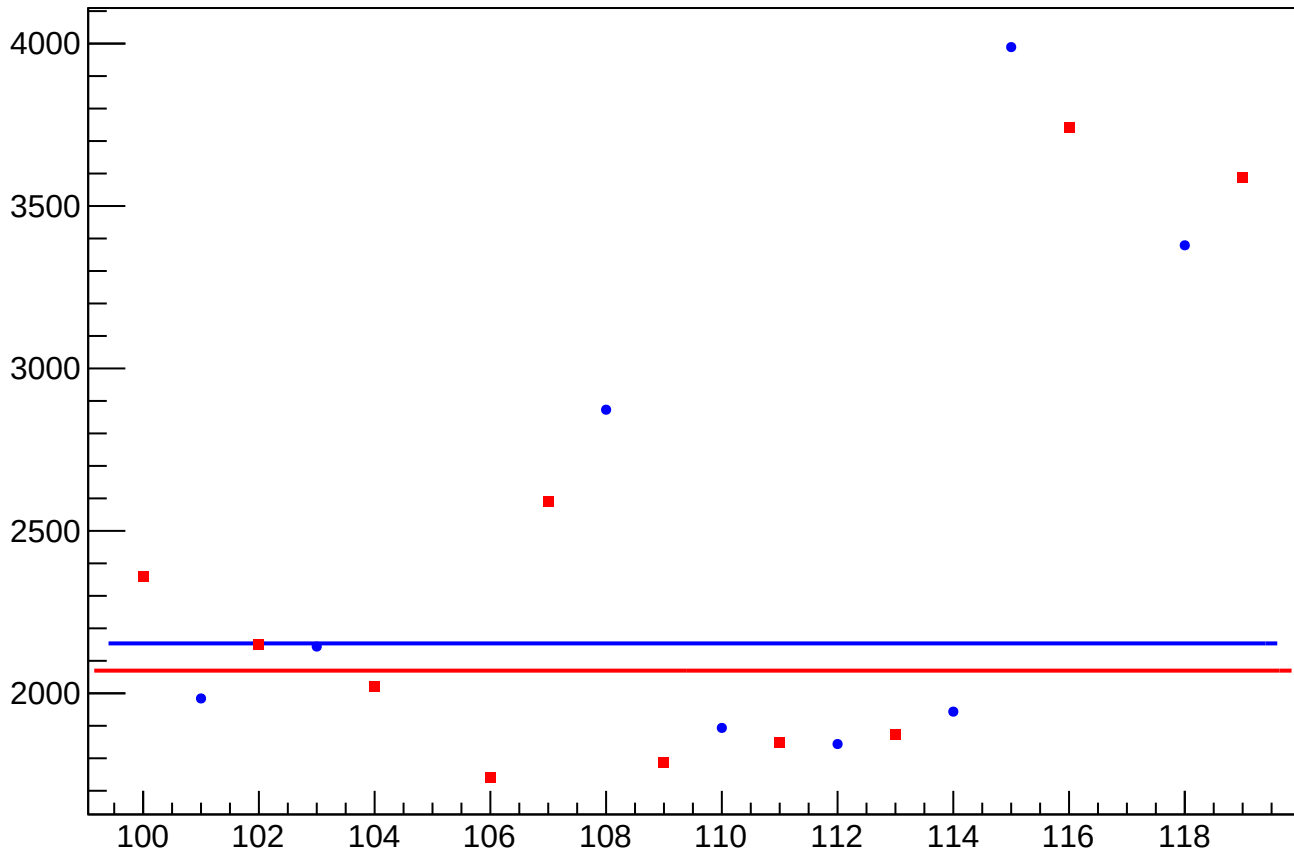
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1077.786+/-796.403  $\chi^2/\text{NDF}$ : 22.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_eigen\_cor\_correction\_rms vs Slug



Right In: 2153.627 $\pm$ 0.855  $\chi^2$ /NDF: 306302.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2069.829 $\pm$ 0.748  $\chi^2$ /NDF: 406801.9/9

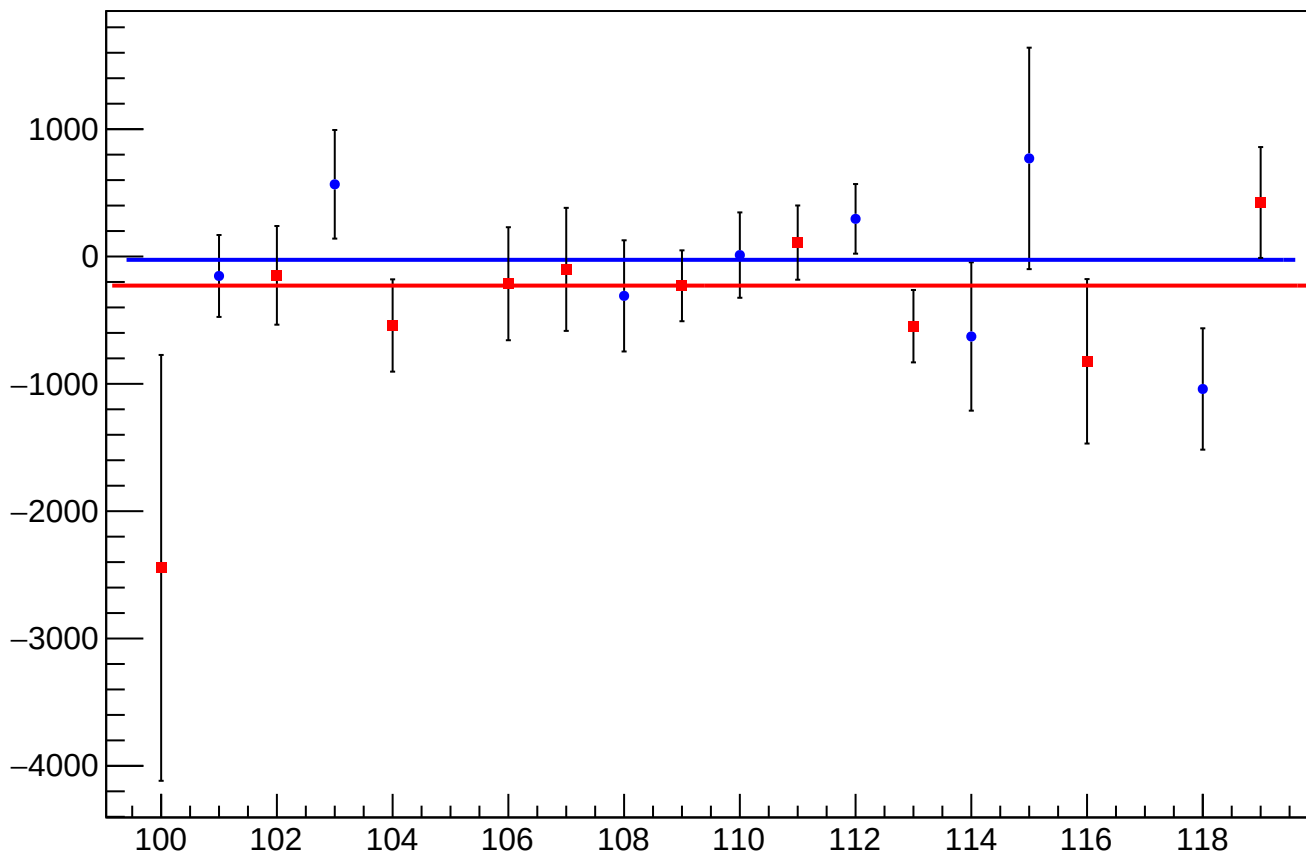
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2106.160 $\pm$ 0.563  $\chi^2$ /NDF: 718542.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam4\_mean vs Slug



Right In: -26.110 $\pm$ 139.537  $\chi^2$ /NDF: 10.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -228.445 $\pm$ 120.625  $\chi^2$ /NDF: 8.3/9

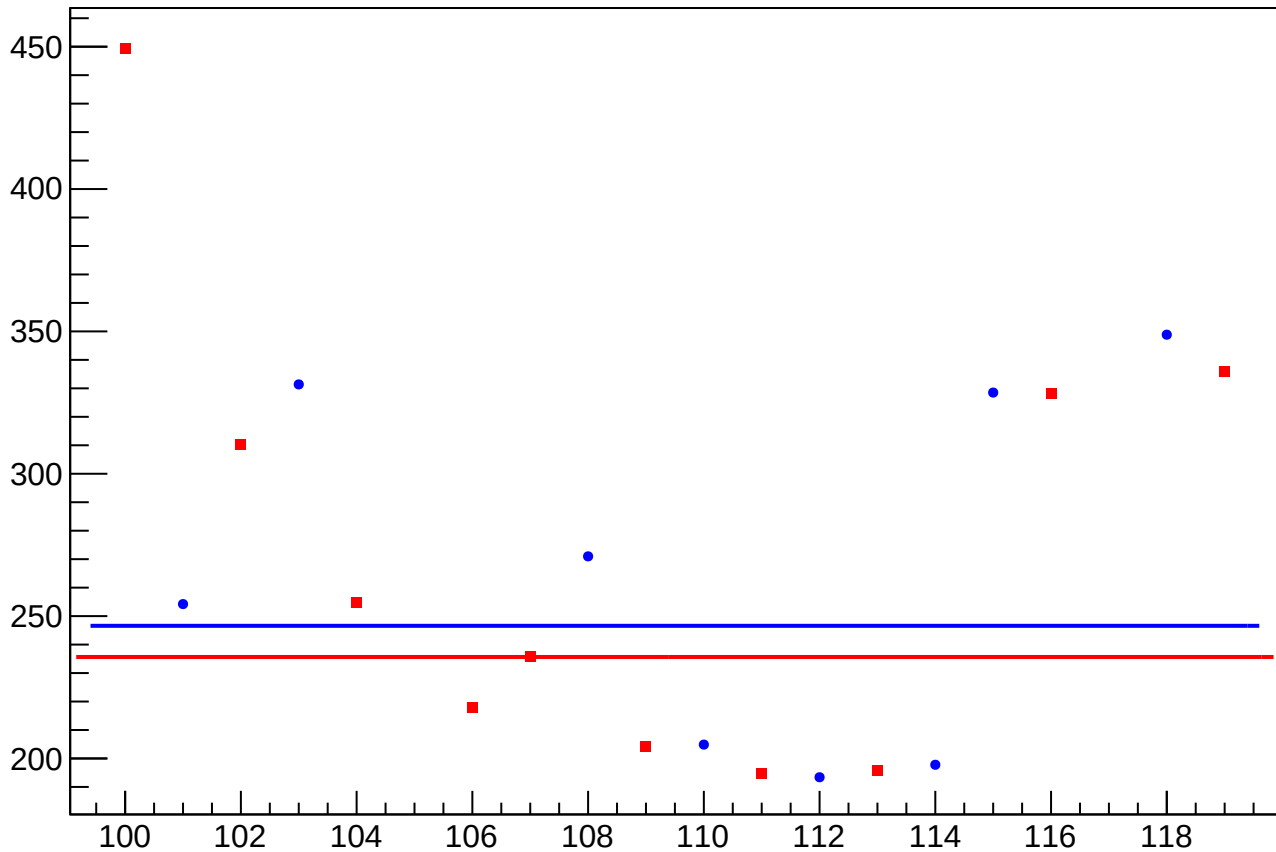
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -141.909 $\pm$ 91.254  $\chi^2$ /NDF: 19.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam4\_rms vs Slug



Right In: 246.594 $\pm$ 0.099  $\chi^2$ /NDF: 316980.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 235.646 $\pm$ 0.085  $\chi^2$ /NDF: 367196.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

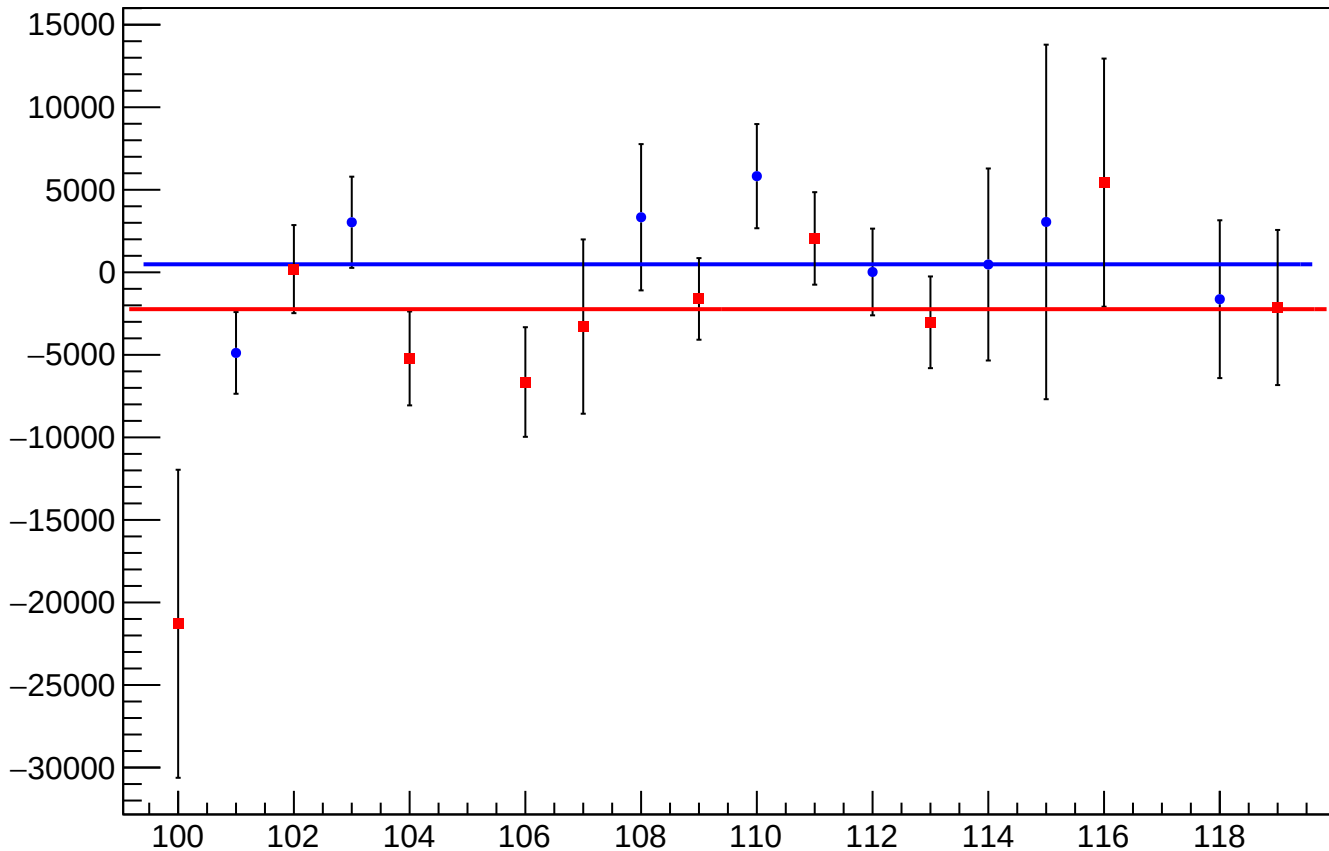
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 240.328 $\pm$ 0.065  $\chi^2$ /NDF: 691221.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam4\_dit\_correction\_mean vs Slug



Right In: 486.140+/-1219.288  $\chi^2/\text{NDF}$ : 9.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2232.111+/-1062.592  $\chi^2/\text{NDF}$ : 11.4/9

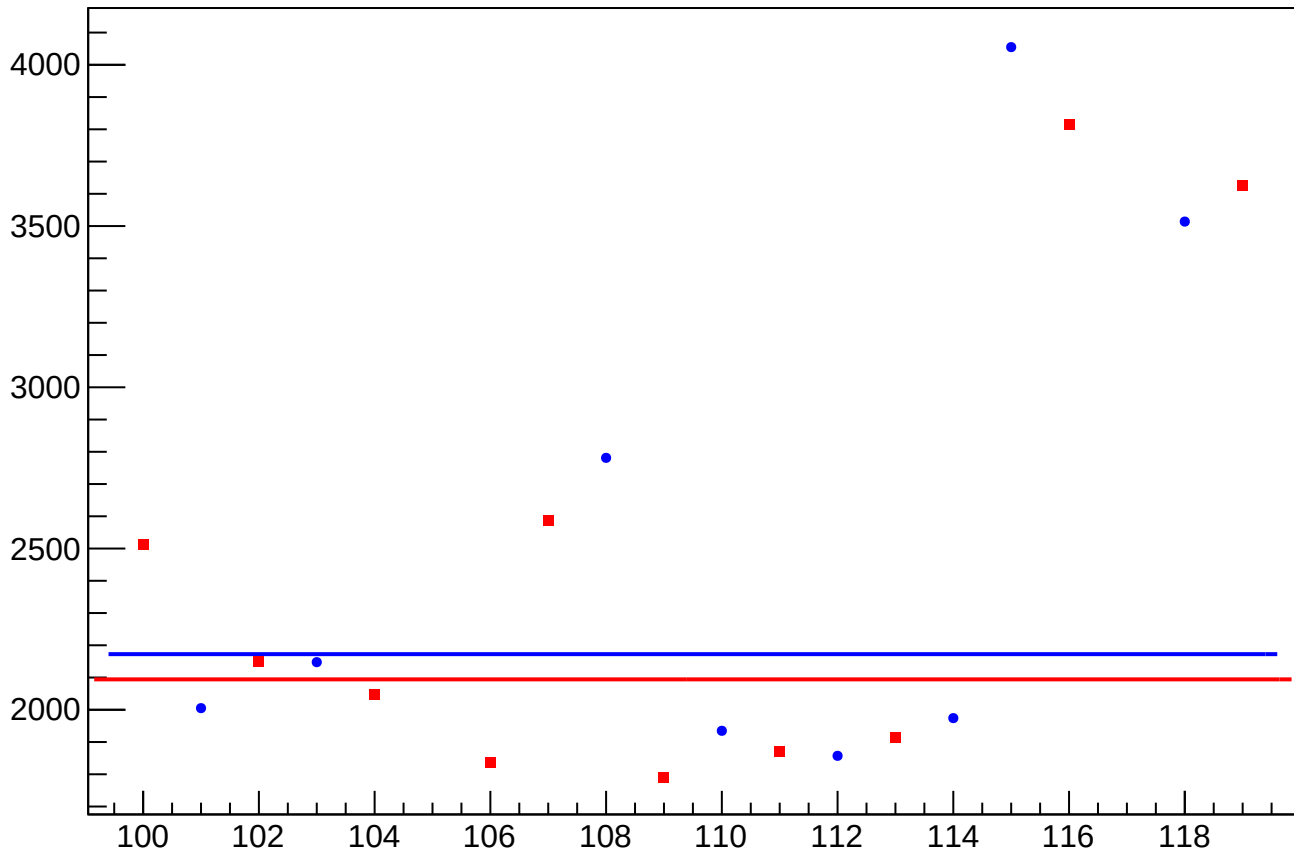
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1058.771+/-801.076  $\chi^2/\text{NDF}$ : 23.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_dit\_correction\_rms vs Slug



Right In: 2172.490 $\pm$ 0.862  $\chi^2$ /NDF: 308478.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2094.280 $\pm$ 0.751  $\chi^2$ /NDF: 403532.5/9

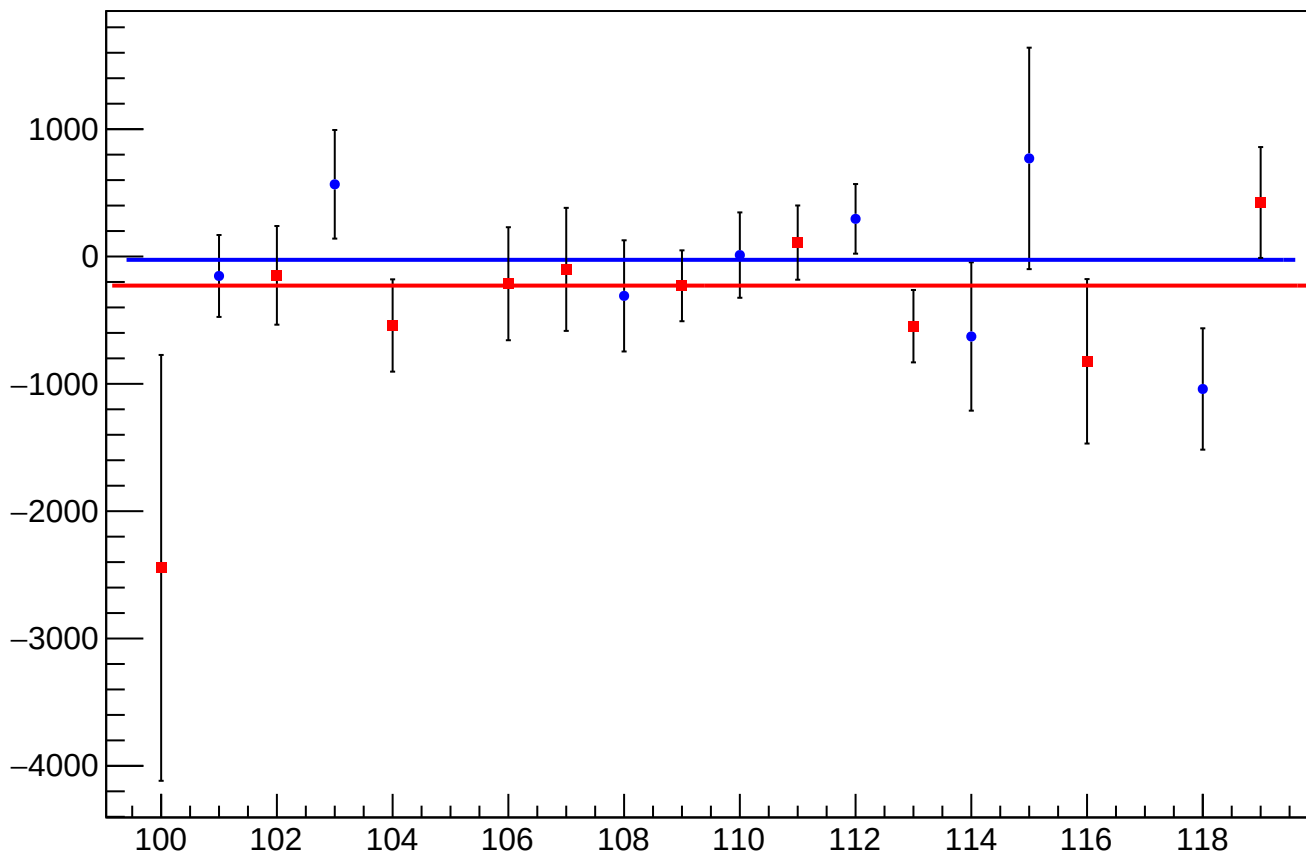
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2128.040 $\pm$ 0.566  $\chi^2$ /NDF: 716687.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam4\_mean vs Slug



Right In:  $-26.111 \pm 139.537$   $\chi^2/\text{NDF}$ : 10.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-228.442 \pm 120.625$   $\chi^2/\text{NDF}$ : 8.3/9

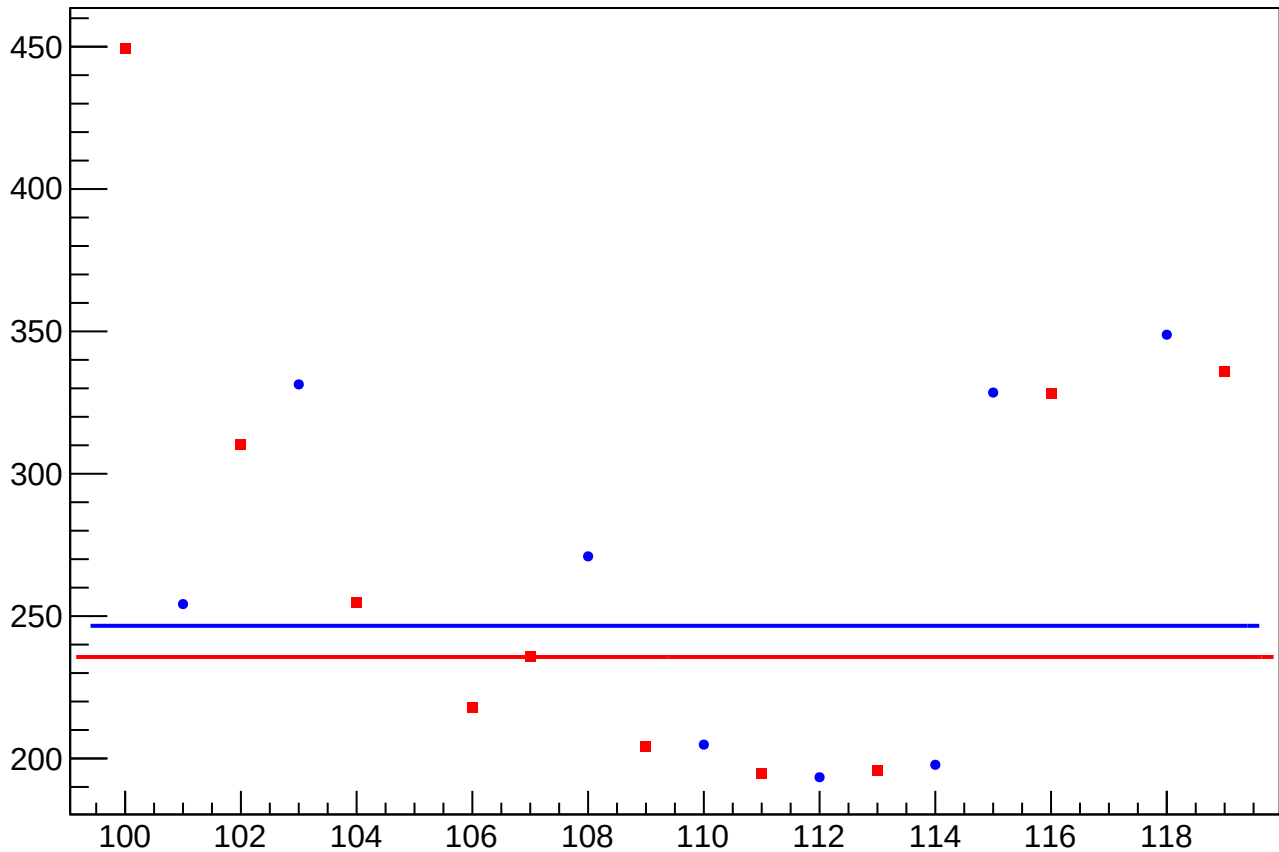
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-141.908 \pm 91.254$   $\chi^2/\text{NDF}$ : 19.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam4\_rms vs Slug



Right In: 246.594 $\pm$ 0.099  $\chi^2$ /NDF: 316985.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 235.646 $\pm$ 0.085  $\chi^2$ /NDF: 367198.4/9

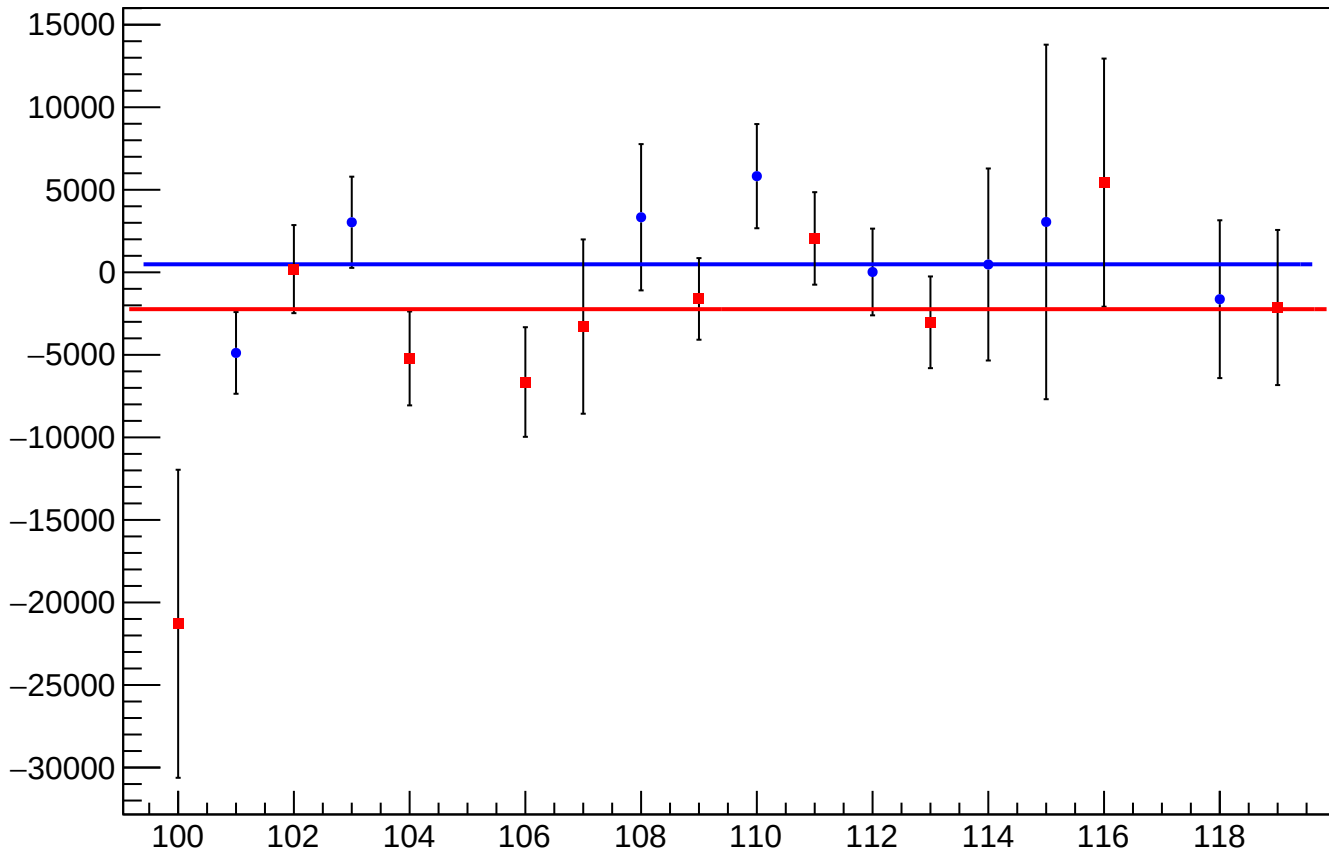
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 240.328 $\pm$ 0.065  $\chi^2$ /NDF: 691229.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_eigen\_dit\_correction\_mean vs Slug



Right In: 486.141+/-1219.288  $\chi^2/\text{NDF}$ : 9.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2232.108+/-1062.592  $\chi^2/\text{NDF}$ : 11.4/9

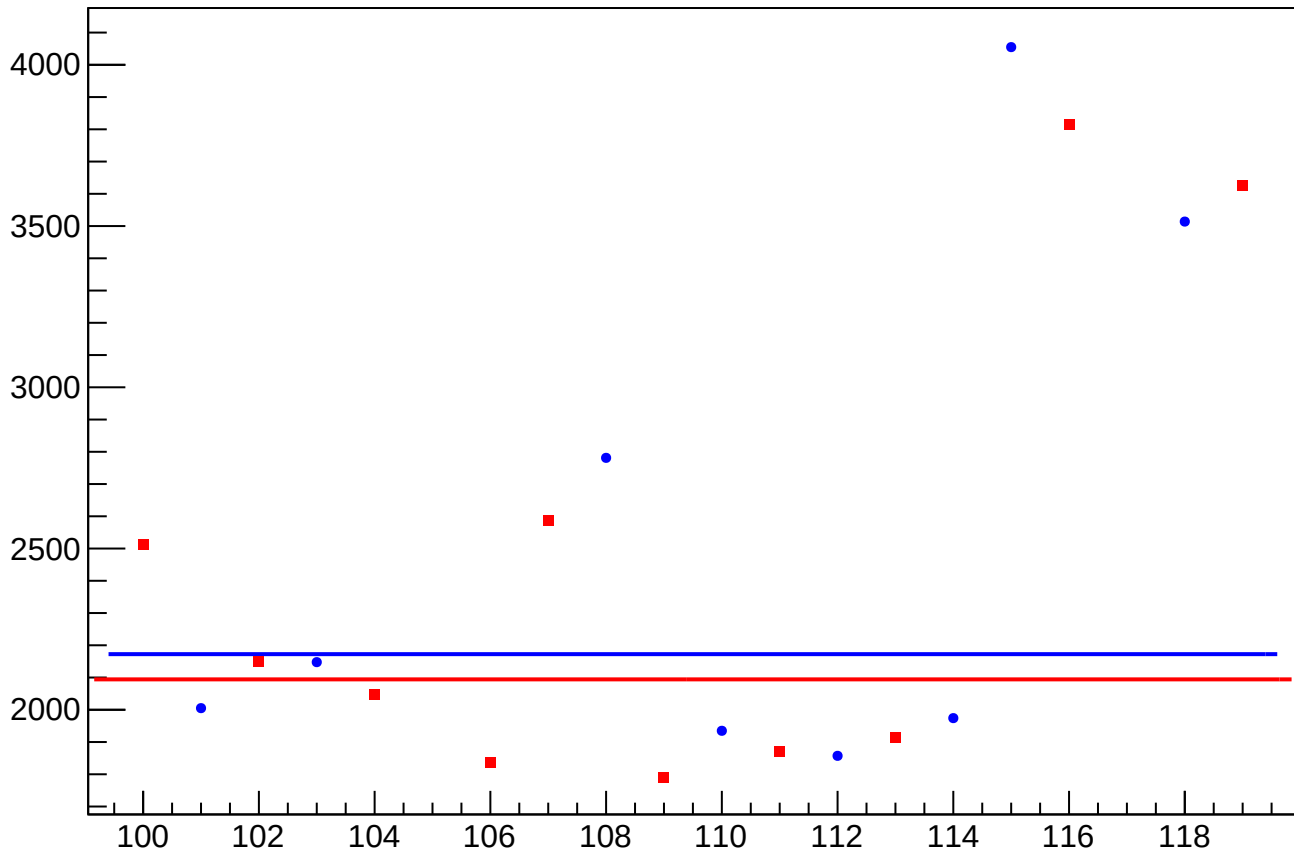
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1058.769+/-801.075  $\chi^2/\text{NDF}$ : 23.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_eigen\_dit\_correction\_rms vs Slug



Right In: 2172.489 $\pm$ 0.862  $\chi^2$ /NDF: 308479.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2094.279 $\pm$ 0.751  $\chi^2$ /NDF: 403534.5/9

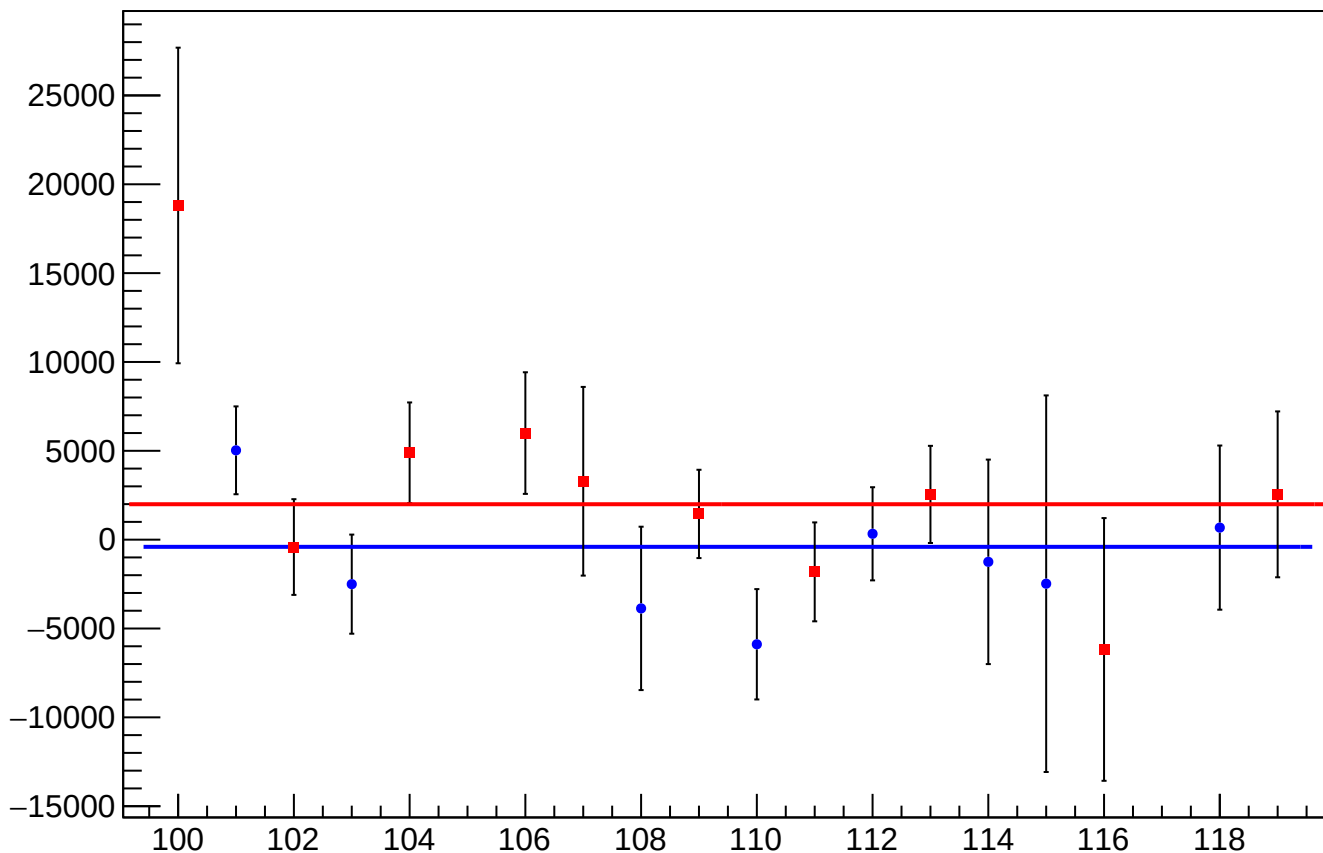
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2128.038 $\pm$ 0.566  $\chi^2$ /NDF: 716691.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_mean vs Slug



Right In: -403.856+/-1217.362  $\chi^2/\text{NDF}$ : 9.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1994.101+/-1062.896  $\chi^2/\text{NDF}$ : 10.1/9

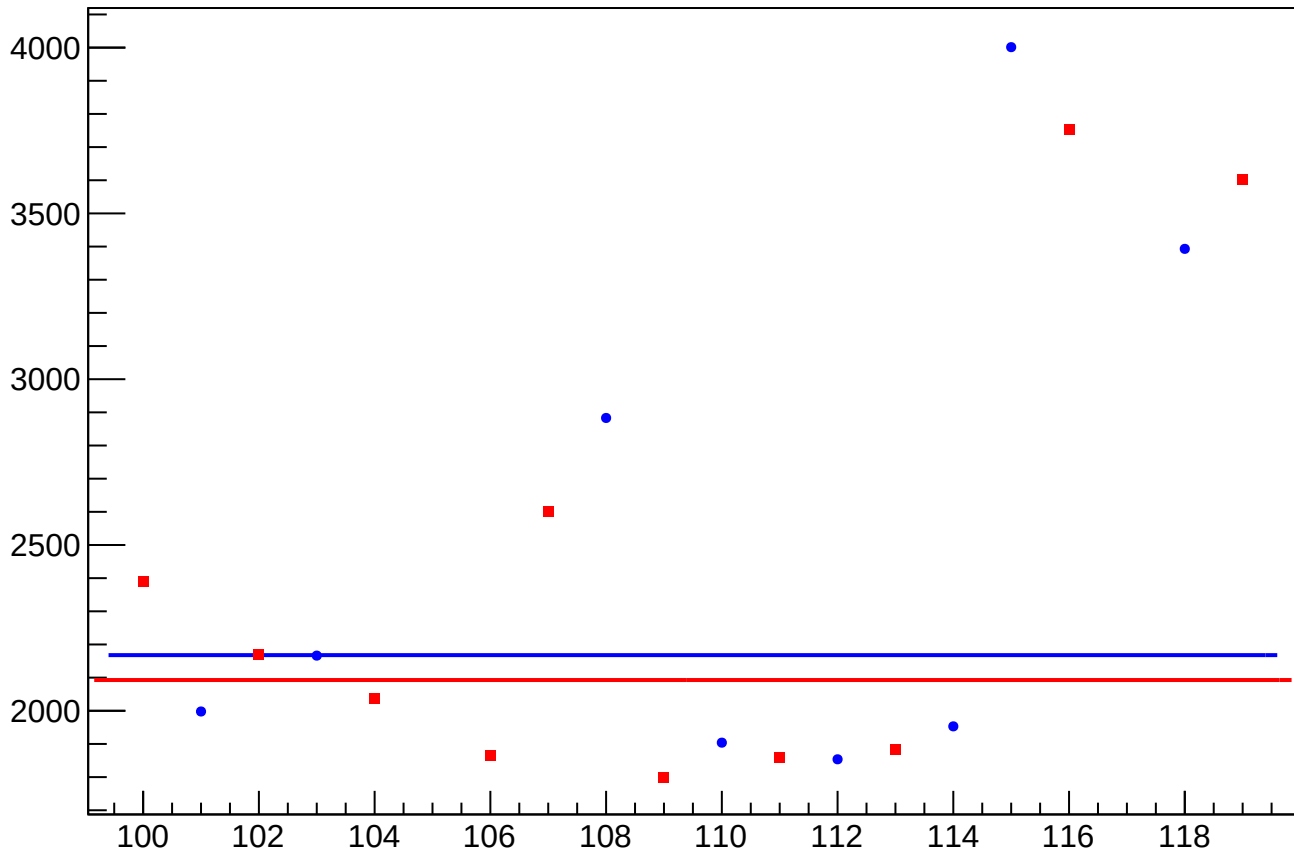
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 956.820+/-800.659  $\chi^2/\text{NDF}$ : 21.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_rms vs Slug



Right In: 2167.869 $\pm$ 0.861  $\chi^2$ /NDF: 304444.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2092.779 $\pm$ 0.752  $\chi^2$ /NDF: 395436.5/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

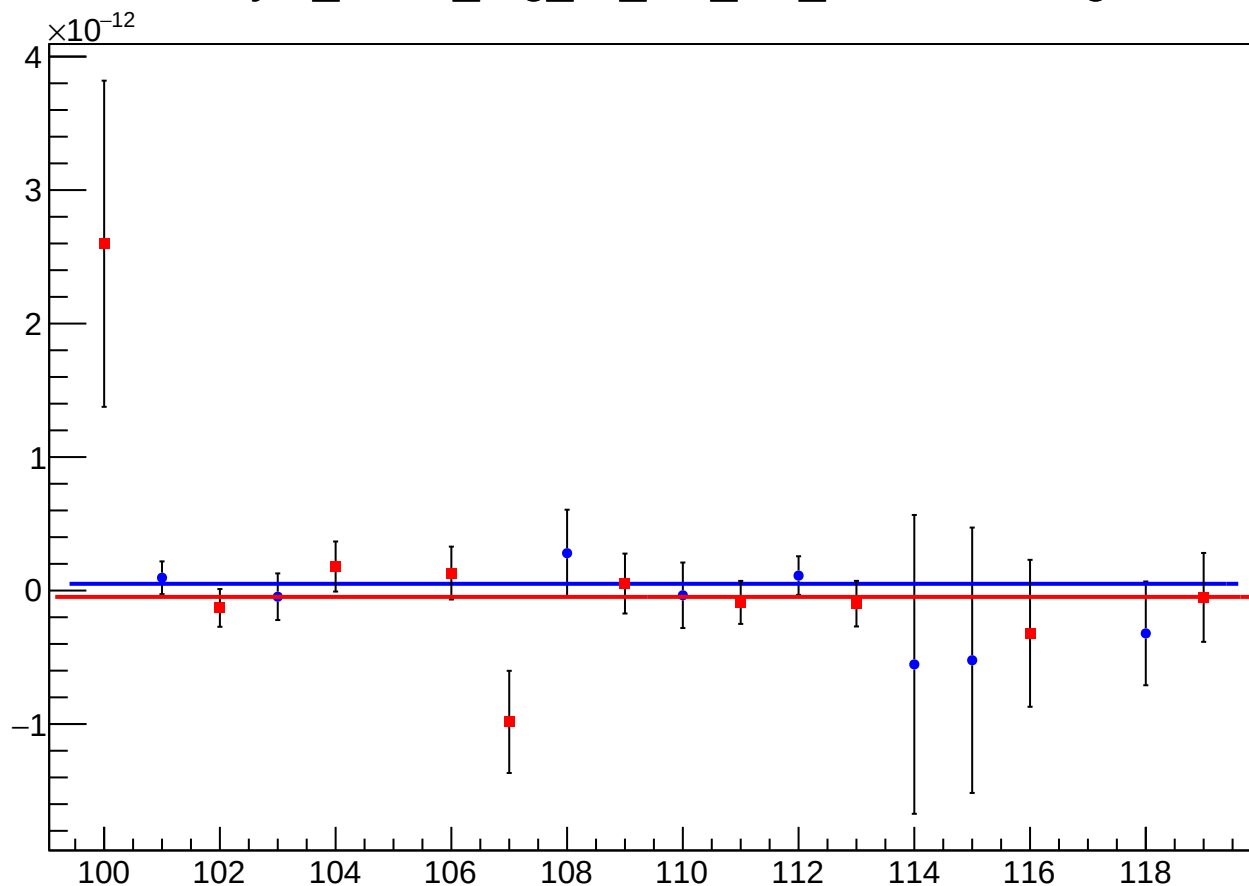
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2125.261 $\pm$ 0.566  $\chi^2$ /NDF: 704198.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam4\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.9/9

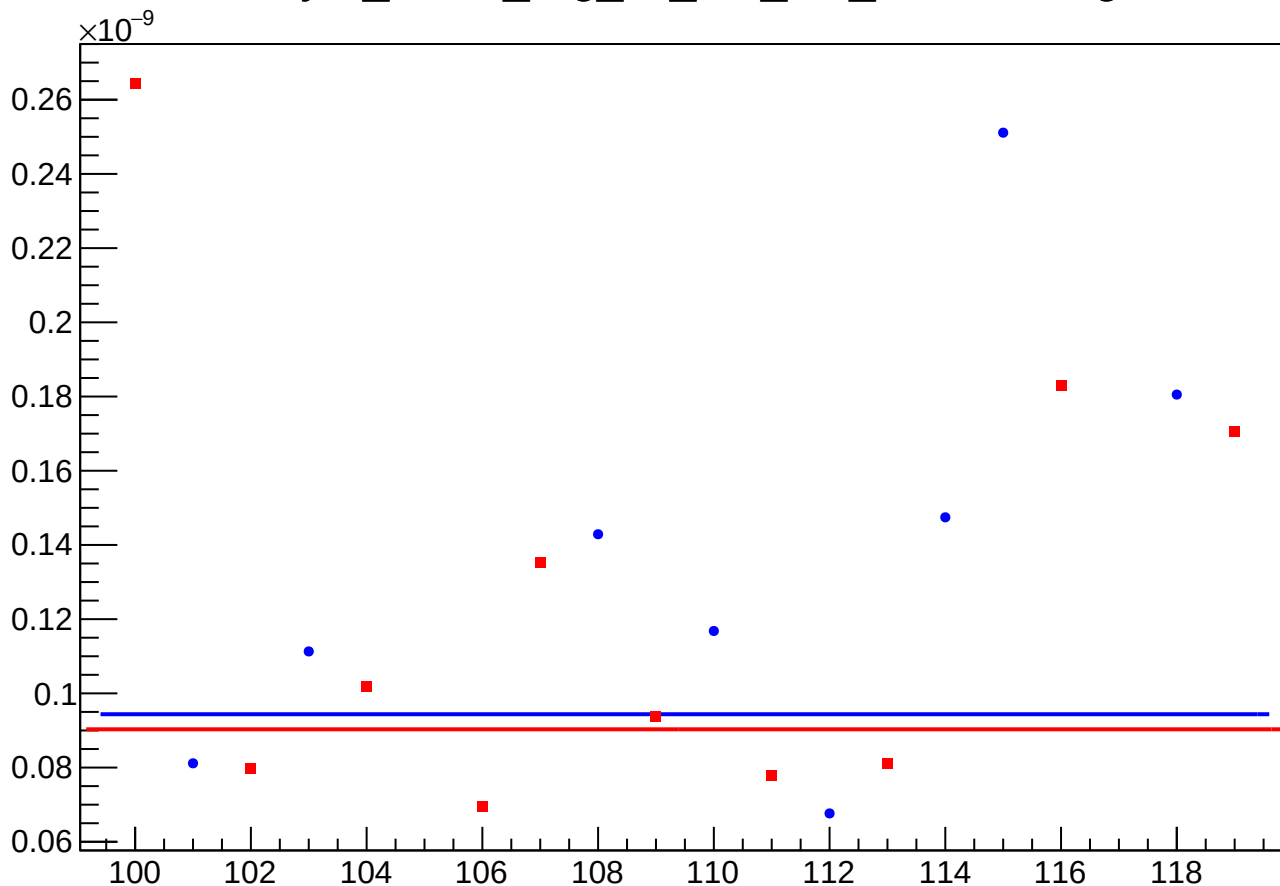
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.6/17

- 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  $\chi^2/\text{NDF}$ : 323935.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 299911.5/9

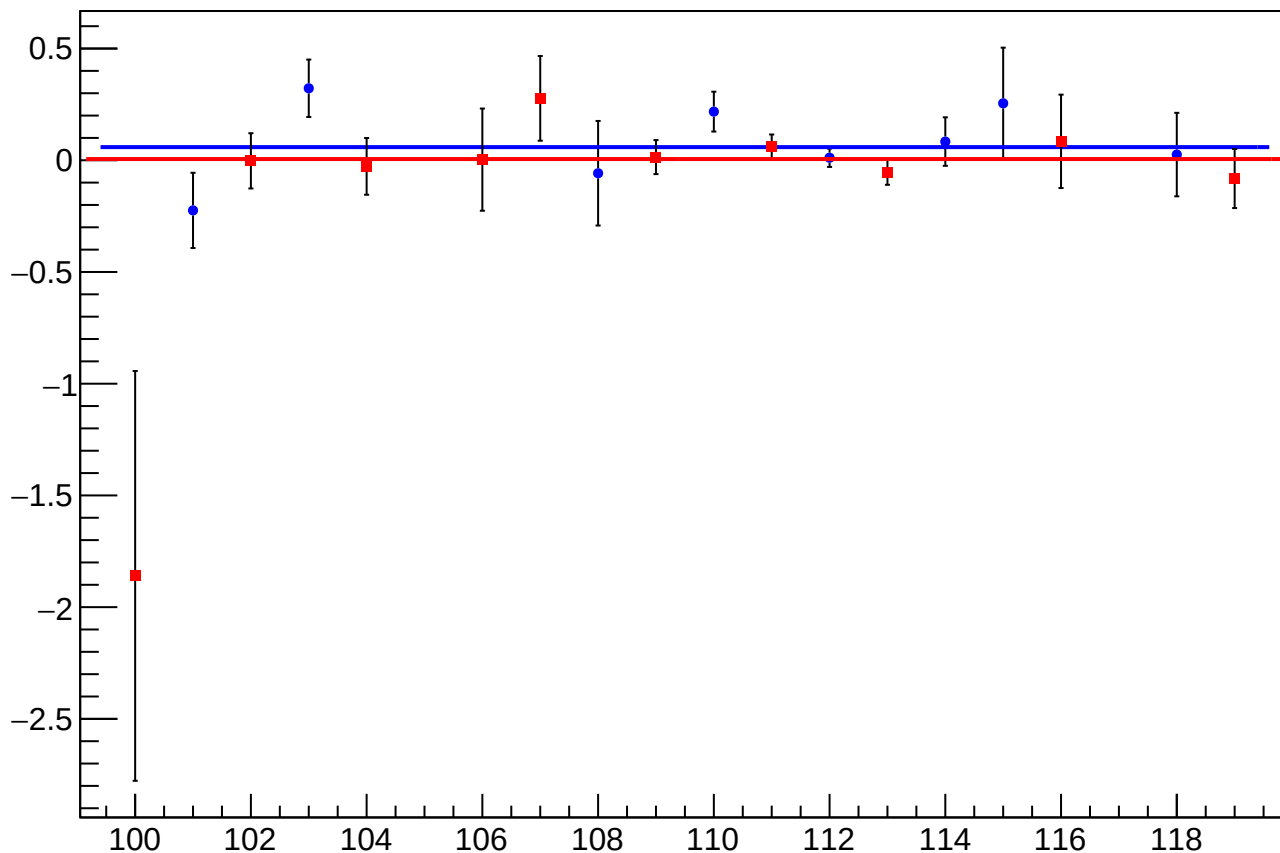
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 627107.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.059 $\pm$ 0.032  $\chi^2$ /NDF: 12.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.030  $\chi^2$ /NDF: 9.0/9

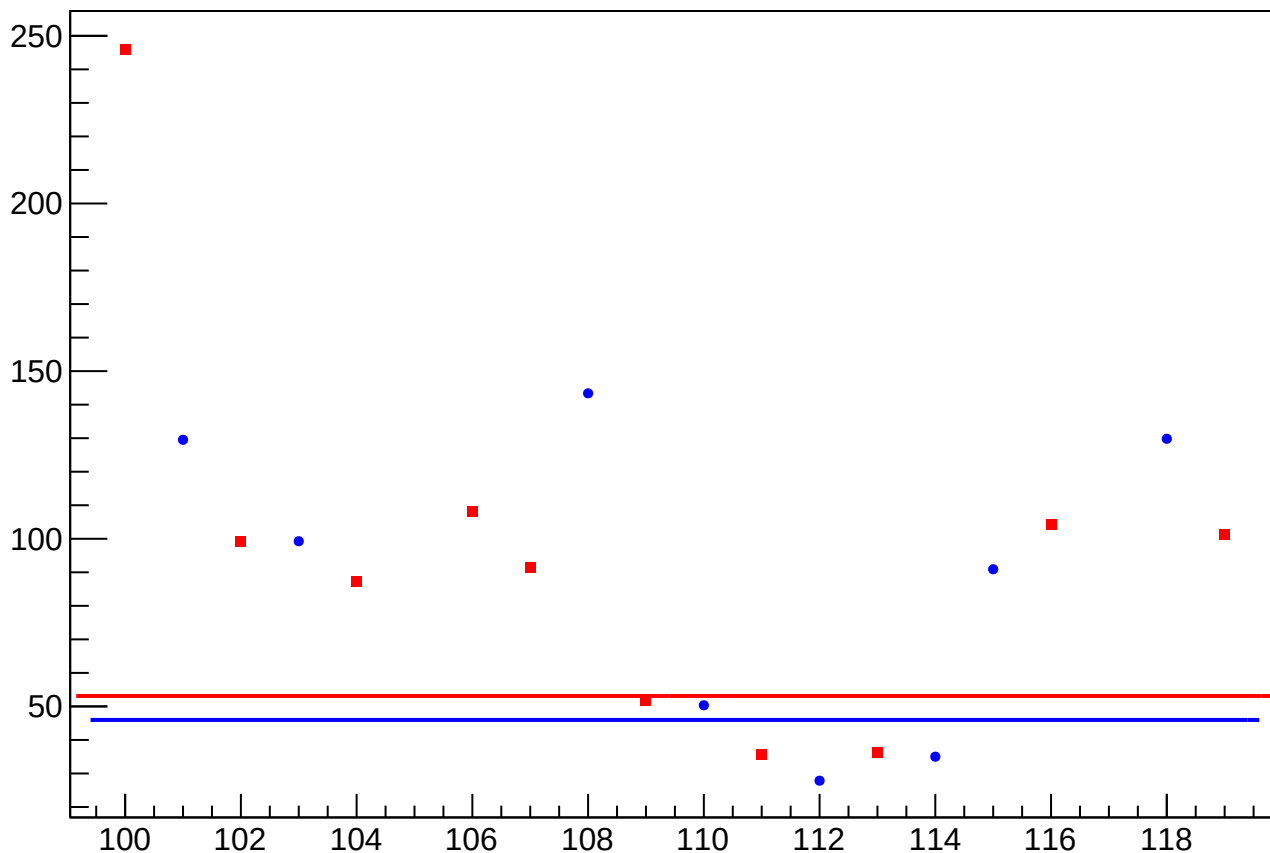
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.022  $\chi^2$ /NDF: 22.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 45.969+/-0.023  $\chi^2/\text{NDF}$ : 2064353.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.115+/-0.022  $\chi^2/\text{NDF}$ : 1482207.8/9

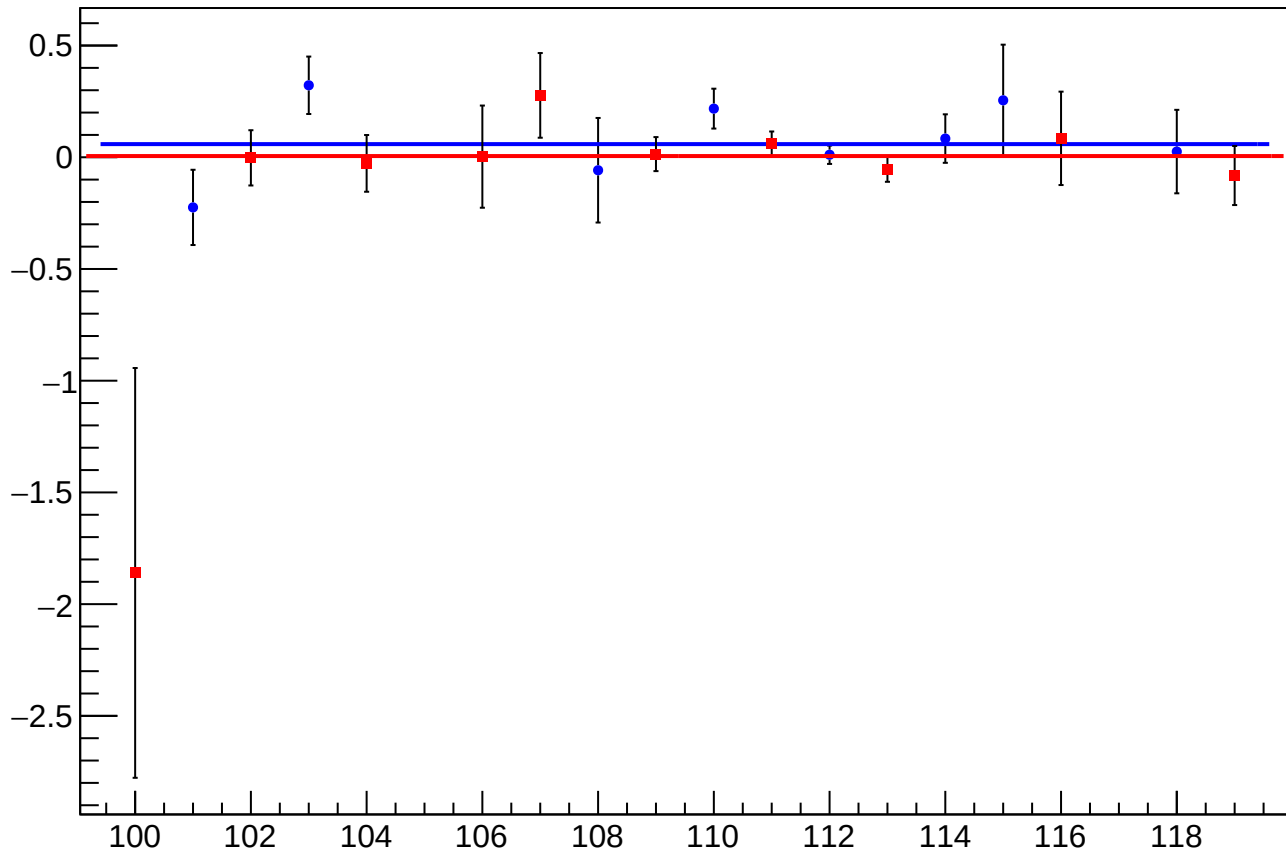
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.751+/-0.016  $\chi^2/\text{NDF}$ : 3598442.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.059 $\pm$ 0.032  $\chi^2$ /NDF: 12.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.030  $\chi^2$ /NDF: 9.0/9

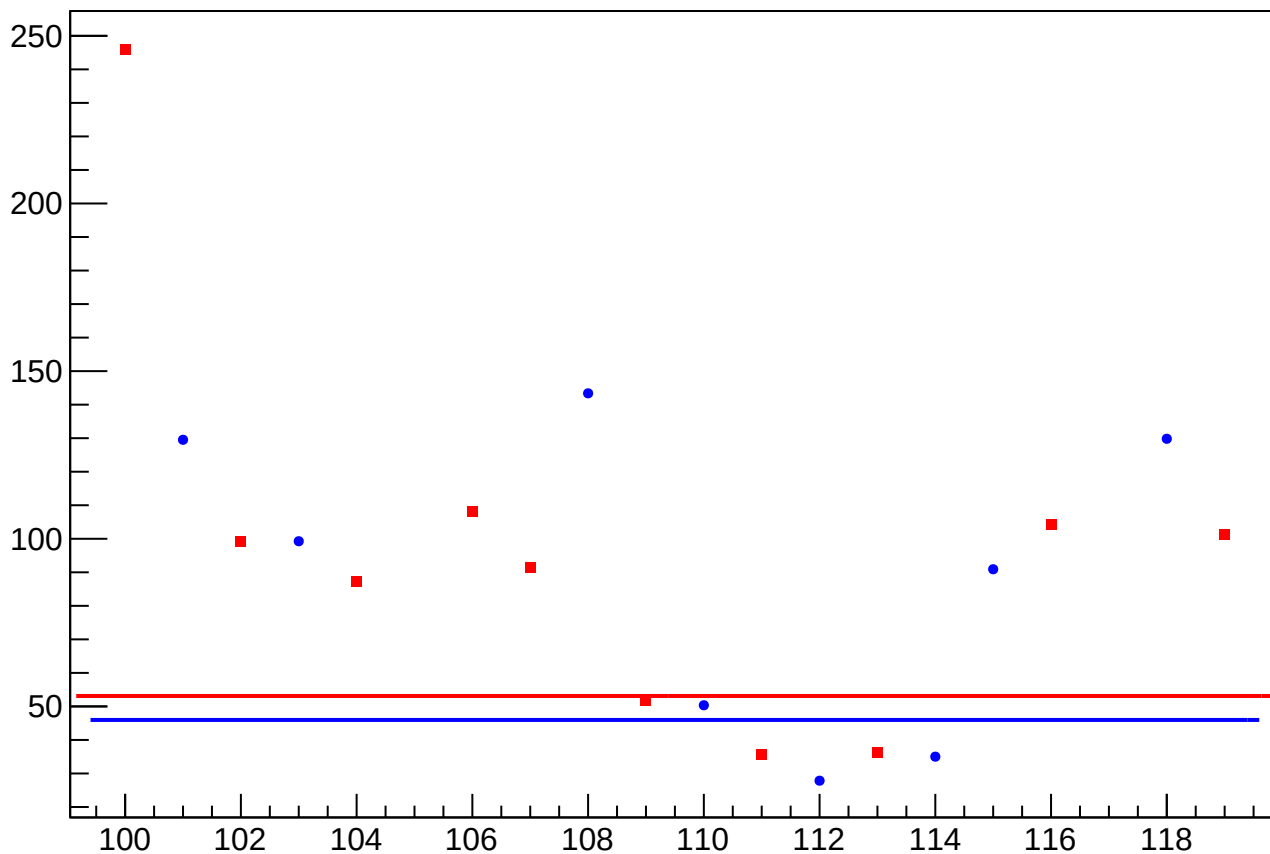
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.022  $\chi^2$ /NDF: 22.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 45.969+/-0.023  $\chi^2/\text{NDF}$ : 2064353.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.115+/-0.022  $\chi^2/\text{NDF}$ : 1482207.8/9

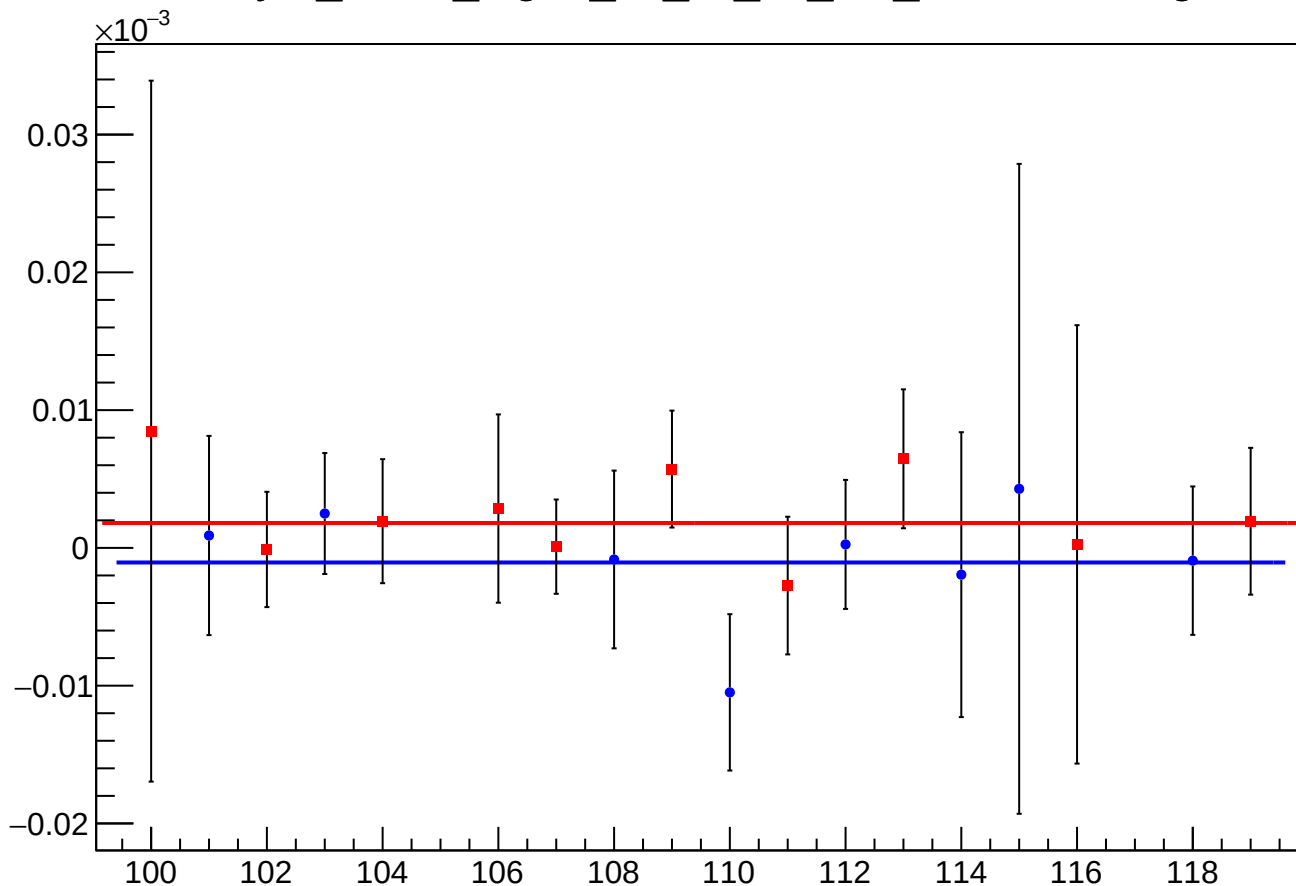
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.751+/-0.016  $\chi^2/\text{NDF}$ : 3598442.2/17

- 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  $\chi^2/\text{NDF}$ : 3.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 3.1/9

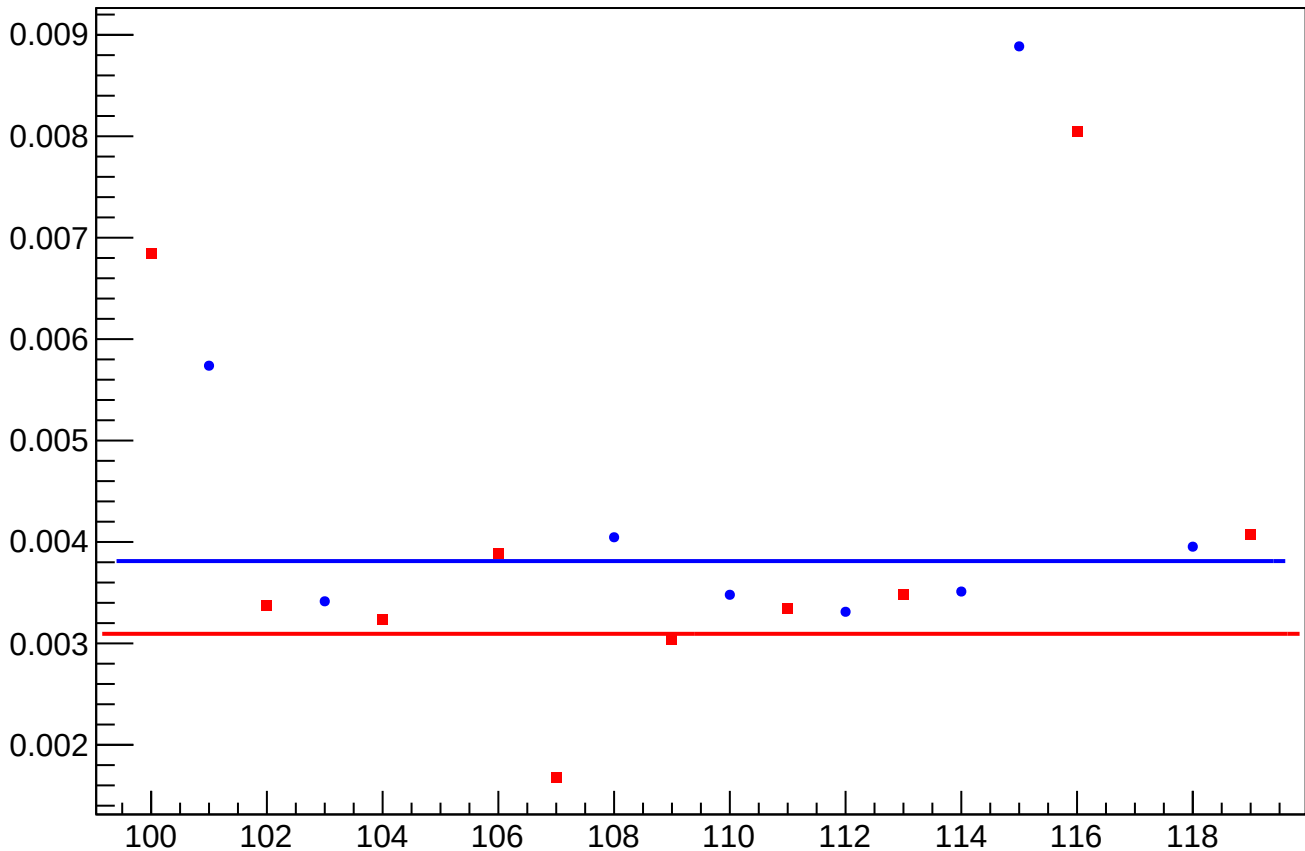
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 7.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 286303.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 701573.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

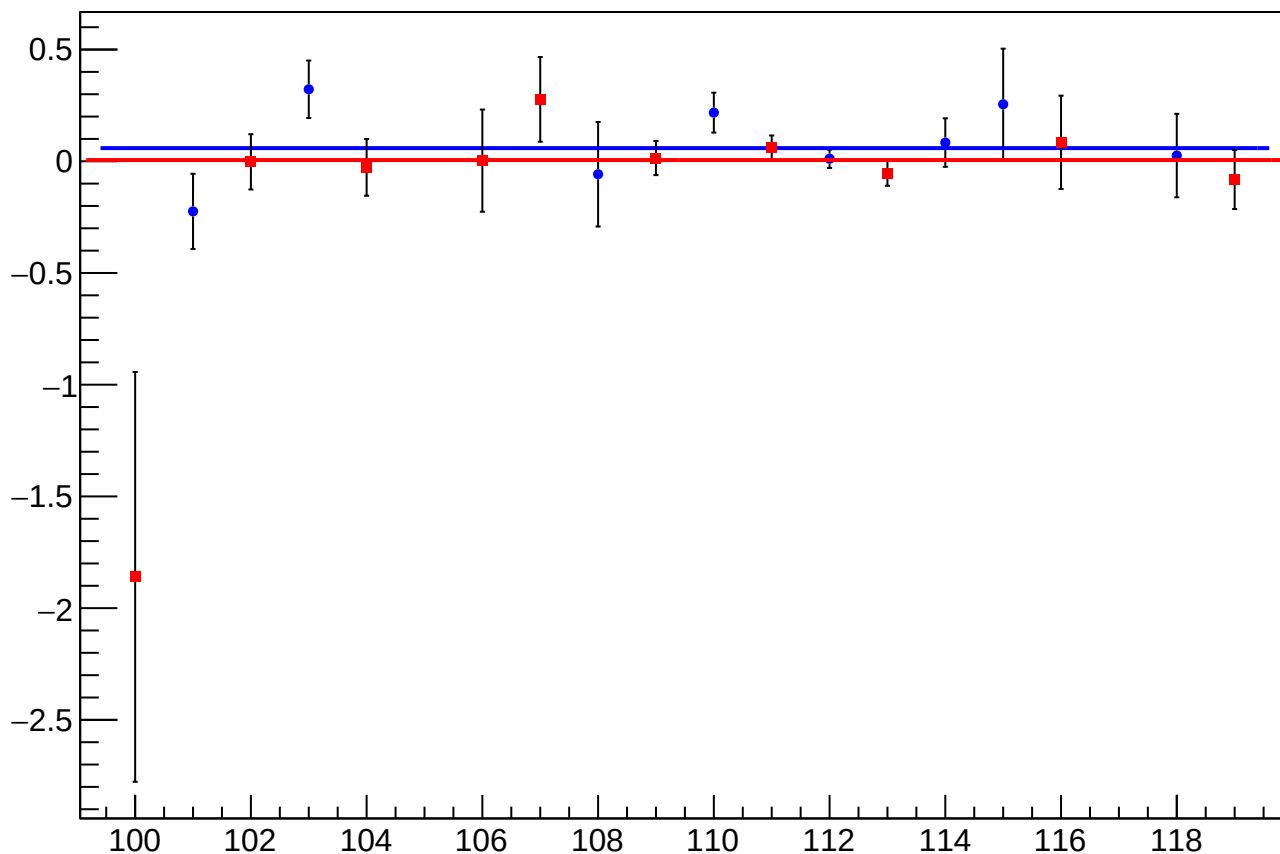
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1131322.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam4\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.059 $\pm$ 0.032  $\chi^2$ /NDF: 12.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.030  $\chi^2$ /NDF: 9.0/9

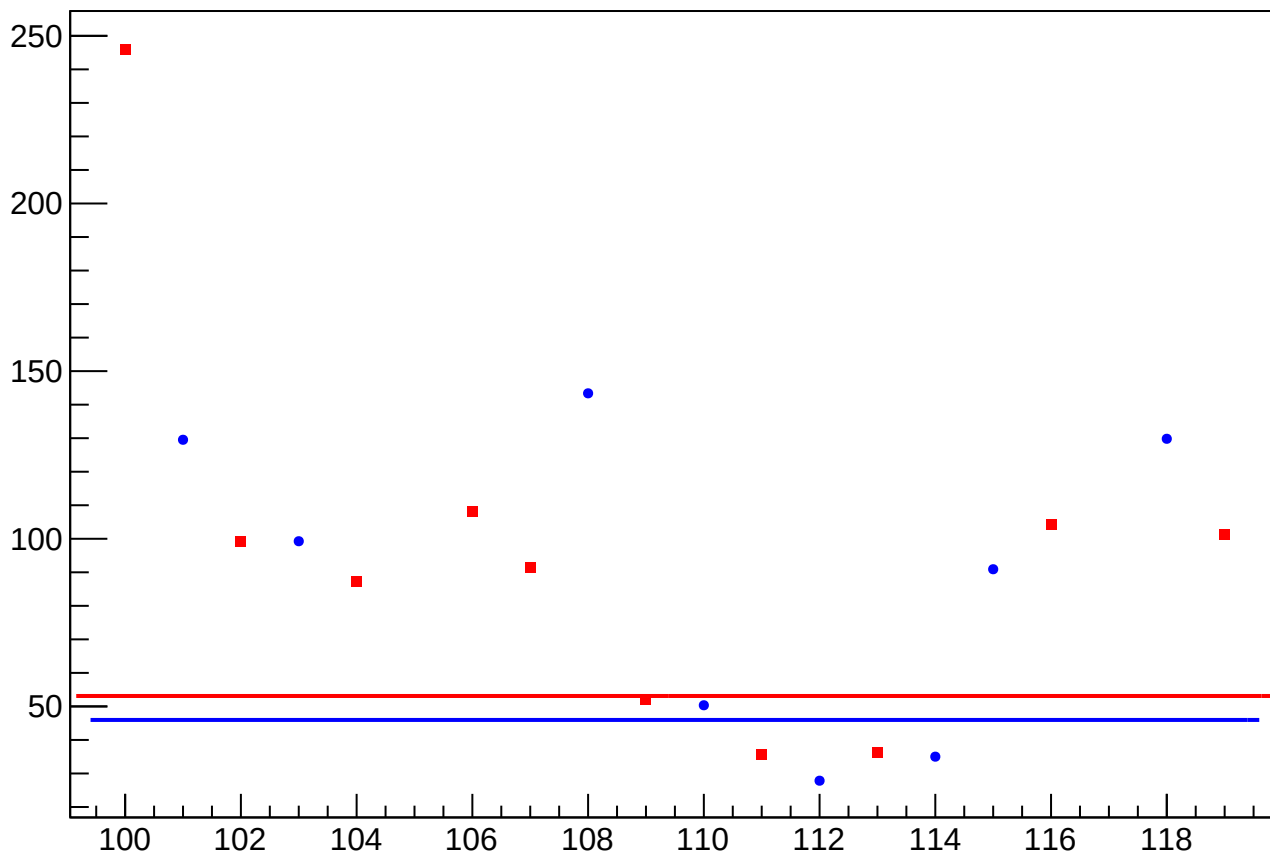
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.022  $\chi^2$ /NDF: 22.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 45.967+/-0.023  $\chi^2/\text{NDF}$ : 2064461.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.113+/-0.022  $\chi^2/\text{NDF}$ : 1482335.5/9

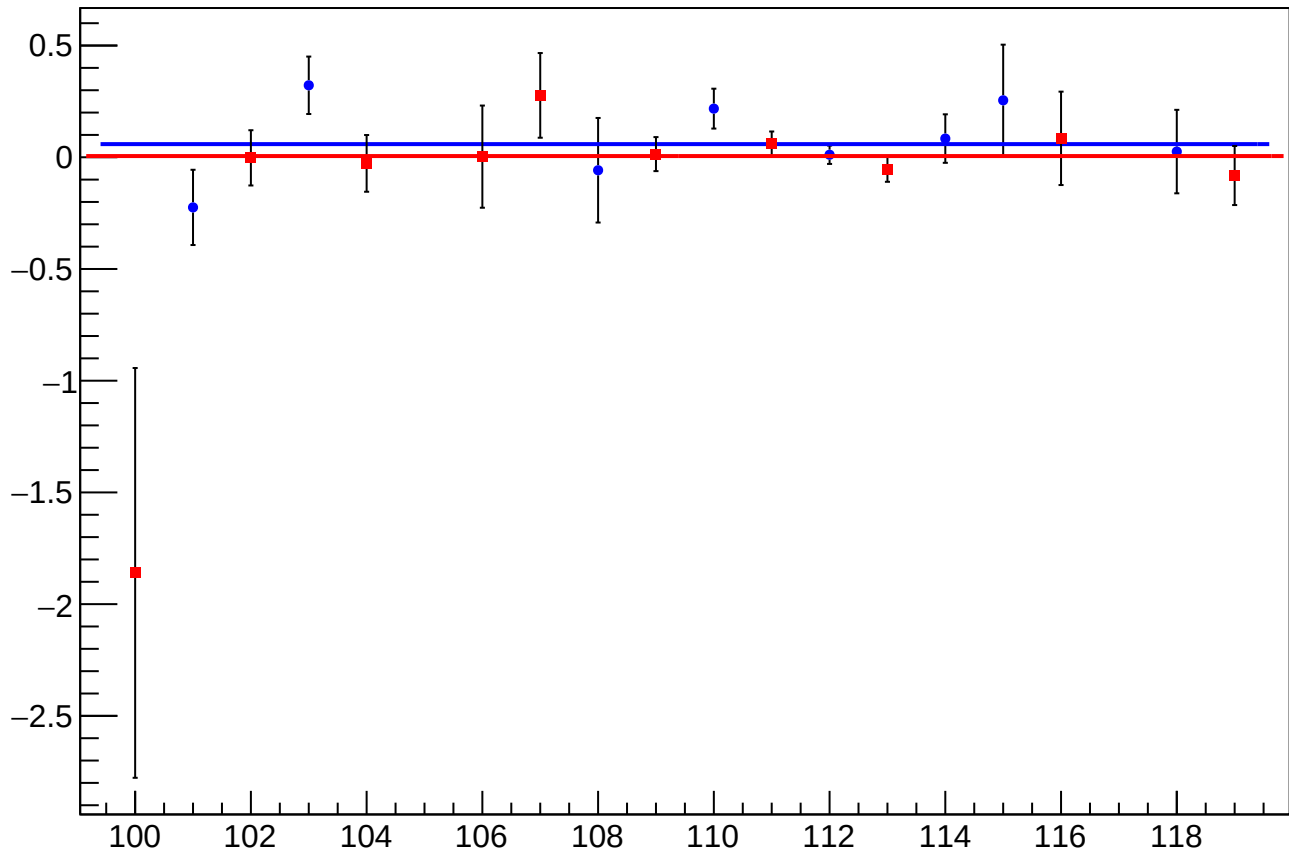
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.749+/-0.016  $\chi^2/\text{NDF}$ : 3598684.1/17

- 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: 0.059 $\pm$ 0.032  $\chi^2$ /NDF: 12.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.030  $\chi^2$ /NDF: 9.0/9

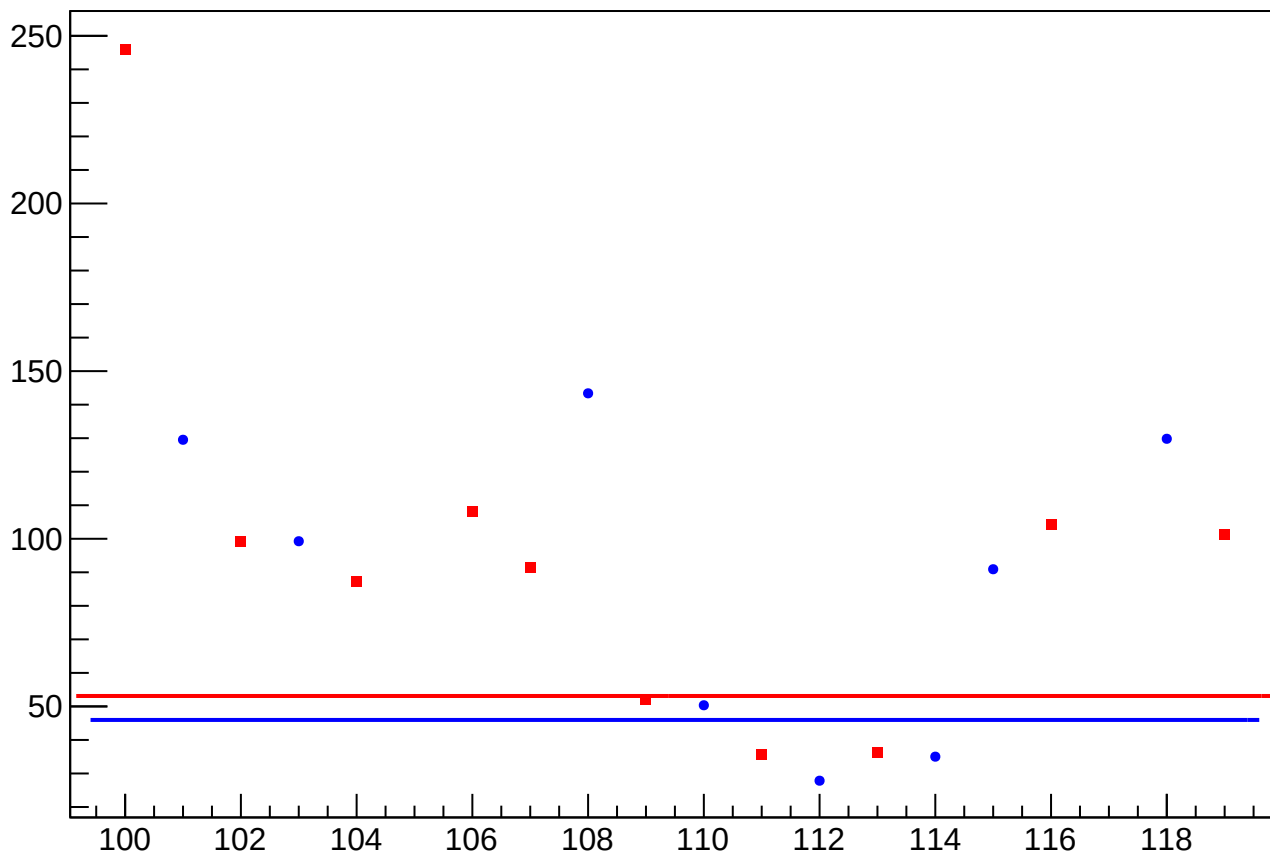
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.022  $\chi^2$ /NDF: 22.9/17

- 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: 45.967+/-0.023  $\chi^2/\text{NDF}$ : 2064461.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.113+/-0.022  $\chi^2/\text{NDF}$ : 1482335.5/9

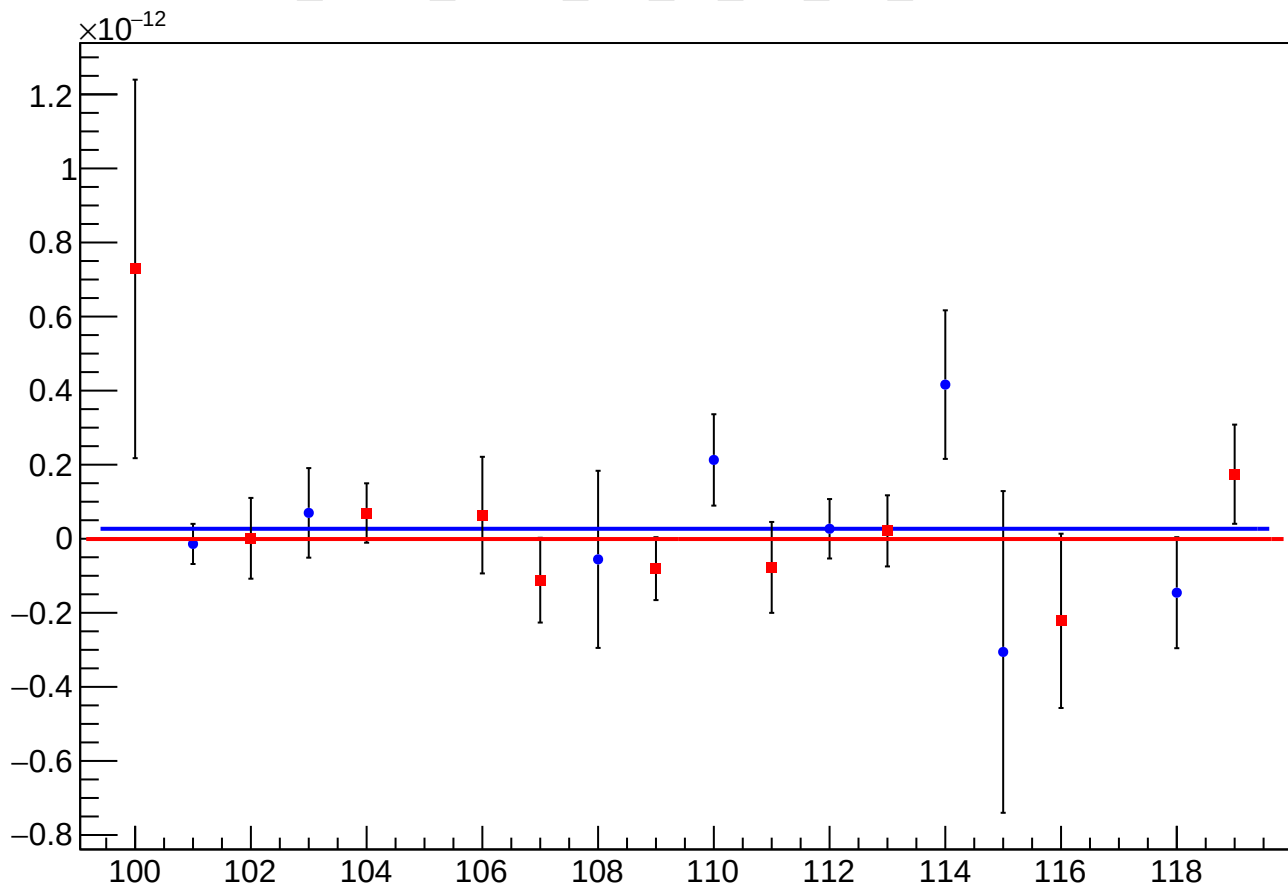
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.749+/-0.016  $\chi^2/\text{NDF}$ : 3598684.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 8.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 7.8/9

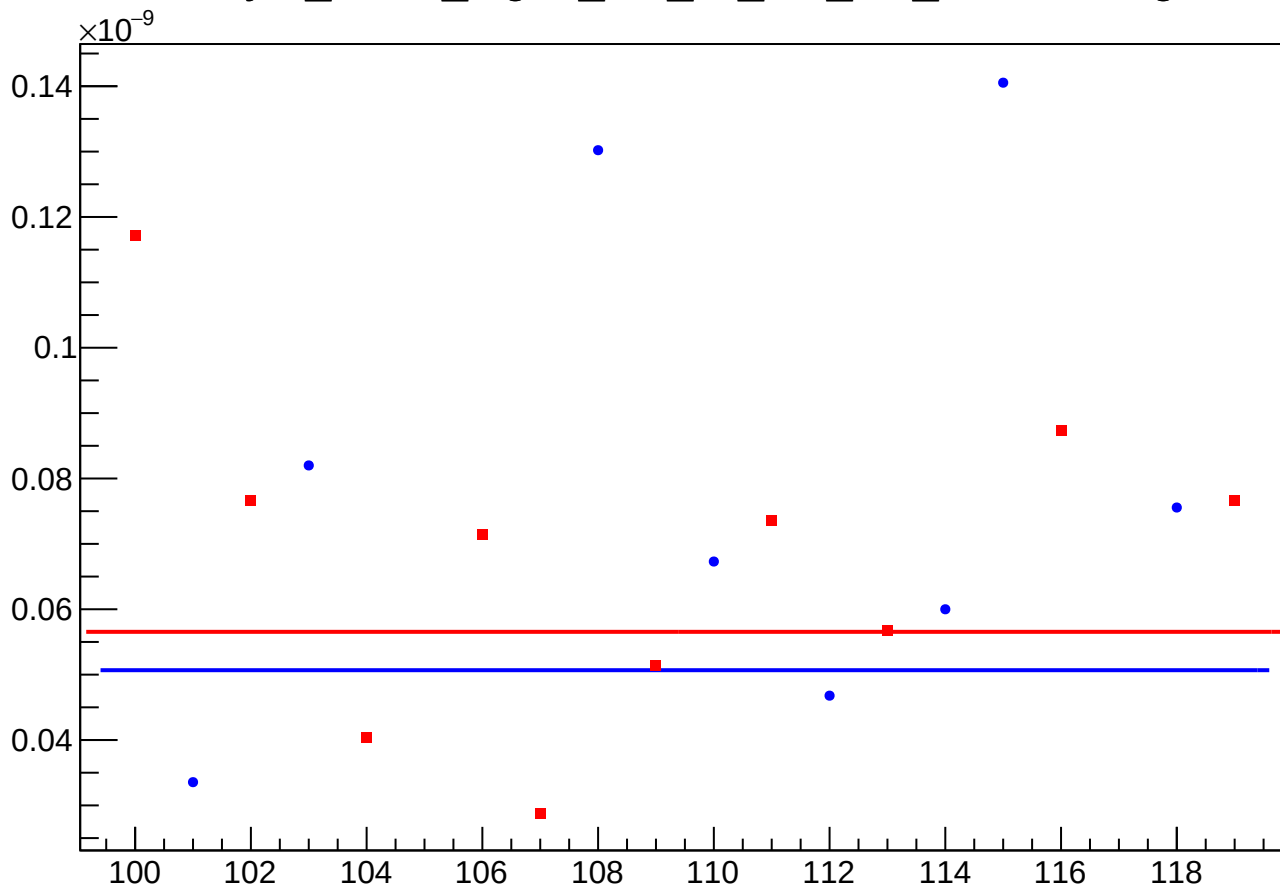
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 16.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam4\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 741170.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 437241.3/9

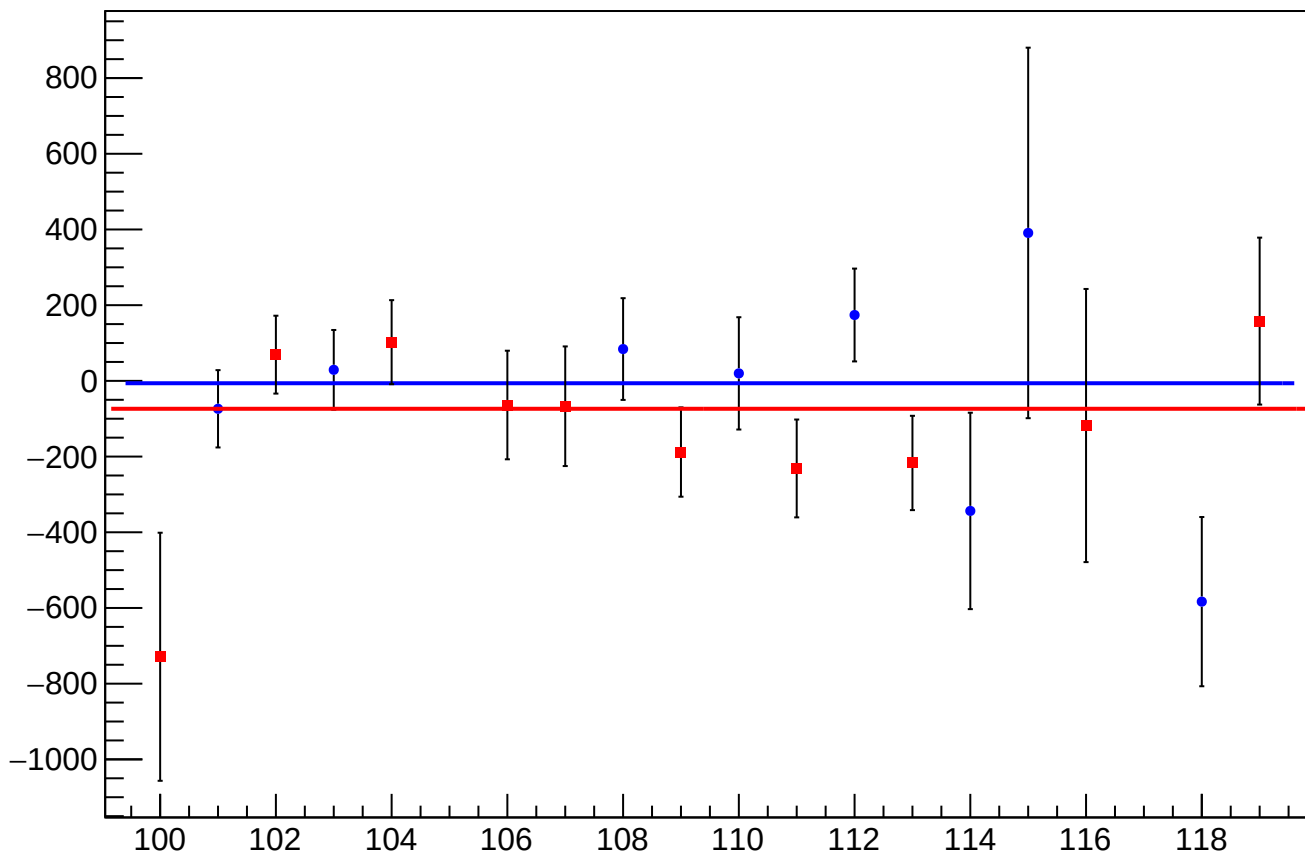
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1203704.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_mean vs Slug



Right In: -6.249+/-50.482  $\chi^2/\text{NDF}$ : 12.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -73.727+/-44.816  $\chi^2/\text{NDF}$ : 13.3/9

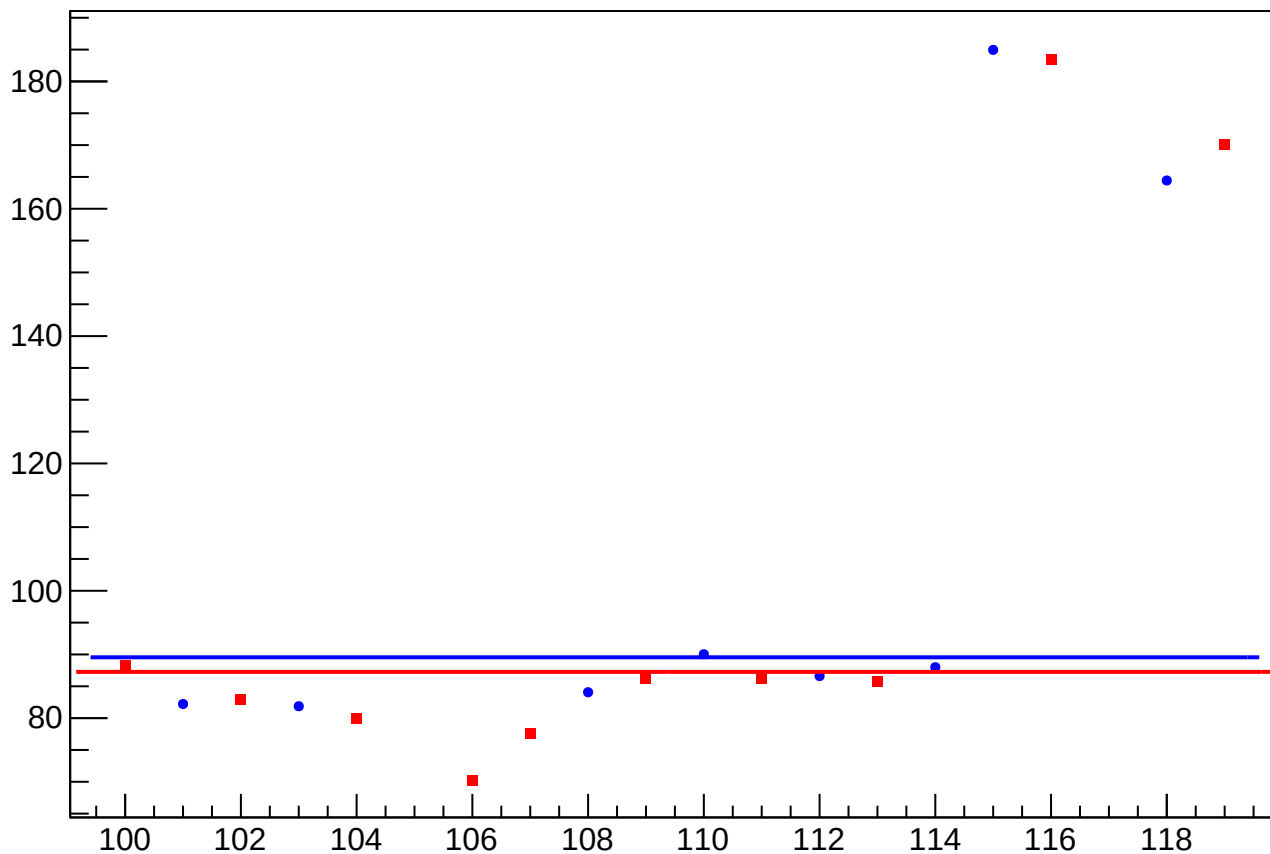
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -43.985+/-33.515  $\chi^2/\text{NDF}$ : 26.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_rms vs Slug



Right In: 89.551+/-0.036  $\chi^2/\text{NDF}$ : 325966.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 87.265+/-0.032  $\chi^2/\text{NDF}$ : 473309.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

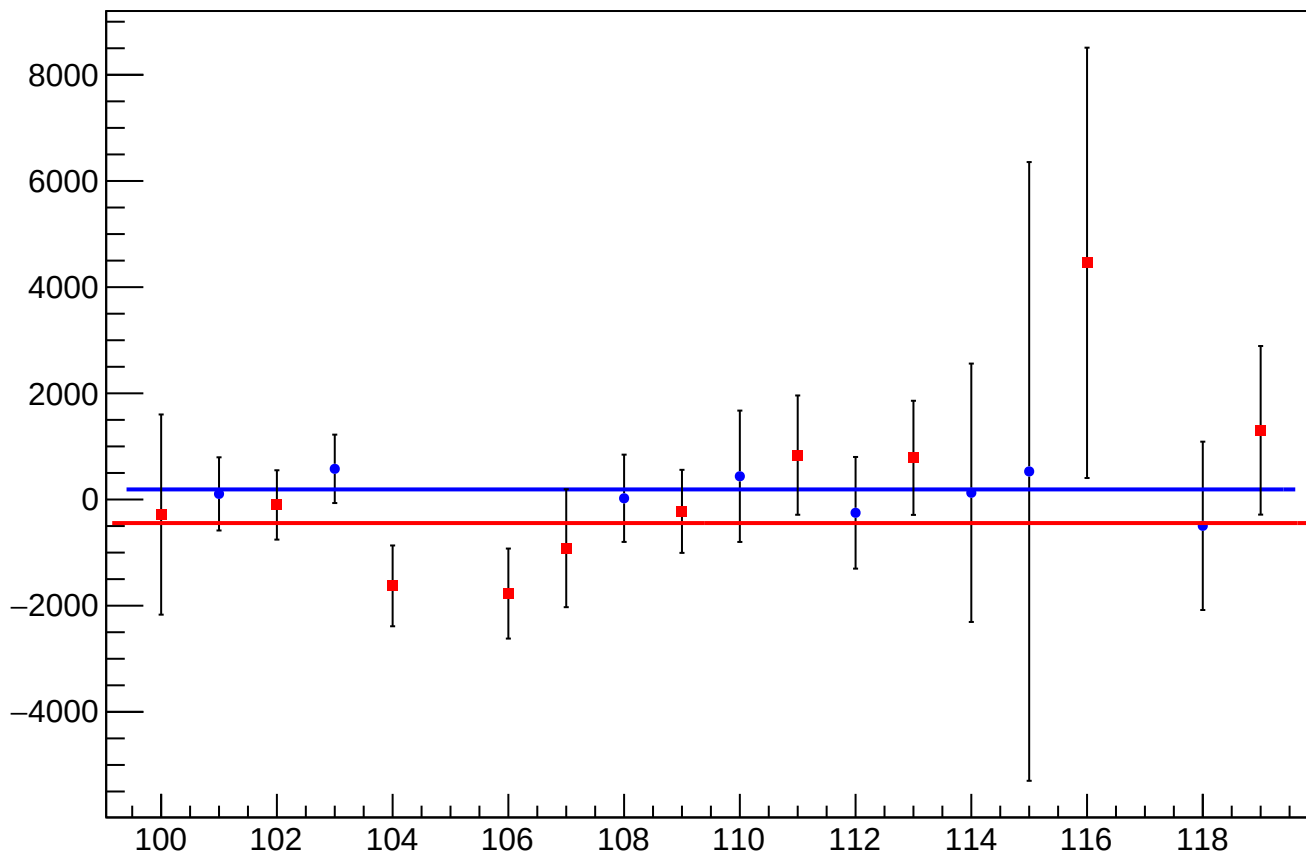
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 88.273+/-0.024  $\chi^2/\text{NDF}$ : 801569.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam5\_reg\_correction\_mean vs Slug



Right In: 189.945 $\pm$ 350.334  $\chi^2$ /NDF: 0.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -443.677 $\pm$ 311.538  $\chi^2$ /NDF: 10.7/9

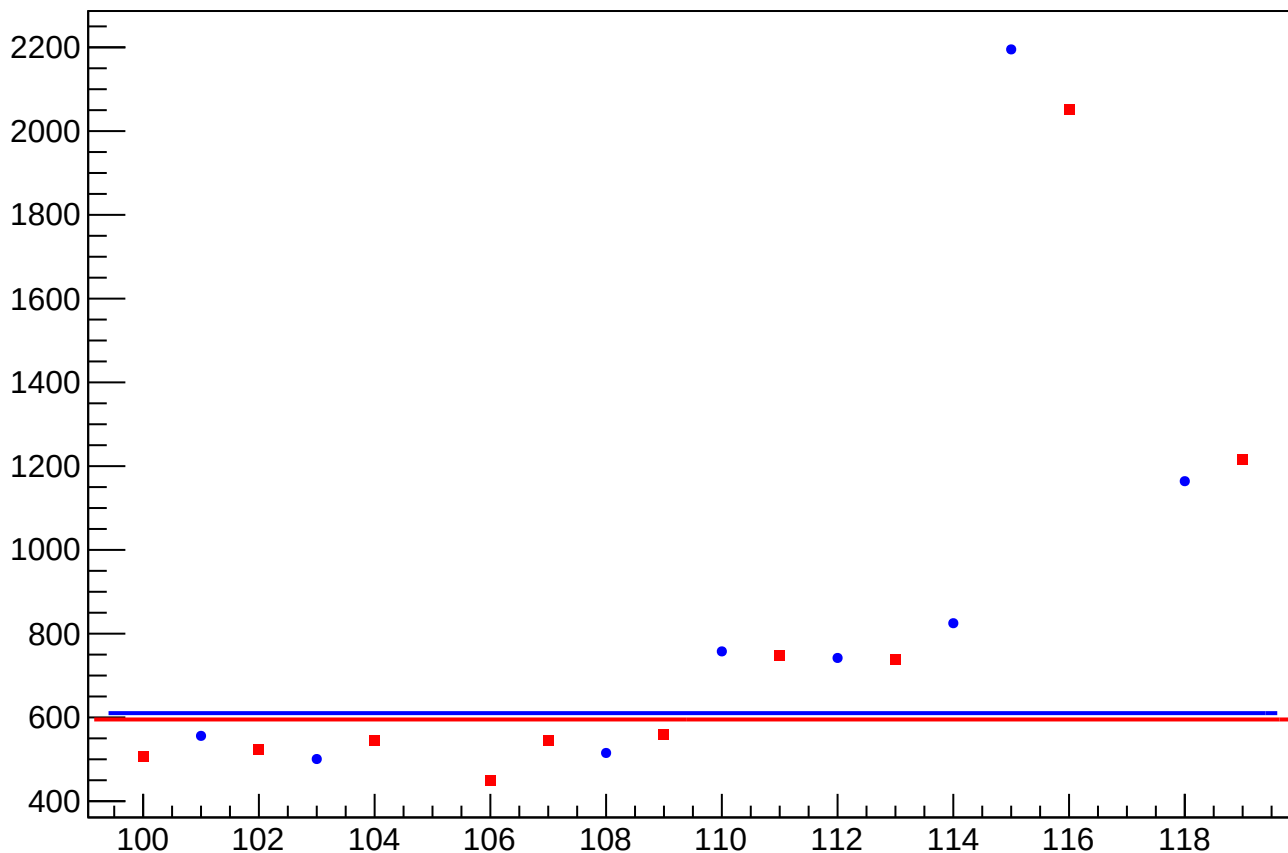
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -163.879 $\pm$ 232.804  $\chi^2$ /NDF: 13.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_reg\_correction\_rms vs Slug



Right In: 610.234 $\pm$ 0.248  $\chi^2$ /NDF: 564382.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 595.094 $\pm$ 0.220  $\chi^2$ /NDF: 740412.4/9

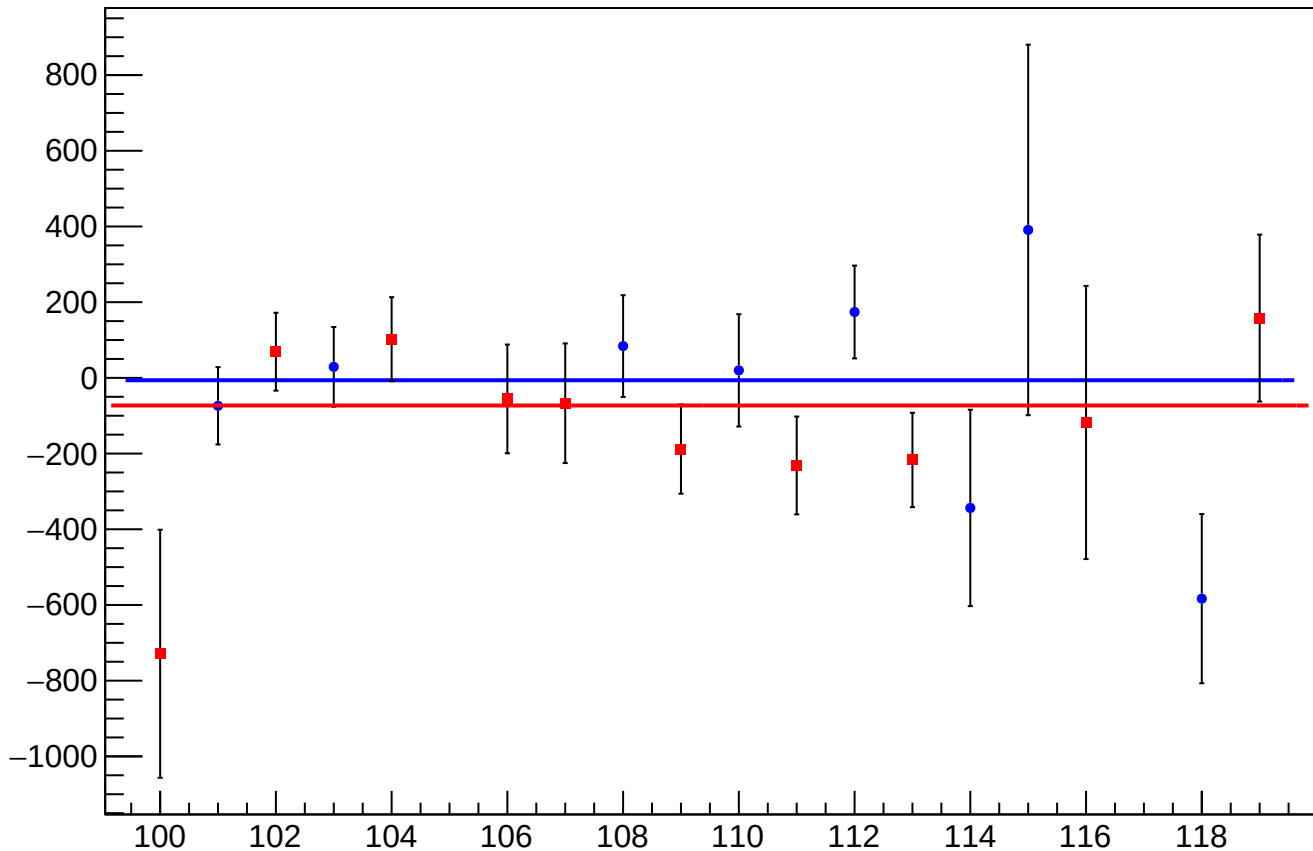
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 601.779 $\pm$ 0.165  $\chi^2$ /NDF: 1306880.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam5\_mean vs Slug



Right In: -6.271+/-50.482  $\chi^2/\text{NDF}$ : 12.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -72.973+/-44.821  $\chi^2/\text{NDF}$ : 13.3/9

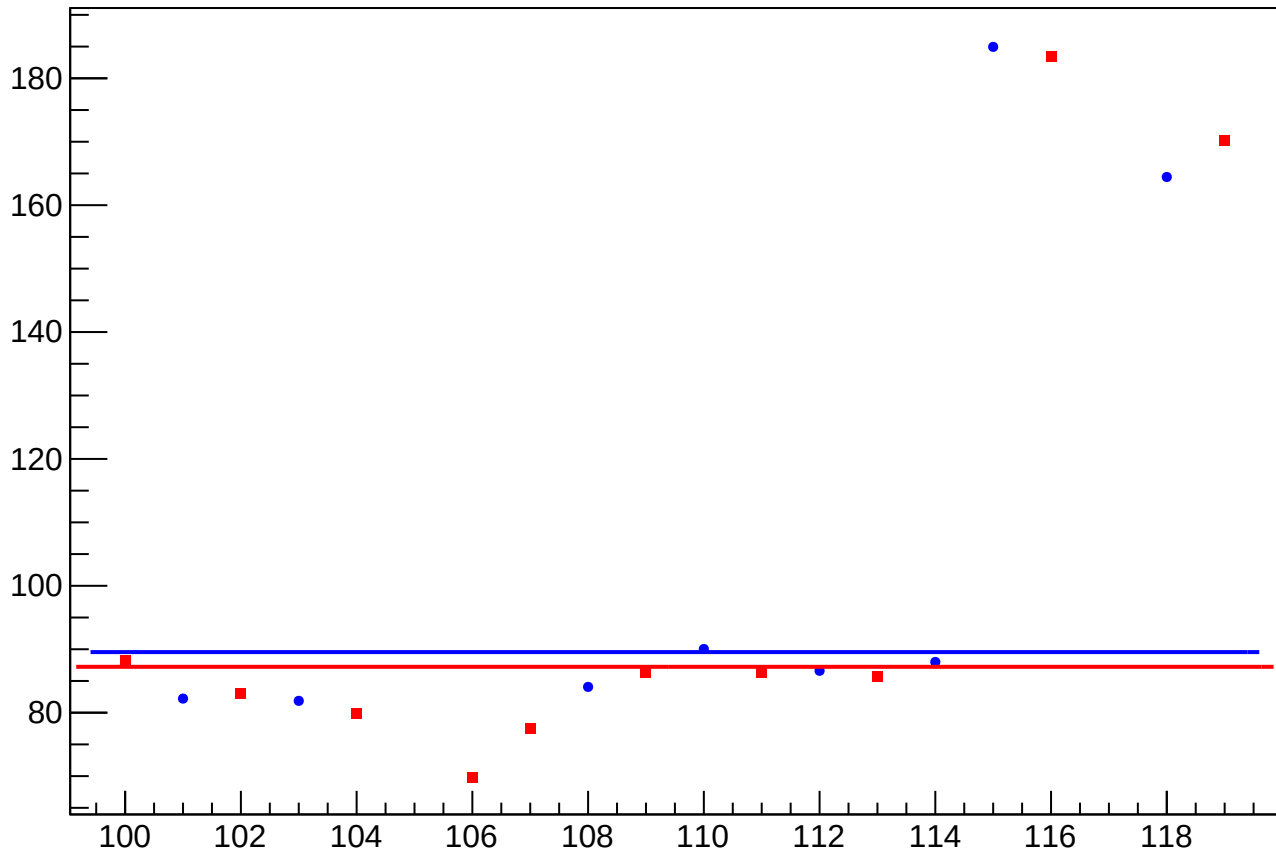
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -43.570+/-33.517  $\chi^2/\text{NDF}$ : 26.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam5\_rms vs Slug



Right In: 89.551+/-0.036  $\chi^2/\text{NDF}$ : 325966.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 87.229+/-0.032  $\chi^2/\text{NDF}$ : 474652.8/9

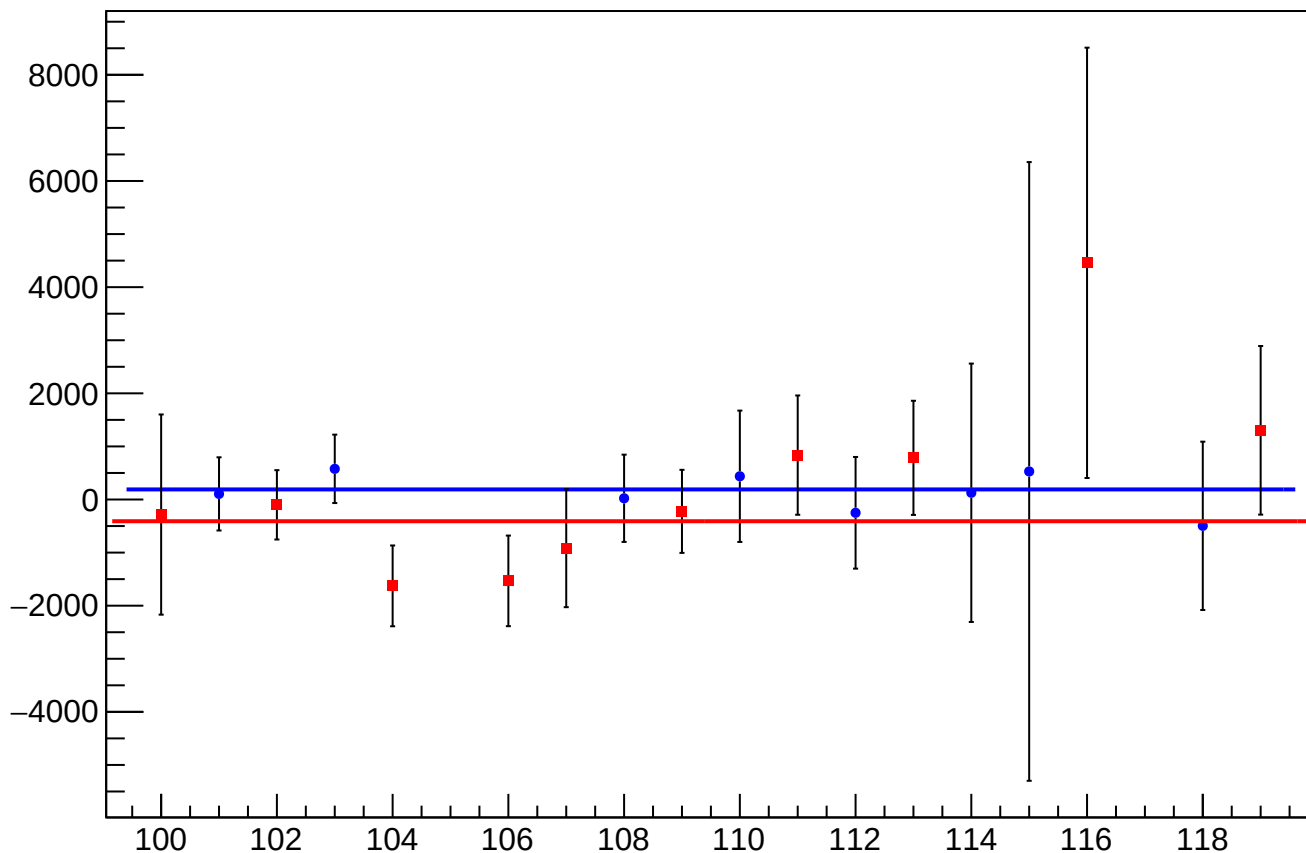
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 88.253+/-0.024  $\chi^2/\text{NDF}$ : 802985.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_cor\_correction\_mean vs Slug



Right In: 189.946 $\pm$ 350.334  $\chi^2$ /NDF: 0.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -409.042 $\pm$ 311.812  $\chi^2$ /NDF: 9.9/9

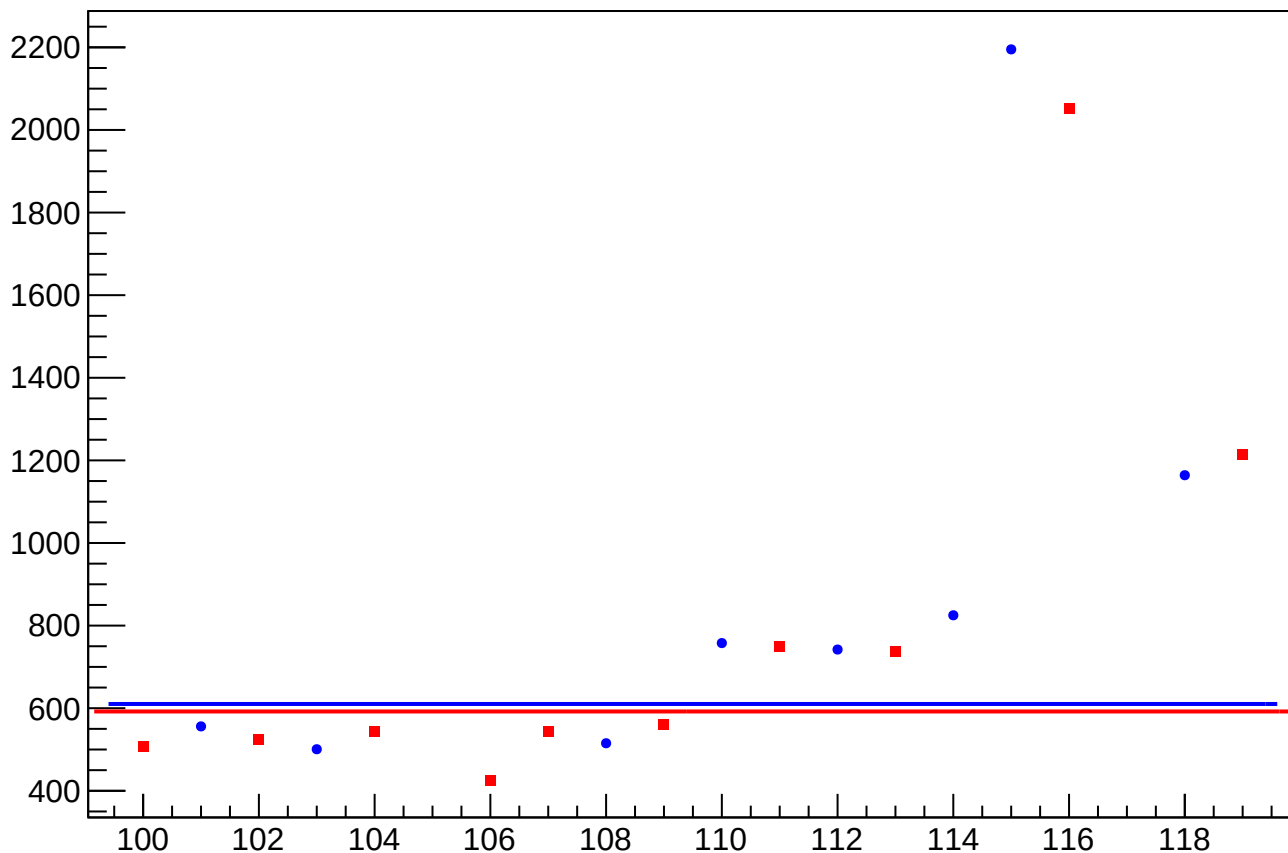
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -144.277 $\pm$ 232.918  $\chi^2$ /NDF: 12.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_cor\_correction\_rms vs Slug



Right In: 610.233+/-0.248  $\chi^2/\text{NDF}$ : 564383.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 592.094+/-0.220  $\chi^2/\text{NDF}$ : 760646.3/9

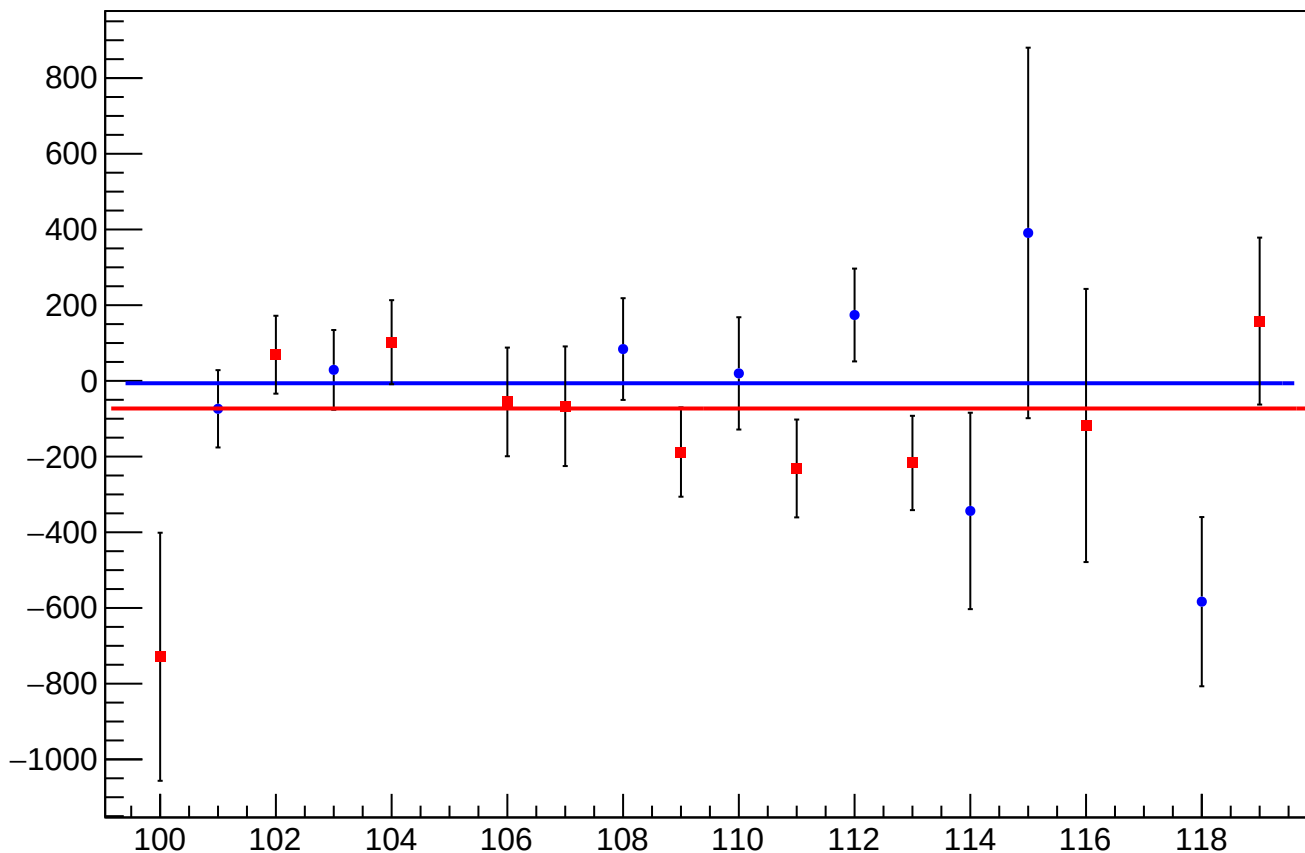
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 600.112+/-0.165  $\chi^2/\text{NDF}$ : 1328021.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam5\_mean vs Slug



Right In: -6.271+/-50.482  $\chi^2/\text{NDF}$ : 12.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -72.973+/-44.821  $\chi^2/\text{NDF}$ : 13.3/9

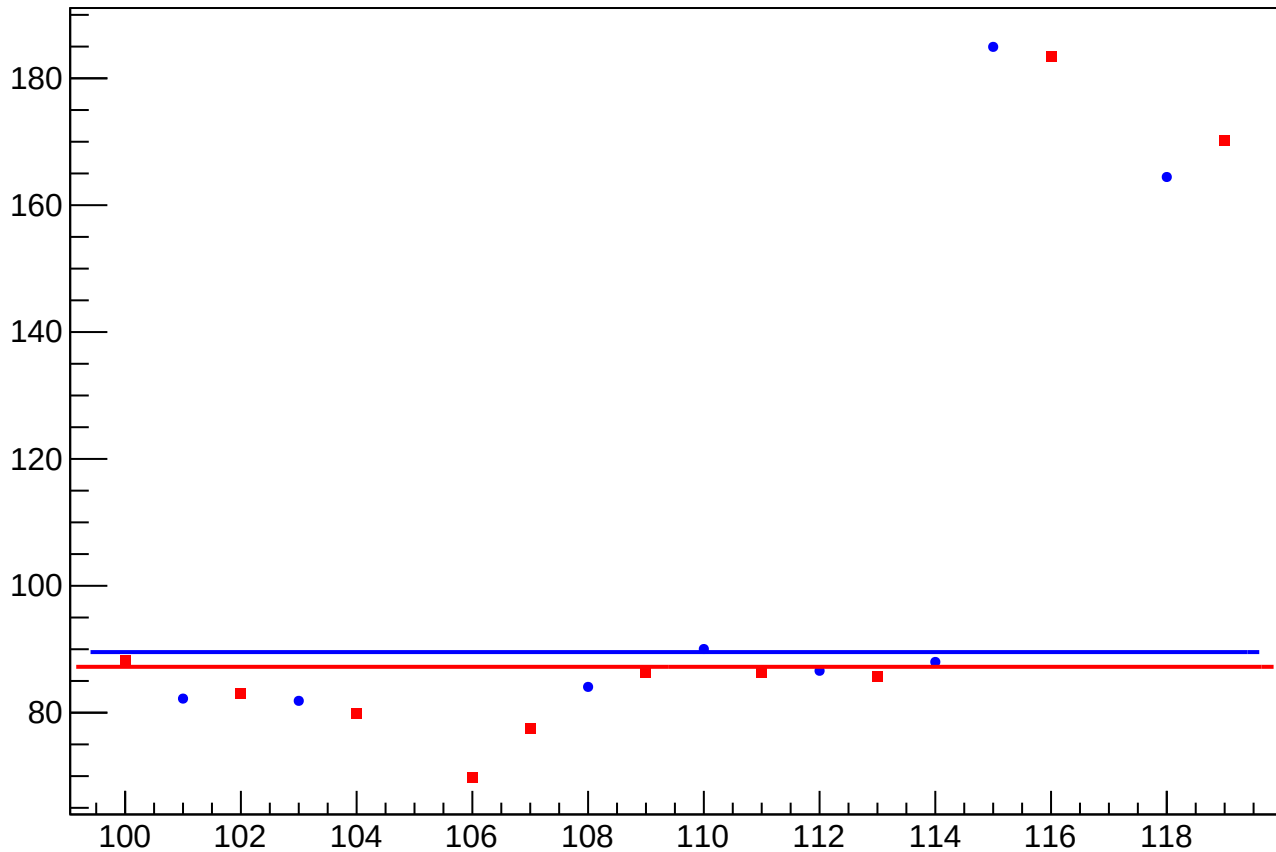
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -43.570+/-33.517  $\chi^2/\text{NDF}$ : 26.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam5\_rms vs Slug



Right In: 89.551+/-0.036  $\chi^2/\text{NDF}$ : 325966.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 87.229+/-0.032  $\chi^2/\text{NDF}$ : 474652.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

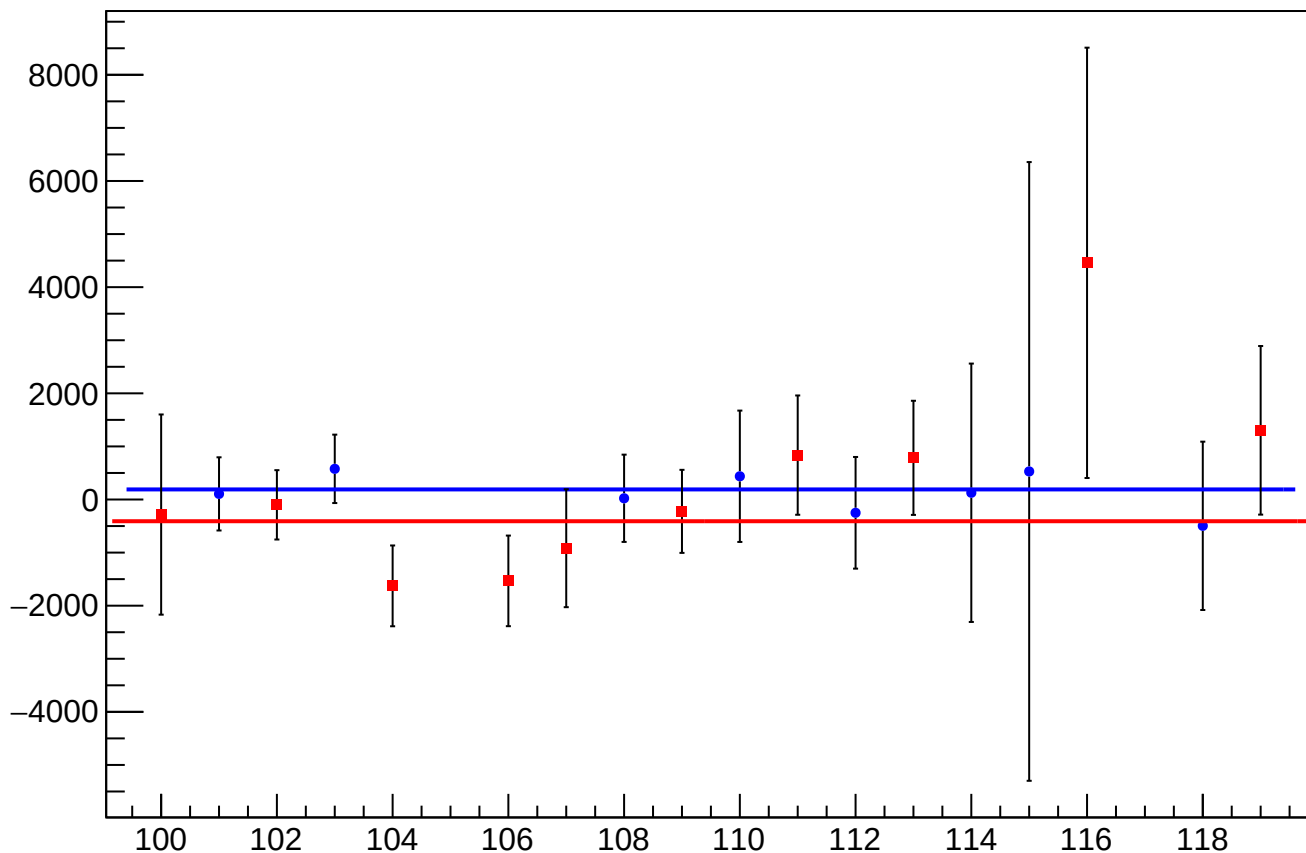
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 88.253+/-0.024  $\chi^2/\text{NDF}$ : 802985.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam5\_eigen\_cor\_correction\_mean vs Slug



Right In: 189.946+/-350.334  $\chi^2/\text{NDF}$ : 0.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -409.042+/-311.812  $\chi^2/\text{NDF}$ : 9.9/9

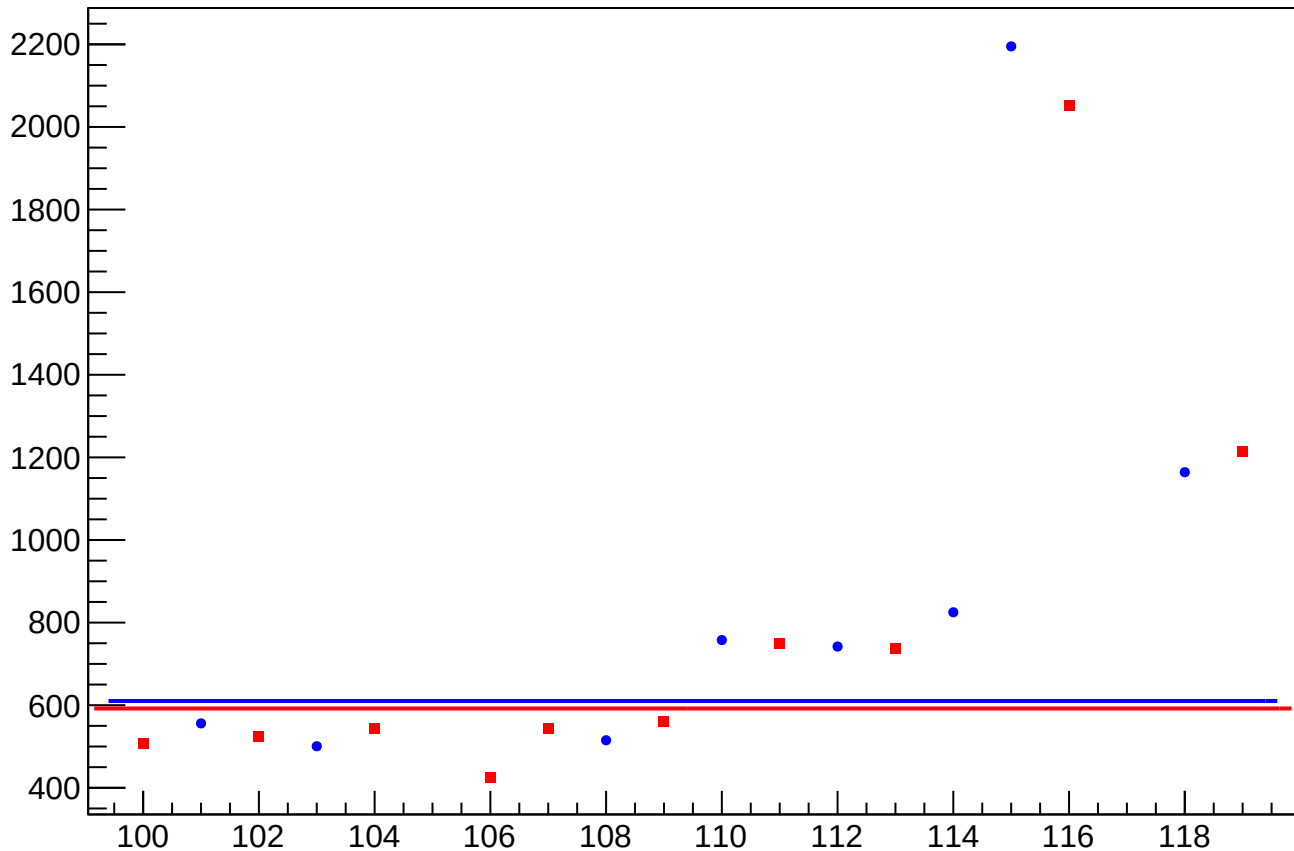
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -144.277+/-232.918  $\chi^2/\text{NDF}$ : 12.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_eigen\_cor\_correction\_rms vs Slug



Right In: 610.233+/-0.248  $\chi^2/\text{NDF}$ : 564383.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 592.094+/-0.220  $\chi^2/\text{NDF}$ : 760646.3/9

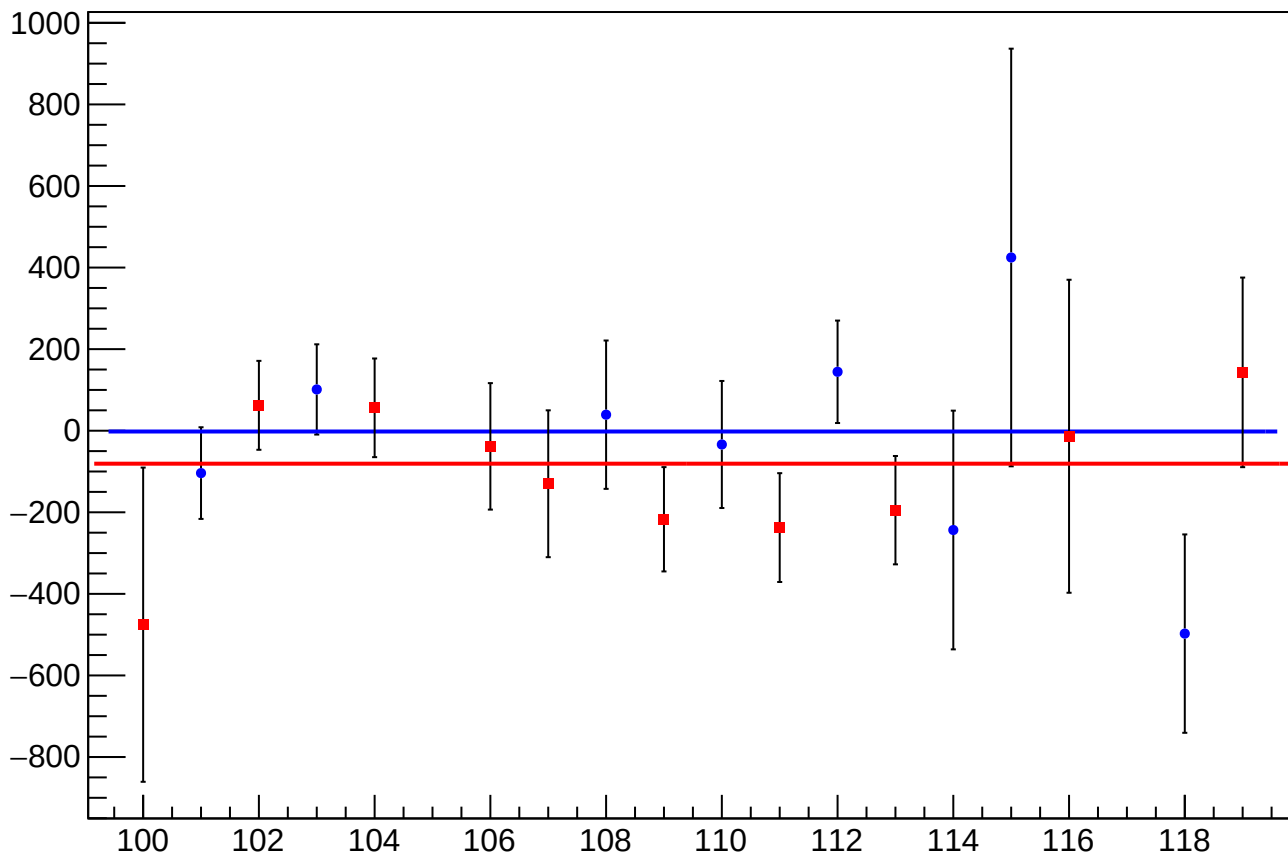
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 600.112+/-0.165  $\chi^2/\text{NDF}$ : 1328021.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam5\_mean vs Slug



Right In:  $-1.929 \pm 55.201$   $\chi^2/\text{NDF}$ : 8.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-80.839 \pm 48.167$   $\chi^2/\text{NDF}$ : 8.4/9

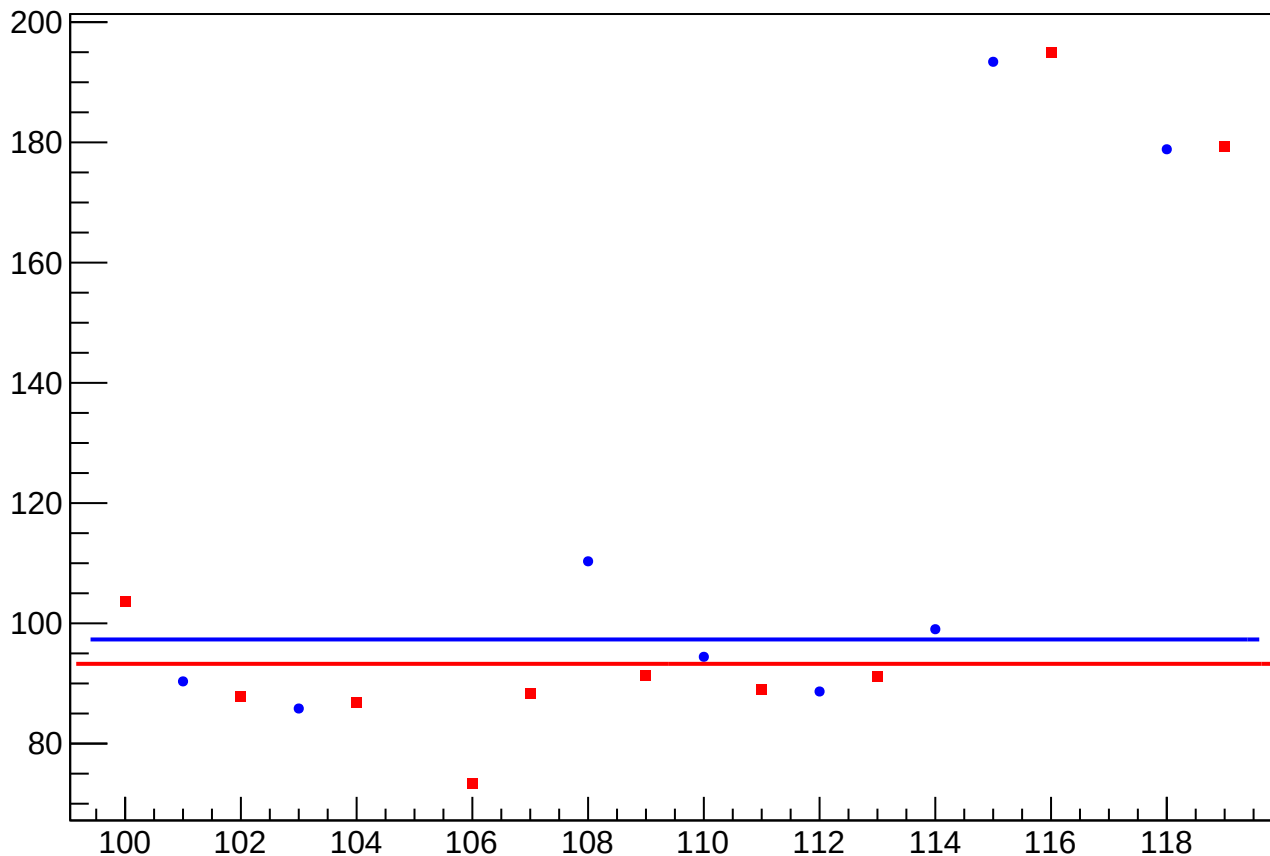
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-46.729 \pm 36.293$   $\chi^2/\text{NDF}$ : 18.2/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam5\_rms vs Slug



Right In: 97.319+/-0.039  $\chi^2/\text{NDF}$ : 344981.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 93.264+/-0.034  $\chi^2/\text{NDF}$ : 463768.1/9

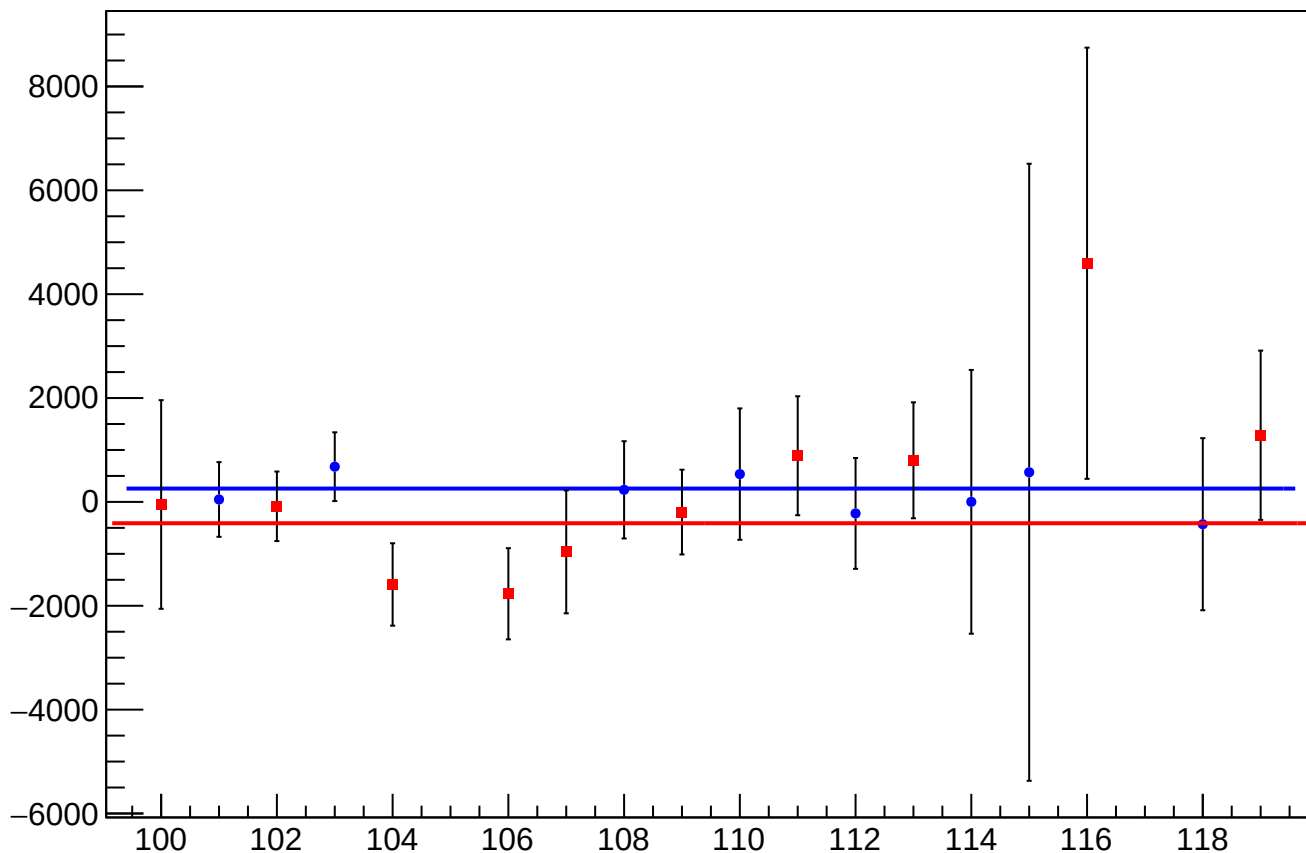
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.017+/-0.026  $\chi^2/\text{NDF}$ : 814875.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_dit\_correction\_mean vs Slug



Right In: 257.122+/-367.497  $\chi^2/\text{NDF}$ : 0.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -410.623+/-323.104  $\chi^2/\text{NDF}$ : 10.2/9

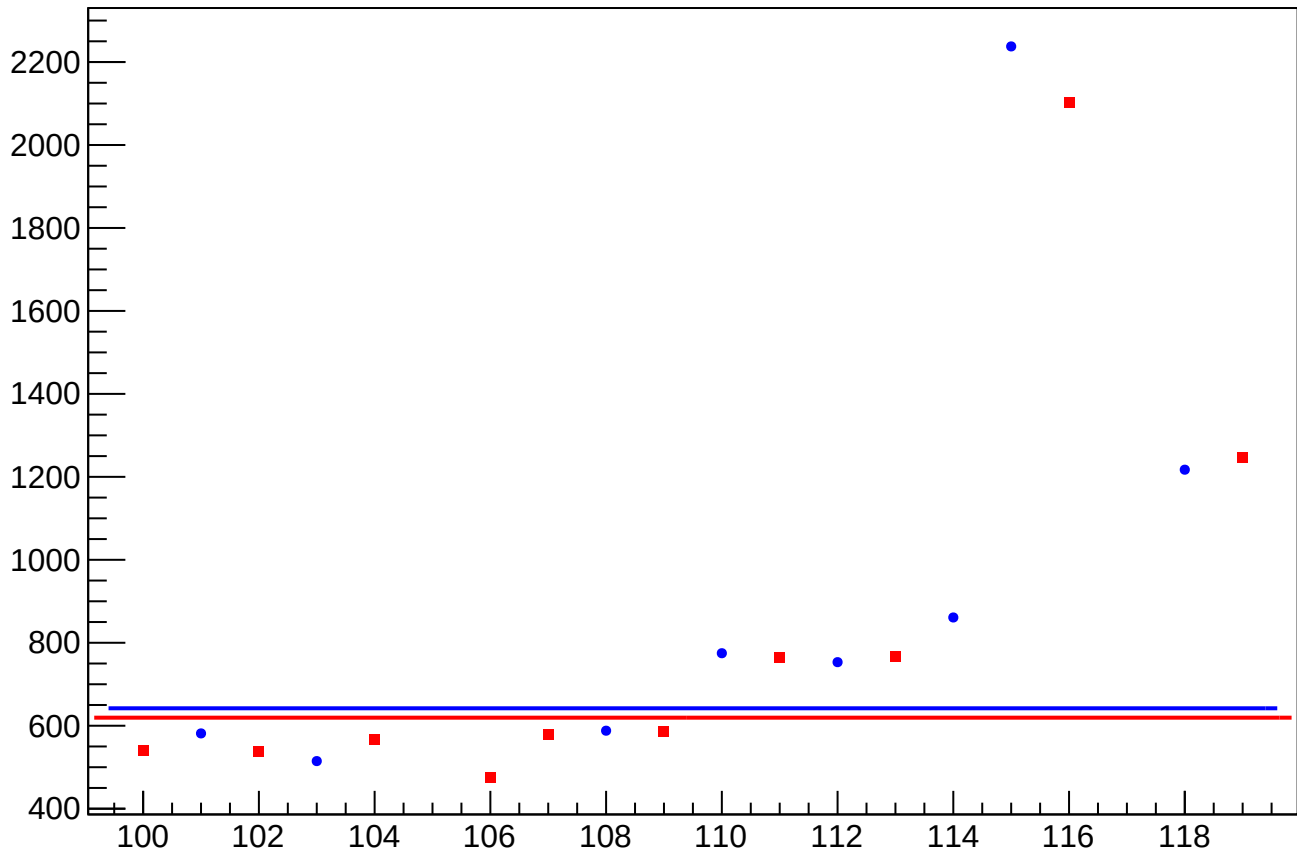
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -119.498+/-242.655  $\chi^2/\text{NDF}$ : 12.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_dit\_correction\_rms vs Slug



Right In: 642.065+/-0.260  $\chi^2/\text{NDF}$ : 538627.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 619.427+/-0.228  $\chi^2/\text{NDF}$ : 720096.3/9

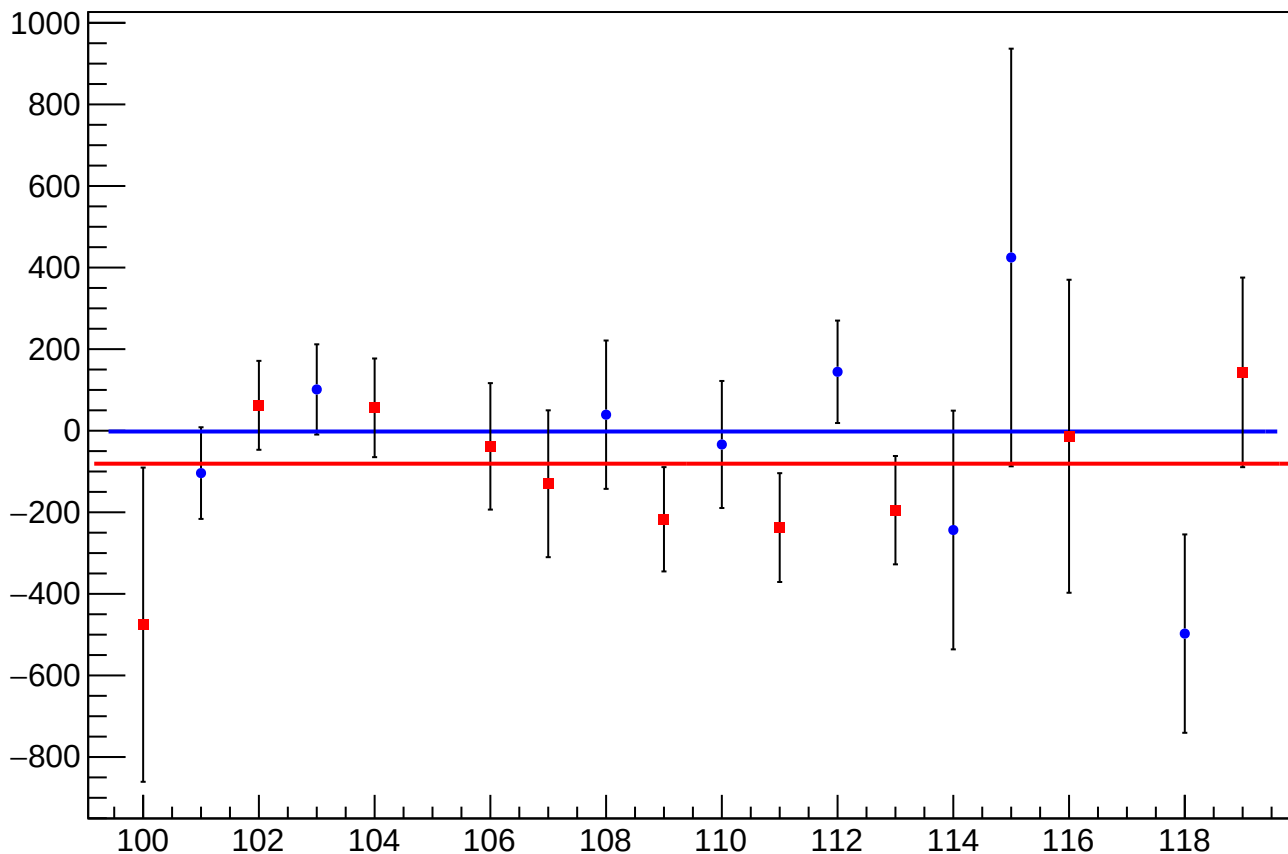
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 629.297+/-0.172  $\chi^2/\text{NDF}$ : 1263004.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam5\_mean vs Slug



Right In:  $-1.930 \pm 55.201$   $\chi^2/\text{NDF}$ : 8.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-80.841 \pm 48.167$   $\chi^2/\text{NDF}$ : 8.4/9

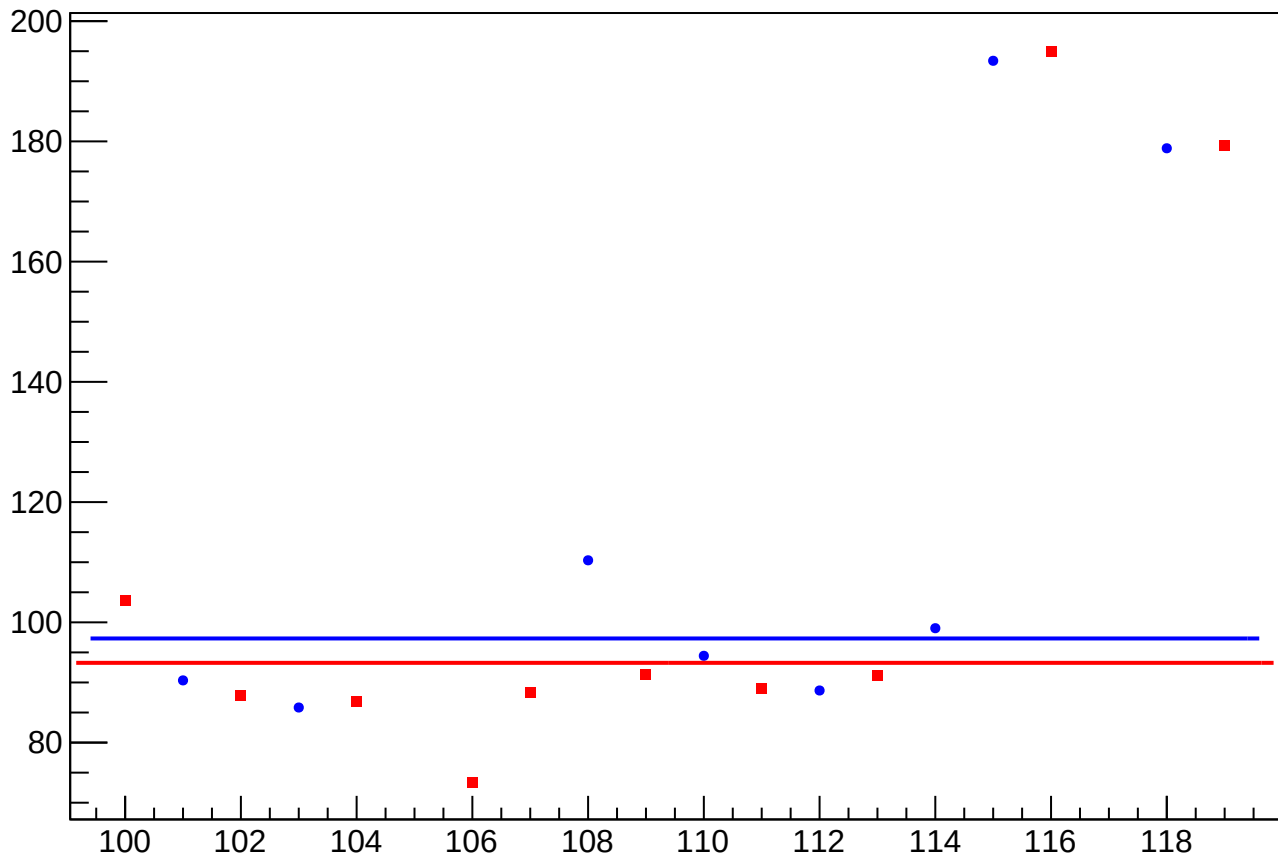
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-46.730 \pm 36.293$   $\chi^2/\text{NDF}$ : 18.2/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam5\_rms vs Slug



Right In: 97.318+/-0.039  $\chi^2/\text{NDF}$ : 344981.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 93.264+/-0.034  $\chi^2/\text{NDF}$ : 463768.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

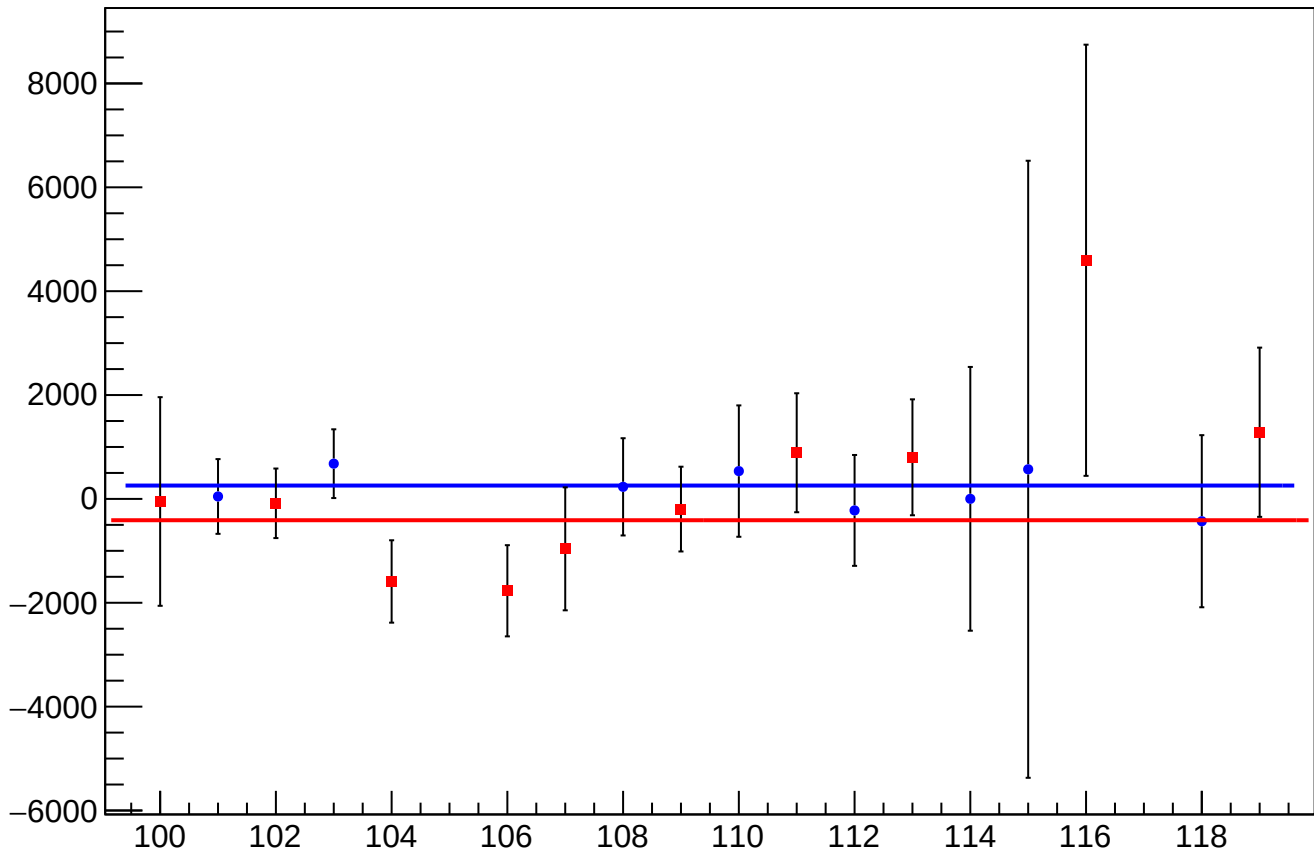
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.017+/-0.026  $\chi^2/\text{NDF}$ : 814875.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam5\_eigen\_dit\_correction\_mean vs Slug



Right In: 257.121+/-367.496  $\chi^2/\text{NDF}$ : 0.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -410.623+/-323.104  $\chi^2/\text{NDF}$ : 10.2/9

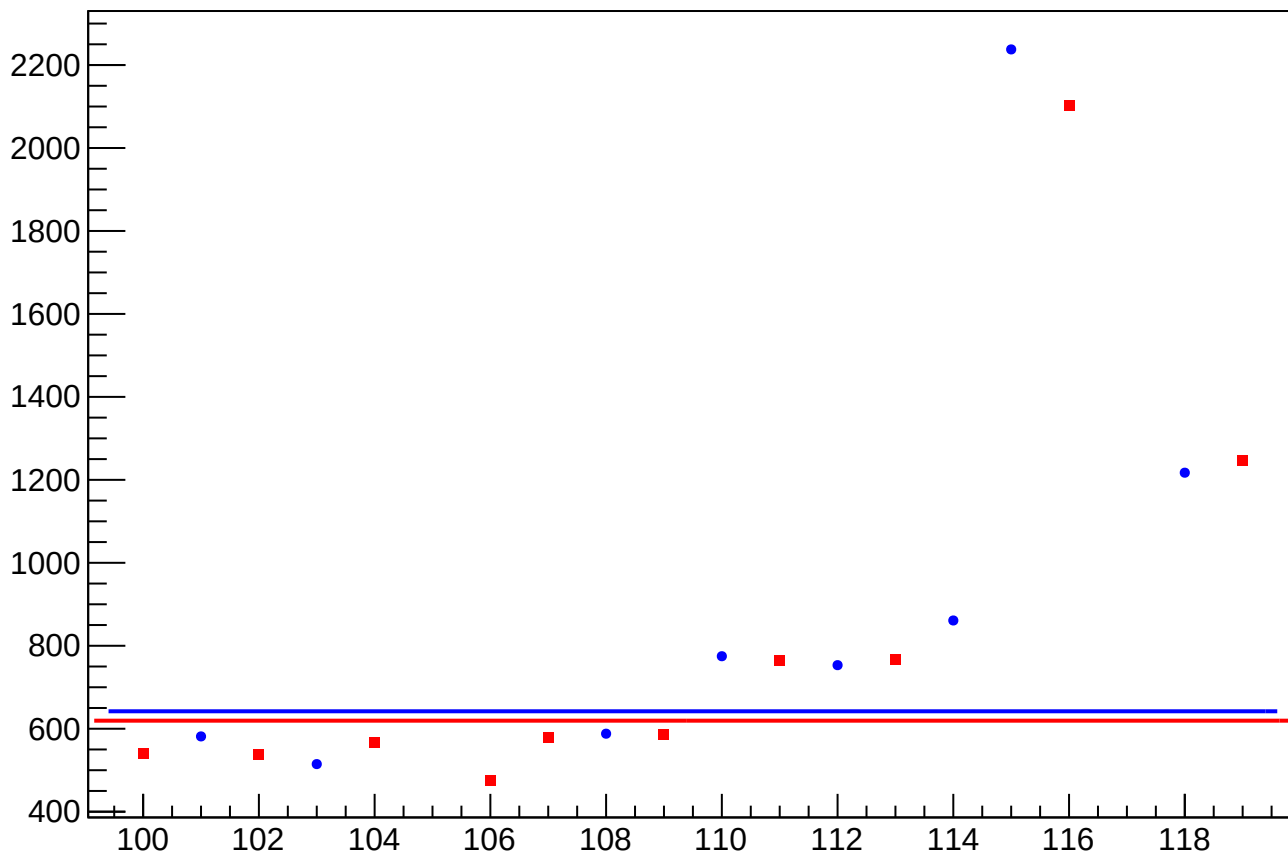
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -119.498+/-242.654  $\chi^2/\text{NDF}$ : 12.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_eigen\_dit\_correction\_rms vs Slug



Right In: 642.064 $\pm$ 0.260  $\chi^2$ /NDF: 538626.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 619.426 $\pm$ 0.228  $\chi^2$ /NDF: 720095.7/9

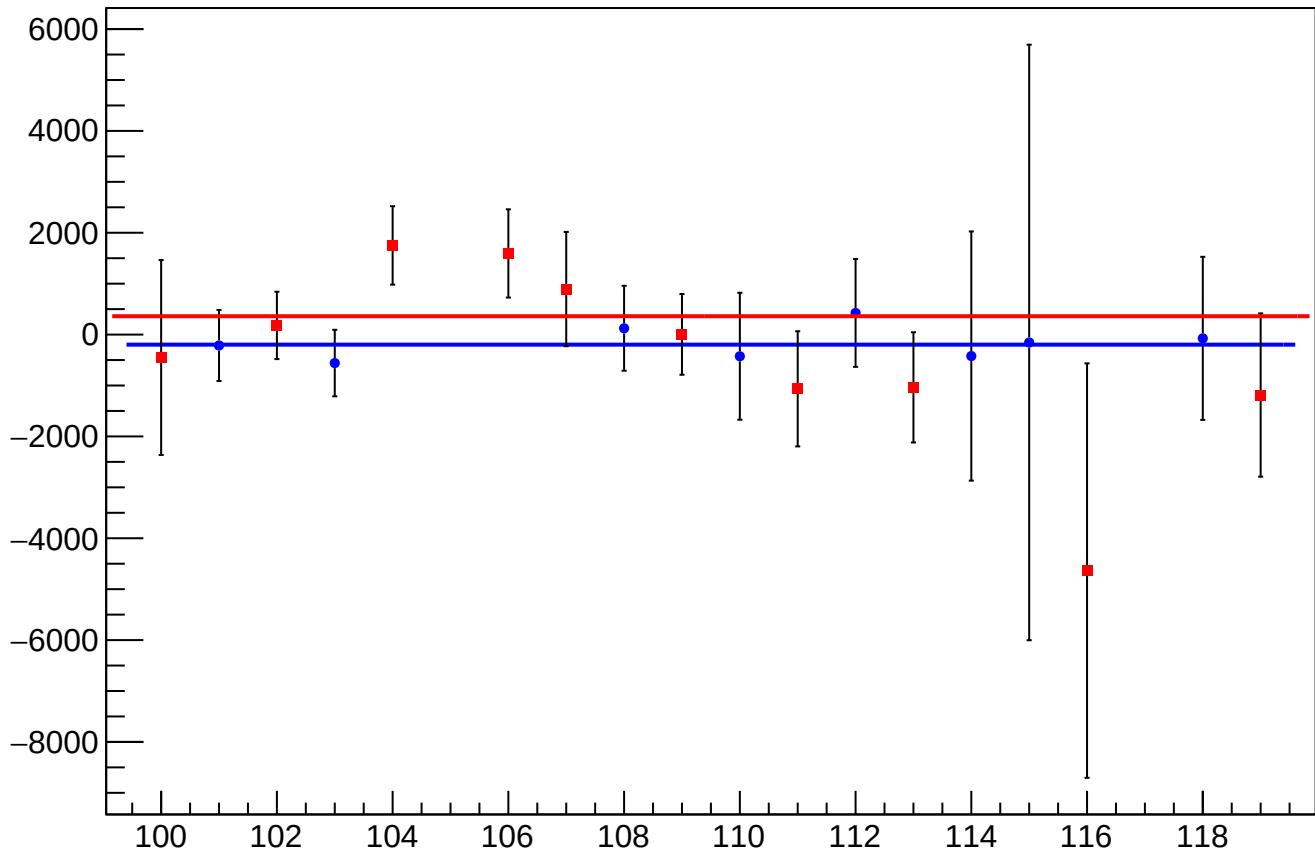
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 629.296 $\pm$ 0.172  $\chi^2$ /NDF: 1263003.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_mean vs Slug



Right In: -197.607+/-354.531  $\chi^2/\text{NDF}$ : 0.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 360.763+/-315.448  $\chi^2/\text{NDF}$ : 11.7/9

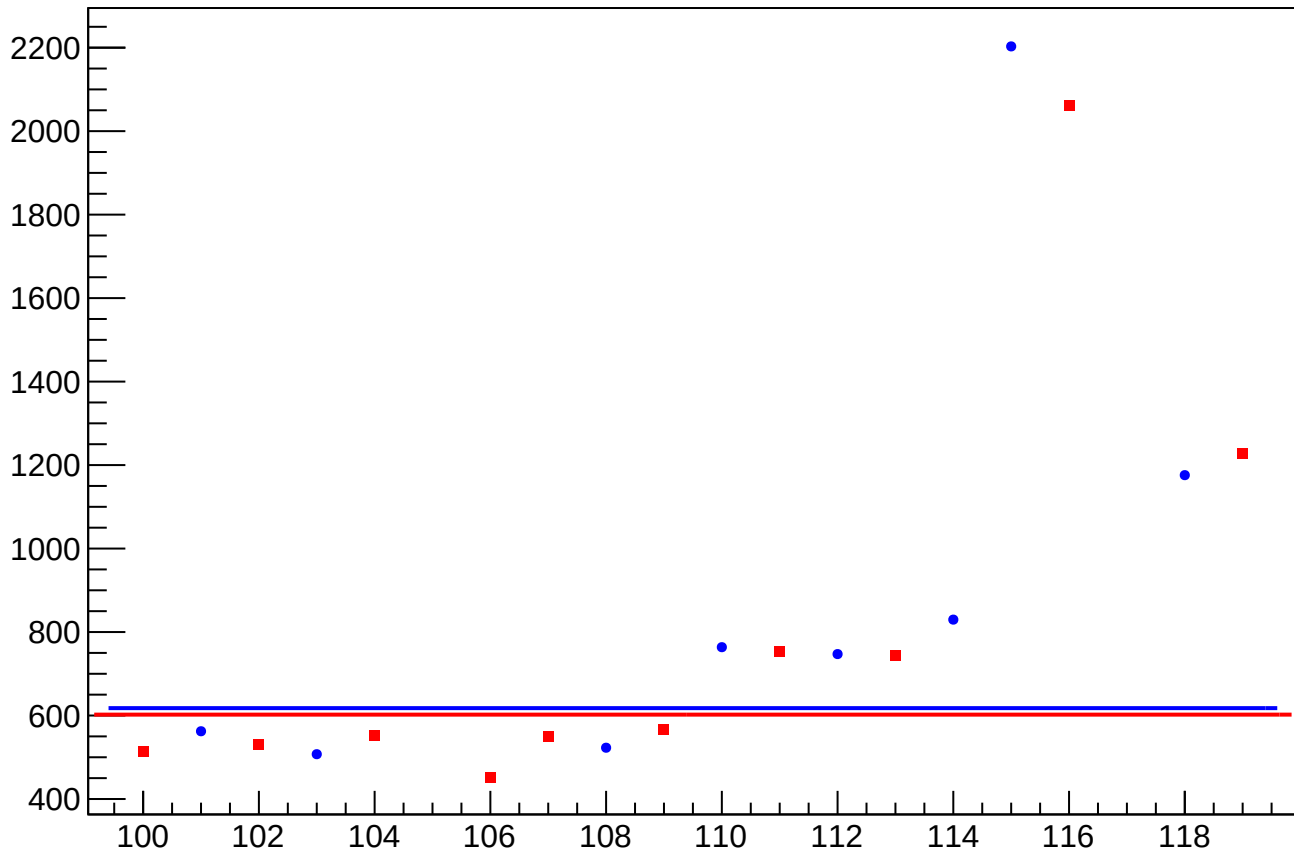
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 114.039+/-235.667  $\chi^2/\text{NDF}$ : 13.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_rms vs Slug



Right In: 617.710 $\pm$ 0.251  $\chi^2$ /NDF: 557877.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 602.139 $\pm$ 0.223  $\chi^2$ /NDF: 735911.4/9

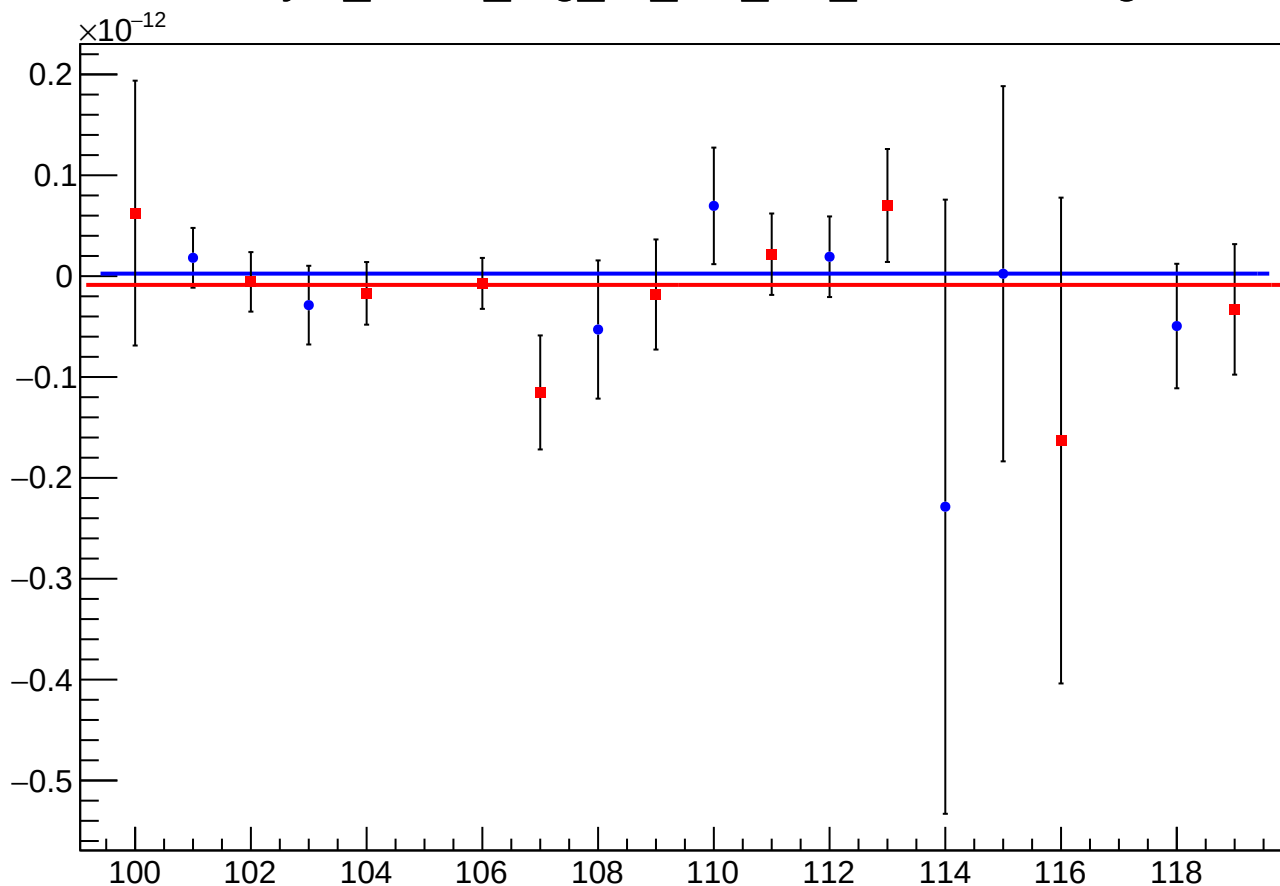
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 609.020 $\pm$ 0.167  $\chi^2$ /NDF: 1295942.3/17

- 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  $\chi^2/\text{NDF}$ : 4.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 7.1/9

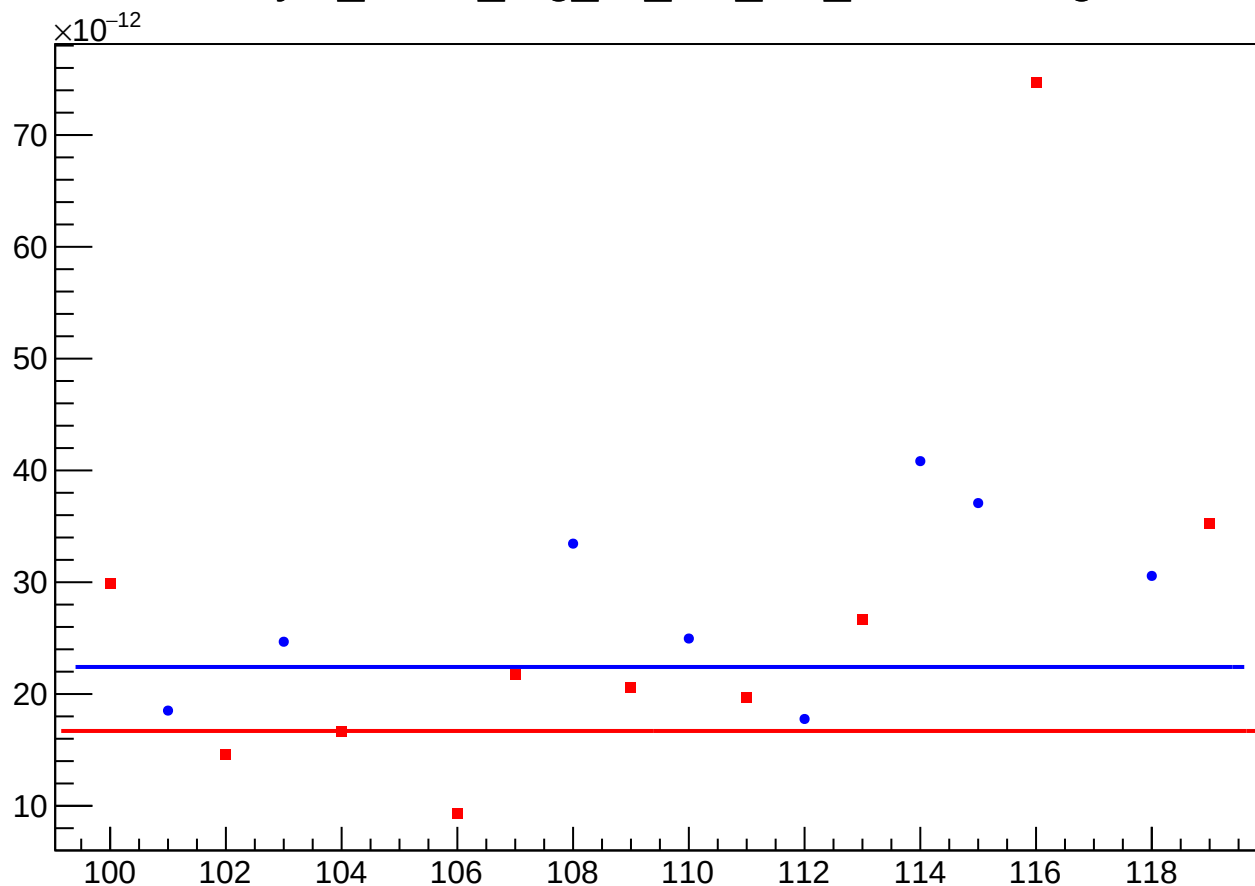
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 11.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 178785.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 582683.6/9

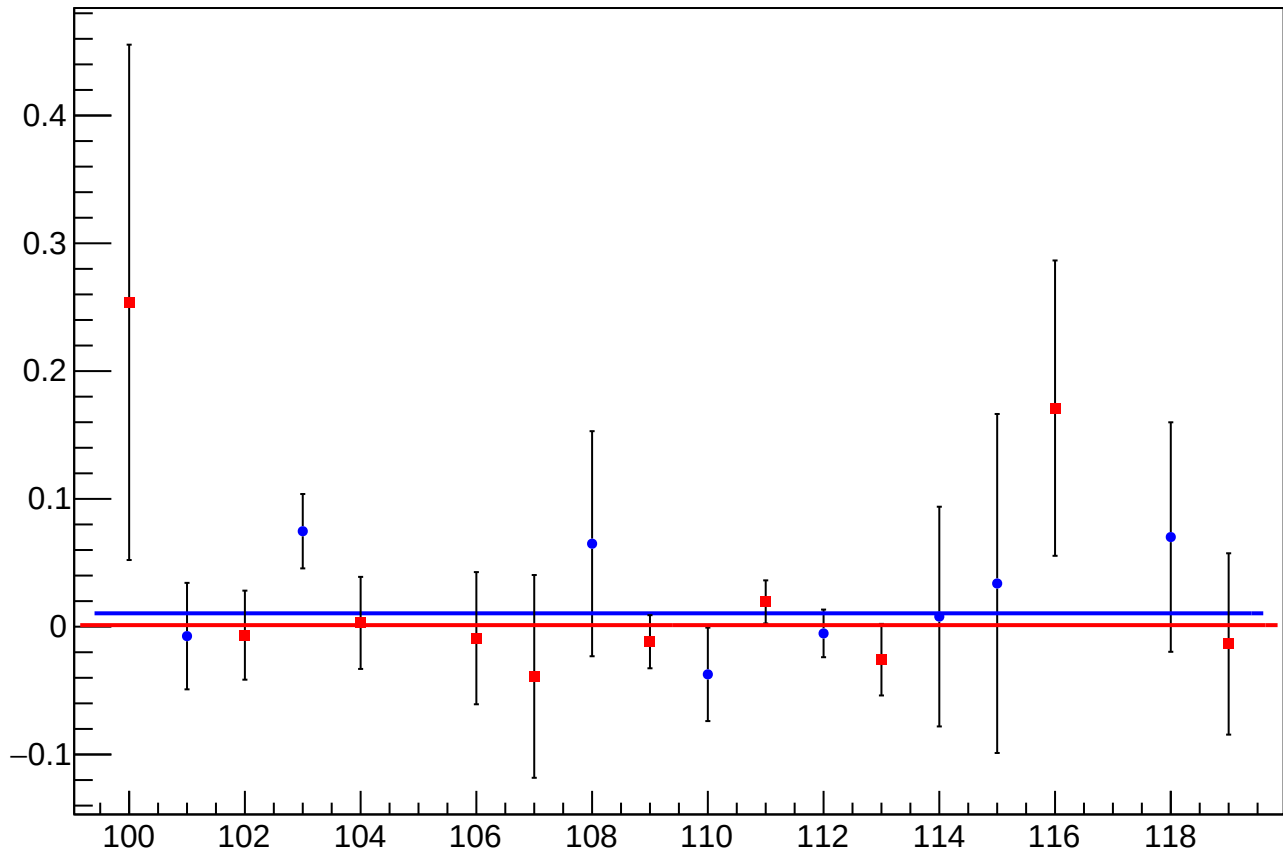
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 896317.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.010 $\pm$ 0.013  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.001 $\pm$ 0.010  $\chi^2$ /NDF: 6.6/9

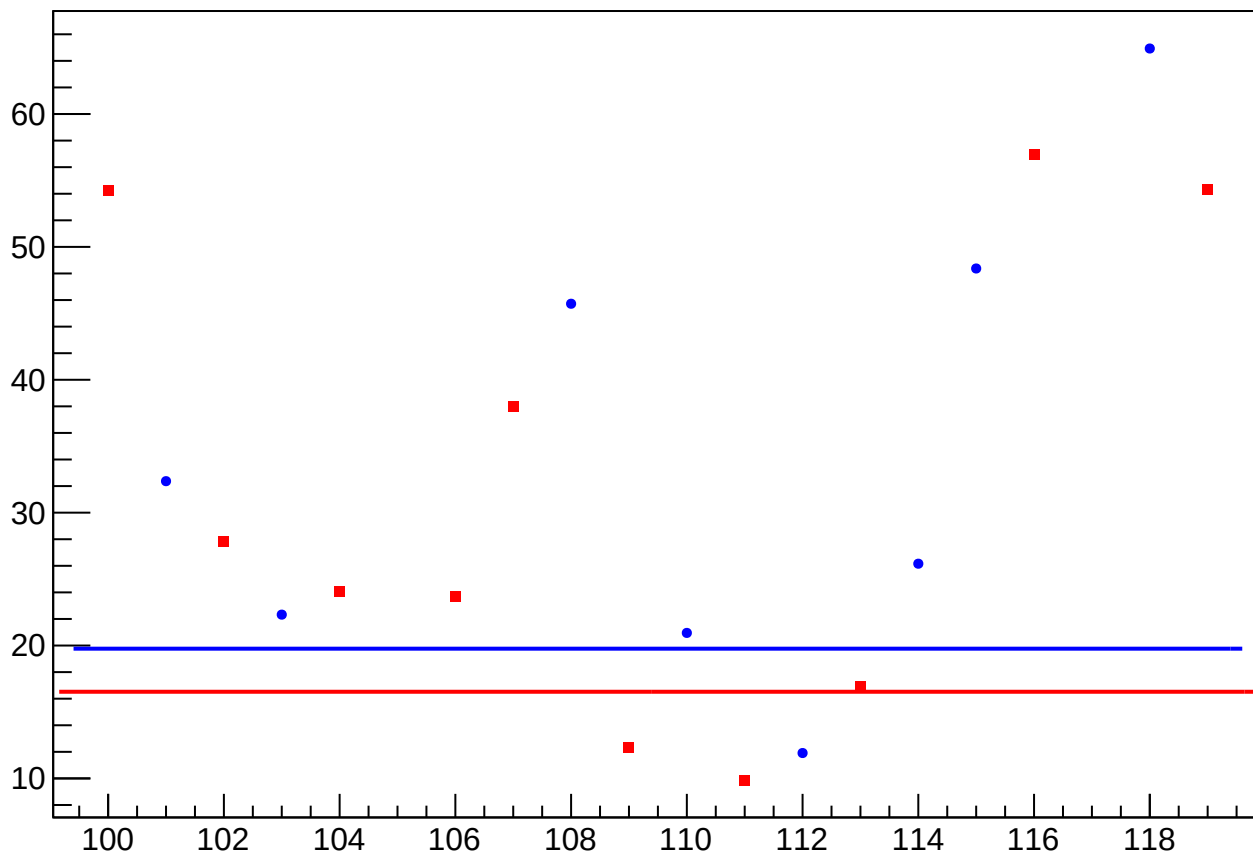
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.008  $\chi^2$ /NDF: 15.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 19.764 $\pm$ 0.009  $\chi^2$ /NDF: 1339967.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.522 $\pm$ 0.007  $\chi^2$ /NDF: 1761030.6/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

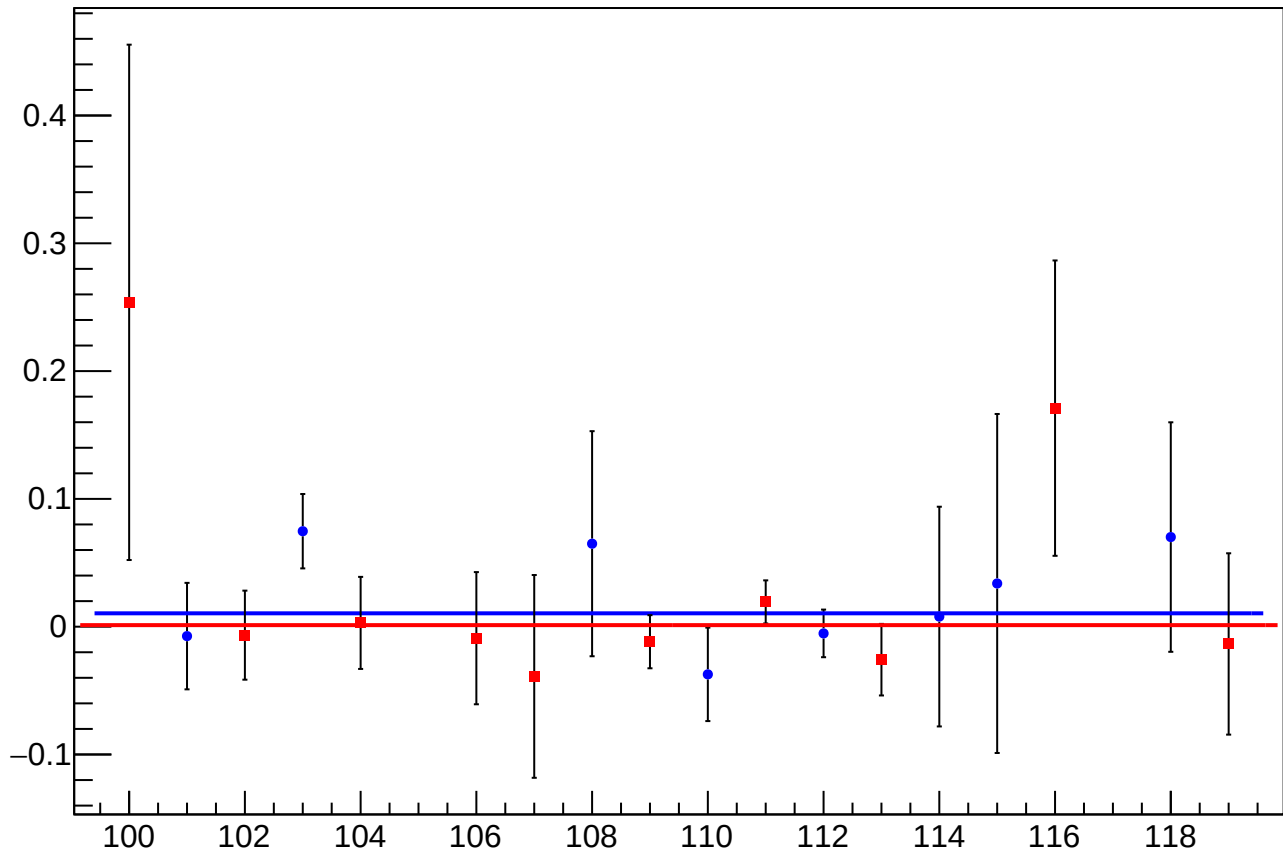
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.752 $\pm$ 0.006  $\chi^2$ /NDF: 3177021.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam5\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.010 $\pm$ 0.013  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.001 $\pm$ 0.010  $\chi^2$ /NDF: 6.6/9

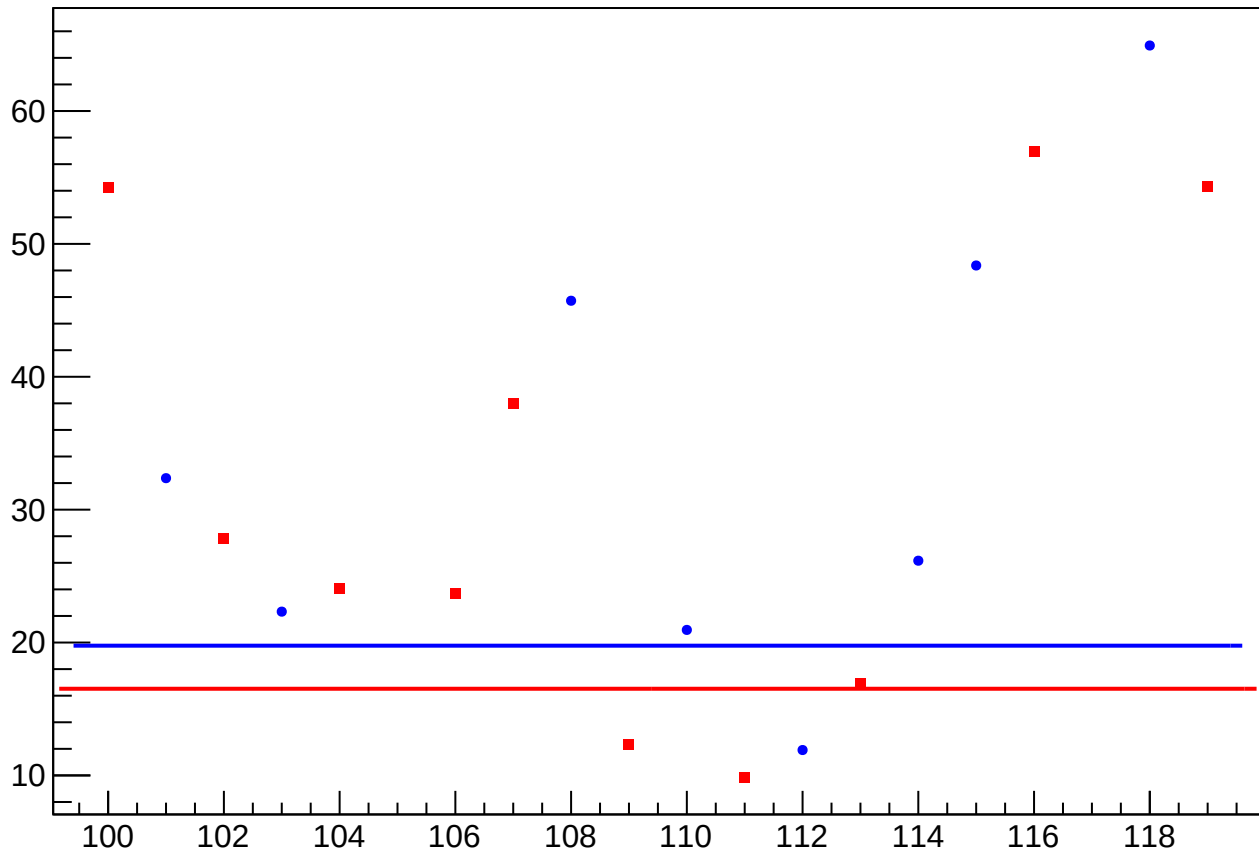
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.008  $\chi^2$ /NDF: 15.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 19.764 $\pm$ 0.009  $\chi^2$ /NDF: 1339967.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.522 $\pm$ 0.007  $\chi^2$ /NDF: 1761030.6/9

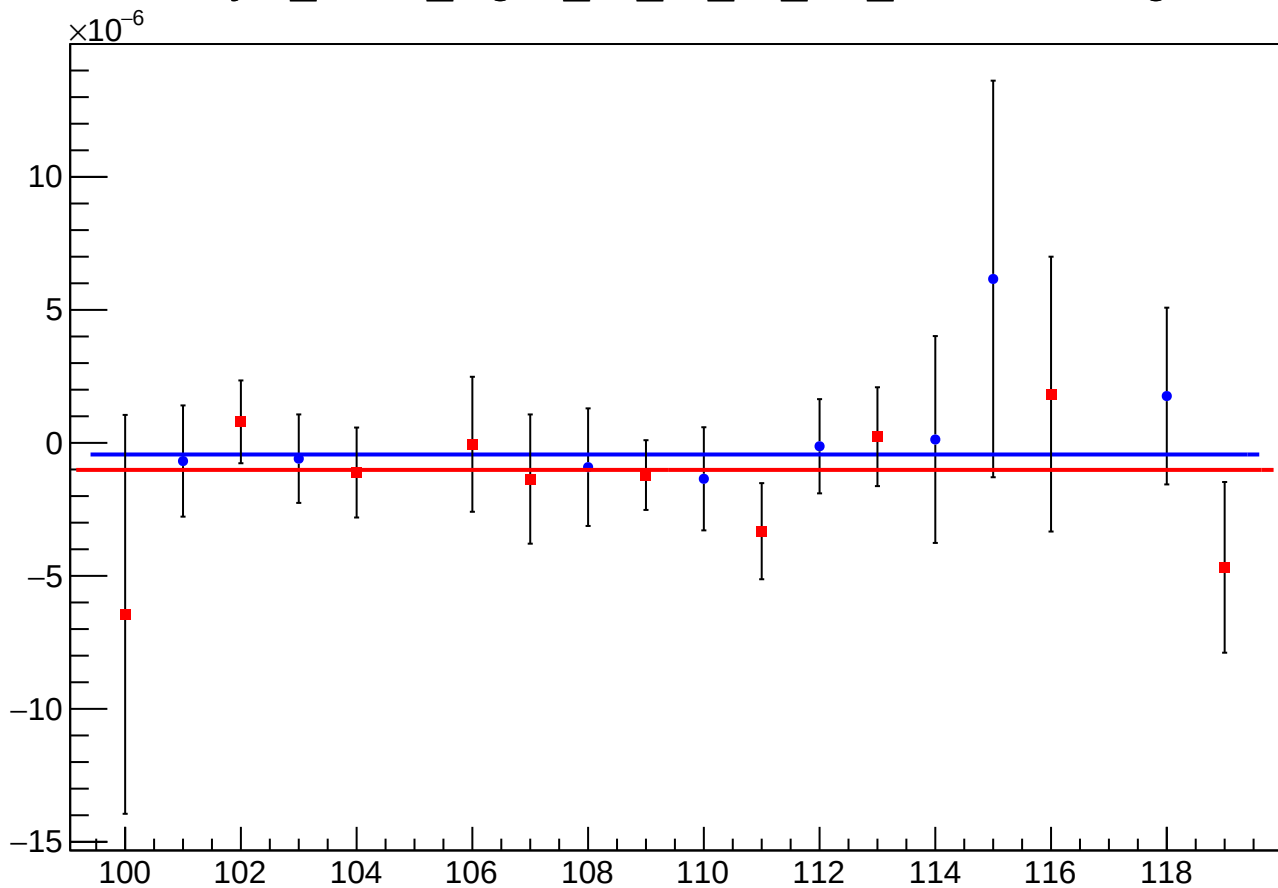
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.752 $\pm$ 0.006  $\chi^2$ /NDF: 3177021.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 1.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 5.7/9

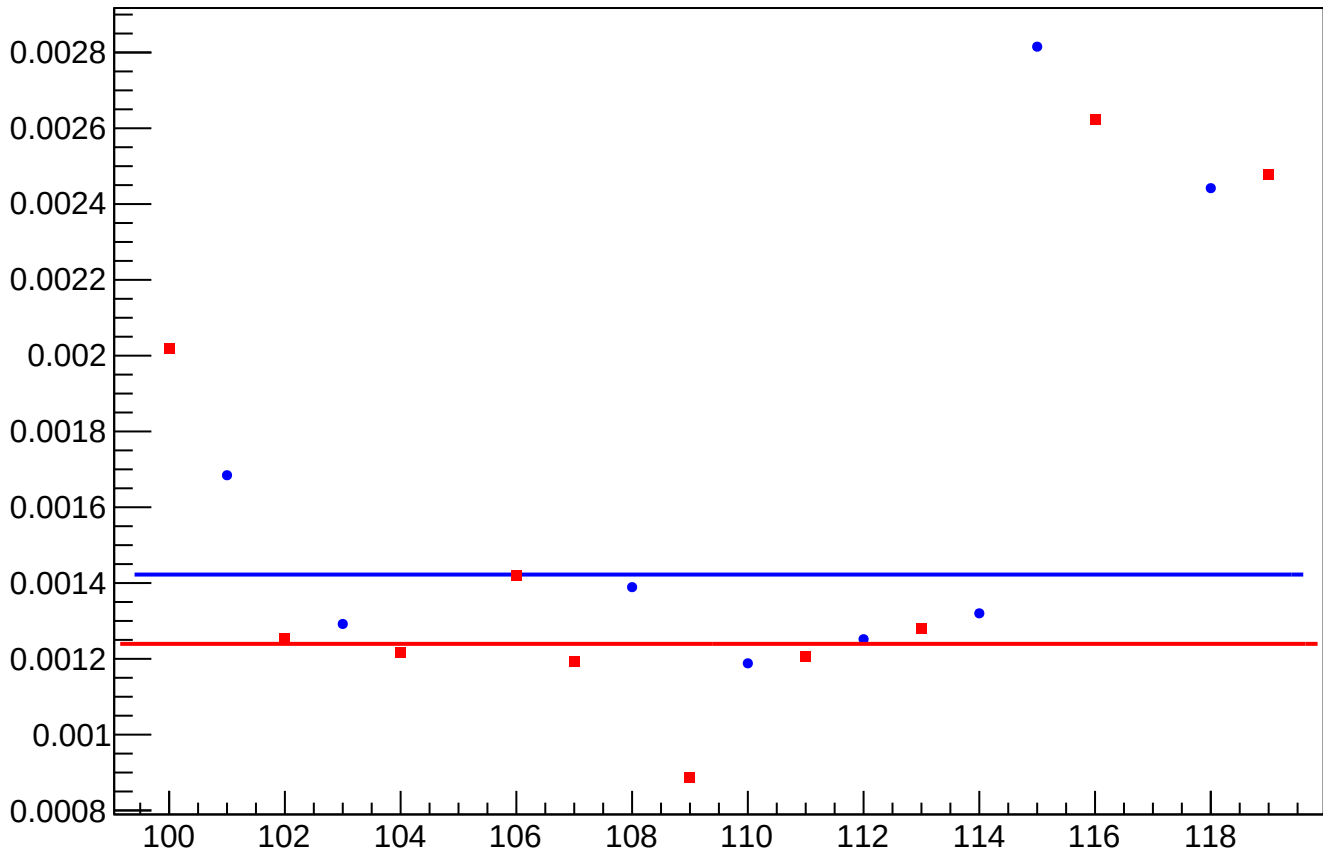
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 7.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 351430.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 620212.1/9

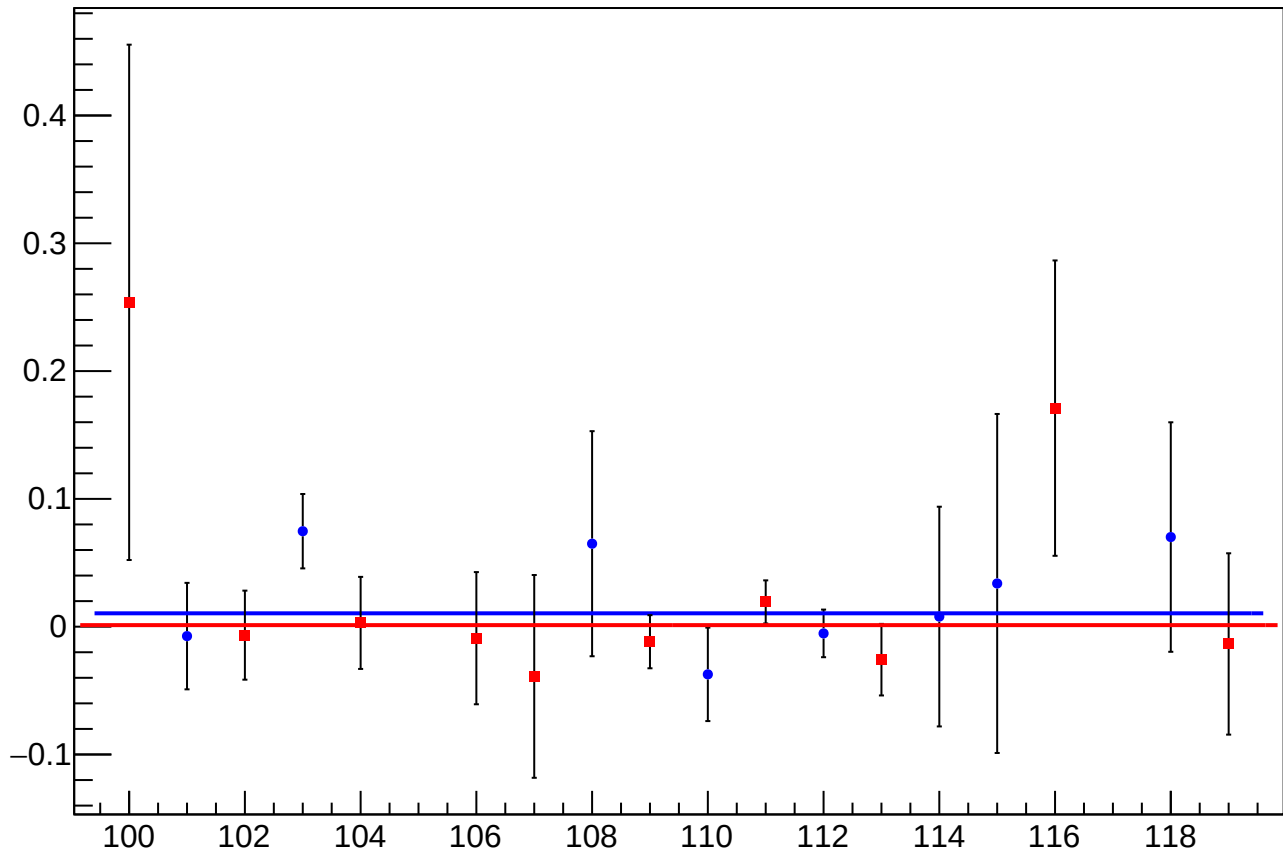
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1034899.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.010 $\pm$ 0.013  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.001 $\pm$ 0.010  $\chi^2$ /NDF: 6.6/9

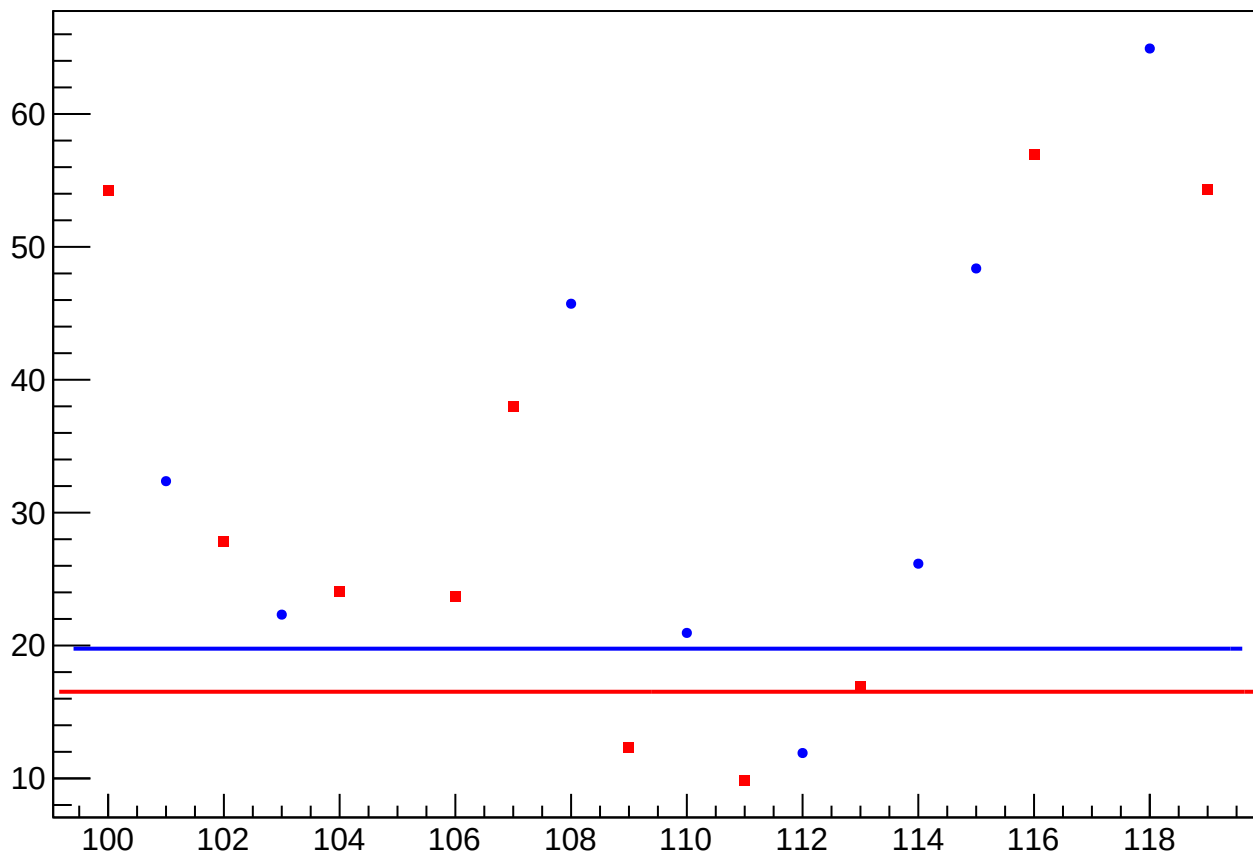
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.008  $\chi^2$ /NDF: 15.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 19.763+/-0.009  $\chi^2/\text{NDF}$ : 1339957.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16.522+/-0.007  $\chi^2/\text{NDF}$ : 1761074.5/9

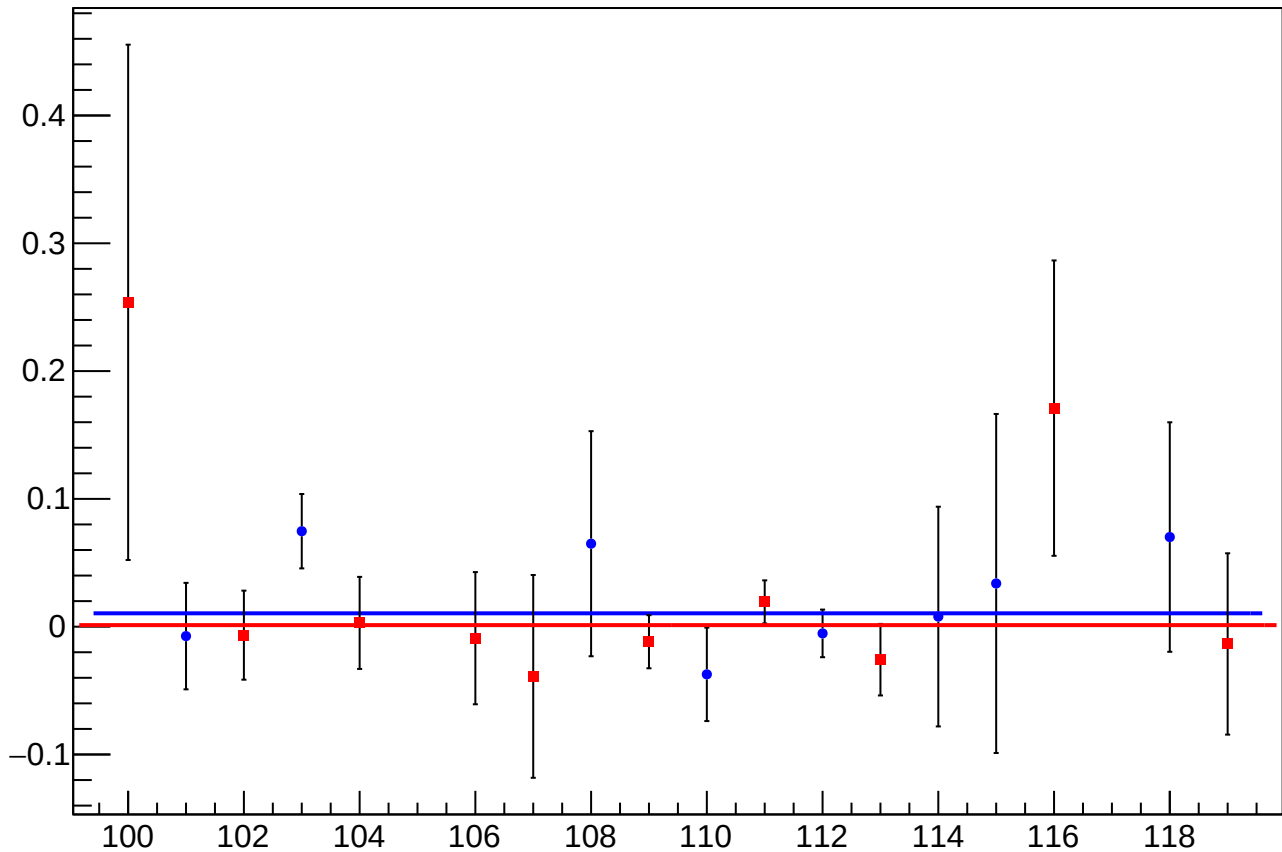
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.752+/-0.006  $\chi^2/\text{NDF}$ : 3177064.9/17

- 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: 0.010 $\pm$ 0.013  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.001 $\pm$ 0.010  $\chi^2$ /NDF: 6.6/9

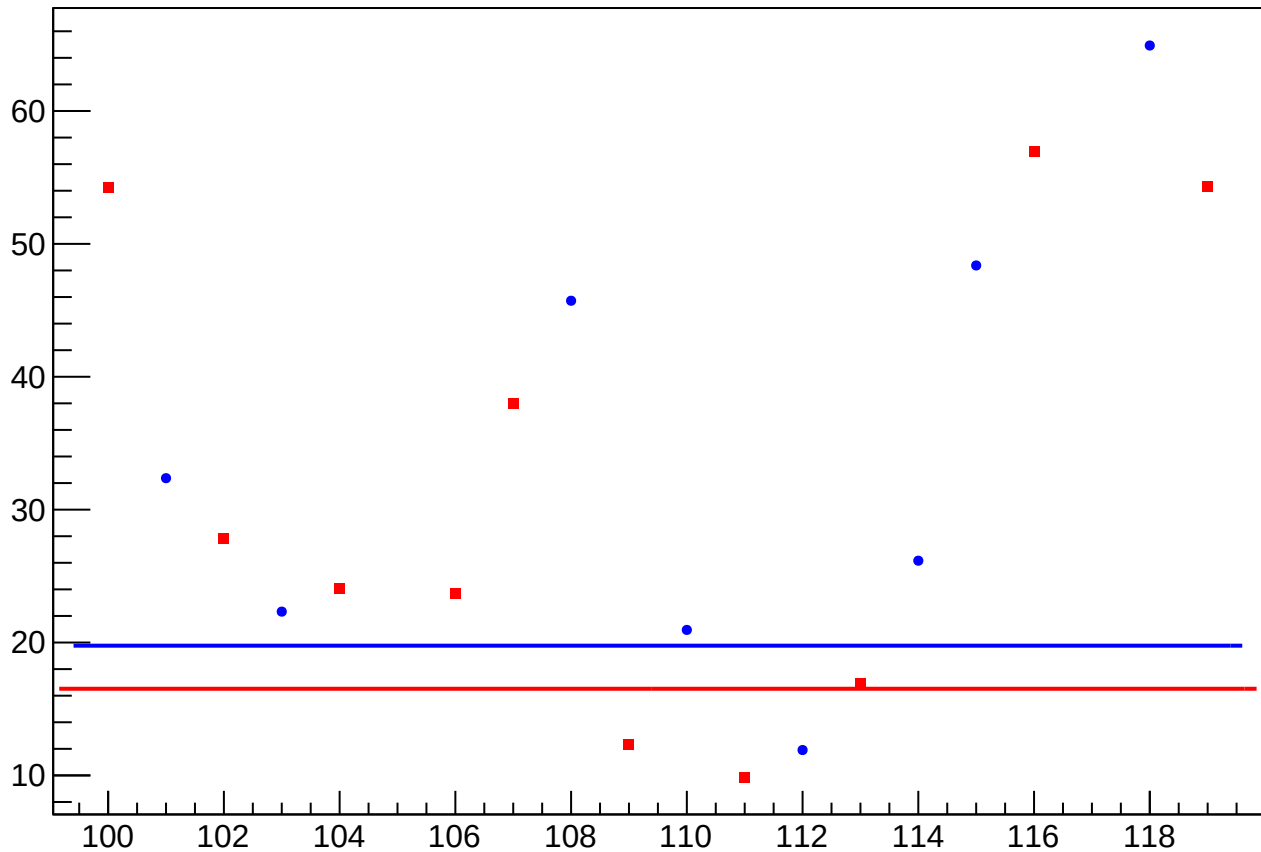
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.008  $\chi^2$ /NDF: 15.2/17

- 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: 19.763 $\pm$ 0.009  $\chi^2$ /NDF: 1339957.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.522 $\pm$ 0.007  $\chi^2$ /NDF: 1761074.5/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

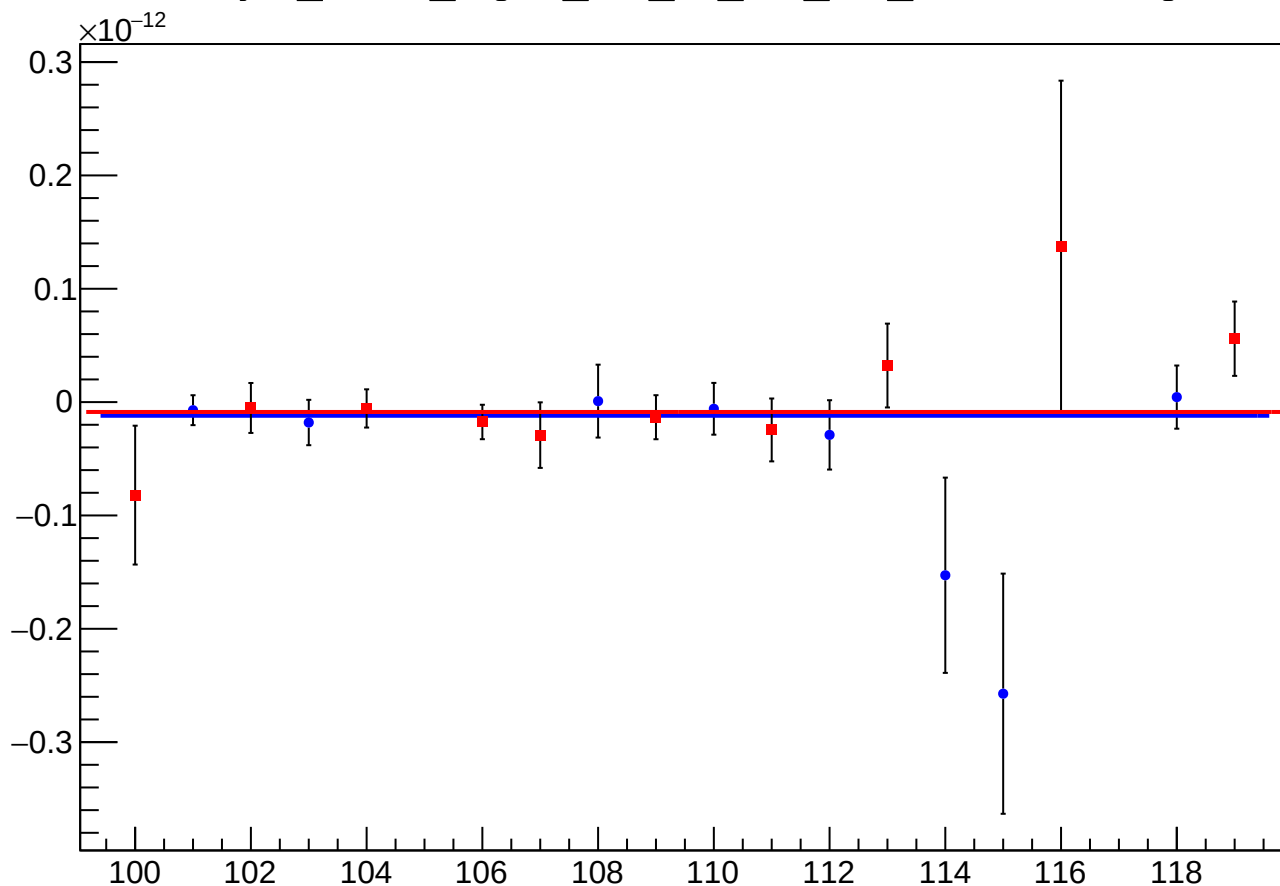
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.752 $\pm$ 0.006  $\chi^2$ /NDF: 3177064.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam5\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.8/9

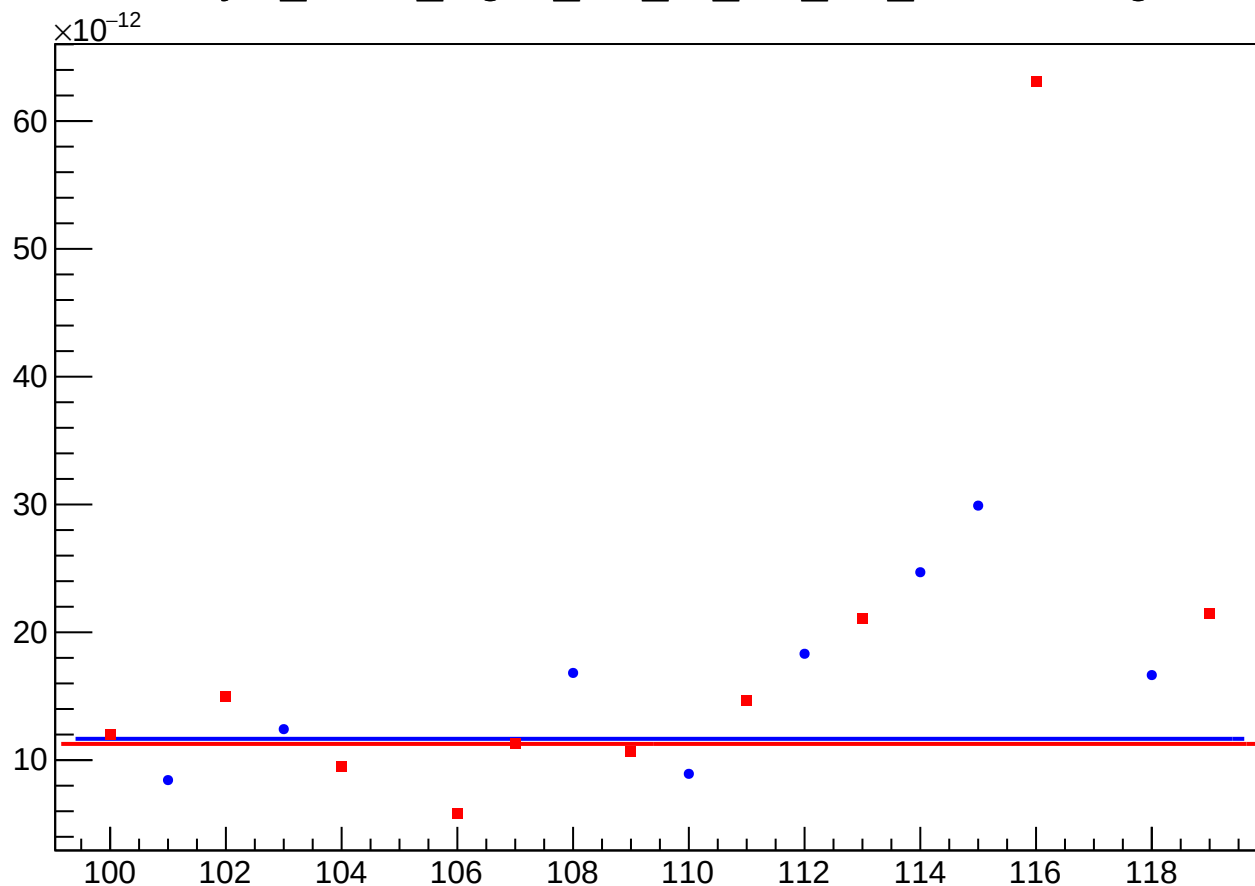
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.1/17

- sign 0.000+/-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  $\chi^2/\text{NDF}$ : 466581.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 955019.4/9

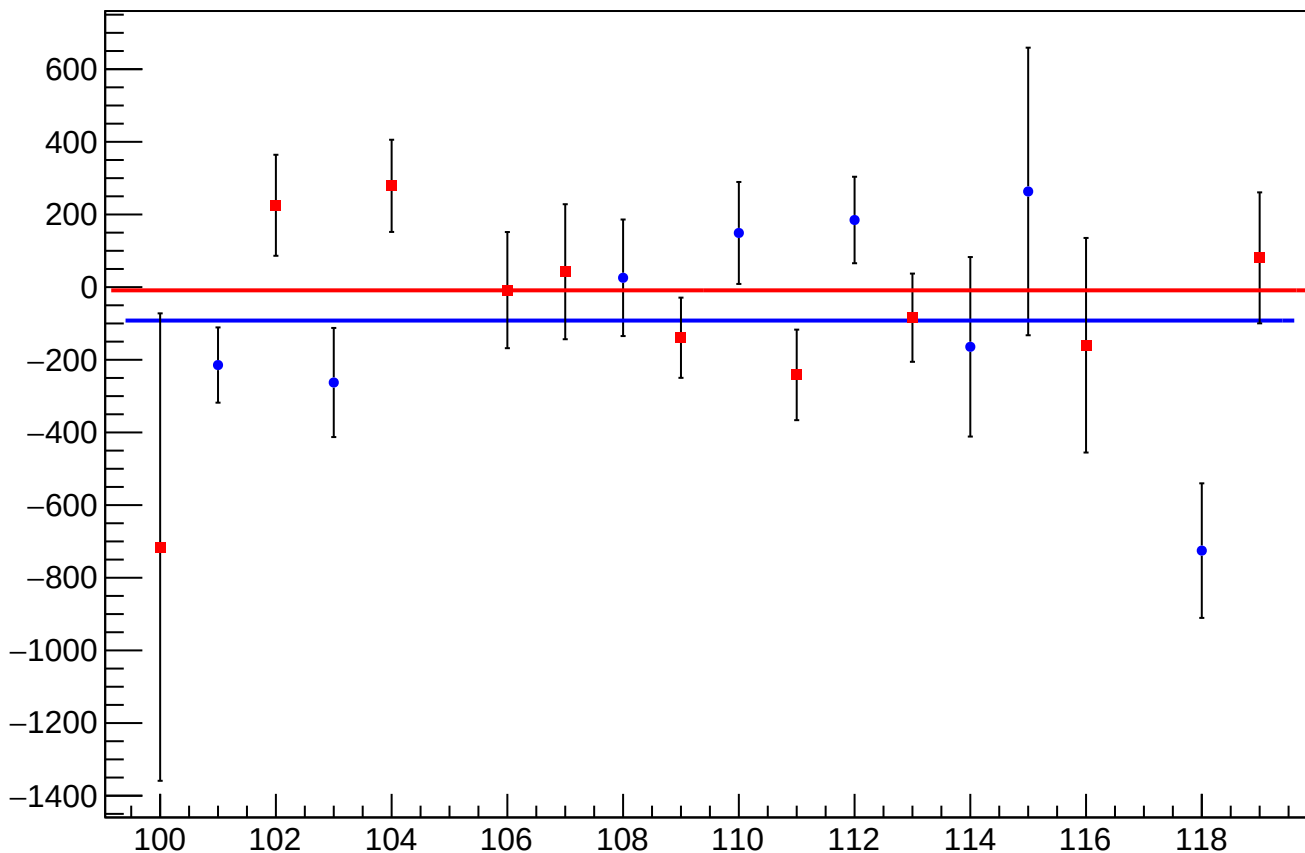
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1424008.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_mean vs Slug



Right In: -91.998 $\pm$ 53.480  $\chi^2$ /NDF: 24.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.827 $\pm$ 47.627  $\chi^2$ /NDF: 15.0/9

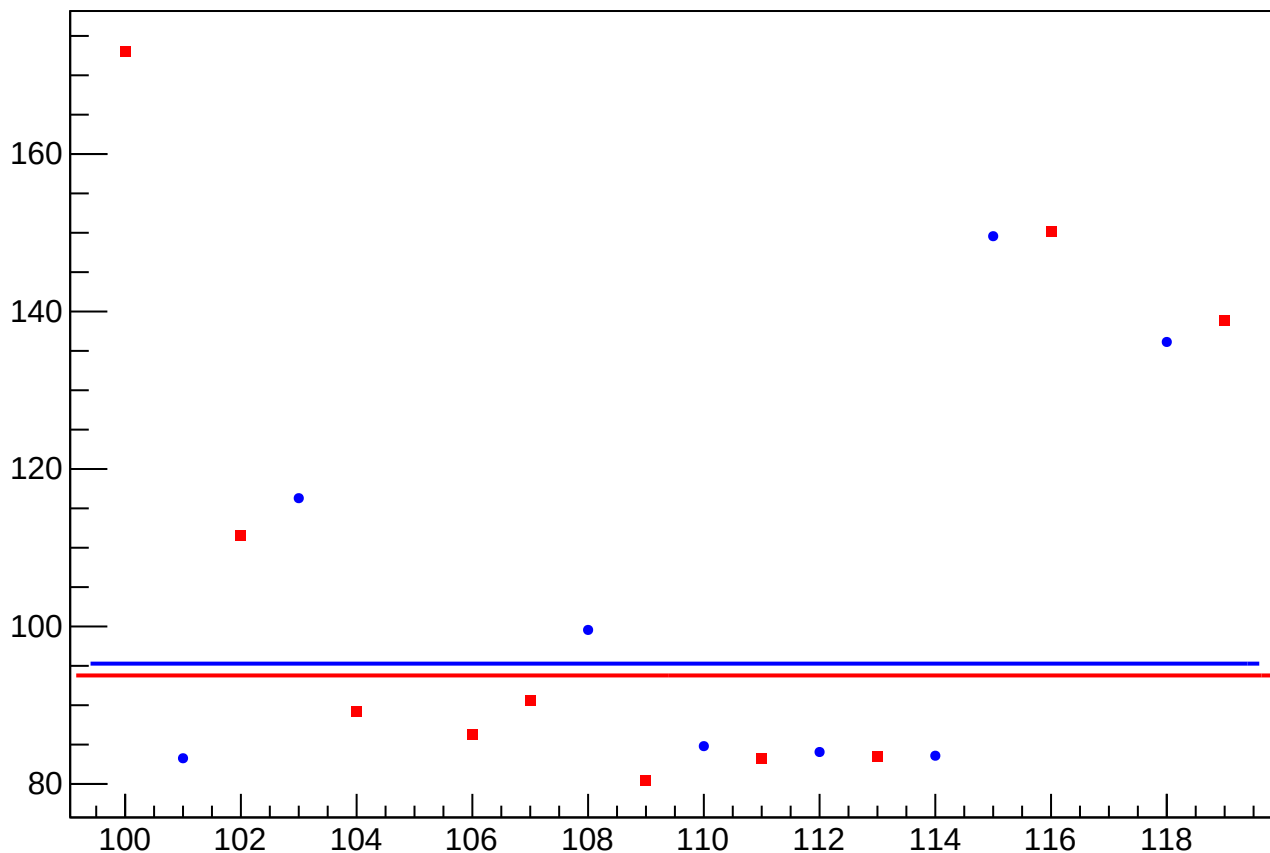
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -45.614 $\pm$ 35.567  $\chi^2$ /NDF: 40.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam6\_rms vs Slug



Right In: 95.281+/-0.038  $\chi^2/\text{NDF}$ : 235804.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 93.779+/-0.034  $\chi^2/\text{NDF}$ : 326142.3/9

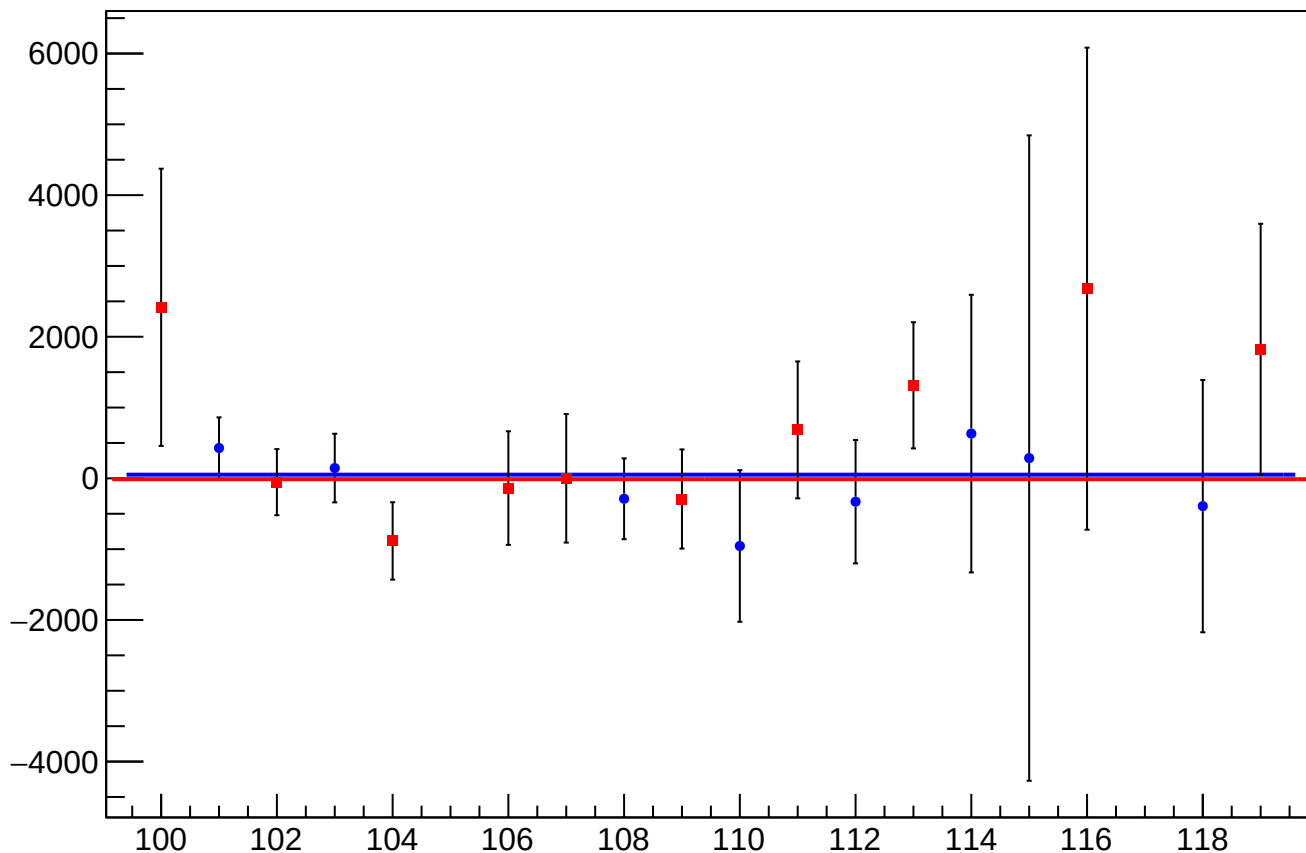
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.444+/-0.025  $\chi^2/\text{NDF}$ : 562826.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_reg\_correction\_mean vs Slug



Right In: 52.096+/-254.196  $\chi^2/\text{NDF}$ : 2.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11.708+/-252.084  $\chi^2/\text{NDF}$ : 8.7/9

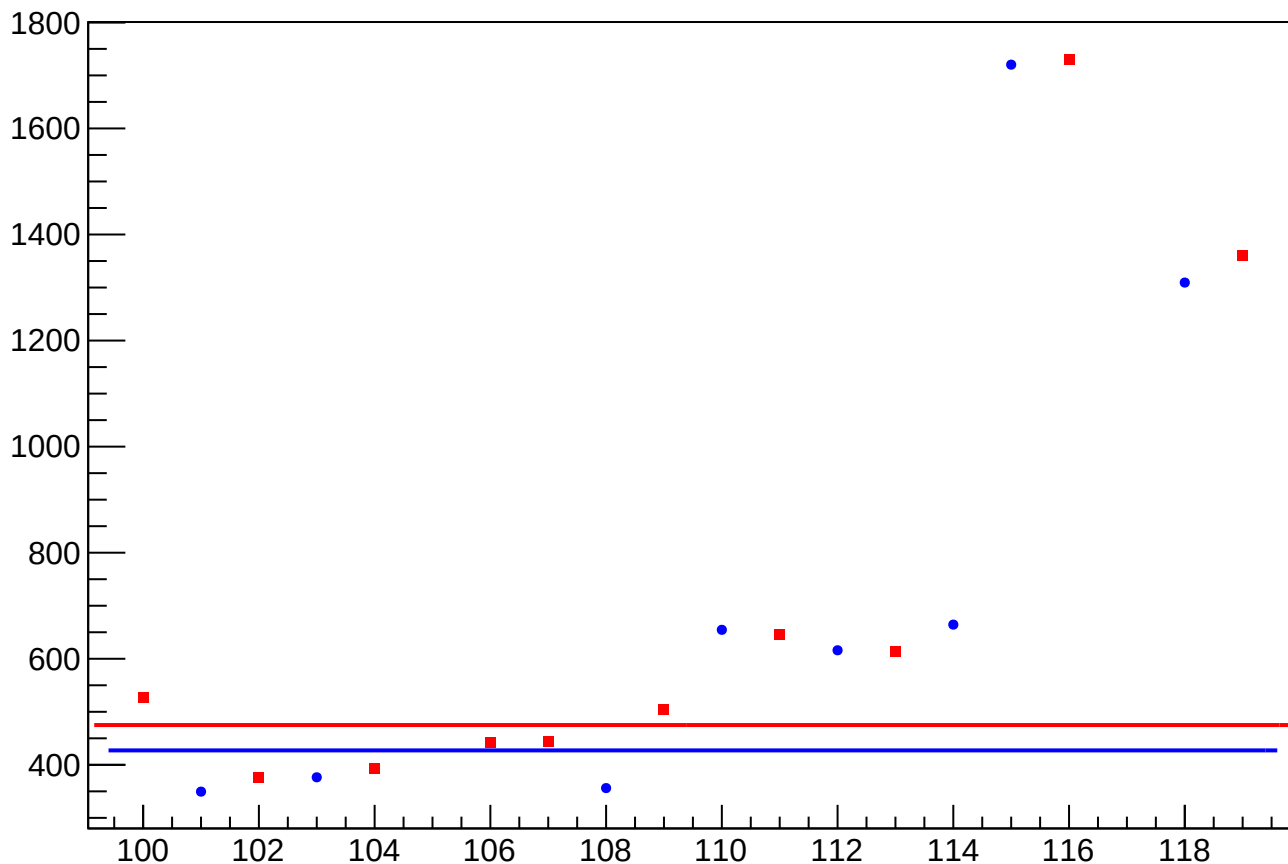
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.928+/-178.992  $\chi^2/\text{NDF}$ : 11.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_reg\_correction\_rms vs Slug



Right In: 427.214+/-0.180  $\chi^2/\text{NDF}$ : 981899.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 475.038+/-0.178  $\chi^2/\text{NDF}$ : 1027688.5/9

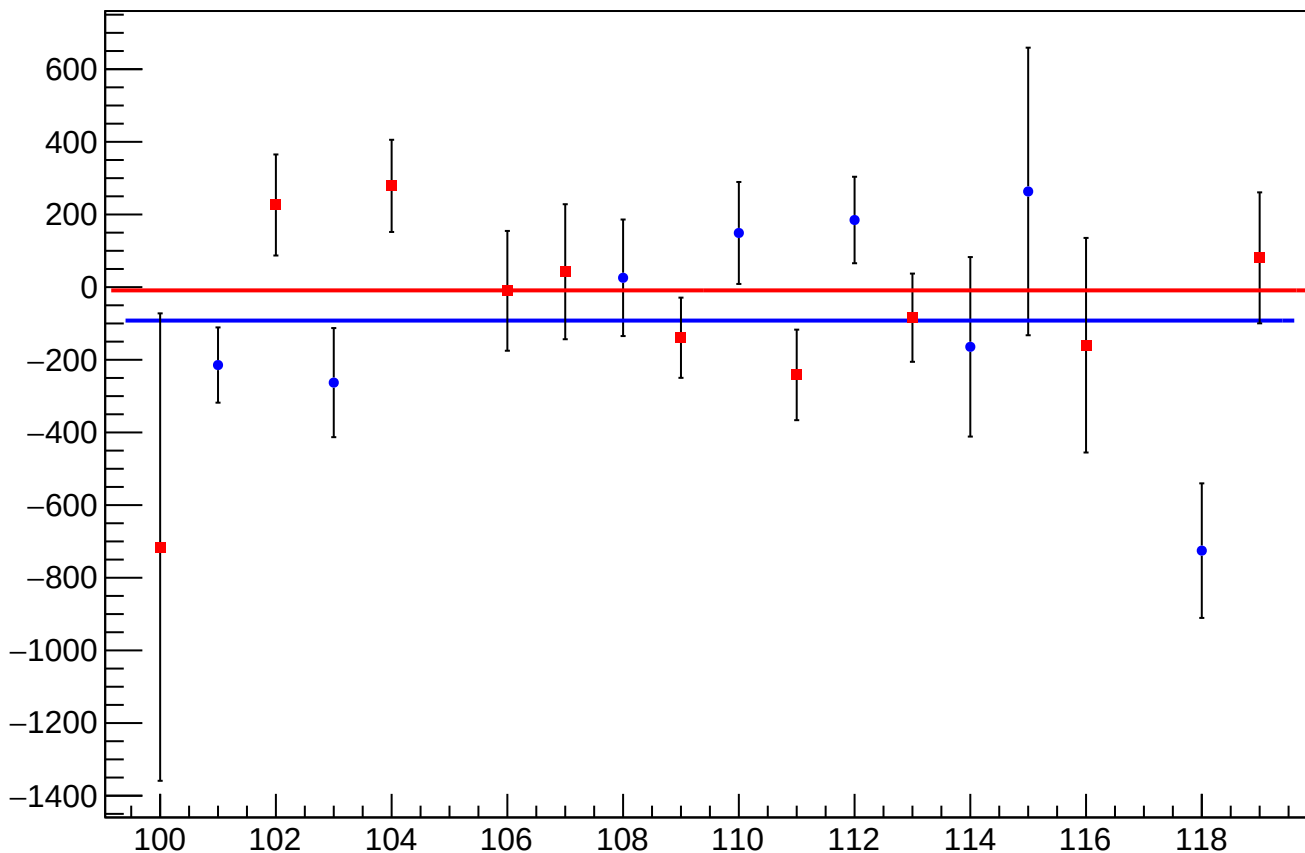
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 451.326+/-0.127  $\chi^2/\text{NDF}$ : 2045279.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam6\_mean vs Slug



Right In: -92.042 $\pm$ 53.480  $\chi^2$ /NDF: 24.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.931 $\pm$ 47.756  $\chi^2$ /NDF: 15.1/9

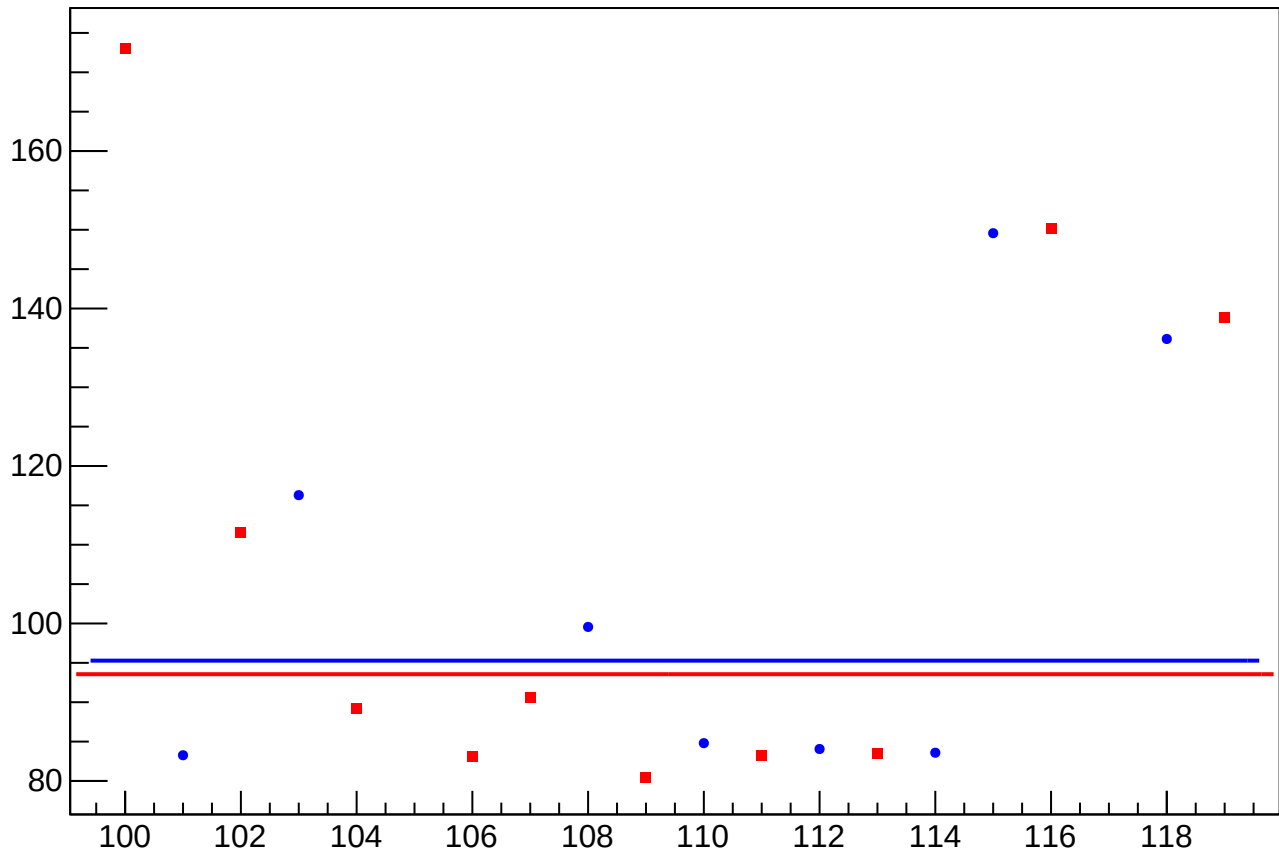
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -45.802 $\pm$ 35.621  $\chi^2$ /NDF: 40.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam6\_rms vs Slug



Right In:  $95.281 \pm 0.038$   $\chi^2/\text{NDF}: 235806.8/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $93.558 \pm 0.034$   $\chi^2/\text{NDF}: 330177.6/9$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

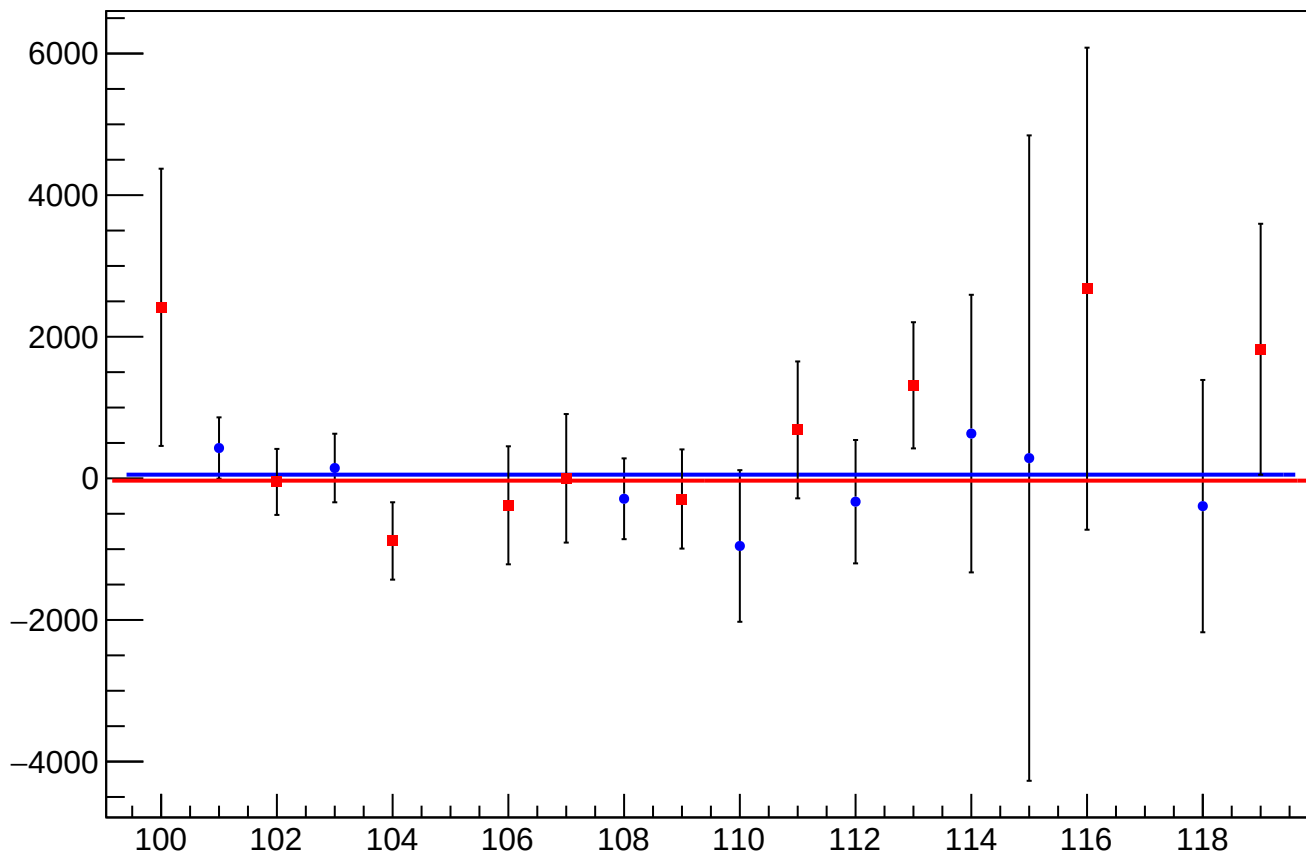
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $94.322 \pm 0.025$   $\chi^2/\text{NDF}: 567140.0/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$



# asym\_sam6\_cor\_correction\_mean vs Slug



Right In: 52.283+/-254.187  $\chi^2/\text{NDF}$ : 2.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32.224+/-252.886  $\chi^2/\text{NDF}$ : 8.9/9

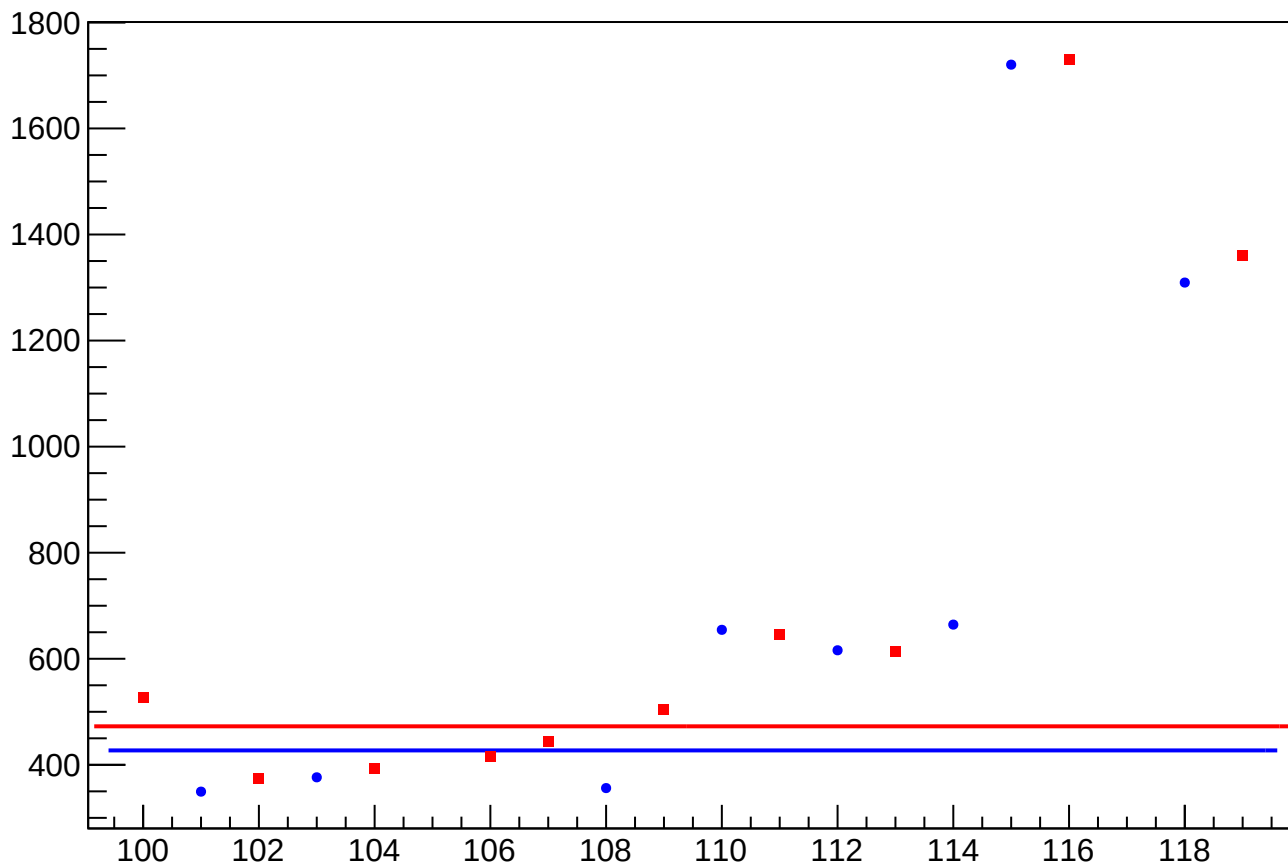
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.813+/-179.276  $\chi^2/\text{NDF}$ : 11.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_cor\_correction\_rms vs Slug



Right In: 427.196+/-0.180  $\chi^2/\text{NDF}$ : 981950.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 472.619+/-0.179  $\chi^2/\text{NDF}$ : 1035575.2/9

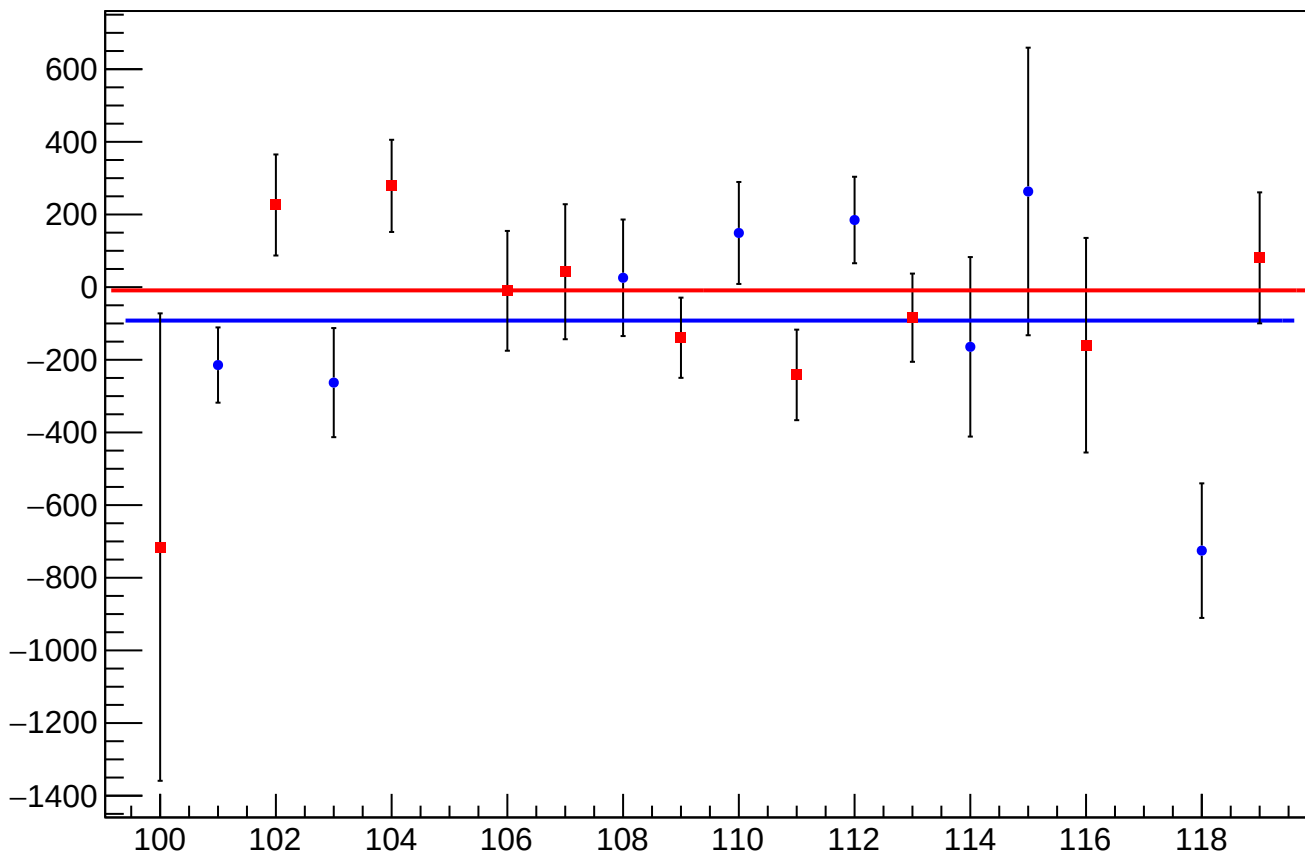
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 450.024+/-0.127  $\chi^2/\text{NDF}$ : 2049622.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam6\_mean vs Slug



Right In: -92.042 $\pm$ 53.480  $\chi^2$ /NDF: 24.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.931 $\pm$ 47.756  $\chi^2$ /NDF: 15.1/9

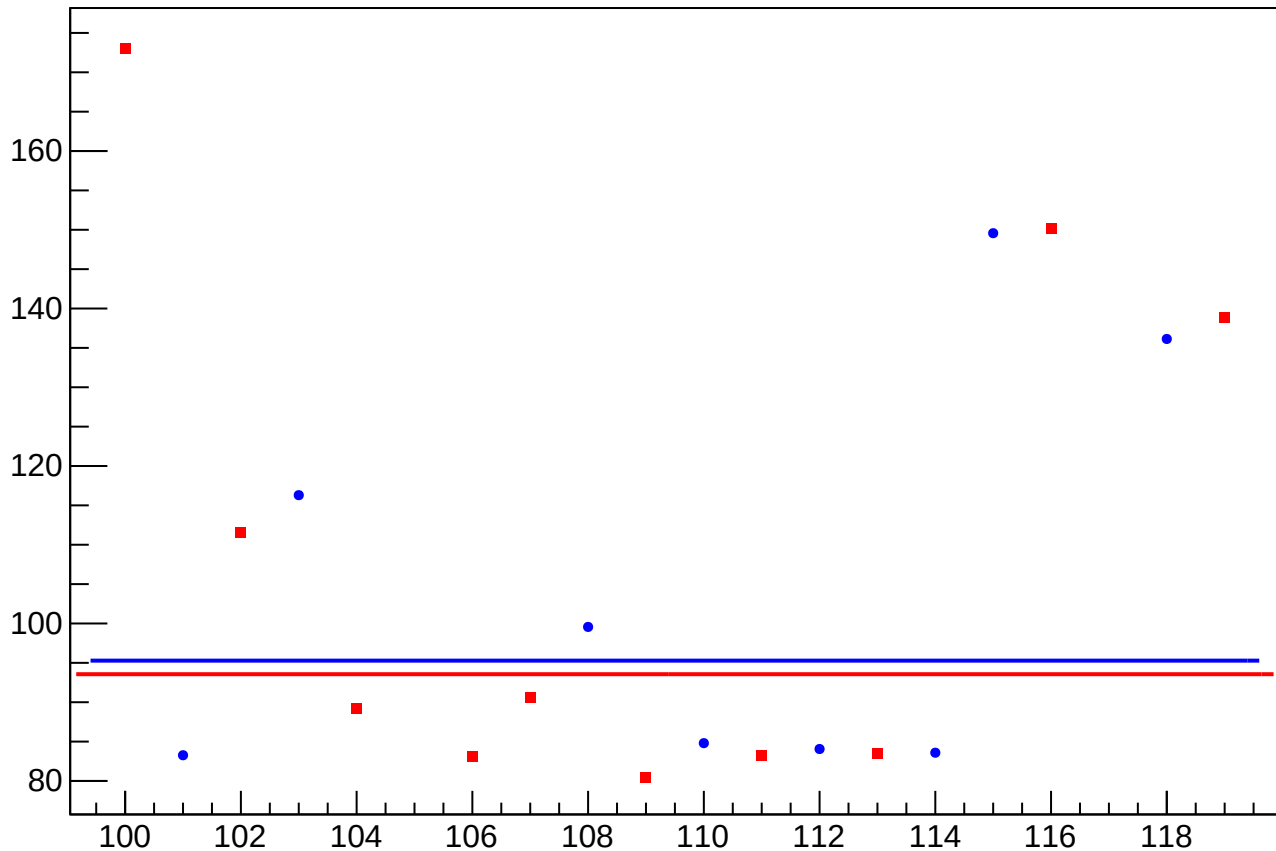
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -45.802 $\pm$ 35.621  $\chi^2$ /NDF: 40.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam6\_rms vs Slug



Right In: 95.281+/-0.038  $\chi^2/\text{NDF}$ : 235806.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 93.558+/-0.034  $\chi^2/\text{NDF}$ : 330177.6/9

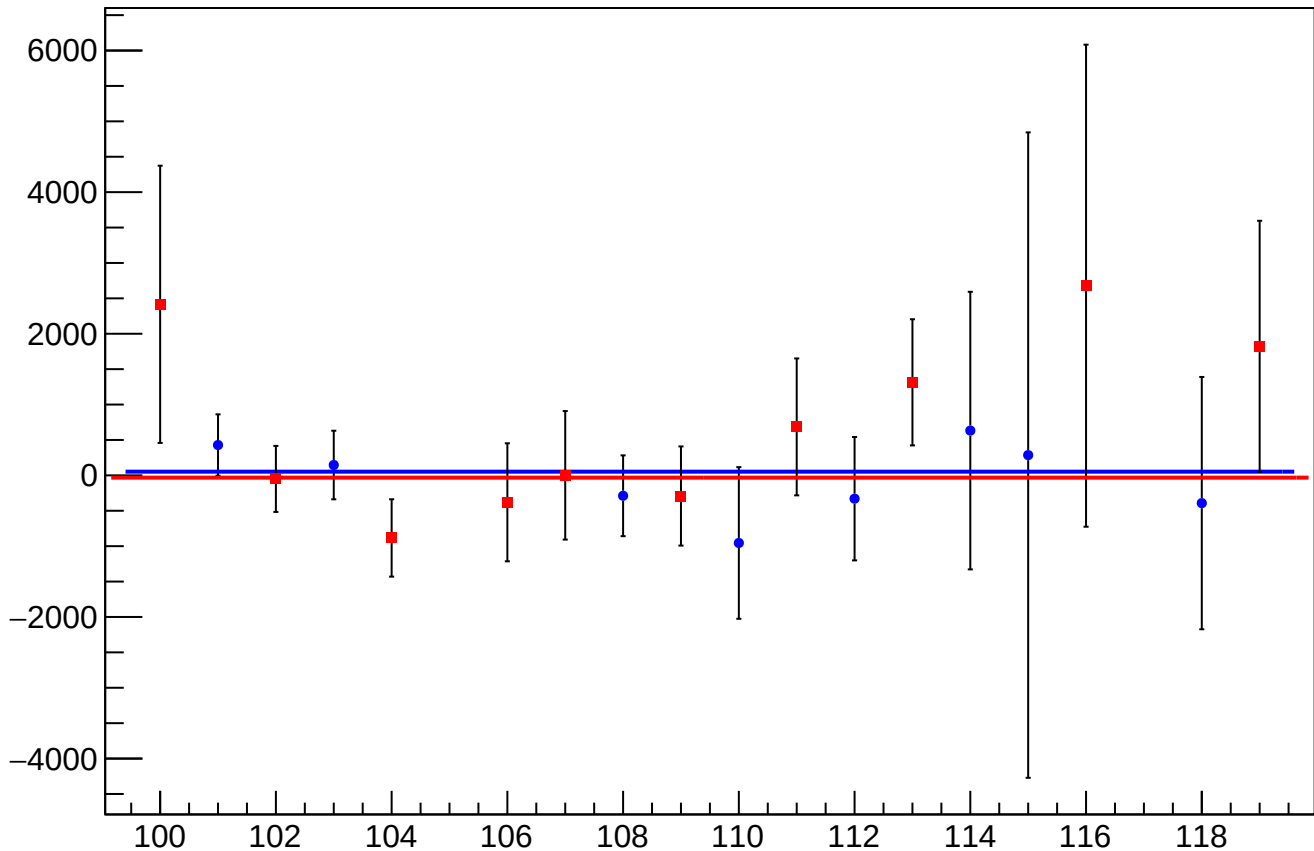
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.322+/-0.025  $\chi^2/\text{NDF}$ : 567140.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_eigen\_cor\_correction\_mean vs Slug



Right In: 52.283+/-254.187  $\chi^2/\text{NDF}$ : 2.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32.224+/-252.886  $\chi^2/\text{NDF}$ : 8.9/9

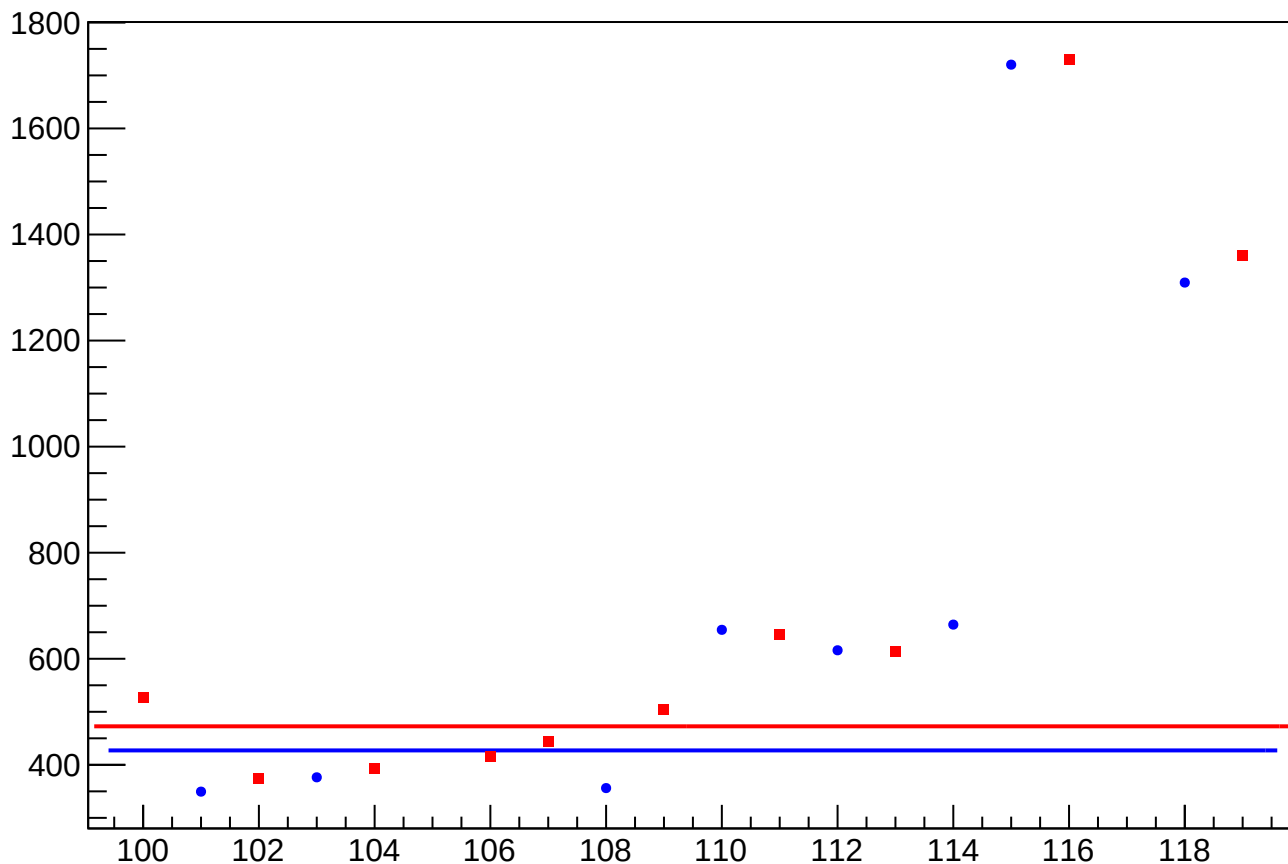
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.813+/-179.276  $\chi^2/\text{NDF}$ : 11.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_eigen\_cor\_correction\_rms vs Slug



Right In: 427.196+/-0.180  $\chi^2/\text{NDF}$ : 981950.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 472.619+/-0.179  $\chi^2/\text{NDF}$ : 1035575.2/9

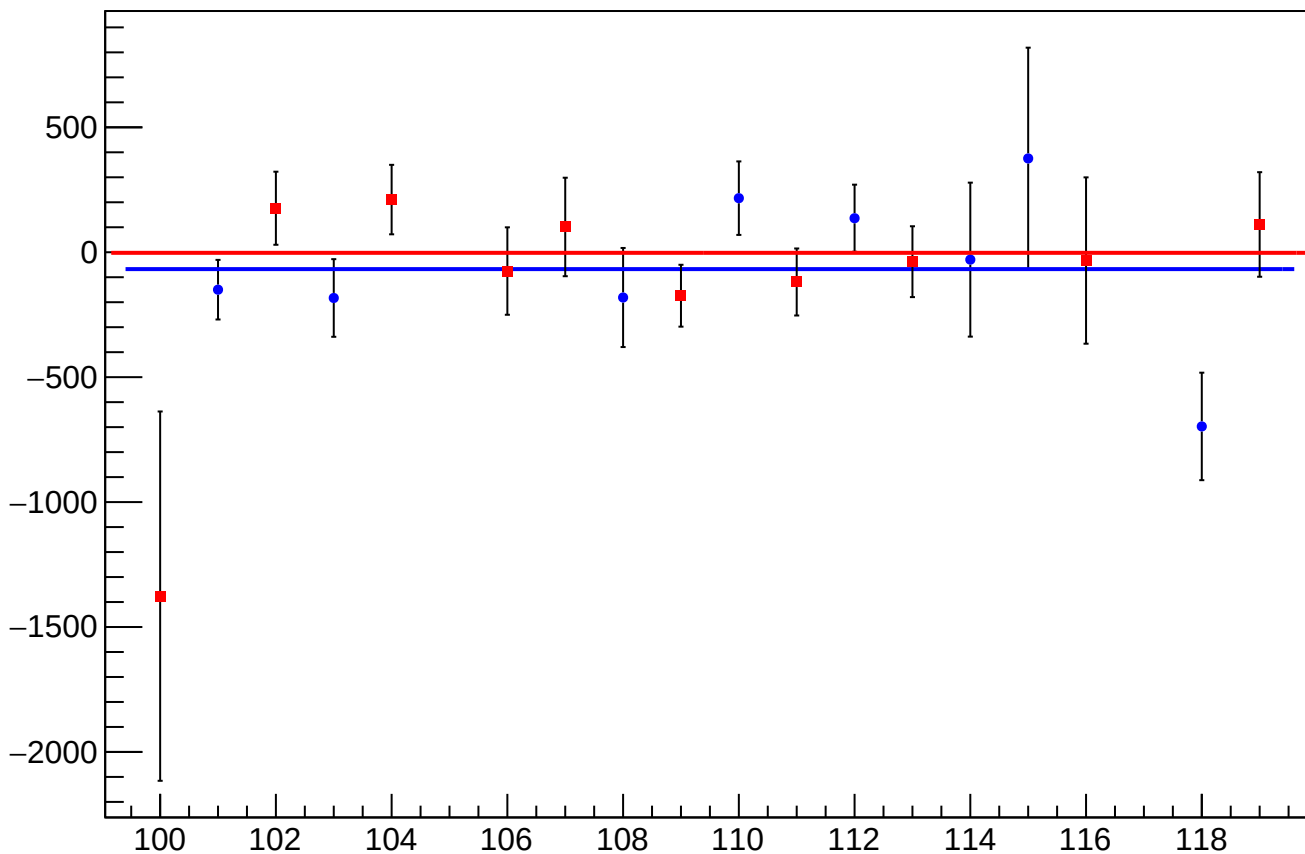
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 450.024+/-0.127  $\chi^2/\text{NDF}$ : 2049622.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam6\_mean vs Slug



Right In: -67.507 $\pm$ 60.189  $\chi^2$ /NDF: 17.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.343 $\pm$ 52.622  $\chi^2$ /NDF: 10.8/9

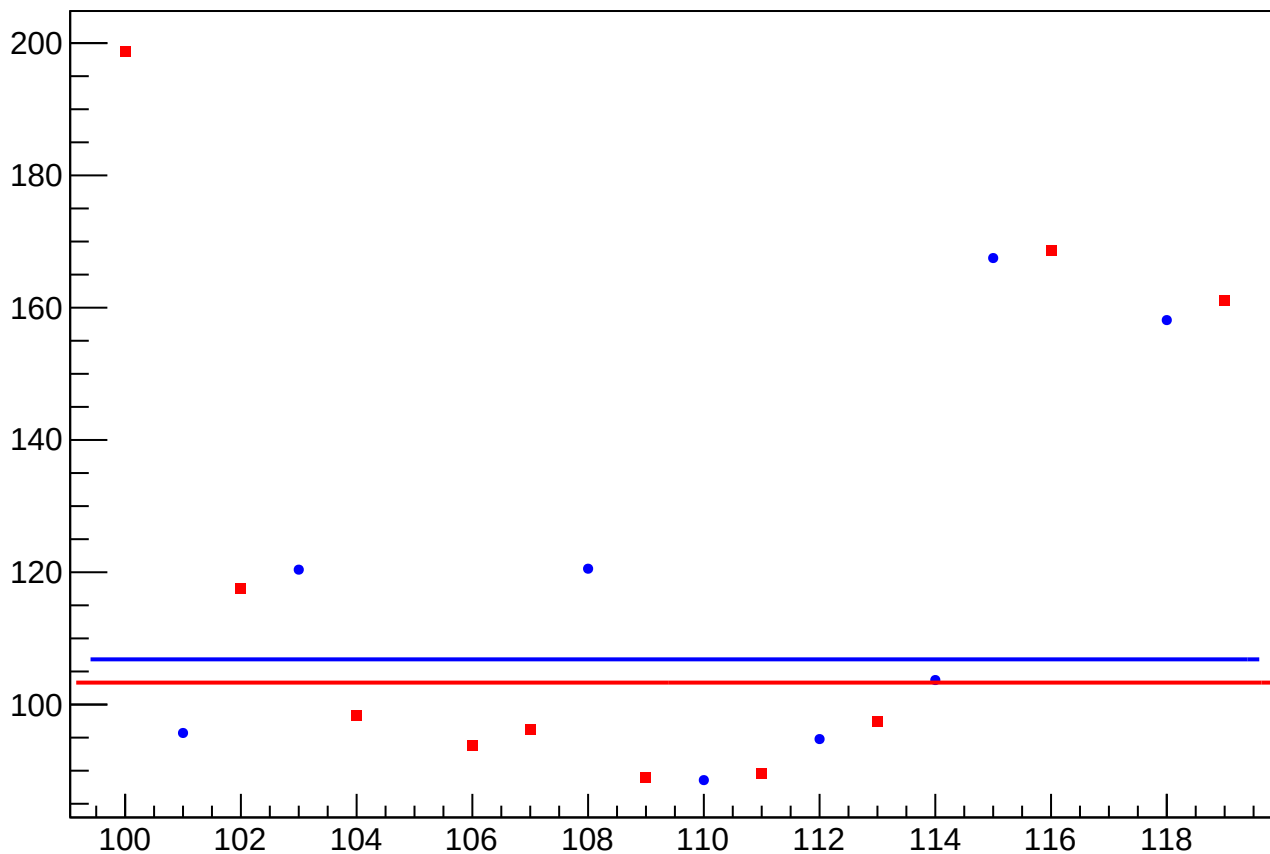
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -30.574 $\pm$ 39.616  $\chi^2$ /NDF: 28.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam6\_rms vs Slug



Right In: 106.832 $\pm$ 0.043  $\chi^2$ /NDF: 240483.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.317 $\pm$ 0.037  $\chi^2$ /NDF: 343998.5/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

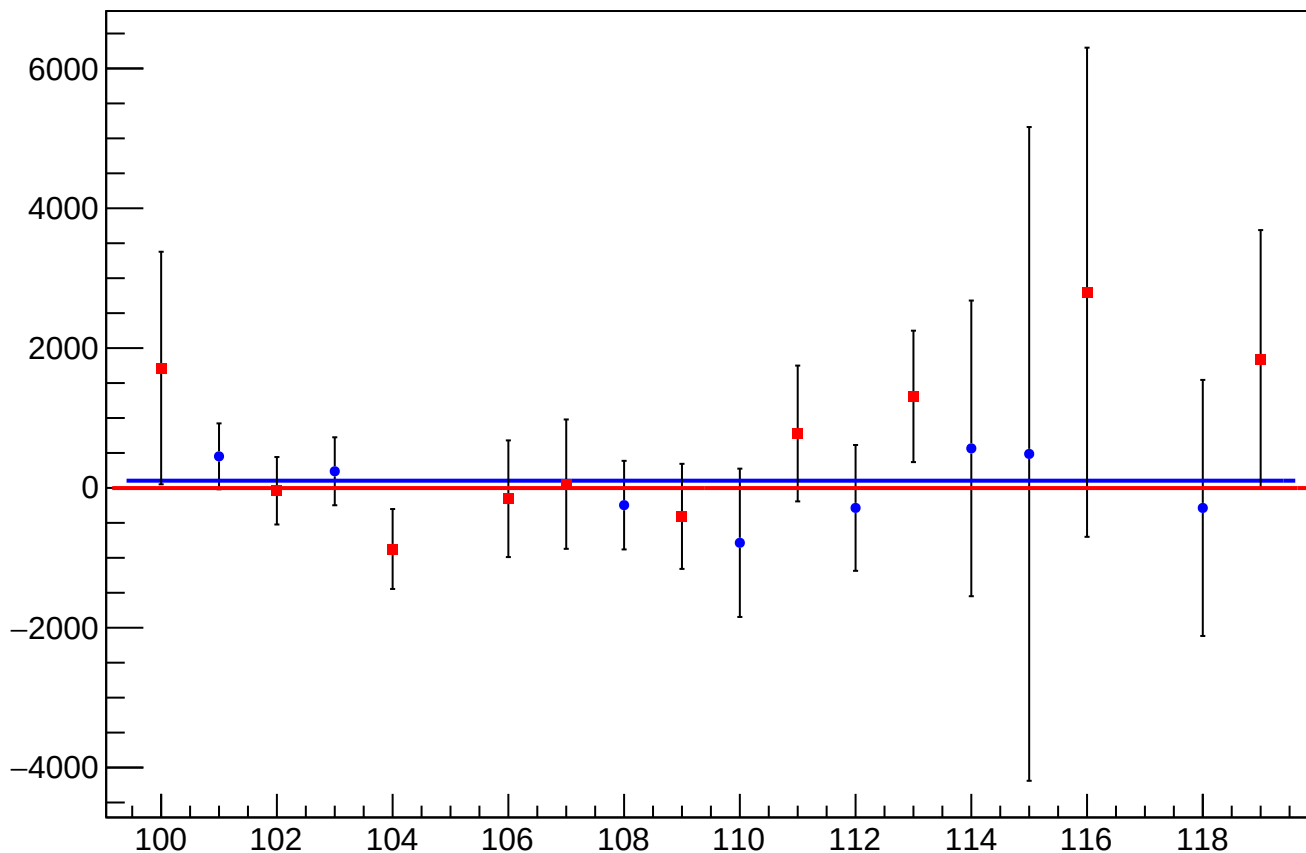
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 104.840 $\pm$ 0.028  $\chi^2$ /NDF: 588347.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam6\_dit\_correction\_mean vs Slug



Right In: 103.338 $\pm$ 268.102  $\chi^2$ /NDF: 1.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.242 $\pm$ 261.210  $\chi^2$ /NDF: 8.0/9

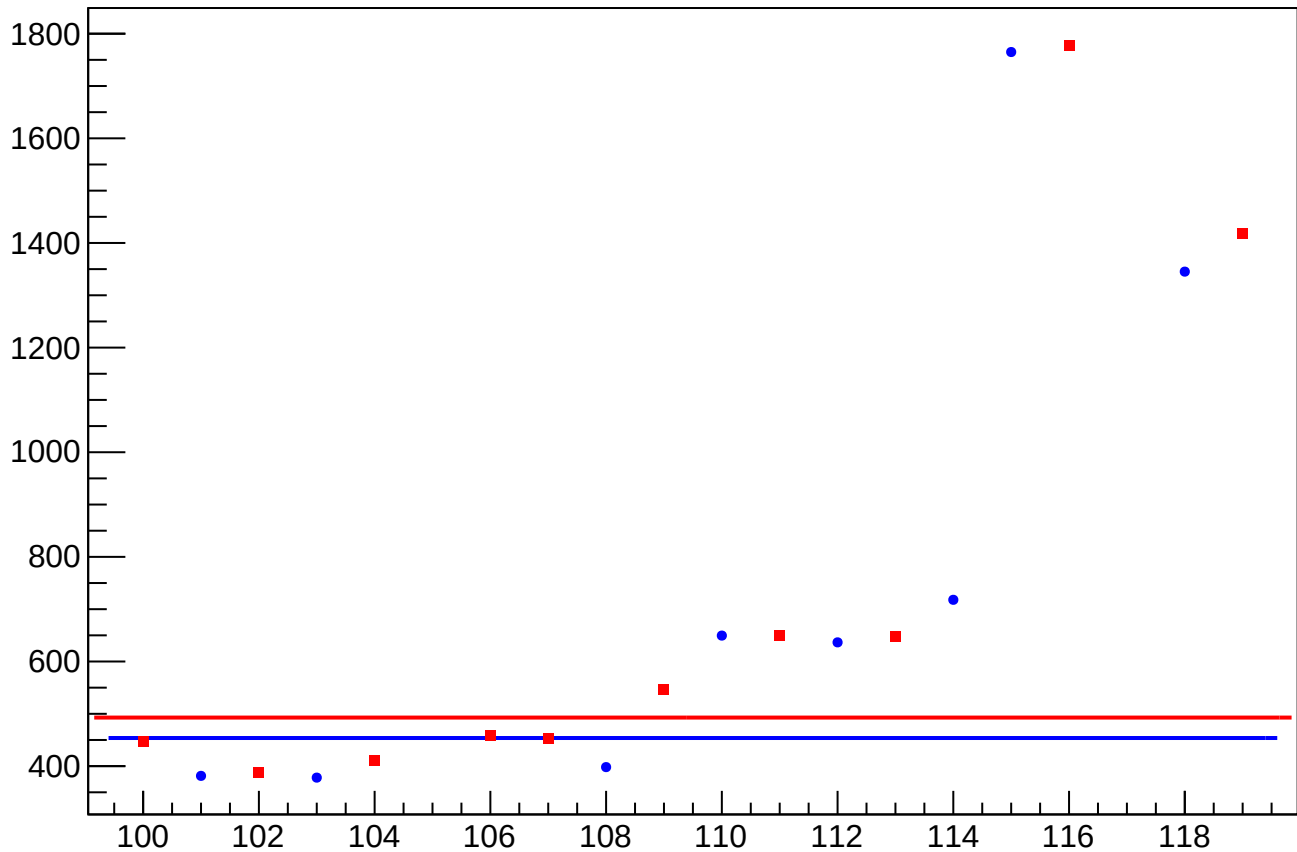
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 49.173 $\pm$ 187.092  $\chi^2$ /NDF: 9.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_dit\_correction\_rms vs Slug



Right In: 453.761 $\pm$ 0.190  $\chi^2$ /NDF: 924050.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 492.832 $\pm$ 0.185  $\chi^2$ /NDF: 1030776.7/9

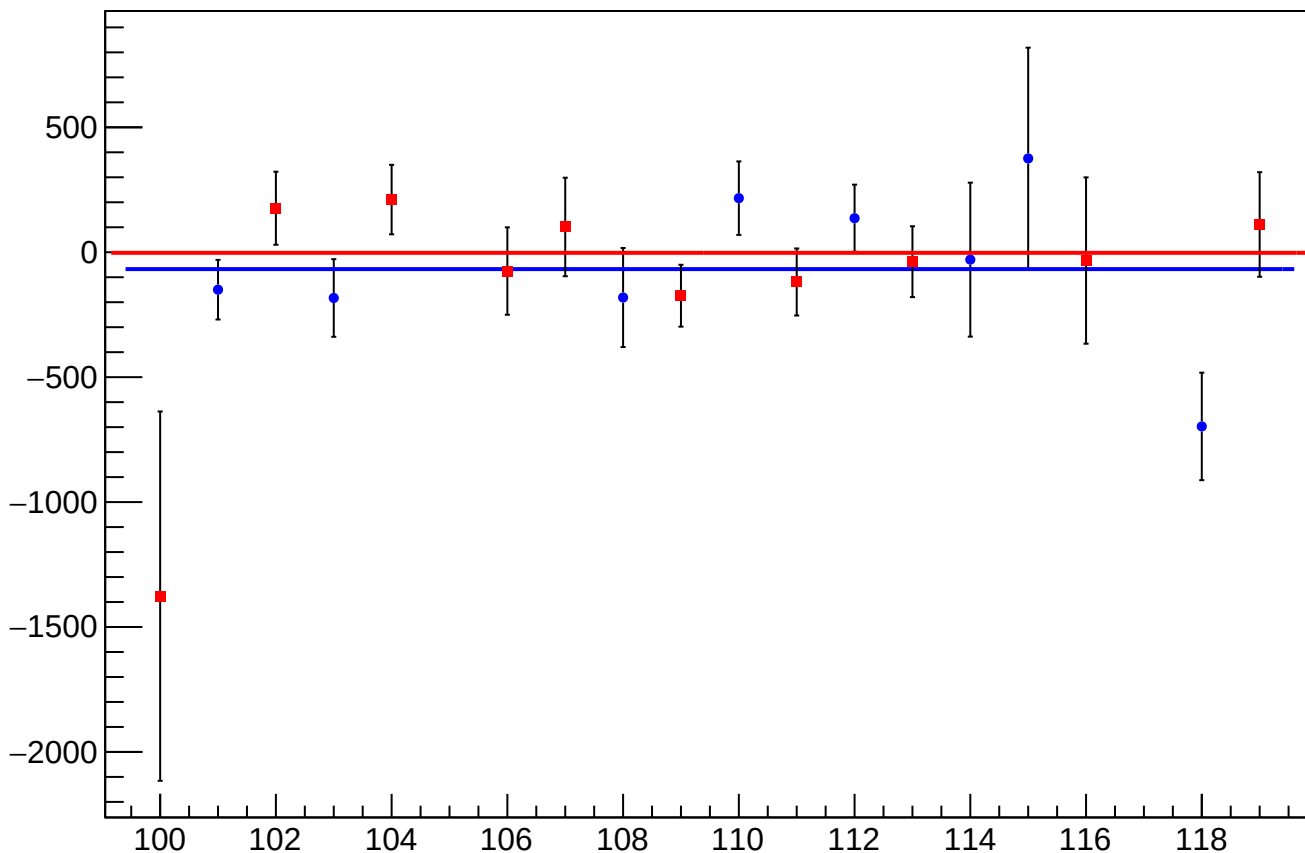
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 473.805 $\pm$ 0.132  $\chi^2$ /NDF: 1976618.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam6\_mean vs Slug



Right In: -67.508 $\pm$ 60.189  $\chi^2$ /NDF: 17.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.345 $\pm$ 52.622  $\chi^2$ /NDF: 10.8/9

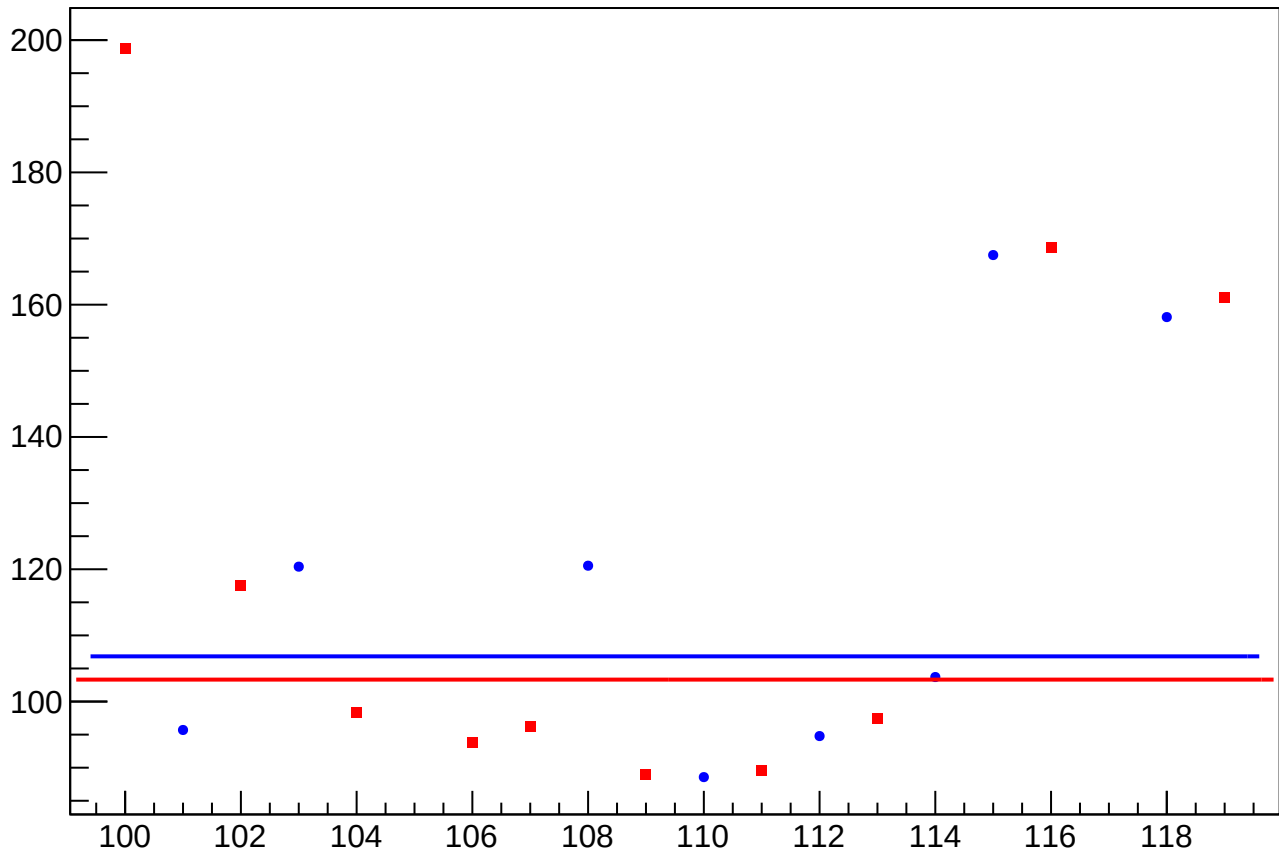
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -30.575 $\pm$ 39.616  $\chi^2$ /NDF: 28.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam6\_rms vs Slug



Right In: 106.832 $\pm$ 0.043  $\chi^2$ /NDF: 240485.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.317 $\pm$ 0.037  $\chi^2$ /NDF: 343998.6/9

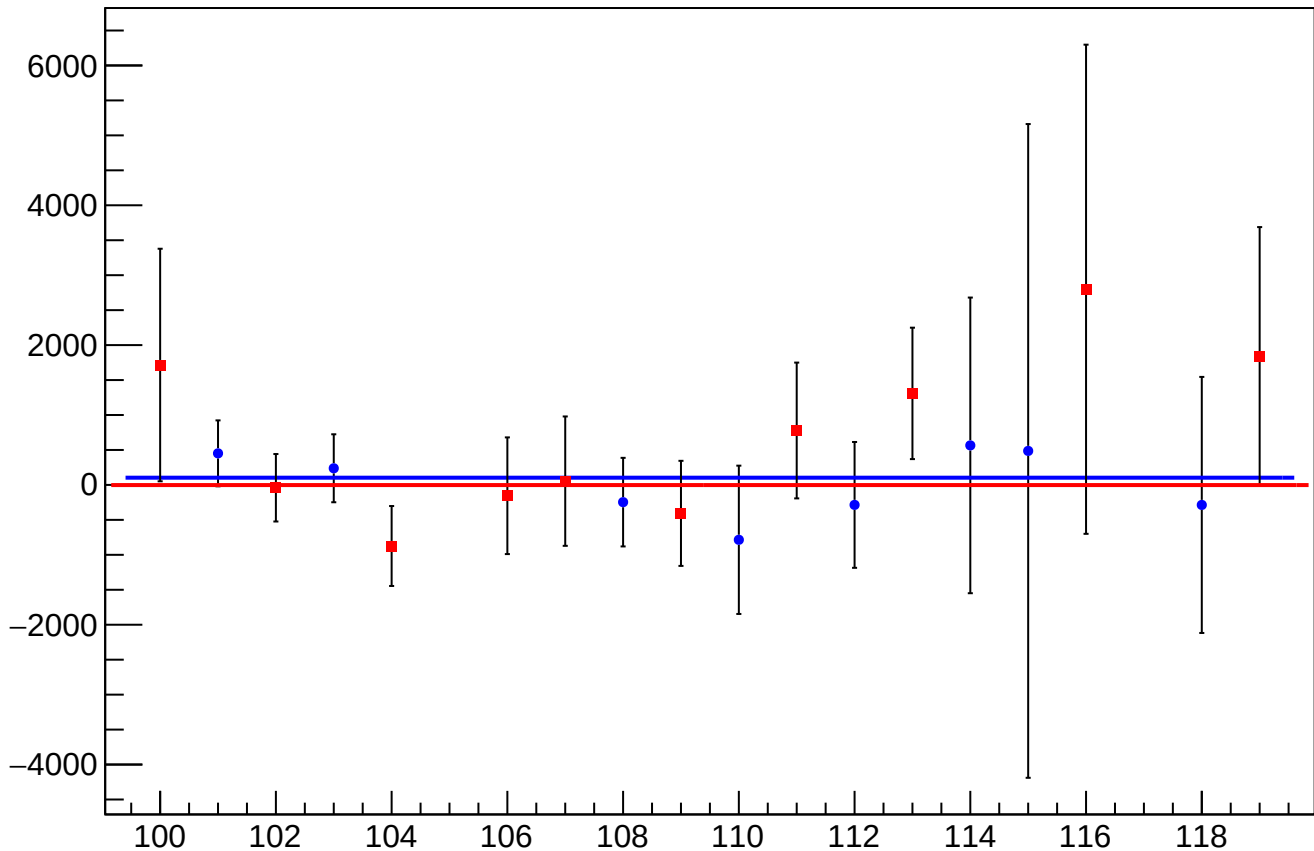
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 104.840 $\pm$ 0.028  $\chi^2$ /NDF: 588349.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_eigen\_dit\_correction\_mean vs Slug



Right In: 103.338 $\pm$ 268.102  $\chi^2$ /NDF: 1.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.244 $\pm$ 261.210  $\chi^2$ /NDF: 8.0/9

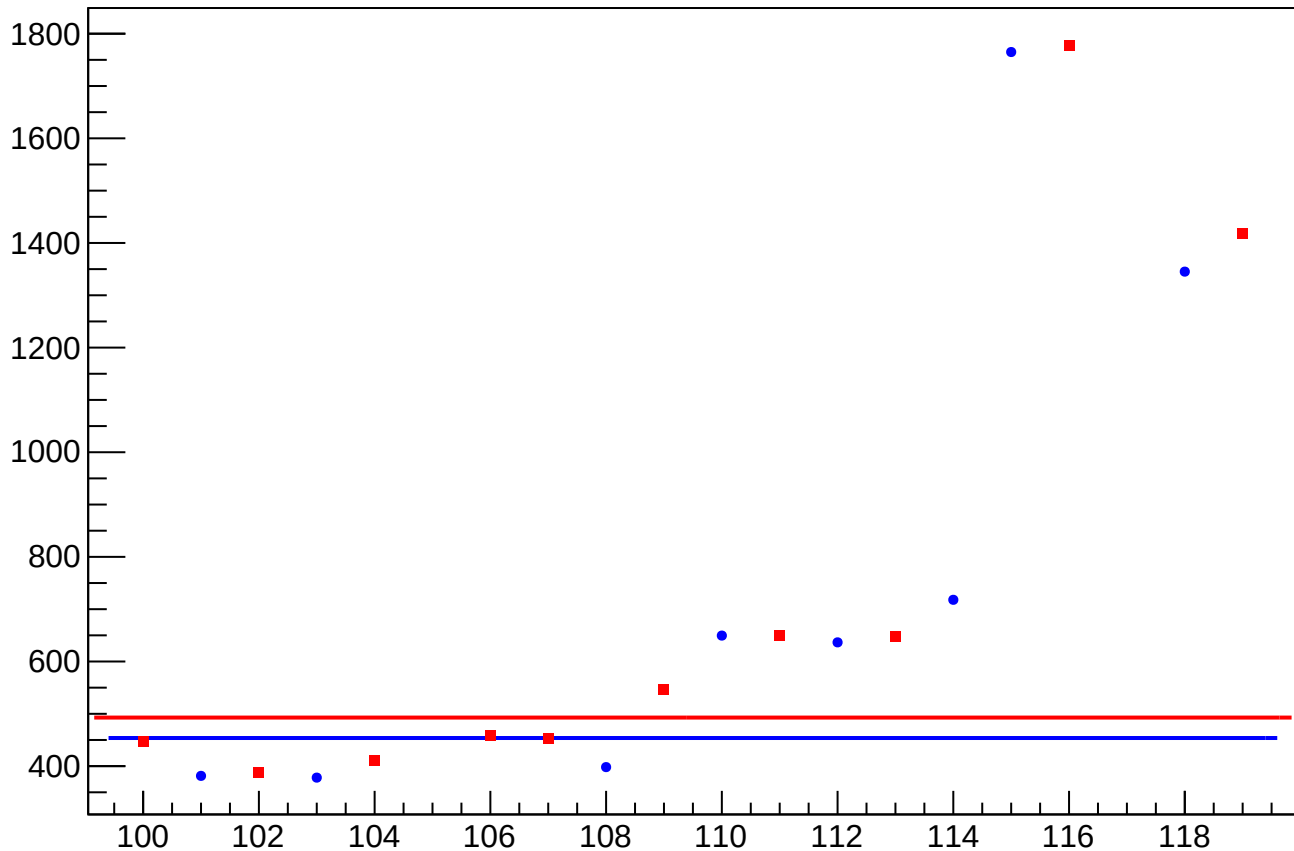
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 49.172 $\pm$ 187.092  $\chi^2$ /NDF: 9.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_eigen\_dit\_correction\_rms vs Slug



Right In: 453.760+/-0.190  $\chi^2/\text{NDF}$ : 924053.2/7

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

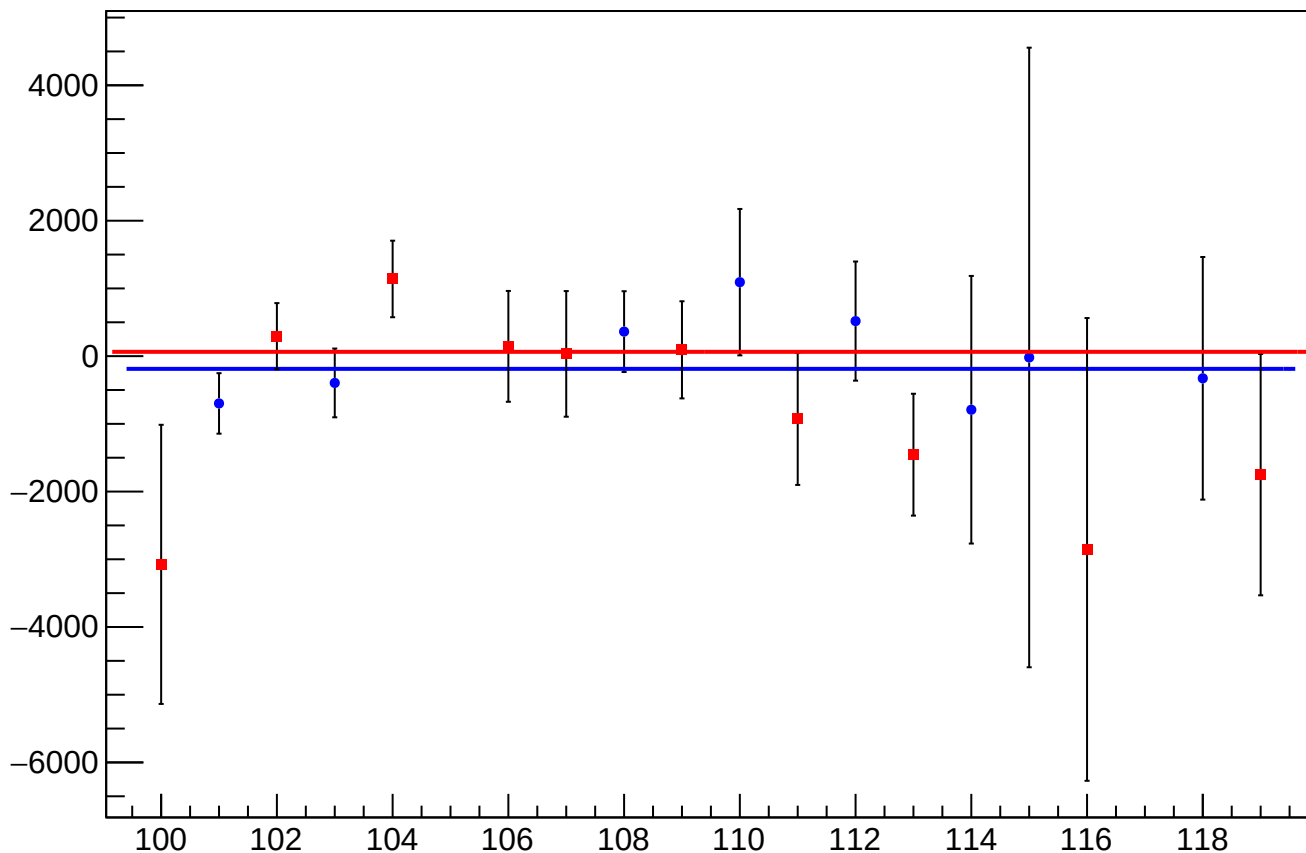
Right Out: 492.832+/-0.185  $\chi^2/\text{NDF}$ : 1030776.8/9

All: 473.805+/-0.132  $\chi^2/\text{NDF}$ : 1976621.3/17

- 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\_sam6\_mean vs Slug



Right In: -187.750+/-262.953  $\chi^2/\text{NDF}$ : 4.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 63.730+/-259.543  $\chi^2/\text{NDF}$ : 11.8/9

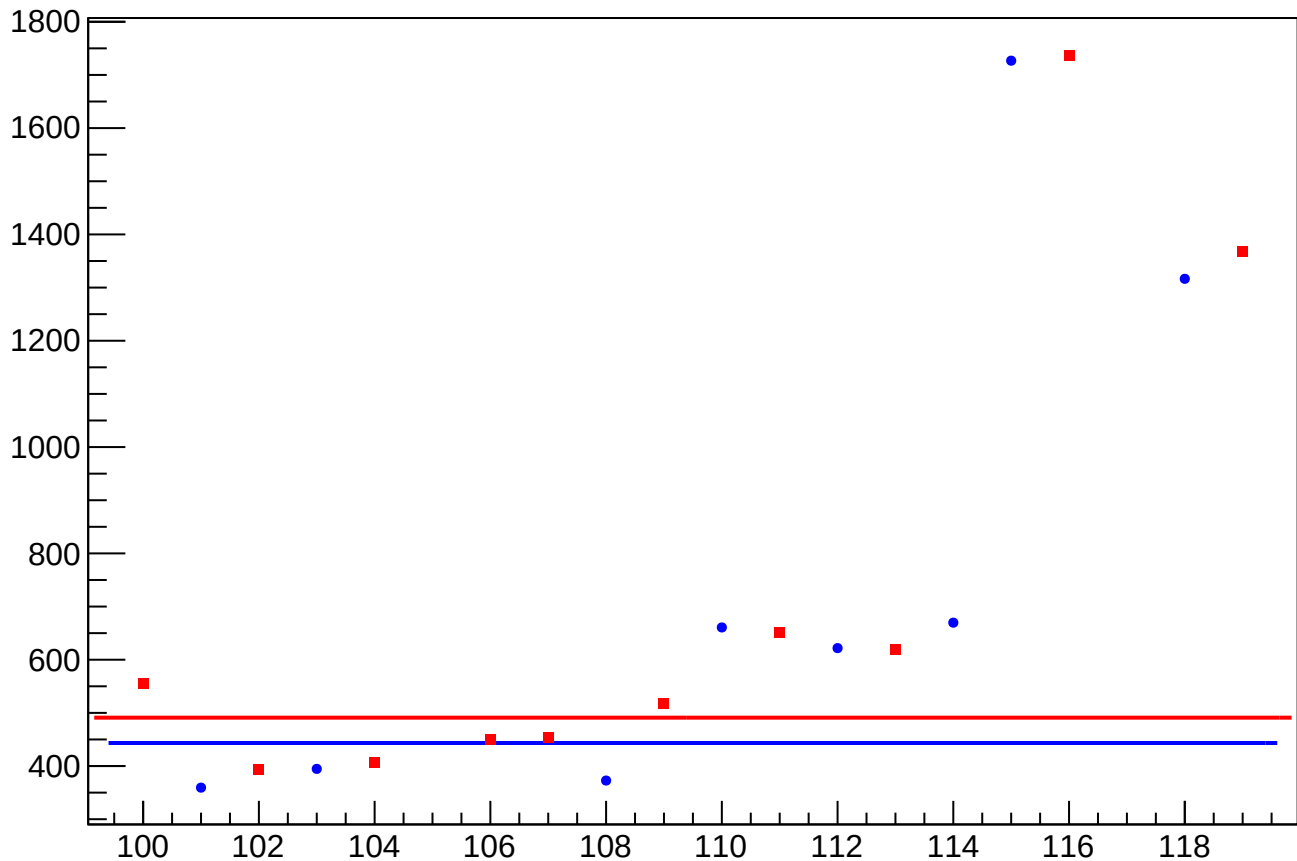
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -60.369+/-184.718  $\chi^2/\text{NDF}$ : 16.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_rms vs Slug



Right In: 443.359+/-0.186  $\chi^2/\text{NDF}$ : 939015.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 491.022+/-0.184  $\chi^2/\text{NDF}$ : 982307.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

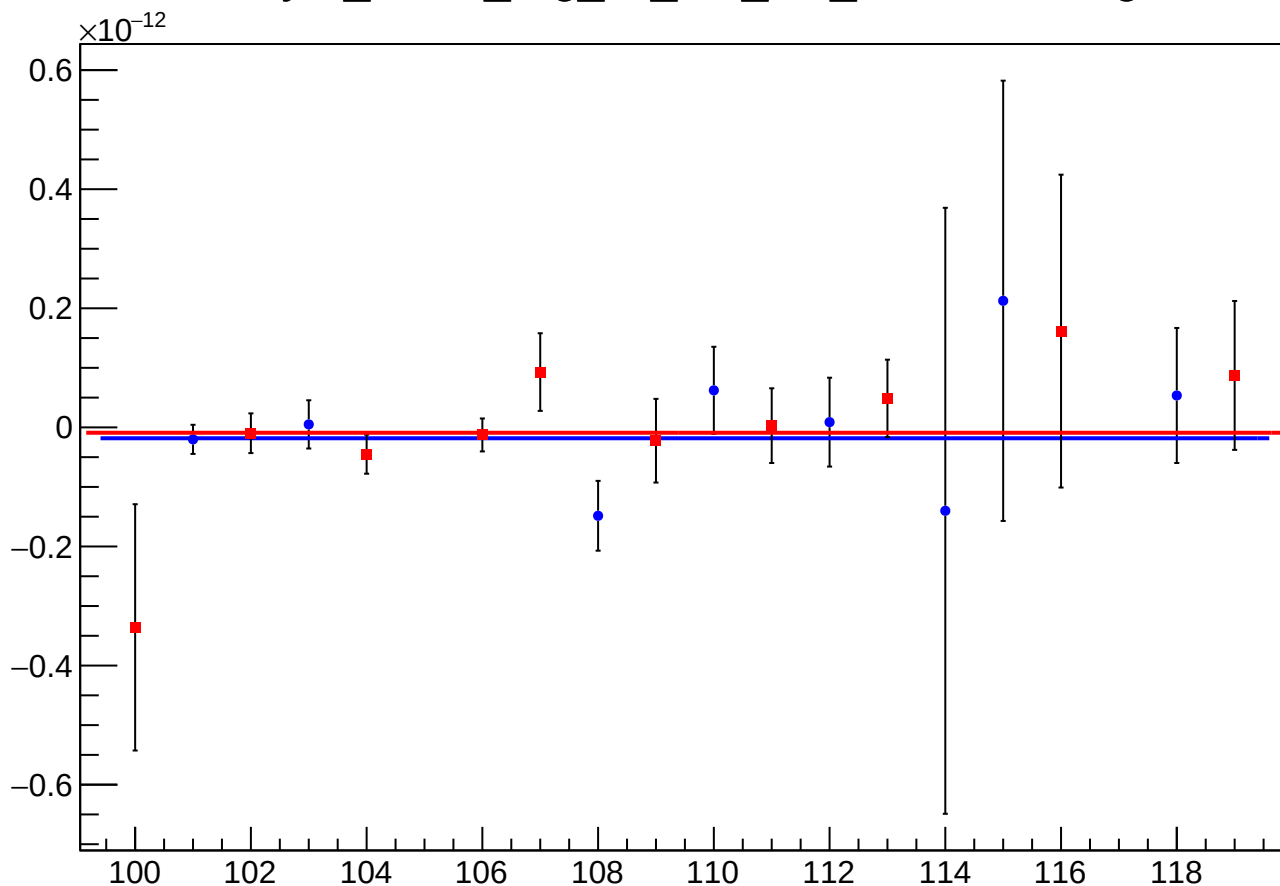
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 467.501+/-0.131  $\chi^2/\text{NDF}$ : 1954606.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam6\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.0/9

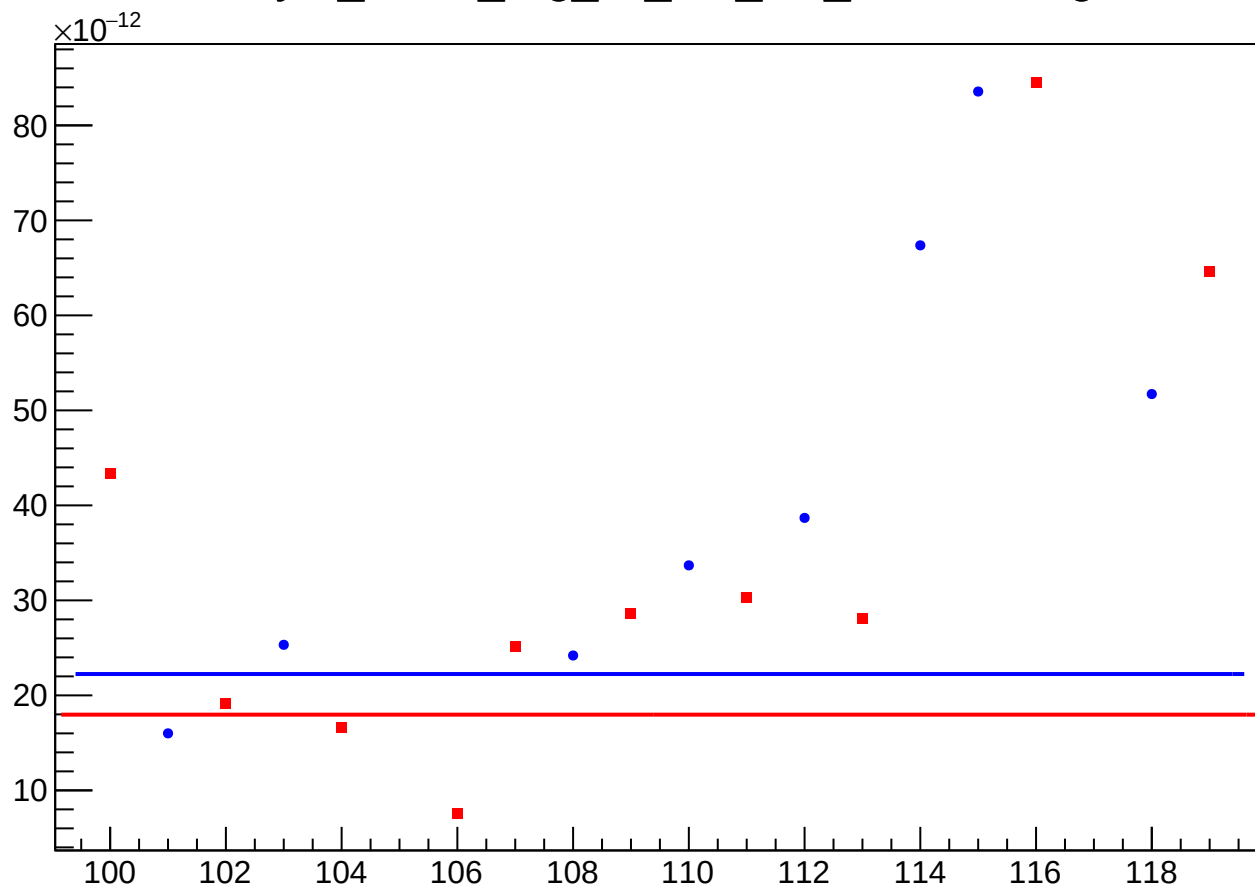
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.6/17

- 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  $\chi^2/\text{NDF}$ : 496061.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 921466.6/9

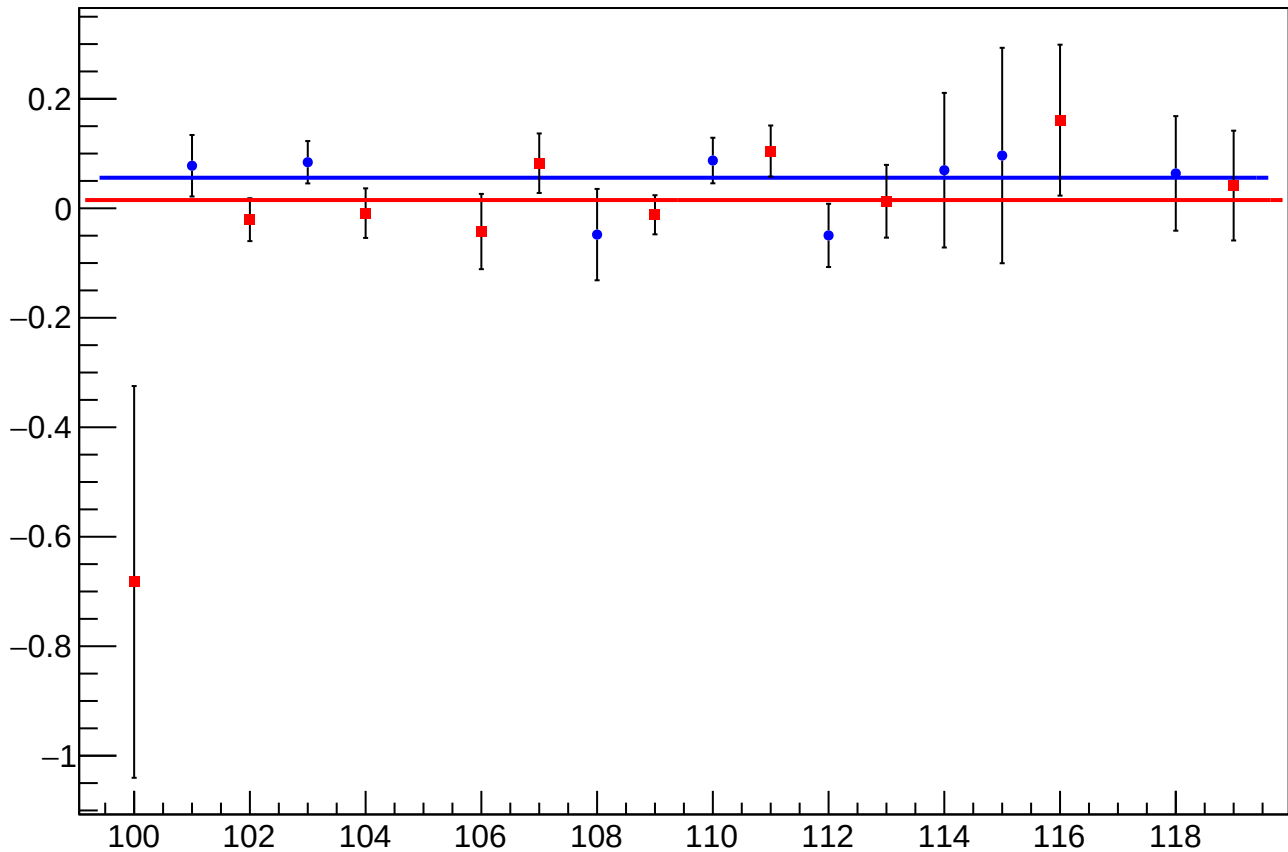
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1481643.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.056 $\pm$ 0.021  $\chi^2$ /NDF: 6.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.015 $\pm$ 0.017  $\chi^2$ /NDF: 12.6/9

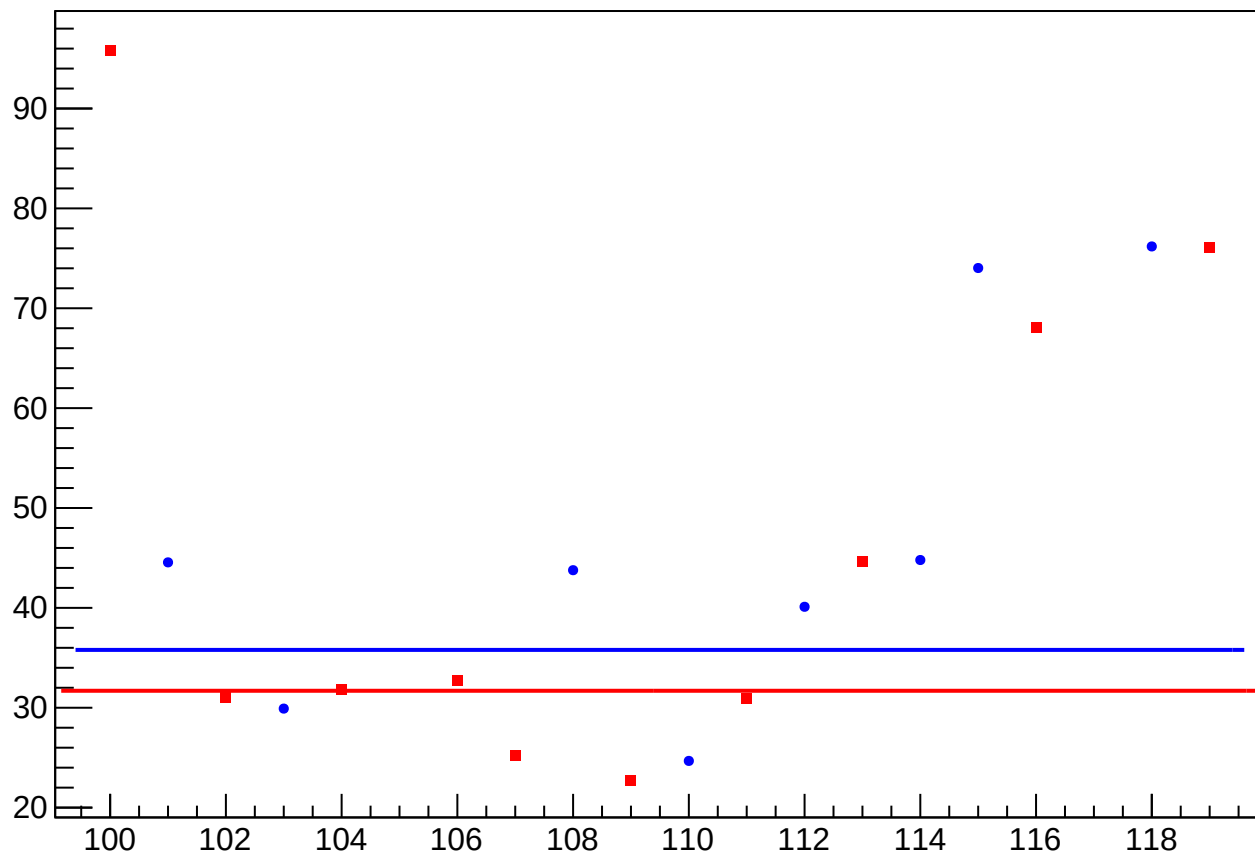
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.013  $\chi^2$ /NDF: 21.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 35.791 $\pm$ 0.015  $\chi^2$ /NDF: 648614.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 31.699 $\pm$ 0.012  $\chi^2$ /NDF: 827220.1/9

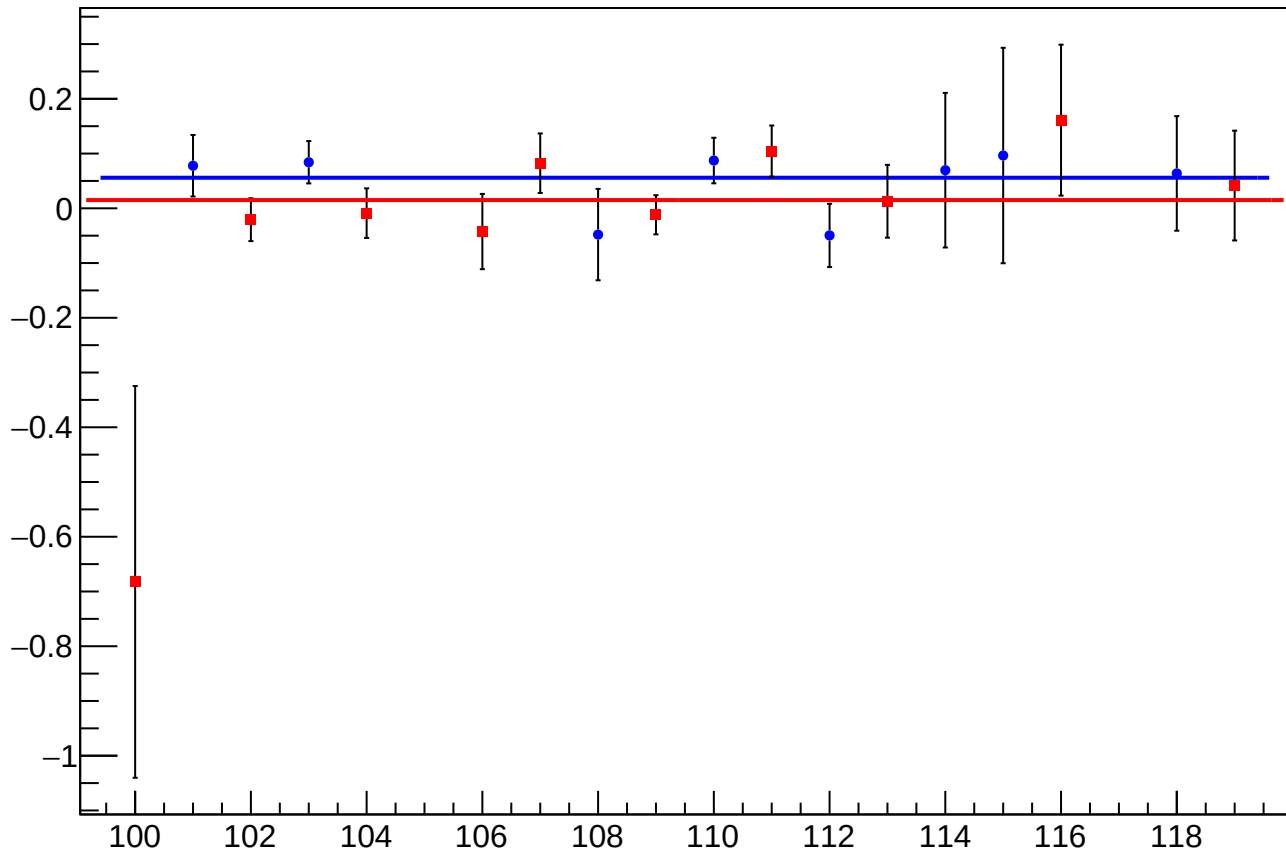
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.319 $\pm$ 0.010  $\chi^2$ /NDF: 1519802.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.056 $\pm$ 0.021  $\chi^2$ /NDF: 6.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.015 $\pm$ 0.017  $\chi^2$ /NDF: 12.6/9

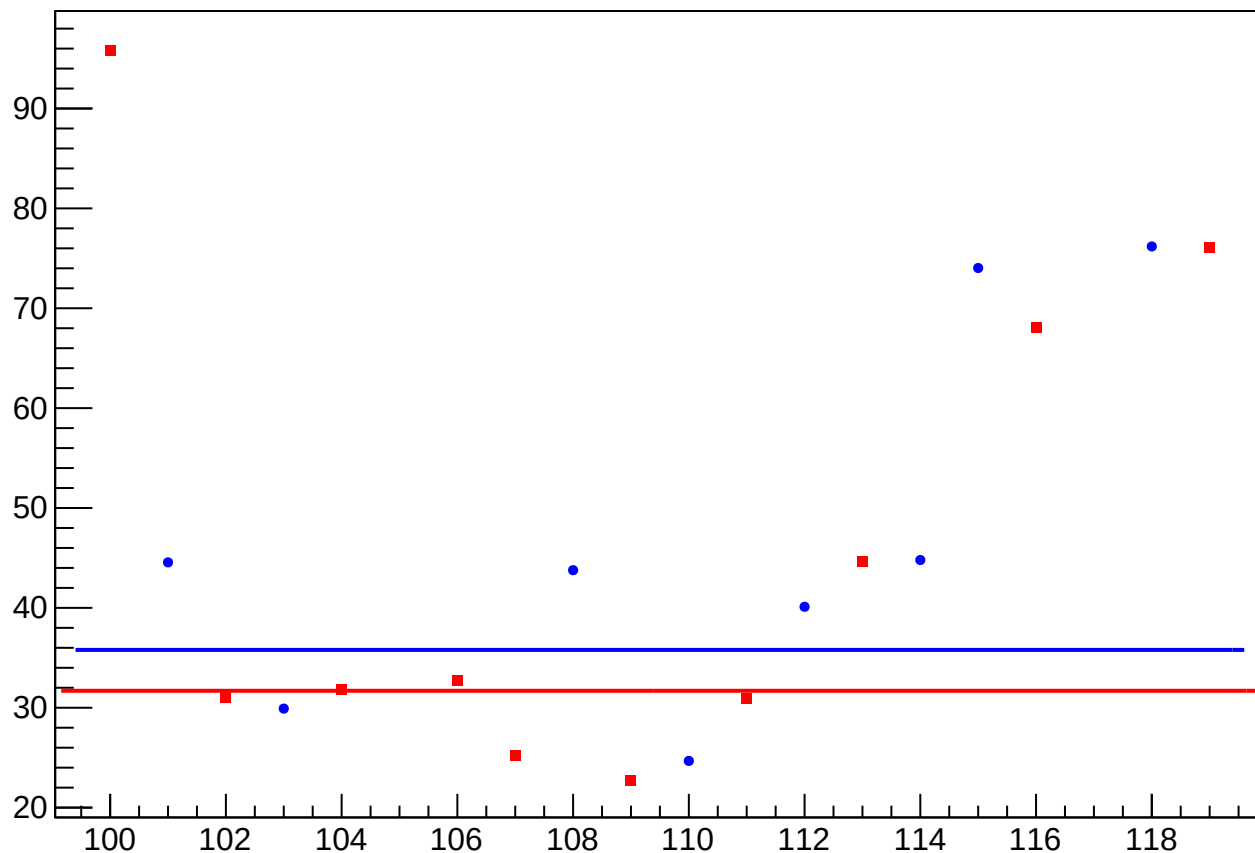
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.013  $\chi^2$ /NDF: 21.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 35.791+/-0.015  $\chi^2/\text{NDF}$ : 648614.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.699+/-0.012  $\chi^2/\text{NDF}$ : 827220.1/9

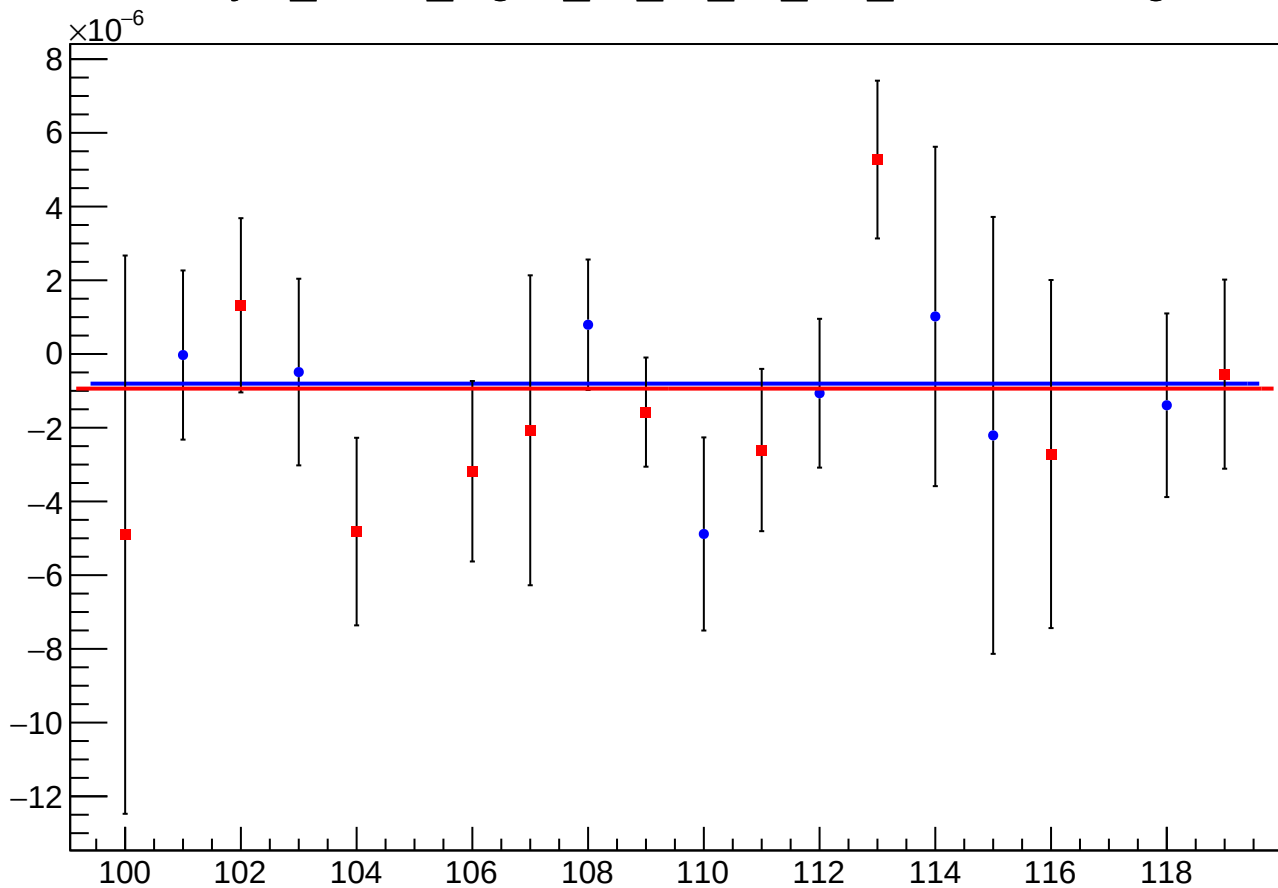
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.319+/-0.010  $\chi^2/\text{NDF}$ : 1519802.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 3.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 13.8/9

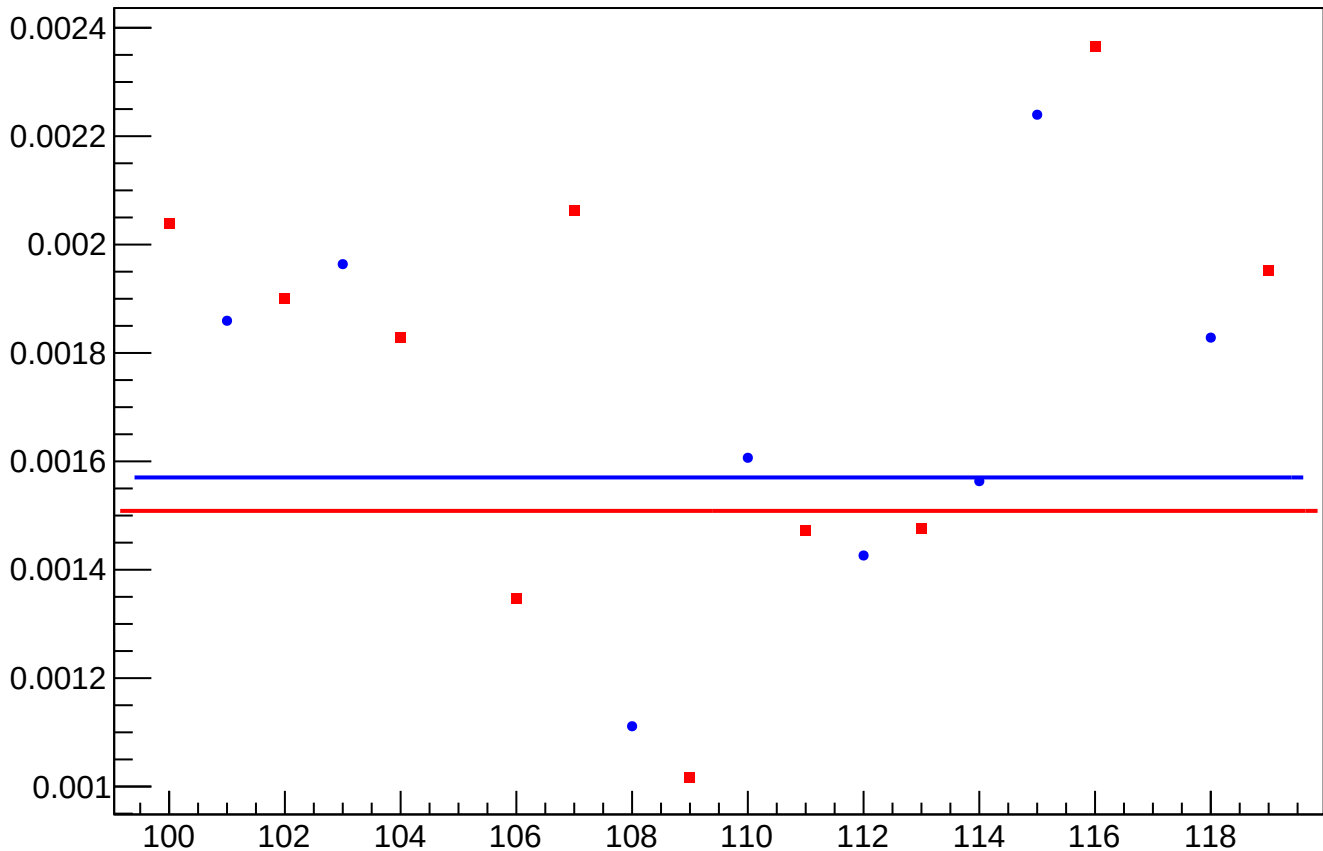
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 17.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 272179.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 486678.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

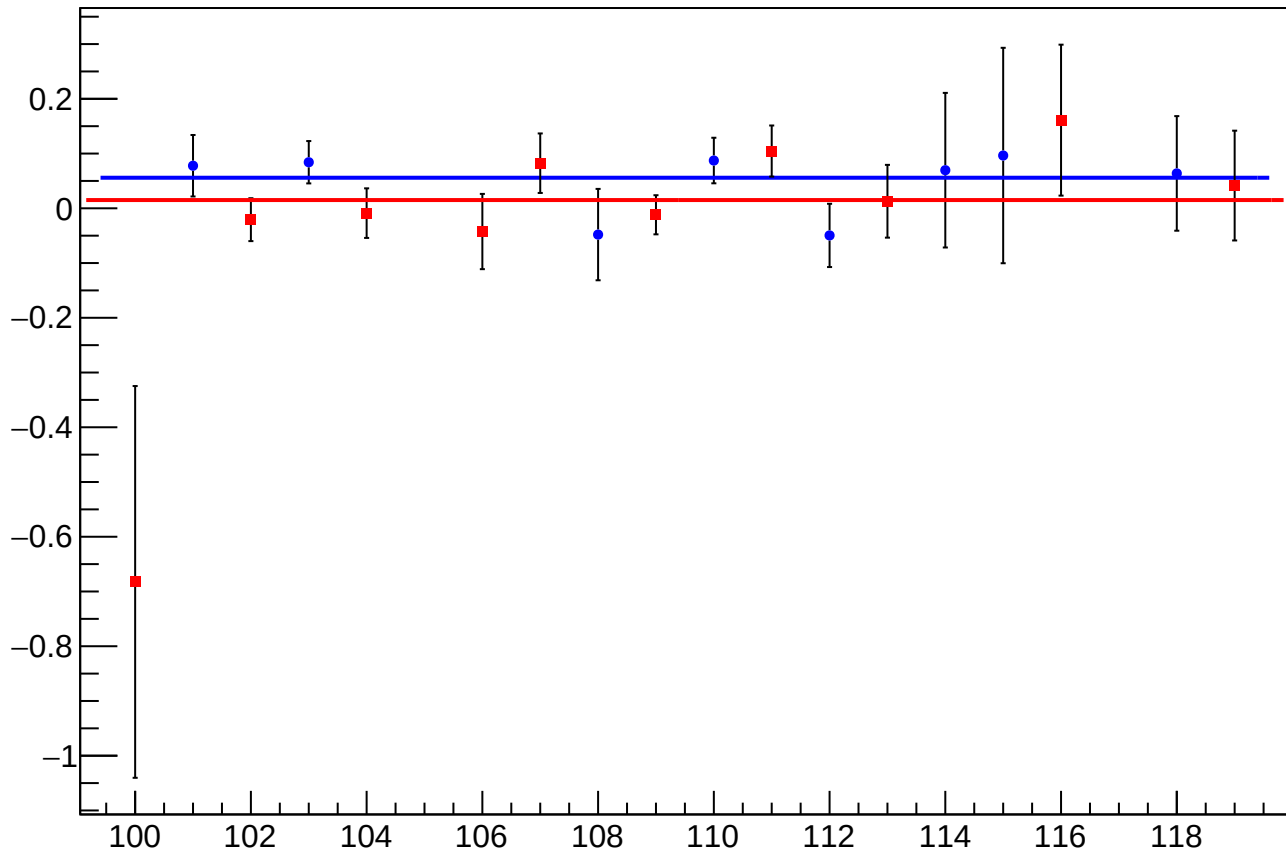
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 764376.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam6\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.056 $\pm$ 0.021  $\chi^2$ /NDF: 6.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.015 $\pm$ 0.017  $\chi^2$ /NDF: 12.6/9

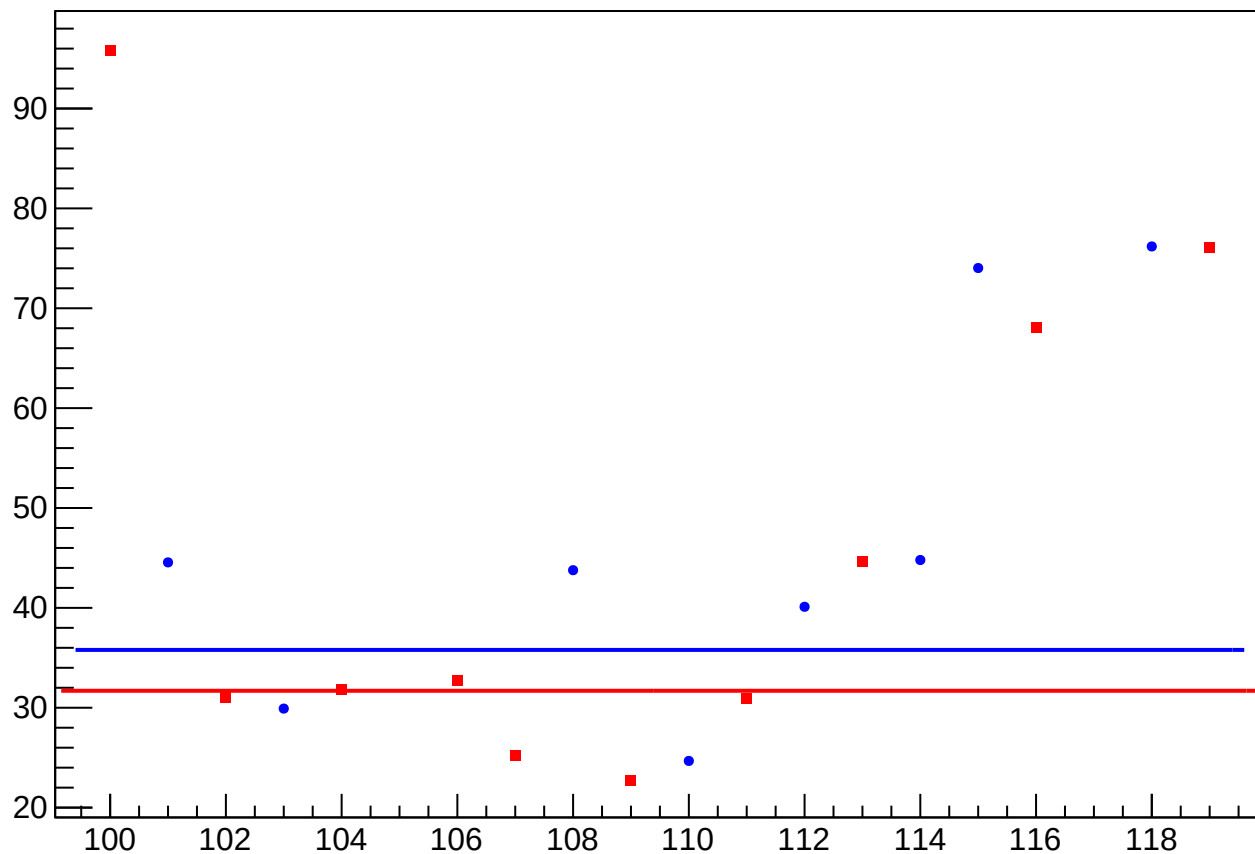
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.013  $\chi^2$ /NDF: 21.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 35.791+/-0.015  $\chi^2/\text{NDF}$ : 648618.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.699+/-0.012  $\chi^2/\text{NDF}$ : 827217.9/9

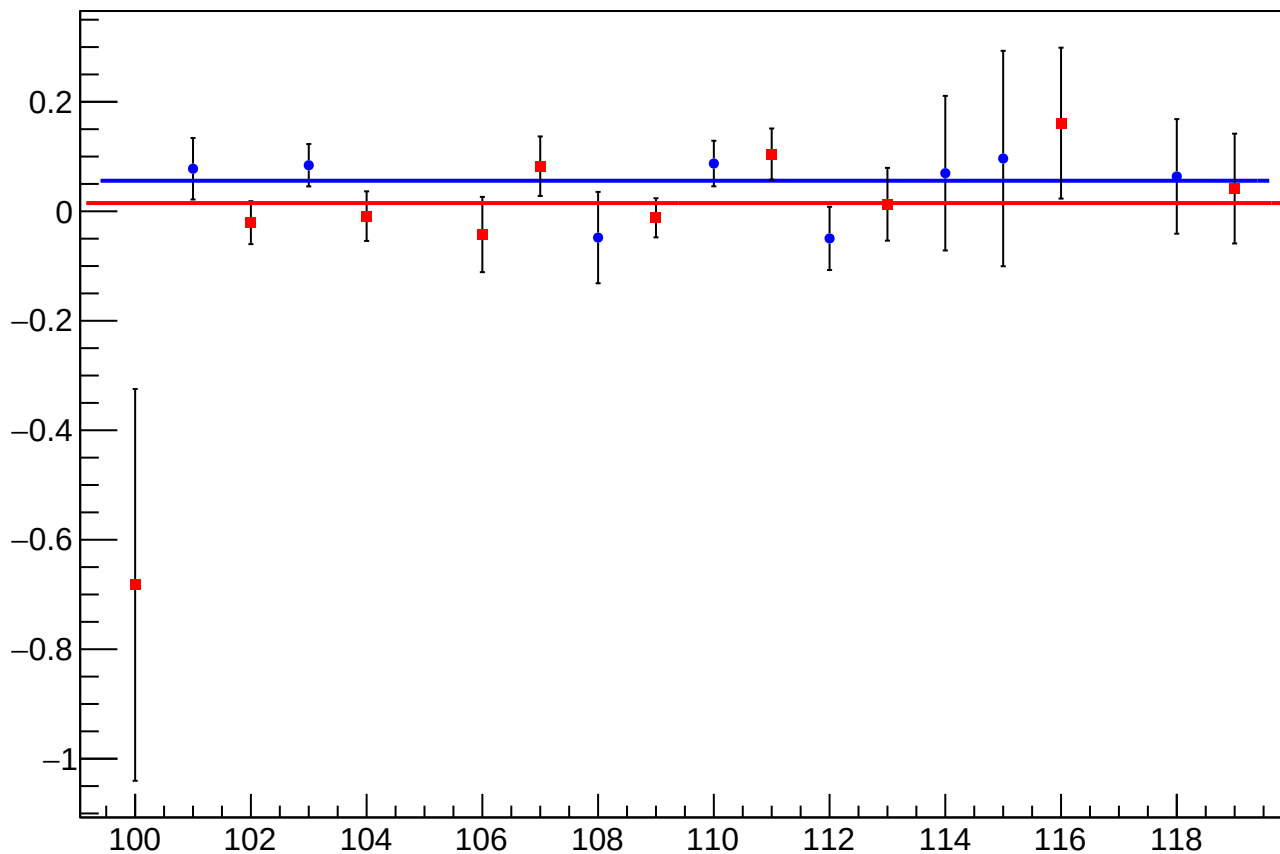
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.318+/-0.010  $\chi^2/\text{NDF}$ : 1519800.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam6\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.056 $\pm$ 0.021  $\chi^2$ /NDF: 6.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.015 $\pm$ 0.017  $\chi^2$ /NDF: 12.6/9

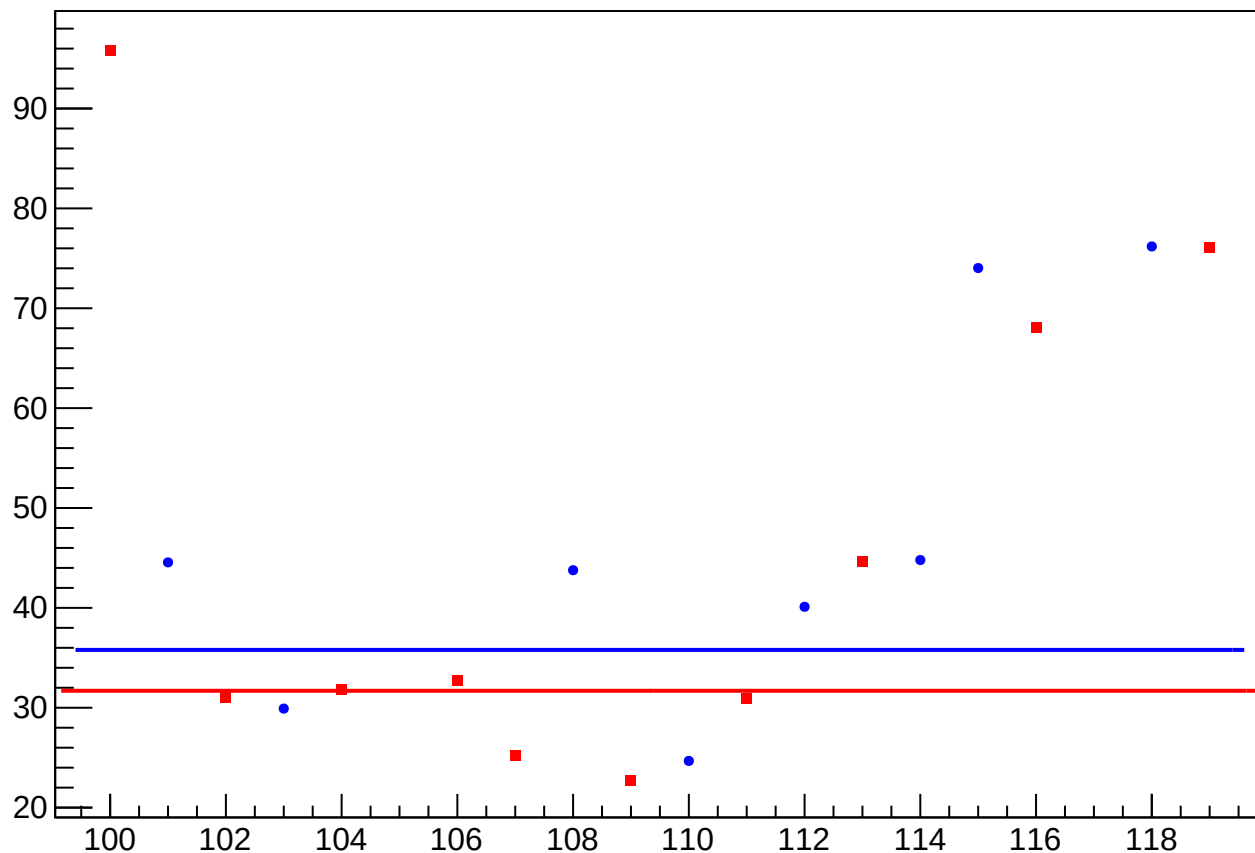
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.013  $\chi^2$ /NDF: 21.0/17

- 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: 35.791+/-0.015  $\chi^2/\text{NDF}$ : 648618.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.699+/-0.012  $\chi^2/\text{NDF}$ : 827217.9/9

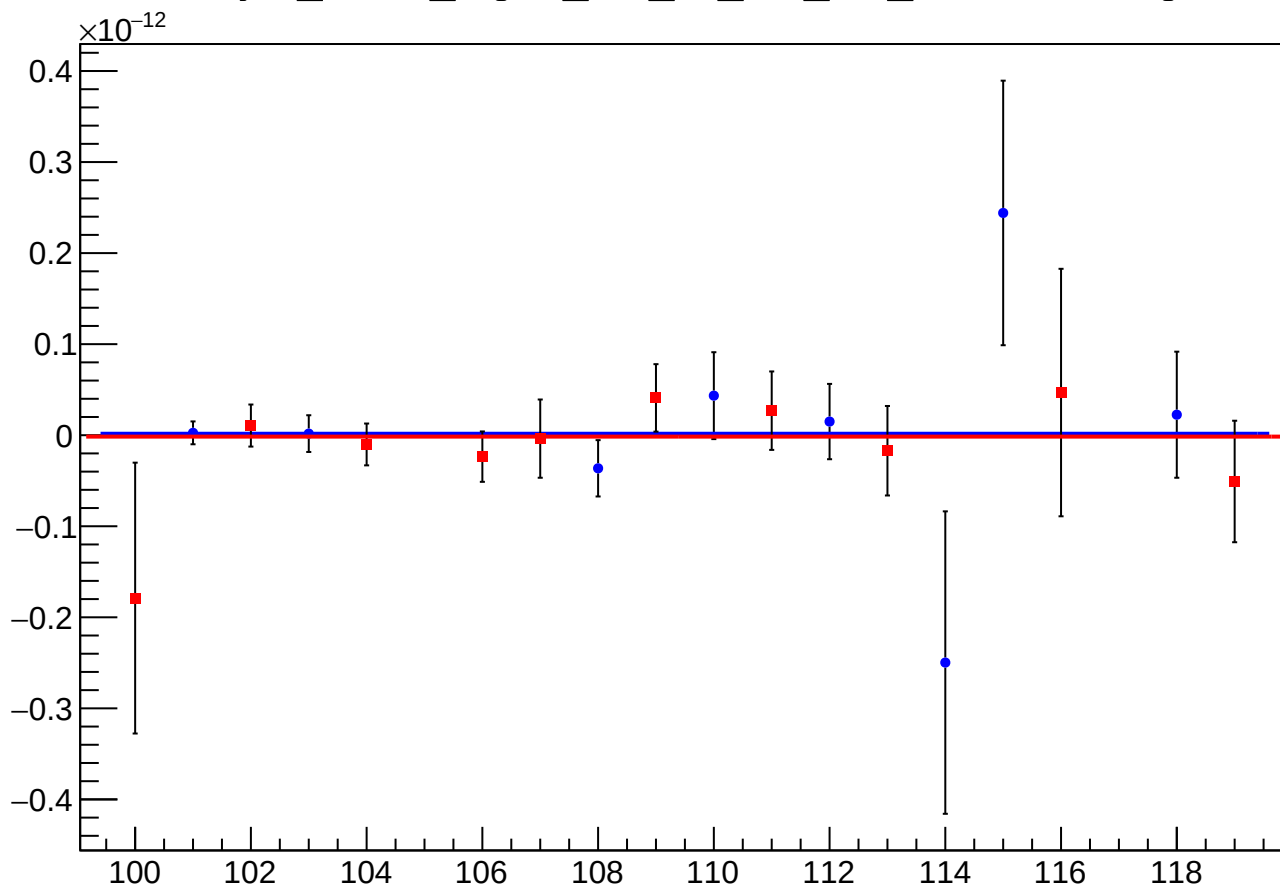
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.318+/-0.010  $\chi^2/\text{NDF}$ : 1519800.4/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 7.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.0/9

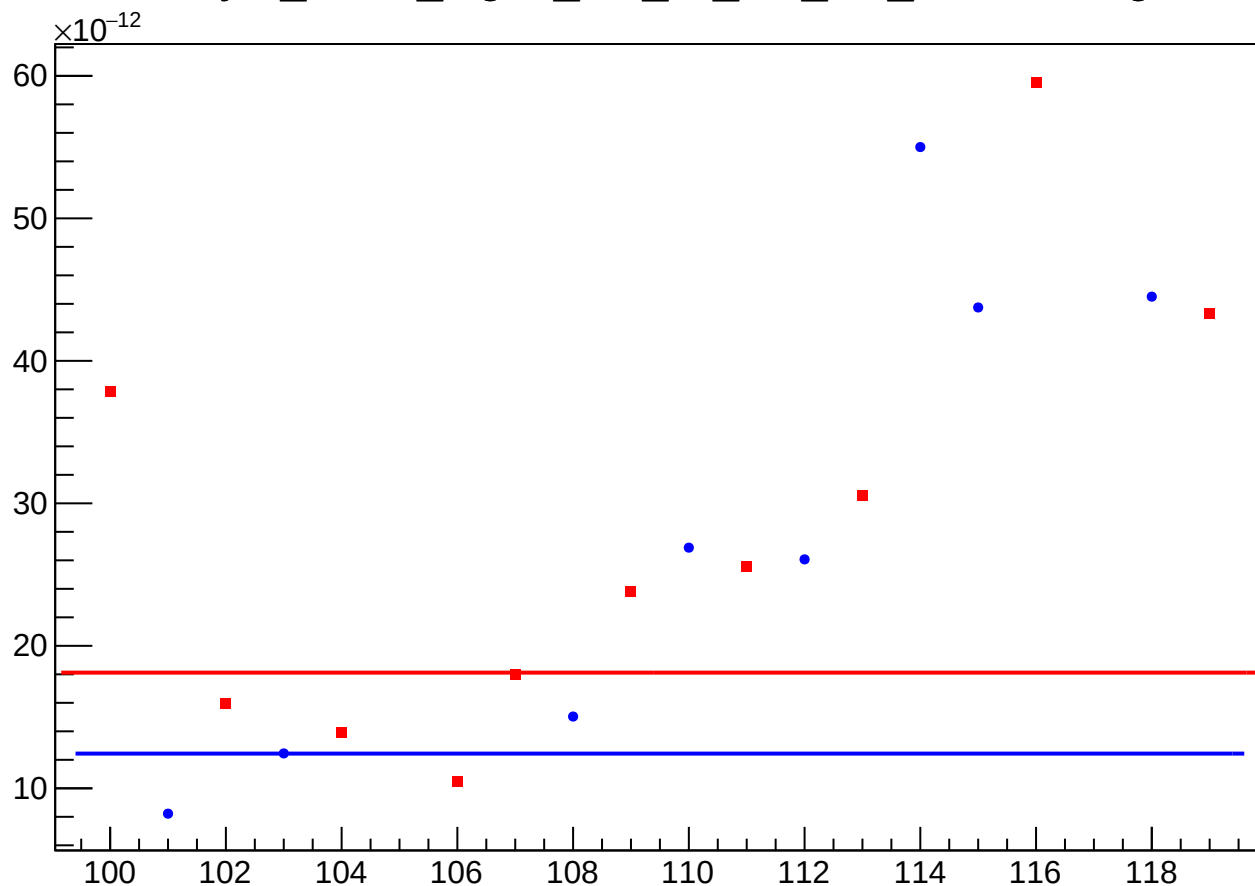
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1293860.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 978046.3/9

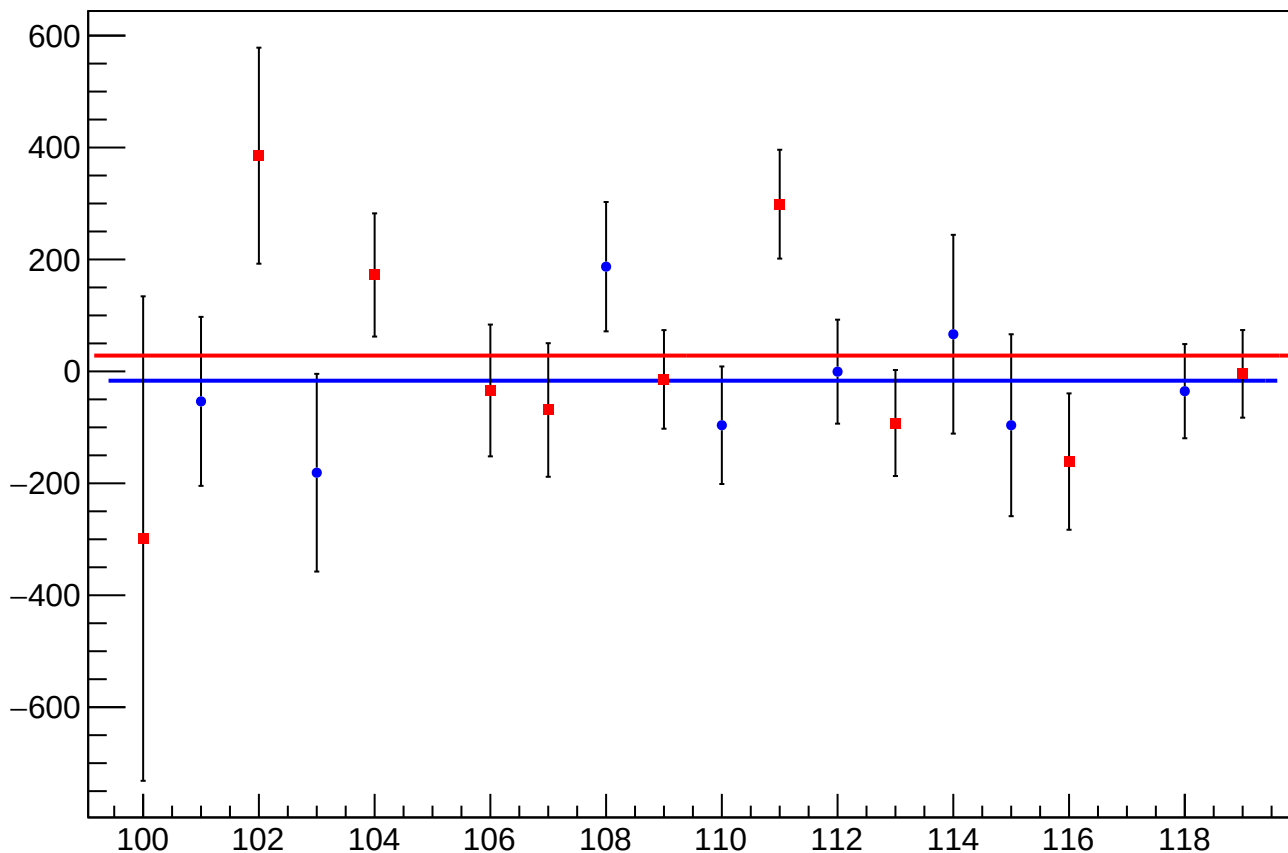
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2564483.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_mean vs Slug



Right In:  $-16.622 \pm 41.953$   $\chi^2/\text{NDF}$ : 5.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $28.257 \pm 34.633$   $\chi^2/\text{NDF}$ : 18.8/9

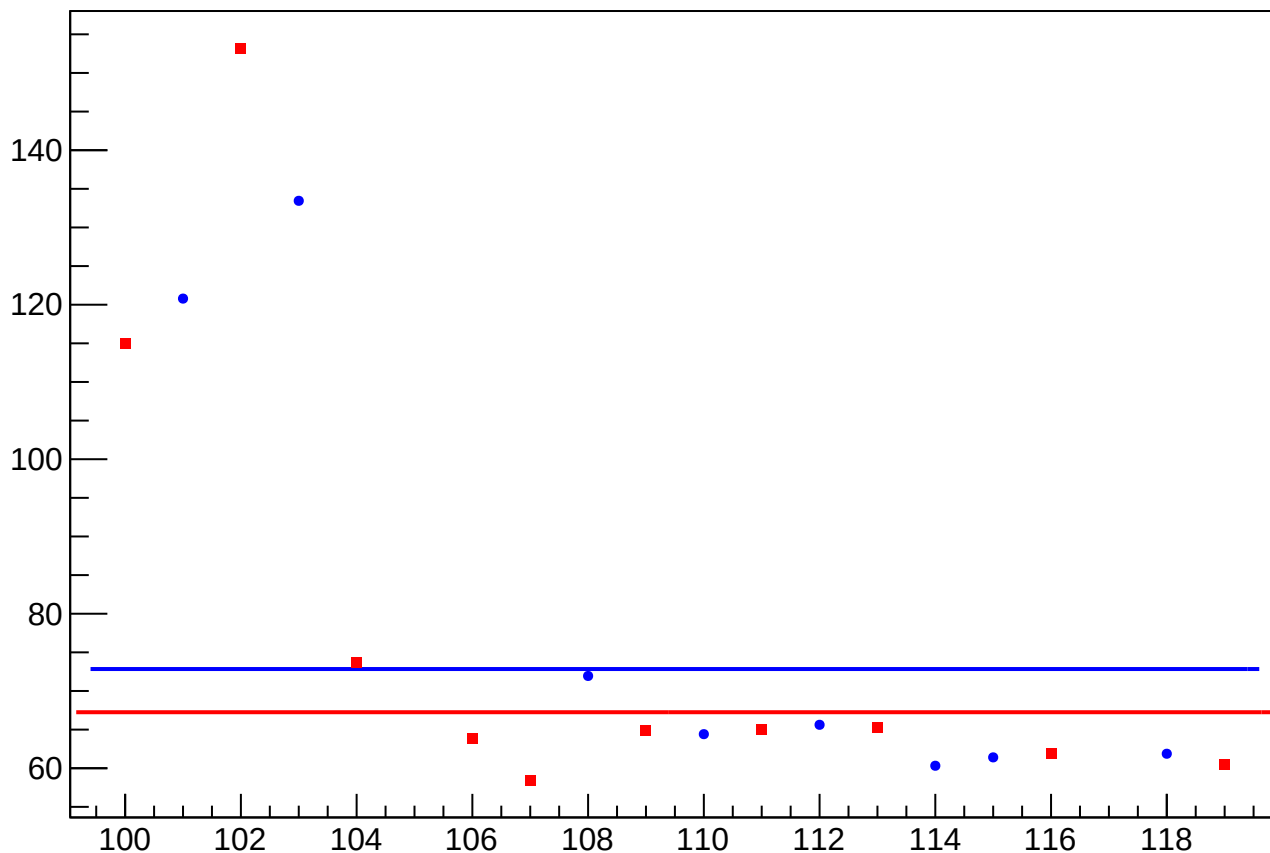
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $10.069 \pm 26.708$   $\chi^2/\text{NDF}$ : 24.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_rms vs Slug



Right In: 72.842 $\pm$ 0.030  $\chi^2$ /NDF: 516094.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.251 $\pm$ 0.024  $\chi^2$ /NDF: 461886.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

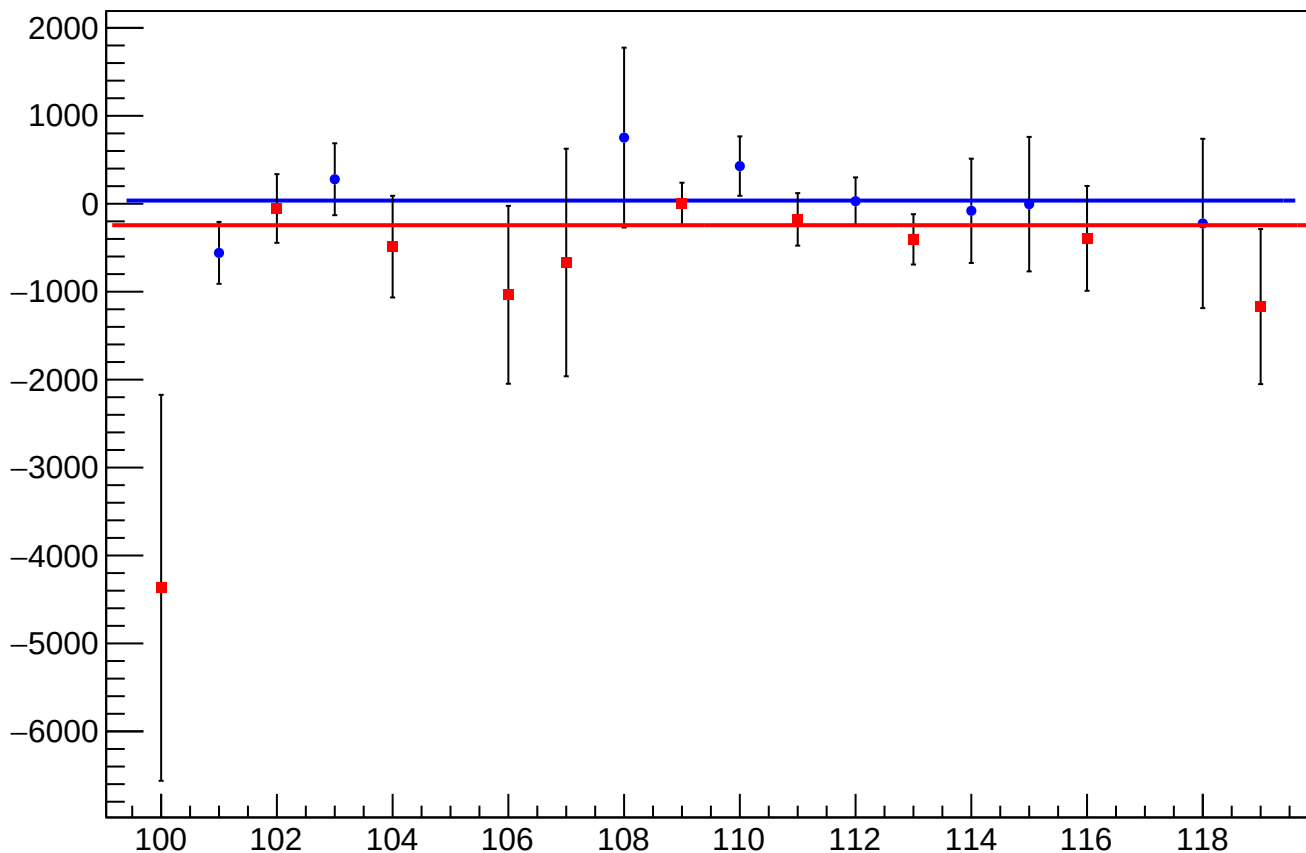
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 69.516 $\pm$ 0.019  $\chi^2$ /NDF: 999106.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam7\_reg\_correction\_mean vs Slug



Right In: 36.226+/-152.332  $\chi^2/\text{NDF}$ : 5.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -243.616+/-133.350  $\chi^2/\text{NDF}$ : 7.2/9

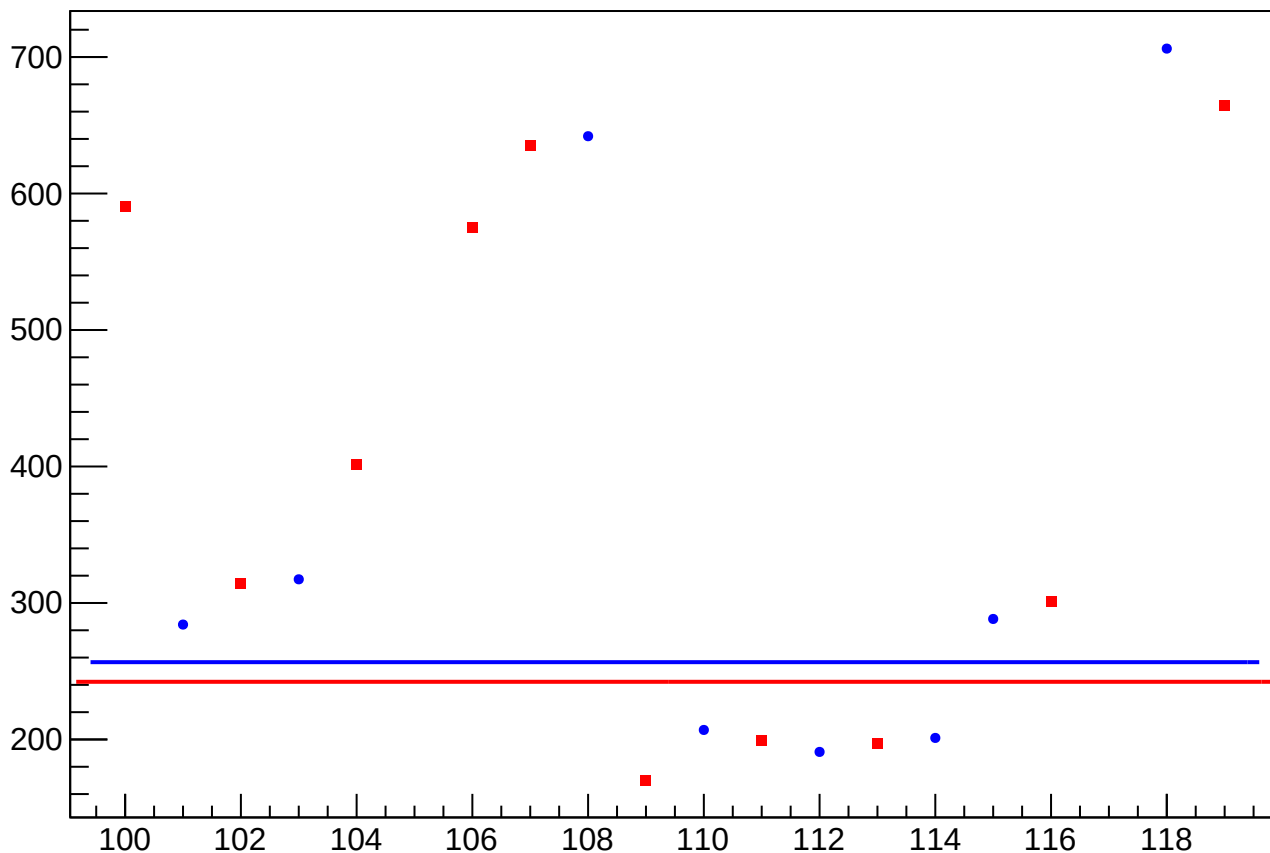
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -122.208+/-100.337  $\chi^2/\text{NDF}$ : 14.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_reg\_correction\_rms vs Slug



Right In: 256.638 $\pm$ 0.108  $\chi^2$ /NDF: 959162.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 242.255 $\pm$ 0.094  $\chi^2$ /NDF: 1422882.2/9

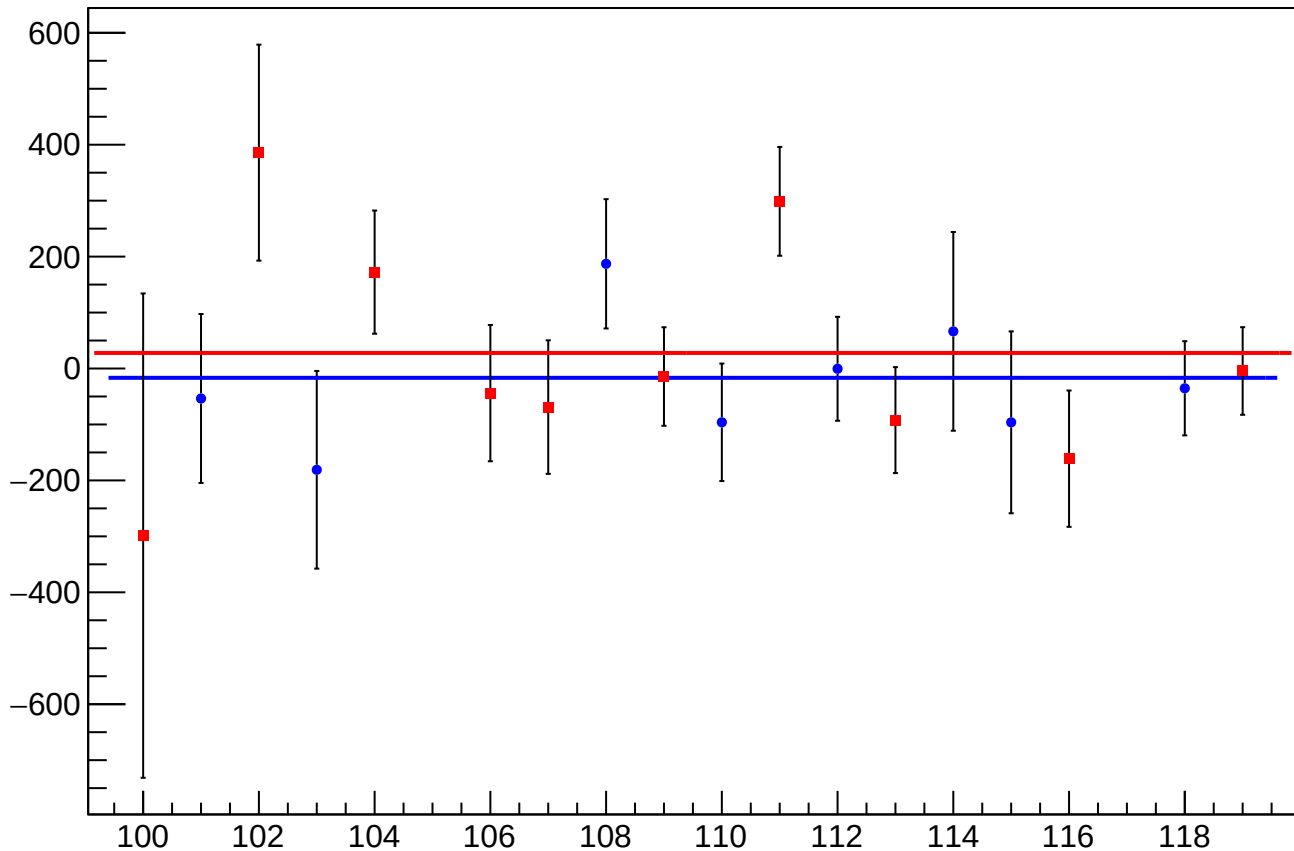
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 248.495 $\pm$ 0.071  $\chi^2$ /NDF: 2392139.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam7\_mean vs Slug



Right In: -16.628 $\pm$ 41.953  $\chi^2$ /NDF: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27.810 $\pm$ 34.732  $\chi^2$ /NDF: 18.9/9

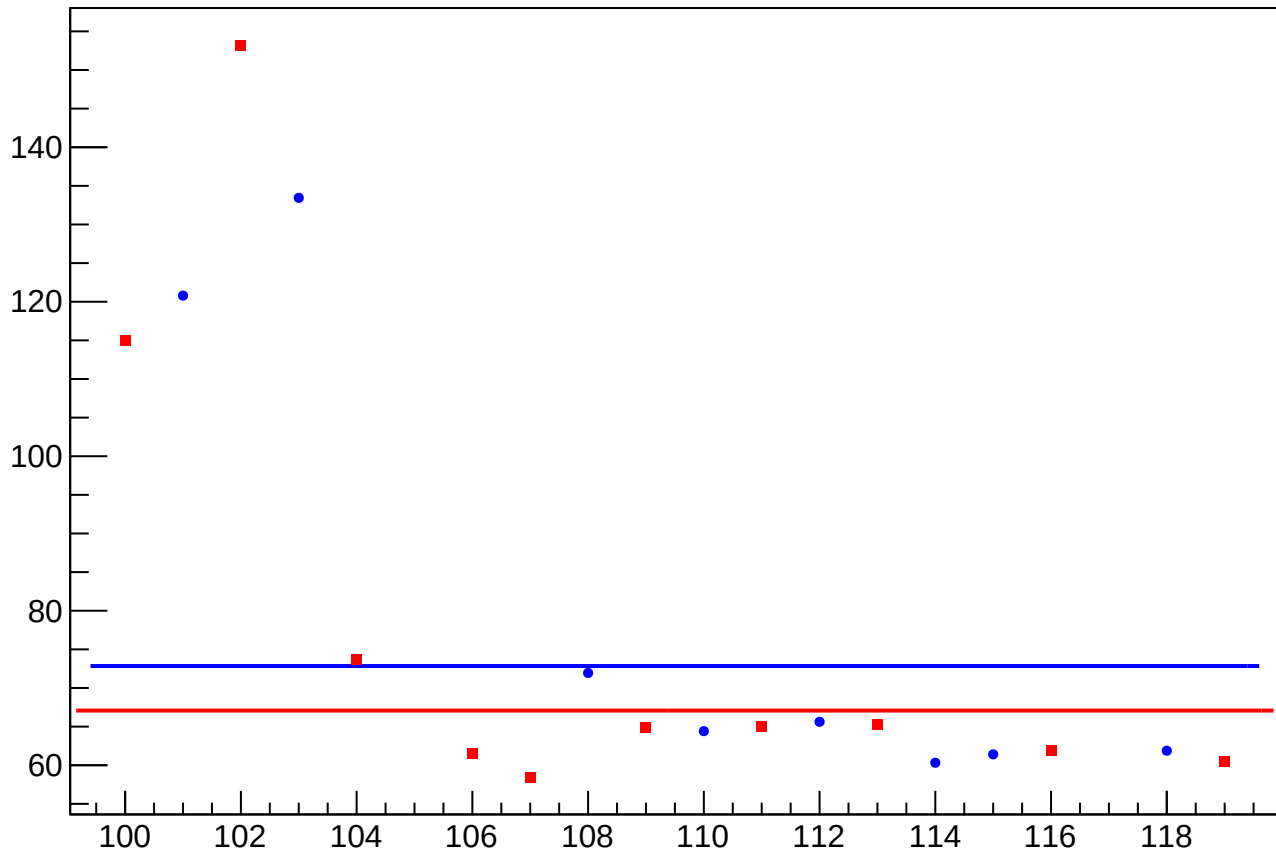
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.739 $\pm$ 26.753  $\chi^2$ /NDF: 24.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam7\_rms vs Slug



Right In: 72.842 $\pm$ 0.030  $\chi^2$ /NDF: 516095.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.078 $\pm$ 0.025  $\chi^2$ /NDF: 464630.1/9

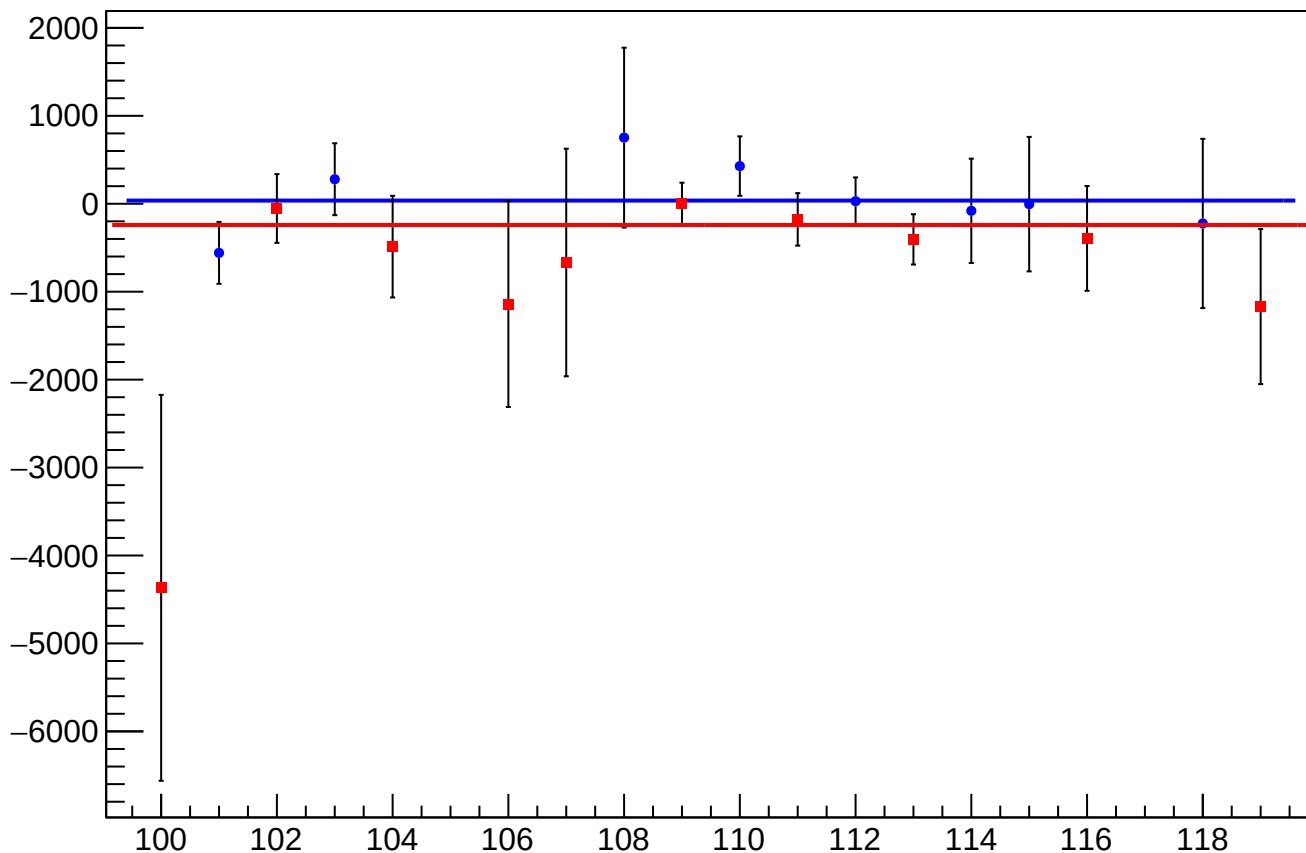
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 69.422 $\pm$ 0.019  $\chi^2$ /NDF: 1003125.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_cor\_correction\_mean vs Slug



Right In: 36.232 $\pm$ 152.334  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -241.521 $\pm$ 133.650  $\chi^2$ /NDF: 7.2/9

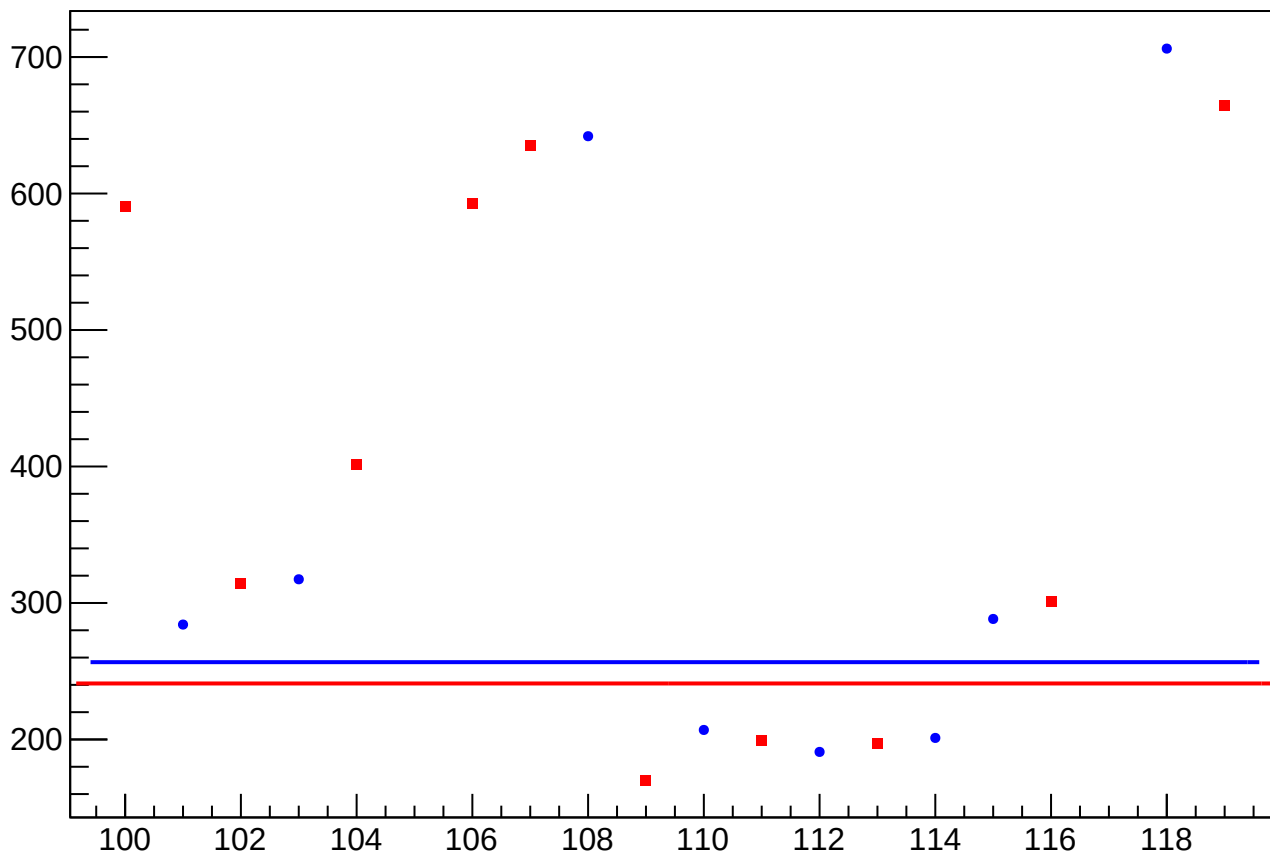
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -120.713 $\pm$ 100.465  $\chi^2$ /NDF: 14.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_cor\_correction\_rms vs Slug



Right In:  $256.640 \pm 0.108$   $\chi^2/\text{NDF}$ : 959187.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $241.031 \pm 0.095$   $\chi^2/\text{NDF}$ : 1386164.6/9

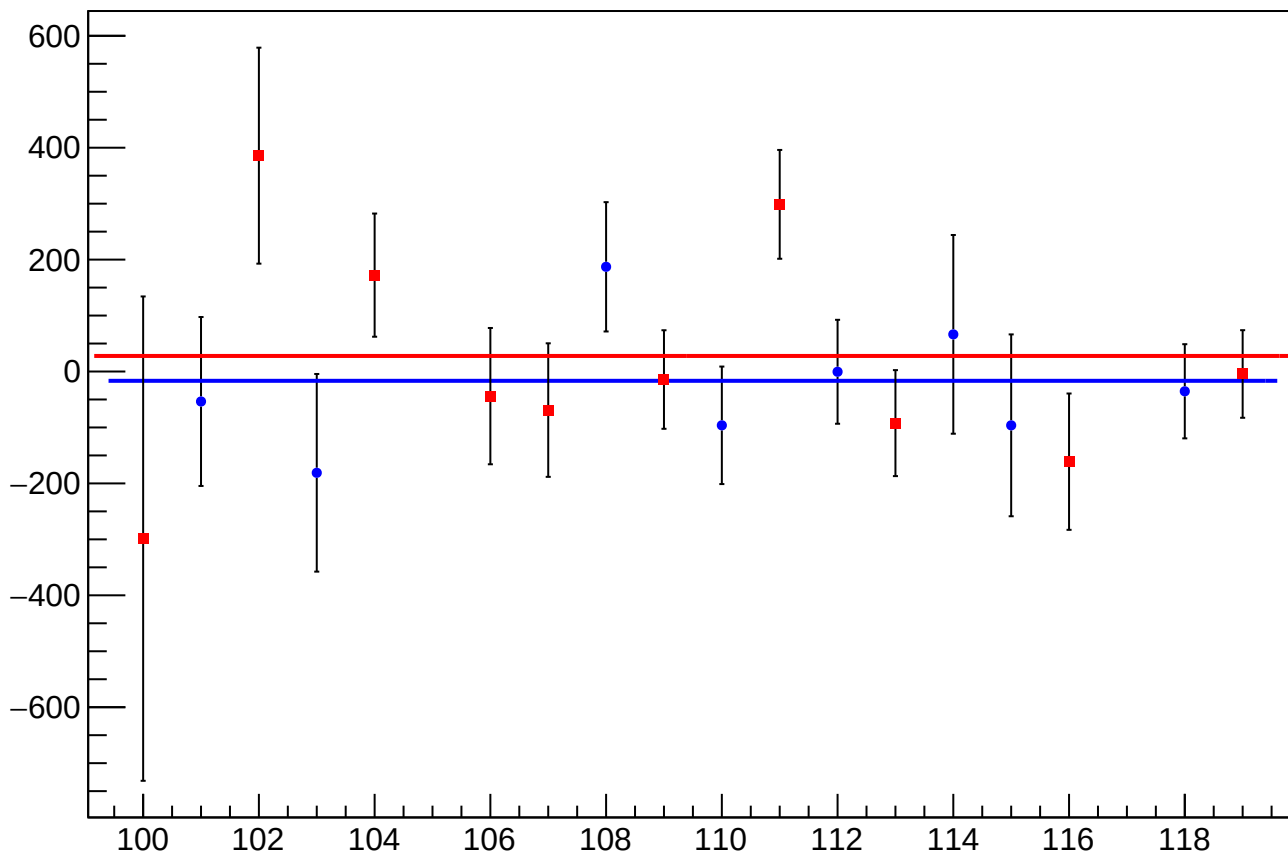
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $247.820 \pm 0.071$   $\chi^2/\text{NDF}$ : 2357216.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam7\_mean vs Slug



Right In: -16.628 $\pm$ 41.953  $\chi^2$ /NDF: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27.810 $\pm$ 34.732  $\chi^2$ /NDF: 18.9/9

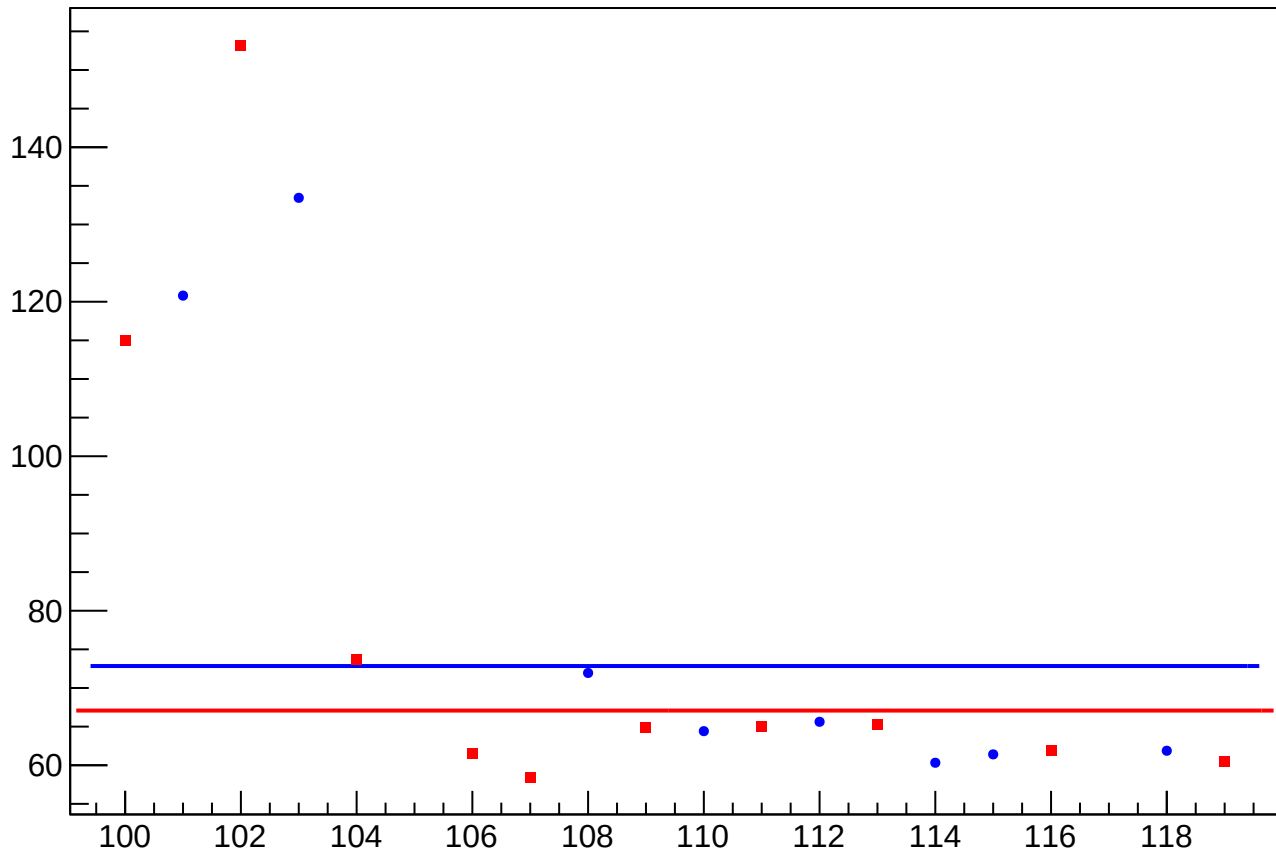
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.739 $\pm$ 26.753  $\chi^2$ /NDF: 24.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam7\_rms vs Slug



Right In: 72.842 $\pm$ 0.030  $\chi^2$ /NDF: 516095.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.078 $\pm$ 0.025  $\chi^2$ /NDF: 464630.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

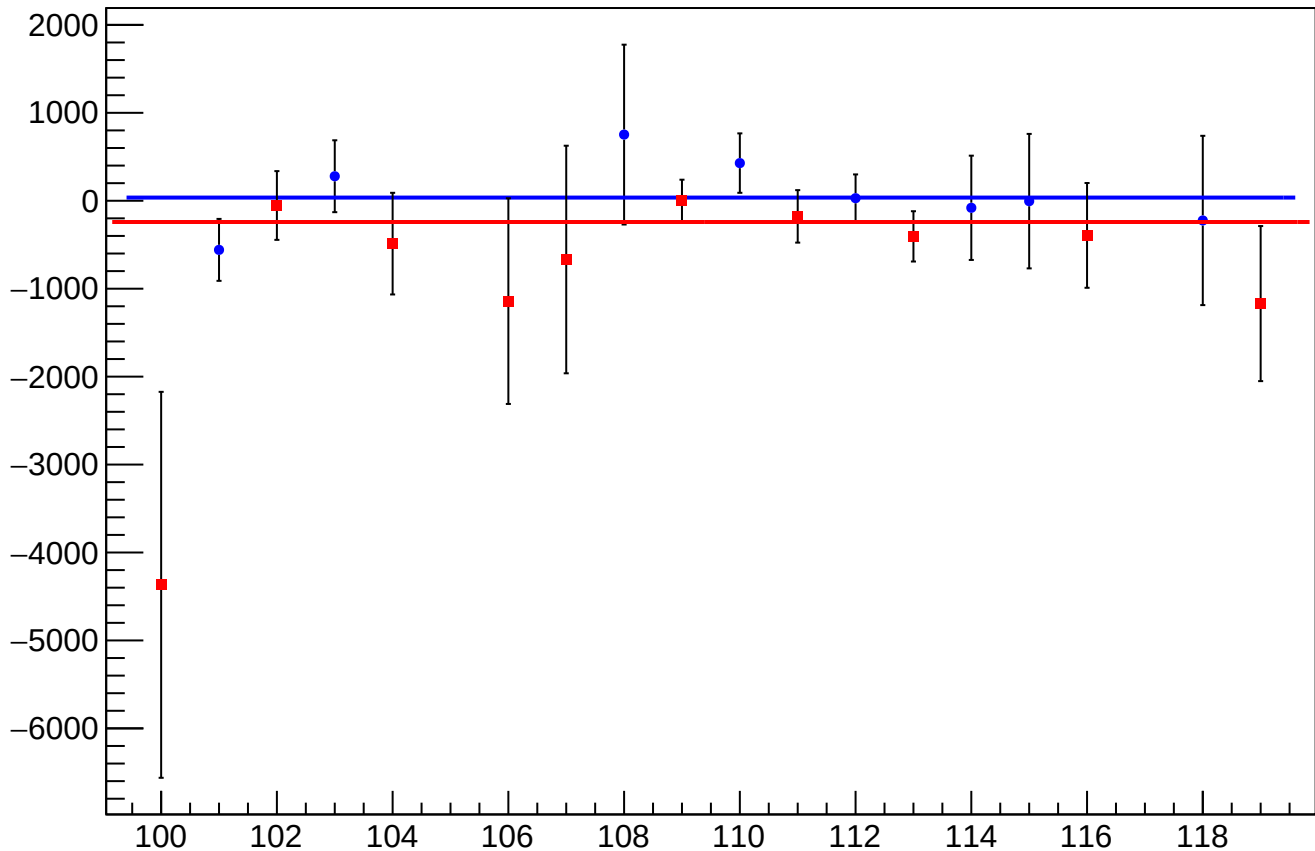
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 69.422 $\pm$ 0.019  $\chi^2$ /NDF: 1003125.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam7\_eigen\_cor\_correction\_mean vs Slug



Right In: 36.232 $\pm$ 152.334  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -241.521 $\pm$ 133.650  $\chi^2$ /NDF: 7.2/9

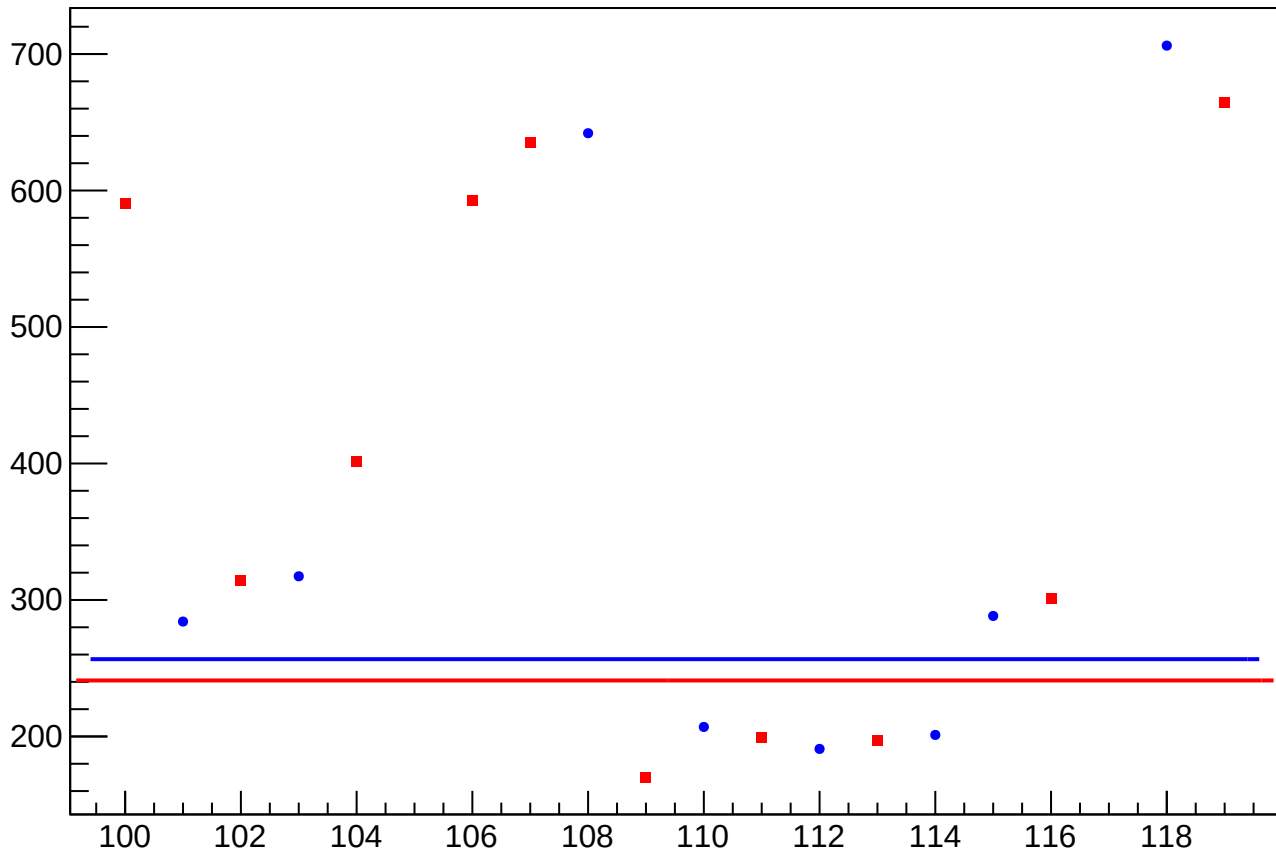
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -120.713 $\pm$ 100.465  $\chi^2$ /NDF: 14.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_eigen\_cor\_correction\_rms vs Slug



Right In: 256.640 $\pm$ 0.108  $\chi^2$ /NDF: 959187.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 241.031 $\pm$ 0.095  $\chi^2$ /NDF: 1386164.6/9

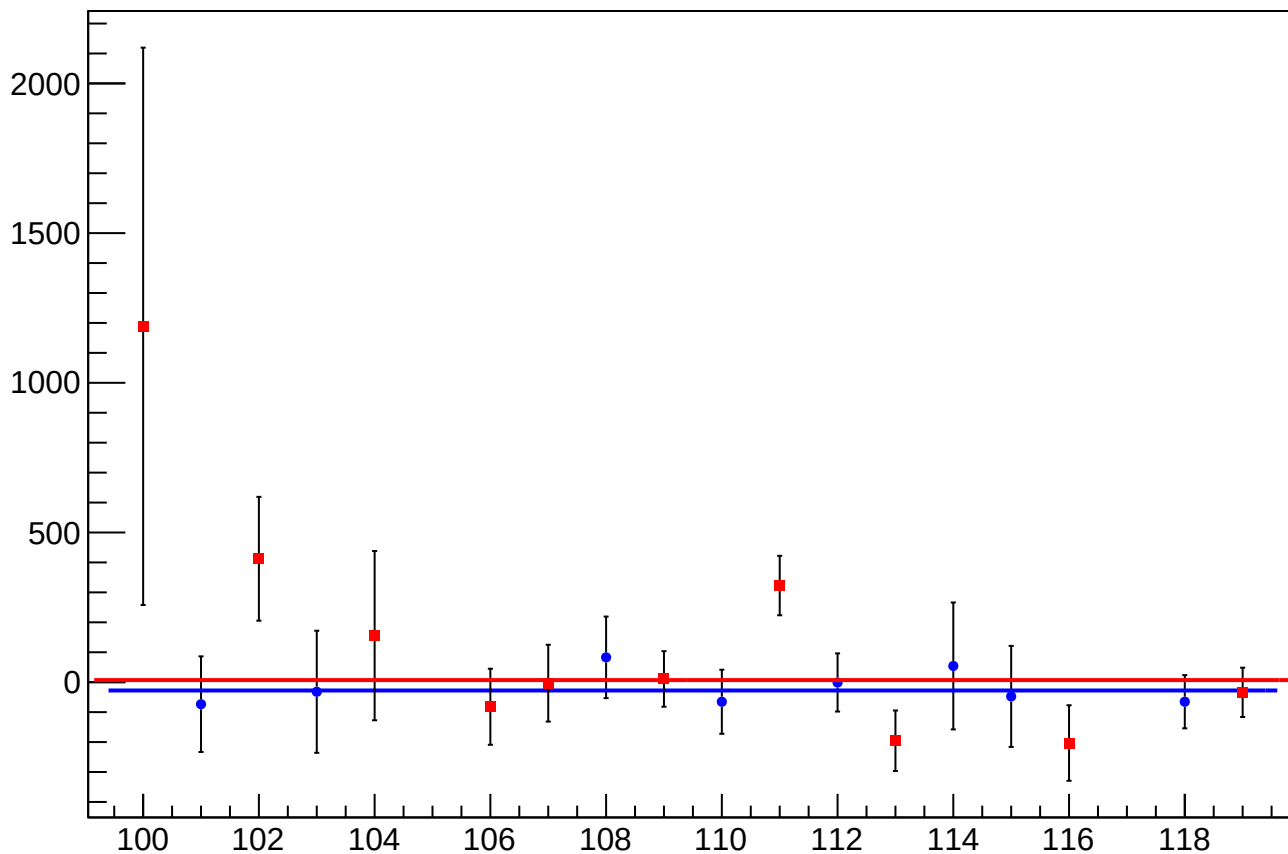
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 247.820 $\pm$ 0.071  $\chi^2$ /NDF: 2357216.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam7\_mean vs Slug



Right In: -27.694 $\pm$ 44.975  $\chi^2$ /NDF: 1.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7.001 $\pm$ 38.198  $\chi^2$ /NDF: 23.4/9

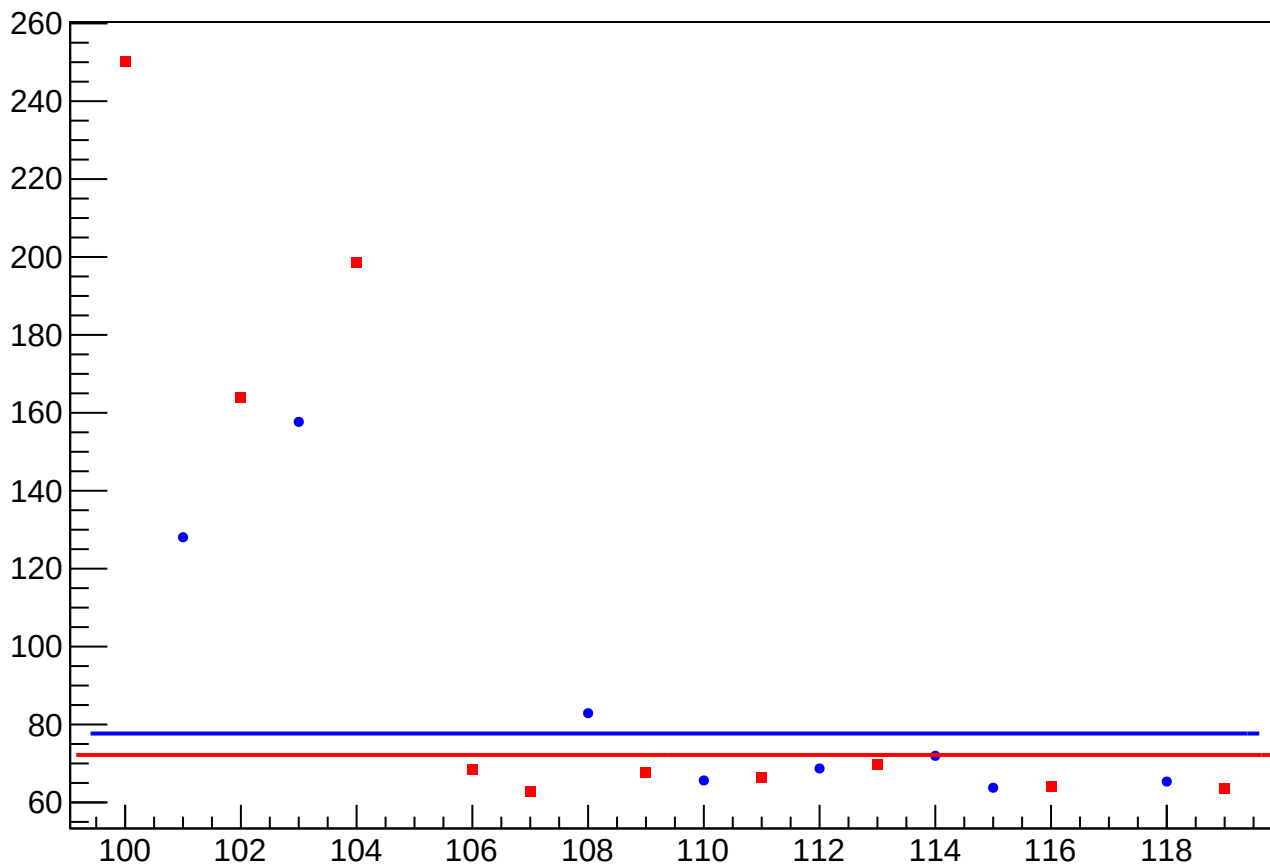
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -7.538 $\pm$ 29.115  $\chi^2$ /NDF: 25.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam7\_rms vs Slug



Right In: 77.687+/-0.032  $\chi^2/\text{NDF}$ : 605610.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 72.183+/-0.027  $\chi^2/\text{NDF}$ : 921922.2/9

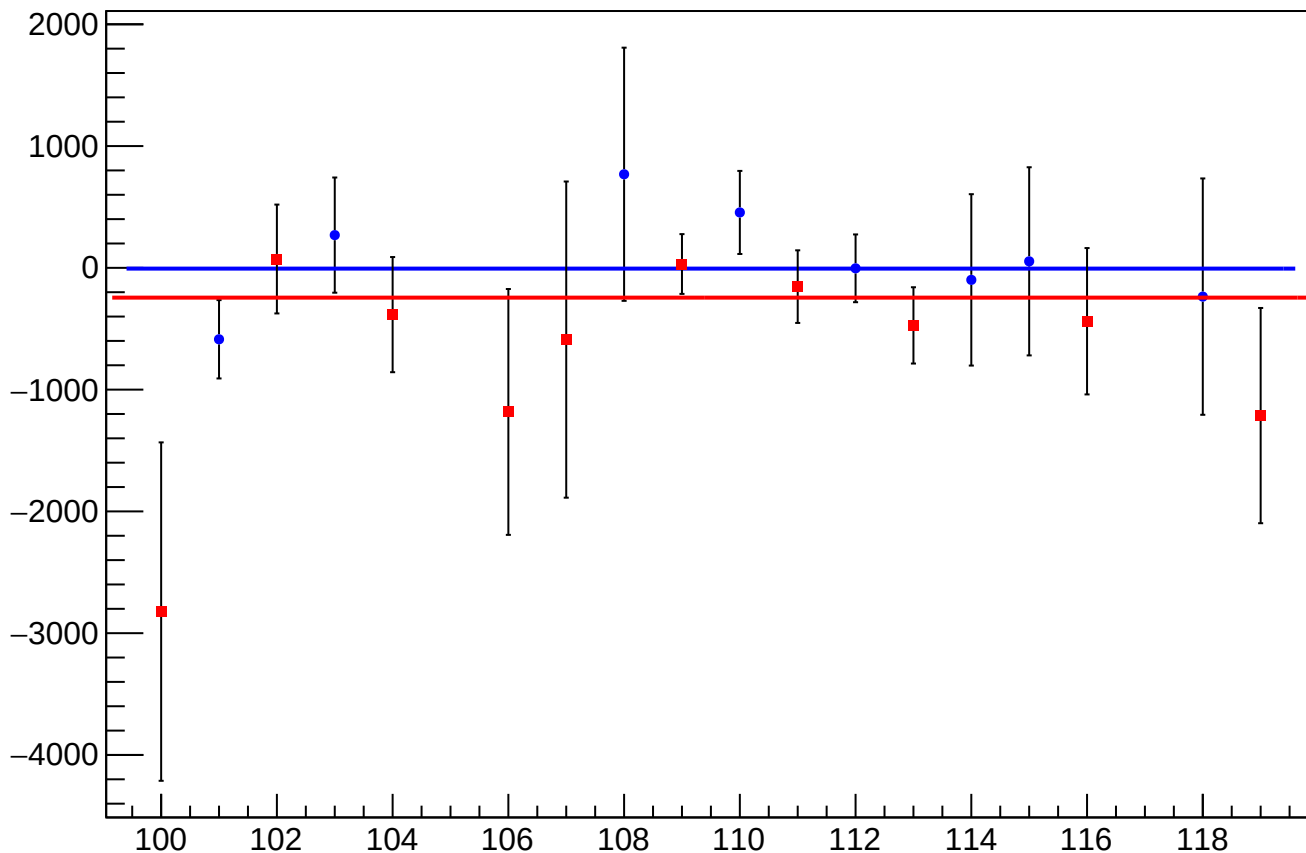
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.489+/-0.021  $\chi^2/\text{NDF}$ : 1544928.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_dit\_correction\_mean vs Slug



Right In: -6.236 $\pm$ 155.549  $\chi^2$ /NDF: 6.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -244.538 $\pm$ 136.510  $\chi^2$ /NDF: 8.2/9

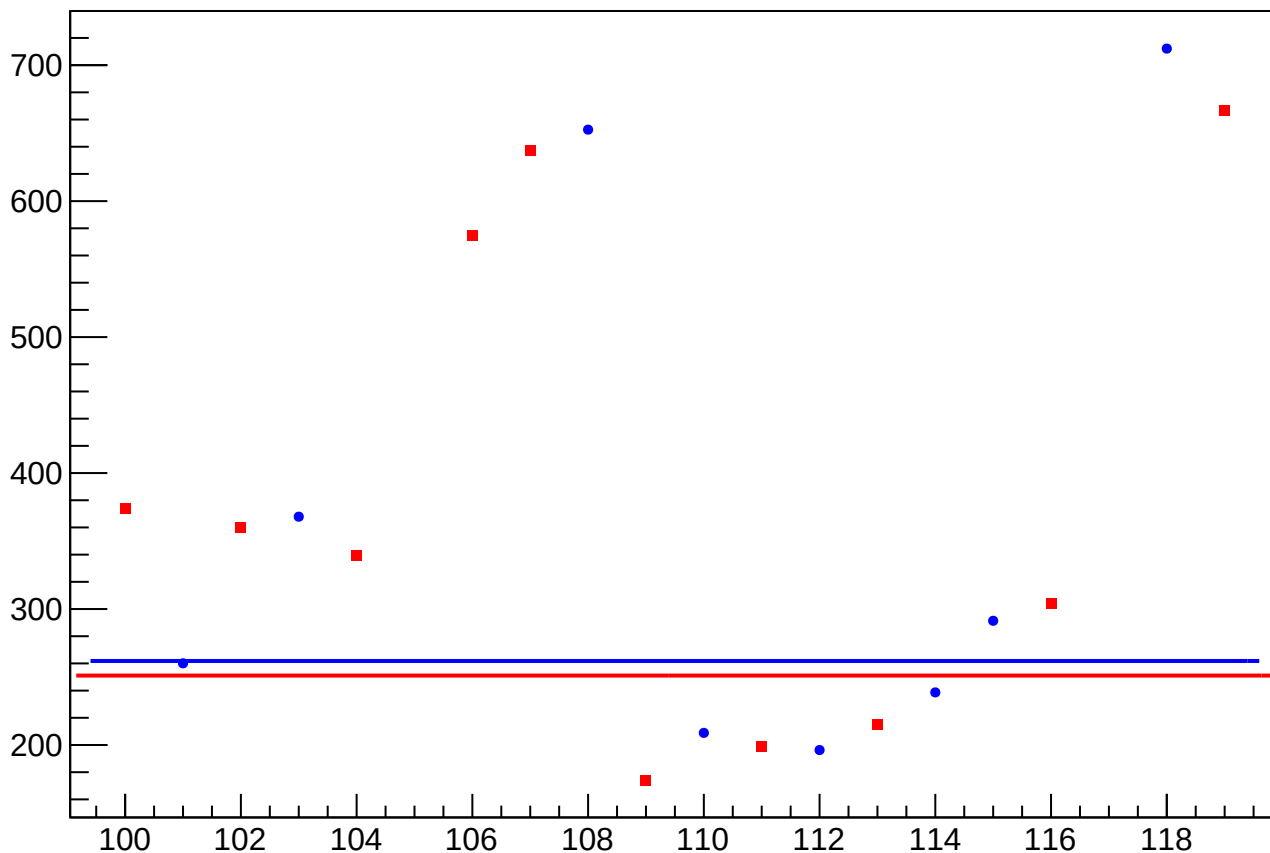
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -140.856 $\pm$ 102.602  $\chi^2$ /NDF: 15.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_dit\_correction\_rms vs Slug



Right In: 261.799+/-0.110  $\chi^2/\text{NDF}$ : 978142.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 251.073+/-0.097  $\chi^2/\text{NDF}$ : 1329125.0/9

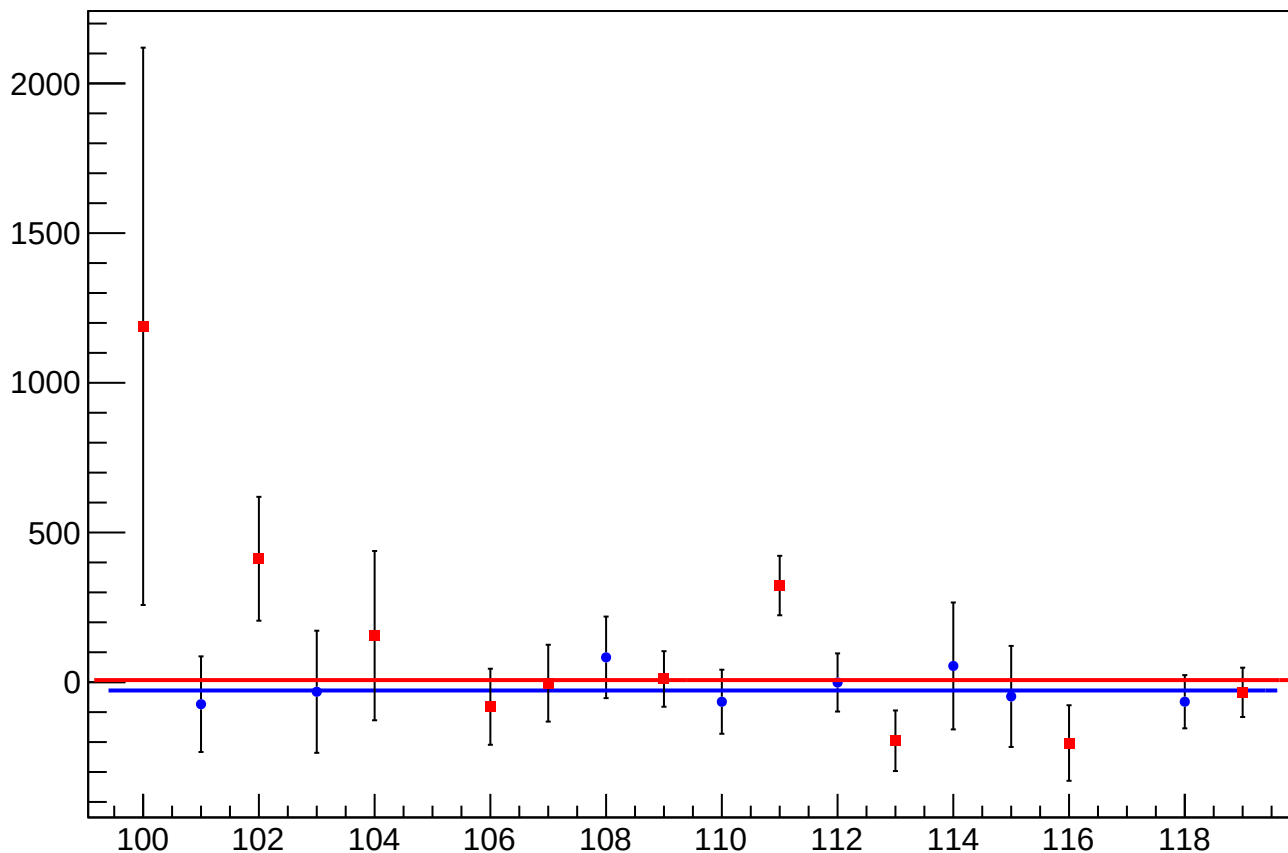
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 255.740+/-0.073  $\chi^2/\text{NDF}$ : 2312638.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam7\_mean vs Slug



Right In: -27.696 $\pm$ 44.975  $\chi^2$ /NDF: 1.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 7.003 $\pm$ 38.198  $\chi^2$ /NDF: 23.4/9

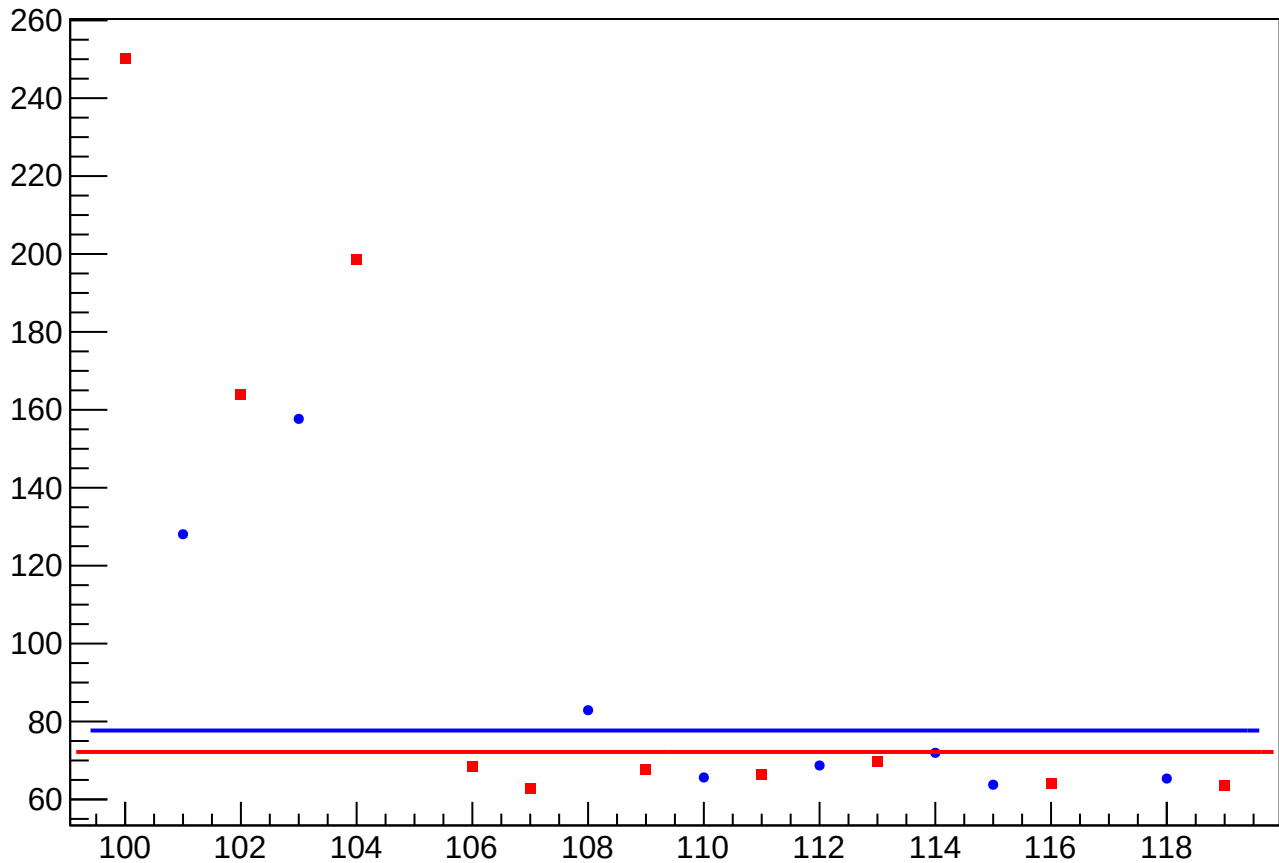
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -7.538 $\pm$ 29.115  $\chi^2$ /NDF: 25.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam7\_rms vs Slug



Right In: 77.686+/-0.032  $\chi^2/\text{NDF}$ : 605613.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 72.183+/-0.027  $\chi^2/\text{NDF}$ : 921922.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

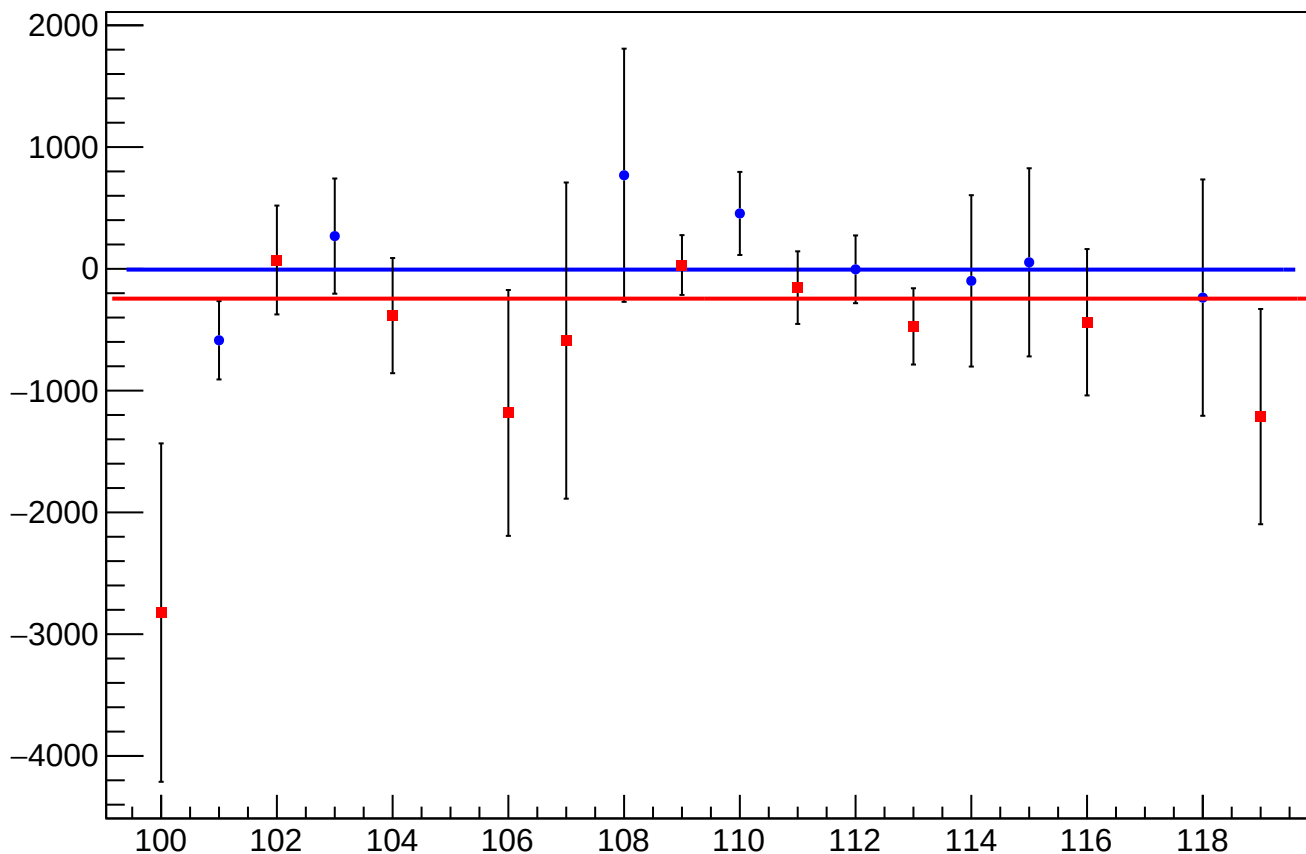
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.489+/-0.021  $\chi^2/\text{NDF}$ : 1544931.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam7\_eigen\_dit\_correction\_mean vs Slug



Right In: -6.237 $\pm$ 155.548  $\chi^2$ /NDF: 6.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -244.536 $\pm$ 136.510  $\chi^2$ /NDF: 8.2/9

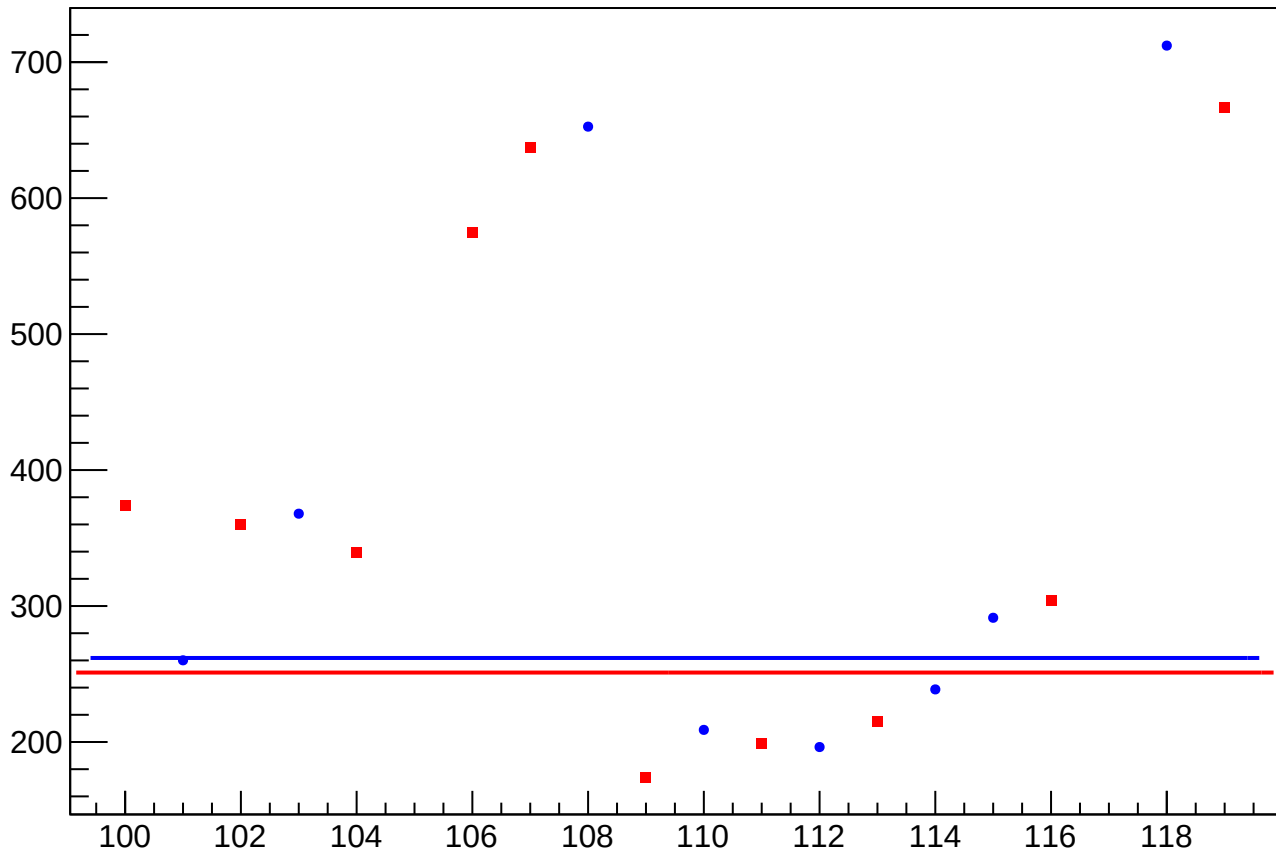
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -140.855 $\pm$ 102.601  $\chi^2$ /NDF: 15.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_eigen\_dit\_correction\_rms vs Slug



Right In: 261.796 $\pm$ 0.110  $\chi^2$ /NDF: 978156.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 251.072 $\pm$ 0.097  $\chi^2$ /NDF: 1329129.9/9

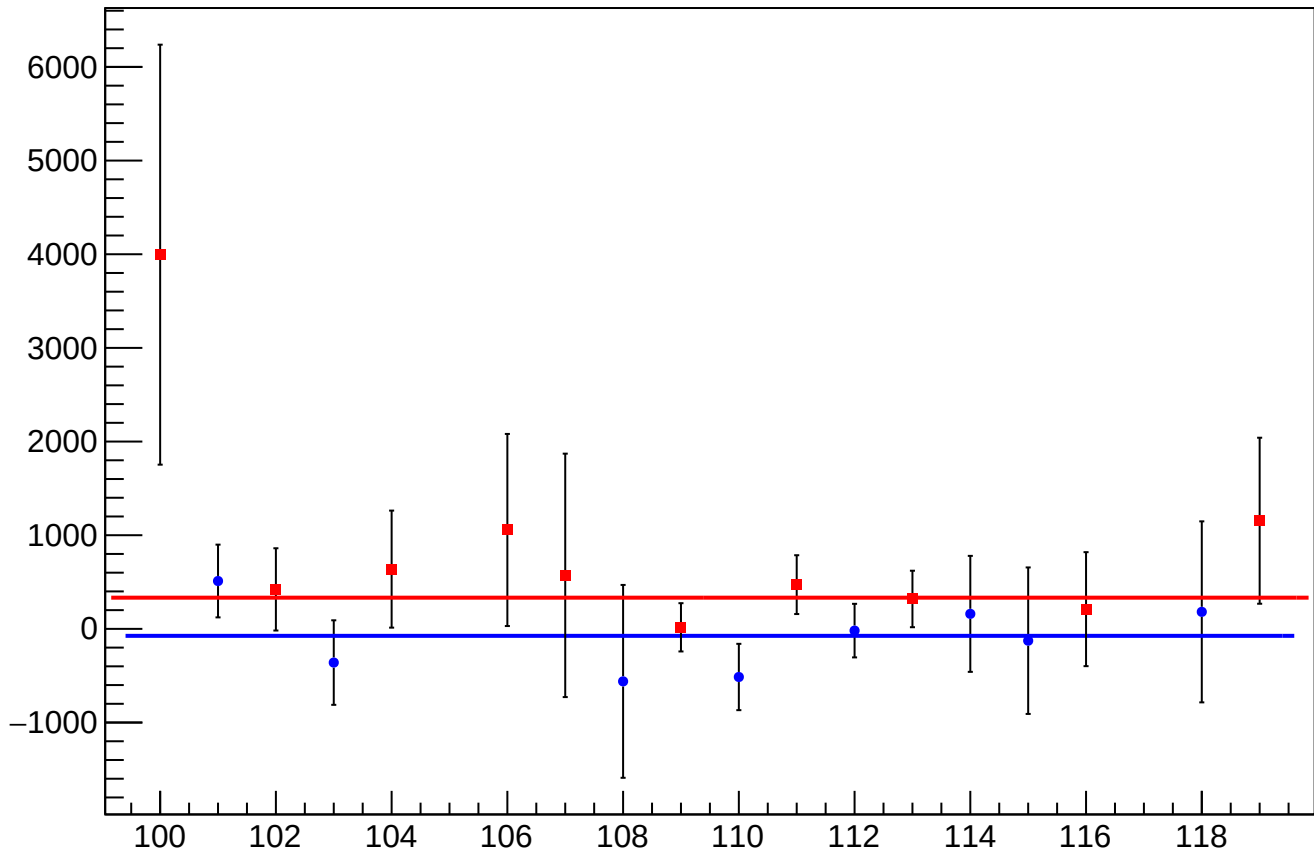
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 255.738 $\pm$ 0.073  $\chi^2$ /NDF: 2312657.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_mean vs Slug



Right In:  $-74.398 \pm 162.226$   $\chi^2/\text{NDF}$ : 4.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $333.183 \pm 141.913$   $\chi^2/\text{NDF}$ : 6.1/9

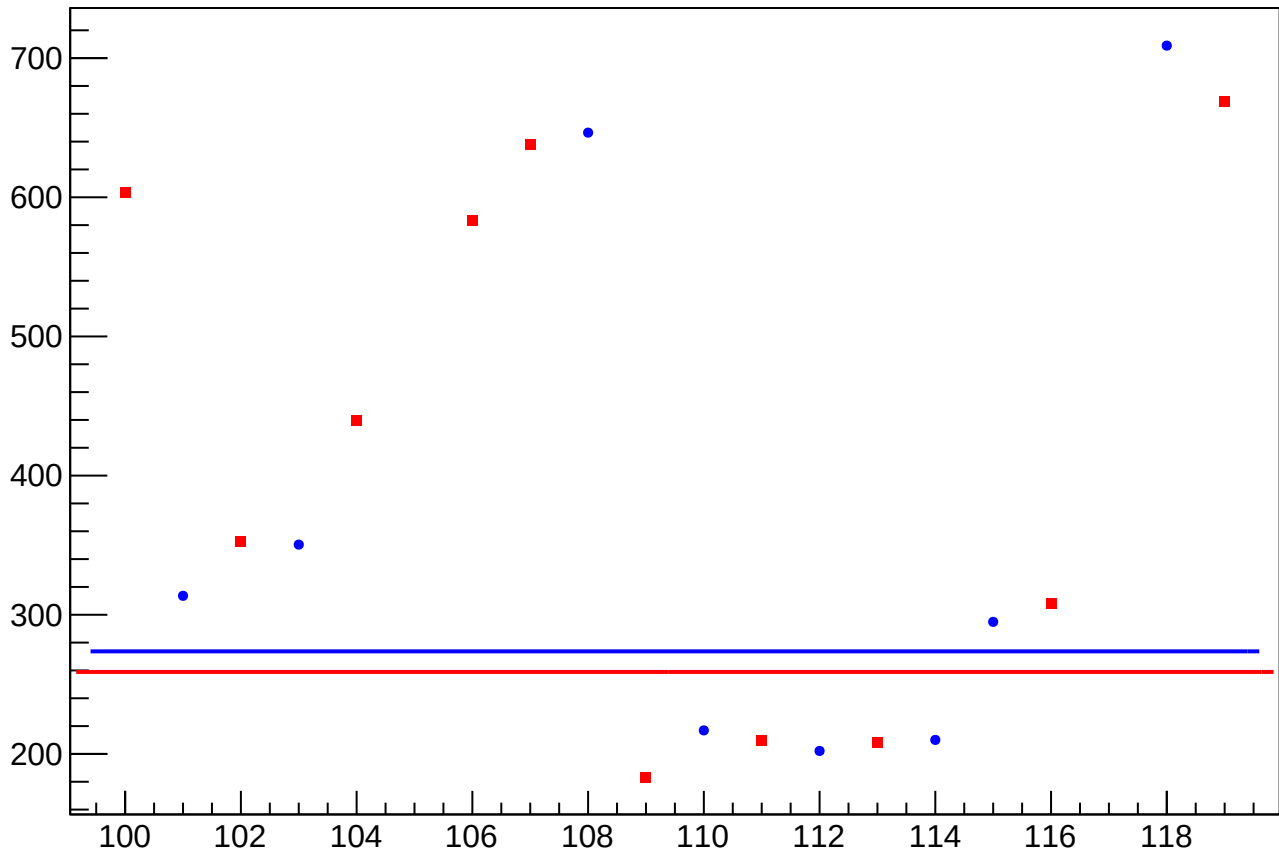
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $156.494 \pm 106.812$   $\chi^2/\text{NDF}$ : 14.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_rms vs Slug



Right In: 273.702 $\pm$ 0.115  $\chi^2$ /NDF: 946028.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 258.911 $\pm$ 0.100  $\chi^2$ /NDF: 1395010.6/9

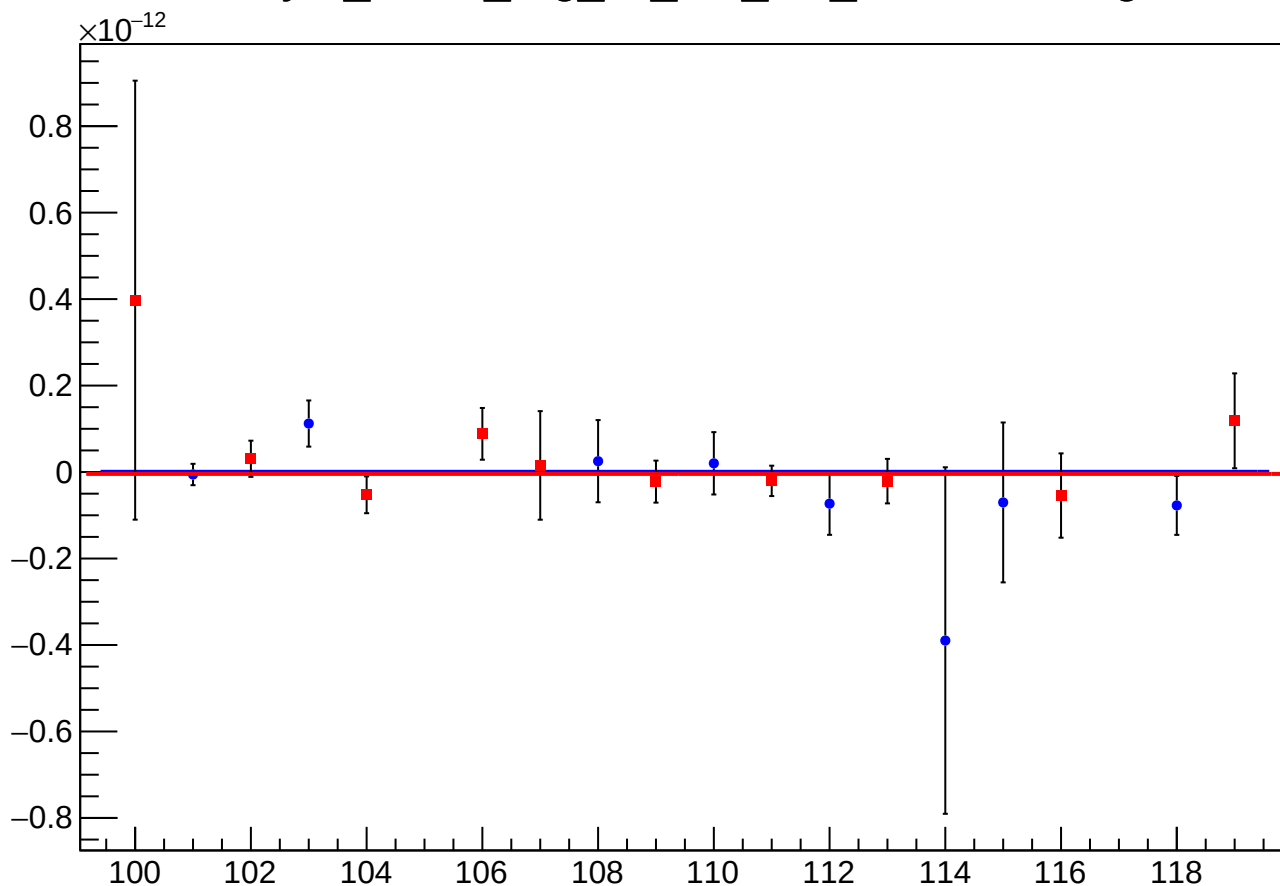
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 265.323 $\pm$ 0.076  $\chi^2$ /NDF: 2350456.9/17

- 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  $\chi^2/\text{NDF}$ : 8.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 7.0/9

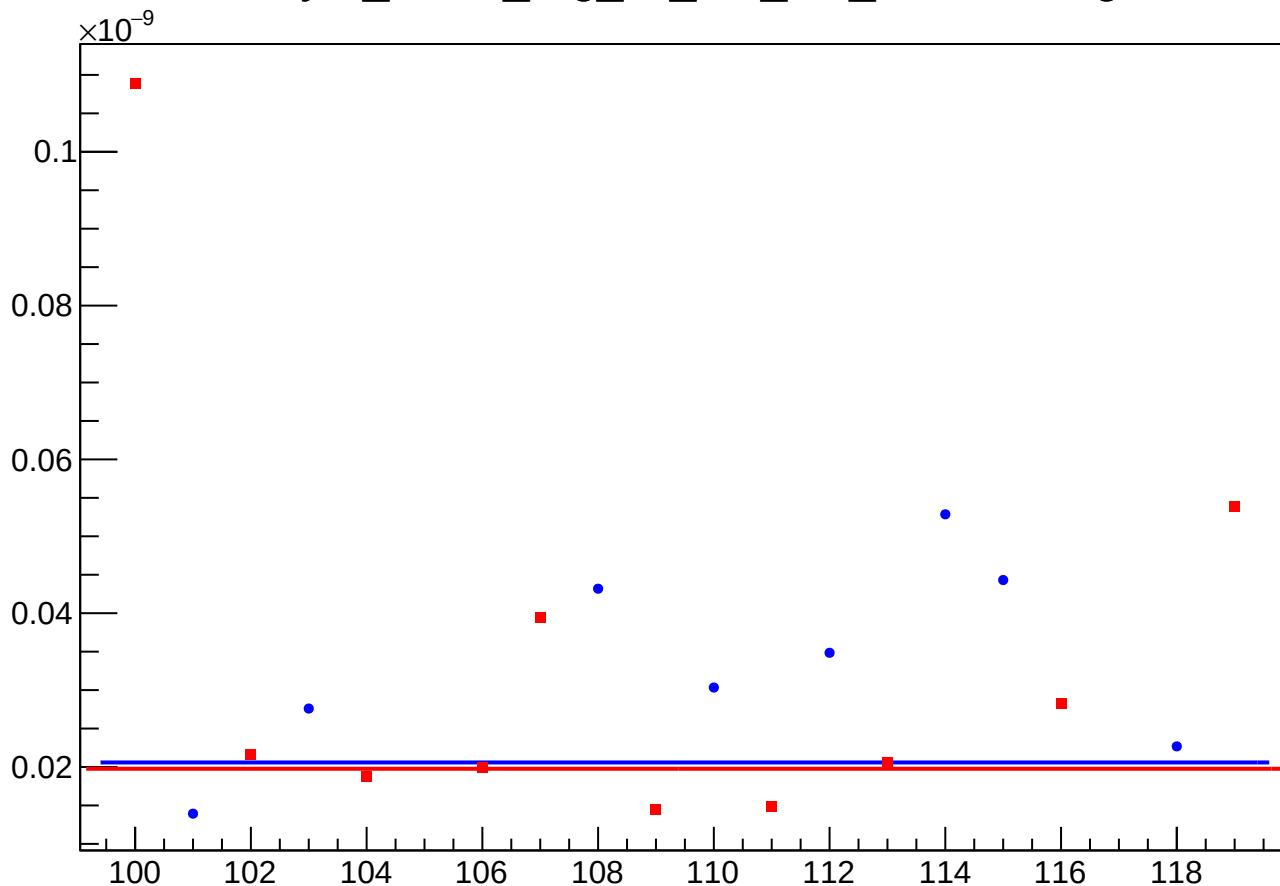
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 15.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 455408.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 386675.1/9

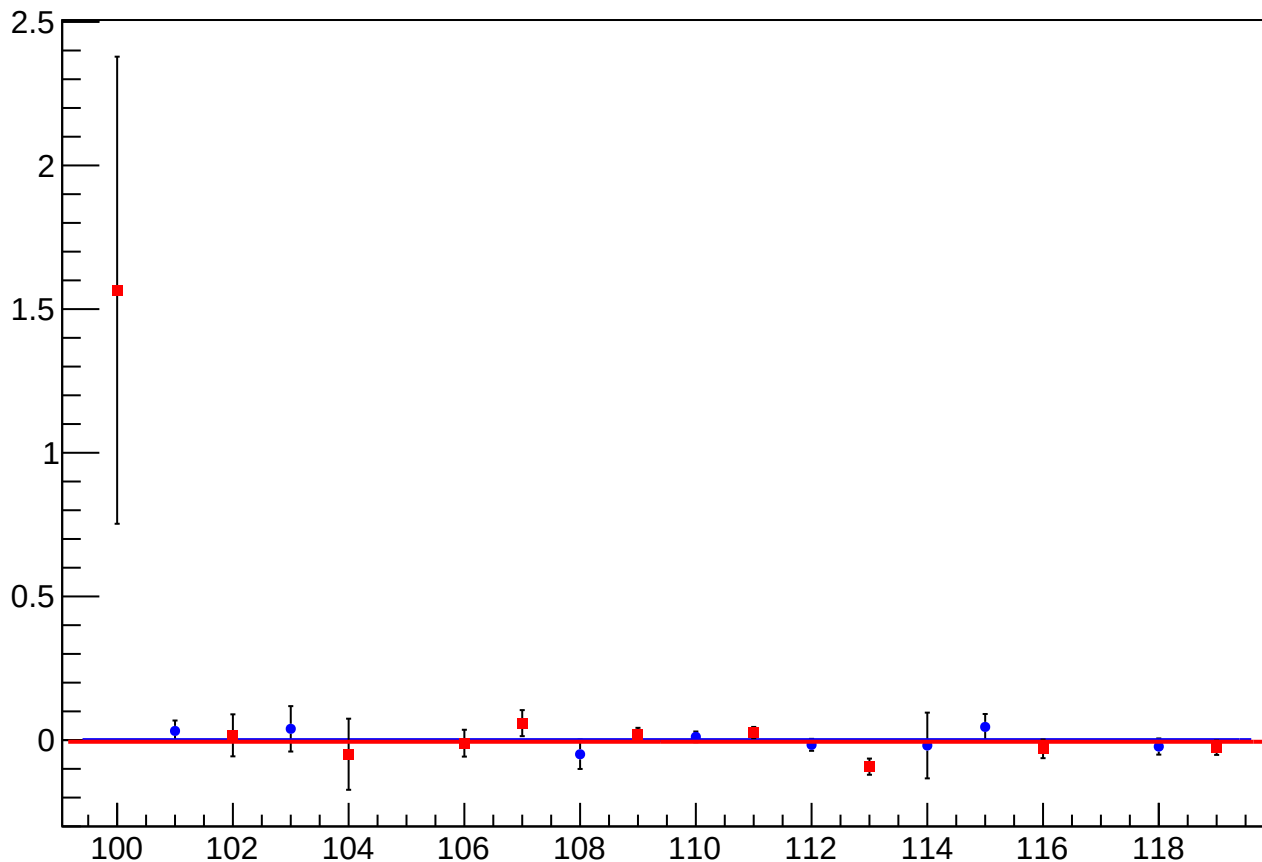
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 844091.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.011$   $\chi^2/\text{NDF}$ : 4.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.006 \pm 0.010$   $\chi^2/\text{NDF}$ : 20.7/9

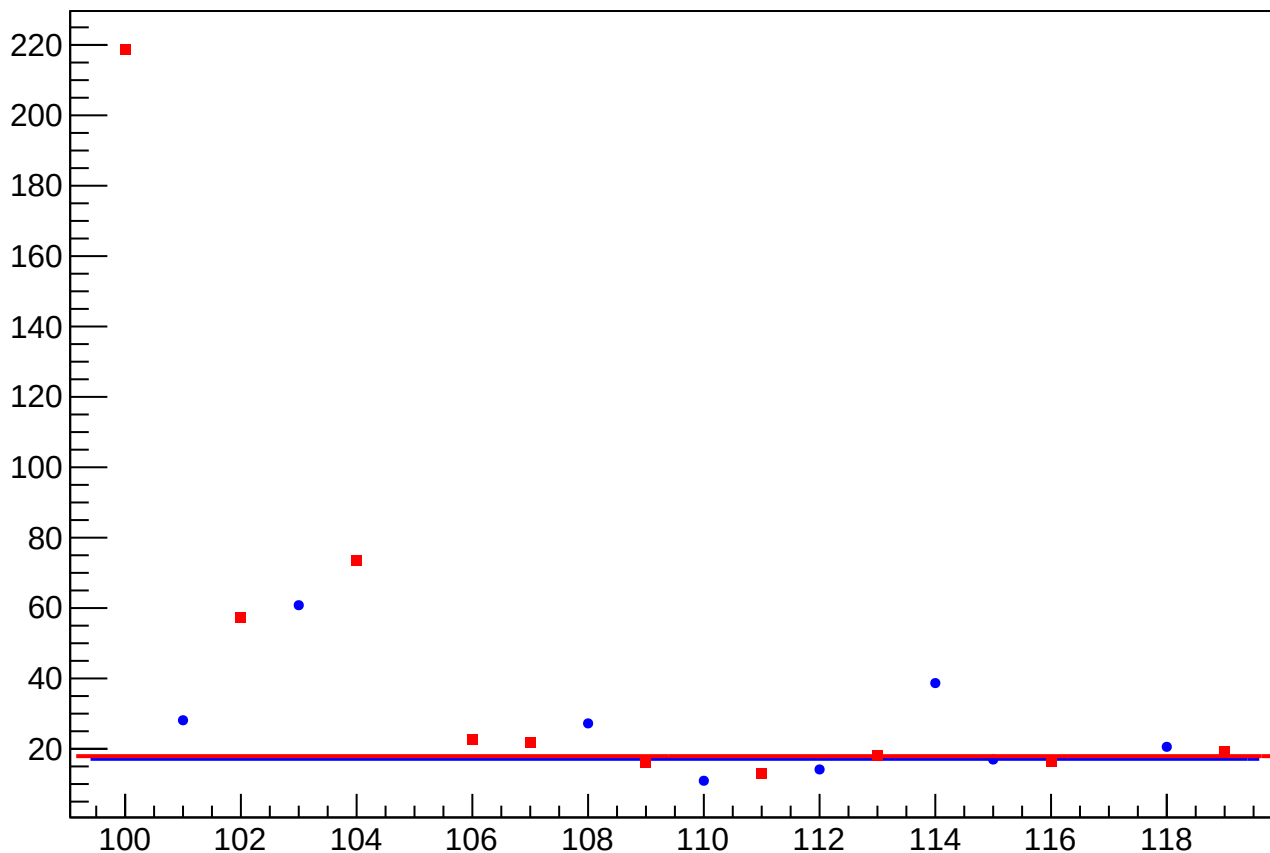
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.003 \pm 0.007$   $\chi^2/\text{NDF}$ : 25.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 17.167 $\pm$ 0.008  $\chi^2$ /NDF: 1236938.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 17.921 $\pm$ 0.007  $\chi^2$ /NDF: 1293048.6/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

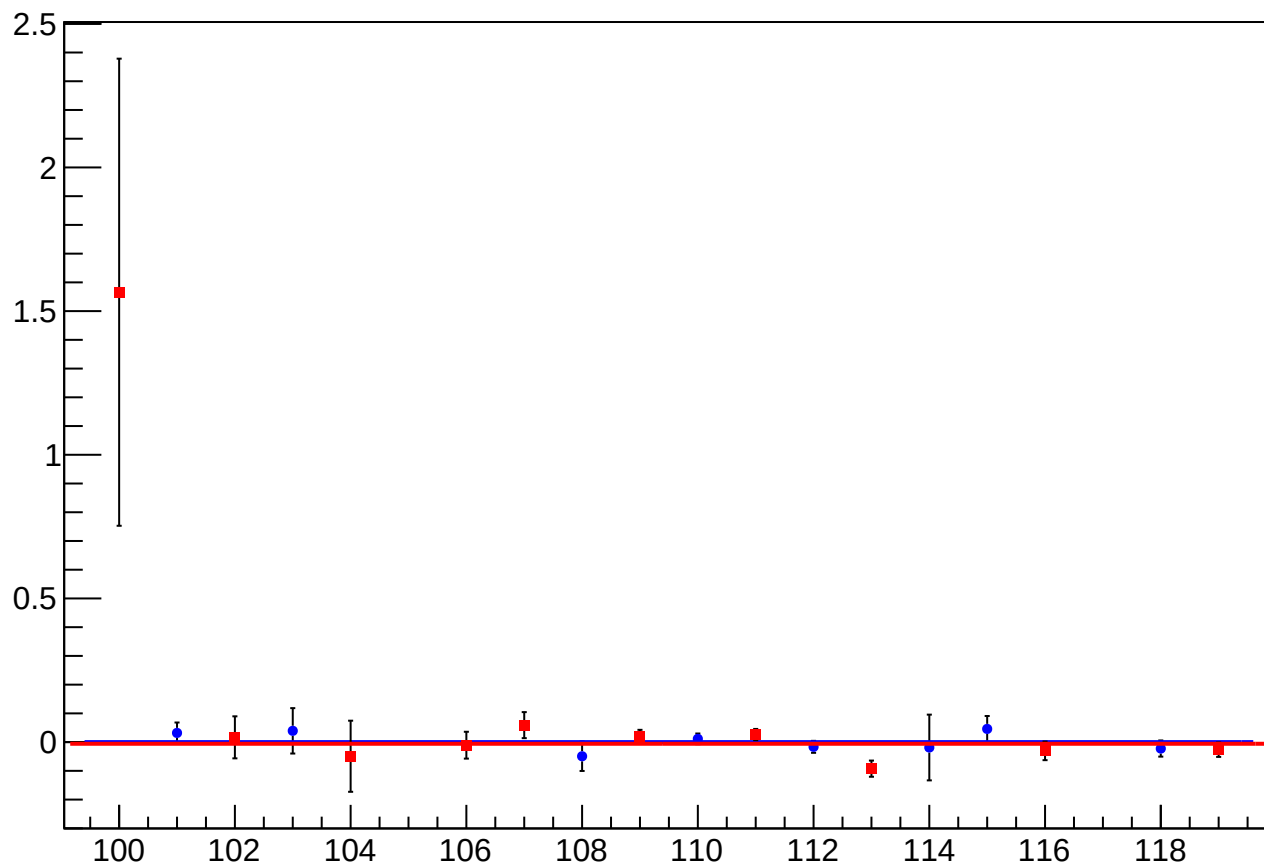
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.569 $\pm$ 0.005  $\chi^2$ /NDF: 2535043.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam7\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.011  $\chi^2$ /NDF: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.006 $\pm$ 0.010  $\chi^2$ /NDF: 20.7/9

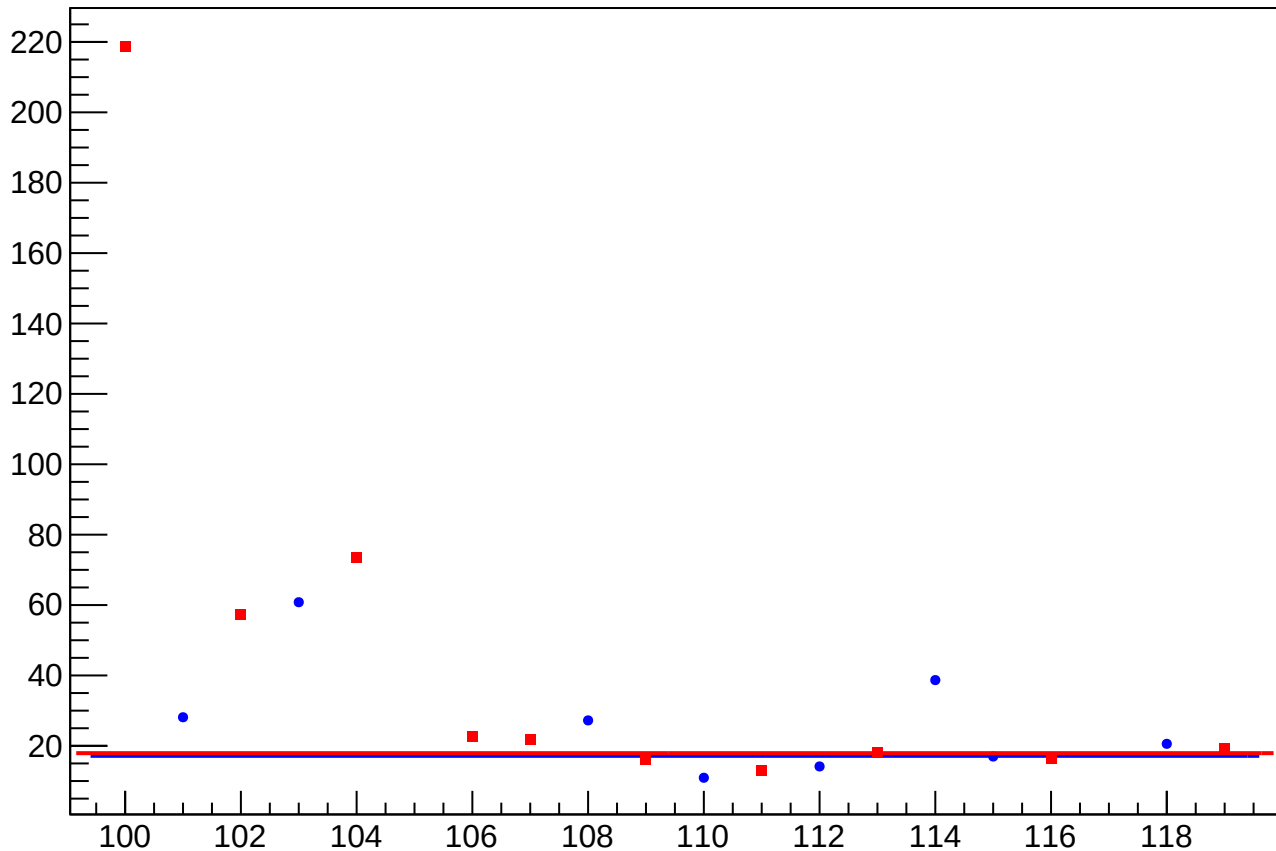
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.007  $\chi^2$ /NDF: 25.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 17.167+/-0.008  $\chi^2/\text{NDF}$ : 1236938.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.921+/-0.007  $\chi^2/\text{NDF}$ : 1293048.6/9

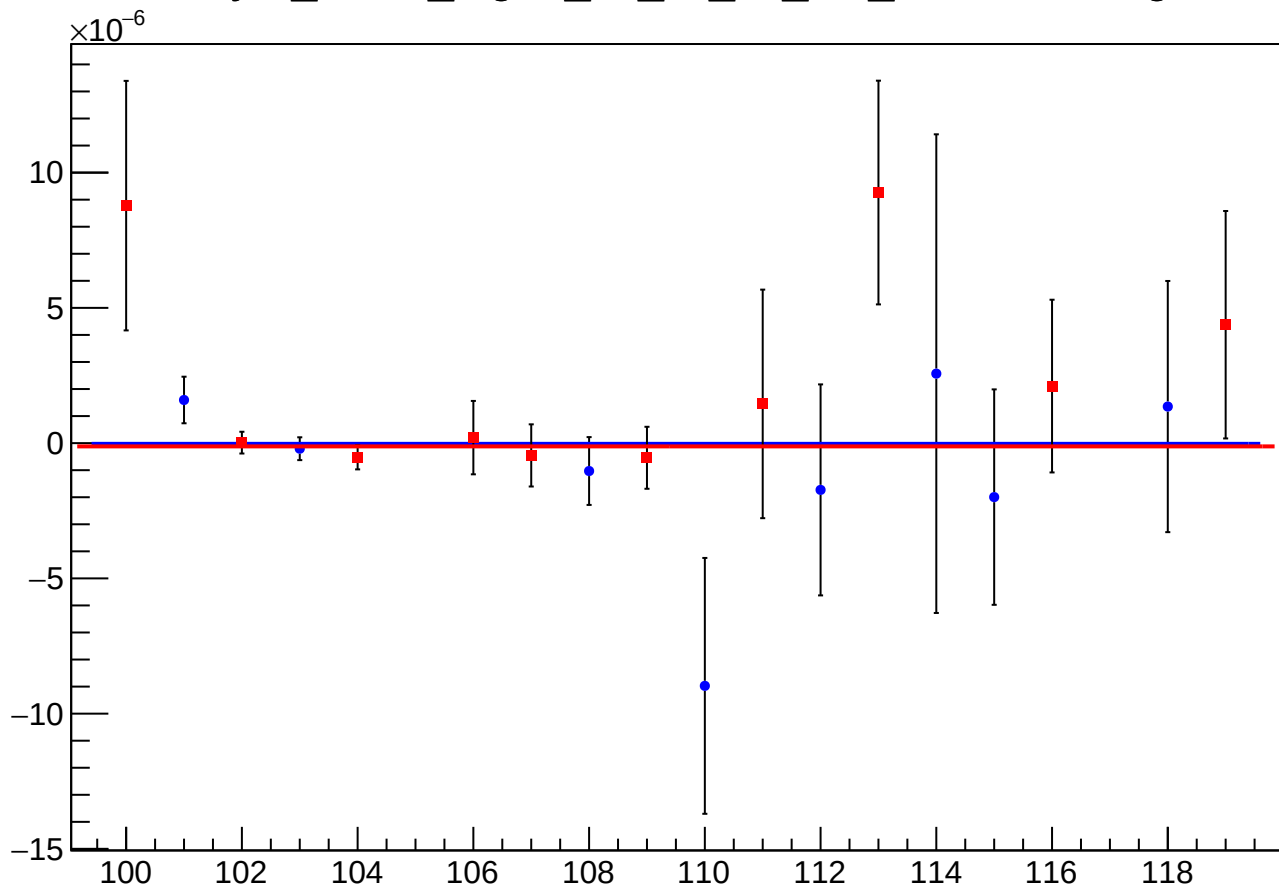
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.569+/-0.005  $\chi^2/\text{NDF}$ : 2535043.7/17

- 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  $\chi^2$ /NDF: 8.6/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 11.8/9

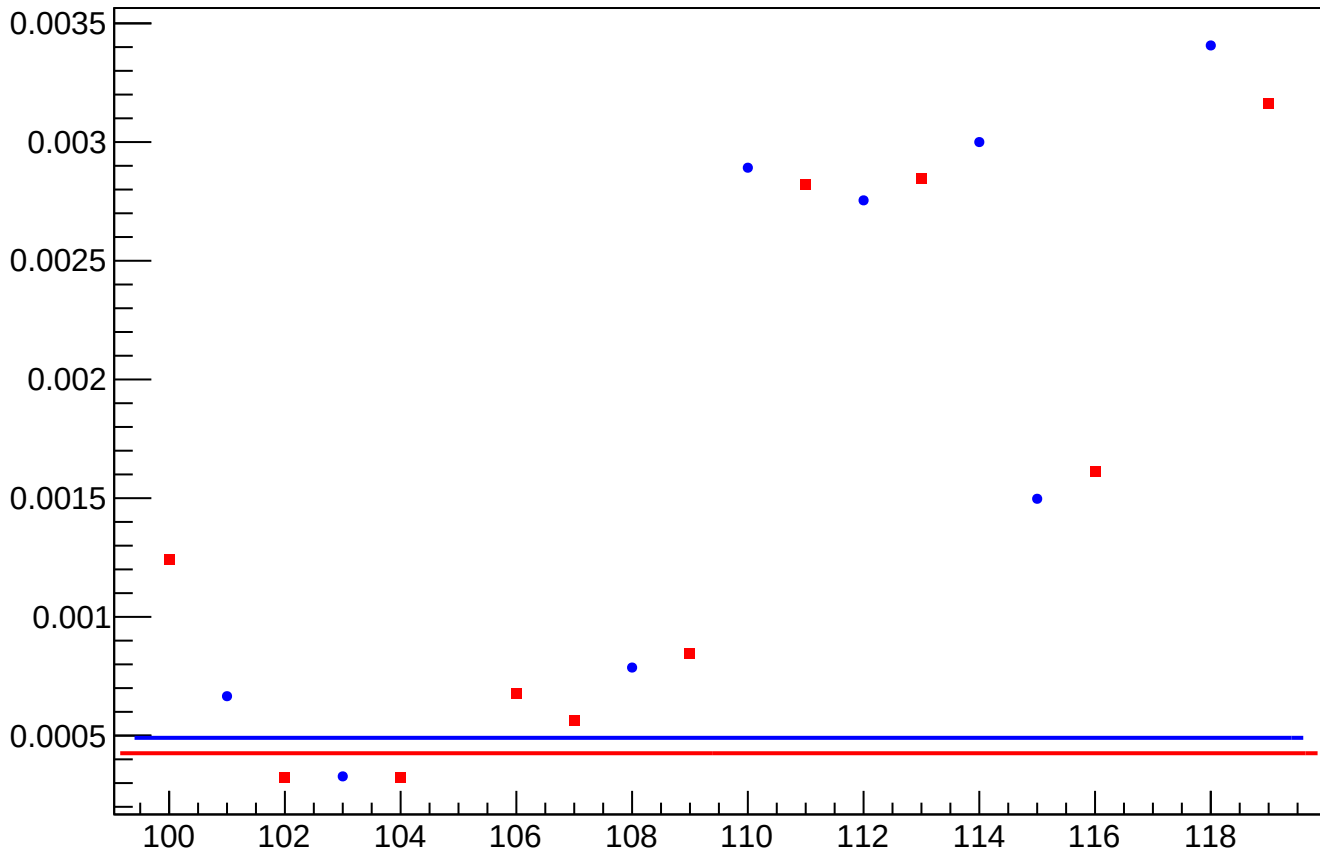
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 20.4/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2758242.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3113840.5/9

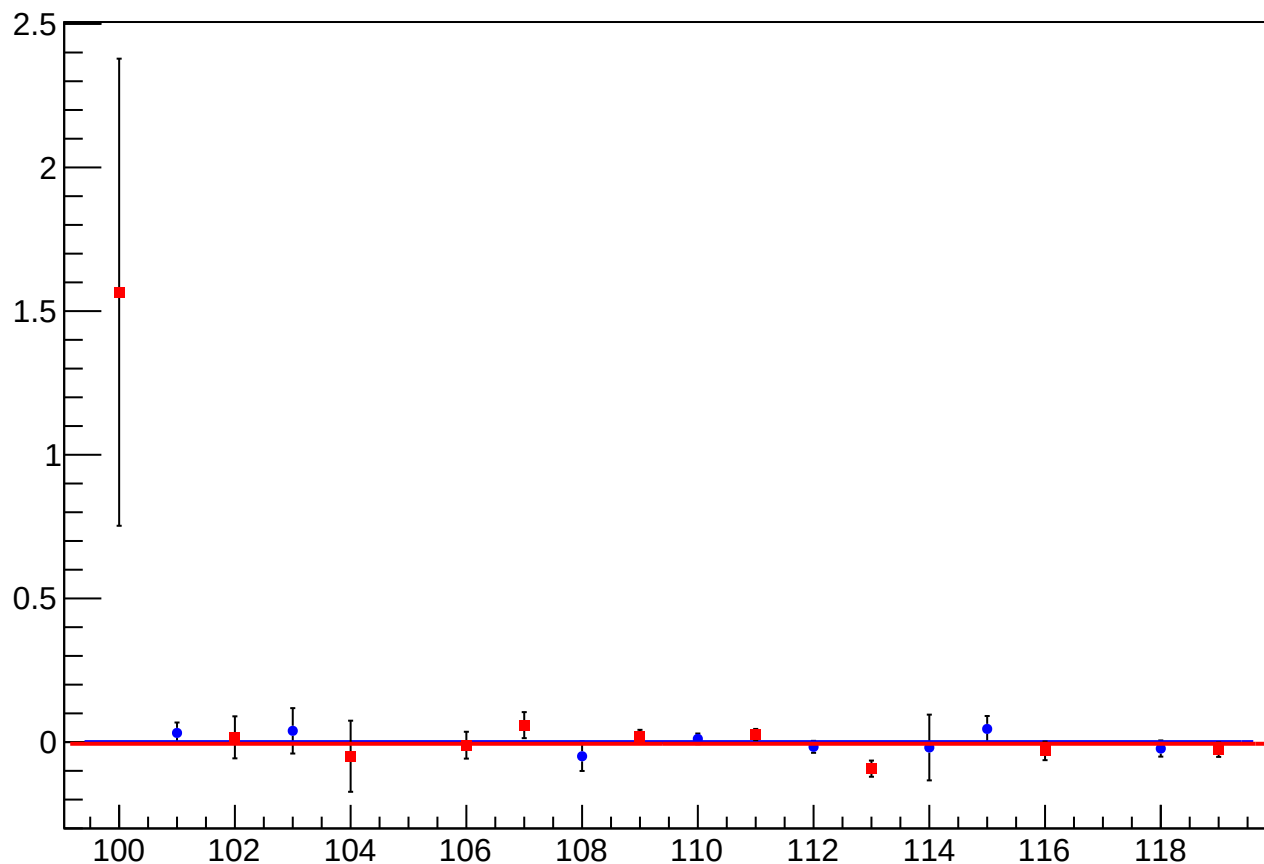
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5913908.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.011$   $\chi^2/\text{NDF}$ : 4.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.006 \pm 0.010$   $\chi^2/\text{NDF}$ : 20.7/9

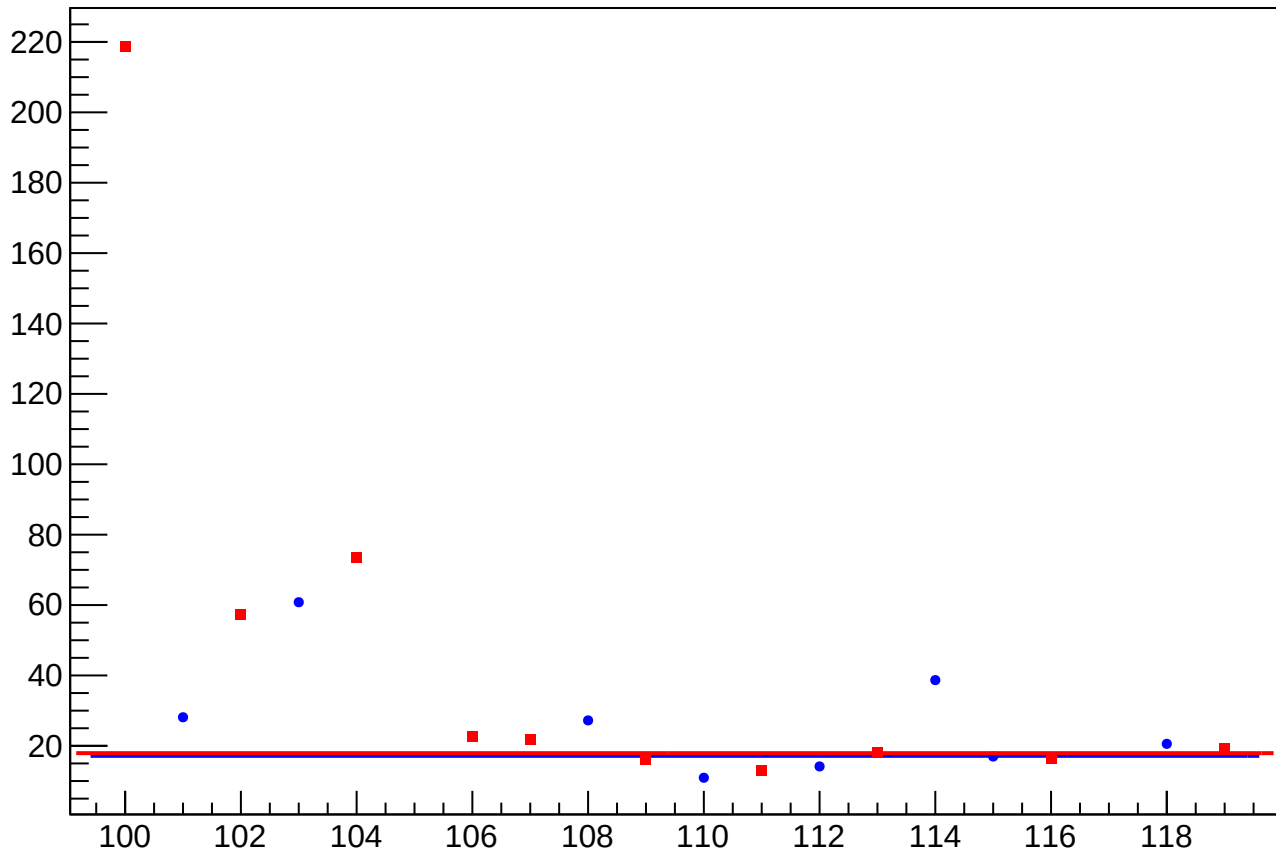
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.003 \pm 0.007$   $\chi^2/\text{NDF}$ : 25.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 17.168 $\pm$ 0.008  $\chi^2$ /NDF: 1236852.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.922 $\pm$ 0.007  $\chi^2$ /NDF: 1293004.9/9

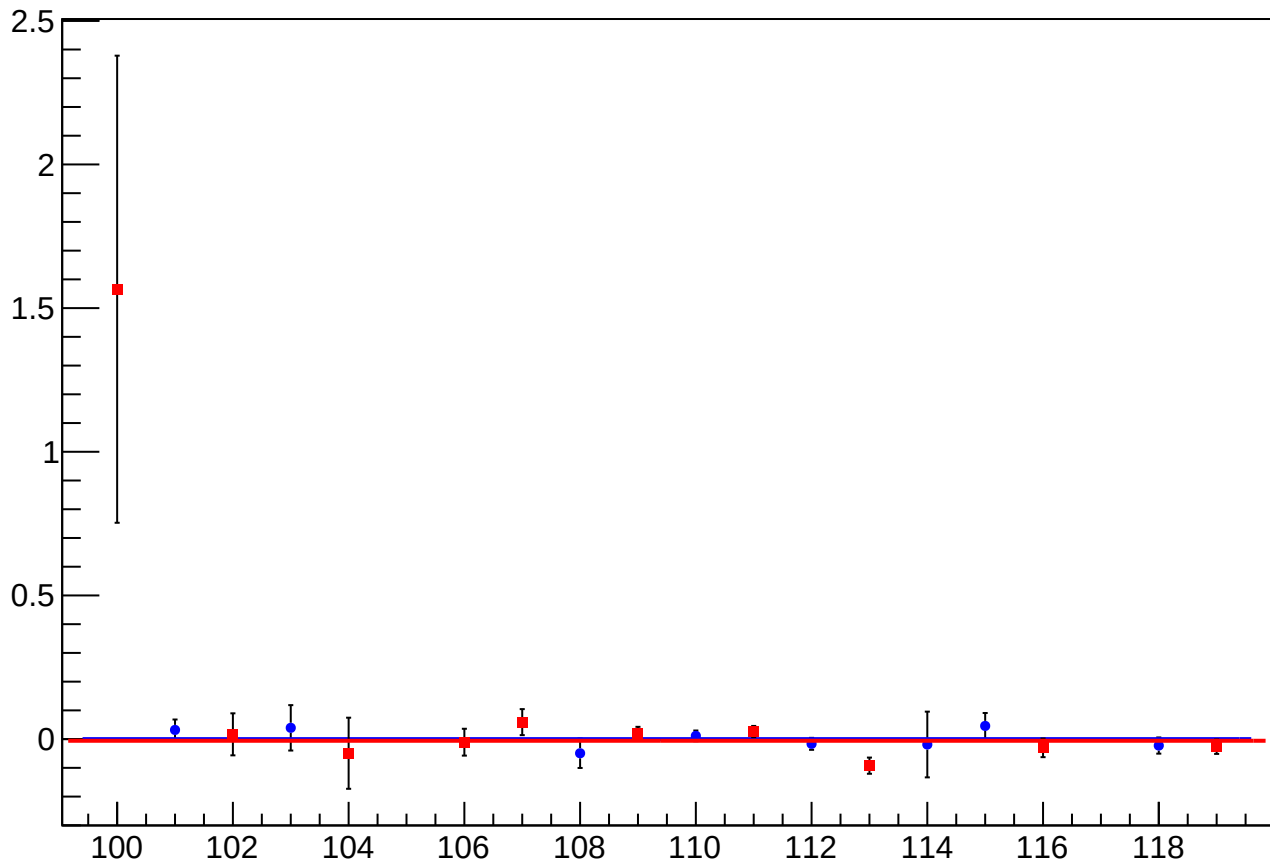
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.570 $\pm$ 0.005  $\chi^2$ /NDF: 2534907.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam7\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.011  $\chi^2/\text{NDF}$ : 4.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.006+/-0.010  $\chi^2/\text{NDF}$ : 20.7/9

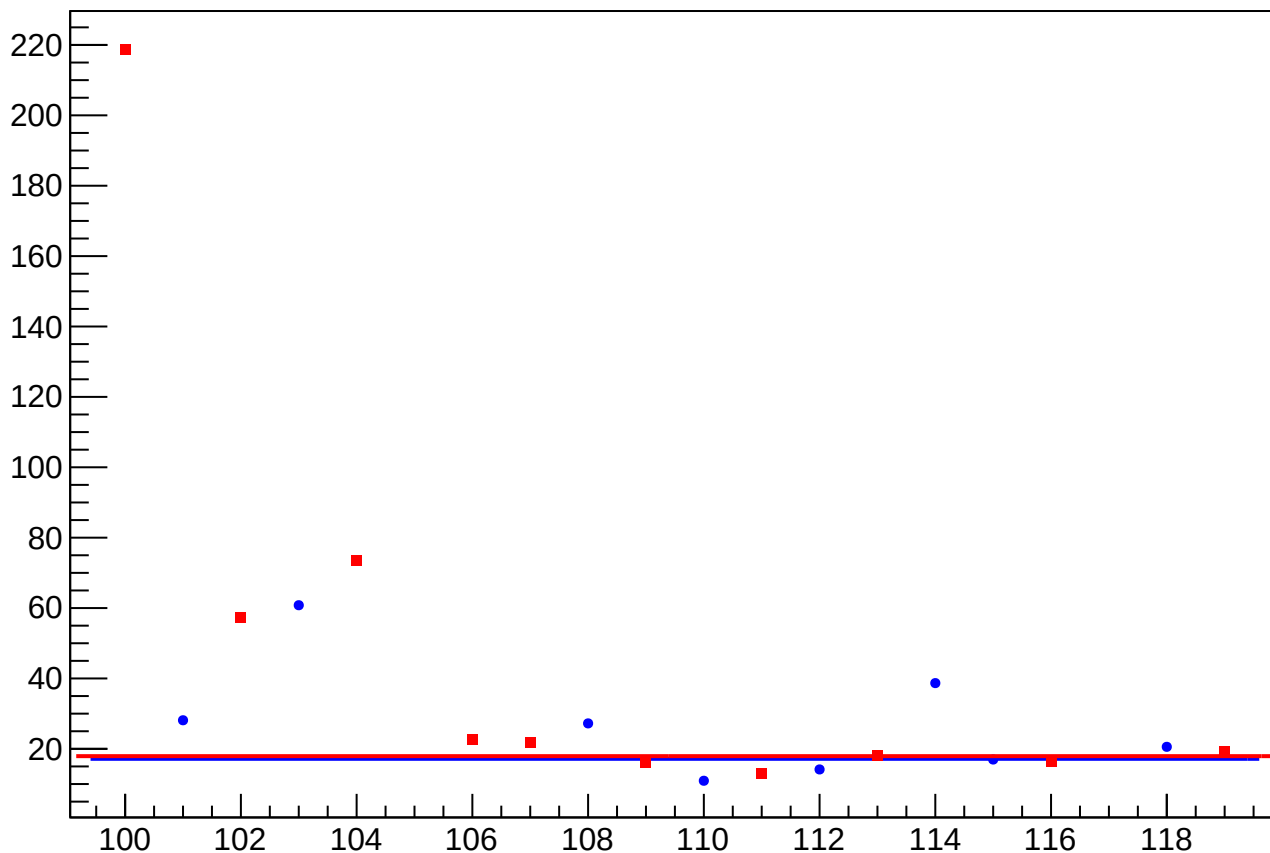
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.003+/-0.007  $\chi^2/\text{NDF}$ : 25.5/17

- 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: 17.168 $\pm$ 0.008  $\chi^2$ /NDF: 1236852.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 17.922 $\pm$ 0.007  $\chi^2$ /NDF: 1293004.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

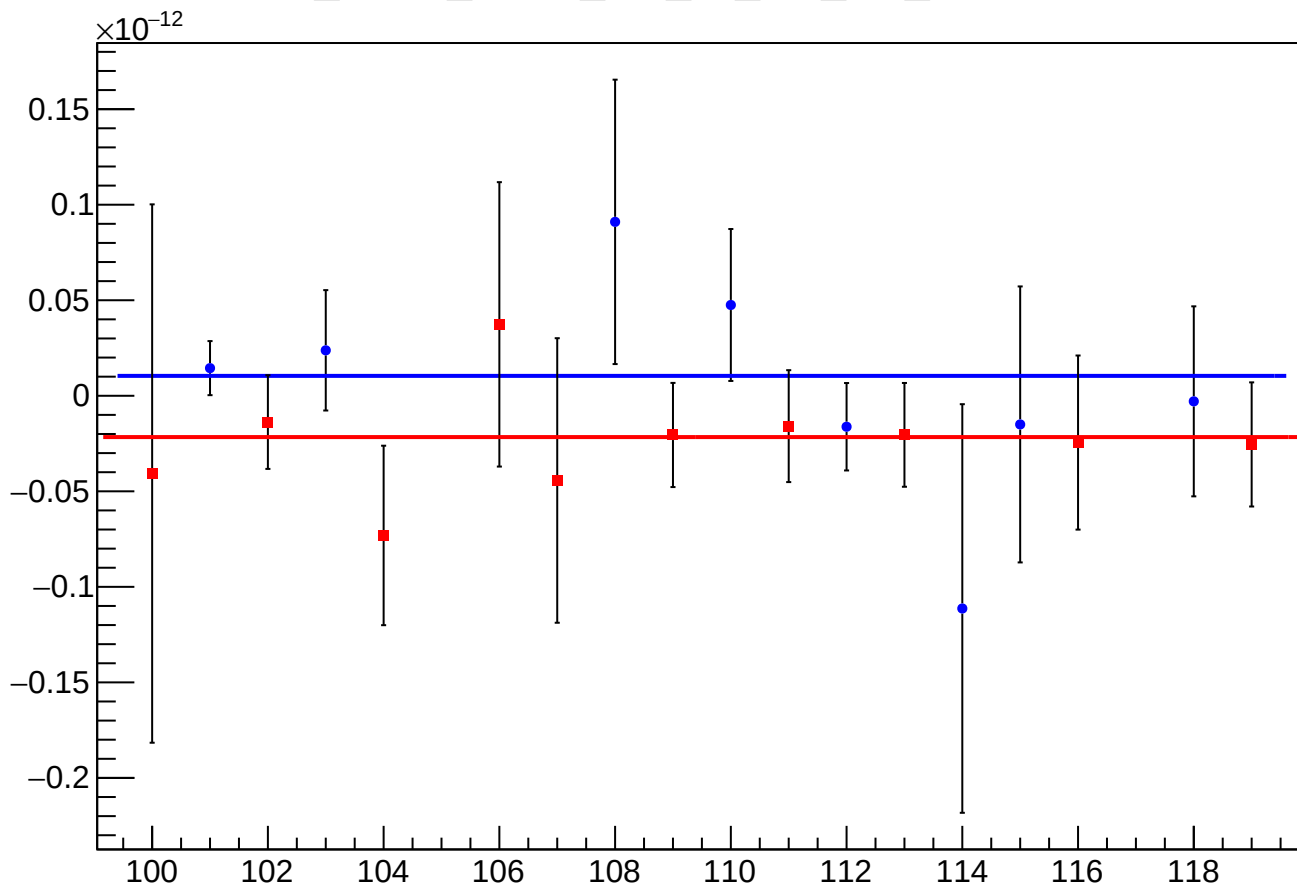
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.570 $\pm$ 0.005  $\chi^2$ /NDF: 2534907.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam7\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.1/9

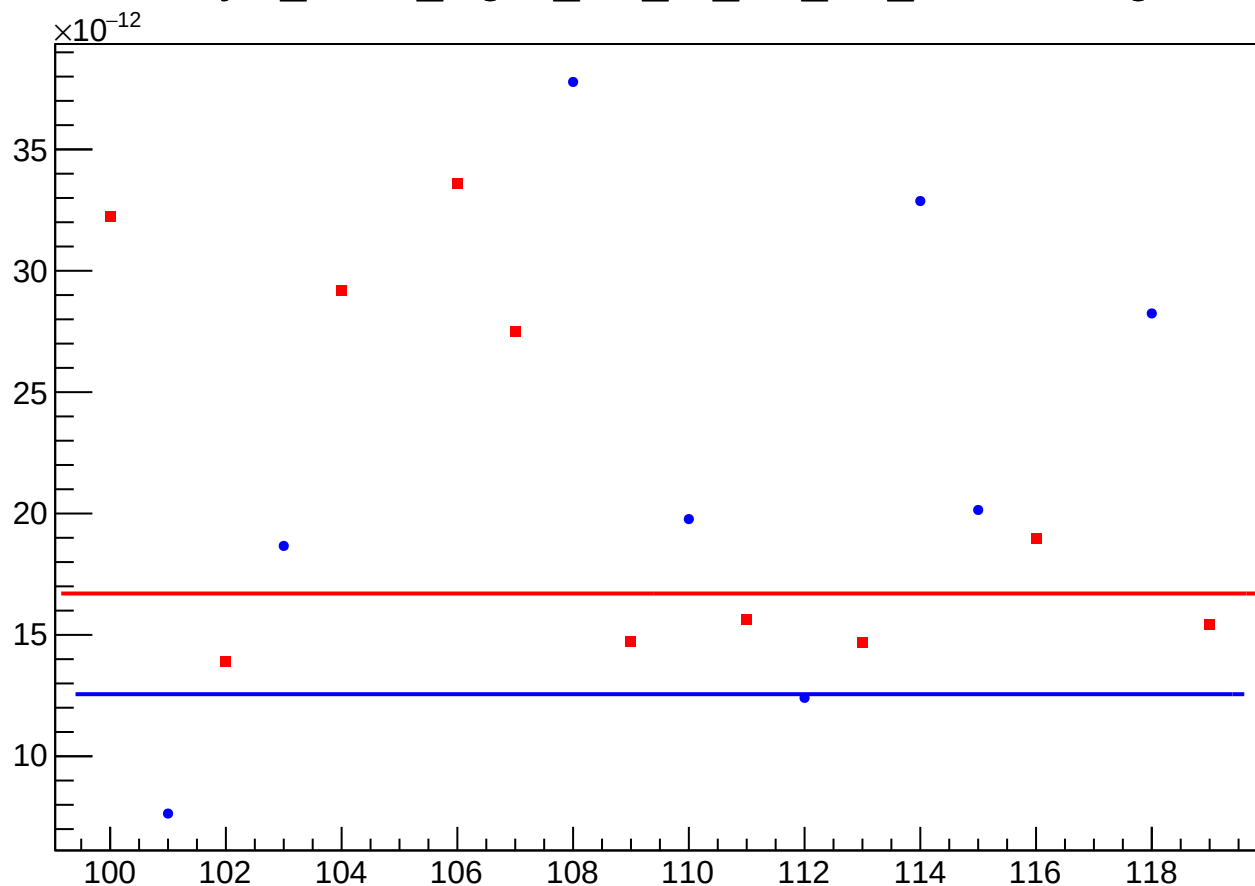
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 905684.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 369416.8/9

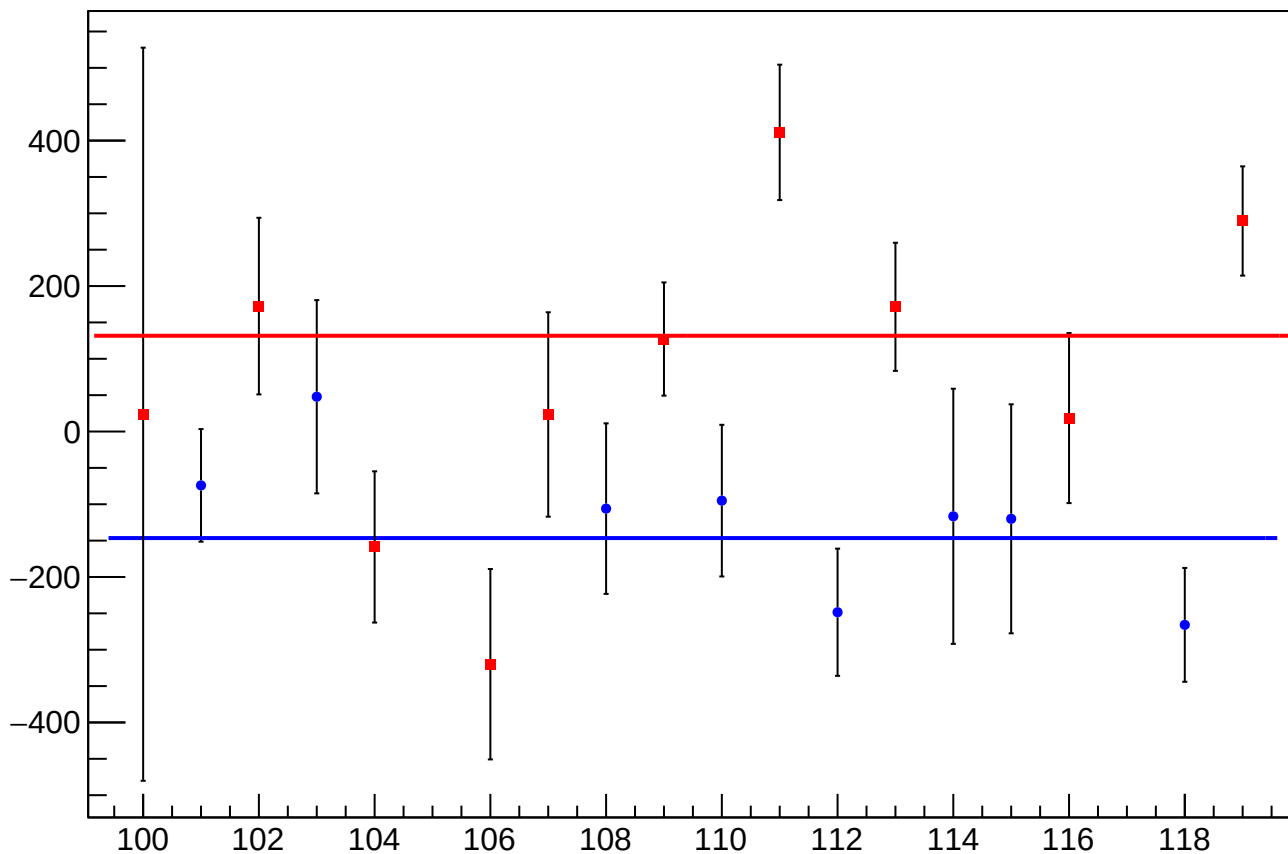
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1422081.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_mean vs Slug



Right In: -146.488 $\pm$ 36.395  $\chi^2$ /NDF: 7.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 131.663 $\pm$ 32.736  $\chi^2$ /NDF: 35.0/9

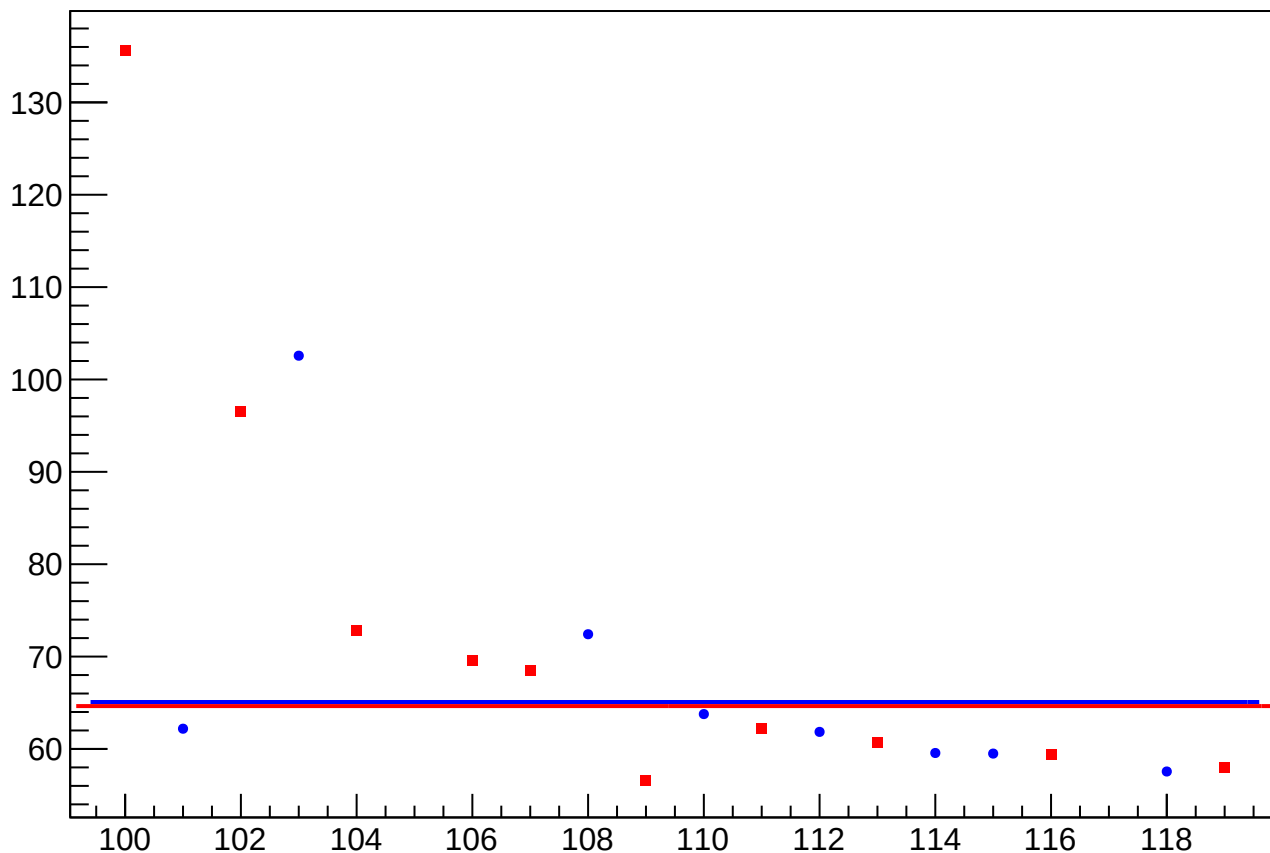
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.267 $\pm$ 24.339  $\chi^2$ /NDF: 74.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam8\_rms vs Slug



Right In: 65.081+/-0.026  $\chi^2/\text{NDF}$ : 195877.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.640+/-0.023  $\chi^2/\text{NDF}$ : 240781.9/9

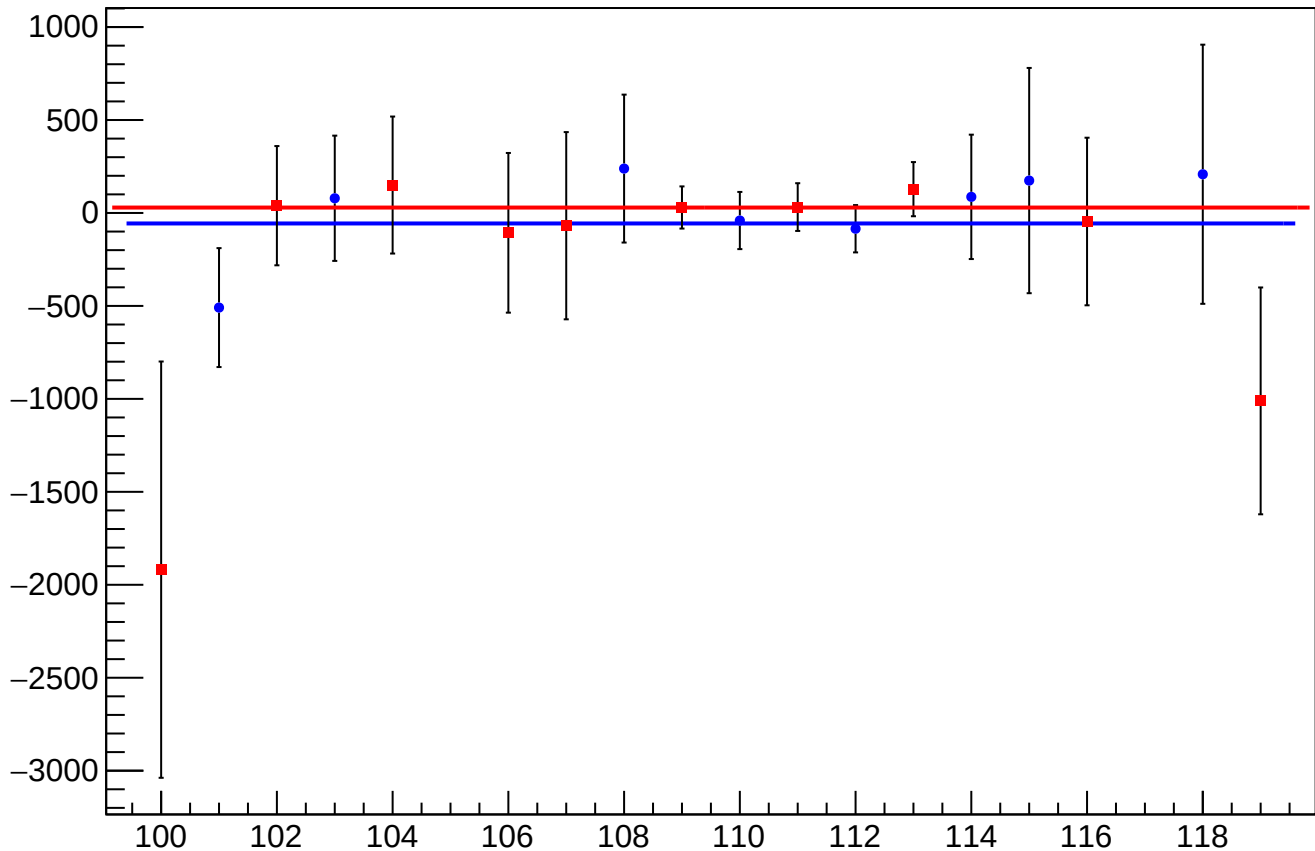
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.837+/-0.017  $\chi^2/\text{NDF}$ : 436821.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_reg\_correction\_mean vs Slug



Right In: -56.458 $\pm$ 83.724  $\chi^2$ /NDF: 3.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 29.102 $\pm$ 67.349  $\chi^2$ /NDF: 6.7/9

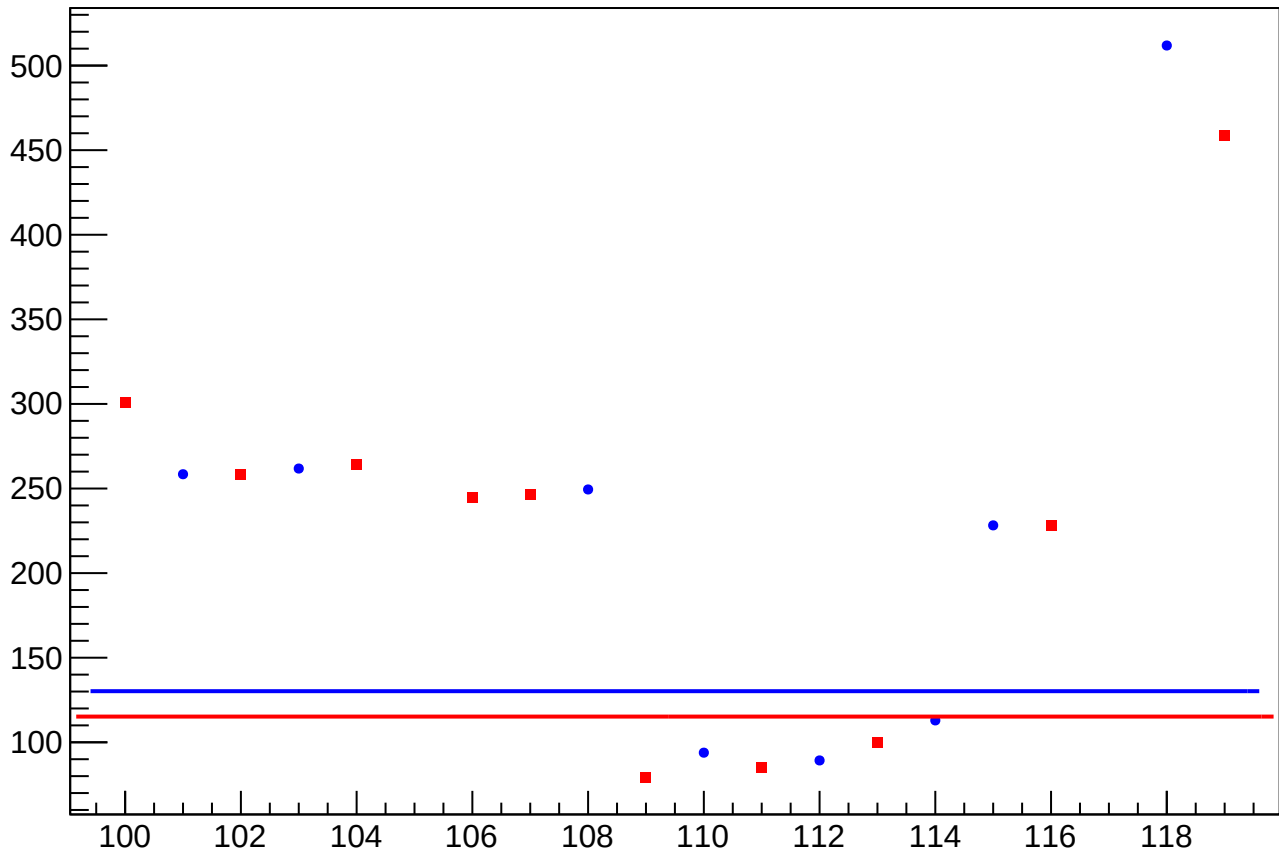
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -4.512 $\pm$ 52.478  $\chi^2$ /NDF: 10.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_reg\_correction\_rms vs Slug



Right In: 130.215 $\pm$ 0.059  $\chi^2$ /NDF: 1782333.7/7

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

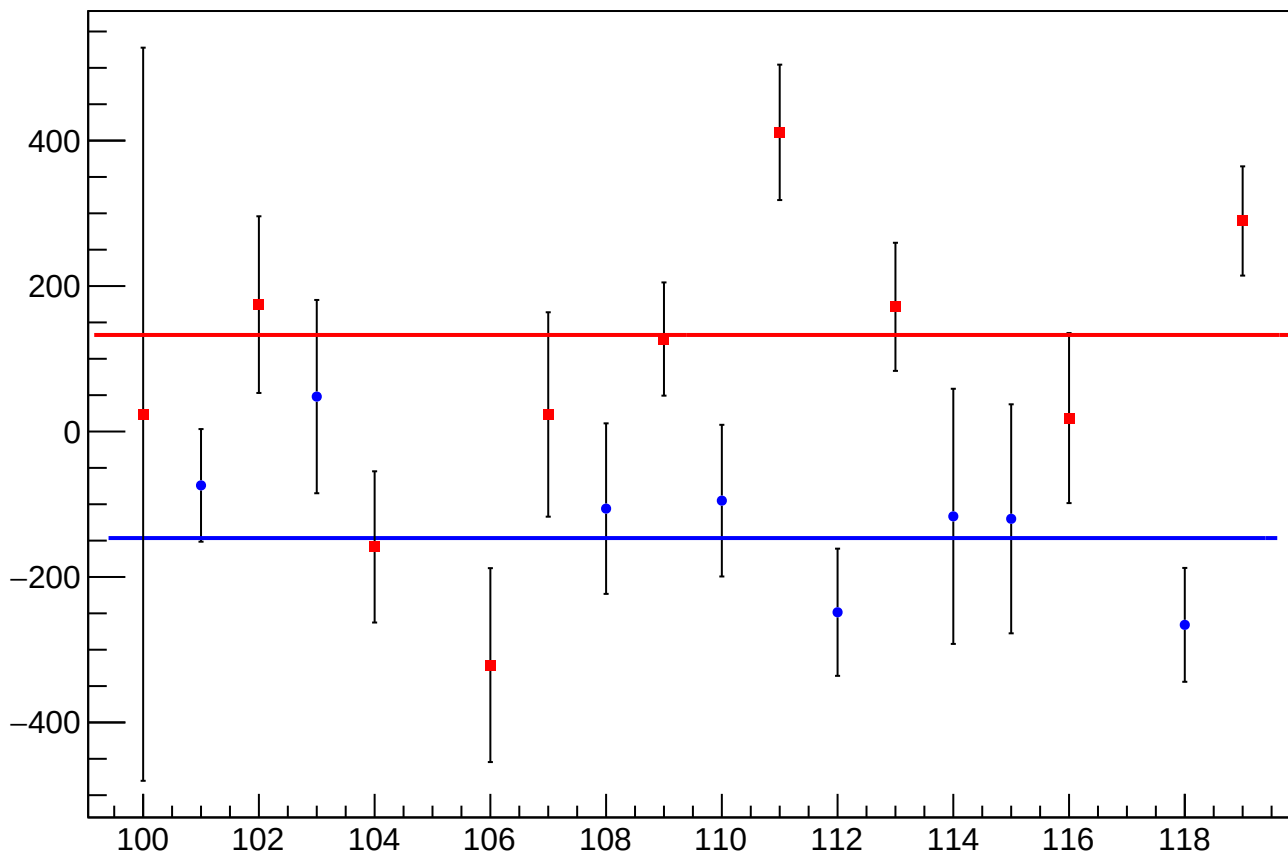
Right Out: 115.200 $\pm$ 0.048  $\chi^2$ /NDF: 2190886.0/9

All: 121.099 $\pm$ 0.037  $\chi^2$ /NDF: 4012270.8/17

- 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\_sam8\_mean vs Slug



Right In:  $-146.487 \pm 36.395$   $\chi^2/\text{NDF}$ : 7.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $132.758 \pm 32.774$   $\chi^2/\text{NDF}$ : 34.7/9

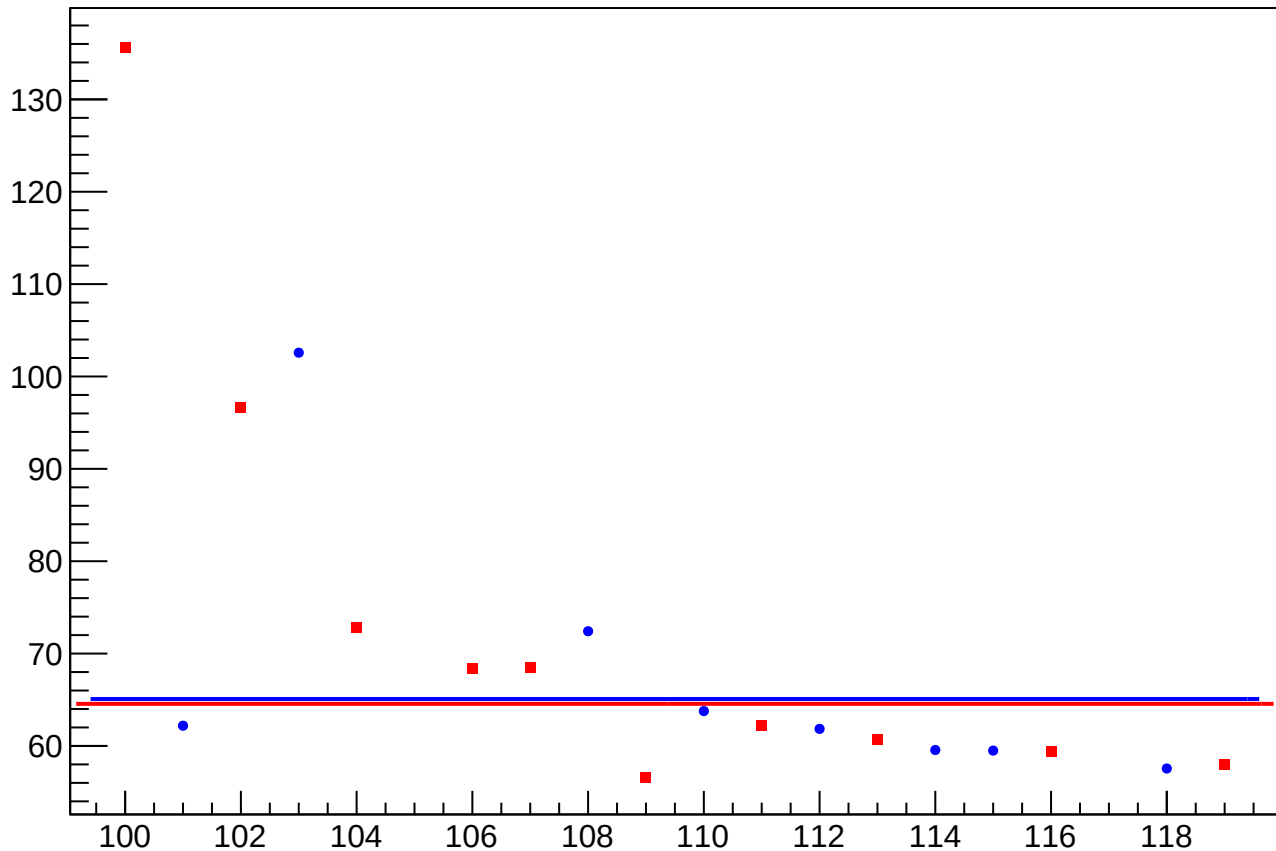
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $7.714 \pm 24.354$   $\chi^2/\text{NDF}$ : 74.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam8\_rms vs Slug



Right In: 65.081+/-0.026  $\chi^2/\text{NDF}$ : 195879.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.559+/-0.023  $\chi^2/\text{NDF}$ : 239709.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

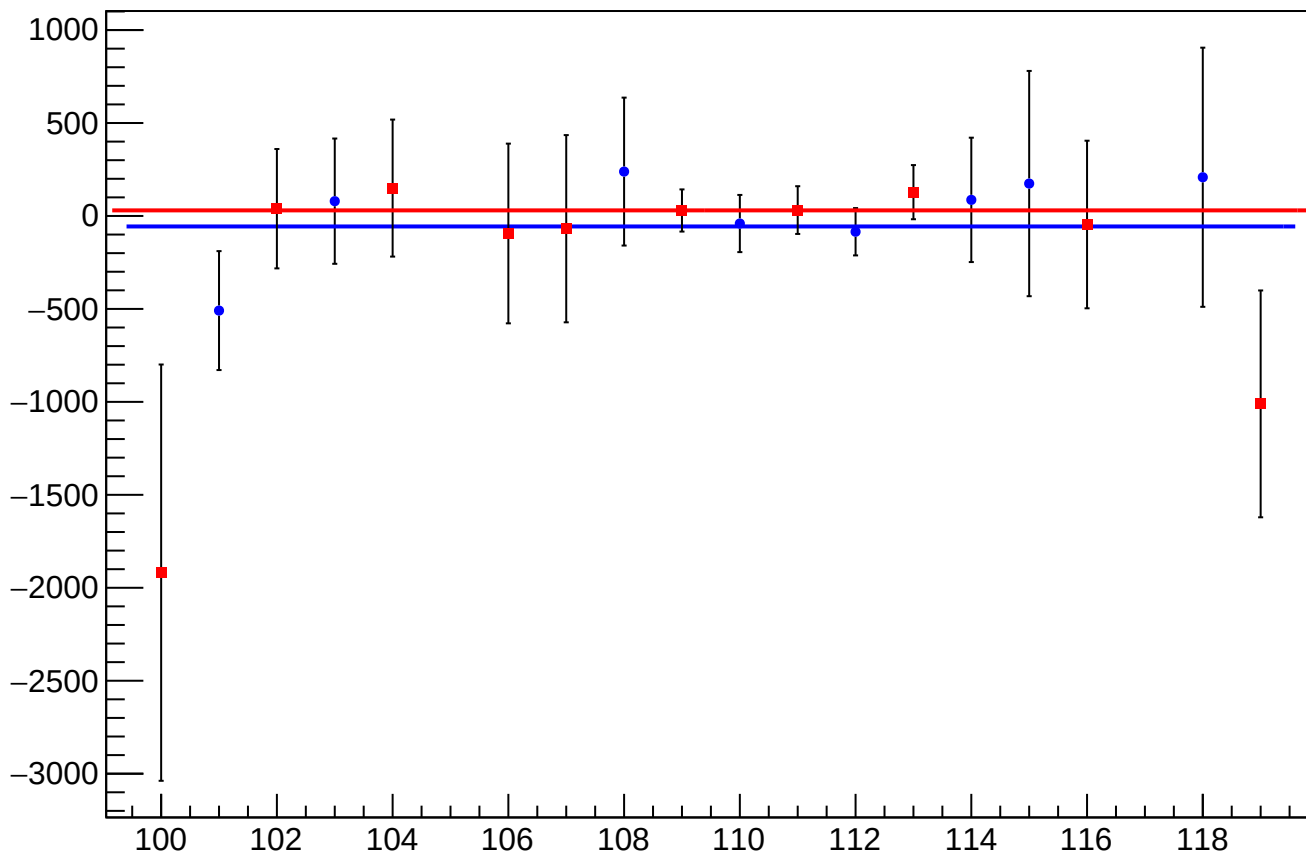
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.793+/-0.017  $\chi^2/\text{NDF}$ : 435816.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam8\_cor\_correction\_mean vs Slug



Right In: -56.436 $\pm$ 83.725  $\chi^2$ /NDF: 3.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 30.033 $\pm$ 67.527  $\chi^2$ /NDF: 6.6/9

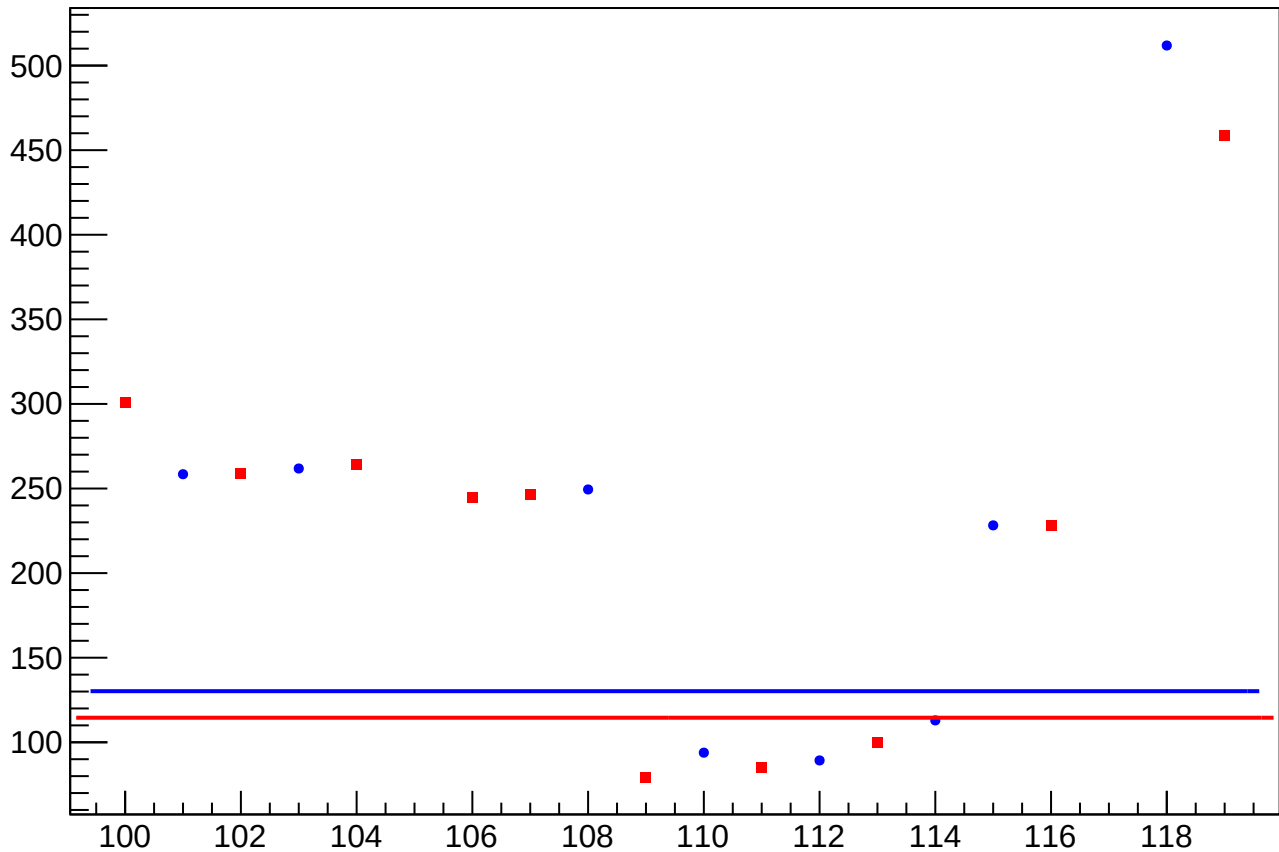
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -4.046 $\pm$ 52.562  $\chi^2$ /NDF: 10.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_cor\_correction\_rms vs Slug



Right In: 130.215 $\pm$ 0.059  $\chi^2$ /NDF: 1782388.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 114.528 $\pm$ 0.048  $\chi^2$ /NDF: 2153671.2/9

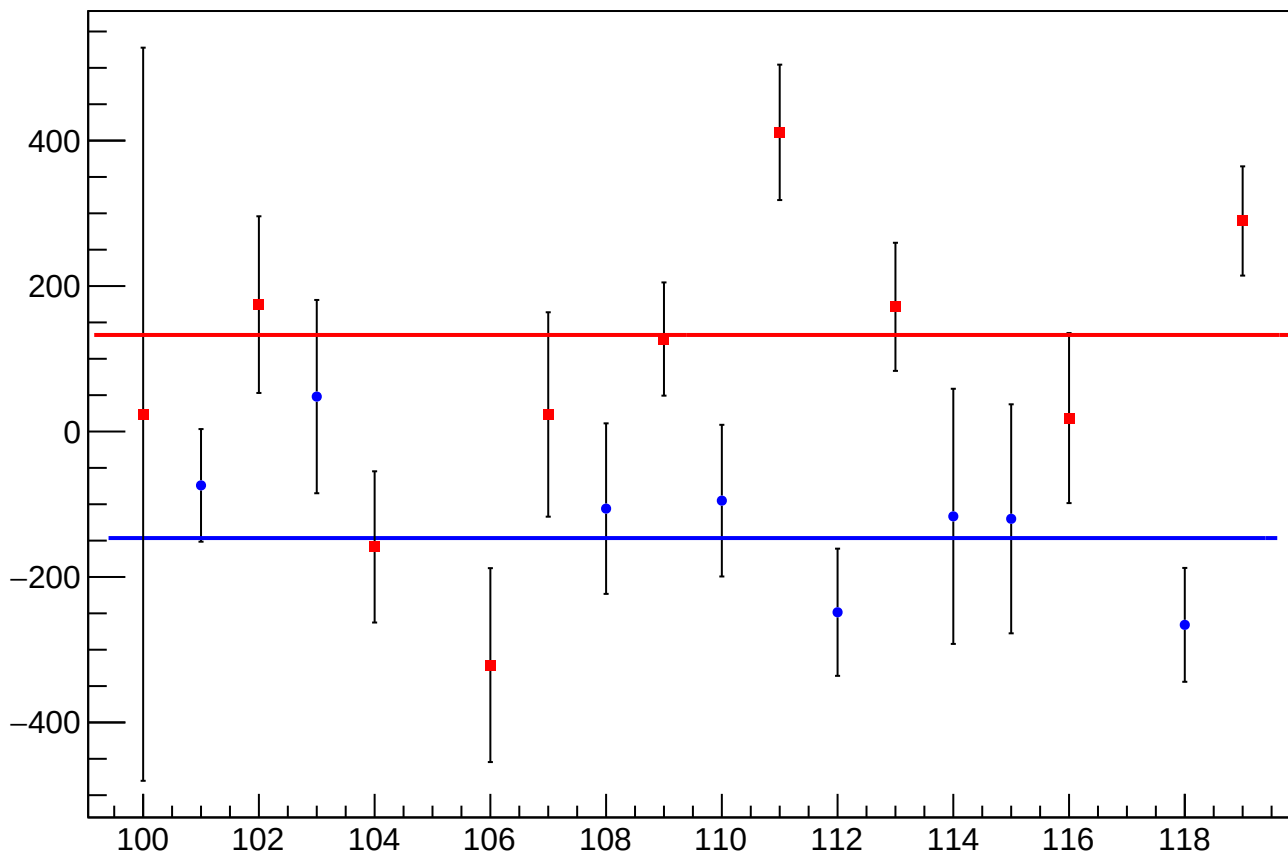
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.711 $\pm$ 0.037  $\chi^2$ /NDF: 3978594.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam8\_mean vs Slug



Right In:  $-146.487 \pm 36.395$   $\chi^2/\text{NDF}$ : 7.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $132.758 \pm 32.774$   $\chi^2/\text{NDF}$ : 34.7/9

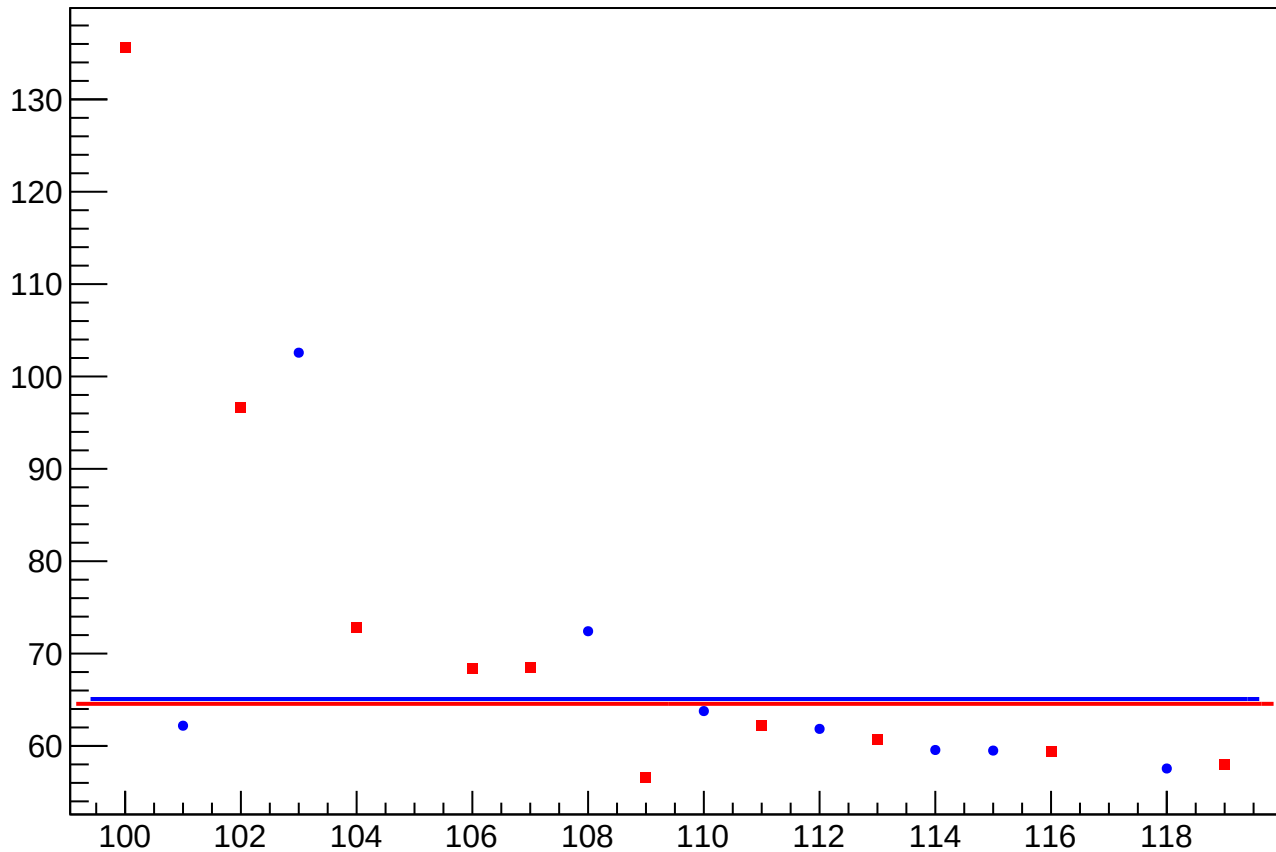
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $7.714 \pm 24.354$   $\chi^2/\text{NDF}$ : 74.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam8\_rms vs Slug



Right In: 65.081+/-0.026  $\chi^2/\text{NDF}$ : 195879.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.559+/-0.023  $\chi^2/\text{NDF}$ : 239709.4/9

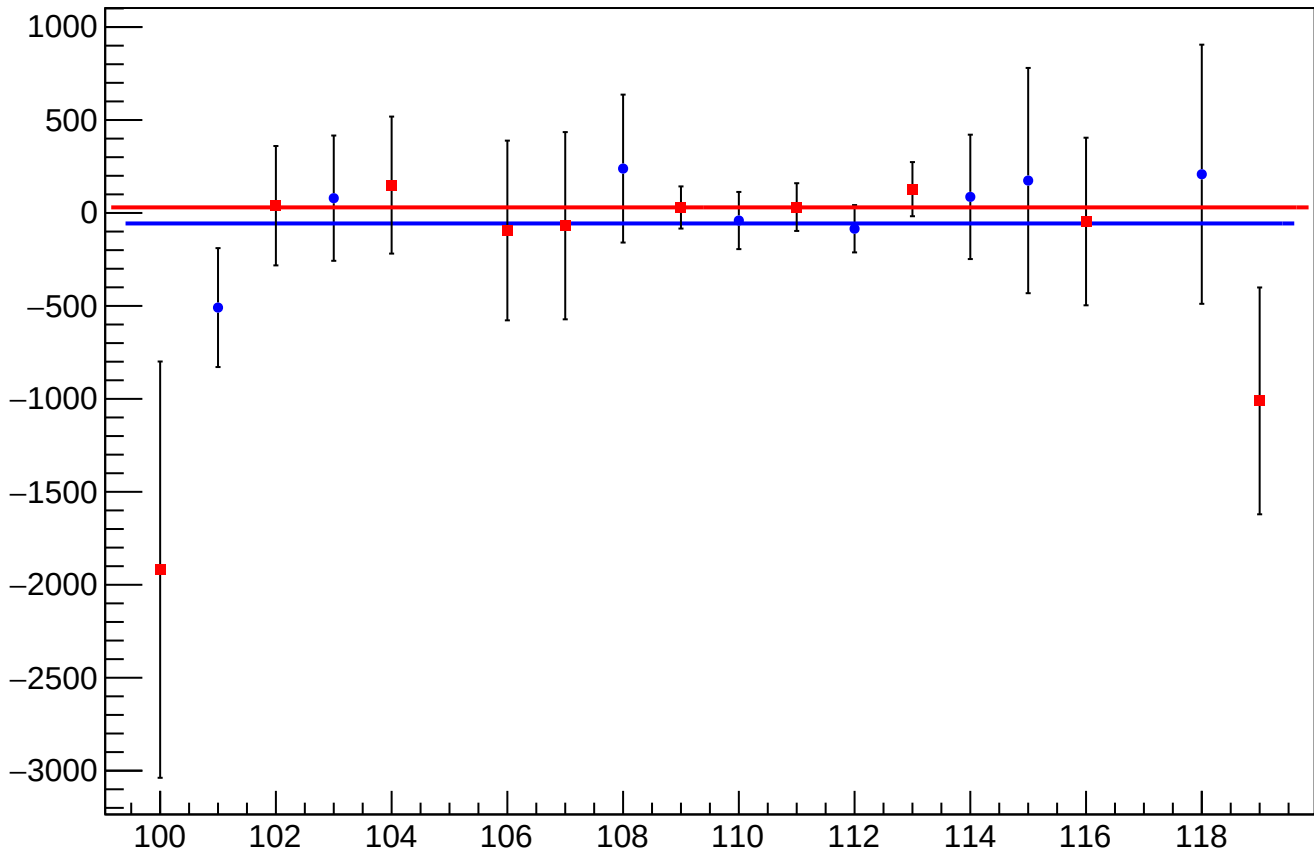
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.793+/-0.017  $\chi^2/\text{NDF}$ : 435816.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_eigen\_cor\_correction\_mean vs Slug



Right In: -56.436 $\pm$ 83.725  $\chi^2$ /NDF: 3.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 30.033 $\pm$ 67.527  $\chi^2$ /NDF: 6.6/9

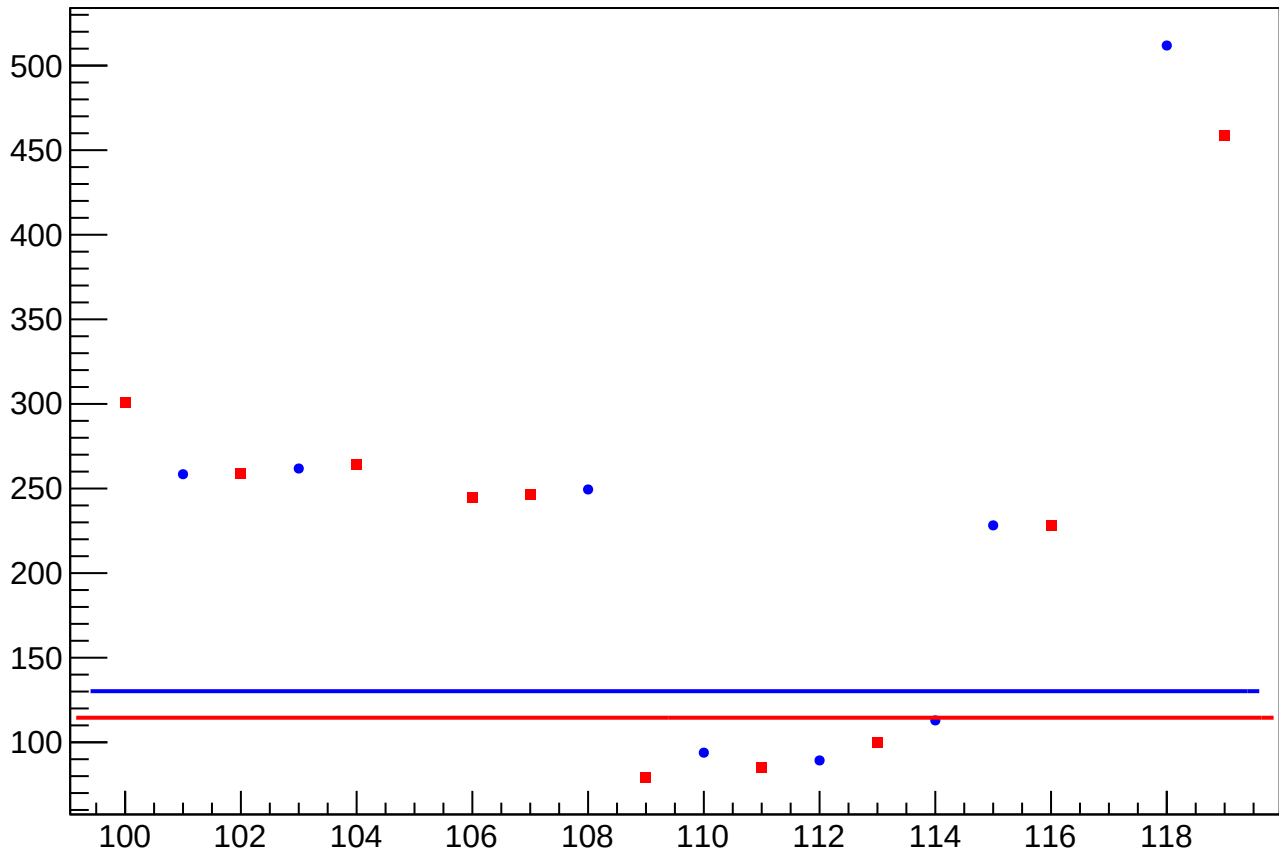
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -4.046 $\pm$ 52.562  $\chi^2$ /NDF: 10.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_eigen\_cor\_correction\_rms vs Slug



Right In: 130.215 $\pm$ 0.059  $\chi^2$ /NDF: 1782388.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 114.528 $\pm$ 0.048  $\chi^2$ /NDF: 2153671.2/9

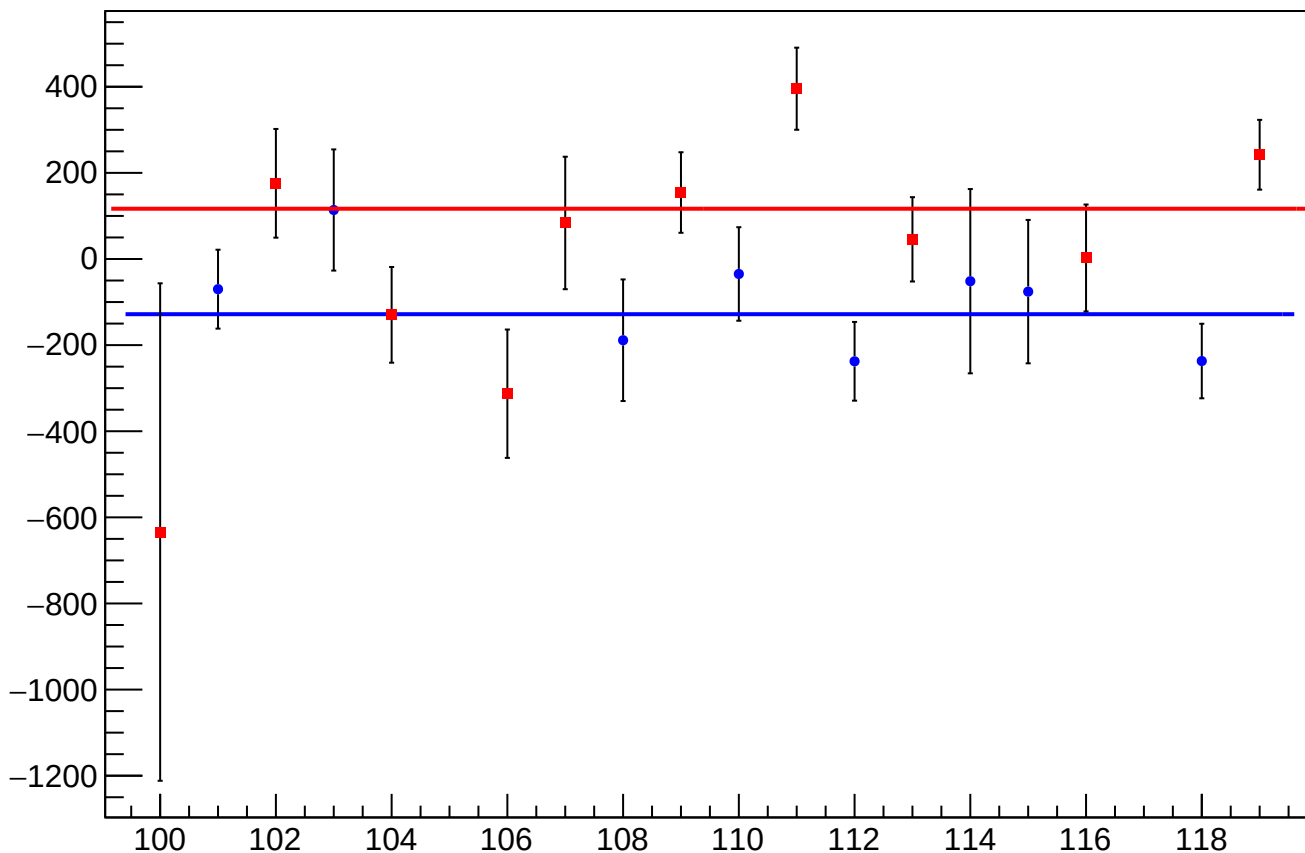
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.711 $\pm$ 0.037  $\chi^2$ /NDF: 3978594.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam8\_mean vs Slug



Right In:  $-128.209 \pm 40.305$   $\chi^2/\text{NDF}$ : 7.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $116.734 \pm 35.809$   $\chi^2/\text{NDF}$ : 27.7/9

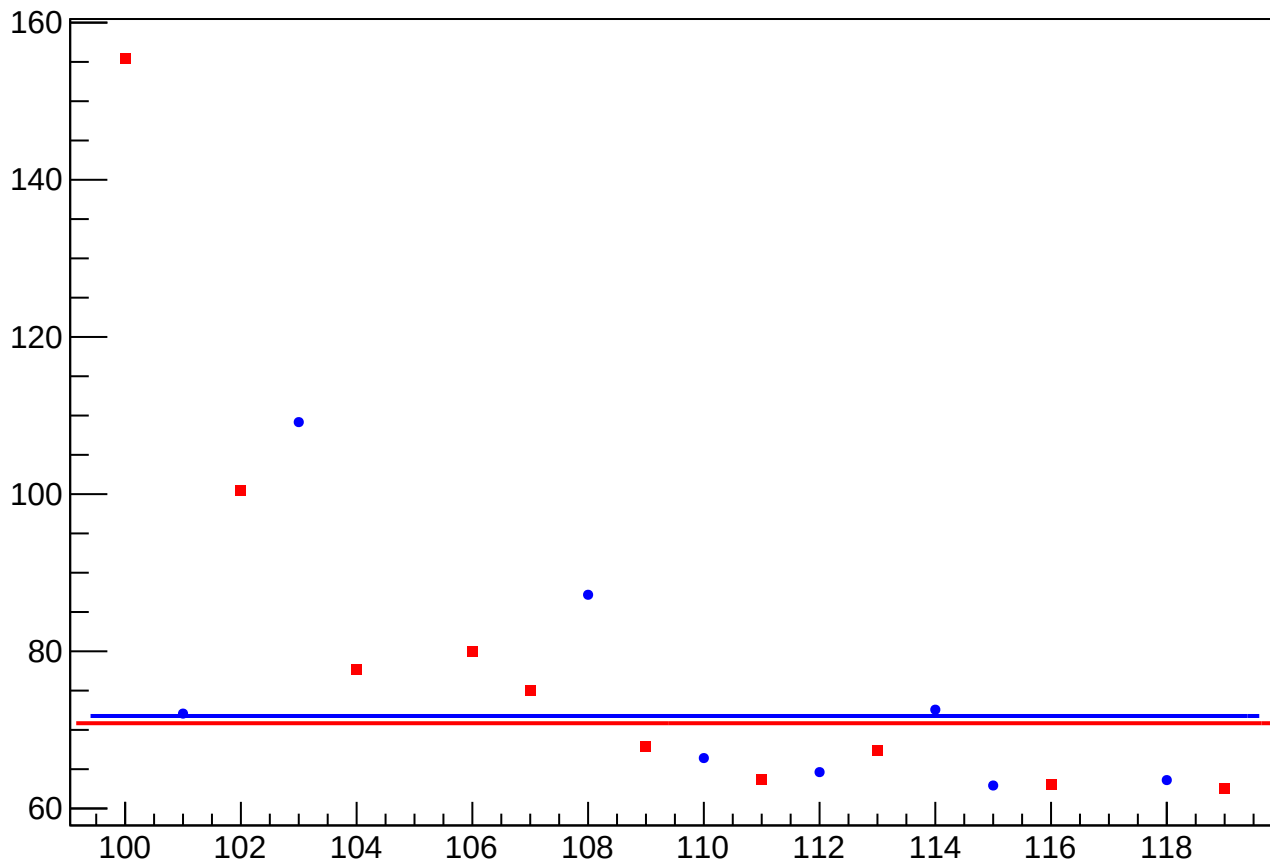
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $8.678 \pm 26.770$   $\chi^2/\text{NDF}$ : 55.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam8\_rms vs Slug



Right In: 71.769+/-0.028  $\chi^2/\text{NDF}$ : 205643.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 70.849+/-0.025  $\chi^2/\text{NDF}$ : 213790.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

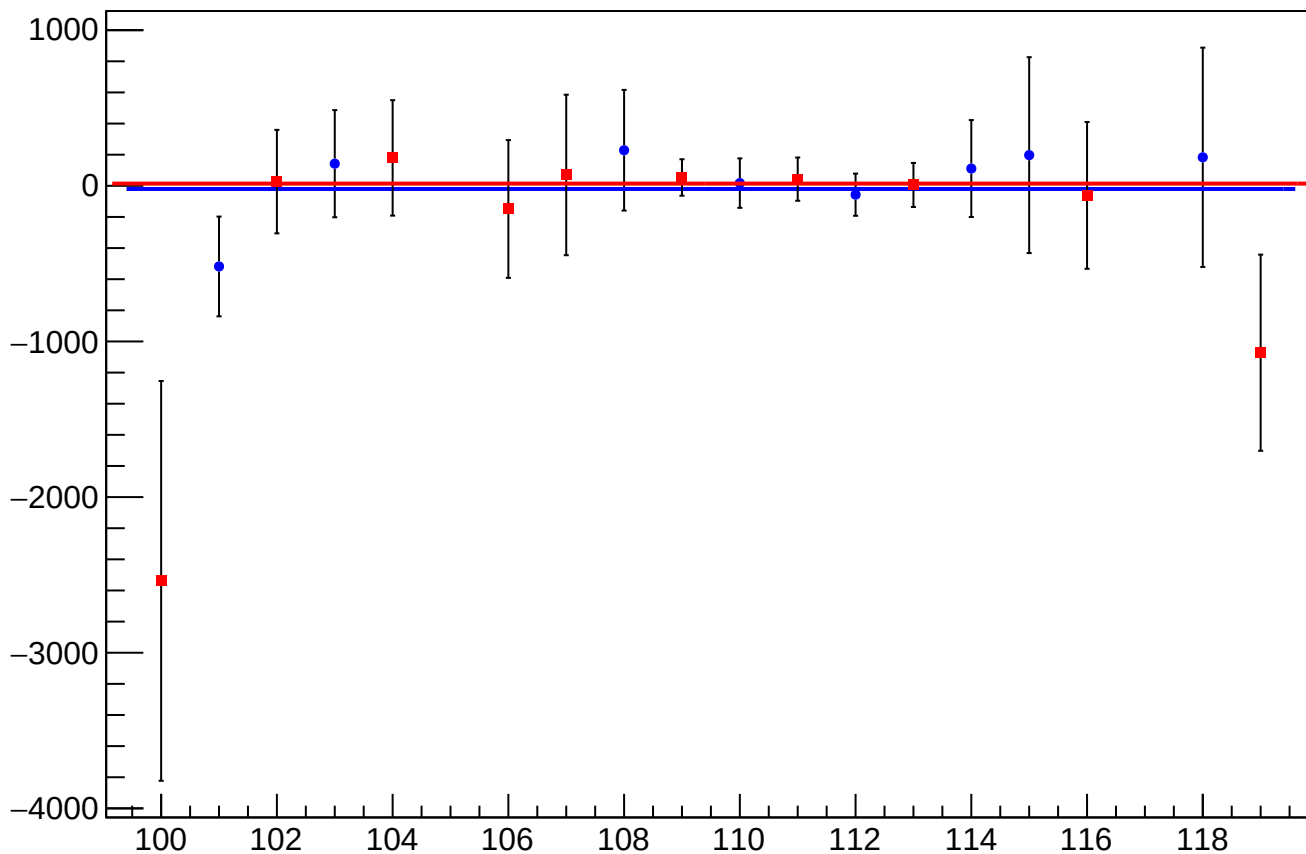
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 71.255+/-0.019  $\chi^2/\text{NDF}$ : 420016.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam8\_dit\_correction\_mean vs Slug



Right In: -20.309 $\pm$ 86.478  $\chi^2$ /NDF: 3.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.186 $\pm$ 69.447  $\chi^2$ /NDF: 7.5/9

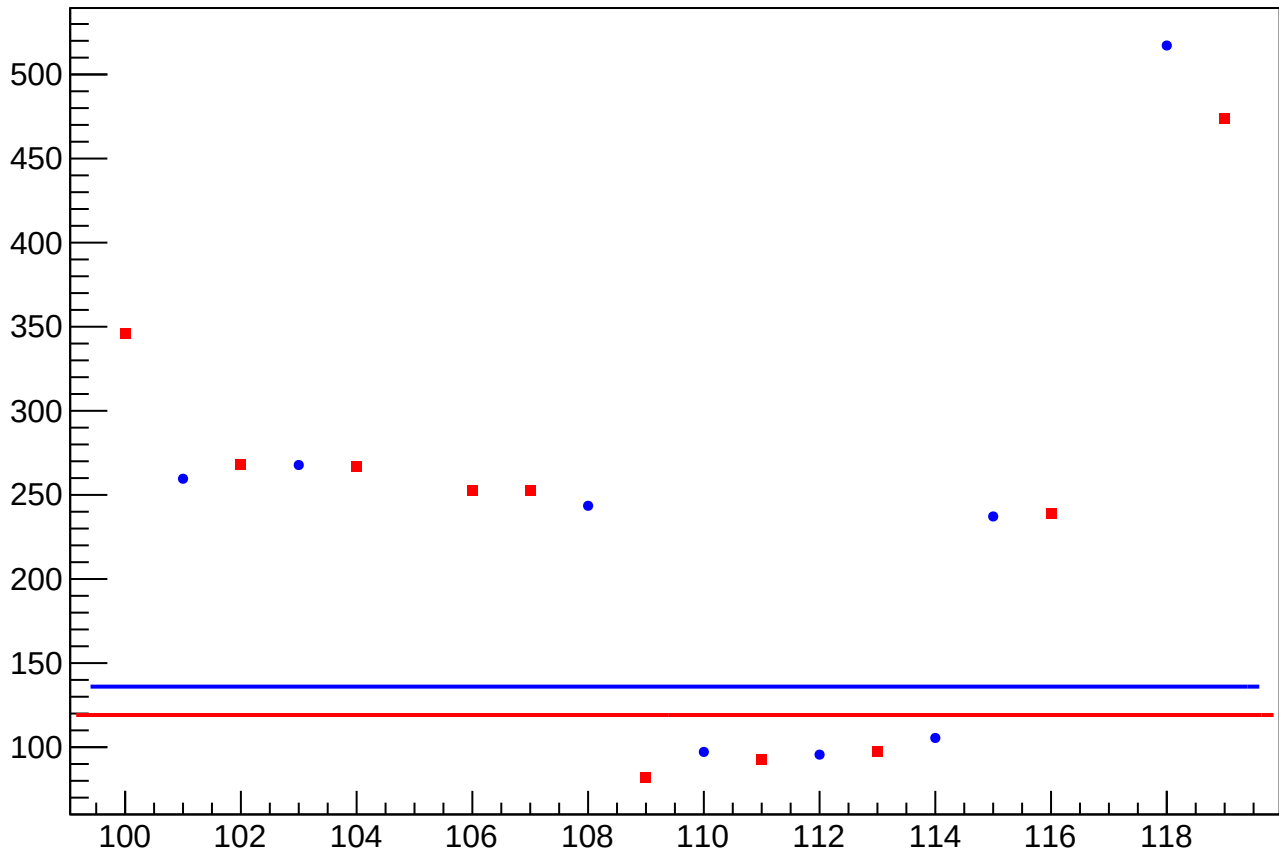
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.662 $\pm$ 54.148  $\chi^2$ /NDF: 11.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_dit\_correction\_rms vs Slug



Right In: 136.011 $\pm$ 0.061  $\chi^2$ /NDF: 1698462.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 119.135 $\pm$ 0.049  $\chi^2$ /NDF: 2181681.8/9

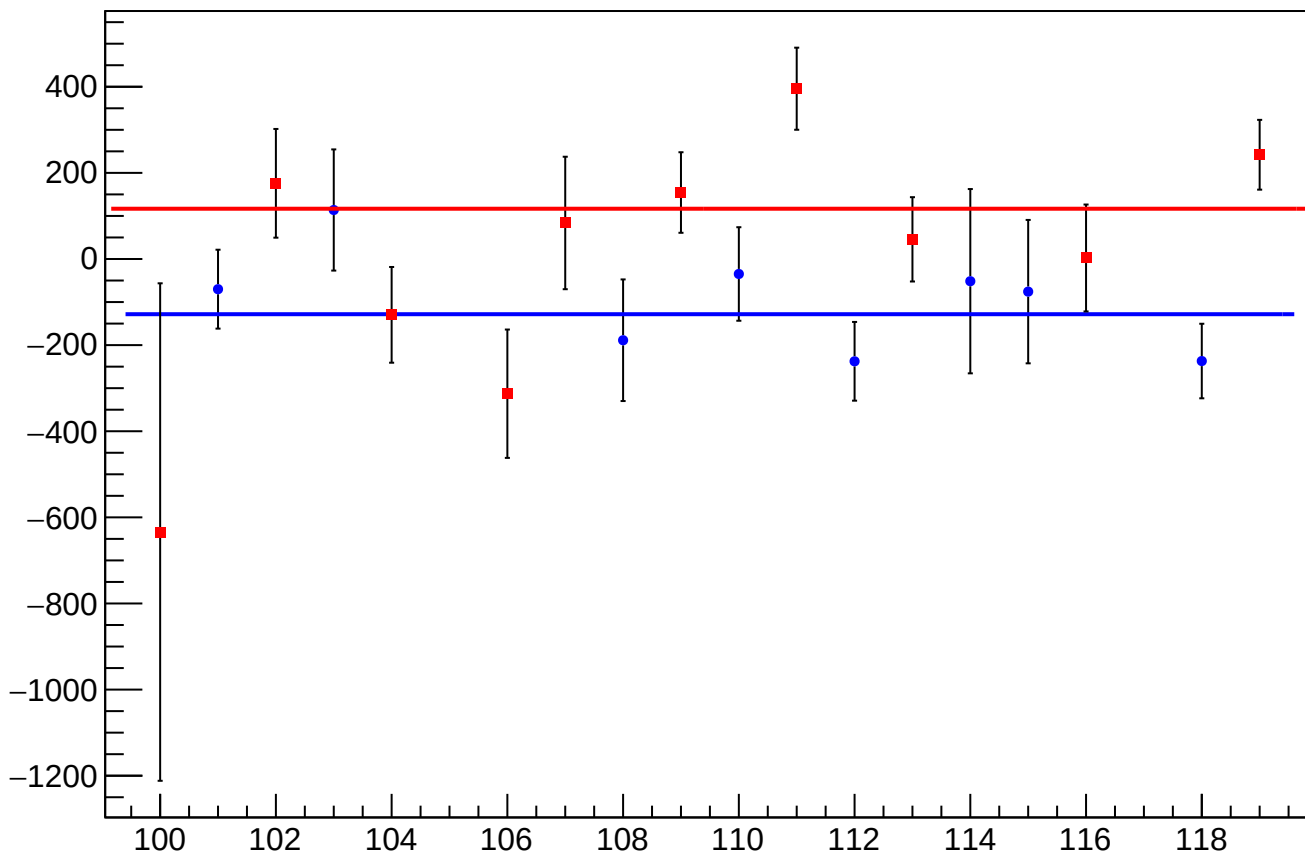
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 125.751 $\pm$ 0.038  $\chi^2$ /NDF: 3926451.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam8\_mean vs Slug



Right In: -128.208 $\pm$ 40.305  $\chi^2$ /NDF: 7.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 116.736 $\pm$ 35.809  $\chi^2$ /NDF: 27.7/9

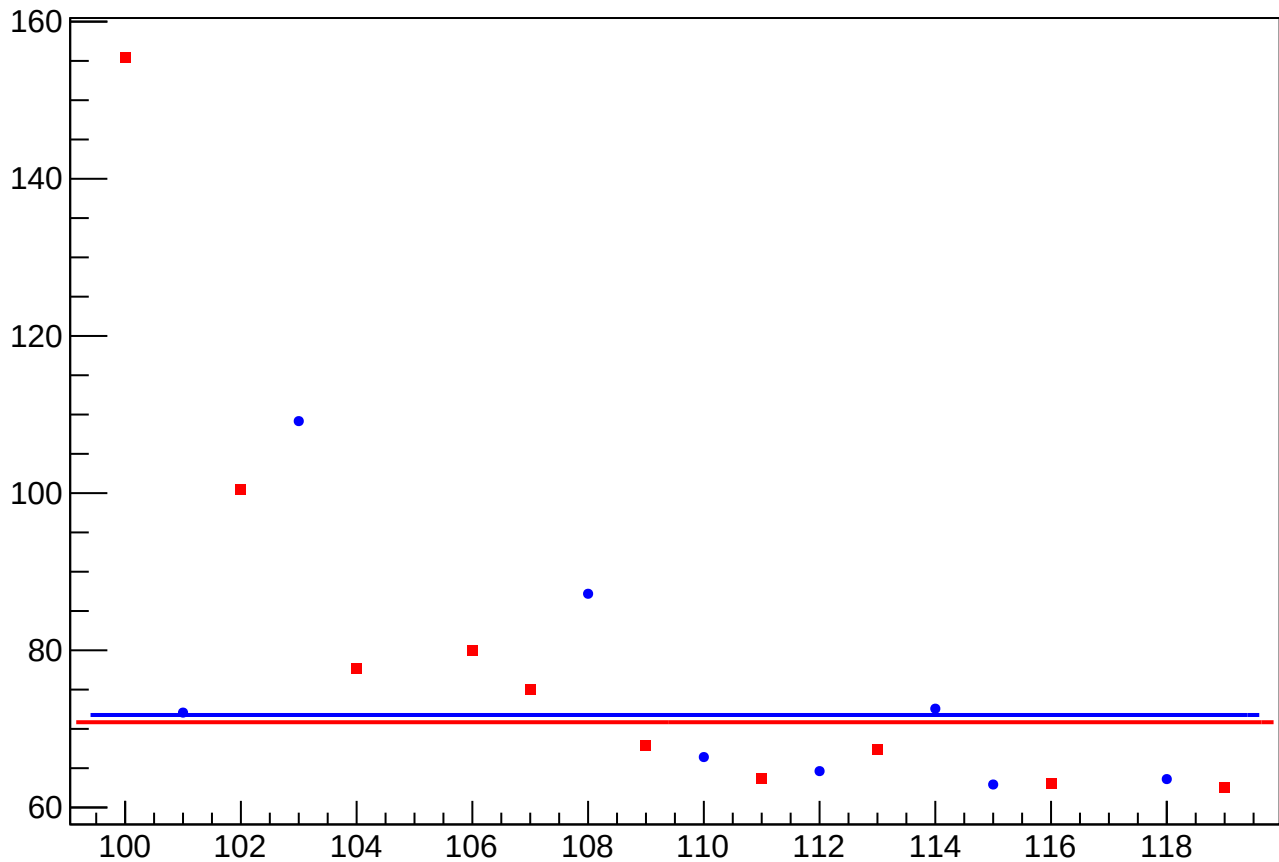
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8.680 $\pm$ 26.770  $\chi^2$ /NDF: 55.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam8\_rms vs Slug



Right In: 71.769 $\pm$ 0.028  $\chi^2$ /NDF: 205644.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 70.849 $\pm$ 0.025  $\chi^2$ /NDF: 213792.1/9

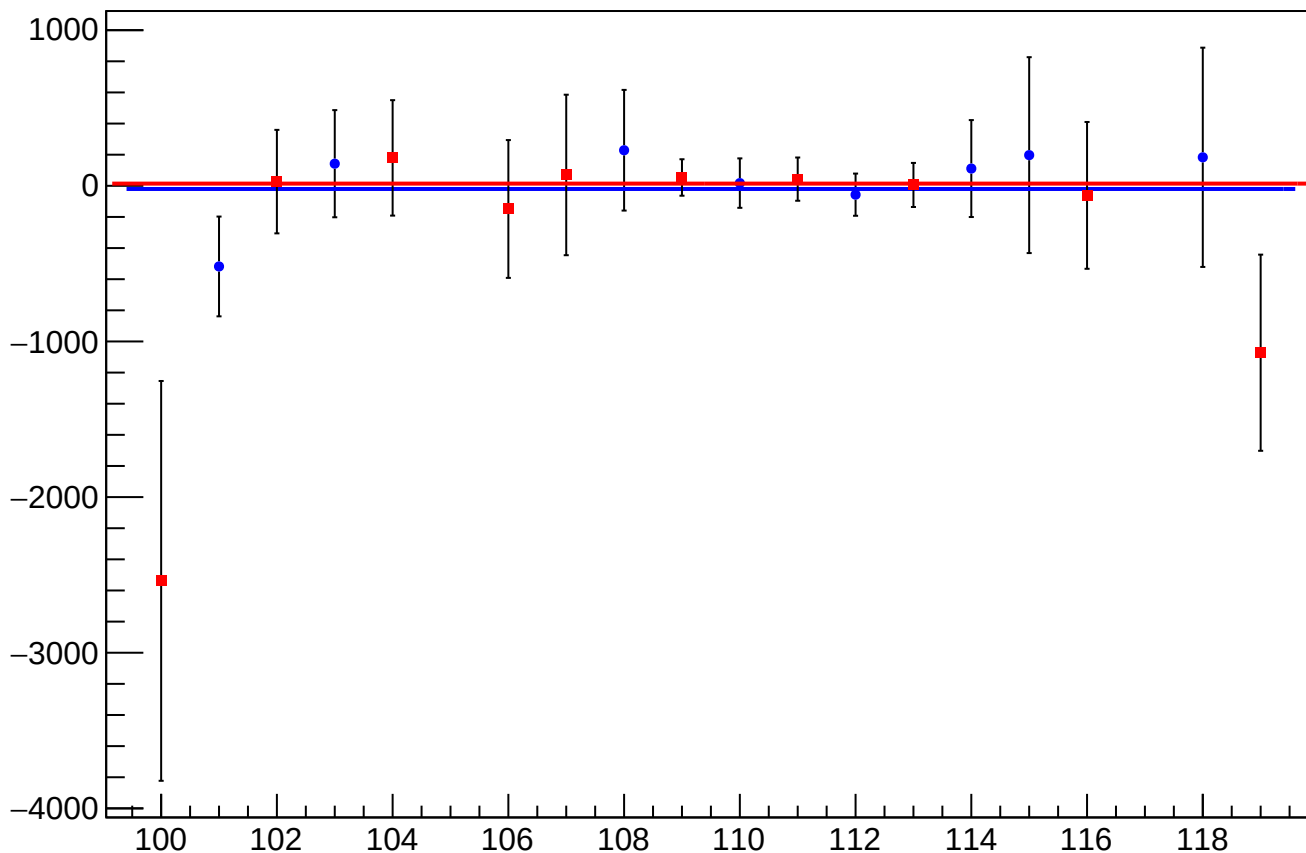
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 71.255 $\pm$ 0.019  $\chi^2$ /NDF: 420019.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_eigen\_dit\_correction\_mean vs Slug



Right In: -20.309 $\pm$ 86.477  $\chi^2$ /NDF: 3.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.187 $\pm$ 69.447  $\chi^2$ /NDF: 7.5/9

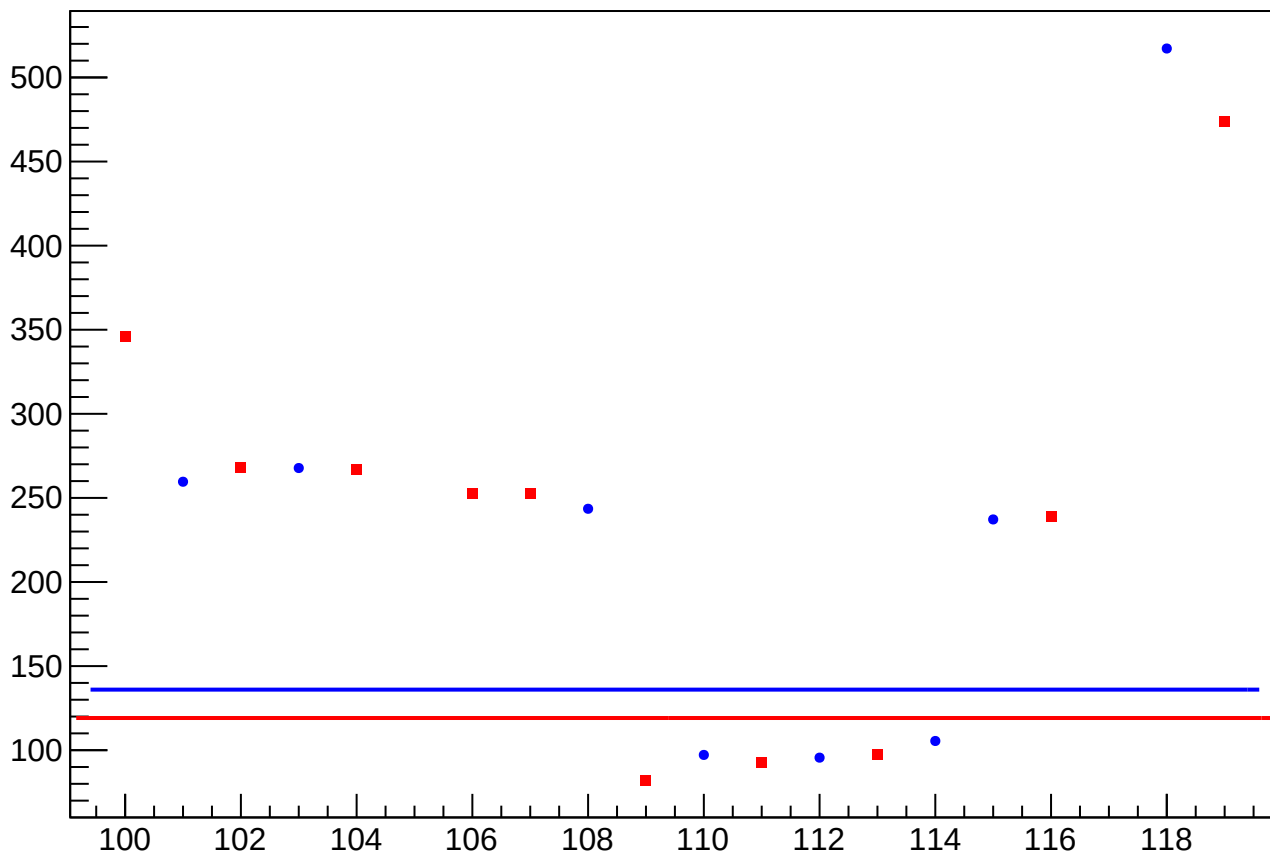
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.663 $\pm$ 54.148  $\chi^2$ /NDF: 11.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_eigen\_dit\_correction\_rms vs Slug



Right In: 136.010 $\pm$ 0.061  $\chi^2$ /NDF: 1698467.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 119.134 $\pm$ 0.049  $\chi^2$ /NDF: 2181667.5/9

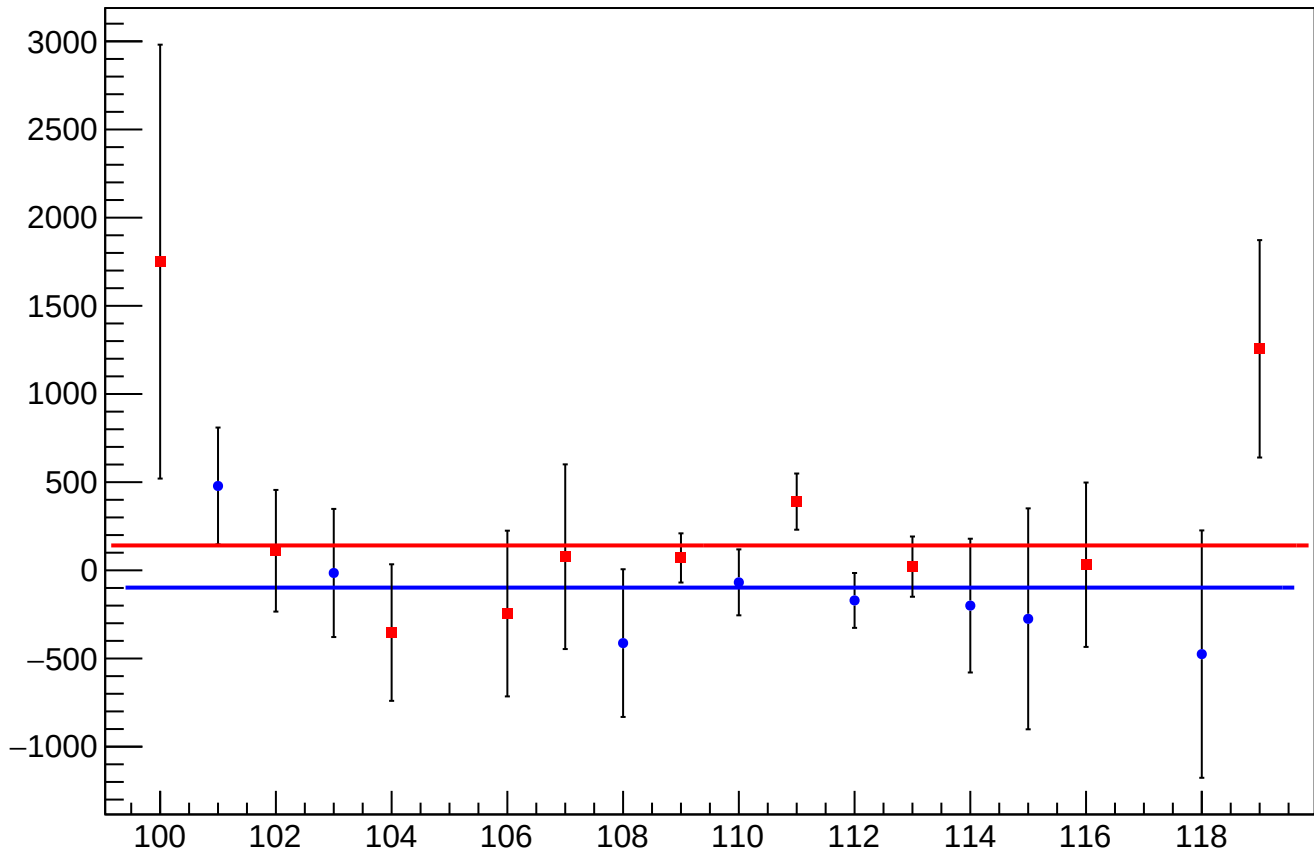
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 125.751 $\pm$ 0.038  $\chi^2$ /NDF: 3926437.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_mean vs Slug



Right In:  $-97.873 \pm 98.136$   $\chi^2/\text{NDF}$ : 4.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $141.174 \pm 80.007$   $\chi^2/\text{NDF}$ : 10.6/9

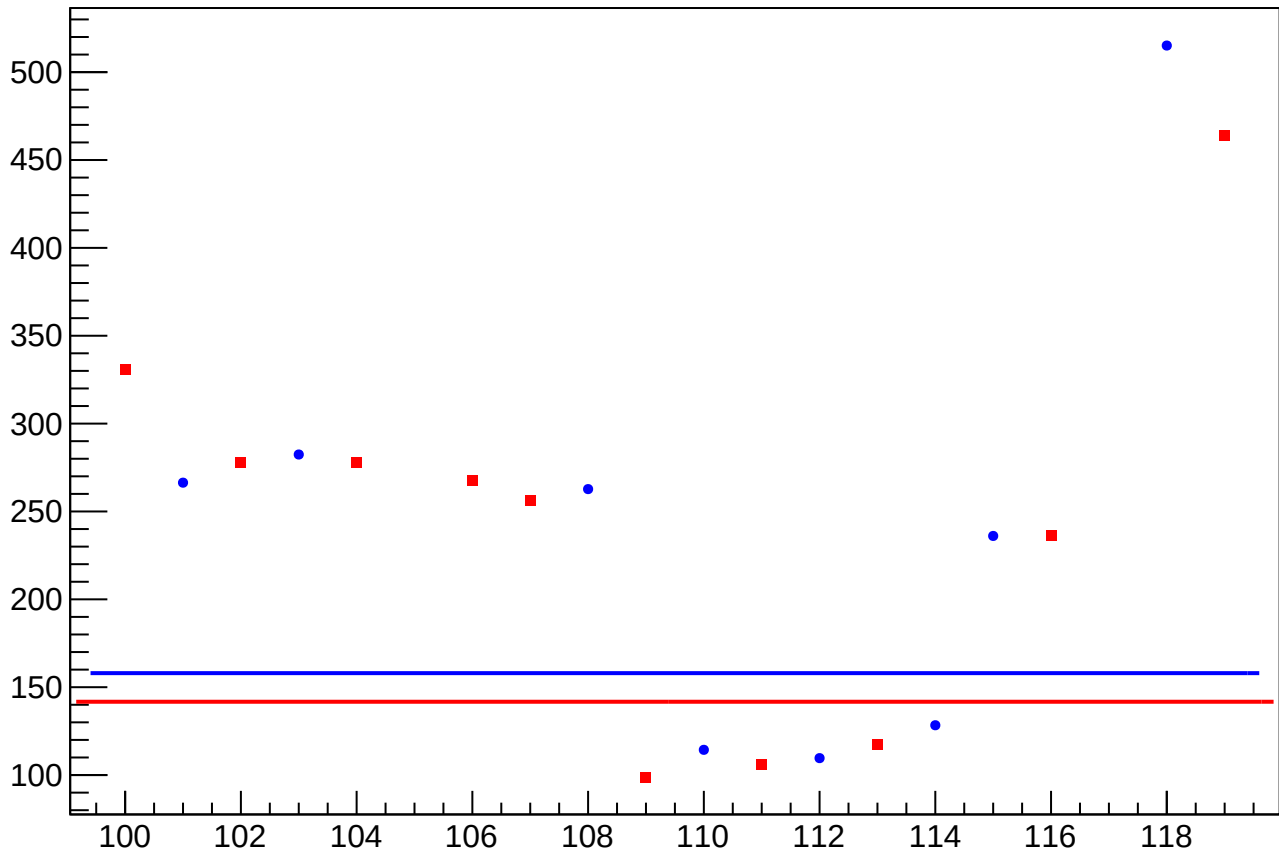
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $45.729 \pm 62.010$   $\chi^2/\text{NDF}$ : 18.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_rms vs Slug



Right In: 157.998+/-0.069  $\chi^2/\text{NDF}$ : 1437656.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 141.722+/-0.057  $\chi^2/\text{NDF}$ : 1806410.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

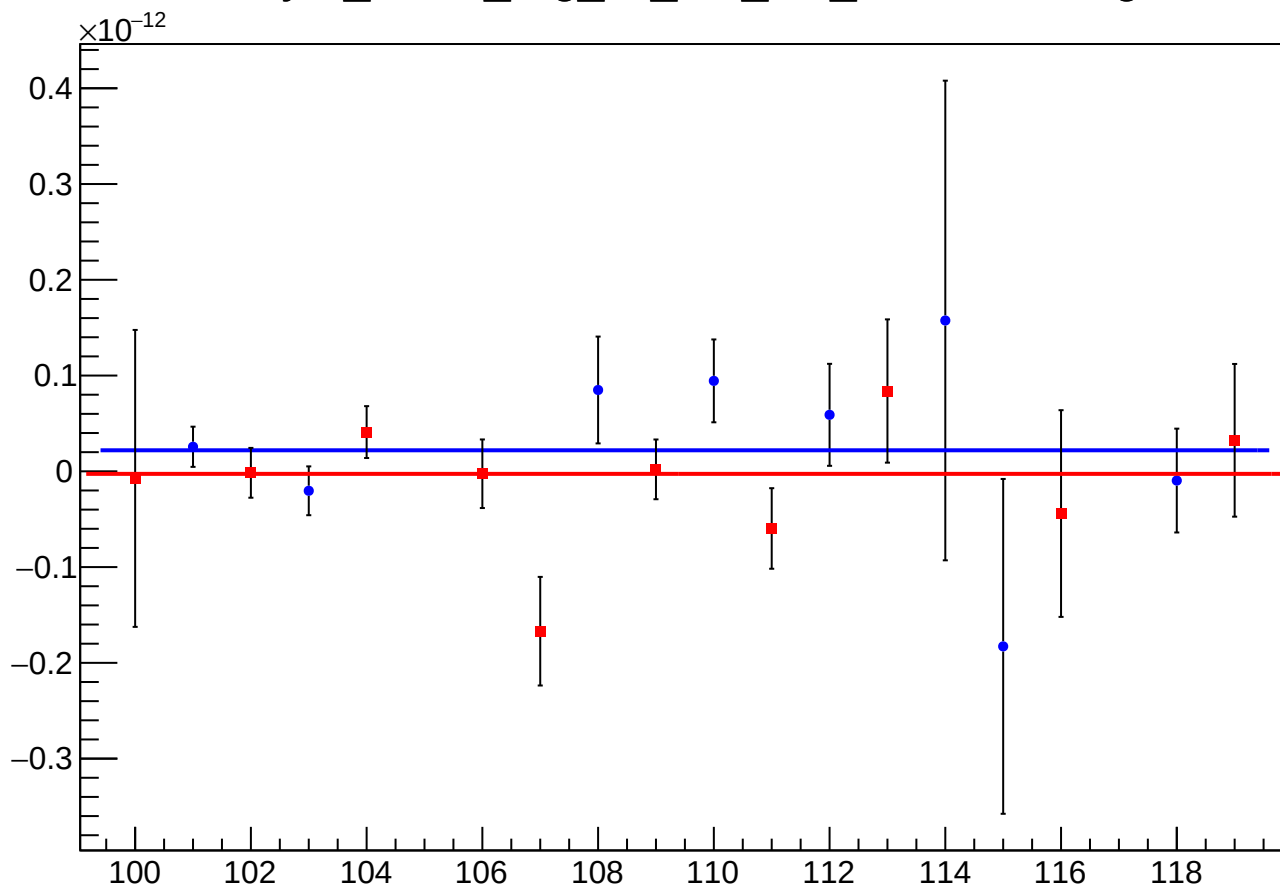
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 148.221+/-0.044  $\chi^2/\text{NDF}$ : 3277118.0/17

- 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 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 9.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 14.5/9

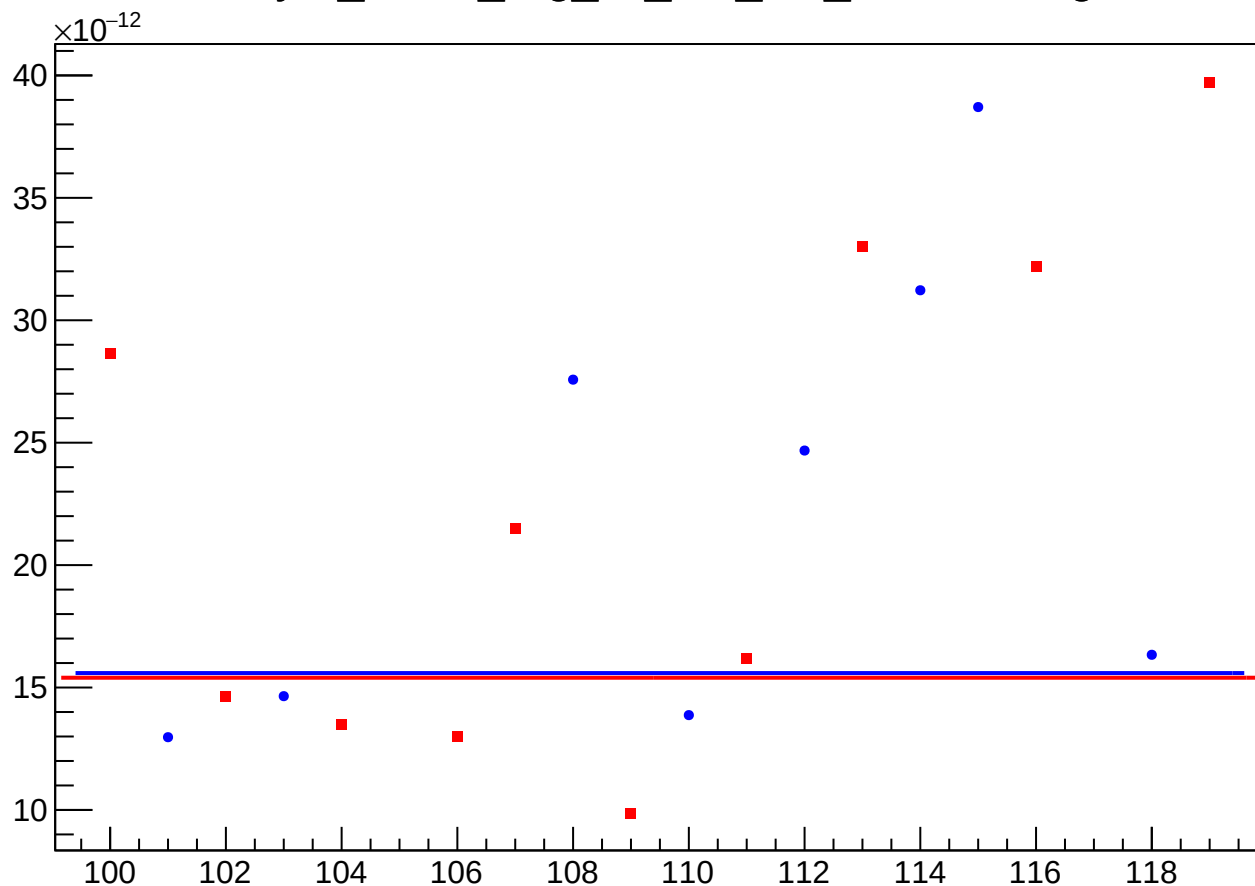
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 25.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 230815.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 467402.7/9

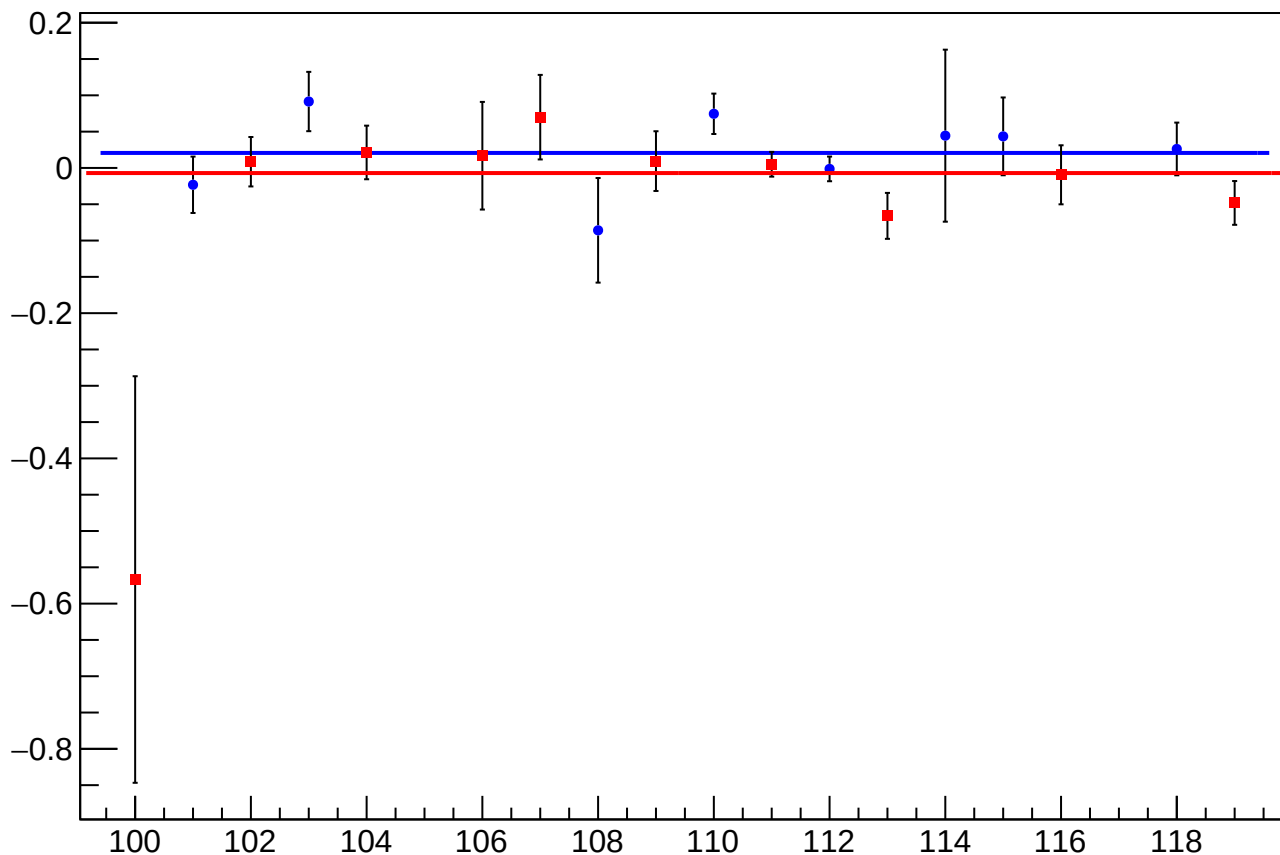
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 698423.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.021 $\pm$ 0.012  $\chi^2$ /NDF: 12.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.007 $\pm$ 0.011  $\chi^2$ /NDF: 12.7/9

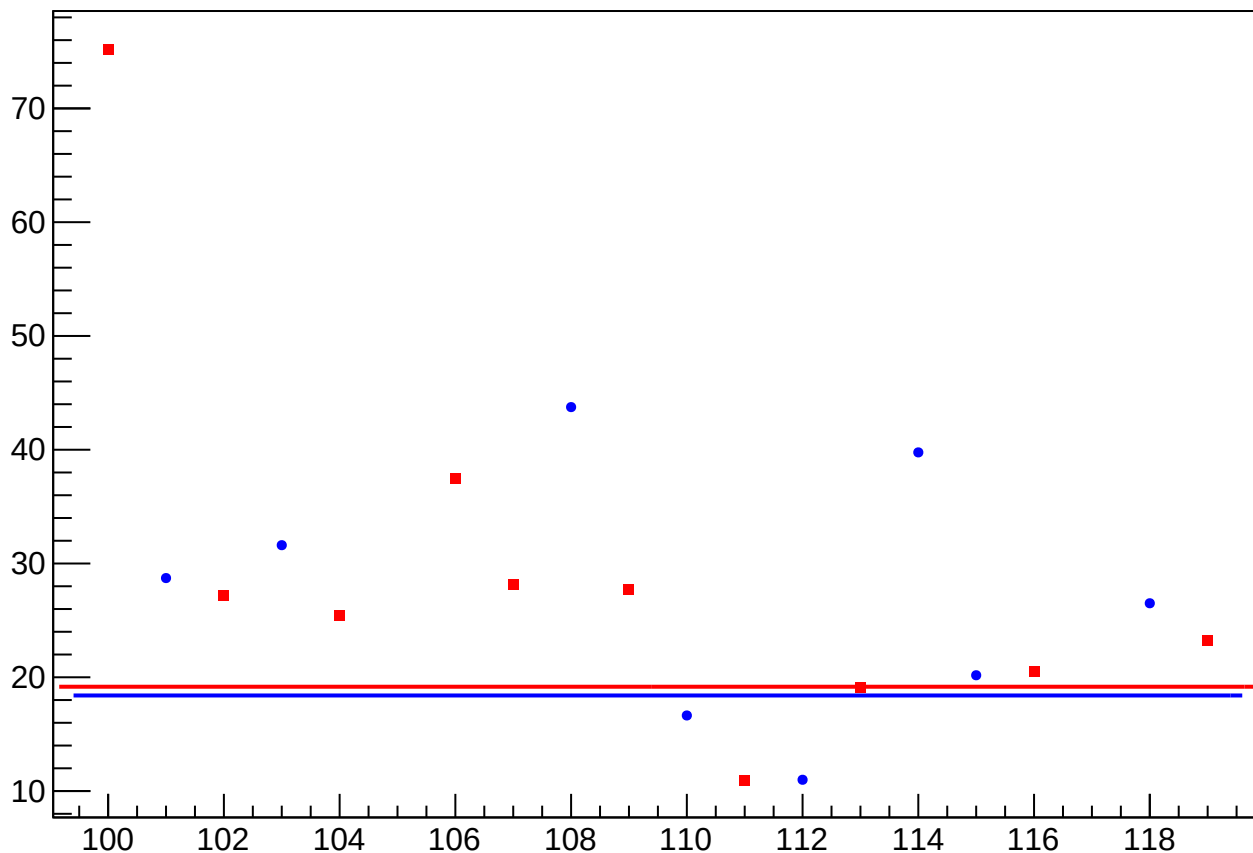
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.008  $\chi^2$ /NDF: 27.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 18.401+/-0.008  $\chi^2/\text{NDF}$ : 1153518.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.170+/-0.008  $\chi^2/\text{NDF}$ : 1011754.3/9

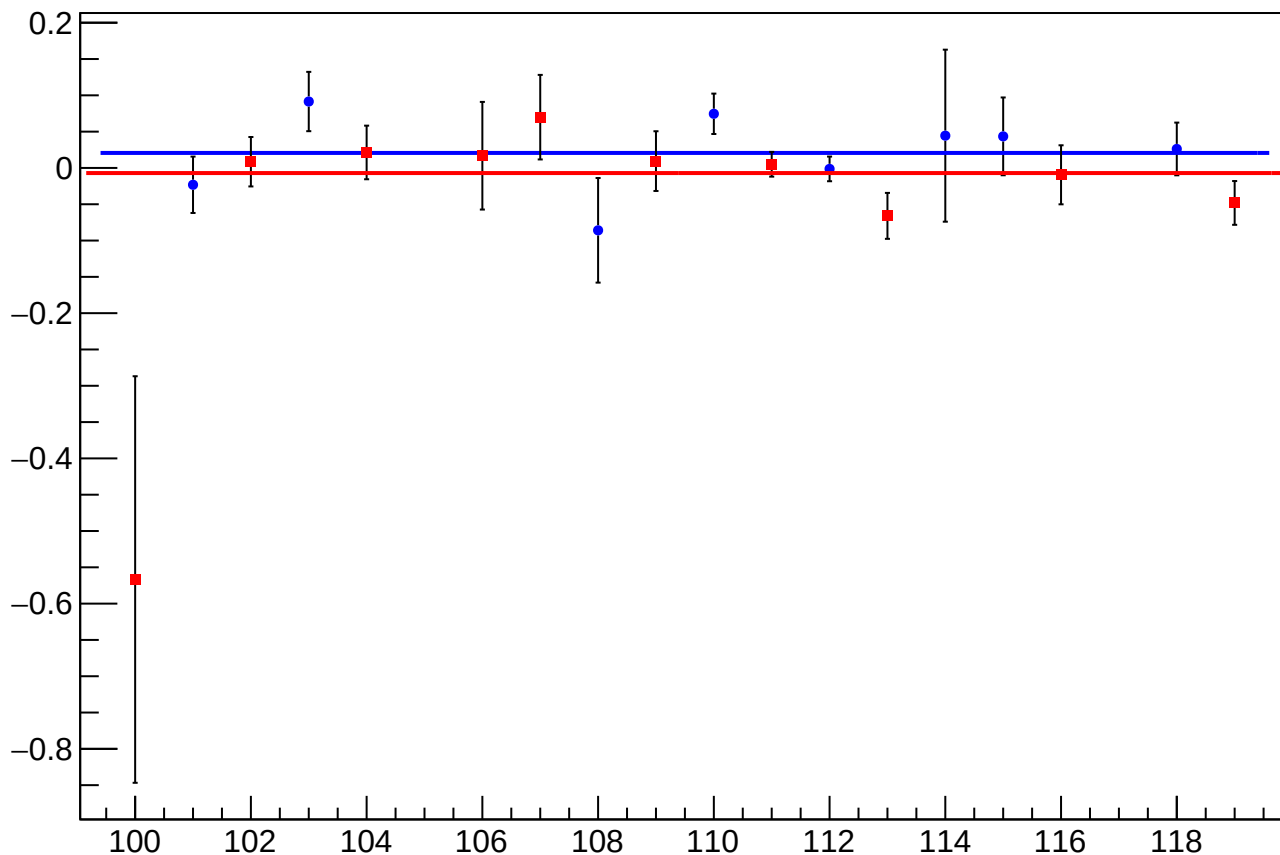
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.819+/-0.006  $\chi^2/\text{NDF}$ : 2170030.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.021 $\pm$ 0.012  $\chi^2$ /NDF: 12.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.007 $\pm$ 0.011  $\chi^2$ /NDF: 12.7/9

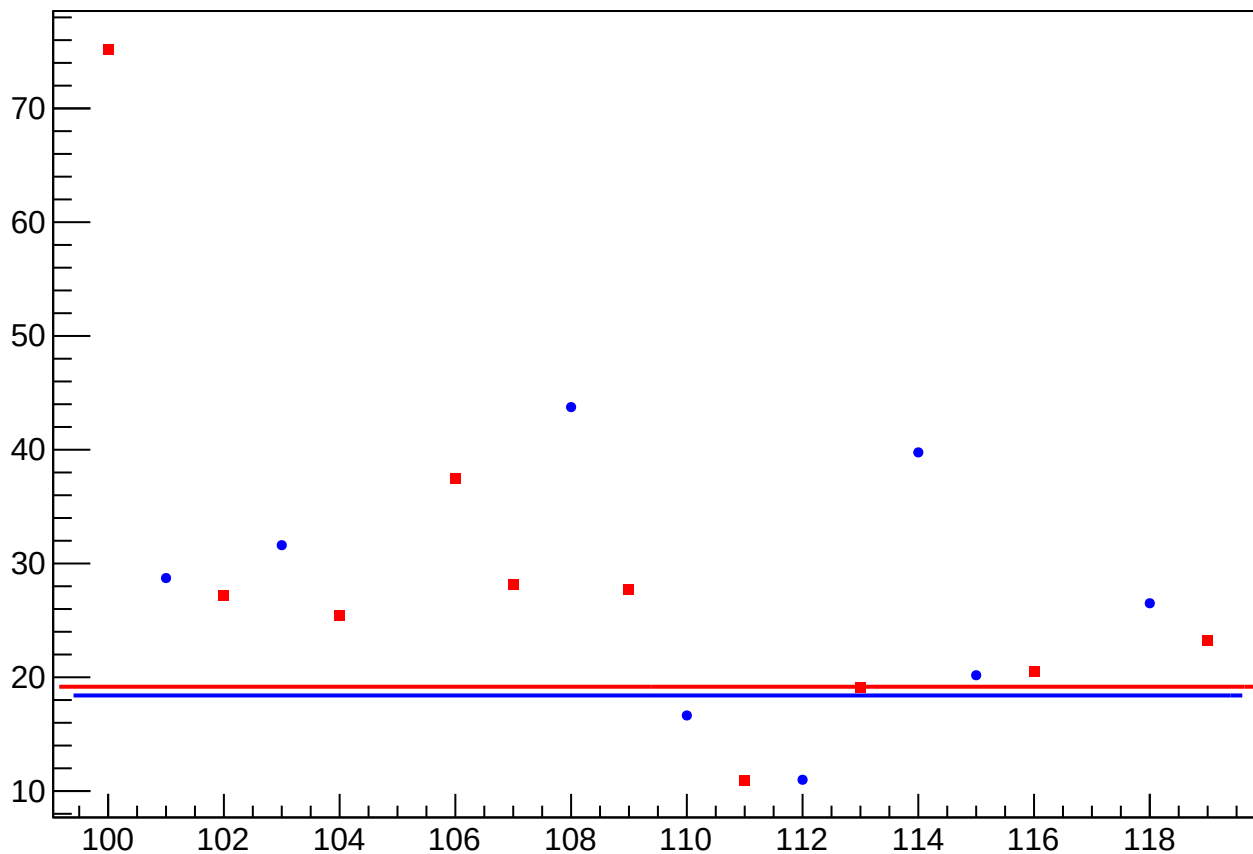
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.008  $\chi^2$ /NDF: 27.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 18.401+/-0.008  $\chi^2/\text{NDF}$ : 1153518.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.170+/-0.008  $\chi^2/\text{NDF}$ : 1011754.3/9

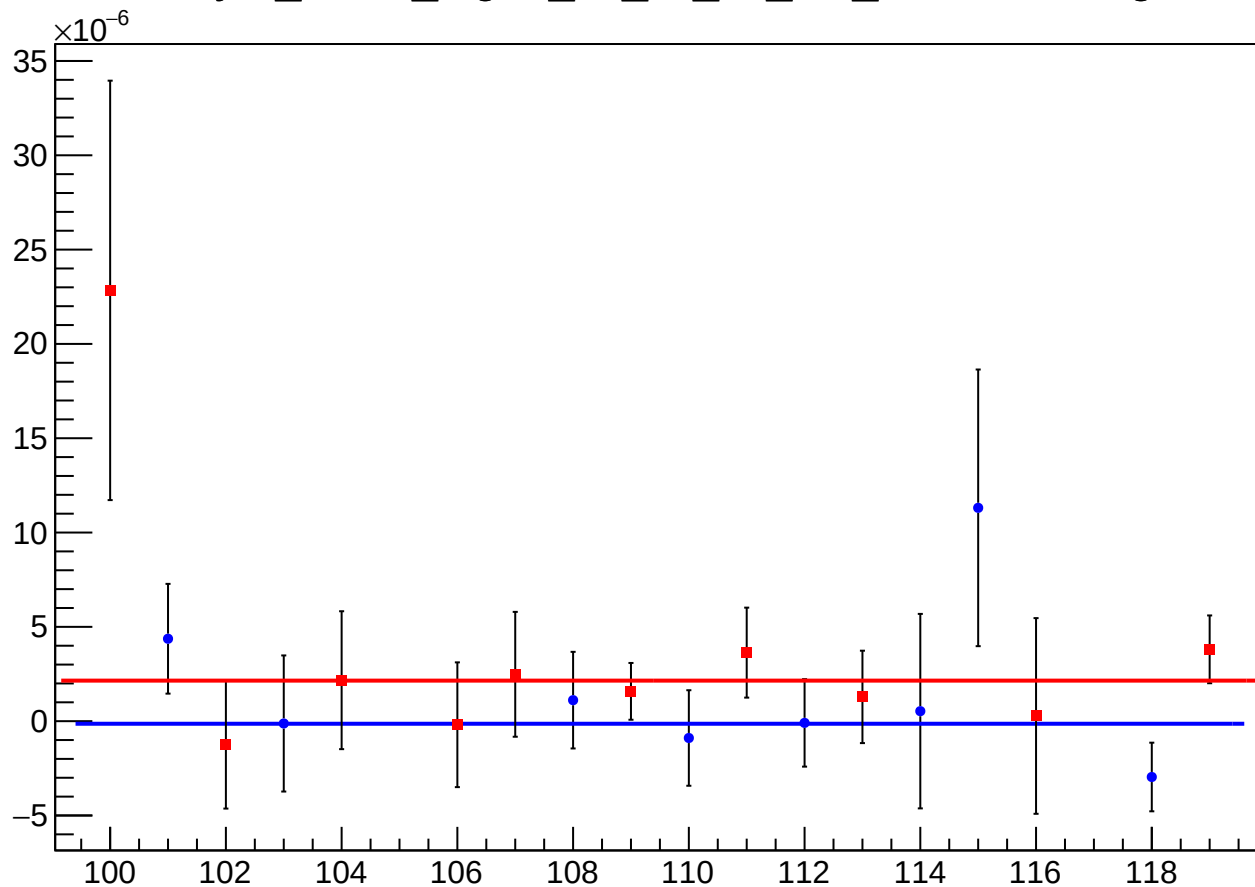
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.819+/-0.006  $\chi^2/\text{NDF}$ : 2170030.1/17

- 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: 7.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.6/9

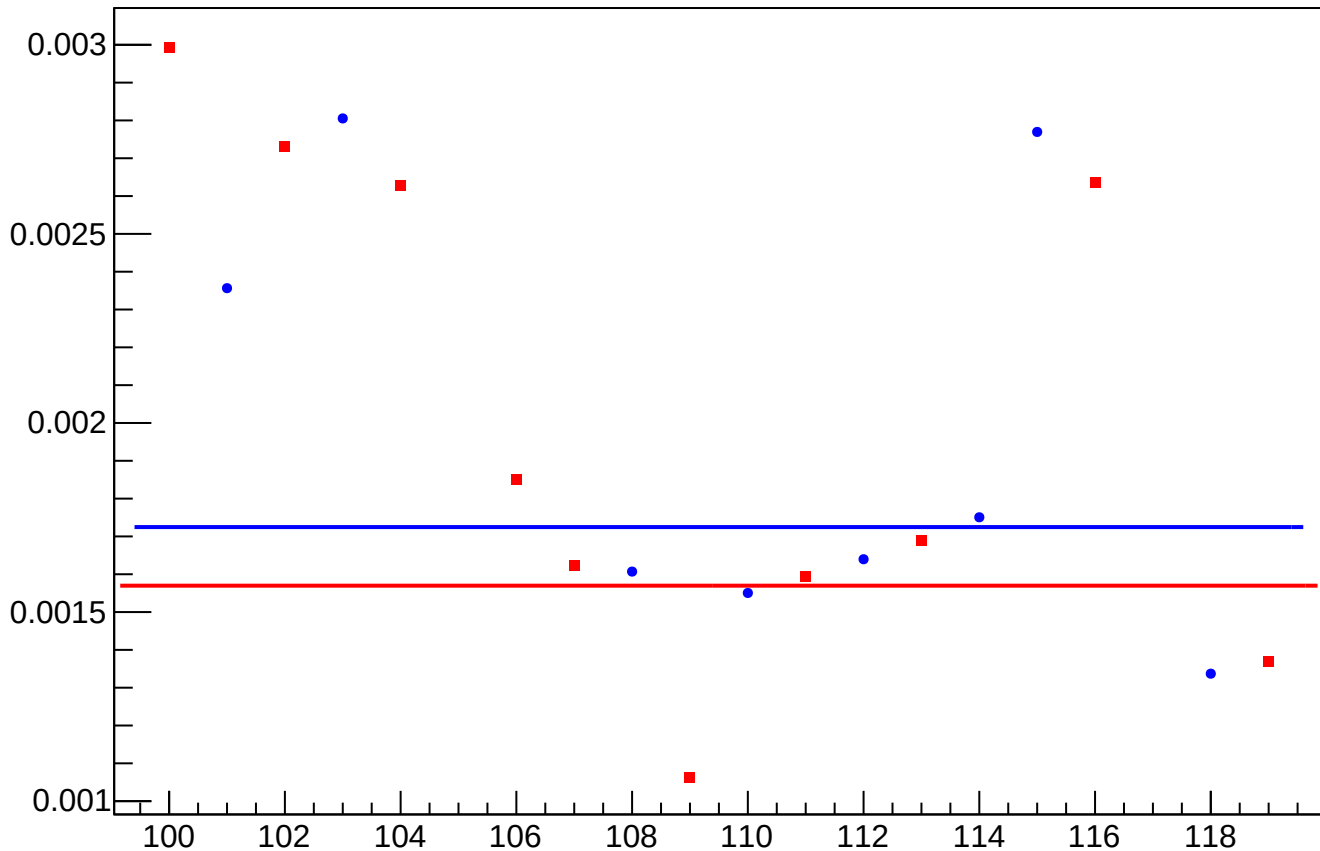
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.4/17

- 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  $\chi^2/\text{NDF}$ : 421583.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 790977.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

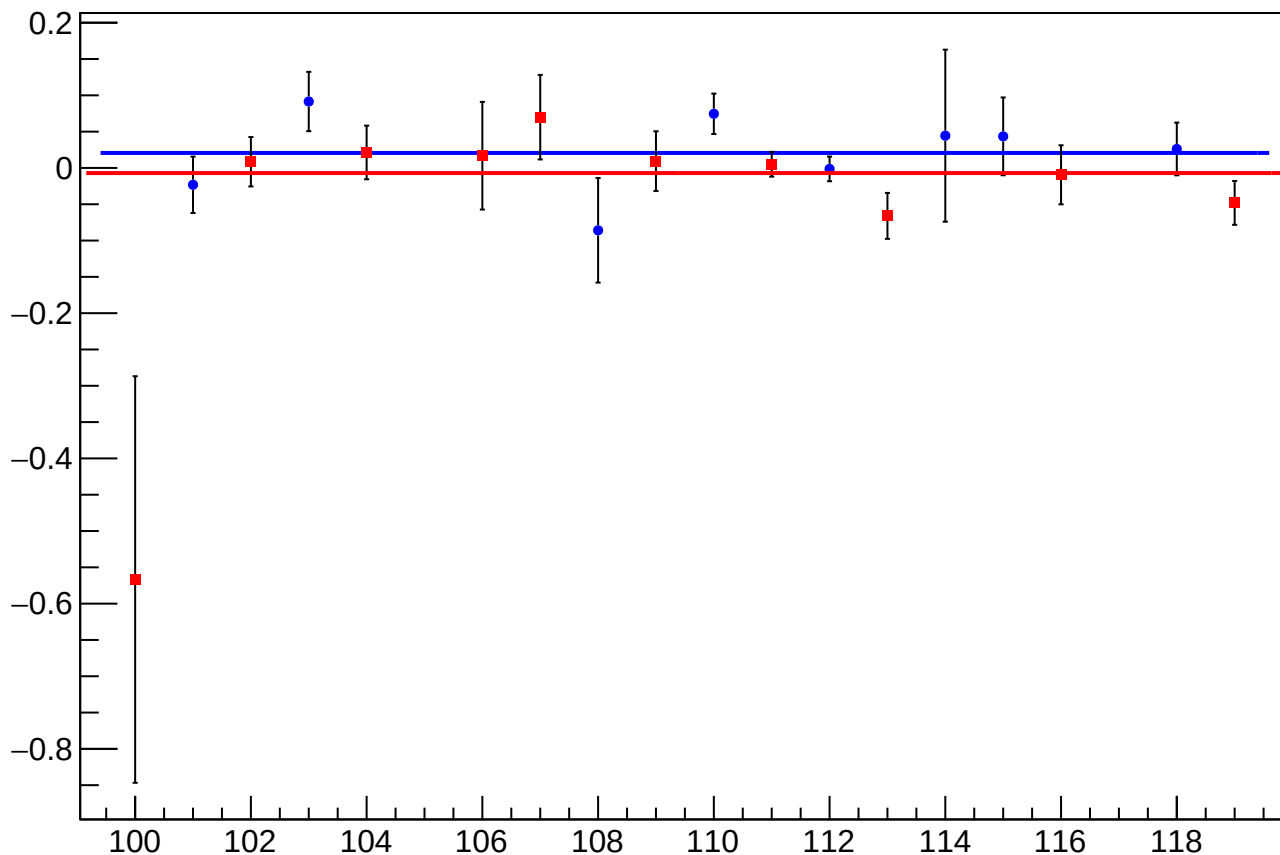
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1242041.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam8\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.021 $\pm$ 0.012  $\chi^2$ /NDF: 12.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.007 $\pm$ 0.011  $\chi^2$ /NDF: 12.7/9

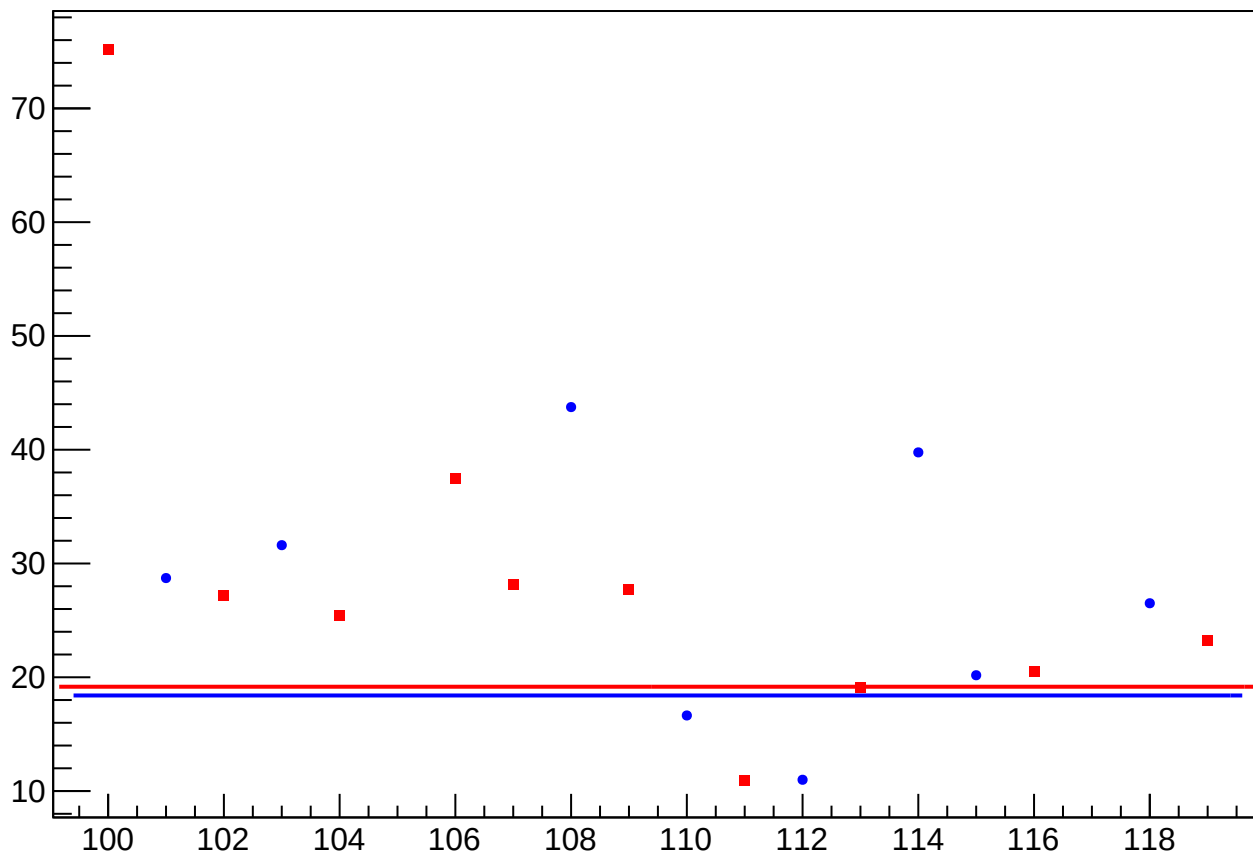
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.008  $\chi^2$ /NDF: 27.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 18.400+/-0.008  $\chi^2/\text{NDF}$ : 1153634.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.169+/-0.008  $\chi^2/\text{NDF}$ : 1011881.5/9

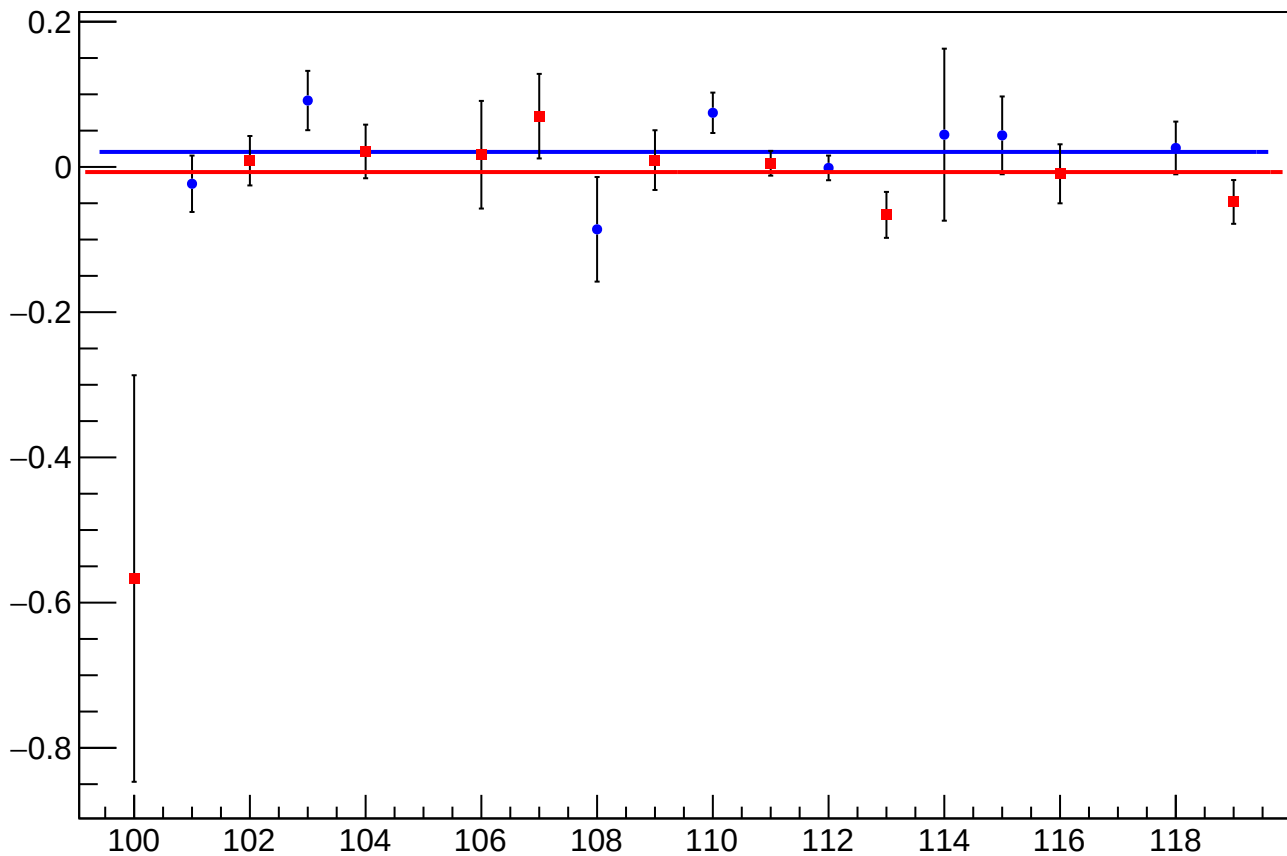
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.818+/-0.006  $\chi^2/\text{NDF}$ : 2170275.1/17

- 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: 0.021 $\pm$ 0.012  $\chi^2$ /NDF: 12.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.007 $\pm$ 0.011  $\chi^2$ /NDF: 12.7/9

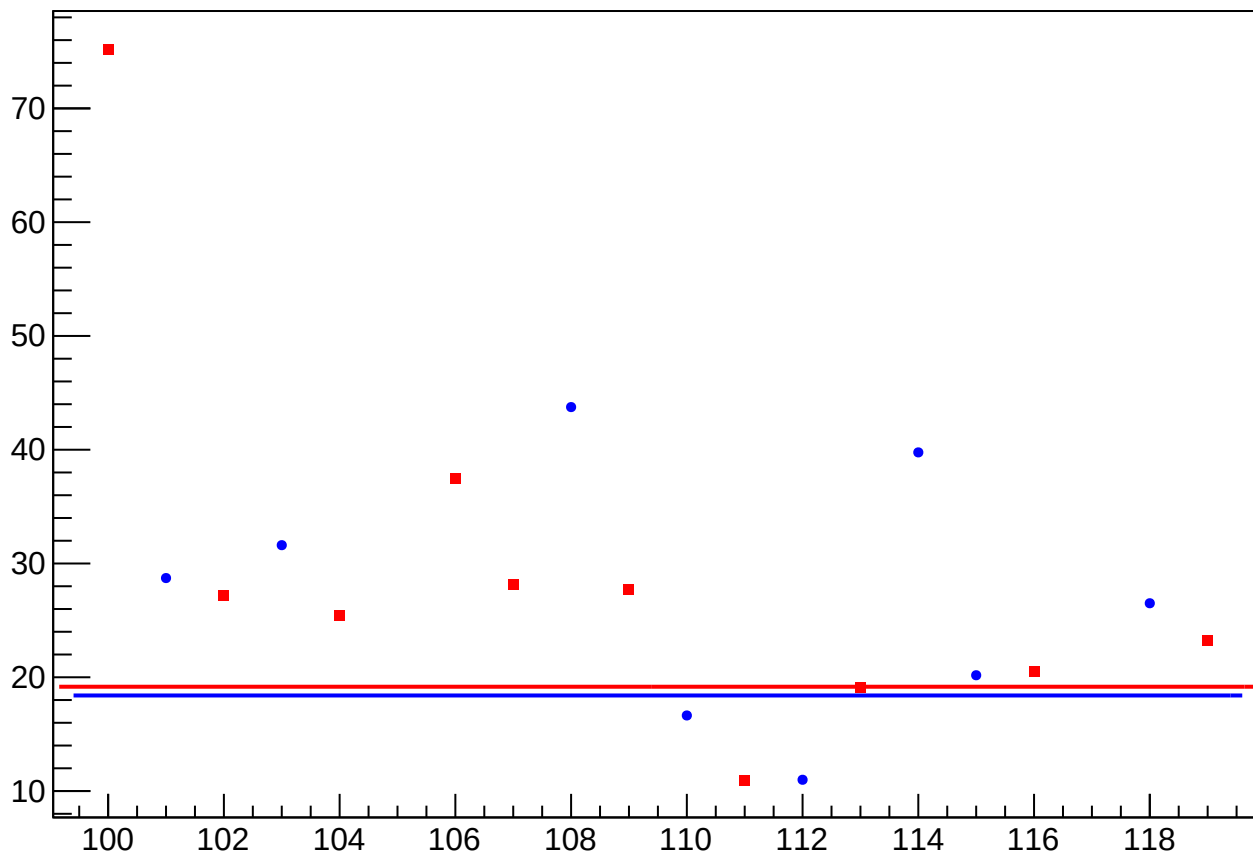
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.008  $\chi^2$ /NDF: 27.9/17

- 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: 18.400+/-0.008  $\chi^2/\text{NDF}$ : 1153634.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.169+/-0.008  $\chi^2/\text{NDF}$ : 1011881.5/9

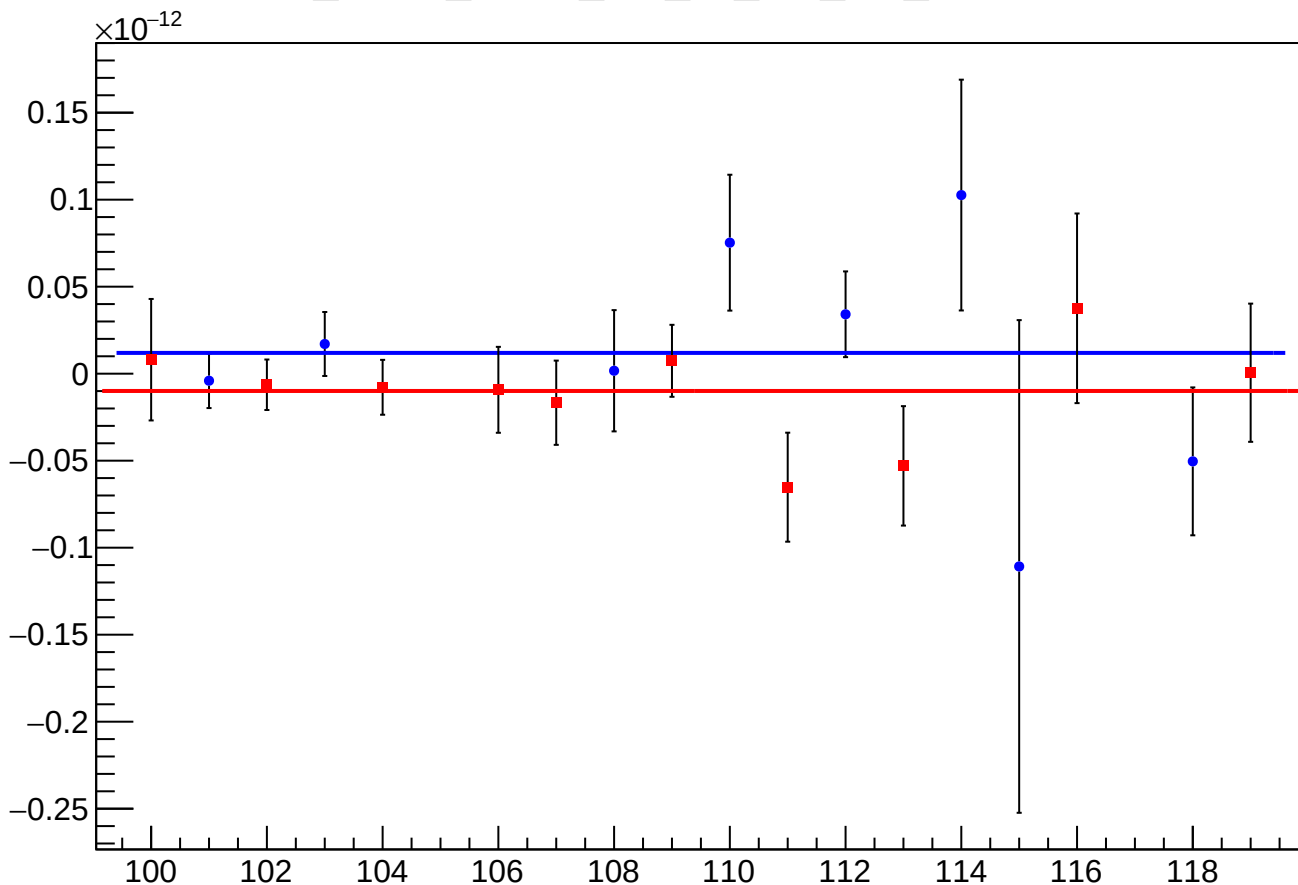
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.818+/-0.006  $\chi^2/\text{NDF}$ : 2170275.1/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 9.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.6/9

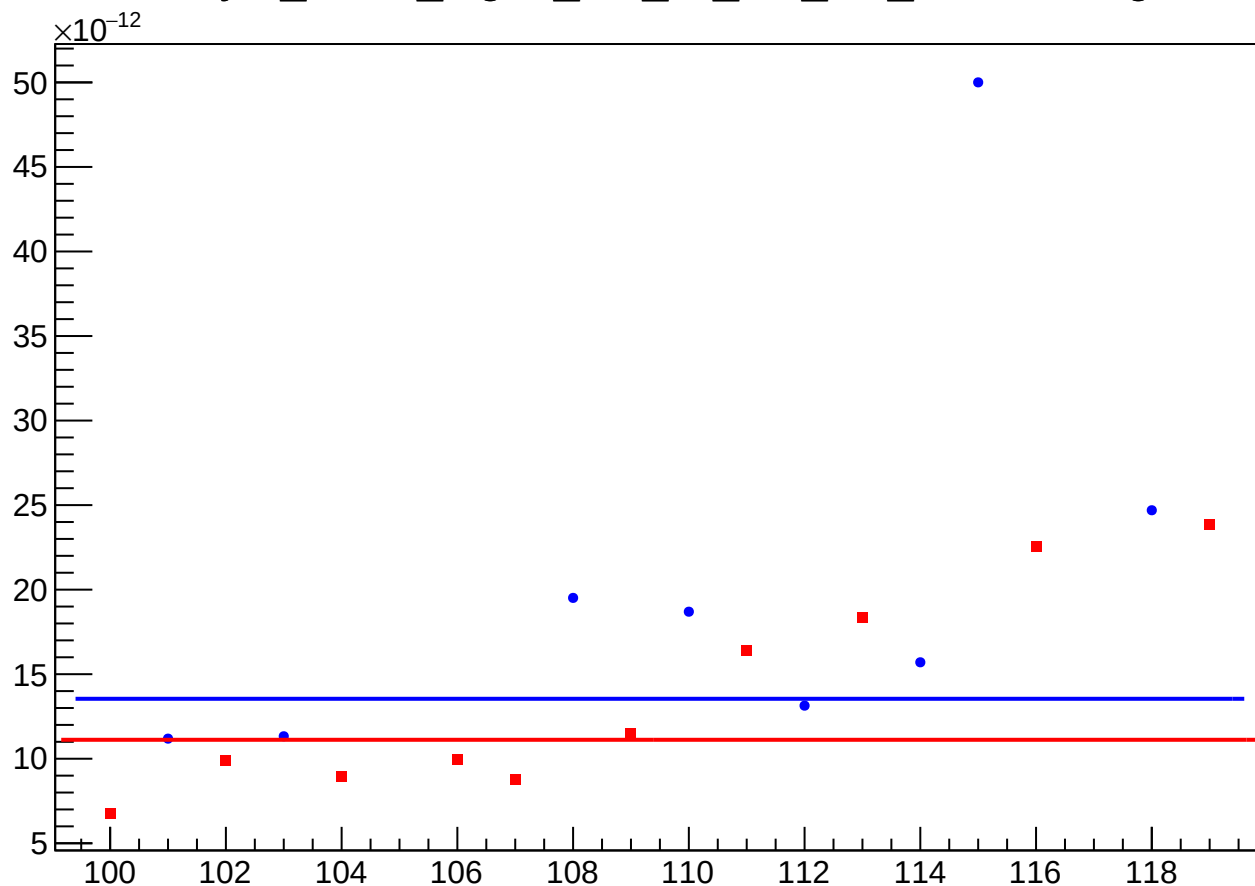
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 440557.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 547330.2/9

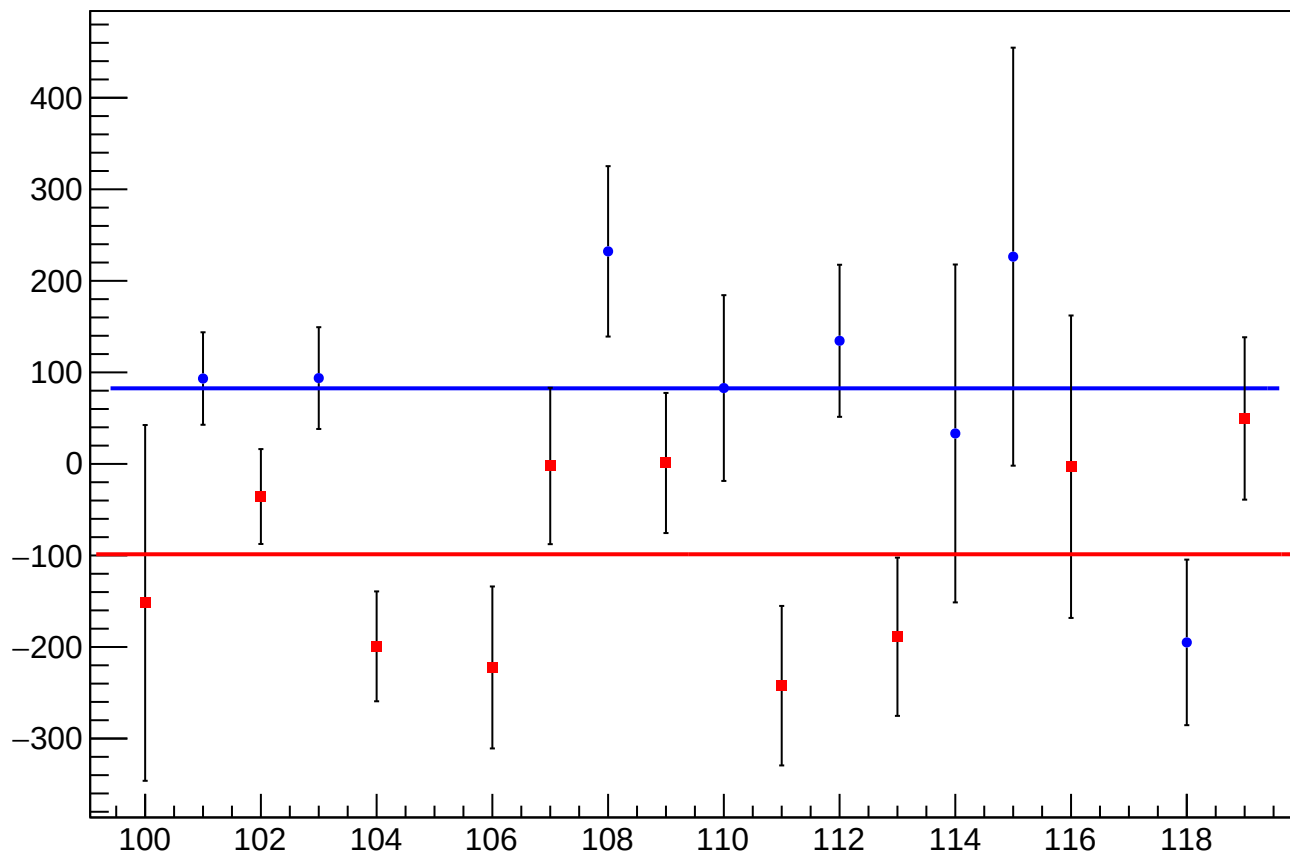
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1068250.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 82.589+/-28.356  $\chi^2/\text{NDF}$ : 12.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -98.701+/-25.474  $\chi^2/\text{NDF}$ : 16.2/9

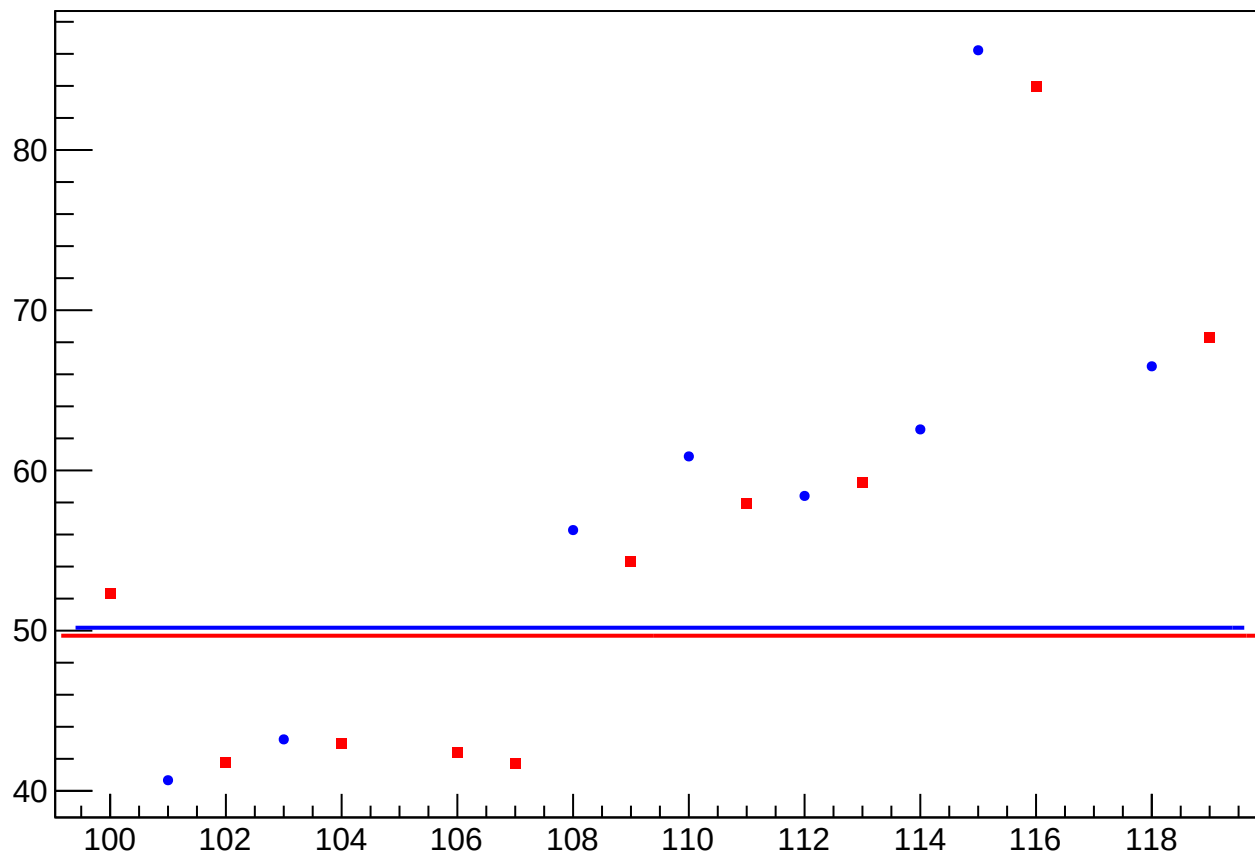
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -17.737+/-18.950  $\chi^2/\text{NDF}$ : 51.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 50.183+/-0.020  $\chi^2/\text{NDF}$ : 276772.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 49.684+/-0.018  $\chi^2/\text{NDF}$ : 327062.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

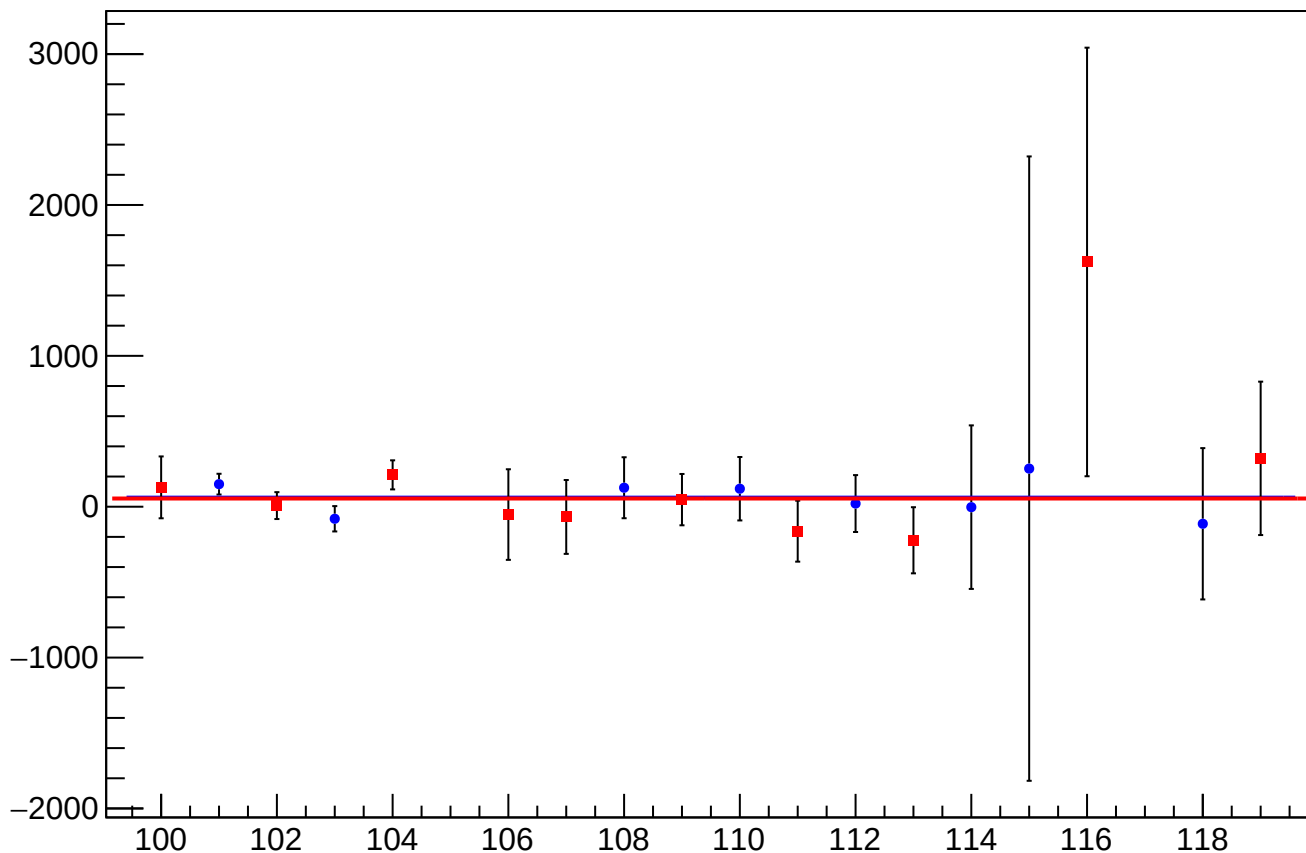
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.907+/-0.013  $\chi^2/\text{NDF}$ : 604176.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_avg\_reg\_correction\_mean vs Slug



Right In: 60.130+/-47.894  $\chi^2/\text{NDF}$ : 4.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 54.357+/-52.024  $\chi^2/\text{NDF}$ : 7.7/9

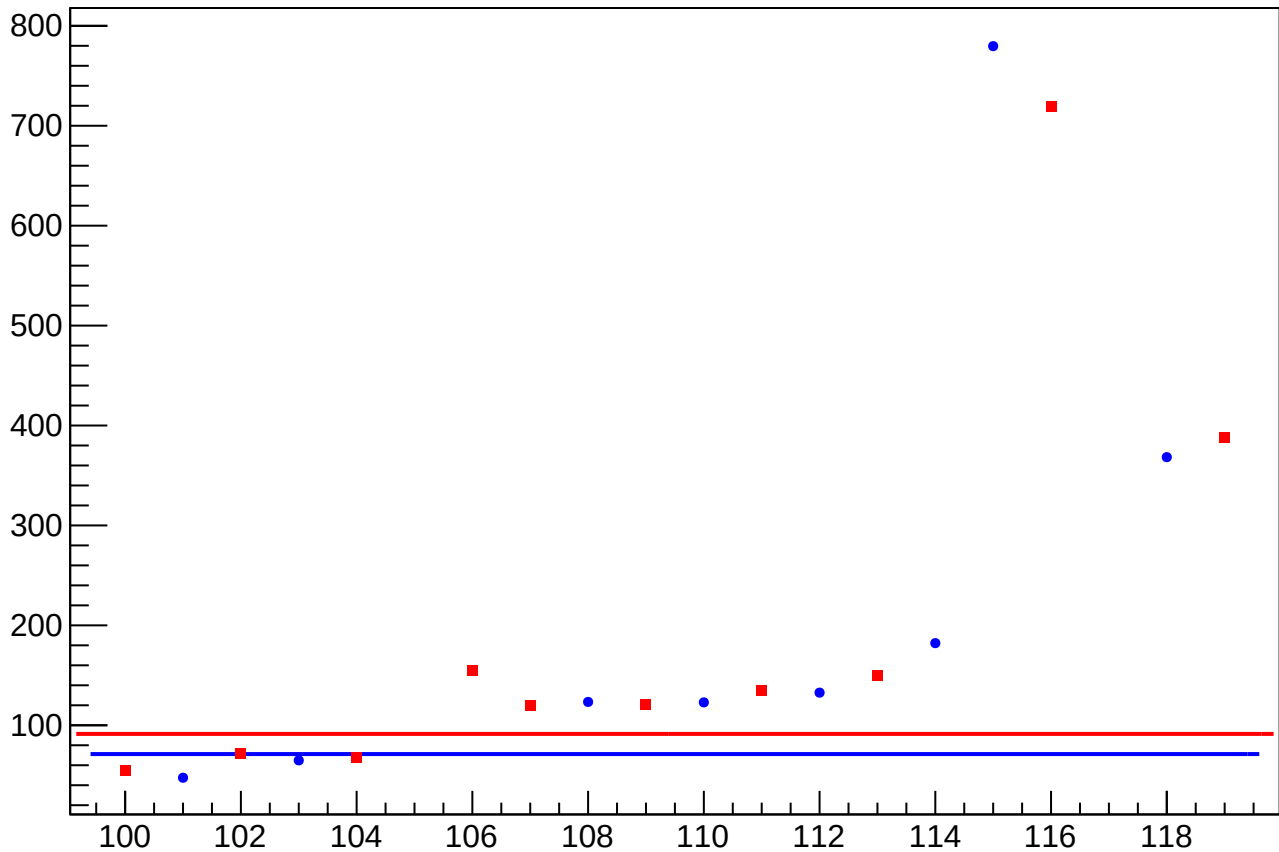
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 57.482+/-35.236  $\chi^2/\text{NDF}$ : 12.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_reg\_correction\_rms vs Slug



Right In: 71.186+/-0.034  $\chi^2/\text{NDF}$ : 1736048.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 91.350+/-0.037  $\chi^2/\text{NDF}$ : 1773327.6/9

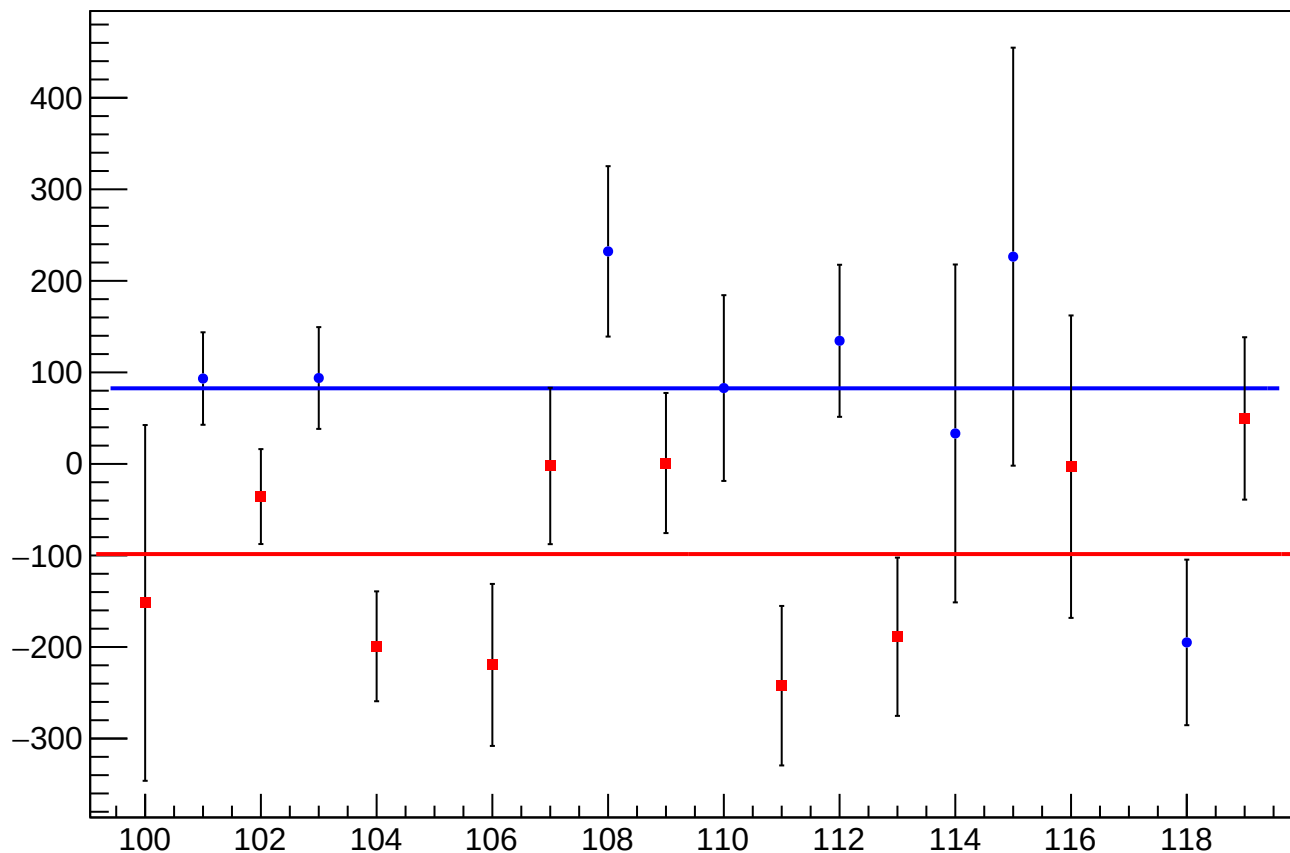
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 80.436+/-0.025  $\chi^2/\text{NDF}$ : 3671991.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 82.612 $\pm$ 28.356  $\chi^2$ /NDF: 13.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -98.477 $\pm$ 25.476  $\chi^2$ /NDF: 16.1/9

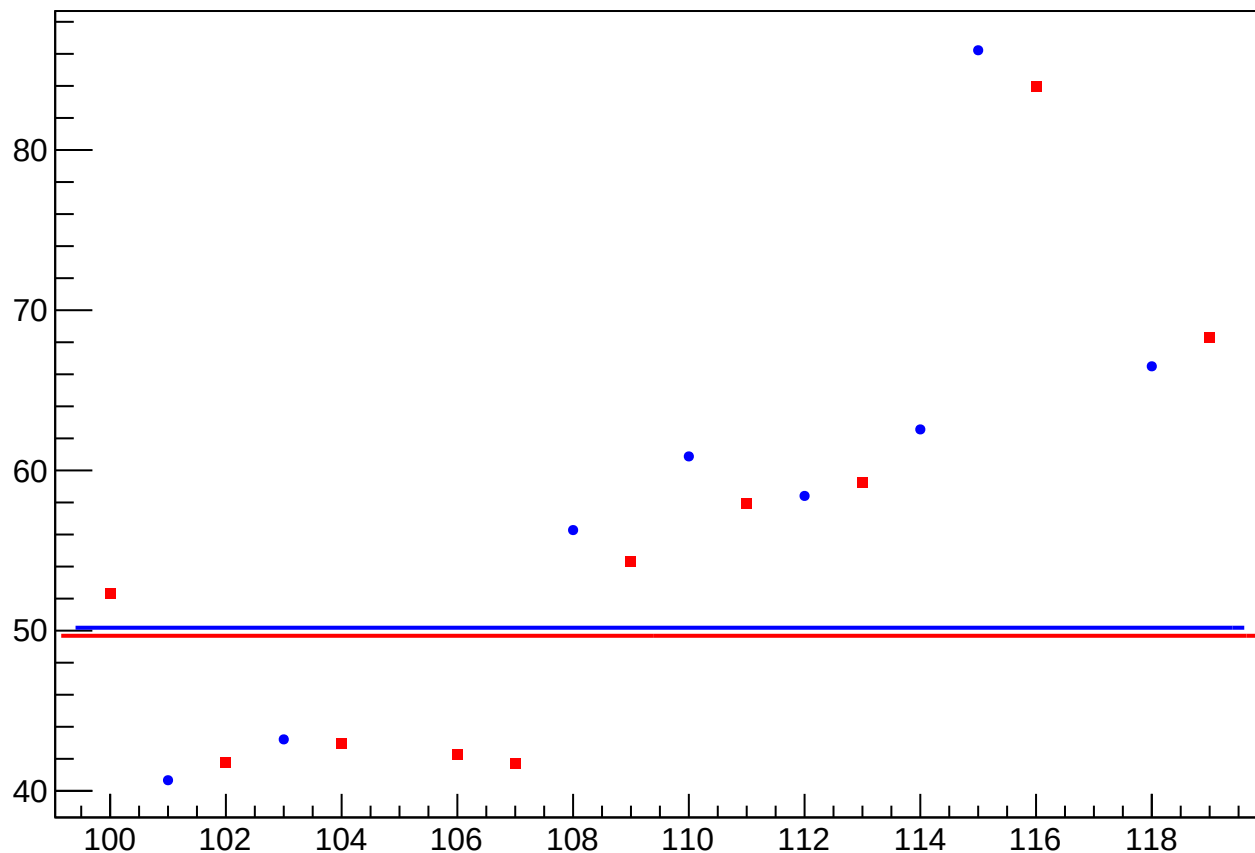
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.592 $\pm$ 18.951  $\chi^2$ /NDF: 51.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 50.183+/-0.020  $\chi^2/\text{NDF}$ : 276771.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 49.680+/-0.018  $\chi^2/\text{NDF}$ : 327289.5/9

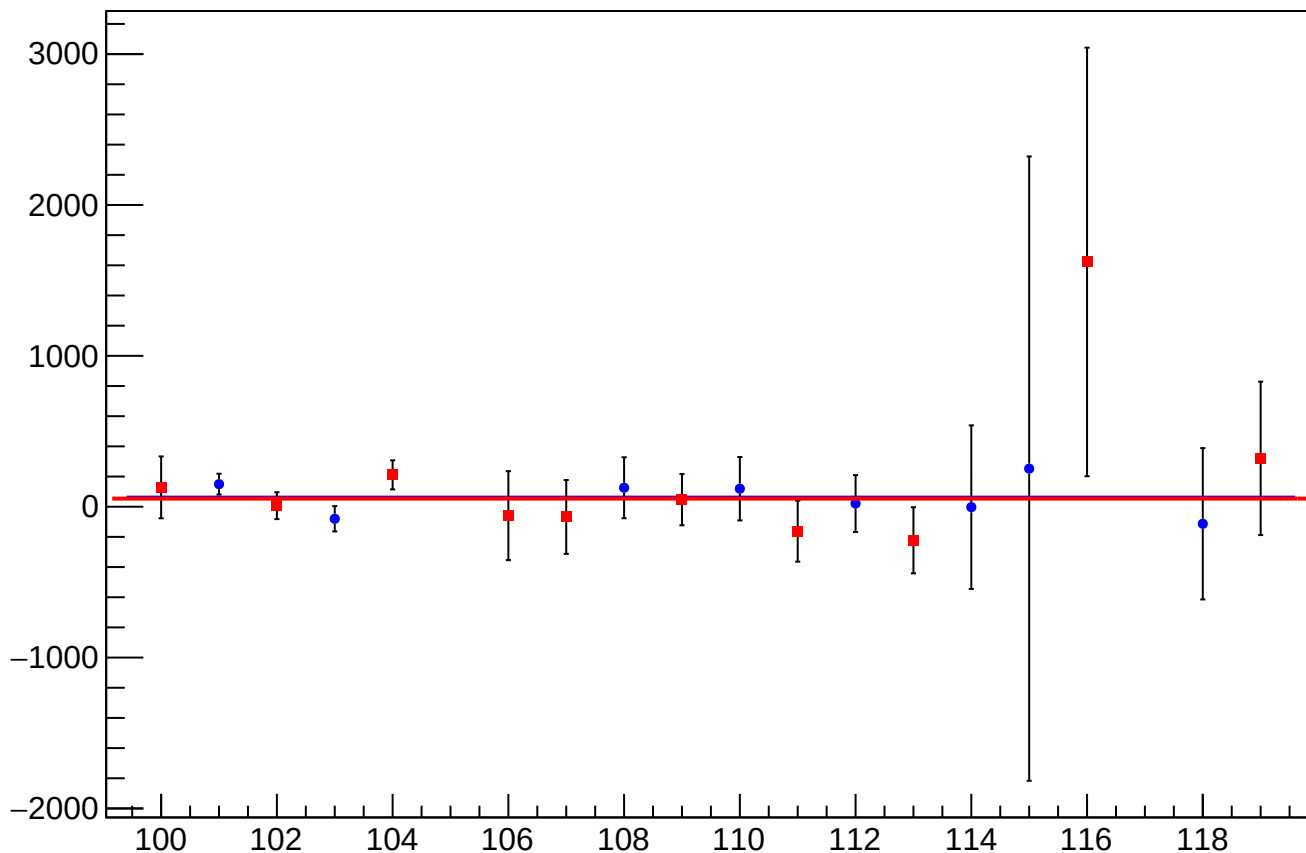
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.904+/-0.013  $\chi^2/\text{NDF}$ : 604409.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_cor\_correction\_mean vs Slug



Right In: 60.134+/-47.892  $\chi^2/\text{NDF}$ : 4.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.834+/-51.977  $\chi^2/\text{NDF}$ : 7.7/9

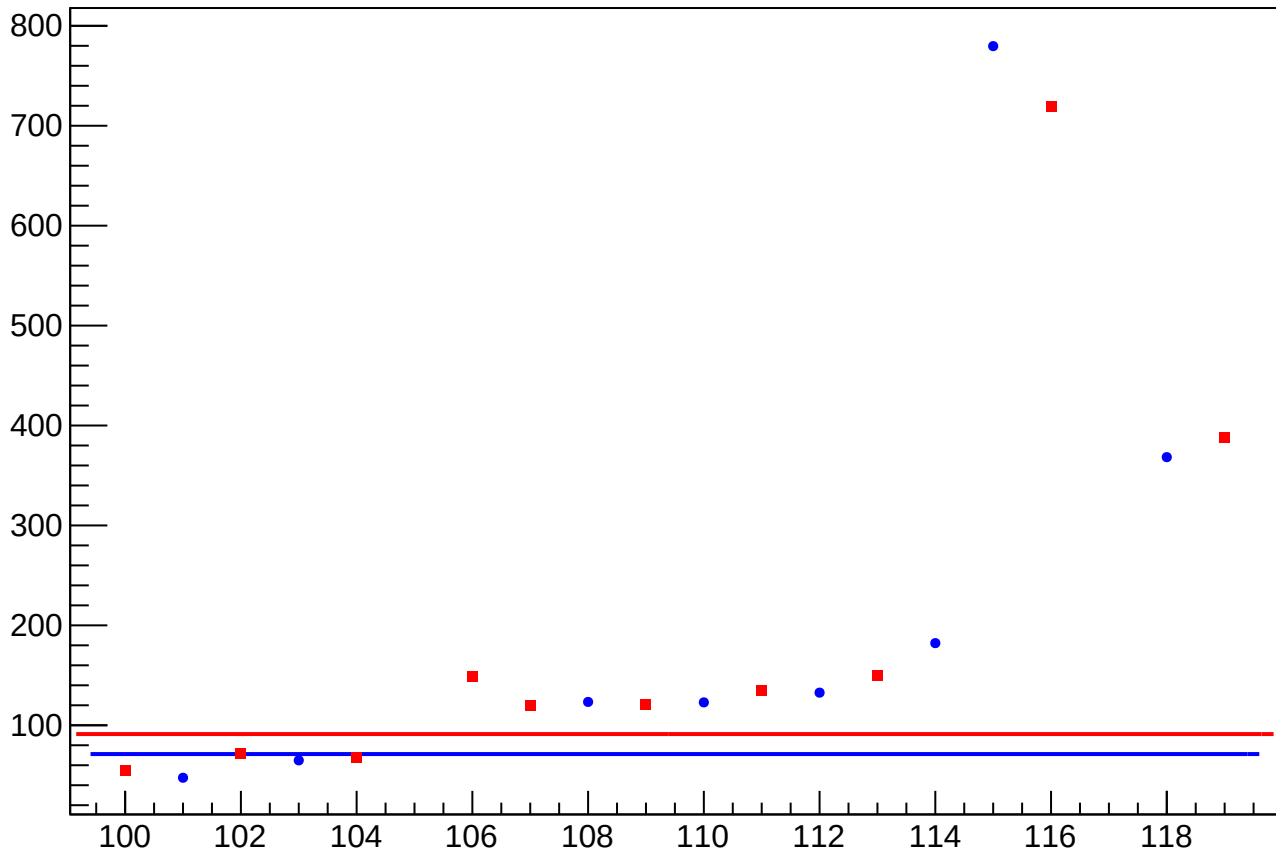
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 57.241+/-35.221  $\chi^2/\text{NDF}$ : 12.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_cor\_correction\_rms vs Slug



Right In: 71.184+/-0.034  $\chi^2/\text{NDF}$ : 1736060.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 91.190+/-0.037  $\chi^2/\text{NDF}$ : 1760927.4/9

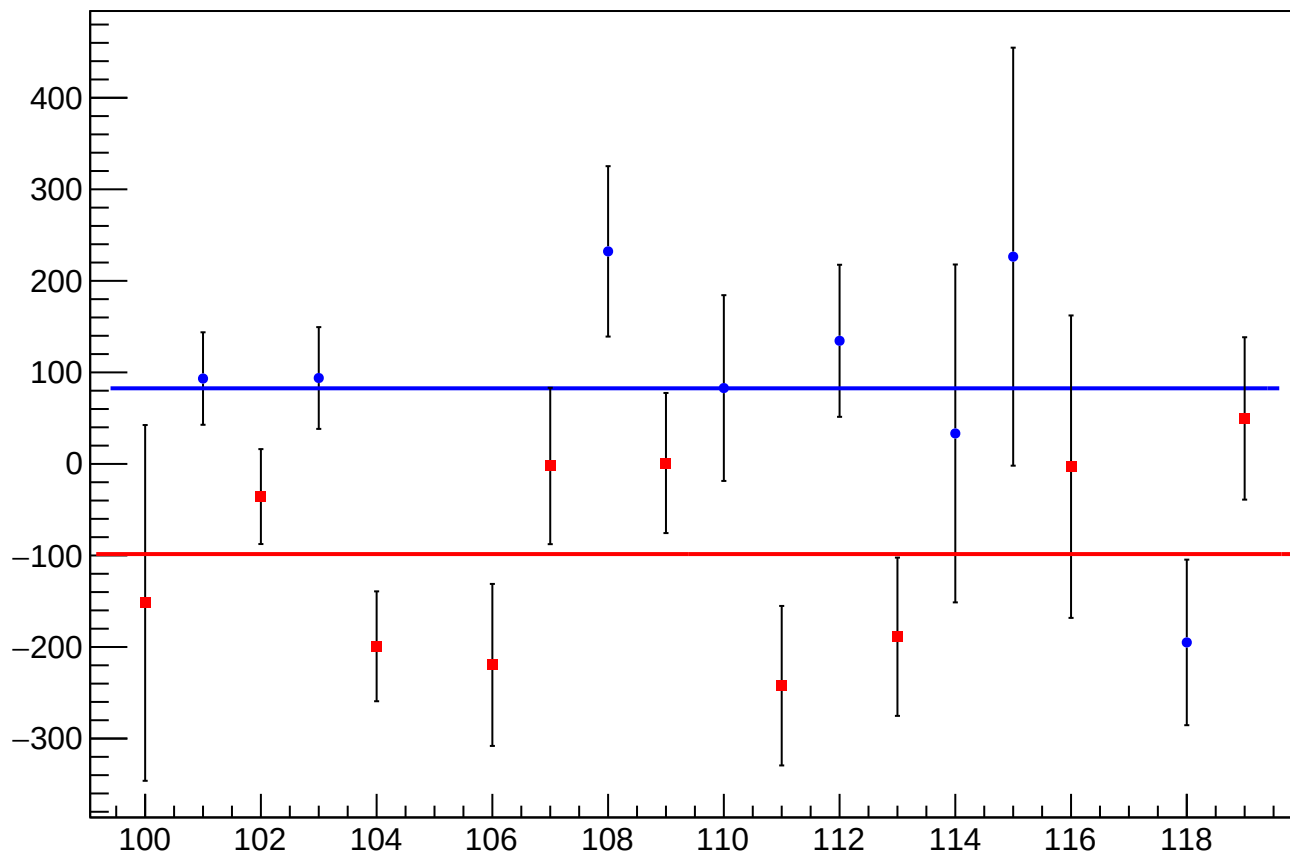
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 80.370+/-0.025  $\chi^2/\text{NDF}$ : 3657222.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 82.612 $\pm$ 28.356  $\chi^2/\text{NDF}$ : 13.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -98.477 $\pm$ 25.476  $\chi^2/\text{NDF}$ : 16.1/9

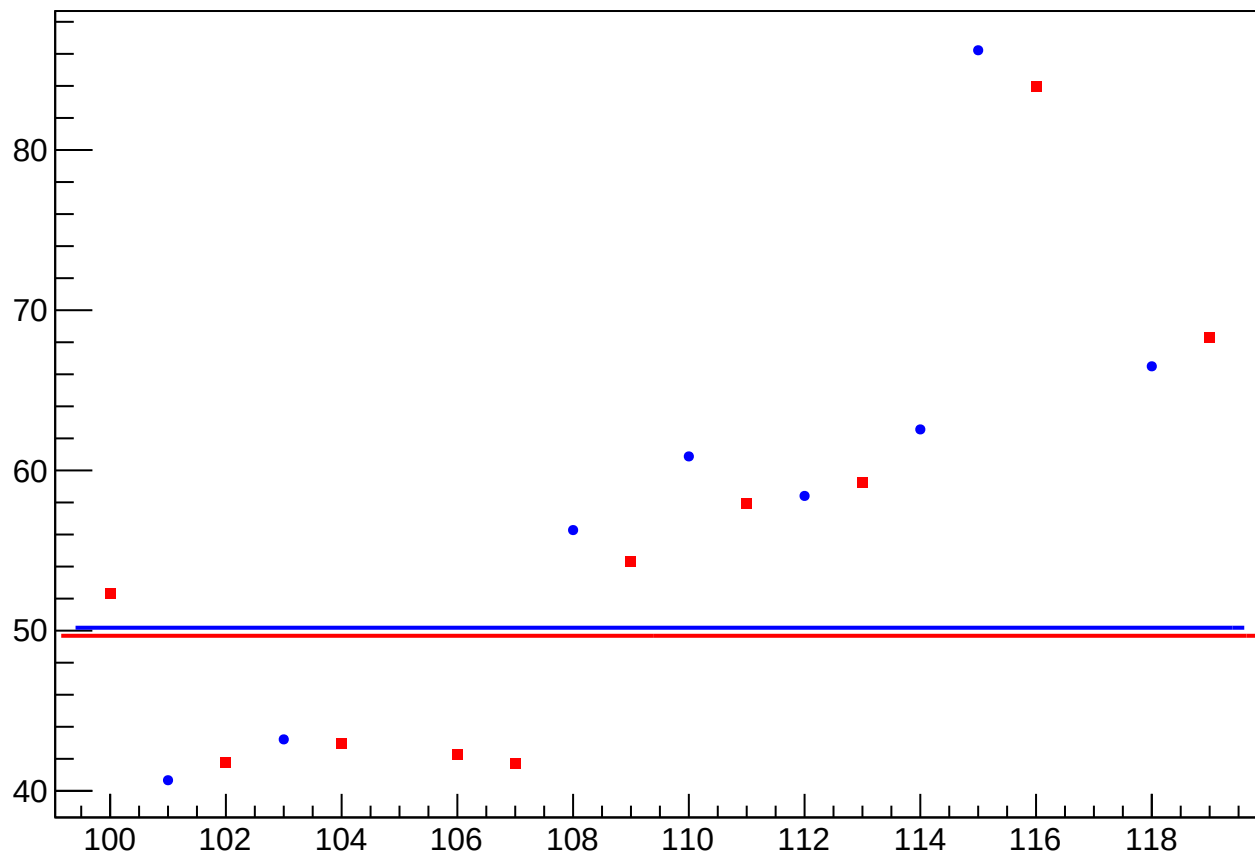
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -17.592 $\pm$ 18.951  $\chi^2/\text{NDF}$ : 51.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 50.183+/-0.020  $\chi^2/\text{NDF}$ : 276771.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 49.680+/-0.018  $\chi^2/\text{NDF}$ : 327289.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

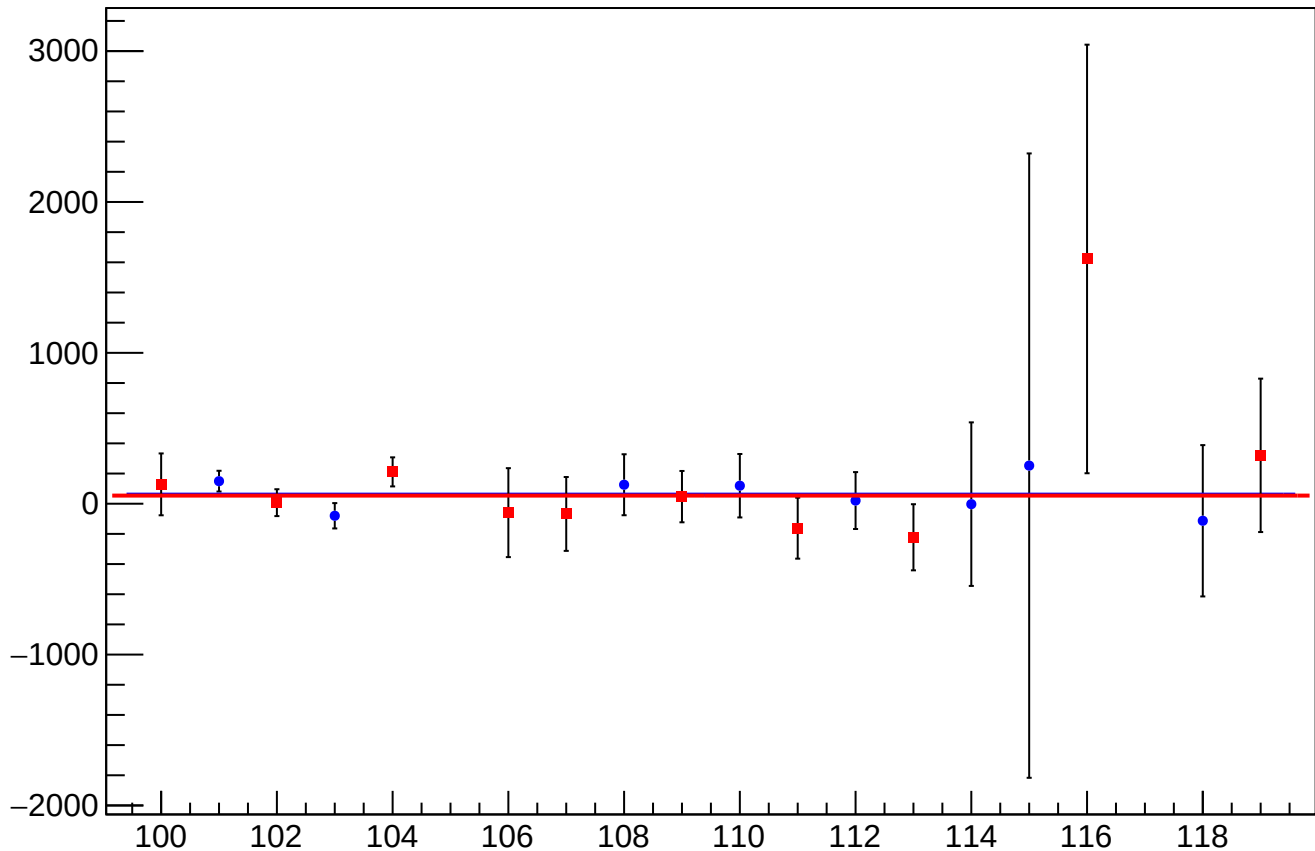
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.904+/-0.013  $\chi^2/\text{NDF}$ : 604409.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 60.134+/-47.892  $\chi^2/\text{NDF}$ : 4.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.834+/-51.977  $\chi^2/\text{NDF}$ : 7.7/9

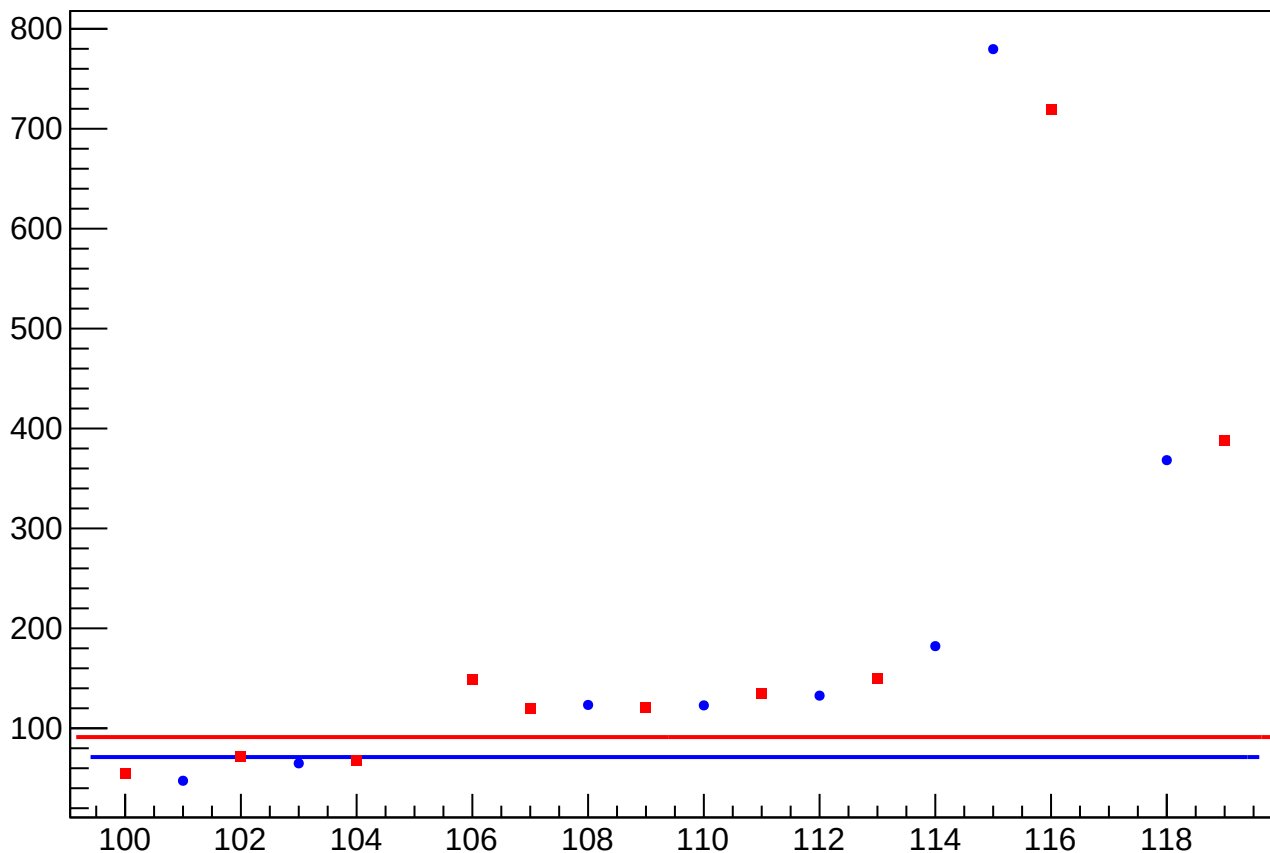
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 57.241+/-35.221  $\chi^2/\text{NDF}$ : 12.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 71.184+/-0.034  $\chi^2/\text{NDF}$ : 1736060.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 91.190+/-0.037  $\chi^2/\text{NDF}$ : 1760927.4/9

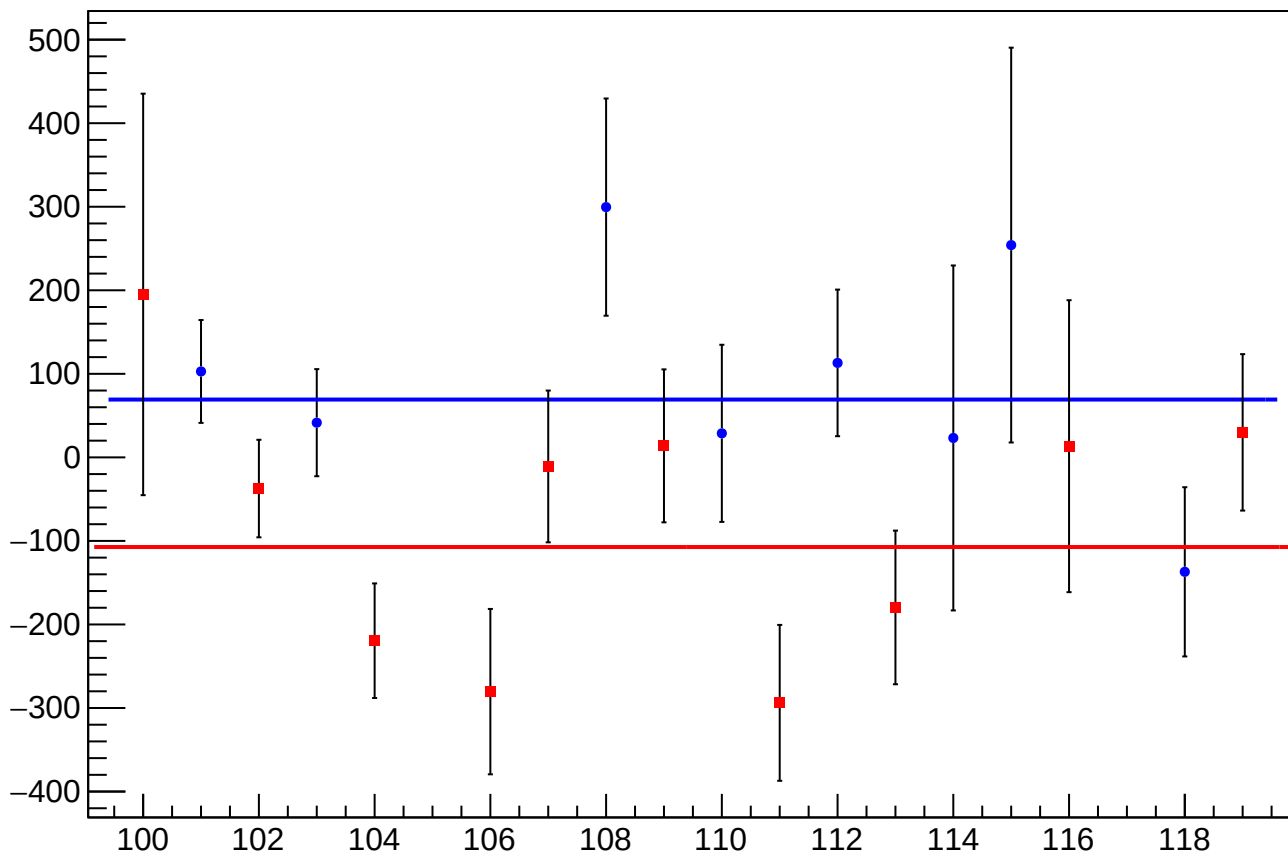
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 80.370+/-0.025  $\chi^2/\text{NDF}$ : 3657222.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 69.211+/-32.895  $\chi^2/\text{NDF}$ : 8.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -107.298+/-28.331  $\chi^2/\text{NDF}$ : 18.9/9

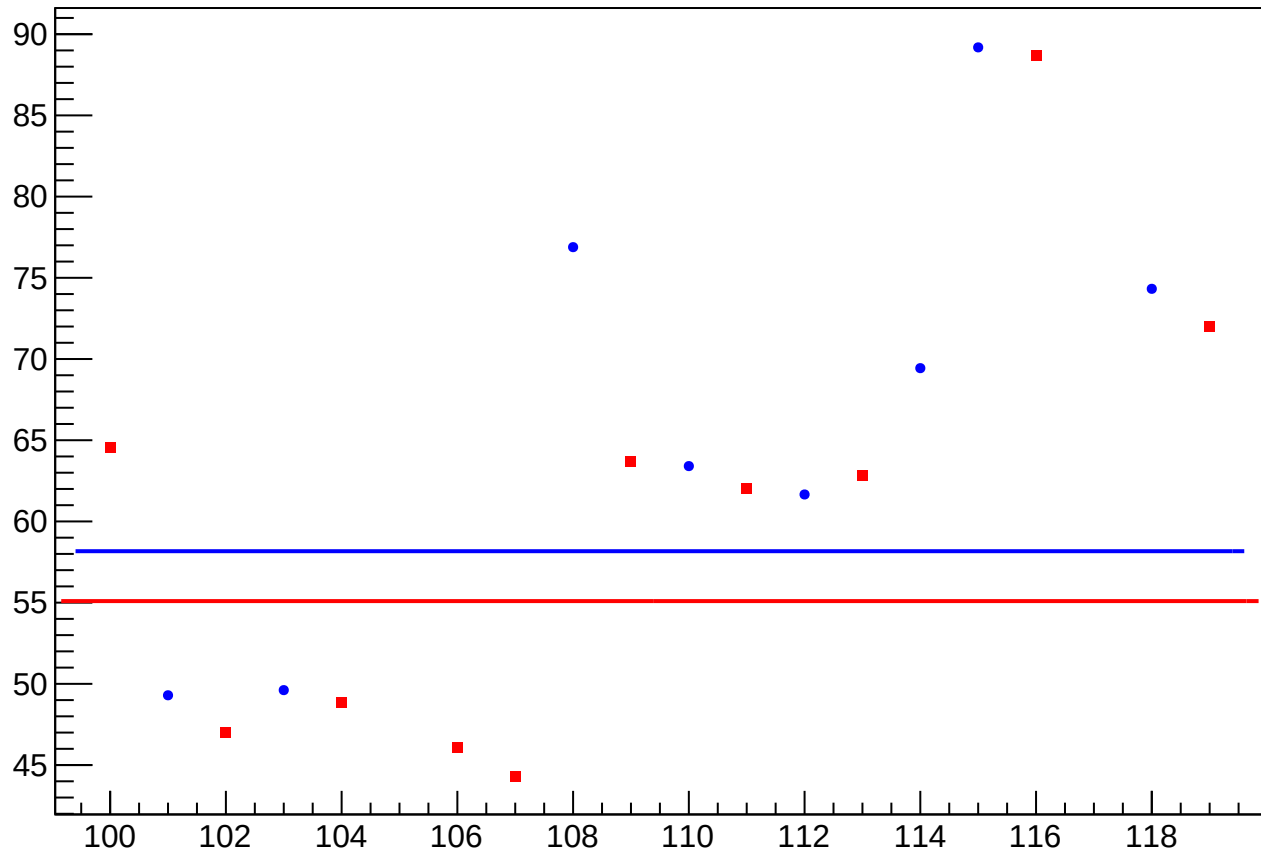
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.128+/-21.467  $\chi^2/\text{NDF}$ : 44.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 58.168 $\pm$ 0.023  $\chi^2$ /NDF: 217984.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 55.096 $\pm$ 0.020  $\chi^2$ /NDF: 285349.1/9

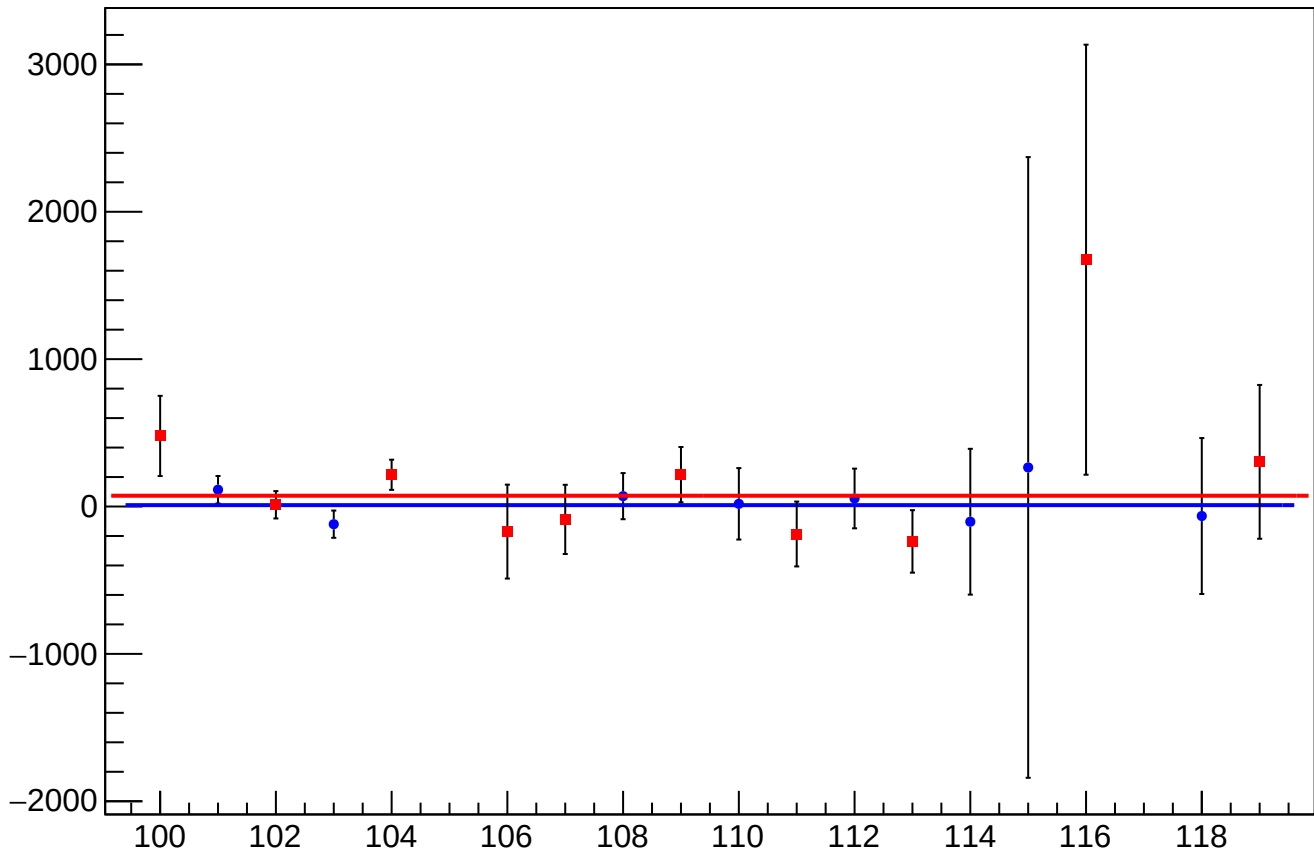
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.404 $\pm$ 0.015  $\chi^2$ /NDF: 513348.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_dit\_correction\_mean vs Slug



Right In: 9.327+/-55.730  $\chi^2/\text{NDF}$ : 3.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73.172+/-55.178  $\chi^2/\text{NDF}$ : 11.2/9

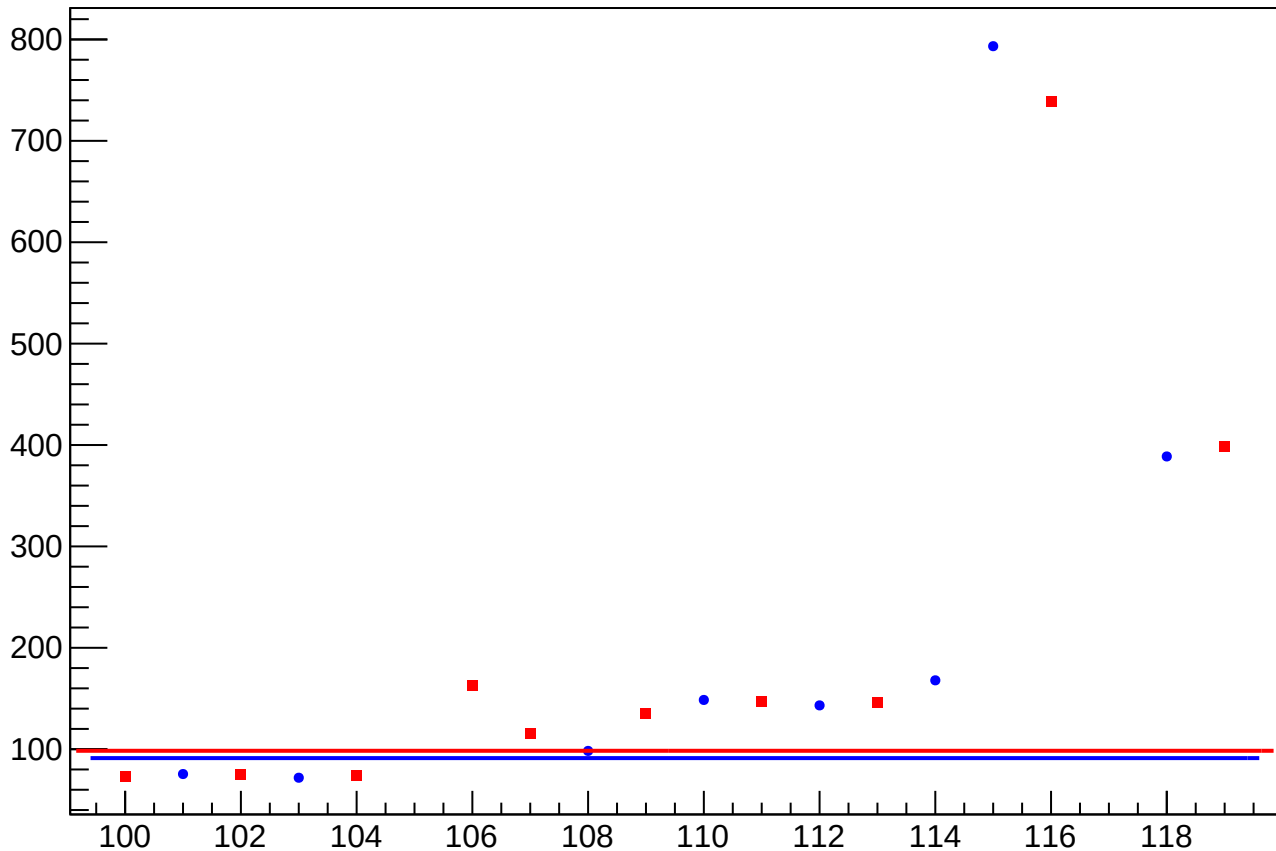
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.567+/-39.210  $\chi^2/\text{NDF}$ : 15.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_dit\_correction\_rms vs Slug



Right In: 91.206+/-0.039  $\chi^2/\text{NDF}$ : 1295209.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 98.429+/-0.039  $\chi^2/\text{NDF}$ : 1679498.9/9

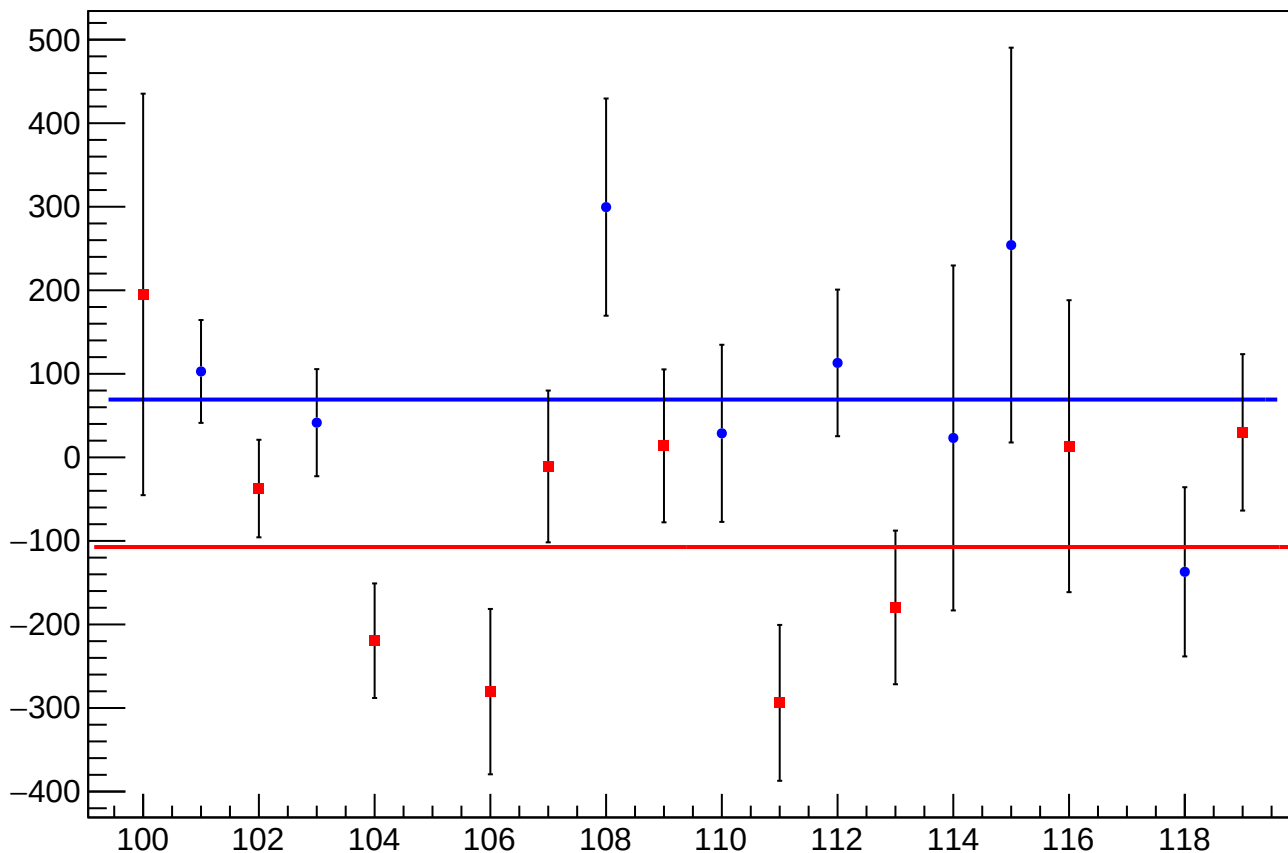
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.853+/-0.028  $\chi^2/\text{NDF}$ : 2991676.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 69.211+/-32.895  $\chi^2/\text{NDF}$ : 8.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -107.298+/-28.331  $\chi^2/\text{NDF}$ : 18.9/9

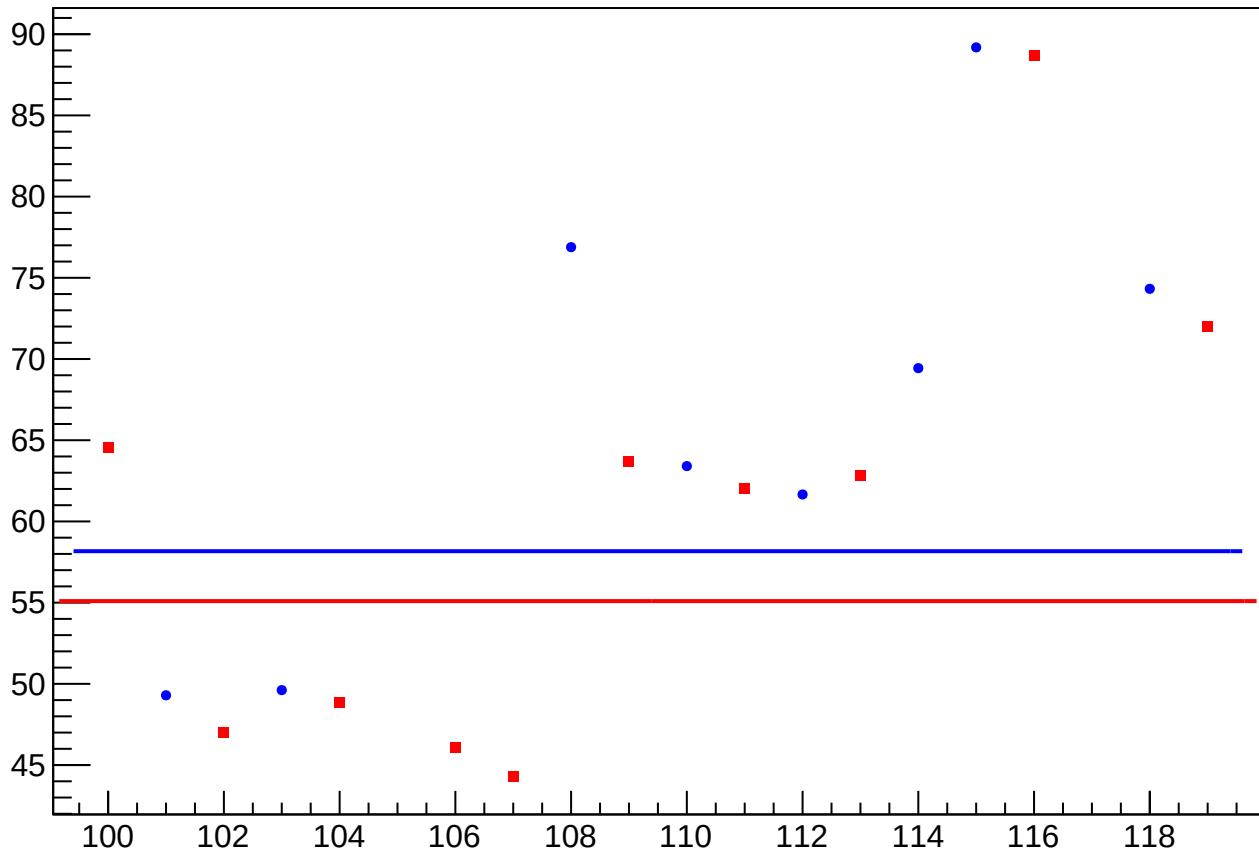
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.128+/-21.467  $\chi^2/\text{NDF}$ : 44.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 58.168 $\pm$ 0.023  $\chi^2$ /NDF: 217984.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 55.095 $\pm$ 0.020  $\chi^2$ /NDF: 285349.5/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

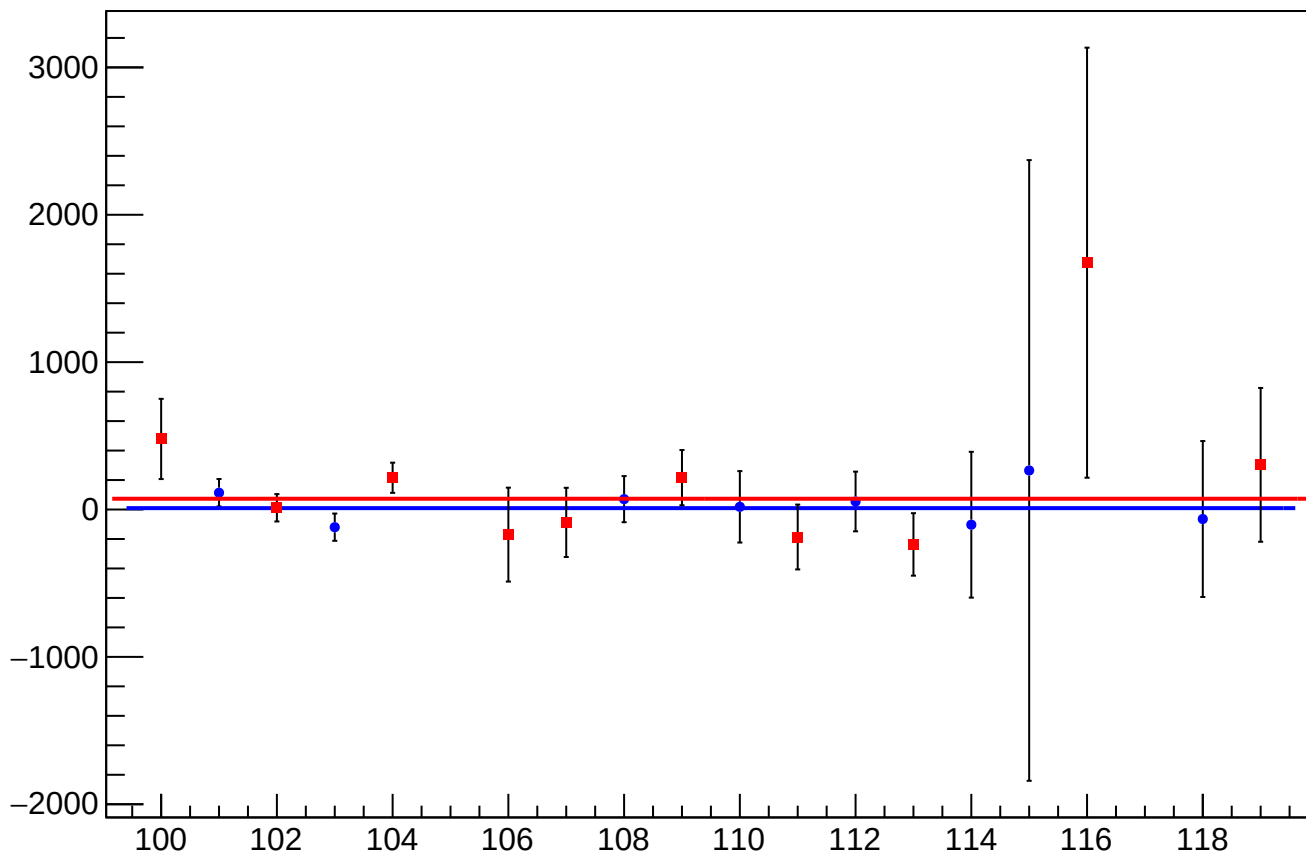
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.404 $\pm$ 0.015  $\chi^2$ /NDF: 513349.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 9.326+/-55.730  $\chi^2$ /NDF: 3.5/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 73.171+/-55.177  $\chi^2$ /NDF: 11.2/9

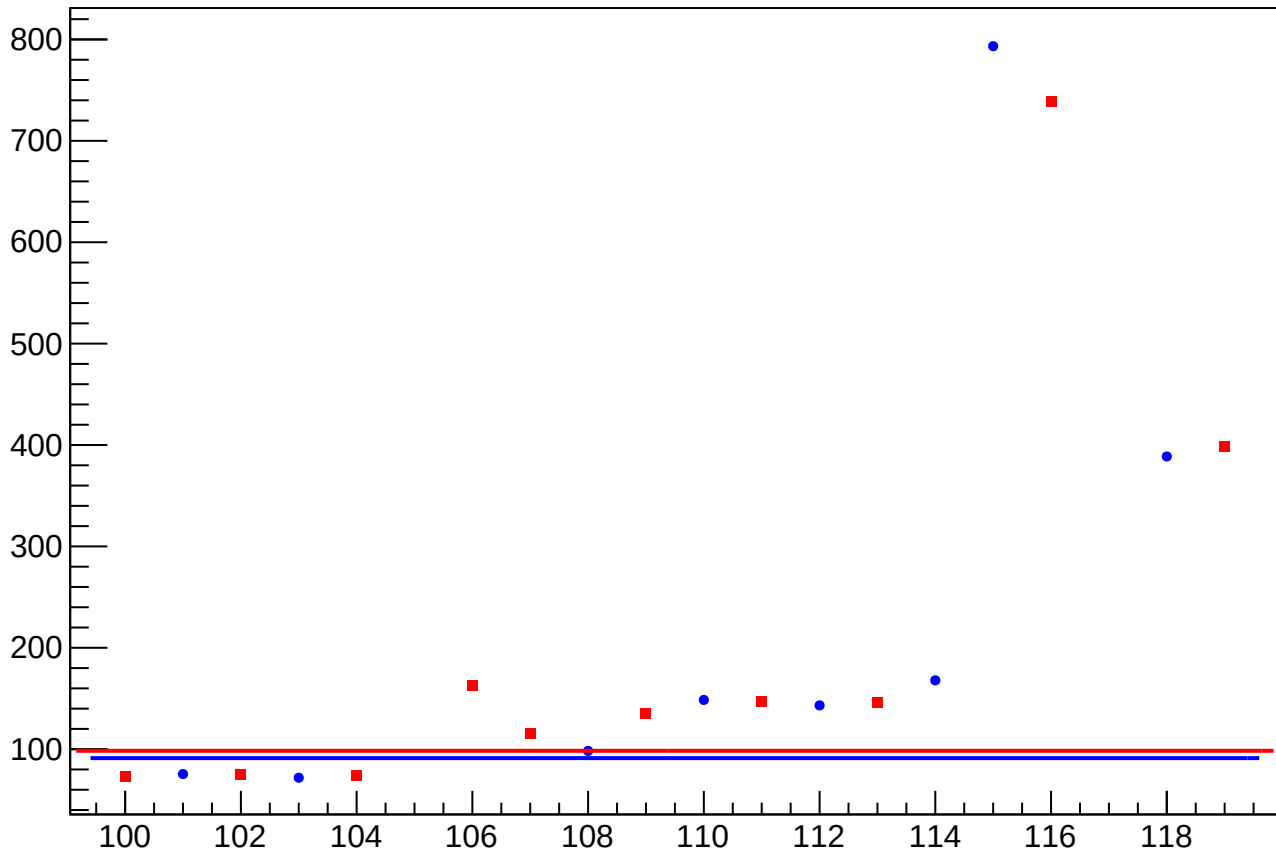
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 41.567+/-39.210  $\chi^2$ /NDF: 15.3/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 91.205+/-0.039  $\chi^2/\text{NDF}$ : 1295212.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 98.429+/-0.039  $\chi^2/\text{NDF}$ : 1679505.7/9

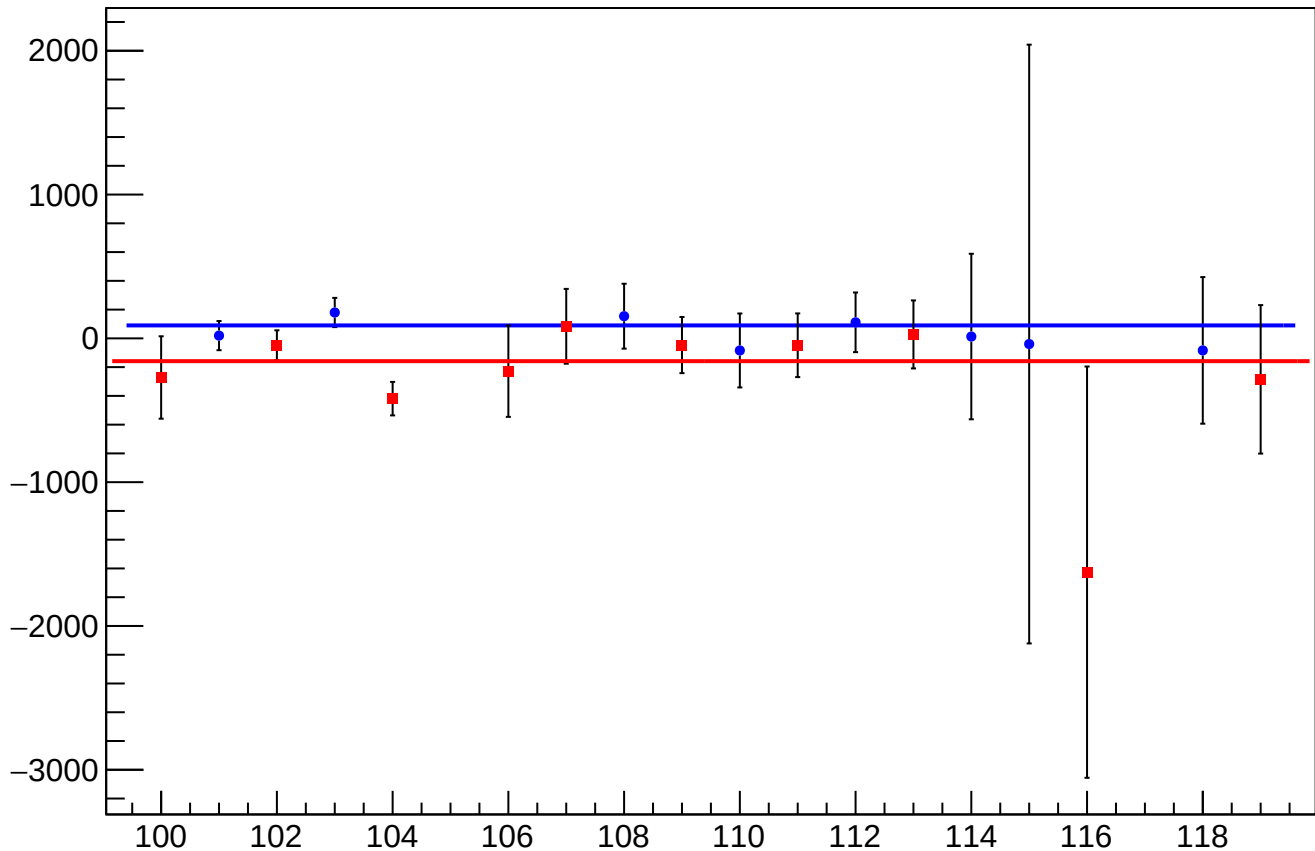
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.853+/-0.028  $\chi^2/\text{NDF}$ : 2991685.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_mean vs Slug



Right In: 90.062 $\pm$ 62.090  $\chi^2$ /NDF: 2.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -158.493 $\pm$ 60.553  $\chi^2$ /NDF: 9.5/9

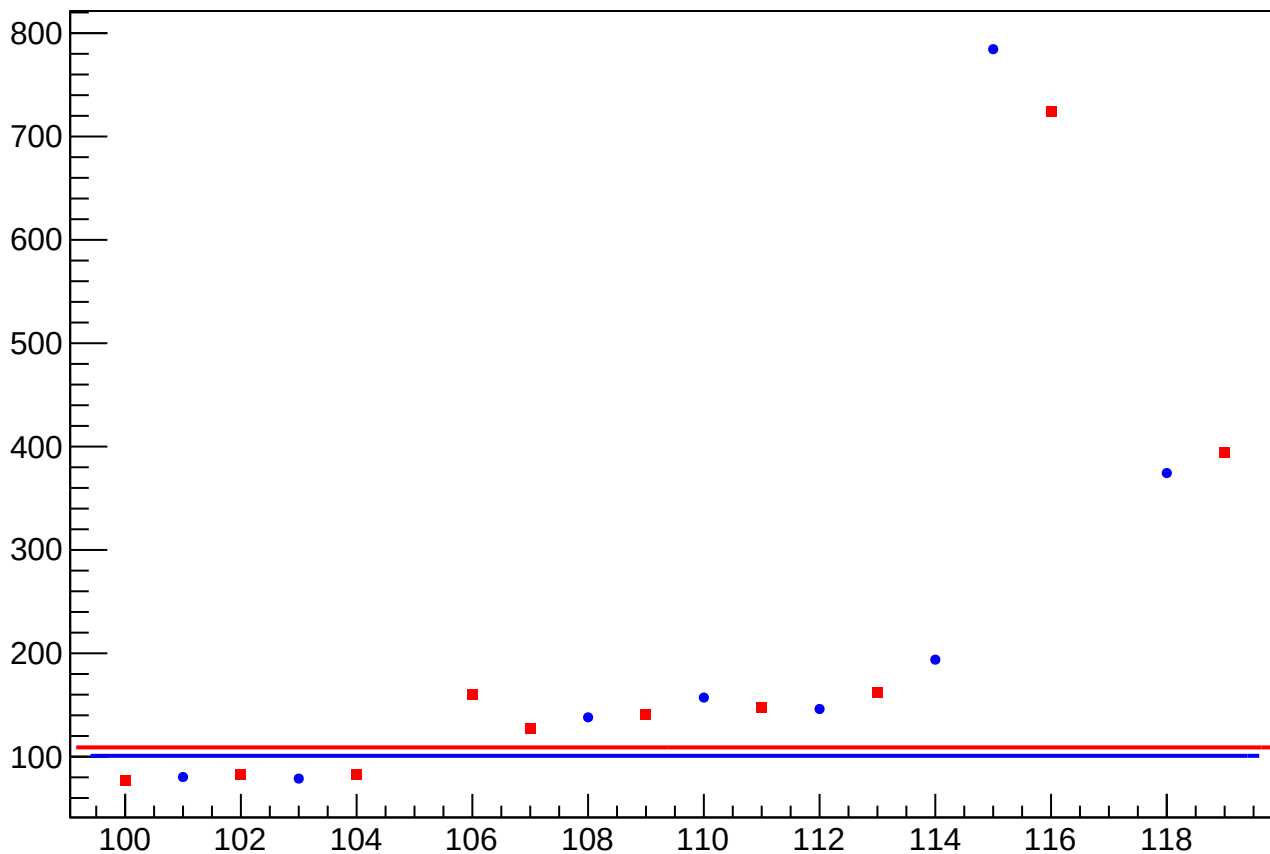
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -37.330 $\pm$ 43.350  $\chi^2$ /NDF: 19.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_avg\_rms vs Slug



Right In: 100.817+/-0.044  $\chi^2/\text{NDF}$ : 1266055.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 108.972+/-0.043  $\chi^2/\text{NDF}$ : 1510553.2/9

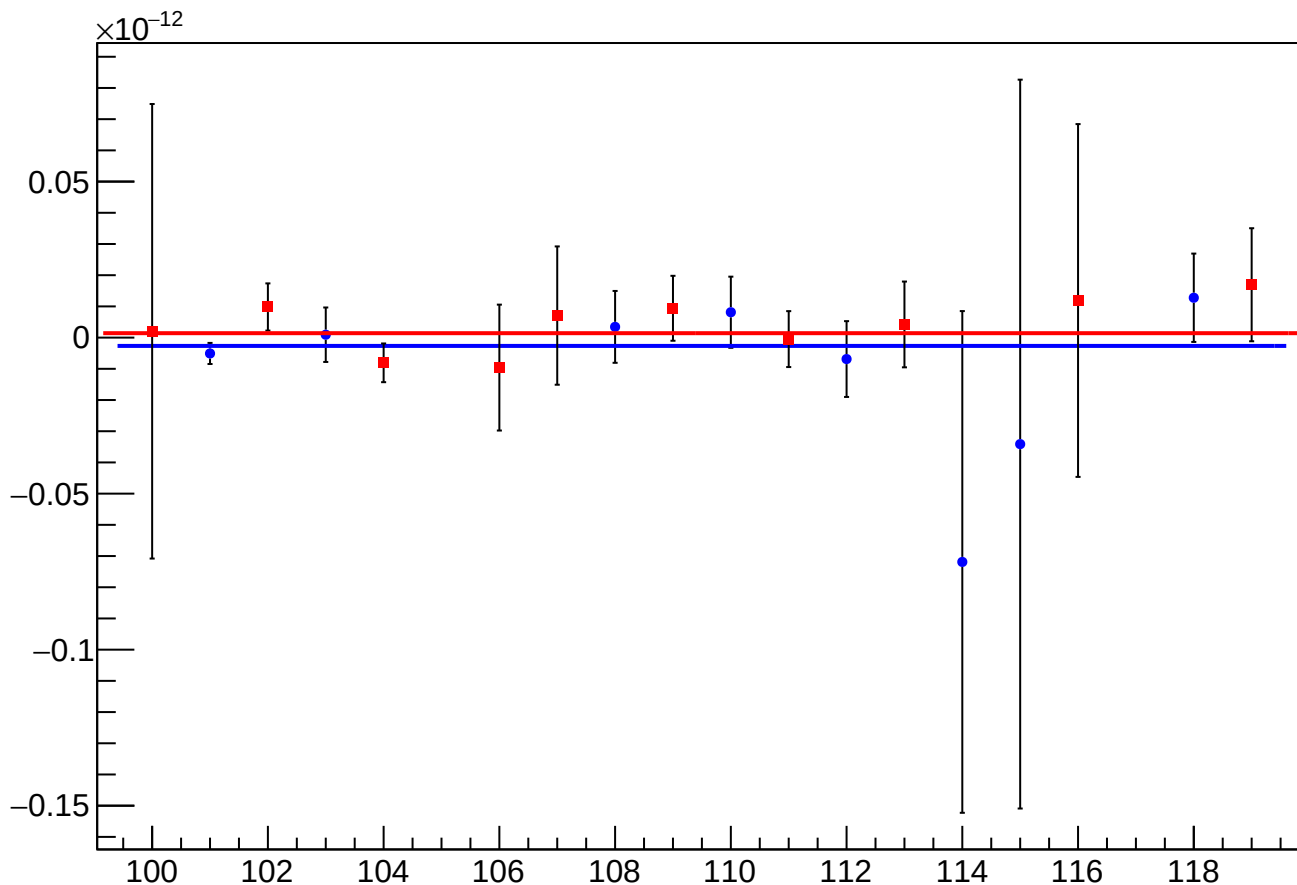
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 104.997+/-0.031  $\chi^2/\text{NDF}$ : 2794291.5/17

- 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  $\chi^2$ /NDF: 4.0/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 5.4/9

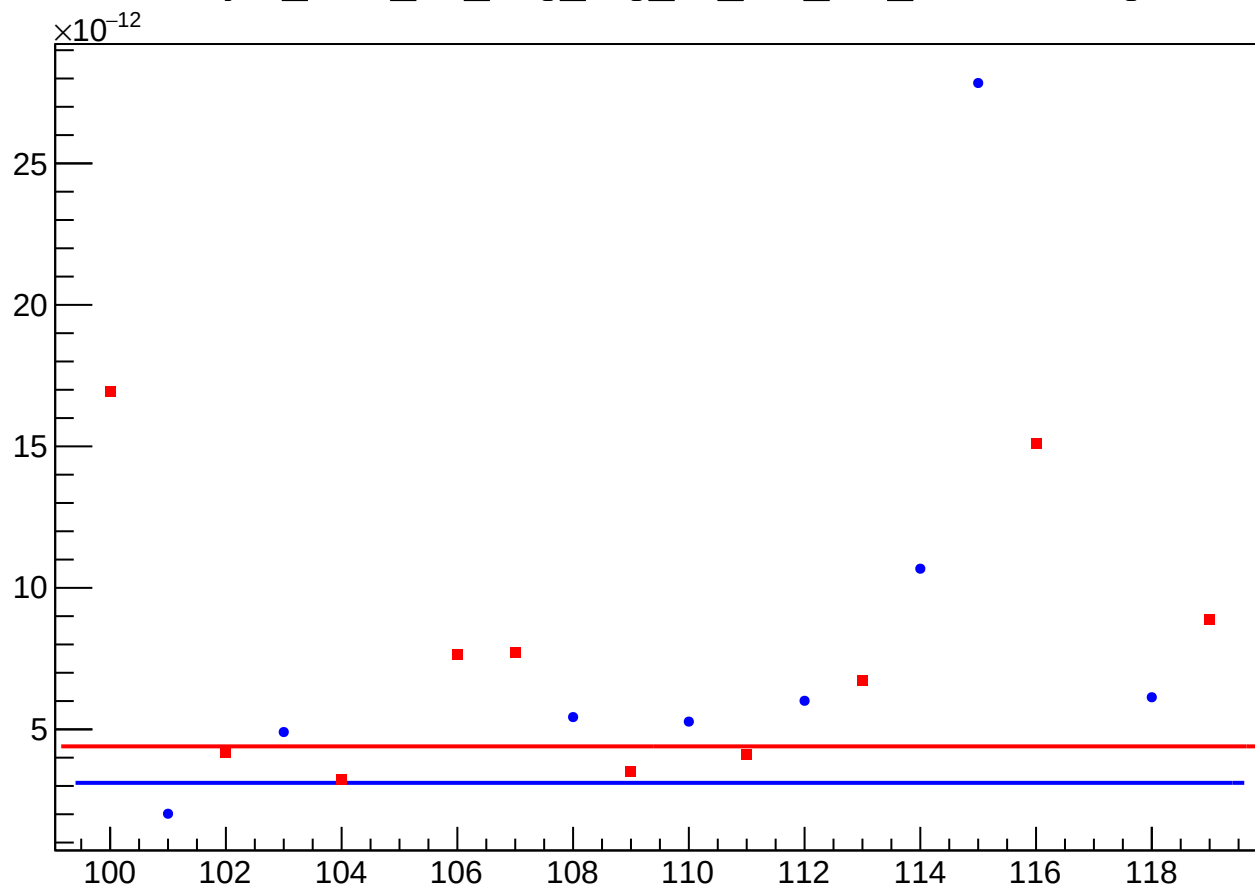
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 10.2/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 759619.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 498754.8/9

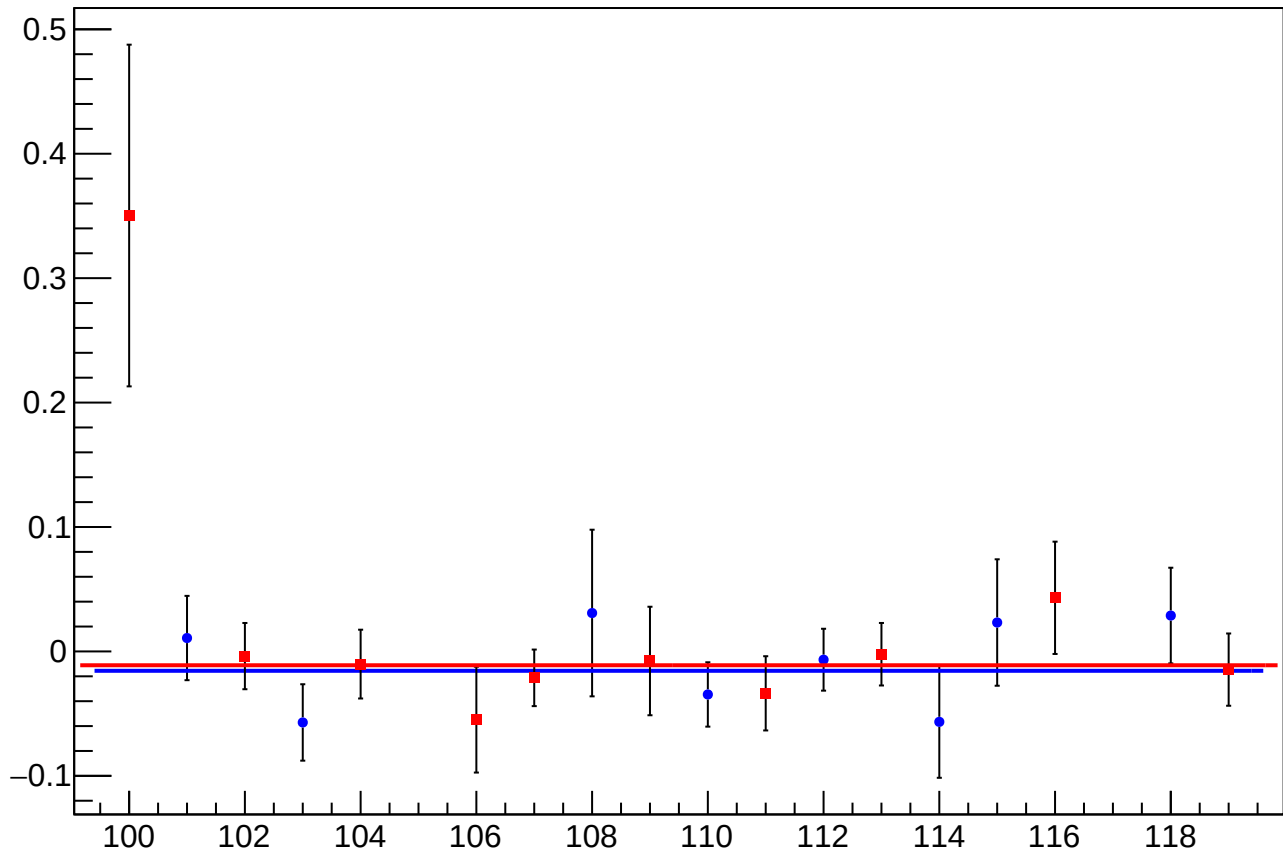
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1420103.8/17

- 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: -0.016 $\pm$ 0.012  $\chi^2$ /NDF: 6.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.011 $\pm$ 0.010  $\chi^2$ /NDF: 10.4/9

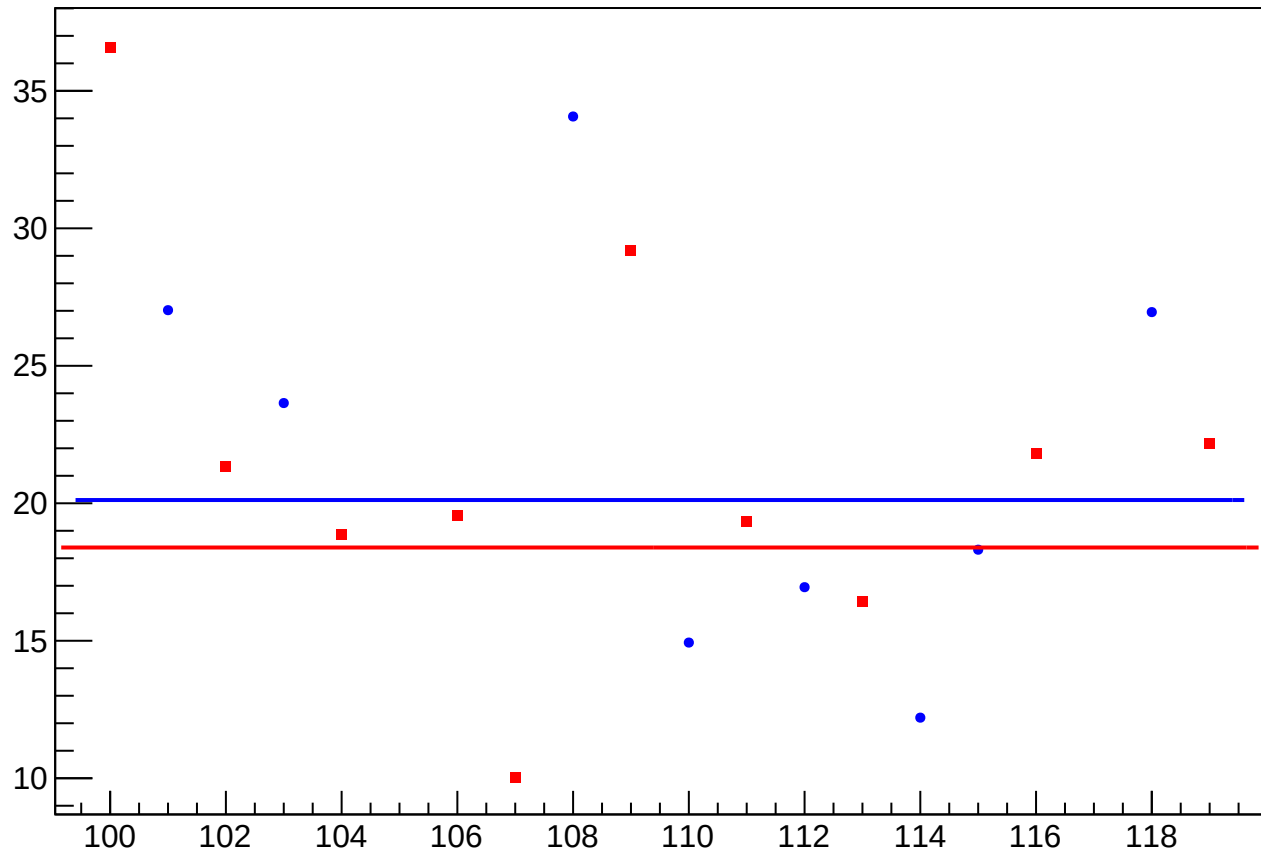
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.008  $\chi^2$ /NDF: 16.8/17

- 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: 20.118+/-0.009  $\chi^2/\text{NDF}$ : 436834.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.392+/-0.007  $\chi^2/\text{NDF}$ : 514117.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

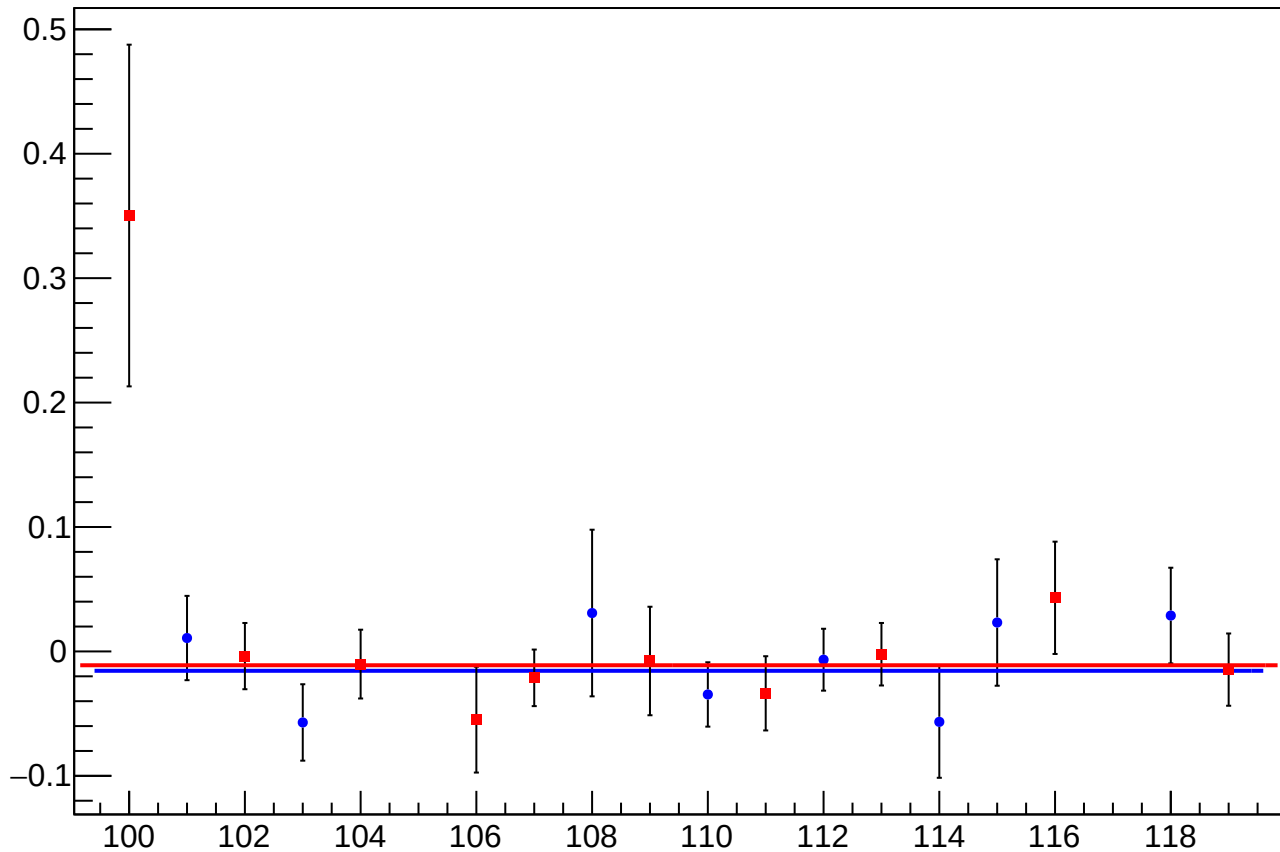
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.085+/-0.005  $\chi^2/\text{NDF}$ : 975308.3/17

- 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: -0.016 $\pm$ 0.012  $\chi^2$ /NDF: 6.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.011 $\pm$ 0.010  $\chi^2$ /NDF: 10.4/9

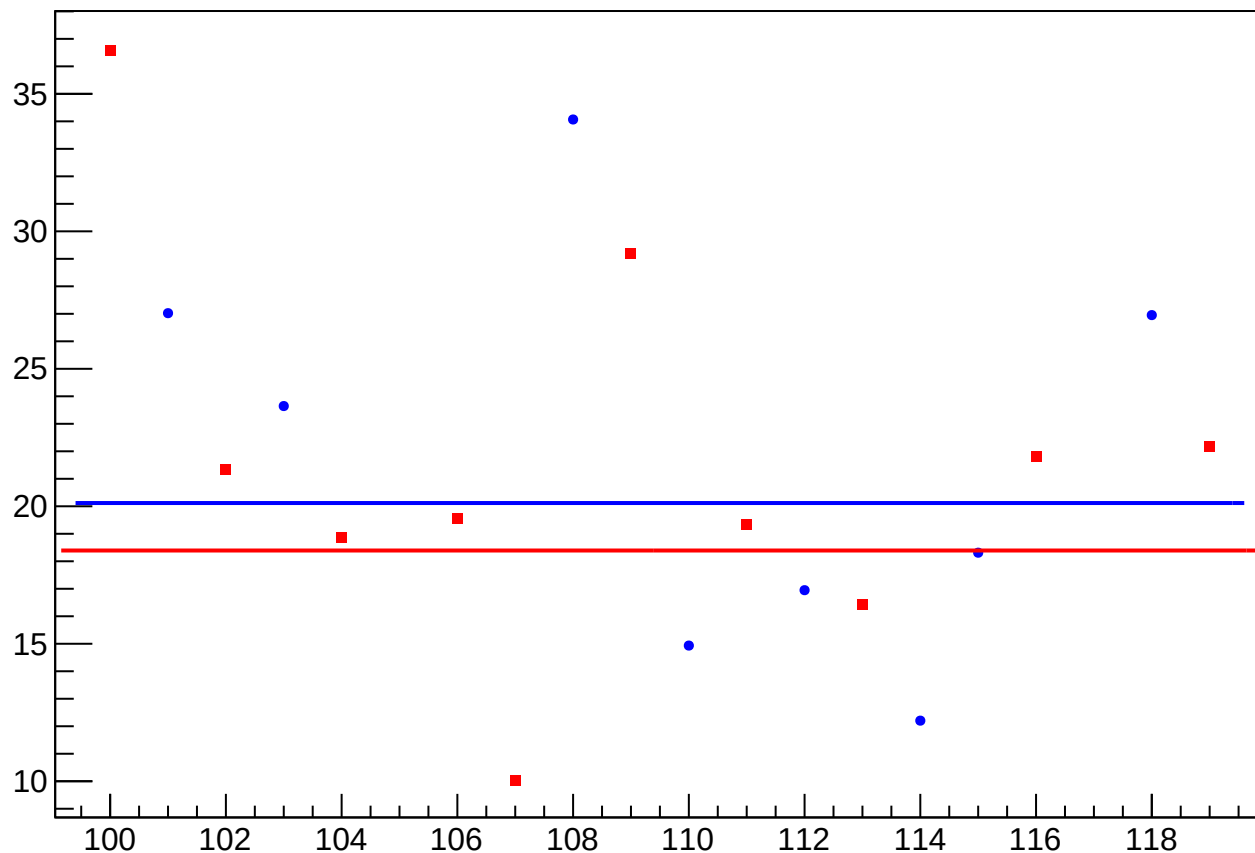
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.008  $\chi^2$ /NDF: 16.8/17

- 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: 20.118+/-0.009  $\chi^2/\text{NDF}$ : 436834.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.392+/-0.007  $\chi^2/\text{NDF}$ : 514117.5/9

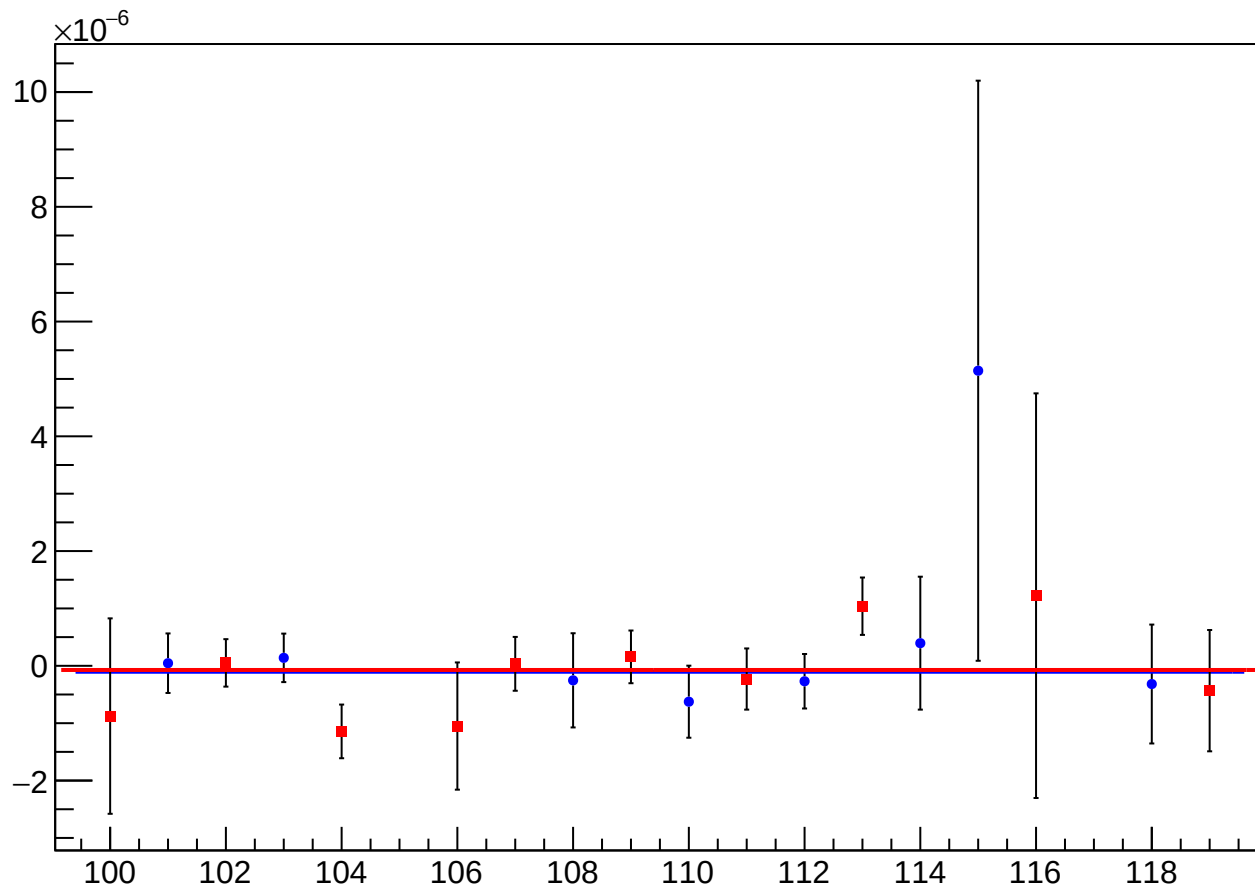
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.085+/-0.005  $\chi^2/\text{NDF}$ : 975308.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 2.6/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 11.9/9

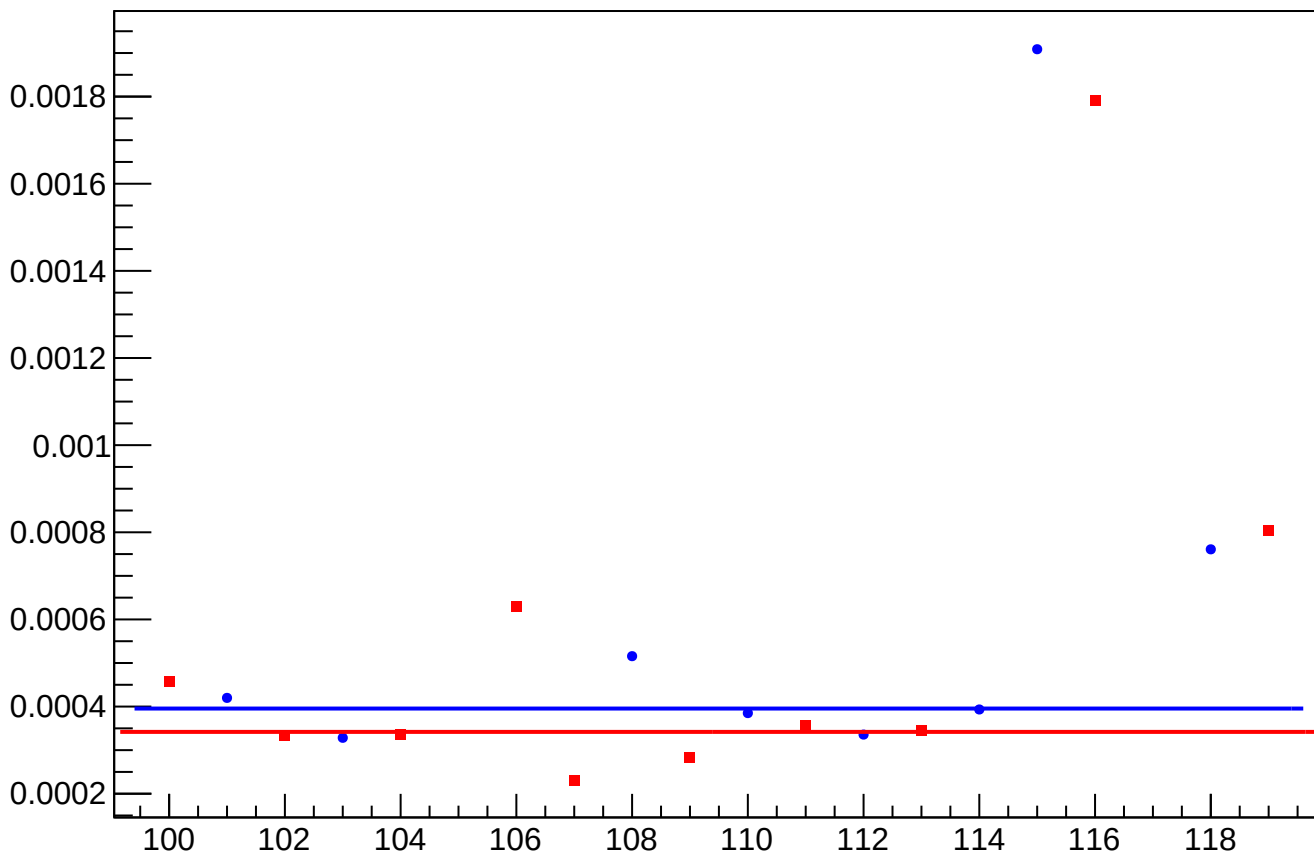
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 14.5/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 557997.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1015162.8/9

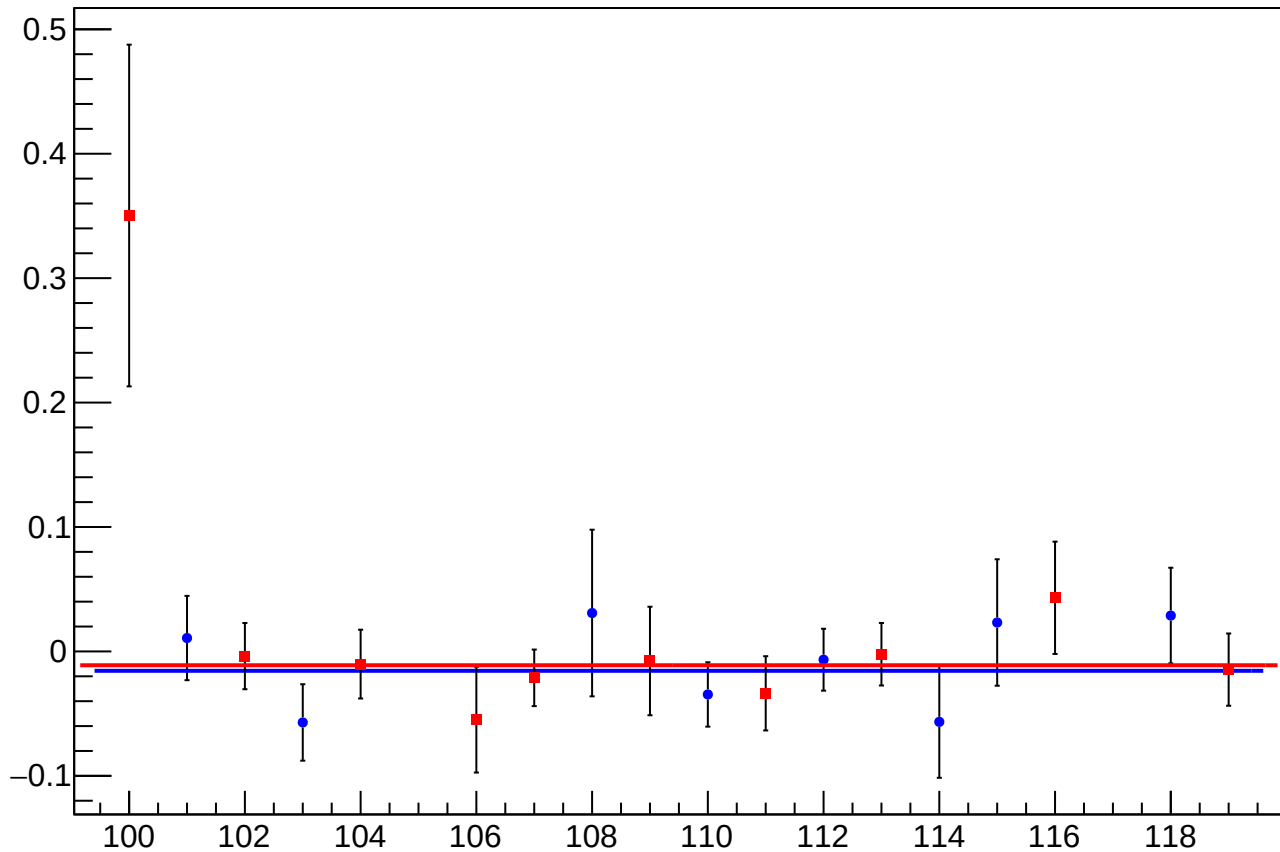
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1640402.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.016 $\pm$ 0.012  $\chi^2$ /NDF: 6.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.011 $\pm$ 0.010  $\chi^2$ /NDF: 10.4/9

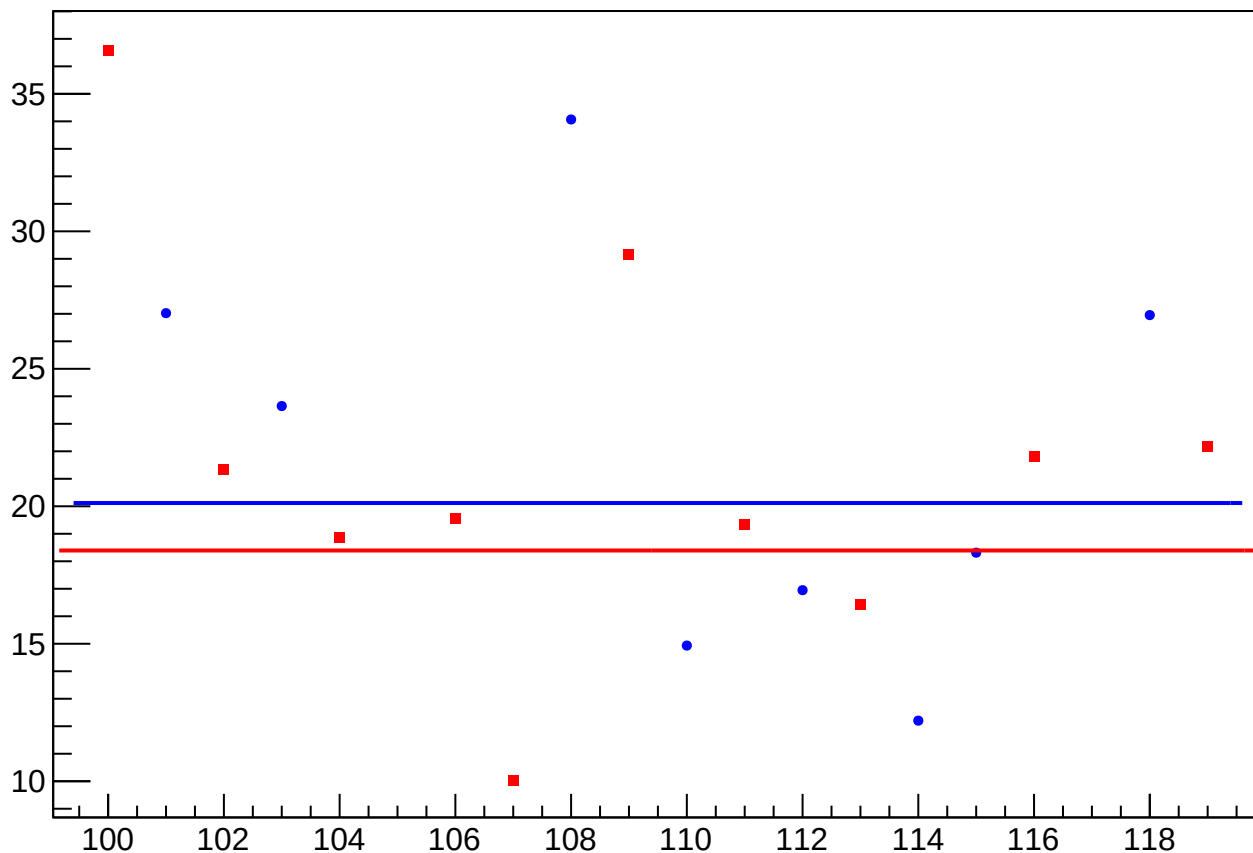
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.008  $\chi^2$ /NDF: 16.8/17

- 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: 20.118+/-0.009  $\chi^2/\text{NDF}$ : 436835.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.392+/-0.007  $\chi^2/\text{NDF}$ : 514132.4/9

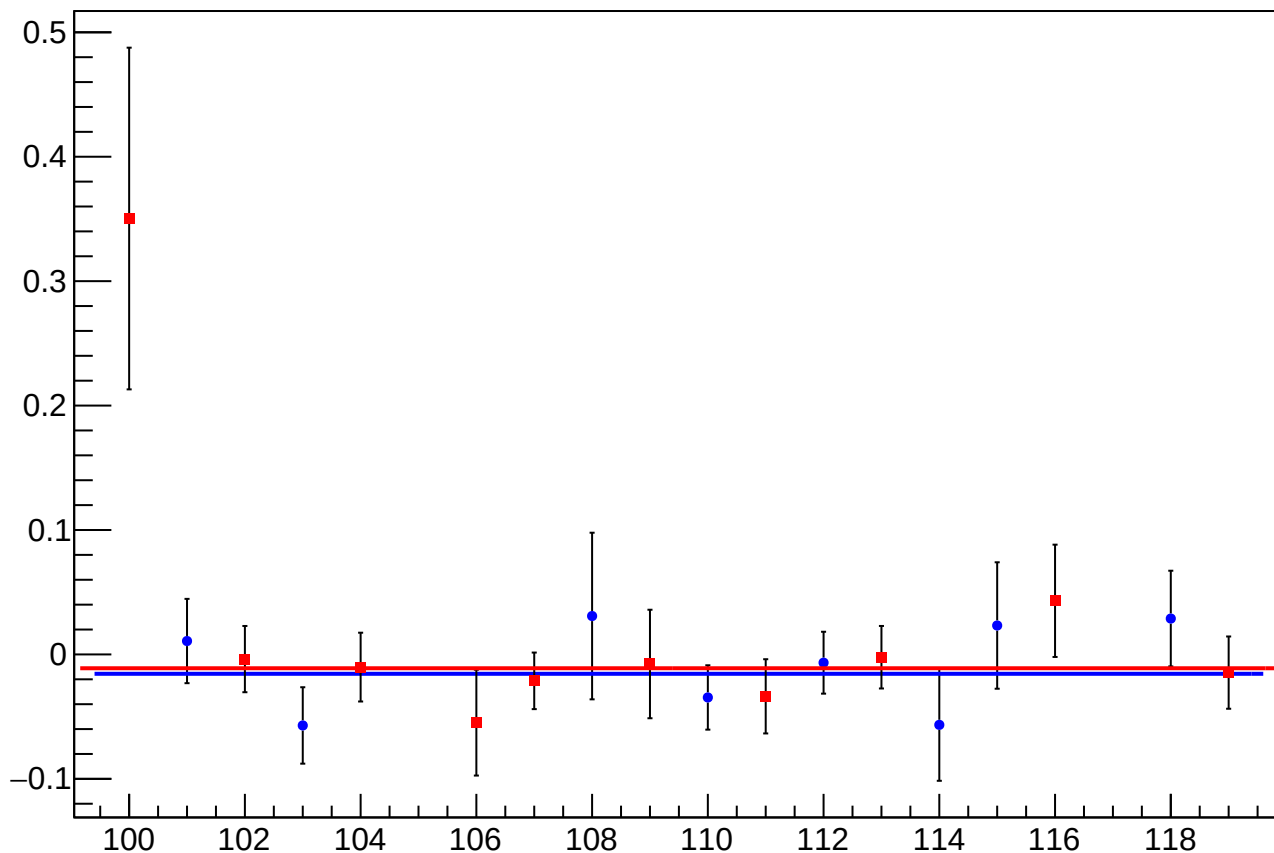
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.085+/-0.005  $\chi^2/\text{NDF}$ : 975324.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.016 $\pm$ 0.012  $\chi^2$ /NDF: 6.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.011 $\pm$ 0.010  $\chi^2$ /NDF: 10.4/9

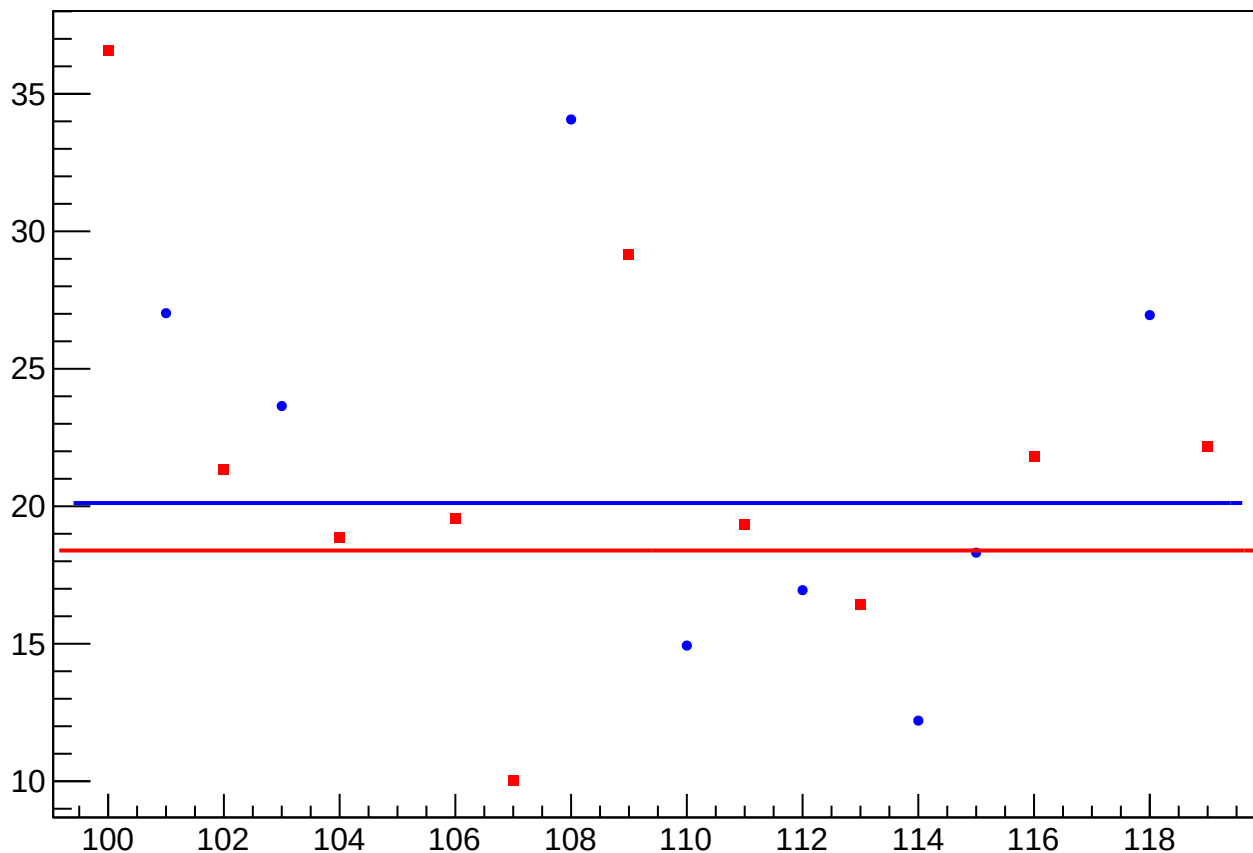
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.008  $\chi^2$ /NDF: 16.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 20.118+/-0.009  $\chi^2/\text{NDF}$ : 436835.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.392+/-0.007  $\chi^2/\text{NDF}$ : 514132.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

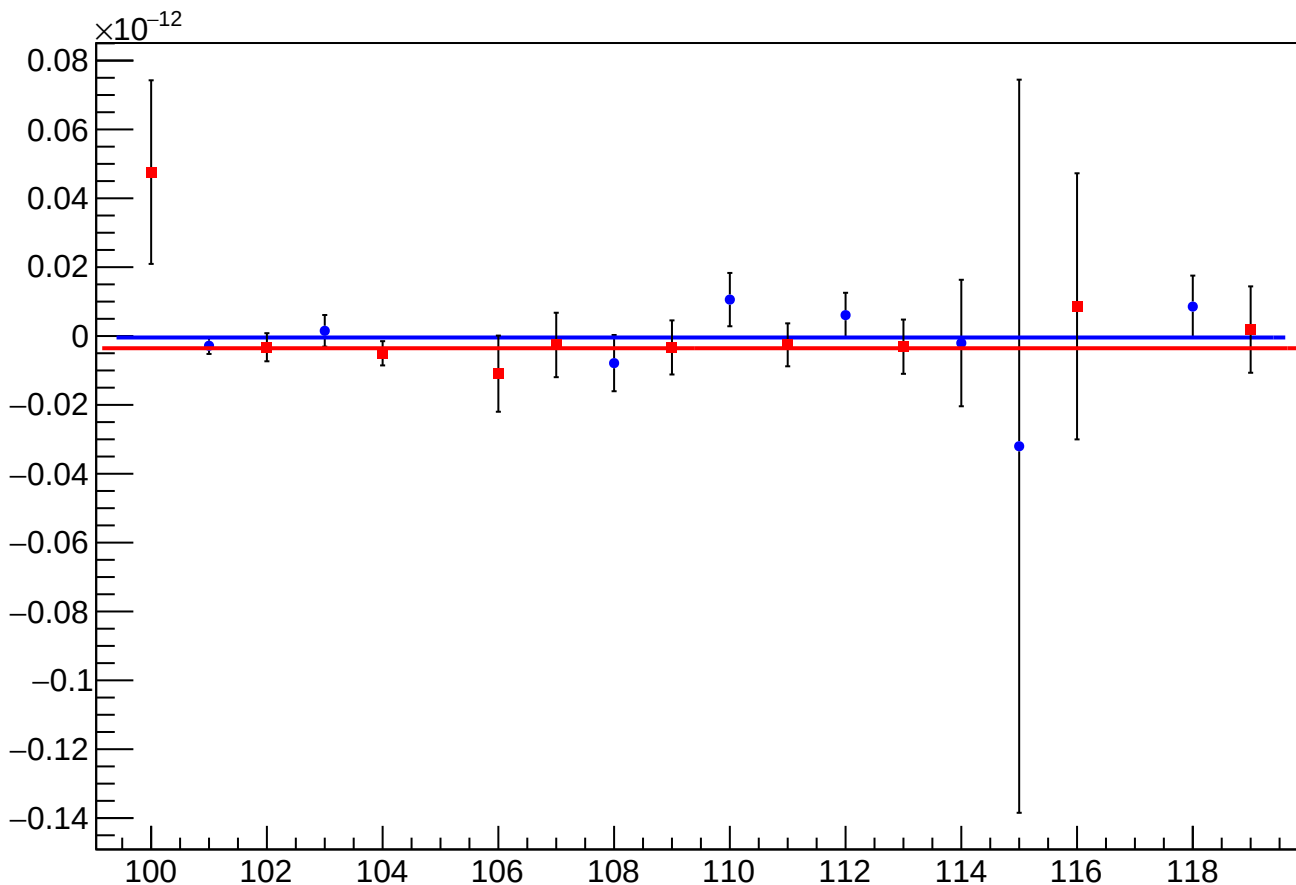
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.085+/-0.005  $\chi^2/\text{NDF}$ : 975324.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 6.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4.6/9

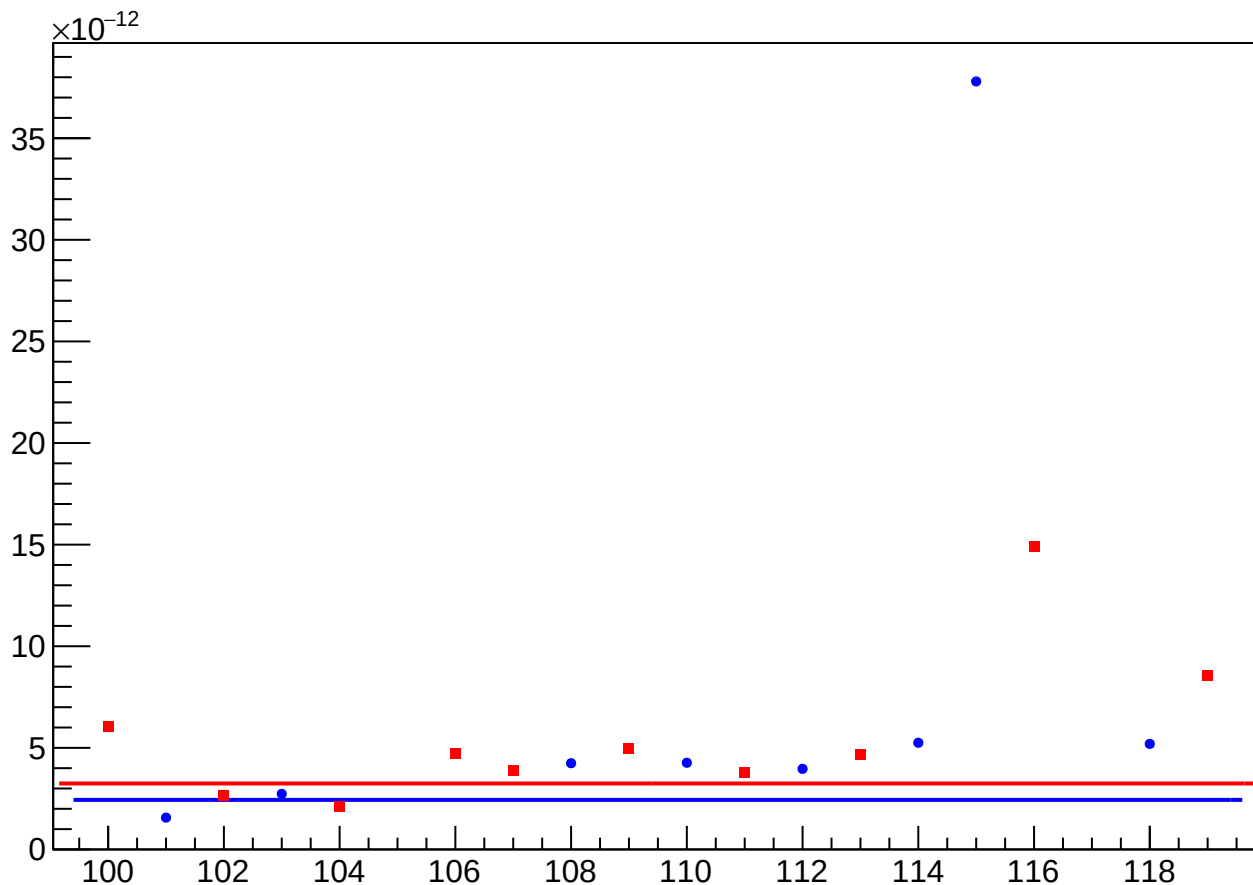
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 12.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1050900.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1033468.9/9

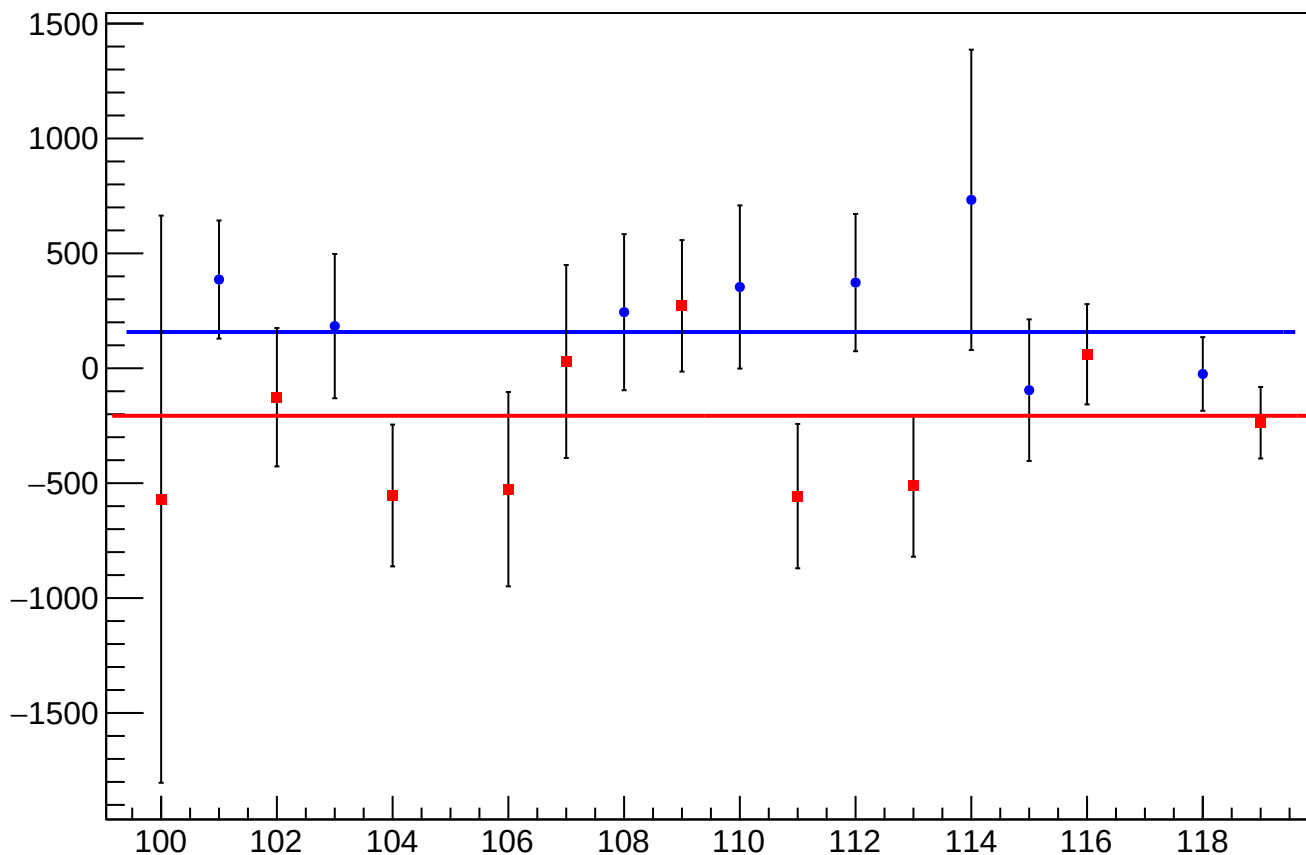
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2251326.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 157.788 $\pm$ 97.614  $\chi^2$ /NDF: 4.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -206.636 $\pm$ 88.158  $\chi^2$ /NDF: 8.9/9

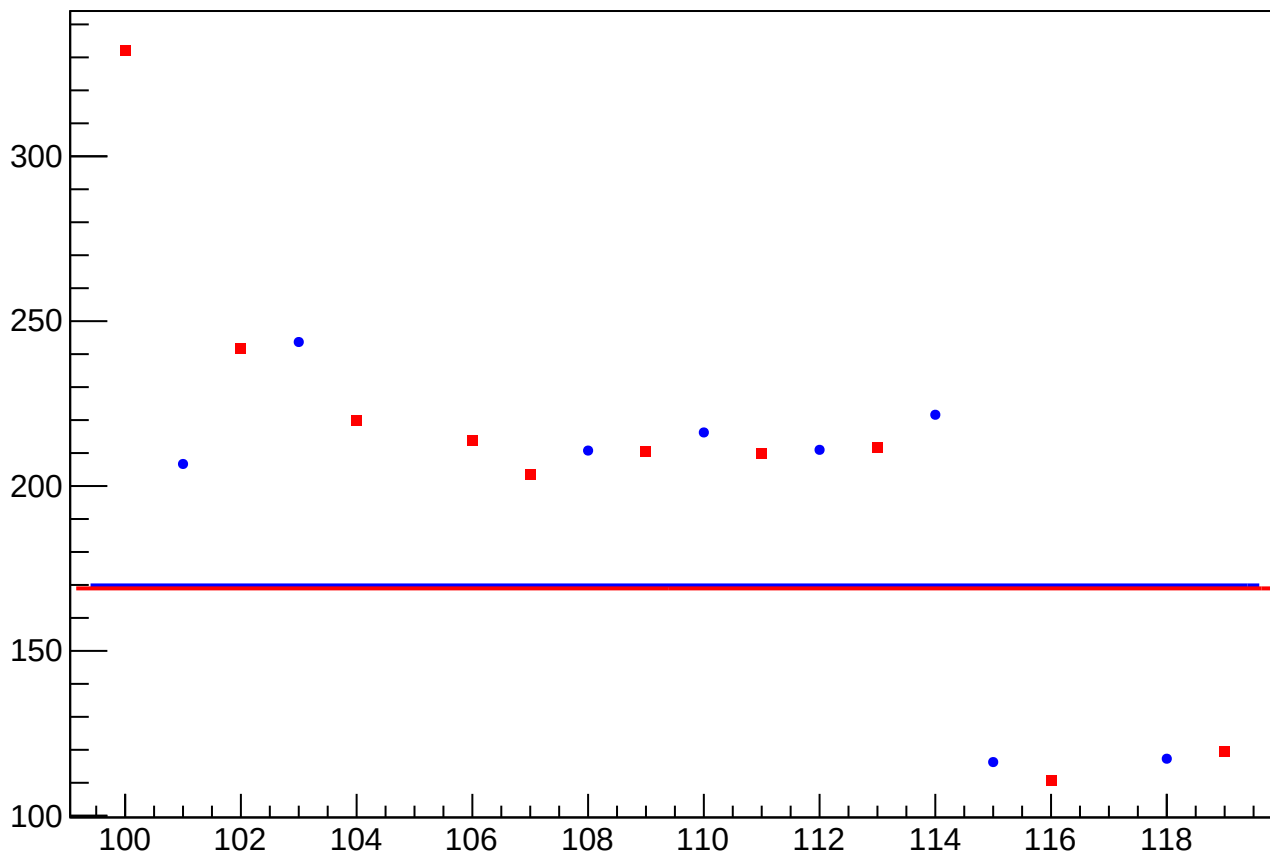
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -42.926 $\pm$ 65.426  $\chi^2$ /NDF: 21.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 169.852+/-0.069  $\chi^2/\text{NDF}$ : 541020.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 168.953+/-0.062  $\chi^2/\text{NDF}$ : 703403.9/9

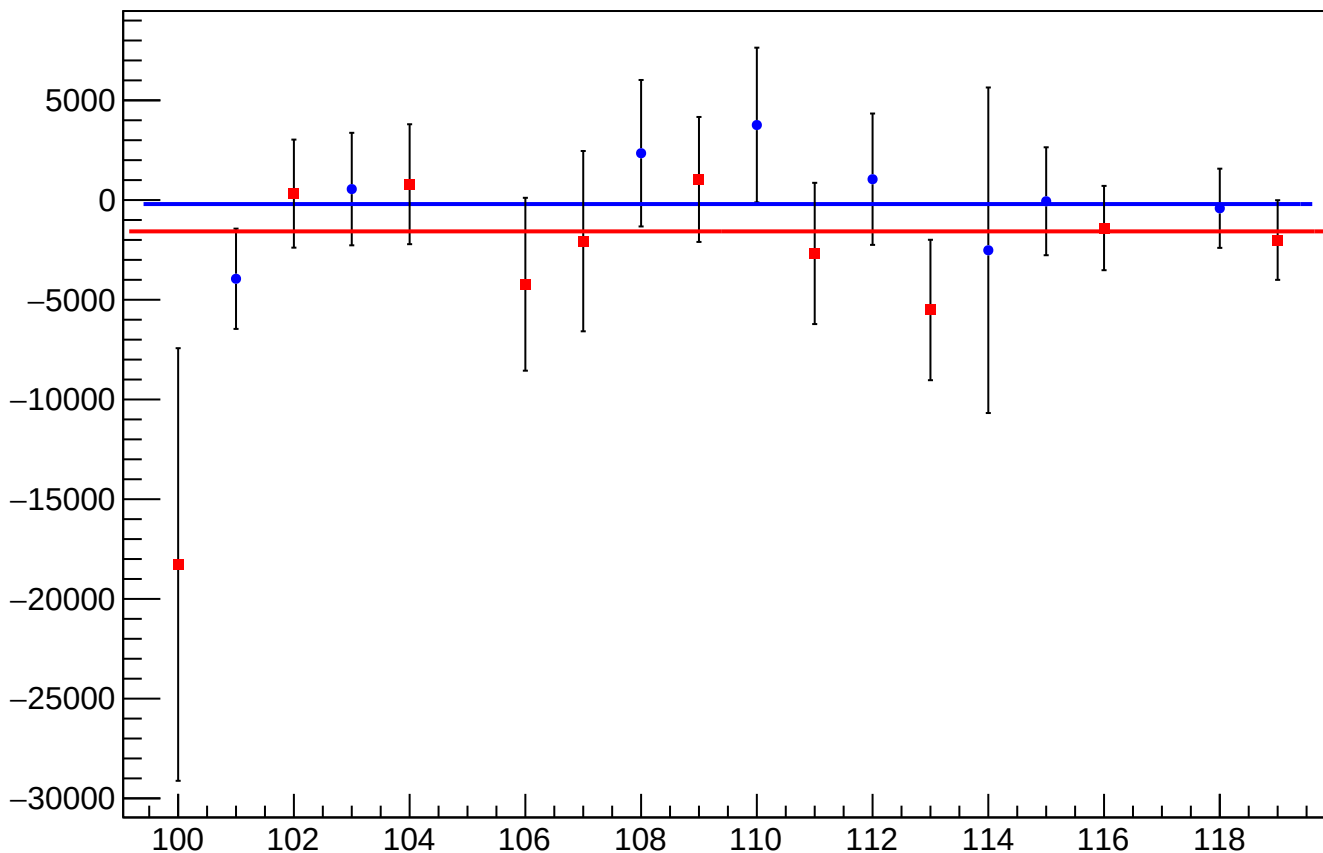
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 169.357+/-0.046  $\chi^2/\text{NDF}$ : 1244517.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_reg\_correction\_mean vs Slug



Right In: -201.310 $\pm$ 1041.431  $\chi^2$ /NDF: 4.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1571.245 $\pm$ 955.791  $\chi^2$ /NDF: 6.0/9

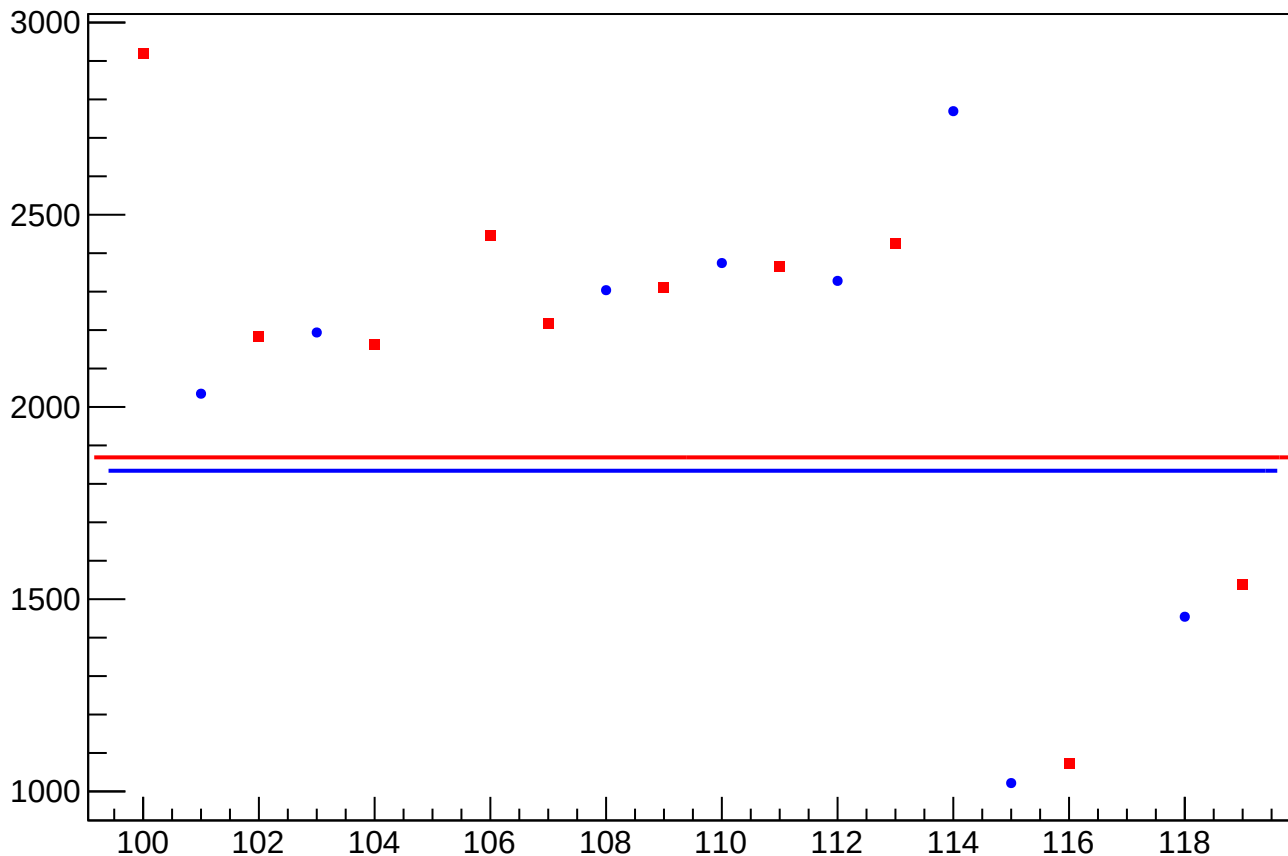
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -944.911 $\pm$ 704.179  $\chi^2$ /NDF: 11.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_avg\_reg\_correction\_rms vs Slug



Right In: 1834.115+/-0.736  $\chi^2/\text{NDF}$ : 441408.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1868.944+/-0.676  $\chi^2/\text{NDF}$ : 580687.2/9

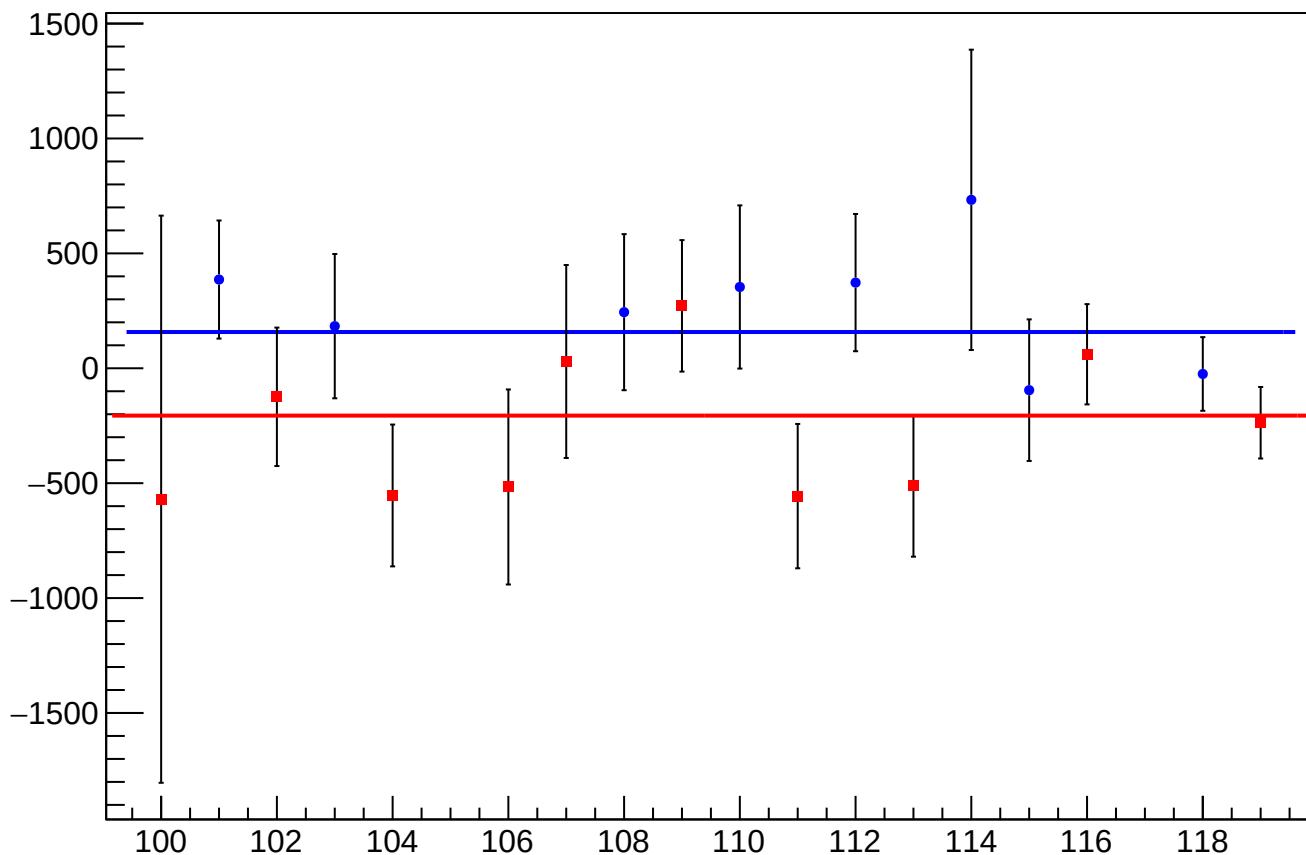
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1853.020+/-0.498  $\chi^2/\text{NDF}$ : 1023309.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 157.778 $\pm$ 97.614  $\chi^2$ /NDF: 4.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -205.970 $\pm$ 88.176  $\chi^2$ /NDF: 8.8/9

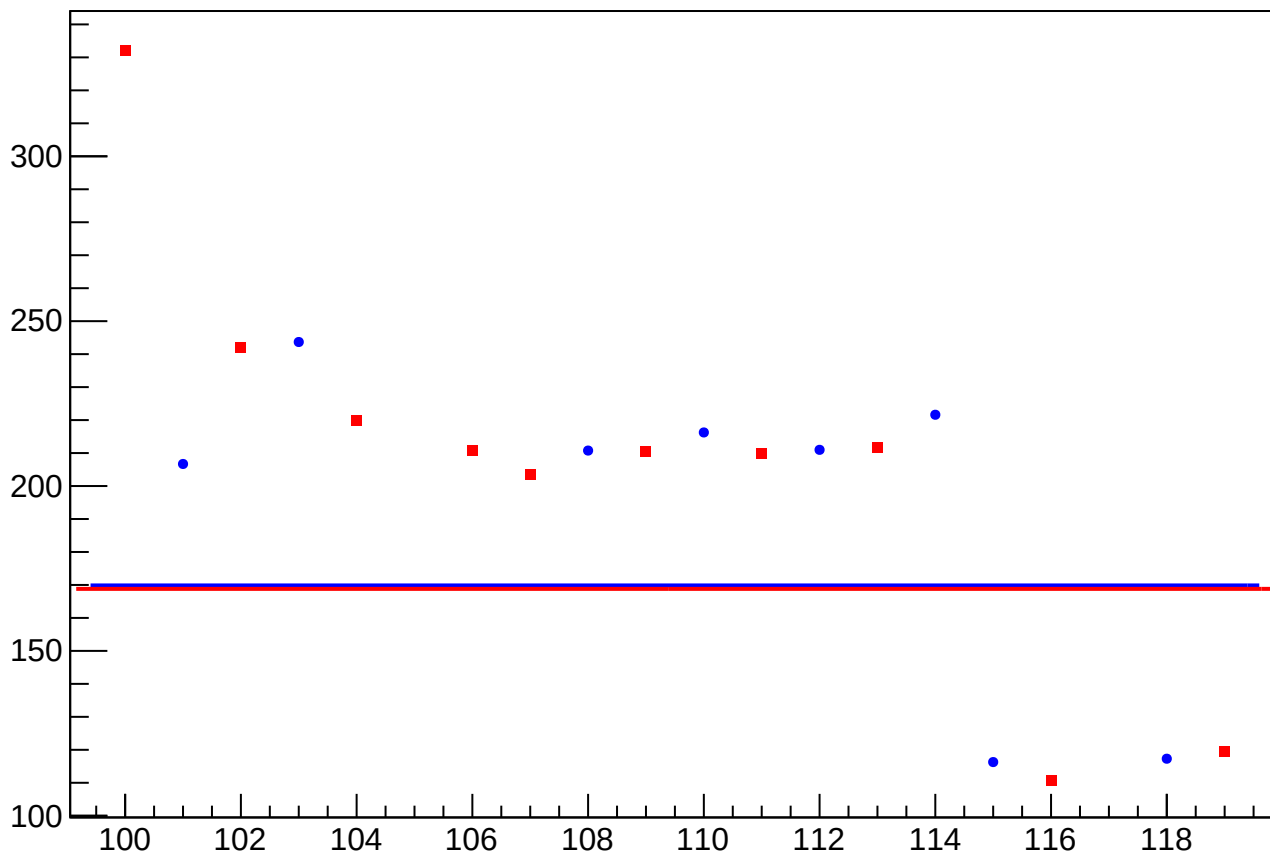
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -42.528 $\pm$ 65.433  $\chi^2$ /NDF: 20.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 169.852+/-0.069  $\chi^2/\text{NDF}$ : 541022.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 168.810+/-0.062  $\chi^2/\text{NDF}$ : 700558.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

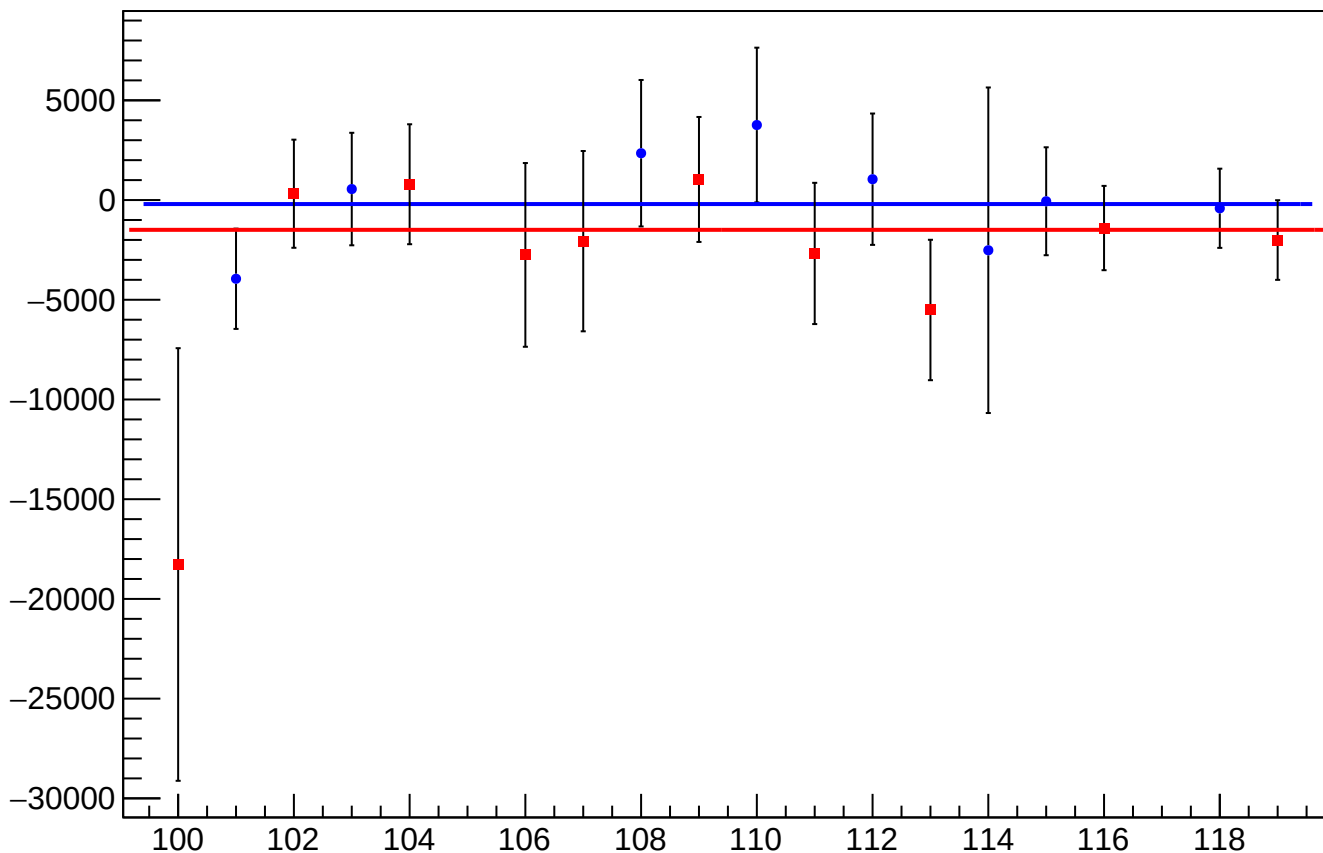
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 169.278+/-0.046  $\chi^2/\text{NDF}$ : 1241706.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_26\_avg\_cor\_correction\_mean vs Slug



Right In: -201.158+/-1041.439  $\chi^2/\text{NDF}$ : 4.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1493.669+/-958.550  $\chi^2/\text{NDF}$ : 5.6/9

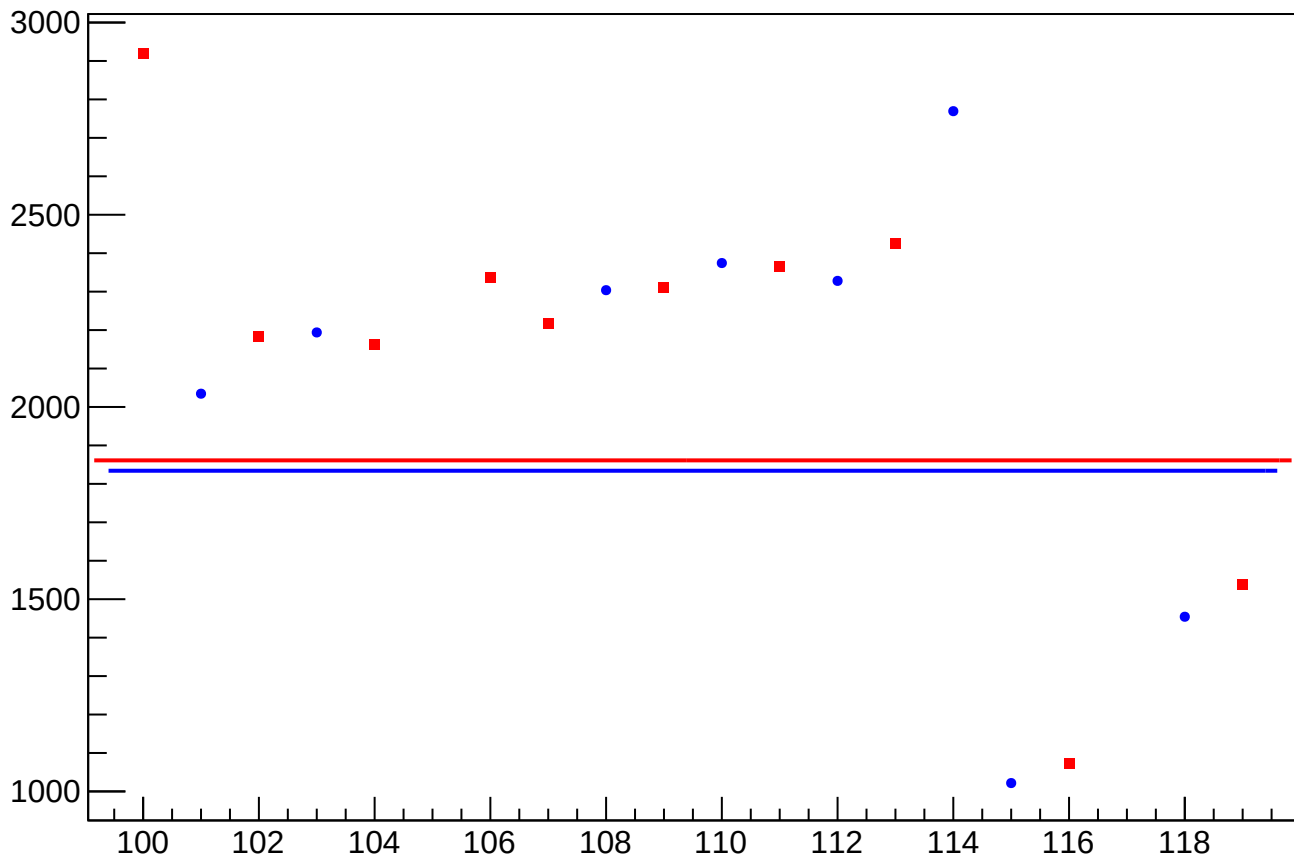
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -900.889+/-705.283  $\chi^2/\text{NDF}$ : 10.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_cor\_correction\_rms vs Slug



Right In: 1834.125+/-0.736  $\chi^2/\text{NDF}$ : 441427.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1861.105+/-0.678  $\chi^2/\text{NDF}$ : 565967.0/9

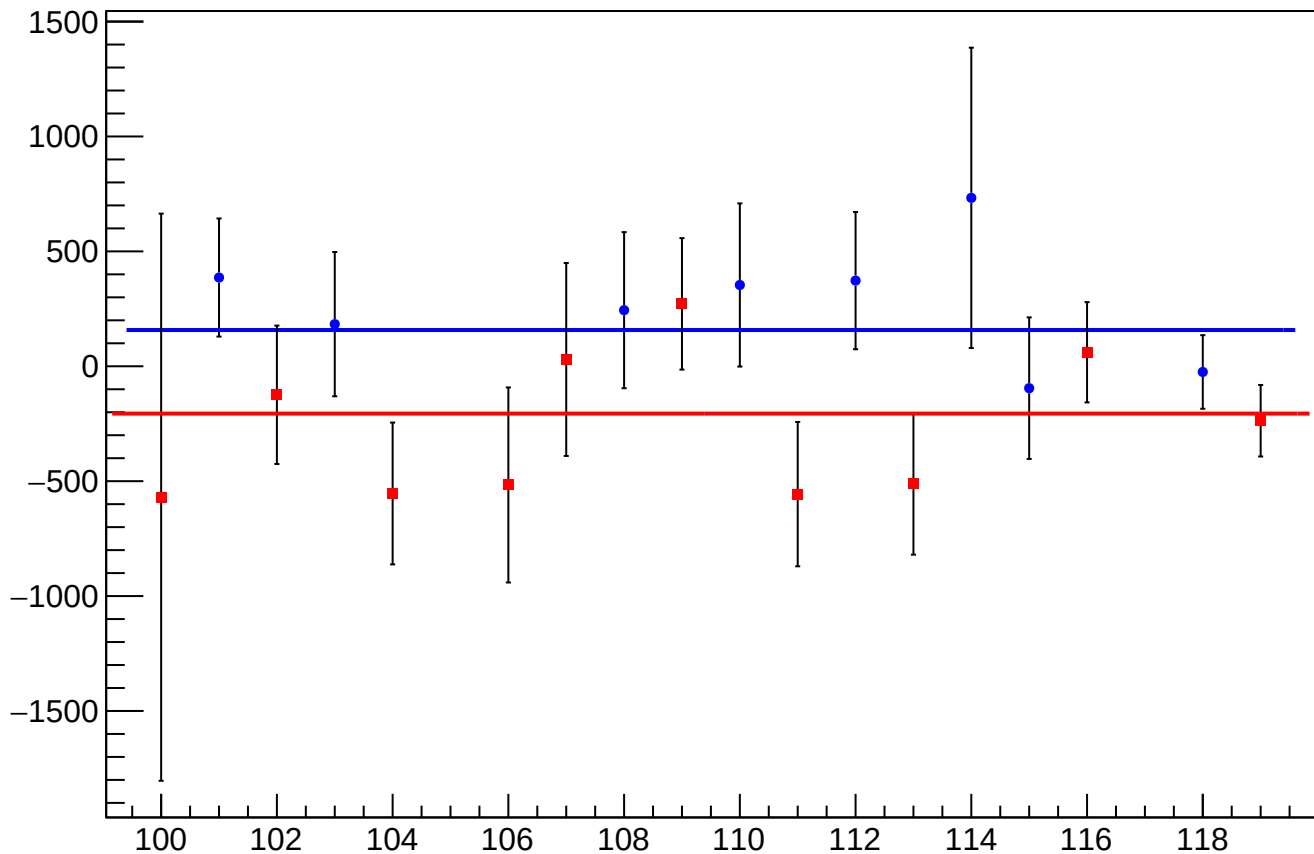
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1848.731+/-0.499  $\chi^2/\text{NDF}$ : 1008121.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 157.778 $\pm$ 97.614  $\chi^2$ /NDF: 4.4/7

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -205.970 $\pm$ -88.176  $\chi^2$ /NDF: 8.8/9

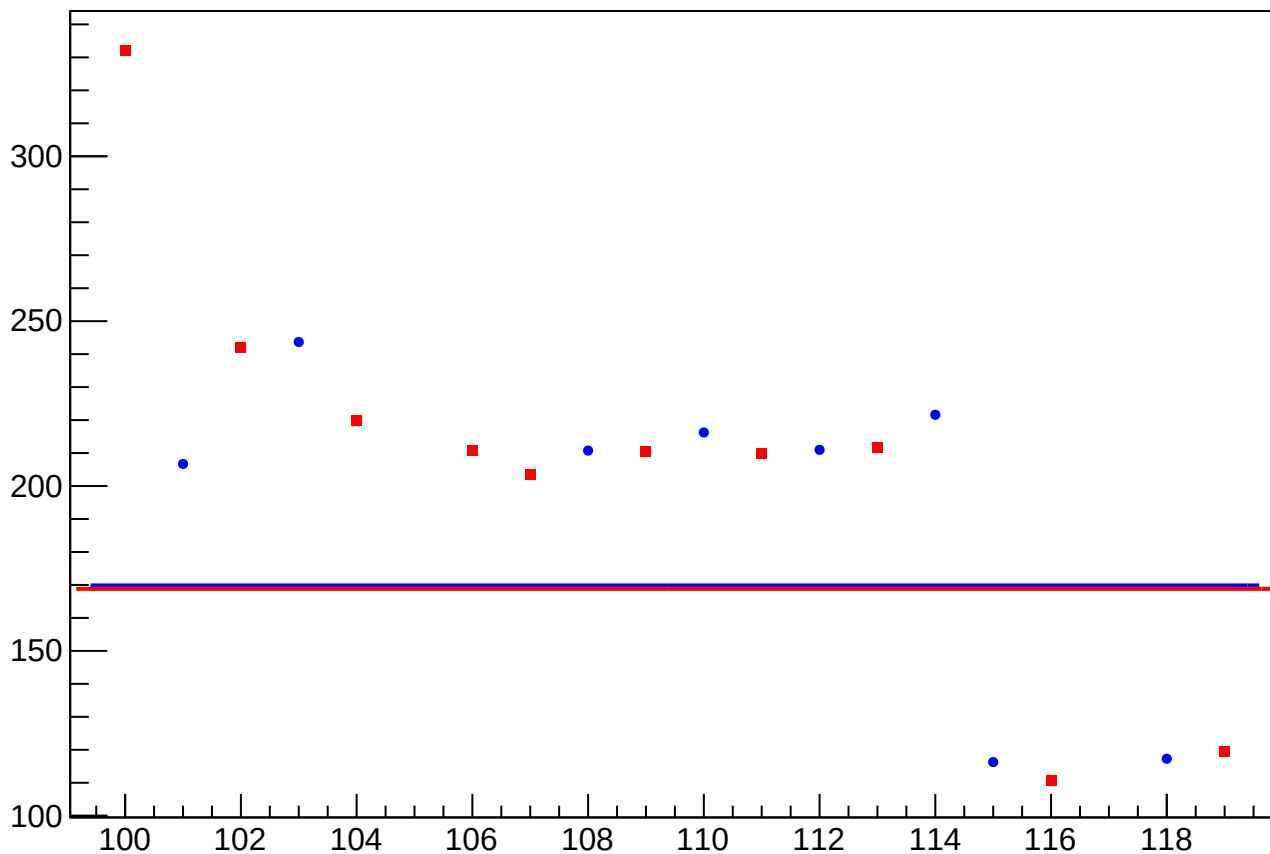
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -42.528 $\pm$ -65.433  $\chi^2$ /NDF: 20.9/17

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 169.852 $\pm$ 0.069  $\chi^2$ /NDF: 541022.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 168.810 $\pm$ 0.062  $\chi^2$ /NDF: 700558.6/9

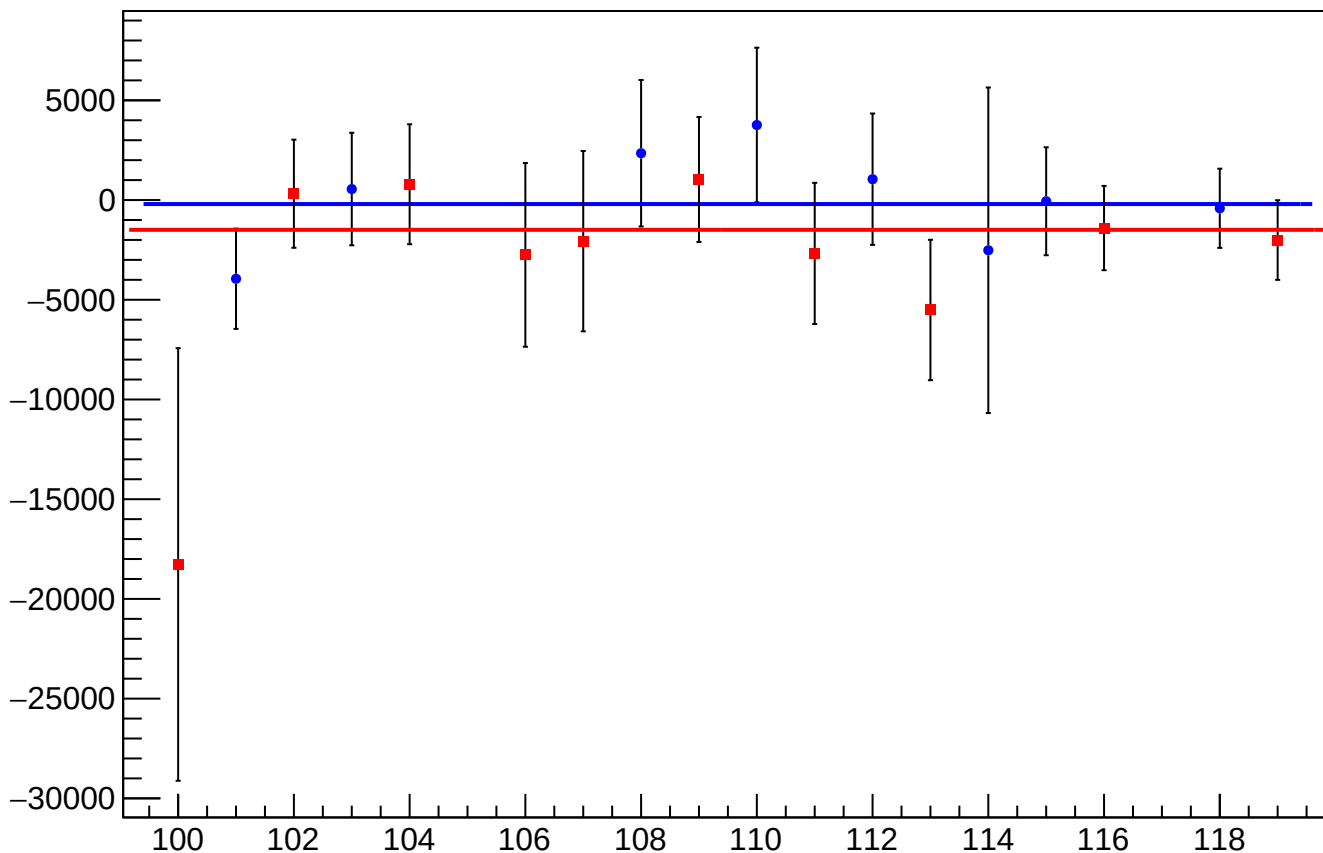
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 169.278 $\pm$ 0.046  $\chi^2$ /NDF: 1241706.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -201.158+/-1041.439  $\chi^2/\text{NDF}$ : 4.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1493.669+/-958.550  $\chi^2/\text{NDF}$ : 5.6/9

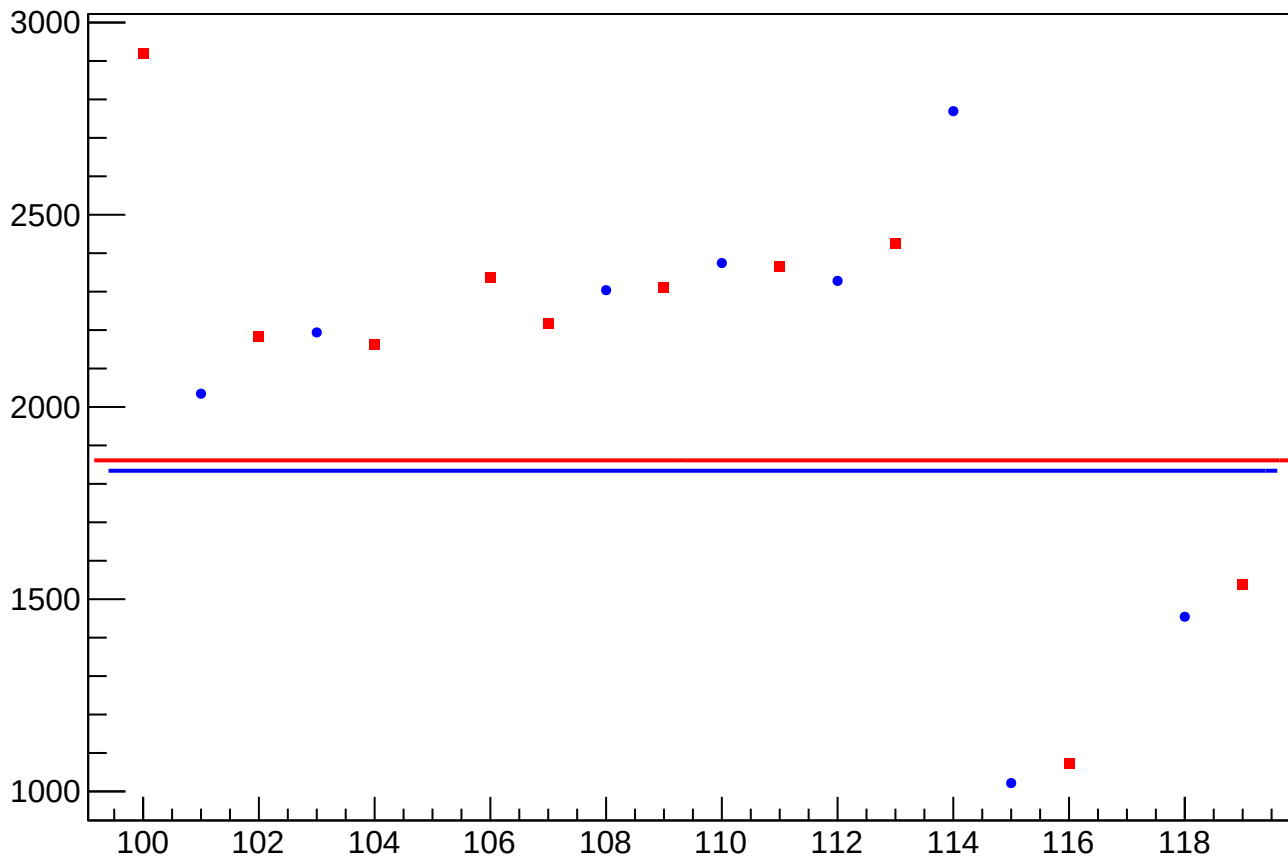
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -900.889+/-705.283  $\chi^2/\text{NDF}$ : 10.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1834.125+/-0.736  $\chi^2/\text{NDF}$ : 441427.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1861.105+/-0.678  $\chi^2/\text{NDF}$ : 565967.0/9

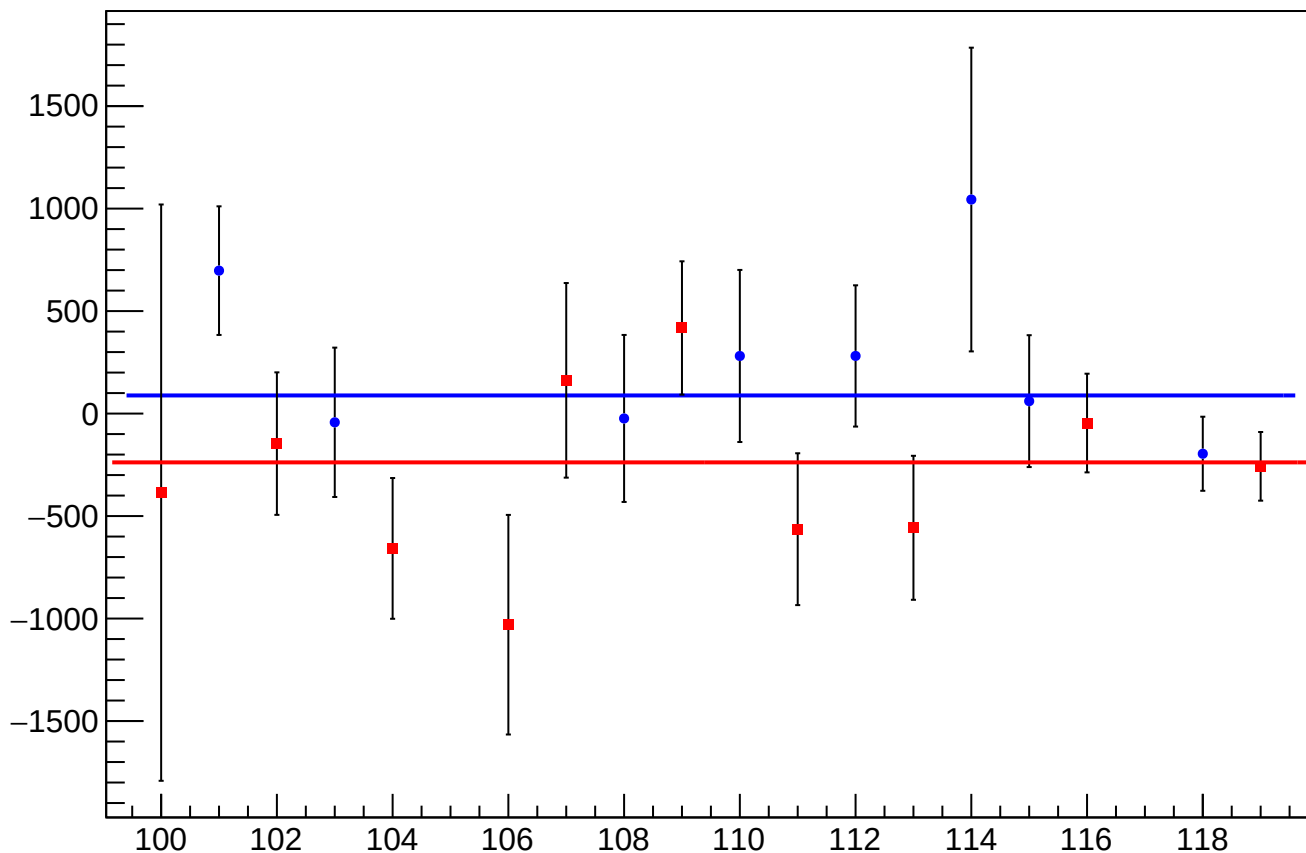
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1848.731+/-0.499  $\chi^2/\text{NDF}$ : 1008121.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 88.442+/-111.857  $\chi^2/\text{NDF}$ : 8.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -238.114+/-98.562  $\chi^2/\text{NDF}$ : 10.8/9

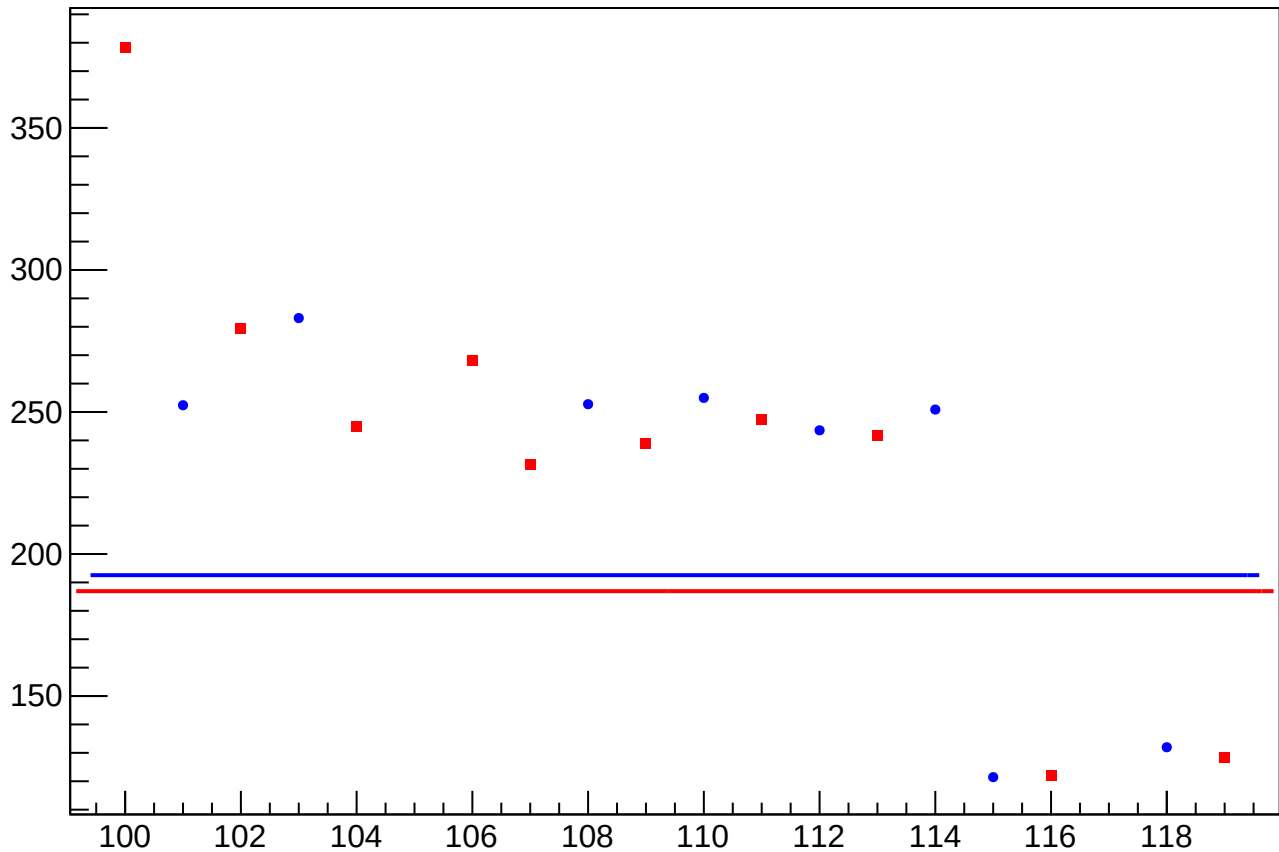
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -95.387+/-73.950  $\chi^2/\text{NDF}$ : 24.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 192.551 $\pm$ 0.079  $\chi^2$ /NDF: 662770.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 186.921 $\pm$ 0.070  $\chi^2$ /NDF: 842582.7/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

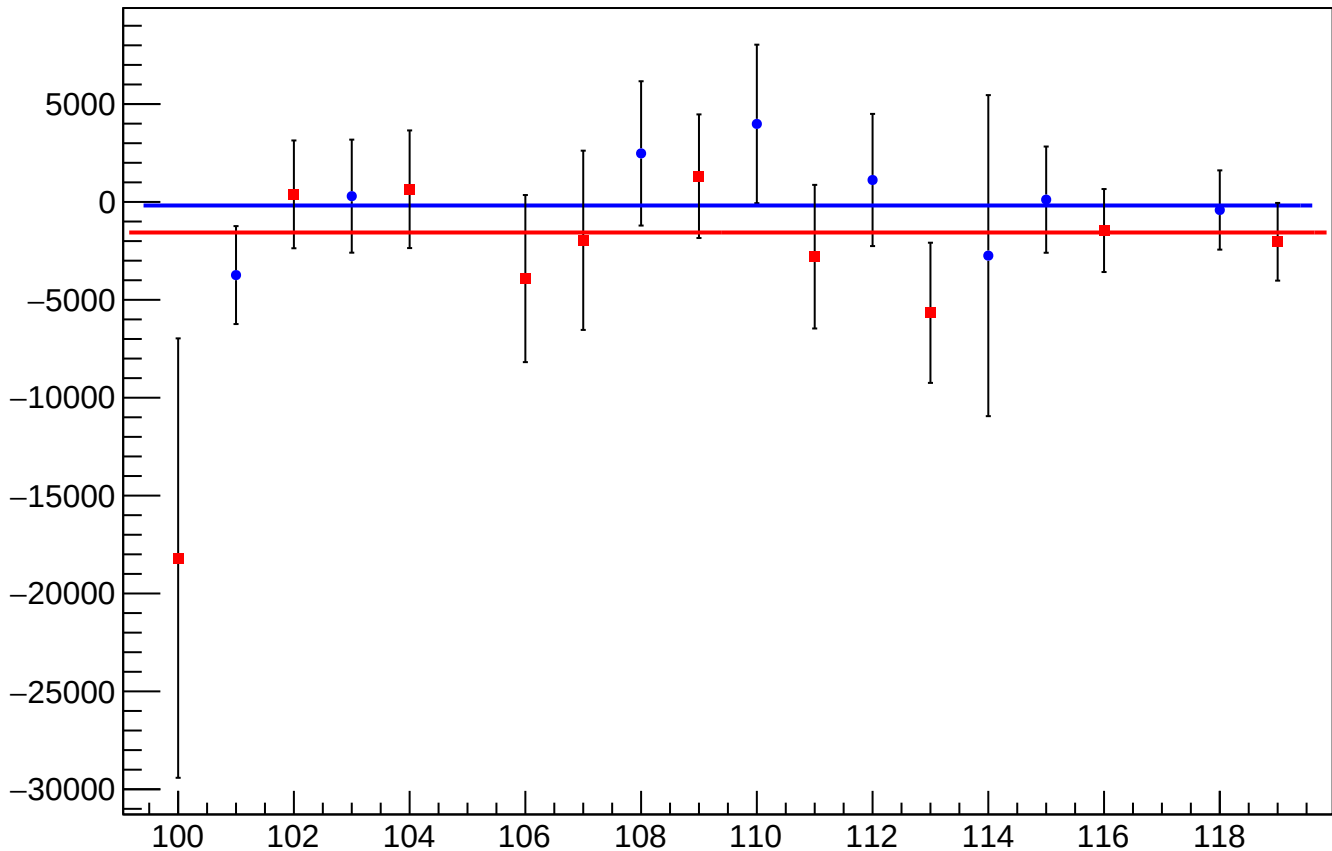
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 189.382 $\pm$ 0.052  $\chi^2$ /NDF: 1508205.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_26\_avg\_dit\_correction\_mean vs Slug



Right In: -181.150 $\pm$ 1055.912  $\chi^2$ /NDF: 3.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1560.707 $\pm$ 961.194  $\chi^2$ /NDF: 5.9/9

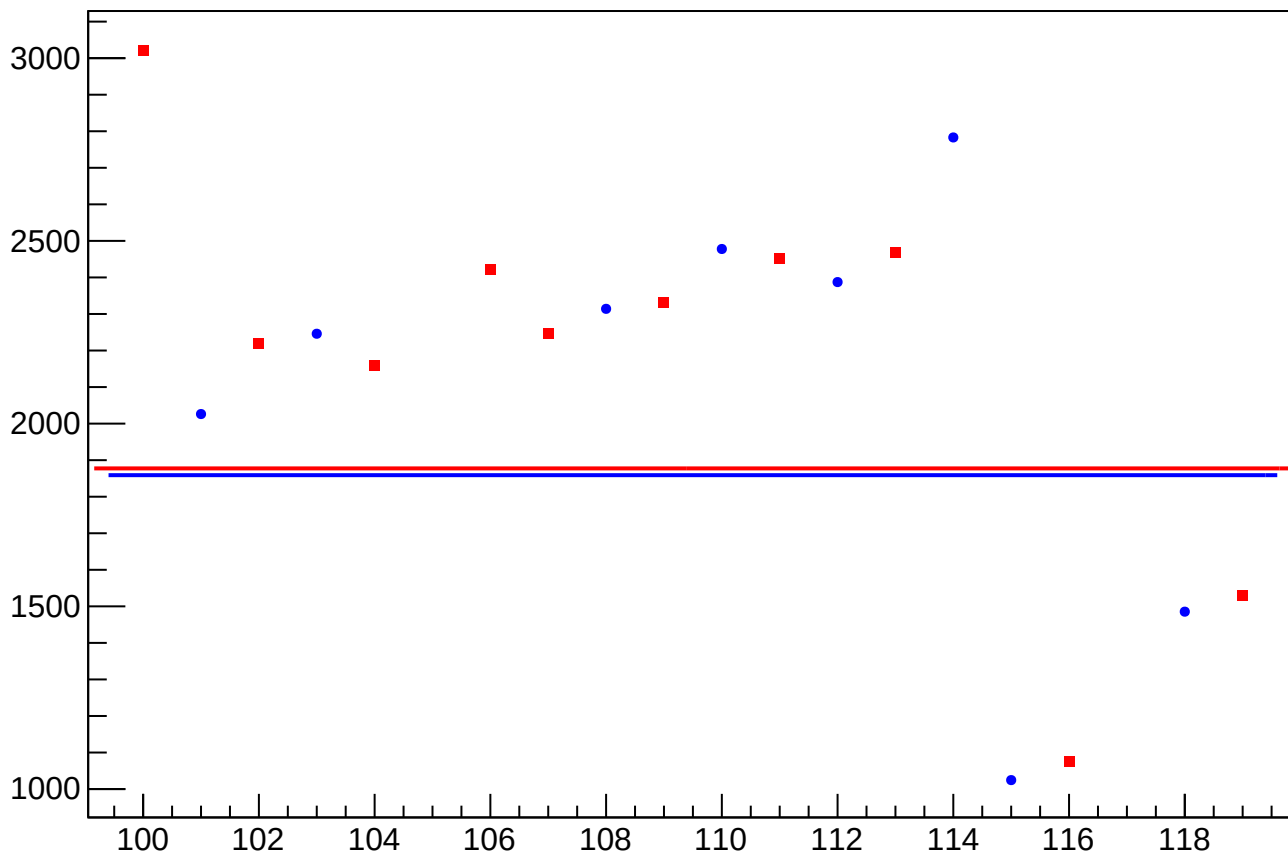
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -935.566 $\pm$ 710.799  $\chi^2$ /NDF: 10.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_avg\_dit\_correction\_rms vs Slug



Right In: 1858.951+/-0.747  $\chi^2/\text{NDF}$ : 453786.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1877.455+/-0.680  $\chi^2/\text{NDF}$ : 607185.9/9

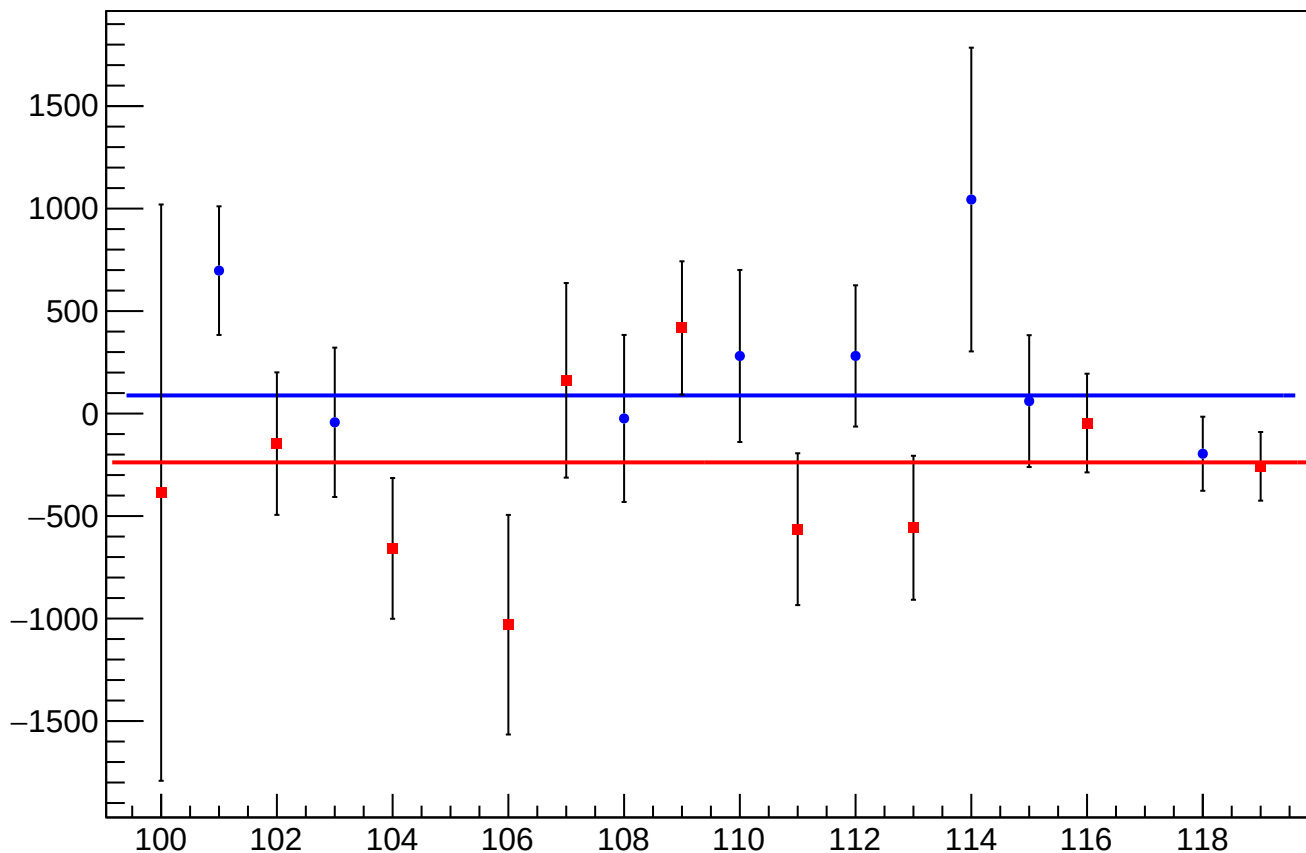
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1869.070+/-0.503  $\chi^2/\text{NDF}$ : 1061308.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 88.441+/-111.857  $\chi^2/\text{NDF}$ : 8.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -238.112+/-98.562  $\chi^2/\text{NDF}$ : 10.8/9

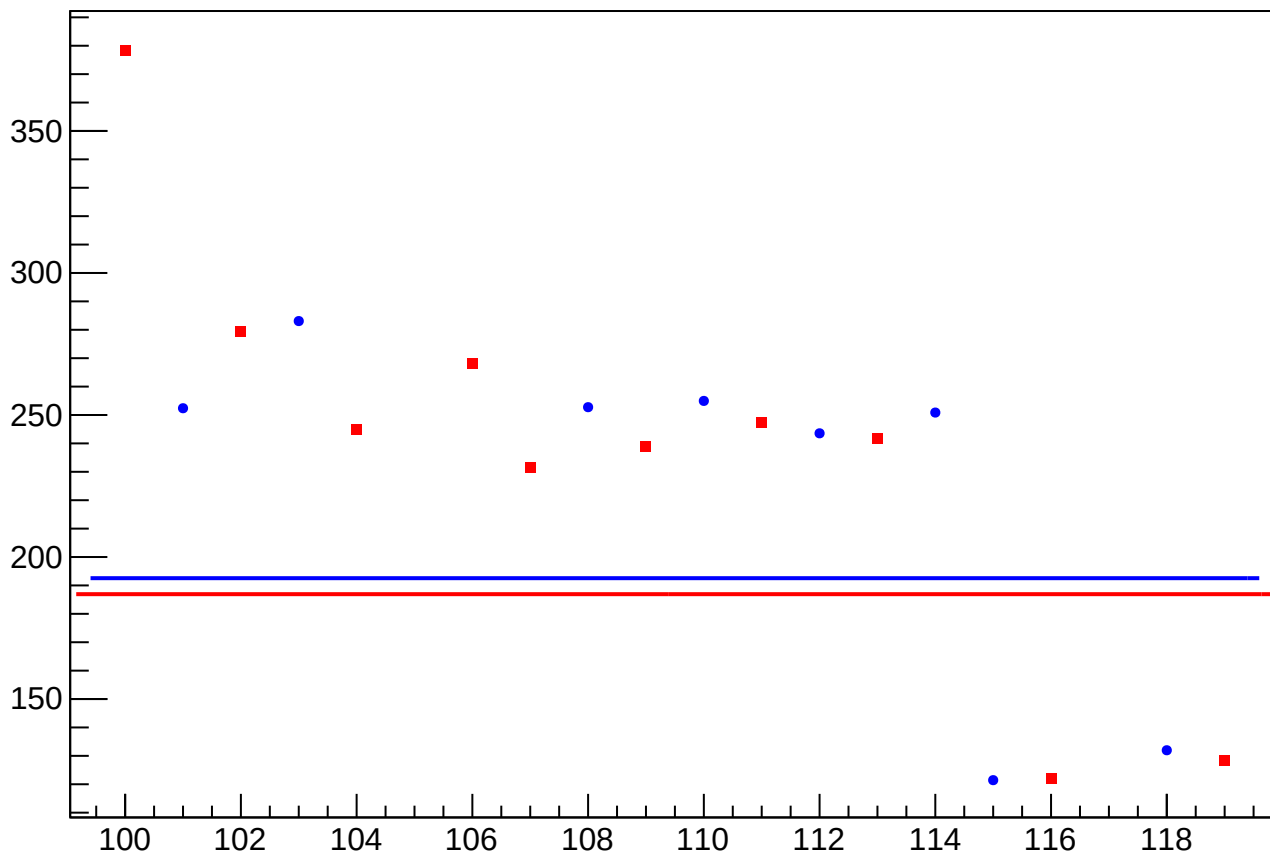
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -95.386+/-73.950  $\chi^2/\text{NDF}$ : 24.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_26\_avg\_rms vs Slug



Right In:  $192.550 \pm 0.079$   $\chi^2/\text{NDF}$ : 662756.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $186.921 \pm 0.070$   $\chi^2/\text{NDF}$ : 842554.1/9

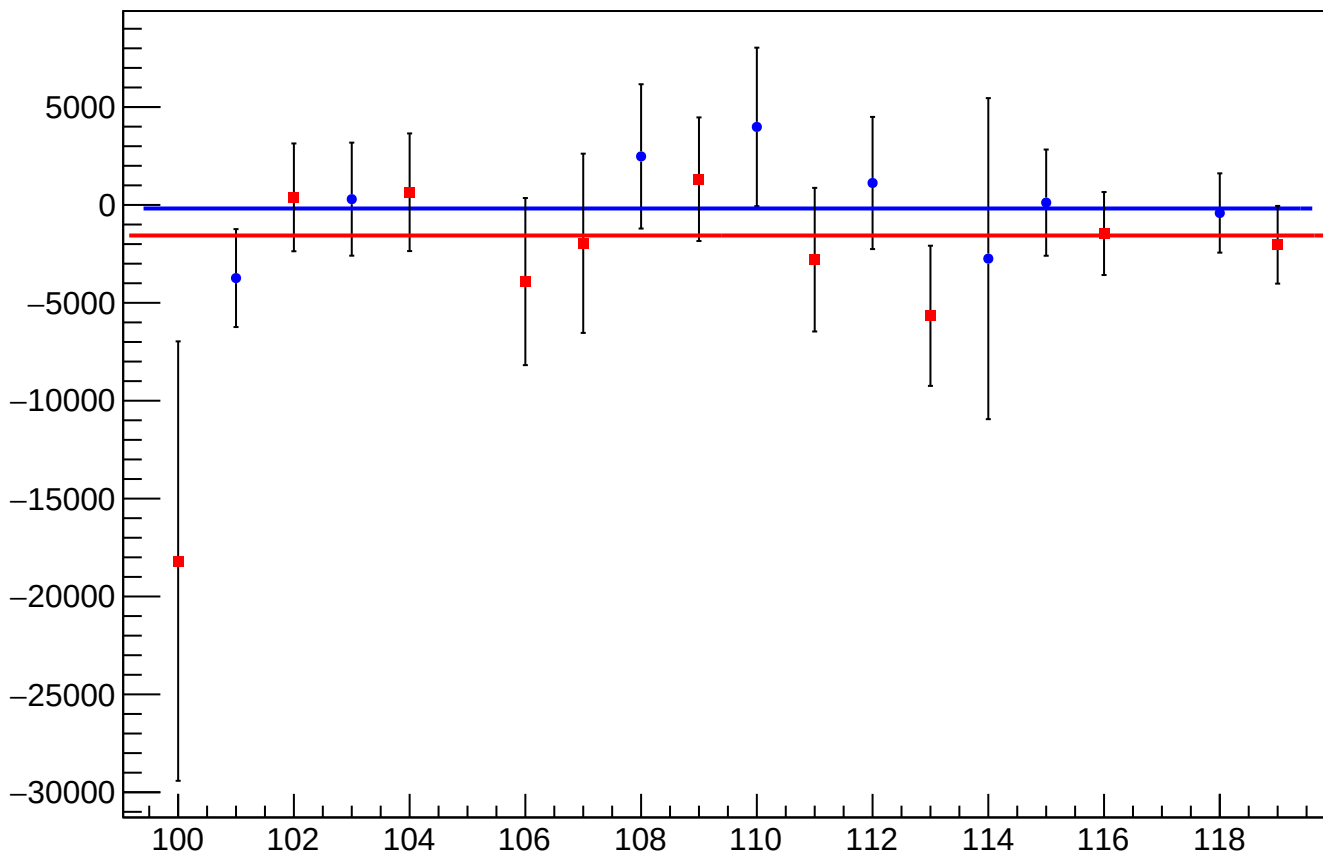
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $189.381 \pm 0.052$   $\chi^2/\text{NDF}$ : 1508162.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -181.148+/-1055.909  $\chi^2/\text{NDF}$ : 3.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1560.707+/-961.192  $\chi^2/\text{NDF}$ : 5.9/9

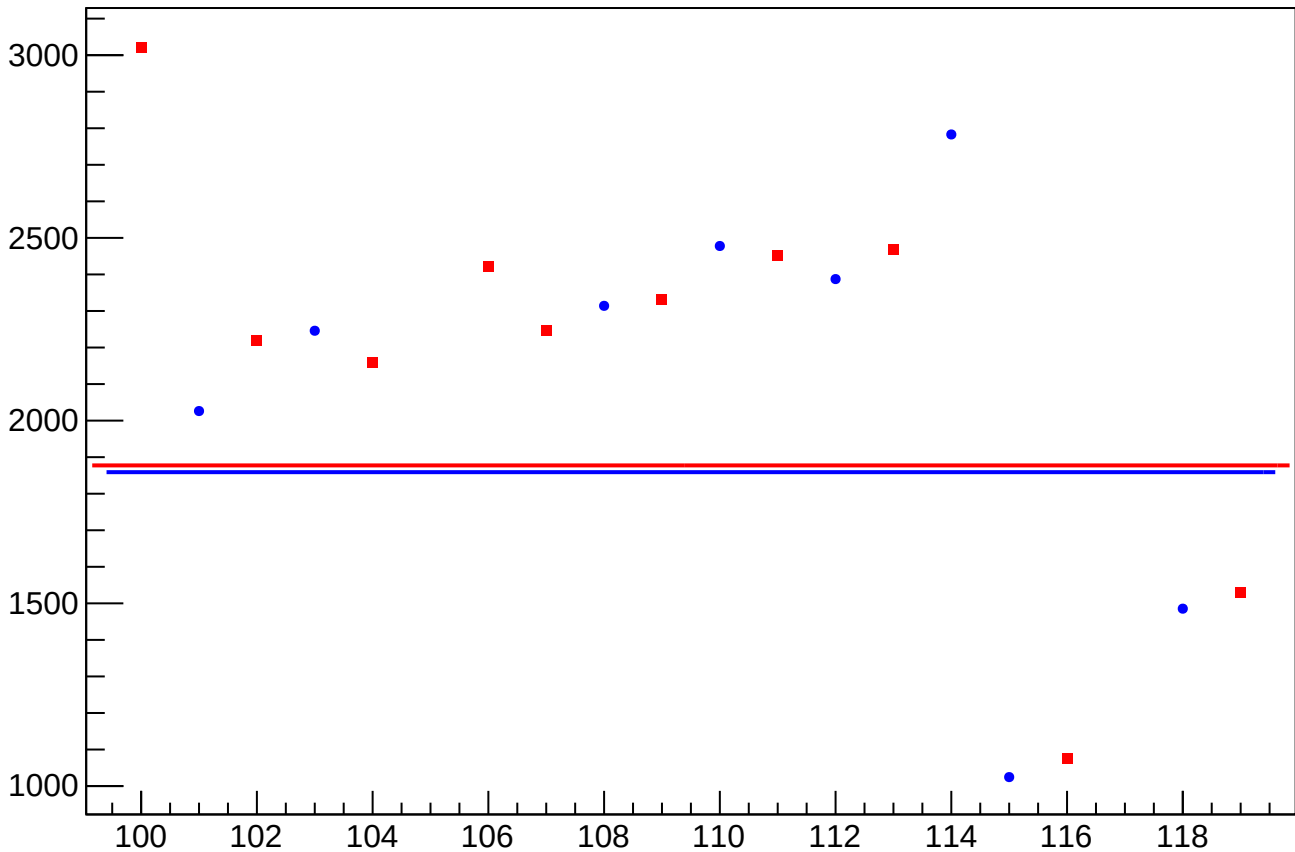
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -935.565+/-710.797  $\chi^2/\text{NDF}$ : 10.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1858.948 $\pm$ 0.747  $\chi^2$ /NDF: 453777.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1877.452 $\pm$ 0.680  $\chi^2$ /NDF: 607176.9/9

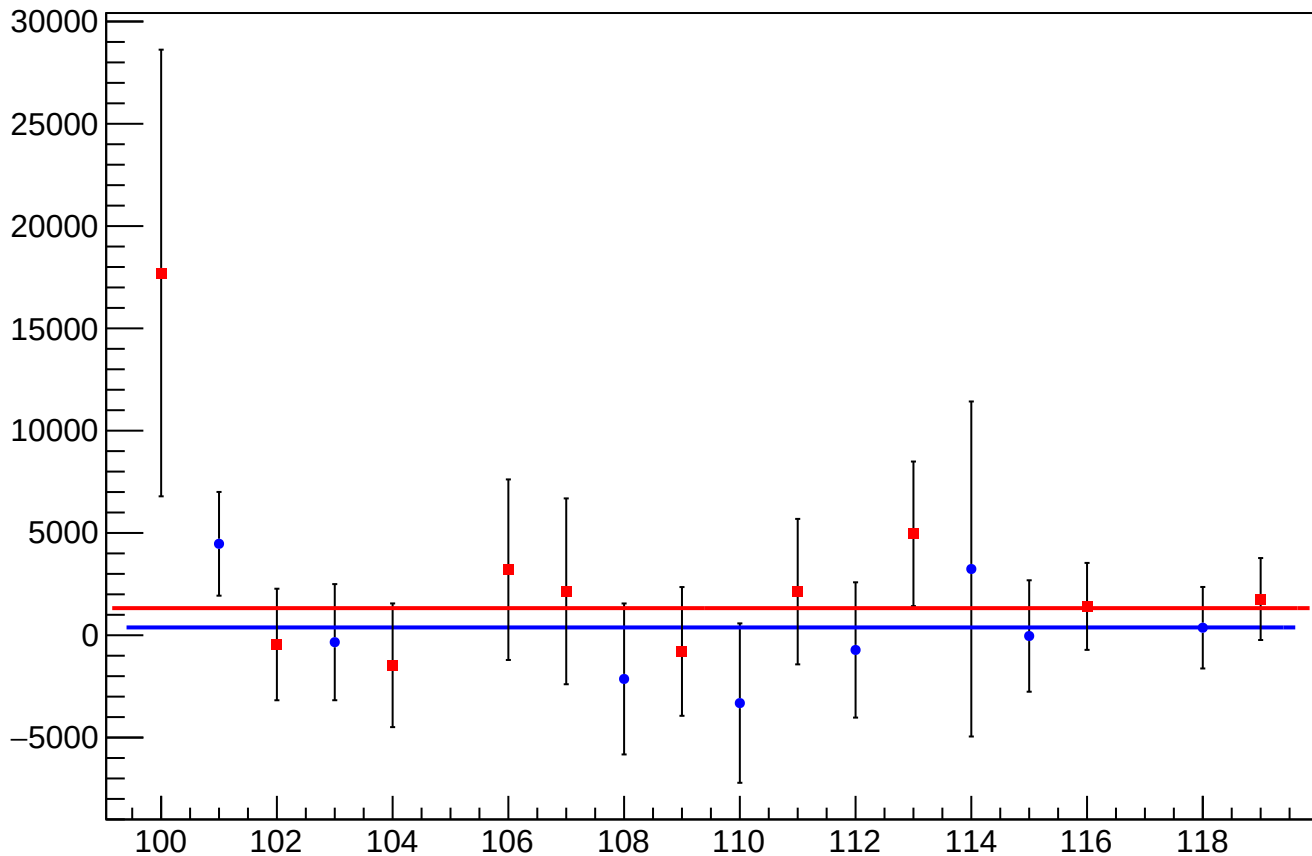
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1869.067 $\pm$ 0.503  $\chi^2$ /NDF: 1061290.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_avg\_mean vs Slug



Right In: 382.133+/-1047.030  $\chi^2/\text{NDF}$ : 4.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1325.444+/-960.901  $\chi^2/\text{NDF}$ : 5.4/9

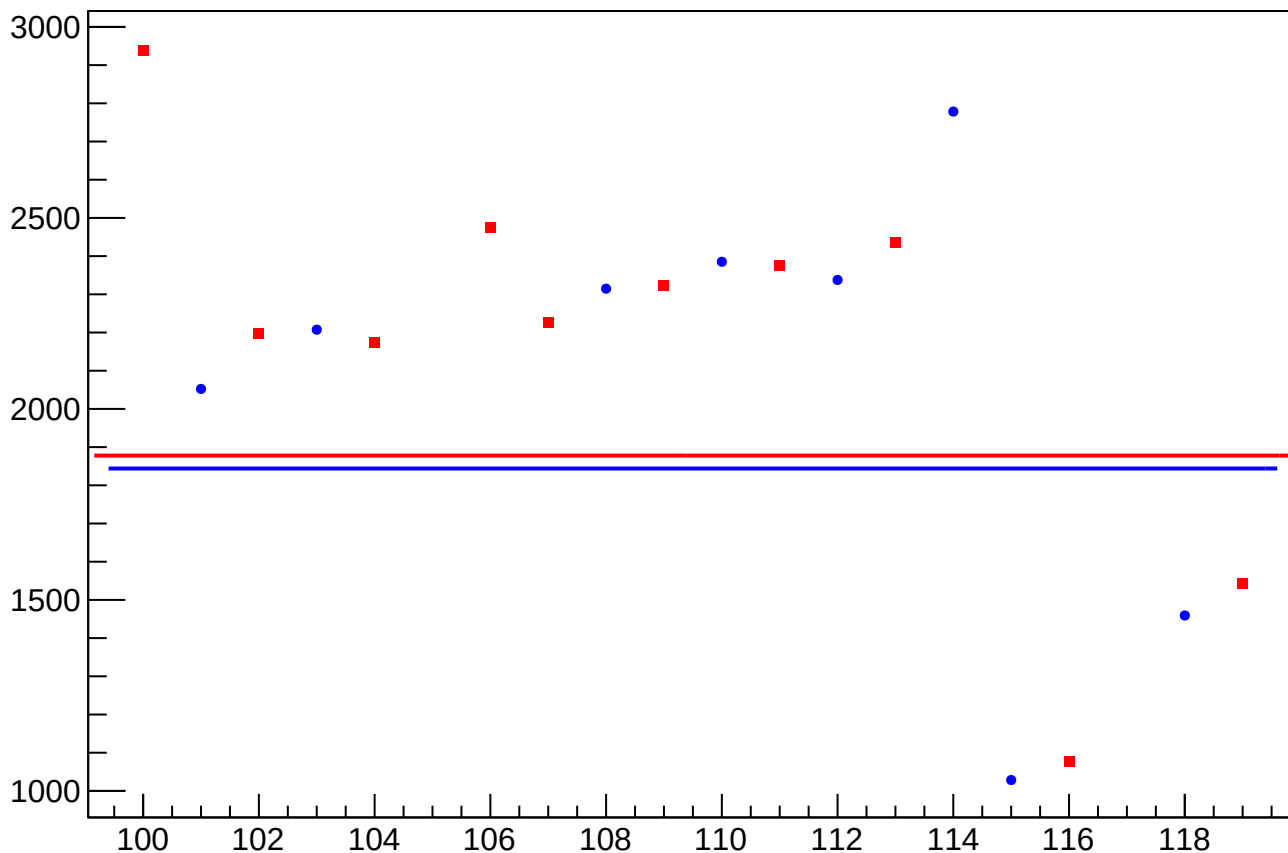
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 894.178+/-707.954  $\chi^2/\text{NDF}$ : 10.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_rms vs Slug



Right In: 1844.003+/-0.740  $\chi^2/\text{NDF}$ : 441992.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1877.855+/-0.679  $\chi^2/\text{NDF}$ : 581879.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

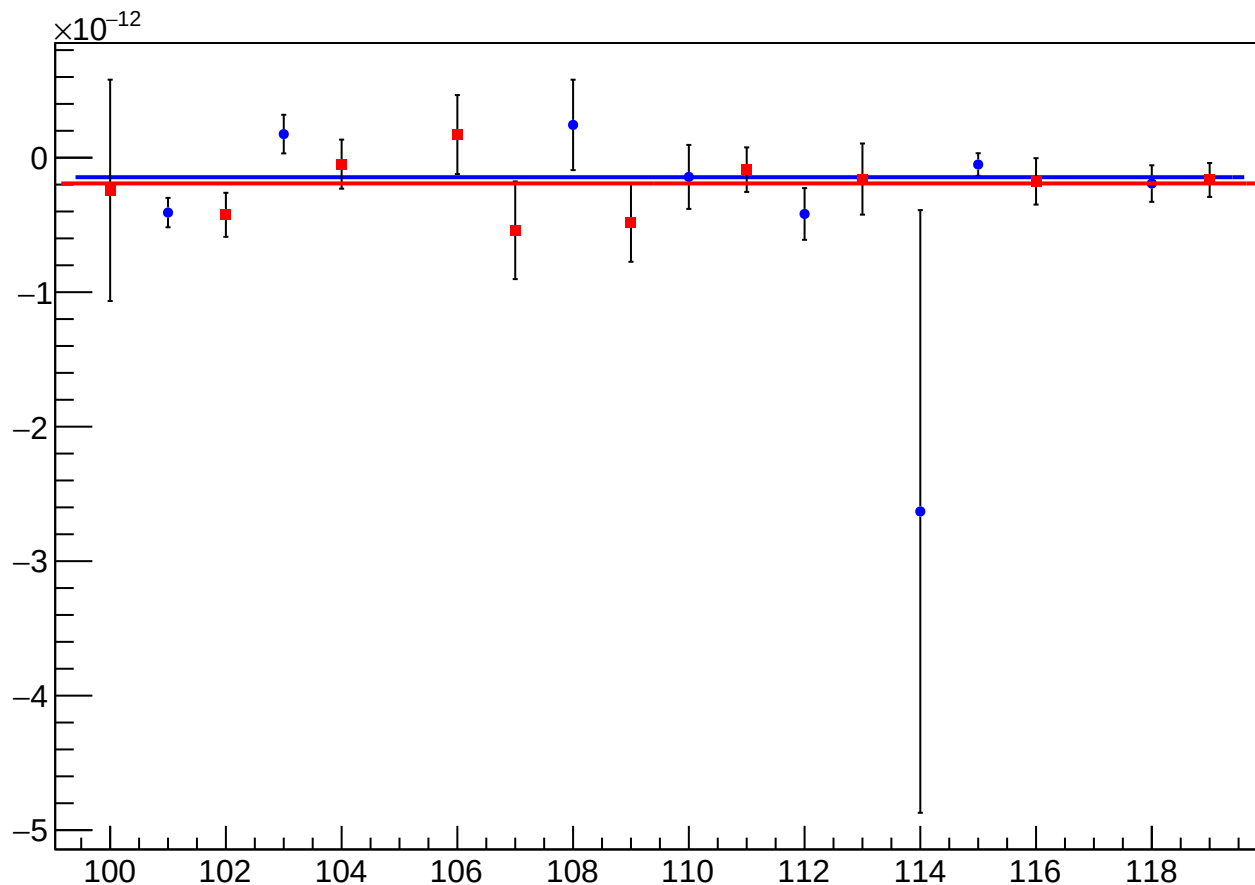
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1862.378+/-0.501  $\chi^2/\text{NDF}$ : 1025007.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_26\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 16.8/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 6.6/9

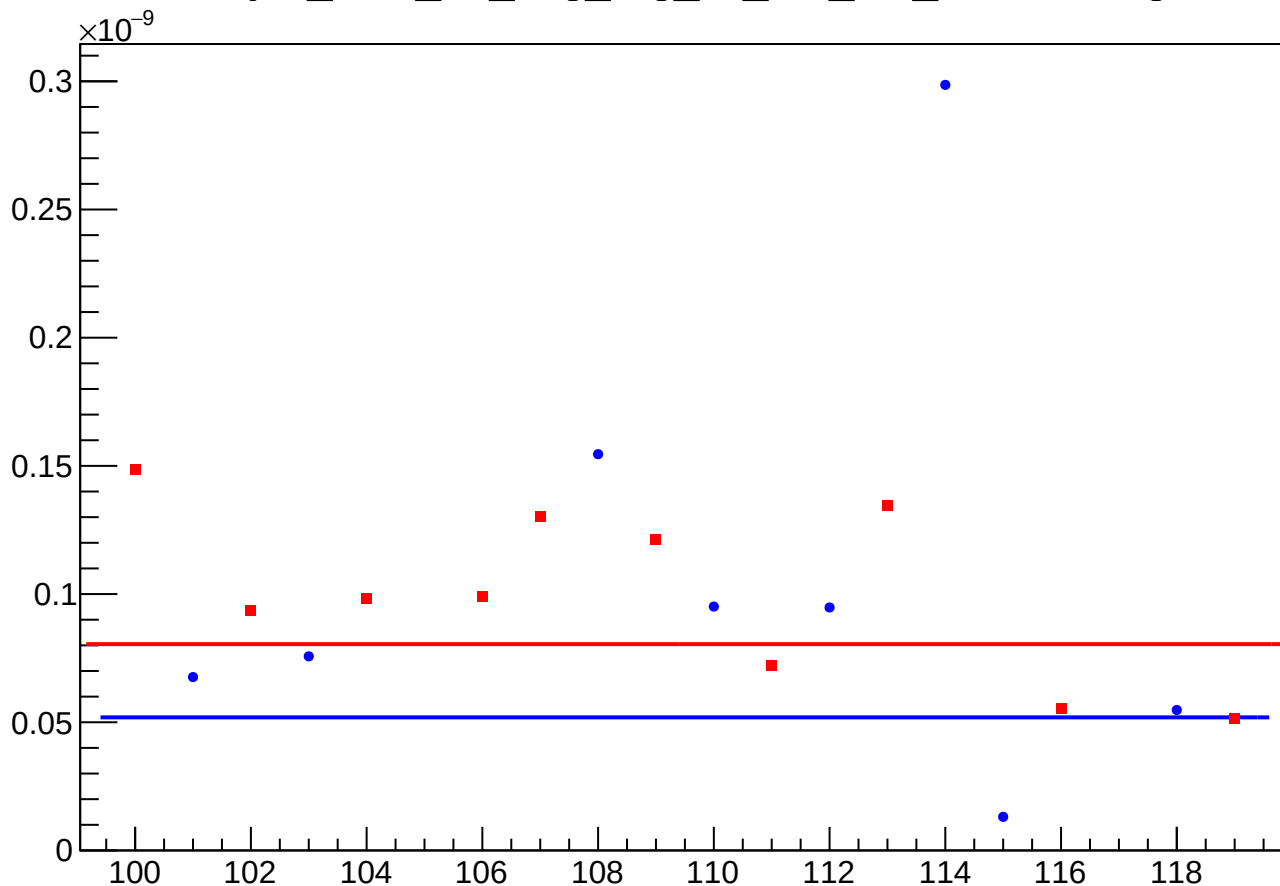
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 23.6/17

- 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  $\chi^2/\text{NDF}$ : 900723.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 366416.5/9

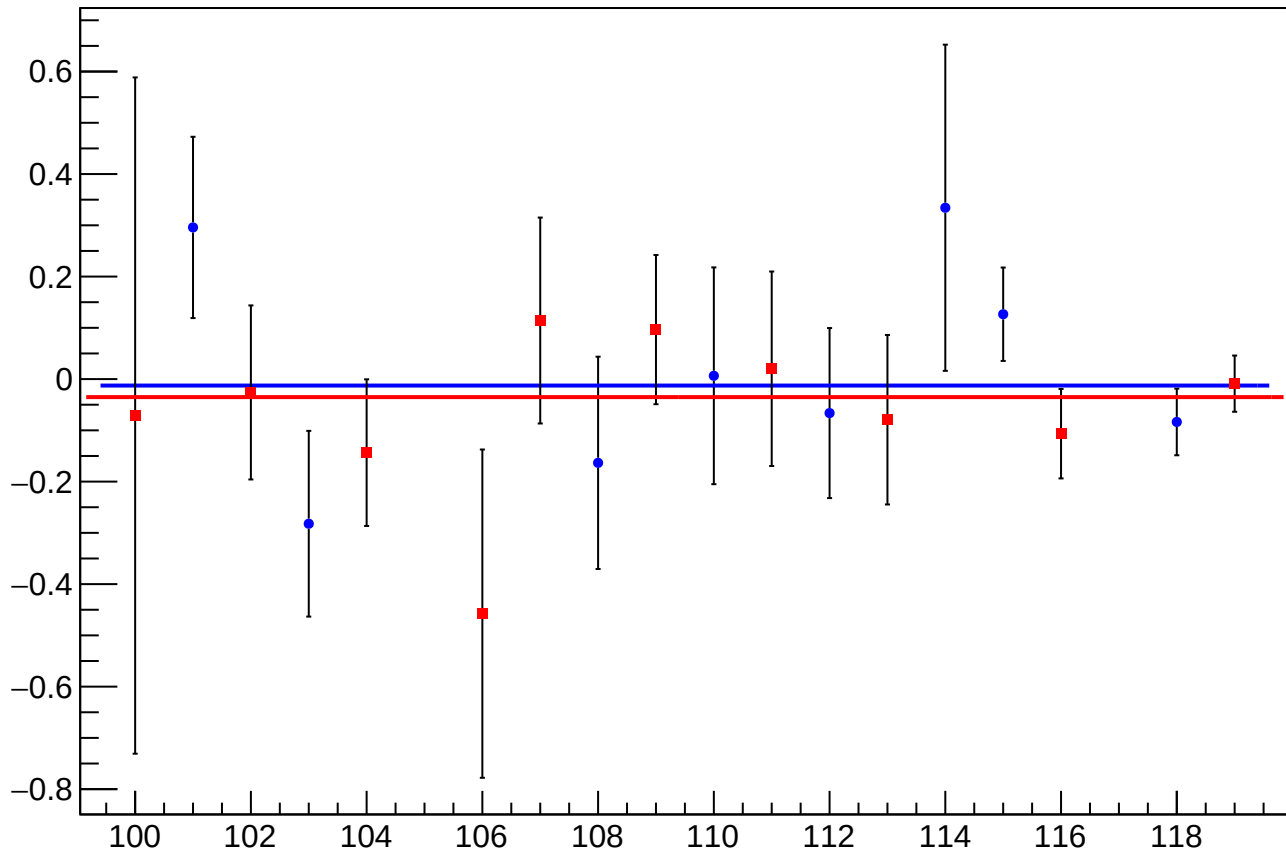
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1511988.1/17

- 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: -0.013+/-0.044  $\chi^2/\text{NDF}$ : 10.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.035+/-0.038  $\chi^2/\text{NDF}$ : 4.7/9

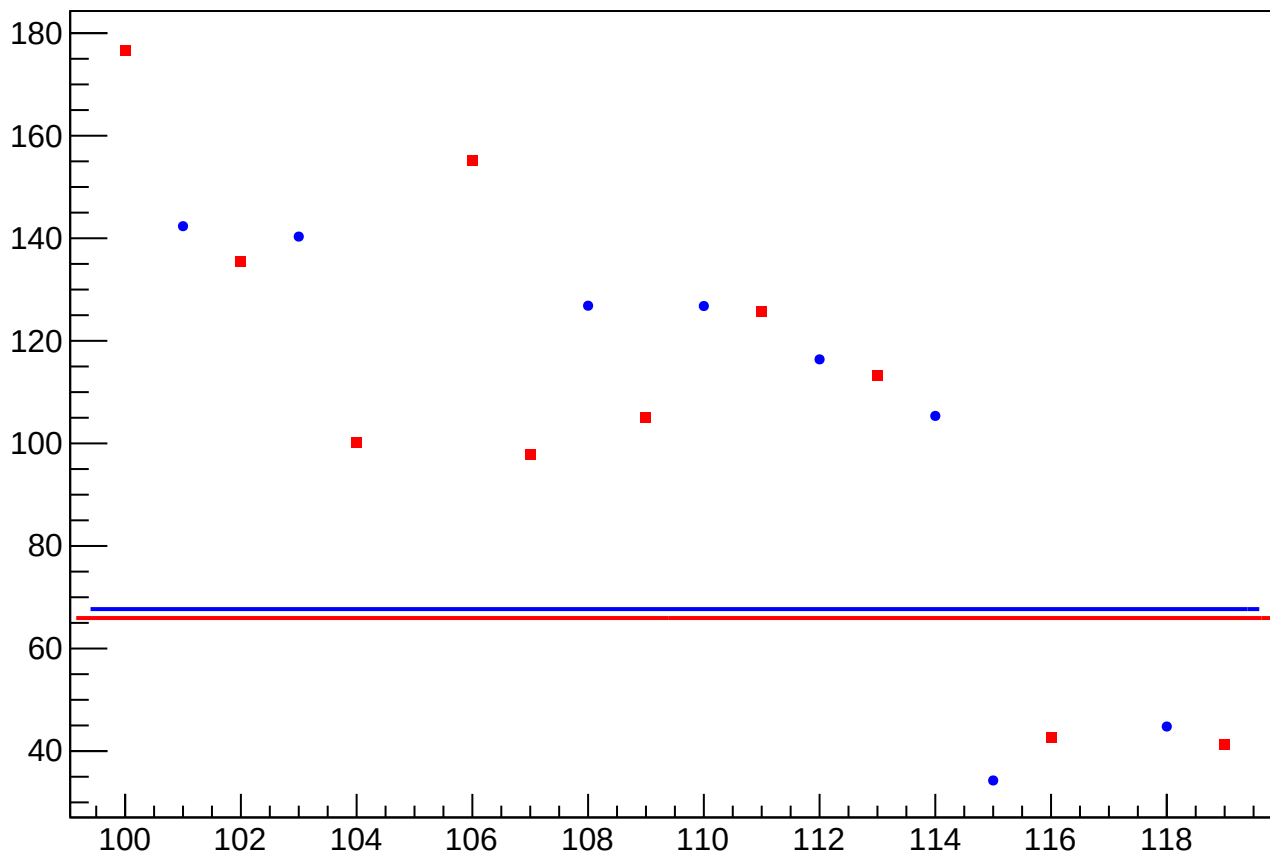
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.026+/-0.029  $\chi^2/\text{NDF}$ : 15.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 67.691+/-0.031  $\chi^2/\text{NDF}$ : 1715098.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 65.945+/-0.027  $\chi^2/\text{NDF}$ : 1764176.4/9

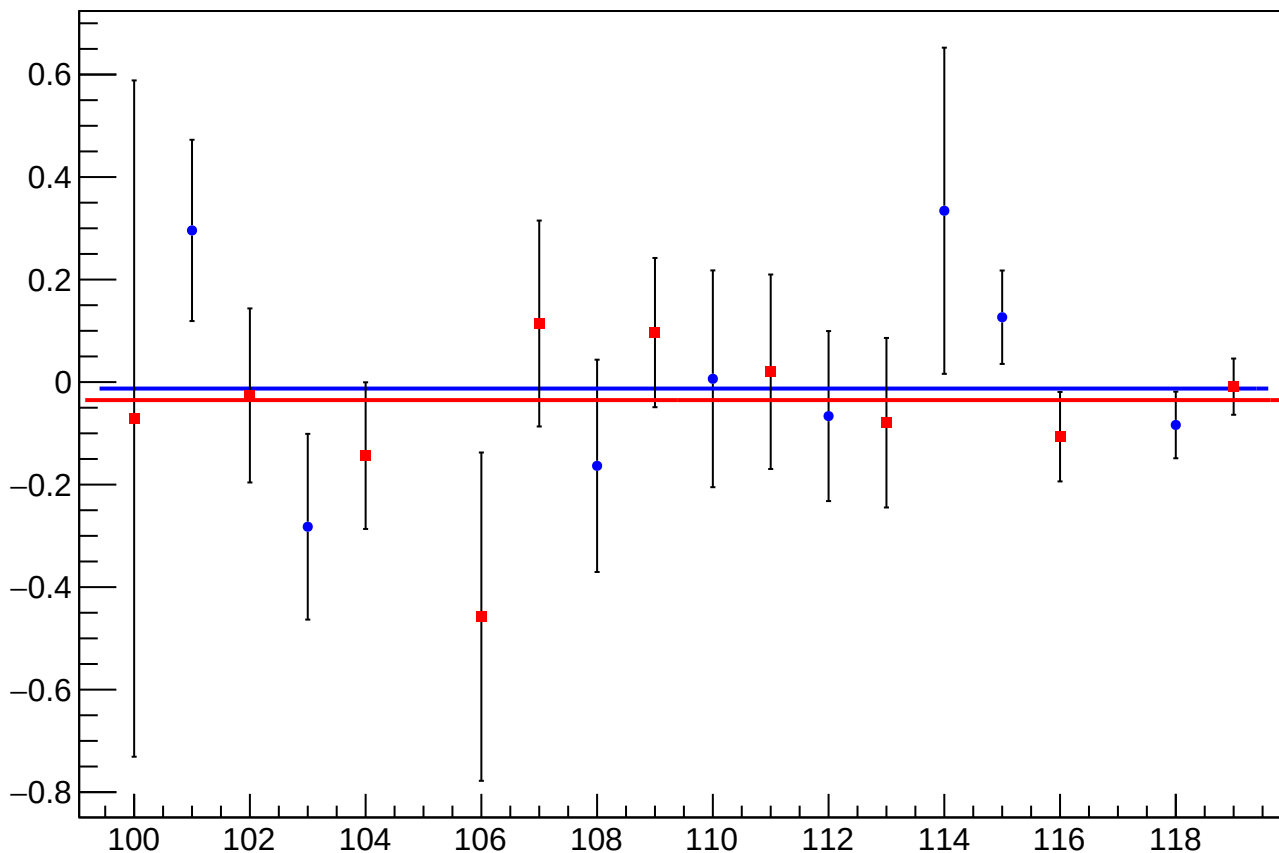
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.685+/-0.020  $\chi^2/\text{NDF}$ : 3481072.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.013+/-0.044  $\chi^2/\text{NDF}$ : 10.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.035+/-0.038  $\chi^2/\text{NDF}$ : 4.7/9

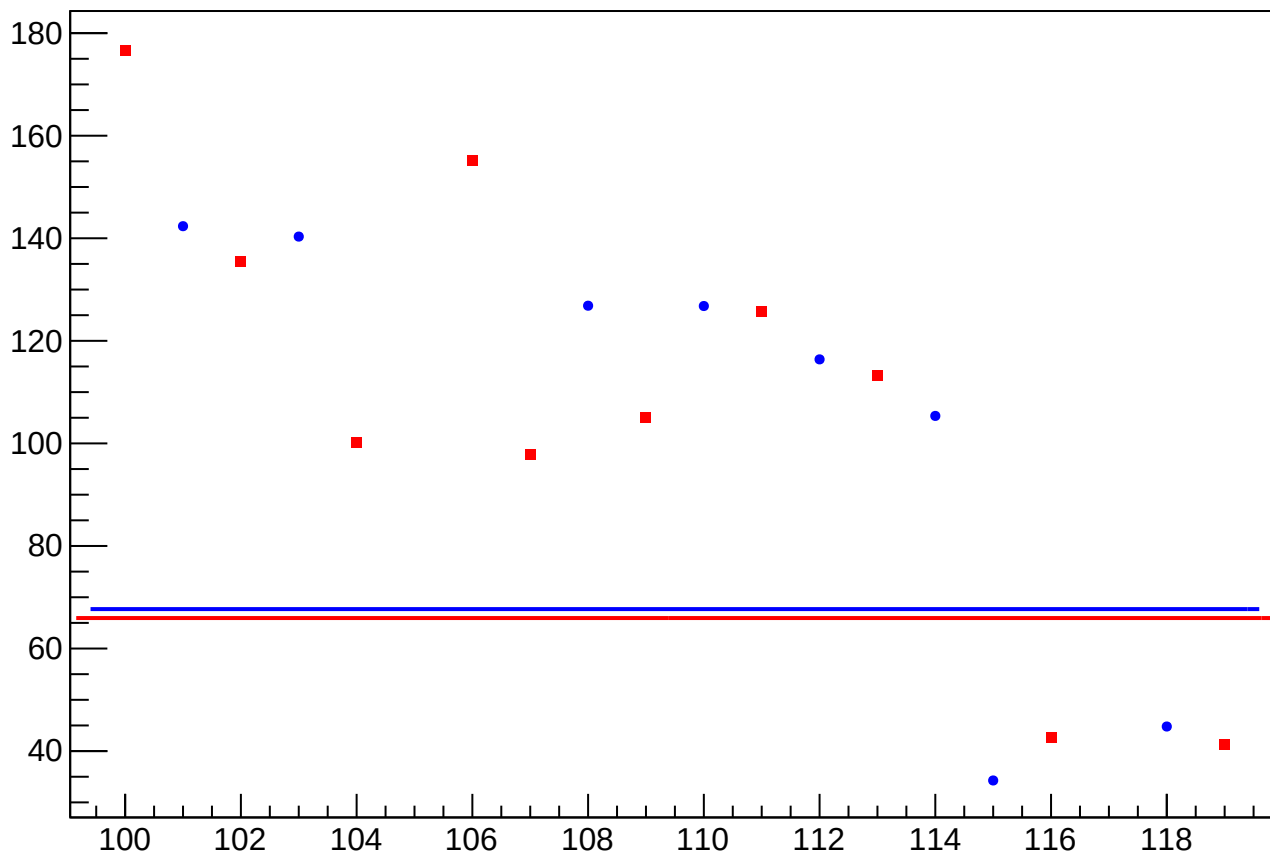
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.026+/-0.029  $\chi^2/\text{NDF}$ : 15.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 67.691+/-0.031  $\chi^2/\text{NDF}$ : 1715098.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 65.945+/-0.027  $\chi^2/\text{NDF}$ : 1764176.4/9

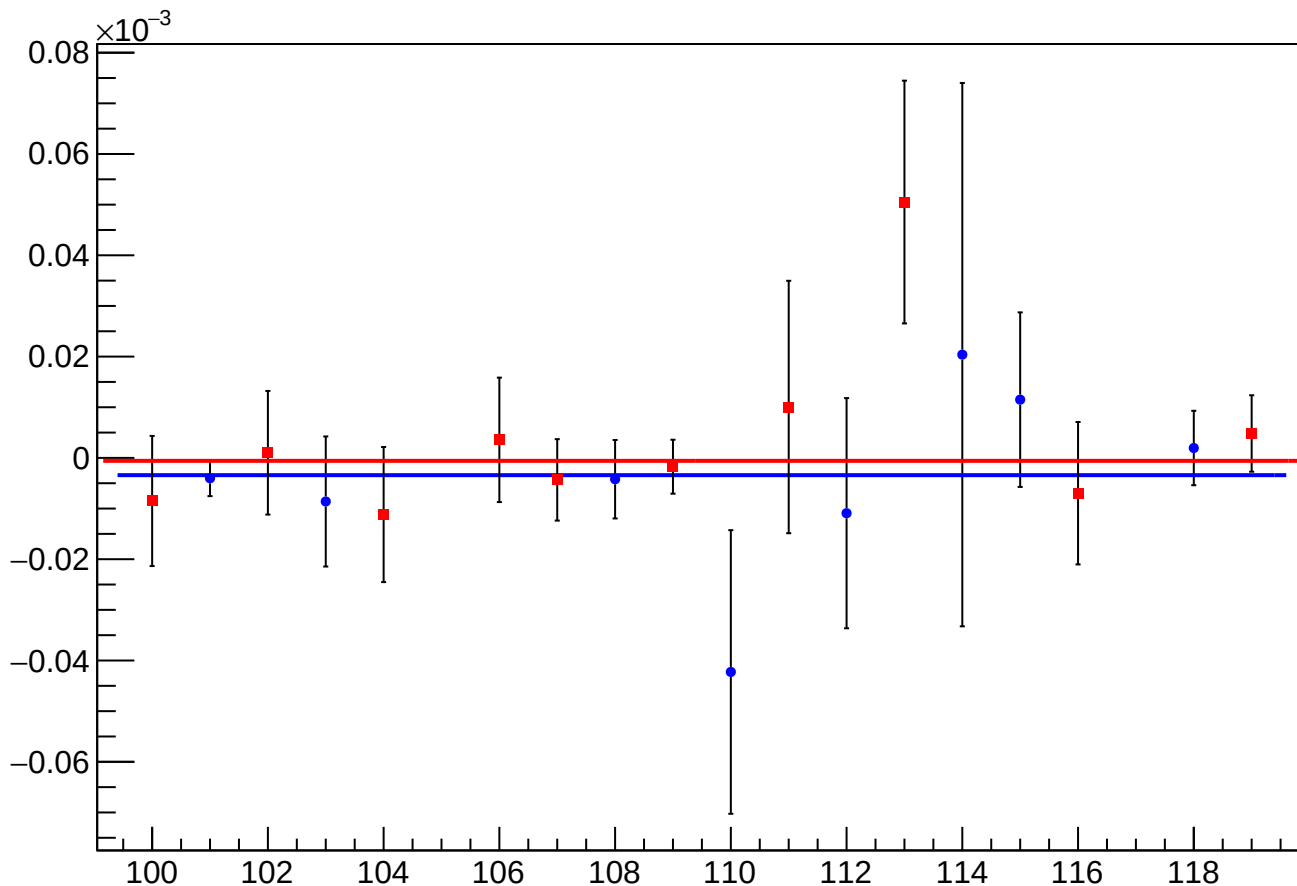
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.685+/-0.020  $\chi^2/\text{NDF}$ : 3481072.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.9/9

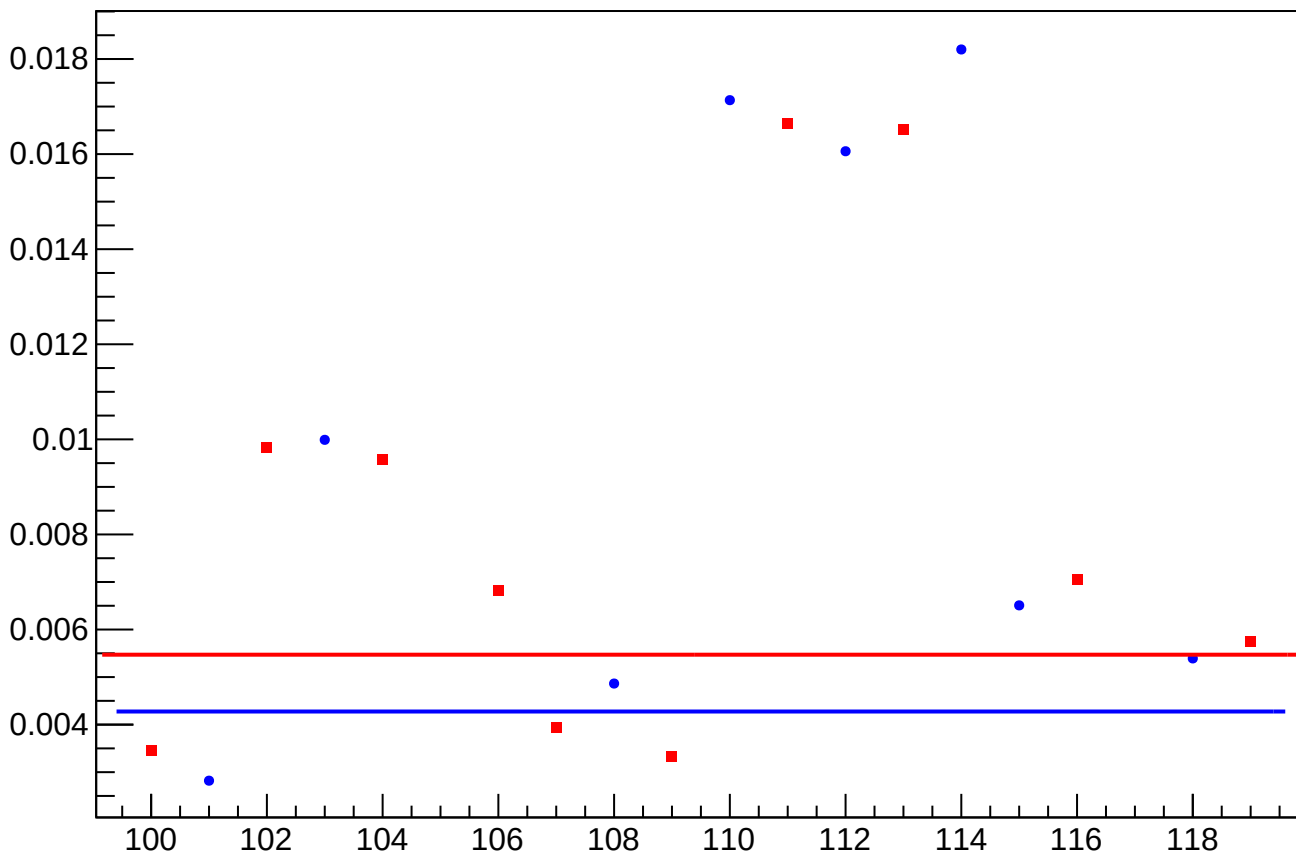
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.0/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 1921441.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1767839.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

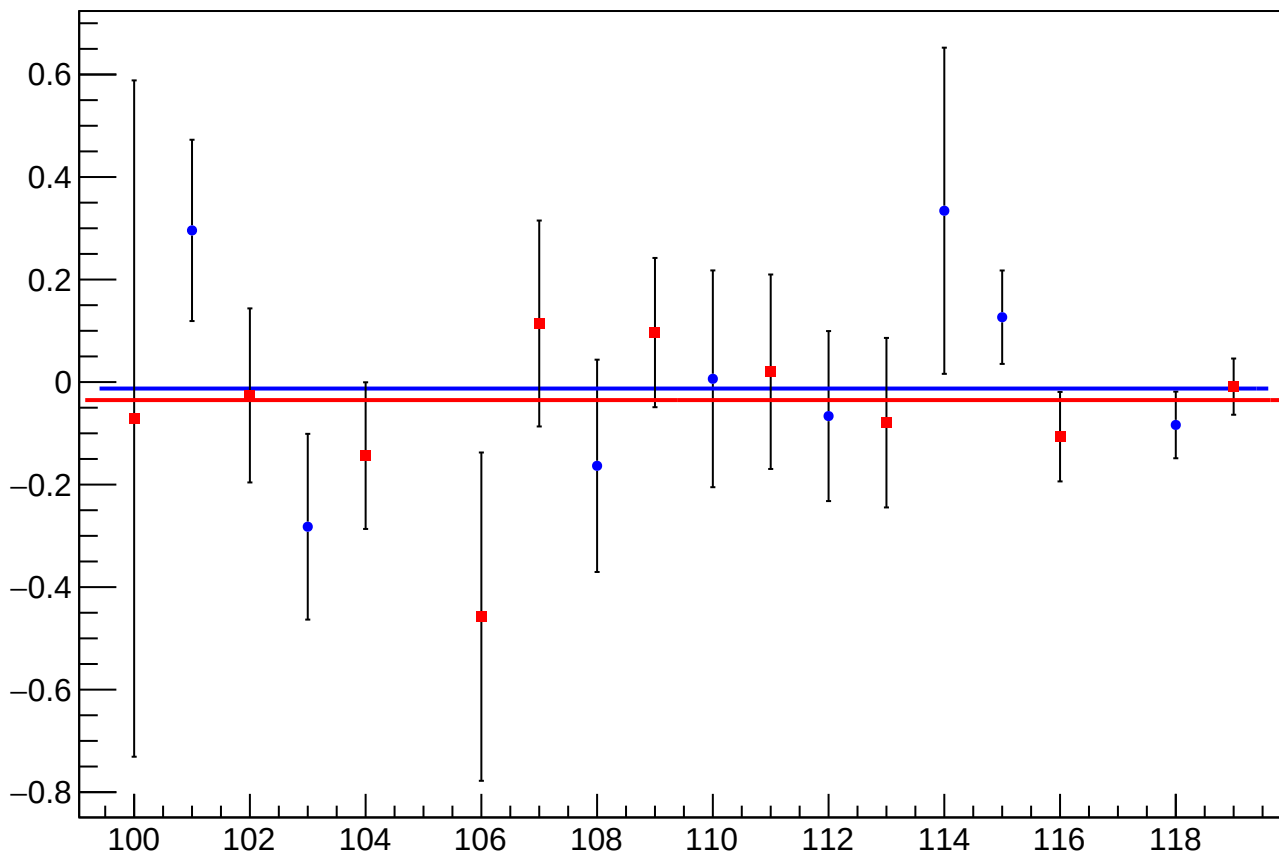
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 3851378.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_26\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.013+/-0.044  $\chi^2/\text{NDF}$ : 10.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.035+/-0.038  $\chi^2/\text{NDF}$ : 4.7/9

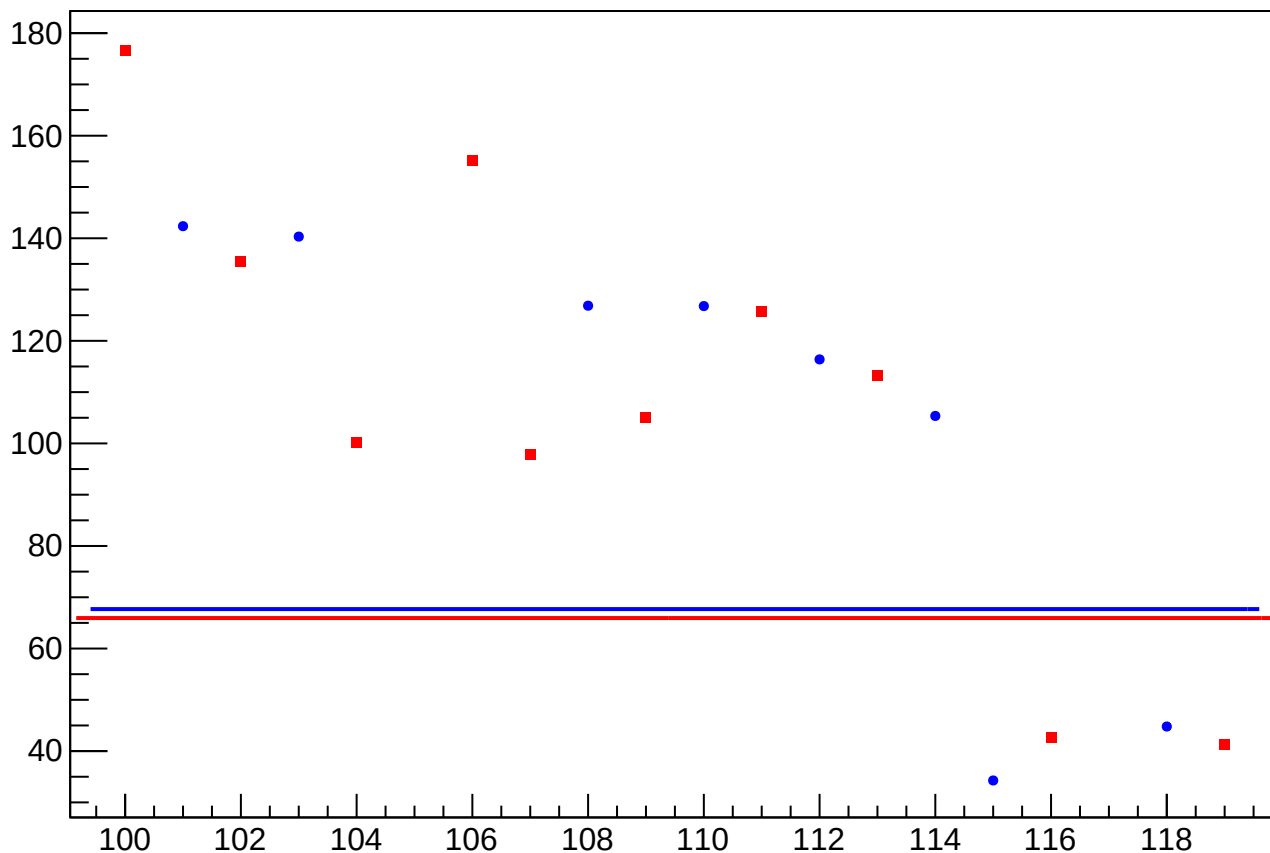
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.026+/-0.029  $\chi^2/\text{NDF}$ : 15.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 67.693+/-0.031  $\chi^2/\text{NDF}$ : 1714963.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 65.946+/-0.027  $\chi^2/\text{NDF}$ : 1764076.2/9

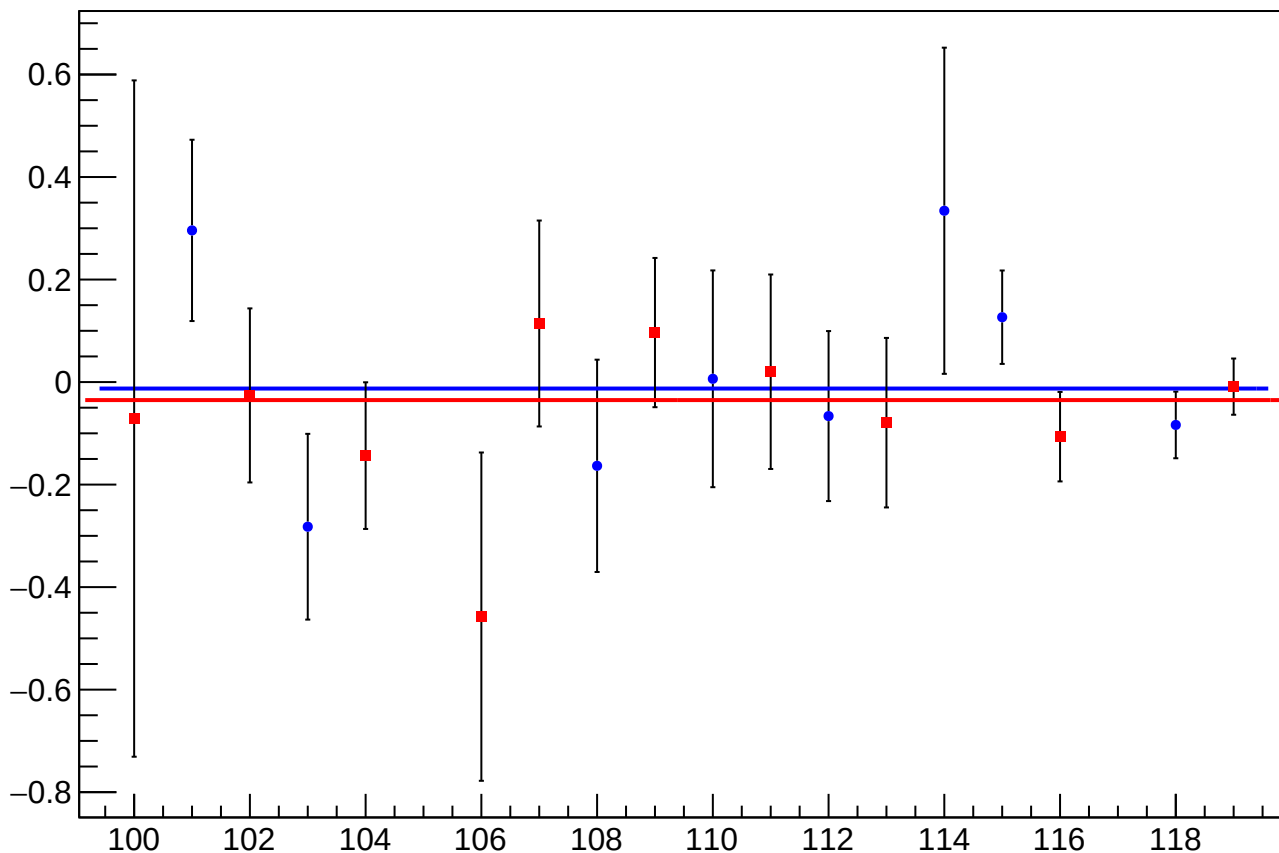
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.686+/-0.020  $\chi^2/\text{NDF}$ : 3480840.0/17

- 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: -0.013+/-0.044  $\chi^2/\text{NDF}$ : 10.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.035+/-0.038  $\chi^2/\text{NDF}$ : 4.7/9

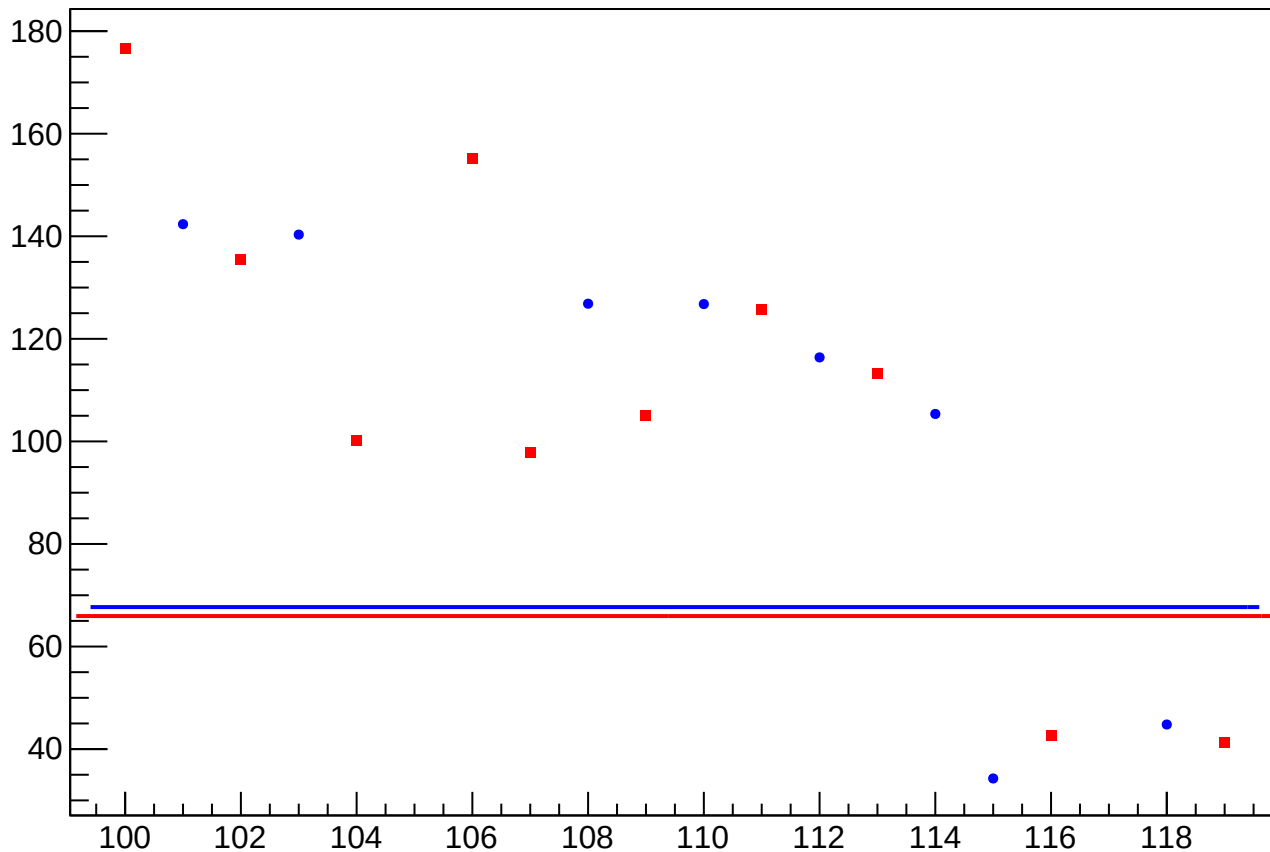
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.026+/-0.029  $\chi^2/\text{NDF}$ : 15.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 67.693+/-0.031  $\chi^2/\text{NDF}$ : 1714963.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 65.946+/-0.027  $\chi^2/\text{NDF}$ : 1764076.2/9

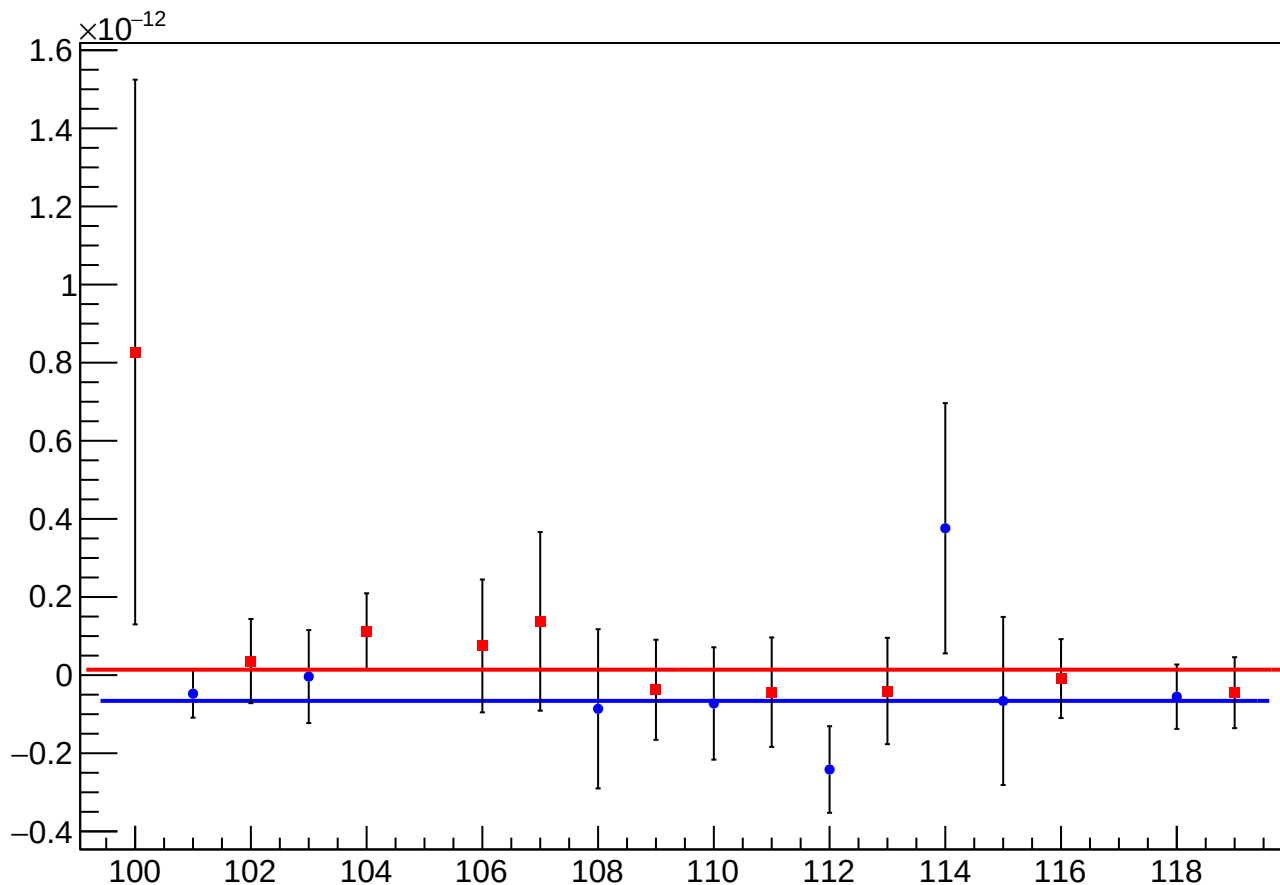
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.686+/-0.020  $\chi^2/\text{NDF}$ : 3480840.0/17

- 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: 4.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.8/9

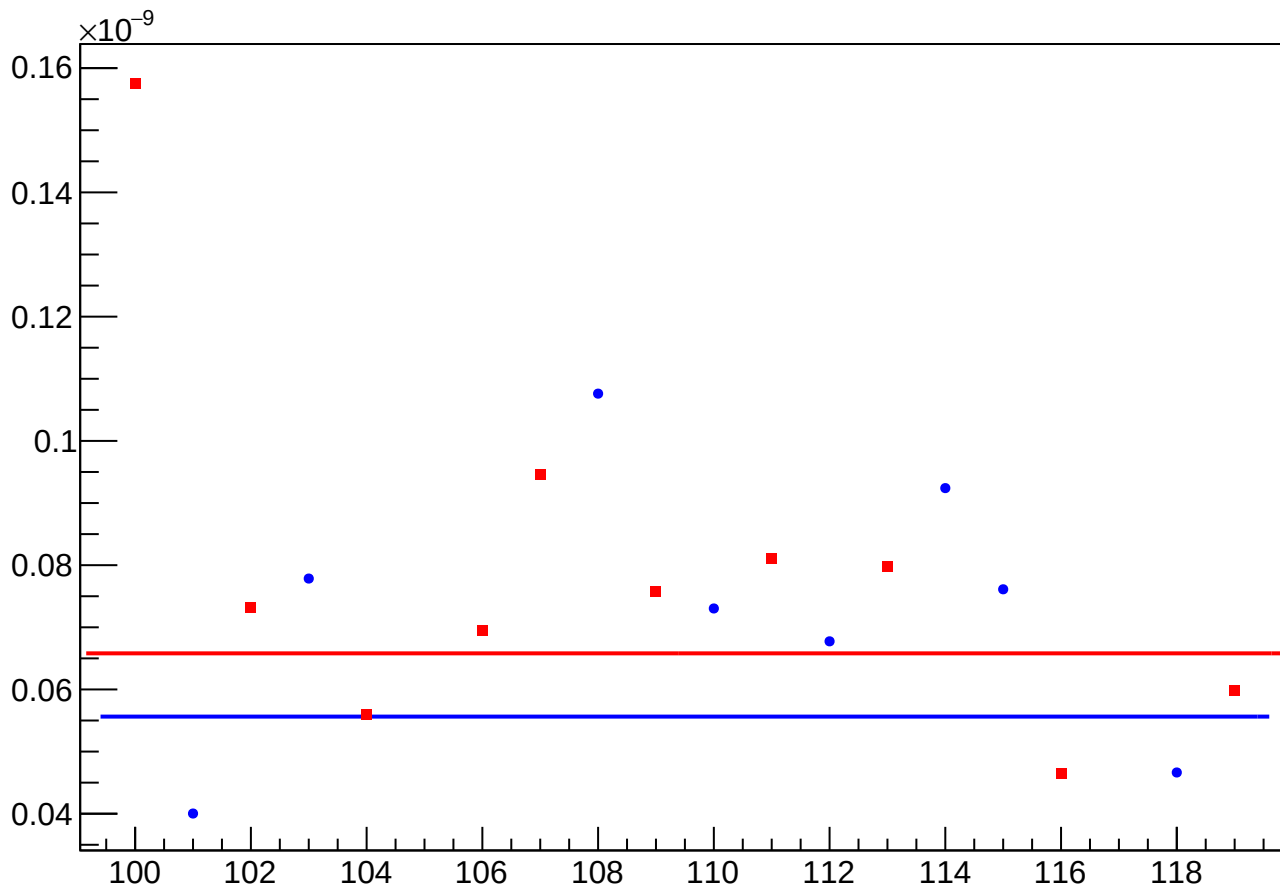
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.7/17

- 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  $\chi^2/\text{NDF}$ : 449874.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 235545.9/9

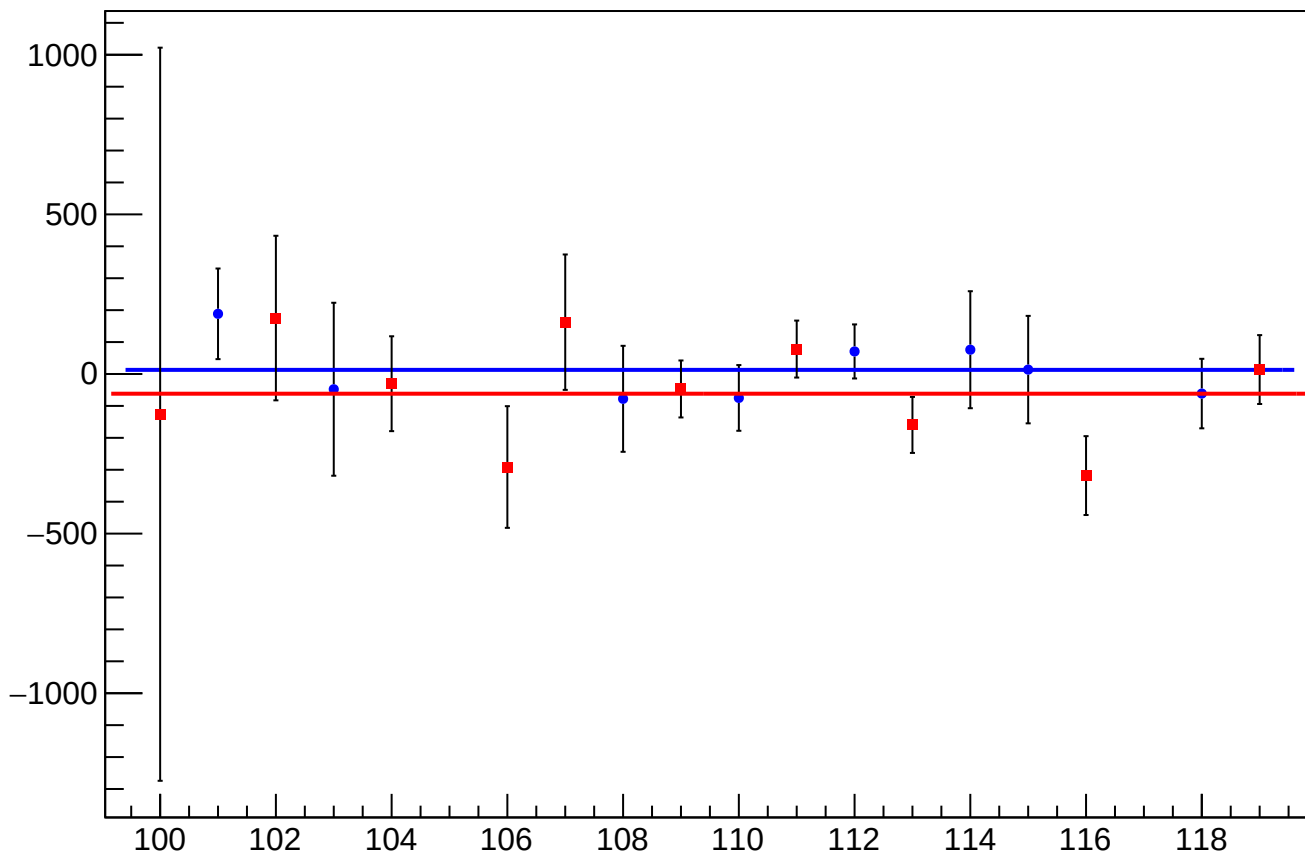
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 752728.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_avg\_mean vs Slug



Right In: 12.916+/-45.511  $\chi^2/\text{NDF}$ : 3.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -61.749+/-39.424  $\chi^2/\text{NDF}$ : 12.0/9

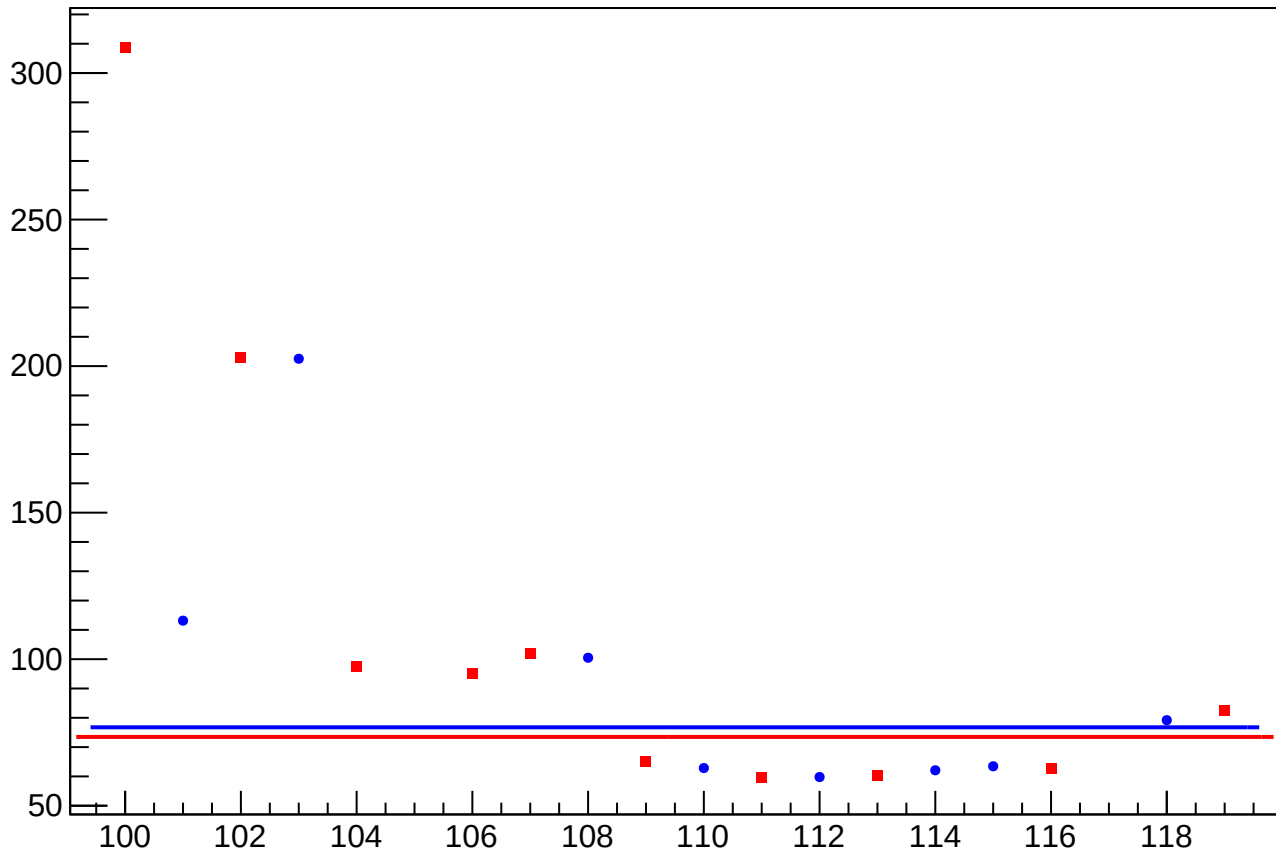
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -29.740+/-29.798  $\chi^2/\text{NDF}$ : 17.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 76.758+/-0.032  $\chi^2/\text{NDF}$ : 746360.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73.474+/-0.028  $\chi^2/\text{NDF}$ : 840480.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

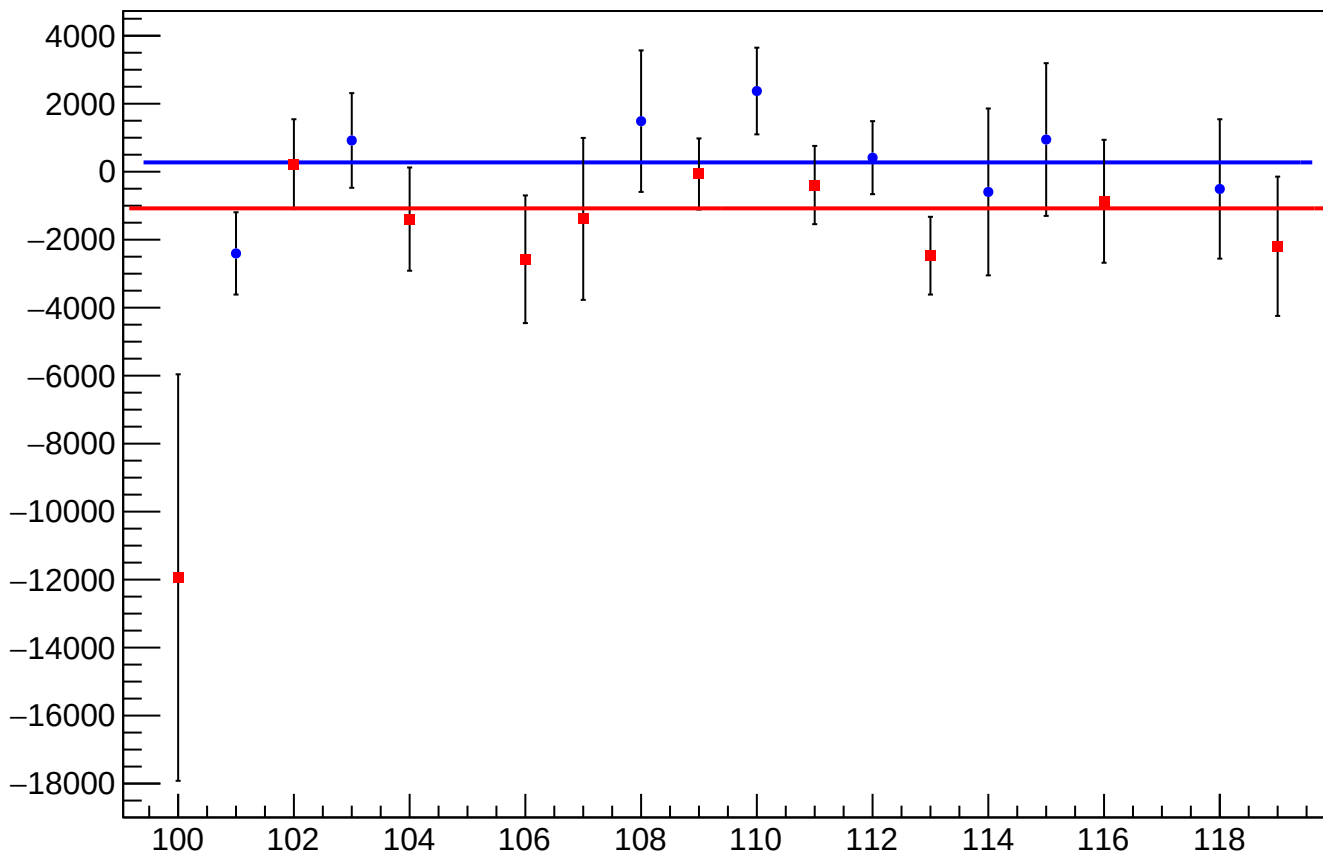
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.882+/-0.021  $\chi^2/\text{NDF}$ : 1592788.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_avg\_reg\_correction\_mean vs Slug



Right In: 273.514+/-533.583  $\chi^2/\text{NDF}$ : 8.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1078.248+/-472.899  $\chi^2/\text{NDF}$ : 8.0/9

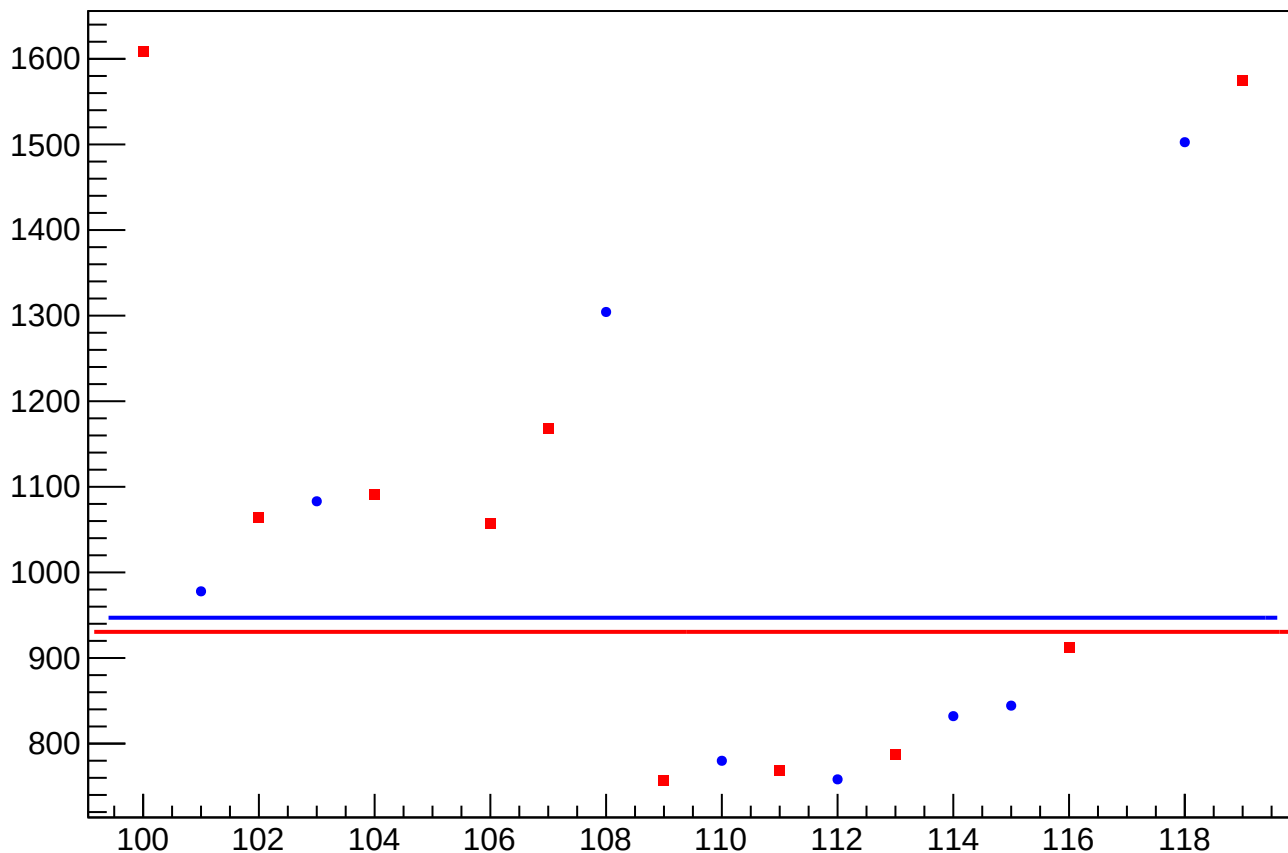
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -483.574+/-353.909  $\chi^2/\text{NDF}$ : 20.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_reg\_correction\_rms vs Slug



Right In: 947.059+/-0.377  $\chi^2/\text{NDF}$ : 330859.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 930.549+/-0.334  $\chi^2/\text{NDF}$ : 421327.8/9

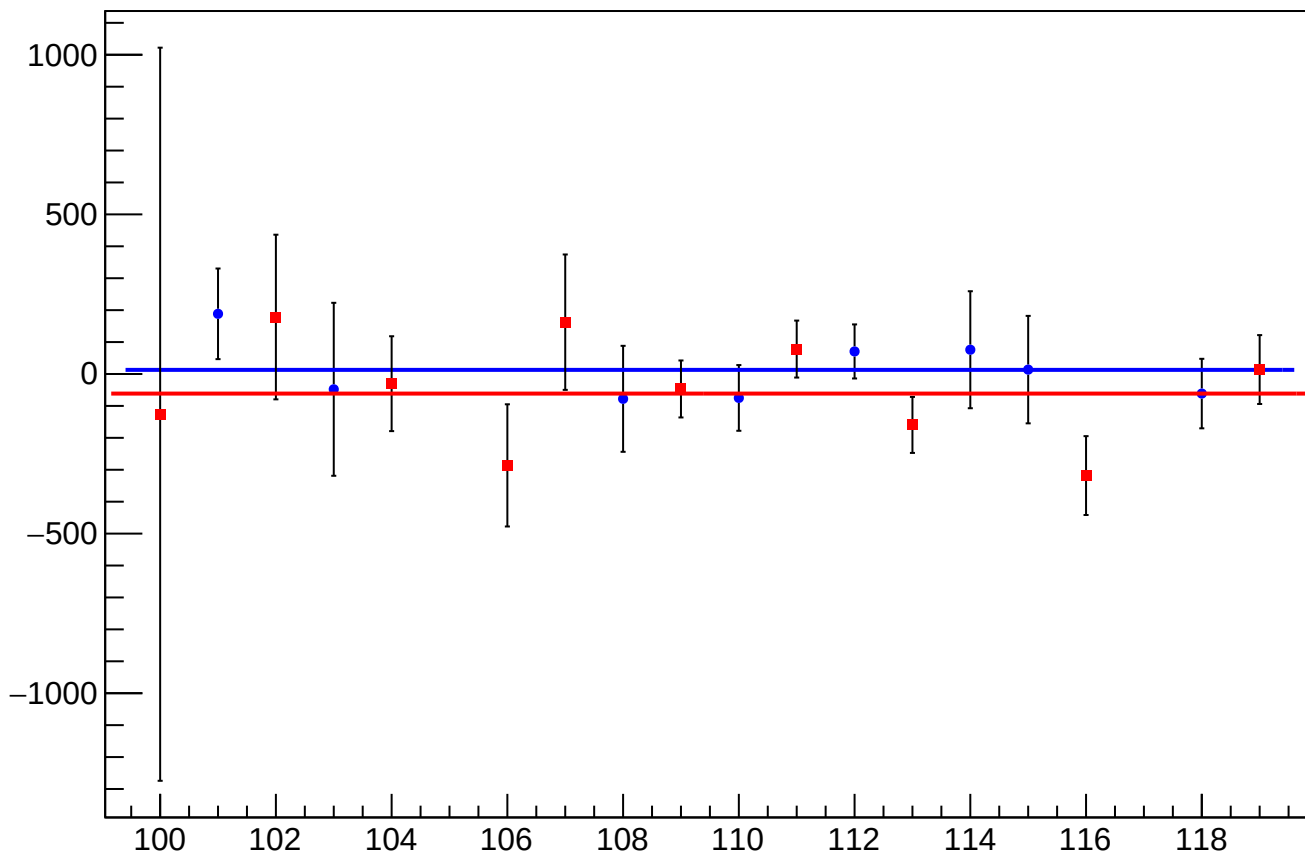
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 937.812+/-0.250  $\chi^2/\text{NDF}$ : 753259.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_37\_avg\_mean vs Slug



Right In: 12.898+/-45.511  $\chi^2/\text{NDF}$ : 3.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -61.369+/-39.431  $\chi^2/\text{NDF}$ : 11.9/9

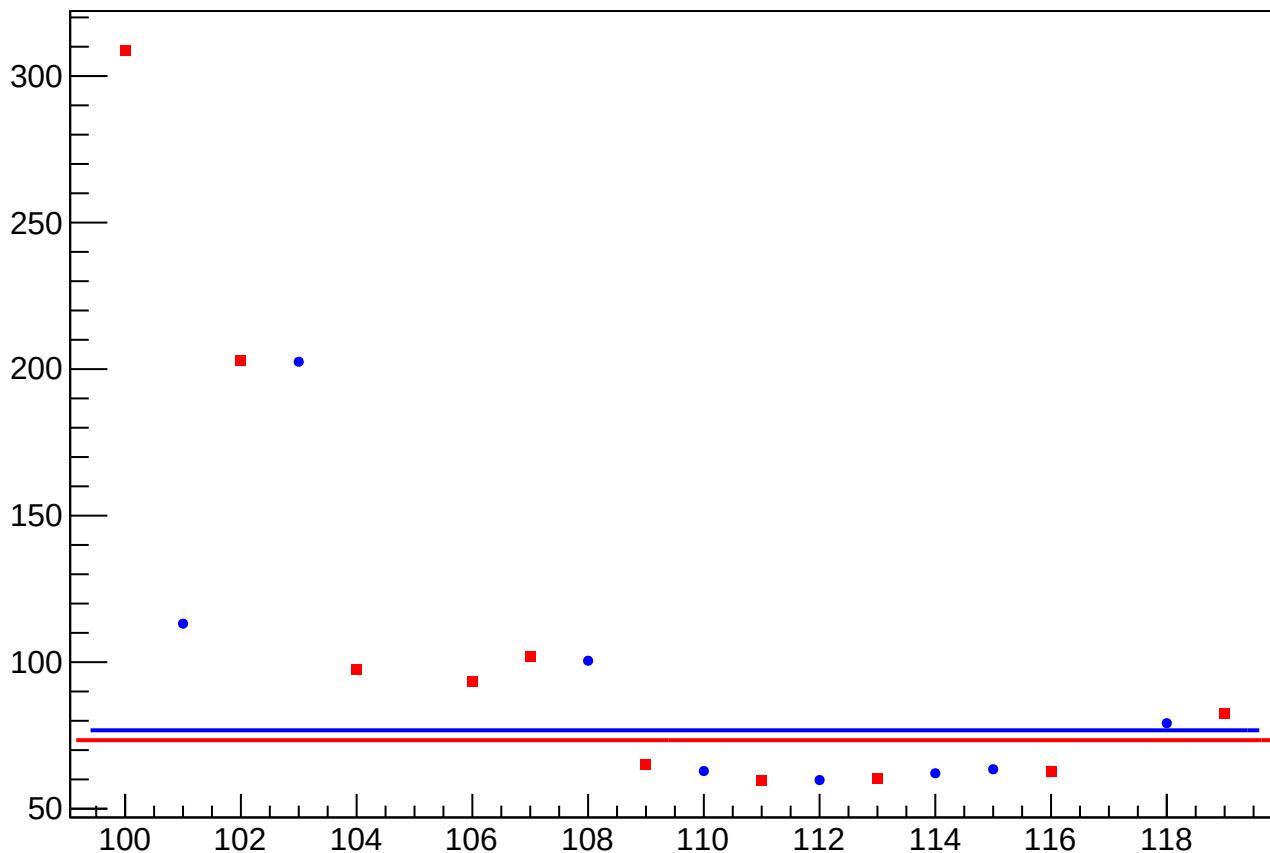
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -29.524+/-29.802  $\chi^2/\text{NDF}$ : 17.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 76.758+/-0.032  $\chi^2/\text{NDF}$ : 746362.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73.394+/-0.028  $\chi^2/\text{NDF}$ : 836620.5/9

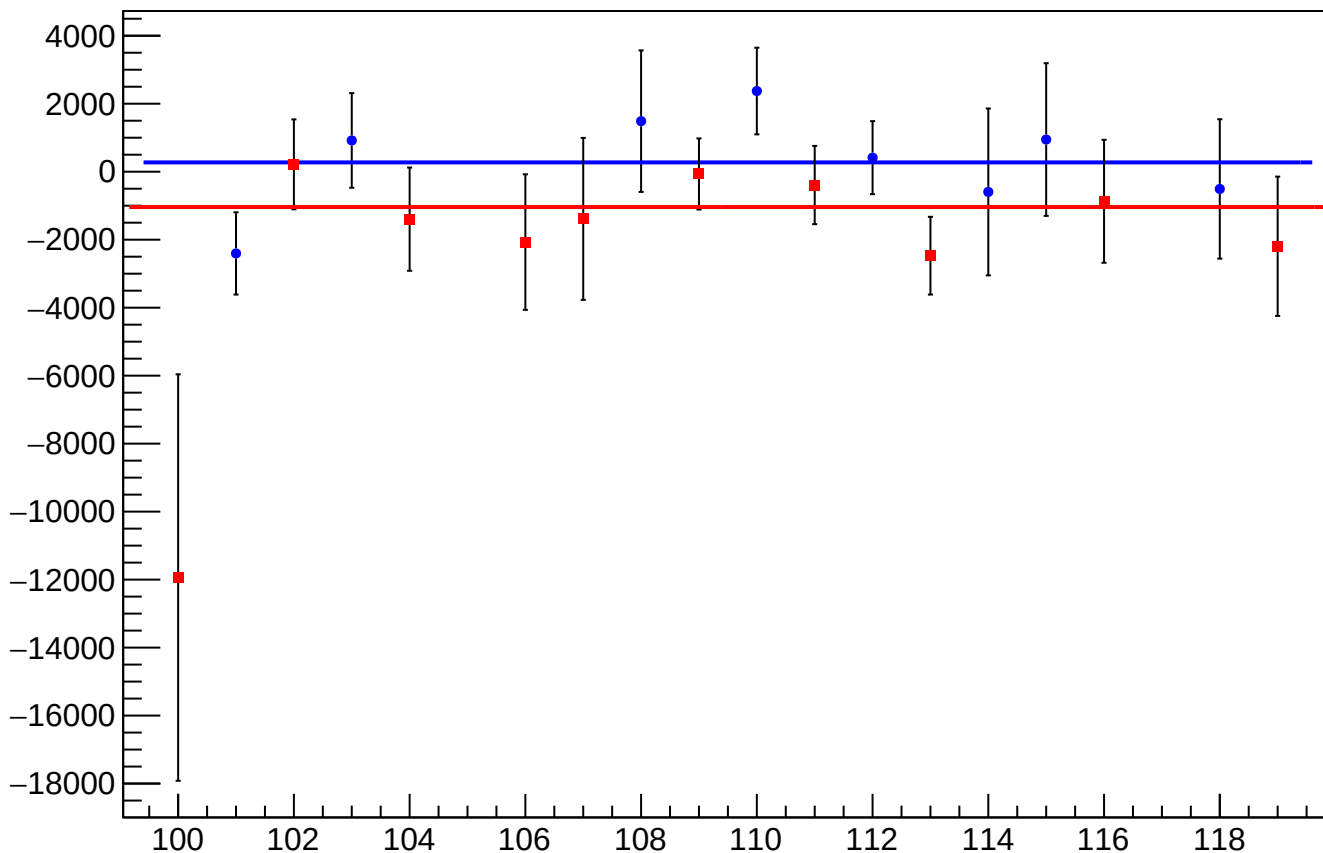
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.836+/-0.021  $\chi^2/\text{NDF}$ : 1589225.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_cor\_correction\_mean vs Slug



Right In: 273.556+/-533.591  $\chi^2/\text{NDF}$ : 8.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1039.949+/-474.652  $\chi^2/\text{NDF}$ : 7.6/9

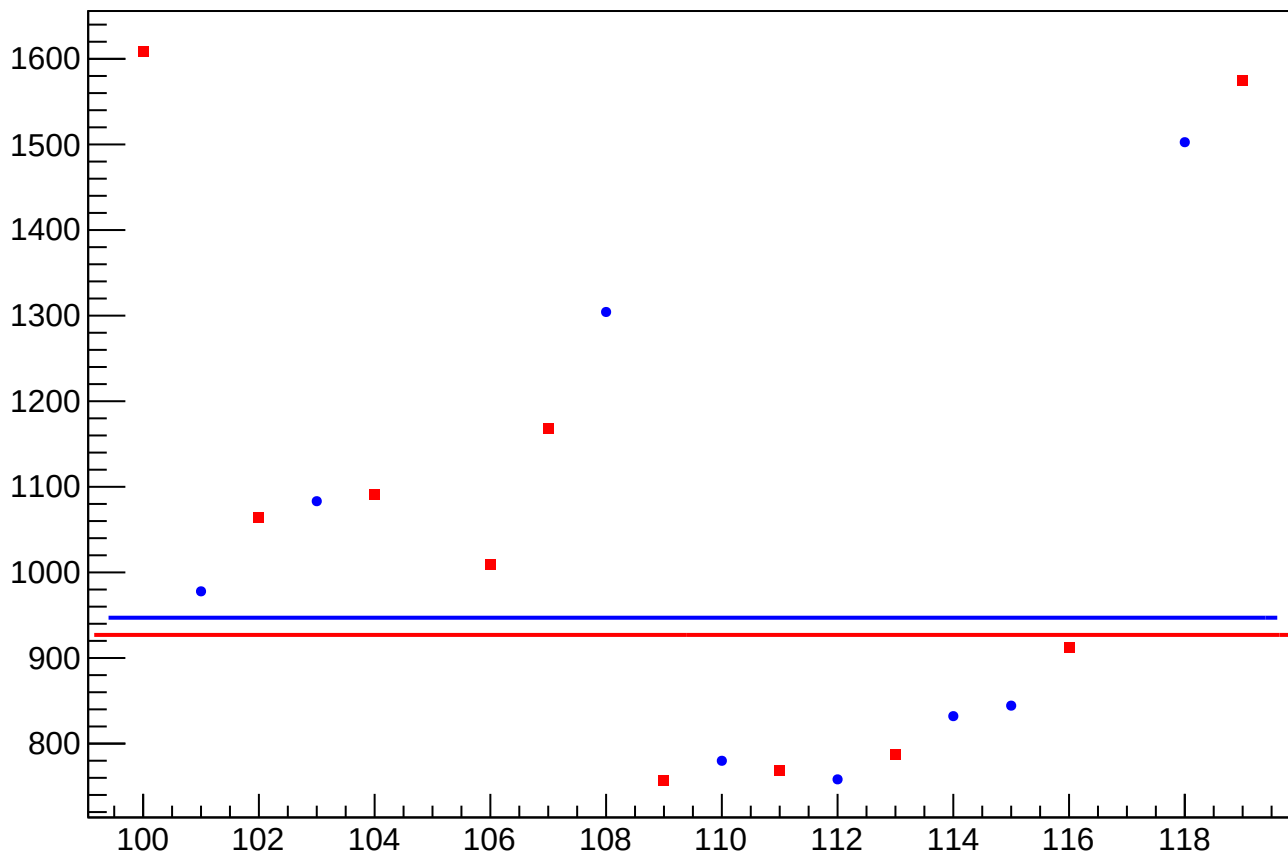
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -459.718+/-354.644  $\chi^2/\text{NDF}$ : 19.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_cor\_correction\_rms vs Slug



Right In: 947.071+/-0.377  $\chi^2/\text{NDF}$ : 330886.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 926.977+/-0.336  $\chi^2/\text{NDF}$ : 415412.8/9

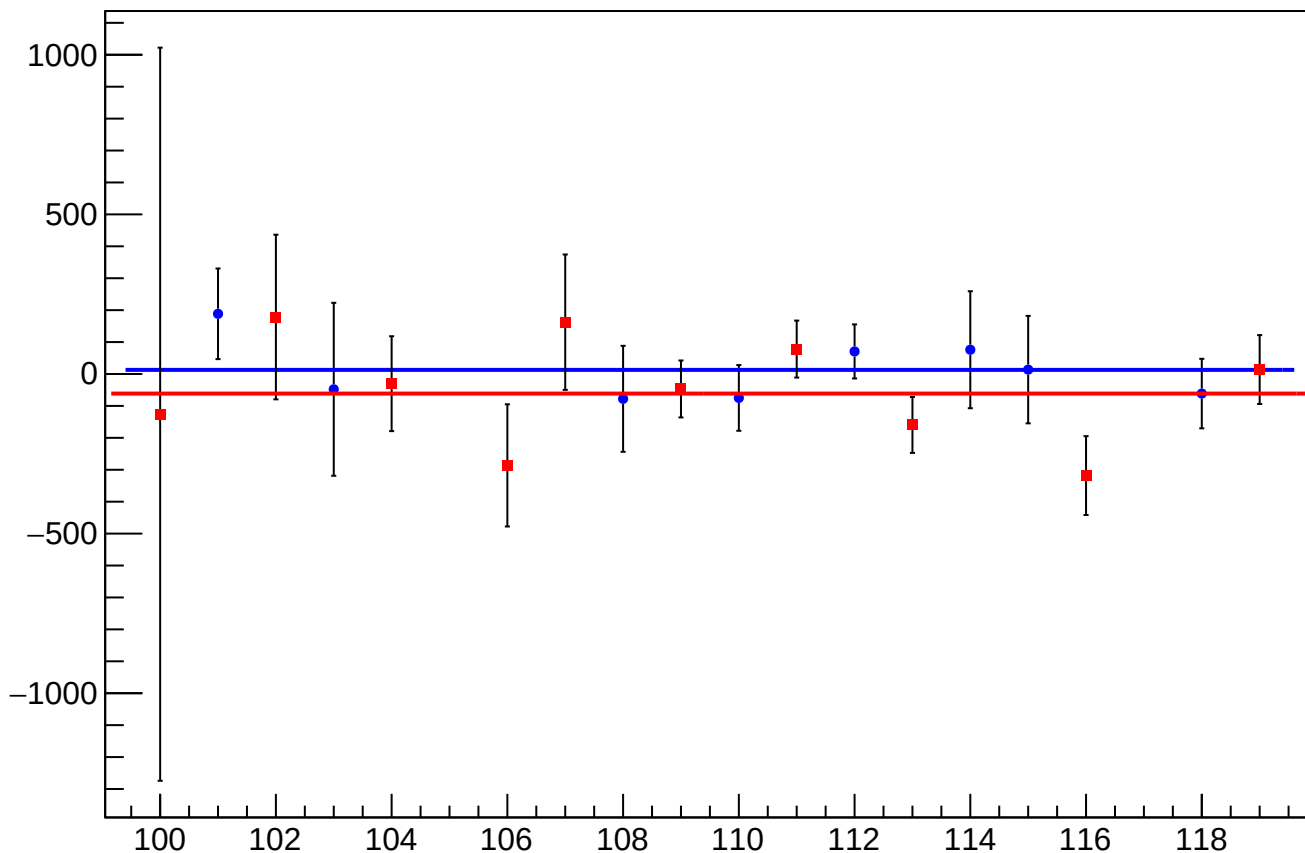
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 935.853+/-0.251  $\chi^2/\text{NDF}$ : 747883.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_avg\_mean vs Slug



Right In: 12.898+/-45.511  $\chi^2/\text{NDF}$ : 3.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -61.369+/-39.431  $\chi^2/\text{NDF}$ : 11.9/9

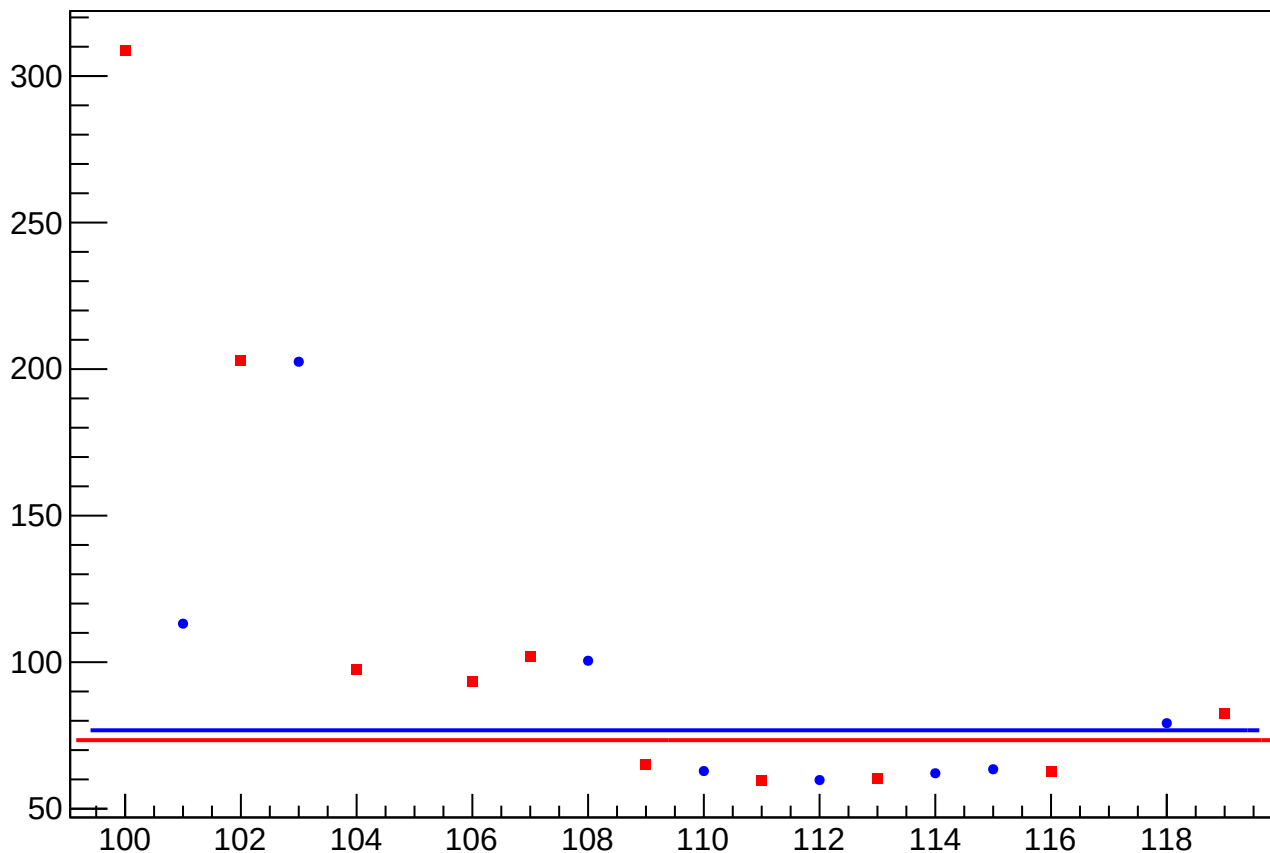
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -29.524+/-29.802  $\chi^2/\text{NDF}$ : 17.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 76.758+/-0.032  $\chi^2/\text{NDF}$ : 746362.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73.394+/-0.028  $\chi^2/\text{NDF}$ : 836620.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

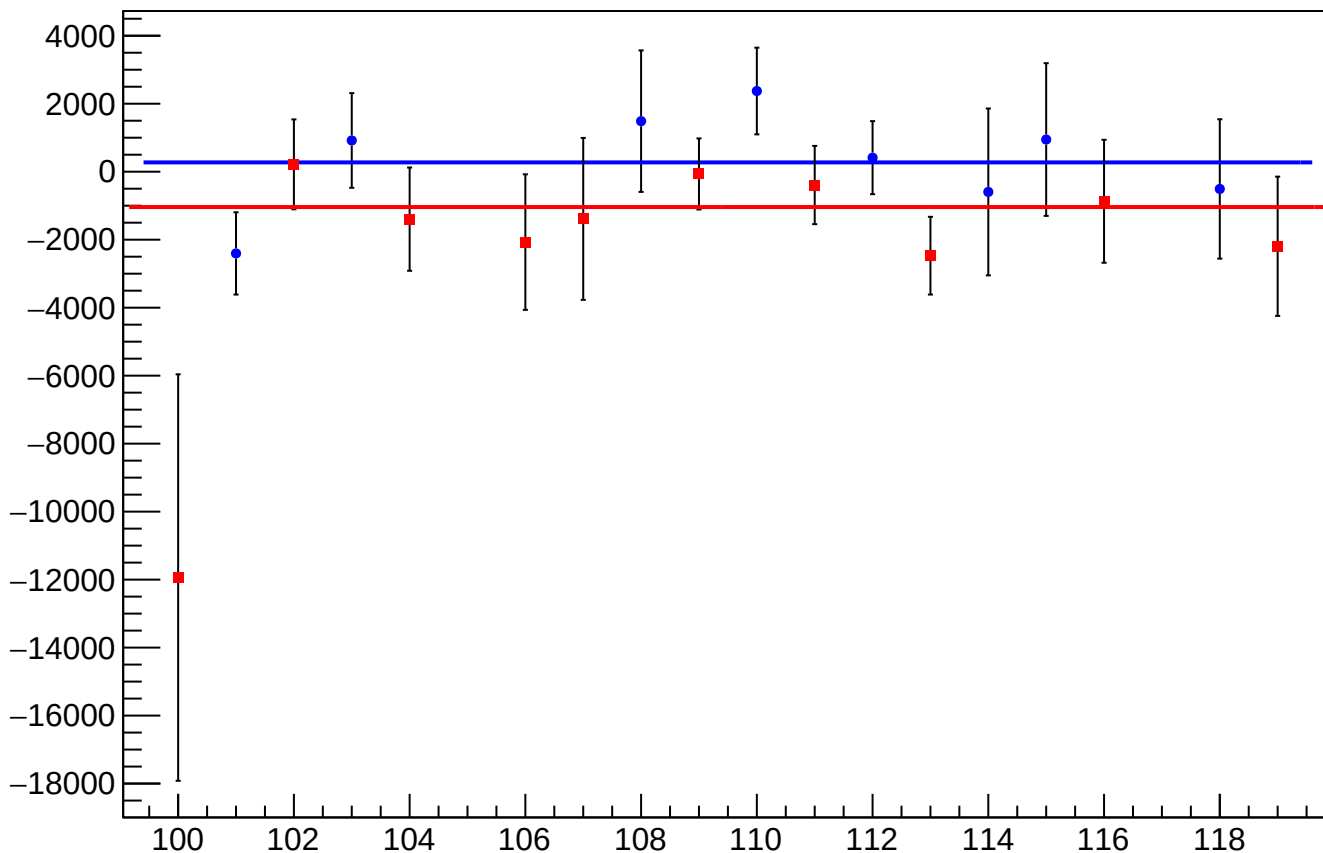
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.836+/-0.021  $\chi^2/\text{NDF}$ : 1589225.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 273.556+/-533.591  $\chi^2/\text{NDF}$ : 8.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1039.949+/-474.652  $\chi^2/\text{NDF}$ : 7.6/9

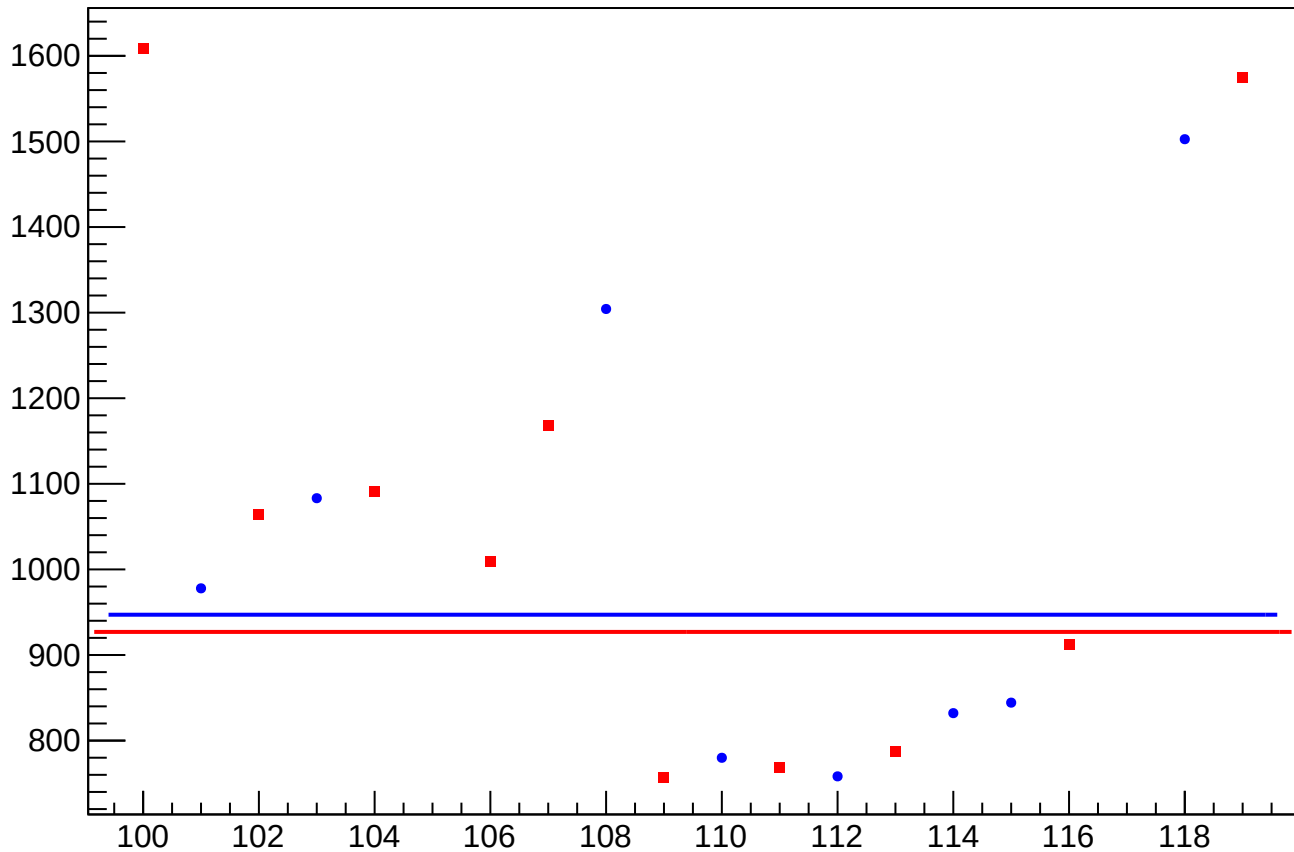
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -459.718+/-354.644  $\chi^2/\text{NDF}$ : 19.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 947.071+/-0.377  $\chi^2/\text{NDF}$ : 330886.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 926.977+/-0.336  $\chi^2/\text{NDF}$ : 415412.8/9

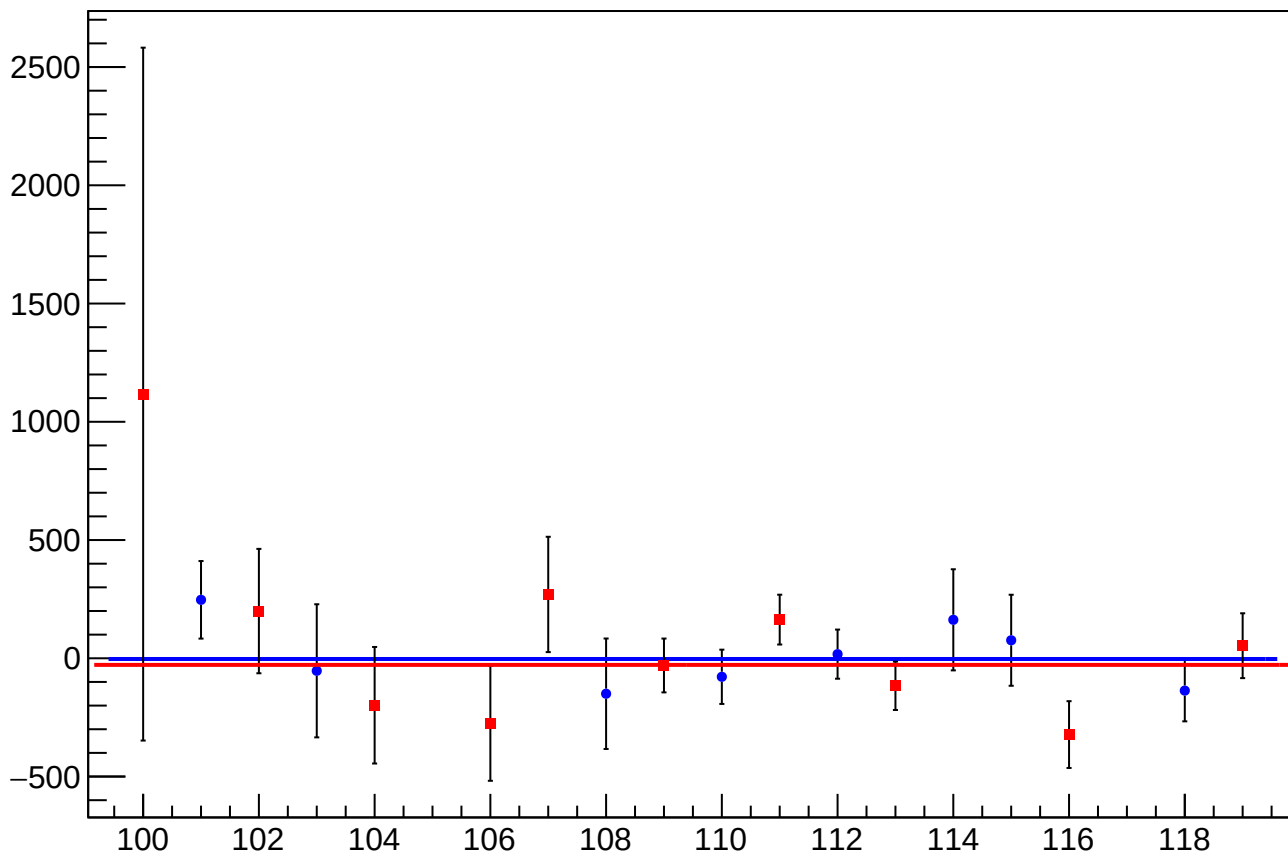
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 935.853+/-0.251  $\chi^2/\text{NDF}$ : 747883.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_37\_avg\_mean vs Slug



Right In:  $-2.994 \pm 53.849$   $\chi^2/\text{NDF}$ : 5.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-27.906 \pm 48.145$   $\chi^2/\text{NDF}$ : 13.1/9

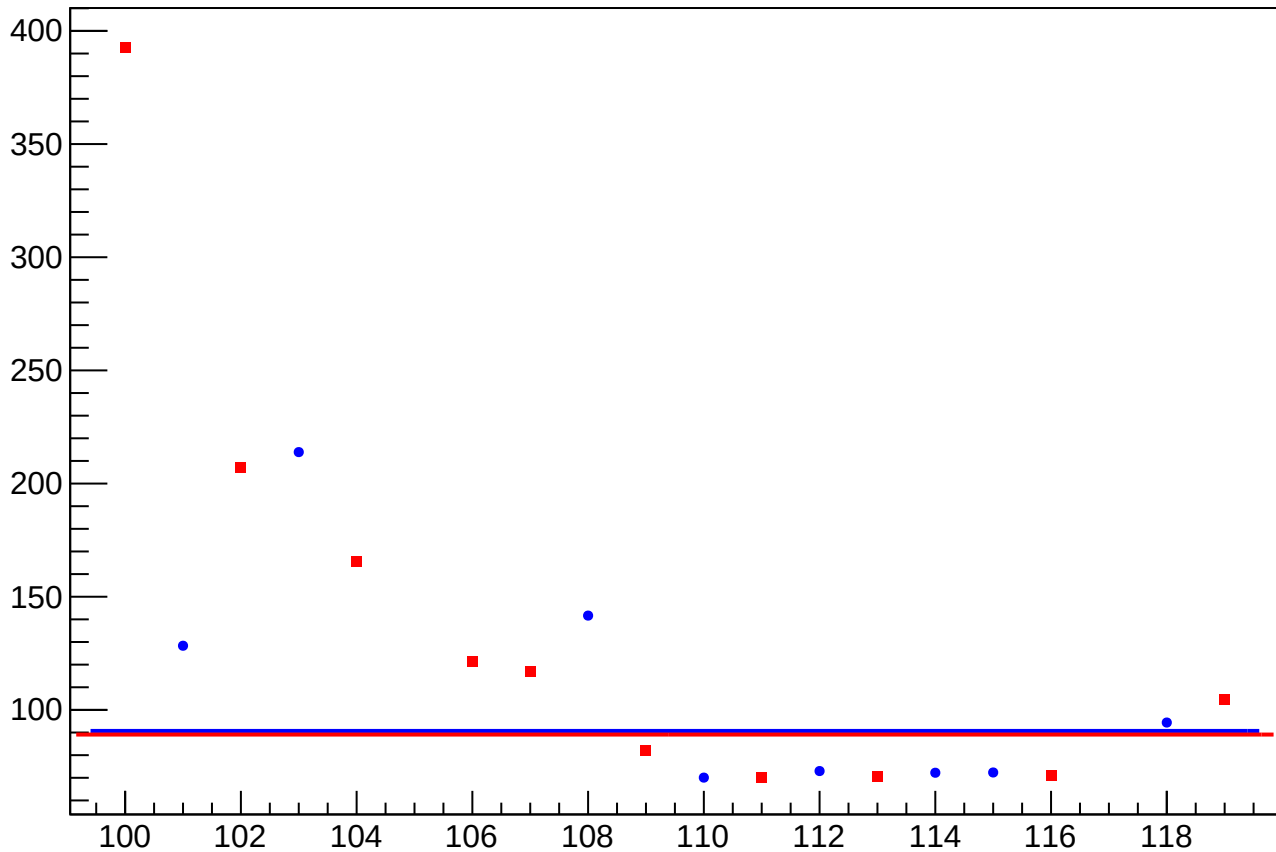
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-16.839 \pm 35.891$   $\chi^2/\text{NDF}$ : 18.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 90.709 $\pm$ 0.038  $\chi^2$ /NDF: 741444.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 89.104 $\pm$ 0.034  $\chi^2$ /NDF: 941005.2/9

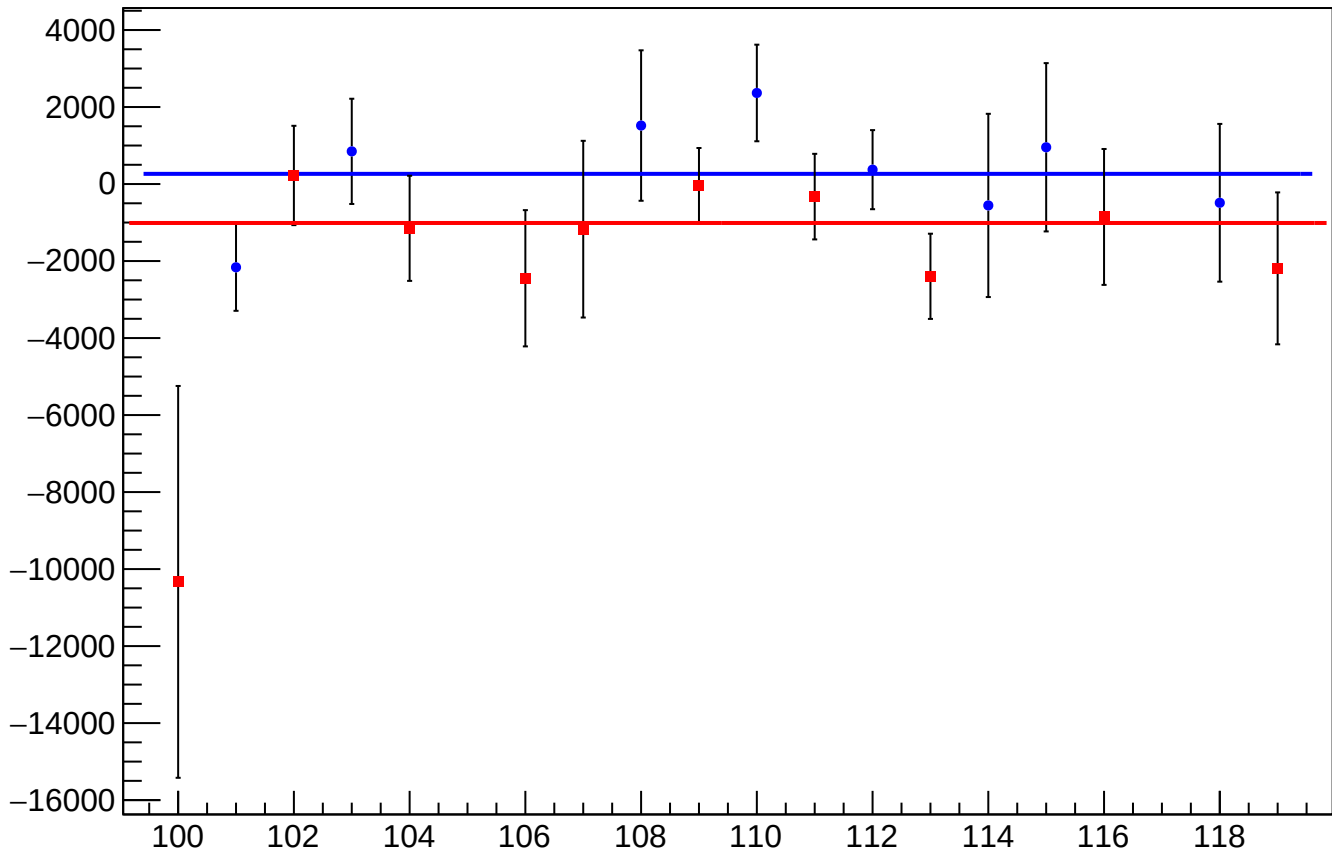
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.817 $\pm$ 0.025  $\chi^2$ /NDF: 1683438.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_avg\_dit\_correction\_mean vs Slug



Right In: 264.469+/-513.763  $\chi^2/\text{NDF}$ : 8.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1011.395+/-450.177  $\chi^2/\text{NDF}$ : 8.2/9

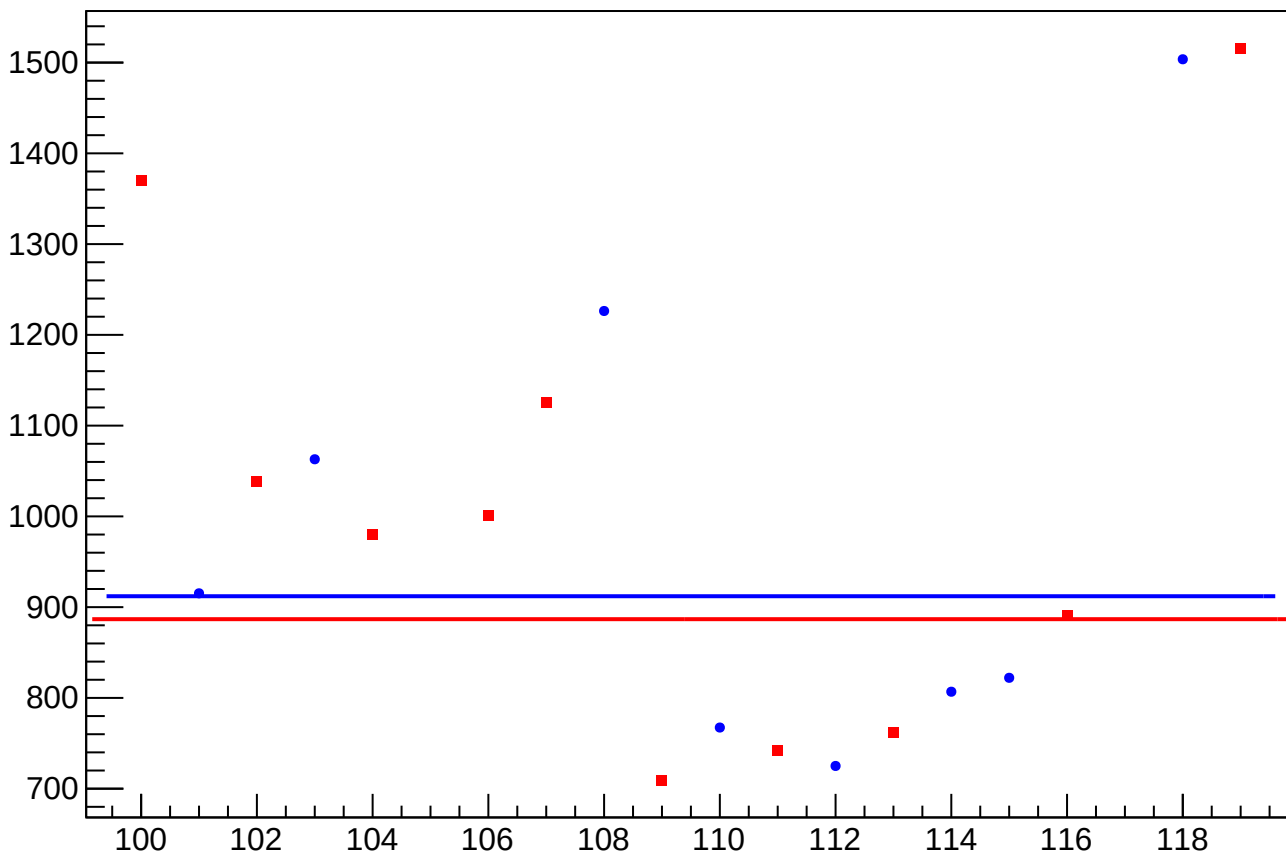
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -457.260+/-338.585  $\chi^2/\text{NDF}$ : 20.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_dit\_correction\_rms vs Slug



Right In: 912.031+/-0.363  $\chi^2/\text{NDF}$ : 343161.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 886.751+/-0.318  $\chi^2/\text{NDF}$ : 413202.6/9

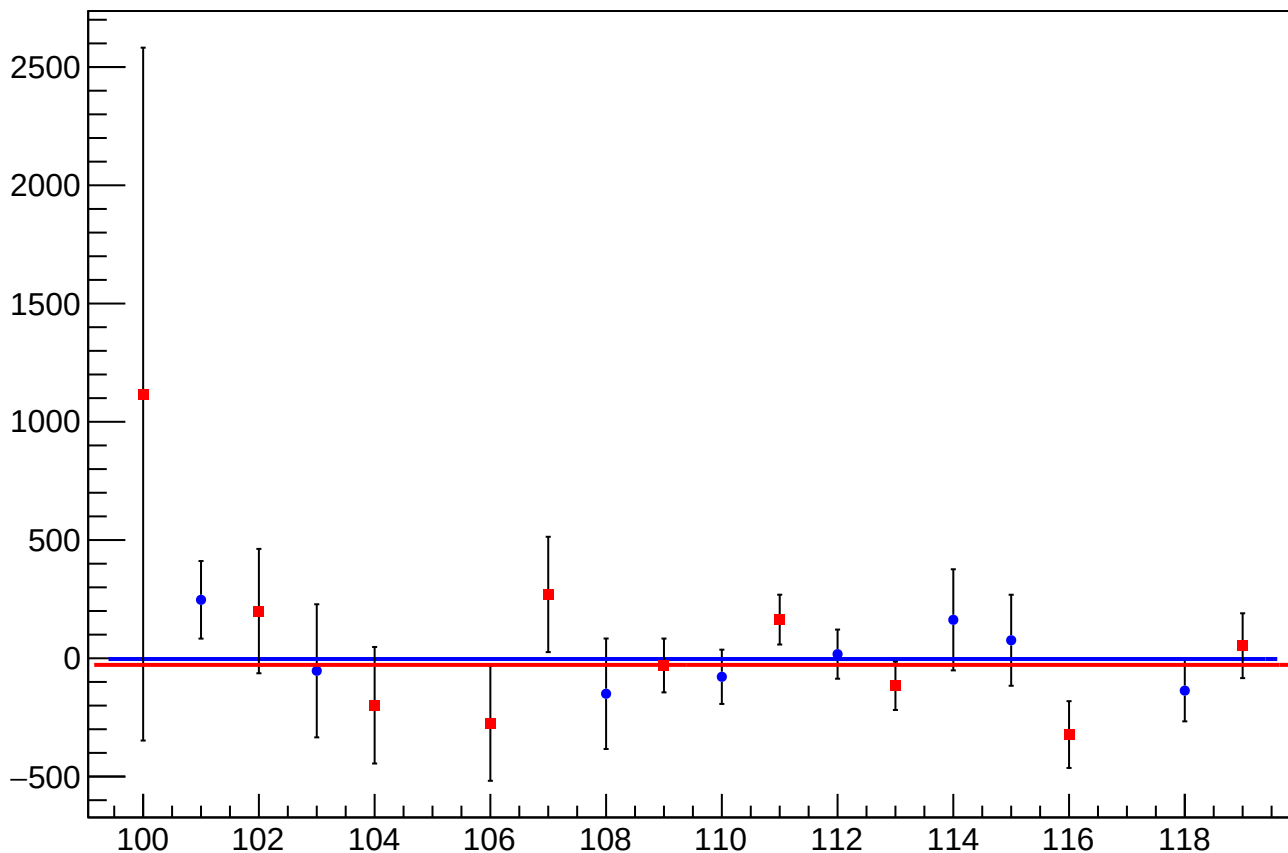
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 897.731+/-0.239  $\chi^2/\text{NDF}$ : 759103.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_37\_avg\_mean vs Slug



Right In: -2.996+/-53.849  $\chi^2/\text{NDF}$ : 5.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -27.904+/-48.145  $\chi^2/\text{NDF}$ : 13.1/9

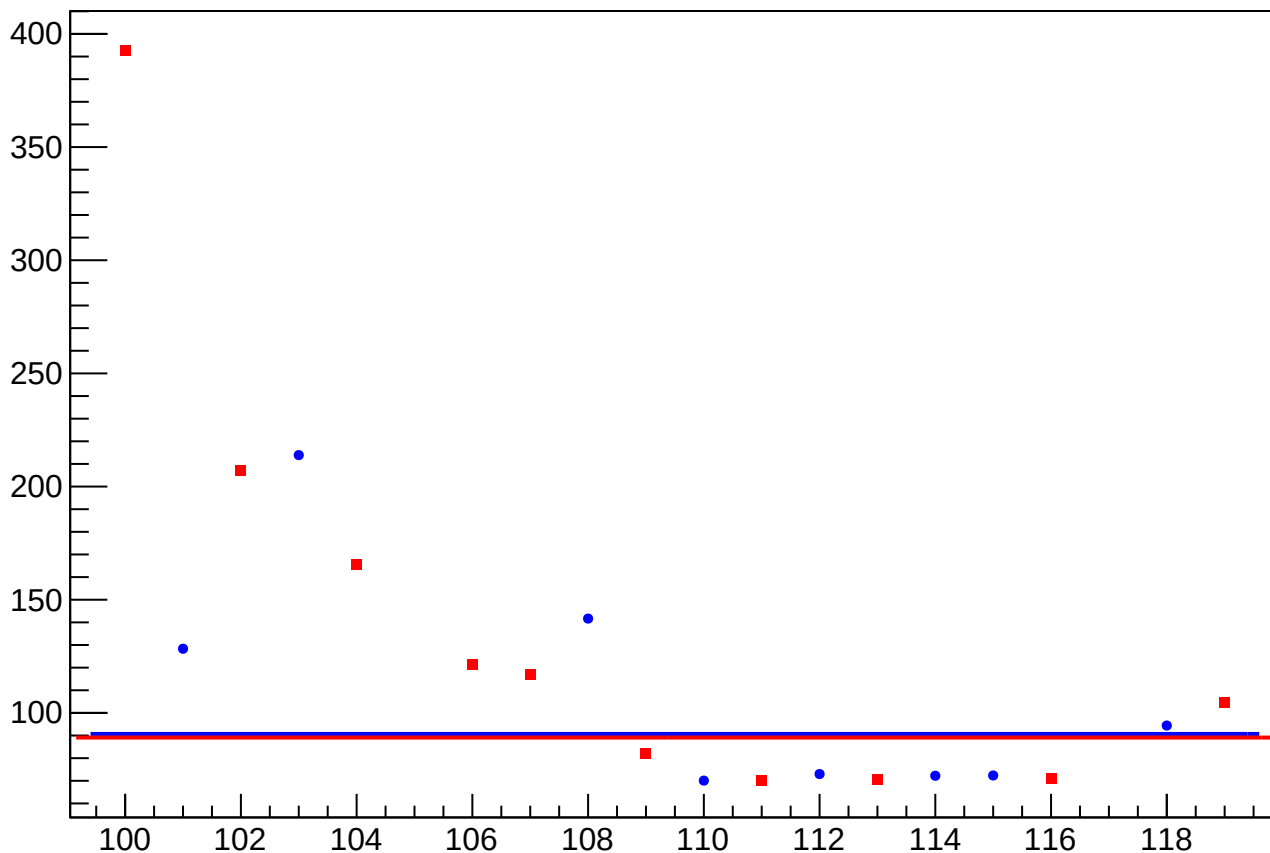
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -16.839+/-35.892  $\chi^2/\text{NDF}$ : 18.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 90.710 $\pm$ 0.038  $\chi^2$ /NDF: 741436.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 89.104 $\pm$ 0.034  $\chi^2$ /NDF: 940995.8/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

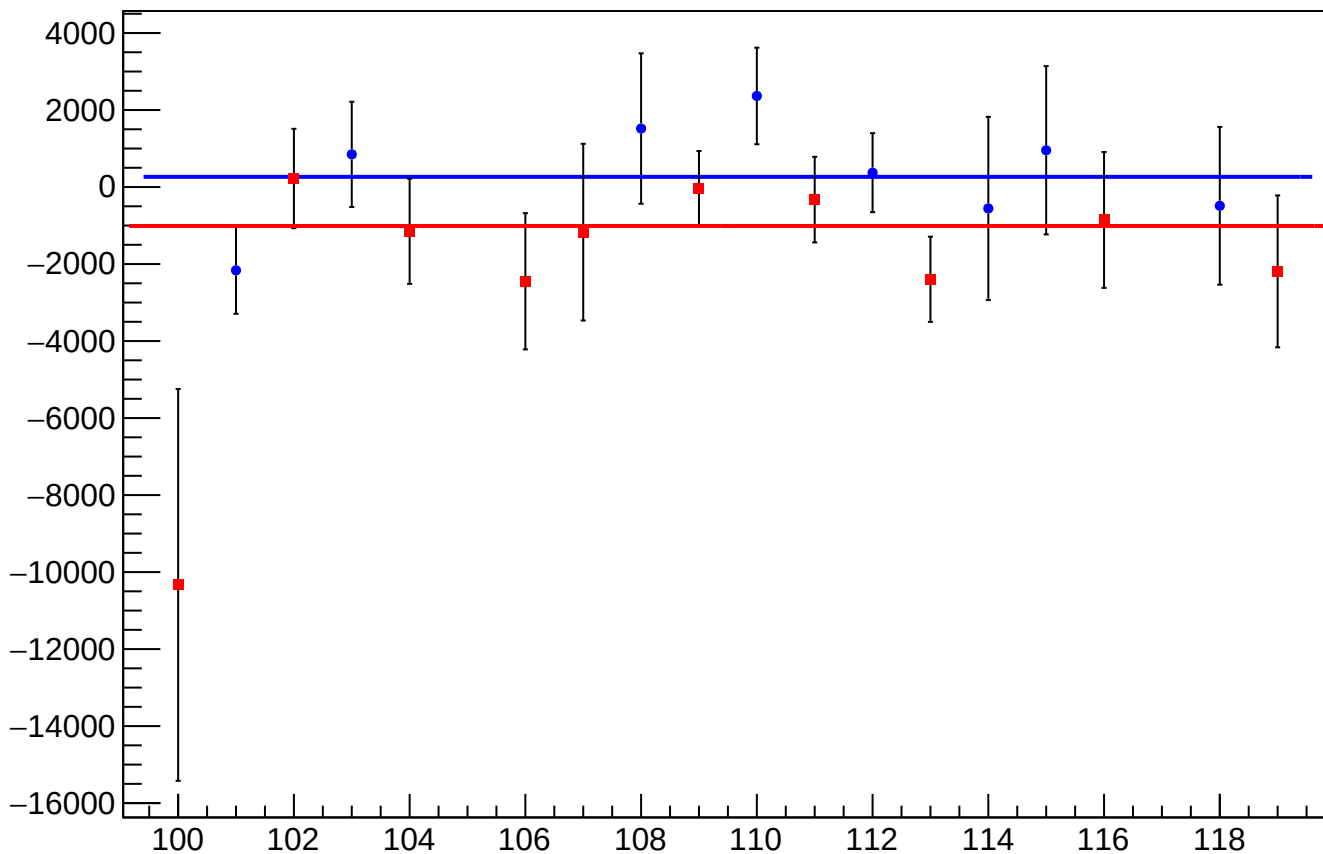
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.818 $\pm$ 0.025  $\chi^2$ /NDF: 1683420.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 264.468 $\pm$ 513.761  $\chi^2$ /NDF: 8.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1011.393 $\pm$ 450.176  $\chi^2$ /NDF: 8.2/9

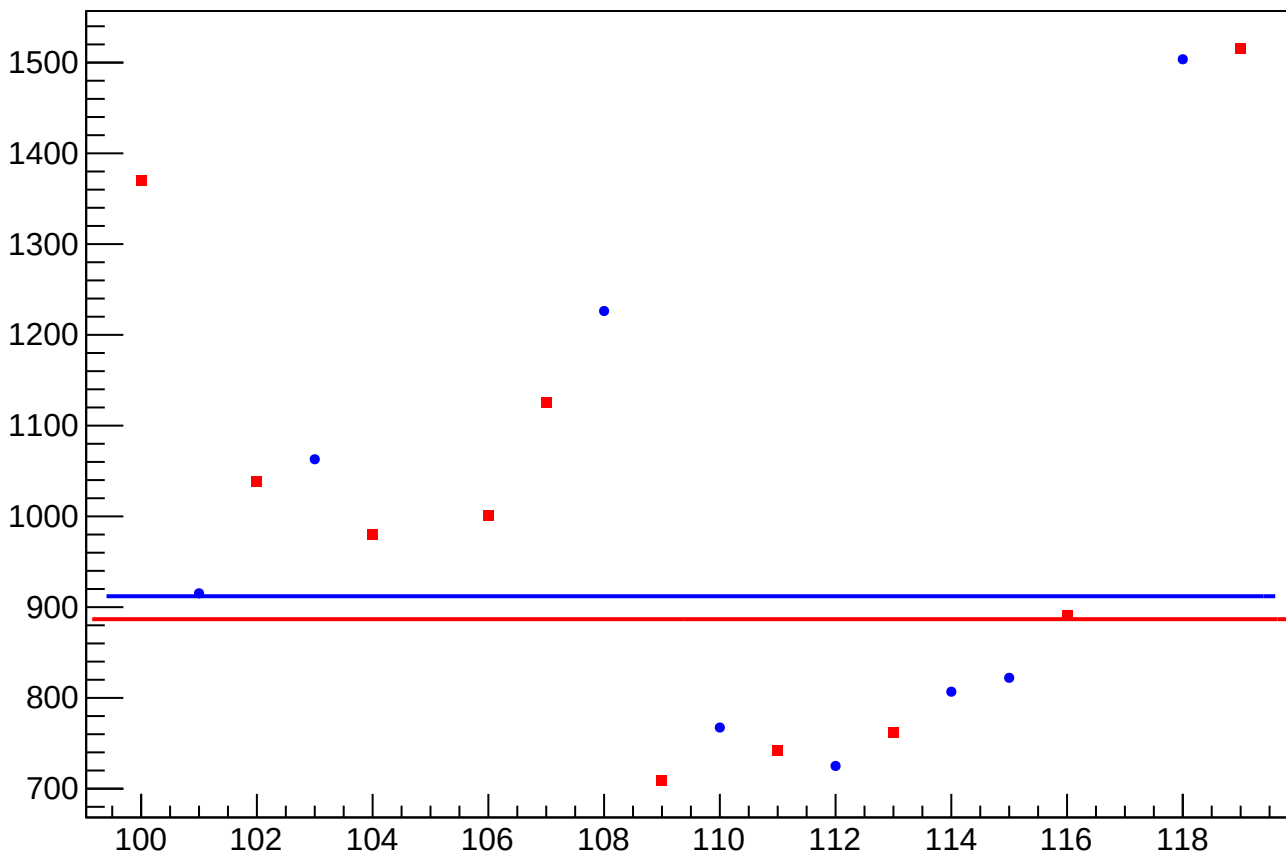
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -457.259 $\pm$ 338.585  $\chi^2$ /NDF: 20.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 912.028+/-0.363  $\chi^2/\text{NDF}$ : 343163.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 886.749+/-0.318  $\chi^2/\text{NDF}$ : 413203.2/9

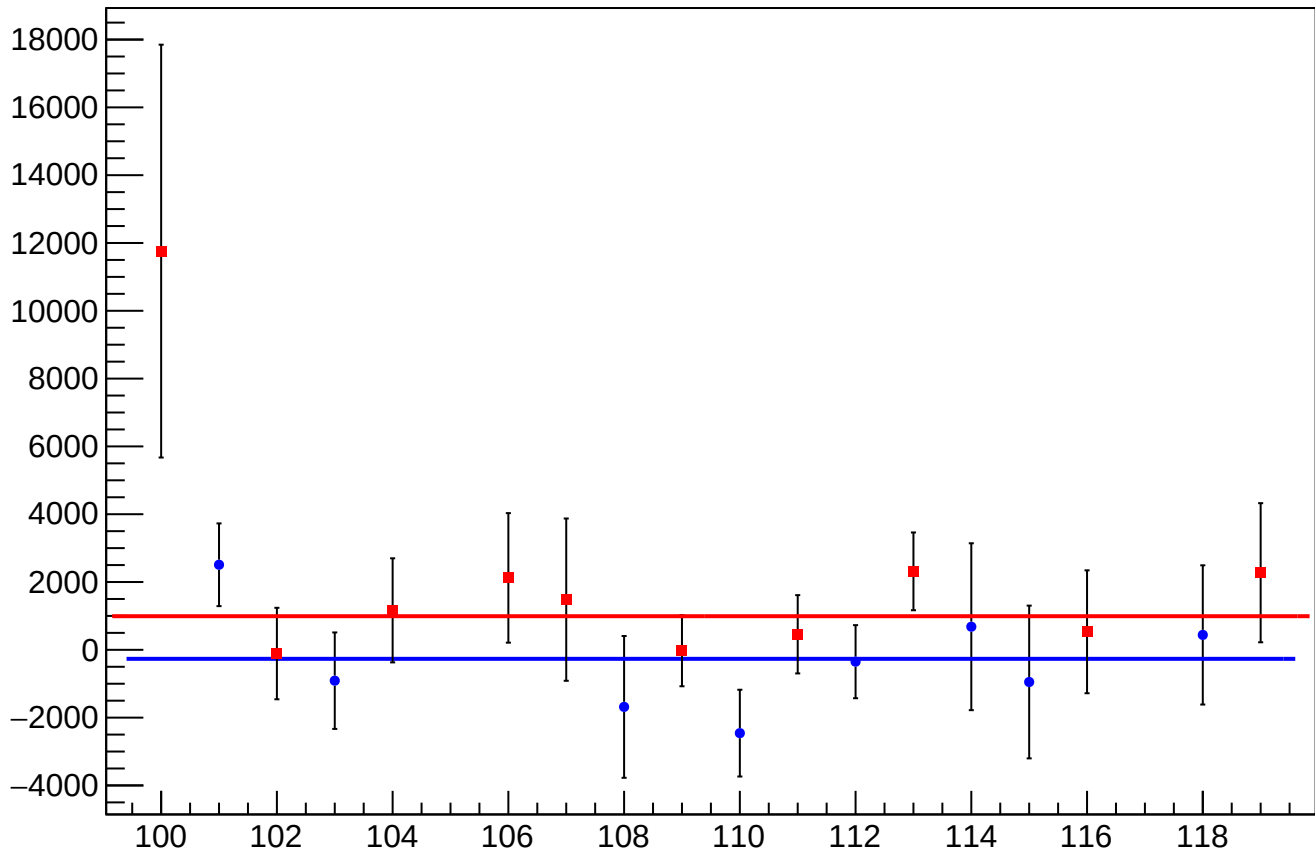
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 897.729+/-0.239  $\chi^2/\text{NDF}$ : 759105.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_mean vs Slug



Right In: -265.657+/-537.173  $\chi^2/\text{NDF}$ : 9.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 992.009+/-476.255  $\chi^2/\text{NDF}$ : 7.1/9

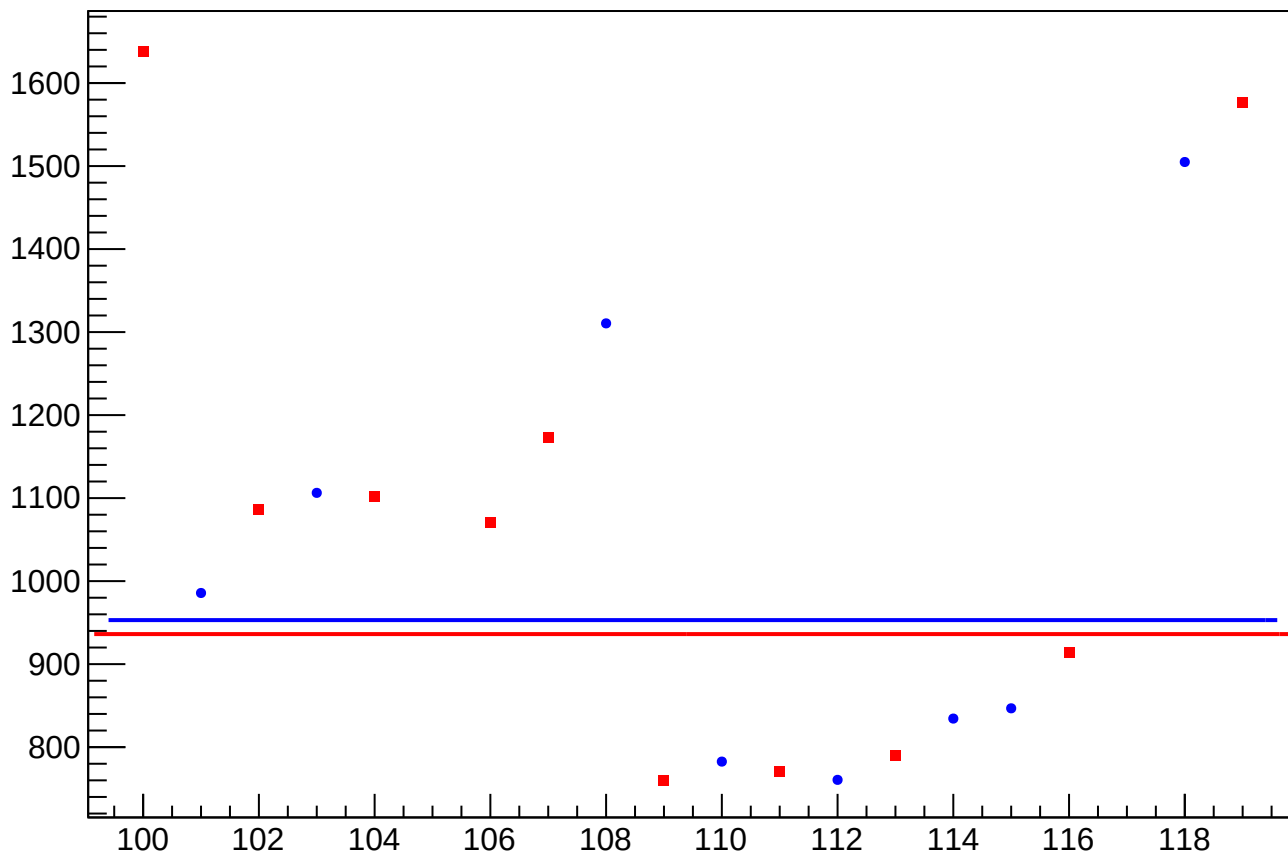
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 438.504+/-356.363  $\chi^2/\text{NDF}$ : 19.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_rms vs Slug



Right In: 953.038+/-0.380  $\chi^2/\text{NDF}$ : 335903.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 936.196+/-0.337  $\chi^2/\text{NDF}$ : 429554.0/9

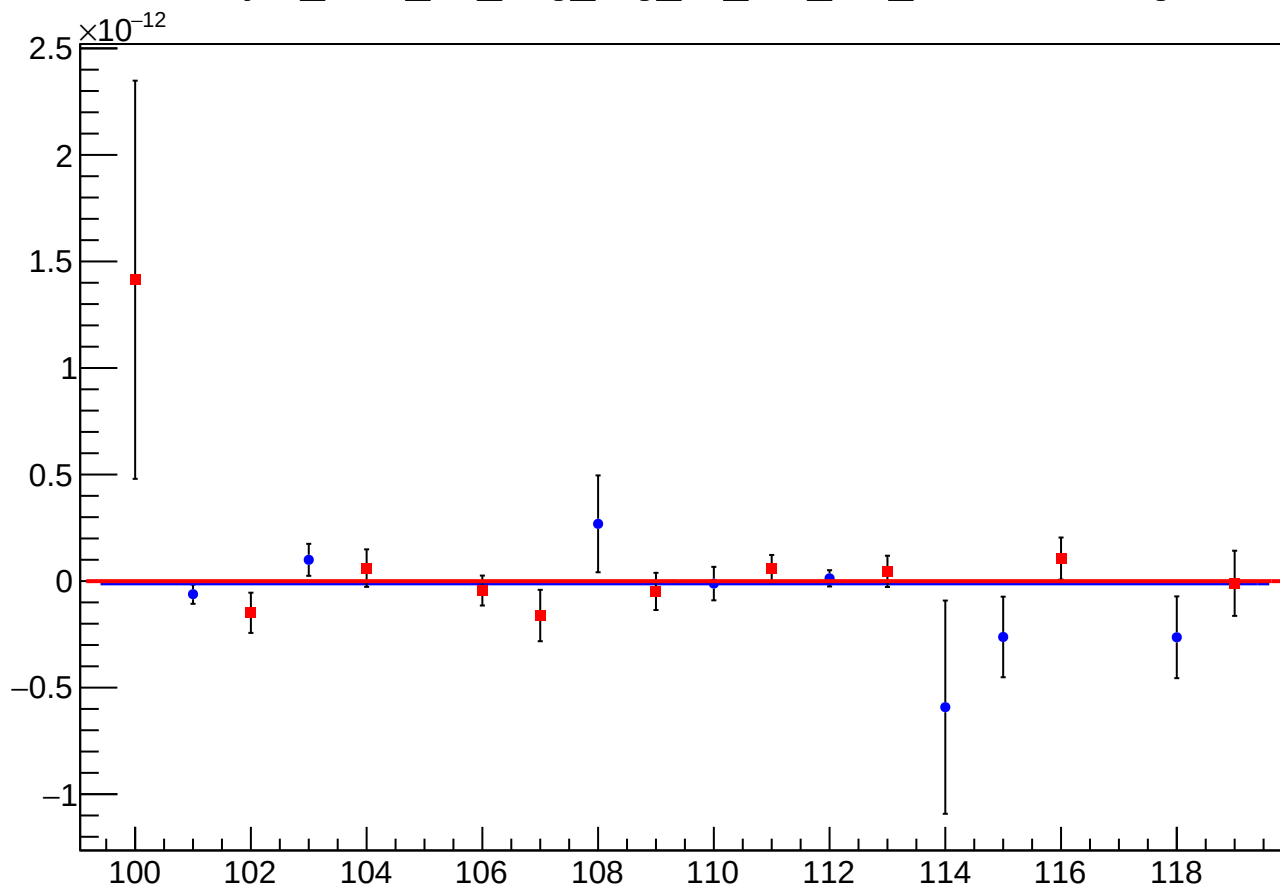
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 943.608+/-0.252  $\chi^2/\text{NDF}$ : 766557.8/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 10.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.2/9

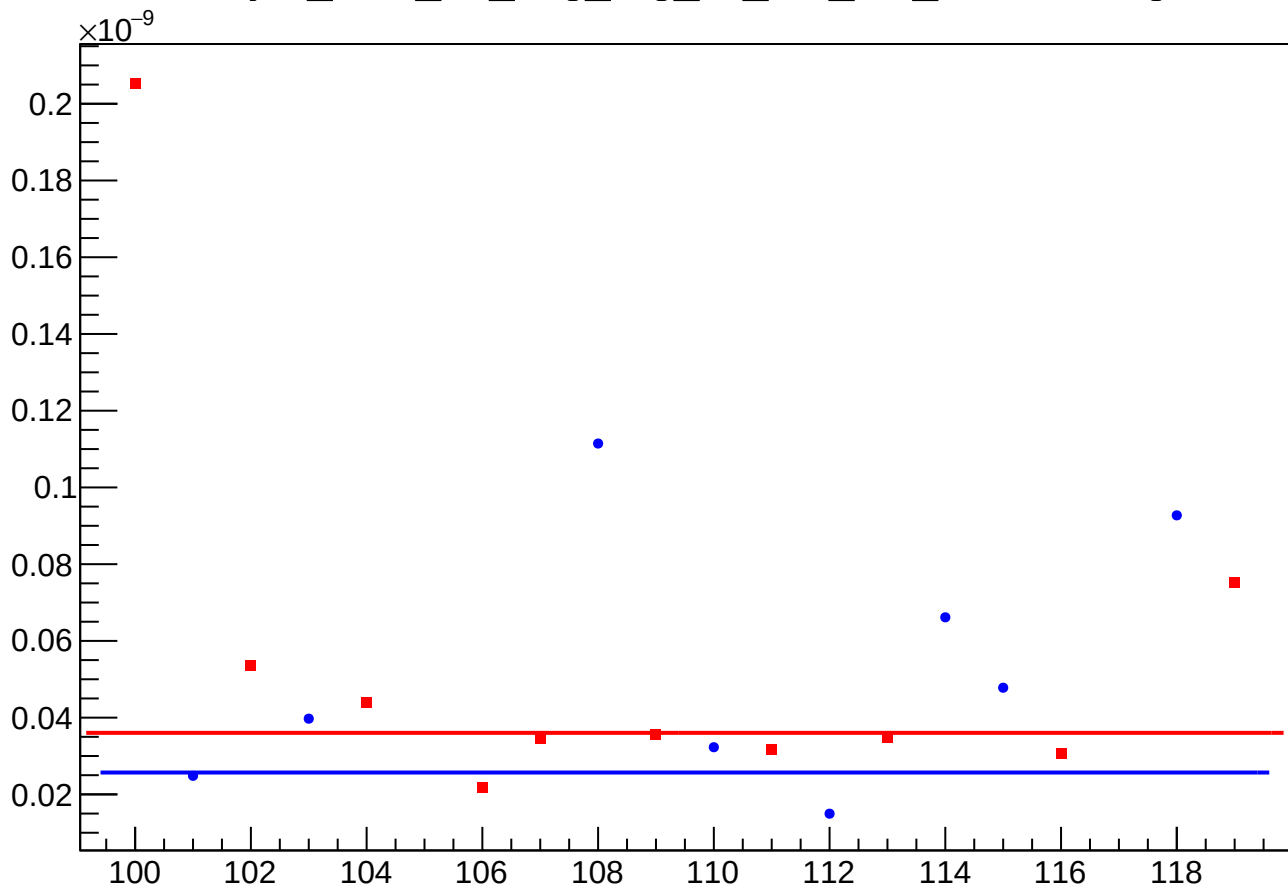
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 20.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 812466.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 380409.7/9

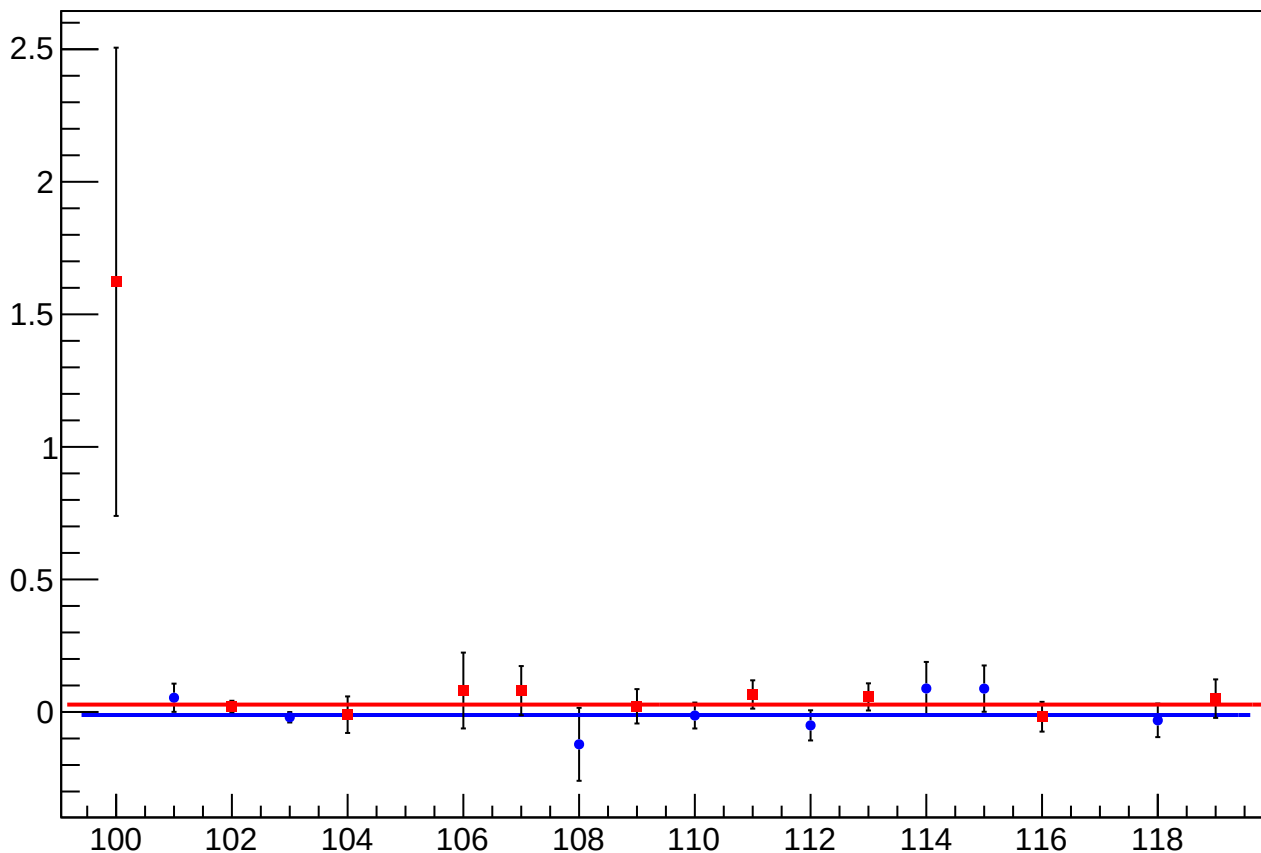
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1340868.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.011 $\pm$ 0.015  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.028 $\pm$ 0.016  $\chi^2$ /NDF: 5.7/9

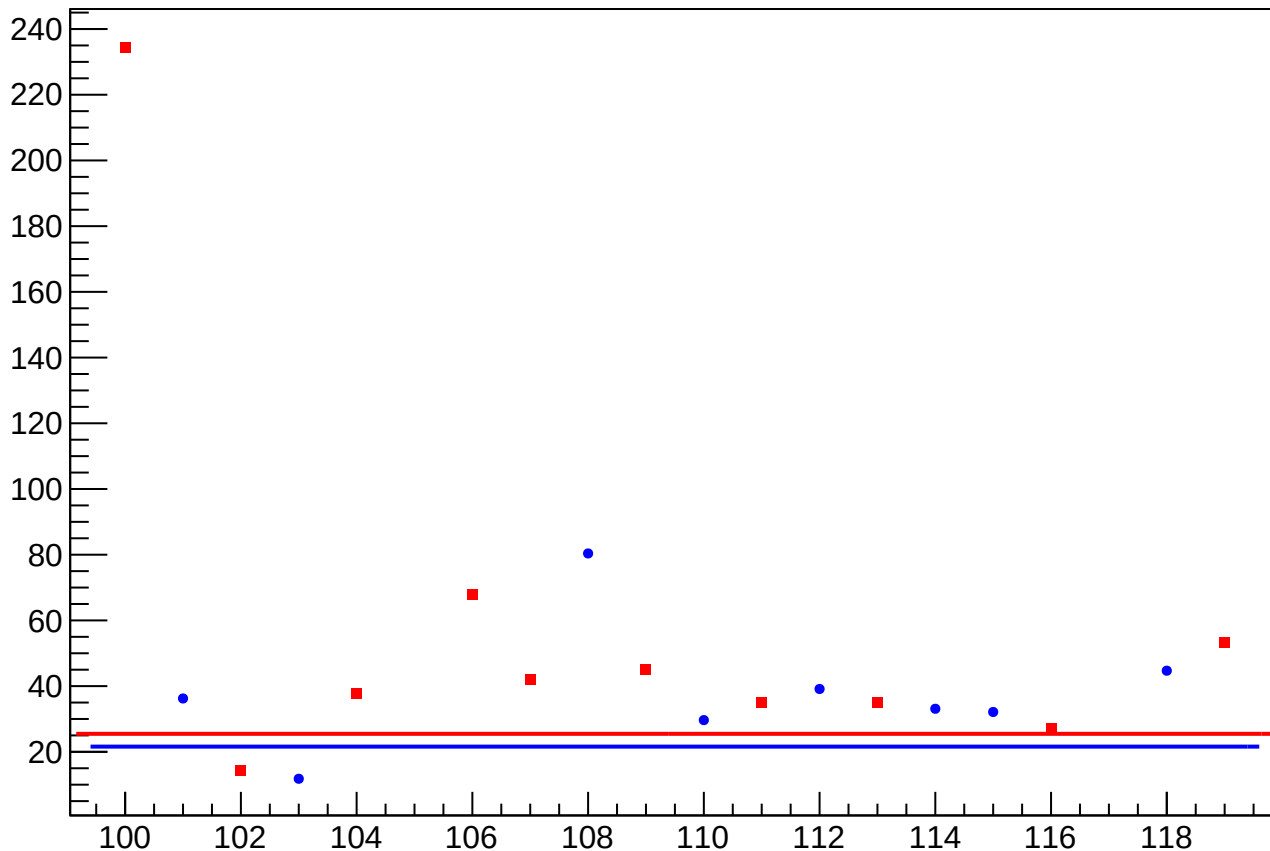
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.011  $\chi^2$ /NDF: 14.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 21.588 $\pm$ 0.011  $\chi^2$ /NDF: 1579354.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 25.481 $\pm$ 0.011  $\chi^2$ /NDF: 1568015.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

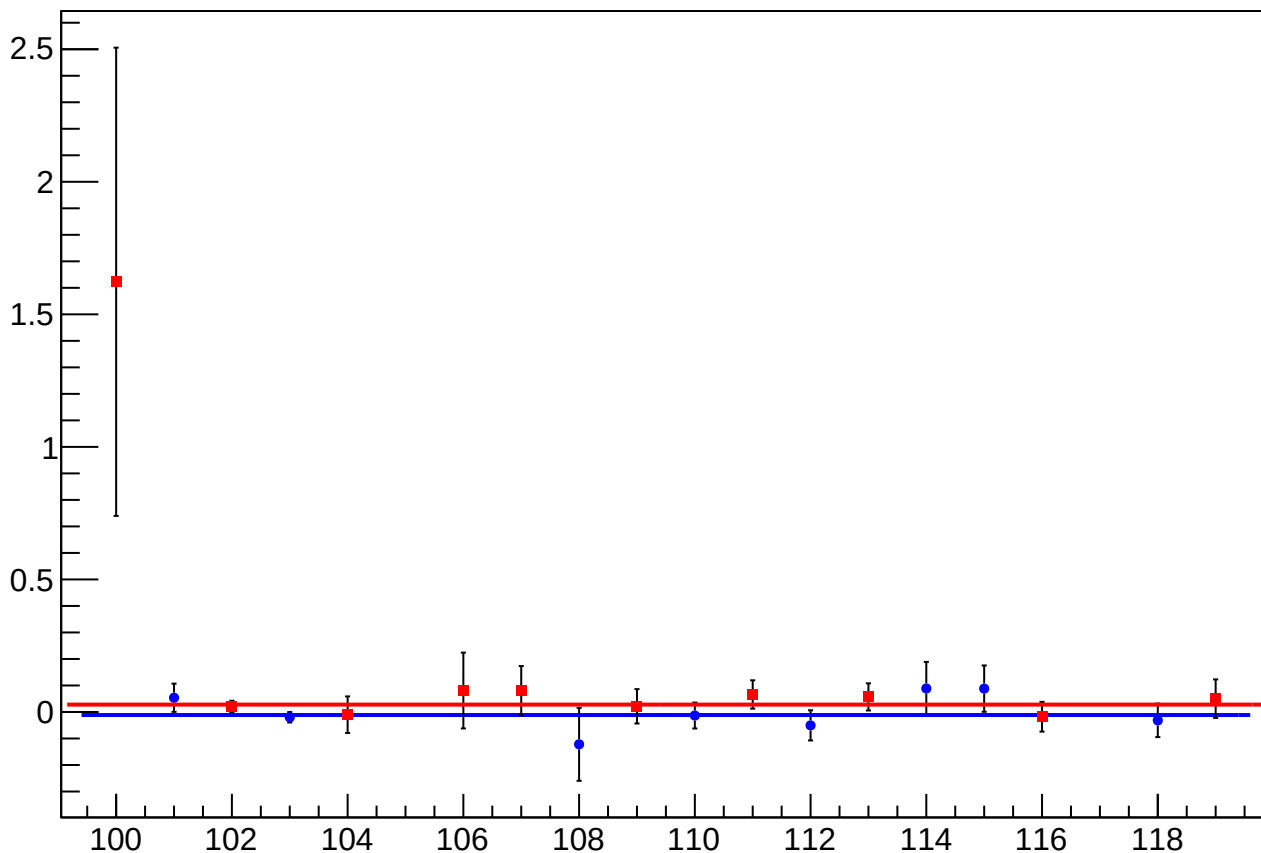
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.488 $\pm$ 0.008  $\chi^2$ /NDF: 3209591.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.011 $\pm$ 0.015  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.028 $\pm$ 0.016  $\chi^2$ /NDF: 5.7/9

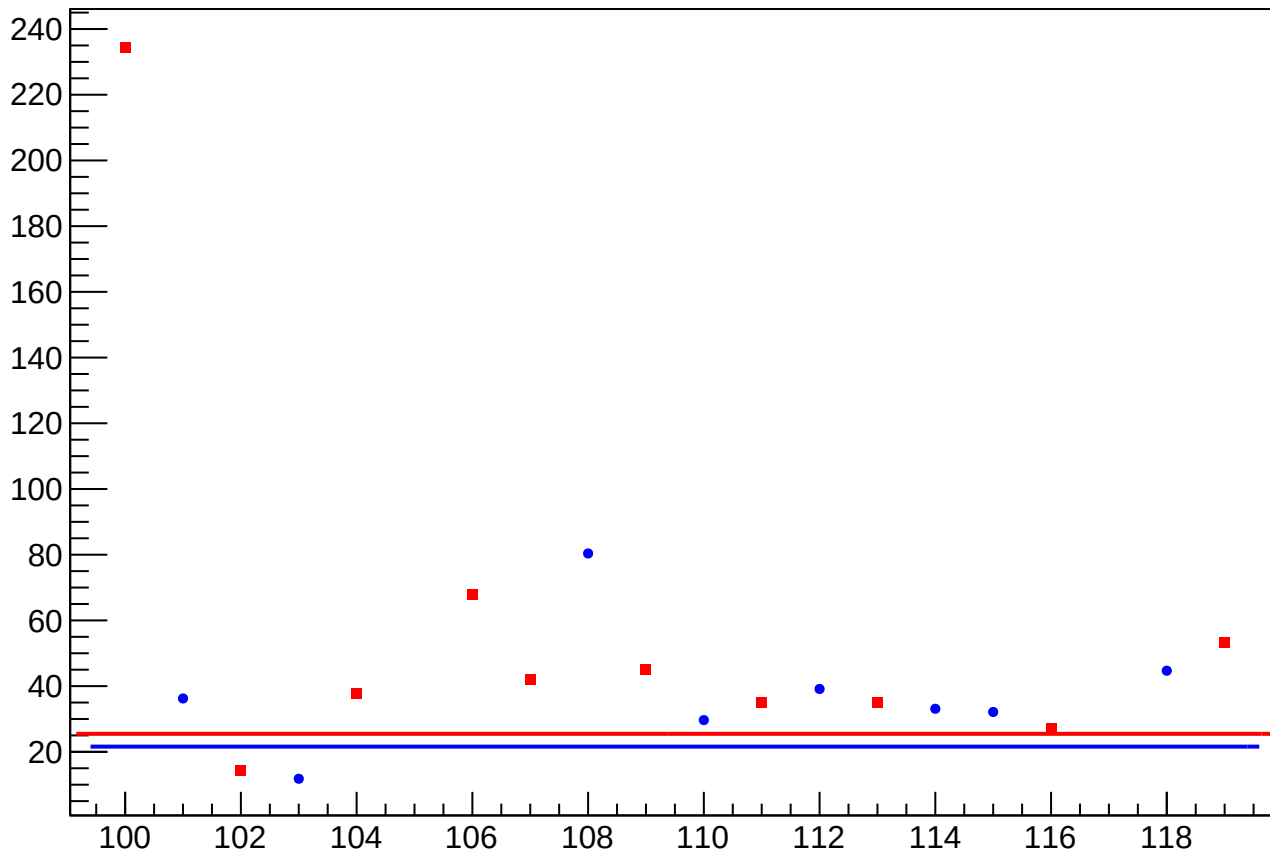
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.011  $\chi^2$ /NDF: 14.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 21.588 $\pm$ 0.011  $\chi^2$ /NDF: 1579354.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 25.481 $\pm$ 0.011  $\chi^2$ /NDF: 1568015.4/9

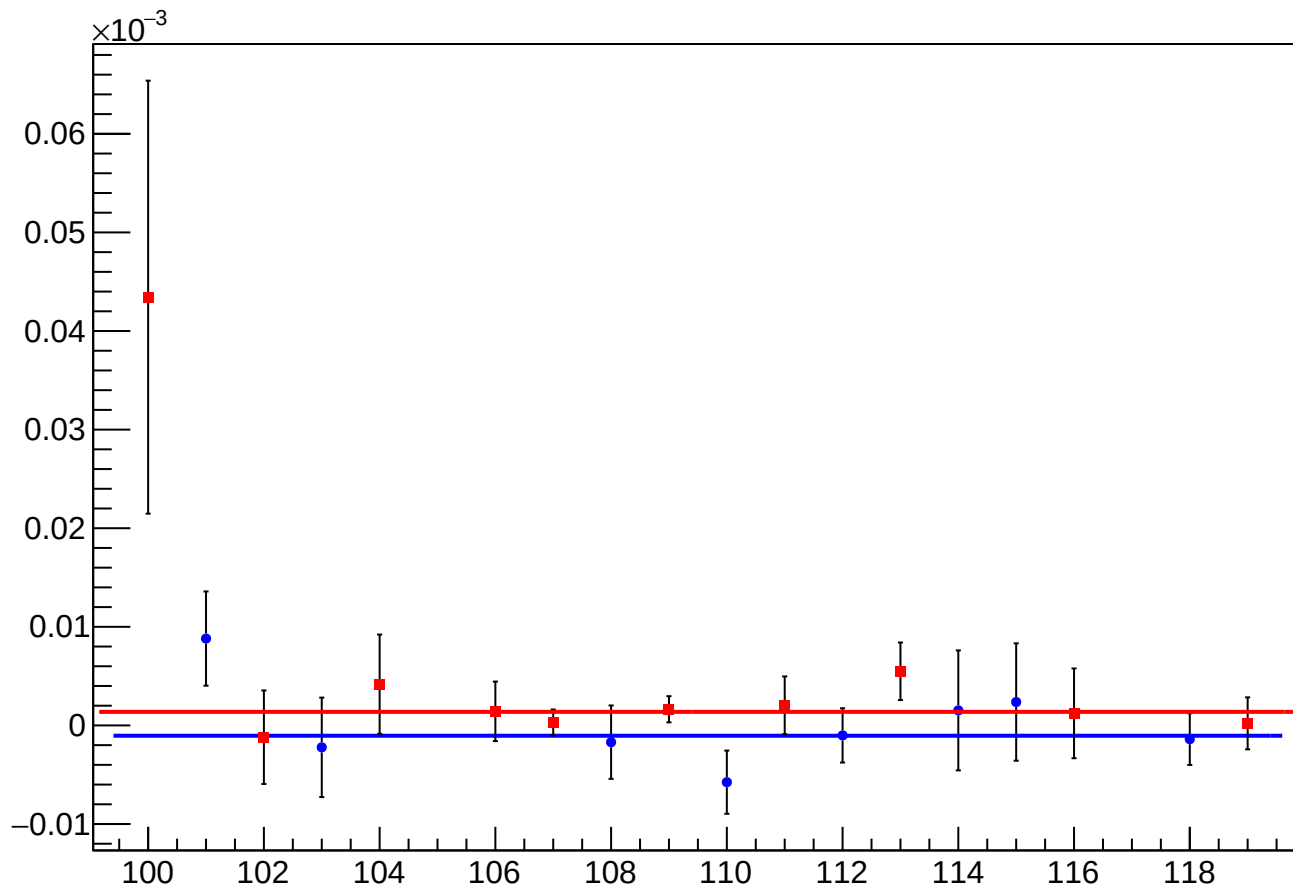
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.488 $\pm$ 0.008  $\chi^2$ /NDF: 3209591.9/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 7.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.2/9

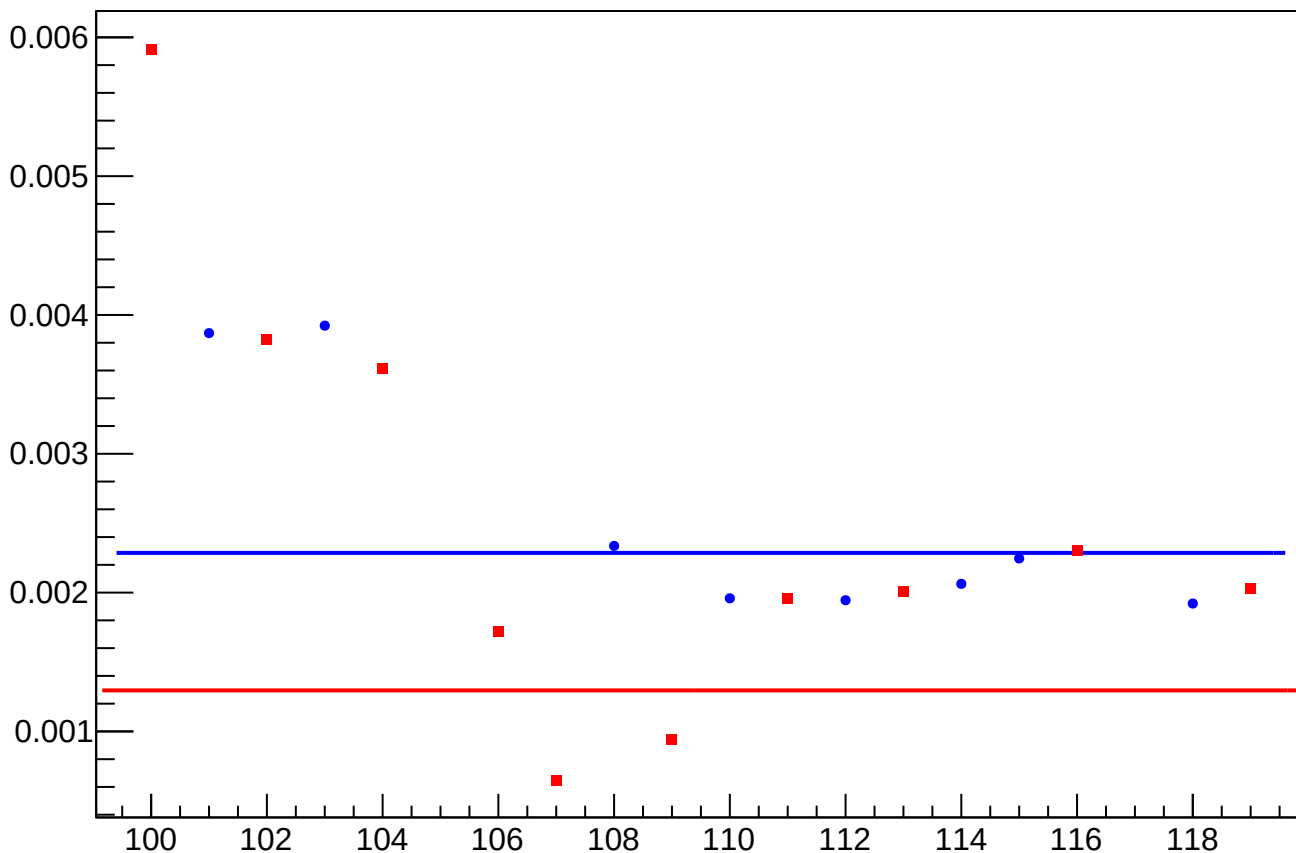
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 523730.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 2224609.6/9

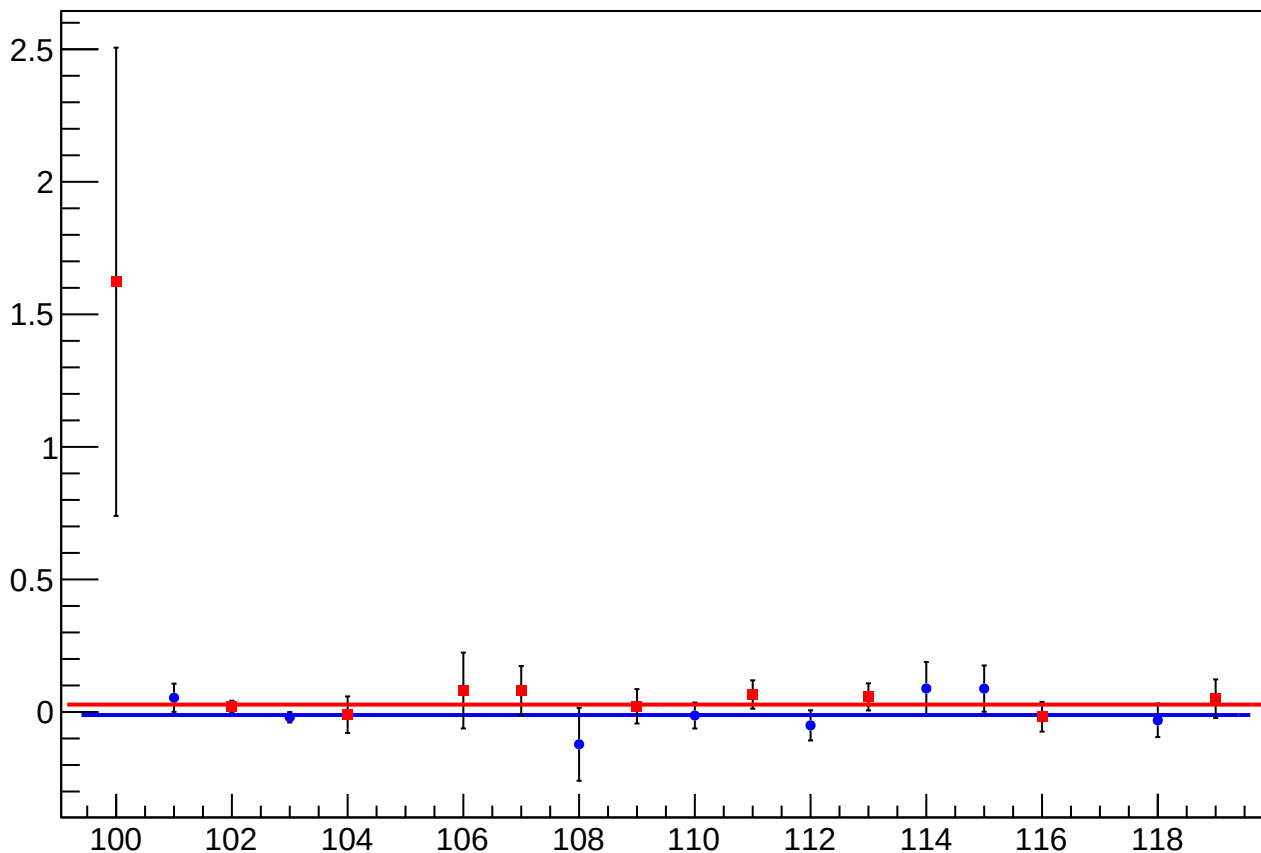
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 3611715.7/17

- 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: -0.011 $\pm$ 0.015  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.028 $\pm$ 0.016  $\chi^2$ /NDF: 5.7/9

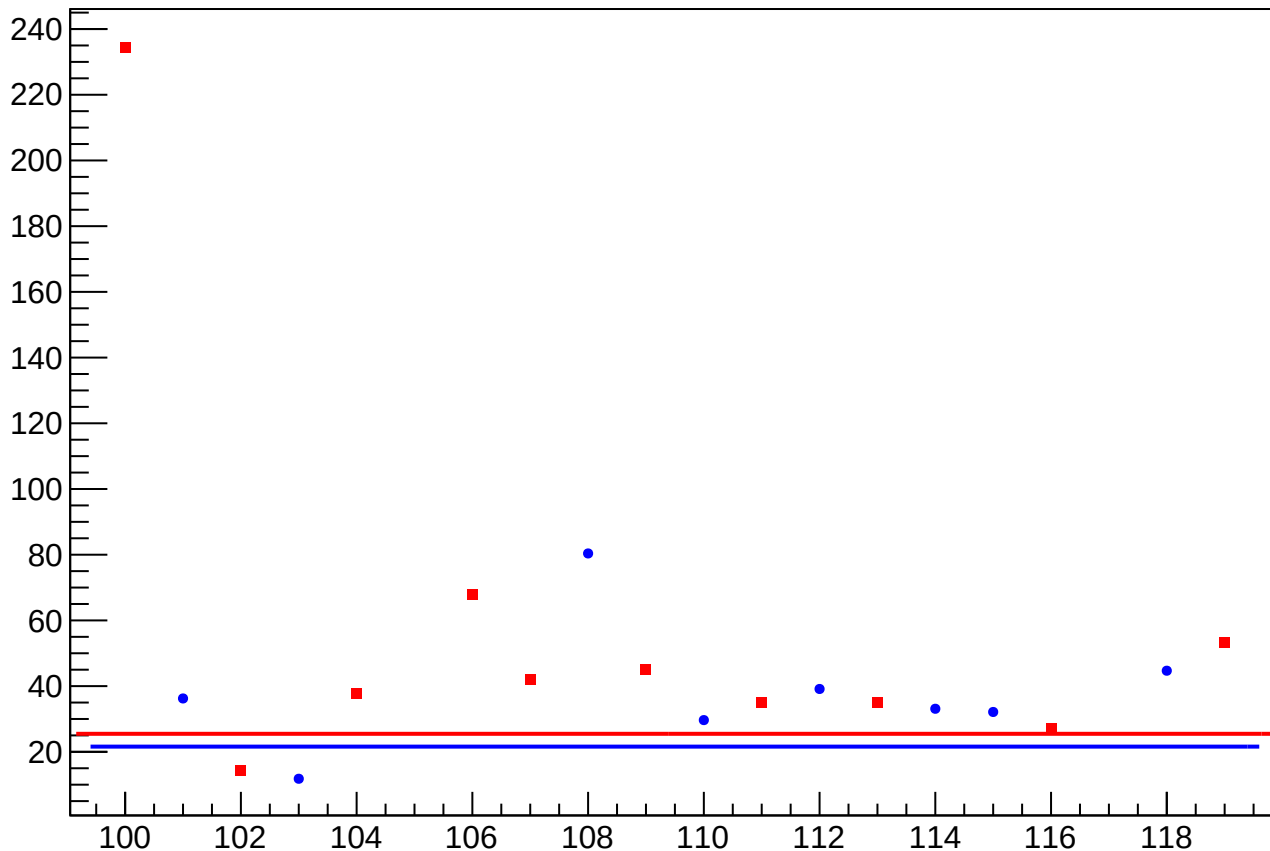
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.011  $\chi^2$ /NDF: 14.1/17

- 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: 21.587 $\pm$ 0.011  $\chi^2$ /NDF: 1579571.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 25.485 $\pm$ 0.011  $\chi^2$ /NDF: 1567609.5/9

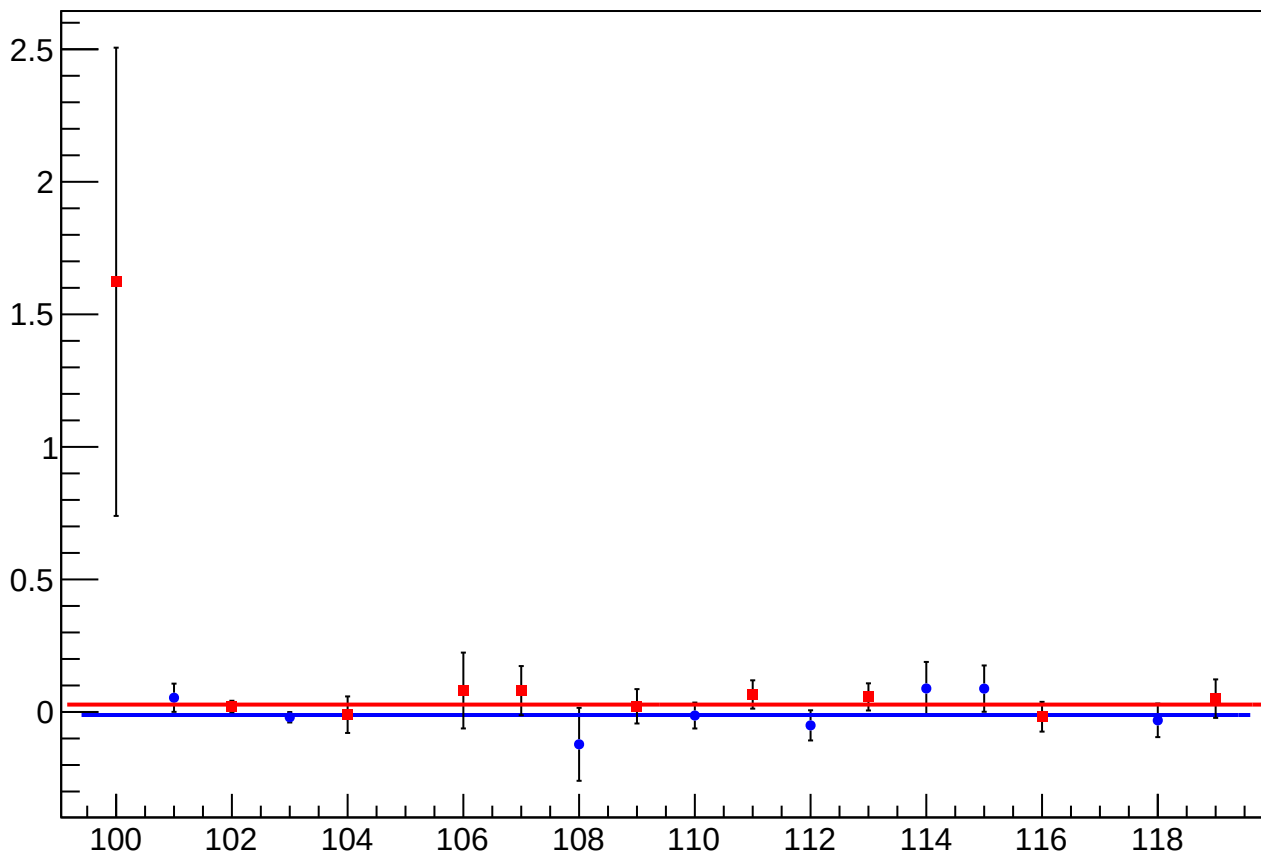
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.489 $\pm$ 0.008  $\chi^2$ /NDF: 3209547.0/17

- 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: -0.011 $\pm$ 0.015  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.028 $\pm$ 0.016  $\chi^2$ /NDF: 5.7/9

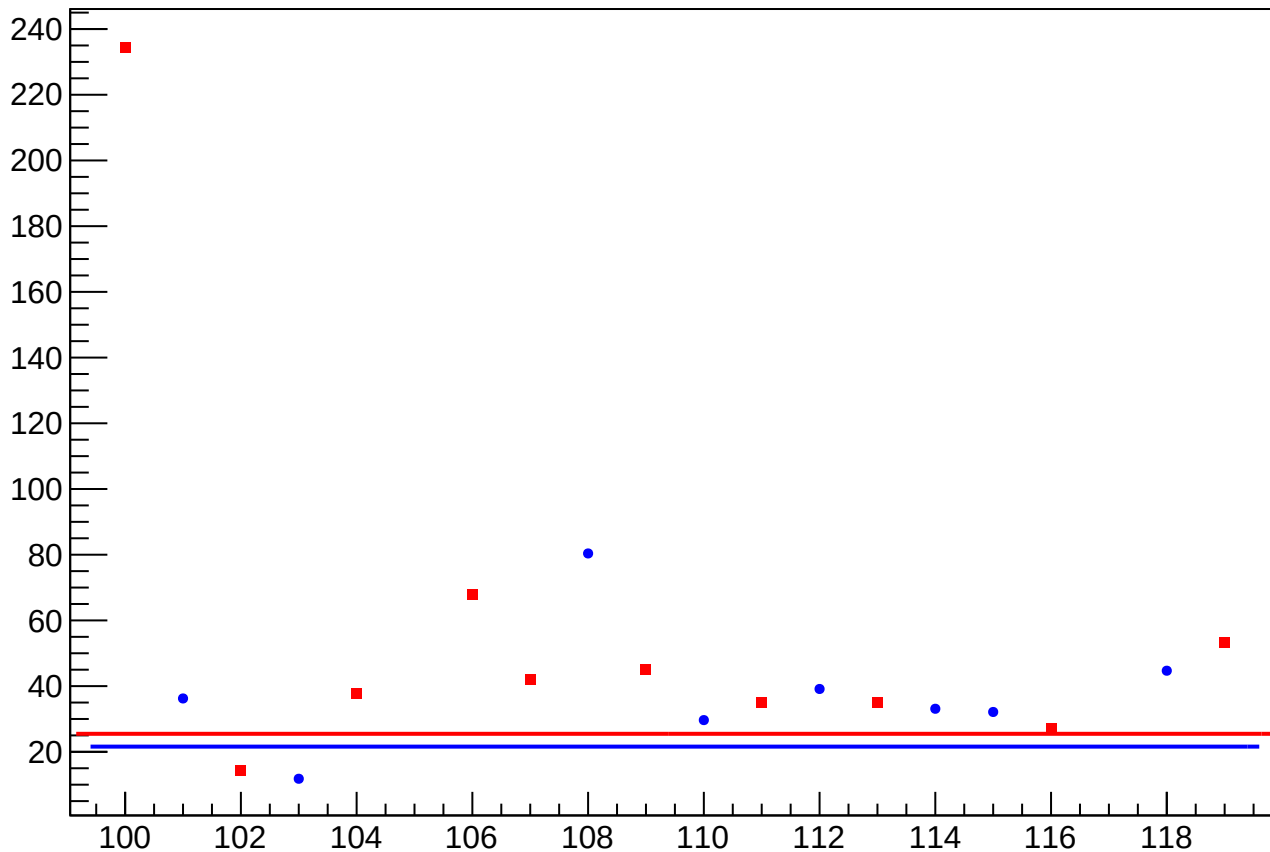
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.011  $\chi^2$ /NDF: 14.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 21.587+/-0.011  $\chi^2/\text{NDF}$ : 1579571.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.485+/-0.011  $\chi^2/\text{NDF}$ : 1567609.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

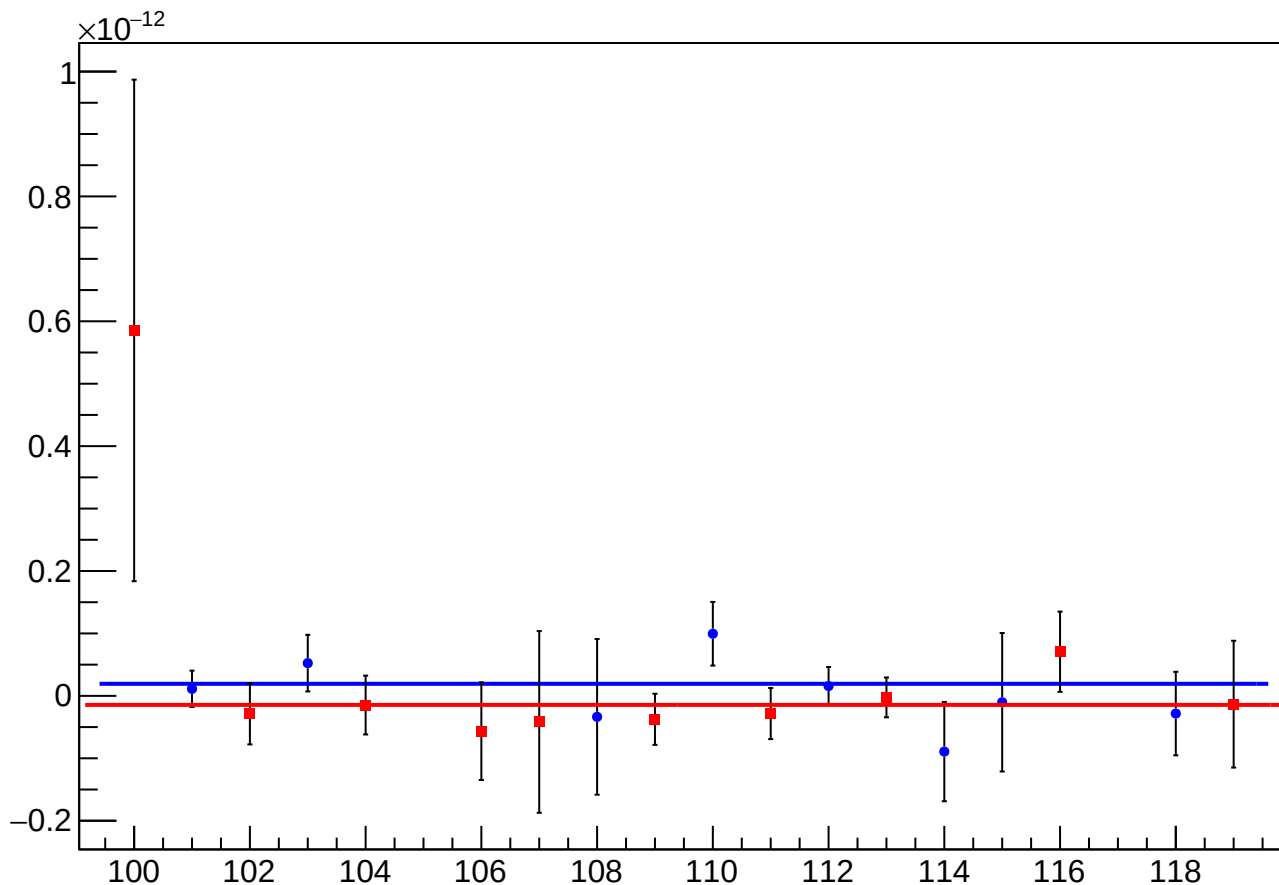
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.489+/-0.008  $\chi^2/\text{NDF}$ : 3209547.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.0/9

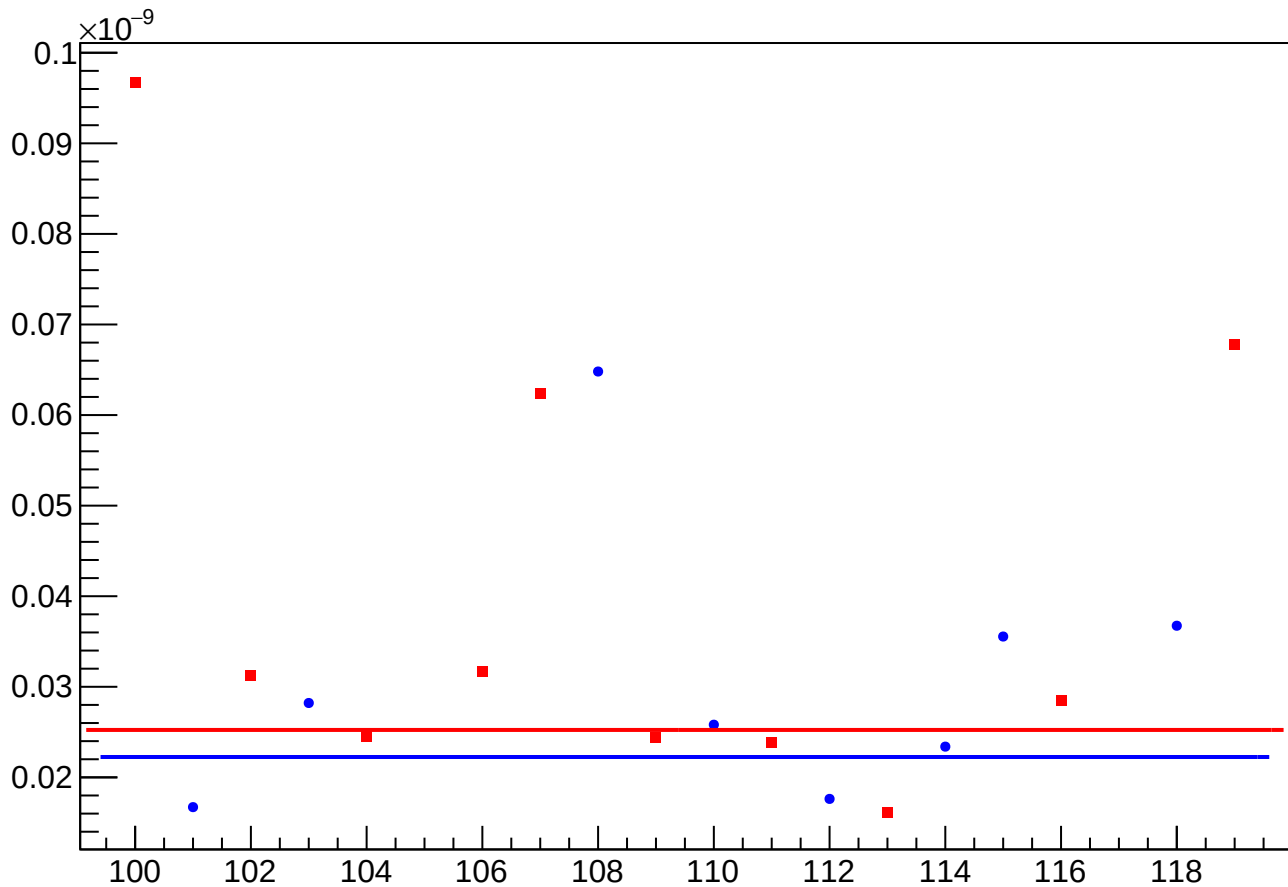
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.8/17

- 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  $\chi^2/\text{NDF}$ : 518854.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 760286.4/9

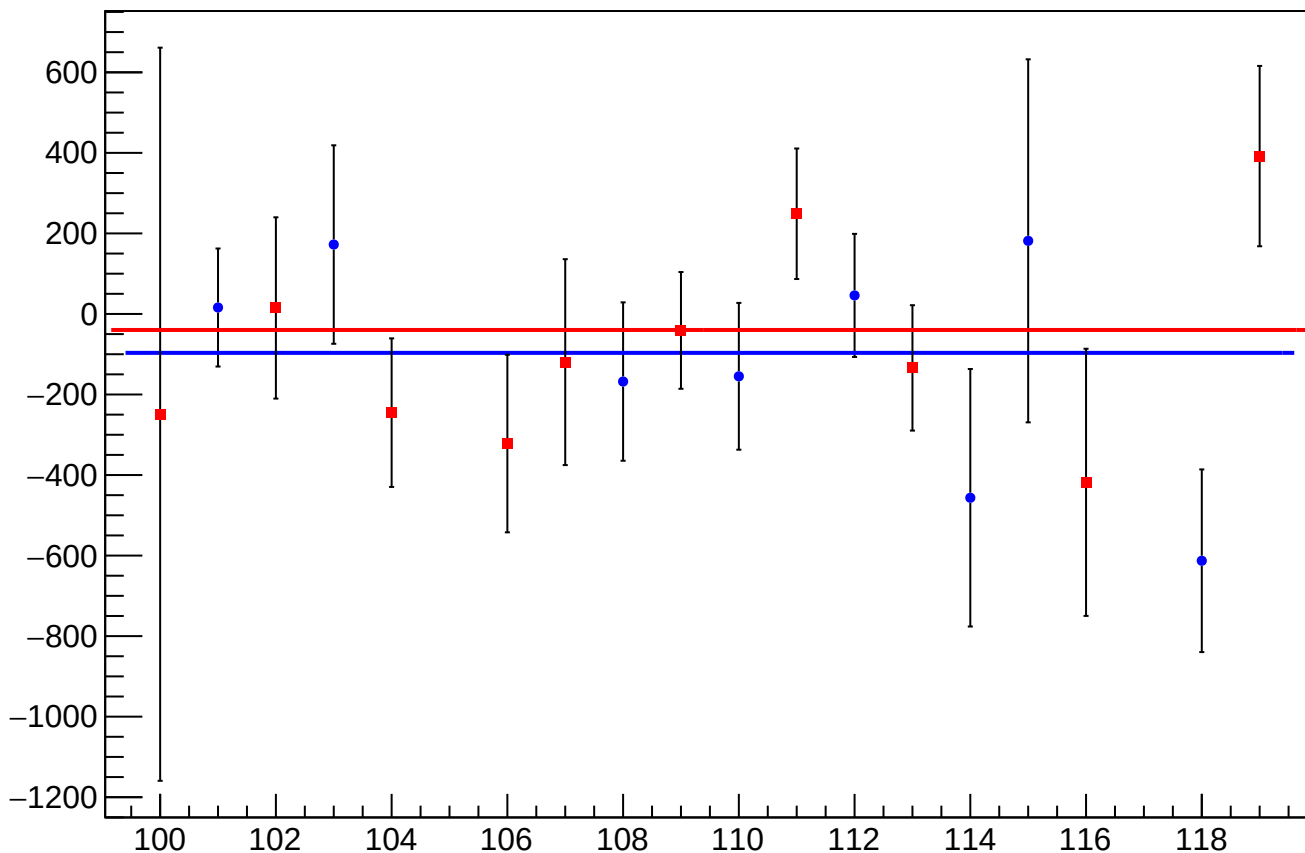
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1311492.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_avg\_mean vs Slug



Right In: -96.612 $\pm$ 71.440  $\chi^2$ /NDF: 9.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -39.778 $\pm$ 64.264  $\chi^2$ /NDF: 11.6/9

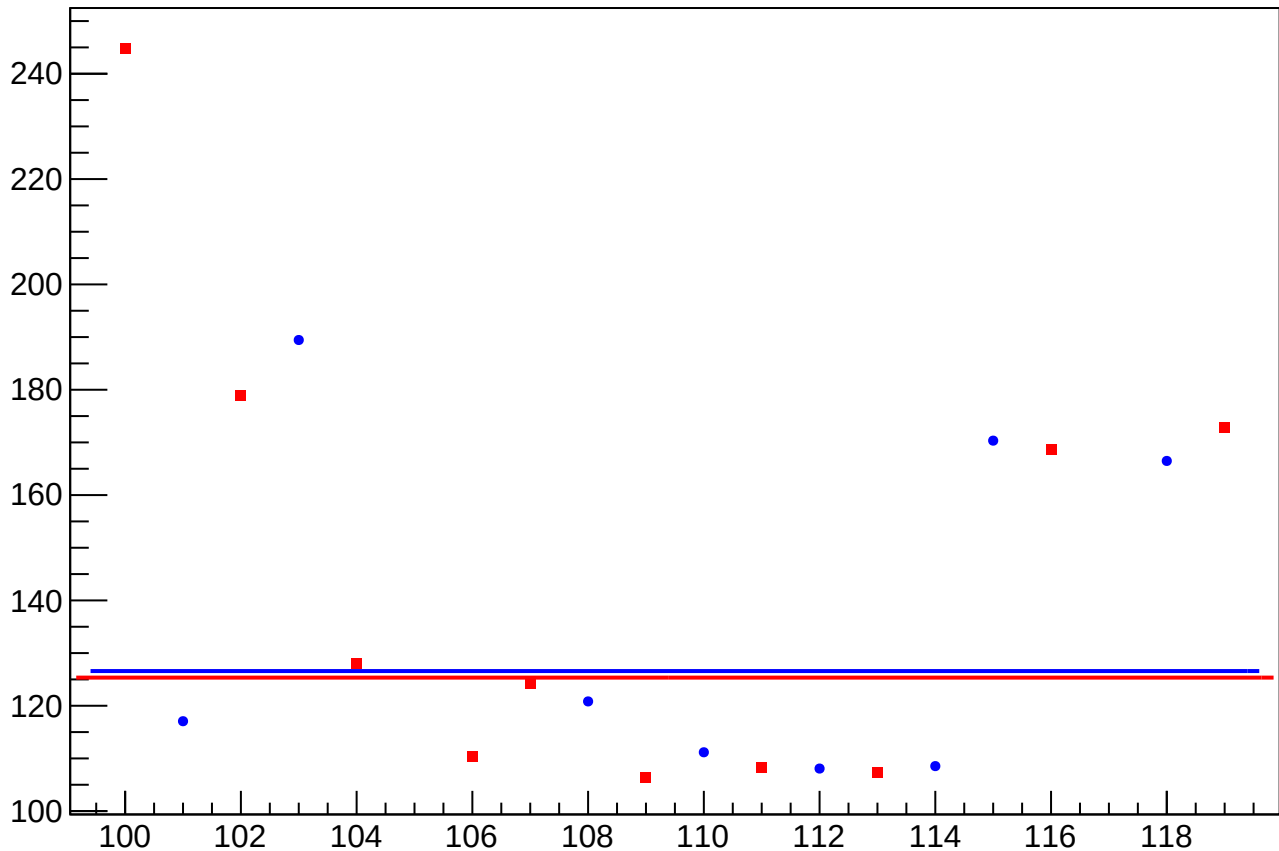
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -65.198 $\pm$ 47.778  $\chi^2$ /NDF: 21.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 126.588 $\pm$ 0.051  $\chi^2$ /NDF: 271014.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.344 $\pm$ 0.045  $\chi^2$ /NDF: 364546.3/9

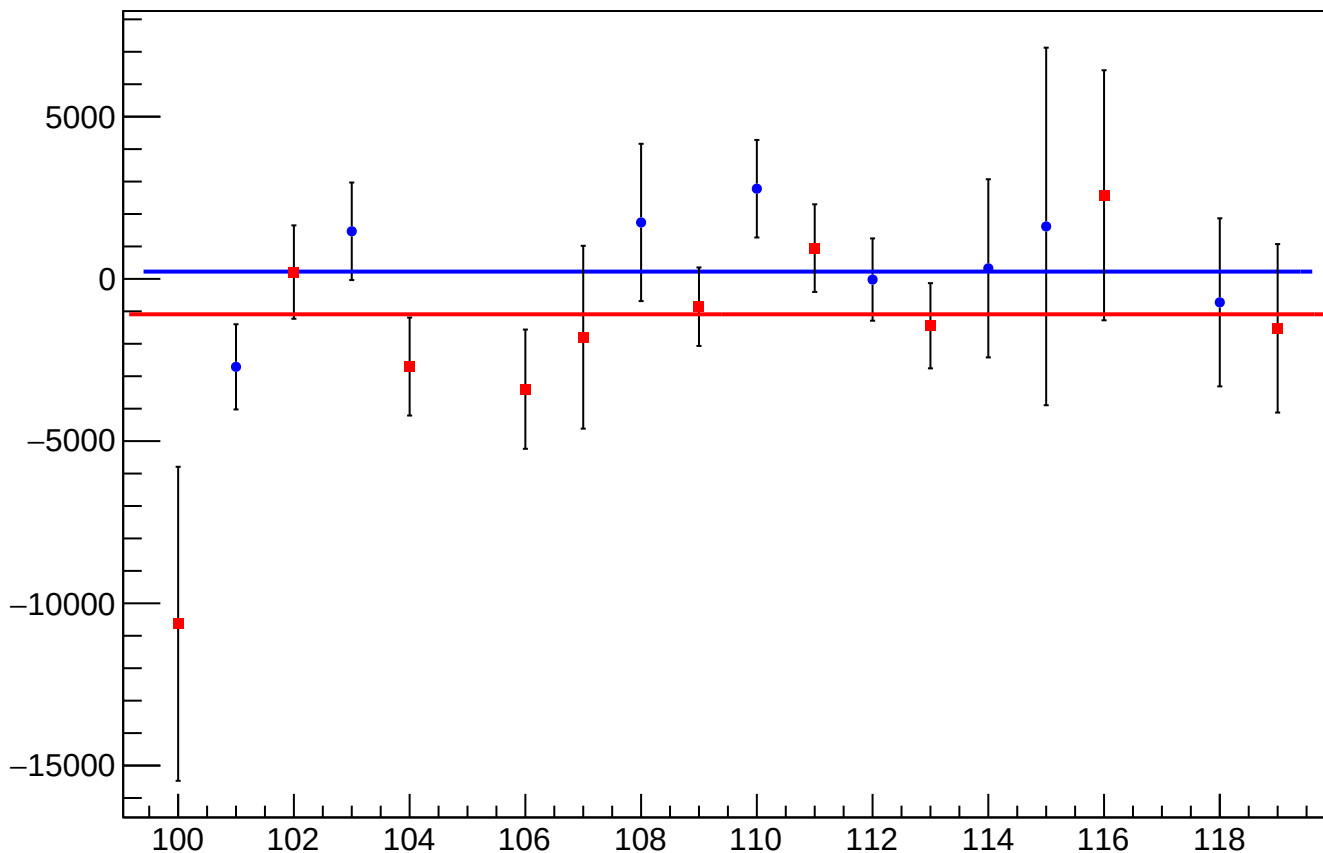
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 125.900 $\pm$ 0.034  $\chi^2$ /NDF: 635896.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_reg\_correction\_mean vs Slug



Right In: 224.799+/-623.538  $\chi^2/\text{NDF}$ : 9.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1091.493+/-541.273  $\chi^2/\text{NDF}$ : 10.8/9

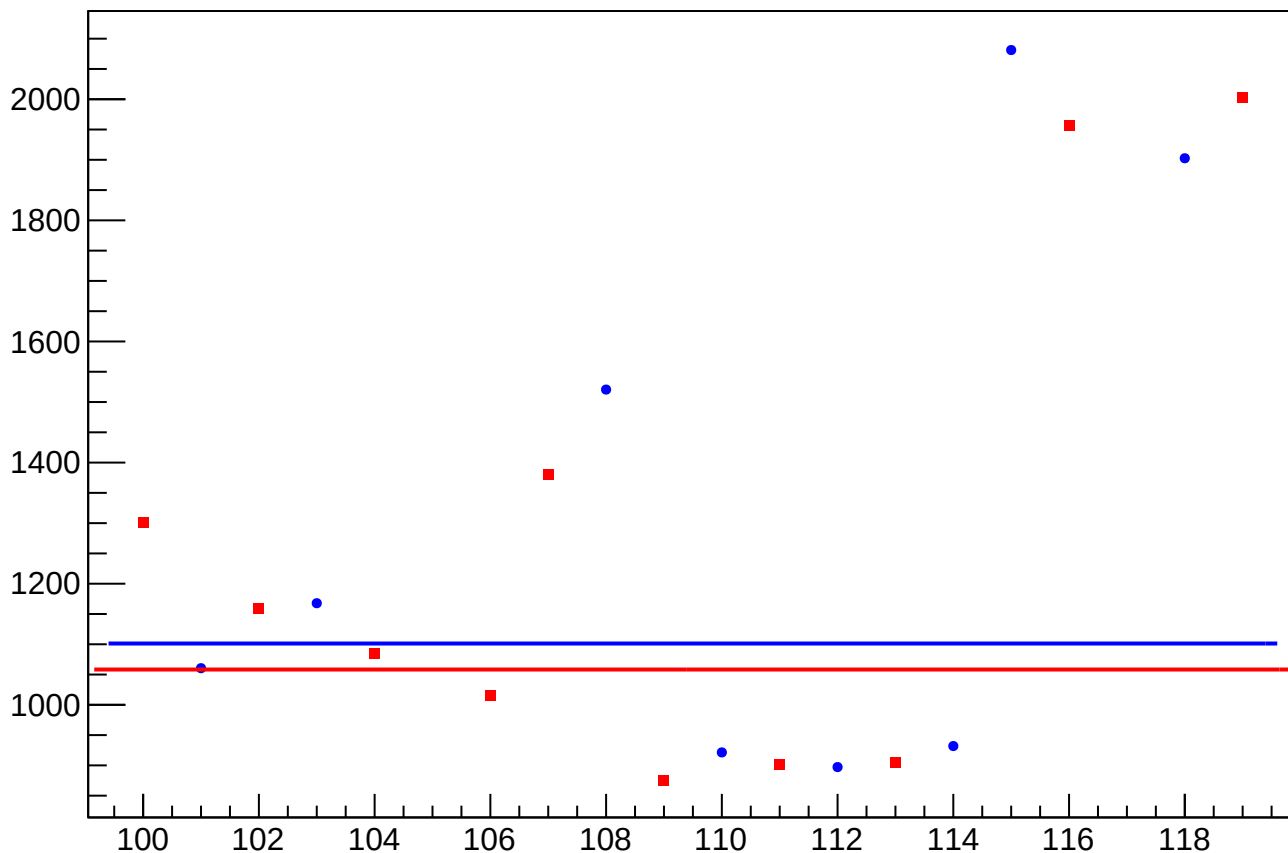
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -525.849+/-408.750  $\chi^2/\text{NDF}$ : 22.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_avg\_reg\_correction\_rms vs Slug



Right In: 1101.242 $\pm$ 0.441  $\chi^2$ /NDF: 408387.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1058.304 $\pm$ 0.383  $\chi^2$ /NDF: 516265.7/9

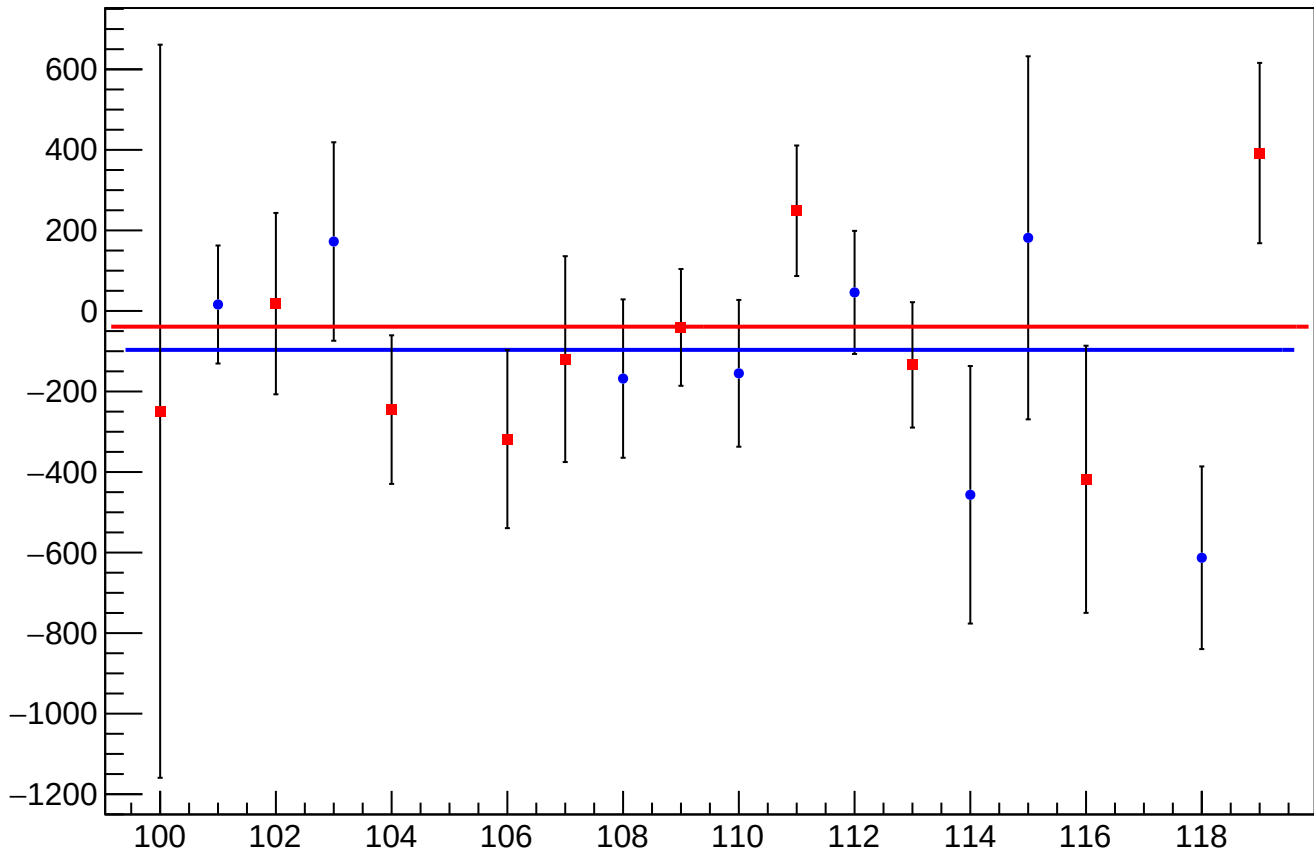
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1076.756 $\pm$ 0.289  $\chi^2$ /NDF: 930061.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_48\_avg\_mean vs Slug



Right In:  $-96.637 \pm 71.440$   $\chi^2/\text{NDF}$ : 9.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-39.036 \pm 64.283$   $\chi^2/\text{NDF}$ : 11.6/9

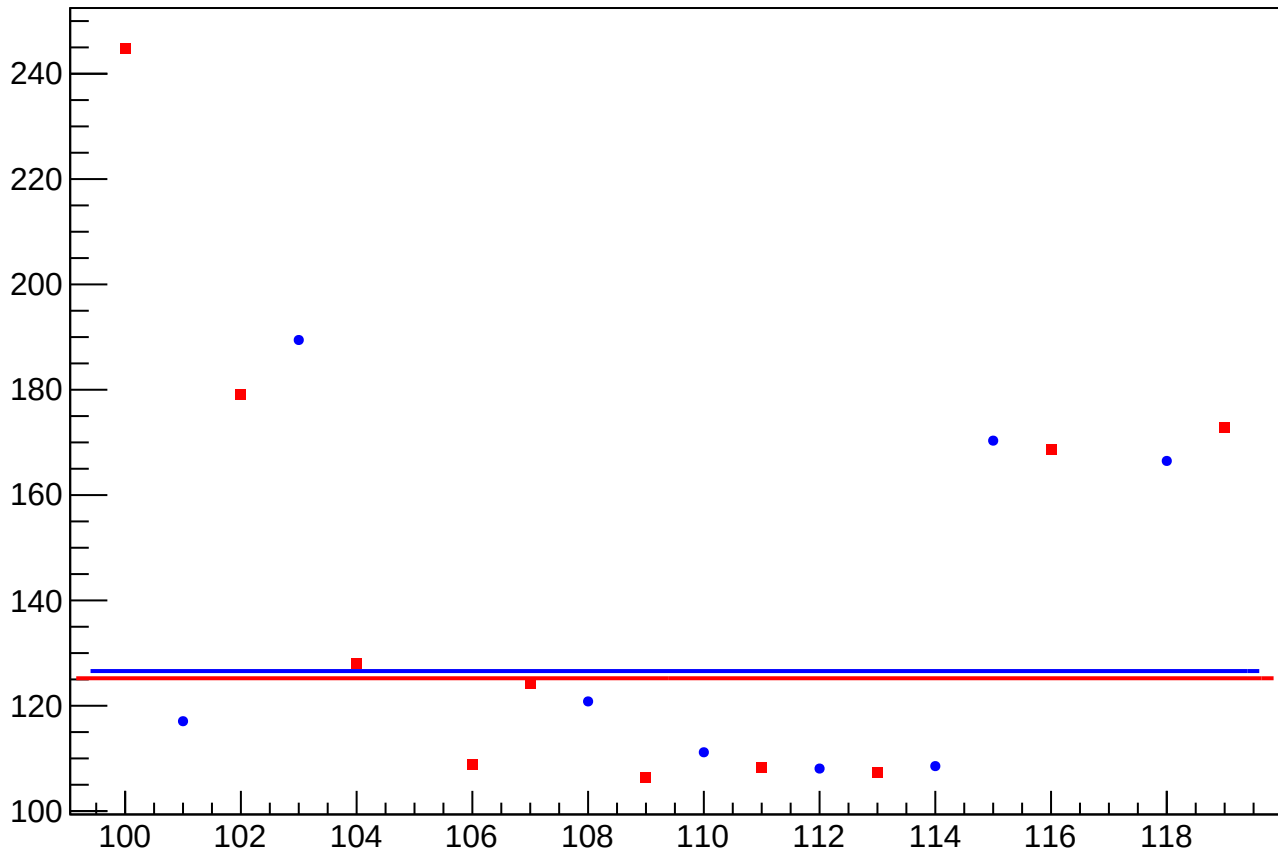
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-64.808 \pm 47.786$   $\chi^2/\text{NDF}$ : 21.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 126.588 $\pm$ 0.051  $\chi^2$ /NDF: 271017.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.219 $\pm$ 0.045  $\chi^2$ /NDF: 366767.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

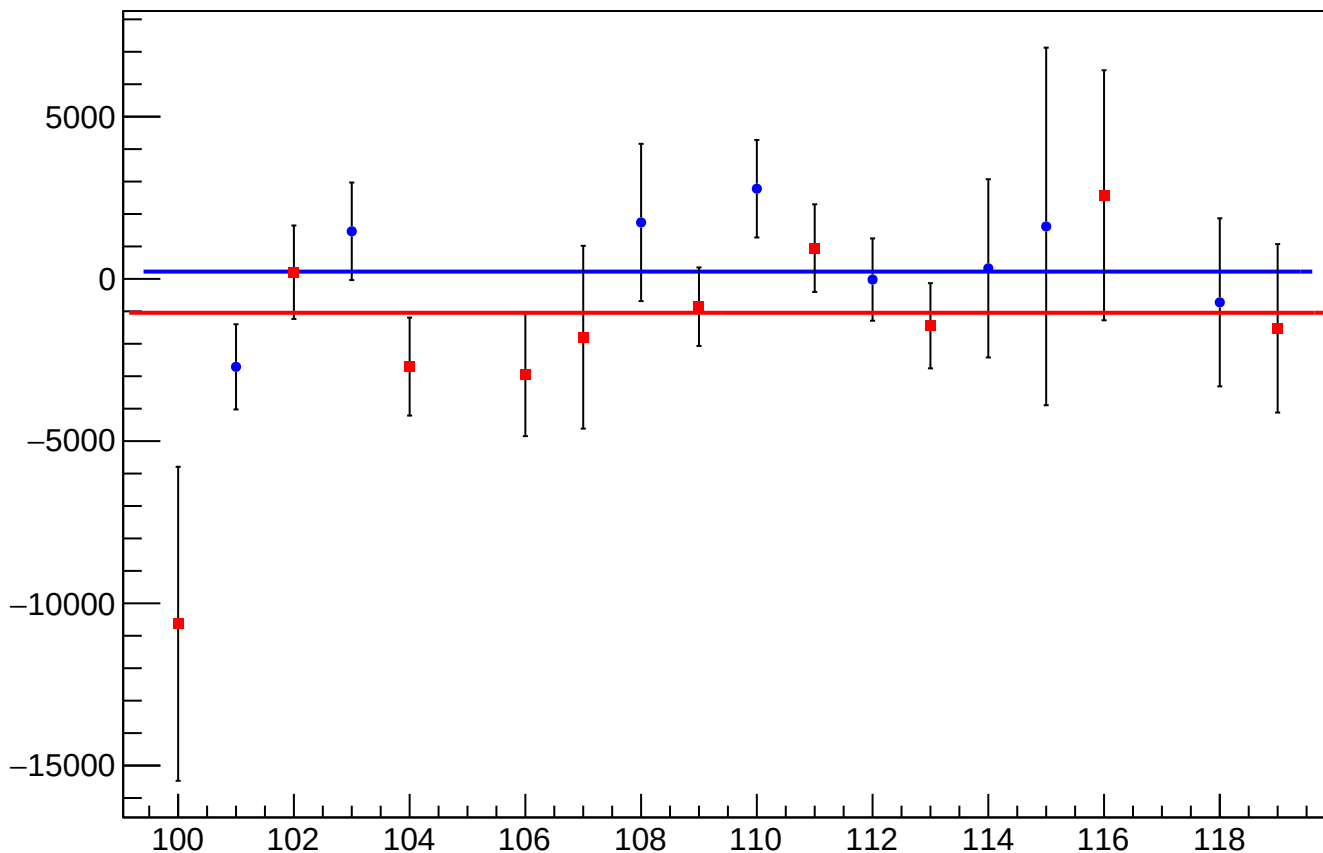
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 125.832 $\pm$ 0.034  $\chi^2$ /NDF: 638191.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_48\_avg\_cor\_correction\_mean vs Slug



Right In: 224.694 $\pm$ 623.547  $\chi^2$ /NDF: 9.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1044.111 $\pm$ 542.699  $\chi^2$ /NDF: 10.2/9

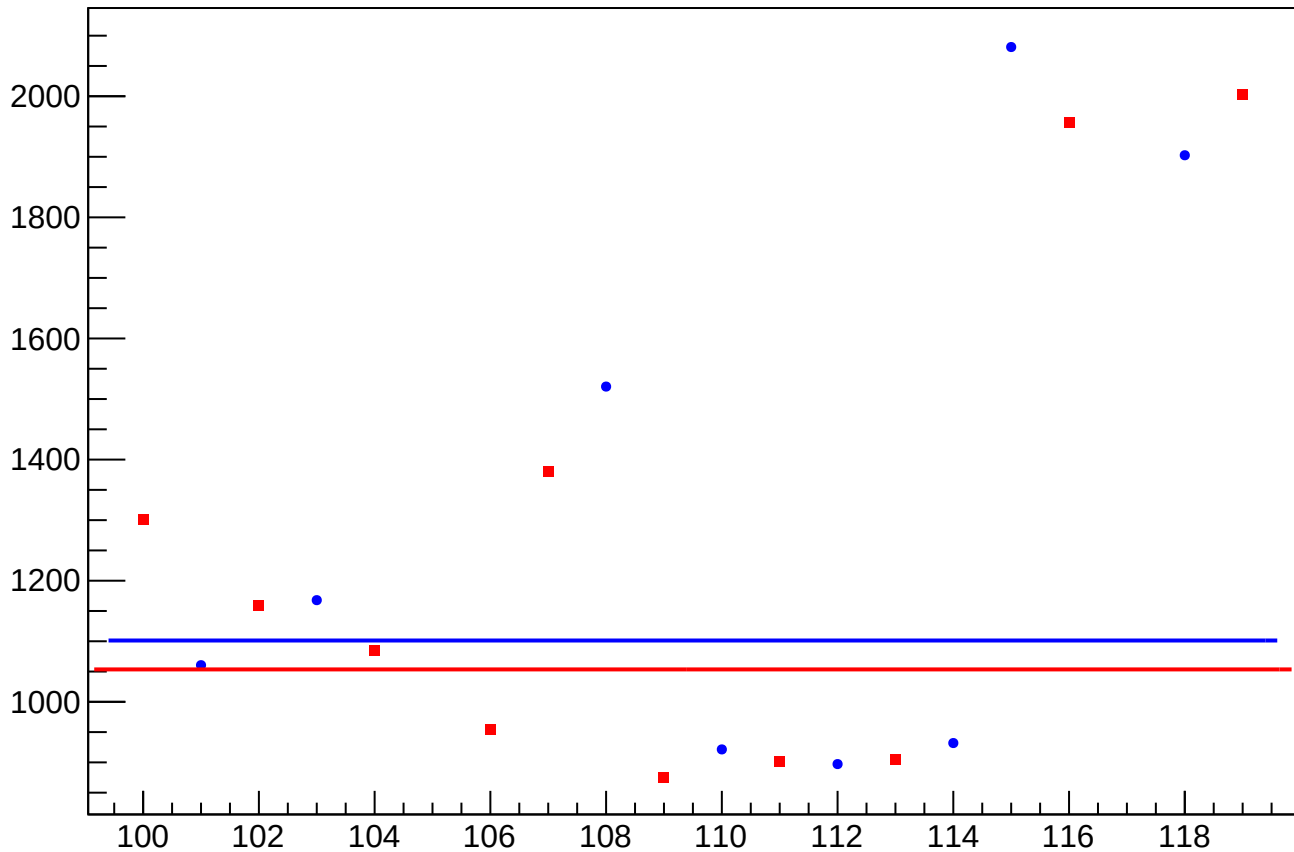
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -497.245 $\pm$ 409.366  $\chi^2$ /NDF: 21.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_avg\_cor\_correction\_rms vs Slug



Right In: 1101.258+/-0.441  $\chi^2/\text{NDF}$ : 408397.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1053.516+/-0.384  $\chi^2/\text{NDF}$ : 521211.0/9

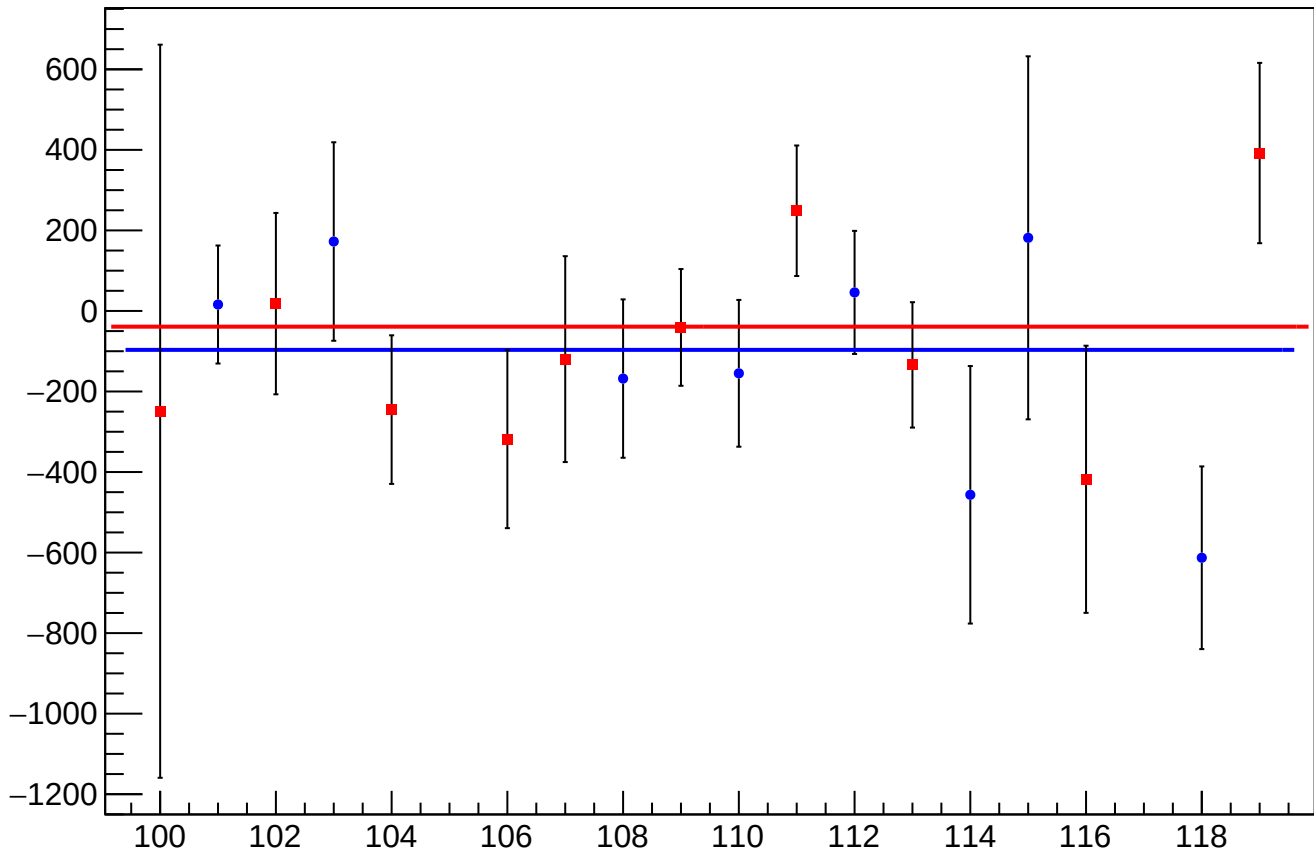
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1074.093+/-0.289  $\chi^2/\text{NDF}$ : 936279.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_48\_avg\_mean vs Slug



Right In: -96.637 $\pm$ 71.440  $\chi^2$ /NDF: 9.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -39.036 $\pm$ 64.283  $\chi^2$ /NDF: 11.6/9

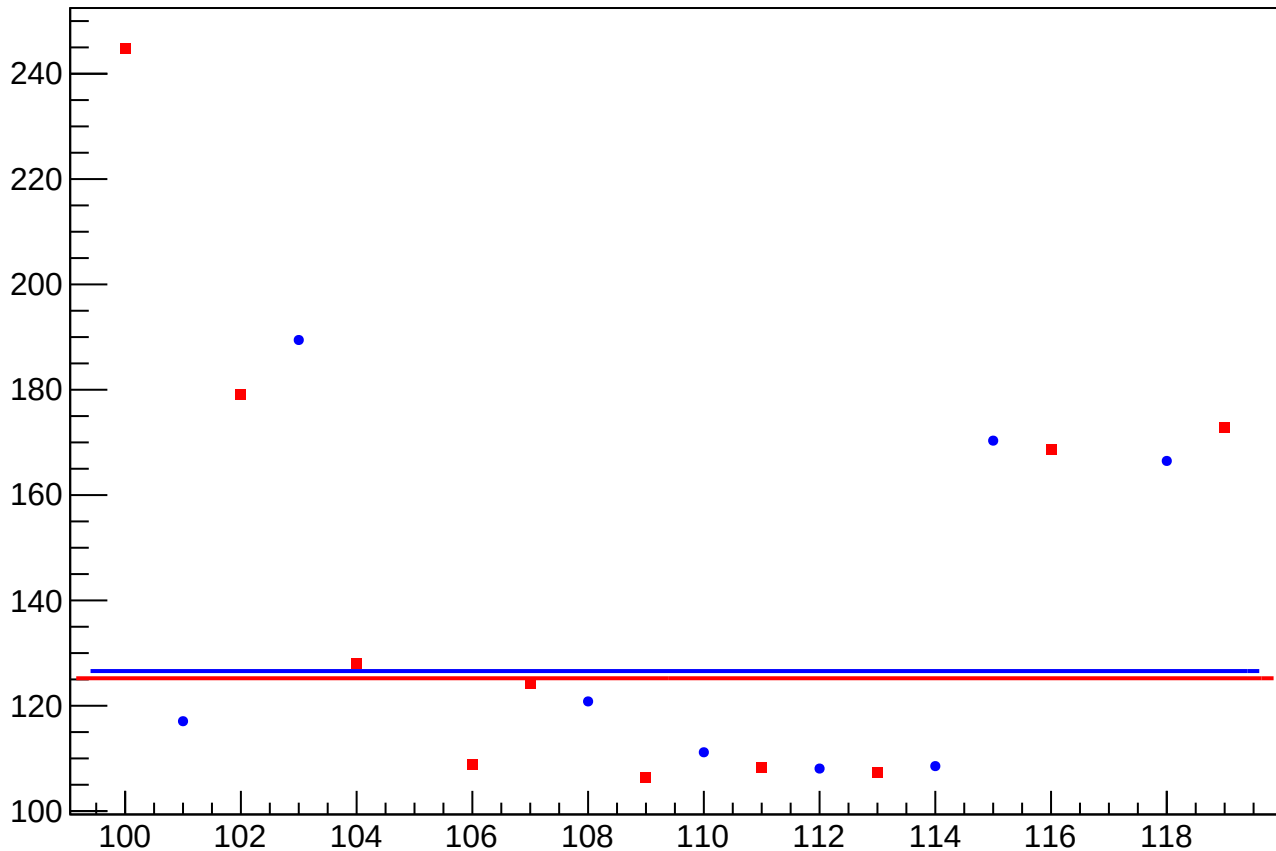
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -64.808 $\pm$ 47.786  $\chi^2$ /NDF: 21.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 126.588 $\pm$ 0.051  $\chi^2$ /NDF: 271017.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.219 $\pm$ 0.045  $\chi^2$ /NDF: 366767.3/9

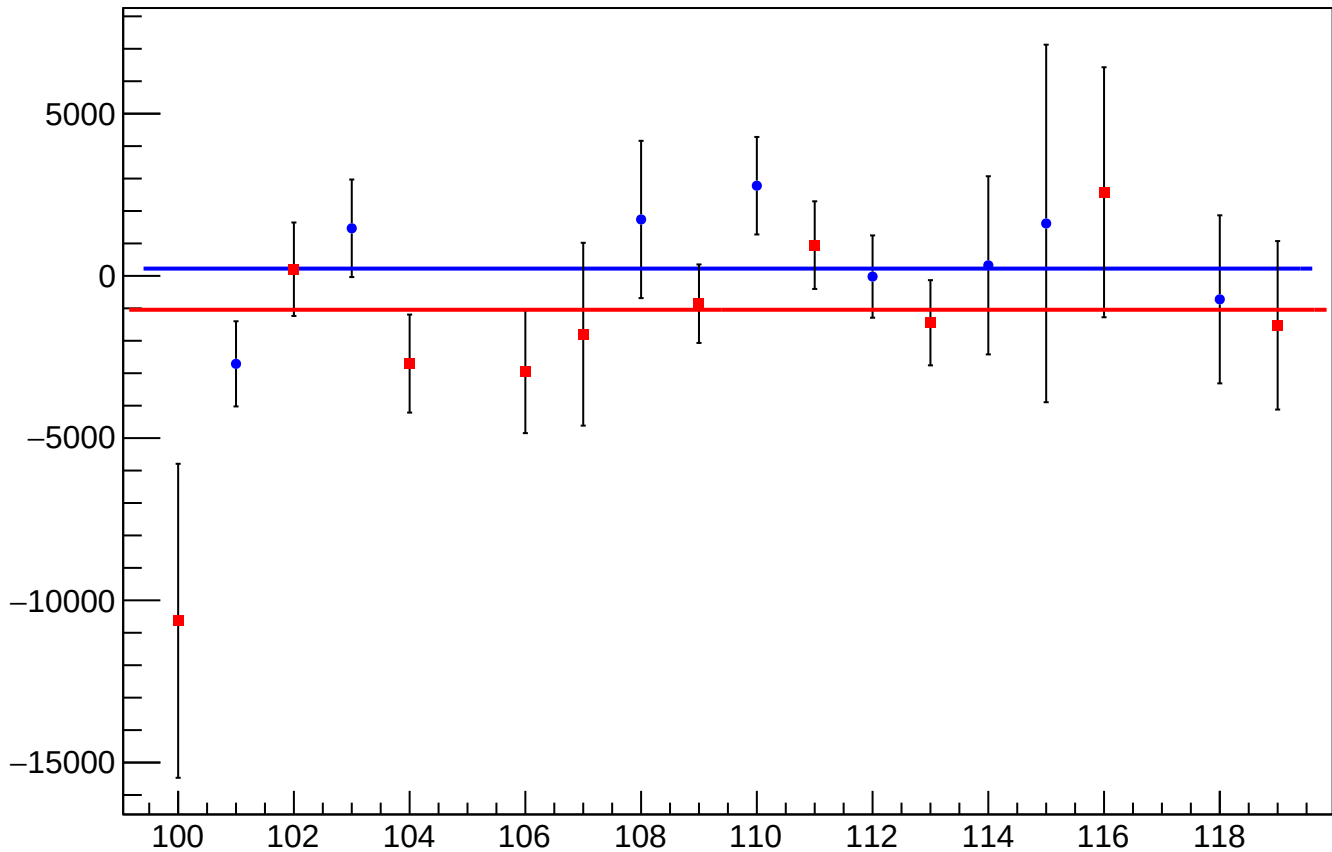
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 125.832 $\pm$ 0.034  $\chi^2$ /NDF: 638191.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 224.694 $\pm$ 623.547  $\chi^2$ /NDF: 9.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1044.111 $\pm$ 542.699  $\chi^2$ /NDF: 10.2/9

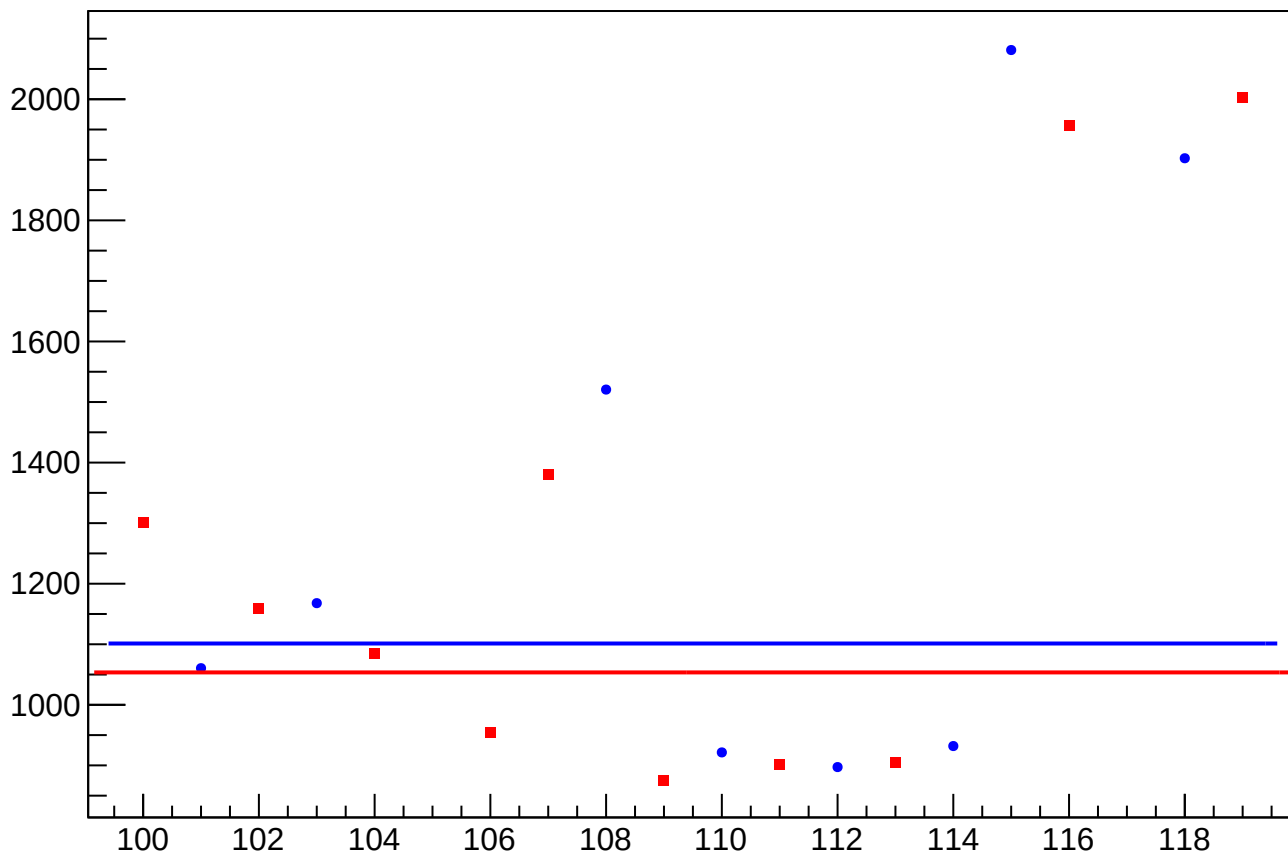
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -497.245 $\pm$ 409.366  $\chi^2$ /NDF: 21.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1101.258 $\pm$ 0.441  $\chi^2$ /NDF: 408397.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1053.516 $\pm$ 0.384  $\chi^2$ /NDF: 521211.0/9

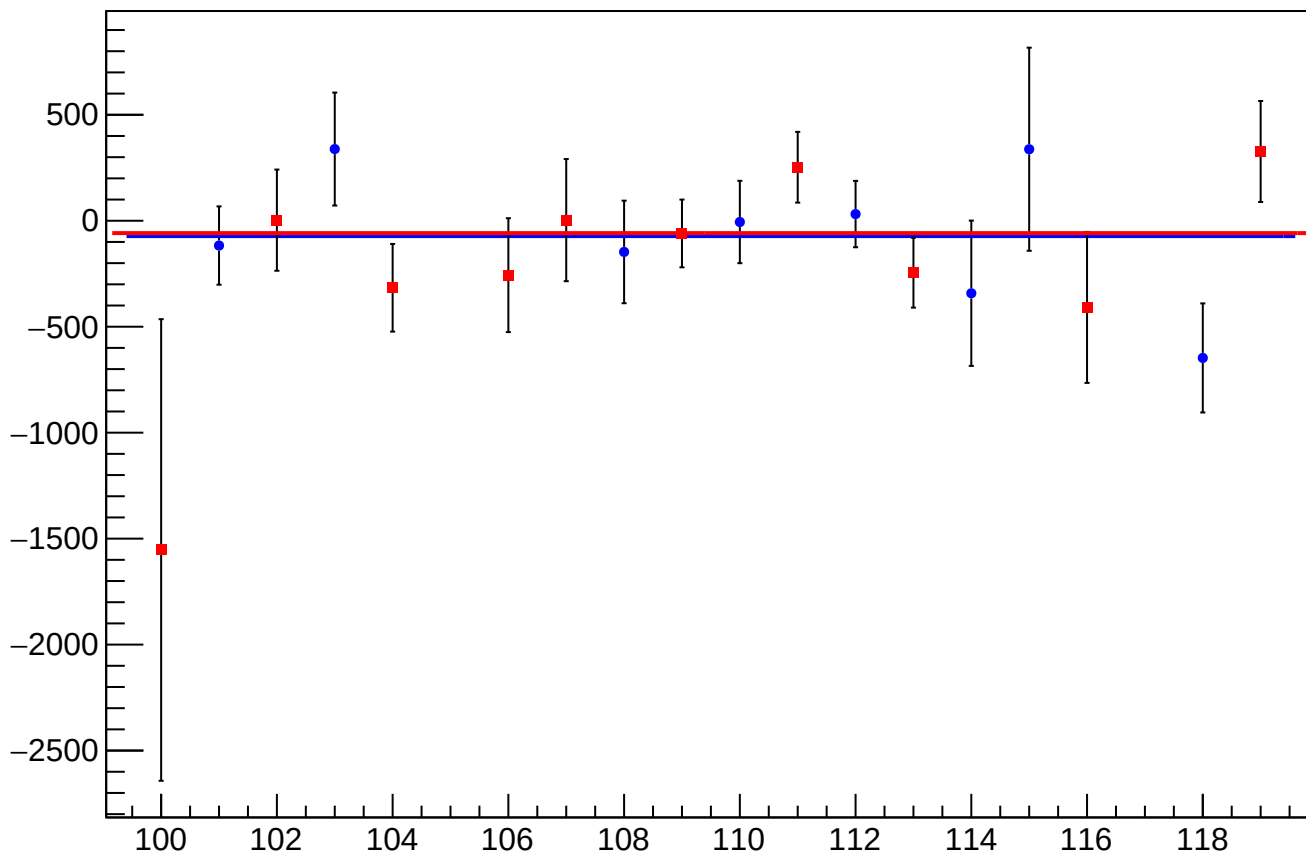
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1074.093 $\pm$ 0.289  $\chi^2$ /NDF: 936279.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_48\_avg\_mean vs Slug



Right In:  $-72.354 \pm 80.151$   $\chi^2/\text{NDF}$ : 9.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-58.329 \pm 69.844$   $\chi^2/\text{NDF}$ : 12.4/9

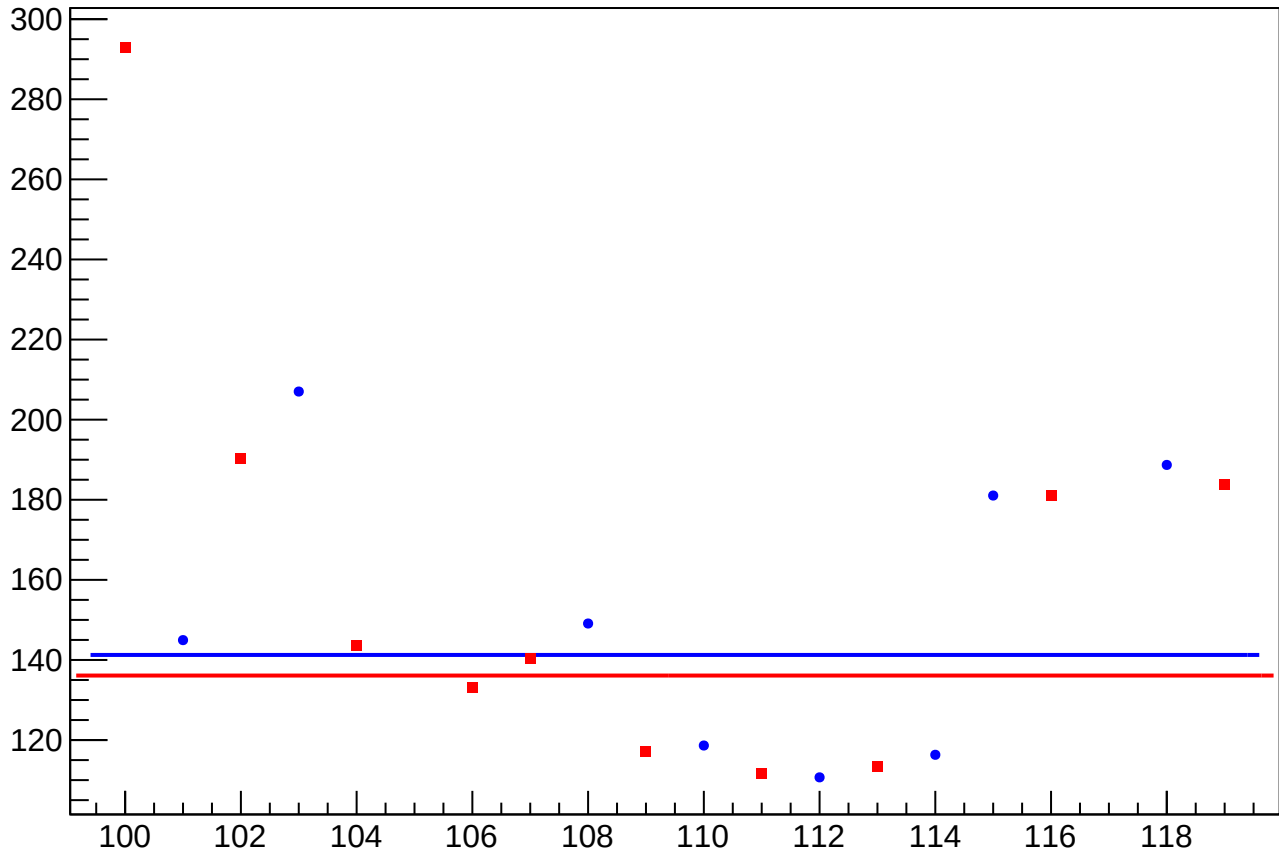
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-64.382 \pm 52.657$   $\chi^2/\text{NDF}$ : 21.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 141.255+/-0.057  $\chi^2/\text{NDF}$ : 320343.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 136.109+/-0.049  $\chi^2/\text{NDF}$ : 369248.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

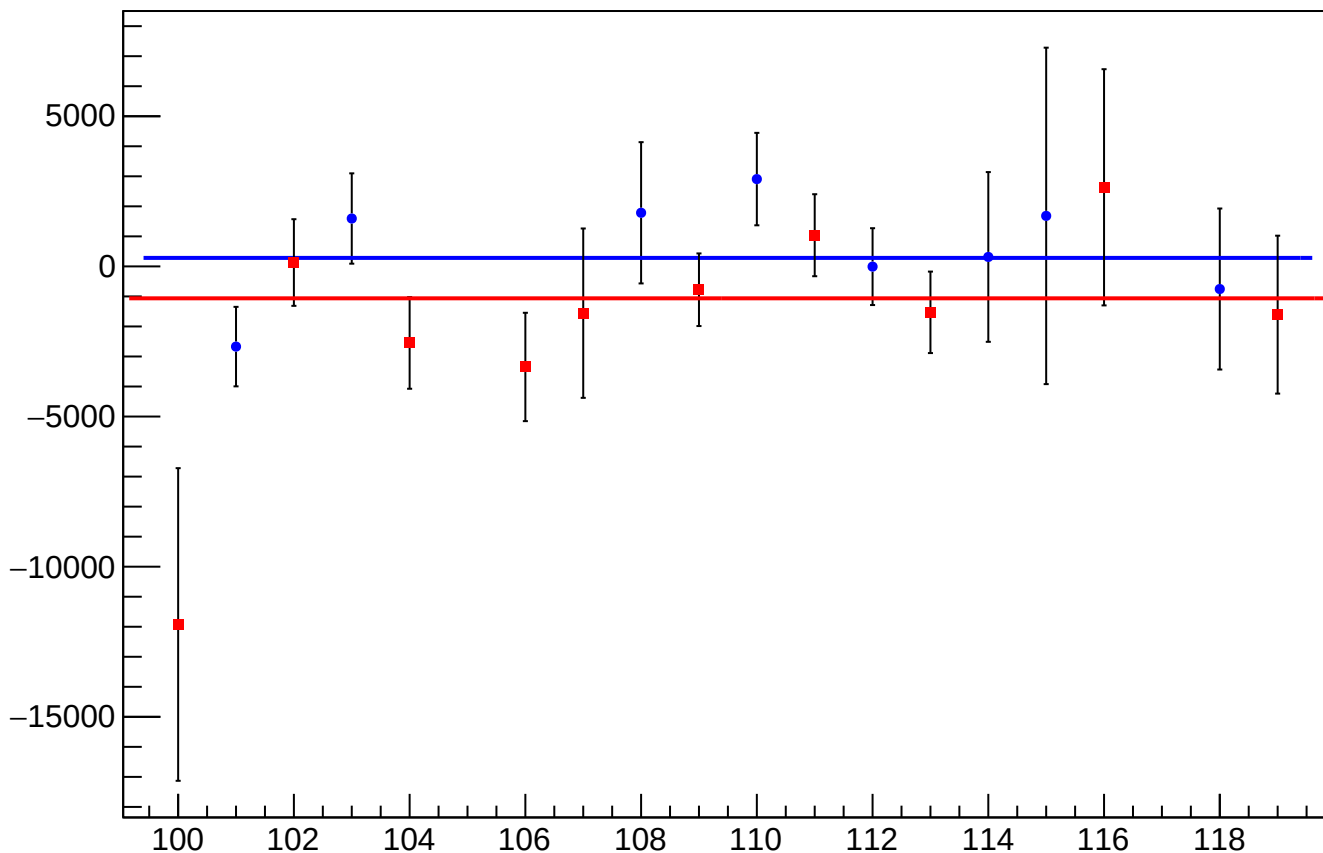
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 138.330+/-0.037  $\chi^2/\text{NDF}$ : 694277.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_48\_avg\_dit\_correction\_mean vs Slug



Right In: 282.949+/-629.602  $\chi^2/\text{NDF}$ : 9.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1063.264+/-546.132  $\chi^2/\text{NDF}$ : 11.1/9

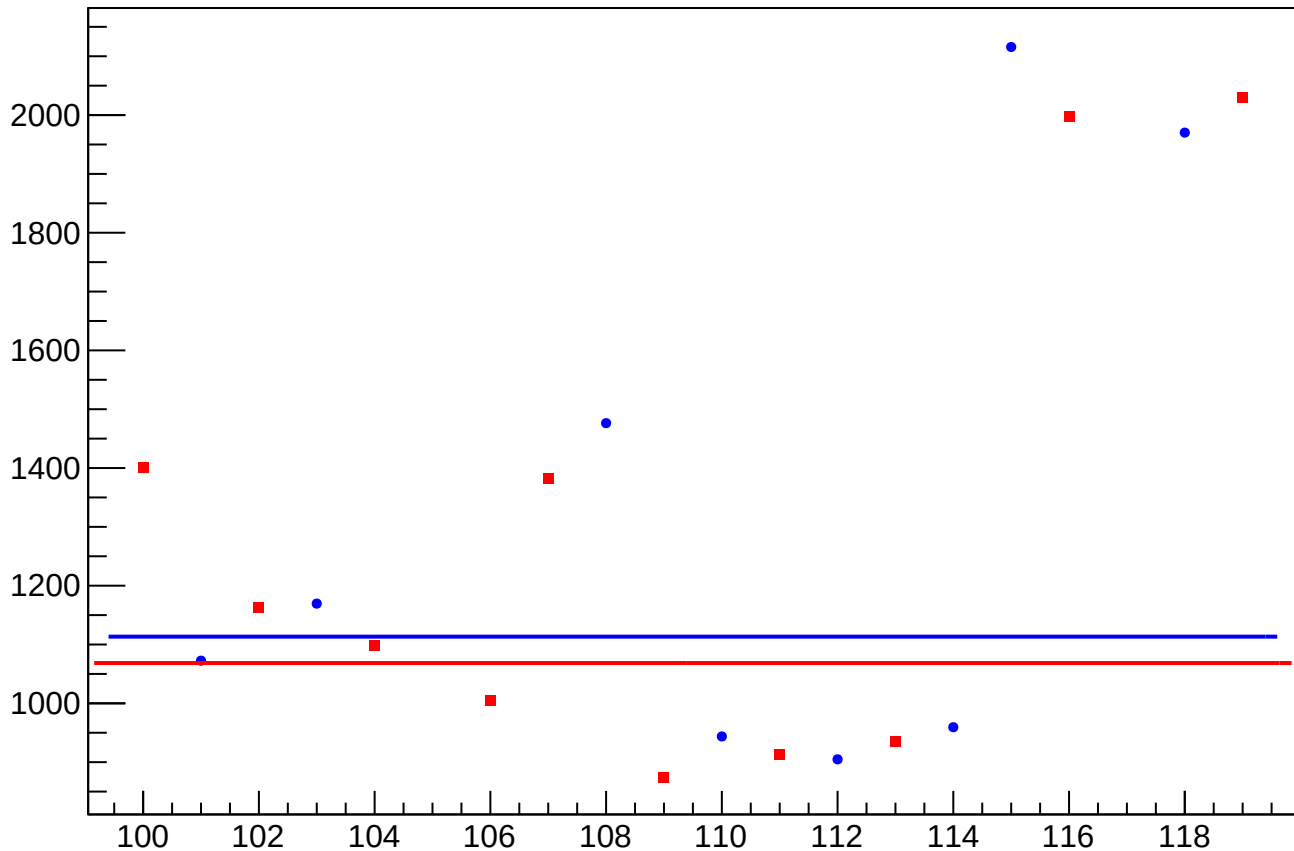
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -485.251+/-412.551  $\chi^2/\text{NDF}$ : 23.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_avg\_dit\_correction\_rms vs Slug



Right In: 1113.371 $\pm$ 0.445  $\chi^2$ /NDF: 404019.7/7

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

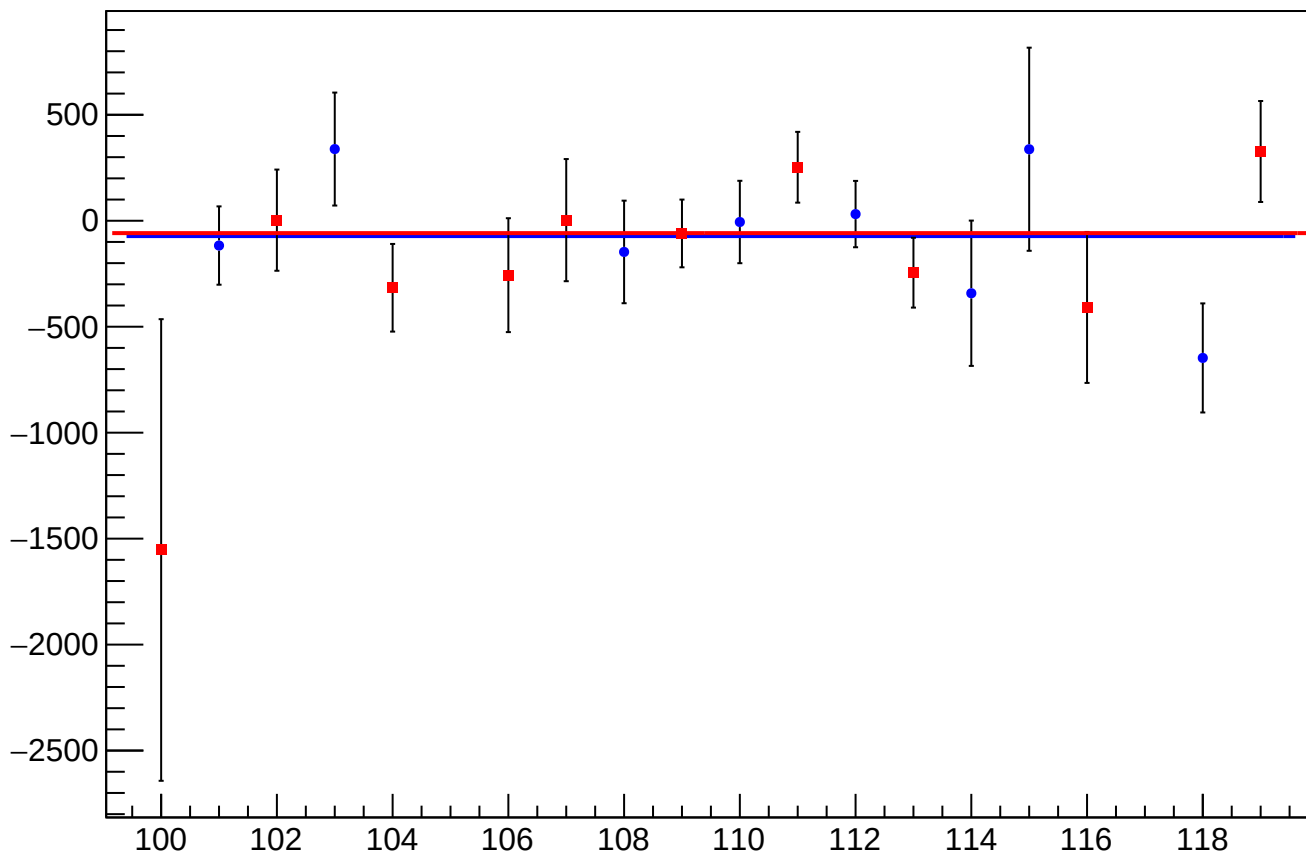
Right Out: 1068.545 $\pm$ 0.386  $\chi^2$ /NDF: 520276.9/9

All: 1087.791 $\pm$ 0.292  $\chi^2$ /NDF: 930081.9/17

- 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\_sam\_48\_avg\_mean vs Slug



Right In: -72.354+/-80.151  $\chi^2/\text{NDF}$ : 9.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -58.327+/-69.844  $\chi^2/\text{NDF}$ : 12.4/9

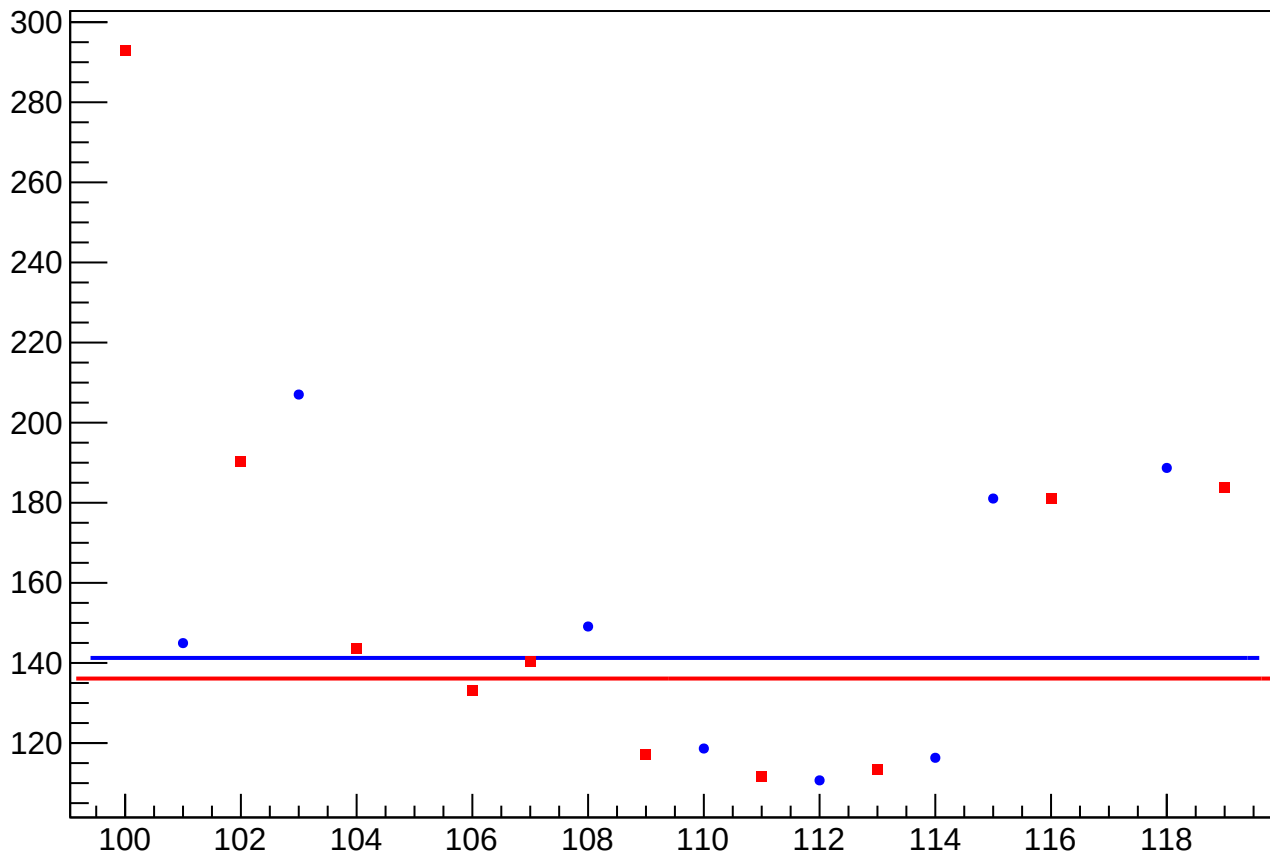
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -64.381+/-52.657  $\chi^2/\text{NDF}$ : 21.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 141.255+/-0.057  $\chi^2/\text{NDF}$ : 320348.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 136.109+/-0.049  $\chi^2/\text{NDF}$ : 369251.0/9

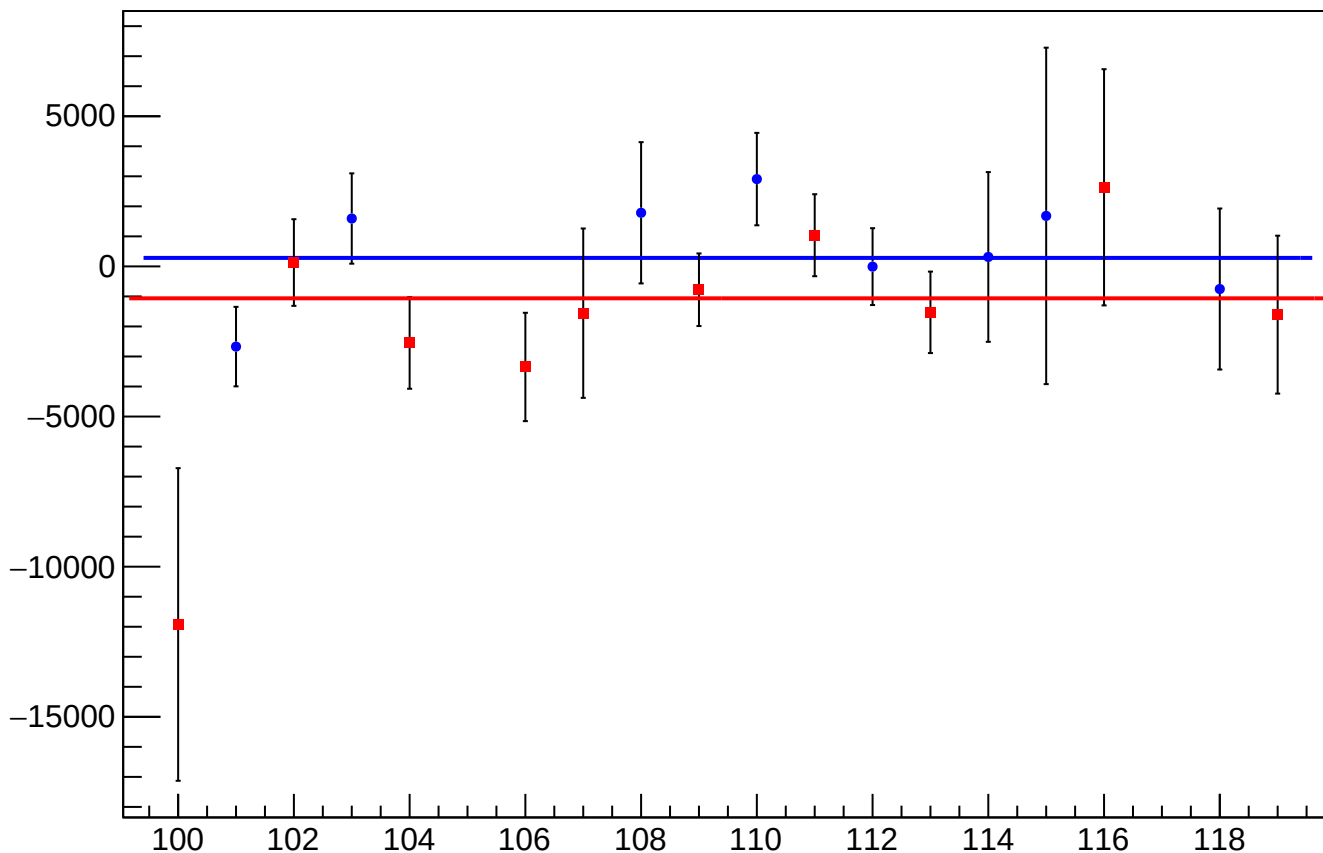
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 138.330+/-0.037  $\chi^2/\text{NDF}$ : 694285.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 282.949 $\pm$ 629.602  $\chi^2$ /NDF: 9.3/7

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1063.262 $\pm$ -546.131  $\chi^2$ /NDF: 11.1/9

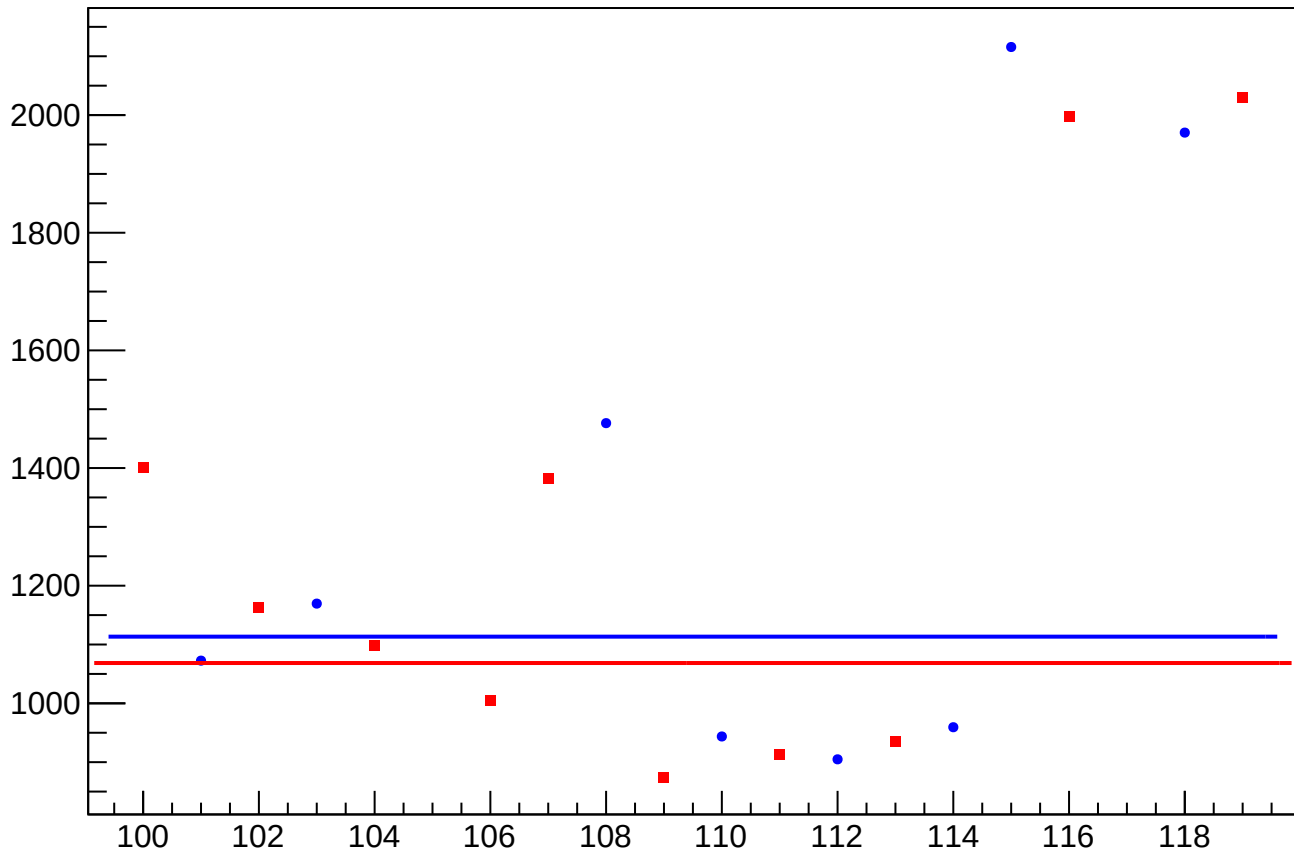
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -485.250 $\pm$ -412.551  $\chi^2$ /NDF: 23.0/17

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1113.370 $\pm$ 0.445  $\chi^2$ /NDF: 404021.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1068.543 $\pm$ 0.386  $\chi^2$ /NDF: 520279.3/9

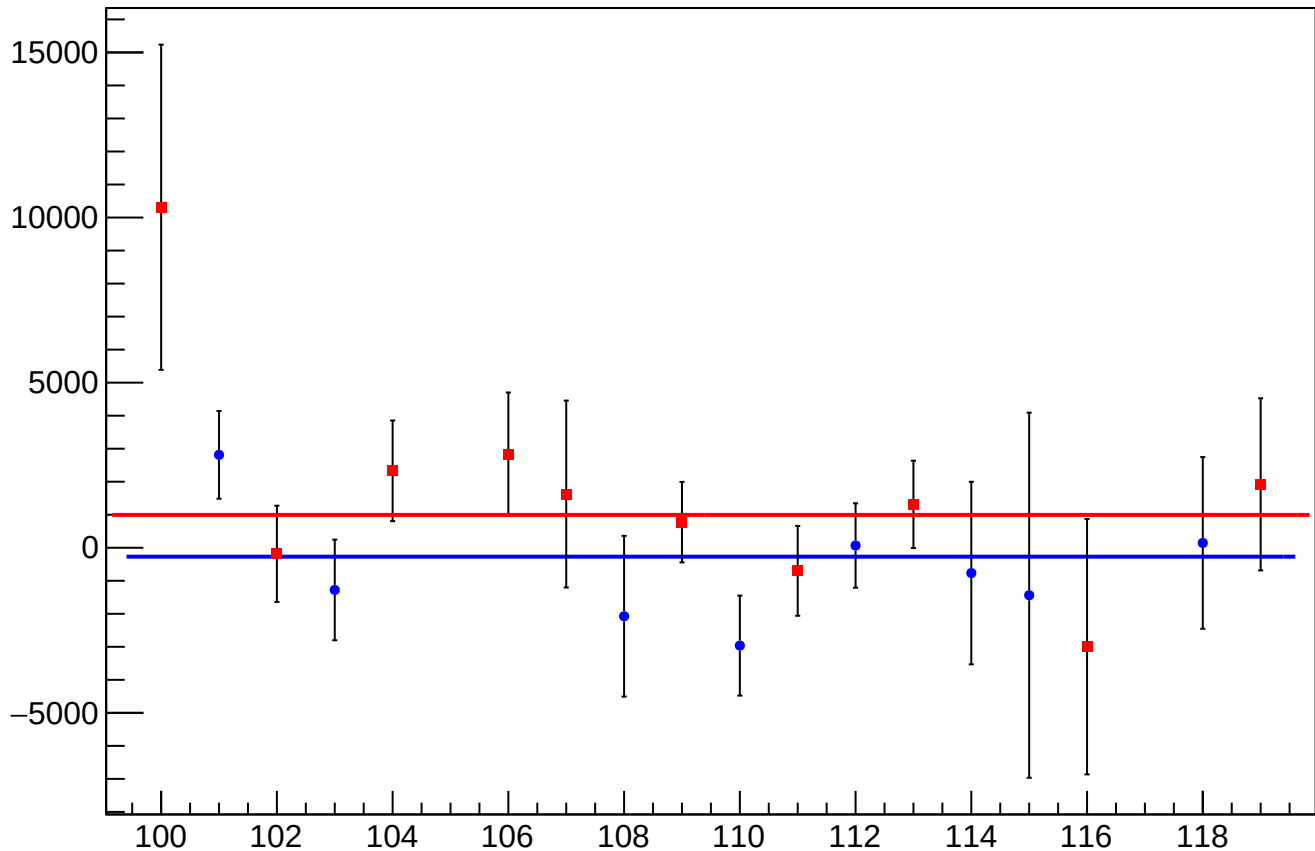
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1087.790 $\pm$ 0.292  $\chi^2$ /NDF: 930086.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_avg\_mean vs Slug



Right In: -270.375+/-629.250  $\chi^2/\text{NDF}$ : 9.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 994.282+/-546.133  $\chi^2/\text{NDF}$ : 8.9/9

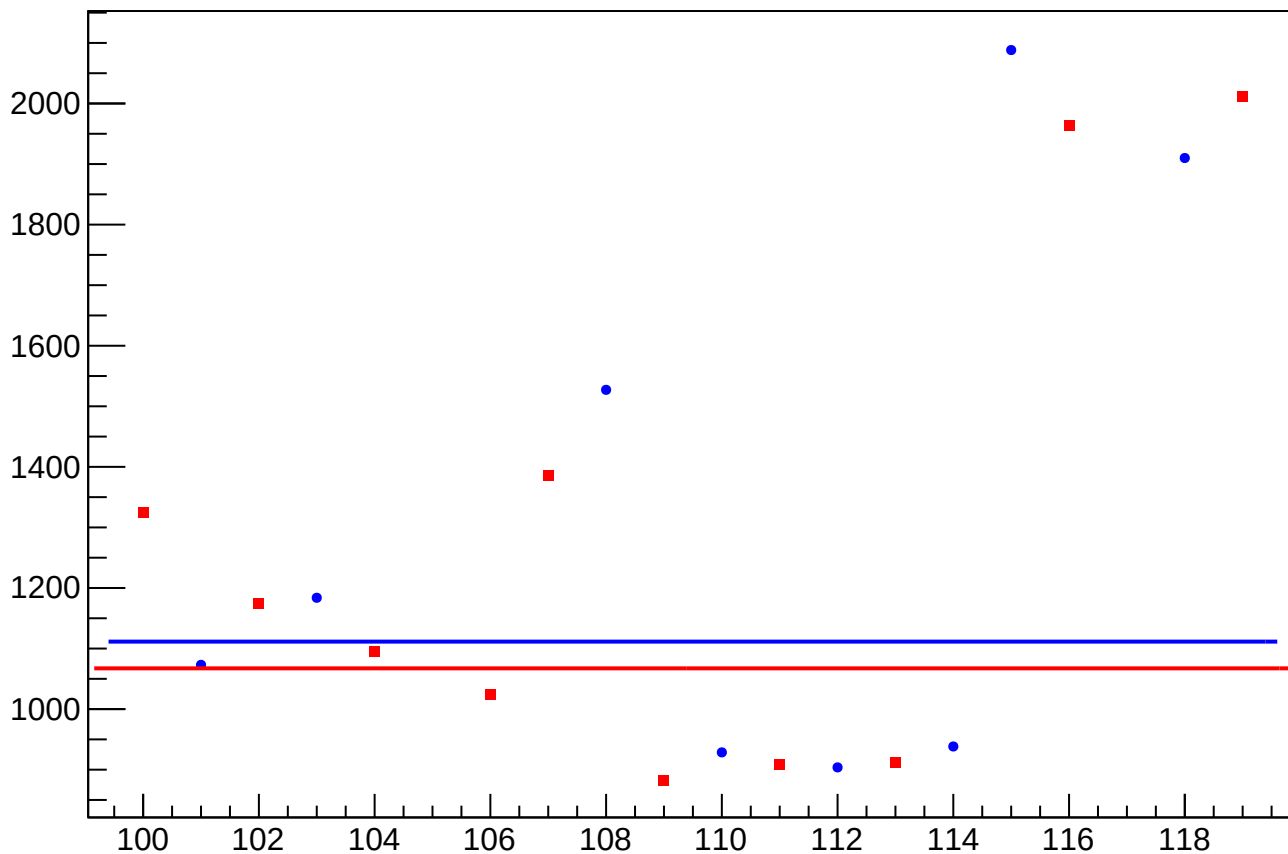
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 450.938+/-412.453  $\chi^2/\text{NDF}$ : 20.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_avg\_rms vs Slug



Right In: 1111.455+/-0.445  $\chi^2/\text{NDF}$ : 405444.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1067.300+/-0.386  $\chi^2/\text{NDF}$ : 514039.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

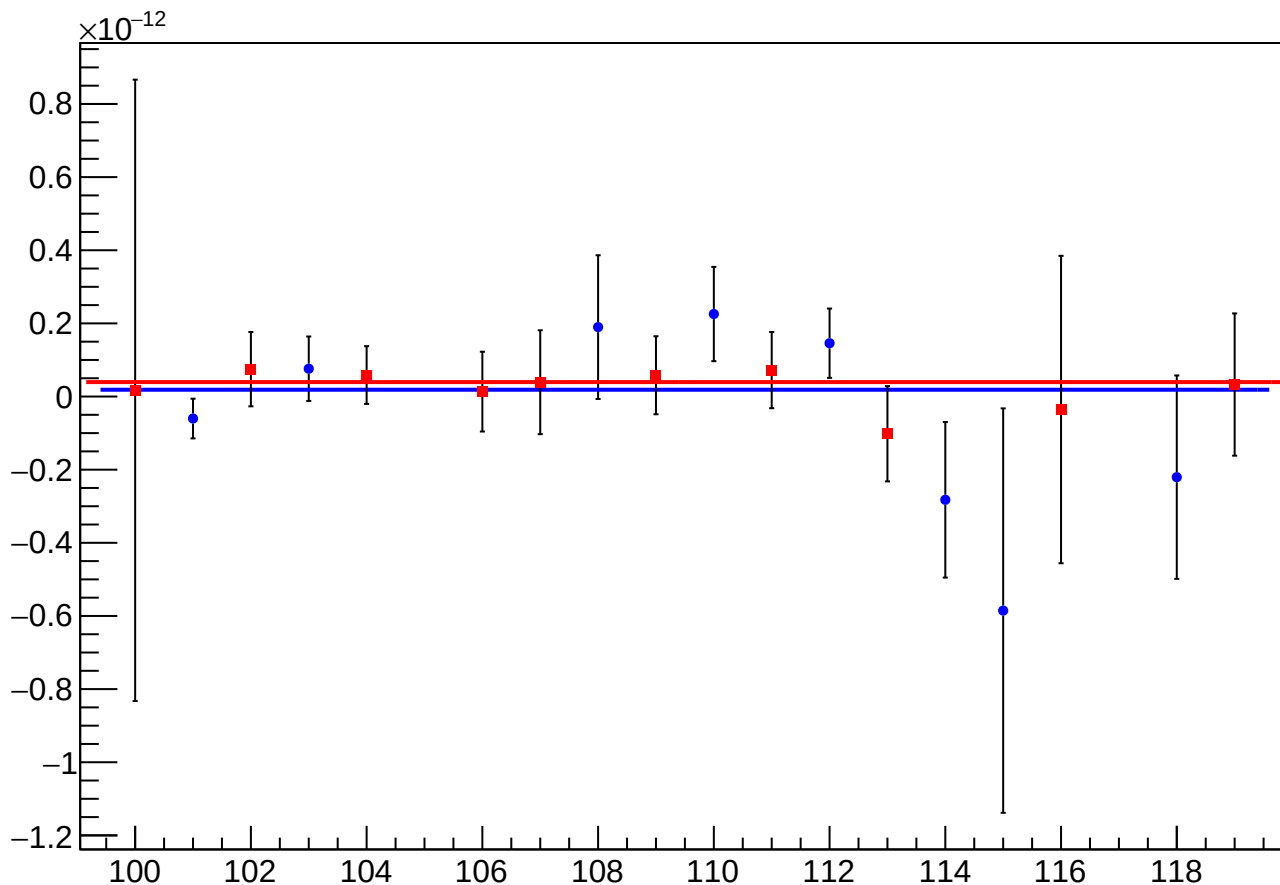
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1086.270+/-0.292  $\chi^2/\text{NDF}$ : 925101.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_48\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.6/9

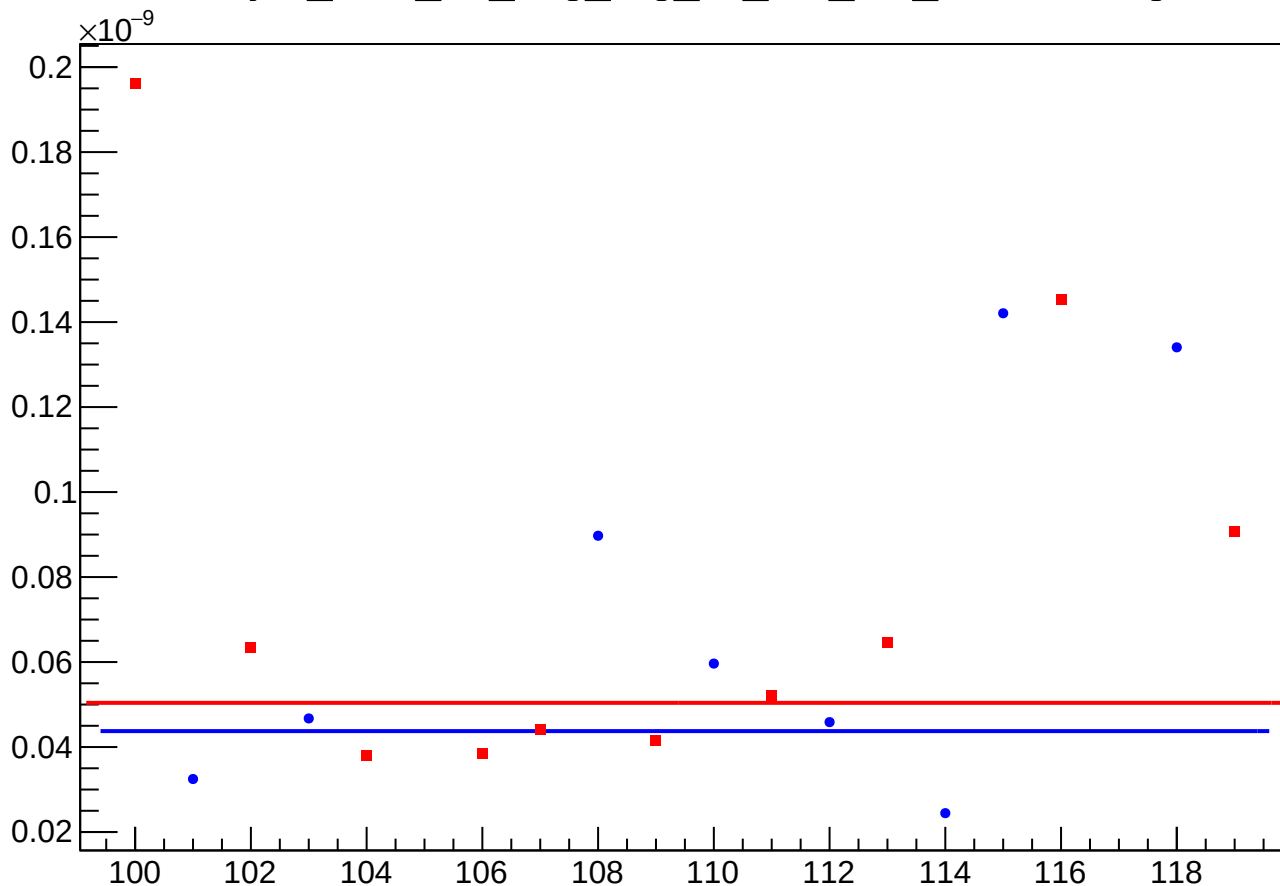
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 520122.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 394607.9/9

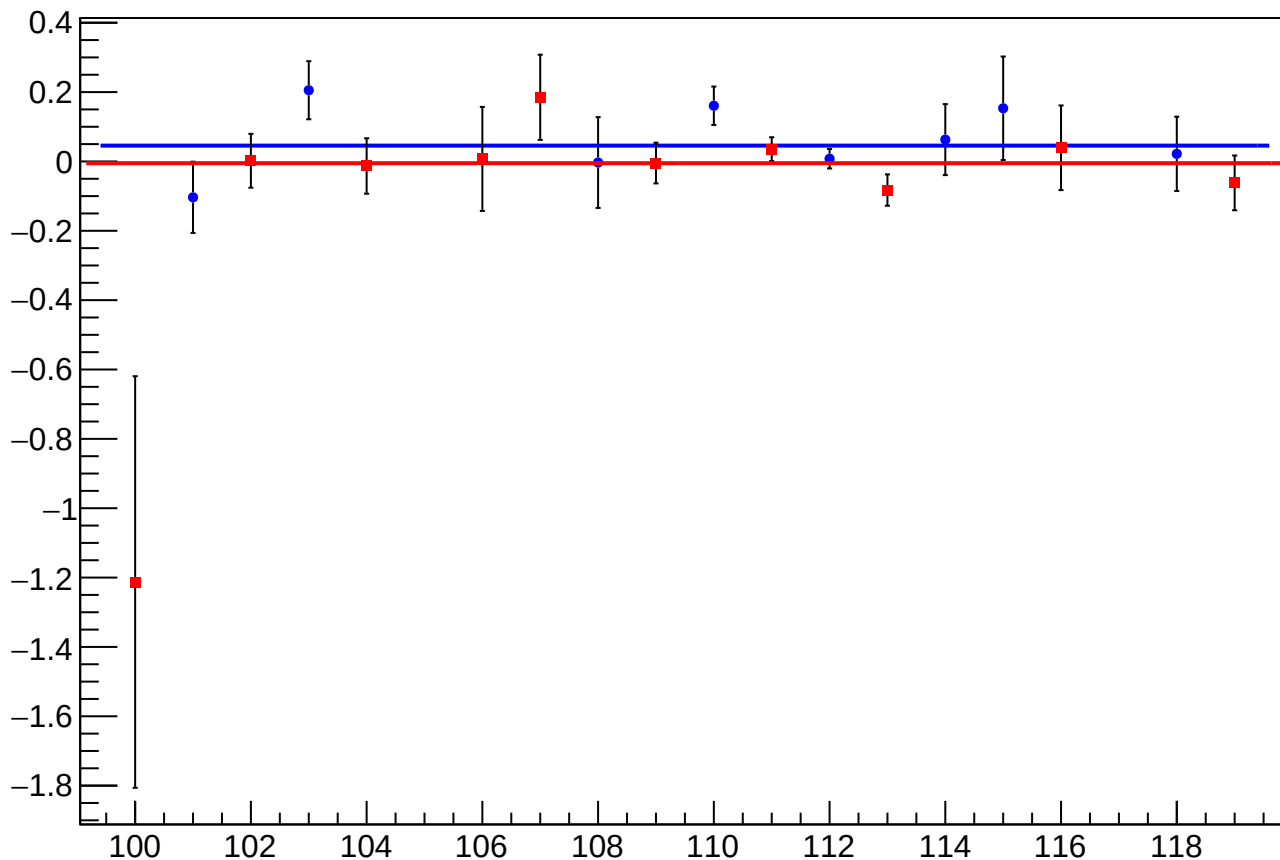
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 944959.8/17

- 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: 0.046 $\pm$ 0.022  $\chi^2$ /NDF: 12.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.005 $\pm$ 0.021  $\chi^2$ /NDF: 11.5/9

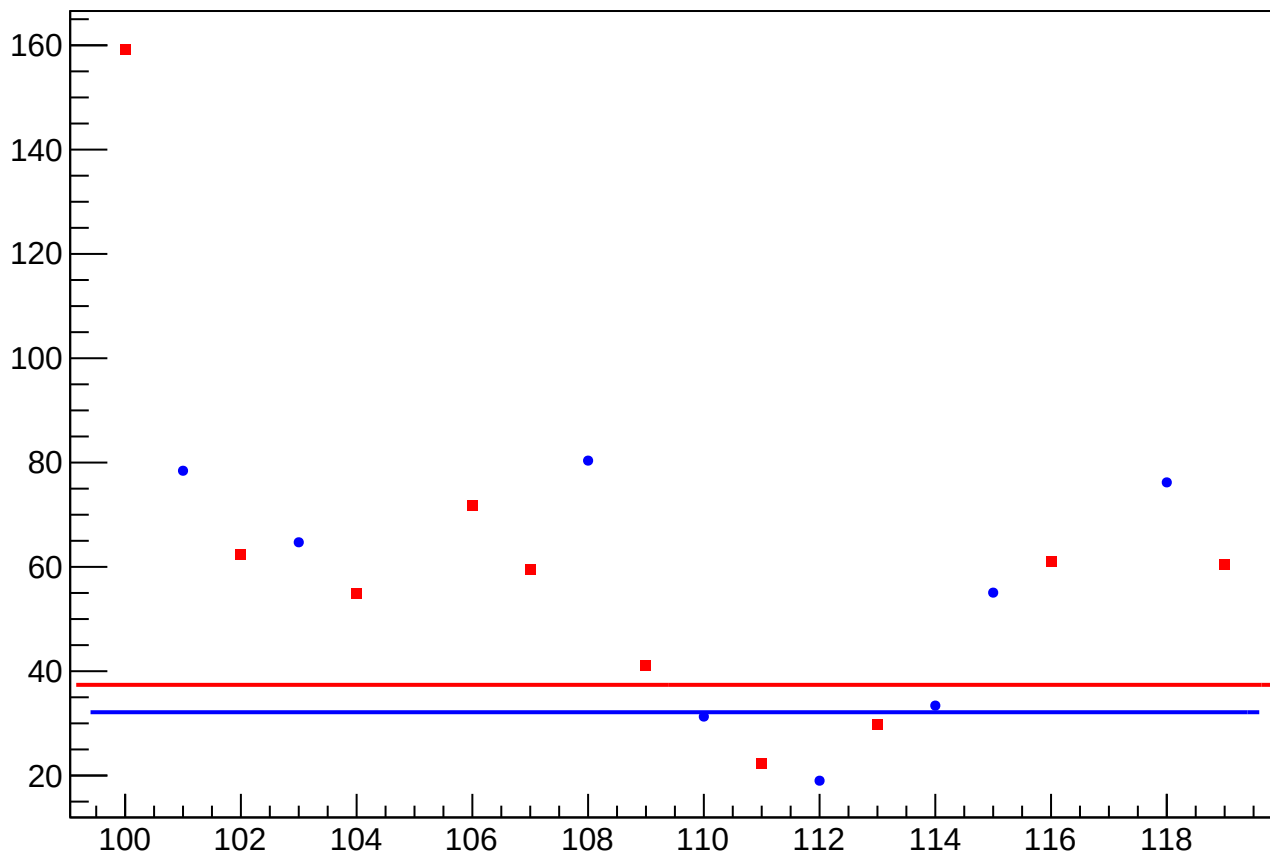
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.015  $\chi^2$ /NDF: 27.0/17

- 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: 32.136 $\pm$ 0.015  $\chi^2$ /NDF: 1801424.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 37.385 $\pm$ 0.015  $\chi^2$ /NDF: 1256999.7/9

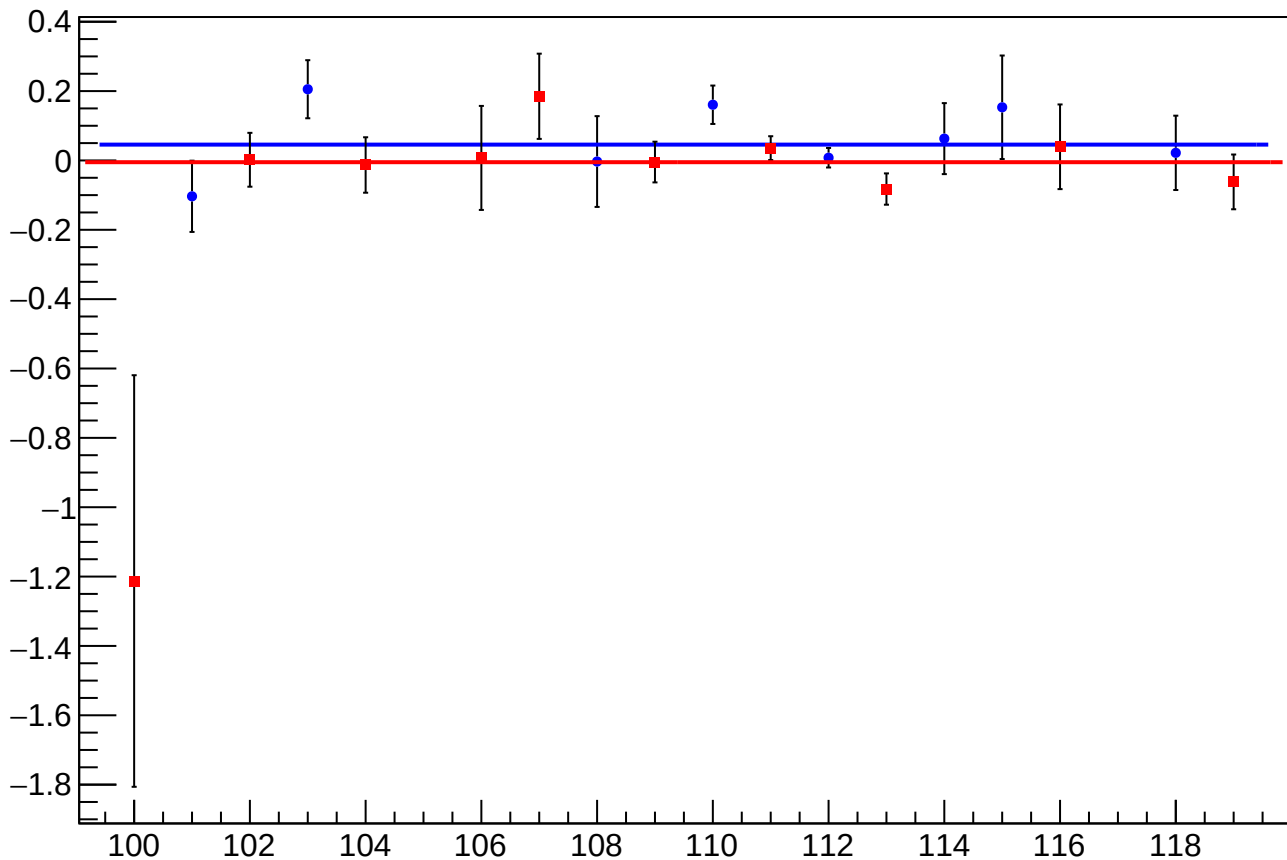
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 34.869 $\pm$ 0.011  $\chi^2$ /NDF: 3119000.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.046 $\pm$ 0.022  $\chi^2$ /NDF: 12.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.005 $\pm$ 0.021  $\chi^2$ /NDF: 11.5/9

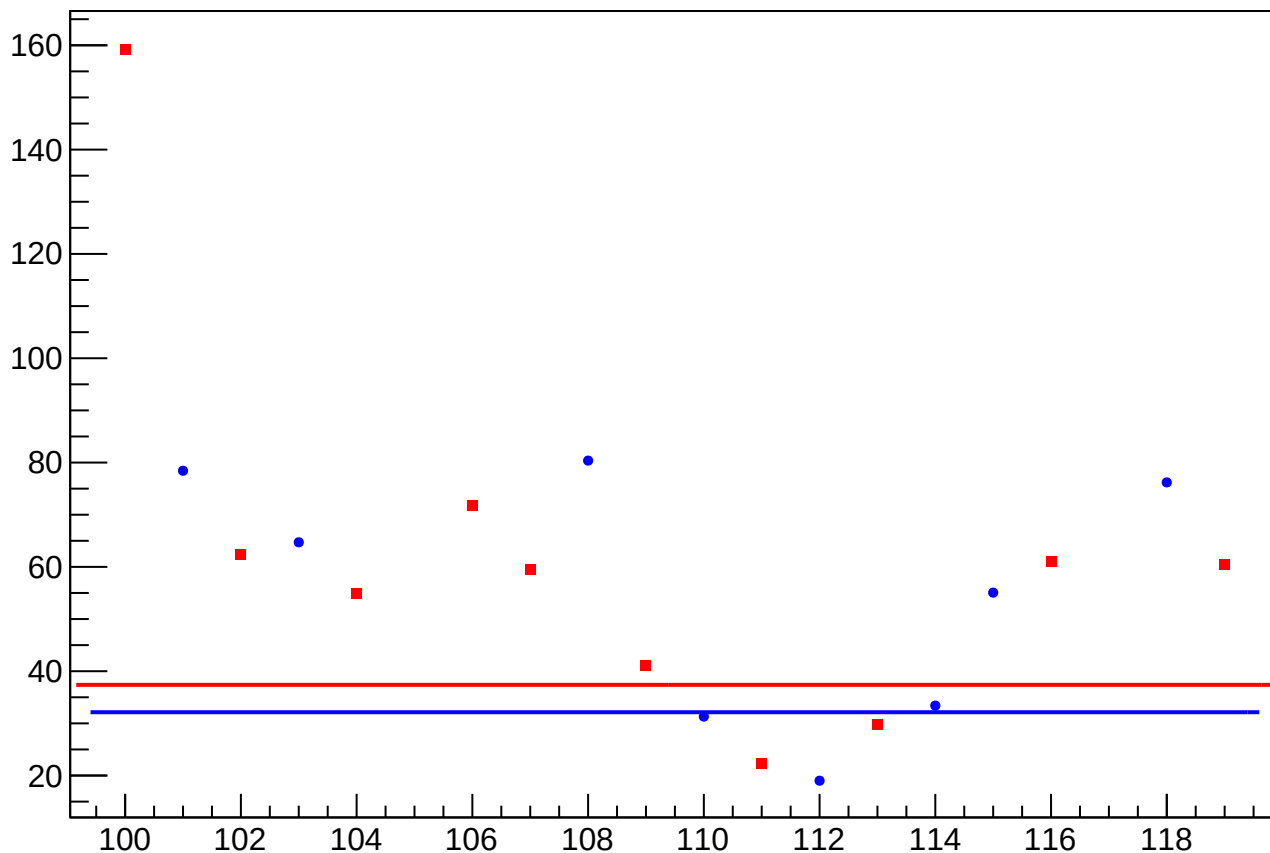
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.015  $\chi^2$ /NDF: 27.0/17

- 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: 32.136 $\pm$ 0.015  $\chi^2$ /NDF: 1801424.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 37.385 $\pm$ 0.015  $\chi^2$ /NDF: 1256999.7/9

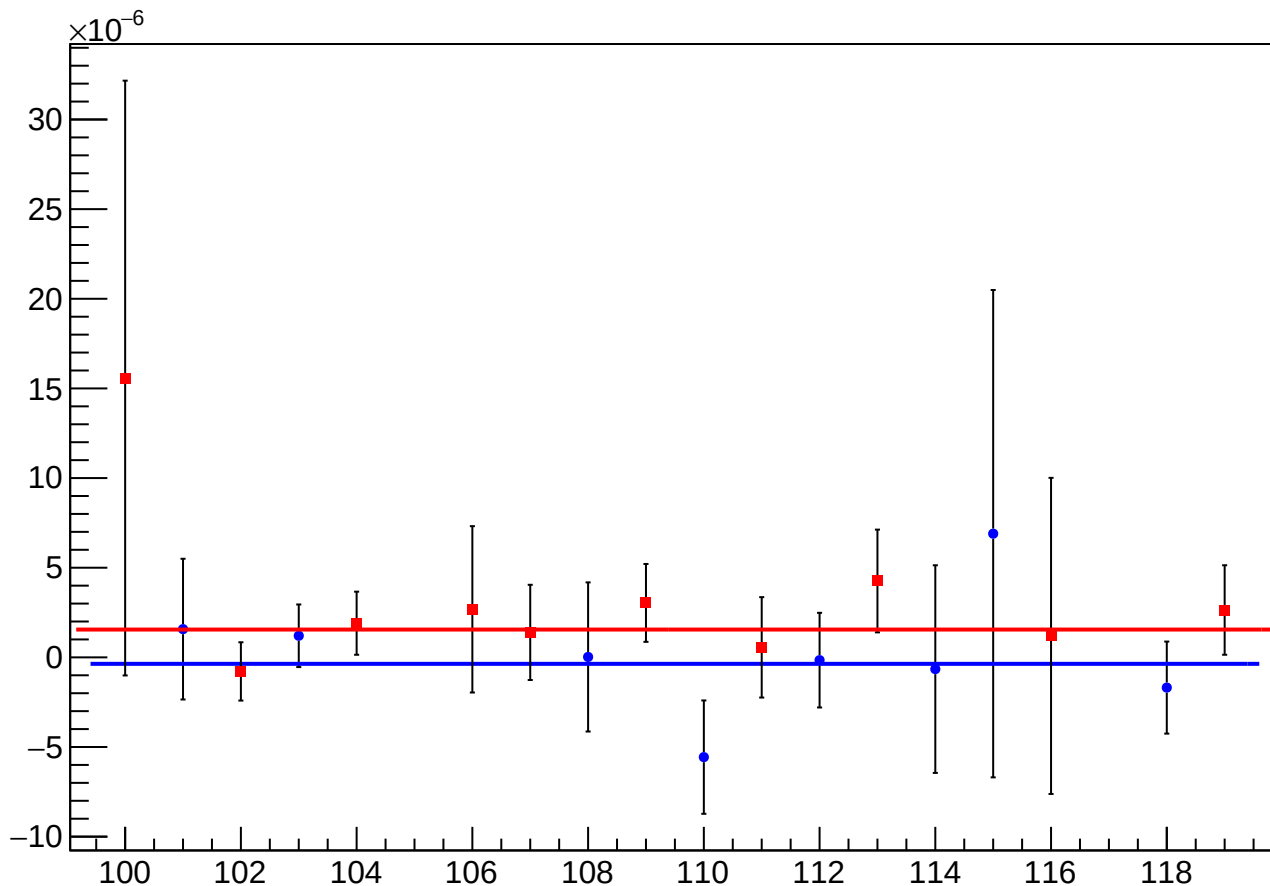
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 34.869 $\pm$ 0.011  $\chi^2$ /NDF: 3119000.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.6/9

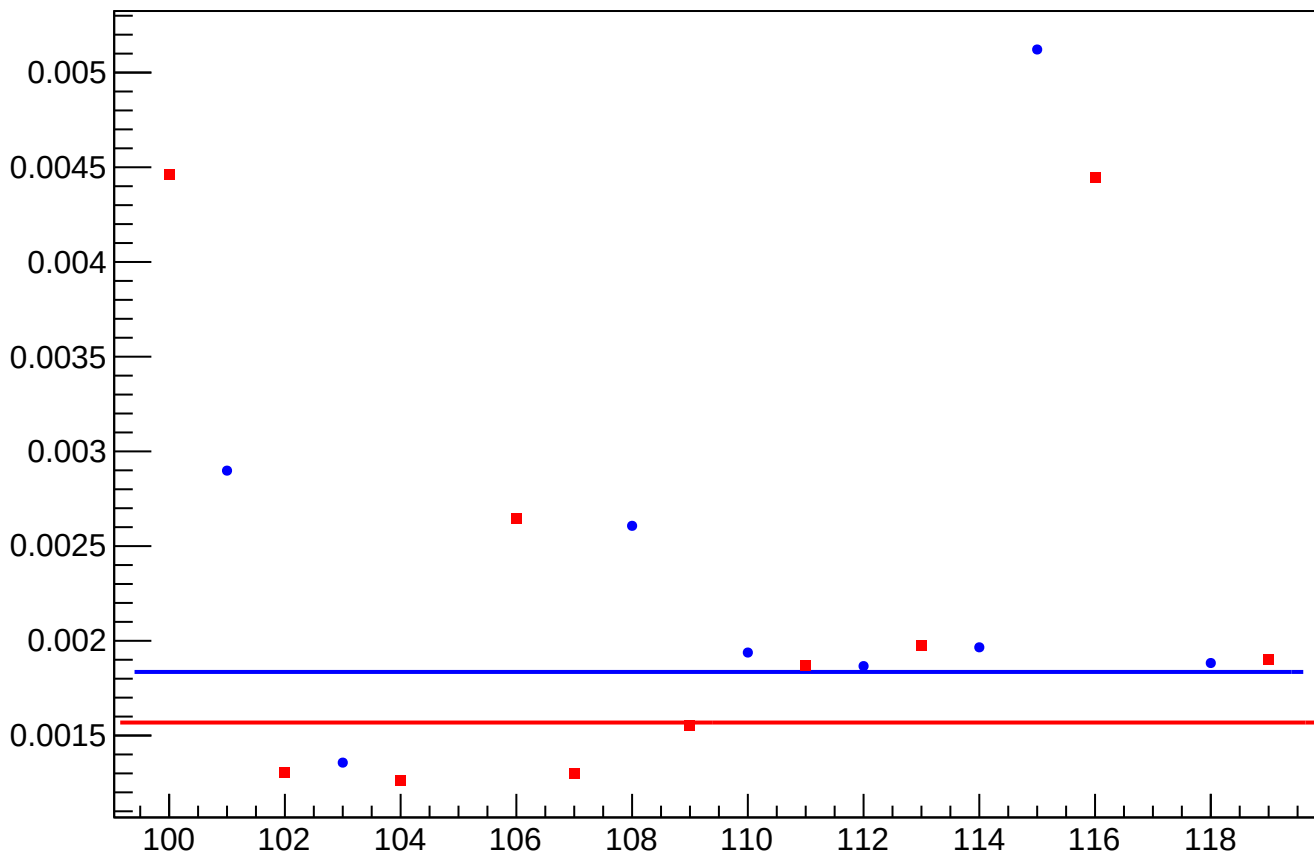
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.9/17

- 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  $\chi^2/\text{NDF}$ : 486845.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 613711.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

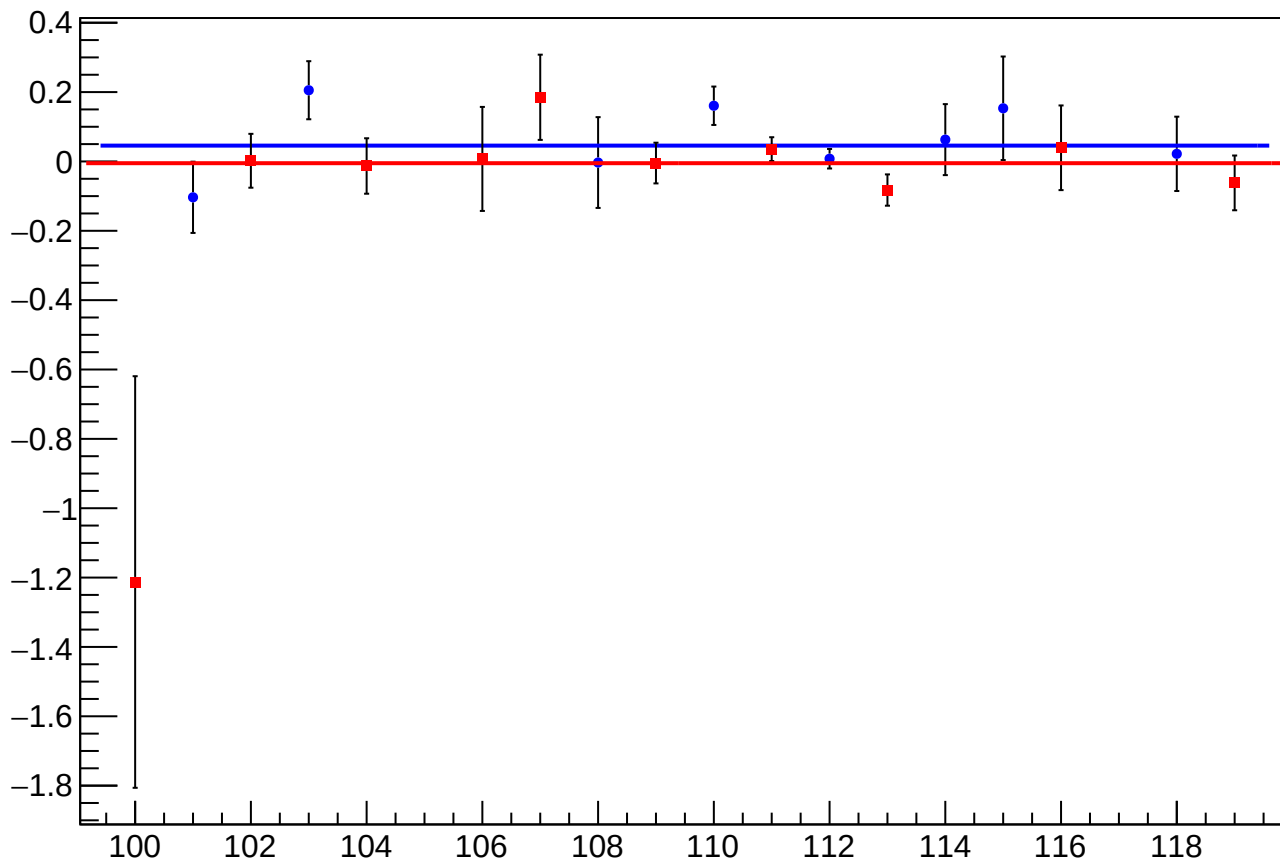
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1180328.3/17

- 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: 0.046 $\pm$ 0.022  $\chi^2$ /NDF: 12.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.005 $\pm$ 0.021  $\chi^2$ /NDF: 11.5/9

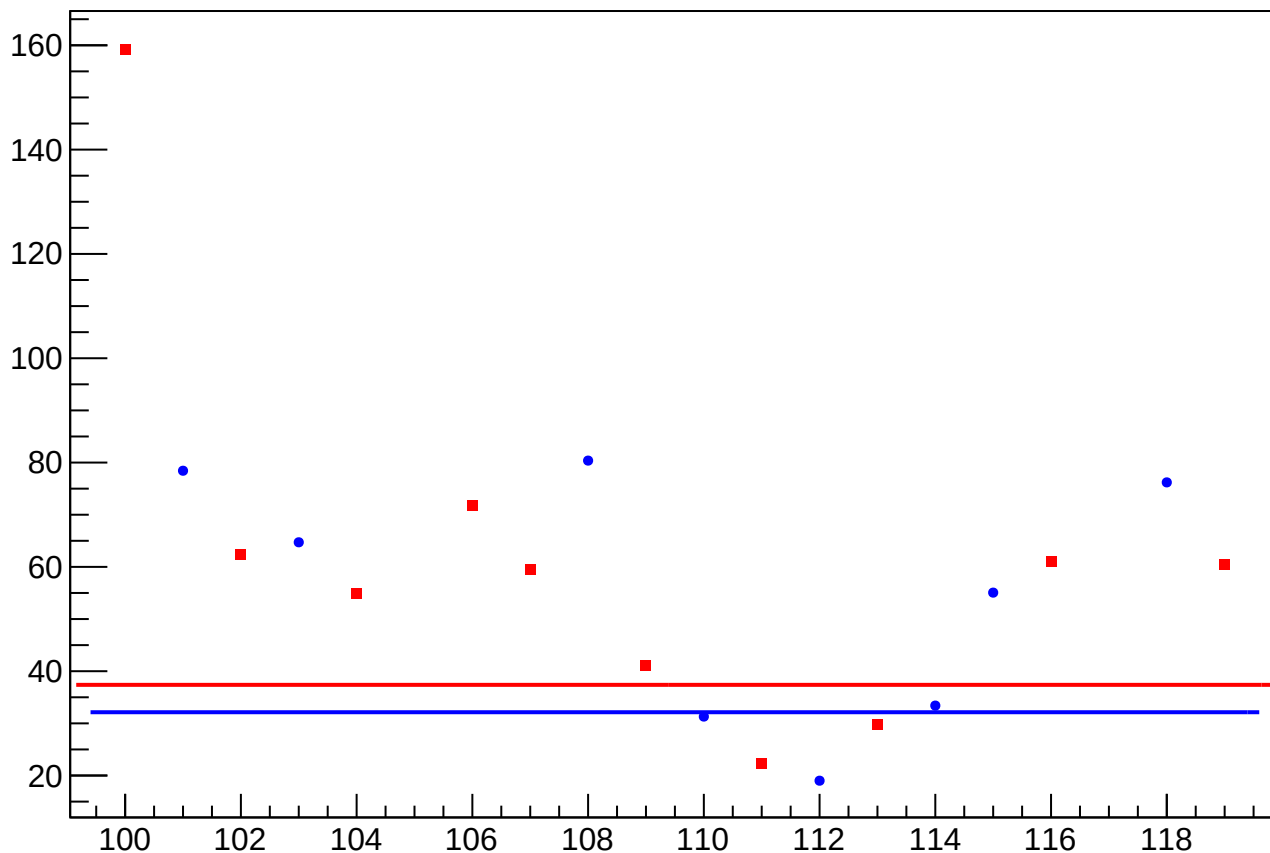
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.015  $\chi^2$ /NDF: 27.0/17

- 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: 32.135+/-0.015  $\chi^2/\text{NDF}$ : 1801515.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.384+/-0.015  $\chi^2/\text{NDF}$ : 1257099.3/9

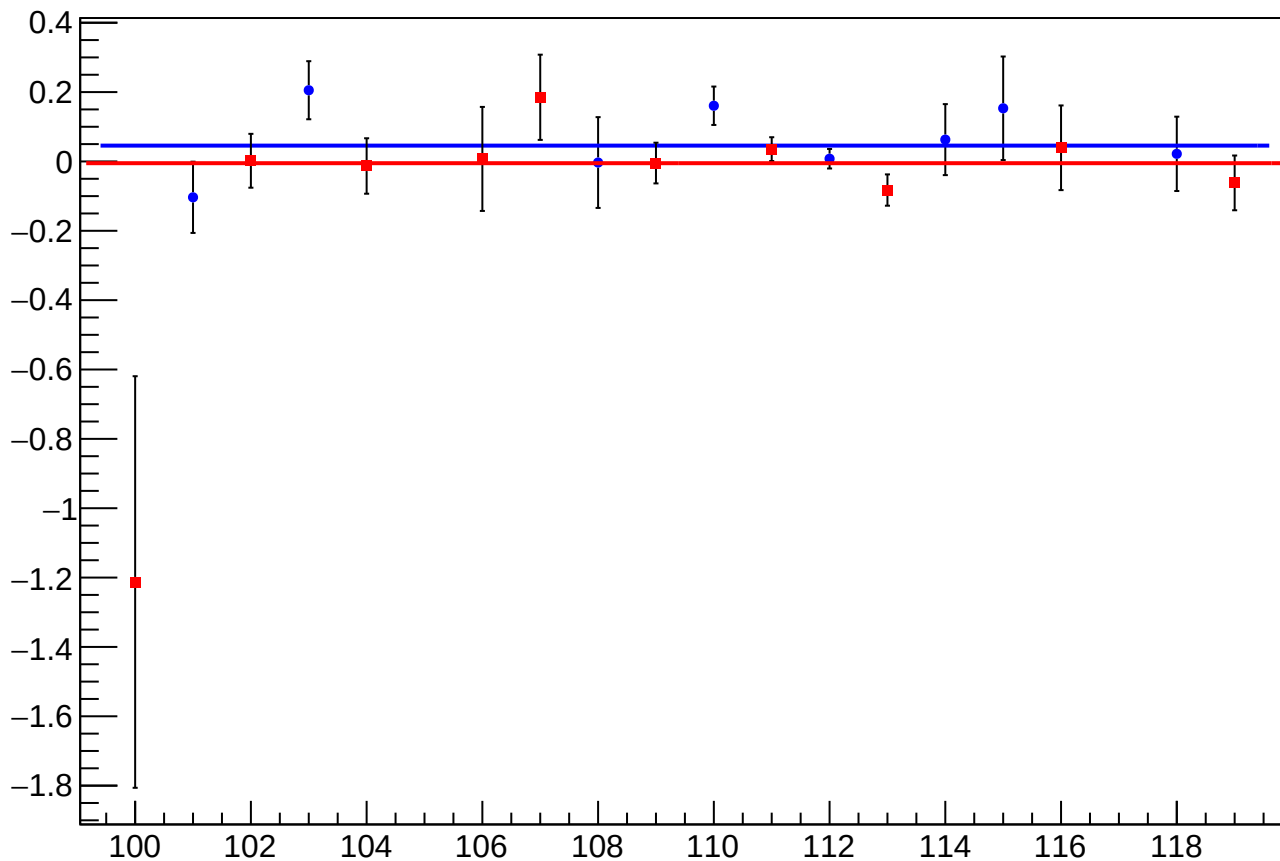
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.868+/-0.011  $\chi^2/\text{NDF}$ : 3119192.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.046 $\pm$ 0.022  $\chi^2$ /NDF: 12.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.005 $\pm$ 0.021  $\chi^2$ /NDF: 11.5/9

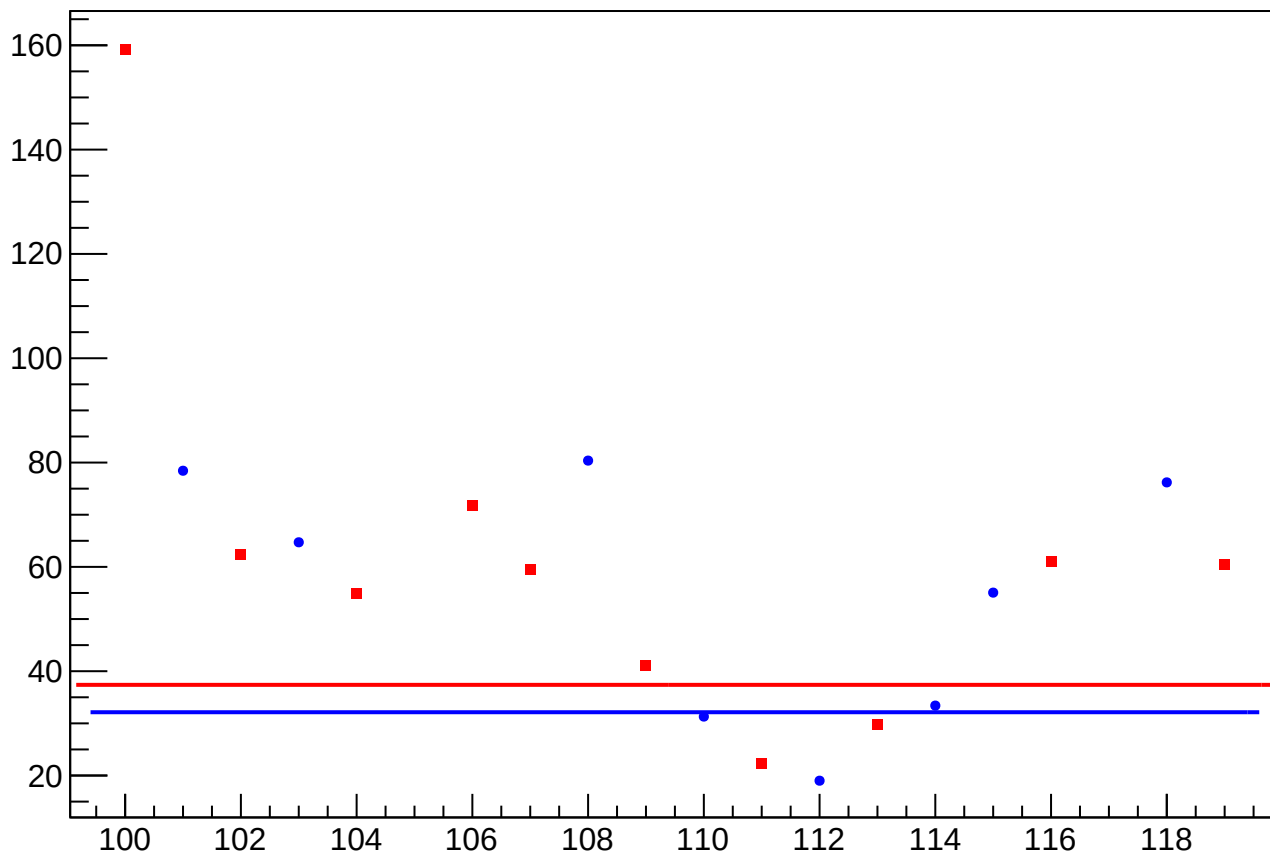
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.015  $\chi^2$ /NDF: 27.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 32.135 $\pm$ 0.015  $\chi^2$ /NDF: 1801515.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 37.384 $\pm$ 0.015  $\chi^2$ /NDF: 1257099.3/9

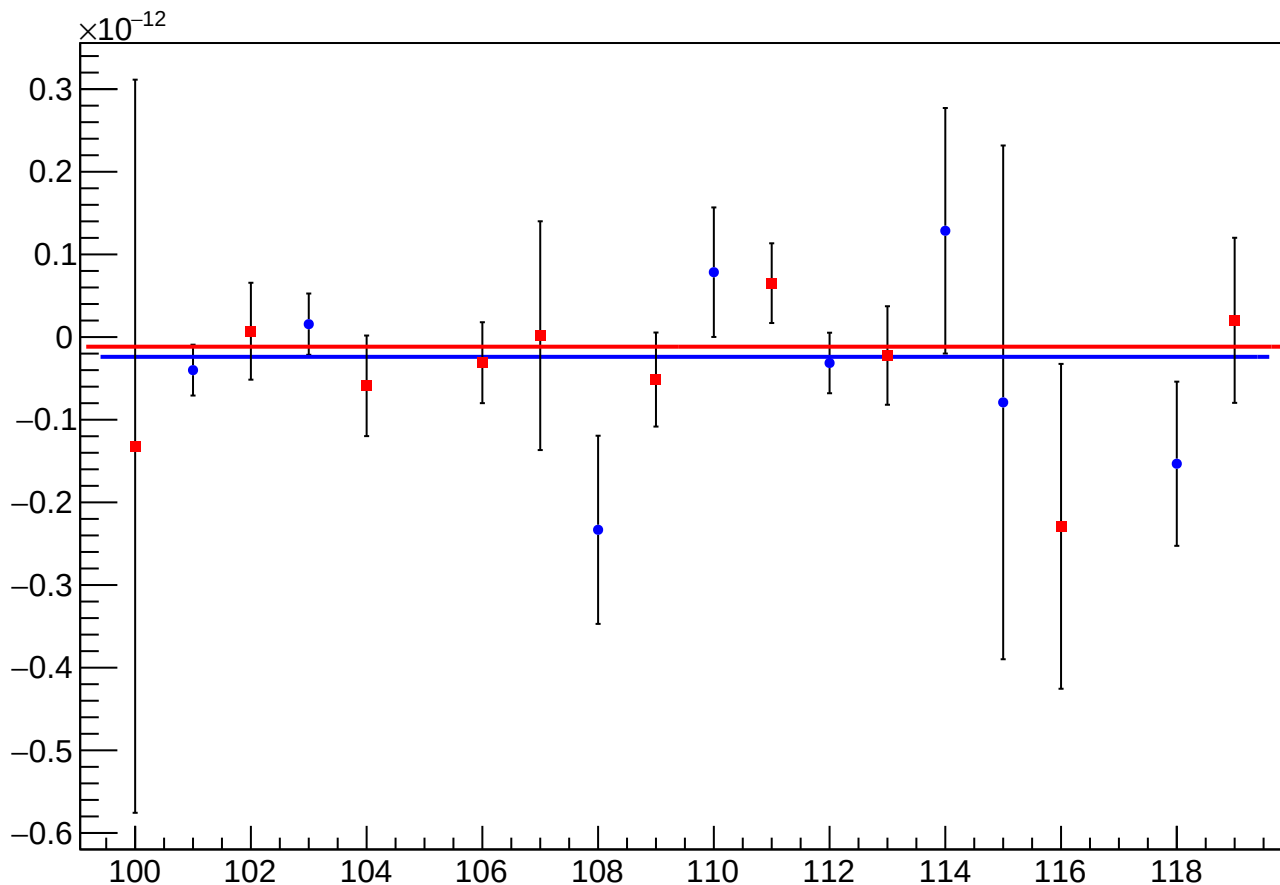
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 34.868 $\pm$ 0.011  $\chi^2$ /NDF: 3119192.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.3/9

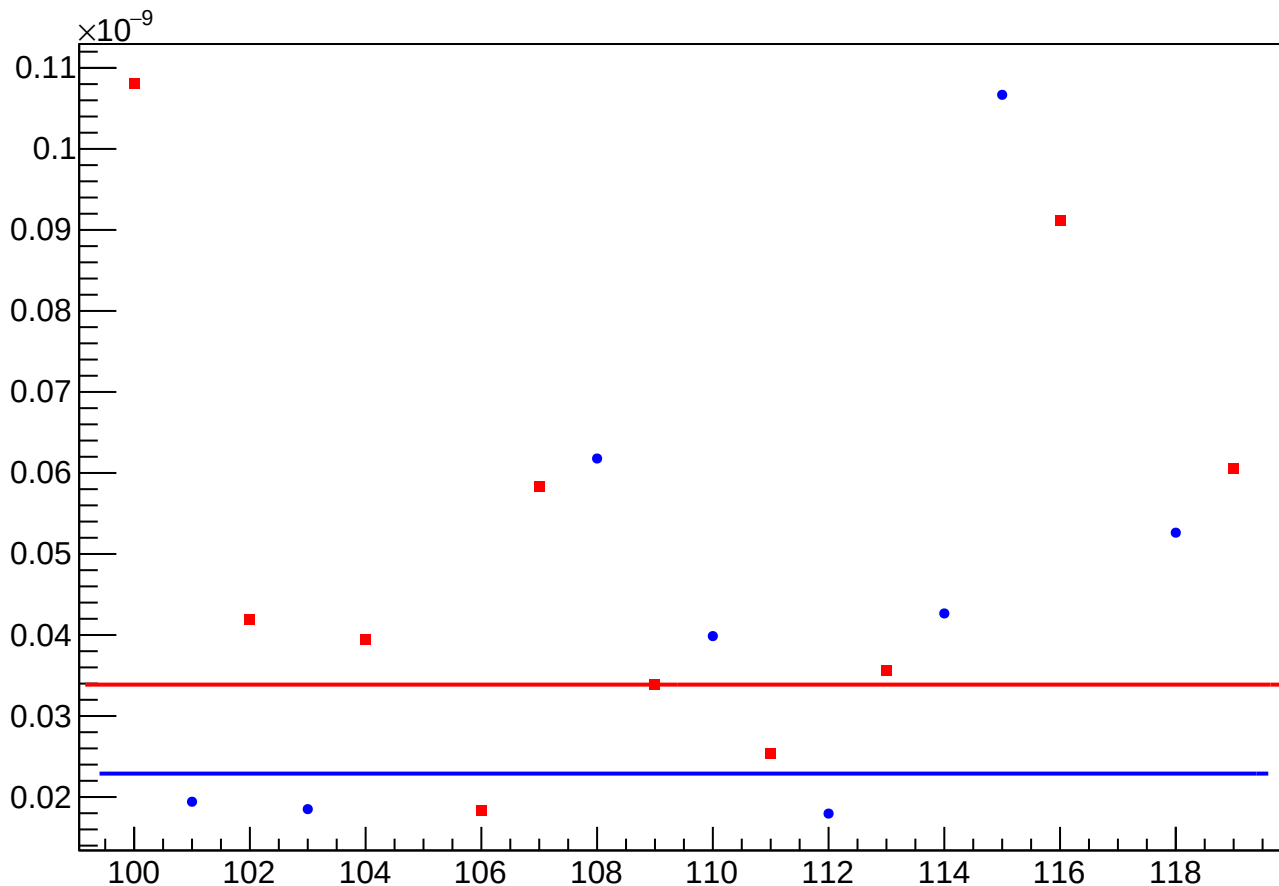
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.8/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 777209.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 751474.4/9

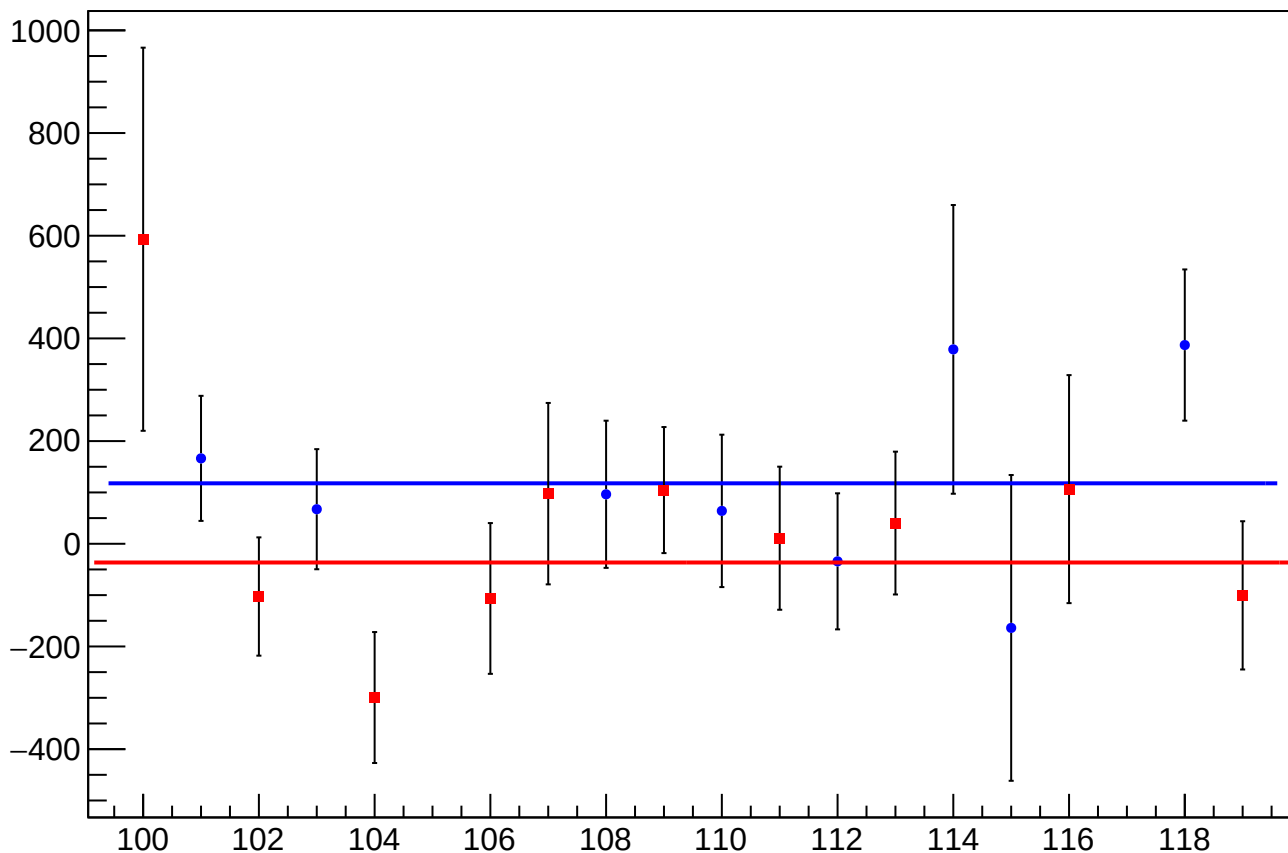
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1830313.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 117.757 $\pm$ 52.589  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -36.464 $\pm$ 46.613  $\chi^2$ /NDF: 10.6/9

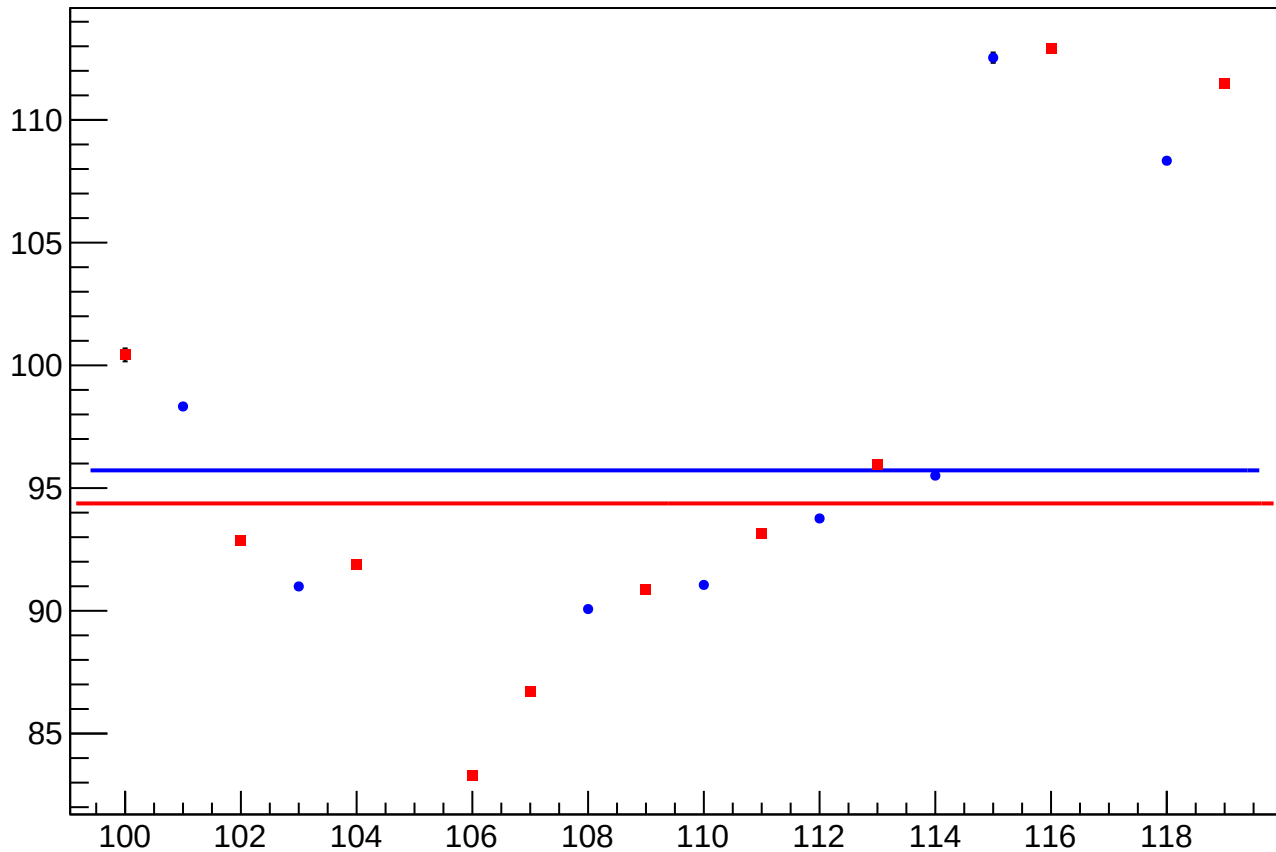
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.389 $\pm$ 34.883  $\chi^2$ /NDF: 22.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 95.722+/-0.037  $\chi^2/\text{NDF}$ : 30759.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.375+/-0.033  $\chi^2/\text{NDF}$ : 60788.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

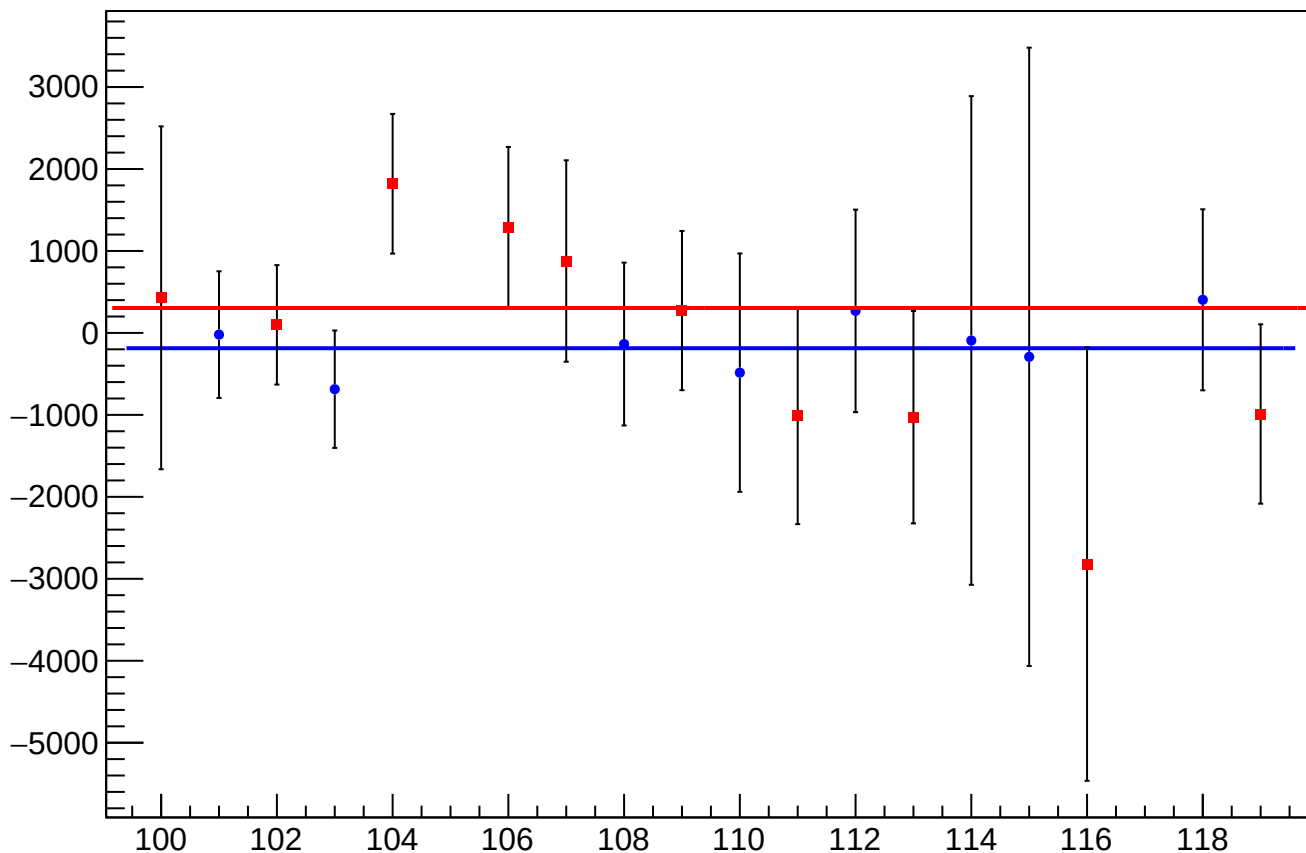
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.968+/-0.025  $\chi^2/\text{NDF}$ : 92283.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_15\_dd\_reg\_correction\_mean vs Slug



Right In: -186.730+/-384.410  $\chi^2/\text{NDF}$ : 1.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 304.174+/-345.394  $\chi^2/\text{NDF}$ : 9.3/9

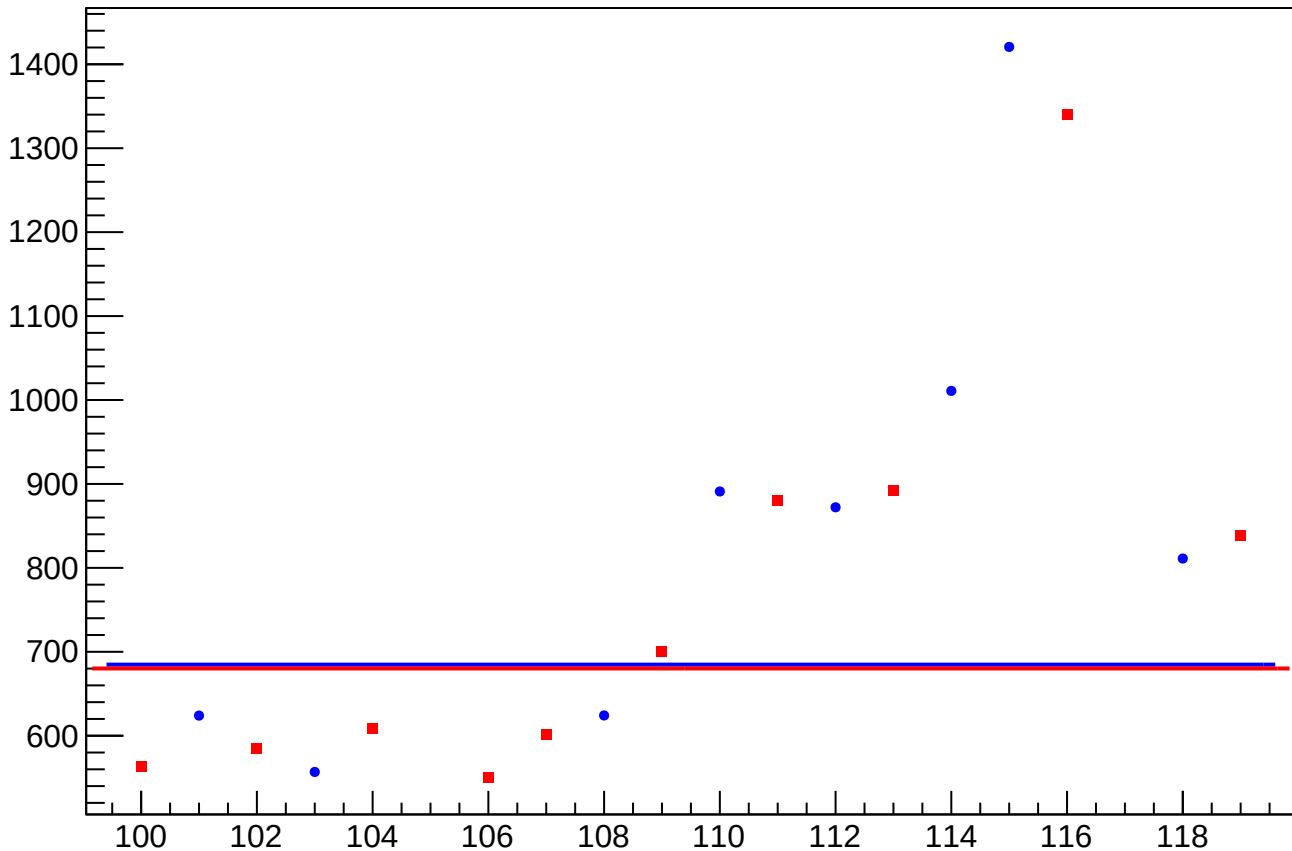
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 84.891+/-256.920  $\chi^2/\text{NDF}$ : 11.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_reg\_correction\_rms vs Slug



Right In: 684.720 $\pm$ 0.272  $\chi^2$ /NDF: 296078.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 680.121 $\pm$ 0.244  $\chi^2$ /NDF: 362995.7/9

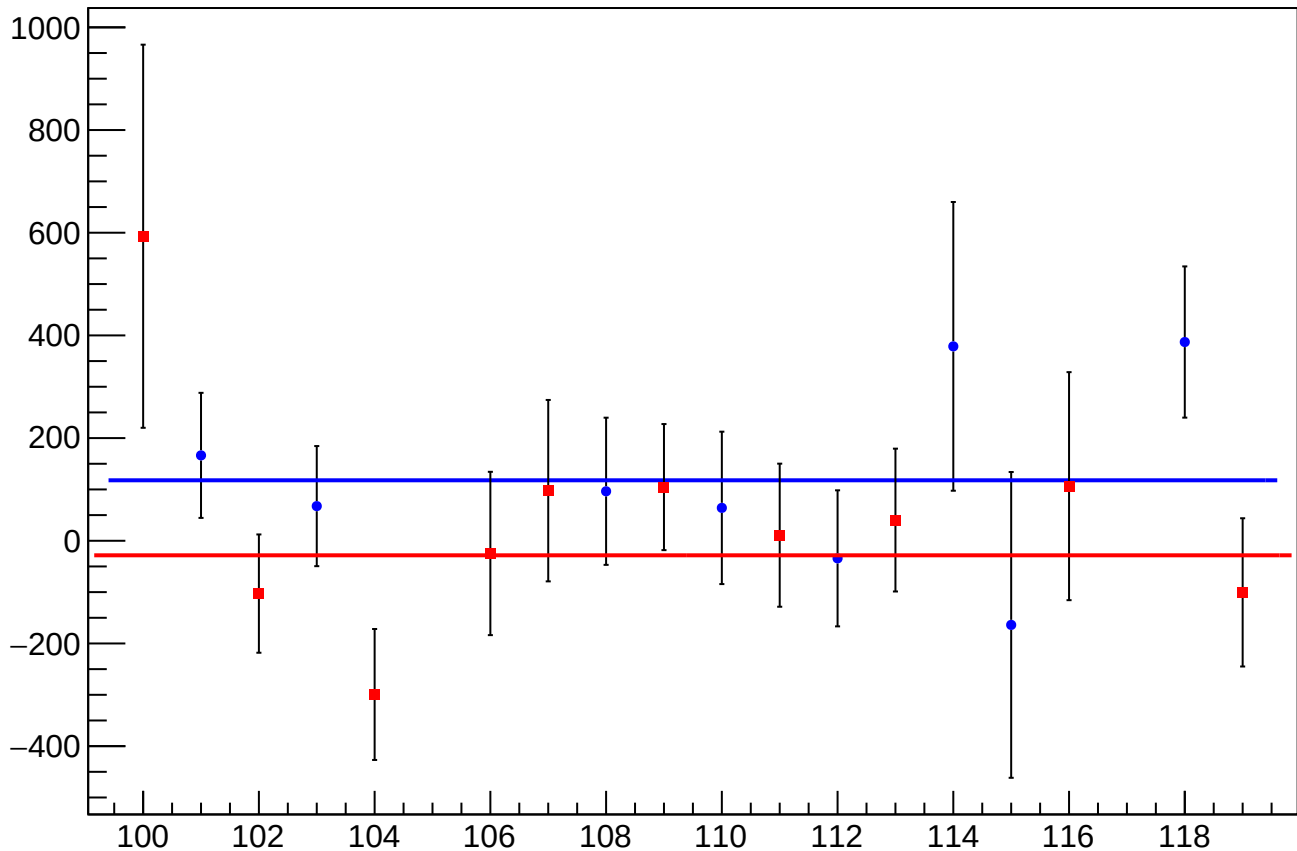
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 682.175 $\pm$ 0.182  $\chi^2$ /NDF: 659232.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 117.802 $\pm$ 52.589  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -28.296 $\pm$ 46.964  $\chi^2$ /NDF: 10.3/9

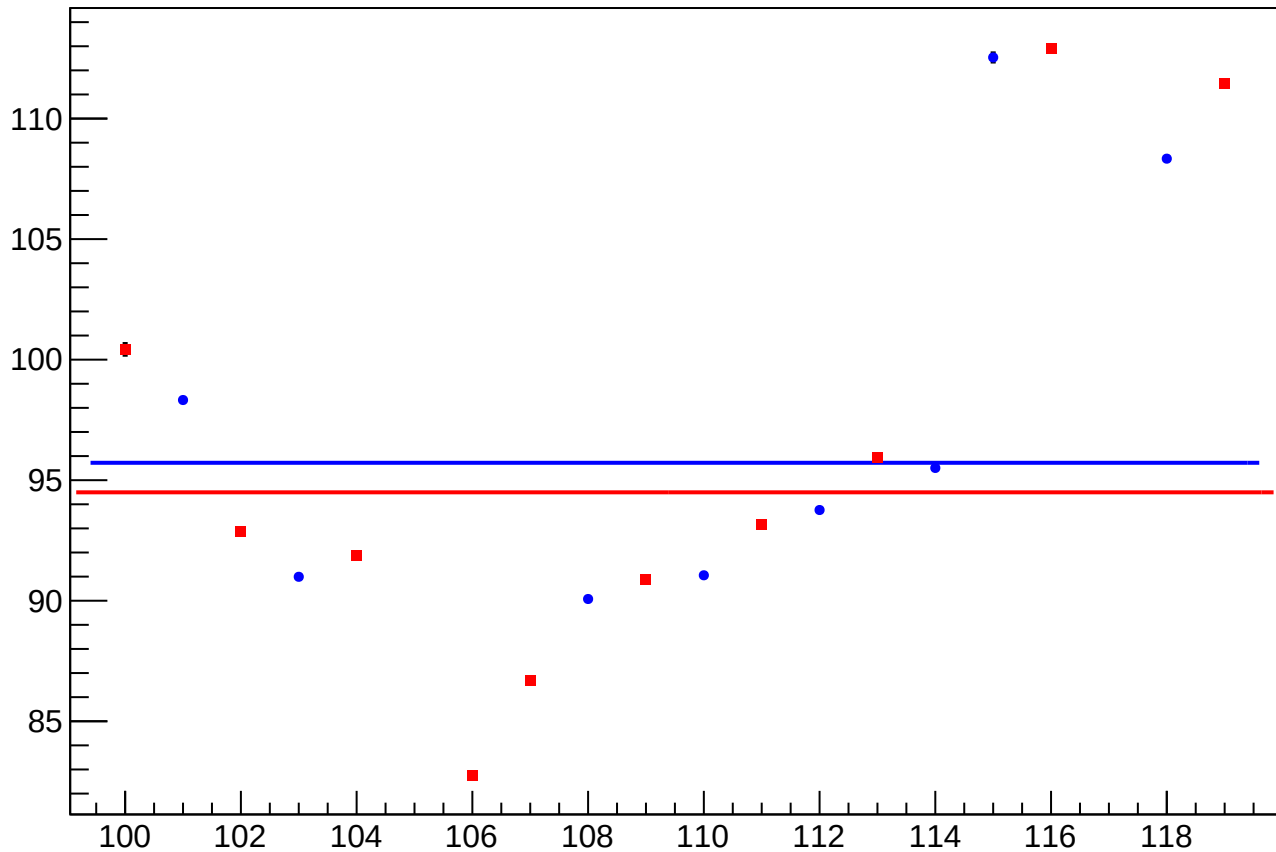
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 36.524 $\pm$ 35.029  $\chi^2$ /NDF: 21.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 95.722+/-0.037  $\chi^2/\text{NDF}$ : 30759.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.496+/-0.033  $\chi^2/\text{NDF}$ : 60049.6/9

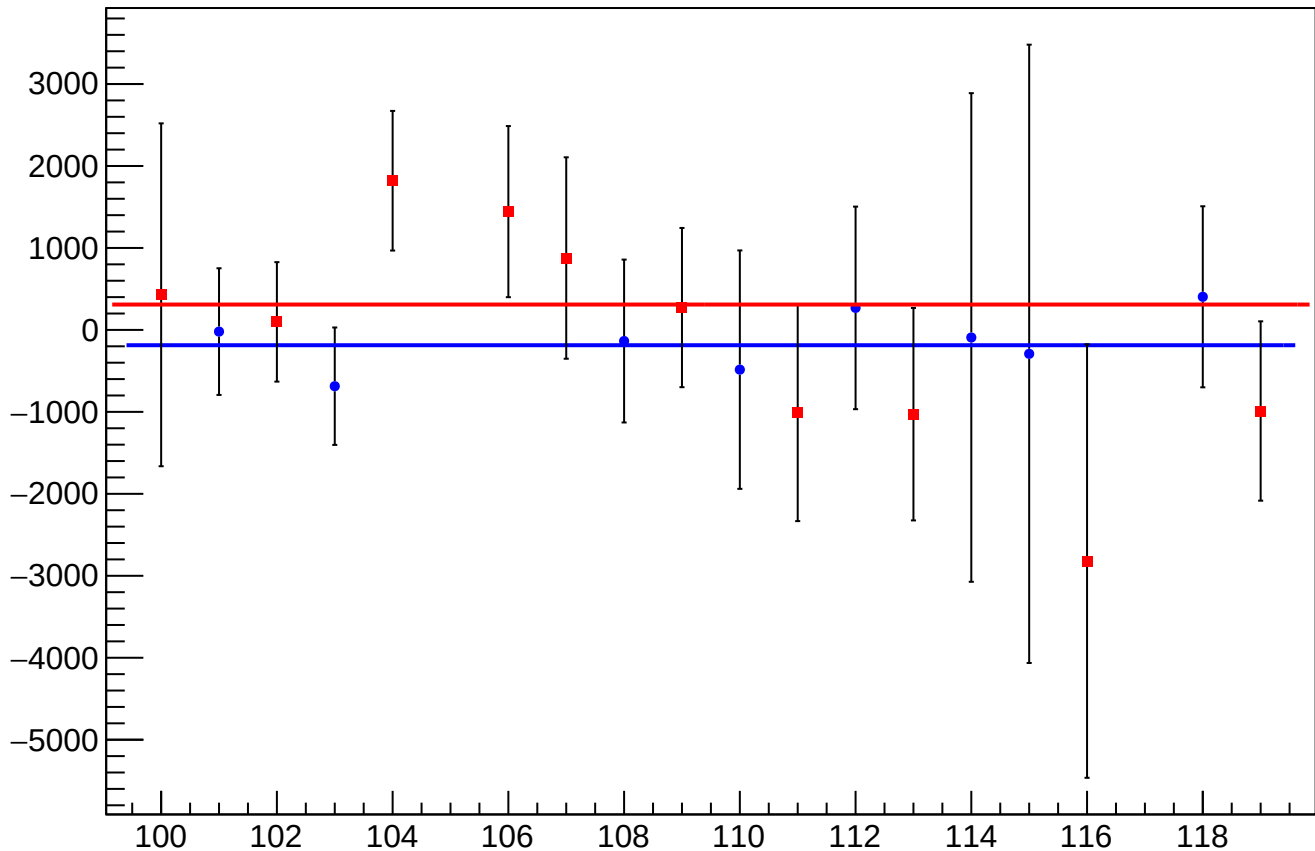
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.040+/-0.025  $\chi^2/\text{NDF}$ : 91413.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_cor\_correction\_mean vs Slug



Right In: -186.723+/-384.410  $\chi^2/\text{NDF}$ : 1.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 309.535+/-347.616  $\chi^2/\text{NDF}$ : 9.5/9

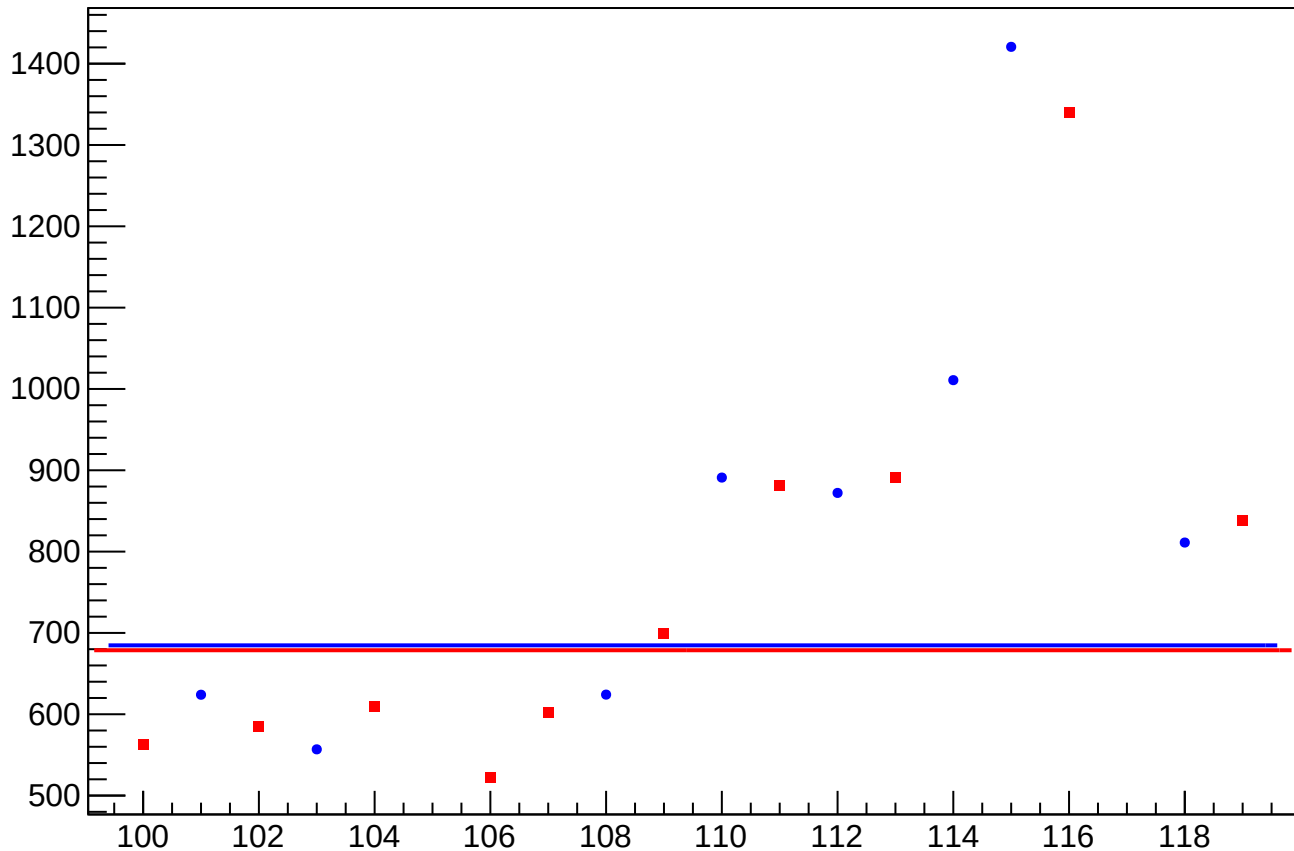
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 86.287+/-257.831  $\chi^2/\text{NDF}$ : 11.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_cor\_correction\_rms vs Slug



Right In: 684.719+/-0.272  $\chi^2/\text{NDF}$ : 296081.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 678.700+/-0.246  $\chi^2/\text{NDF}$ : 374091.5/9

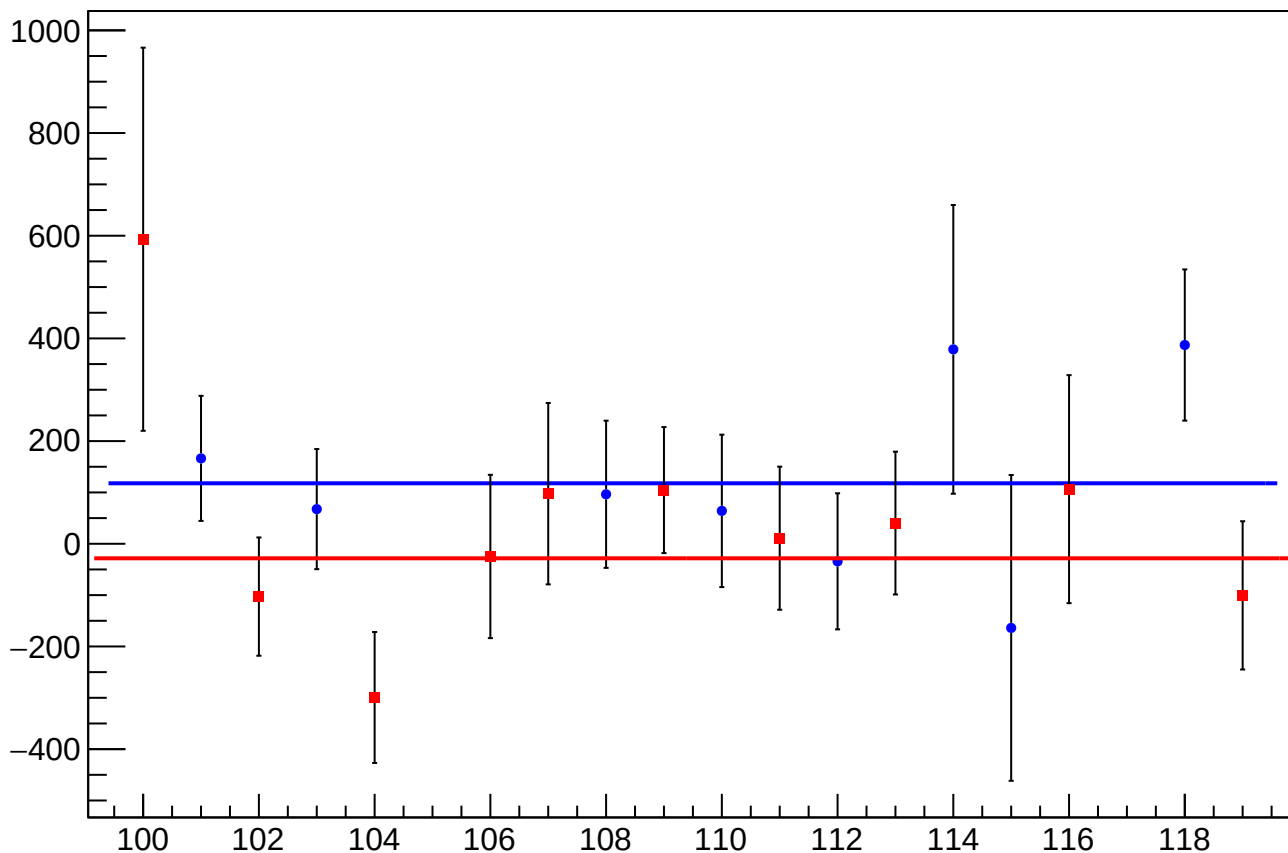
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 681.408+/-0.182  $\chi^2/\text{NDF}$ : 670442.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 117.802 $\pm$ 52.589  $\chi^2$ /NDF: 6.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -28.296 $\pm$ 46.964  $\chi^2$ /NDF: 10.3/9

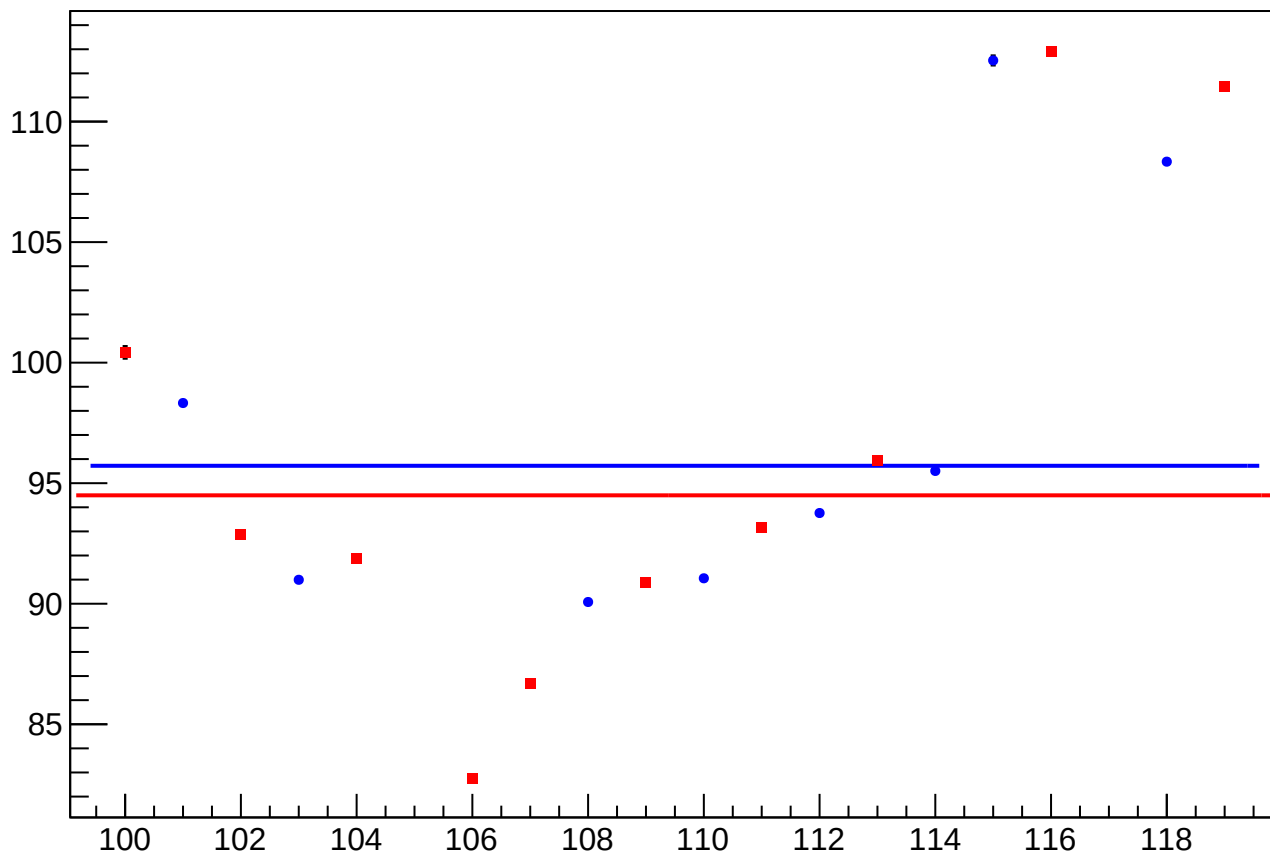
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 36.524 $\pm$ 35.029  $\chi^2$ /NDF: 21.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 95.722 $\pm$ 0.037  $\chi^2$ /NDF: 30759.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 94.496 $\pm$ 0.033  $\chi^2$ /NDF: 60049.6/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

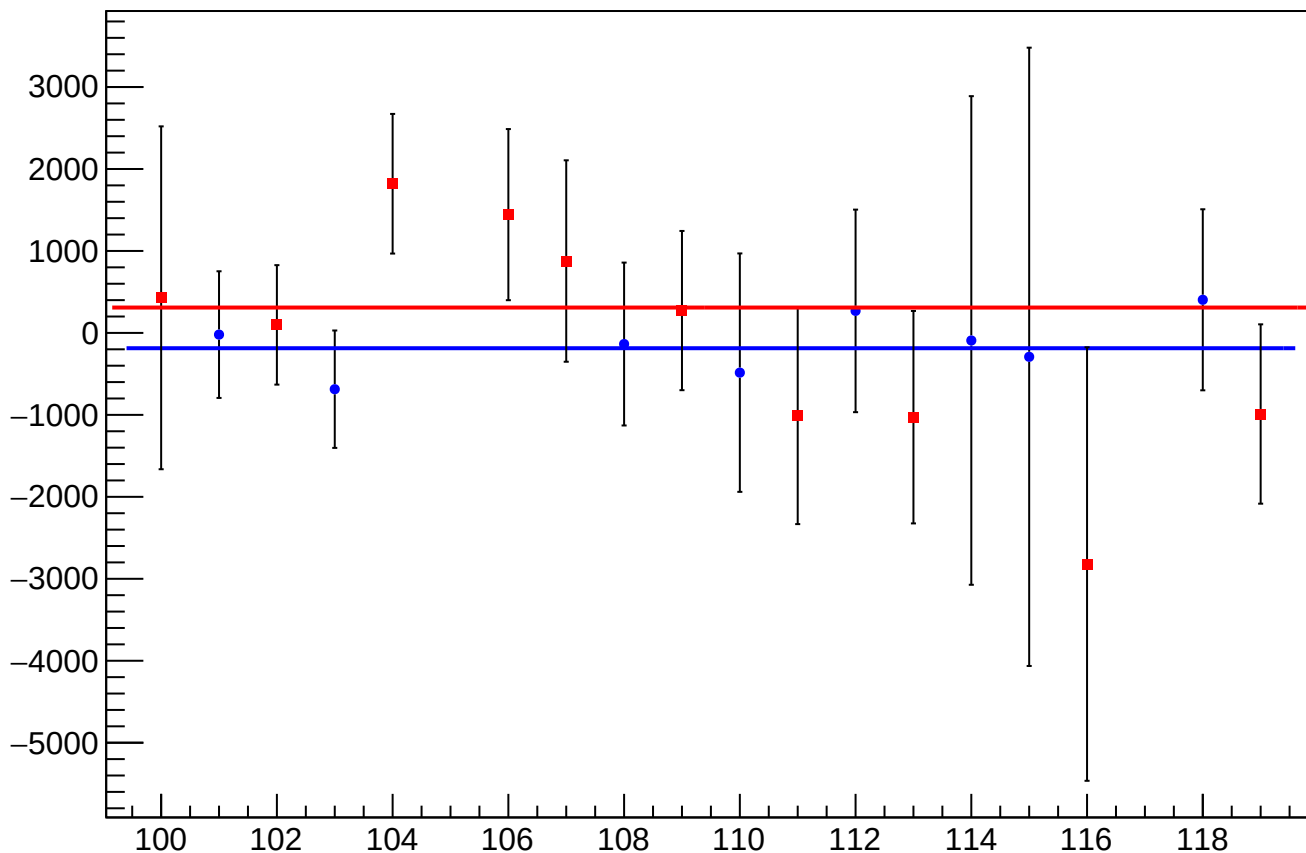
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 95.040 $\pm$ 0.025  $\chi^2$ /NDF: 91413.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -186.723+/-384.410  $\chi^2/\text{NDF}$ : 1.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 309.535+/-347.616  $\chi^2/\text{NDF}$ : 9.5/9

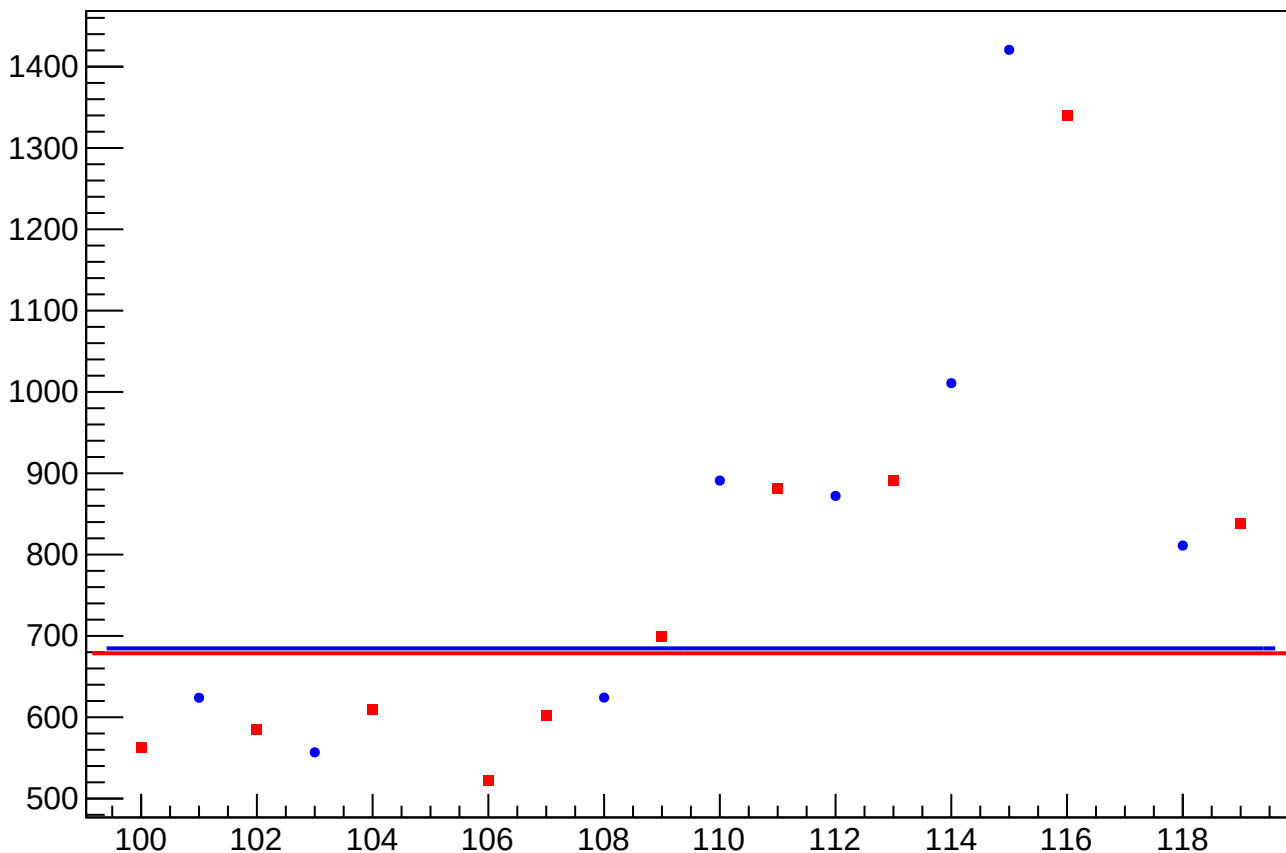
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 86.287+/-257.831  $\chi^2/\text{NDF}$ : 11.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 684.719+/-0.272  $\chi^2/\text{NDF}$ : 296081.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 678.700+/-0.246  $\chi^2/\text{NDF}$ : 374091.5/9

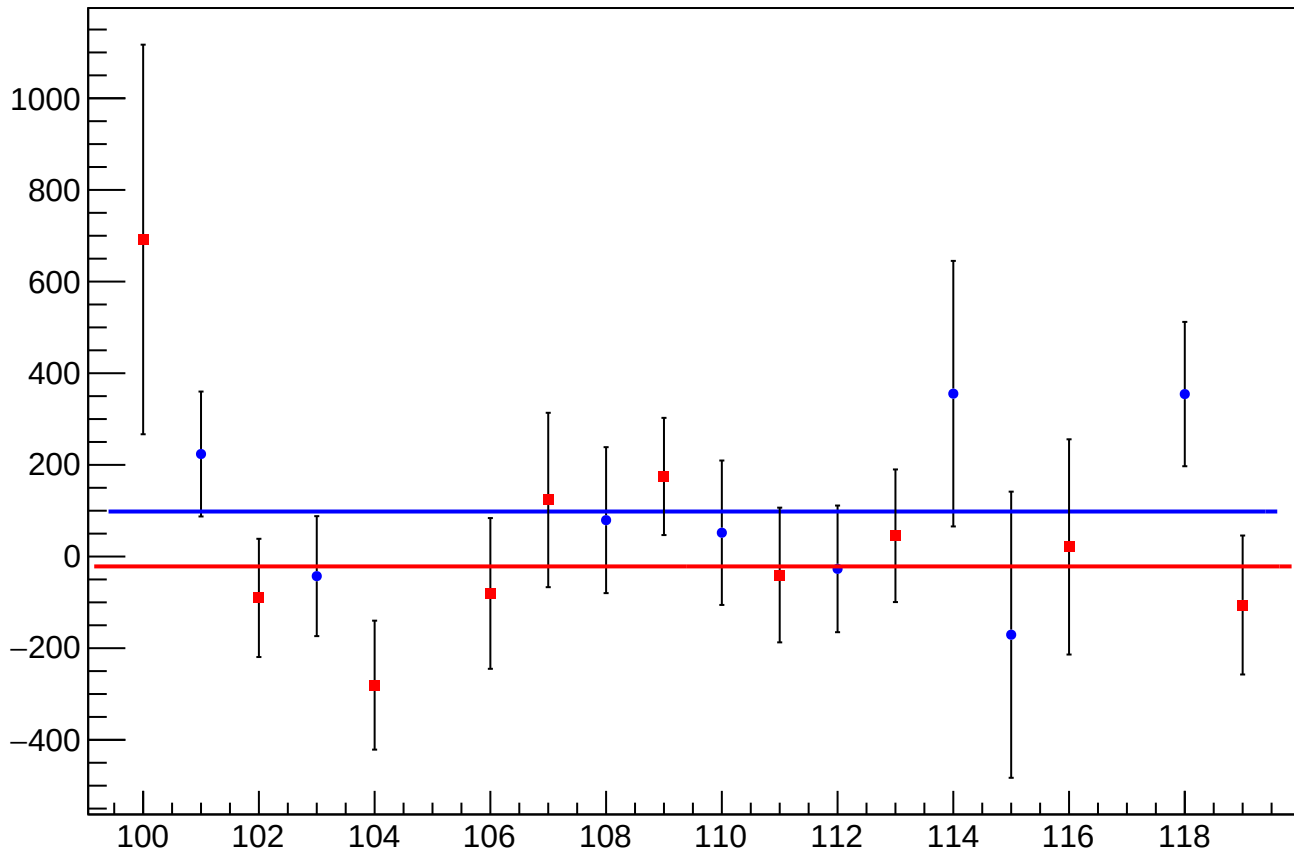
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 681.408+/-0.182  $\chi^2/\text{NDF}$ : 670442.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 98.244+/-57.095  $\chi^2/\text{NDF}$ : 7.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -21.560+/-50.153  $\chi^2/\text{NDF}$ : 10.1/9

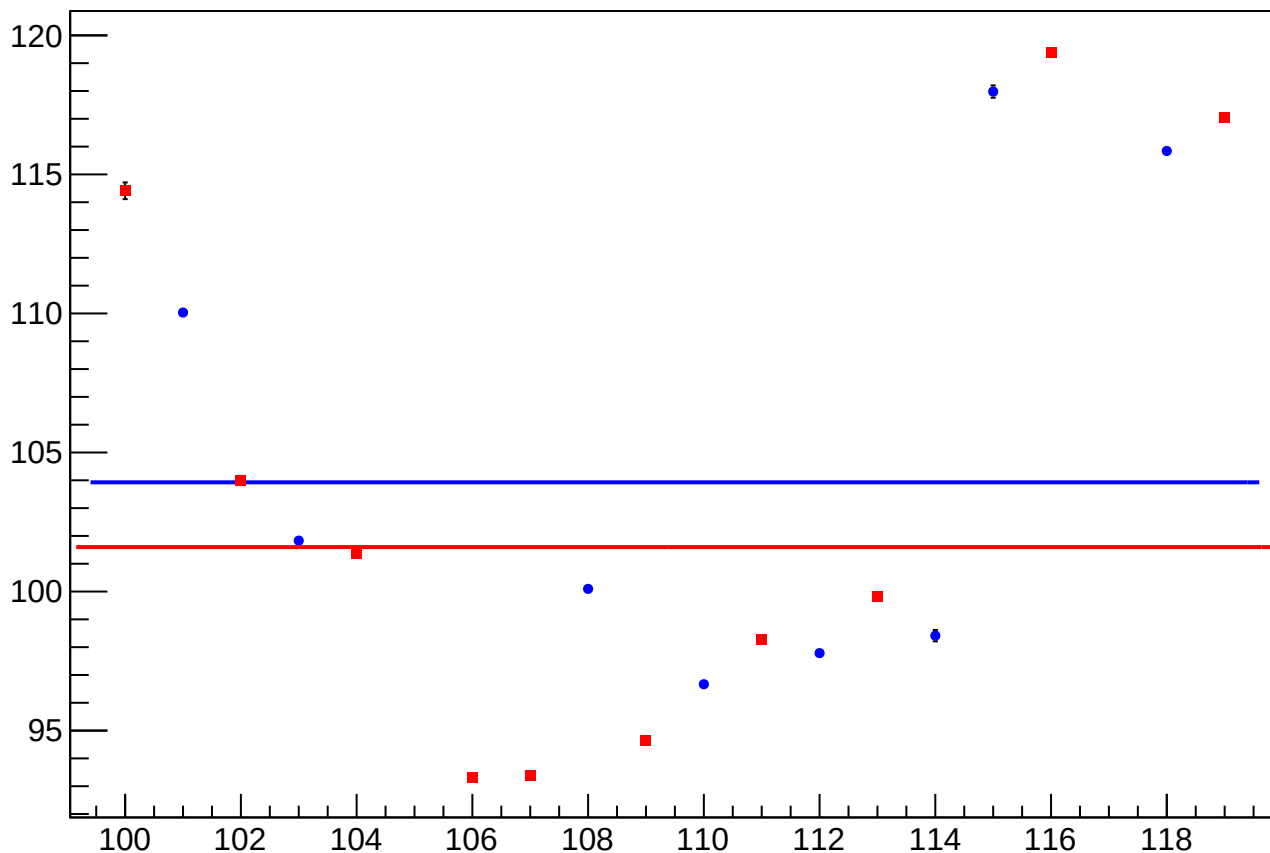
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.620+/-37.680  $\chi^2/\text{NDF}$ : 19.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 103.928+/-0.040  $\chi^2/\text{NDF}$ : 30105.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 101.600+/-0.035  $\chi^2/\text{NDF}$ : 50840.7/9

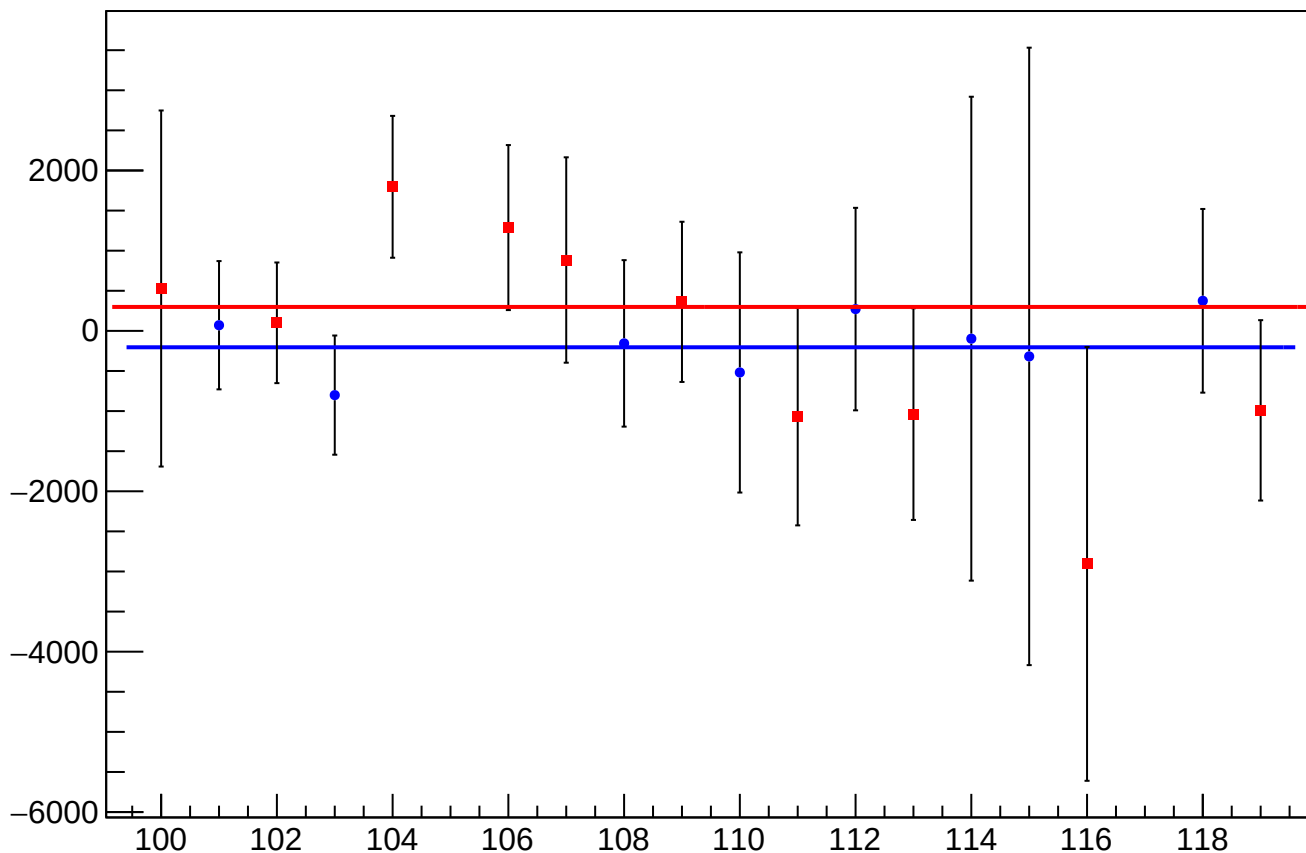
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 102.614+/-0.027  $\chi^2/\text{NDF}$ : 82823.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_dit\_correction\_mean vs Slug



Right In: -204.453+/-397.930  $\chi^2/\text{NDF}$ : 1.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 298.642+/-356.918  $\chi^2/\text{NDF}$ : 8.8/9

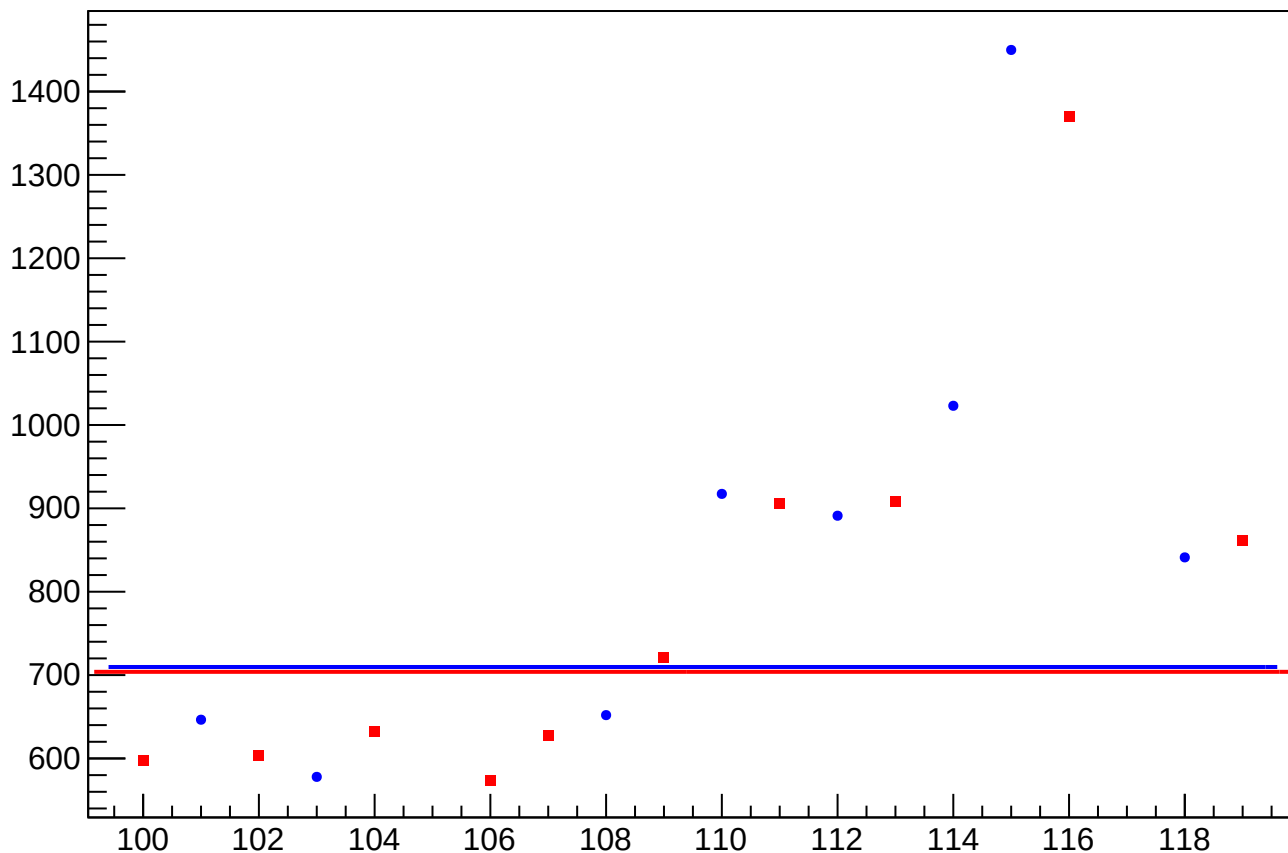
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.348+/-265.699  $\chi^2/\text{NDF}$ : 10.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_dit\_correction\_rms vs Slug



Right In: 709.713+/-0.281  $\chi^2/\text{NDF}$ : 283244.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 703.910+/-0.252  $\chi^2/\text{NDF}$ : 345086.0/9

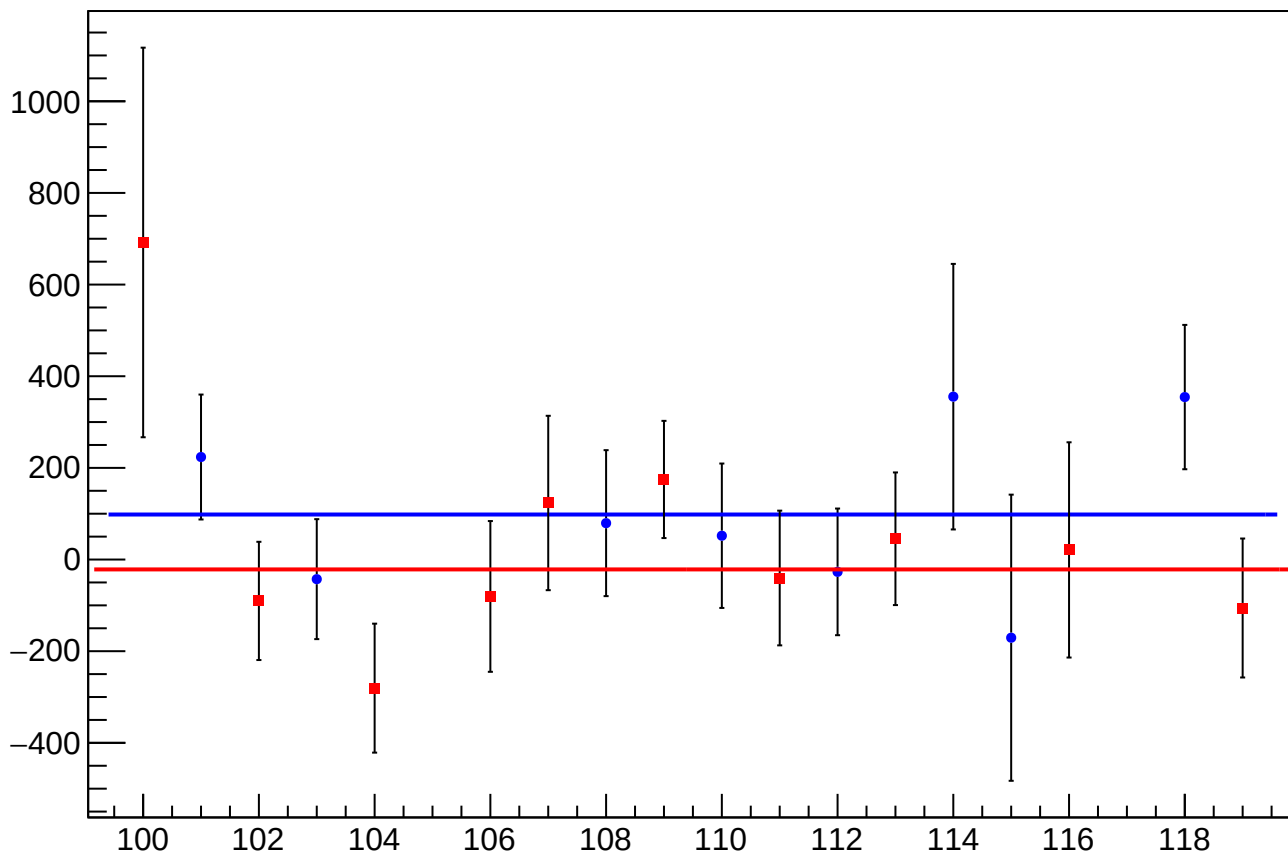
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 706.497+/-0.188  $\chi^2/\text{NDF}$ : 628565.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 98.244+/-57.095  $\chi^2/\text{NDF}$ : 7.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -21.559+/-50.153  $\chi^2/\text{NDF}$ : 10.1/9

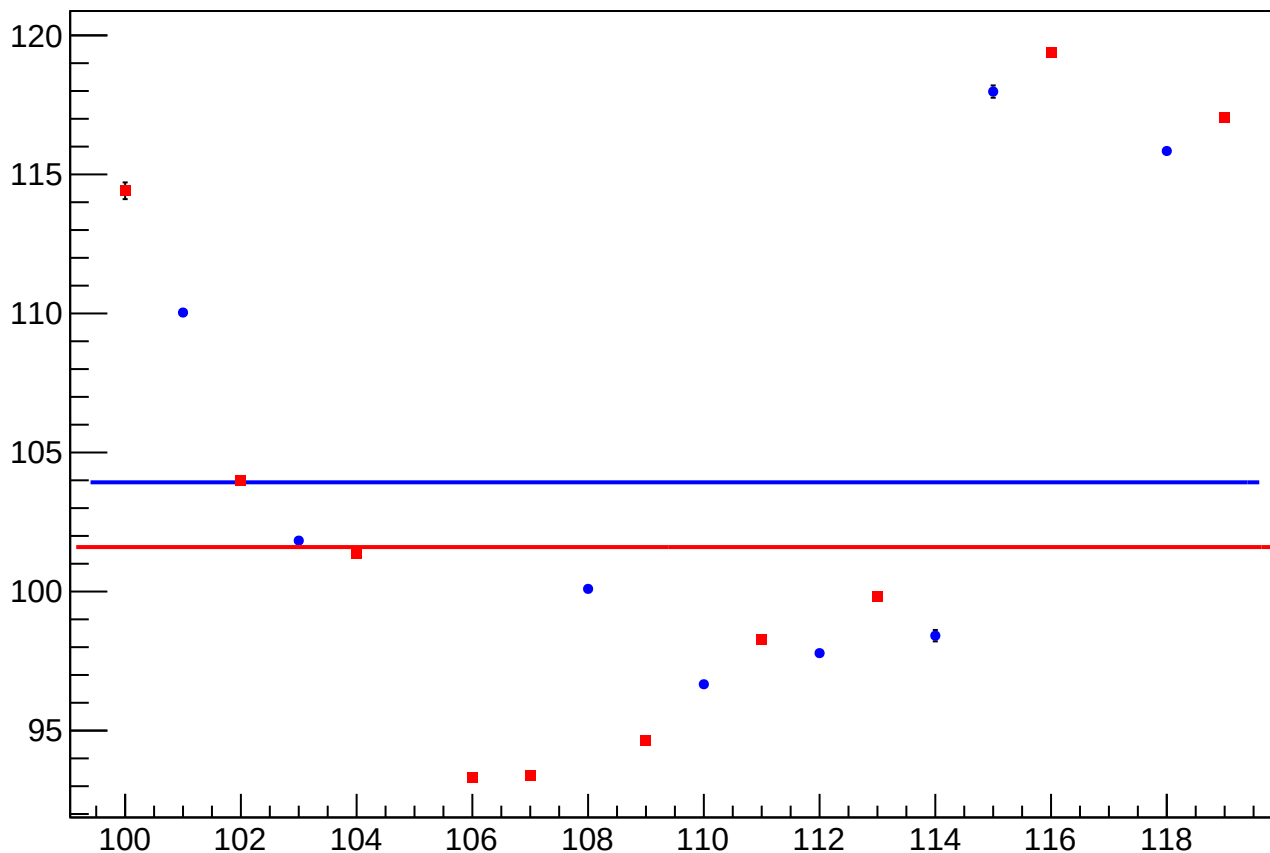
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.621+/-37.680  $\chi^2/\text{NDF}$ : 19.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 103.928+/-0.040  $\chi^2/\text{NDF}$ : 30105.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 101.600+/-0.035  $\chi^2/\text{NDF}$ : 50840.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

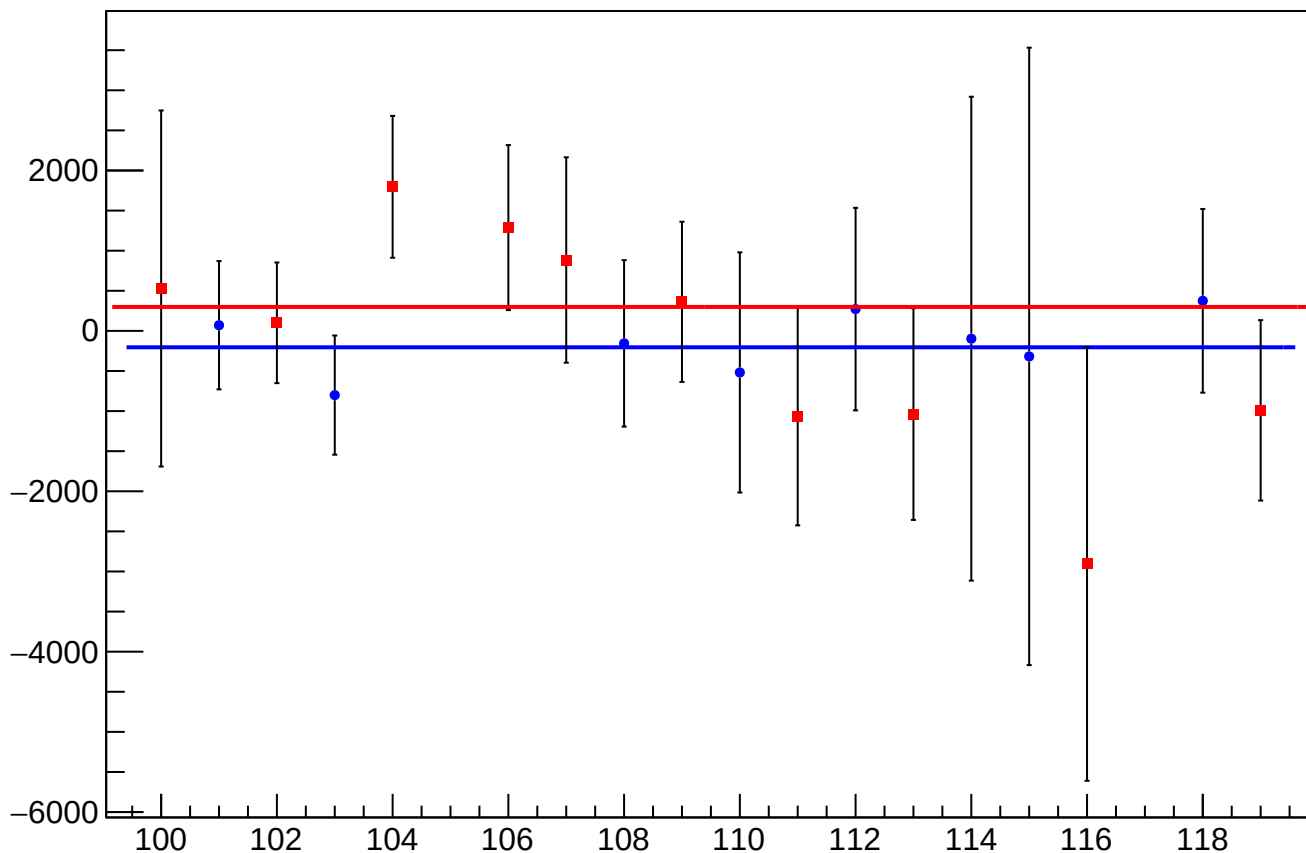
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 102.614+/-0.027  $\chi^2/\text{NDF}$ : 82823.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -204.452+/-397.929  $\chi^2/\text{NDF}$ : 1.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 298.642+/-356.918  $\chi^2/\text{NDF}$ : 8.8/9

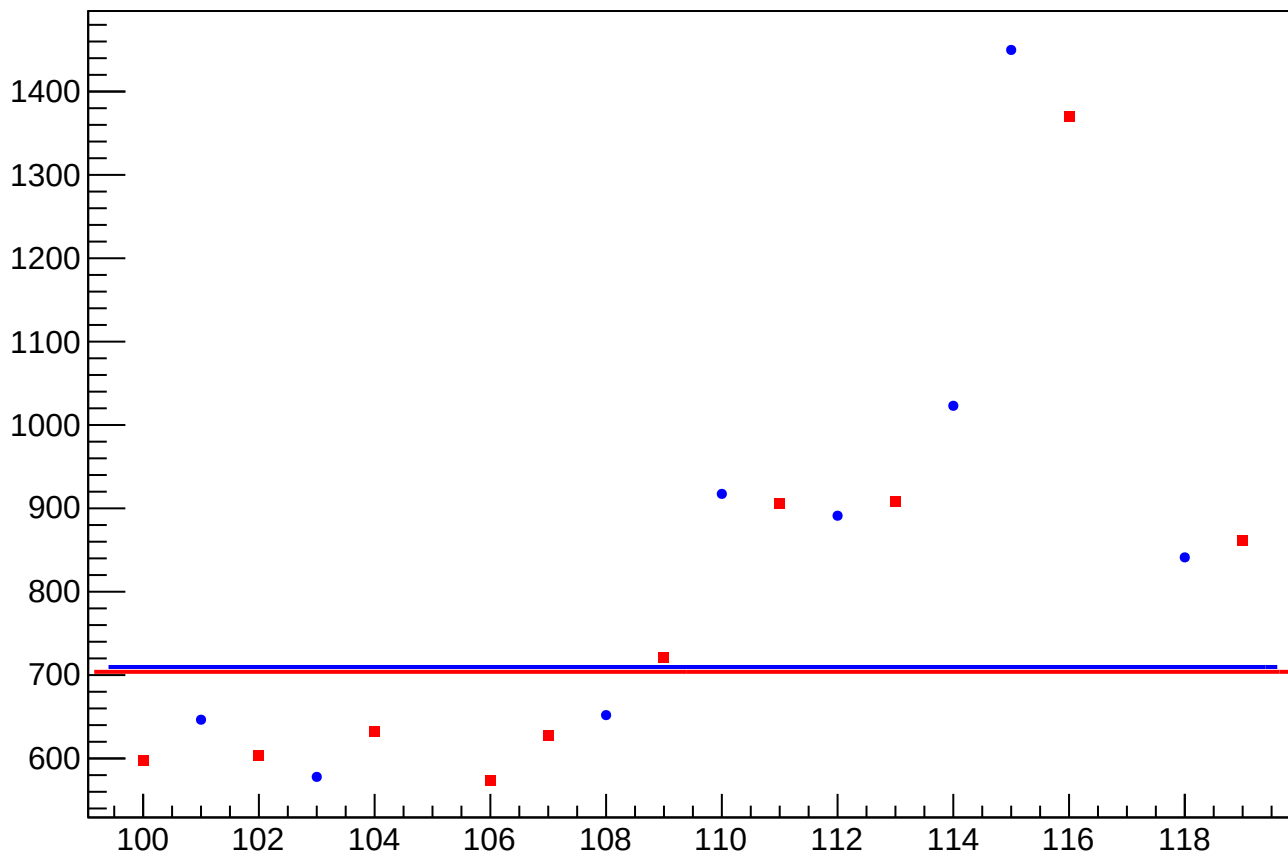
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.348+/-265.699  $\chi^2/\text{NDF}$ : 10.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 709.712+/-0.281  $\chi^2/\text{NDF}$ : 283243.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 703.909+/-0.252  $\chi^2/\text{NDF}$ : 345085.5/9

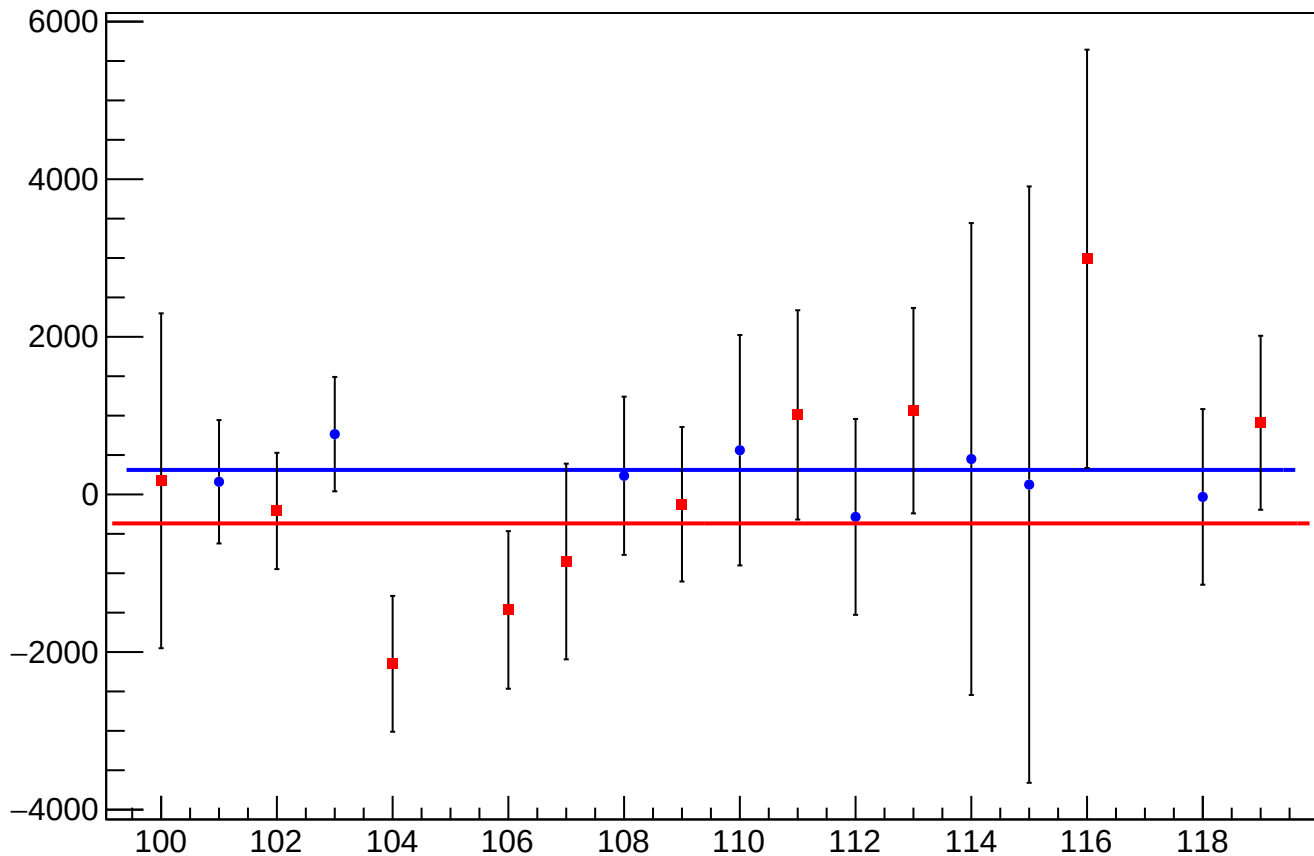
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 706.496+/-0.188  $\chi^2/\text{NDF}$ : 628565.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_mean vs Slug



Right In: 311.279+/-388.552  $\chi^2/\text{NDF}$ : 0.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -367.631+/-349.000  $\chi^2/\text{NDF}$ : 11.0/9

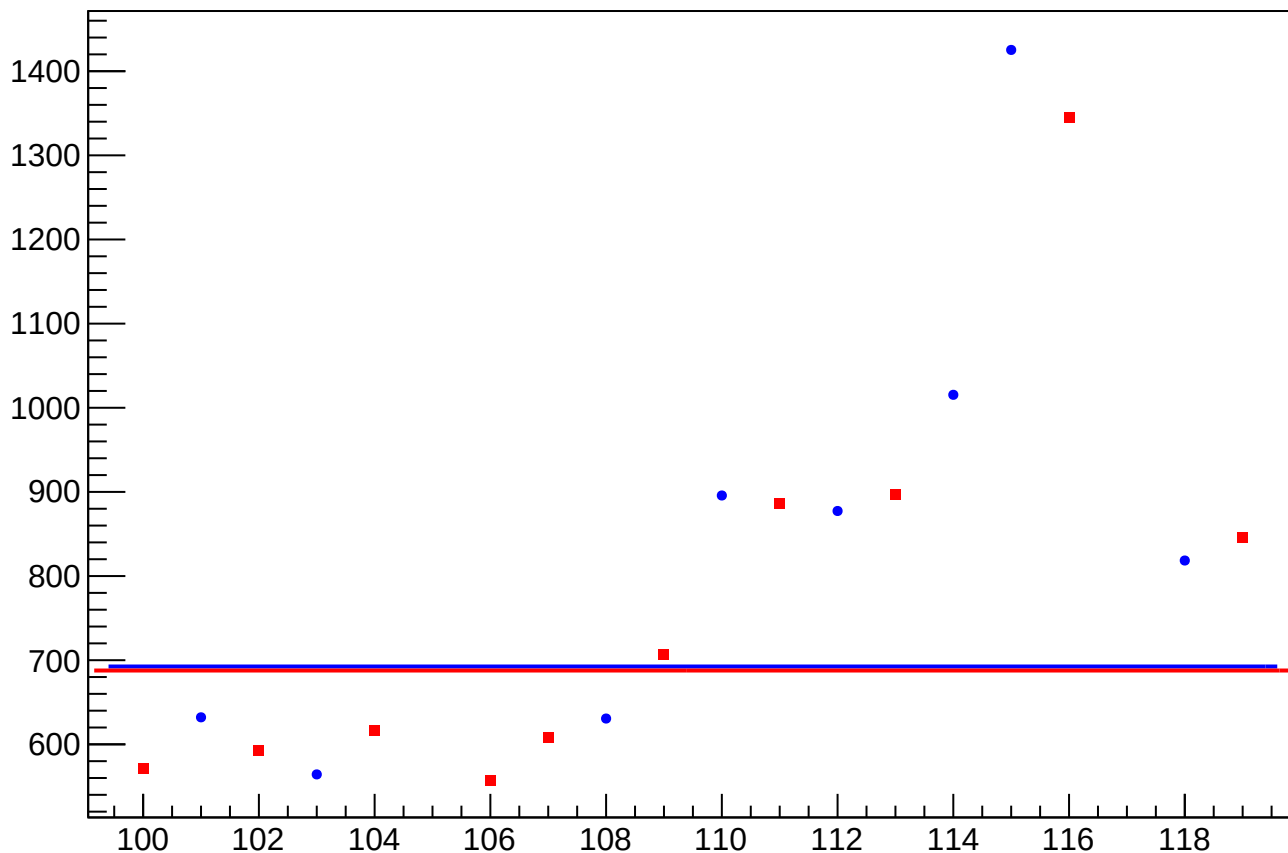
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -64.479+/-259.641  $\chi^2/\text{NDF}$ : 13.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_rms vs Slug



Right In: 692.500 $\pm$ 0.275  $\chi^2$ /NDF: 288615.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 687.735 $\pm$ 0.247  $\chi^2$ /NDF: 355320.2/9

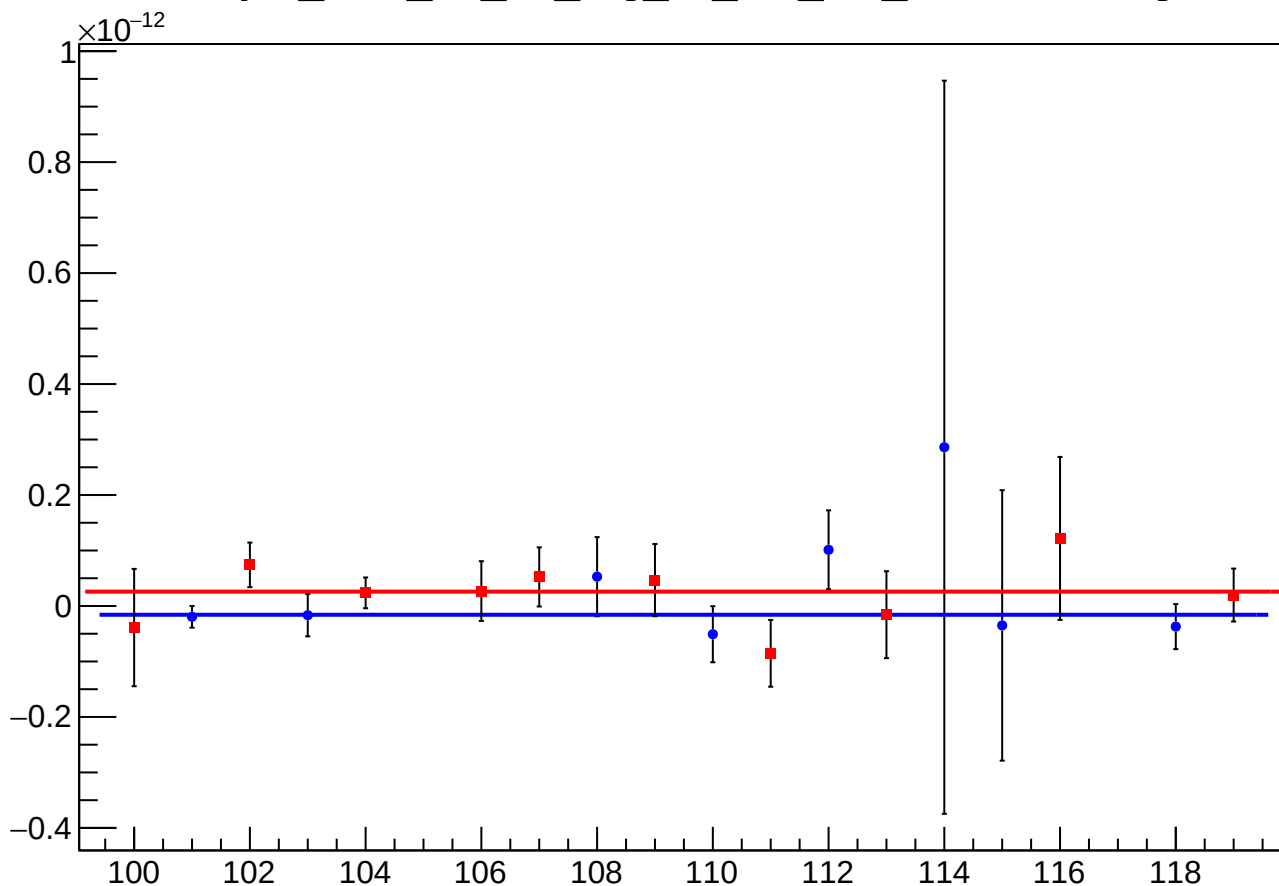
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 689.863 $\pm$ 0.184  $\chi^2$ /NDF: 644101.8/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 4.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.3/9

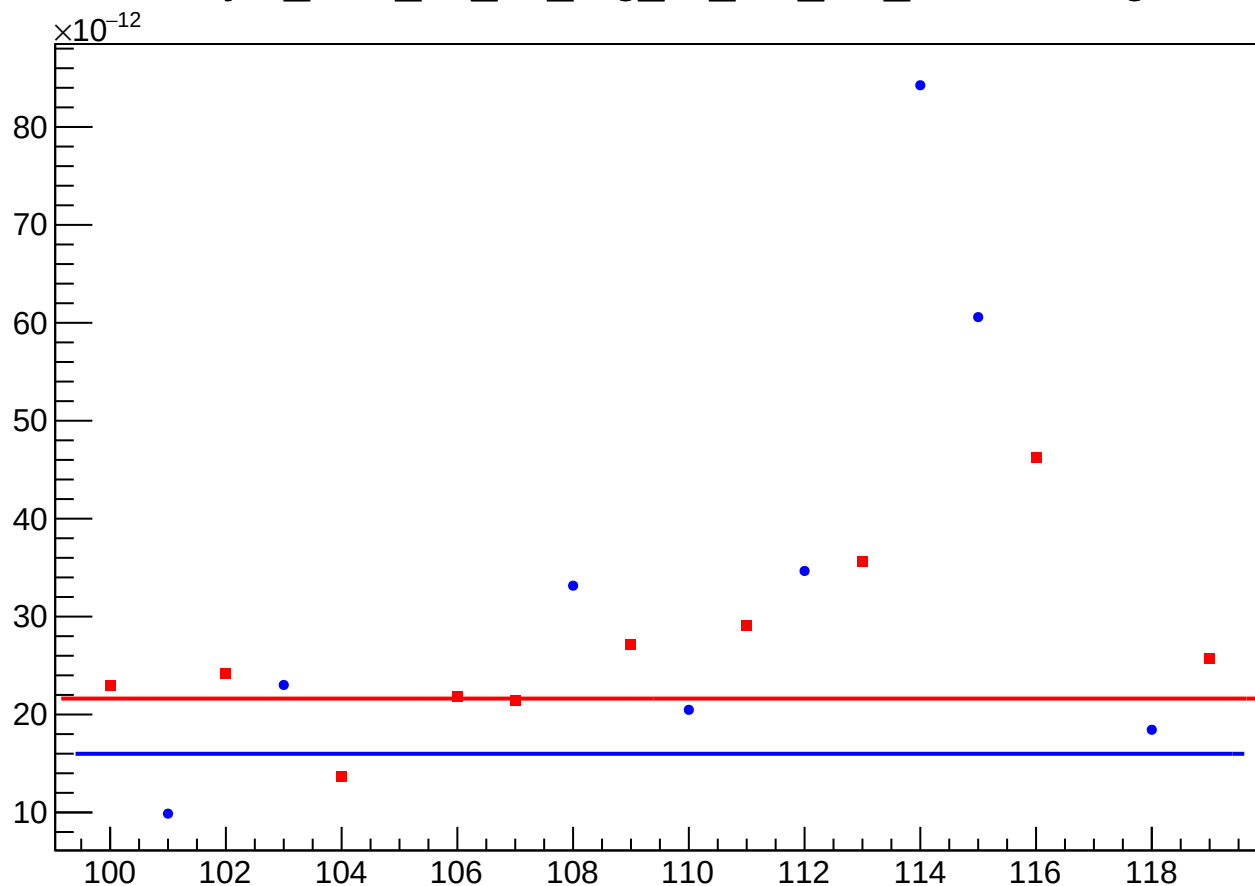
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 629470.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 352183.1/9

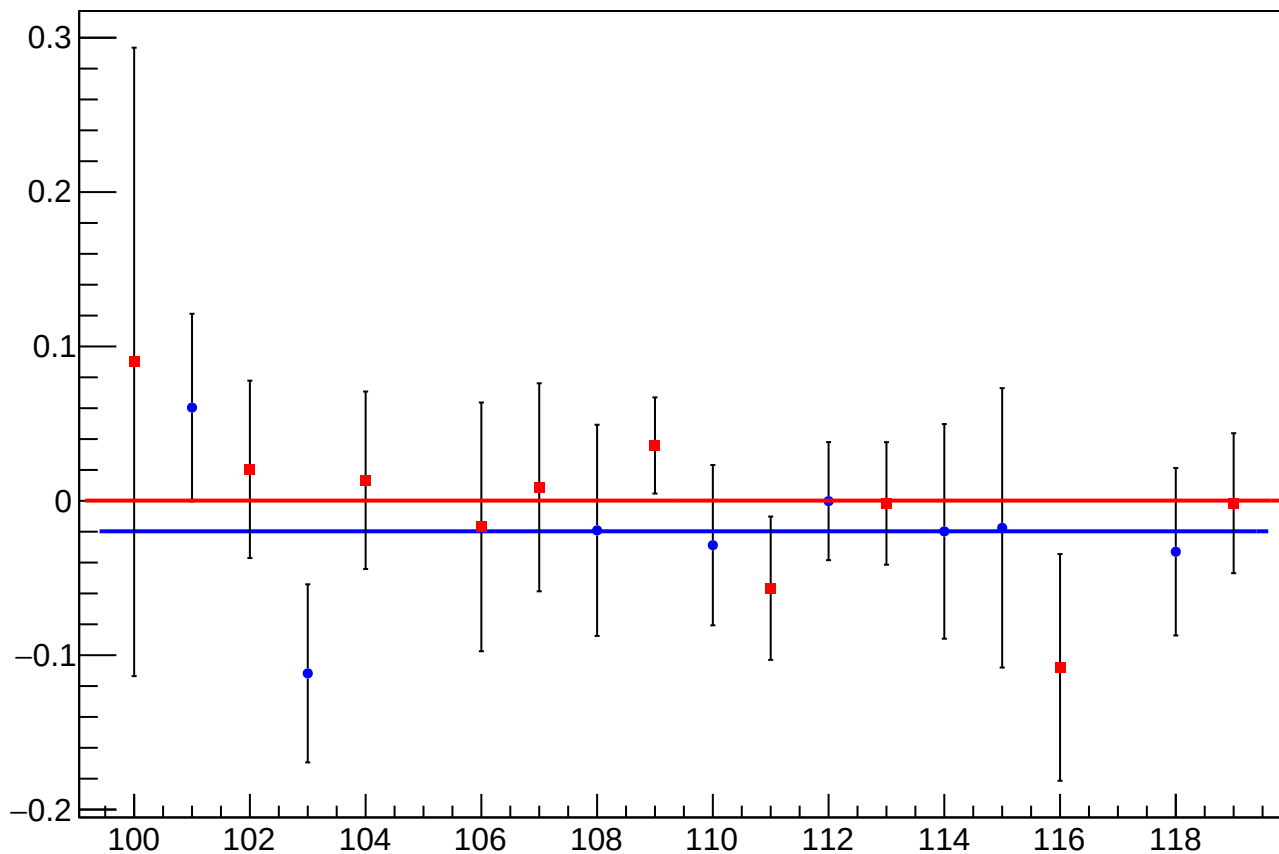
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1116905.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.020+/-0.020  $\chi^2/\text{NDF}$ : 4.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.016  $\chi^2/\text{NDF}$ : 5.4/9

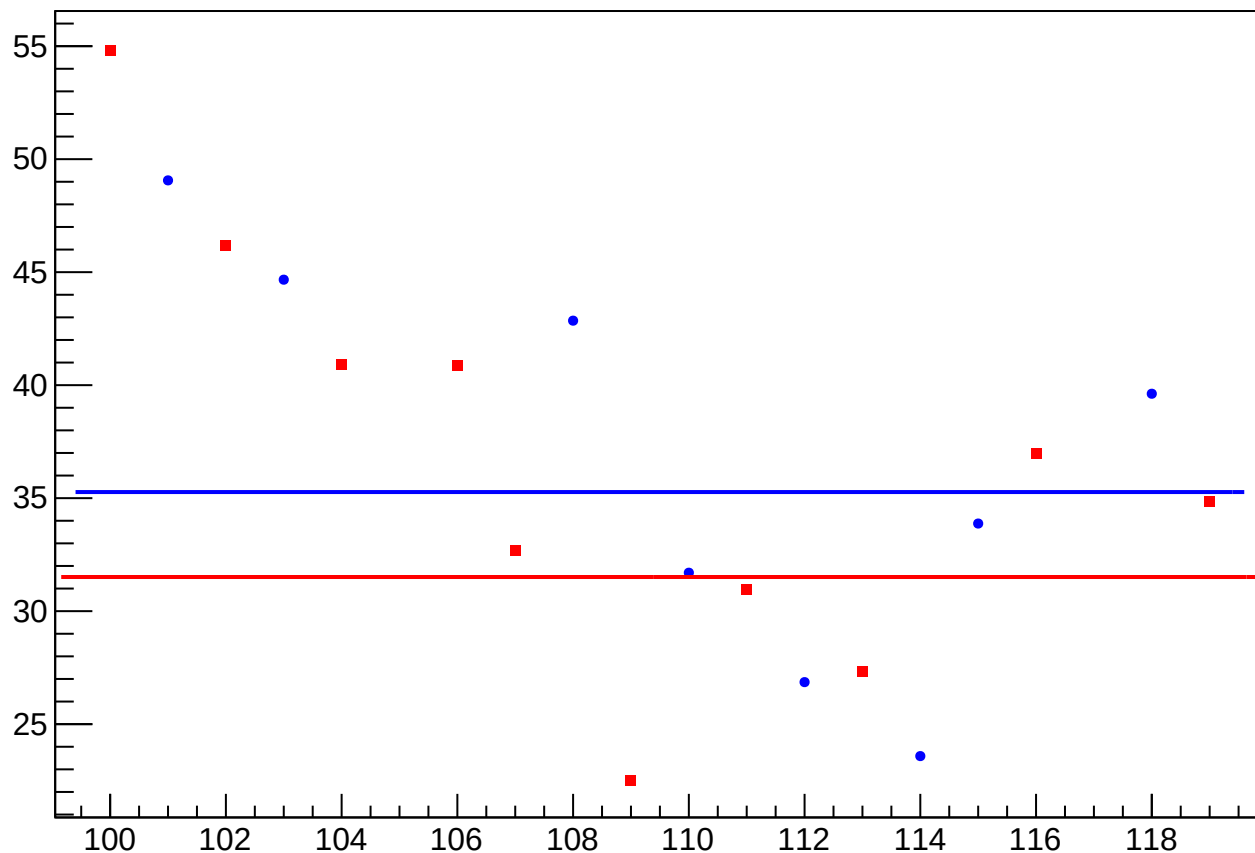
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.008+/-0.013  $\chi^2/\text{NDF}$ : 10.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 35.270 $\pm$ 0.014  $\chi^2$ /NDF: 356628.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 31.511 $\pm$ 0.011  $\chi^2$ /NDF: 449257.5/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

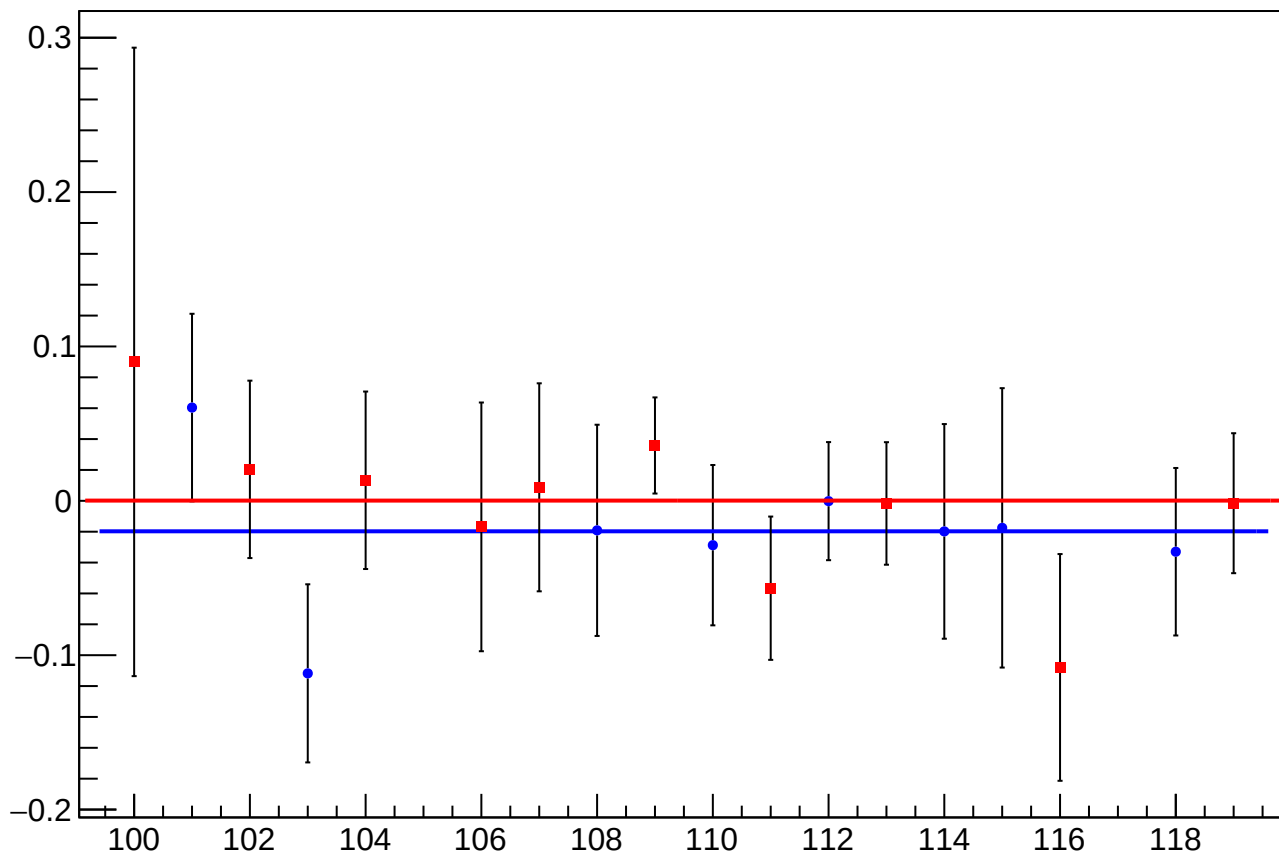
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.004 $\pm$ 0.009  $\chi^2$ /NDF: 848609.0/17

- 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: -0.020 $\pm$ 0.020  $\chi^2$ /NDF: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.016  $\chi^2$ /NDF: 5.4/9

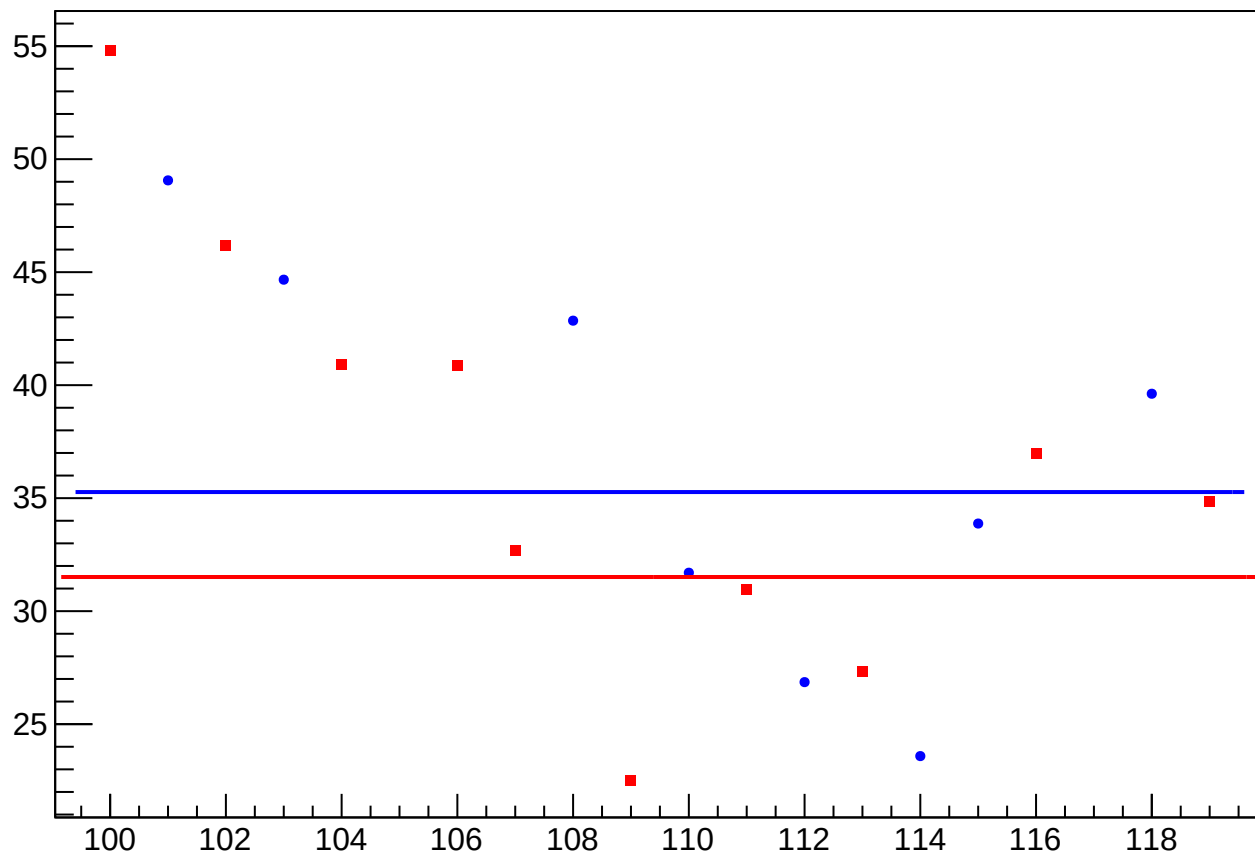
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.008 $\pm$ 0.013  $\chi^2$ /NDF: 10.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 35.270 $\pm$ 0.014  $\chi^2$ /NDF: 356628.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 31.511 $\pm$ 0.011  $\chi^2$ /NDF: 449257.5/9

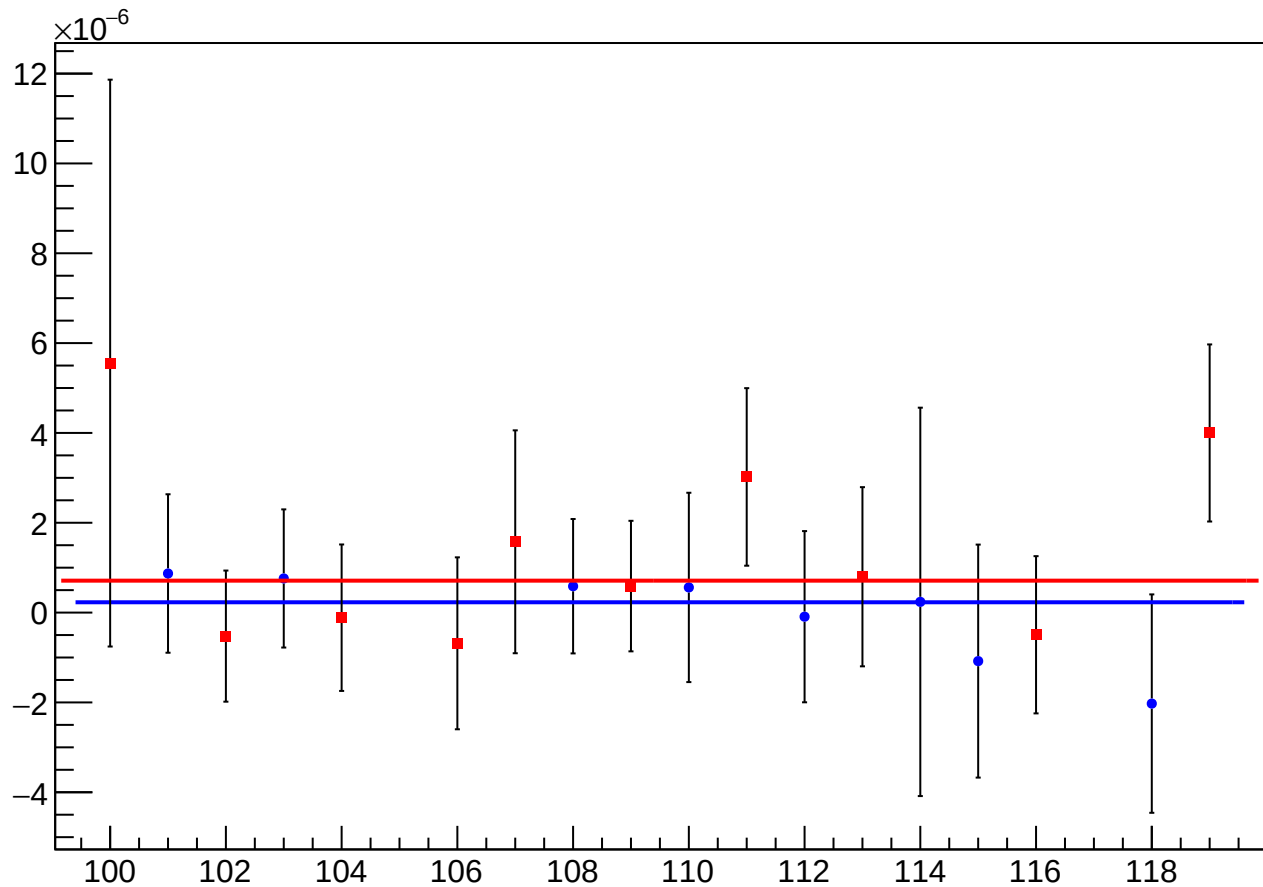
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.004 $\pm$ 0.009  $\chi^2$ /NDF: 848609.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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: 1.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.8/9

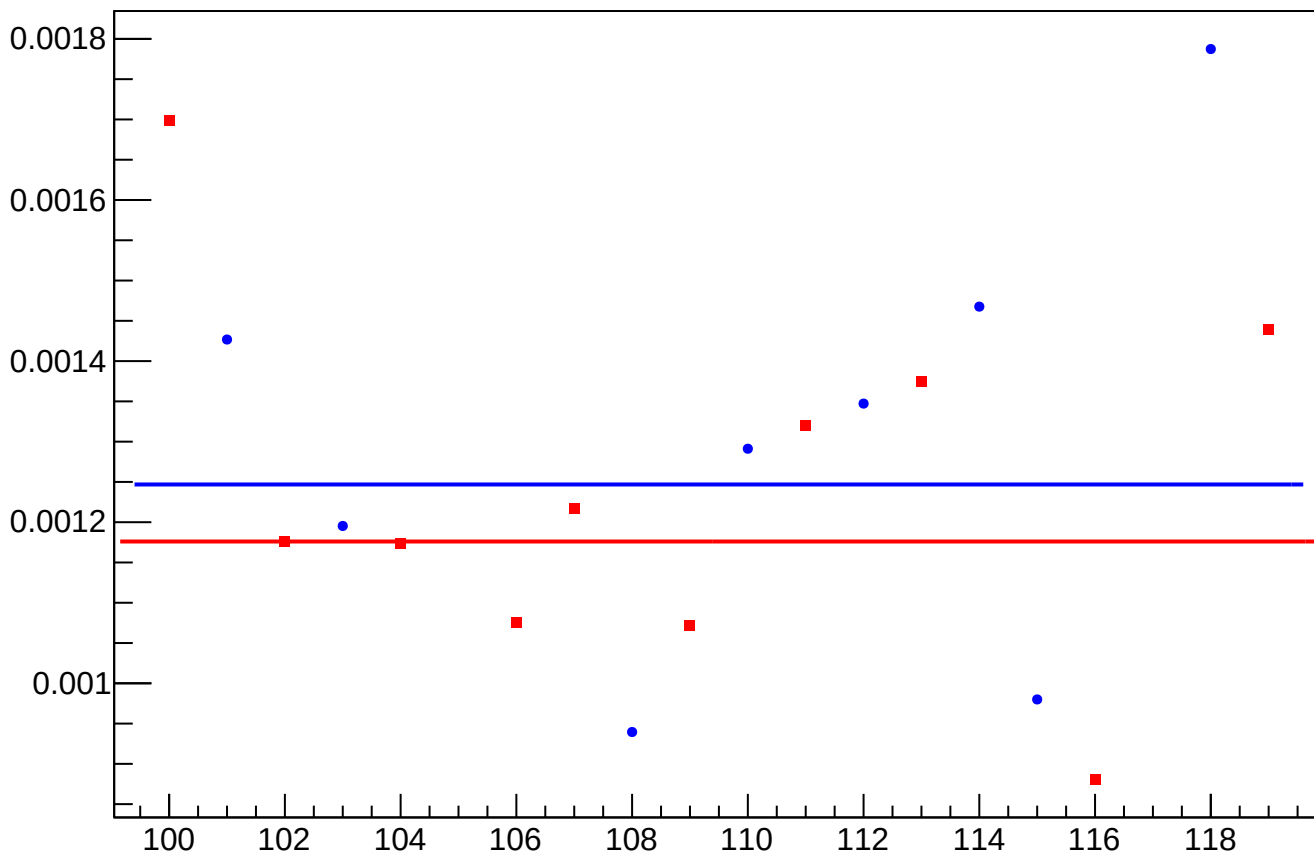
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.6/17

- 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  $\chi^2/\text{NDF}$ : 239121.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 153222.7/9

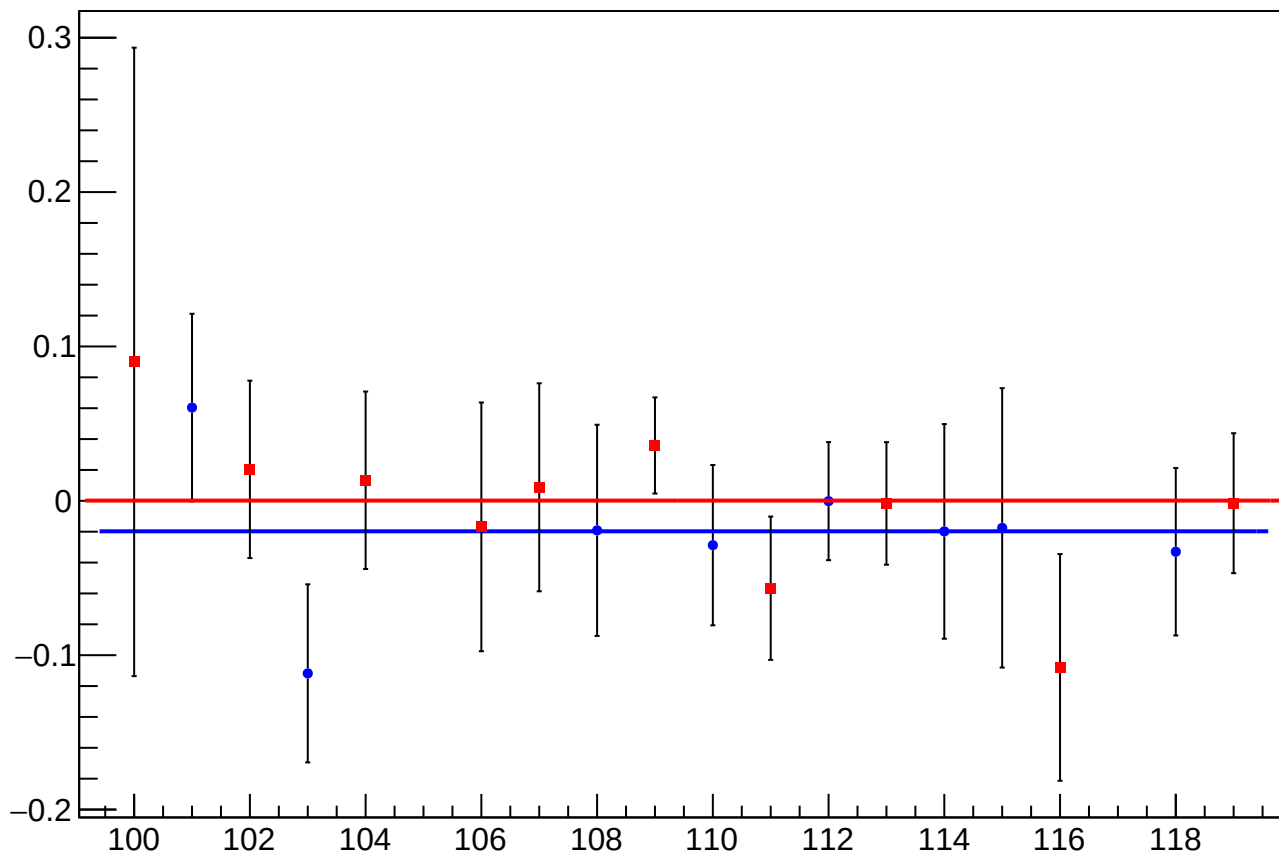
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 404377.4/17

- 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: -0.020 $\pm$ 0.020  $\chi^2$ /NDF: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.016  $\chi^2$ /NDF: 5.4/9

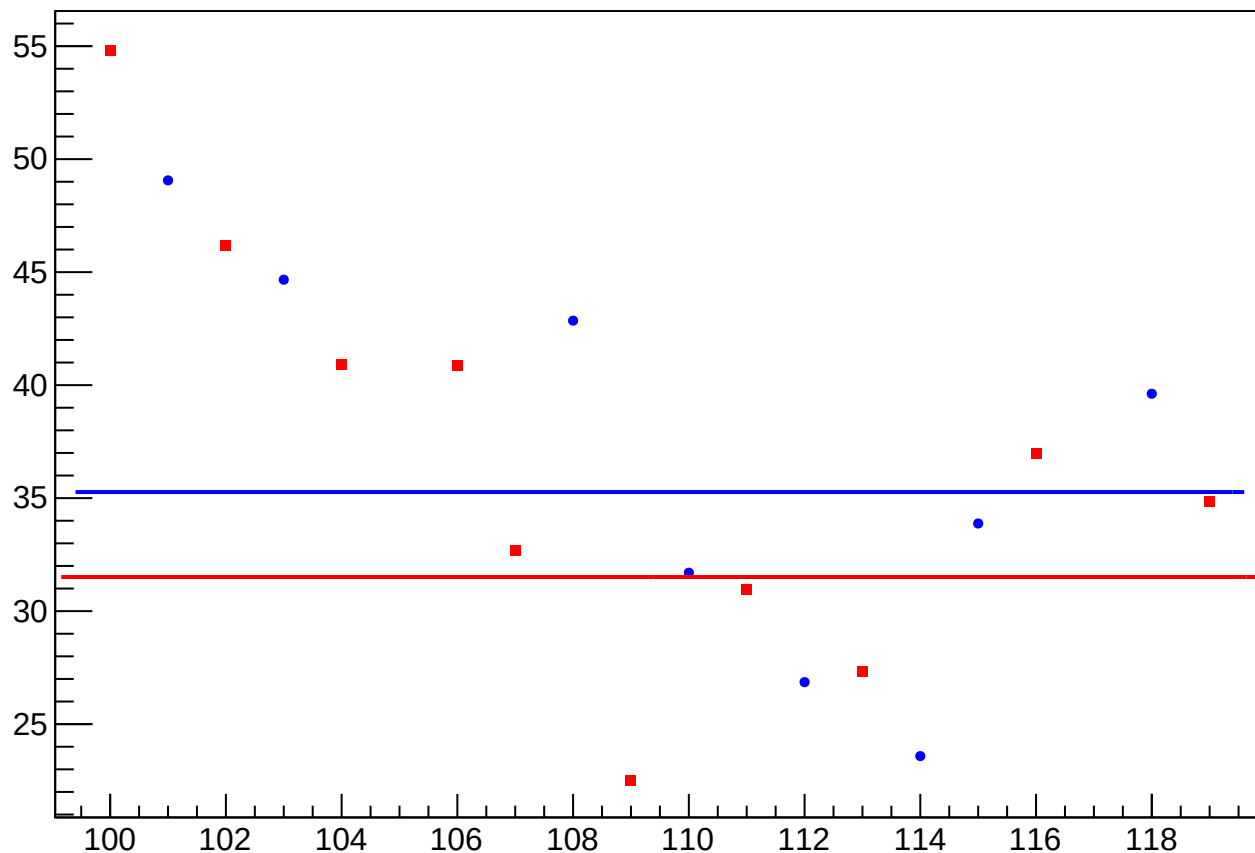
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.008 $\pm$ 0.013  $\chi^2$ /NDF: 10.6/17

- 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: 35.269+/-0.014  $\chi^2/\text{NDF}$ : 356647.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.510+/-0.011  $\chi^2/\text{NDF}$ : 449289.2/9

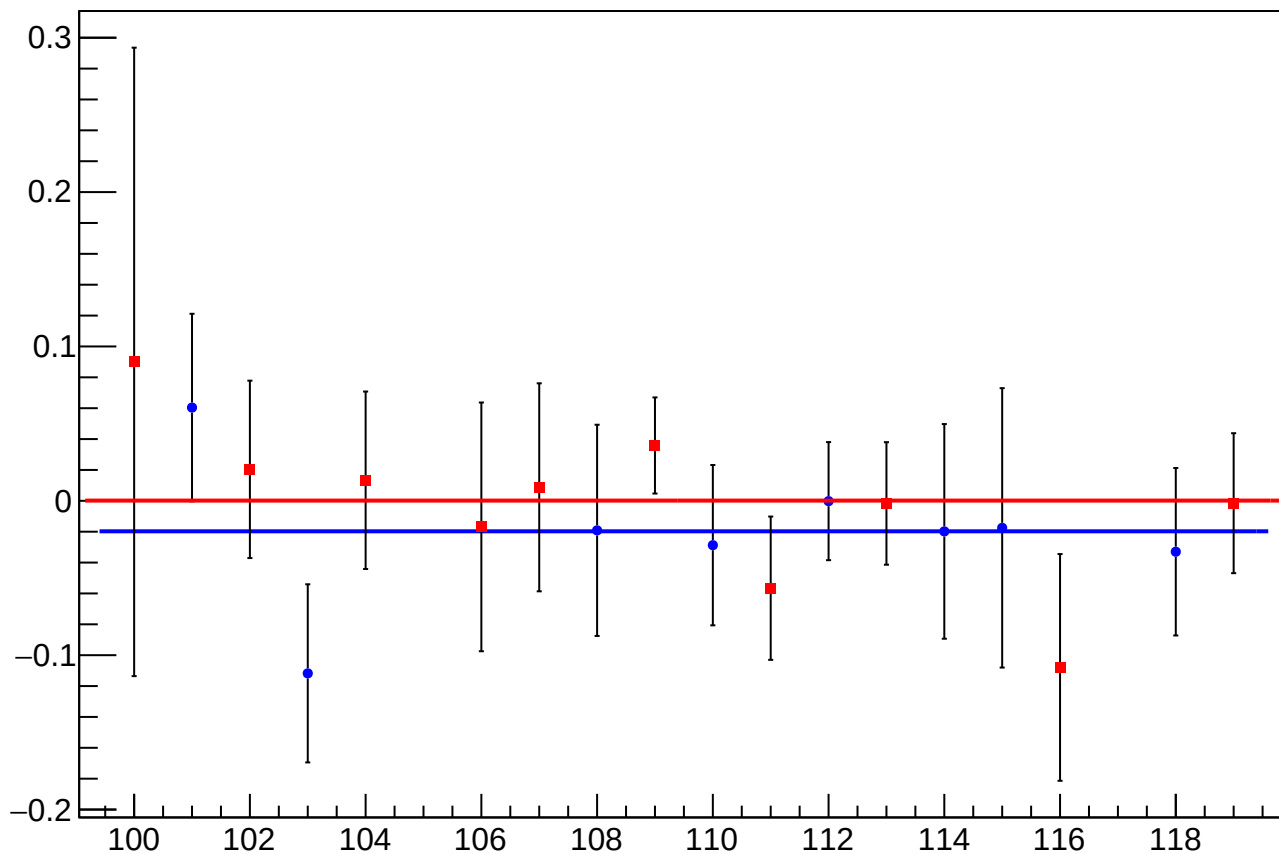
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.003+/-0.009  $\chi^2/\text{NDF}$ : 848661.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.020 $\pm$ 0.020  $\chi^2$ /NDF: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.016  $\chi^2$ /NDF: 5.4/9

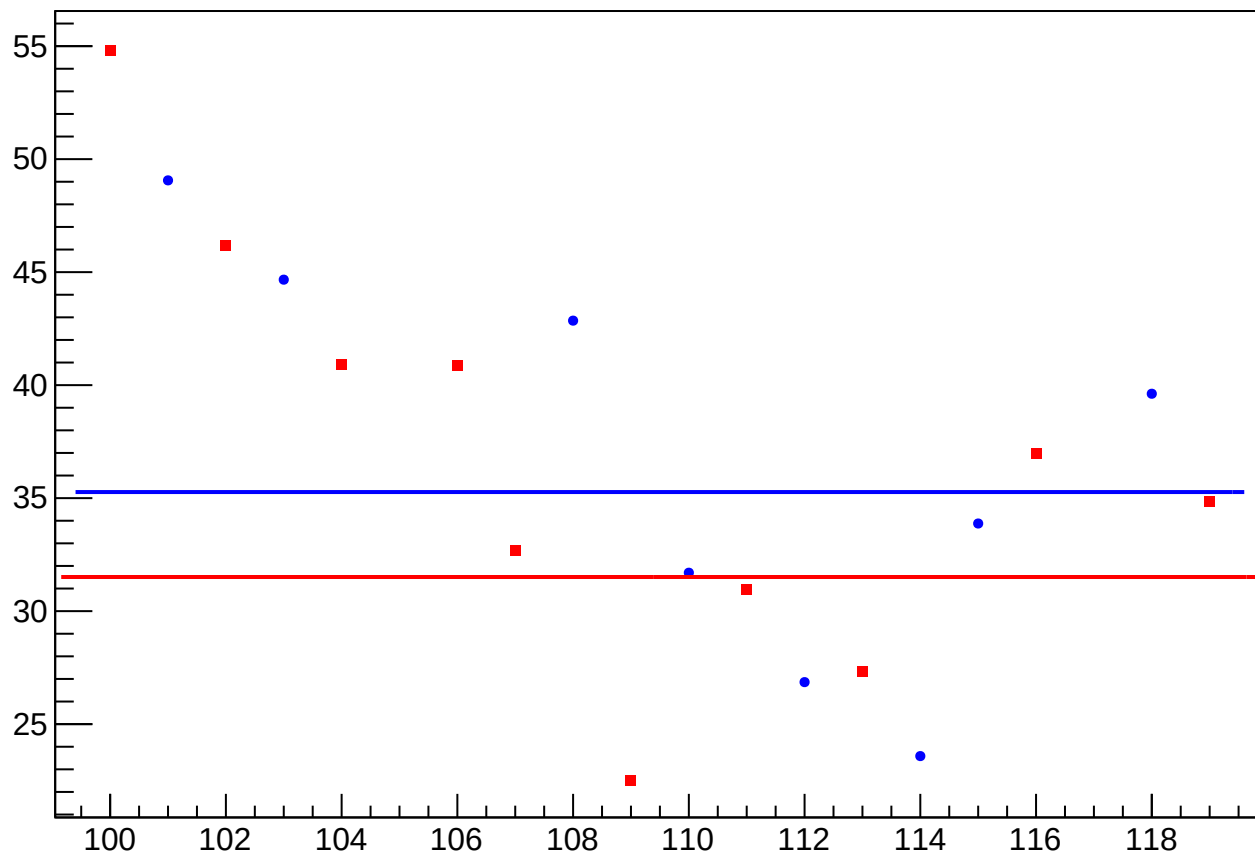
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.008 $\pm$ 0.013  $\chi^2$ /NDF: 10.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 35.269+/-0.014  $\chi^2/\text{NDF}$ : 356647.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.510+/-0.011  $\chi^2/\text{NDF}$ : 449289.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

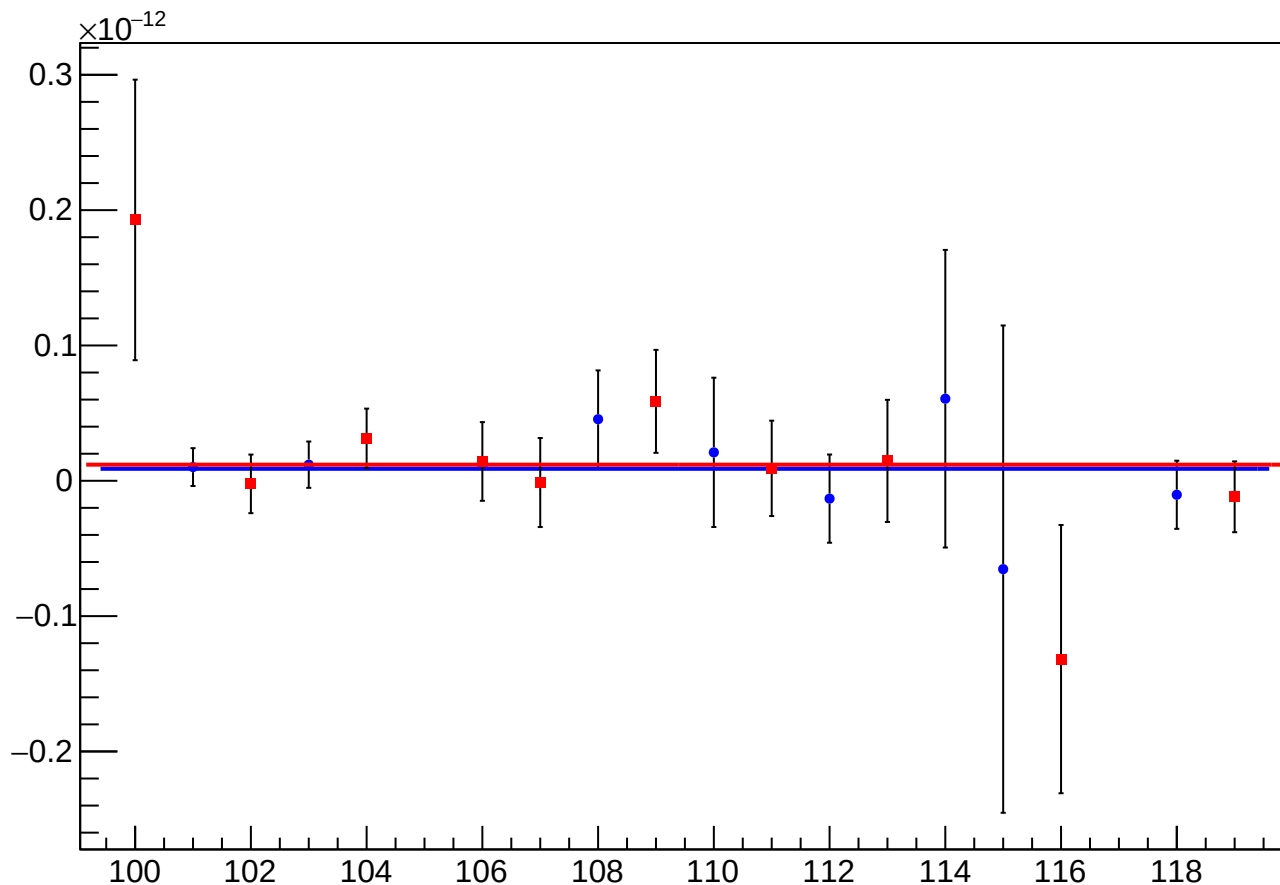
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.003+/-0.009  $\chi^2/\text{NDF}$ : 848661.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 2.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.9/9

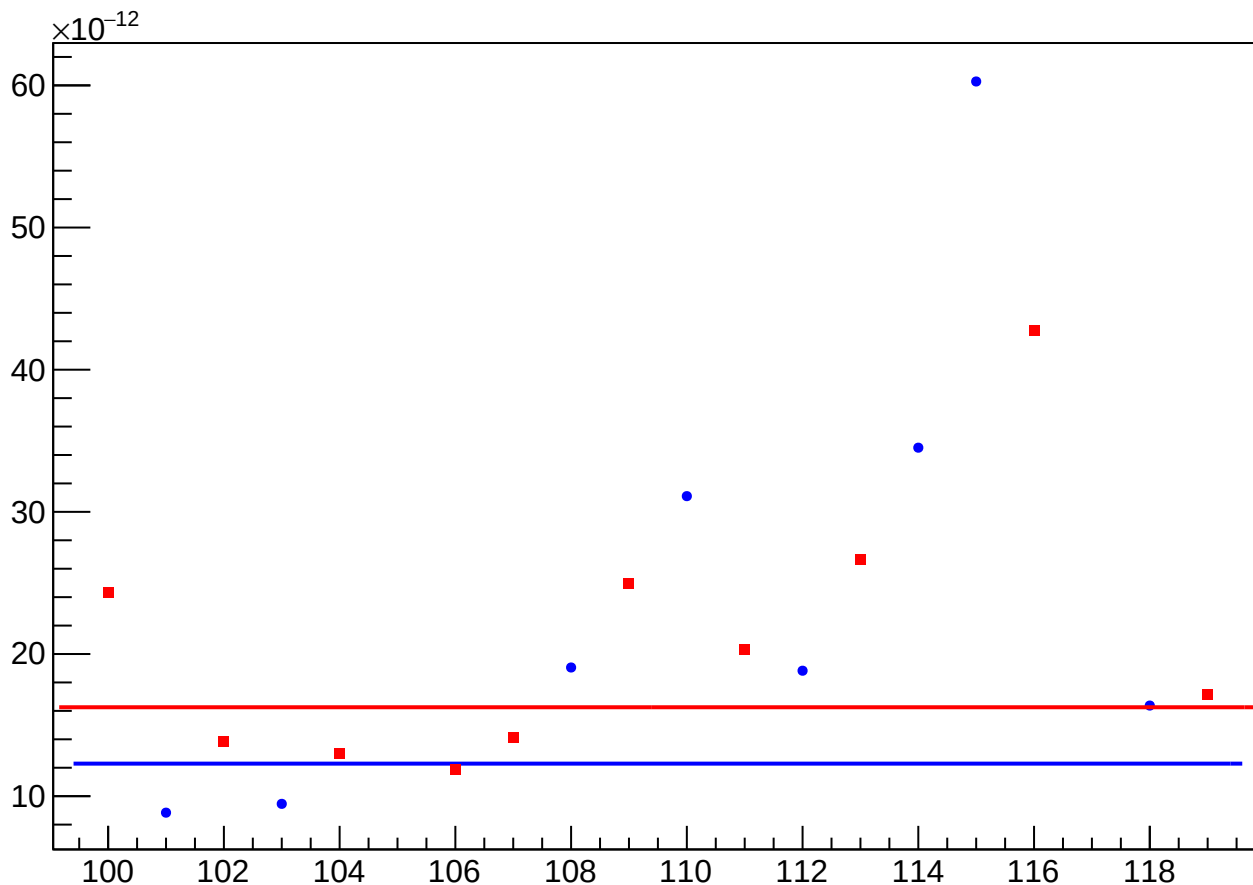
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.5/17

- 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  $\chi^2/\text{NDF}$ : 836330.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 518791.7/9

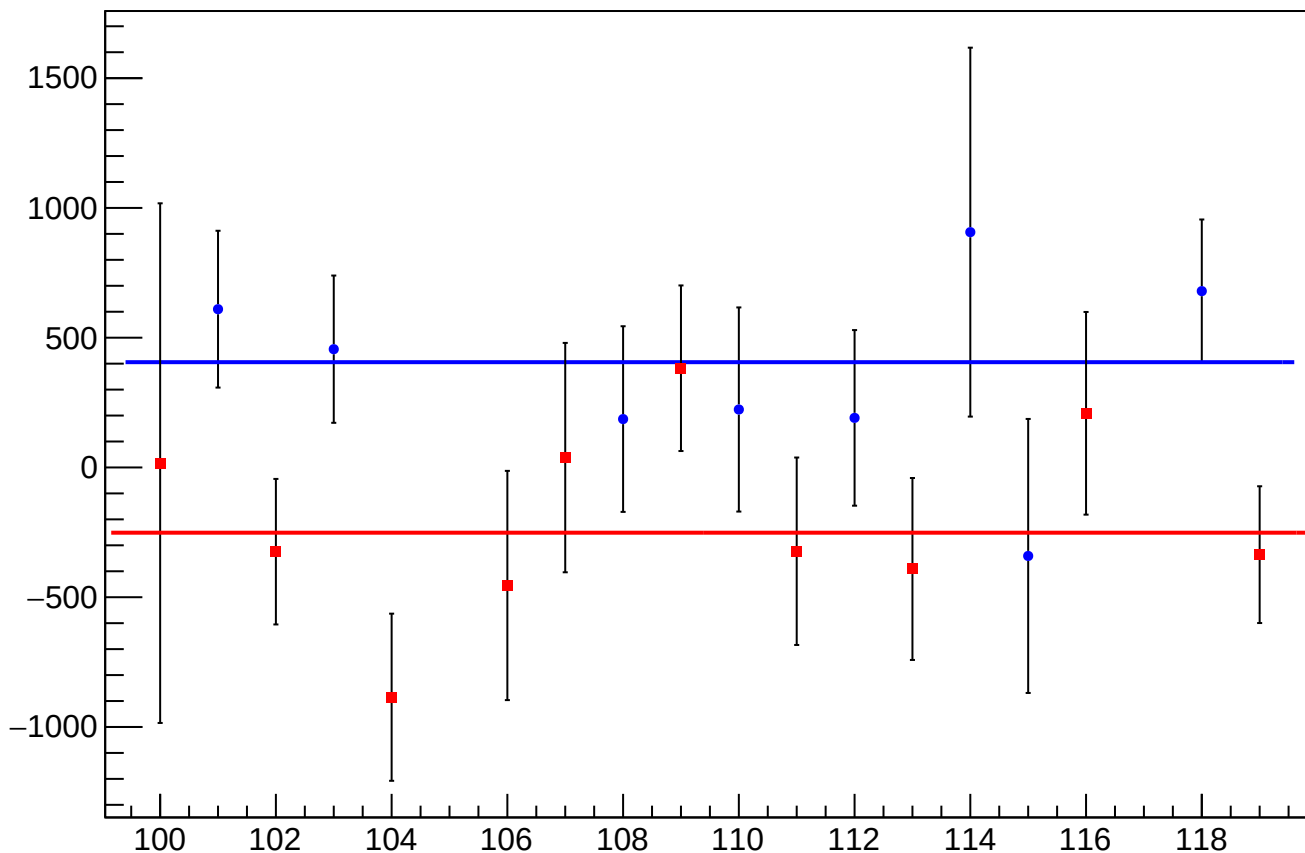
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1528071.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 405.673 $\pm$ 123.946  $\chi^2$ /NDF: 5.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -251.380 $\pm$ 111.663  $\chi^2$ /NDF: 10.3/9

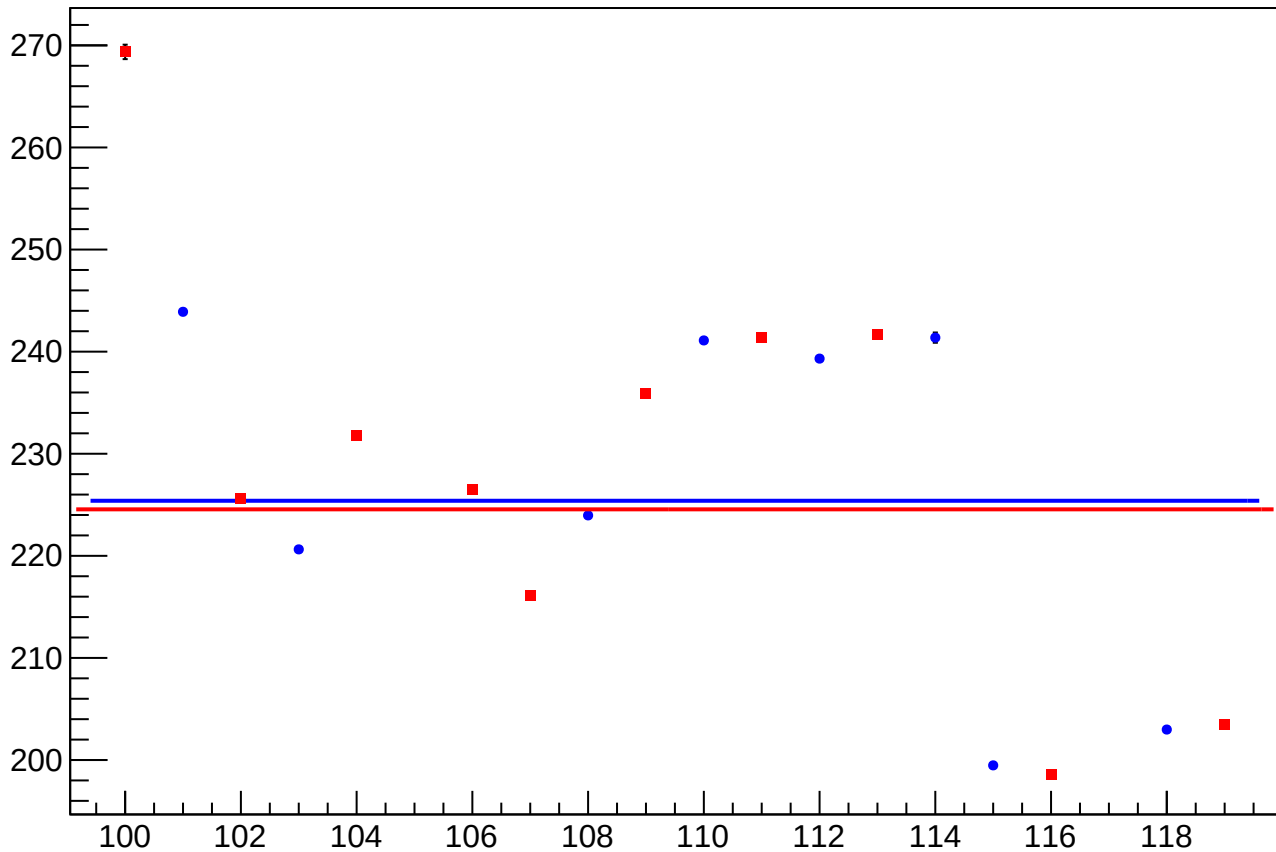
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 42.985 $\pm$ 82.961  $\chi^2$ /NDF: 30.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 225.394+/-0.088  $\chi^2/\text{NDF}$ : 33698.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 224.553+/-0.079  $\chi^2/\text{NDF}$ : 39148.2/9

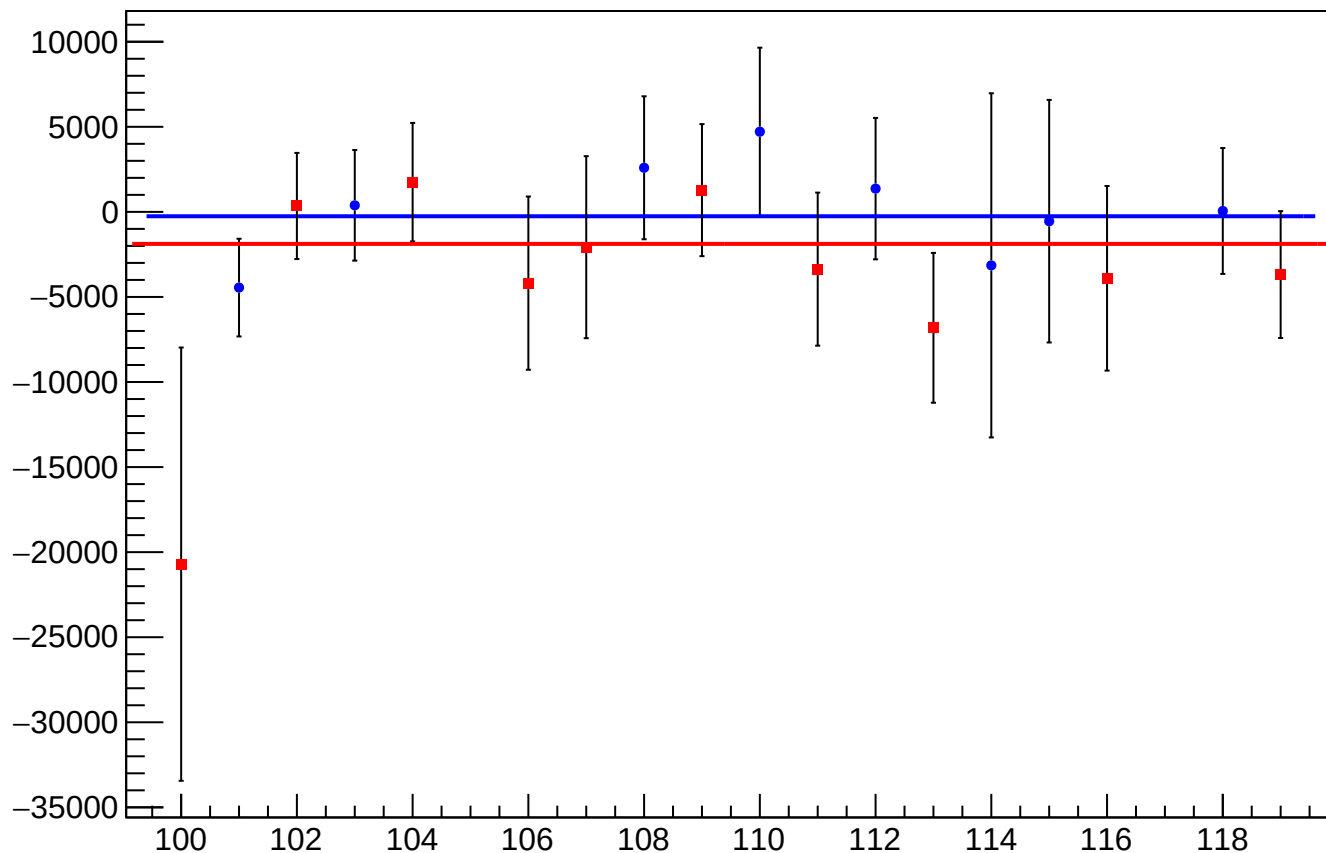
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 224.930+/-0.059  $\chi^2/\text{NDF}$ : 72897.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_reg\_correction\_mean vs Slug



Right In: -256.987+/-1452.530  $\chi^2/\text{NDF}$ : 3.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1881.437+/-1362.952  $\chi^2/\text{NDF}$ : 6.4/9

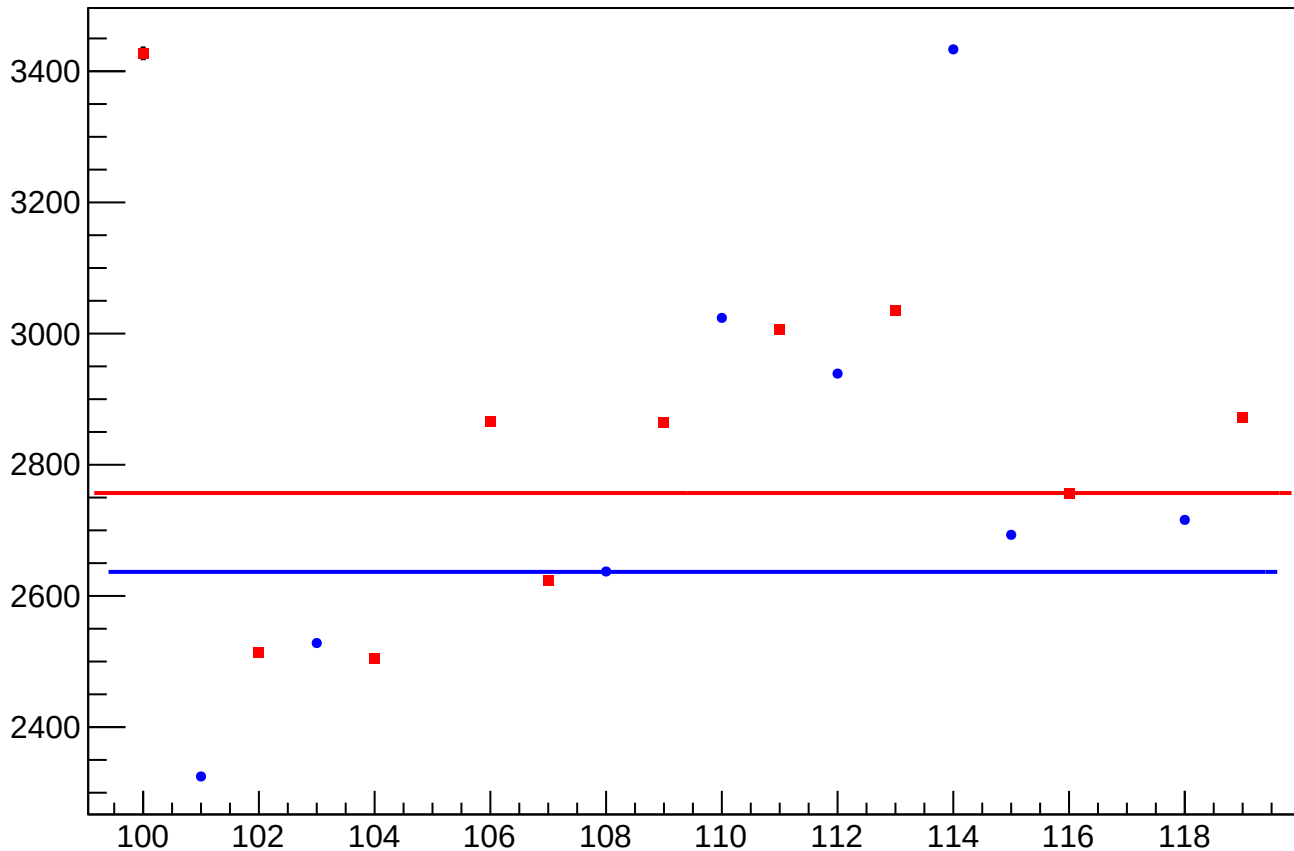
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1120.844+/-993.912  $\chi^2/\text{NDF}$ : 10.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_reg\_correction\_rms vs Slug



Right In: 2636.675 $\pm$ 1.027  $\chi^2$ /NDF: 62162.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2756.915 $\pm$ 0.964  $\chi^2$ /NDF: 48070.2/9

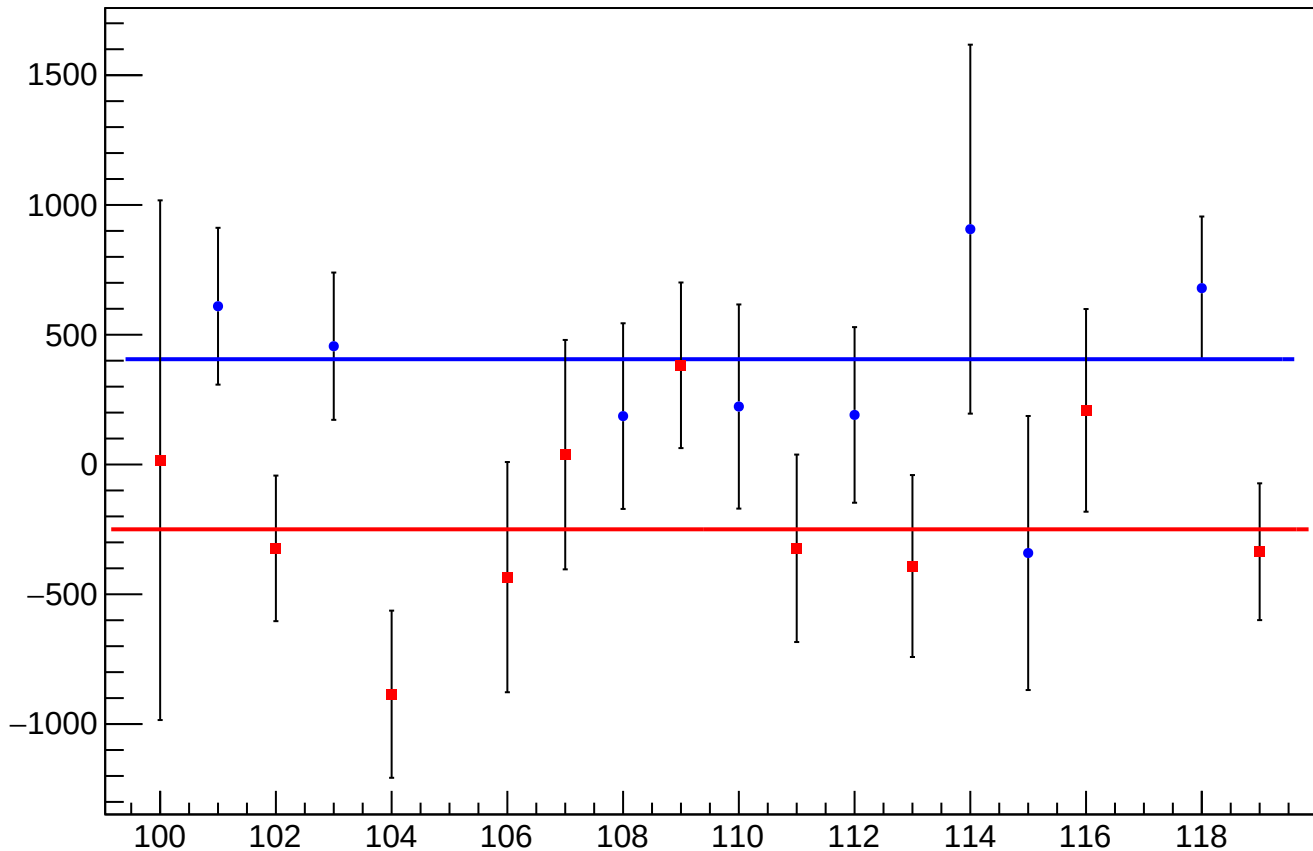
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2700.617 $\pm$ 0.703  $\chi^2$ /NDF: 117521.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 405.711 $\pm$ 123.946  $\chi^2$ /NDF: 5.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -249.698 $\pm$ 111.697  $\chi^2$ /NDF: 10.2/9

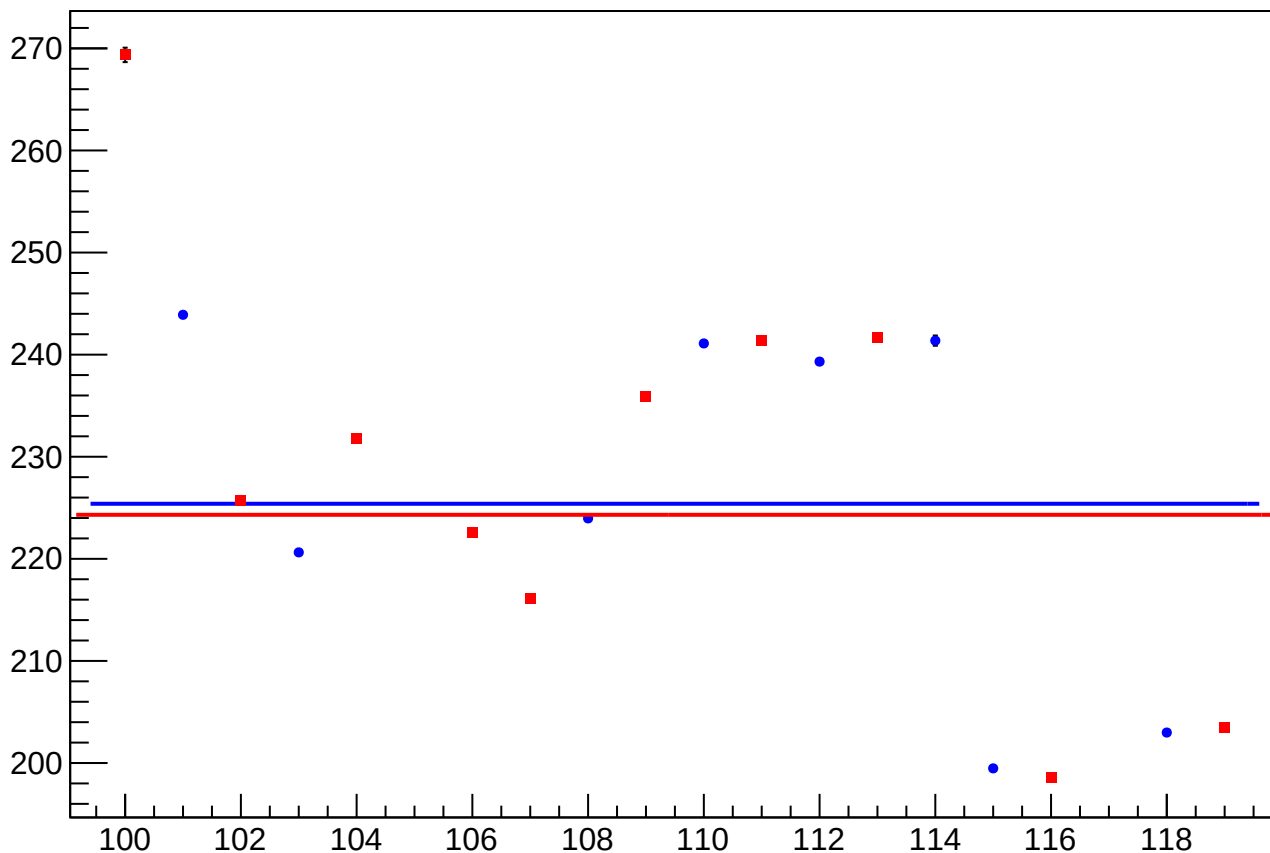
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 44.030 $\pm$ 82.975  $\chi^2$ /NDF: 30.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 225.394 $\pm$ 0.088  $\chi^2$ /NDF: 33698.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 224.313 $\pm$ 0.079  $\chi^2$ /NDF: 39147.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

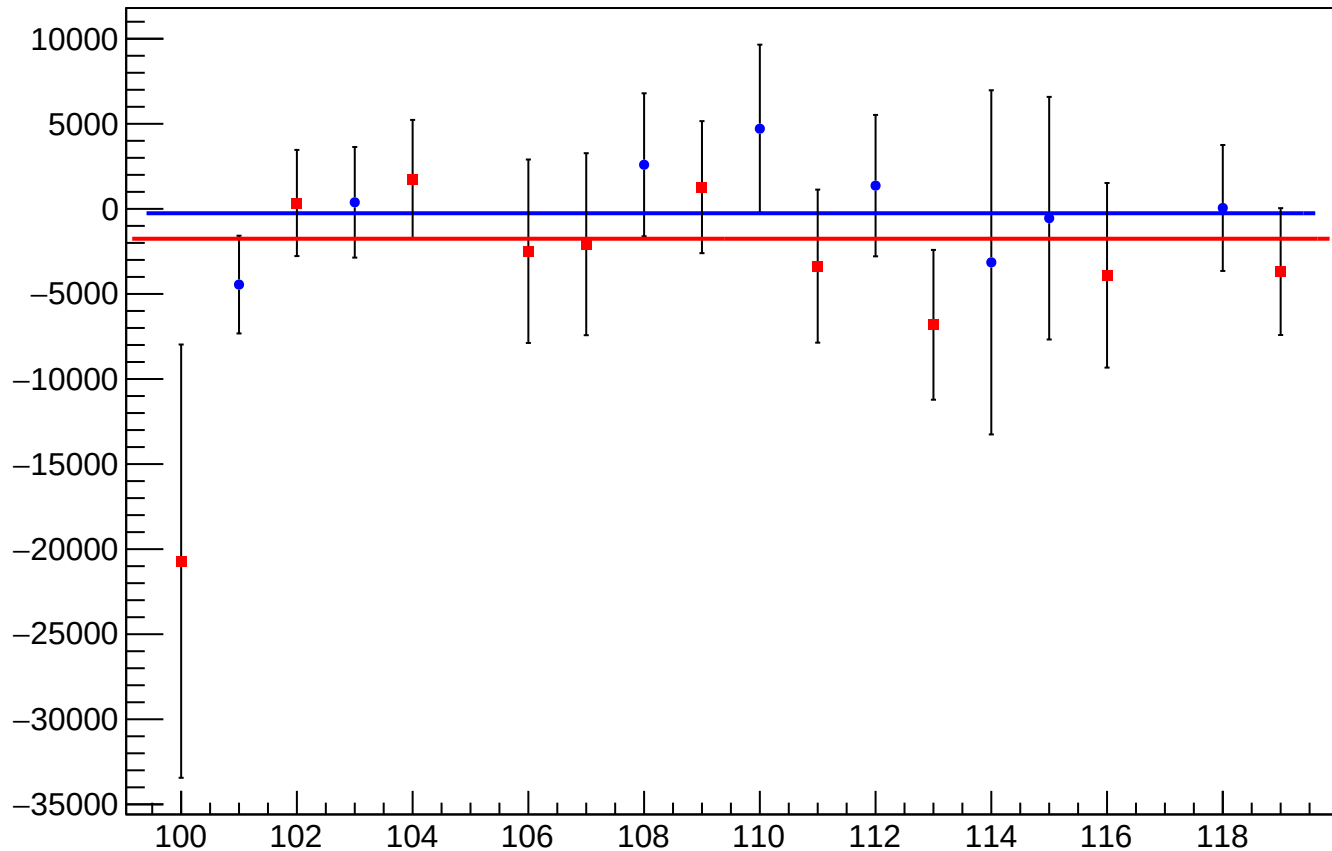
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 224.798 $\pm$ 0.059  $\chi^2$ /NDF: 72929.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_26\_dd\_cor\_correction\_mean vs Slug



Right In: -256.840+/-1452.537  $\chi^2/\text{NDF}$ : 3.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1754.622+/-1368.387  $\chi^2/\text{NDF}$ : 6.2/9

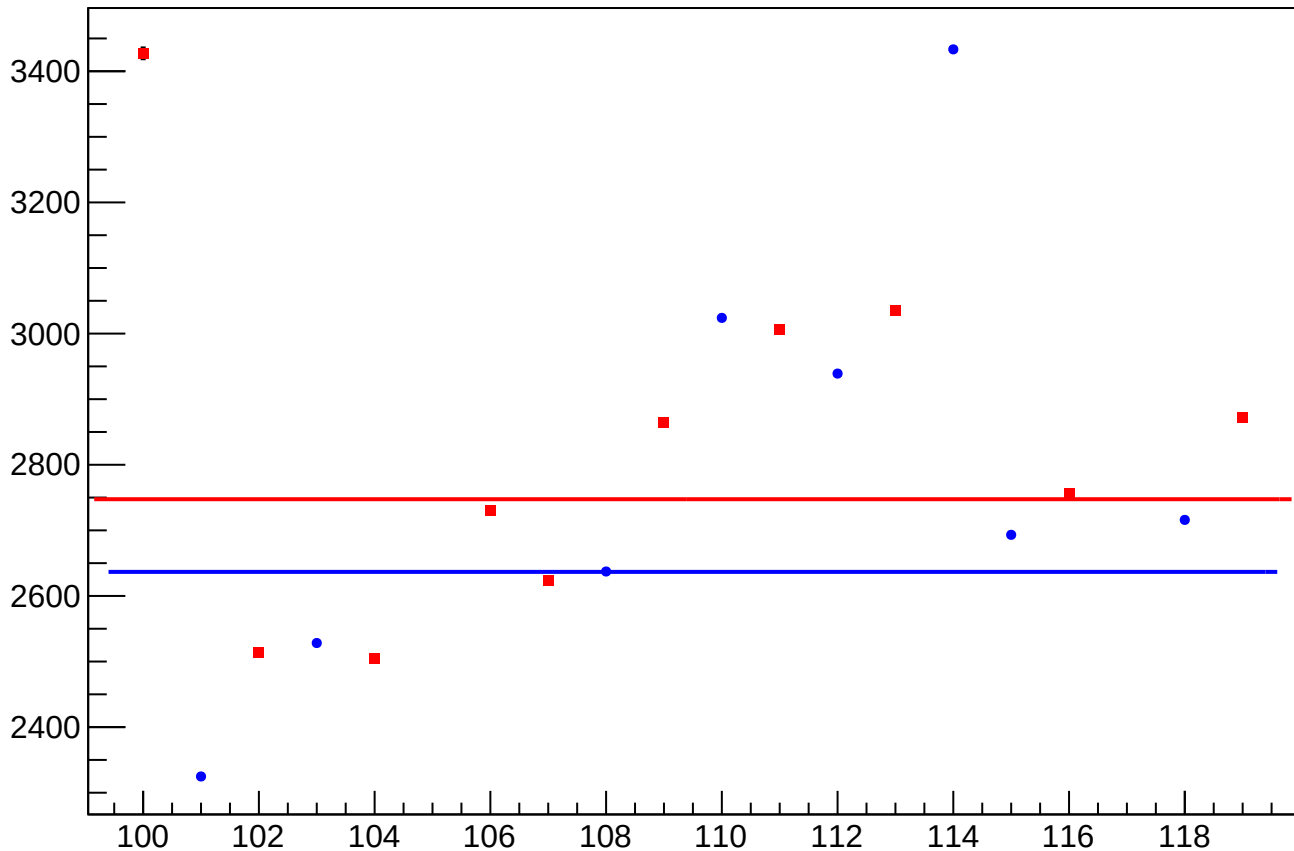
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1050.371+/-996.017  $\chi^2/\text{NDF}$ : 10.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_cor\_correction\_rms vs Slug



Right In: 2636.688+/-1.027  $\chi^2/\text{NDF}$ : 62159.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2747.485+/-0.968  $\chi^2/\text{NDF}$ : 46990.7/9

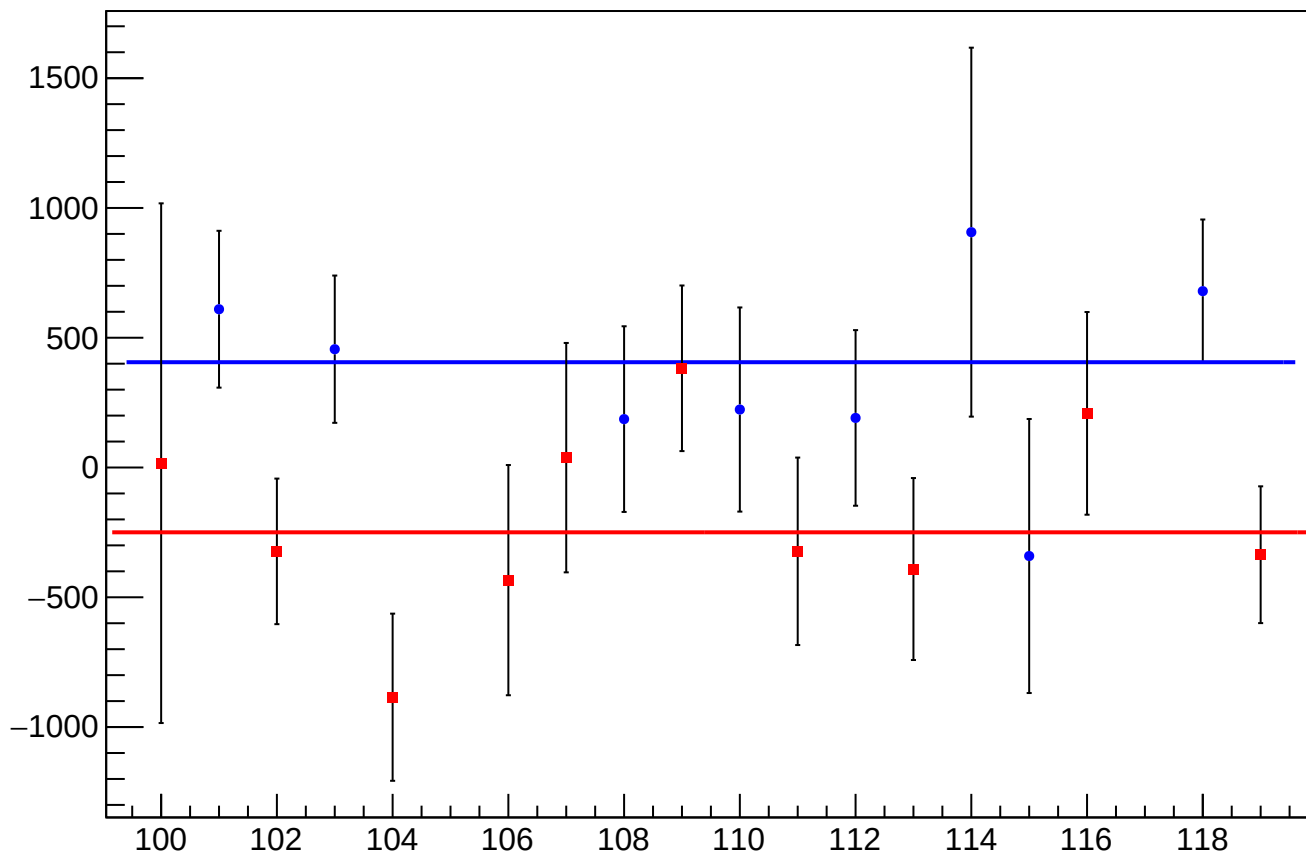
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2695.389+/-0.704  $\chi^2/\text{NDF}$ : 115315.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 405.711+/-123.946  $\chi^2/\text{NDF}$ : 5.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -249.698+/-111.697  $\chi^2/\text{NDF}$ : 10.2/9

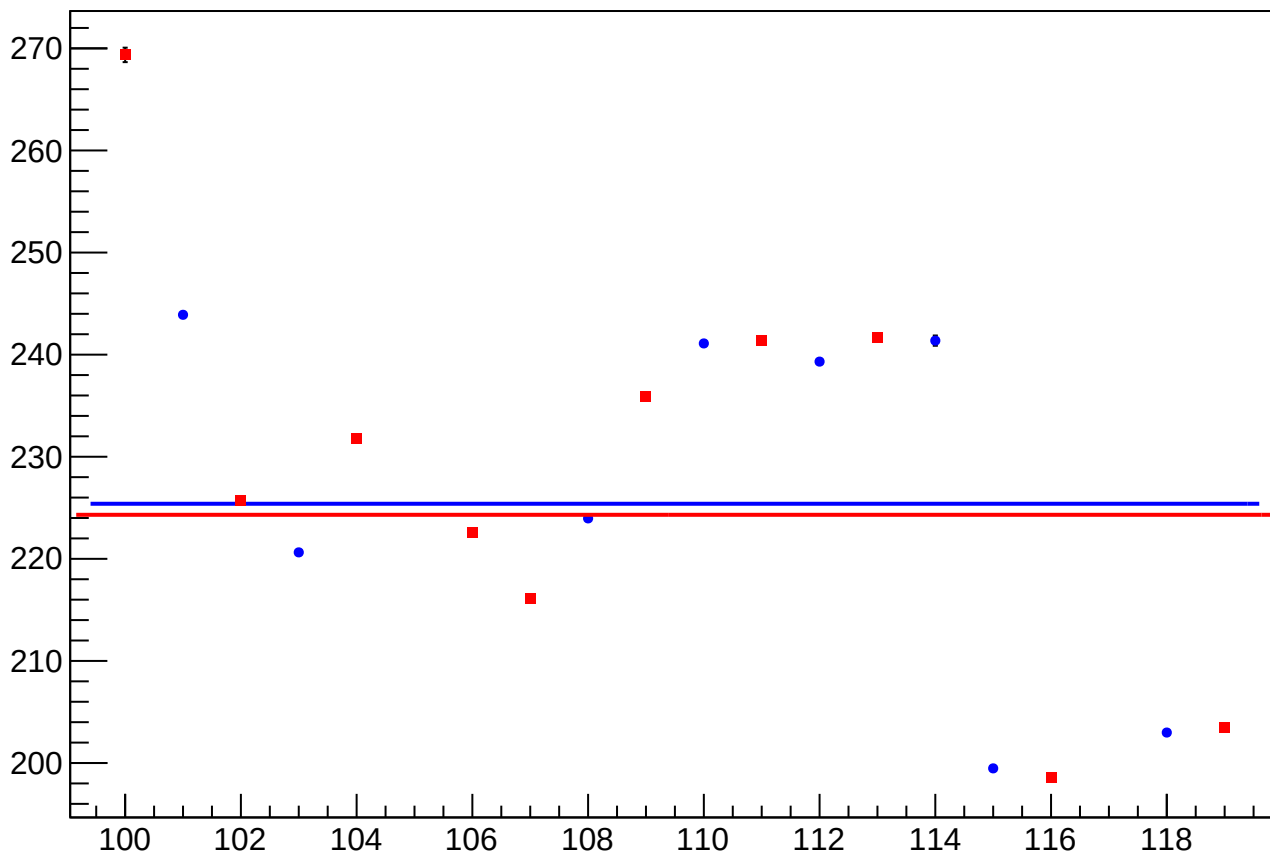
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 44.030+/-82.975  $\chi^2/\text{NDF}$ : 30.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 225.394 $\pm$ 0.088  $\chi^2$ /NDF: 33698.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 224.313 $\pm$ 0.079  $\chi^2$ /NDF: 39147.0/9

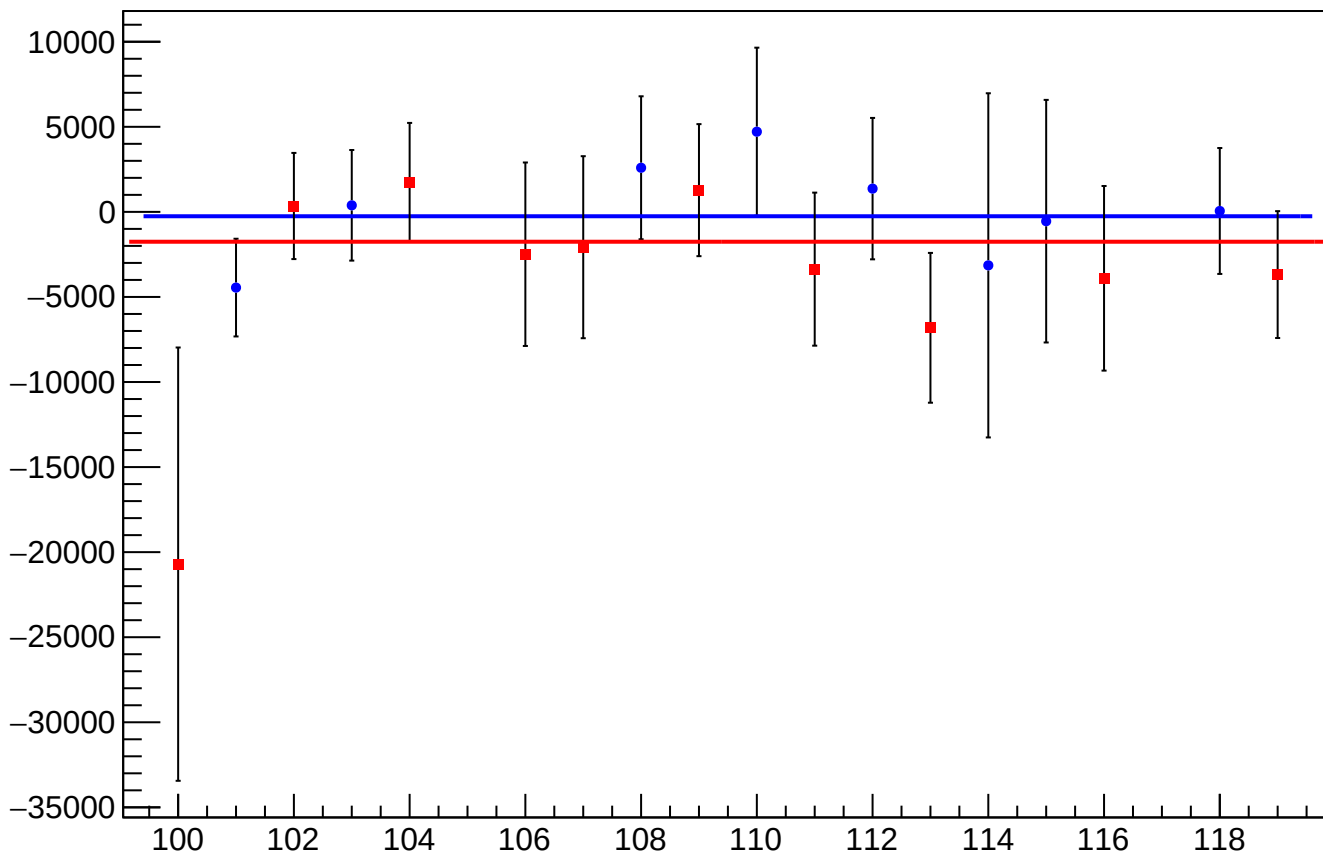
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 224.798 $\pm$ 0.059  $\chi^2$ /NDF: 72929.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -256.840+/-1452.537  $\chi^2/\text{NDF}$ : 3.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1754.622+/-1368.387  $\chi^2/\text{NDF}$ : 6.2/9

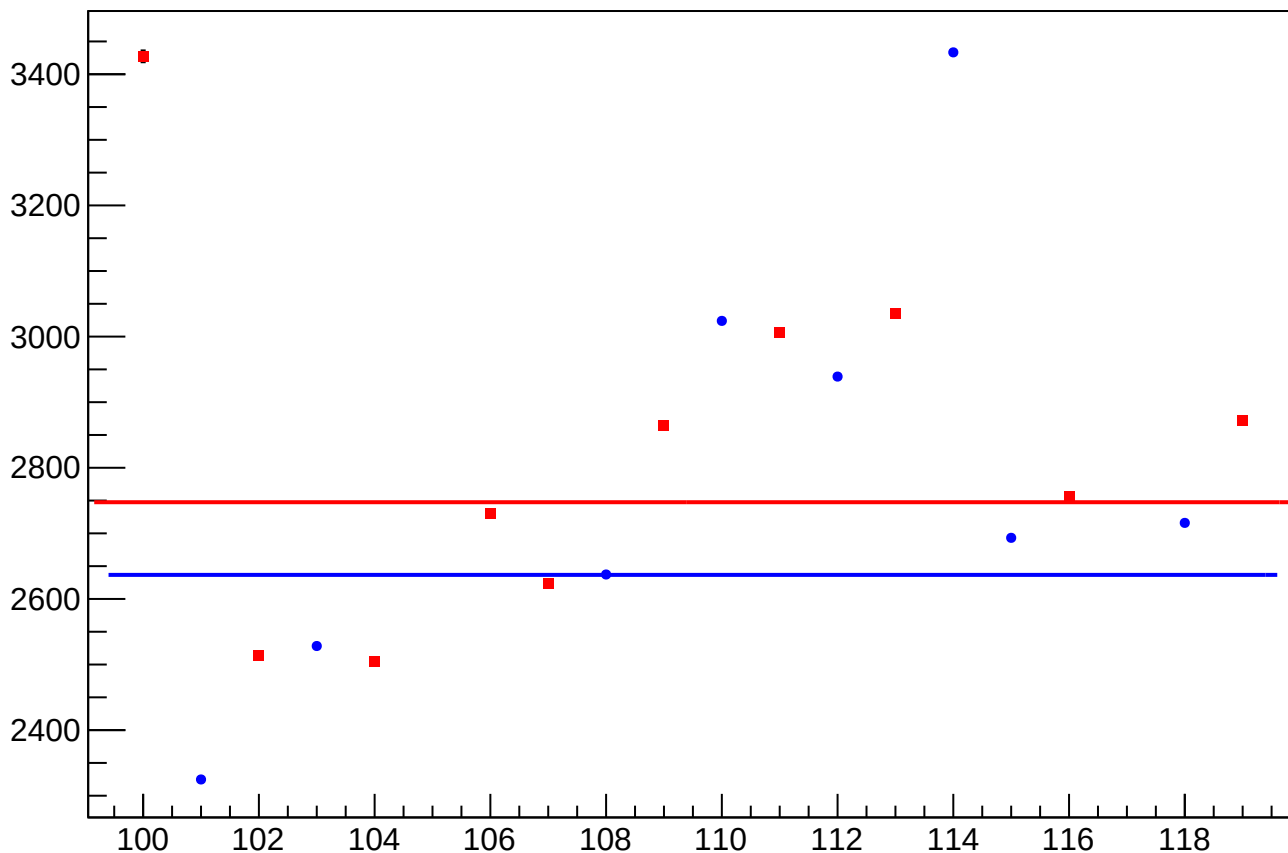
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1050.371+/-996.017  $\chi^2/\text{NDF}$ : 10.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 2636.688+/-1.027  $\chi^2/\text{NDF}$ : 62159.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2747.485+/-0.968  $\chi^2/\text{NDF}$ : 46990.7/9

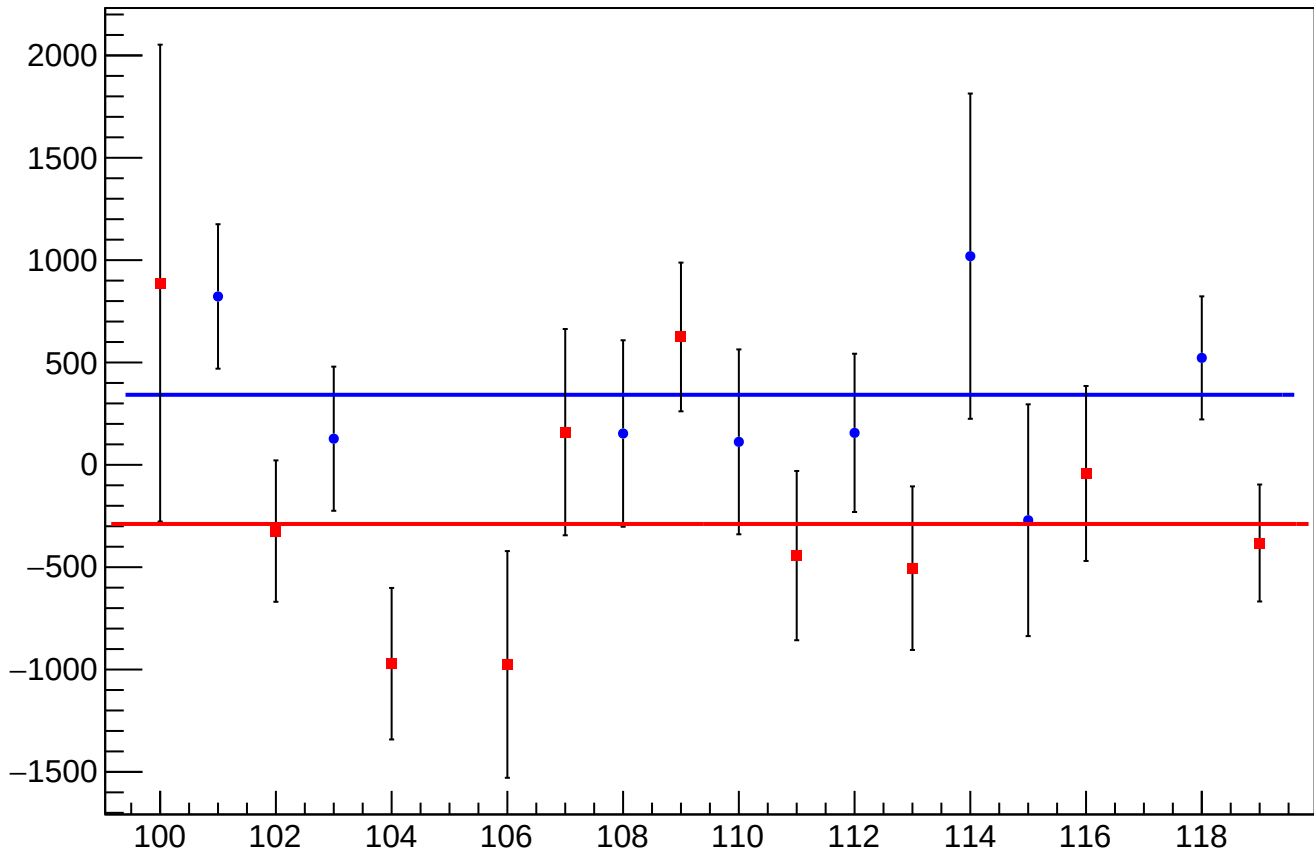
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2695.389+/-0.704  $\chi^2/\text{NDF}$ : 115315.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 342.200 $\pm$ 143.915  $\chi^2$ /NDF: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -288.889 $\pm$ 127.998  $\chi^2$ /NDF: 14.0/9

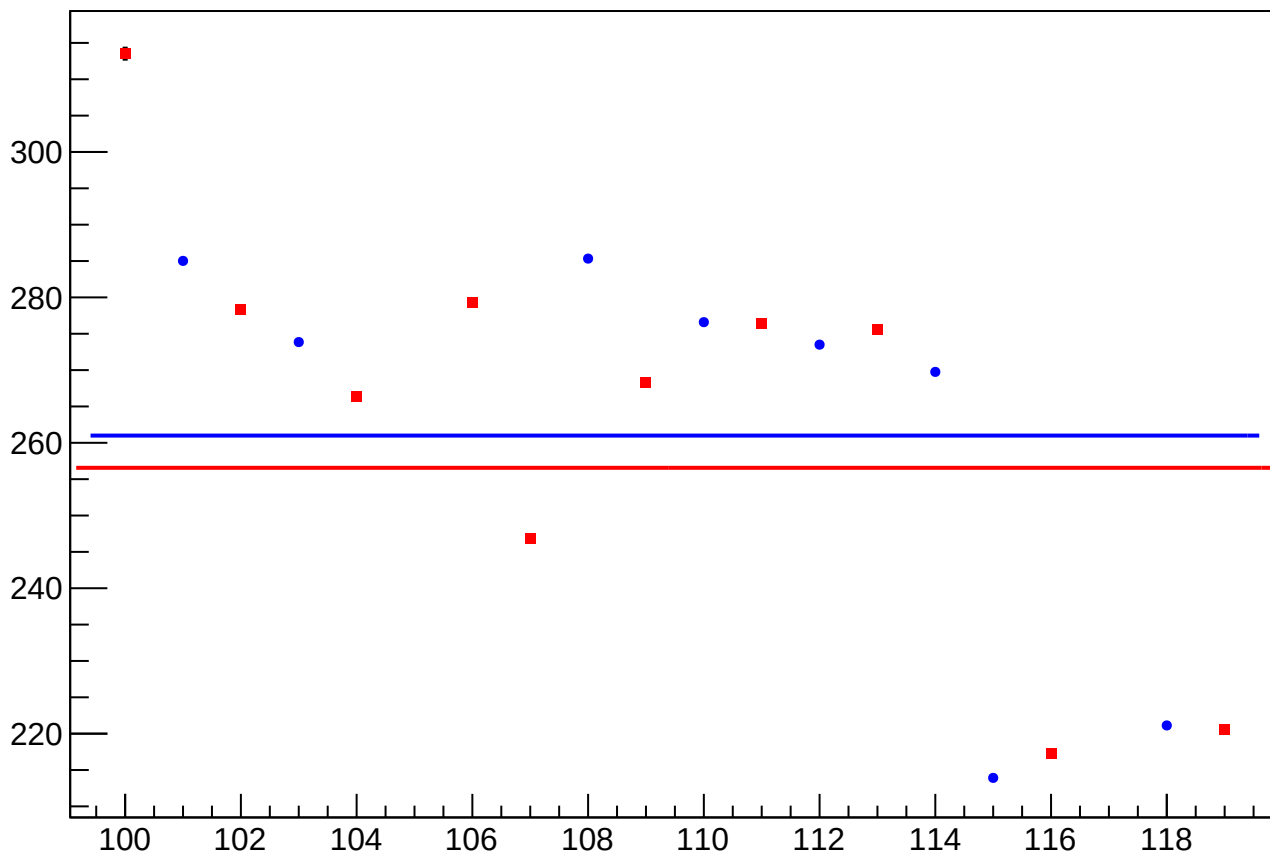
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -10.159 $\pm$ 95.643  $\chi^2$ /NDF: 29.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 260.996 $\pm$ 0.102  $\chi^2$ /NDF: 71375.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 256.564 $\pm$ 0.091  $\chi^2$ /NDF: 78126.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

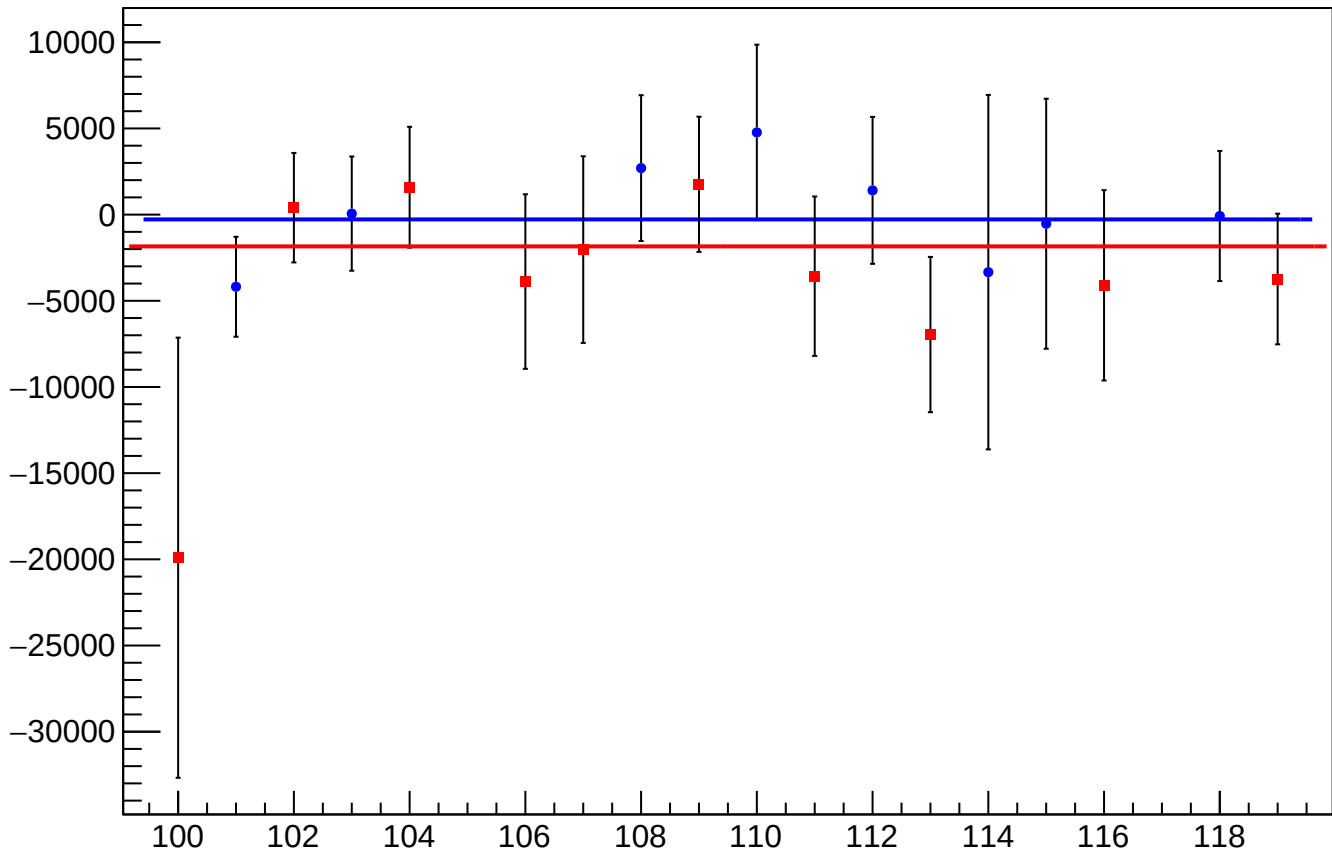
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 258.521 $\pm$ 0.068  $\chi^2$ /NDF: 150560.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_26\_dd\_dit\_correction\_mean vs Slug



Right In: -277.762+/-1477.377  $\chi^2/\text{NDF}$ : 3.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1842.534+/-1382.576  $\chi^2/\text{NDF}$ : 6.3/9

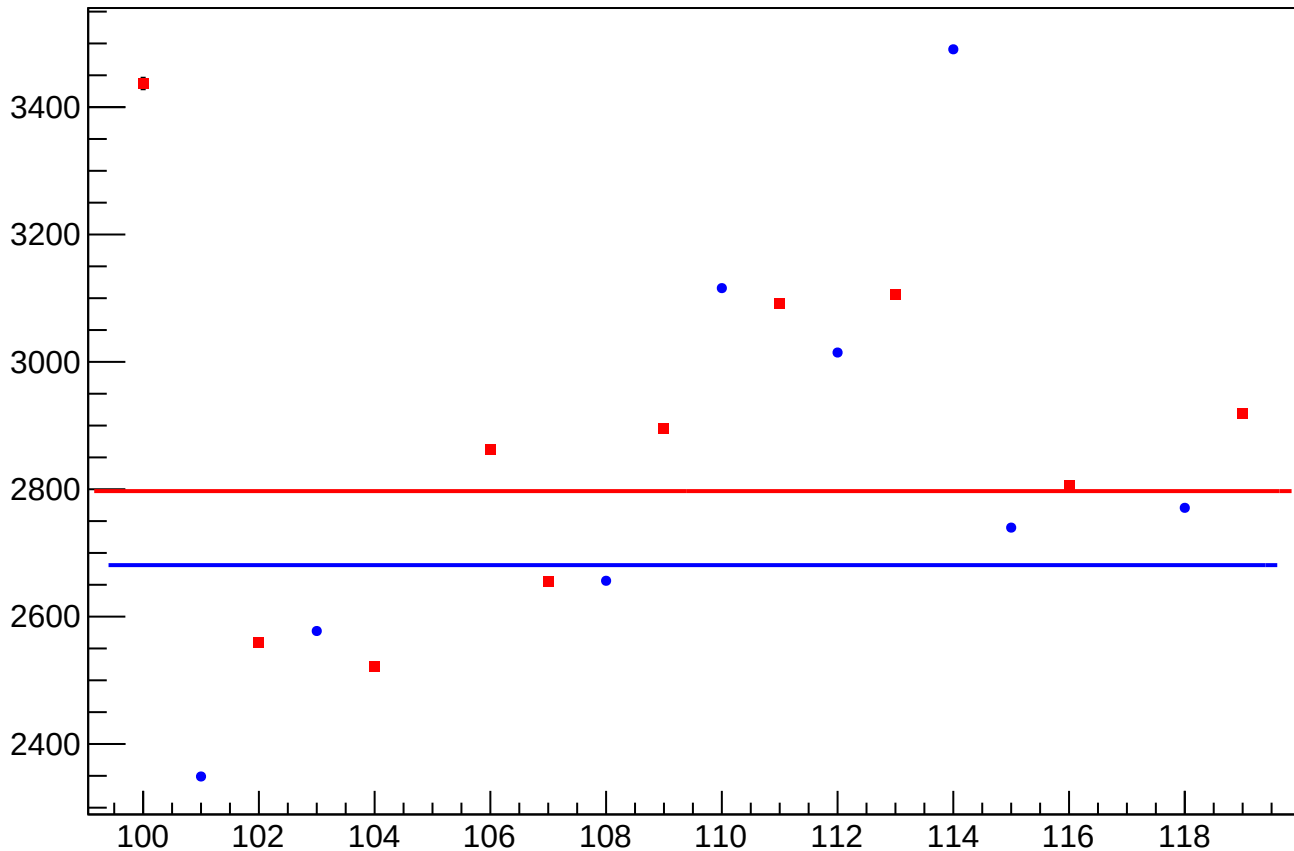
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1111.960+/-1009.481  $\chi^2/\text{NDF}$ : 10.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_dit\_correction\_rms vs Slug



Right In: 2680.854 $\pm$ 1.045  $\chi^2$ /NDF: 68759.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2797.094 $\pm$ 0.978  $\chi^2$ /NDF: 50956.0/9

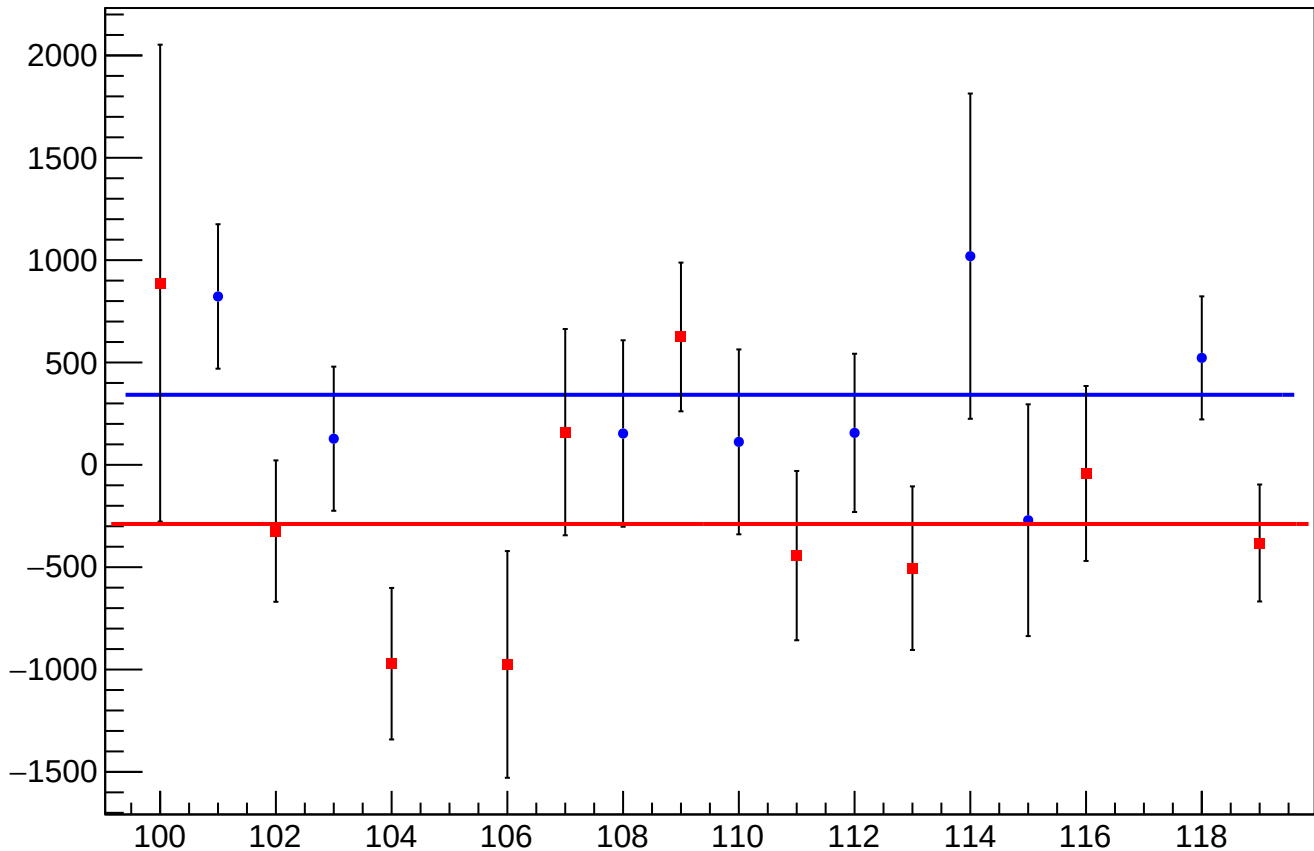
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2742.823 $\pm$ 0.714  $\chi^2$ /NDF: 126315.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 342.196 $\pm$ 143.914  $\chi^2$ /NDF: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -288.882 $\pm$ 127.998  $\chi^2$ /NDF: 14.0/9

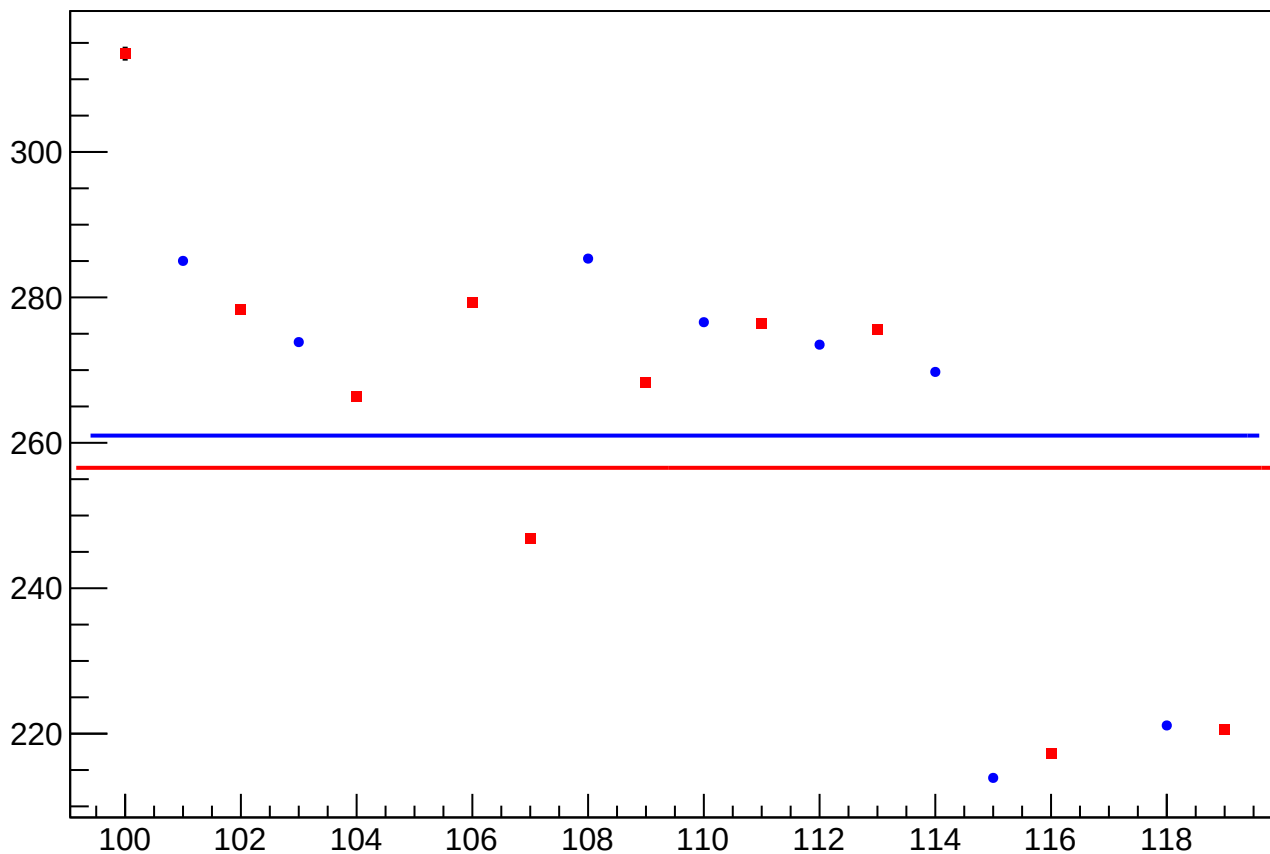
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -10.157 $\pm$ 95.642  $\chi^2$ /NDF: 29.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 260.994 $\pm$ 0.102  $\chi^2$ /NDF: 71374.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 256.563 $\pm$ 0.091  $\chi^2$ /NDF: 78123.6/9

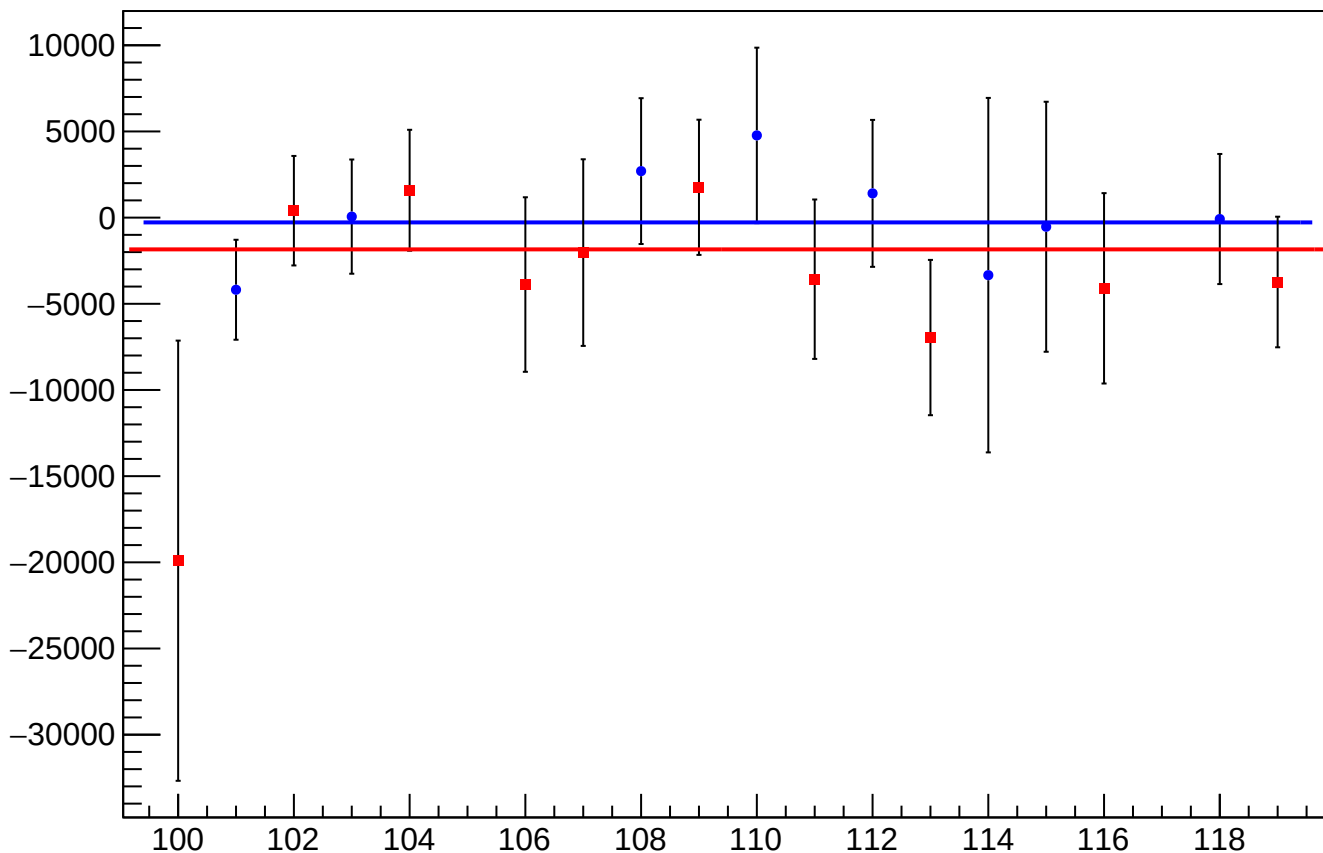
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 258.520 $\pm$ 0.068  $\chi^2$ /NDF: 150557.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -277.762+/-1477.374  $\chi^2/\text{NDF}$ : 3.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1842.529+/-1382.572  $\chi^2/\text{NDF}$ : 6.3/9

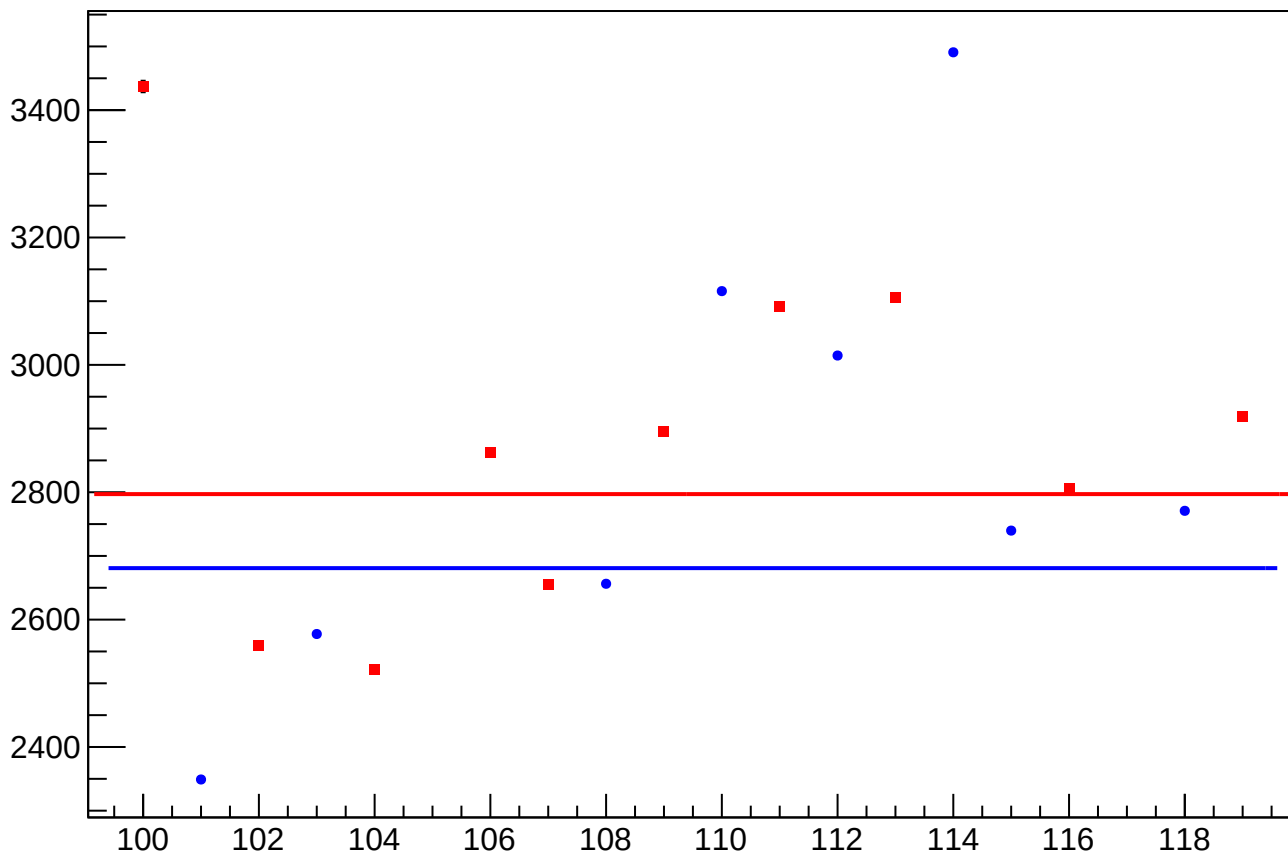
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1111.957+/-1009.478  $\chi^2/\text{NDF}$ : 10.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 2680.848 $\pm$ 1.045  $\chi^2$ /NDF: 68757.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2797.086 $\pm$ 0.978  $\chi^2$ /NDF: 50955.6/9

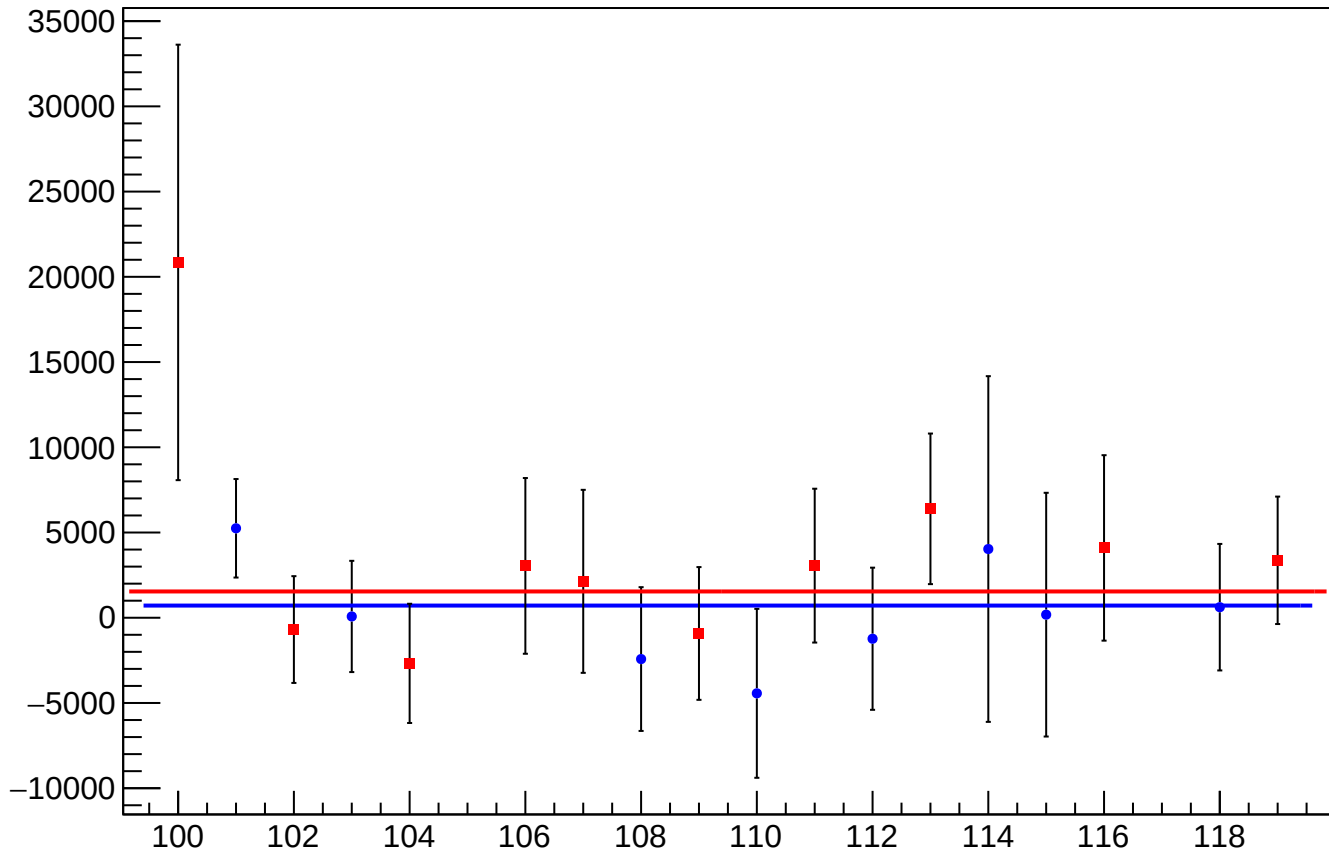
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2742.816 $\pm$ 0.714  $\chi^2$ /NDF: 126313.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_dd\_mean vs Slug



Right In: 714.194+/-1458.538  $\chi^2/\text{NDF}$ : 4.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1542.109+/-1368.592  $\chi^2/\text{NDF}$ : 6.5/9

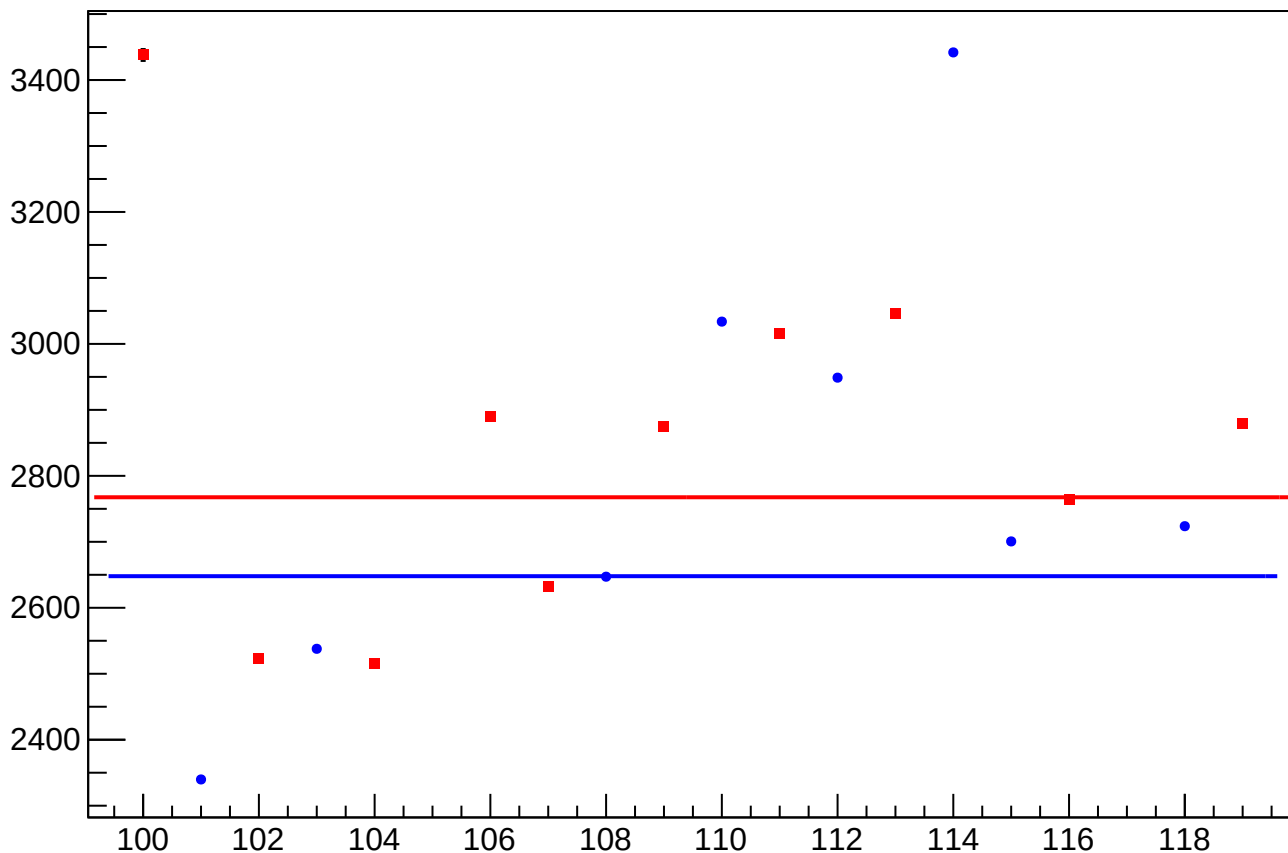
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1154.465+/-998.024  $\chi^2/\text{NDF}$ : 11.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_rms vs Slug



Right In: 2647.900+/-1.031  $\chi^2$ /NDF: 60764.6/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2767.526+/-0.968  $\chi^2$ /NDF: 47749.9/9

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

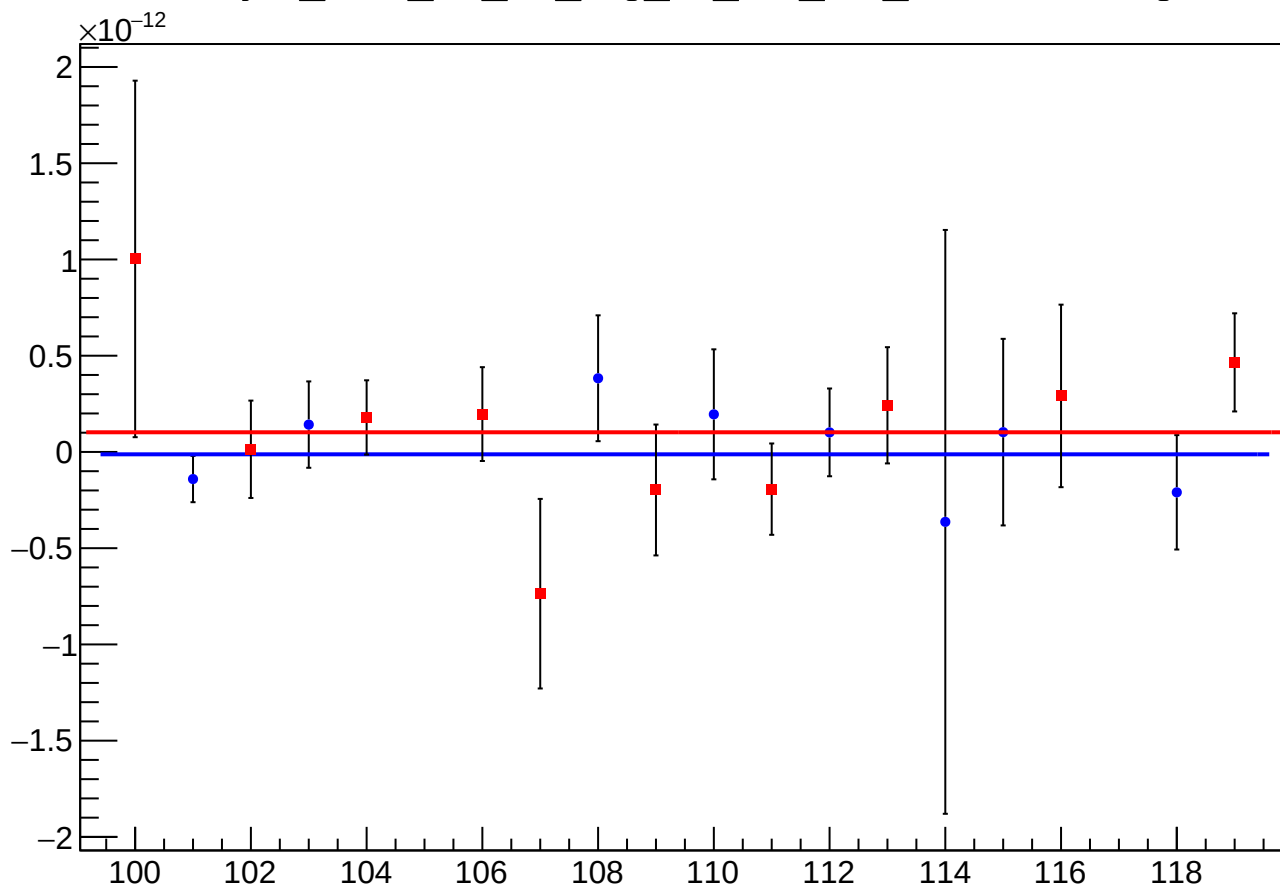
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 2711.515+/-0.706  $\chi^2$ /NDF: 115669.1/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_26\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.0/9

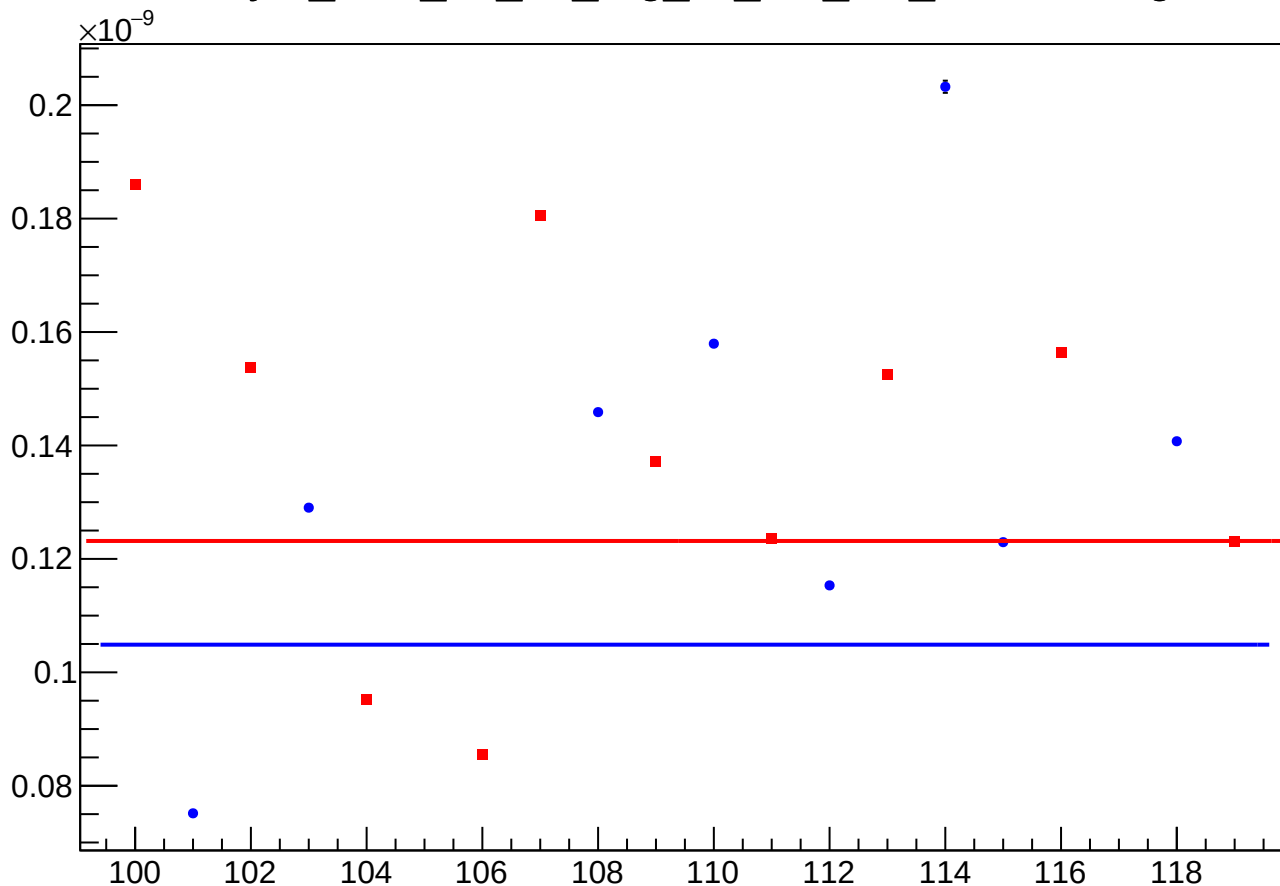
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 270800.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 187447.2/9

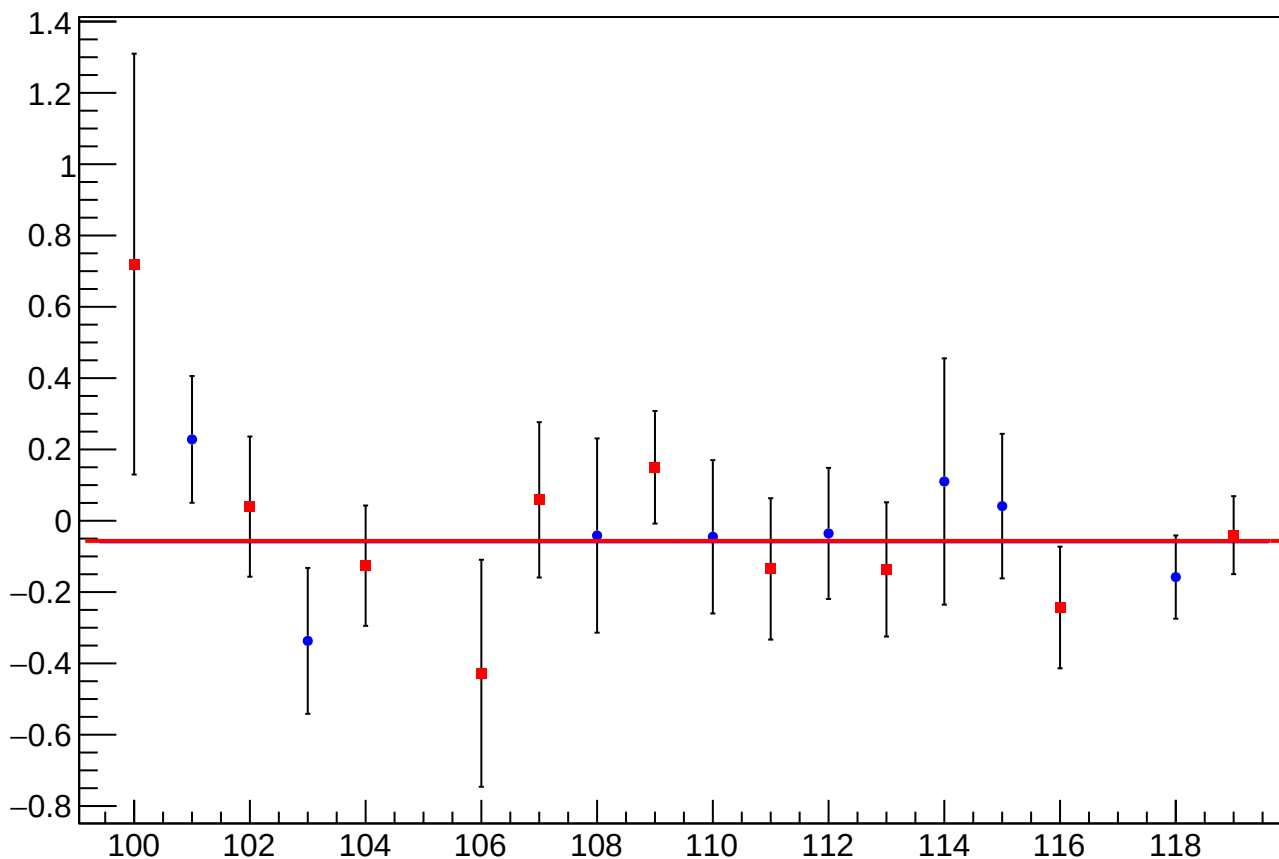
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 502150.0/17

- 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: -0.058 $\pm$ 0.066  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.056 $\pm$ 0.057  $\chi^2$ /NDF: 7.0/9

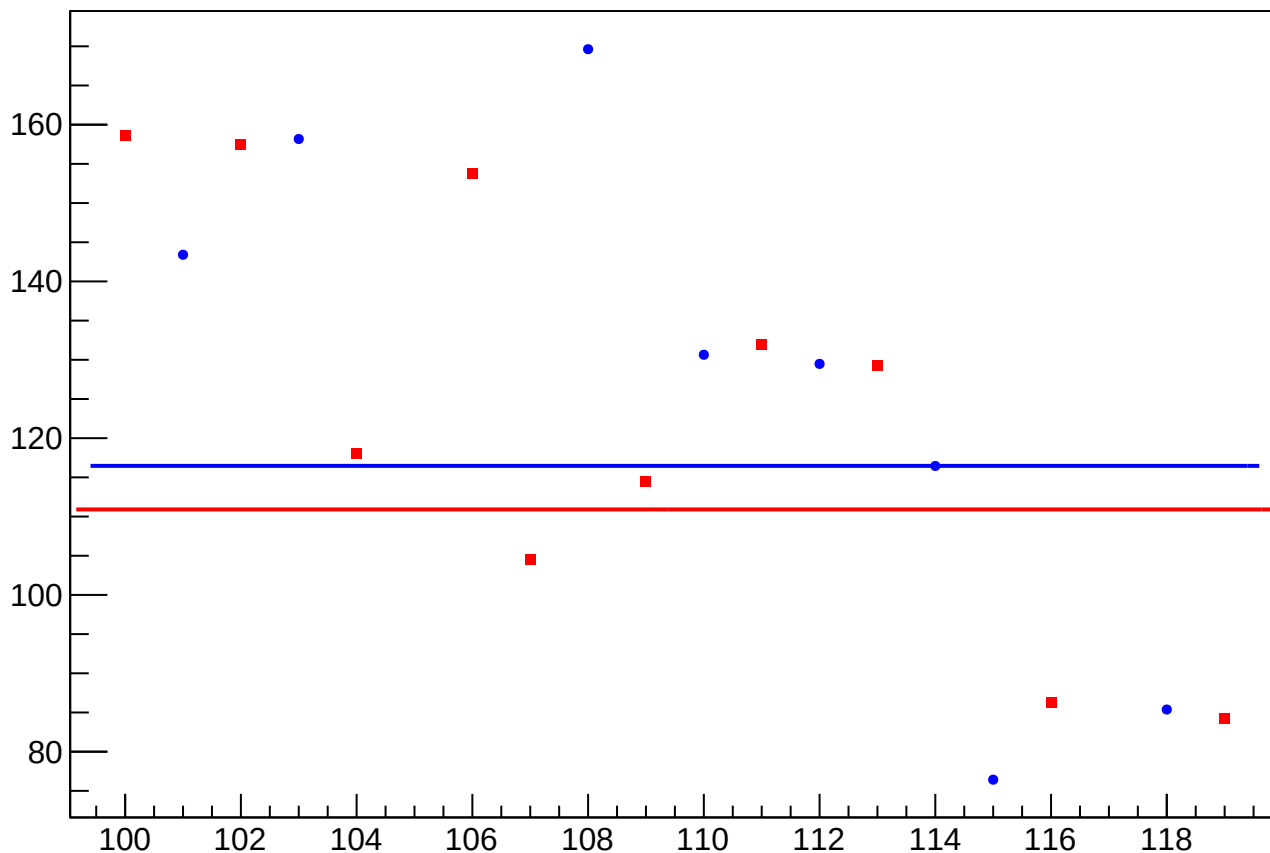
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.057 $\pm$ 0.043  $\chi^2$ /NDF: 12.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 116.467 $\pm$ 0.047  $\chi^2$ /NDF: 443933.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 110.908 $\pm$ 0.040  $\chi^2$ /NDF: 370241.2/9

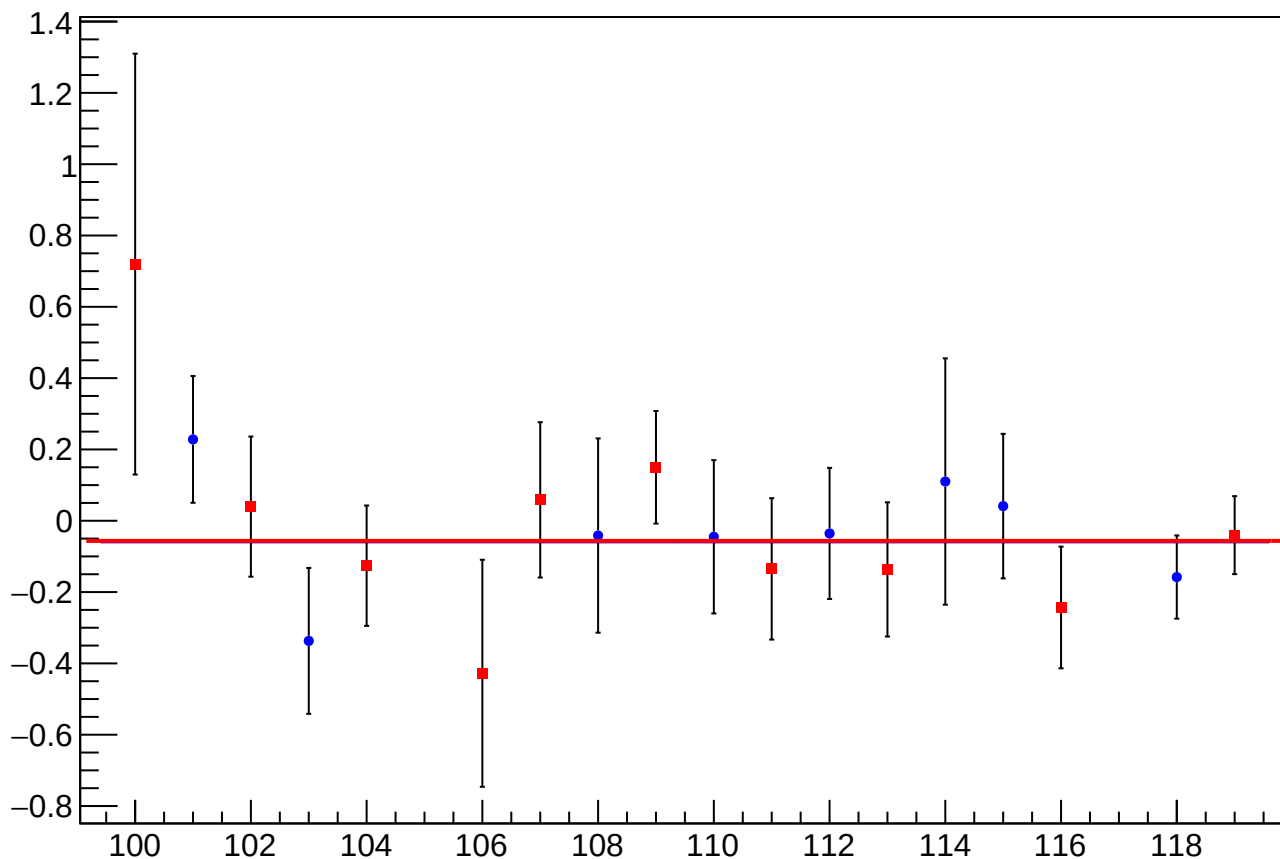
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 113.269 $\pm$ 0.031  $\chi^2$ /NDF: 822224.5/17

- 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: -0.058+/-0.066  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.056+/-0.057  $\chi^2/\text{NDF}$ : 7.0/9

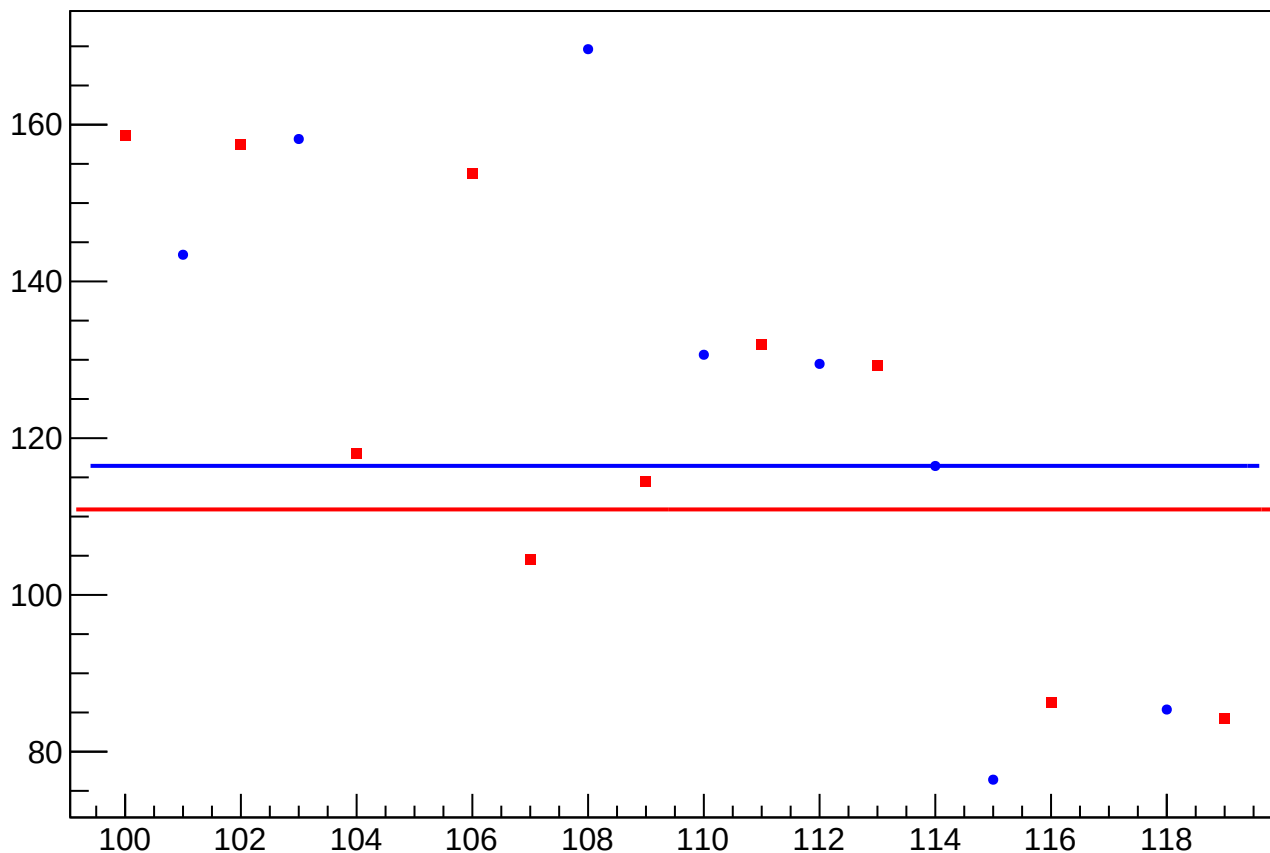
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.057+/-0.043  $\chi^2/\text{NDF}$ : 12.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 116.467 $\pm$ 0.047  $\chi^2$ /NDF: 443933.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 110.908 $\pm$ 0.040  $\chi^2$ /NDF: 370241.2/9

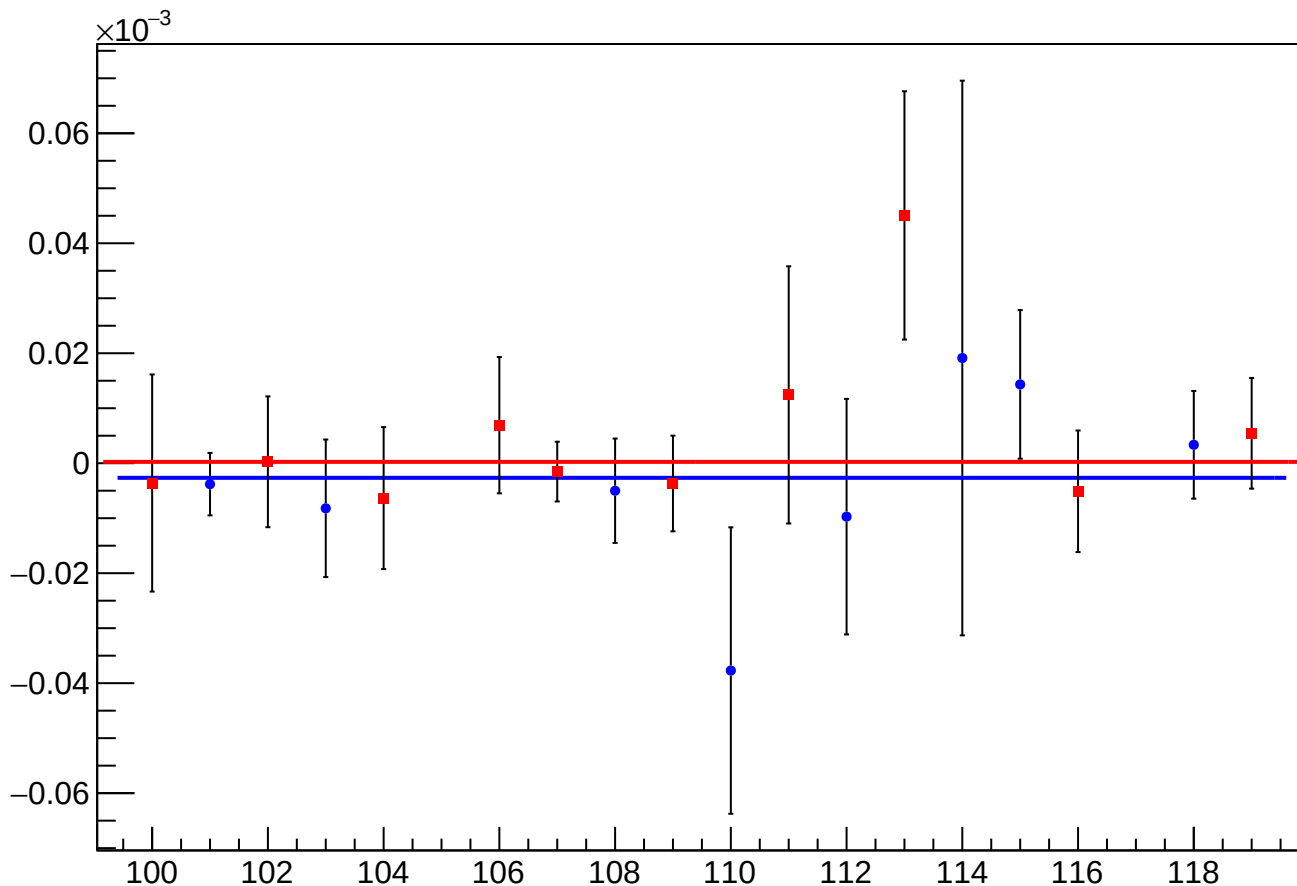
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 113.269 $\pm$ 0.031  $\chi^2$ /NDF: 822224.5/17

- 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  $\chi^2/\text{NDF}$ : 4.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.6/9

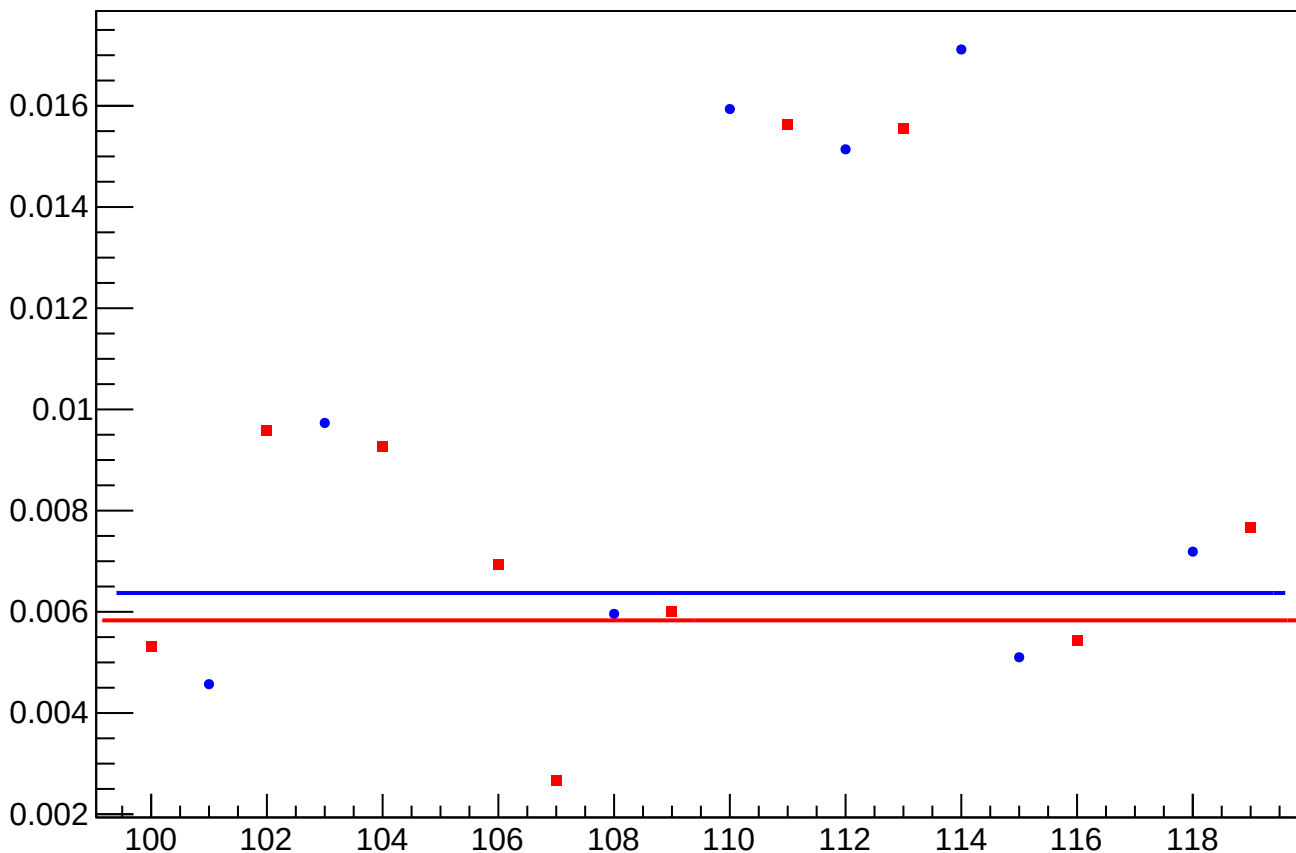
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.3/17

- 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  $\chi^2/\text{NDF}$ : 1076528.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1828603.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

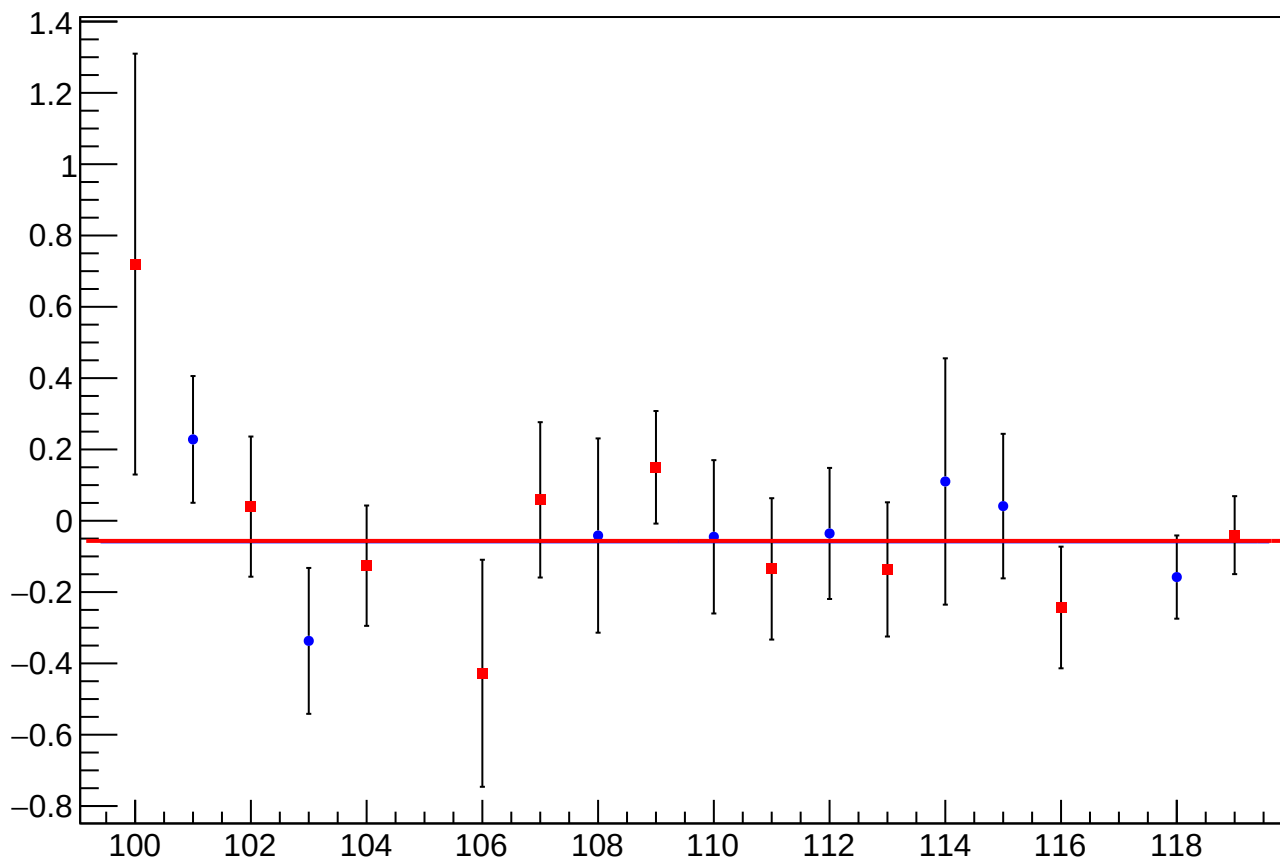
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2928047.1/17

- 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: -0.058 $\pm$ 0.066  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.056 $\pm$ 0.057  $\chi^2$ /NDF: 7.0/9

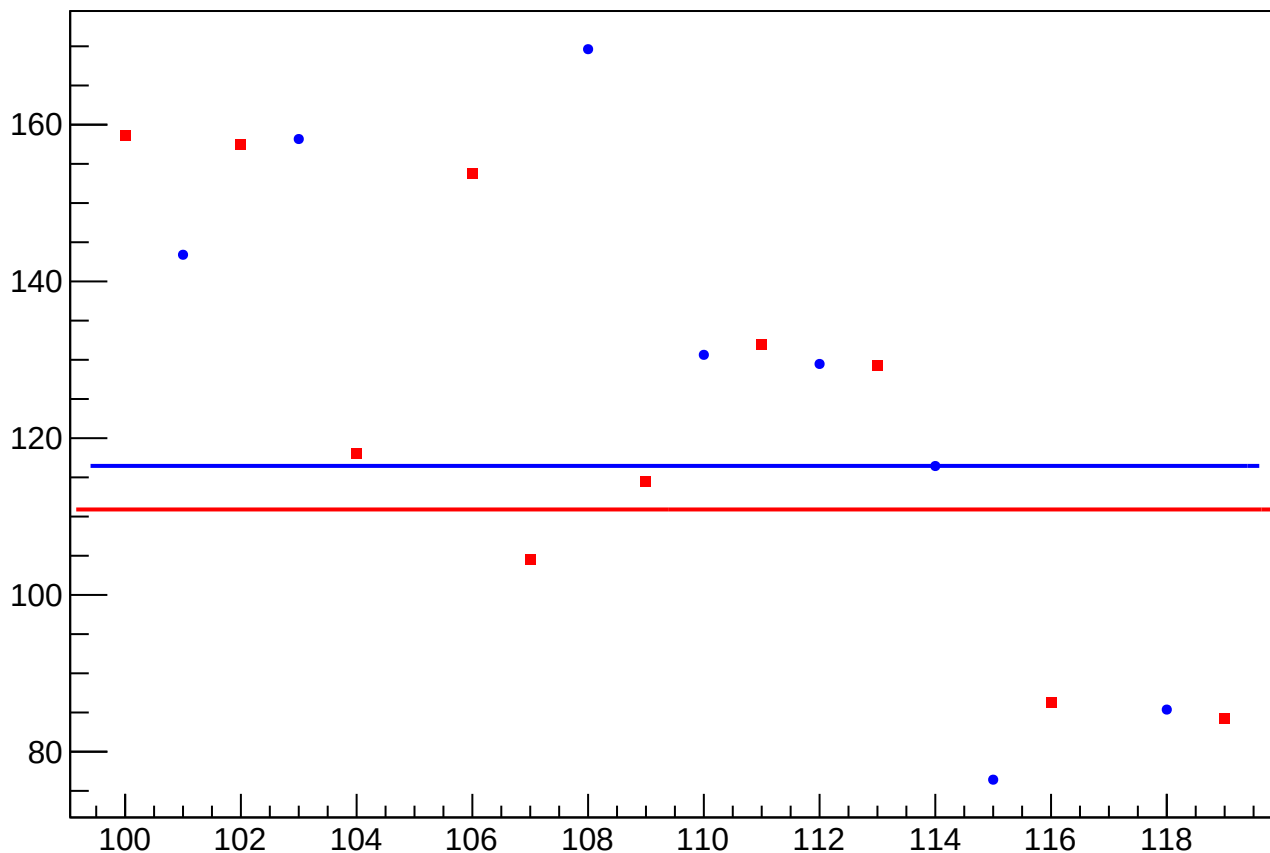
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.057 $\pm$ 0.043  $\chi^2$ /NDF: 12.7/17

- 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: 116.463 $\pm$ 0.047  $\chi^2$ /NDF: 443941.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 110.904 $\pm$ 0.040  $\chi^2$ /NDF: 370247.4/9

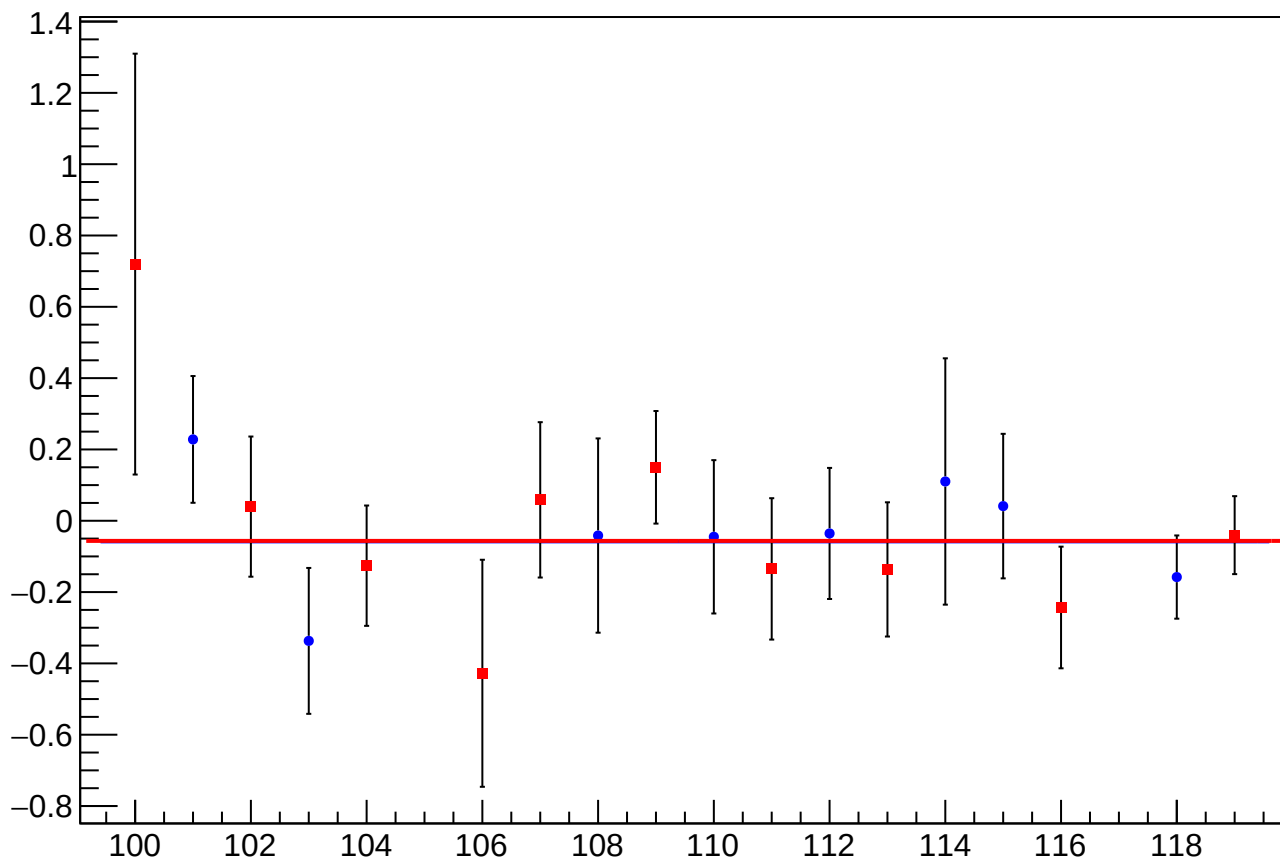
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 113.265 $\pm$ 0.031  $\chi^2$ /NDF: 822238.5/17

- 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: -0.058+/-0.066  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.056+/-0.057  $\chi^2/\text{NDF}$ : 7.0/9

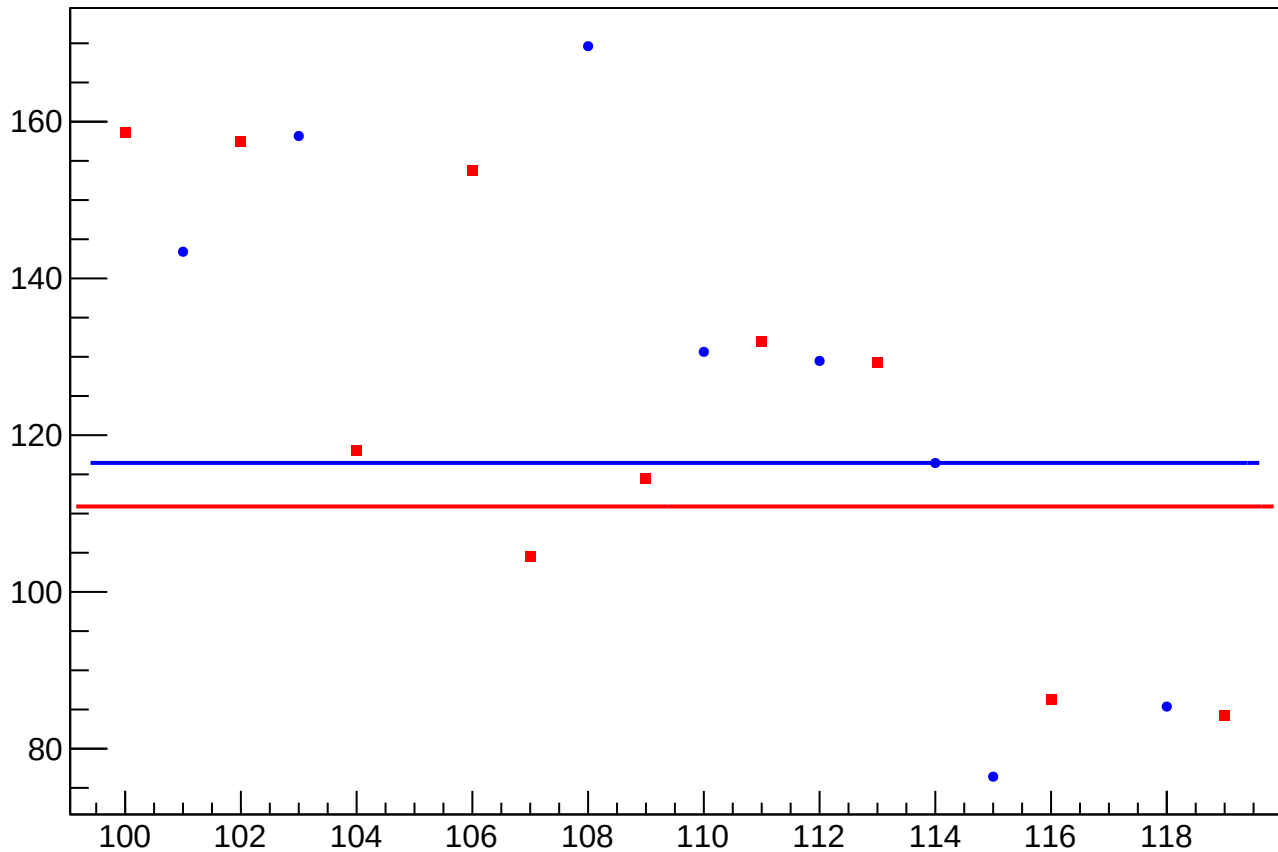
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.057+/-0.043  $\chi^2/\text{NDF}$ : 12.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 116.463 $\pm$ 0.047  $\chi^2$ /NDF: 443941.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 110.904 $\pm$ 0.040  $\chi^2$ /NDF: 370247.4/9

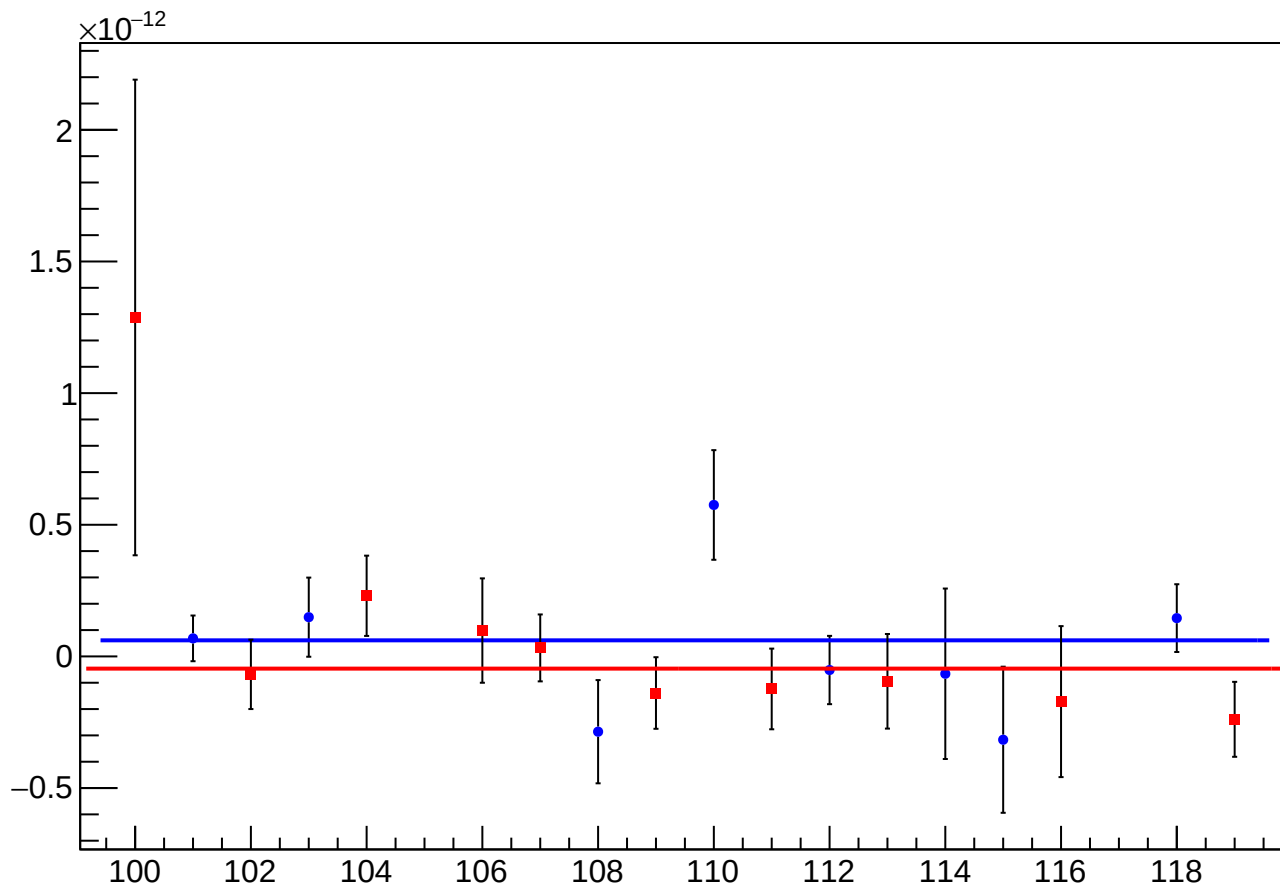
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 113.265 $\pm$ 0.031  $\chi^2$ /NDF: 822238.5/17

- 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  $\chi^2/\text{NDF}$ : 12.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 9.2/9

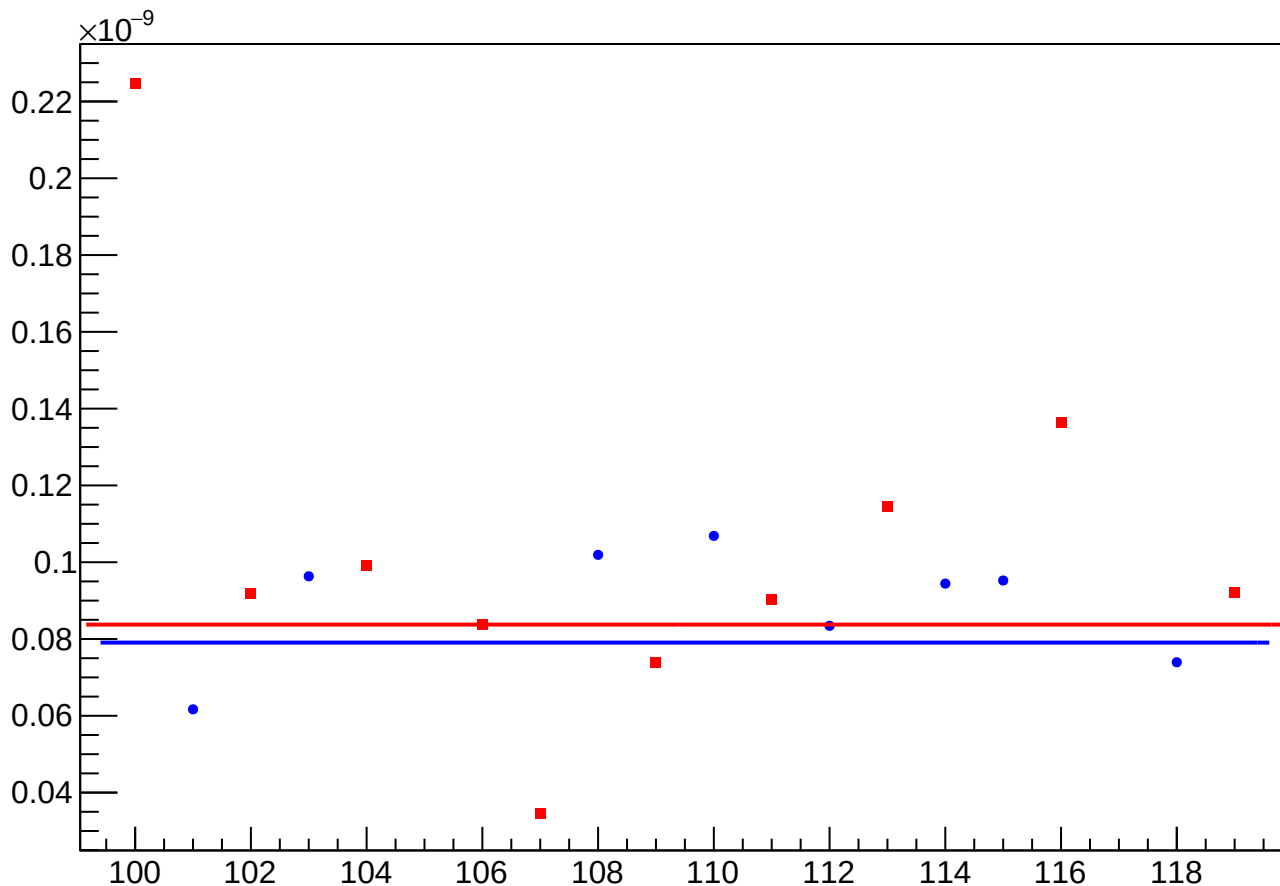
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 24.2/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 186168.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 522961.0/9

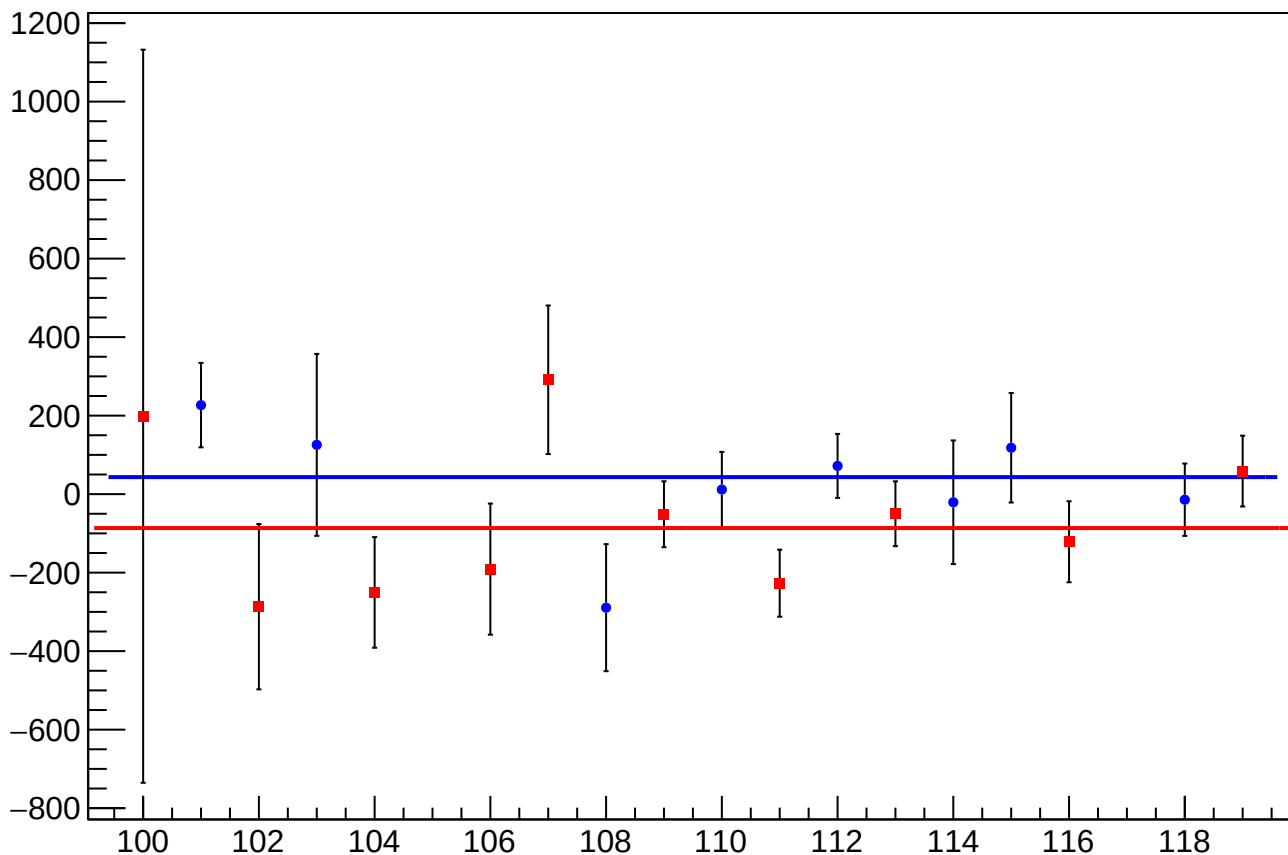
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 717328.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 43.374 $\pm$ 40.428  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -86.421 $\pm$ 35.794  $\chi^2$ /NDF: 12.5/9

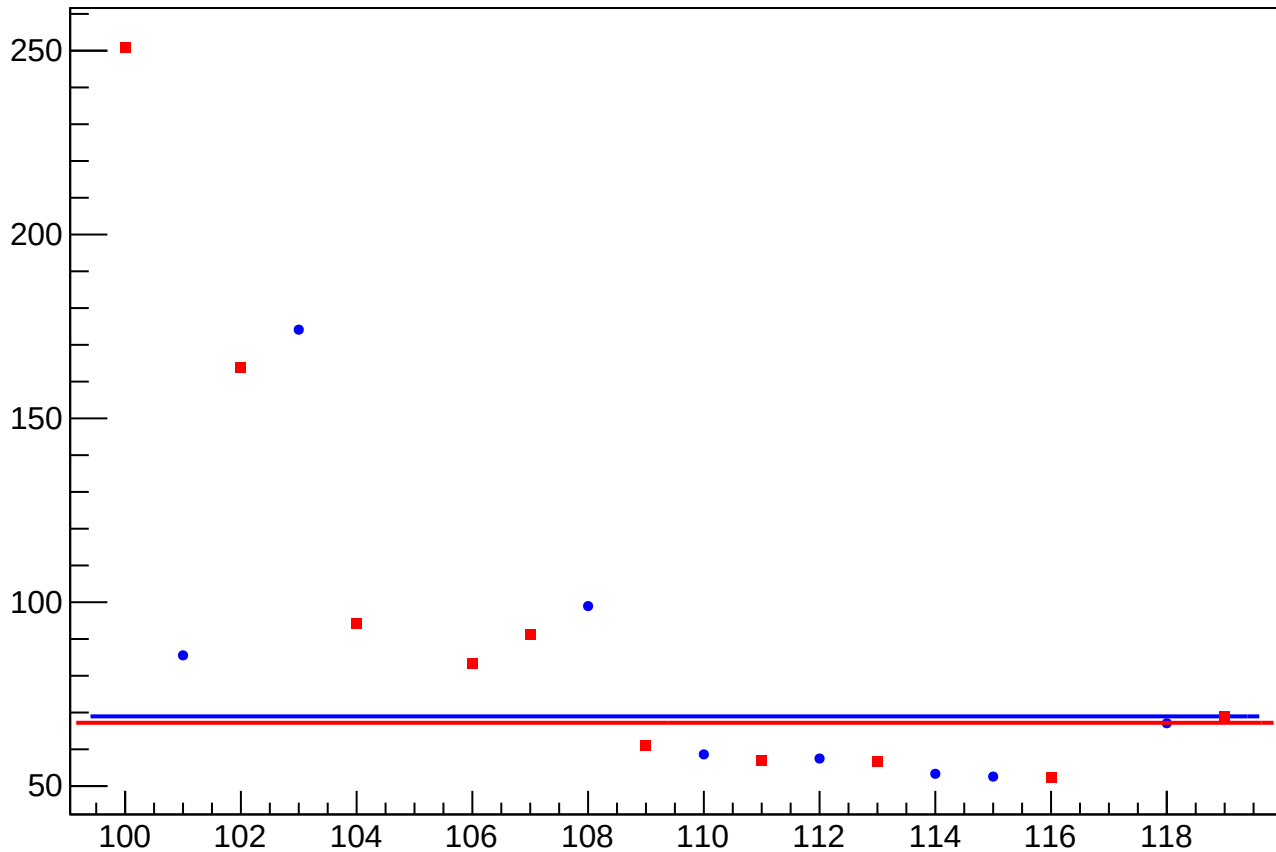
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -29.386 $\pm$ 26.800  $\chi^2$ /NDF: 26.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 68.956+/-0.029  $\chi^2/\text{NDF}$ : 639051.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 67.216+/-0.025  $\chi^2/\text{NDF}$ : 736720.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

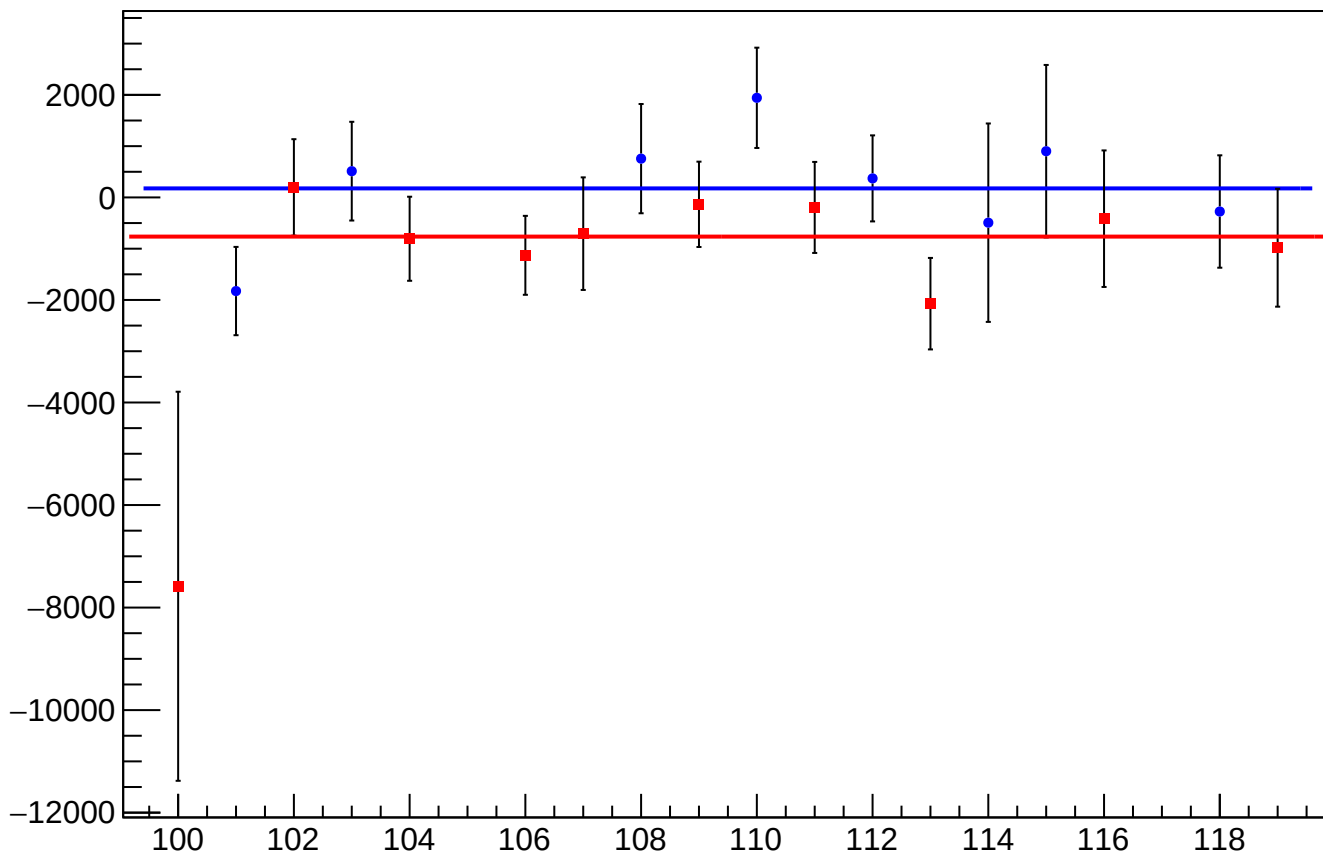
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.981+/-0.019  $\chi^2/\text{NDF}$ : 1377849.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_37\_dd\_reg\_correction\_mean vs Slug



Right In: 176.000 $\pm$ 372.007  $\chi^2$ /NDF: 9.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -764.152 $\pm$ 308.699  $\chi^2$ /NDF: 7.7/9

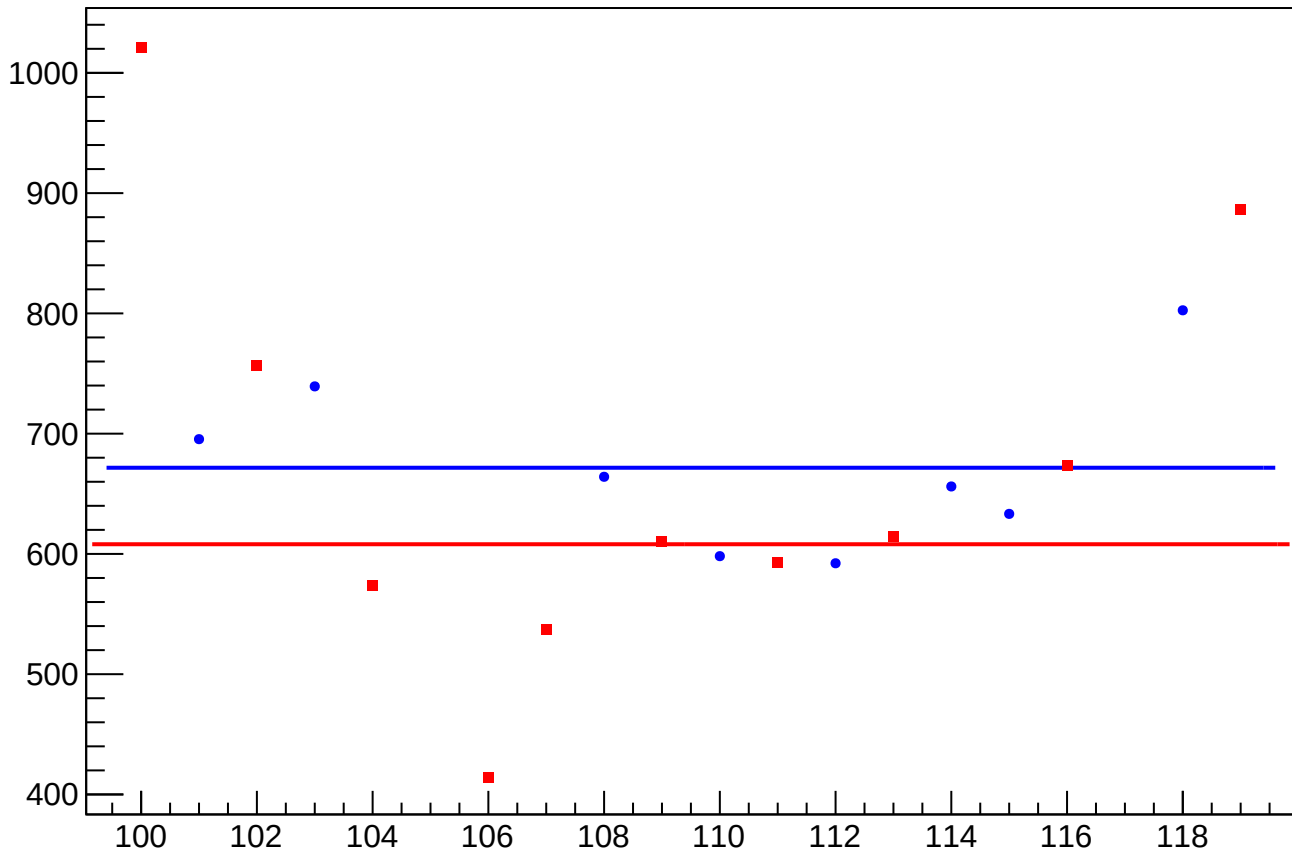
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -380.765 $\pm$ 237.559  $\chi^2$ /NDF: 21.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_reg\_correction\_rms vs Slug



Right In: 671.661 $\pm$ 0.263  $\chi^2$ /NDF: 70407.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 608.051 $\pm$ 0.218  $\chi^2$ /NDF: 334741.0/9

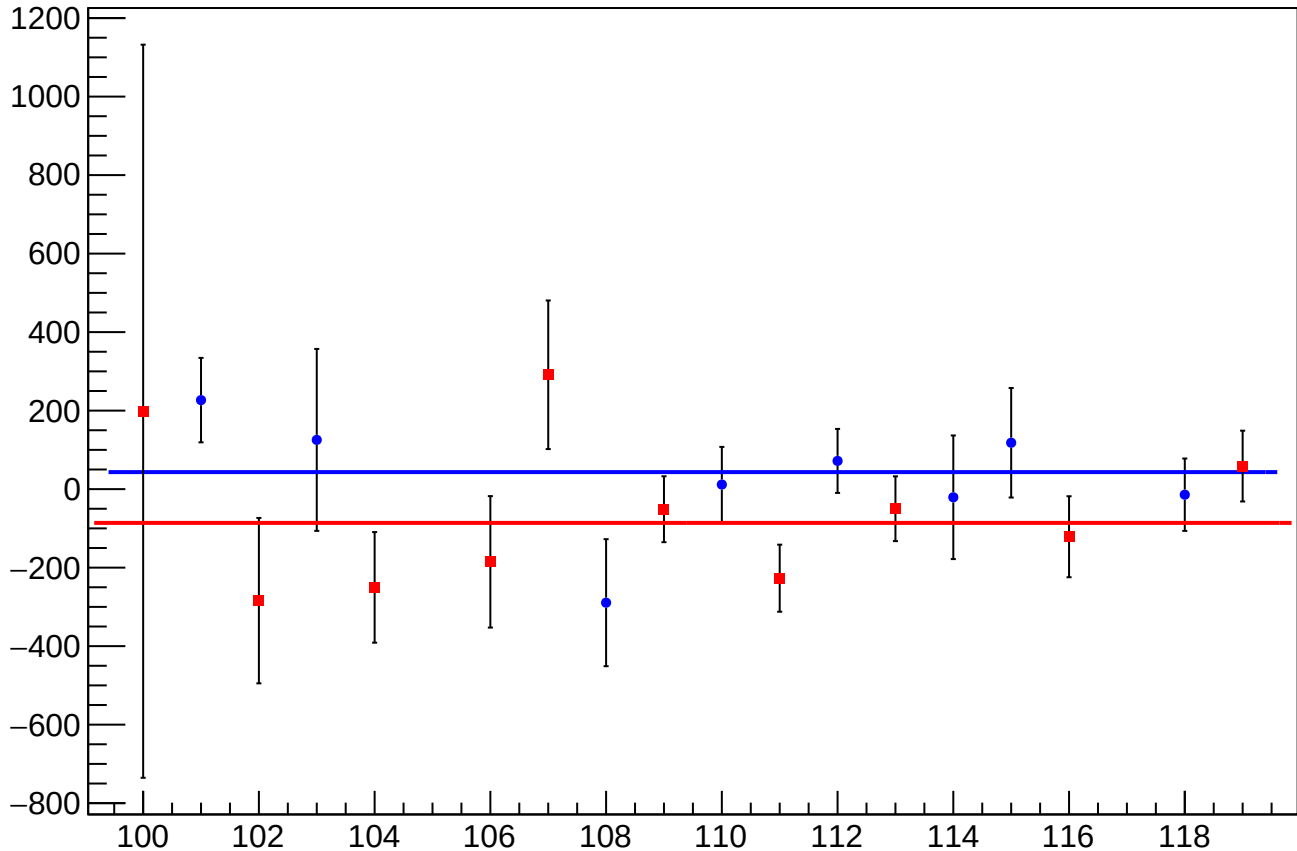
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 633.991 $\pm$ 0.168  $\chi^2$ /NDF: 439779.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 43.363+/-40.428  $\chi^2/\text{NDF}$ : 8.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -86.033+/-35.799  $\chi^2/\text{NDF}$ : 12.4/9

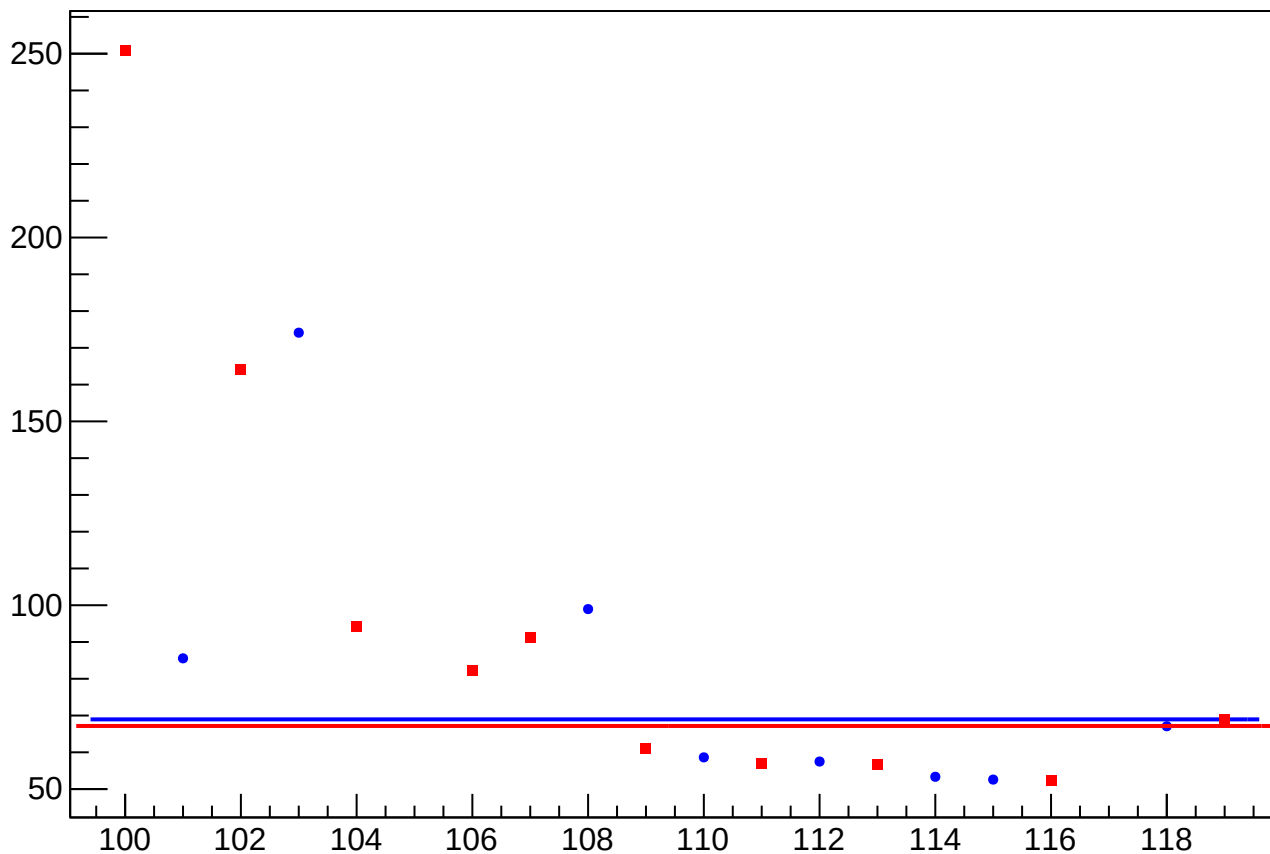
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -29.165+/-26.801  $\chi^2/\text{NDF}$ : 26.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 68.956+/-0.029  $\chi^2/\text{NDF}$ : 639053.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 67.165+/-0.025  $\chi^2/\text{NDF}$ : 734535.3/9

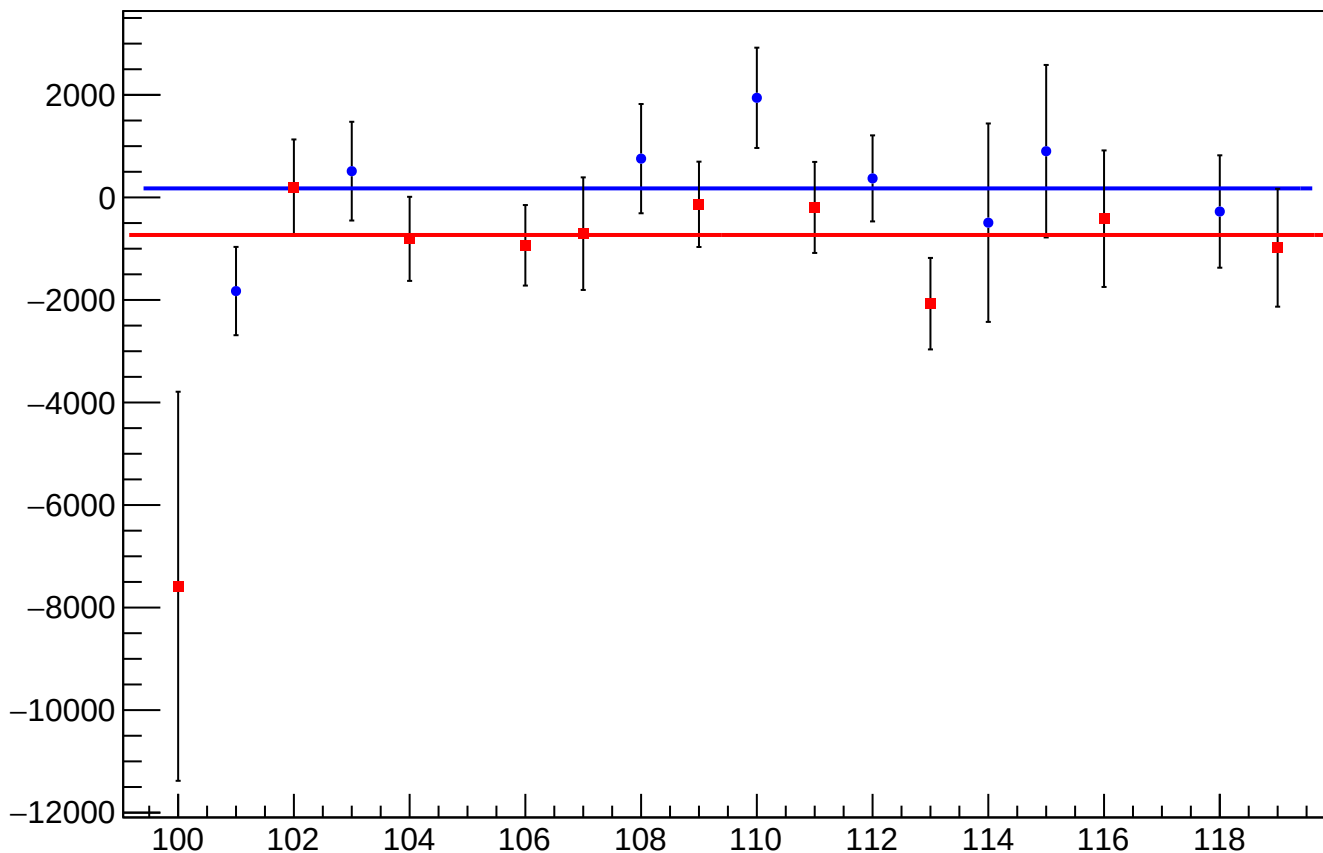
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.952+/-0.019  $\chi^2/\text{NDF}$ : 1375789.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_cor\_correction\_mean vs Slug



Right In: 176.017 $\pm$ 372.014  $\chi^2$ /NDF: 9.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -732.570 $\pm$ 309.708  $\chi^2$ /NDF: 7.5/9

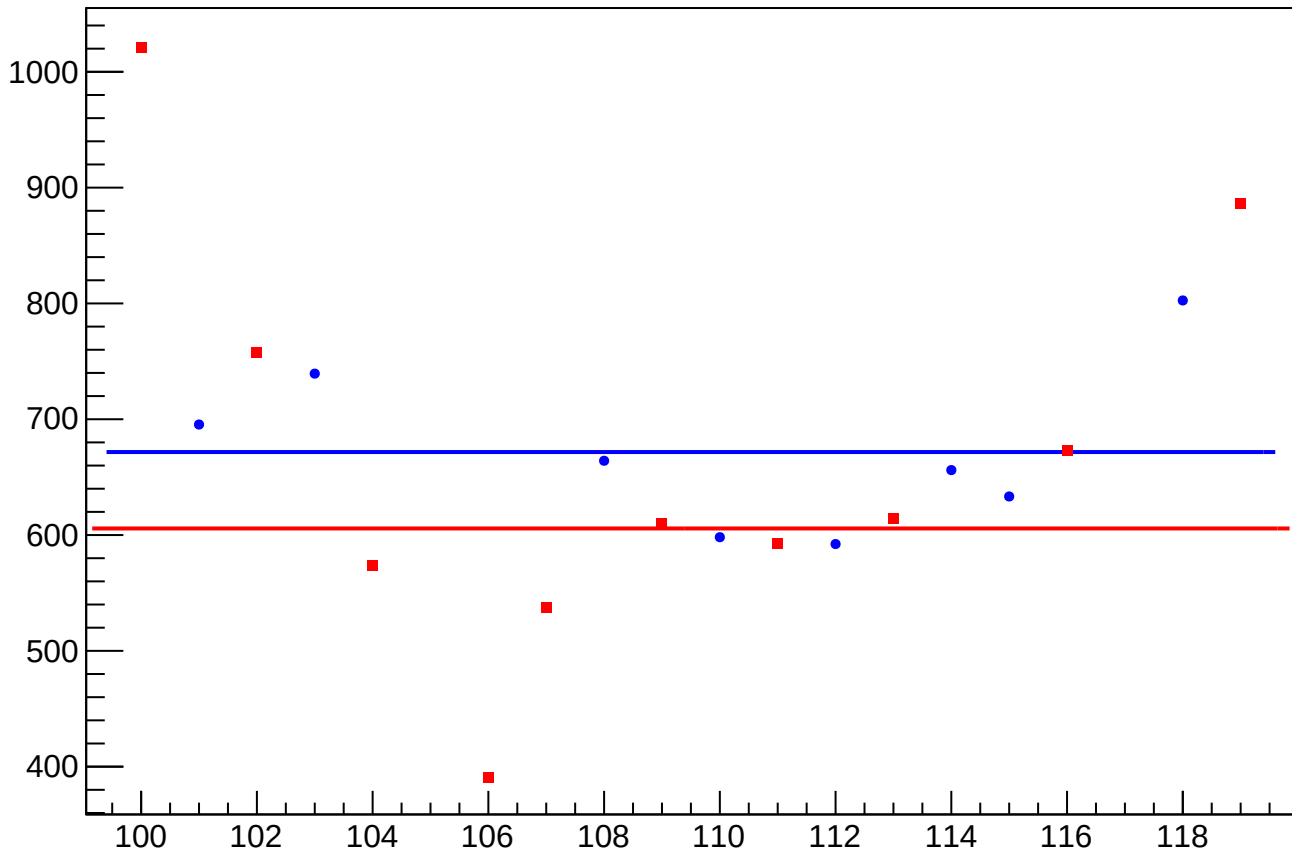
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -360.629 $\pm$ 238.020  $\chi^2$ /NDF: 20.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_cor\_correction\_rms vs Slug



Right In: 671.670 $\pm$ 0.263  $\chi^2$ /NDF: 70428.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 605.680 $\pm$ 0.219  $\chi^2$ /NDF: 361268.7/9

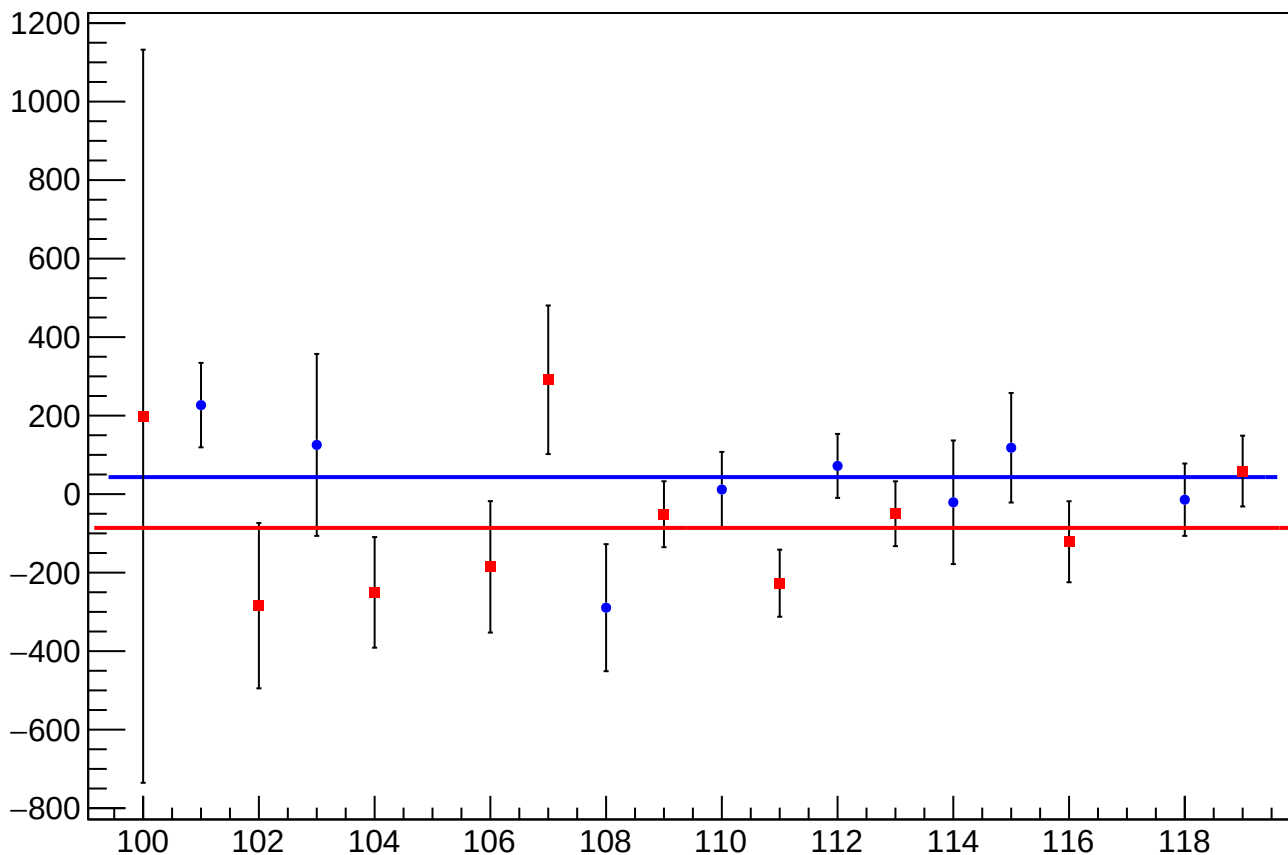
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 632.694 $\pm$ 0.168  $\chi^2$ /NDF: 468867.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 43.363+/-40.428  $\chi^2/\text{NDF}$ : 8.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -86.033+/-35.799  $\chi^2/\text{NDF}$ : 12.4/9

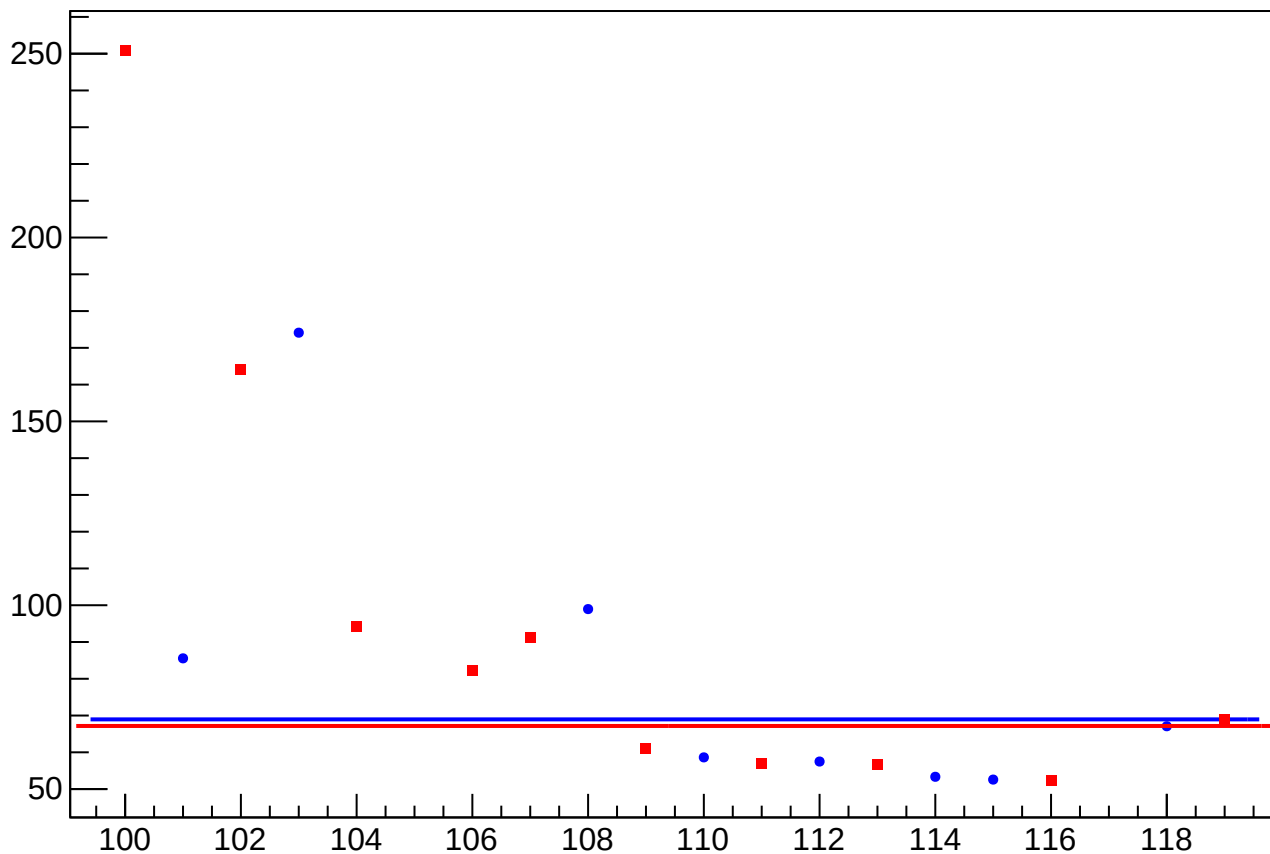
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -29.165+/-26.801  $\chi^2/\text{NDF}$ : 26.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 68.956+/-0.029  $\chi^2/\text{NDF}$ : 639053.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 67.165+/-0.025  $\chi^2/\text{NDF}$ : 734535.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

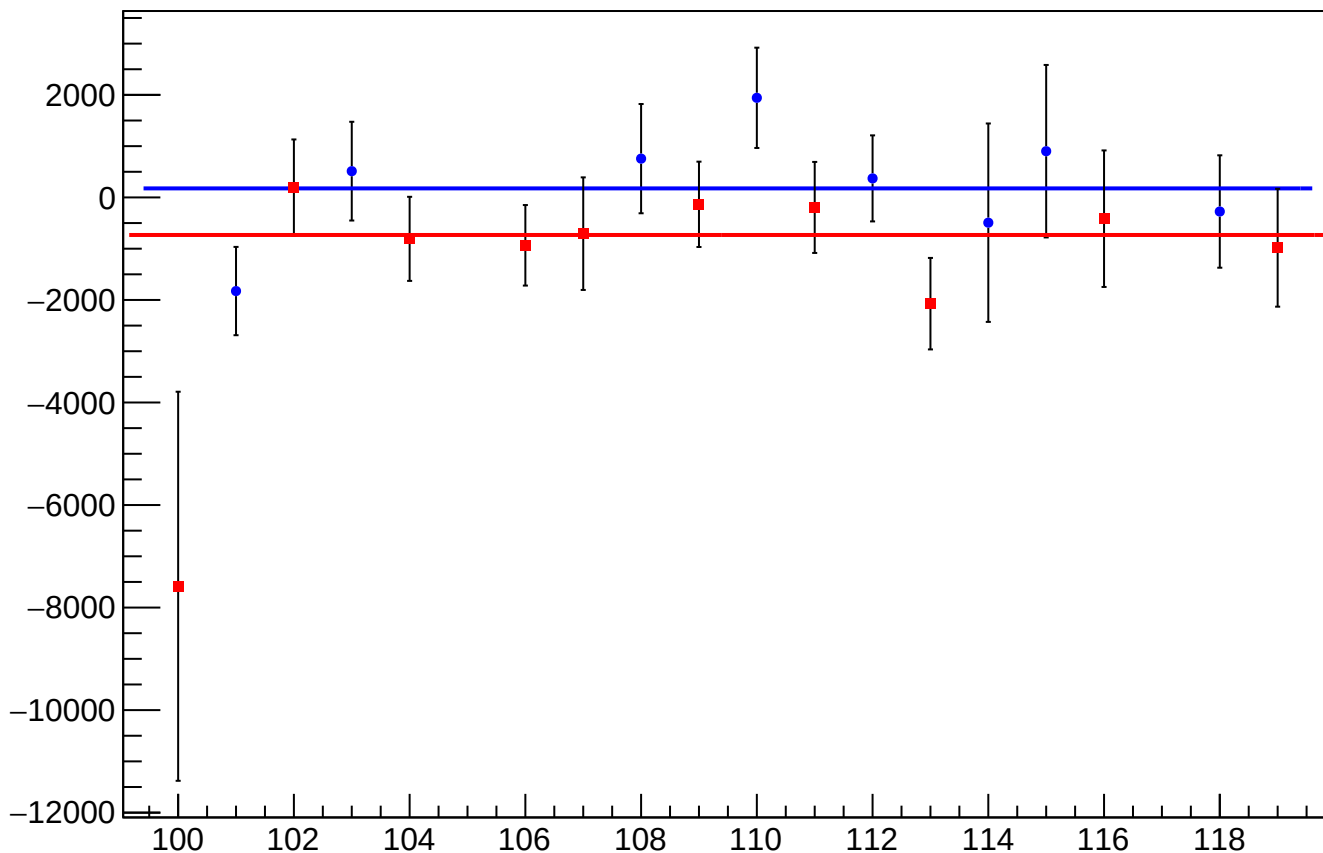
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.952+/-0.019  $\chi^2/\text{NDF}$ : 1375789.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 176.017 $\pm$ 372.014  $\chi^2$ /NDF: 9.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -732.570 $\pm$ 309.708  $\chi^2$ /NDF: 7.5/9

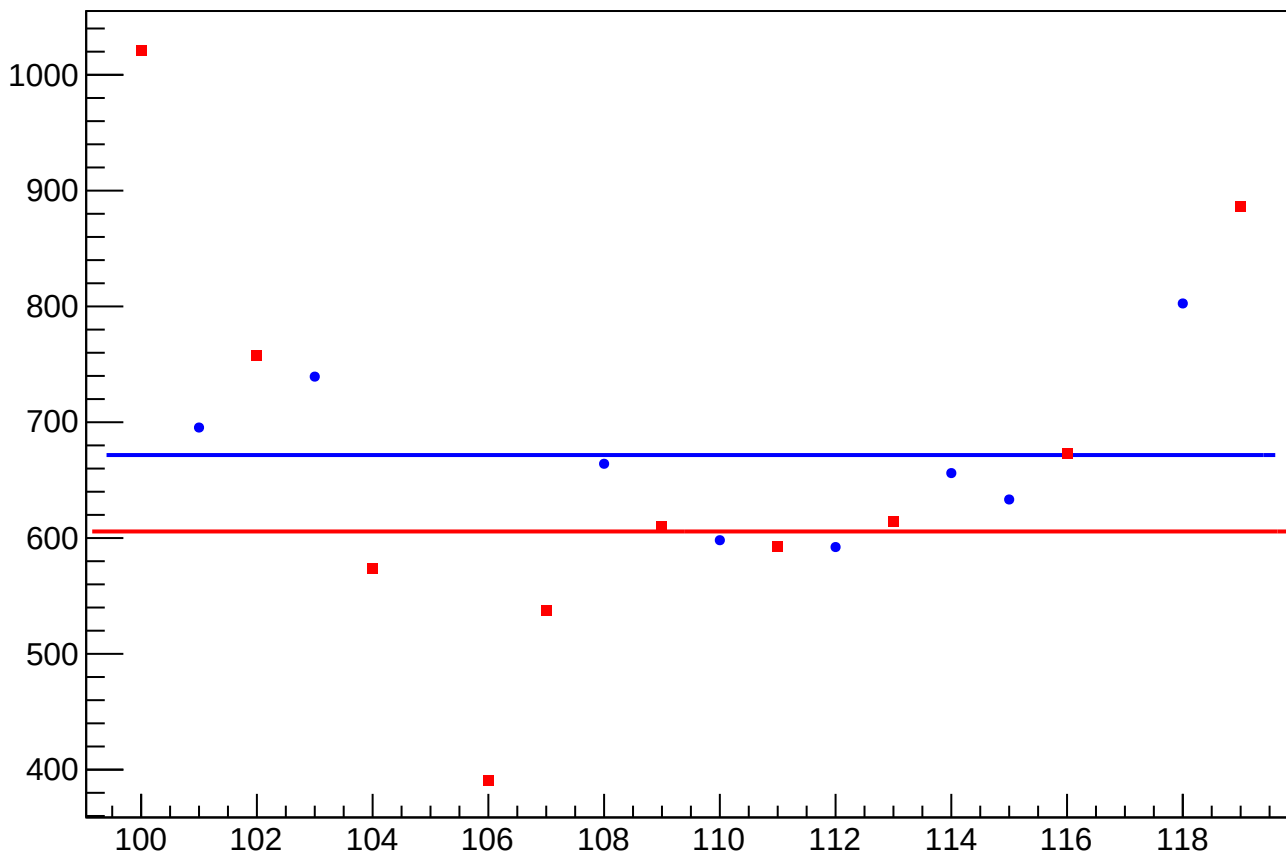
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -360.629 $\pm$ 238.020  $\chi^2$ /NDF: 20.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 671.670 $\pm$ 0.263  $\chi^2$ /NDF: 70428.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 605.680 $\pm$ 0.219  $\chi^2$ /NDF: 361268.7/9

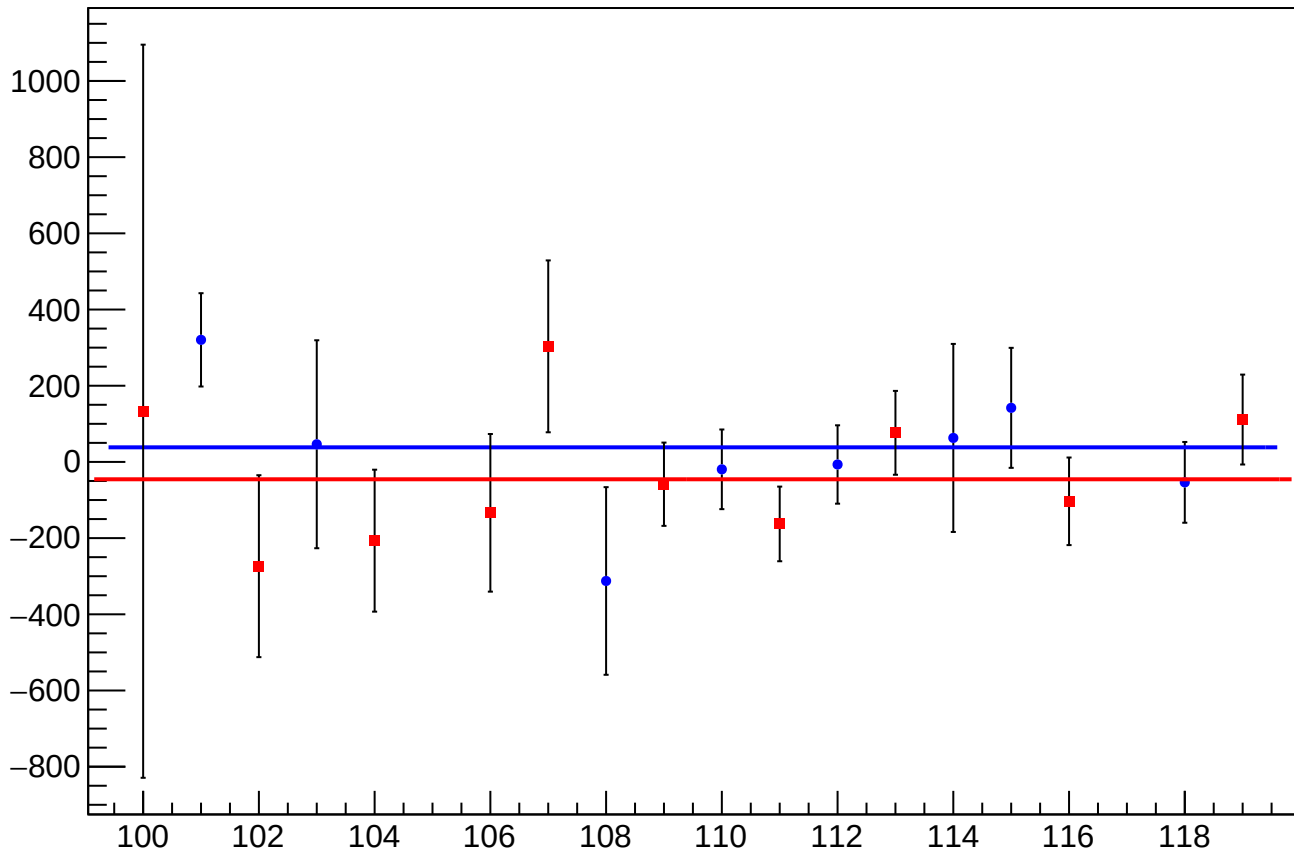
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 632.694 $\pm$ 0.168  $\chi^2$ /NDF: 468867.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 38.305+/-48.321  $\chi^2/\text{NDF}$ : 9.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -45.559+/-44.349  $\chi^2/\text{NDF}$ : 9.0/9

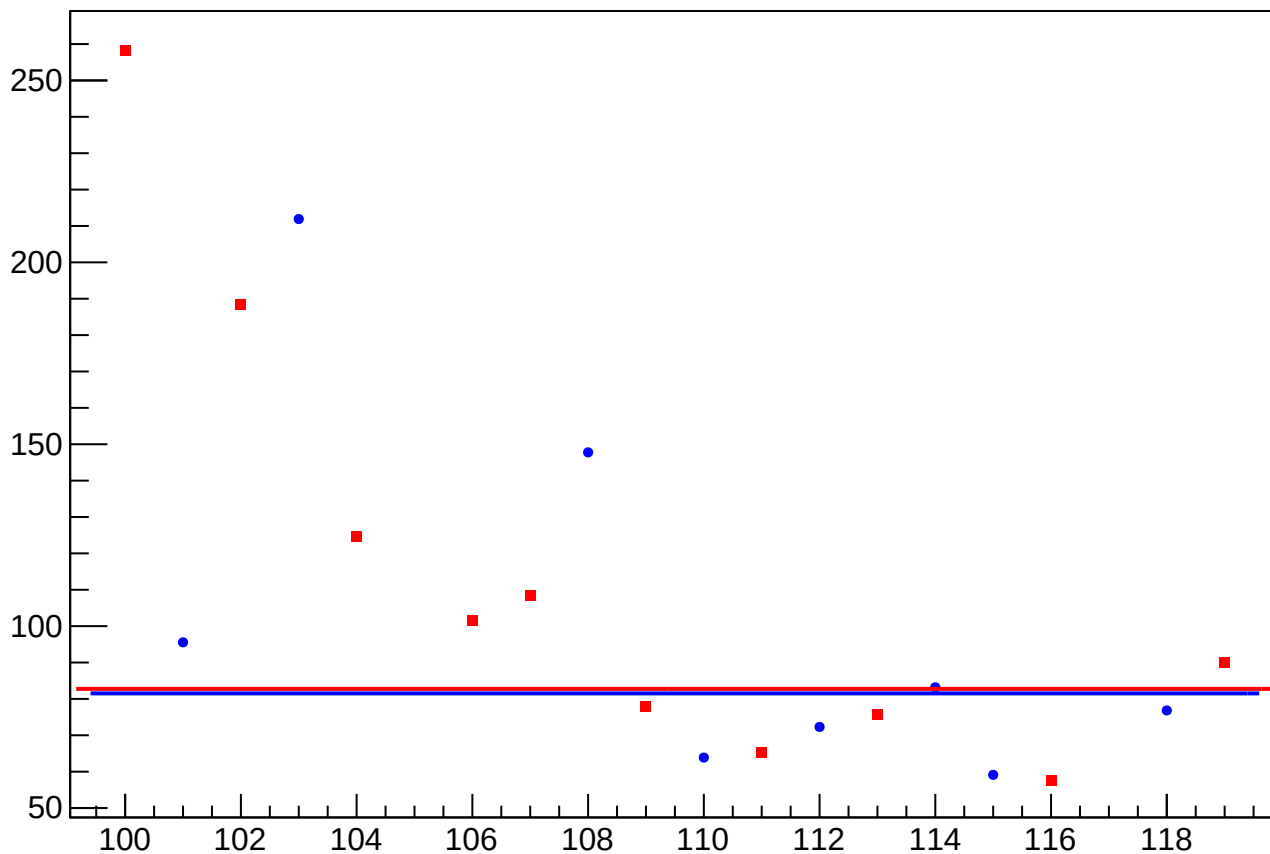
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.215+/-32.674  $\chi^2/\text{NDF}$ : 19.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 81.515+/-0.034  $\chi^2/\text{NDF}$ : 744966.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 82.758+/-0.031  $\chi^2/\text{NDF}$ : 781918.2/9

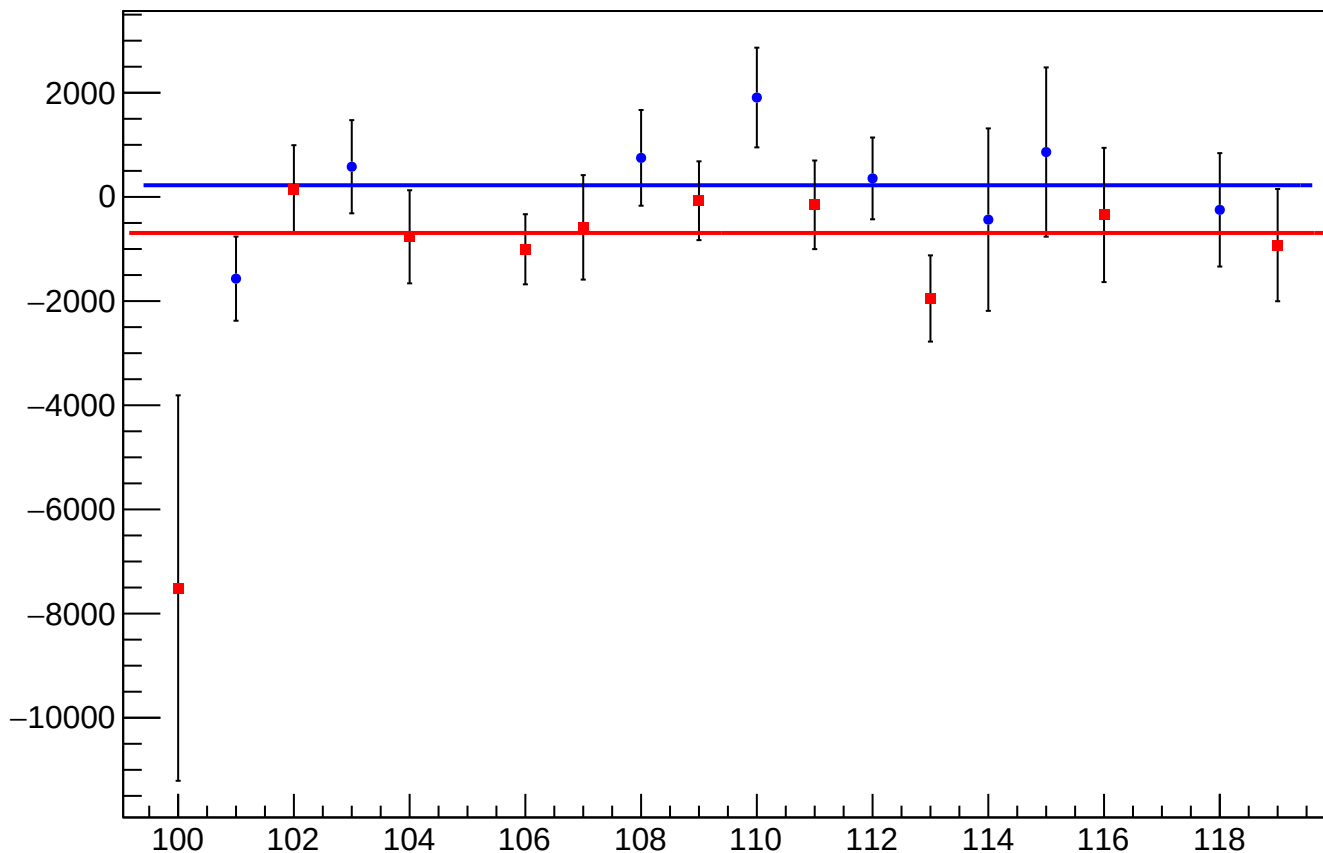
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 82.190+/-0.023  $\chi^2/\text{NDF}$ : 1527604.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_dit\_correction\_mean vs Slug



Right In: 224.040 $\pm$ 348.625  $\chi^2$ /NDF: 9.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -691.440 $\pm$ 288.873  $\chi^2$ /NDF: 8.1/9

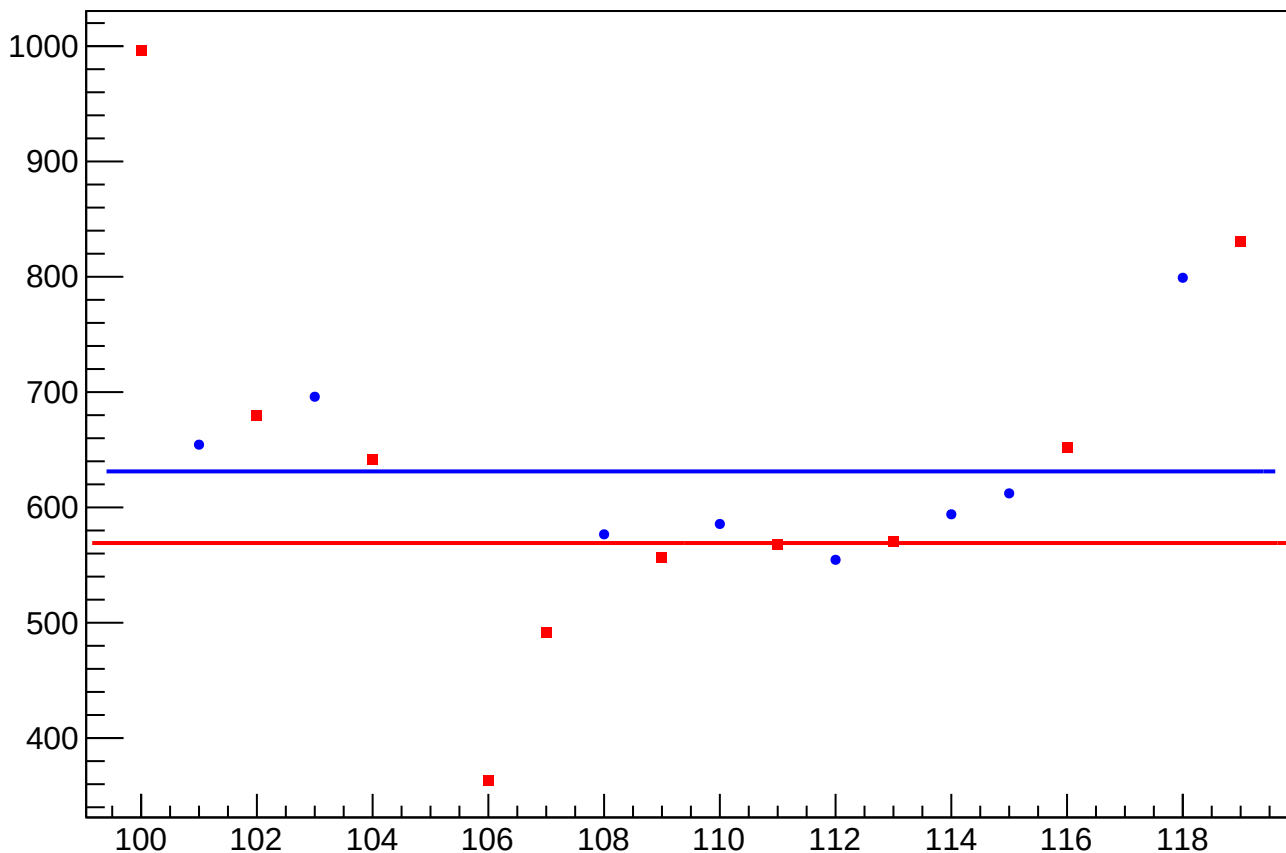
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -318.760 $\pm$ 222.434  $\chi^2$ /NDF: 21.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_dit\_correction\_rms vs Slug



Right In: 631.233+/-0.247  $\chi^2/\text{NDF}$ : 91535.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 569.126+/-0.204  $\chi^2/\text{NDF}$ : 399721.7/9

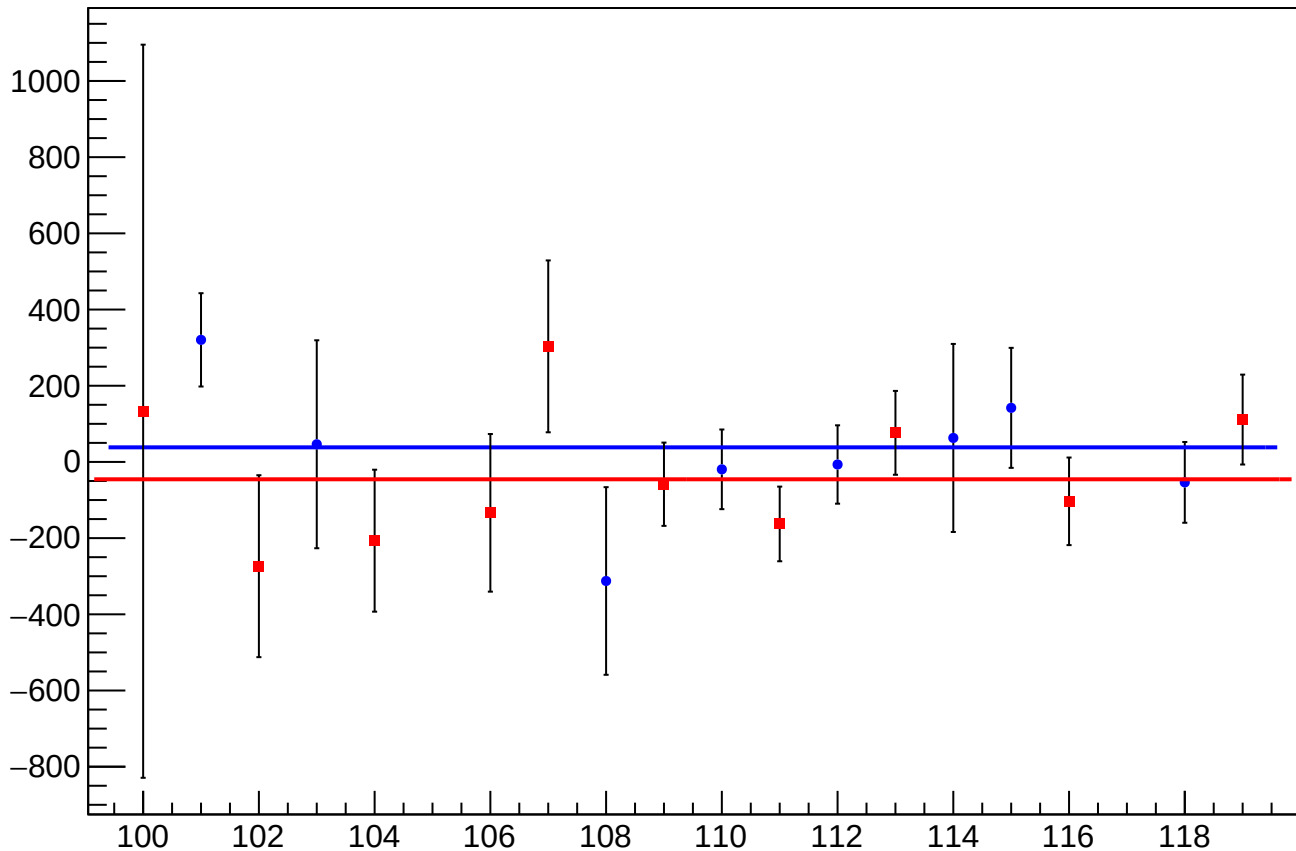
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 594.409+/-0.157  $\chi^2/\text{NDF}$ : 528891.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 38.305+/-48.321  $\chi^2/\text{NDF}$ : 9.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -45.558+/-44.349  $\chi^2/\text{NDF}$ : 9.0/9

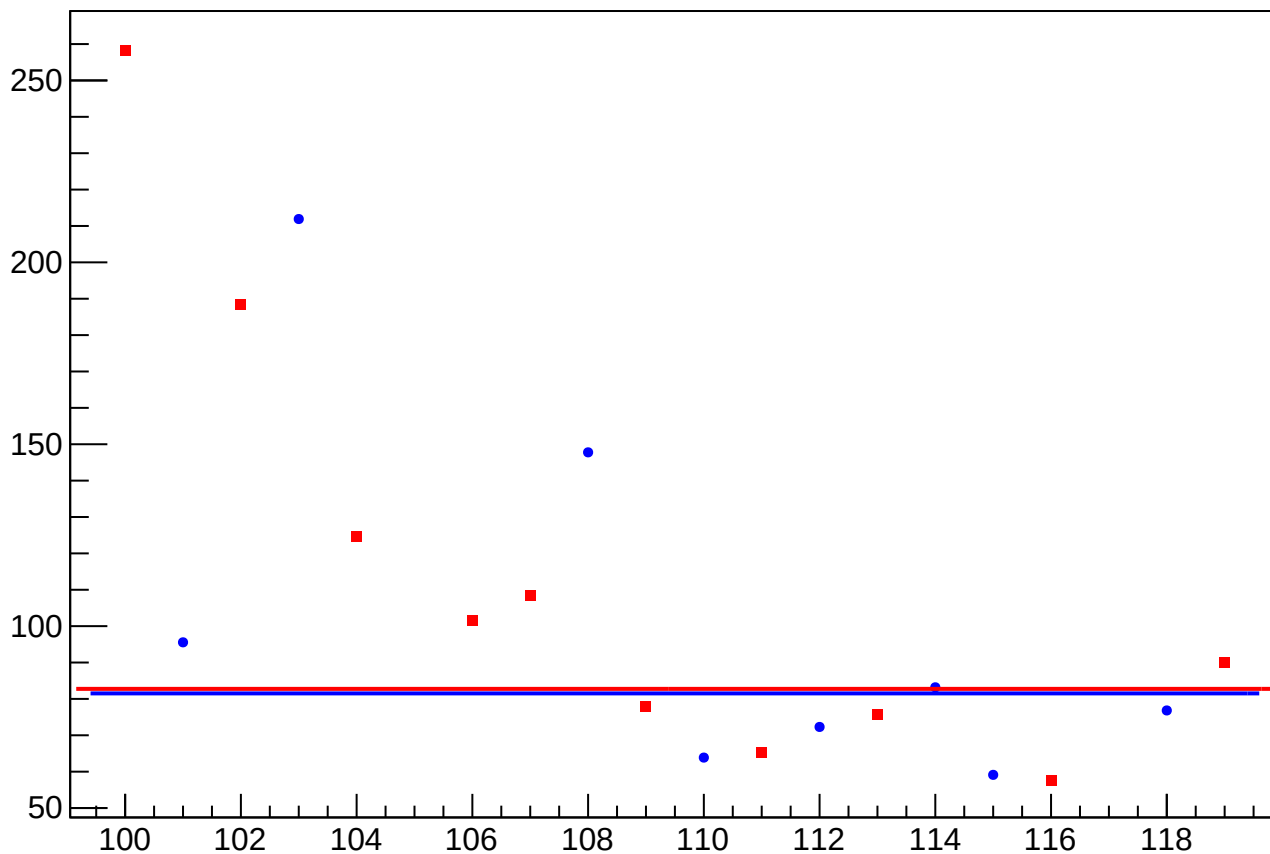
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.215+/-32.674  $\chi^2/\text{NDF}$ : 19.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 81.515+/-0.034  $\chi^2/\text{NDF}$ : 744976.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 82.758+/-0.031  $\chi^2/\text{NDF}$ : 781913.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

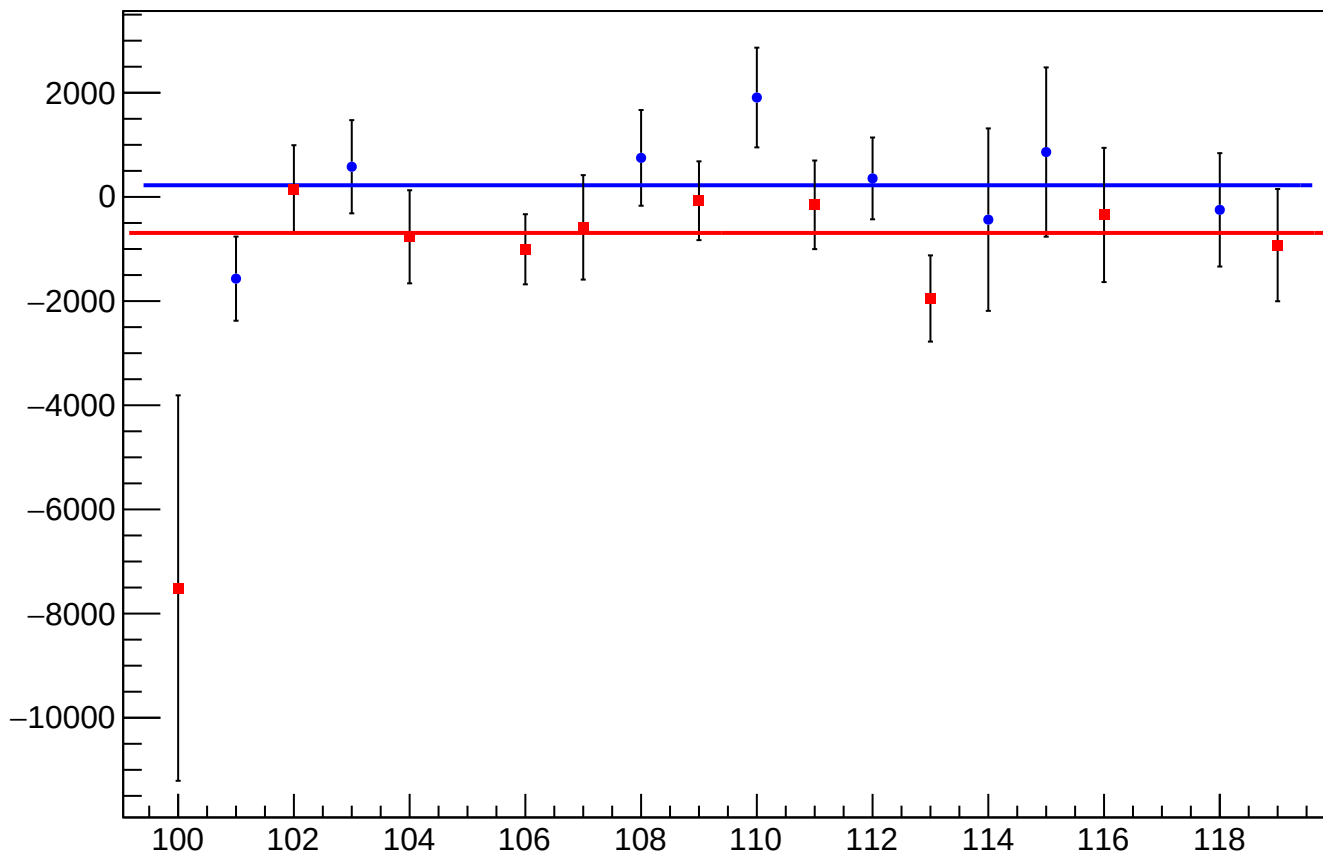
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 82.190+/-0.023  $\chi^2/\text{NDF}$ : 1527608.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 224.039 $\pm$ 348.624  $\chi^2$ /NDF: 9.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -691.439 $\pm$ 288.872  $\chi^2$ /NDF: 8.1/9

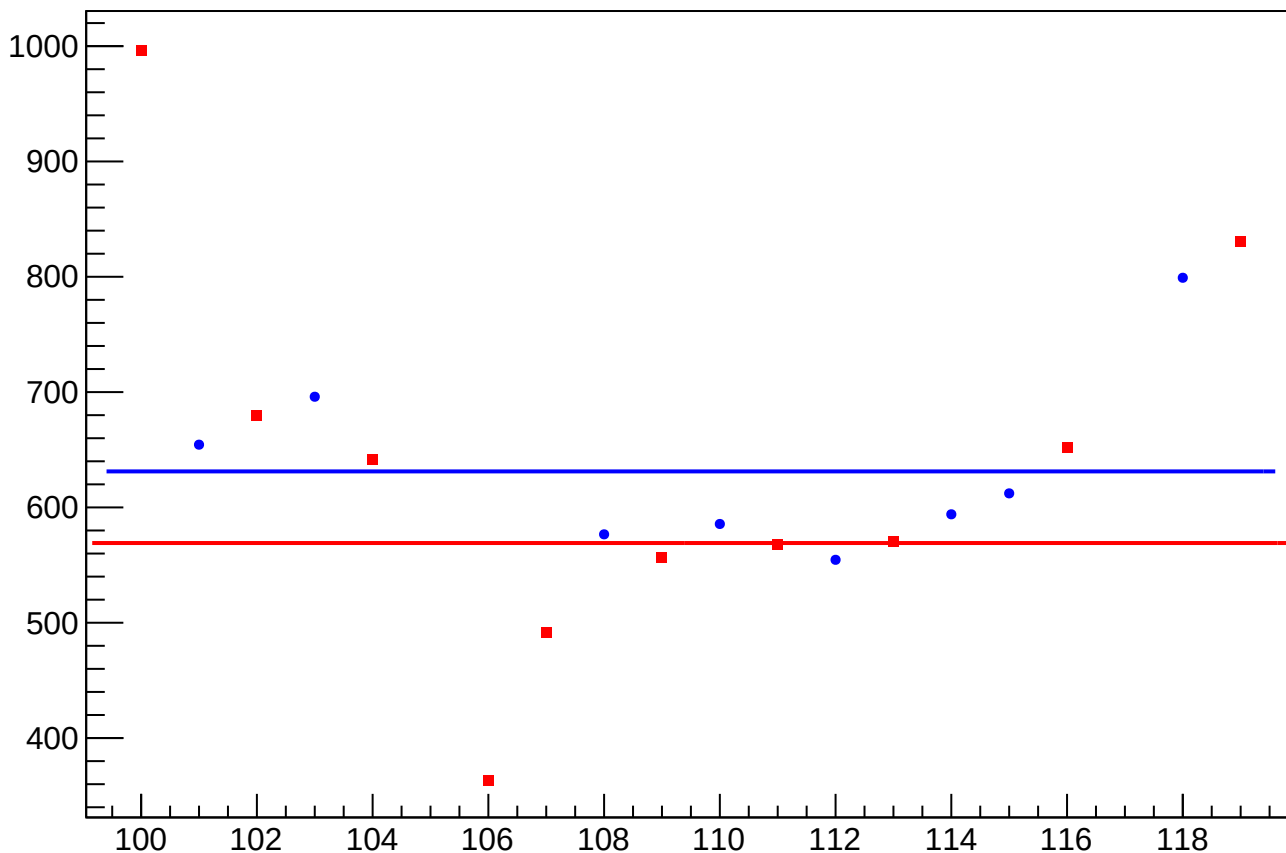
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -318.760 $\pm$ 222.434  $\chi^2$ /NDF: 21.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 631.232 $\pm$ 0.247  $\chi^2$ /NDF: 91536.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 569.125 $\pm$ 0.204  $\chi^2$ /NDF: 399723.5/9

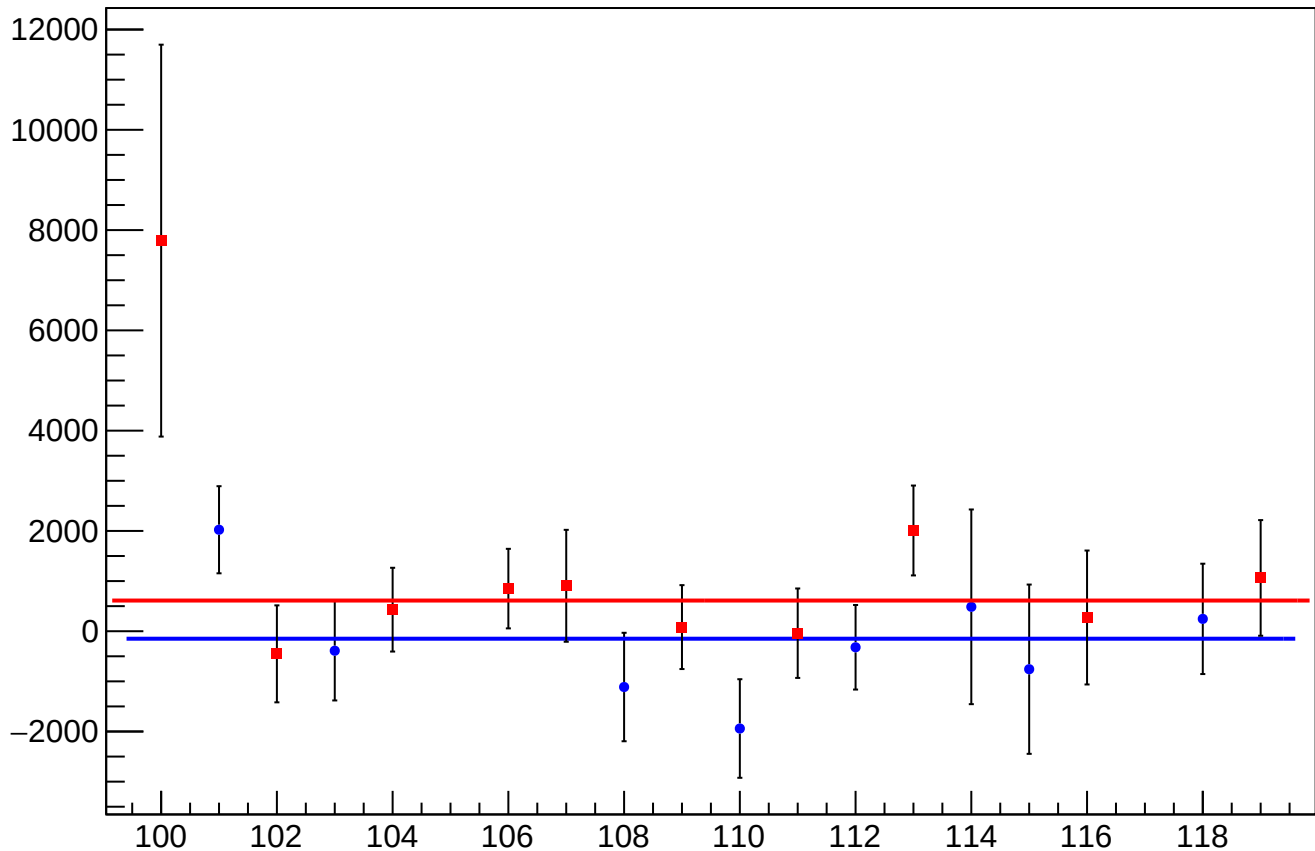
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 594.408 $\pm$ 0.157  $\chi^2$ /NDF: 528894.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_mean vs Slug



Right In:  $-149.462 \pm 375.801$   $\chi^2/\text{NDF}$ : 10.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $611.853 \pm 313.076$   $\chi^2/\text{NDF}$ : 8.4/9

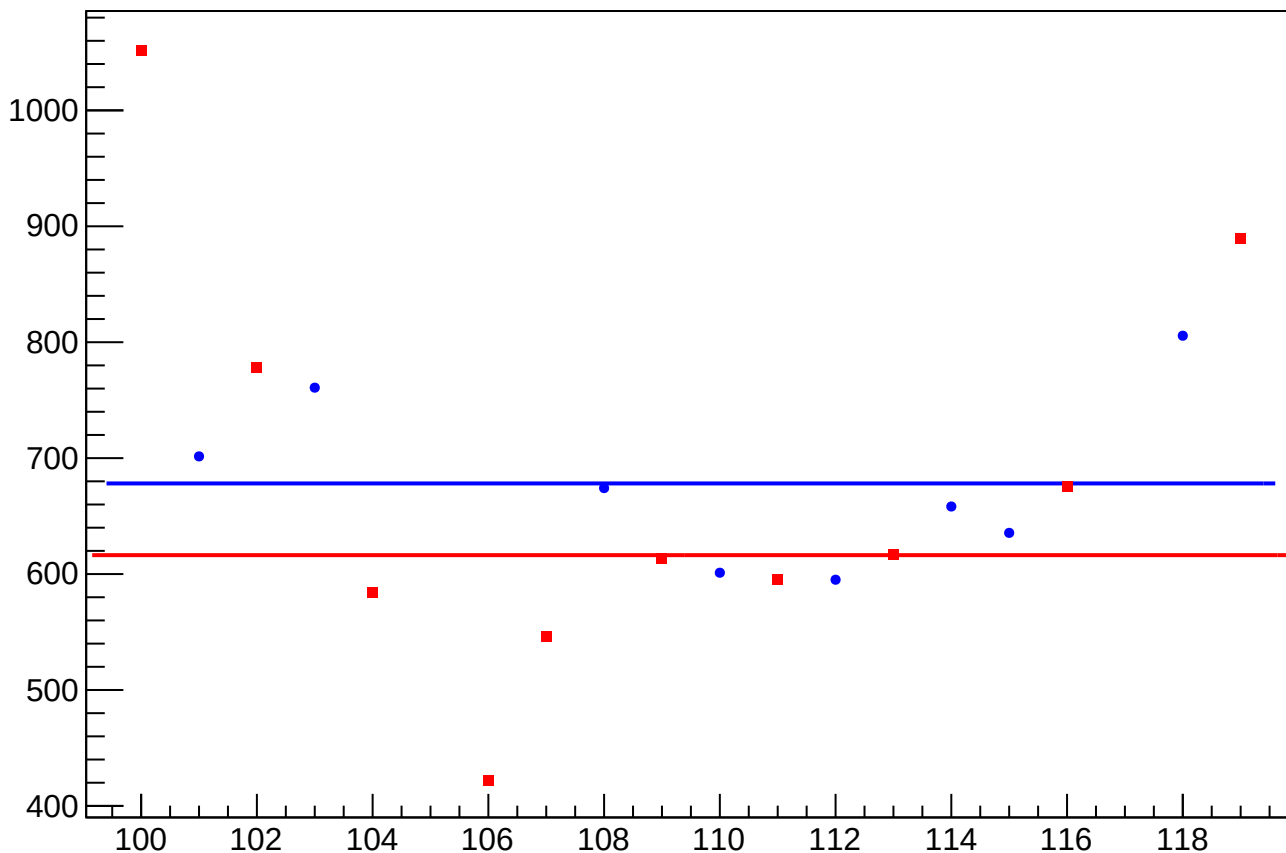
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $299.946 \pm 240.540$   $\chi^2/\text{NDF}$ : 21.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_rms vs Slug



Right In: 678.180+/-0.266  $\chi^2/\text{NDF}$ : 75358.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 616.315+/-0.221  $\chi^2/\text{NDF}$ : 328326.7/9

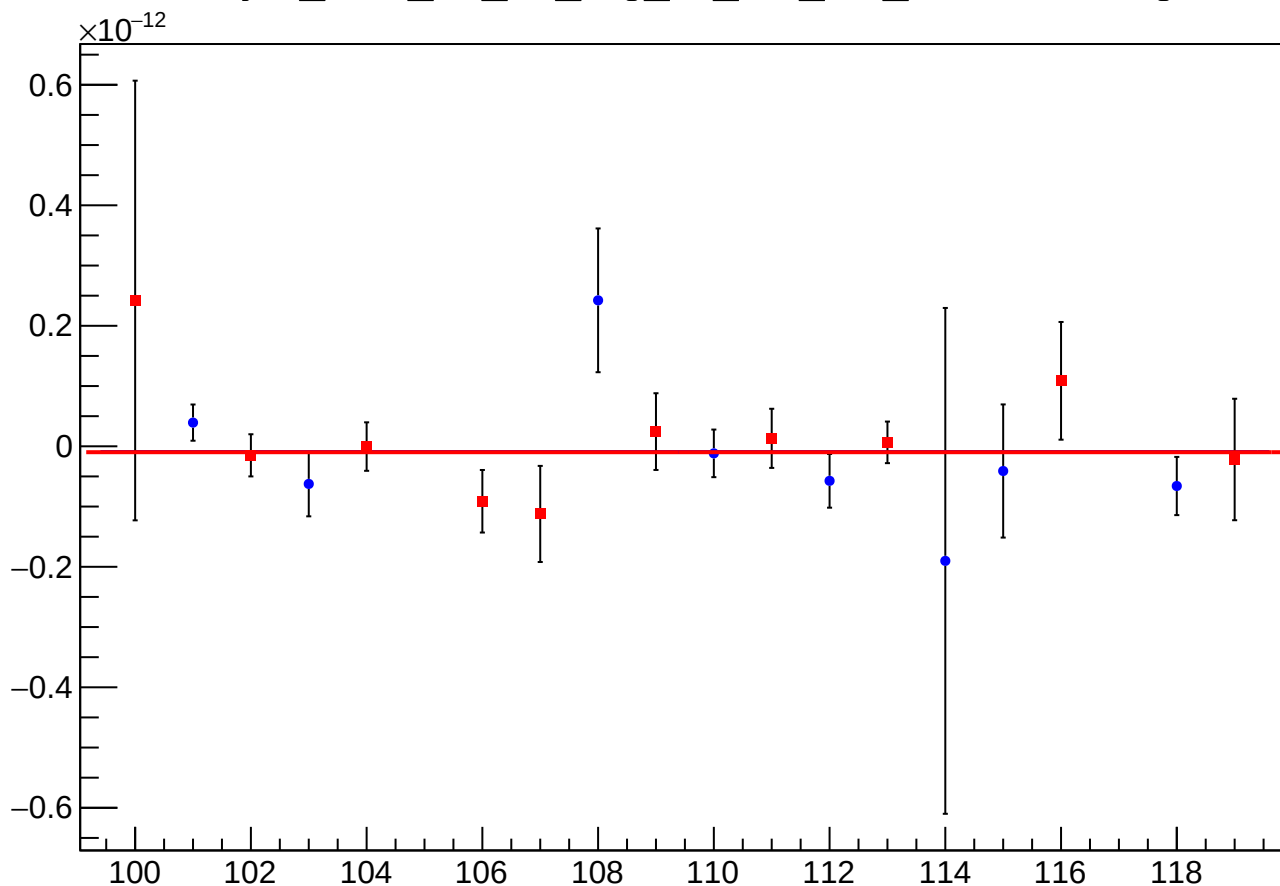
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 641.661+/-0.170  $\chi^2/\text{NDF}$ : 435680.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 10.8/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 6.9/9

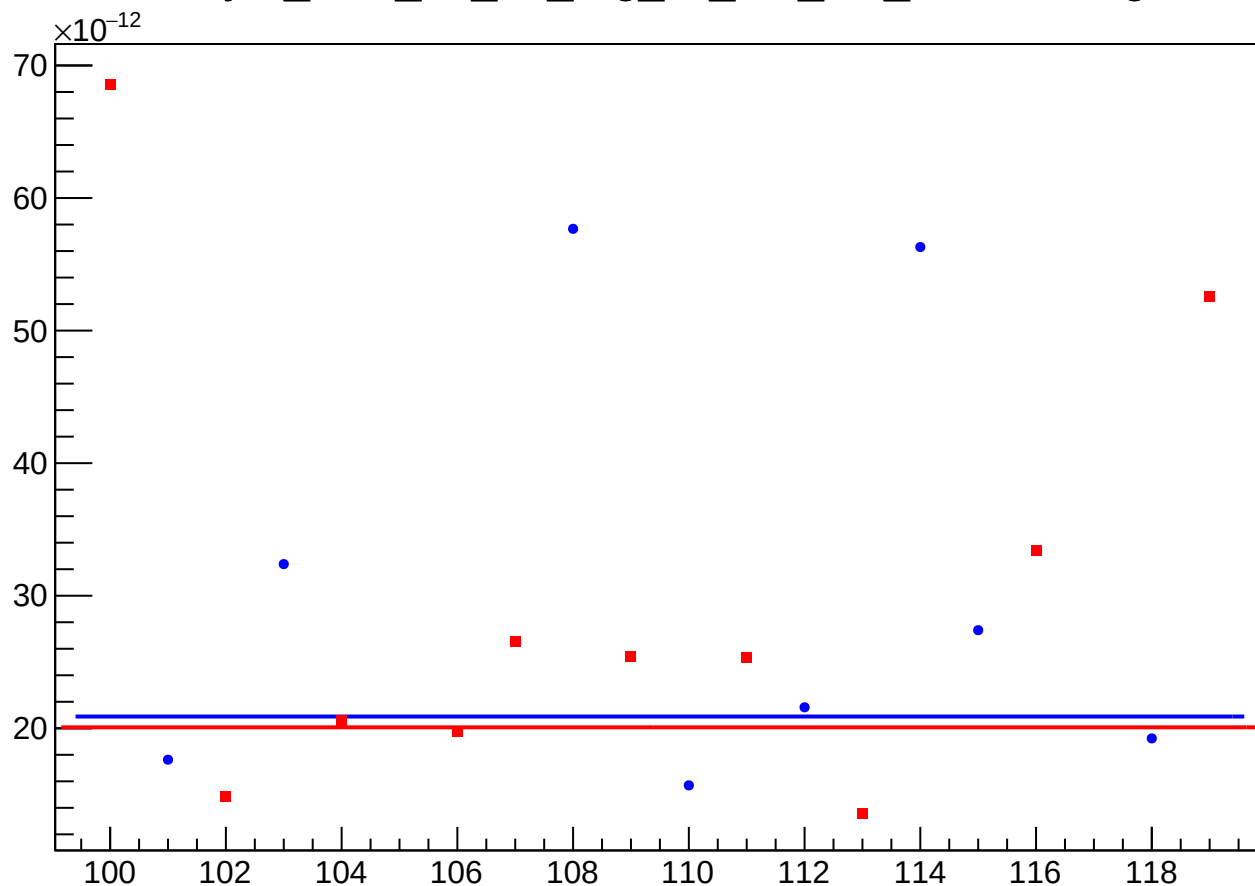
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 17.7/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 363680.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 446487.1/9

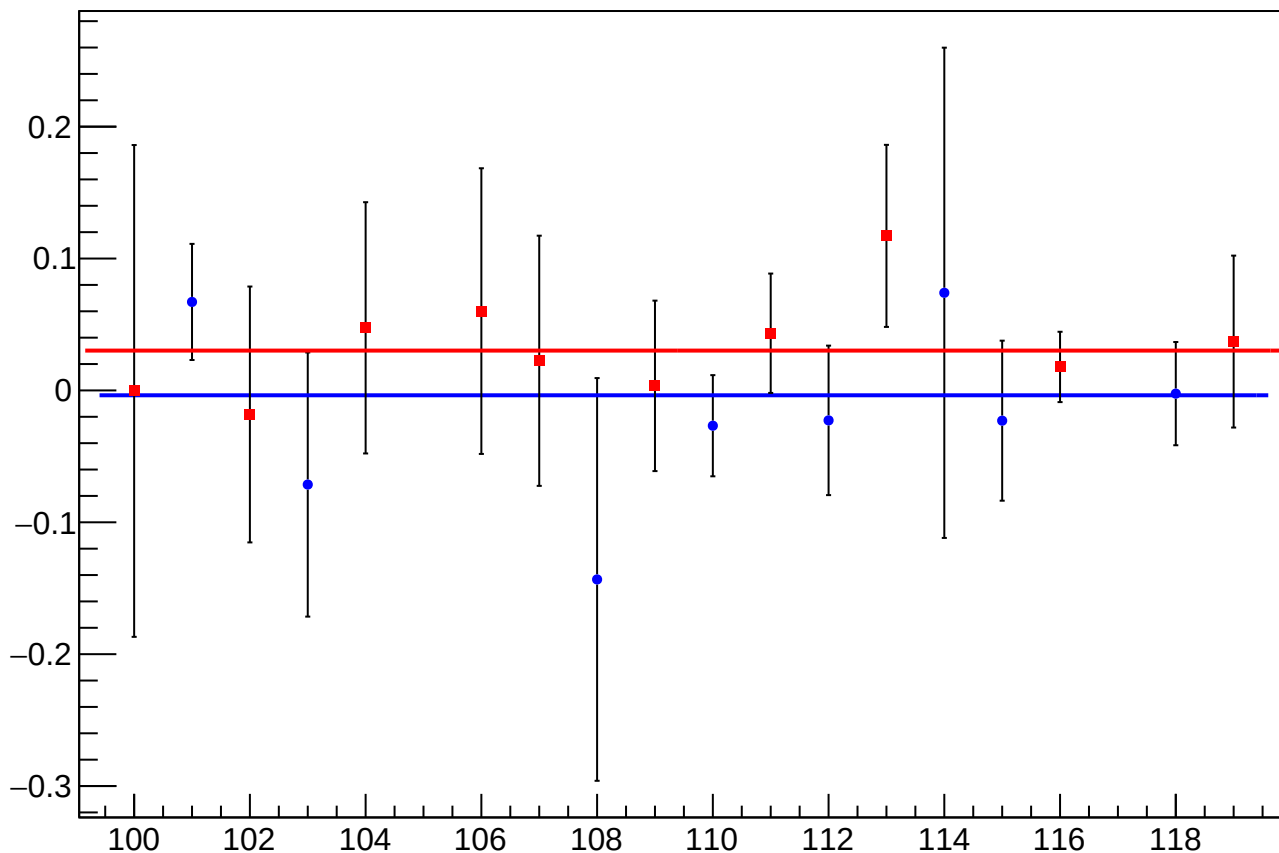
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 812433.5/17

- 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:  $-0.004 \pm 0.020$   $\chi^2/\text{NDF}$ : 4.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.030 \pm 0.018$   $\chi^2/\text{NDF}$ : 2.5/9

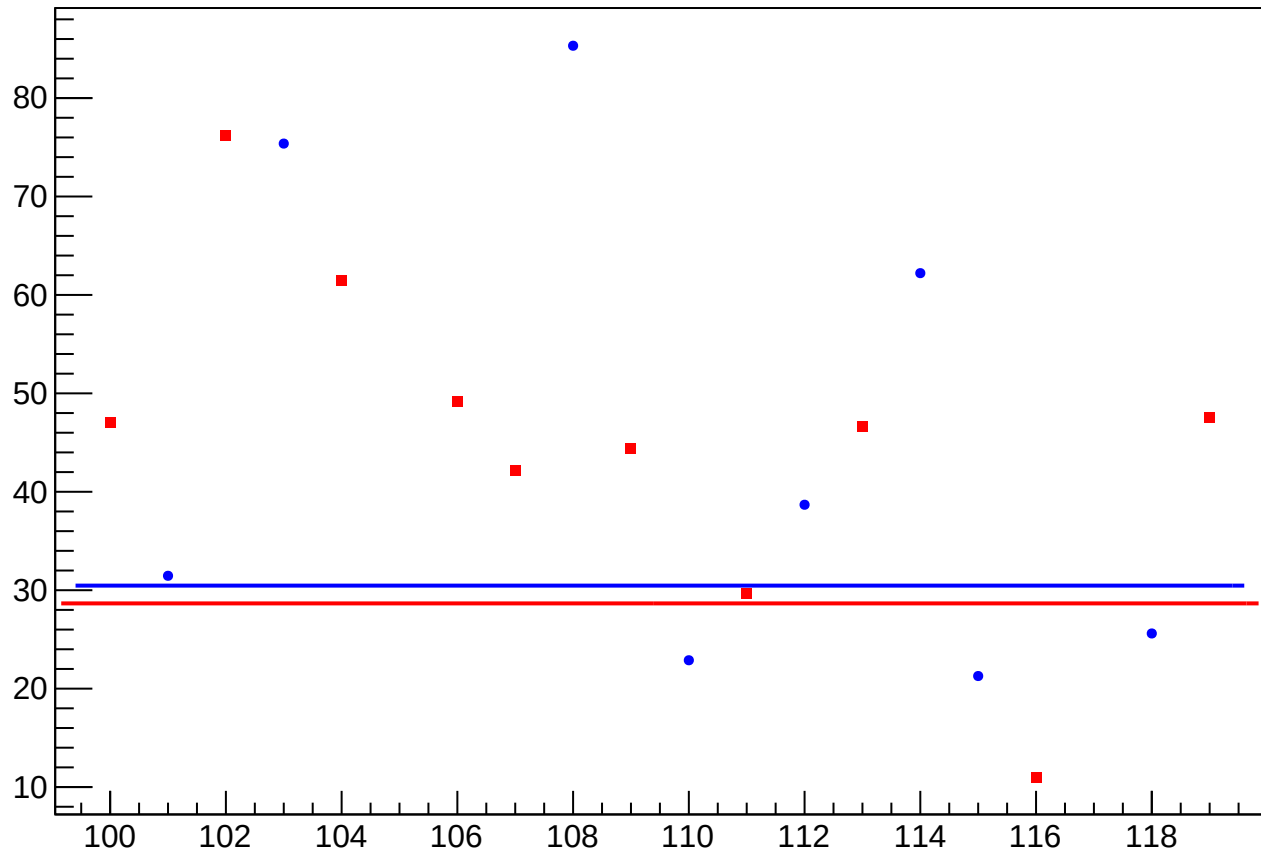
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.015 \pm 0.013$   $\chi^2/\text{NDF}$ : 8.7/17

- 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: 30.467 $\pm$ 0.014  $\chi^2$ /NDF: 916571.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 28.660 $\pm$ 0.013  $\chi^2$ /NDF: 2152872.5/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

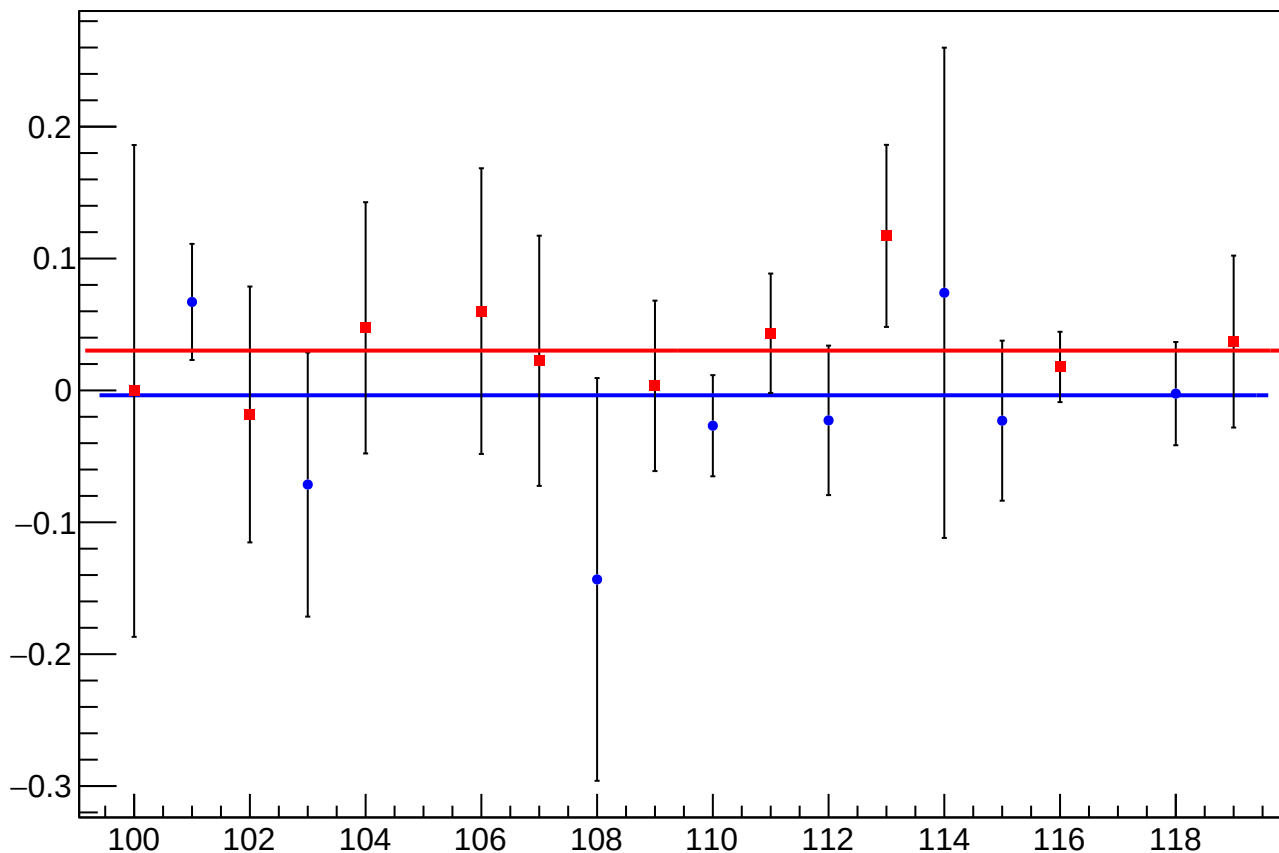
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 29.497 $\pm$ 0.009  $\chi^2$ /NDF: 3078572.5/17

- 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: -0.004 $\pm$ 0.020  $\chi^2$ /NDF: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.030 $\pm$ 0.018  $\chi^2$ /NDF: 2.5/9

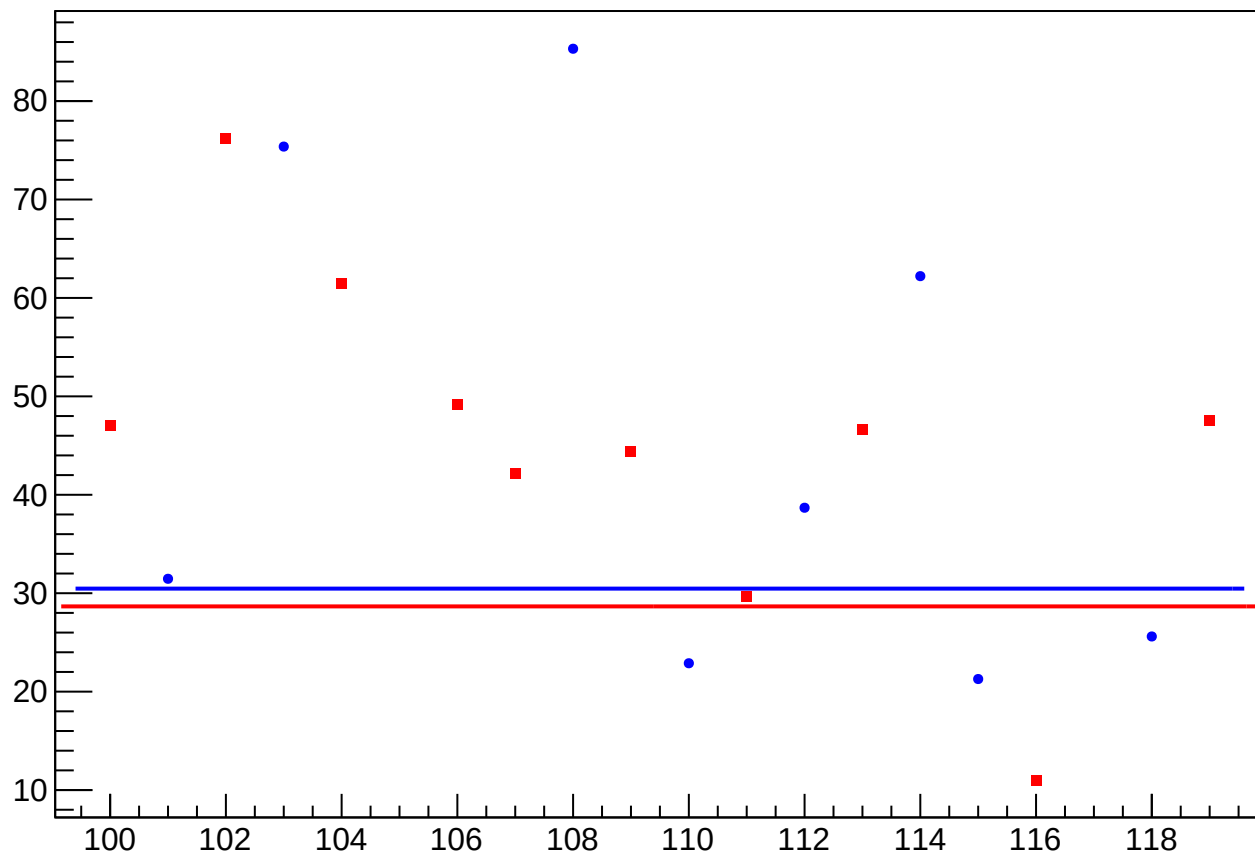
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.013  $\chi^2$ /NDF: 8.7/17

- 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: 30.467 $\pm$ 0.014  $\chi^2$ /NDF: 916571.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28.660 $\pm$ 0.013  $\chi^2$ /NDF: 2152872.5/9

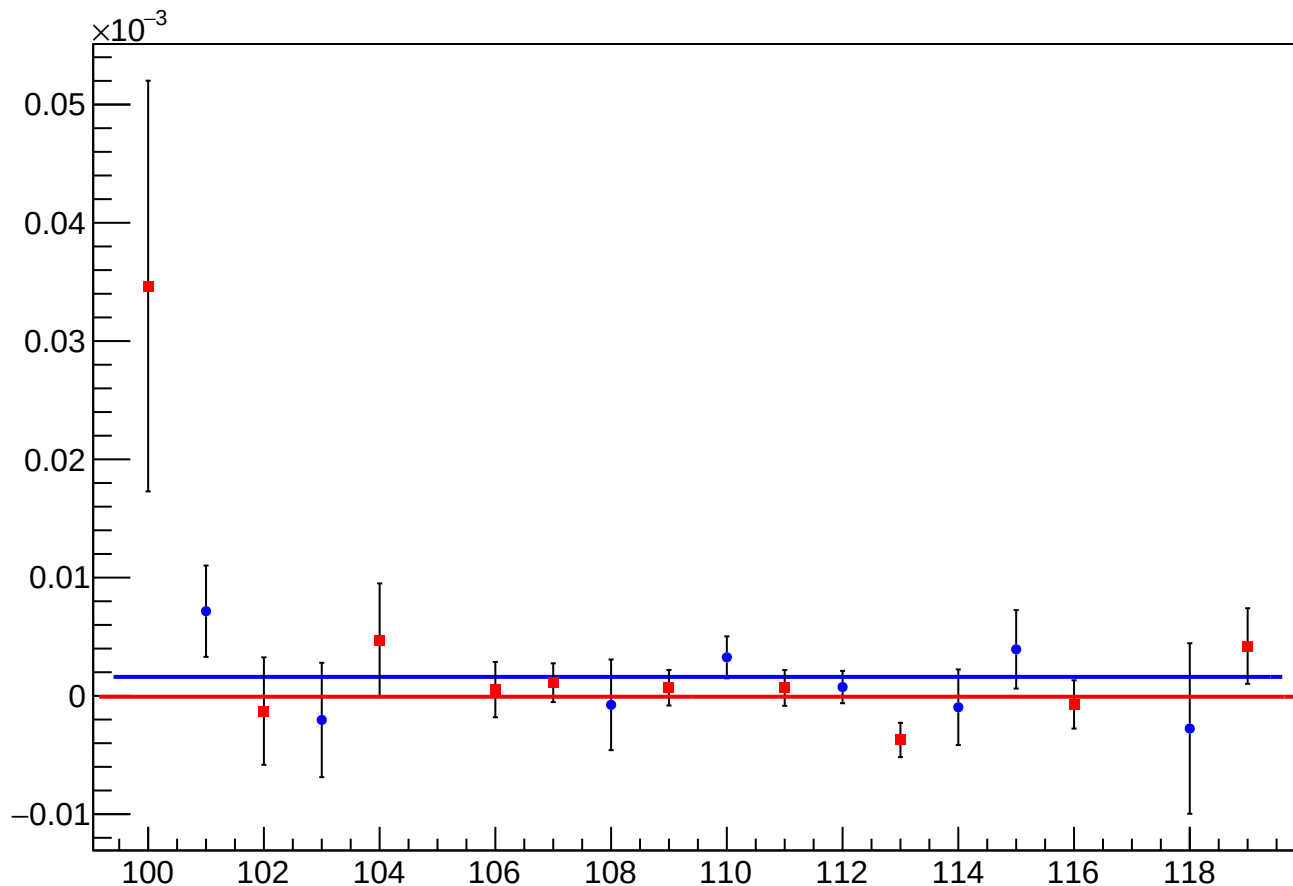
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 29.497 $\pm$ 0.009  $\chi^2$ /NDF: 3078572.5/17

- 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: 5.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.4/9

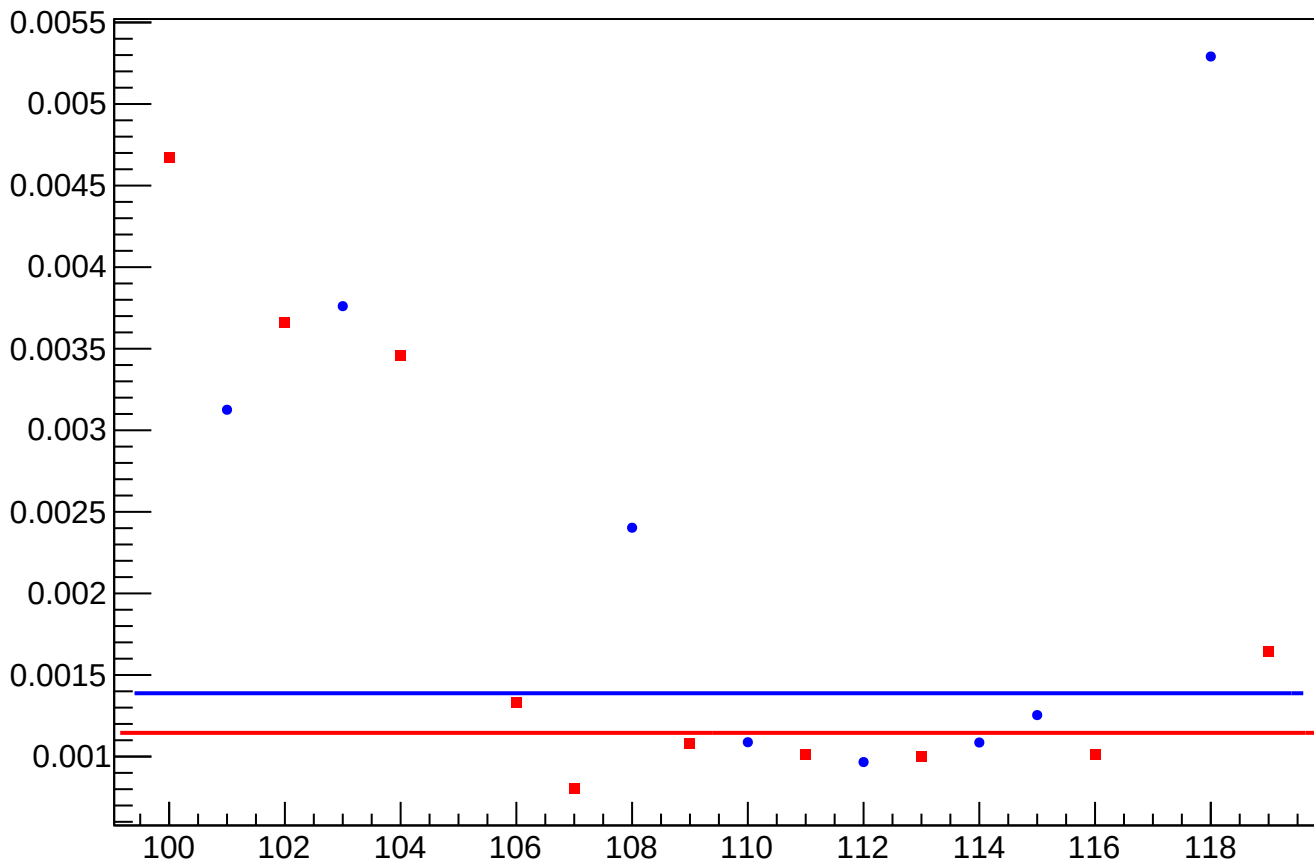
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 22.5/17

- 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  $\chi^2/\text{NDF}$ : 1881543.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1352868.8/9

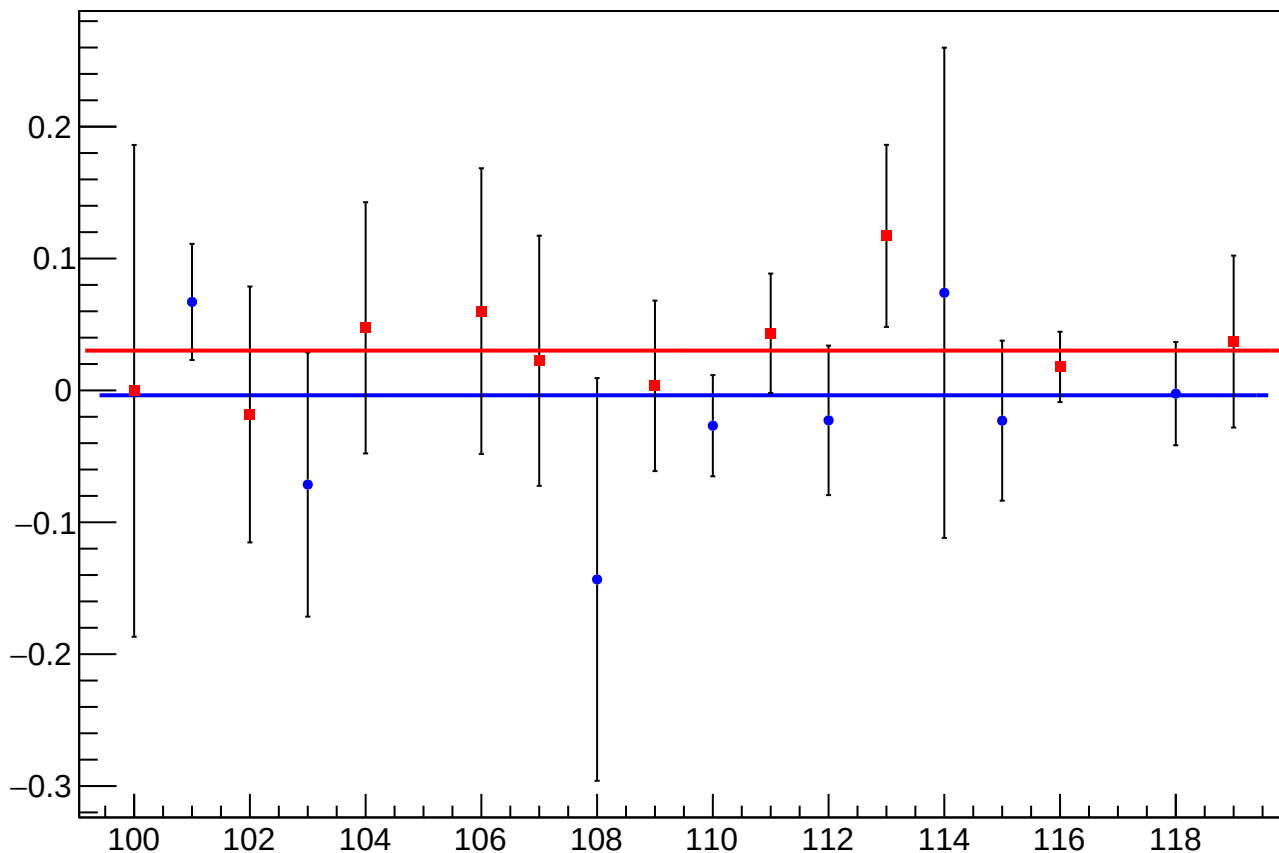
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3329876.1/17

- 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:  $-0.004 \pm 0.020$   $\chi^2/\text{NDF}$ : 4.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.030 \pm 0.018$   $\chi^2/\text{NDF}$ : 2.5/9

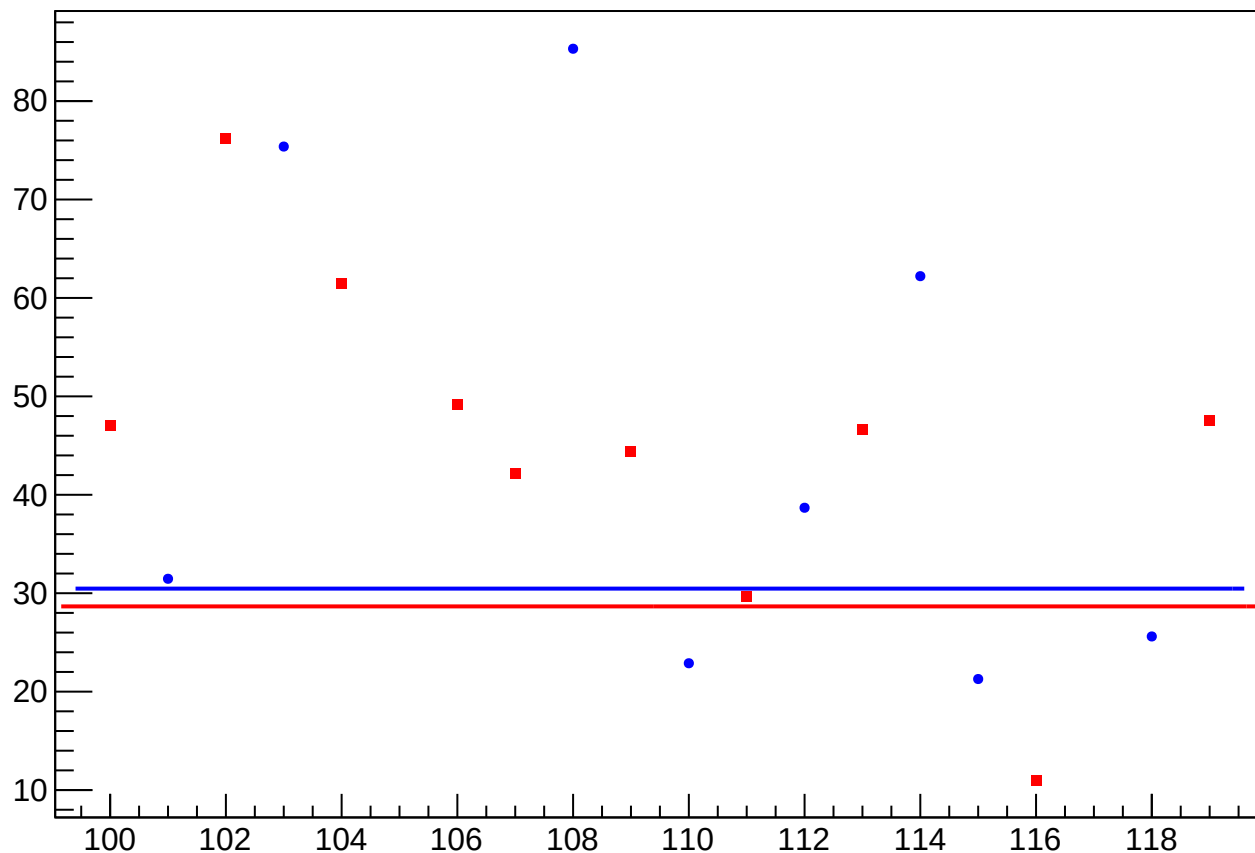
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.015 \pm 0.013$   $\chi^2/\text{NDF}$ : 8.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 30.468 $\pm$ 0.014  $\chi^2$ /NDF: 916572.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28.660 $\pm$ 0.013  $\chi^2$ /NDF: 2152793.0/9

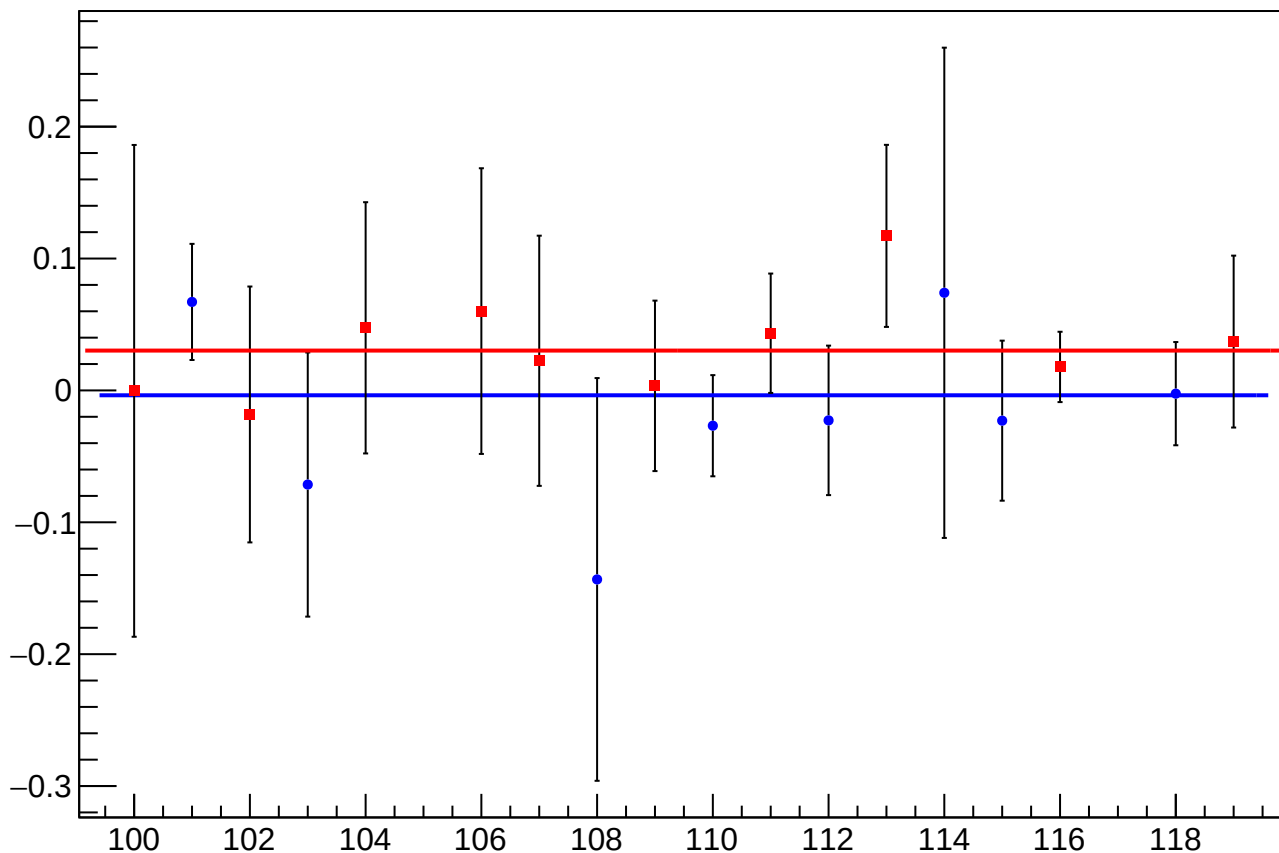
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 29.497 $\pm$ 0.009  $\chi^2$ /NDF: 3078503.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.004 $\pm$ 0.020  $\chi^2$ /NDF: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.030 $\pm$ 0.018  $\chi^2$ /NDF: 2.5/9

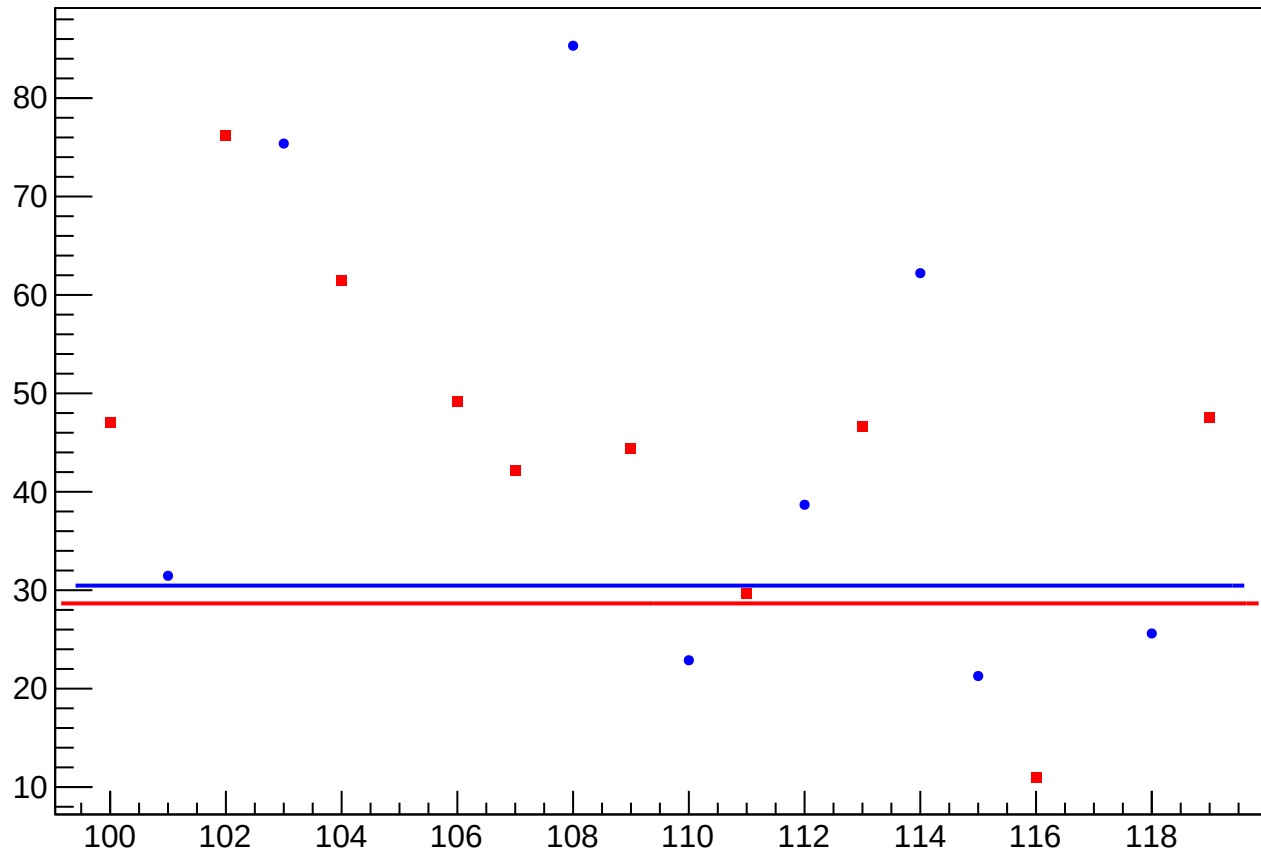
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.013  $\chi^2$ /NDF: 8.7/17

- 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: 30.468 $\pm$ 0.014  $\chi^2$ /NDF: 916572.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 28.660 $\pm$ 0.013  $\chi^2$ /NDF: 2152793.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

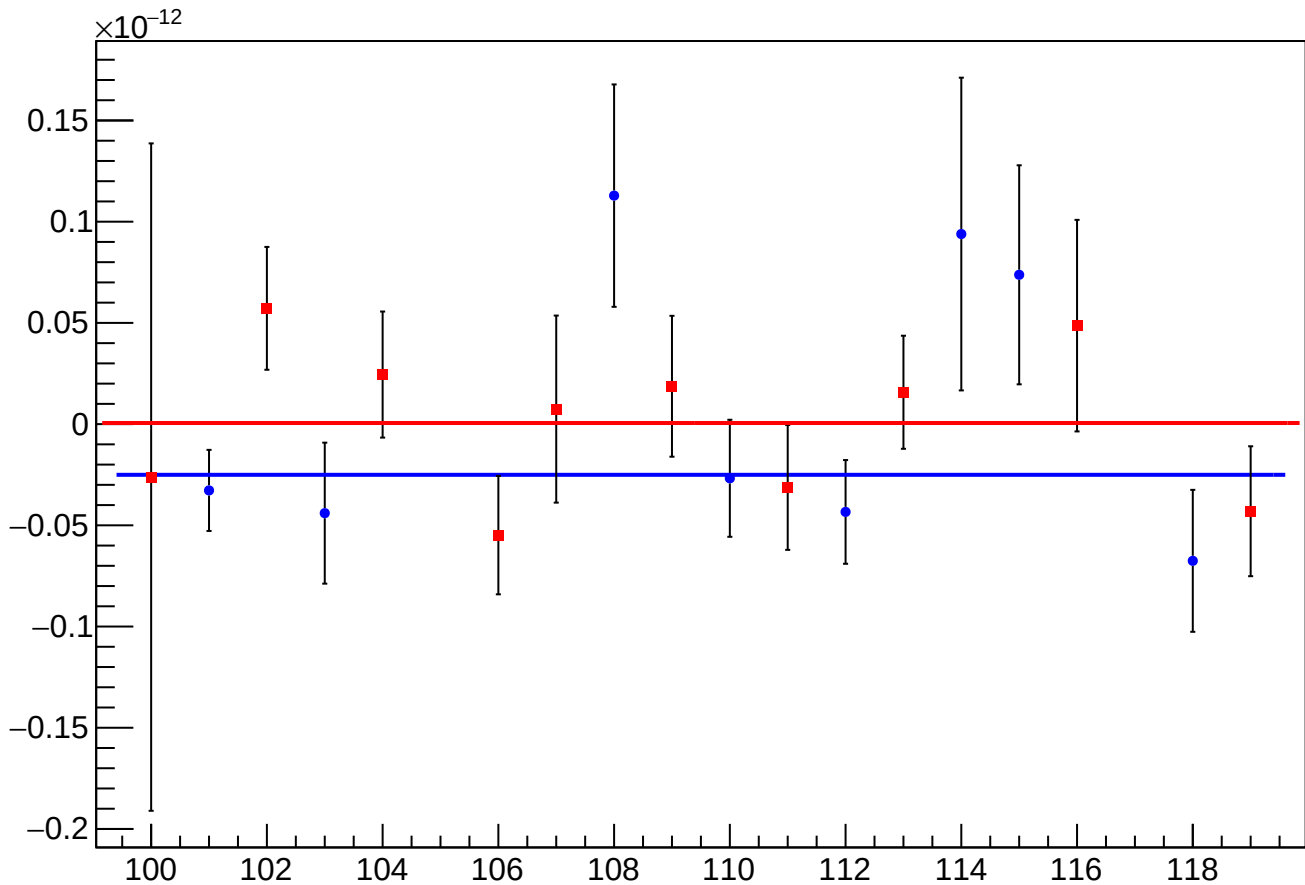
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 29.497 $\pm$ 0.009  $\chi^2$ /NDF: 3078503.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.0/9

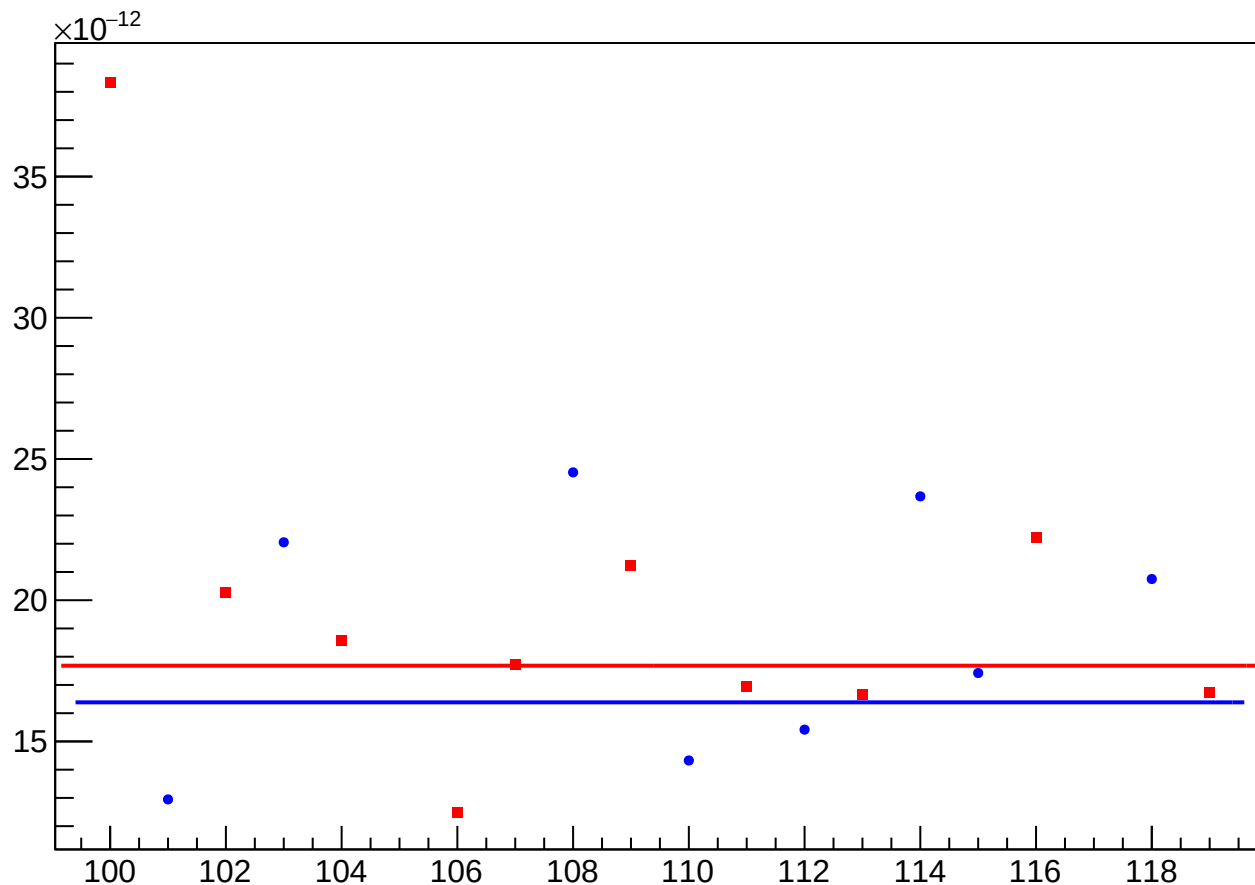
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 29.1/17

- 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  $\chi^2/\text{NDF}$ : 218325.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 152010.8/9

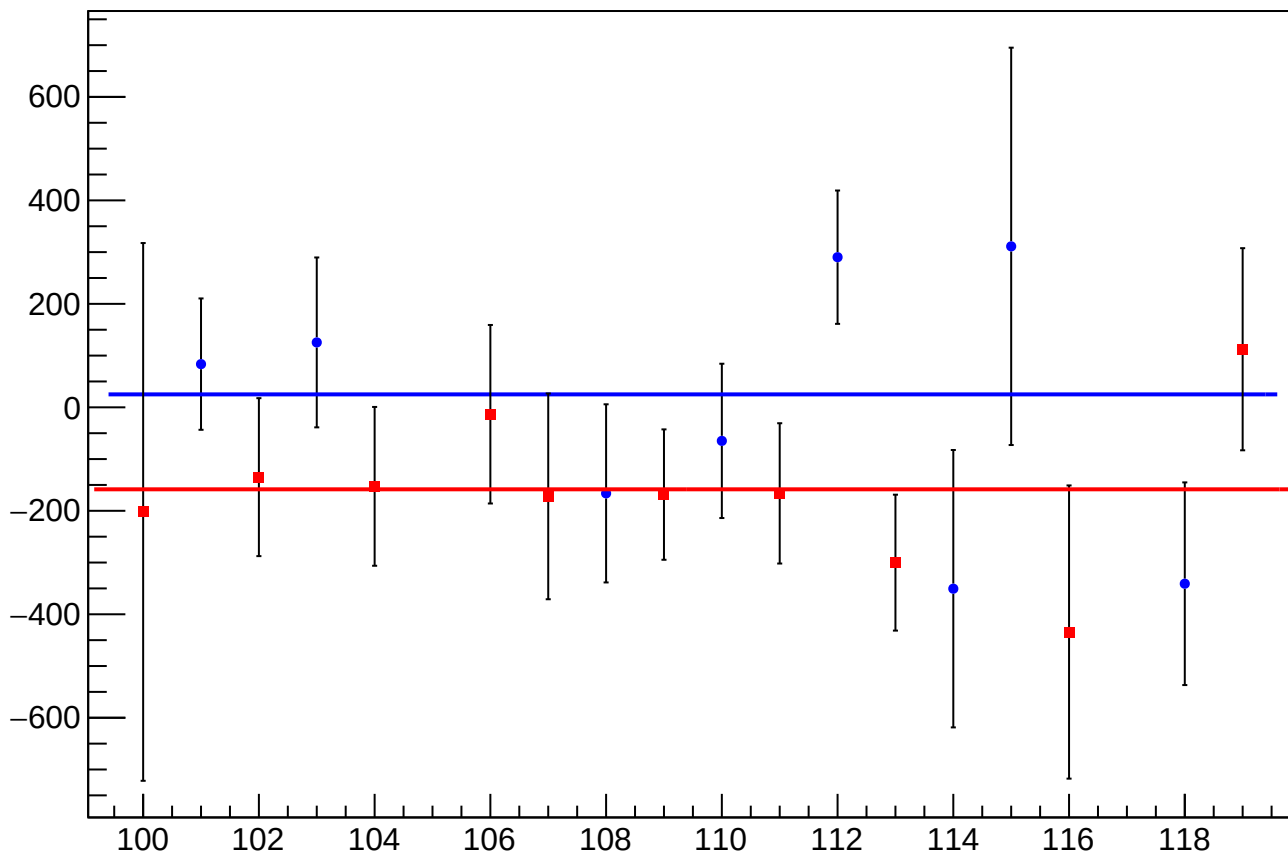
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 383764.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 25.039+/-59.252  $\chi^2/\text{NDF}$ : 12.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -158.458+/-52.562  $\chi^2/\text{NDF}$ : 4.8/9

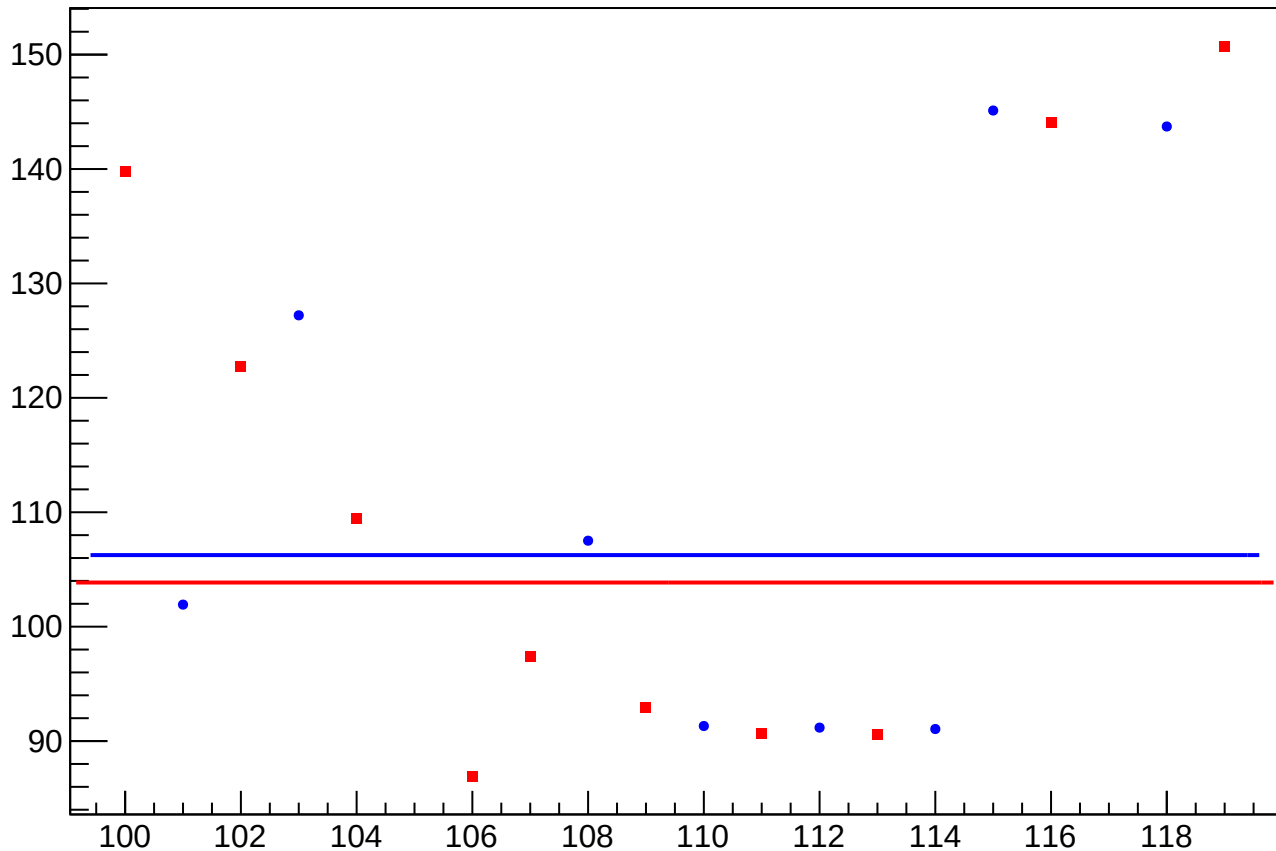
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -77.648+/-39.320  $\chi^2/\text{NDF}$ : 22.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 106.256 $\pm$ 0.042  $\chi^2$ /NDF: 182550.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.858 $\pm$ 0.037  $\chi^2$ /NDF: 274200.6/9

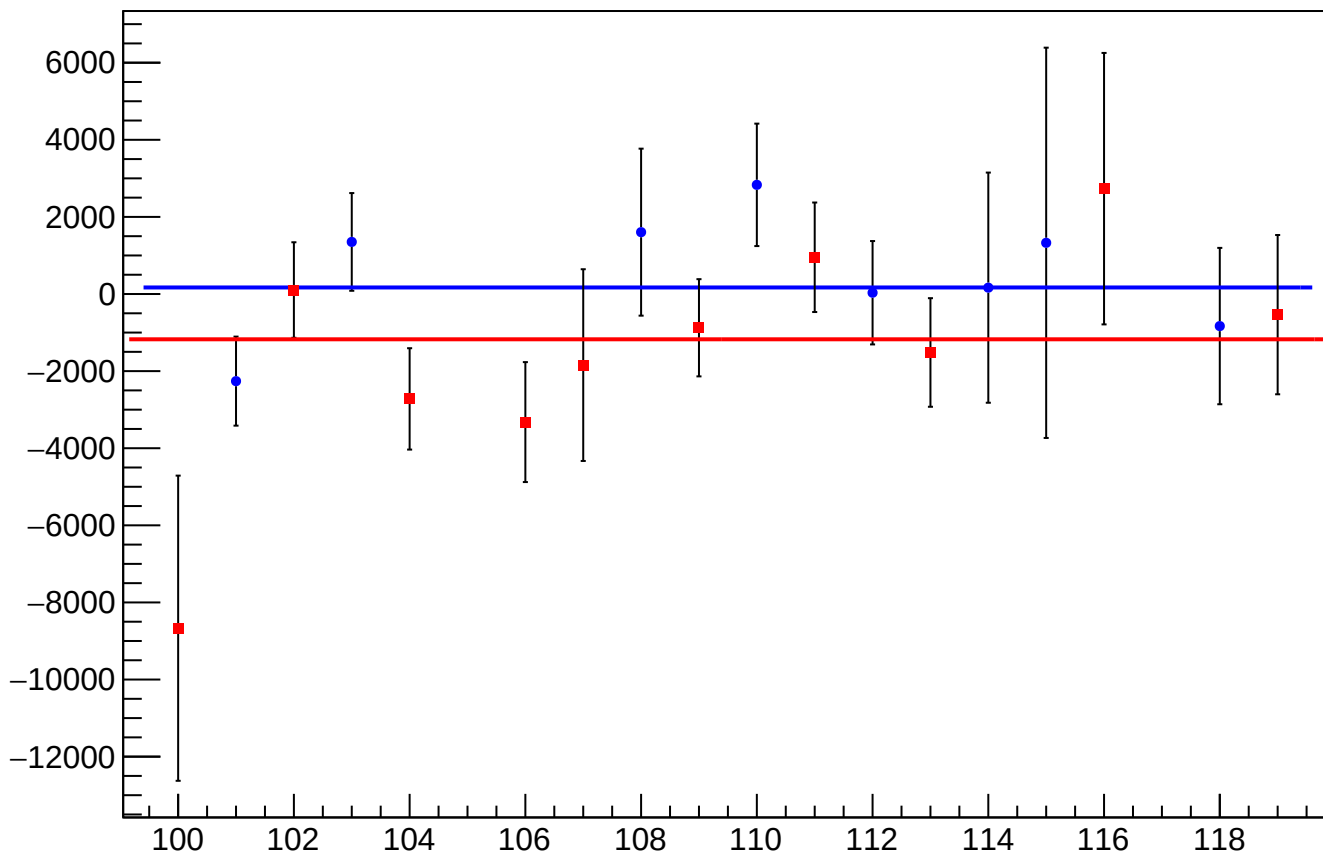
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 104.914 $\pm$ 0.028  $\chi^2$ /NDF: 458584.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_dd\_reg\_correction\_mean vs Slug



Right In: 169.885 $\pm$ 583.887  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1174.528 $\pm$ 512.114  $\chi^2$ /NDF: 11.7/9

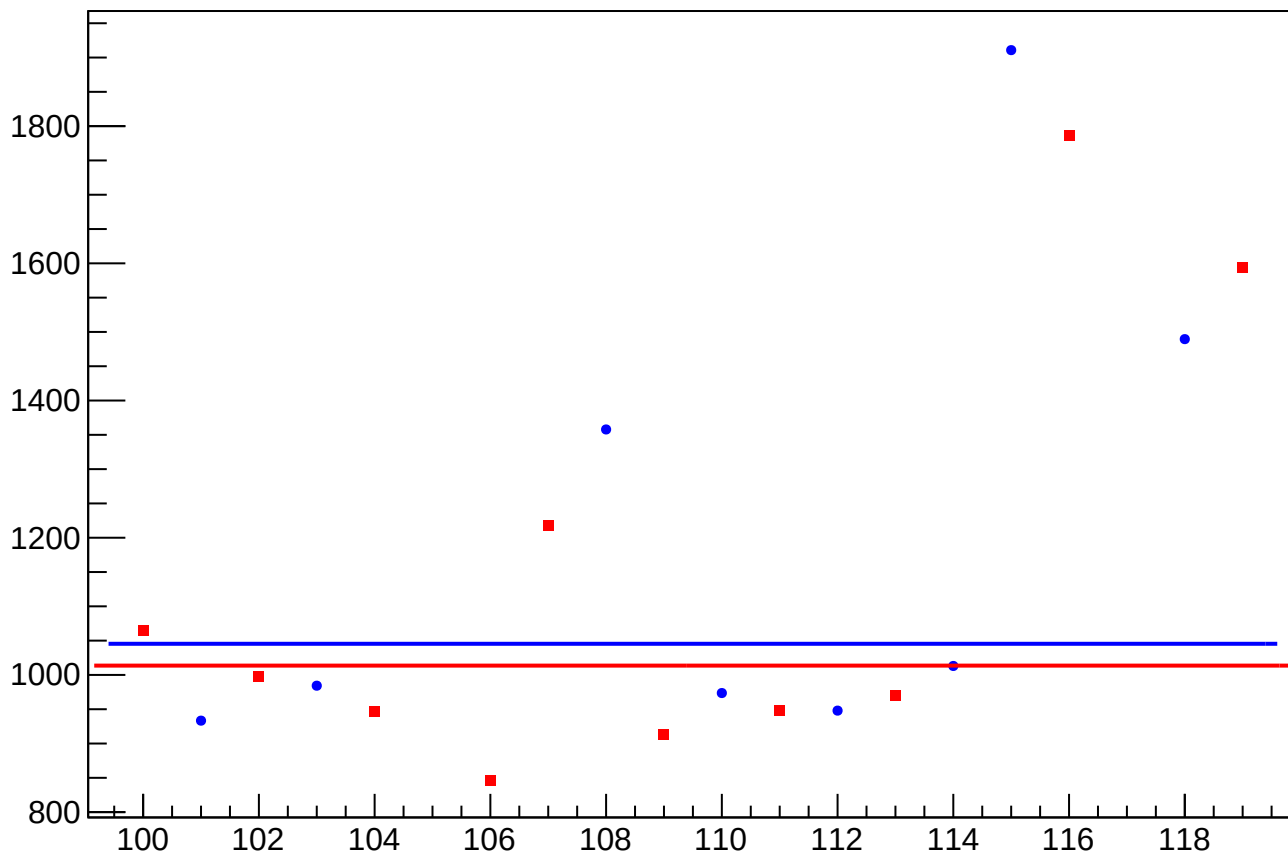
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -589.986 $\pm$ 385.008  $\chi^2$ /NDF: 23.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_dd\_reg\_correction\_rms vs Slug



Right In: 1045.394+/-0.413  $\chi^2/\text{NDF}$ : 234375.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1013.588+/-0.362  $\chi^2/\text{NDF}$ : 315128.7/9

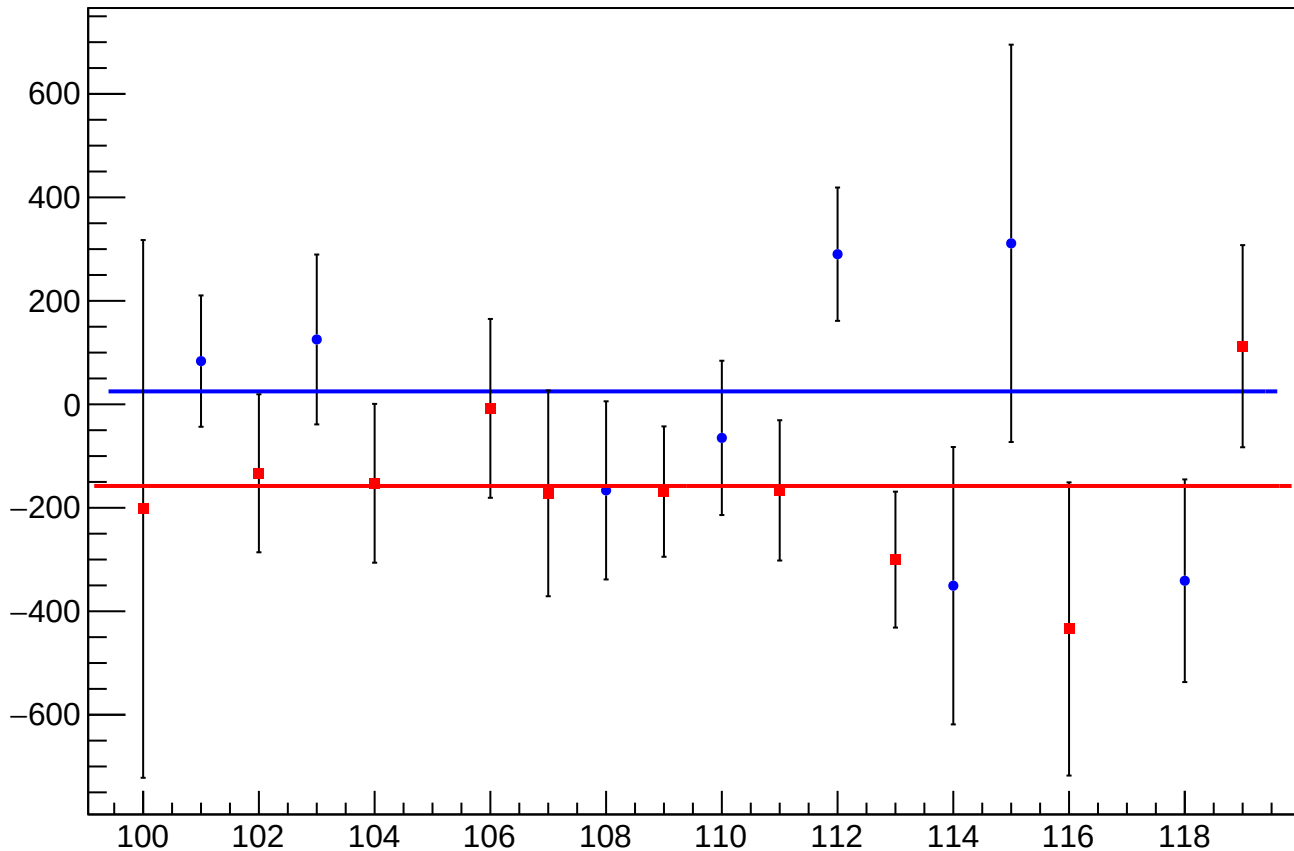
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1027.417+/-0.272  $\chi^2/\text{NDF}$ : 552858.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 25.010 $\pm$ 59.252  $\chi^2$ /NDF: 12.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -157.784 $\pm$ 52.574  $\chi^2$ /NDF: 4.8/9

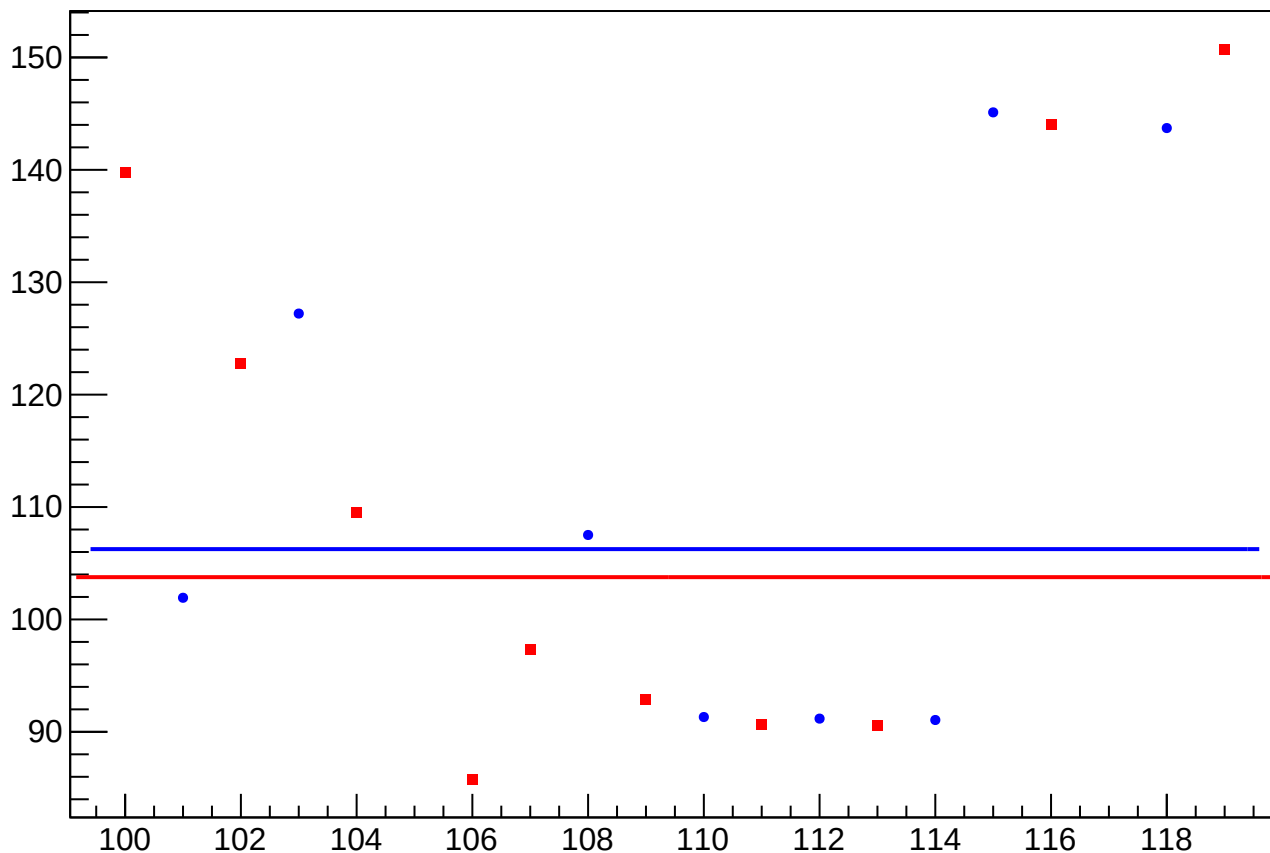
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -77.263 $\pm$ 39.325  $\chi^2$ /NDF: 22.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 106.256+/-0.042  $\chi^2/\text{NDF}$ : 182552.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 103.762+/-0.037  $\chi^2/\text{NDF}$ : 276936.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

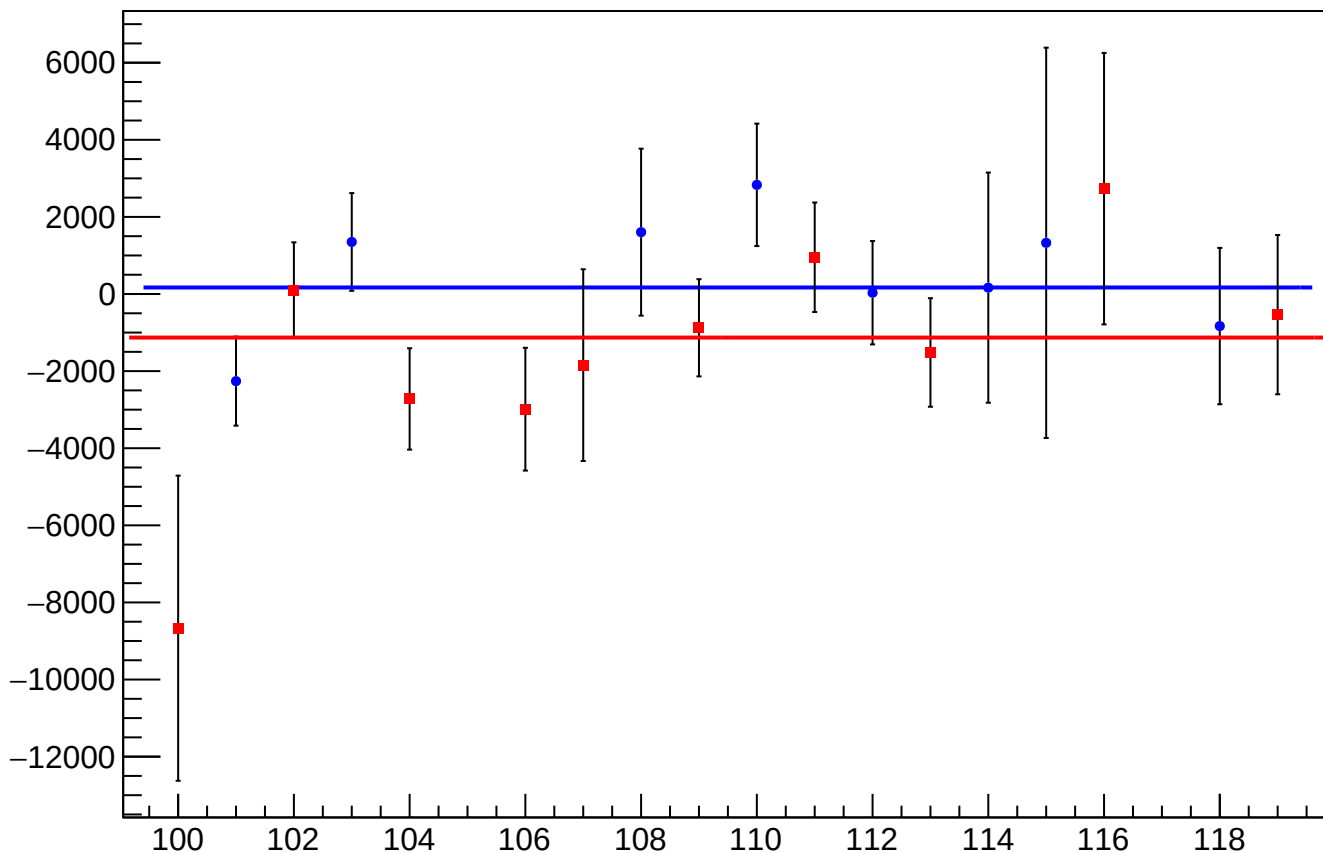
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 104.861+/-0.028  $\chi^2/\text{NDF}$ : 461471.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_48\_dd\_cor\_correction\_mean vs Slug



Right In: 169.722 $\pm$ 583.894  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1129.690 $\pm$ 513.420  $\chi^2$ /NDF: 11.1/9

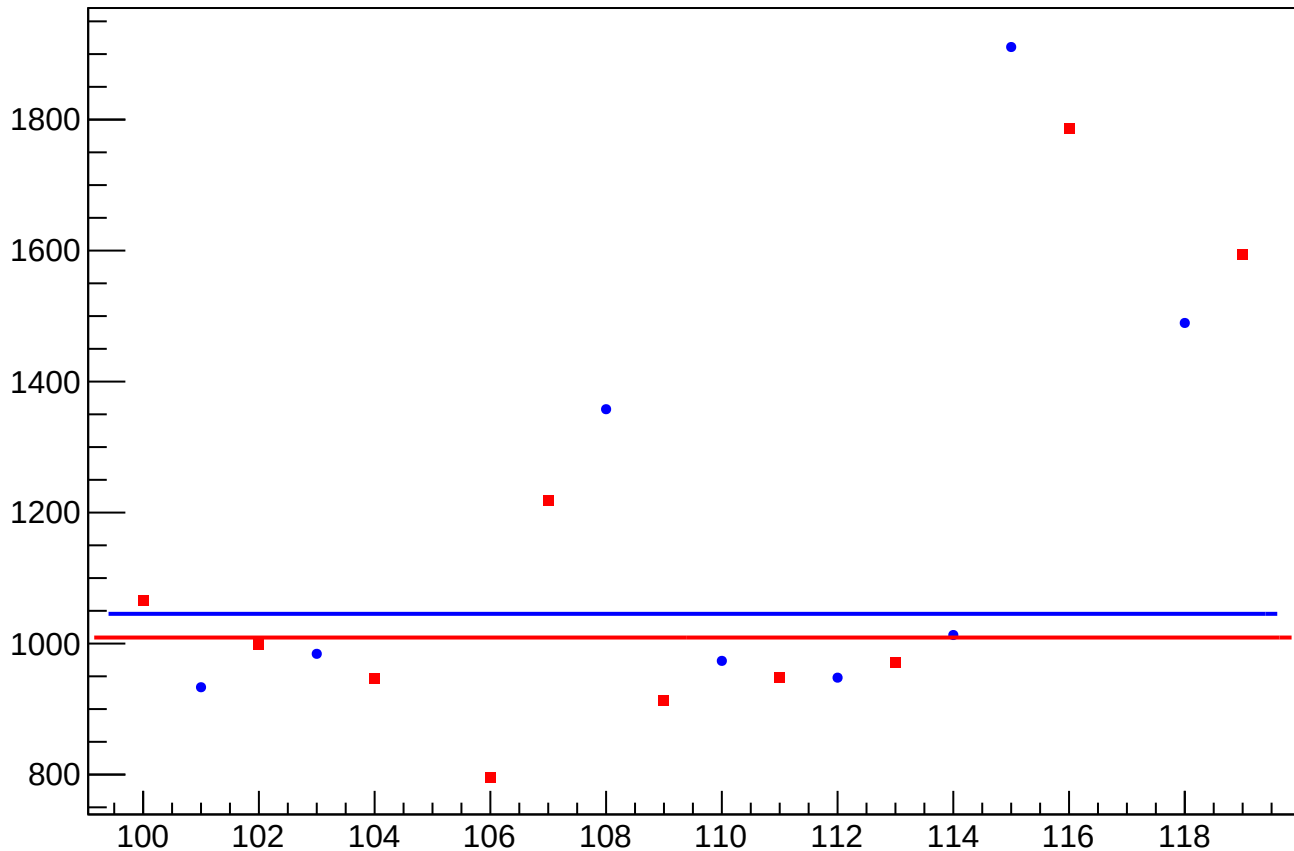
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -563.095 $\pm$ 385.565  $\chi^2$ /NDF: 22.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_dd\_cor\_correction\_rms vs Slug



Right In: 1045.408 $\pm$ 0.413  $\chi^2$ /NDF: 234365.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1009.225 $\pm$ 0.363  $\chi^2$ /NDF: 329232.1/9

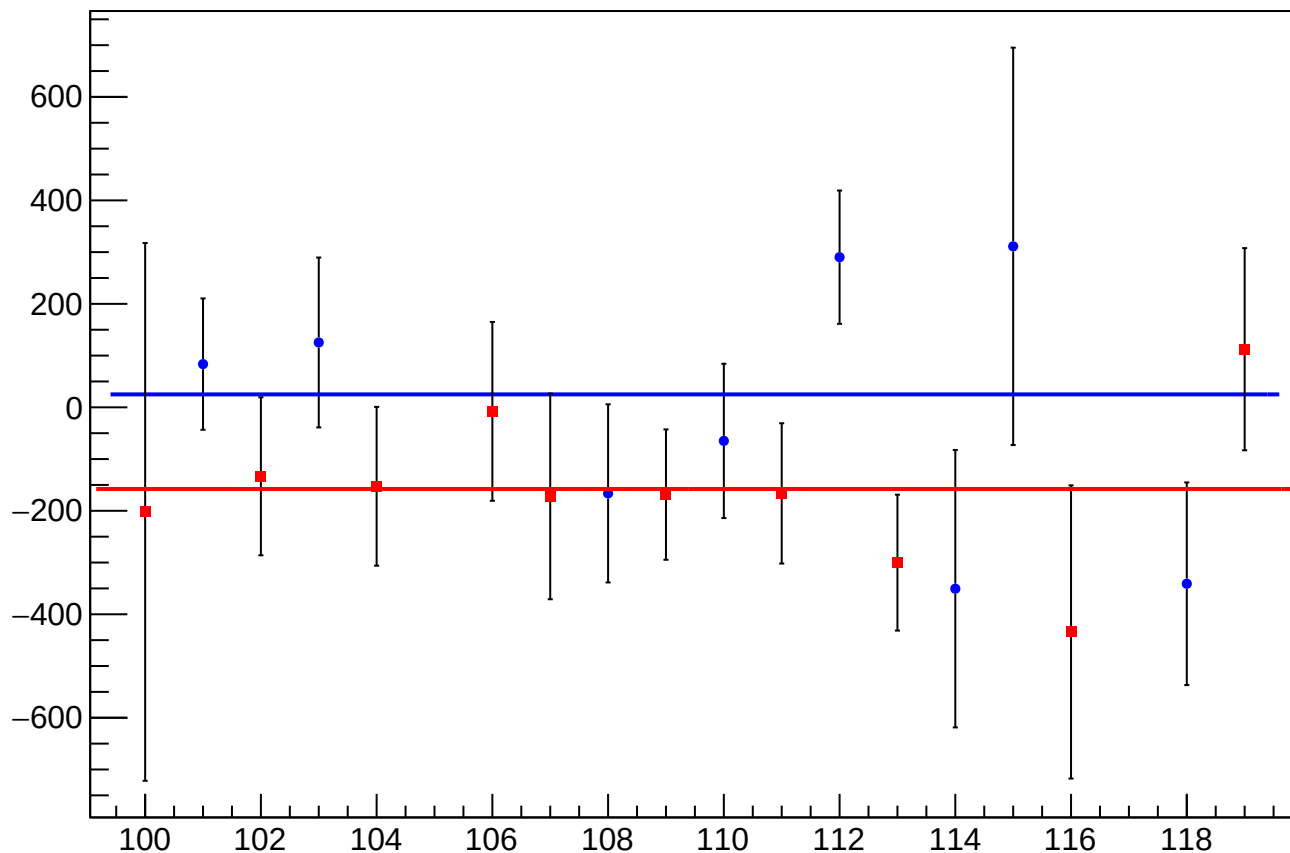
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1025.002 $\pm$ 0.273  $\chi^2$ /NDF: 567928.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 25.010 $\pm$ 59.252  $\chi^2$ /NDF: 12.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -157.784 $\pm$ 52.574  $\chi^2$ /NDF: 4.8/9

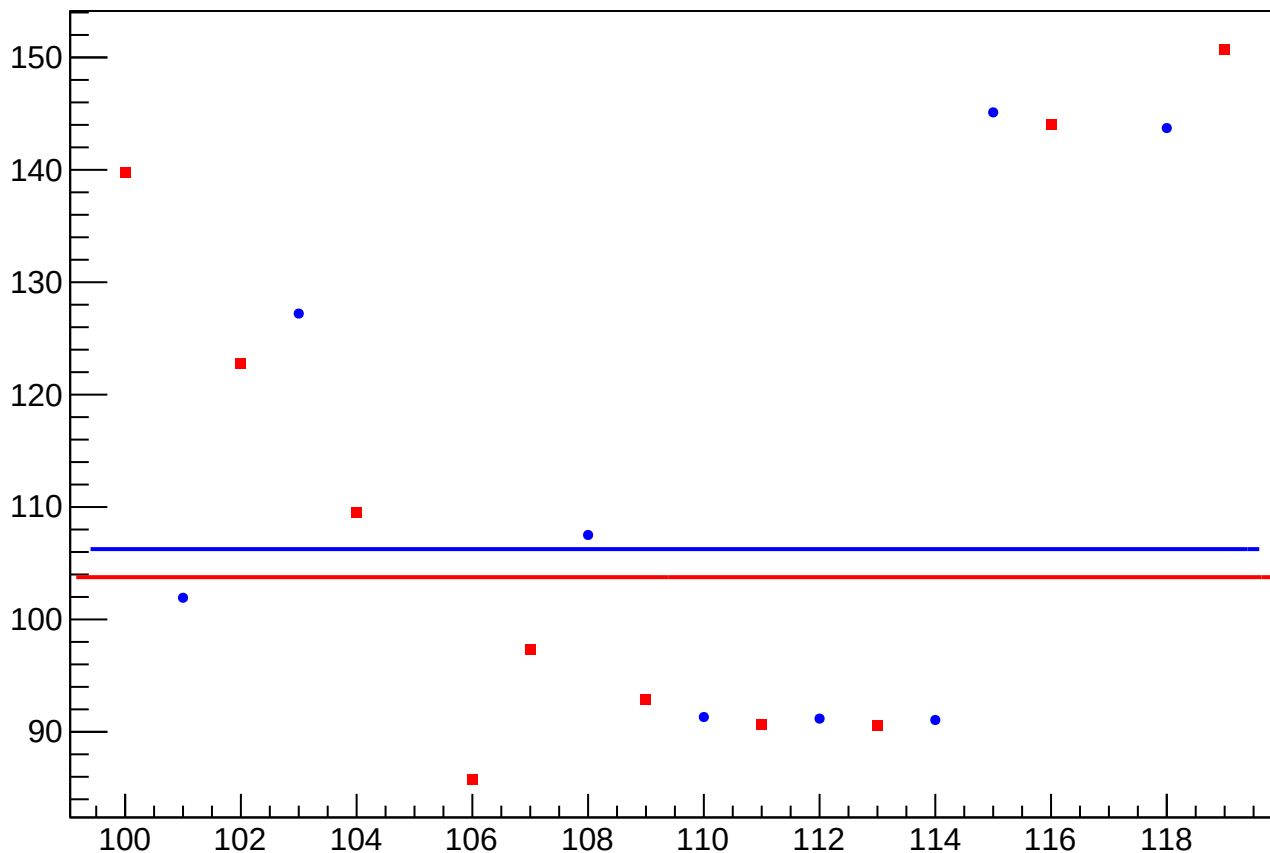
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -77.263 $\pm$ 39.325  $\chi^2$ /NDF: 22.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 106.256 $\pm$ 0.042  $\chi^2$ /NDF: 182552.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.762 $\pm$ 0.037  $\chi^2$ /NDF: 276936.1/9

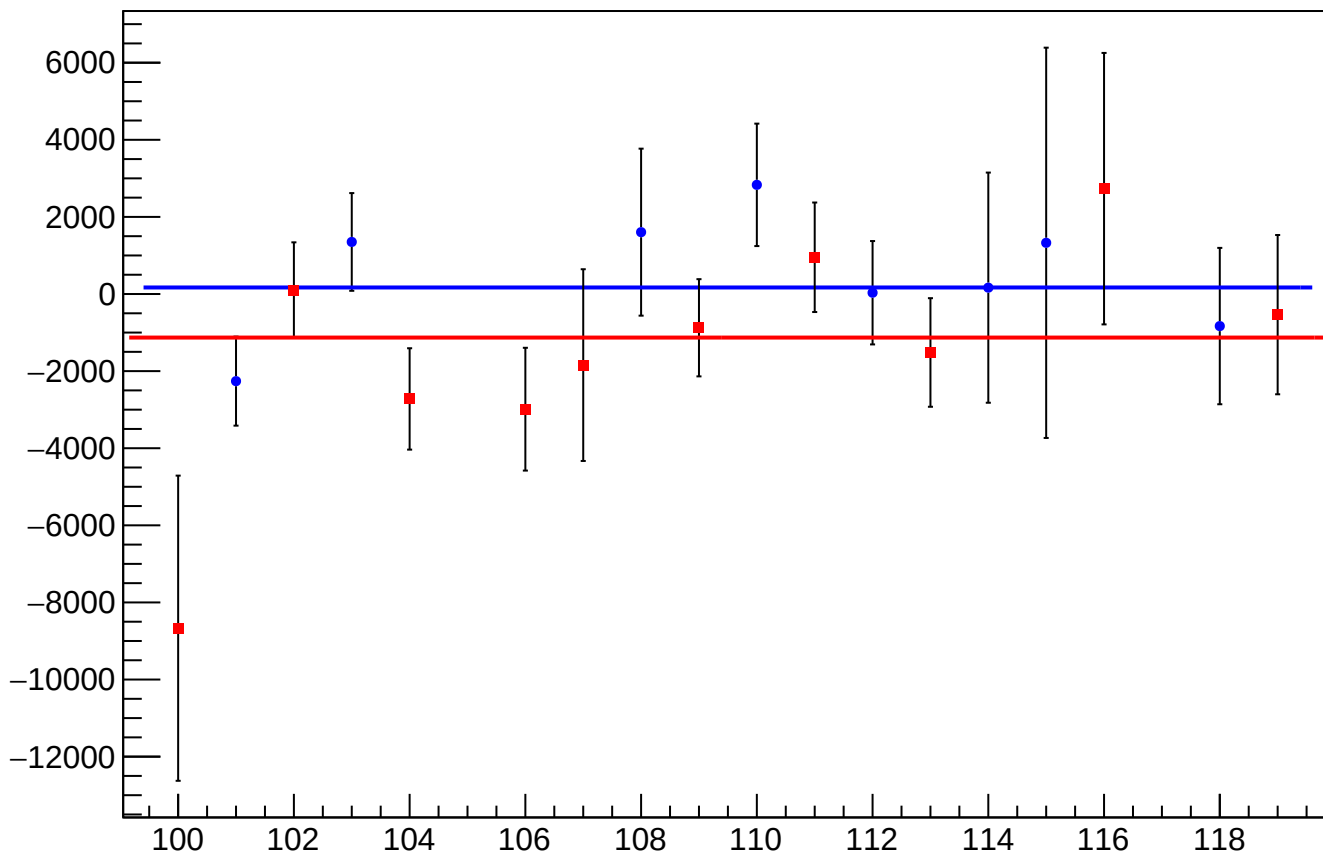
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 104.861 $\pm$ 0.028  $\chi^2$ /NDF: 461471.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 169.722 $\pm$ 583.894  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1129.690 $\pm$ 513.420  $\chi^2$ /NDF: 11.1/9

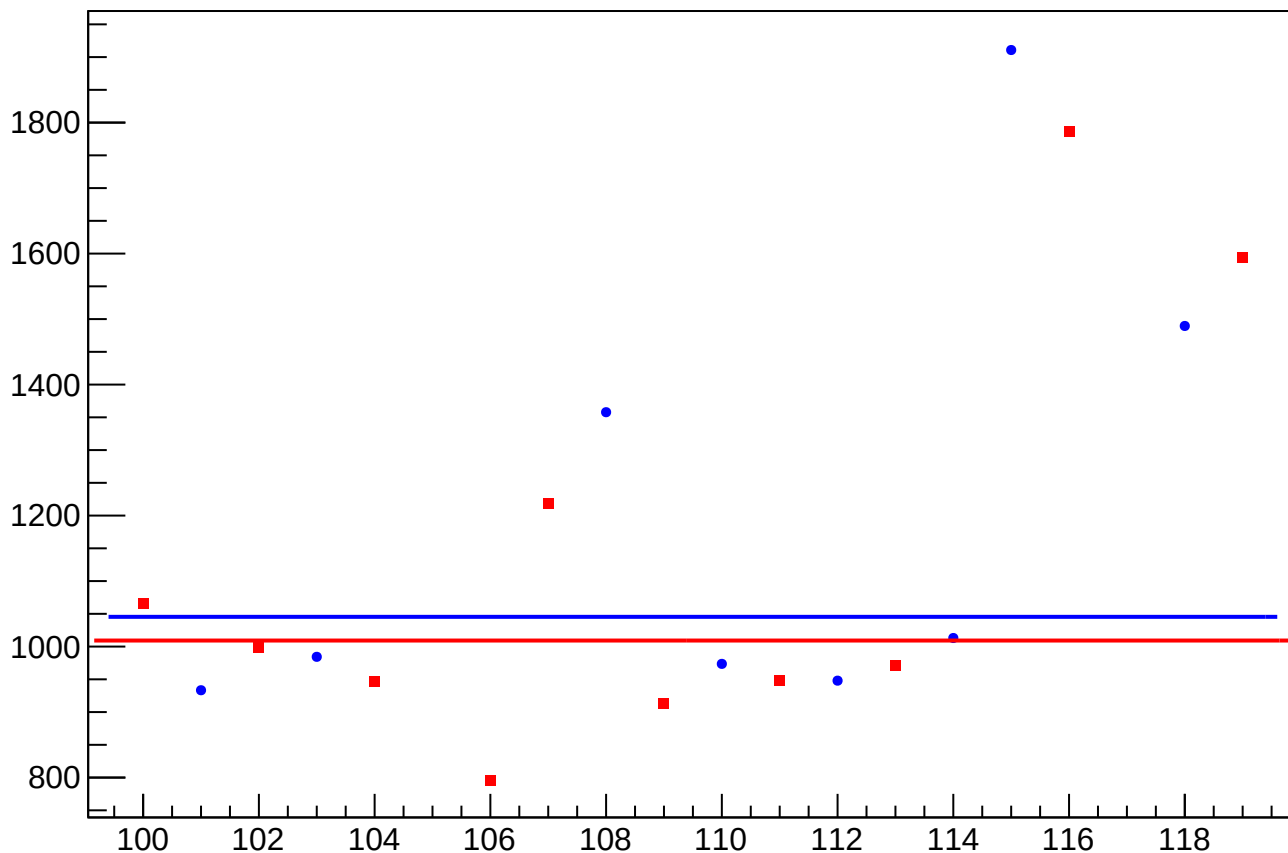
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -563.095 $\pm$ 385.565  $\chi^2$ /NDF: 22.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1045.408 $\pm$ 0.413  $\chi^2$ /NDF: 234365.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1009.225 $\pm$ 0.363  $\chi^2$ /NDF: 329232.1/9

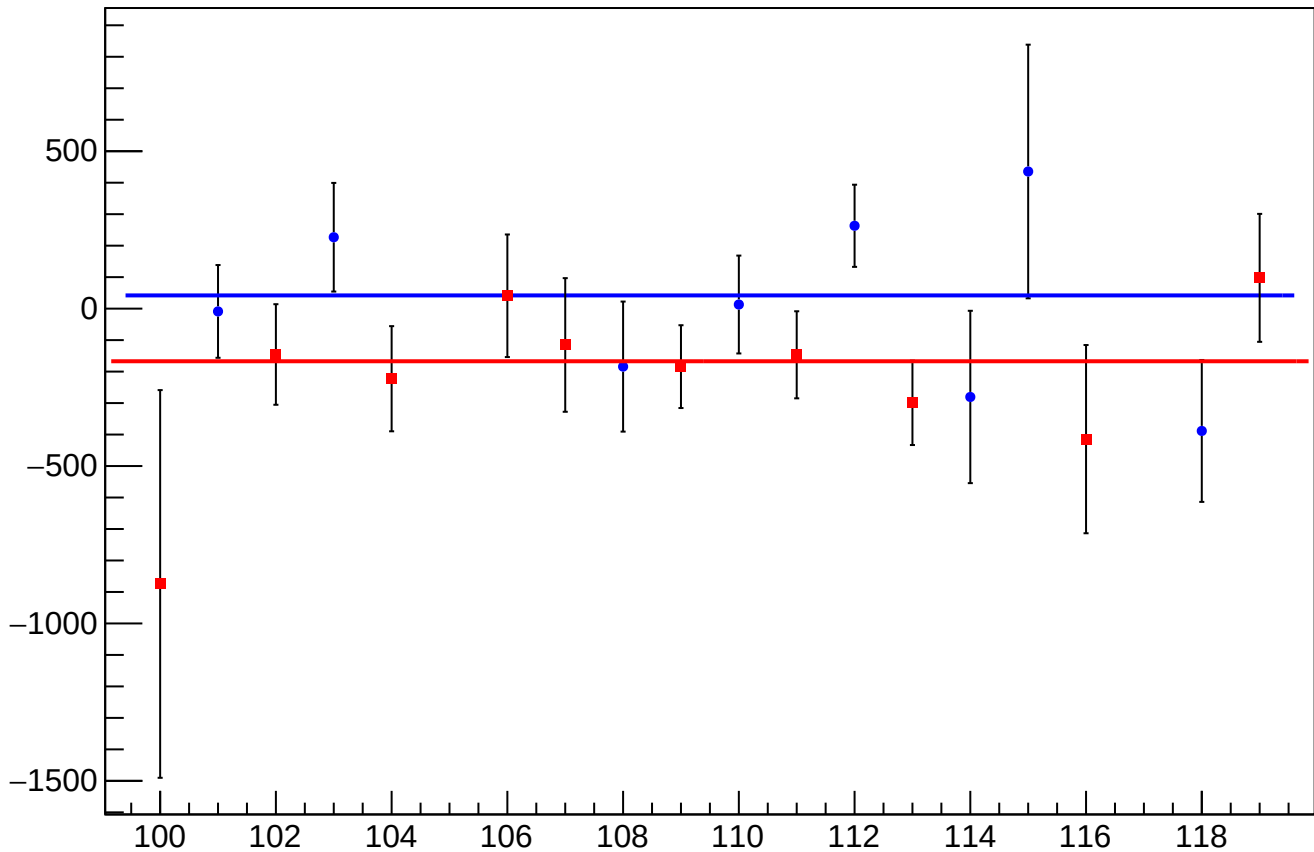
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1025.002 $\pm$ 0.273  $\chi^2$ /NDF: 567928.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 41.970 $\pm$ 64.225  $\chi^2$ /NDF: 11.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -167.174 $\pm$ 55.260  $\chi^2$ /NDF: 6.0/9

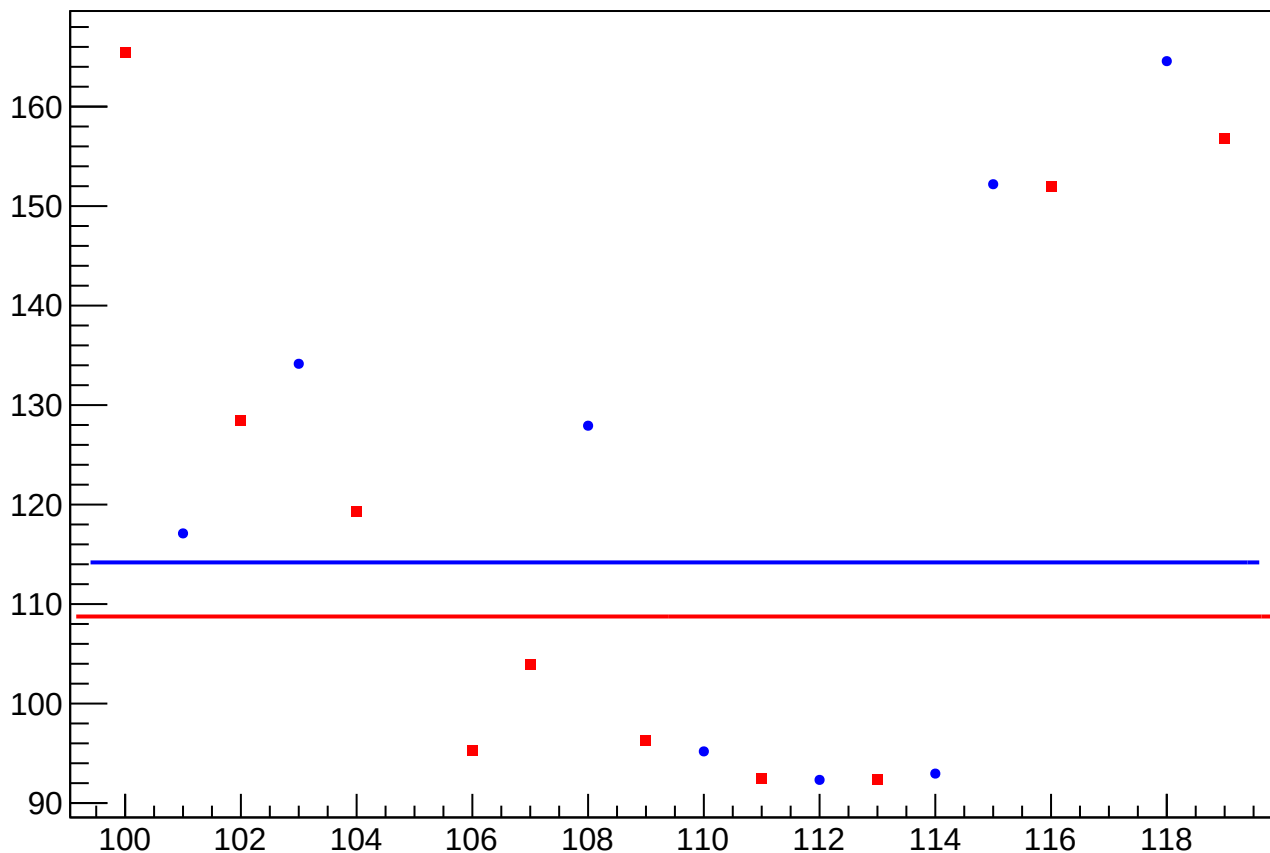
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -78.206 $\pm$ 41.889  $\chi^2$ /NDF: 23.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 114.187 $\pm$ 0.045  $\chi^2$ /NDF: 252179.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 108.751 $\pm$ 0.039  $\chi^2$ /NDF: 295241.7/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

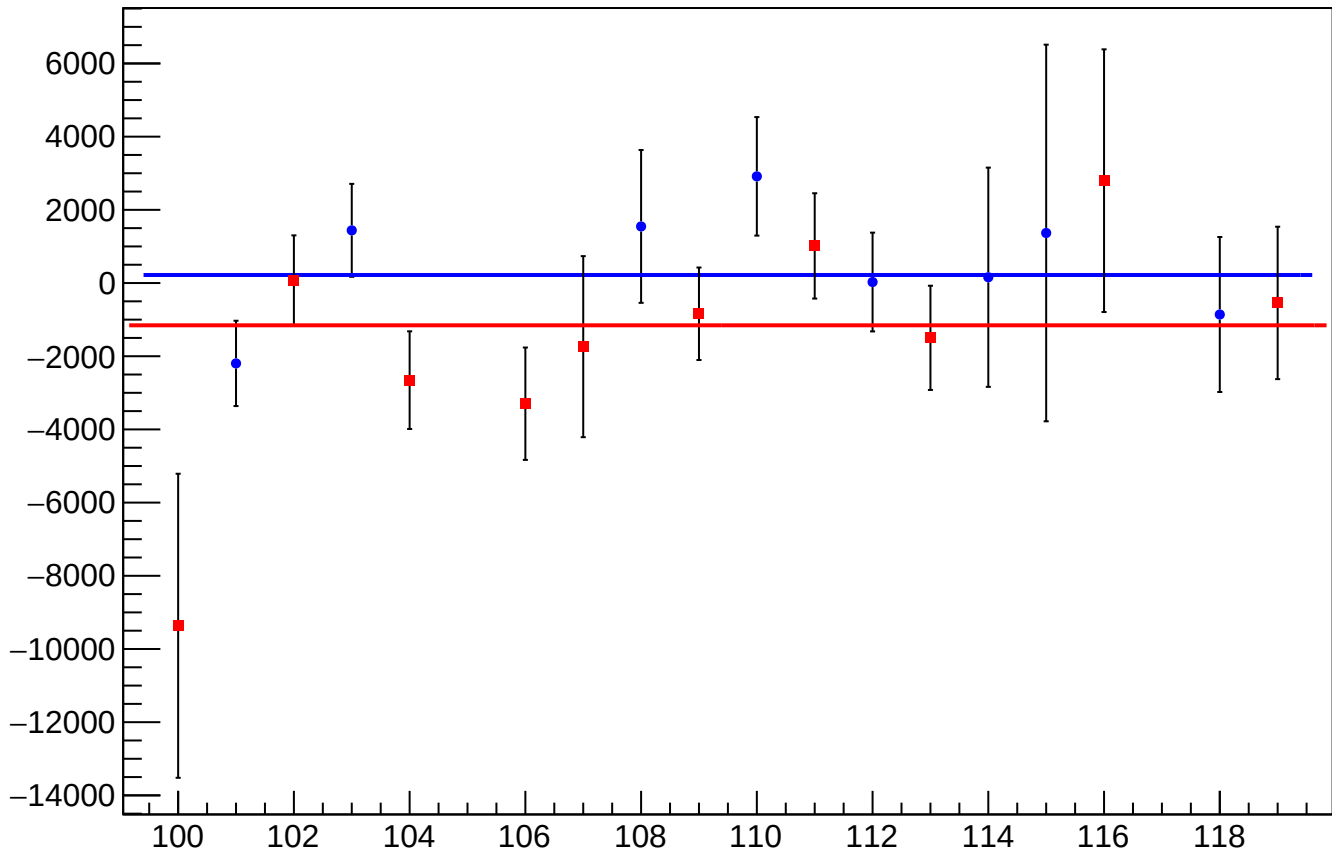
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 111.064 $\pm$ 0.030  $\chi^2$ /NDF: 555654.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_48\_dd\_dit\_correction\_mean vs Slug



Right In: 220.015 $\pm$ 588.464  $\chi^2$ /NDF: 8.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1155.173 $\pm$ 514.974  $\chi^2$ /NDF: 11.8/9

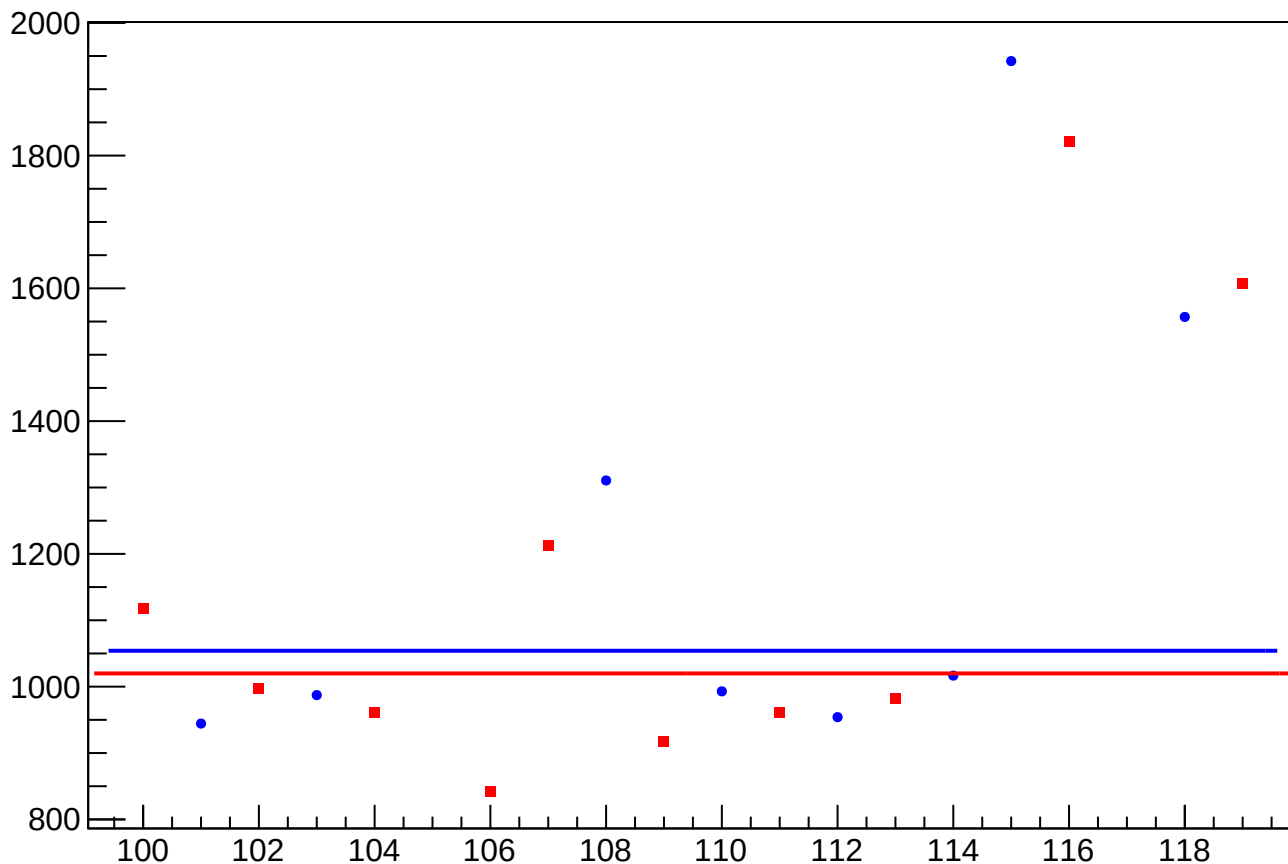
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -558.764 $\pm$ 387.535  $\chi^2$ /NDF: 23.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_dd\_dit\_correction\_rms vs Slug



Right In: 1054.066+/-0.416  $\chi^2/\text{NDF}$ : 239958.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1019.921+/-0.364  $\chi^2/\text{NDF}$ : 321048.0/9

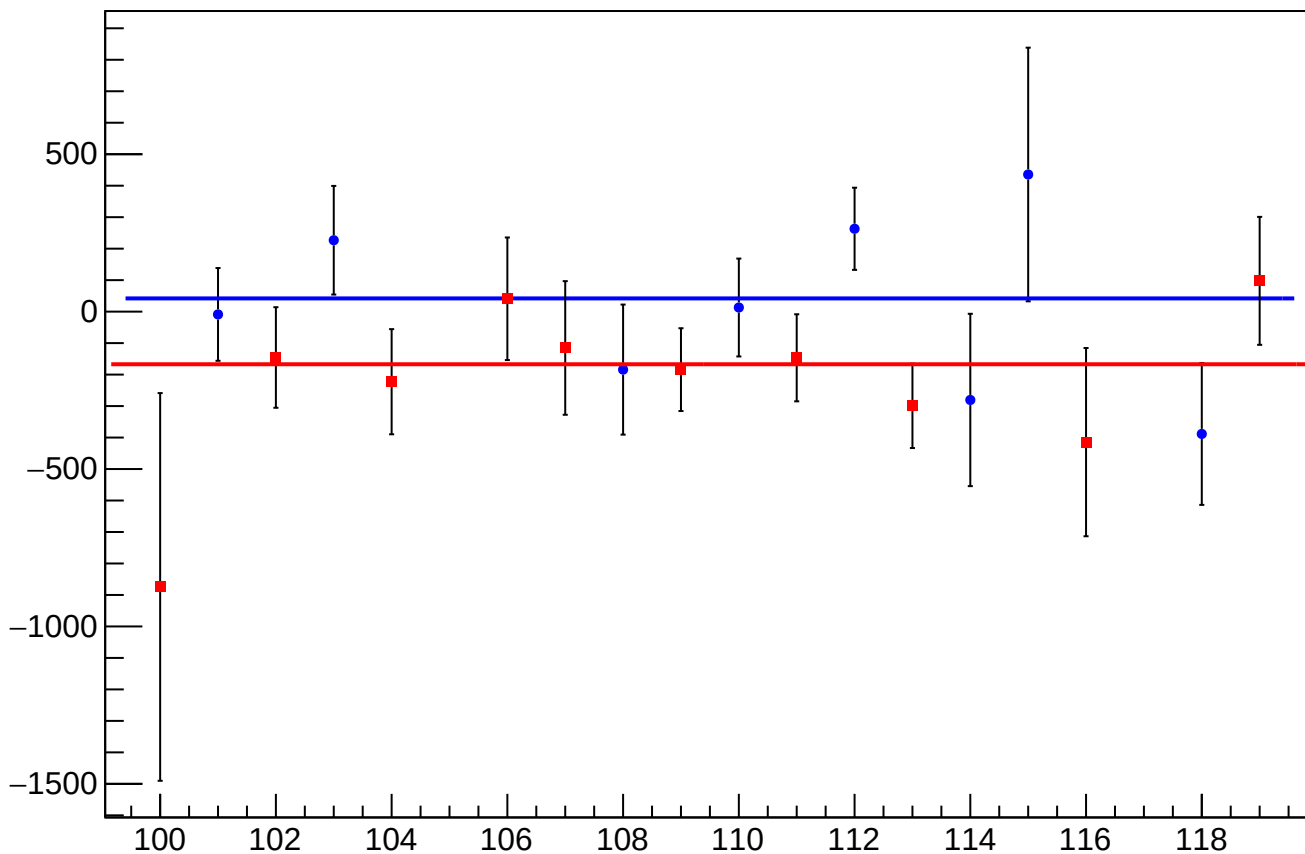
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1034.729+/-0.274  $\chi^2/\text{NDF}$ : 564819.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 41.970 $\pm$ 64.225  $\chi^2/\text{NDF}$ : 11.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -167.174 $\pm$ 55.260  $\chi^2/\text{NDF}$ : 6.0/9

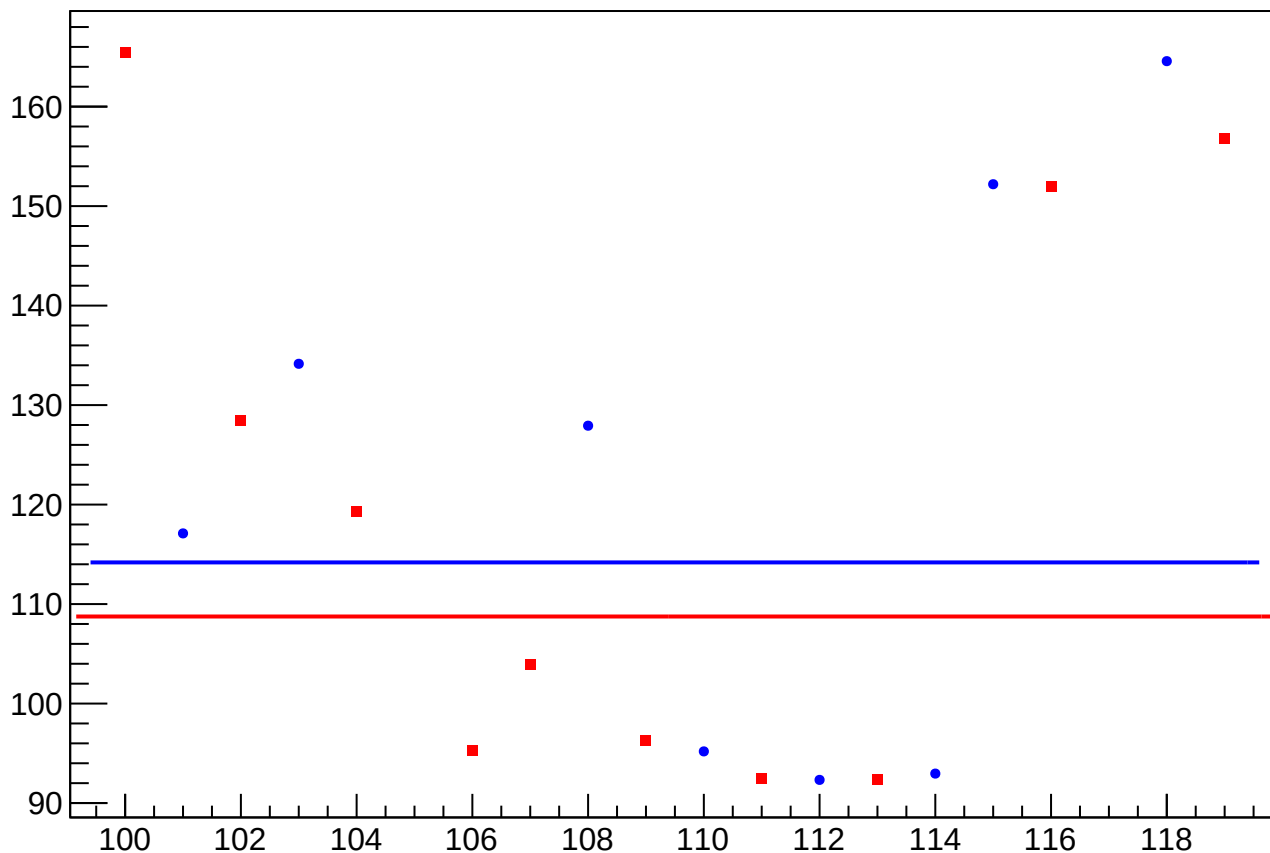
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -78.206 $\pm$ 41.889  $\chi^2/\text{NDF}$ : 23.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 114.187 $\pm$ 0.045  $\chi^2$ /NDF: 252184.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 108.751 $\pm$ 0.039  $\chi^2$ /NDF: 295243.2/9

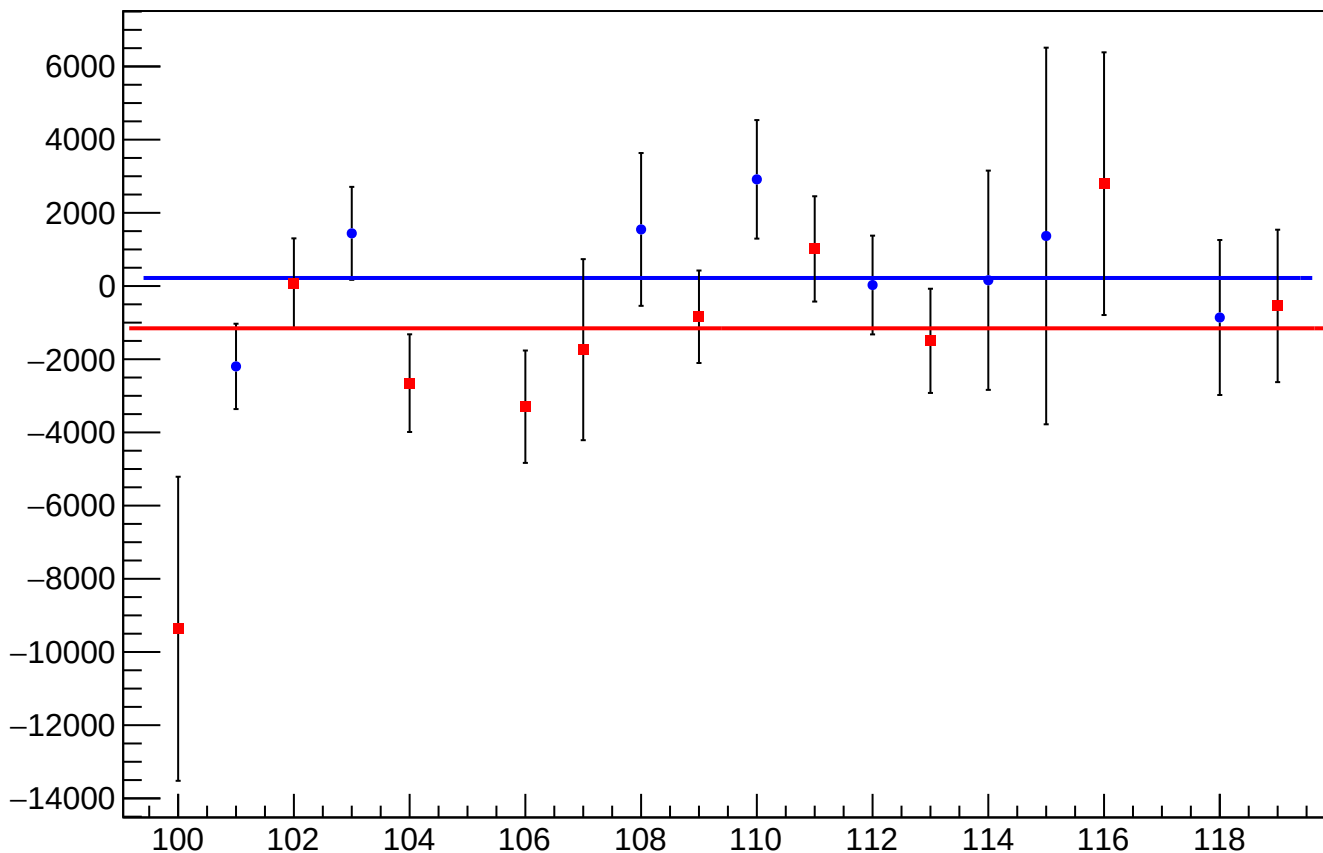
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 111.064 $\pm$ 0.030  $\chi^2$ /NDF: 555661.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 220.017 $\pm$ 588.465  $\chi^2$ /NDF: 8.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1155.172 $\pm$ 514.974  $\chi^2$ /NDF: 11.8/9

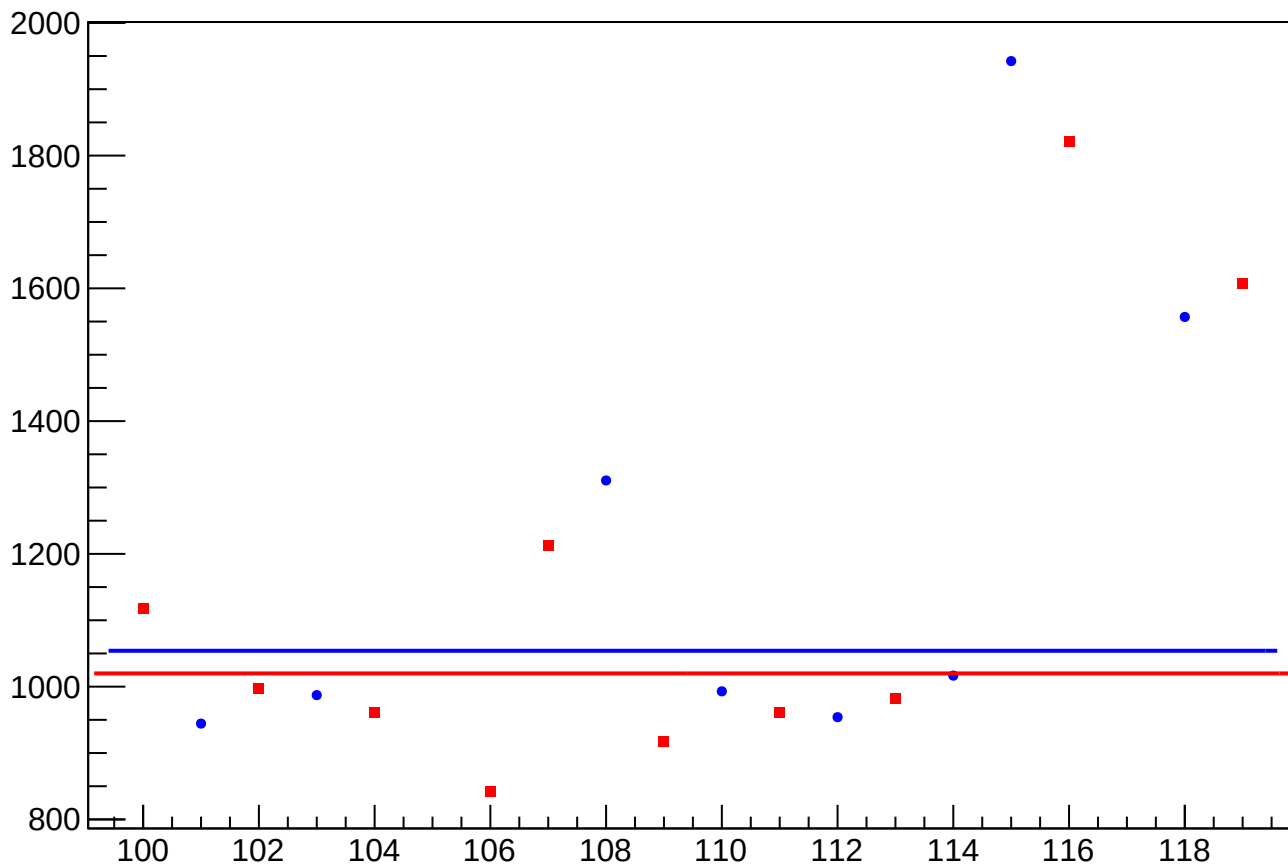
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -558.763 $\pm$ 387.535  $\chi^2$ /NDF: 23.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1054.066+/-0.416  $\chi^2/\text{NDF}$ : 239958.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1019.921+/-0.364  $\chi^2/\text{NDF}$ : 321049.2/9

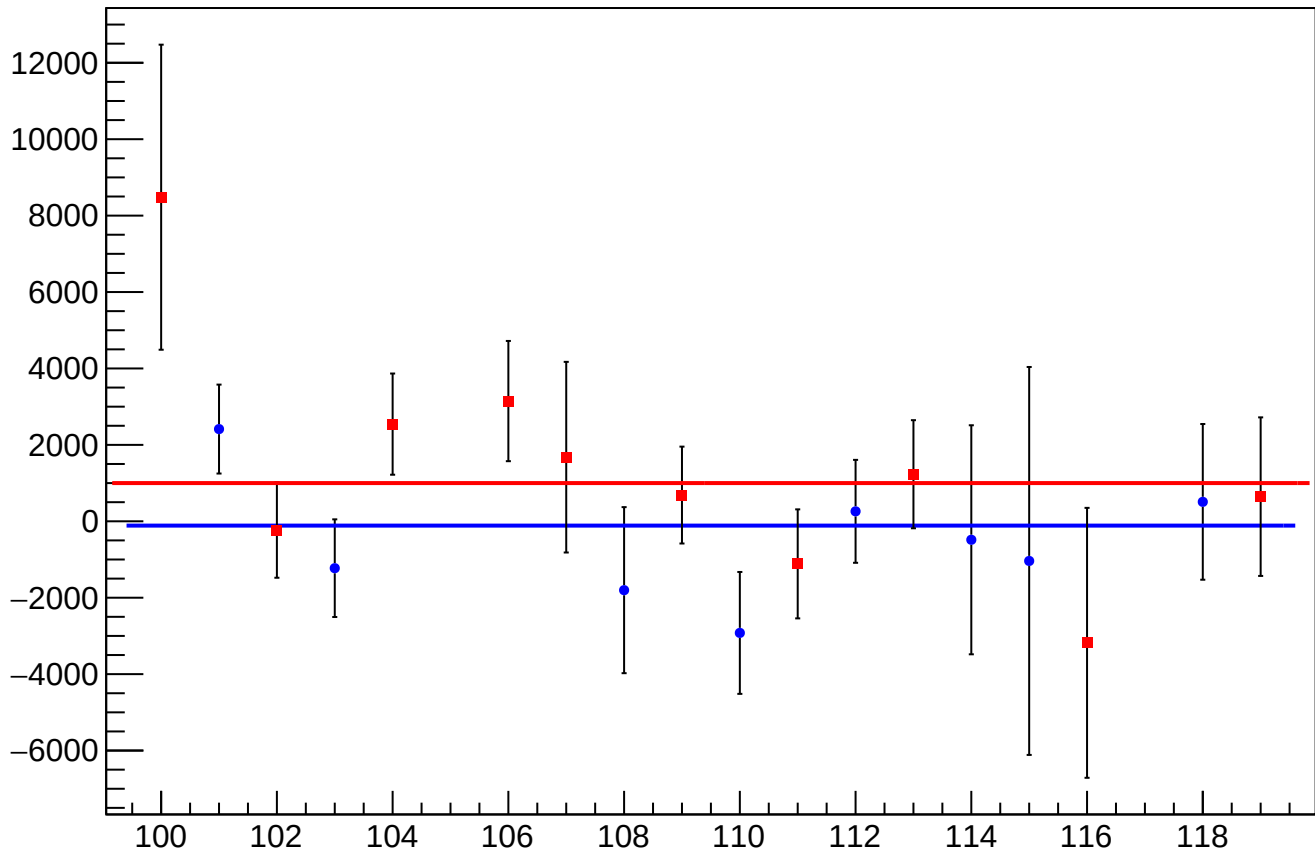
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1034.729+/-0.274  $\chi^2/\text{NDF}$ : 564820.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_dd\_mean vs Slug



Right In: -112.736 $\pm$ 587.438  $\chi^2$ /NDF: 9.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1000.320 $\pm$ 515.355  $\chi^2$ /NDF: 11.5/9

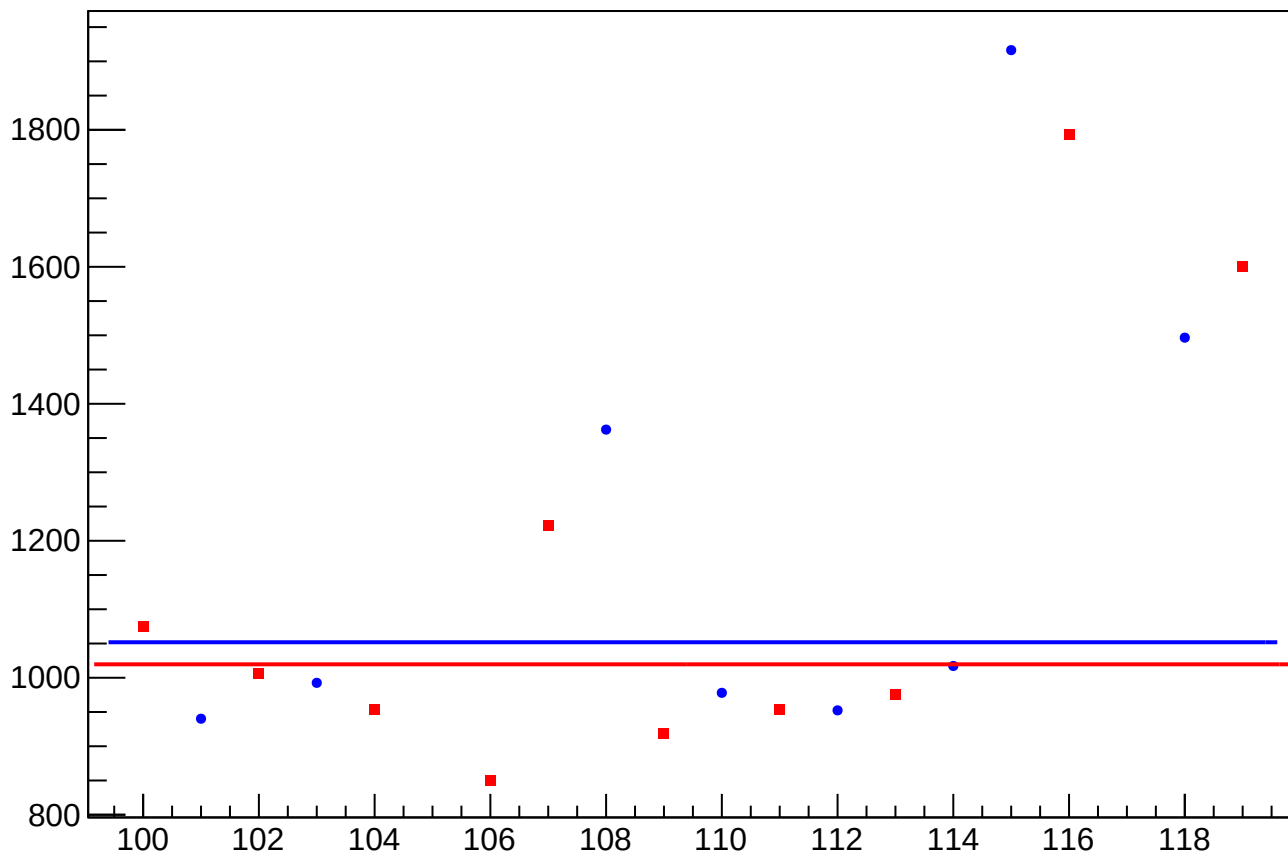
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 516.237 $\pm$ 387.403  $\chi^2$ /NDF: 22.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_dd\_rms vs Slug



Right In: 1051.839+/-0.415  $\chi^2/\text{NDF}$ : 232289.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1019.625+/-0.364  $\chi^2/\text{NDF}$ : 313571.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

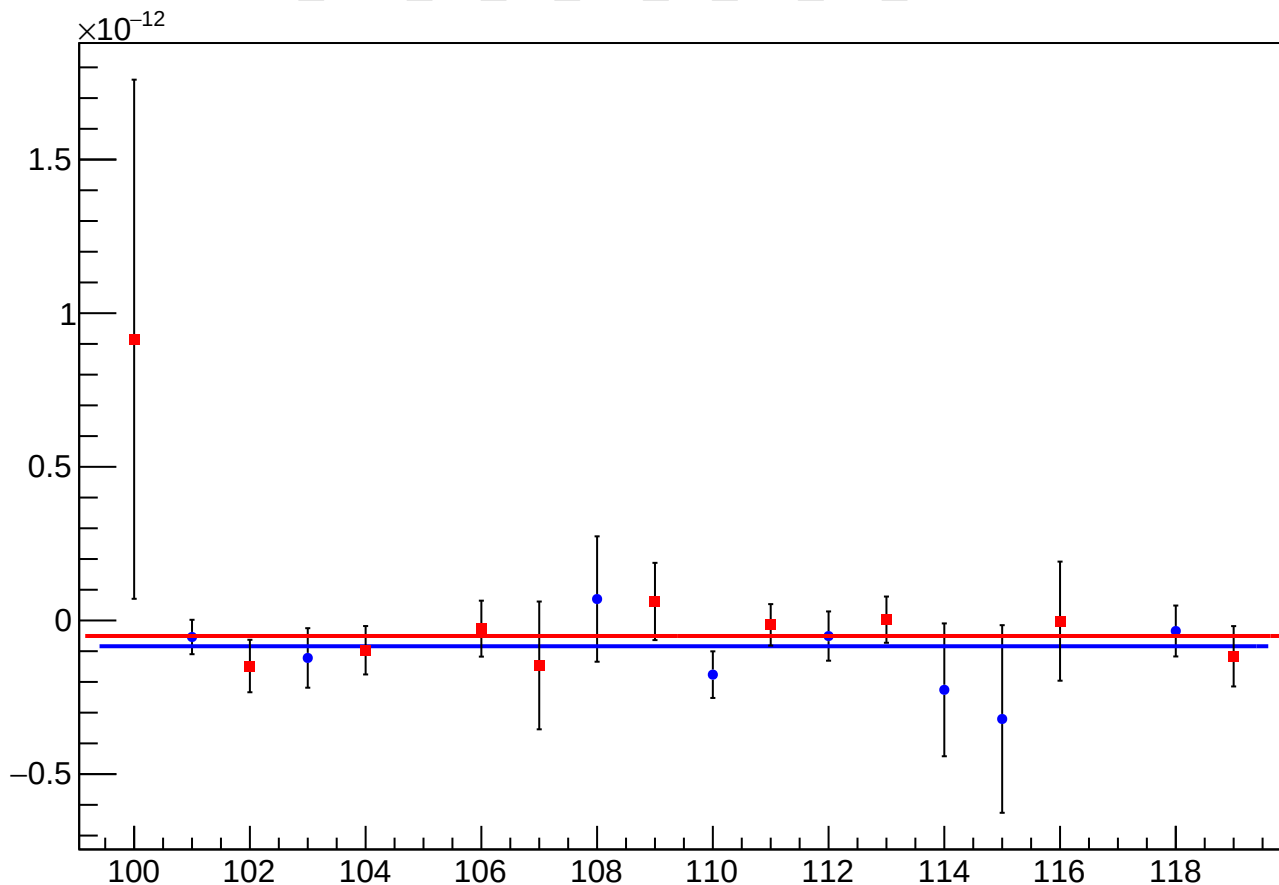
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1033.635+/-0.274  $\chi^2/\text{NDF}$ : 549259.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_48\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 4.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 5.3/9

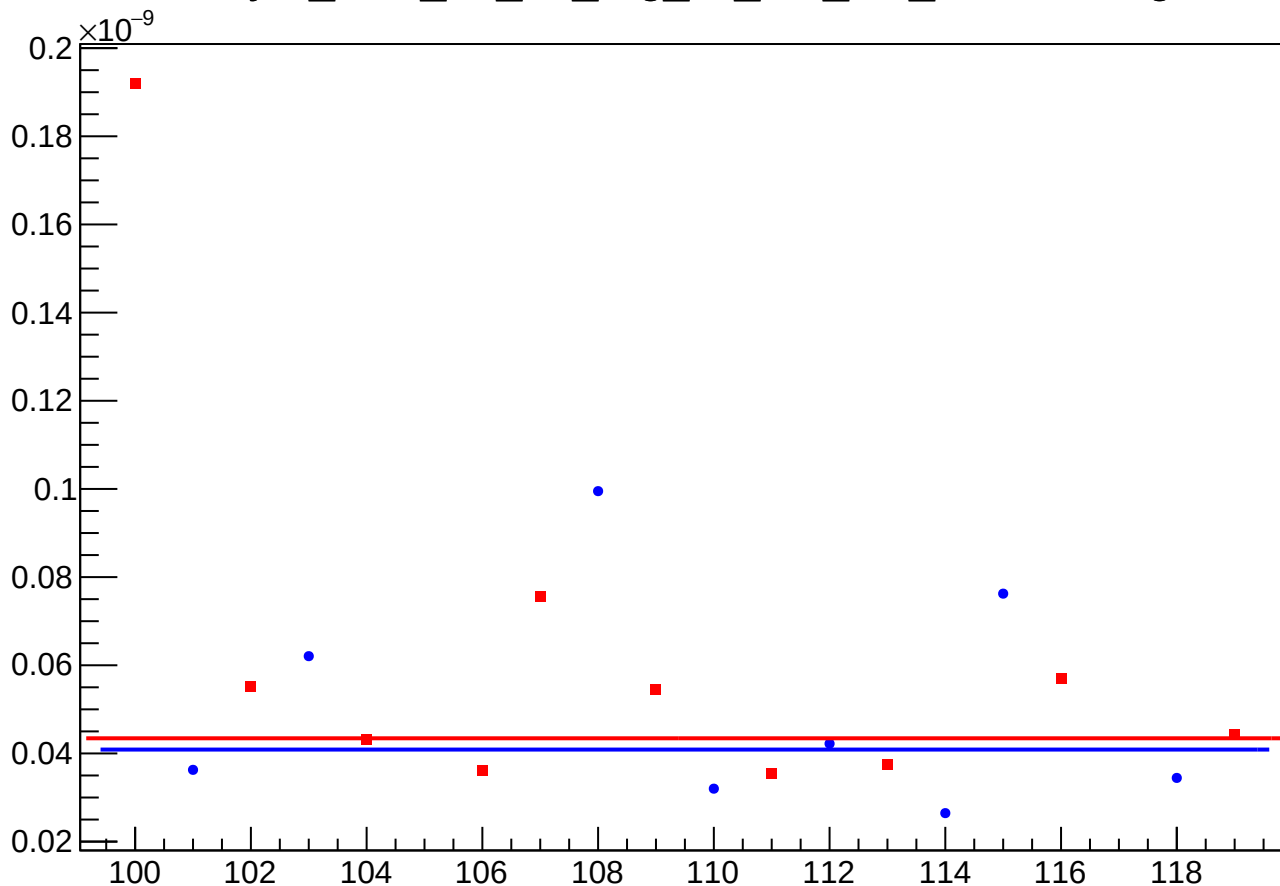
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 10.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 350019.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 226593.3/9

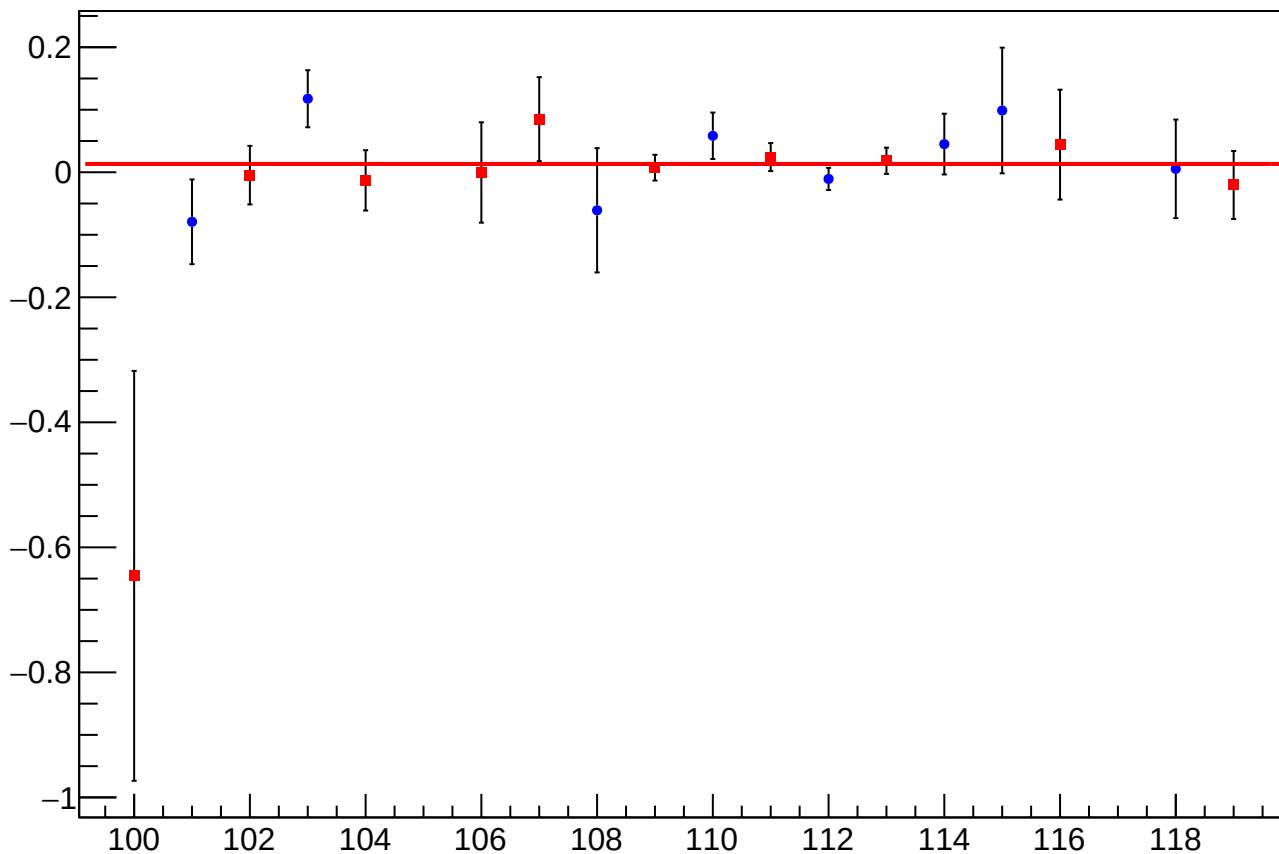
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 583110.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.014  $\chi^2$ /NDF: 12.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.013 $\pm$ 0.011  $\chi^2$ /NDF: 6.5/9

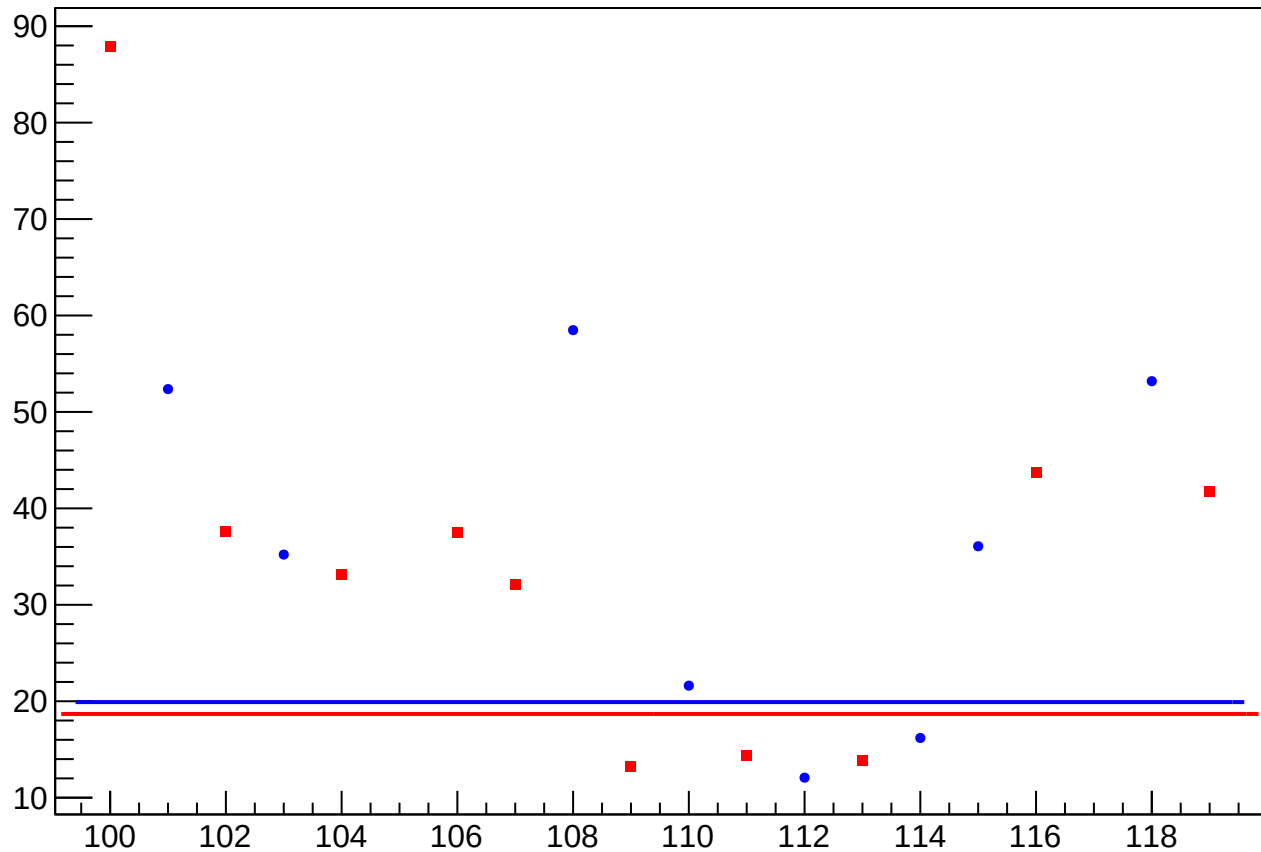
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.013 $\pm$ 0.009  $\chi^2$ /NDF: 18.6/17

- 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: 19.911 $\pm$ 0.010  $\chi^2$ /NDF: 1799292.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18.682 $\pm$ 0.008  $\chi^2$ /NDF: 1626780.2/9

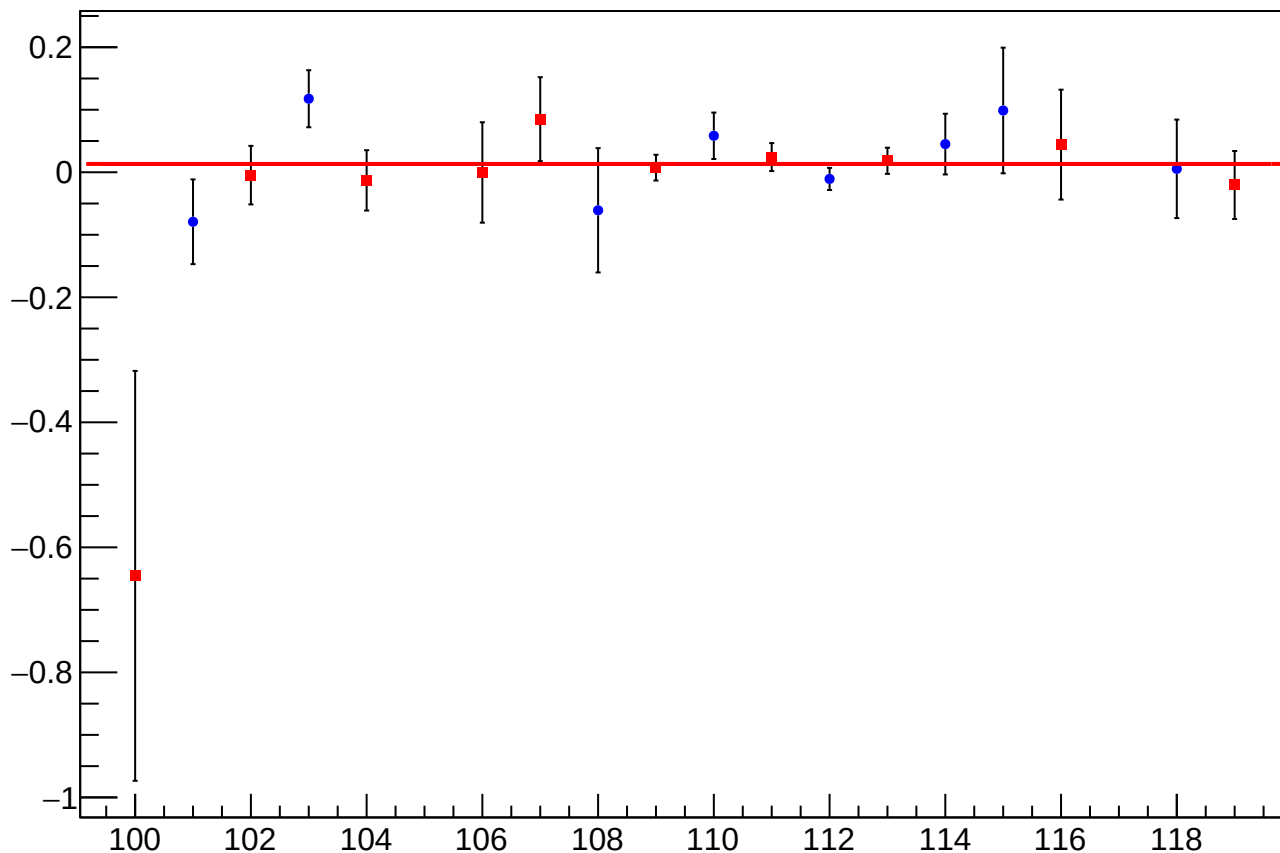
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 19.163 $\pm$ 0.006  $\chi^2$ /NDF: 3435982.4/17

- 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: 0.013 $\pm$ 0.014  $\chi^2$ /NDF: 12.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.013 $\pm$ 0.011  $\chi^2$ /NDF: 6.5/9

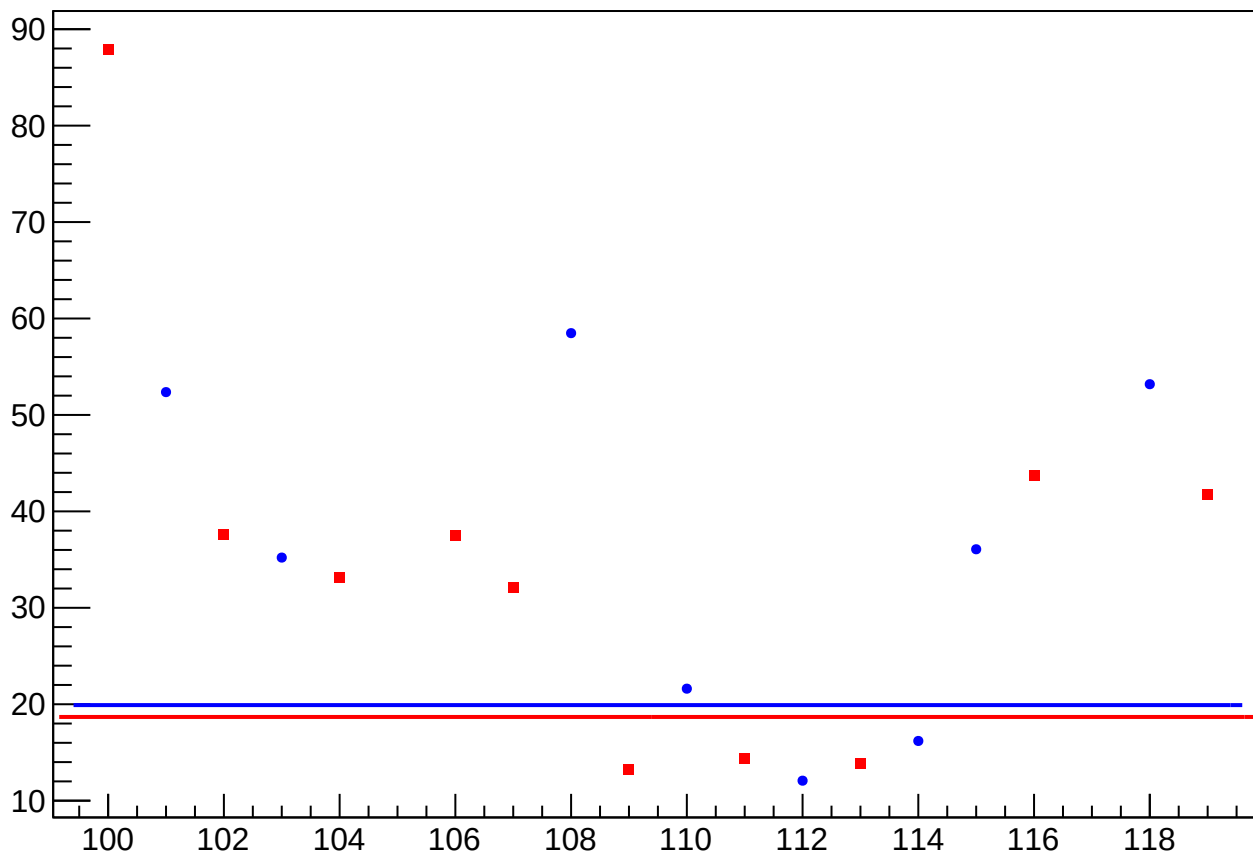
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.013 $\pm$ 0.009  $\chi^2$ /NDF: 18.6/17

- 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: 19.911+/-0.010  $\chi^2/\text{NDF}$ : 1799292.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18.682+/-0.008  $\chi^2/\text{NDF}$ : 1626780.2/9

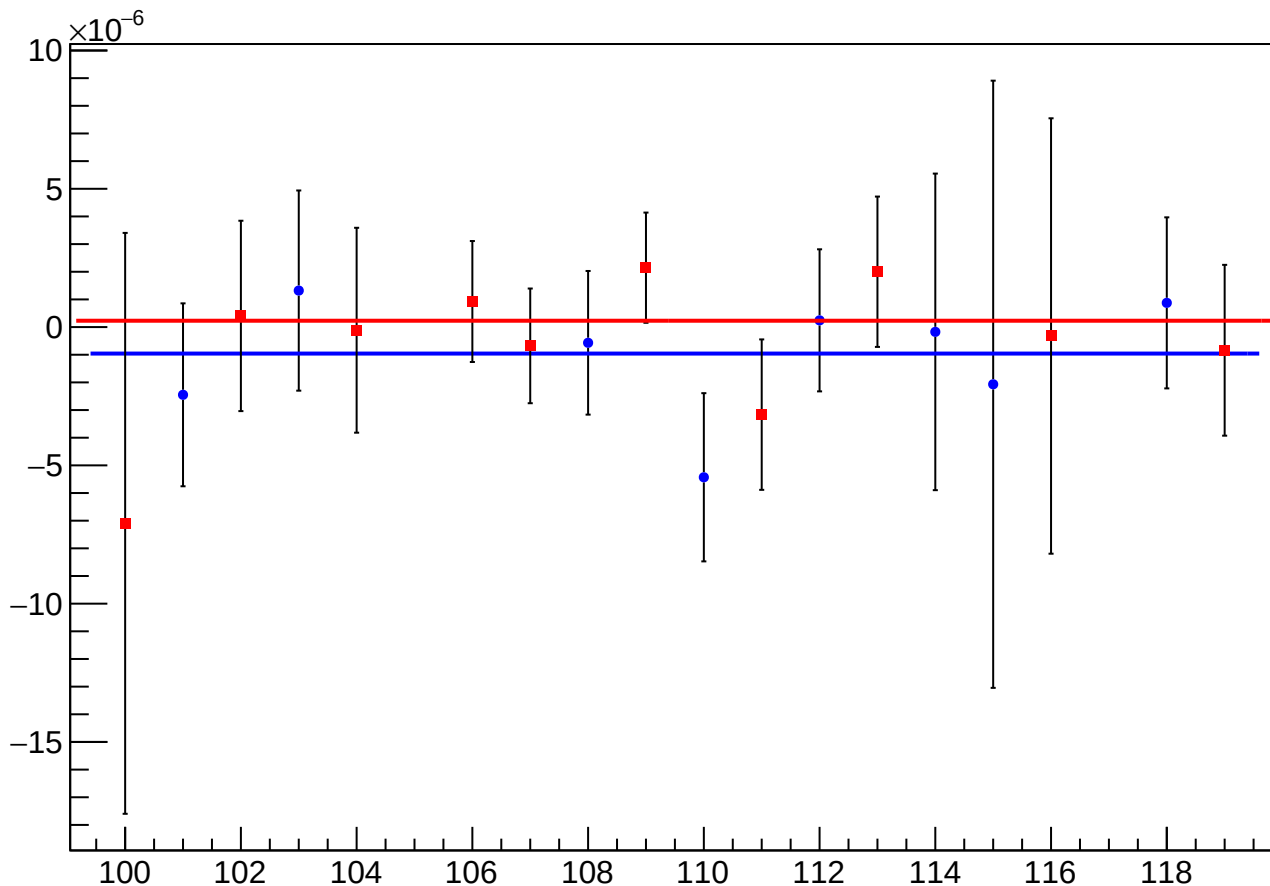
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.163+/-0.006  $\chi^2/\text{NDF}$ : 3435982.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.8/9

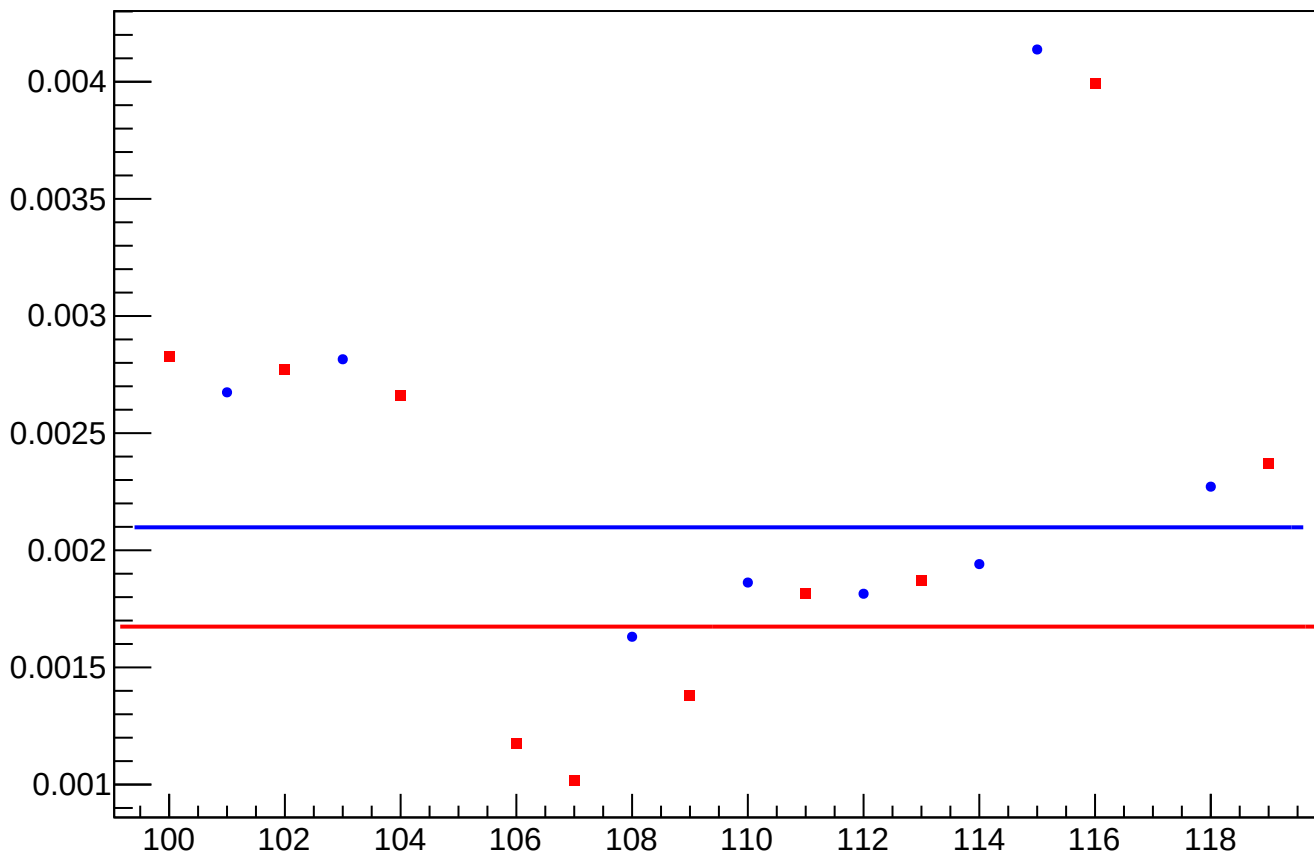
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 317293.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1009298.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

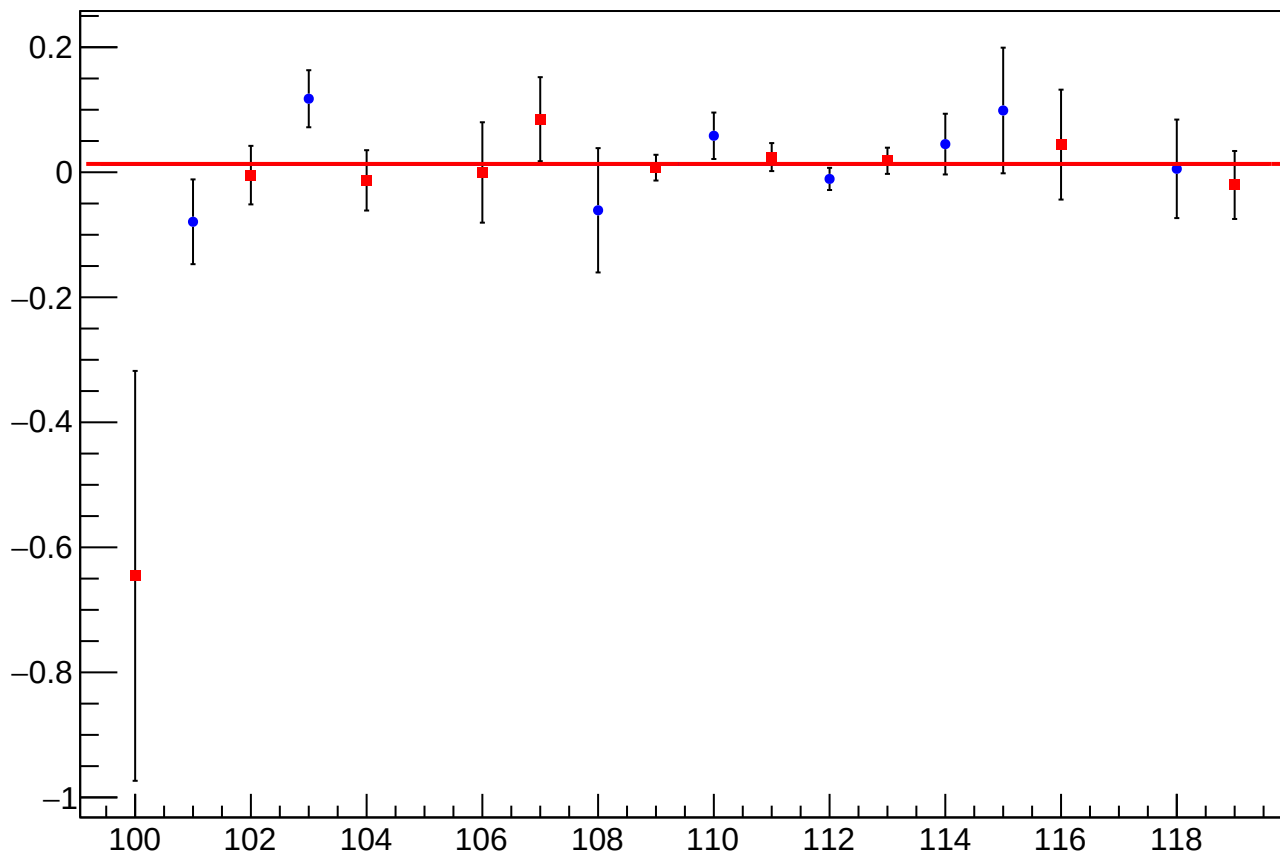
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1490703.4/17

- 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: 0.013 $\pm$ 0.014  $\chi^2$ /NDF: 12.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.013 $\pm$ 0.011  $\chi^2$ /NDF: 6.5/9

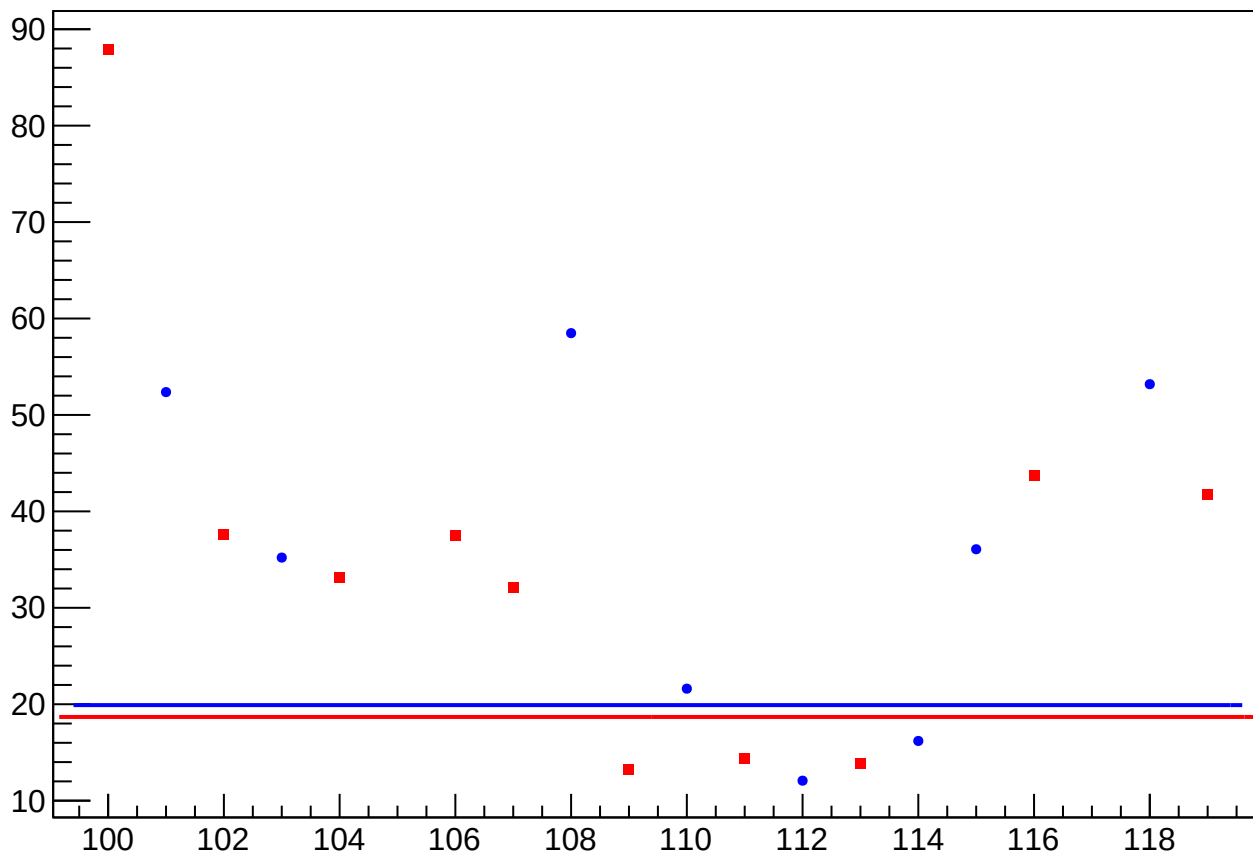
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.013 $\pm$ 0.009  $\chi^2$ /NDF: 18.6/17

- 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: 19.910 $\pm$ 0.010  $\chi^2$ /NDF: 1799469.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18.681 $\pm$ 0.008  $\chi^2$ /NDF: 1626784.9/9

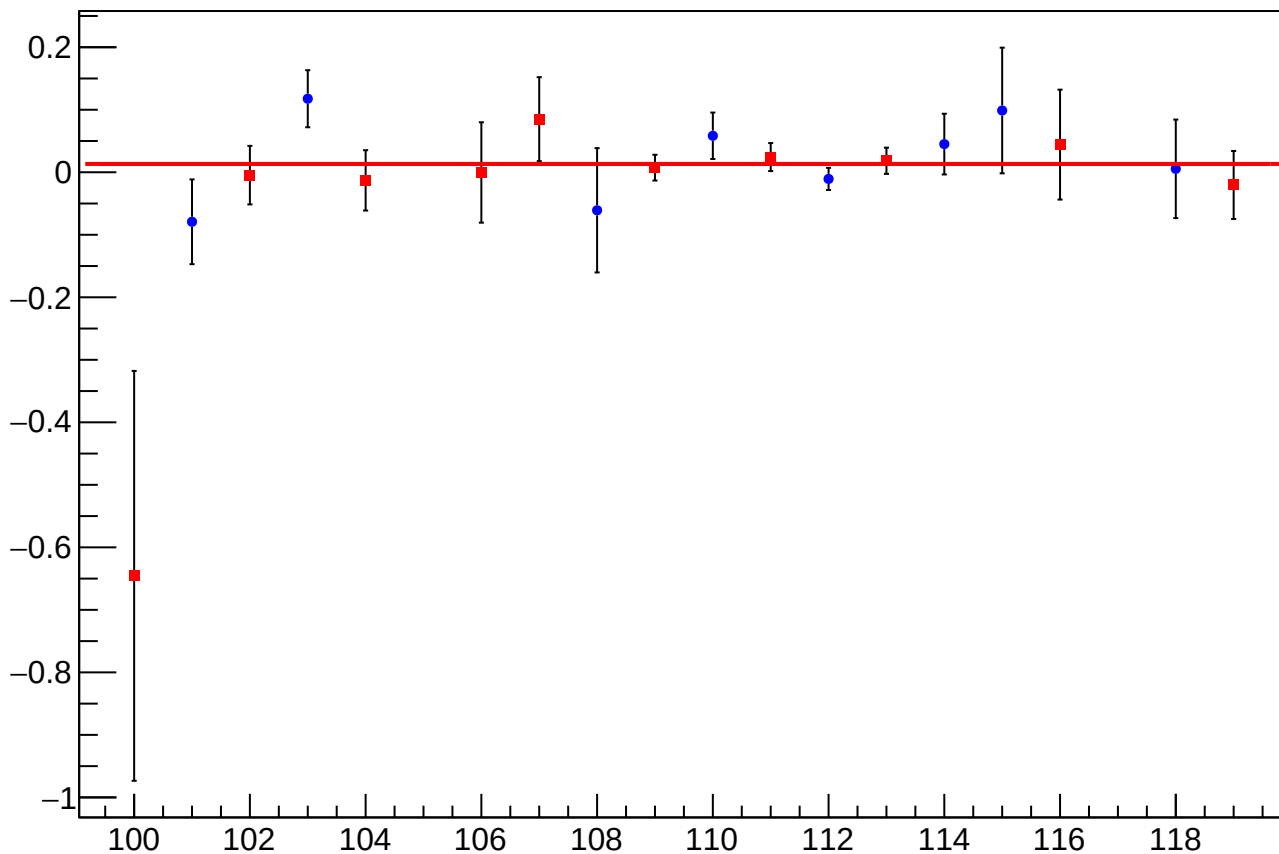
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 19.163 $\pm$ 0.006  $\chi^2$ /NDF: 3436145.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.013 $\pm$ 0.014  $\chi^2$ /NDF: 12.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.013 $\pm$ 0.011  $\chi^2$ /NDF: 6.5/9

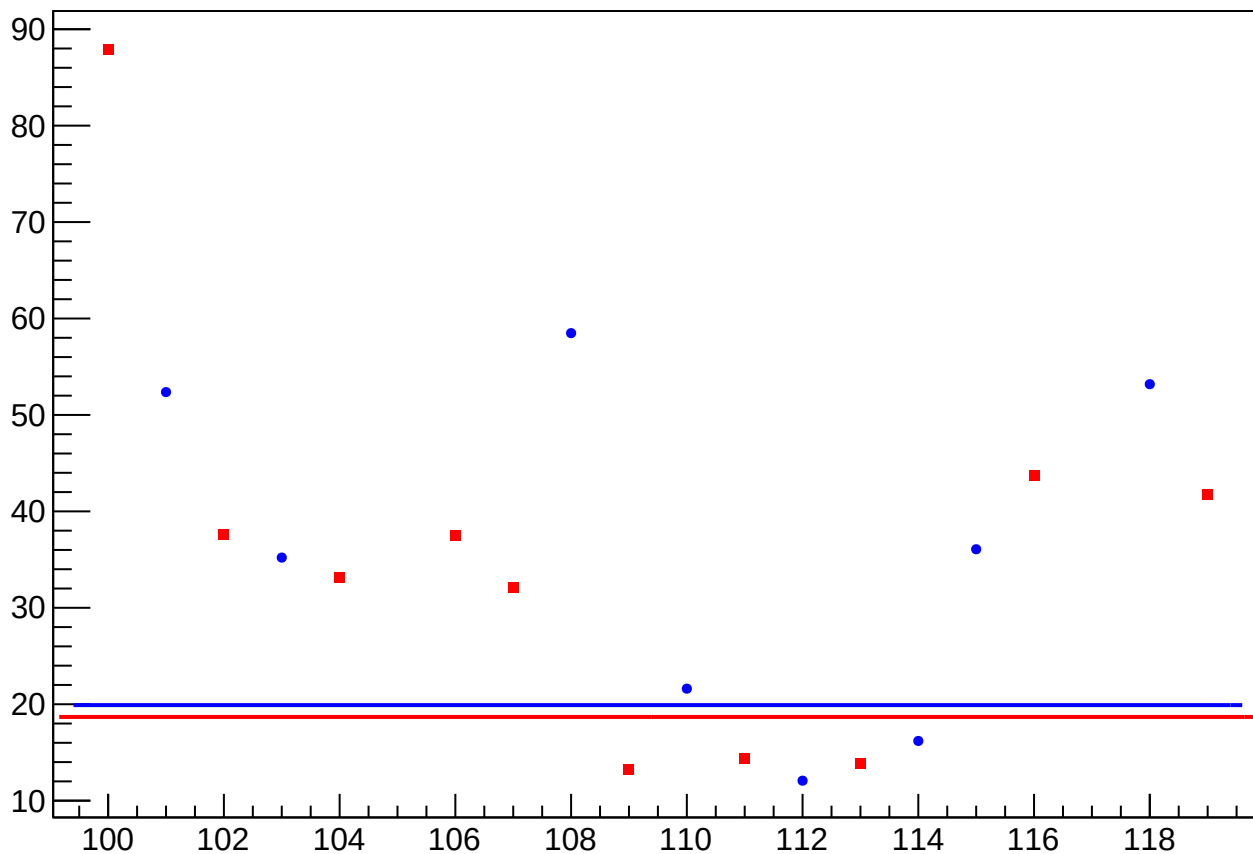
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.013 $\pm$ 0.009  $\chi^2$ /NDF: 18.6/17

- 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: 19.910 $\pm$ 0.010  $\chi^2$ /NDF: 1799469.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18.681 $\pm$ 0.008  $\chi^2$ /NDF: 1626784.9/9

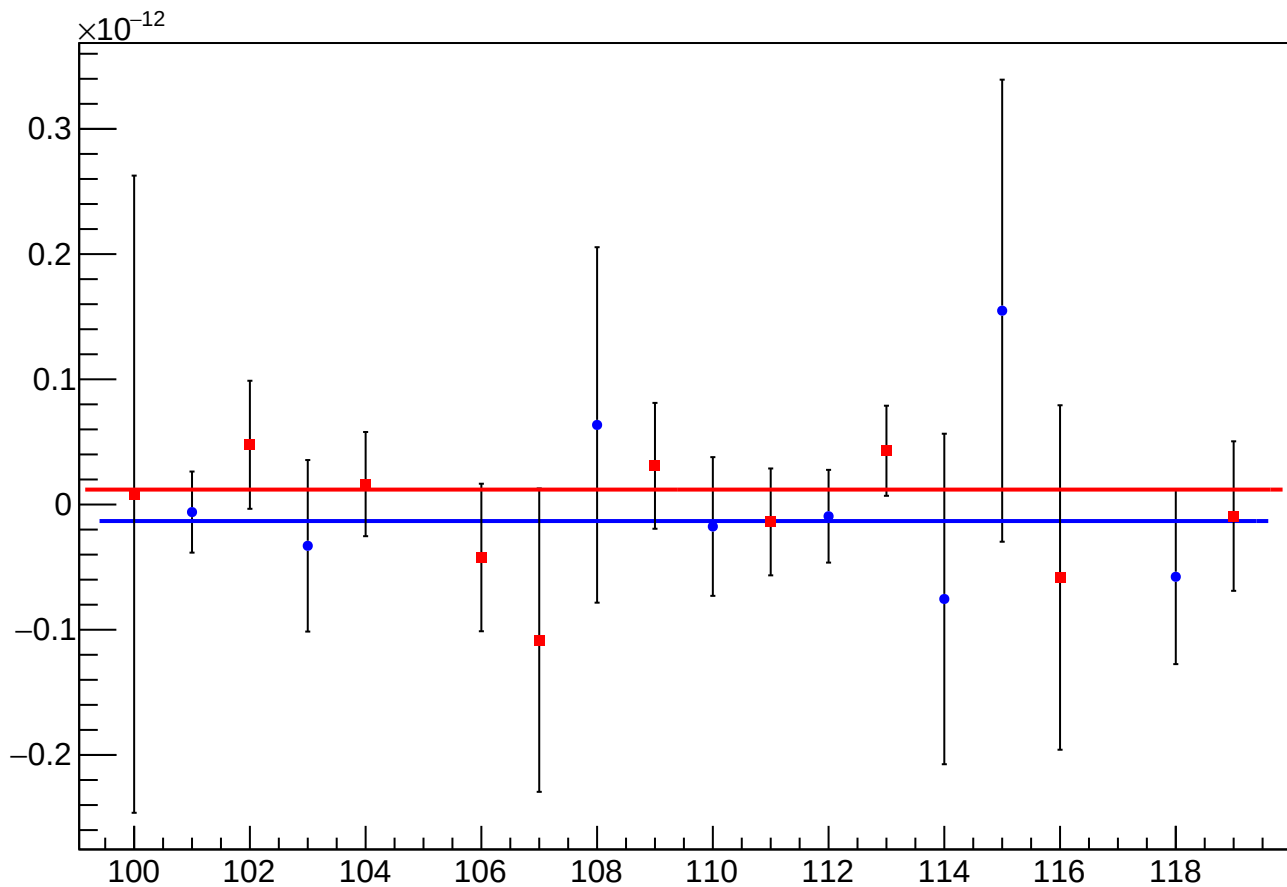
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 19.163 $\pm$ 0.006  $\chi^2$ /NDF: 3436145.2/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 1.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.0/9

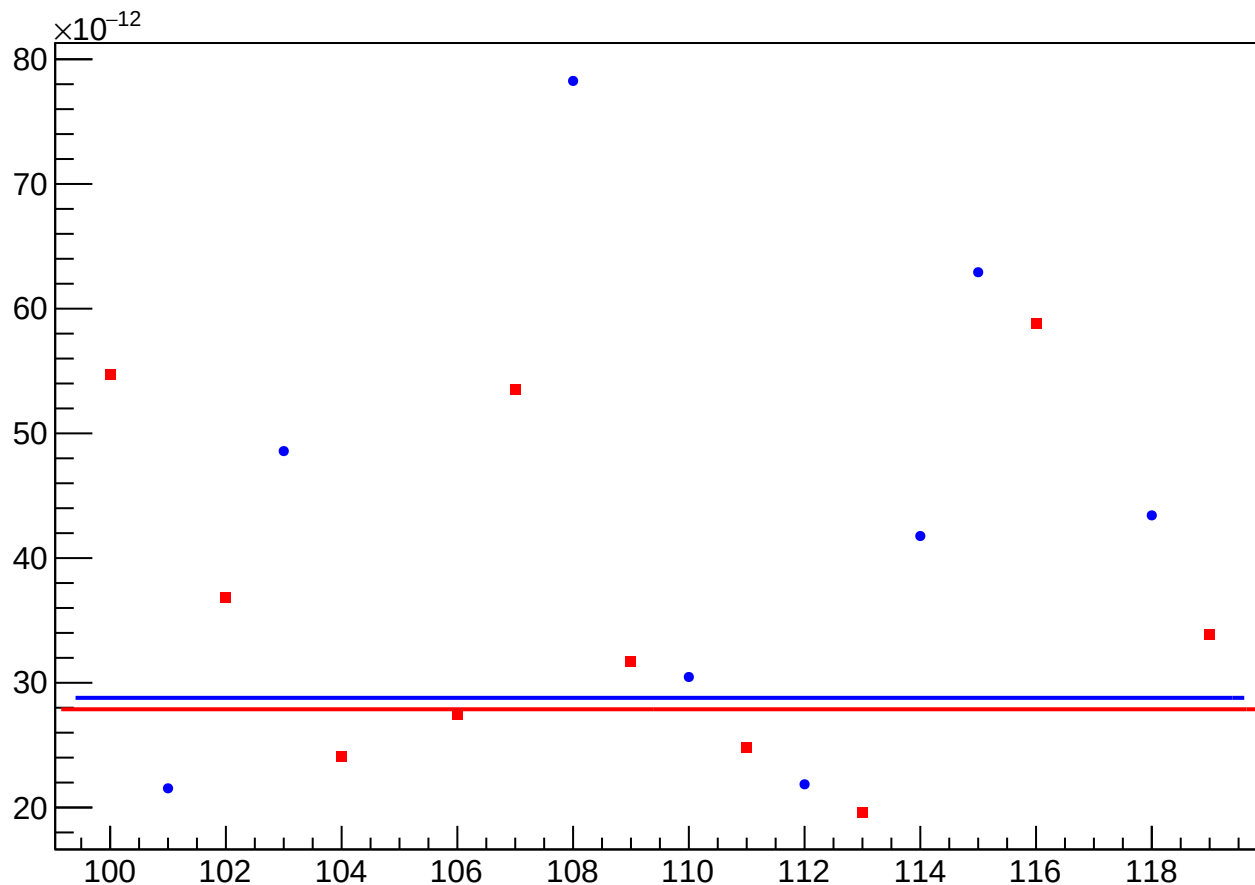
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 757820.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 439068.4/9

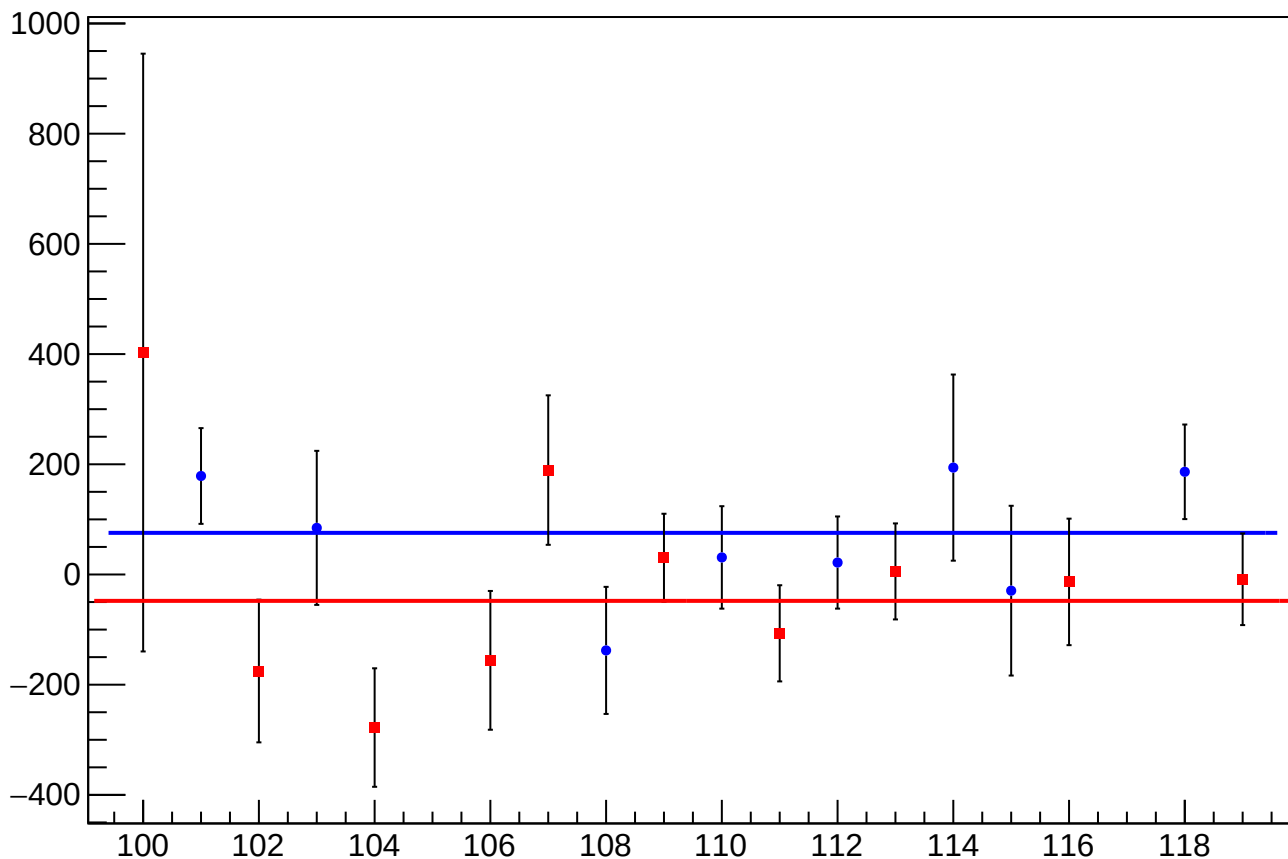
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1199341.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 75.560 $\pm$ 36.999  $\chi^2$ /NDF: 8.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -47.881 $\pm$ 33.202  $\chi^2$ /NDF: 12.1/9

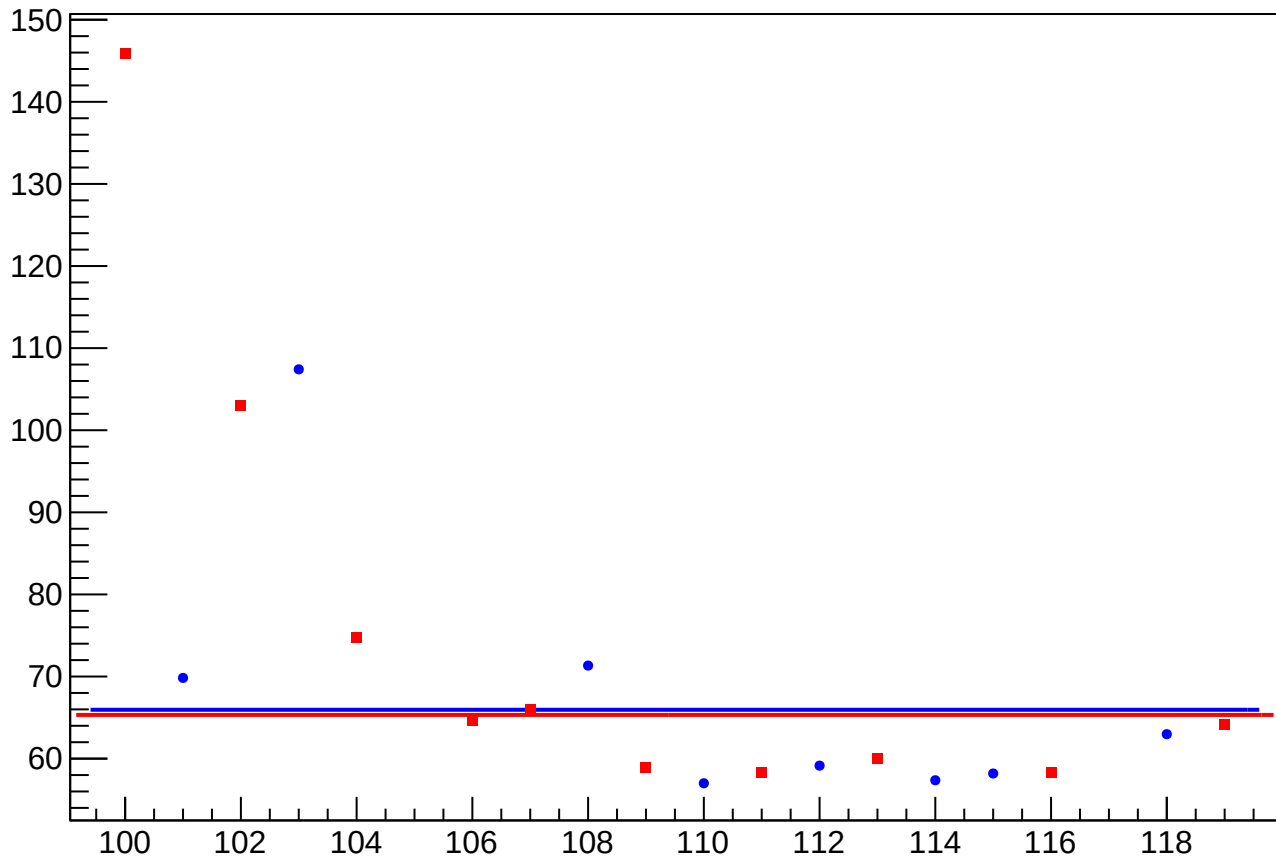
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.184 $\pm$ 24.711  $\chi^2$ /NDF: 26.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 65.951+/-0.026  $\chi^2/\text{NDF}$ : 228767.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 65.324+/-0.023  $\chi^2/\text{NDF}$ : 270374.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

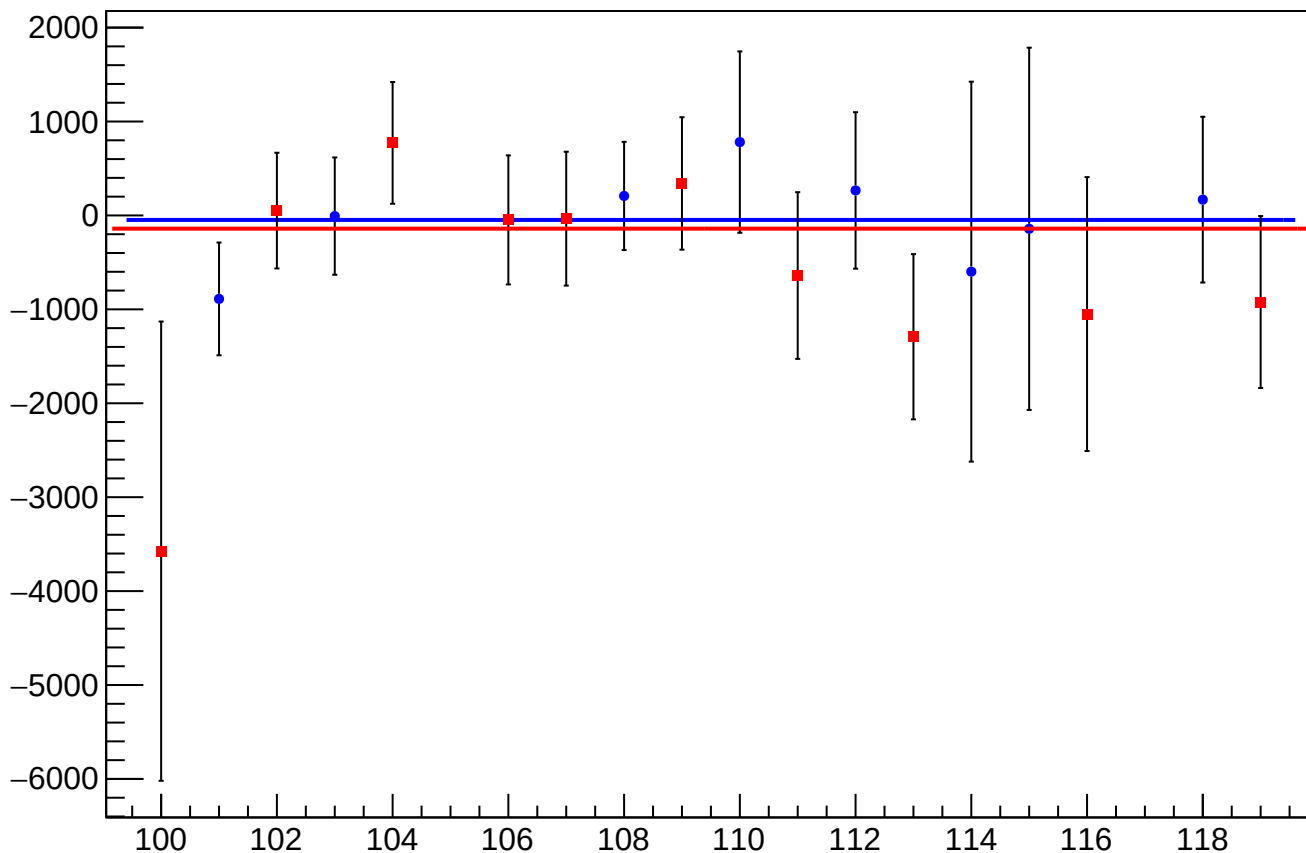
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.604+/-0.017  $\chi^2/\text{NDF}$ : 499460.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_13\_57\_dd\_reg\_correction\_mean vs Slug



Right In:  $-47.949 \pm 281.059$   $\chi^2/\text{NDF}$ : 3.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-140.795 \pm 253.932$   $\chi^2/\text{NDF}$ : 7.7/9

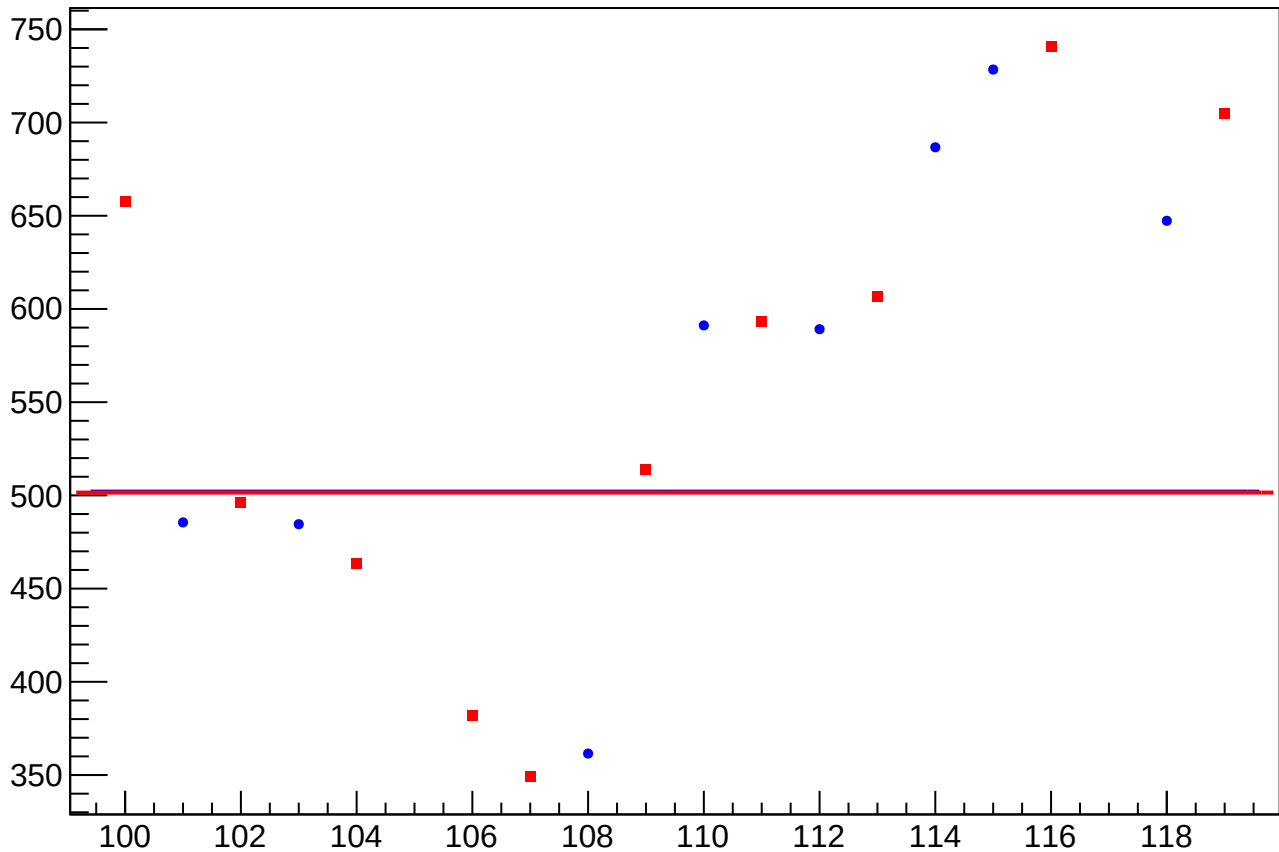
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-99.068 \pm 188.419$   $\chi^2/\text{NDF}$ : 10.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_reg\_correction\_rms vs Slug



Right In: 502.034+/-0.199  $\chi^2/\text{NDF}$ : 259297.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 501.515+/-0.180  $\chi^2/\text{NDF}$ : 370390.2/9

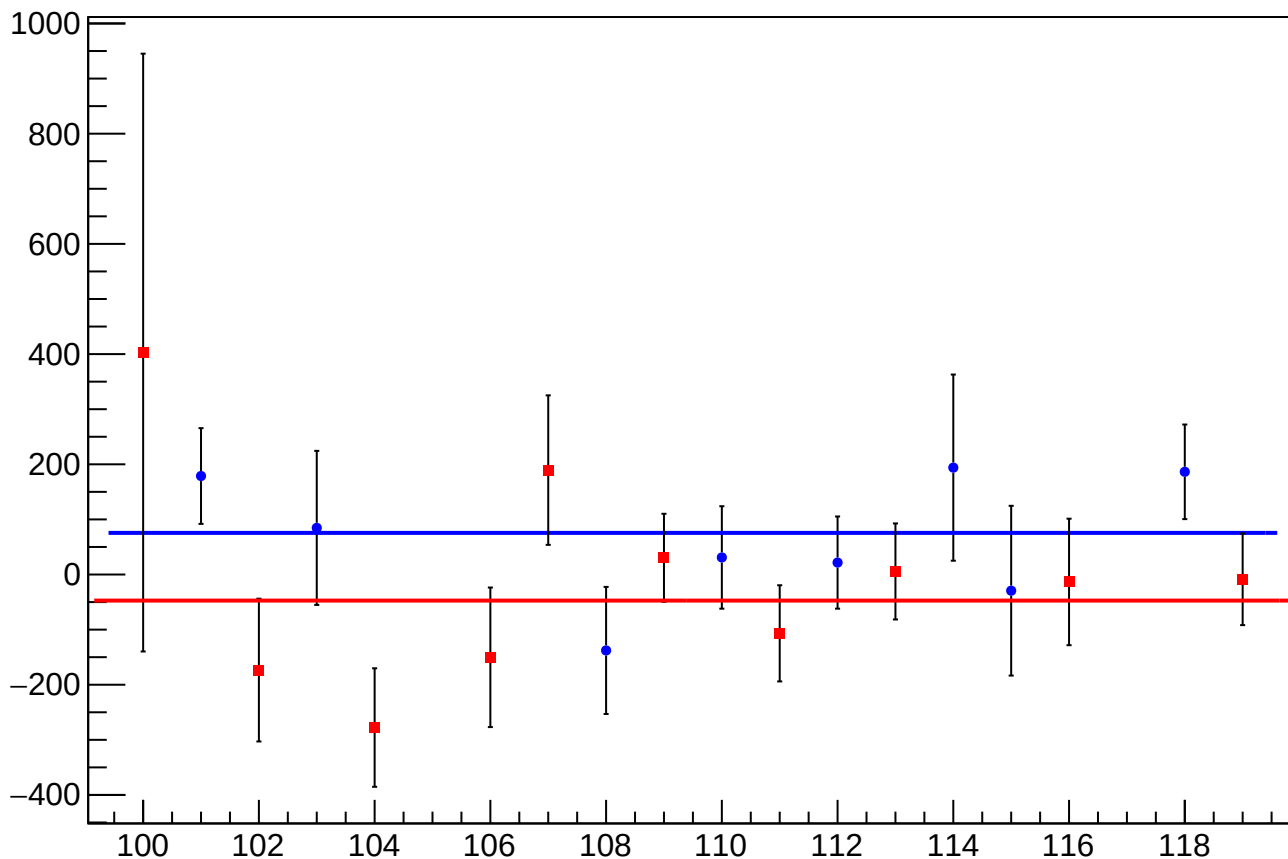
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 501.748+/-0.133  $\chi^2/\text{NDF}$ : 629691.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 75.565 $\pm$ 36.999  $\chi^2$ /NDF: 8.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -47.288 $\pm$ 33.216  $\chi^2$ /NDF: 12.0/9

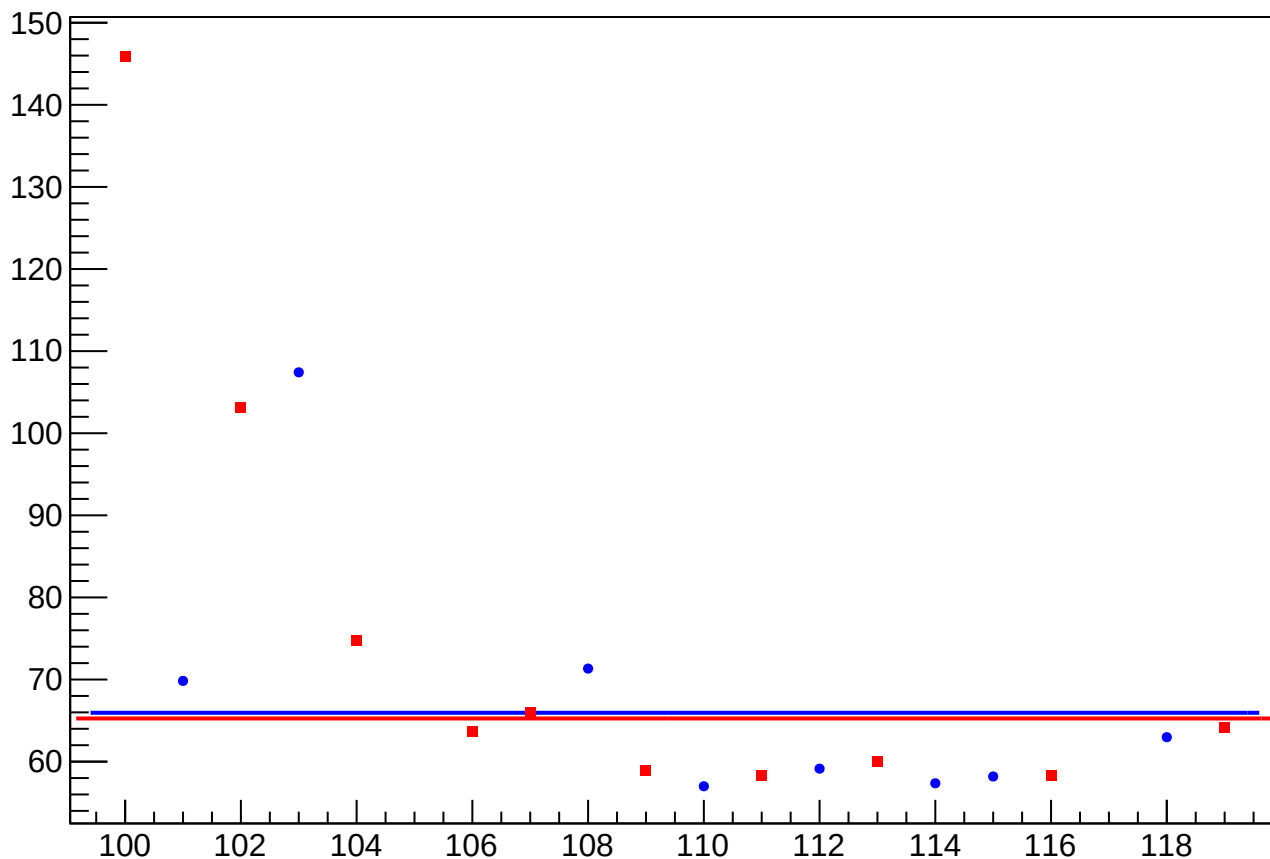
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.539 $\pm$ 24.717  $\chi^2$ /NDF: 26.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 65.951+/-0.026  $\chi^2/\text{NDF}$ : 228769.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 65.257+/-0.023  $\chi^2/\text{NDF}$ : 270885.8/9

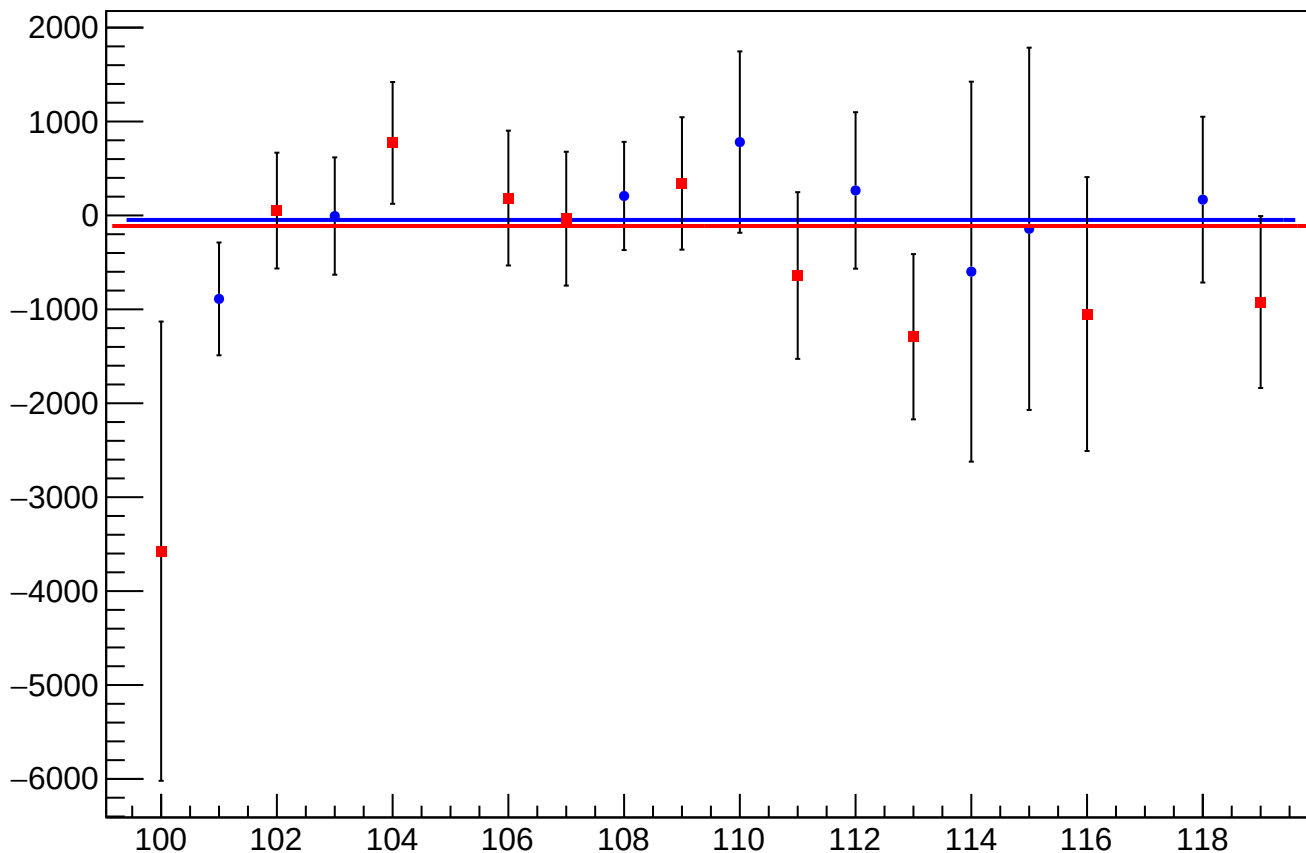
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

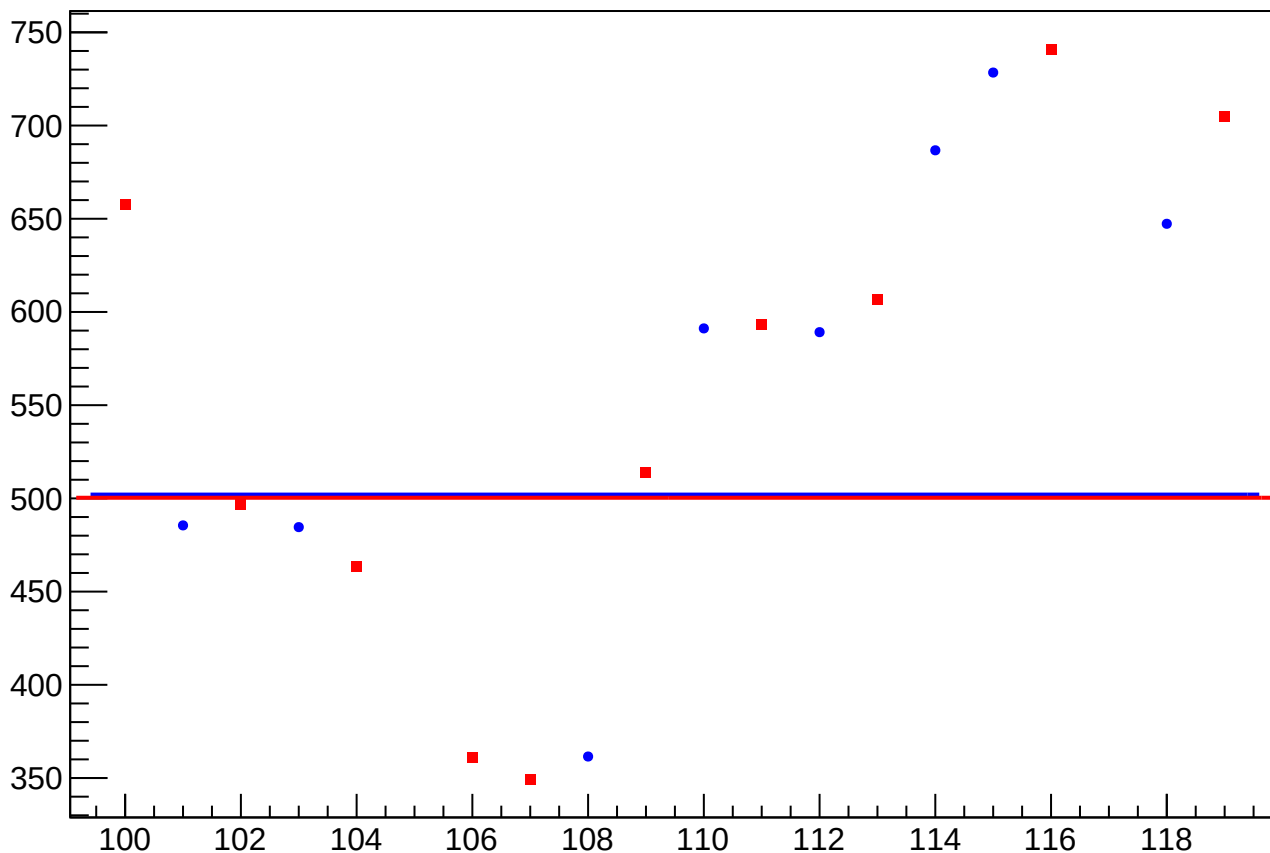
All: 65.567+/-0.017  $\chi^2/\text{NDF}$ : 500045.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_cor\_correction\_mean vs Slug



asym\_sam\_13\_57\_dd\_cor\_correction\_rms vs Slug



Right In: 502.040+/-0.199  $\chi^2/\text{NDF}$ : 259291.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 500.343+/-0.181  $\chi^2/\text{NDF}$ : 386362.8/9

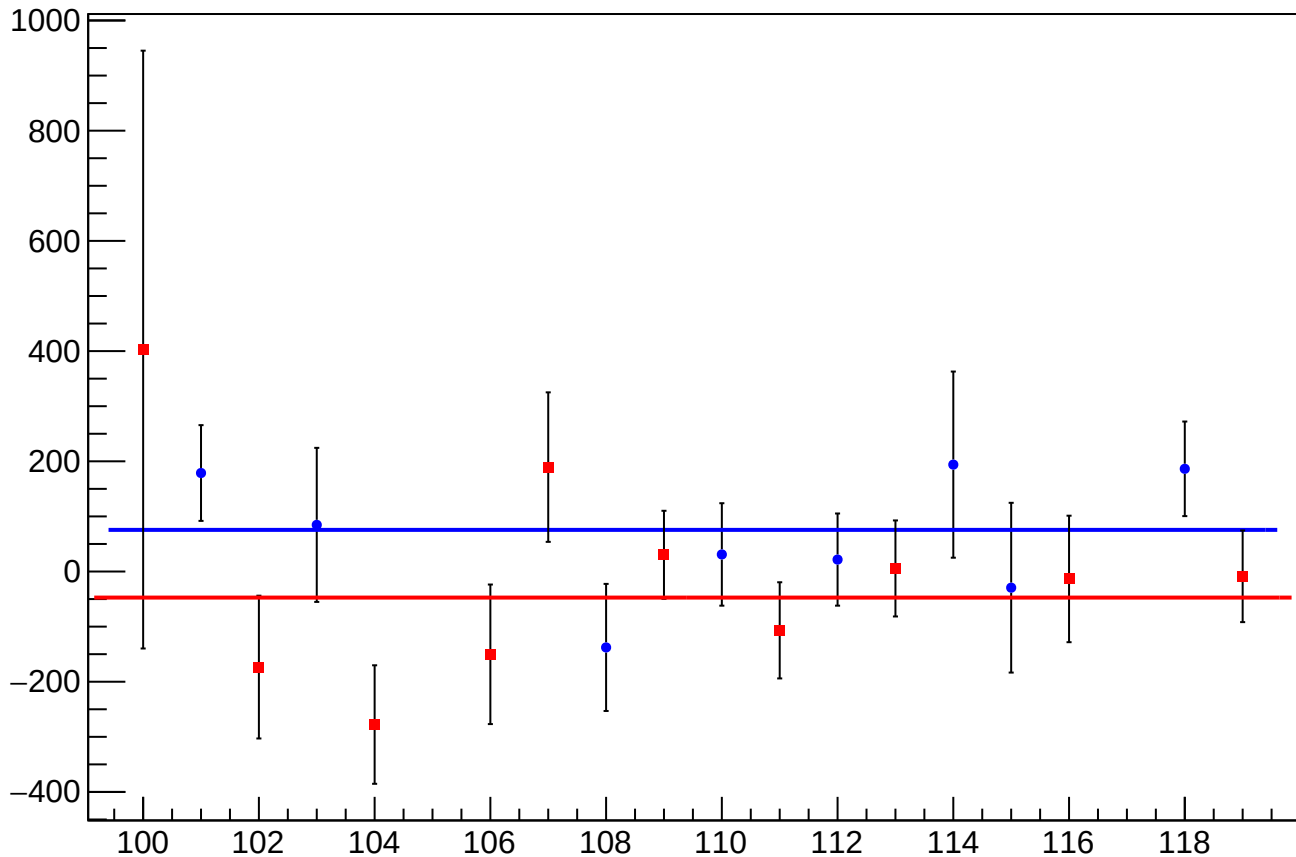
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 501.111+/-0.134  $\chi^2/\text{NDF}$ : 645694.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 75.565 $\pm$ 36.999  $\chi^2/\text{NDF}$ : 8.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -47.288 $\pm$ 33.216  $\chi^2/\text{NDF}$ : 12.0/9

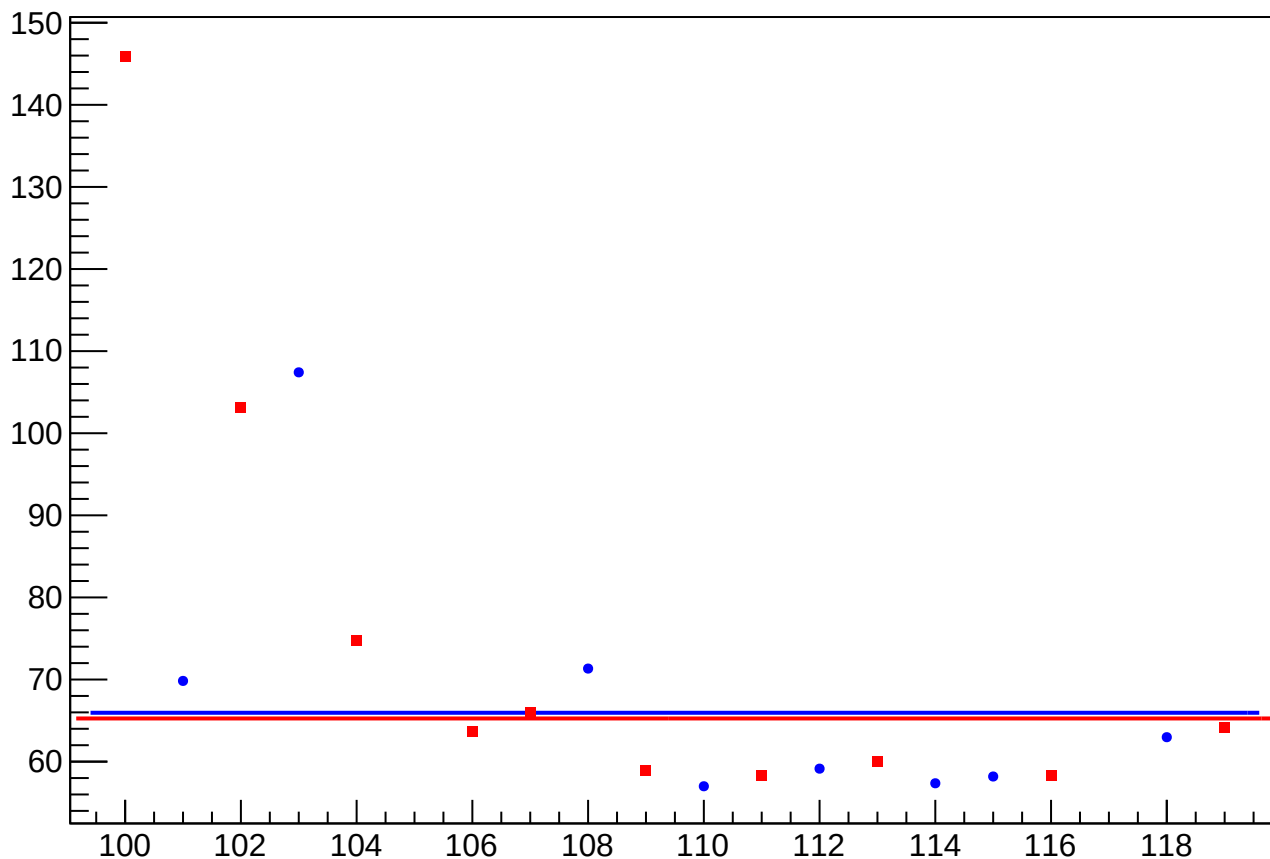
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.539 $\pm$ 24.717  $\chi^2/\text{NDF}$ : 26.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 65.951 $\pm$ 0.026  $\chi^2$ /NDF: 228769.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 65.257 $\pm$ 0.023  $\chi^2$ /NDF: 270885.8/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

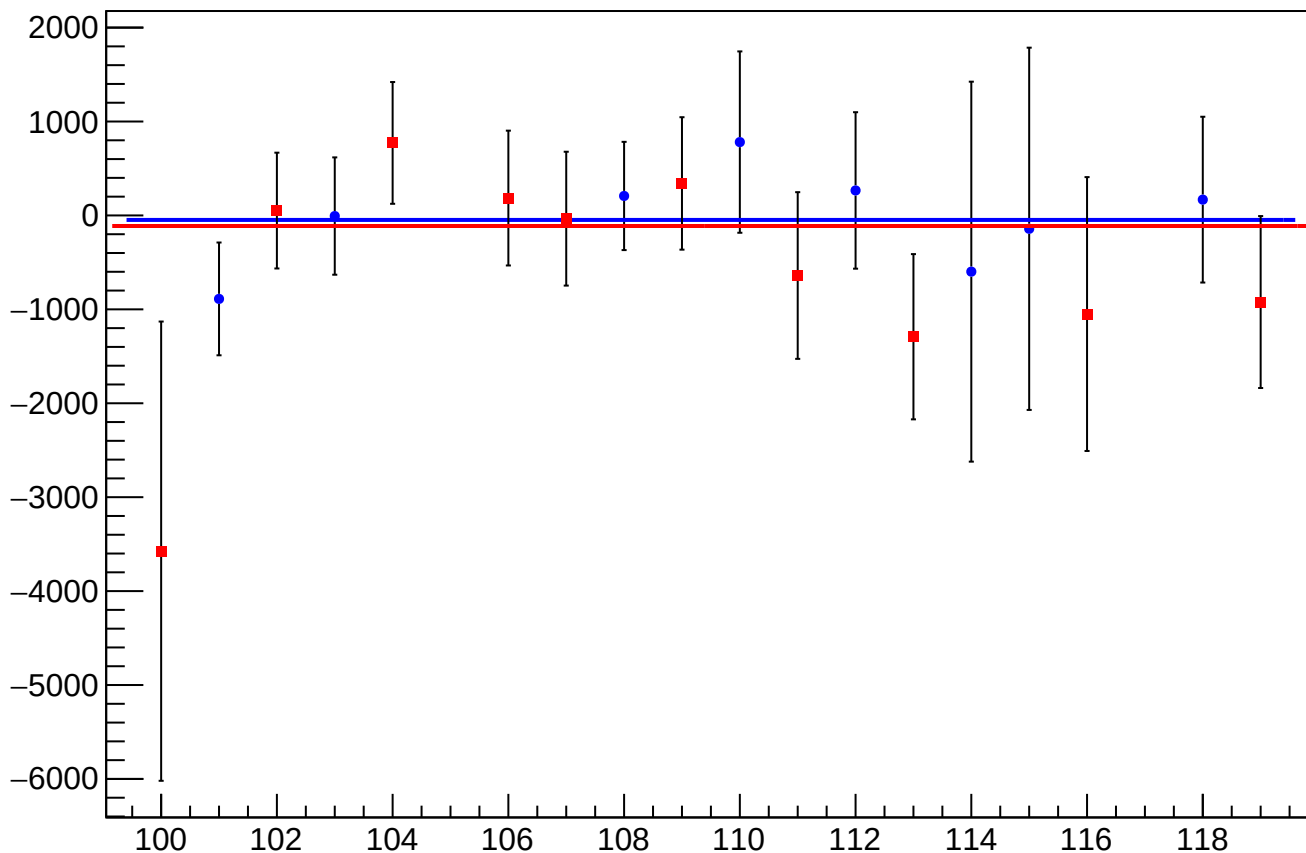
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 65.567 $\pm$ 0.017  $\chi^2$ /NDF: 500045.0/17

- 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: -47.849+/-281.063  $\chi^2/\text{NDF}$ : 3.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -112.467+/-255.446  $\chi^2/\text{NDF}$ : 7.9/9

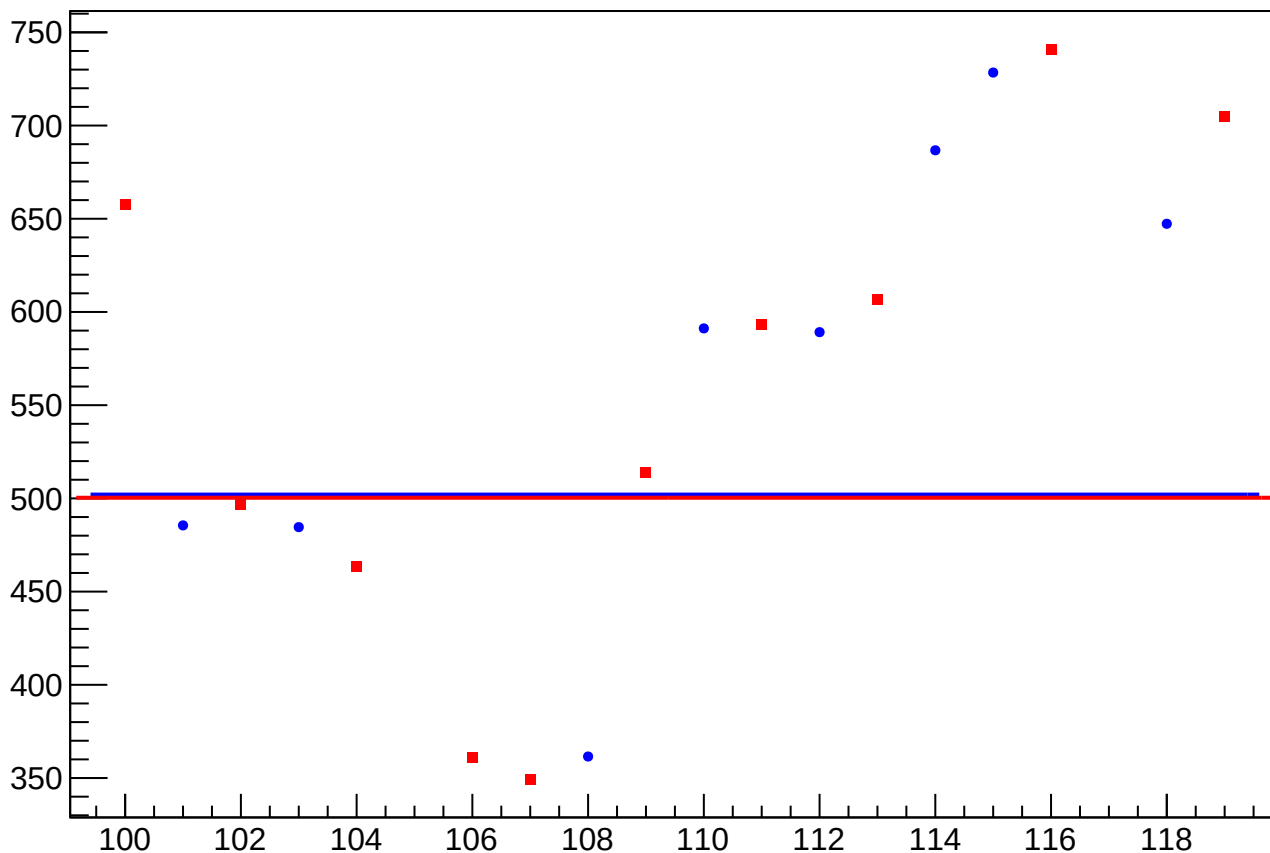
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -83.237+/-189.037  $\chi^2/\text{NDF}$ : 11.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 502.040 $\pm$ 0.199  $\chi^2$ /NDF: 259291.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 500.343 $\pm$ 0.181  $\chi^2$ /NDF: 386362.8/9

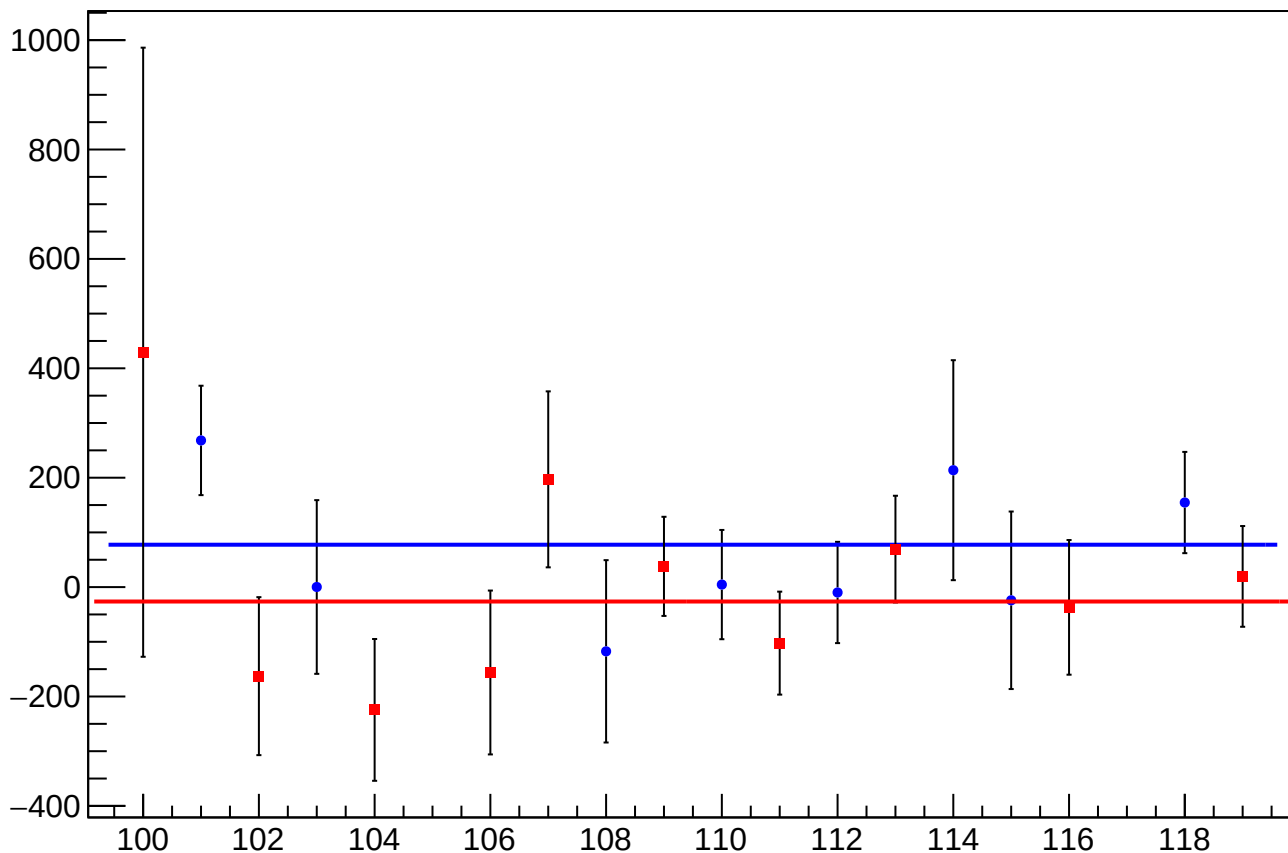
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 501.111 $\pm$ 0.134  $\chi^2$ /NDF: 645694.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 77.492 $\pm$ 41.811  $\chi^2$ /NDF: 8.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -26.349 $\pm$ 37.330  $\chi^2$ /NDF: 9.0/9

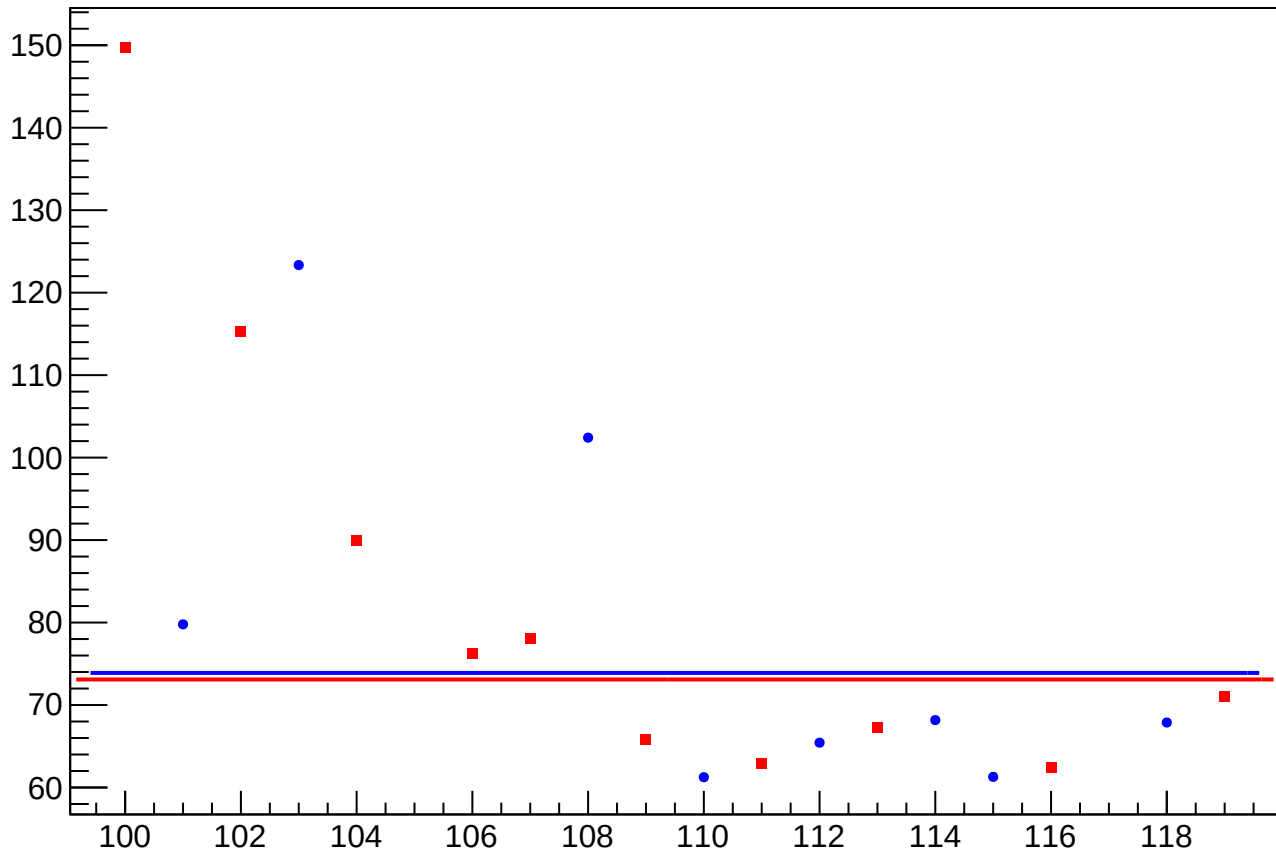
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 19.711 $\pm$ 27.846  $\chi^2$ /NDF: 20.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 73.893+/-0.030  $\chi^2/\text{NDF}$ : 330388.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73.099+/-0.026  $\chi^2/\text{NDF}$ : 304543.5/9

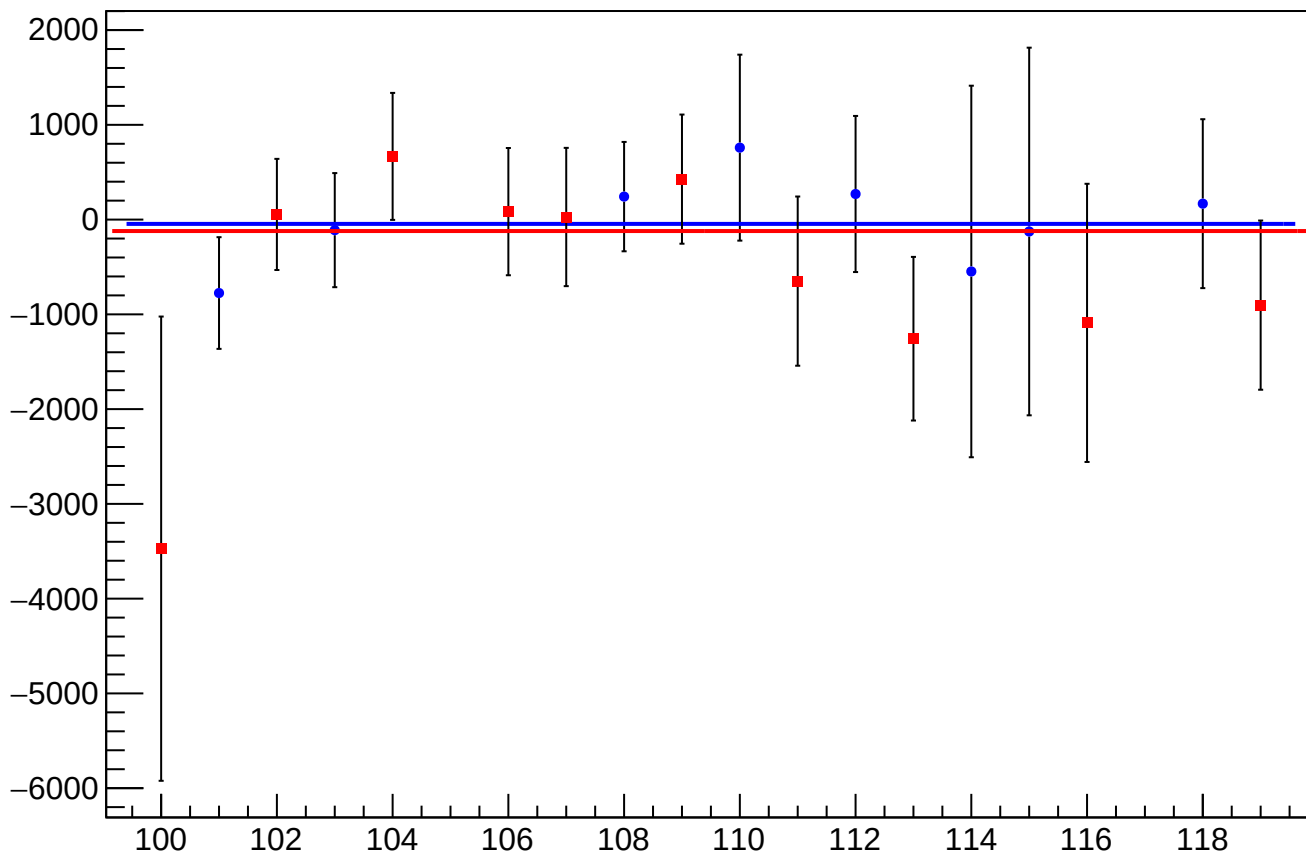
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 73.451+/-0.020  $\chi^2/\text{NDF}$ : 635333.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_dit\_correction\_mean vs Slug



Right In: -45.405 $\pm$ 277.997  $\chi^2$ /NDF: 2.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -120.847 $\pm$ 251.040  $\chi^2$ /NDF: 7.4/9

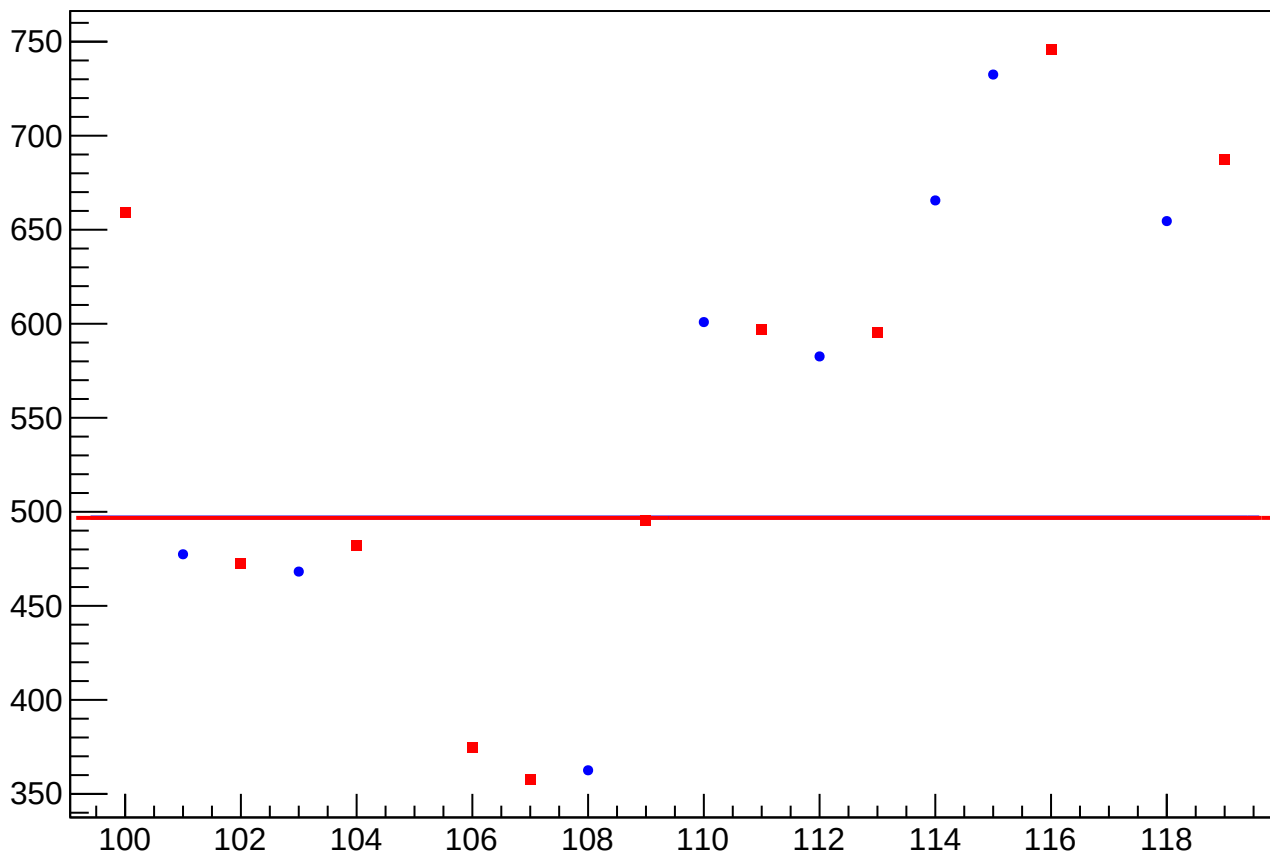
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -86.960 $\pm$ 186.315  $\chi^2$ /NDF: 10.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_13\_57\_dd\_dit\_correction\_rms vs Slug



Right In: 496.955+/-0.197  $\chi^2/\text{NDF}$ : 266193.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 496.773+/-0.178  $\chi^2/\text{NDF}$ : 352249.3/9

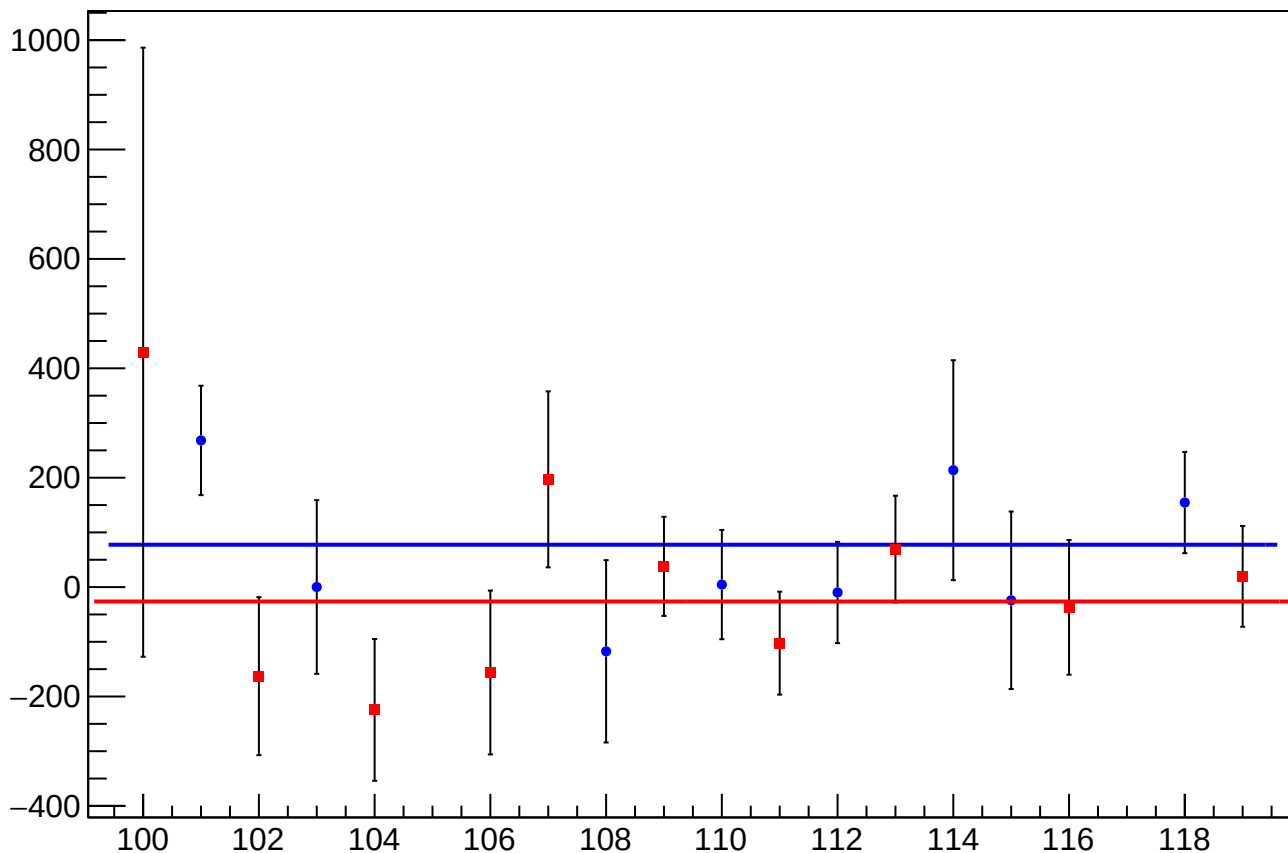
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 496.855+/-0.132  $\chi^2/\text{NDF}$ : 618443.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 77.493 $\pm$ 41.811  $\chi^2$ /NDF: 8.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -26.348 $\pm$ 37.330  $\chi^2$ /NDF: 9.0/9

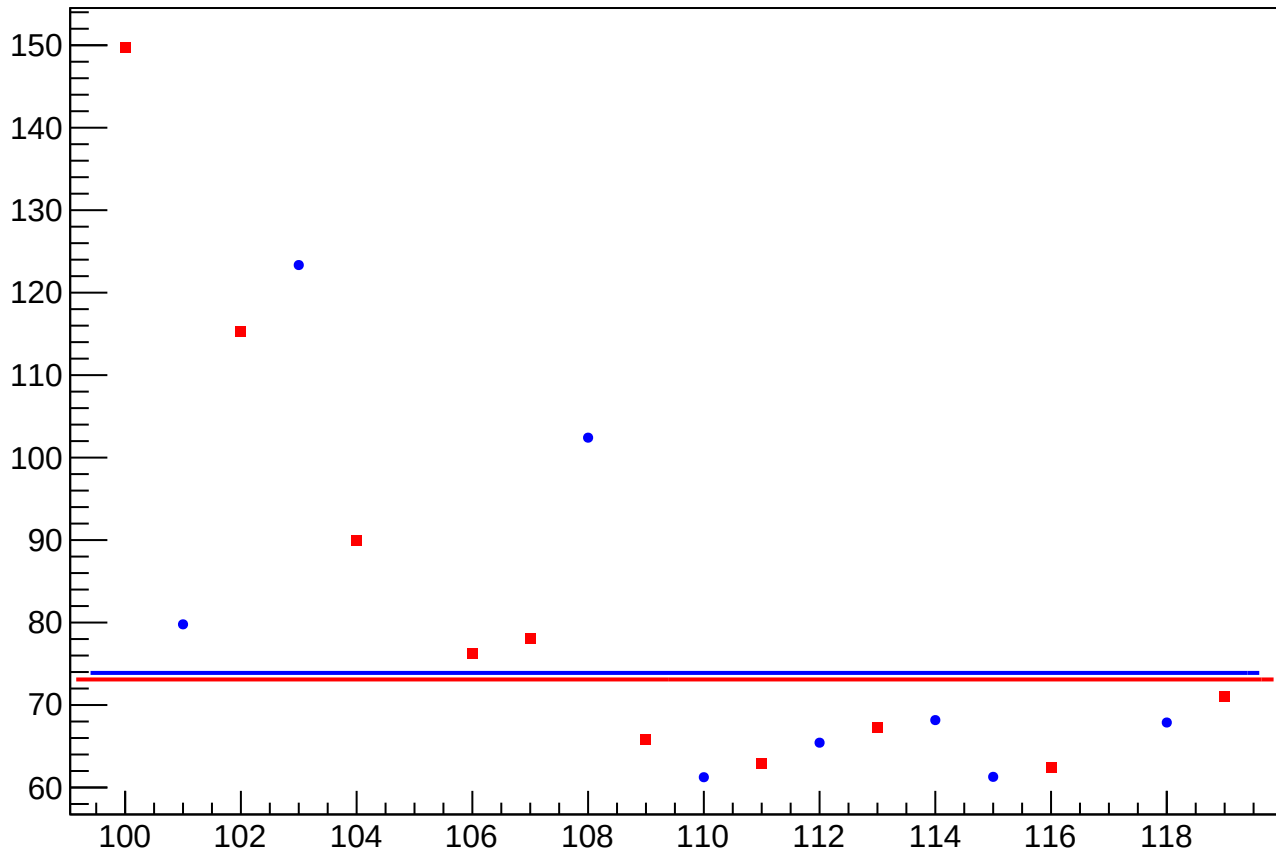
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 19.712 $\pm$ 27.846  $\chi^2$ /NDF: 20.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 73.893+/-0.030  $\chi^2/\text{NDF}$ : 330394.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73.099+/-0.026  $\chi^2/\text{NDF}$ : 304545.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

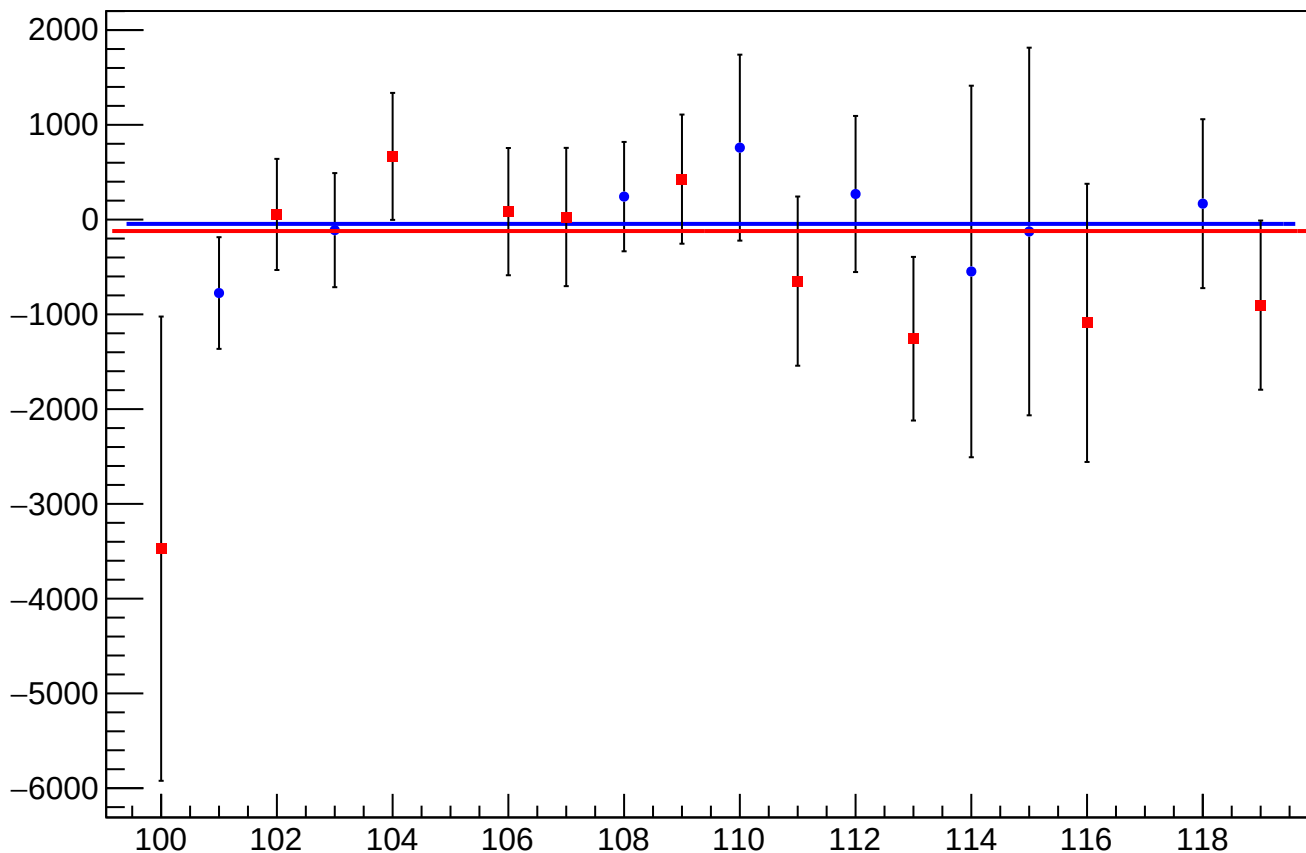
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 73.451+/-0.020  $\chi^2/\text{NDF}$ : 635341.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_13\_57\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In:  $-45.405 \pm 277.996$   $\chi^2/\text{NDF}$ : 2.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-120.846 \pm 251.040$   $\chi^2/\text{NDF}$ : 7.4/9

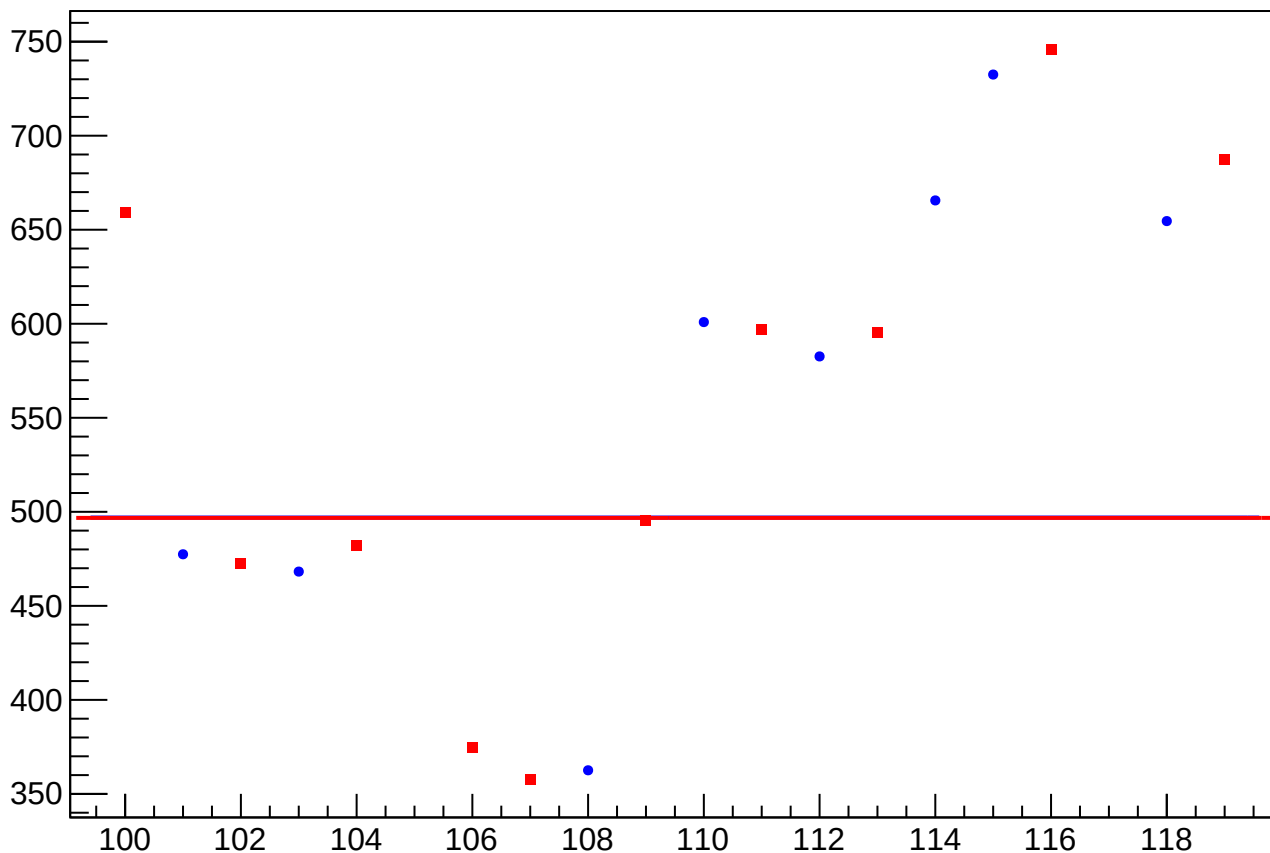
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-86.960 \pm 186.315$   $\chi^2/\text{NDF}$ : 10.2/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 496.954+/-0.197  $\chi^2/\text{NDF}$ : 266196.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 496.772+/-0.178  $\chi^2/\text{NDF}$ : 352251.3/9

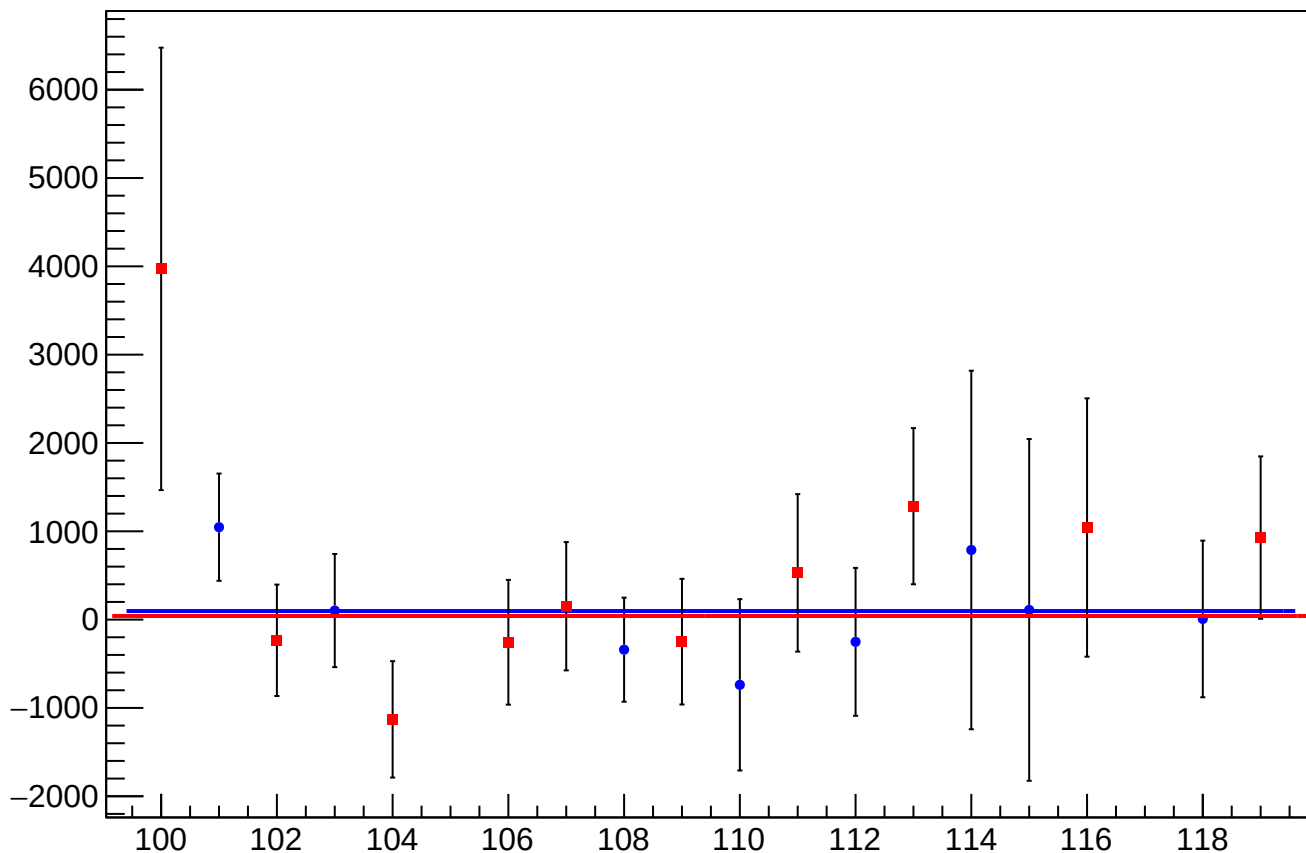
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 496.854+/-0.132  $\chi^2/\text{NDF}$ : 618448.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 96.981 $\pm$ 285.141  $\chi^2$ /NDF: 4.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 41.067 $\pm$ 257.856  $\chi^2$ /NDF: 9.9/9

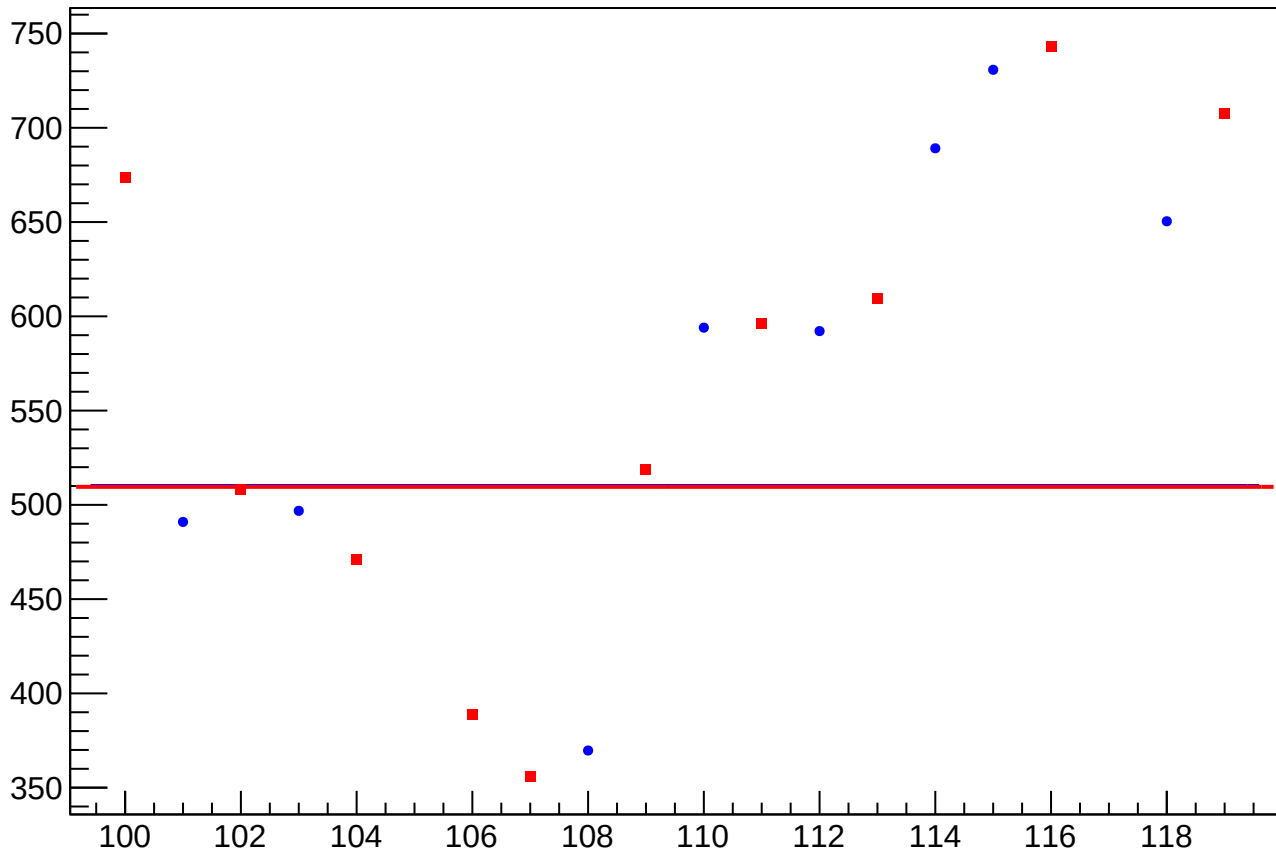
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 66.222 $\pm$ 191.253  $\chi^2$ /NDF: 13.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 509.981 $\pm$ 0.202  $\chi^2$ /NDF: 242174.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 509.561 $\pm$ 0.182  $\chi^2$ /NDF: 352224.6/9

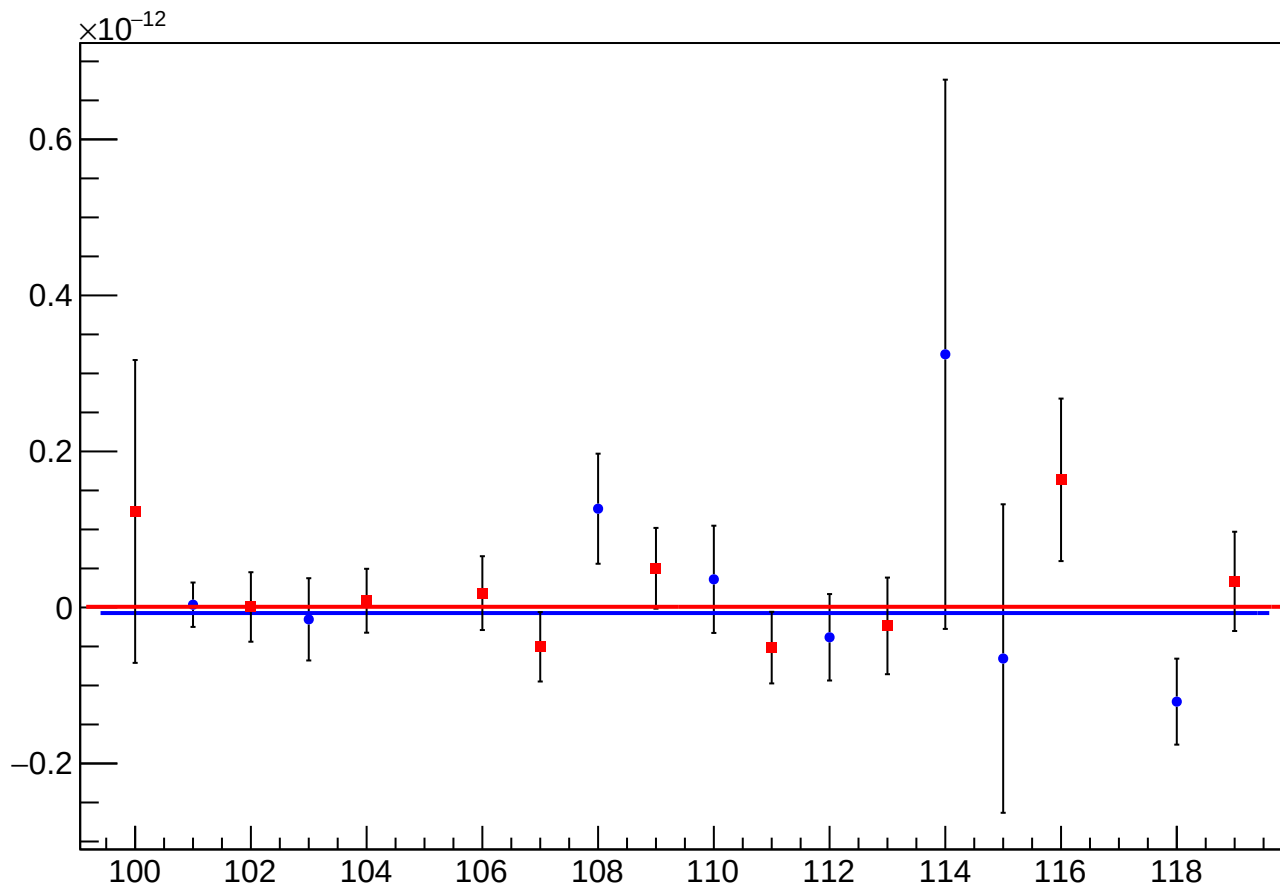
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 509.750 $\pm$ 0.135  $\chi^2$ /NDF: 594401.6/17

- 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: 9.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.0/9

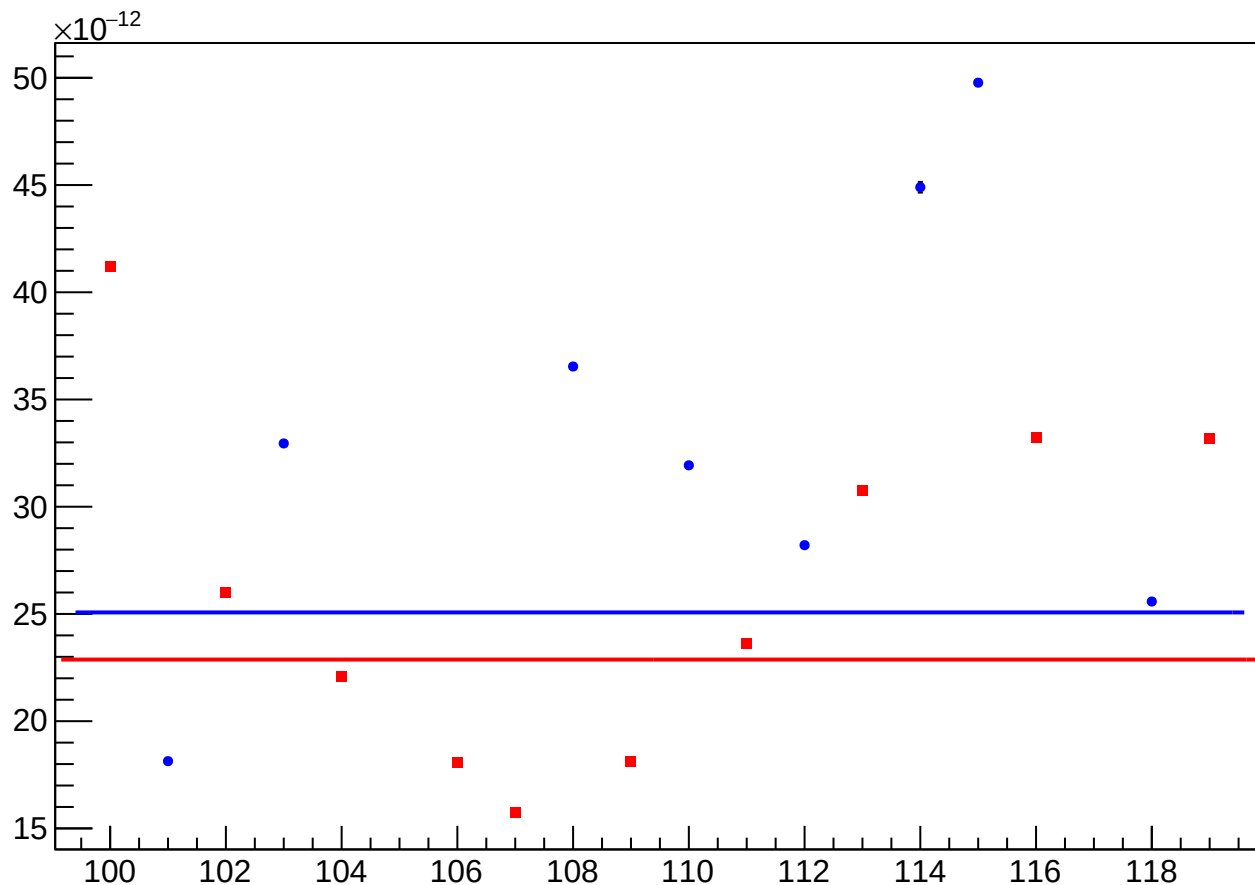
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.8/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 280465.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 222758.8/9

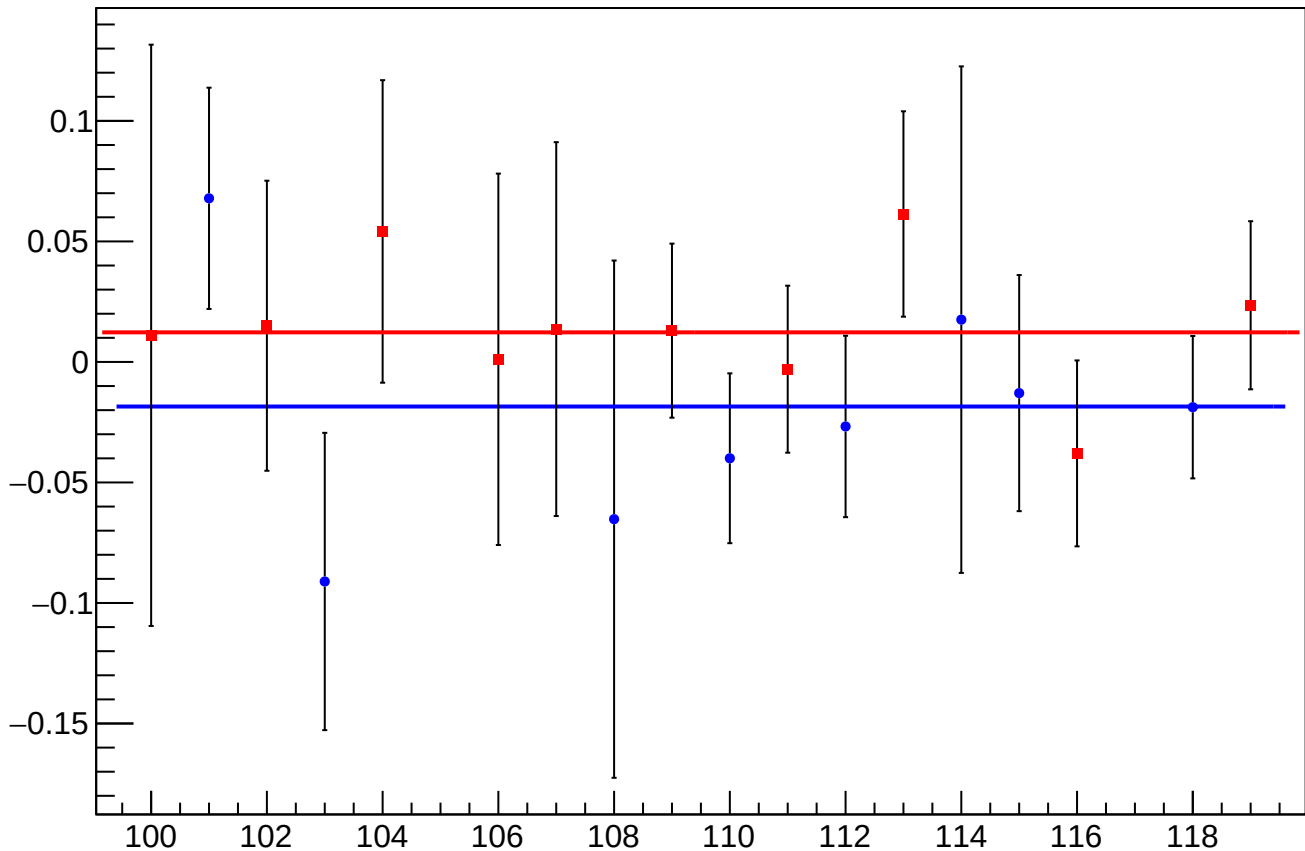
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 517990.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.018 $\pm$ 0.016  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.012 $\pm$ 0.015  $\chi^2$ /NDF: 3.8/9

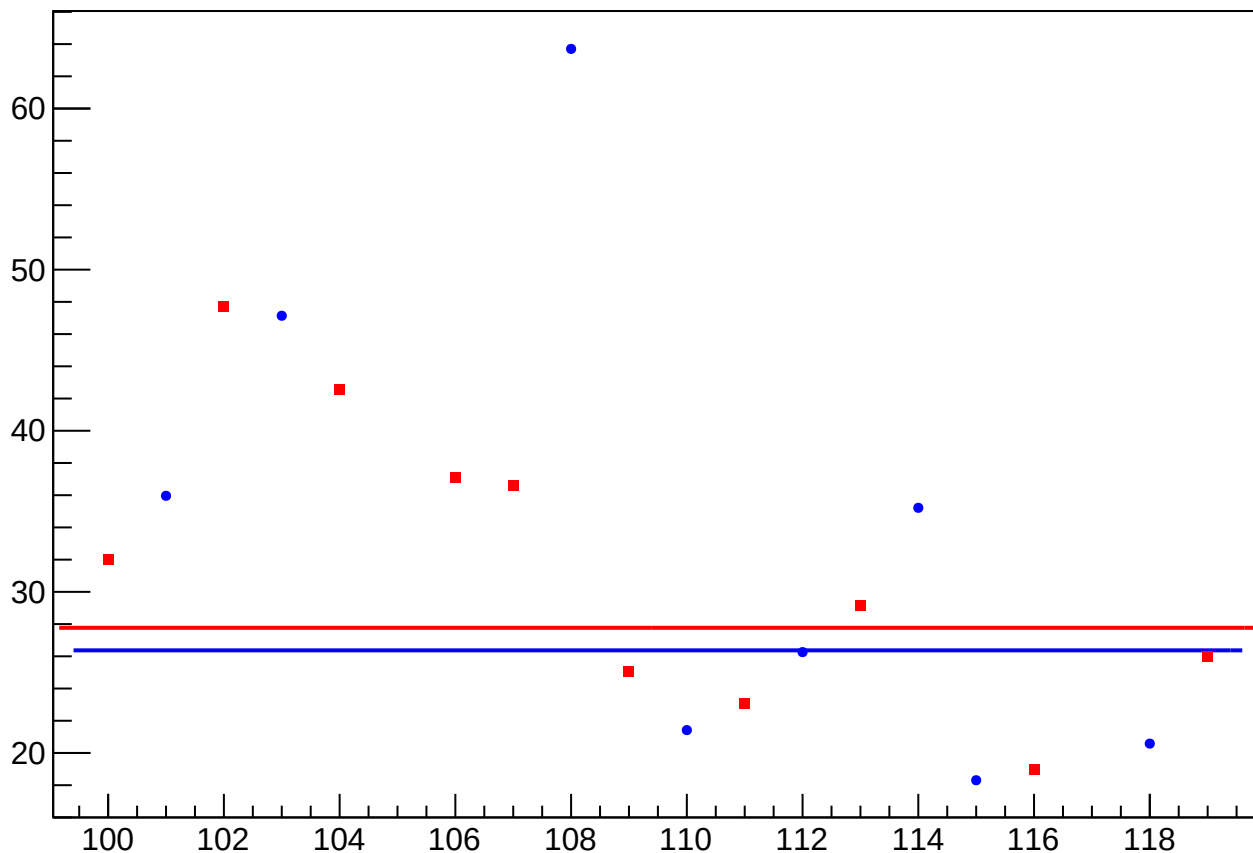
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.002 $\pm$ 0.011  $\chi^2$ /NDF: 11.5/17

- 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: 26.370 $\pm$ 0.011  $\chi^2$ /NDF: 741006.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27.769 $\pm$ 0.010  $\chi^2$ /NDF: 549073.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

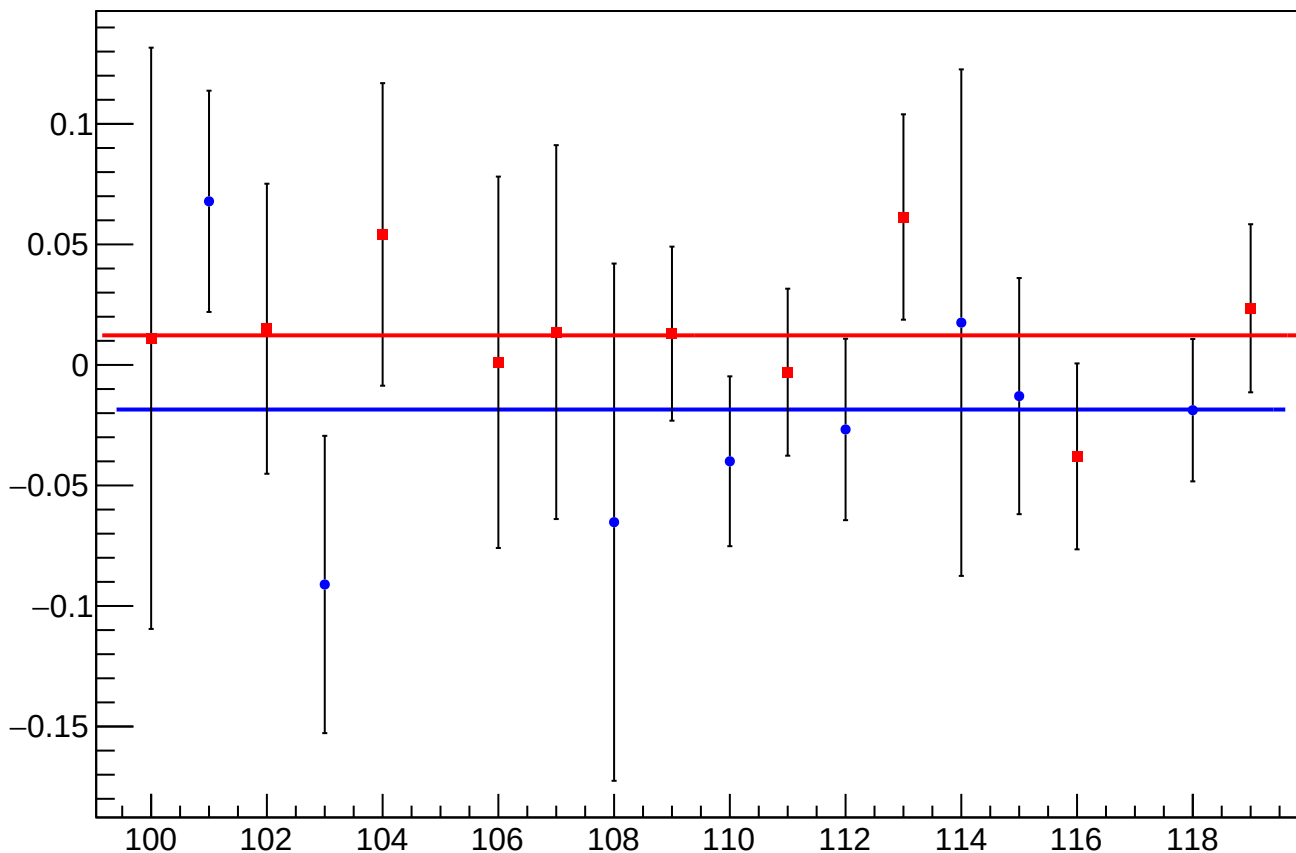
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.118 $\pm$ 0.008  $\chi^2$ /NDF: 1298435.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_13\_57\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.018 $\pm$ 0.016  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.012 $\pm$ 0.015  $\chi^2$ /NDF: 3.8/9

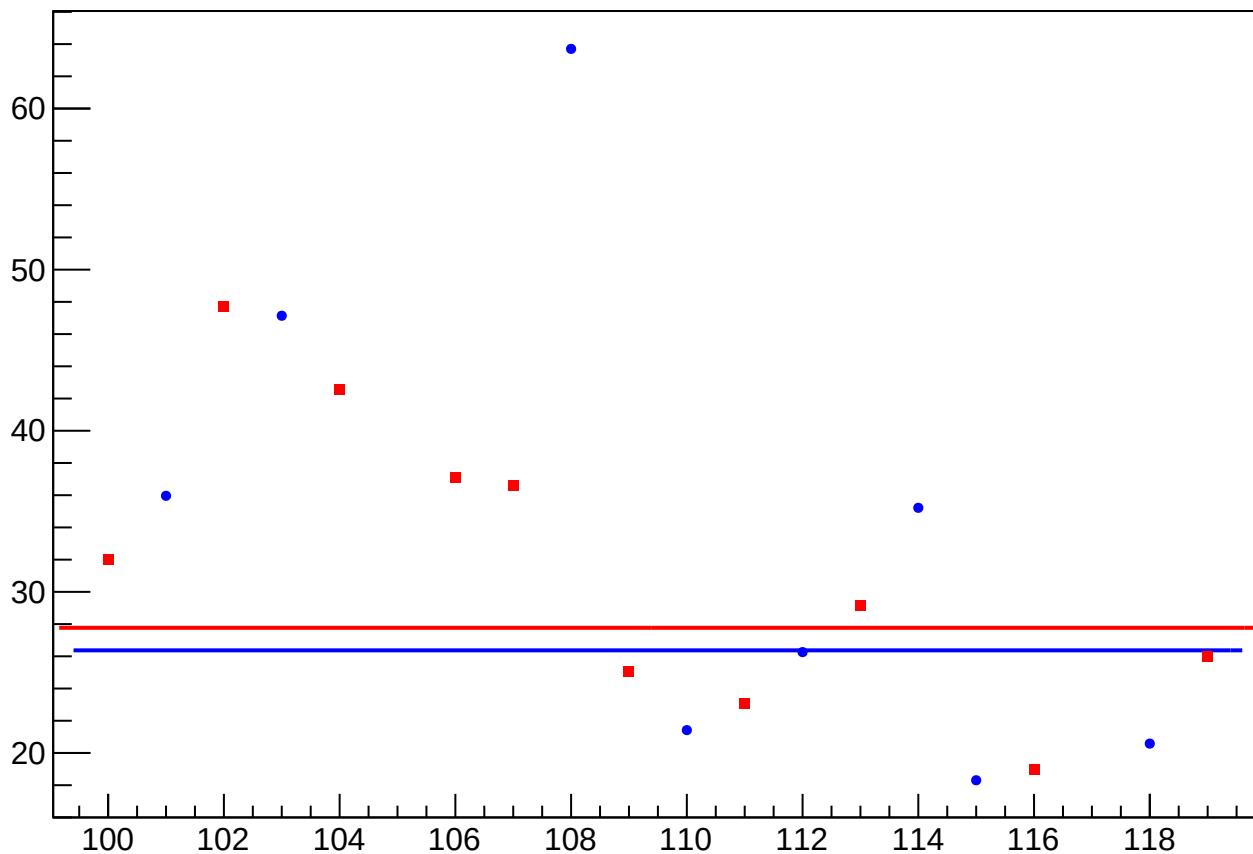
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.002 $\pm$ 0.011  $\chi^2$ /NDF: 11.5/17

- 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: 26.370 $\pm$ 0.011  $\chi^2$ /NDF: 741006.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 27.769 $\pm$ 0.010  $\chi^2$ /NDF: 549073.4/9

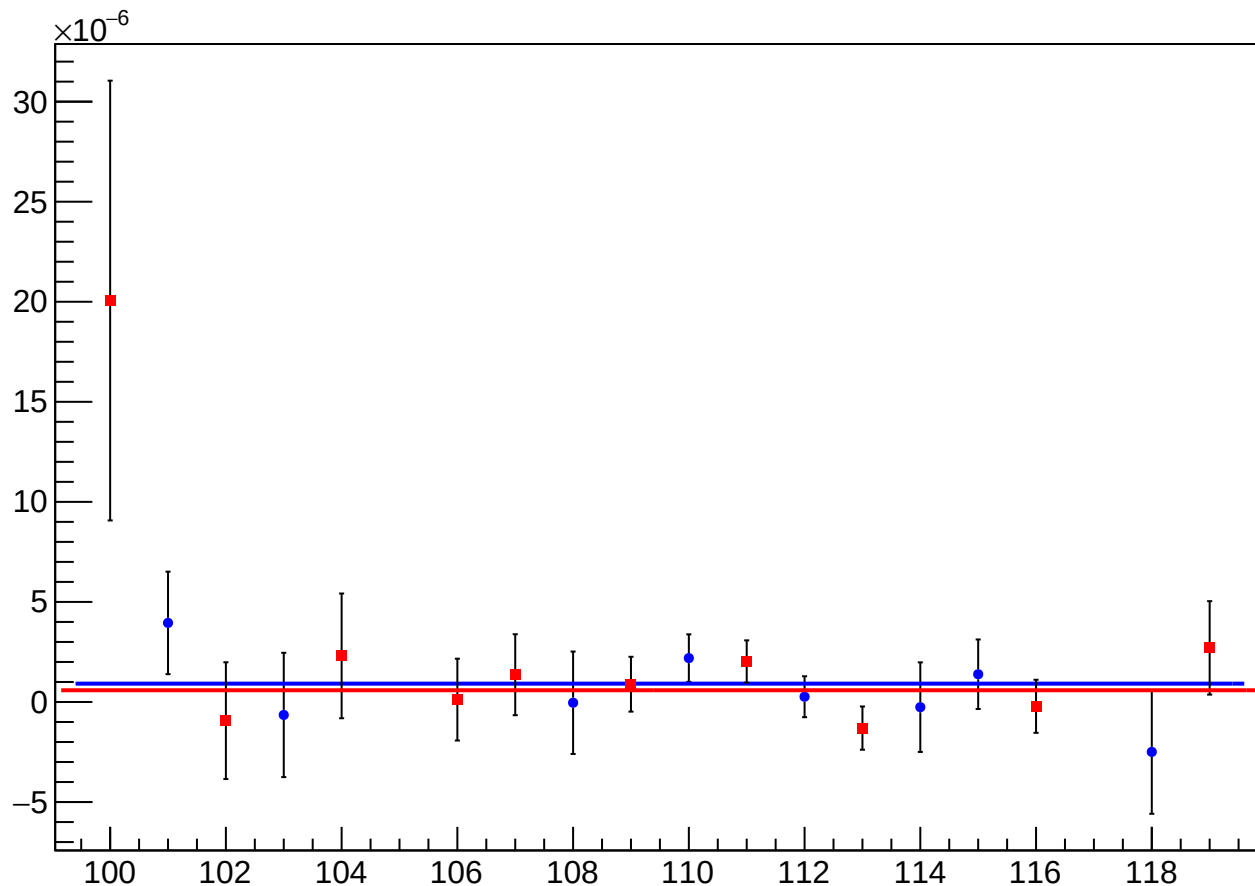
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.118 $\pm$ 0.008  $\chi^2$ /NDF: 1298435.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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: 4.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.1/9

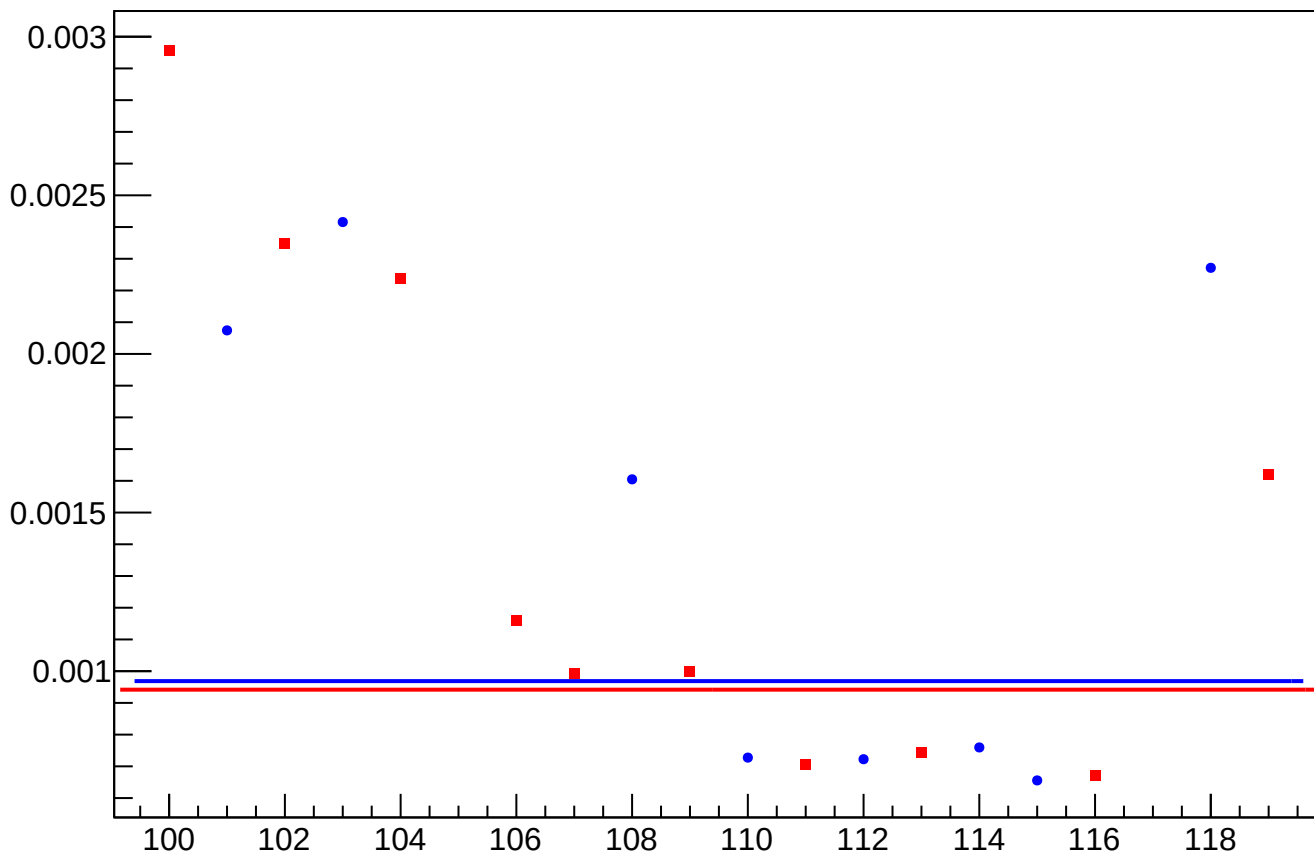
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.2/17

- 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  $\chi^2/\text{NDF}$ : 1566000.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1324977.2/9

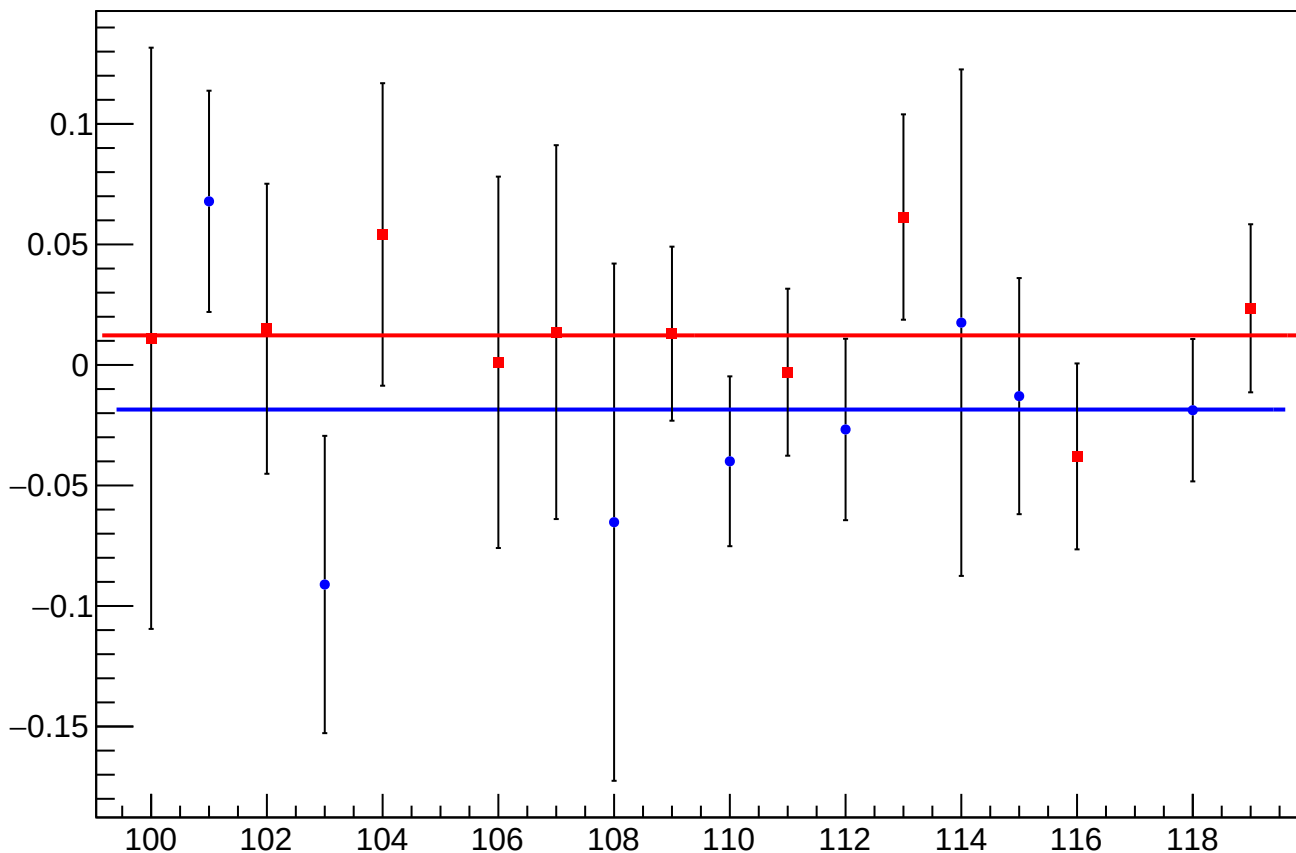
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2893271.1/17

- 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: -0.018 $\pm$ 0.016  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.012 $\pm$ 0.015  $\chi^2$ /NDF: 3.8/9

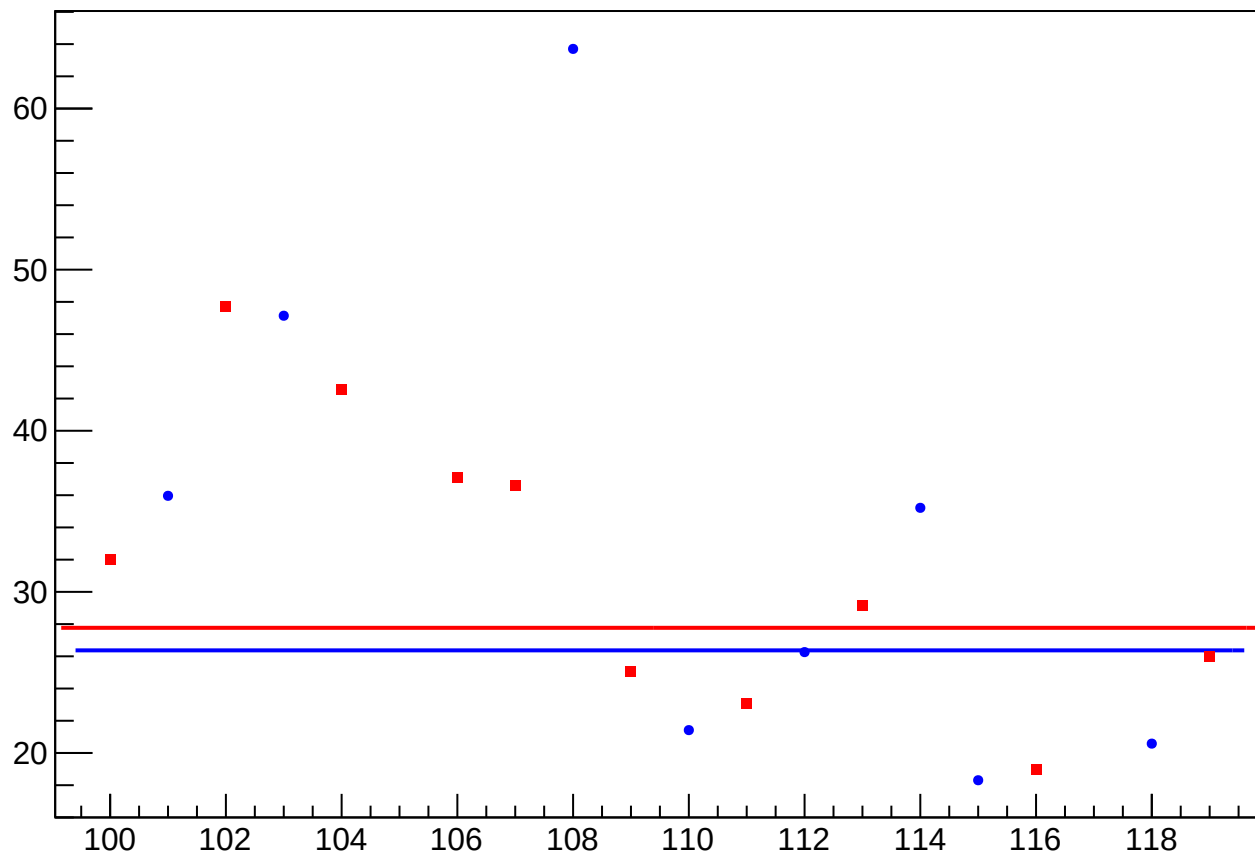
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.002 $\pm$ 0.011  $\chi^2$ /NDF: 11.5/17

- 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: 26.369+/-0.011  $\chi^2/\text{NDF}$ : 741070.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27.769+/-0.010  $\chi^2/\text{NDF}$ : 549091.4/9

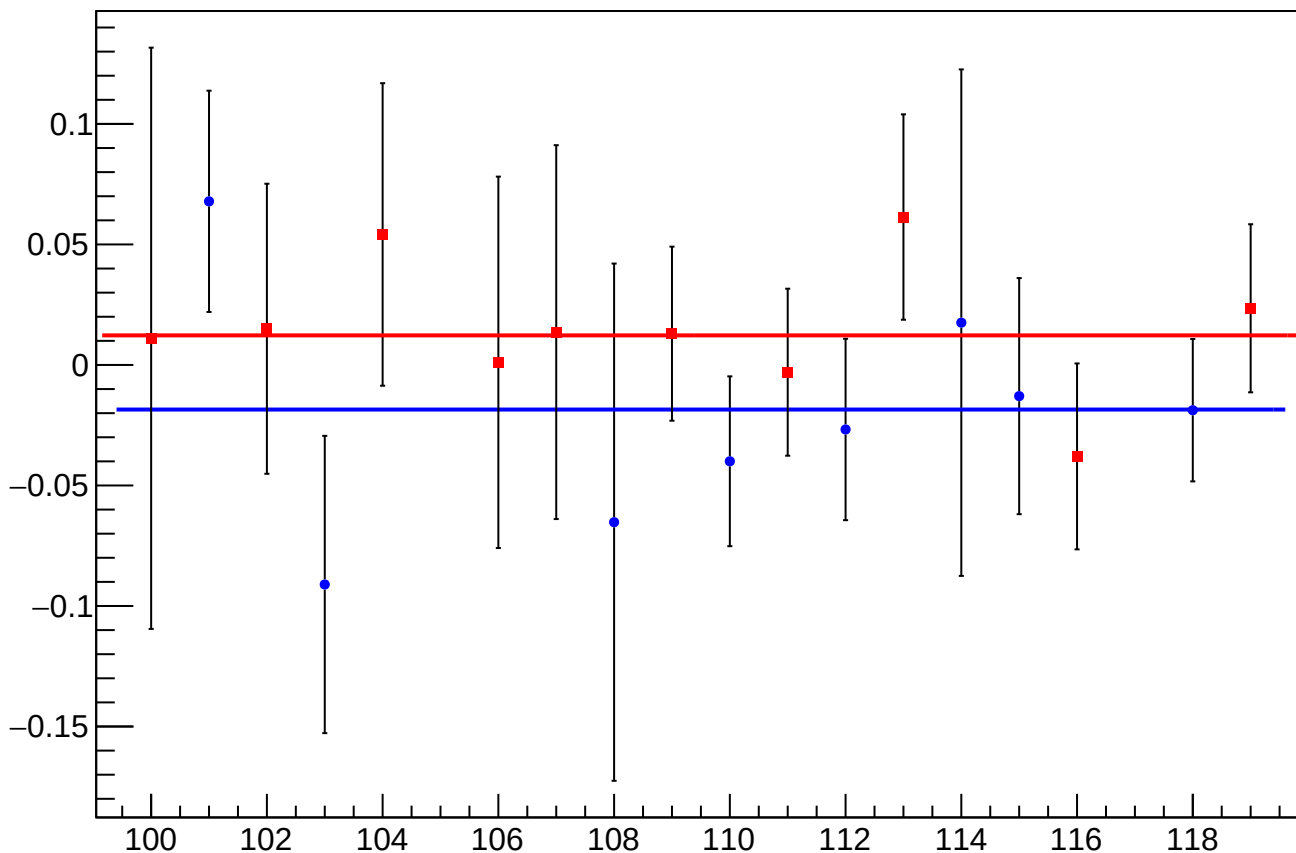
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.117+/-0.008  $\chi^2/\text{NDF}$ : 1298518.4/17

- 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: -0.018 $\pm$ 0.016  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.012 $\pm$ 0.015  $\chi^2$ /NDF: 3.8/9

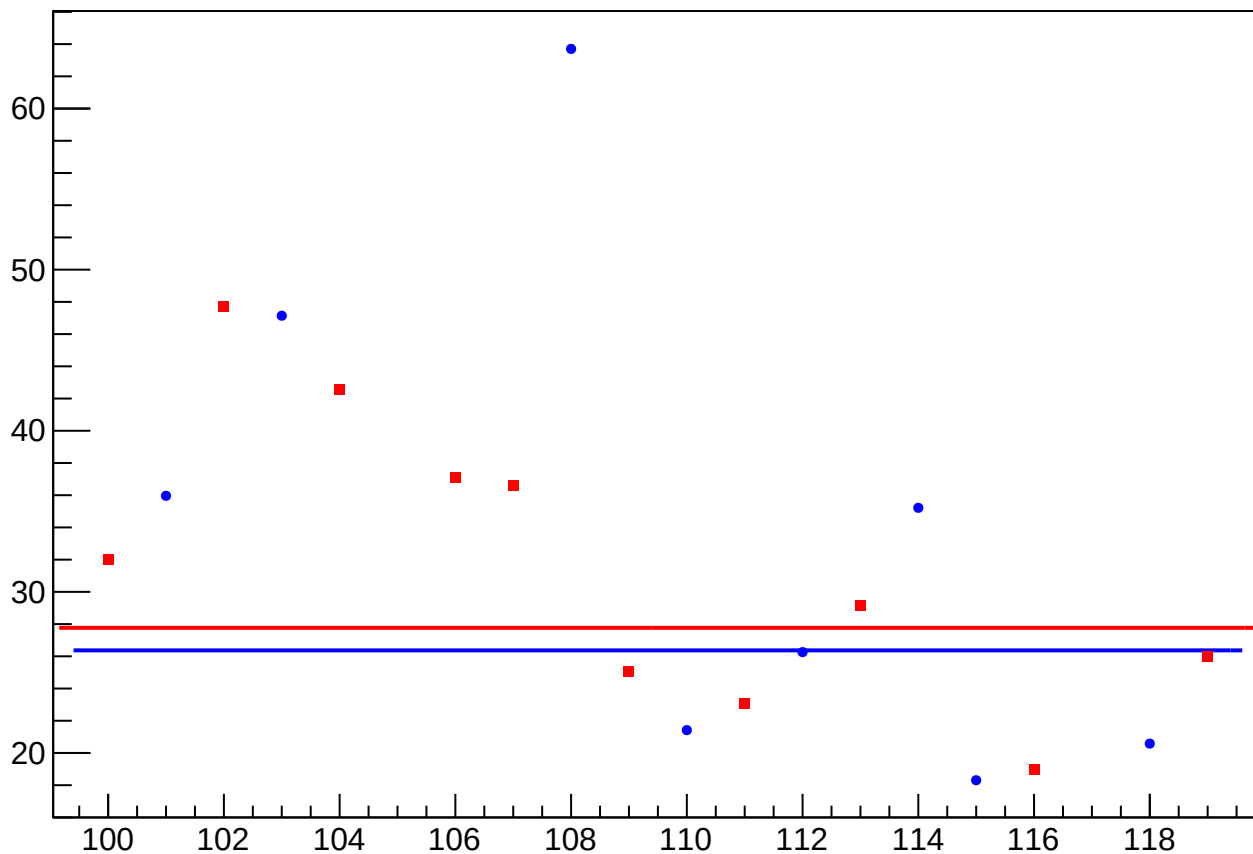
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.002 $\pm$ 0.011  $\chi^2$ /NDF: 11.5/17

- 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: 26.369+/-0.011  $\chi^2/\text{NDF}$ : 741070.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27.769+/-0.010  $\chi^2/\text{NDF}$ : 549091.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

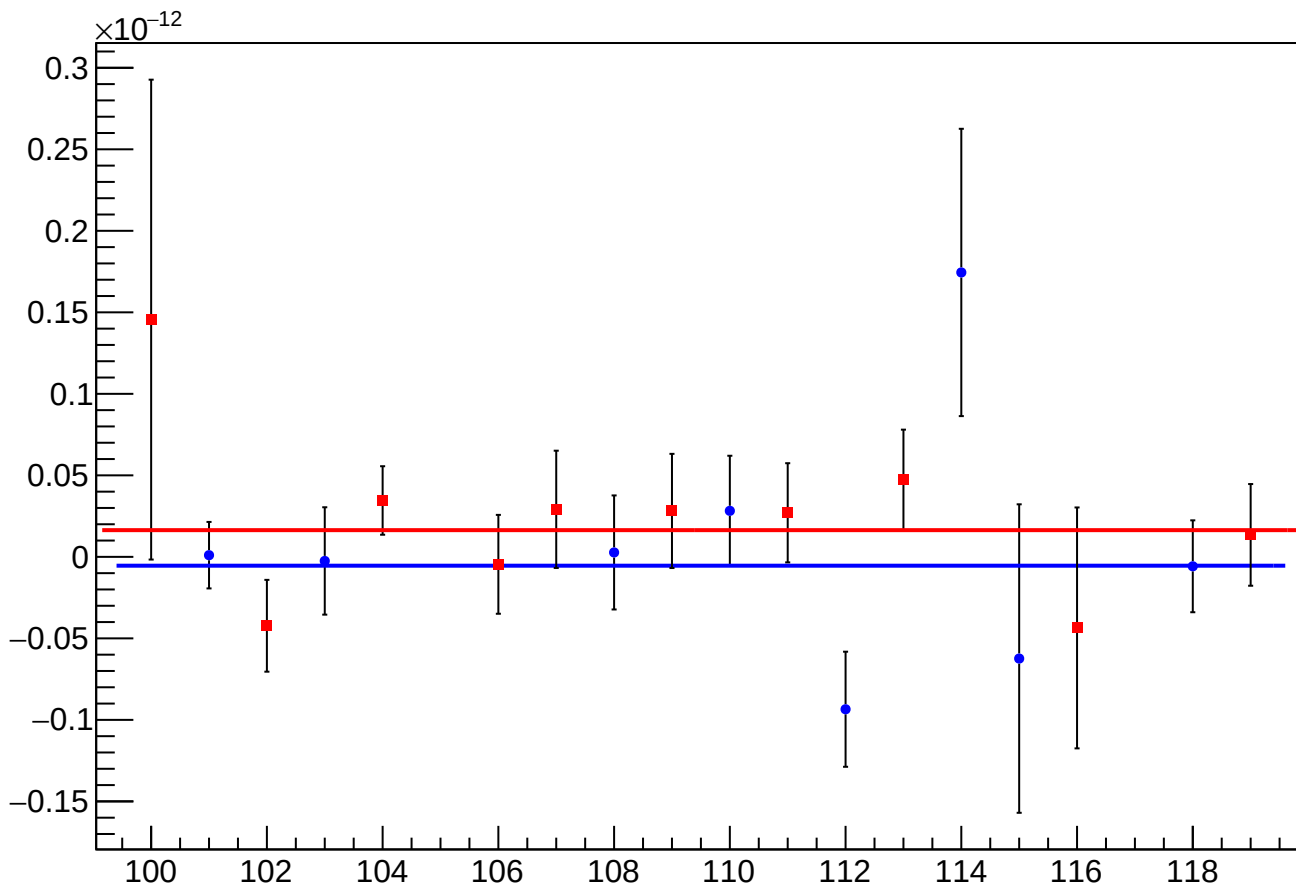
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.117+/-0.008  $\chi^2/\text{NDF}$ : 1298518.4/17

- 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: 11.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.4/9

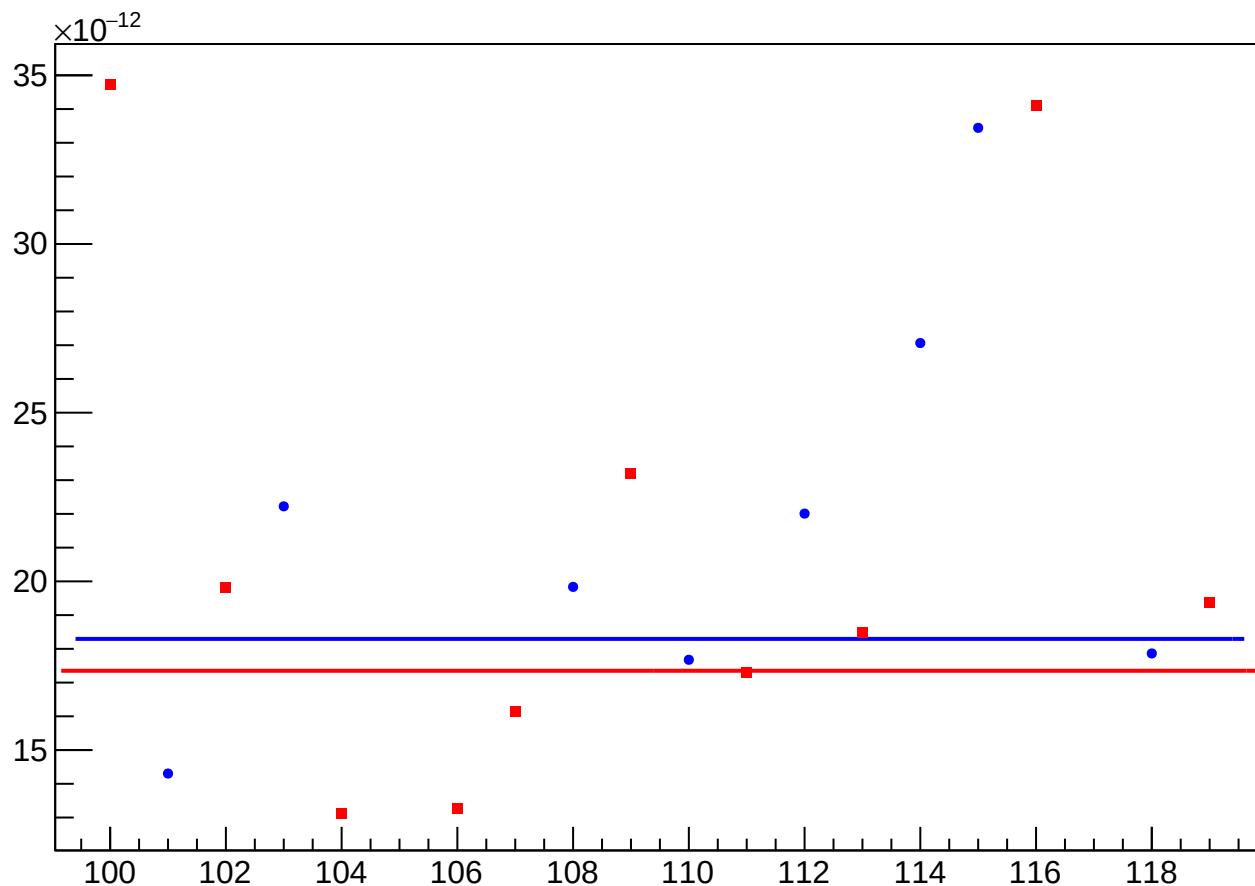
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 22.2/17

- 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  $\chi^2/\text{NDF}$ : 203307.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 332159.1/9

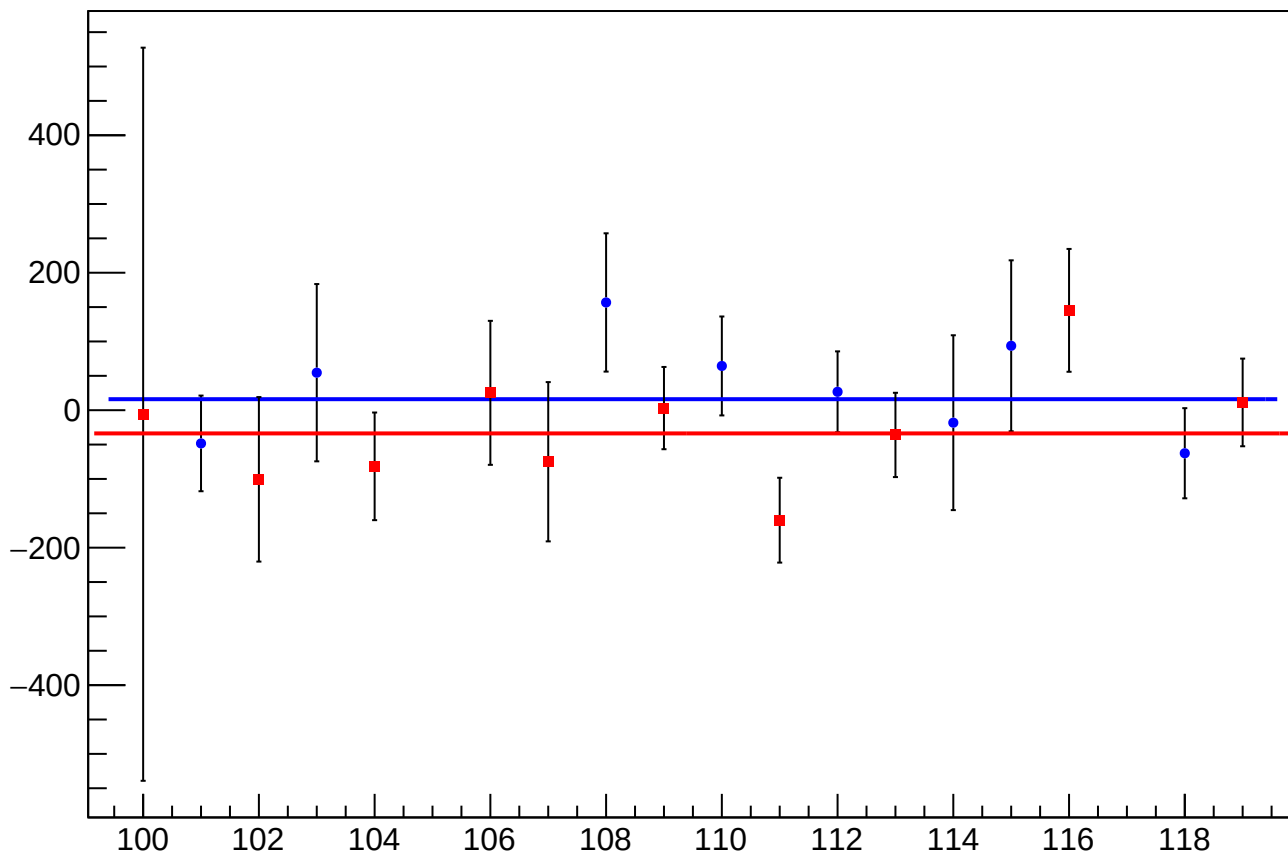
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 542874.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 16.019+/-28.789  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -33.771+/-25.149  $\chi^2/\text{NDF}$ : 10.2/9

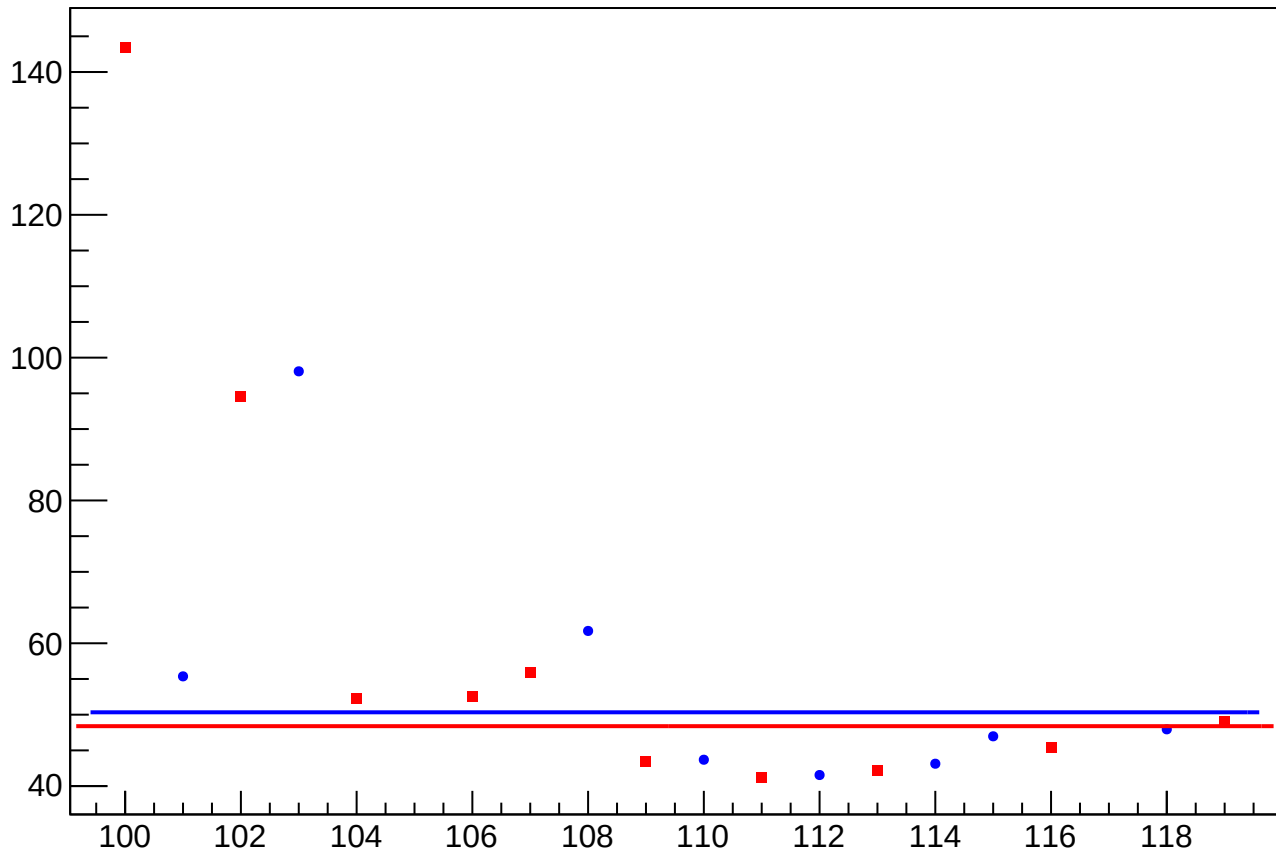
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12.221+/-18.940  $\chi^2/\text{NDF}$ : 17.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 50.333+/-0.020  $\chi^2/\text{NDF}$ : 382427.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.391+/-0.018  $\chi^2/\text{NDF}$ : 440673.8/9

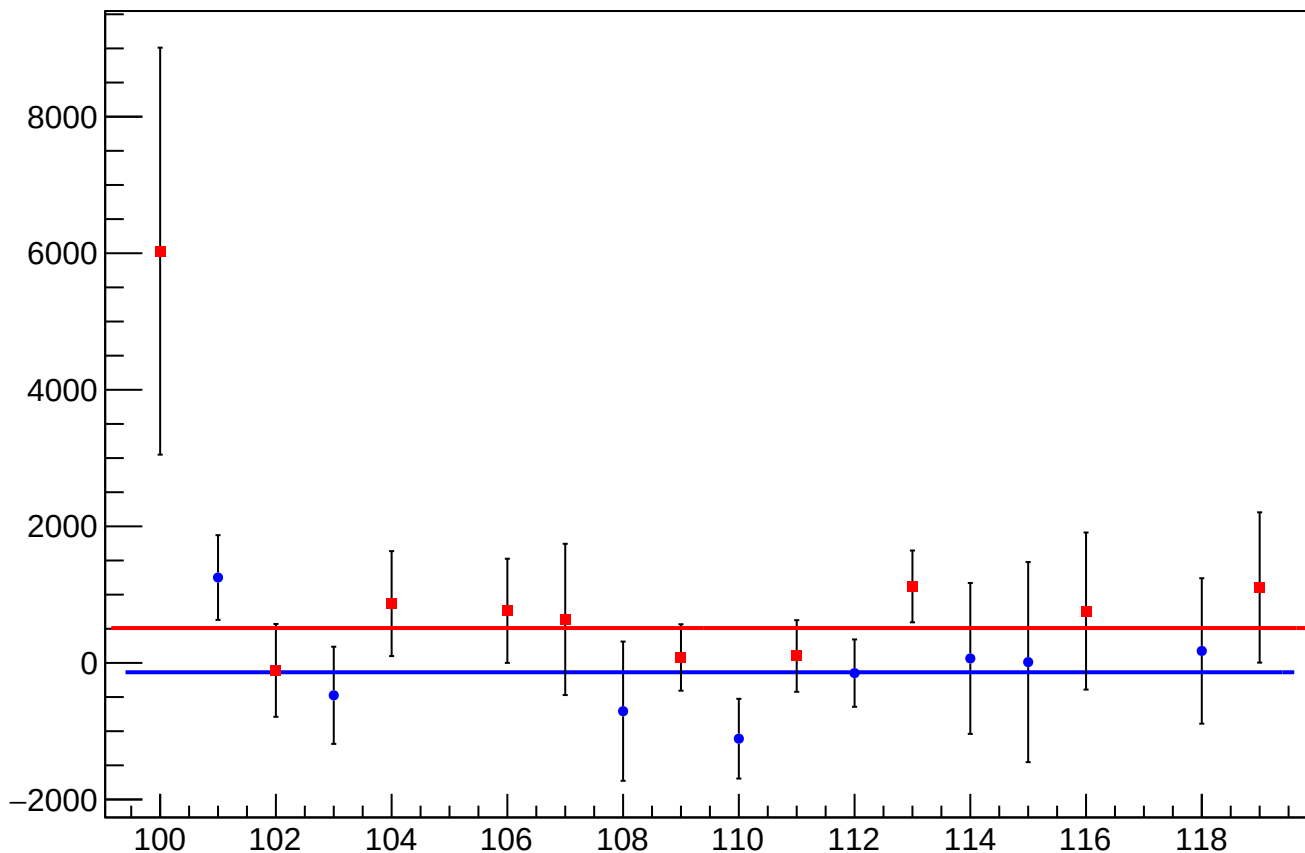
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.232+/-0.013  $\chi^2/\text{NDF}$ : 828261.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_reg\_correction\_mean vs Slug



Right In: -136.958+/-260.388  $\chi^2/\text{NDF}$ : 8.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 510.670+/-226.110  $\chi^2/\text{NDF}$ : 7.7/9

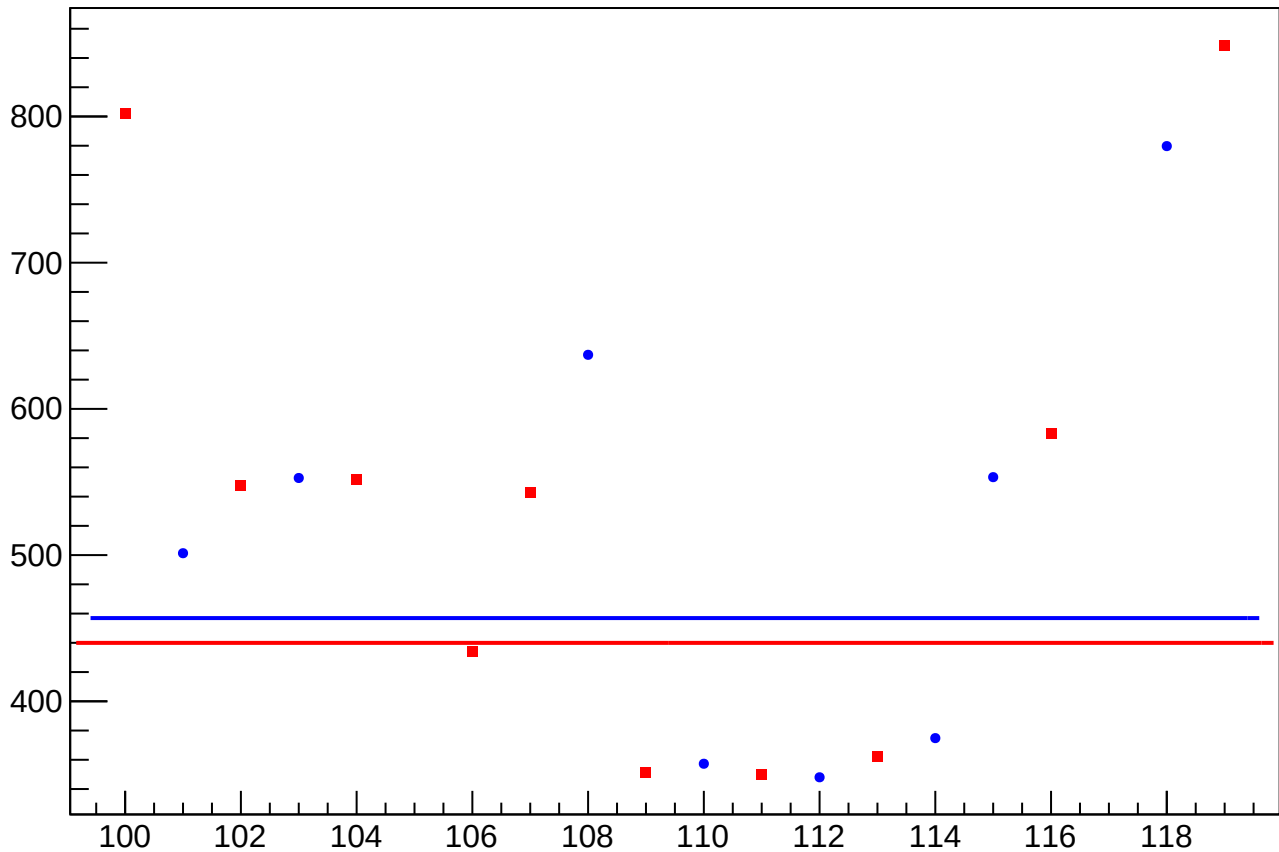
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 232.263+/-170.726  $\chi^2/\text{NDF}$ : 19.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_reg\_correction\_rms vs Slug



Right In: 456.921+/-0.184  $\chi^2/\text{NDF}$ : 468064.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 439.960+/-0.160  $\chi^2/\text{NDF}$ : 614296.3/9

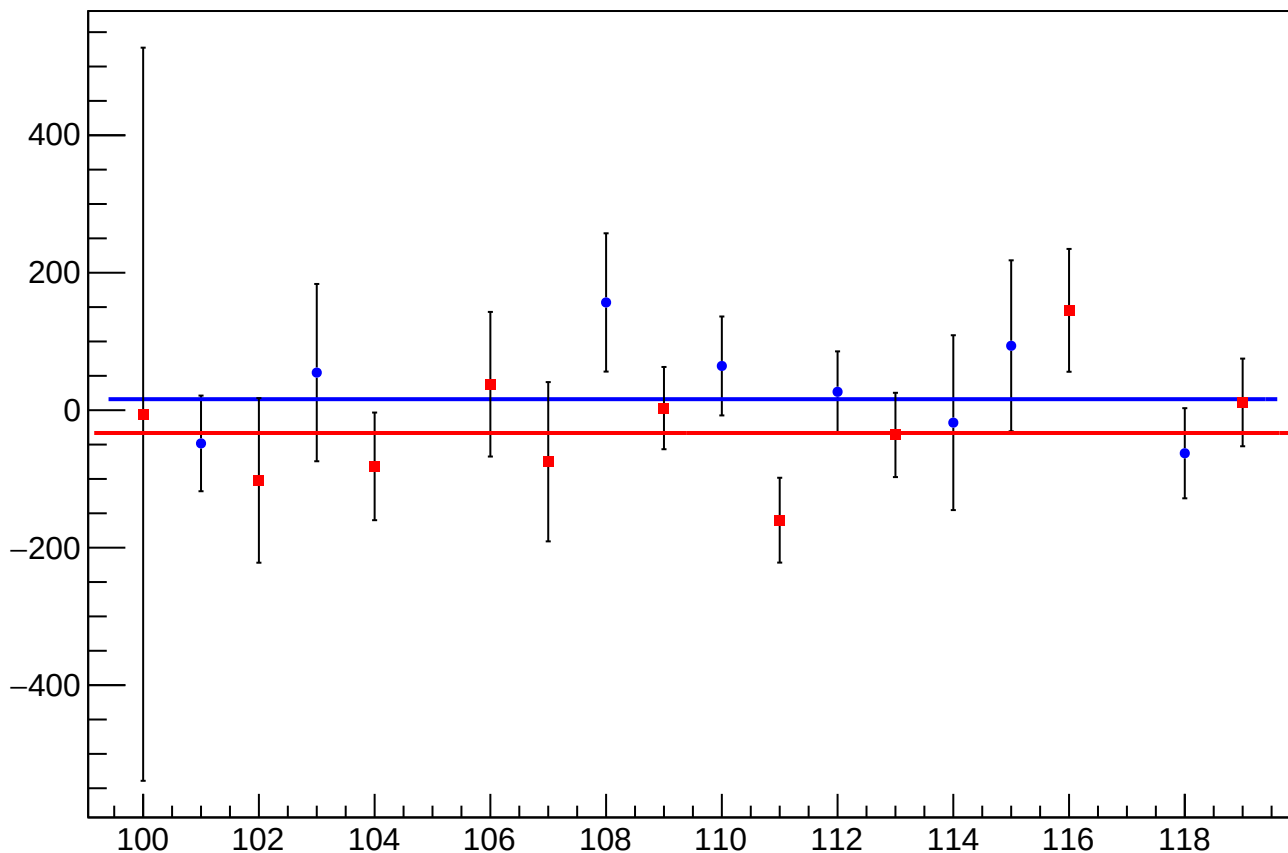
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 447.251+/-0.121  $\chi^2/\text{NDF}$ : 1087198.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 16.033+/-28.789  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -33.155+/-25.156  $\chi^2/\text{NDF}$ : 10.4/9

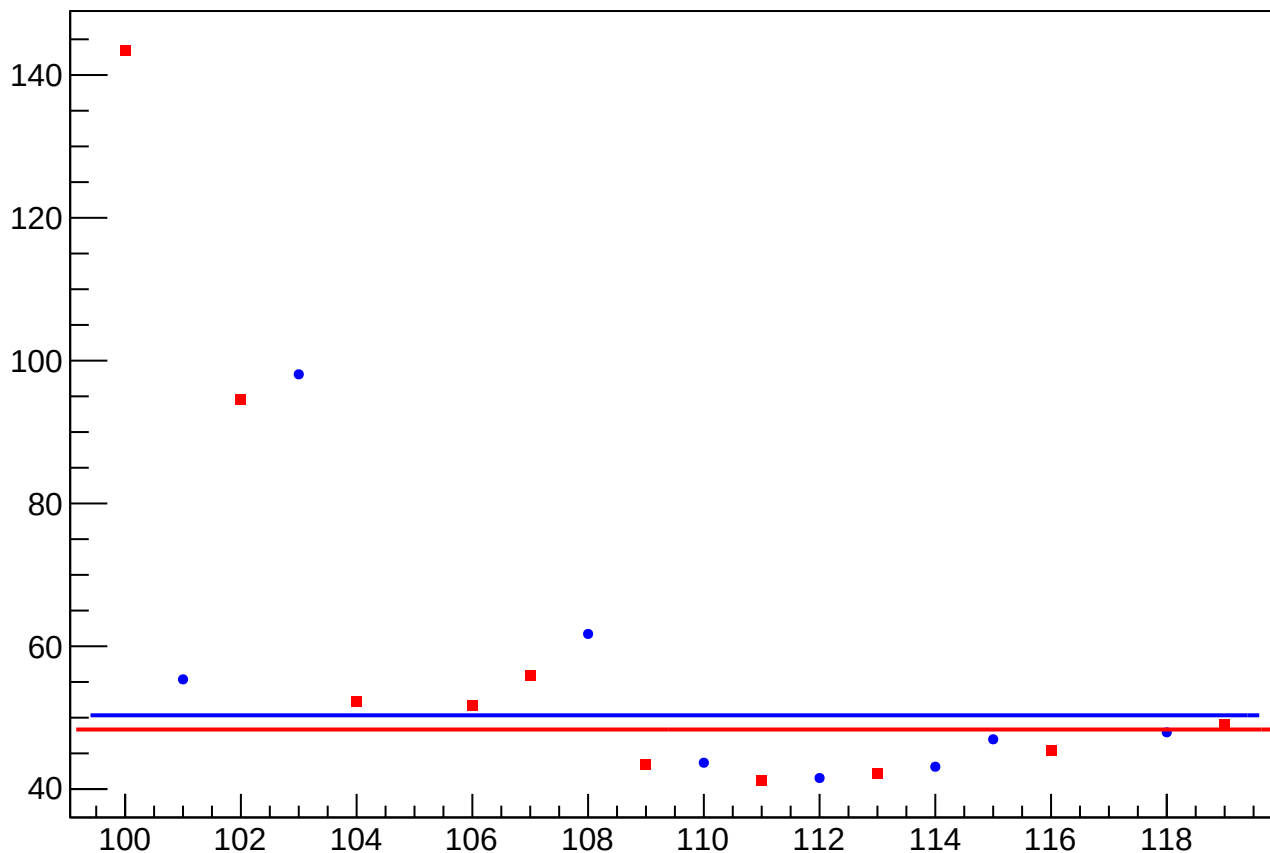
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -11.859+/-18.943  $\chi^2/\text{NDF}$ : 17.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 50.333+/-0.020  $\chi^2/\text{NDF}$ : 382430.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.342+/-0.018  $\chi^2/\text{NDF}$ : 439779.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

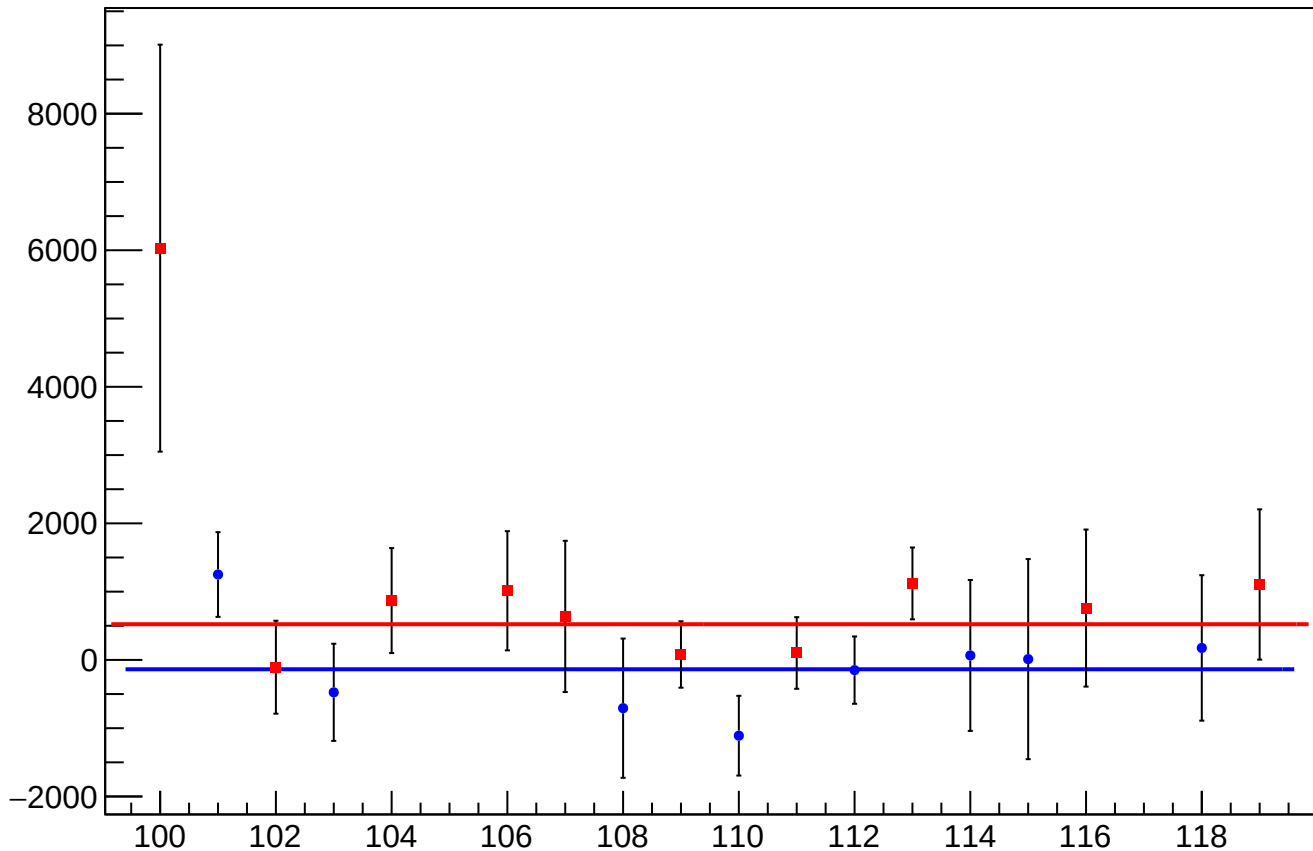
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.204+/-0.013  $\chi^2/\text{NDF}$ : 827632.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_15\_37\_dd\_cor\_correction\_mean vs Slug



Right In: -136.957+/-260.392  $\chi^2/\text{NDF}$ : 8.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 522.845+/-228.516  $\chi^2/\text{NDF}$ : 7.9/9

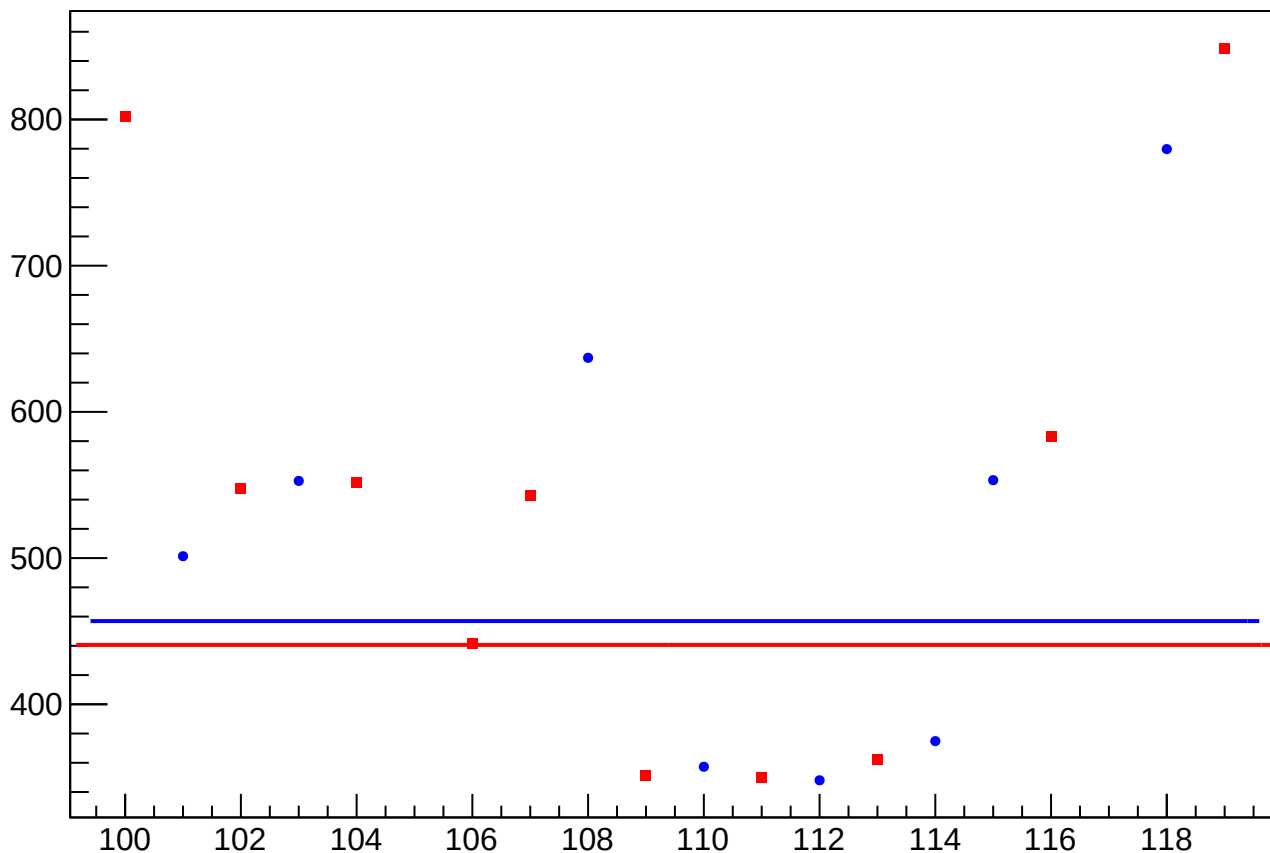
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 235.780+/-171.755  $\chi^2/\text{NDF}$ : 20.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_cor\_correction\_rms vs Slug



Right In: 456.925+/-0.184  $\chi^2/\text{NDF}$ : 468099.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 440.611+/-0.162  $\chi^2/\text{NDF}$ : 614468.2/9

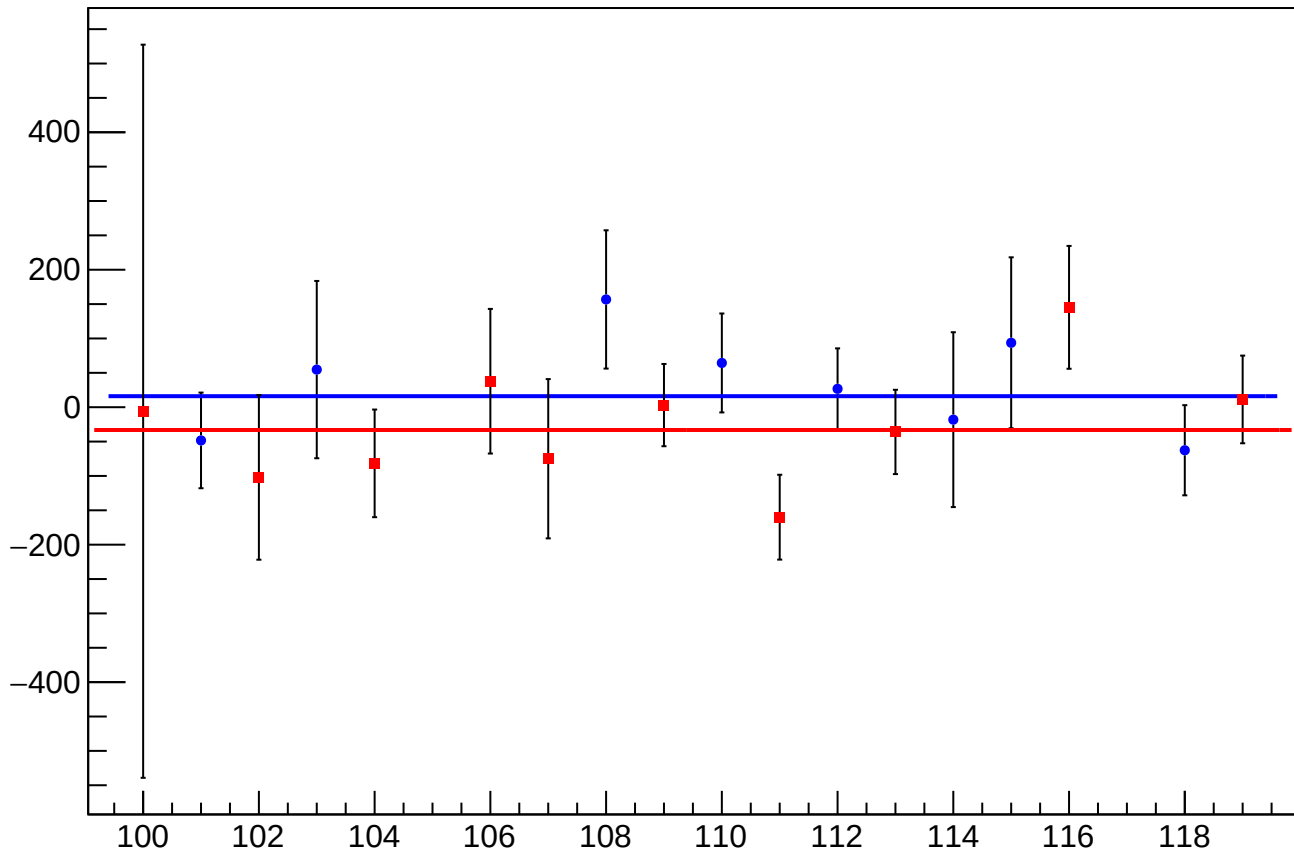
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 447.709+/-0.121  $\chi^2/\text{NDF}$ : 1087002.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 16.033+/-28.789  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -33.155+/-25.156  $\chi^2/\text{NDF}$ : 10.4/9

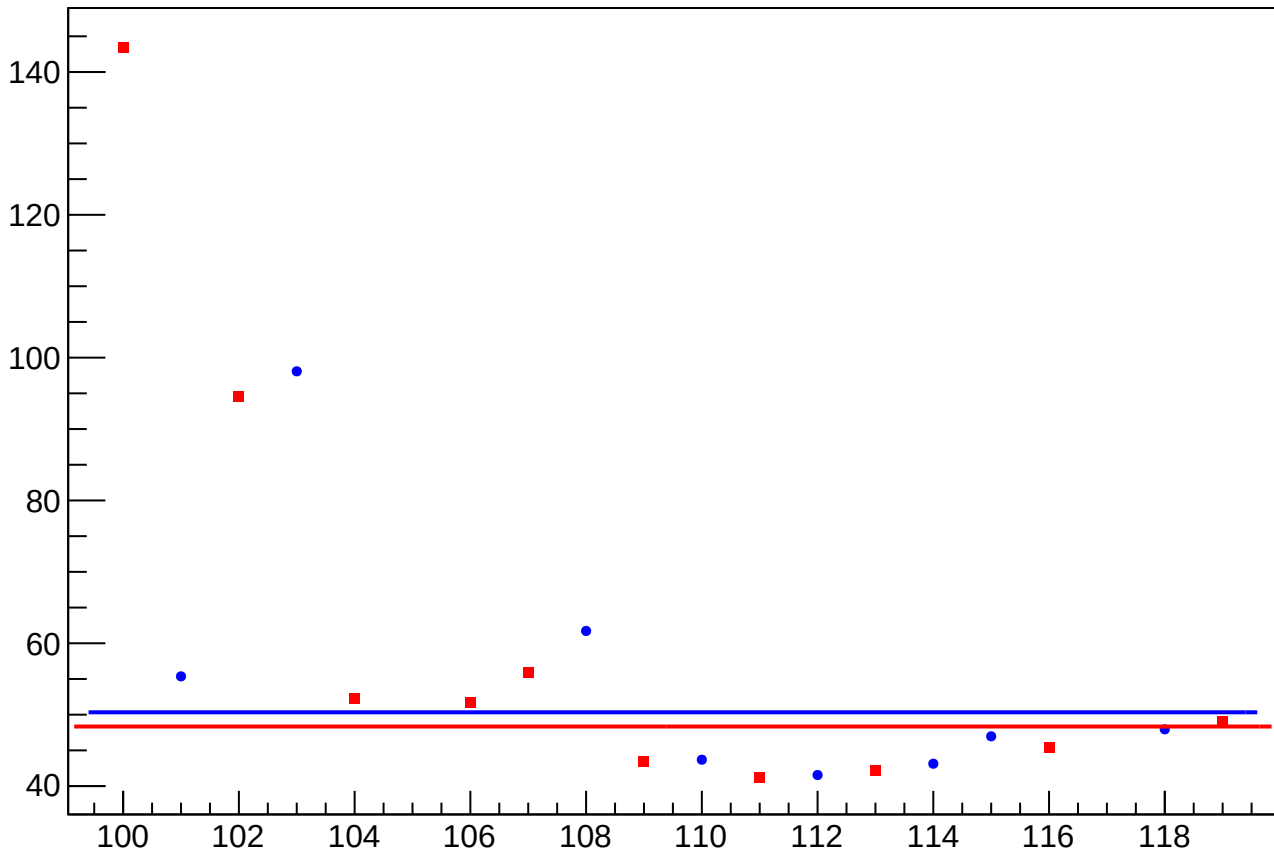
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -11.859+/-18.943  $\chi^2/\text{NDF}$ : 17.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 50.333 $\pm$ 0.020  $\chi^2$ /NDF: 382430.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.342 $\pm$ 0.018  $\chi^2$ /NDF: 439779.8/9

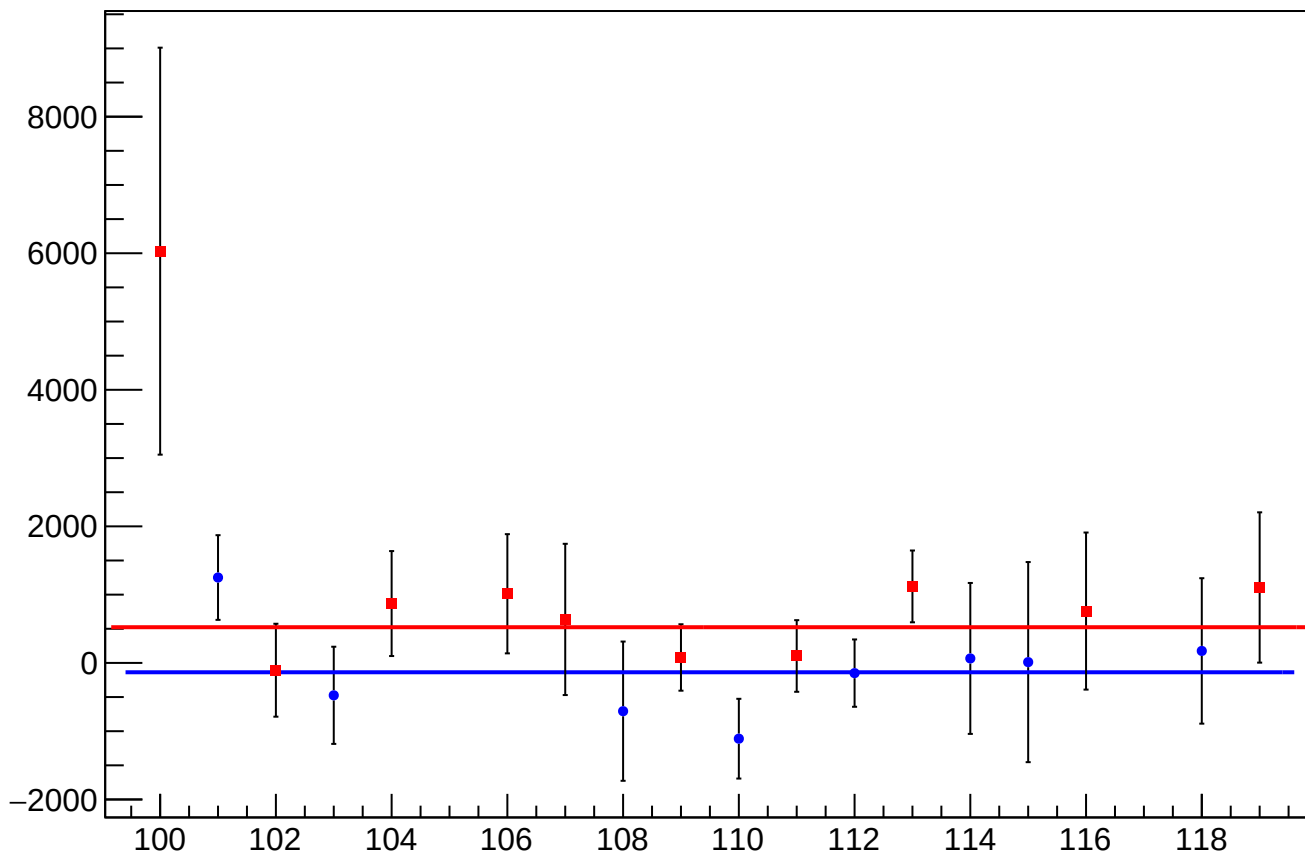
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 49.204 $\pm$ 0.013  $\chi^2$ /NDF: 827632.0/17

- 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: -136.957+/-260.392  $\chi^2/\text{NDF}$ : 8.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 522.845+/-228.516  $\chi^2/\text{NDF}$ : 7.9/9

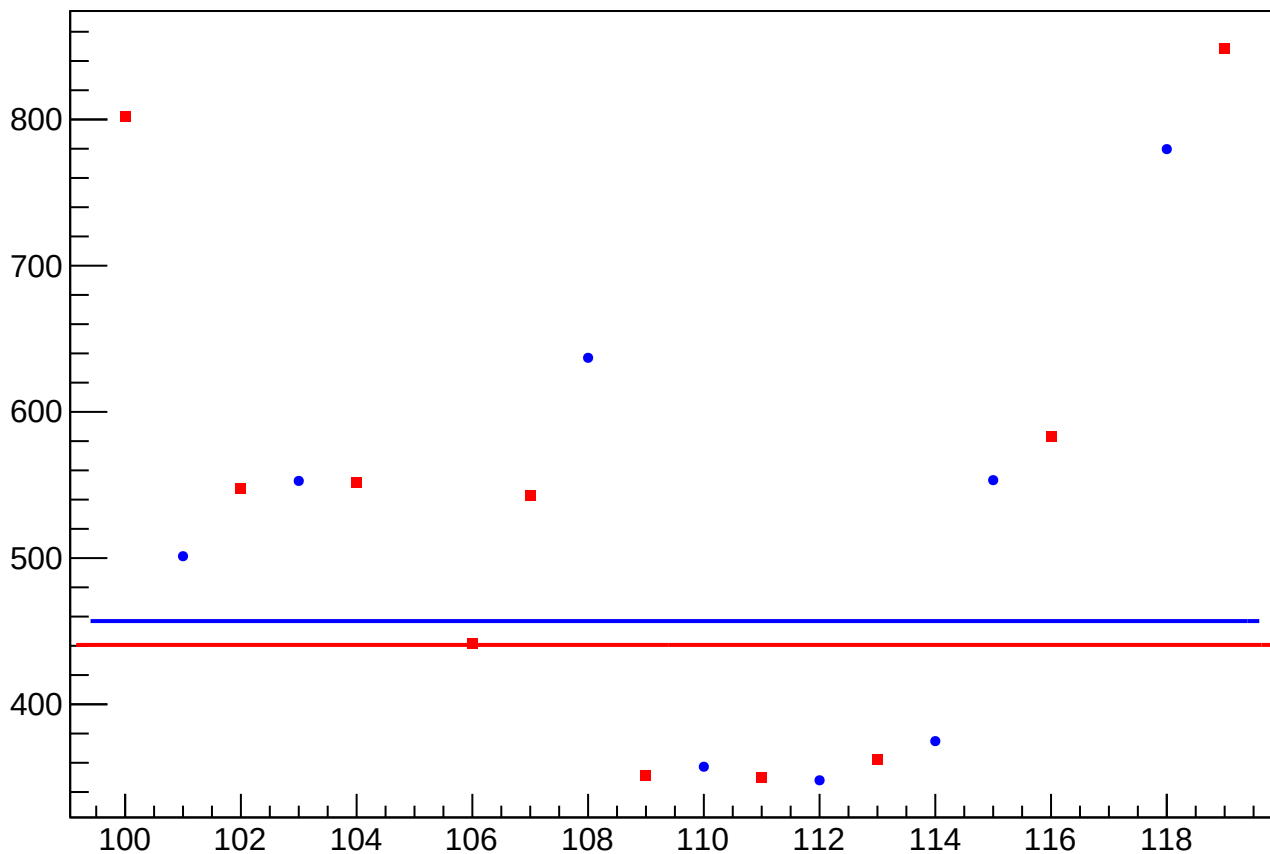
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 235.780+/-171.755  $\chi^2/\text{NDF}$ : 20.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 456.925+/-0.184  $\chi^2/\text{NDF}$ : 468099.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 440.611+/-0.162  $\chi^2/\text{NDF}$ : 614468.2/9

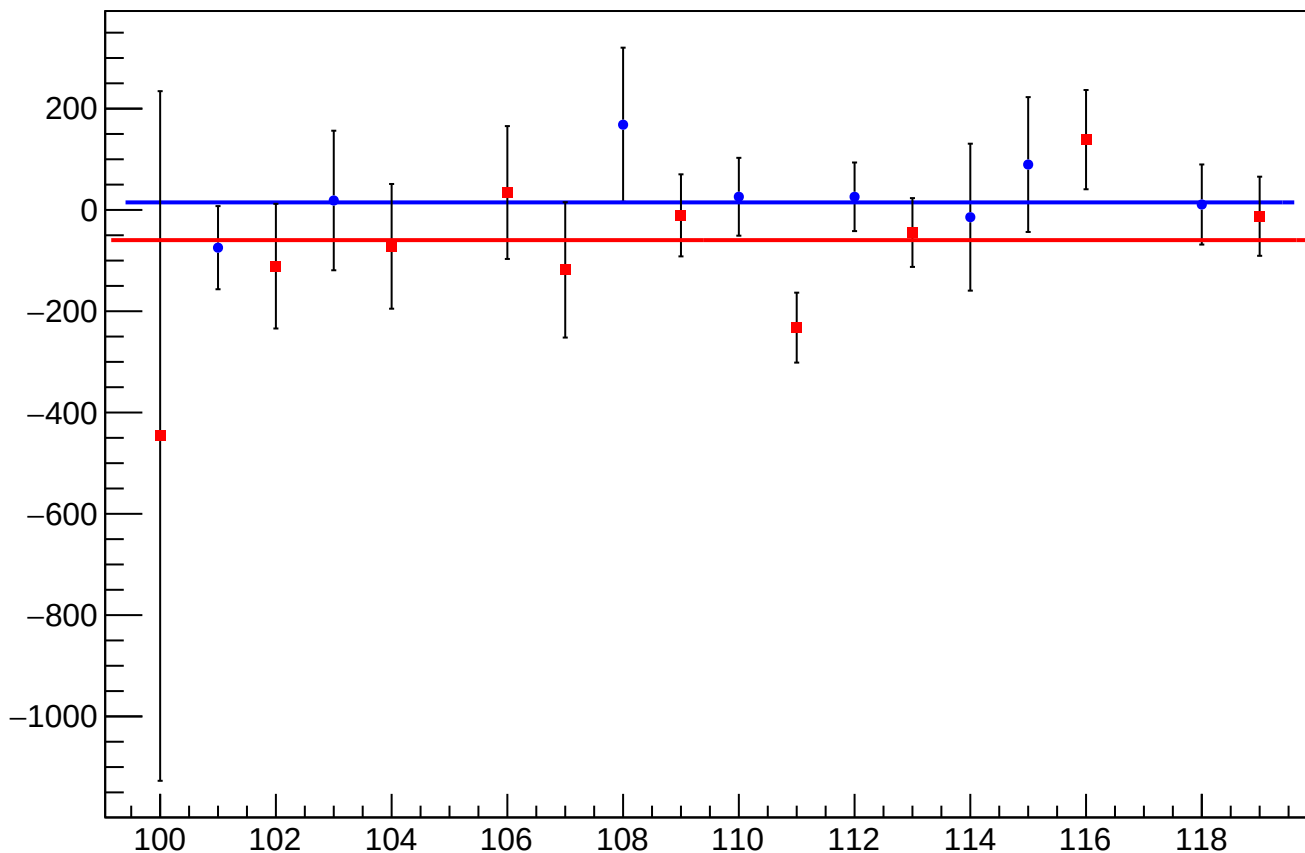
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 447.709+/-0.121  $\chi^2/\text{NDF}$ : 1087002.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 14.900+/-33.416  $\chi^2/\text{NDF}$ : 2.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -59.602+/-30.217  $\chi^2/\text{NDF}$ : 12.4/9

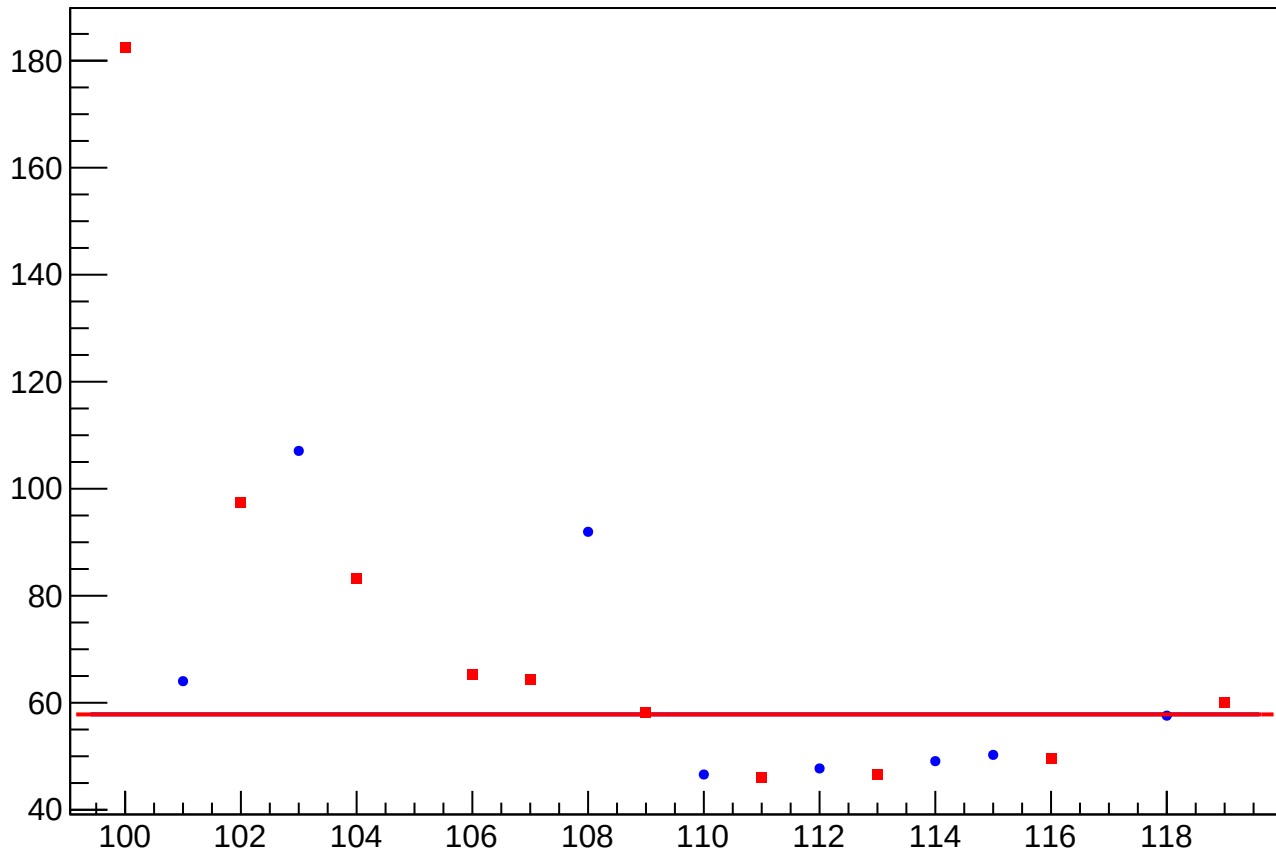
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -26.087+/-22.412  $\chi^2/\text{NDF}$ : 17.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 57.836+/-0.024  $\chi^2/\text{NDF}$ : 468560.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 57.823+/-0.021  $\chi^2/\text{NDF}$ : 497977.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

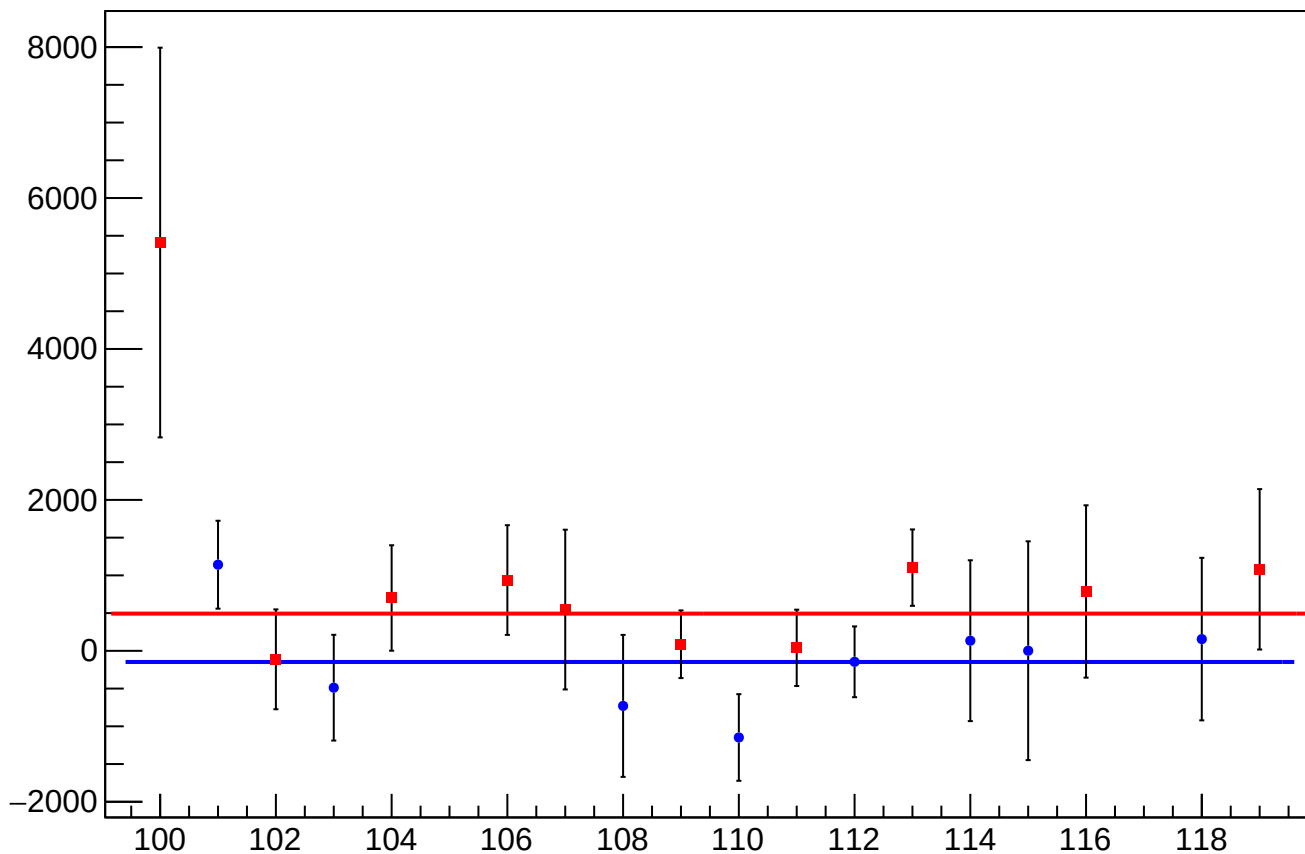
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 57.828+/-0.016  $\chi^2/\text{NDF}$ : 966538.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_37\_dd\_dit\_correction\_mean vs Slug



Right In: -147.351+/-250.673  $\chi^2/\text{NDF}$ : 8.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 493.251+/-214.616  $\chi^2/\text{NDF}$ : 8.4/9

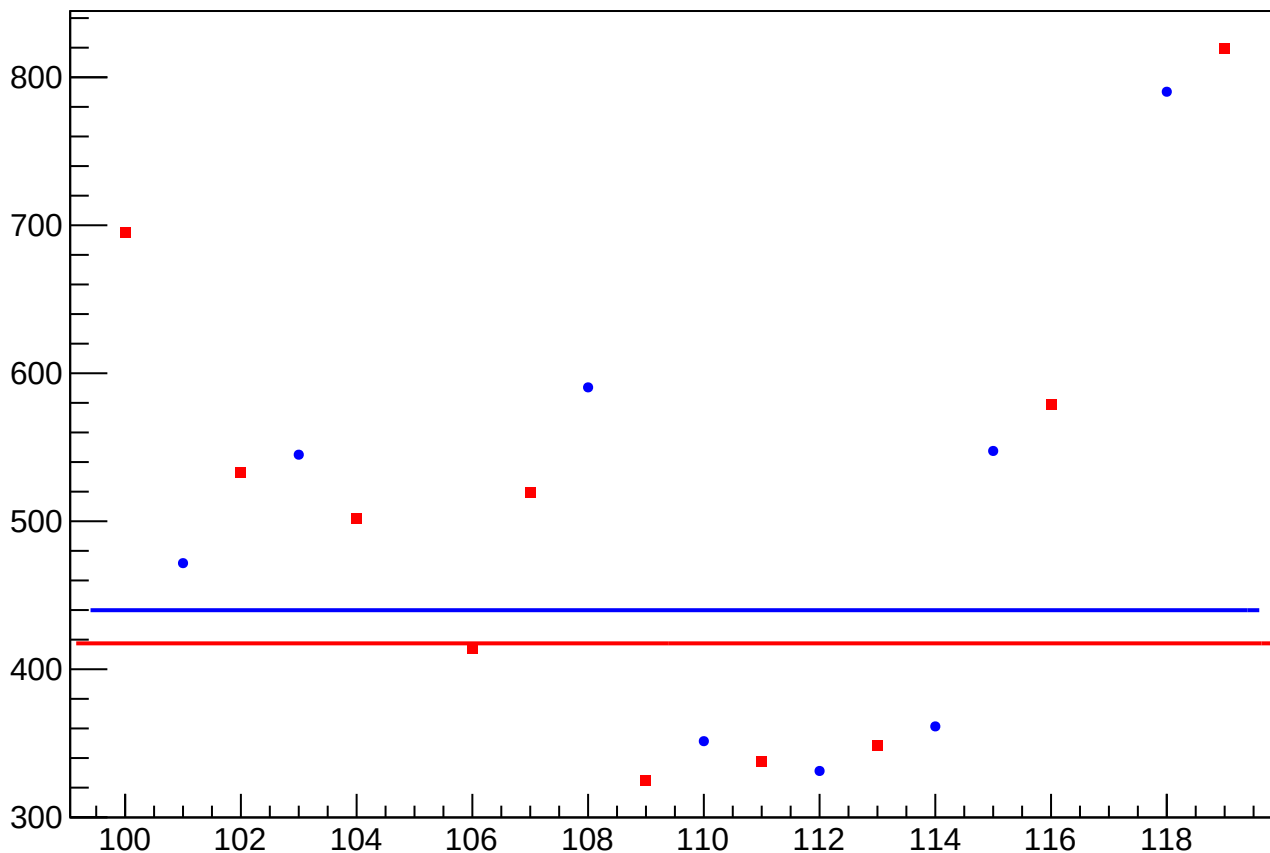
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 222.296+/-163.028  $\chi^2/\text{NDF}$ : 20.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_dit\_correction\_rms vs Slug



Right In: 439.898 $\pm$ 0.177  $\chi^2$ /NDF: 490550.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 417.494 $\pm$ 0.152  $\chi^2$ /NDF: 629638.6/9

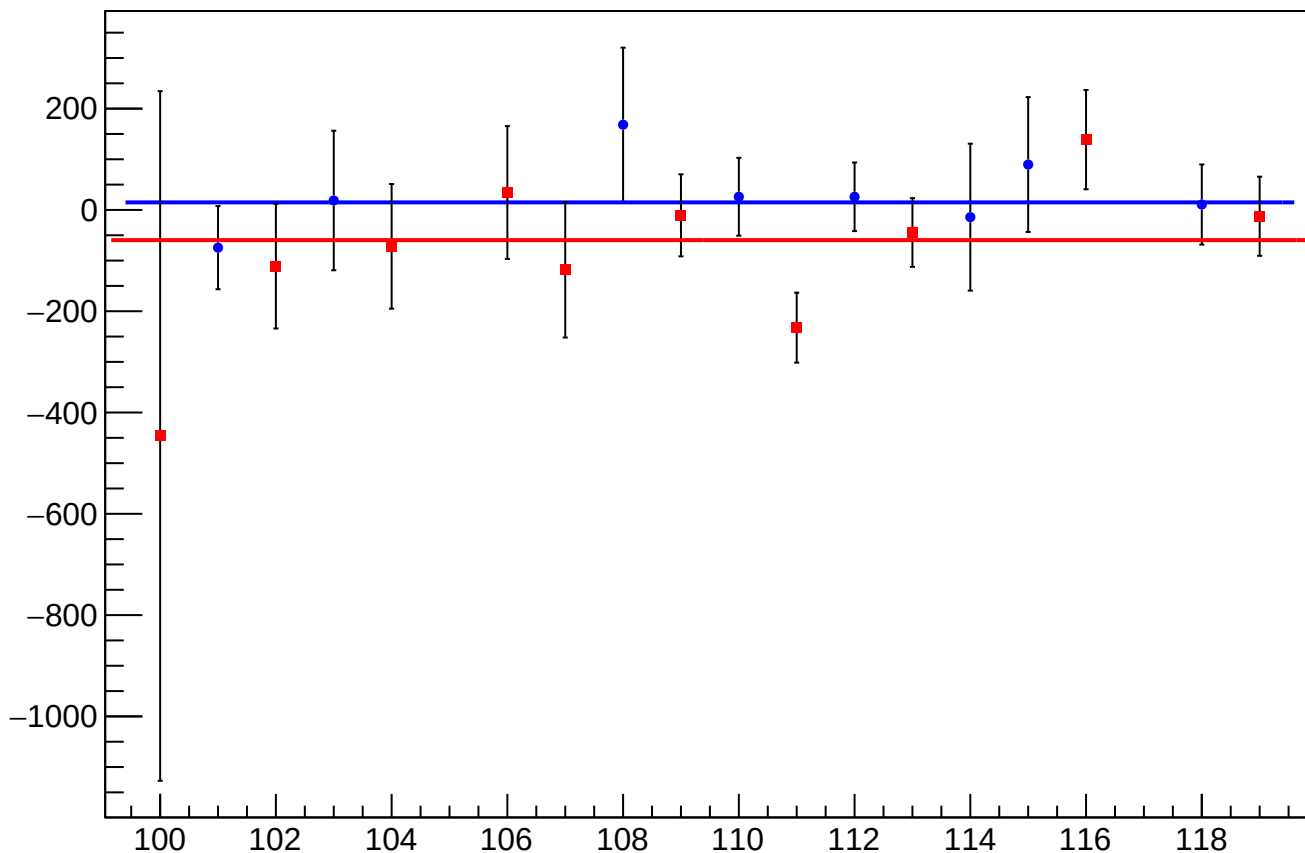
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 426.970 $\pm$ 0.115  $\chi^2$ /NDF: 1129407.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 14.901 $\pm$ 33.416  $\chi^2$ /NDF: 2.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -59.603 $\pm$ 30.217  $\chi^2$ /NDF: 12.4/9

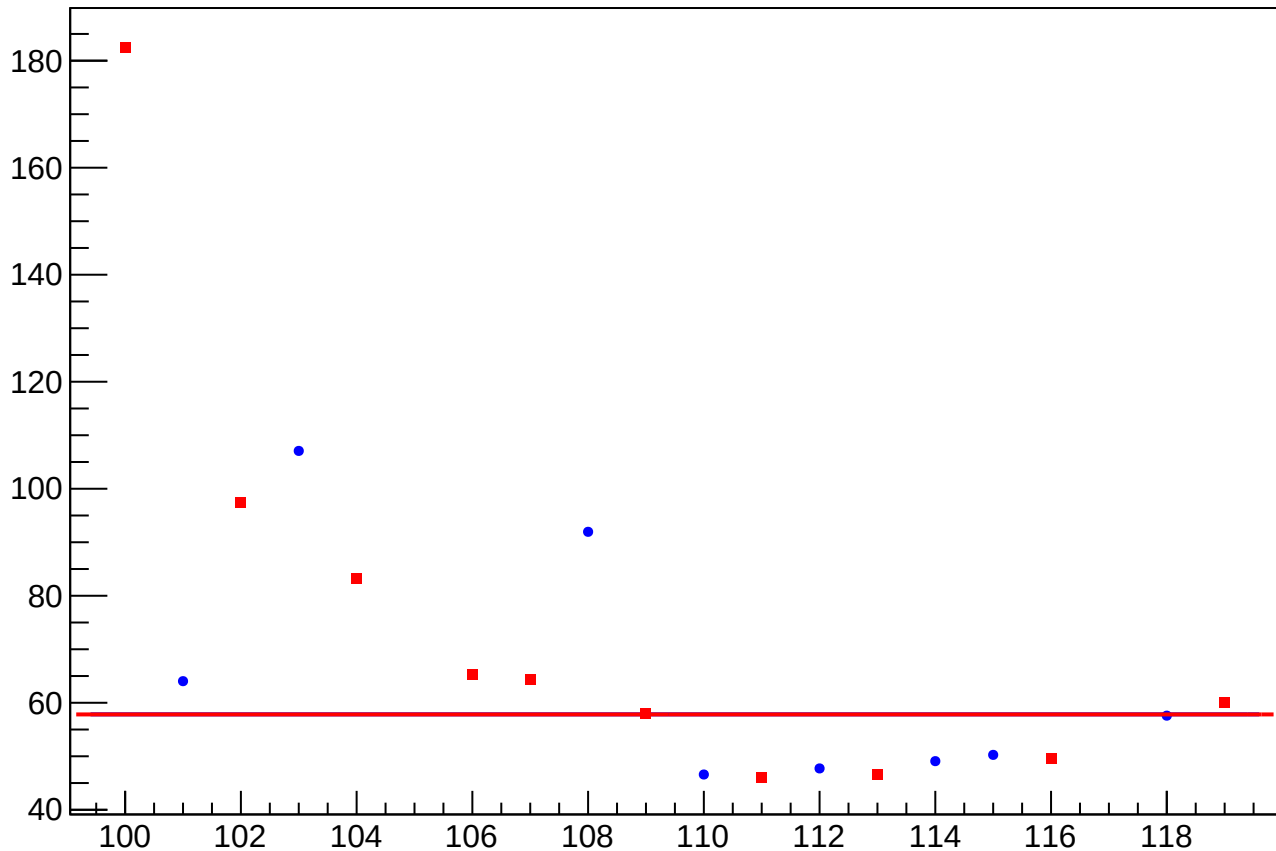
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -26.087 $\pm$ 22.412  $\chi^2$ /NDF: 17.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 57.836+/-0.024  $\chi^2/\text{NDF}$ : 468557.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 57.823+/-0.021  $\chi^2/\text{NDF}$ : 497974.0/9

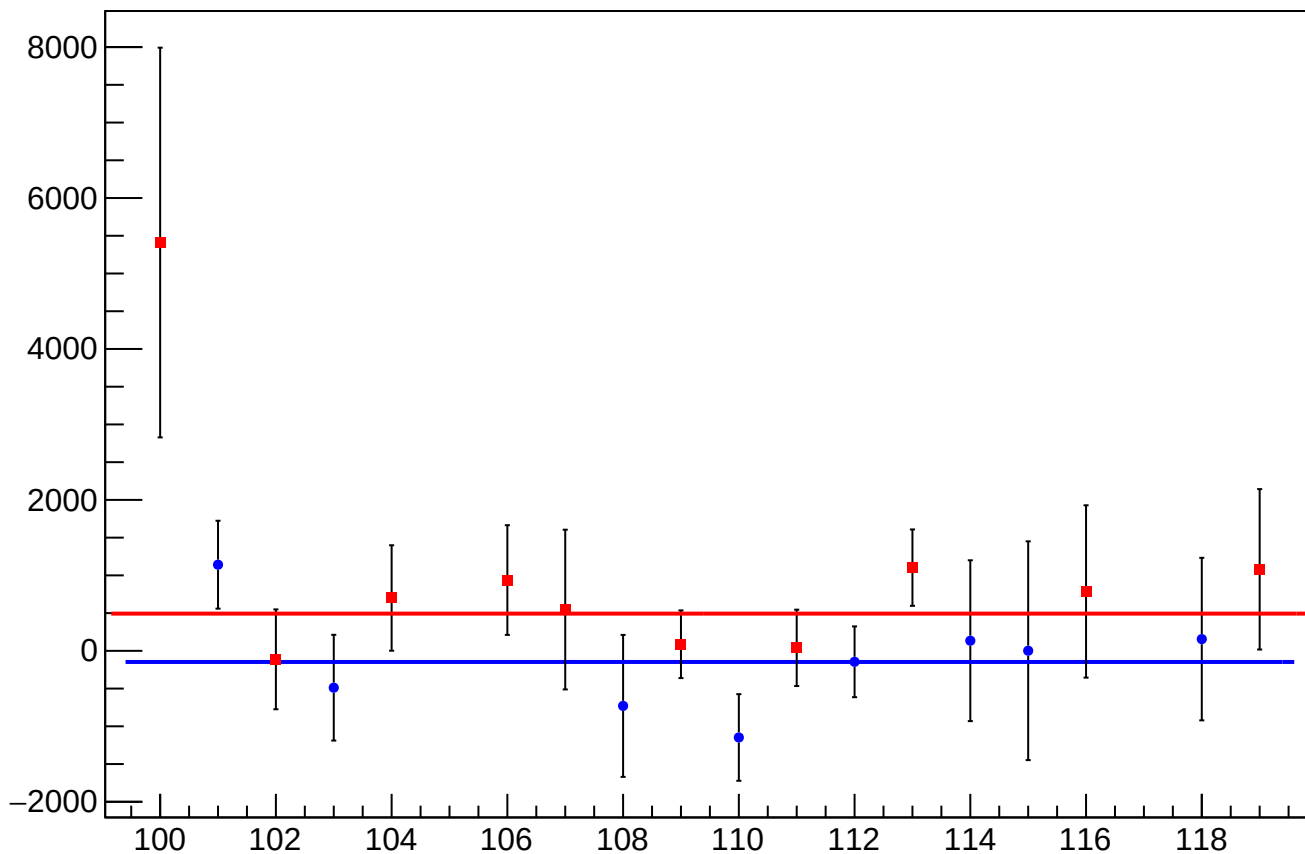
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 57.829+/-0.016  $\chi^2/\text{NDF}$ : 966531.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -147.350+/-250.672  $\chi^2/\text{NDF}$ : 8.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 493.250+/-214.616  $\chi^2/\text{NDF}$ : 8.4/9

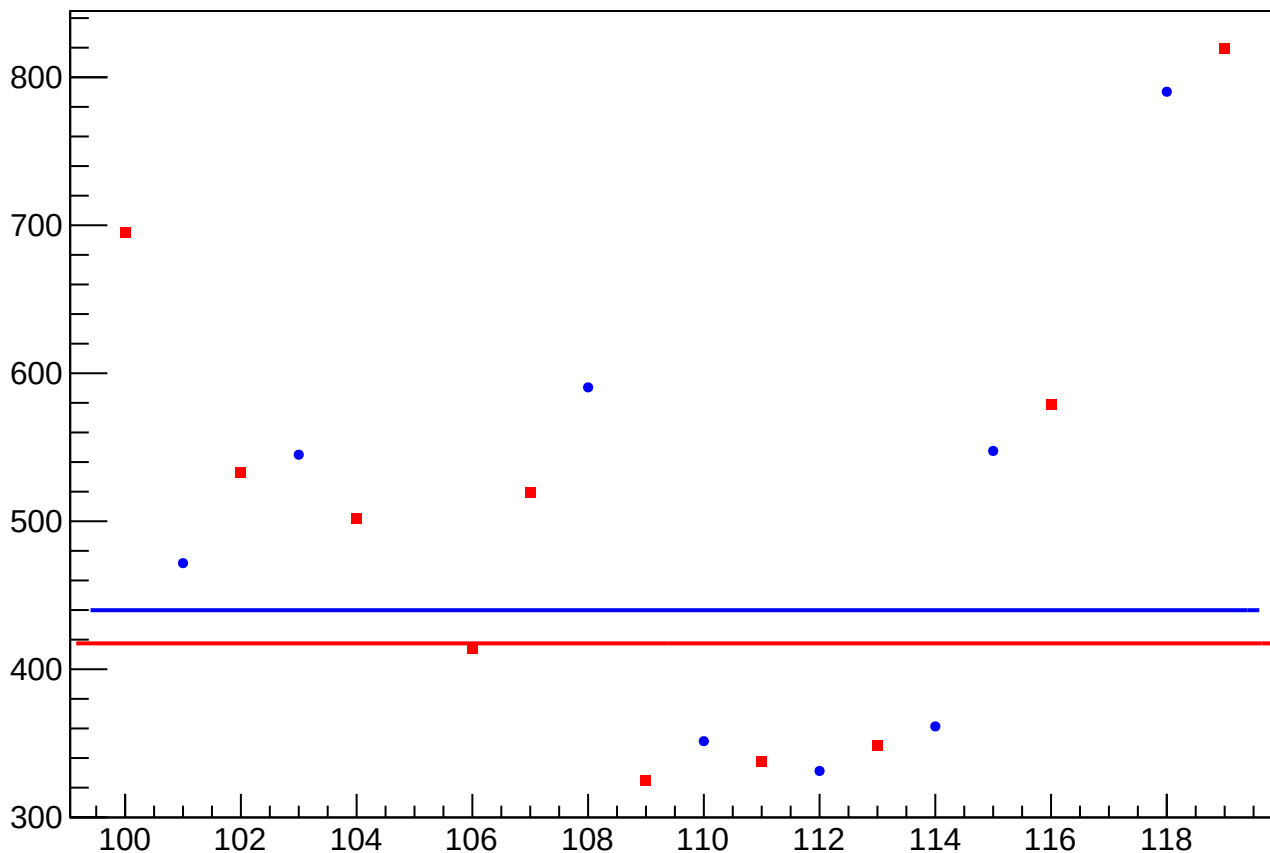
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 222.296+/-163.028  $\chi^2/\text{NDF}$ : 20.9/17

- 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: 439.897 $\pm$ 0.177  $\chi^2$ /NDF: 490551.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 417.493 $\pm$ 0.152  $\chi^2$ /NDF: 629638.3/9

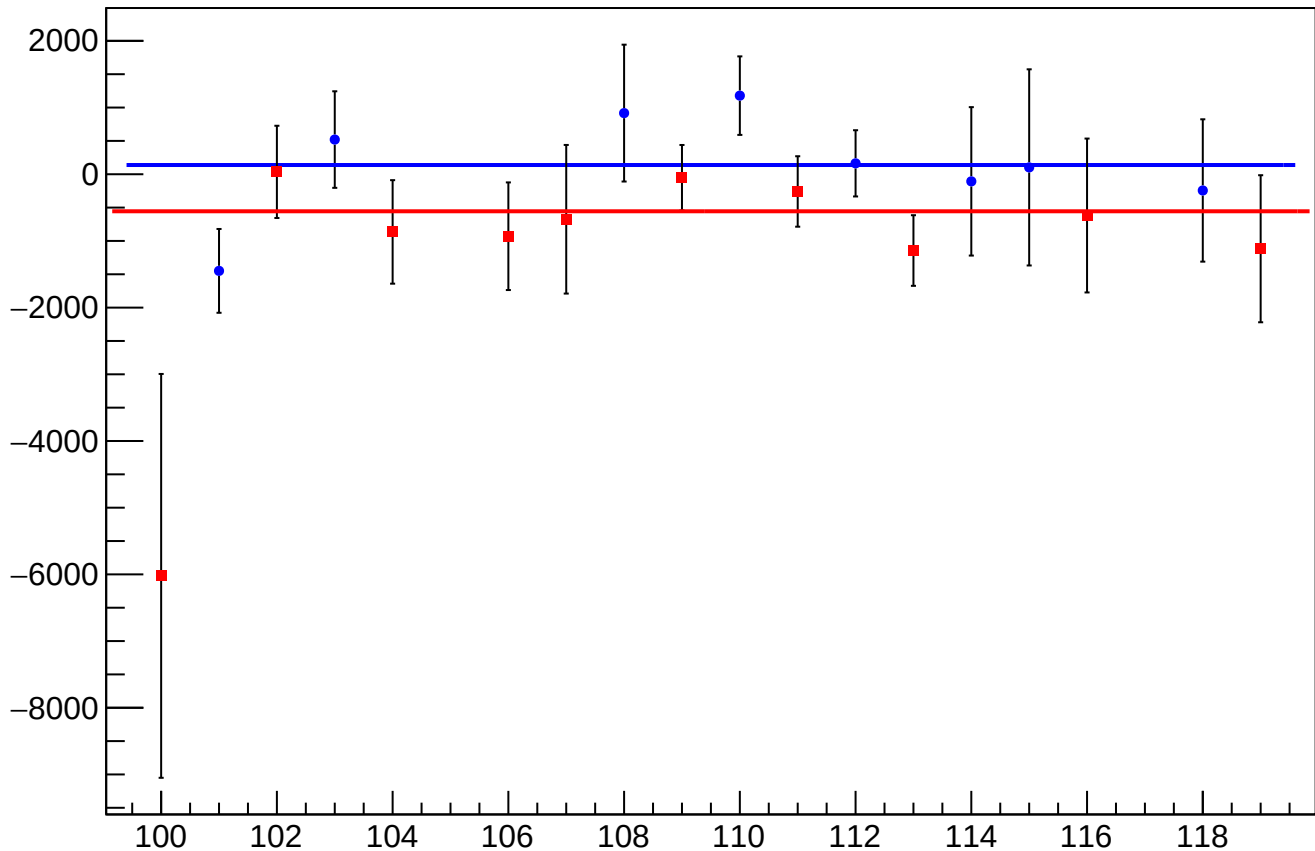
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 426.969 $\pm$ 0.115  $\chi^2$ /NDF: 1129408.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 138.415 $\pm$ 262.804  $\chi^2$ /NDF: 10.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -555.394 $\pm$ 228.953  $\chi^2$ /NDF: 7.2/9

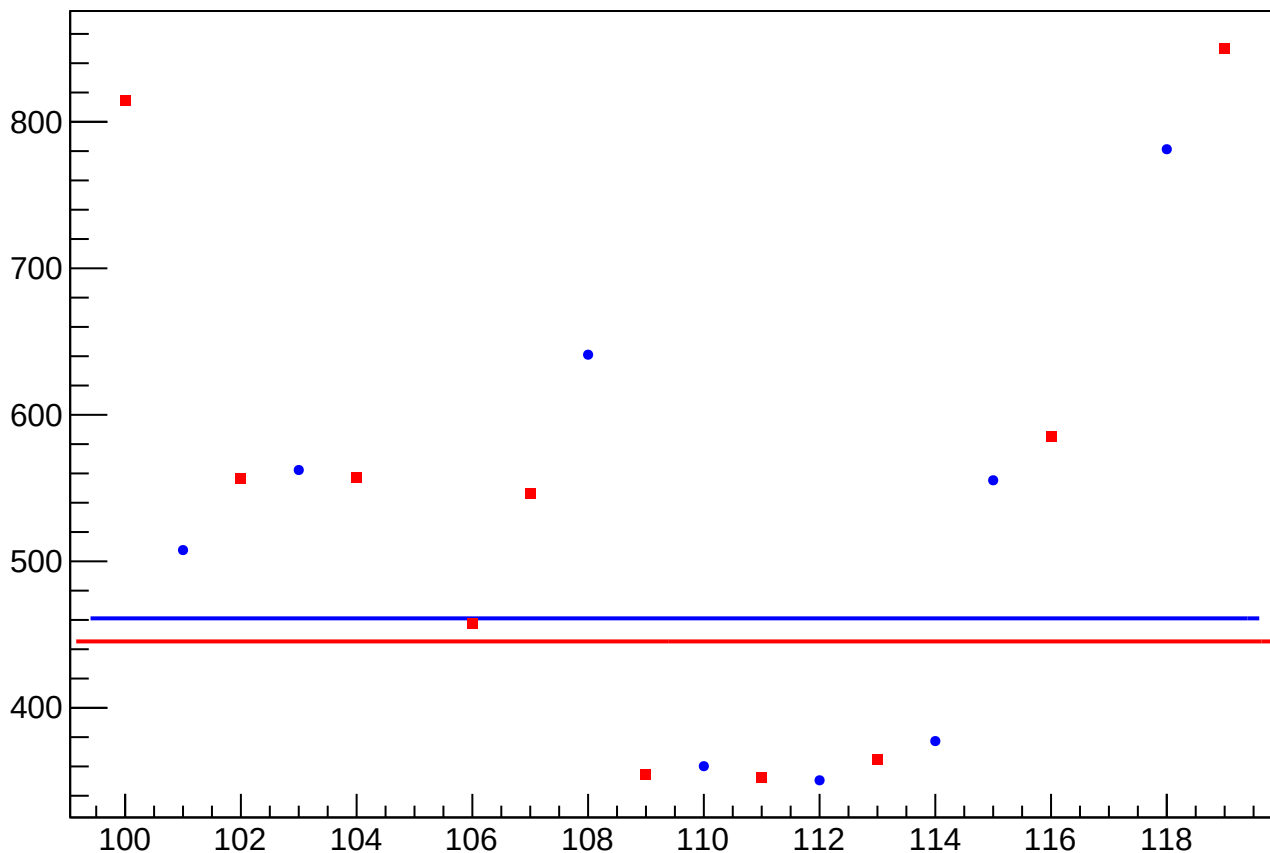
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -256.023 $\pm$ 172.630  $\chi^2$ /NDF: 21.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_37\_dd\_rms vs Slug



Right In:  $461.078 \pm 0.186$   $\chi^2/\text{NDF}$ : 469058.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $445.337 \pm 0.162$   $\chi^2/\text{NDF}$ : 614600.2/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

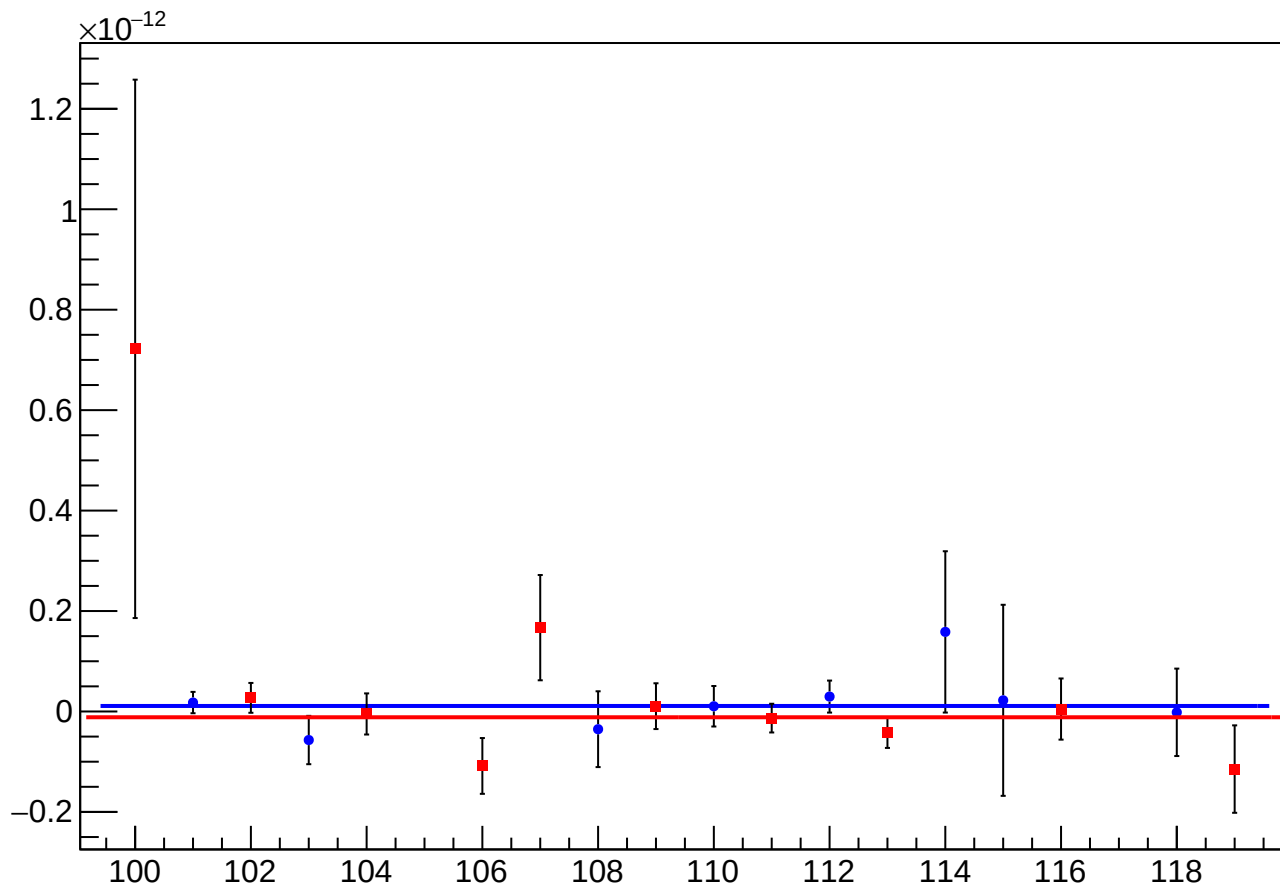
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $452.129 \pm 0.122$   $\chi^2/\text{NDF}$ : 1087738.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 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: 3.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.3/9

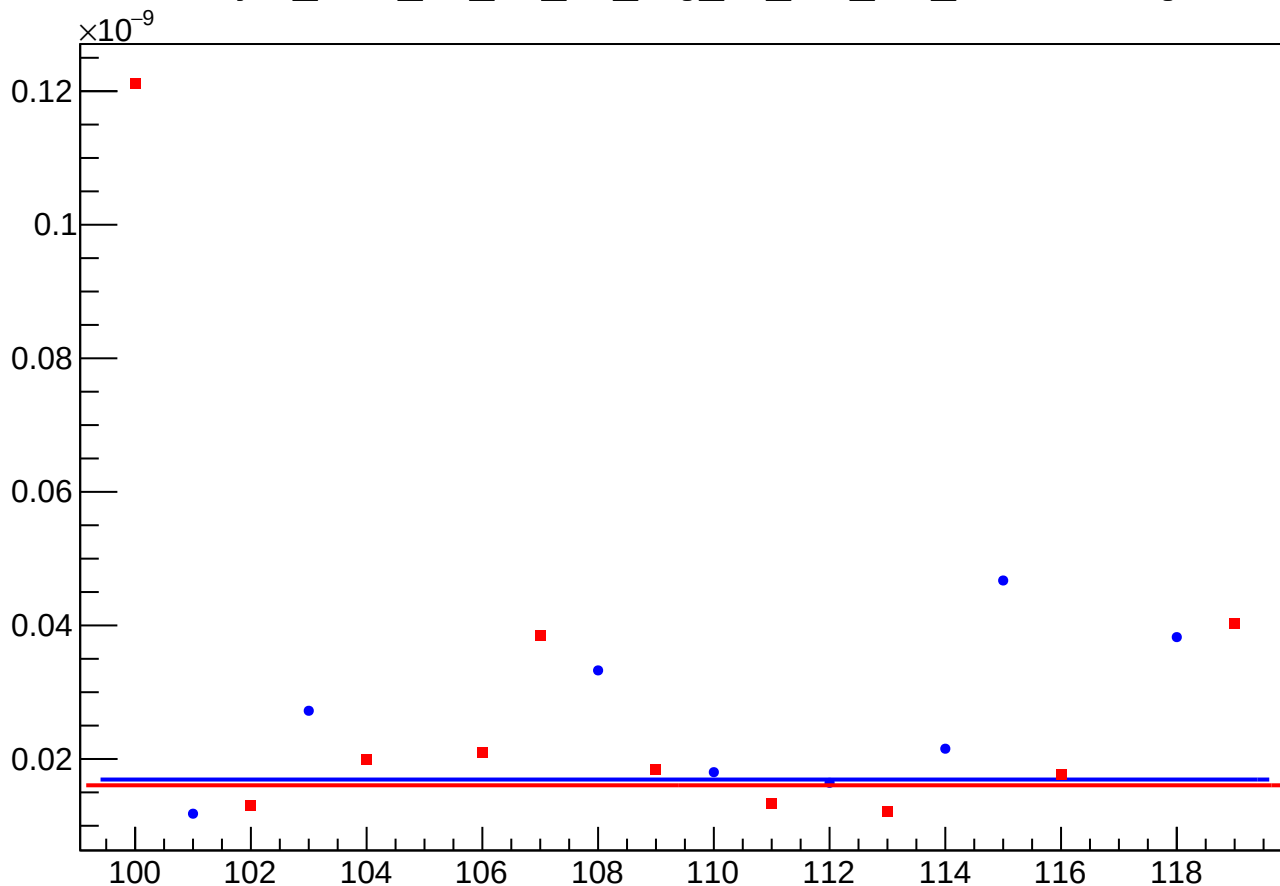
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.3/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 473982.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 433352.7/9

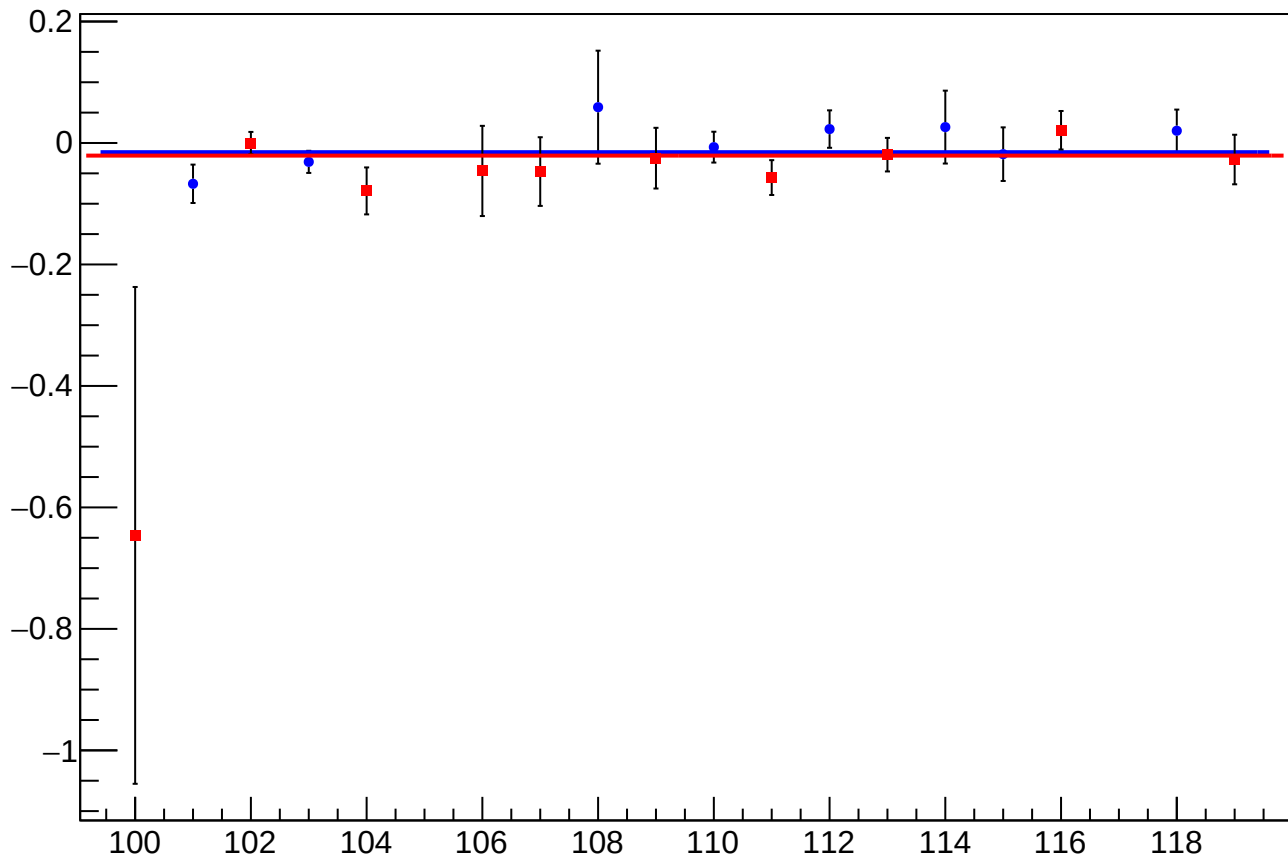
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 911036.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.015 $\pm$ 0.011  $\chi^2$ /NDF: 7.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.021 $\pm$ 0.011  $\chi^2$ /NDF: 9.6/9

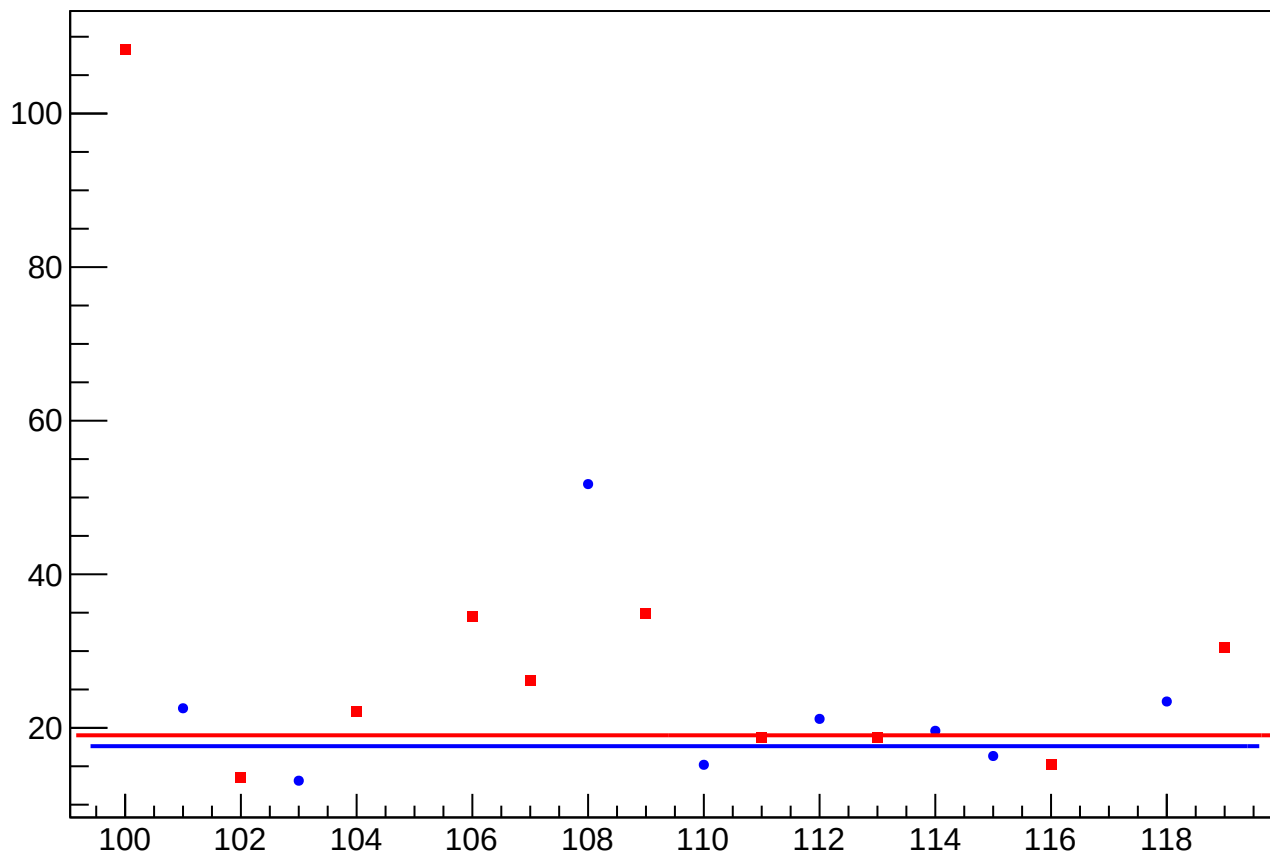
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.018 $\pm$ 0.008  $\chi^2$ /NDF: 16.9/17

- 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: 17.618 $\pm$ 0.008  $\chi^2$ /NDF: 544049.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.034 $\pm$ 0.008  $\chi^2$ /NDF: 787993.6/9

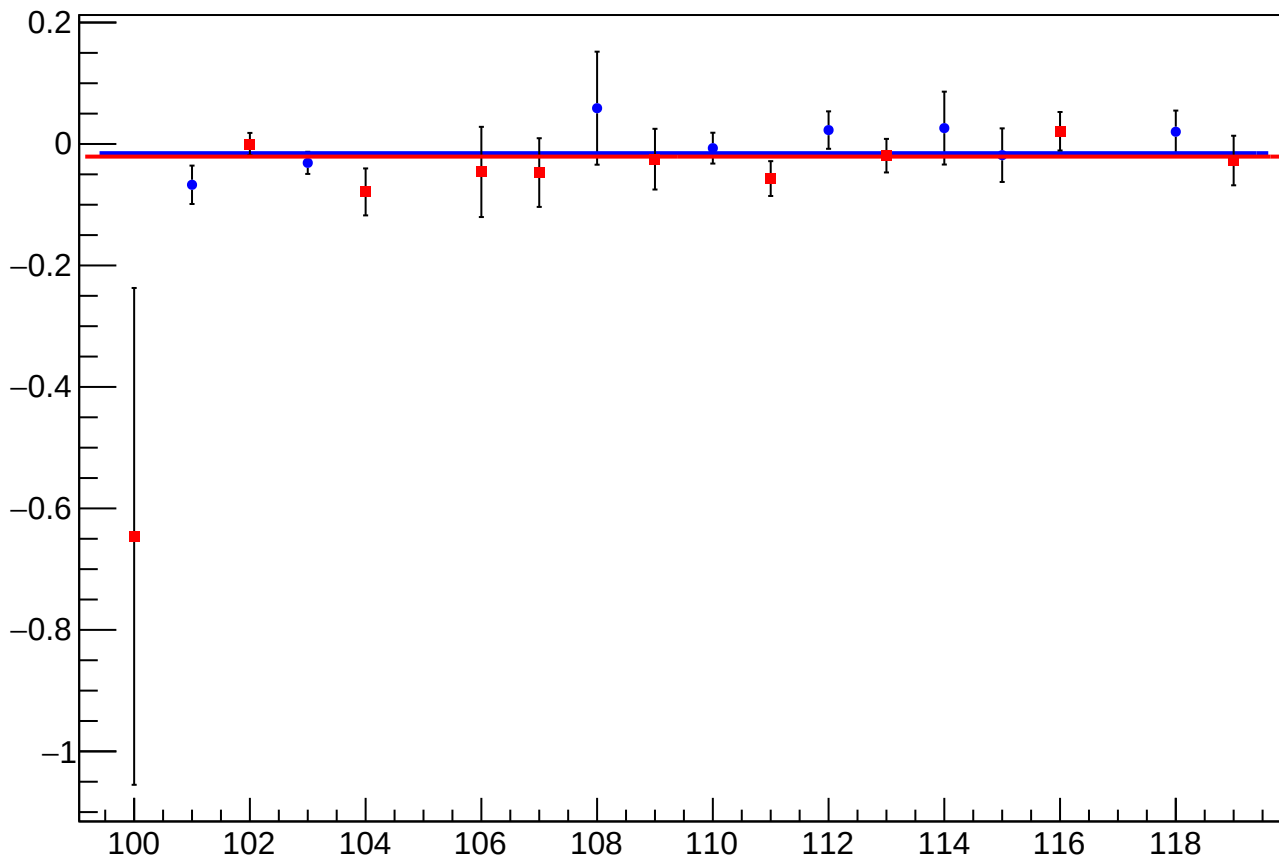
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.339 $\pm$ 0.005  $\chi^2$ /NDF: 1349075.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.015 $\pm$ 0.011  $\chi^2$ /NDF: 7.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.021 $\pm$ 0.011  $\chi^2$ /NDF: 9.6/9

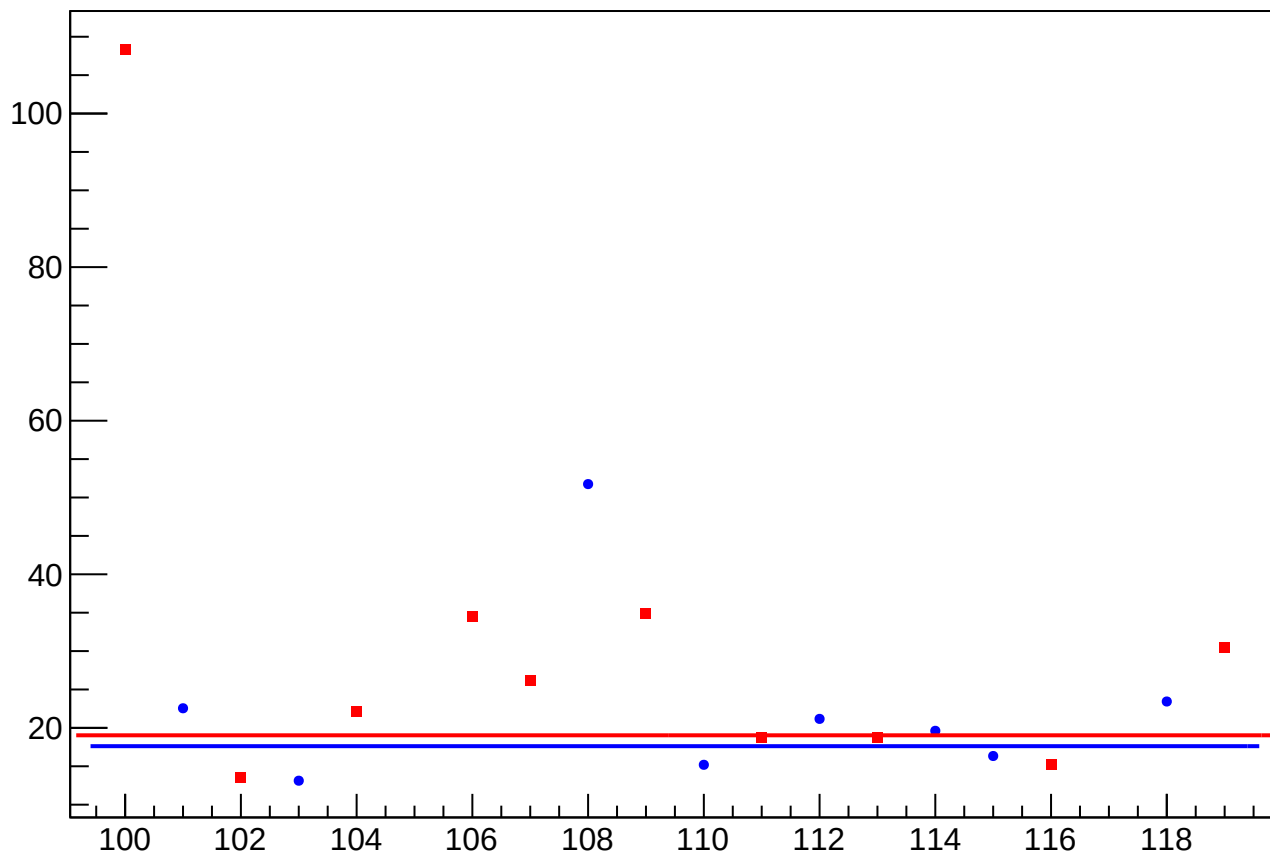
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.018 $\pm$ 0.008  $\chi^2$ /NDF: 16.9/17

- 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: 17.618+/-0.008  $\chi^2/\text{NDF}$ : 544049.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.034+/-0.008  $\chi^2/\text{NDF}$ : 787993.6/9

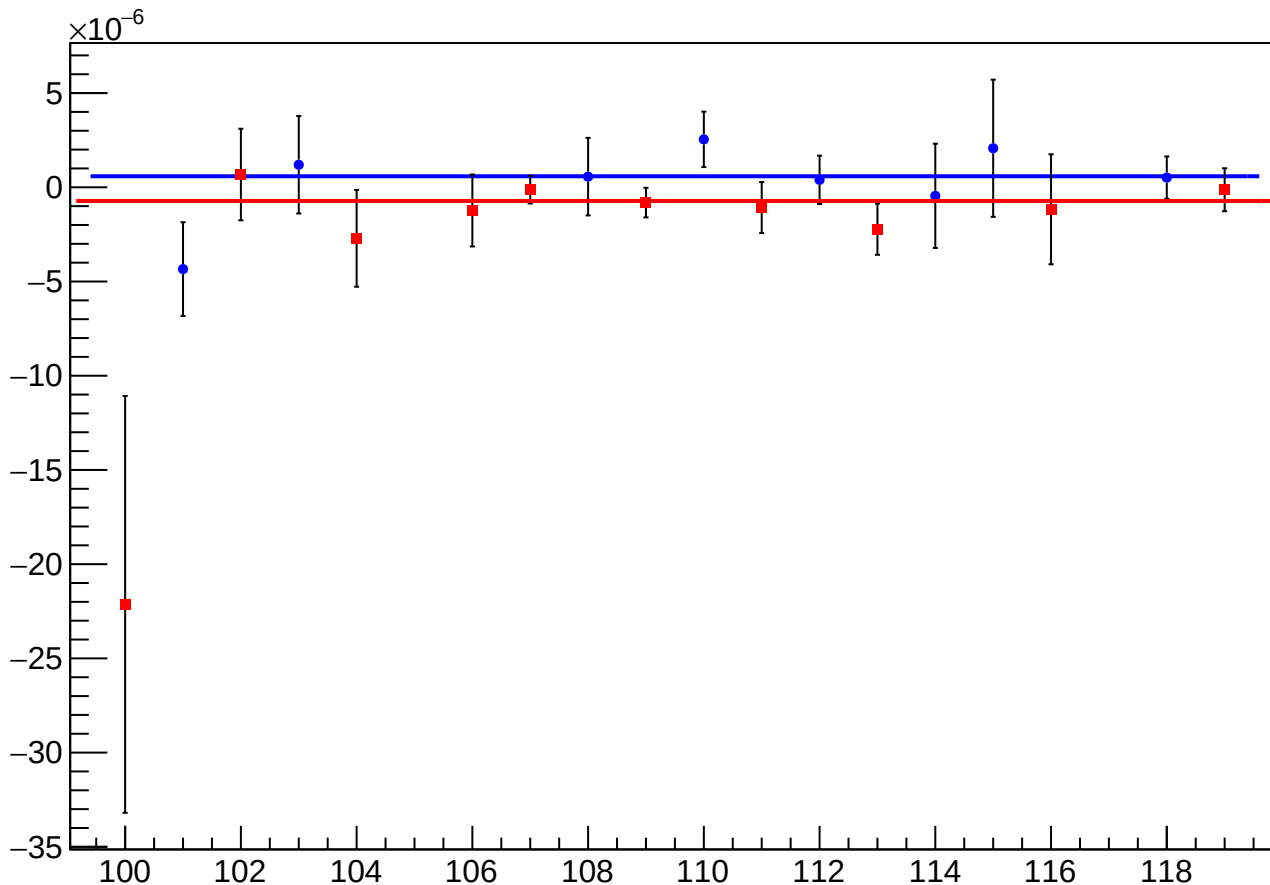
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.339+/-0.005  $\chi^2/\text{NDF}$ : 1349075.0/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 6.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.0/9

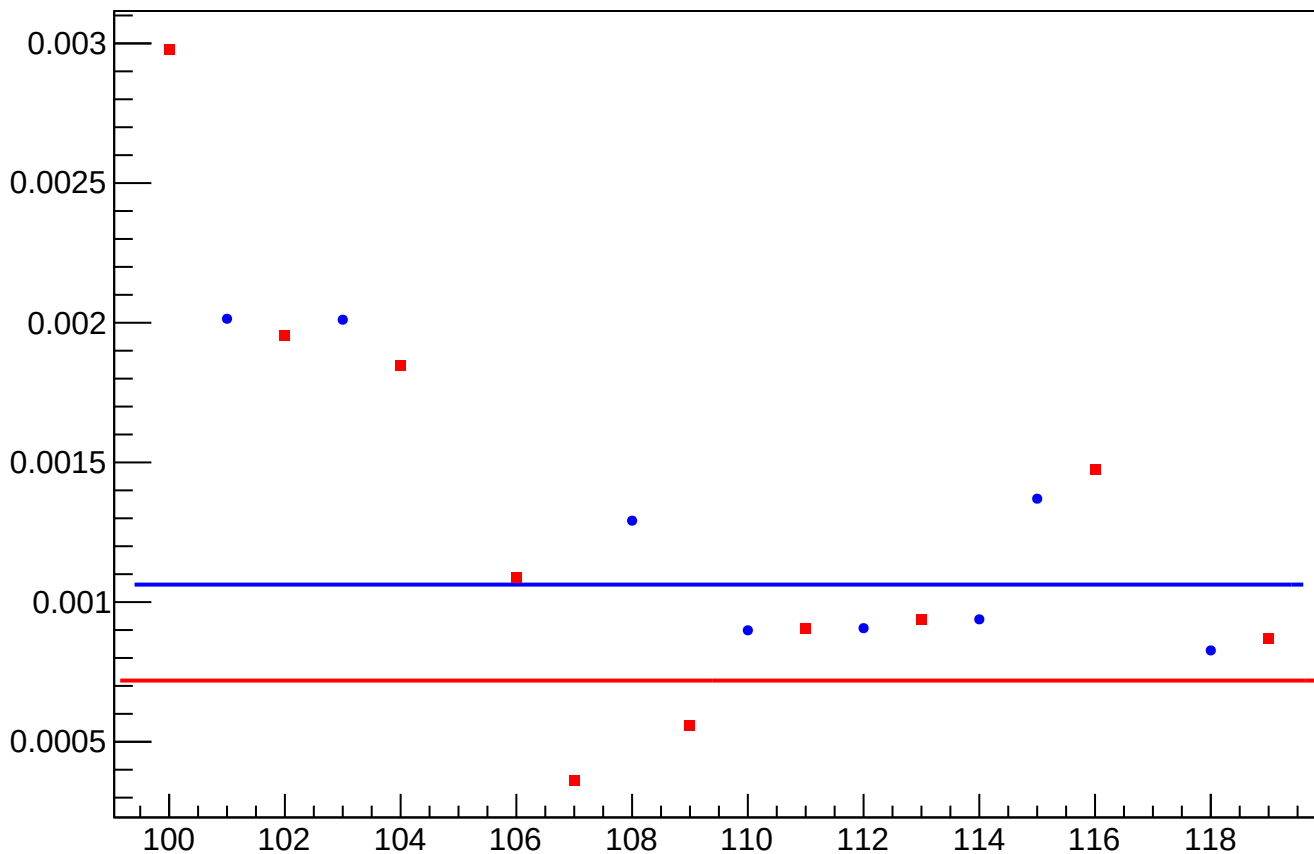
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 746801.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1877111.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

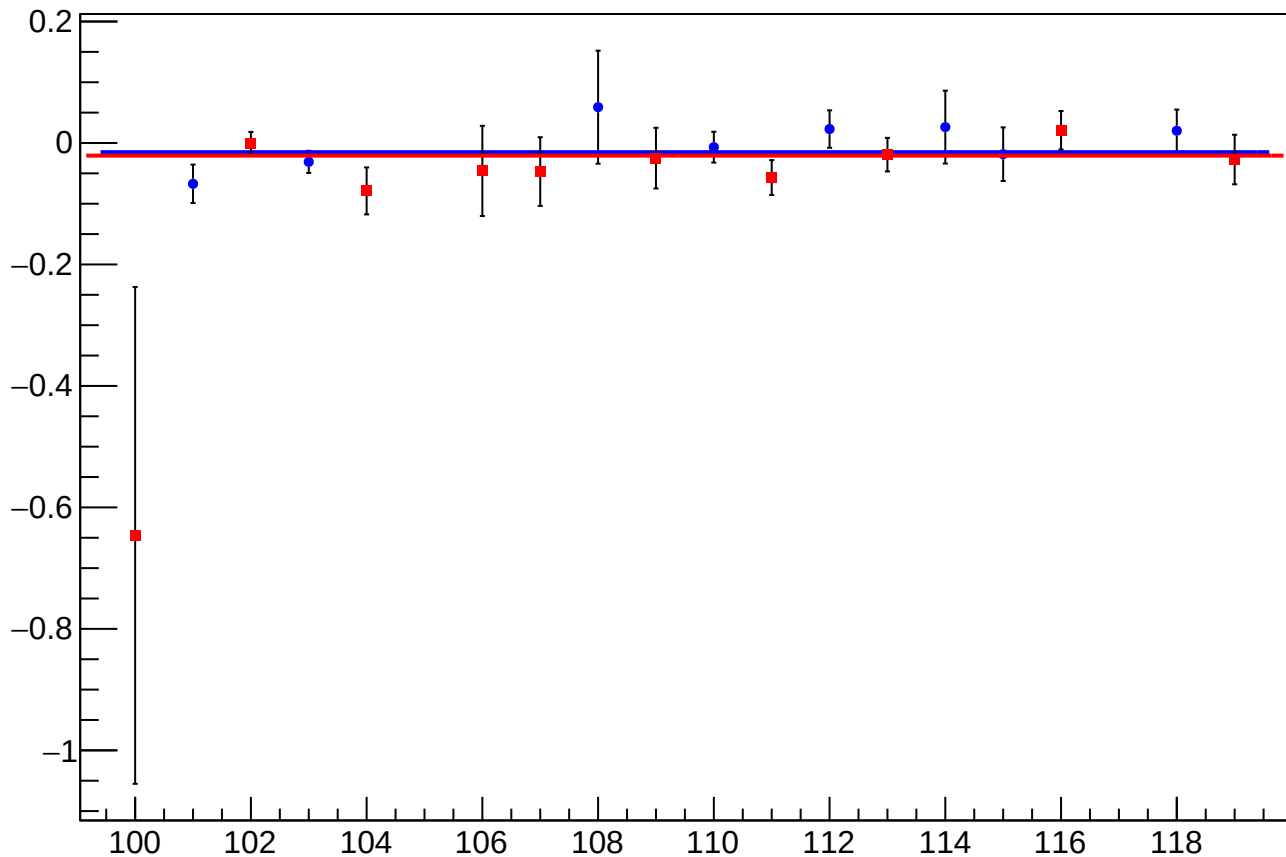
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3054639.7/17

- 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: -0.015 $\pm$ 0.011  $\chi^2$ /NDF: 7.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.021 $\pm$ 0.011  $\chi^2$ /NDF: 9.6/9

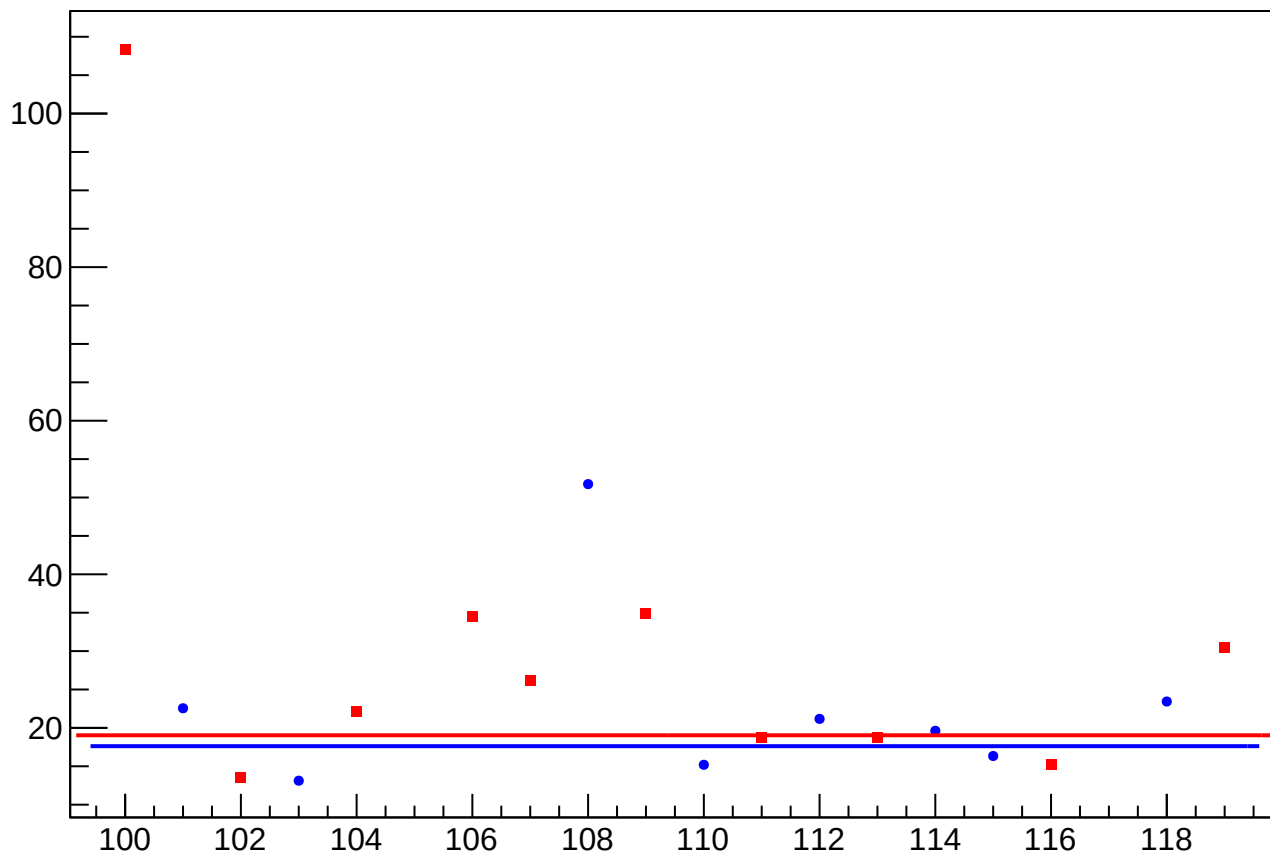
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.018 $\pm$ 0.008  $\chi^2$ /NDF: 16.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 17.619+/-0.008  $\chi^2/\text{NDF}$ : 544015.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.035+/-0.008  $\chi^2/\text{NDF}$ : 787863.6/9

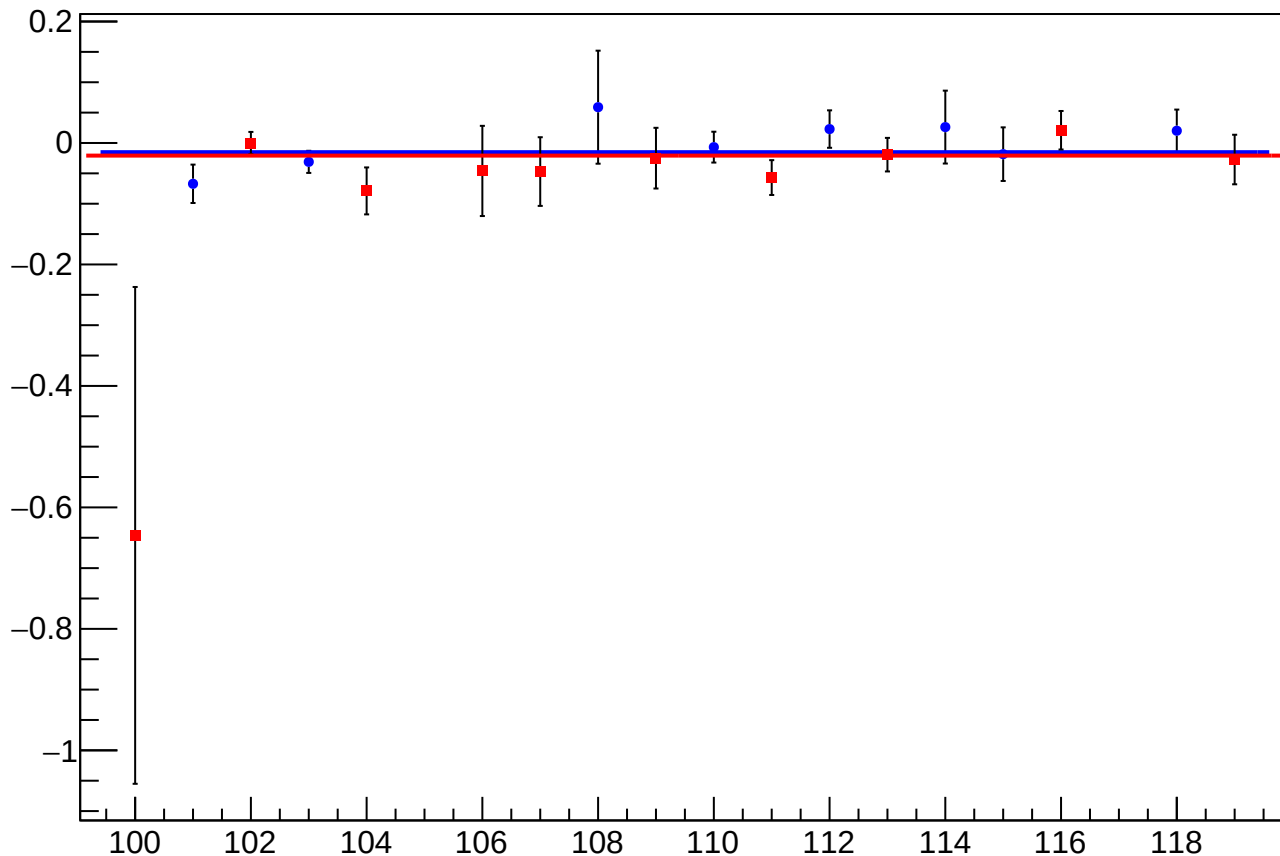
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.340+/-0.005  $\chi^2/\text{NDF}$ : 1348918.7/17

- 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: -0.015 $\pm$ 0.011  $\chi^2$ /NDF: 7.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.021 $\pm$ 0.011  $\chi^2$ /NDF: 9.6/9

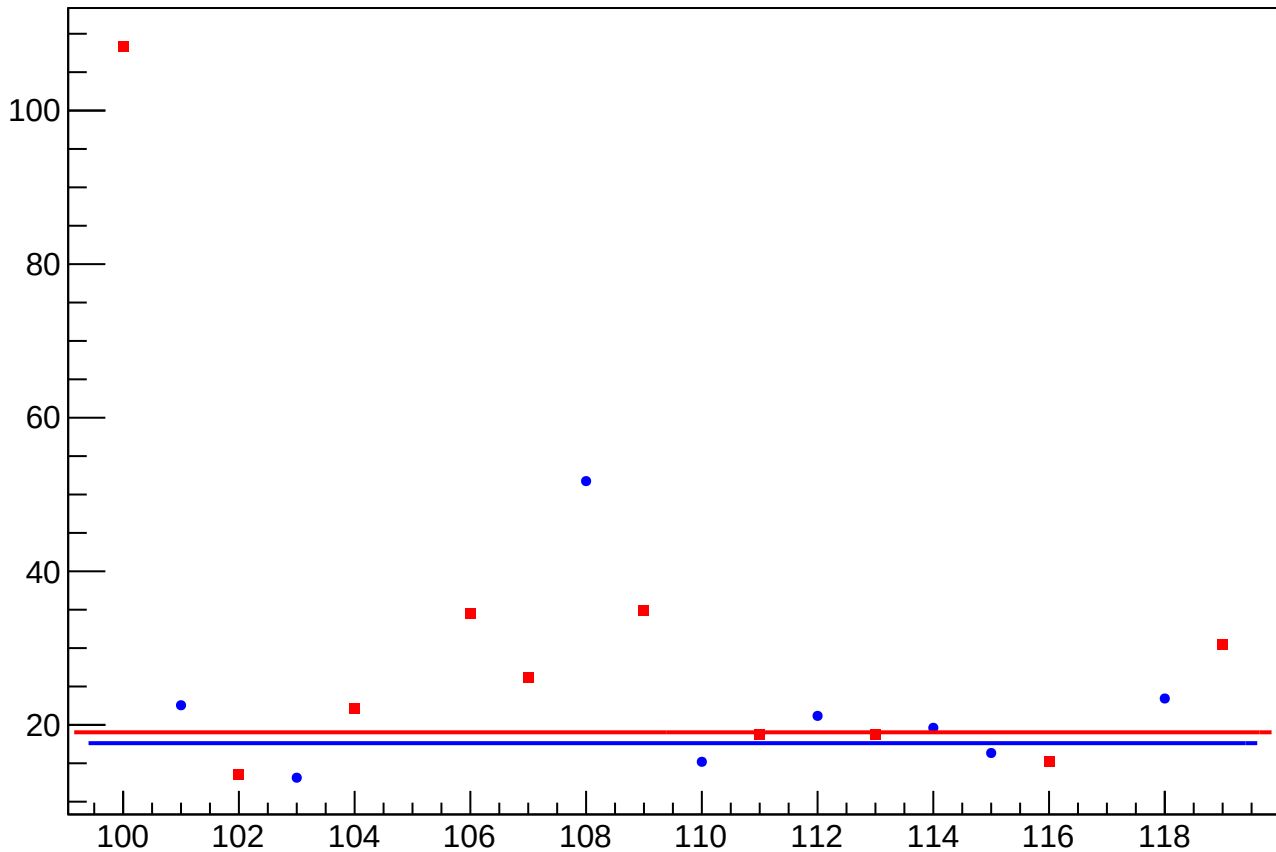
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.018 $\pm$ 0.008  $\chi^2$ /NDF: 16.9/17

- 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: 17.619+/-0.008  $\chi^2/\text{NDF}$ : 544015.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.035+/-0.008  $\chi^2/\text{NDF}$ : 787863.6/9

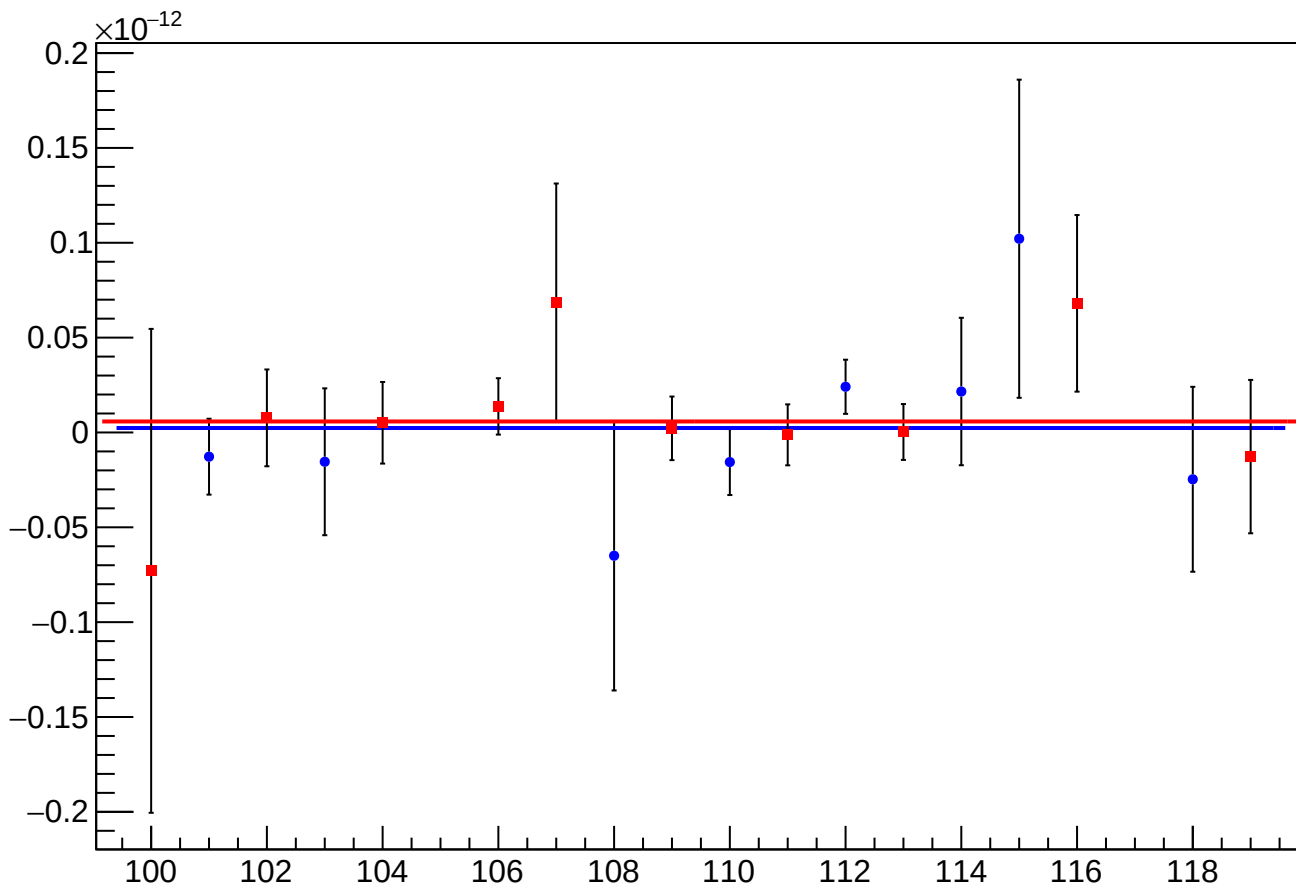
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.340+/-0.005  $\chi^2/\text{NDF}$ : 1348918.7/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 7.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.0/9

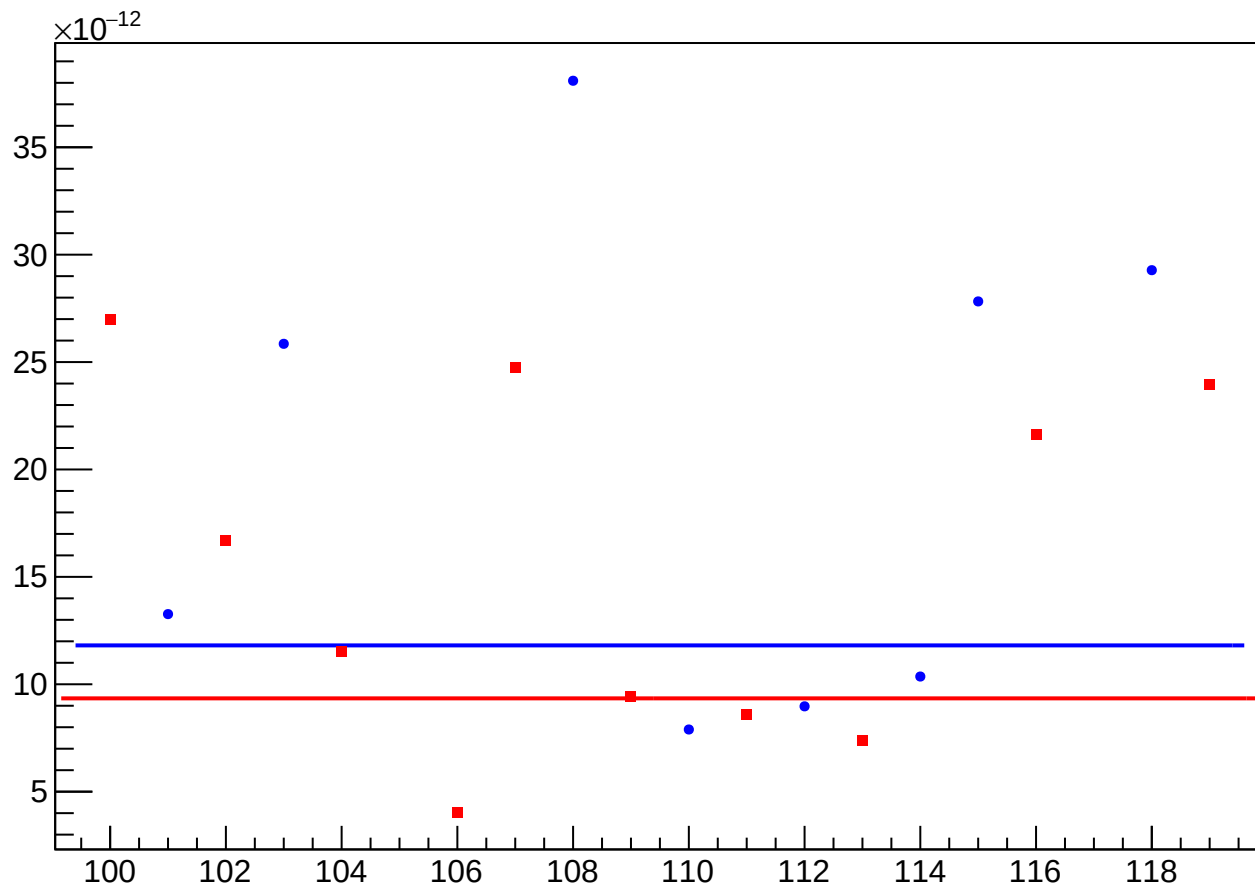
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1060723.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1042012.2/9

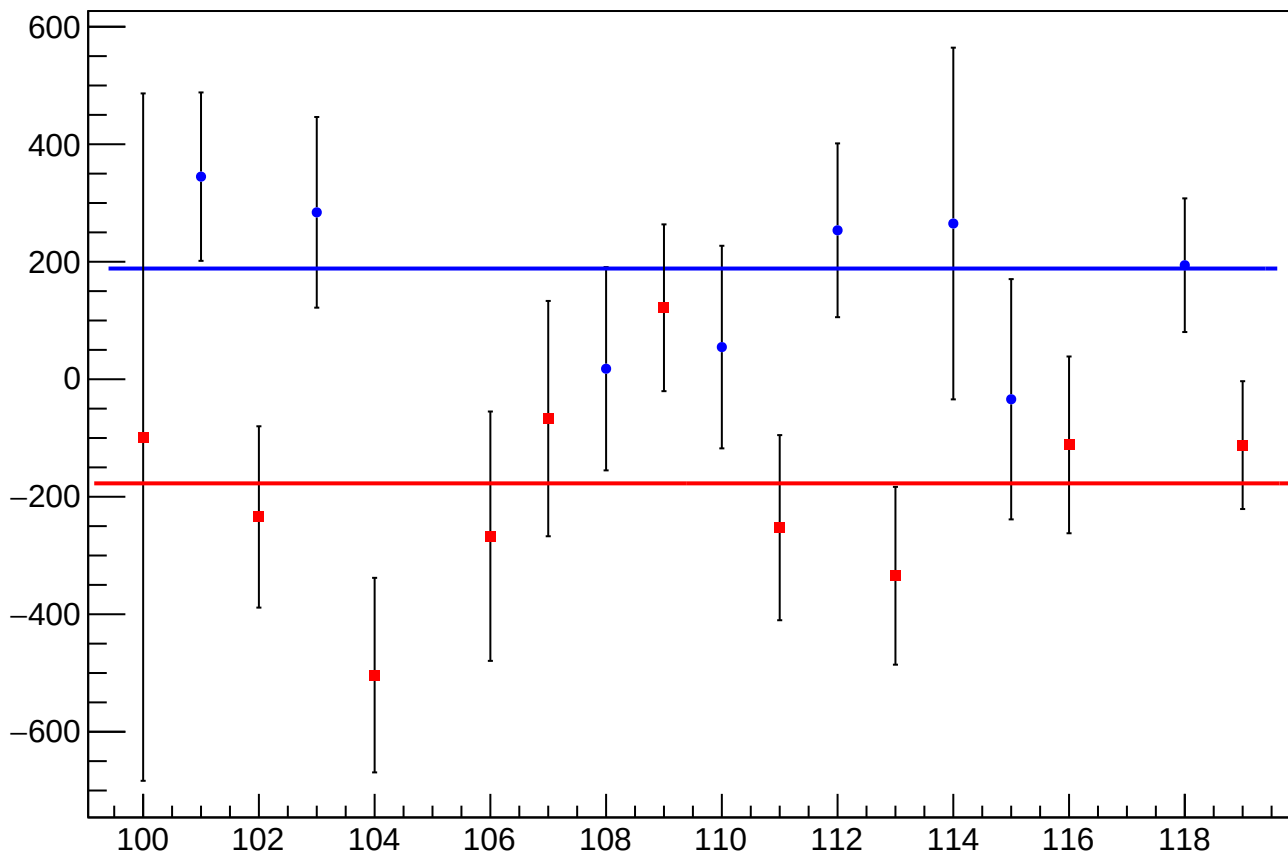
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2200627.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 188.454 $\pm$ 56.635  $\chi^2$ /NDF: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -177.201 $\pm$ 50.586  $\chi^2$ /NDF: 10.8/9

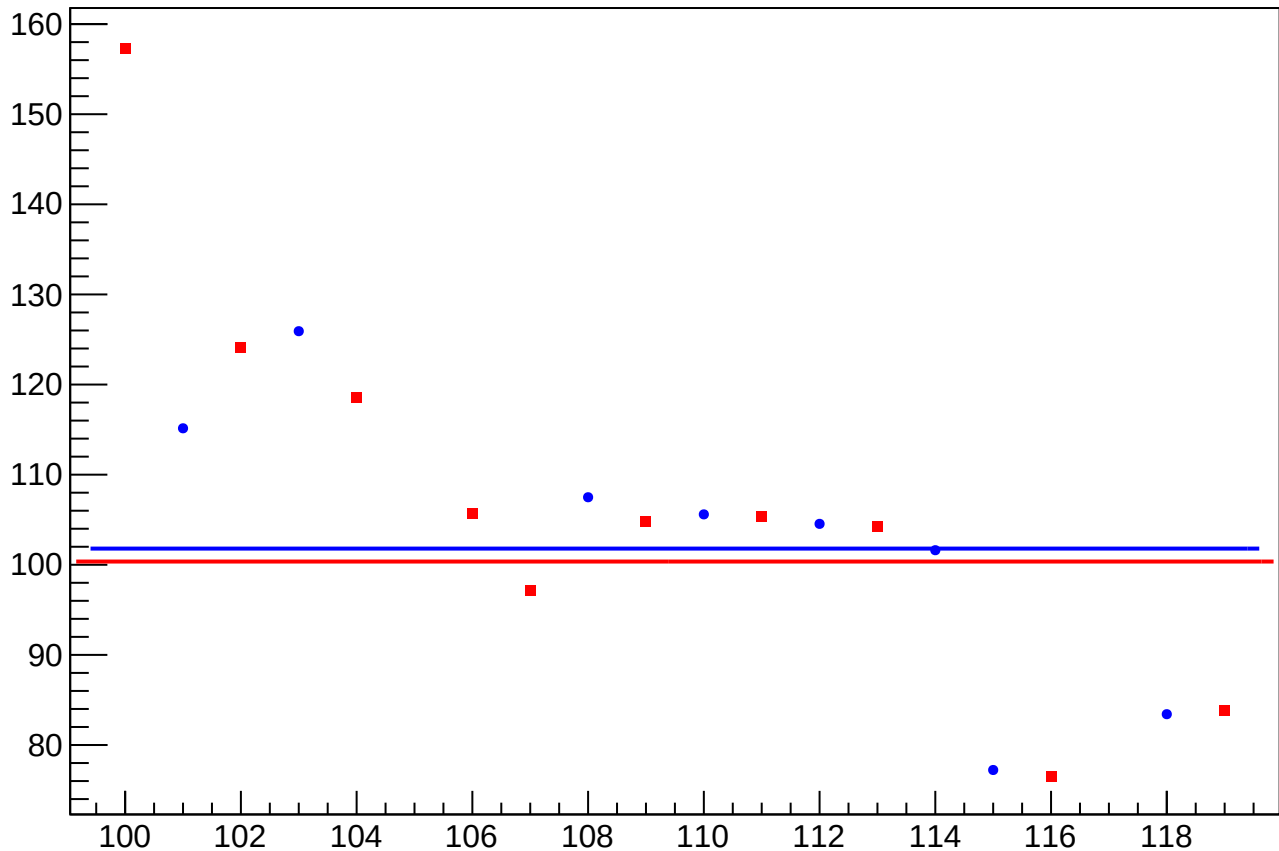
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.935 $\pm$ 37.728  $\chi^2$ /NDF: 38.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 101.797 $\pm$ 0.040  $\chi^2$ /NDF: 146441.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 100.360 $\pm$ 0.036  $\chi^2$ /NDF: 194006.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

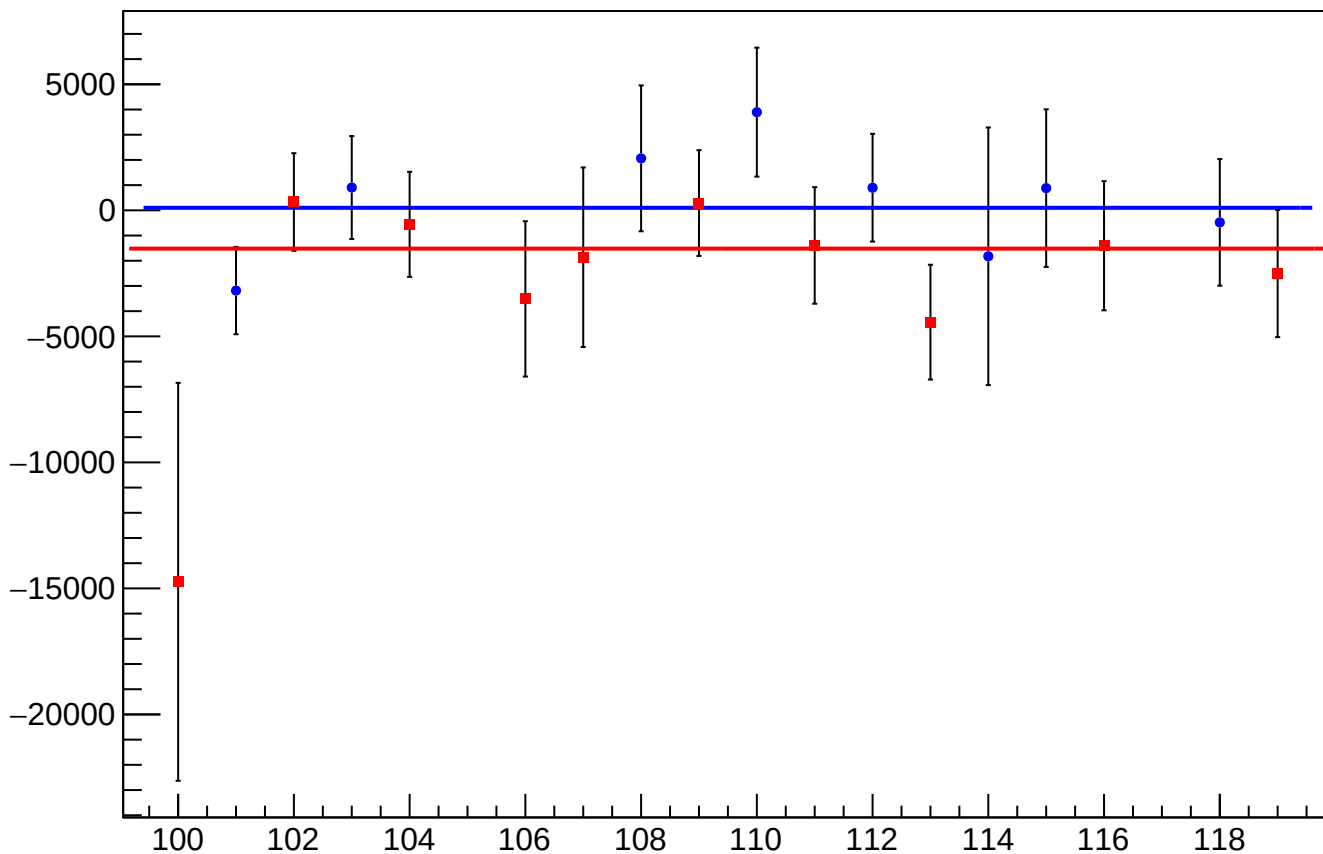
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 100.997 $\pm$ 0.027  $\chi^2$ /NDF: 341164.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_24\_68\_dd\_reg\_correction\_mean vs Slug



Right In: 100.621+/-856.395  $\chi^2/\text{NDF}$ : 6.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1518.210+/-787.202  $\chi^2/\text{NDF}$ : 6.9/9

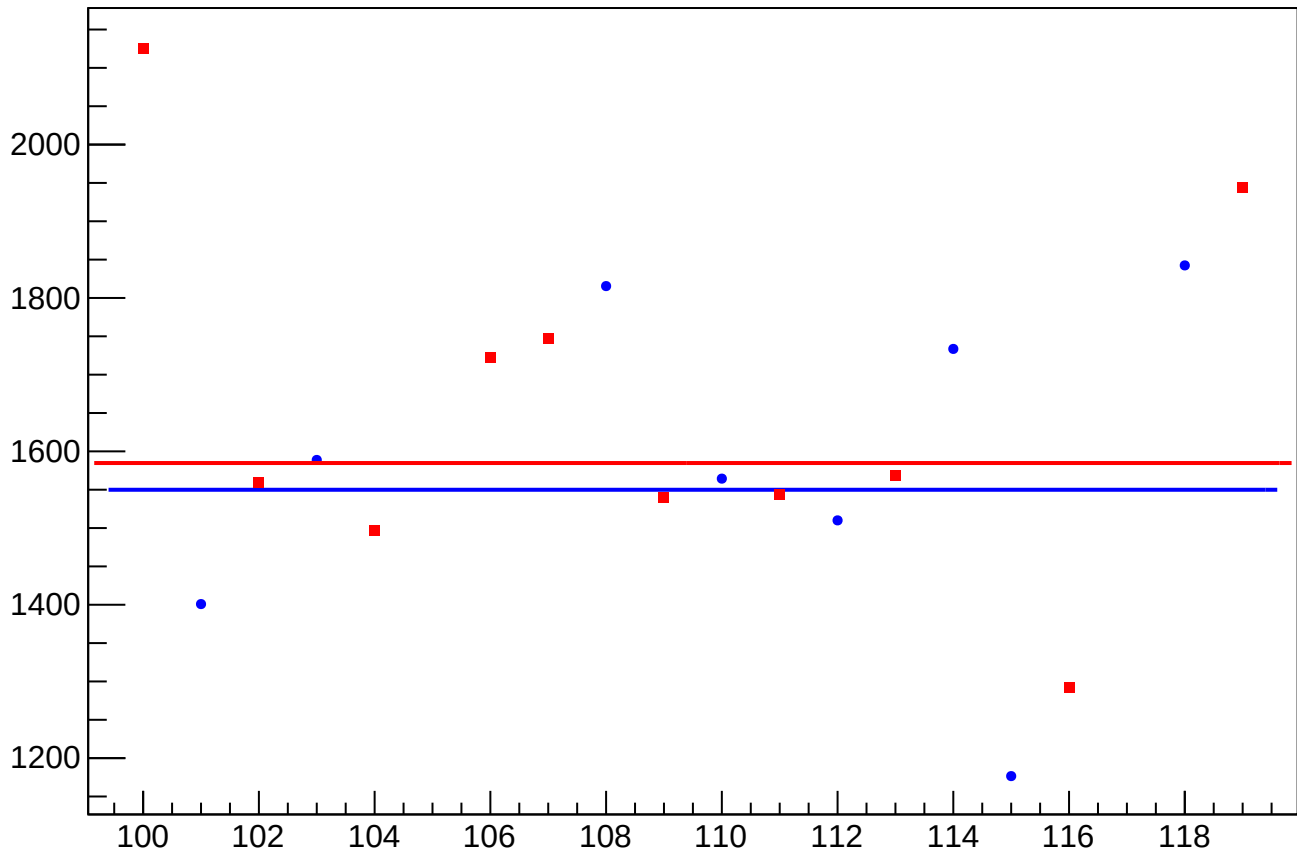
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -776.824+/-579.556  $\chi^2/\text{NDF}$ : 15.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_reg\_correction\_rms vs Slug



Right In: 1549.922+/-0.606  $\chi^2/\text{NDF}$ : 91359.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1584.786+/-0.557  $\chi^2/\text{NDF}$ : 89818.7/9

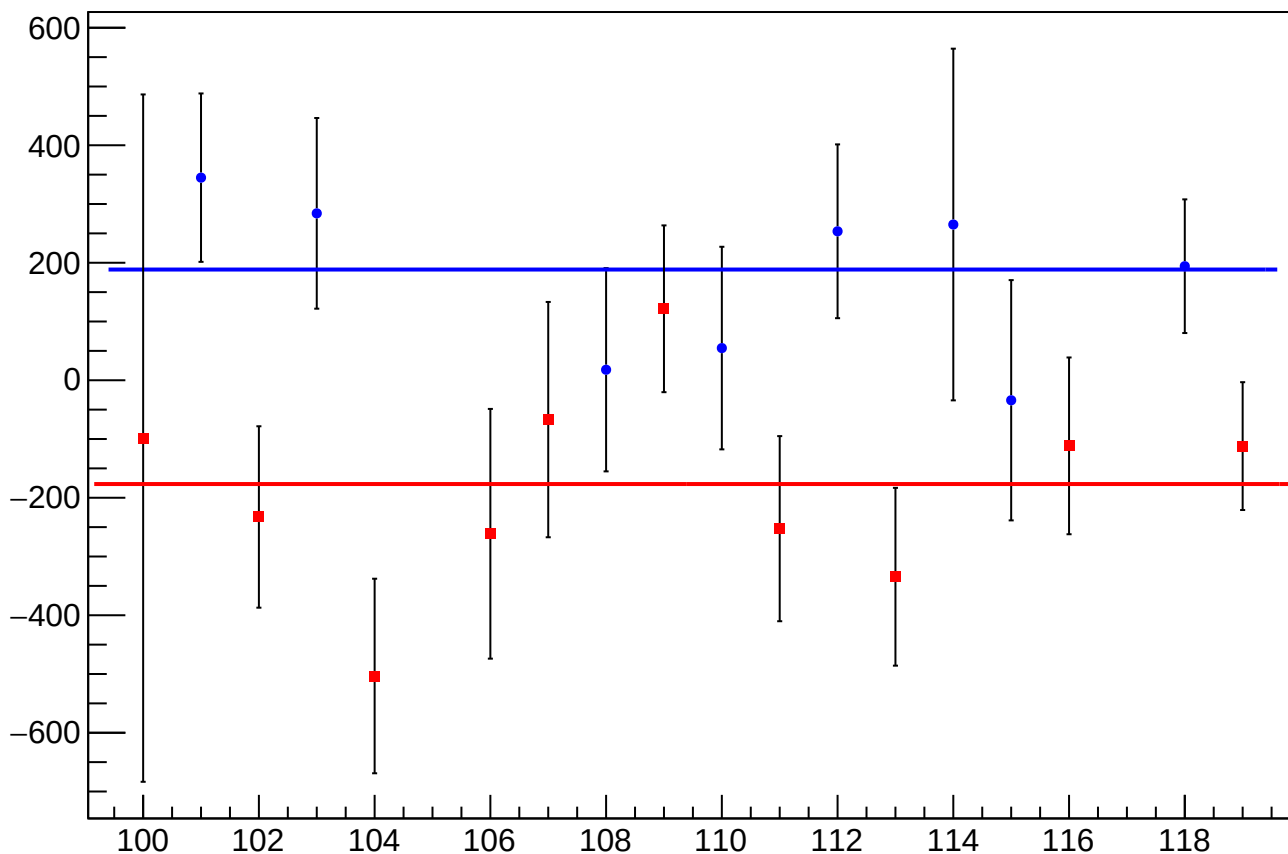
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1568.819+/-0.410  $\chi^2/\text{NDF}$ : 182975.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 188.455+/-56.635  $\chi^2/\text{NDF}$ : 4.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -176.650+/-50.593  $\chi^2/\text{NDF}$ : 10.8/9

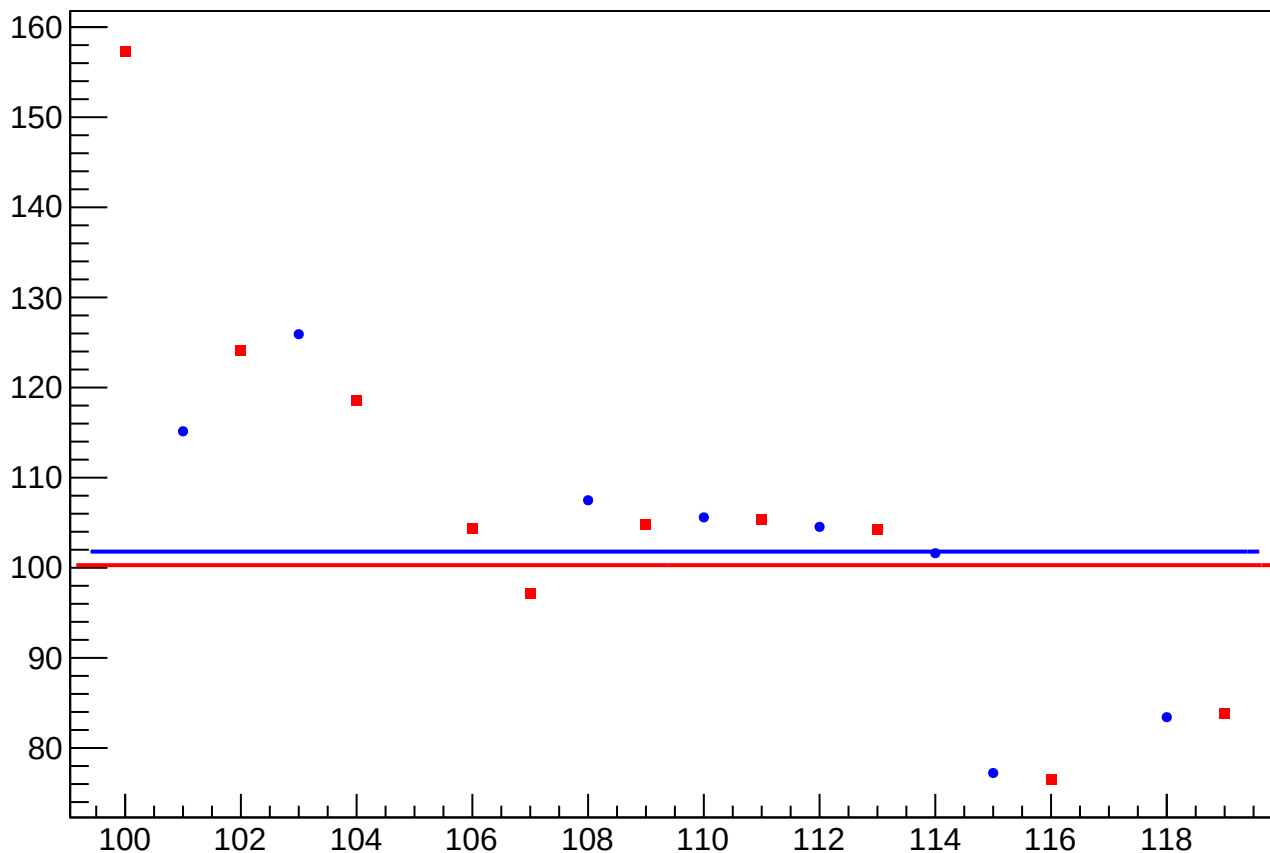
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.602+/-37.731  $\chi^2/\text{NDF}$ : 38.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 101.797 $\pm$ 0.040  $\chi^2$ /NDF: 146442.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 100.290 $\pm$ 0.036  $\chi^2$ /NDF: 193654.2/9

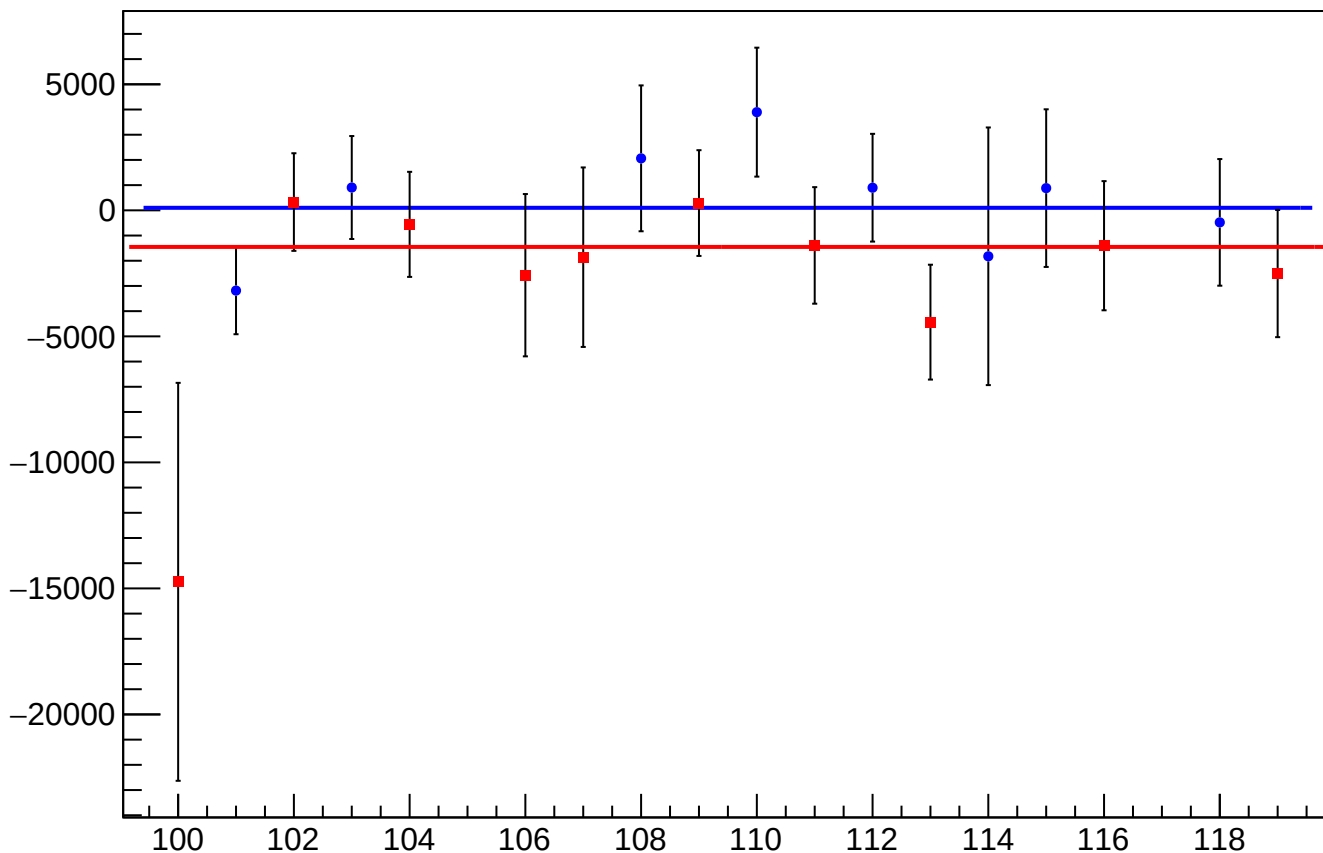
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 100.959 $\pm$ 0.027  $\chi^2$ /NDF: 340884.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_cor\_correction\_mean vs Slug



Right In: 100.702+/-856.400  $\chi^2$ /NDF: 6.8/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1451.507+/-789.425  $\chi^2$ /NDF: 6.6/9

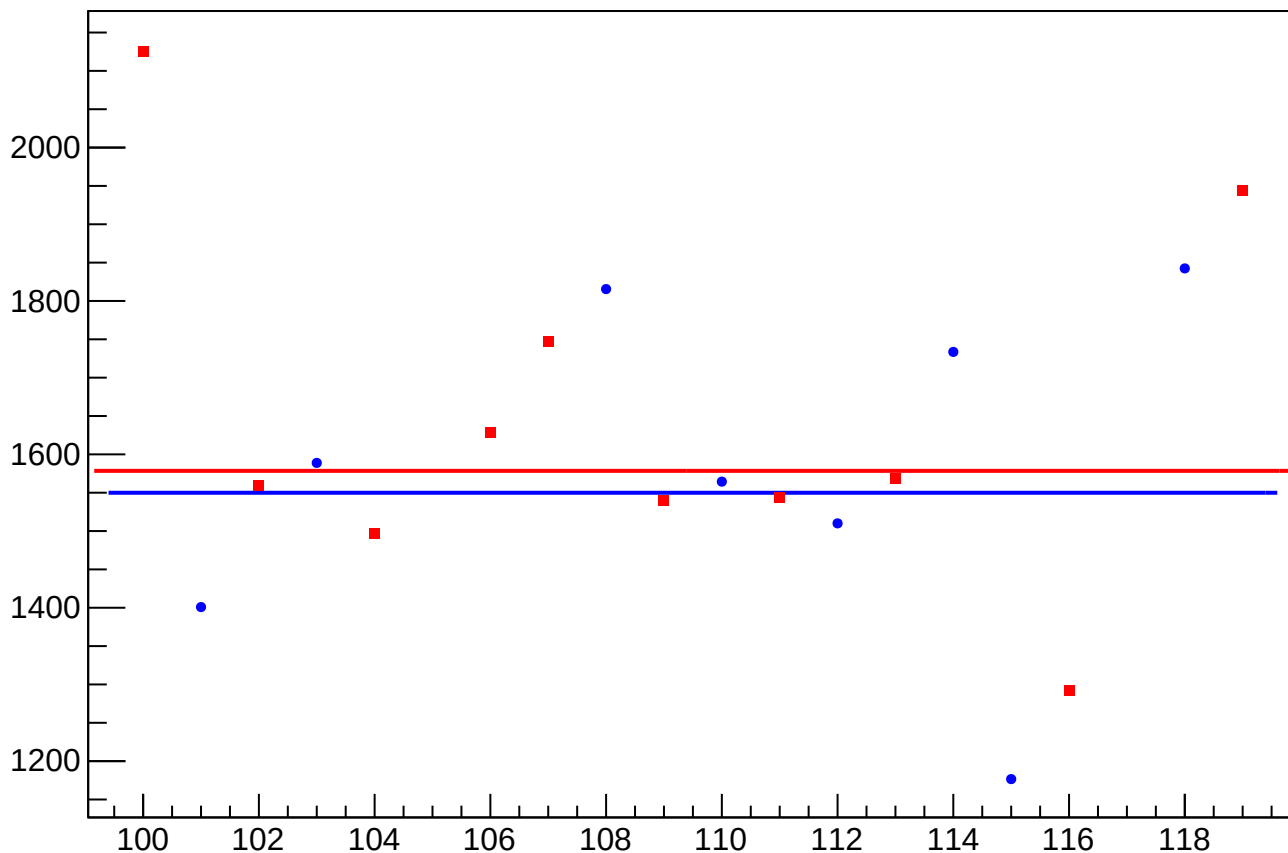
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -738.464+/-580.443  $\chi^2$ /NDF: 15.2/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_cor\_correction\_rms vs Slug



Right In: 1549.932 $\pm$ 0.606  $\chi^2$ /NDF: 91362.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1578.482 $\pm$ 0.558  $\chi^2$ /NDF: 86051.9/9

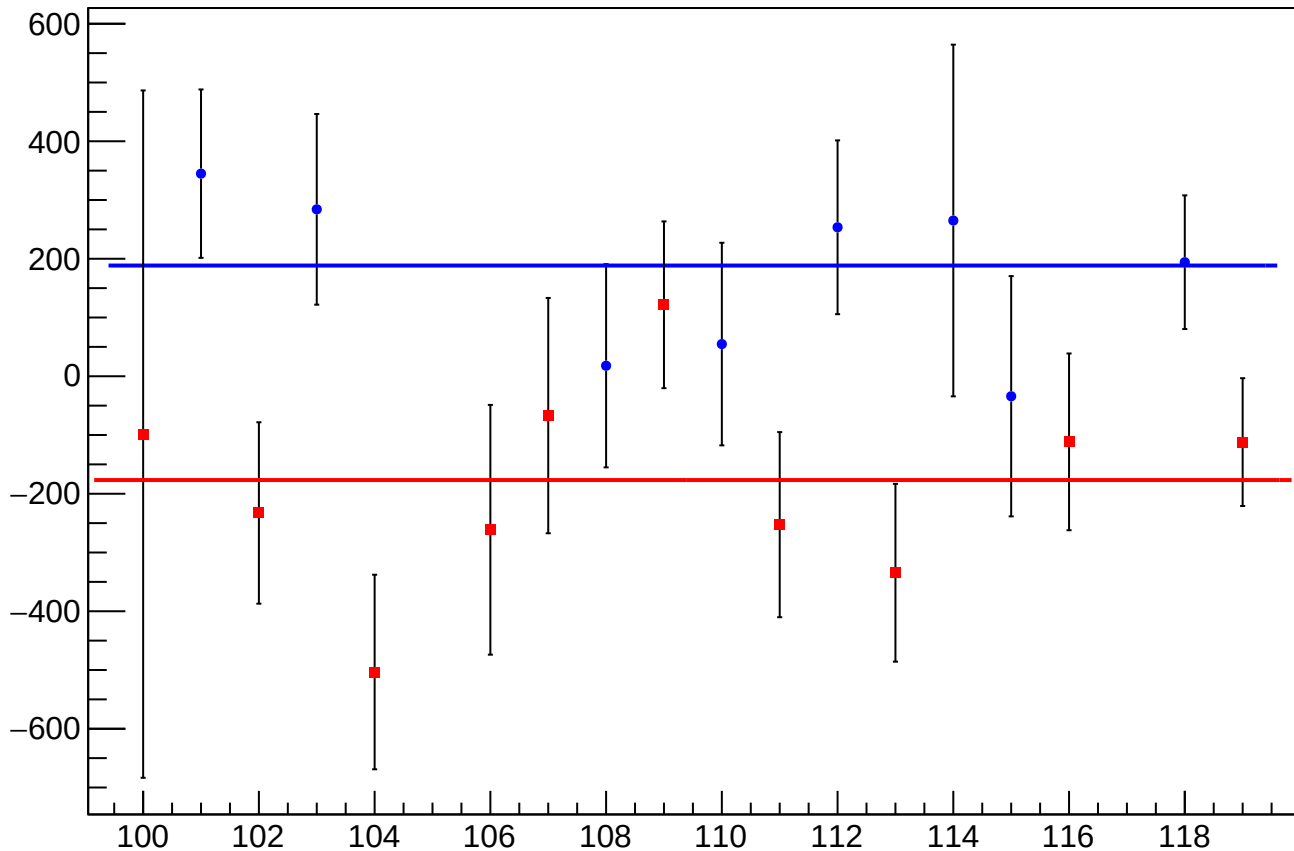
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1565.367 $\pm$ 0.410  $\chi^2$ /NDF: 178615.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 188.455+/-56.635  $\chi^2/\text{NDF}$ : 4.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -176.650+/-50.593  $\chi^2/\text{NDF}$ : 10.8/9

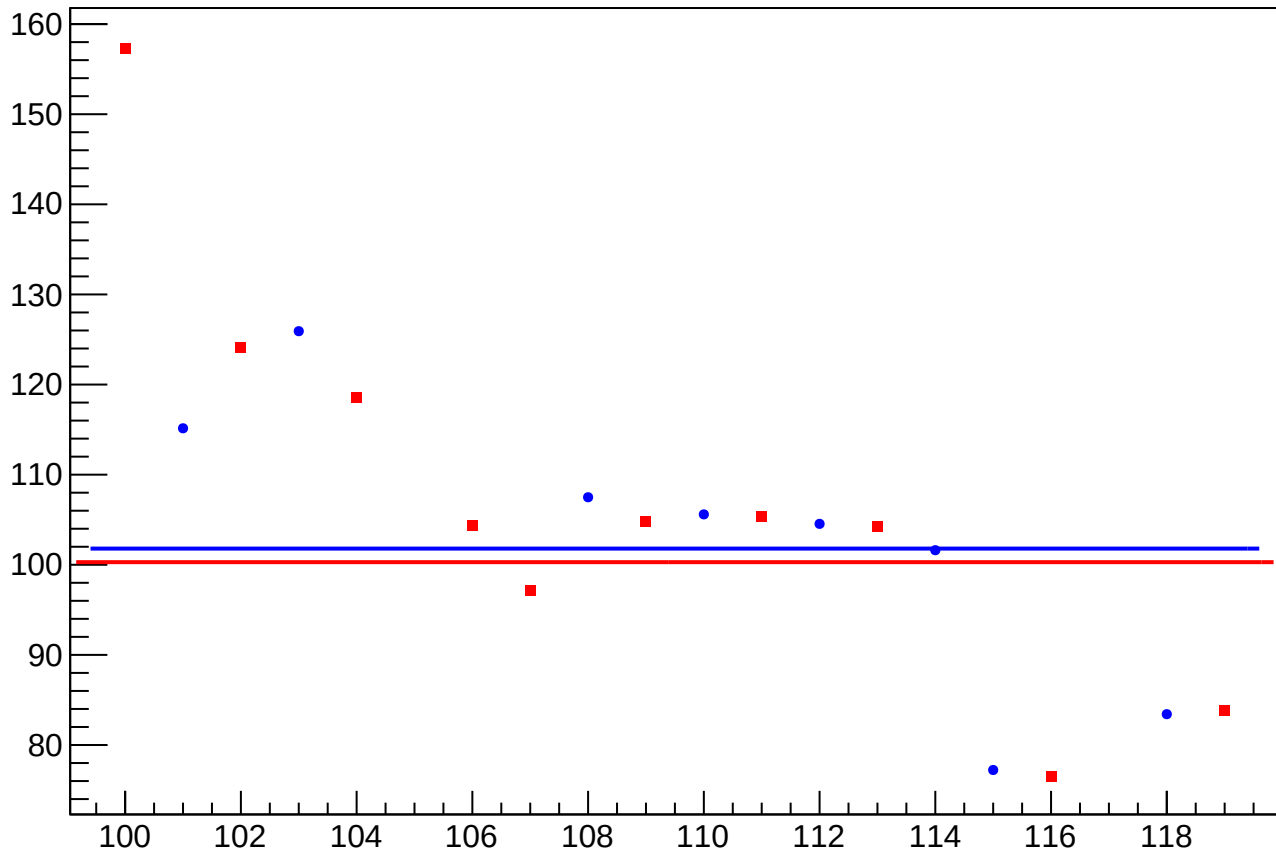
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.602+/-37.731  $\chi^2/\text{NDF}$ : 38.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 101.797 $\pm$ 0.040  $\chi^2$ /NDF: 146442.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 100.290 $\pm$ 0.036  $\chi^2$ /NDF: 193654.2/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

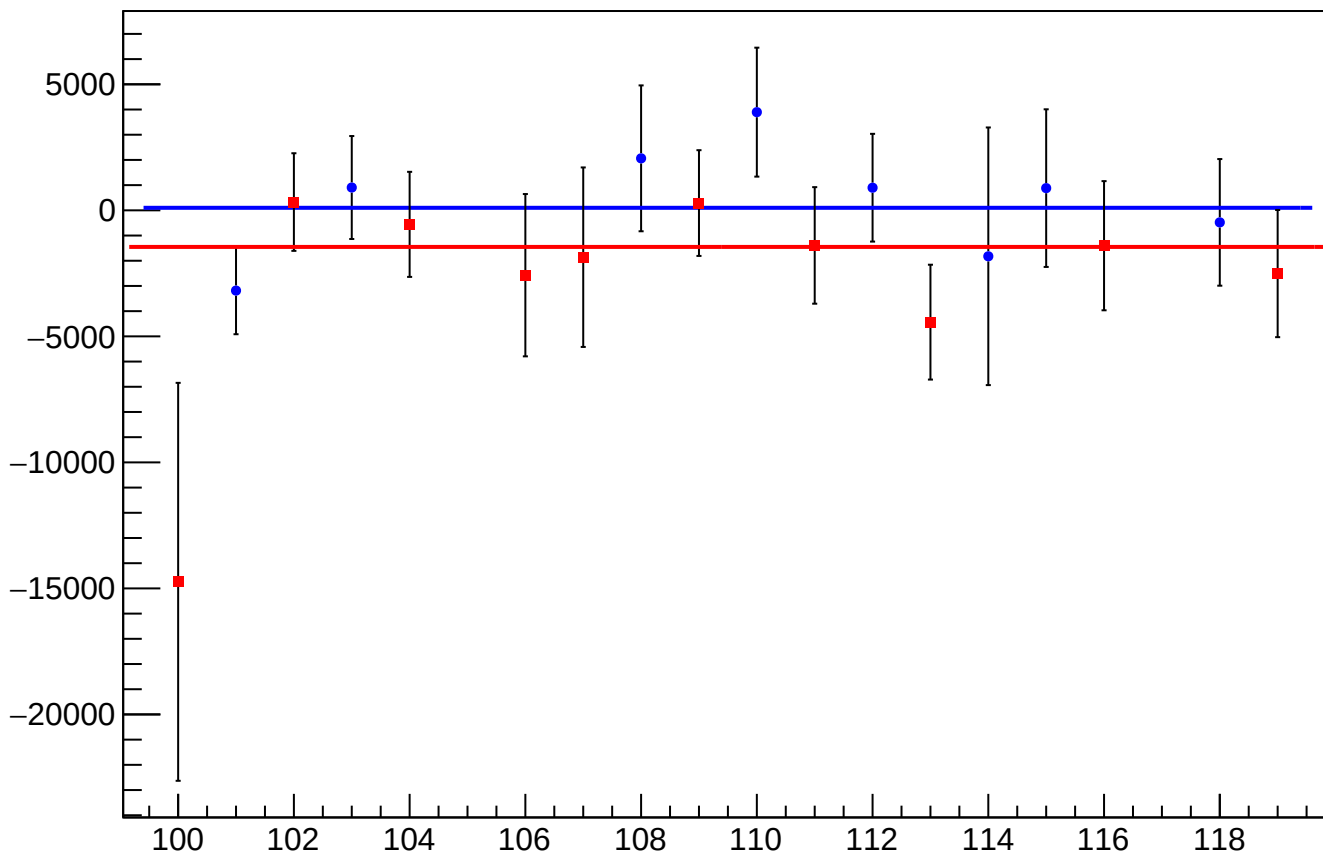
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 100.959 $\pm$ 0.027  $\chi^2$ /NDF: 340884.7/17

- 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: 100.702 $\pm$ 856.400  $\chi^2$ /NDF: 6.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1451.507 $\pm$ 789.425  $\chi^2$ /NDF: 6.6/9

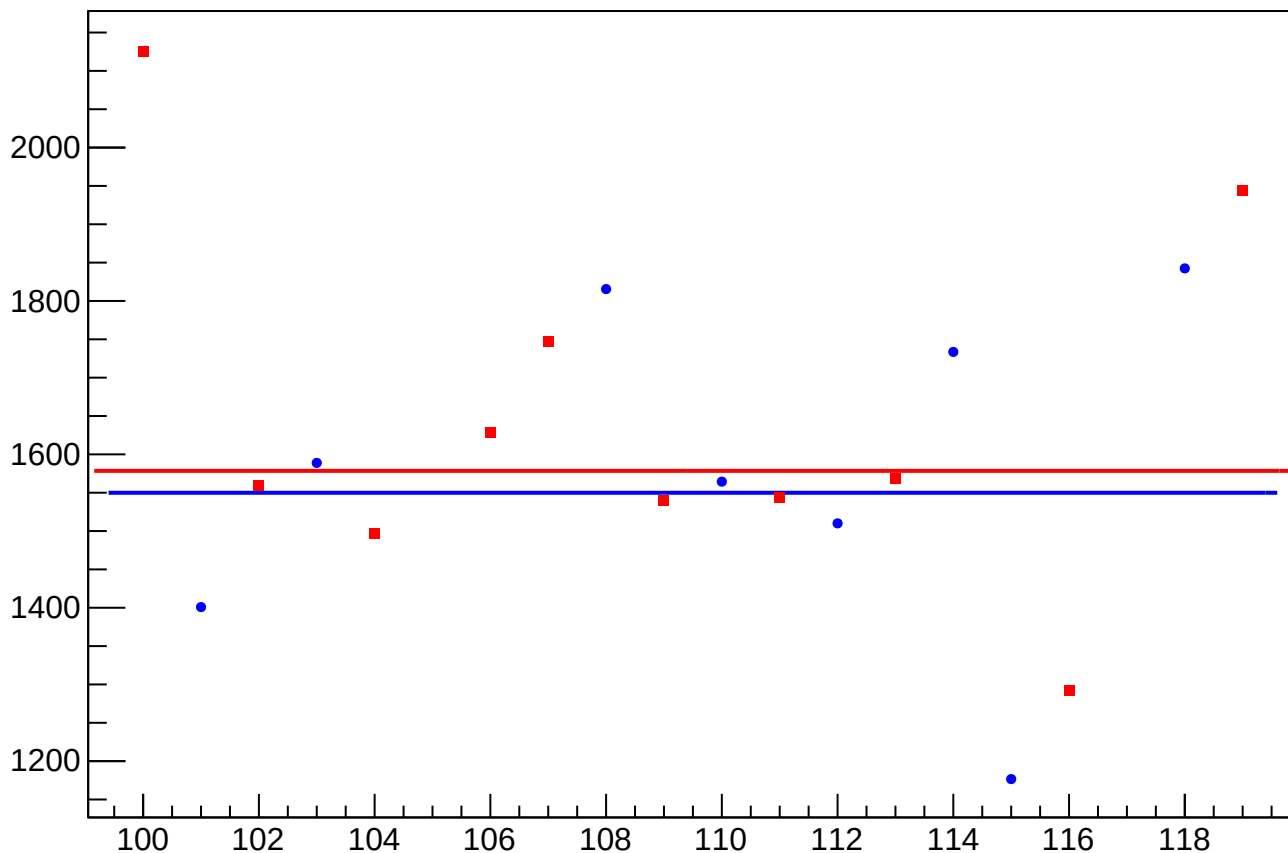
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -738.464 $\pm$ 580.443  $\chi^2$ /NDF: 15.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1549.932+/-0.606  $\chi^2/\text{NDF}$ : 91362.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1578.482+/-0.558  $\chi^2/\text{NDF}$ : 86051.9/9

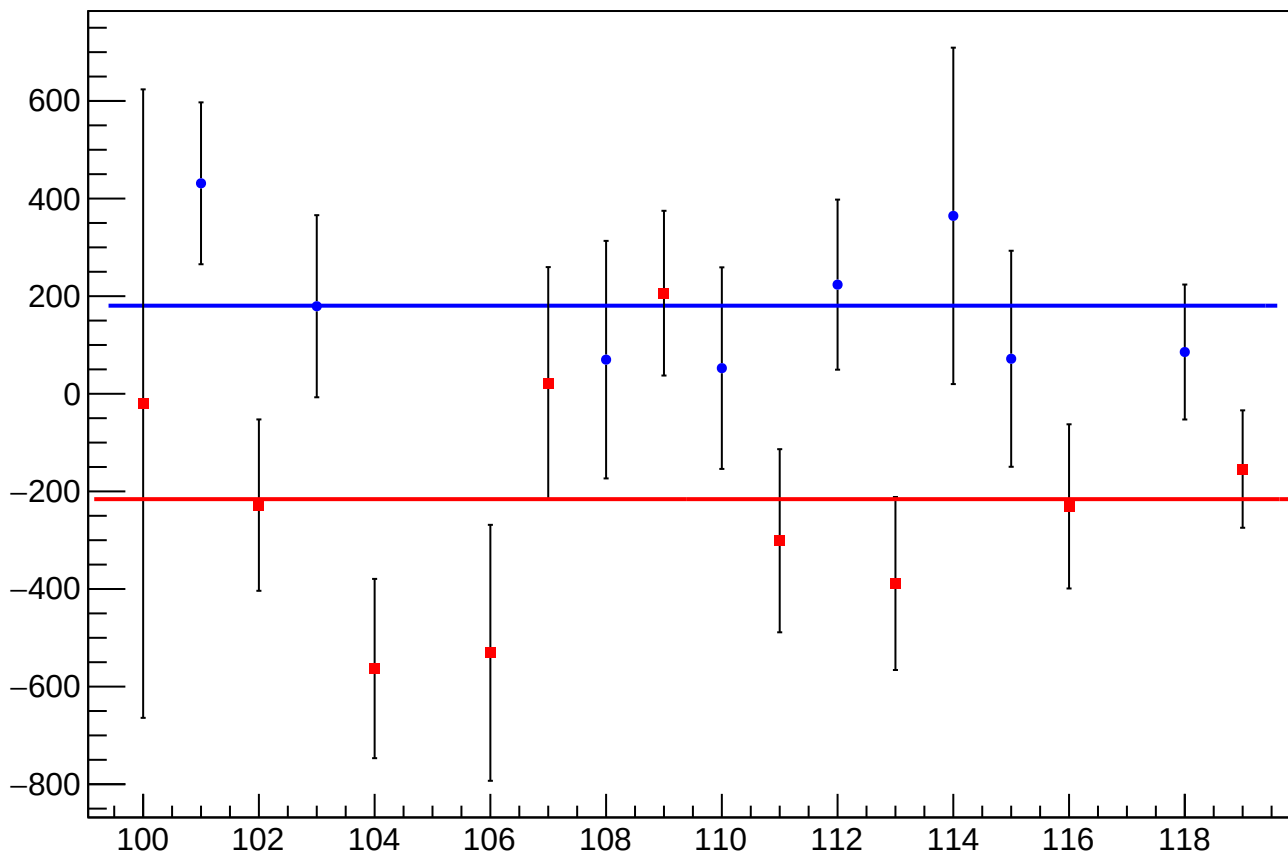
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1565.367+/-0.410  $\chi^2/\text{NDF}$ : 178615.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 180.524 $\pm$ 67.496  $\chi^2/\text{NDF}$ : 3.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -215.888 $\pm$ 58.084  $\chi^2/\text{NDF}$ : 13.8/9

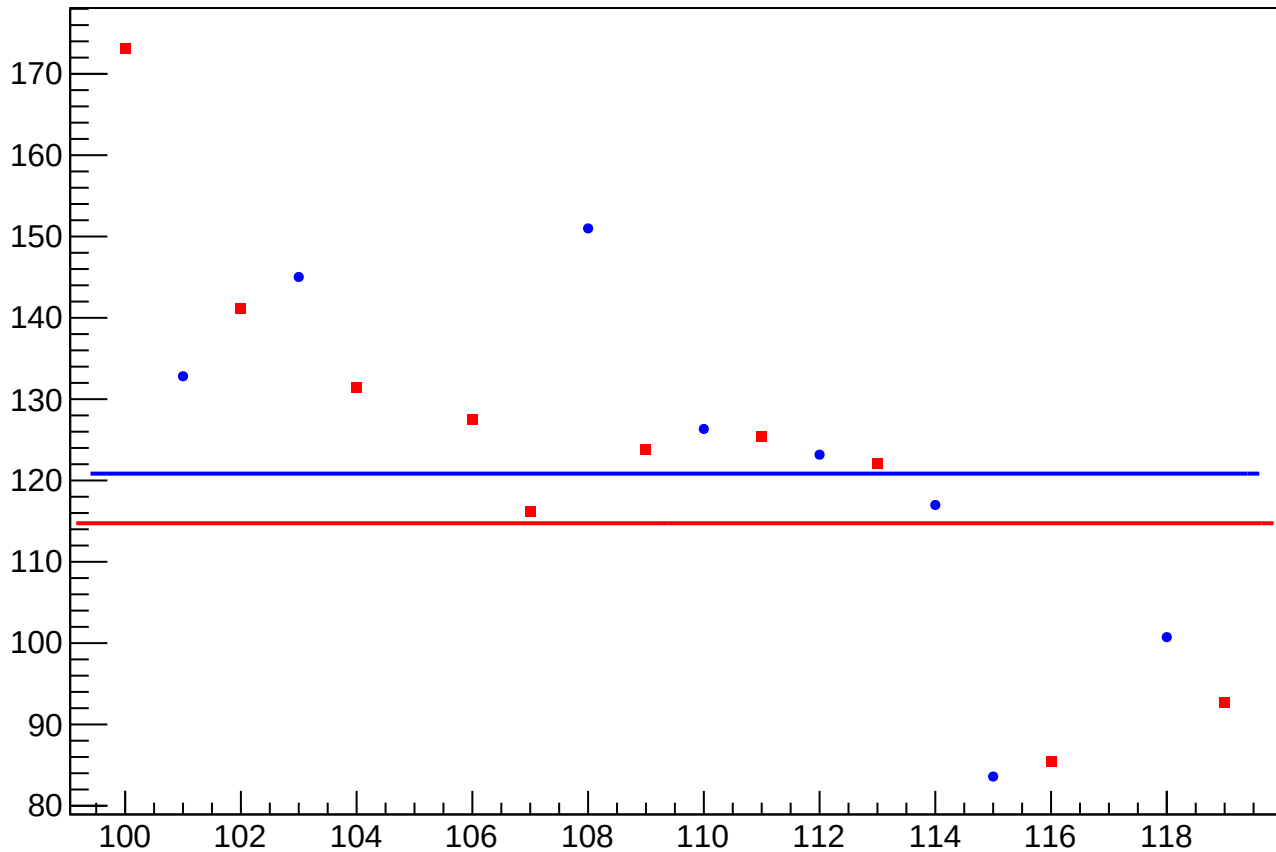
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -47.228 $\pm$ 44.026  $\chi^2/\text{NDF}$ : 37.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 120.844 $\pm$ 0.048  $\chi^2$ /NDF: 175693.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 114.743 $\pm$ 0.041  $\chi^2$ /NDF: 226514.7/9

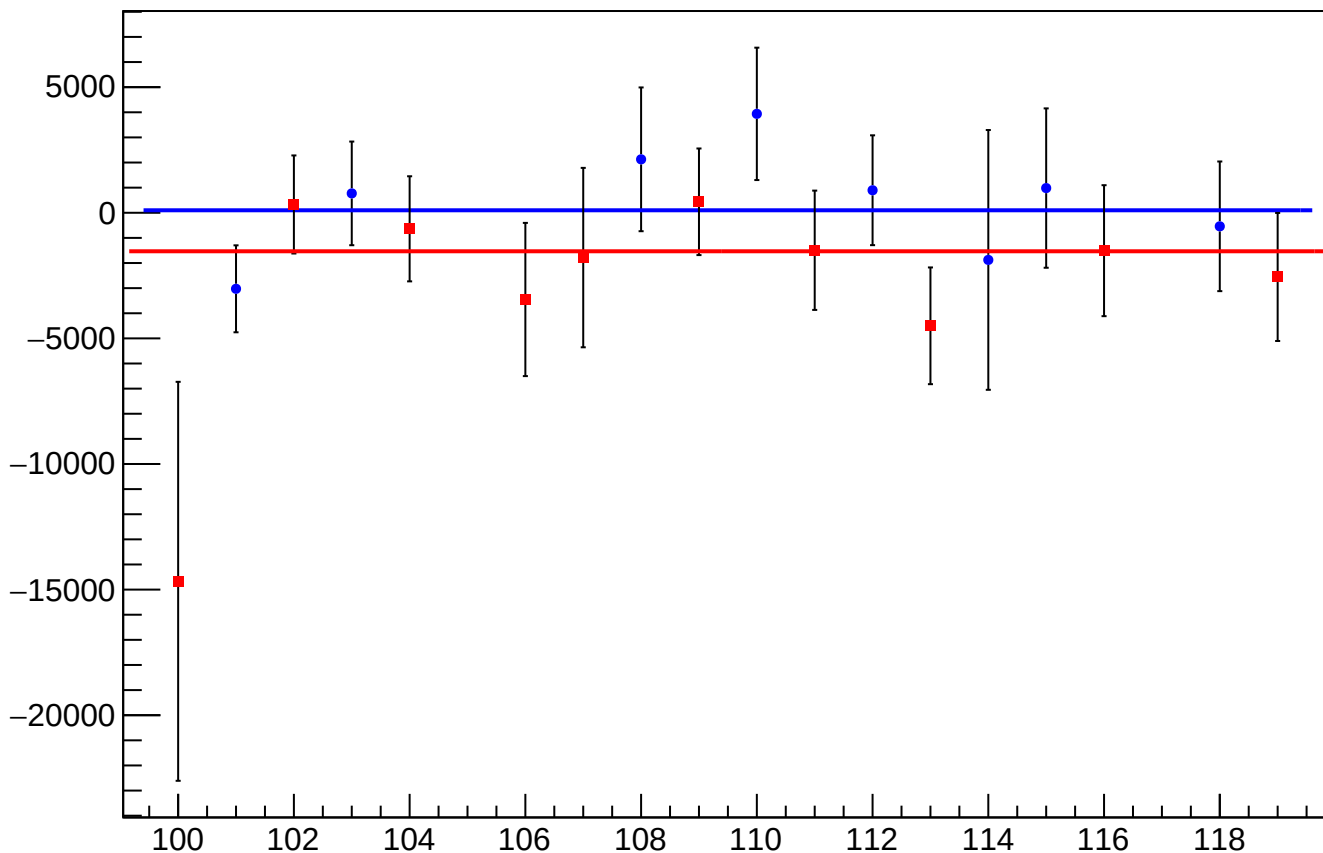
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 117.339 $\pm$ 0.031  $\chi^2$ /NDF: 411596.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_dit\_correction\_mean vs Slug



Right In: 99.239+/-866.686  $\chi^2/\text{NDF}$ : 6.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1532.531+/-795.849  $\chi^2/\text{NDF}$ : 6.9/9

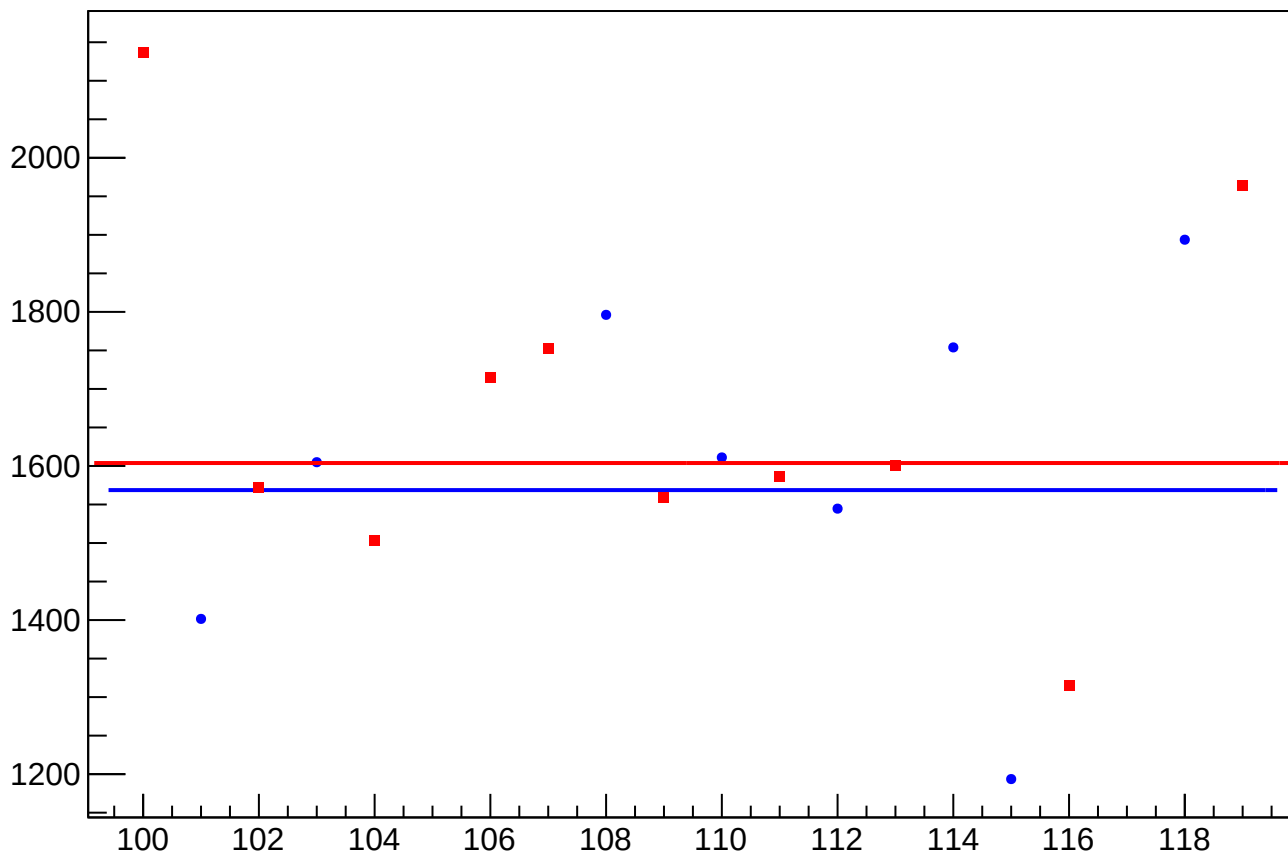
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -786.046+/-586.196  $\chi^2/\text{NDF}$ : 15.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_24\_68\_dd\_dit\_correction\_rms vs Slug



Right In: 1568.698 $\pm$ 0.613  $\chi^2$ /NDF: 94943.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1603.831 $\pm$ 0.563  $\chi^2$ /NDF: 85853.6/9

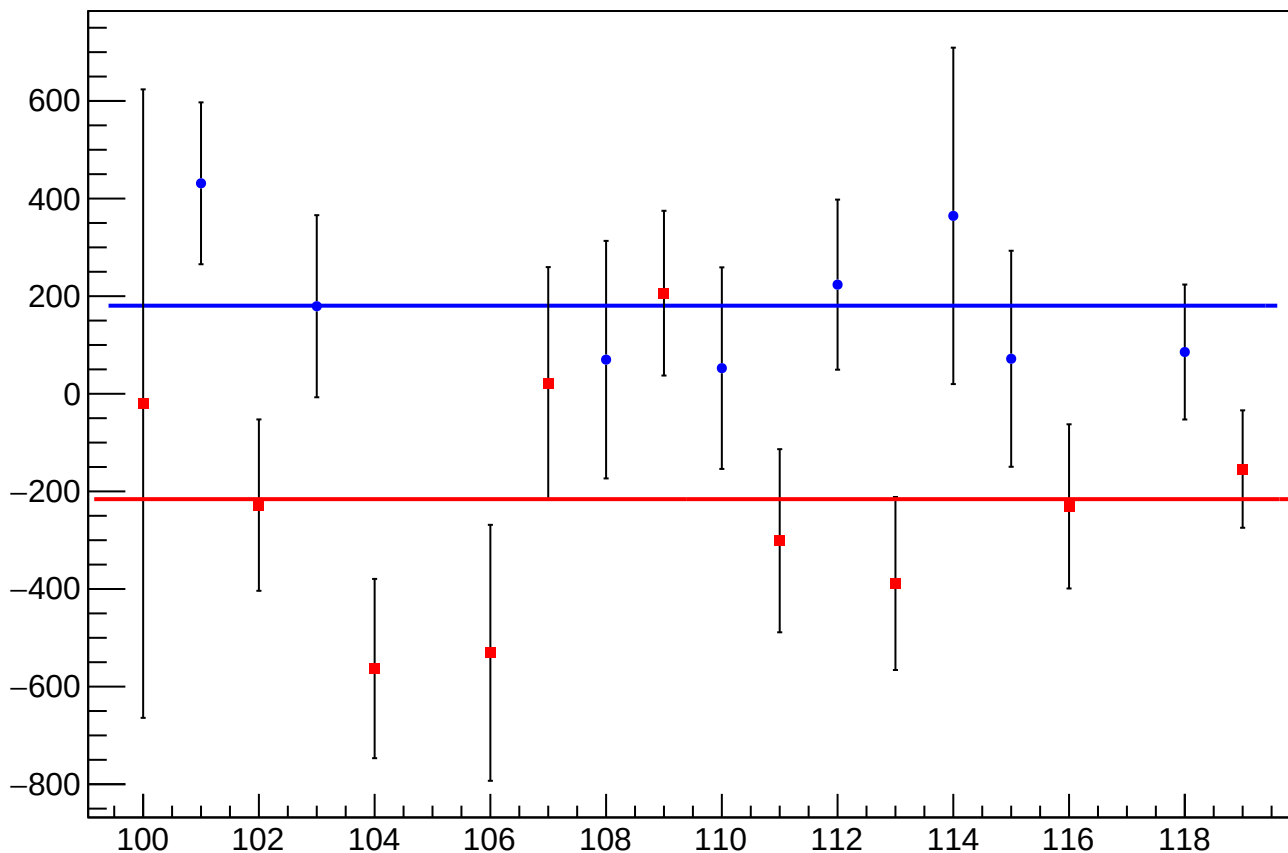
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1587.759 $\pm$ 0.415  $\chi^2$ /NDF: 182580.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 180.520 $\pm$ 67.496  $\chi^2$ /NDF: 3.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -215.884 $\pm$ 58.083  $\chi^2$ /NDF: 13.8/9

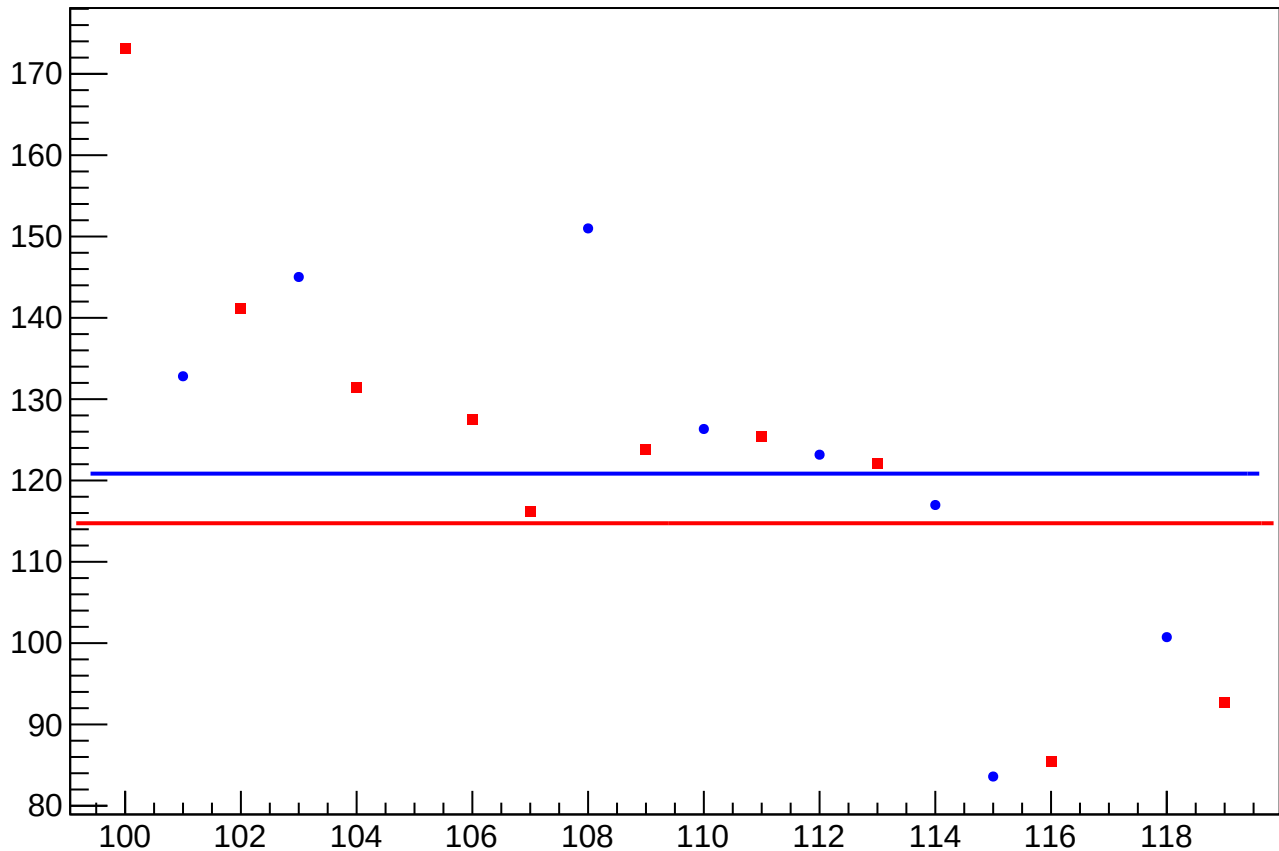
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -47.226 $\pm$ 44.026  $\chi^2$ /NDF: 37.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 120.843 $\pm$ 0.048  $\chi^2$ /NDF: 175697.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 114.742 $\pm$ 0.041  $\chi^2$ /NDF: 226513.8/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

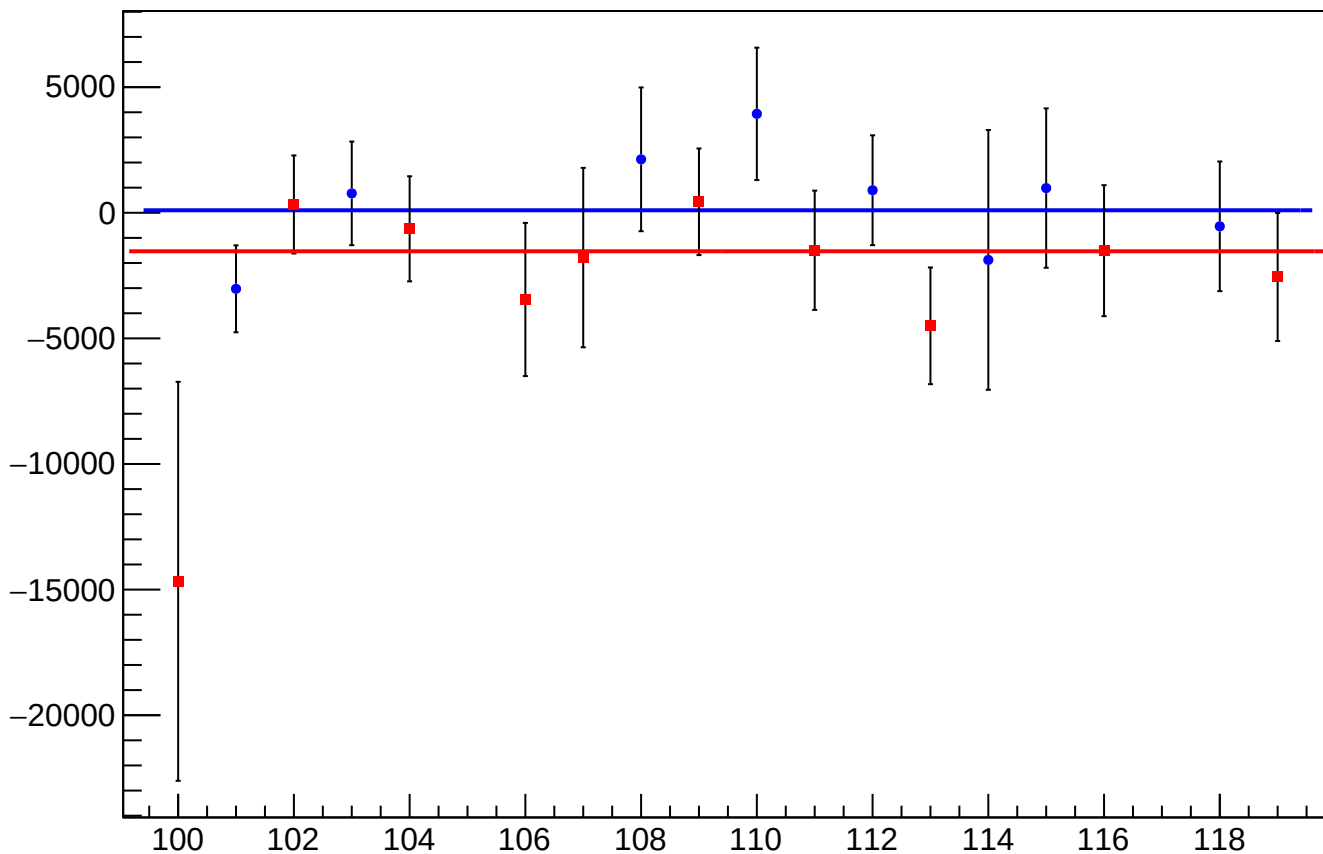
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 117.338 $\pm$ 0.031  $\chi^2$ /NDF: 411598.0/17

- 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: 99.240+/-866.685  $\chi^2/\text{NDF}$ : 6.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1532.528+/-795.848  $\chi^2/\text{NDF}$ : 6.9/9

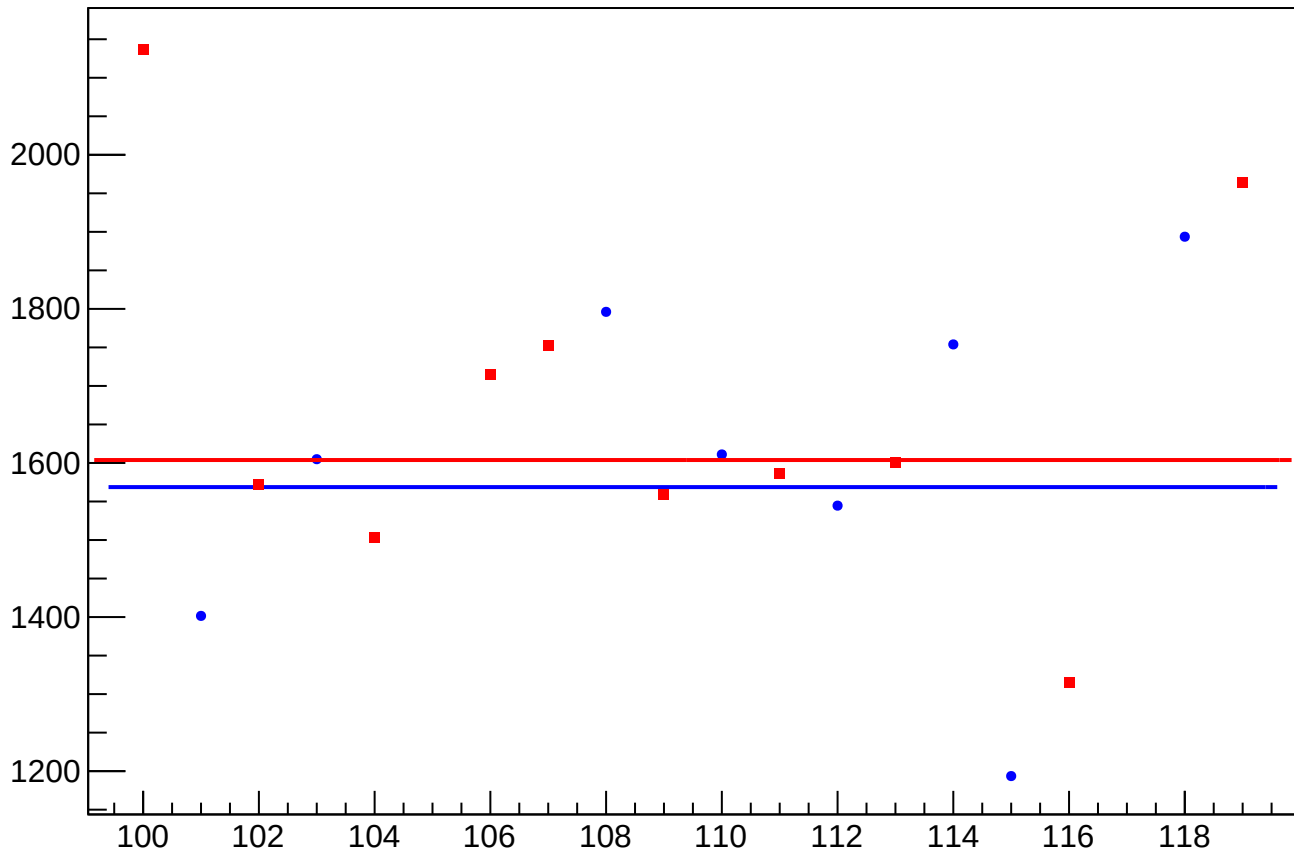
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -786.044+/-586.195  $\chi^2/\text{NDF}$ : 15.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1568.695 $\pm$ 0.613  $\chi^2$ /NDF: 94942.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1603.828 $\pm$ 0.563  $\chi^2$ /NDF: 85853.5/9

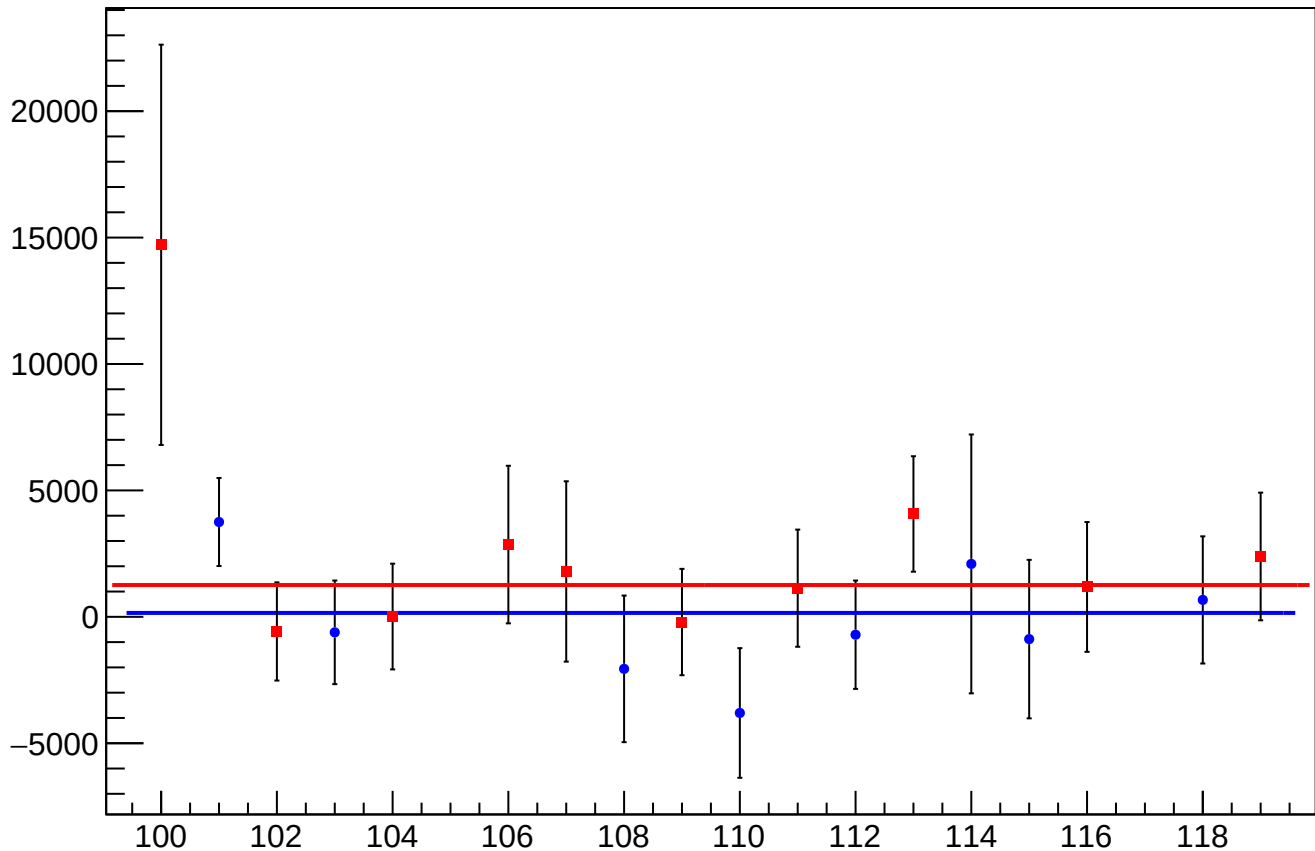
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1587.756 $\pm$ 0.415  $\chi^2$ /NDF: 182579.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 154.498+/-859.094  $\chi^2/\text{NDF}$ : 7.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1257.631+/-789.557  $\chi^2/\text{NDF}$ : 6.6/9

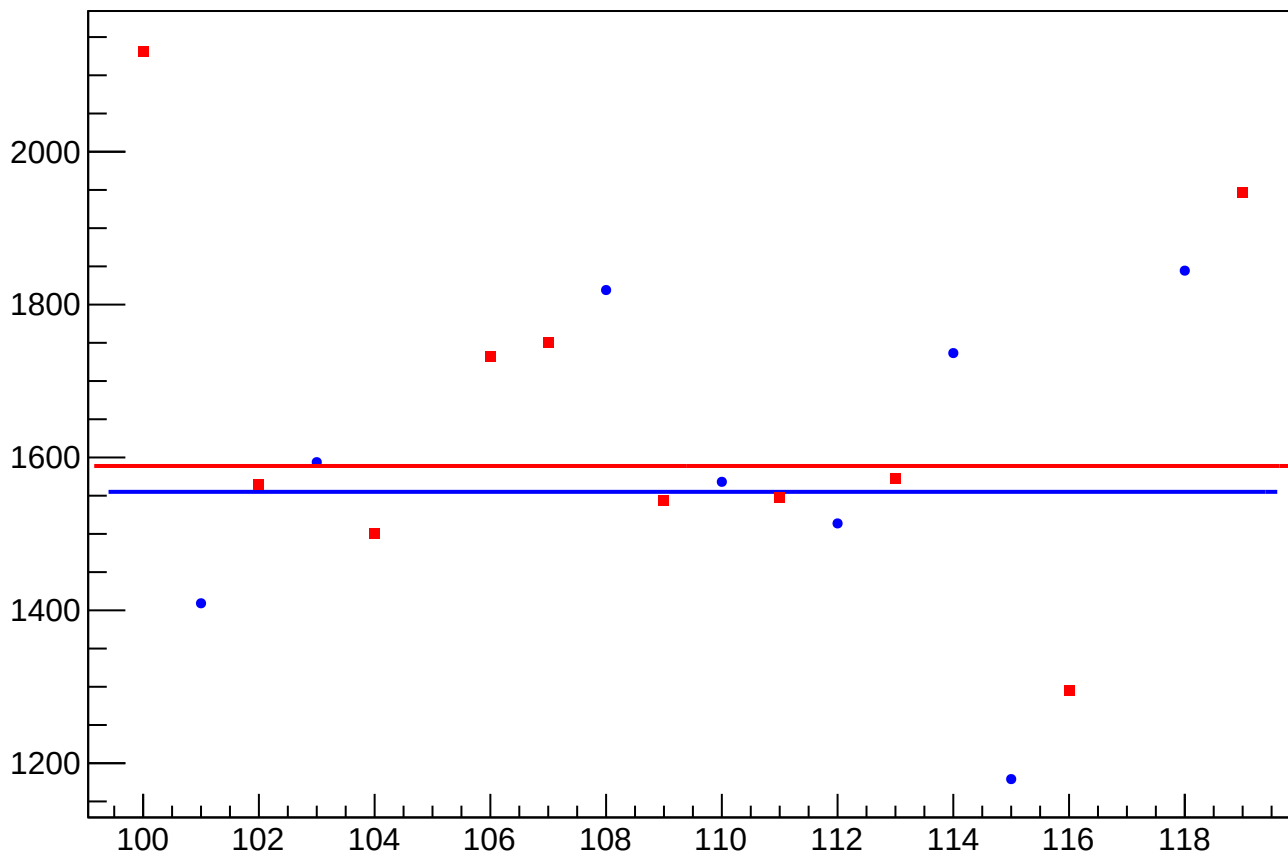
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 752.510+/-581.332  $\chi^2/\text{NDF}$ : 15.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 1555.026+/-0.607  $\chi^2/\text{NDF}$ : 89873.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1588.861+/-0.558  $\chi^2/\text{NDF}$ : 89516.8/9

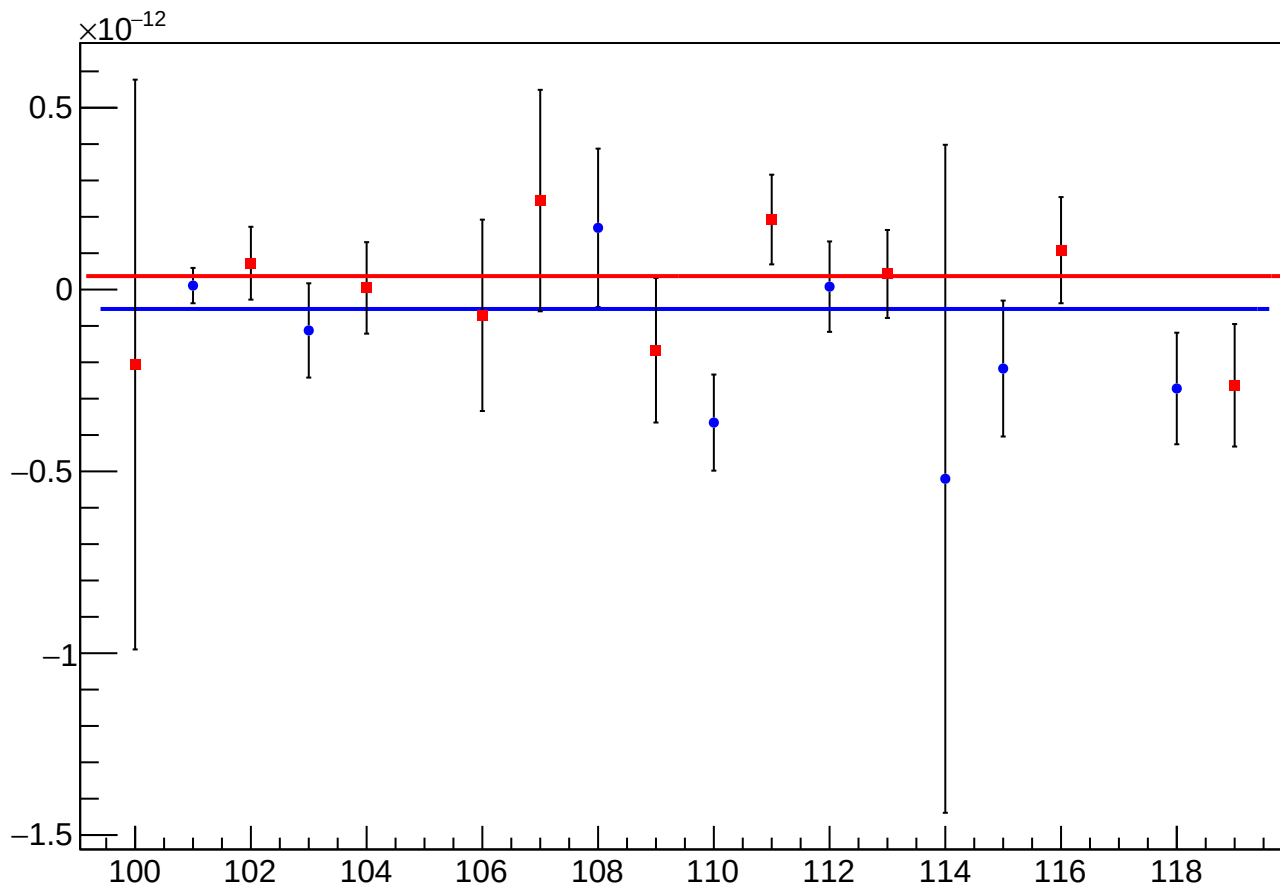
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1573.368+/-0.411  $\chi^2/\text{NDF}$ : 181071.7/17

- 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  $\chi^2/\text{NDF}$ : 11.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.0/9

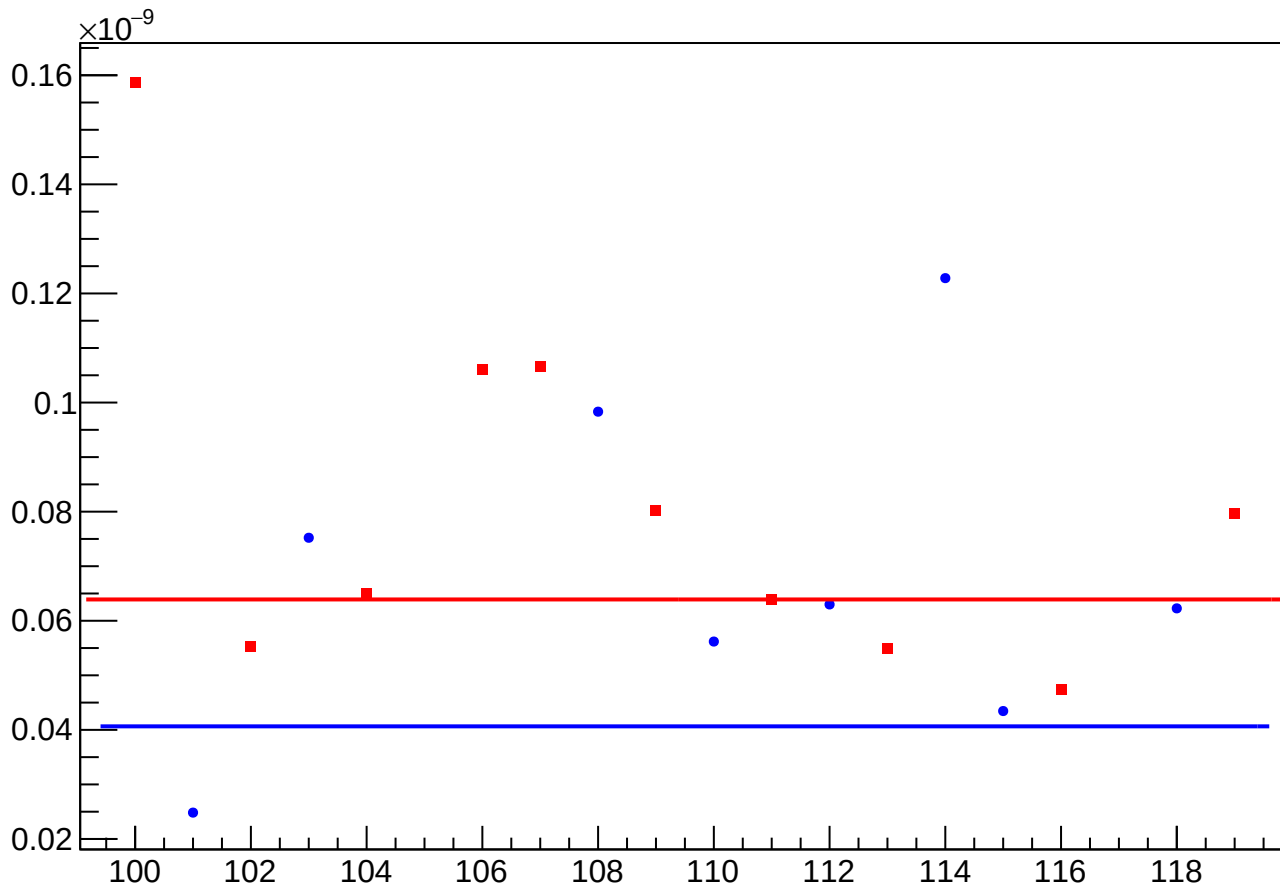
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 21.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 643074.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 202006.5/9

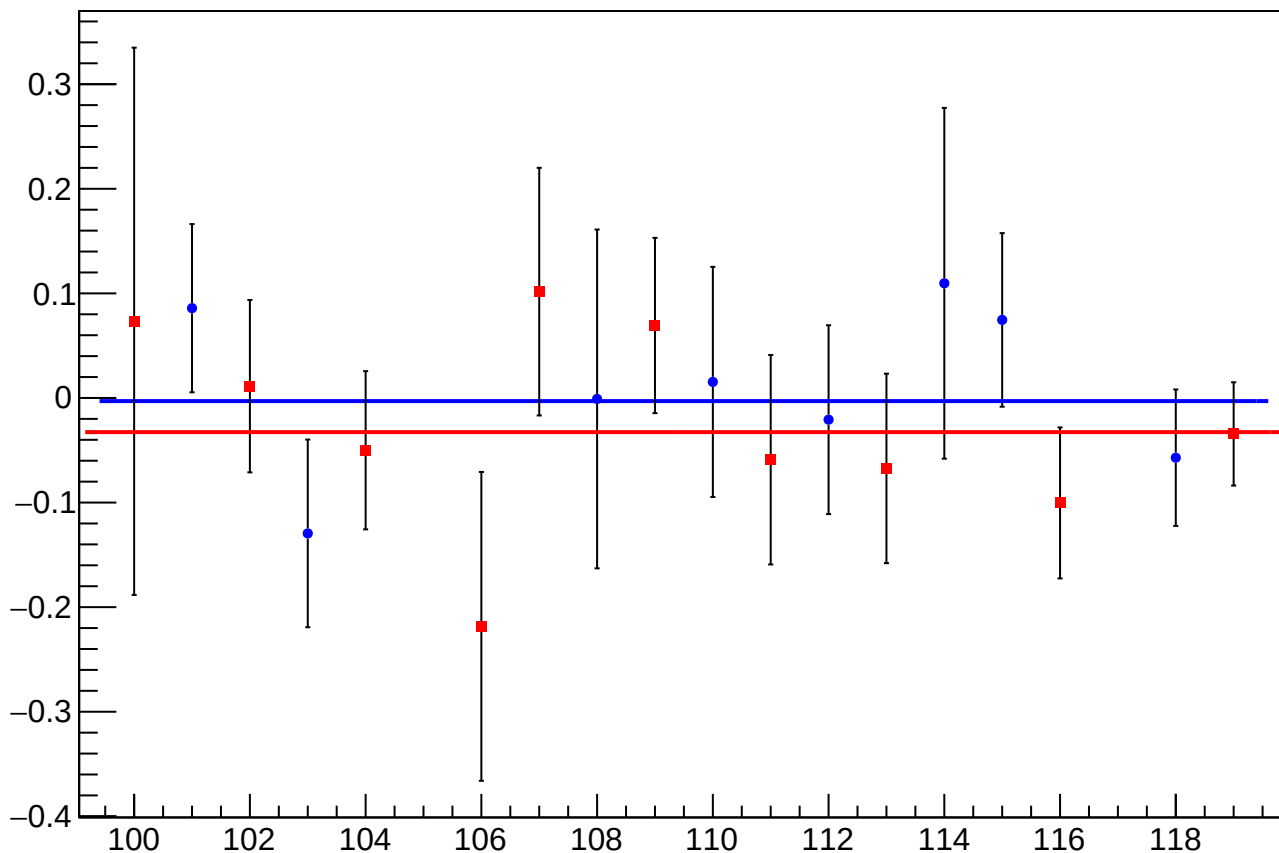
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1133761.1/17

- 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: -0.003 $\pm$ 0.033  $\chi^2$ /NDF: 5.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.033 $\pm$ 0.027  $\chi^2$ /NDF: 5.9/9

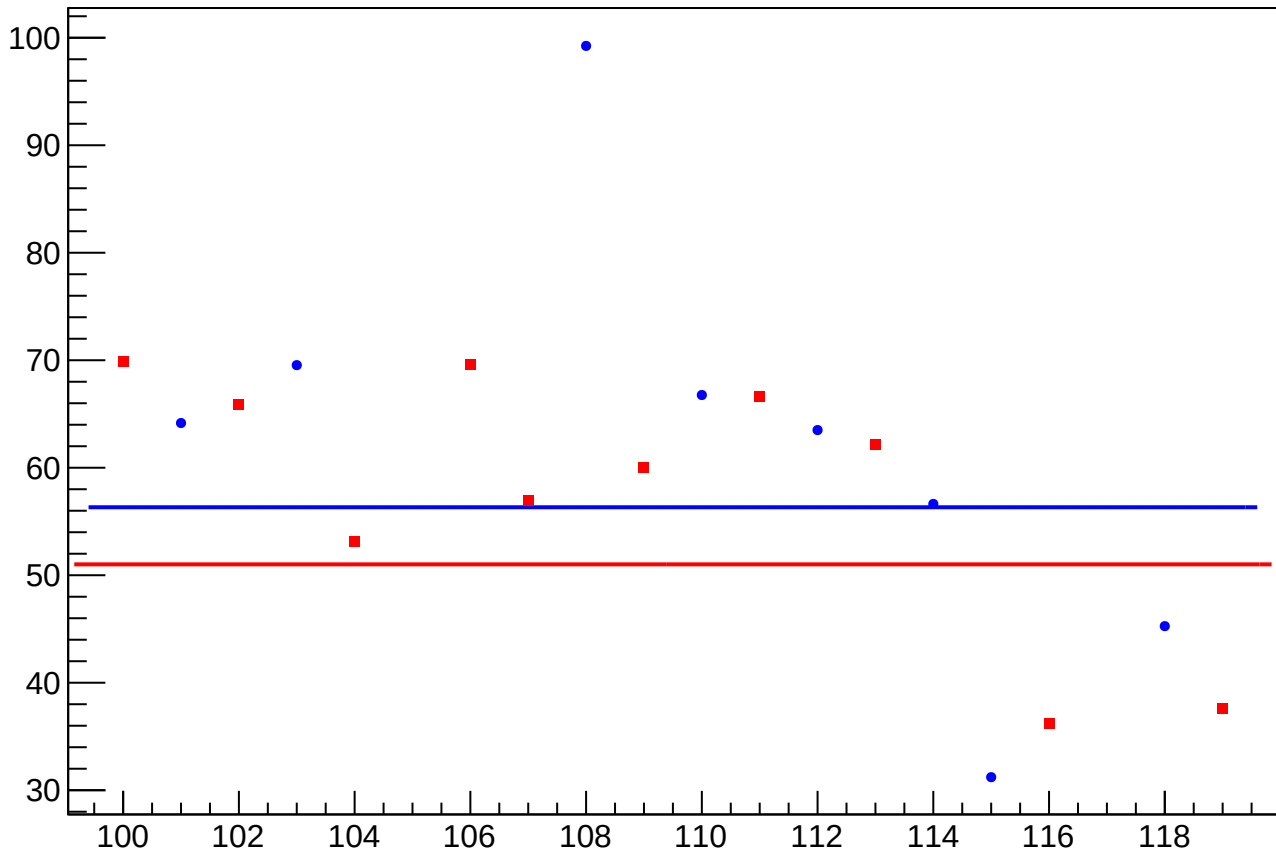
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.021 $\pm$ 0.021  $\chi^2$ /NDF: 11.7/17

- 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: 56.323+/-0.023  $\chi^2/\text{NDF}$ : 474105.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 51.012+/-0.019  $\chi^2/\text{NDF}$ : 447353.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

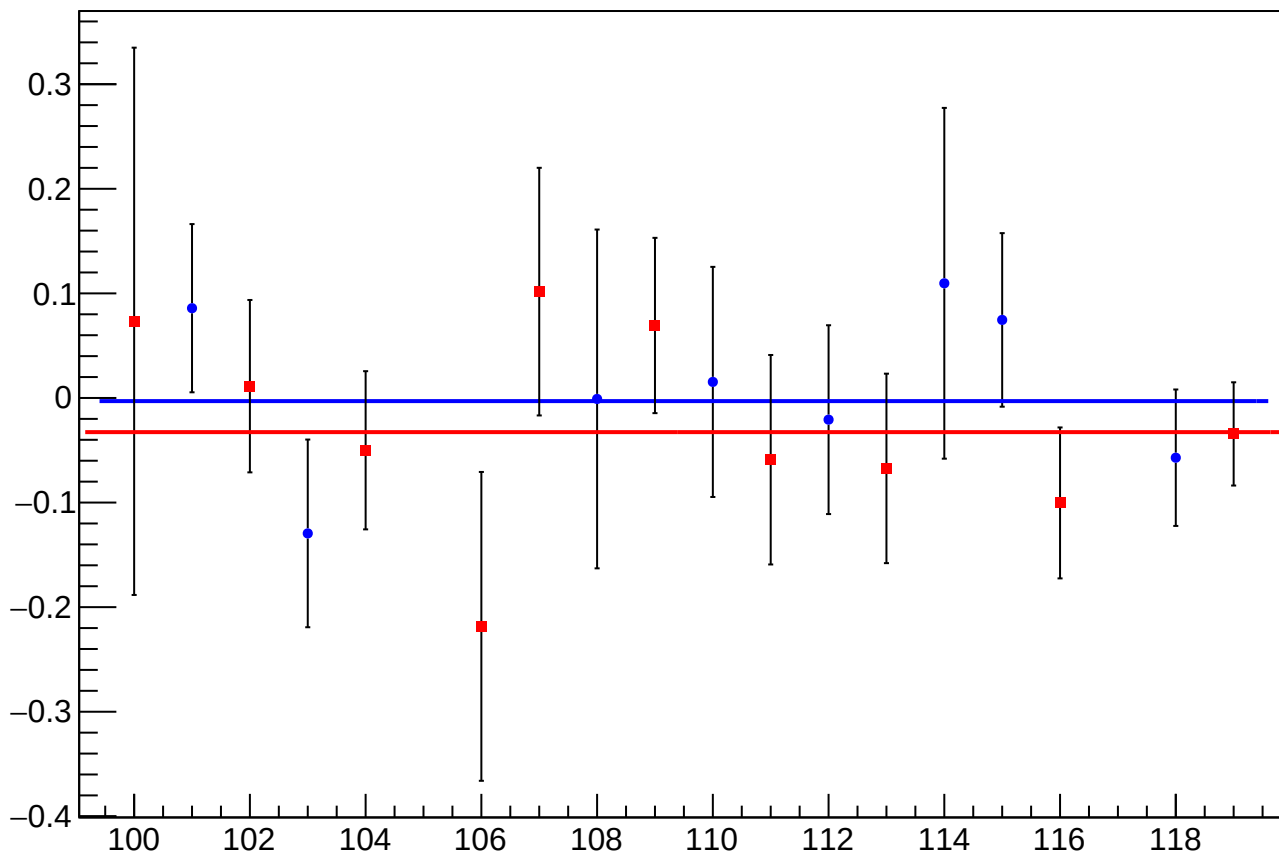
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.124+/-0.015  $\chi^2/\text{NDF}$ : 953332.8/17

- 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: -0.003+/-0.033  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.033+/-0.027  $\chi^2/\text{NDF}$ : 5.9/9

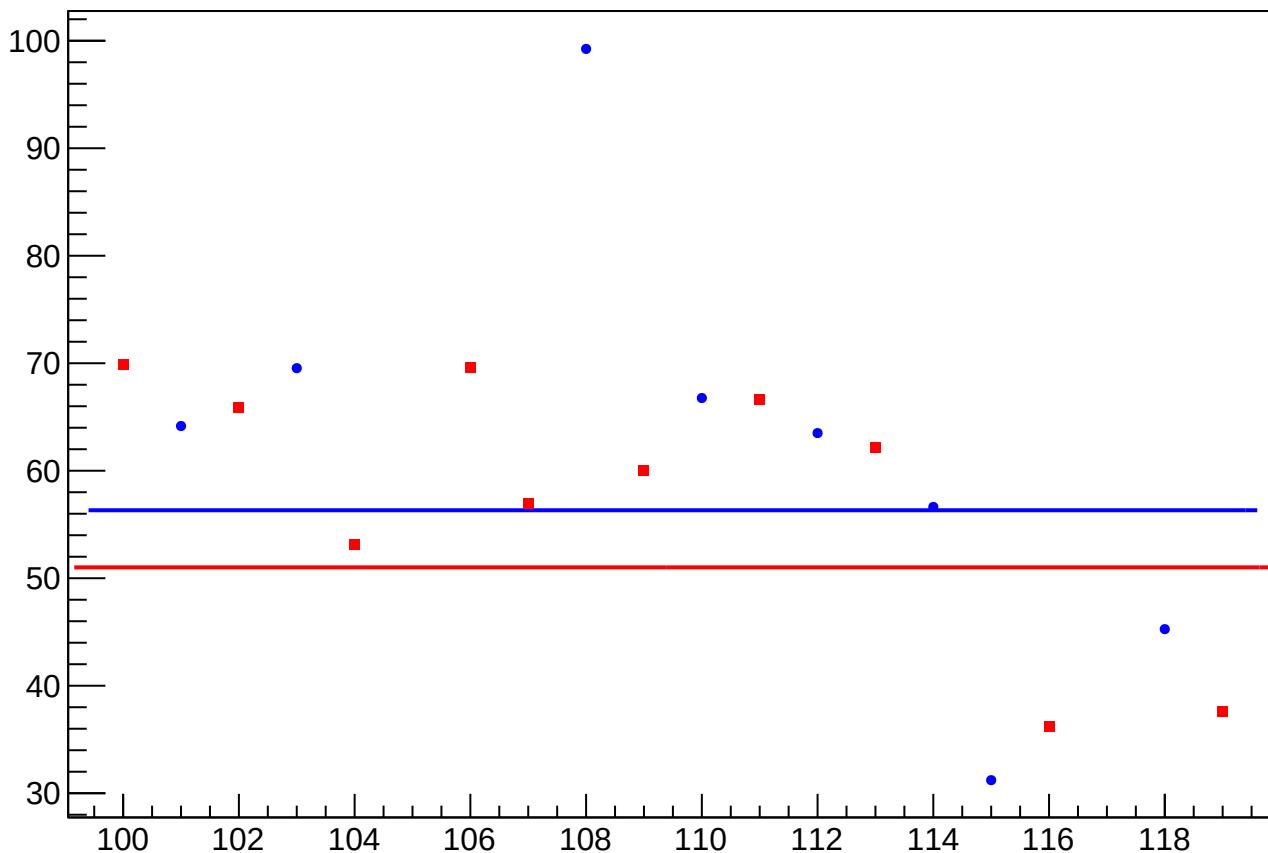
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.021+/-0.021  $\chi^2/\text{NDF}$ : 11.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 56.323+/-0.023  $\chi^2/\text{NDF}$ : 474105.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 51.012+/-0.019  $\chi^2/\text{NDF}$ : 447353.9/9

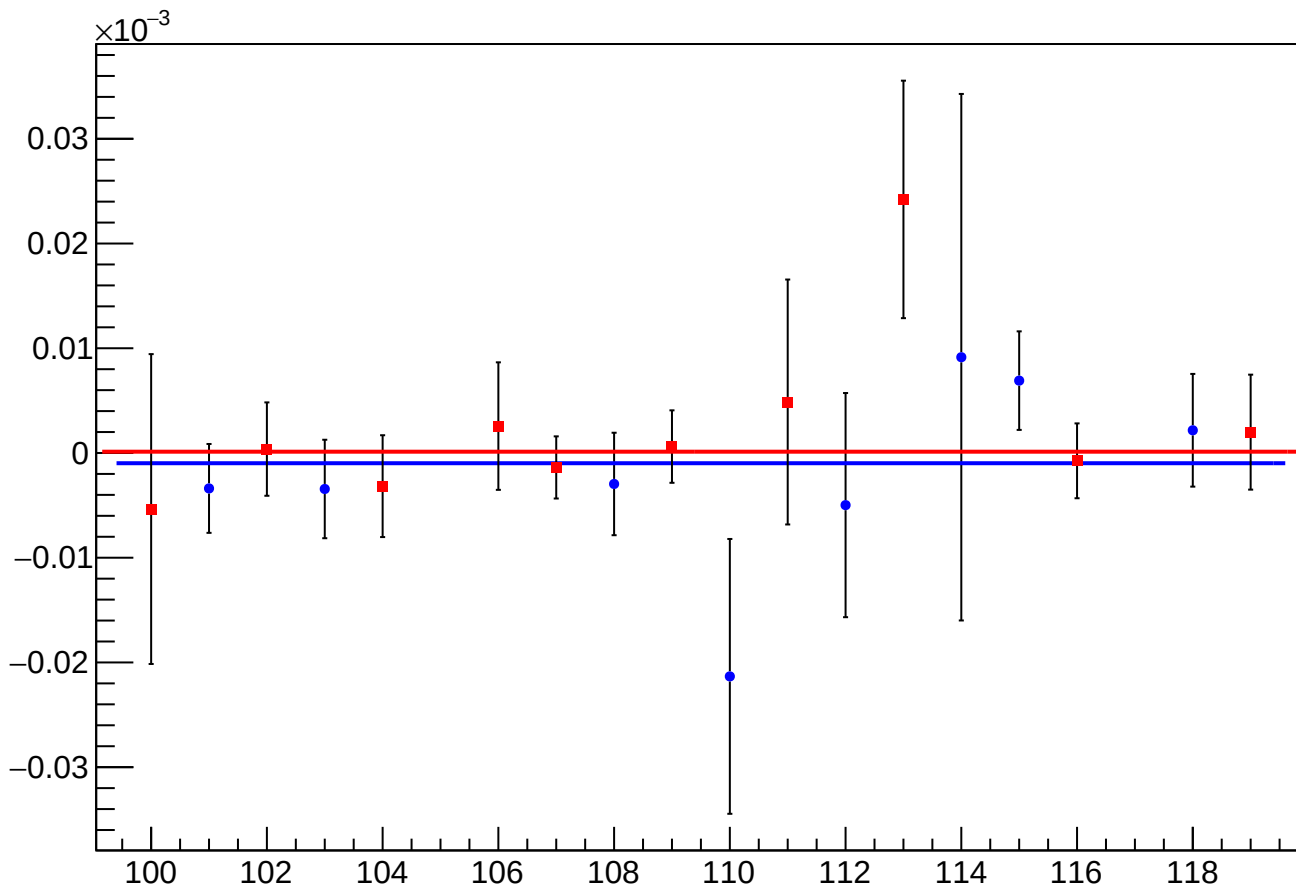
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.124+/-0.015  $\chi^2/\text{NDF}$ : 953332.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.9/9

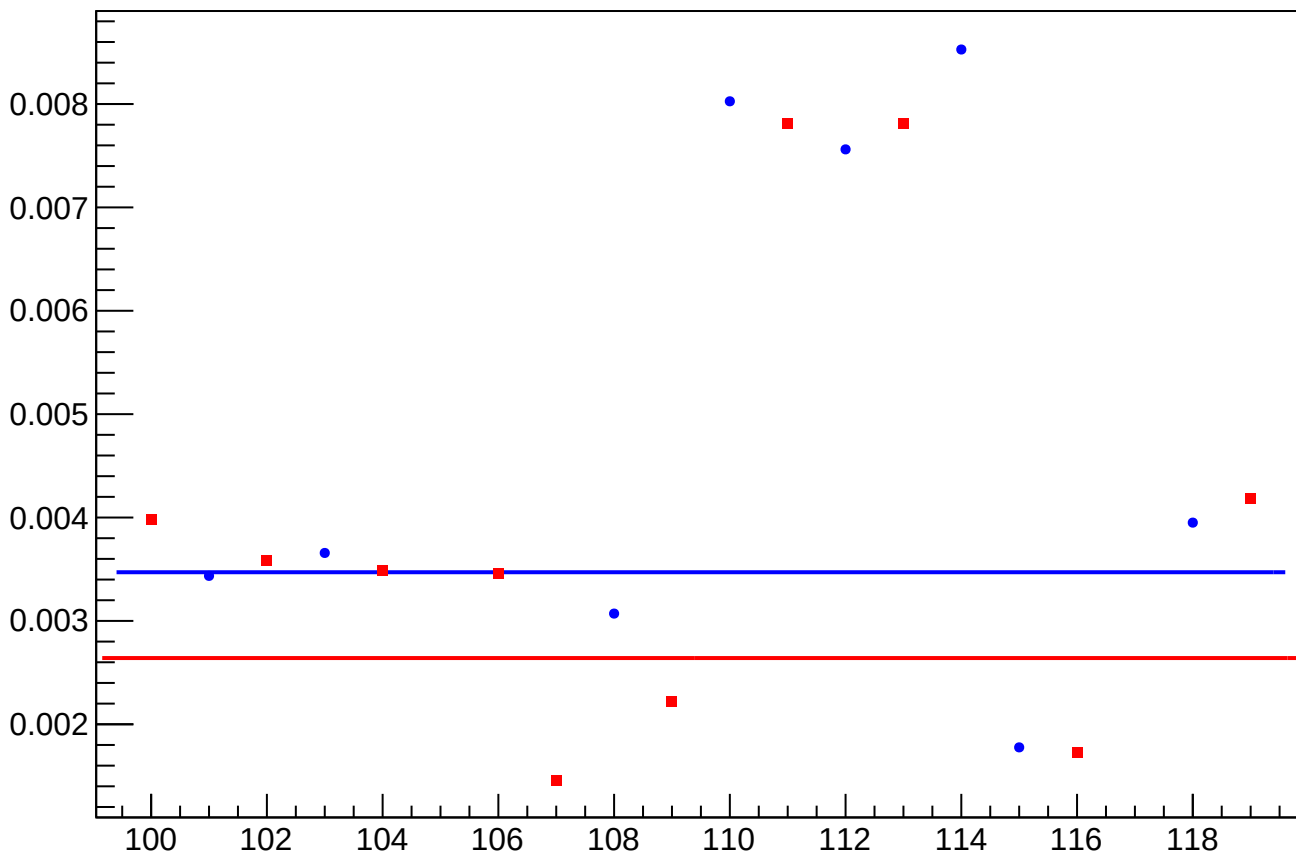
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.7/17

- 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: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 906083.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1648116.2/9

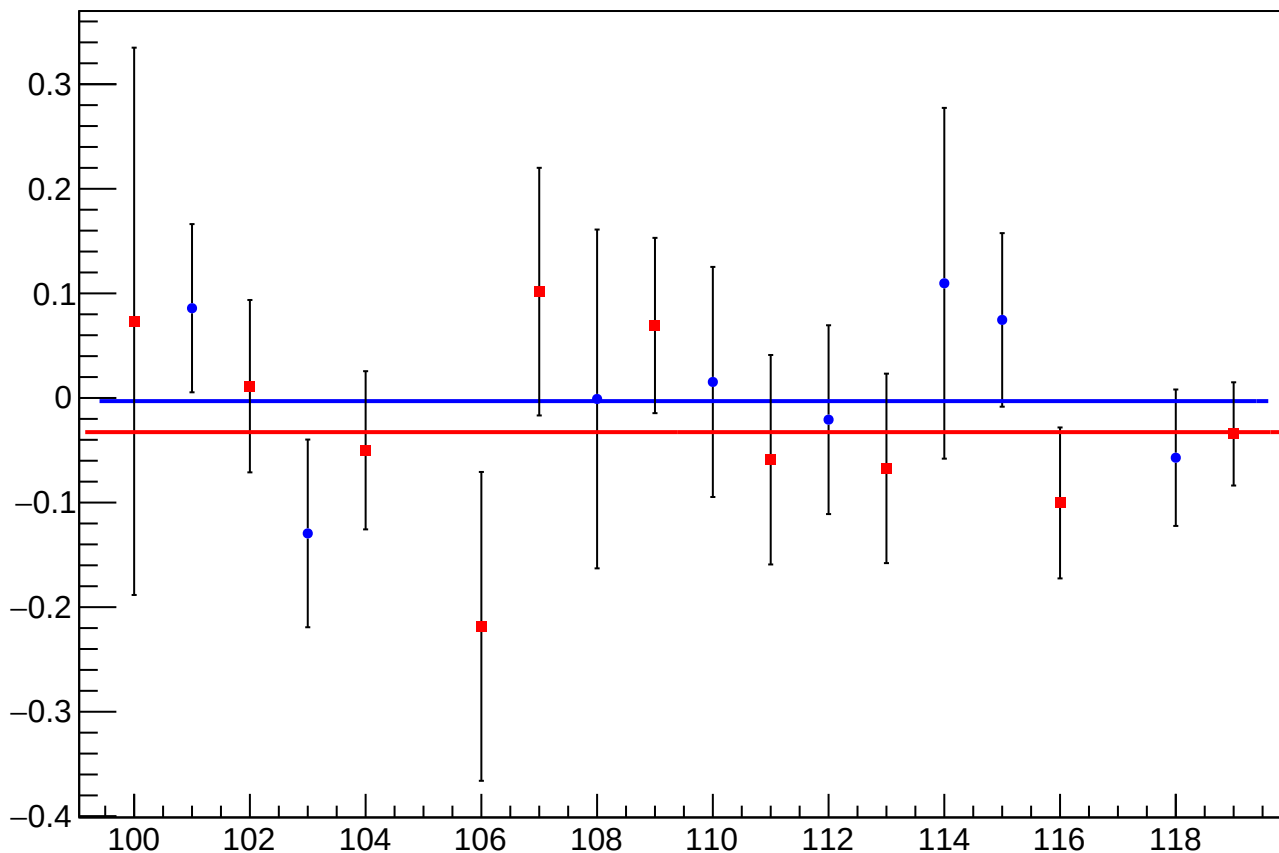
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2768611.6/17

- 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: -0.003+/-0.033  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.033+/-0.027  $\chi^2/\text{NDF}$ : 5.9/9

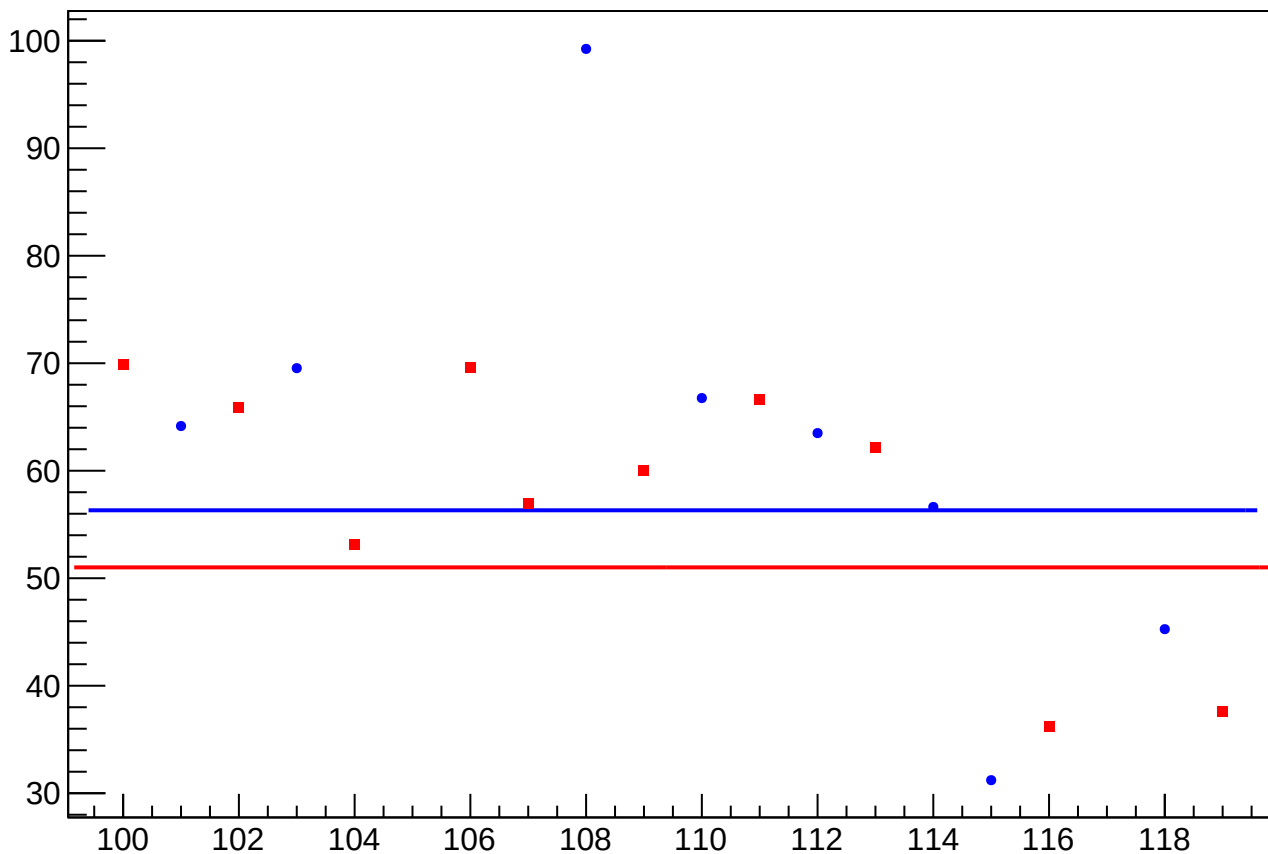
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.021+/-0.021  $\chi^2/\text{NDF}$ : 11.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 56.321+/-0.023  $\chi^2/\text{NDF}$ : 474107.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 51.010+/-0.019  $\chi^2/\text{NDF}$ : 447363.0/9

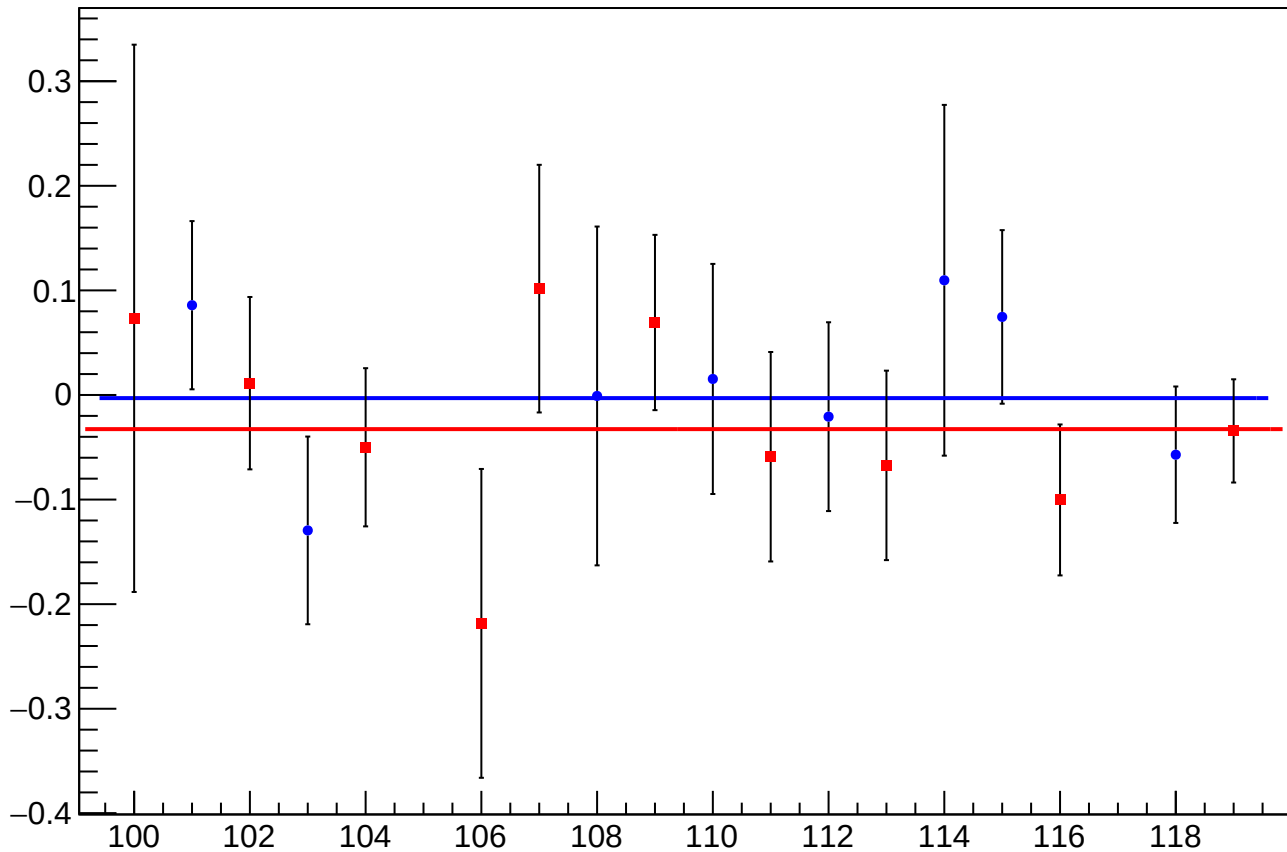
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.123+/-0.015  $\chi^2/\text{NDF}$ : 953343.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.003+/-0.033  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.033+/-0.027  $\chi^2/\text{NDF}$ : 5.9/9

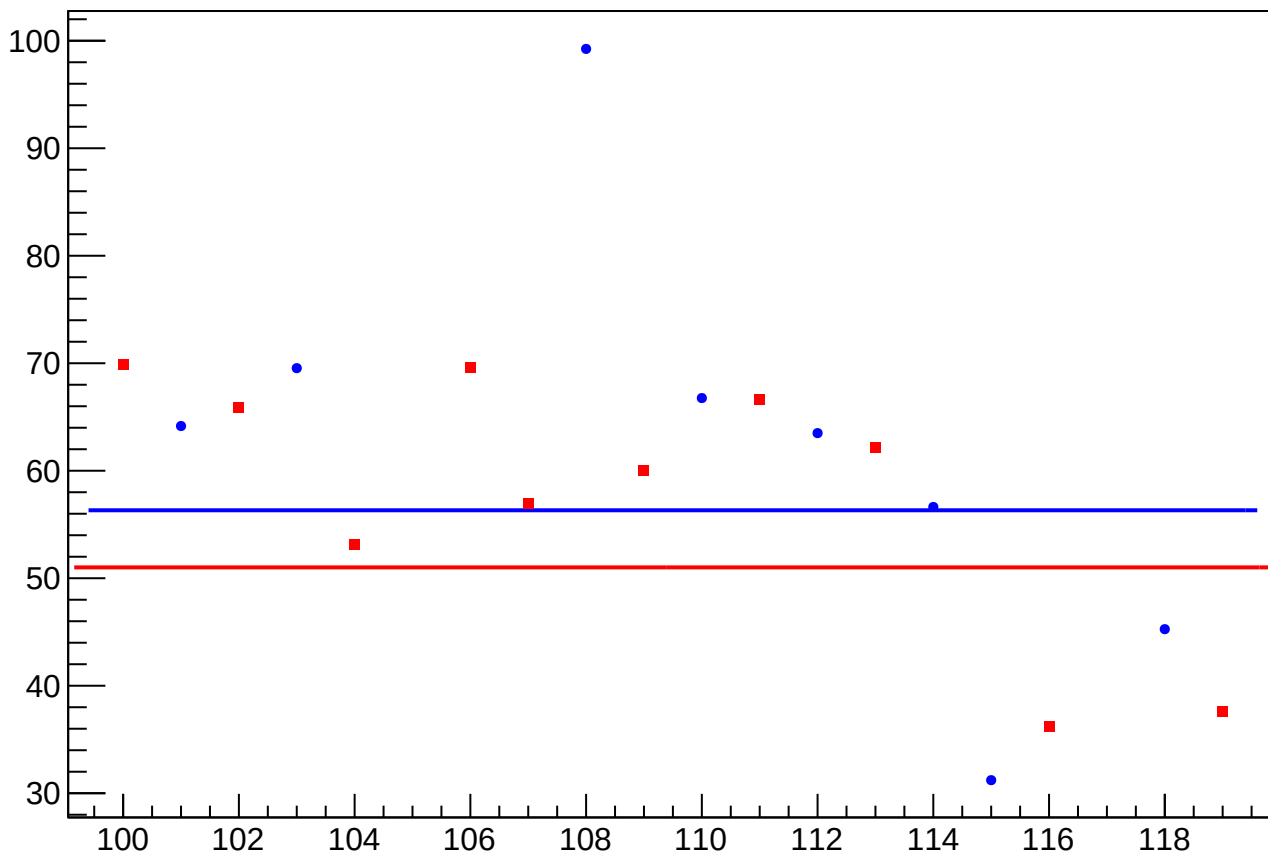
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.021+/-0.021  $\chi^2/\text{NDF}$ : 11.7/17

- 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: 56.321+/-0.023  $\chi^2/\text{NDF}$ : 474107.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 51.010+/-0.019  $\chi^2/\text{NDF}$ : 447363.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

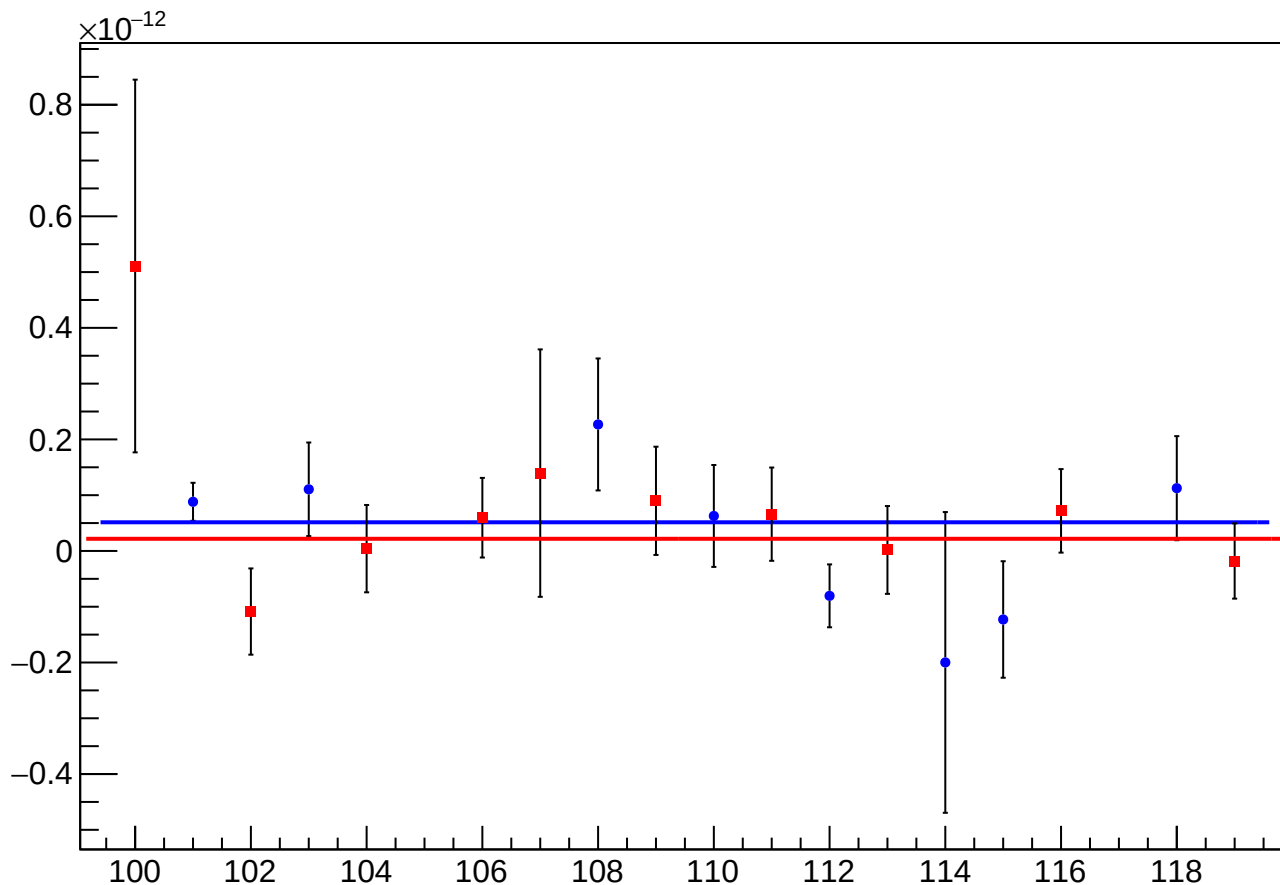
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.123+/-0.015  $\chi^2/\text{NDF}$ : 953343.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_24\_68\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 13.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 7.2/9

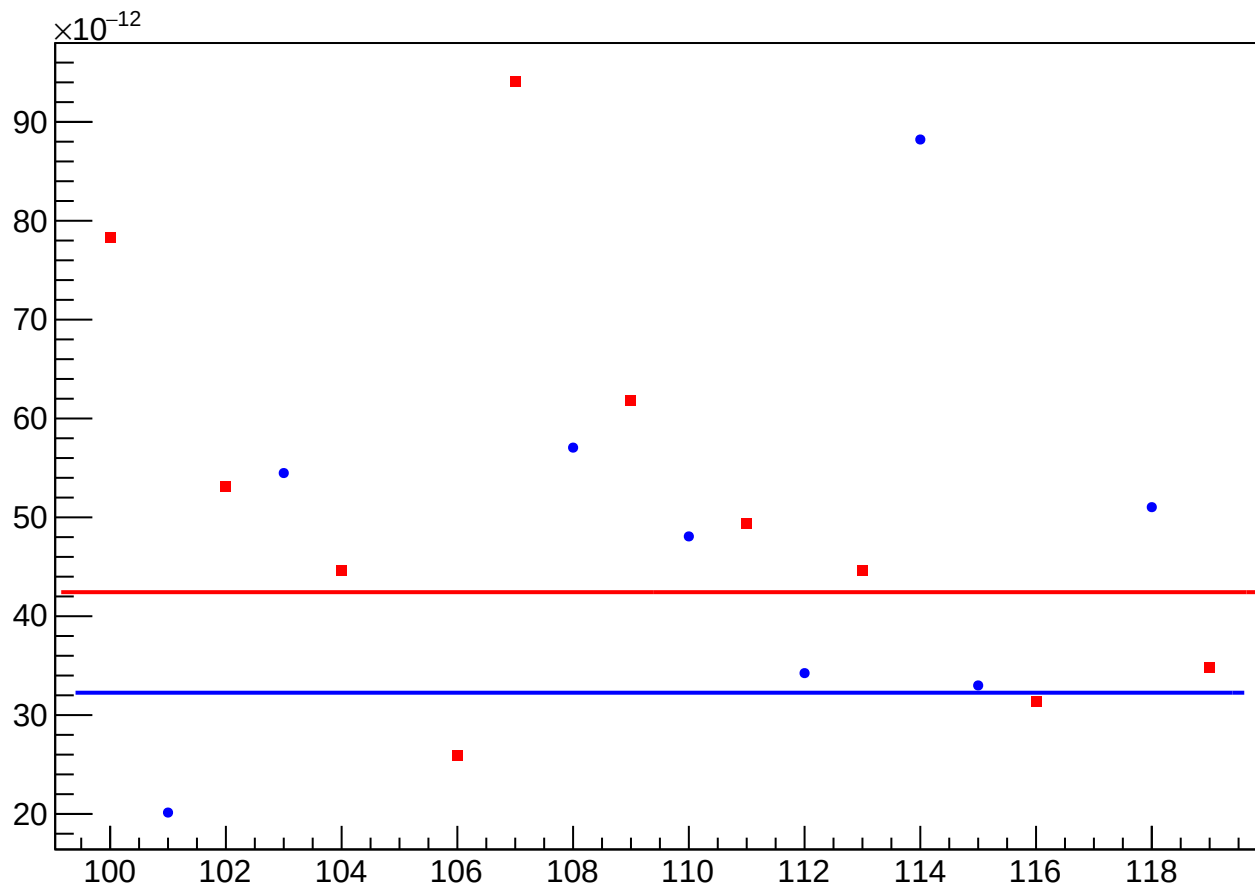
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 21.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 710676.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 443364.6/9

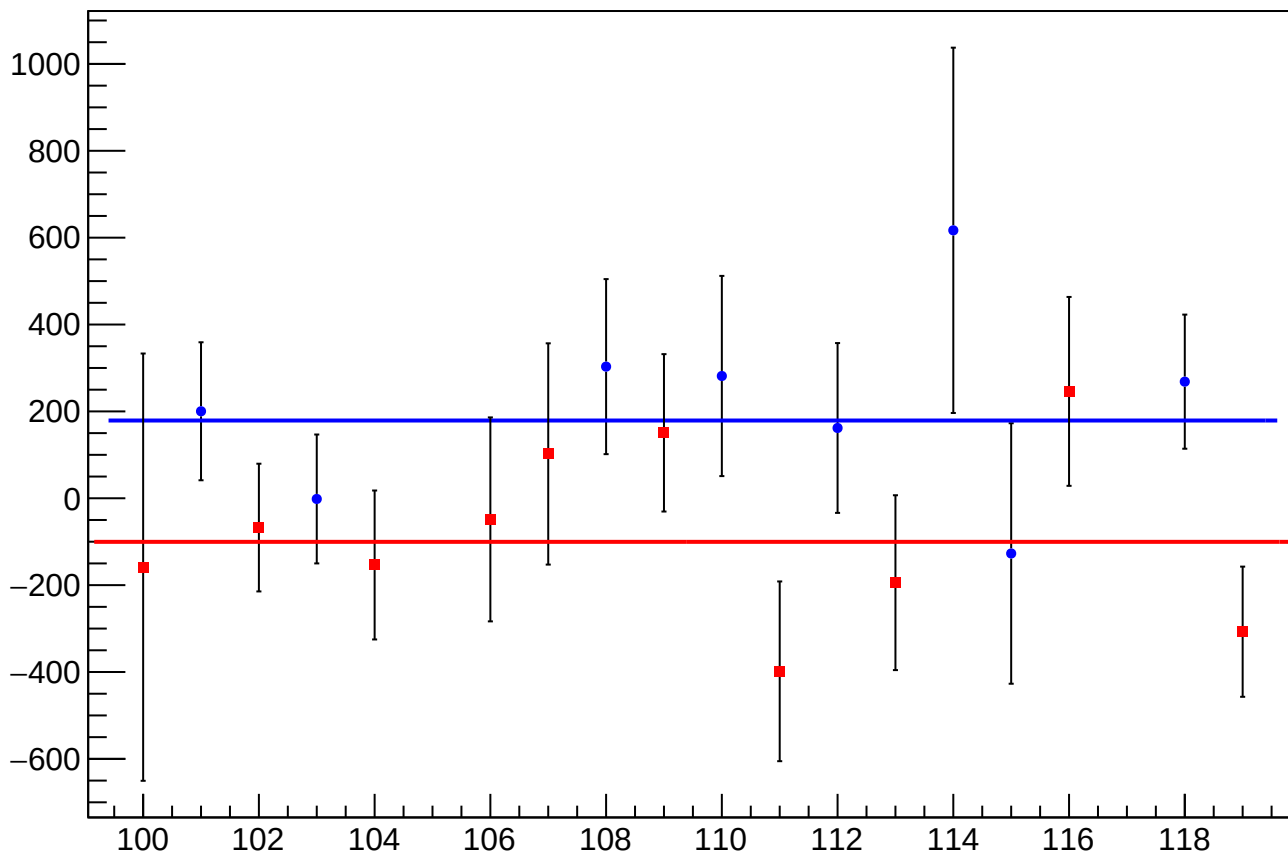
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1311788.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 179.019 $\pm$ 68.458  $\chi^2$ /NDF: 4.5/7

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -100.325 $\pm$ -61.764  $\chi^2$ /NDF: 9.5/9

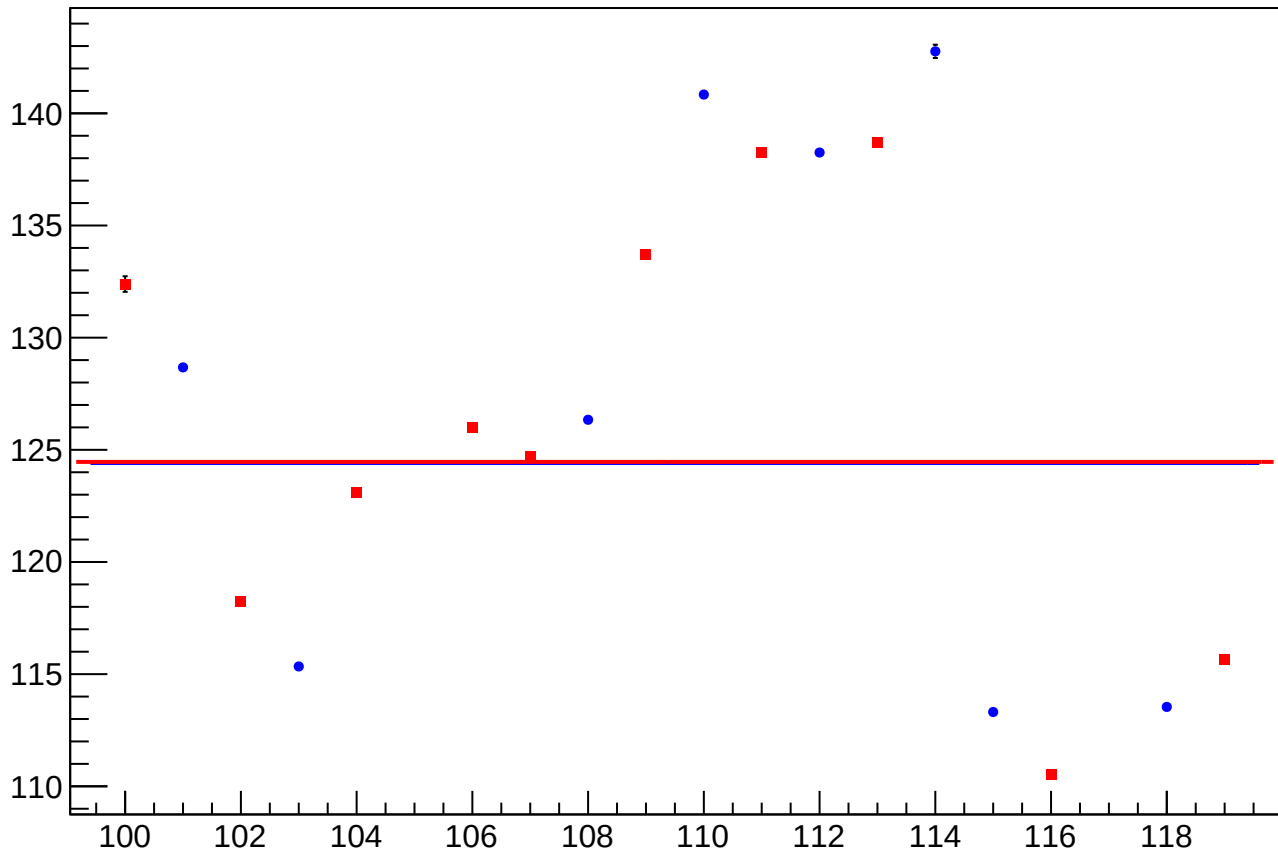
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 25.025 $\pm$ -45.858  $\chi^2$ /NDF: 23.2/17

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 124.413 $\pm$ 0.048  $\chi^2$ /NDF: 45745.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 124.462 $\pm$ 0.044  $\chi^2$ /NDF: 43567.7/9

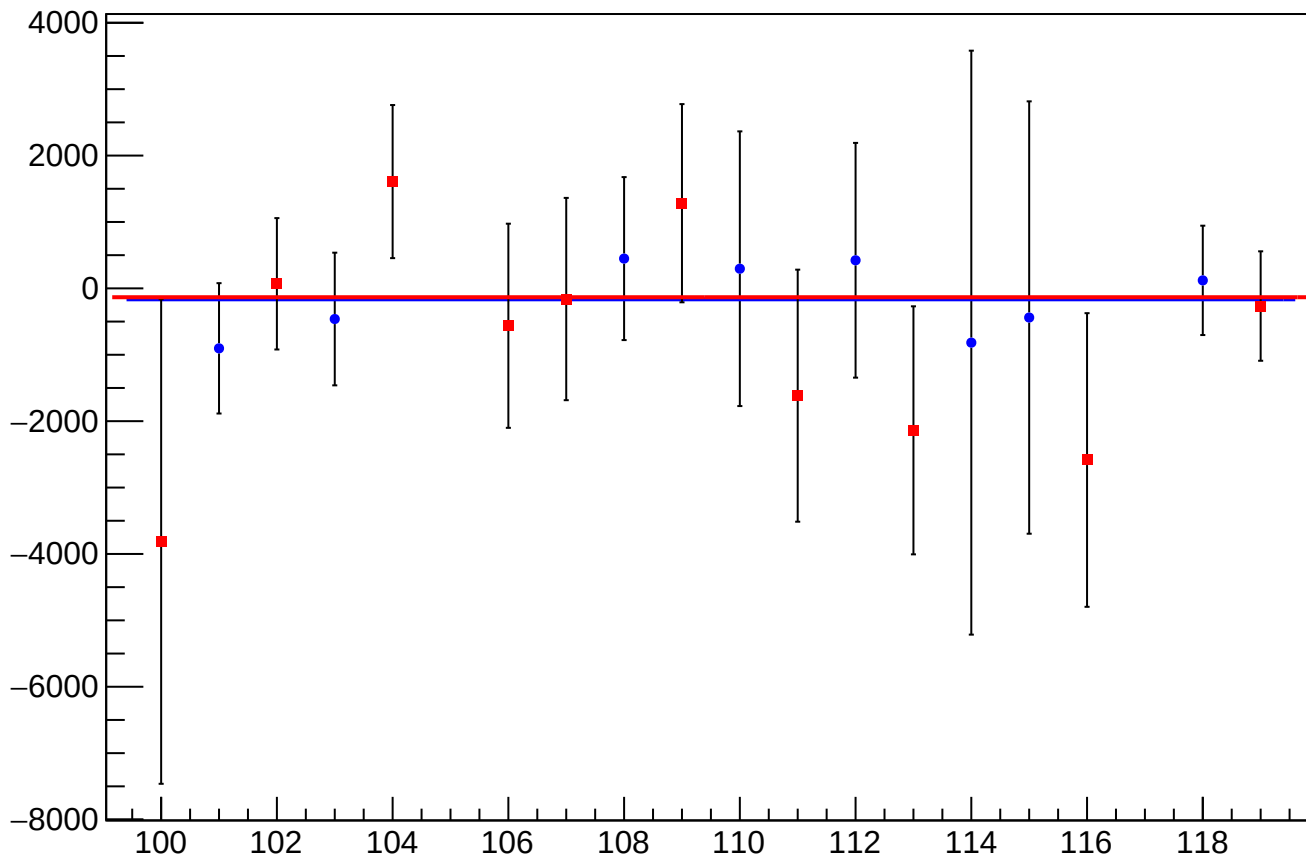
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 124.440 $\pm$ 0.032  $\chi^2$ /NDF: 89314.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_reg\_correction\_mean vs Slug



Right In: -164.637+/-452.768  $\chi^2/\text{NDF}$ : 1.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -133.410+/-430.626  $\chi^2/\text{NDF}$ : 7.3/9

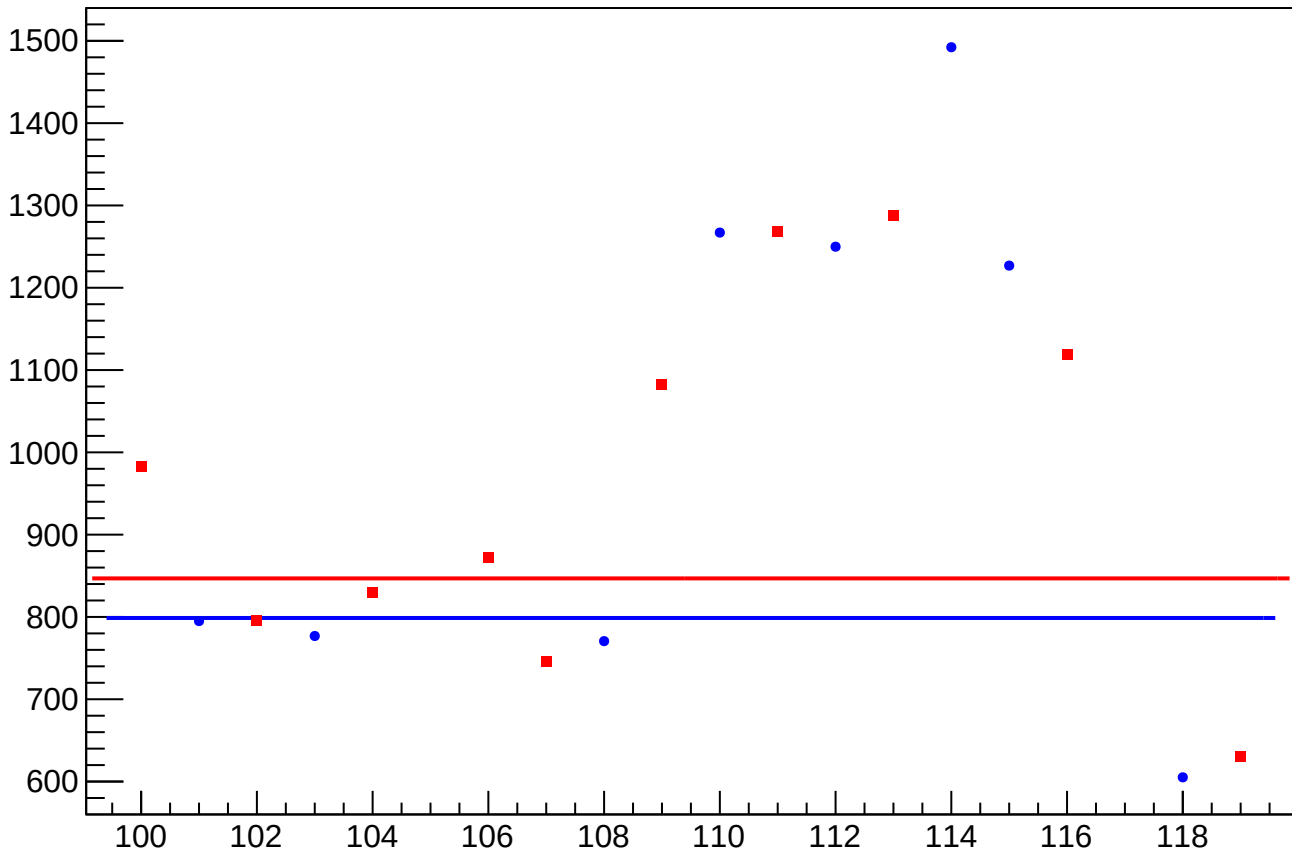
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -148.242+/-312.033  $\chi^2/\text{NDF}$ : 8.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_reg\_correction\_rms vs Slug



Right In: 798.751+/-0.320  $\chi^2/\text{NDF}$ : 429691.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 846.840+/-0.304  $\chi^2/\text{NDF}$ : 445104.9/9

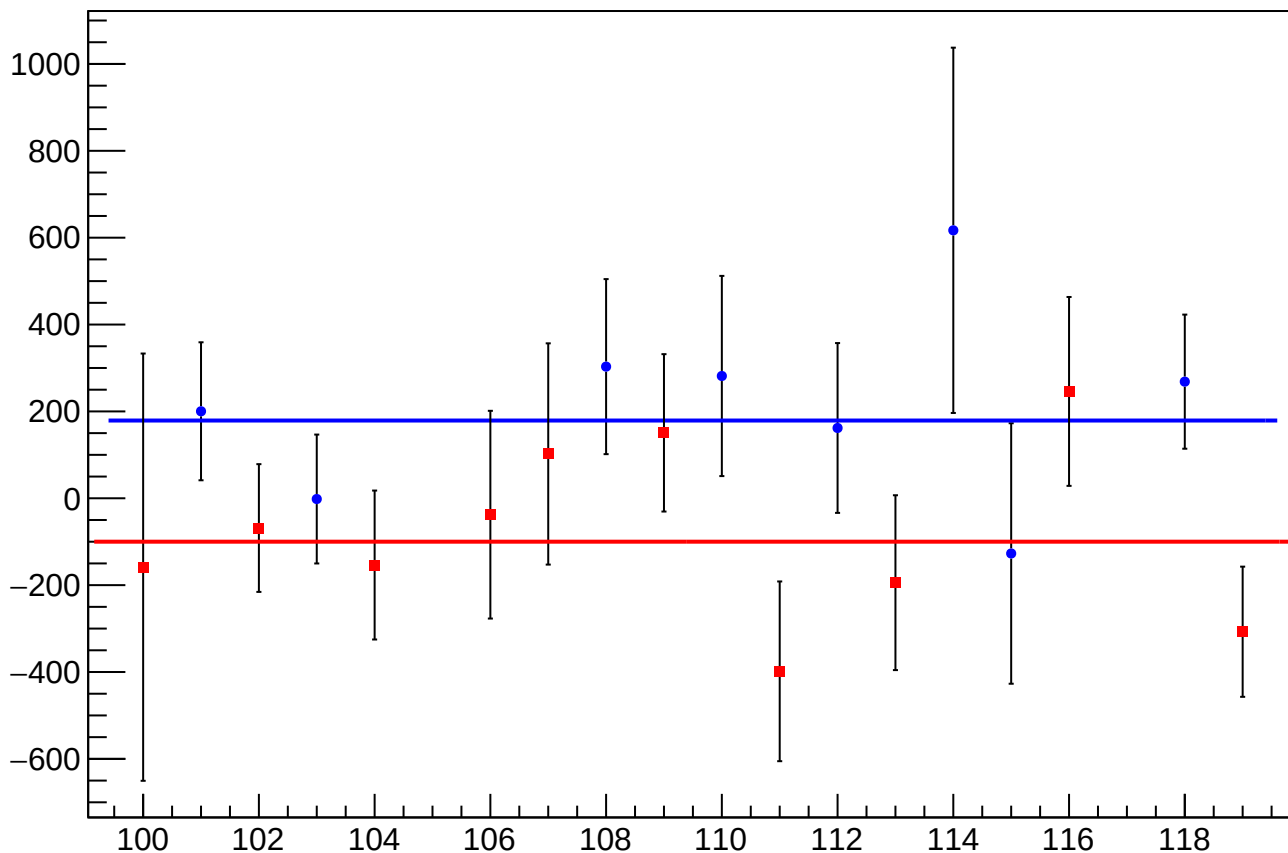
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 824.000+/-0.221  $\chi^2/\text{NDF}$ : 886642.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 179.011 $\pm$ 68.458  $\chi^2$ /NDF: 4.5/7

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -99.941 $\pm$ 61.845  $\chi^2$ /NDF: 9.5/9

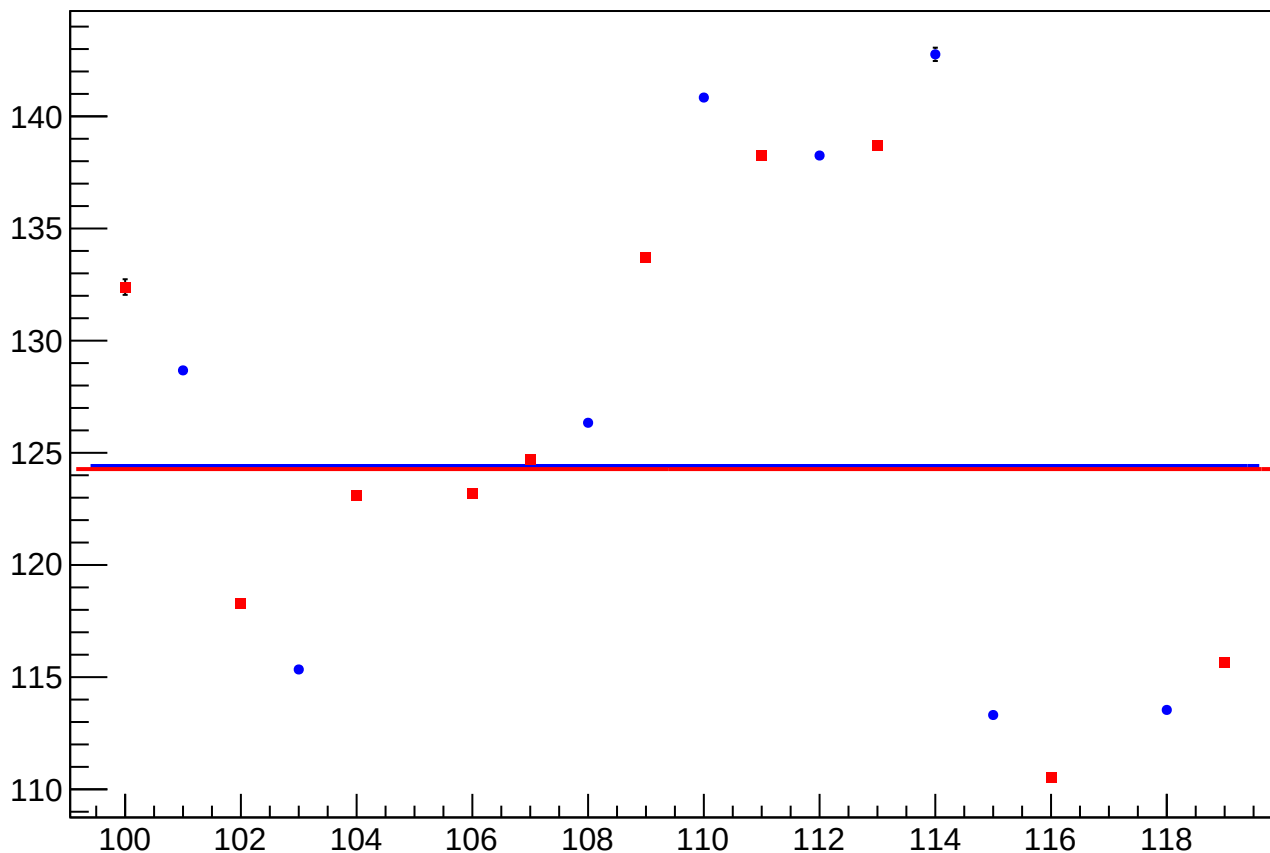
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 25.413 $\pm$ 45.891  $\chi^2$ /NDF: 23.2/17

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 124.413 $\pm$ 0.048  $\chi^2$ /NDF: 45745.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 124.275 $\pm$ 0.044  $\chi^2$ /NDF: 43473.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

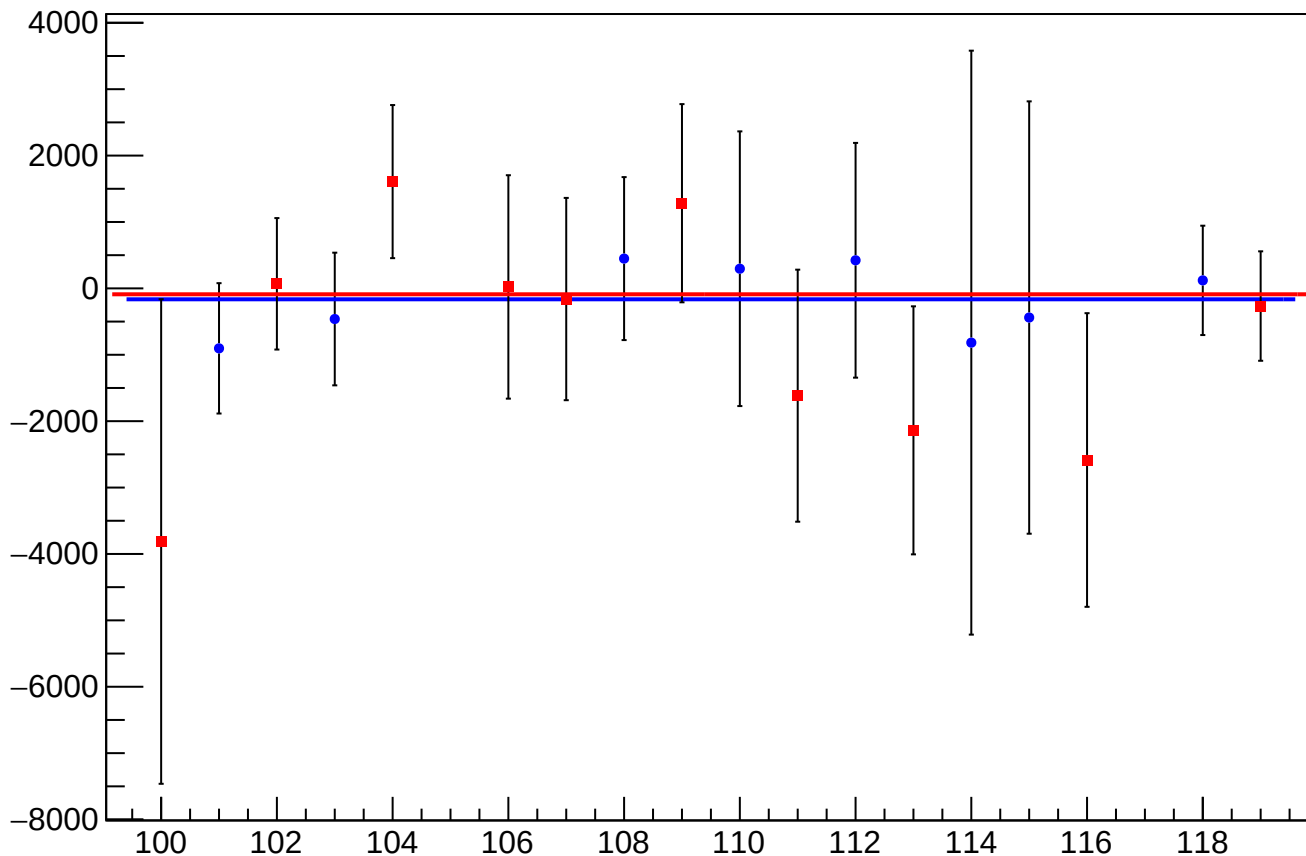
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 124.337 $\pm$ 0.032  $\chi^2$ /NDF: 89223.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_26\_48\_dd\_cor\_correction\_mean vs Slug



Right In: -164.591+/-452.770  $\chi^2/\text{NDF}$ : 1.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -89.067+/-433.496  $\chi^2/\text{NDF}$ : 7.3/9

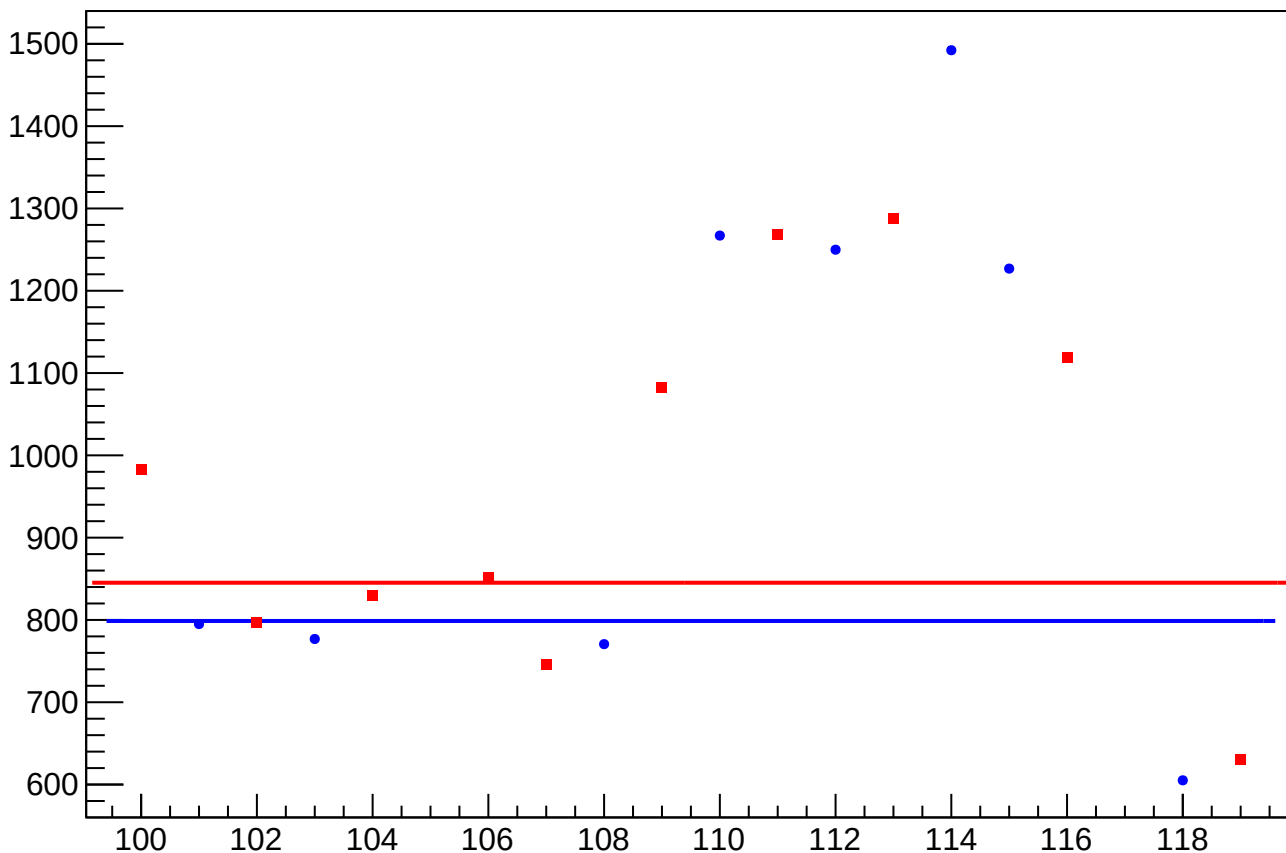
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -125.188+/-313.120  $\chi^2/\text{NDF}$ : 8.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_cor\_correction\_rms vs Slug



Right In: 798.754+/-0.320  $\chi^2/\text{NDF}$ : 429696.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 845.223+/-0.307  $\chi^2/\text{NDF}$ : 444421.2/9

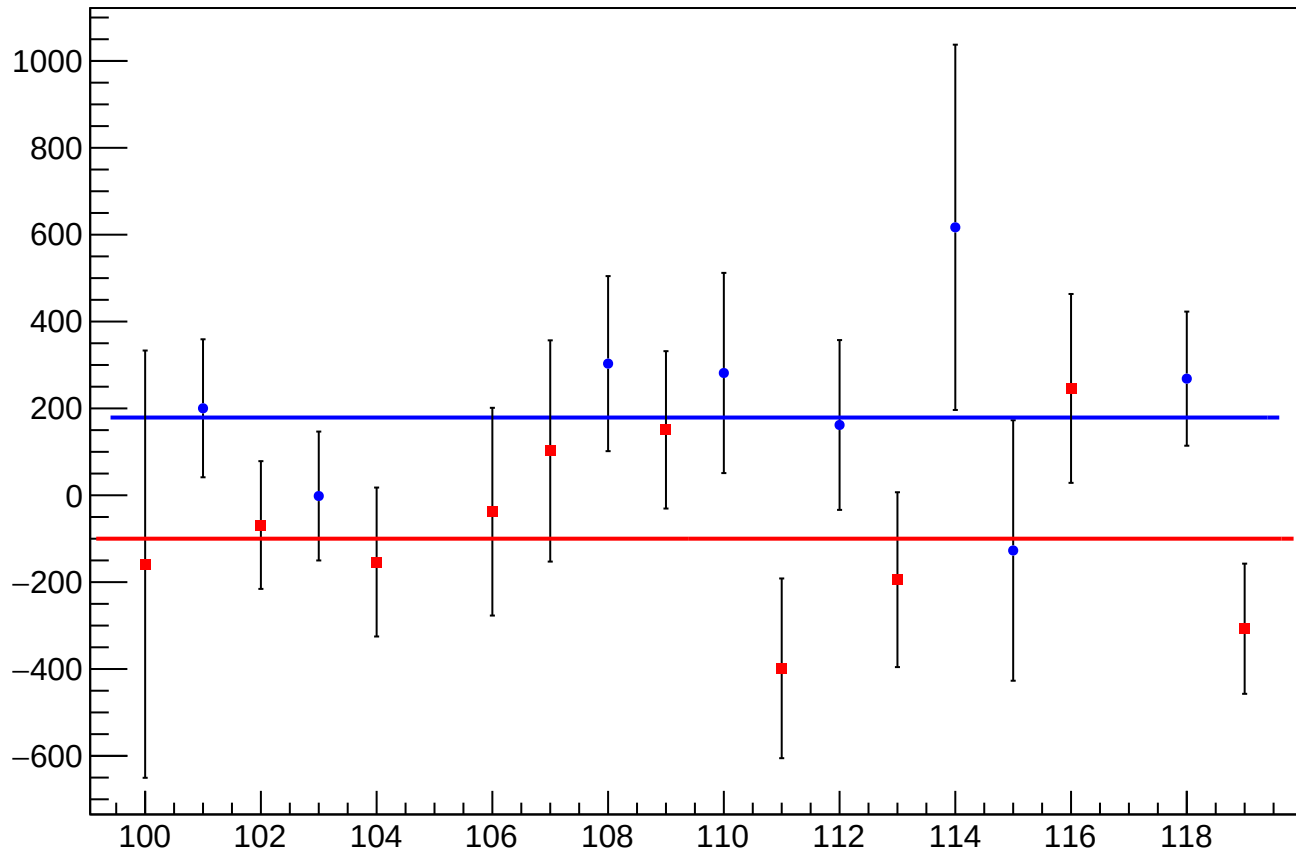
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 822.998+/-0.221  $\chi^2/\text{NDF}$ : 885108.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 179.011 $\pm$ 68.458  $\chi^2$ /NDF: 4.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -99.941 $\pm$ 61.845  $\chi^2$ /NDF: 9.5/9

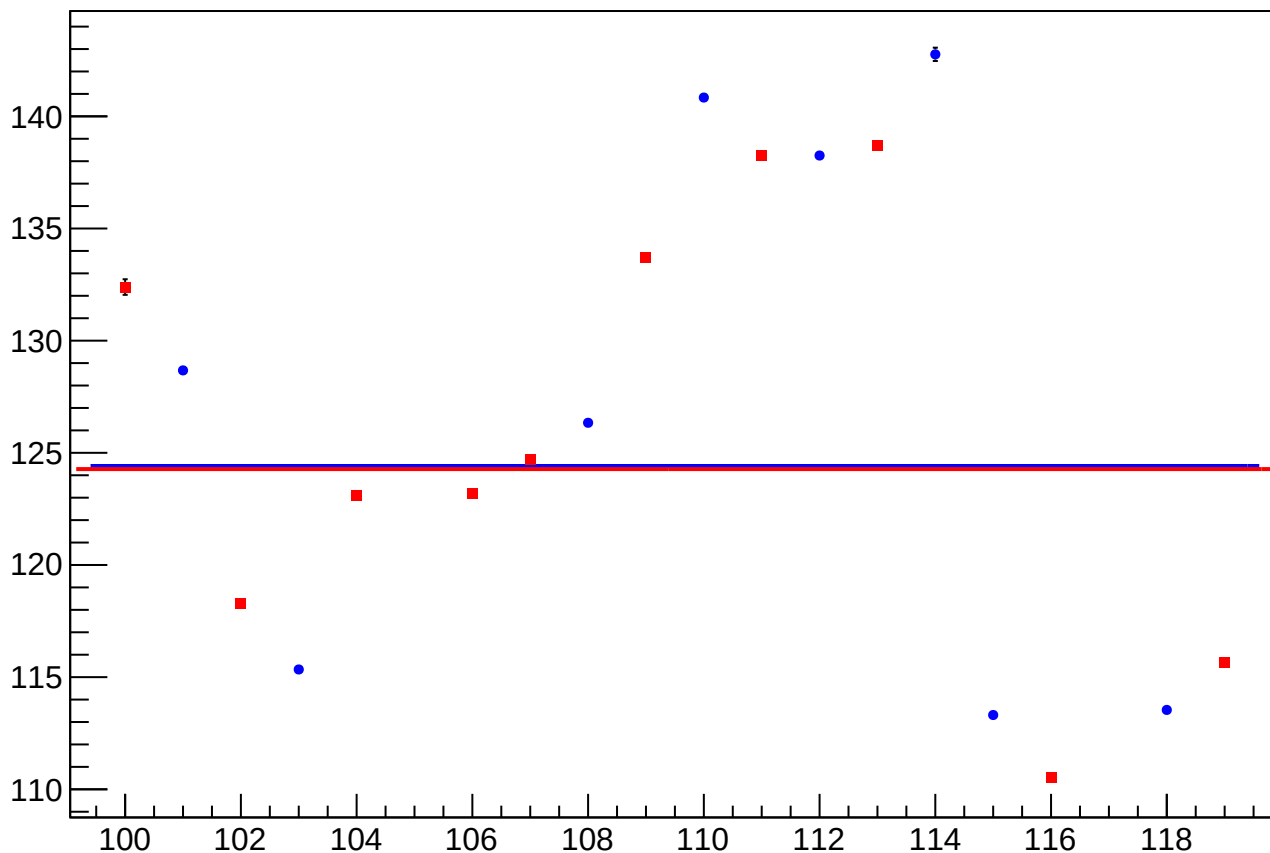
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.413 $\pm$ 45.891  $\chi^2$ /NDF: 23.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 124.413 $\pm$ 0.048  $\chi^2$ /NDF: 45745.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 124.275 $\pm$ 0.044  $\chi^2$ /NDF: 43473.4/9

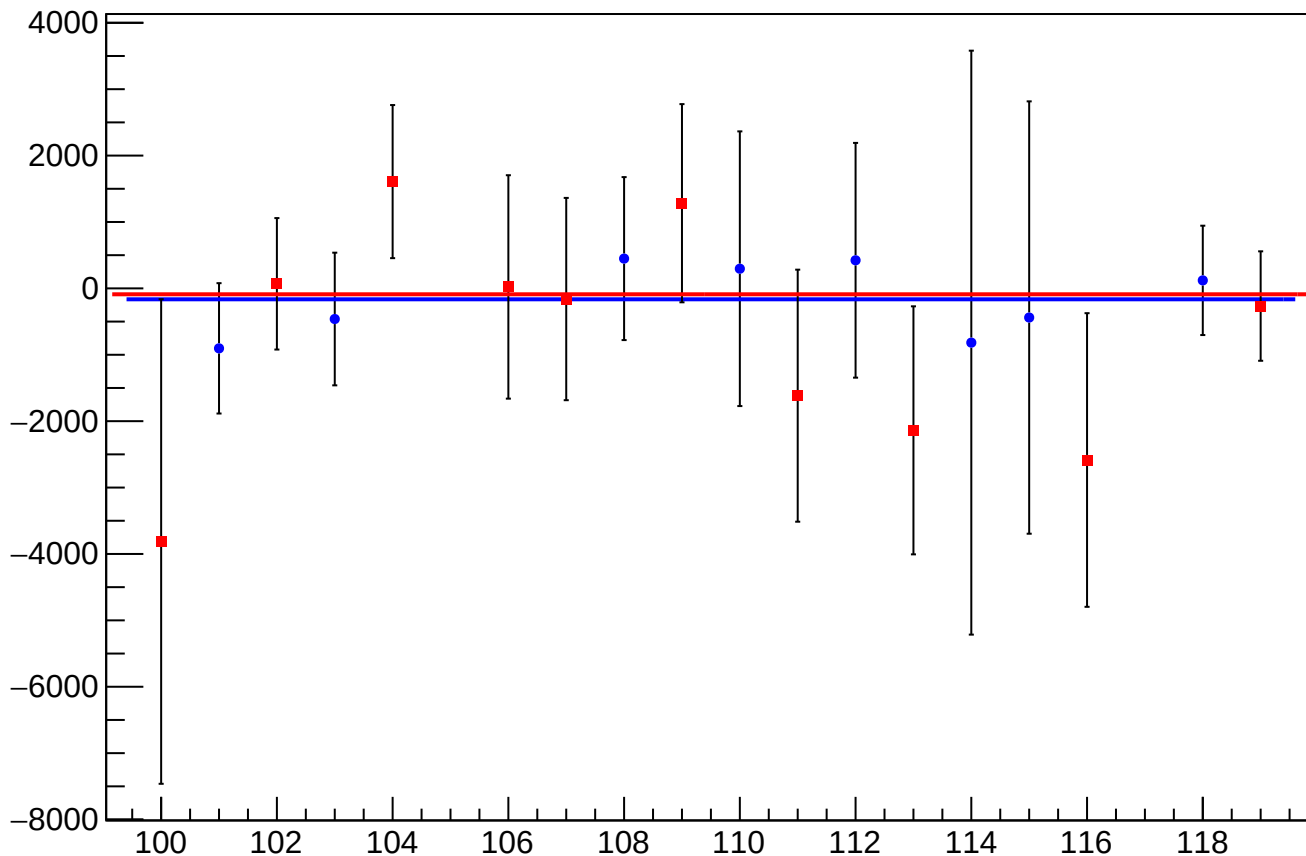
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 124.337 $\pm$ 0.032  $\chi^2$ /NDF: 89223.6/17

- 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: -164.591+/-452.770  $\chi^2/\text{NDF}$ : 1.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -89.067+/-433.496  $\chi^2/\text{NDF}$ : 7.3/9

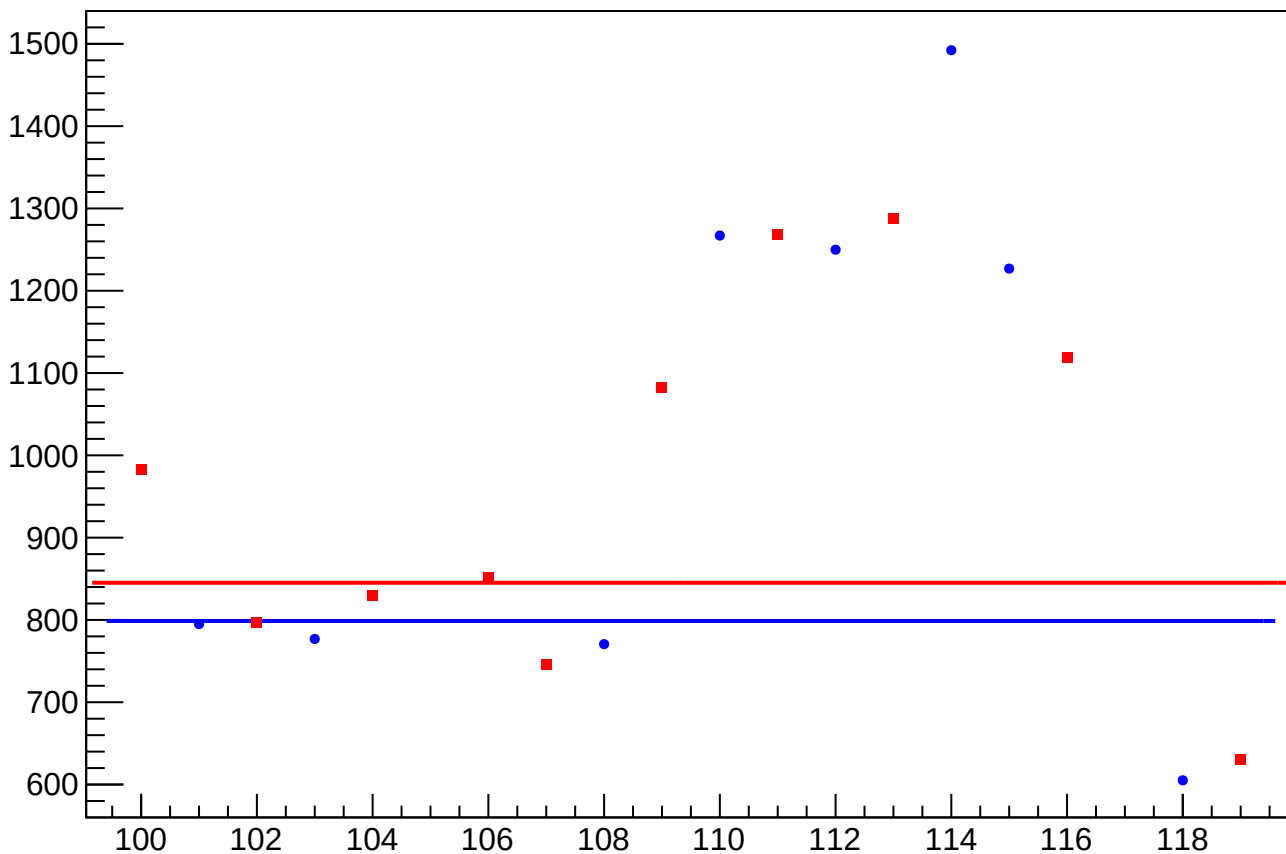
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -125.188+/-313.120  $\chi^2/\text{NDF}$ : 8.5/17

- 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: 798.754+/-0.320  $\chi^2/\text{NDF}$ : 429696.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 845.223+/-0.307  $\chi^2/\text{NDF}$ : 444421.2/9

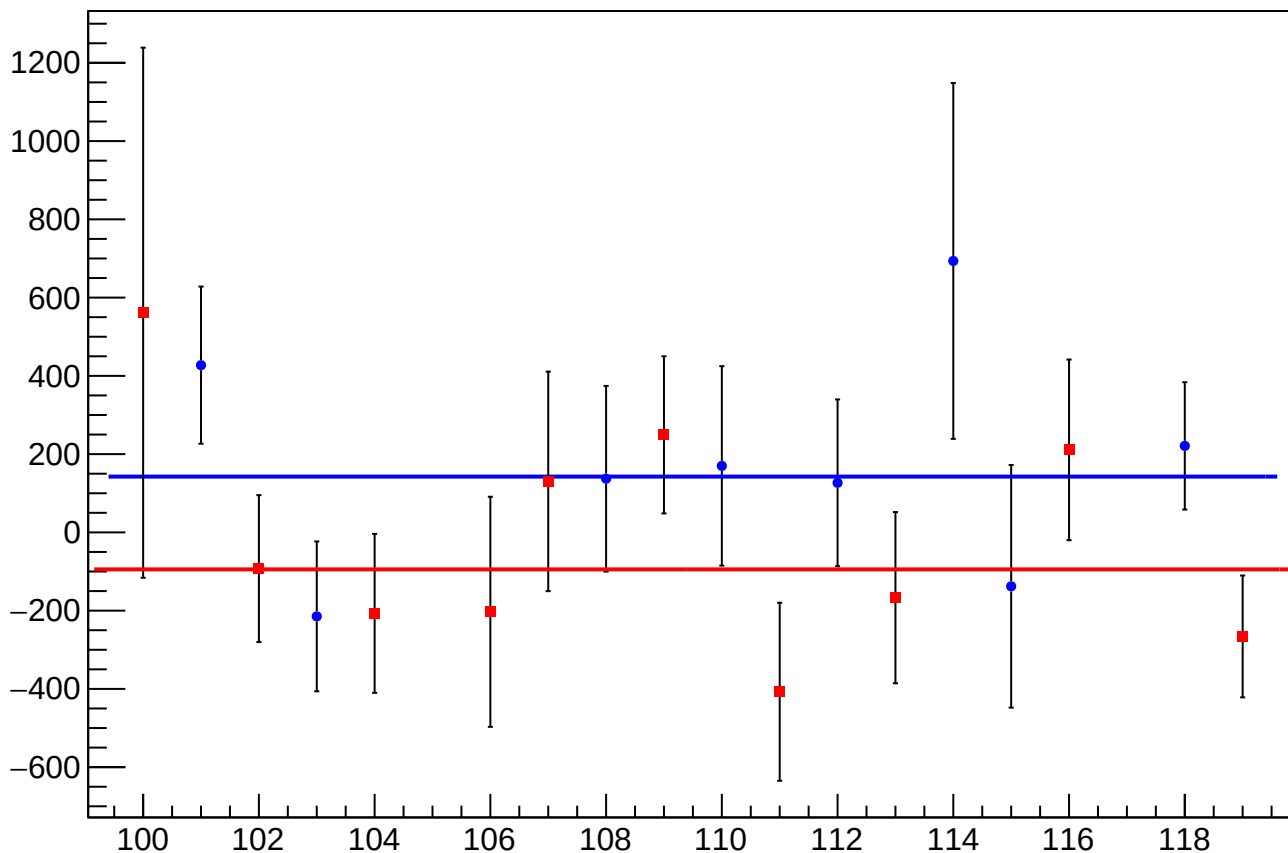
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 822.998+/-0.221  $\chi^2/\text{NDF}$ : 885108.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 142.588 $\pm$ 78.997  $\chi^2$ /NDF: 8.0/7

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -94.520 $\pm$ -69.998  $\chi^2$ /NDF: 9.9/9

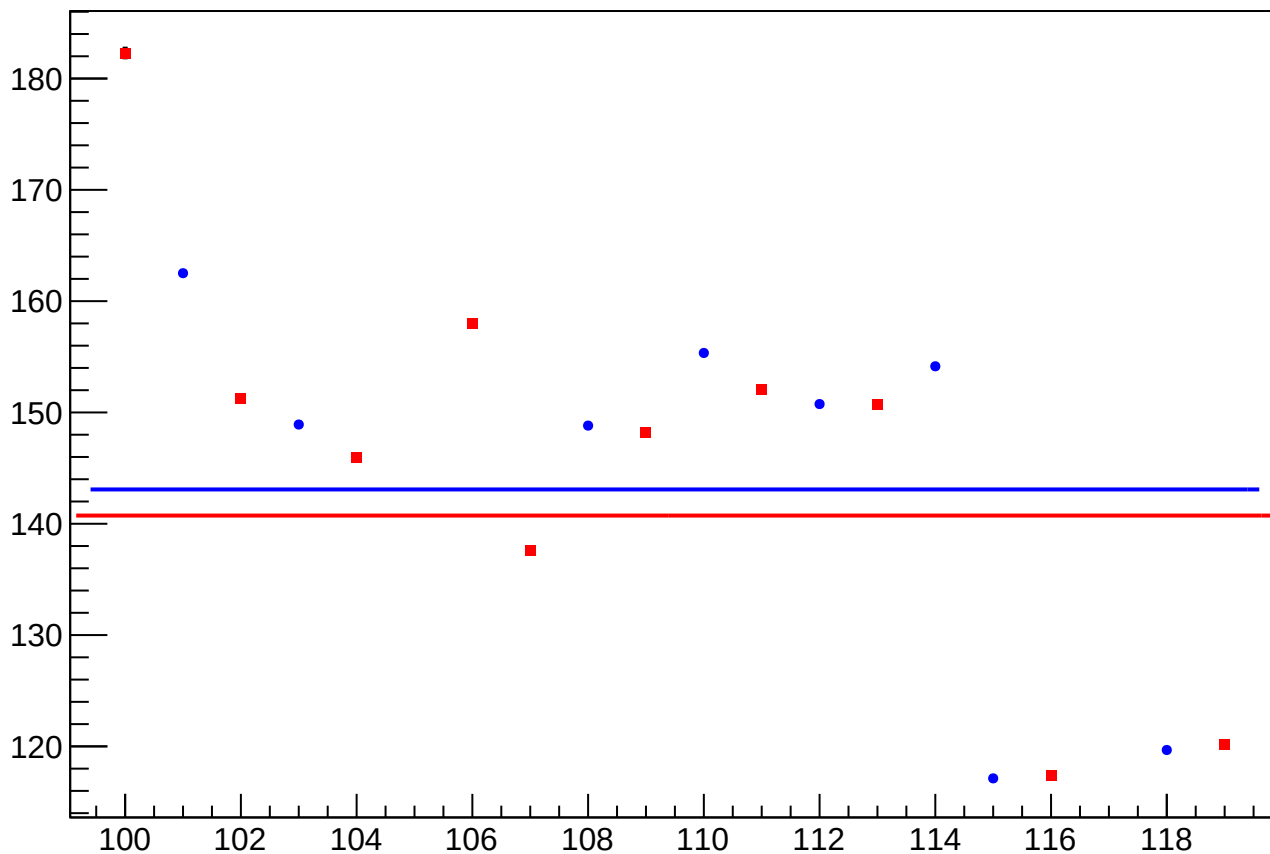
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 9.766 $\pm$ -52.390  $\chi^2$ /NDF: 23.0/17

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 143.083+/-0.056  $\chi^2/\text{NDF}$ : 85539.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 140.737+/-0.049  $\chi^2/\text{NDF}$ : 89491.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

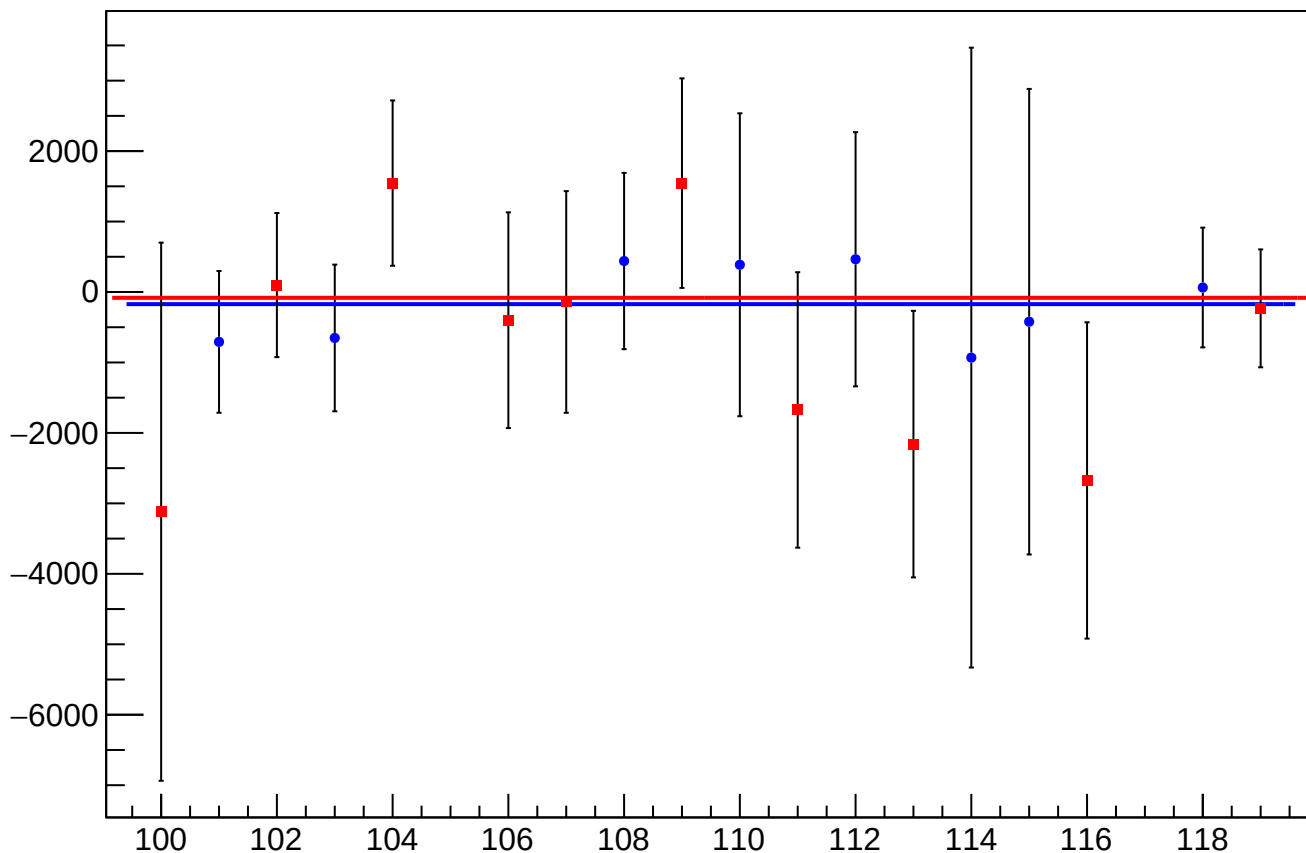
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 141.769+/-0.037  $\chi^2/\text{NDF}$ : 176020.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_26\_48\_dd\_dit\_correction\_mean vs Slug



Right In: -172.139+/-466.200  $\chi^2/\text{NDF}$ : 1.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -82.449+/-438.452  $\chi^2/\text{NDF}$ : 7.1/9

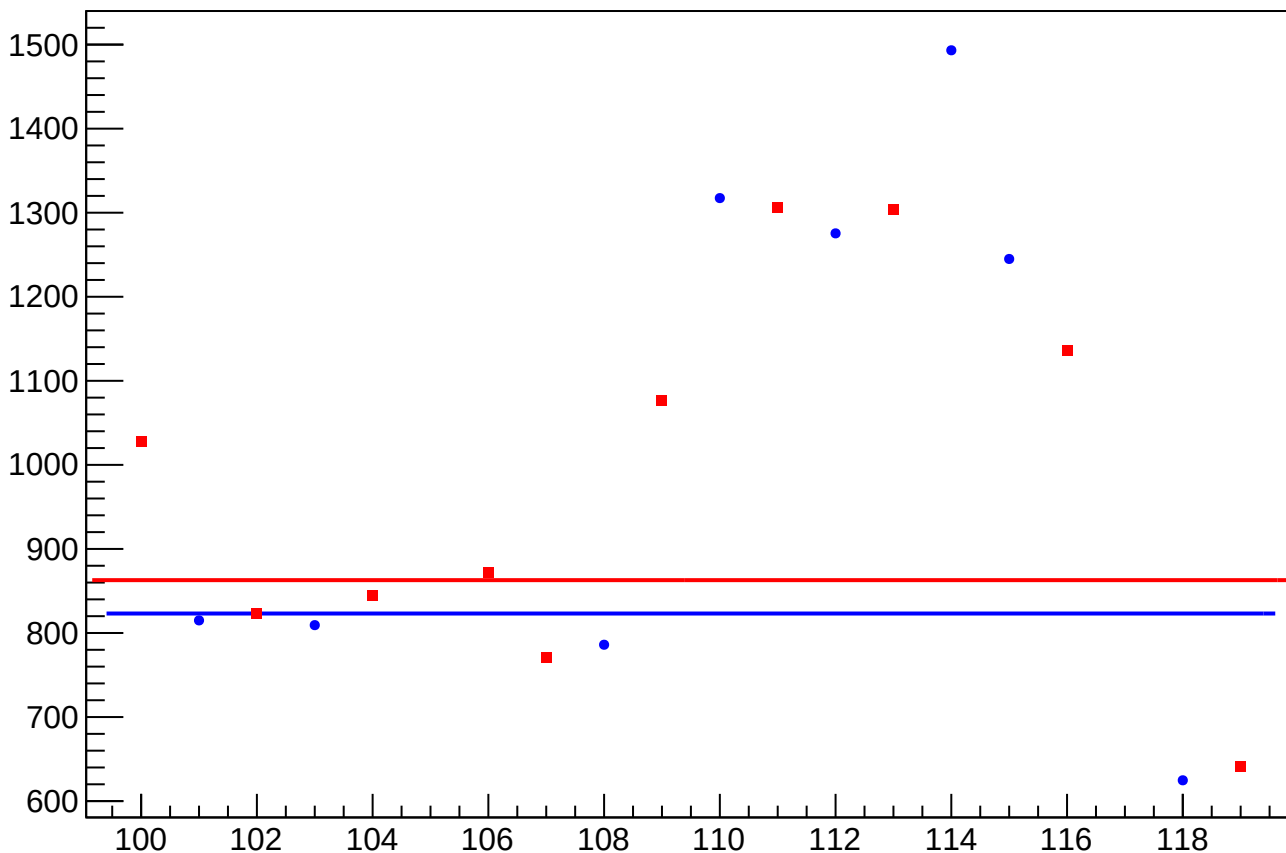
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -124.546+/-319.392  $\chi^2/\text{NDF}$ : 8.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_dit\_correction\_rms vs Slug



Right In: 823.162 $\pm$ 0.330  $\chi^2$ /NDF: 421652.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 862.864 $\pm$ 0.310  $\chi^2$ /NDF: 437276.1/9

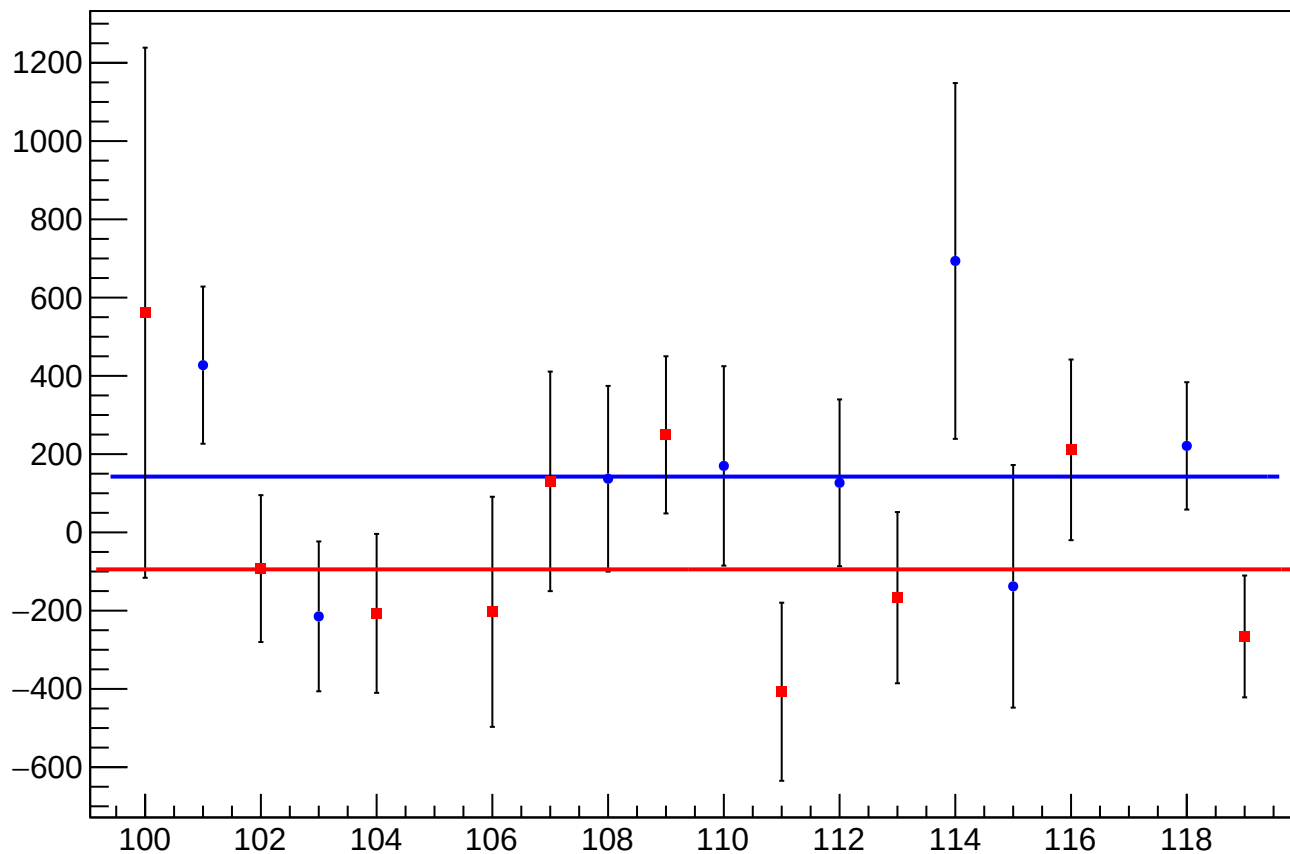
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 844.230 $\pm$ 0.226  $\chi^2$ /NDF: 866625.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 142.585 $\pm$ 78.996  $\chi^2$ /NDF: 8.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -94.519 $\pm$ 69.998  $\chi^2$ /NDF: 9.9/9

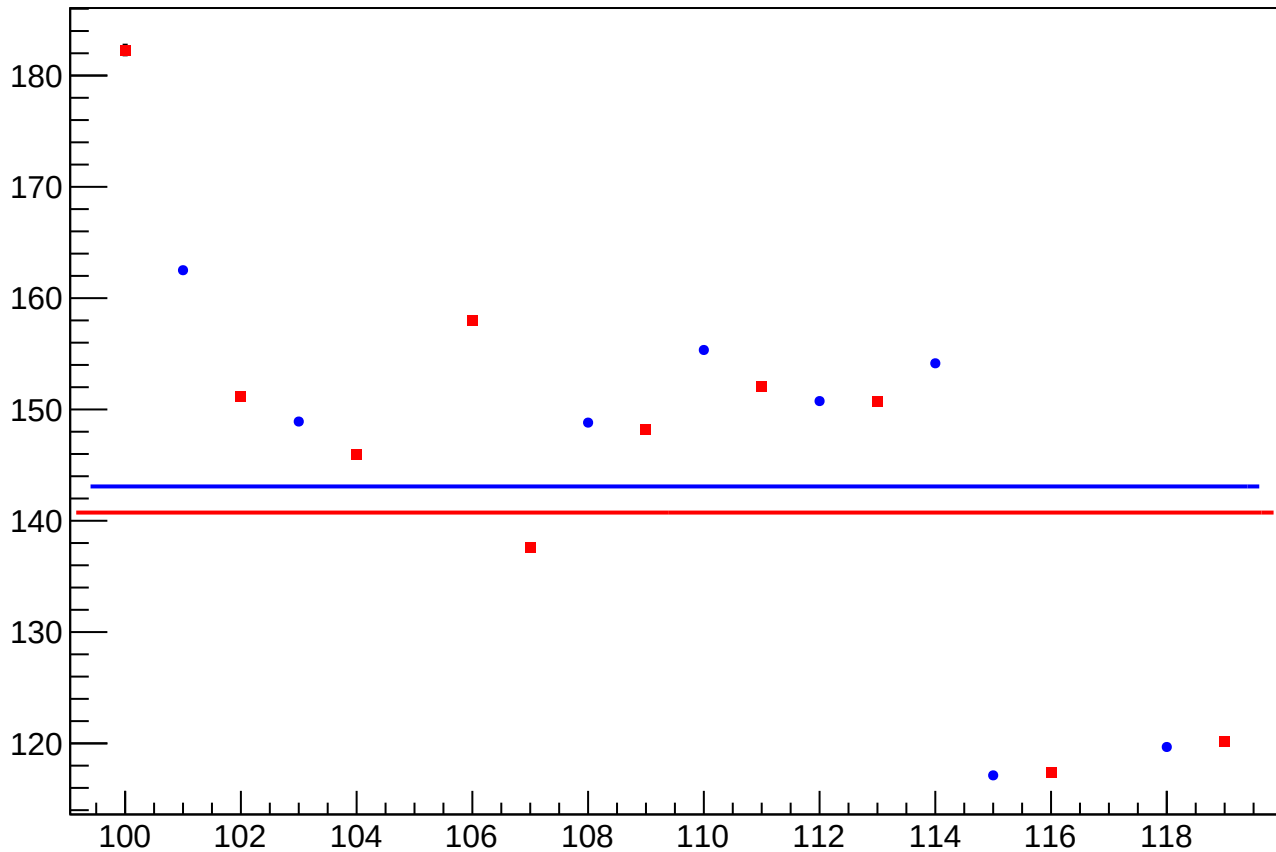
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.765 $\pm$ 52.390  $\chi^2$ /NDF: 23.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 143.083+/-0.056  $\chi^2/\text{NDF}$ : 85535.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 140.736+/-0.049  $\chi^2/\text{NDF}$ : 89486.4/9

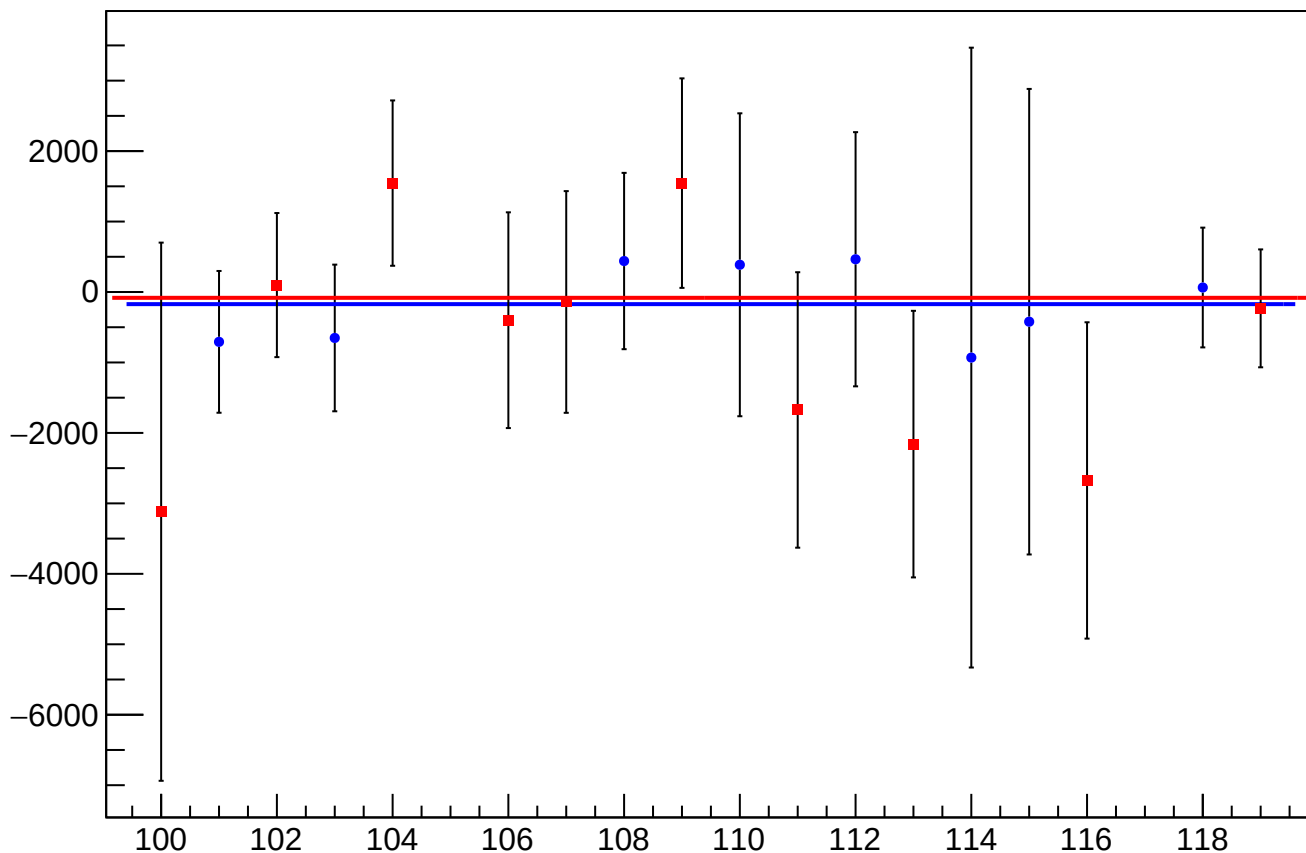
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 141.769+/-0.037  $\chi^2/\text{NDF}$ : 176010.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -172.141+/-466.199  $\chi^2/\text{NDF}$ : 1.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -82.448+/-438.451  $\chi^2/\text{NDF}$ : 7.1/9

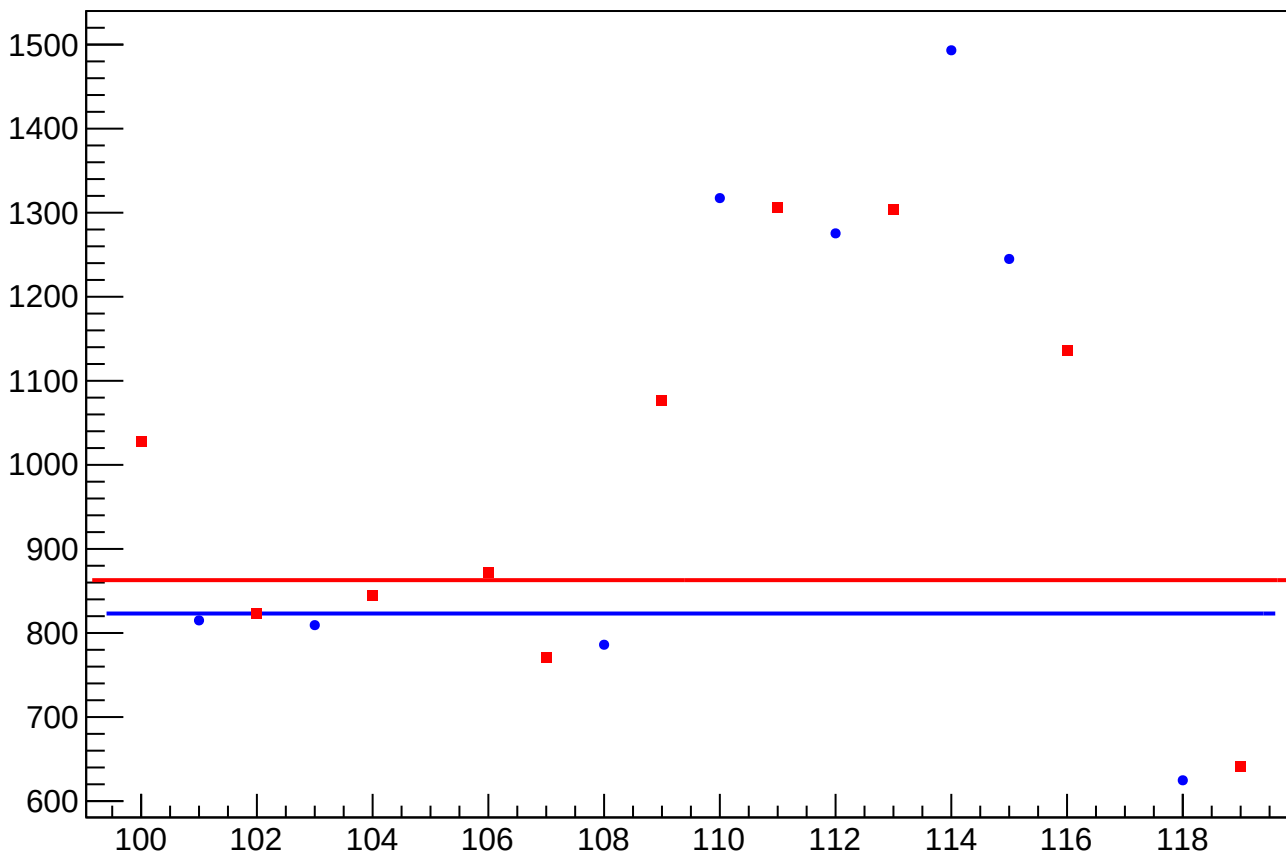
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -124.546+/-319.391  $\chi^2/\text{NDF}$ : 8.1/17

- 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: 823.161+/-0.330  $\chi^2/\text{NDF}$ : 421647.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 862.863+/-0.310  $\chi^2/\text{NDF}$ : 437271.7/9

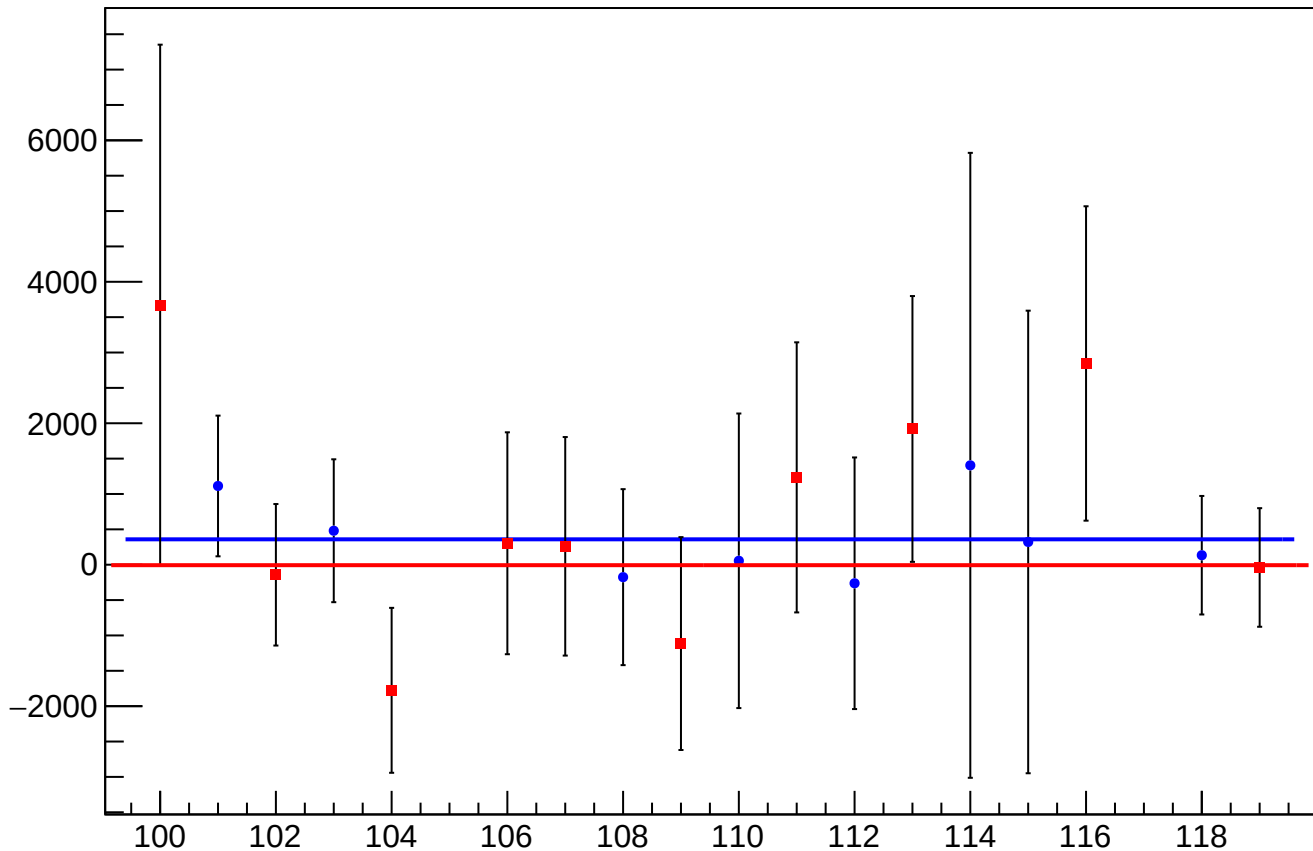
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 844.229+/-0.226  $\chi^2/\text{NDF}$ : 866616.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 358.895 $\pm$ 458.691  $\chi^2$ /NDF: 1.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -6.684 $\pm$ 436.097  $\chi^2$ /NDF: 7.1/9

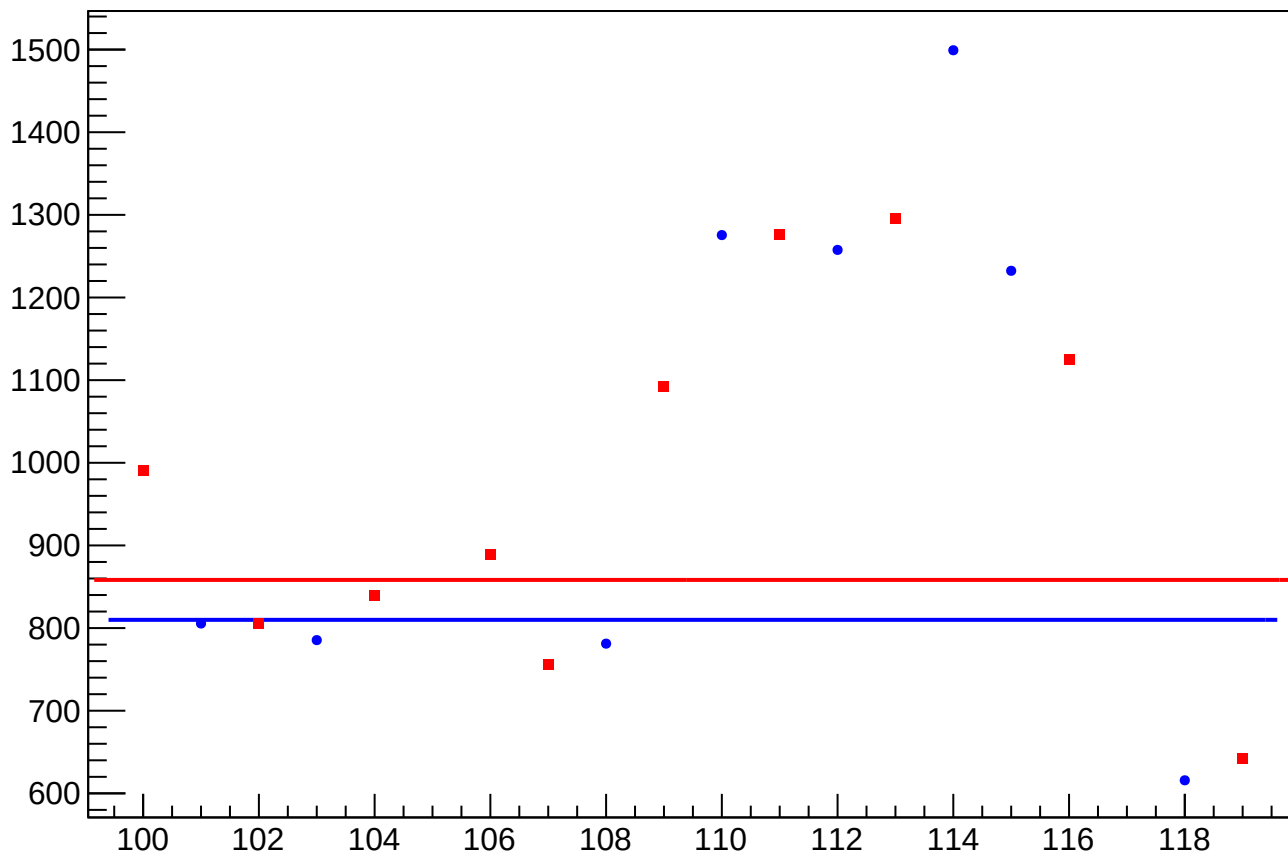
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 166.880 $\pm$ 316.053  $\chi^2$ /NDF: 8.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 809.965+/-0.324  $\chi^2/\text{NDF}$ : 418392.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 858.278+/-0.308  $\chi^2/\text{NDF}$ : 432162.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

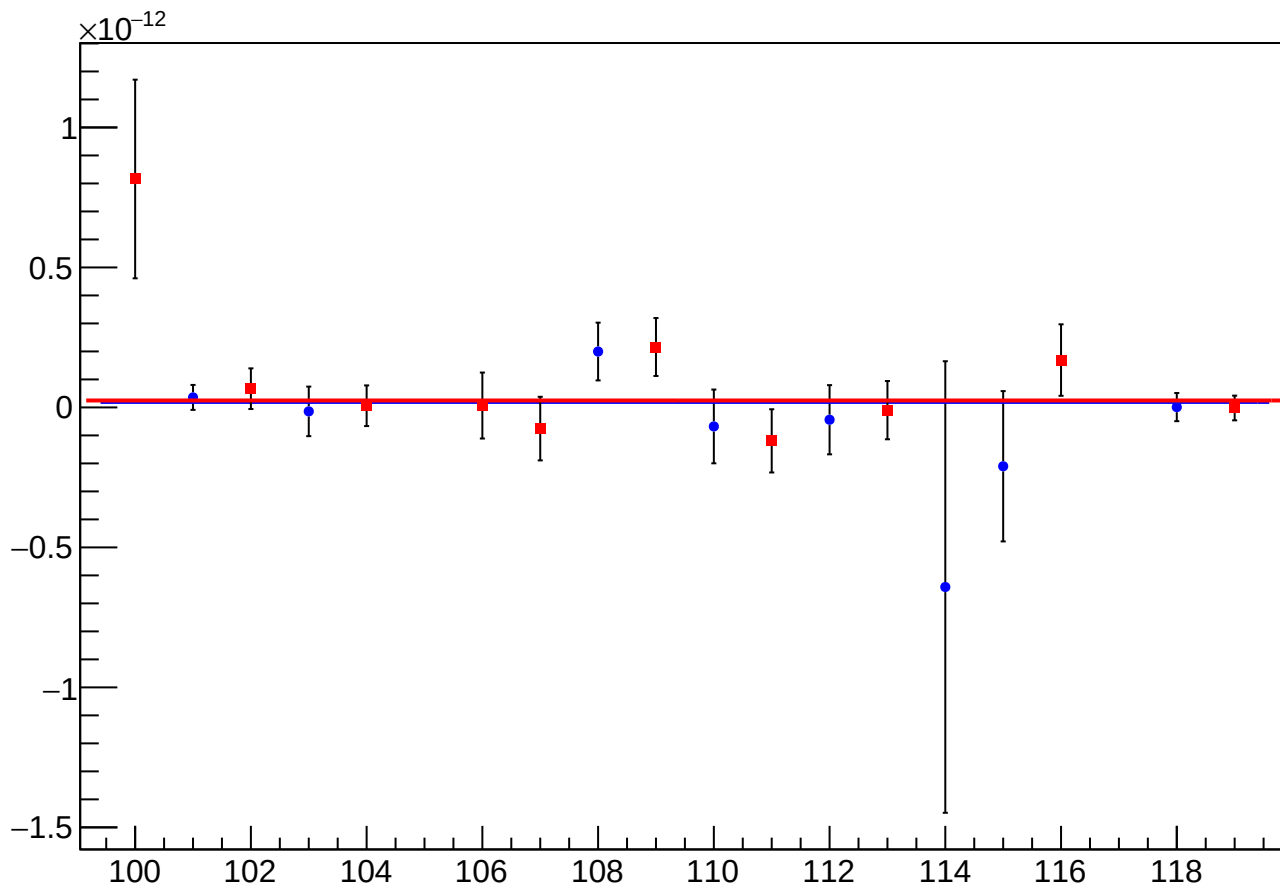
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 835.341+/-0.223  $\chi^2/\text{NDF}$ : 862208.7/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 5.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.0/9

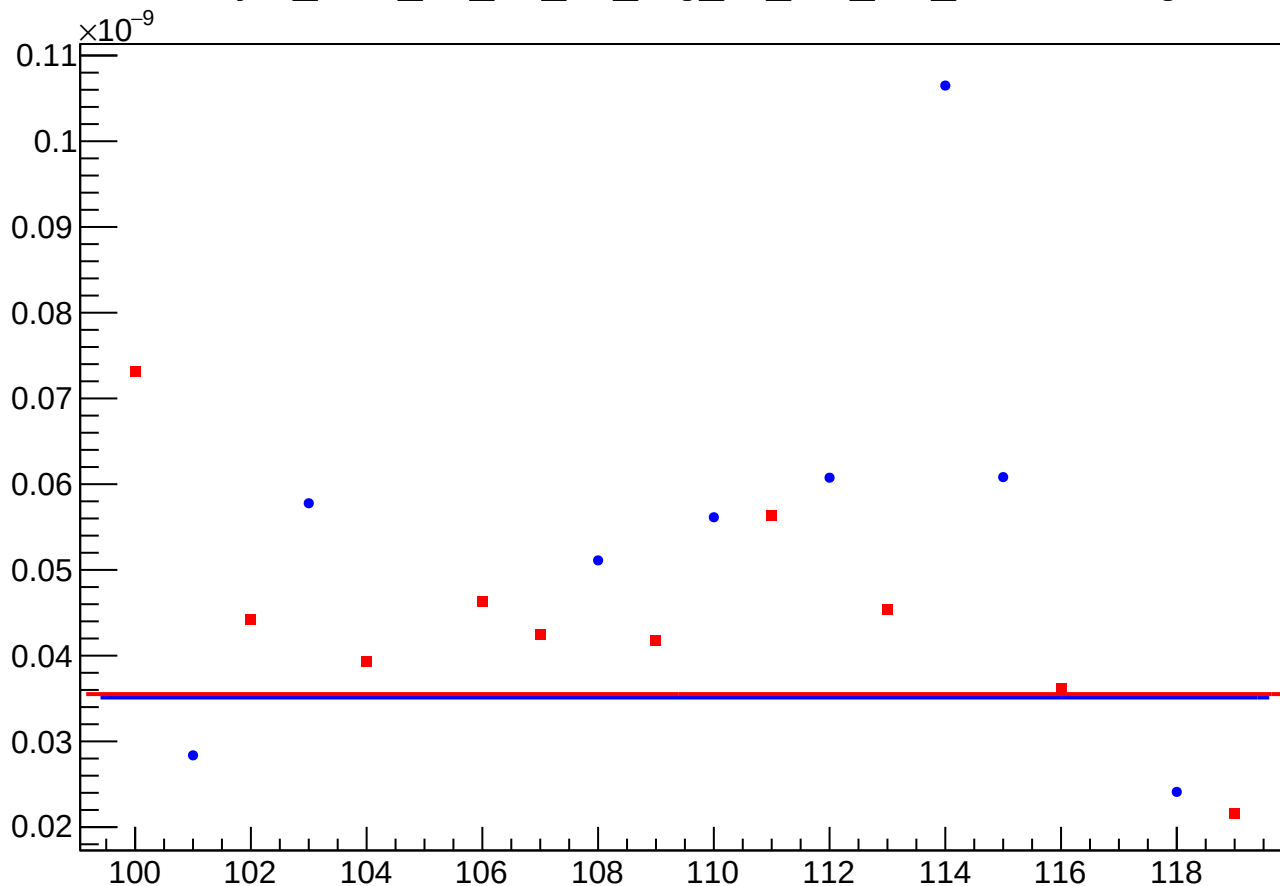
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 491917.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 373770.4/9

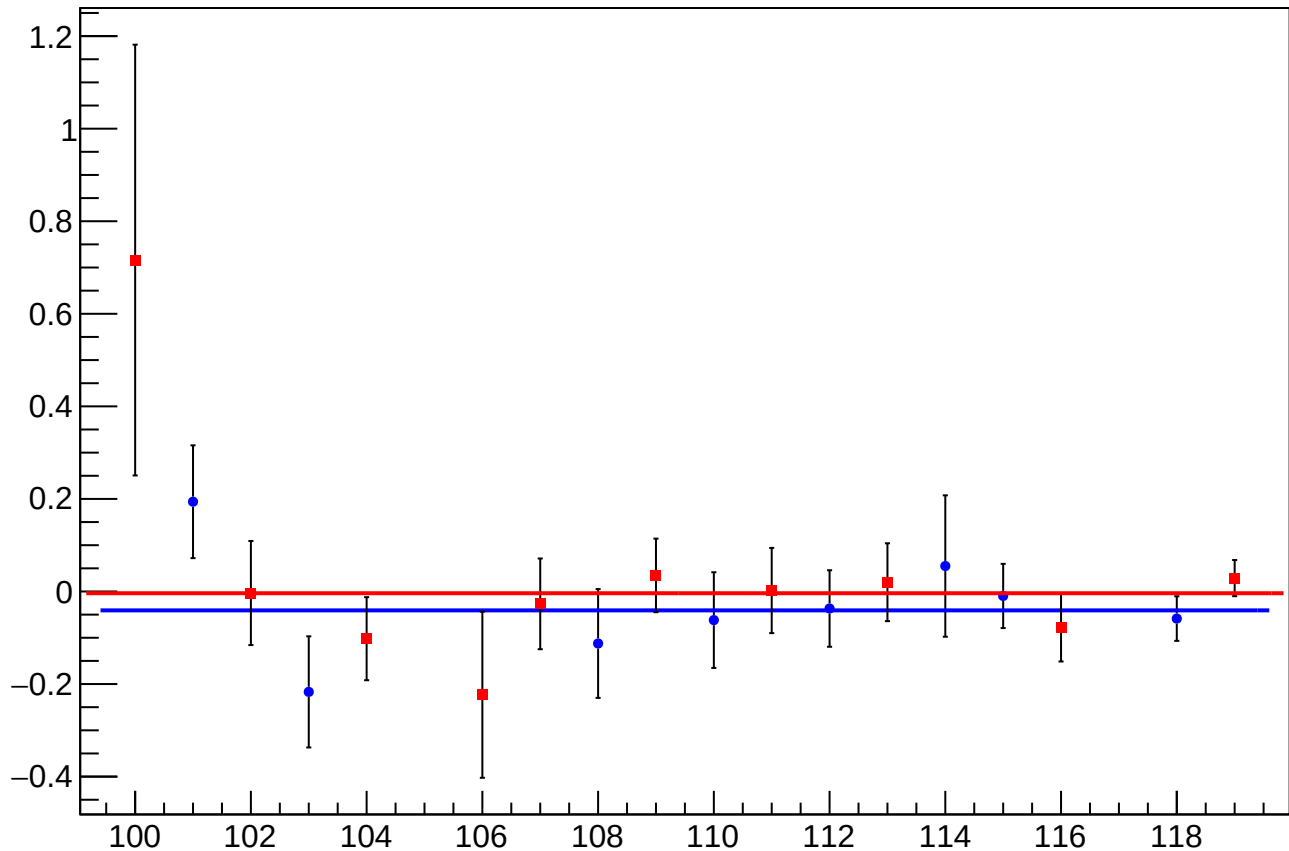
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 865895.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.041±0.030  $\chi^2/\text{NDF}$ : 7.0/7

Left Out: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.004±0.025  $\chi^2/\text{NDF}$ : 7.2/9

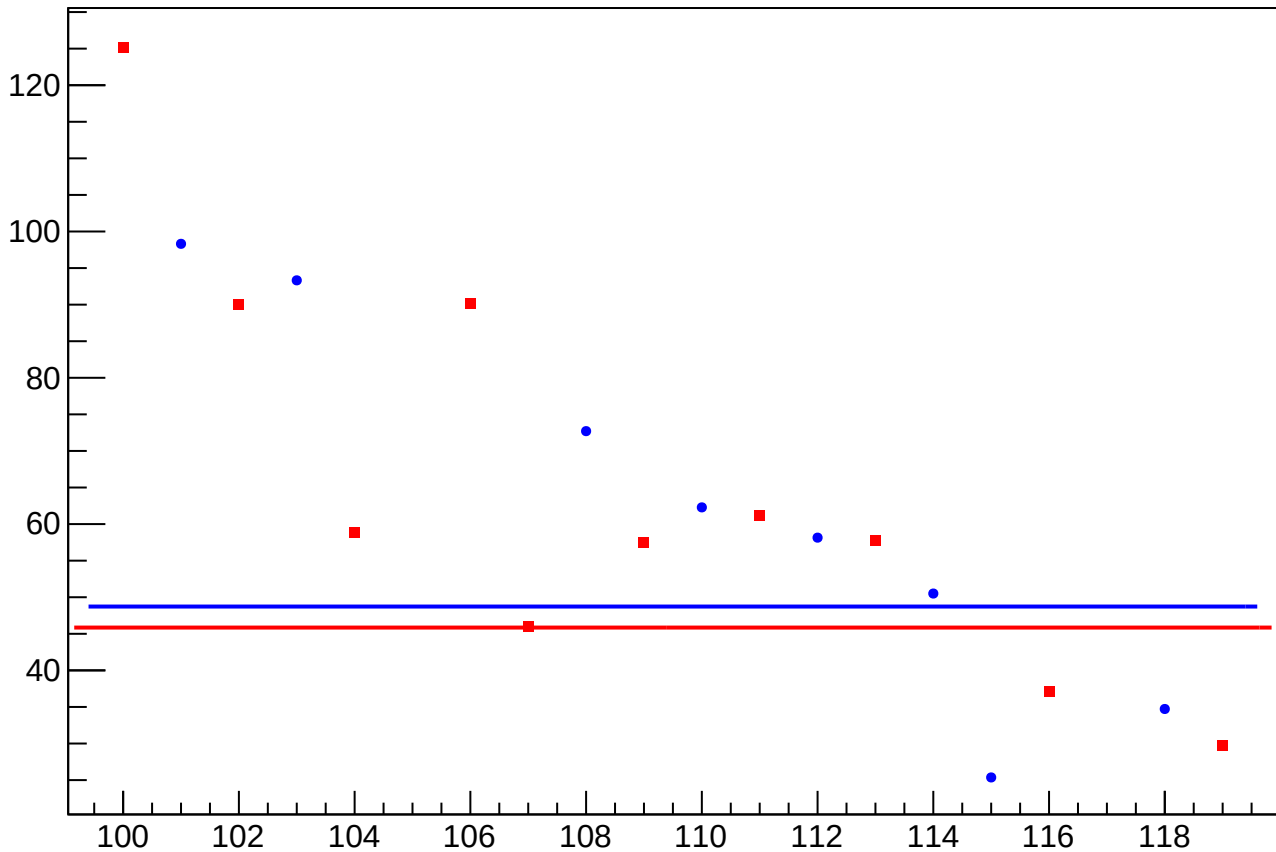
Left In: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.019±0.019  $\chi^2/\text{NDF}$ : 15.1/17

- sign 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 48.727+/-0.021  $\chi^2/\text{NDF}$ : 1146920.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 45.853+/-0.018  $\chi^2/\text{NDF}$ : 1037023.0/9

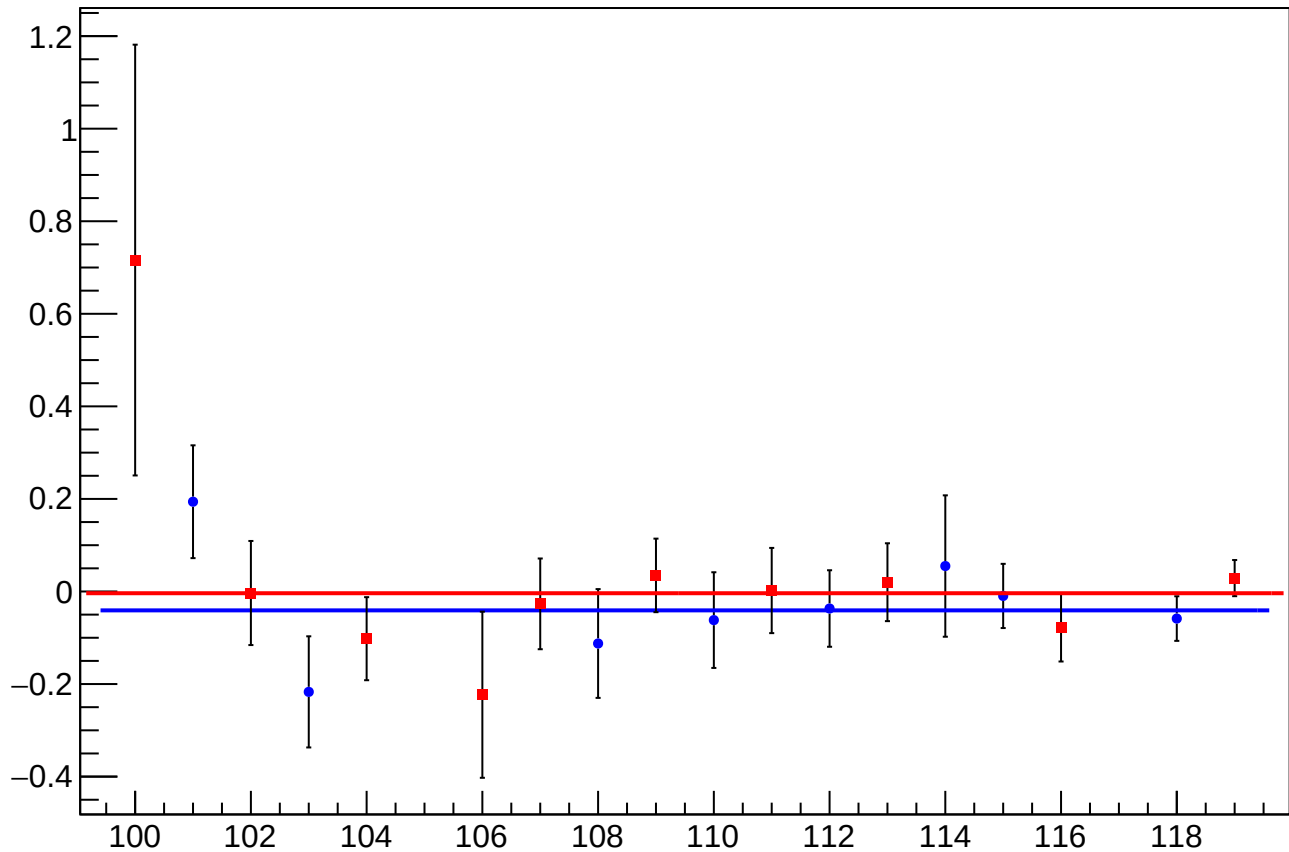
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.043+/-0.014  $\chi^2/\text{NDF}$ : 2194887.4/17

- 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: -0.041 $\pm$ 0.030  $\chi^2$ /NDF: 7.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.004 $\pm$ 0.025  $\chi^2$ /NDF: 7.2/9

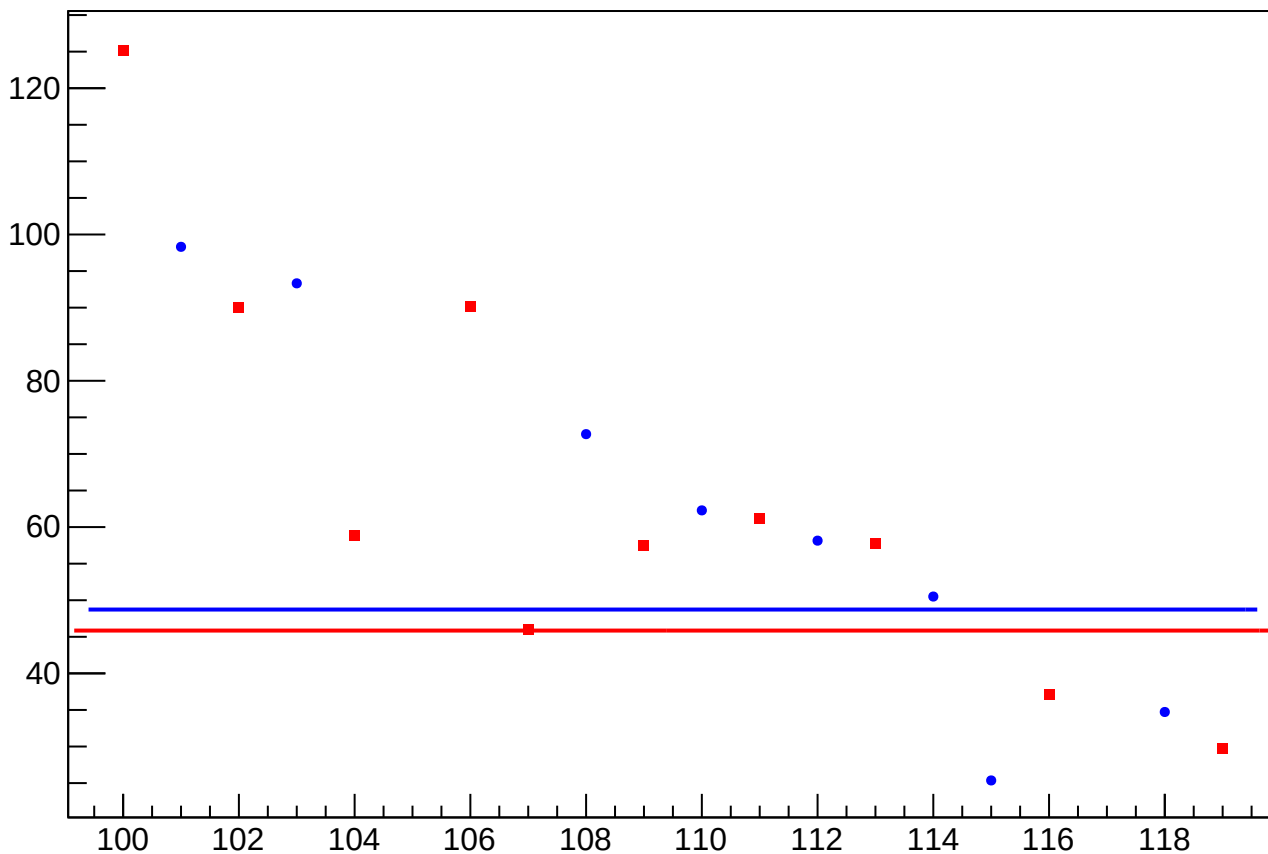
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.019 $\pm$ 0.019  $\chi^2$ /NDF: 15.1/17

- 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: 48.727 $\pm$ 0.021  $\chi^2$ /NDF: 1146920.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 45.853 $\pm$ 0.018  $\chi^2$ /NDF: 1037023.0/9

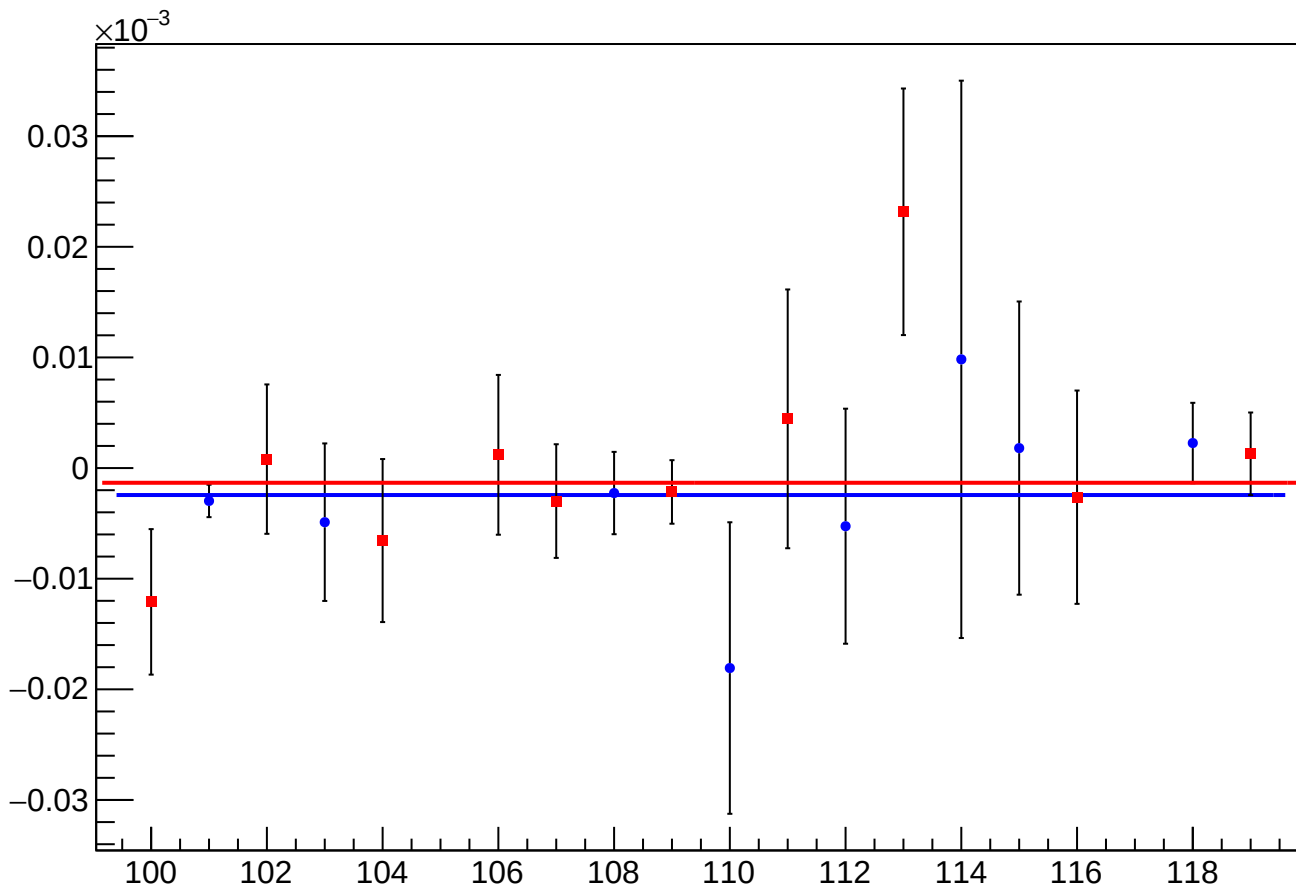
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.043 $\pm$ 0.014  $\chi^2$ /NDF: 2194887.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.2/9

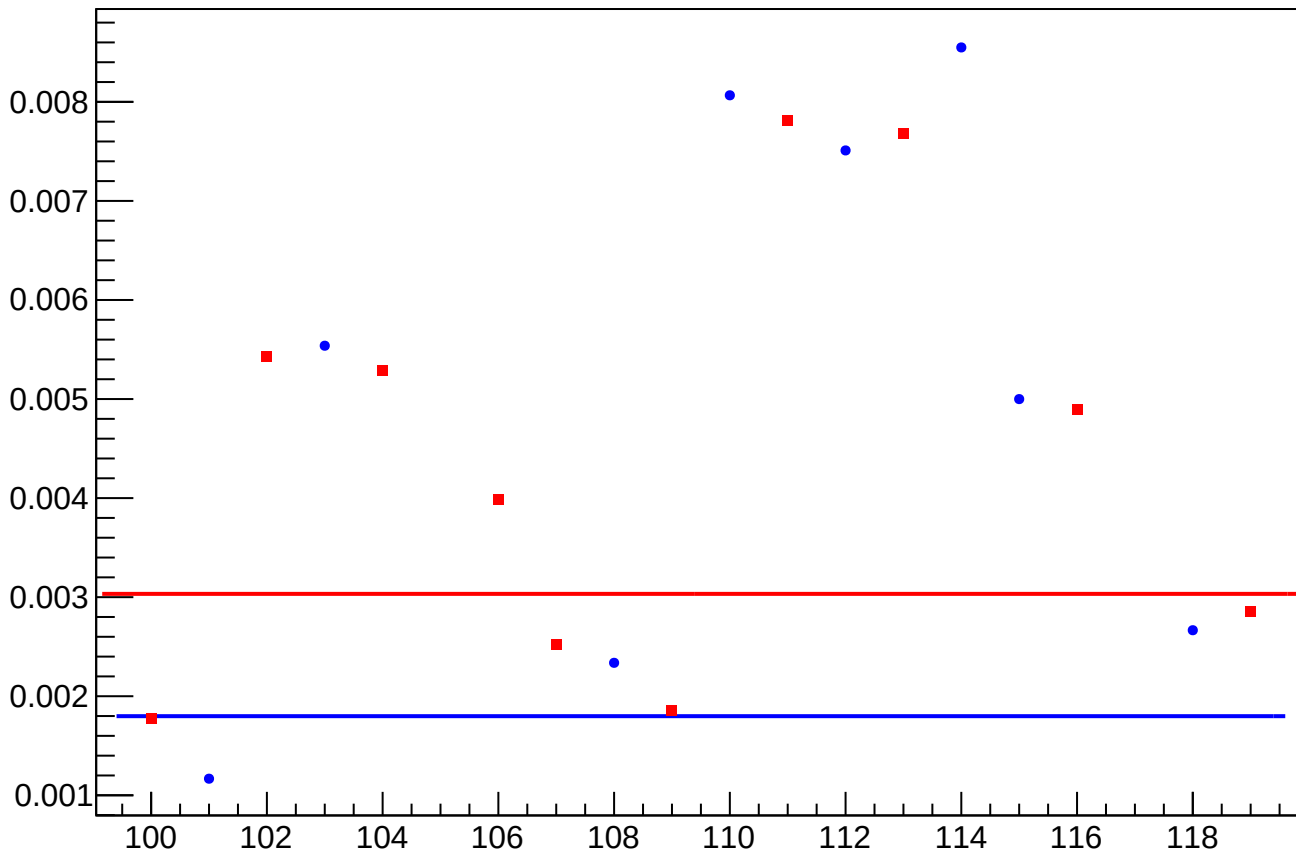
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2369900.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1669309.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

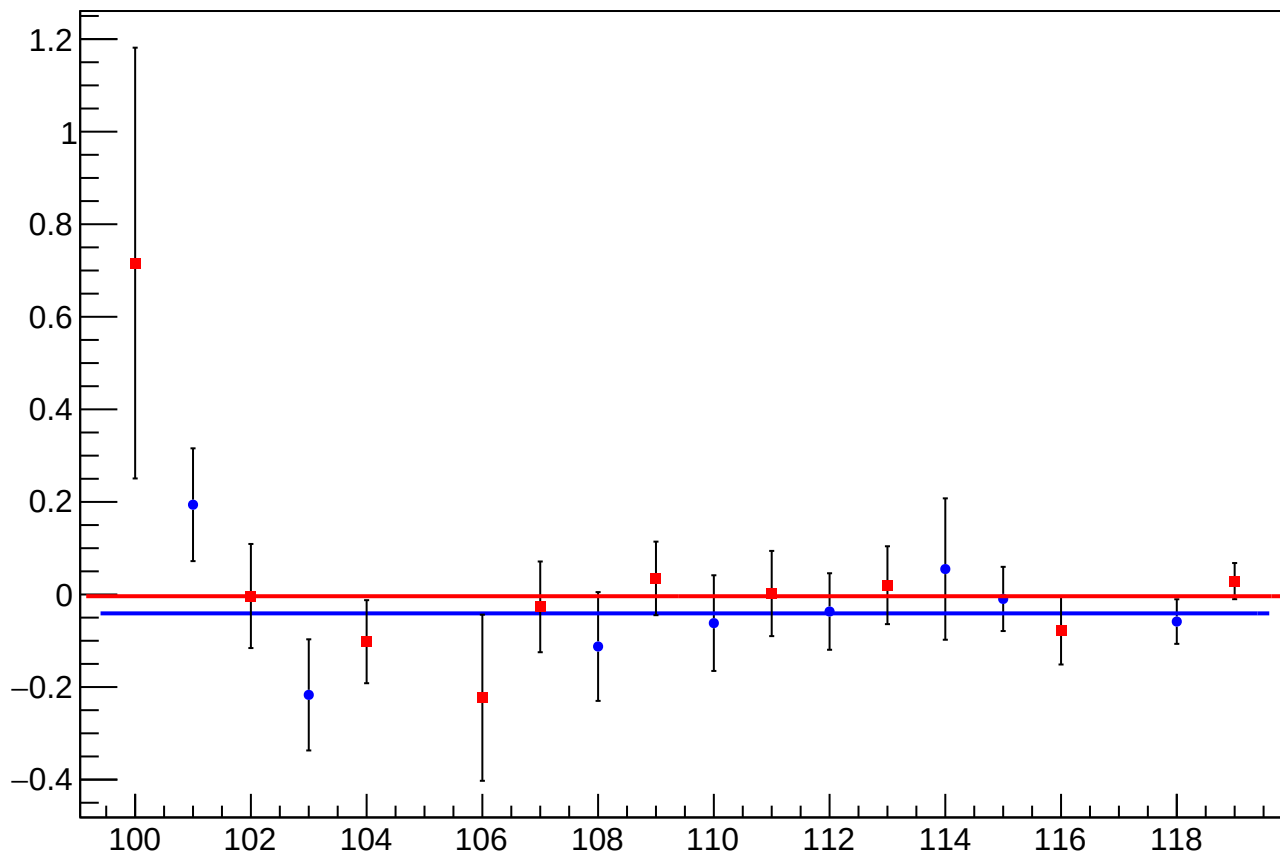
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4721062.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.041 $\pm$ 0.030  $\chi^2$ /NDF: 7.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.004 $\pm$ 0.025  $\chi^2$ /NDF: 7.2/9

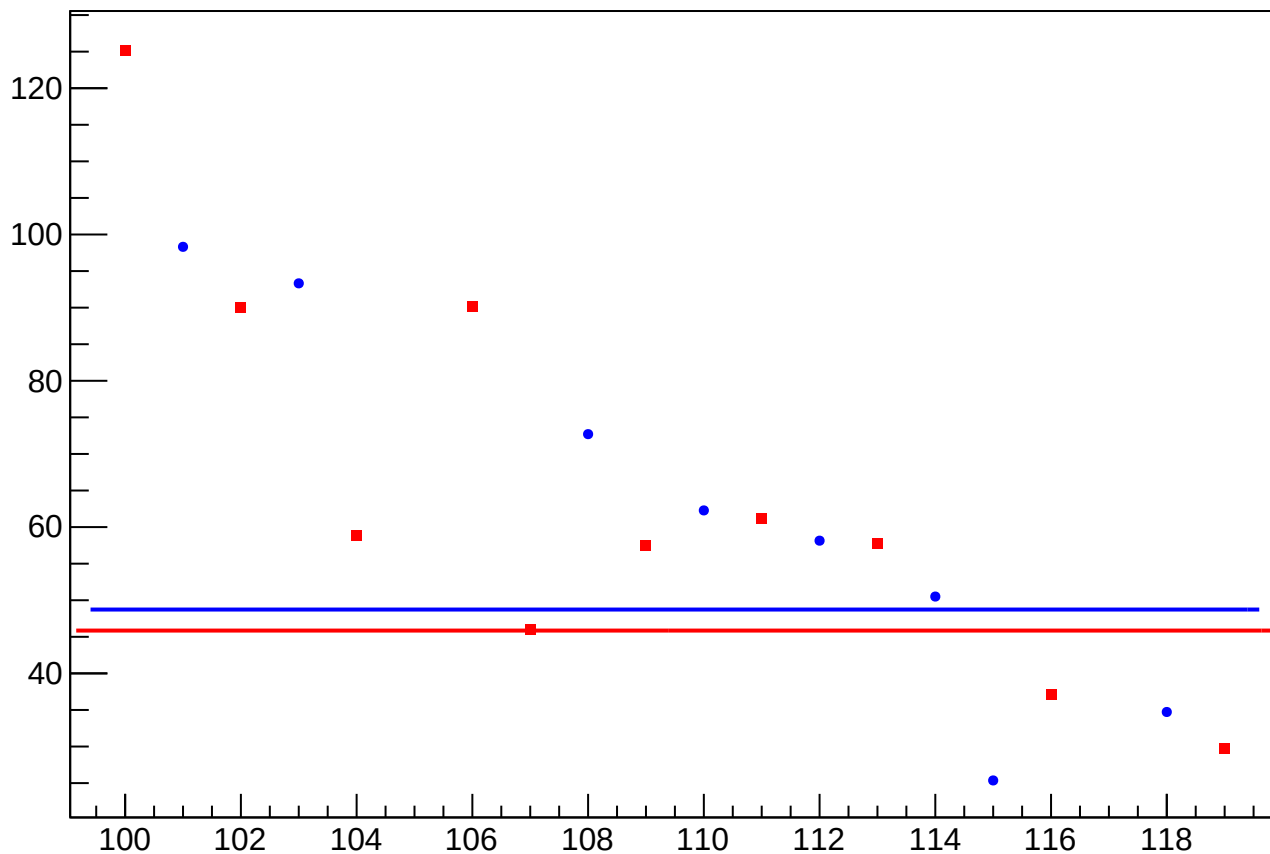
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.019 $\pm$ 0.019  $\chi^2$ /NDF: 15.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 48.728 $\pm$ 0.021  $\chi^2$ /NDF: 1146784.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 45.854 $\pm$ 0.018  $\chi^2$ /NDF: 1036882.3/9

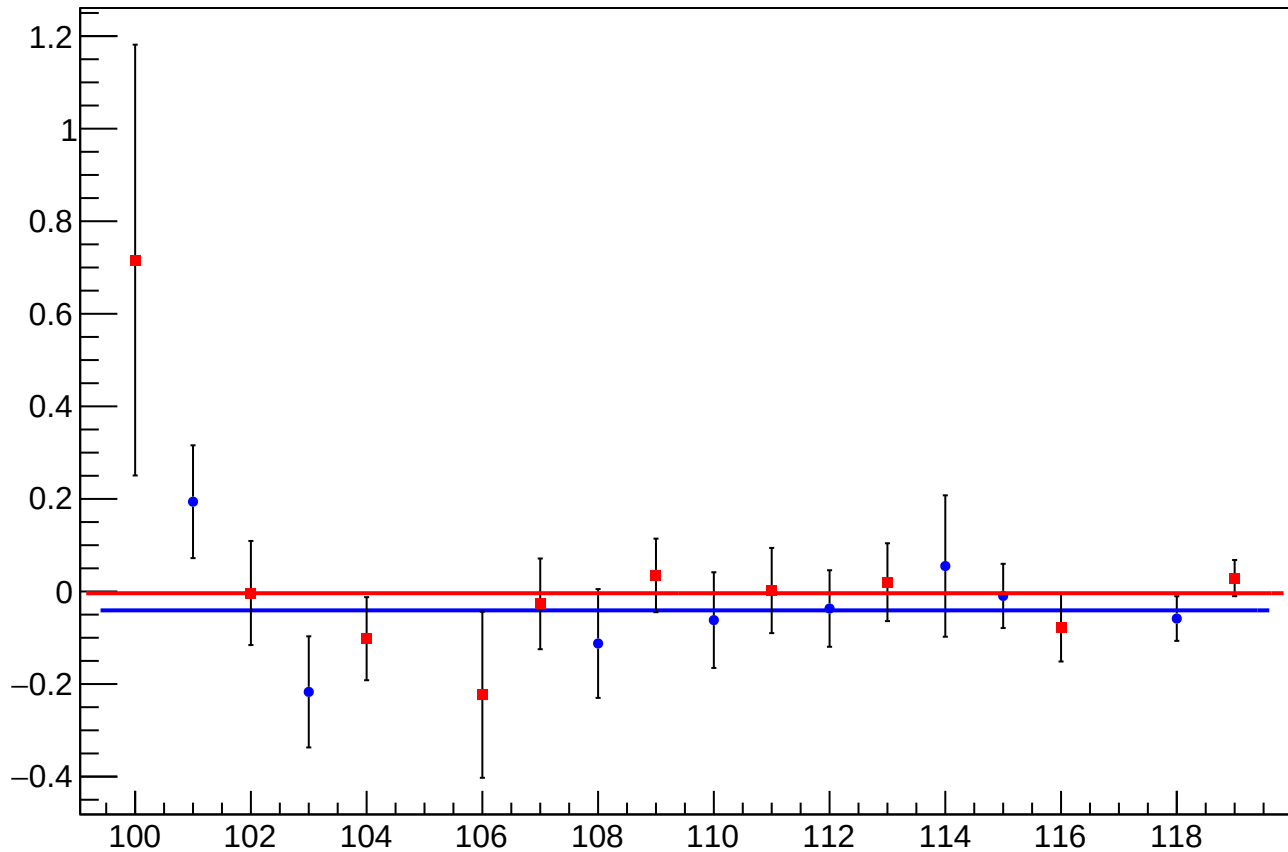
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.044 $\pm$ 0.014  $\chi^2$ /NDF: 2194614.3/17

- 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: -0.041 $\pm$ 0.030  $\chi^2$ /NDF: 7.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.004 $\pm$ 0.025  $\chi^2$ /NDF: 7.2/9

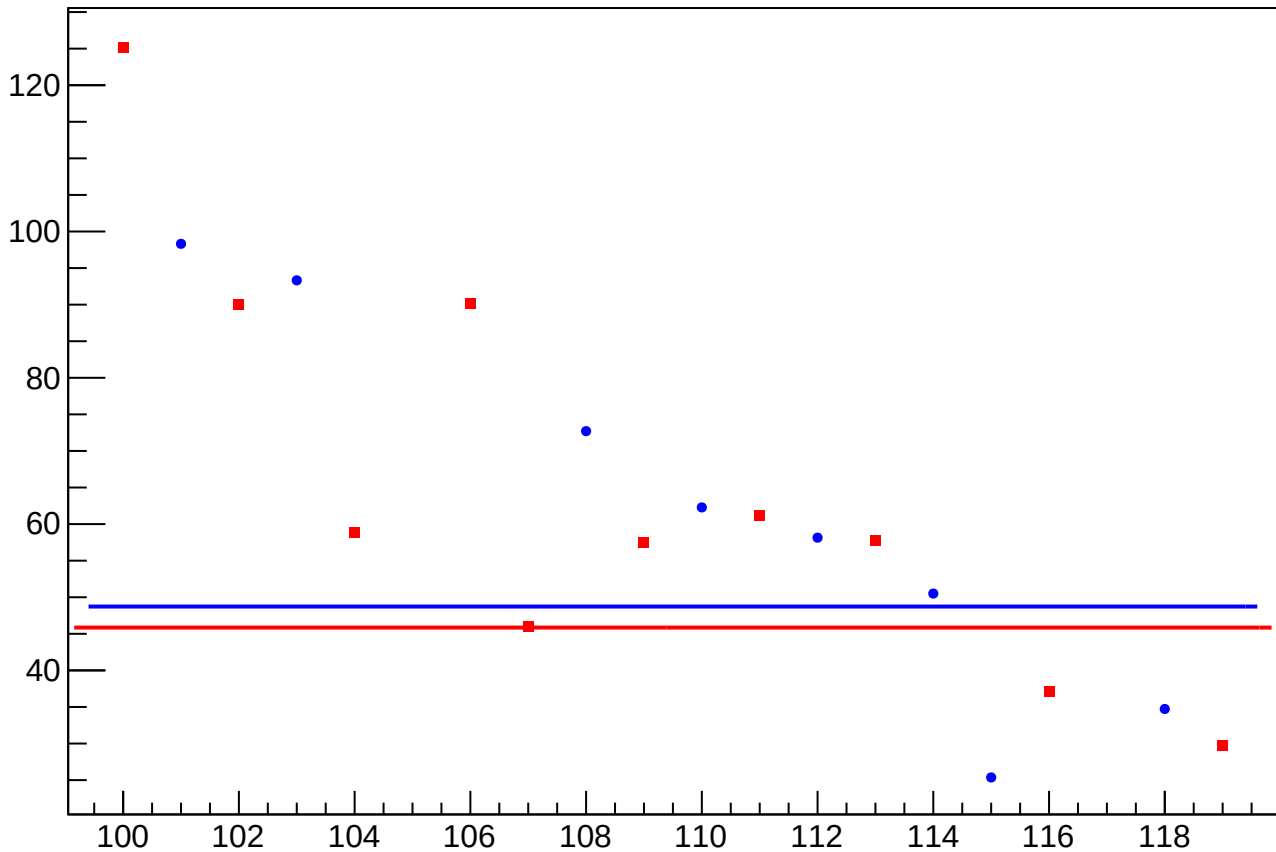
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.019 $\pm$ 0.019  $\chi^2$ /NDF: 15.1/17

- 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: 48.728+/-0.021  $\chi^2/\text{NDF}$ : 1146784.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 45.854+/-0.018  $\chi^2/\text{NDF}$ : 1036882.3/9

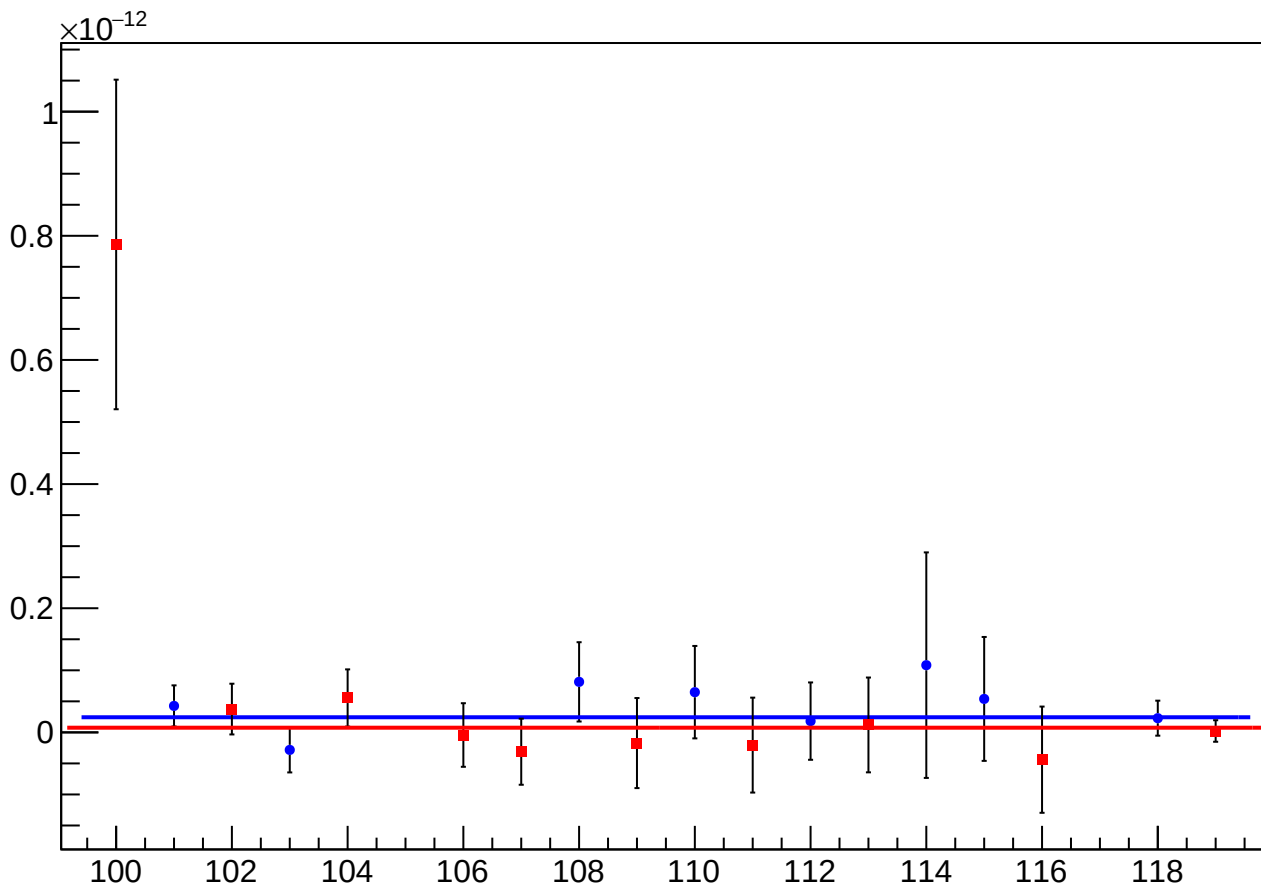
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.044+/-0.014  $\chi^2/\text{NDF}$ : 2194614.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.5/9

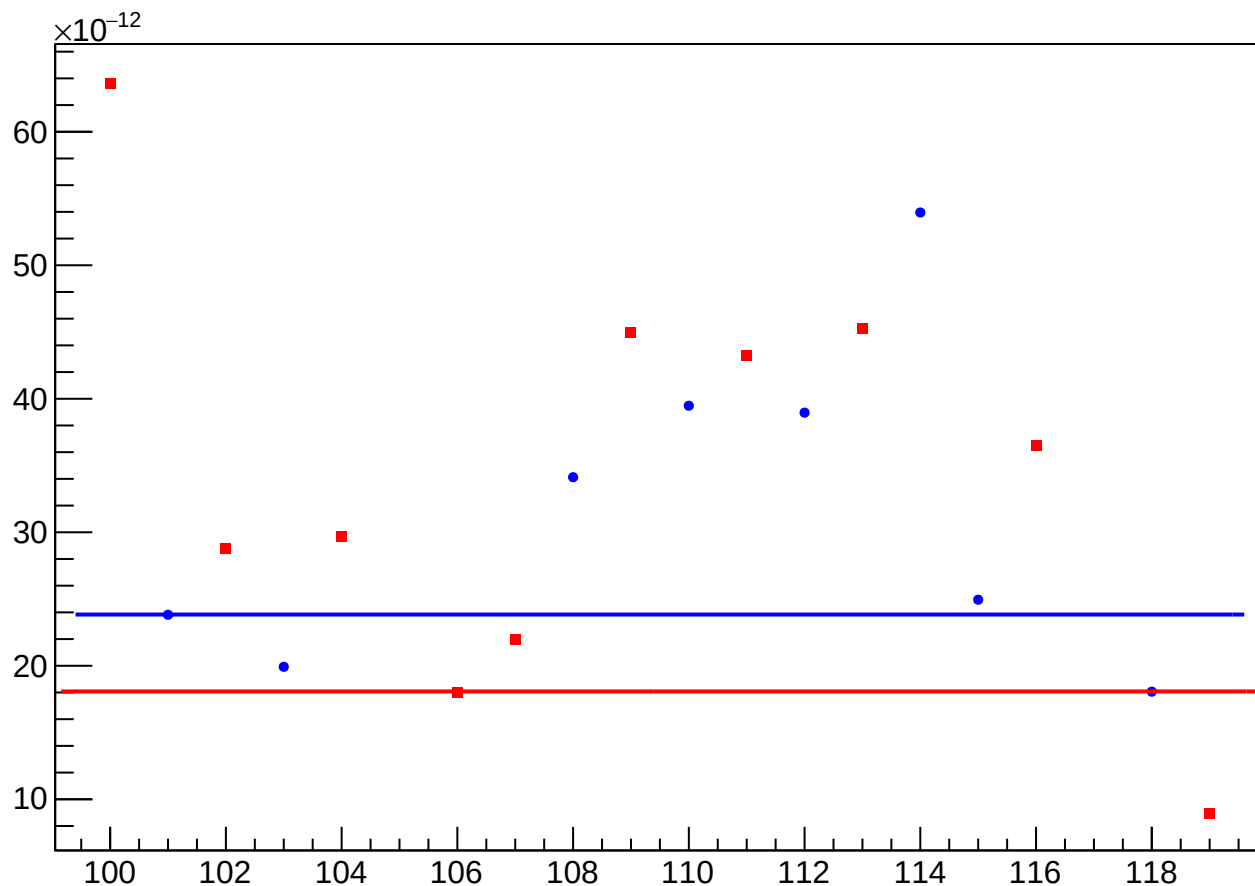
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 420475.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1727667.2/9

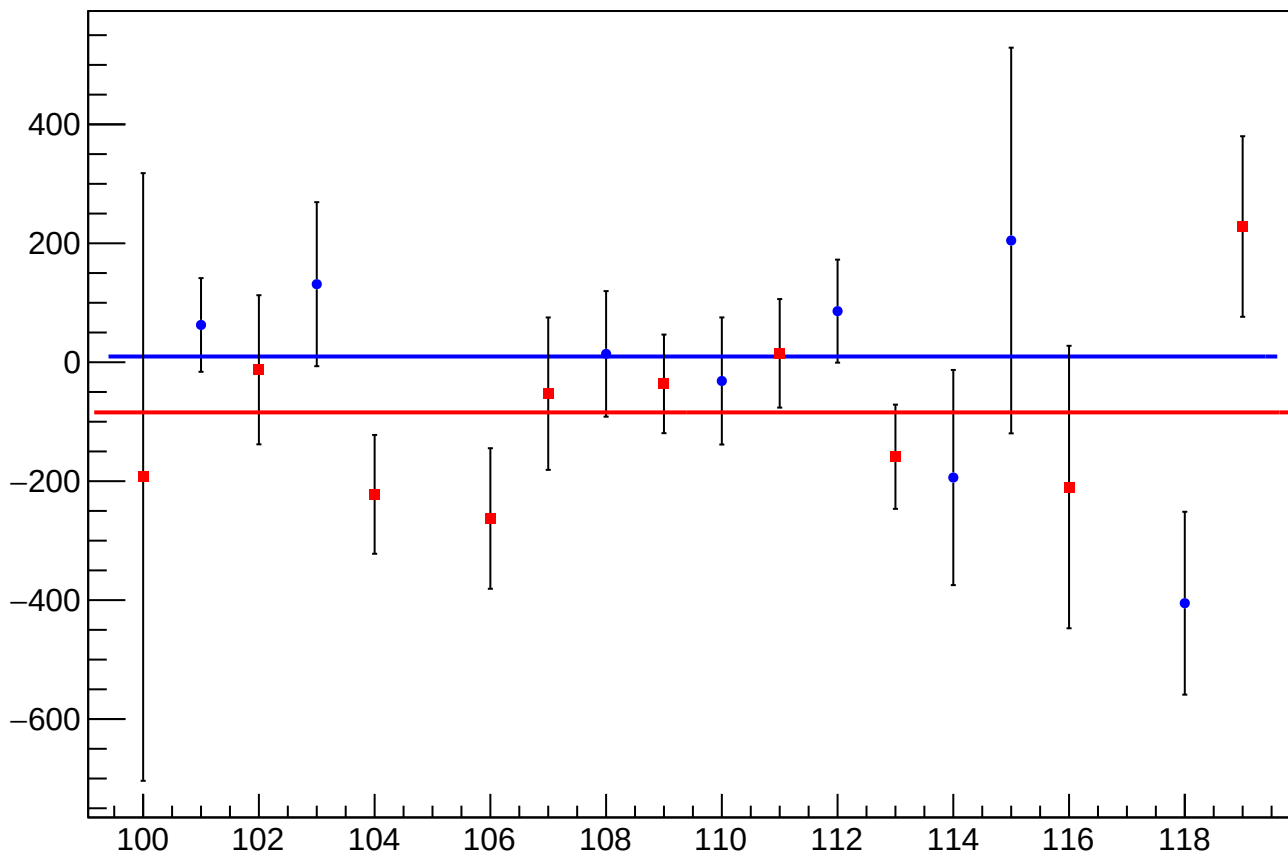
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2299310.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1548\_avg\_mean vs Slug



Right In: 9.649+/-40.601  $\chi^2/\text{NDF}$ : 11.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -84.326+/-36.347  $\chi^2/\text{NDF}$ : 11.4/9

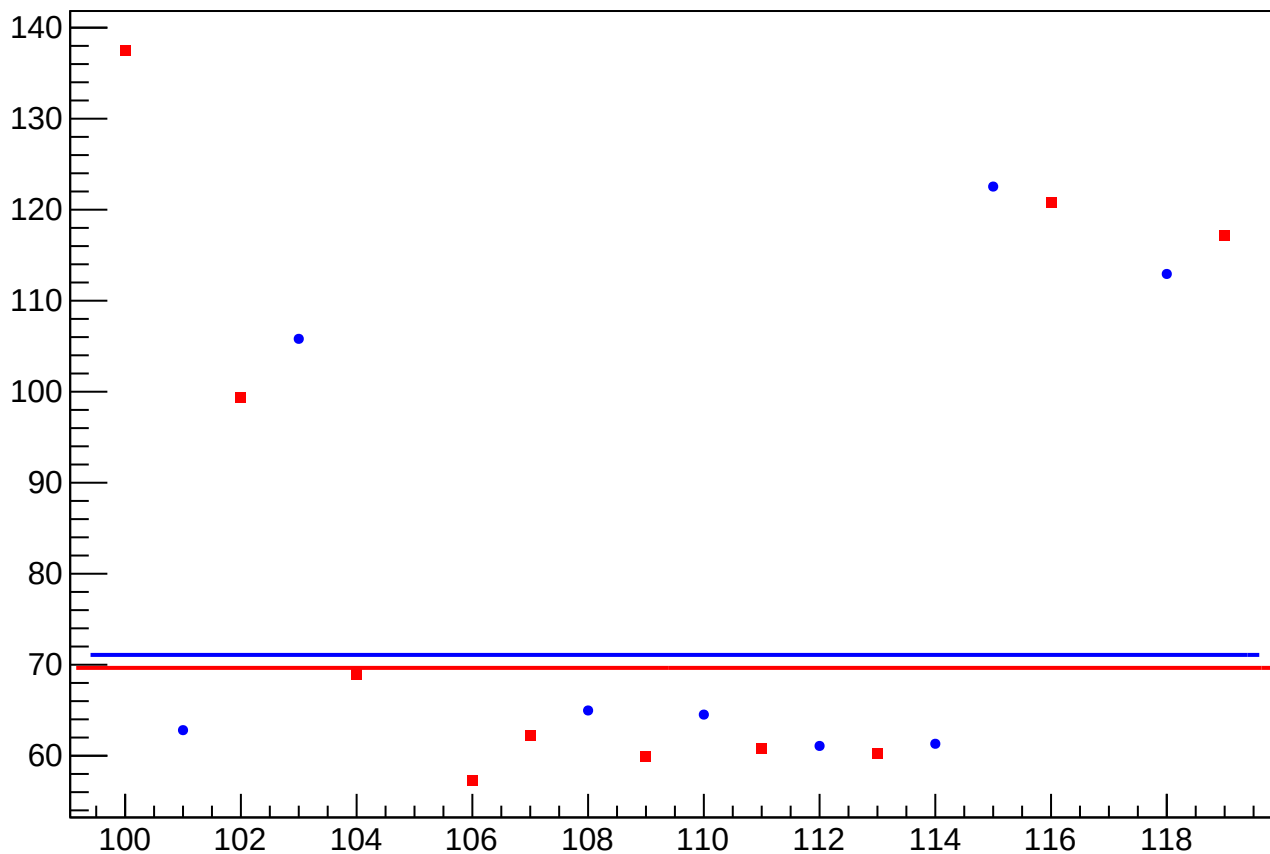
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -42.517+/-27.081  $\chi^2/\text{NDF}$ : 25.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 71.081+/-0.029  $\chi^2/\text{NDF}$ : 394166.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.654+/-0.026  $\chi^2/\text{NDF}$ : 533339.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

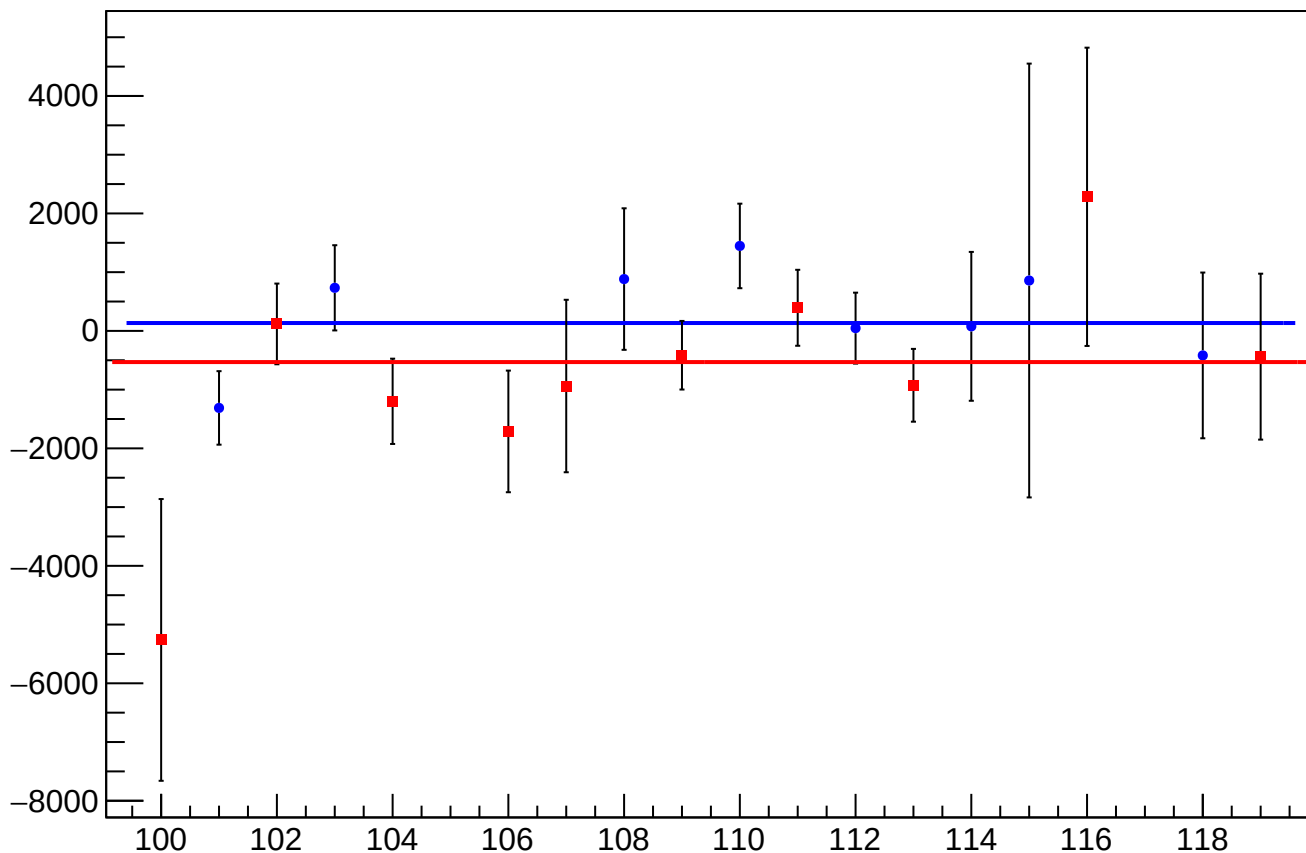
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.289+/-0.019  $\chi^2/\text{NDF}$ : 928876.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1548\_avg\_reg\_correction\_mean vs Slug



Right In: 134.195 $\pm$ 301.335  $\chi^2$ /NDF: 9.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -530.662 $\pm$ 265.667  $\chi^2$ /NDF: 10.7/9

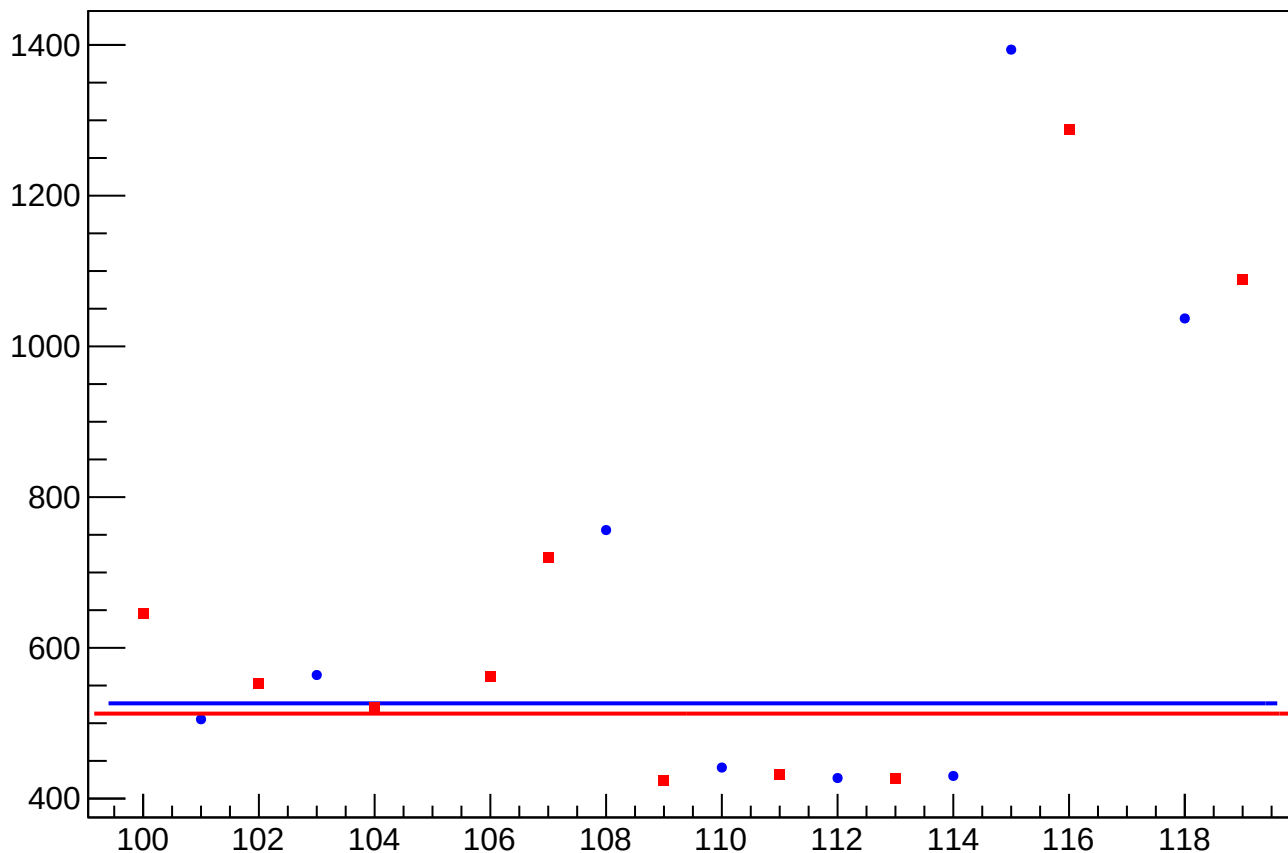
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -239.892 $\pm$ 199.278  $\chi^2$ /NDF: 23.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_reg\_correction\_rms vs Slug



Right In: 526.358+/-0.213  $\chi^2/\text{NDF}$ : 546330.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 512.747+/-0.188  $\chi^2/\text{NDF}$ : 692155.2/9

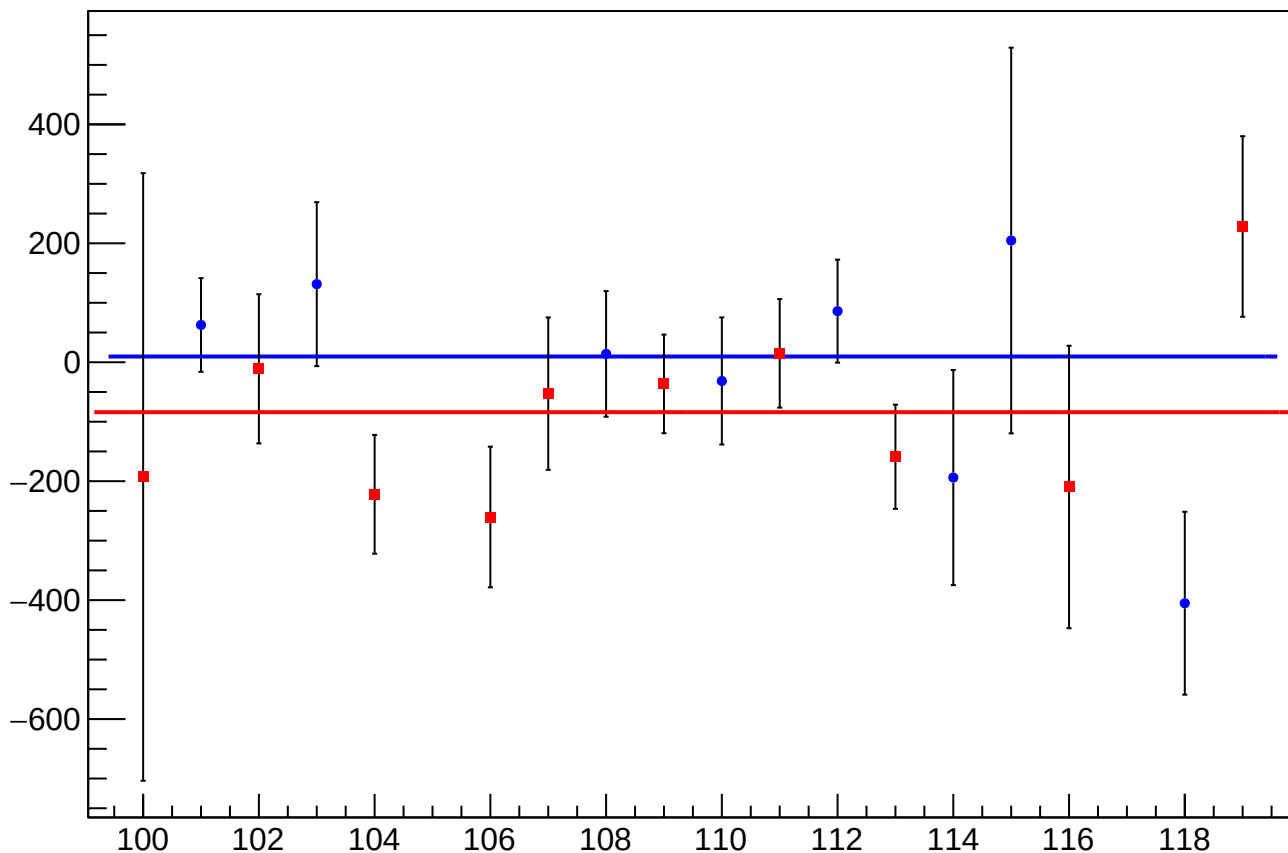
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 518.699+/-0.141  $\chi^2/\text{NDF}$ : 1240781.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1548\_avg\_mean vs Slug



Right In: 9.643+/-40.601  $\chi^2/\text{NDF}$ : 11.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -83.931+/-36.351  $\chi^2/\text{NDF}$ : 11.3/9

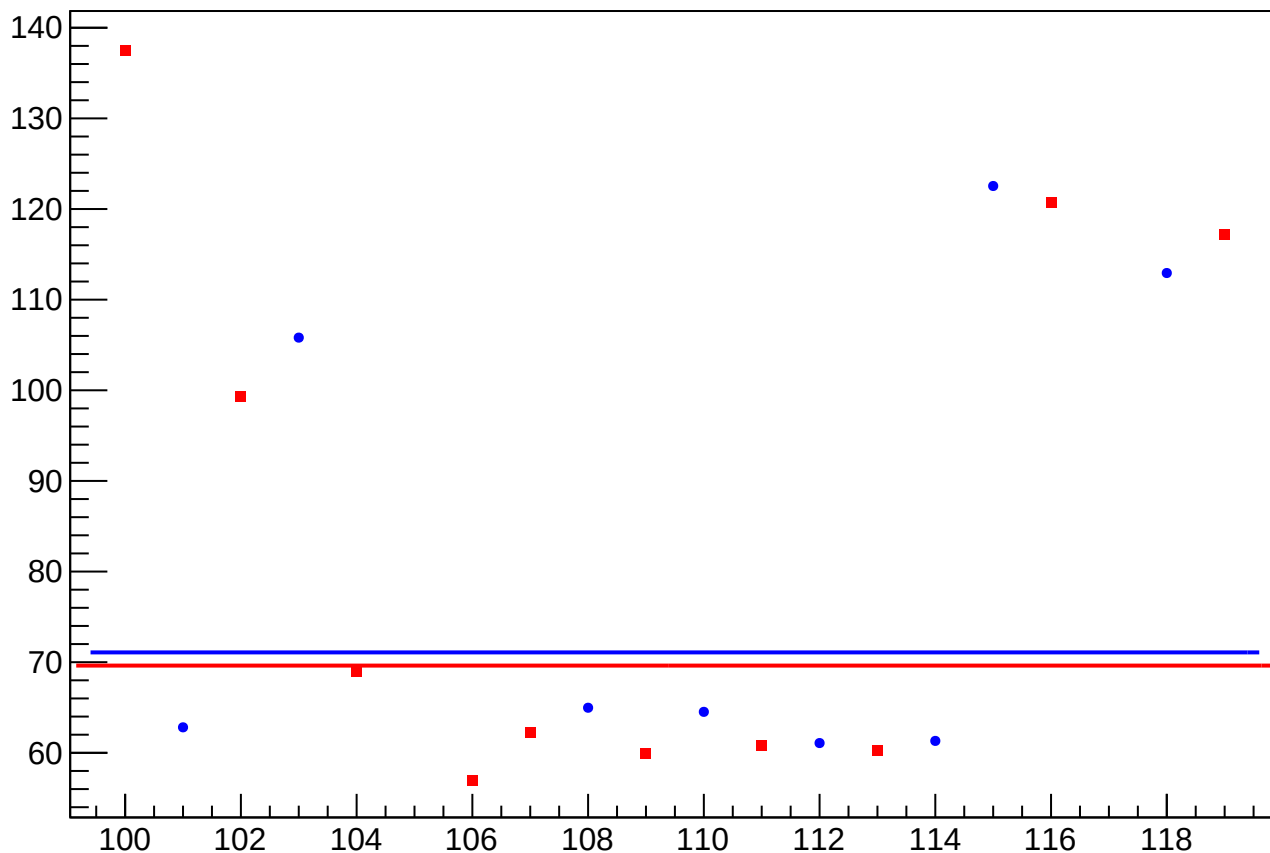
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -42.297+/-27.082  $\chi^2/\text{NDF}$ : 25.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 71.081+/-0.029  $\chi^2/\text{NDF}$ : 394169.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.625+/-0.026  $\chi^2/\text{NDF}$ : 534737.2/9

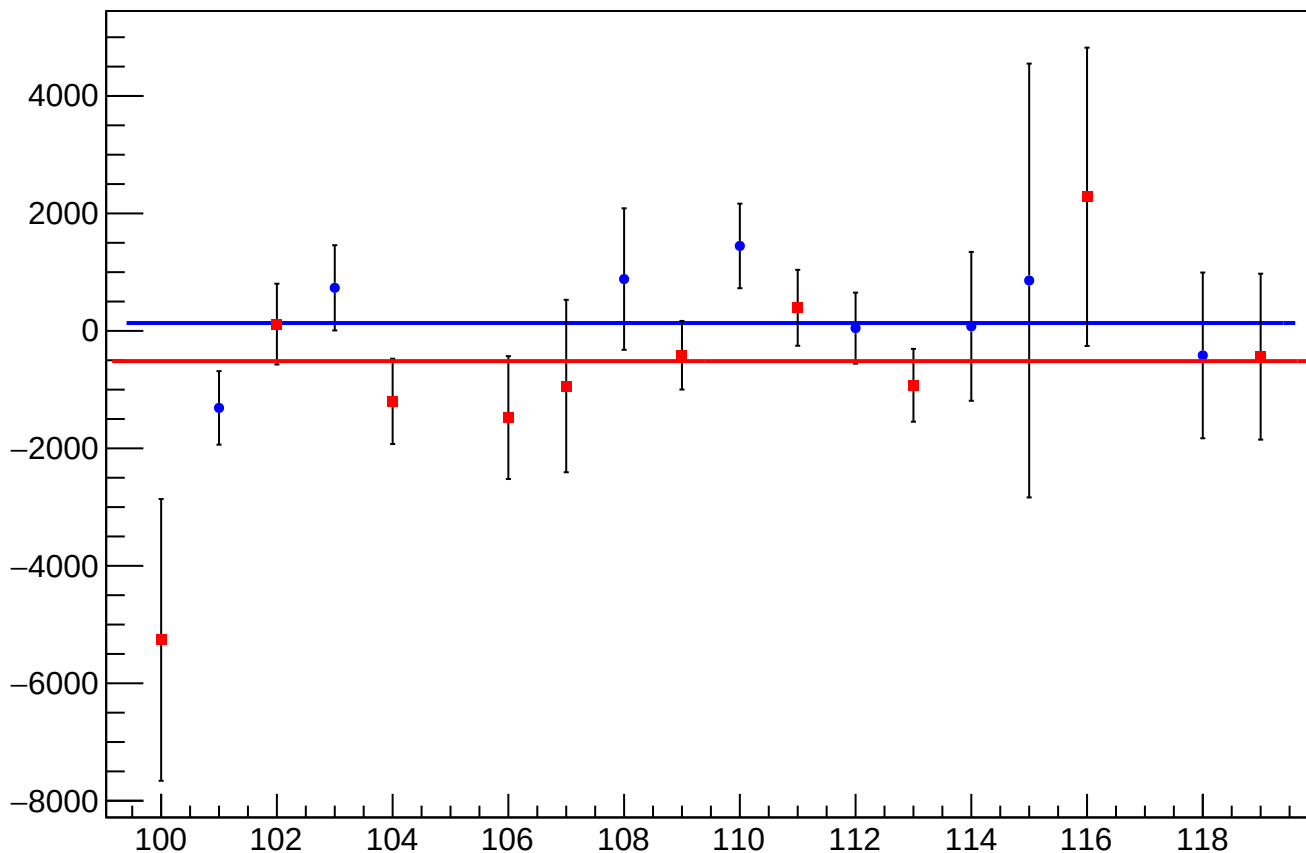
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.273+/-0.019  $\chi^2/\text{NDF}$ : 930333.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_cor\_correction\_mean vs Slug



Right In: 134.159+/-301.340  $\chi^2/\text{NDF}$ : 9.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -514.545+/-265.871  $\chi^2/\text{NDF}$ : 10.2/9

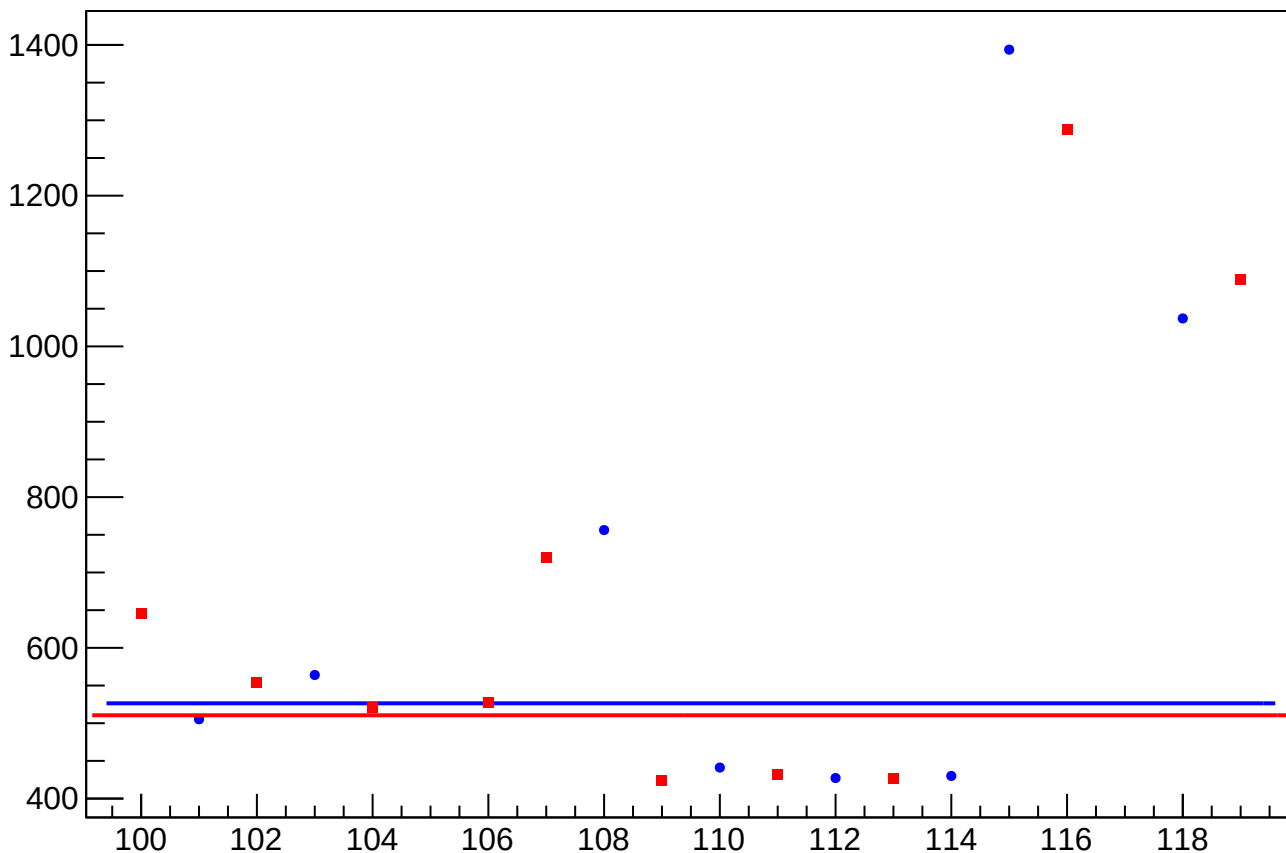
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -230.600+/-199.366  $\chi^2/\text{NDF}$ : 22.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_cor\_correction\_rms vs Slug



Right In: 526.366 $\pm$ 0.213  $\chi^2$ /NDF: 546343.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 510.525 $\pm$ 0.188  $\chi^2$ /NDF: 688087.3/9

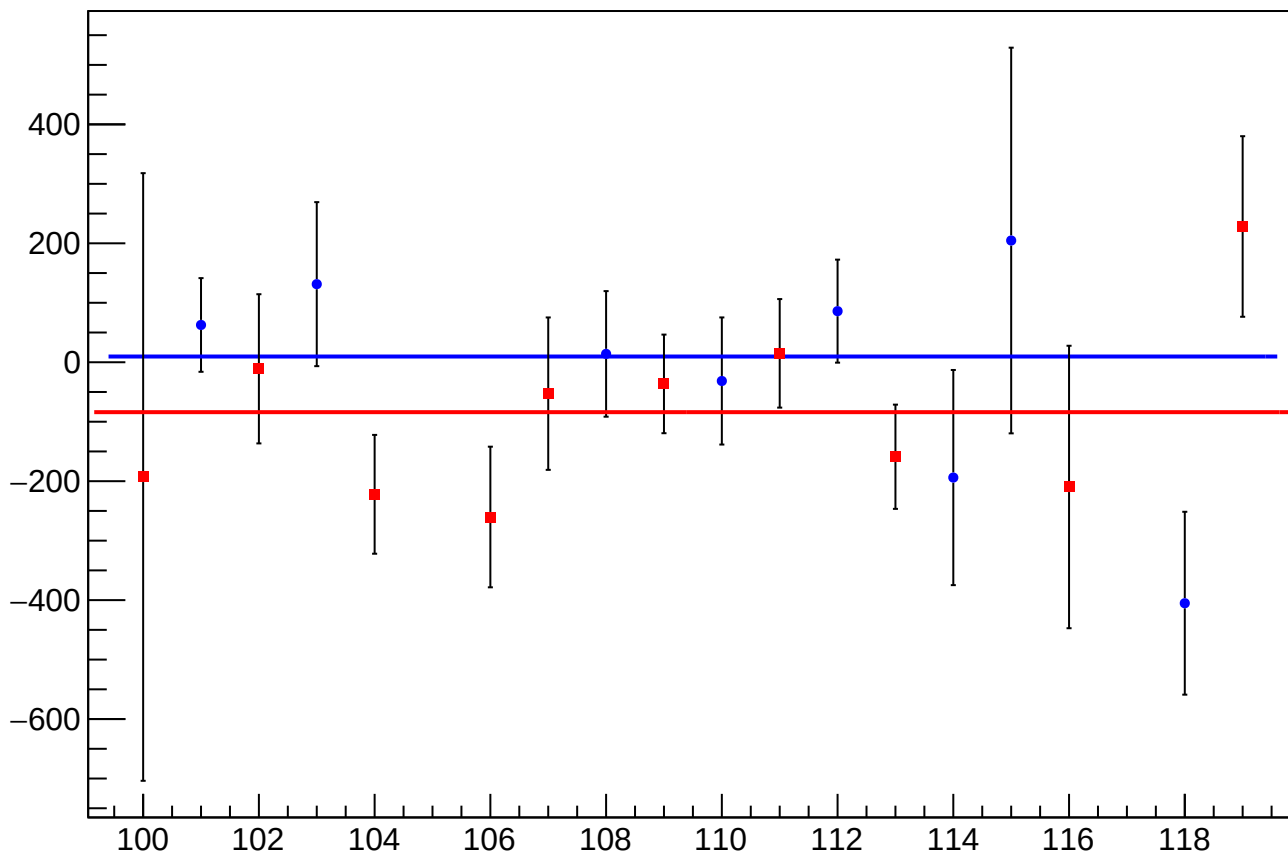
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 517.459 $\pm$ 0.141  $\chi^2$ /NDF: 1237538.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_sam\_1548\_avg\_mean vs Slug



Right In: 9.643+/-40.601  $\chi^2/\text{NDF}$ : 11.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -83.931+/-36.351  $\chi^2/\text{NDF}$ : 11.3/9

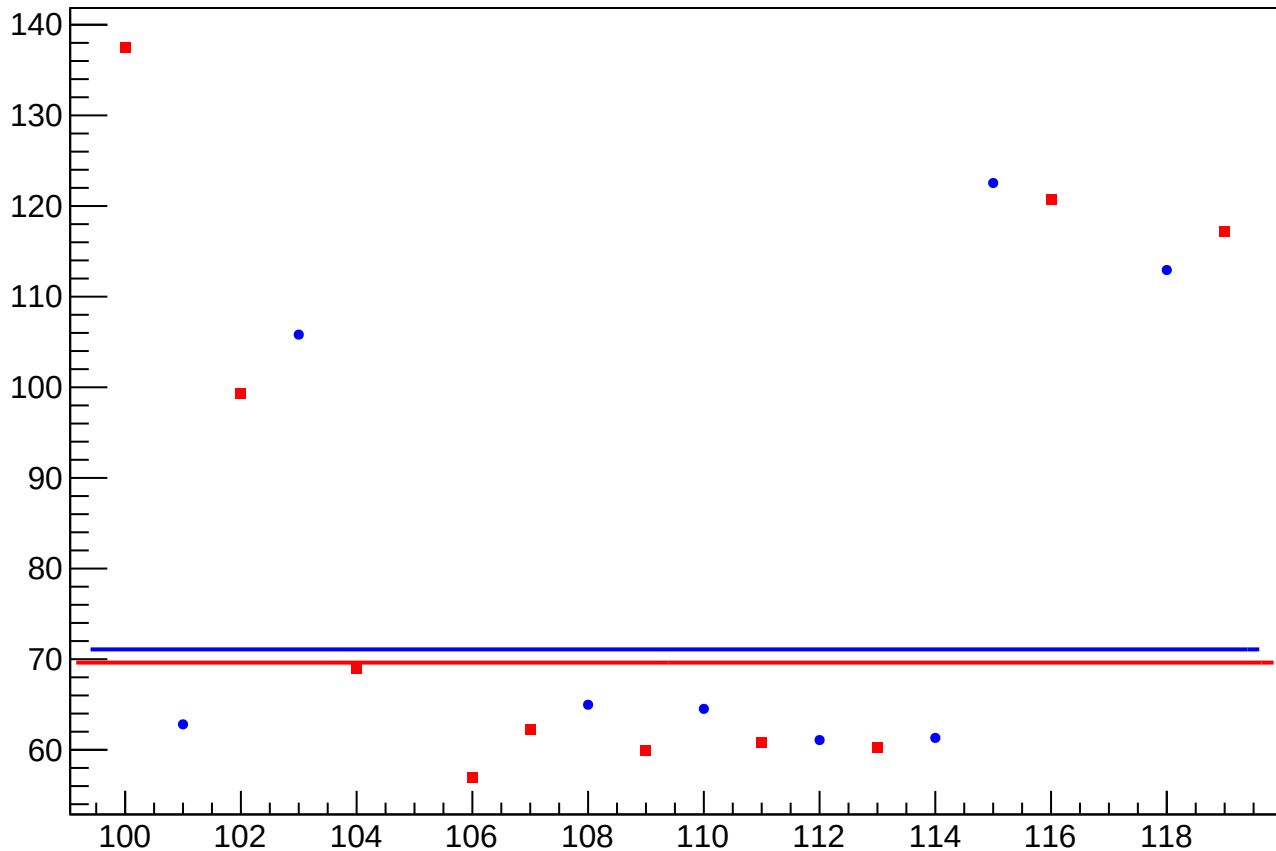
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -42.297+/-27.082  $\chi^2/\text{NDF}$ : 25.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 71.081+/-0.029  $\chi^2/\text{NDF}$ : 394169.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.625+/-0.026  $\chi^2/\text{NDF}$ : 534737.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

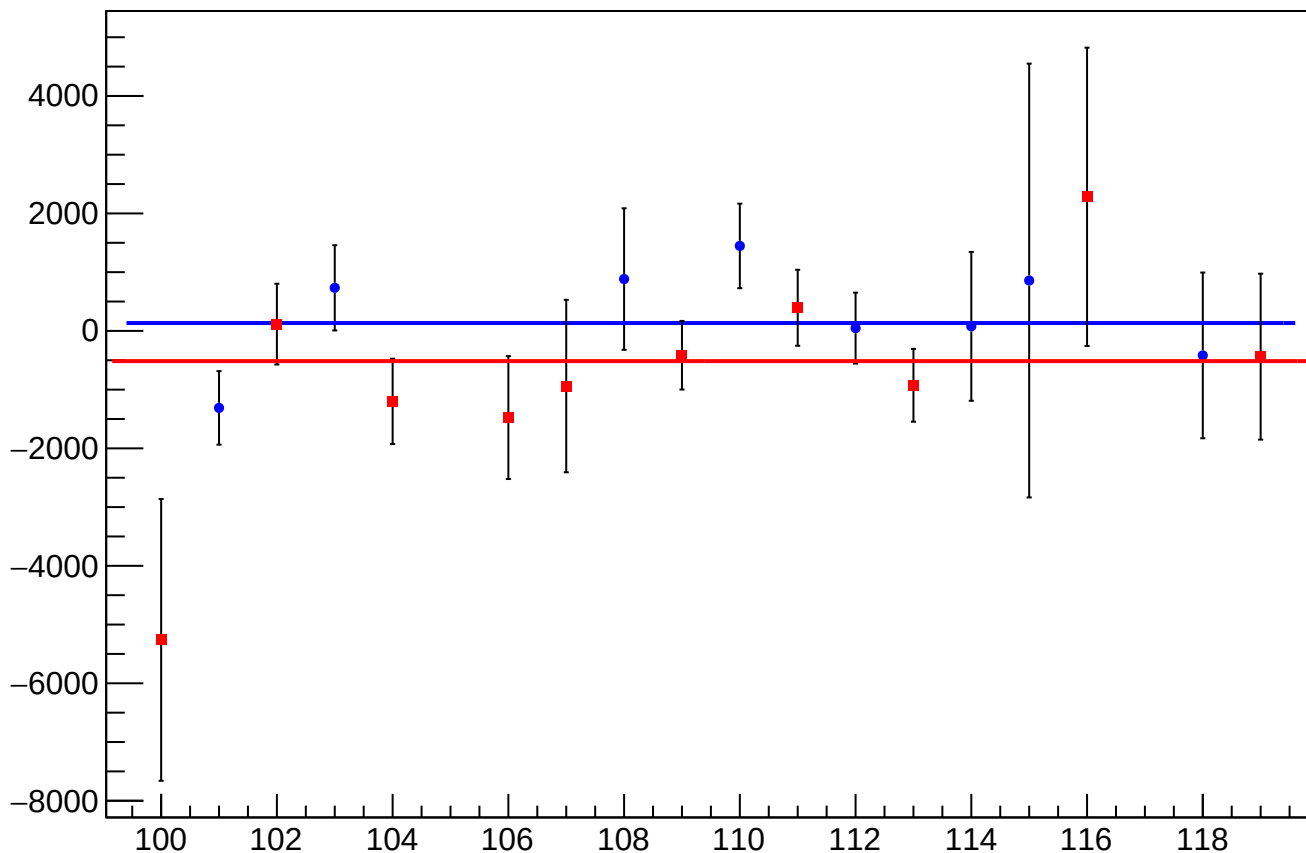
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.273+/-0.019  $\chi^2/\text{NDF}$ : 930333.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1548\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 134.159+/-301.340  $\chi^2/\text{NDF}$ : 9.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -514.545+/-265.871  $\chi^2/\text{NDF}$ : 10.2/9

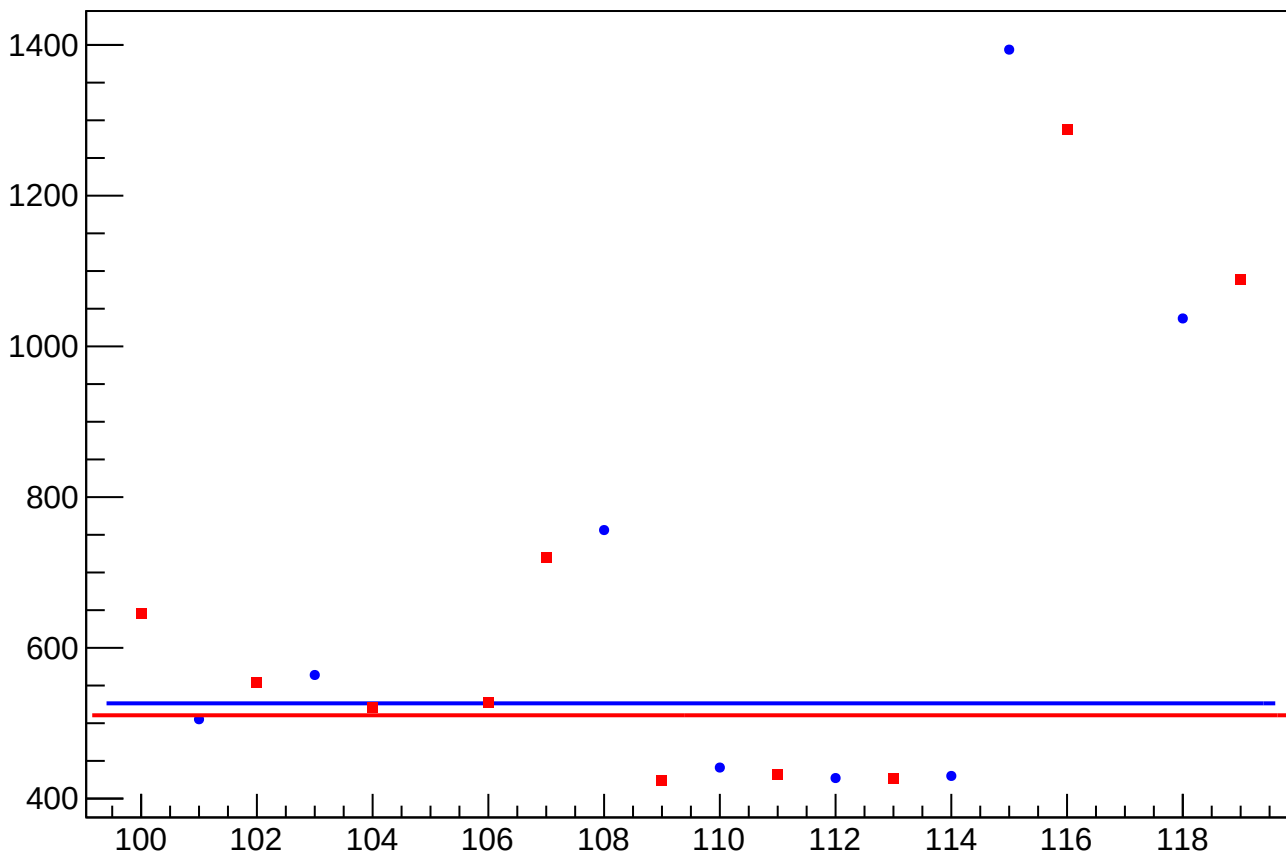
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -230.600+/-199.366  $\chi^2/\text{NDF}$ : 22.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 526.366+/-0.213  $\chi^2/\text{NDF}$ : 546343.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 510.525+/-0.188  $\chi^2/\text{NDF}$ : 688087.3/9

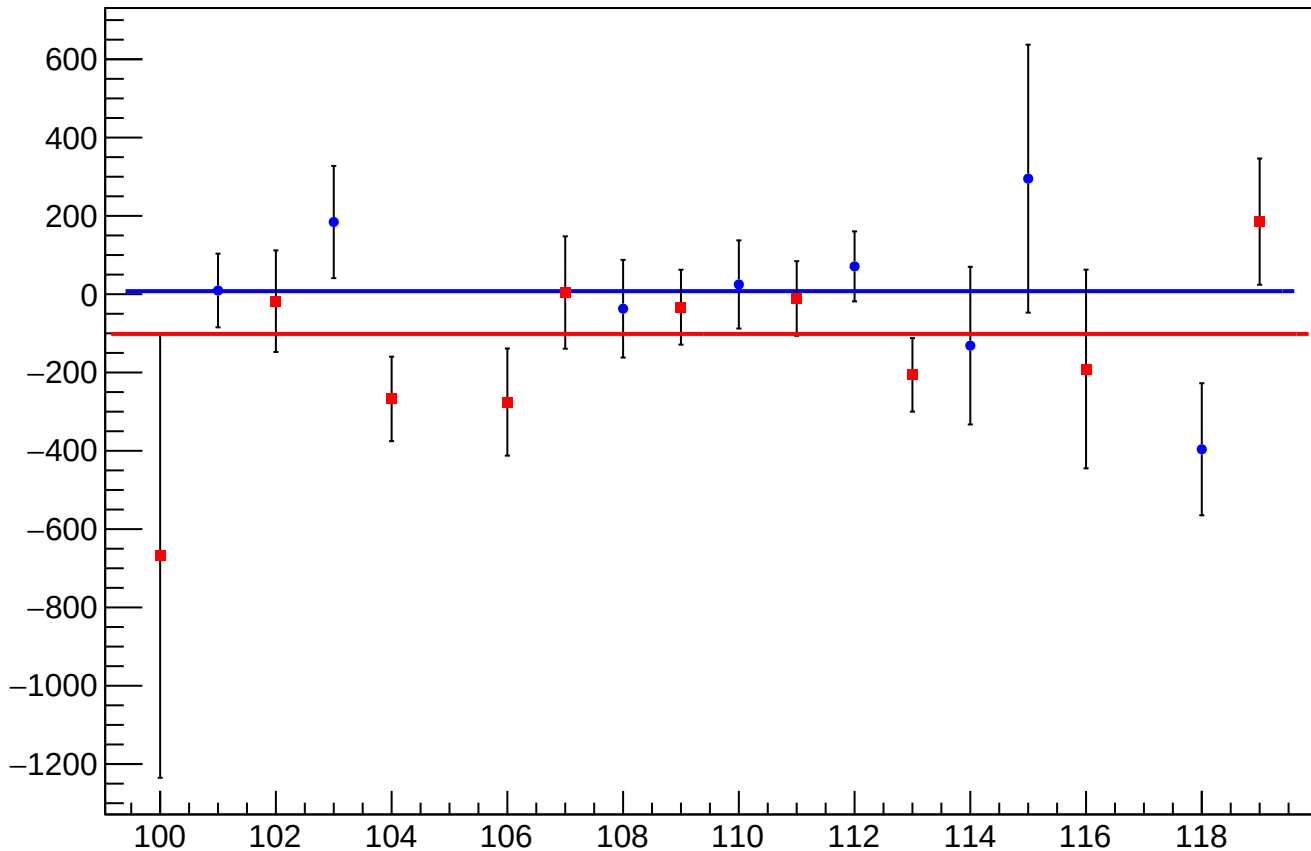
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 517.459+/-0.141  $\chi^2/\text{NDF}$ : 1237538.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_1548\_avg\_mean vs Slug



Right In:  $7.802 \pm 44.794$   $\chi^2/\text{NDF}$ : 9.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-101.437 \pm 39.606$   $\chi^2/\text{NDF}$ : 11.9/9

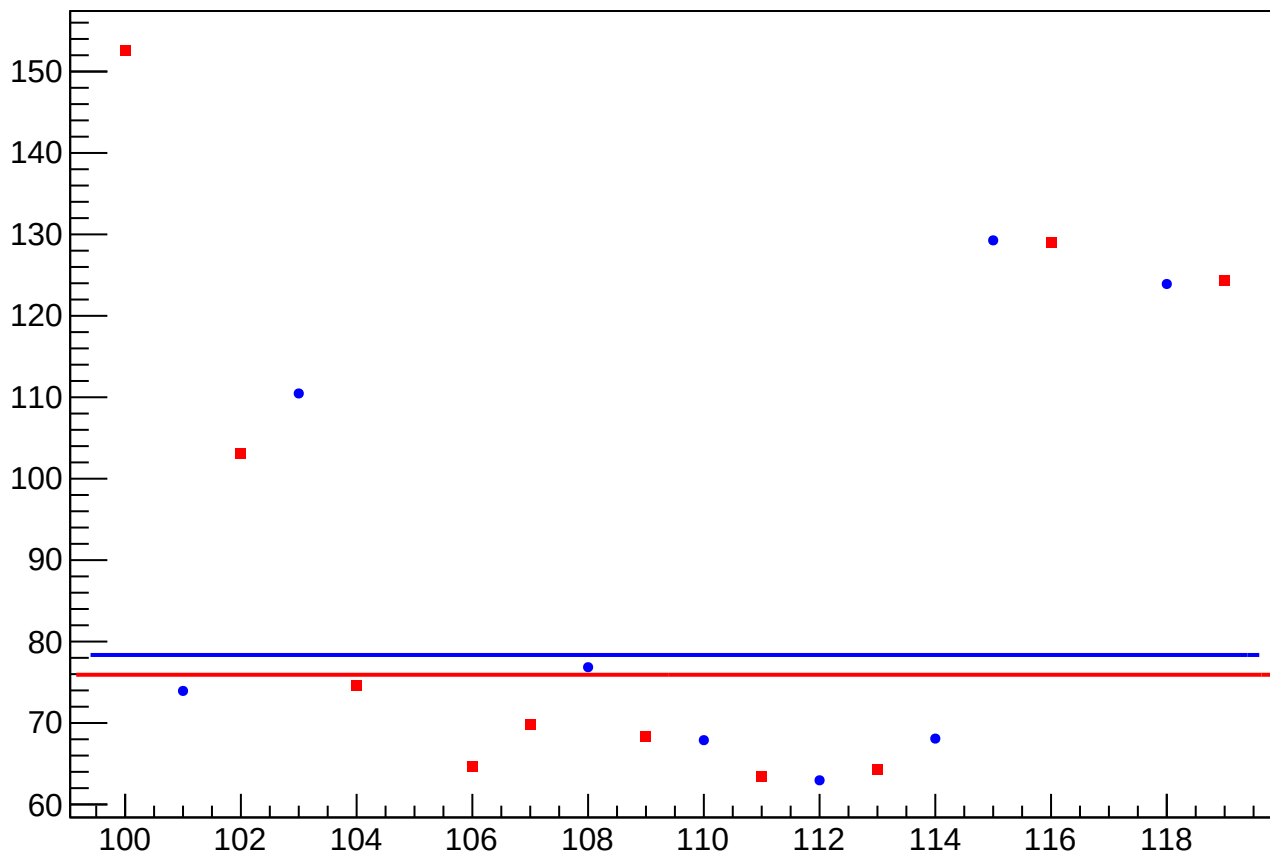
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-53.507 \pm 29.671$   $\chi^2/\text{NDF}$ : 24.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 78.353+/-0.032  $\chi^2/\text{NDF}$ : 377166.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 75.925+/-0.028  $\chi^2/\text{NDF}$ : 486815.0/9

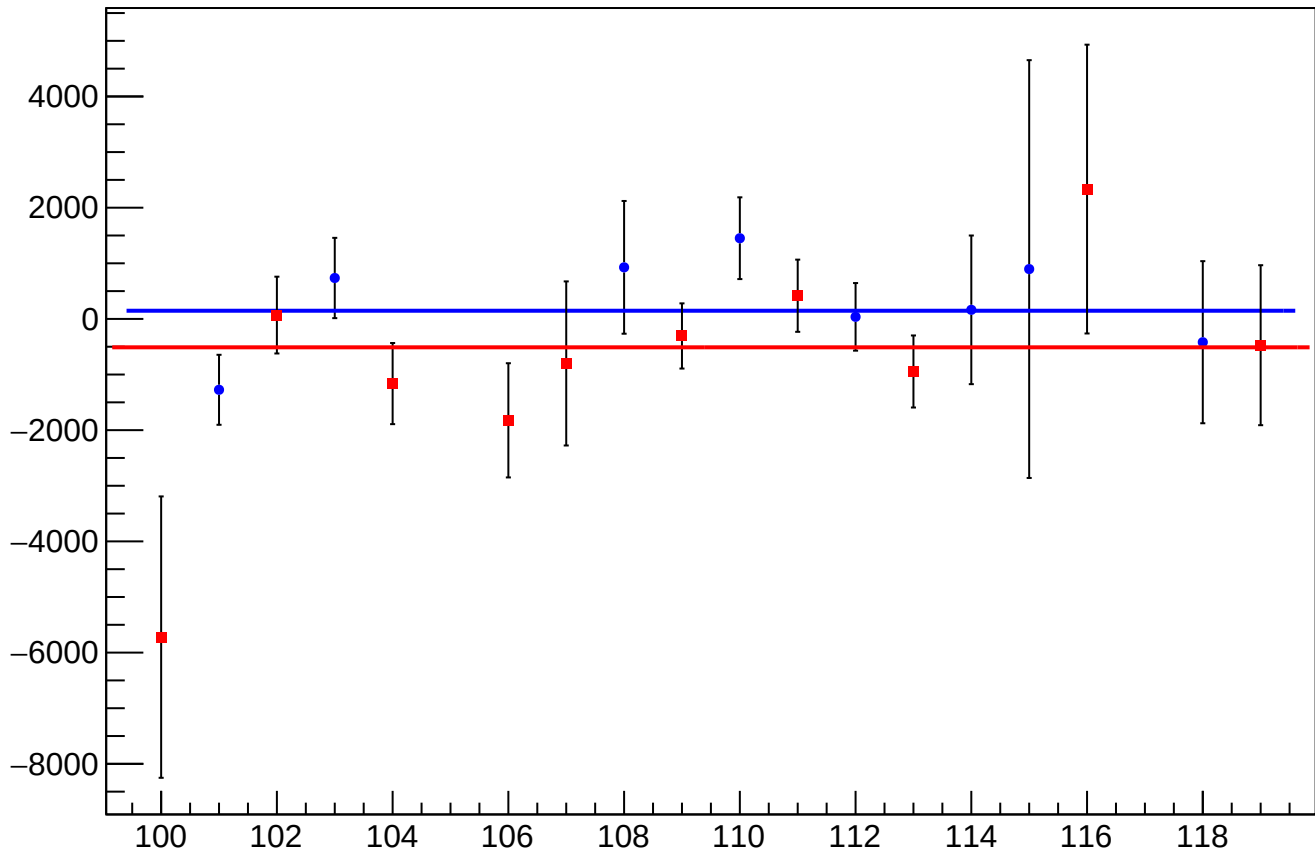
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 76.990+/-0.021  $\chi^2/\text{NDF}$ : 867280.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_dit\_correction\_mean vs Slug



Right In: 147.154 $\pm$ 304.196  $\chi^2$ /NDF: 9.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -510.563 $\pm$ 268.787  $\chi^2$ /NDF: 11.2/9

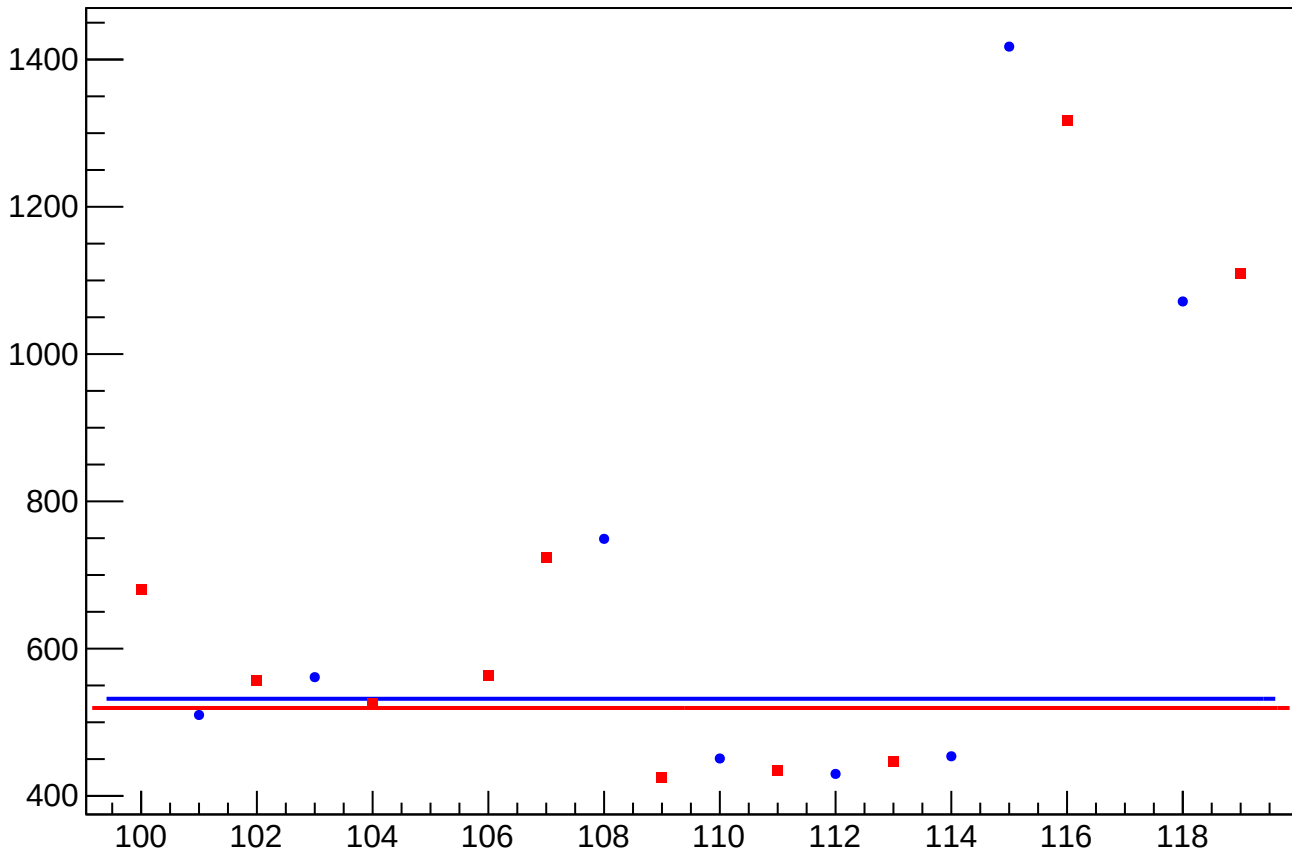
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -222.196 $\pm$ 201.422  $\chi^2$ /NDF: 23.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_dit\_correction\_rms vs Slug



Right In: 531.919+/-0.215  $\chi^2/\text{NDF}$ : 544812.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 519.419+/-0.190  $\chi^2/\text{NDF}$ : 692520.7/9

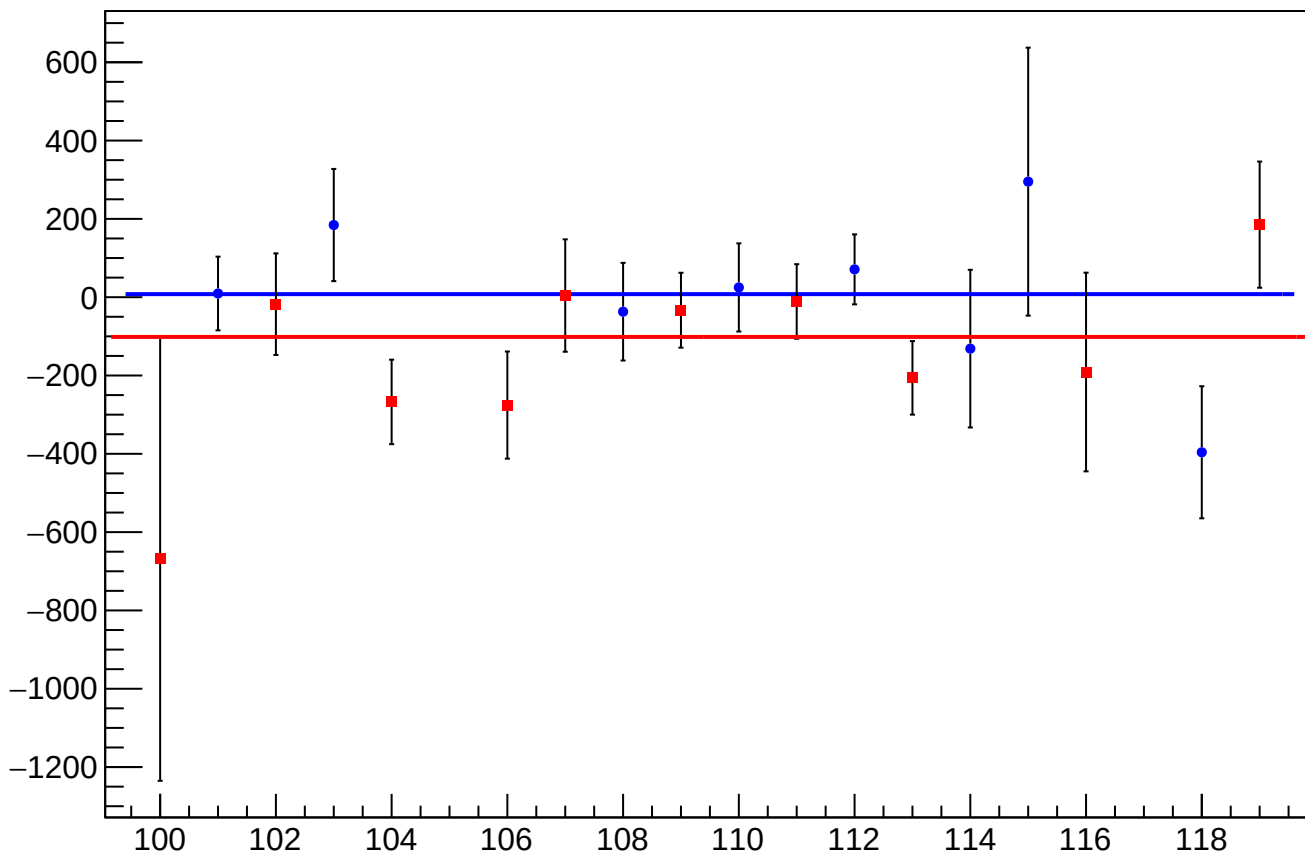
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 524.899+/-0.142  $\chi^2/\text{NDF}$ : 1239229.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_1548\_avg\_mean vs Slug



Right In:  $7.802 \pm 44.794$   $\chi^2/\text{NDF}: 9.1/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-101.437 \pm 39.606$   $\chi^2/\text{NDF}: 11.9/9$

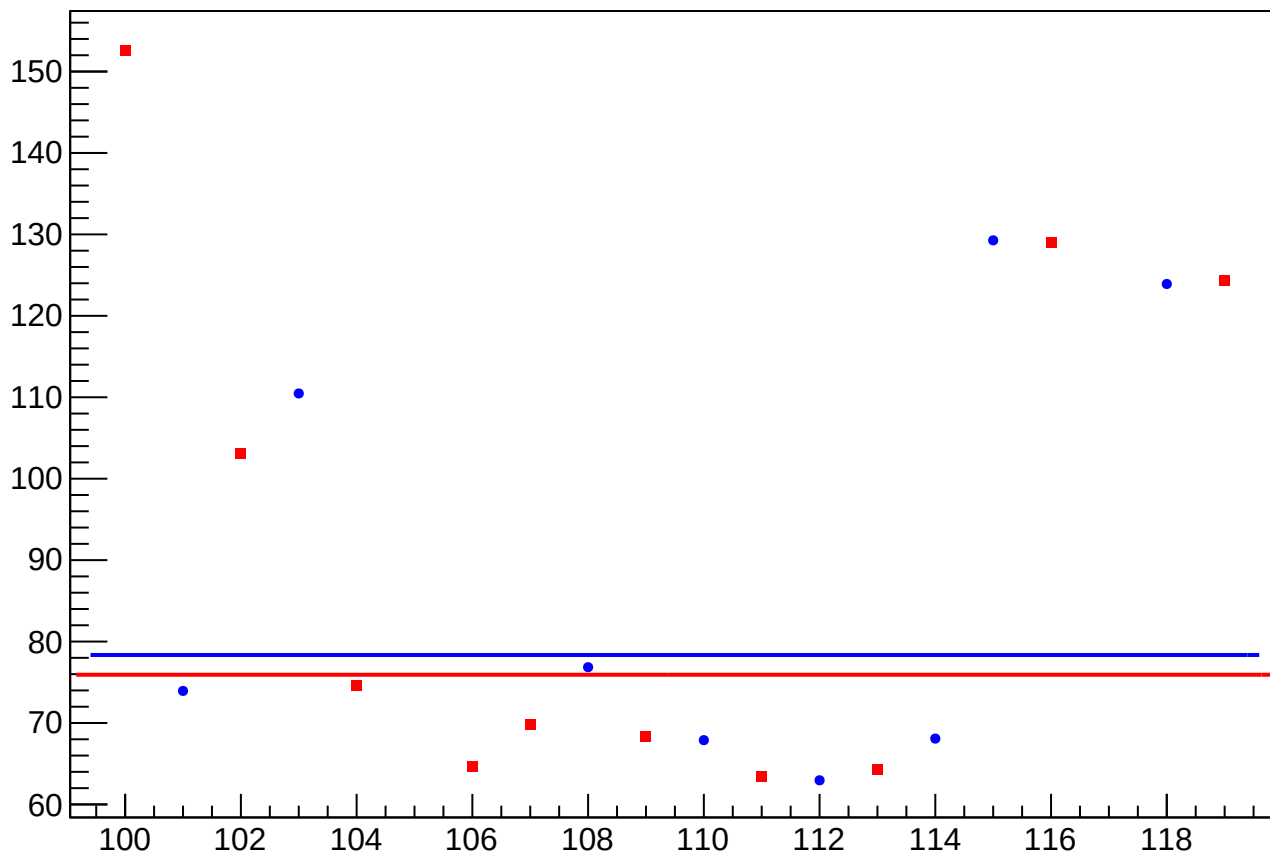
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-53.507 \pm 29.671$   $\chi^2/\text{NDF}: 24.3/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

eigen\_dit\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 78.353+/-0.032  $\chi^2/\text{NDF}$ : 377168.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 75.925+/-0.028  $\chi^2/\text{NDF}$ : 486817.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

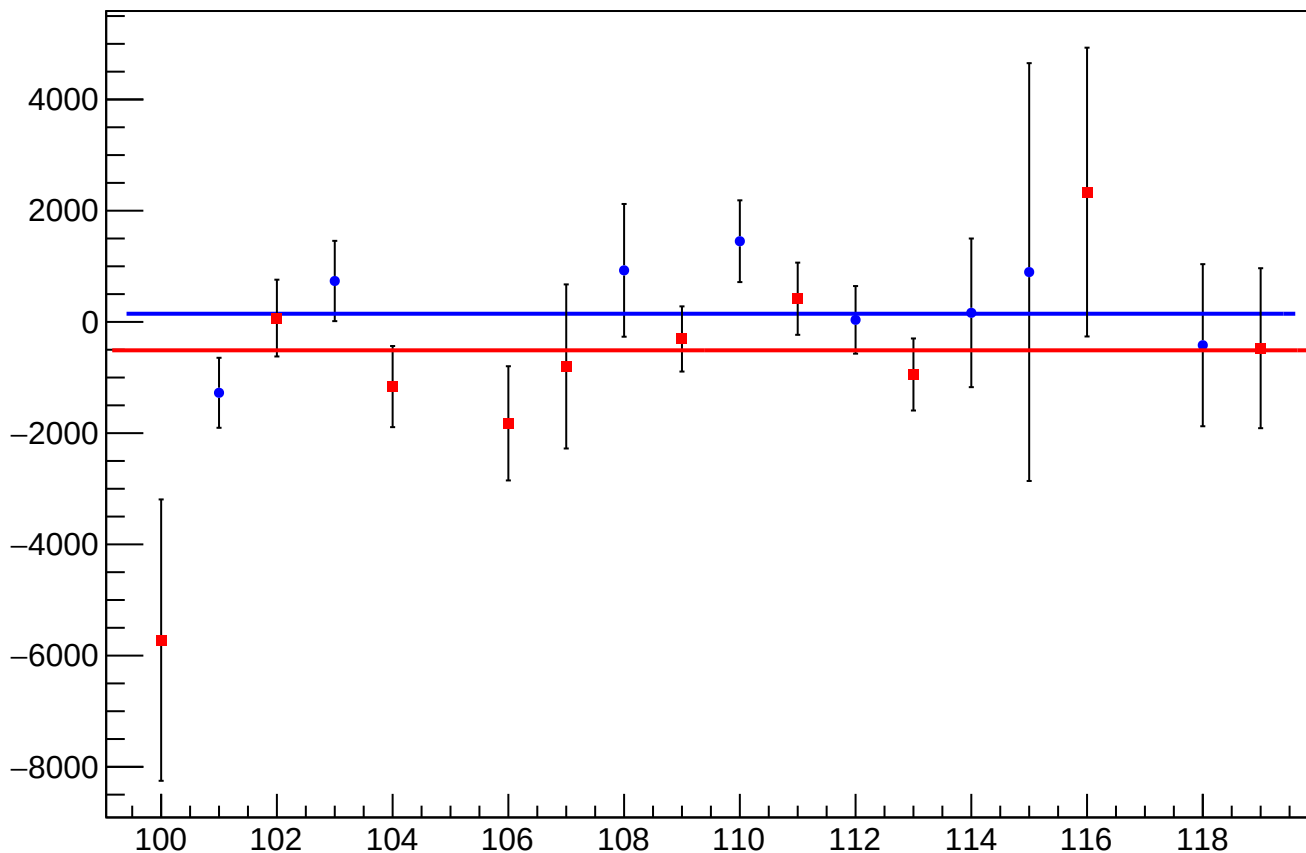
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 76.990+/-0.021  $\chi^2/\text{NDF}$ : 867285.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1548\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 147.153+/-304.196  $\chi^2/\text{NDF}$ : 9.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -510.562+/-268.786  $\chi^2/\text{NDF}$ : 11.2/9

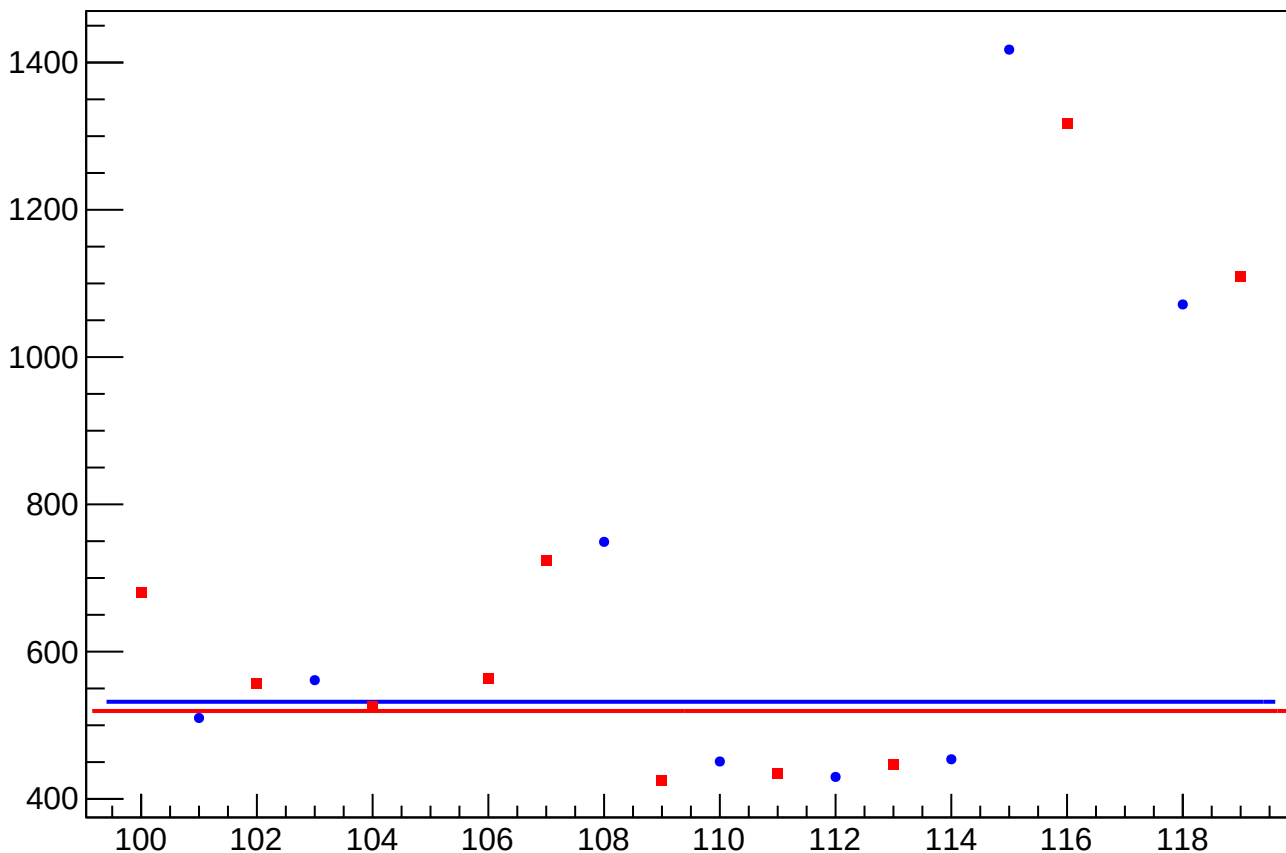
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -222.195+/-201.422  $\chi^2/\text{NDF}$ : 23.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 531.918+/-0.215  $\chi^2/\text{NDF}$ : 544814.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 519.418+/-0.190  $\chi^2/\text{NDF}$ : 692523.5/9

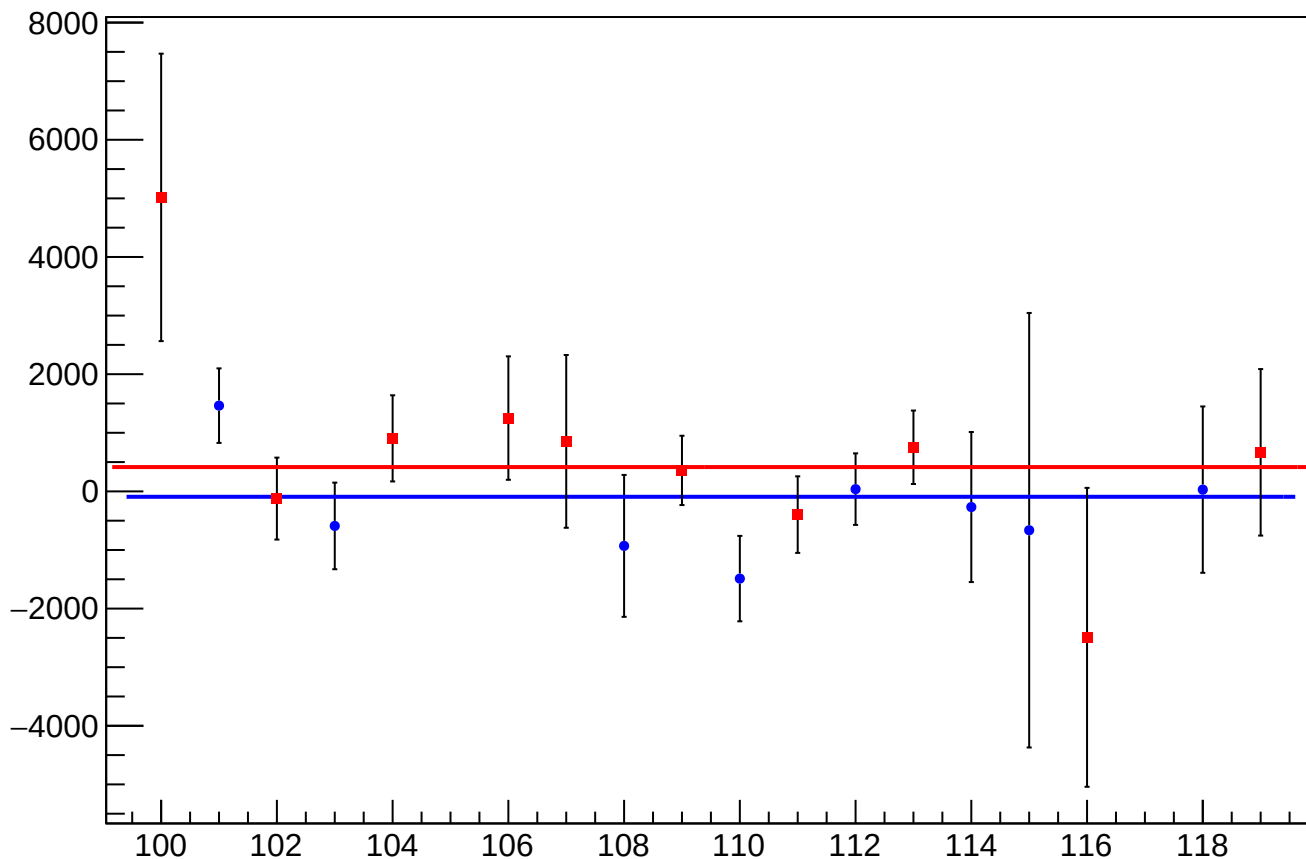
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 524.899+/-0.142  $\chi^2/\text{NDF}$ : 1239234.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1548\_avg\_mean vs Slug



Right In: -92.181+/-305.224  $\chi^2/\text{NDF}$ : 10.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 415.028+/-268.968  $\chi^2/\text{NDF}$ : 8.4/9

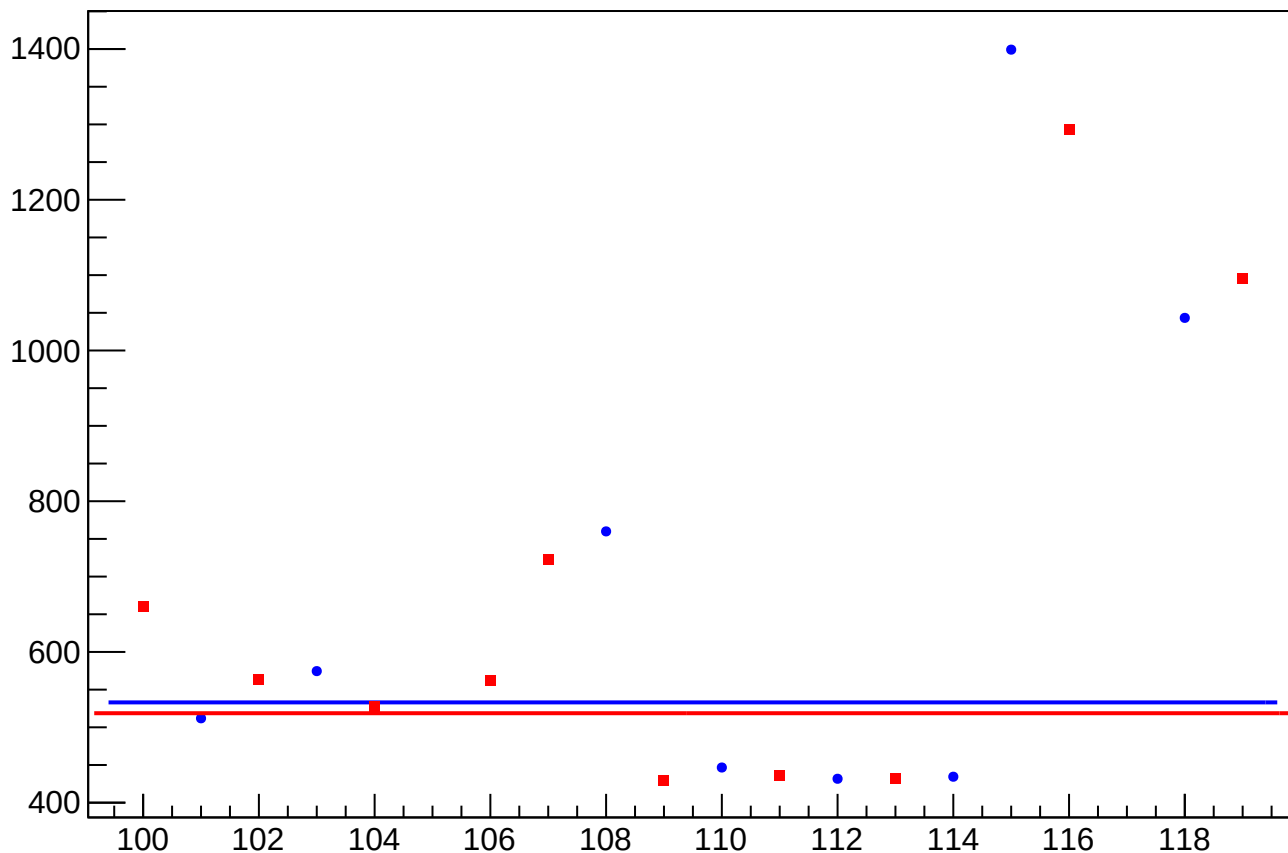
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 193.323+/-201.797  $\chi^2/\text{NDF}$ : 20.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1548\_avg\_rms vs Slug



Right In: 533.059+/-0.216  $\chi^2/\text{NDF}$ : 541503.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 518.702+/-0.190  $\chi^2/\text{NDF}$ : 686378.1/9

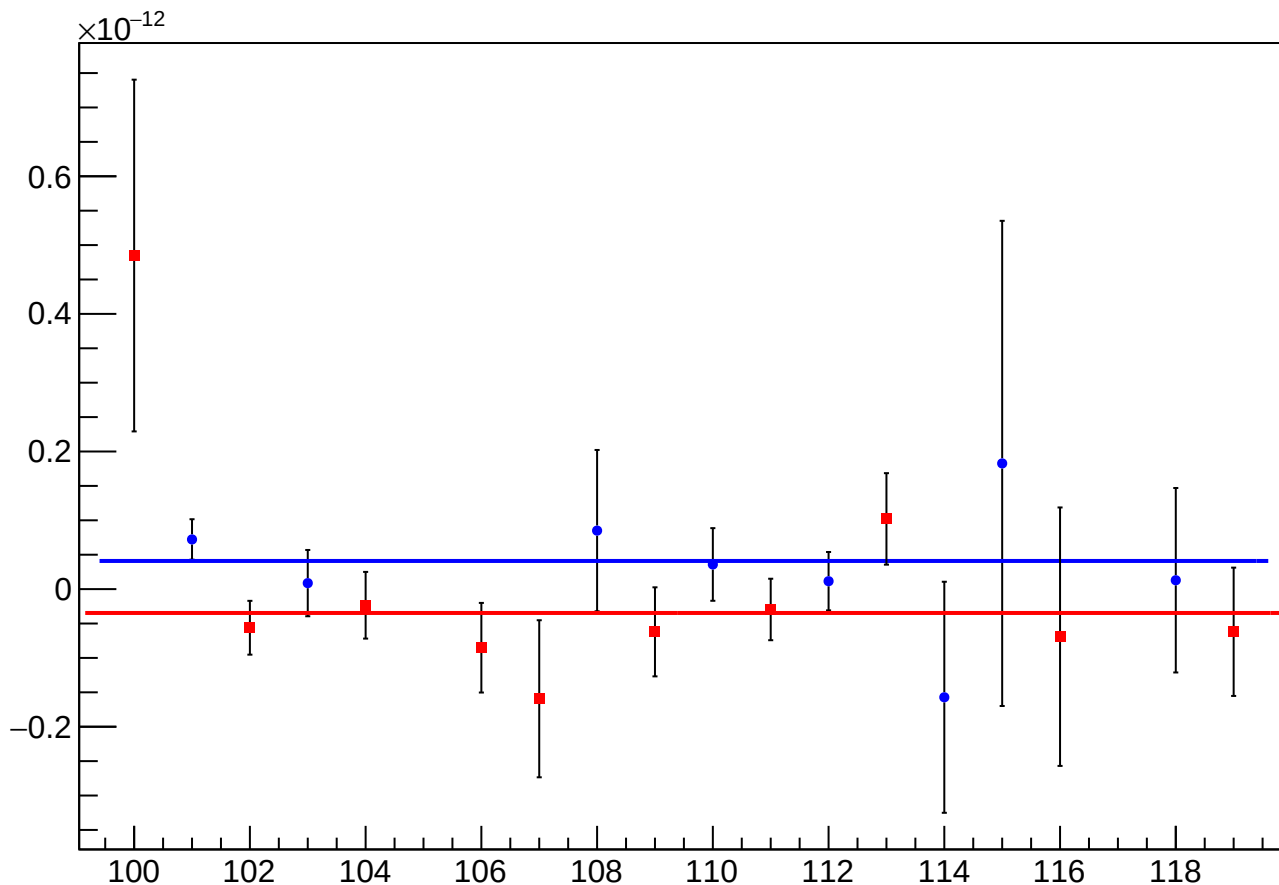
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 524.978+/-0.143  $\chi^2/\text{NDF}$ : 1230372.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1548\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.8/9

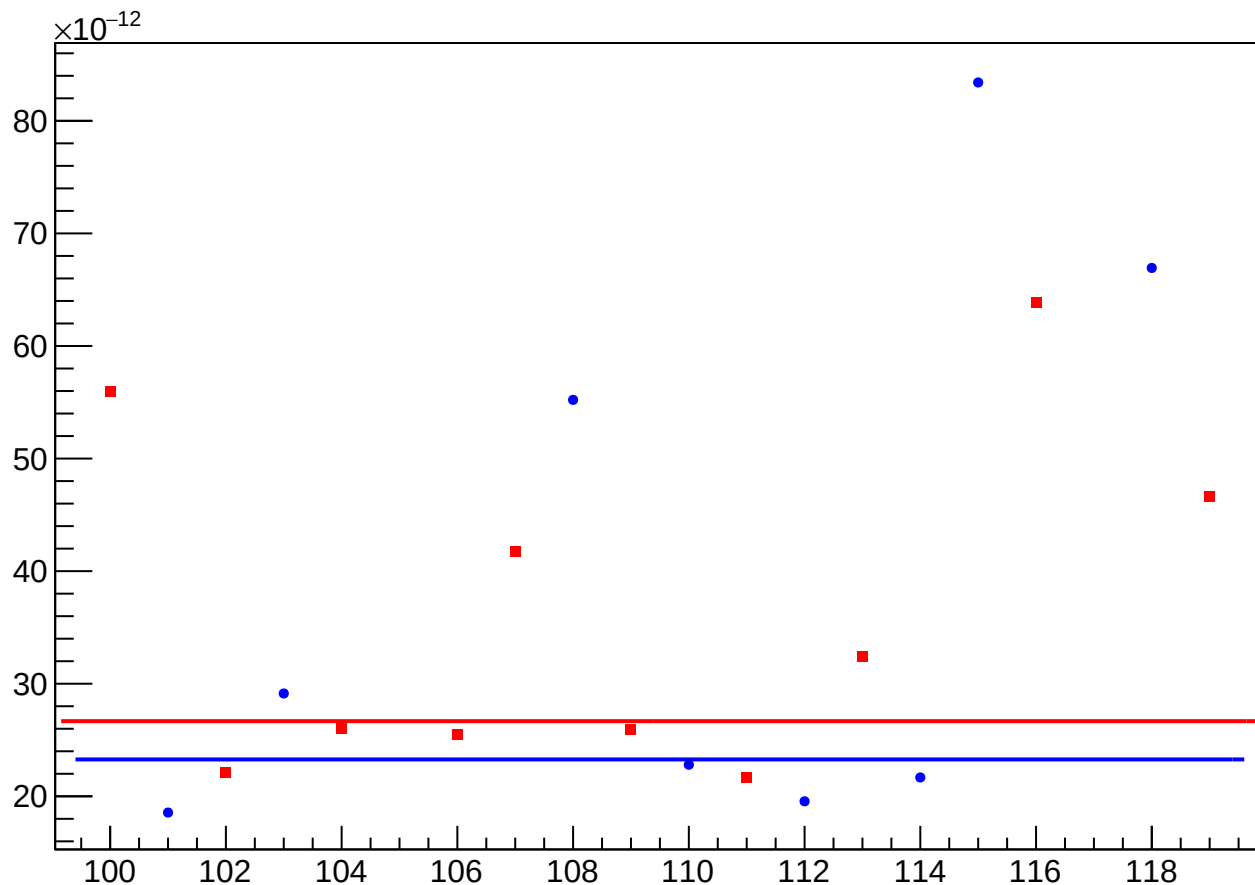
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 22.0/17

- 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  $\chi^2/\text{NDF}$ : 515790.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 299909.1/9

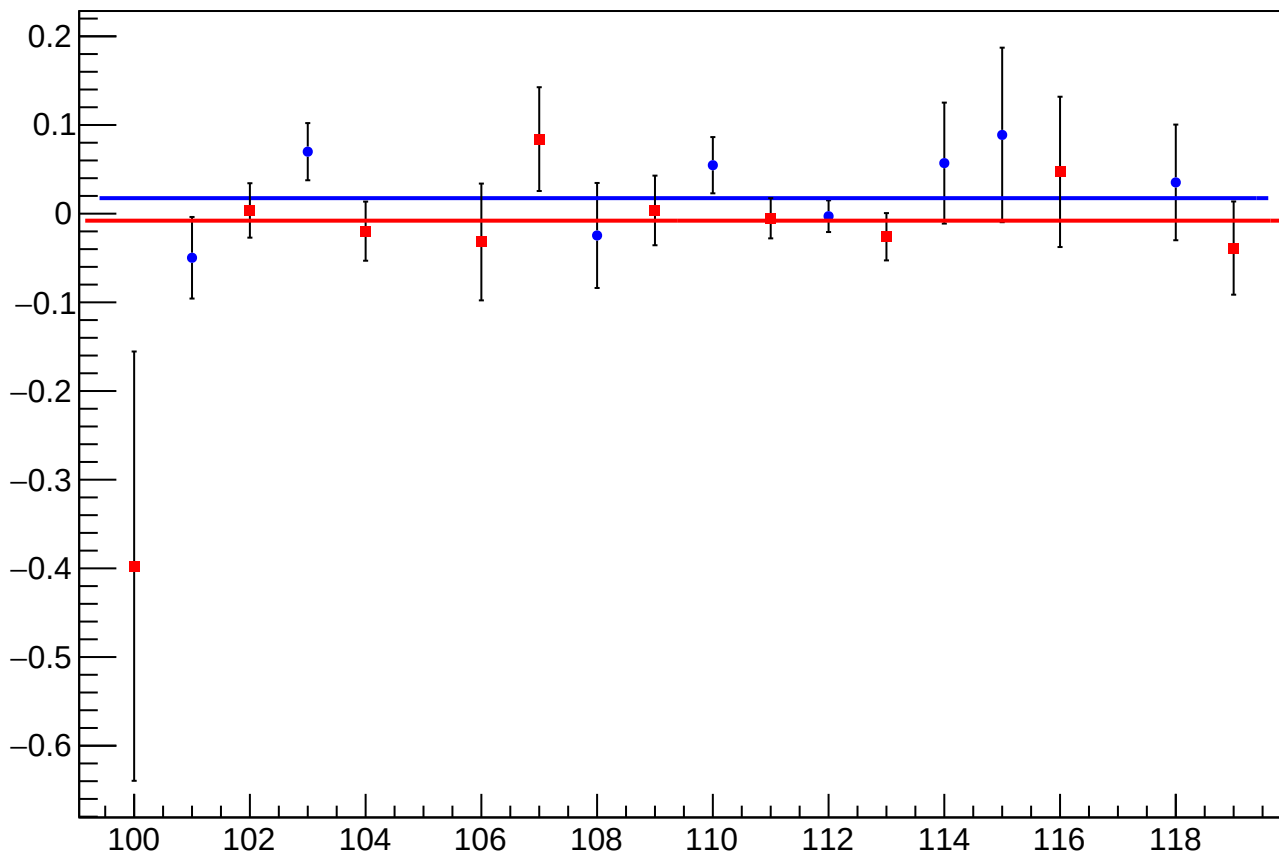
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 845701.1/17

- 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: 0.017 $\pm$ 0.013  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.008 $\pm$ 0.012  $\chi^2$ /NDF: 6.8/9

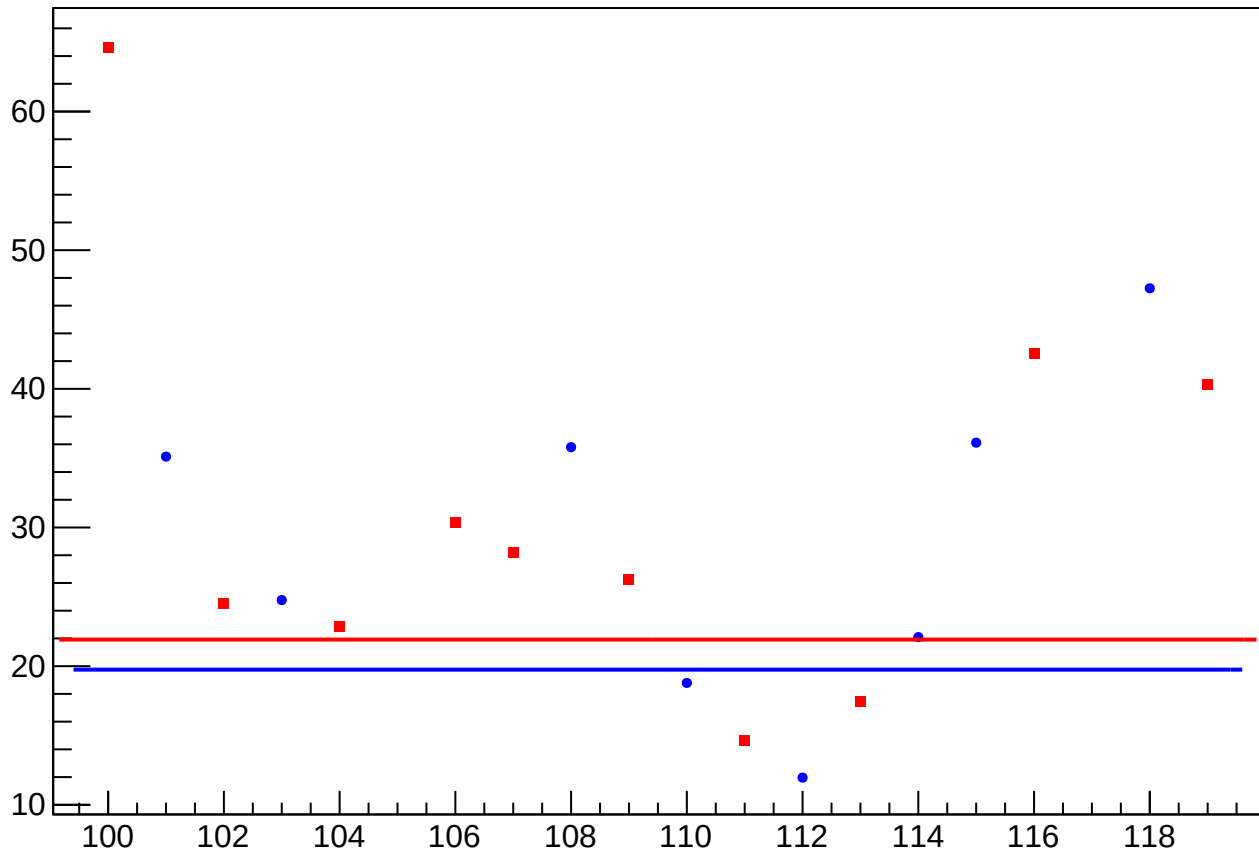
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.009  $\chi^2$ /NDF: 17.8/17

- 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: 19.750+/-0.009  $\chi^2/\text{NDF}$ : 1212964.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.917+/-0.008  $\chi^2/\text{NDF}$ : 785320.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

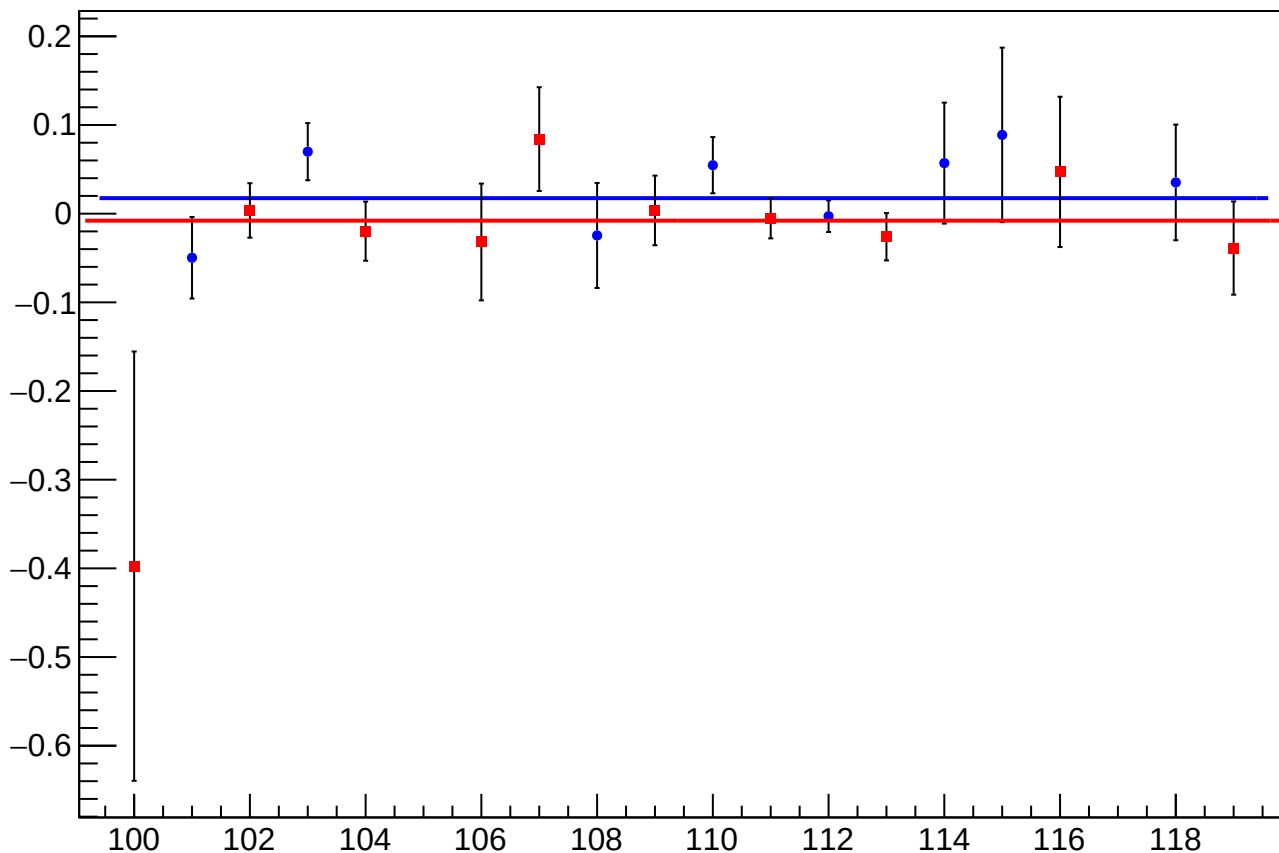
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.882+/-0.006  $\chi^2/\text{NDF}$ : 2029689.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1548\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.017 $\pm$ 0.013  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.008 $\pm$ 0.012  $\chi^2$ /NDF: 6.8/9

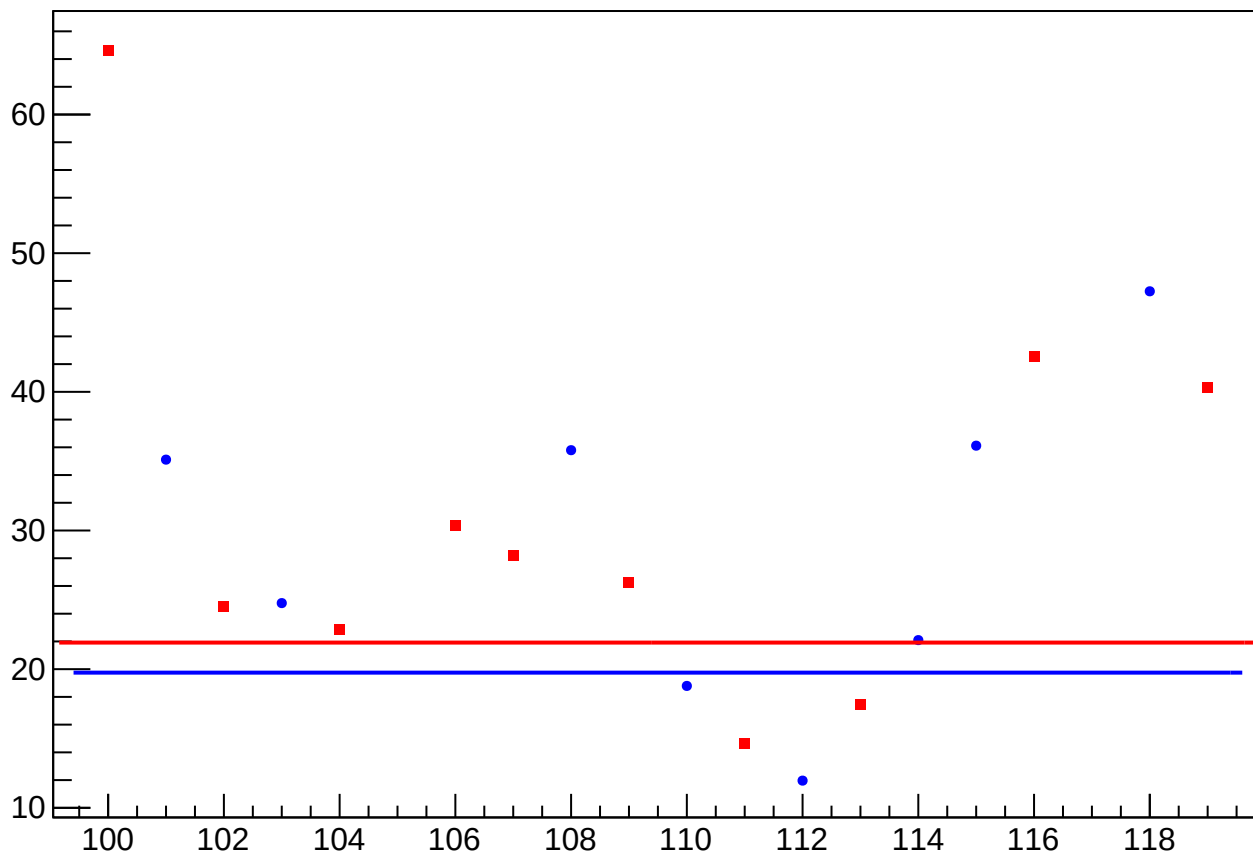
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.009  $\chi^2$ /NDF: 17.8/17

- 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: 19.750+/-0.009  $\chi^2/\text{NDF}$ : 1212964.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.917+/-0.008  $\chi^2/\text{NDF}$ : 785320.4/9

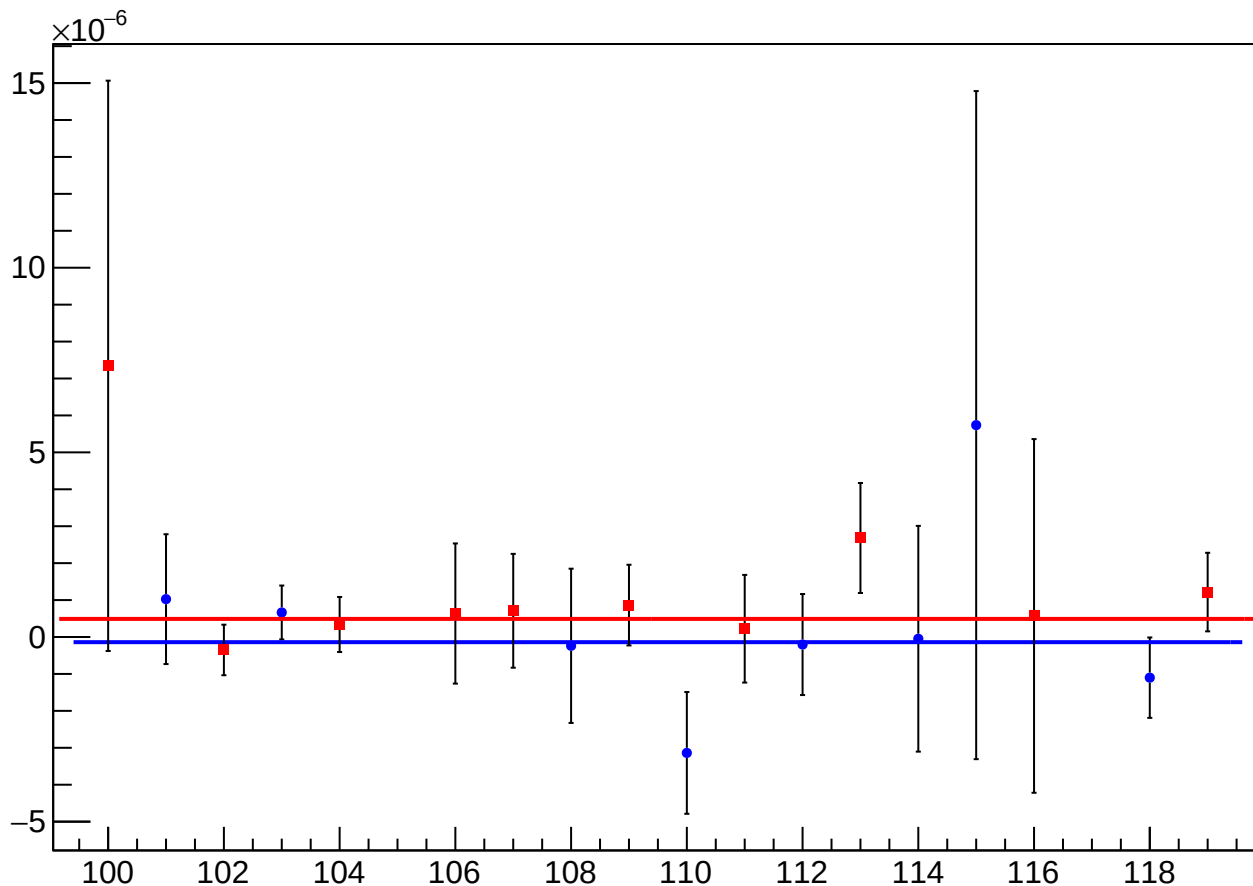
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.882+/-0.006  $\chi^2/\text{NDF}$ : 2029689.6/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.1/9

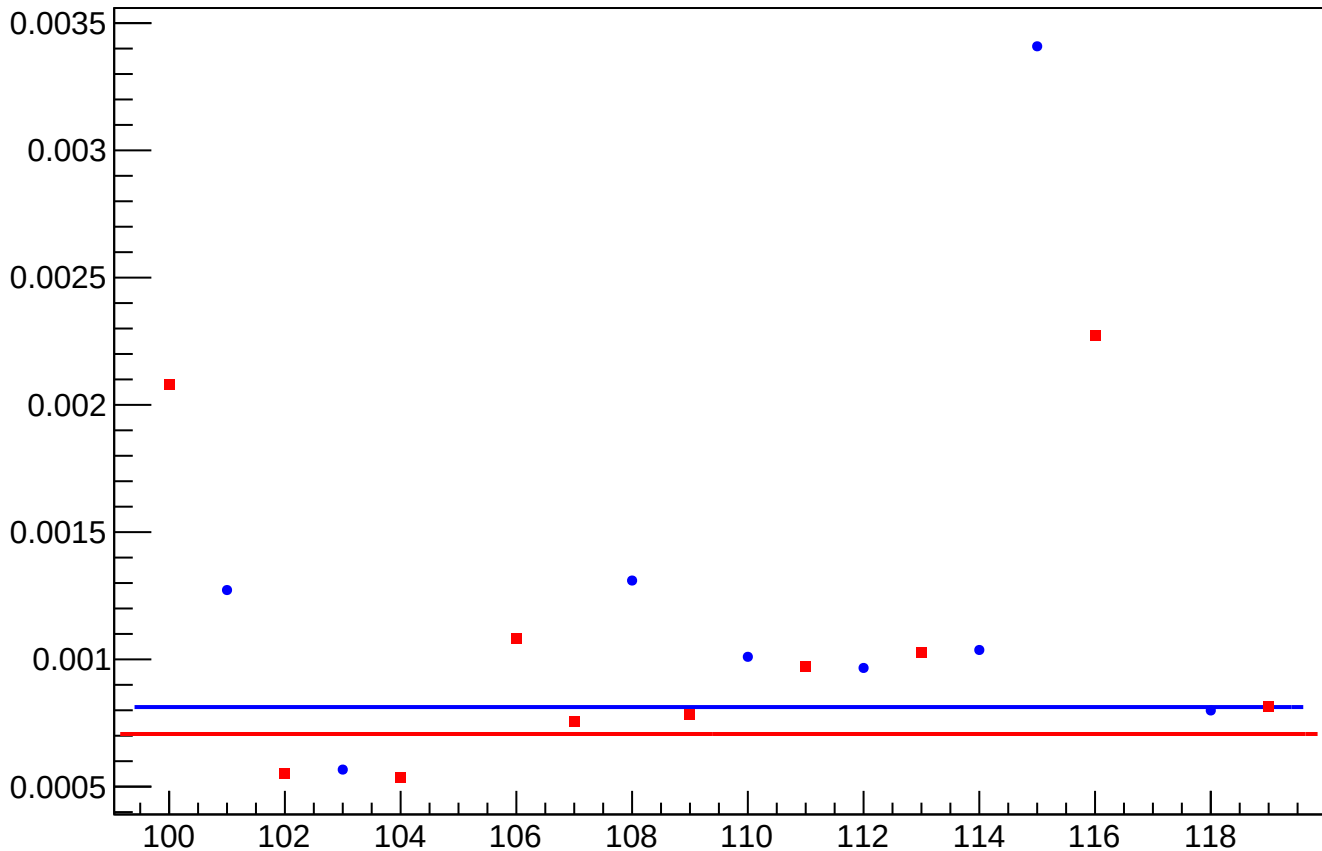
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 706987.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 756063.5/9

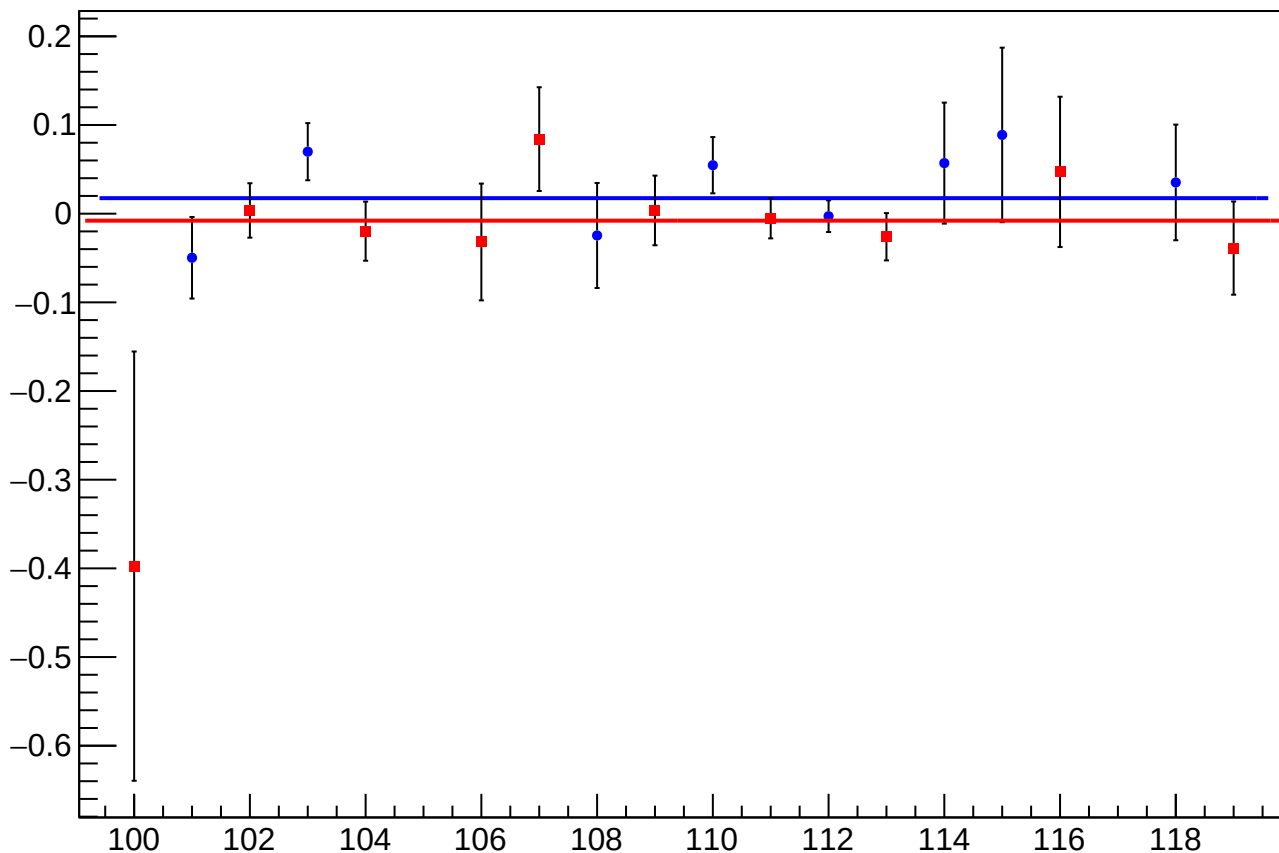
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1523778.9/17

- 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: 0.017 $\pm$ 0.013  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.008 $\pm$ 0.012  $\chi^2$ /NDF: 6.8/9

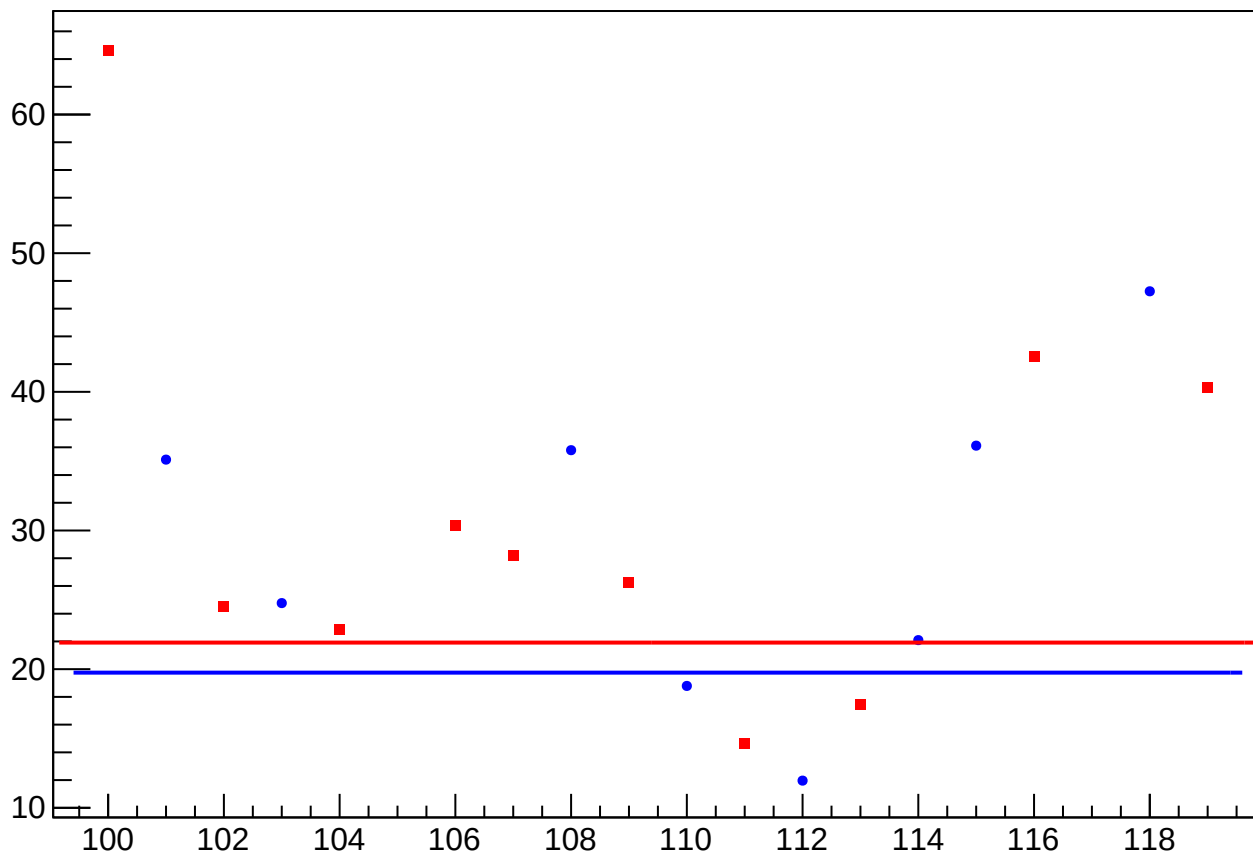
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.009  $\chi^2$ /NDF: 17.8/17

- 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: 19.749 $\pm$ 0.009  $\chi^2$ /NDF: 1213058.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.917 $\pm$ 0.008  $\chi^2$ /NDF: 785403.6/9

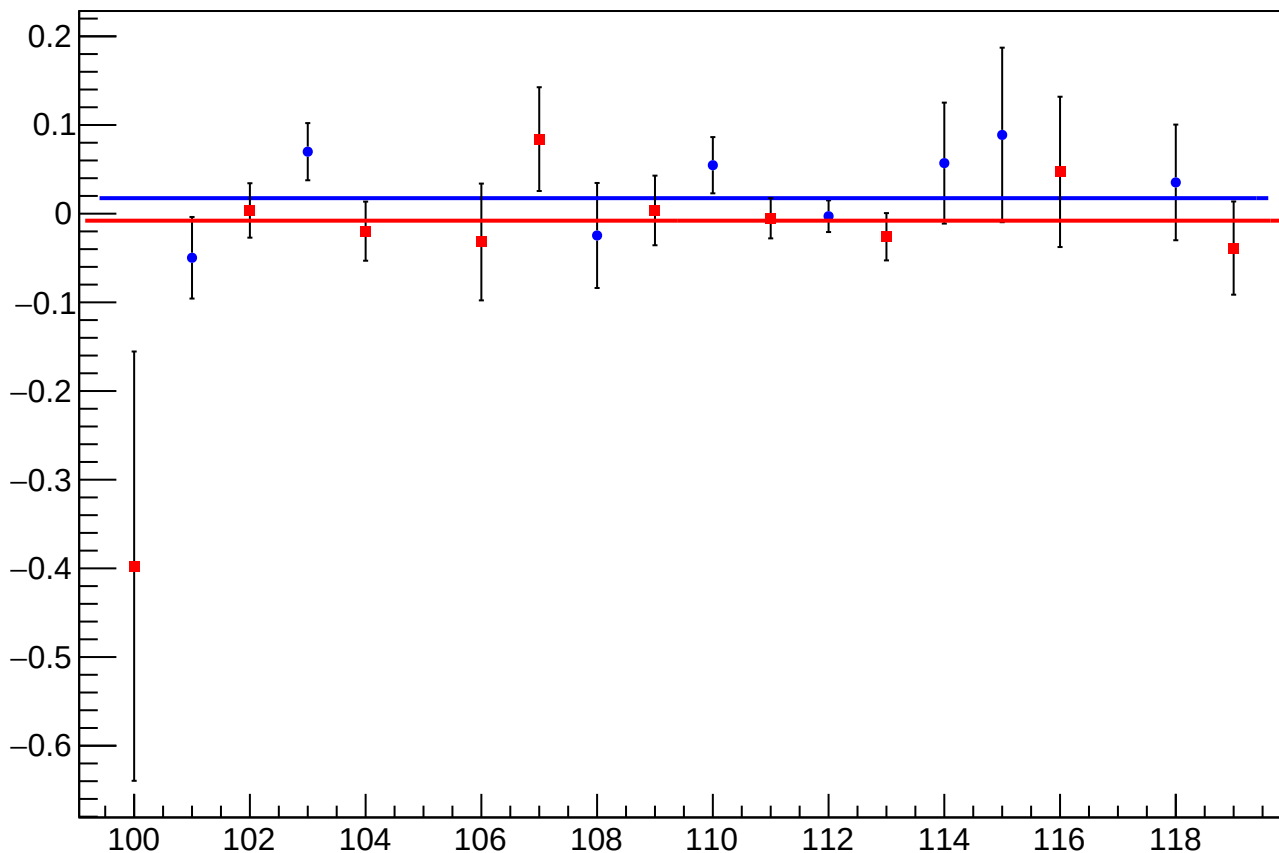
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 20.882 $\pm$ 0.006  $\chi^2$ /NDF: 2029872.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.017 $\pm$ 0.013  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.008 $\pm$ 0.012  $\chi^2$ /NDF: 6.8/9

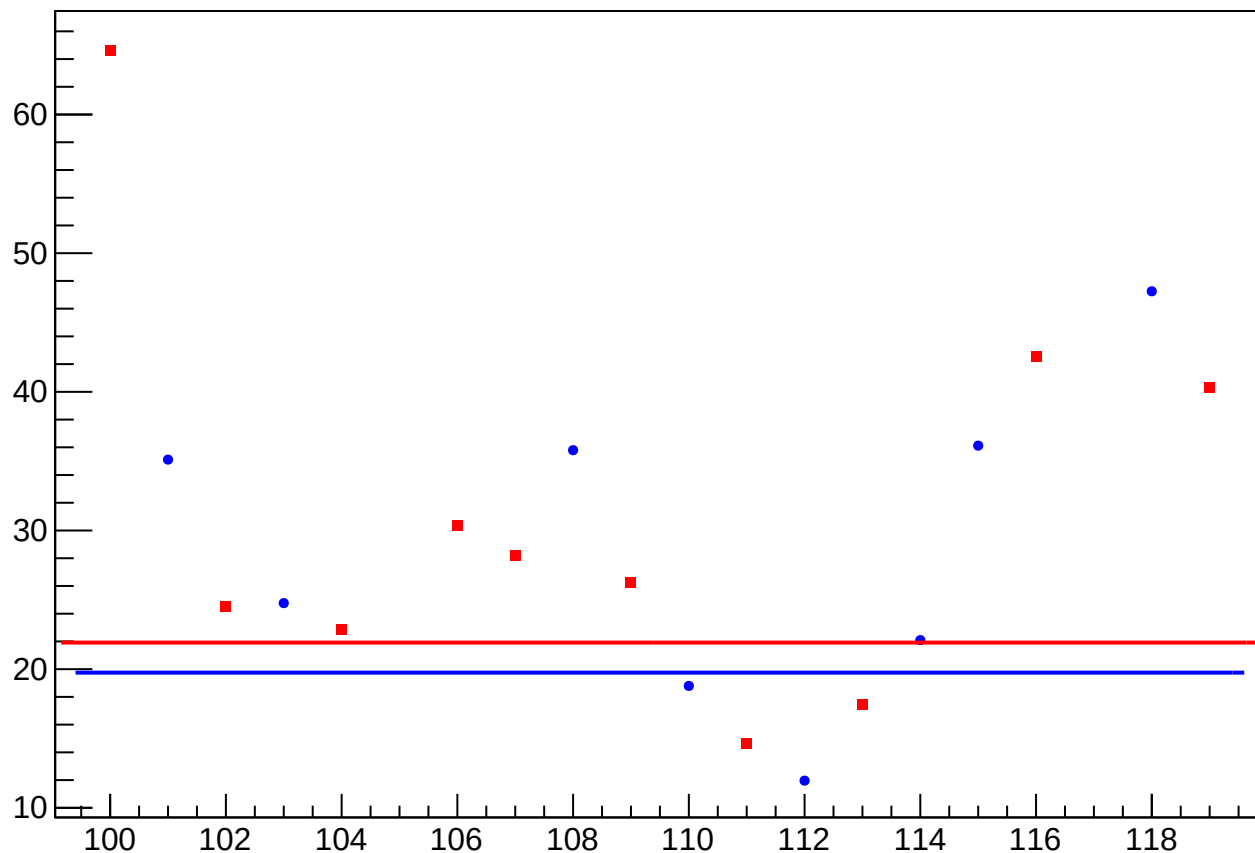
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.009  $\chi^2$ /NDF: 17.8/17

- 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: 19.749 $\pm$ 0.009  $\chi^2$ /NDF: 1213058.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 21.917 $\pm$ 0.008  $\chi^2$ /NDF: 785403.6/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

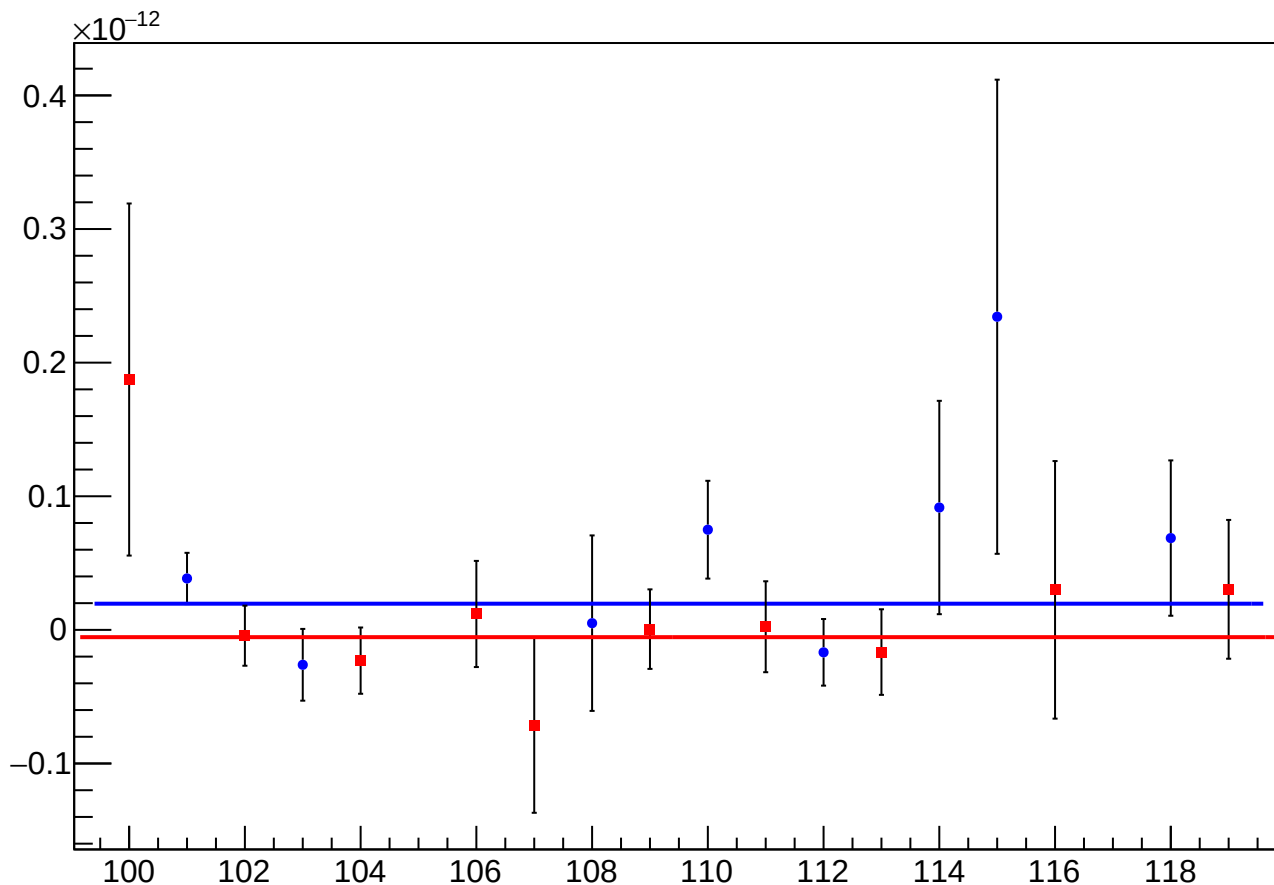
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 20.882 $\pm$ 0.006  $\chi^2$ /NDF: 2029872.2/17

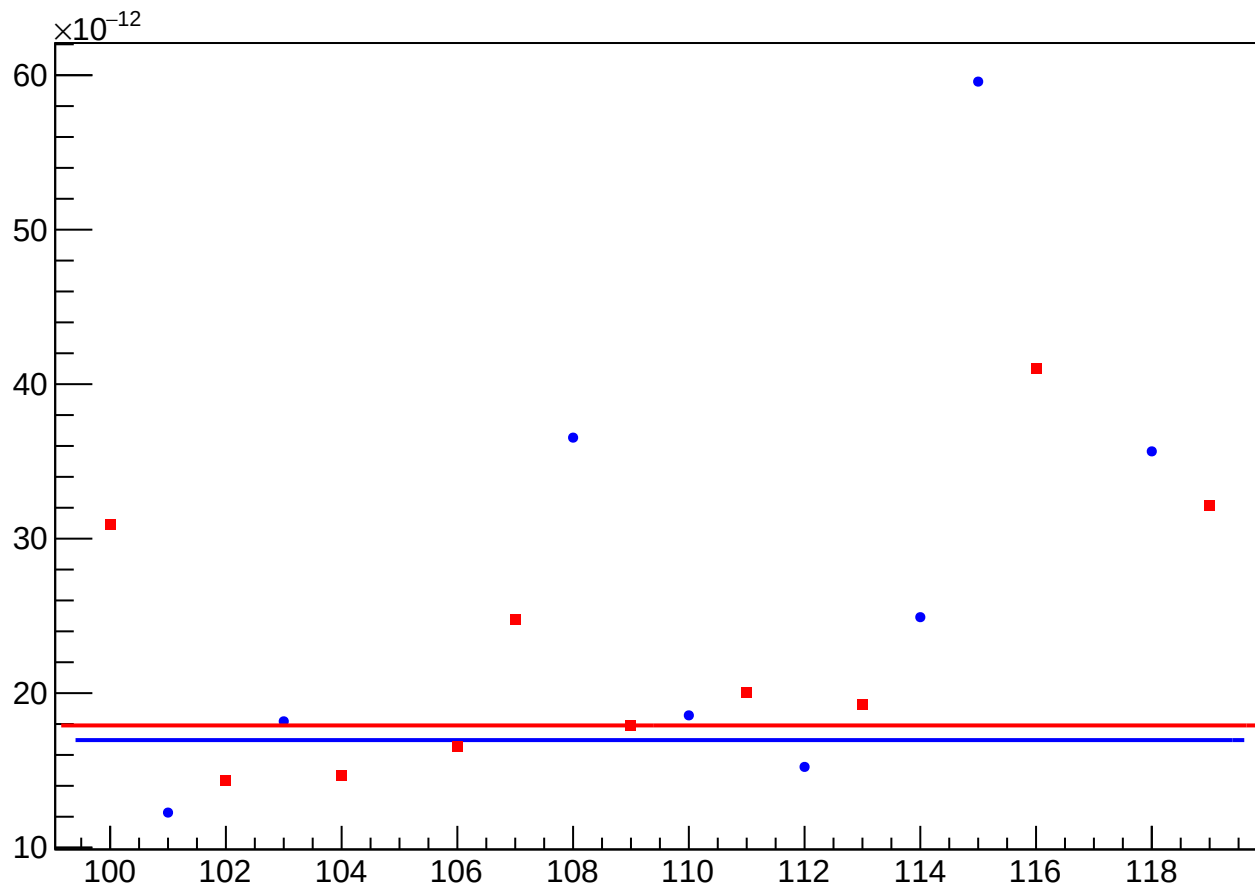
- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1548\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



asym\_sam\_1548\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 657215.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 406381.8/9

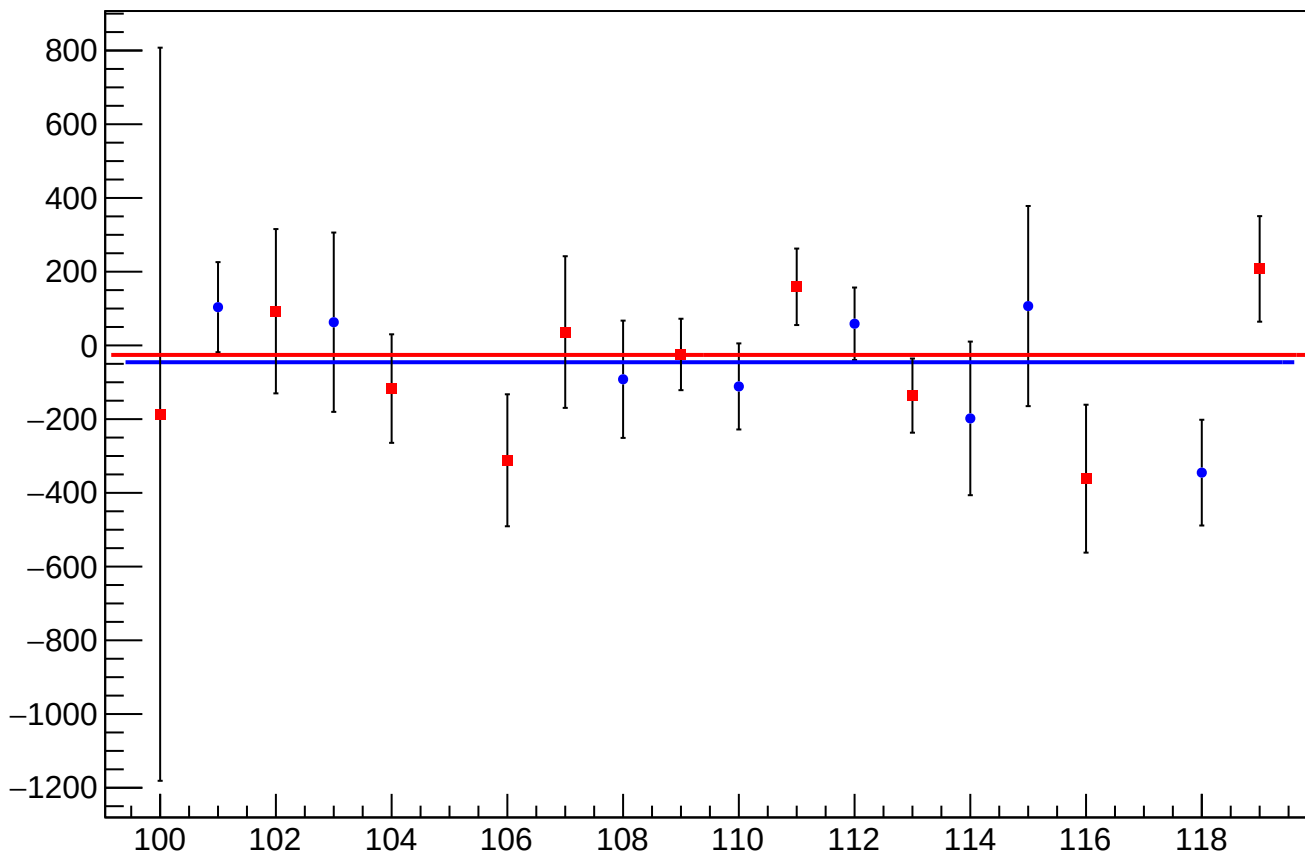
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1070403.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: -45.615+/-50.930  $\chi^2/\text{NDF}$ : 8.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -25.810+/-44.989  $\chi^2/\text{NDF}$ : 13.2/9

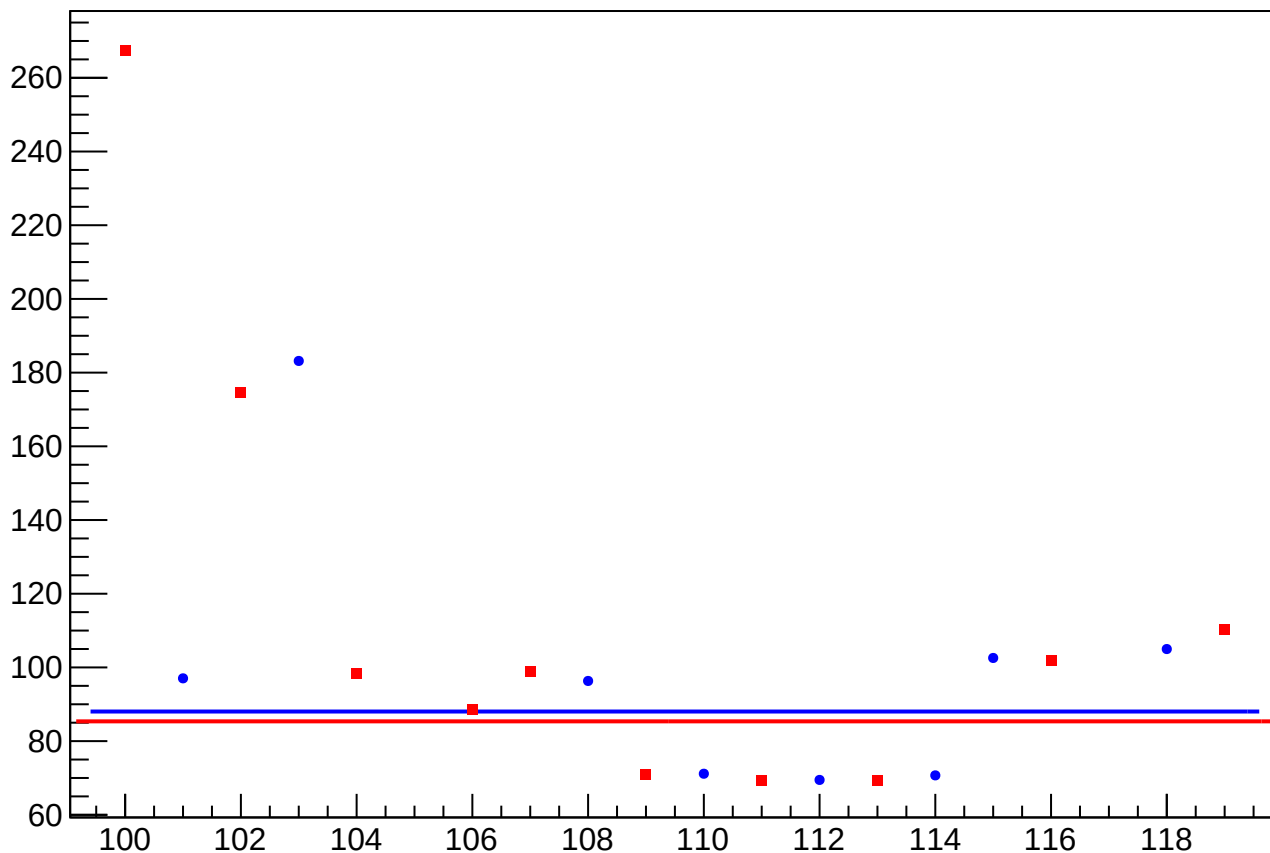
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -34.491+/-33.718  $\chi^2/\text{NDF}$ : 21.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 88.034+/-0.036  $\chi^2/\text{NDF}$ : 482993.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 85.364+/-0.032  $\chi^2/\text{NDF}$ : 630362.0/9

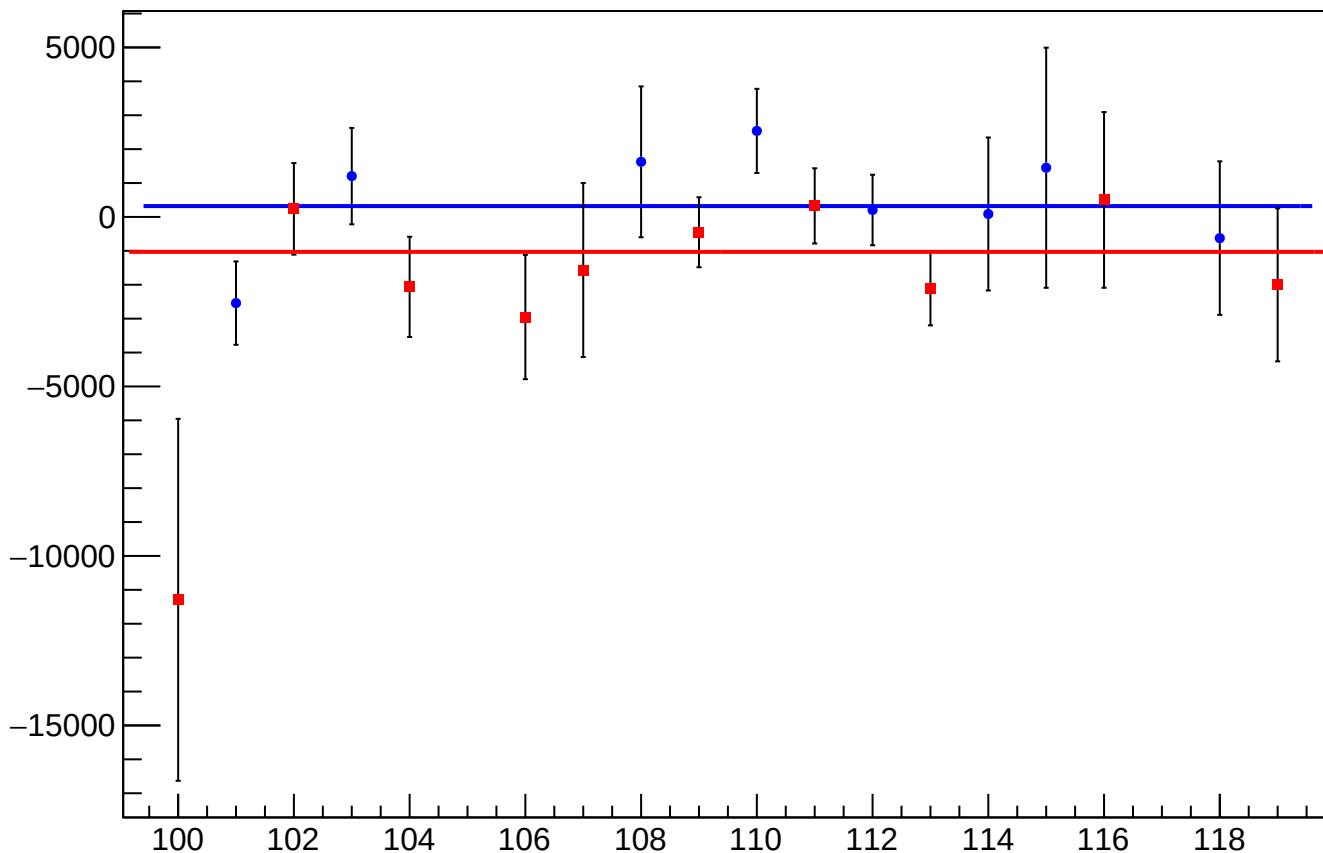
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 86.535+/-0.024  $\chi^2/\text{NDF}$ : 1116442.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_reg\_correction\_mean vs Slug



Right In: 320.419+/-542.175  $\chi^2/\text{NDF}$ : 9.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1030.072+/-475.820  $\chi^2/\text{NDF}$ : 9.5/9

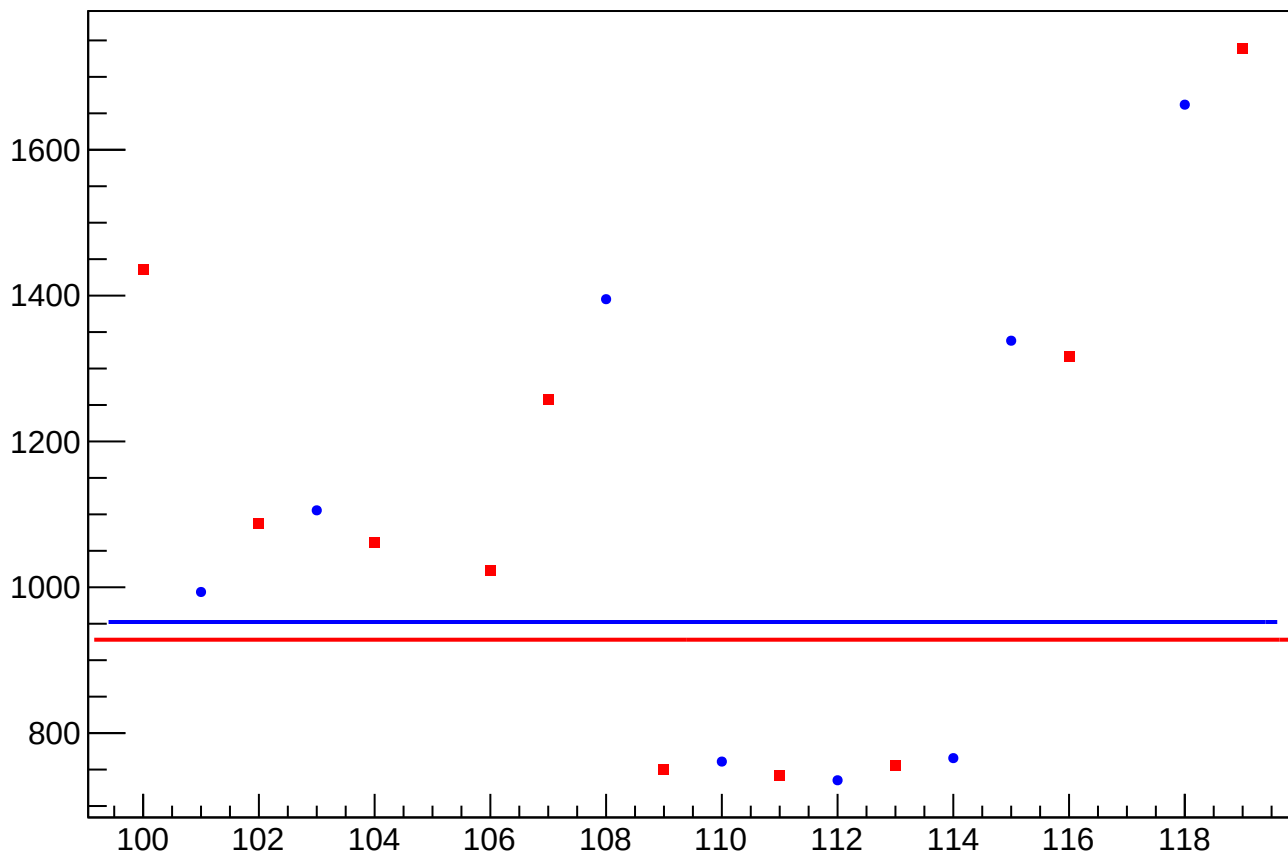
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -442.482+/-357.628  $\chi^2/\text{NDF}$ : 22.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_reg\_correction\_rms vs Slug



Right In: 952.375+/-0.383  $\chi^2/\text{NDF}$ : 472985.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 928.090+/-0.336  $\chi^2/\text{NDF}$ : 569317.3/9

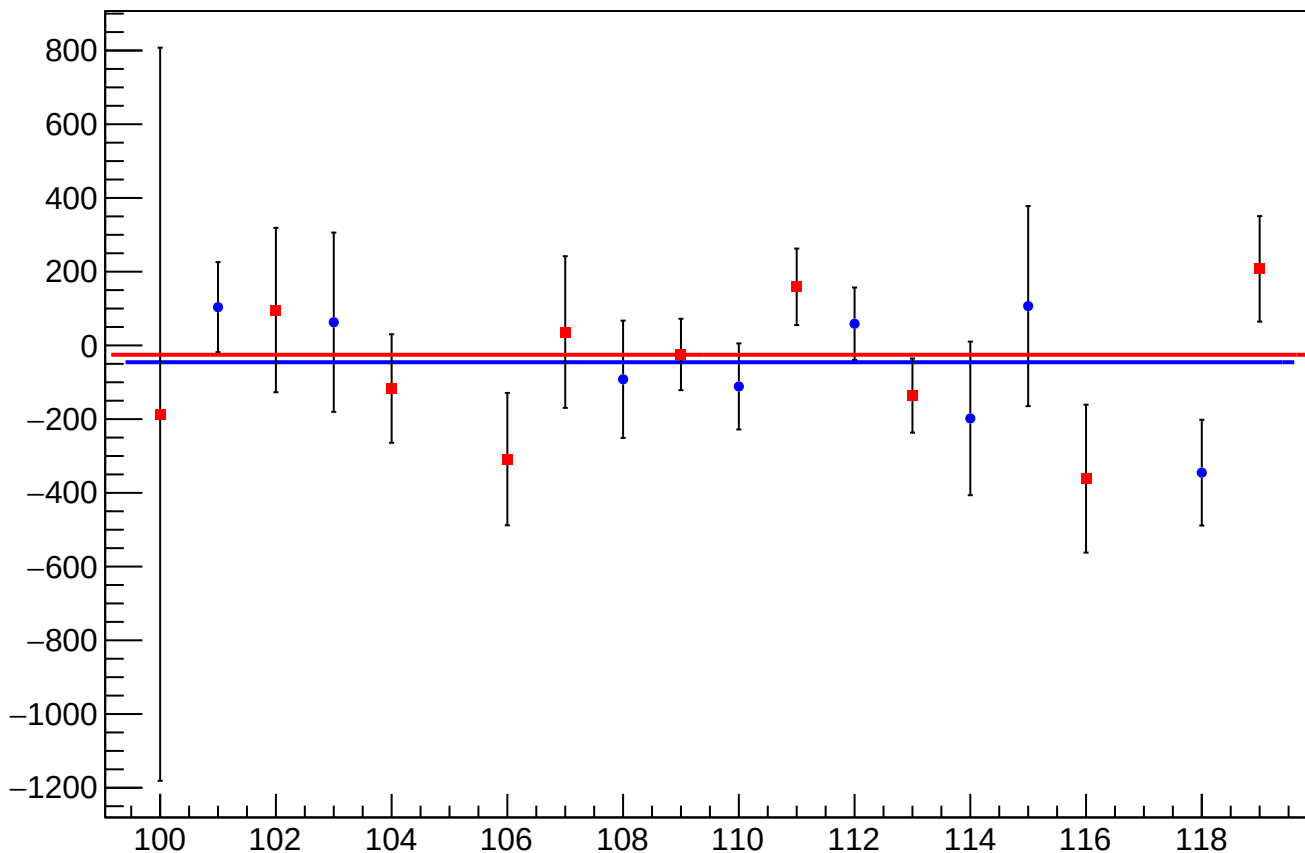
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 938.657+/-0.253  $\chi^2/\text{NDF}$ : 1044569.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: -45.640 $\pm$ 50.930  $\chi^2$ /NDF: 8.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -25.365 $\pm$ 44.998  $\chi^2$ /NDF: 13.1/9

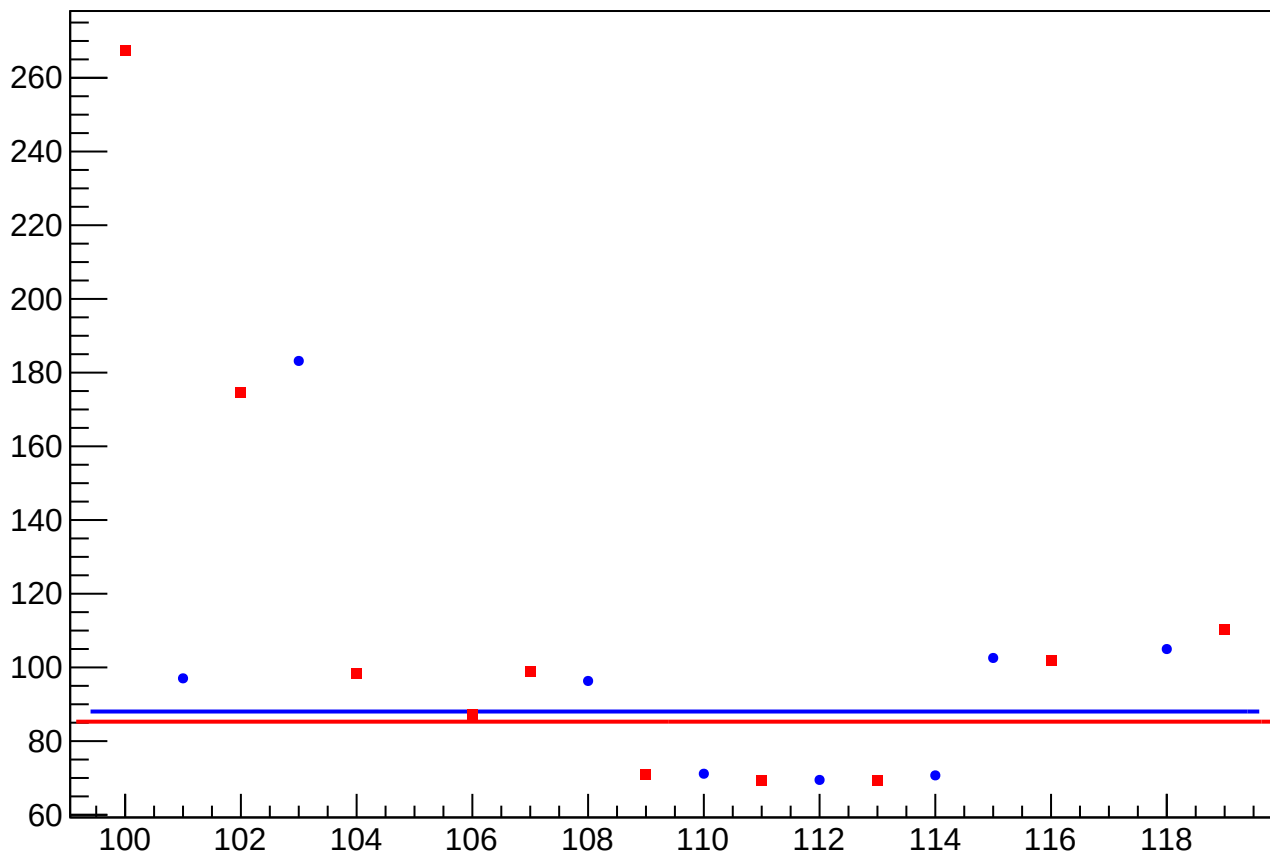
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -34.254 $\pm$ 33.722  $\chi^2$ /NDF: 21.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 88.034+/-0.036  $\chi^2/\text{NDF}$ : 482996.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 85.281+/-0.032  $\chi^2/\text{NDF}$ : 630168.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

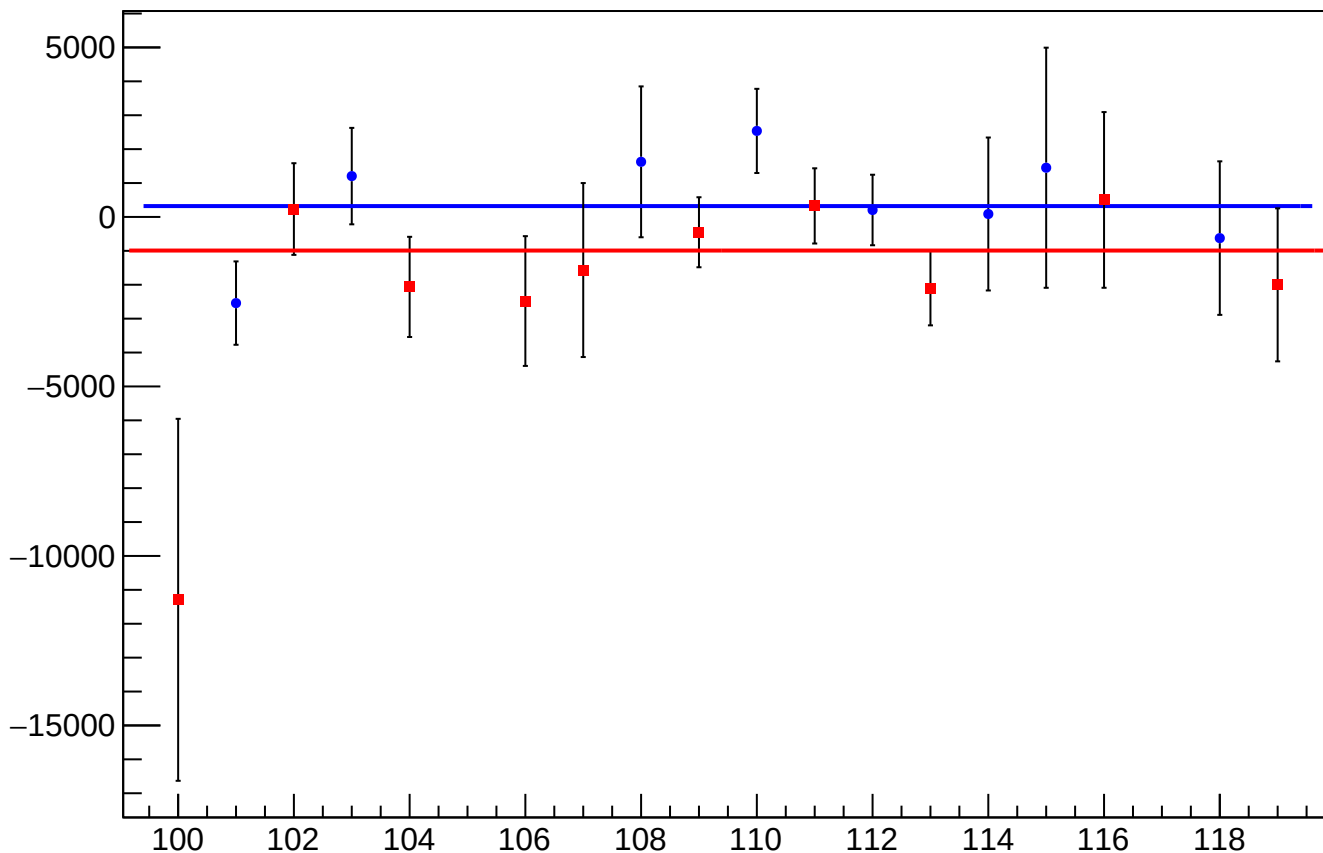
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 86.488+/-0.024  $\chi^2/\text{NDF}$ : 1116448.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_3748\_avg\_cor\_correction\_mean vs Slug



Right In: 320.394+/-542.183  $\chi^2/\text{NDF}$ : 9.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -991.207+/-477.175  $\chi^2/\text{NDF}$ : 9.0/9

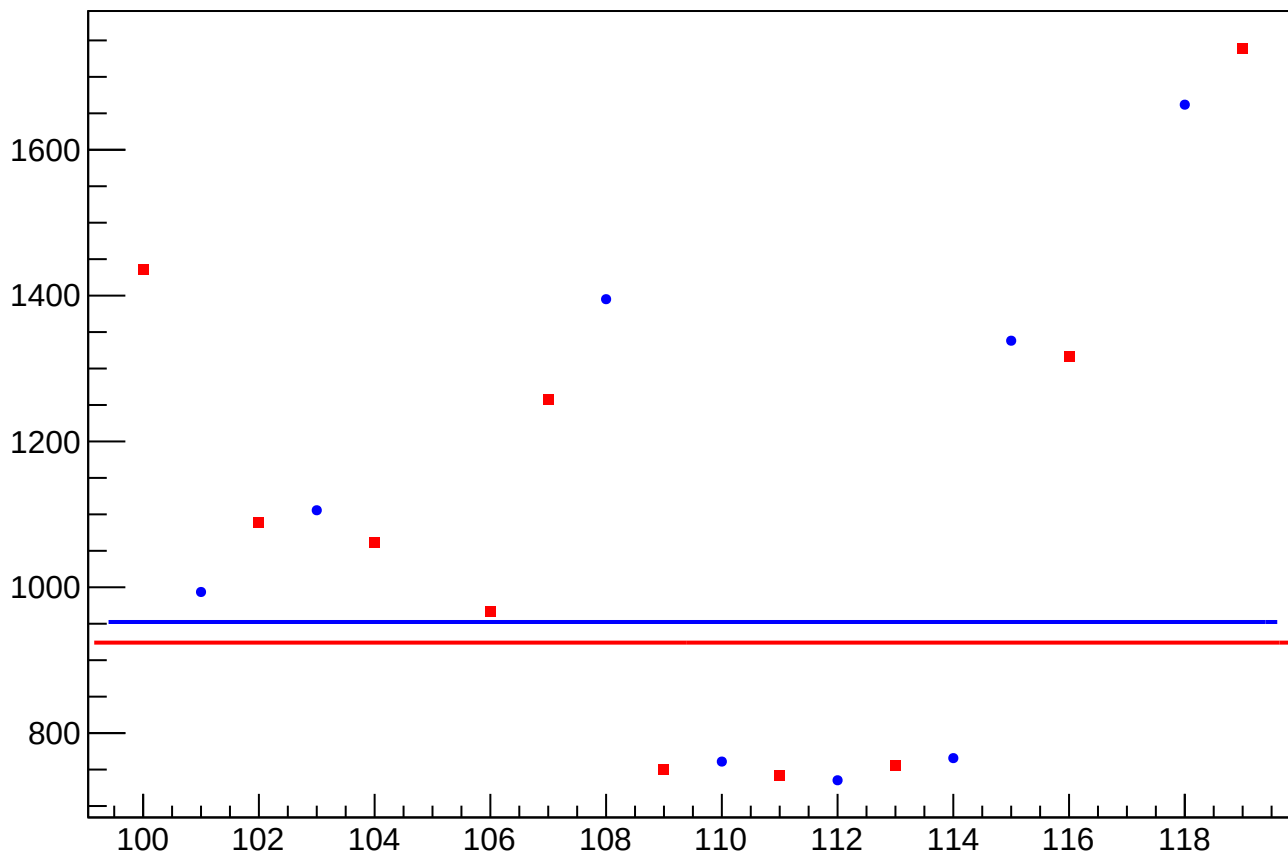
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -418.714+/-358.204  $\chi^2/\text{NDF}$ : 21.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_cor\_correction\_rms vs Slug



Right In: 952.386+/-0.383  $\chi^2/\text{NDF}$ : 473013.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 924.094+/-0.337  $\chi^2/\text{NDF}$ : 564780.2/9

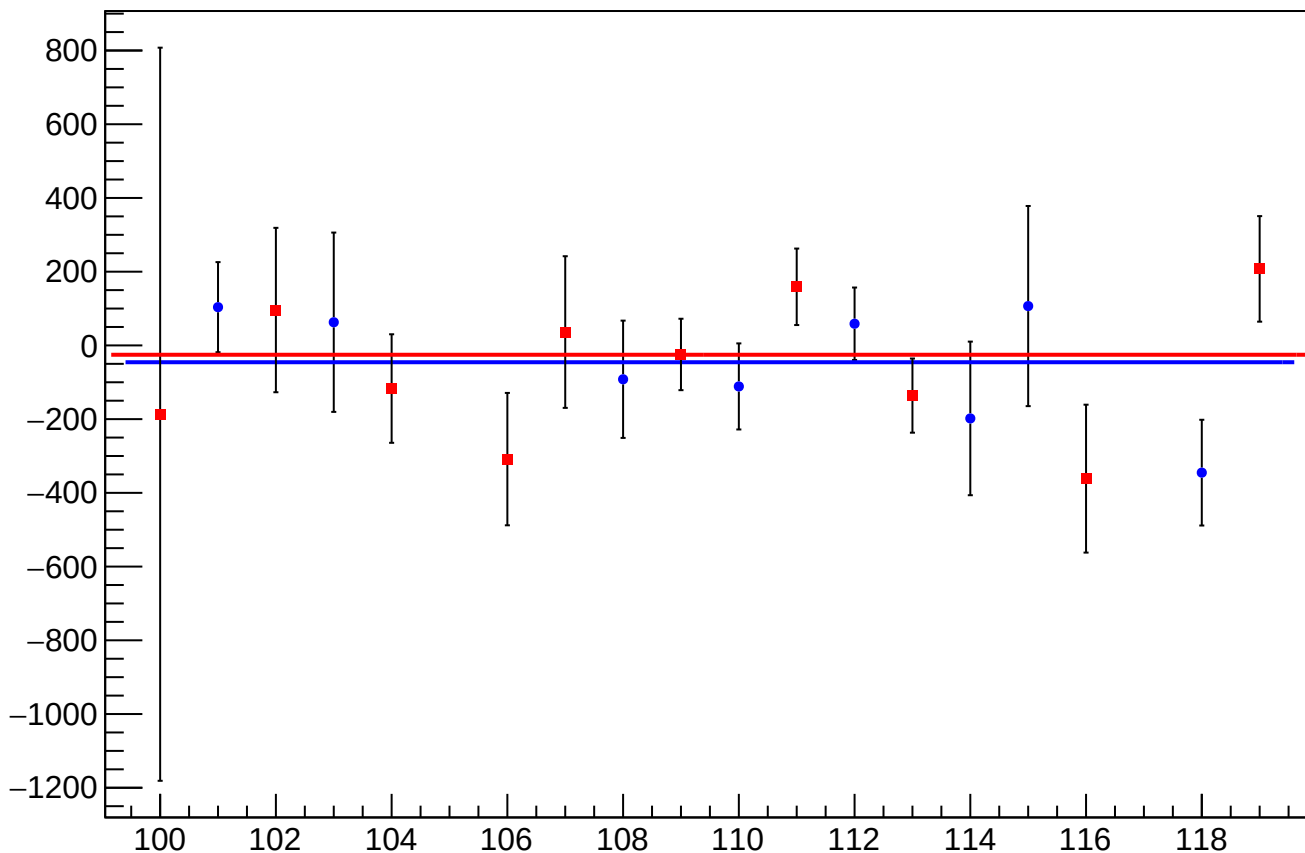
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 936.443+/-0.253  $\chi^2/\text{NDF}$ : 1040862.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: -45.640+/-50.930  $\chi^2/\text{NDF}$ : 8.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -25.365+/-44.998  $\chi^2/\text{NDF}$ : 13.1/9

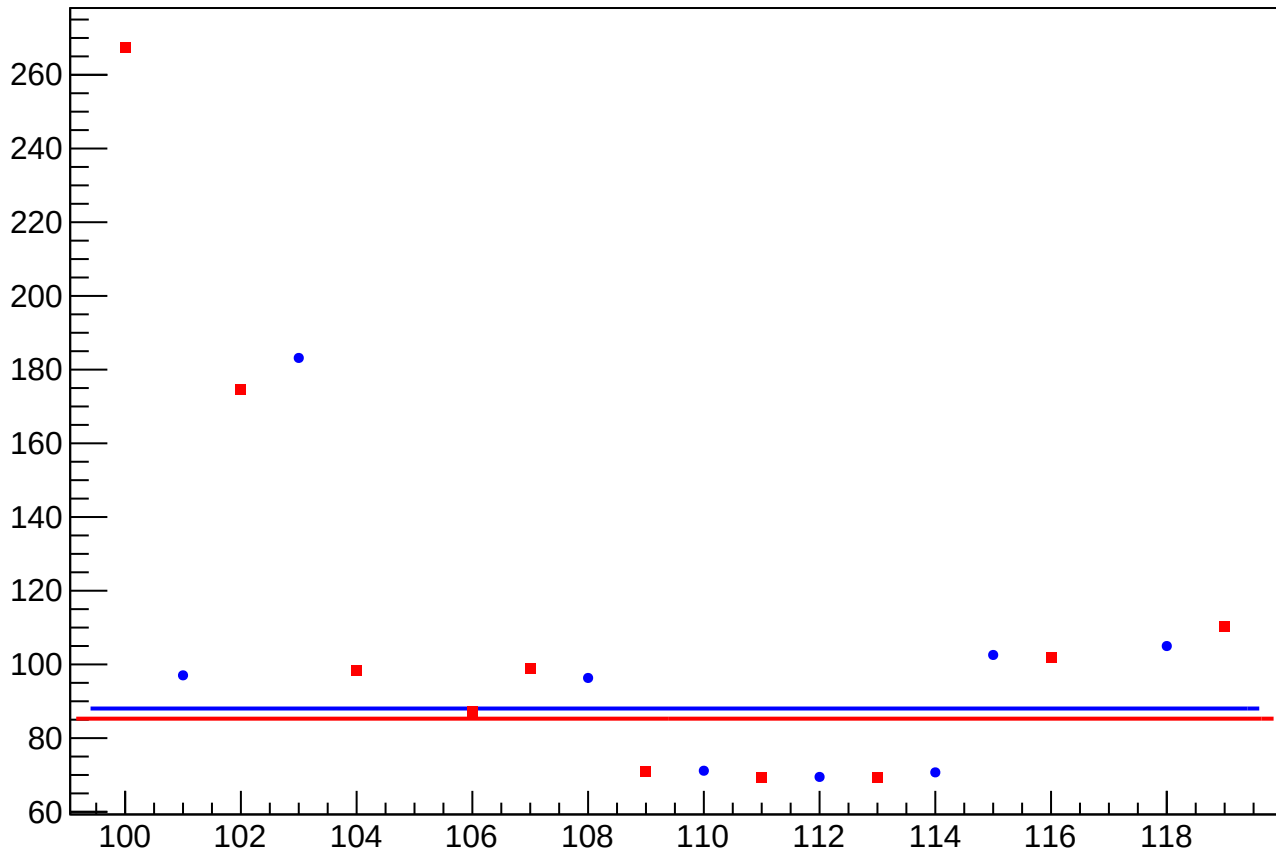
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -34.254+/-33.722  $\chi^2/\text{NDF}$ : 21.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 88.034+/-0.036  $\chi^2/\text{NDF}$ : 482996.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 85.281+/-0.032  $\chi^2/\text{NDF}$ : 630168.4/9

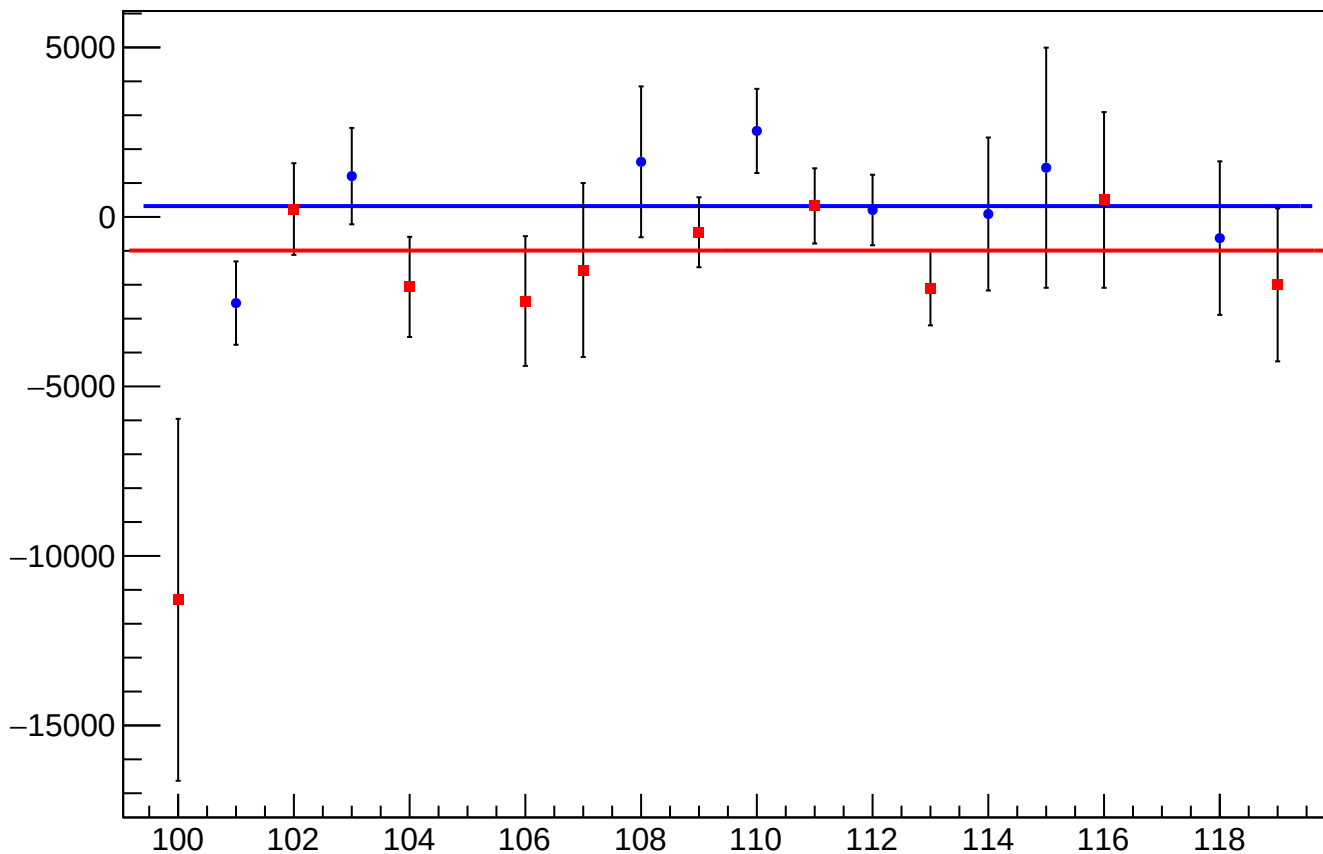
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 86.488+/-0.024  $\chi^2/\text{NDF}$ : 1116448.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 320.394+/-542.183  $\chi^2/\text{NDF}$ : 9.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -991.207+/-477.175  $\chi^2/\text{NDF}$ : 9.0/9

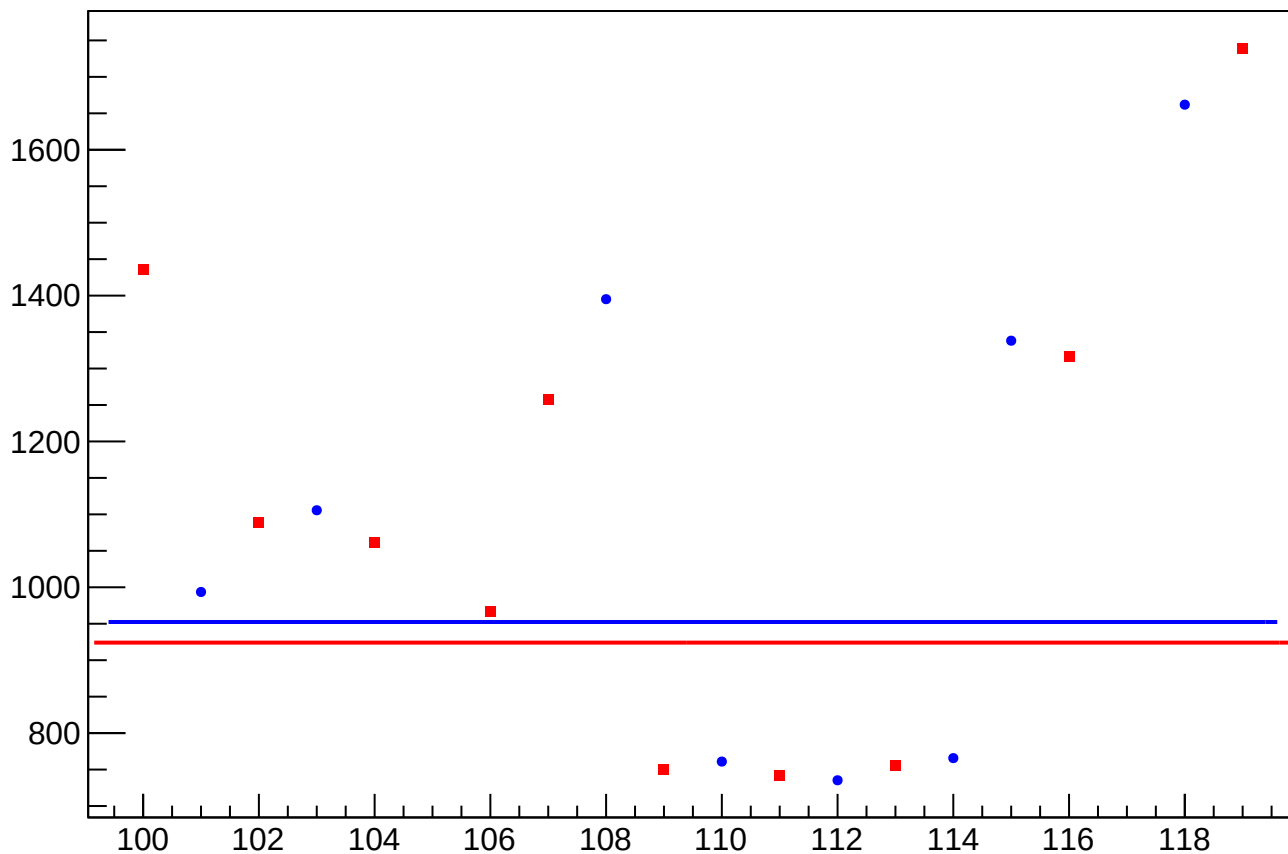
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -418.714+/-358.204  $\chi^2/\text{NDF}$ : 21.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 952.386+/-0.383  $\chi^2/\text{NDF}$ : 473013.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 924.094+/-0.337  $\chi^2/\text{NDF}$ : 564780.2/9

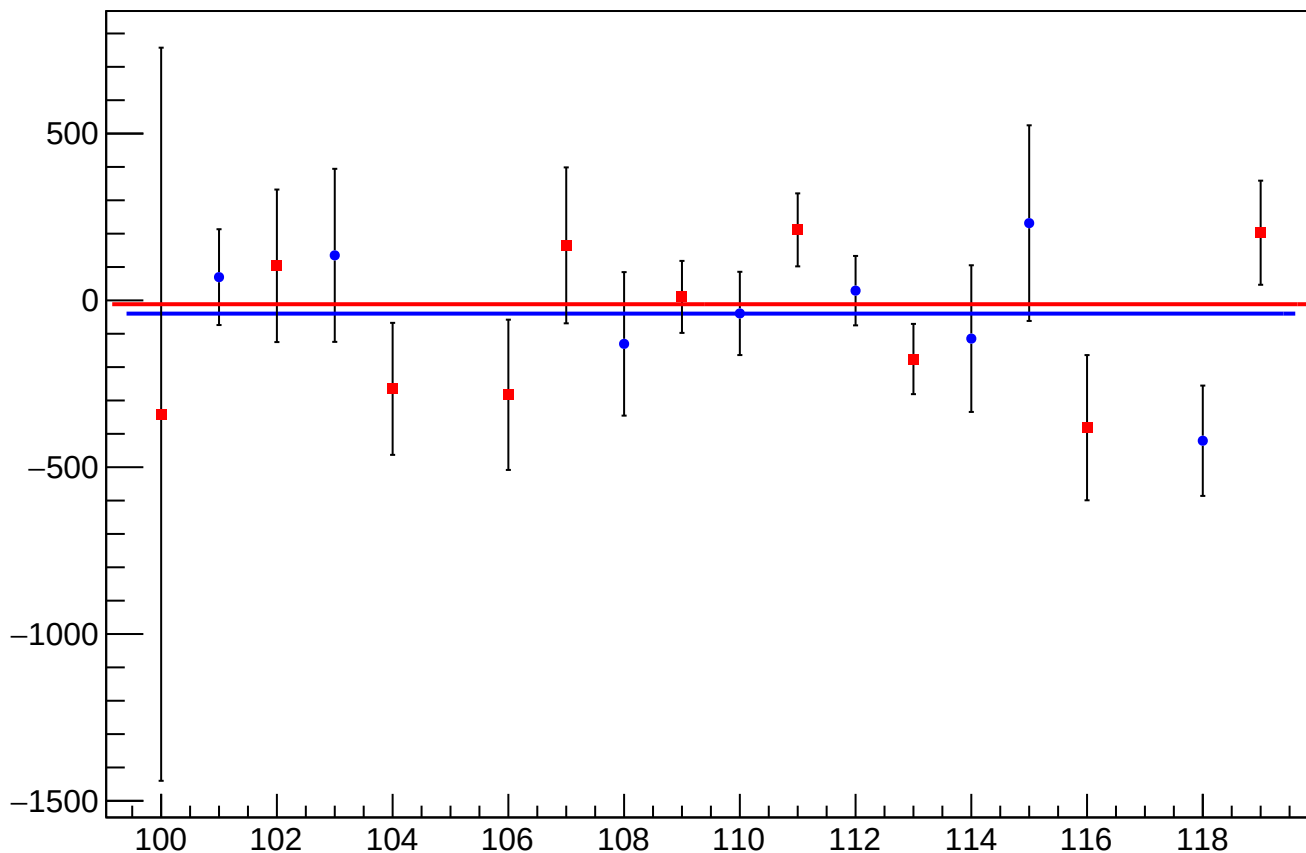
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 936.443+/-0.253  $\chi^2/\text{NDF}$ : 1040862.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: -39.657 $\pm$ 56.752  $\chi^2$ /NDF: 7.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -11.479 $\pm$ 49.667  $\chi^2$ /NDF: 15.4/9

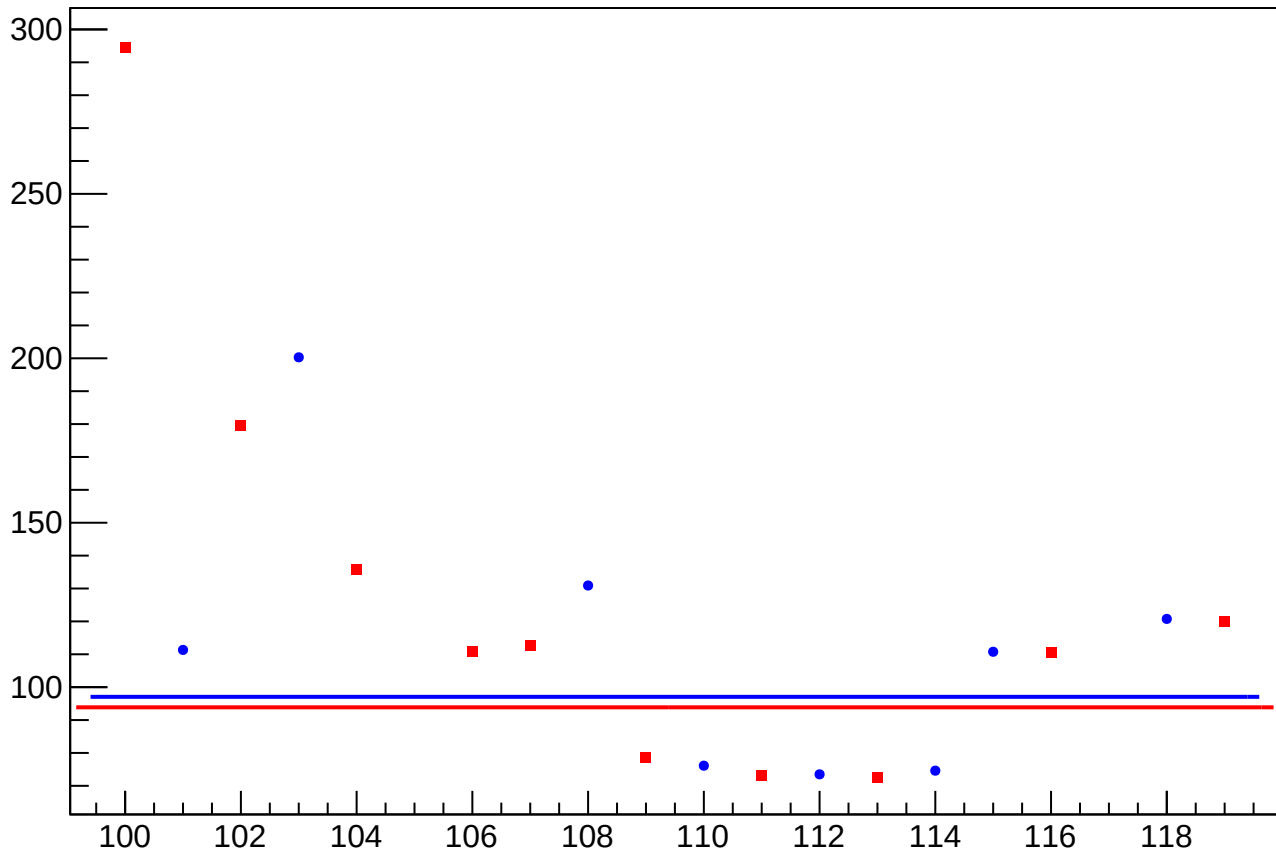
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -23.701 $\pm$ 37.375  $\chi^2$ /NDF: 23.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 97.059 $\pm$ 0.040  $\chi^2$ /NDF: 611398.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 93.871 $\pm$ 0.035  $\chi^2$ /NDF: 725804.2/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

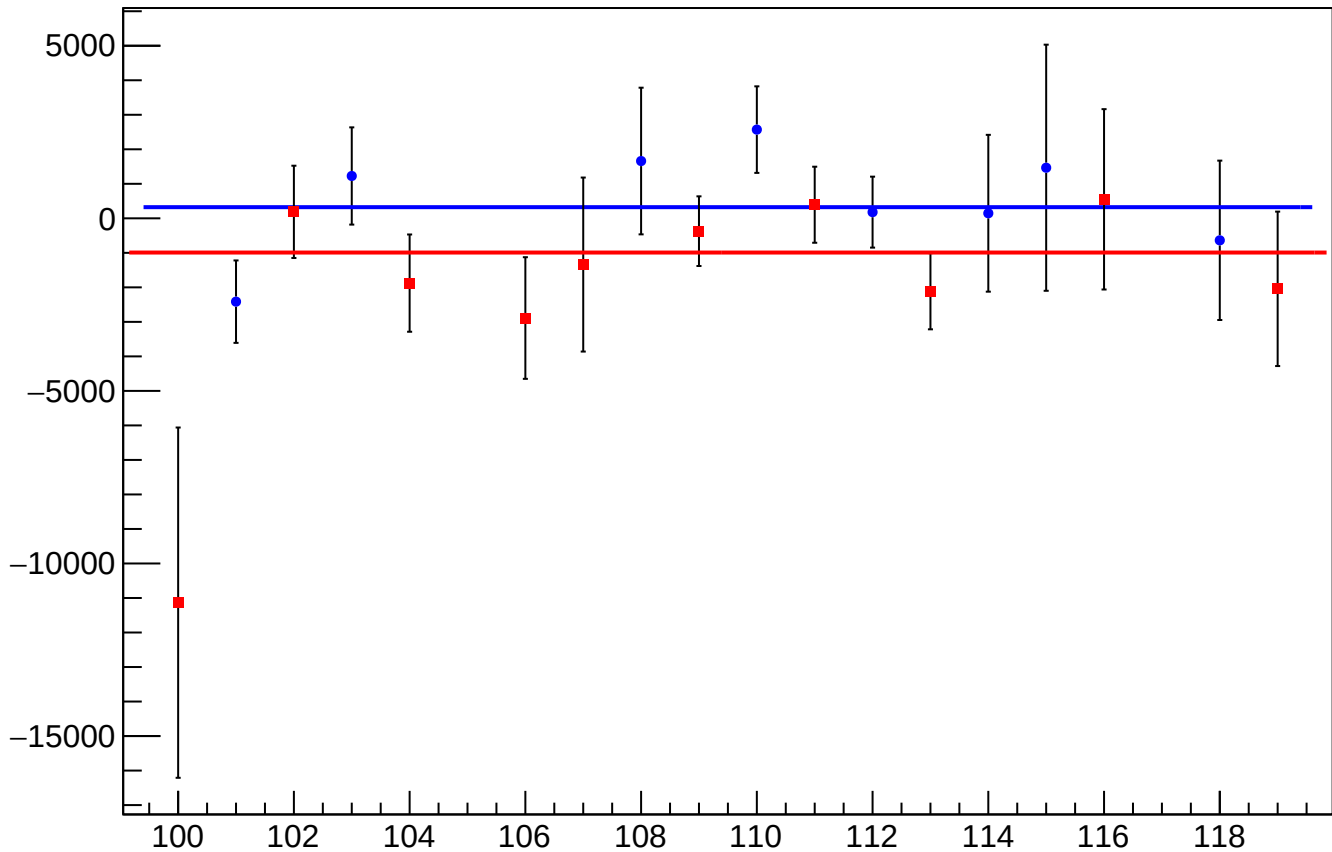
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 95.254 $\pm$ 0.026  $\chi^2$ /NDF: 1340774.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_3748\_avg\_dit\_correction\_mean vs Slug



Right In: 323.364+/-536.907  $\chi^2/\text{NDF}$ : 9.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -991.281+/-468.601  $\chi^2/\text{NDF}$ : 9.9/9

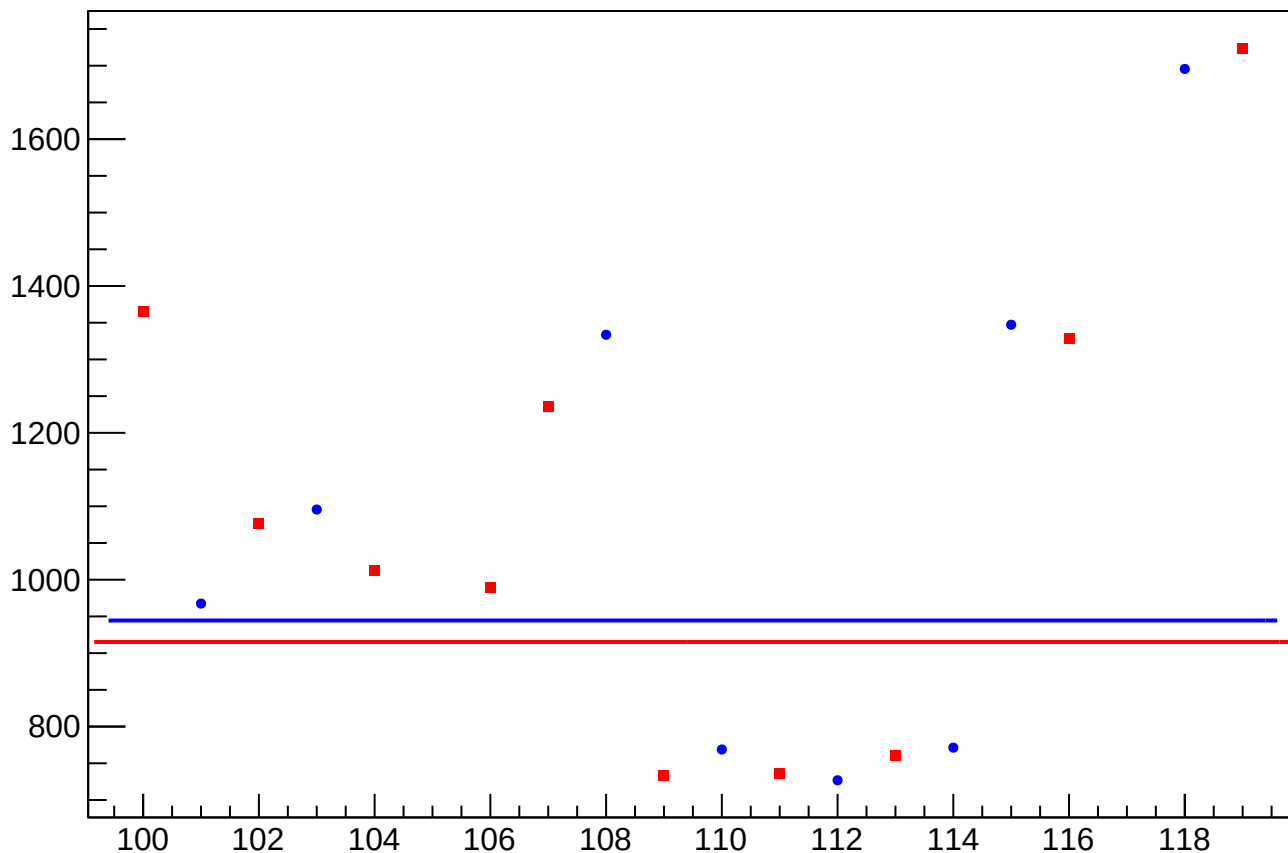
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -422.855+/-353.047  $\chi^2/\text{NDF}$ : 22.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3748\_avg\_dit\_correction\_rms vs Slug



Right In: 944.453+/-0.380  $\chi^2/\text{NDF}$ : 468555.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 915.282+/-0.331  $\chi^2/\text{NDF}$ : 558199.6/9

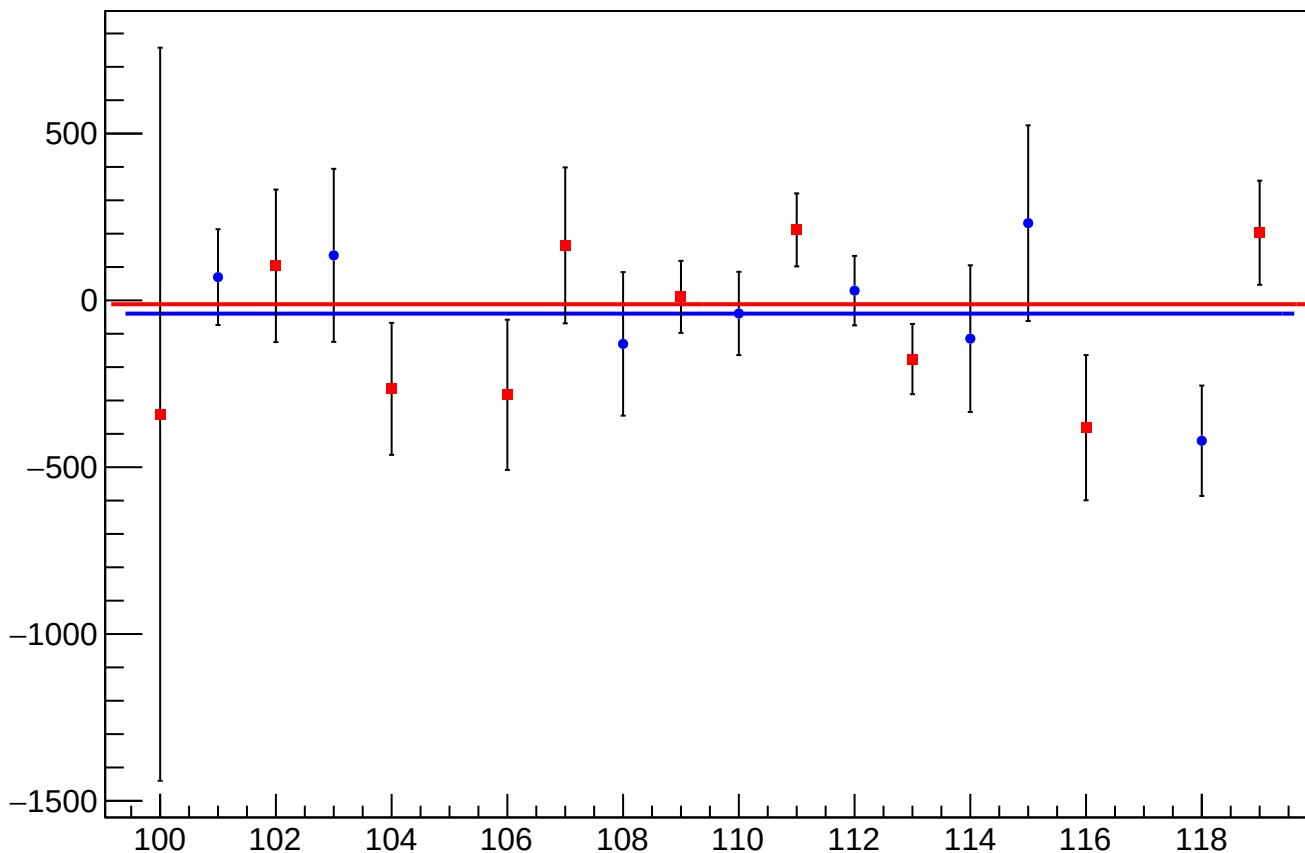
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 927.895+/-0.250  $\chi^2/\text{NDF}$ : 1030106.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_3748\_avg\_mean vs Slug



Right In:  $-39.658 \pm 56.752$   $\chi^2/\text{NDF}$ : 7.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-11.477 \pm 49.667$   $\chi^2/\text{NDF}$ : 15.4/9

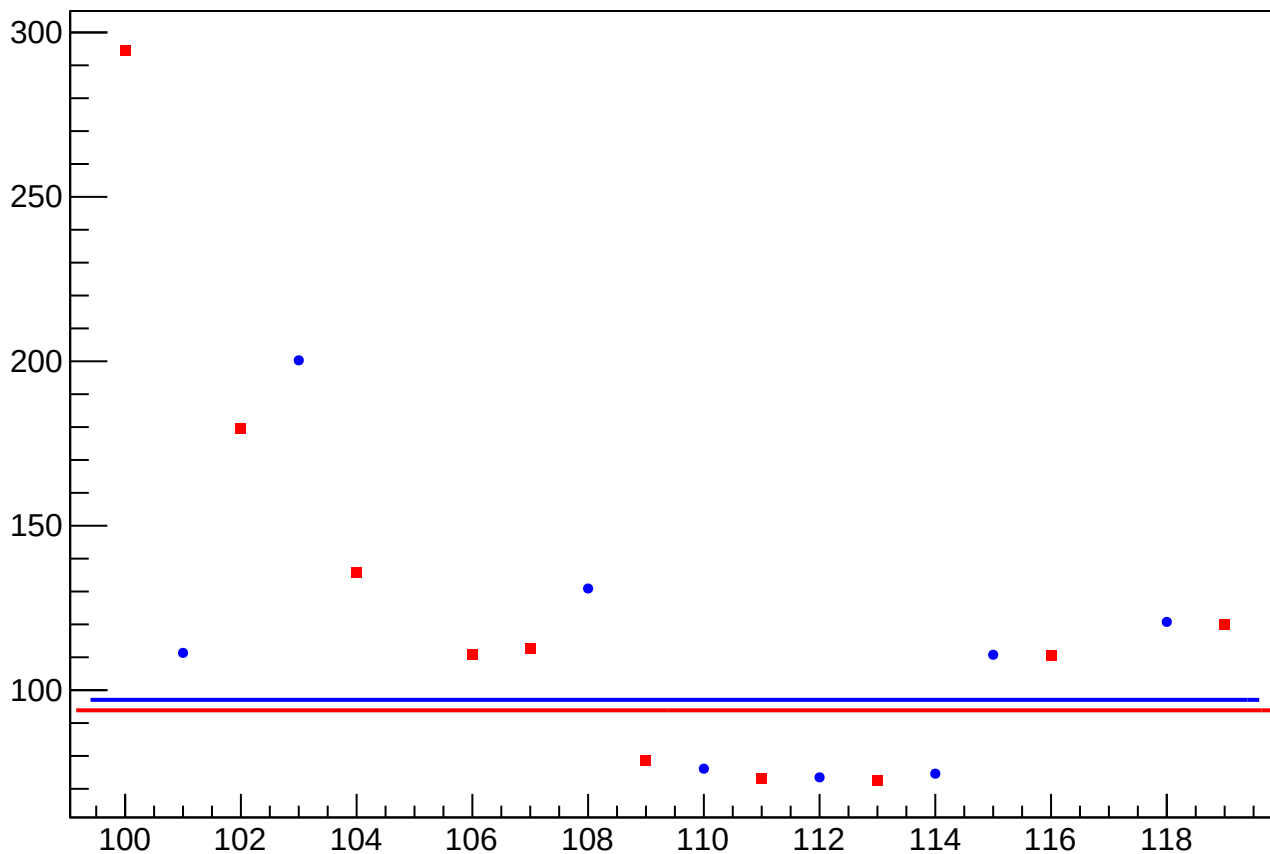
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-23.700 \pm 37.375$   $\chi^2/\text{NDF}$ : 23.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 97.059+/-0.040  $\chi^2/\text{NDF}$ : 611401.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 93.872+/-0.035  $\chi^2/\text{NDF}$ : 725805.3/9

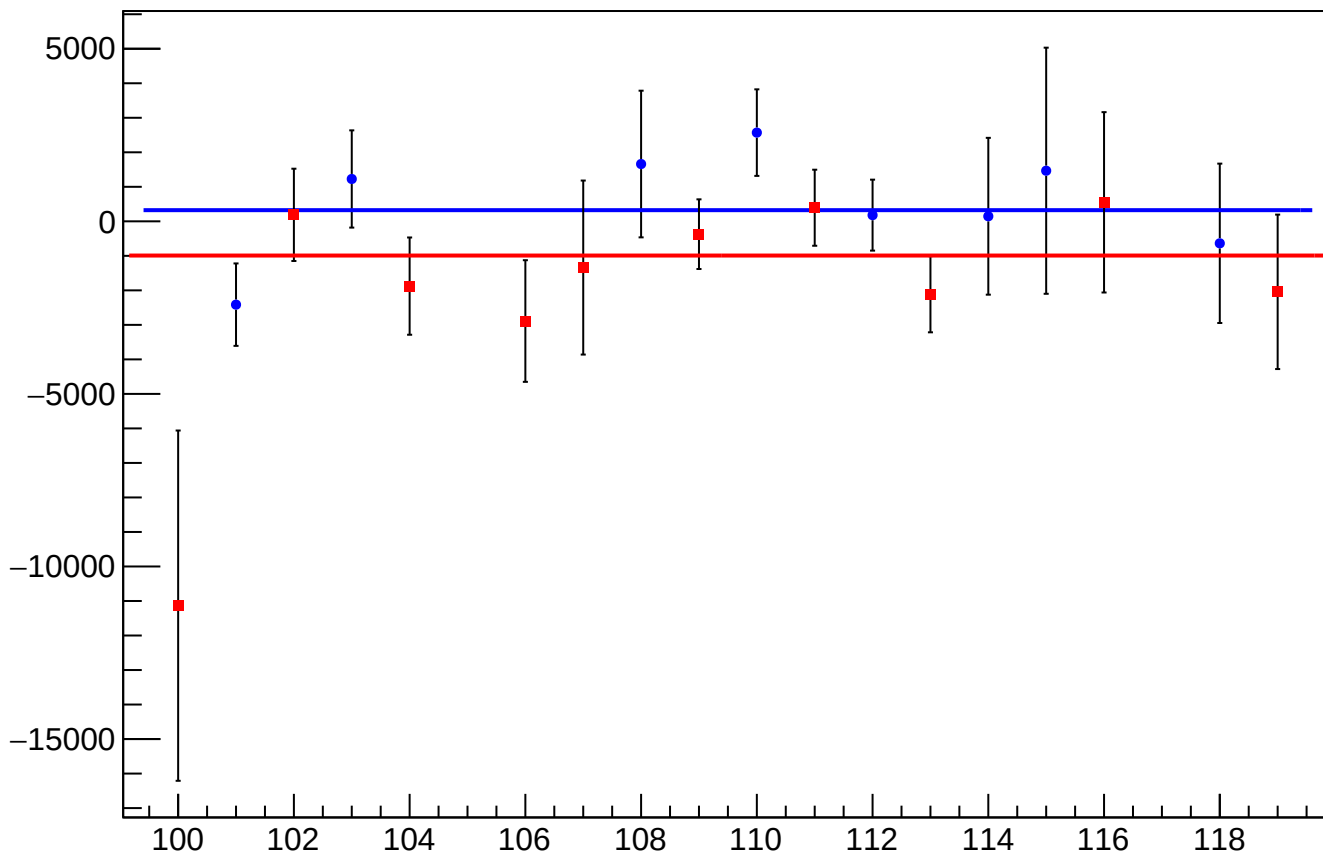
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.254+/-0.026  $\chi^2/\text{NDF}$ : 1340778.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 323.363+/-536.906  $\chi^2/\text{NDF}$ : 9.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -991.279+/-468.600  $\chi^2/\text{NDF}$ : 9.9/9

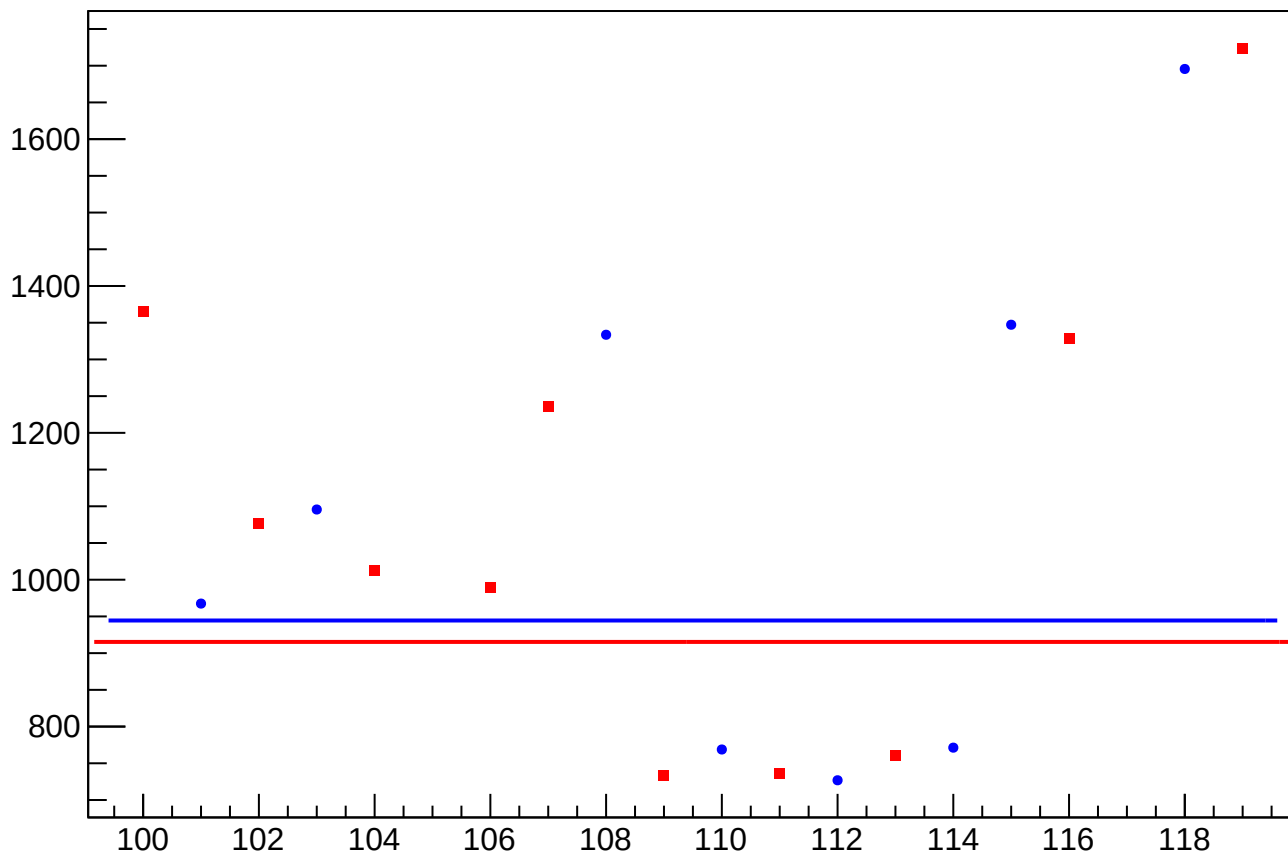
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -422.854+/-353.046  $\chi^2/\text{NDF}$ : 22.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 944.451+/-0.380  $\chi^2/\text{NDF}$ : 468558.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 915.280+/-0.331  $\chi^2/\text{NDF}$ : 558201.6/9

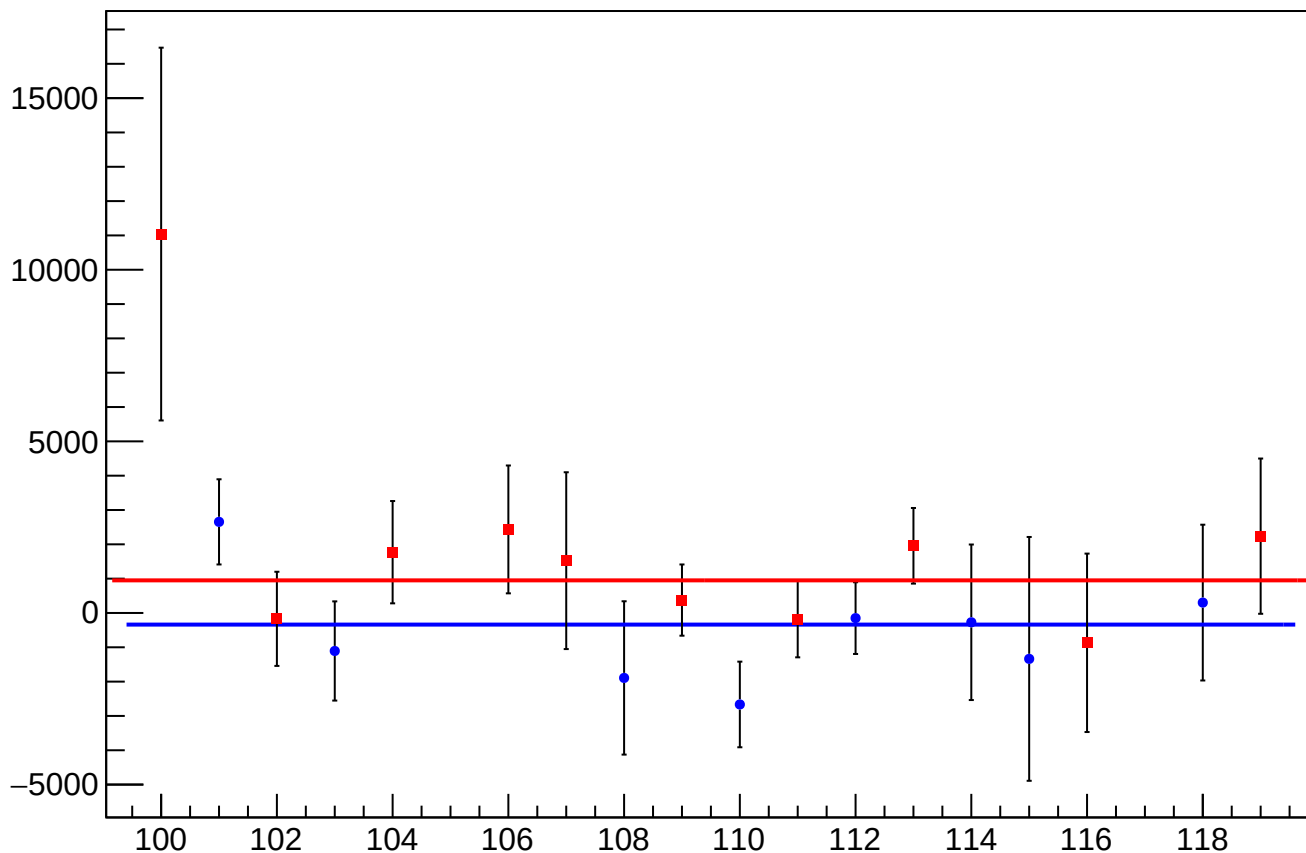
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 927.893+/-0.250  $\chi^2/\text{NDF}$ : 1030110.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3748\_avg\_mean vs Slug



Right In: -338.741+/-545.896  $\chi^2/\text{NDF}$ : 10.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 949.975+/-479.090  $\chi^2/\text{NDF}$ : 8.1/9

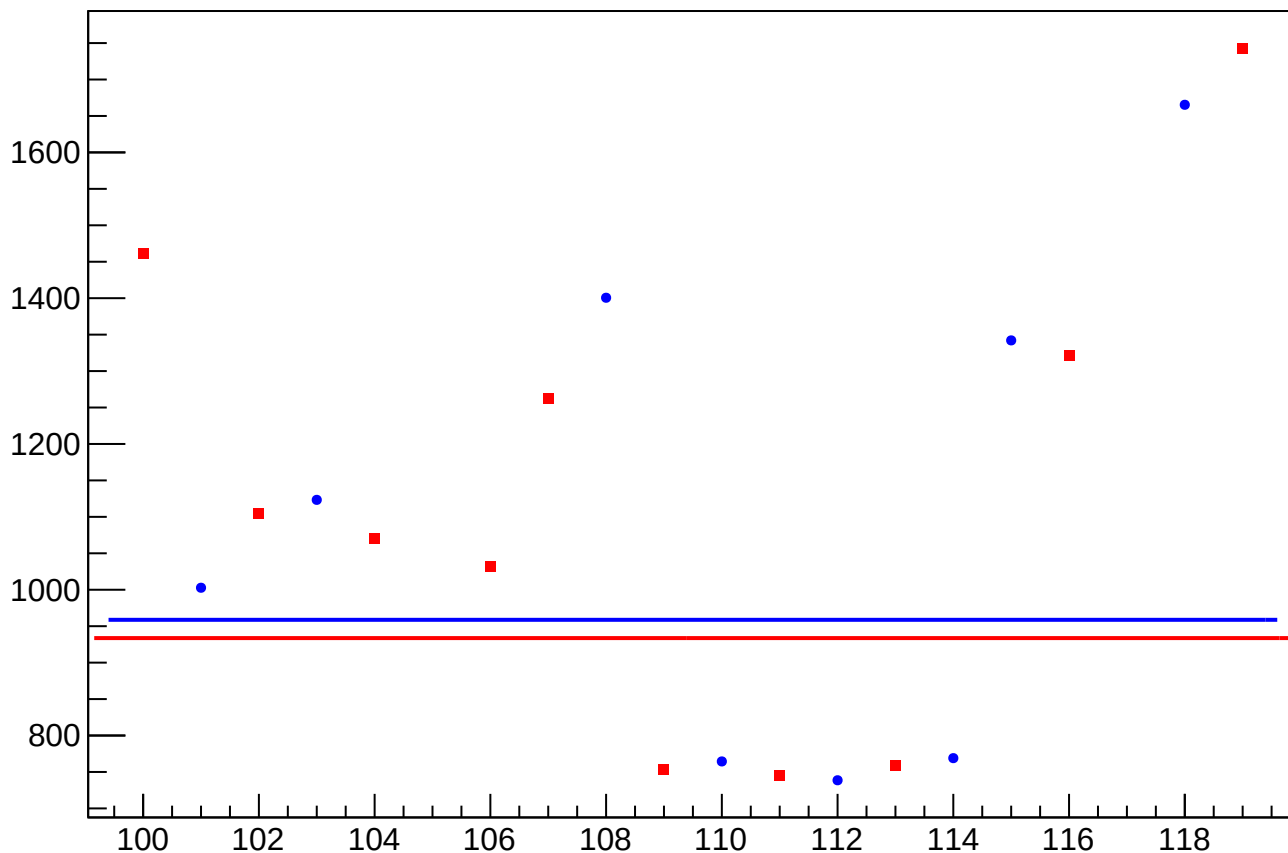
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 389.257+/-360.084  $\chi^2/\text{NDF}$ : 21.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3748\_avg\_rms vs Slug



Right In: 958.743+/-0.386  $\chi^2/\text{NDF}$ : 475234.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 933.670+/-0.339  $\chi^2/\text{NDF}$ : 572894.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

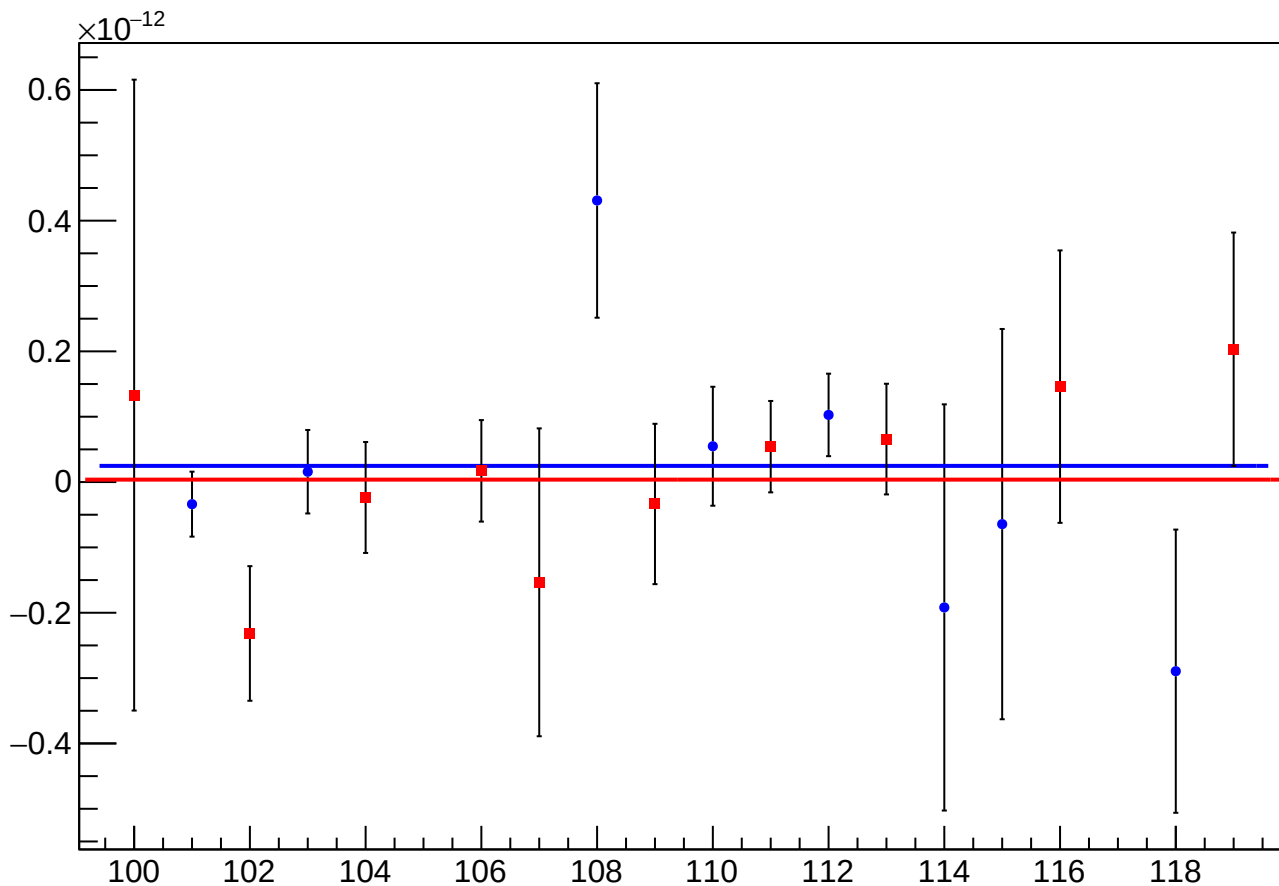
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 944.579+/-0.255  $\chi^2/\text{NDF}$ : 1050513.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_3748\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.7/9

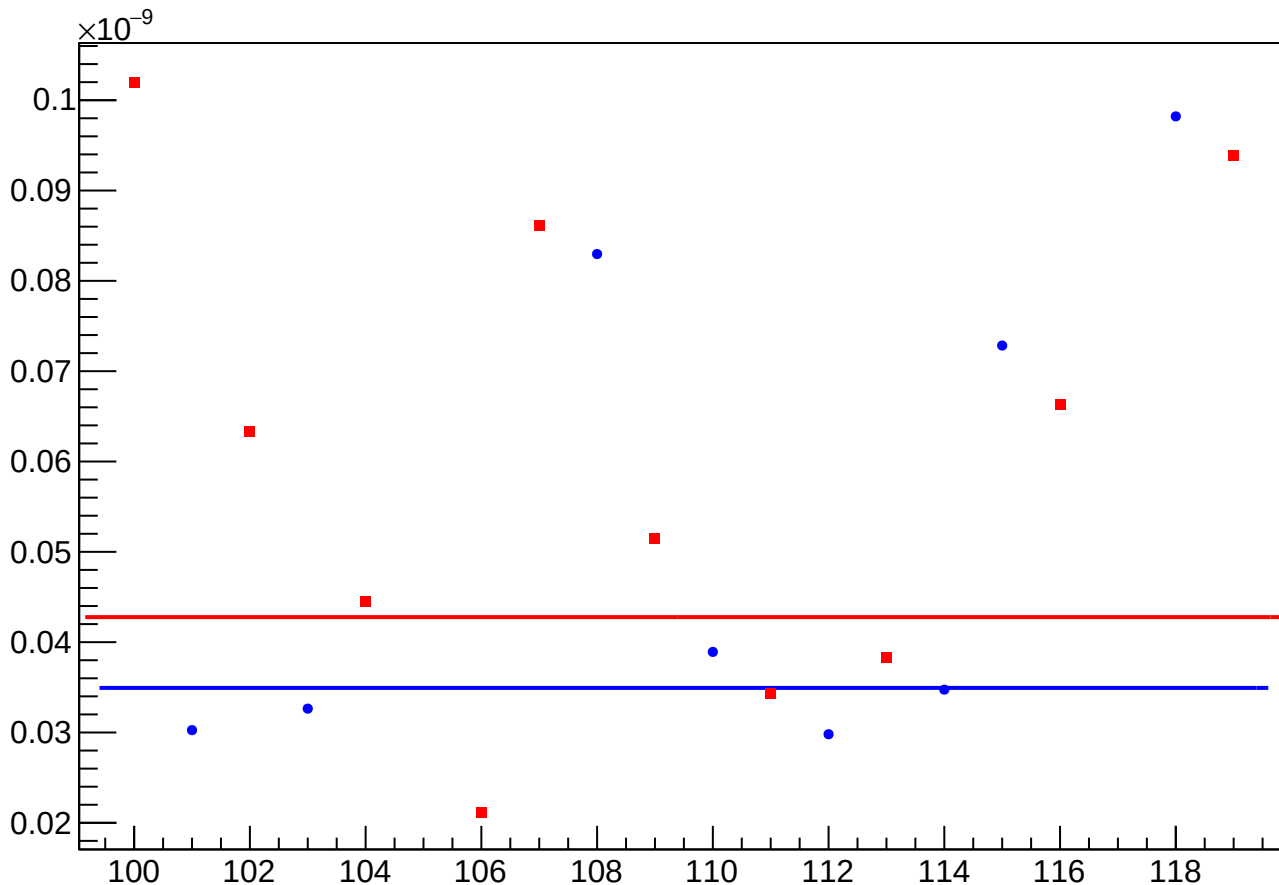
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.8/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 383420.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 566797.8/9

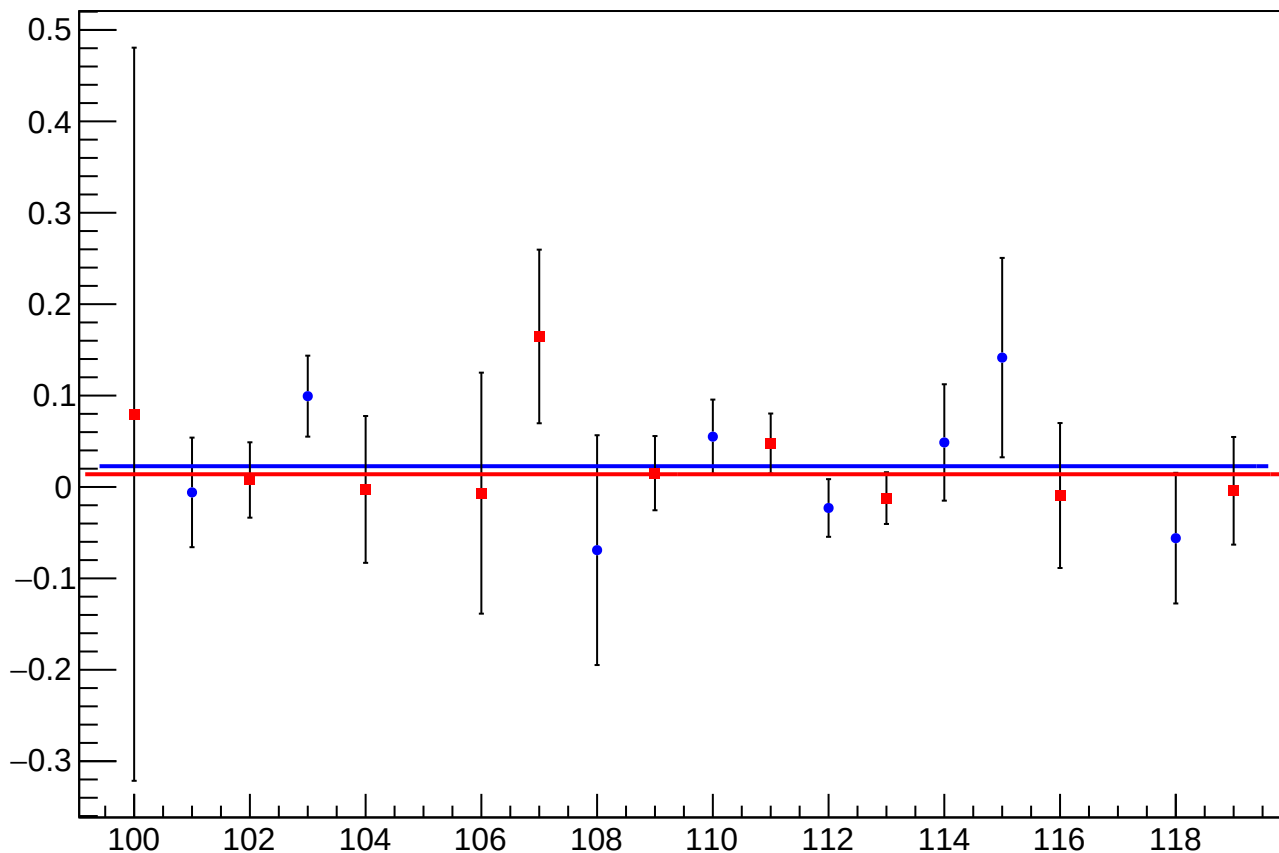
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1010351.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.023+/-0.018  $\chi^2/\text{NDF}$ : 9.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.016  $\chi^2/\text{NDF}$ : 4.7/9

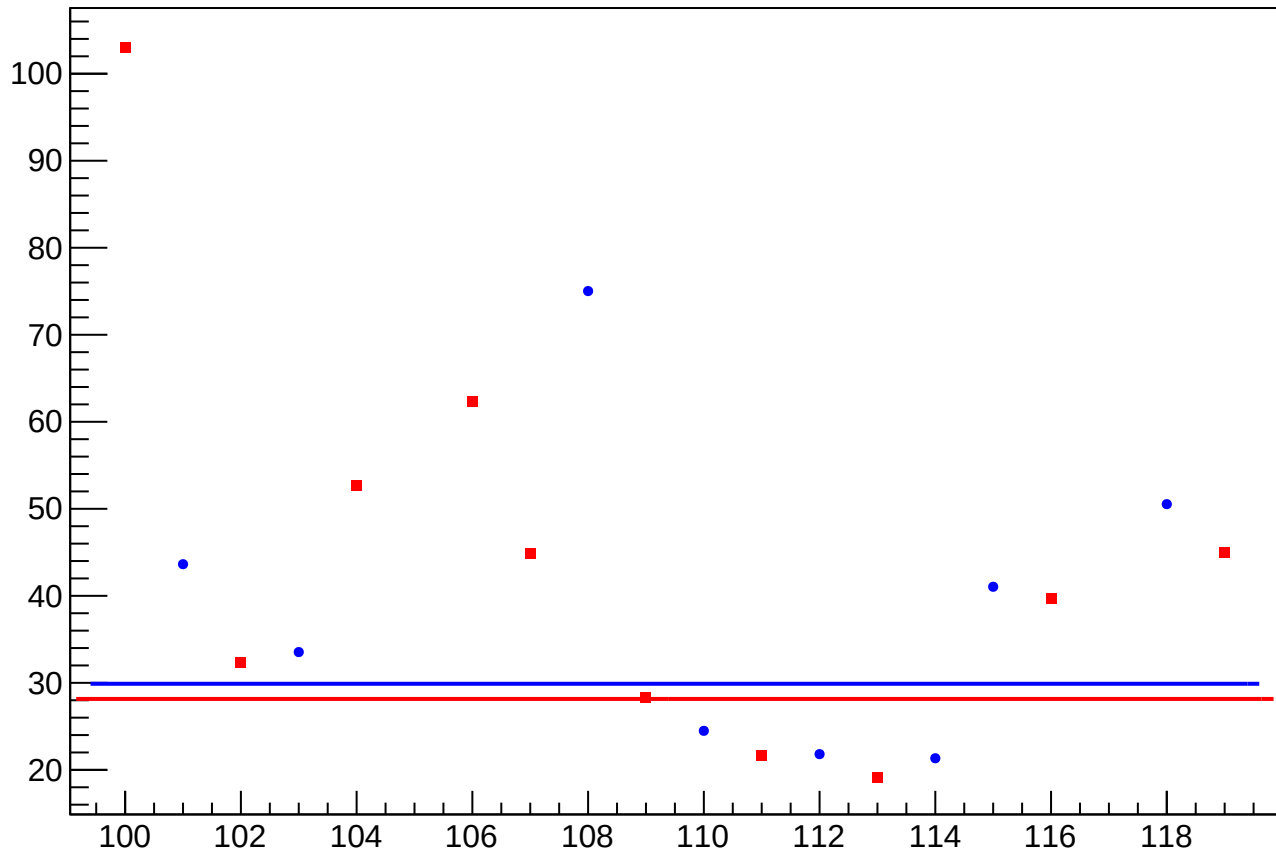
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.018+/-0.012  $\chi^2/\text{NDF}$ : 13.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 29.895+/-0.013  $\chi^2/\text{NDF}$ : 767085.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.151+/-0.011  $\chi^2/\text{NDF}$ : 960409.0/9

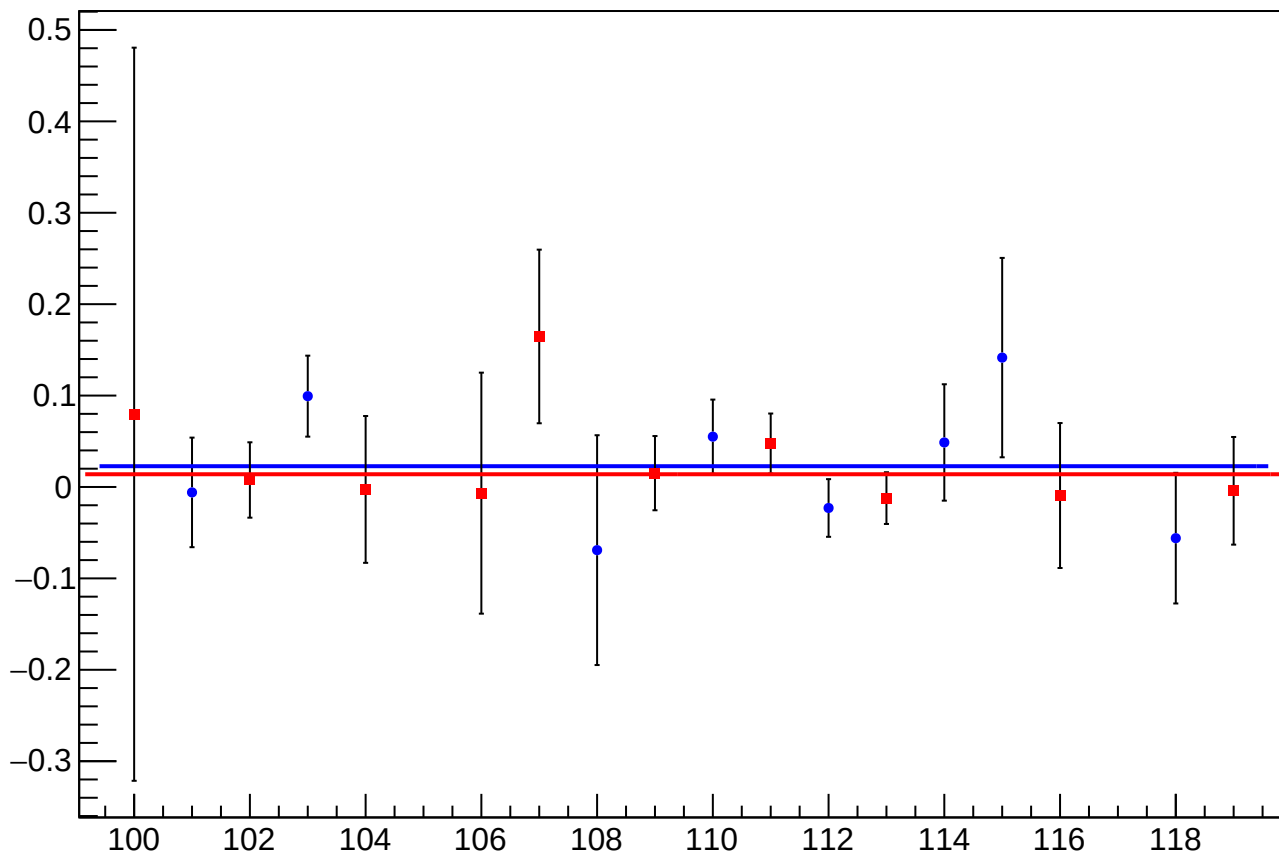
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.881+/-0.008  $\chi^2/\text{NDF}$ : 1738052.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.023 $\pm$ 0.018  $\chi^2$ /NDF: 9.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.016  $\chi^2$ /NDF: 4.7/9

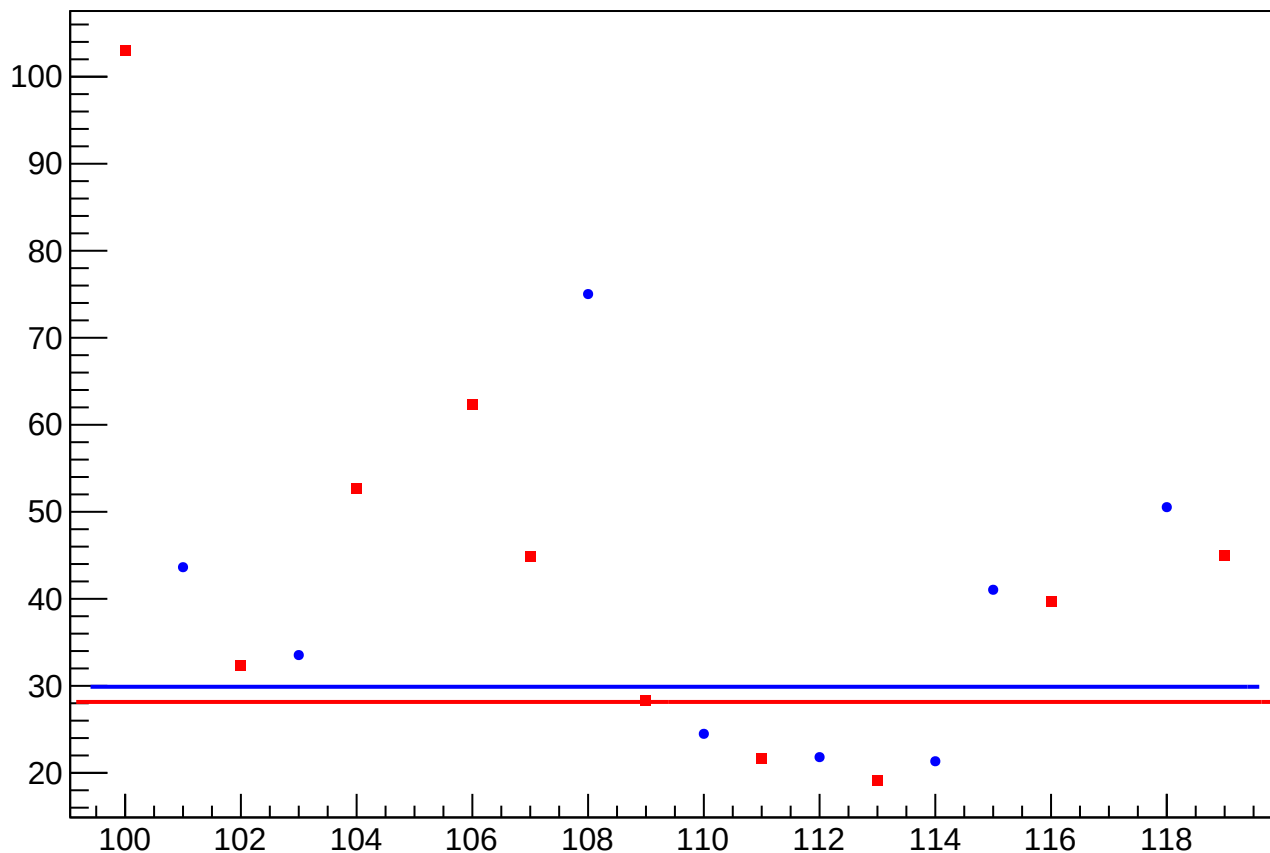
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.012  $\chi^2$ /NDF: 13.9/17

- 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: 29.895+/-0.013  $\chi^2/\text{NDF}$ : 767085.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.151+/-0.011  $\chi^2/\text{NDF}$ : 960409.0/9

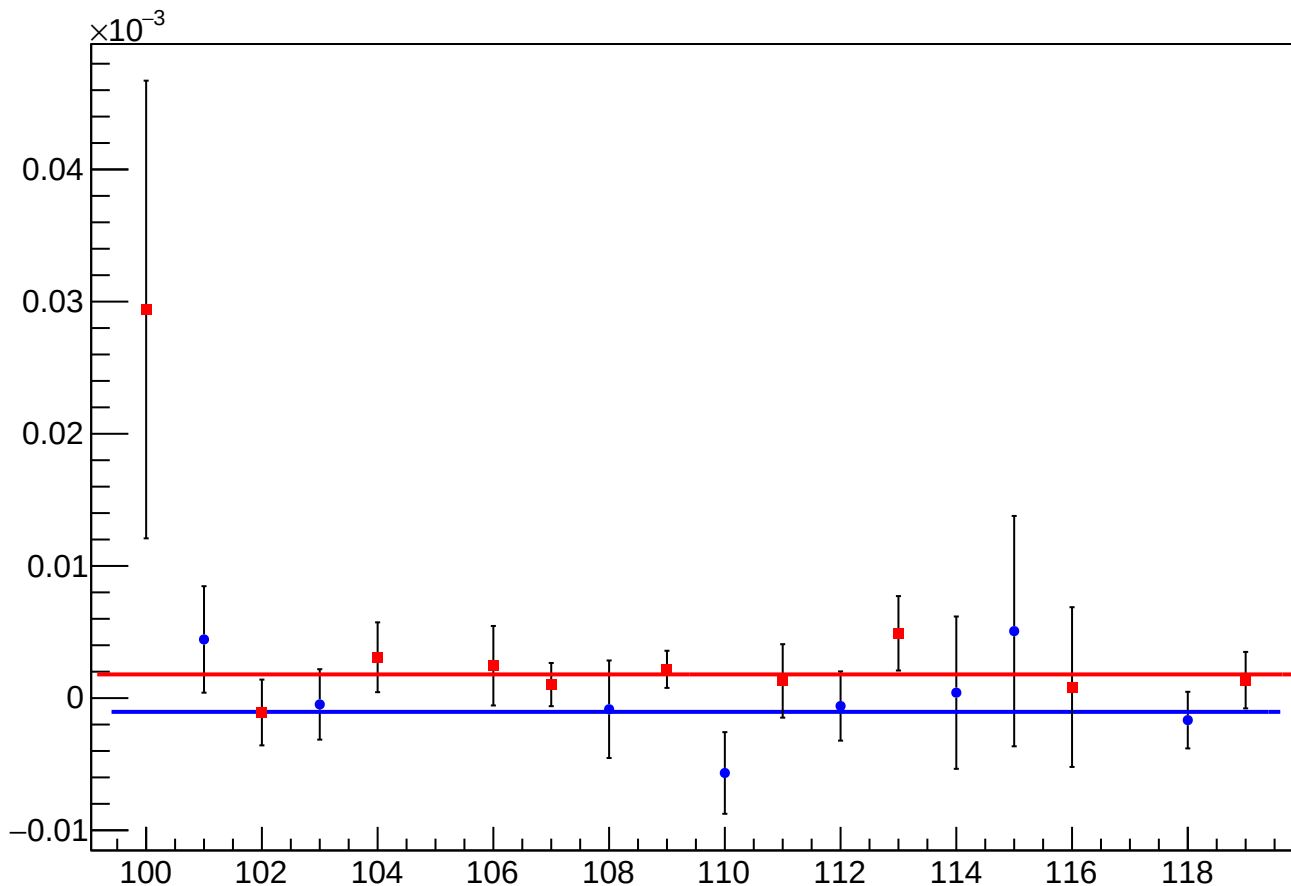
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.881+/-0.008  $\chi^2/\text{NDF}$ : 1738052.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 4.8/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 5.8/9

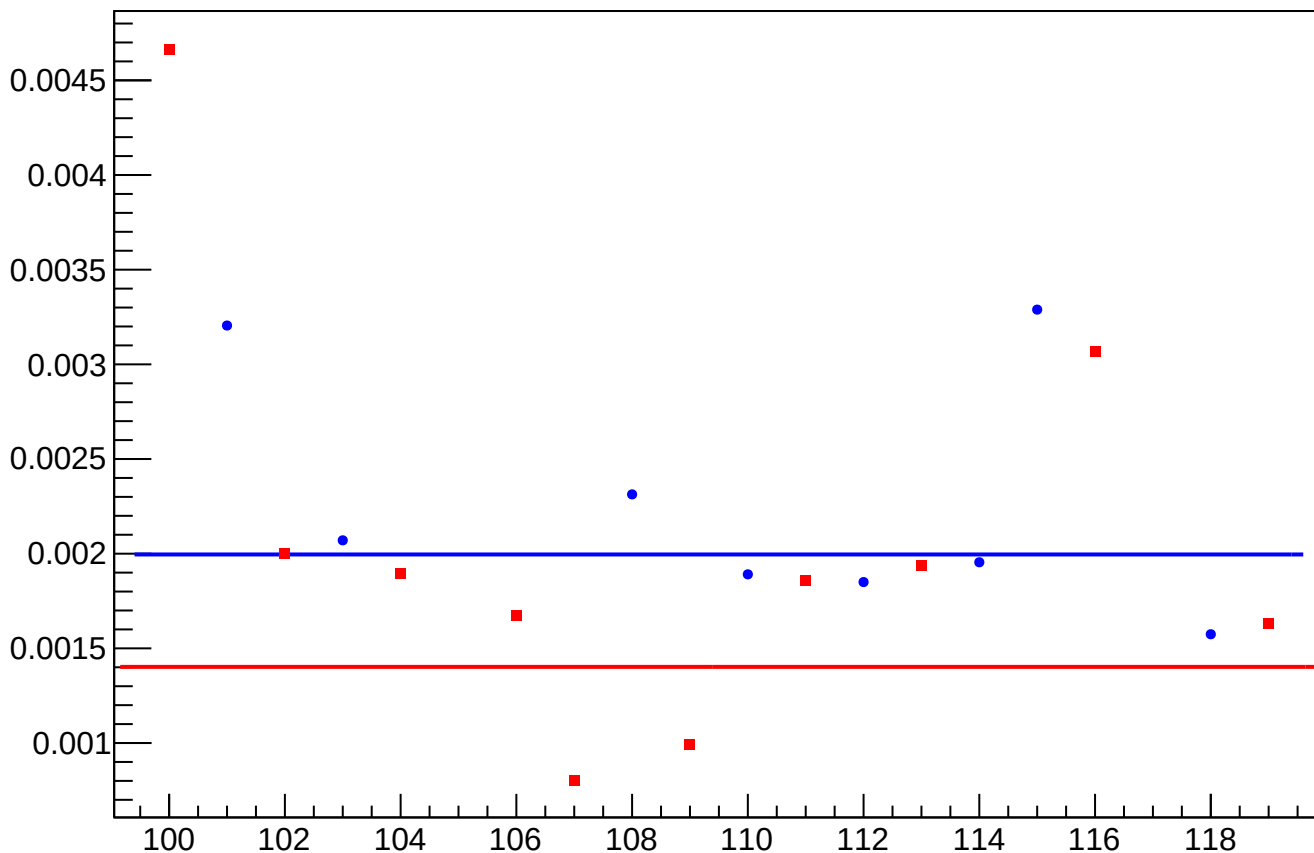
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 15.0/17

- sign 0.000+/-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: 326602.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 1014326.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

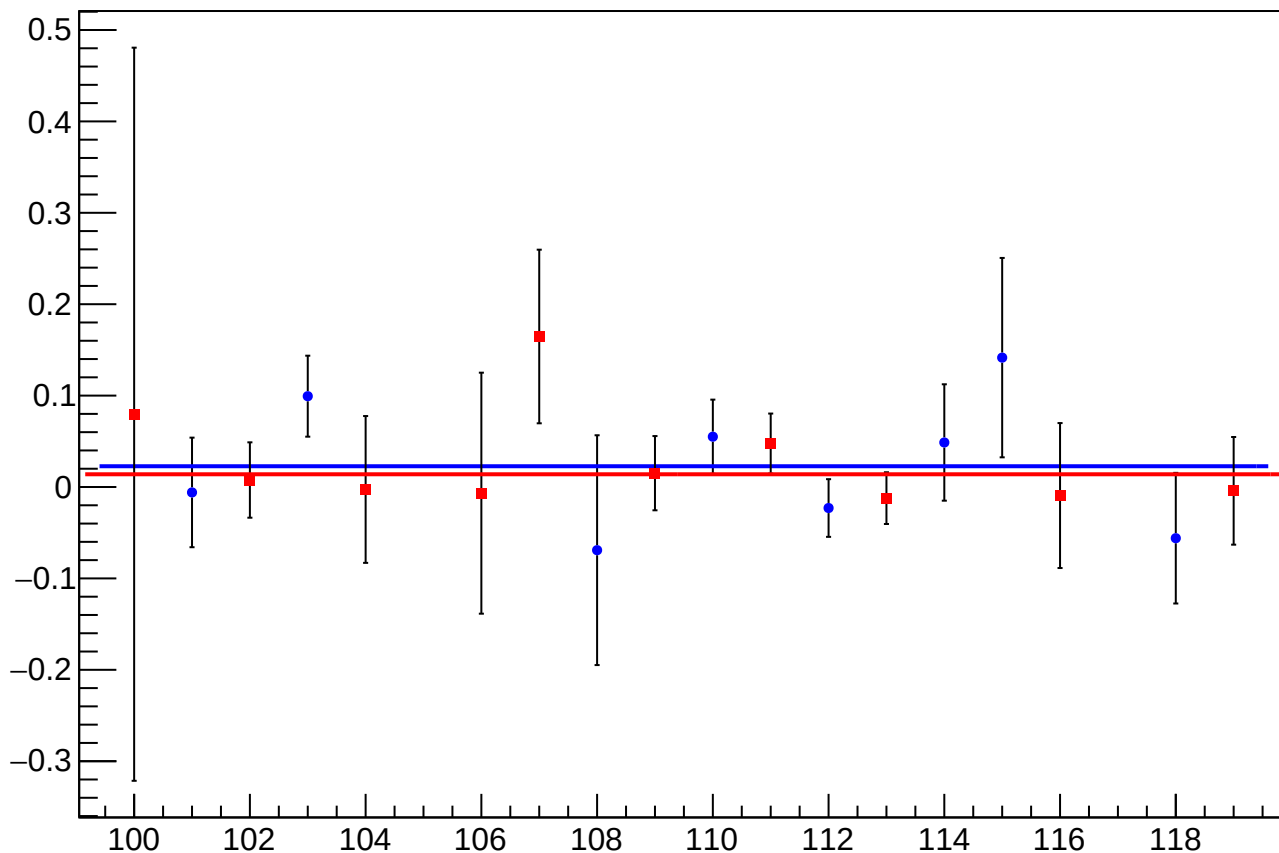
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 1727414.5/17

- 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: 0.023+/-0.018  $\chi^2/\text{NDF}$ : 9.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.016  $\chi^2/\text{NDF}$ : 4.7/9

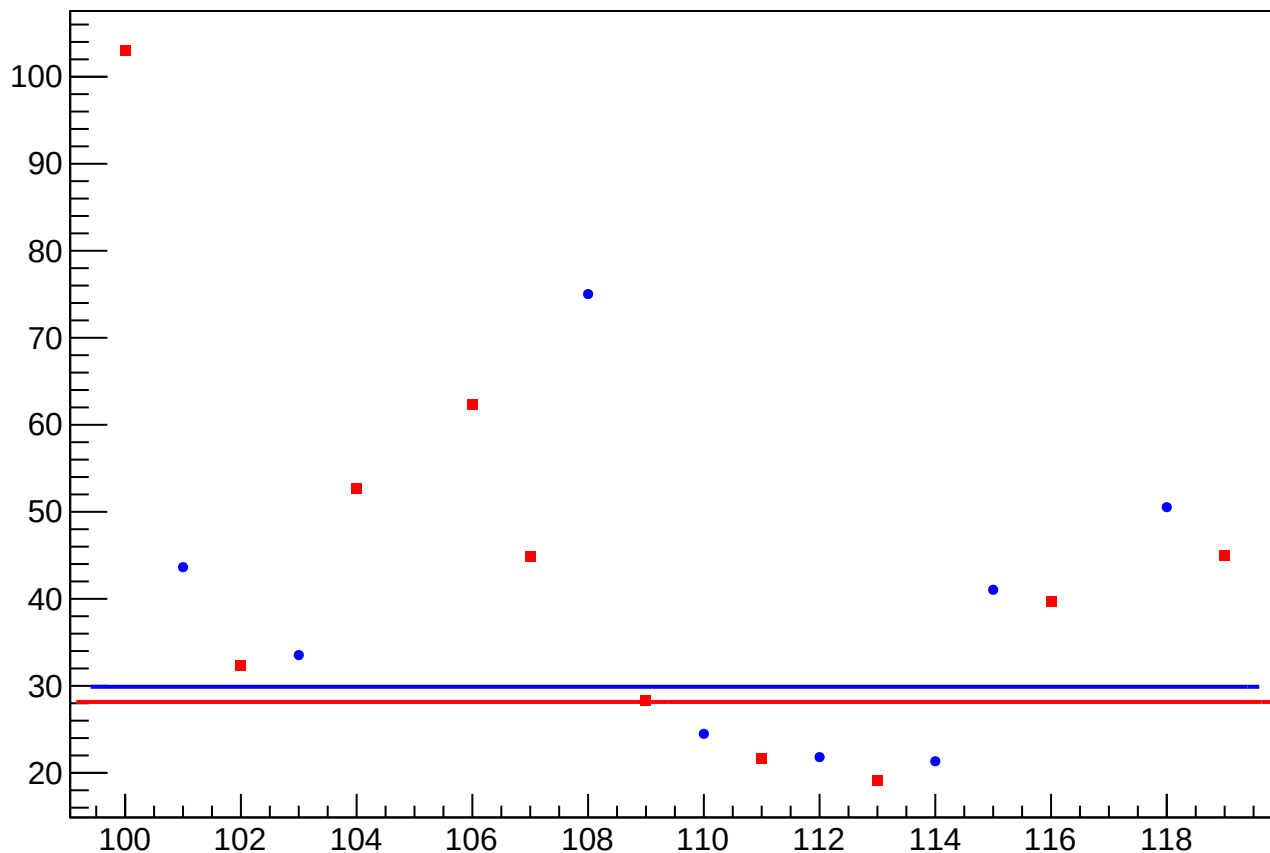
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.018+/-0.012  $\chi^2/\text{NDF}$ : 13.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 29.895+/-0.013  $\chi^2/\text{NDF}$ : 767088.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.152+/-0.011  $\chi^2/\text{NDF}$ : 960401.4/9

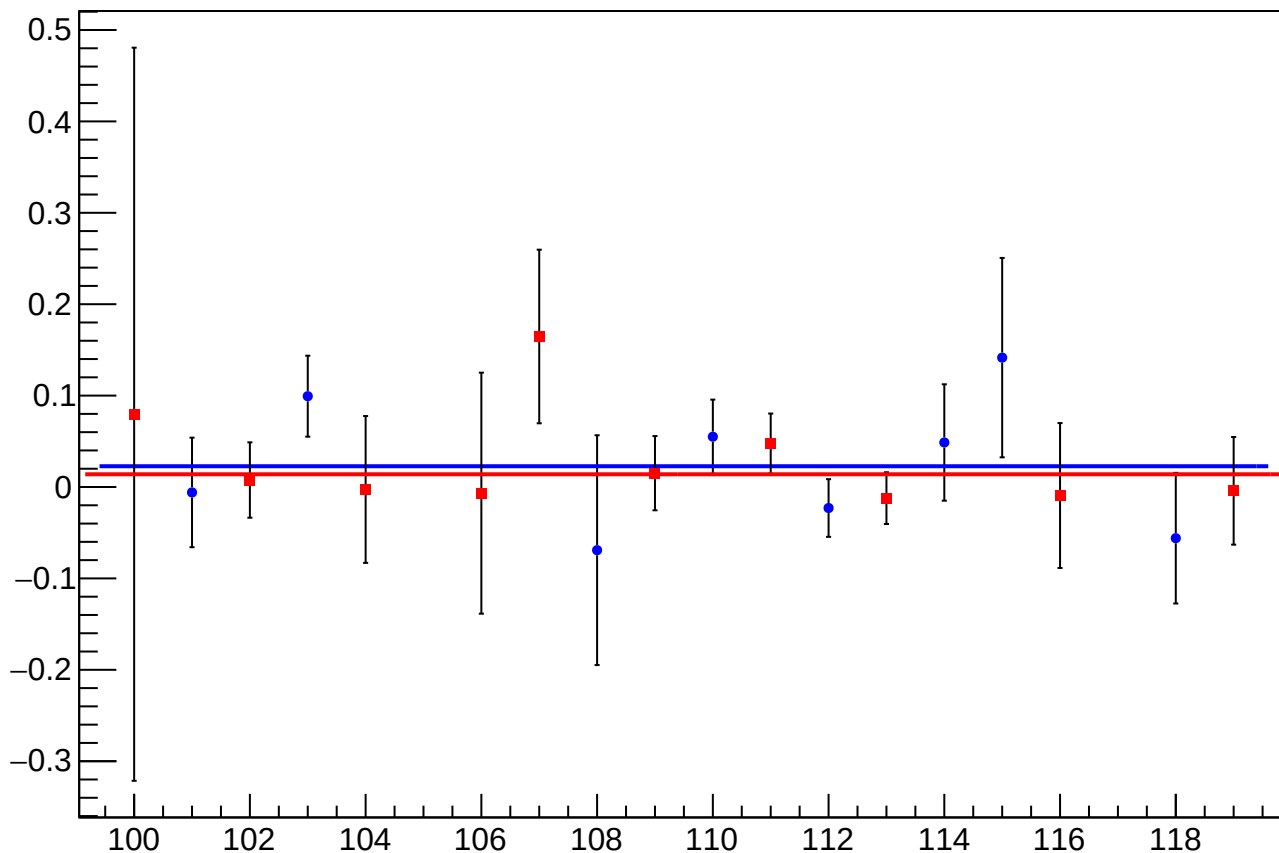
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.882+/-0.008  $\chi^2/\text{NDF}$ : 1738048.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.023+/-0.018  $\chi^2/\text{NDF}$ : 9.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.016  $\chi^2/\text{NDF}$ : 4.7/9

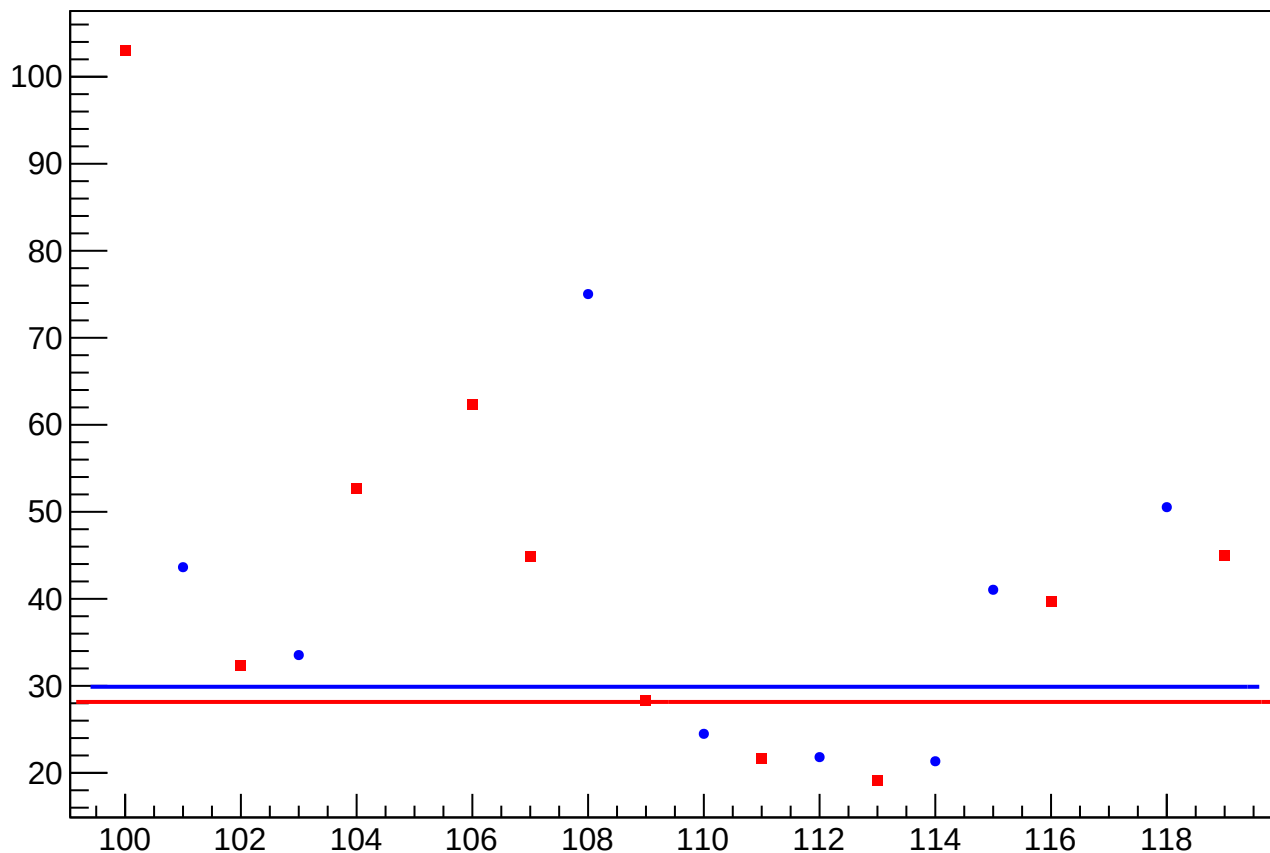
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.018+/-0.012  $\chi^2/\text{NDF}$ : 13.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 29.895+/-0.013  $\chi^2/\text{NDF}$ : 767088.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.152+/-0.011  $\chi^2/\text{NDF}$ : 960401.4/9

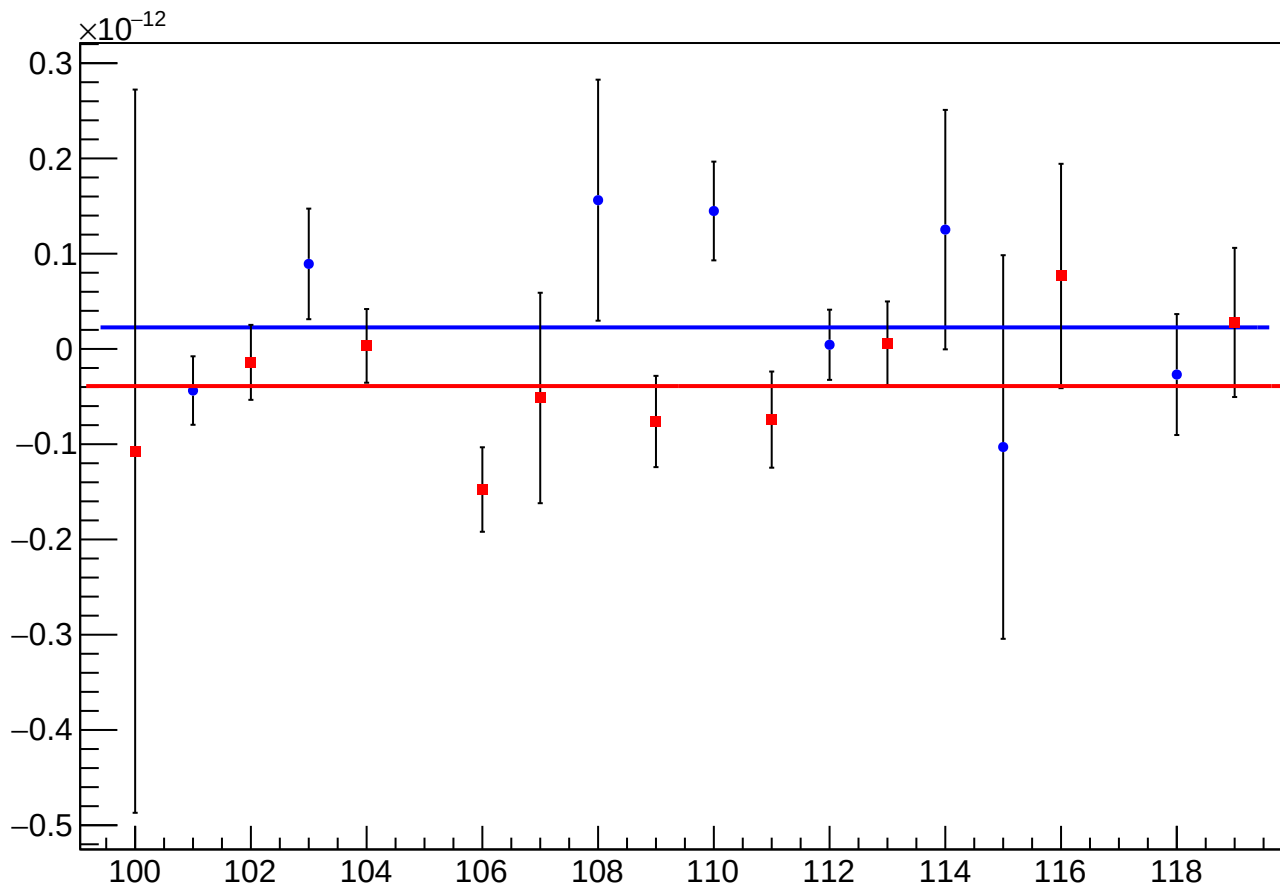
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.882+/-0.008  $\chi^2/\text{NDF}$ : 1738048.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.5/9

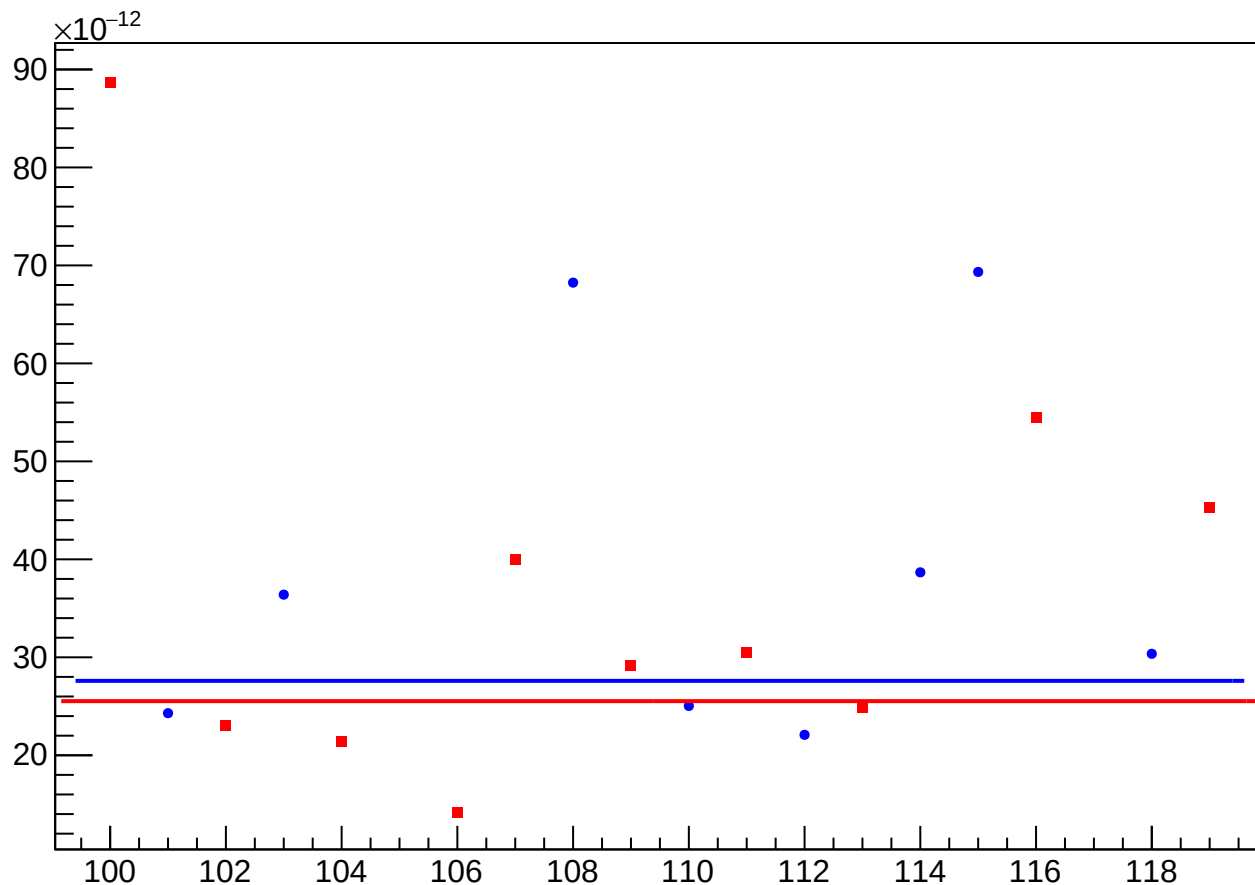
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 30.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 424130.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 531674.8/9

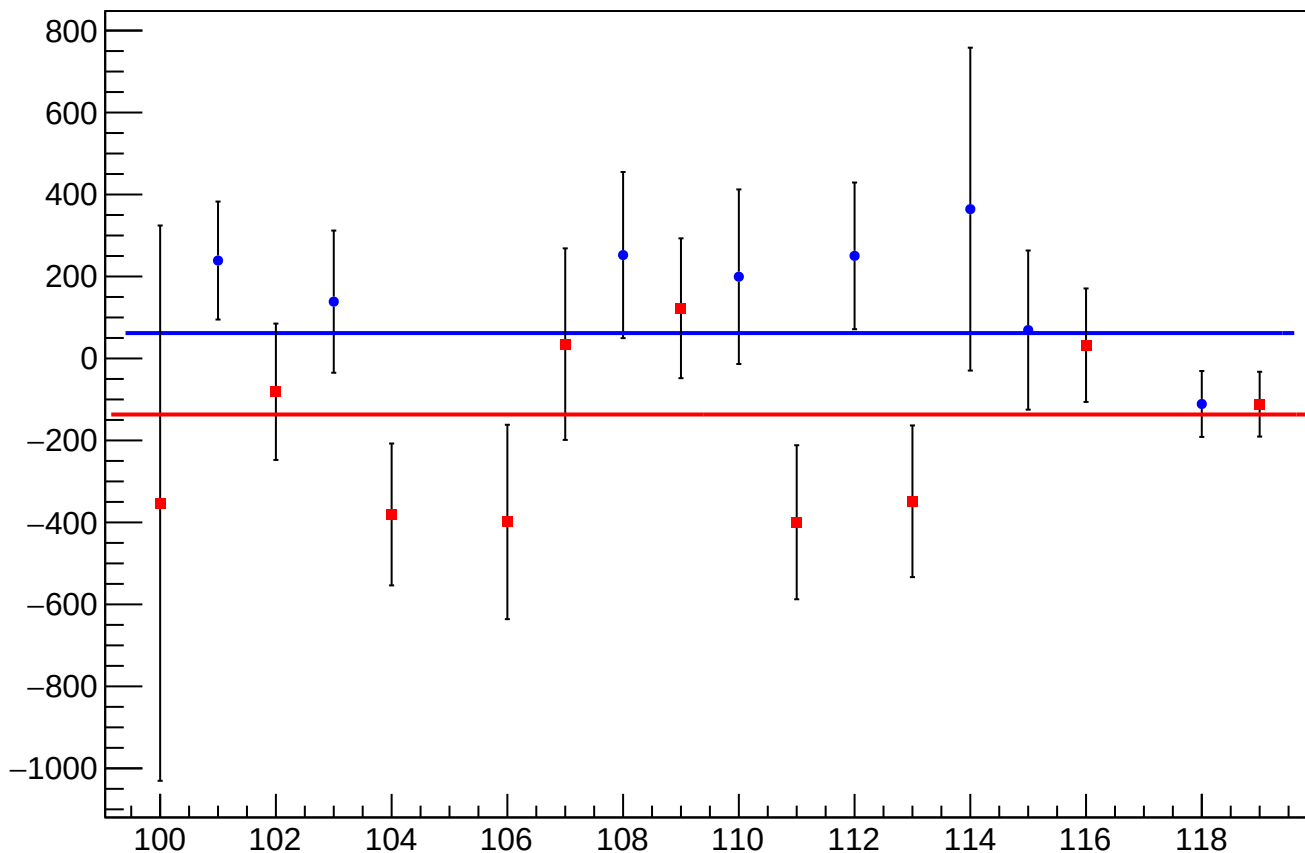
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 968538.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 61.933+/-53.685  $\chi^2/\text{NDF}$ : 9.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -136.702+/-49.270  $\chi^2/\text{NDF}$ : 11.1/9

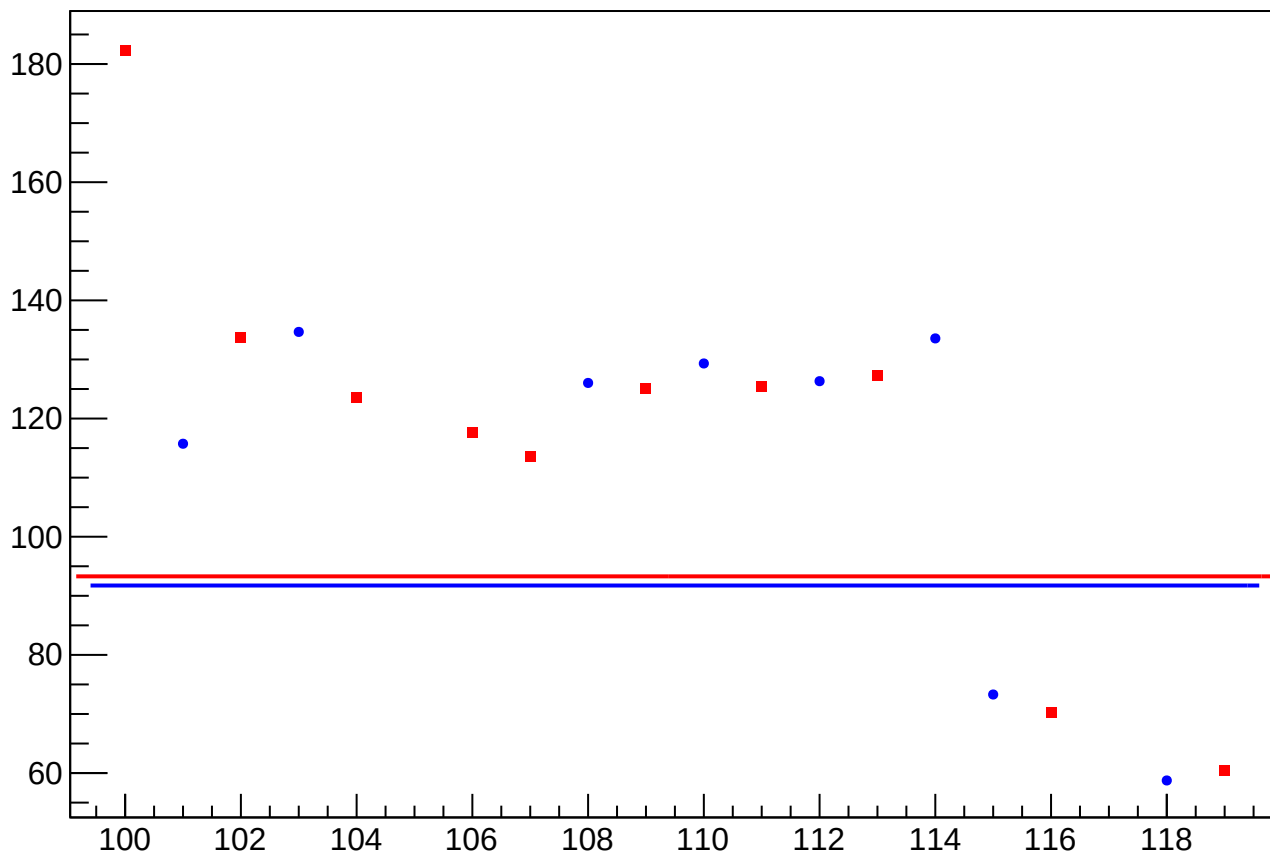
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -45.887+/-36.300  $\chi^2/\text{NDF}$ : 27.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 91.742 $\pm$ 0.038  $\chi^2$ /NDF: 750009.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 93.293 $\pm$ 0.035  $\chi^2$ /NDF: 847151.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

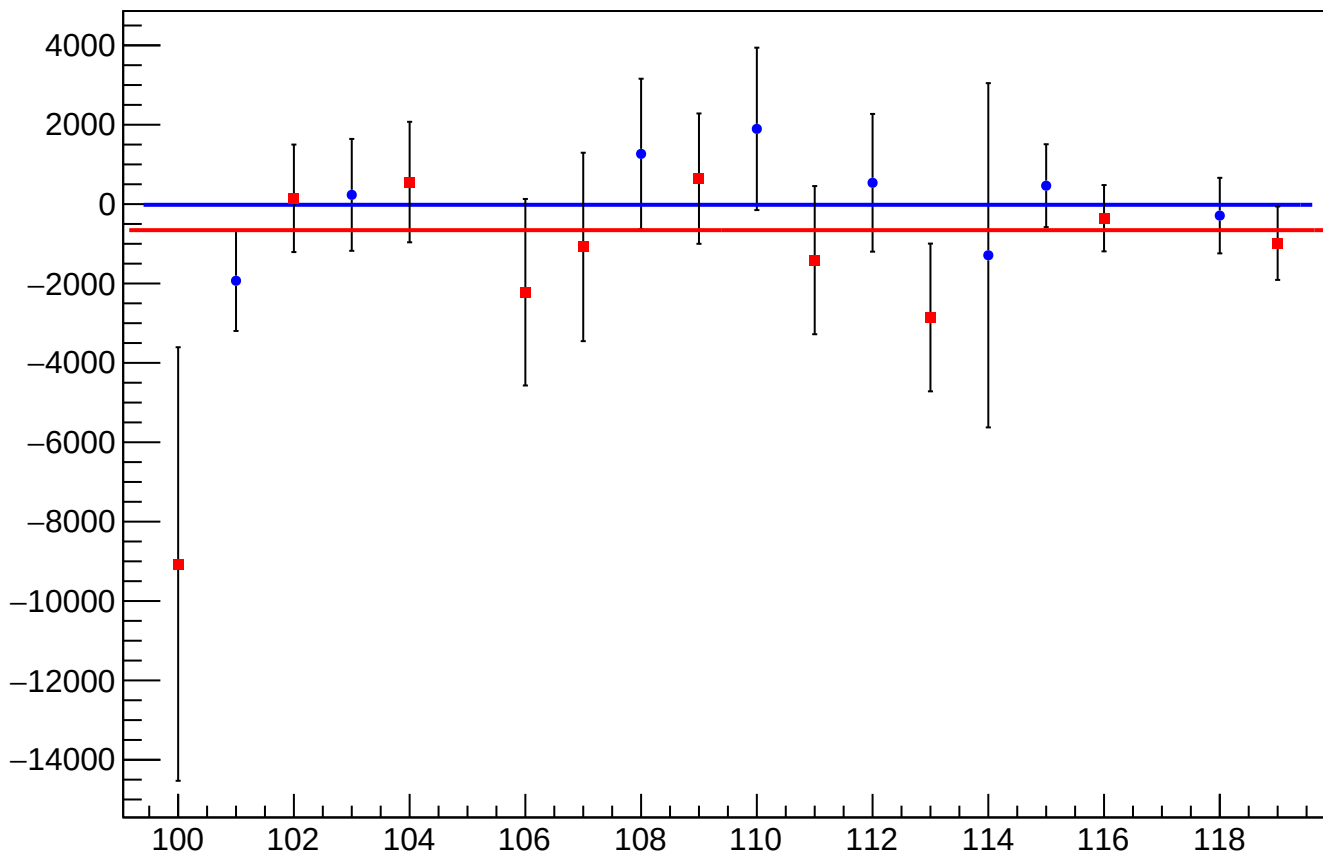
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 92.584 $\pm$ 0.026  $\chi^2$ /NDF: 1598066.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1526\_avg\_reg\_correction\_mean vs Slug



Right In: -17.232 $\pm$ 496.762  $\chi^2$ /NDF: 4.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -656.075 $\pm$ 450.781  $\chi^2$ /NDF: 6.3/9

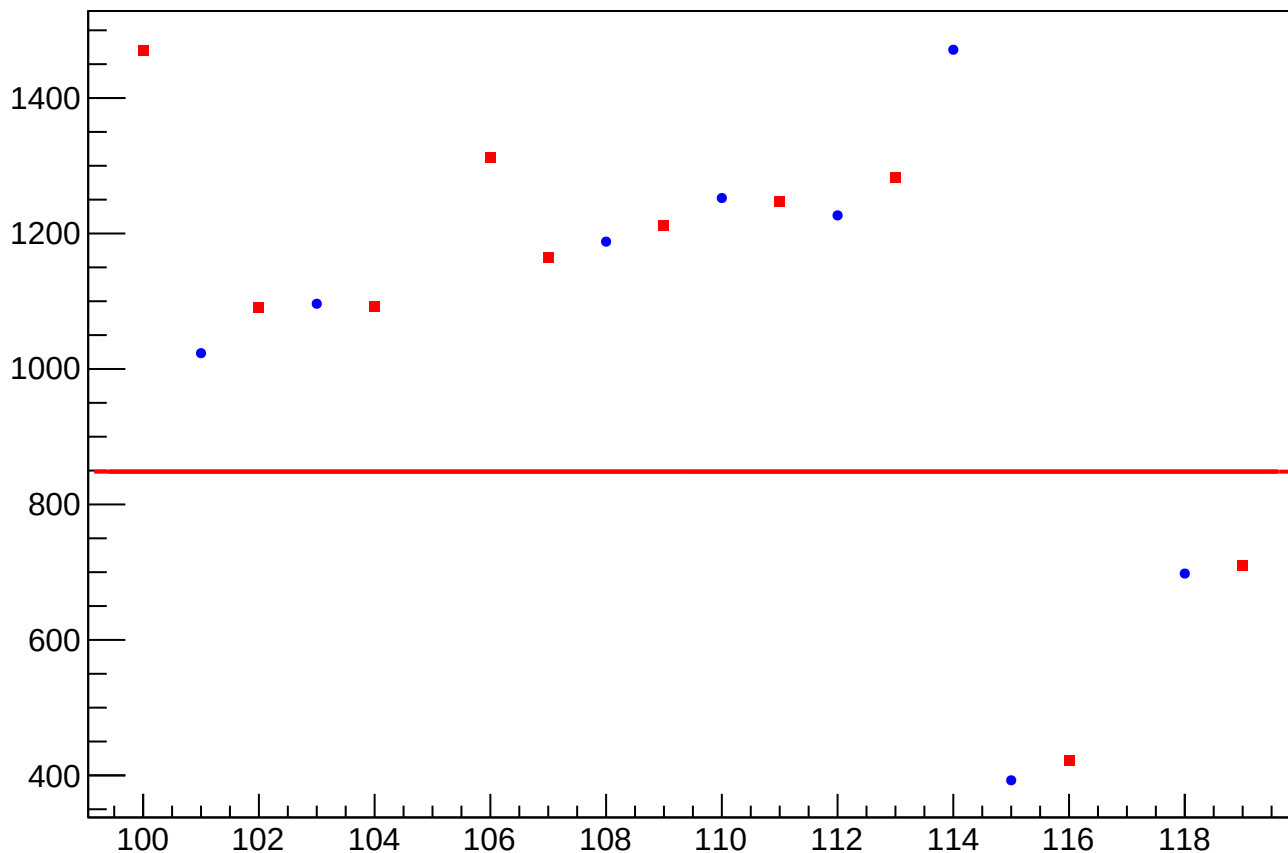
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -367.581 $\pm$ 333.825  $\chi^2$ /NDF: 11.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_reg\_correction\_rms vs Slug



Right In: 848.561+/-0.351  $\chi^2/\text{NDF}$ : 809319.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 848.412+/-0.319  $\chi^2/\text{NDF}$ : 1120319.0/9

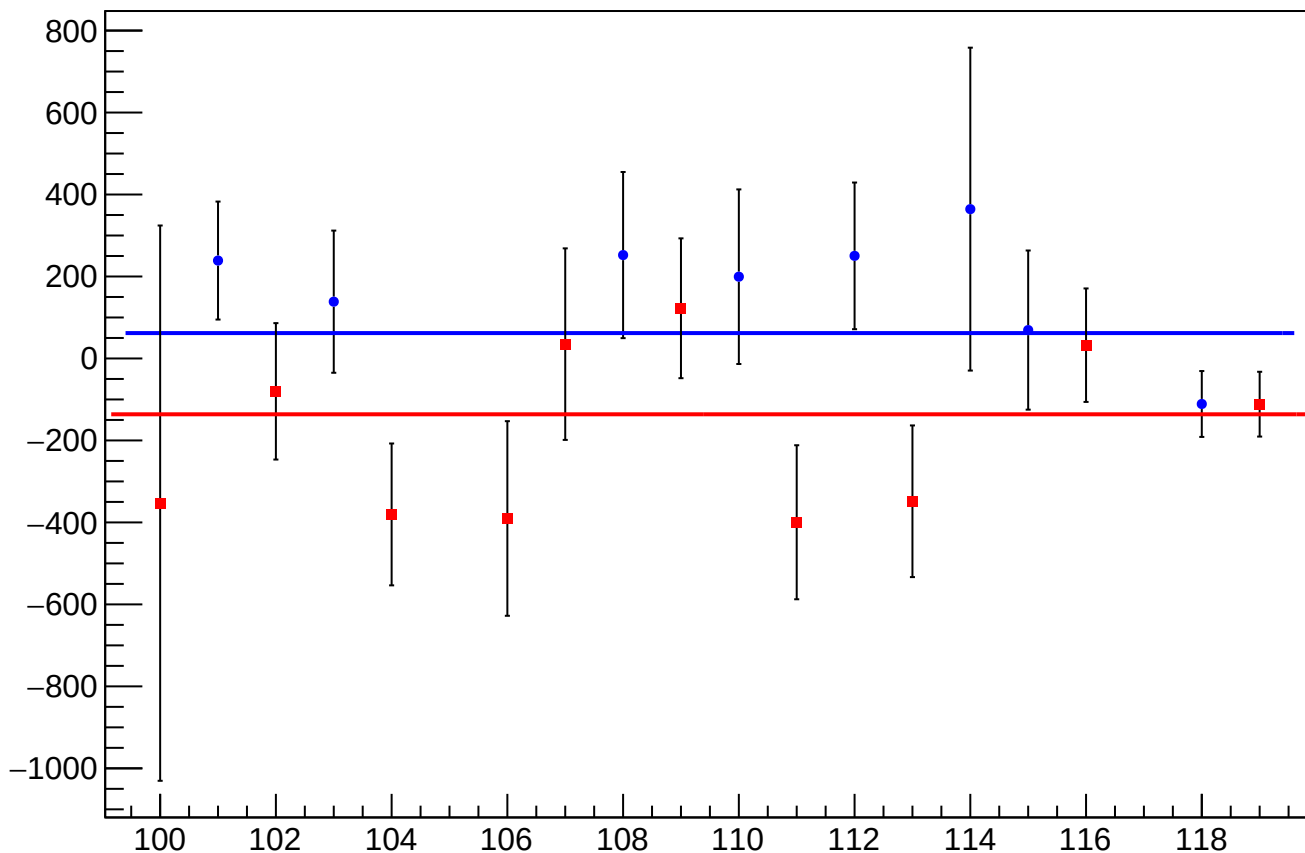
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 848.479+/-0.236  $\chi^2/\text{NDF}$ : 1929638.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 61.929+/-53.685  $\chi^2/\text{NDF}$ : 9.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -136.210+/-49.275  $\chi^2/\text{NDF}$ : 11.1/9

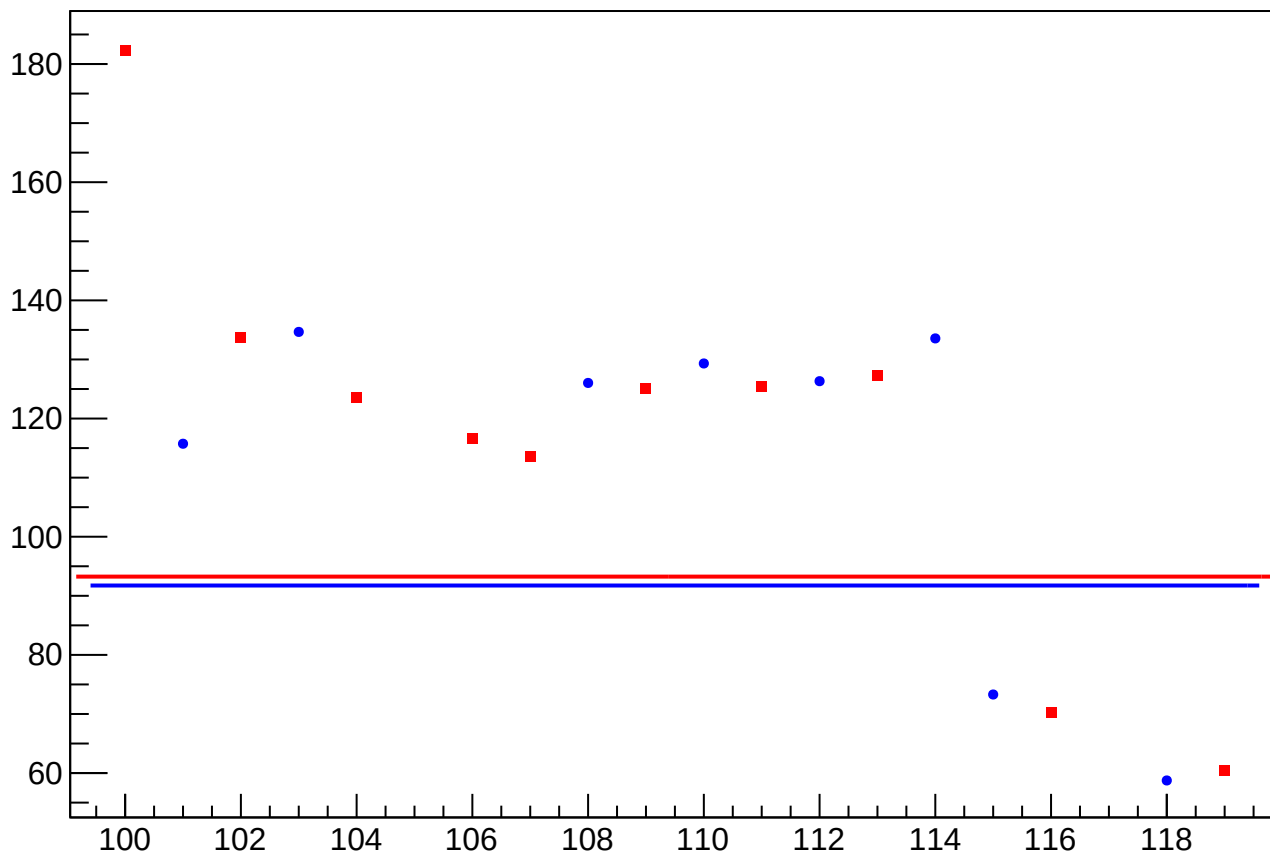
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -45.612+/-36.302  $\chi^2/\text{NDF}$ : 27.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 91.742 $\pm$ 0.032  $\chi^2$ /NDF: 750011.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 93.249 $\pm$ 0.035  $\chi^2$ /NDF: 845675.1/9

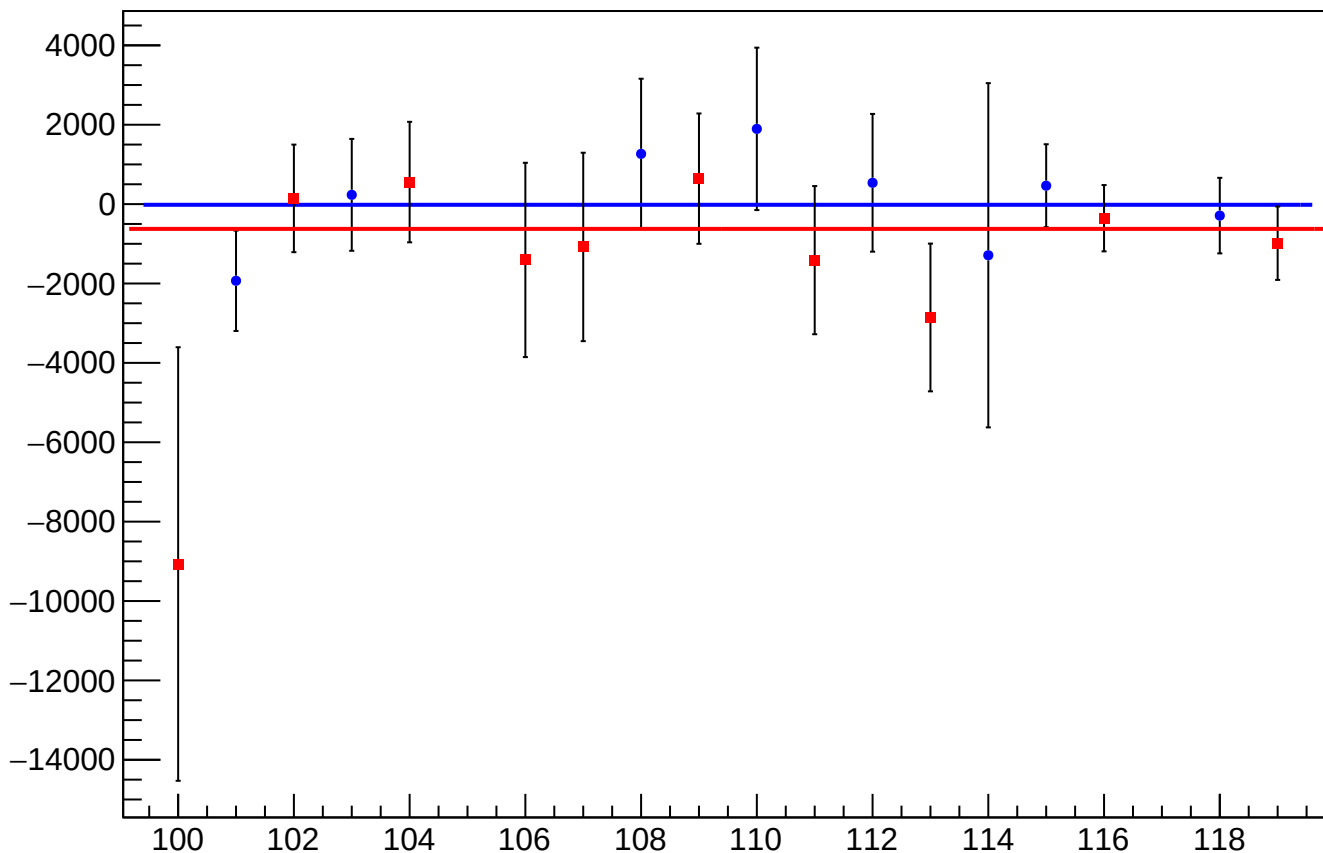
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 92.560 $\pm$ 0.026  $\chi^2$ /NDF: 1596541.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_cor\_correction\_mean vs Slug



Right In: -17.144+/-496.764  $\chi^2/\text{NDF}$ : 4.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -624.248+/-451.470  $\chi^2/\text{NDF}$ : 5.9/9

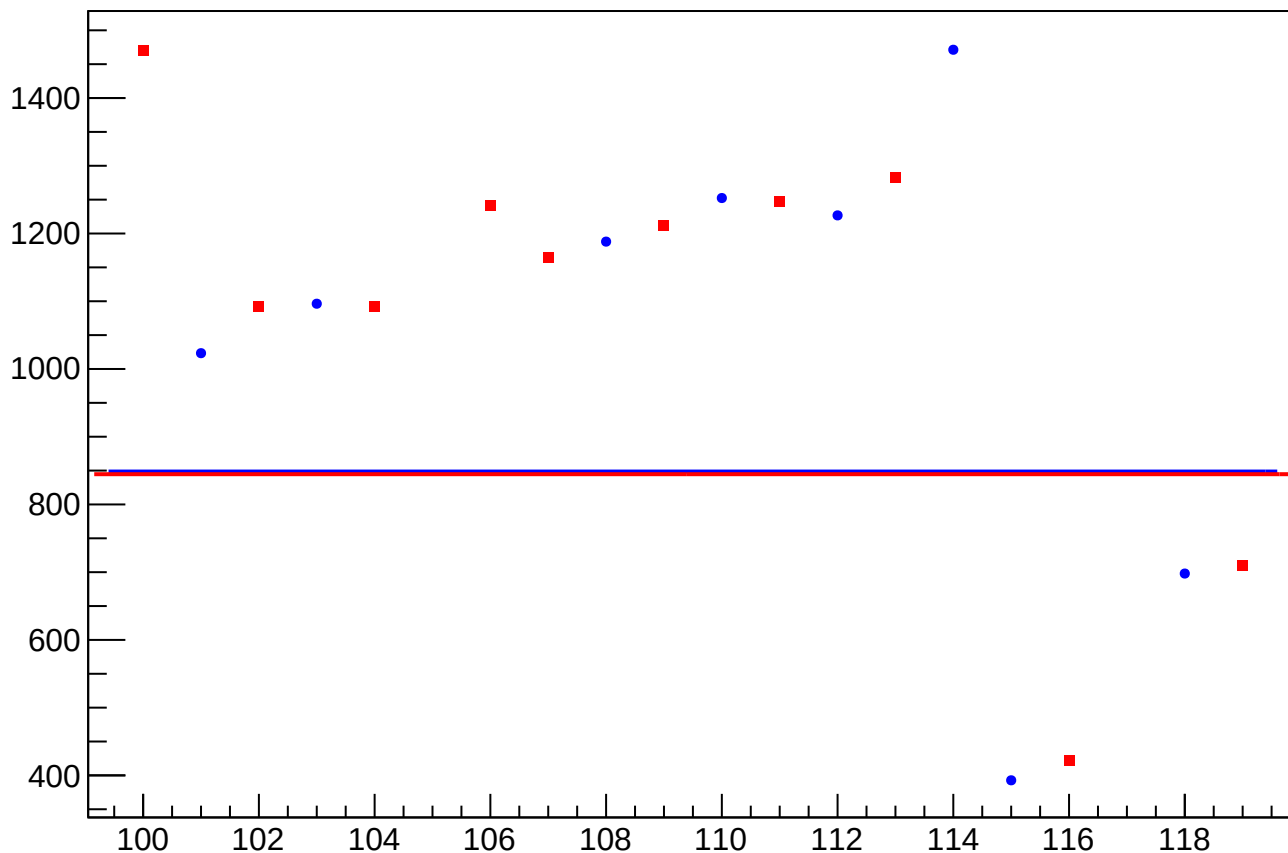
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -349.629+/-334.106  $\chi^2/\text{NDF}$ : 10.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1526\_avg\_cor\_correction\_rms vs Slug



Right In: 848.563 $\pm$ 0.351  $\chi^2$ /NDF: 809351.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 844.663 $\pm$ 0.319  $\chi^2$ /NDF: 1093765.6/9

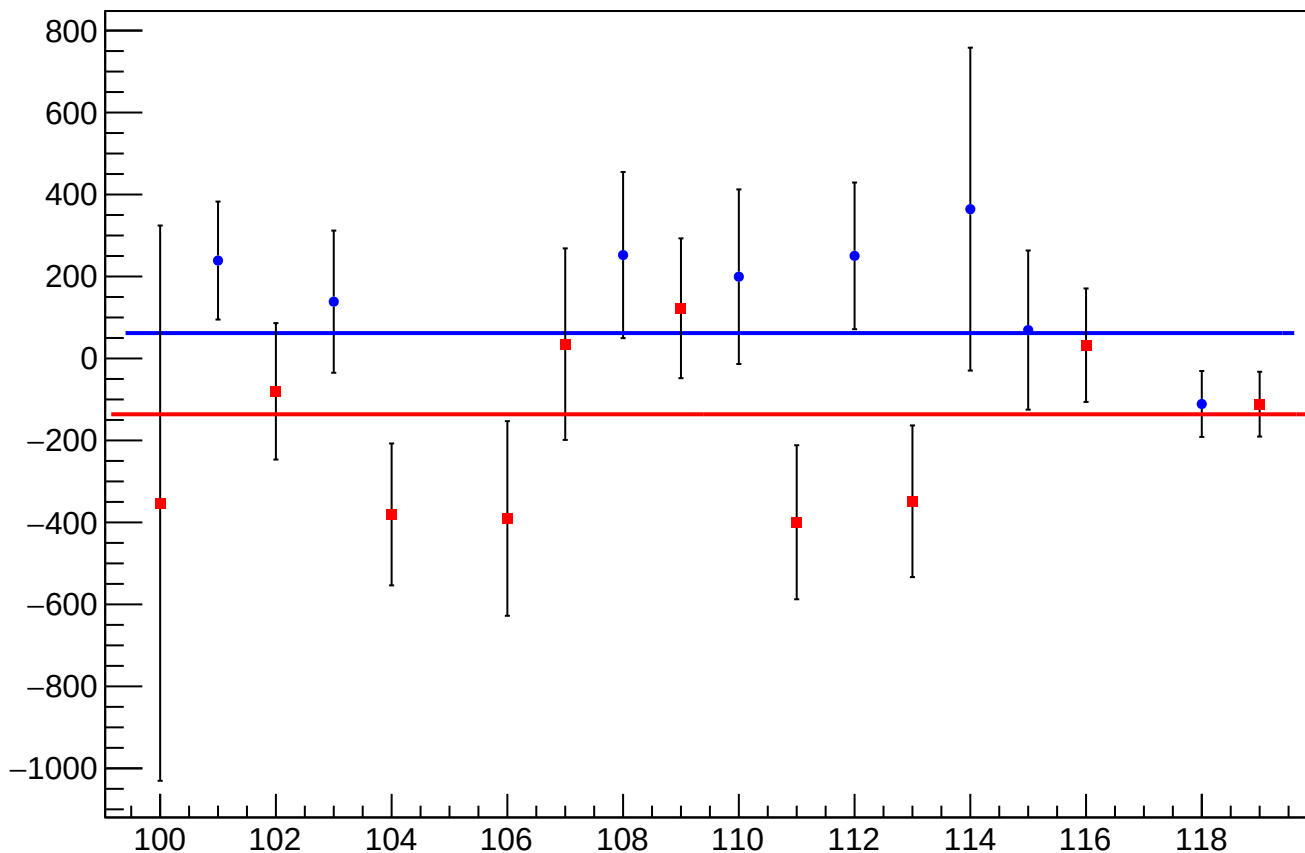
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 846.427 $\pm$ 0.236  $\chi^2$ /NDF: 1903184.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 61.929+/-53.685  $\chi^2/\text{NDF}$ : 9.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -136.210+/-49.275  $\chi^2/\text{NDF}$ : 11.1/9

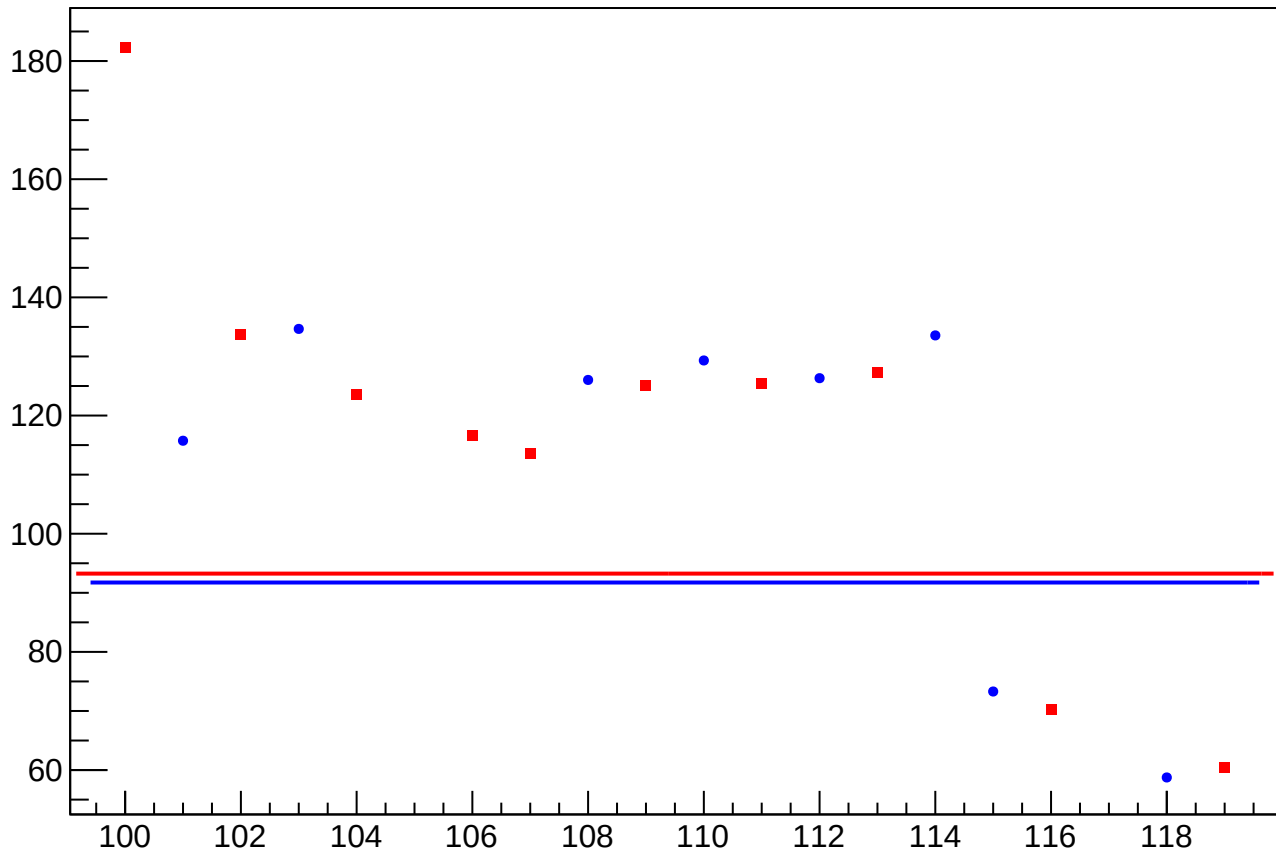
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -45.612+/-36.302  $\chi^2/\text{NDF}$ : 27.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 91.742 $\pm$ 0.038  $\chi^2$ /NDF: 750011.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 93.249 $\pm$ 0.035  $\chi^2$ /NDF: 845675.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

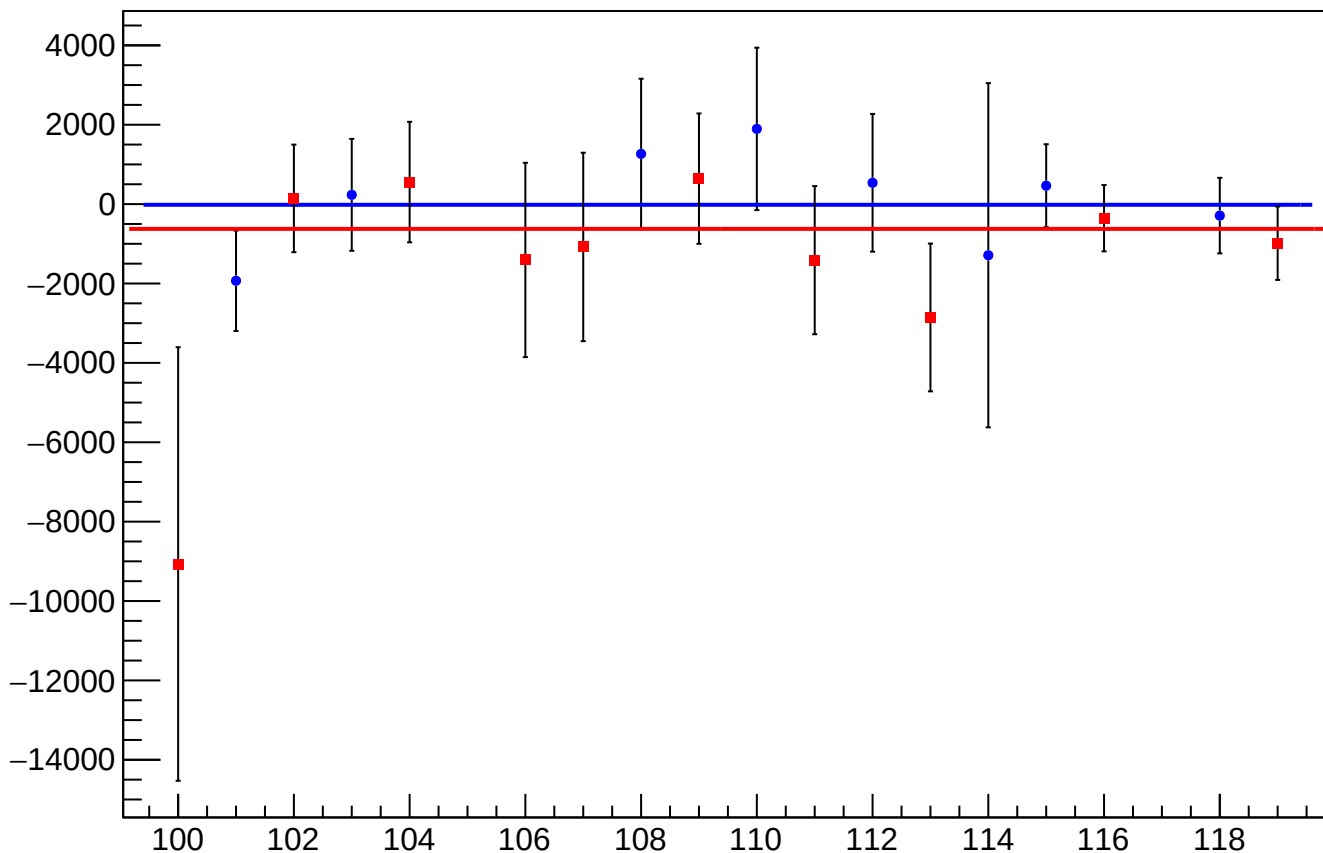
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 92.560 $\pm$ 0.026  $\chi^2$ /NDF: 1596541.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1526\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -17.144+/-496.764  $\chi^2/\text{NDF}$ : 4.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -624.248+/-451.470  $\chi^2/\text{NDF}$ : 5.9/9

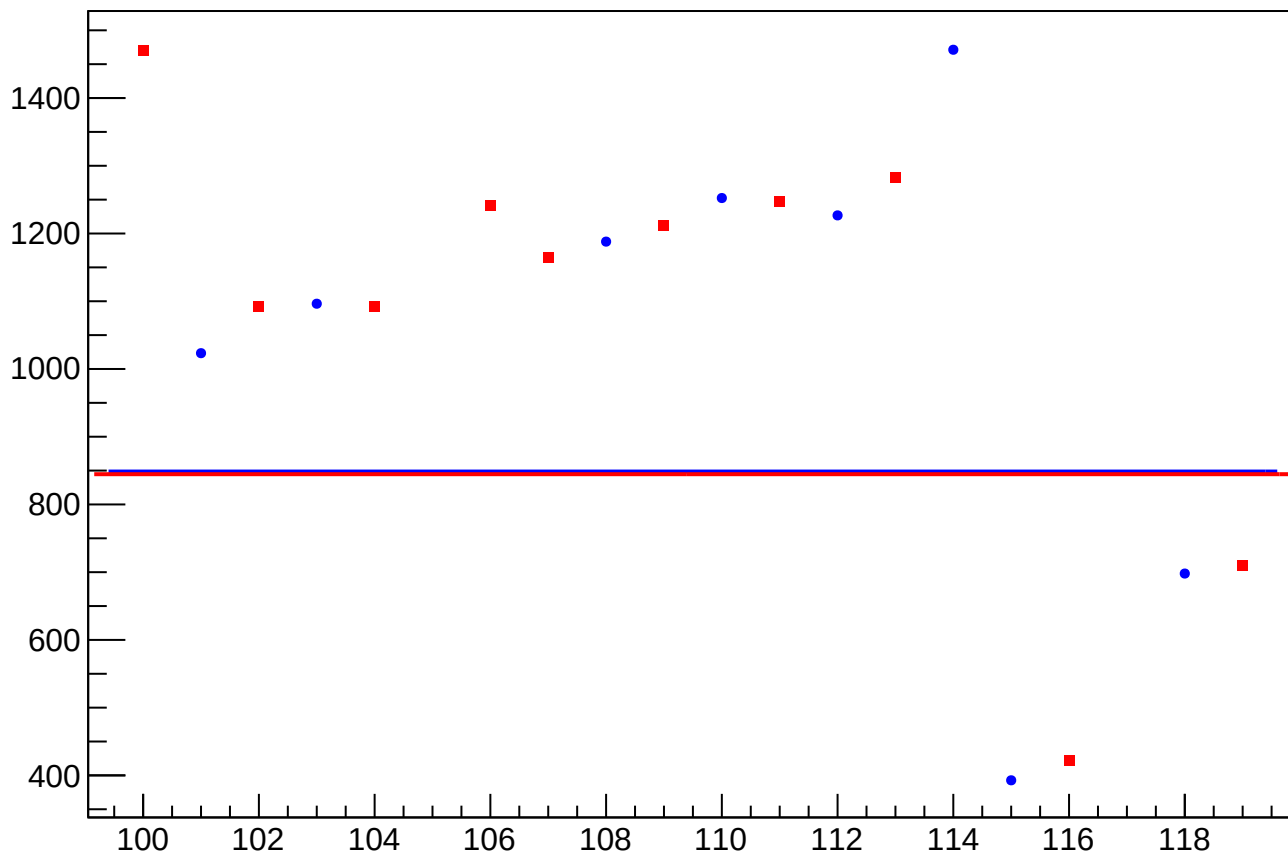
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -349.629+/-334.106  $\chi^2/\text{NDF}$ : 10.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 848.563 $\pm$ 0.351  $\chi^2$ /NDF: 809351.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 844.663 $\pm$ 0.319  $\chi^2$ /NDF: 1093765.6/9

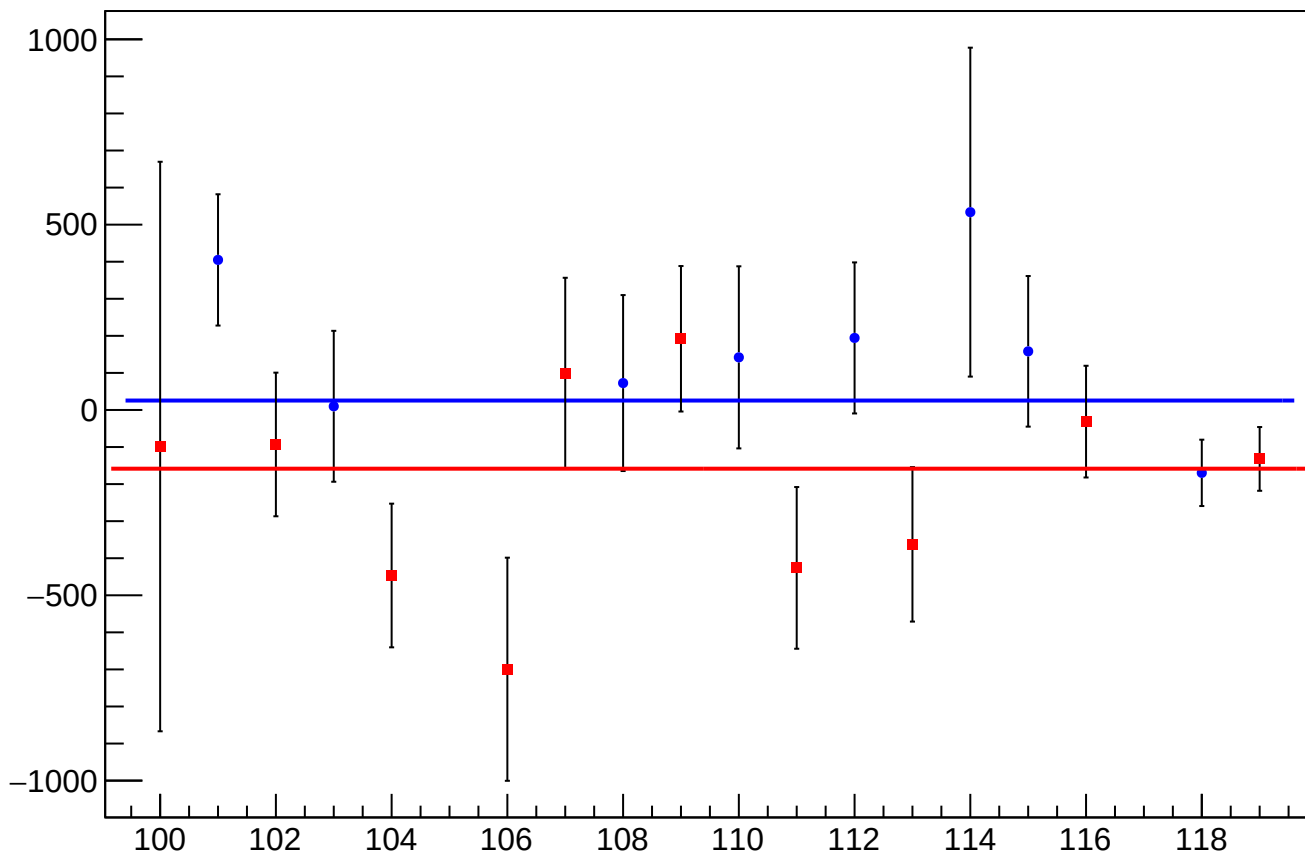
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 846.427 $\pm$ 0.236  $\chi^2$ /NDF: 1903184.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 25.440+/-61.025  $\chi^2/\text{NDF}$ : 12.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -158.426+/-55.027  $\chi^2/\text{NDF}$ : 13.0/9

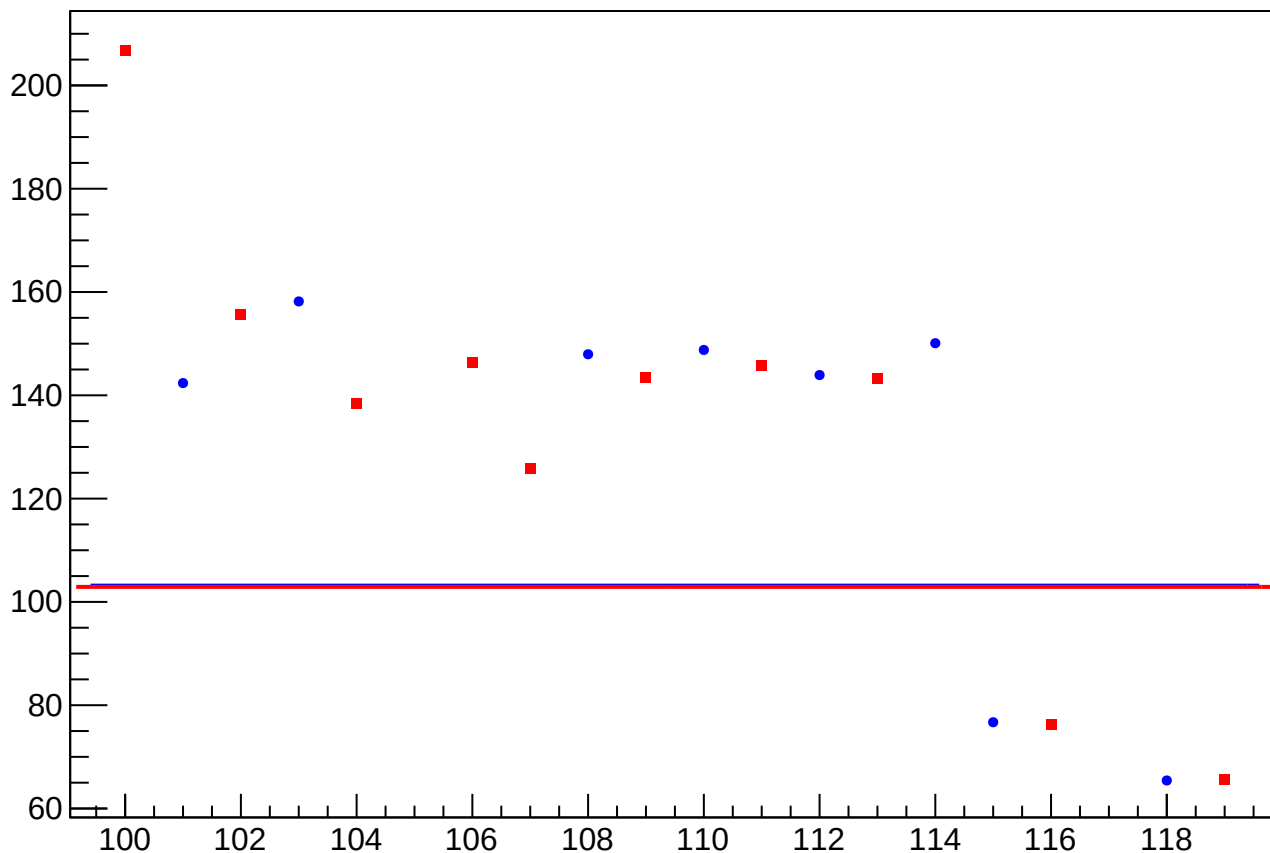
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -75.970+/-40.867  $\chi^2/\text{NDF}$ : 30.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 103.152+/-0.043  $\chi^2/\text{NDF}$ : 876033.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 102.911+/-0.039  $\chi^2/\text{NDF}$ : 986904.6/9

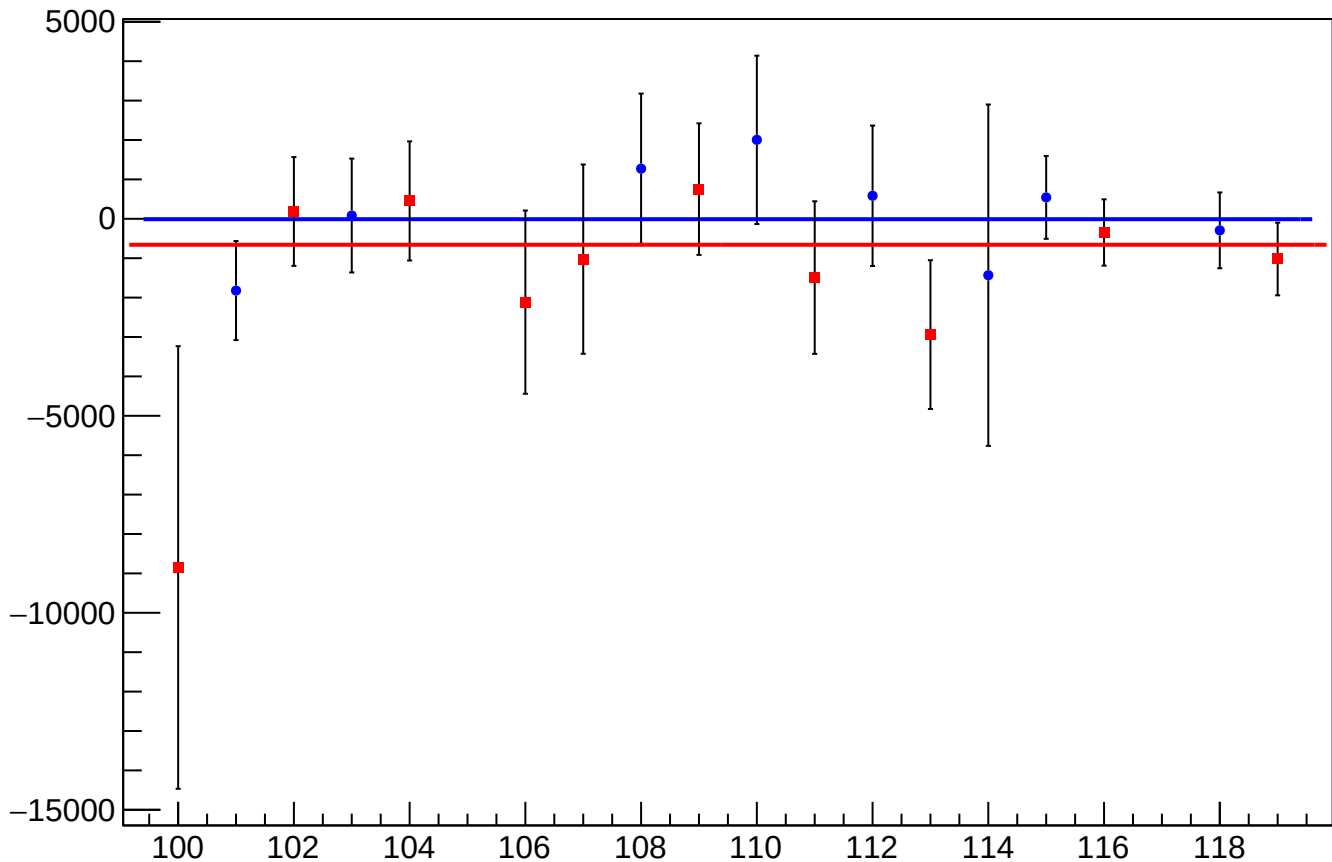
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 103.019+/-0.029  $\chi^2/\text{NDF}$ : 1862955.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_dit\_correction\_mean vs Slug



Right In: -10.253 $\pm$ 502.487  $\chi^2$ /NDF: 4.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -659.299 $\pm$ 454.283  $\chi^2$ /NDF: 6.1/9

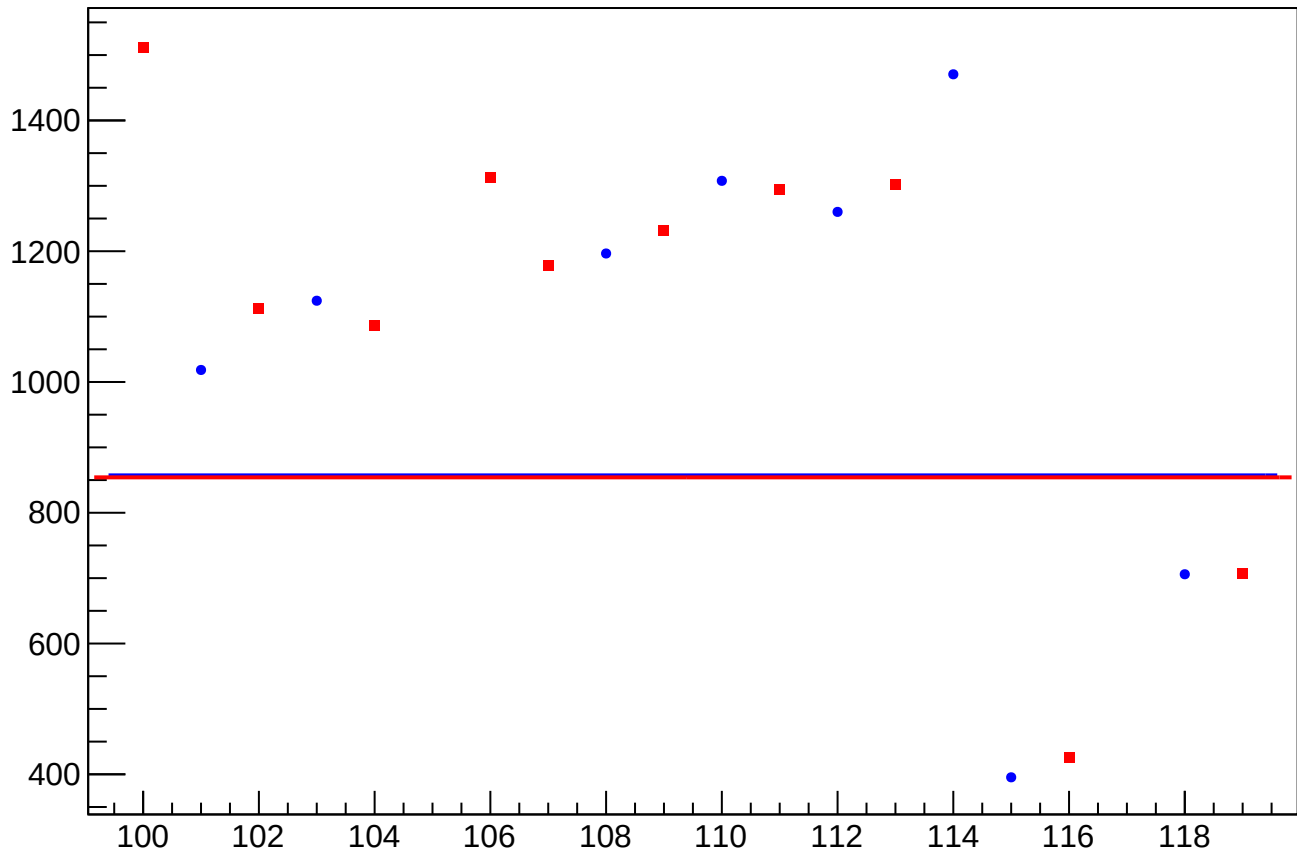
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -367.393 $\pm$ 336.983  $\chi^2$ /NDF: 11.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1526\_avg\_dit\_correction\_rms vs Slug



Right In: 857.150+/-0.355  $\chi^2/\text{NDF}$ : 831627.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 854.143+/-0.321  $\chi^2/\text{NDF}$ : 1147317.9/9

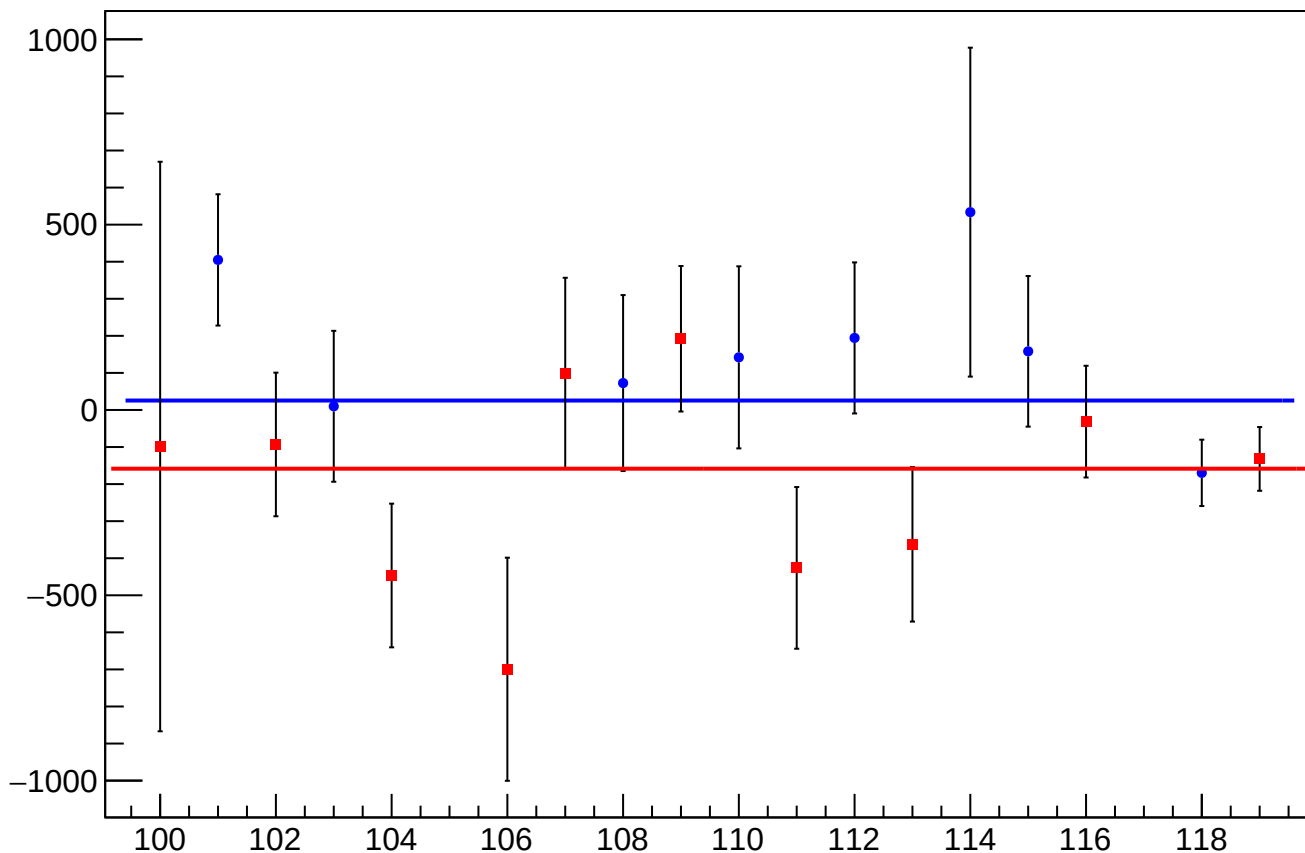
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 855.496+/-0.238  $\chi^2/\text{NDF}$ : 1978984.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 25.440+/-61.025  $\chi^2/\text{NDF}$ : 12.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -158.426+/-55.027  $\chi^2/\text{NDF}$ : 13.0/9

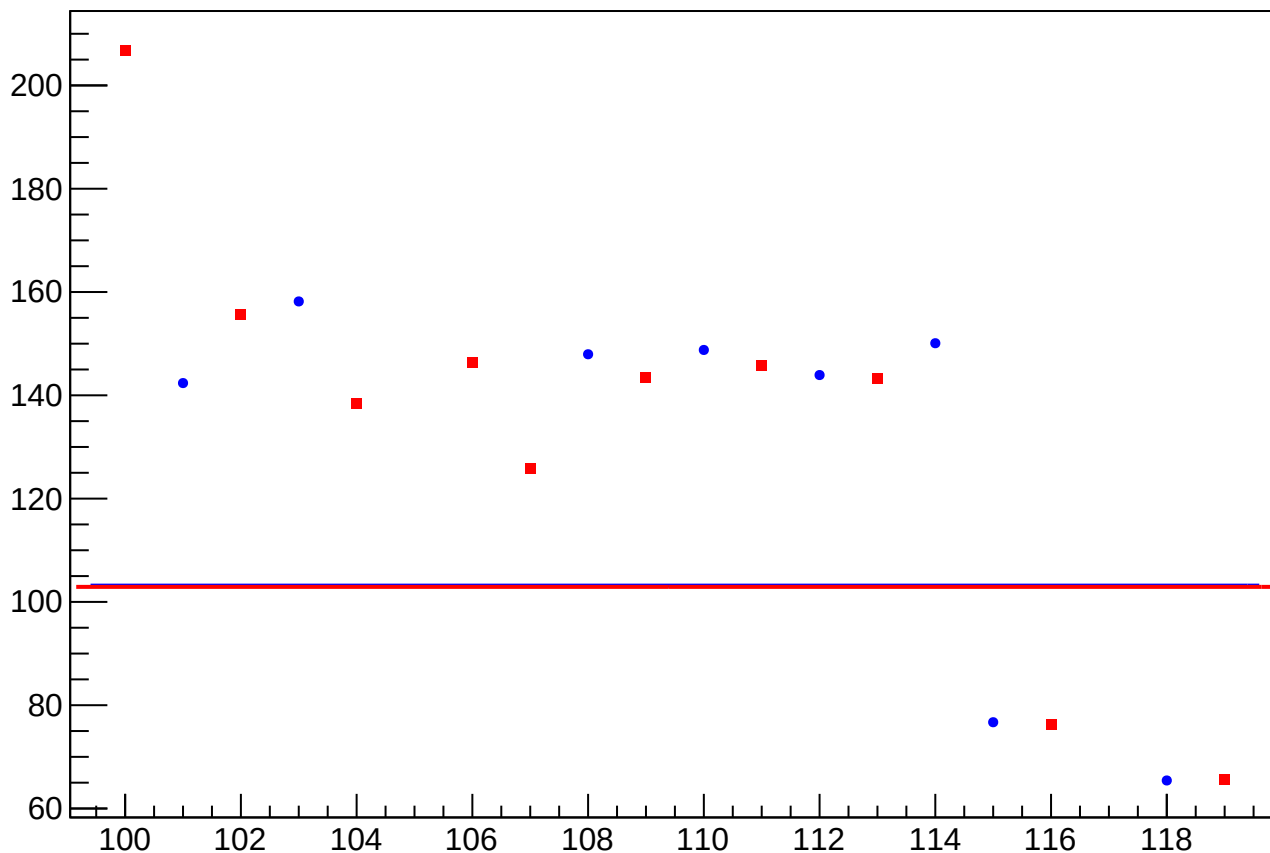
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -75.970+/-40.867  $\chi^2/\text{NDF}$ : 30.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 103.152+/-0.043  $\chi^2/\text{NDF}$ : 876021.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 102.911+/-0.039  $\chi^2/\text{NDF}$ : 986888.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

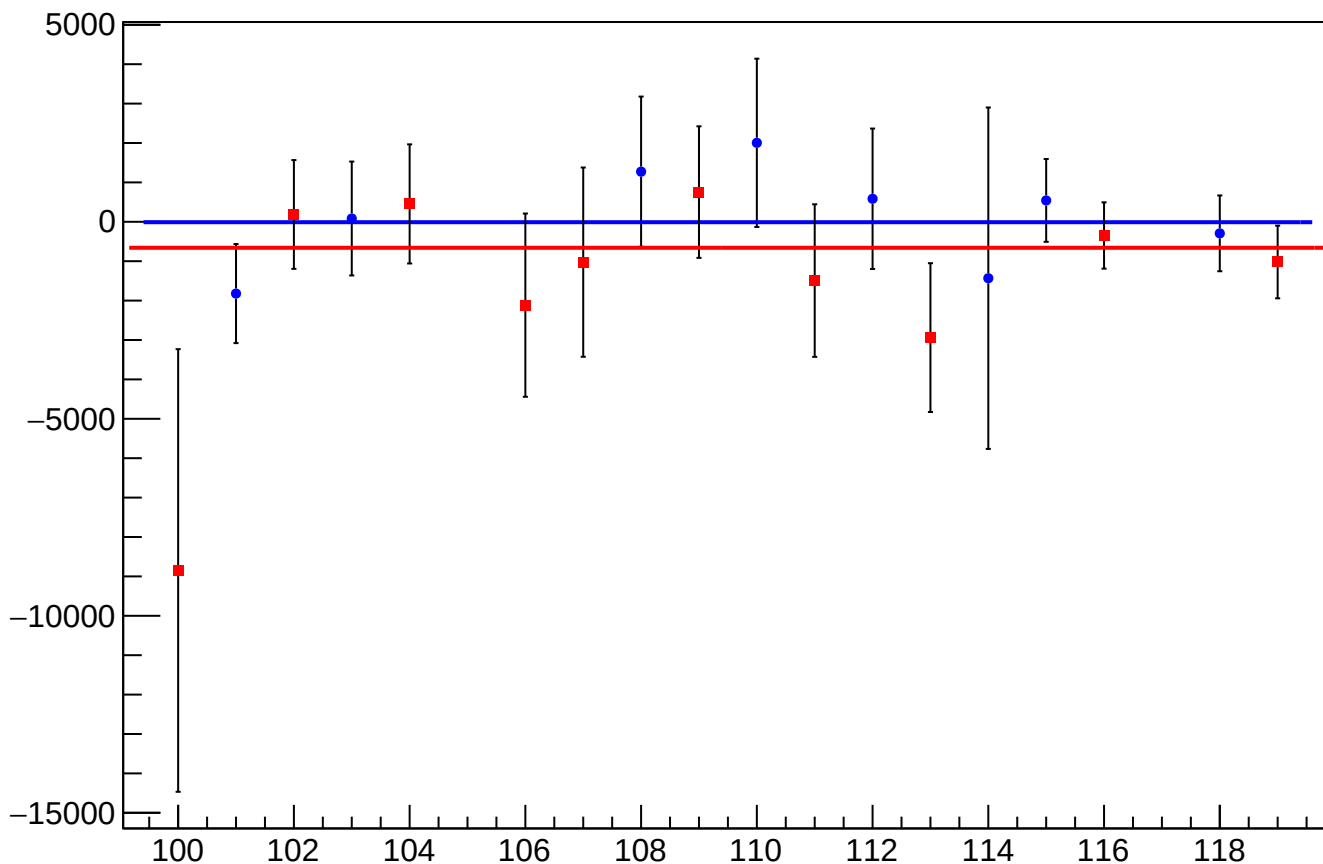
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 103.019+/-0.029  $\chi^2/\text{NDF}$ : 1862927.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1526\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -10.253±/502.486  $\chi^2/\text{NDF}$ : 4.0/7

Left Out: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -659.299±/454.282  $\chi^2/\text{NDF}$ : 6.1/9

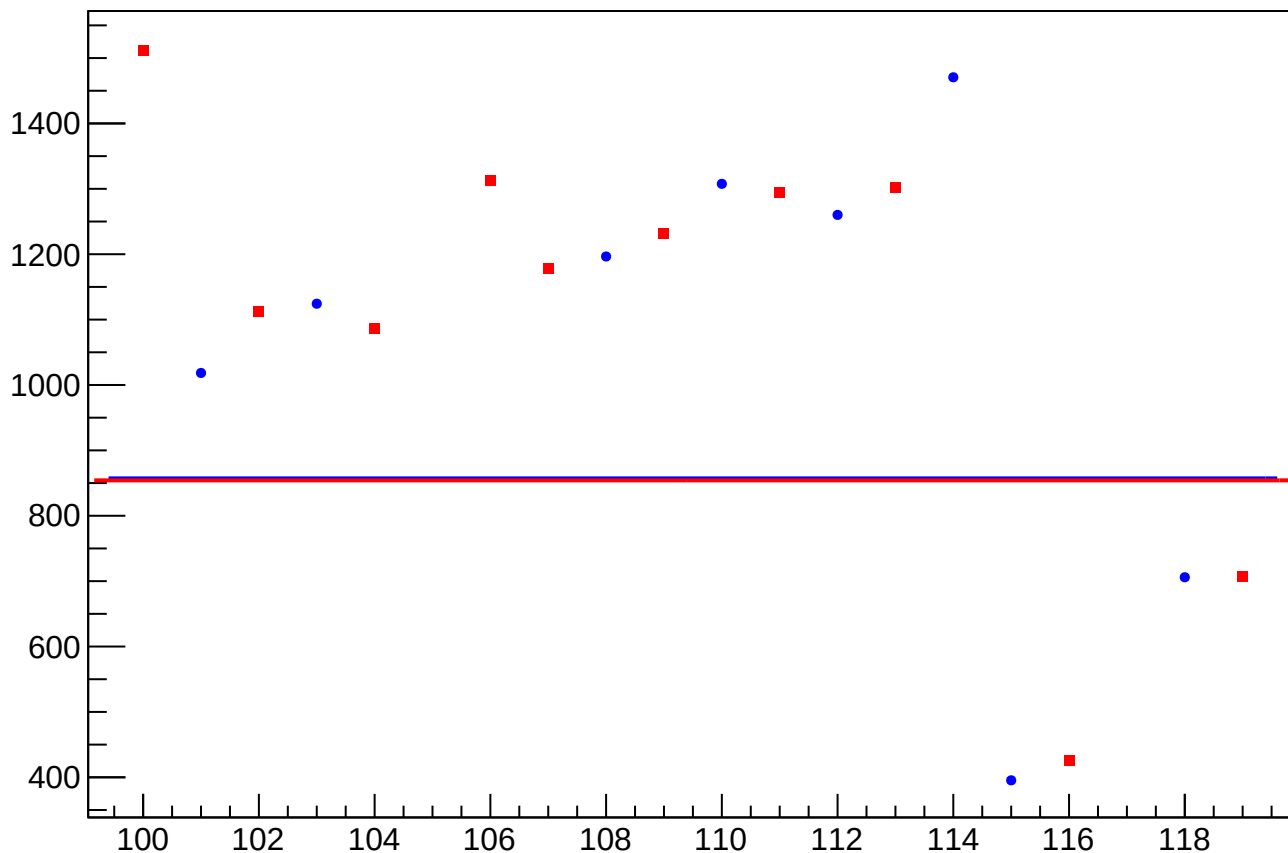
Left In: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -367.393±/336.983  $\chi^2/\text{NDF}$ : 11.0/17

- sign 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 857.150+/-0.355  $\chi^2/\text{NDF}$ : 831614.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 854.143+/-0.321  $\chi^2/\text{NDF}$ : 1147304.0/9

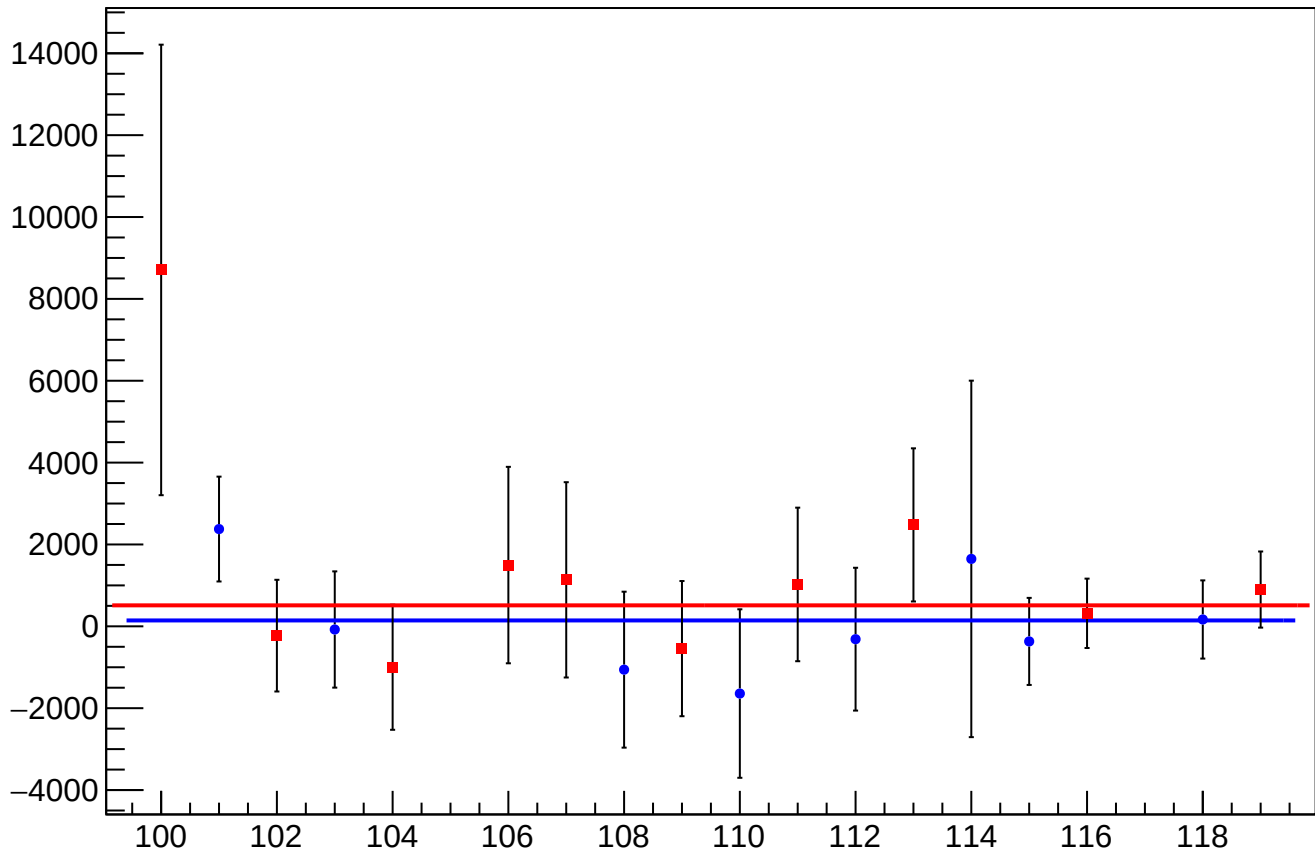
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 855.495+/-0.238  $\chi^2/\text{NDF}$ : 1978957.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1526\_avg\_mean vs Slug



Right In: 143.857 $\pm$ 501.376  $\chi^2$ /NDF: 4.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 512.544 $\pm$ 454.872  $\chi^2$ /NDF: 5.5/9

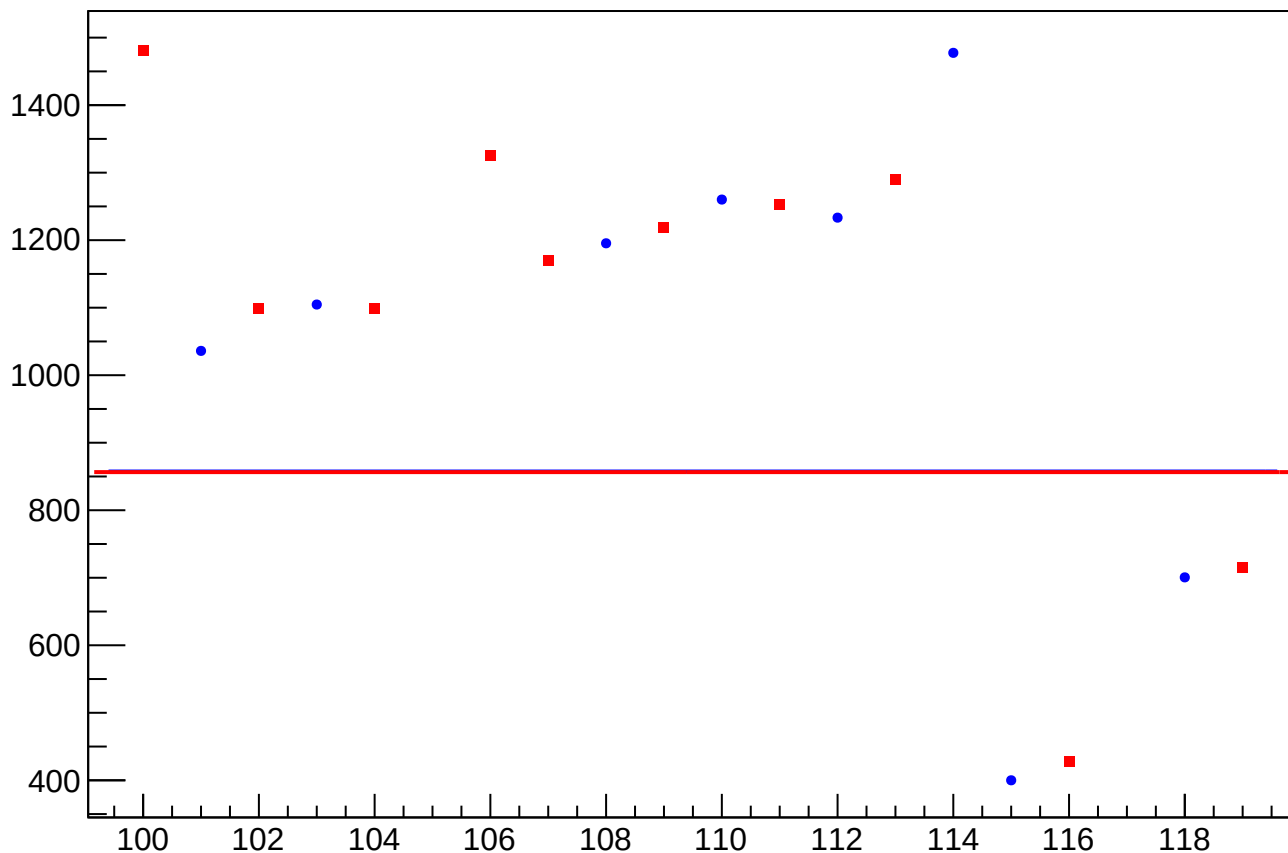
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 346.088 $\pm$ 336.887  $\chi^2$ /NDF: 10.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1526\_avg\_rms vs Slug



Right In: 857.339+/-0.355  $\chi^2/\text{NDF}$ : 796239.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 856.481+/-0.322  $\chi^2/\text{NDF}$ : 1101220.2/9

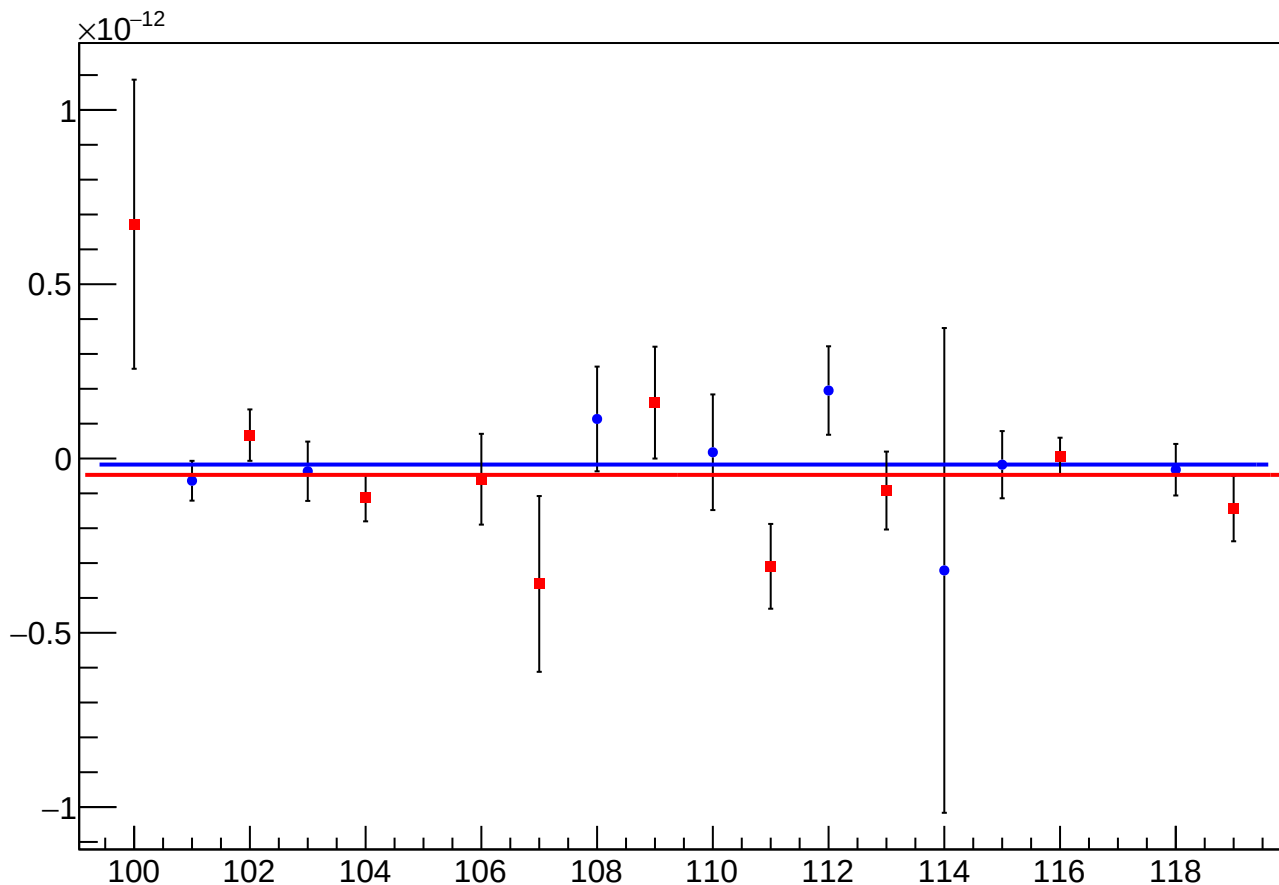
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 856.868+/-0.238  $\chi^2/\text{NDF}$ : 1897462.5/17

- 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  $\chi^2/\text{NDF}$ : 4.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.4/9

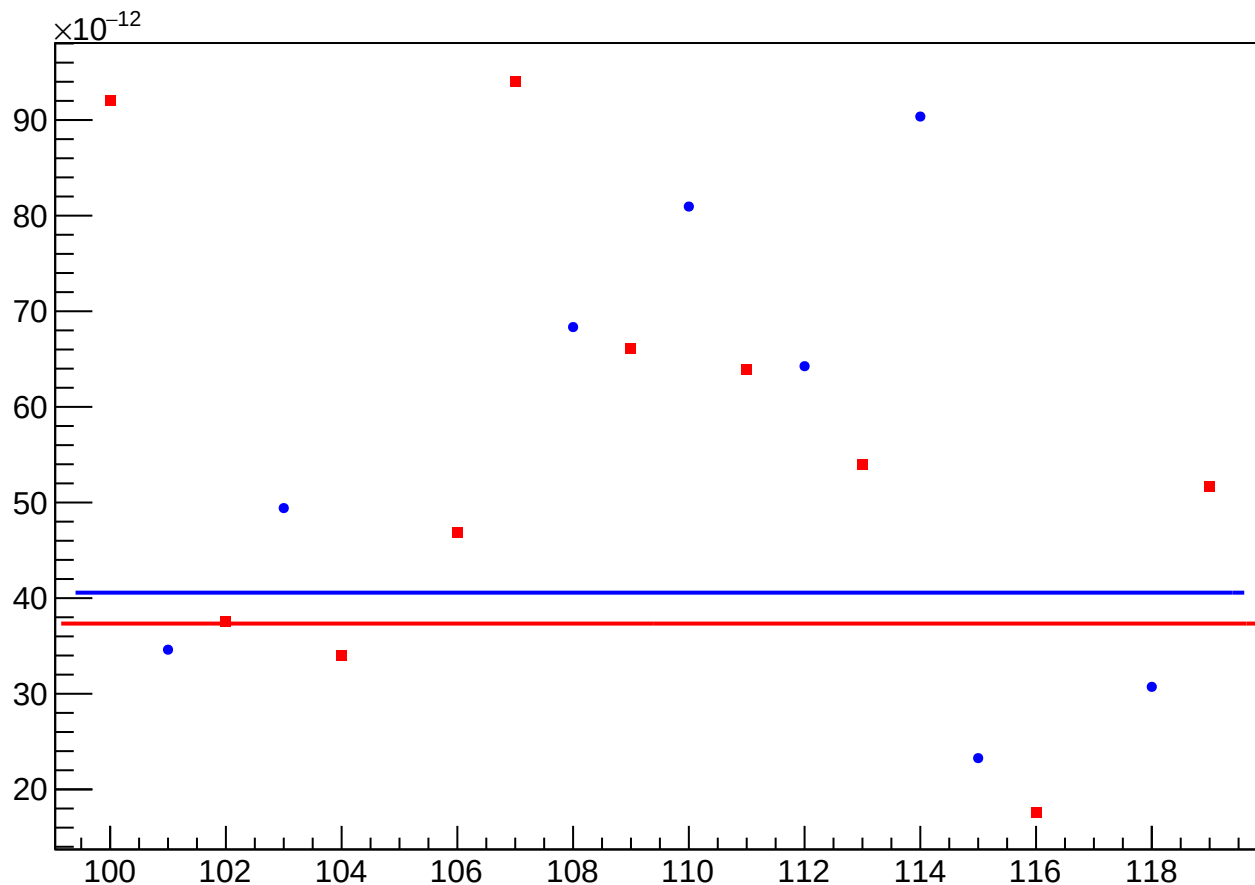
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 21.4/17

- 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  $\chi^2/\text{NDF}$ : 410120.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 677879.5/9

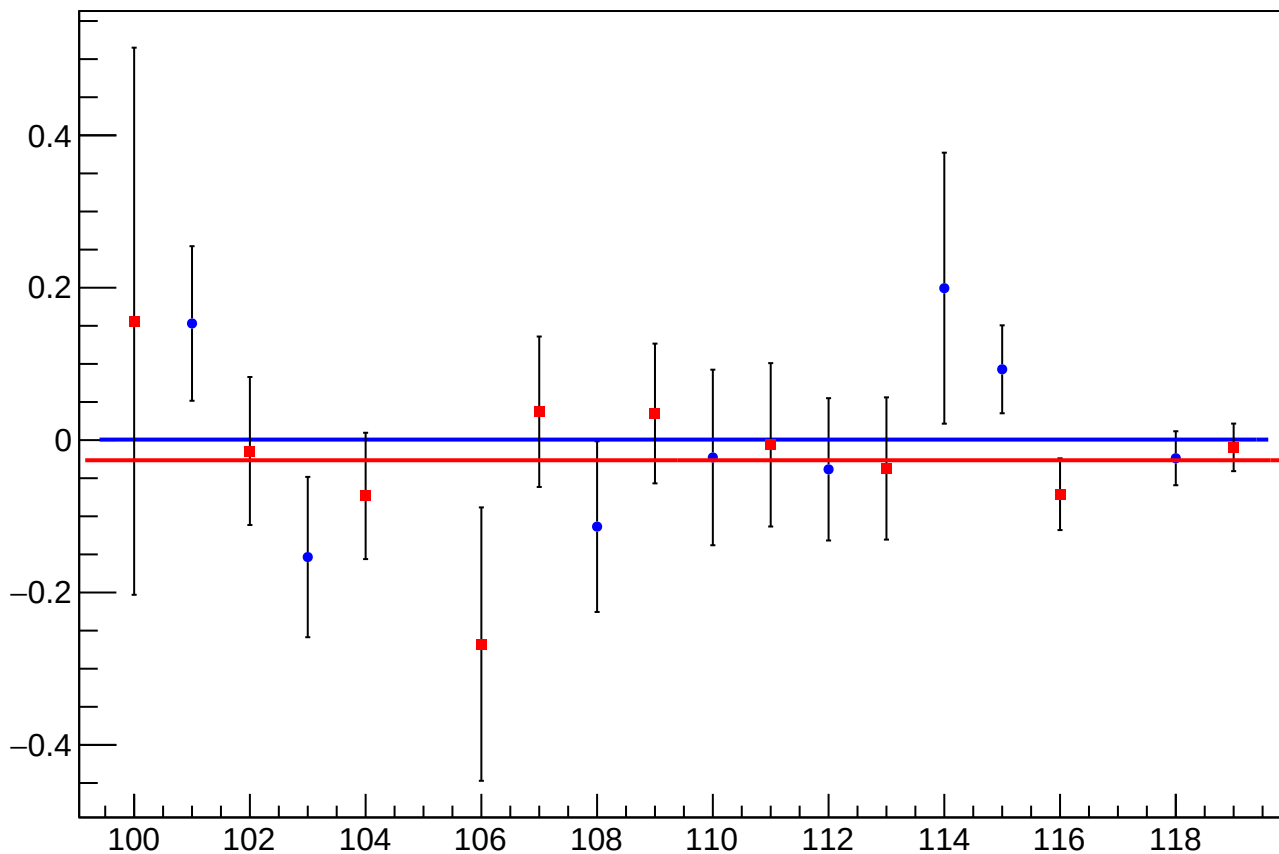
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1098352.7/17

- 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: 0.001 $\pm$ 0.025  $\chi^2$ /NDF: 9.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.026 $\pm$ 0.021  $\chi^2$ /NDF: 4.5/9

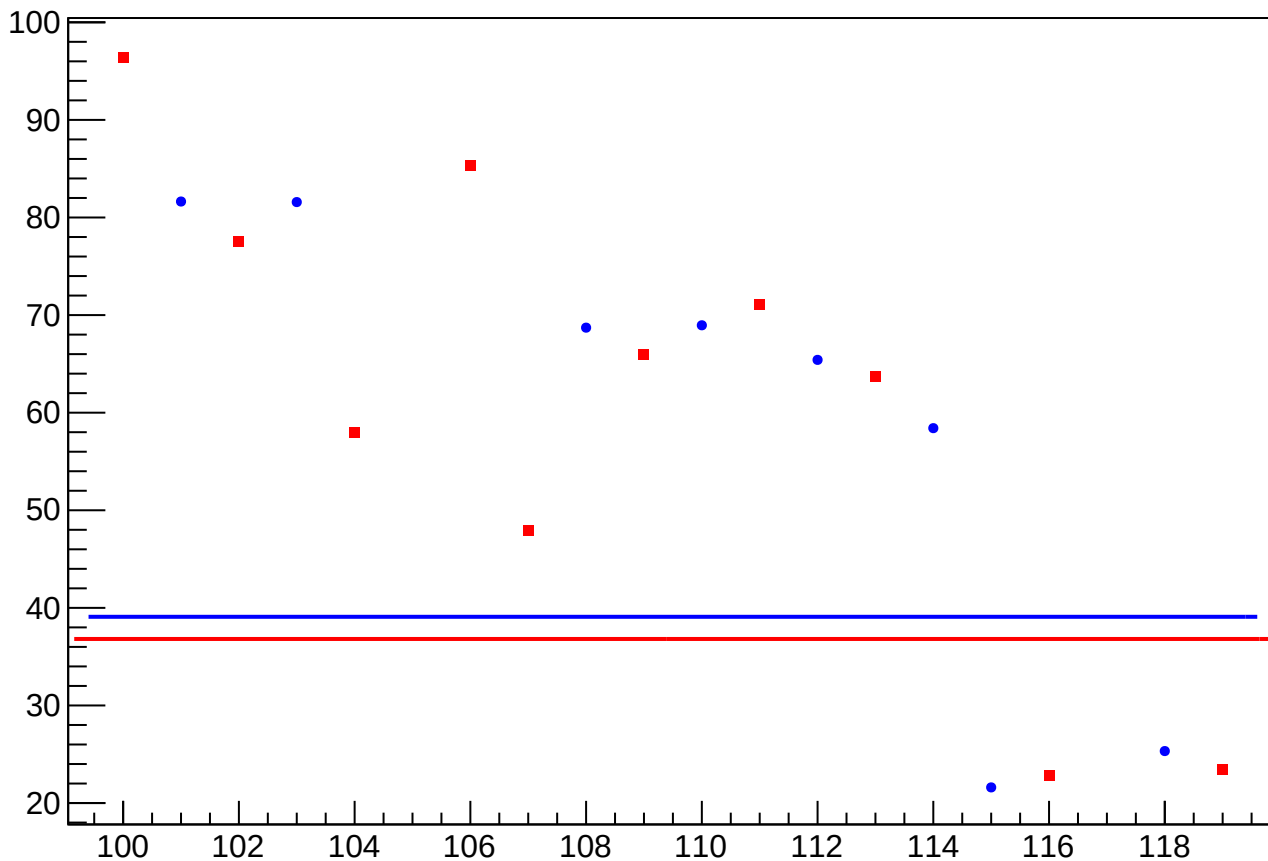
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.015 $\pm$ 0.016  $\chi^2$ /NDF: 15.1/17

- 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: 39.086+/-0.018  $\chi^2/\text{NDF}$ : 1620428.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.814+/-0.015  $\chi^2/\text{NDF}$ : 1824427.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

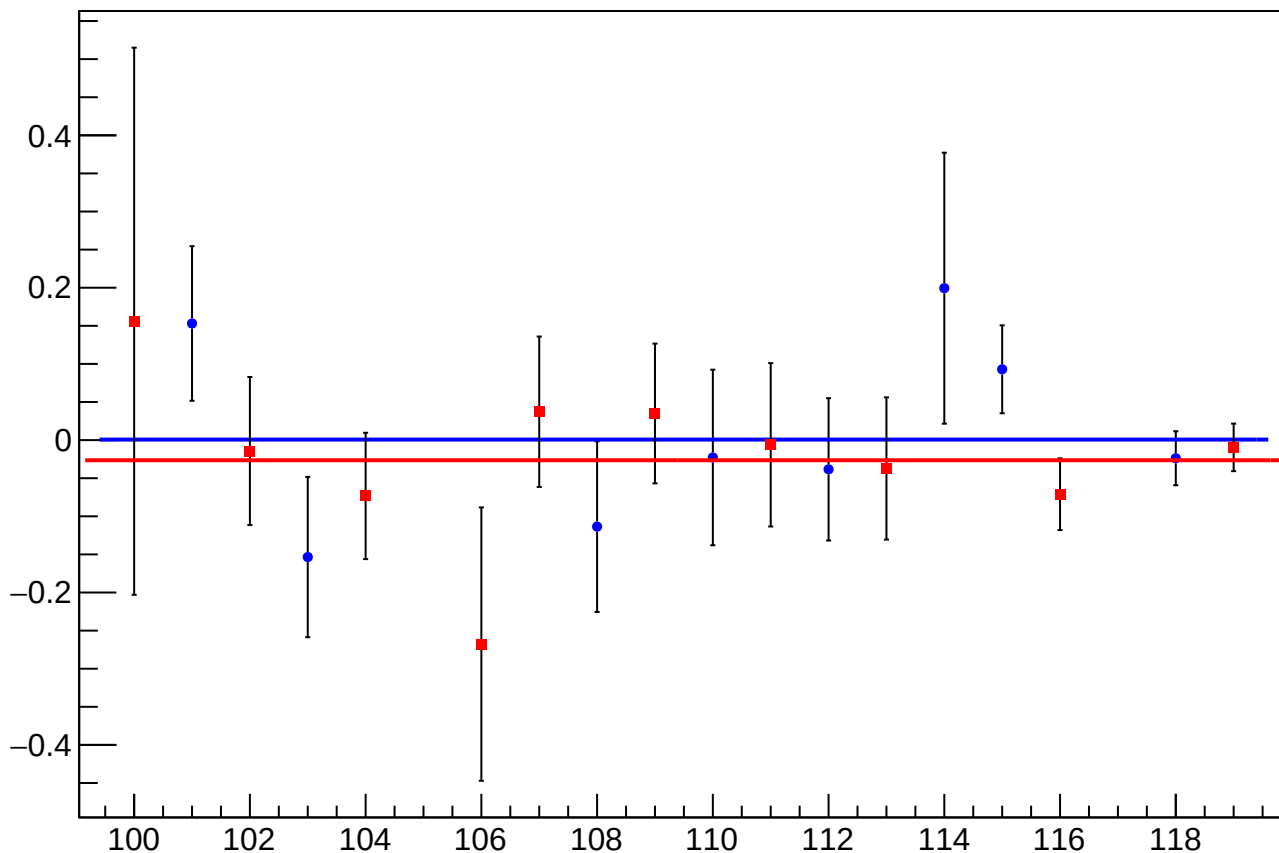
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.768+/-0.012  $\chi^2/\text{NDF}$ : 3454356.3/17

- 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: 0.001 $\pm$ 0.025  $\chi^2$ /NDF: 9.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.026 $\pm$ 0.021  $\chi^2$ /NDF: 4.5/9

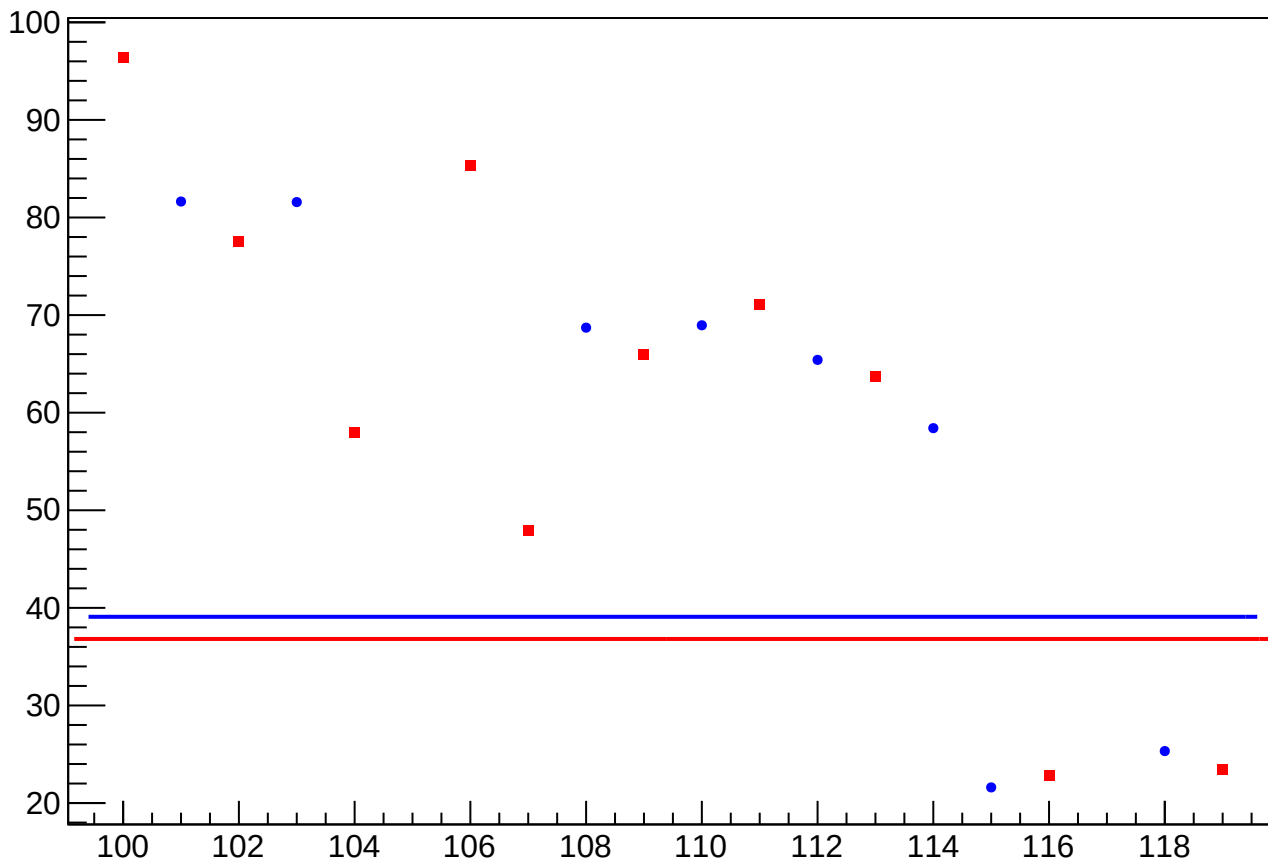
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.015 $\pm$ 0.016  $\chi^2$ /NDF: 15.1/17

- 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: 39.086+/-0.018  $\chi^2/\text{NDF}$ : 1620428.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.814+/-0.015  $\chi^2/\text{NDF}$ : 1824427.4/9

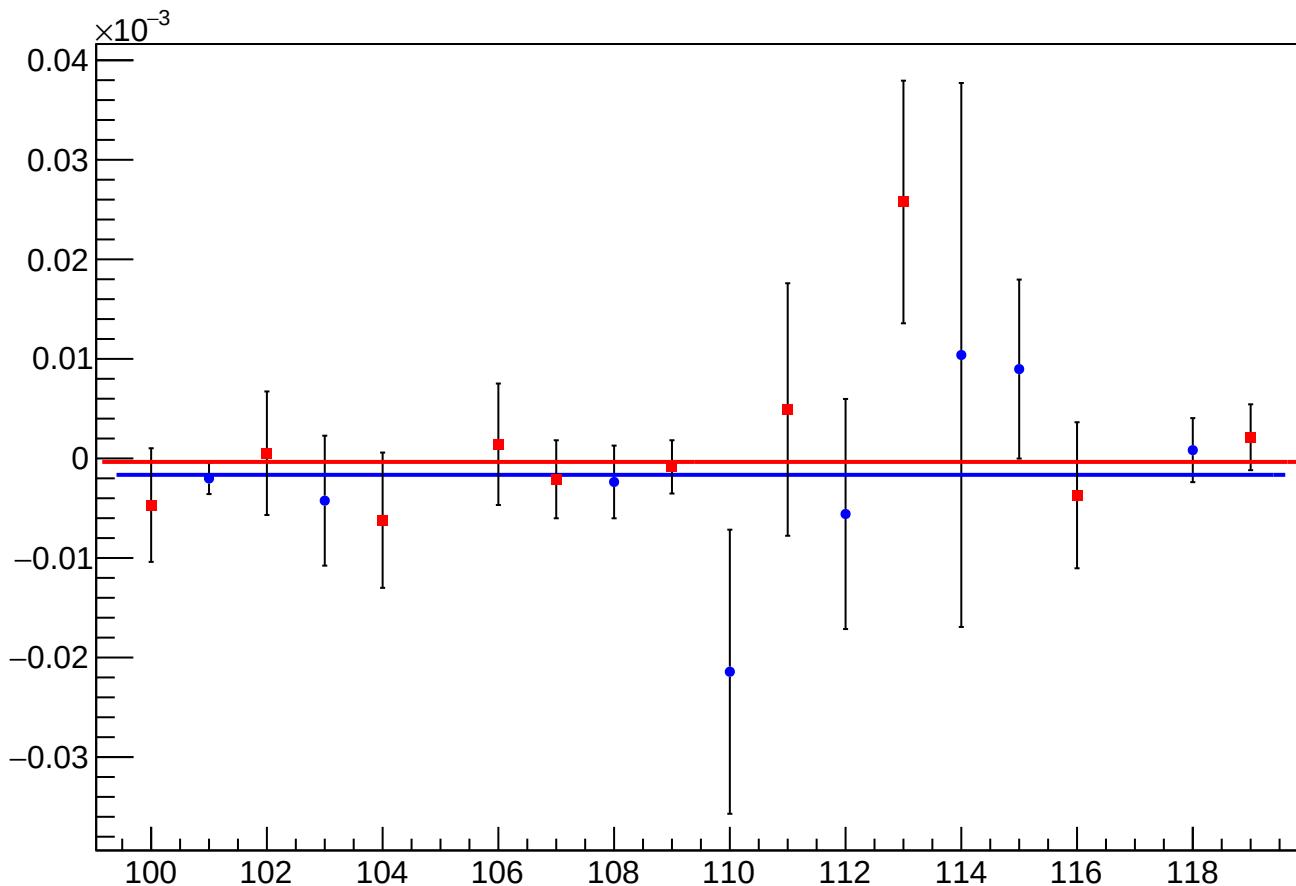
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.768+/-0.012  $\chi^2/\text{NDF}$ : 3454356.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.2/9

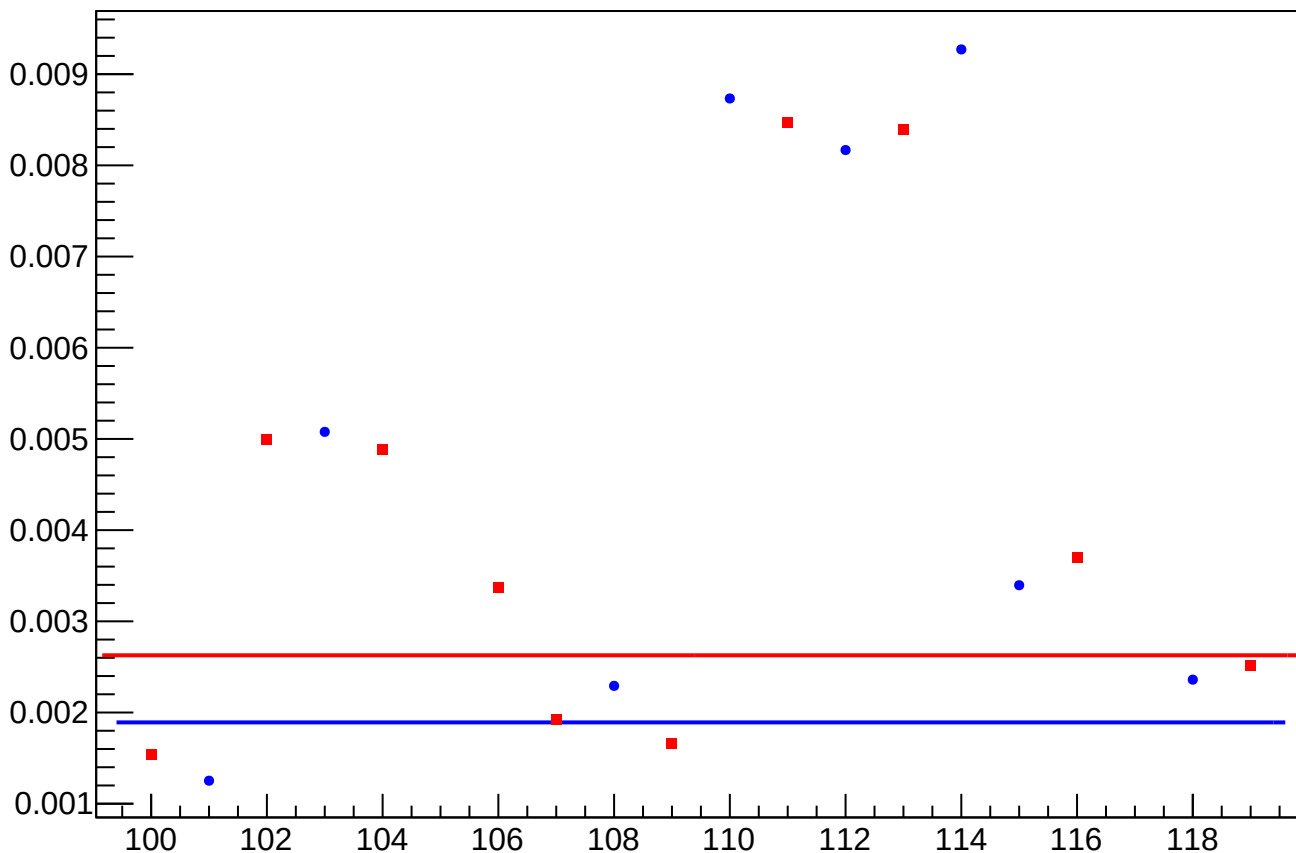
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.1/17

- 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  $\chi^2/\text{NDF}$ : 2126092.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1860428.3/9

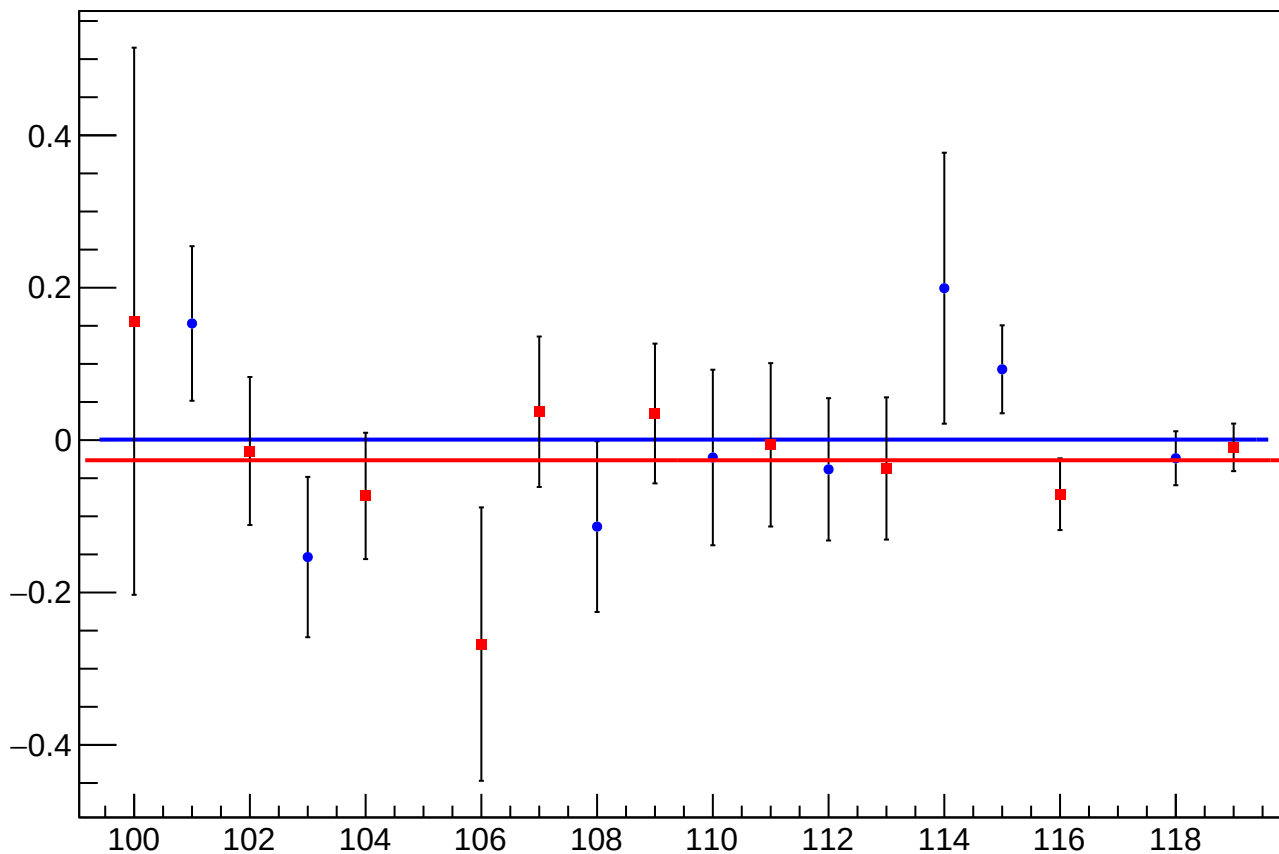
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4263766.1/17

- 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: 0.001 $\pm$ 0.025  $\chi^2$ /NDF: 9.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.026 $\pm$ 0.021  $\chi^2$ /NDF: 4.5/9

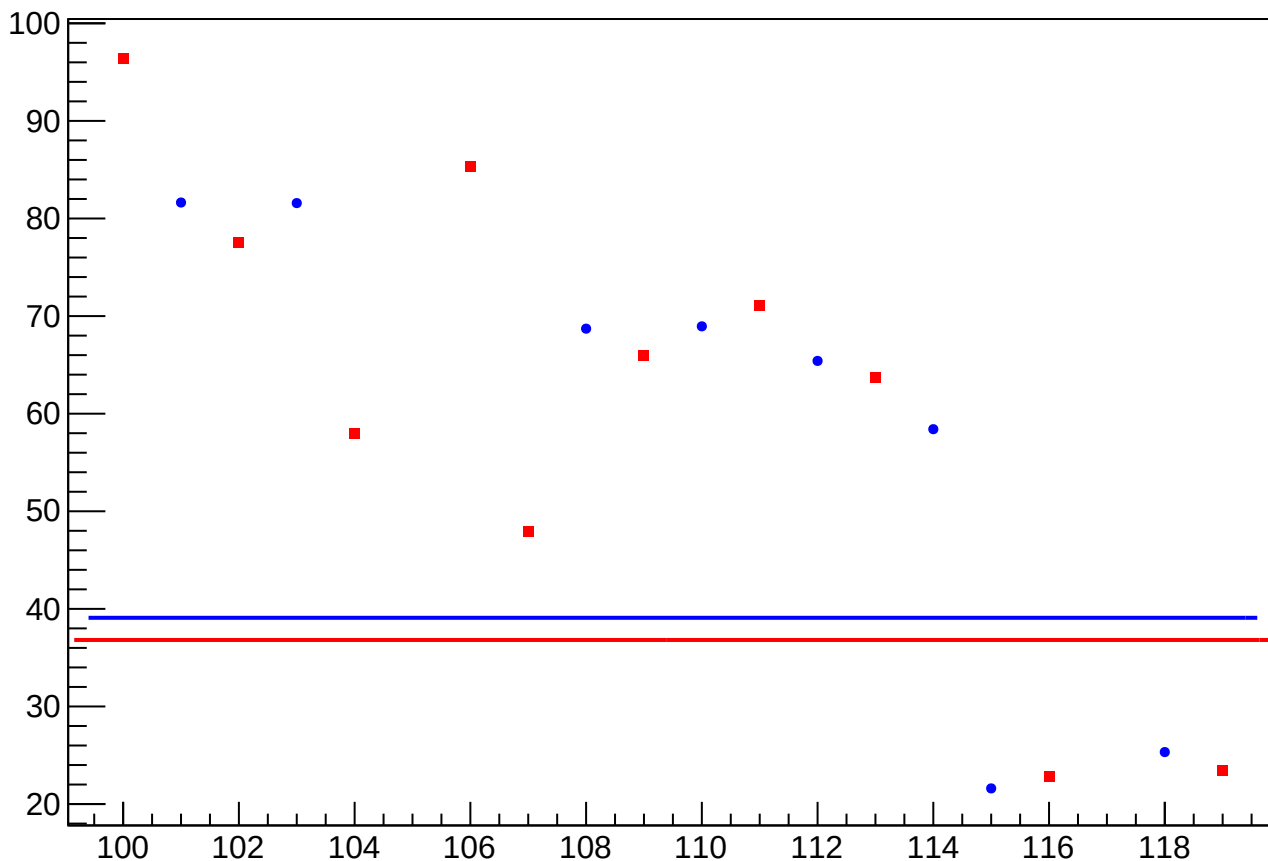
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.015 $\pm$ 0.016  $\chi^2$ /NDF: 15.1/17

- 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: 39.086 $\pm$ 0.018  $\chi^2$ /NDF: 1620346.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.814 $\pm$ 0.015  $\chi^2$ /NDF: 1824349.7/9

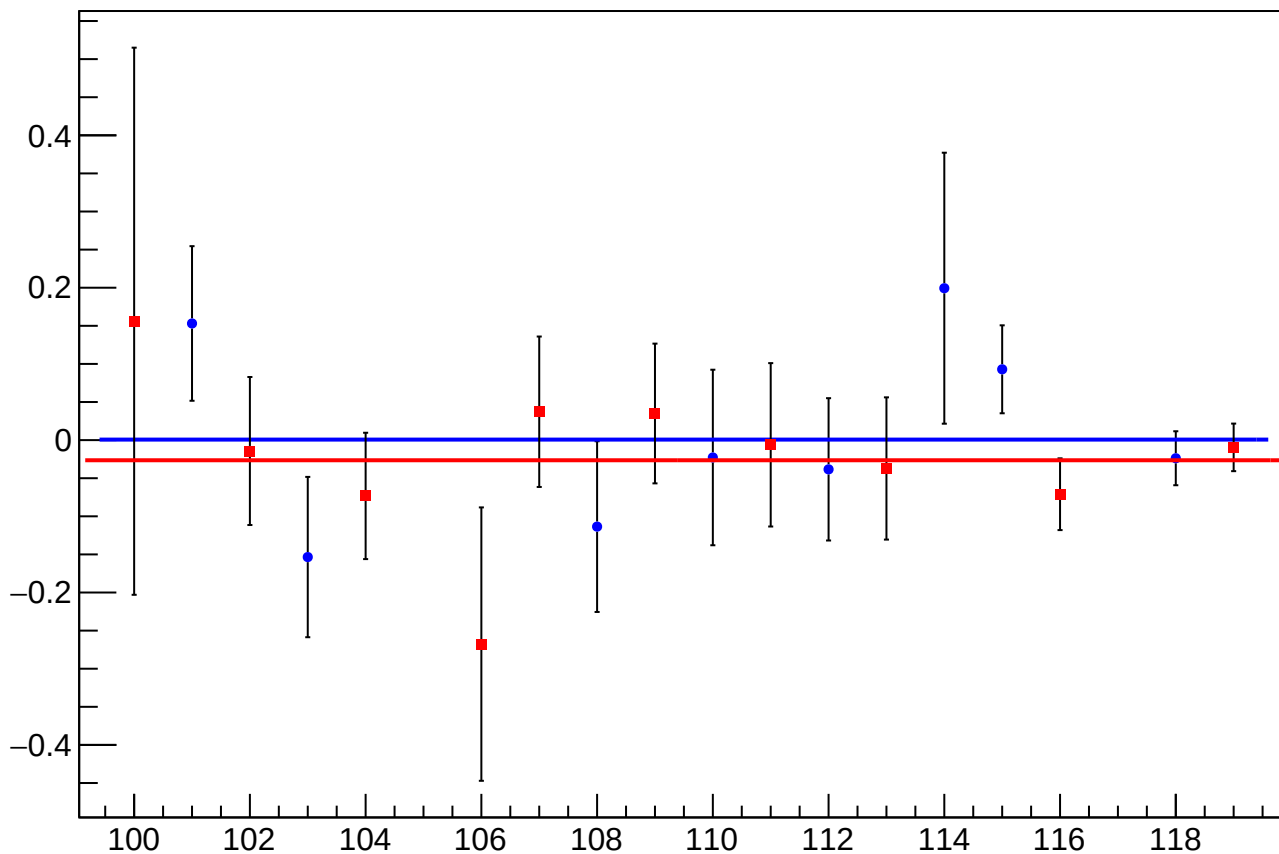
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.768 $\pm$ 0.012  $\chi^2$ /NDF: 3454198.6/17

- 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: 0.001 $\pm$ 0.025  $\chi^2$ /NDF: 9.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.026 $\pm$ 0.021  $\chi^2$ /NDF: 4.5/9

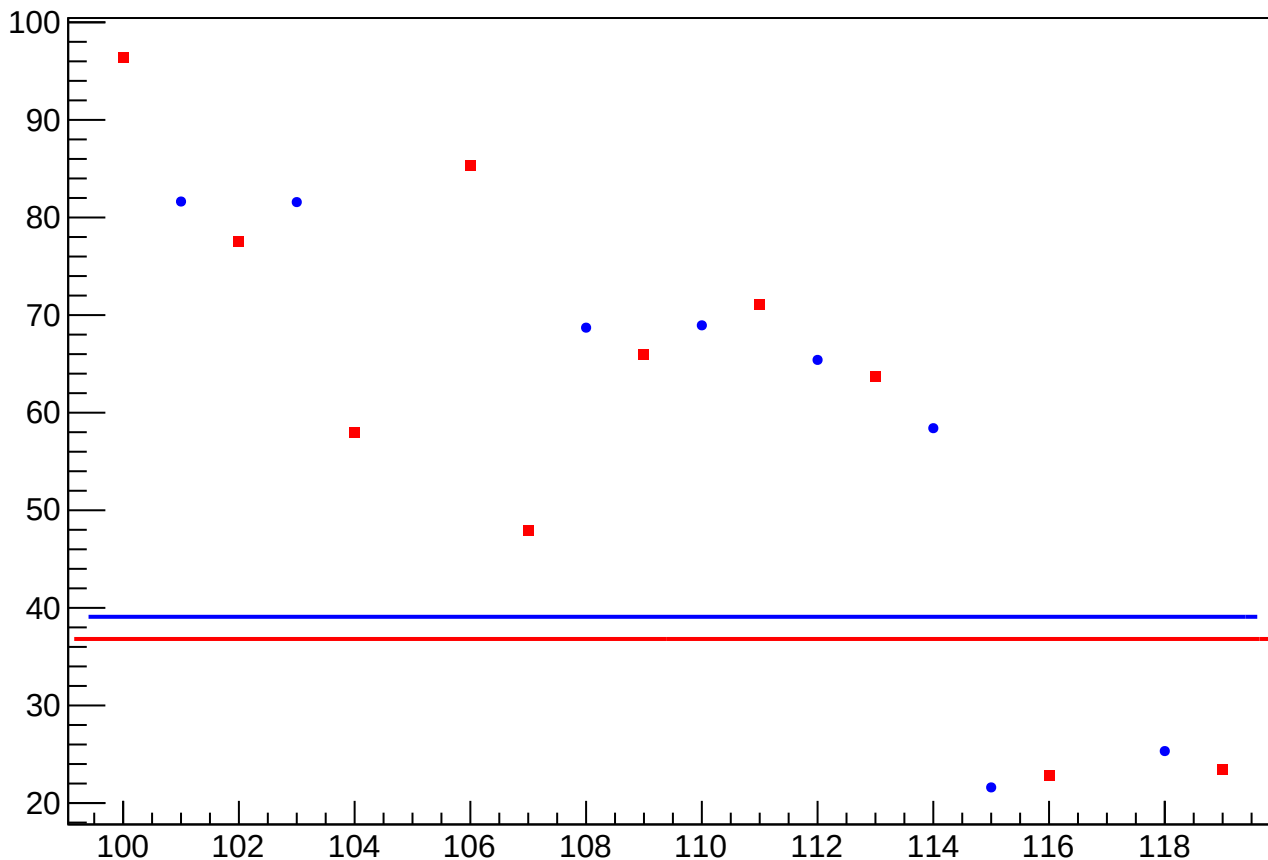
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.015 $\pm$ 0.016  $\chi^2$ /NDF: 15.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 39.086 $\pm$ 0.018  $\chi^2$ /NDF: 1620346.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 36.814 $\pm$ 0.015  $\chi^2$ /NDF: 1824349.7/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

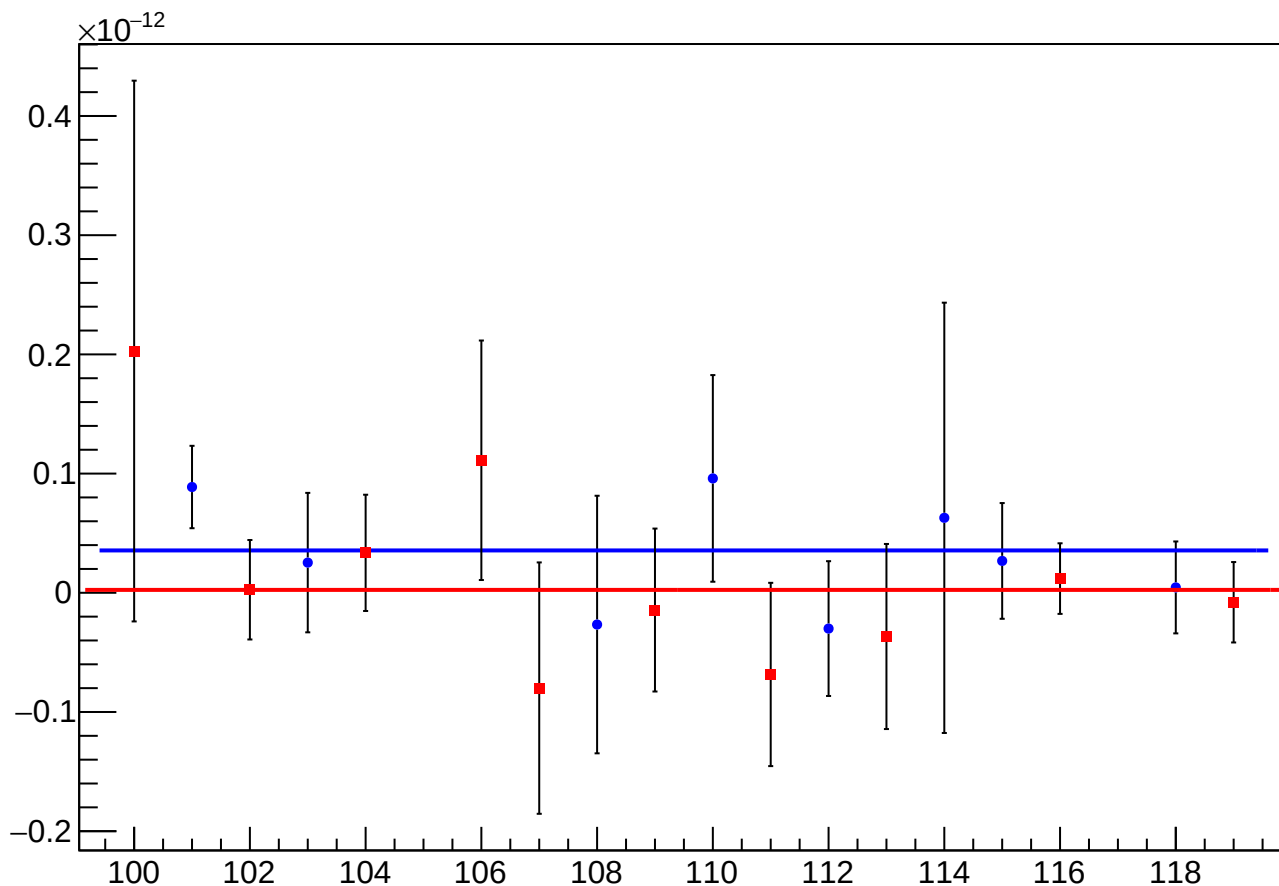
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.768 $\pm$ 0.012  $\chi^2$ /NDF: 3454198.6/17

- 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 +/- 0.000  $\chi^2/\text{NDF}$ : 5.3/7

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 4.3/9

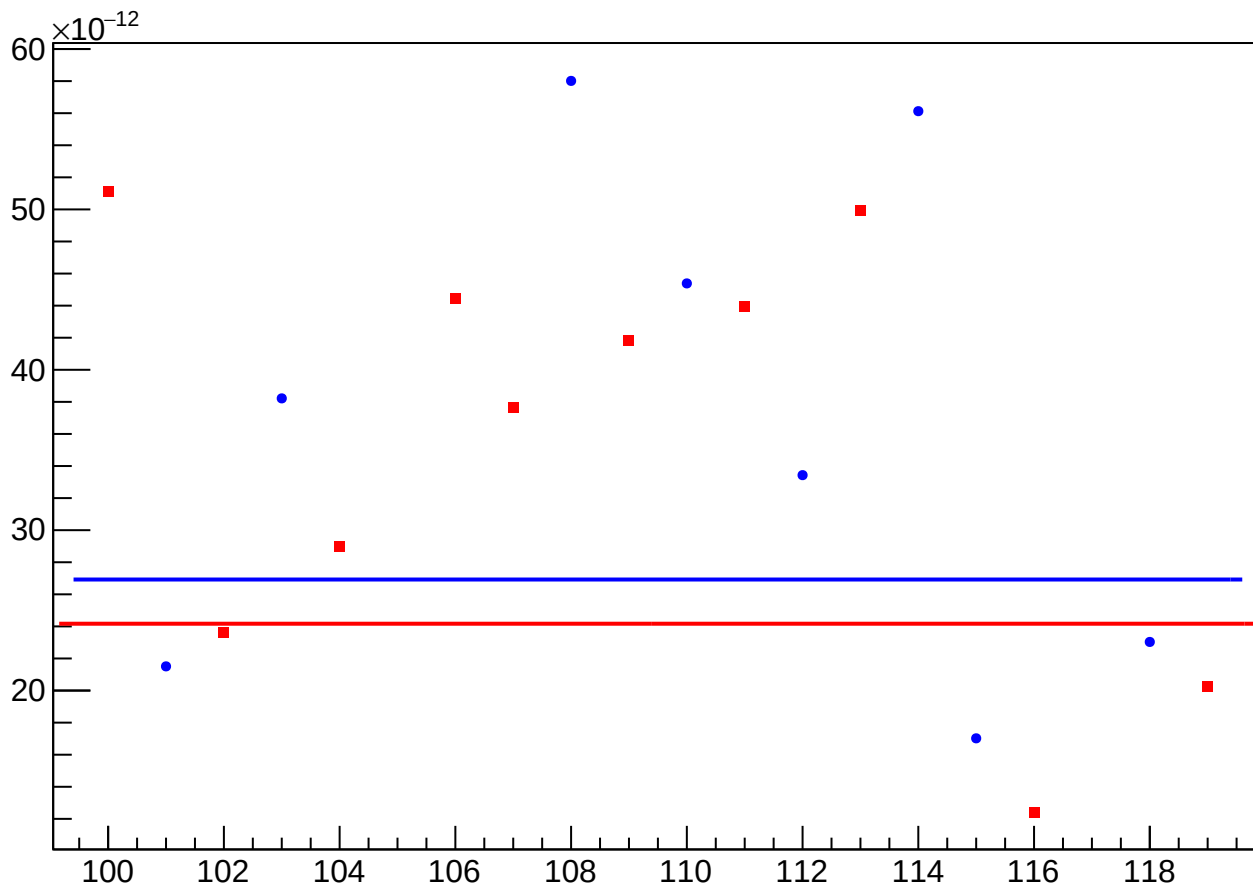
Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 11.4/17

- sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 562444.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 990829.9/9

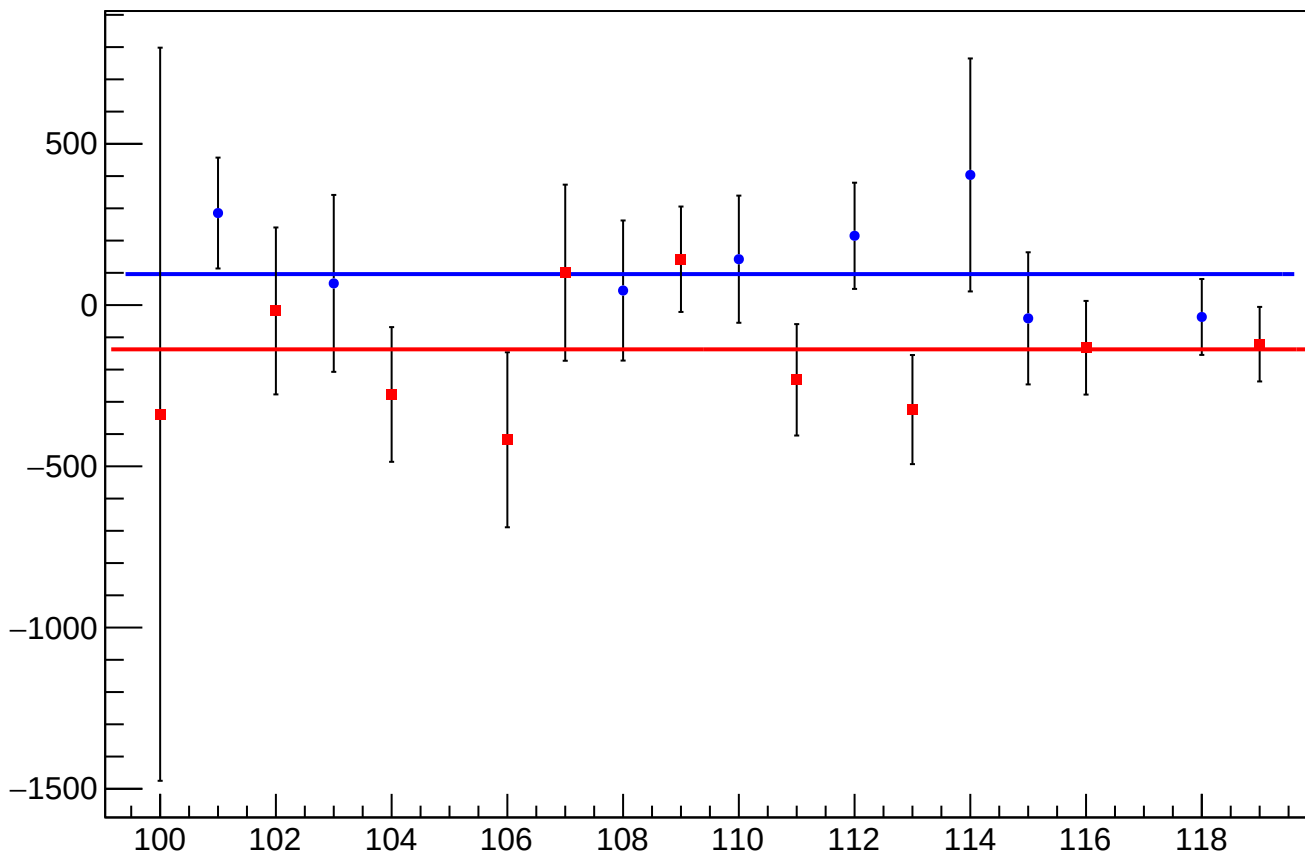
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1577634.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 96.104 $\pm$ 65.288  $\chi^2$ /NDF: 4.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -137.252 $\pm$ 58.346  $\chi^2$ /NDF: 7.0/9

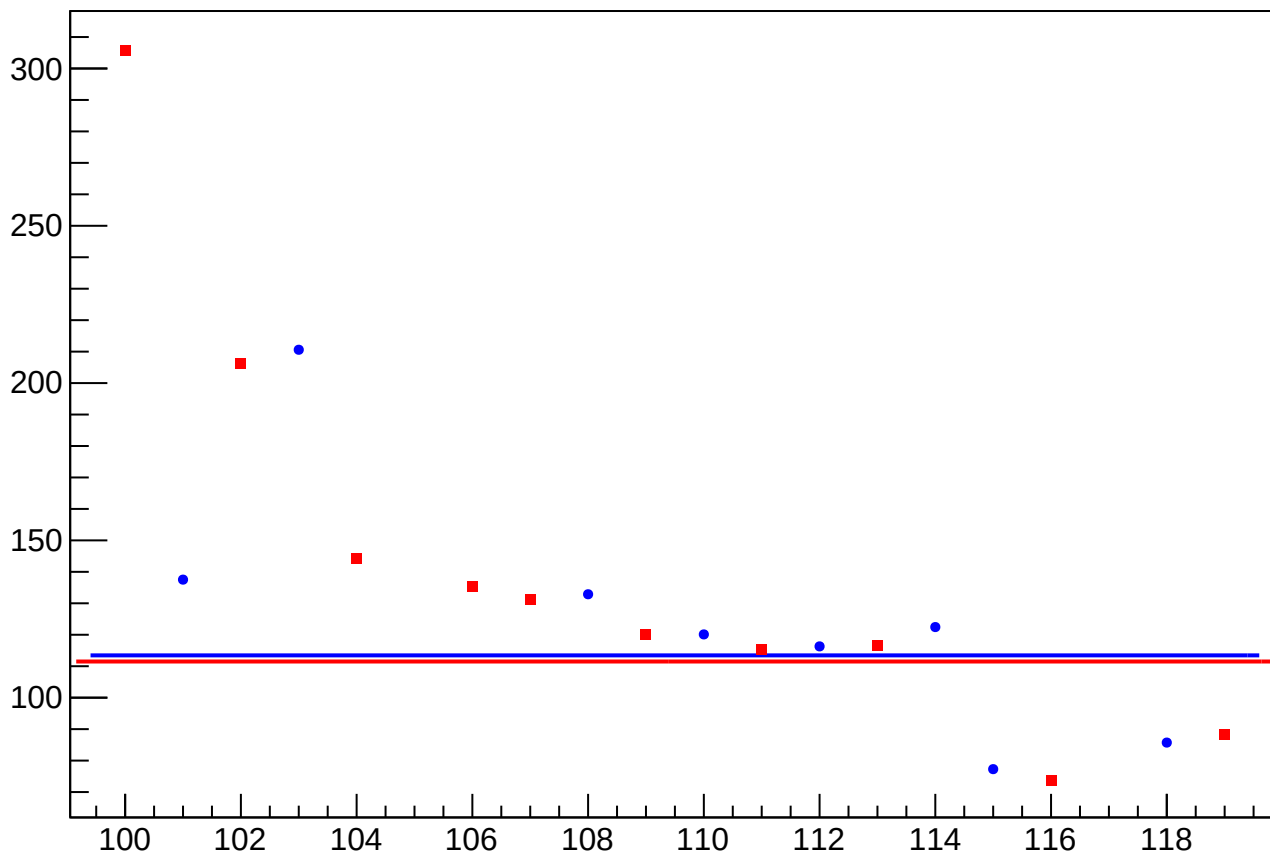
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -33.635 $\pm$ 43.505  $\chi^2$ /NDF: 18.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 113.447 $\pm$ 0.046  $\chi^2$ /NDF: 483454.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 111.497 $\pm$ 0.041  $\chi^2$ /NDF: 625323.7/9

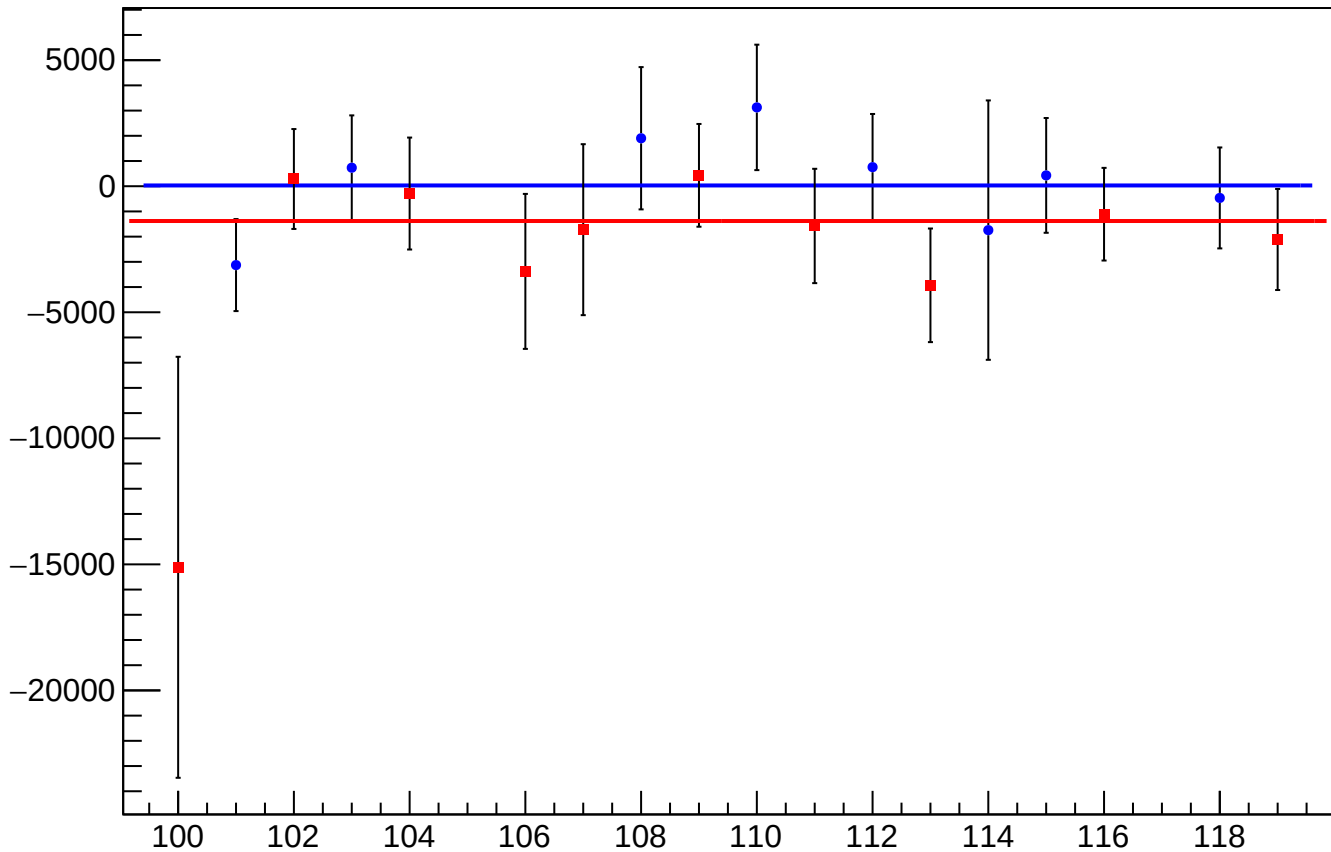
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 112.363 $\pm$ 0.031  $\chi^2$ /NDF: 1109771.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_reg\_correction\_mean vs Slug



Right In: 30.329+/-809.895  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1380.103+/-736.840  $\chi^2/\text{NDF}$ : 6.3/9

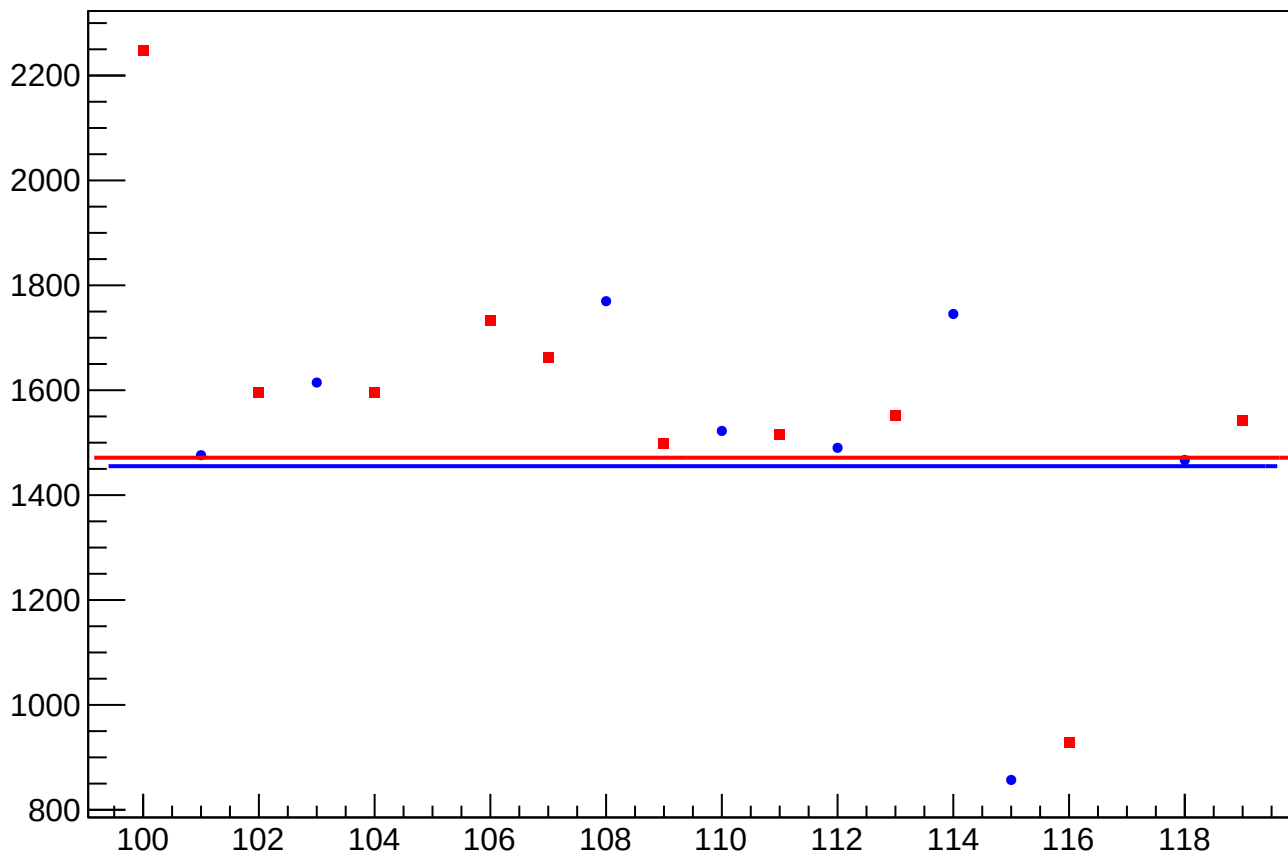
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -741.356+/-545.026  $\chi^2/\text{NDF}$ : 13.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_reg\_correction\_rms vs Slug



Right In: 1455.172+/-0.573  $\chi^2/\text{NDF}$ : 183463.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1471.349+/-0.521  $\chi^2/\text{NDF}$ : 233466.6/9

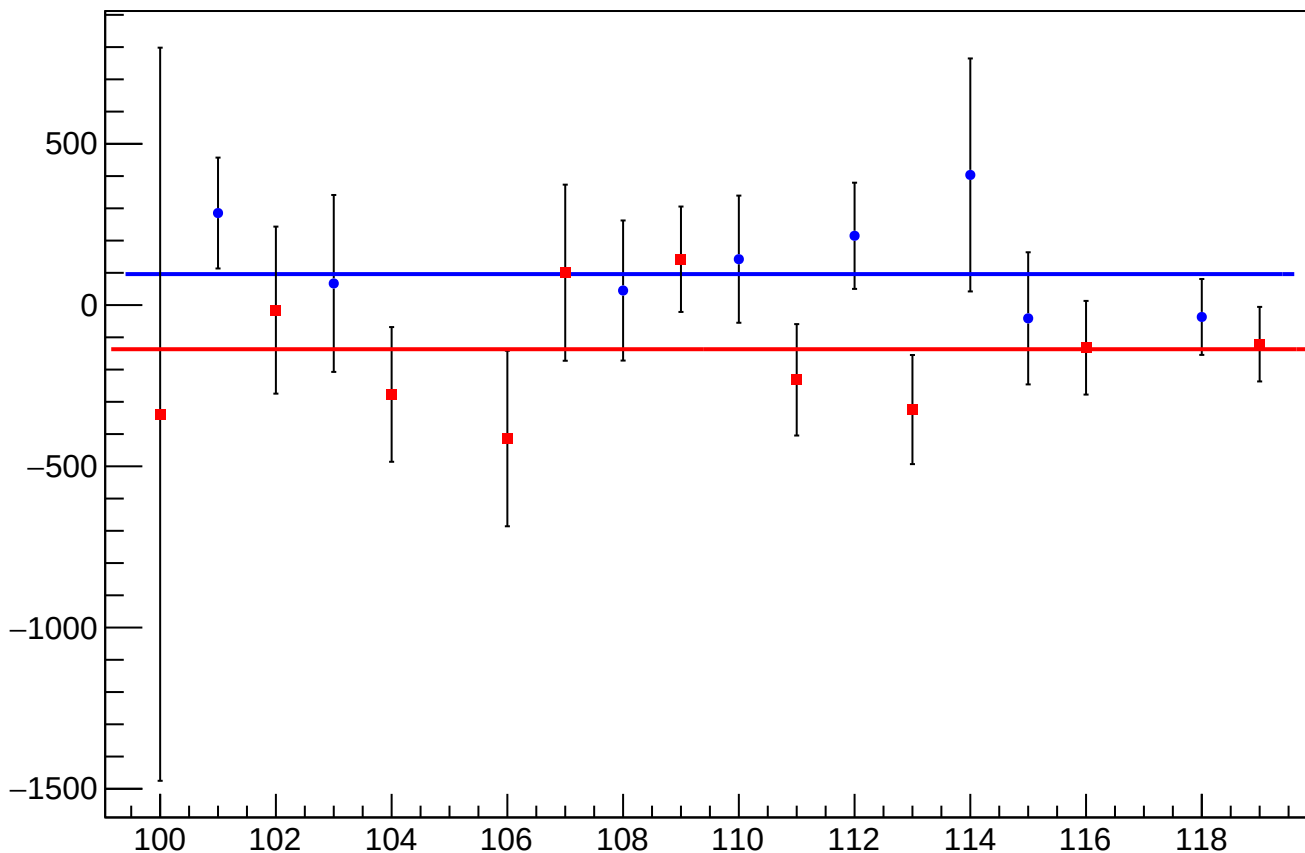
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1464.023+/-0.385  $\chi^2/\text{NDF}$ : 417366.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 96.092 $\pm$ 65.288  $\chi^2$ /NDF: 4.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -136.863 $\pm$ 58.356  $\chi^2$ /NDF: 7.0/9

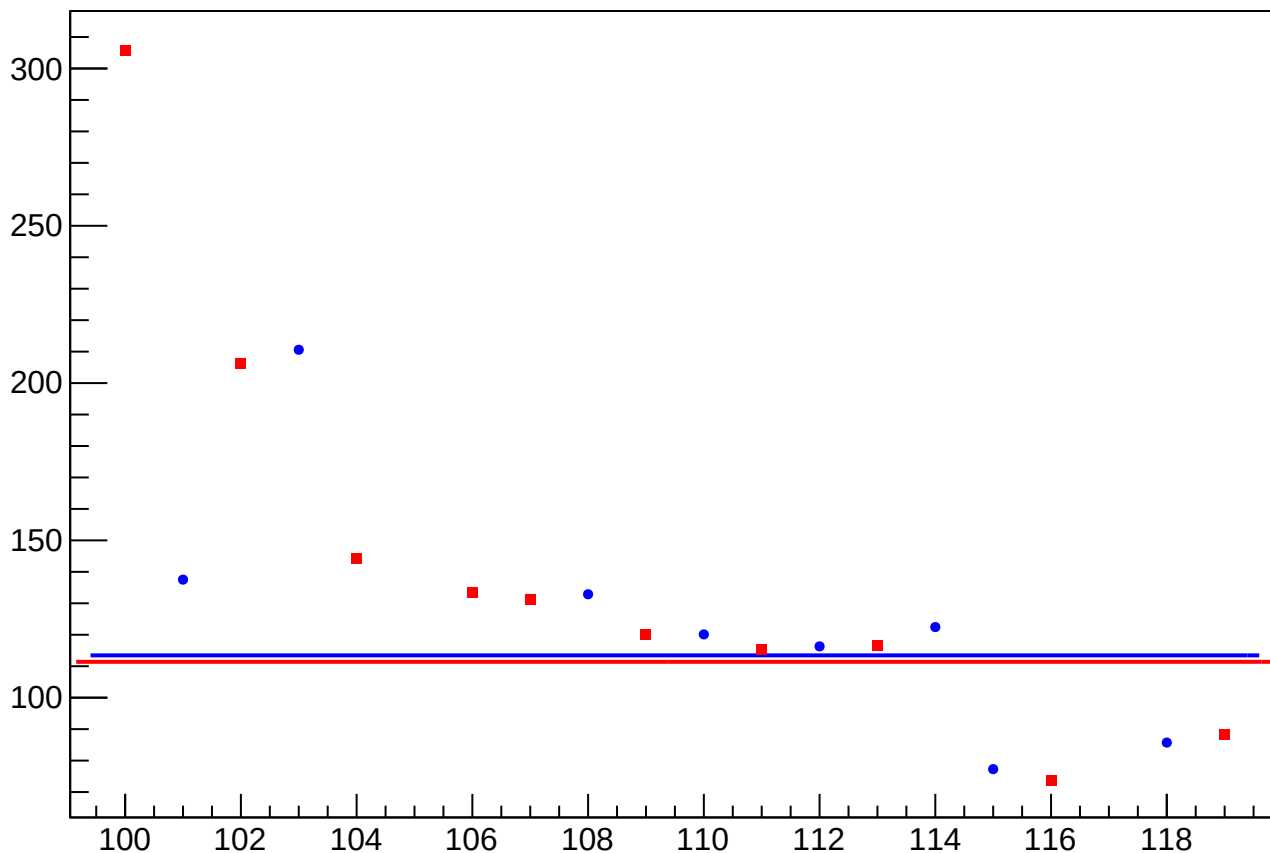
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -33.404 $\pm$ 43.509  $\chi^2$ /NDF: 18.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 113.447 $\pm$ 0.046  $\chi^2$ /NDF: 483457.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 111.400 $\pm$ 0.041  $\chi^2$ /NDF: 623140.7/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

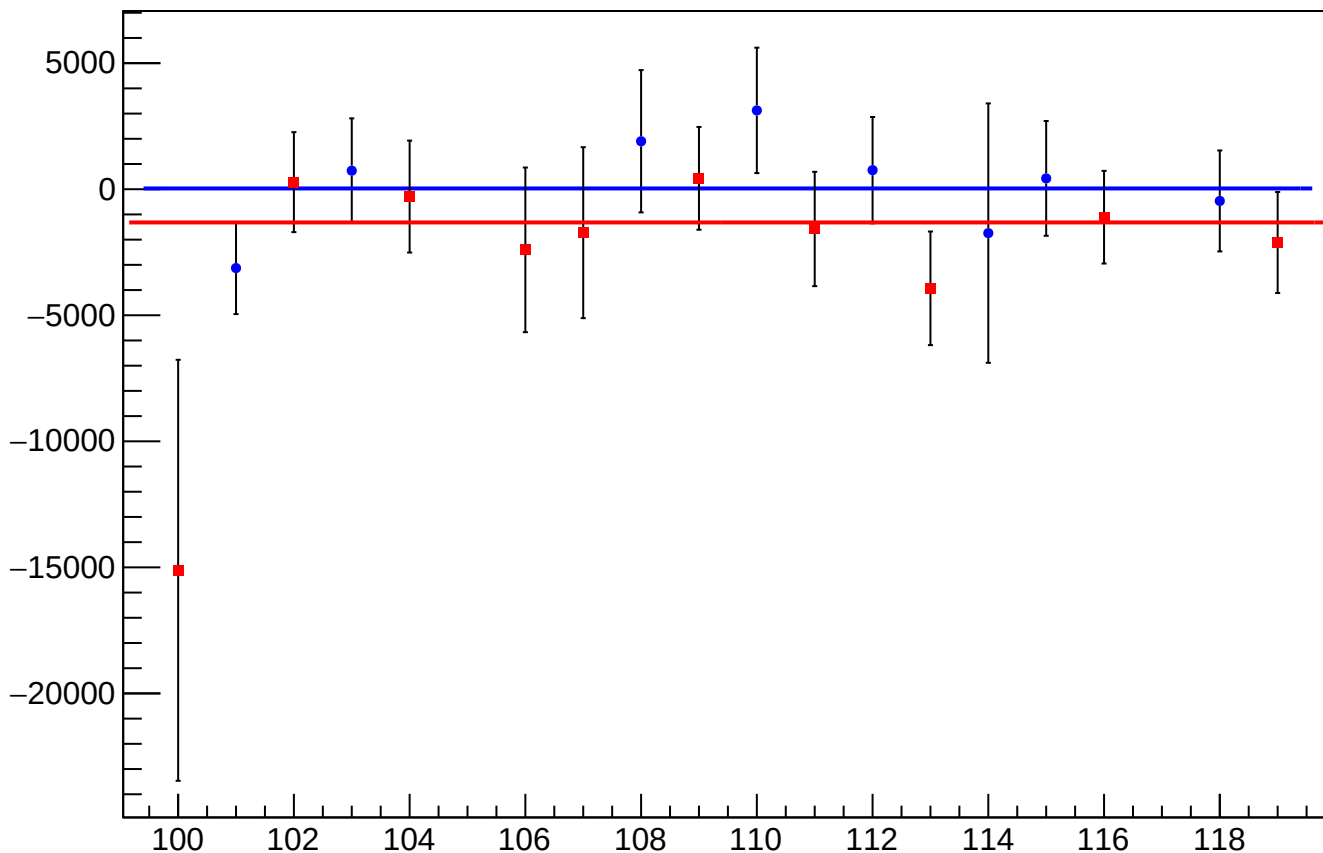
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 112.309 $\pm$ 0.031  $\chi^2$ /NDF: 1107691.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_3726\_avg\_cor\_correction\_mean vs Slug



Right In: 30.460+/-809.904  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1318.188+/-739.337  $\chi^2/\text{NDF}$ : 6.0/9

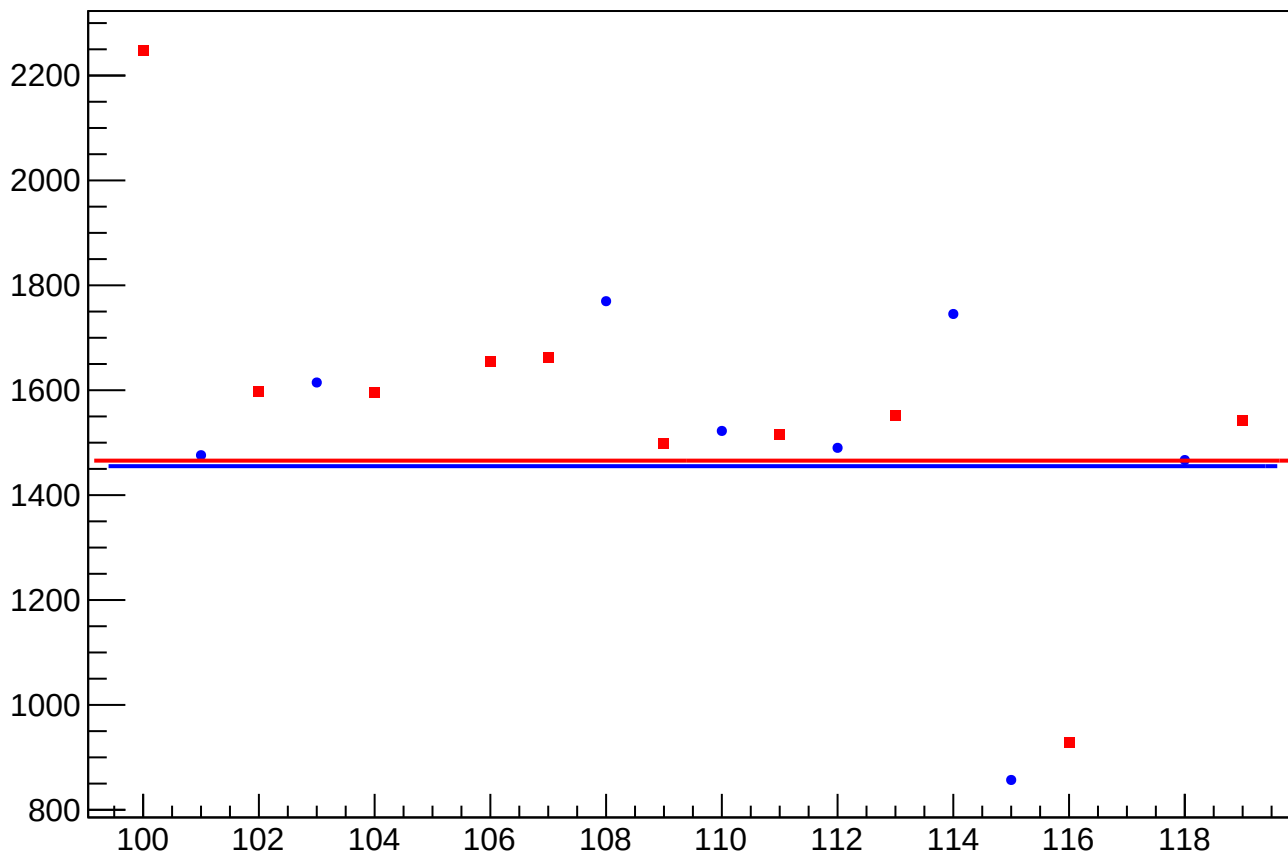
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -705.167+/-546.037  $\chi^2/\text{NDF}$ : 12.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_cor\_correction\_rms vs Slug



Right In: 1455.185 $\pm$ 0.573  $\chi^2$ /NDF: 183479.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1465.758 $\pm$ 0.523  $\chi^2$ /NDF: 225309.4/9

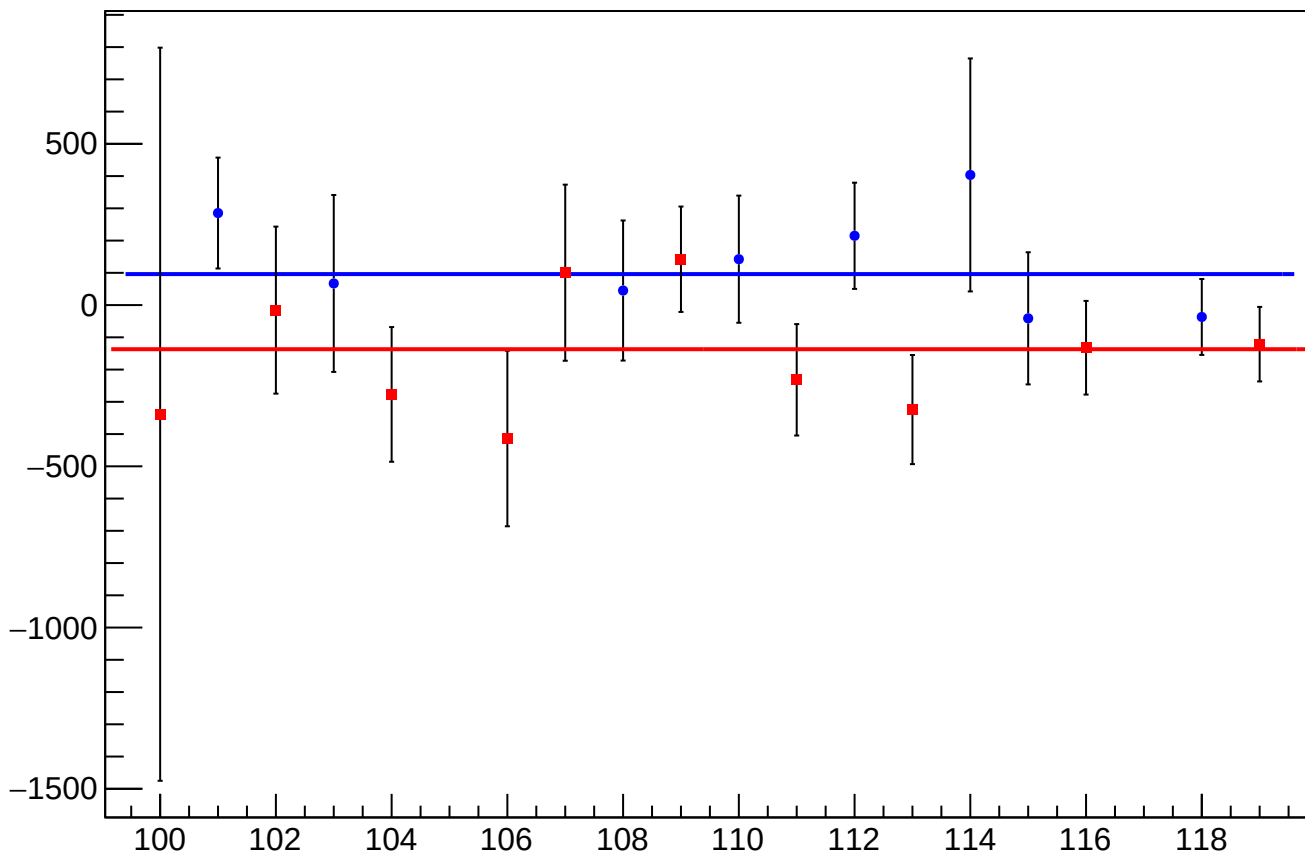
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1460.952 $\pm$ 0.386  $\chi^2$ /NDF: 408974.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 96.092+/-65.288  $\chi^2/\text{NDF}$ : 4.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -136.863+/-58.356  $\chi^2/\text{NDF}$ : 7.0/9

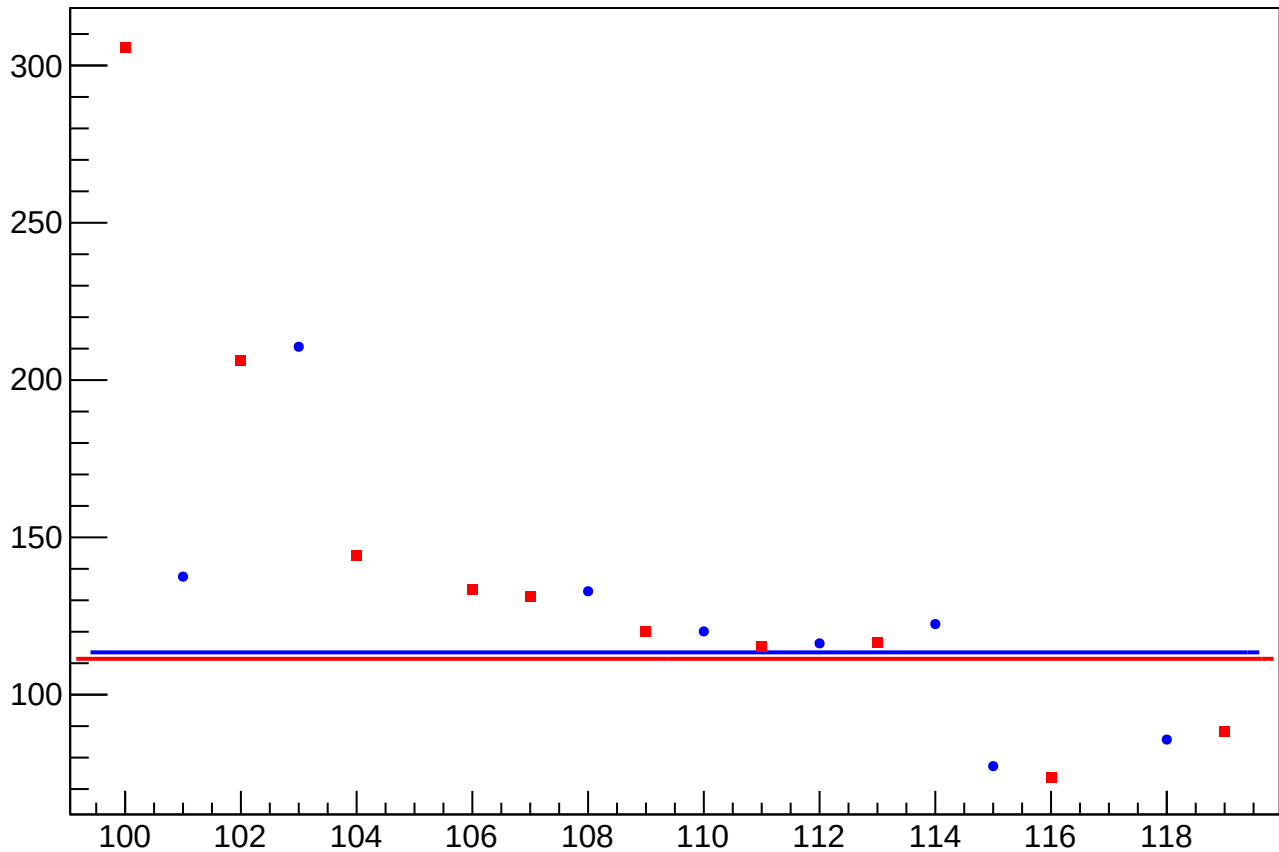
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -33.404+/-43.509  $\chi^2/\text{NDF}$ : 18.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 113.447 $\pm$ 0.046  $\chi^2$ /NDF: 483457.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 111.400 $\pm$ 0.041  $\chi^2$ /NDF: 623140.7/9

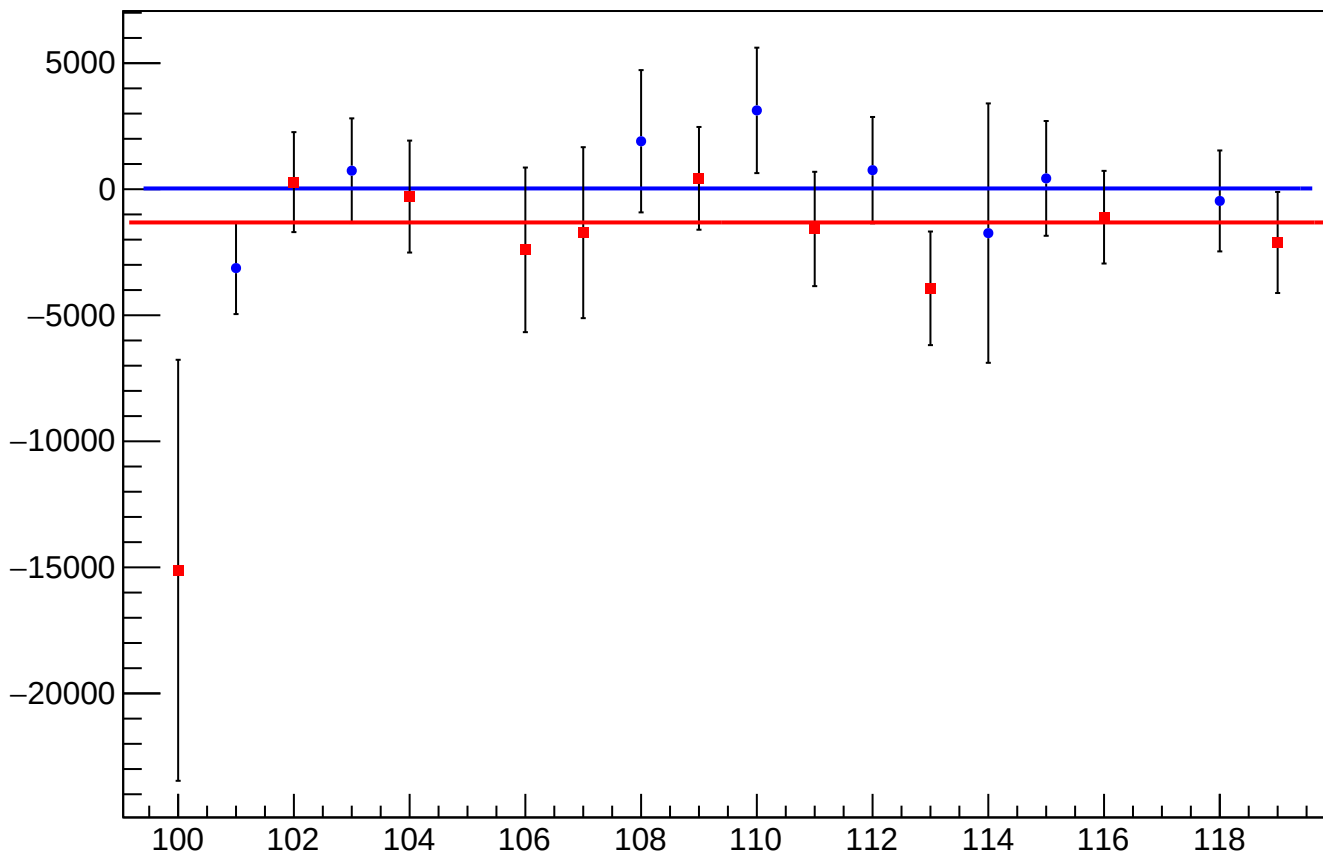
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 112.309 $\pm$ 0.031  $\chi^2$ /NDF: 1107691.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In:  $30.460 \pm 809.904$   $\chi^2/\text{NDF}$ : 5.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1318.188 \pm 739.337$   $\chi^2/\text{NDF}$ : 6.0/9

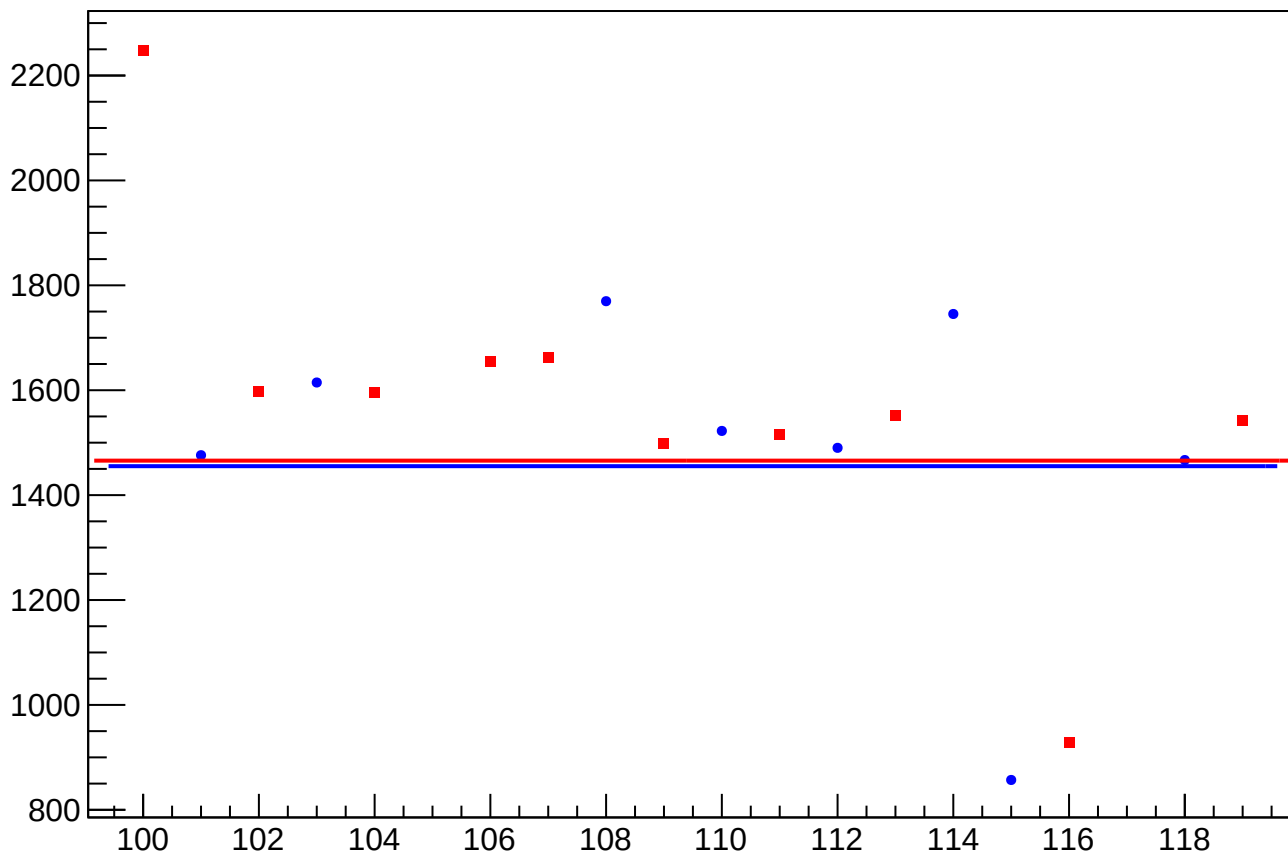
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-705.167 \pm 546.037$   $\chi^2/\text{NDF}$ : 12.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1455.185 $\pm$ 0.573  $\chi^2$ /NDF: 183479.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1465.758 $\pm$ 0.523  $\chi^2$ /NDF: 225309.4/9

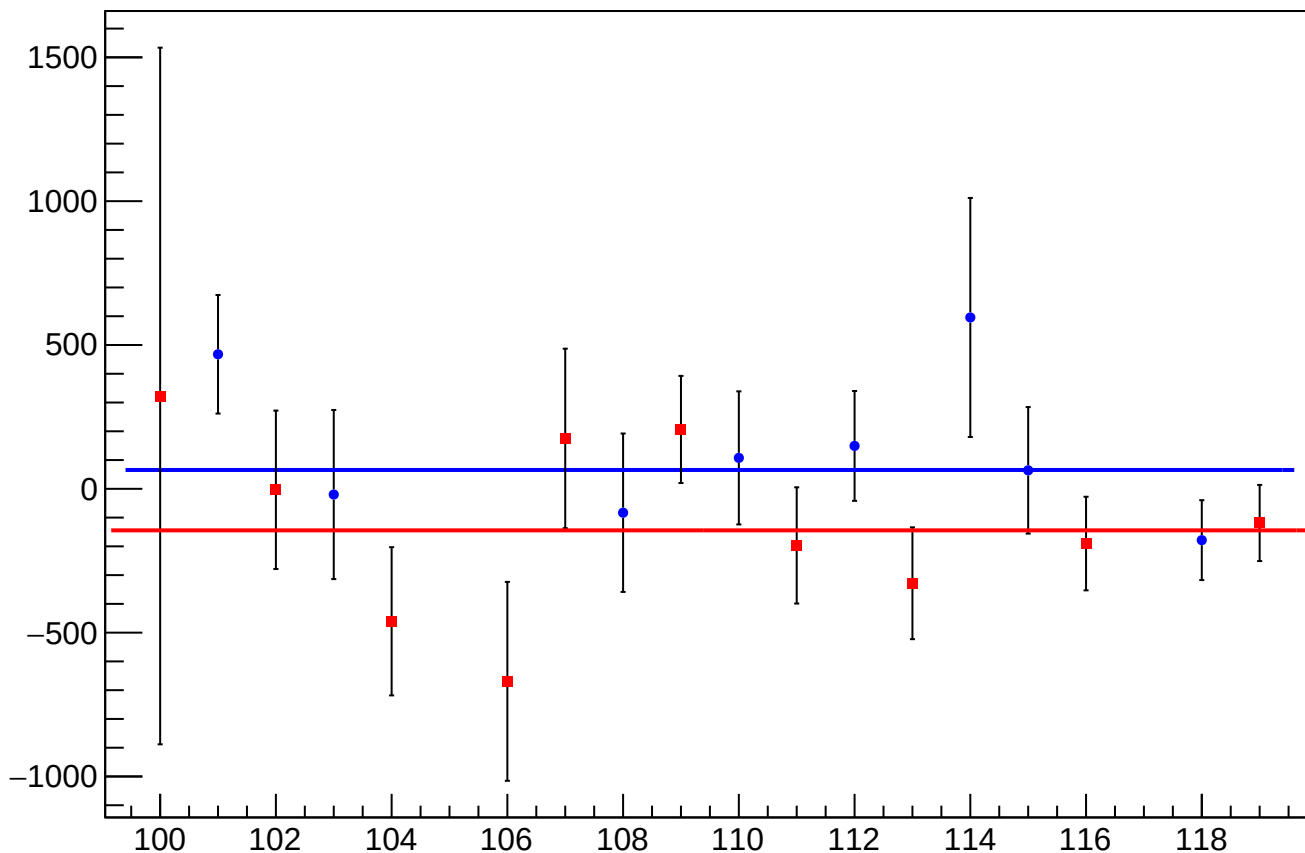
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1460.952 $\pm$ 0.386  $\chi^2$ /NDF: 408974.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 65.520 $\pm$ 76.090  $\chi^2$ /NDF: 9.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -144.385 $\pm$ 67.078  $\chi^2$ /NDF: 9.9/9

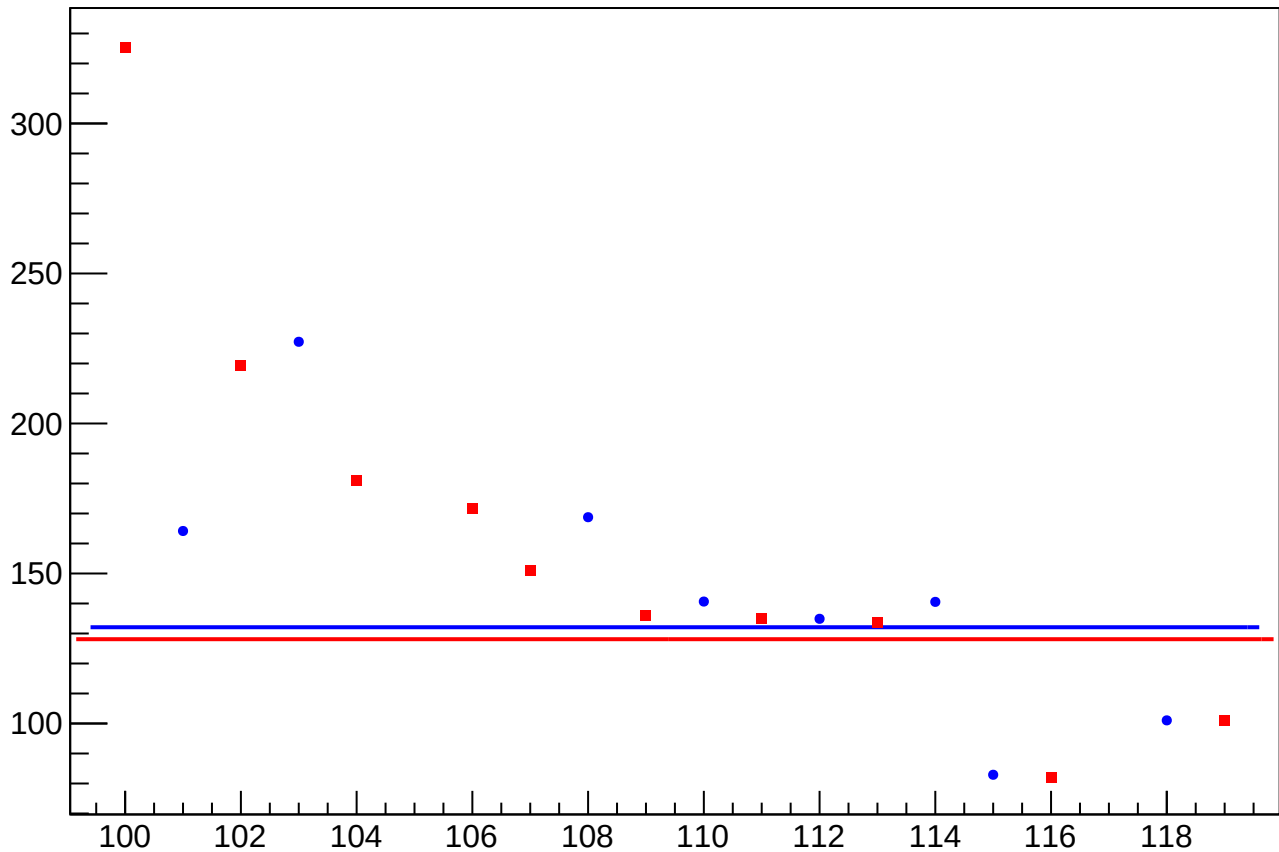
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -52.594 $\pm$ 50.317  $\chi^2$ /NDF: 23.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 132.087+/-0.054  $\chi^2/\text{NDF}$ : 497357.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 128.098+/-0.047  $\chi^2/\text{NDF}$ : 651529.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

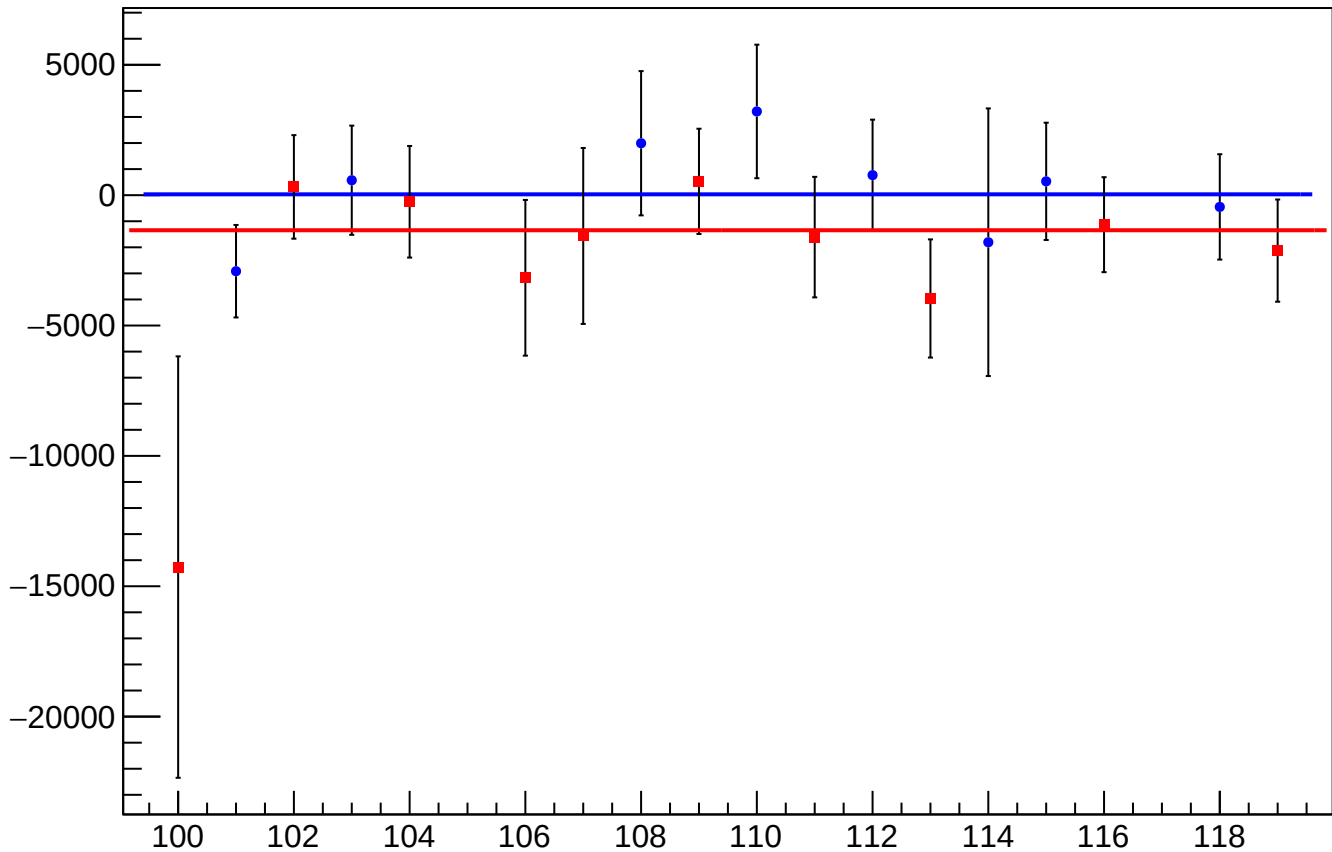
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 129.843+/-0.036  $\chi^2/\text{NDF}$ : 1151979.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_3726\_avg\_dit\_correction\_mean vs Slug



Right In: 32.716+/-808.310  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1344.847+/-730.097  $\chi^2$ /NDF: 6.3/9

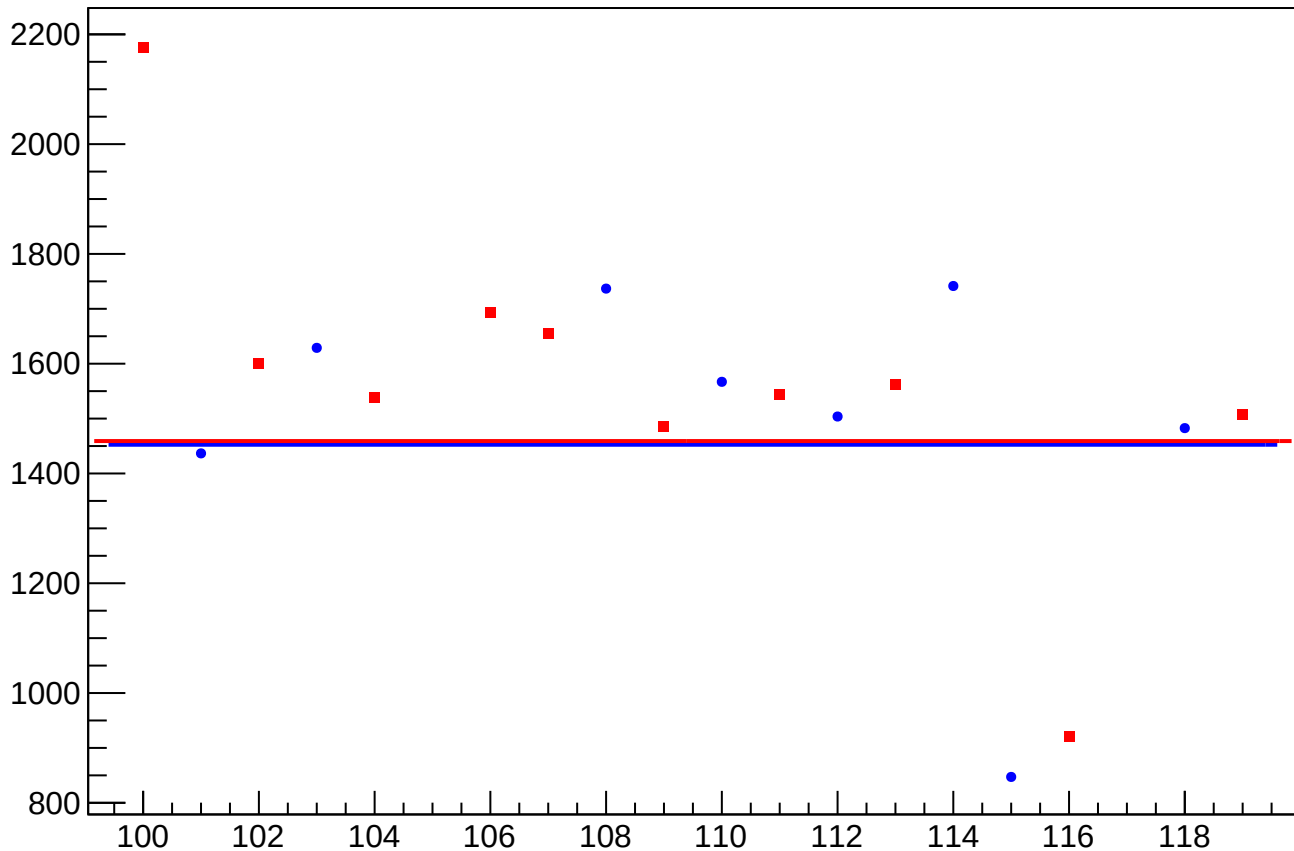
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -725.920+/-541.803  $\chi^2$ /NDF: 13.1/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_3726\_avg\_dit\_correction\_rms vs Slug



Right In: 1452.361+/-0.572  $\chi^2/\text{NDF}$ : 192301.5/7

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

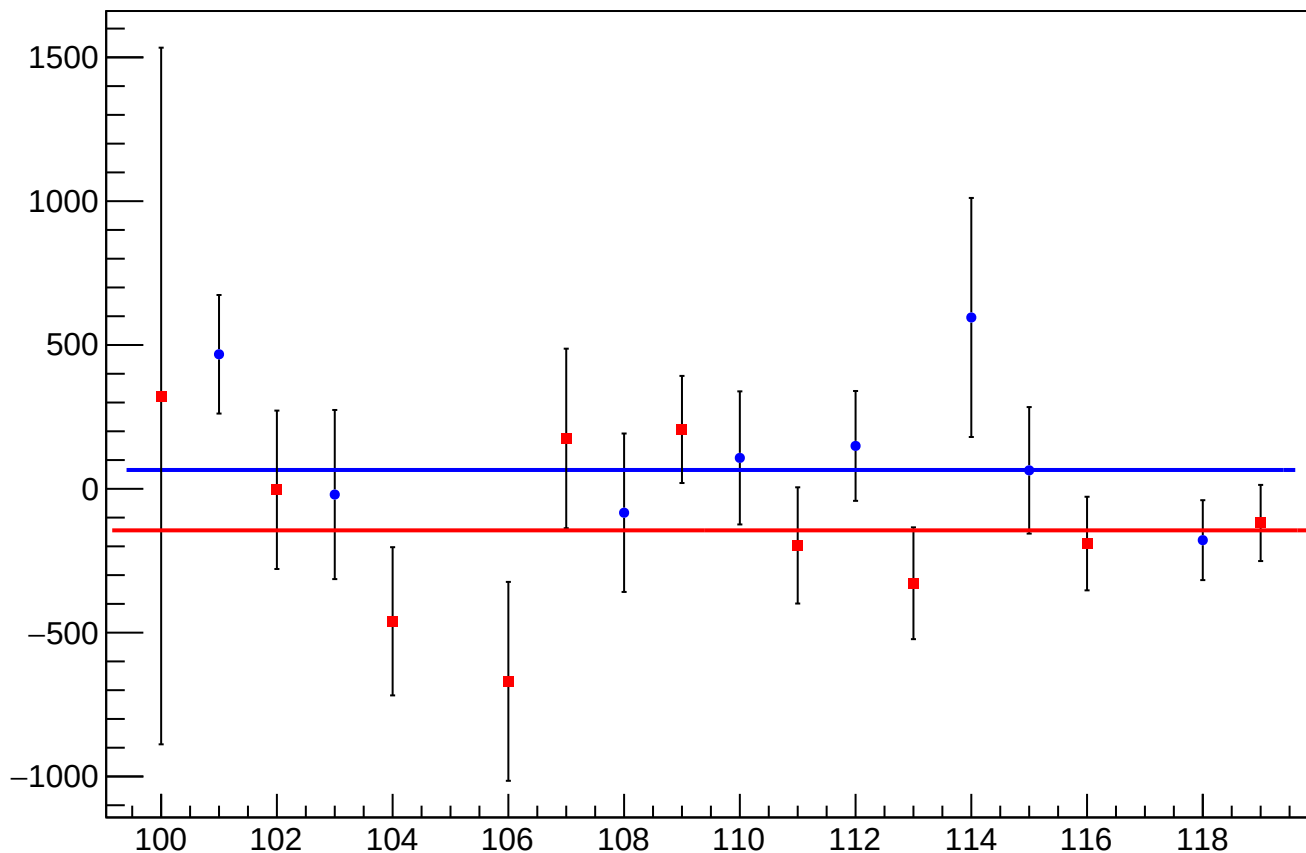
Right Out: 1459.064+/-0.516  $\chi^2/\text{NDF}$ : 230840.6/9

All: 1456.053+/-0.383  $\chi^2/\text{NDF}$ : 423217.8/17

- 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\_sam\_3726\_avg\_mean vs Slug



Right In: 65.519 $\pm$ 76.090  $\chi^2$ /NDF: 9.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -144.382 $\pm$ 67.078  $\chi^2$ /NDF: 9.9/9

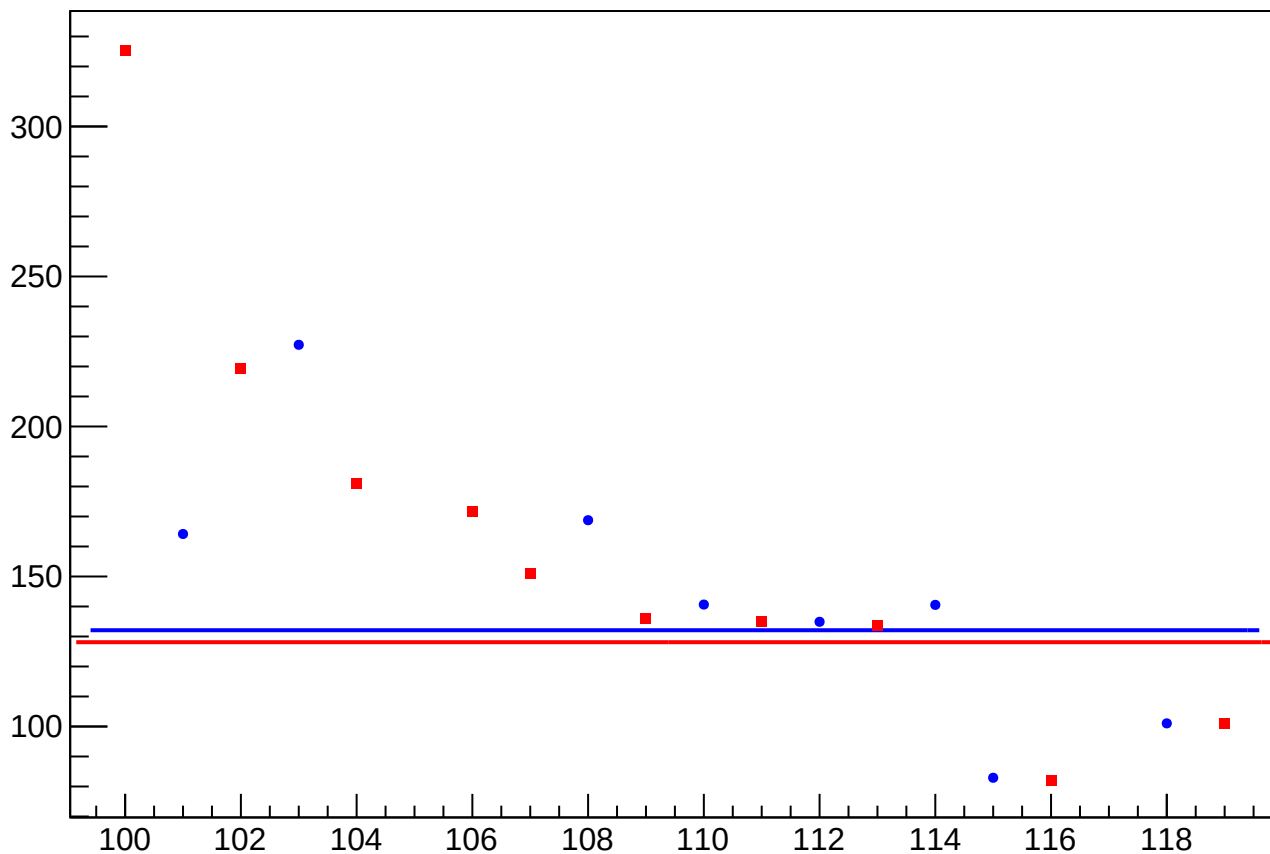
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -52.592 $\pm$ 50.317  $\chi^2$ /NDF: 23.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 132.087 $\pm$ 0.054  $\chi^2$ /NDF: 497355.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 128.099 $\pm$ 0.047  $\chi^2$ /NDF: 651524.0/9

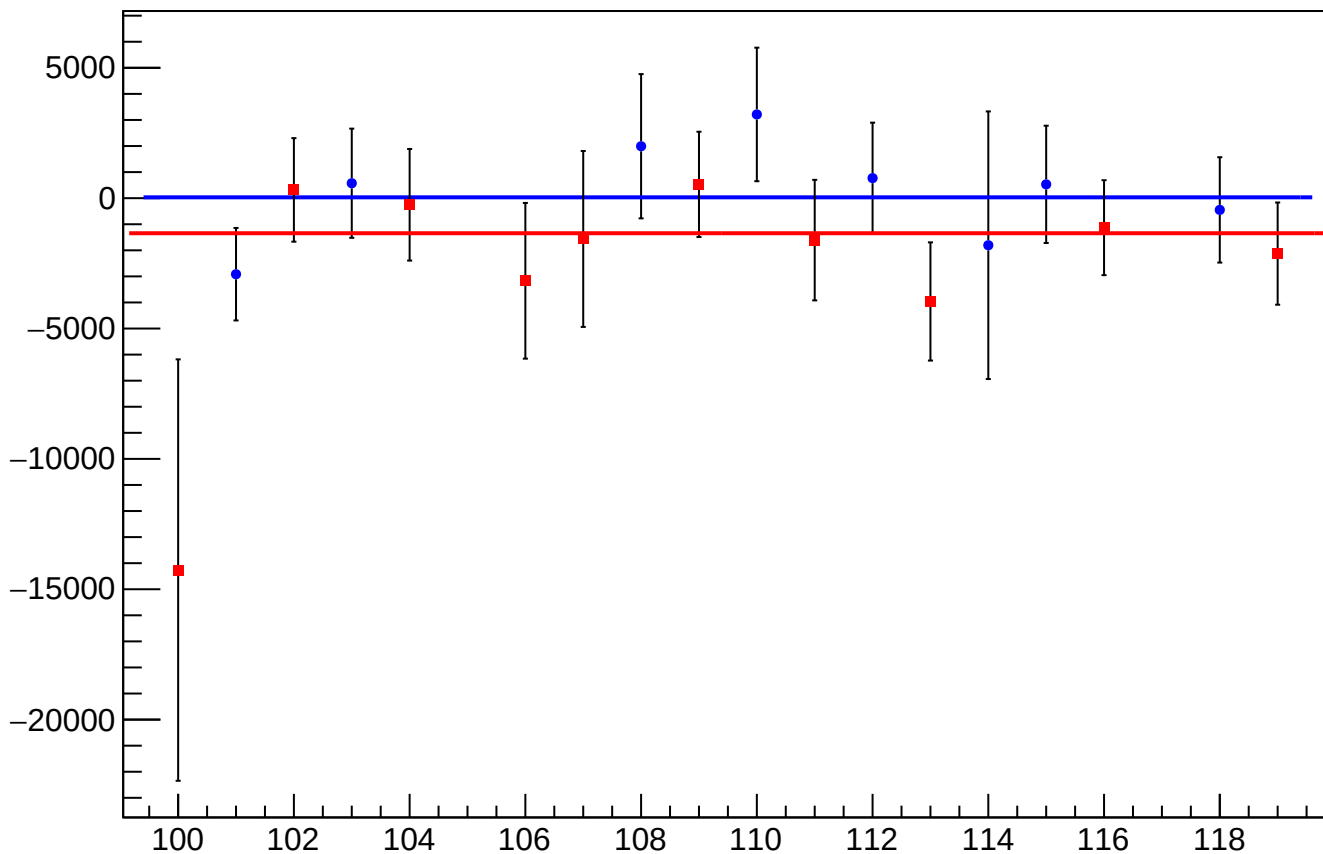
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 129.843 $\pm$ 0.036  $\chi^2$ /NDF: 1151970.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 32.718+/-808.308  $\chi^2$ /NDF: 5.2/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1344.844+/-730.095  $\chi^2$ /NDF: 6.3/9

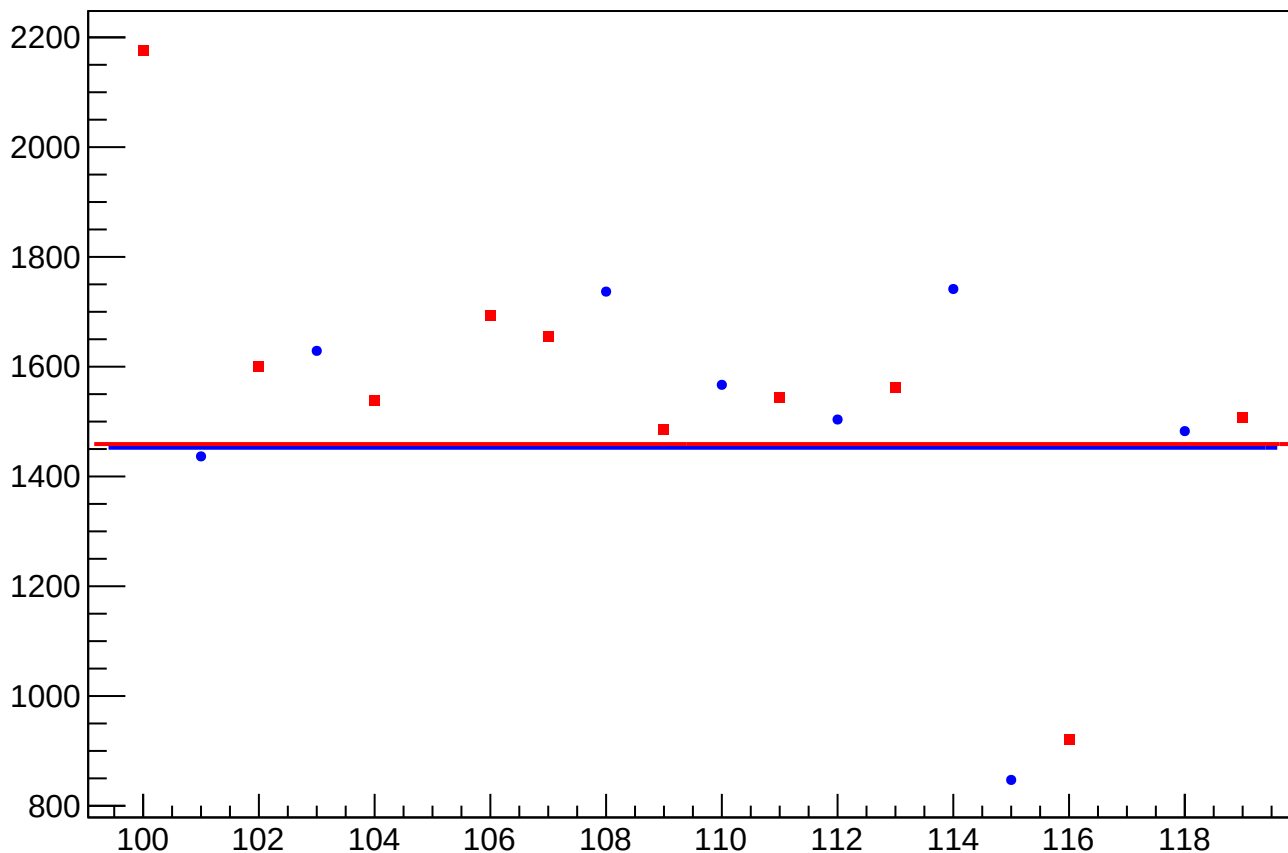
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -725.918+/-541.802  $\chi^2$ /NDF: 13.1/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1452.358+/-0.572  $\chi^2/\text{NDF}$ : 192297.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1459.061+/-0.516  $\chi^2/\text{NDF}$ : 230837.1/9

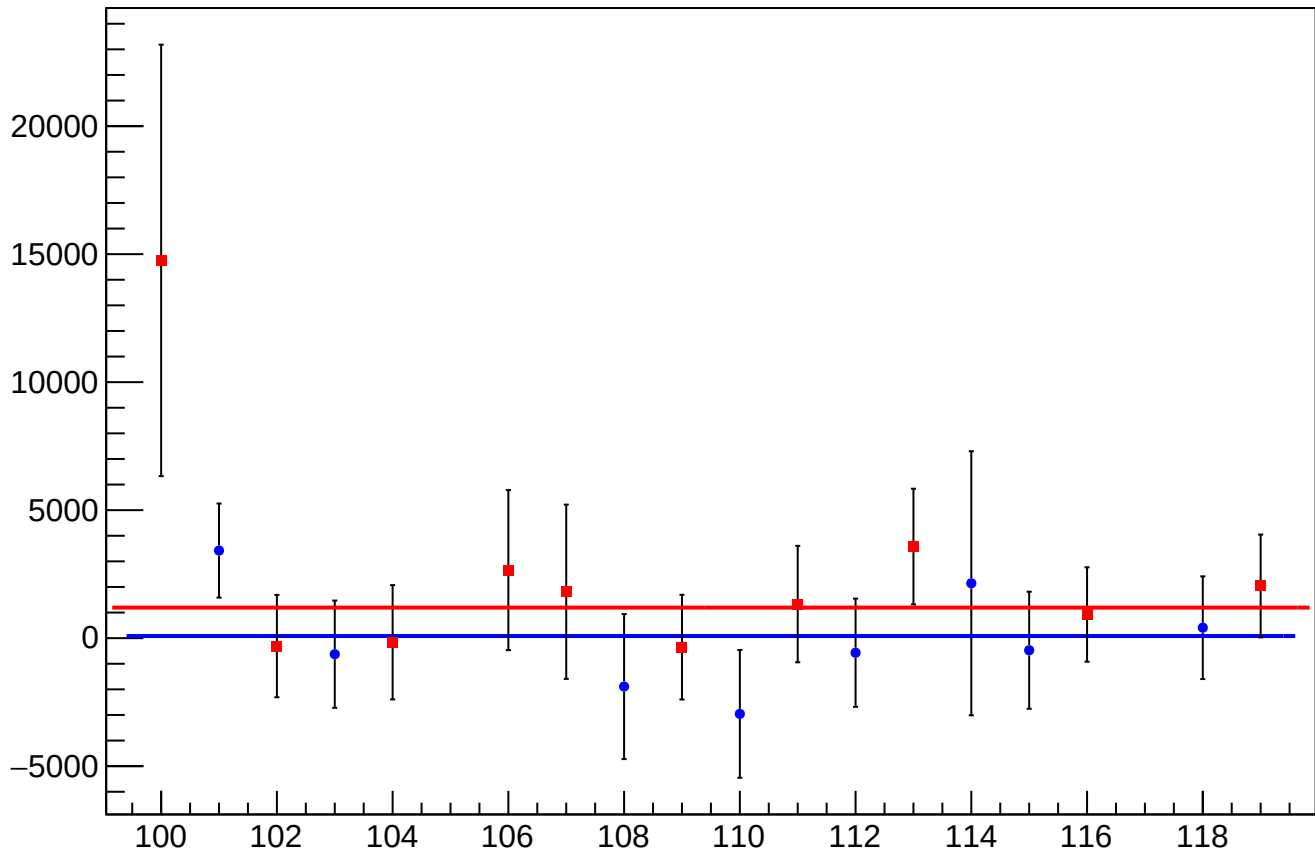
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1456.049+/-0.383  $\chi^2/\text{NDF}$ : 423210.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3726\_avg\_mean vs Slug



Right In: 83.173+/-813.739  $\chi^2/\text{NDF}$ : 5.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1194.298+/-740.481  $\chi^2/\text{NDF}$ : 5.7/9

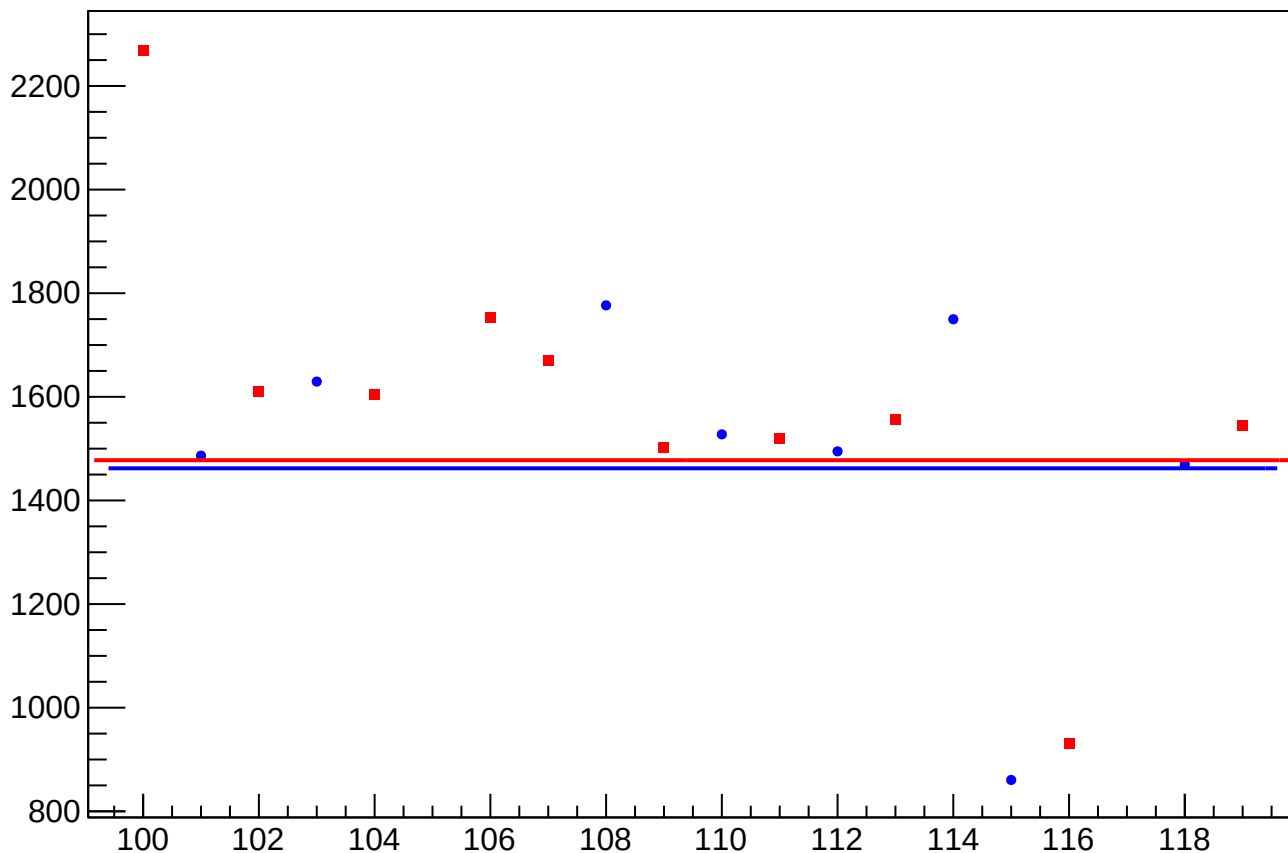
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 690.992+/-547.671  $\chi^2/\text{NDF}$ : 12.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3726\_avg\_rms vs Slug



Right In: 1462.040 $\pm$ 0.575  $\chi^2$ /NDF: 184369.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1477.656 $\pm$ 0.524  $\chi^2$ /NDF: 236204.8/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

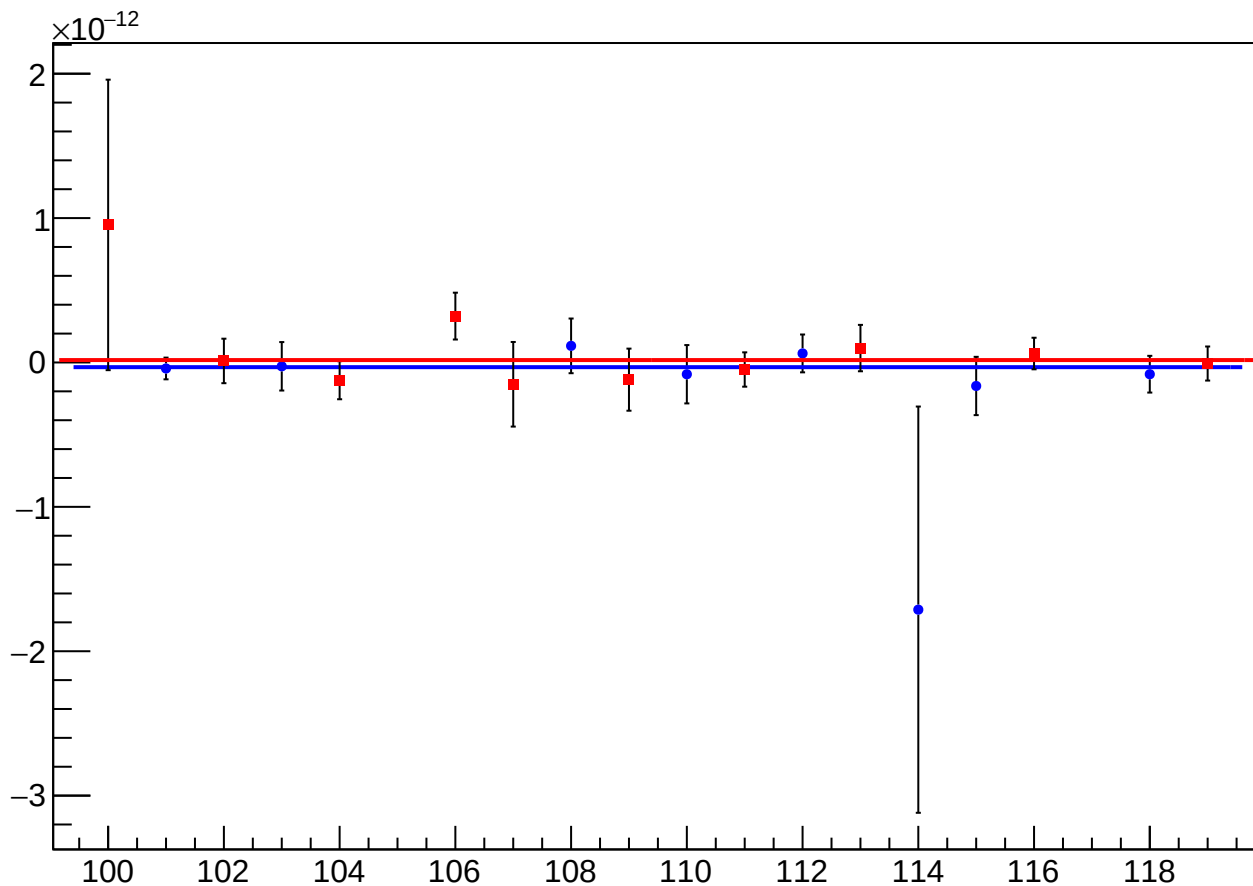
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1470.582 $\pm$ 0.387  $\chi^2$ /NDF: 420976.9/17

- 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  $\chi^2/\text{NDF}$ : 3.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.0/9

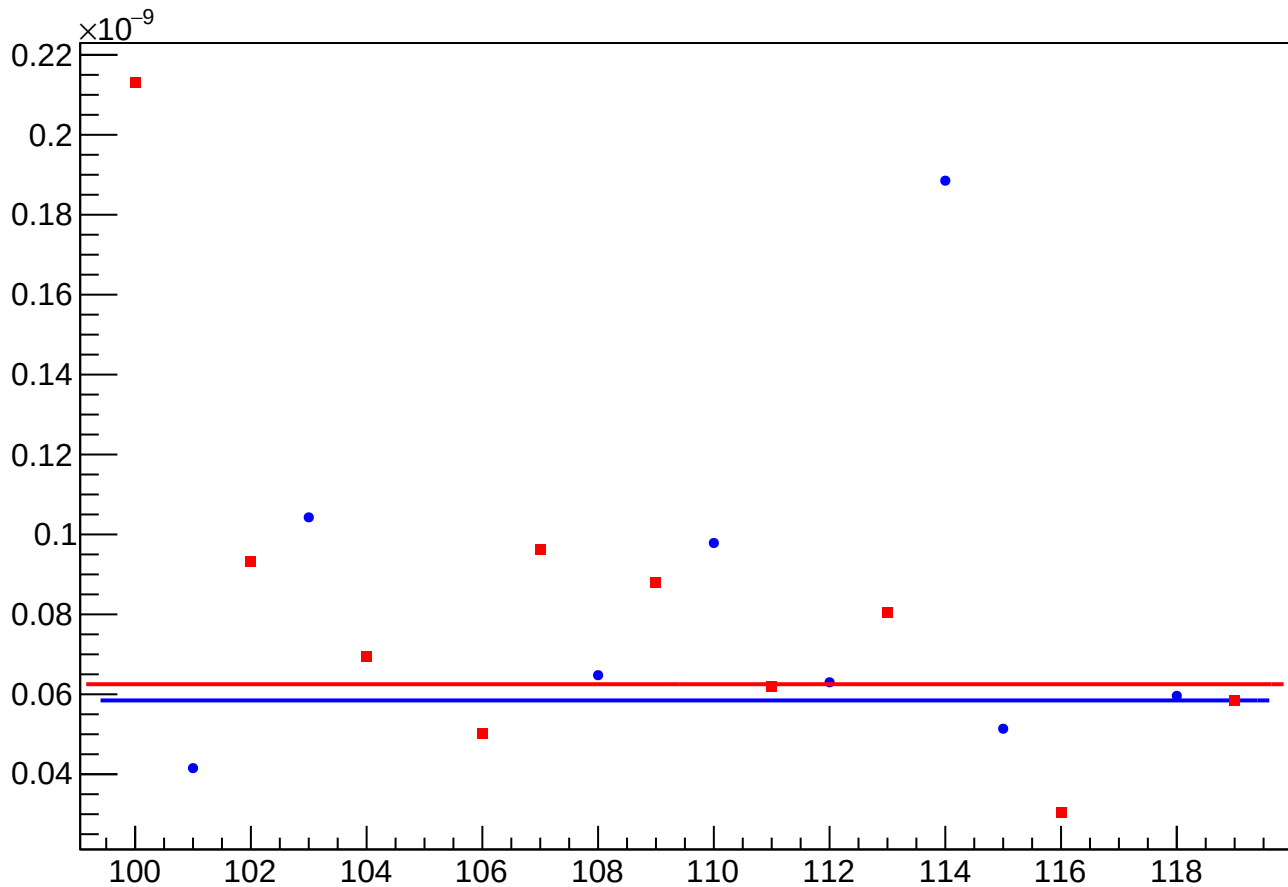
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 350901.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 395538.1/9

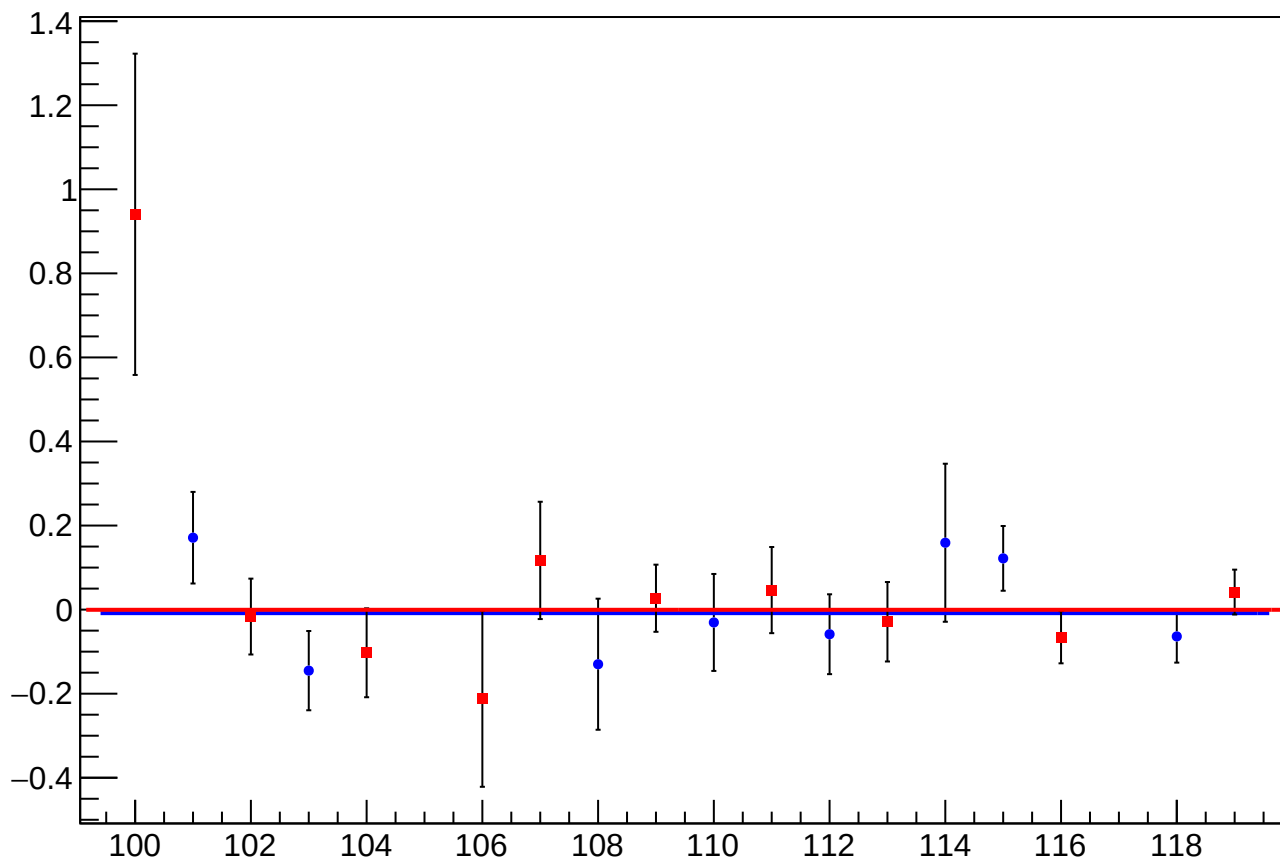
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 753405.3/17

- 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: -0.008 $\pm$ 0.034  $\chi^2$ /NDF: 10.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.028  $\chi^2$ /NDF: 10.9/9

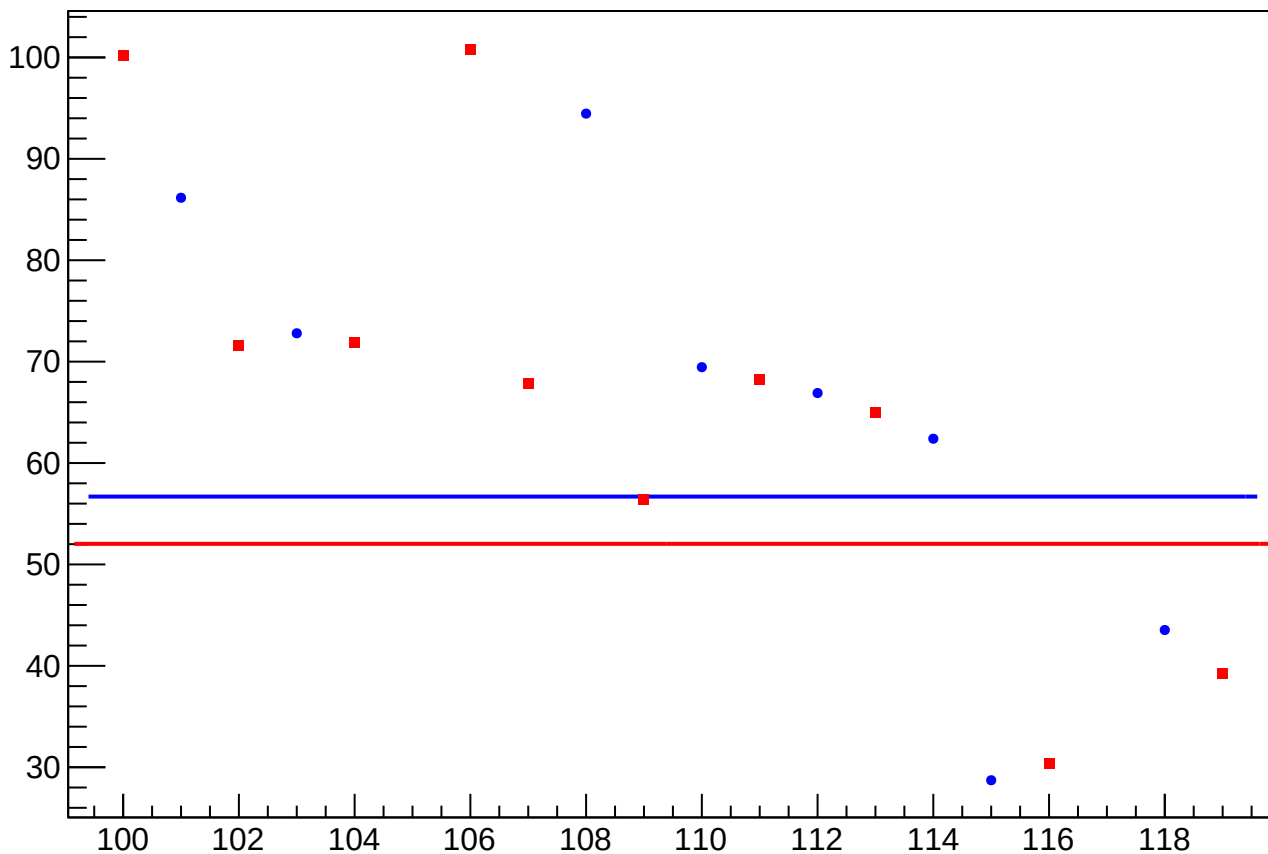
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.004 $\pm$ 0.022  $\chi^2$ /NDF: 21.1/17

- 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: 56.693+/-0.024  $\chi^2/\text{NDF}$ : 724291.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.031+/-0.020  $\chi^2/\text{NDF}$ : 781433.5/9

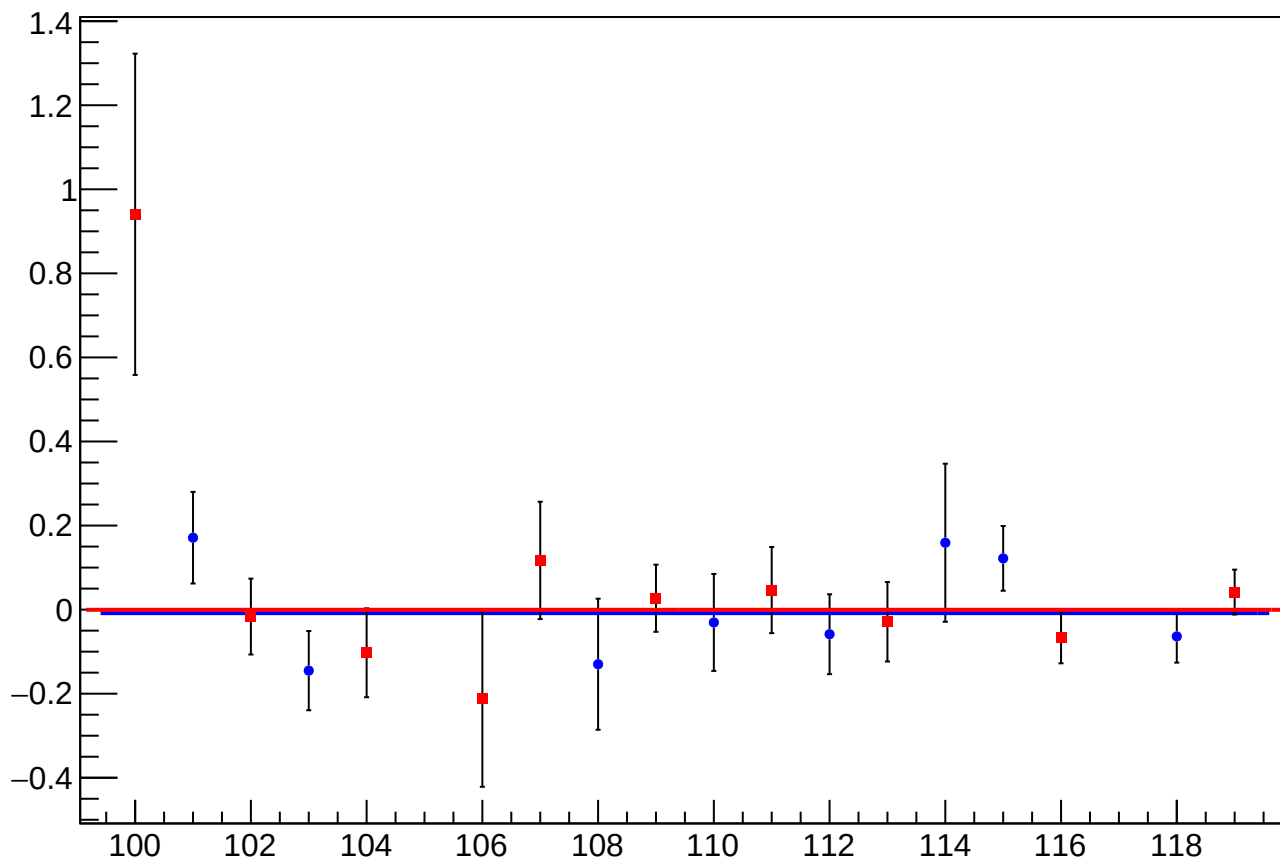
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.938+/-0.015  $\chi^2/\text{NDF}$ : 1528276.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.034  $\chi^2$ /NDF: 10.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.028  $\chi^2$ /NDF: 10.9/9

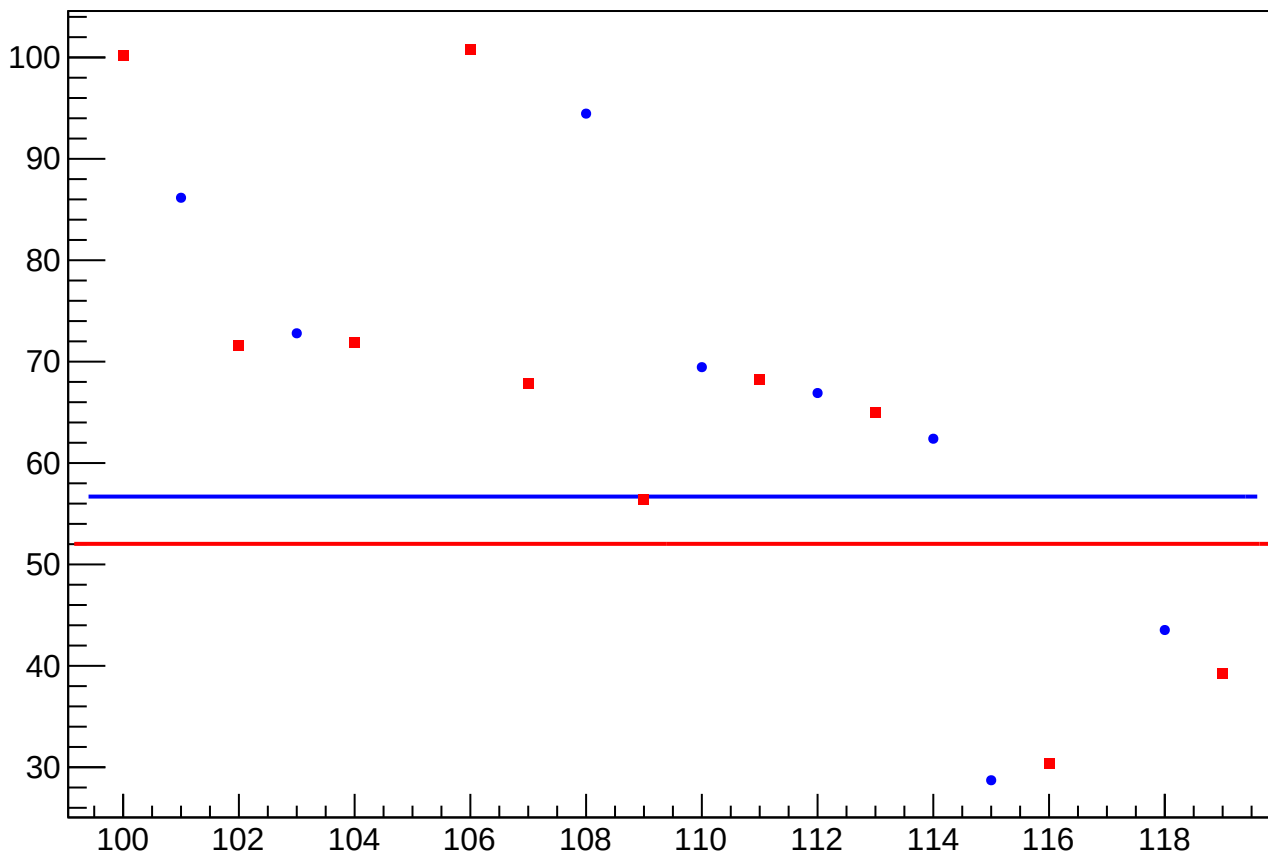
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.004 $\pm$ 0.022  $\chi^2$ /NDF: 21.1/17

- 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: 56.693+/-0.024  $\chi^2/\text{NDF}$ : 724291.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.031+/-0.020  $\chi^2/\text{NDF}$ : 781433.5/9

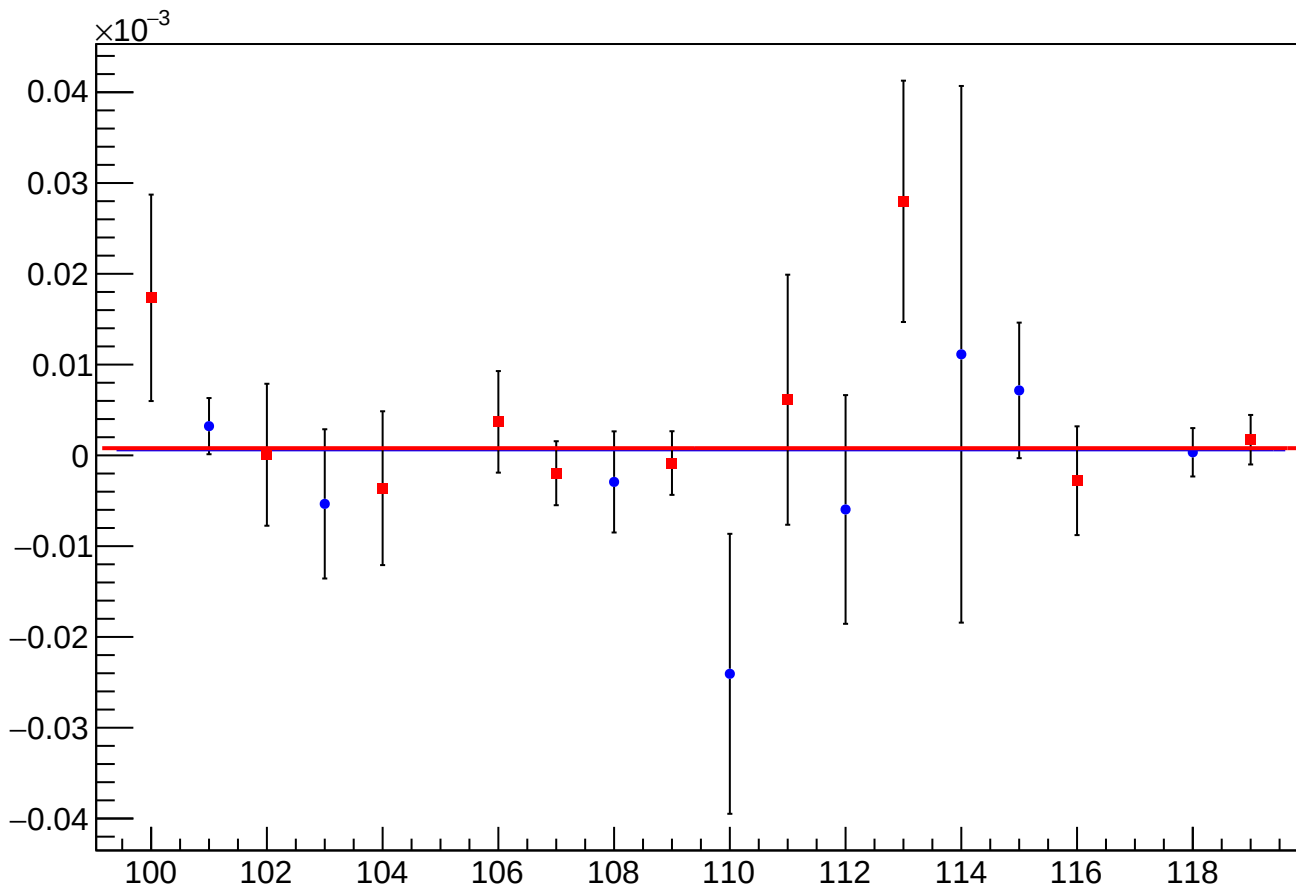
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.938+/-0.015  $\chi^2/\text{NDF}$ : 1528276.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.3/9

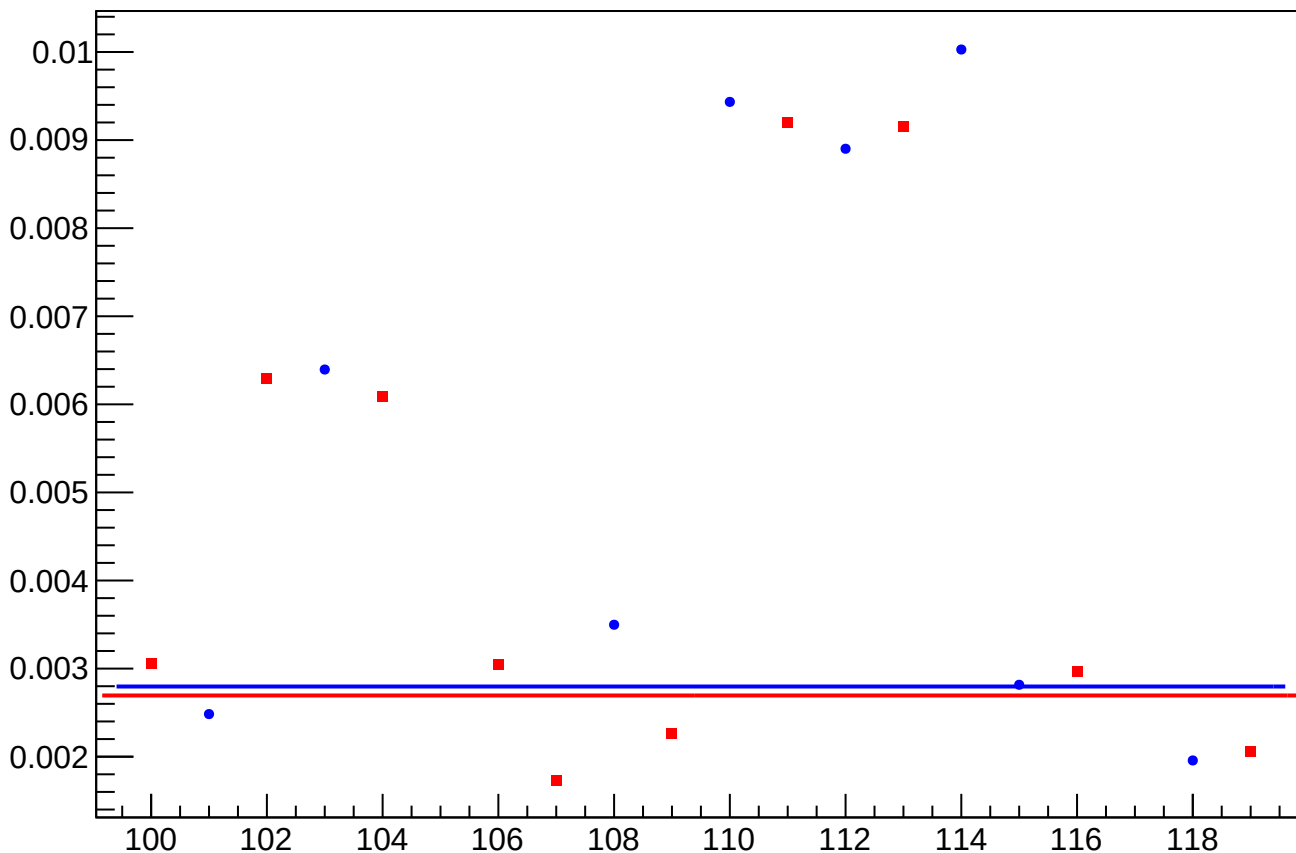
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1593818.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1967774.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

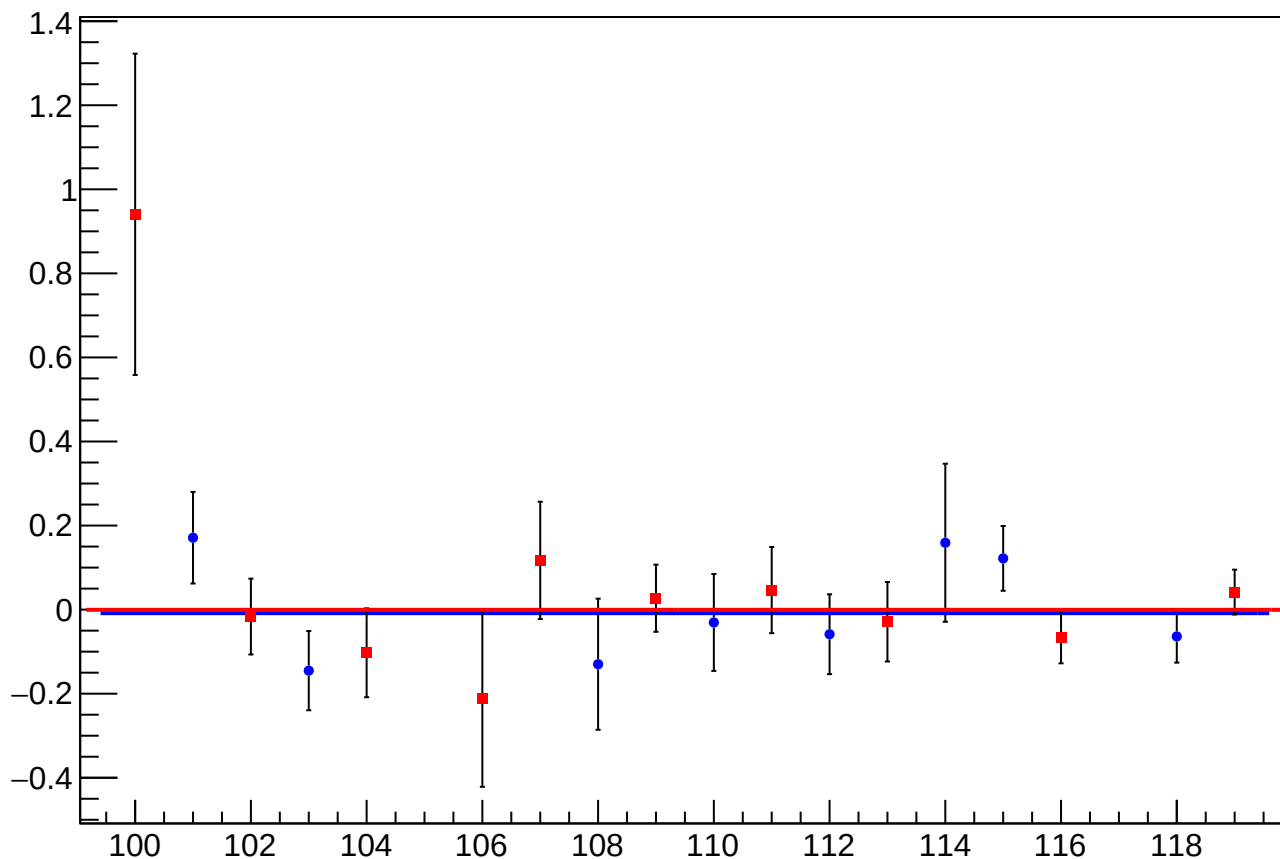
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 3565320.7/17

- 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:  $-0.008 \pm 0.034$   $\chi^2/\text{NDF}$ : 10.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.028$   $\chi^2/\text{NDF}$ : 10.9/9

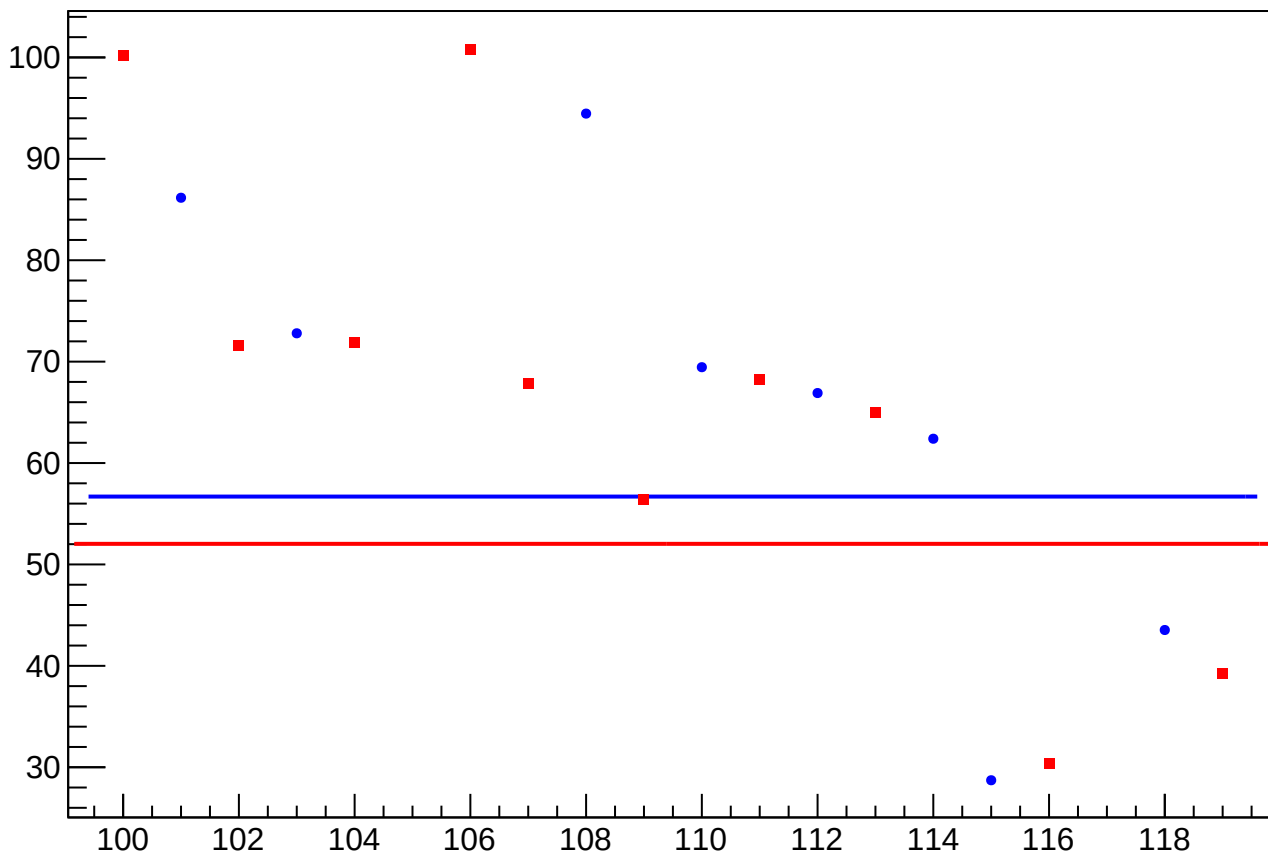
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.004 \pm 0.022$   $\chi^2/\text{NDF}$ : 21.1/17

- 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: 56.693+/-0.024  $\chi^2/\text{NDF}$ : 724261.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.031+/-0.020  $\chi^2/\text{NDF}$ : 781393.1/9

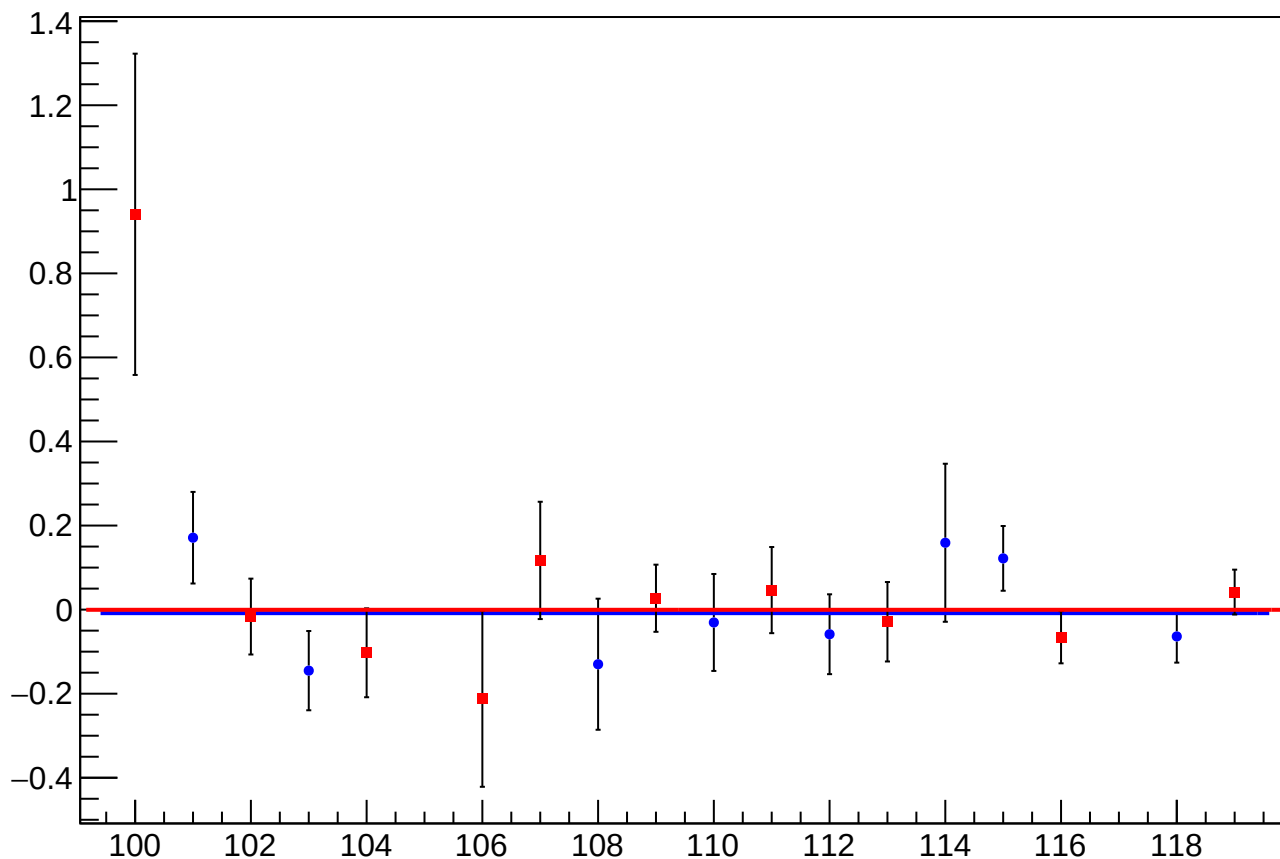
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.938+/-0.015  $\chi^2/\text{NDF}$ : 1528203.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.034  $\chi^2$ /NDF: 10.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.028  $\chi^2$ /NDF: 10.9/9

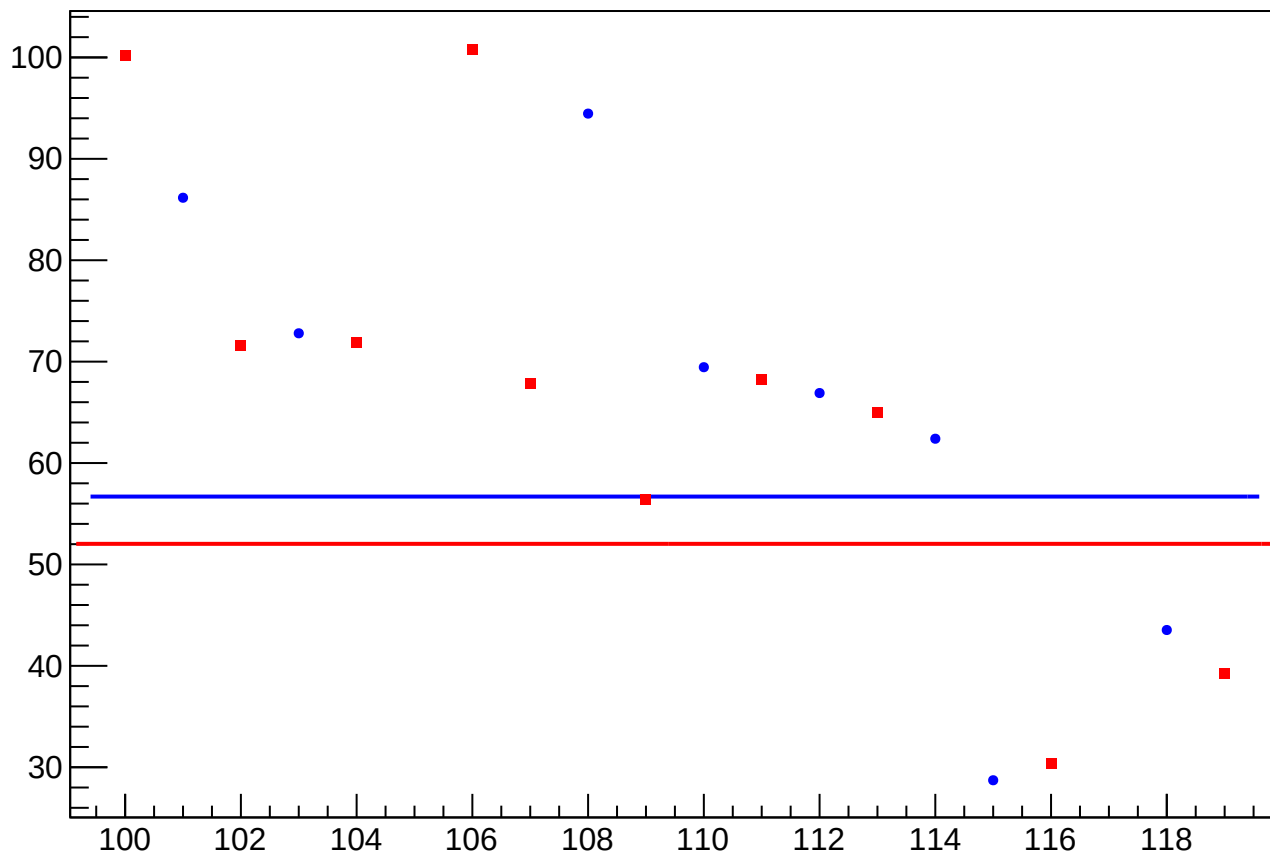
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.004 $\pm$ 0.022  $\chi^2$ /NDF: 21.1/17

- 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: 56.693+/-0.024  $\chi^2/\text{NDF}$ : 724261.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.031+/-0.020  $\chi^2/\text{NDF}$ : 781393.1/9

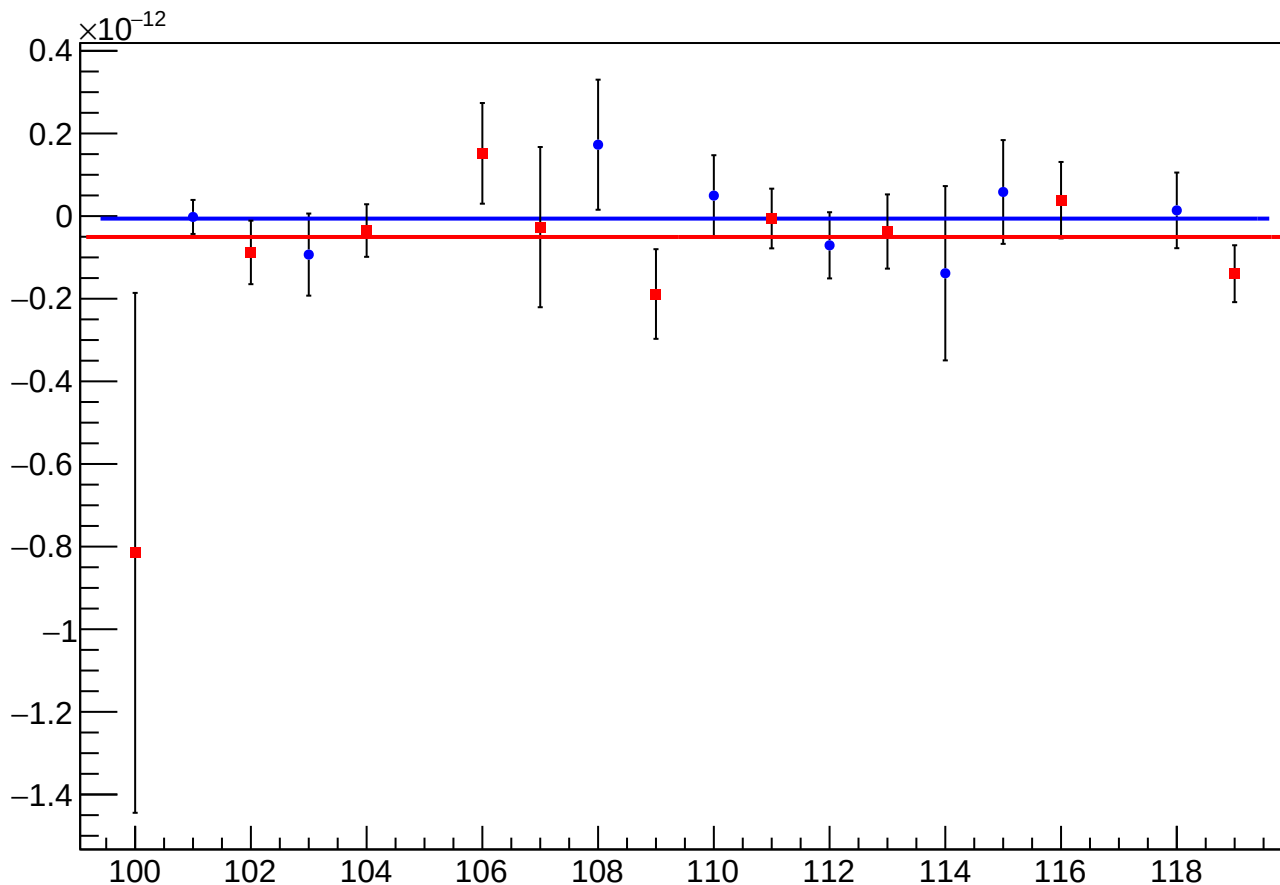
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.938+/-0.015  $\chi^2/\text{NDF}$ : 1528203.2/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 3.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.2/9

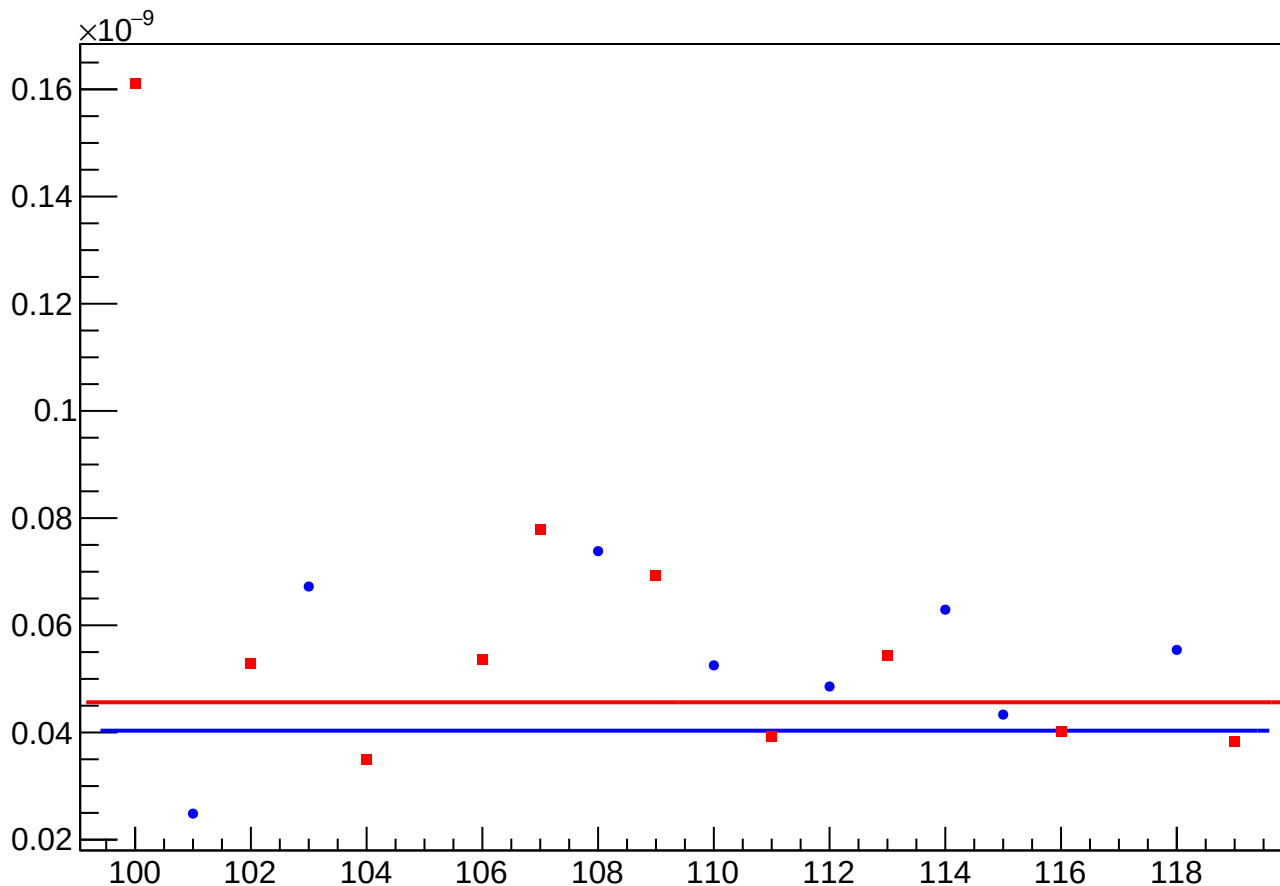
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 650269.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 364144.6/9

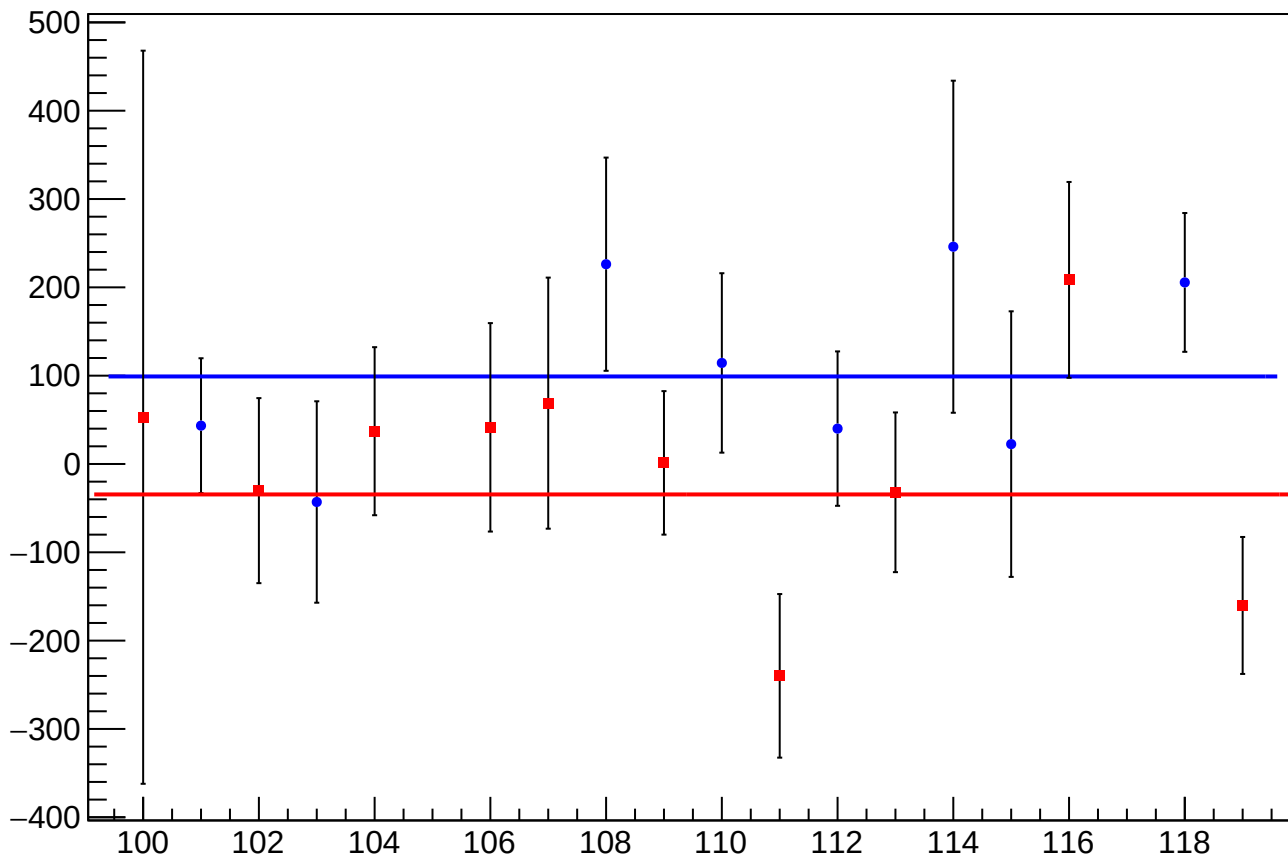
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1048633.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 99.101+/-35.819  $\chi^2/\text{NDF}$ : 6.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -34.476+/-32.162  $\chi^2/\text{NDF}$ : 14.1/9

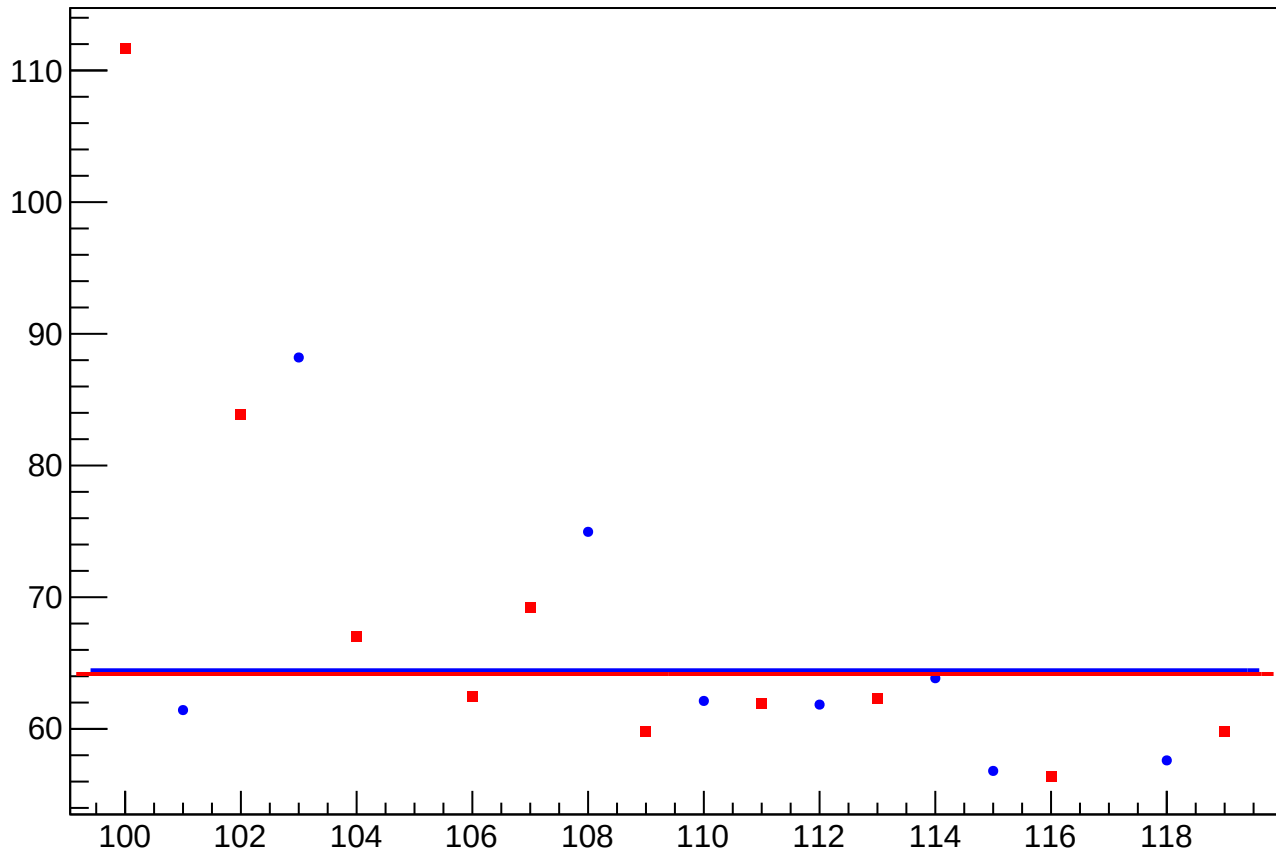
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.147+/-23.931  $\chi^2/\text{NDF}$ : 28.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 64.451+/-0.025  $\chi^2/\text{NDF}$ : 128242.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.170+/-0.023  $\chi^2/\text{NDF}$ : 125577.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

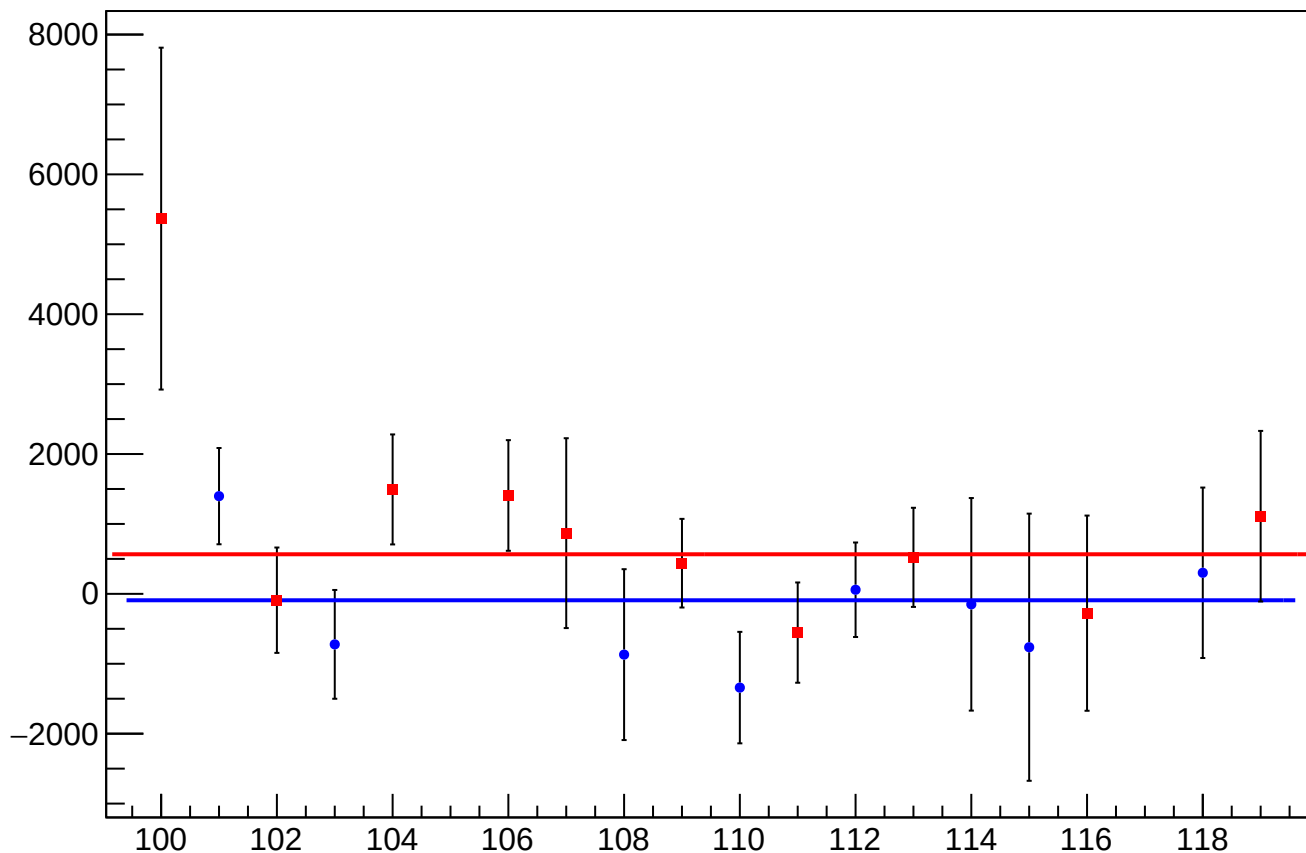
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.296+/-0.017  $\chi^2/\text{NDF}$ : 253888.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_48\_dd\_reg\_correction\_mean vs Slug



Right In:  $-91.901 \pm 323.200$   $\chi^2/\text{NDF}$ : 8.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $566.150 \pm 274.292$   $\chi^2/\text{NDF}$ : 10.2/9

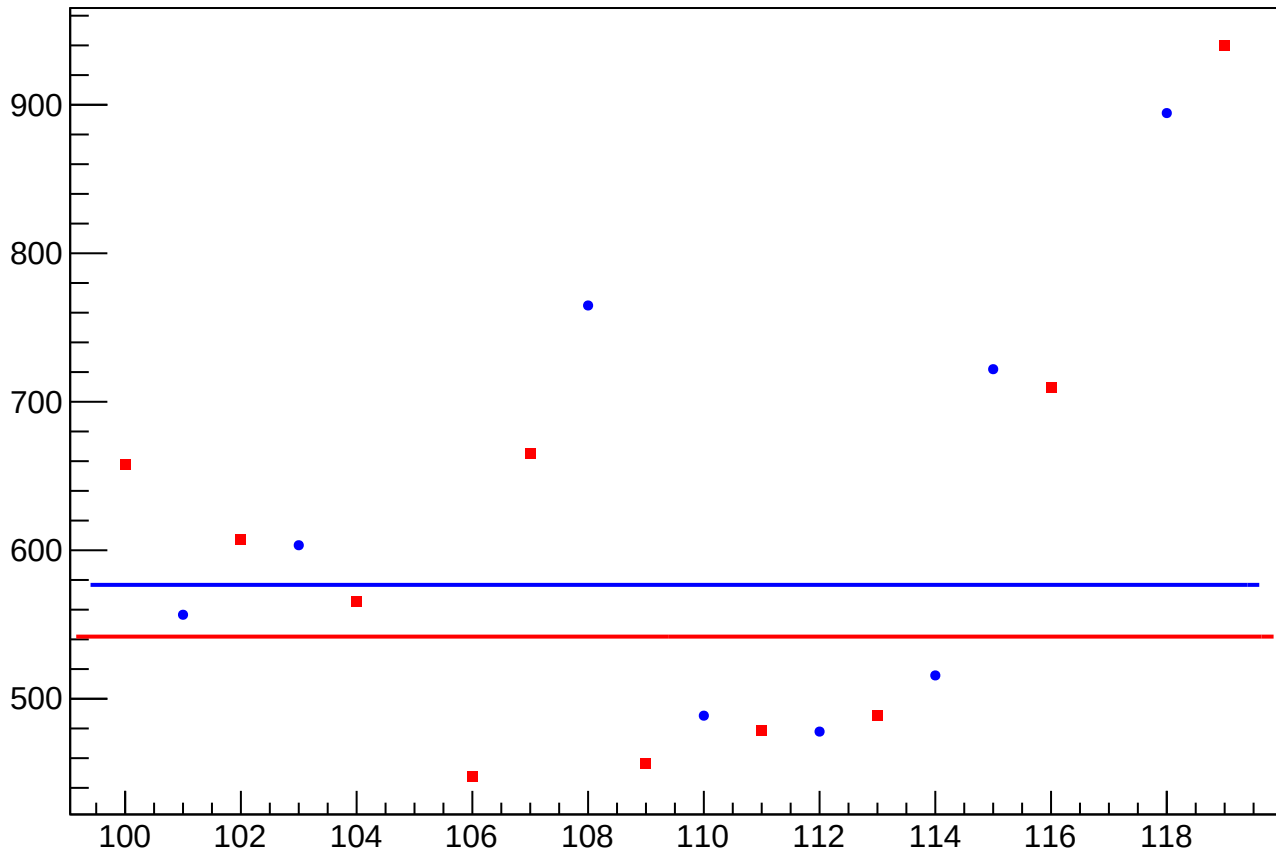
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $290.631 \pm 209.131$   $\chi^2/\text{NDF}$ : 21.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_reg\_correction\_rms vs Slug



Right In: 576.703+/-0.229  $\chi^2/\text{NDF}$ : 269267.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 541.863+/-0.194  $\chi^2/\text{NDF}$ : 370671.6/9

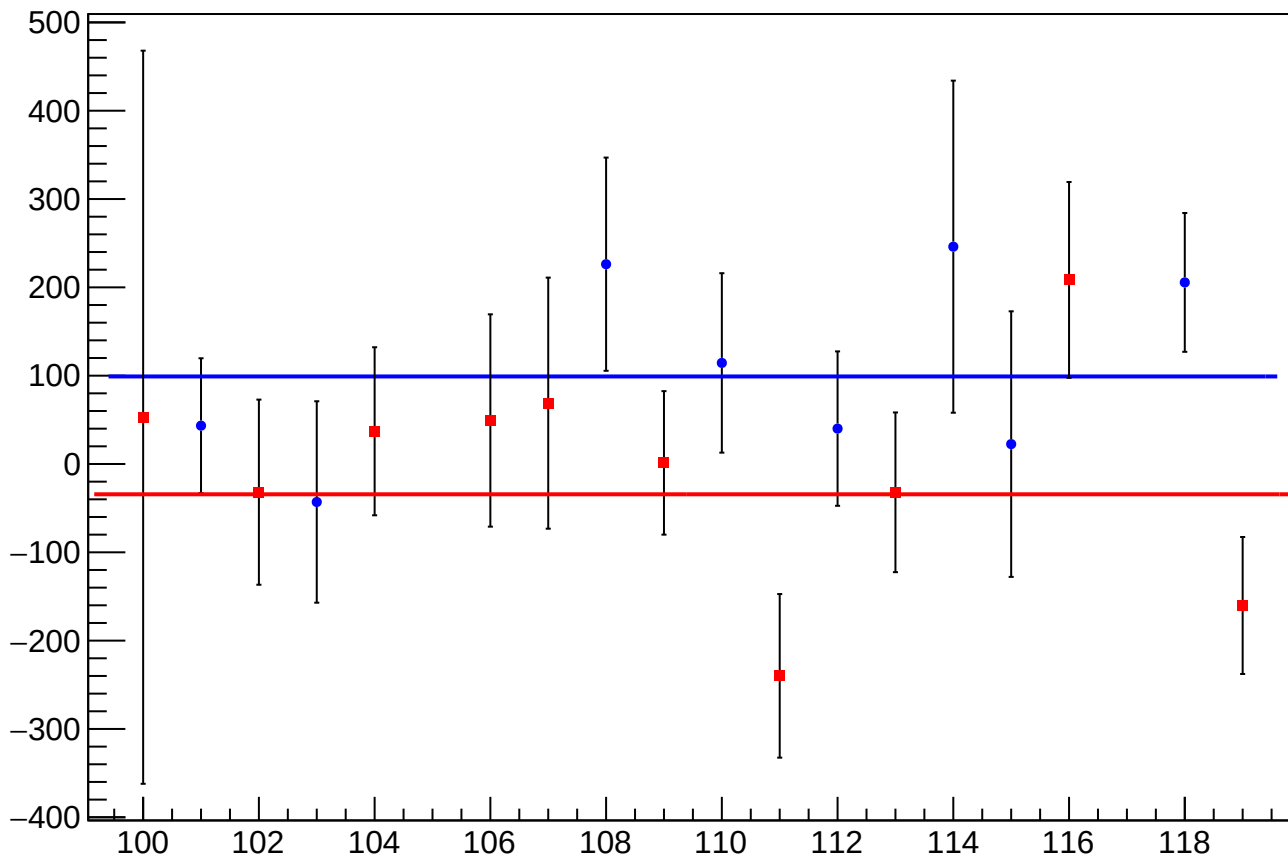
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 556.450+/-0.148  $\chi^2/\text{NDF}$ : 653448.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 99.118 $\pm$ 35.819  $\chi^2$ /NDF: 6.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -34.307 $\pm$ 32.207  $\chi^2$ /NDF: 14.2/9

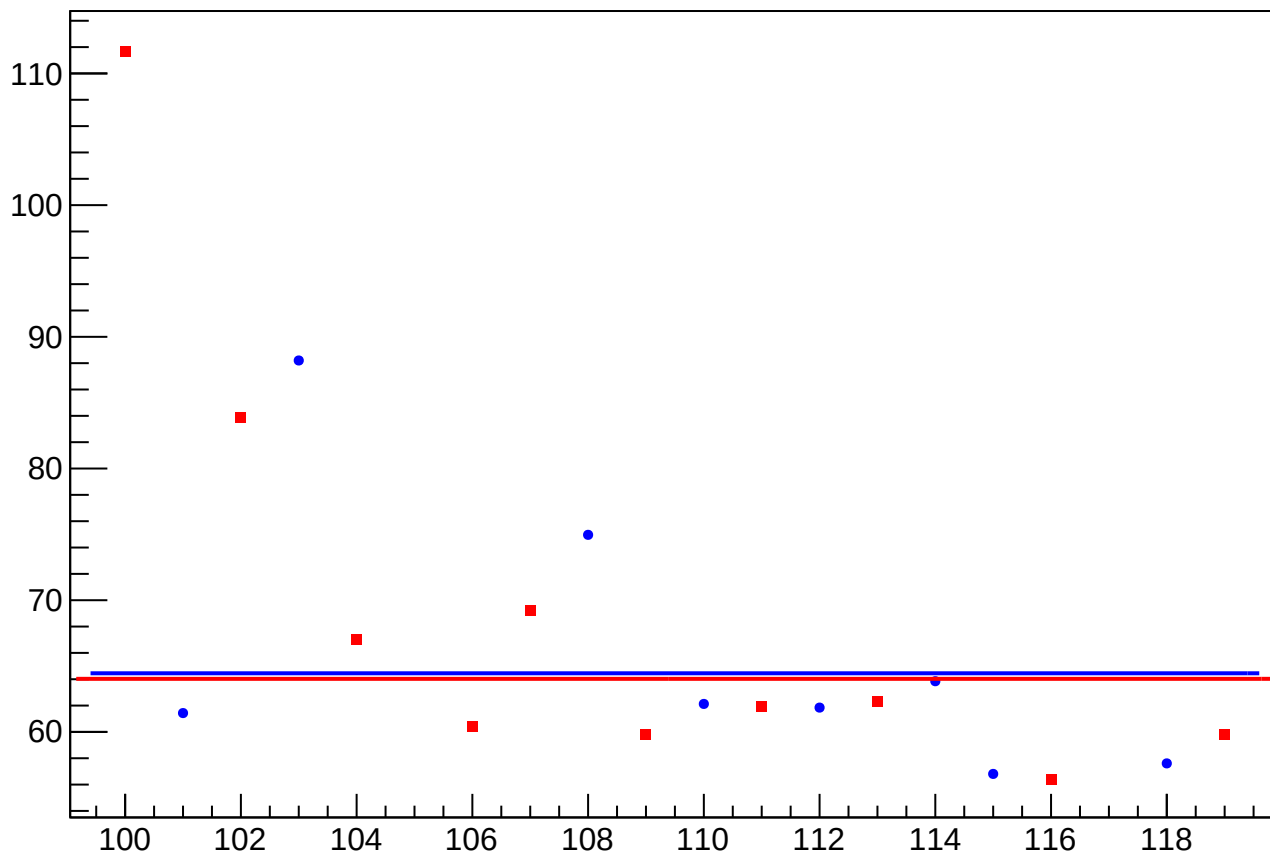
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.340 $\pm$ 23.949  $\chi^2$ /NDF: 28.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 64.451+/-0.025  $\chi^2/\text{NDF}$ : 128245.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.030+/-0.023  $\chi^2/\text{NDF}$ : 127266.9/9

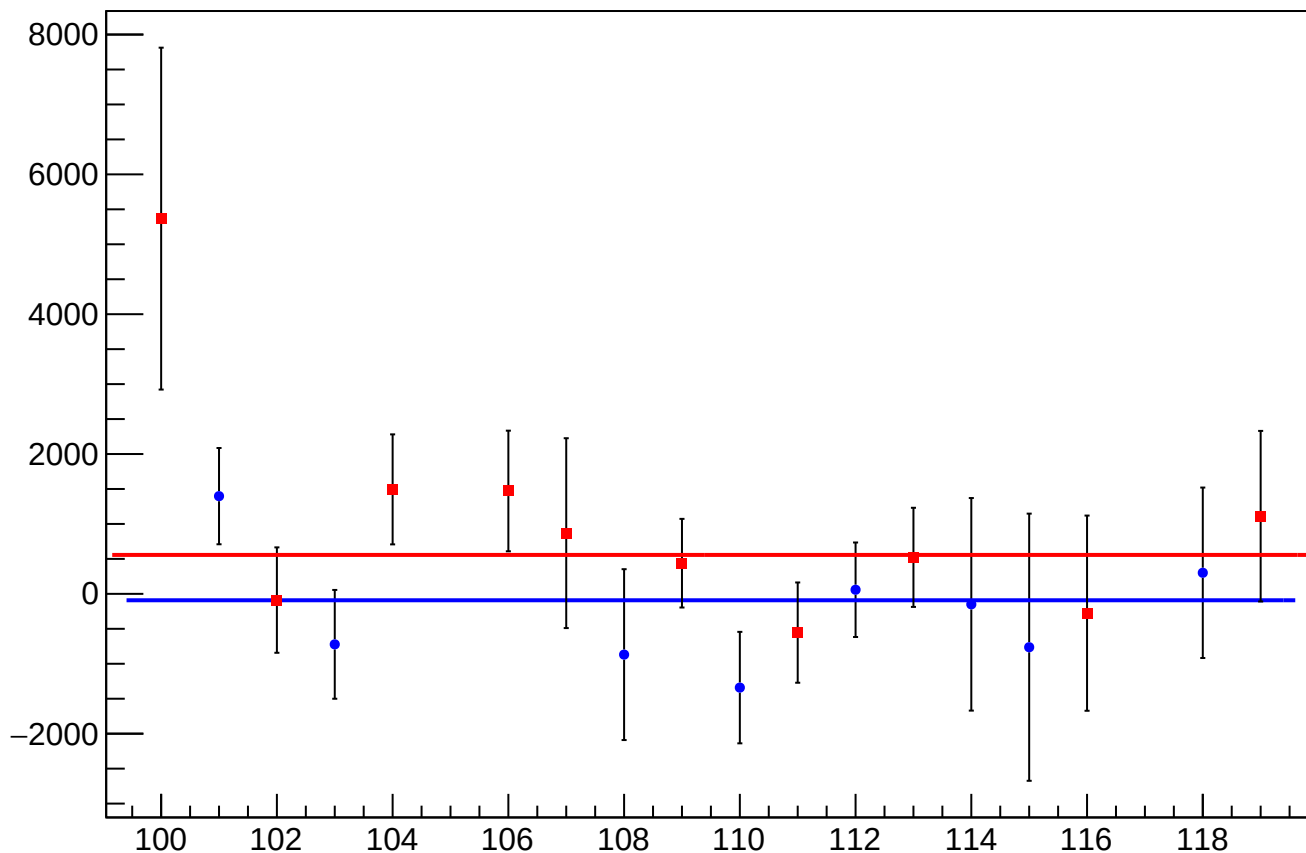
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.218+/-0.017  $\chi^2/\text{NDF}$ : 255665.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_cor\_correction\_mean vs Slug



Right In: -91.835+/-323.204  $\chi^2/\text{NDF}$ : 8.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 556.816+/-276.963  $\chi^2/\text{NDF}$ : 10.2/9

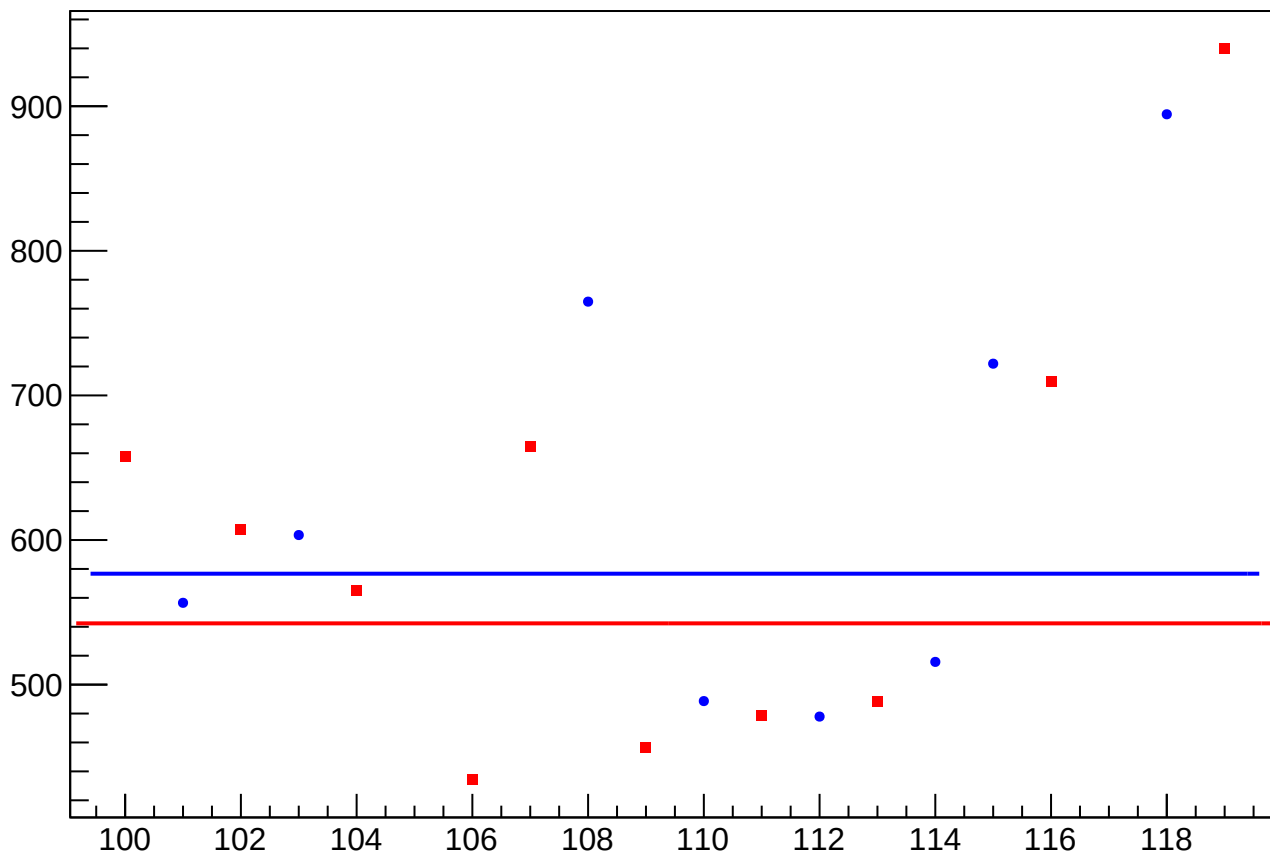
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 282.172+/-210.308  $\chi^2/\text{NDF}$ : 21.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_cor\_correction\_rms vs Slug



Right In: 576.710 $\pm$ 0.229  $\chi^2$ /NDF: 269274.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 542.366 $\pm$ 0.196  $\chi^2$ /NDF: 373443.3/9

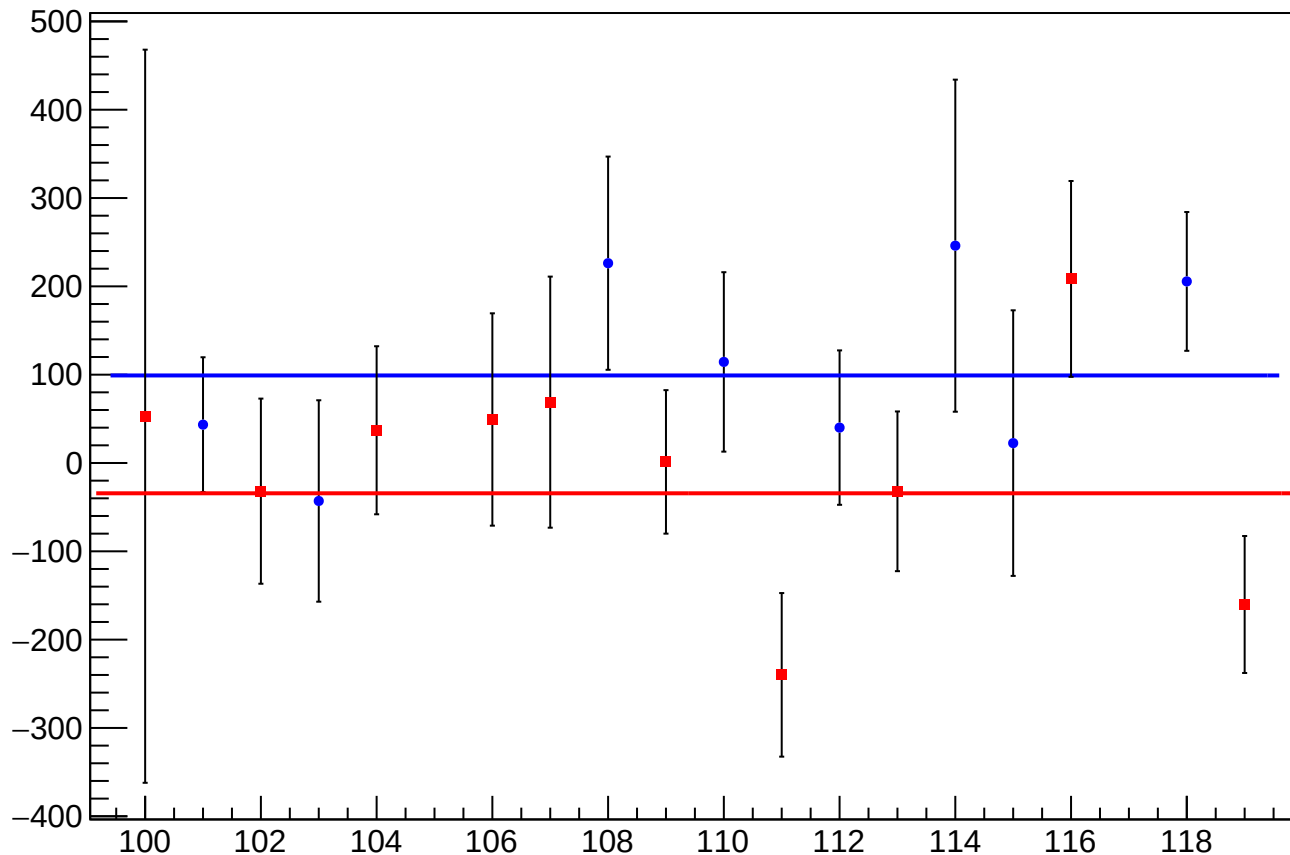
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 556.908 $\pm$ 0.149  $\chi^2$ /NDF: 655739.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 99.118+/-35.819  $\chi^2/\text{NDF}$ : 6.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -34.307+/-32.207  $\chi^2/\text{NDF}$ : 14.2/9

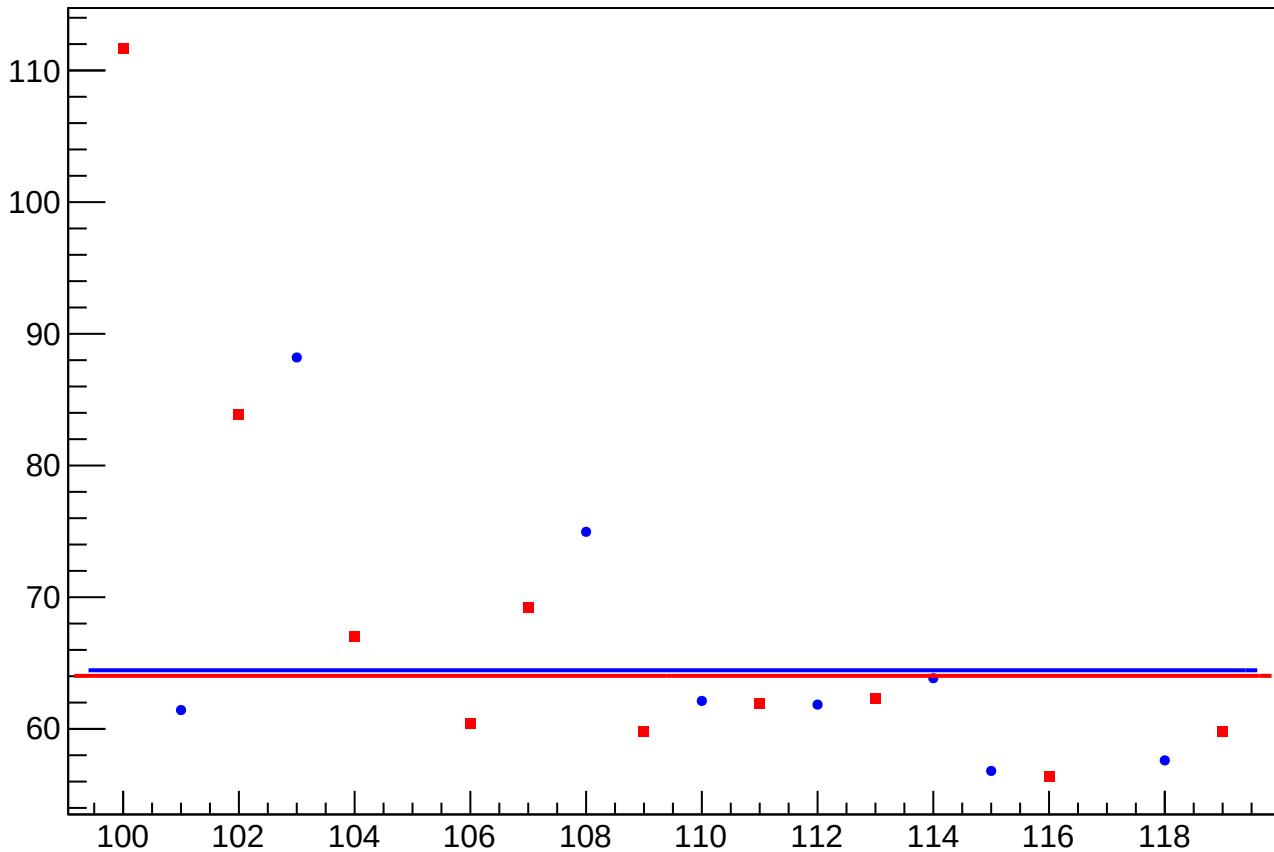
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.340+/-23.949  $\chi^2/\text{NDF}$ : 28.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 64.451+/-0.025  $\chi^2/\text{NDF}$ : 128245.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.030+/-0.023  $\chi^2/\text{NDF}$ : 127266.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

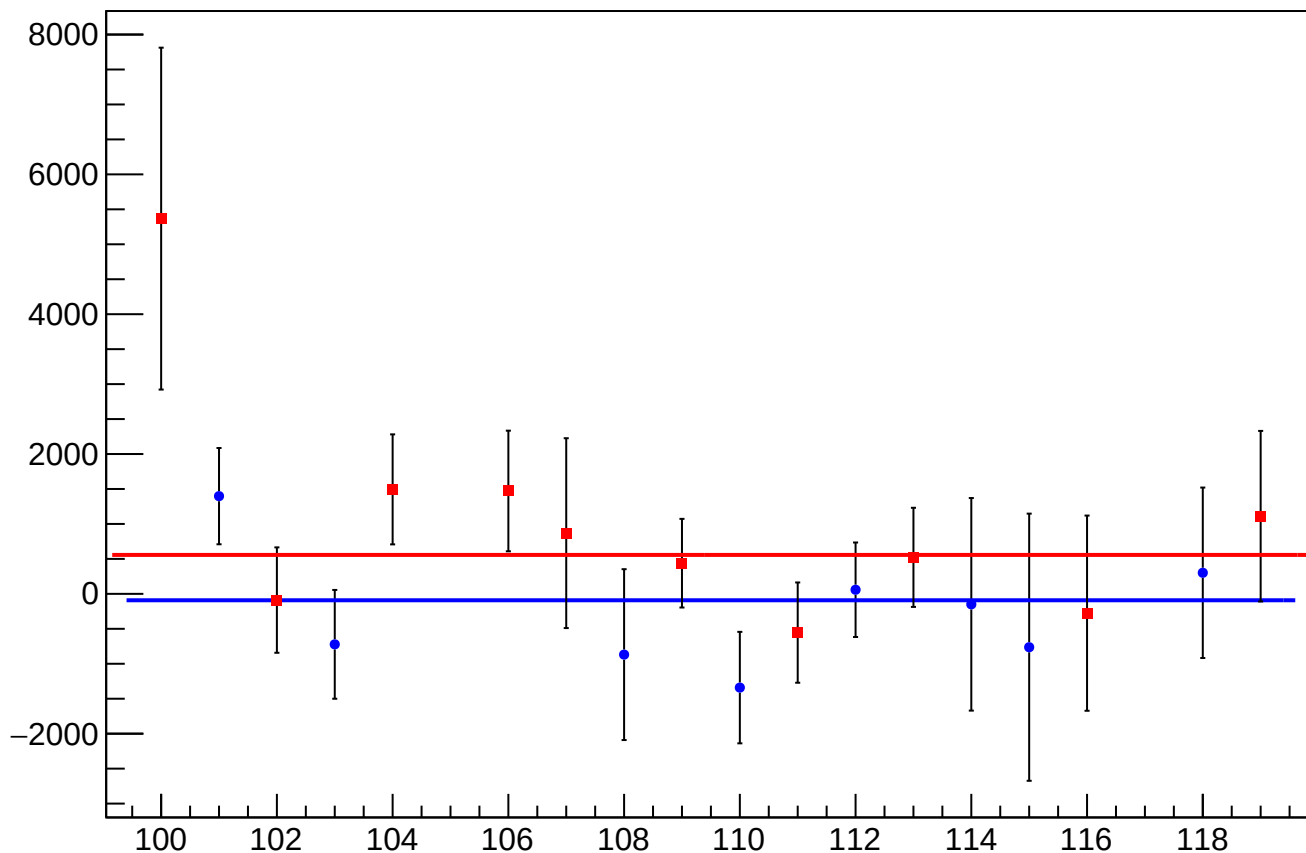
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.218+/-0.017  $\chi^2/\text{NDF}$ : 255665.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_48\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -91.835+/-323.204  $\chi^2/\text{NDF}$ : 8.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 556.816+/-276.963  $\chi^2/\text{NDF}$ : 10.2/9

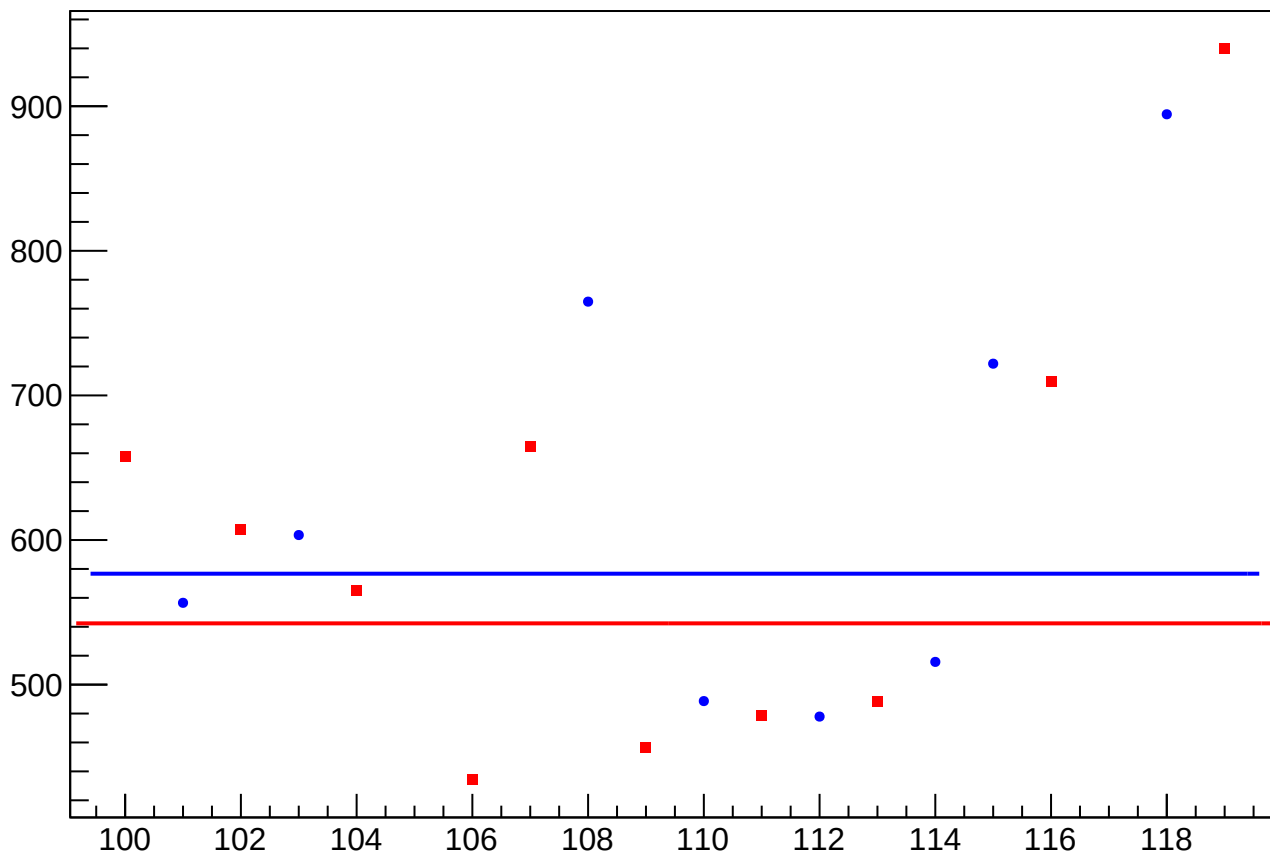
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 282.172+/-210.308  $\chi^2/\text{NDF}$ : 21.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 576.710 $\pm$ 0.229  $\chi^2$ /NDF: 269274.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 542.366 $\pm$ 0.196  $\chi^2$ /NDF: 373443.3/9

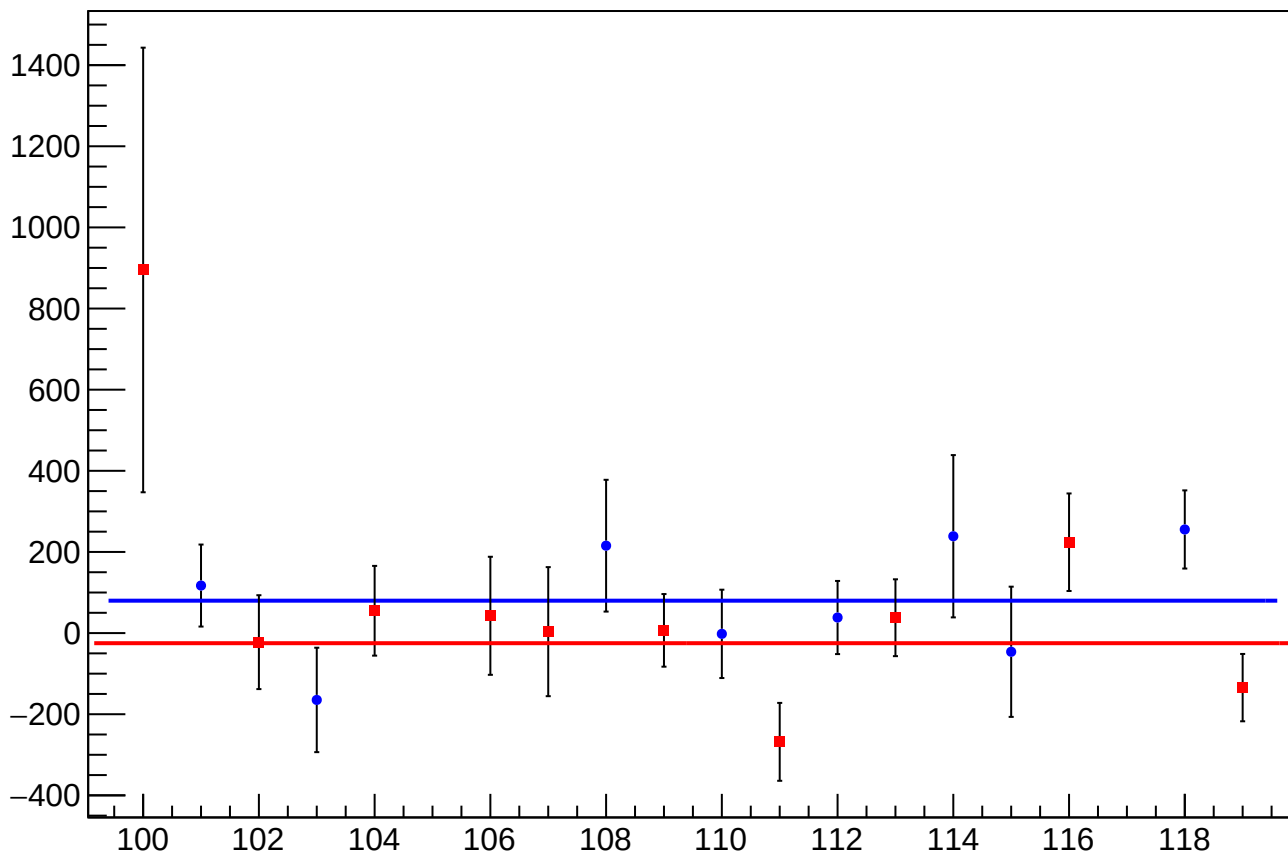
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 556.908 $\pm$ 0.149  $\chi^2$ /NDF: 655739.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 79.880 $\pm$ 41.700  $\chi^2$ /NDF: 9.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -24.914 $\pm$ 35.232  $\chi^2$ /NDF: 16.6/9

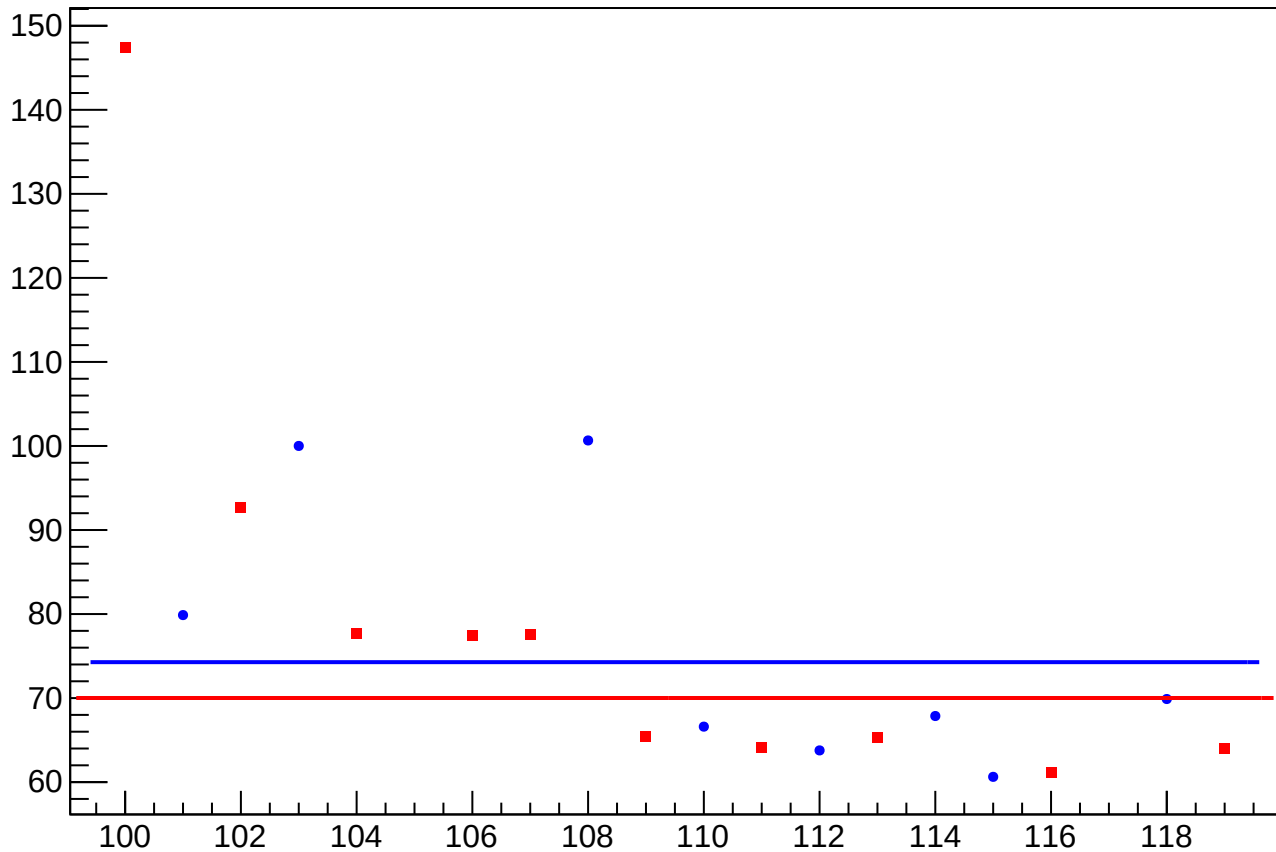
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.735 $\pm$ 26.912  $\chi^2$ /NDF: 30.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 74.275+/-0.029  $\chi^2/\text{NDF}$ : 196580.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 70.011+/-0.025  $\chi^2/\text{NDF}$ : 175181.4/9

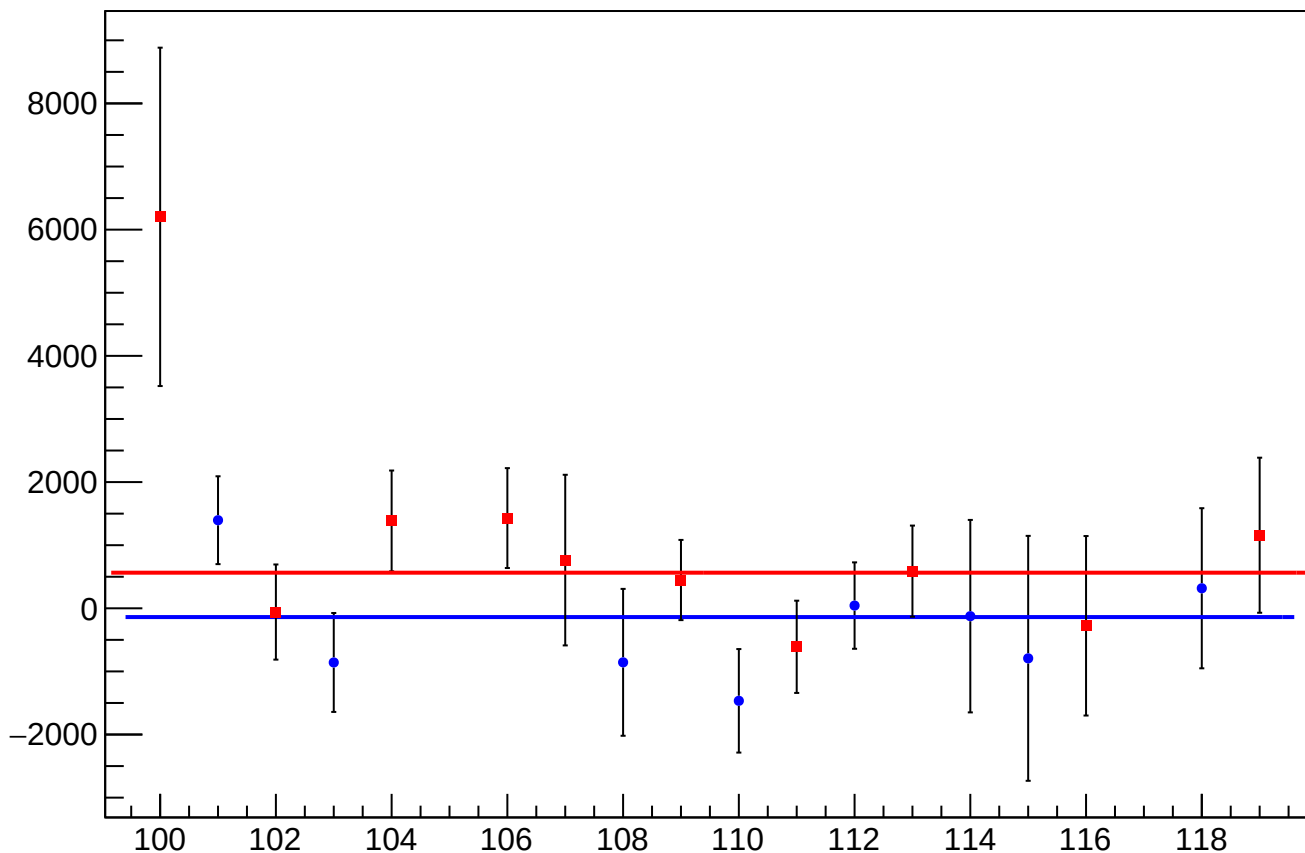
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 71.787+/-0.019  $\chi^2/\text{NDF}$ : 383967.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_dit\_correction\_mean vs Slug



Right In: -138.837 $\pm$ 326.725  $\chi^2$ /NDF: 9.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 564.366 $\pm$ 277.000  $\chi^2$ /NDF: 10.6/9

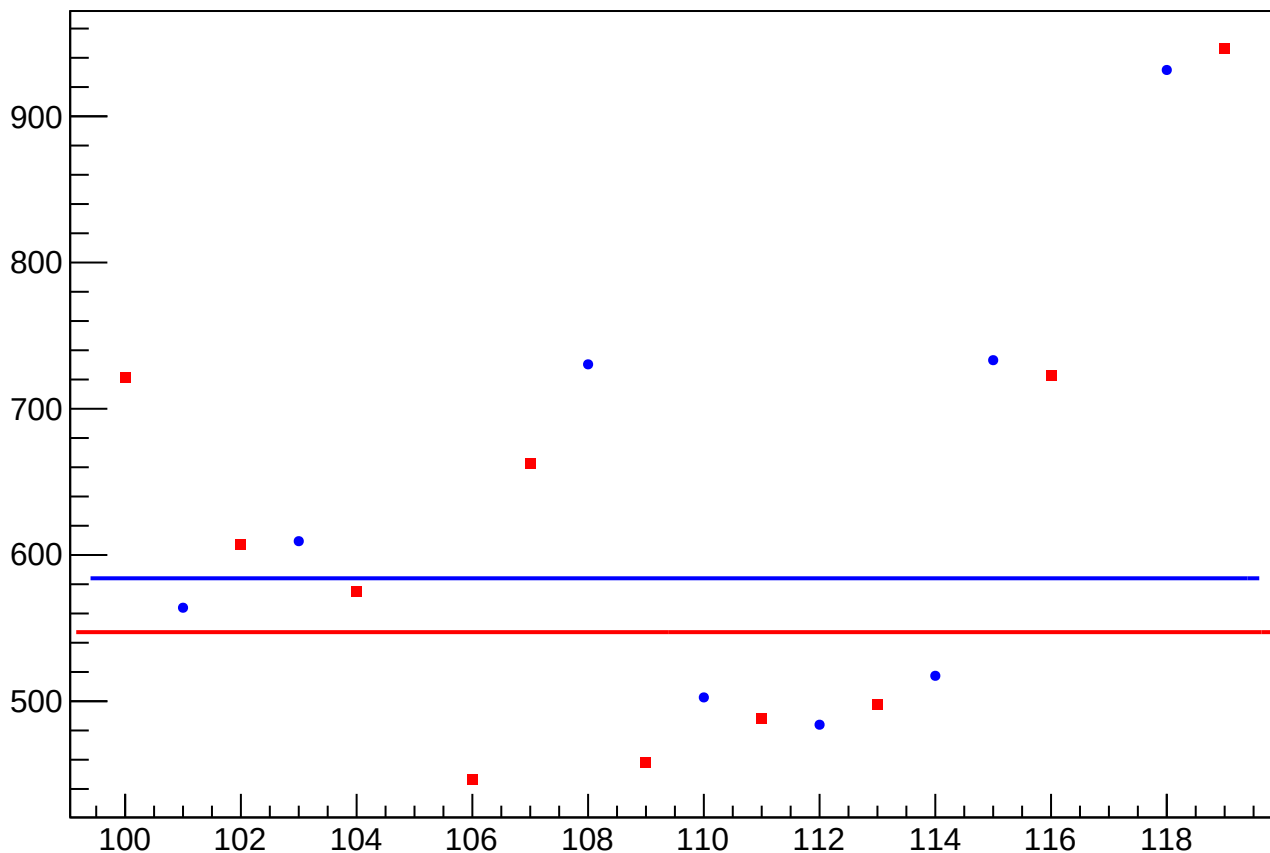
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 270.293 $\pm$ 211.285  $\chi^2$ /NDF: 22.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_dit\_correction\_rms vs Slug



Right In: 584.073+/-0.231  $\chi^2/\text{NDF}$ : 263715.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 547.244+/-0.196  $\chi^2/\text{NDF}$ : 373871.2/9

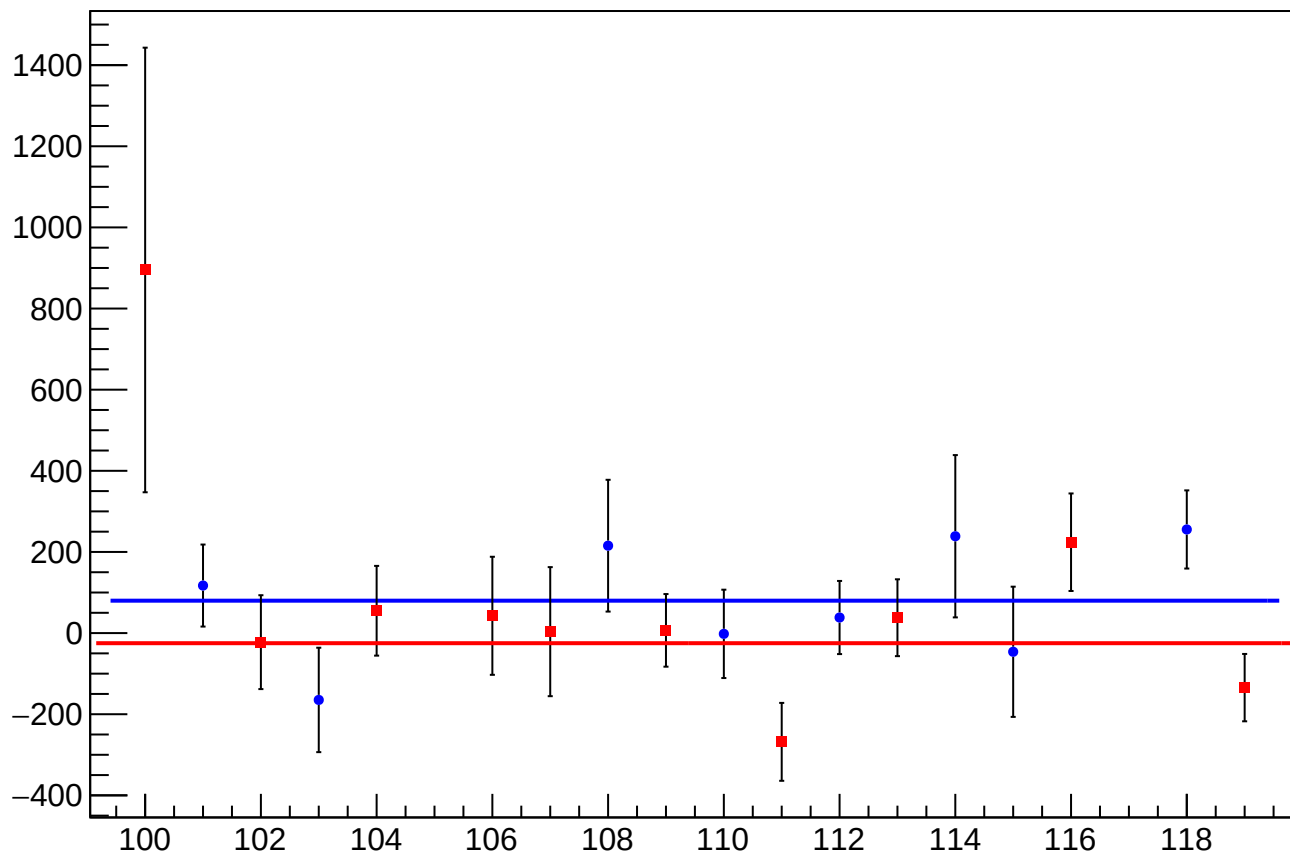
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 562.645+/-0.149  $\chi^2/\text{NDF}$ : 652371.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 79.880 $\pm$ 41.700  $\chi^2$ /NDF: 9.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -24.915 $\pm$ 35.232  $\chi^2$ /NDF: 16.6/9

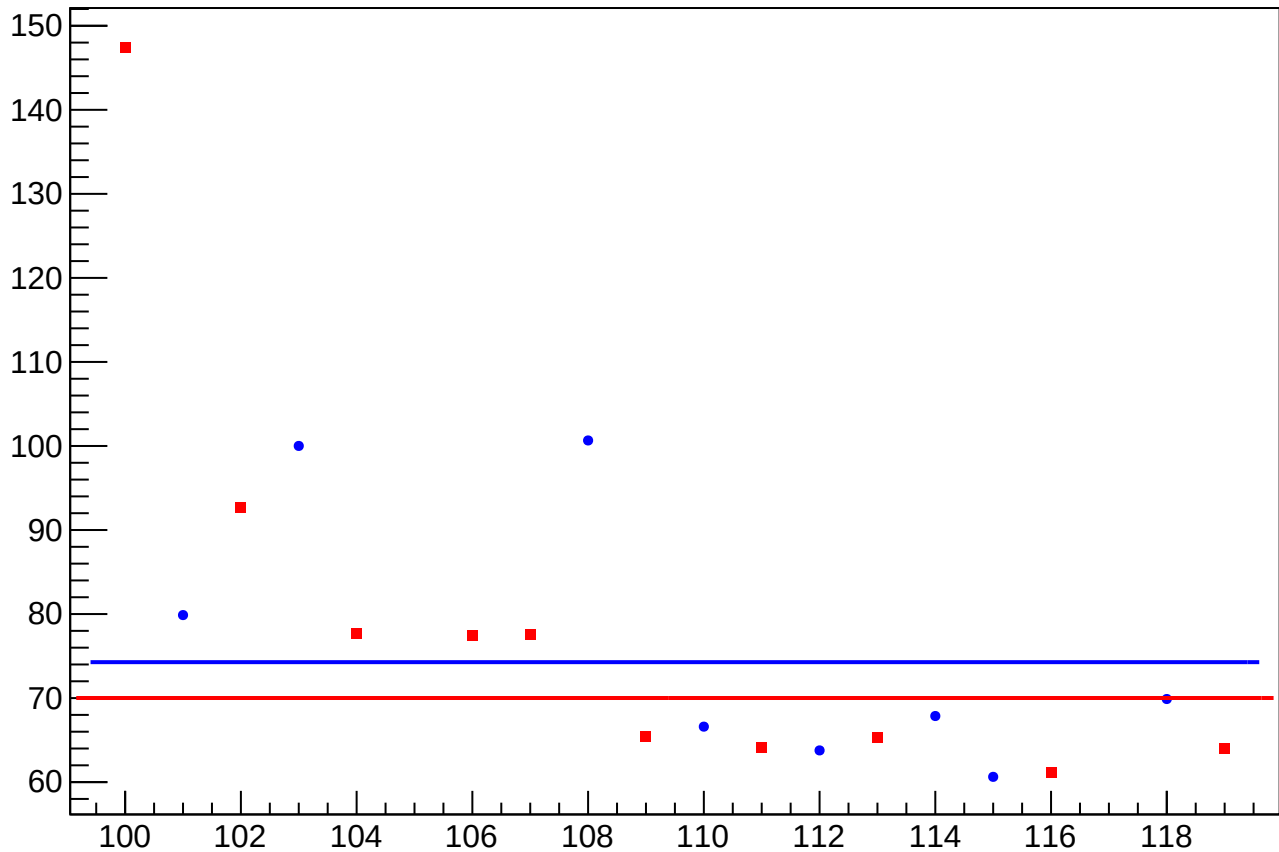
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.734 $\pm$ 26.912  $\chi^2$ /NDF: 30.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 74.275+/-0.029  $\chi^2/\text{NDF}$ : 196583.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 70.011+/-0.025  $\chi^2/\text{NDF}$ : 175182.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

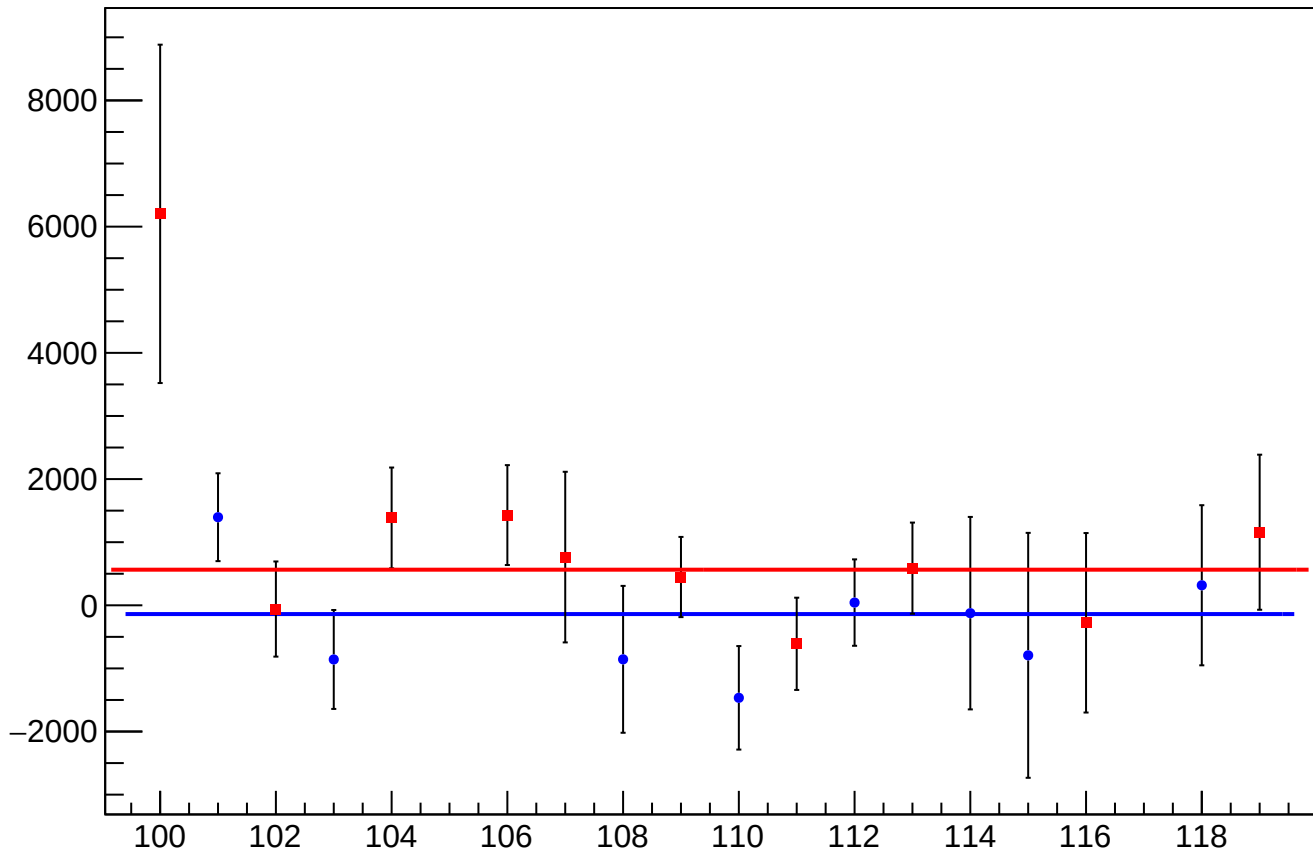
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 71.787+/-0.019  $\chi^2/\text{NDF}$ : 383971.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_48\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -138.837 $\pm$ 326.725  $\chi^2$ /NDF: 9.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 564.365 $\pm$ 276.999  $\chi^2$ /NDF: 10.6/9

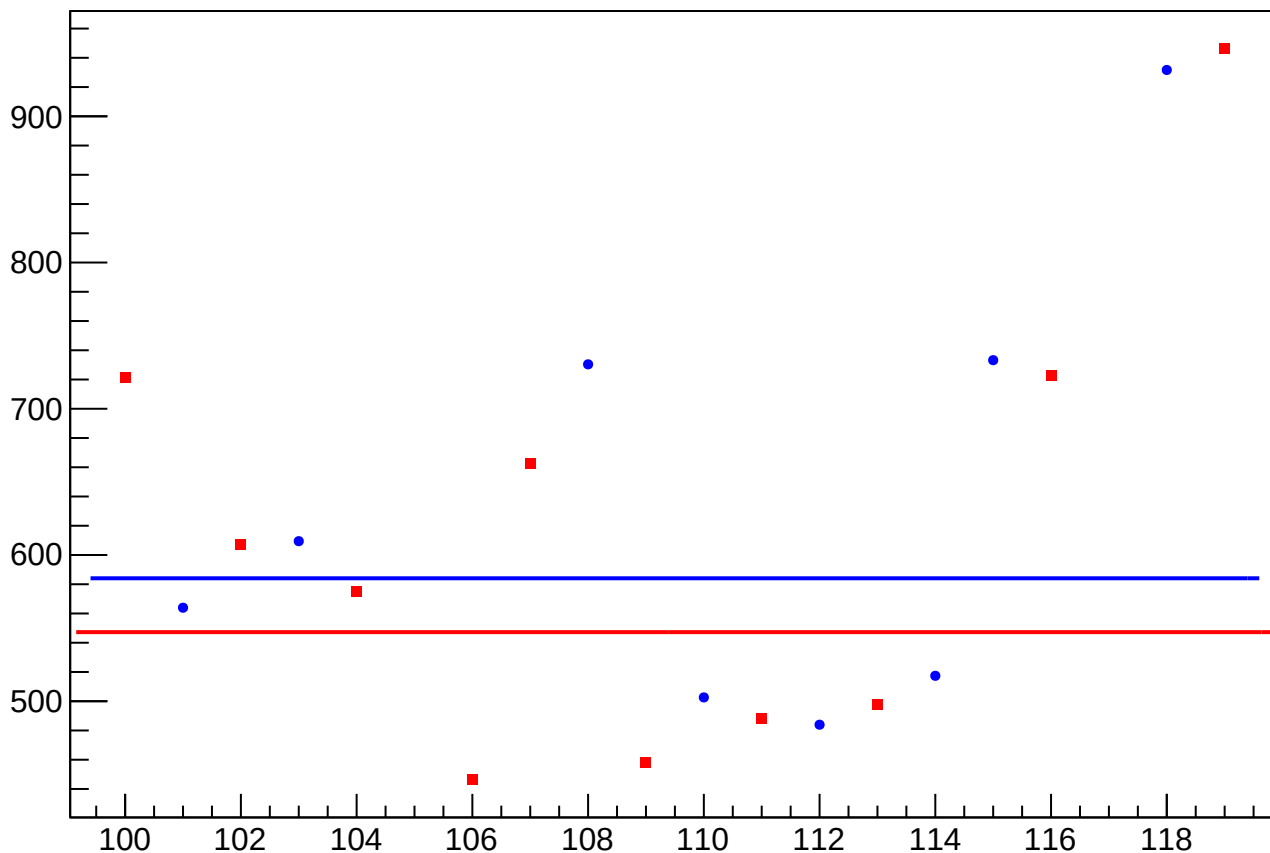
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 270.292 $\pm$ 211.285  $\chi^2$ /NDF: 22.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 584.072 $\pm$ 0.231  $\chi^2$ /NDF: 263716.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 547.244 $\pm$ 0.196  $\chi^2$ /NDF: 373872.9/9

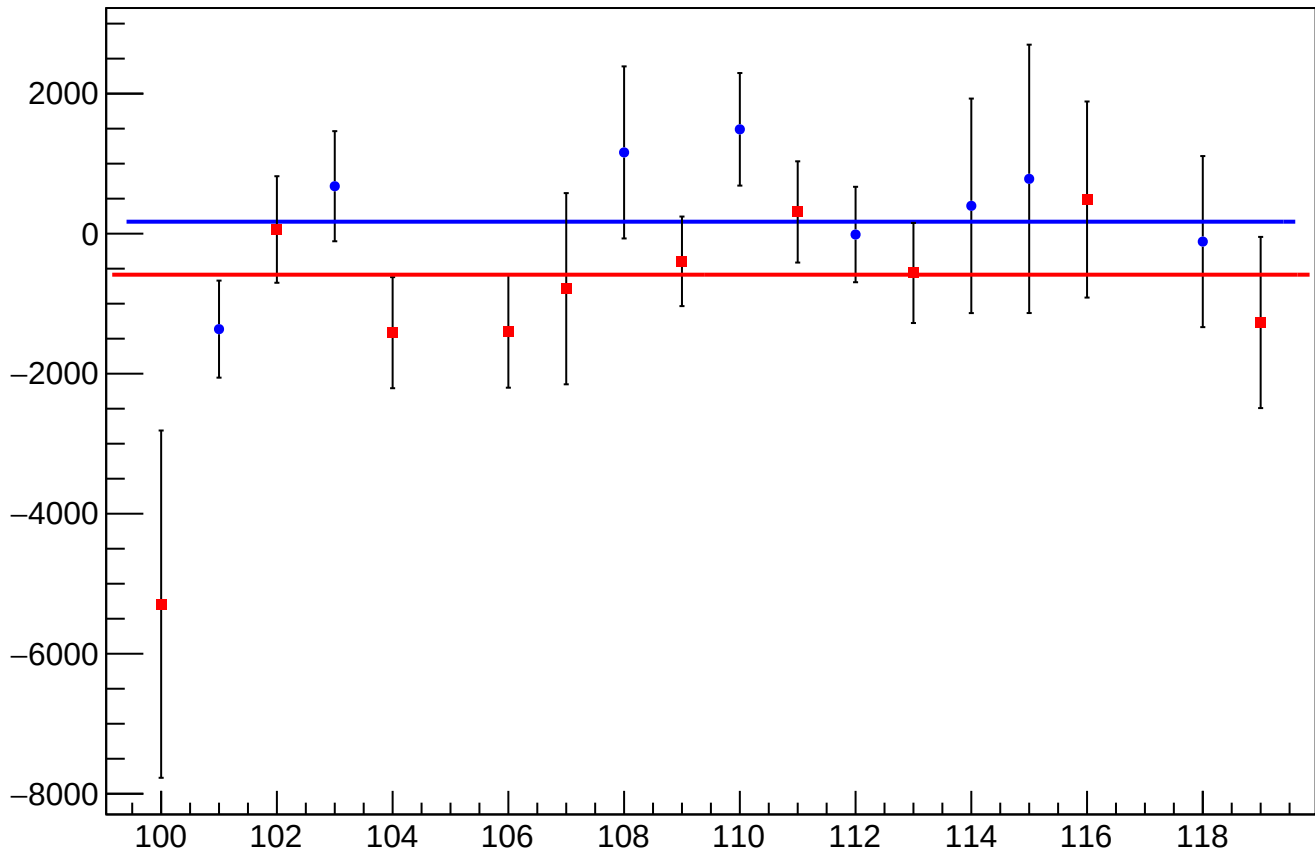
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 562.645 $\pm$ 0.149  $\chi^2$ /NDF: 652374.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 170.819 $\pm$ 325.672  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -586.086 $\pm$ 276.836  $\chi^2$ /NDF: 9.0/9

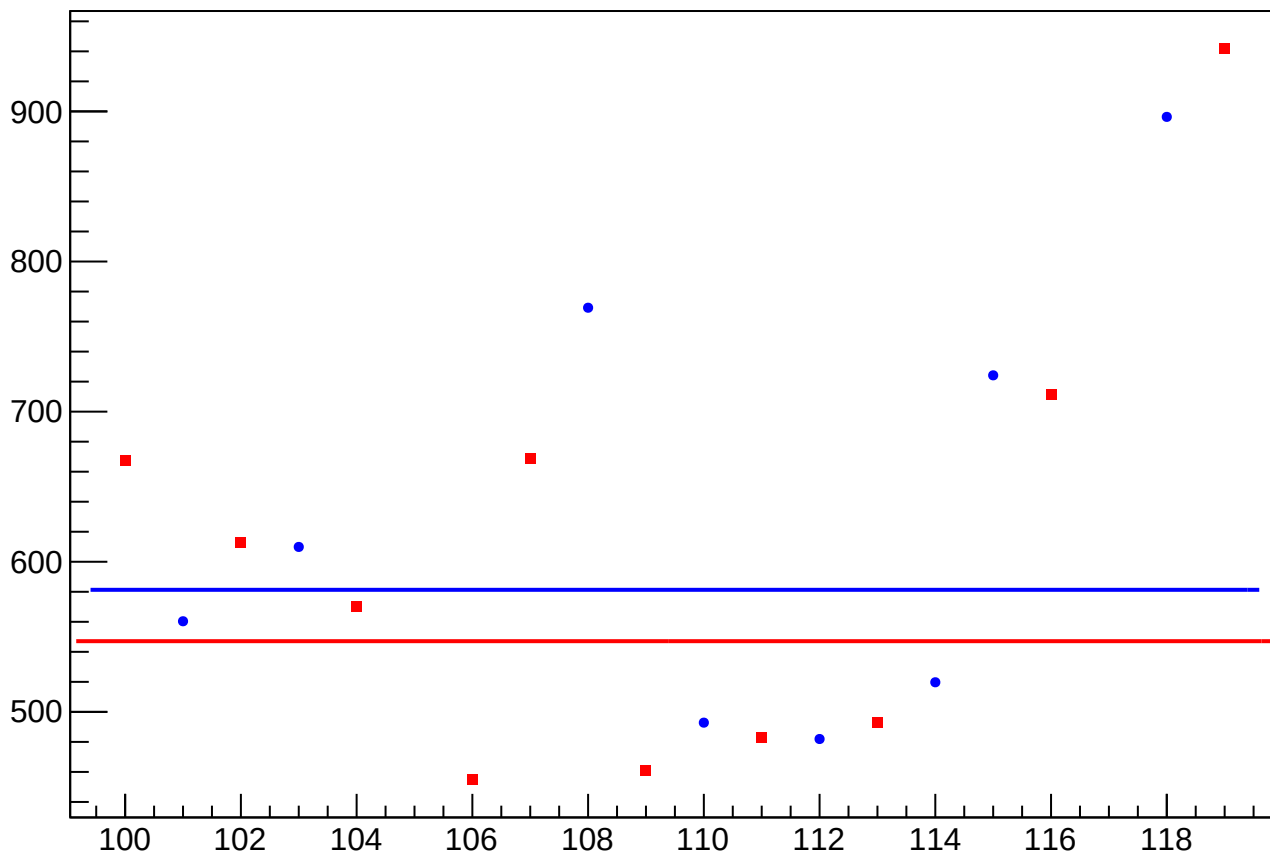
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -268.584 $\pm$ 210.927  $\chi^2$ /NDF: 21.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 581.313+/-0.230  $\chi^2/\text{NDF}$ : 265320.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 547.098+/-0.196  $\chi^2/\text{NDF}$ : 363287.6/9

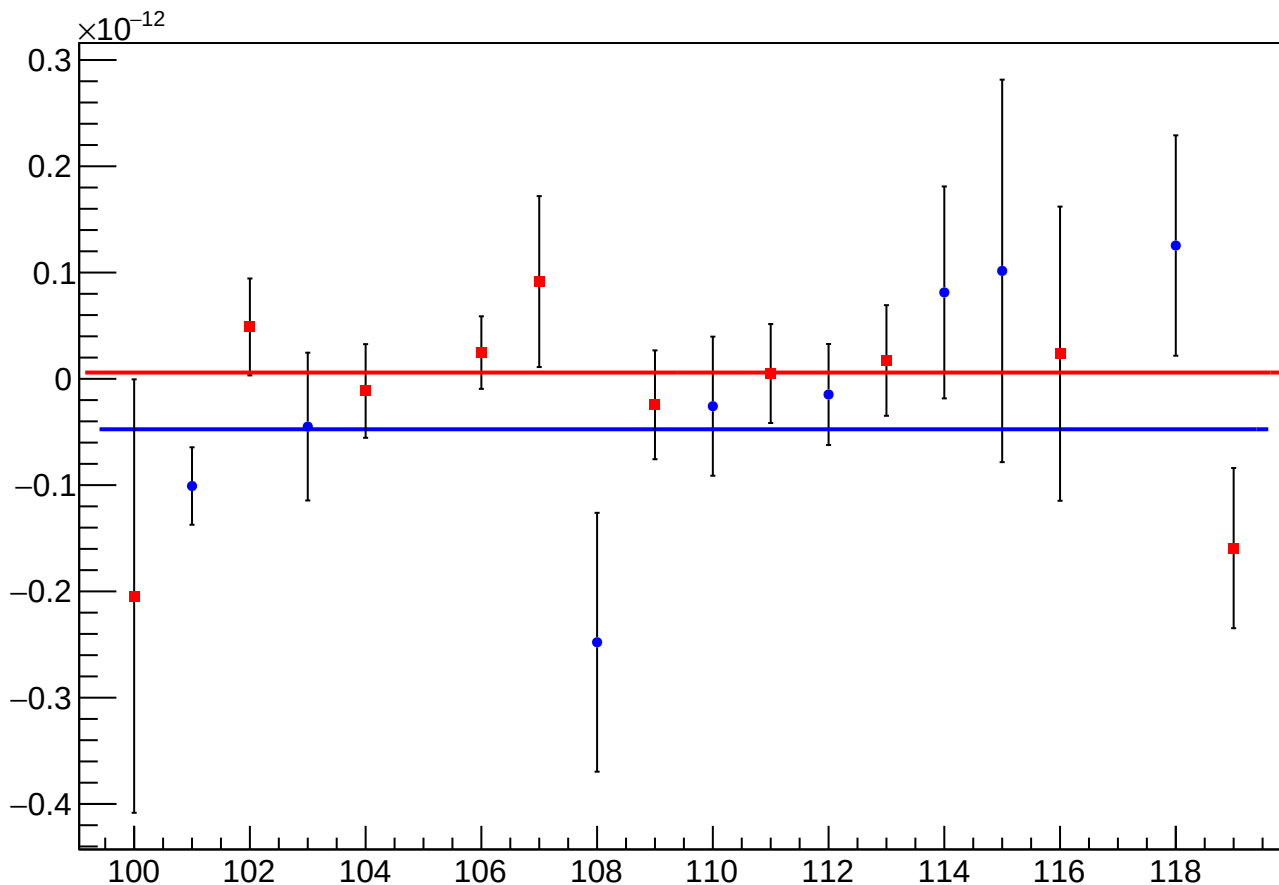
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 561.450+/-0.149  $\chi^2/\text{NDF}$ : 641422.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.8/9

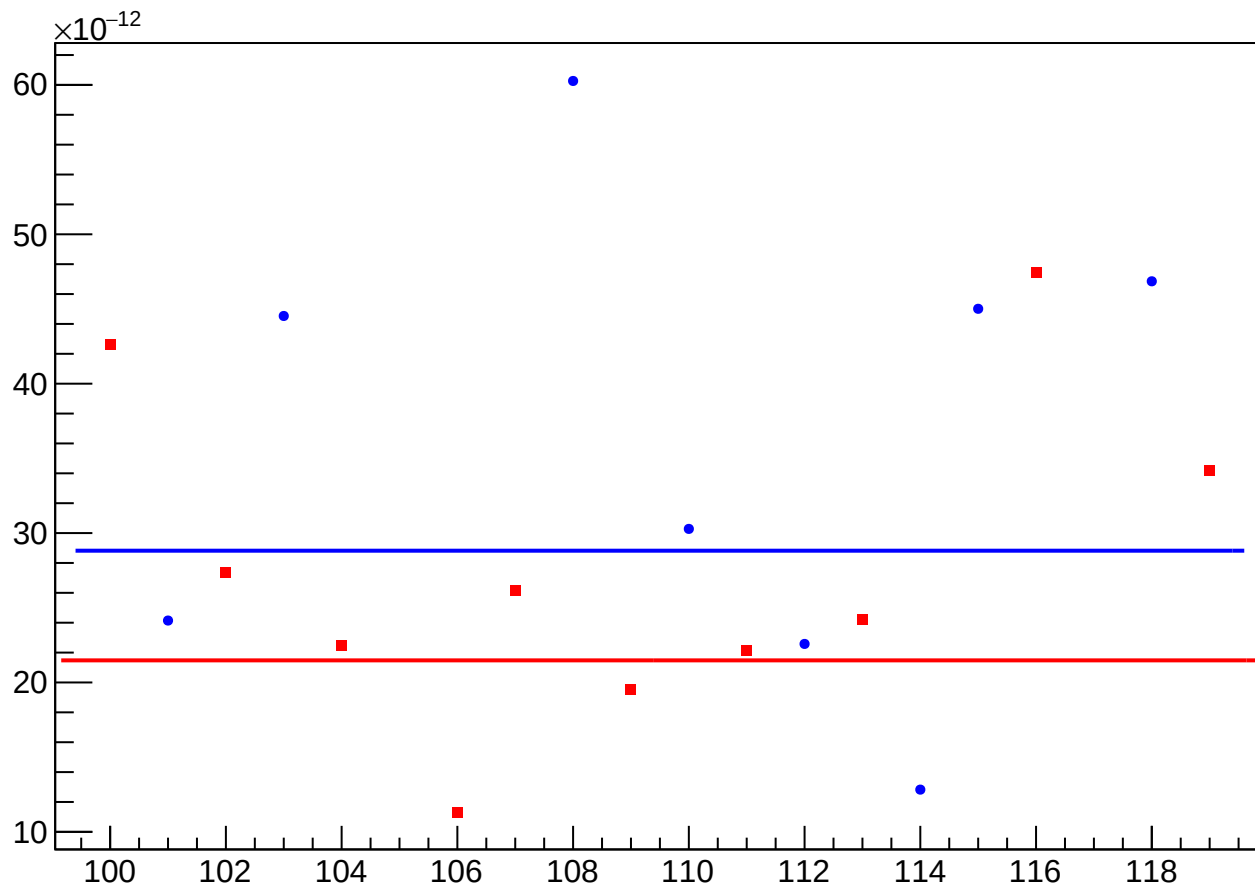
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 22.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 432040.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 376572.0/9

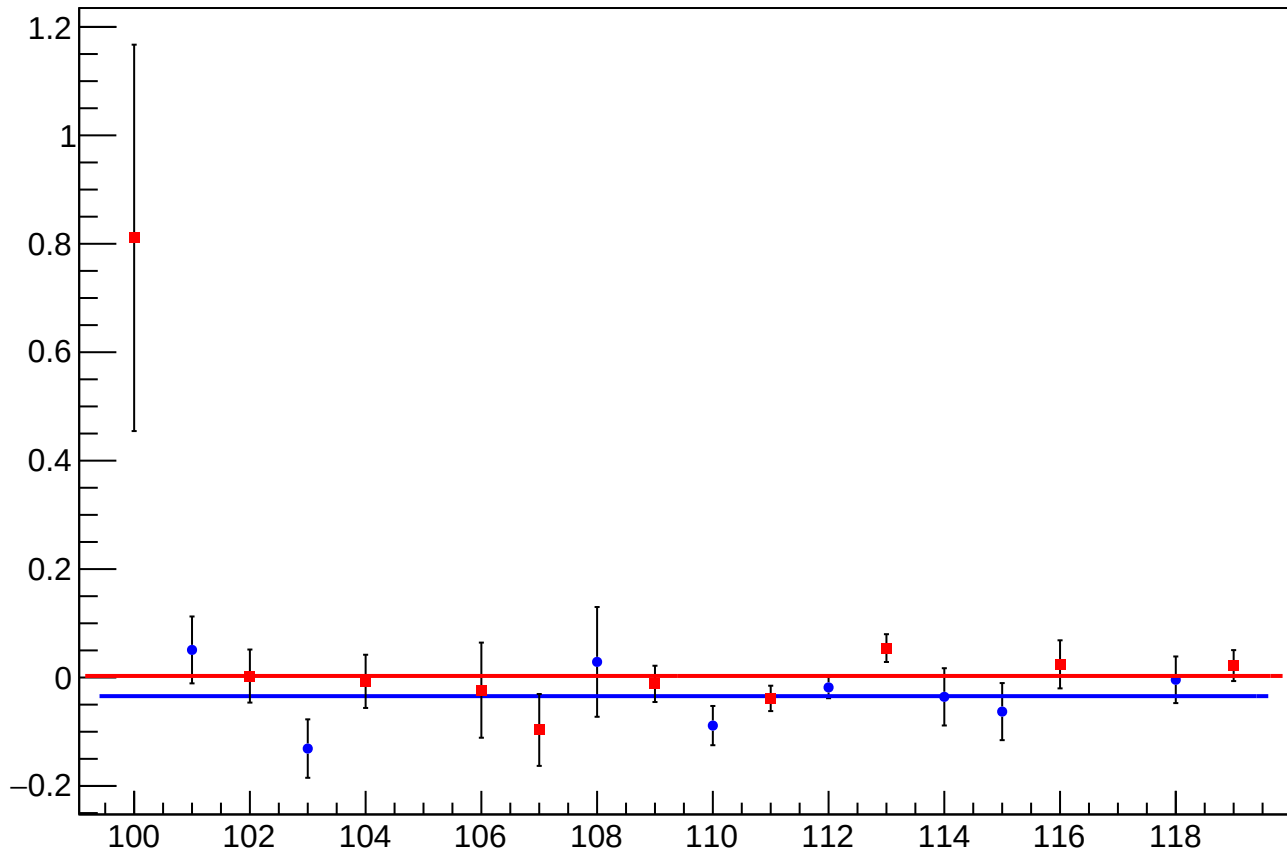
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 942223.6/17

- 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: -0.034 $\pm$ 0.014  $\chi^2$ /NDF: 9.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.003 $\pm$ 0.012  $\chi^2$ /NDF: 15.6/9

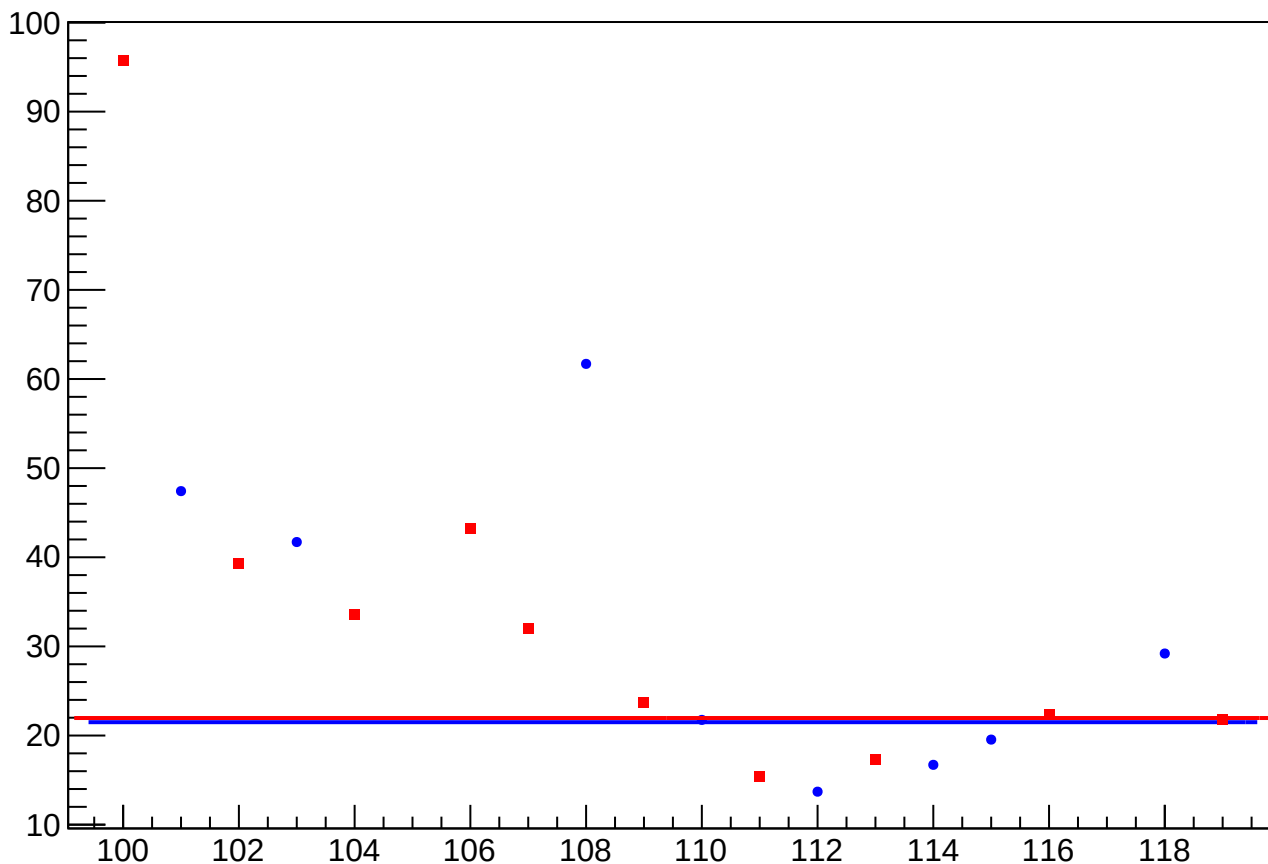
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.009  $\chi^2$ /NDF: 29.0/17

- 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: 21.498+/-0.010  $\chi^2/\text{NDF}$ : 1339566.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.966+/-0.008  $\chi^2/\text{NDF}$ : 841553.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

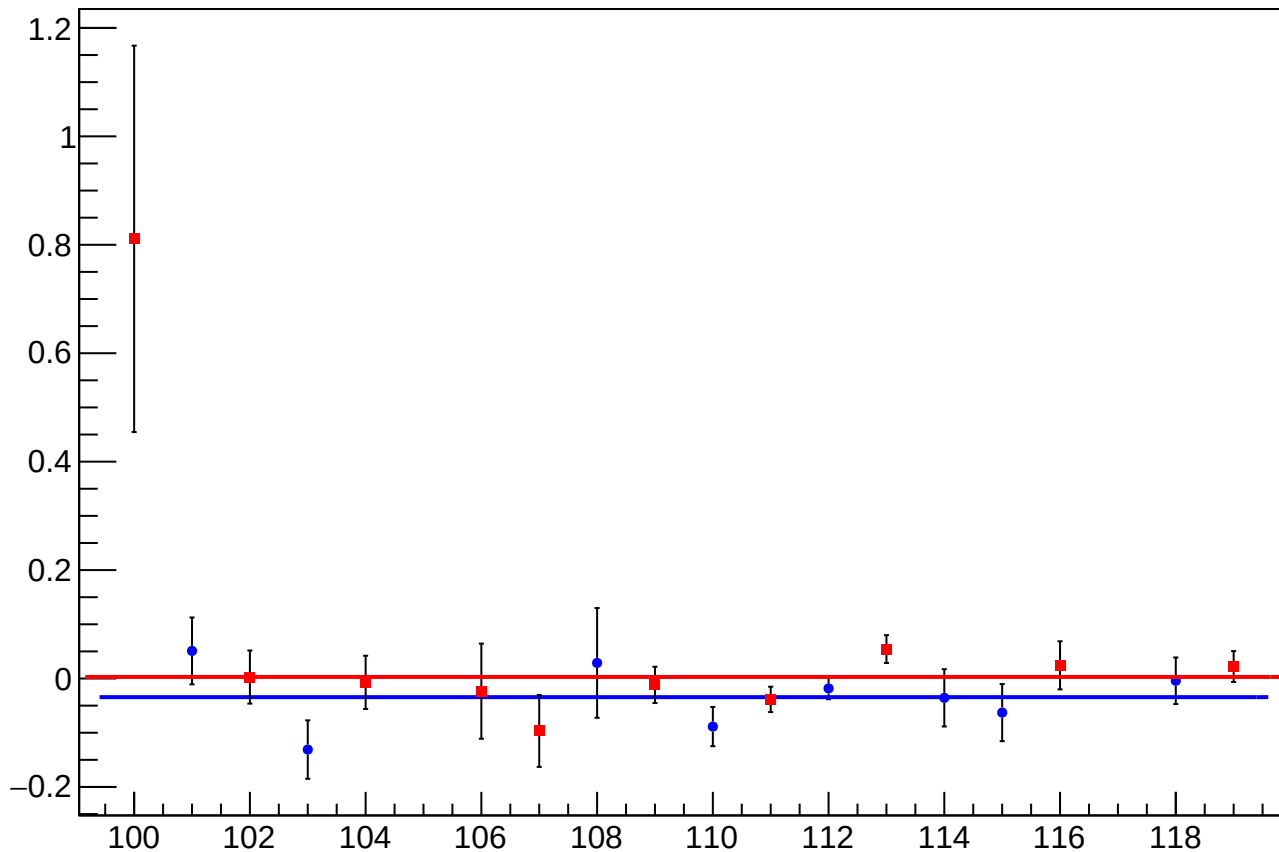
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.768+/-0.006  $\chi^2/\text{NDF}$ : 2182449.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.034 $\pm$ 0.014  $\chi^2$ /NDF: 9.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.012  $\chi^2$ /NDF: 15.6/9

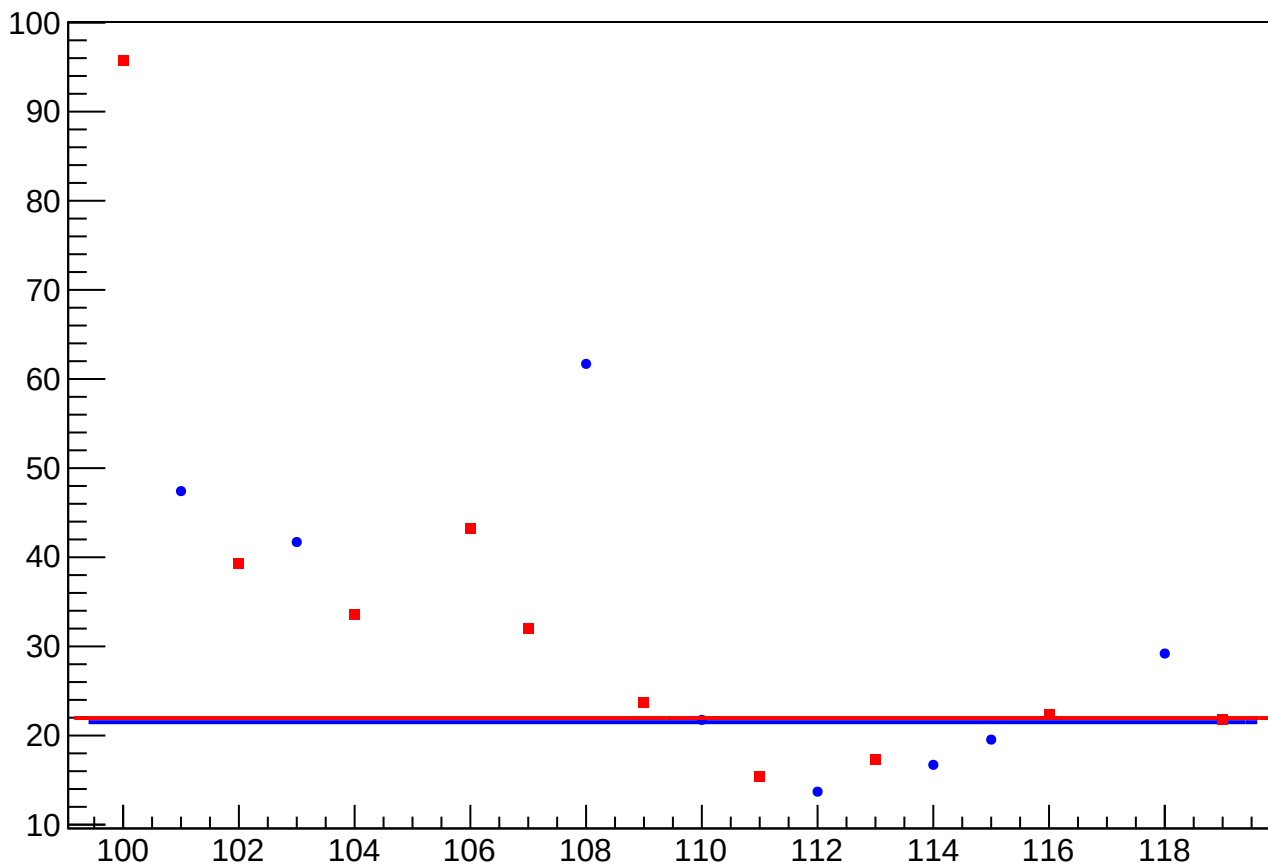
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.009  $\chi^2$ /NDF: 29.0/17

- 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: 21.498+/-0.010  $\chi^2/\text{NDF}$ : 1339566.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.966+/-0.008  $\chi^2/\text{NDF}$ : 841553.7/9

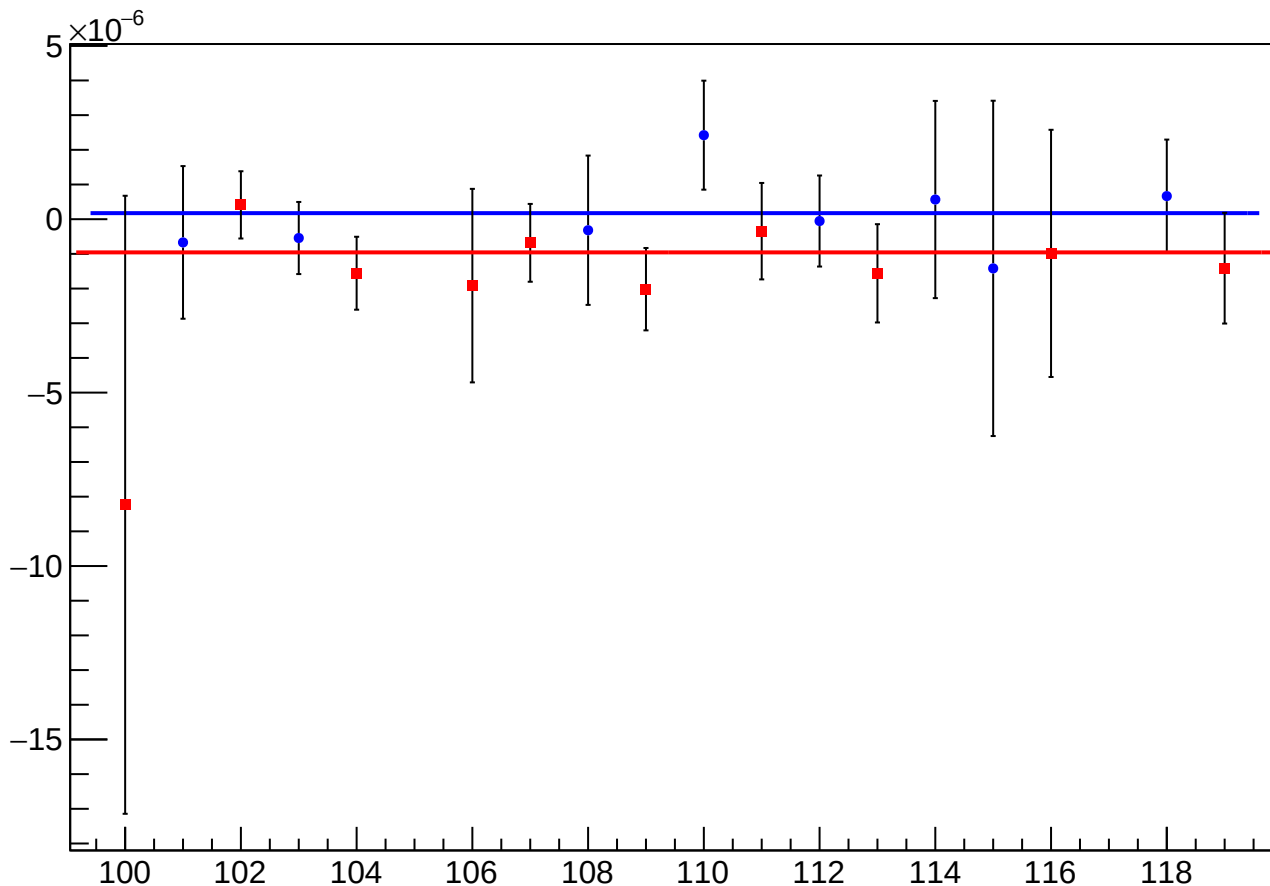
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.768+/-0.006  $\chi^2/\text{NDF}$ : 2182449.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 3.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.4/9

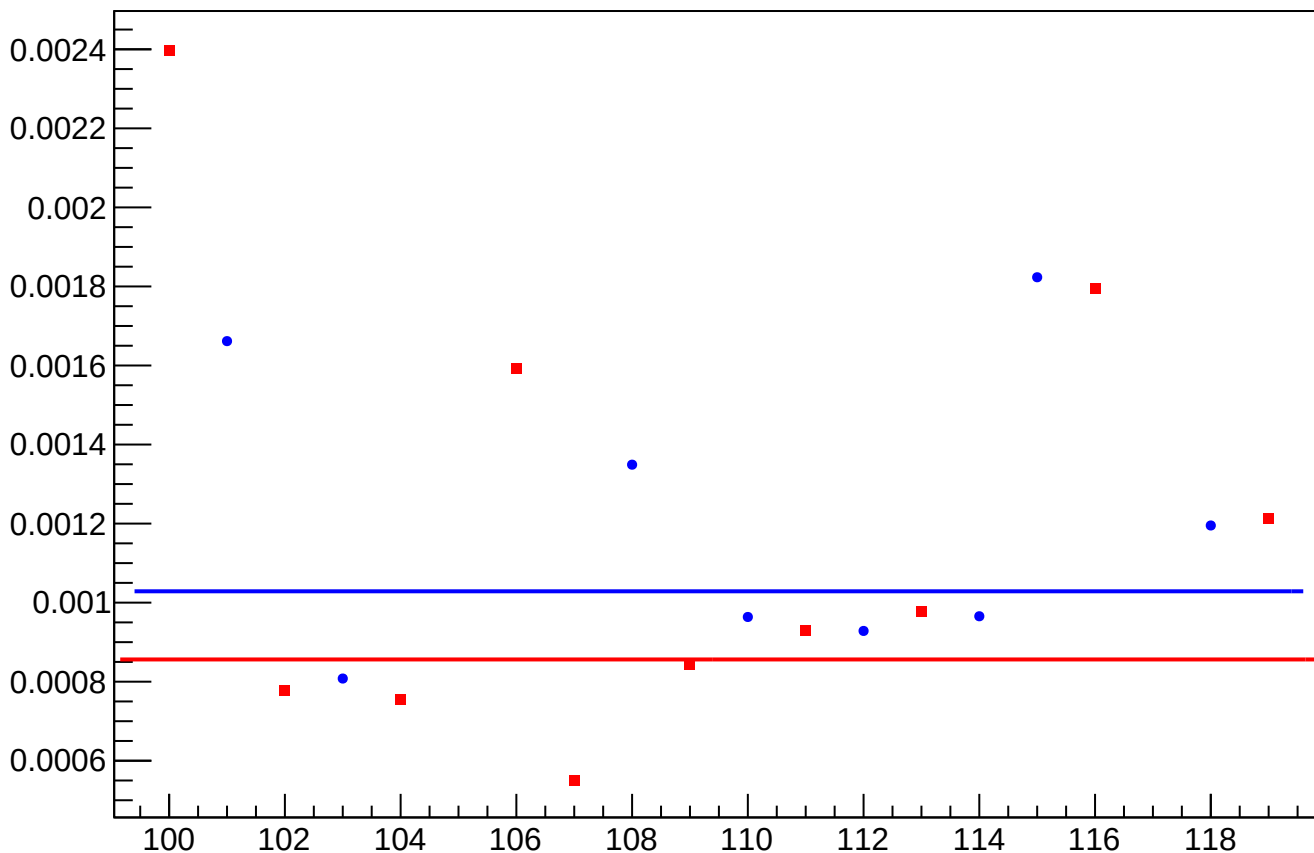
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.7/17

- 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  $\chi^2/\text{NDF}$ : 390931.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 638196.2/9

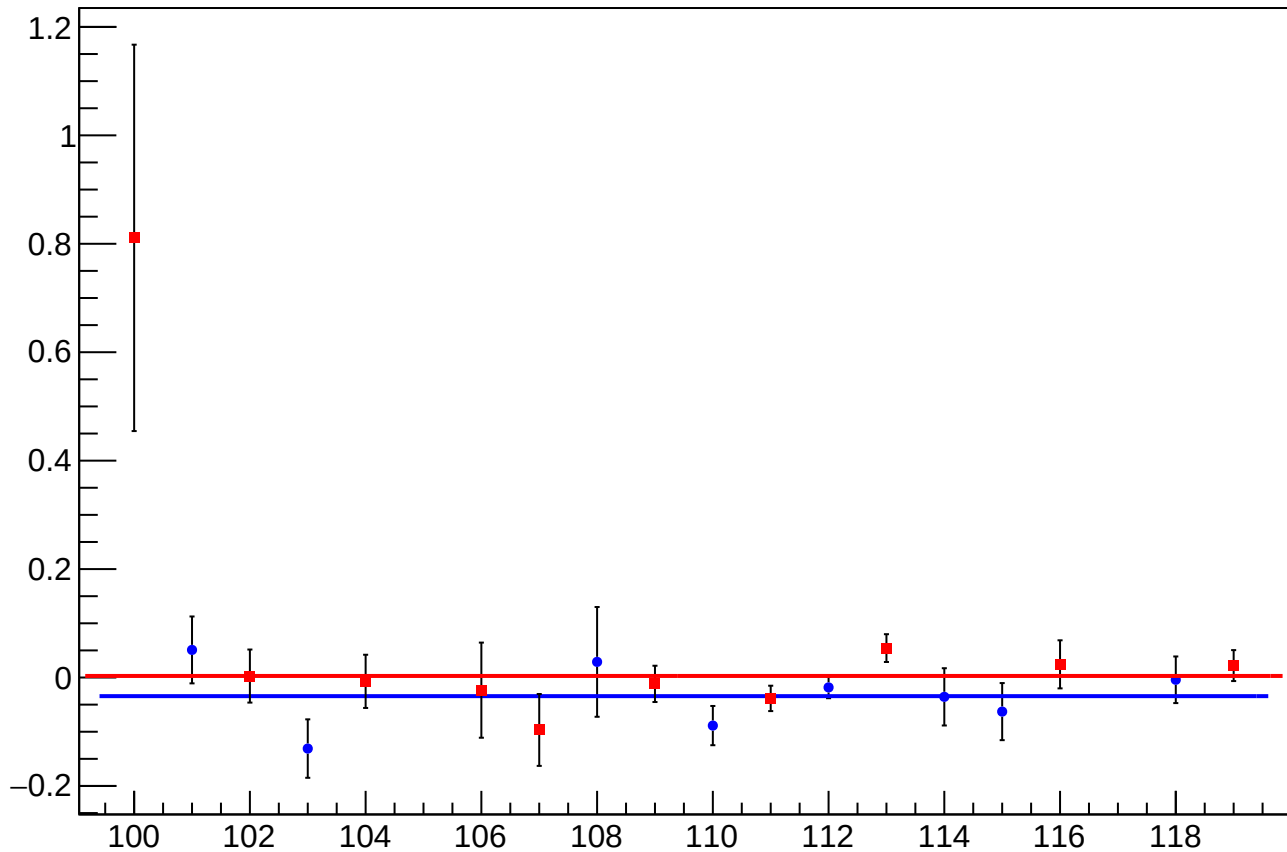
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1138506.3/17

- 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: -0.034 $\pm$ 0.014  $\chi^2$ /NDF: 9.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.003 $\pm$ 0.012  $\chi^2$ /NDF: 15.6/9

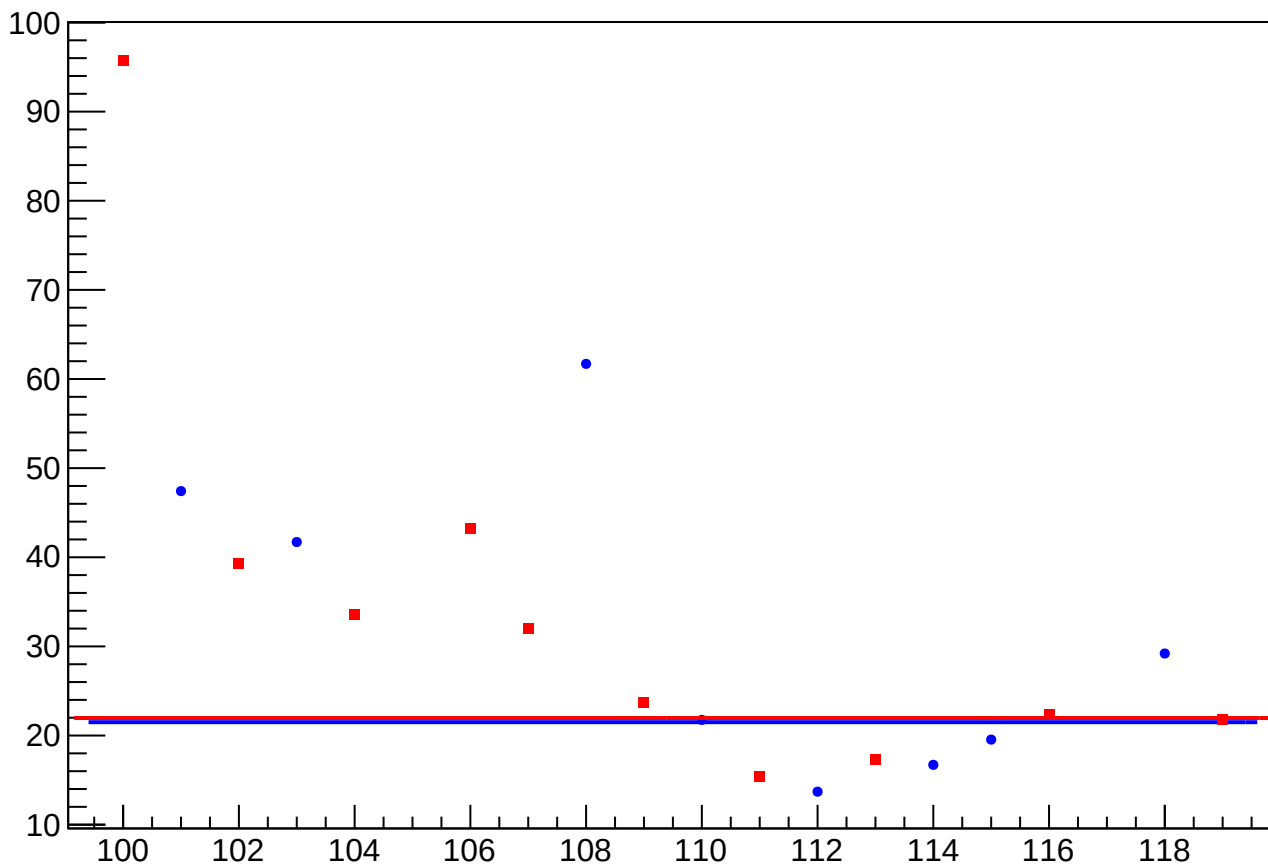
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.009  $\chi^2$ /NDF: 29.0/17

- 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: 21.498 $\pm$ 0.010  $\chi^2$ /NDF: 1339603.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.966 $\pm$ 0.008  $\chi^2$ /NDF: 841602.4/9

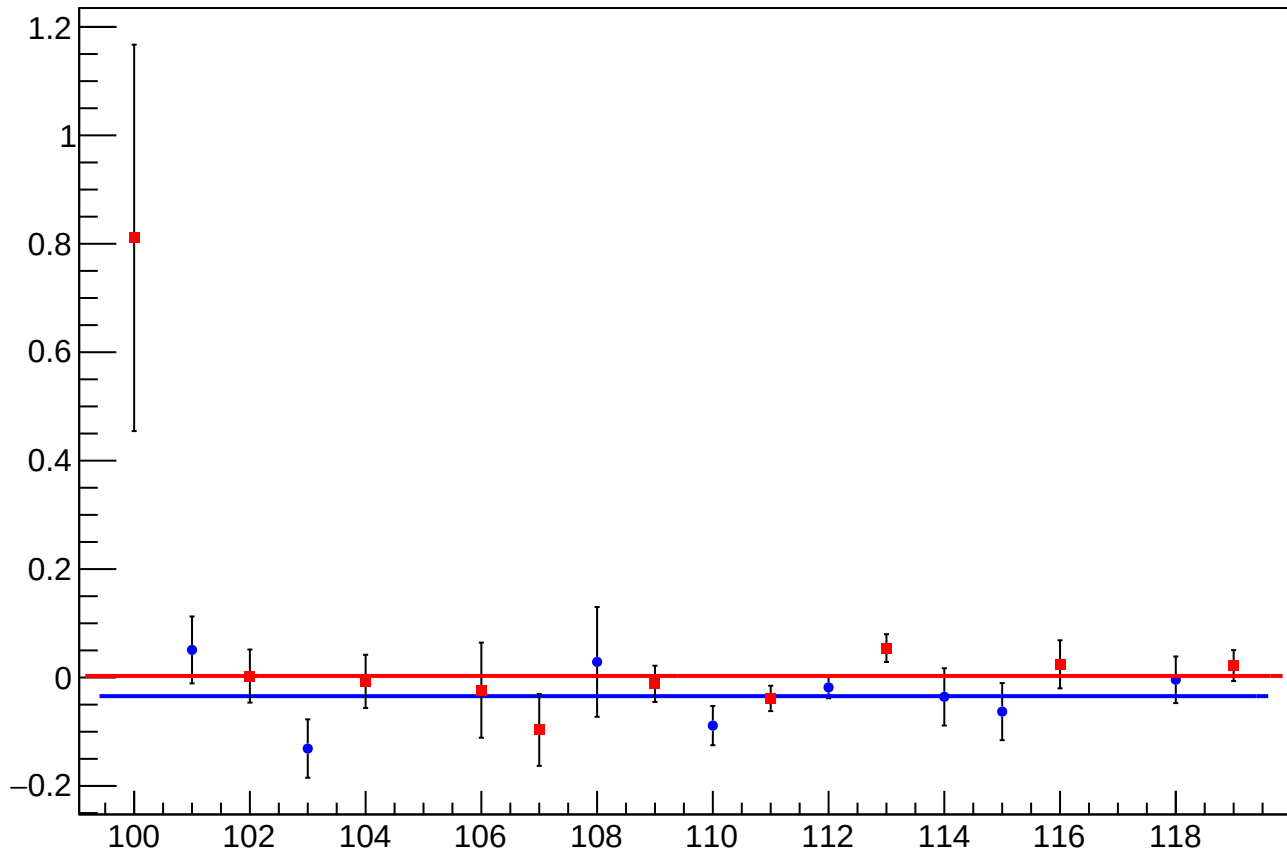
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.768 $\pm$ 0.006  $\chi^2$ /NDF: 2182535.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.034 $\pm$ 0.014  $\chi^2$ /NDF: 9.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.012  $\chi^2$ /NDF: 15.6/9

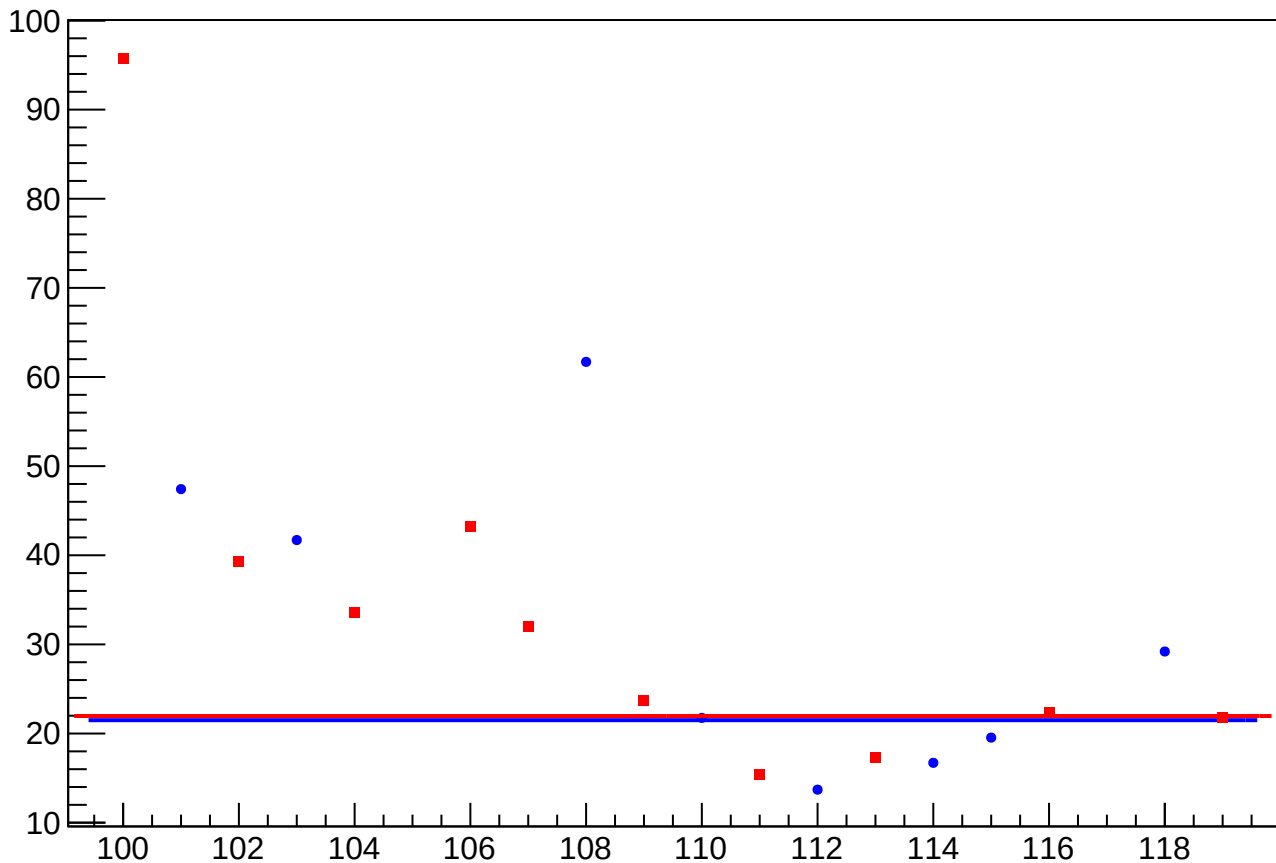
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.009  $\chi^2$ /NDF: 29.0/17

- 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: 21.498 $\pm$ 0.010  $\chi^2$ /NDF: 1339603.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.966 $\pm$ 0.008  $\chi^2$ /NDF: 841602.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

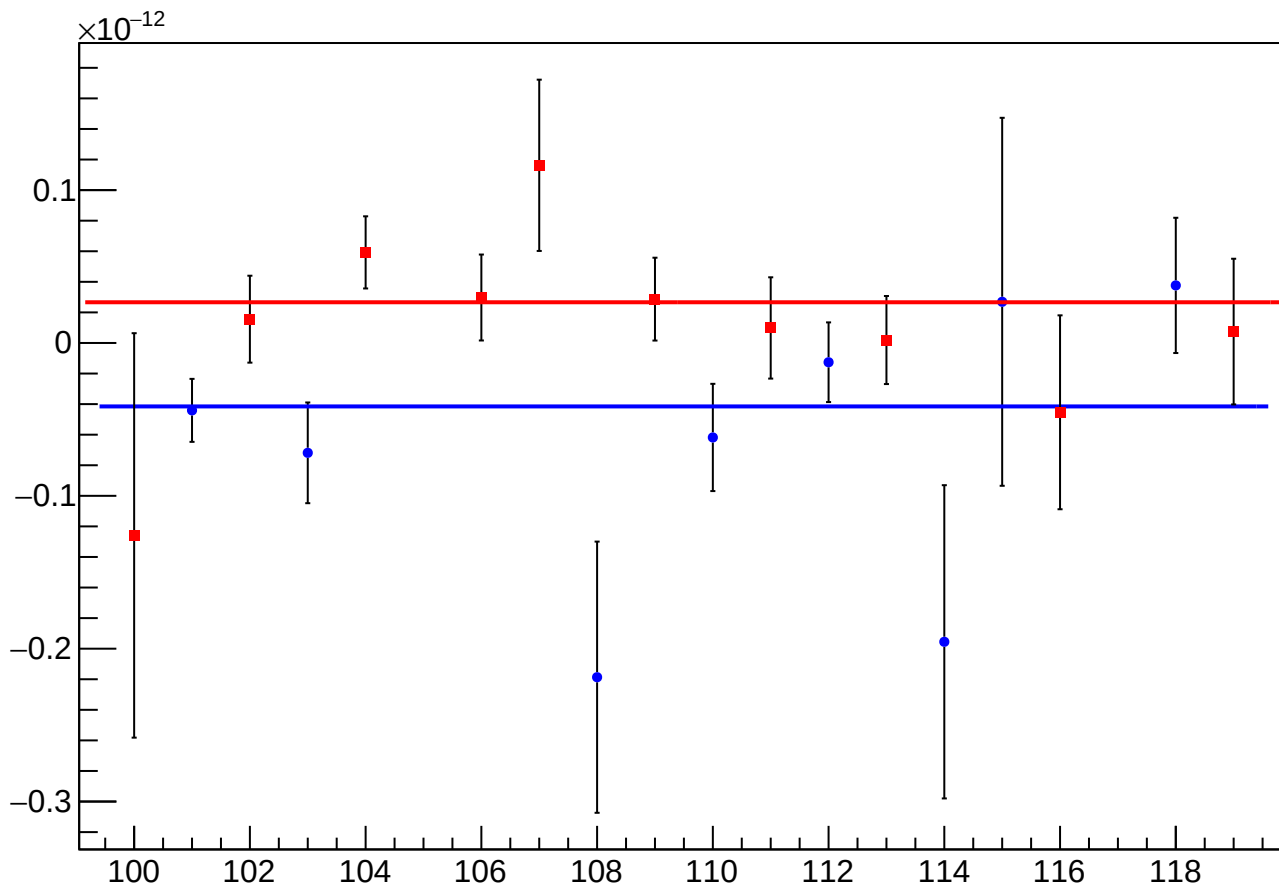
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.768 $\pm$ 0.006  $\chi^2$ /NDF: 2182535.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 12.2/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 8.4/9

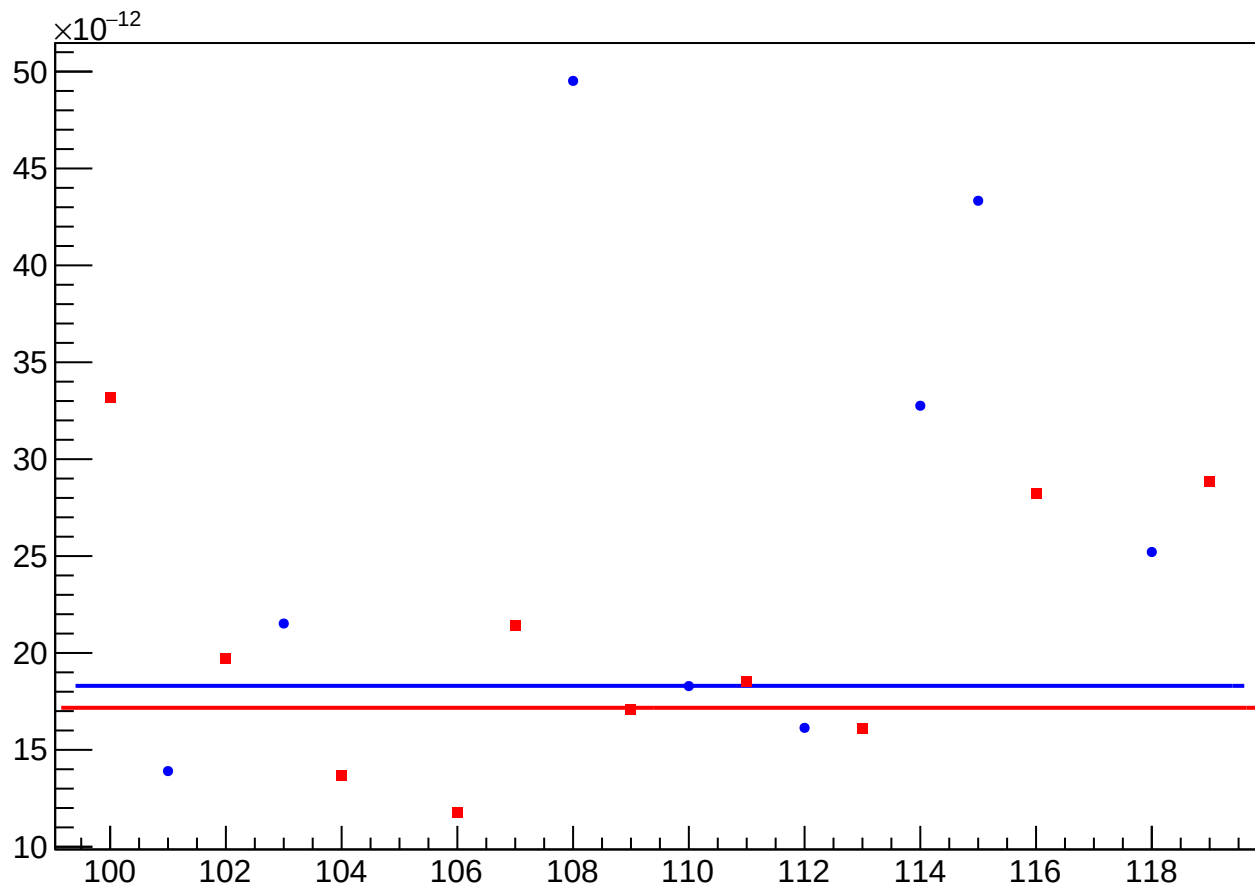
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 37.8/17

- sign 0.000+/-0.000  $\chi^2$ /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: 546704.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 360893.3/9

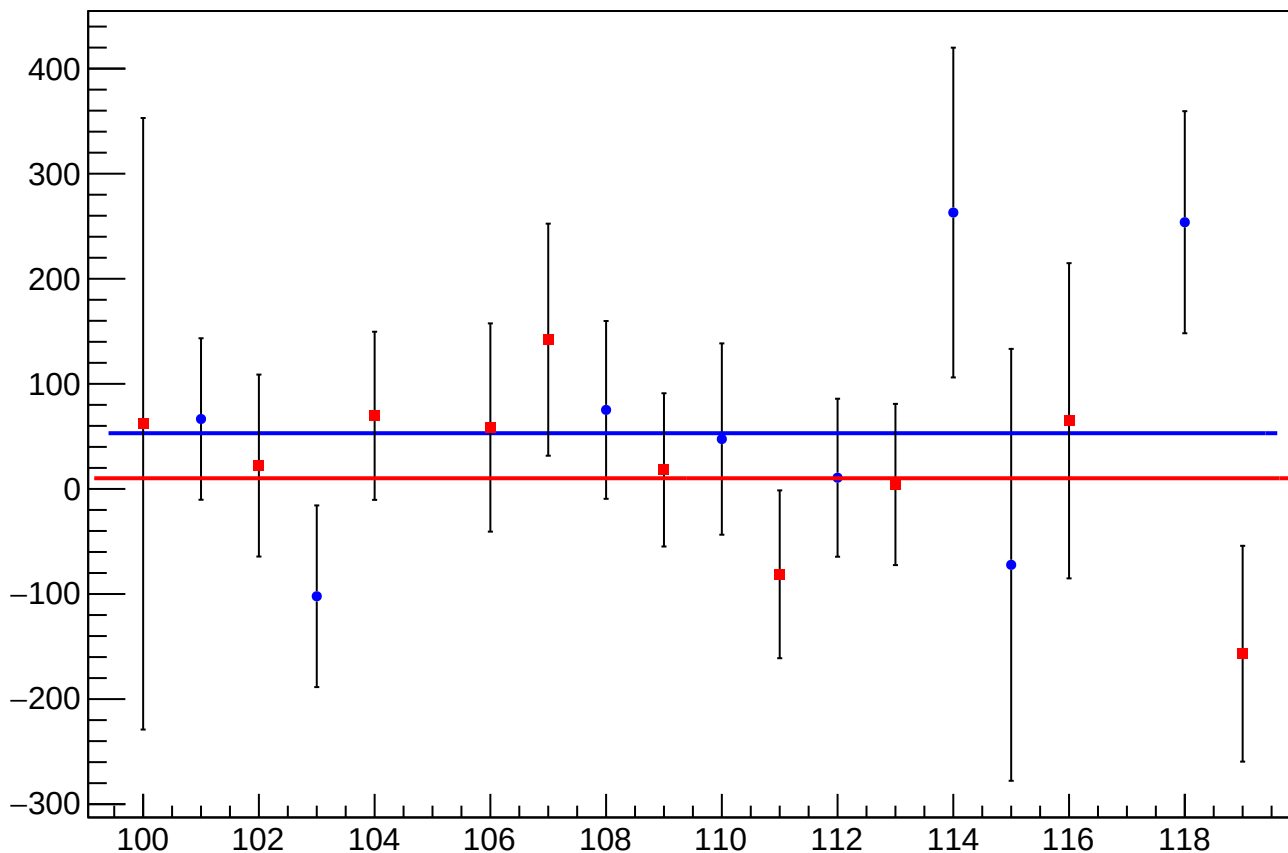
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 917078.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 53.034+/-33.440  $\chi^2/\text{NDF}$ : 9.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.162+/-29.625  $\chi^2/\text{NDF}$ : 6.4/9

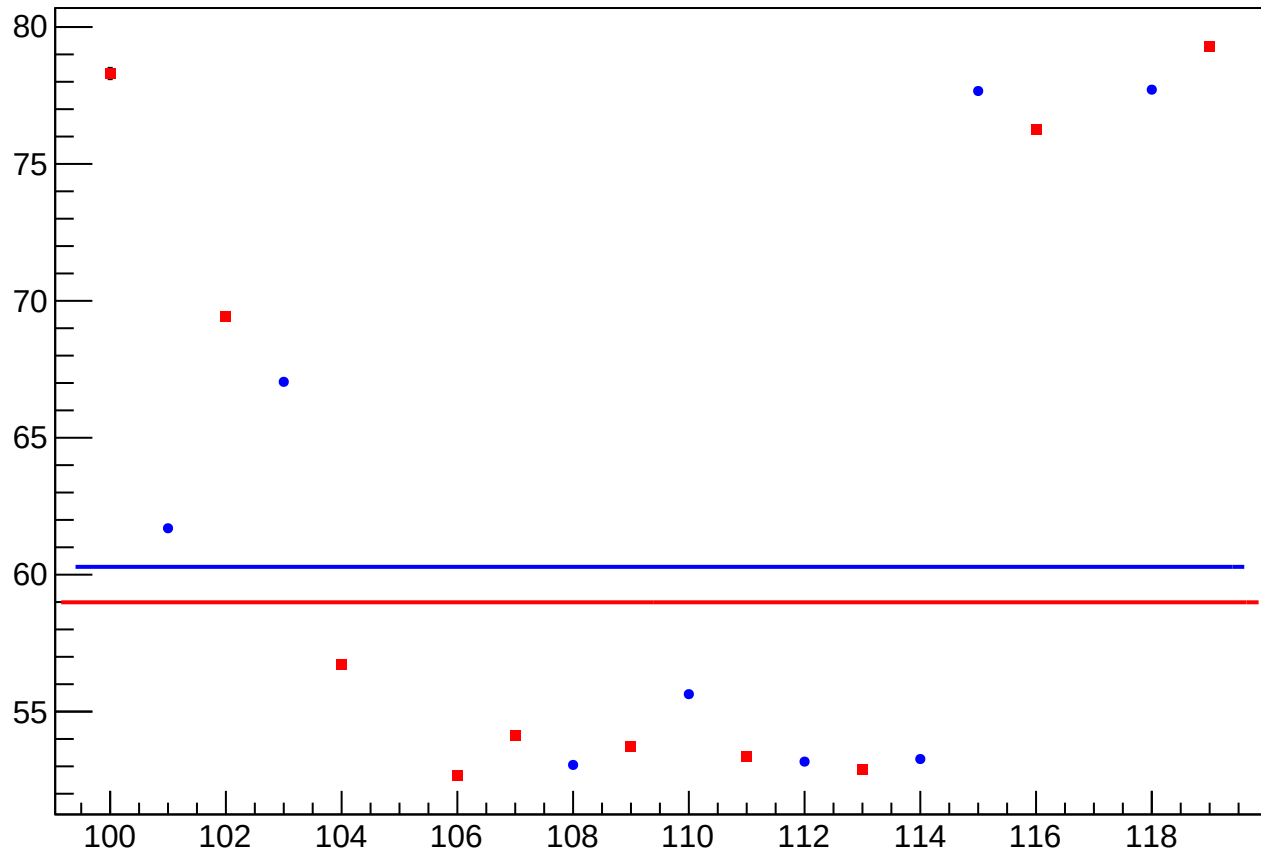
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.014+/-22.175  $\chi^2/\text{NDF}$ : 16.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 60.286 $\pm$ 0.024  $\chi^2$ /NDF: 123324.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 58.991 $\pm$ 0.021  $\chi^2$ /NDF: 189352.0/9

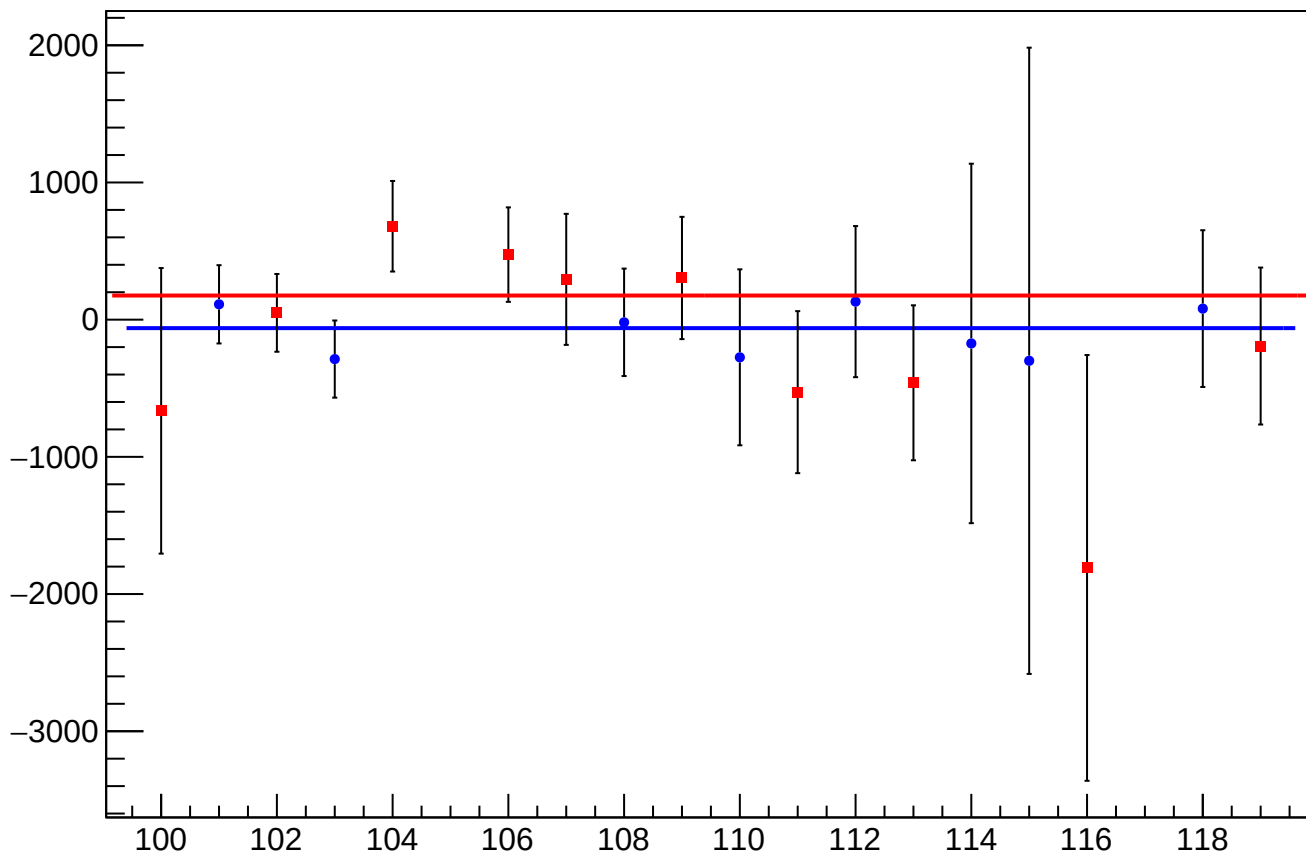
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 59.560 $\pm$ 0.016  $\chi^2$ /NDF: 314357.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_reg\_correction\_mean vs Slug



Right In: -61.708 $\pm$ 156.136  $\chi^2$ /NDF: 1.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 175.896 $\pm$ 141.590  $\chi^2$ /NDF: 8.8/9

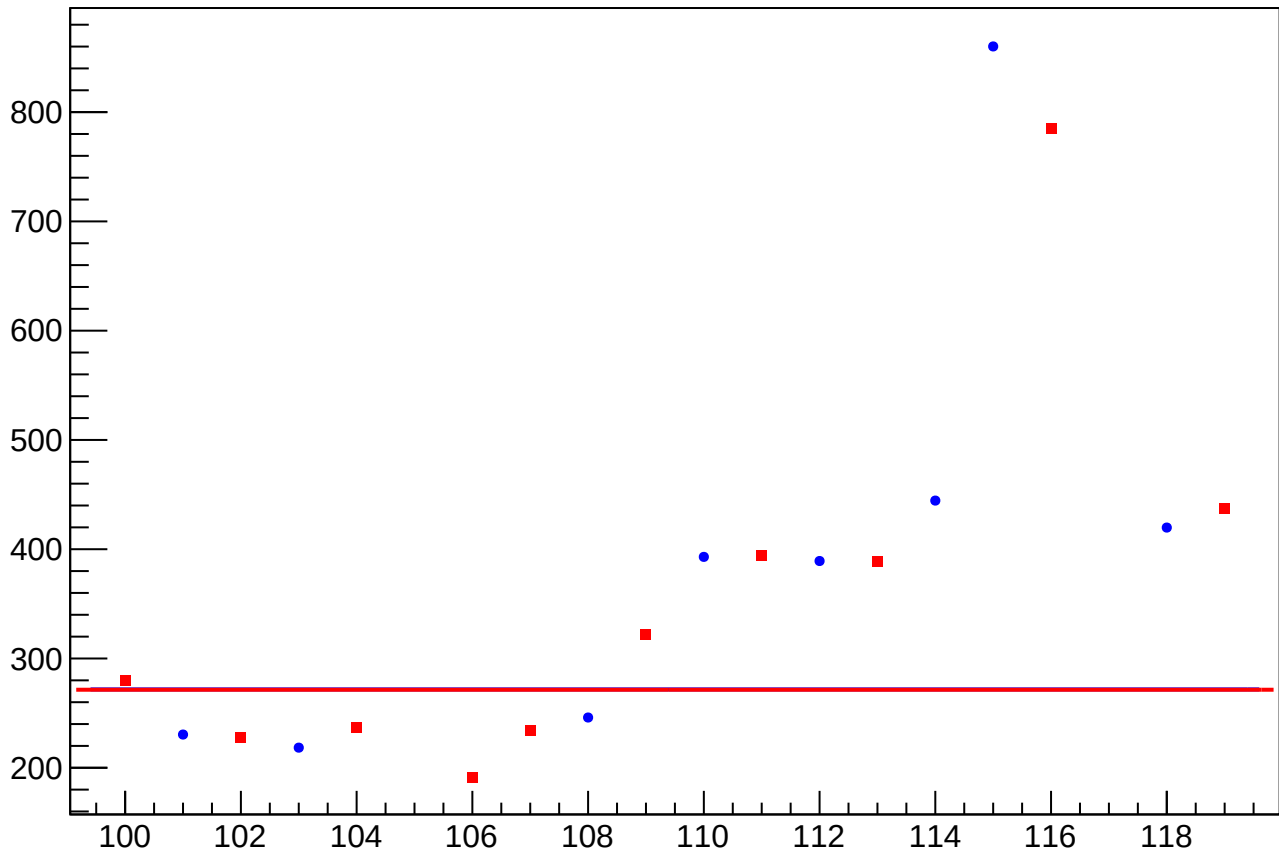
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 68.675 $\pm$ 104.886  $\chi^2$ /NDF: 11.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_reg\_correction\_rms vs Slug



Right In: 271.715 $\pm$ 0.110  $\chi^2$ /NDF: 587143.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 271.406 $\pm$ 0.100  $\chi^2$ /NDF: 776995.4/9

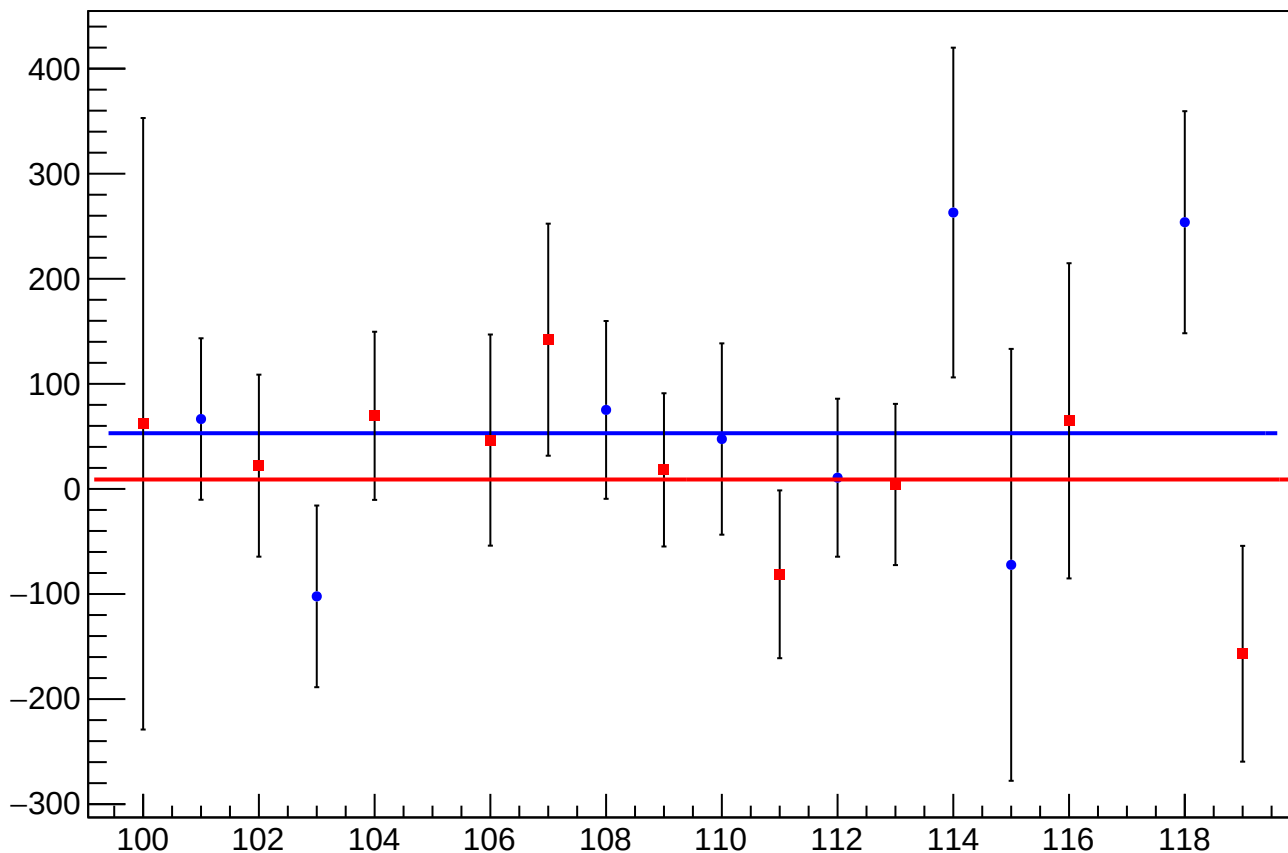
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 271.545 $\pm$ 0.074  $\chi^2$ /NDF: 1364143.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 53.025 $\pm$ 33.440  $\chi^2$ /NDF: 9.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8.983 $\pm$ 29.663  $\chi^2$ /NDF: 6.3/9

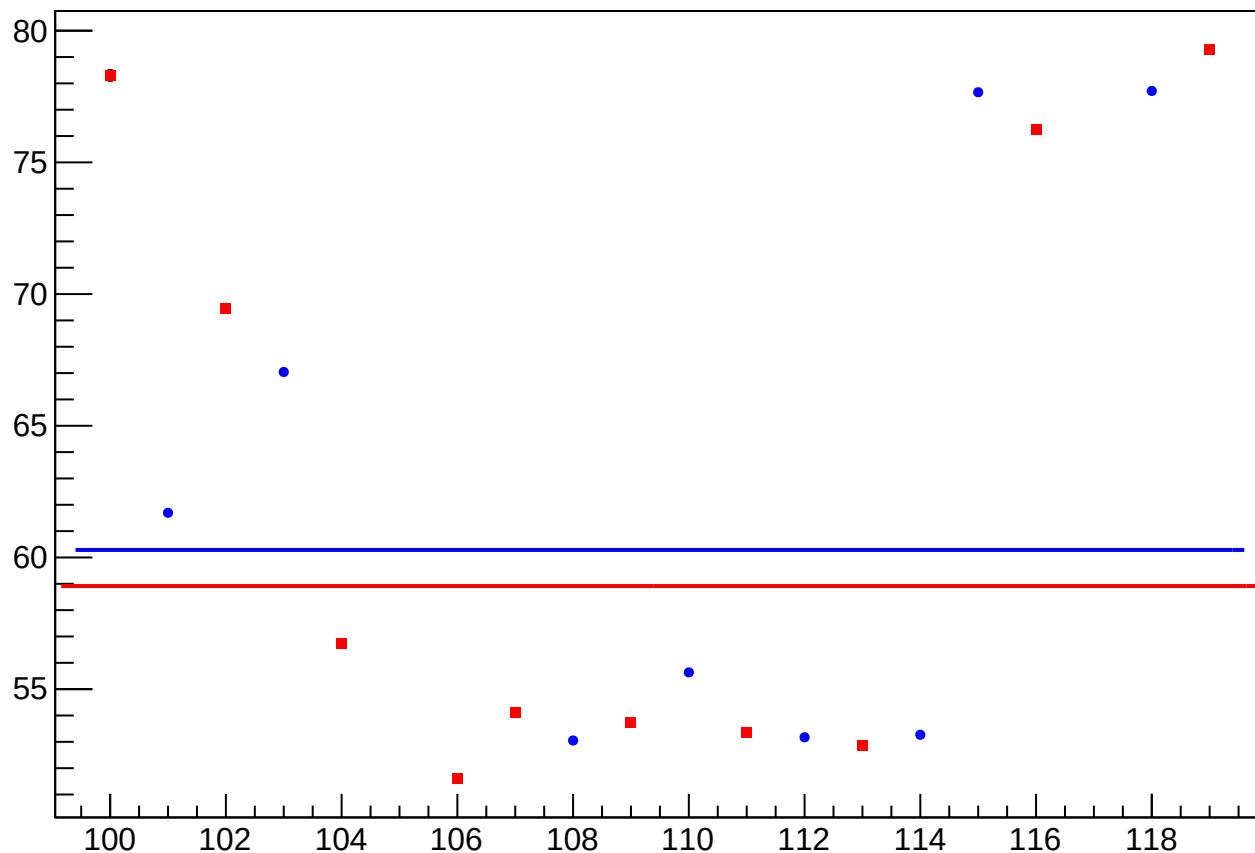
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28.377 $\pm$ 22.190  $\chi^2$ /NDF: 16.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 60.286 $\pm$ 0.024  $\chi^2$ /NDF: 123324.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 58.915 $\pm$ 0.021  $\chi^2$ /NDF: 192087.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

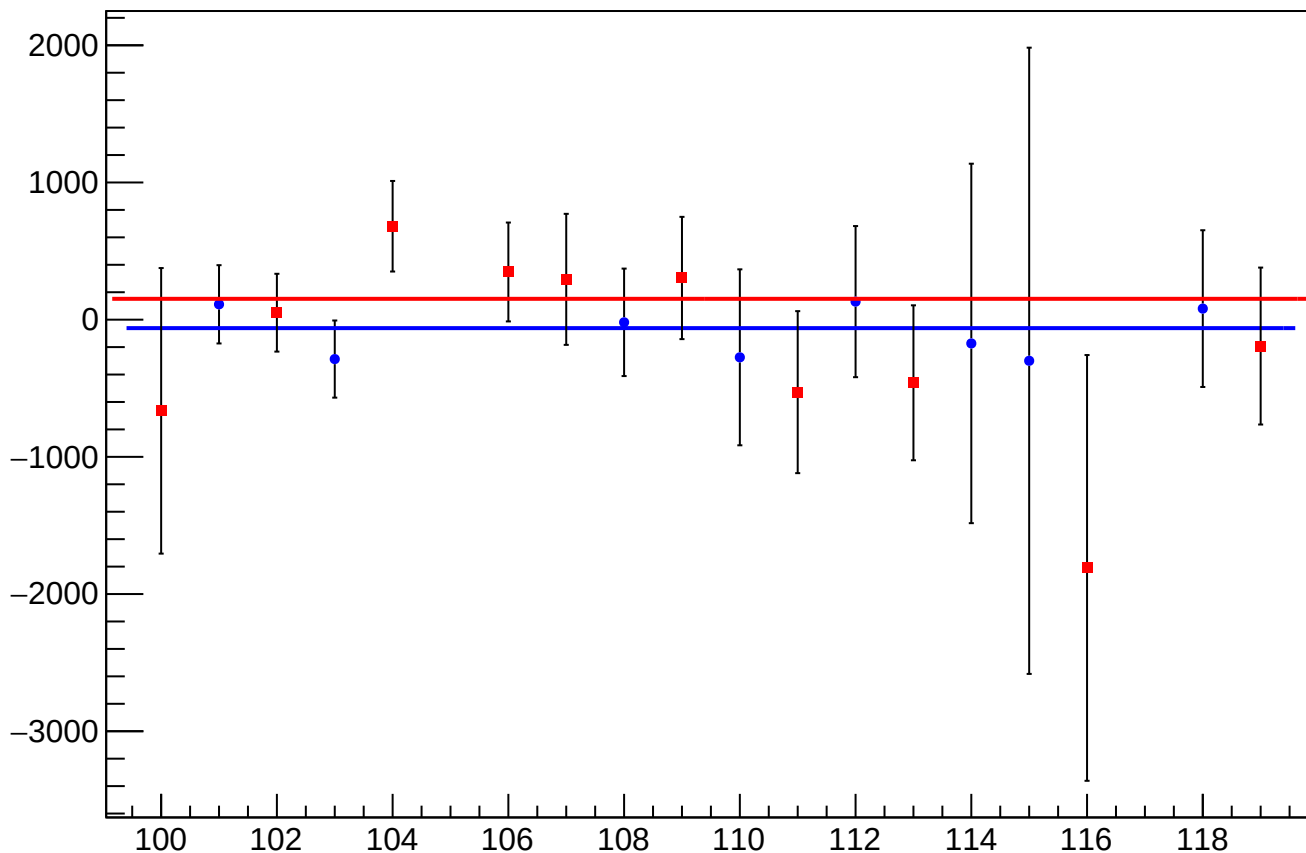
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 59.519 $\pm$ 0.016  $\chi^2$ /NDF: 317292.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_48\_dd\_cor\_correction\_mean vs Slug



Right In: -61.684+/-156.138  $\chi^2/\text{NDF}$ : 1.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 151.939+/-142.667  $\chi^2/\text{NDF}$ : 8.3/9

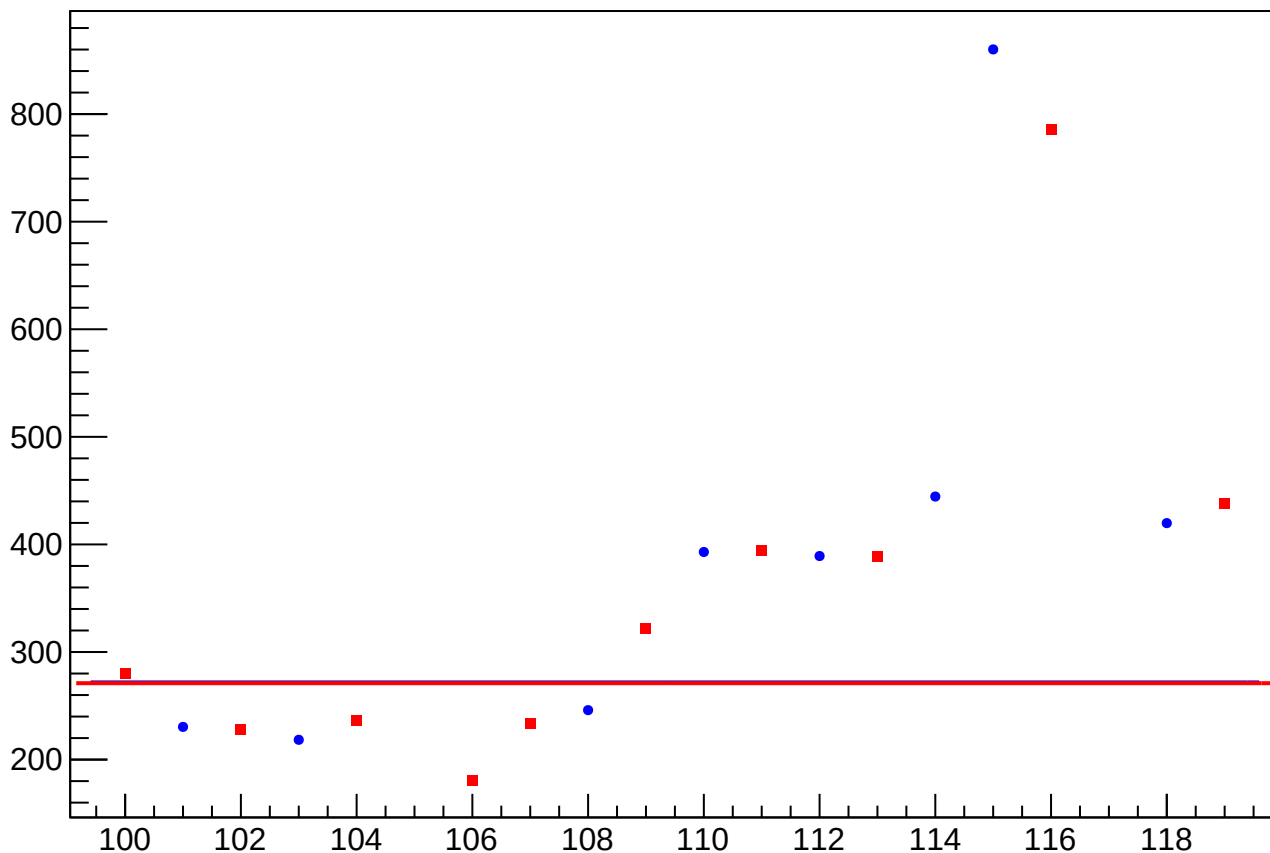
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.739+/-105.322  $\chi^2/\text{NDF}$ : 10.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_cor\_correction\_rms vs Slug



Right In: 271.718+/-0.110  $\chi^2/\text{NDF}$ : 587117.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 271.013+/-0.101  $\chi^2/\text{NDF}$ : 794827.0/9

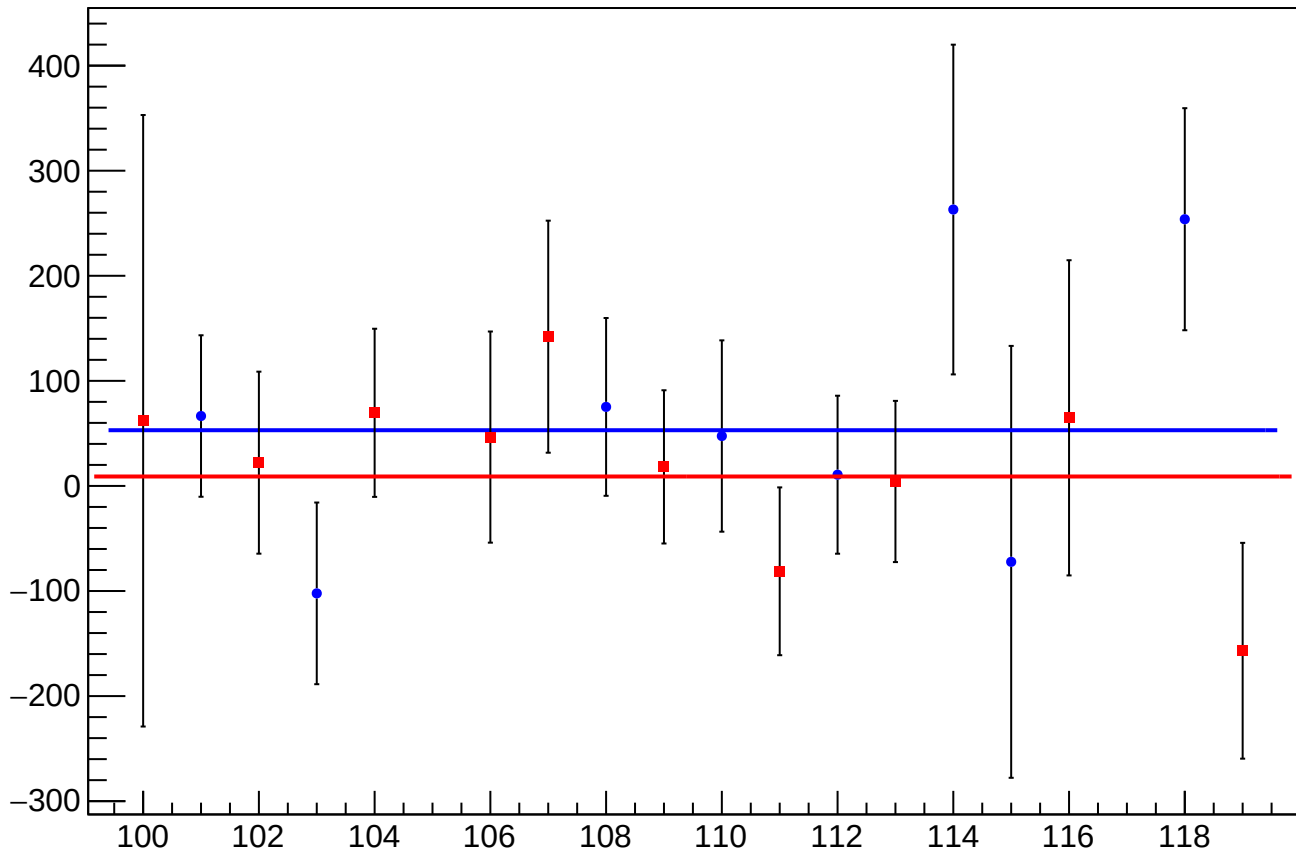
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 271.334+/-0.074  $\chi^2/\text{NDF}$ : 1381966.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 53.025+/-33.440  $\chi^2/\text{NDF}$ : 9.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.983+/-29.663  $\chi^2/\text{NDF}$ : 6.3/9

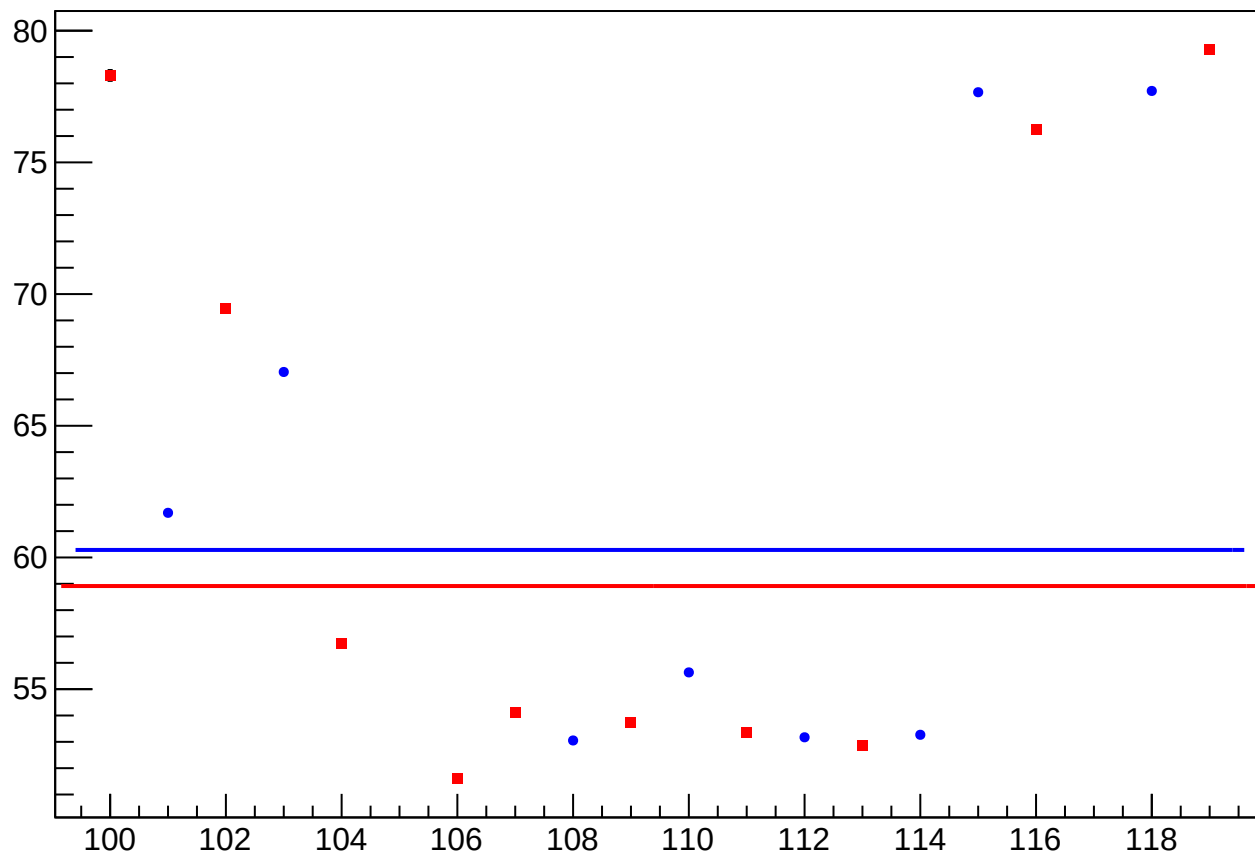
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.377+/-22.190  $\chi^2/\text{NDF}$ : 16.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 60.286 $\pm$ 0.024  $\chi^2$ /NDF: 123324.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 58.915 $\pm$ 0.021  $\chi^2$ /NDF: 192087.3/9

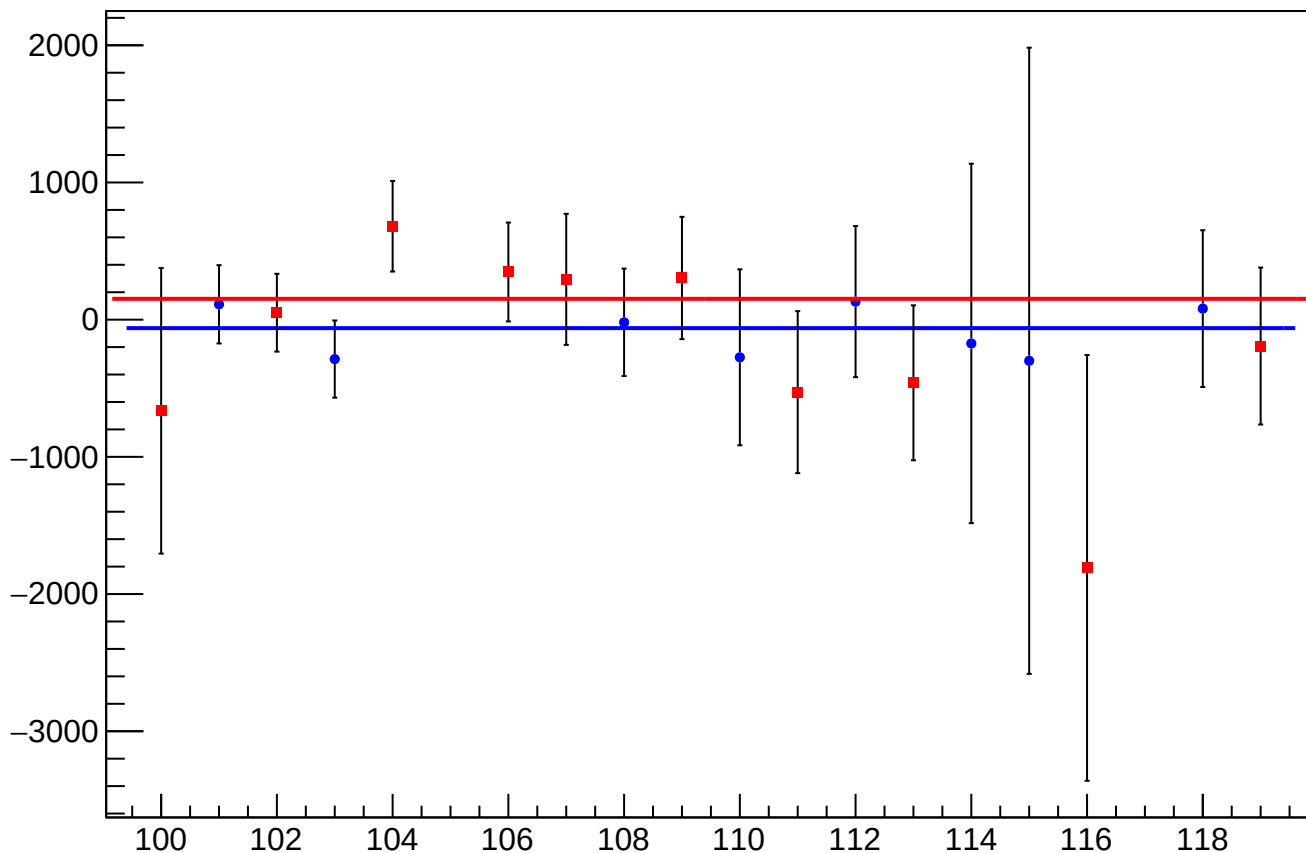
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 59.519 $\pm$ 0.016  $\chi^2$ /NDF: 317292.1/17

- 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: -61.684 $\pm$ 156.138  $\chi^2$ /NDF: 1.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 151.939 $\pm$ 142.667  $\chi^2$ /NDF: 8.3/9

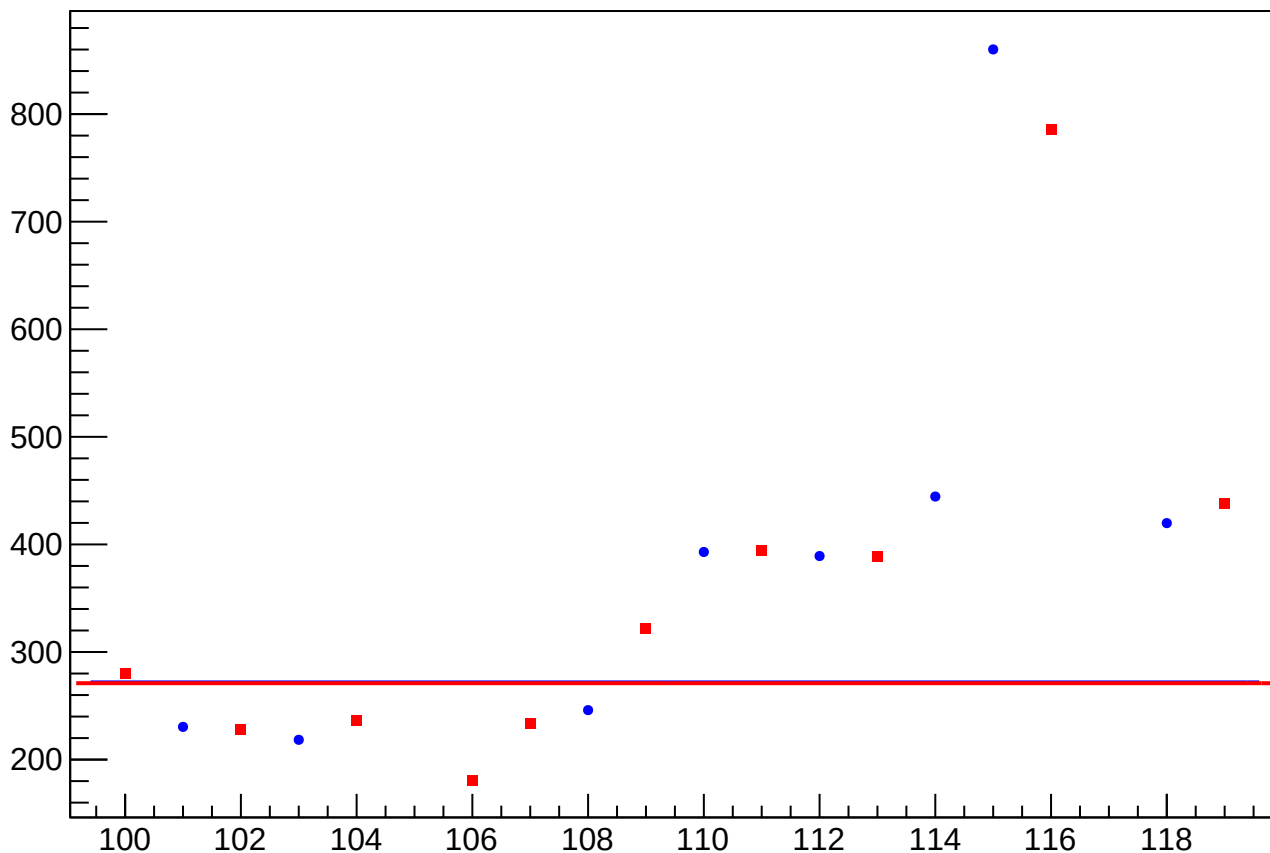
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 54.739 $\pm$ 105.322  $\chi^2$ /NDF: 10.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 271.718+/-0.110  $\chi^2/\text{NDF}$ : 587117.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 271.013+/-0.101  $\chi^2/\text{NDF}$ : 794827.0/9

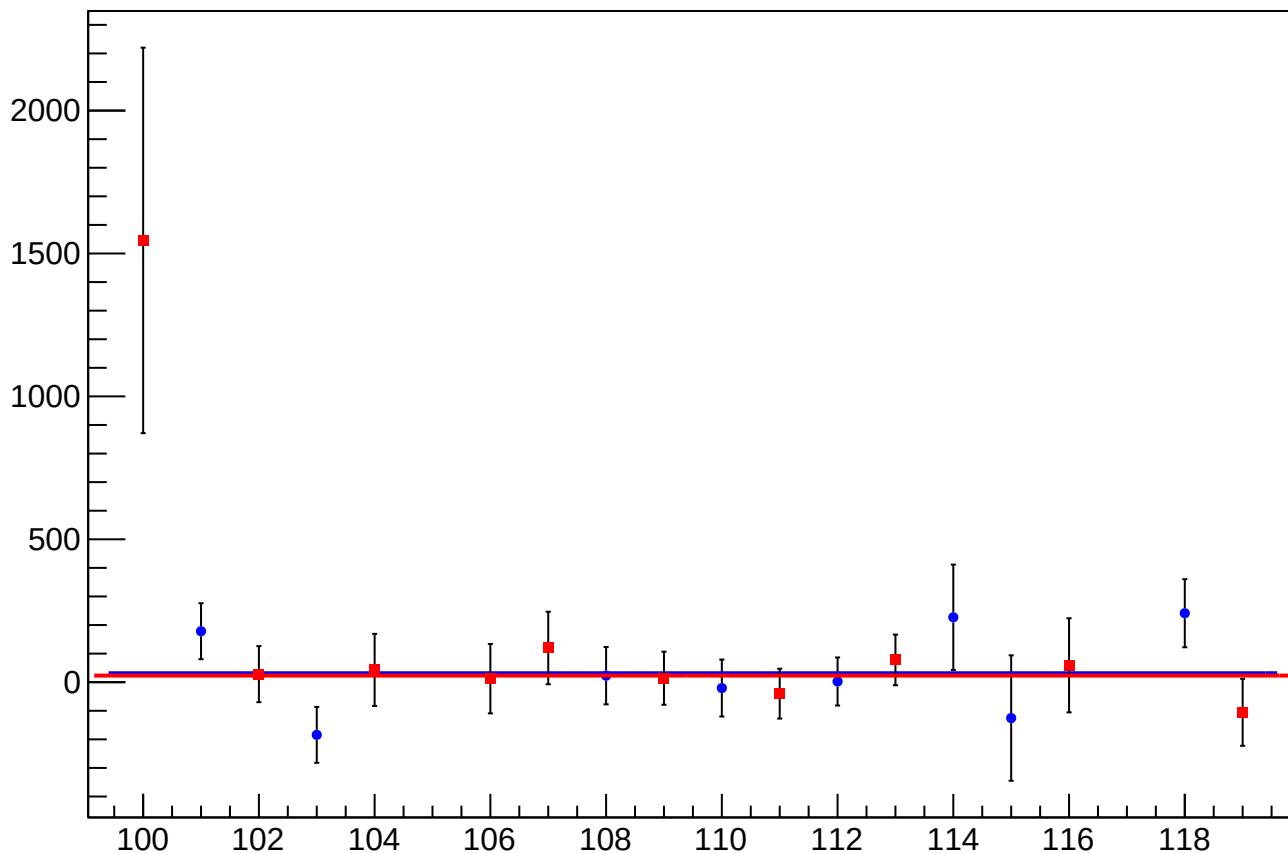
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 271.334+/-0.074  $\chi^2/\text{NDF}$ : 1381966.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 31.322 $\pm$ 38.607  $\chi^2$ /NDF: 12.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 23.161 $\pm$ 35.735  $\chi^2$ /NDF: 7.9/9

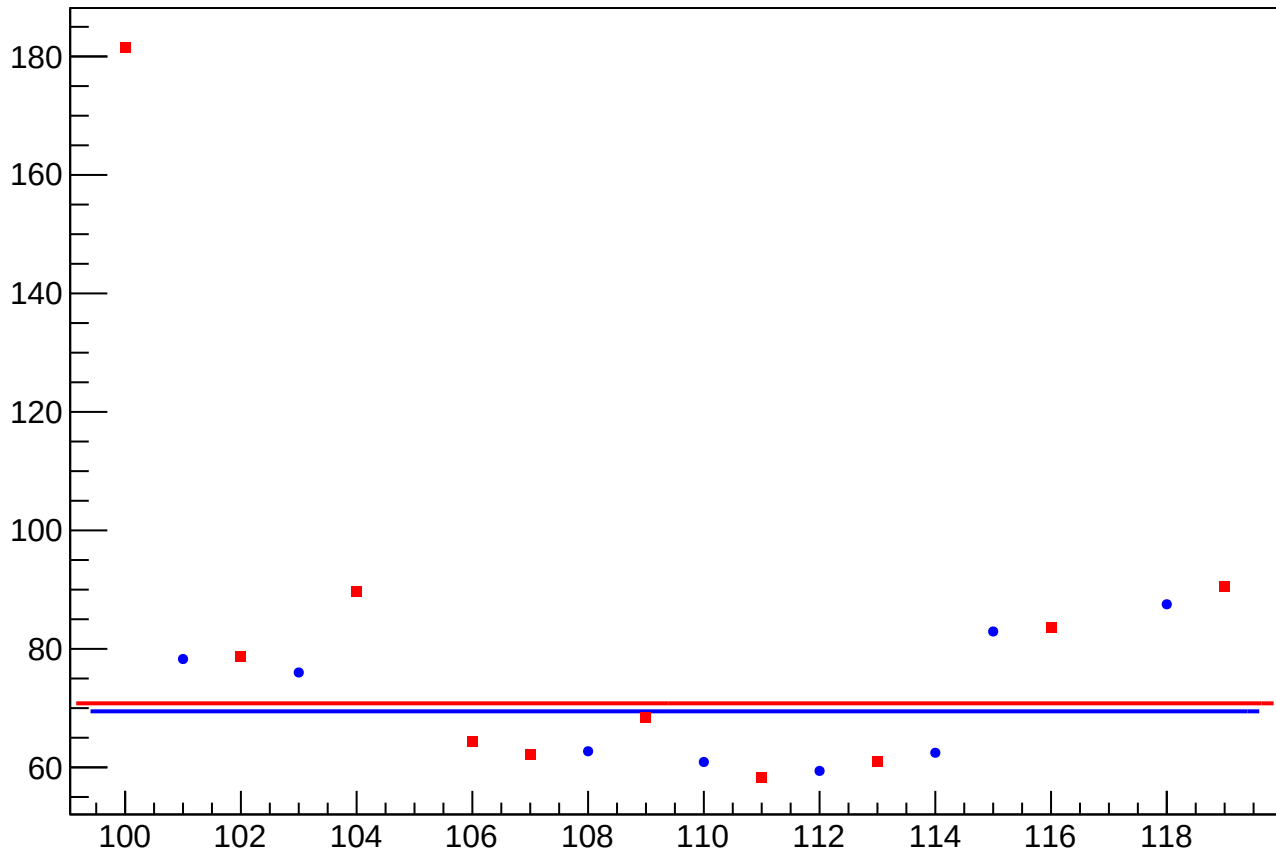
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 26.927 $\pm$ 26.225  $\chi^2$ /NDF: 20.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 69.458+/-0.027  $\chi^2/\text{NDF}$ : 134053.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 70.809+/-0.025  $\chi^2/\text{NDF}$ : 262381.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

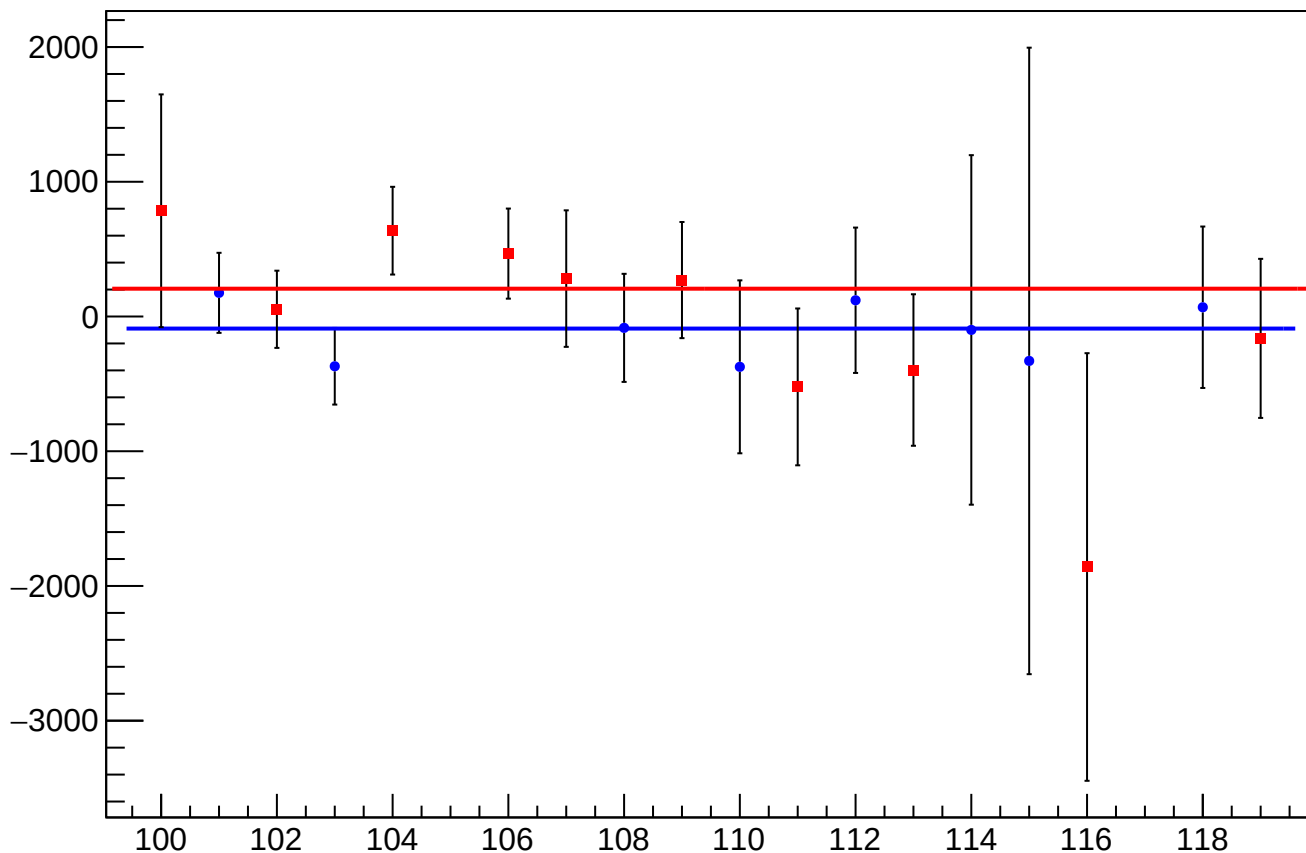
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.186+/-0.019  $\chi^2/\text{NDF}$ : 397754.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_48\_dd\_dit\_correction\_mean vs Slug



Right In: -89.584+/-159.433  $\chi^2/\text{NDF}$ : 2.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 206.396+/-140.640  $\chi^2/\text{NDF}$ : 7.9/9

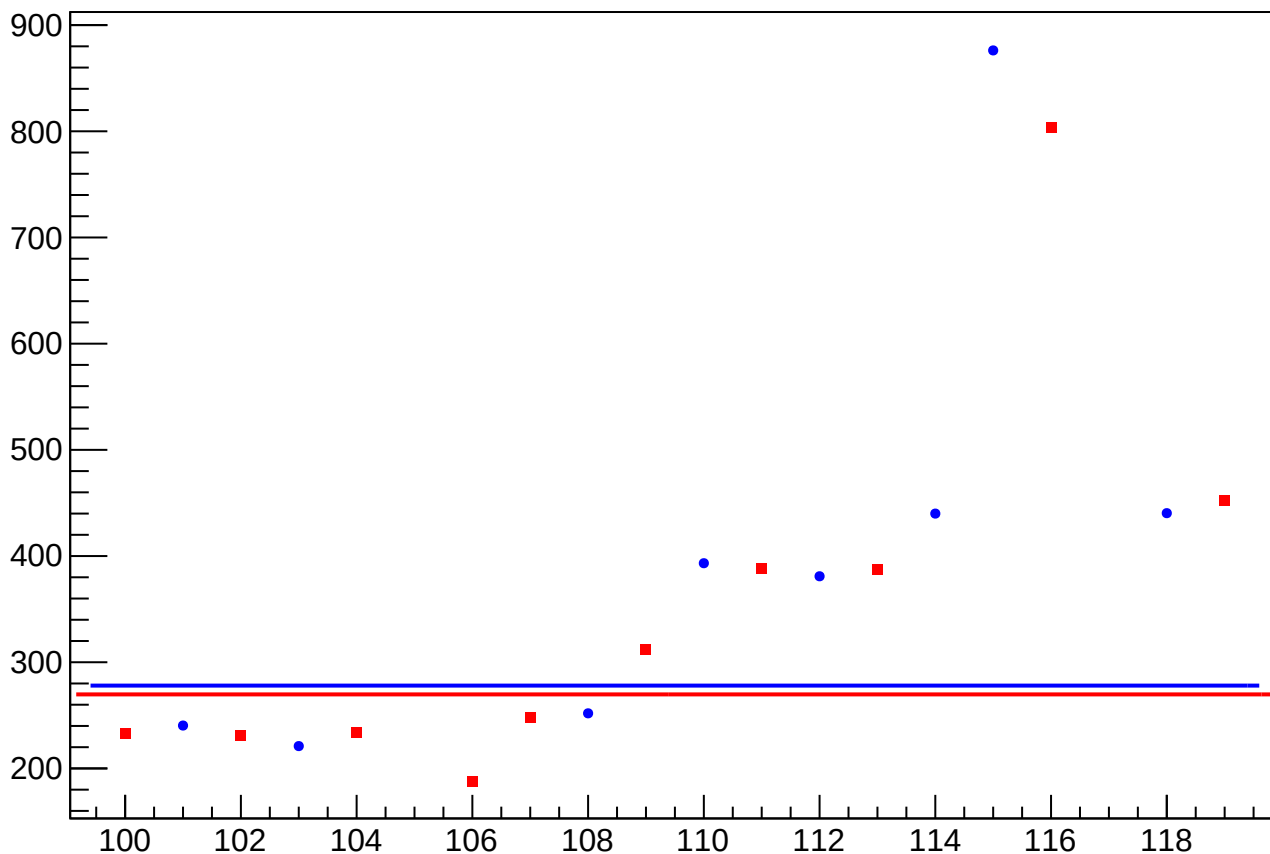
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 76.870+/-105.469  $\chi^2/\text{NDF}$ : 12.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_dit\_correction\_rms vs Slug



Right In: 278.003 $\pm$ 0.113  $\chi^2$ /NDF: 568661.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 269.714 $\pm$ 0.099  $\chi^2$ /NDF: 796678.5/9

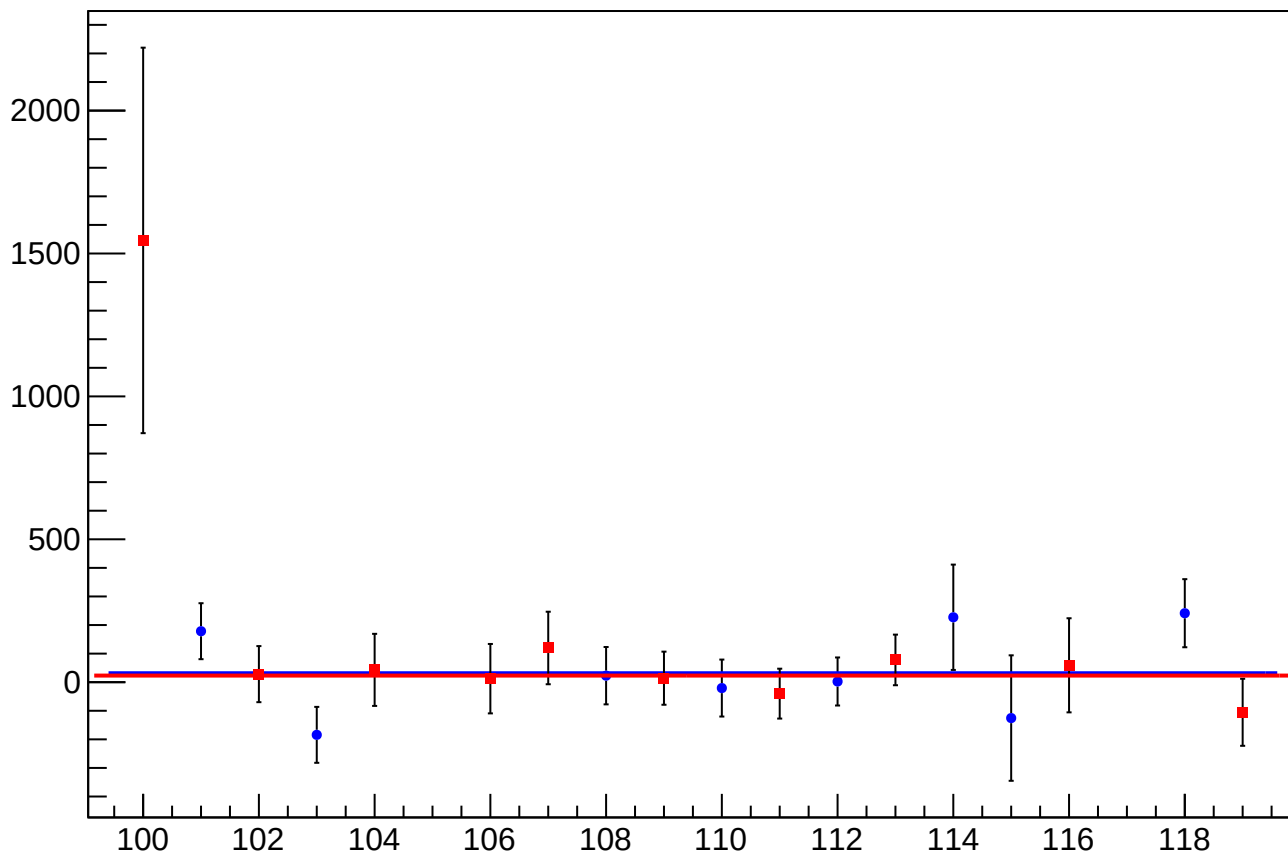
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 273.342 $\pm$ 0.075  $\chi^2$ /NDF: 1368380.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 31.323+/-38.607  $\chi^2/\text{NDF}$ : 12.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23.161+/-35.735  $\chi^2/\text{NDF}$ : 7.9/9

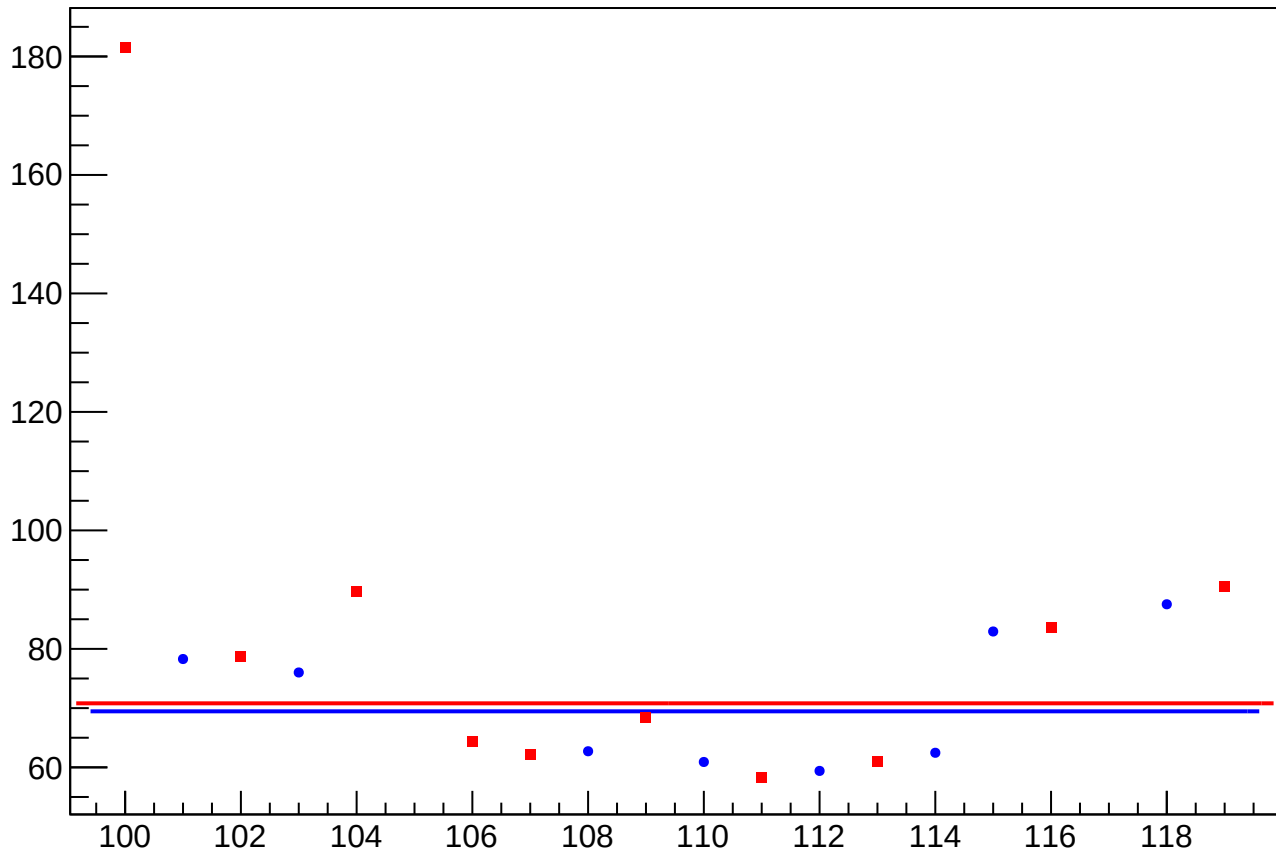
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 26.927+/-26.225  $\chi^2/\text{NDF}$ : 20.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 69.458+/-0.027  $\chi^2/\text{NDF}$ : 134054.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 70.809+/-0.025  $\chi^2/\text{NDF}$ : 262384.5/9

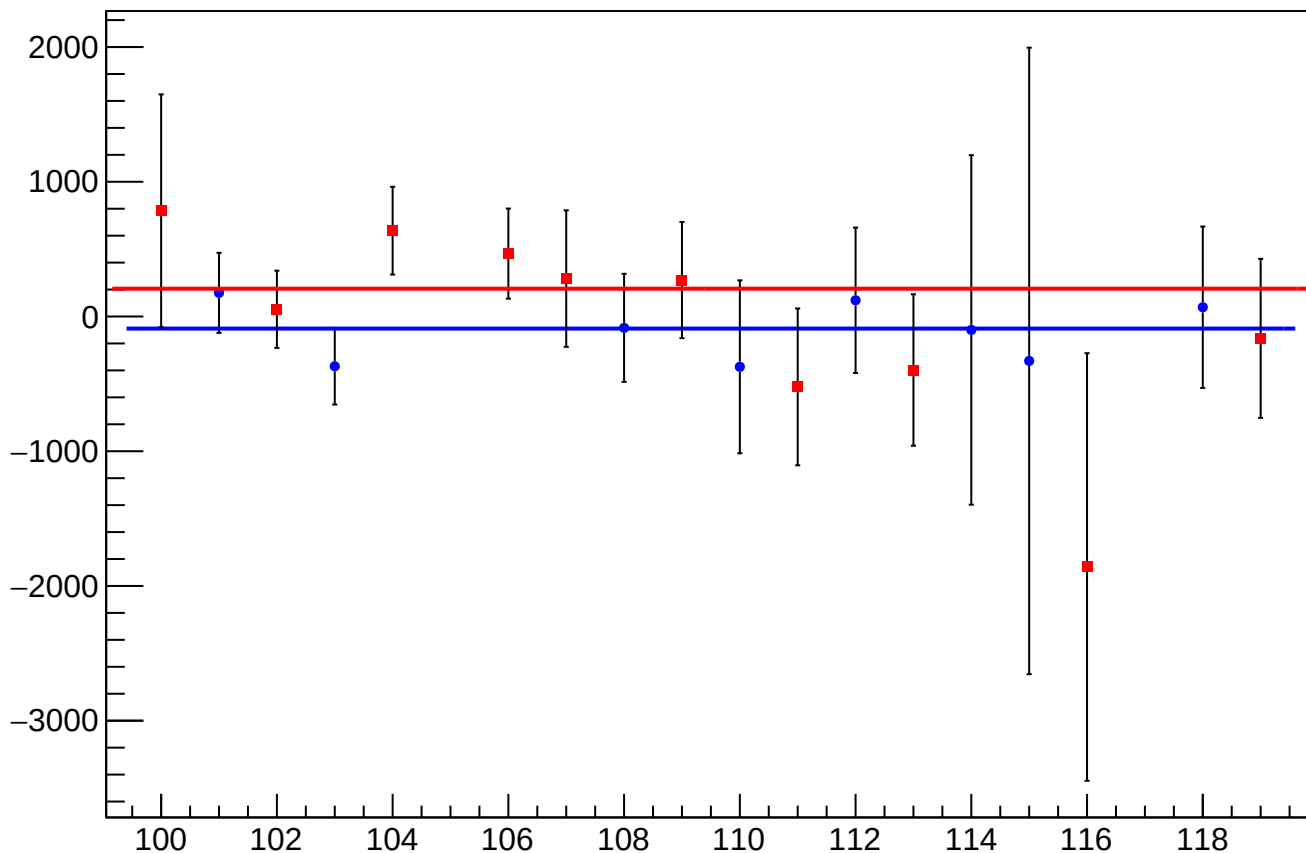
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.186+/-0.019  $\chi^2/\text{NDF}$ : 397758.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -89.585+/-159.434  $\chi^2/\text{NDF}$ : 2.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 206.396+/-140.640  $\chi^2/\text{NDF}$ : 7.9/9

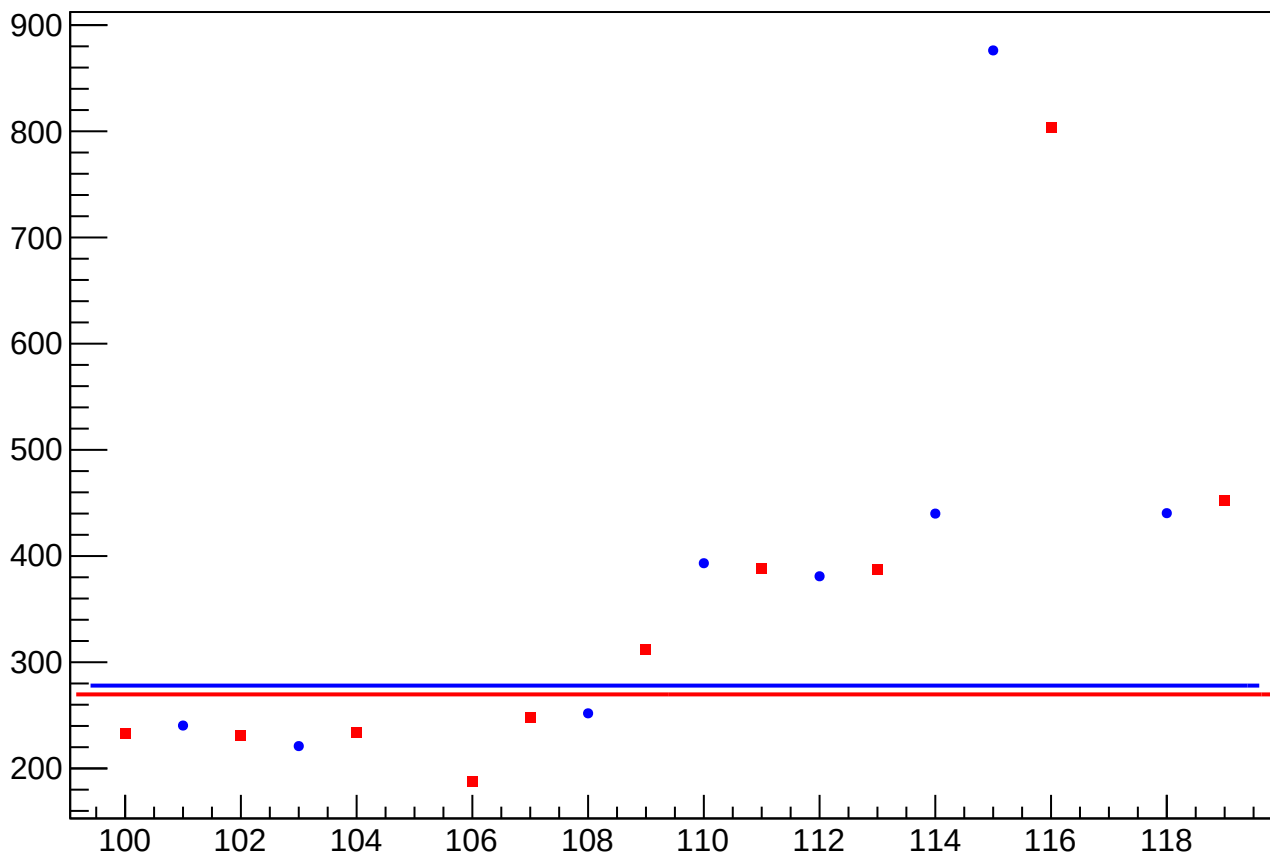
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 76.870+/-105.469  $\chi^2/\text{NDF}$ : 12.1/17

- 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: 278.003 $\pm$ 0.113  $\chi^2$ /NDF: 568660.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 269.714 $\pm$ 0.099  $\chi^2$ /NDF: 796676.5/9

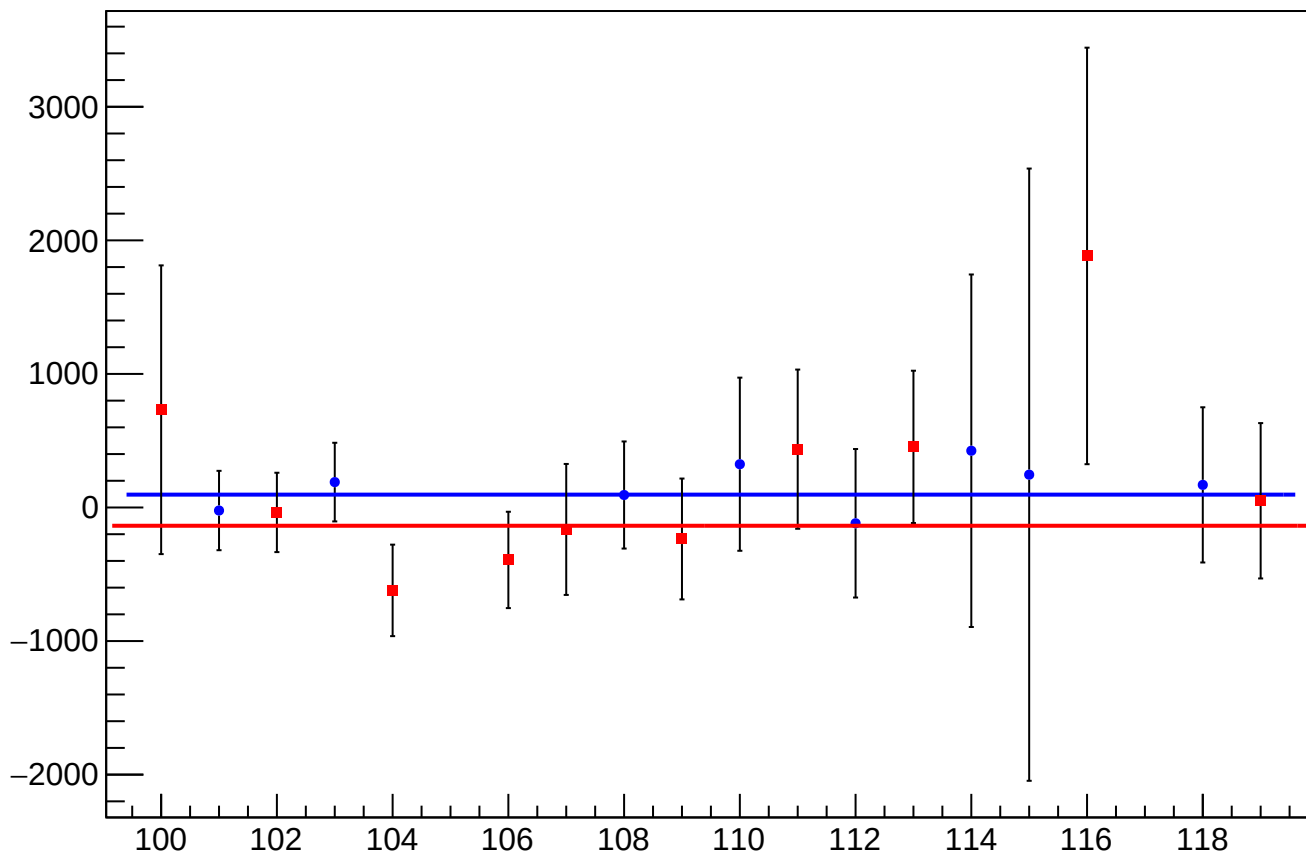
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 273.342 $\pm$ 0.075  $\chi^2$ /NDF: 1368377.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 96.296+/-161.300  $\chi^2/\text{NDF}$ : 0.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -136.745+/-146.328  $\chi^2/\text{NDF}$ : 7.1/9

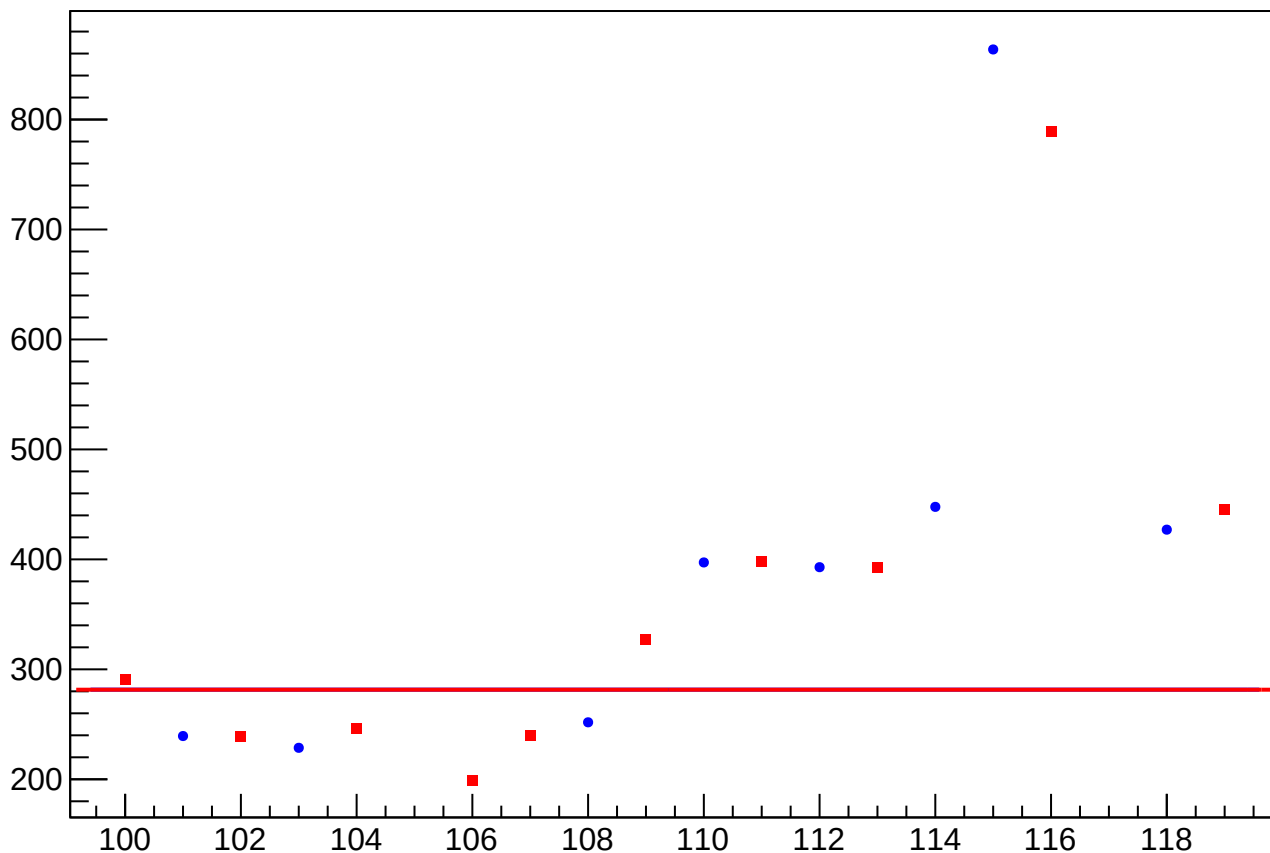
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -31.539+/-108.377  $\chi^2/\text{NDF}$ : 8.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 281.516 $\pm$ 0.114  $\chi^2$ /NDF: 546074.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 281.469 $\pm$ 0.103  $\chi^2$ /NDF: 724415.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

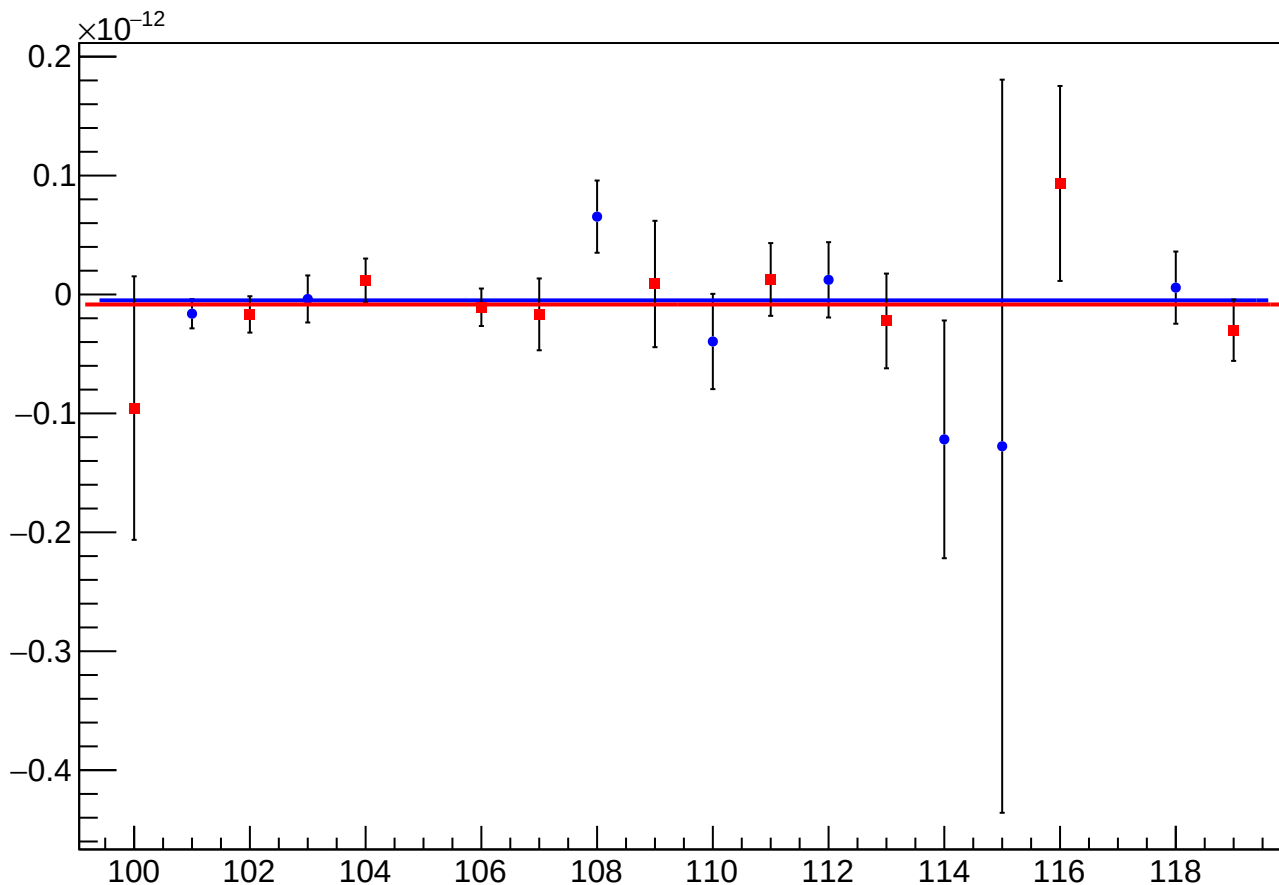
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 281.490 $\pm$ 0.077  $\chi^2$ /NDF: 1270490.0/17

- 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  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 5.1/9

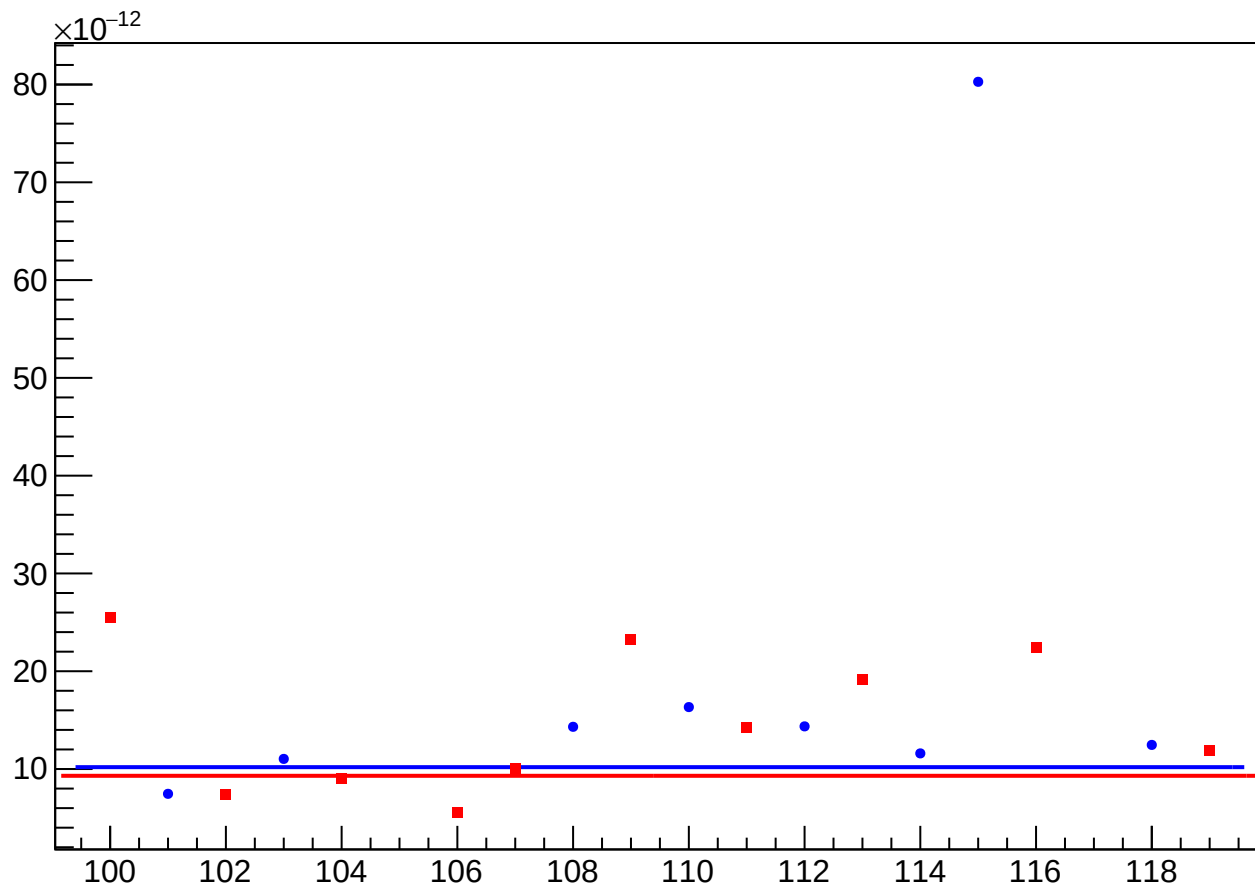
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 14.1/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 335333.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 574598.6/9

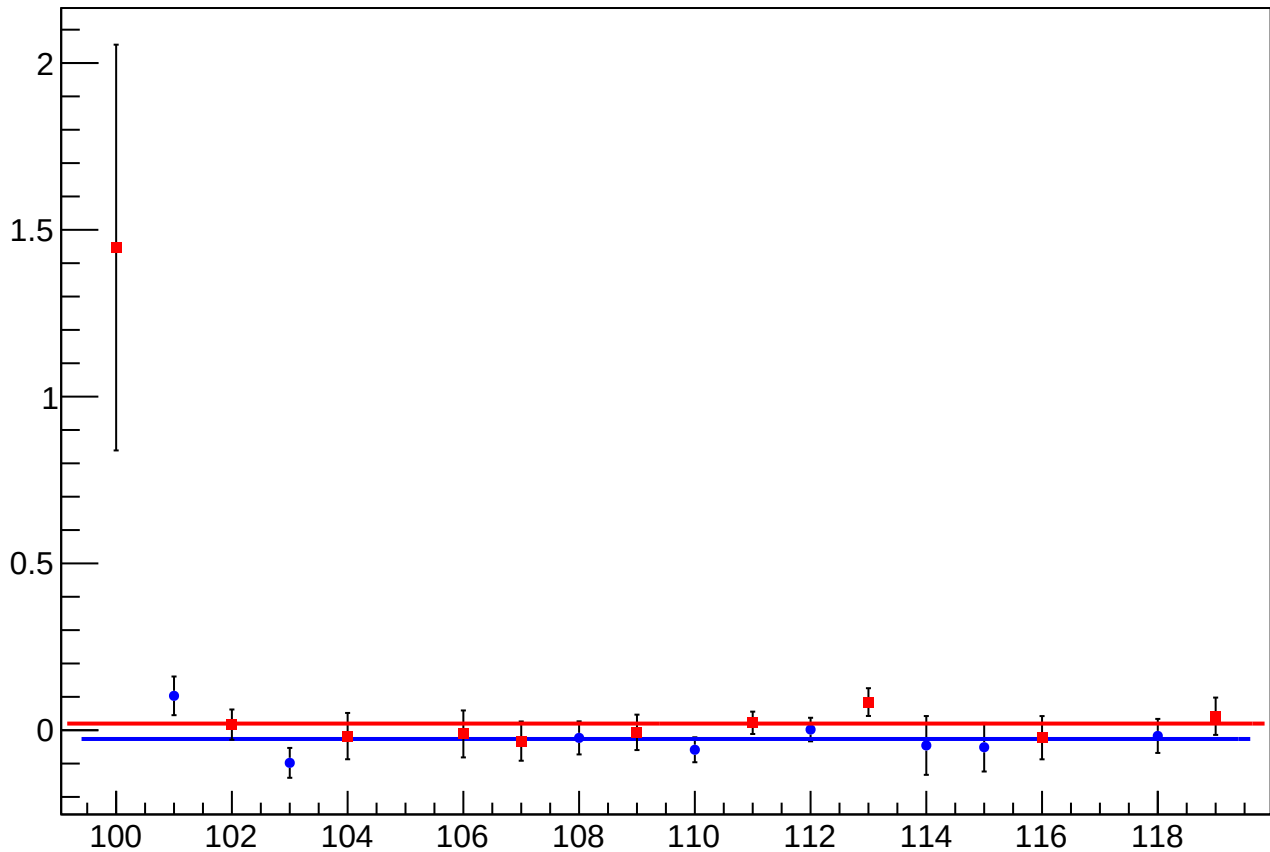
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 921208.2/17

- 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: -0.026+/-0.017  $\chi^2/\text{NDF}$ : 9.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.020+/-0.017  $\chi^2/\text{NDF}$ : 10.0/9

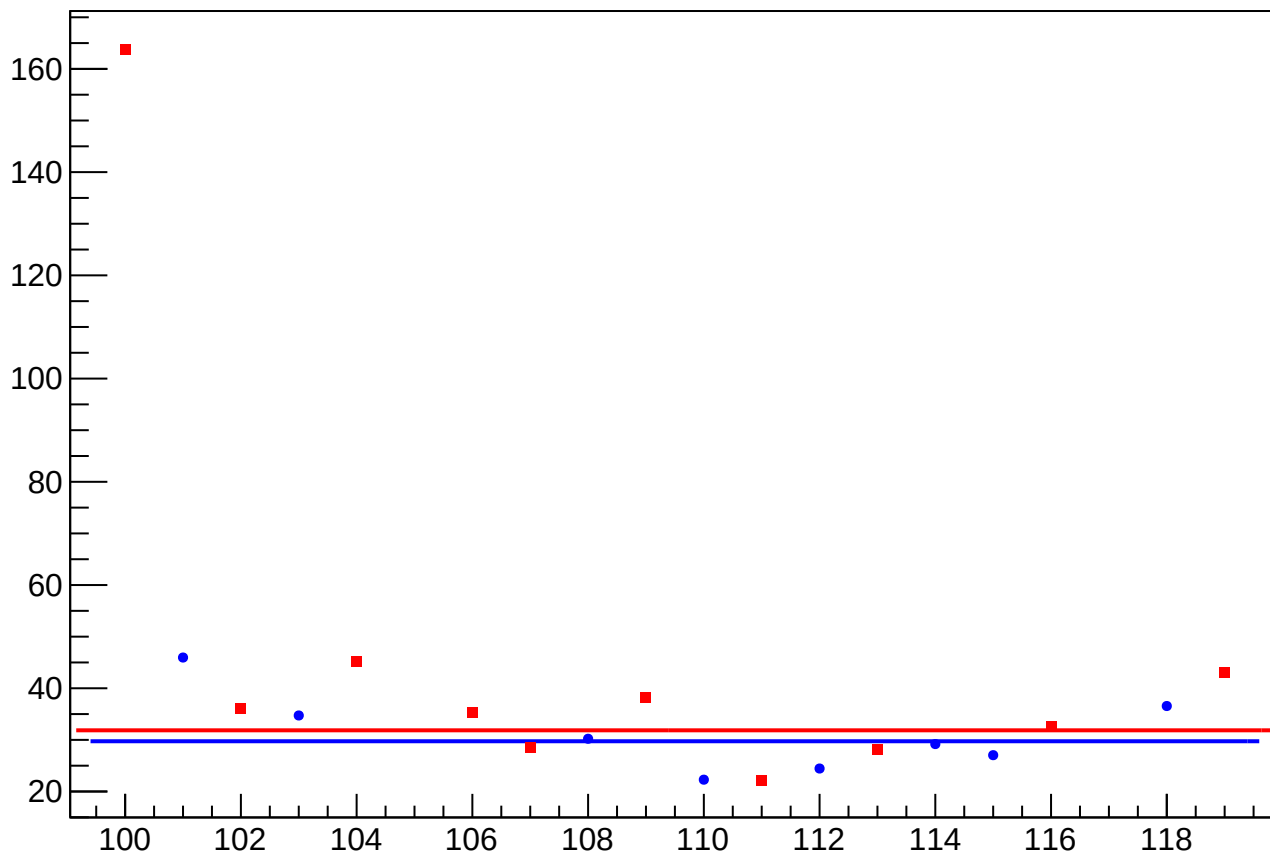
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.003+/-0.012  $\chi^2/\text{NDF}$ : 22.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 29.734 $\pm$ 0.012  $\chi^2$ /NDF: 344454.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 31.854 $\pm$ 0.012  $\chi^2$ /NDF: 490541.1/9

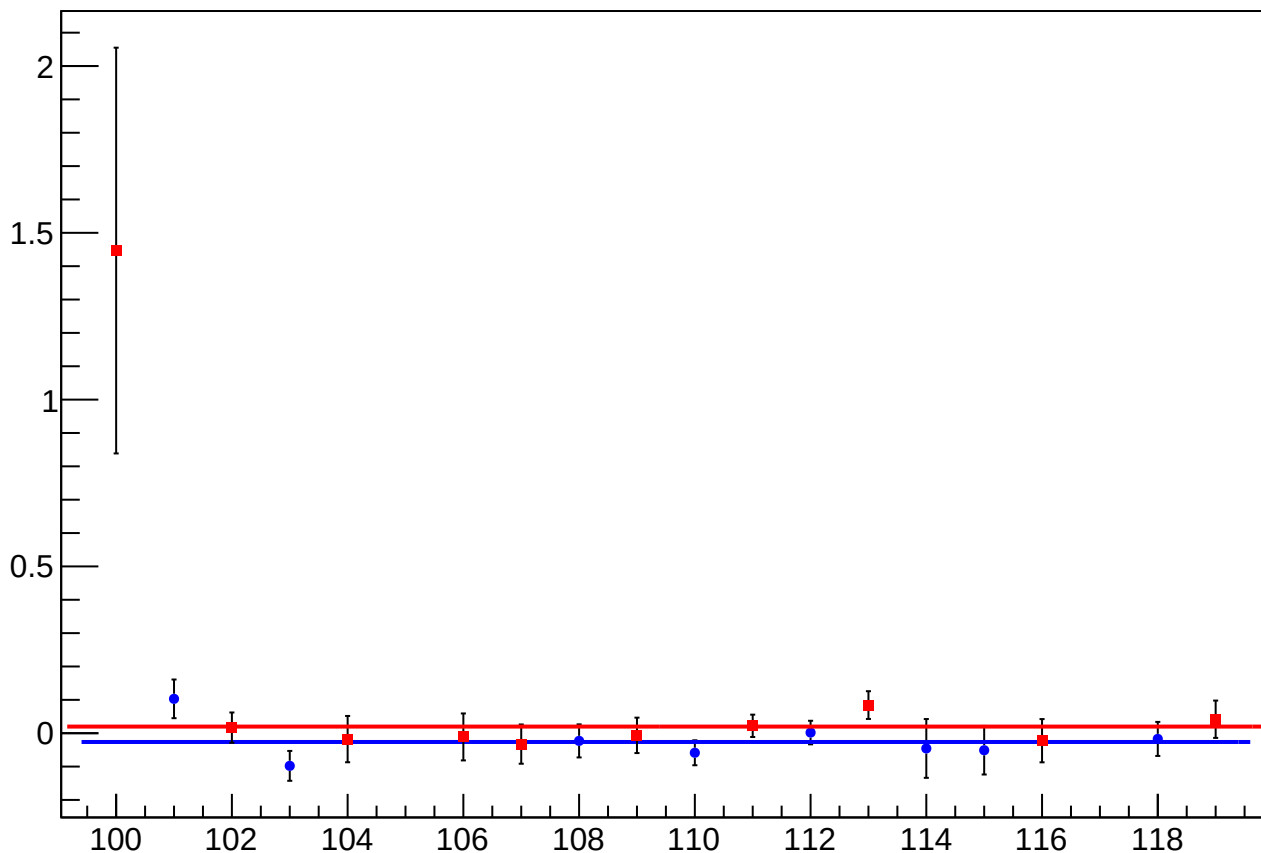
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 30.816 $\pm$ 0.008  $\chi^2$ /NDF: 850689.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.026 $\pm$ 0.017  $\chi^2$ /NDF: 9.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.020 $\pm$ 0.017  $\chi^2$ /NDF: 10.0/9

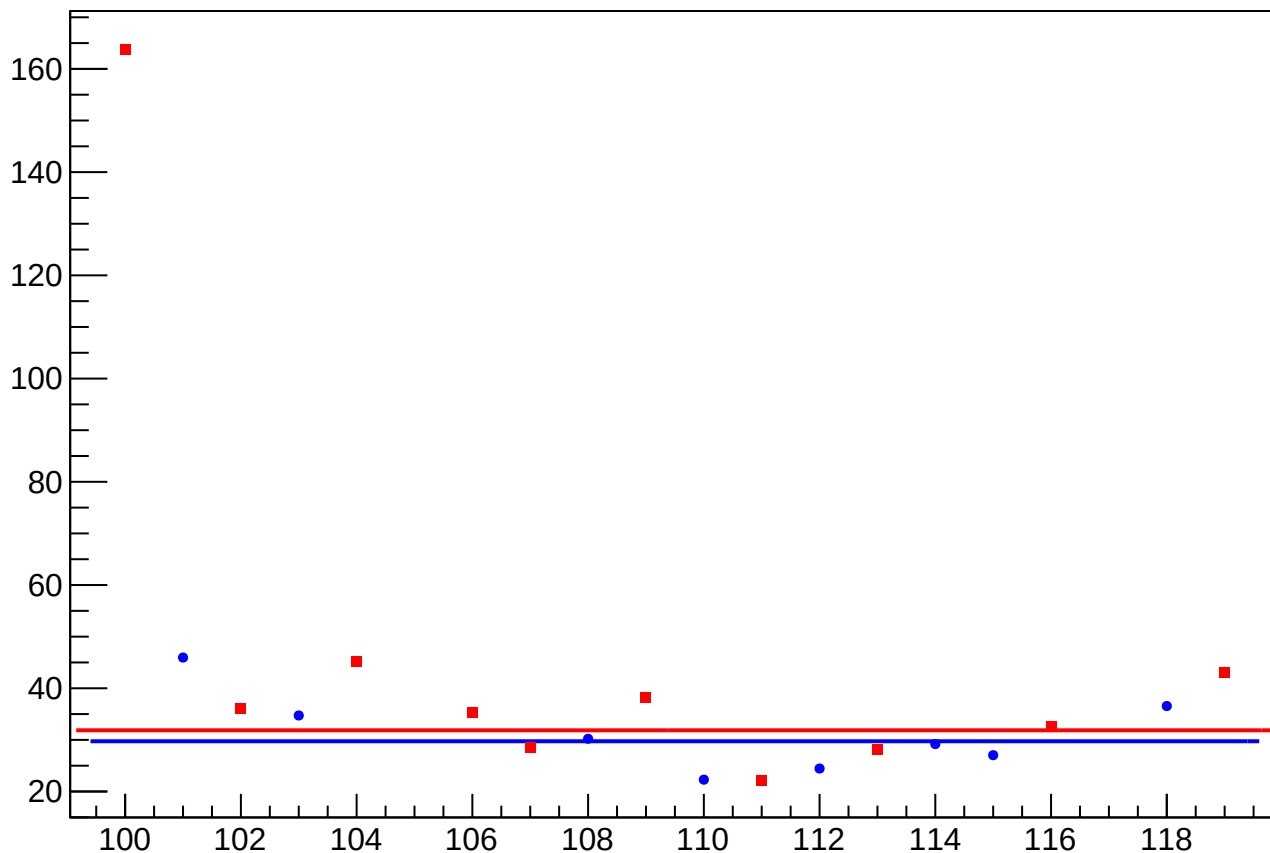
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.012  $\chi^2$ /NDF: 22.9/17

- 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: 29.734+/-0.012  $\chi^2/\text{NDF}$ : 344454.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.854+/-0.012  $\chi^2/\text{NDF}$ : 490541.1/9

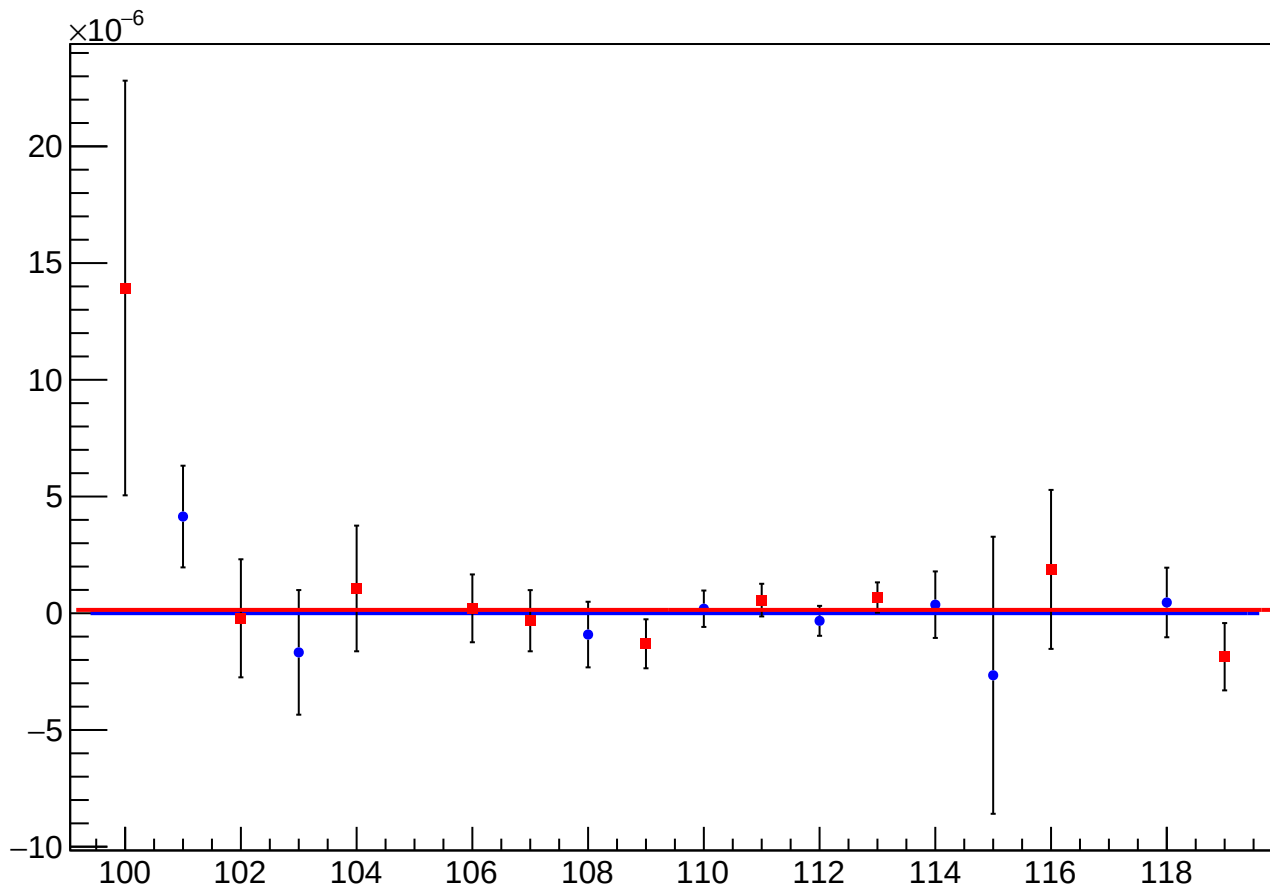
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.816+/-0.008  $\chi^2/\text{NDF}$ : 850689.2/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 5.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.8/9

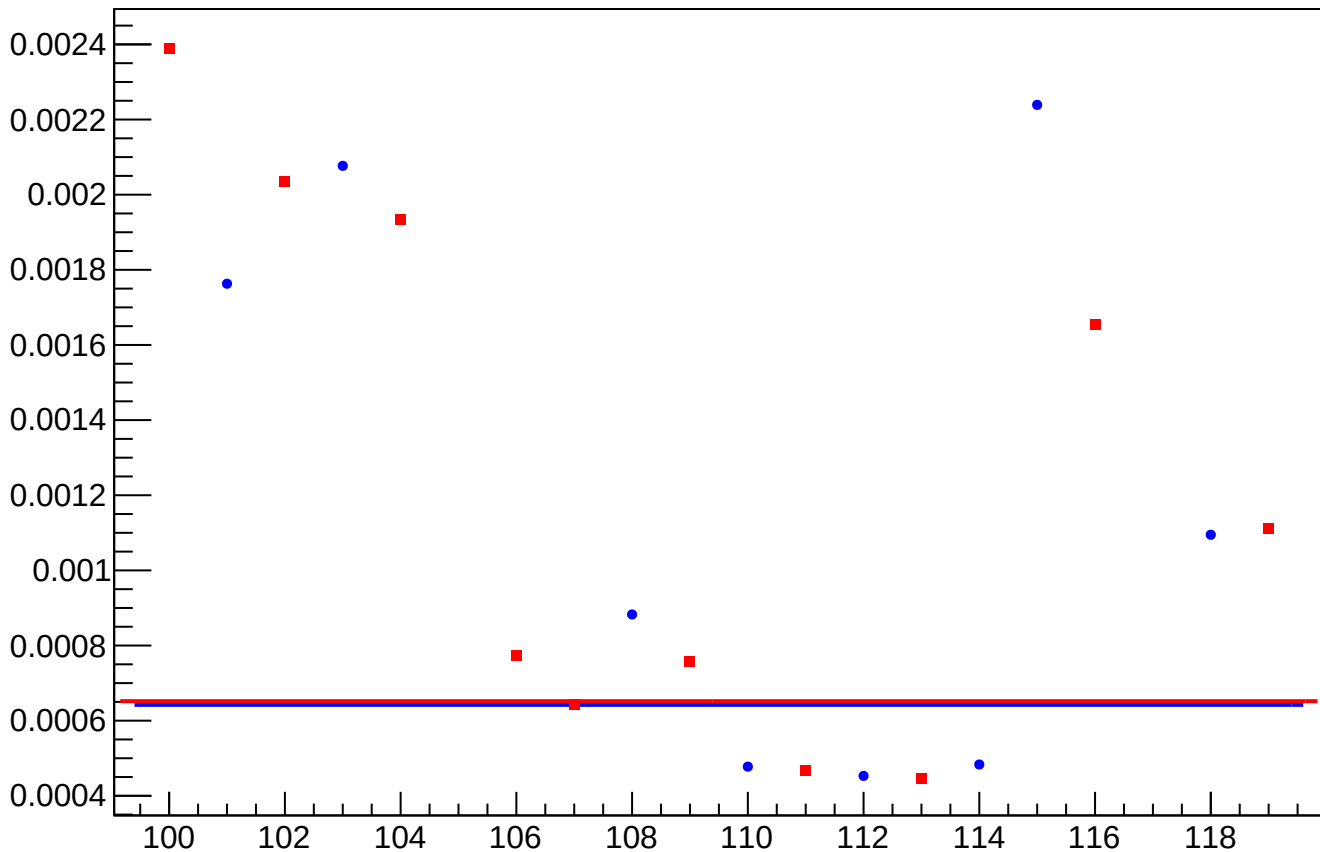
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.0/17

- sign 0.000 $\pm$ 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  $\chi^2/\text{NDF}$ : 1782995.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1884328.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

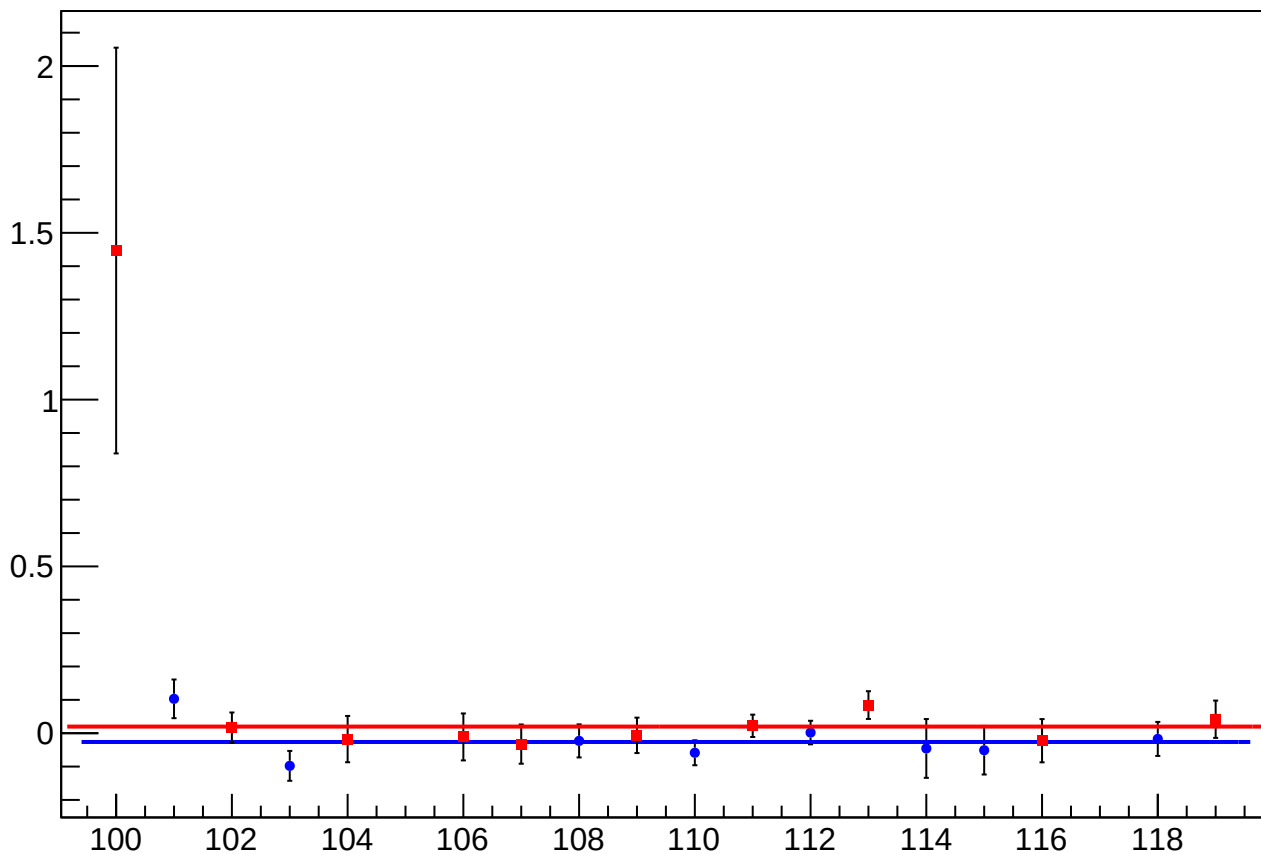
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3667946.6/17

- 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: -0.026 $\pm$ 0.017  $\chi^2$ /NDF: 9.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.020 $\pm$ 0.017  $\chi^2$ /NDF: 10.0/9

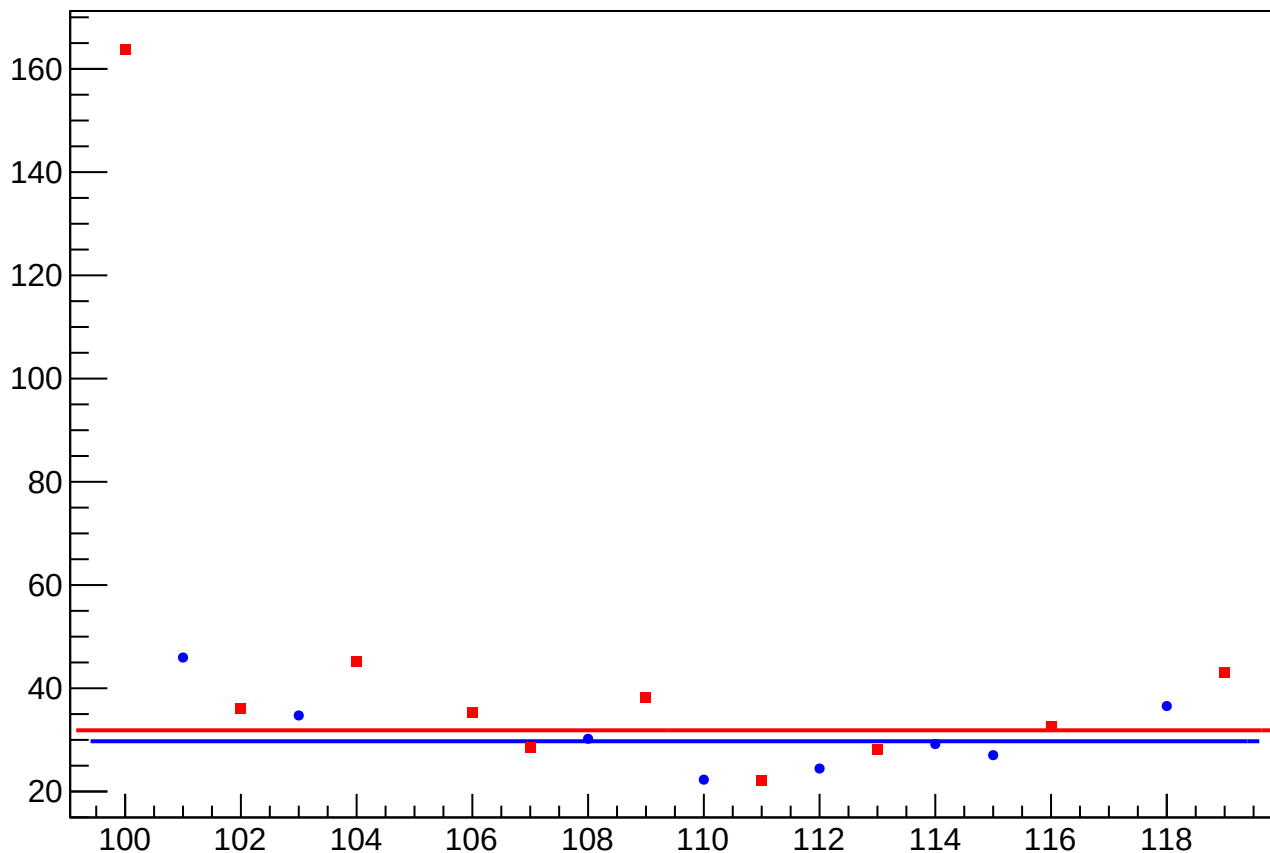
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.012  $\chi^2$ /NDF: 22.9/17

- 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: 29.735+/-0.012  $\chi^2/\text{NDF}$ : 344461.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.854+/-0.012  $\chi^2/\text{NDF}$ : 490542.3/9

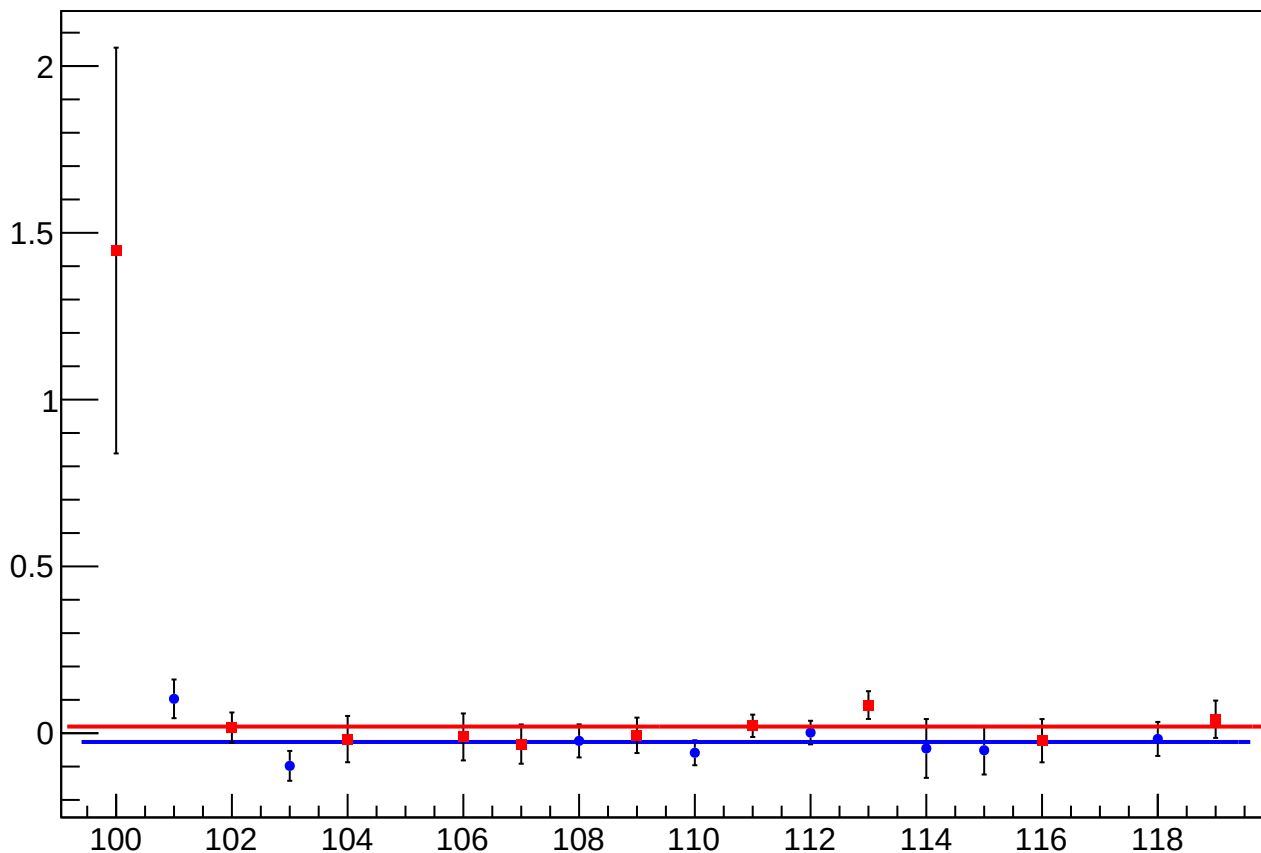
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.816+/-0.008  $\chi^2/\text{NDF}$ : 850697.7/17

- 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:  $-0.026 \pm 0.017$   $\chi^2/\text{NDF}$ : 9.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.020 \pm 0.017$   $\chi^2/\text{NDF}$ : 10.0/9

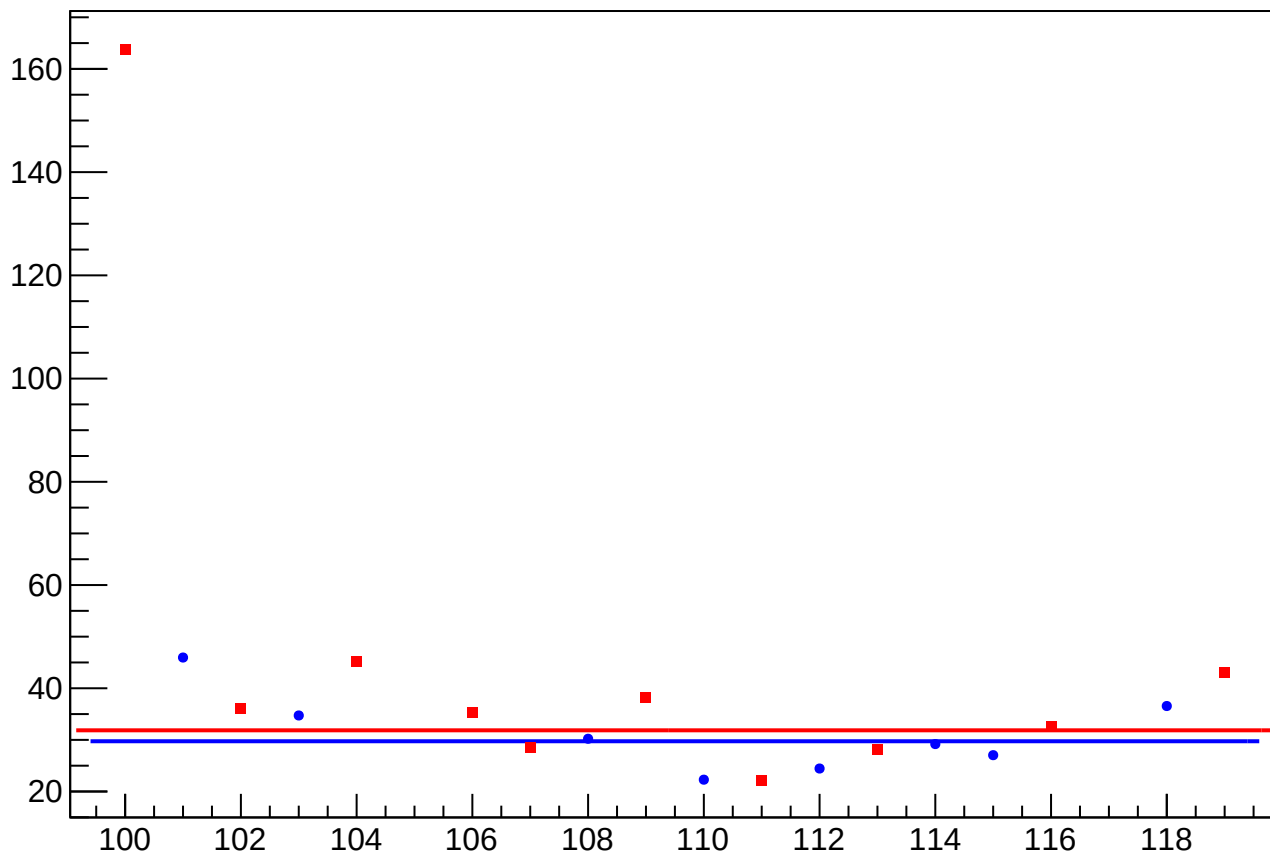
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.003 \pm 0.012$   $\chi^2/\text{NDF}$ : 22.9/17

- 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: 29.735+/-0.012  $\chi^2/\text{NDF}$ : 344461.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.854+/-0.012  $\chi^2/\text{NDF}$ : 490542.3/9

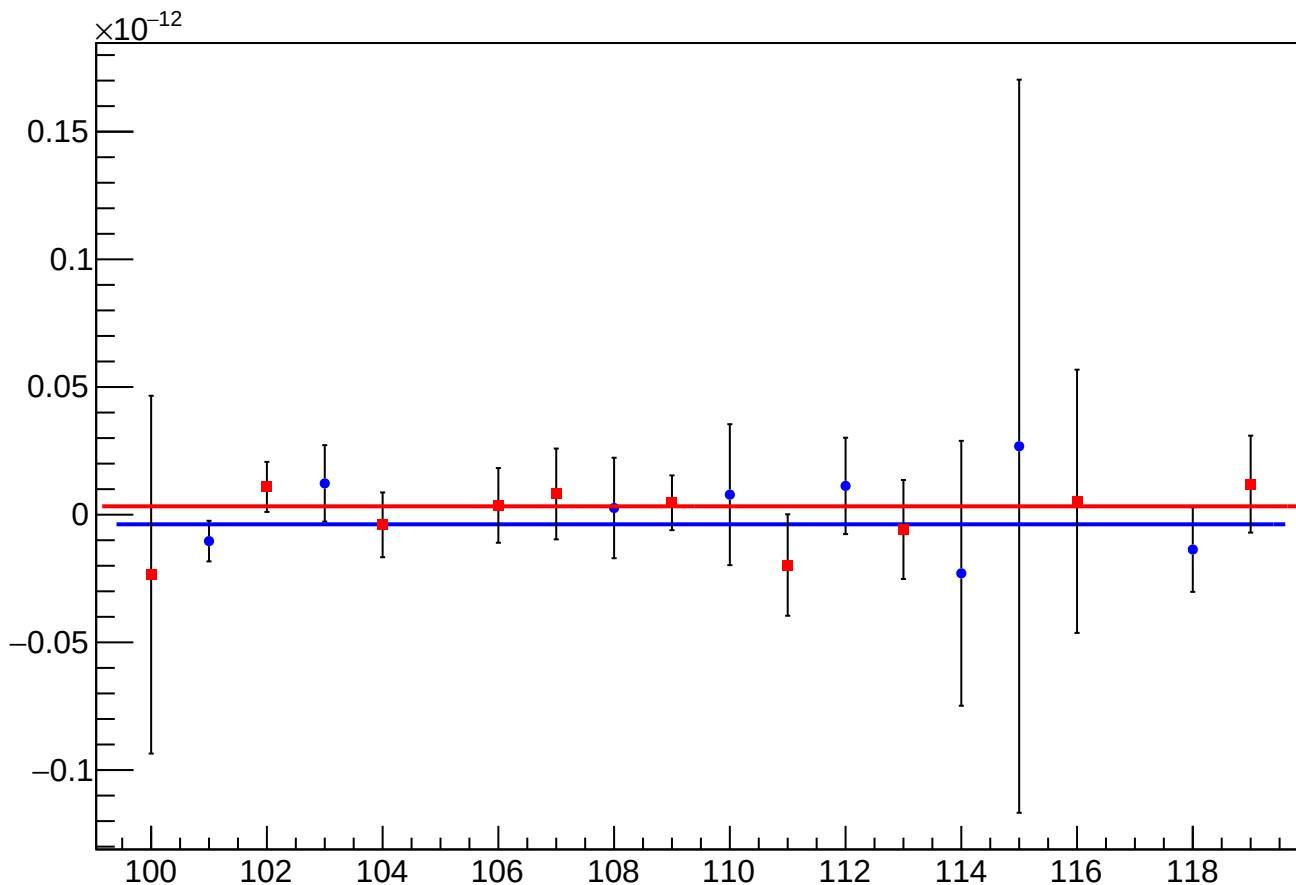
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.816+/-0.008  $\chi^2/\text{NDF}$ : 850697.7/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 3.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.9/9

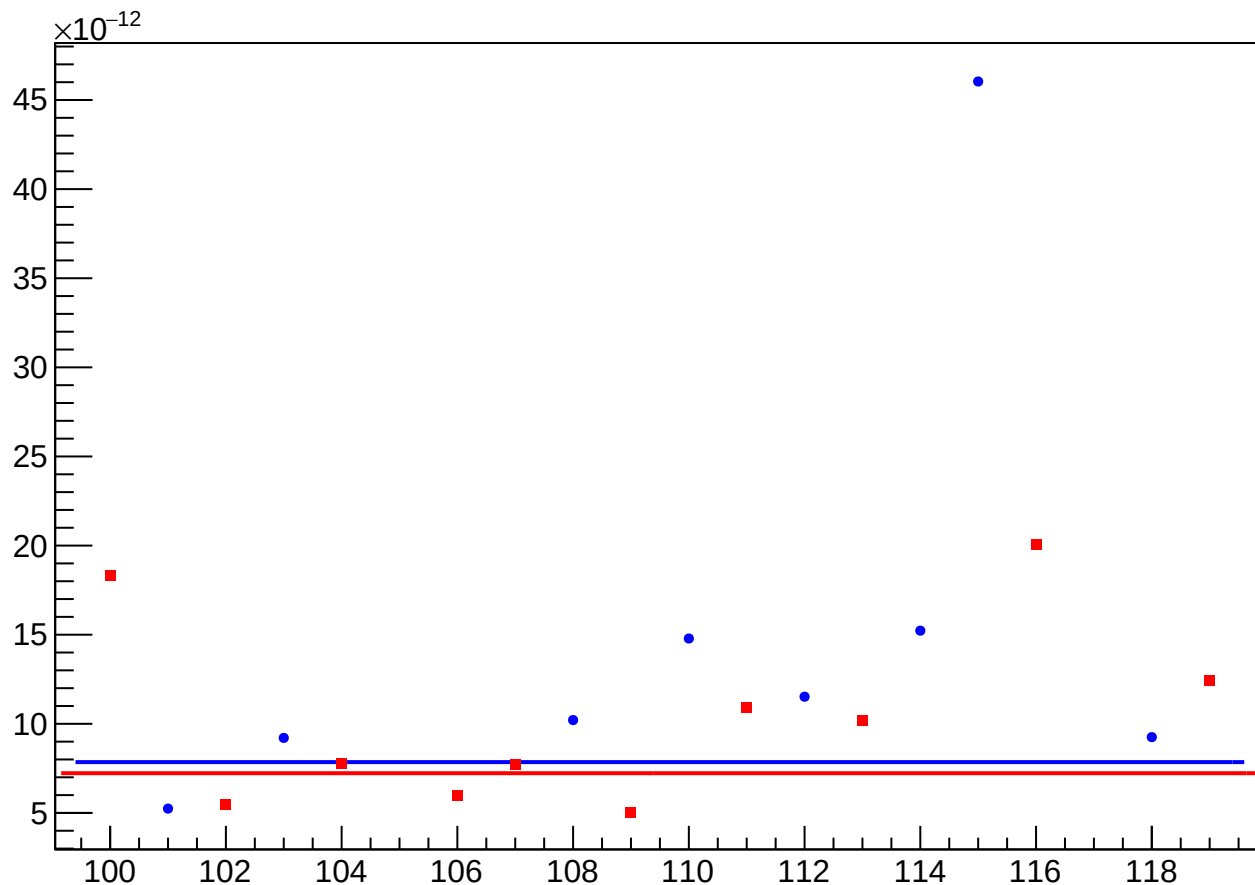
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 658562.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 608272.6/9

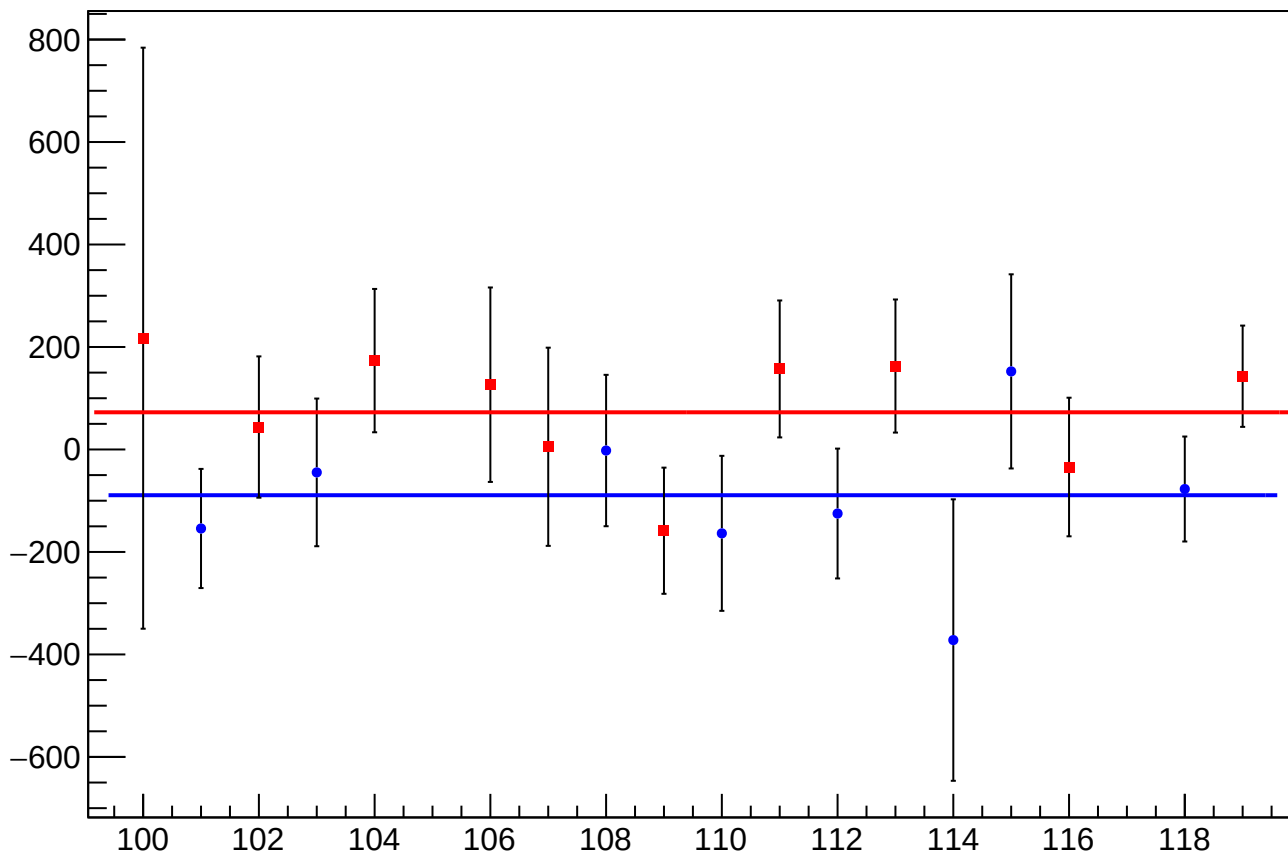
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1280634.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In:  $-89.274 \pm 49.363$   $\chi^2/\text{NDF}$ : 3.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $72.553 \pm 44.735$   $\chi^2/\text{NDF}$ : 6.4/9

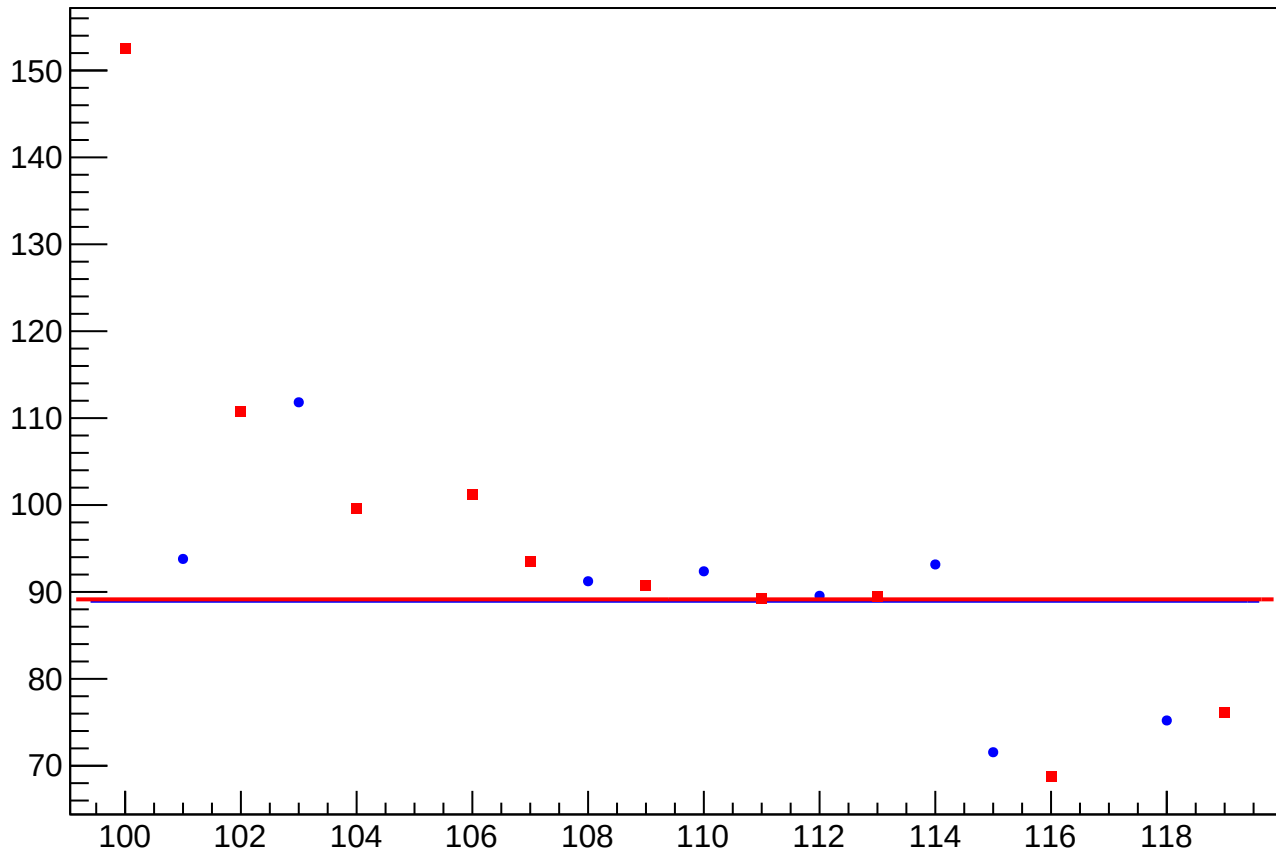
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.420 \pm 33.148$   $\chi^2/\text{NDF}$ : 16.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 88.985+/-0.035  $\chi^2/\text{NDF}$ : 108696.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 89.147+/-0.032  $\chi^2/\text{NDF}$ : 175079.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

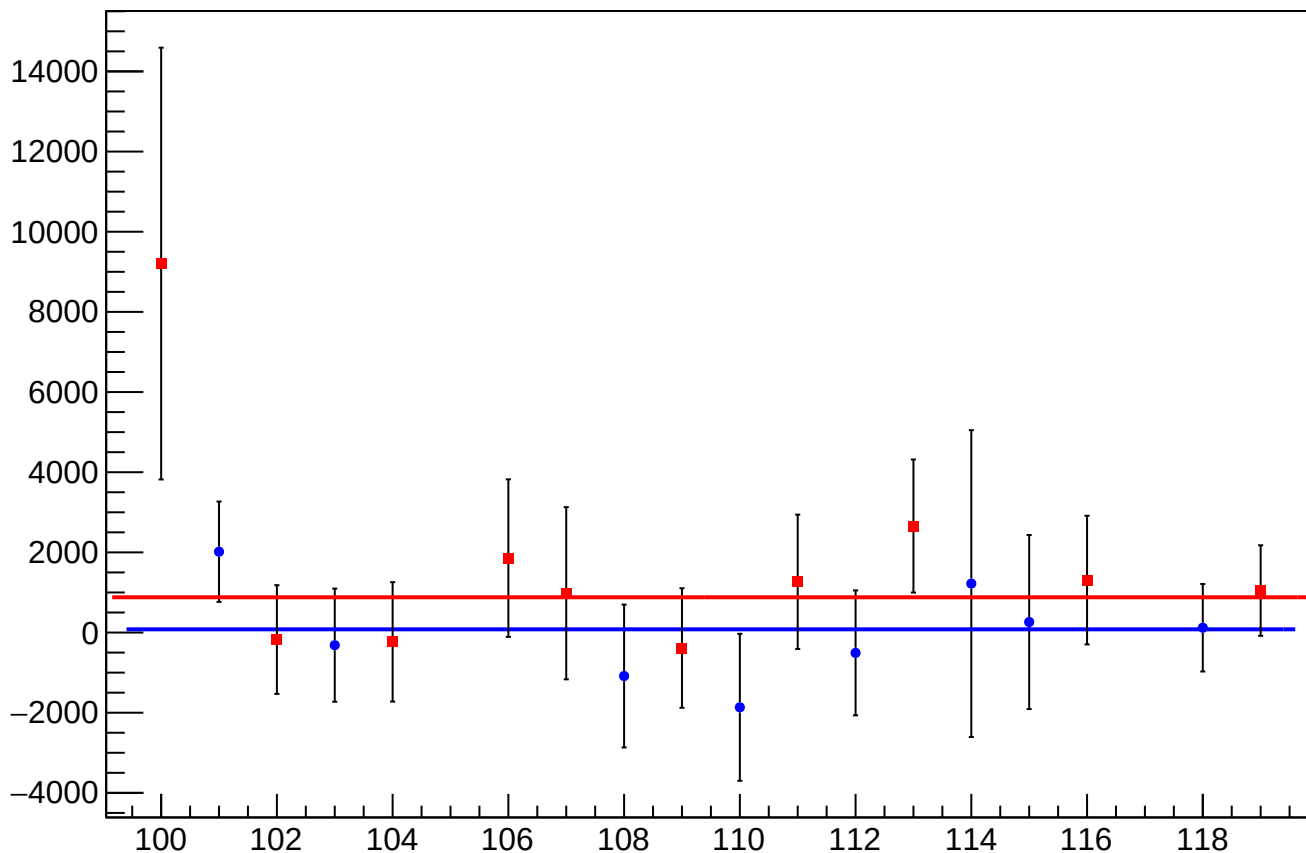
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 89.074+/-0.023  $\chi^2/\text{NDF}$ : 283787.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_26\_dd\_reg\_correction\_mean vs Slug



Right In: 80.409+/-551.854  $\chi^2/\text{NDF}$ : 4.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 879.724+/-509.968  $\chi^2/\text{NDF}$ : 5.8/9

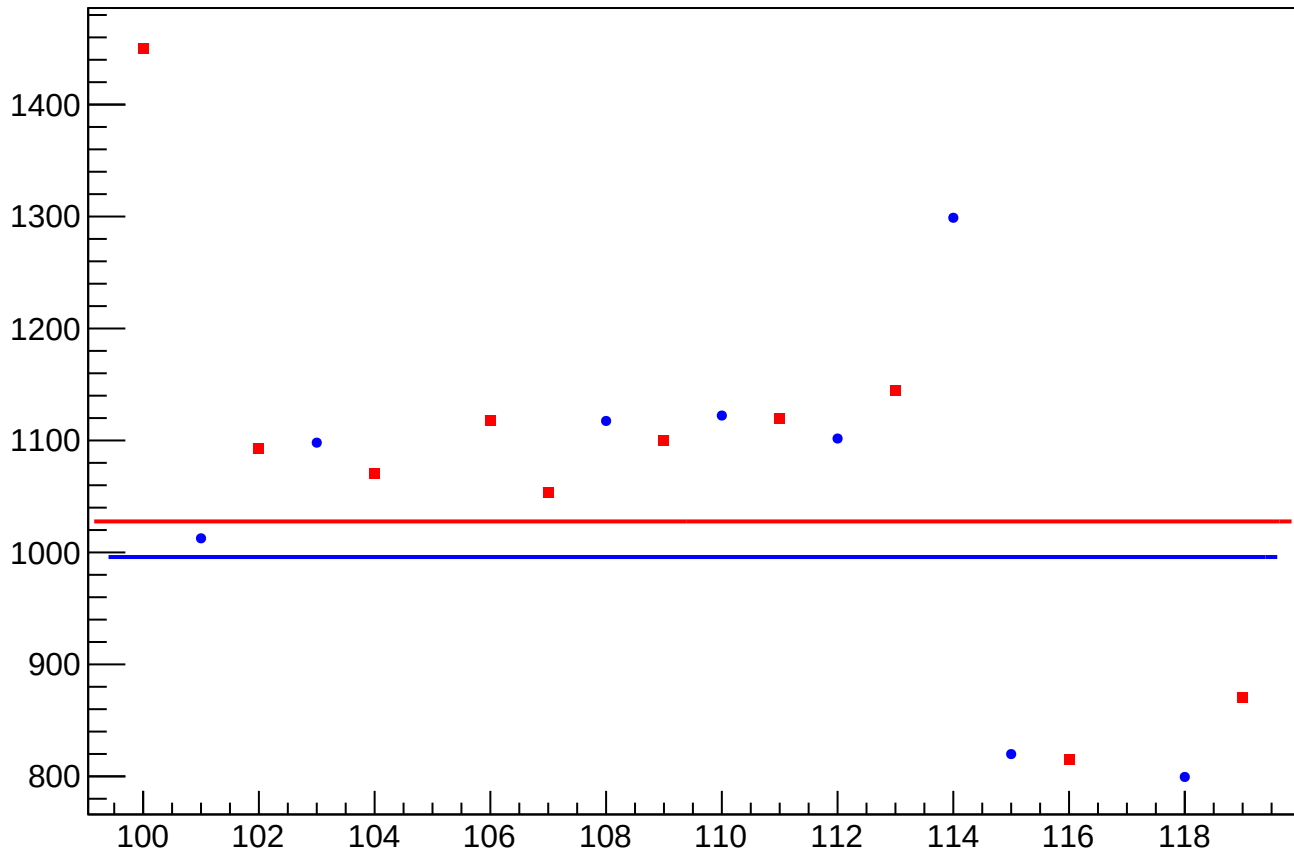
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 511.549+/-374.535  $\chi^2/\text{NDF}$ : 11.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_26\_dd\_reg\_correction\_rms vs Slug



Right In: 995.891+/-0.390  $\chi^2/\text{NDF}$ : 129230.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1027.680+/-0.361  $\chi^2/\text{NDF}$ : 117267.9/9

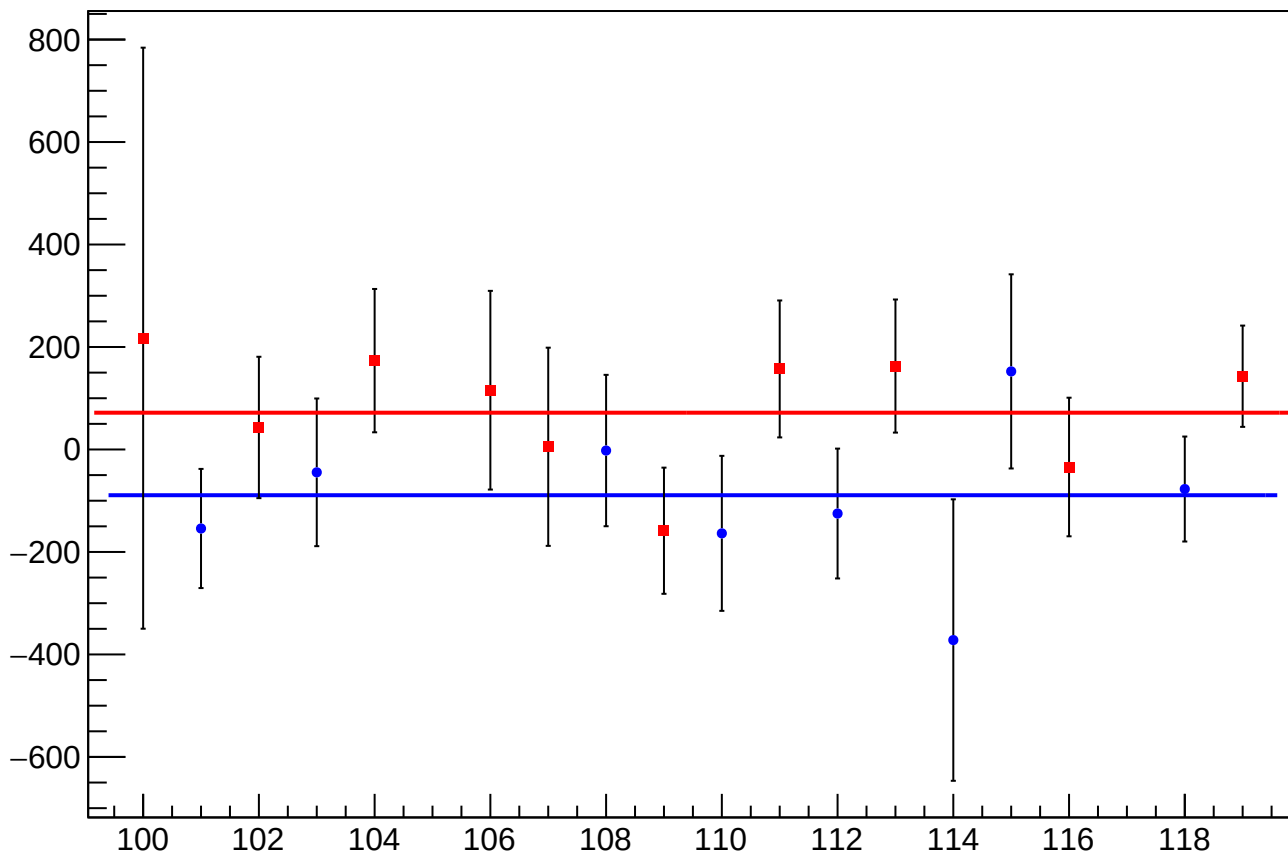
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1013.037+/-0.265  $\chi^2/\text{NDF}$ : 250077.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In:  $-89.262 \pm 49.363$   $\chi^2/\text{NDF}$ : 3.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $71.774 \pm 44.791$   $\chi^2/\text{NDF}$ : 6.3/9

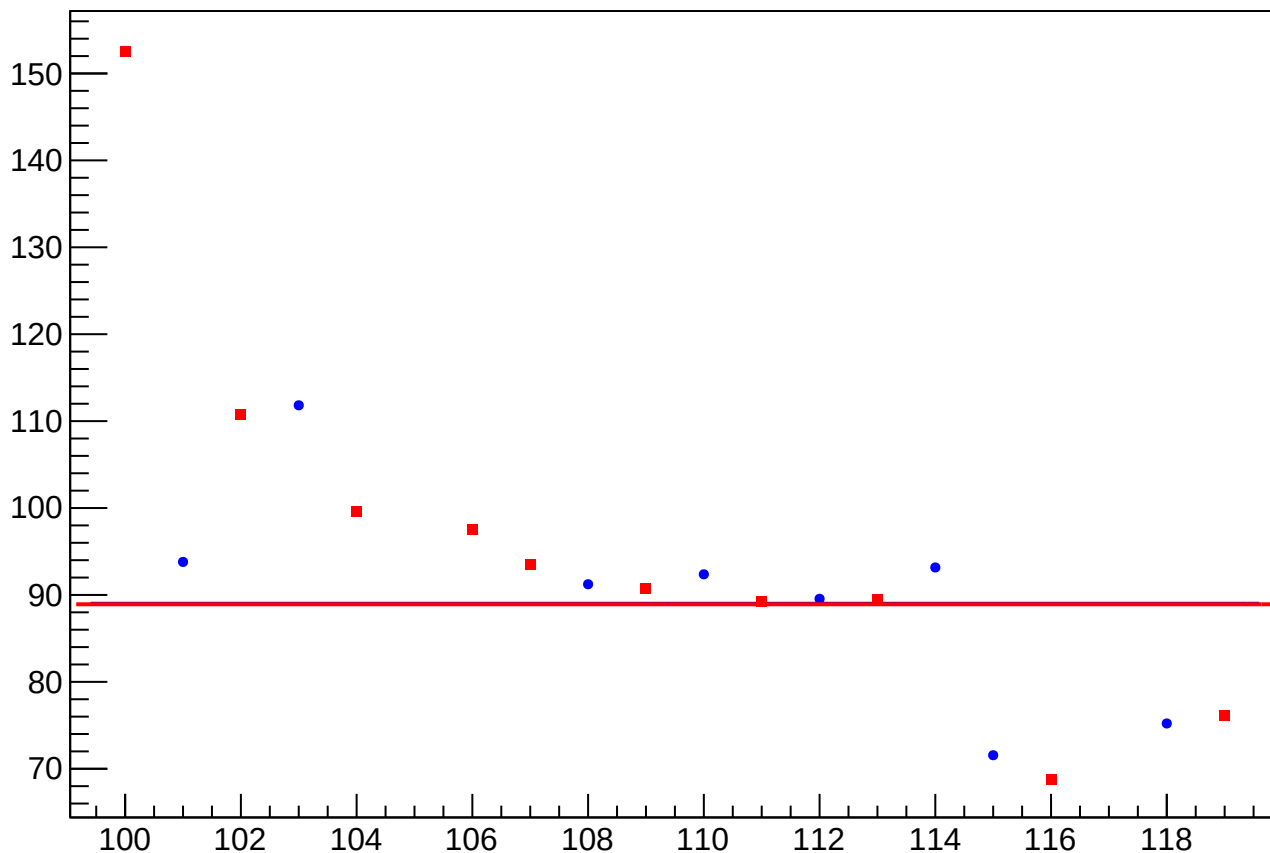
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.941 \pm 33.171$   $\chi^2/\text{NDF}$ : 16.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 88.985 $\pm$ 0.035  $\chi^2$ /NDF: 108697.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 88.926 $\pm$ 0.032  $\chi^2$ /NDF: 170890.7/9

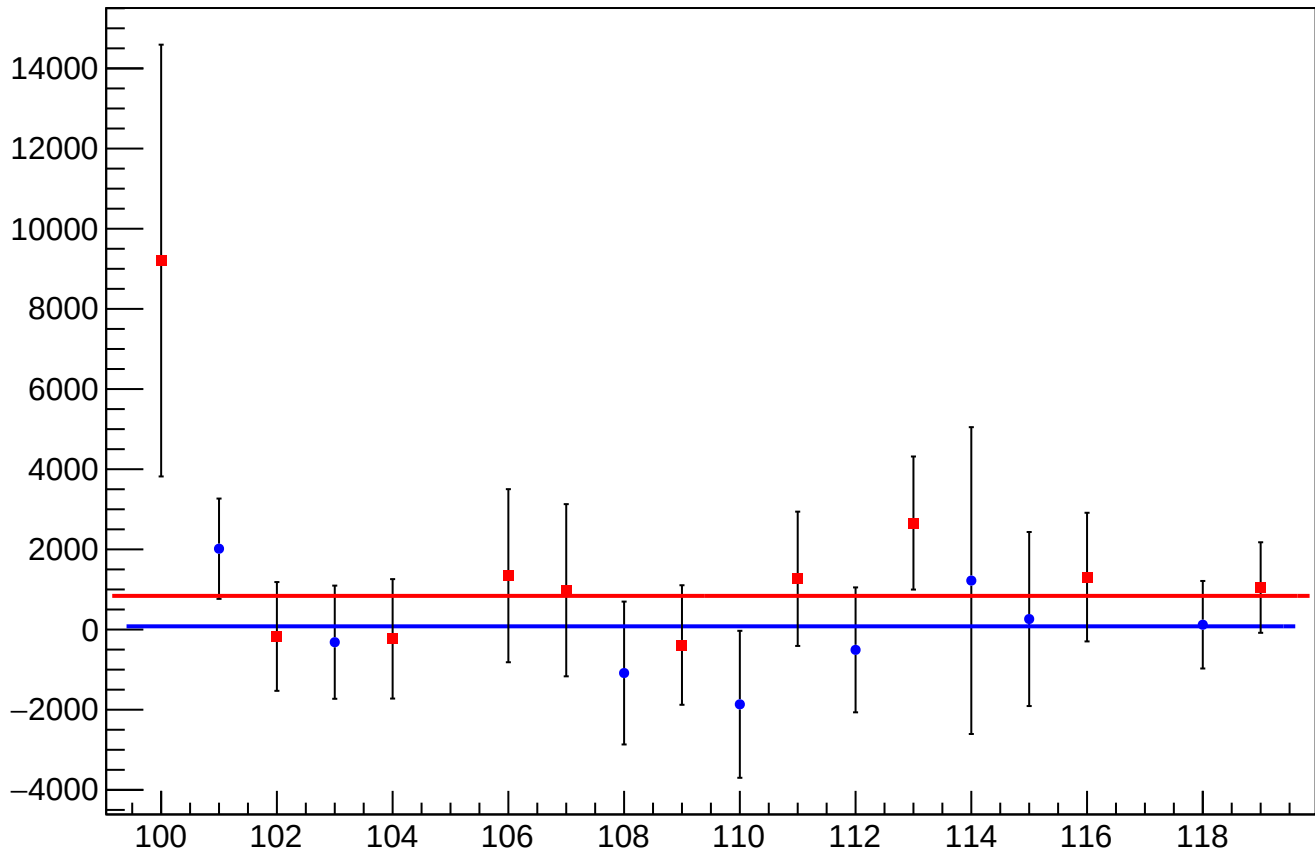
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 88.952 $\pm$ 0.023  $\chi^2$ /NDF: 279590.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_cor\_correction\_mean vs Slug



Right In: 80.339+/-551.859  $\chi^2/\text{NDF}$ : 4.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 839.914+/-512.981  $\chi^2/\text{NDF}$ : 5.6/9

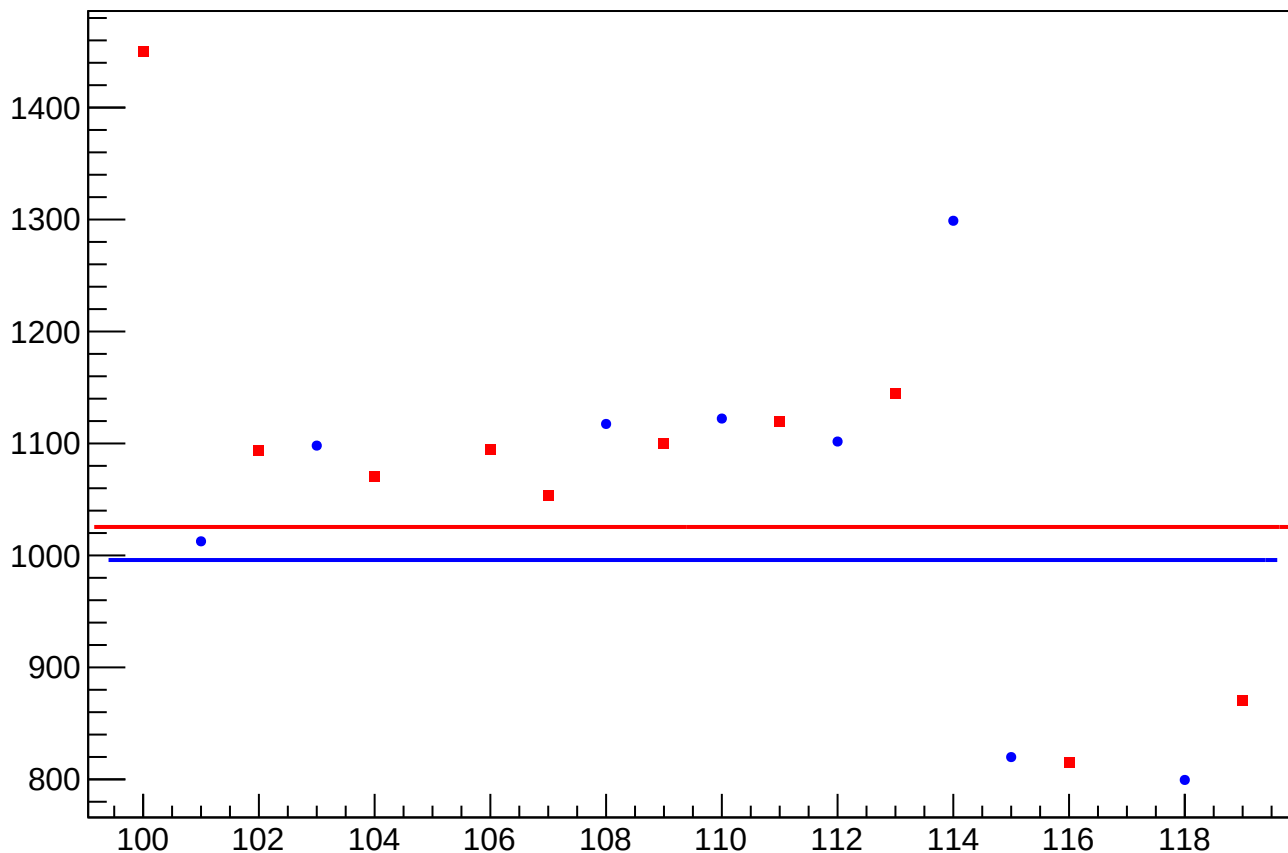
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 487.822+/-375.726  $\chi^2/\text{NDF}$ : 10.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_26\_dd\_cor\_correction\_rms vs Slug



Right In: 995.898 $\pm$ 0.390  $\chi^2$ /NDF: 129241.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1025.424 $\pm$ 0.363  $\chi^2$ /NDF: 115057.7/9

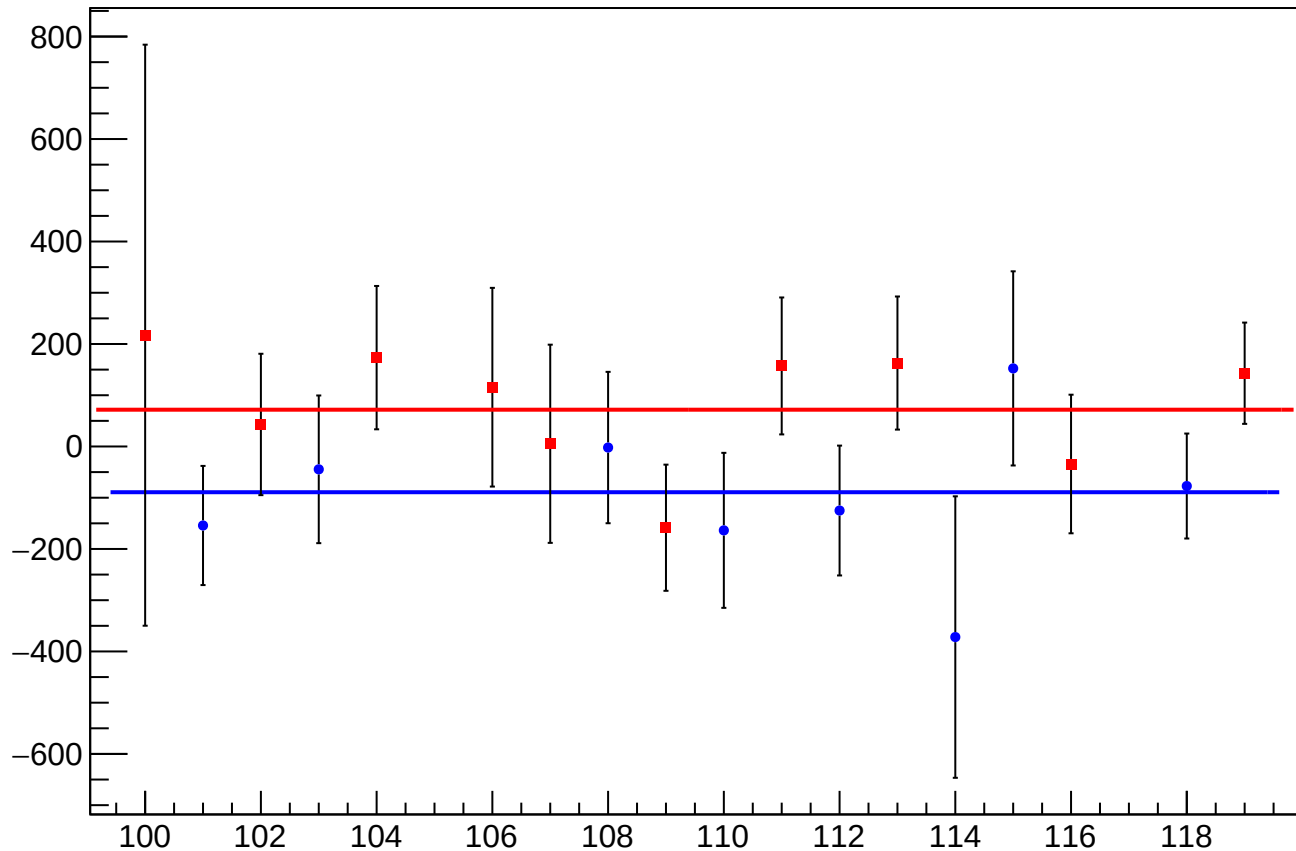
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1011.737 $\pm$ 0.266  $\chi^2$ /NDF: 247370.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In:  $-89.262 \pm 49.363$   $\chi^2/\text{NDF}$ : 3.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $71.774 \pm 44.791$   $\chi^2/\text{NDF}$ : 6.3/9

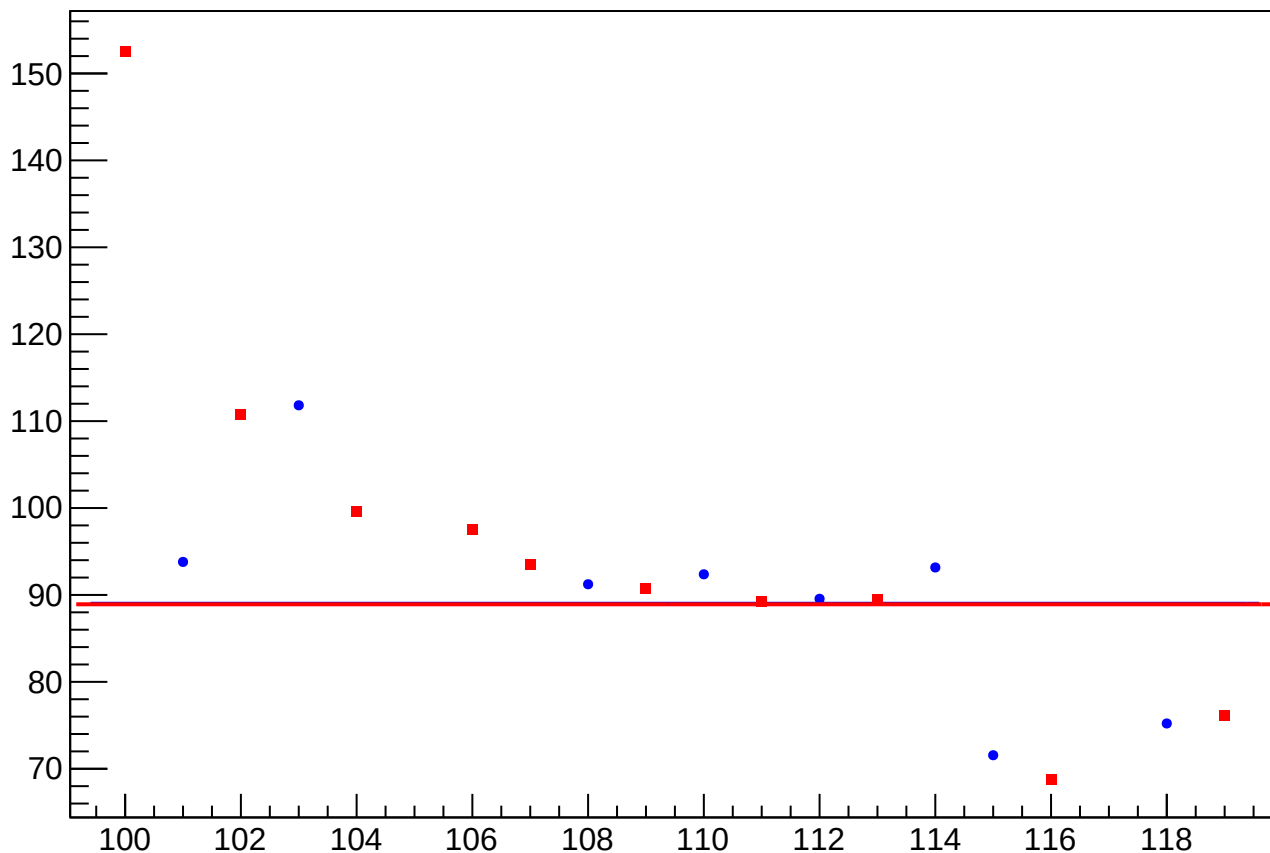
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.941 \pm 33.171$   $\chi^2/\text{NDF}$ : 16.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 88.985 $\pm$ 0.035  $\chi^2$ /NDF: 108697.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 88.926 $\pm$ 0.032  $\chi^2$ /NDF: 170890.7/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

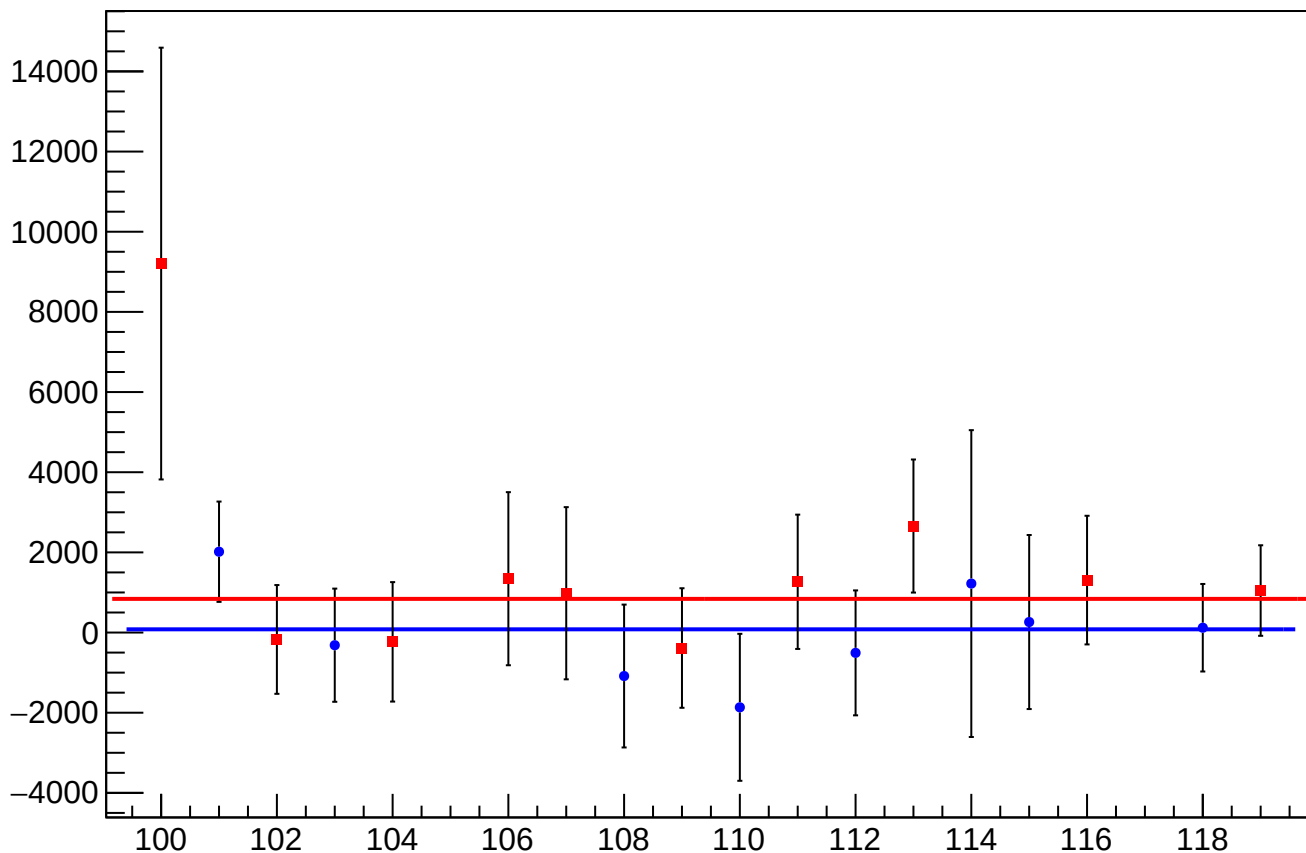
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 88.952 $\pm$ 0.023  $\chi^2$ /NDF: 279590.0/17

- 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: 80.339+/-551.859  $\chi^2/\text{NDF}$ : 4.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 839.914+/-512.981  $\chi^2/\text{NDF}$ : 5.6/9

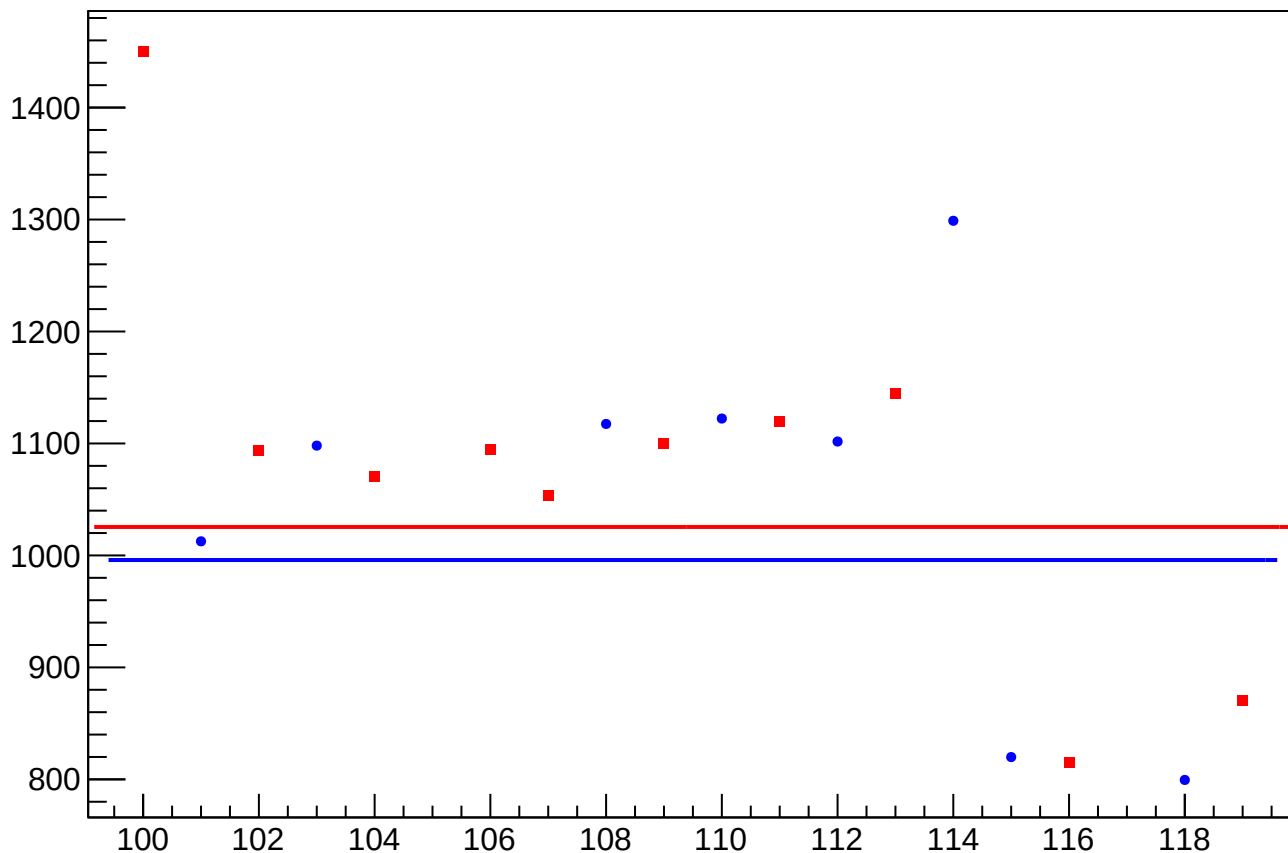
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 487.822+/-375.726  $\chi^2/\text{NDF}$ : 10.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 995.898 $\pm$ 0.390  $\chi^2$ /NDF: 129241.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1025.424 $\pm$ 0.363  $\chi^2$ /NDF: 115057.7/9

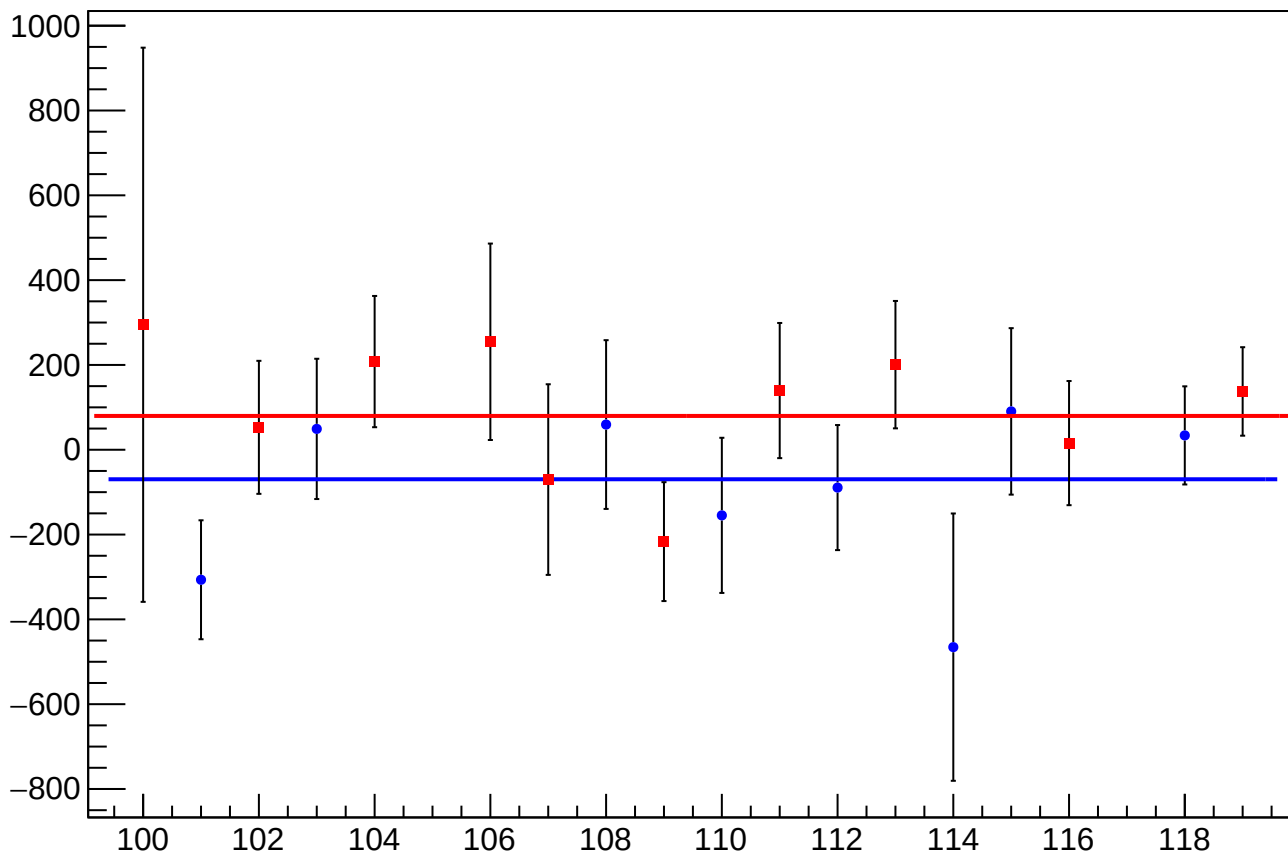
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1011.737 $\pm$ 0.266  $\chi^2$ /NDF: 247370.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In:  $-69.599 \pm 57.811$   $\chi^2/\text{NDF}$ : 7.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $79.745 \pm 50.234$   $\chi^2/\text{NDF}$ : 7.6/9

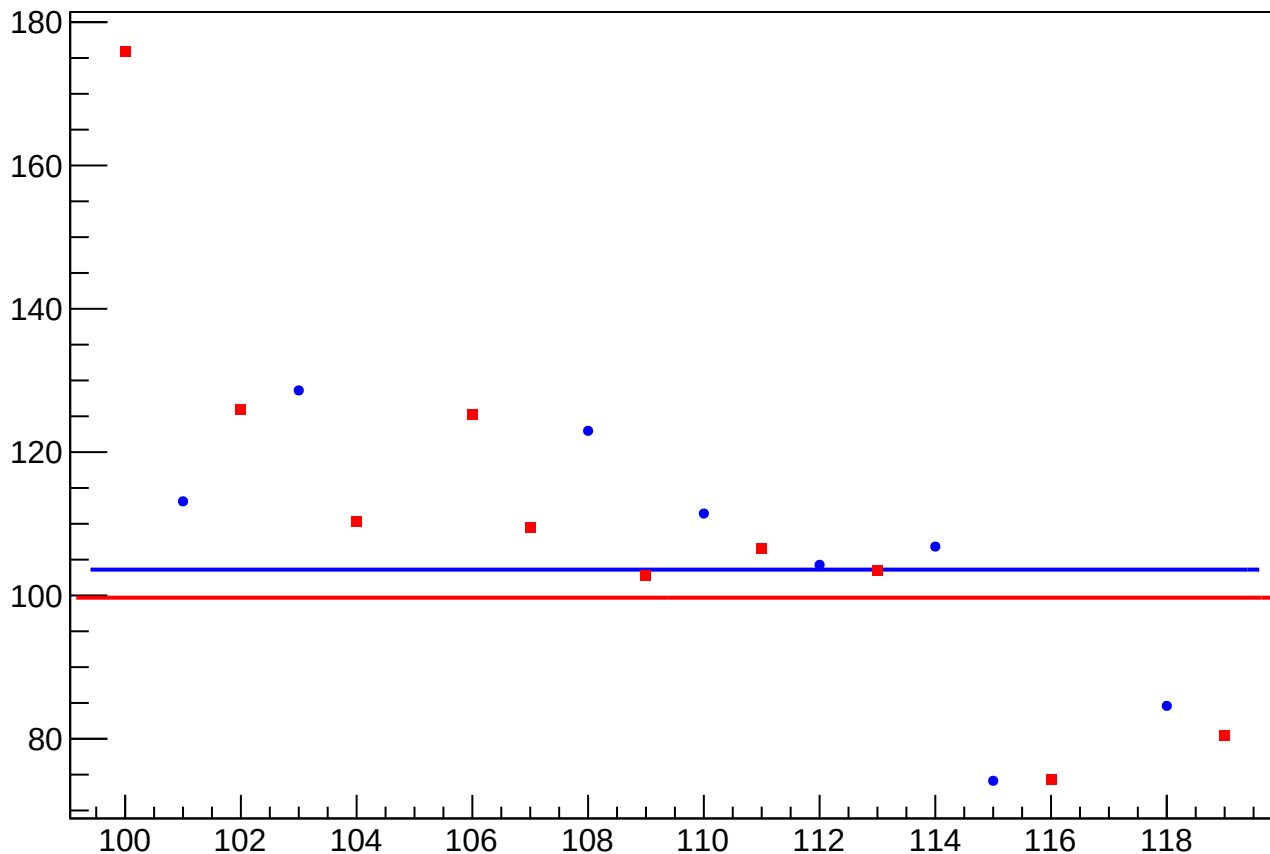
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $15.495 \pm 37.919$   $\chi^2/\text{NDF}$ : 18.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 103.606 $\pm$ 0.041  $\chi^2$ /NDF: 176862.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 99.691 $\pm$ 0.036  $\chi^2$ /NDF: 254861.1/9

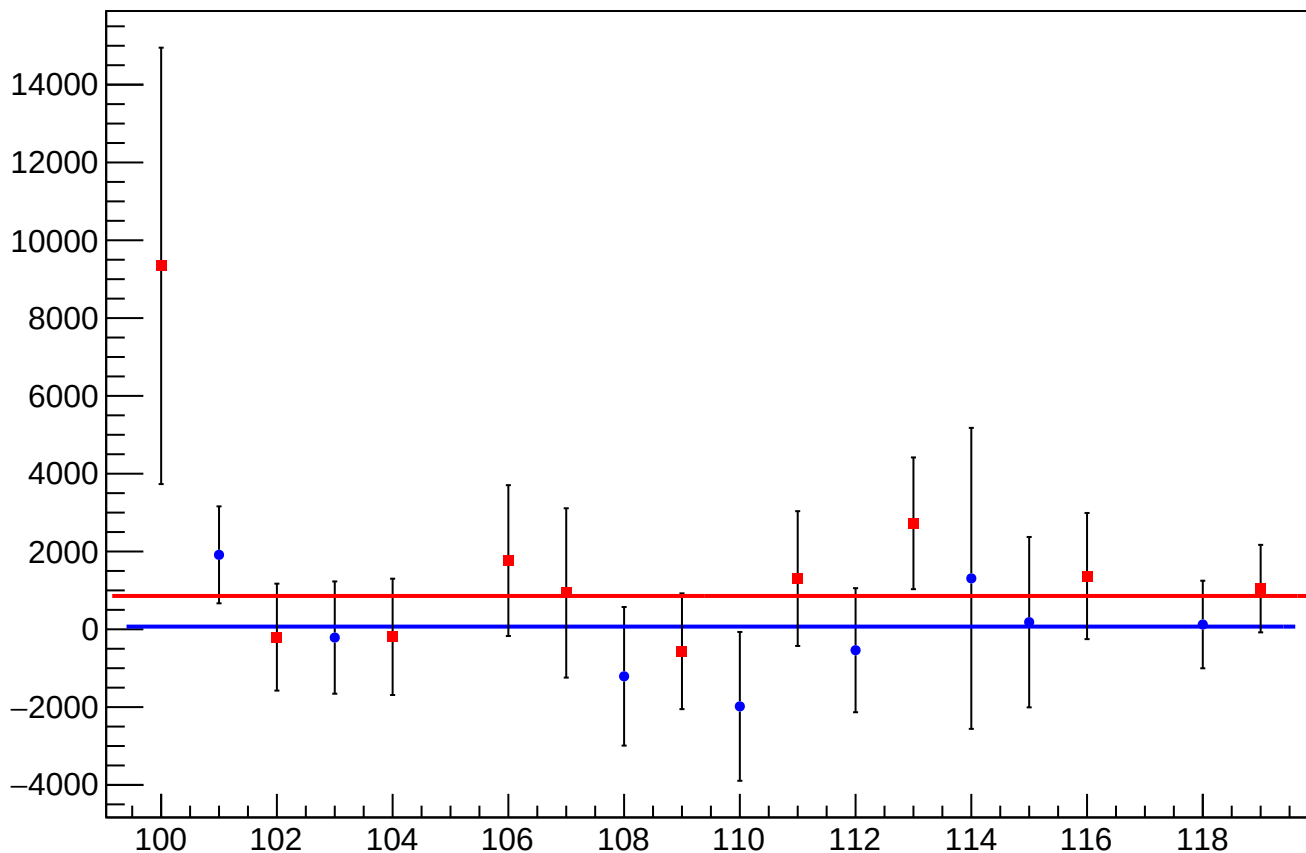
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 101.375 $\pm$ 0.027  $\chi^2$ /NDF: 436950.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_dit\_correction\_mean vs Slug



Right In: 69.597+/-561.633  $\chi^2/\text{NDF}$ : 4.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 857.230+/-513.644  $\chi^2/\text{NDF}$ : 5.9/9

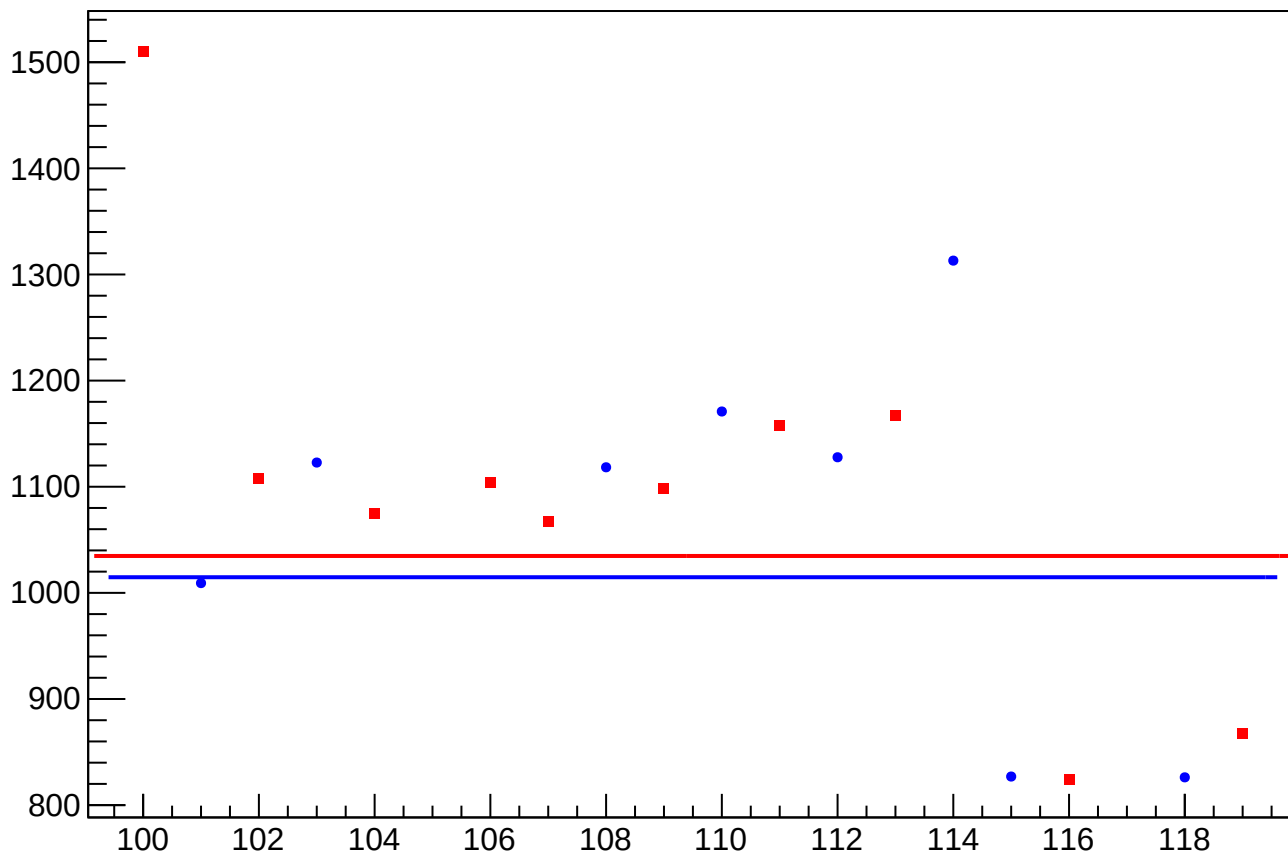
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 498.495+/-379.033  $\chi^2/\text{NDF}$ : 11.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_26\_dd\_dit\_correction\_rms vs Slug



Right In: 1014.736 $\pm$ 0.397  $\chi^2$ /NDF: 124113.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1034.765 $\pm$ 0.363  $\chi^2$ /NDF: 128551.9/9

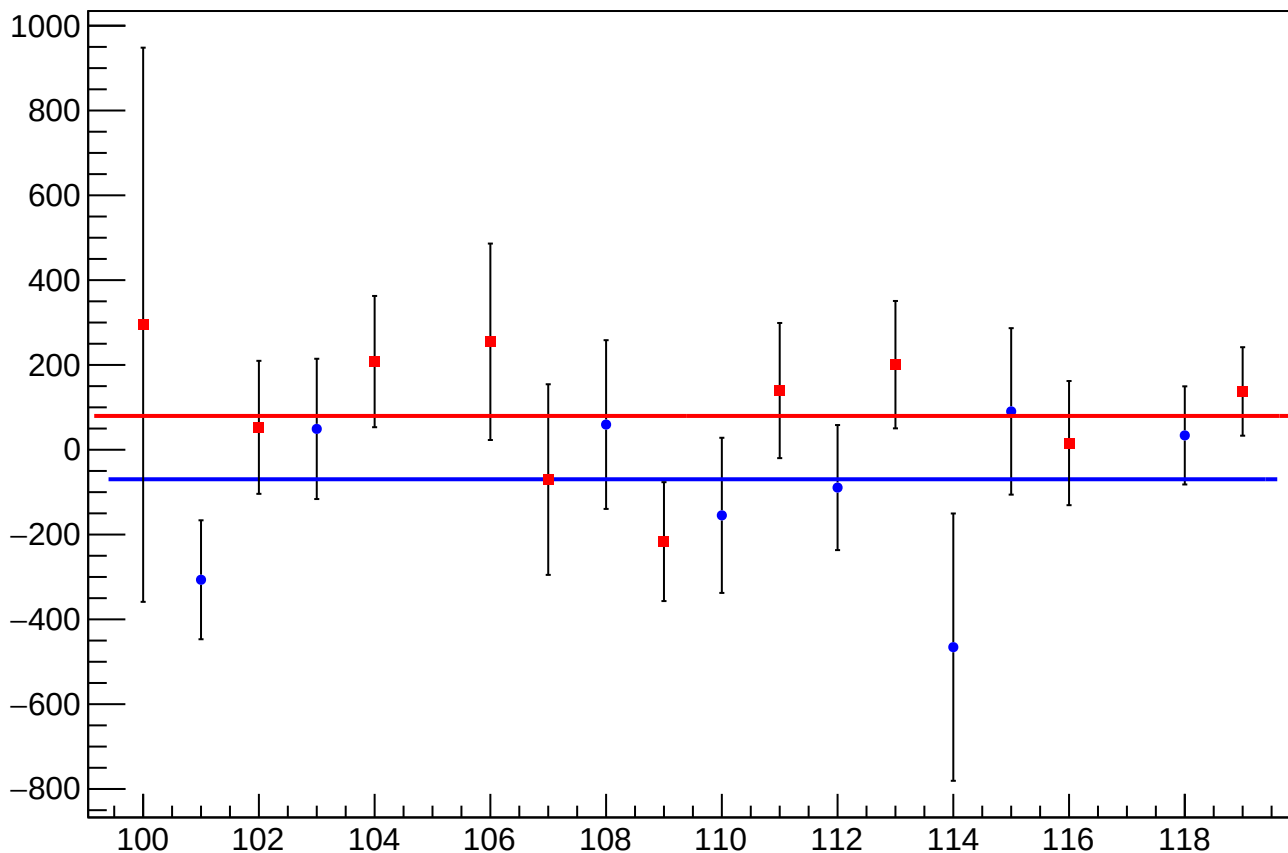
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1025.643 $\pm$ 0.268  $\chi^2$ /NDF: 254050.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: -69.598 $\pm$ 57.811  $\chi^2$ /NDF: 7.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 79.742 $\pm$ 50.234  $\chi^2$ /NDF: 7.6/9

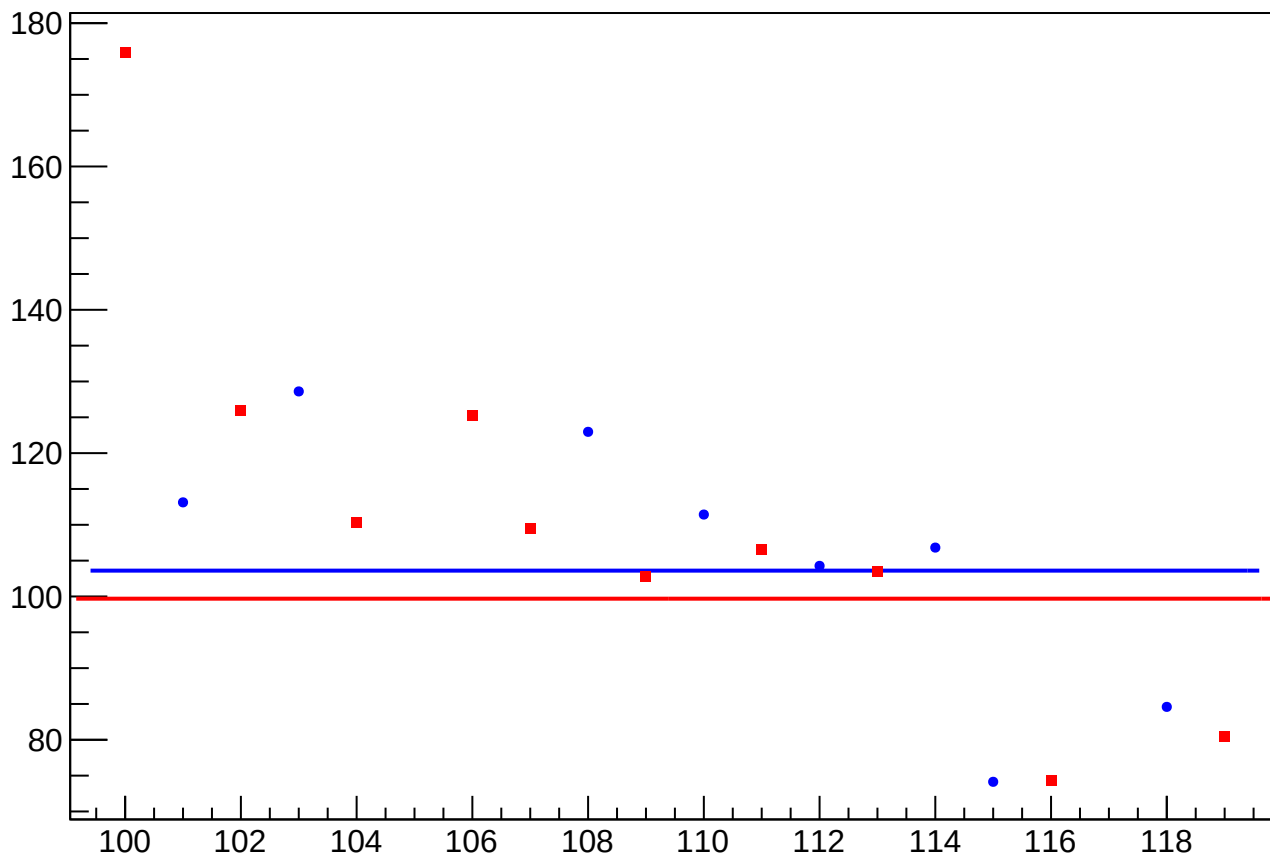
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 15.493 $\pm$ 37.919  $\chi^2$ /NDF: 18.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 103.605 $\pm$ 0.041  $\chi^2$ /NDF: 176856.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 99.690 $\pm$ 0.036  $\chi^2$ /NDF: 254846.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

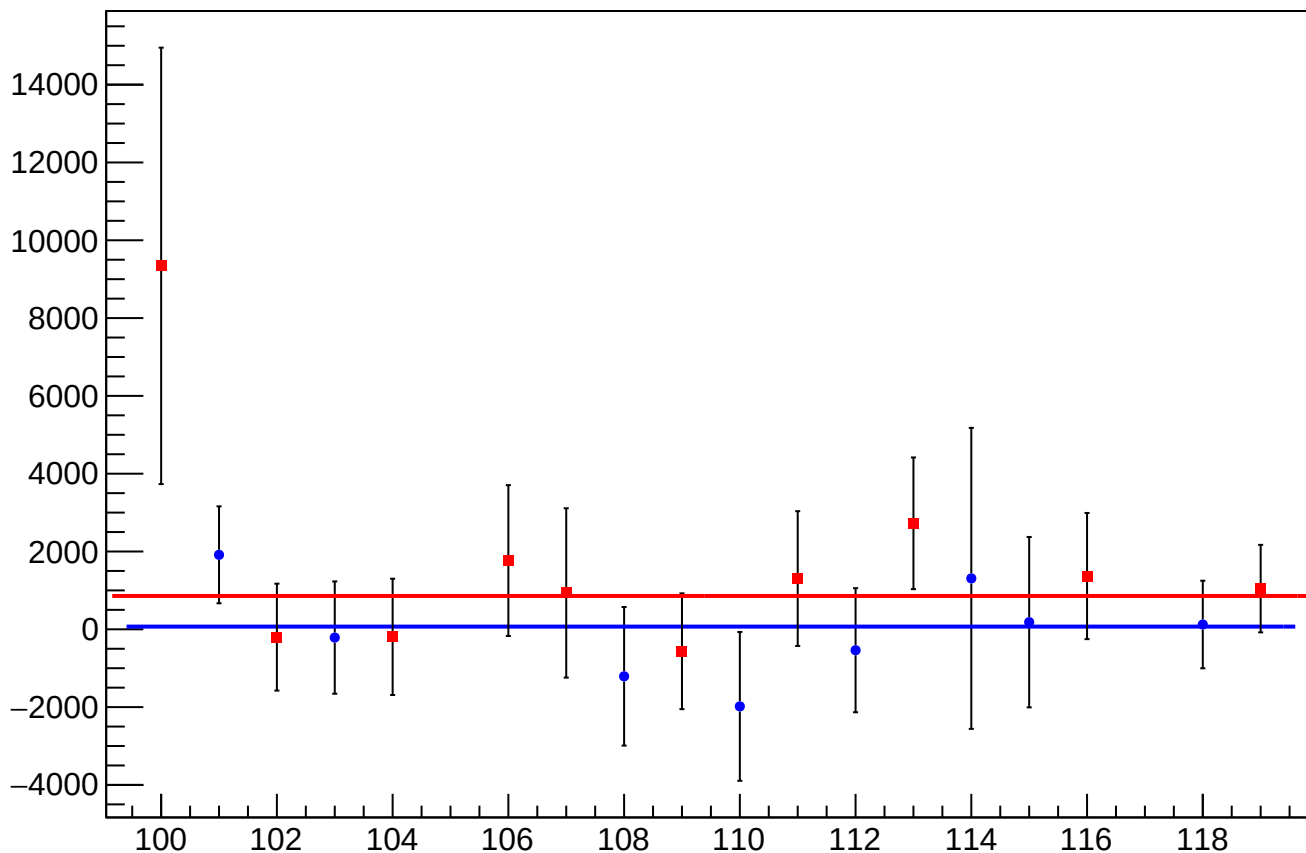
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 101.375 $\pm$ 0.027  $\chi^2$ /NDF: 436928.8/17

- 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: 69.597+/-561.631  $\chi^2$ /NDF: 4.1/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 857.228+/-513.643  $\chi^2$ /NDF: 5.9/9

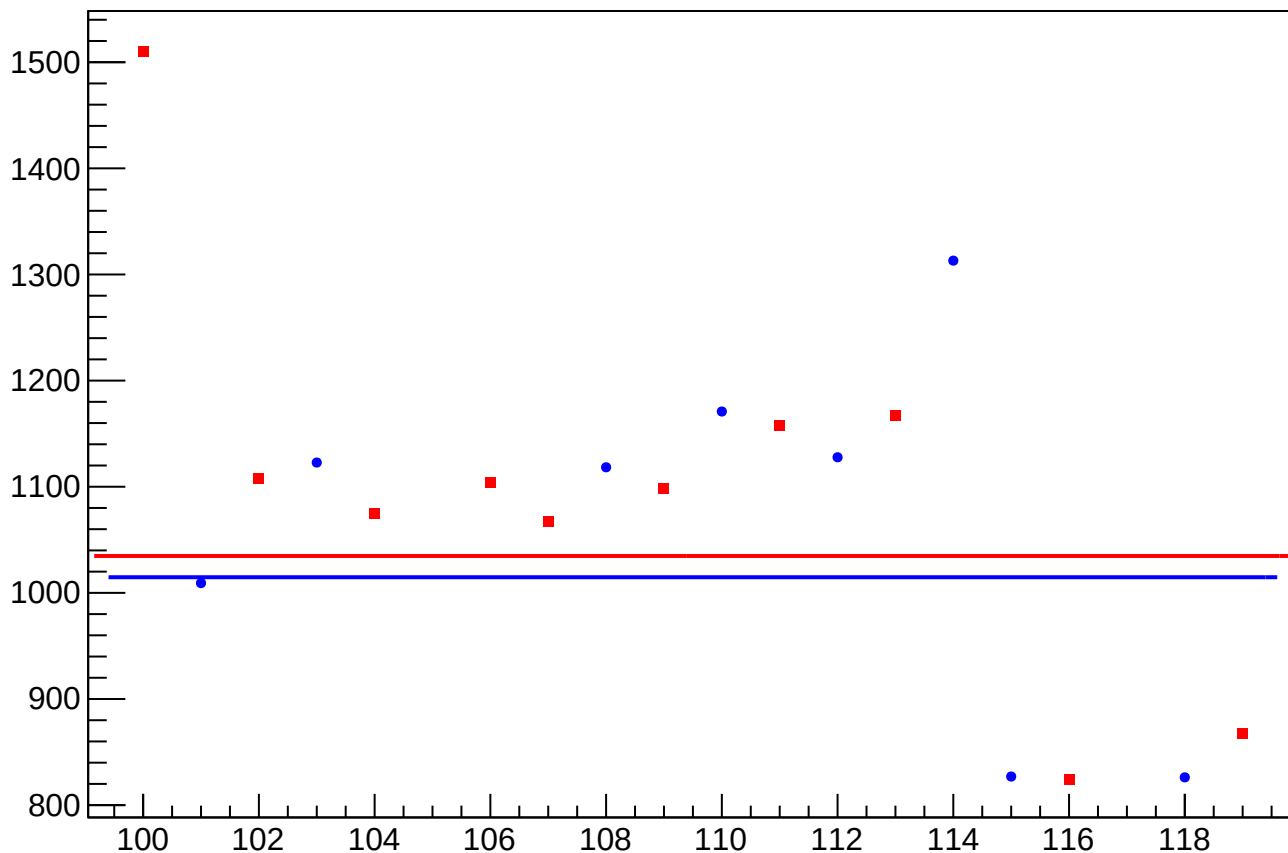
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 498.494+/-379.032  $\chi^2$ /NDF: 11.1/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1014.733+/-0.397  $\chi^2/\text{NDF}$ : 124111.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1034.762+/-0.363  $\chi^2/\text{NDF}$ : 128549.5/9

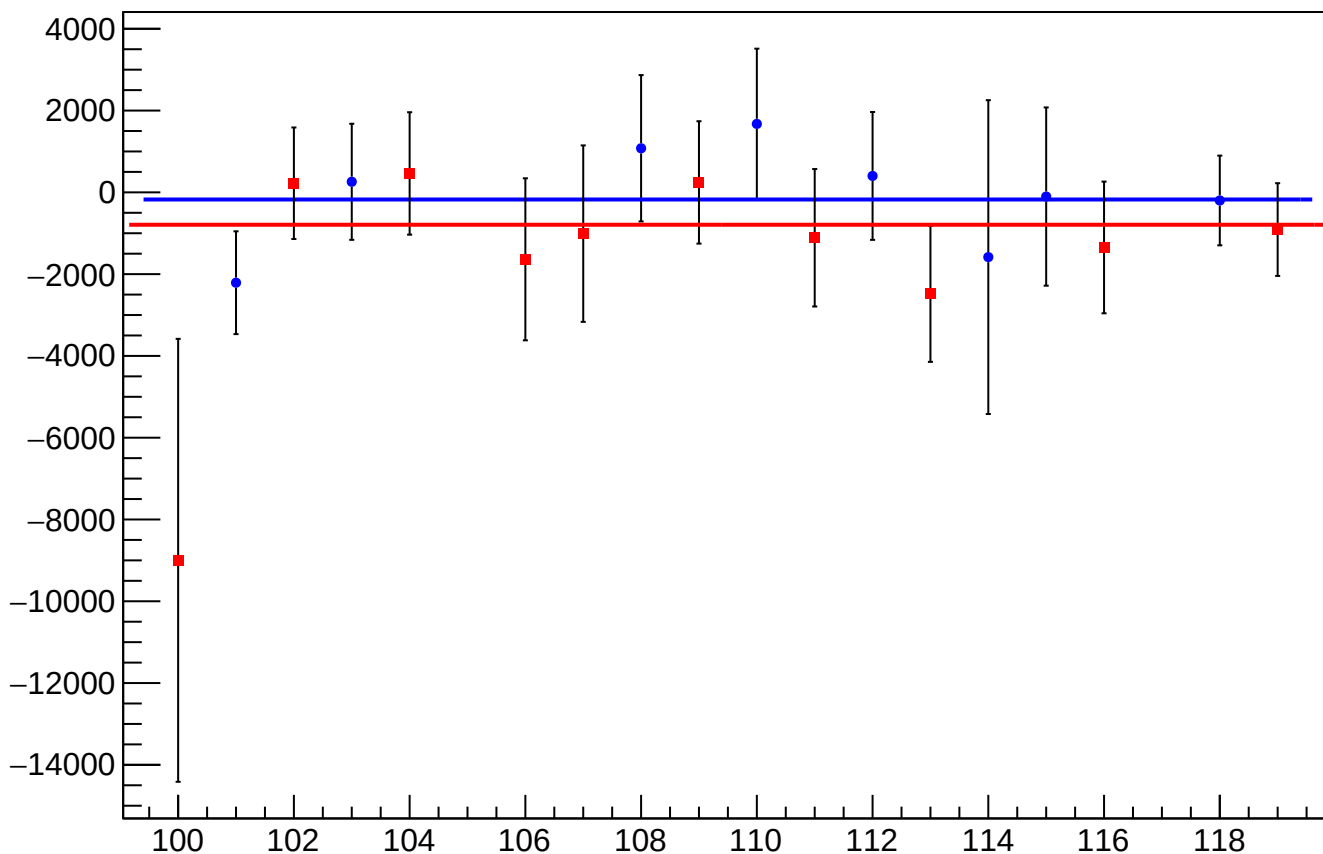
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1025.640+/-0.268  $\chi^2/\text{NDF}$ : 254046.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: -174.825+/-554.215  $\chi^2/\text{NDF}$ : 4.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -792.645+/-512.163  $\chi^2/\text{NDF}$ : 5.4/9

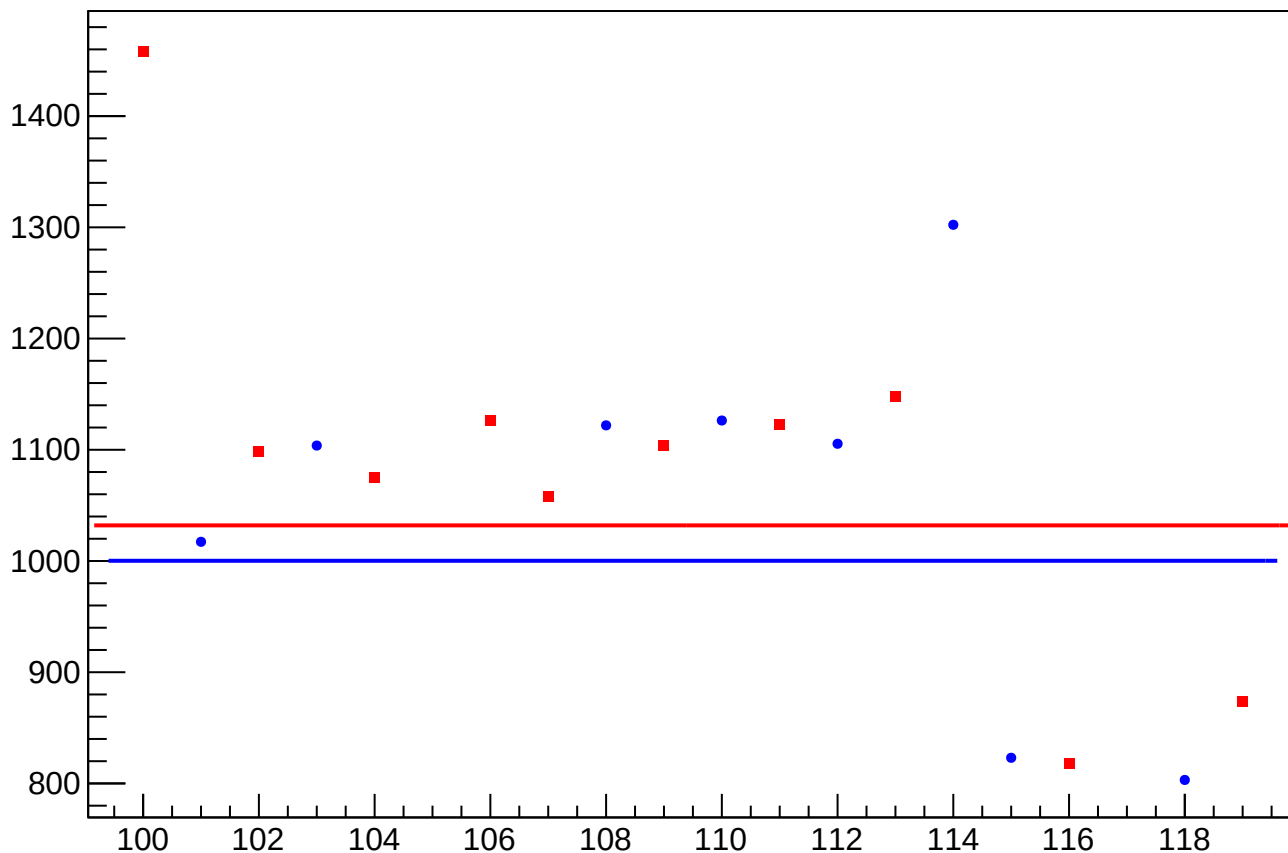
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -508.060+/-376.143  $\chi^2/\text{NDF}$ : 10.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 1000.197+/-0.392  $\chi^2/\text{NDF}$ : 128879.4/7

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

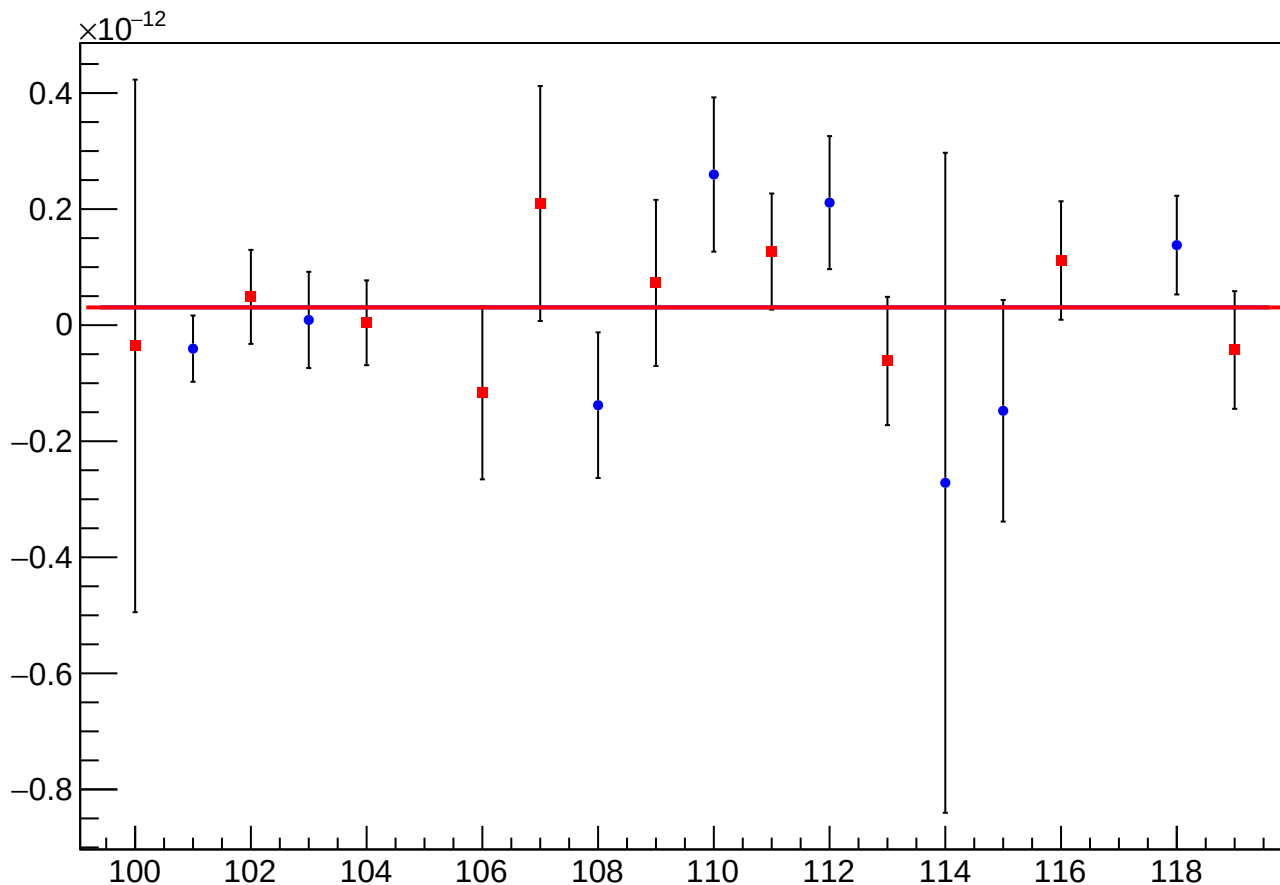
Right Out: 1032.027+/-0.362  $\chi^2/\text{NDF}$ : 117790.8/9

All: 1017.365+/-0.266  $\chi^2/\text{NDF}$ : 250228.4/17

- 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\_sam\_15\_26\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.8/9

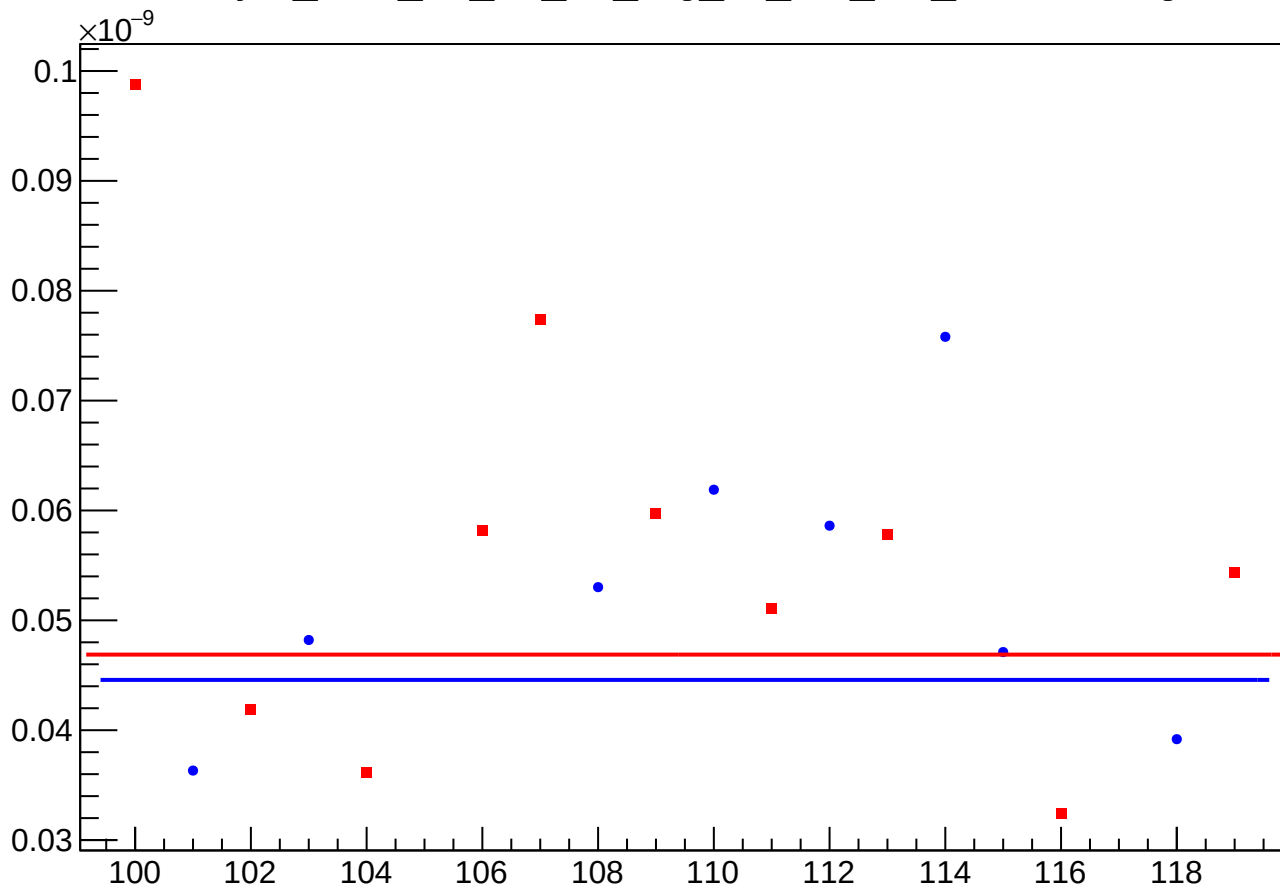
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.4/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 133022.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 223085.1/9

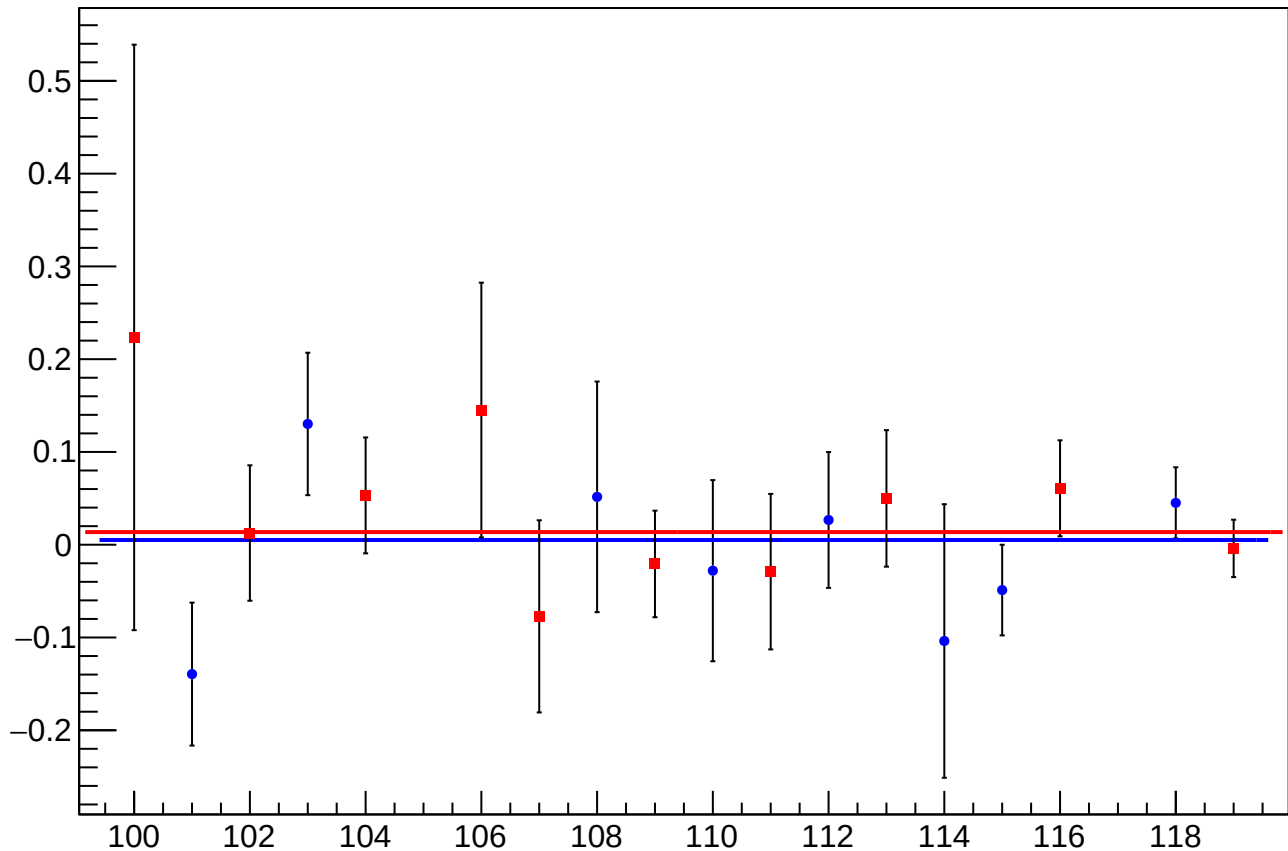
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 360495.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_26\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.005 $\pm$ 0.023  $\chi^2$ /NDF: 9.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.014 $\pm$ 0.019  $\chi^2$ /NDF: 4.5/9

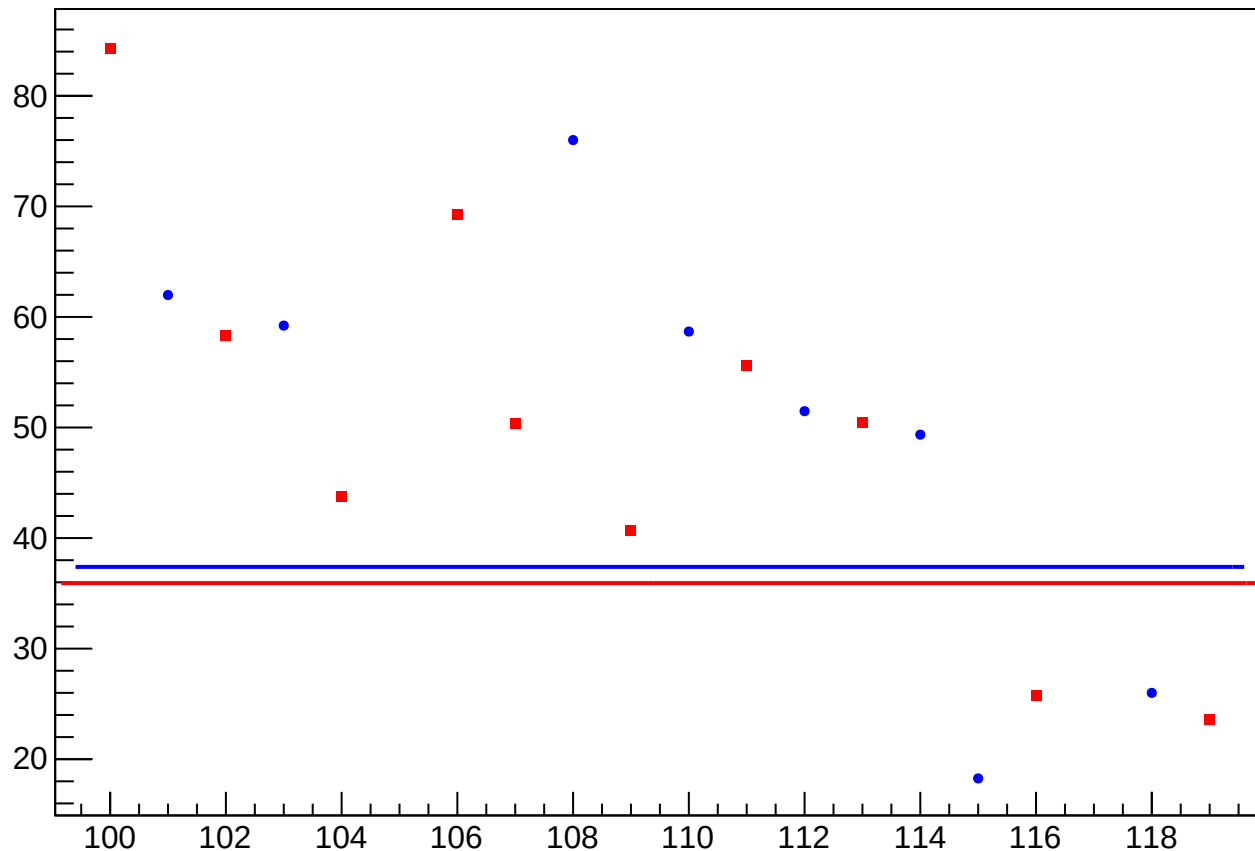
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.015  $\chi^2$ /NDF: 14.0/17

- 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: 37.394+/-0.016  $\chi^2/\text{NDF}$ : 1223379.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.929+/-0.014  $\chi^2/\text{NDF}$ : 1021146.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

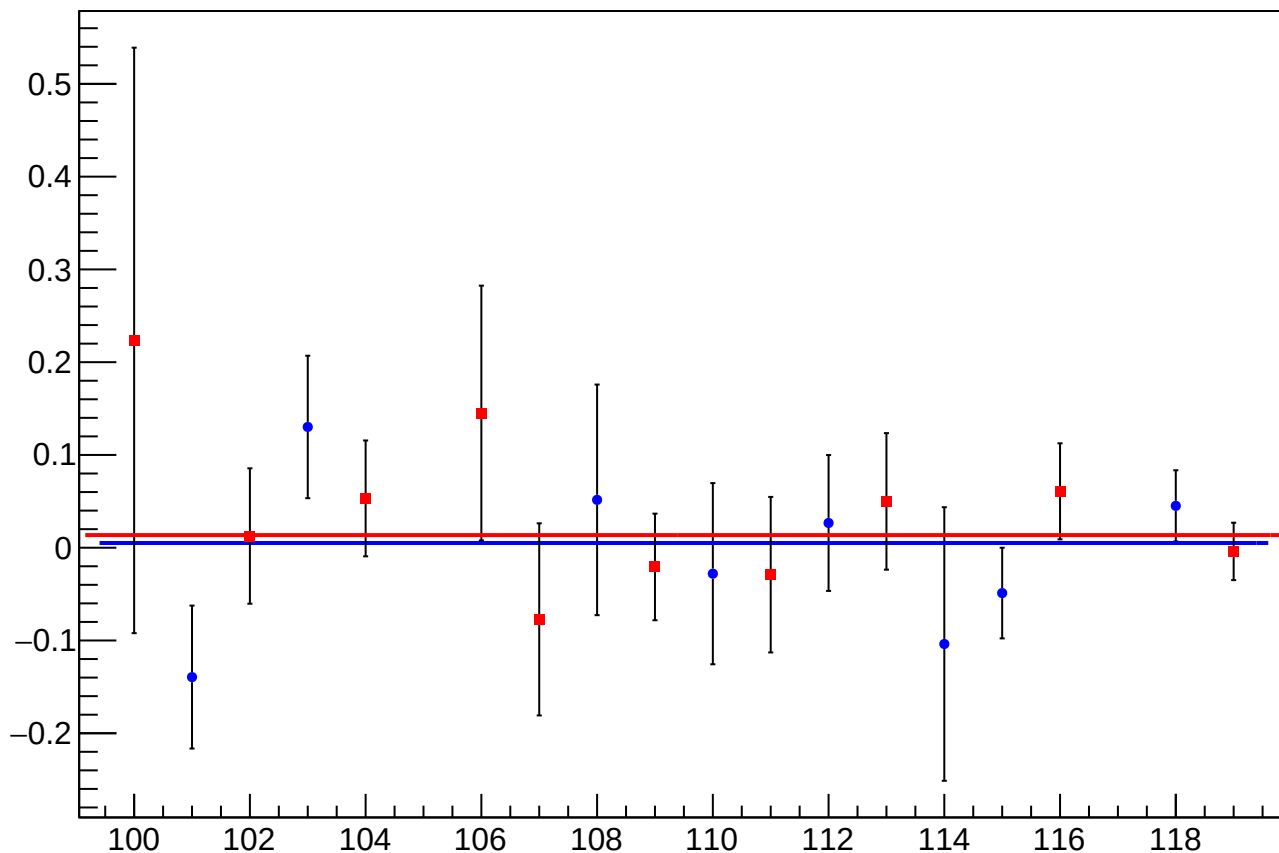
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.529+/-0.011  $\chi^2/\text{NDF}$ : 2249178.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.005 $\pm$ 0.023  $\chi^2$ /NDF: 9.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.019  $\chi^2$ /NDF: 4.5/9

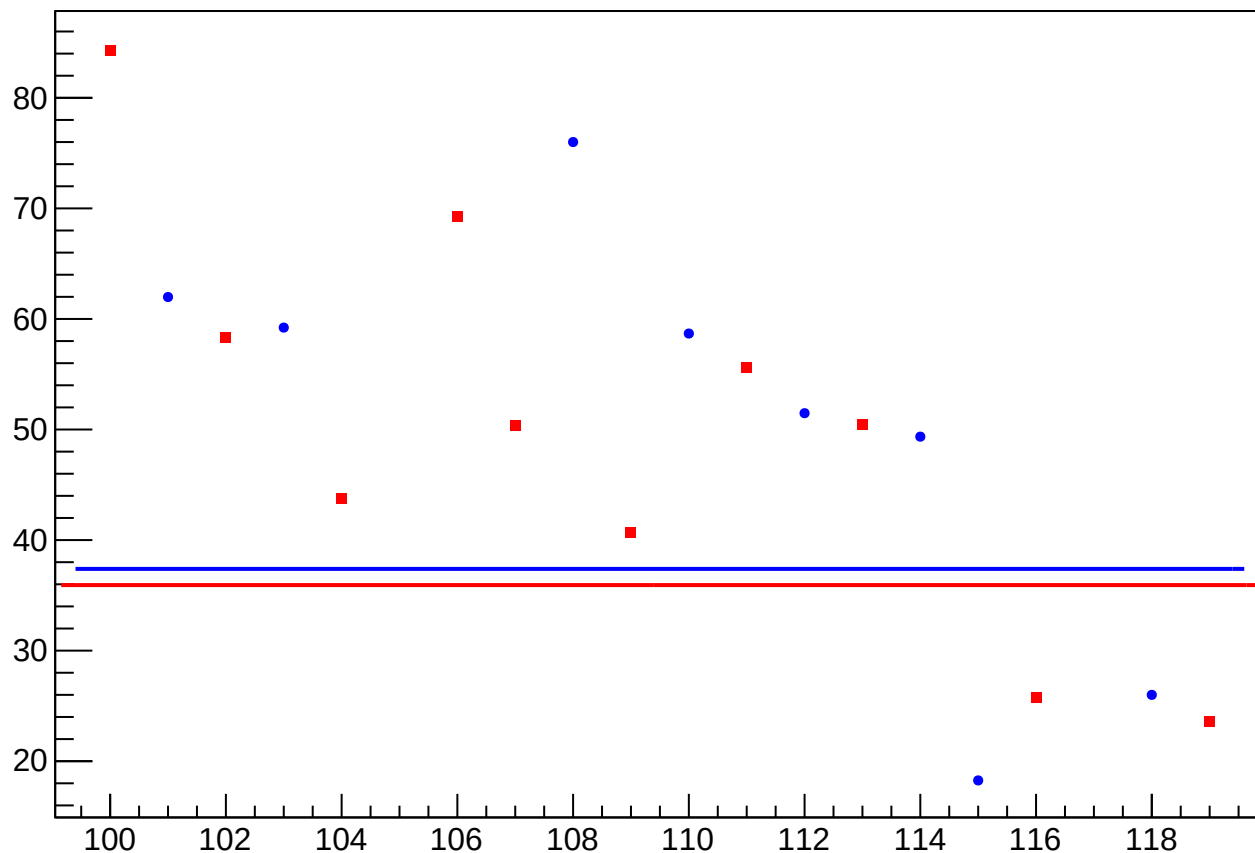
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.015  $\chi^2$ /NDF: 14.0/17

- 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: 37.394+/-0.016  $\chi^2/\text{NDF}$ : 1223379.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.929+/-0.014  $\chi^2/\text{NDF}$ : 1021146.1/9

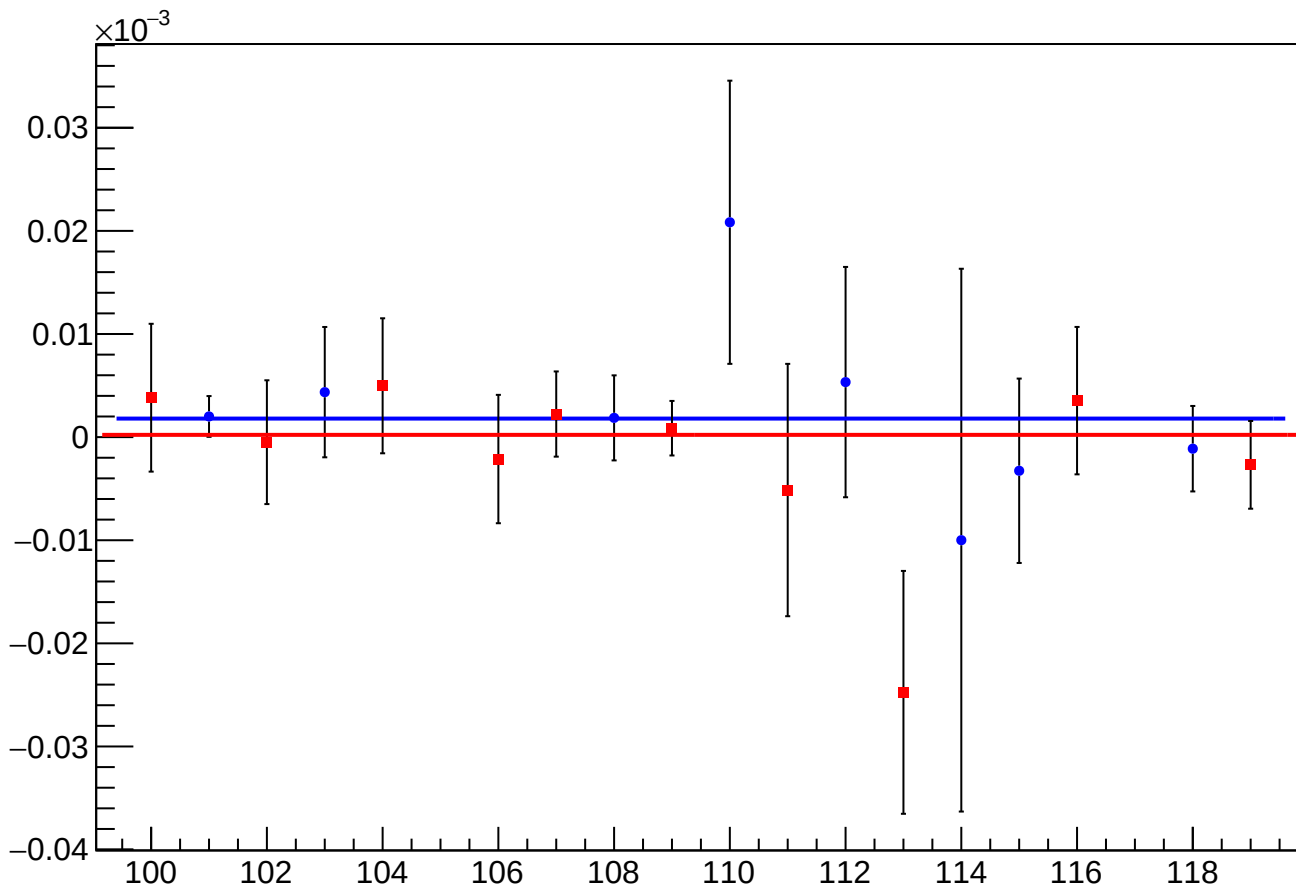
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.529+/-0.011  $\chi^2/\text{NDF}$ : 2249178.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.6/9

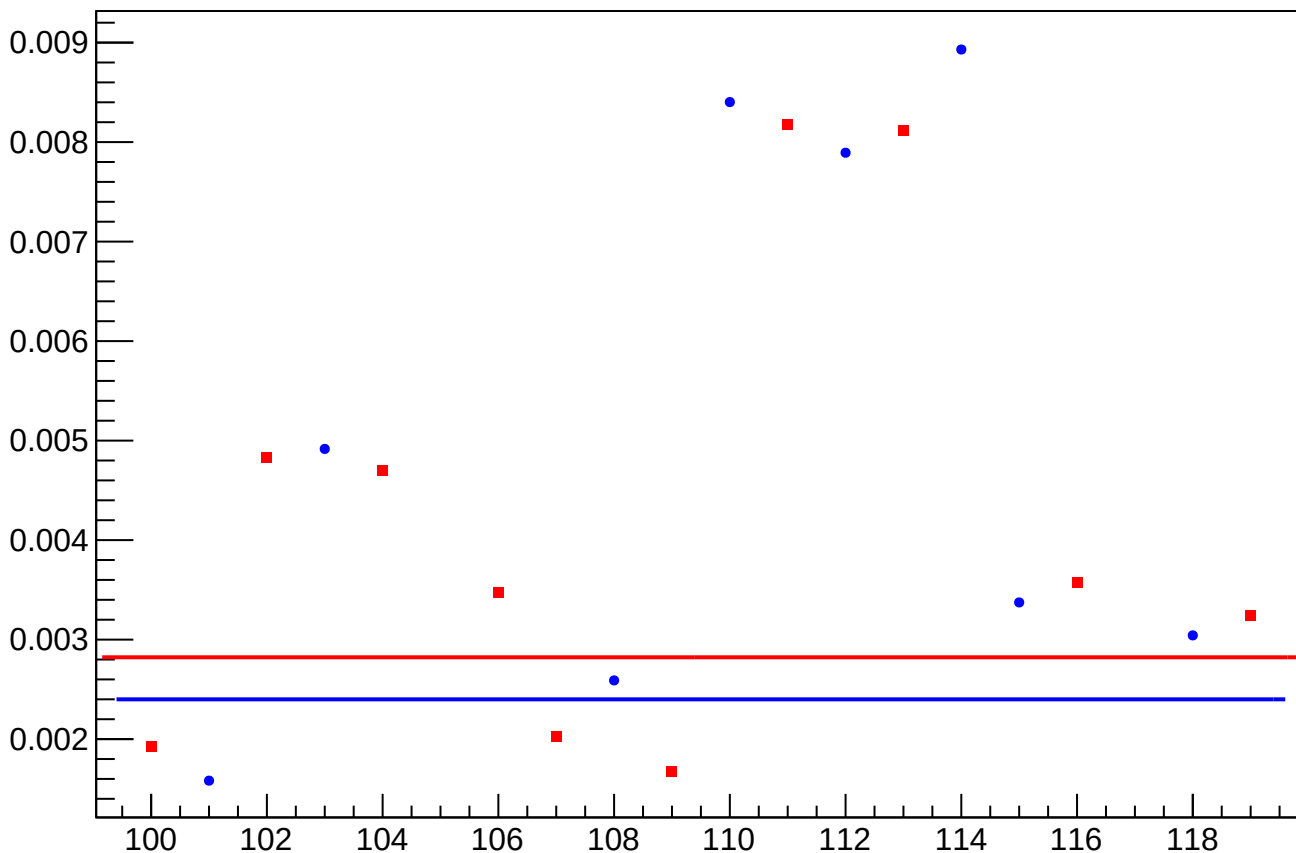
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 1724229.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 1721483.5/9

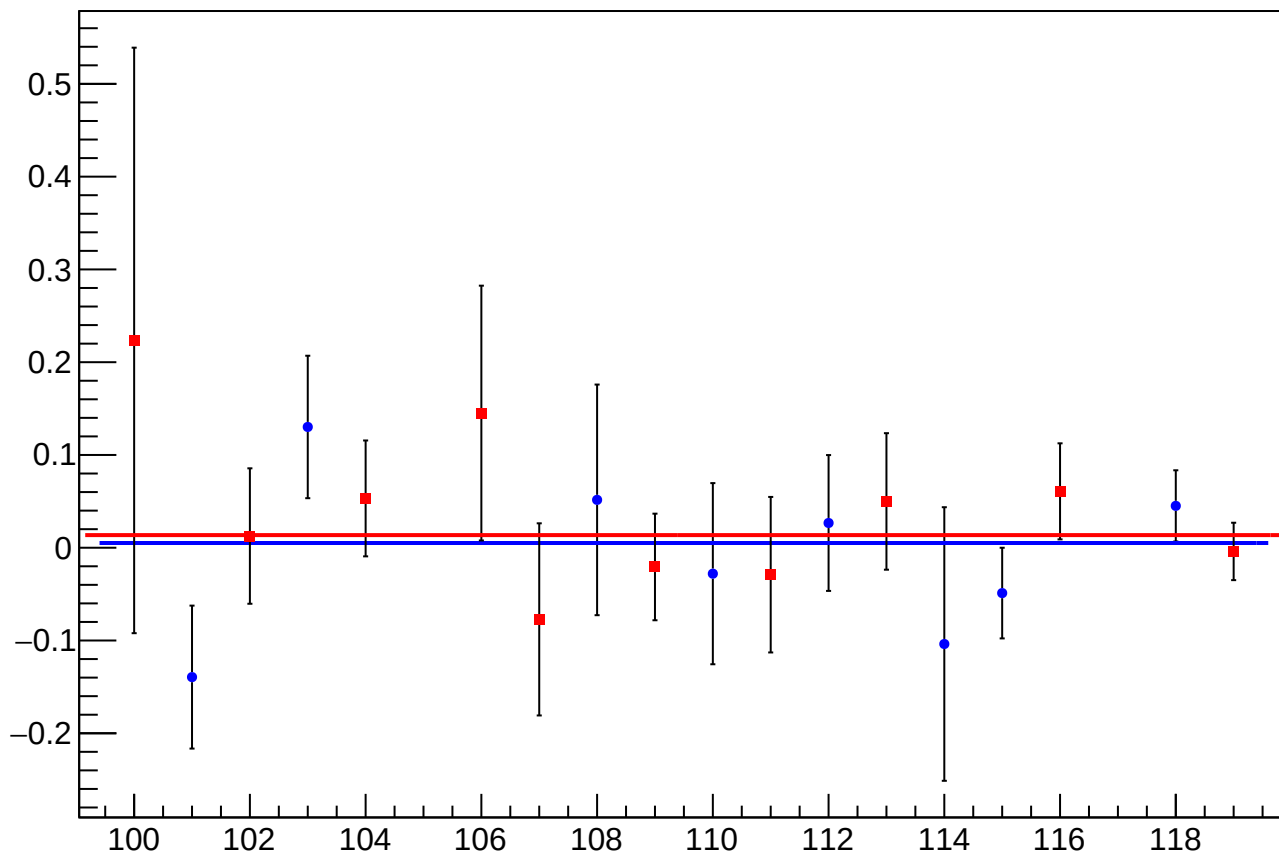
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 3517995.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.005 $\pm$ 0.023  $\chi^2$ /NDF: 9.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.019  $\chi^2$ /NDF: 4.5/9

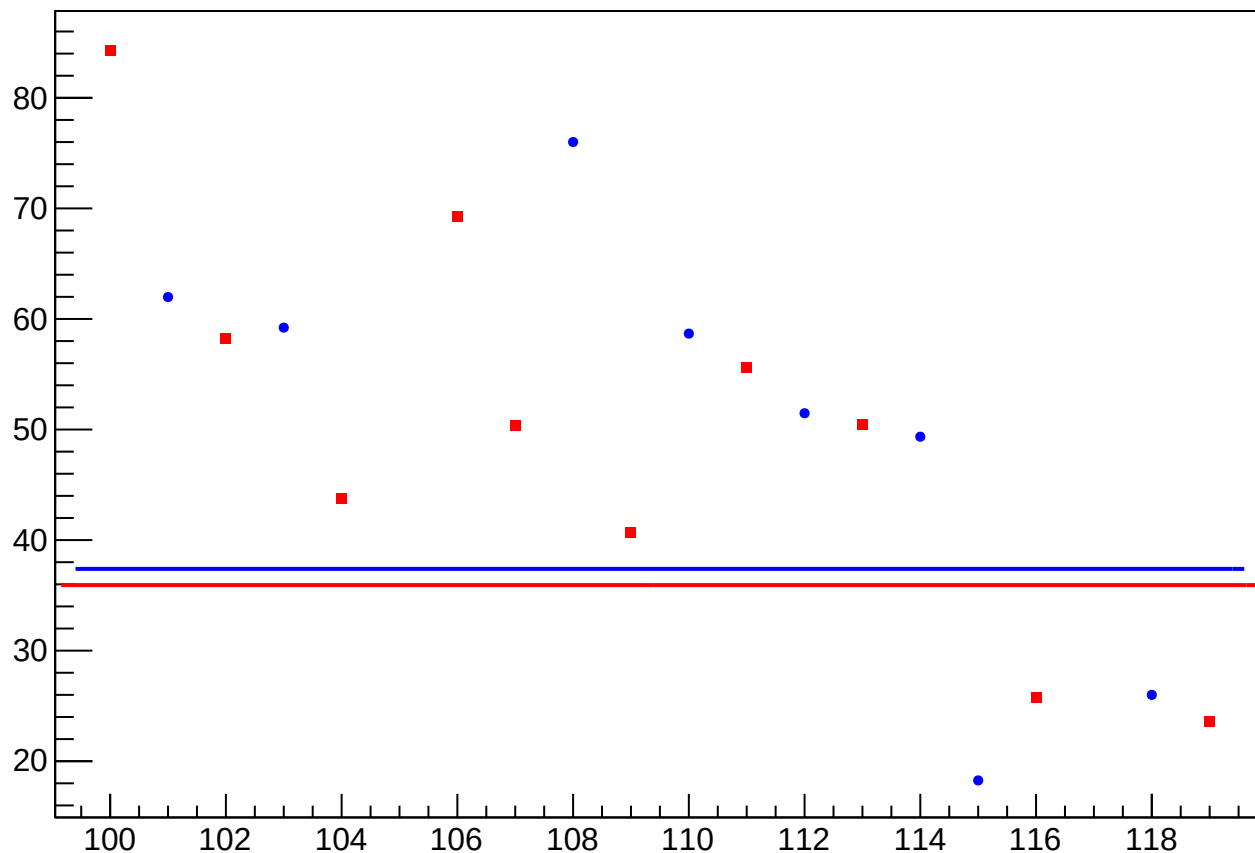
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.015  $\chi^2$ /NDF: 14.0/17

- 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: 37.394+/-0.016  $\chi^2/\text{NDF}$ : 1223207.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.930+/-0.014  $\chi^2/\text{NDF}$ : 1021018.3/9

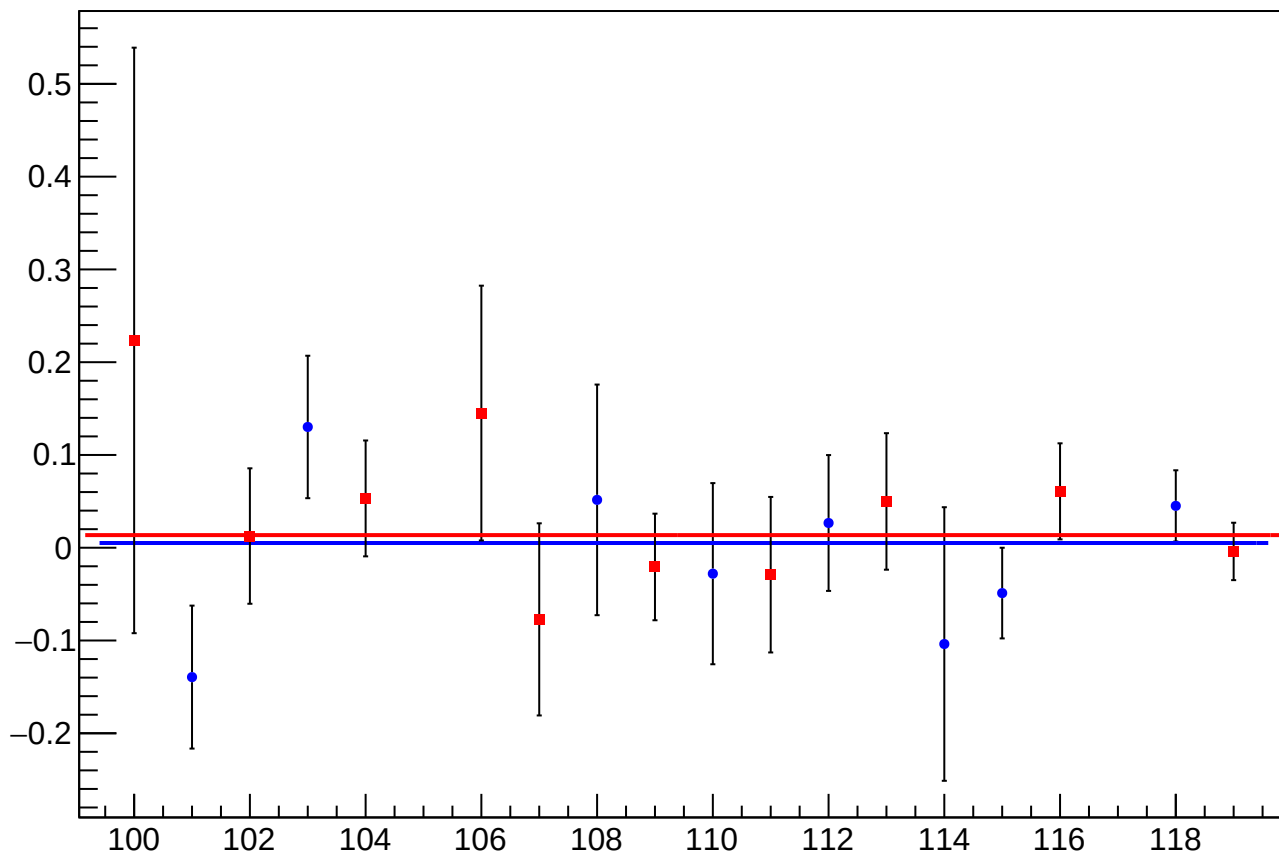
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.530+/-0.011  $\chi^2/\text{NDF}$ : 2248881.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.005 $\pm$ 0.023  $\chi^2$ /NDF: 9.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.019  $\chi^2$ /NDF: 4.5/9

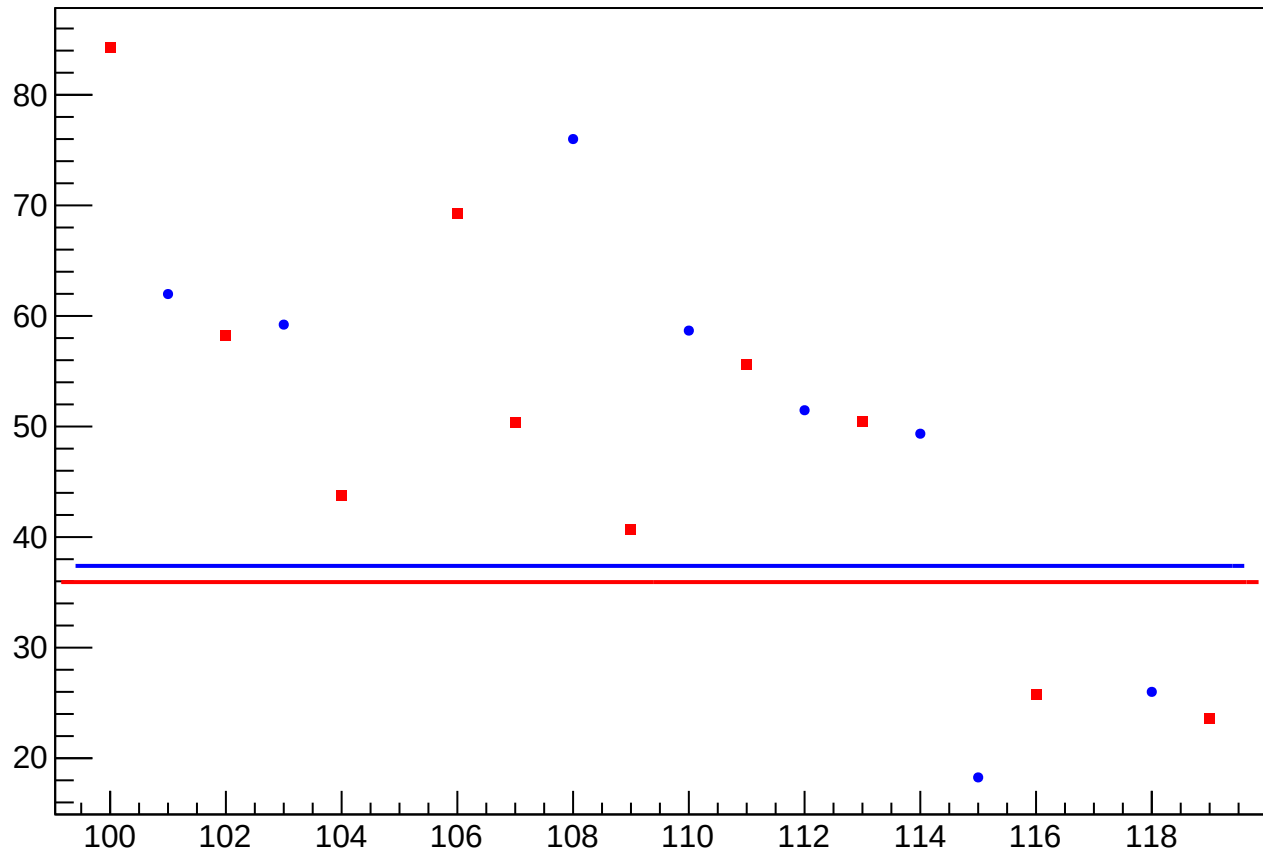
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.015  $\chi^2$ /NDF: 14.0/17

- 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: 37.394+/-0.016  $\chi^2/\text{NDF}$ : 1223207.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.930+/-0.014  $\chi^2/\text{NDF}$ : 1021018.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

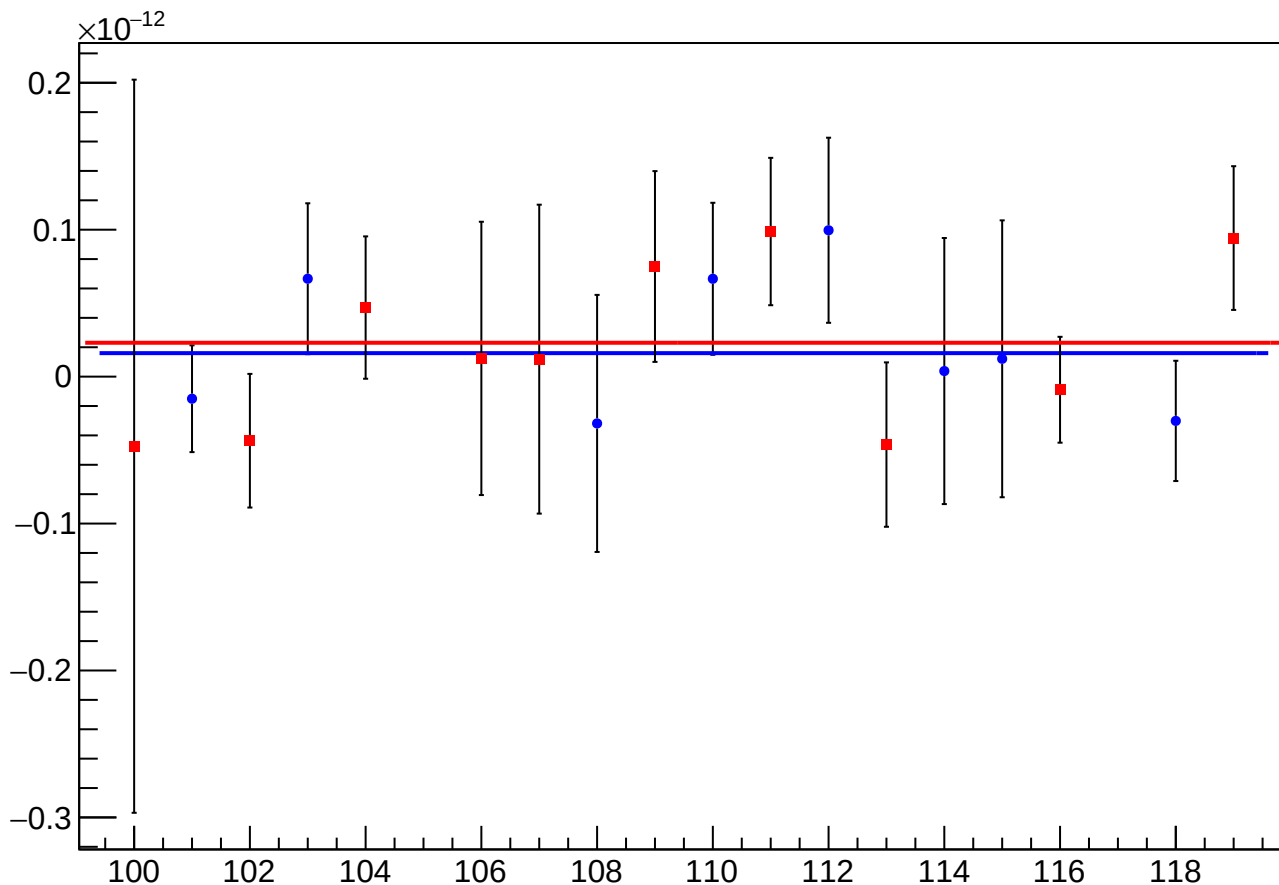
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.530+/-0.011  $\chi^2/\text{NDF}$ : 2248881.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 6.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.9/9

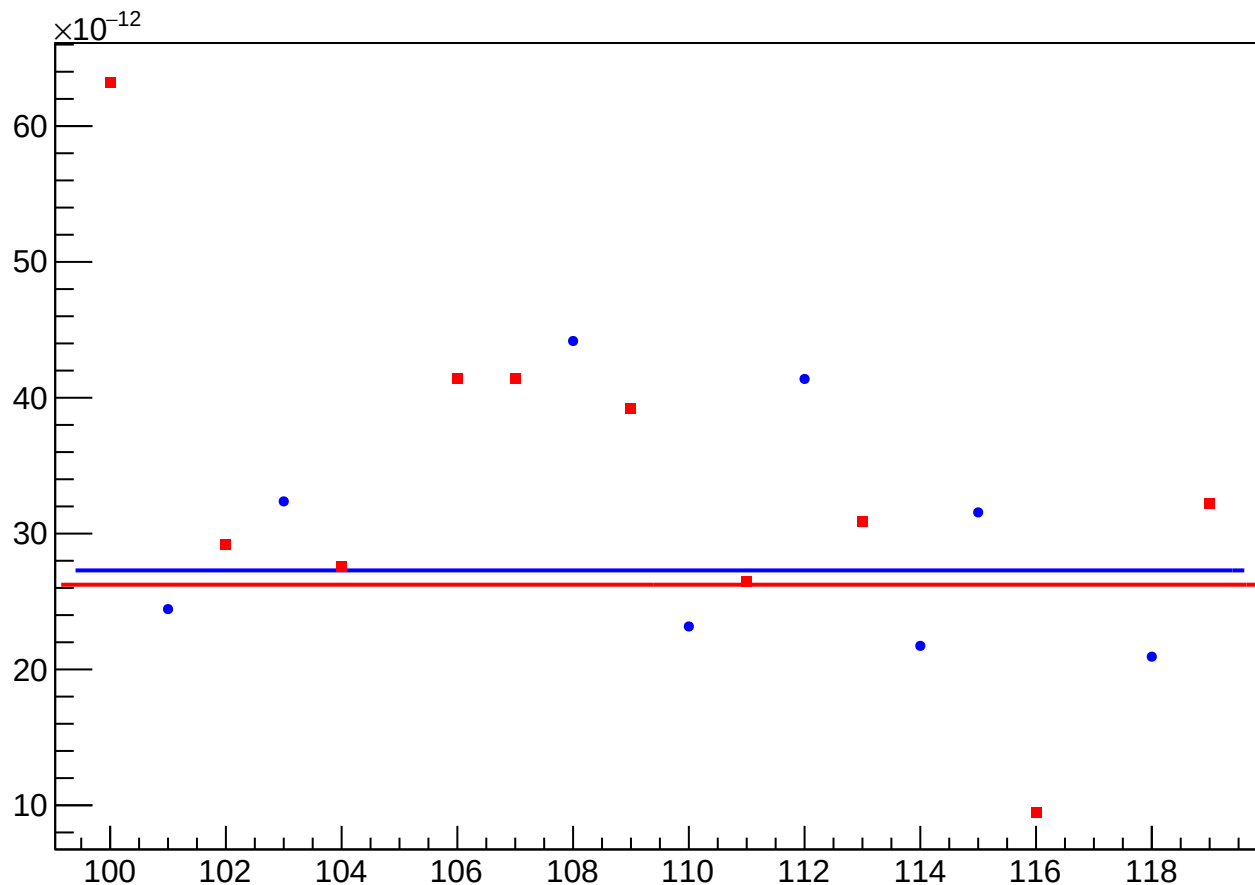
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.9/17

- 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  $\chi^2/\text{NDF}$ : 279095.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 706504.8/9

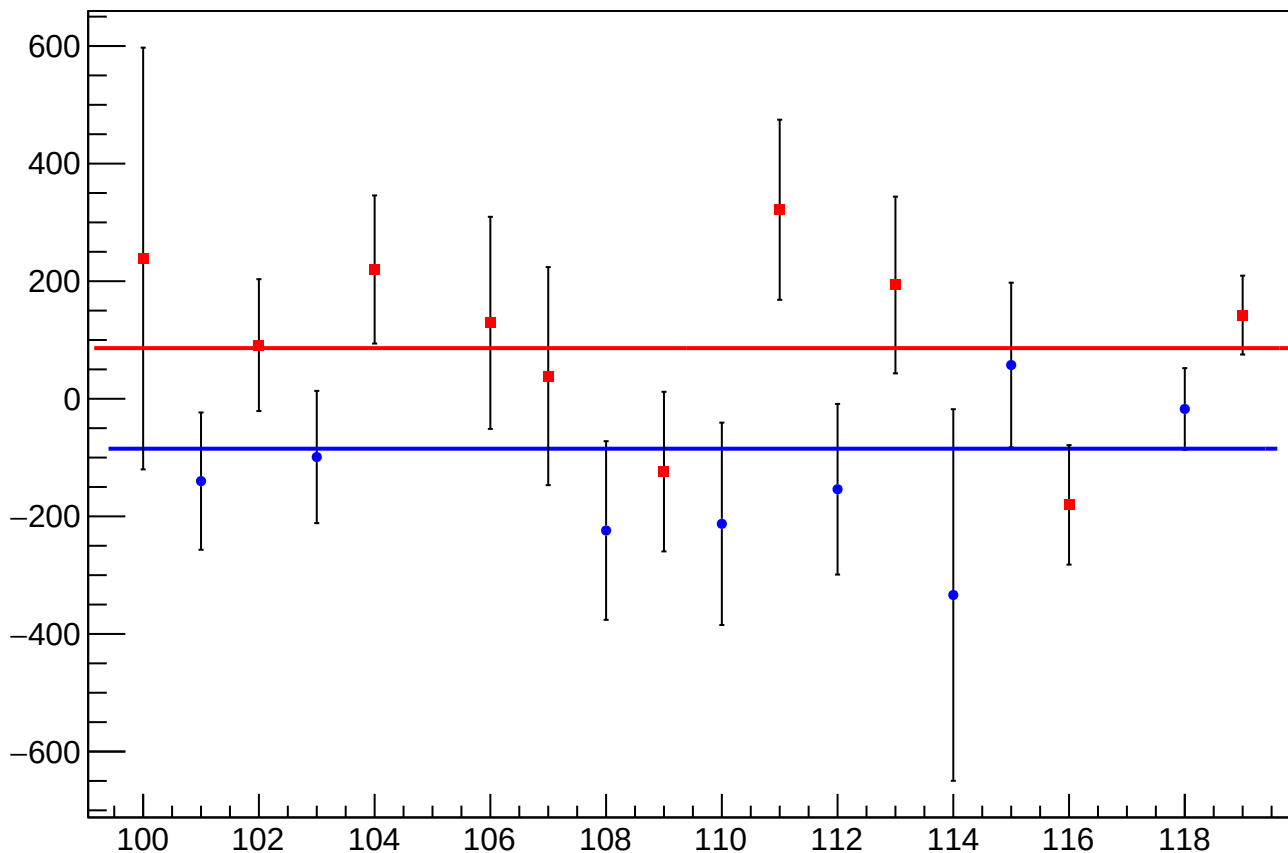
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 988893.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: -84.909 $\pm$ 42.830  $\chi^2$ /NDF: 4.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 86.178 $\pm$ 38.622  $\chi^2$ /NDF: 14.3/9

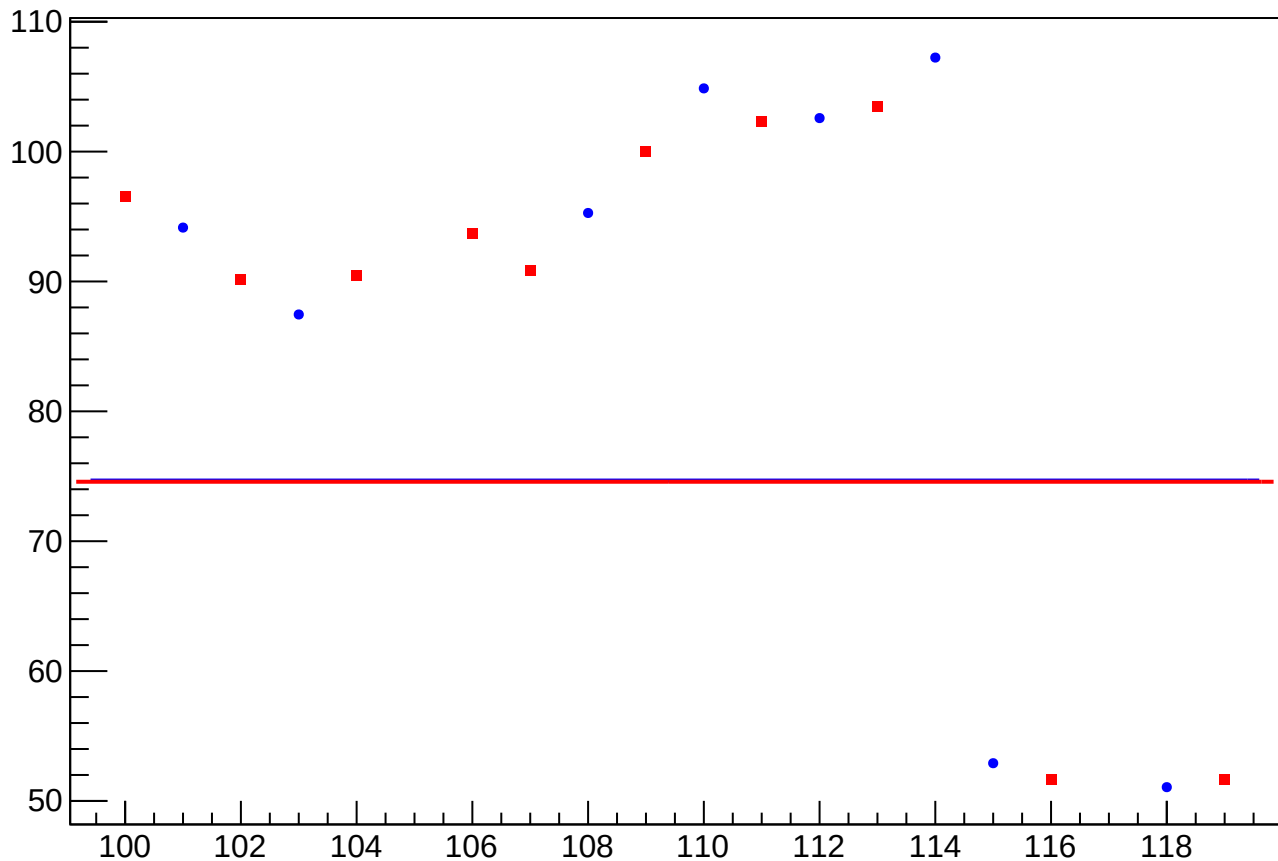
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.451 $\pm$ 28.683  $\chi^2$ /NDF: 27.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 74.671+/-0.030  $\chi^2/\text{NDF}$ : 554329.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 74.578+/-0.027  $\chi^2/\text{NDF}$ : 660589.9/9

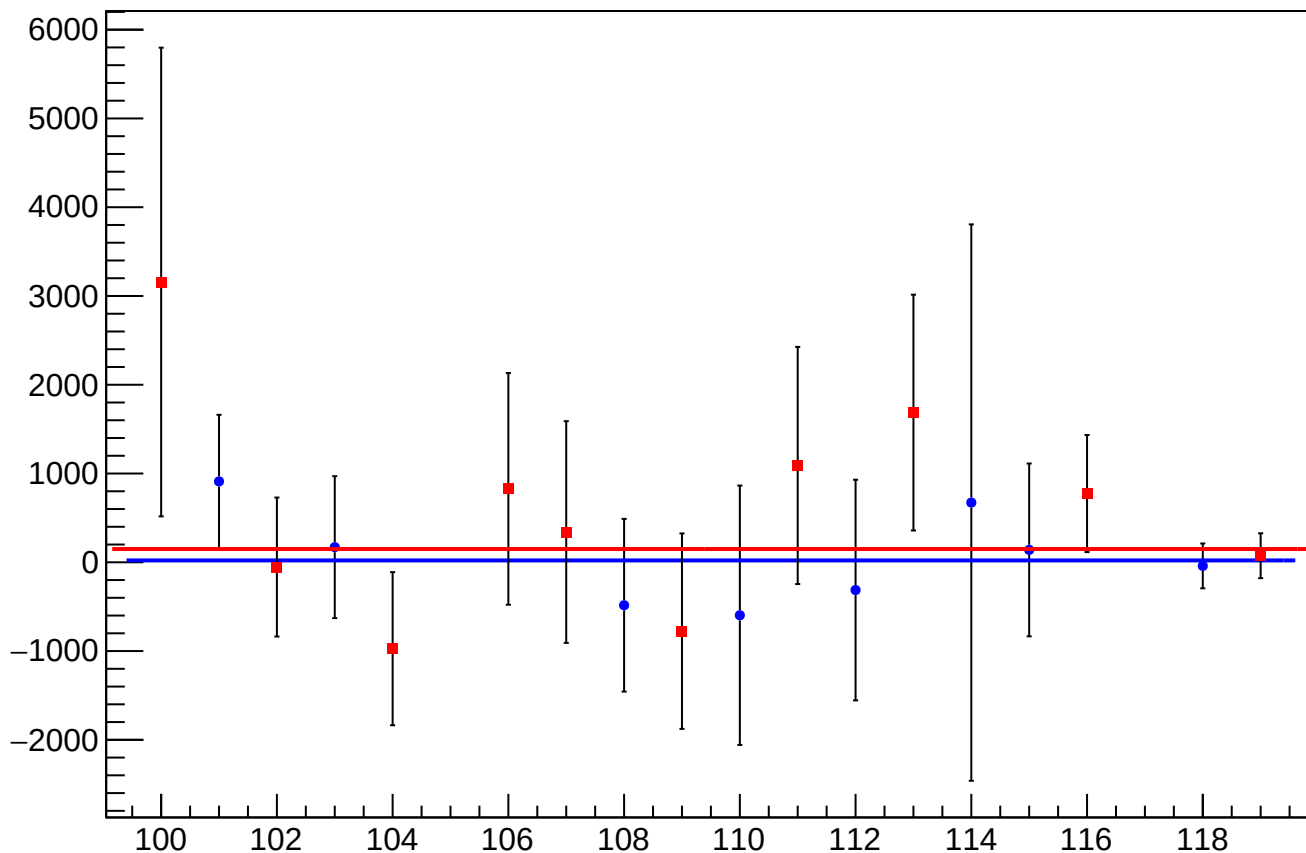
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.620+/-0.020  $\chi^2/\text{NDF}$ : 1214924.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_26\_dd\_reg\_correction\_mean vs Slug



Right In: 20.925+/-211.436  $\chi^2/\text{NDF}$ : 2.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 149.491+/-202.996  $\chi^2/\text{NDF}$ : 6.9/9

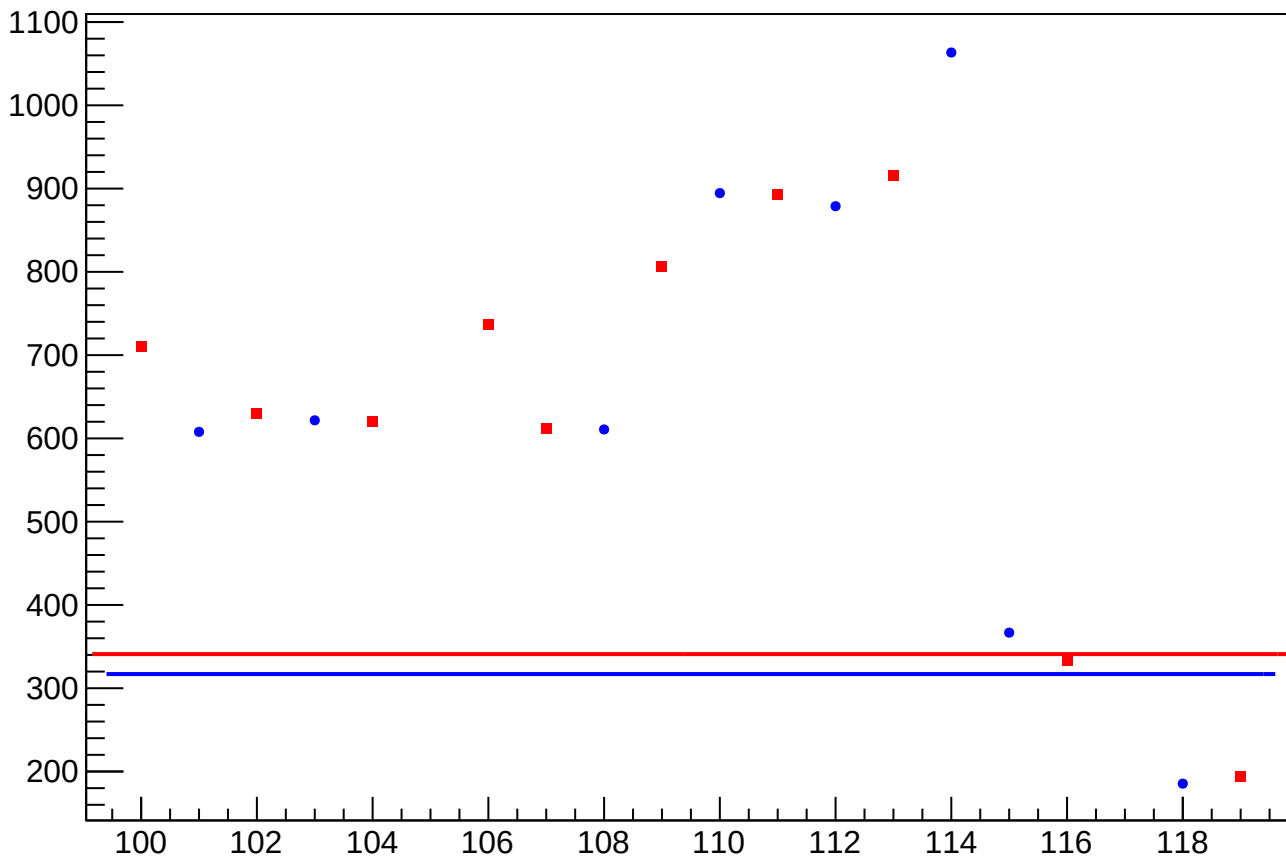
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 87.825+/-146.433  $\chi^2/\text{NDF}$ : 9.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_26\_dd\_reg\_correction\_rms vs Slug



Right In: 317.015 $\pm$ 0.150  $\chi^2$ /NDF: 2156885.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 340.981 $\pm$ 0.144  $\chi^2$ /NDF: 2553102.9/9

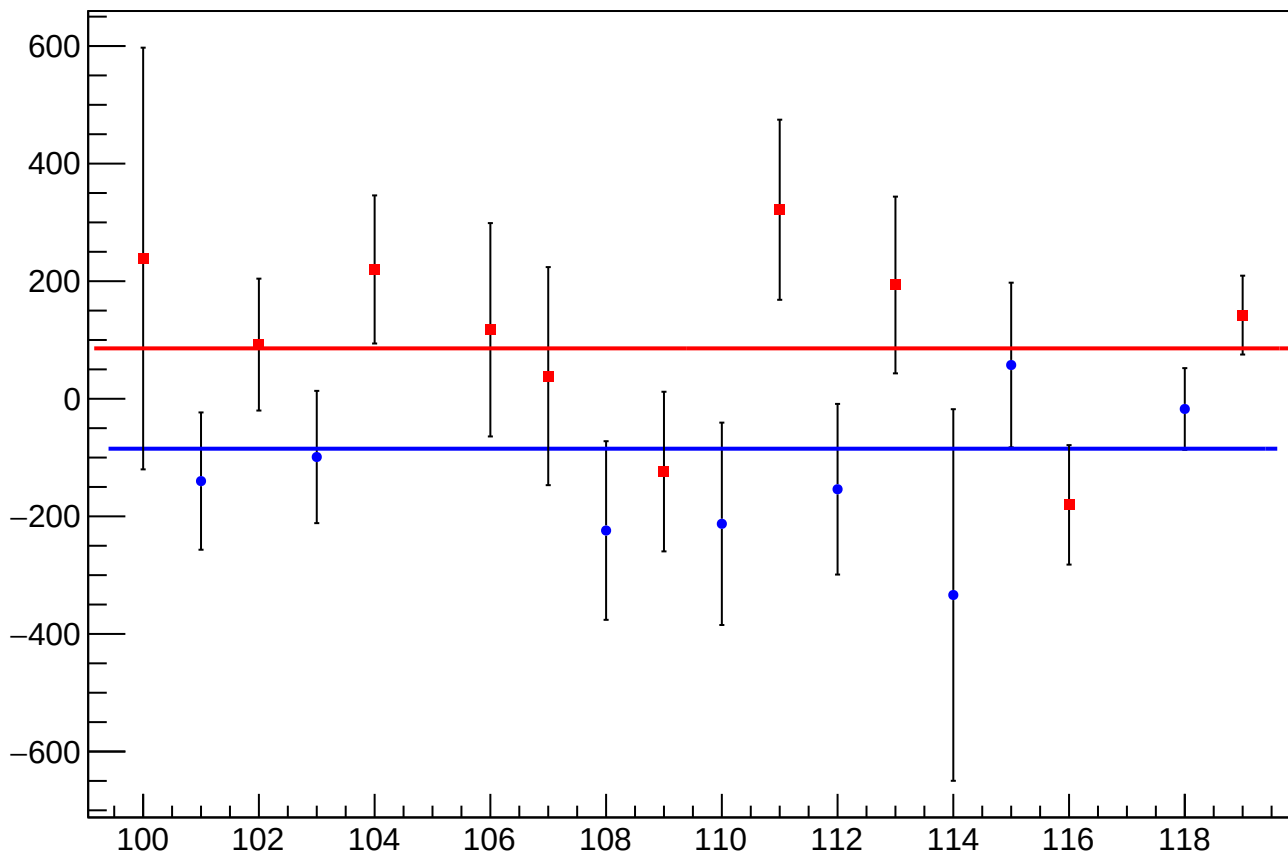
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 329.486 $\pm$ 0.104  $\chi^2$ /NDF: 4723359.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In:  $-84.919 \pm 42.830$   $\chi^2/\text{NDF}$ : 4.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $85.735 \pm 38.633$   $\chi^2/\text{NDF}$ : 14.3/9

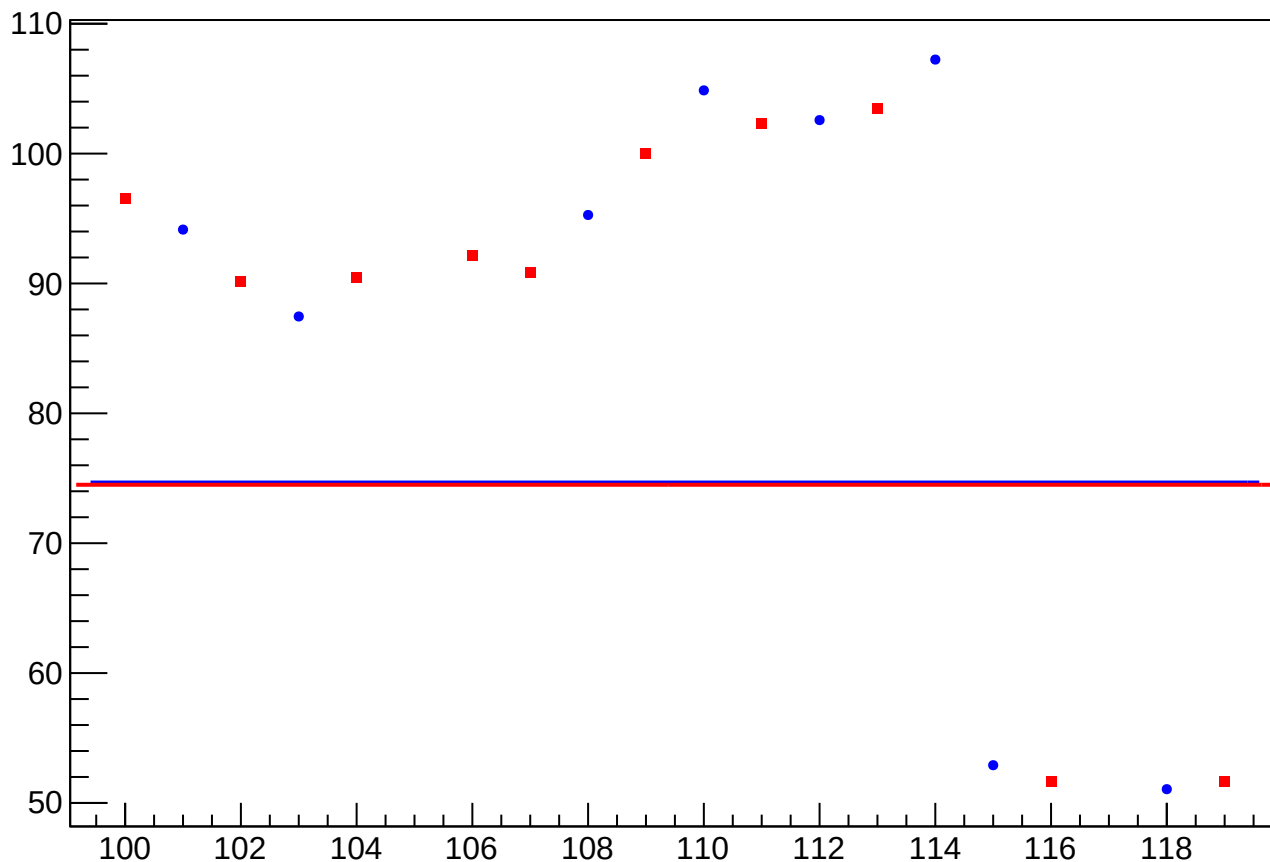
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $9.177 \pm 28.687$   $\chi^2/\text{NDF}$ : 27.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 74.671 $\pm$ 0.030  $\chi^2$ /NDF: 554329.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 74.500 $\pm$ 0.027  $\chi^2$ /NDF: 656990.6/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

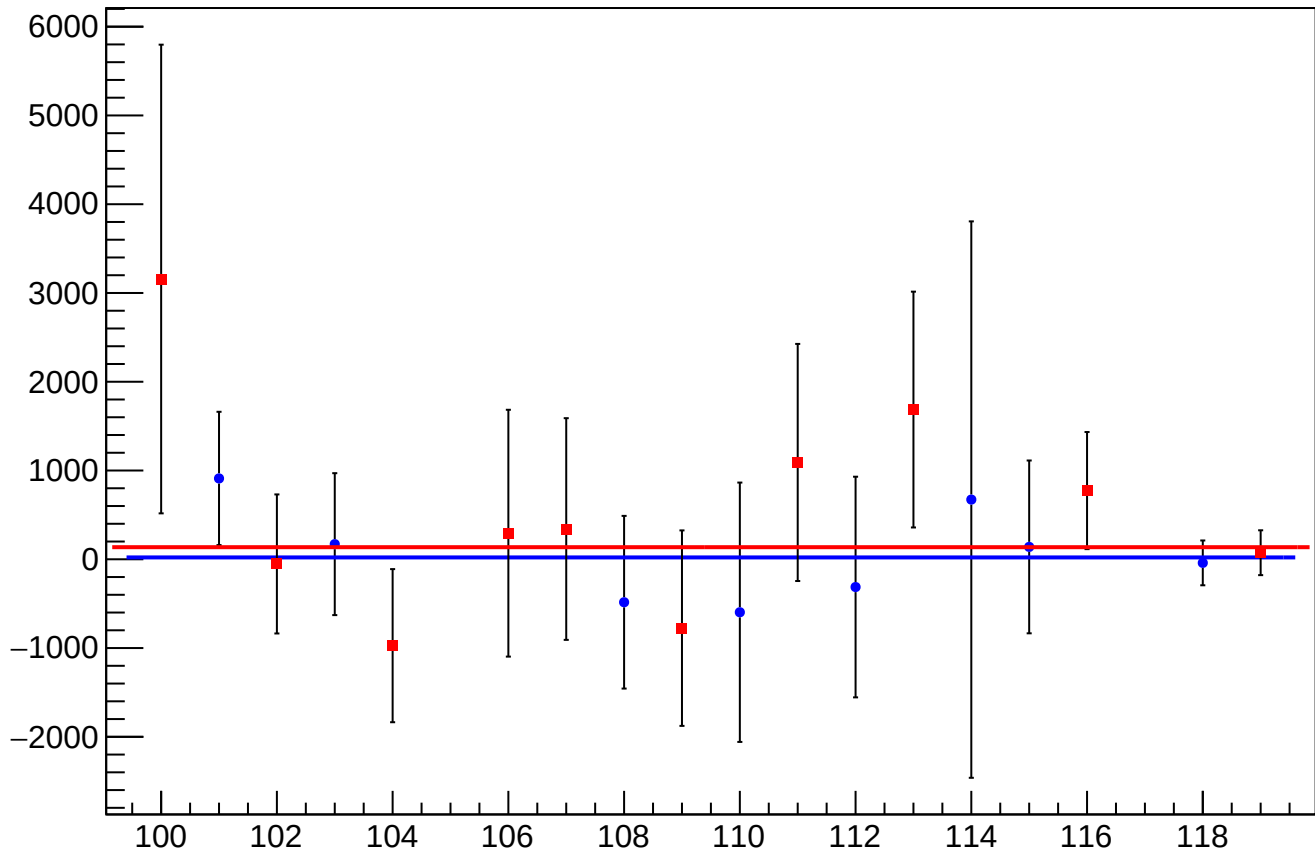
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 74.577 $\pm$ 0.020  $\chi^2$ /NDF: 1211337.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_26\_dd\_cor\_correction\_mean vs Slug



Right In: 20.911+/-211.436  $\chi^2/\text{NDF}$ : 2.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 136.221+/-203.294  $\chi^2/\text{NDF}$ : 6.6/9

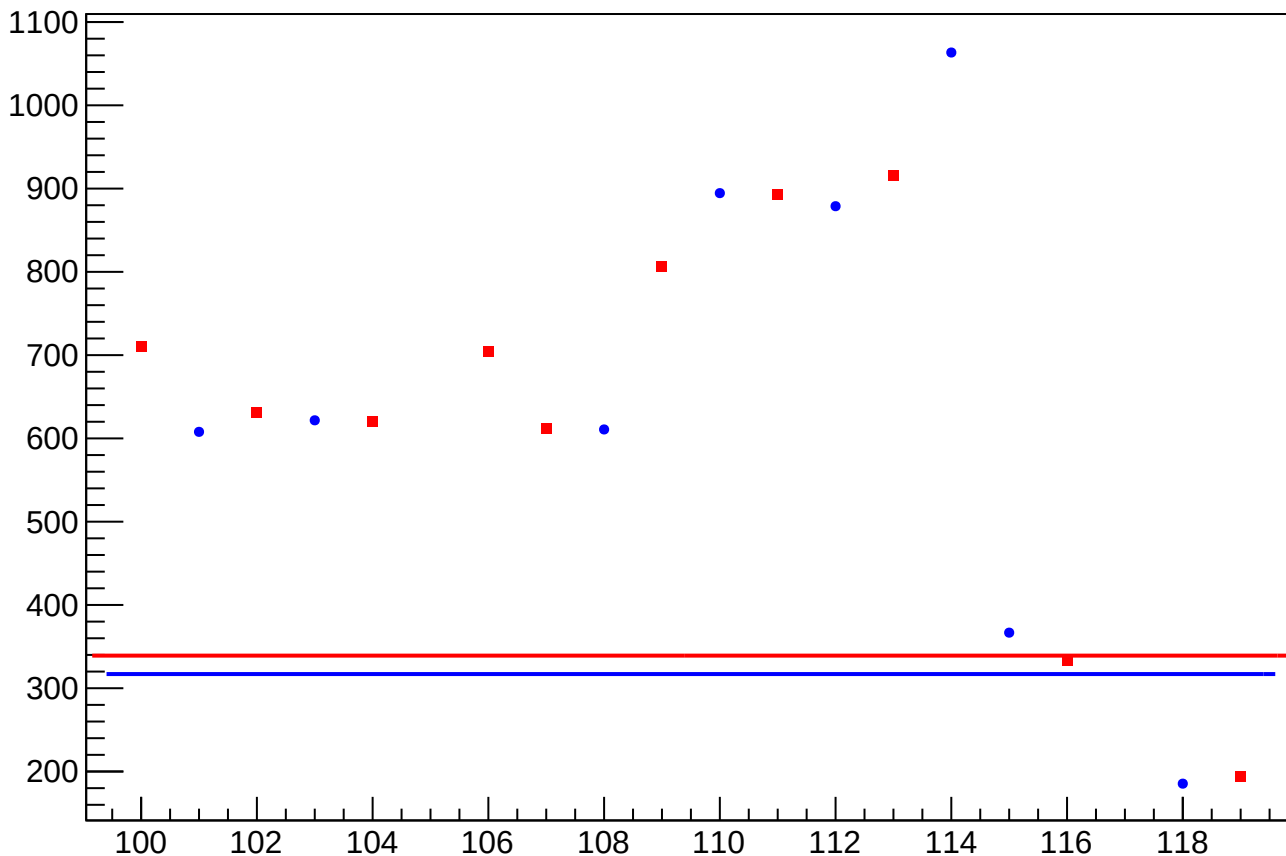
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 80.828+/-146.544  $\chi^2/\text{NDF}$ : 8.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_26\_dd\_cor\_correction\_rms vs Slug



Right In: 317.014 $\pm$ 0.150  $\chi^2$ /NDF: 2156908.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 339.156 $\pm$ 0.144  $\chi^2$ /NDF: 2506204.7/9

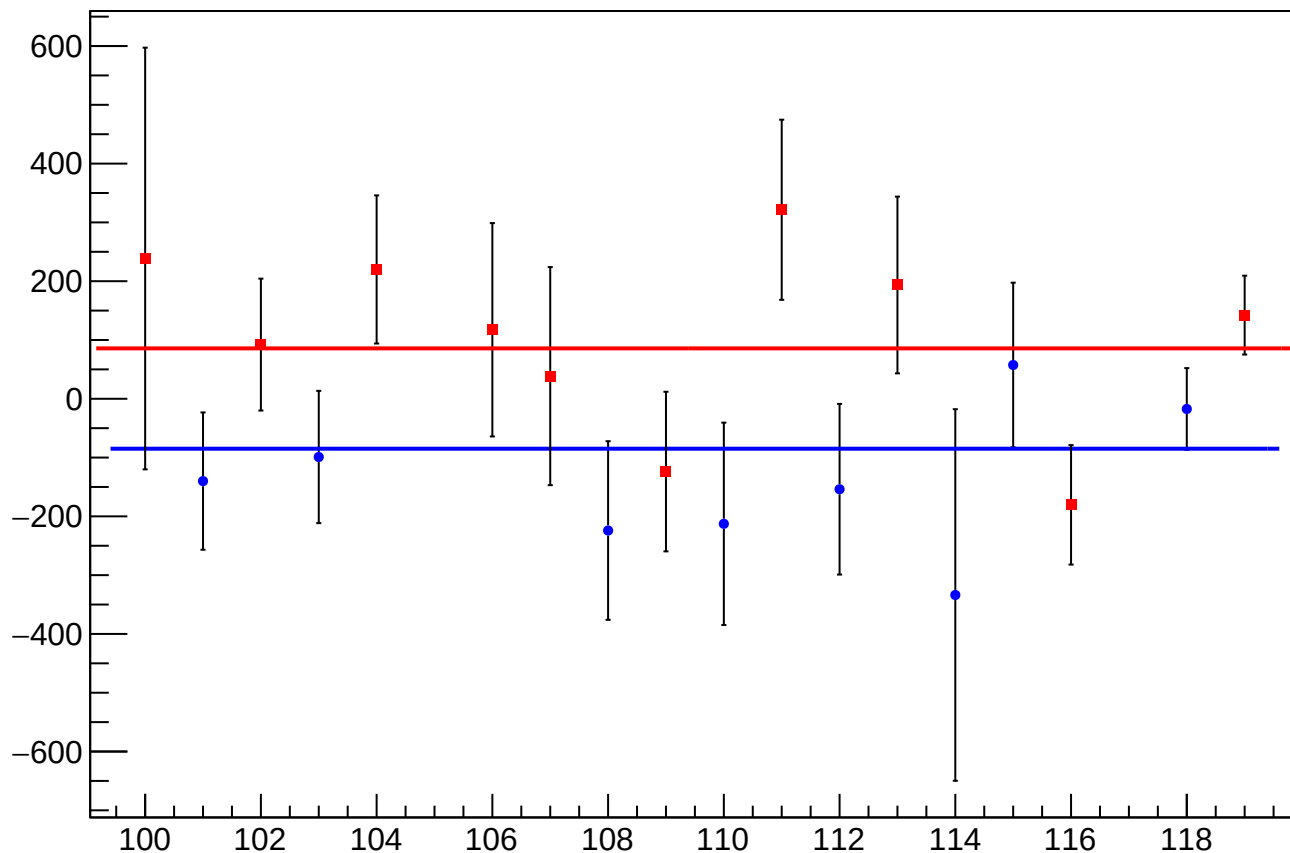
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 328.520 $\pm$ 0.104  $\chi^2$ /NDF: 4674510.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: -84.919 $\pm$ 42.830  $\chi^2$ /NDF: 4.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 85.735 $\pm$ 38.633  $\chi^2$ /NDF: 14.3/9

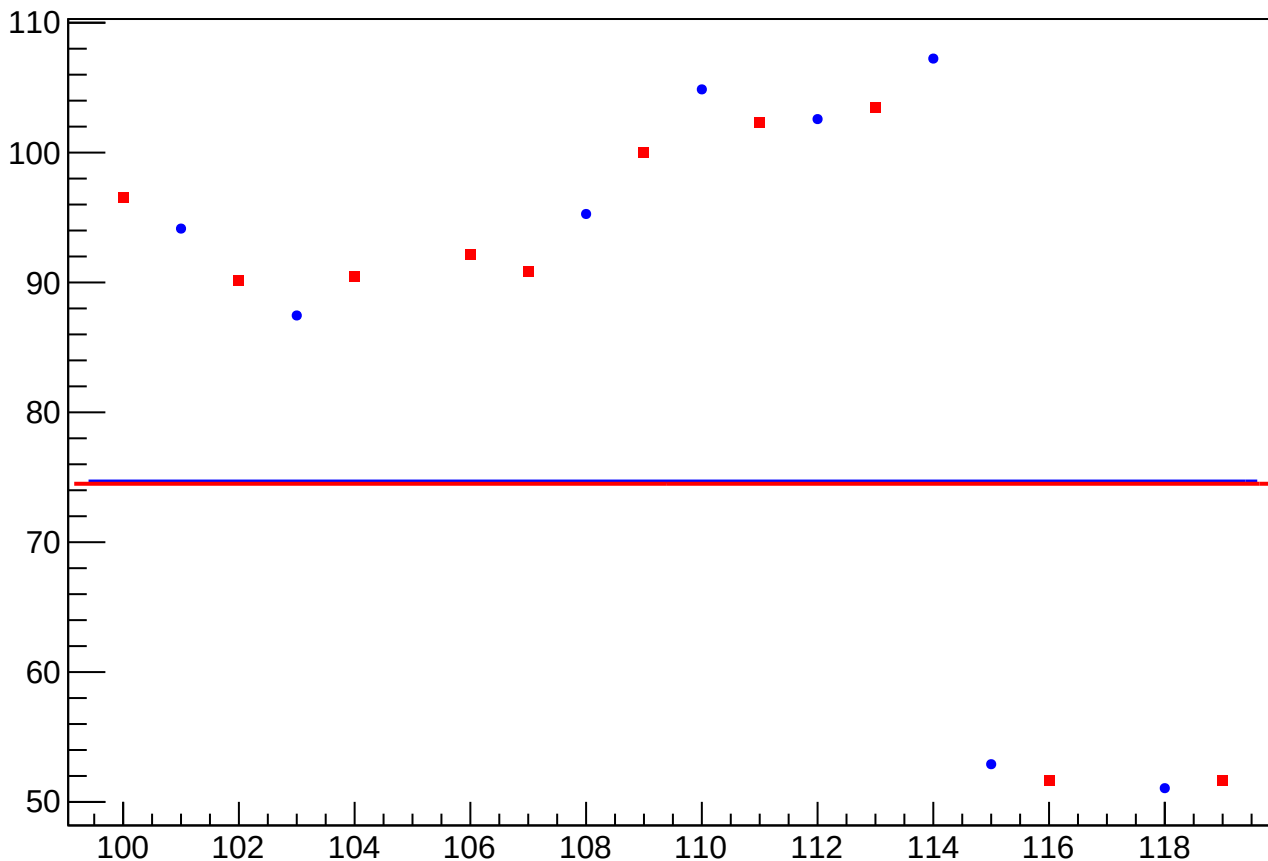
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.177 $\pm$ 28.687  $\chi^2$ /NDF: 27.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 74.671+/-0.030  $\chi^2/\text{NDF}$ : 554329.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 74.500+/-0.027  $\chi^2/\text{NDF}$ : 656990.6/9

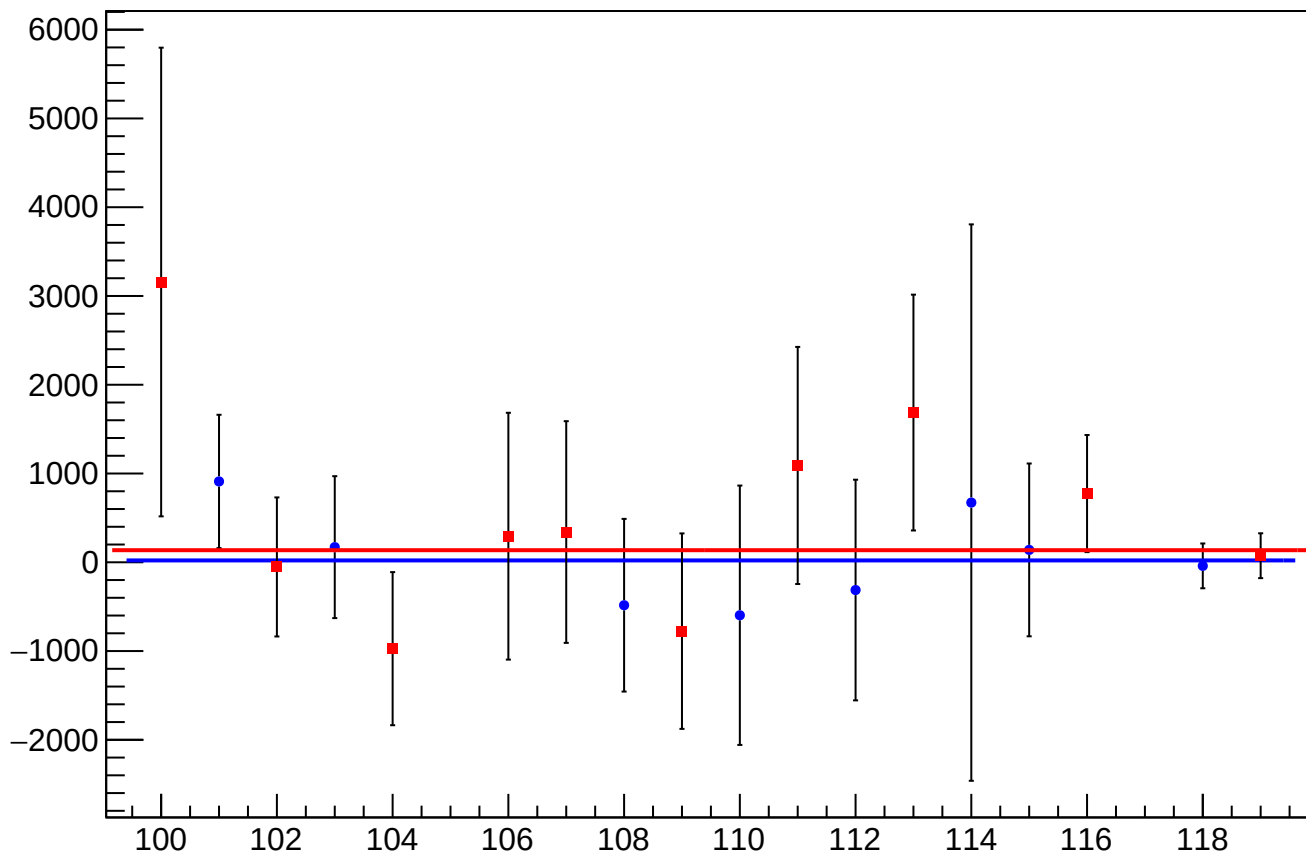
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.577+/-0.020  $\chi^2/\text{NDF}$ : 1211337.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 20.911 $\pm$ 211.436  $\chi^2$ /NDF: 2.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 136.221 $\pm$ 203.294  $\chi^2$ /NDF: 6.6/9

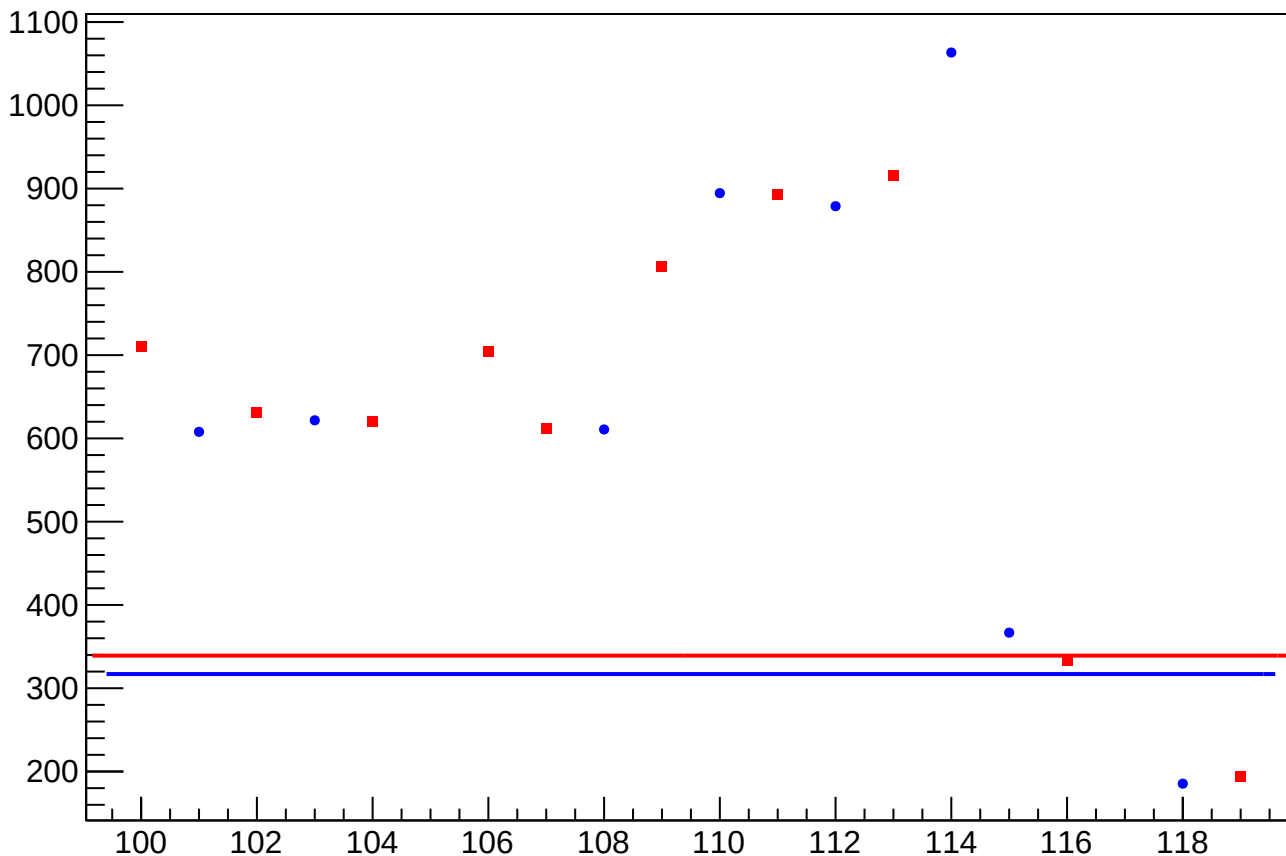
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 80.828 $\pm$ 146.544  $\chi^2$ /NDF: 8.8/17

- 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: 317.014 $\pm$ 0.150  $\chi^2$ /NDF: 2156908.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 339.156 $\pm$ 0.144  $\chi^2$ /NDF: 2506204.7/9

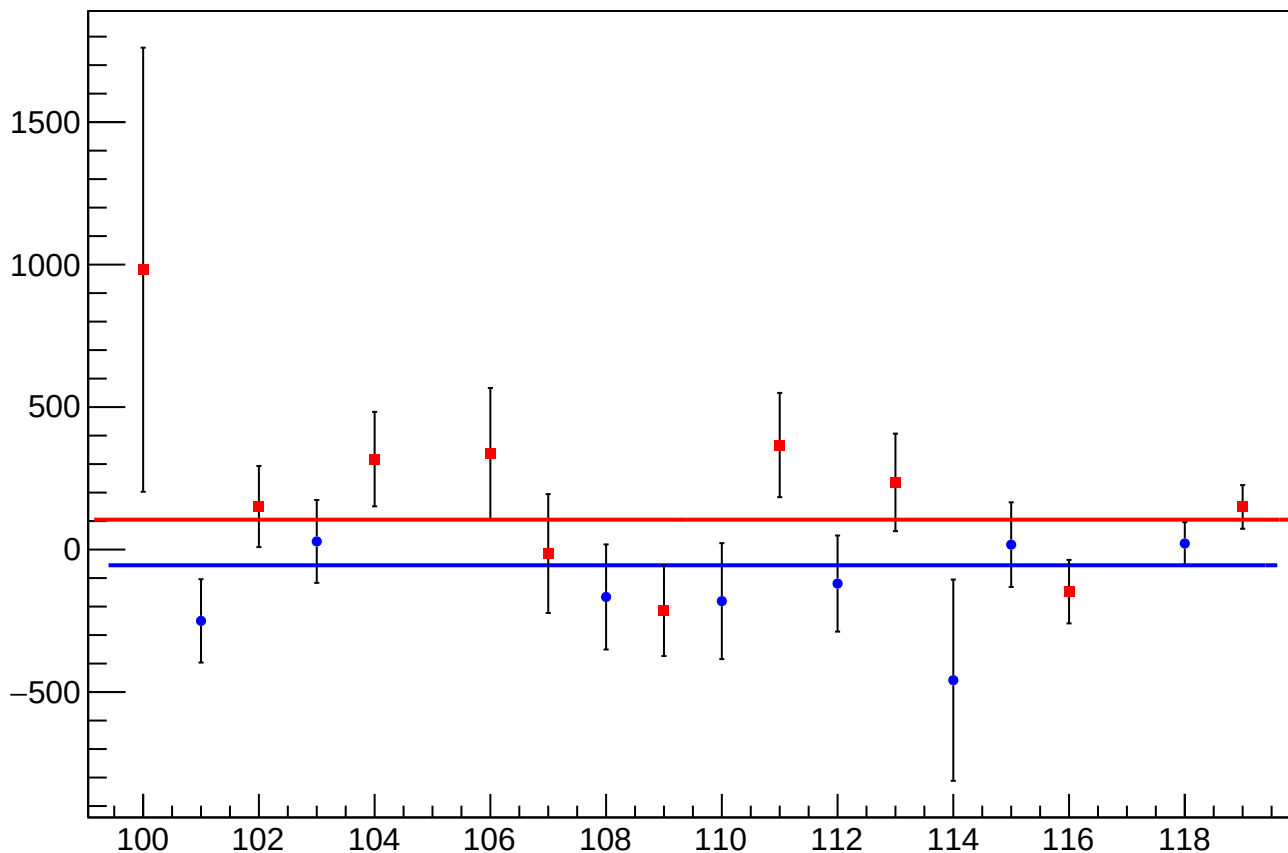
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 328.520 $\pm$ 0.104  $\chi^2$ /NDF: 4674510.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: -55.101 $\pm$ 49.091  $\chi^2$ /NDF: 5.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 104.905 $\pm$ 45.442  $\chi^2$ /NDF: 16.5/9

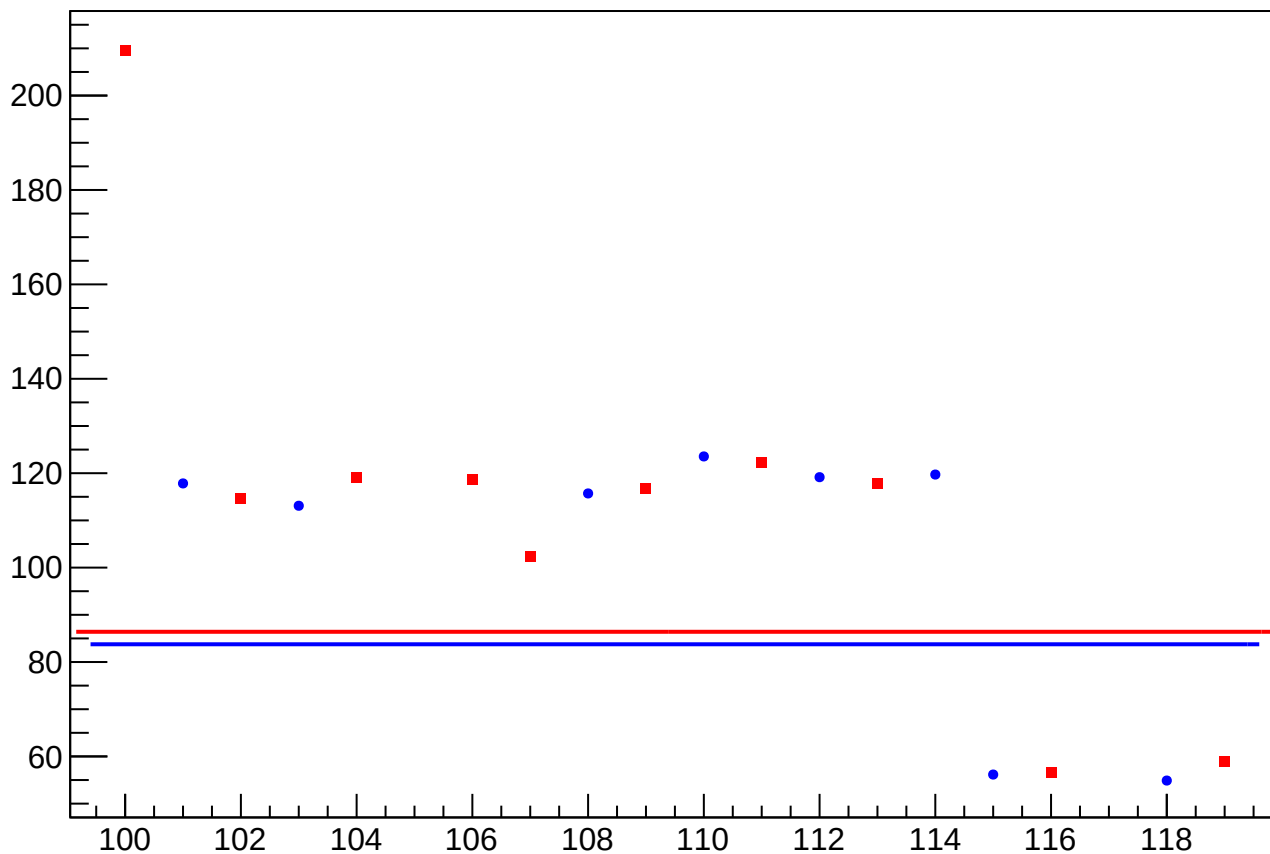
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.068 $\pm$ 33.348  $\chi^2$ /NDF: 27.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 83.758+/-0.035  $\chi^2/\text{NDF}$ : 802570.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 86.405+/-0.032  $\chi^2/\text{NDF}$ : 873615.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

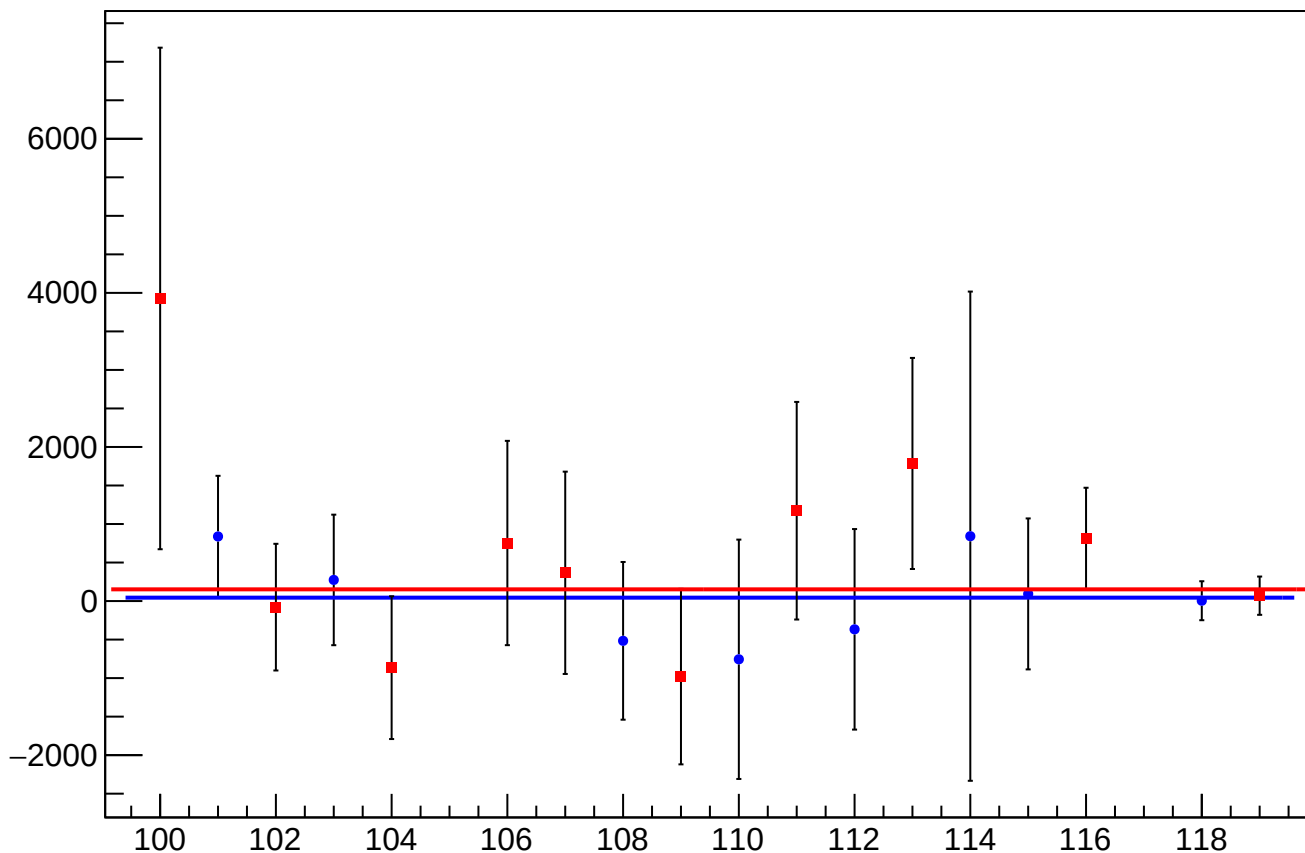
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 85.184+/-0.024  $\chi^2/\text{NDF}$ : 1679316.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_26\_dd\_dit\_correction\_mean vs Slug



Right In: 44.172+/-214.460  $\chi^2/\text{NDF}$ : 1.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 152.087+/-203.242  $\chi^2/\text{NDF}$ : 6.9/9

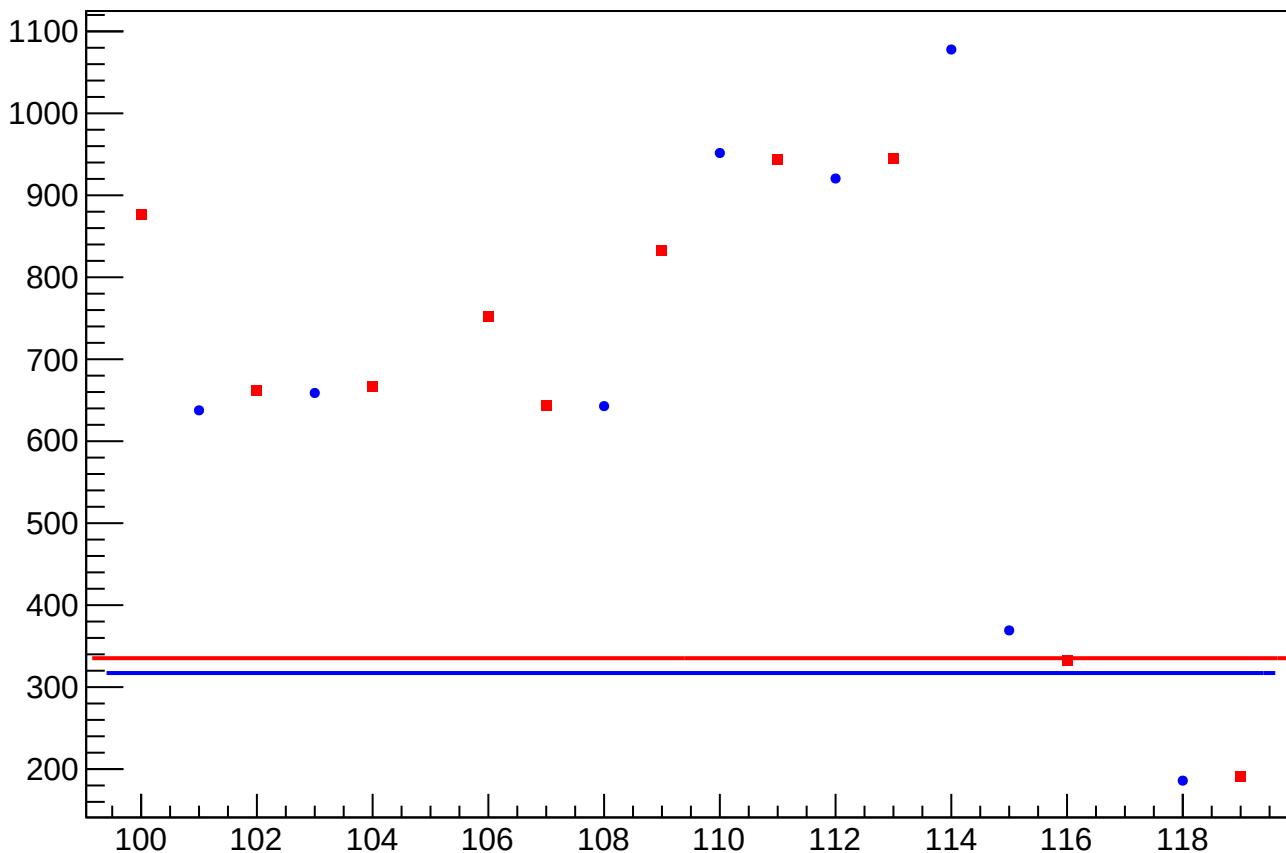
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 101.026+/-147.520  $\chi^2/\text{NDF}$ : 8.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_26\_dd\_dit\_correction\_rms vs Slug



Right In: 317.186+/-0.152  $\chi^2/\text{NDF}$ : 2282202.7/7

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

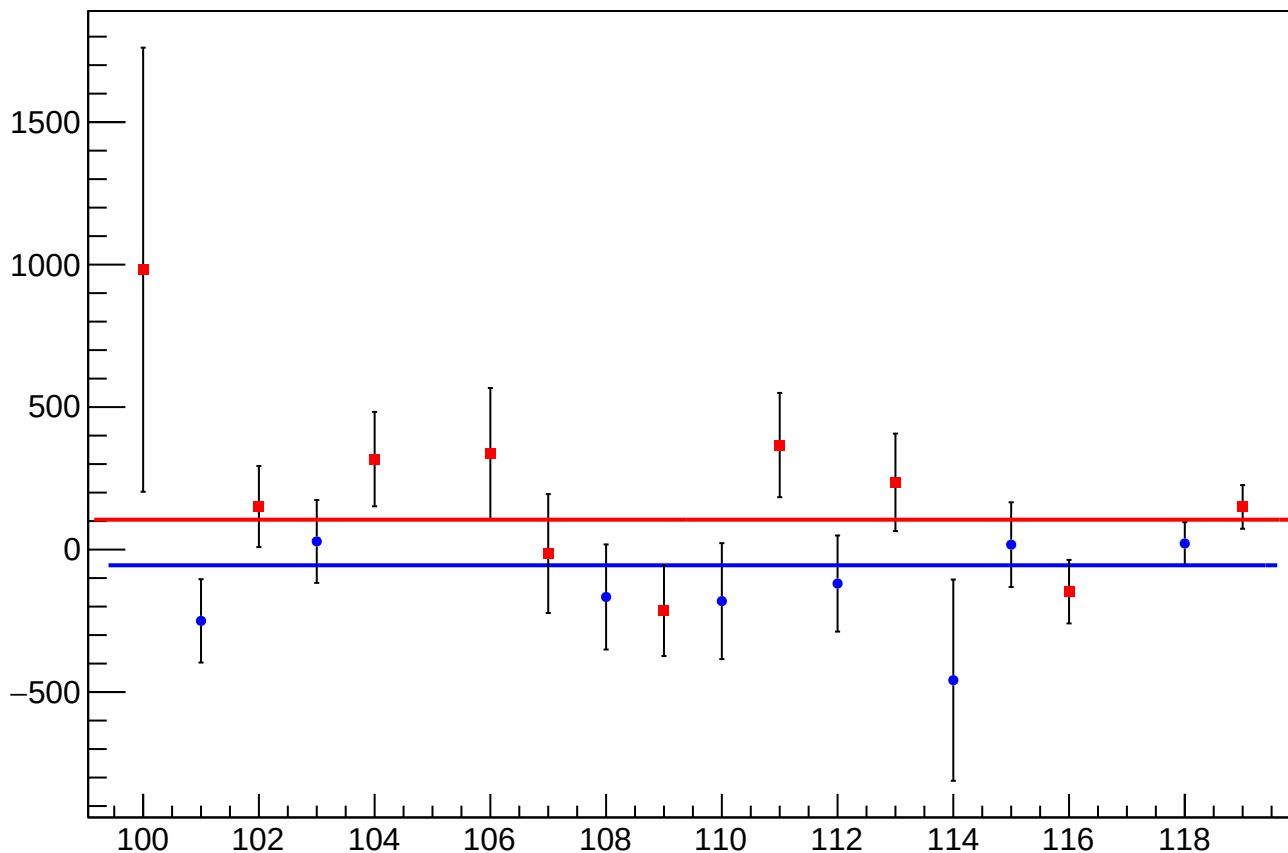
Right Out: 335.280+/-0.144  $\chi^2/\text{NDF}$ : 2764378.5/9

All: 326.718+/-0.104  $\chi^2/\text{NDF}$ : 5054081.9/17

- 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\_sam\_37\_26\_dd\_mean vs Slug



Right In: -55.100 $\pm$ 49.090  $\chi^2$ /NDF: 5.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 104.907 $\pm$ 45.442  $\chi^2$ /NDF: 16.5/9

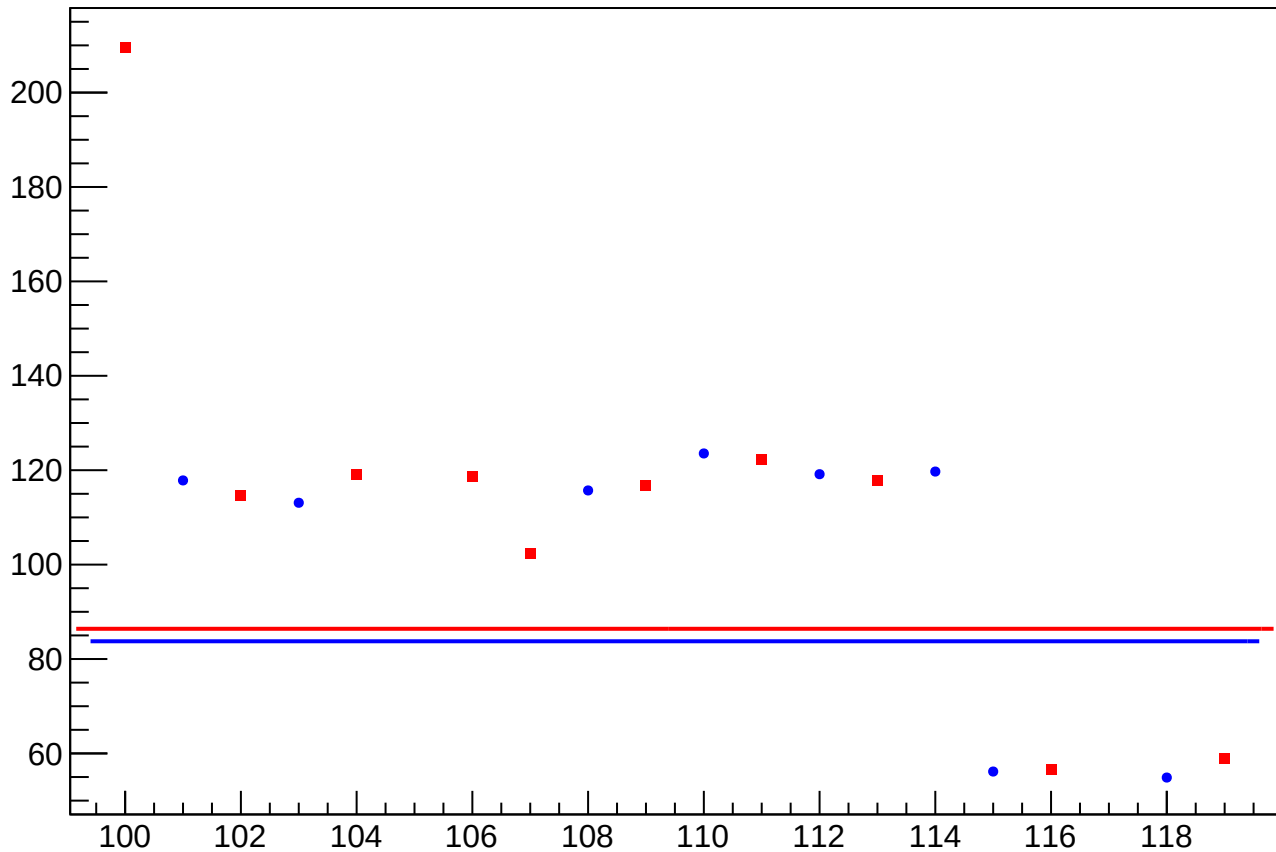
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.070 $\pm$ 33.348  $\chi^2$ /NDF: 27.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 83.758 $\pm$ 0.035  $\chi^2$ /NDF: 802569.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 86.404 $\pm$ 0.032  $\chi^2$ /NDF: 873618.4/9

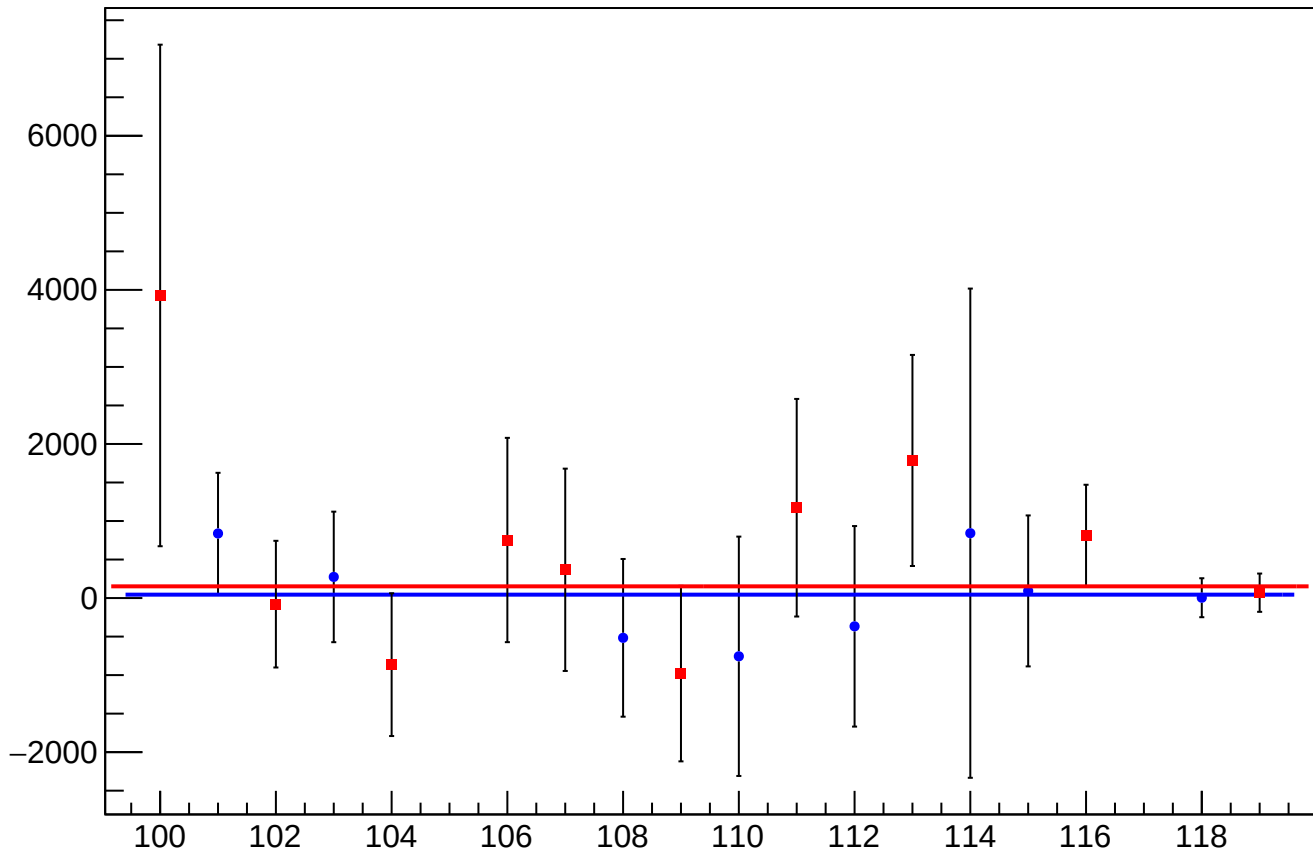
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 85.183 $\pm$ 0.024  $\chi^2$ /NDF: 1679318.2/17

- 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: 44.171+/-214.459  $\chi^2/\text{NDF}$ : 1.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 152.085+/-203.241  $\chi^2/\text{NDF}$ : 6.9/9

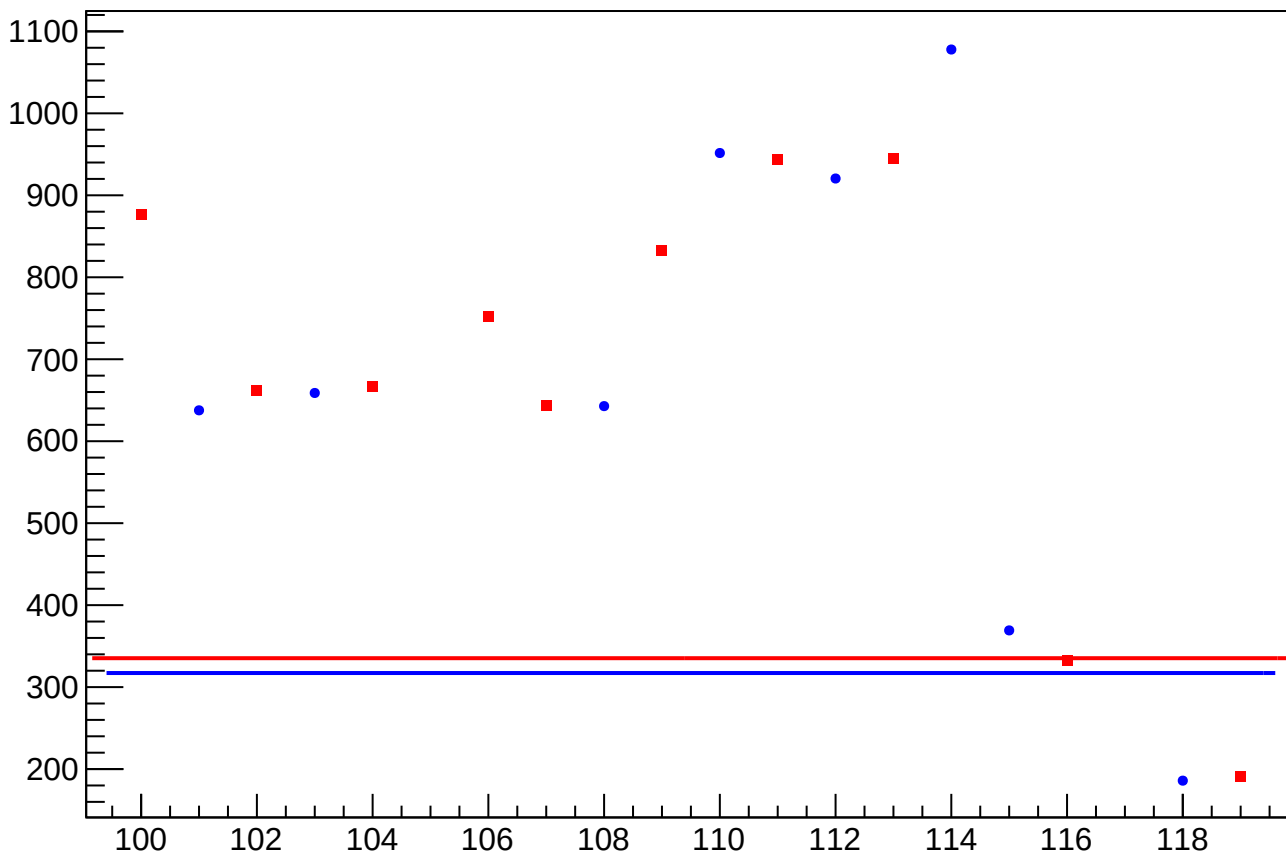
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 101.024+/-147.520  $\chi^2/\text{NDF}$ : 8.9/17

- 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: 317.185+/-0.152  $\chi^2/\text{NDF}$ : 2282200.6/7

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

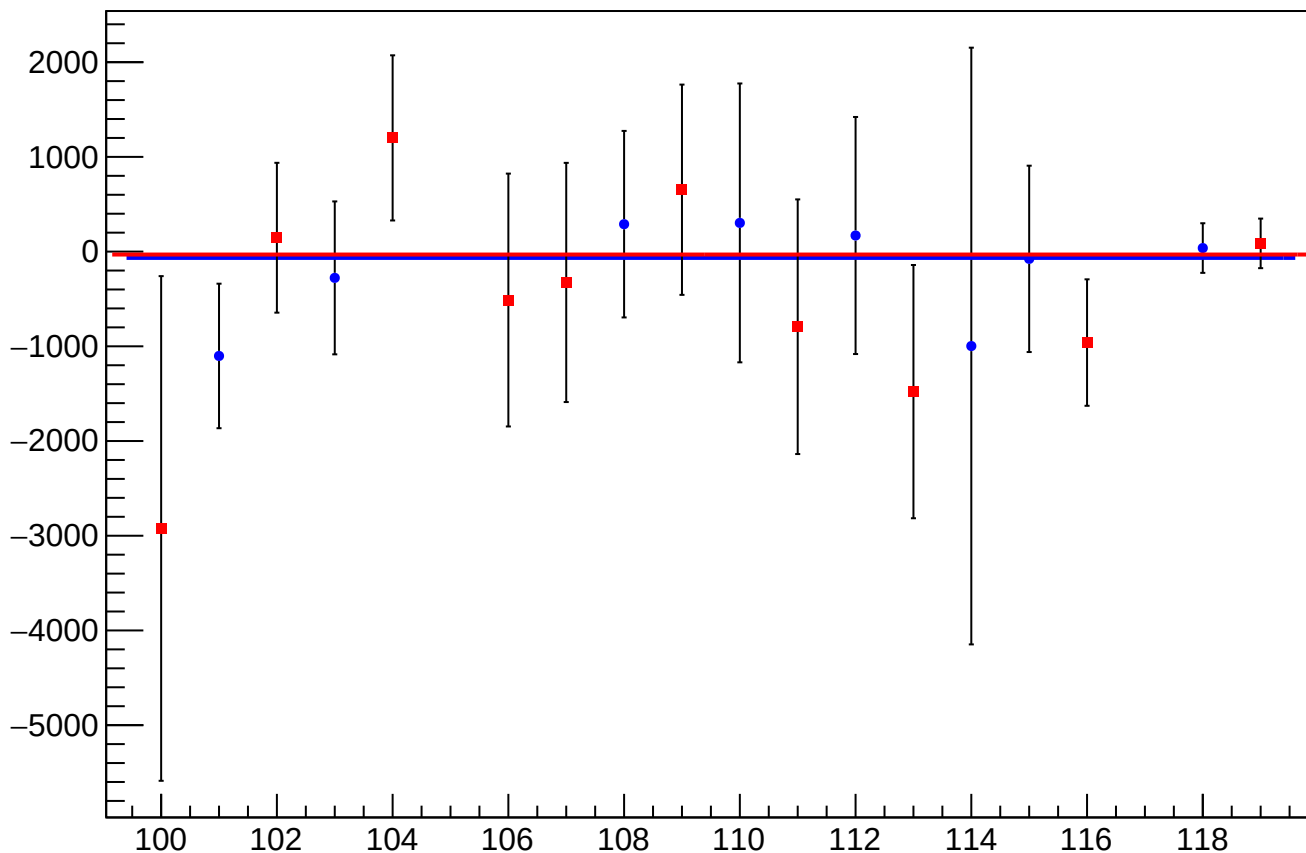
Right Out: 335.279+/-0.144  $\chi^2/\text{NDF}$ : 2764375.4/9

All: 326.718+/-0.104  $\chi^2/\text{NDF}$ : 5054076.7/17

- 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\_sam\_37\_26\_dd\_mean vs Slug



Right In:  $-66.574 \pm 217.712$   $\chi^2/\text{NDF}$ : 2.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-31.008 \pm 208.459$   $\chi^2/\text{NDF}$ : 7.4/9

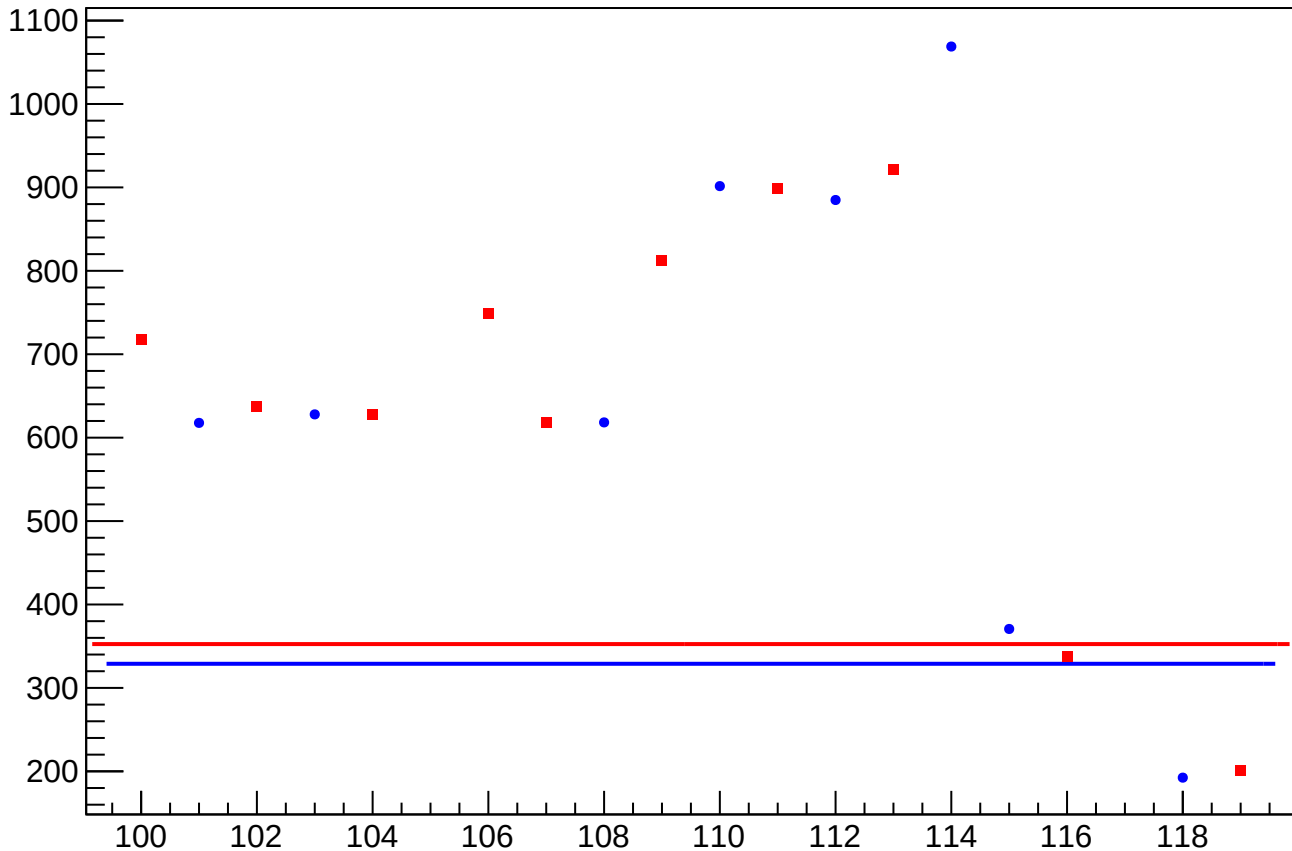
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-48.019 \pm 150.568$   $\chi^2/\text{NDF}$ : 9.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 328.920+/-0.154  $\chi^2/\text{NDF}$ : 2088125.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 352.545+/-0.147  $\chi^2/\text{NDF}$ : 2469989.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

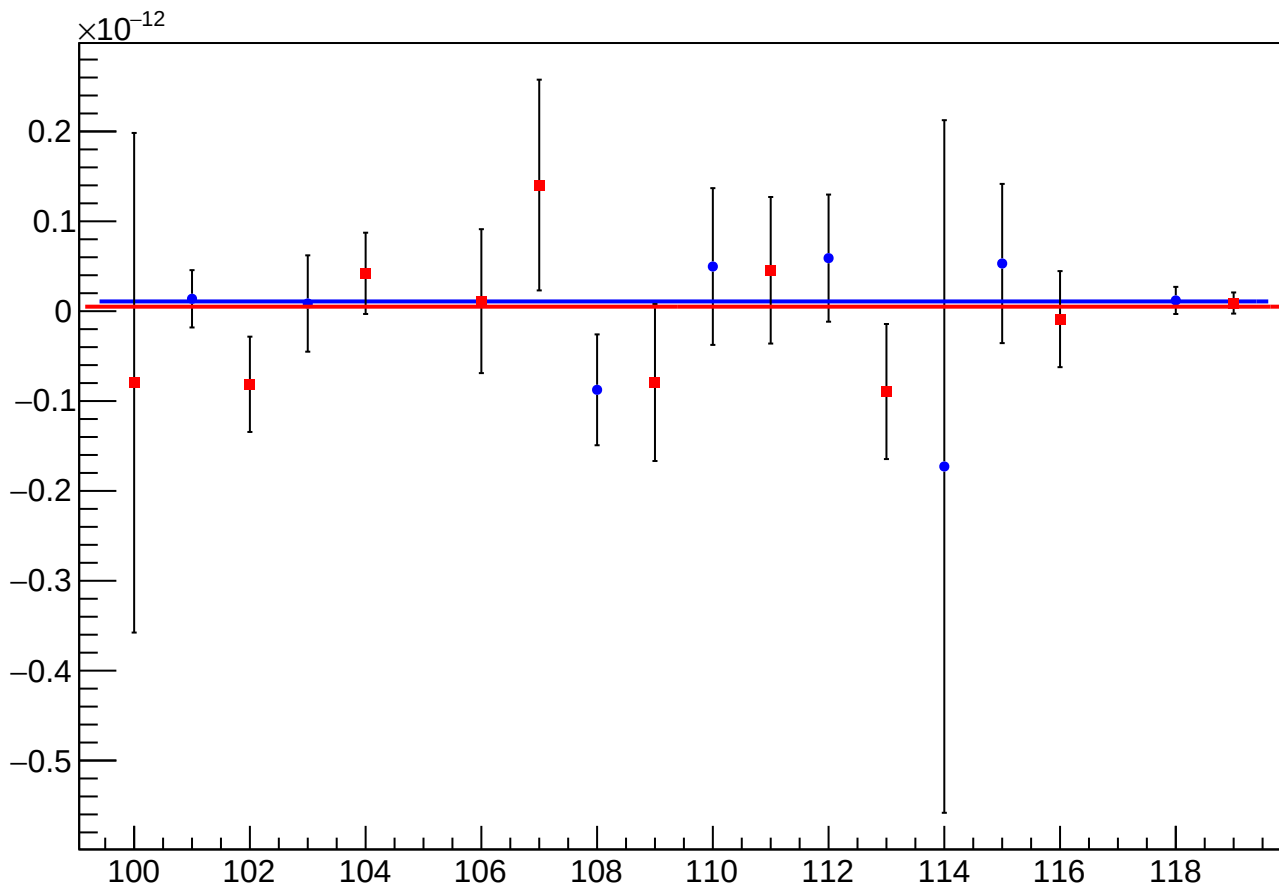
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 341.245+/-0.106  $\chi^2/\text{NDF}$ : 4570401.2/17

- 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: 3.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.7/9

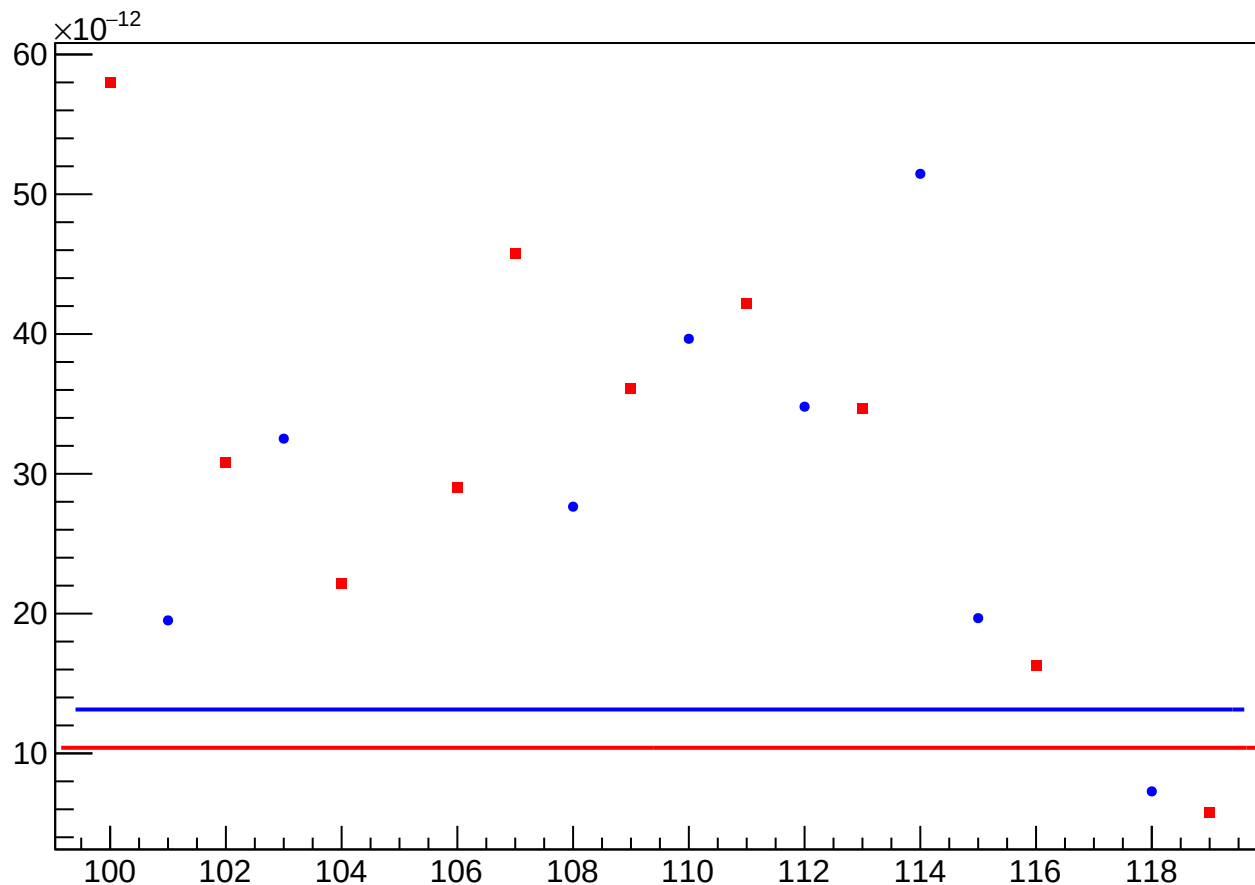
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.5/17

- 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  $\chi^2/\text{NDF}$ : 1156450.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1800561.2/9

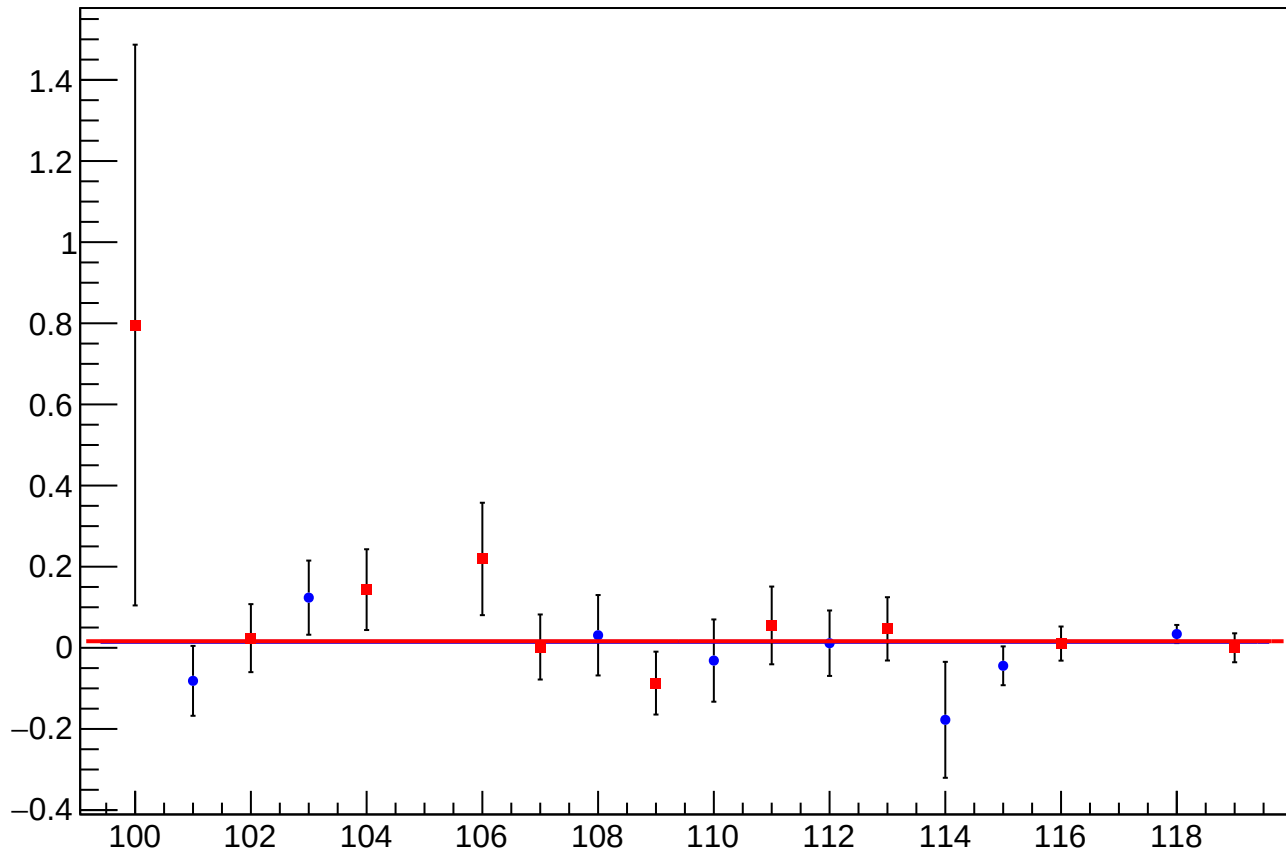
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3013675.4/17

- 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: 0.015 $\pm$ 0.018  $\chi^2$ /NDF: 7.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.016 $\pm$ 0.021  $\chi^2$ /NDF: 7.4/9

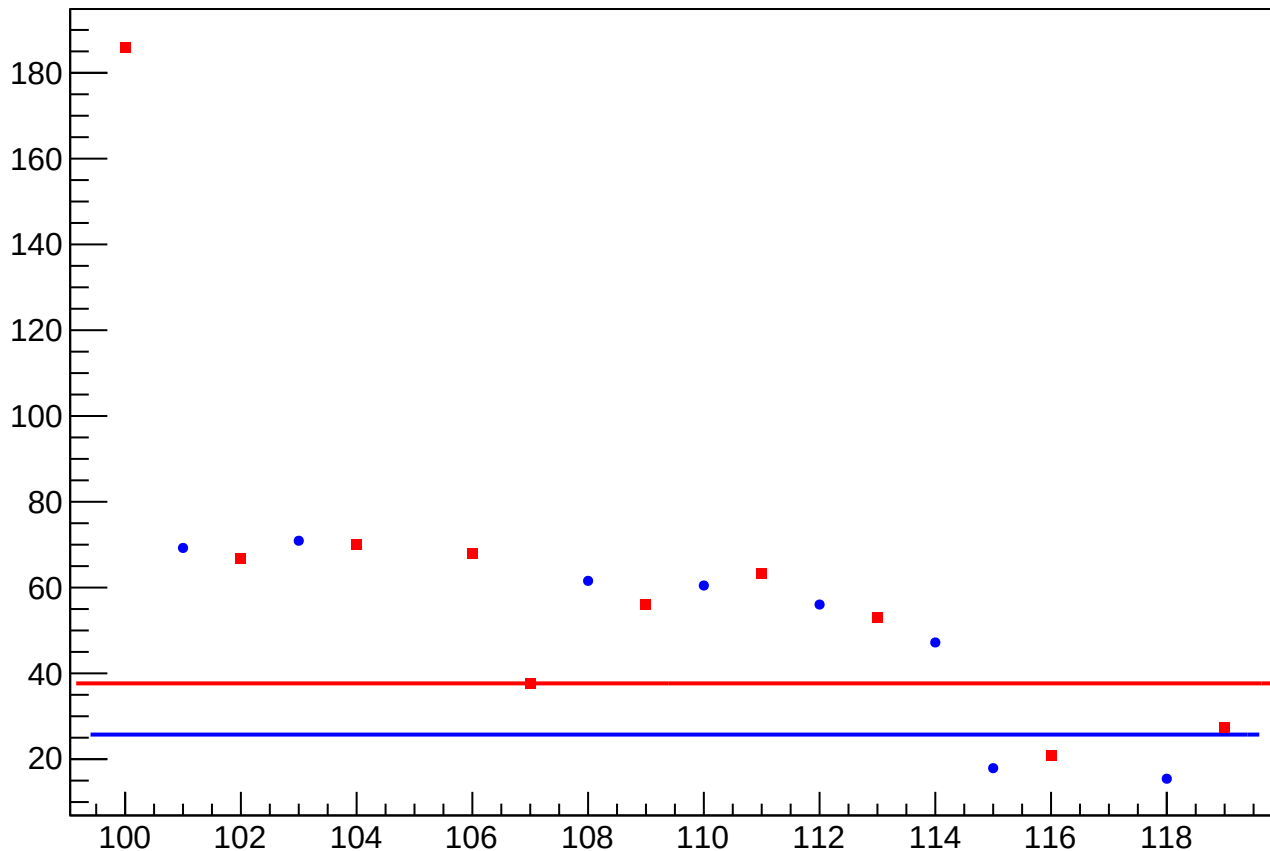
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.014  $\chi^2$ /NDF: 14.4/17

- 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: 25.730+/-0.013  $\chi^2/\text{NDF}$ : 2300628.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.665+/-0.015  $\chi^2/\text{NDF}$ : 1459148.4/9

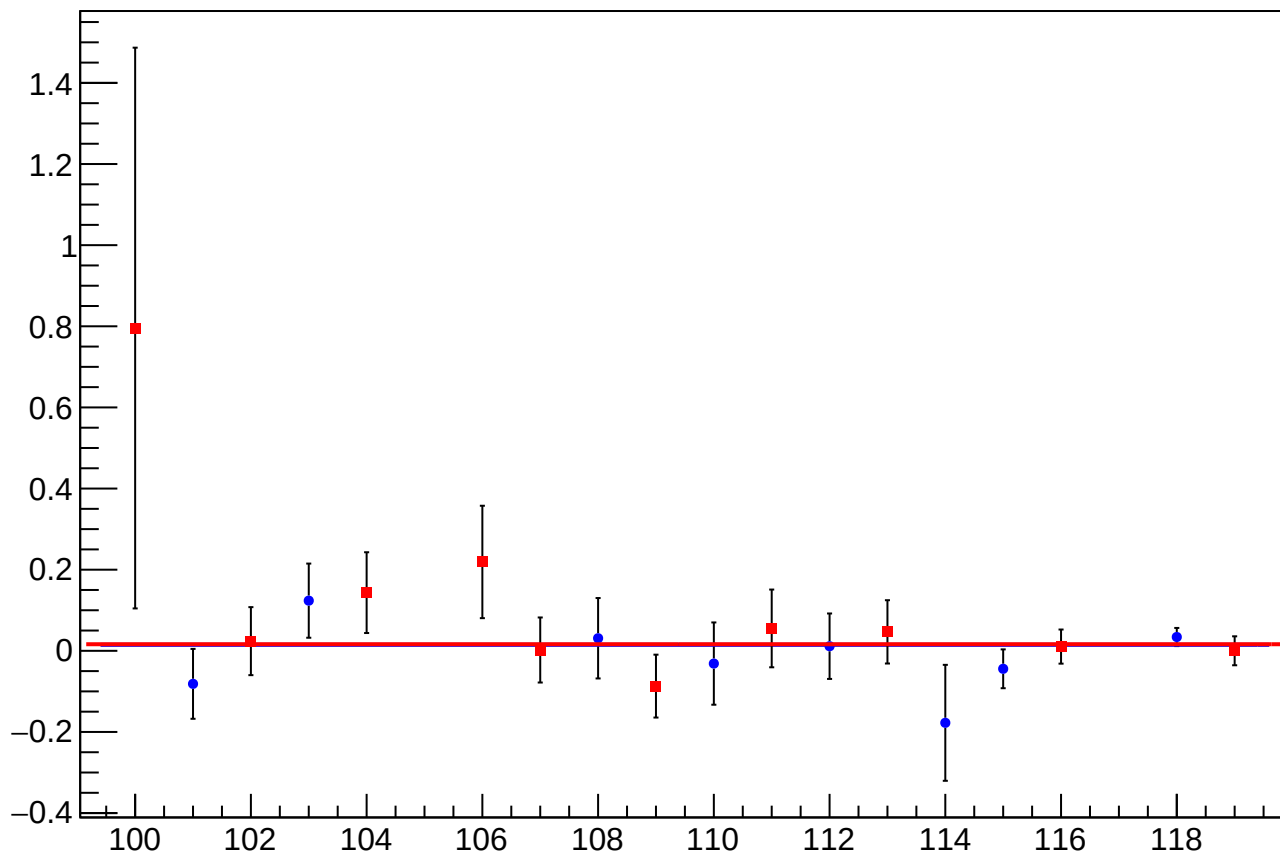
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.747+/-0.010  $\chi^2/\text{NDF}$ : 4130233.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.015 $\pm$ 0.018  $\chi^2$ /NDF: 7.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.016 $\pm$ 0.021  $\chi^2$ /NDF: 7.4/9

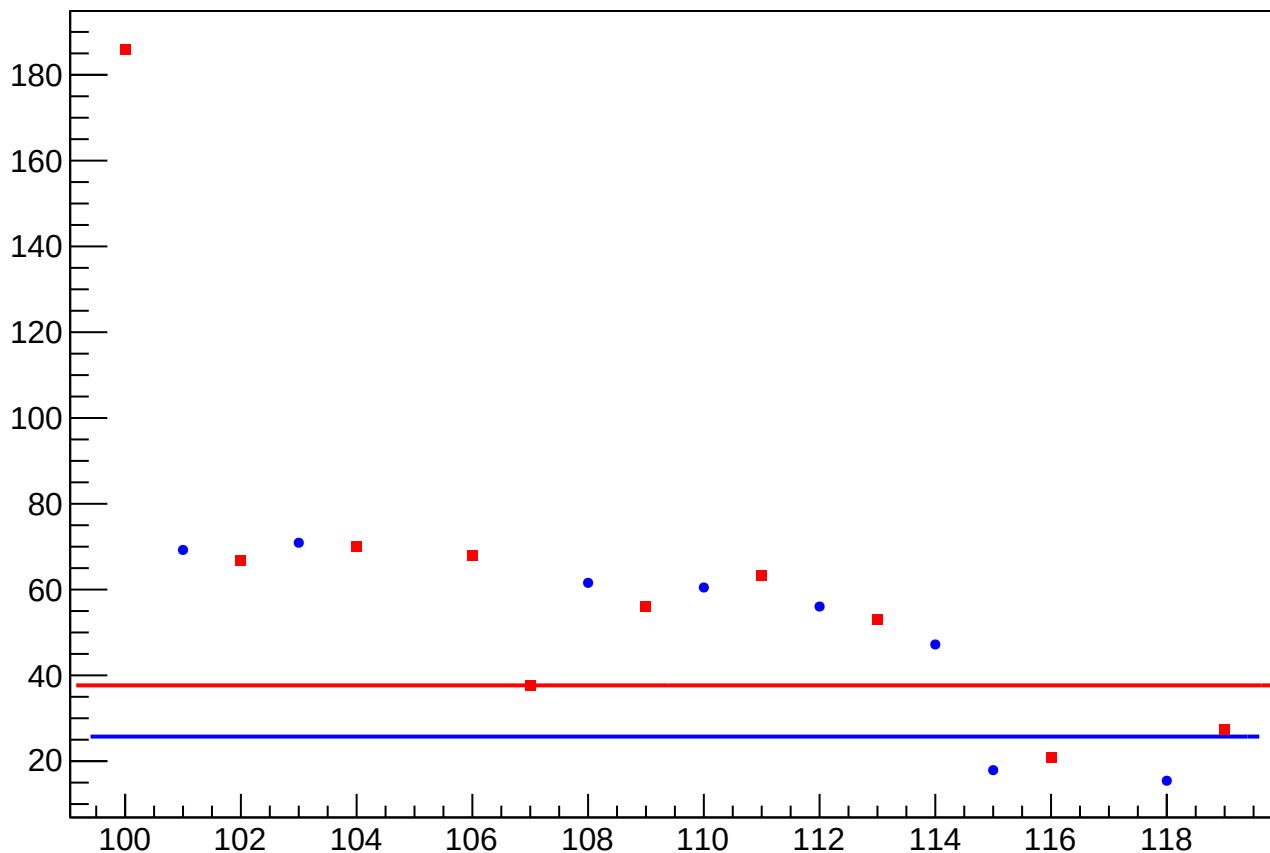
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.014  $\chi^2$ /NDF: 14.4/17

- 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: 25.730+/-0.013  $\chi^2/\text{NDF}$ : 2300628.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.665+/-0.015  $\chi^2/\text{NDF}$ : 1459148.4/9

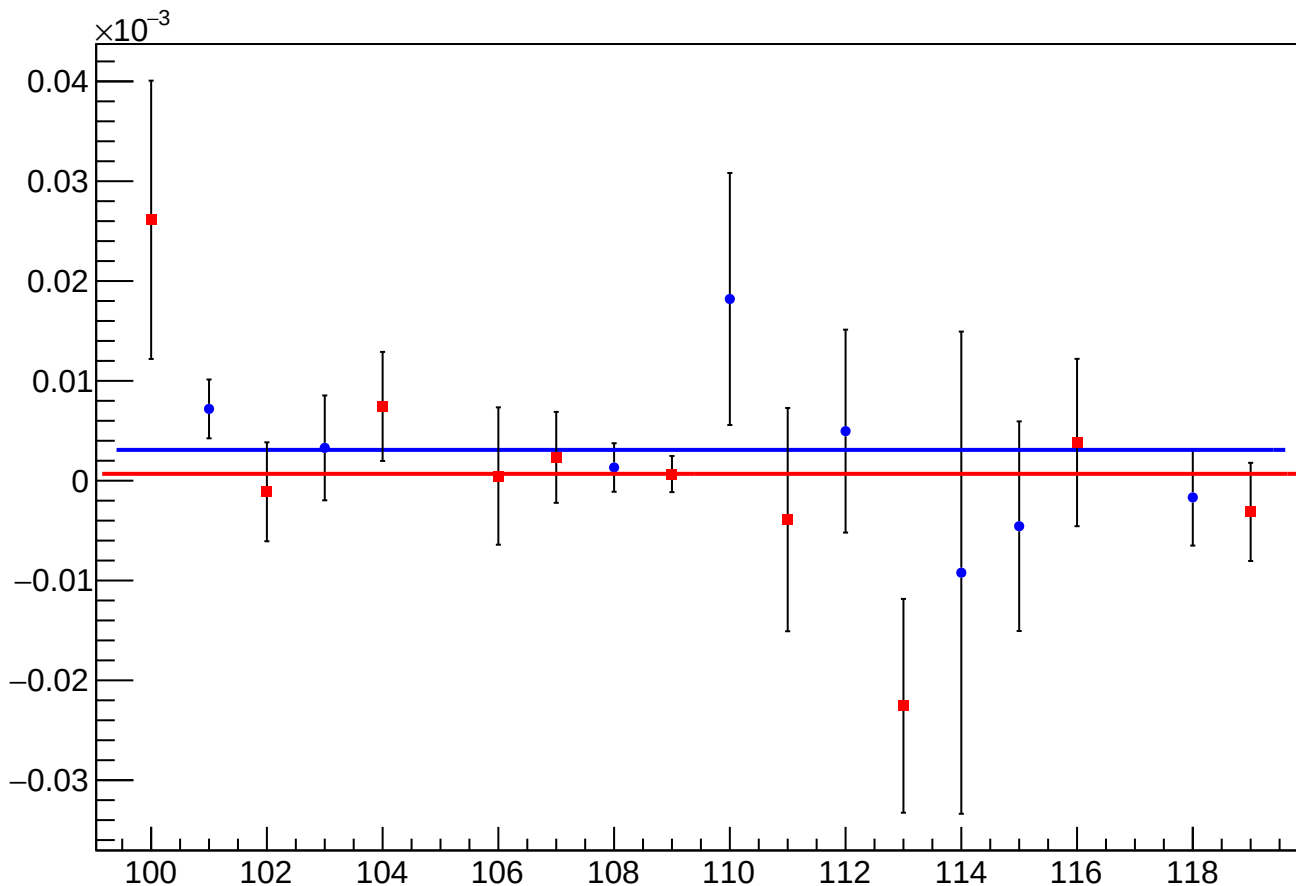
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.747+/-0.010  $\chi^2/\text{NDF}$ : 4130233.7/17

- 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: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.7/9

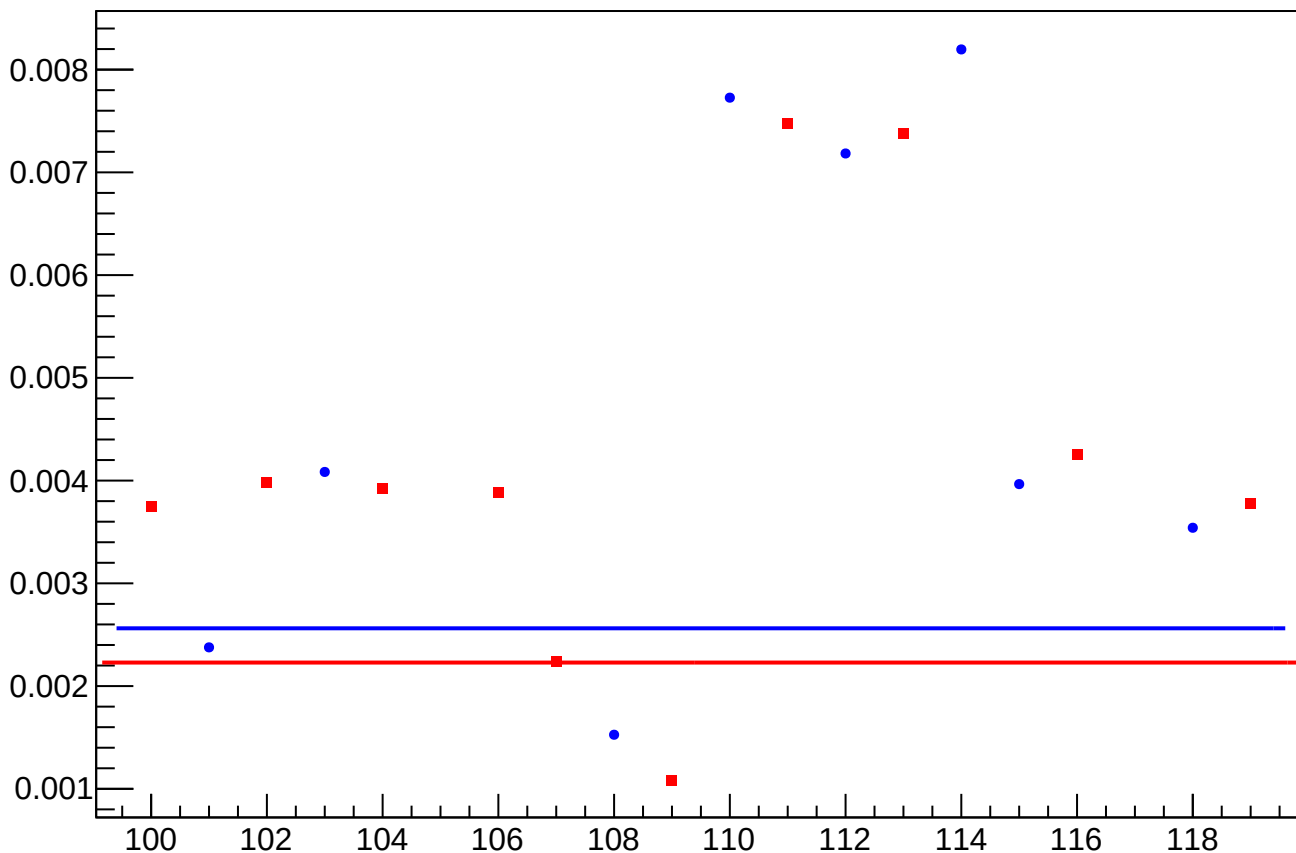
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.7/17

- 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: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1514490.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2606975.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

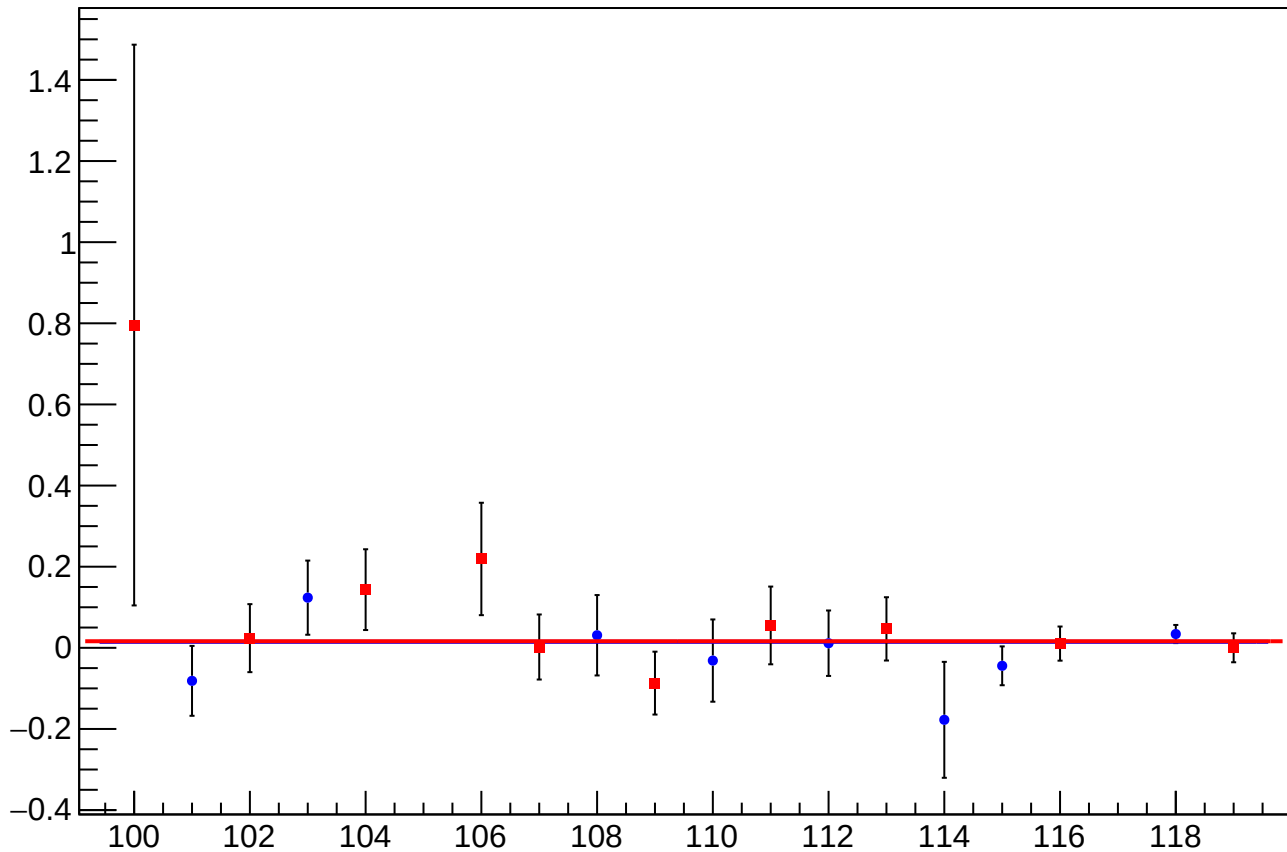
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4171286.0/17

- 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: 0.015 $\pm$ 0.018  $\chi^2$ /NDF: 7.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.016 $\pm$ 0.021  $\chi^2$ /NDF: 7.4/9

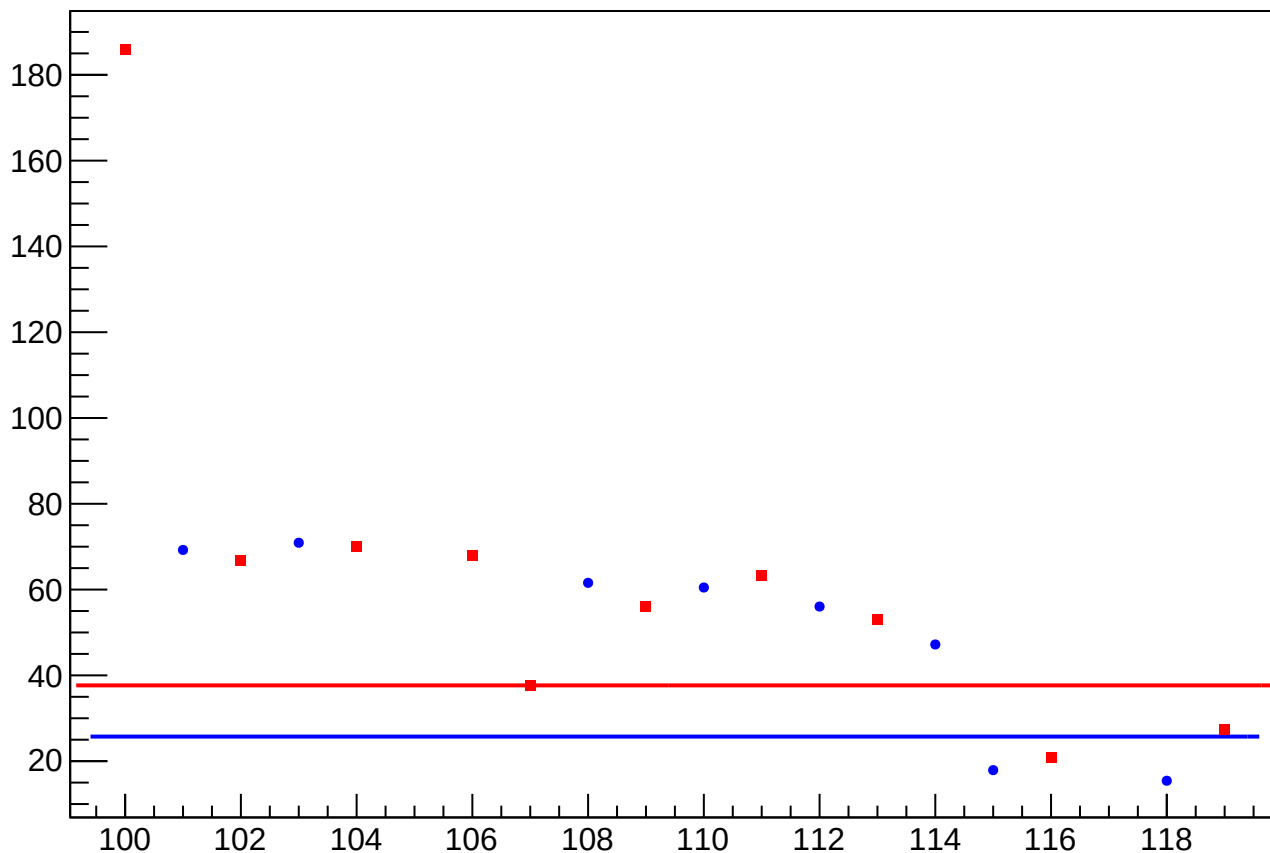
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.014  $\chi^2$ /NDF: 14.4/17

- 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: 25.728+/-0.013  $\chi^2/\text{NDF}$ : 2300742.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.665+/-0.015  $\chi^2/\text{NDF}$ : 1459030.6/9

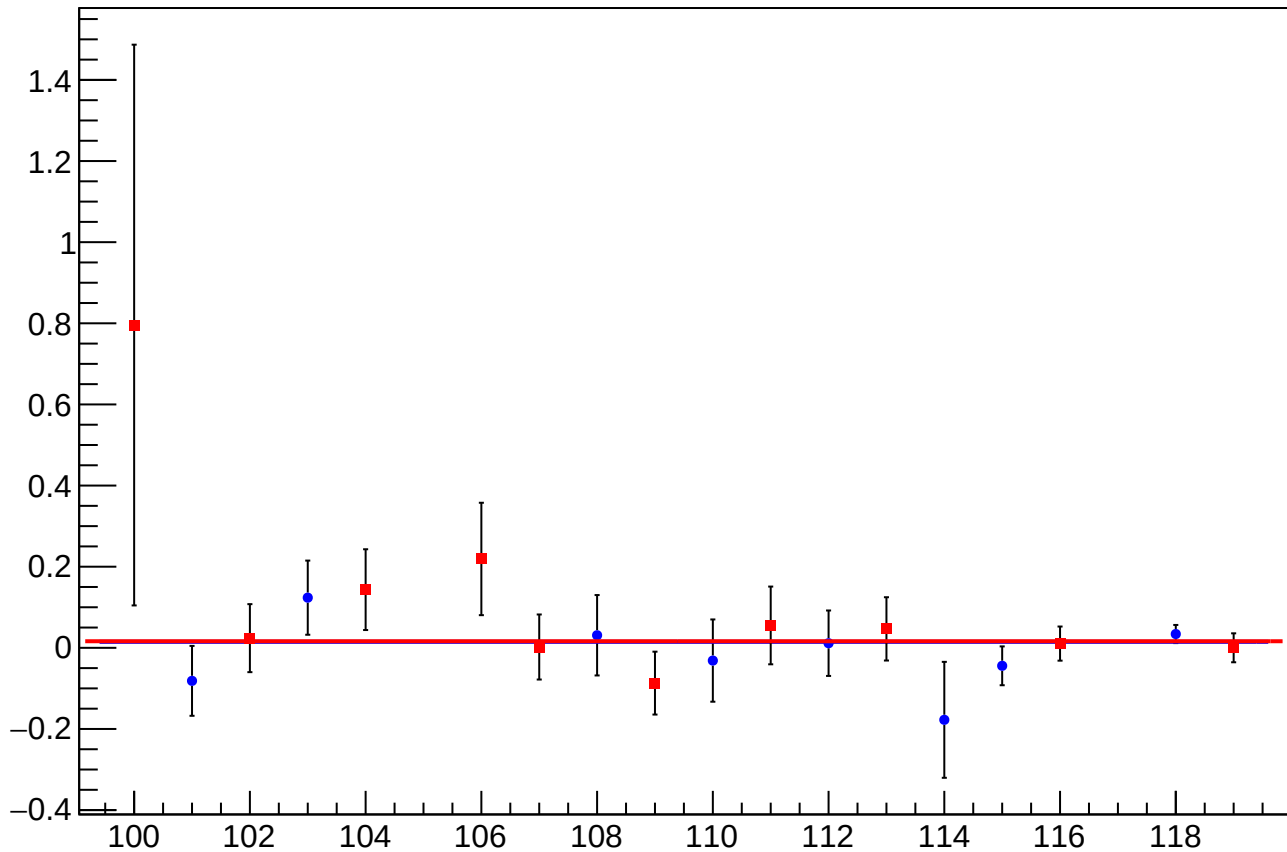
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.746+/-0.010  $\chi^2/\text{NDF}$ : 4130358.2/17

- 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: 0.015 $\pm$ 0.018  $\chi^2$ /NDF: 7.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.016 $\pm$ 0.021  $\chi^2$ /NDF: 7.4/9

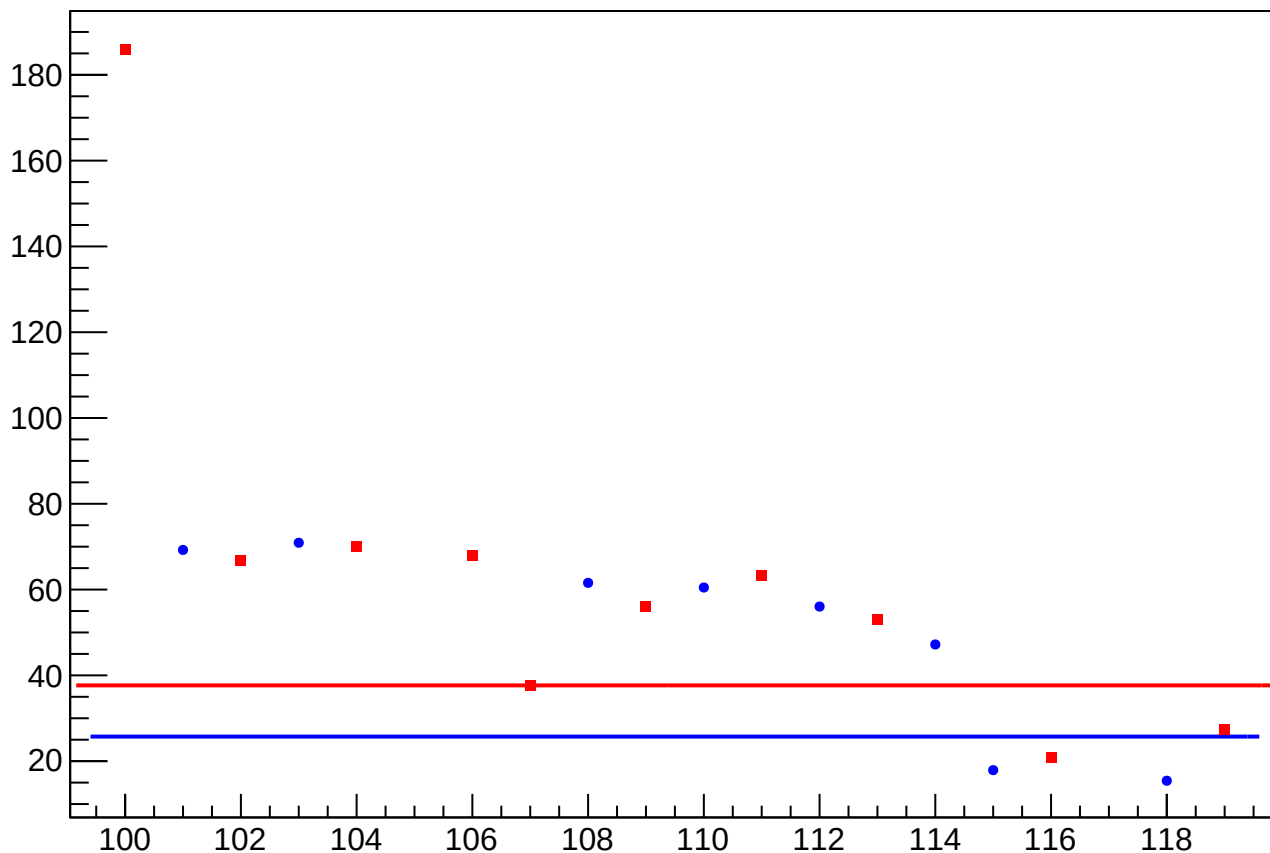
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.014  $\chi^2$ /NDF: 14.4/17

- 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: 25.728+/-0.013  $\chi^2/\text{NDF}$ : 2300742.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.665+/-0.015  $\chi^2/\text{NDF}$ : 1459030.6/9

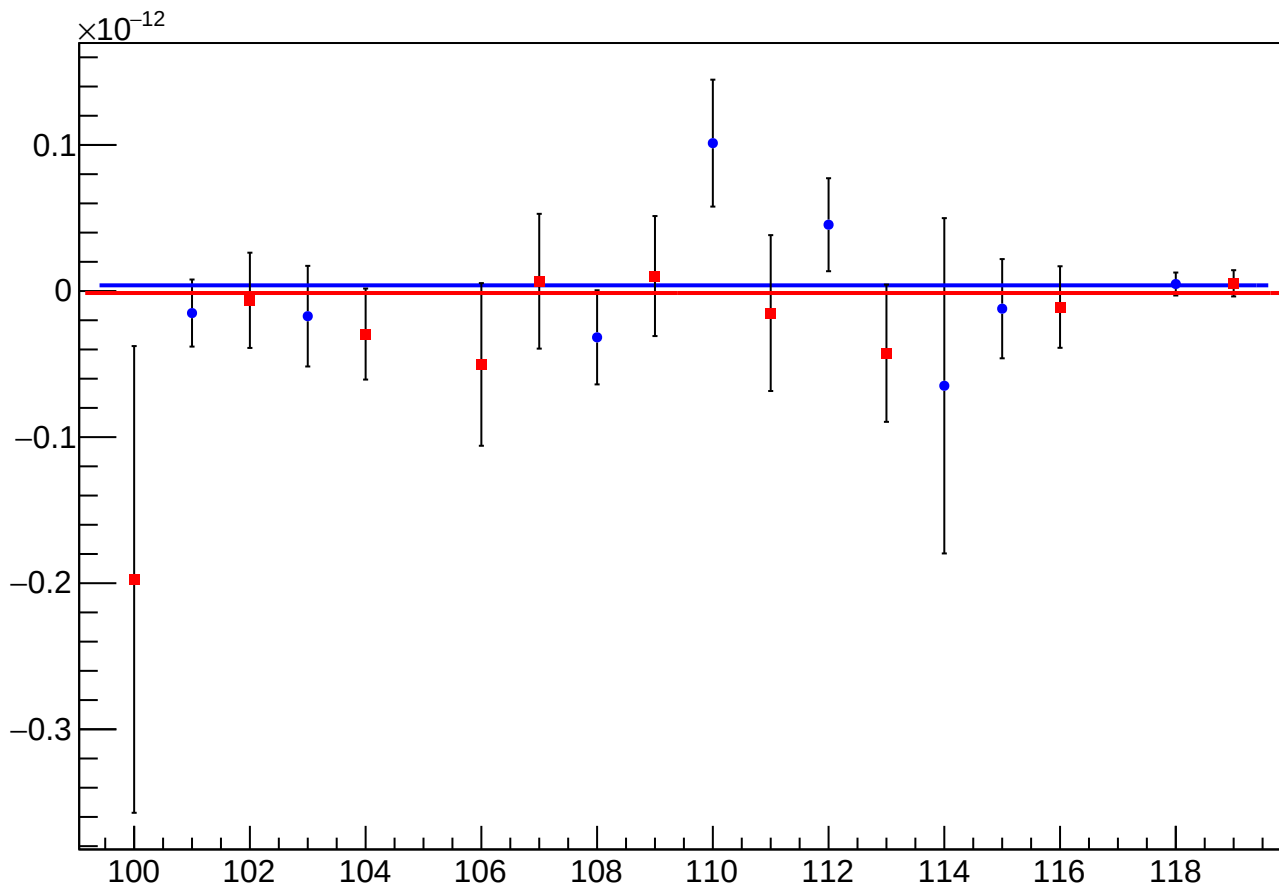
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.746+/-0.010  $\chi^2/\text{NDF}$ : 4130358.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 9.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.7/9

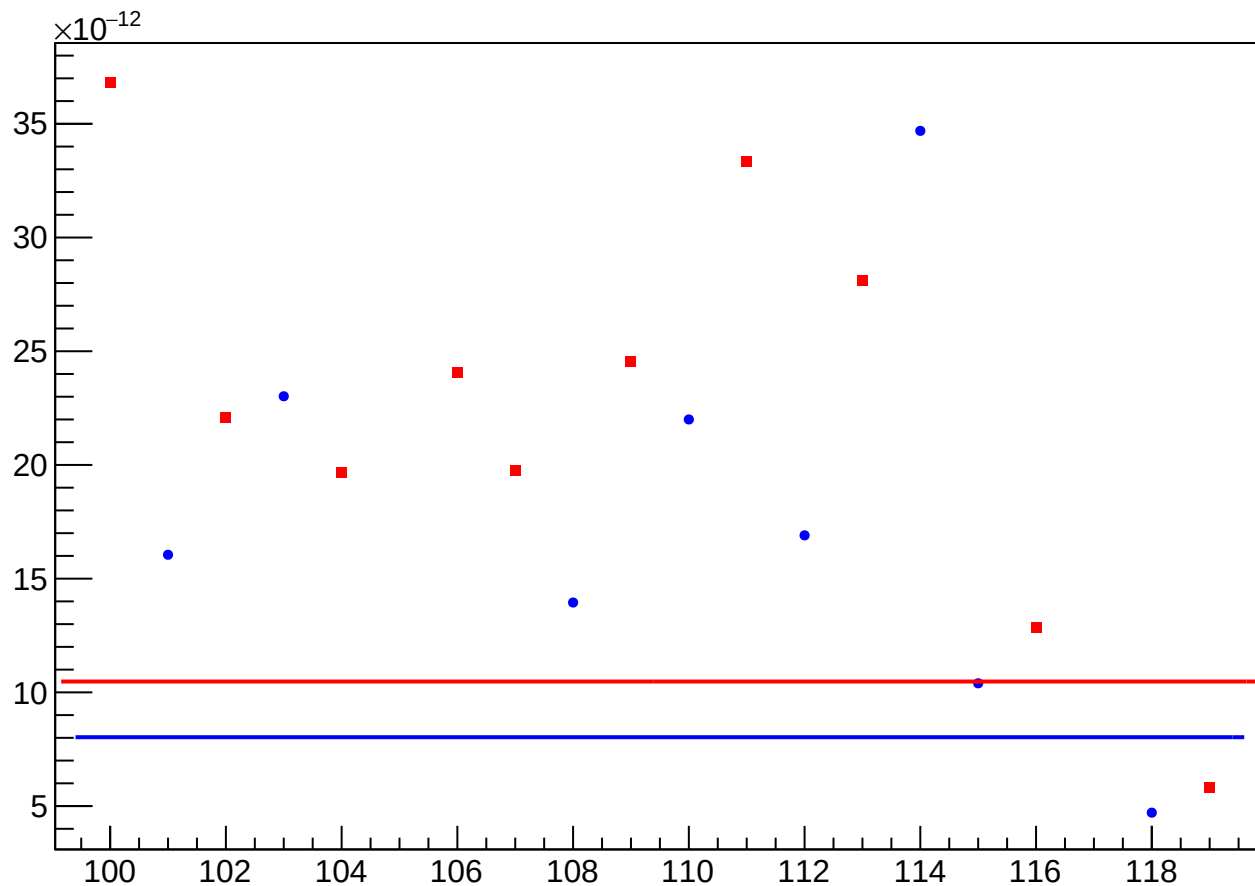
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.6/17

- 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  $\chi^2/\text{NDF}$ : 1527938.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2117782.7/9

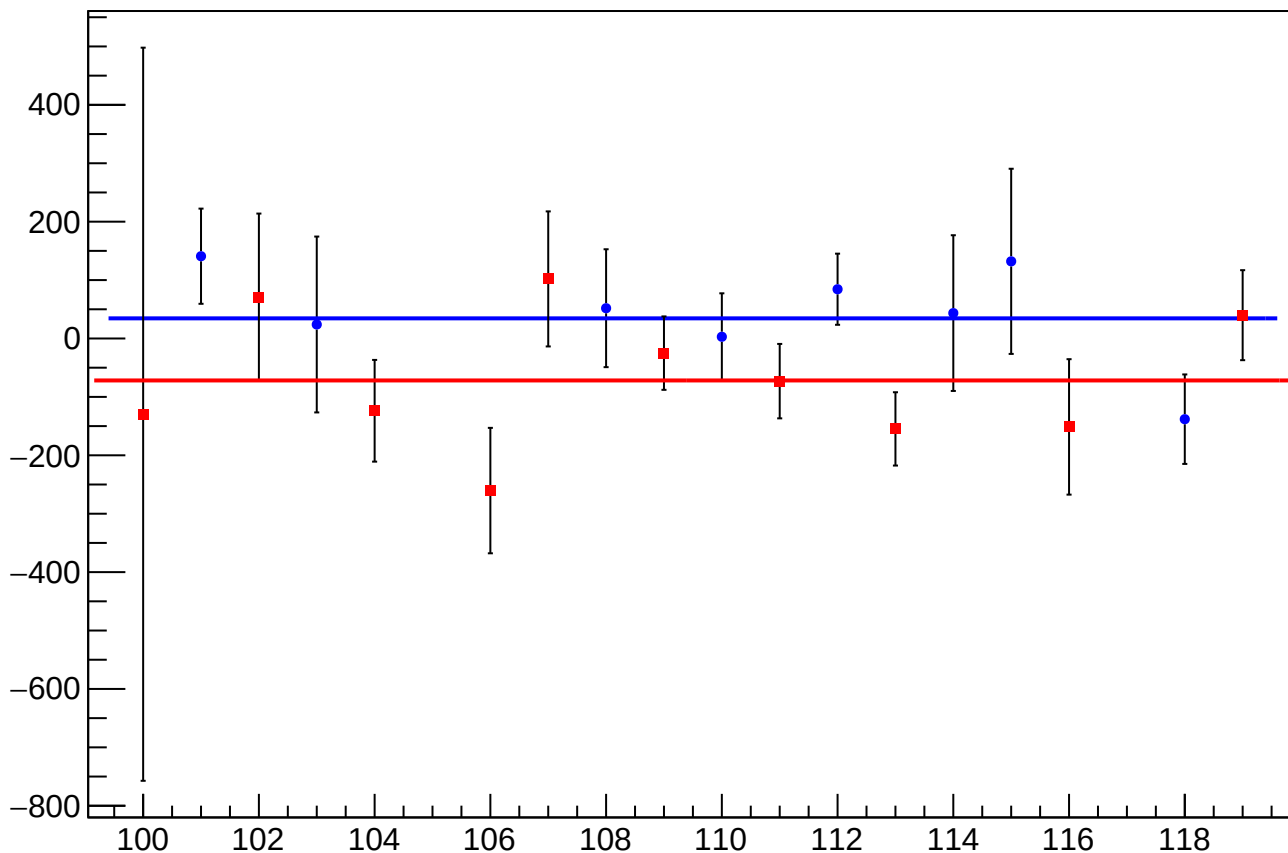
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3764846.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 34.465+/-31.470  $\chi^2/\text{NDF}$ : 8.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -71.841+/-27.308  $\chi^2/\text{NDF}$ : 11.6/9

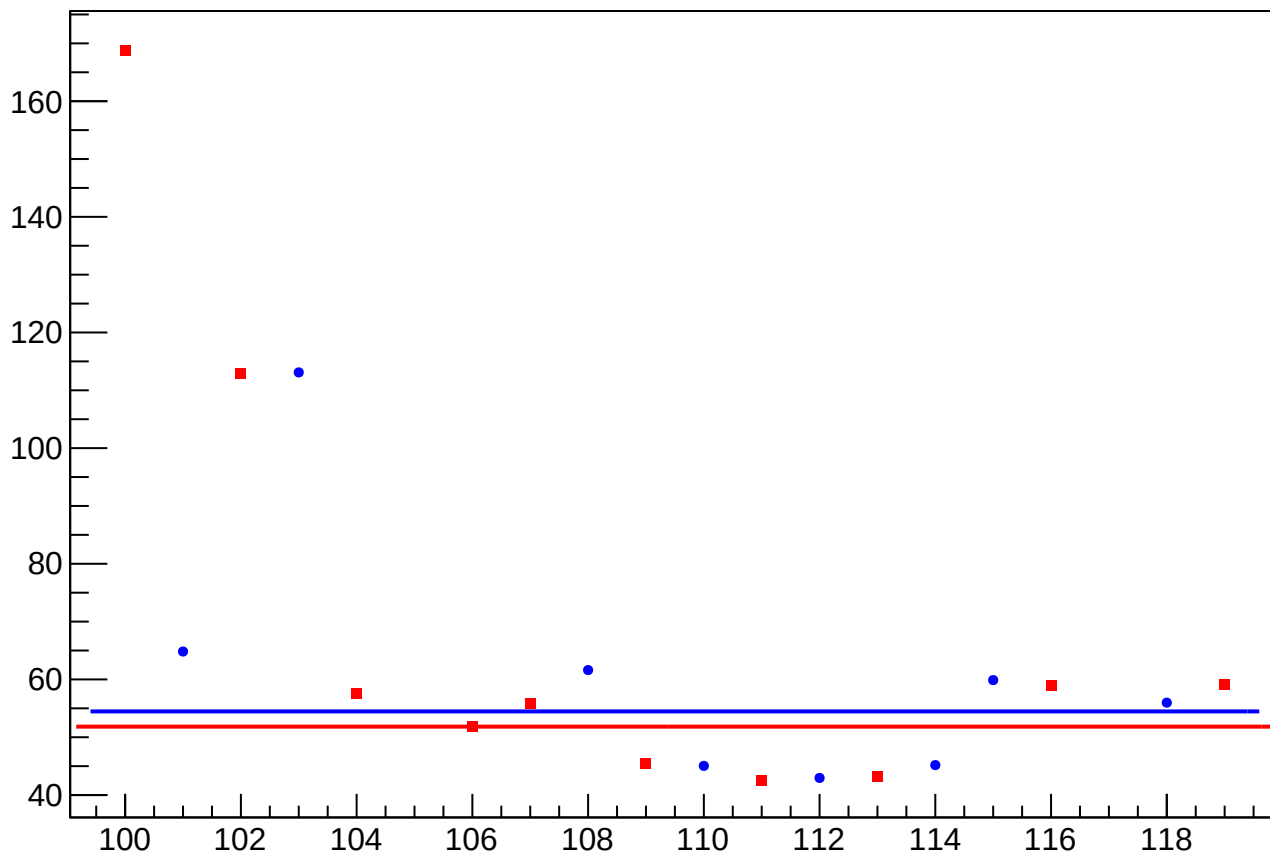
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -26.178+/-20.625  $\chi^2/\text{NDF}$ : 26.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 54.466+/-0.022  $\chi^2/\text{NDF}$ : 461874.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 51.833+/-0.019  $\chi^2/\text{NDF}$ : 571316.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

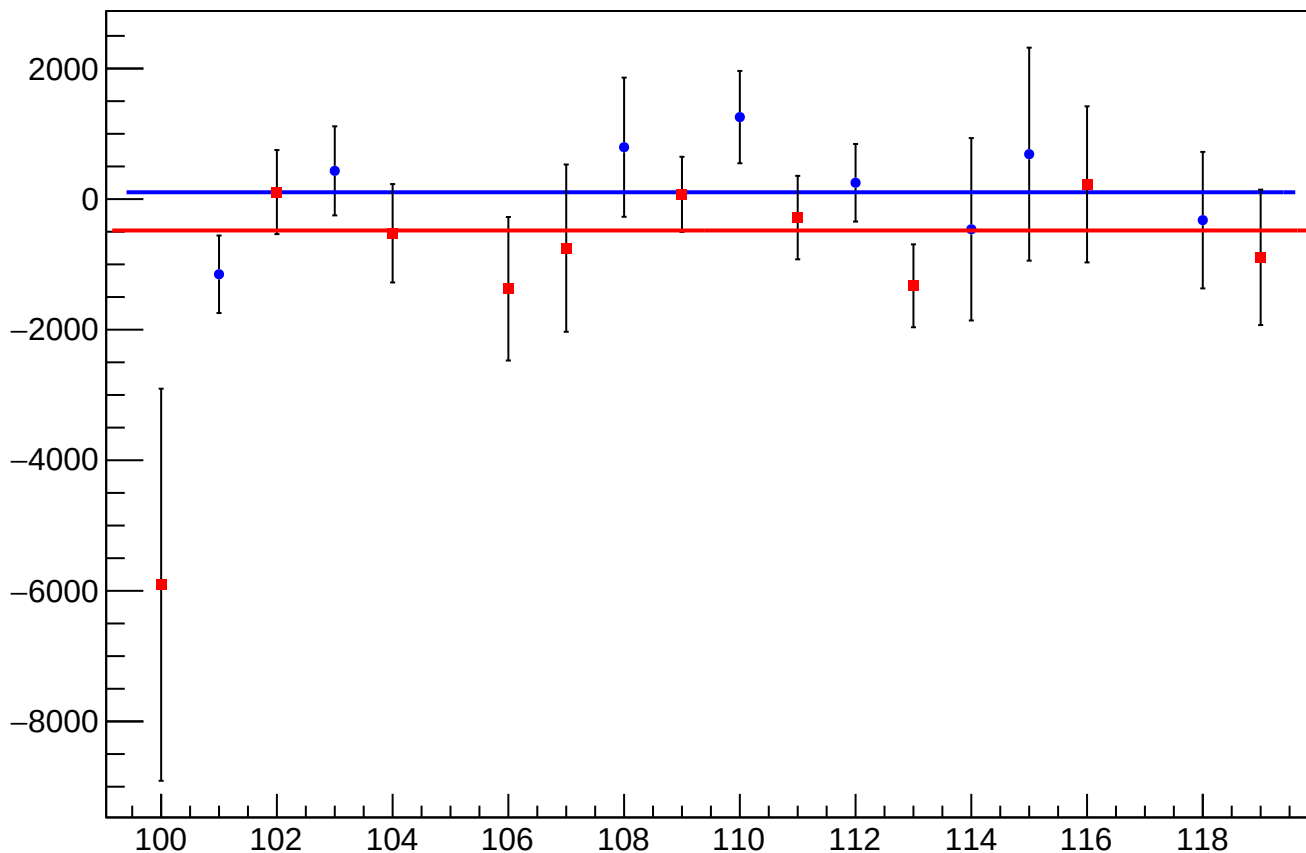
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52.964+/-0.015  $\chi^2/\text{NDF}$ : 1041173.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_avg\_reg\_correction\_mean vs Slug



Right In: 104.678 $\pm$ 282.803  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -480.543 $\pm$ 255.671  $\chi^2$ /NDF: 8.1/9

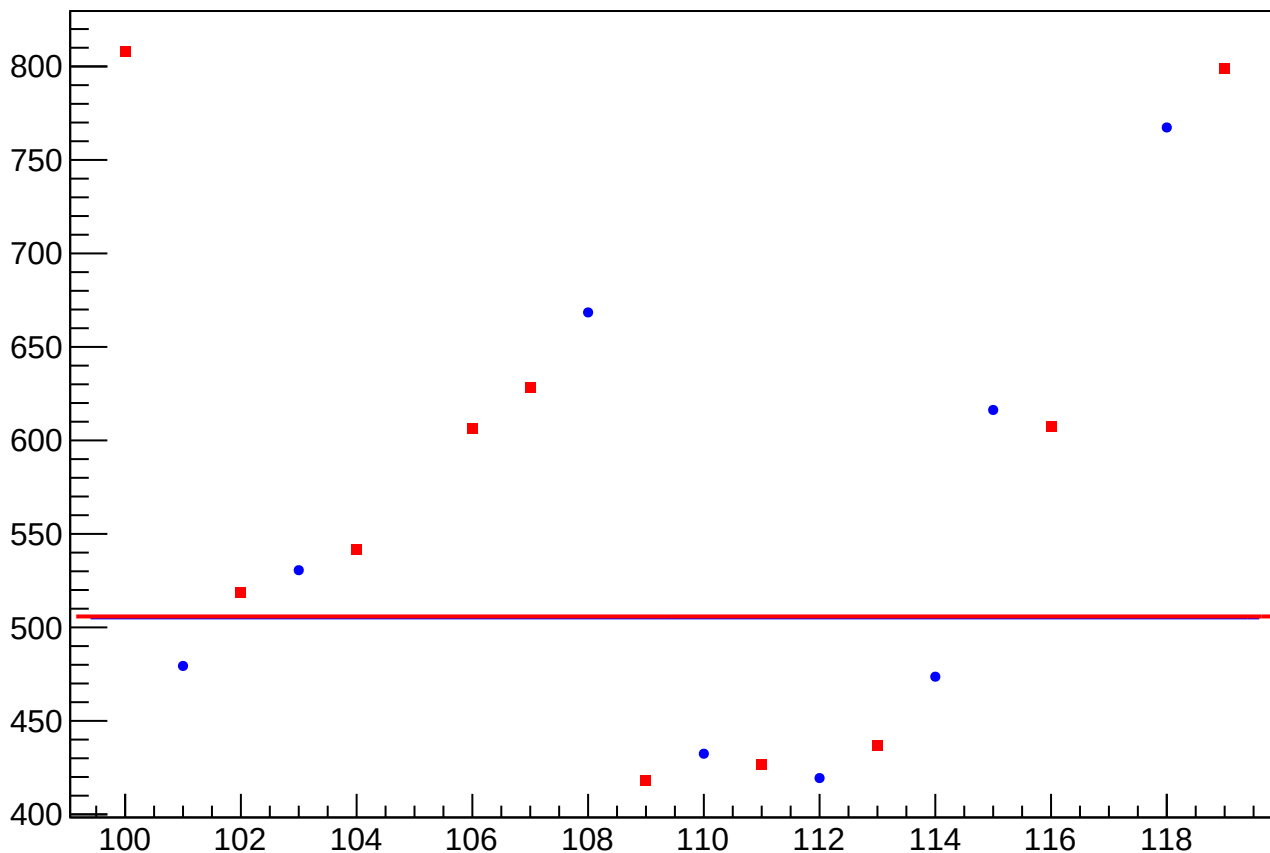
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -217.345 $\pm$ 189.655  $\chi^2$ /NDF: 18.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_reg\_correction\_rms vs Slug



Right In: 505.363 $\pm$ 0.200  $\chi^2$ /NDF: 252386.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 505.844 $\pm$ 0.181  $\chi^2$ /NDF: 335161.0/9

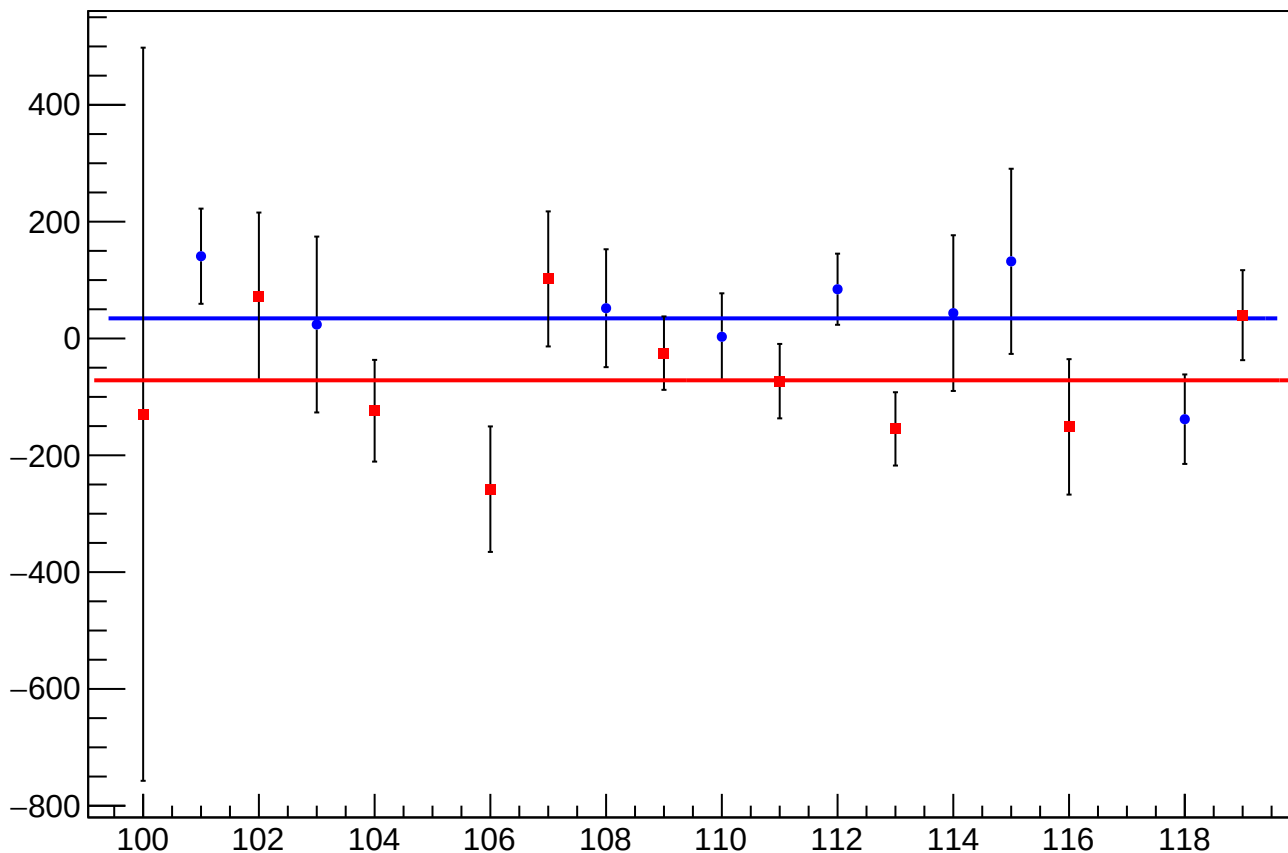
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 505.628 $\pm$ 0.134  $\chi^2$ /NDF: 587551.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_1357\_avg\_mean vs Slug



Right In:  $34.457 \pm 31.470$   $\chi^2/\text{NDF}$ : 8.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-71.611 \pm 27.309$   $\chi^2/\text{NDF}$ : 11.5/9

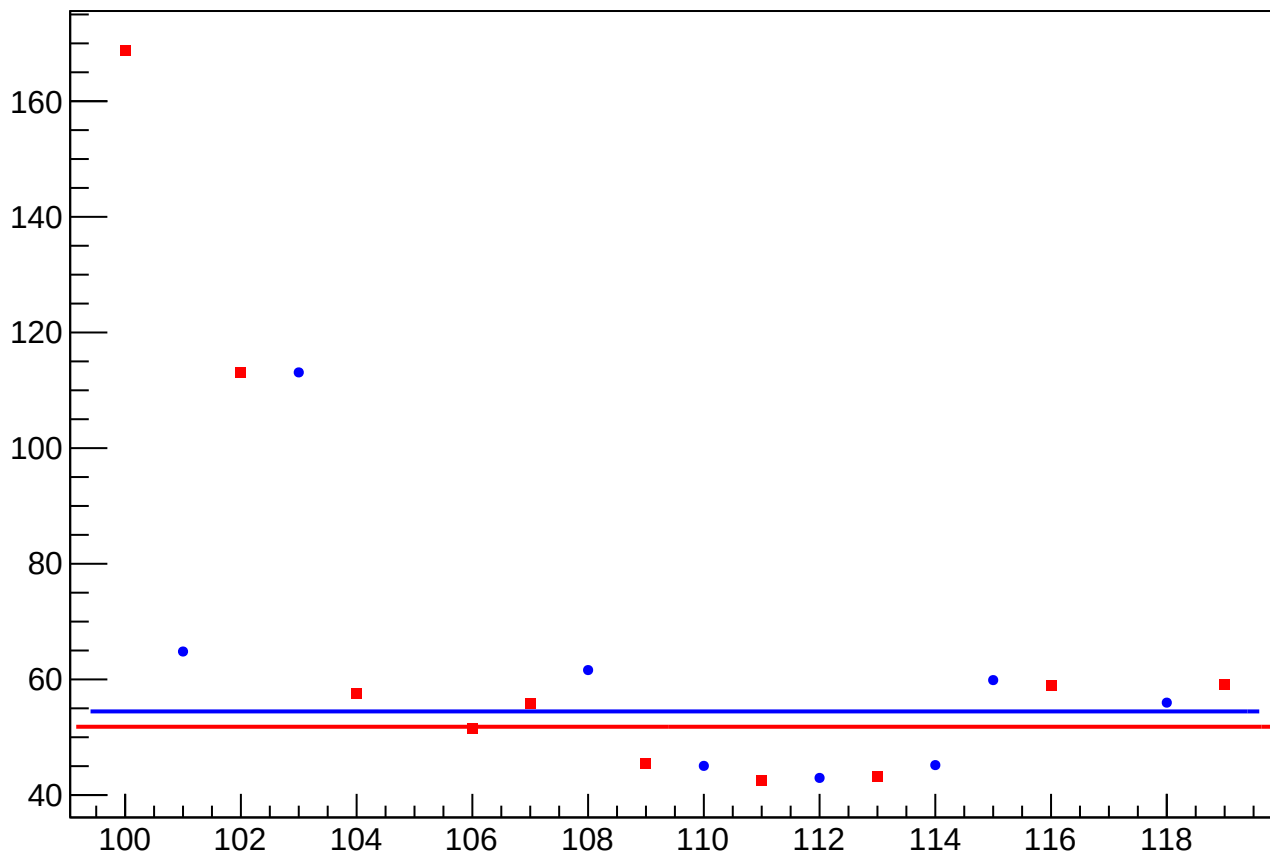
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-26.048 \pm 20.626$   $\chi^2/\text{NDF}$ : 26.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 54.466+/-0.022  $\chi^2/\text{NDF}$ : 461877.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 51.814+/-0.019  $\chi^2/\text{NDF}$ : 571565.8/9

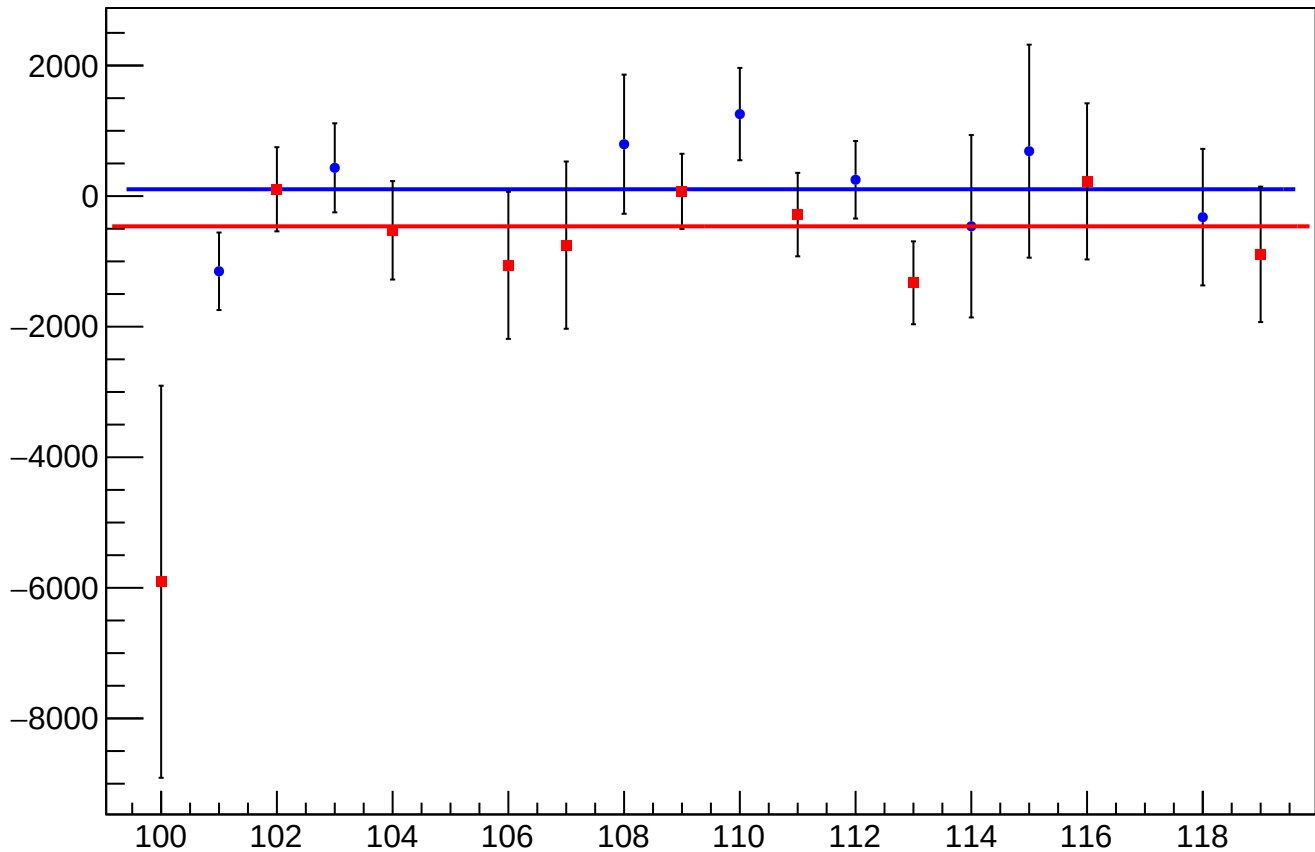
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52.953+/-0.015  $\chi^2/\text{NDF}$ : 1041546.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_cor\_correction\_mean vs Slug



Right In: 104.727 $\pm$ 282.808  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -462.735 $\pm$ 256.052  $\chi^2$ /NDF: 7.7/9

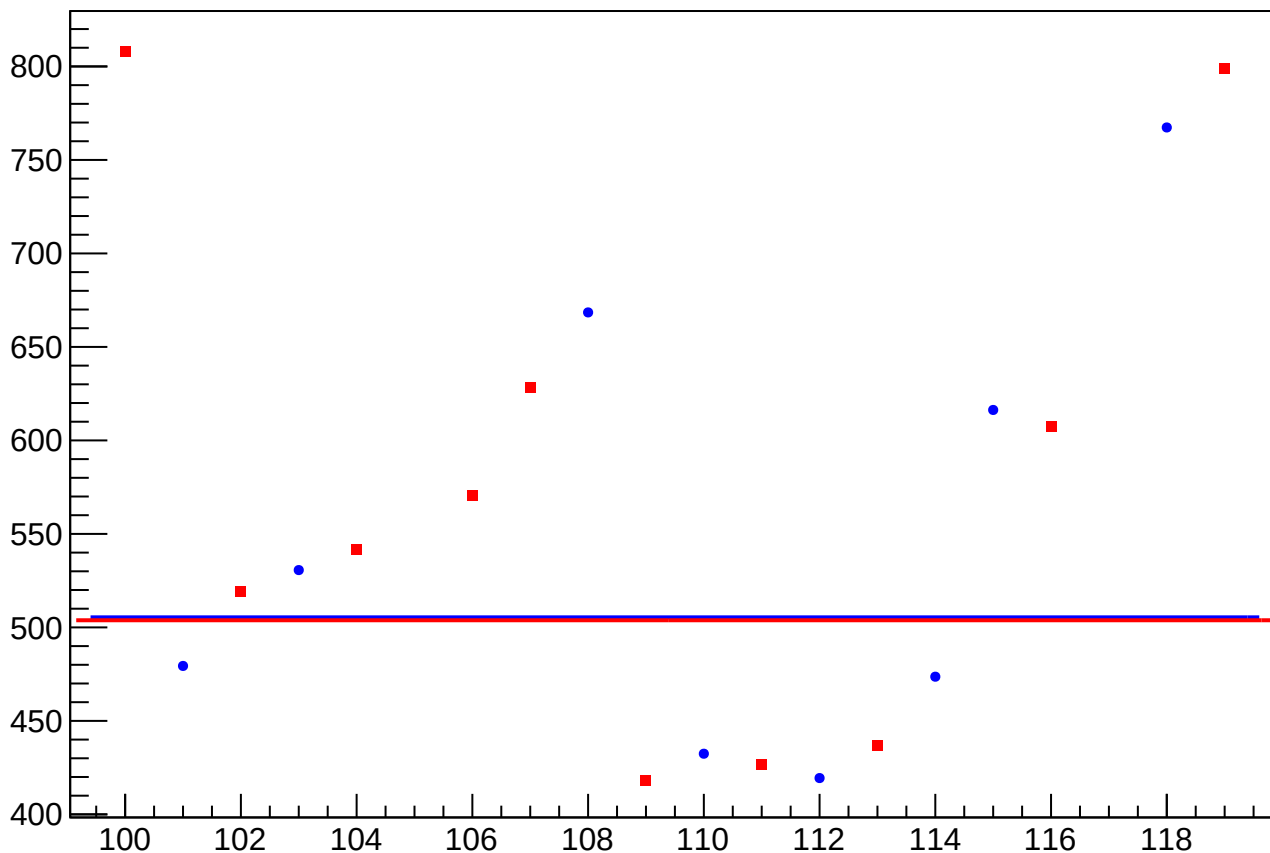
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -207.111 $\pm$ 189.812  $\chi^2$ /NDF: 18.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_cor\_correction\_rms vs Slug



Right In: 505.372 $\pm$ 0.200  $\chi^2$ /NDF: 252397.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 503.819 $\pm$ 0.181  $\chi^2$ /NDF: 325056.9/9

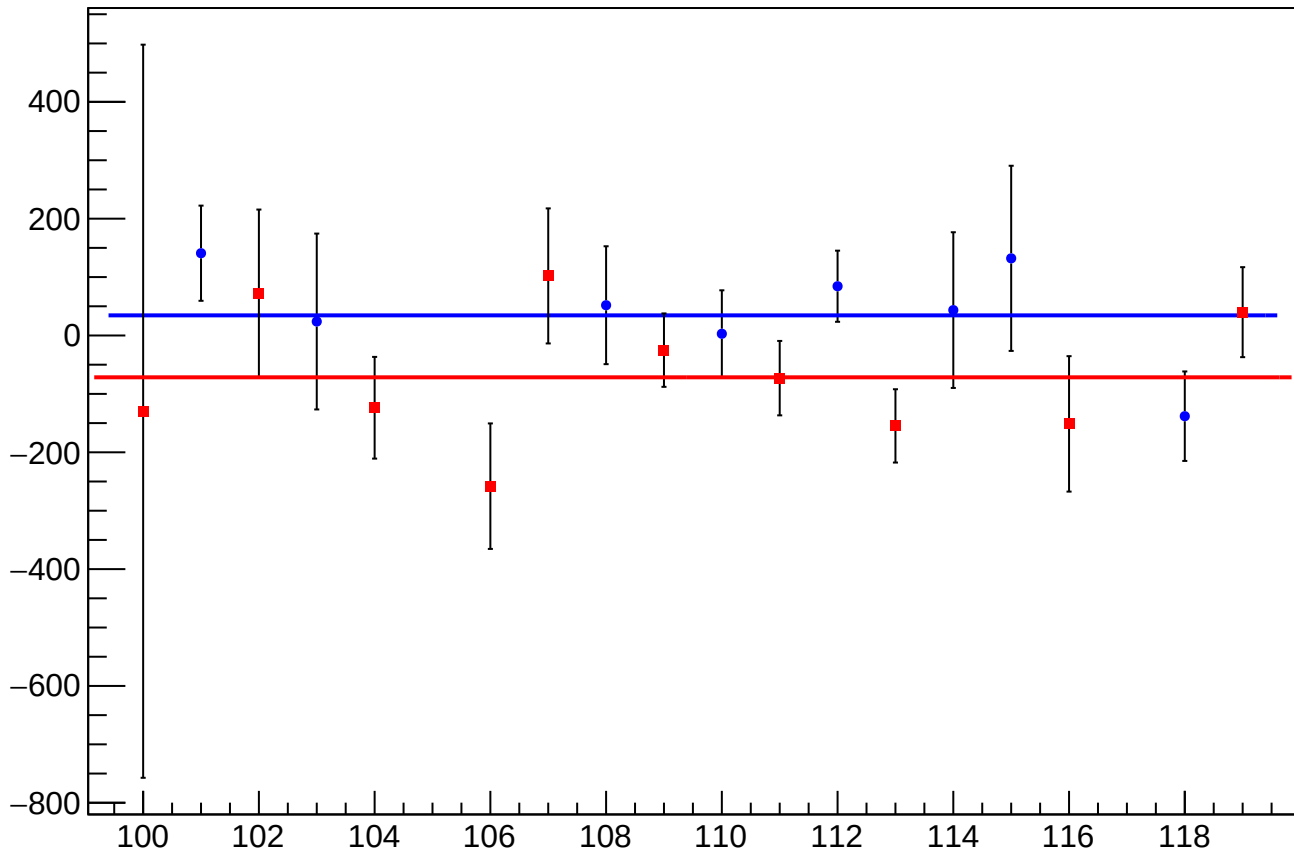
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 504.518 $\pm$ 0.134  $\chi^2$ /NDF: 577487.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 34.457+/-31.470  $\chi^2/\text{NDF}$ : 8.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -71.611+/-27.309  $\chi^2/\text{NDF}$ : 11.5/9

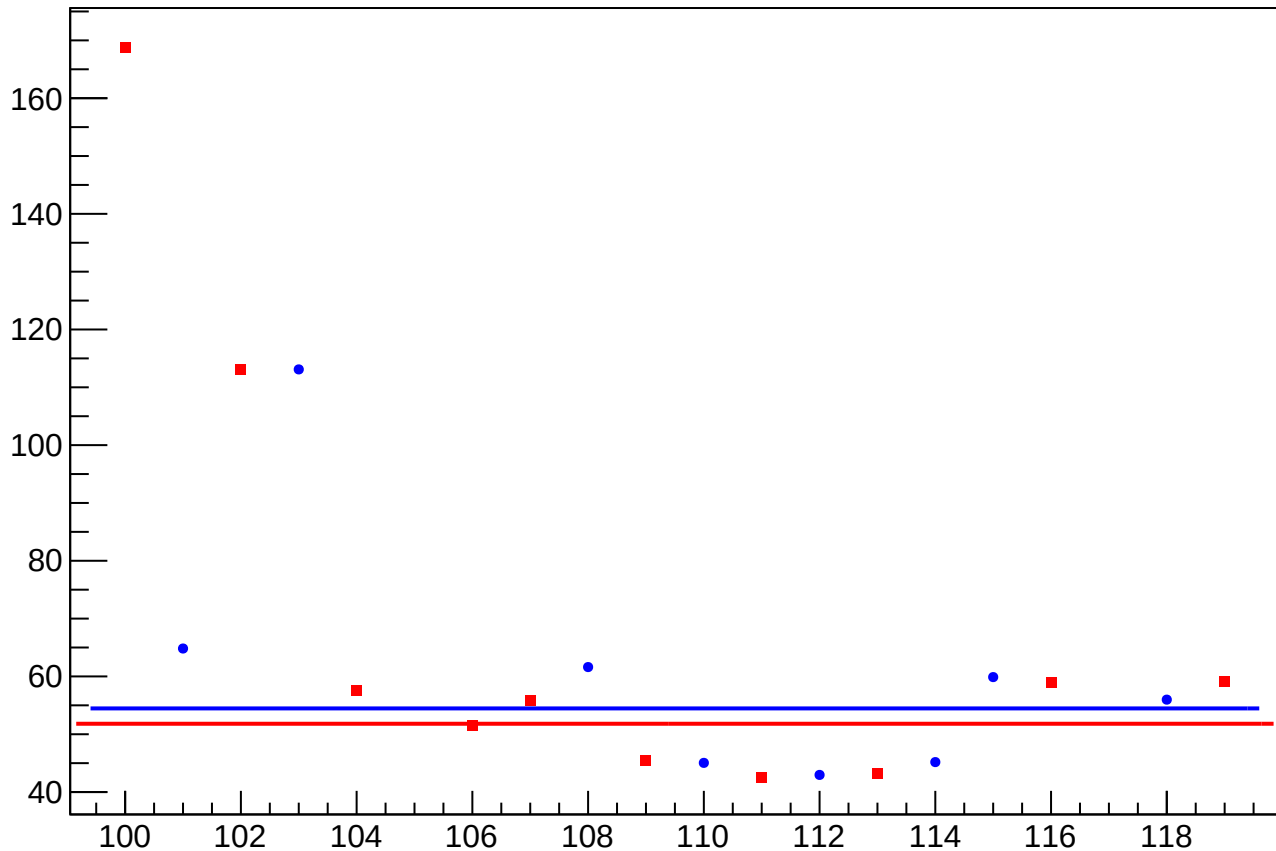
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -26.048+/-20.626  $\chi^2/\text{NDF}$ : 26.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 54.466+/-0.022  $\chi^2/\text{NDF}$ : 461877.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 51.814+/-0.019  $\chi^2/\text{NDF}$ : 571565.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

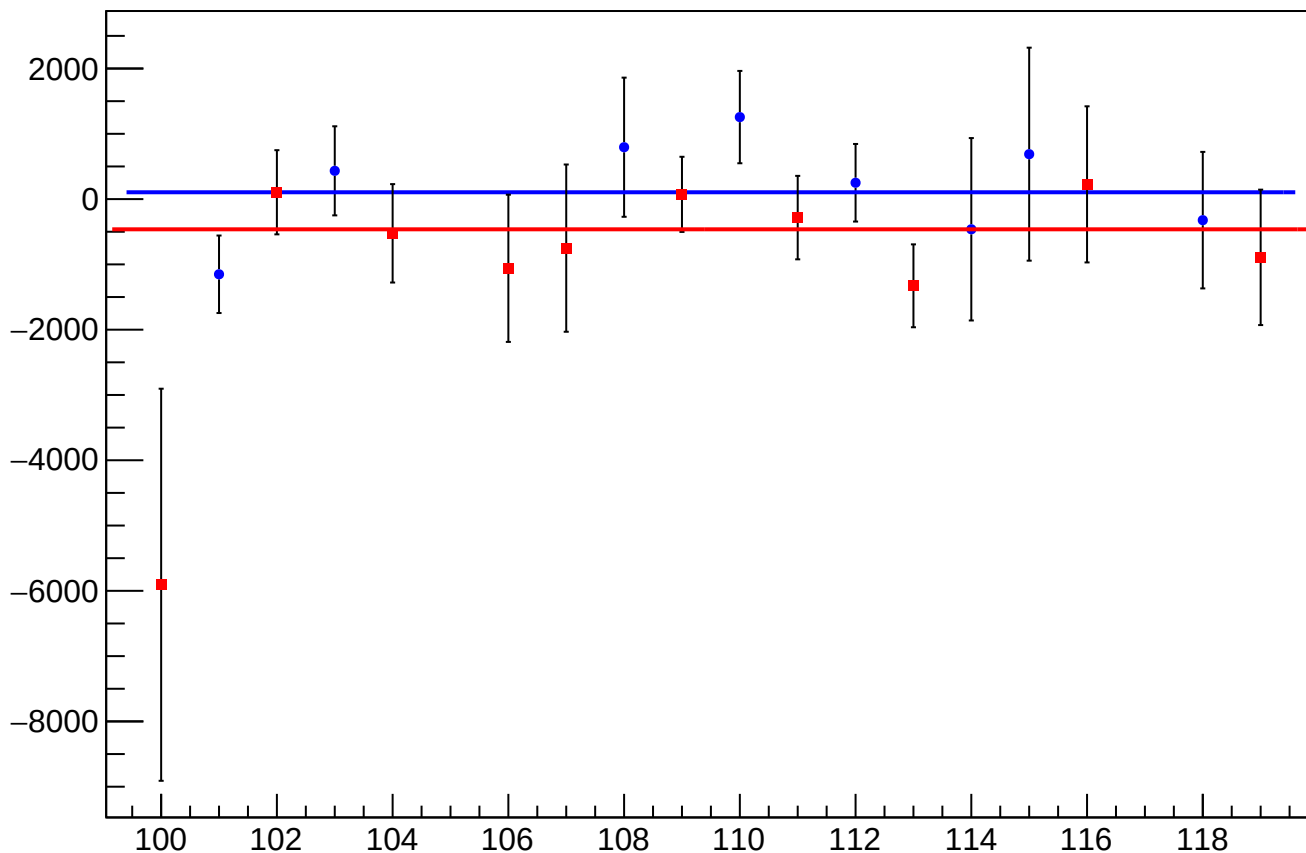
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52.953+/-0.015  $\chi^2/\text{NDF}$ : 1041546.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 104.727 $\pm$ 282.808  $\chi^2$ /NDF: 8.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -462.735 $\pm$ 256.052  $\chi^2$ /NDF: 7.7/9

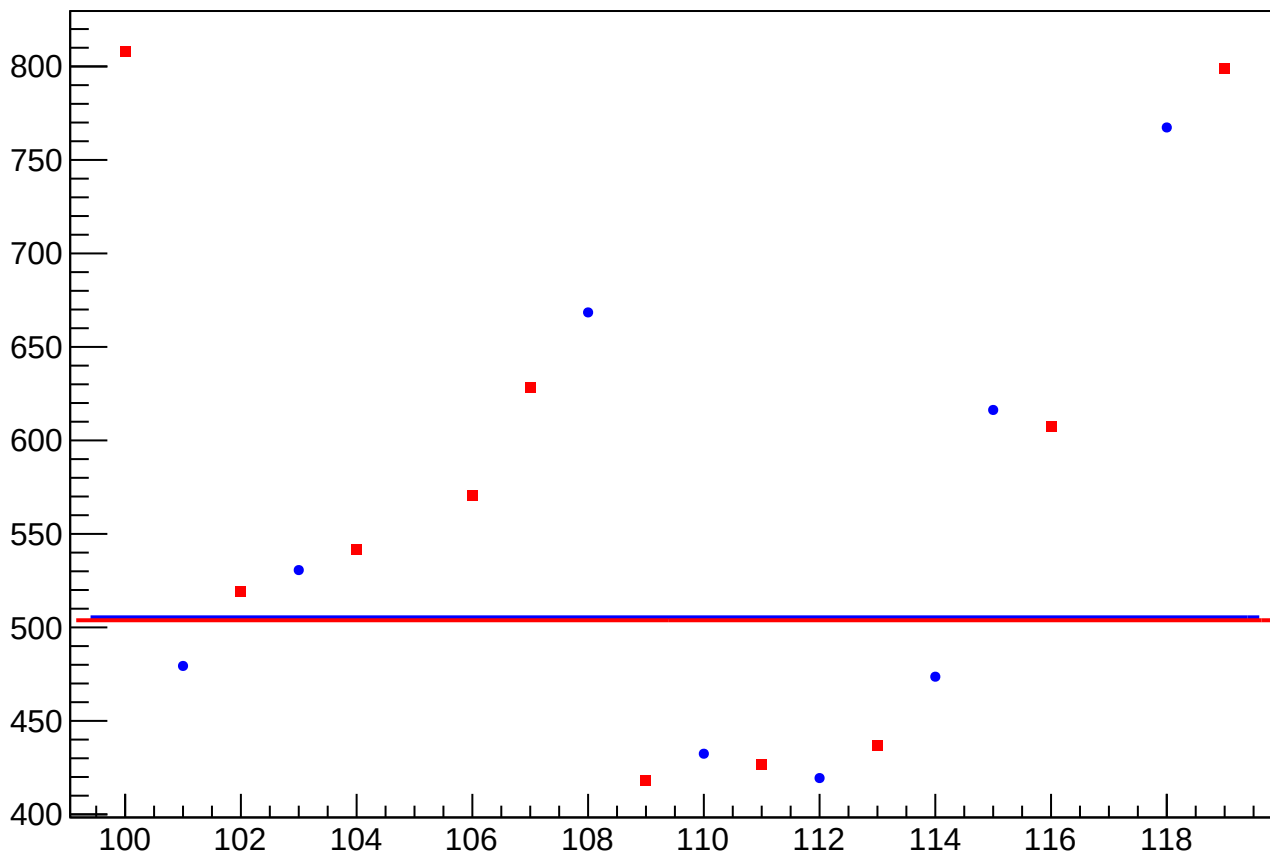
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -207.111 $\pm$ 189.812  $\chi^2$ /NDF: 18.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 505.372 $\pm$ 0.200  $\chi^2$ /NDF: 252397.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 503.819 $\pm$ 0.181  $\chi^2$ /NDF: 325056.9/9

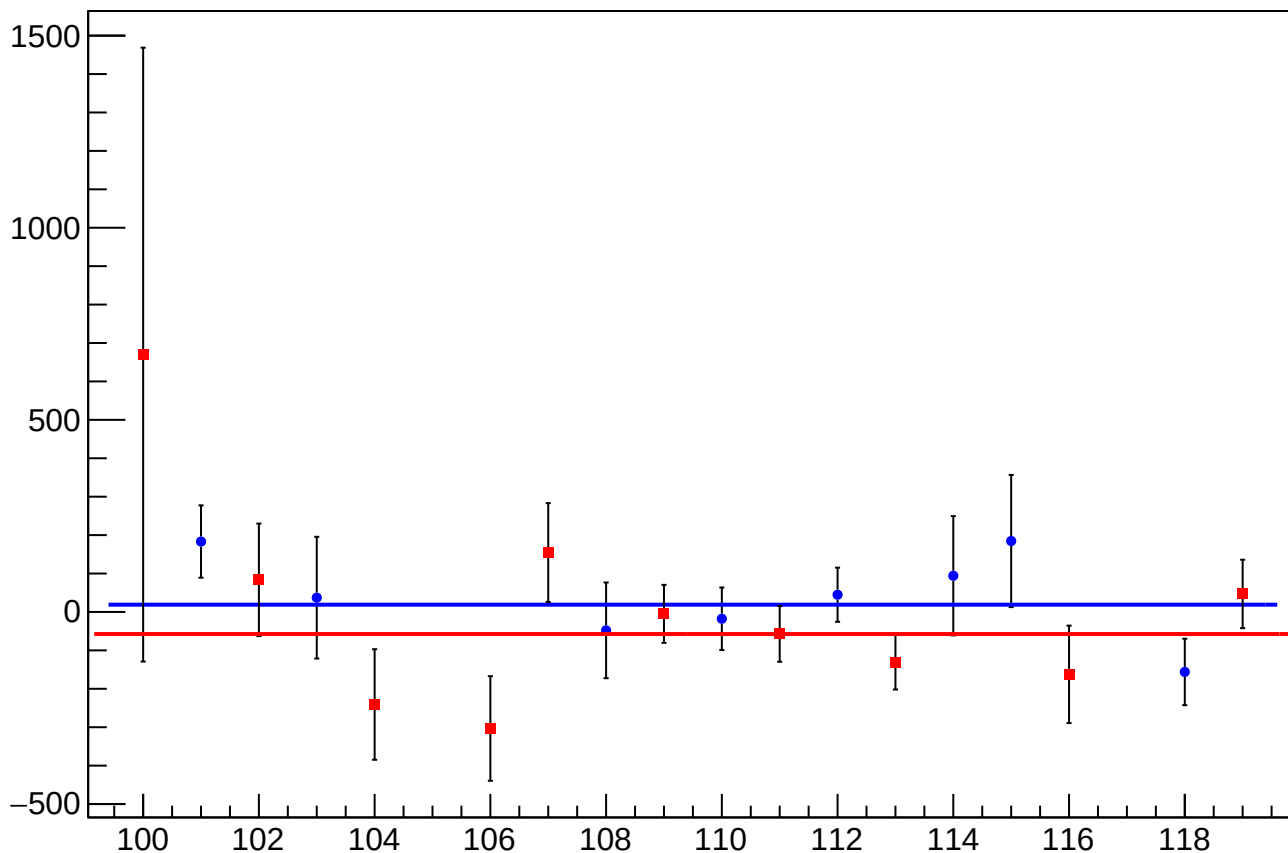
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 504.518 $\pm$ 0.134  $\chi^2$ /NDF: 577487.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 18.901+/-35.844  $\chi^2/\text{NDF}$ : 8.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -57.503+/-32.261  $\chi^2/\text{NDF}$ : 13.0/9

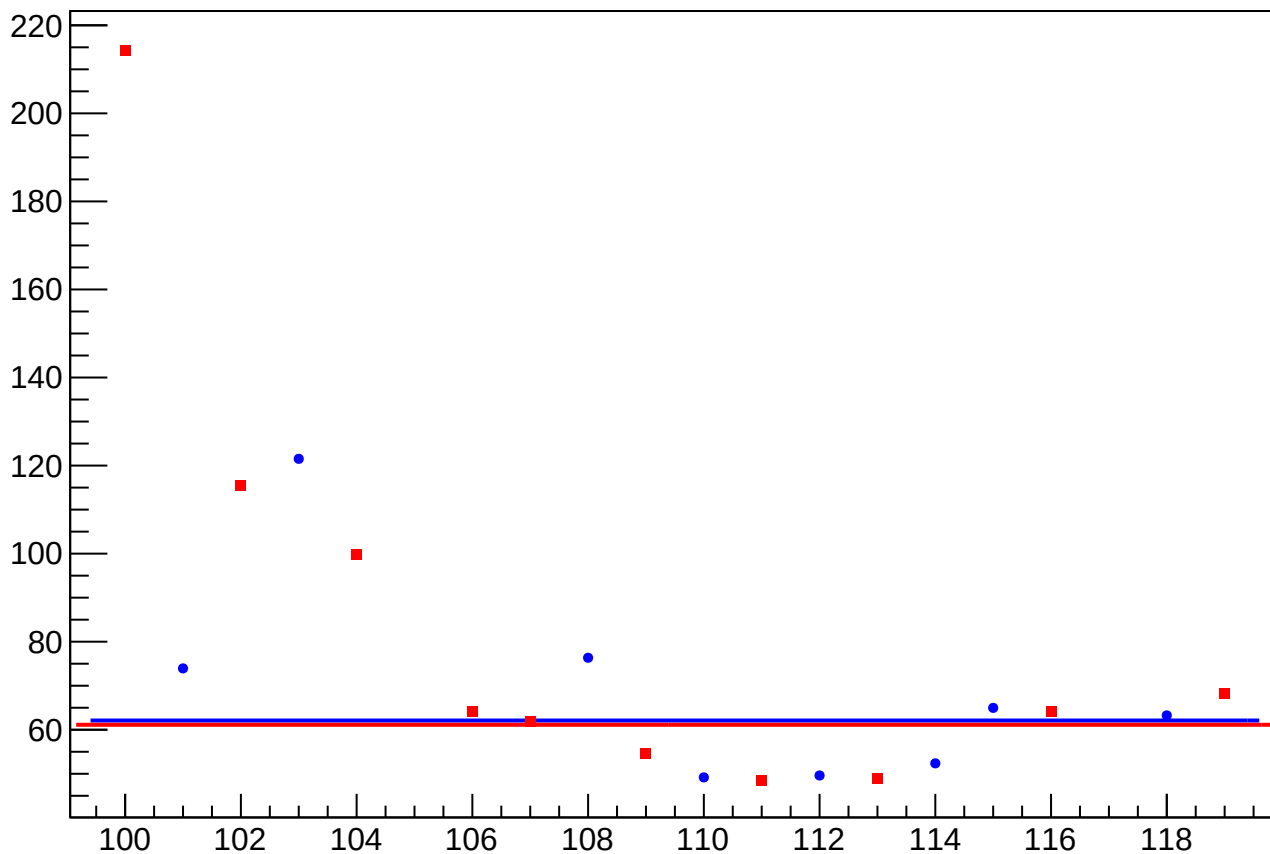
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -23.309+/-23.979  $\chi^2/\text{NDF}$ : 24.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 62.098+/-0.025  $\chi^2/\text{NDF}$ : 461199.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 61.128+/-0.023  $\chi^2/\text{NDF}$ : 644035.2/9

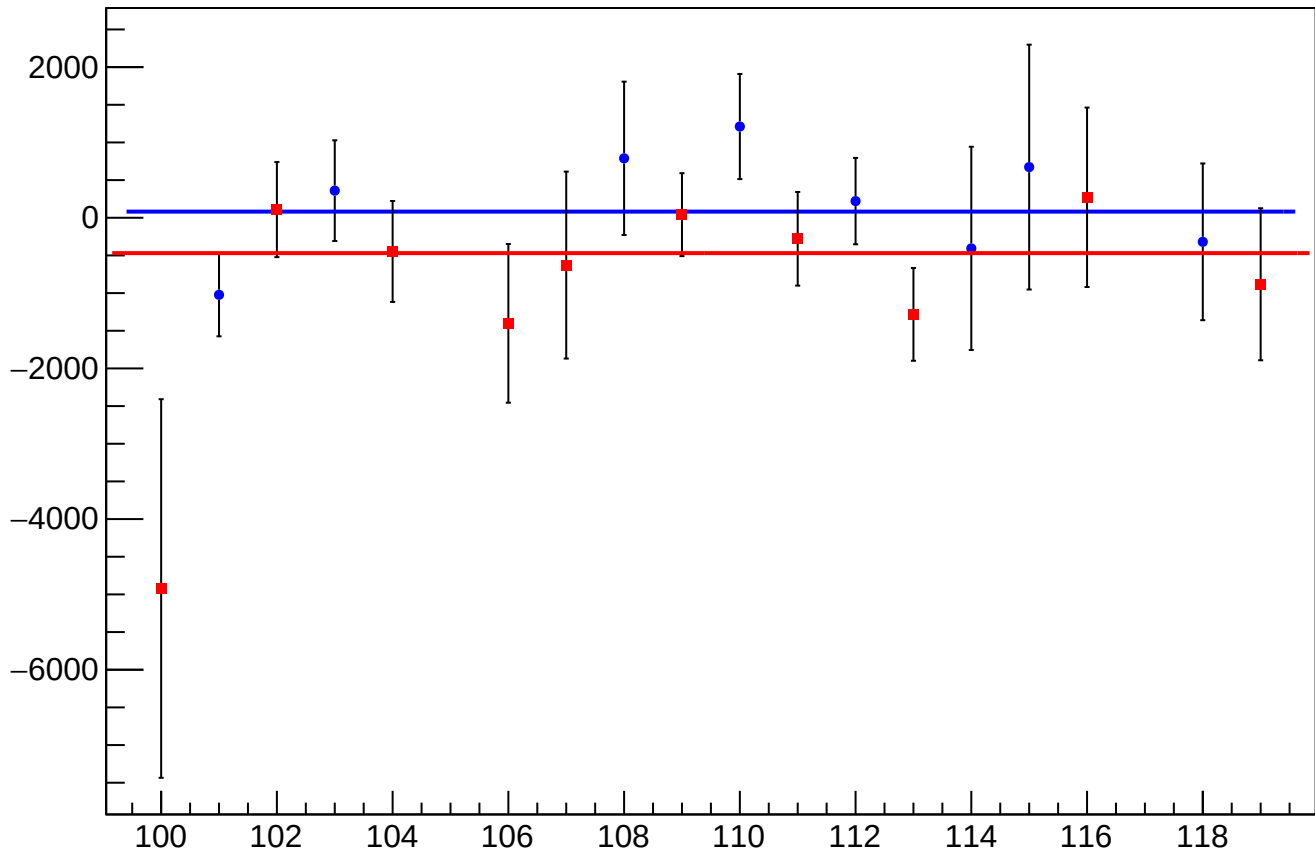
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 61.562+/-0.017  $\chi^2/\text{NDF}$ : 1106044.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_dit\_correction\_mean vs Slug



Right In: 81.811+/-272.717  $\chi^2/\text{NDF}$ : 7.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -469.244+/-245.013  $\chi^2/\text{NDF}$ : 8.0/9

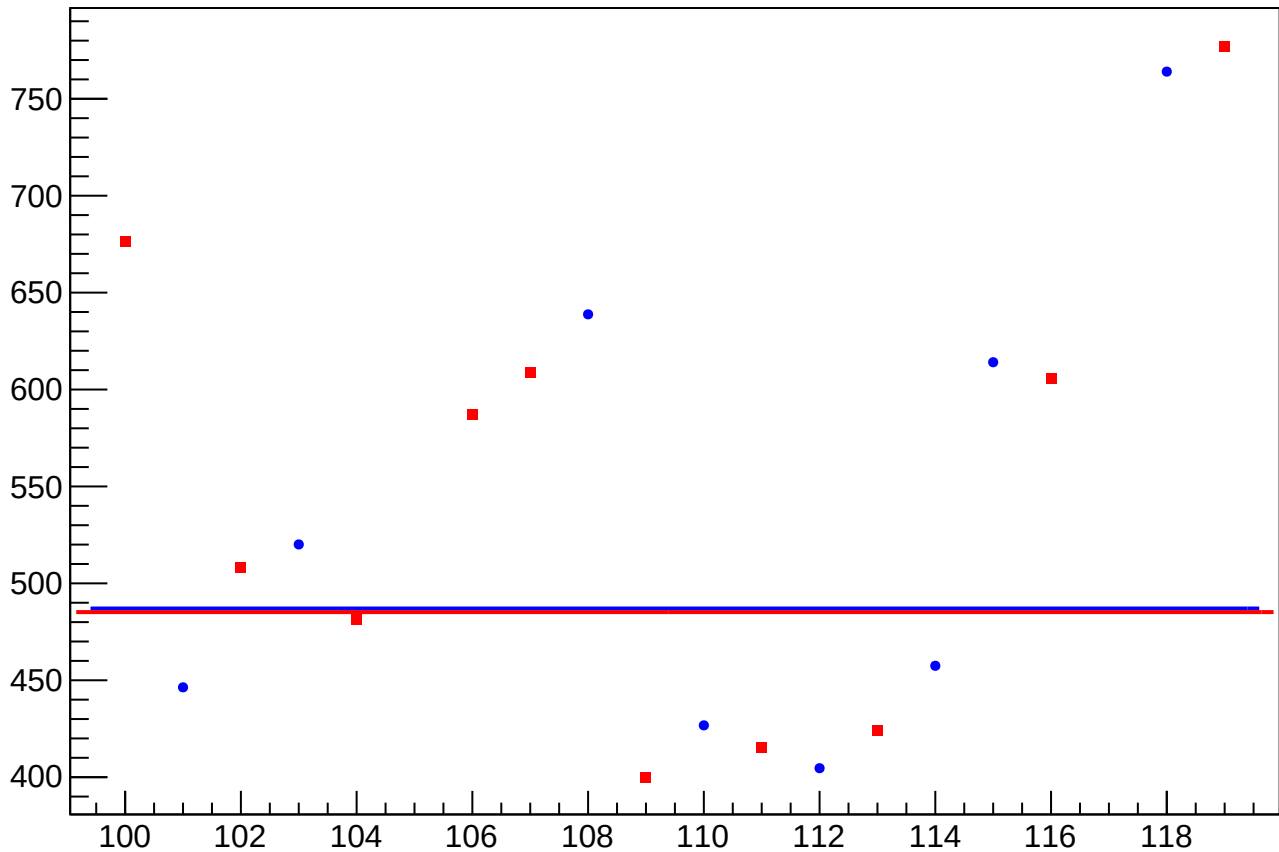
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -223.119+/-182.260  $\chi^2/\text{NDF}$ : 18.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_avg\_dit\_correction\_rms vs Slug



Right In: 487.014+/-0.193  $\chi^2/\text{NDF}$ : 271512.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 485.171+/-0.173  $\chi^2/\text{NDF}$ : 333889.6/9

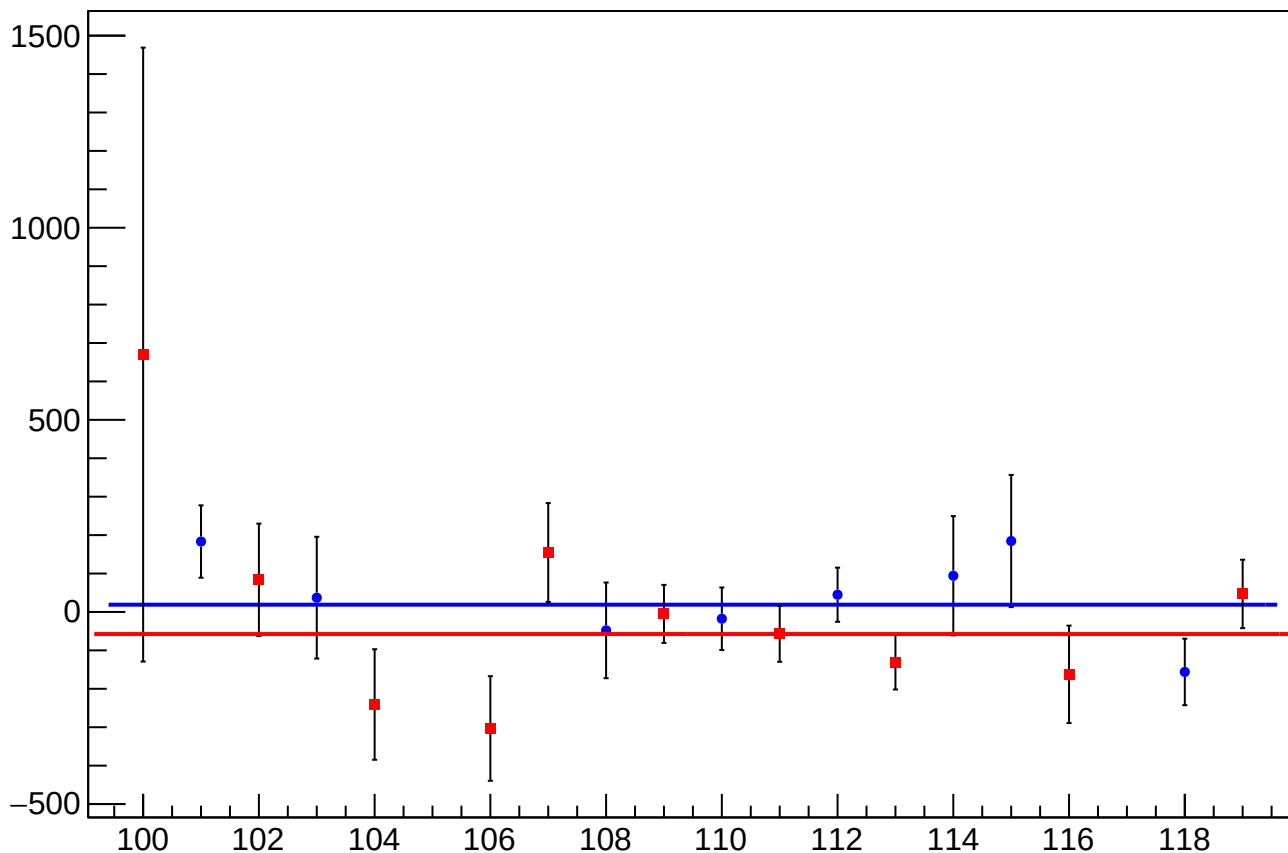
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 485.994+/-0.129  $\chi^2/\text{NDF}$ : 605453.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 18.900 $\pm$ 35.844  $\chi^2$ /NDF: 8.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -57.502 $\pm$ 32.261  $\chi^2$ /NDF: 13.0/9

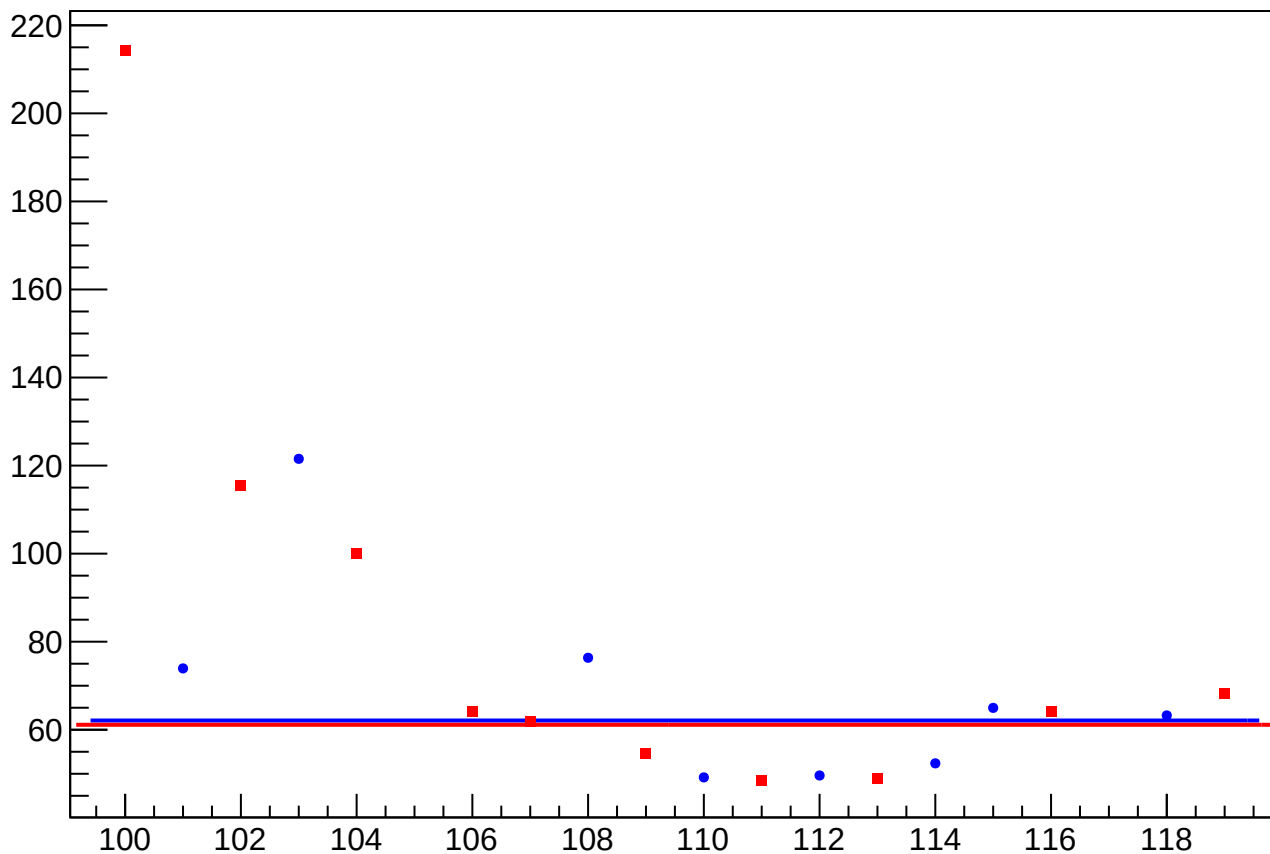
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -23.309 $\pm$ 23.979  $\chi^2$ /NDF: 24.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 62.099+/-0.025  $\chi^2/\text{NDF}$ : 461199.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 61.128+/-0.023  $\chi^2/\text{NDF}$ : 644033.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

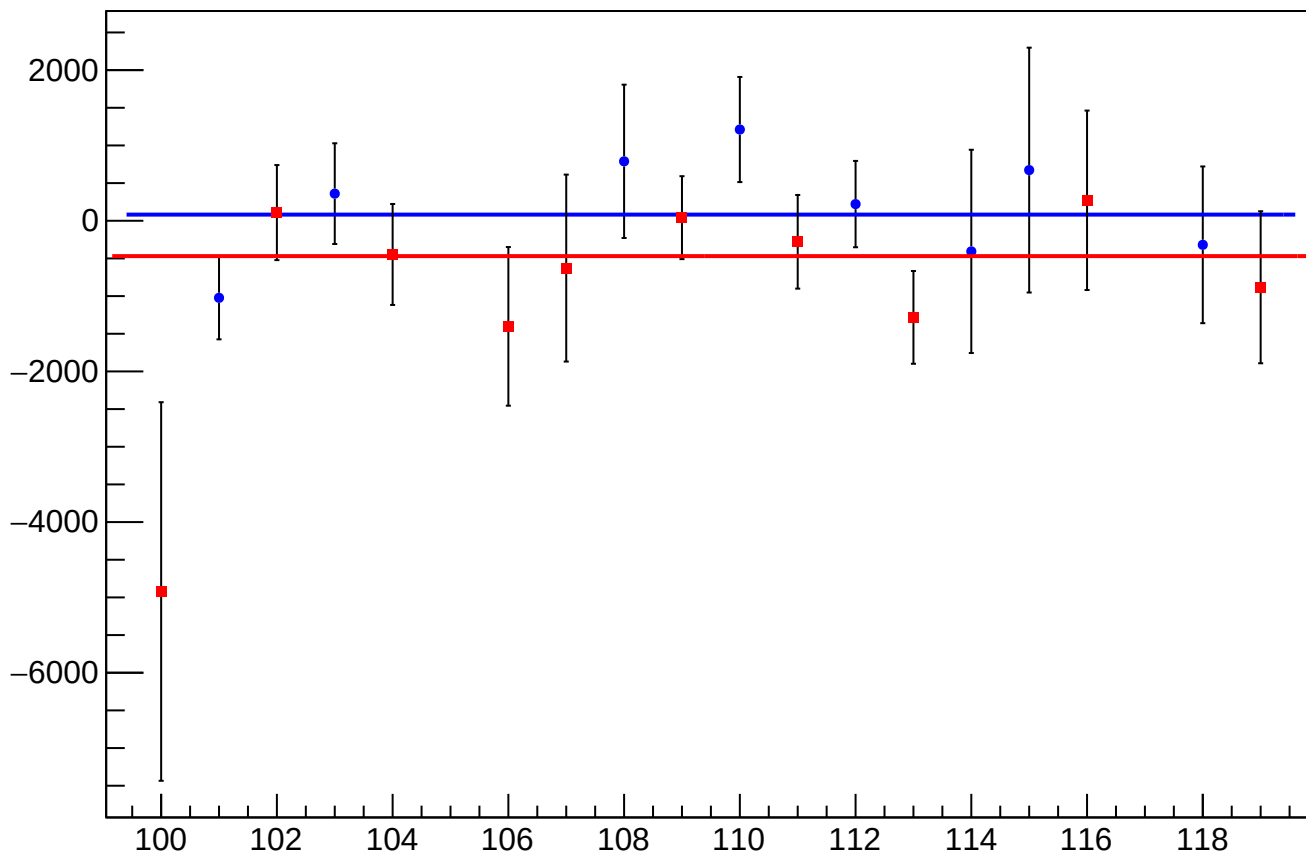
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 61.563+/-0.017  $\chi^2/\text{NDF}$ : 1106042.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 81.810 $\pm$ 272.716  $\chi^2$ /NDF: 7.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -469.243 $\pm$ 245.013  $\chi^2$ /NDF: 8.0/9

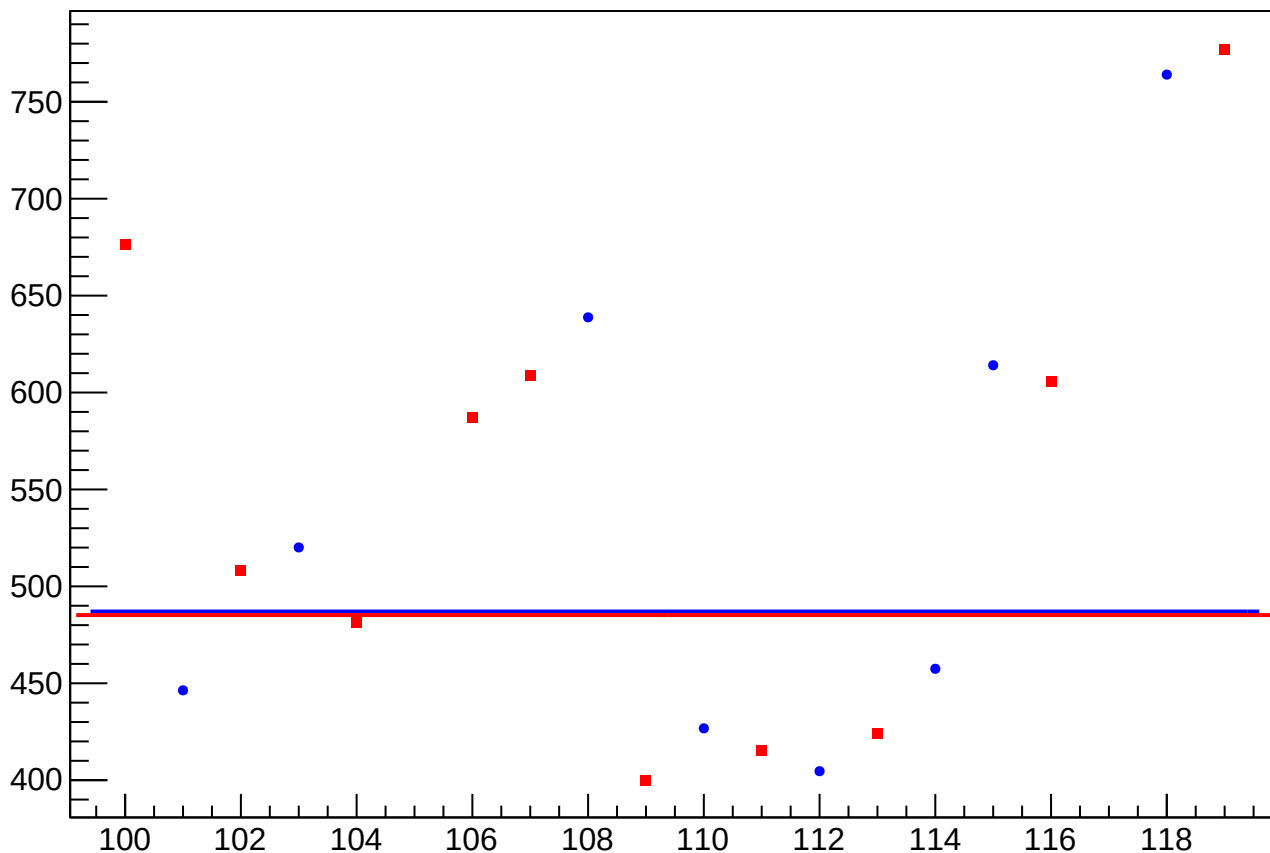
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -223.119 $\pm$ 182.260  $\chi^2$ /NDF: 18.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 487.013+/-0.193  $\chi^2/\text{NDF}$ : 271515.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 485.170+/-0.173  $\chi^2/\text{NDF}$ : 333892.0/9

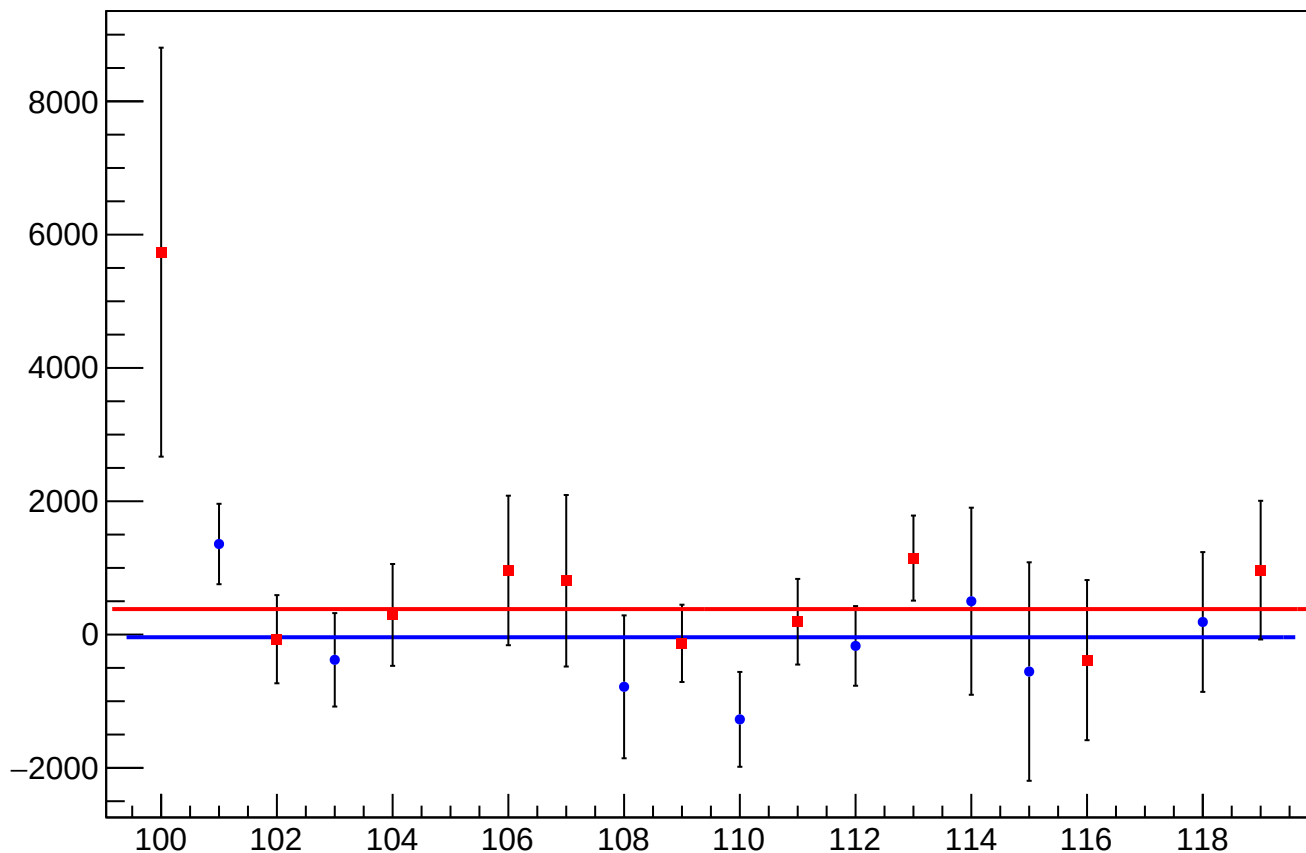
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 485.993+/-0.129  $\chi^2/\text{NDF}$ : 605458.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_avg\_mean vs Slug



Right In:  $-40.094 \pm 286.052$   $\chi^2/\text{NDF}$ : 9.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $382.421 \pm 258.404$   $\chi^2/\text{NDF}$ : 6.9/9

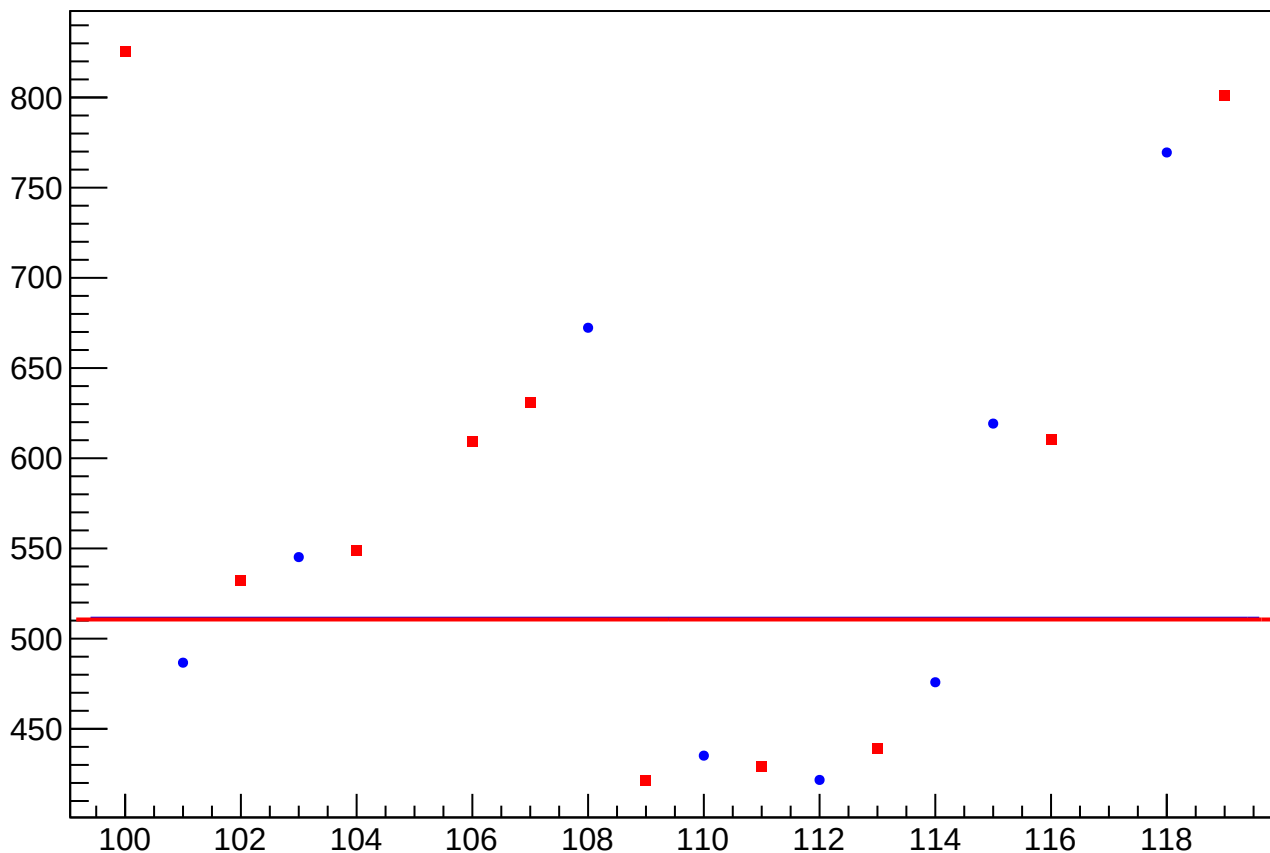
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $192.564 \pm 191.751$   $\chi^2/\text{NDF}$ : 17.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_avg\_rms vs Slug



Right In: 511.057 $\pm$ 0.202  $\chi^2$ /NDF: 252311.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 510.616 $\pm$ 0.183  $\chi^2$ /NDF: 335920.2/9

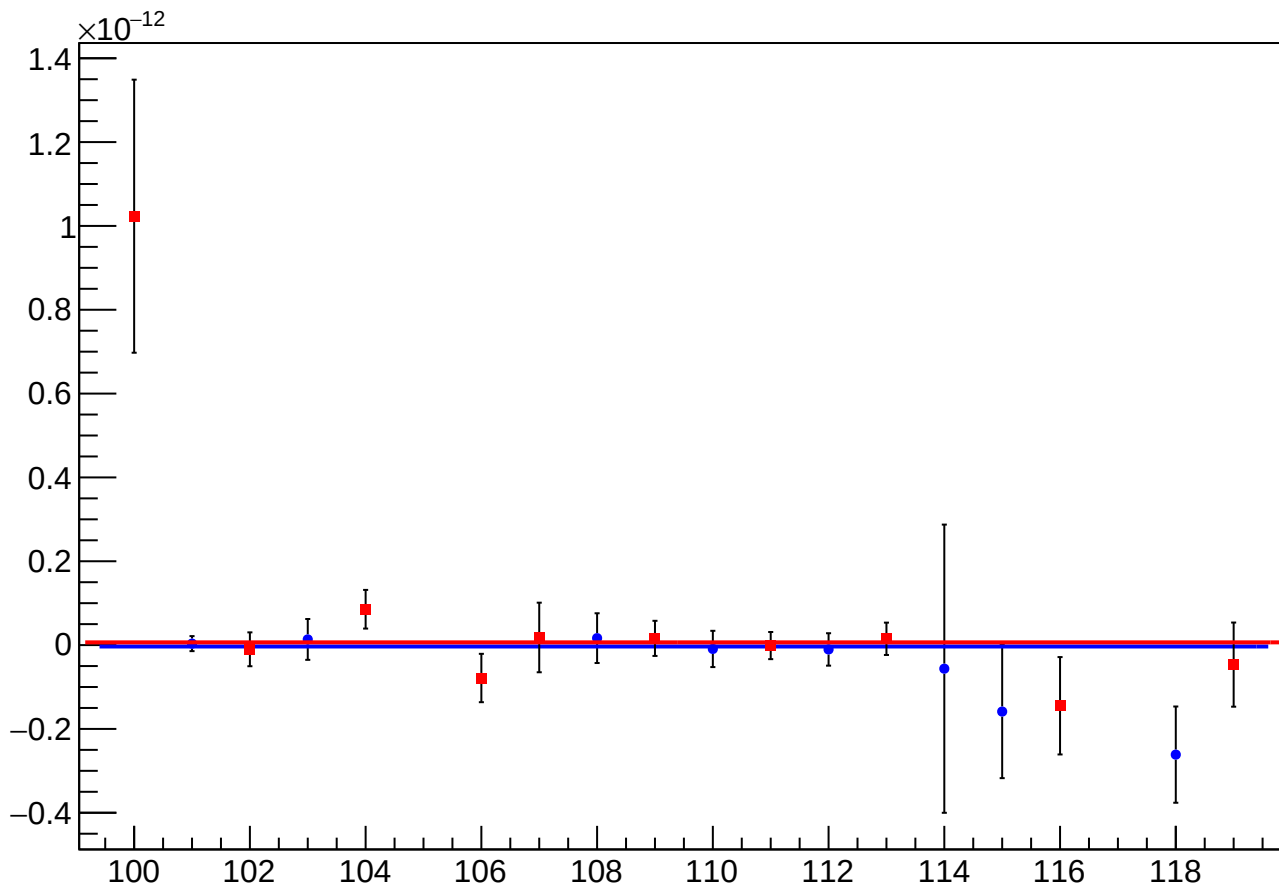
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 510.814 $\pm$ 0.136  $\chi^2$ /NDF: 588234.1/17

- 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: 6.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.2/9

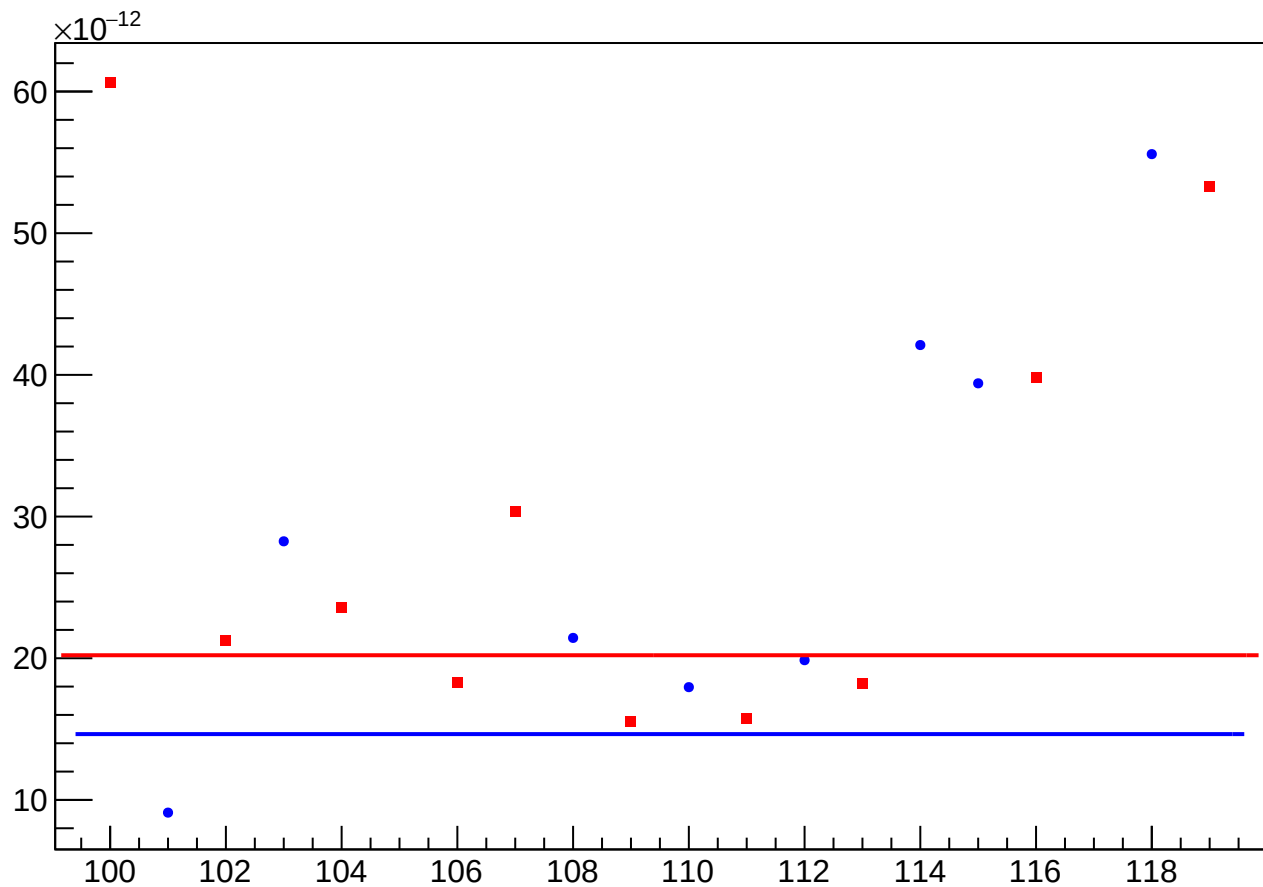
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 23.8/17

- 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  $\chi^2/\text{NDF}$ : 737021.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 417027.6/9

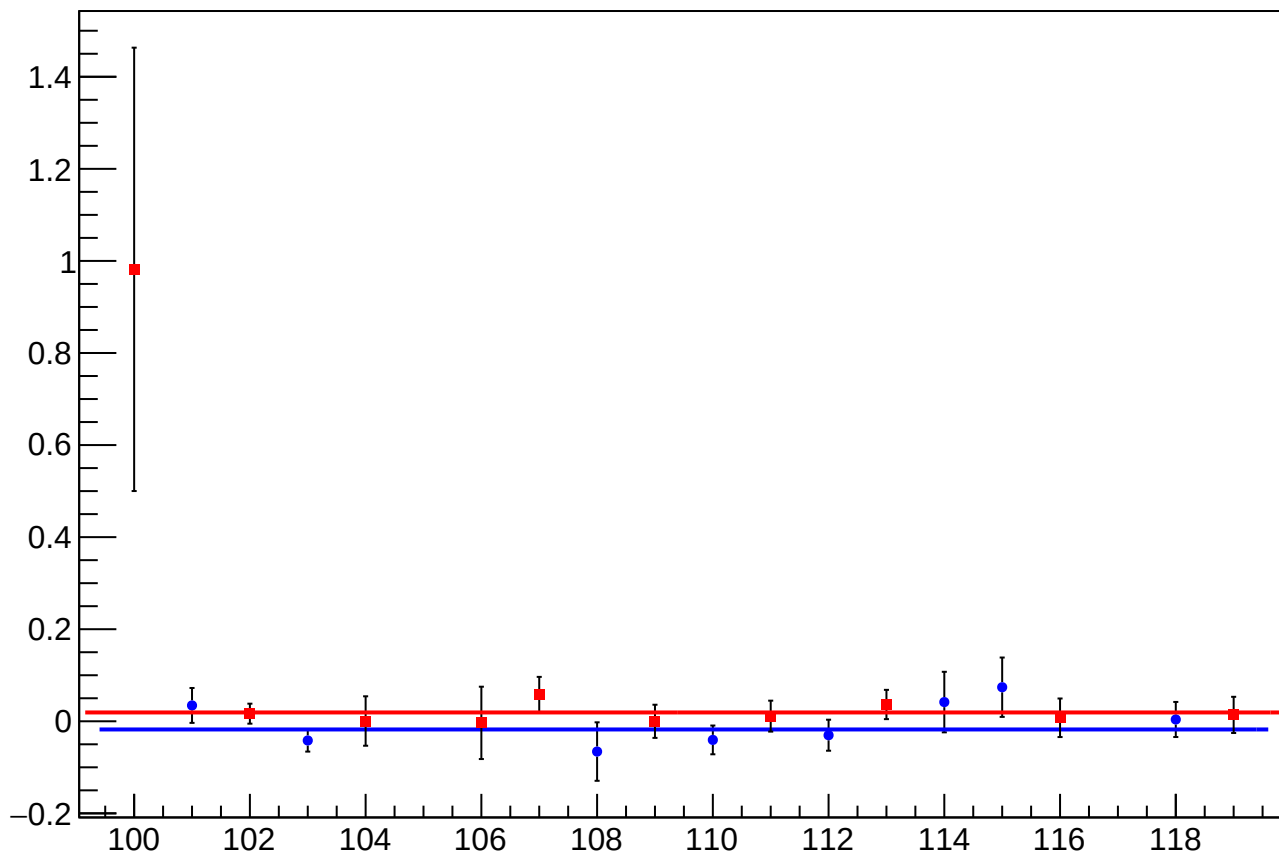
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1291617.5/17

- 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: -0.018+/-0.013  $\chi^2/\text{NDF}$ : 7.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.019+/-0.012  $\chi^2/\text{NDF}$ : 6.0/9

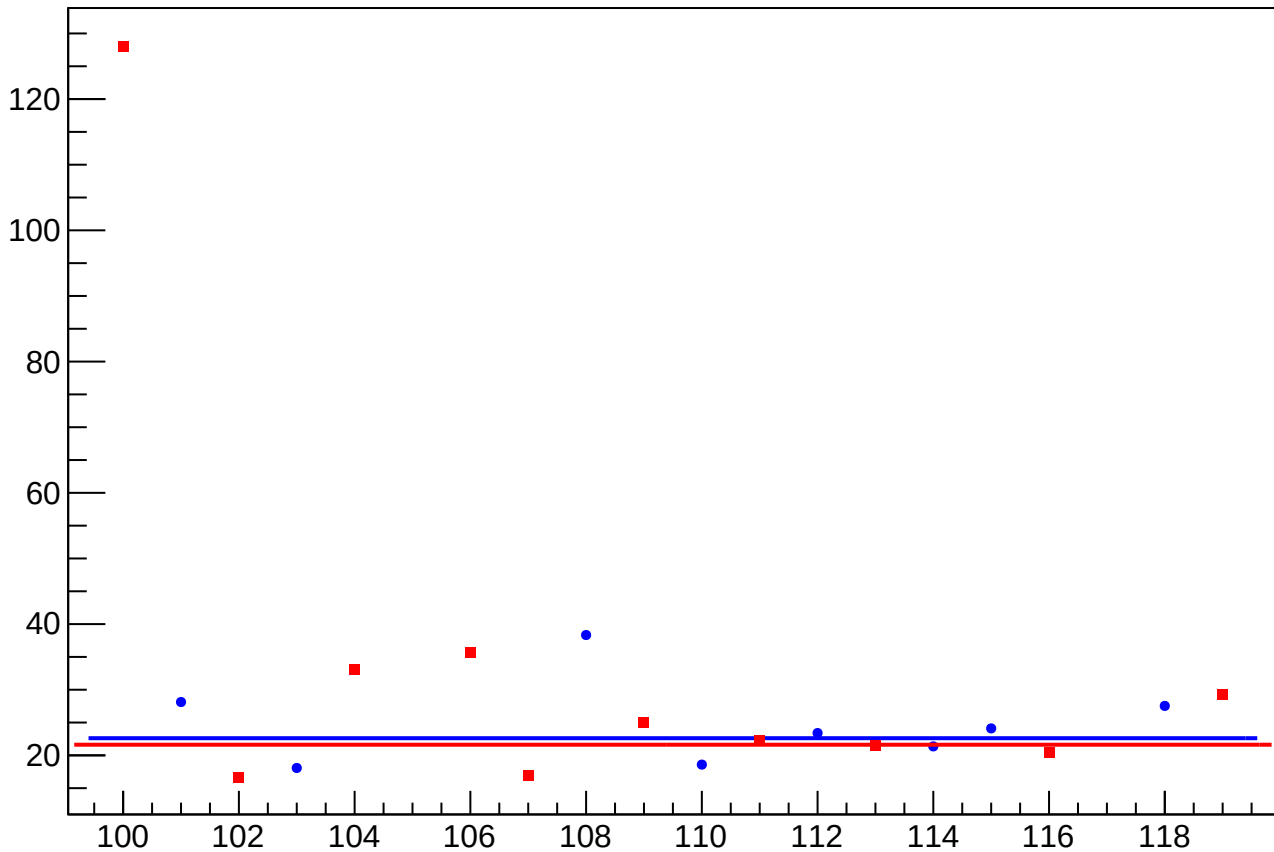
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.009  $\chi^2/\text{NDF}$ : 17.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 22.613 $\pm$ 0.009  $\chi^2$ /NDF: 304676.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.620 $\pm$ 0.008  $\chi^2$ /NDF: 485417.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

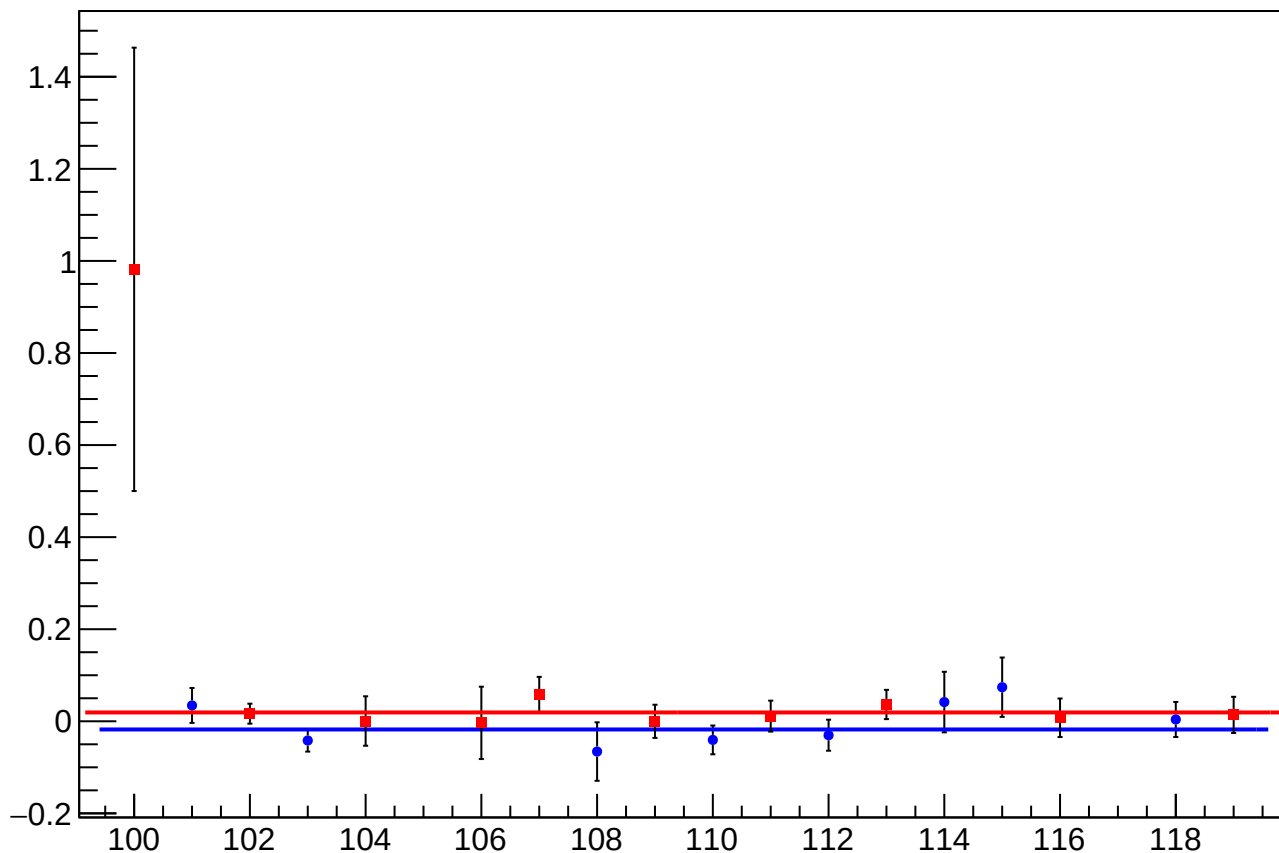
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 22.061 $\pm$ 0.006  $\chi^2$ /NDF: 796380.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1357\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.018 $\pm$ 0.013  $\chi^2$ /NDF: 7.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.019 $\pm$ 0.012  $\chi^2$ /NDF: 6.0/9

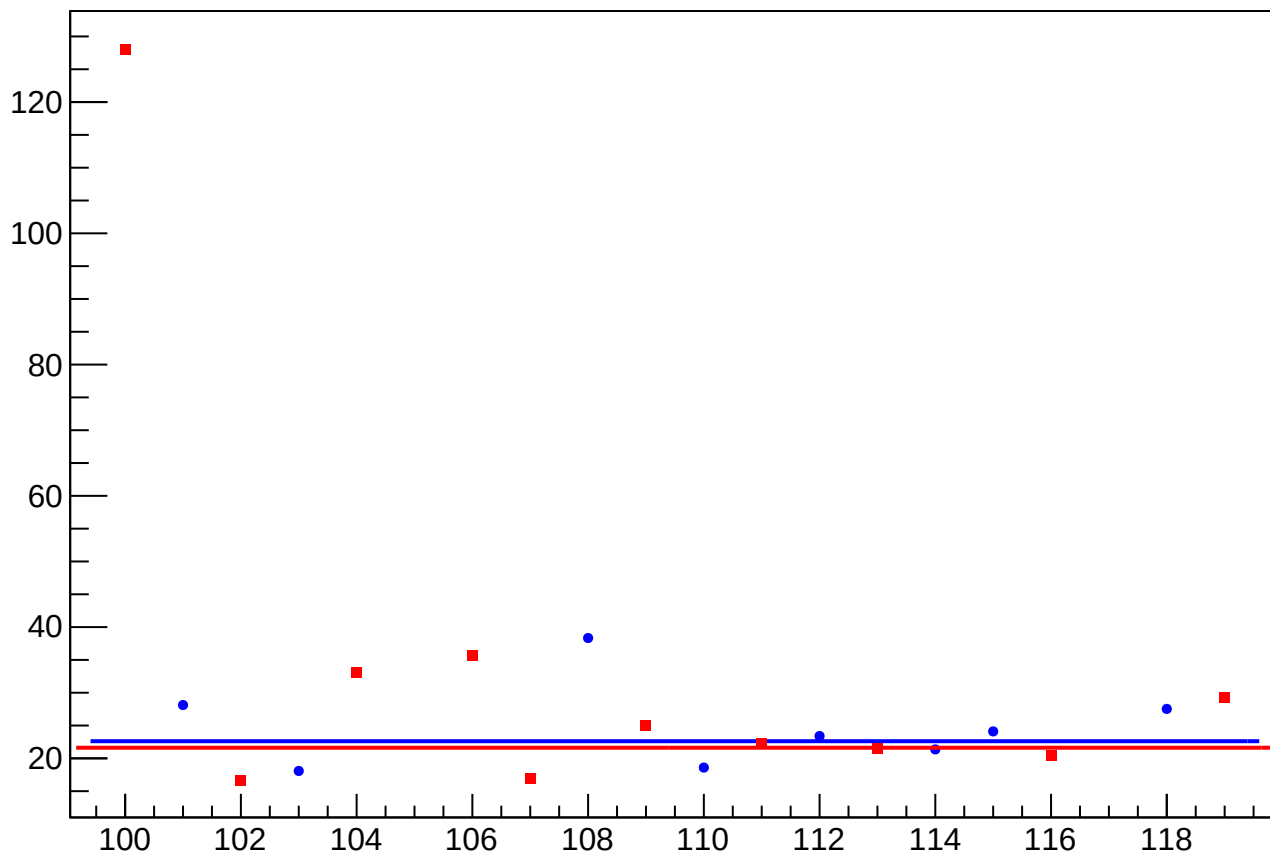
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.009  $\chi^2$ /NDF: 17.6/17

- 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: 22.613+/-0.009  $\chi^2/\text{NDF}$ : 304676.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.620+/-0.008  $\chi^2/\text{NDF}$ : 485417.0/9

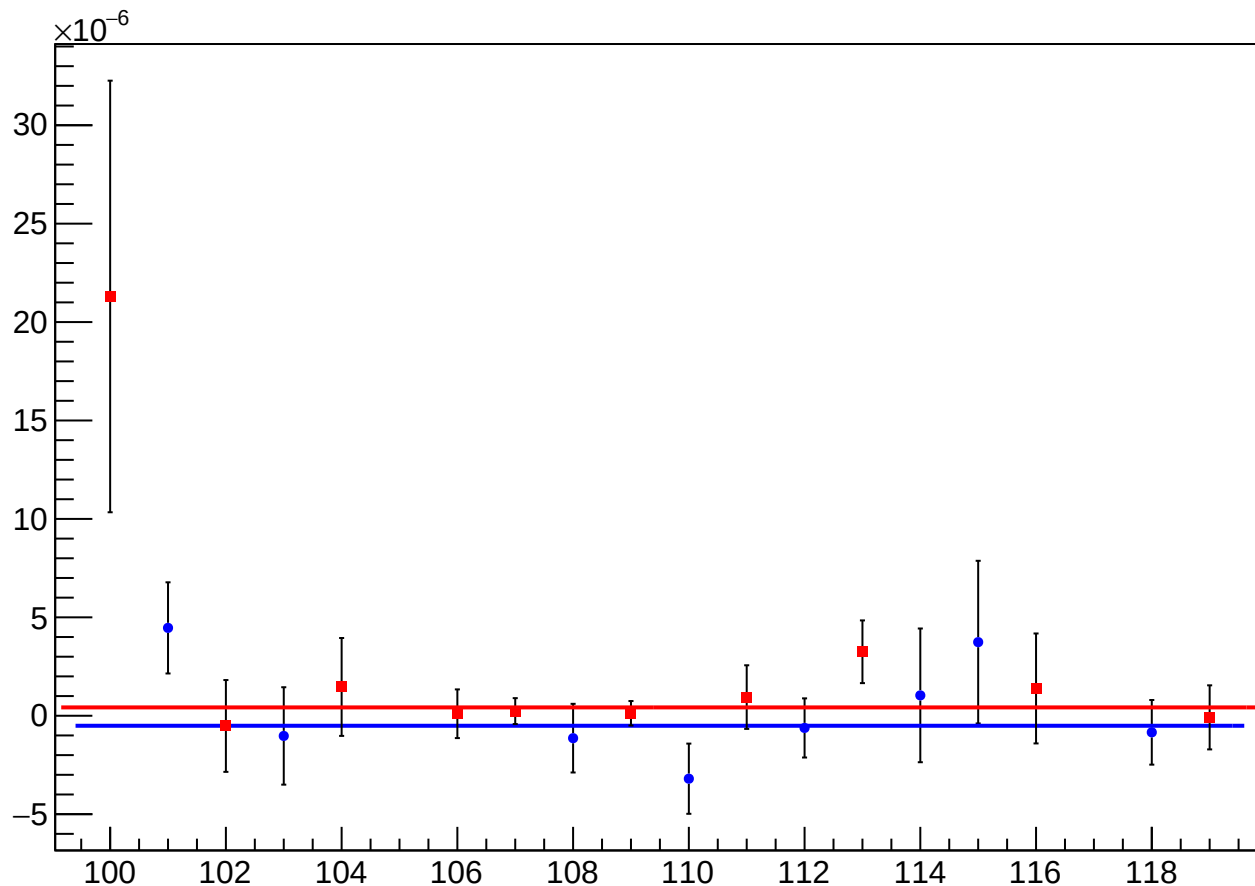
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.061+/-0.006  $\chi^2/\text{NDF}$ : 796380.3/17

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 8.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.8/9

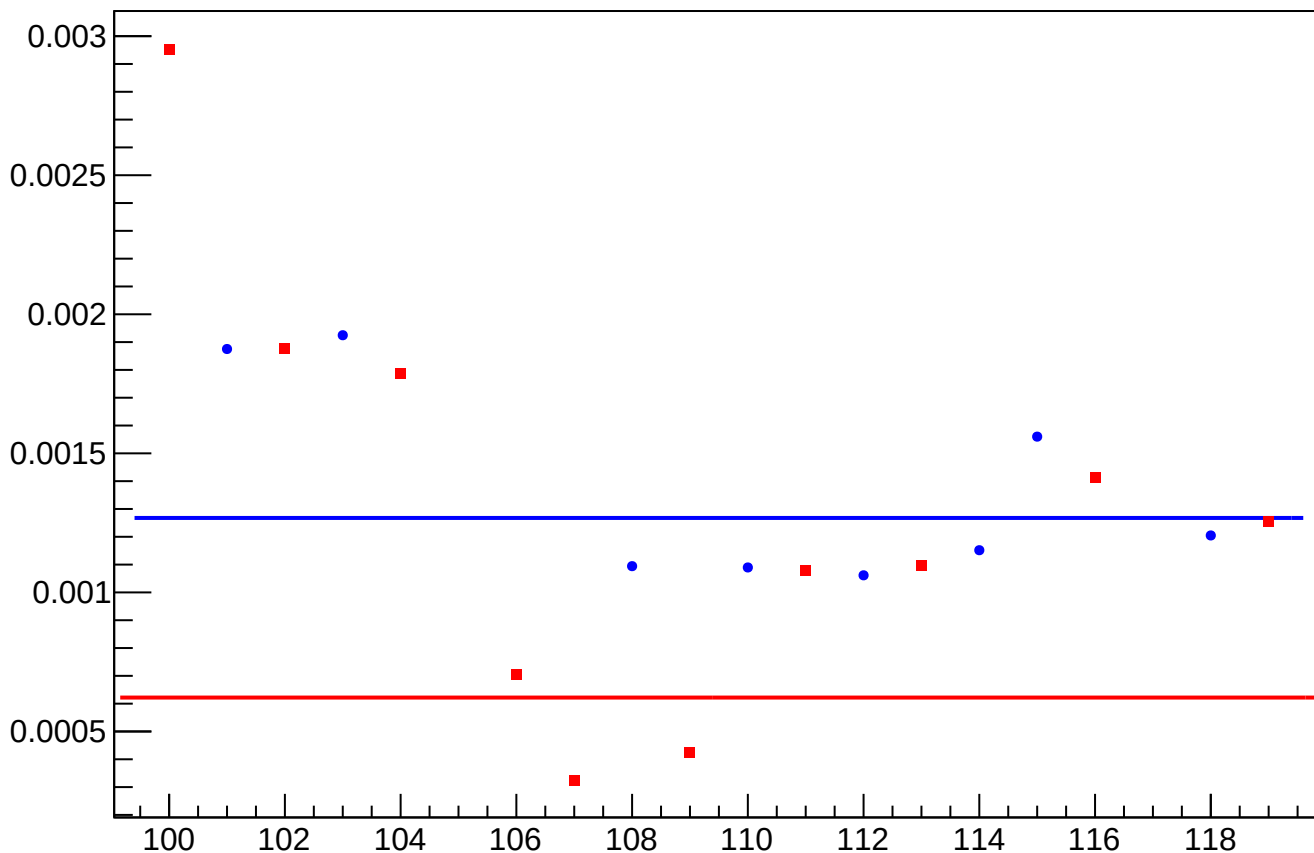
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.5/17

- sign 0.000 $\pm$ 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  $\chi^2/\text{NDF}$ : 371305.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2529592.9/9

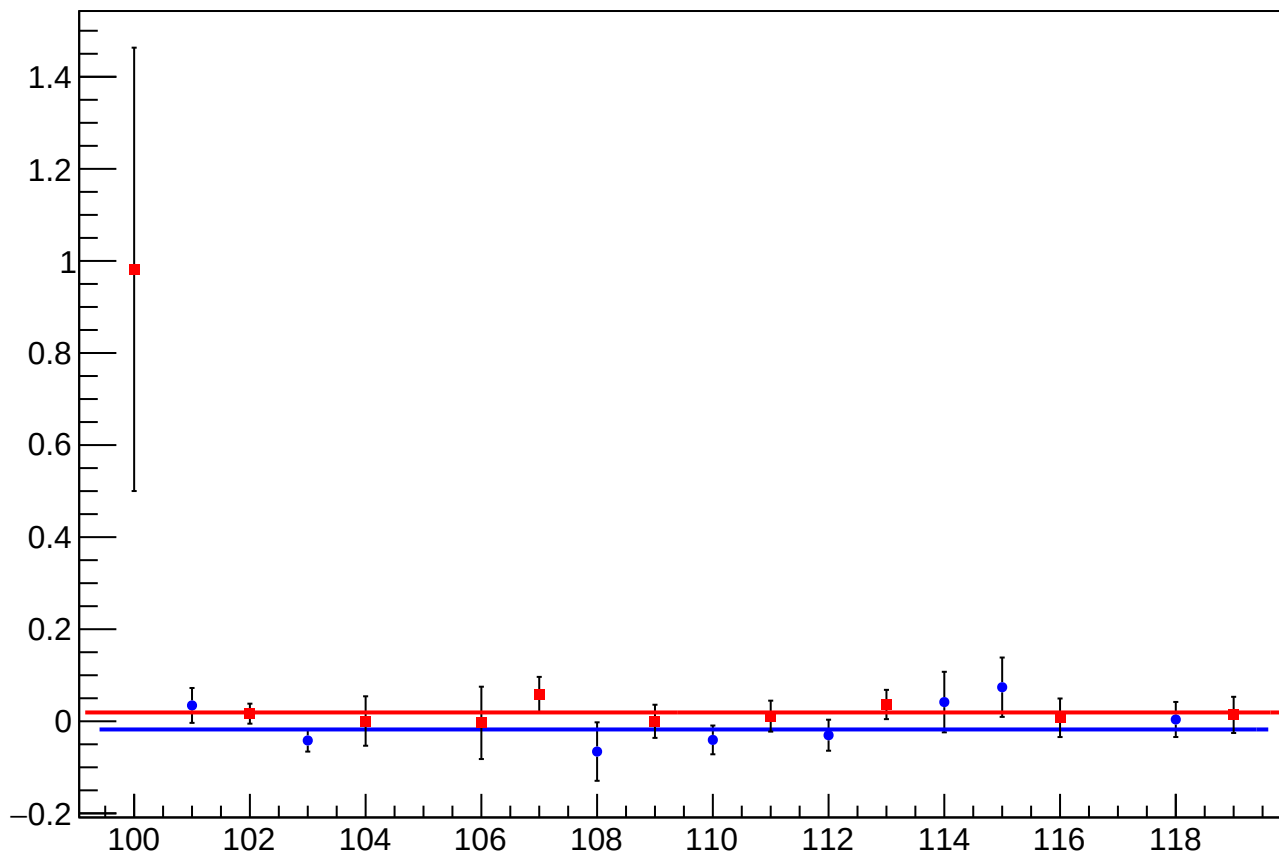
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4181050.7/17

- 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:  $-0.018 \pm 0.013$   $\chi^2/\text{NDF}: 7.3/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.019 \pm 0.012$   $\chi^2/\text{NDF}: 6.0/9$

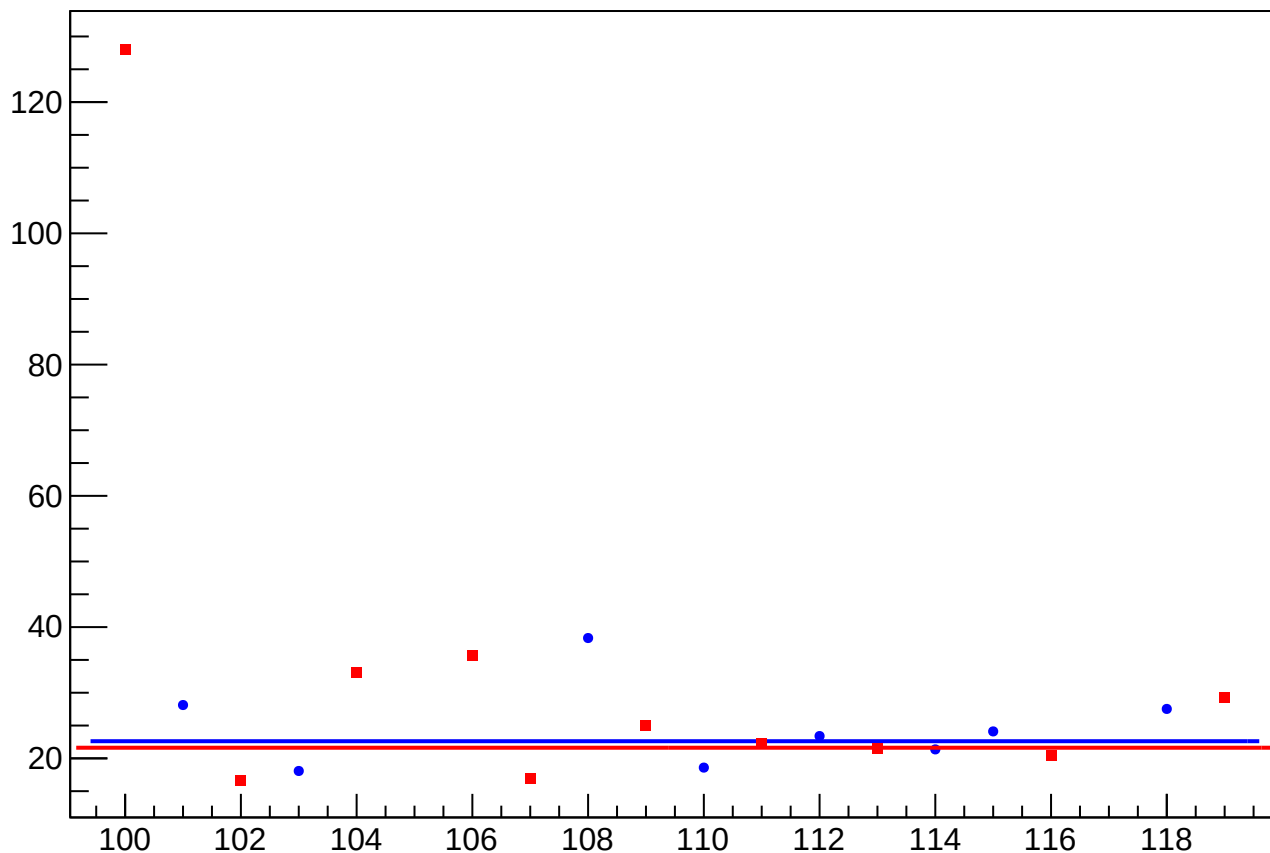
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $0.003 \pm 0.009$   $\chi^2/\text{NDF}: 17.6/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 22.614 $\pm$ 0.009  $\chi^2$ /NDF: 304668.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.620 $\pm$ 0.008  $\chi^2$ /NDF: 485398.1/9

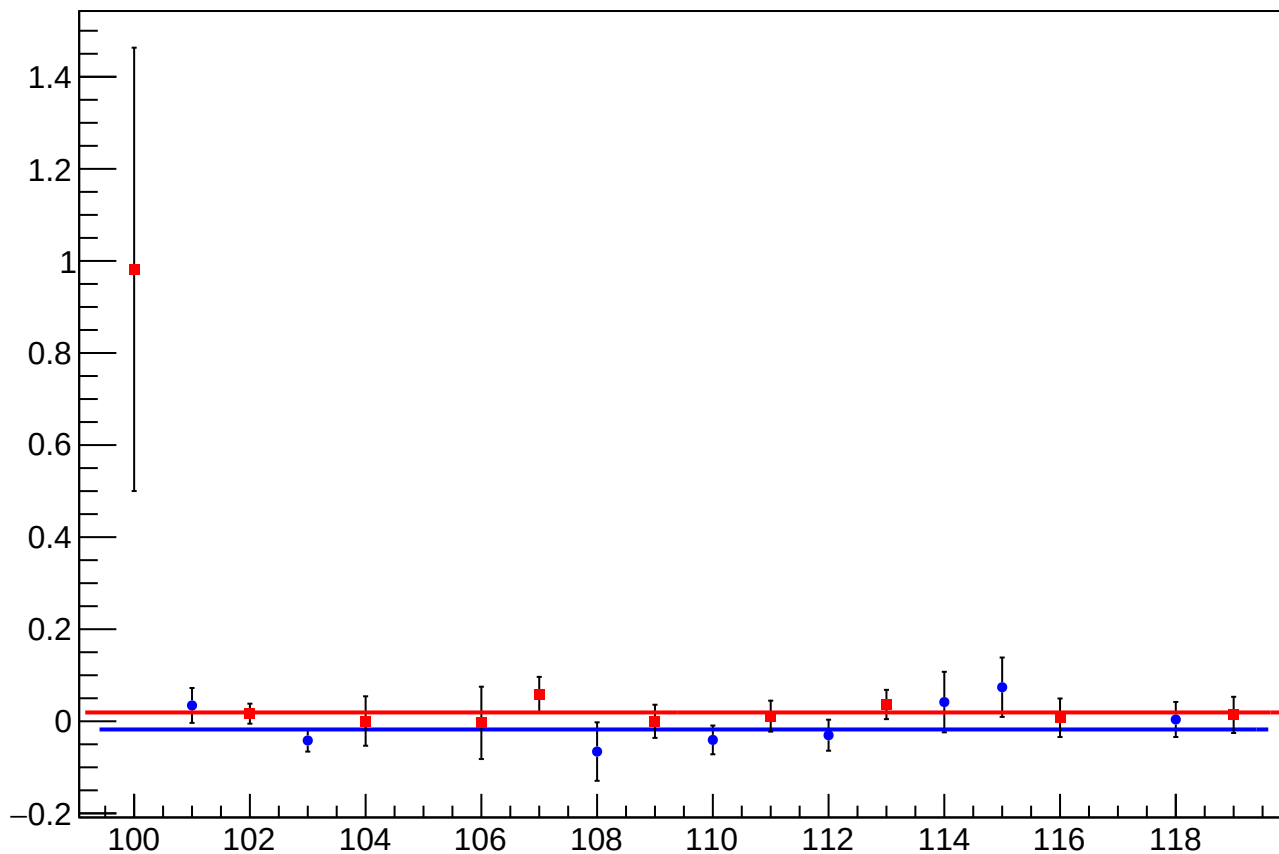
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 22.061 $\pm$ 0.006  $\chi^2$ /NDF: 796353.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.018 $\pm$ 0.013  $\chi^2$ /NDF: 7.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.019 $\pm$ 0.012  $\chi^2$ /NDF: 6.0/9

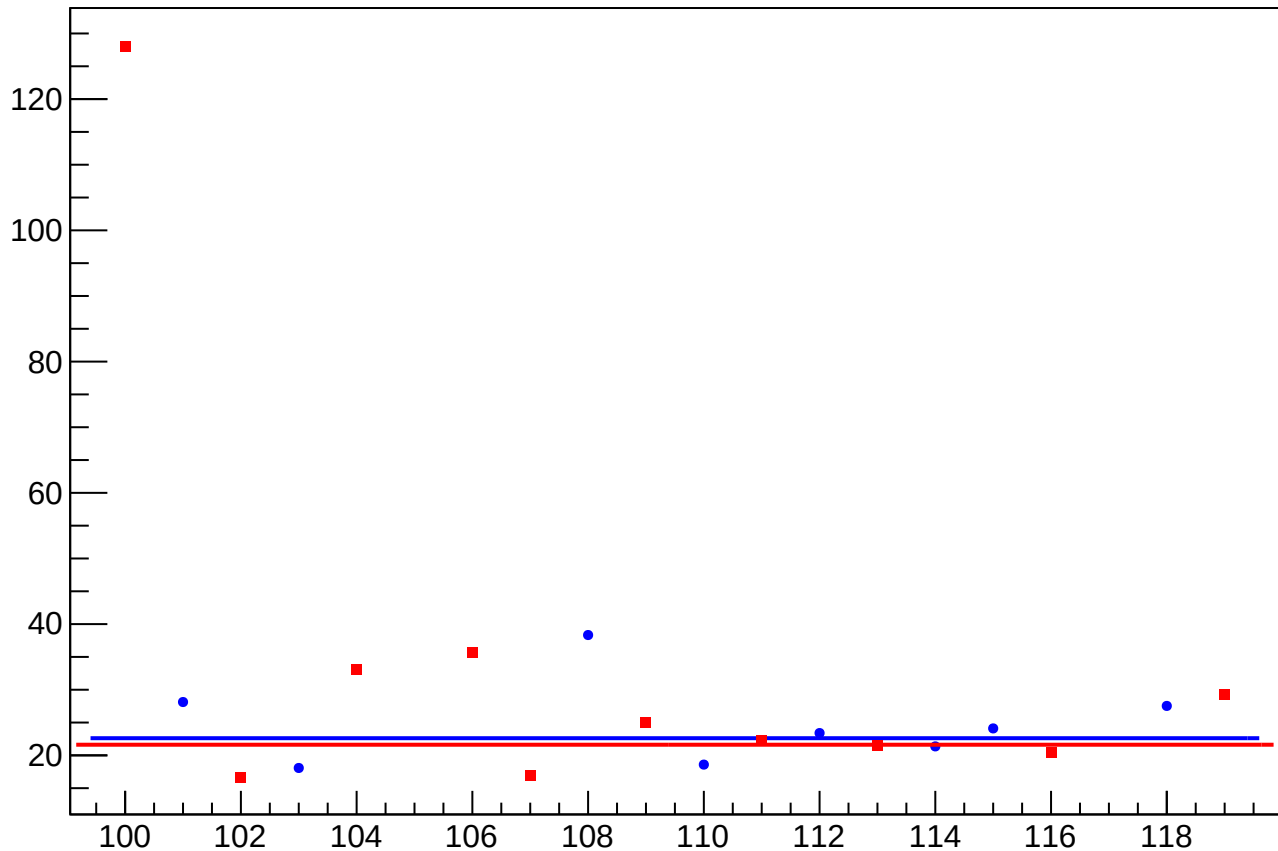
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.009  $\chi^2$ /NDF: 17.6/17

- 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:  $22.614 \pm 0.009$   $\chi^2/\text{NDF}: 304668.9/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $21.620 \pm 0.008$   $\chi^2/\text{NDF}: 485398.1/9$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

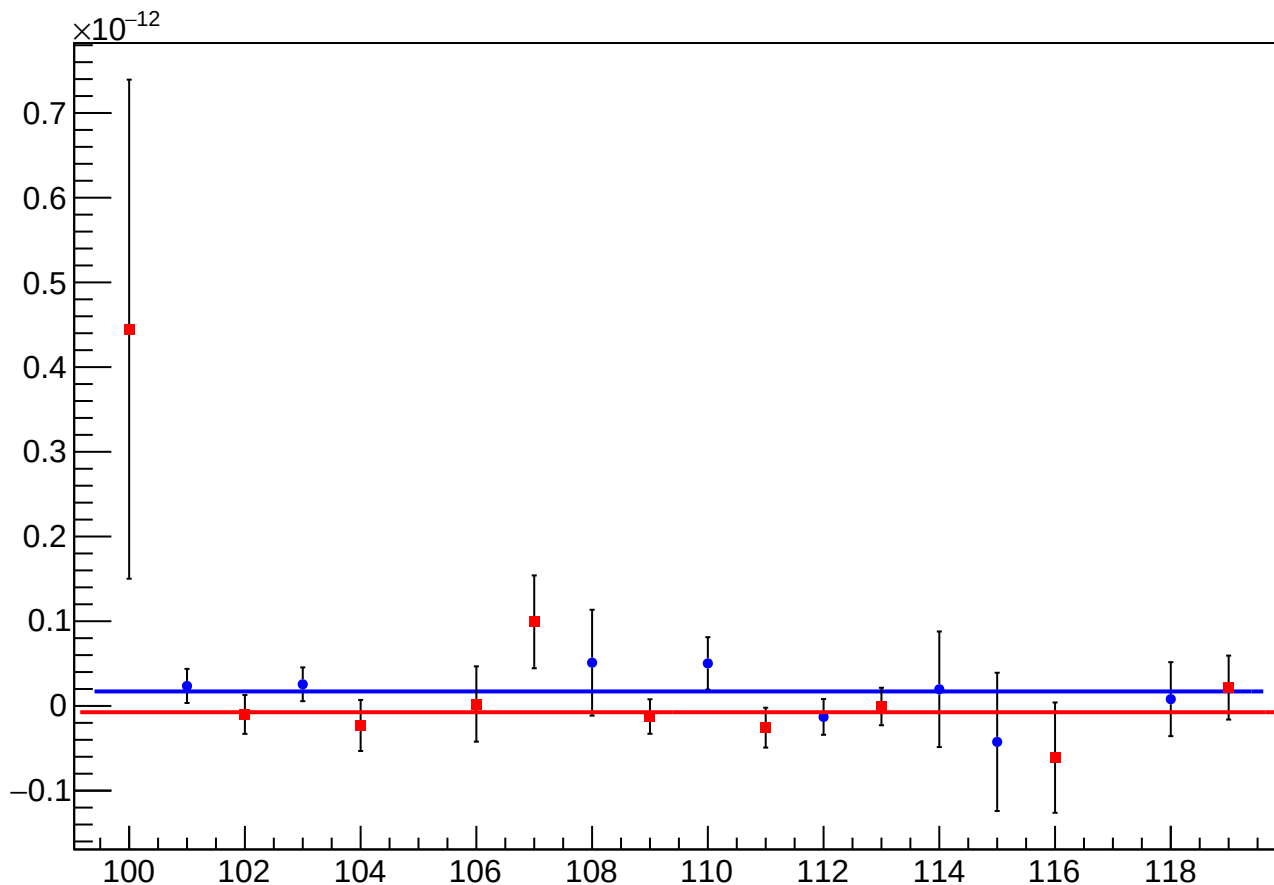
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $22.061 \pm 0.006$   $\chi^2/\text{NDF}: 796353.6/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$



asym\_sam\_1357\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.5/9

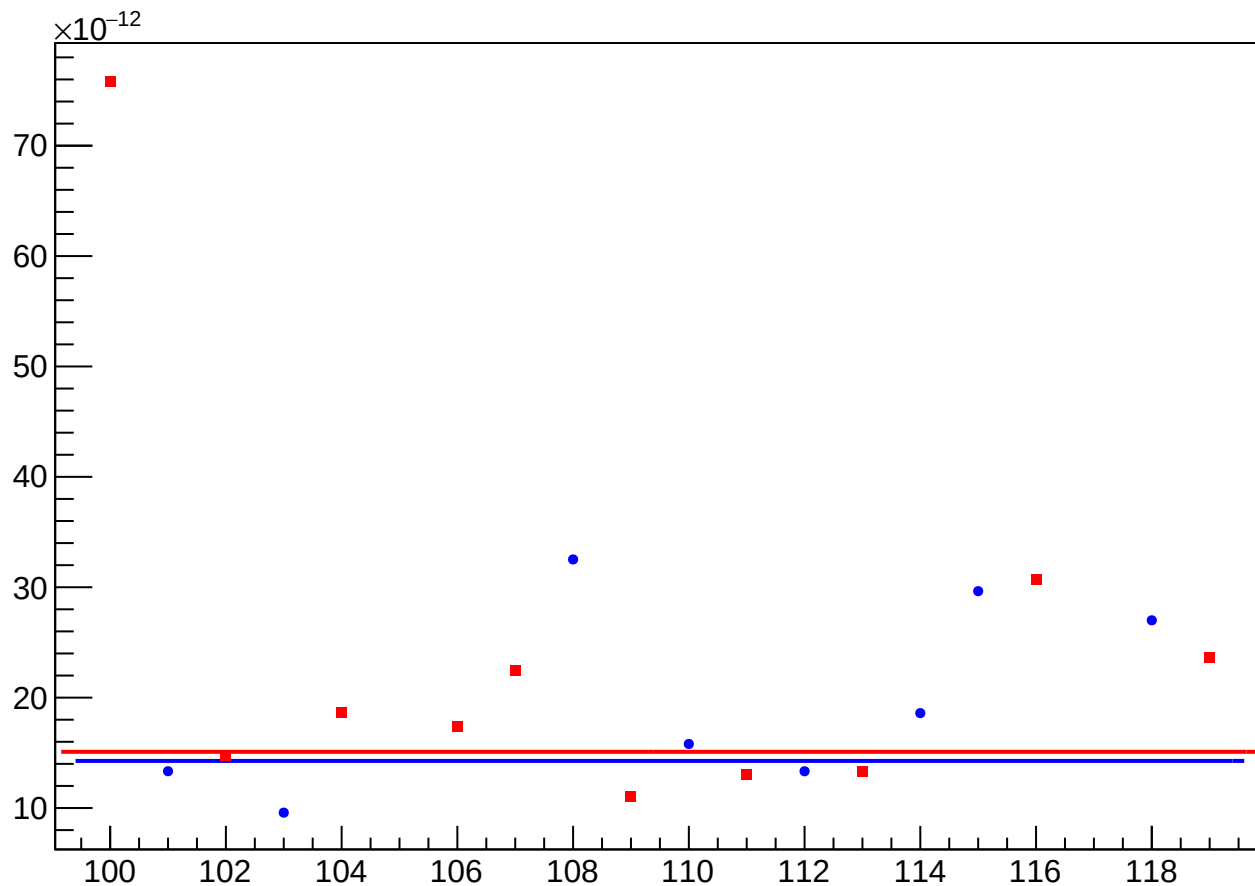
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 543476.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 478666.5/9

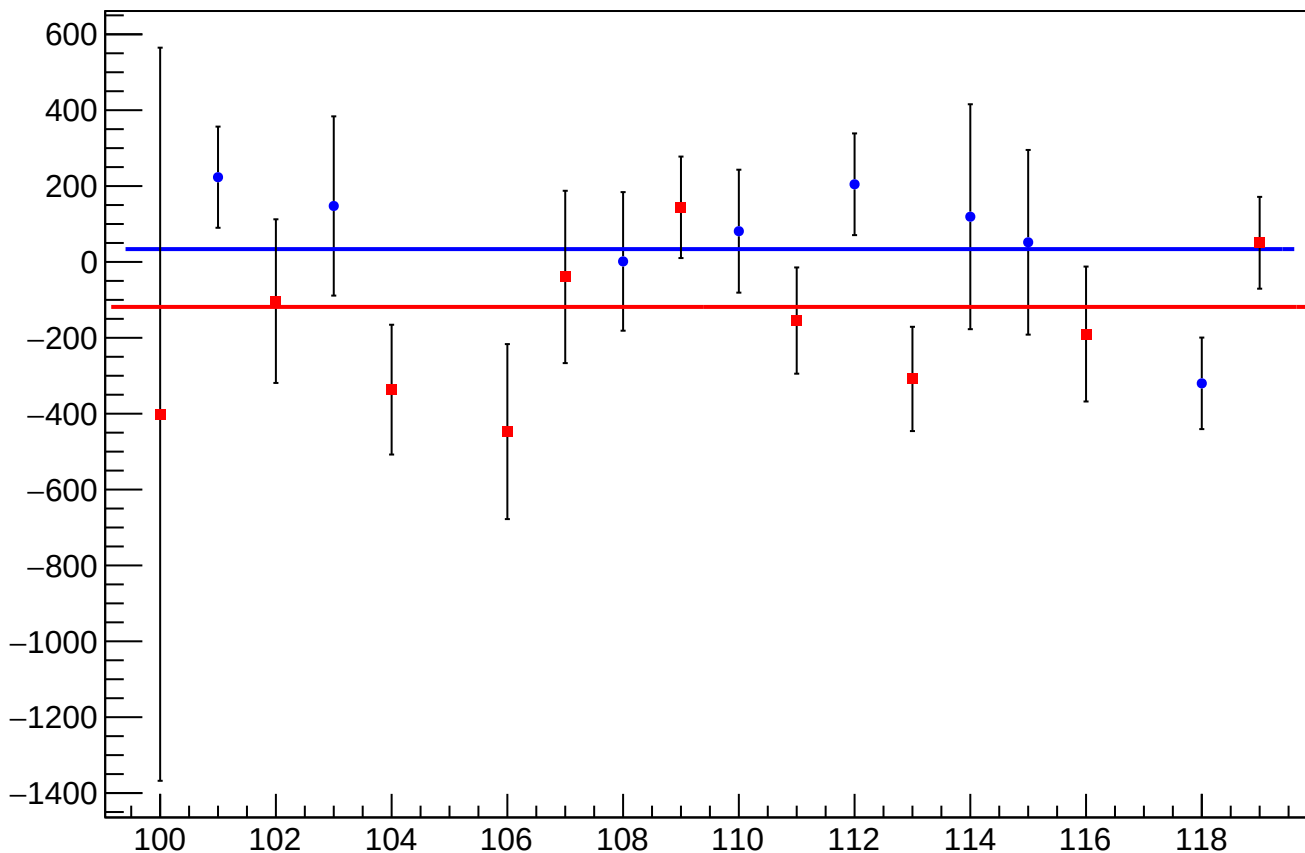
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1029085.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 33.835+/-58.238  $\chi^2/\text{NDF}$ : 12.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -118.562+/-53.100  $\chi^2/\text{NDF}$ : 11.8/9

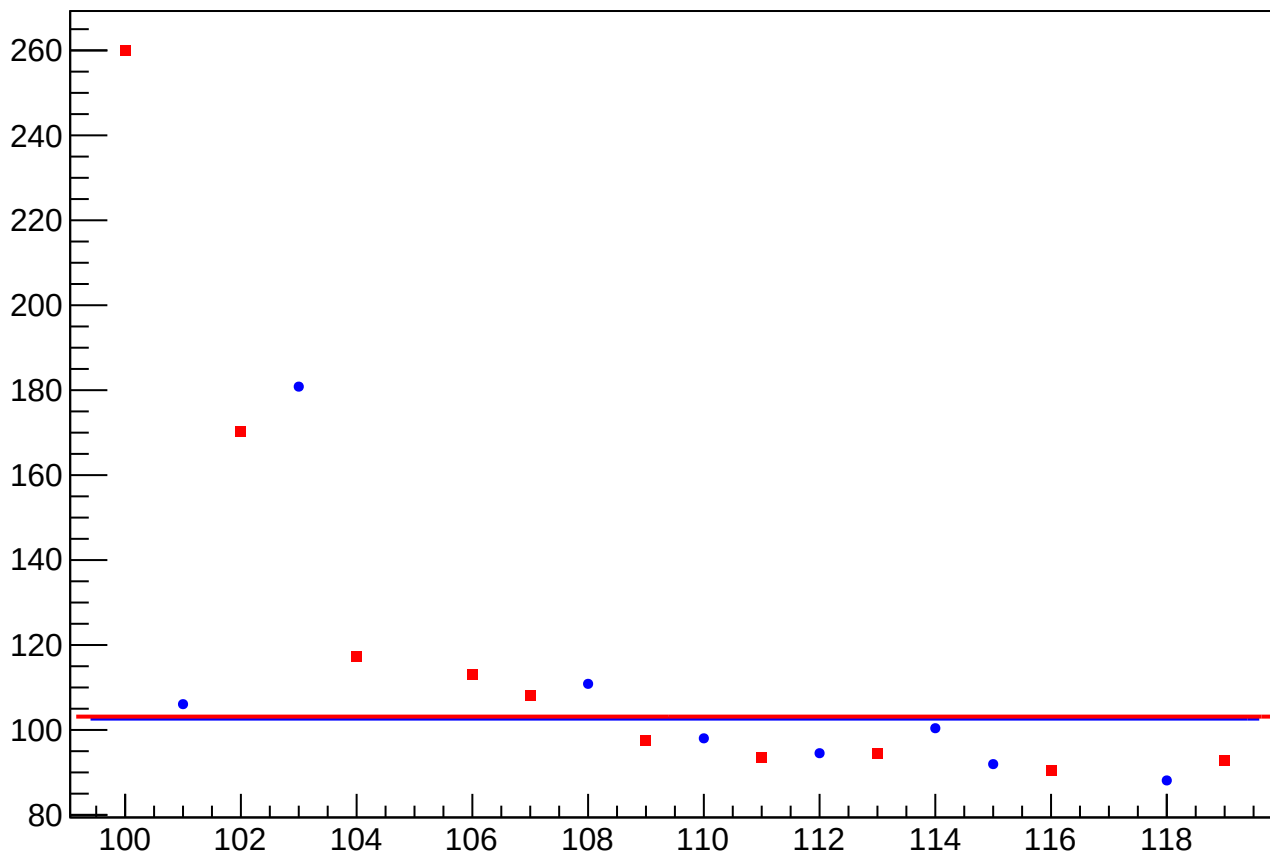
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -49.381+/-39.238  $\chi^2/\text{NDF}$ : 28.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 102.673+/-0.041  $\chi^2/\text{NDF}$ : 266399.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 103.142+/-0.038  $\chi^2/\text{NDF}$ : 311209.4/9

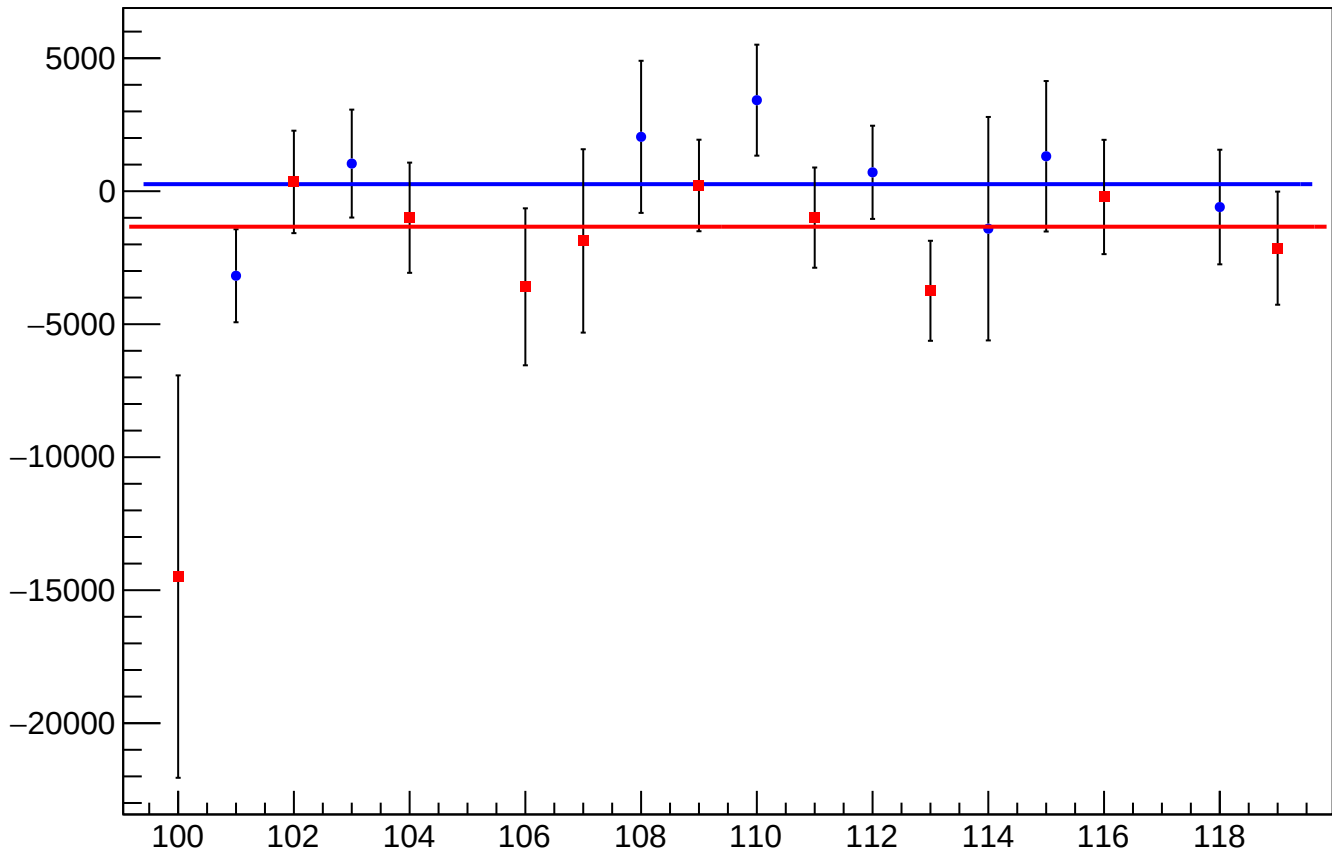
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 102.929+/-0.028  $\chi^2/\text{NDF}$ : 577679.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_reg\_correction\_mean vs Slug



Right In: 264.759+/-779.625  $\chi^2/\text{NDF}$ : 7.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1334.631+/-696.842  $\chi^2/\text{NDF}$ : 7.3/9

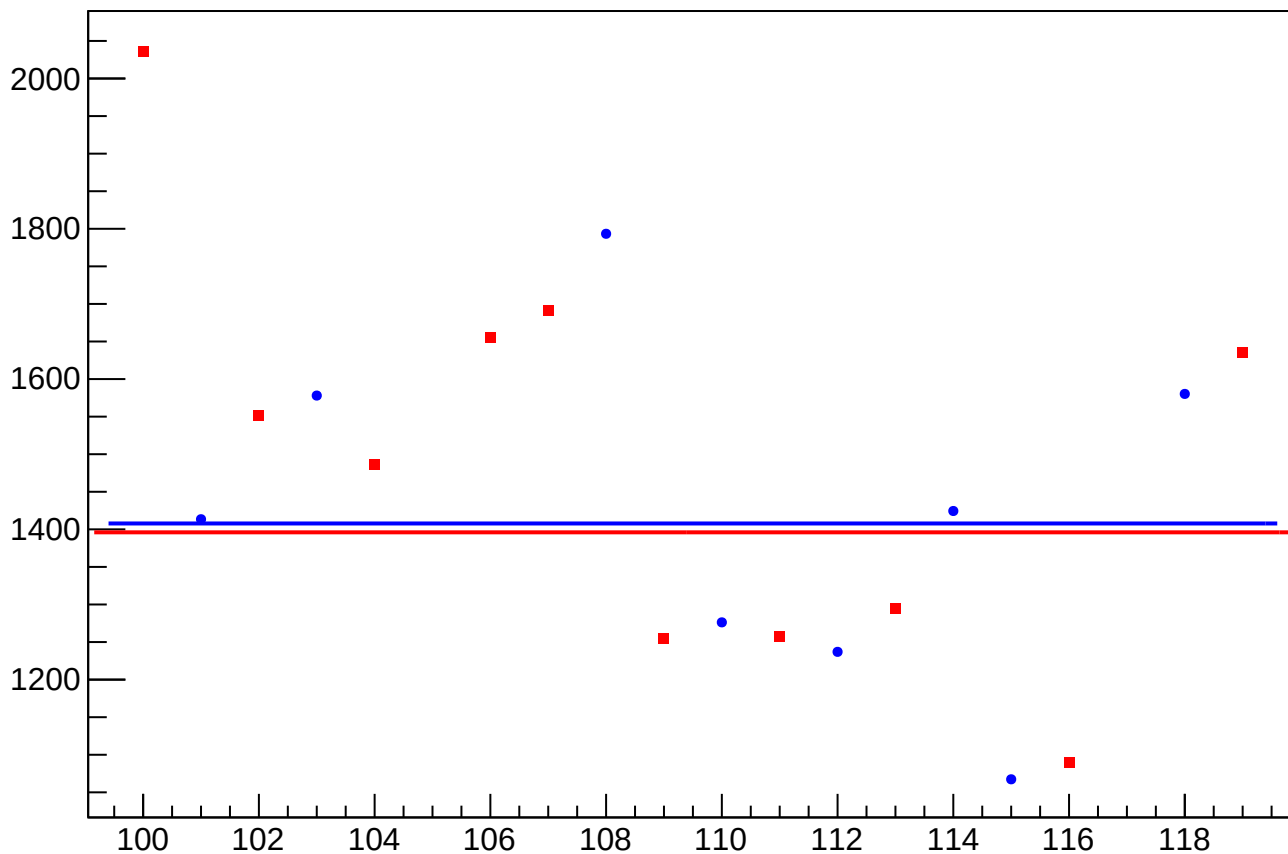
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -624.331+/-519.553  $\chi^2/\text{NDF}$ : 16.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_reg\_correction\_rms vs Slug



Right In: 1407.821+/-0.551  $\chi^2/\text{NDF}$ : 119268.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1396.027+/-0.493  $\chi^2/\text{NDF}$ : 157120.5/9

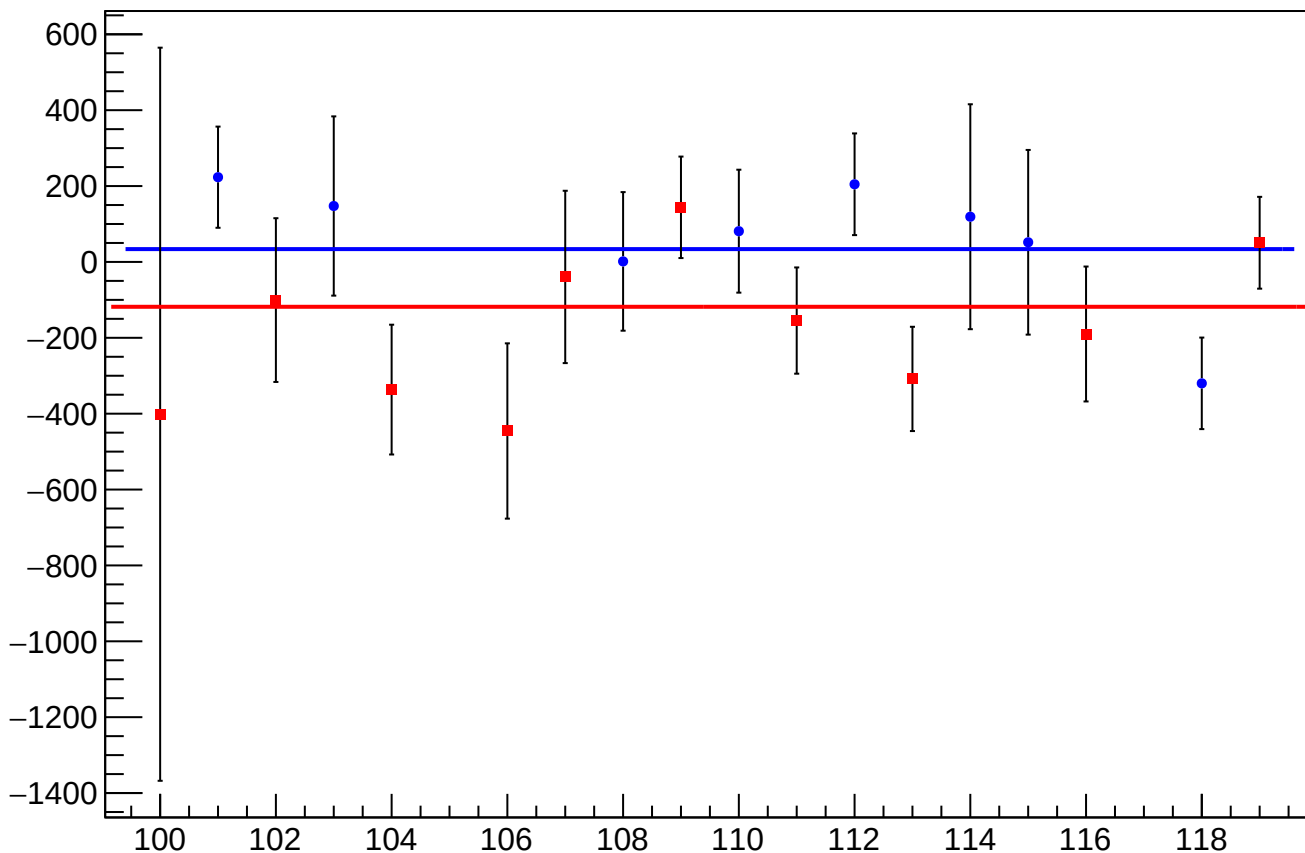
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1401.264+/-0.367  $\chi^2/\text{NDF}$ : 276643.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 33.818 $\pm$ 58.238  $\chi^2$ /NDF: 12.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -118.234 $\pm$ 53.107  $\chi^2$ /NDF: 11.8/9

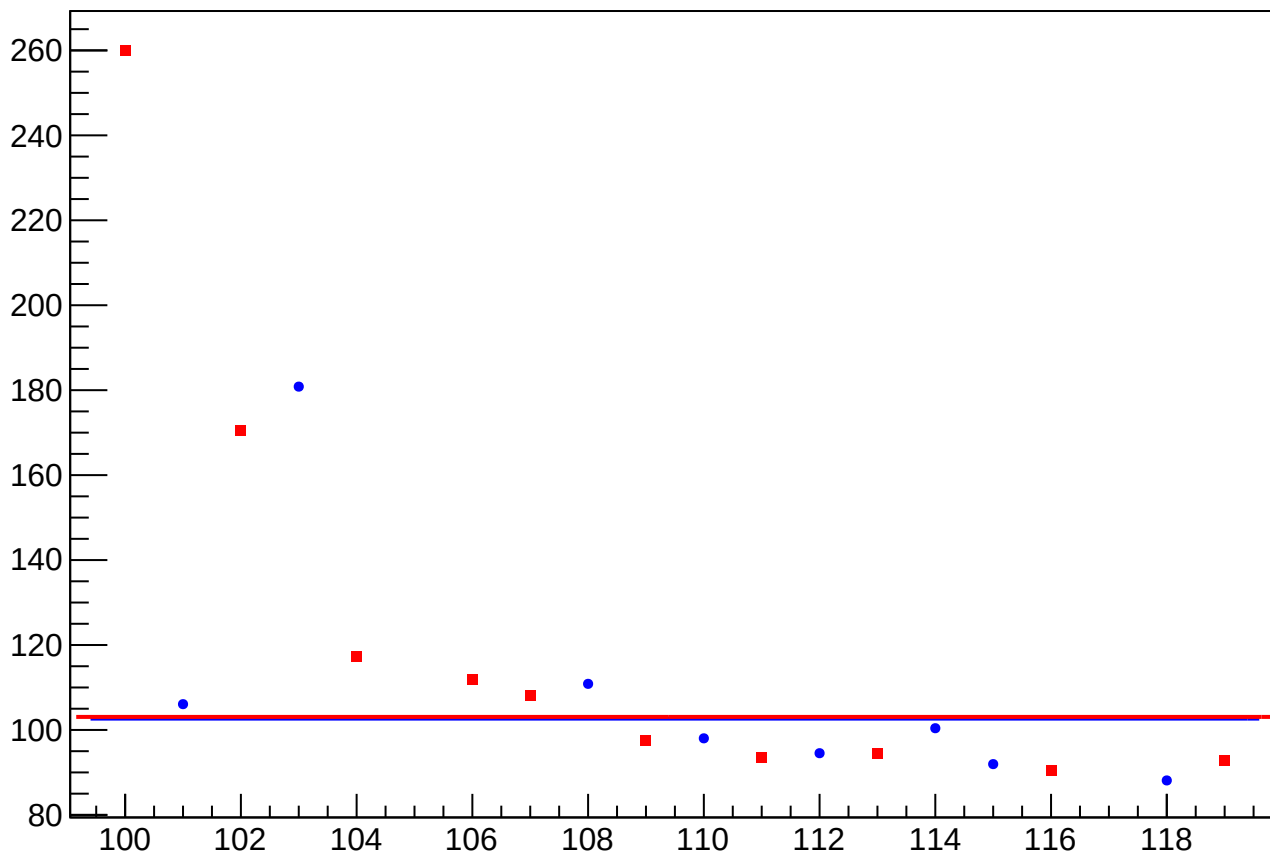
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -49.200 $\pm$ 39.241  $\chi^2$ /NDF: 28.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 102.673+/-0.041  $\chi^2/\text{NDF}$ : 266402.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 103.071+/-0.038  $\chi^2/\text{NDF}$ : 310567.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

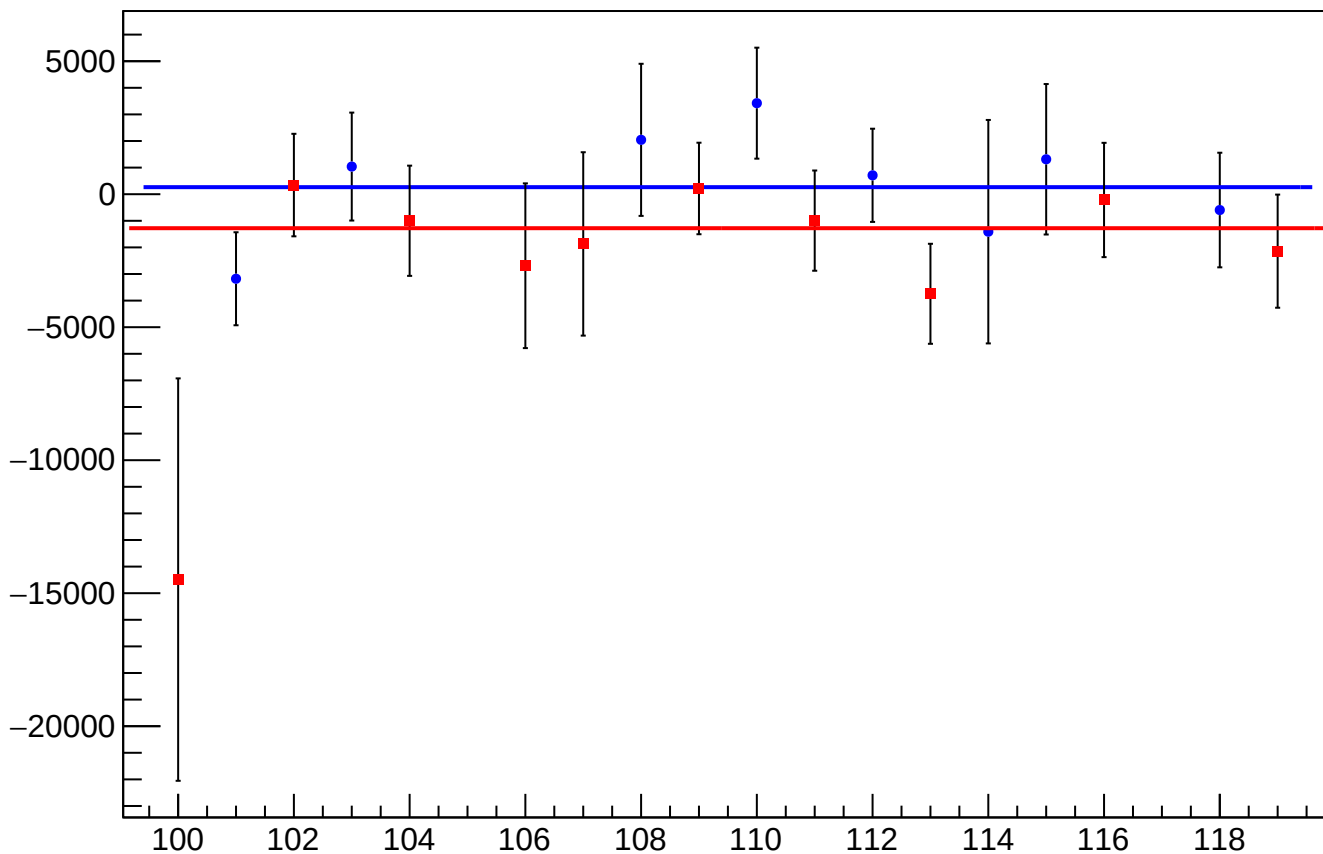
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 102.890+/-0.028  $\chi^2/\text{NDF}$ : 577021.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_2468\_avg\_cor\_correction\_mean vs Slug



Right In: 264.864+/-779.633  $\chi^2/\text{NDF}$ : 7.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1278.071+/-698.692  $\chi^2/\text{NDF}$ : 6.9/9

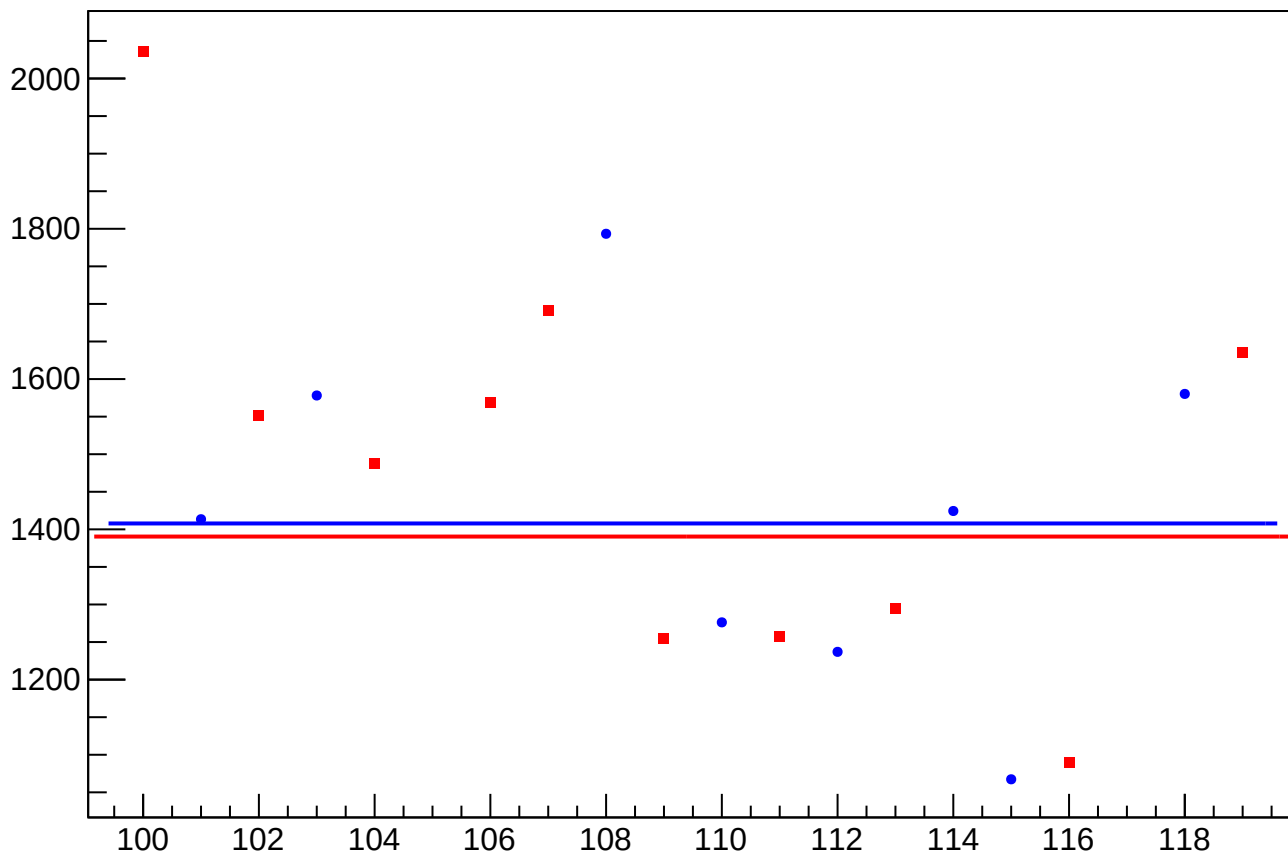
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -590.829+/-520.321  $\chi^2/\text{NDF}$ : 16.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_cor\_correction\_rms vs Slug



Right In: 1407.832 $\pm$ 0.551  $\chi^2$ /NDF: 119285.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1390.400 $\pm$ 0.494  $\chi^2$ /NDF: 147948.8/9

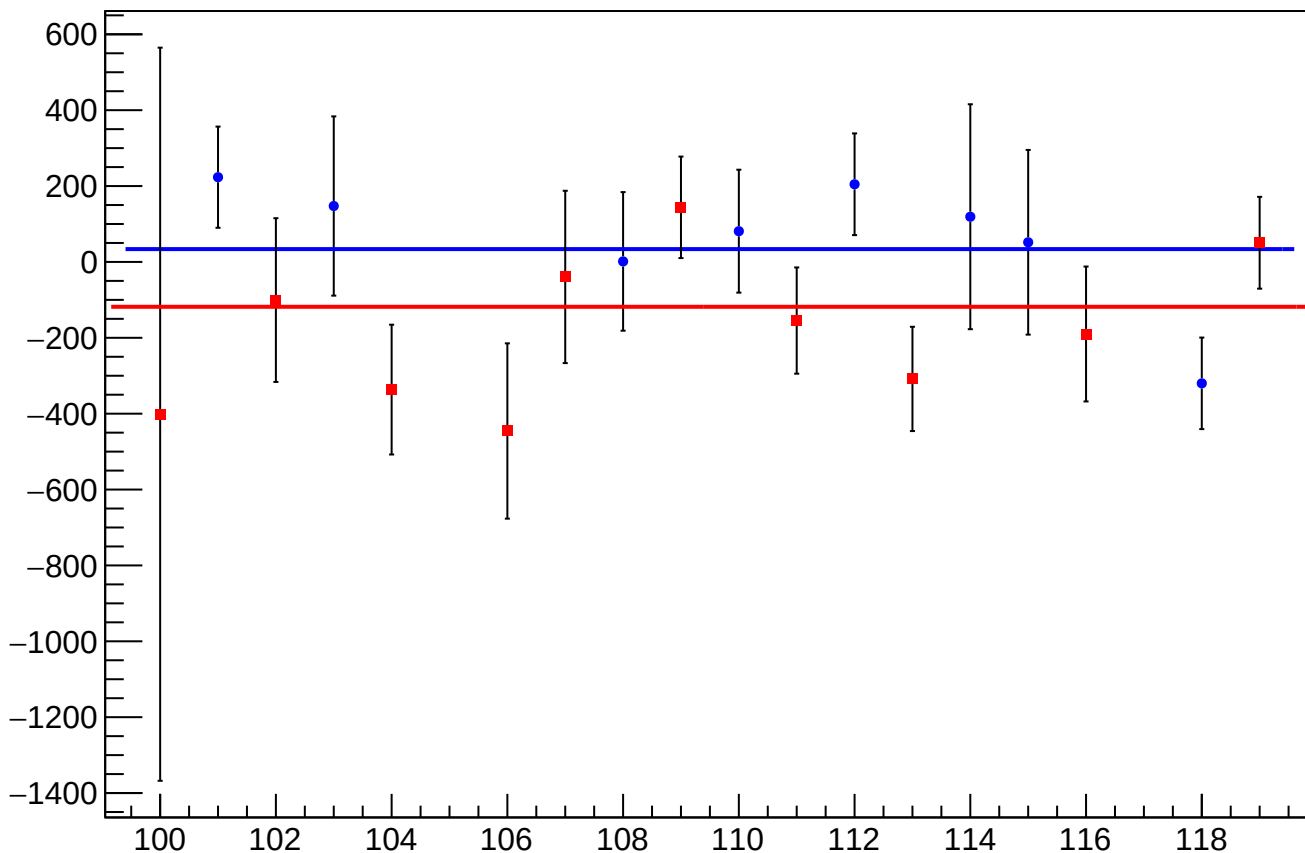
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1398.165 $\pm$ 0.368  $\chi^2$ /NDF: 267788.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 33.818 $\pm$ 58.238  $\chi^2$ /NDF: 12.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -118.234 $\pm$ 53.107  $\chi^2$ /NDF: 11.8/9

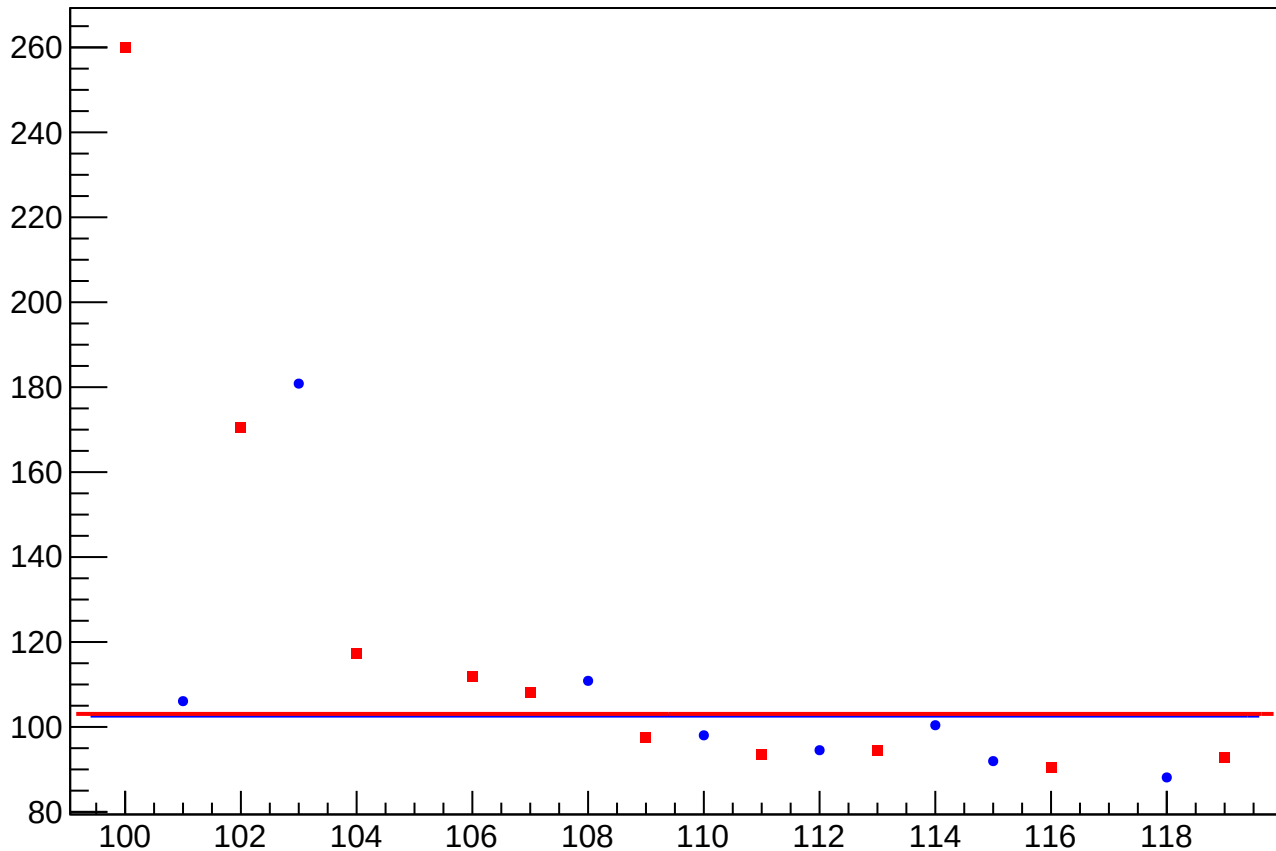
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -49.200 $\pm$ 39.241  $\chi^2$ /NDF: 28.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 102.673 $\pm$ 0.041  $\chi^2$ /NDF: 266402.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.071 $\pm$ 0.038  $\chi^2$ /NDF: 310567.5/9

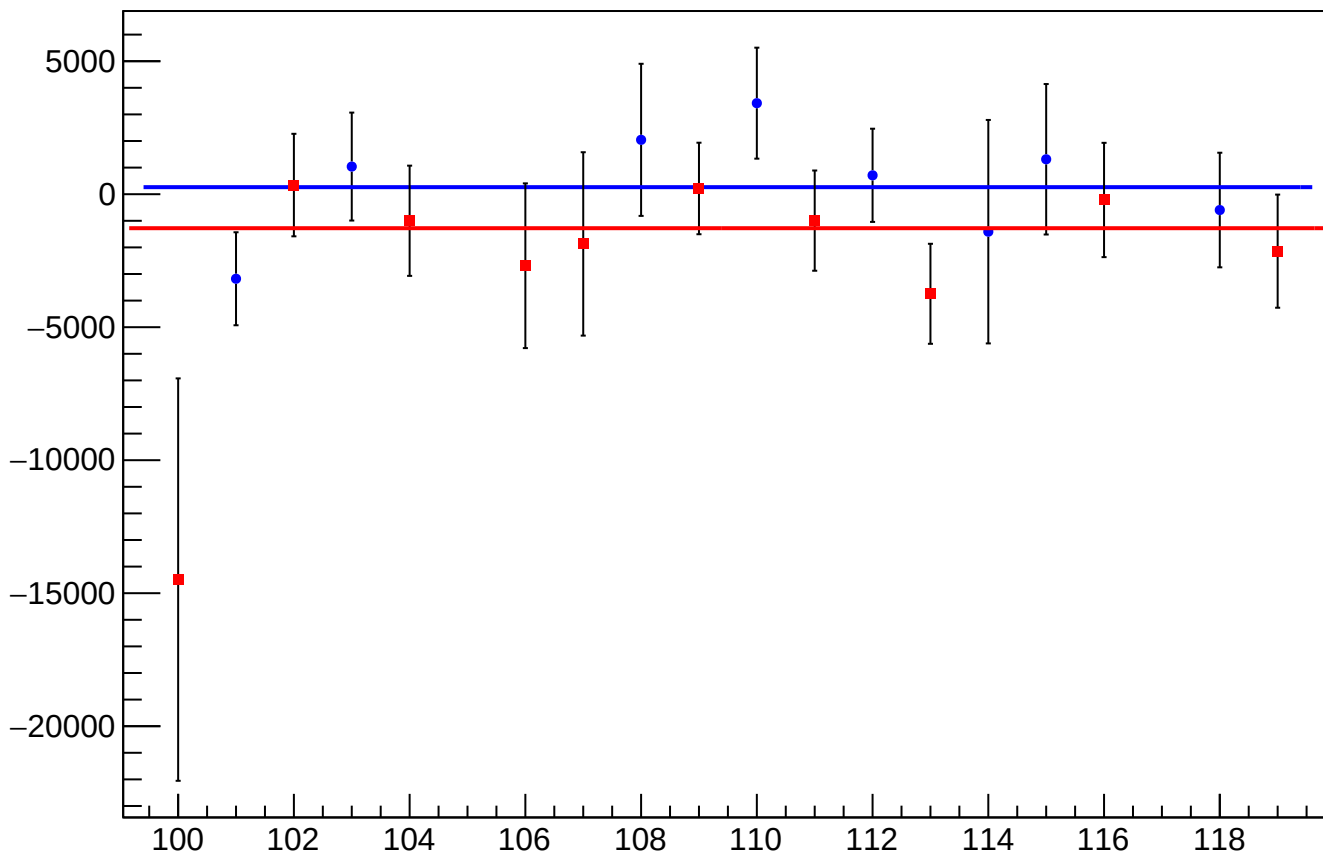
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 102.890 $\pm$ 0.028  $\chi^2$ /NDF: 577021.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 264.864+/-779.633  $\chi^2/\text{NDF}$ : 7.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1278.071+/-698.692  $\chi^2/\text{NDF}$ : 6.9/9

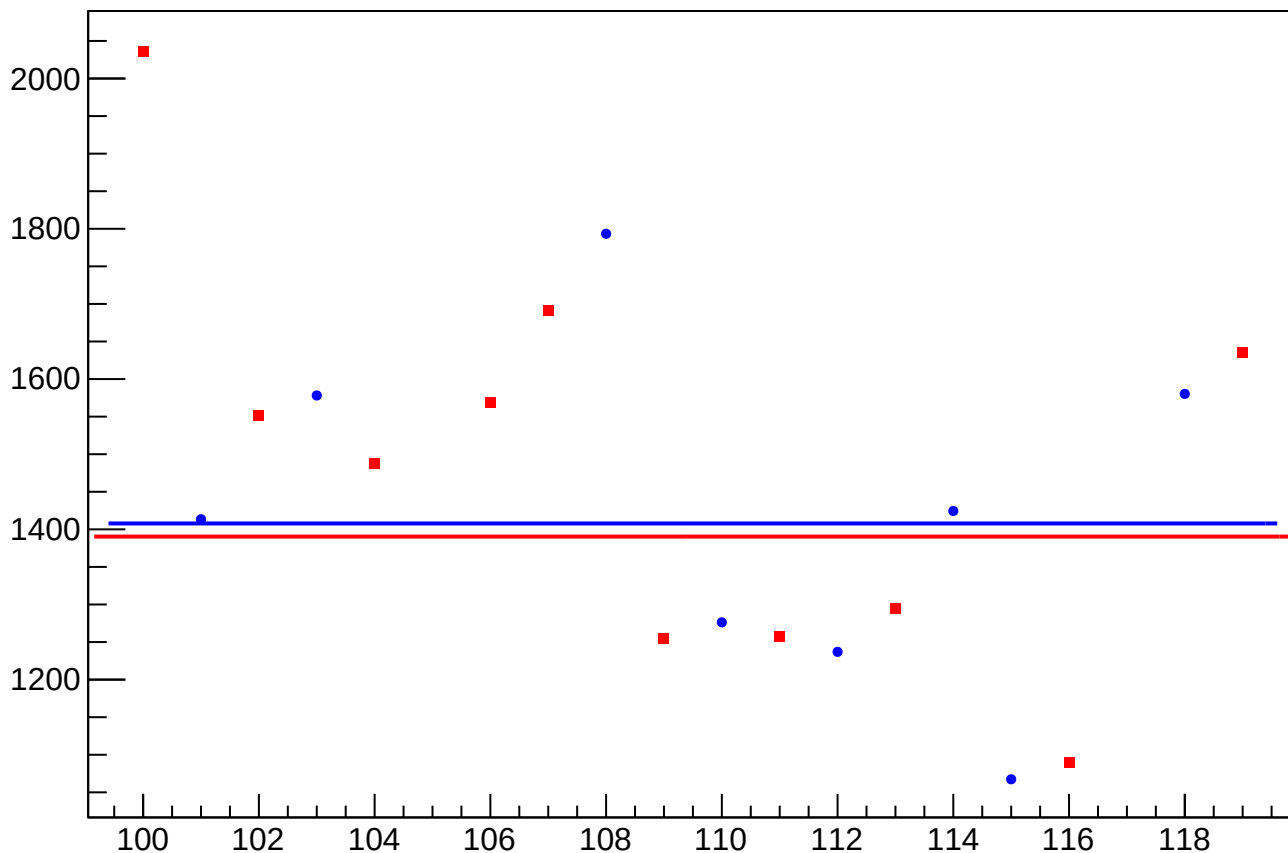
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -590.829+/-520.321  $\chi^2/\text{NDF}$ : 16.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1407.832 $\pm$ 0.551  $\chi^2$ /NDF: 119285.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1390.400 $\pm$ 0.494  $\chi^2$ /NDF: 147948.8/9

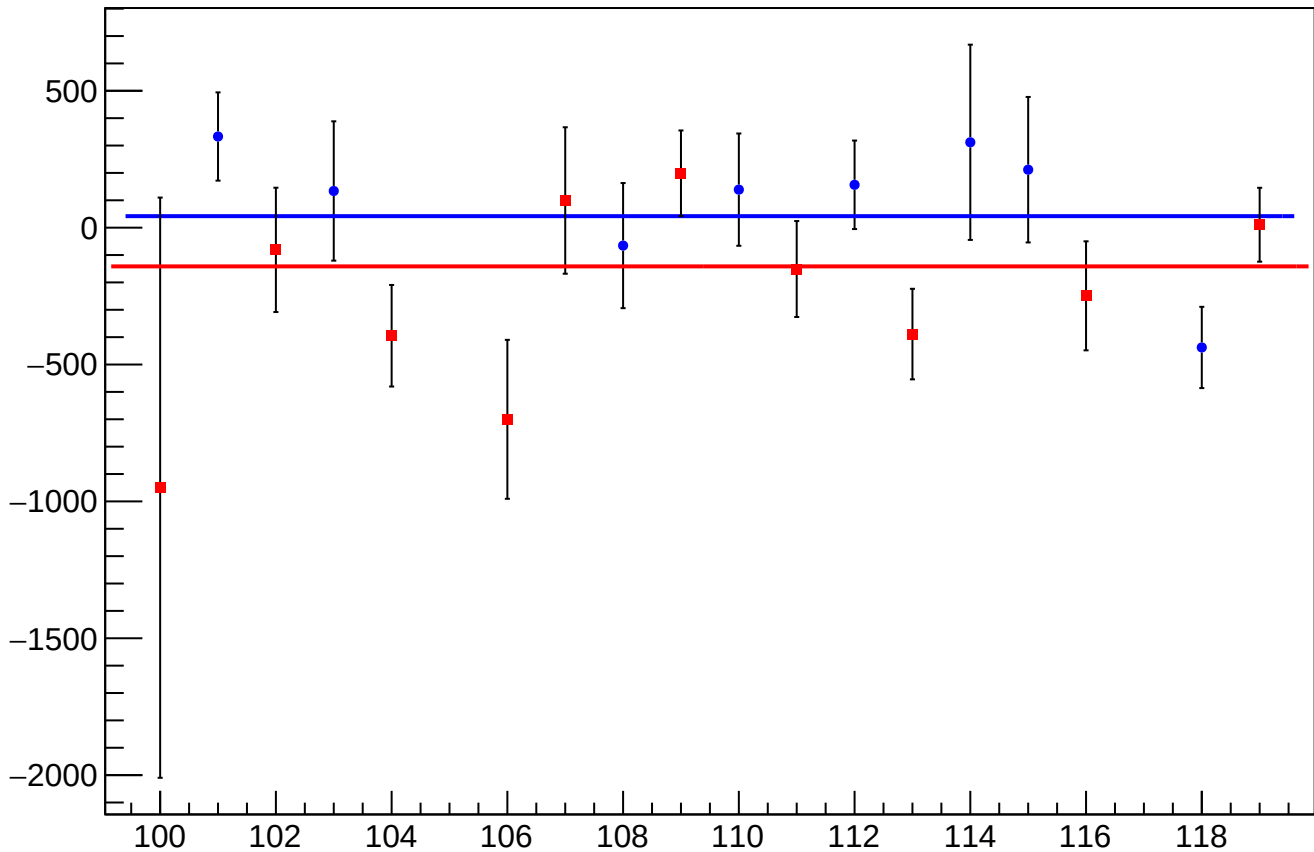
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1398.165 $\pm$ 0.368  $\chi^2$ /NDF: 267788.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 42.021+/-70.270  $\chi^2/\text{NDF}$ : 15.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -141.460+/-61.403  $\chi^2/\text{NDF}$ : 15.6/9

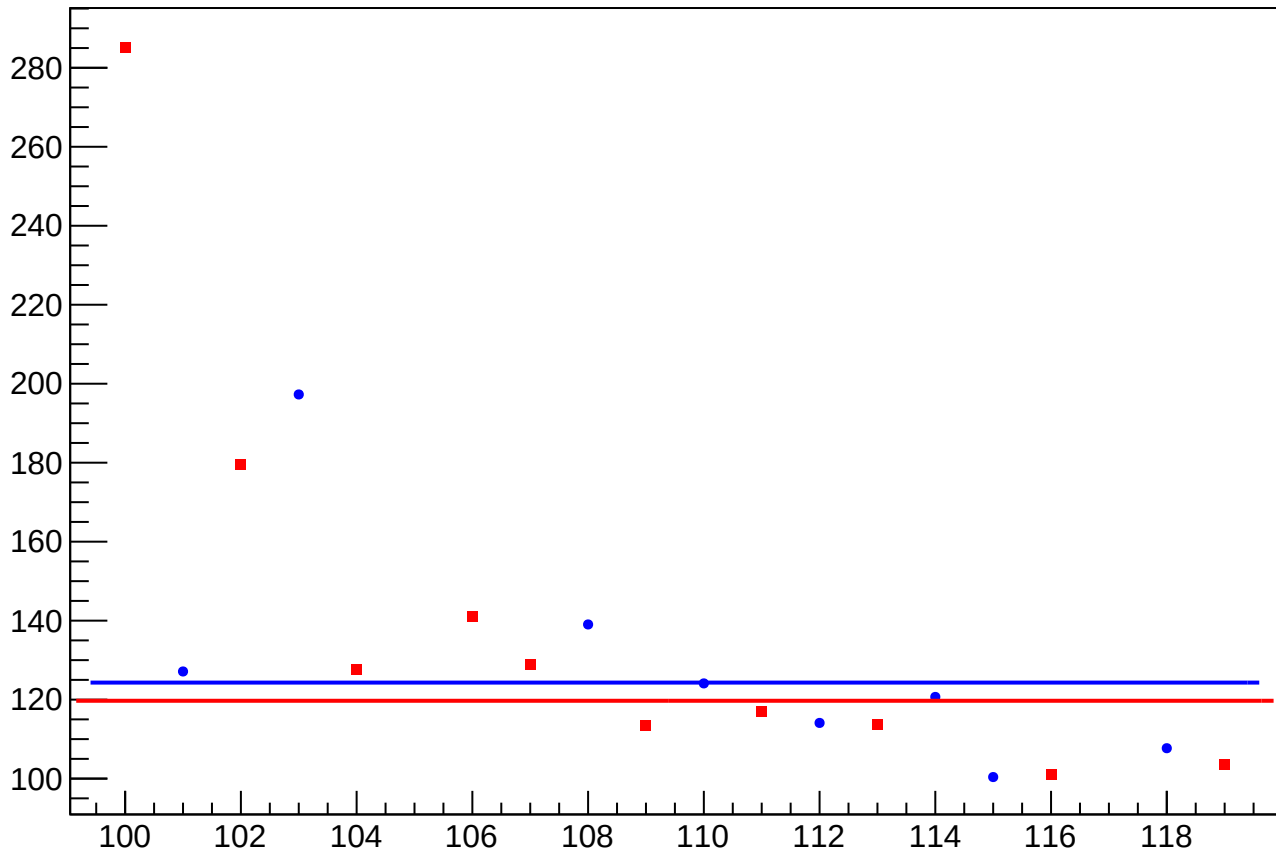
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -62.020+/-46.238  $\chi^2/\text{NDF}$ : 35.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 124.315 $\pm$ 0.050  $\chi^2$ /NDF: 222772.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 119.711 $\pm$ 0.043  $\chi^2$ /NDF: 256821.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

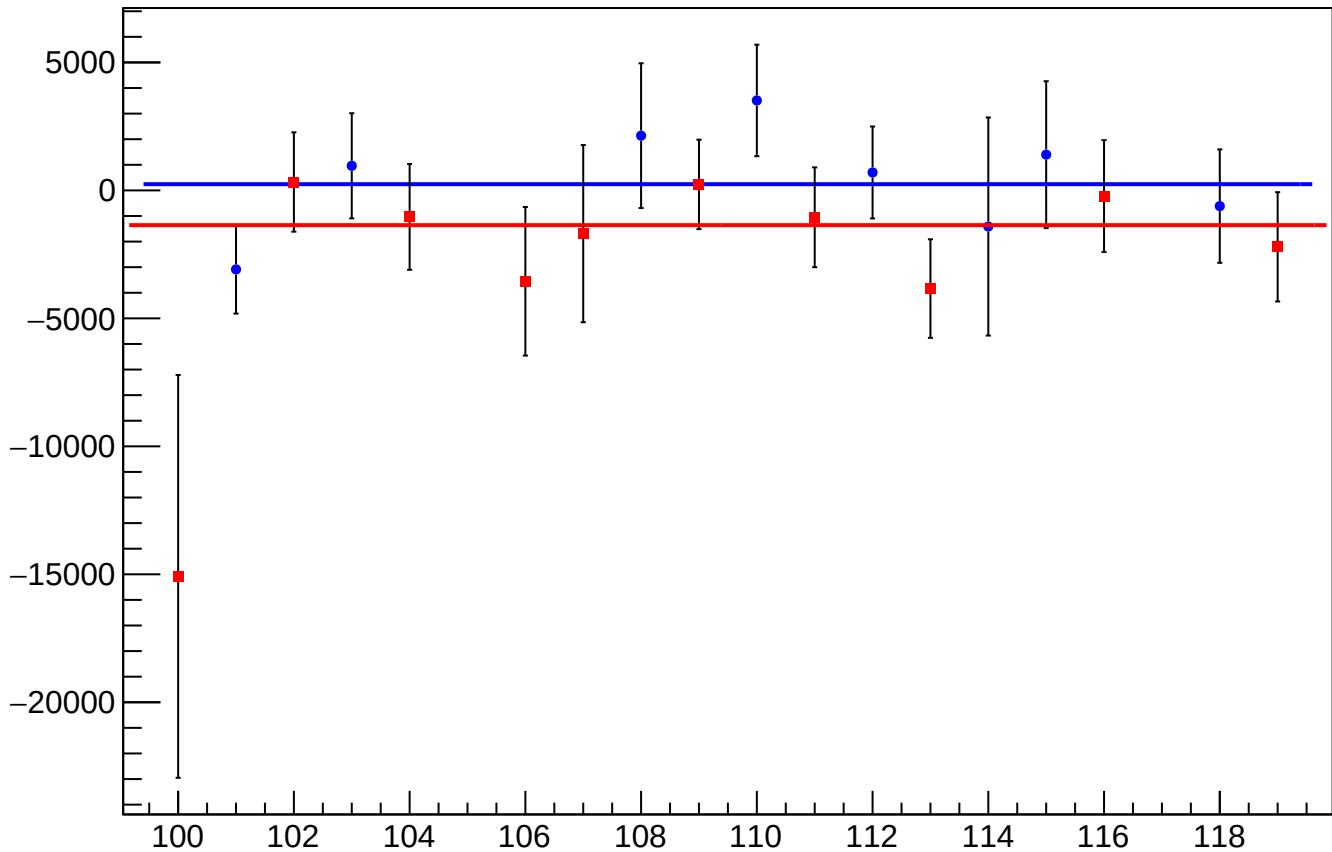
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 121.705 $\pm$ 0.033  $\chi^2$ /NDF: 484462.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_2468\_avg\_dit\_correction\_mean vs Slug



Right In: 242.561 $\pm$ 791.173  $\chi^2$ /NDF: 7.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1357.753 $\pm$ 705.928  $\chi^2$ /NDF: 7.3/9

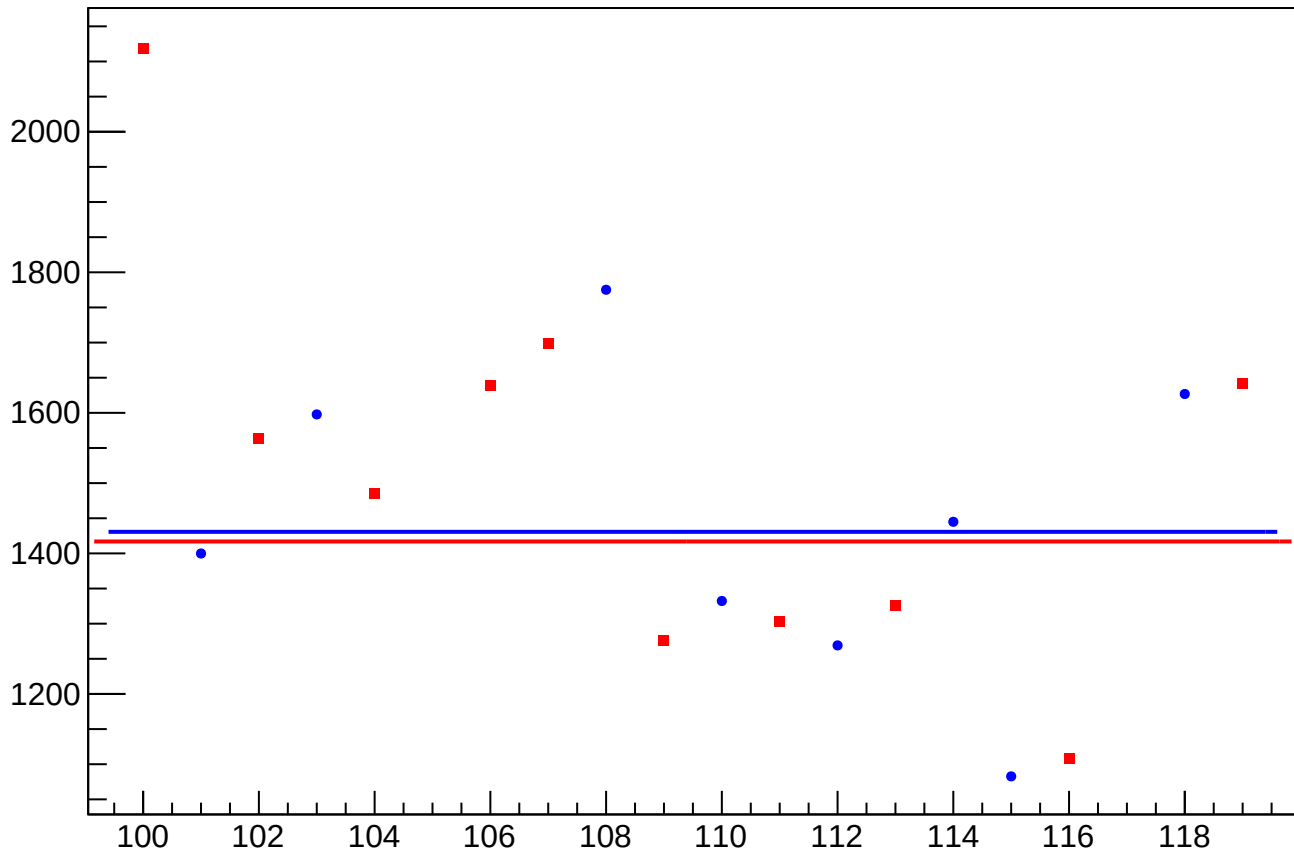
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -648.424 $\pm$ 526.736  $\chi^2$ /NDF: 16.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_2468\_avg\_dit\_correction\_rms vs Slug



Right In: 1430.693+/-0.559  $\chi^2/\text{NDF}$ : 108943.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1416.956+/-0.499  $\chi^2/\text{NDF}$ : 140588.0/9

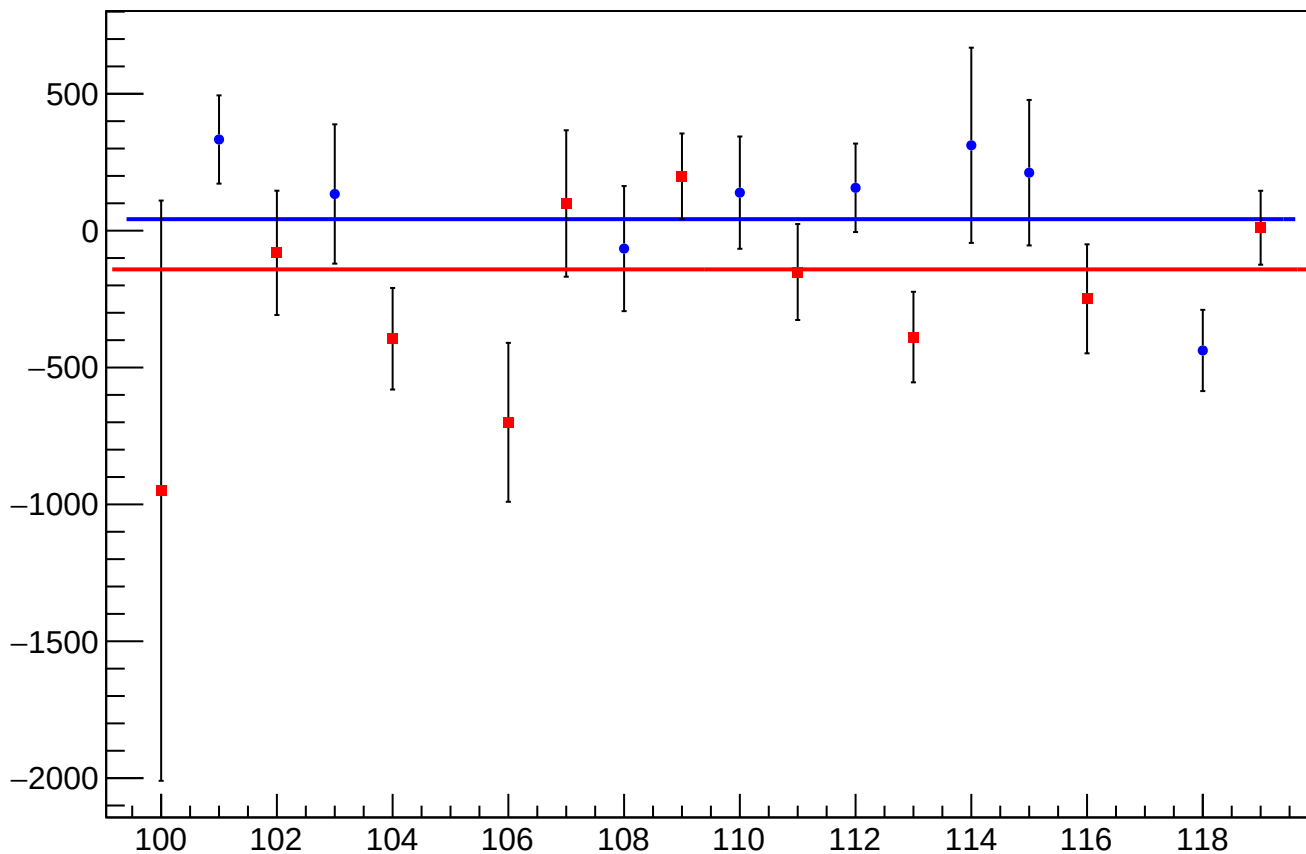
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1423.045+/-0.372  $\chi^2/\text{NDF}$ : 249867.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 42.019+/-70.270  $\chi^2/\text{NDF}$ : 15.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -141.458+/-61.403  $\chi^2/\text{NDF}$ : 15.6/9

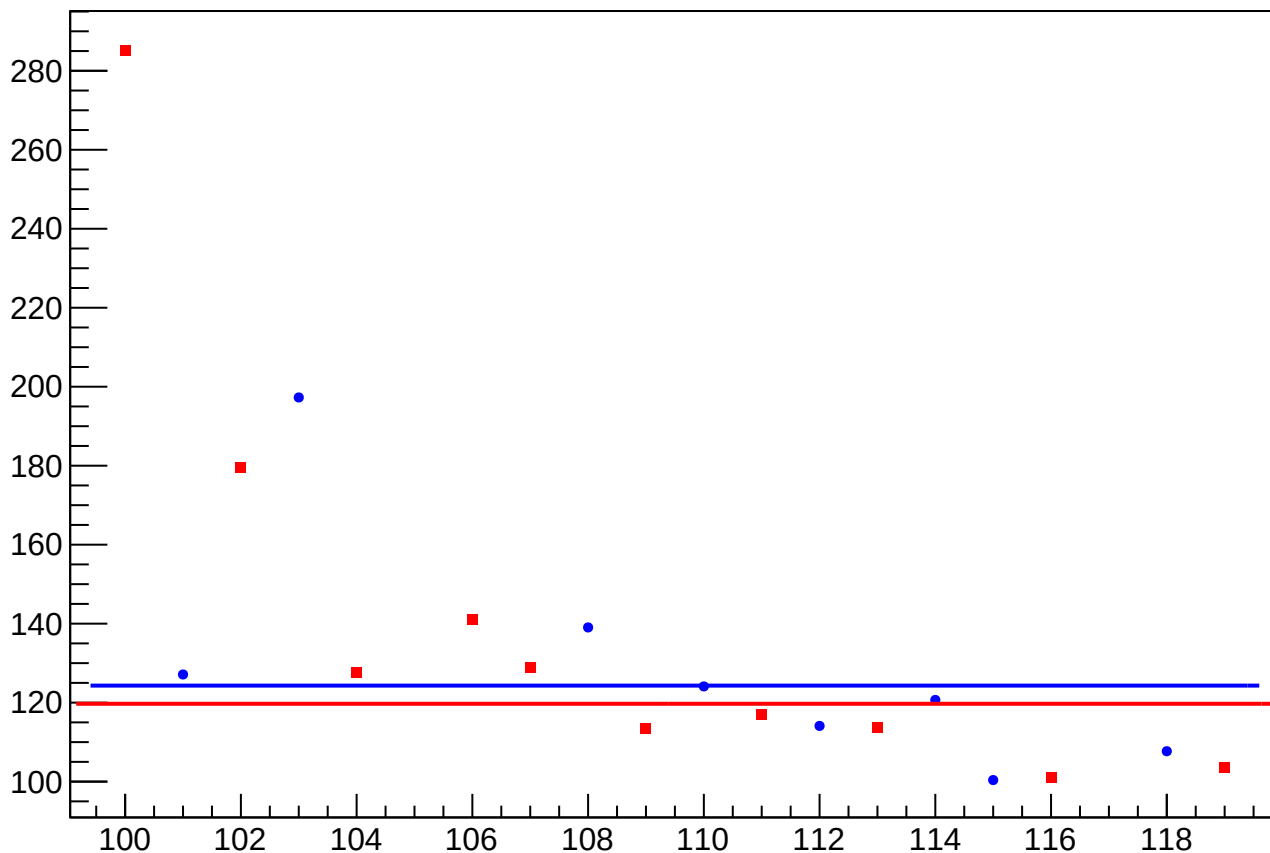
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -62.019+/-46.237  $\chi^2/\text{NDF}$ : 35.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 124.314 $\pm$ 0.050  $\chi^2$ /NDF: 222776.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 119.710 $\pm$ 0.043  $\chi^2$ /NDF: 256822.1/9

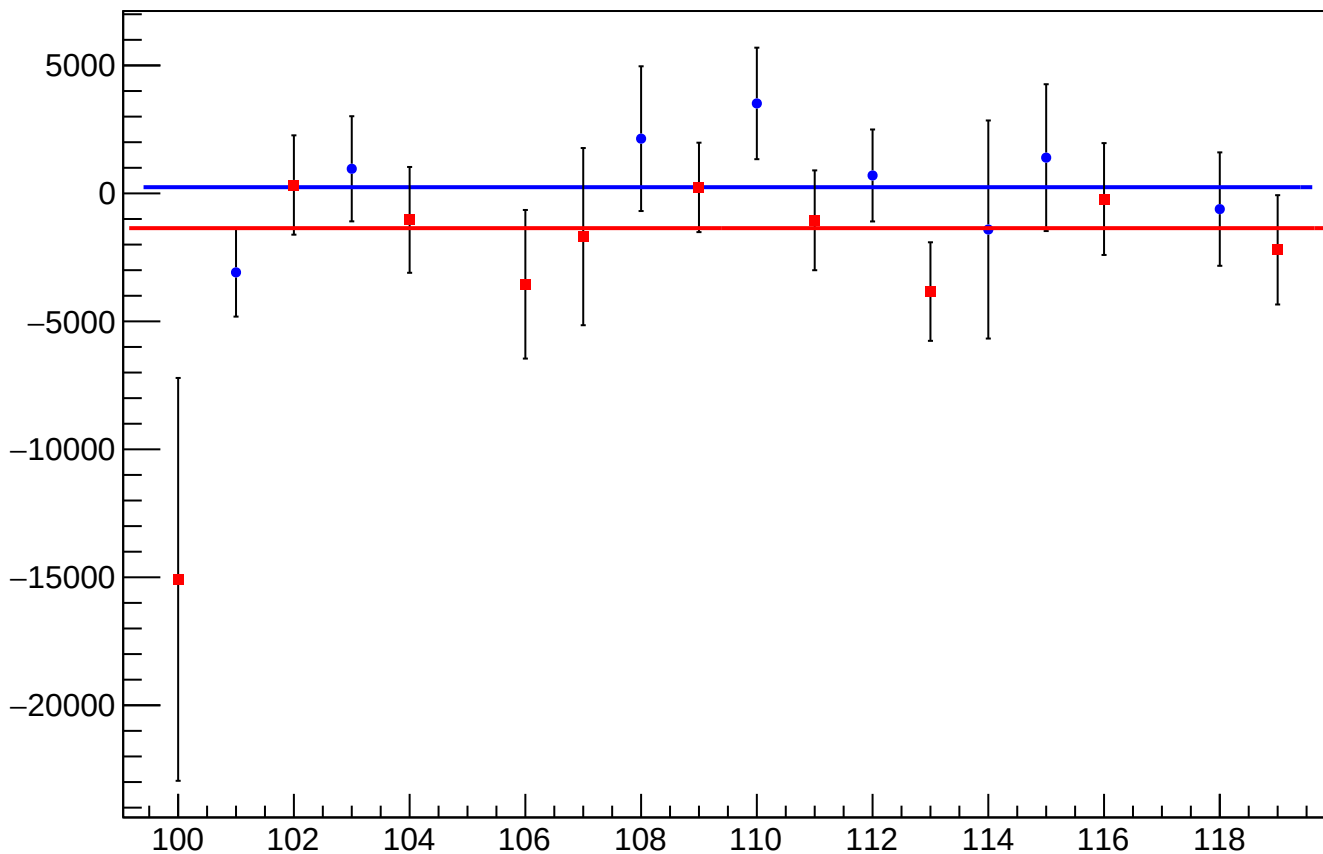
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 121.704 $\pm$ 0.033  $\chi^2$ /NDF: 484466.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 242.563 $\pm$ 791.171  $\chi^2$ /NDF: 7.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1357.750 $\pm$ 705.926  $\chi^2$ /NDF: 7.3/9

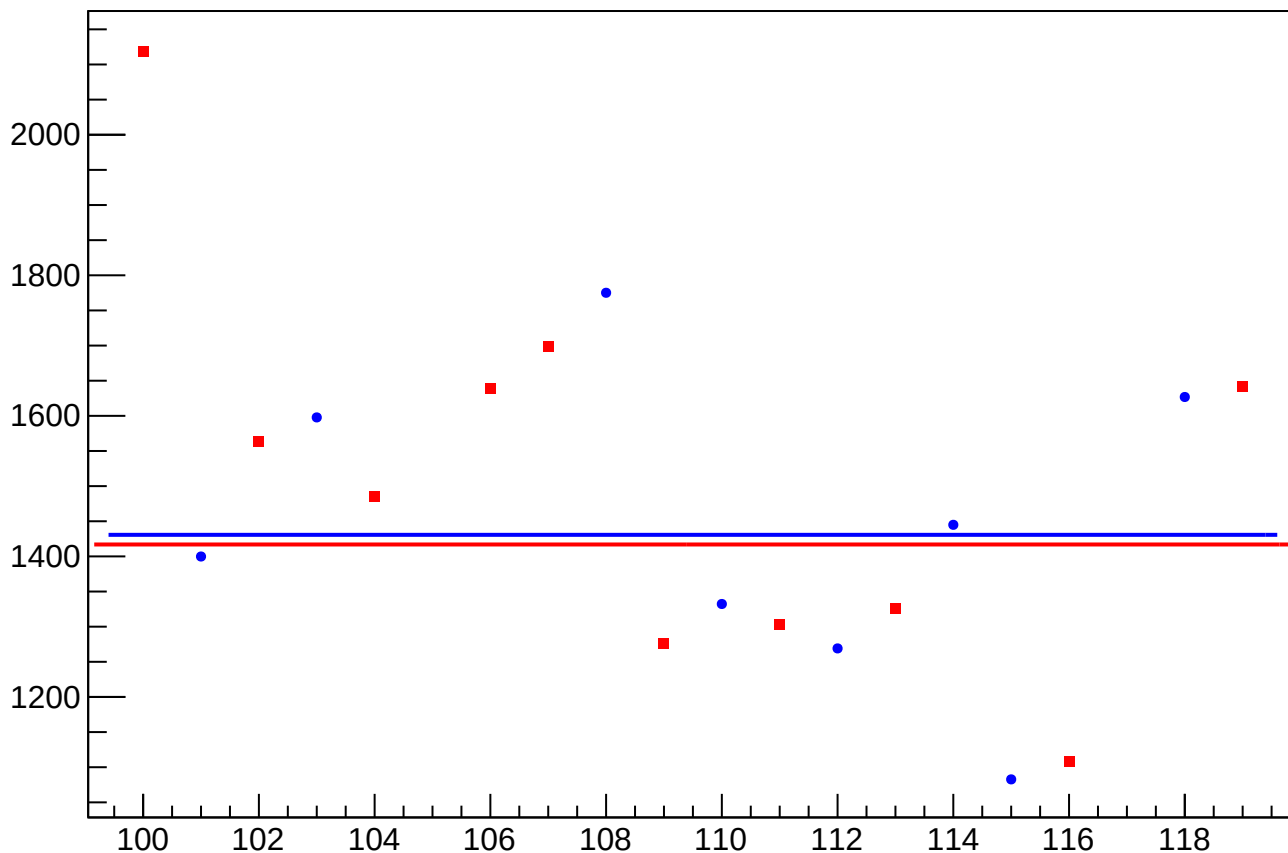
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -648.422 $\pm$ 526.734  $\chi^2$ /NDF: 16.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1430.688 $\pm$ 0.559  $\chi^2$ /NDF: 108944.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1416.951 $\pm$ 0.499  $\chi^2$ /NDF: 140589.2/9

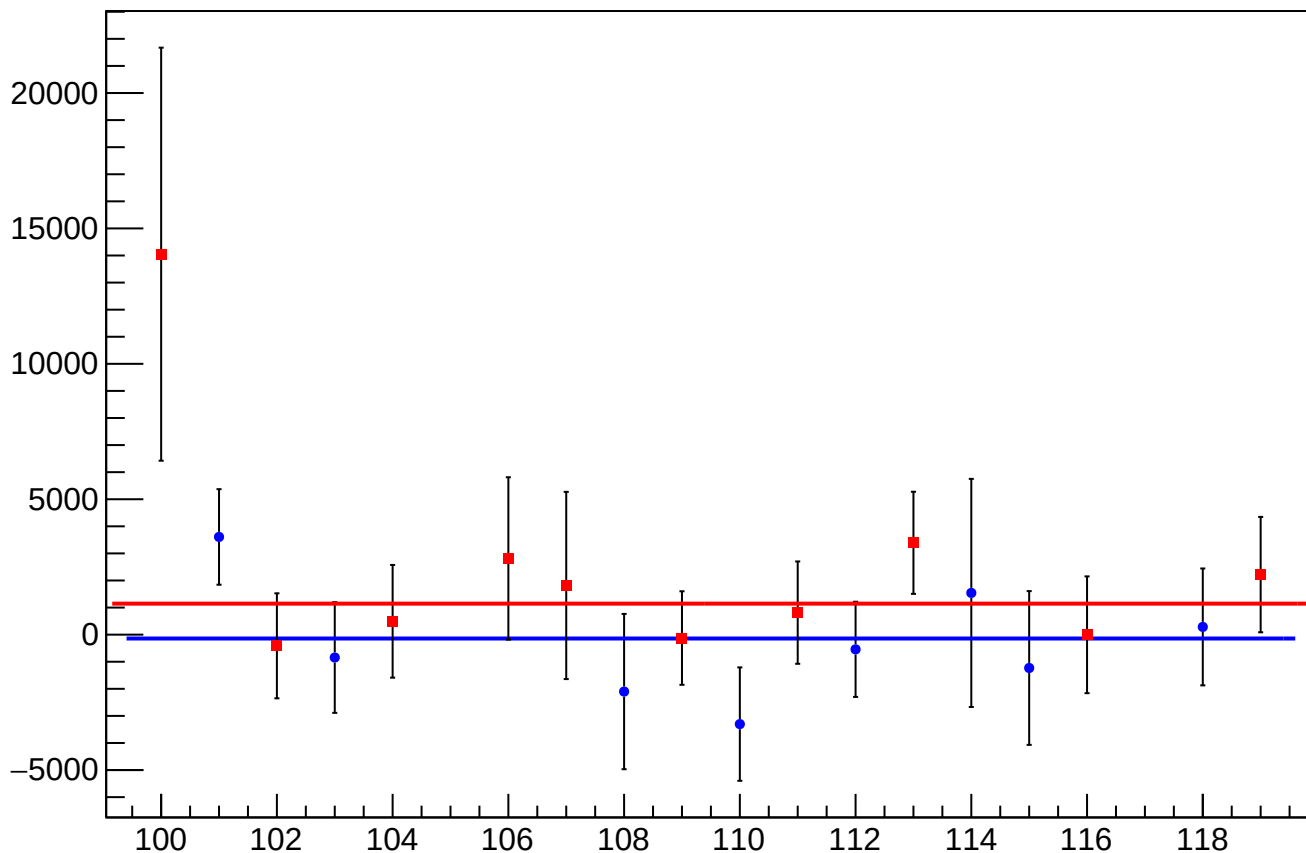
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1423.040 $\pm$ 0.372  $\chi^2$ /NDF: 249869.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_2468\_avg\_mean vs Slug



Right In: -142.467+/-783.337  $\chi^2/\text{NDF}$ : 7.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1145.487+/-699.905  $\chi^2/\text{NDF}$ : 6.5/9

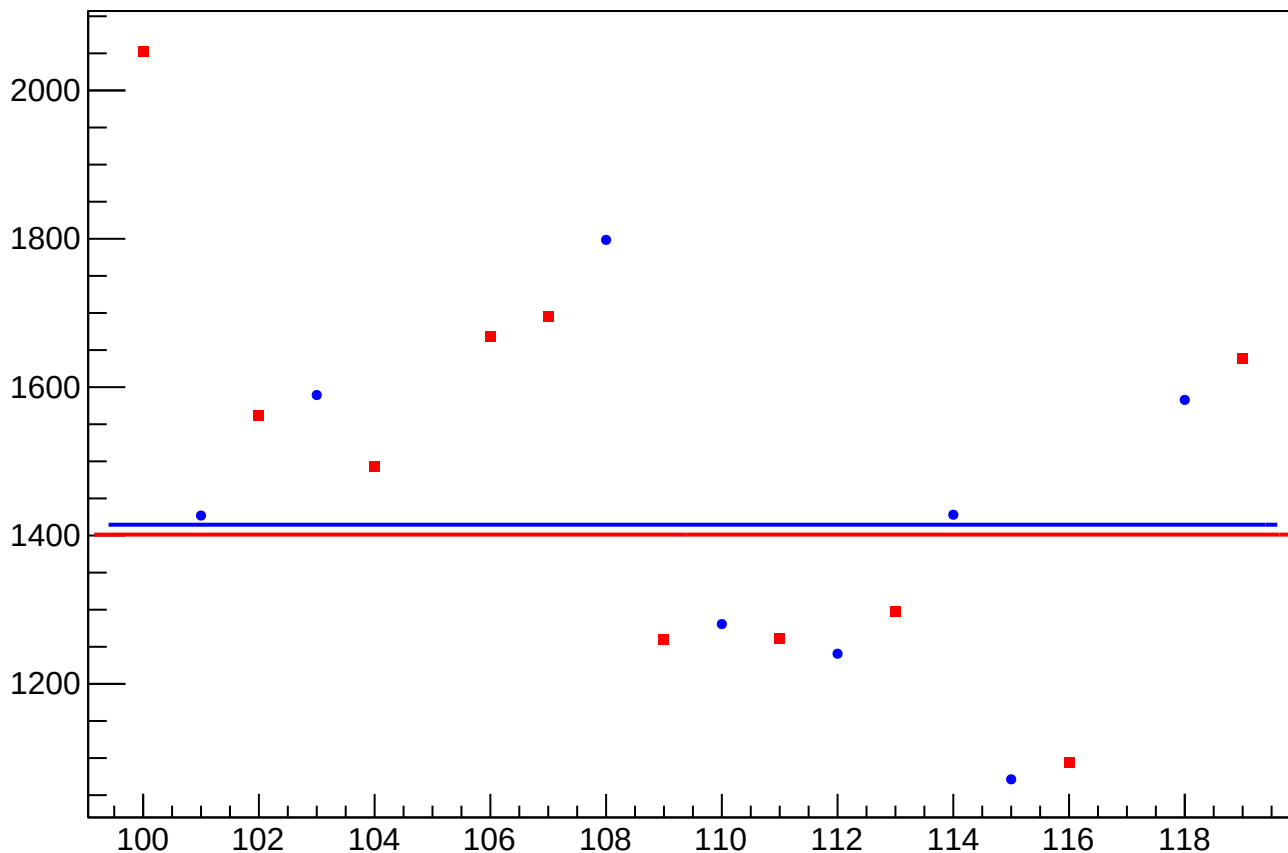
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 573.728+/-521.921  $\chi^2/\text{NDF}$ : 15.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_2468\_avg\_rms vs Slug



Right In: 1414.557+/-0.554  $\chi^2/\text{NDF}$ : 119785.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1401.246+/-0.495  $\chi^2/\text{NDF}$ : 158411.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

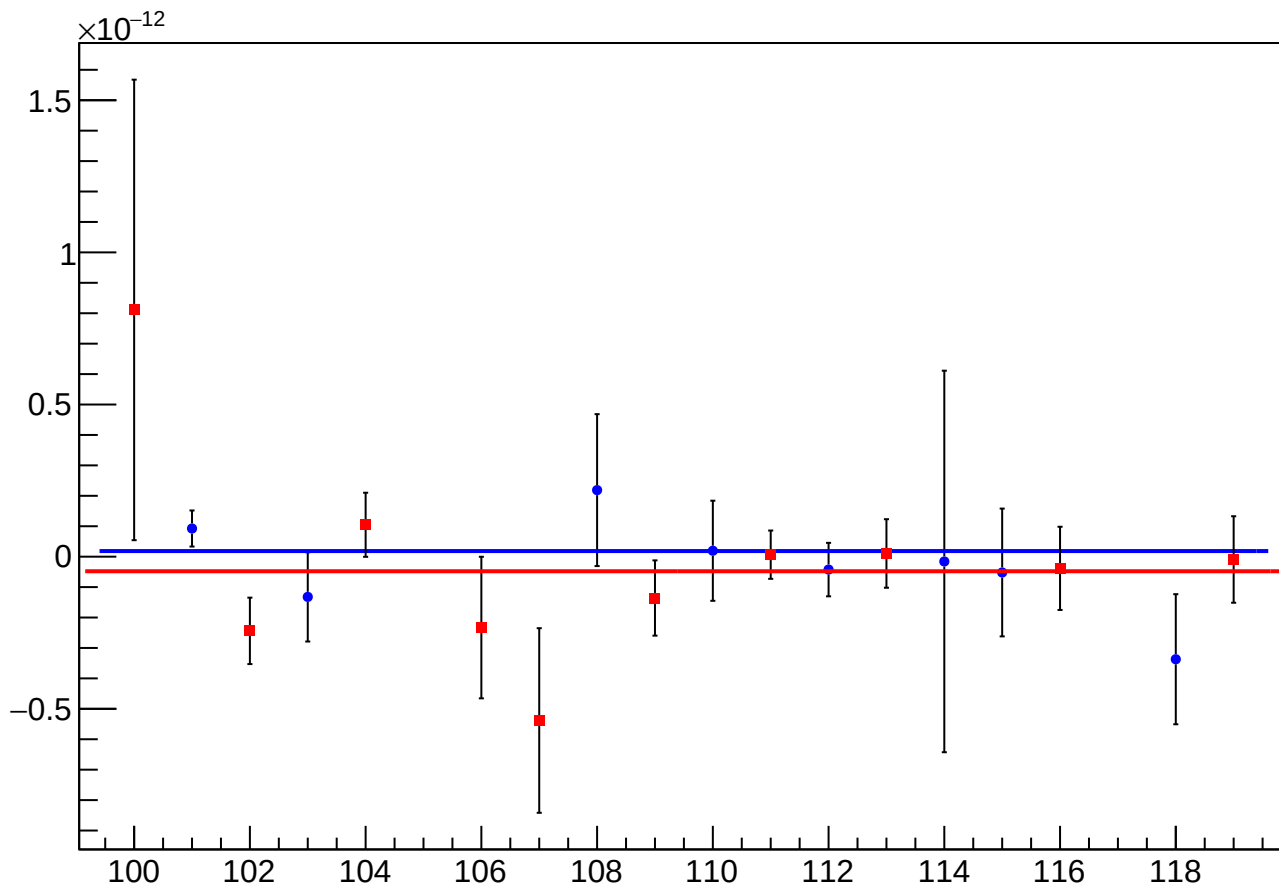
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1407.155+/-0.369  $\chi^2/\text{NDF}$ : 278518.5/17

- 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: 6.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.2/9

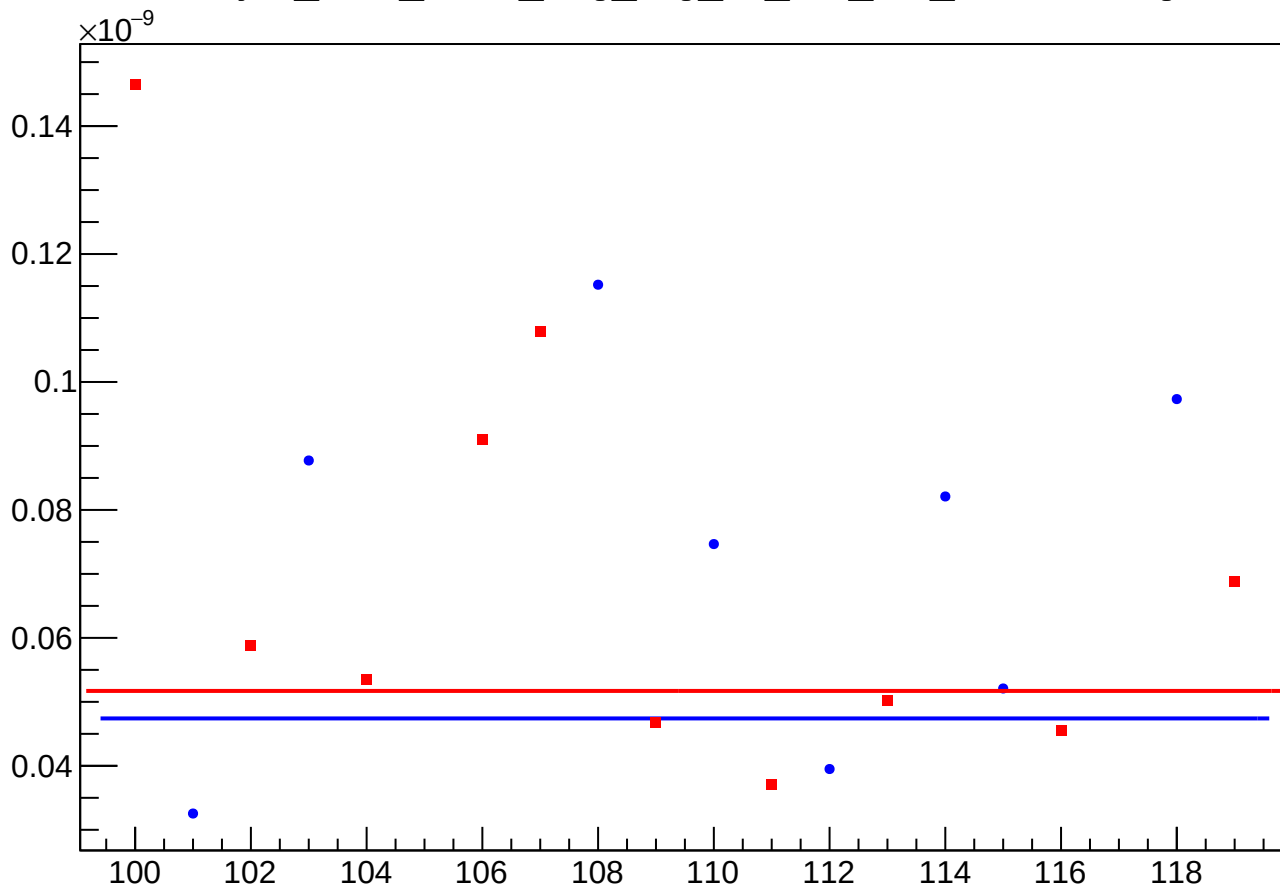
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.1/17

- 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  $\chi^2/\text{NDF}$ : 611800.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 270085.1/9

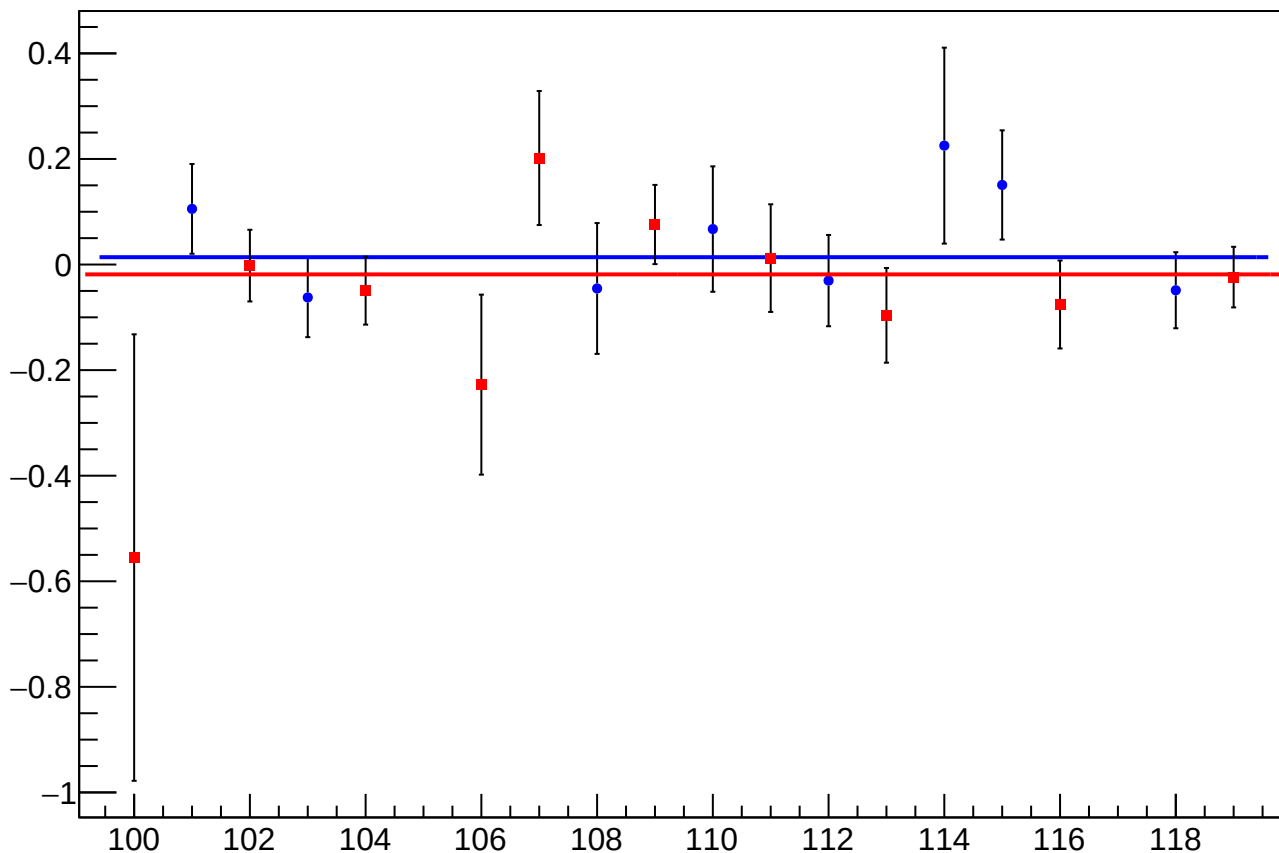
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 892694.7/17

- 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: 0.014 $\pm$ 0.033  $\chi^2$ /NDF: 6.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.019 $\pm$ 0.027  $\chi^2$ /NDF: 9.3/9

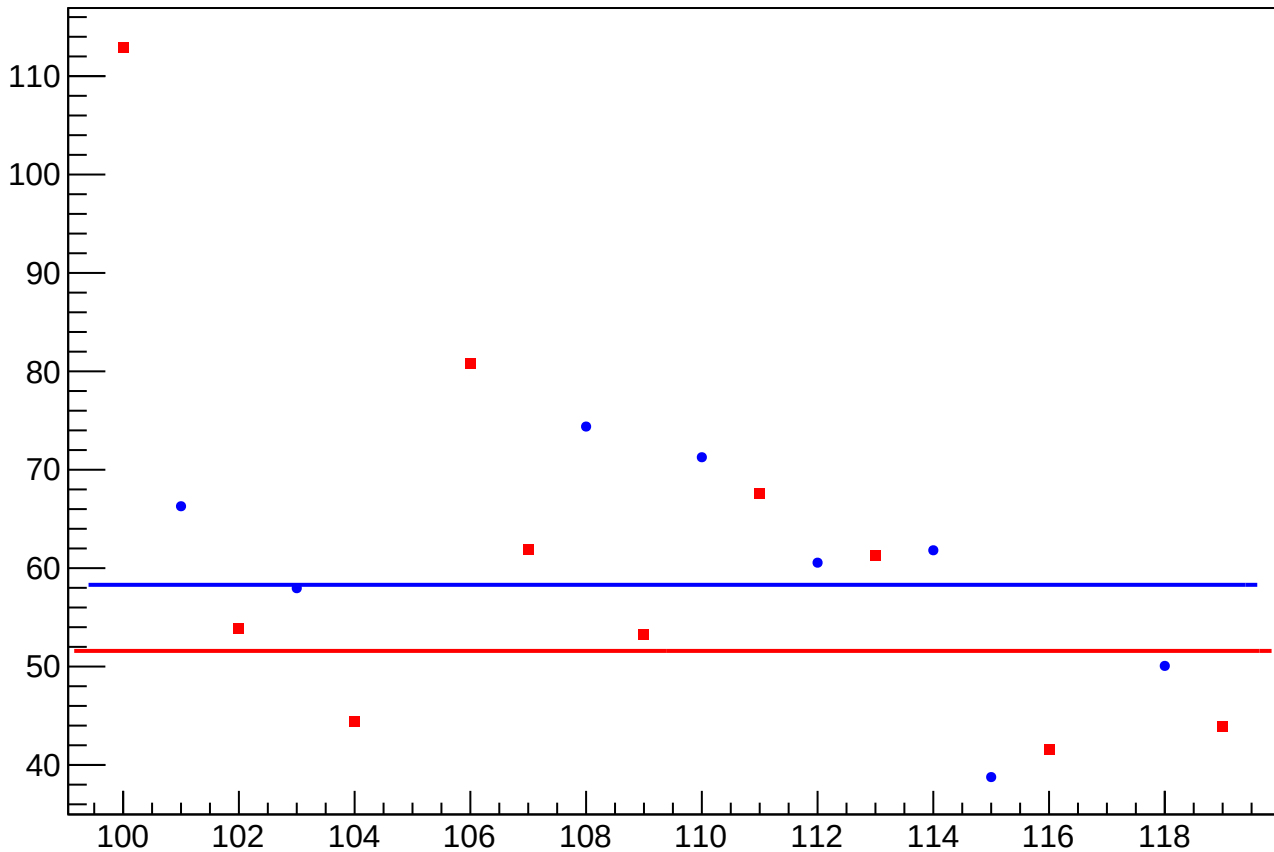
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.006 $\pm$ 0.021  $\chi^2$ /NDF: 16.6/17

- 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: 58.306 $\pm$ 0.024  $\chi^2$ /NDF: 174729.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 51.590 $\pm$ 0.019  $\chi^2$ /NDF: 279326.5/9

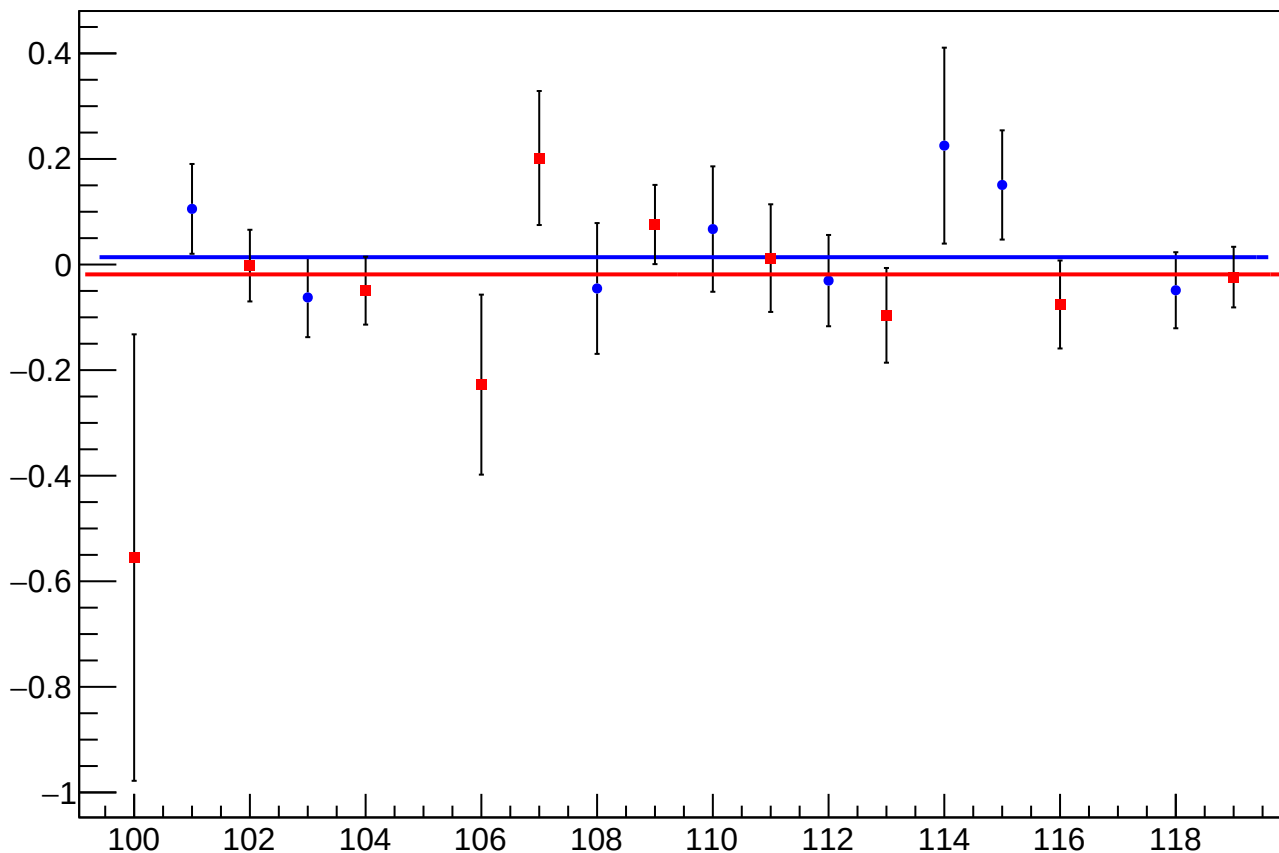
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 54.210 $\pm$ 0.015  $\chi^2$ /NDF: 503551.5/17

- 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: 0.014 $\pm$ 0.033  $\chi^2$ /NDF: 6.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.019 $\pm$ 0.027  $\chi^2$ /NDF: 9.3/9

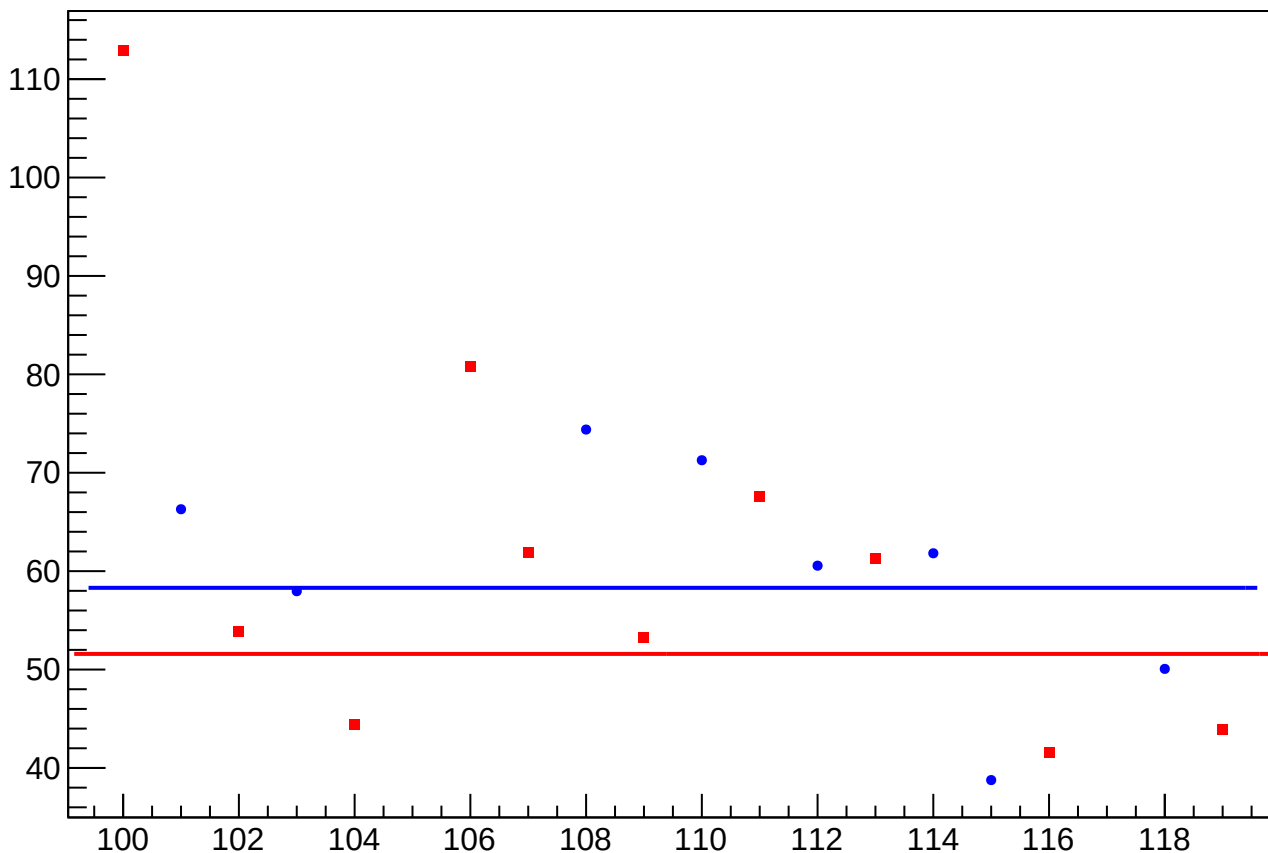
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.006 $\pm$ 0.021  $\chi^2$ /NDF: 16.6/17

- 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: 58.306+/-0.024  $\chi^2/\text{NDF}$ : 174729.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 51.590+/-0.019  $\chi^2/\text{NDF}$ : 279326.5/9

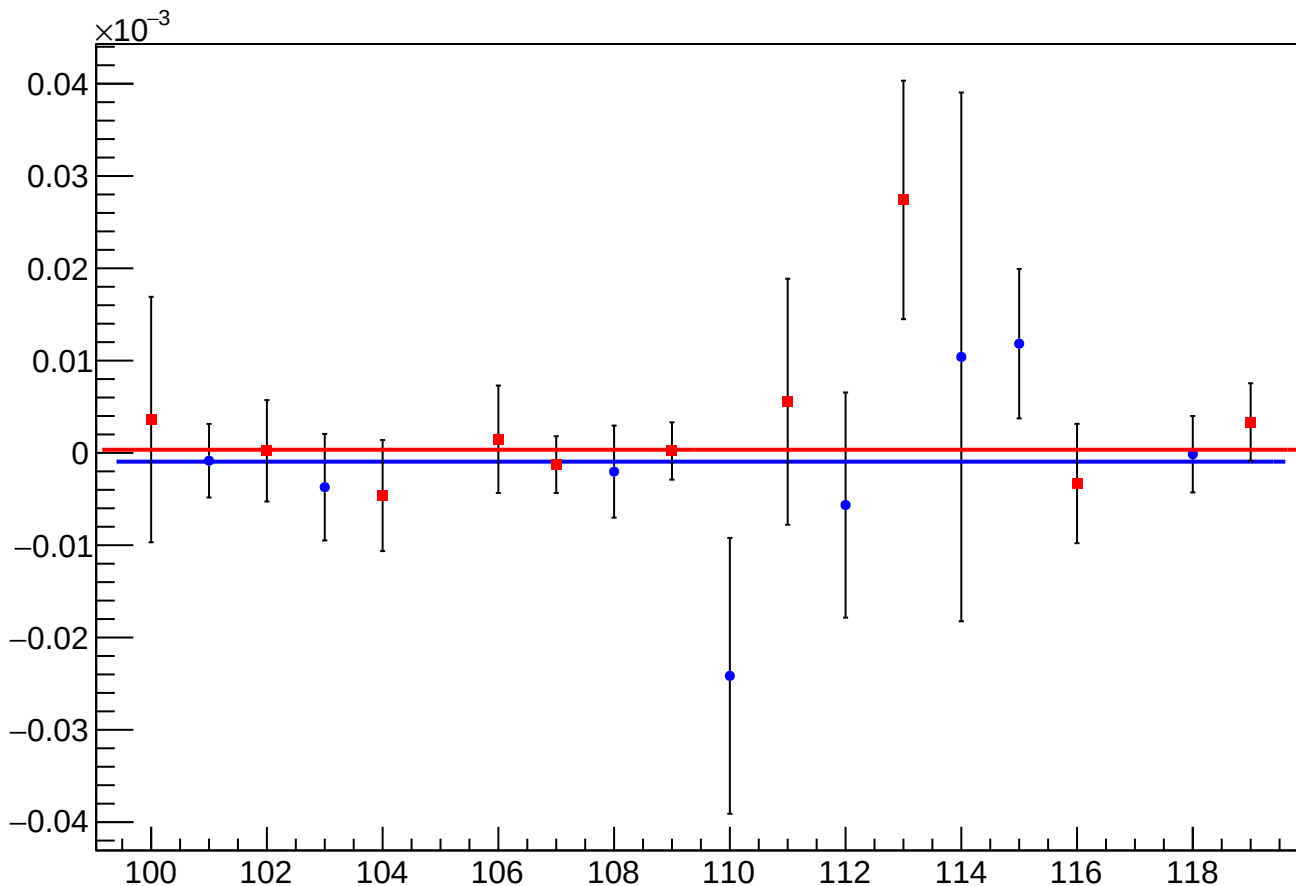
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.210+/-0.015  $\chi^2/\text{NDF}$ : 503551.5/17

- 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  $\chi^2/\text{NDF}$ : 5.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.4/9

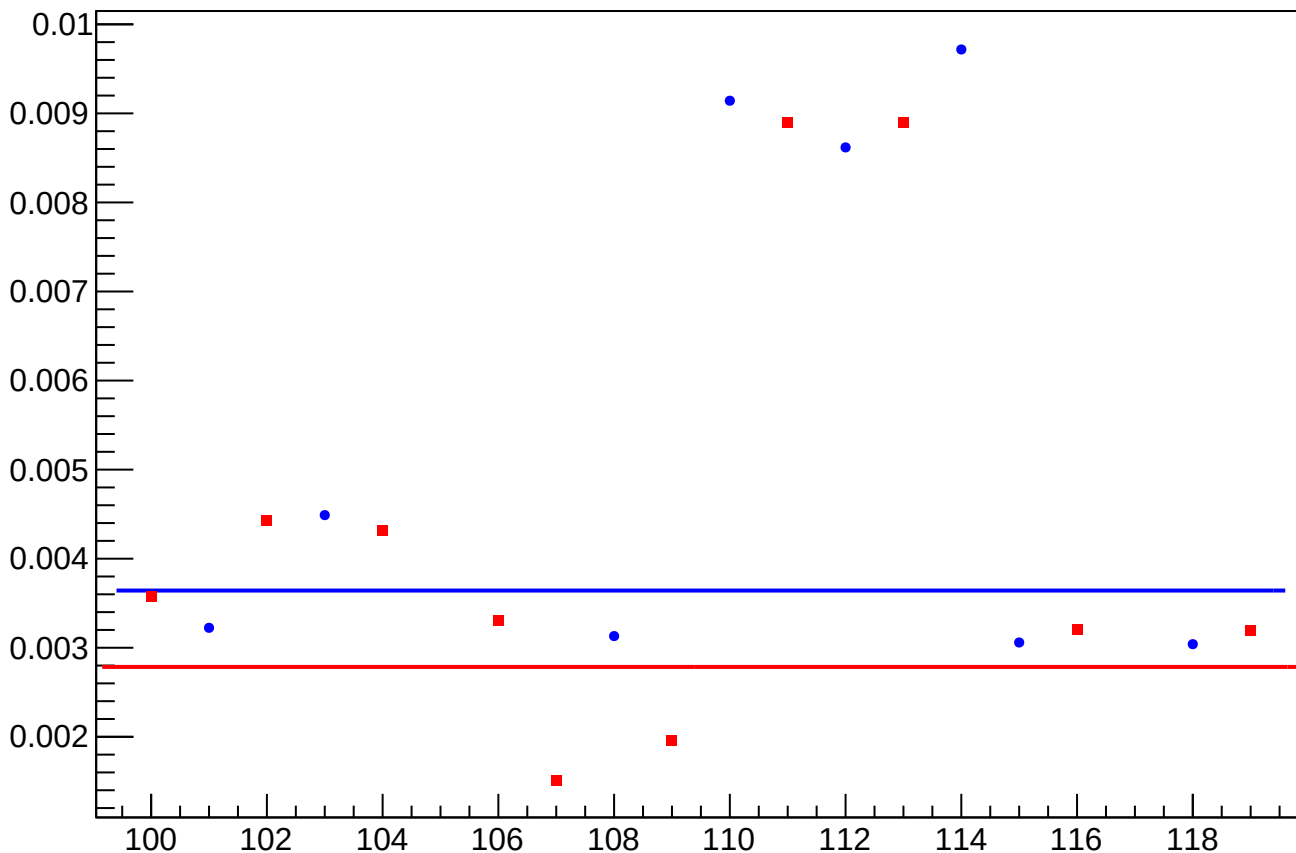
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.2/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 832493.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1713622.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

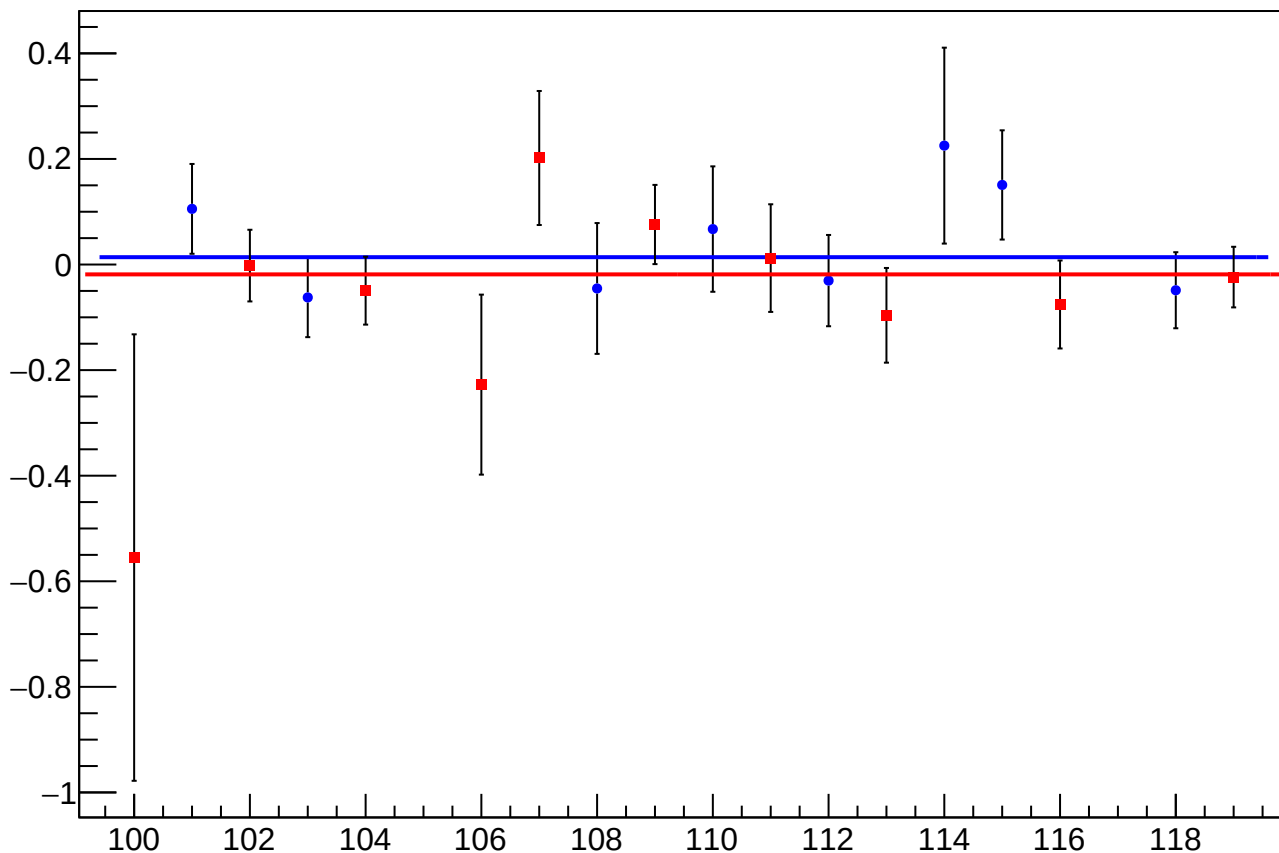
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2753873.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_2468\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.014 $\pm$ 0.033  $\chi^2$ /NDF: 6.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.019 $\pm$ 0.027  $\chi^2$ /NDF: 9.3/9

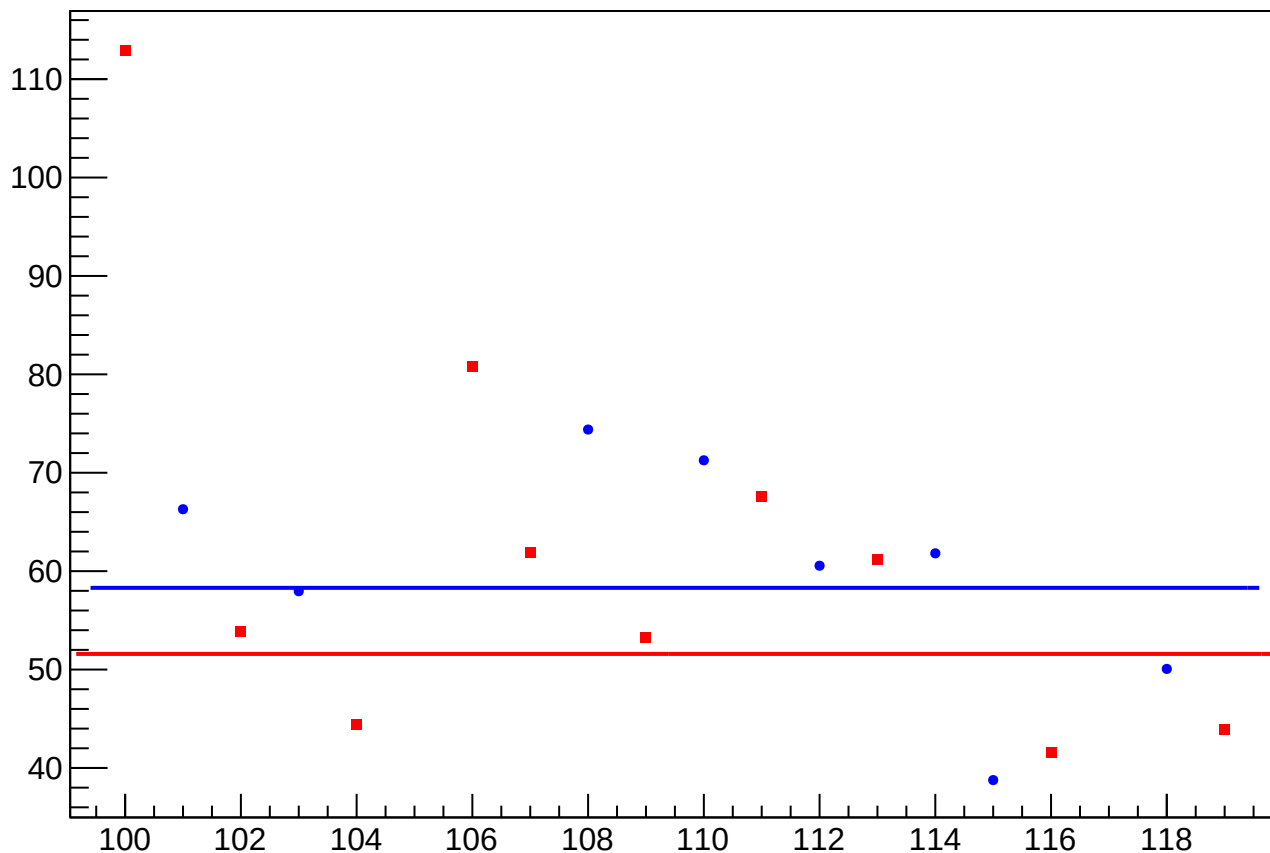
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.006 $\pm$ 0.021  $\chi^2$ /NDF: 16.6/17

- 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: 58.305+/-0.024  $\chi^2/\text{NDF}$ : 174709.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 51.589+/-0.019  $\chi^2/\text{NDF}$ : 279273.6/9

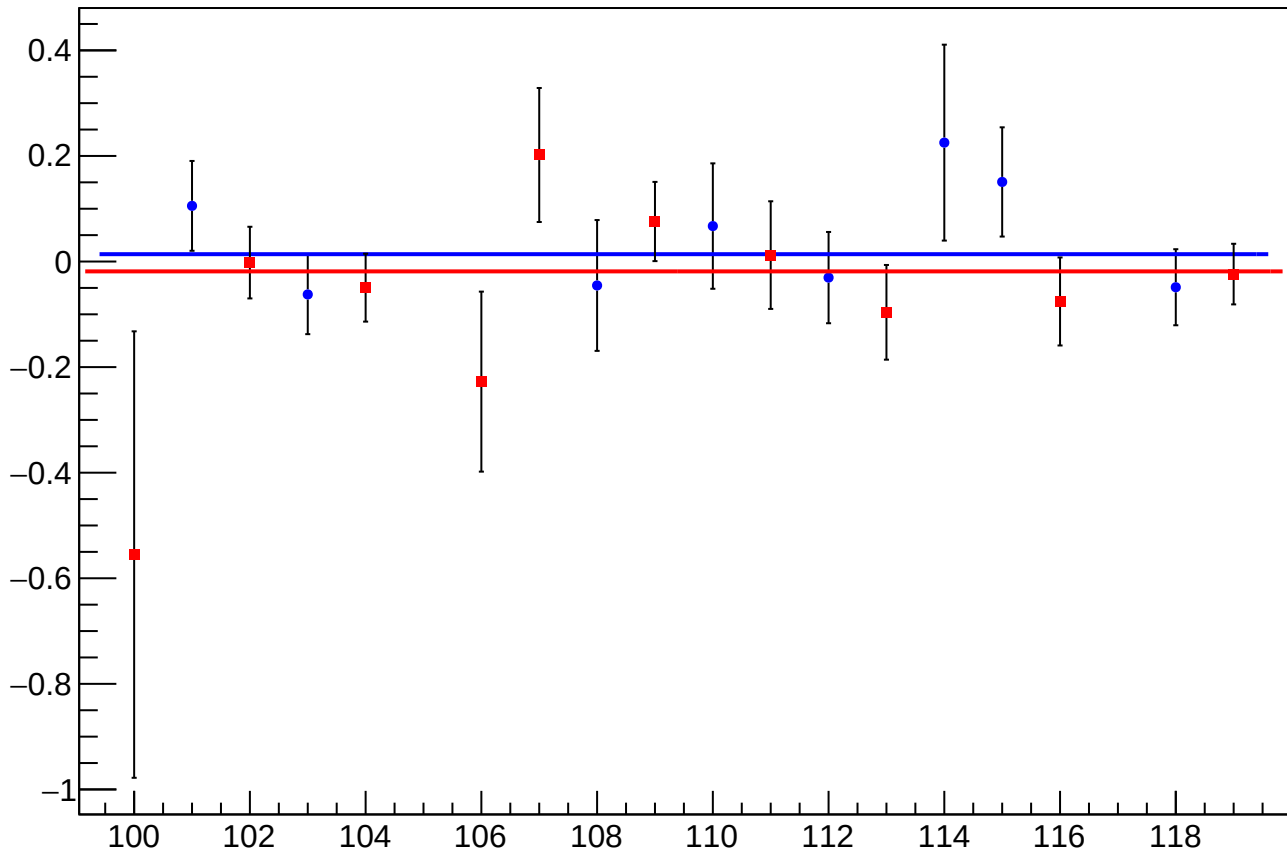
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.209+/-0.015  $\chi^2/\text{NDF}$ : 503474.5/17

- 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: 0.014 $\pm$ 0.033  $\chi^2$ /NDF: 6.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.019 $\pm$ 0.027  $\chi^2$ /NDF: 9.3/9

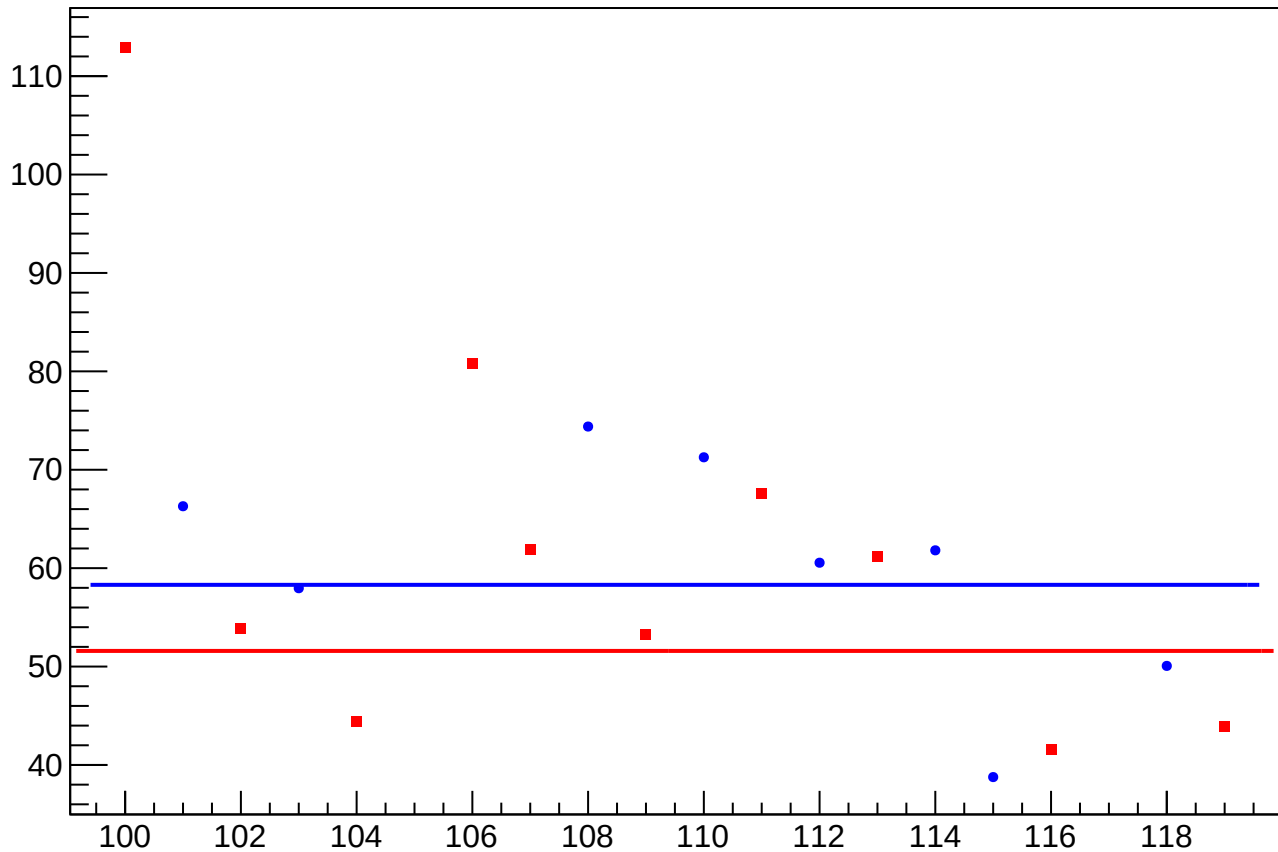
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.006 $\pm$ 0.021  $\chi^2$ /NDF: 16.6/17

- 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: 58.305+/-0.024  $\chi^2/\text{NDF}$ : 174709.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 51.589+/-0.019  $\chi^2/\text{NDF}$ : 279273.6/9

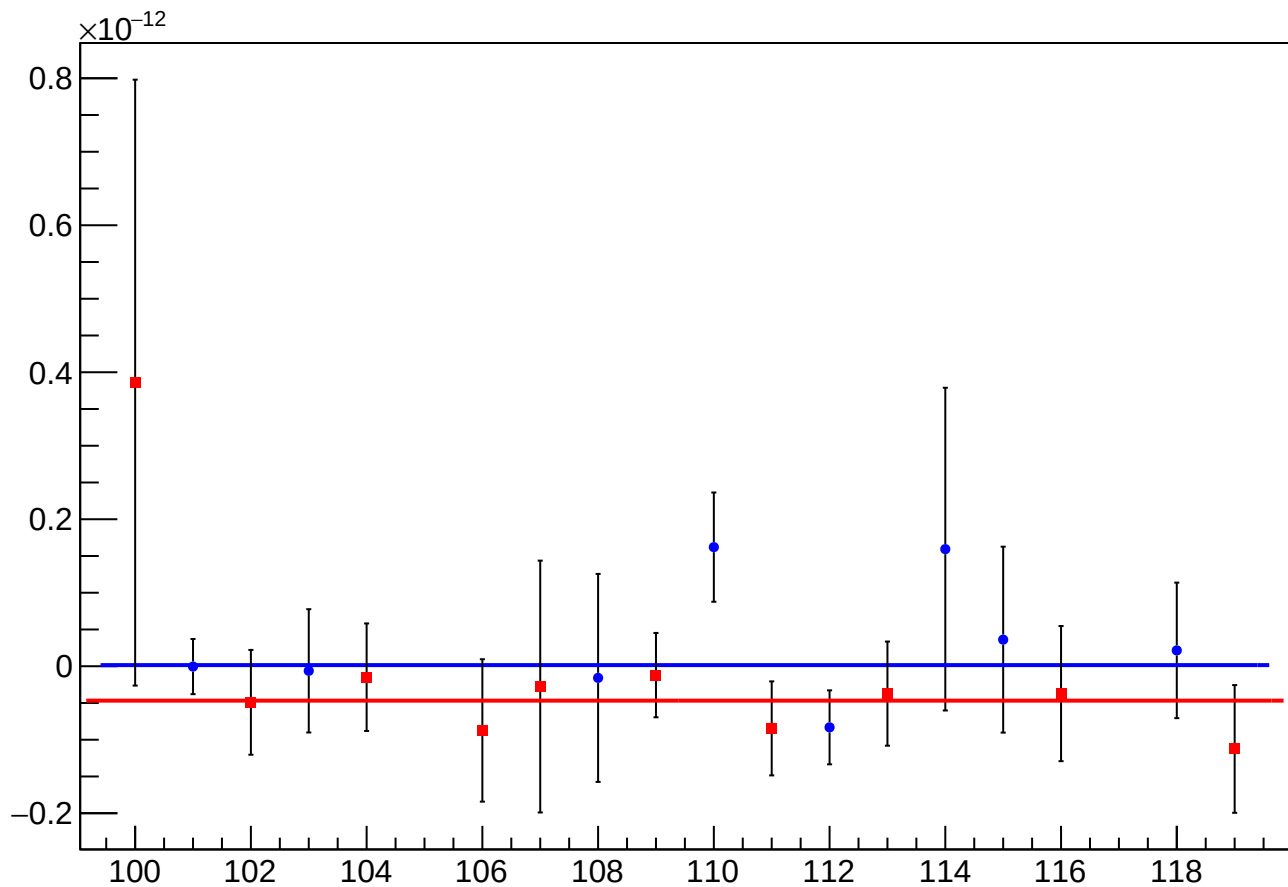
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.209+/-0.015  $\chi^2/\text{NDF}$ : 503474.5/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 8.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.8/9

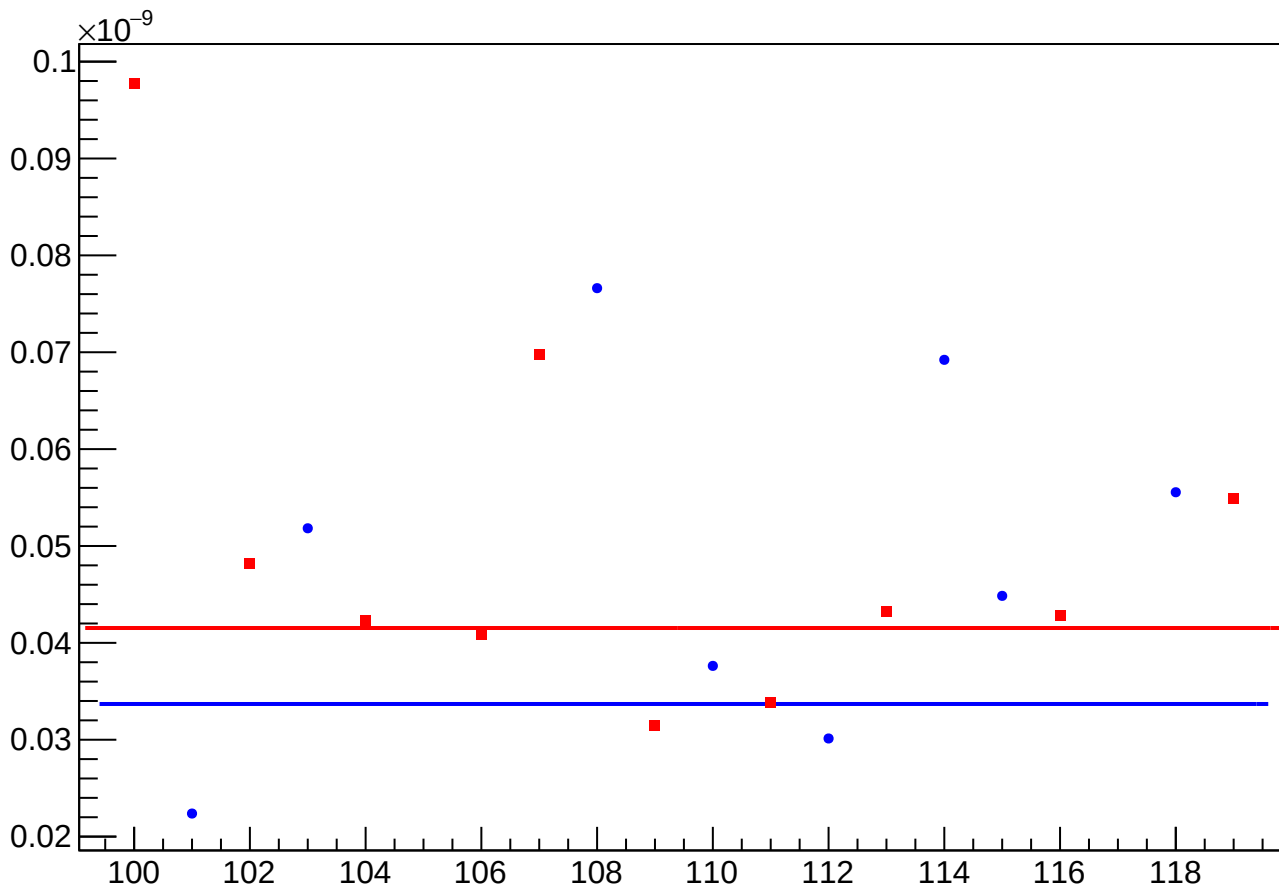
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 655242.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 248245.3/9

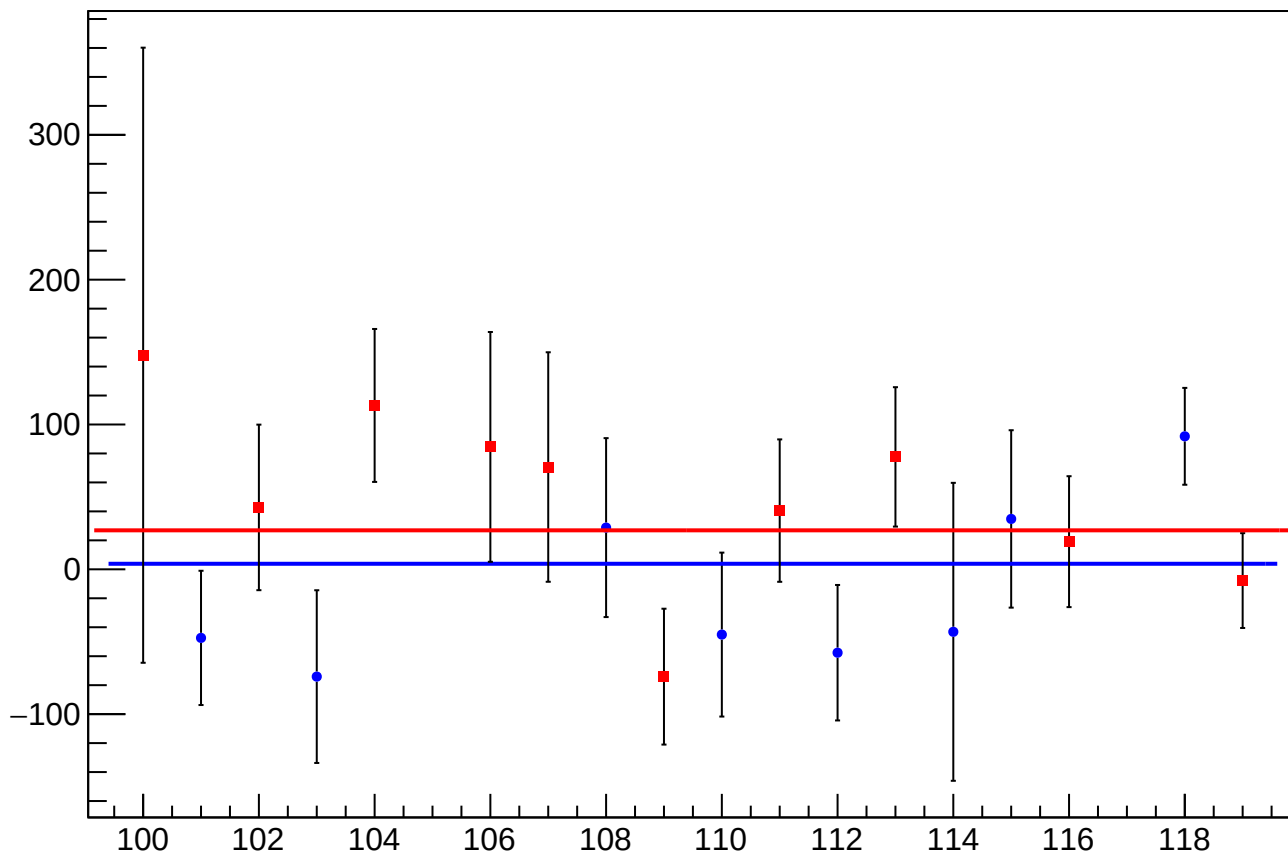
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1001931.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: 3.827 $\pm$ 18.157  $\chi^2$ /NDF: 13.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.918 $\pm$ 16.380  $\chi^2$ /NDF: 10.9/9

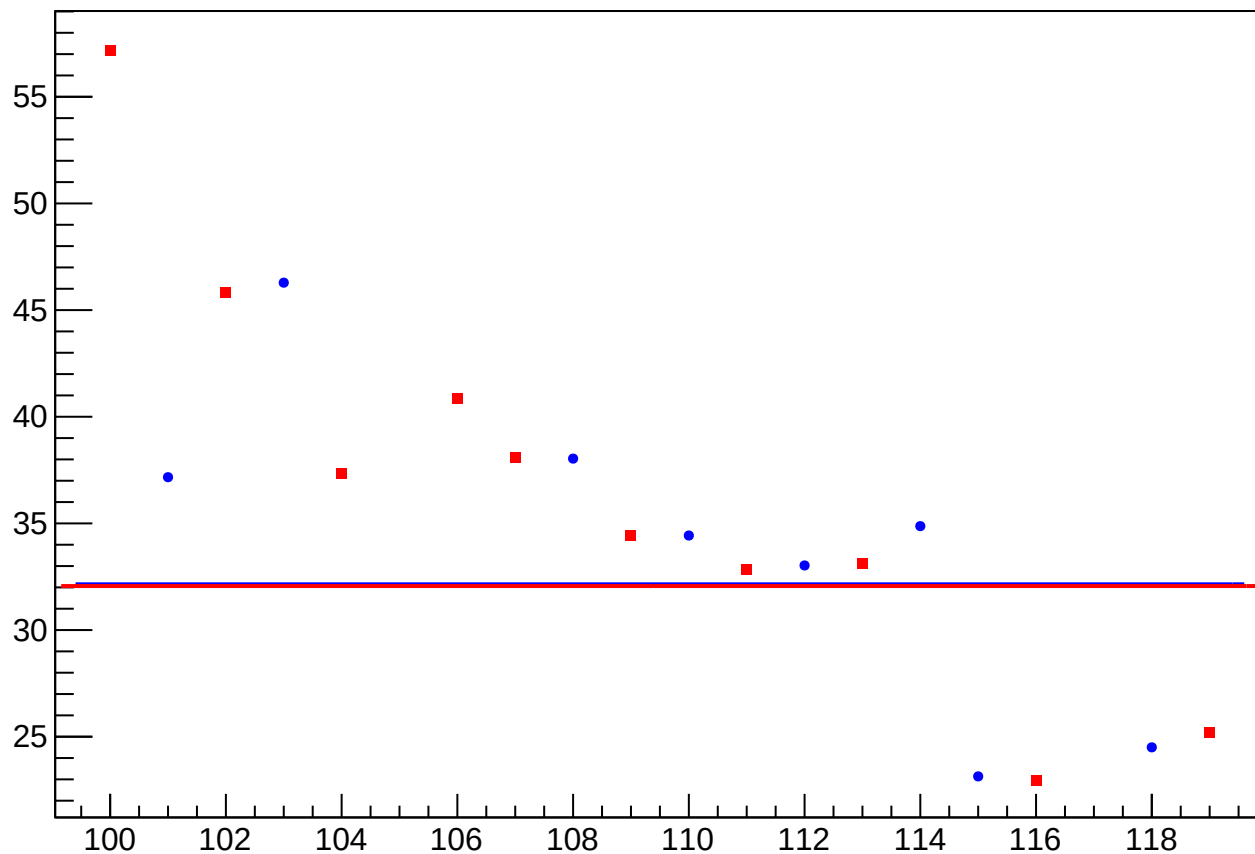
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.558 $\pm$ 12.162  $\chi^2$ /NDF: 24.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 32.144+/-0.013  $\chi^2/\text{NDF}$ : 307227.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 32.062+/-0.012  $\chi^2/\text{NDF}$ : 375877.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

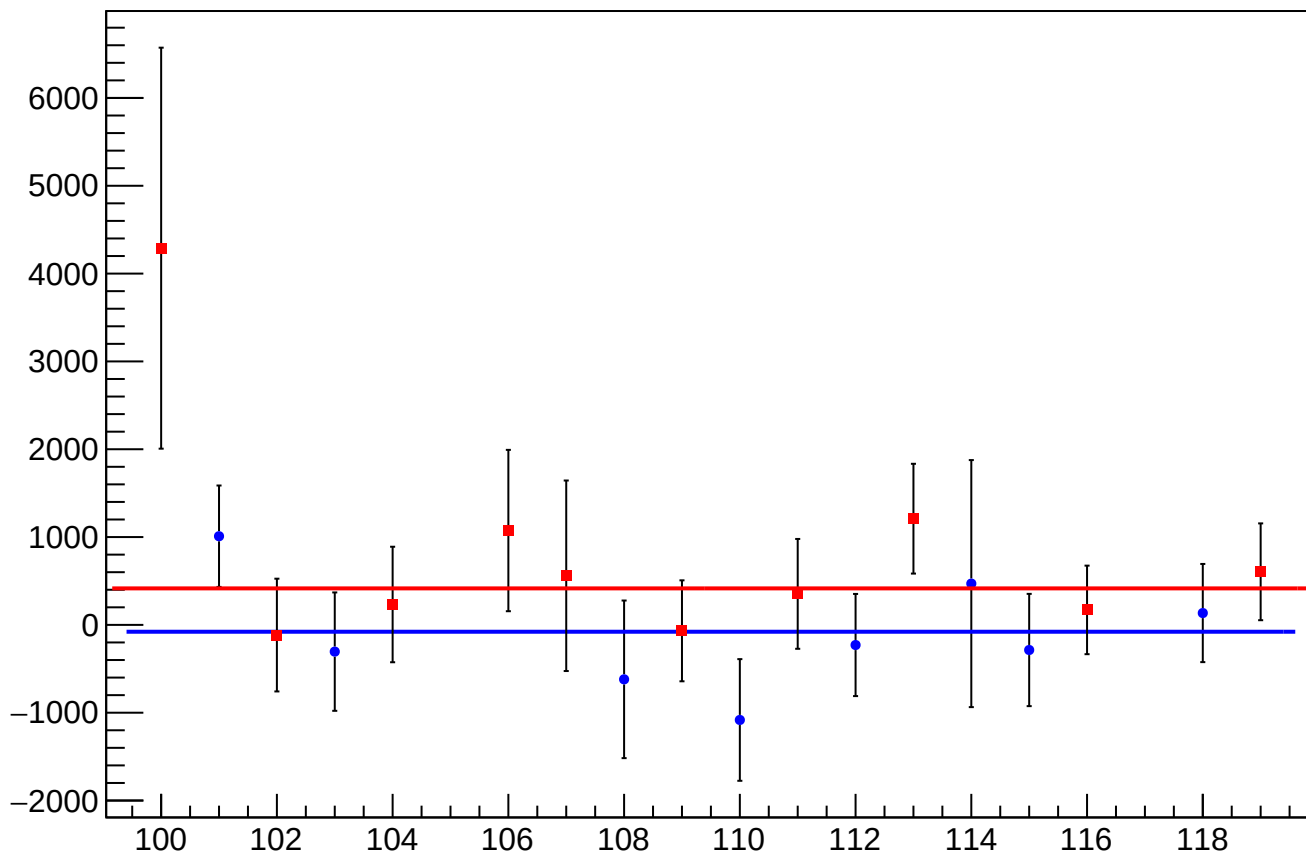
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.099+/-0.009  $\chi^2/\text{NDF}$ : 683127.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_2468\_dd\_reg\_correction\_mean vs Slug



Right In: -77.969 $\pm$ 238.101  $\chi^2$ /NDF: 6.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 415.553 $\pm$ 211.595  $\chi^2$ /NDF: 6.9/9

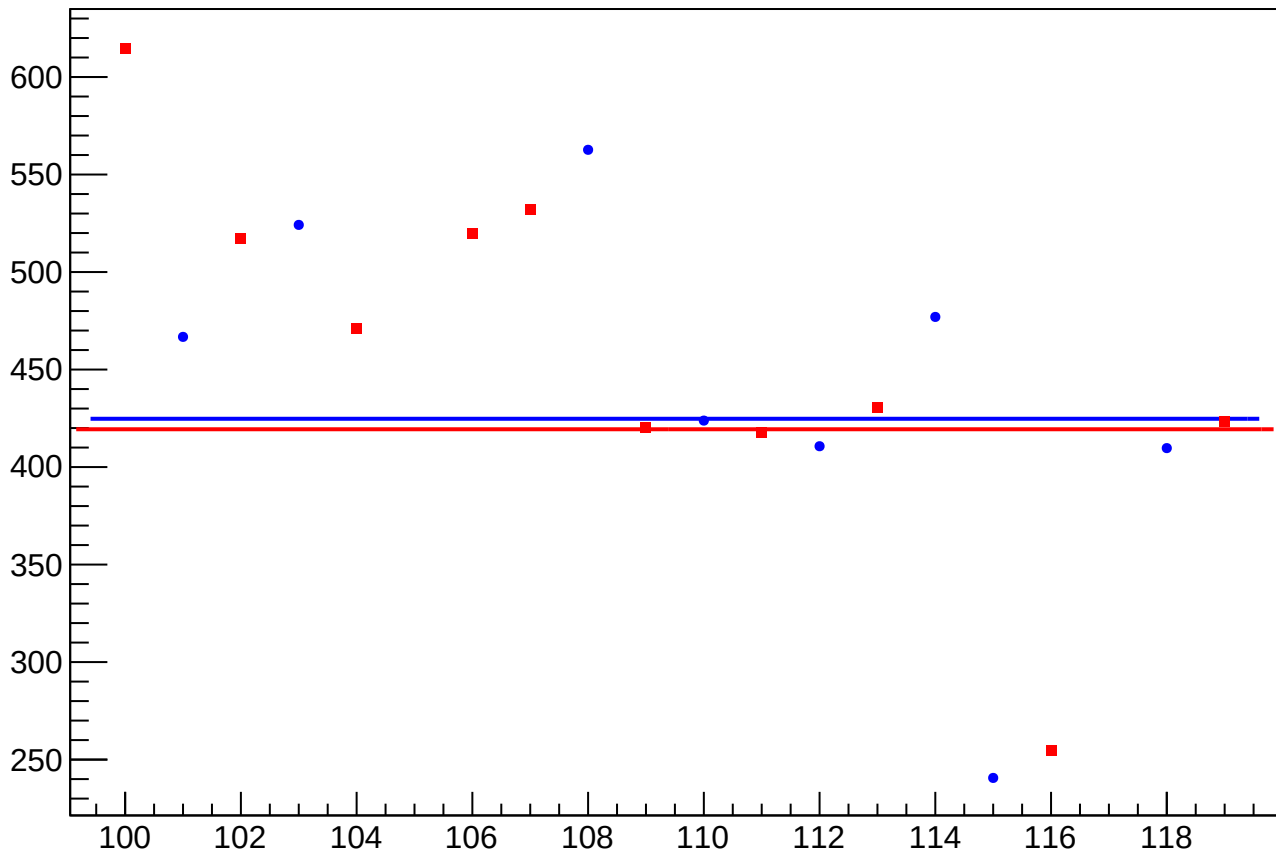
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 197.780 $\pm$ 158.165  $\chi^2$ /NDF: 15.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_reg\_correction\_rms vs Slug



Right In: 424.762 $\pm$ 0.168  $\chi^2$ /NDF: 272772.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 419.384 $\pm$ 0.150  $\chi^2$ /NDF: 332517.1/9

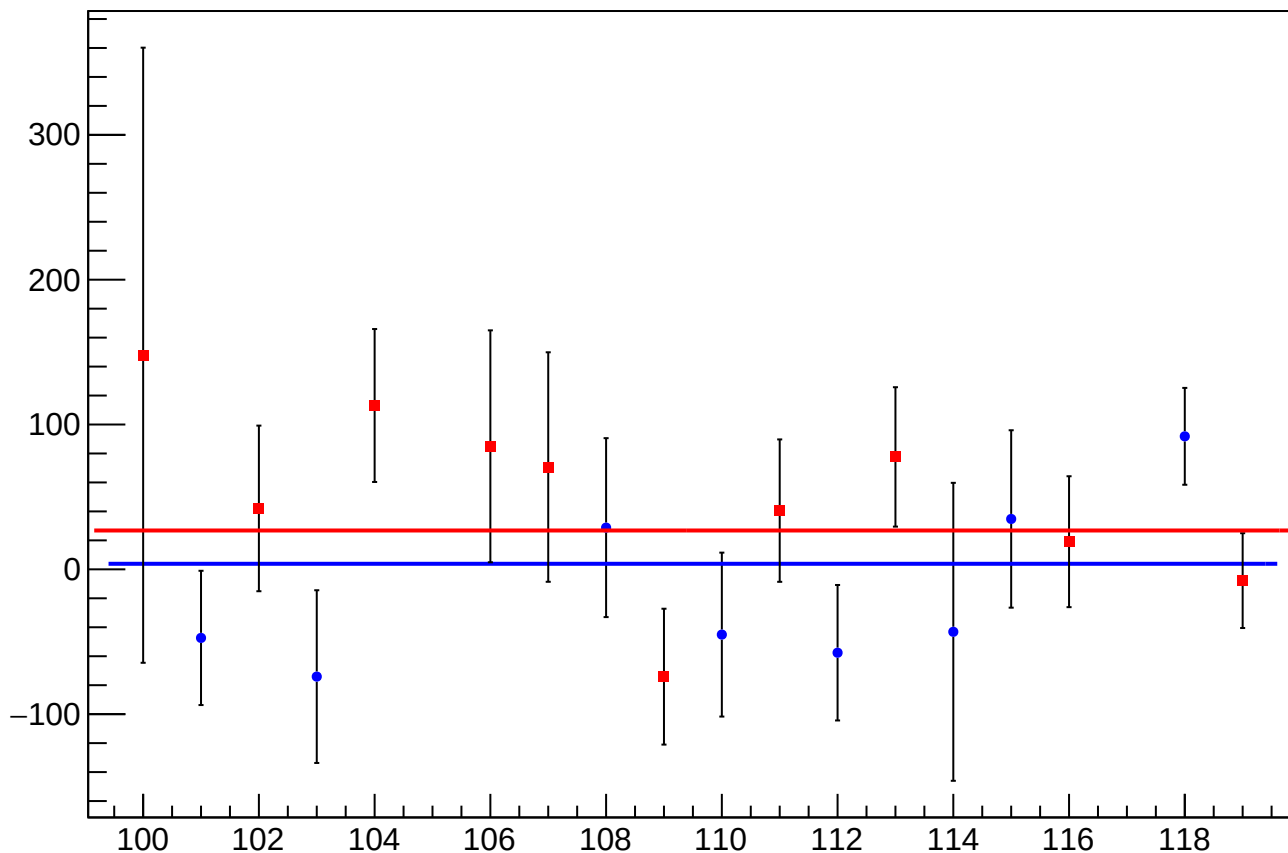
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 421.757 $\pm$ 0.112  $\chi^2$ /NDF: 605859.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: 3.830+/-18.157  $\chi^2/\text{NDF}$ : 13.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26.825+/-16.387  $\chi^2/\text{NDF}$ : 10.9/9

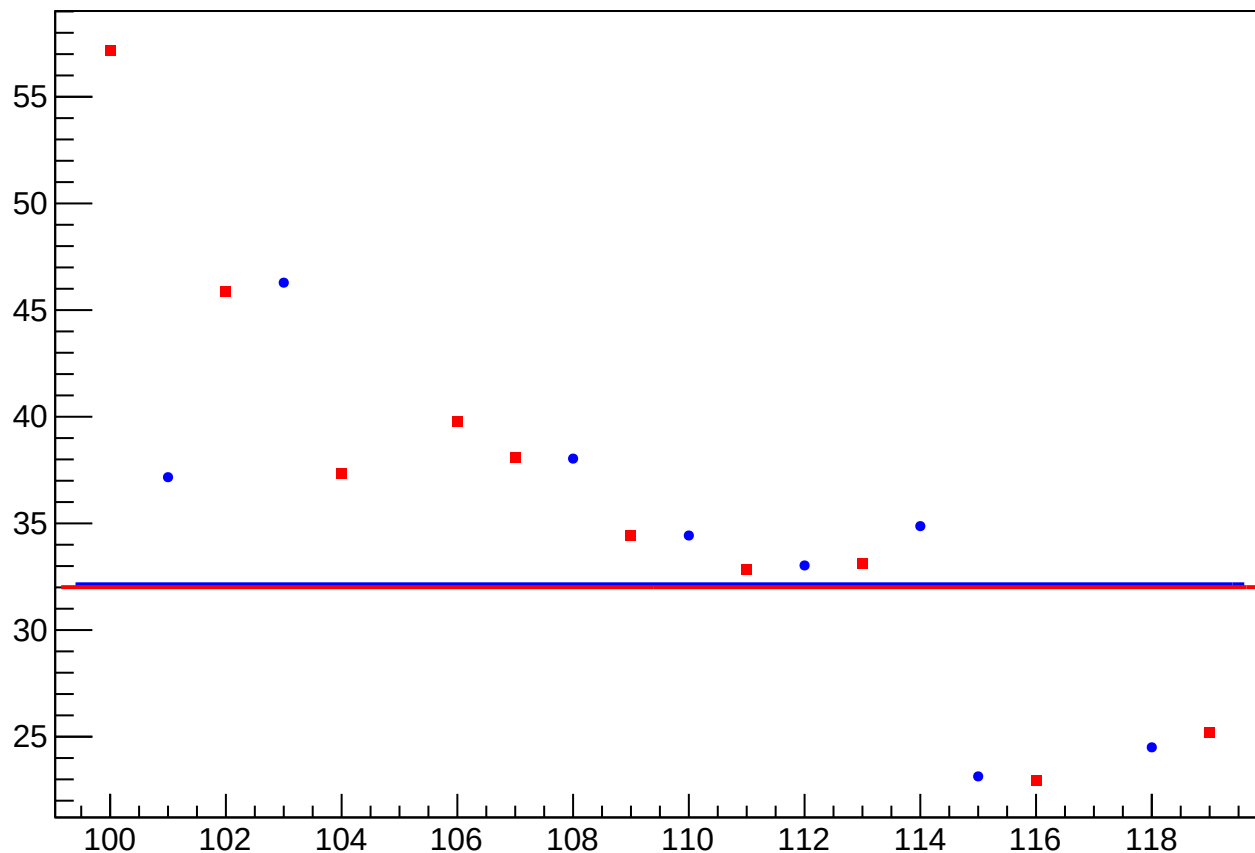
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.503+/-12.165  $\chi^2/\text{NDF}$ : 24.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 32.144+/-0.013  $\chi^2/\text{NDF}$ : 307230.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 32.011+/-0.012  $\chi^2/\text{NDF}$ : 370057.0/9

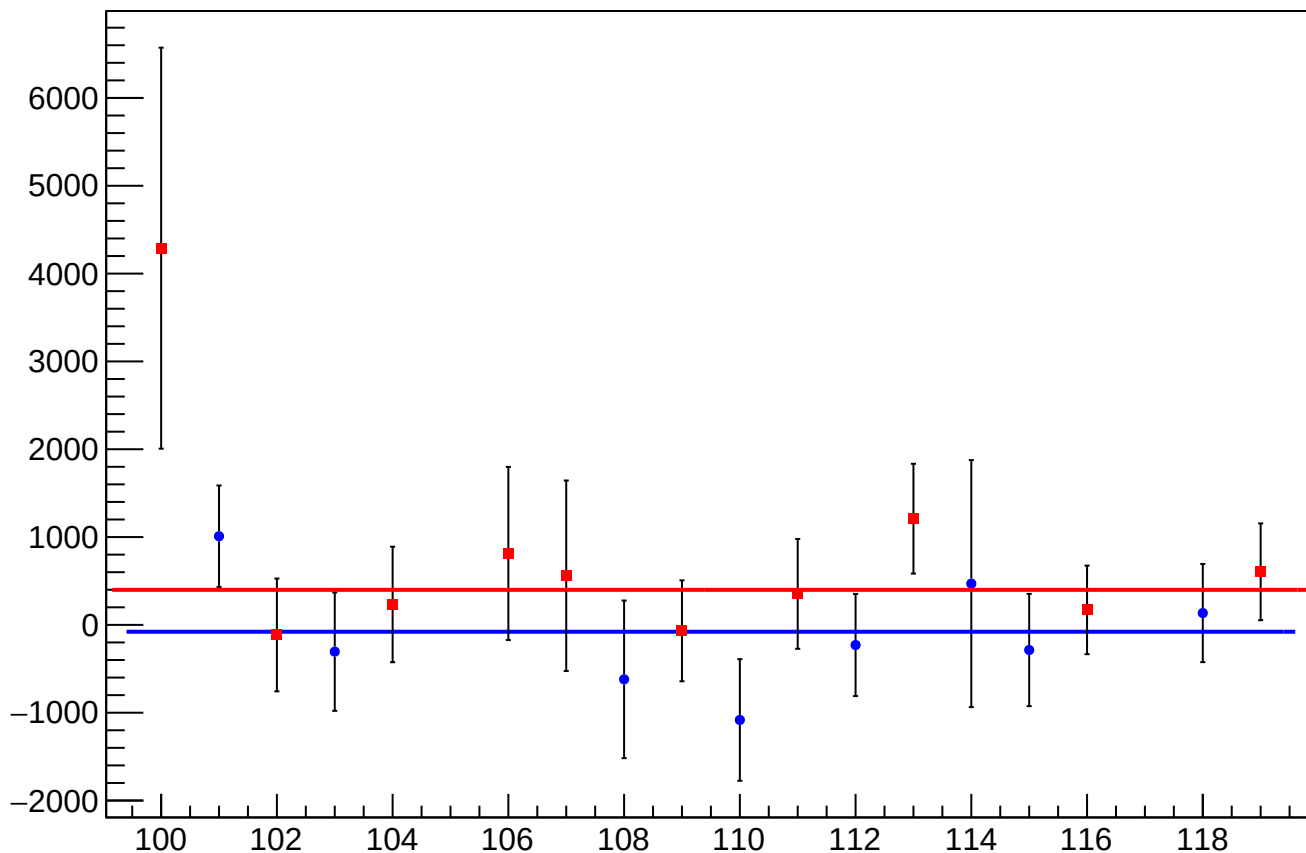
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.071+/-0.009  $\chi^2/\text{NDF}$ : 677346.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_cor\_correction\_mean vs Slug



Right In: -77.994 $\pm$ 238.102  $\chi^2$ /NDF: 6.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 399.024 $\pm$ 212.349  $\chi^2$ /NDF: 6.5/9

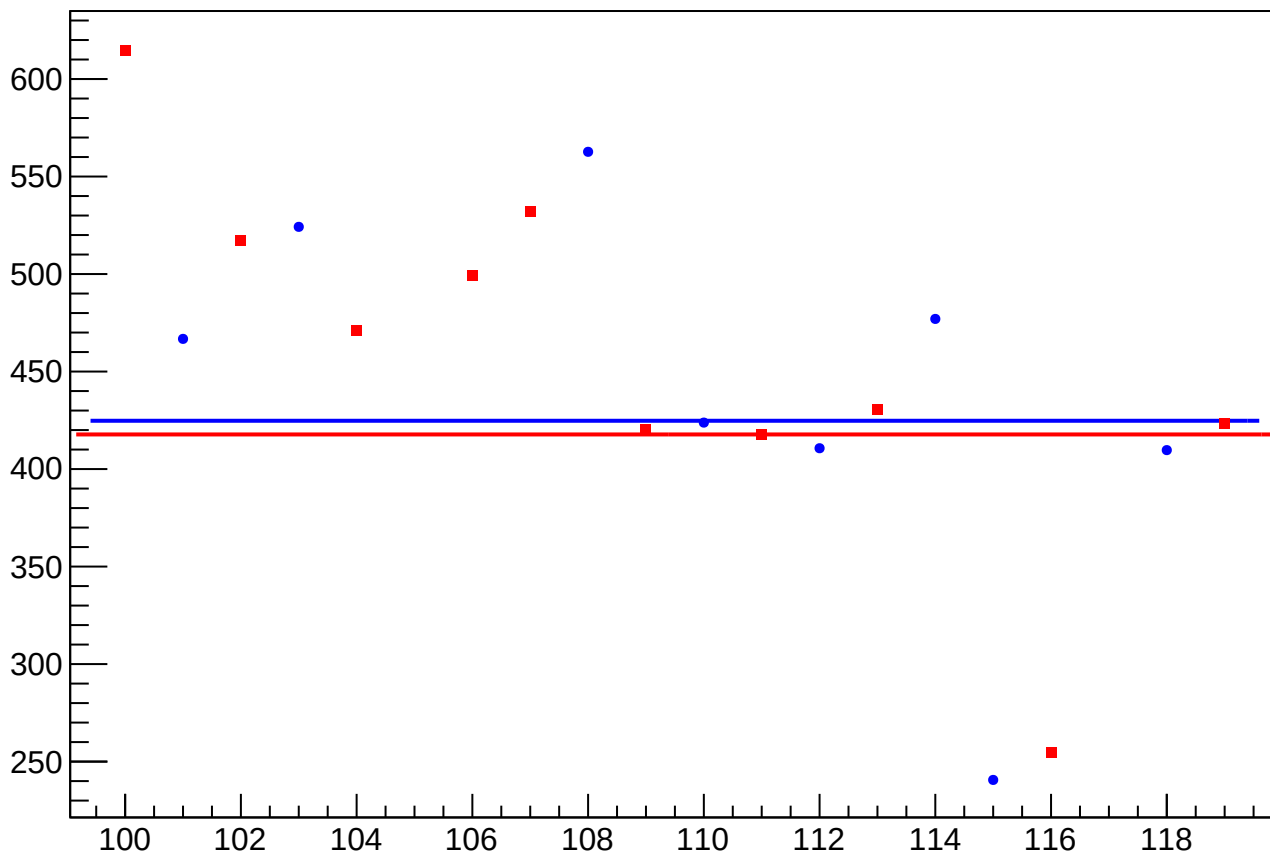
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 187.698 $\pm$ 158.479  $\chi^2$ /NDF: 15.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_cor\_correction\_rms vs Slug



Right In: 424.764 $\pm$ 0.168  $\chi^2$ /NDF: 272794.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 417.751 $\pm$ 0.150  $\chi^2$ /NDF: 321875.8/9

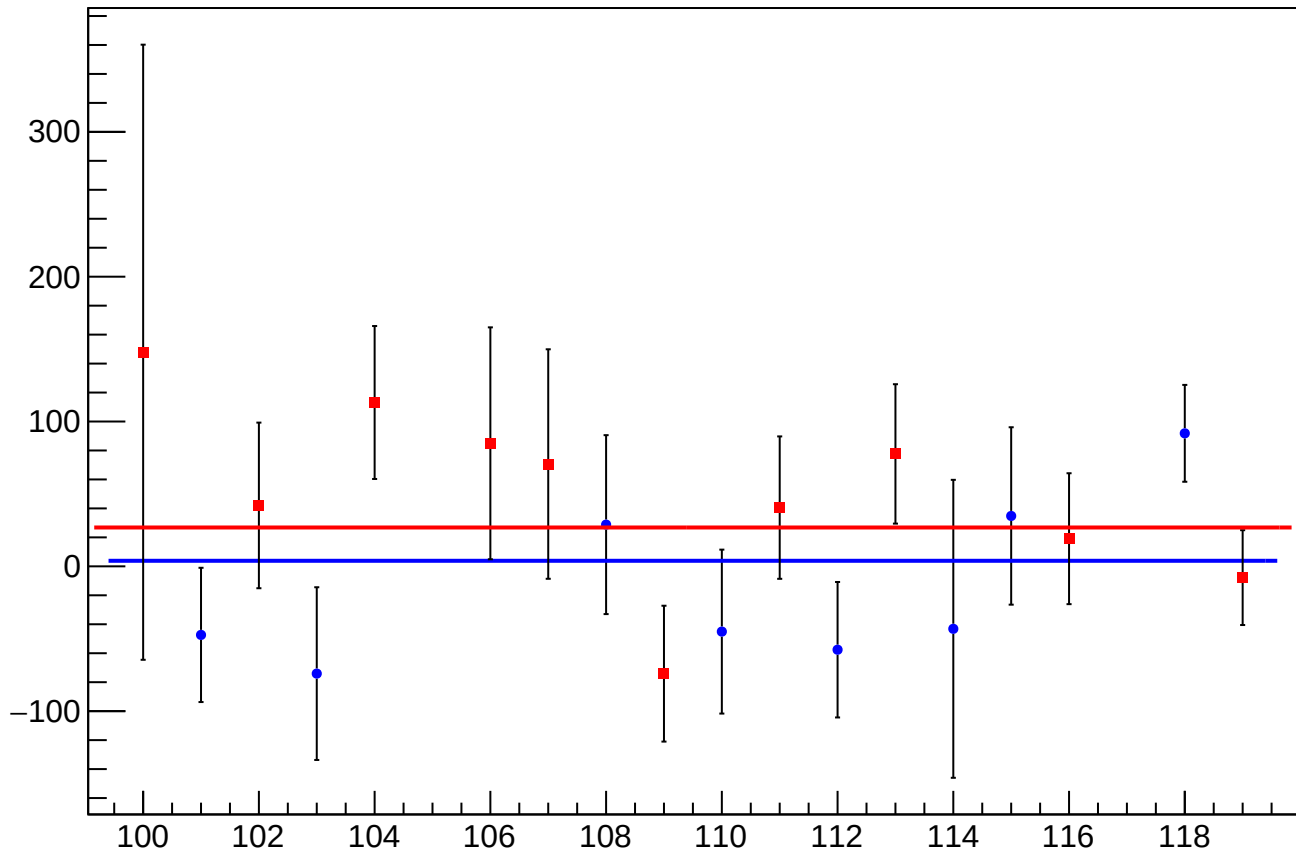
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 420.858 $\pm$ 0.112  $\chi^2$ /NDF: 595636.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: 3.830 $\pm$ 18.157  $\chi^2$ /NDF: 13.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.825 $\pm$ 16.387  $\chi^2$ /NDF: 10.9/9

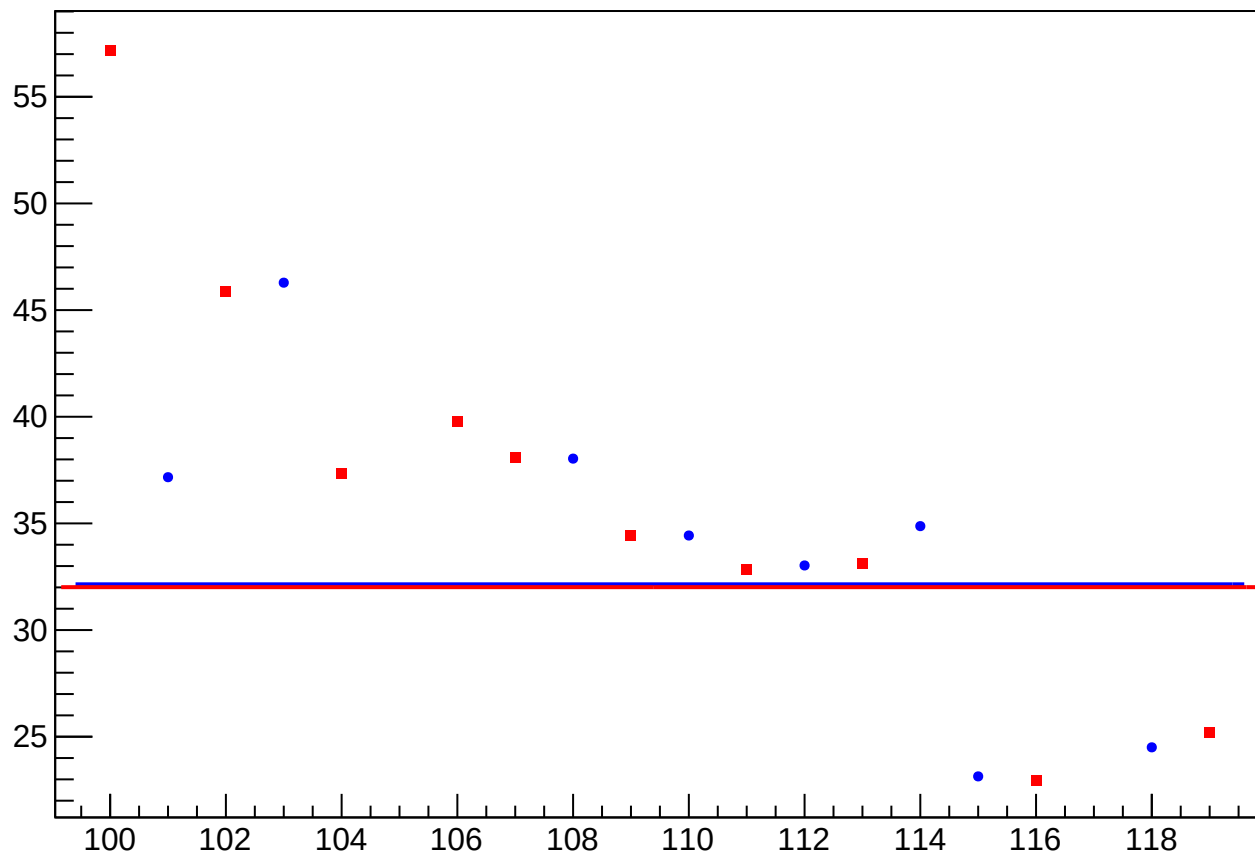
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.503 $\pm$ 12.165  $\chi^2$ /NDF: 24.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 32.144+/-0.013  $\chi^2/\text{NDF}$ : 307230.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 32.011+/-0.012  $\chi^2/\text{NDF}$ : 370057.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

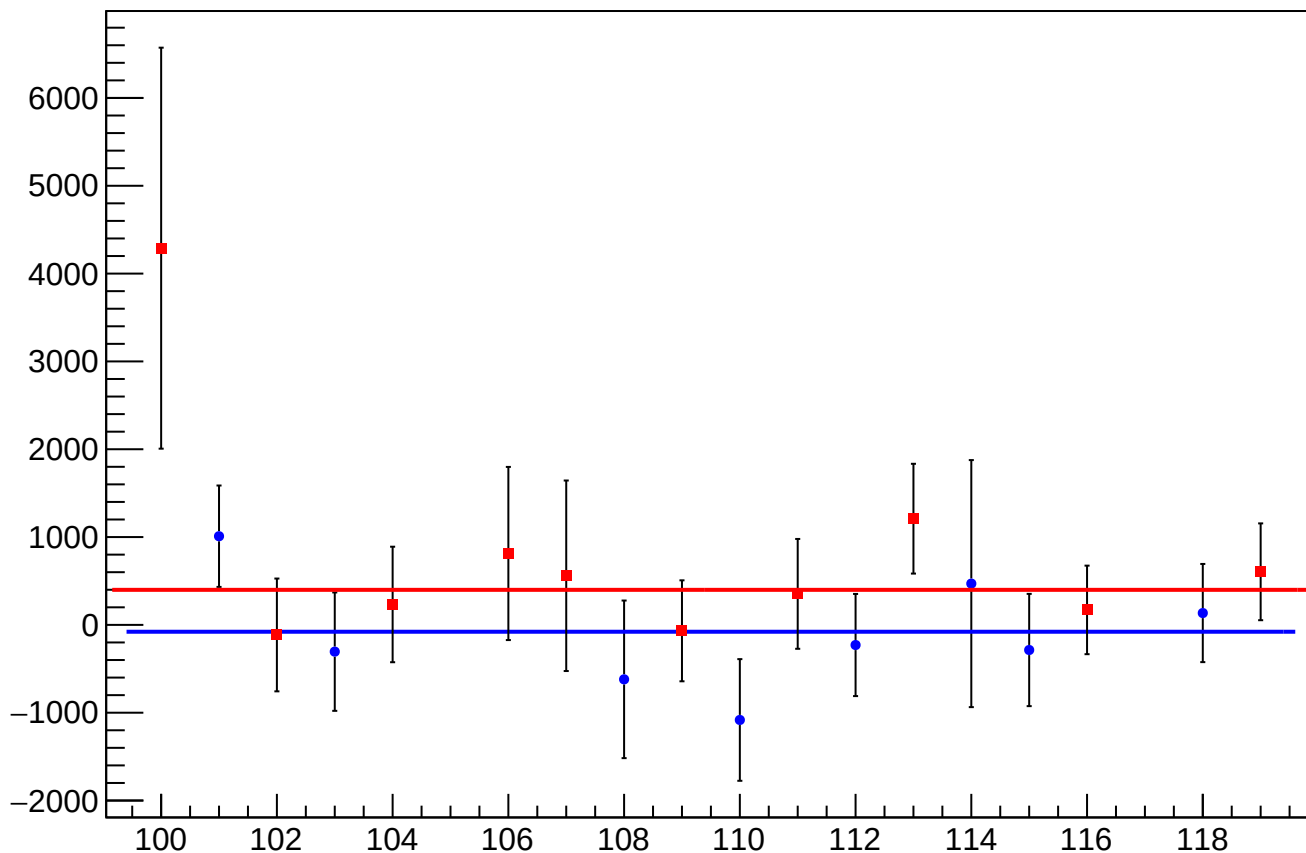
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.071+/-0.009  $\chi^2/\text{NDF}$ : 677346.9/17

- 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: -77.994 $\pm$ 238.102  $\chi^2$ /NDF: 6.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 399.024 $\pm$ 212.349  $\chi^2$ /NDF: 6.5/9

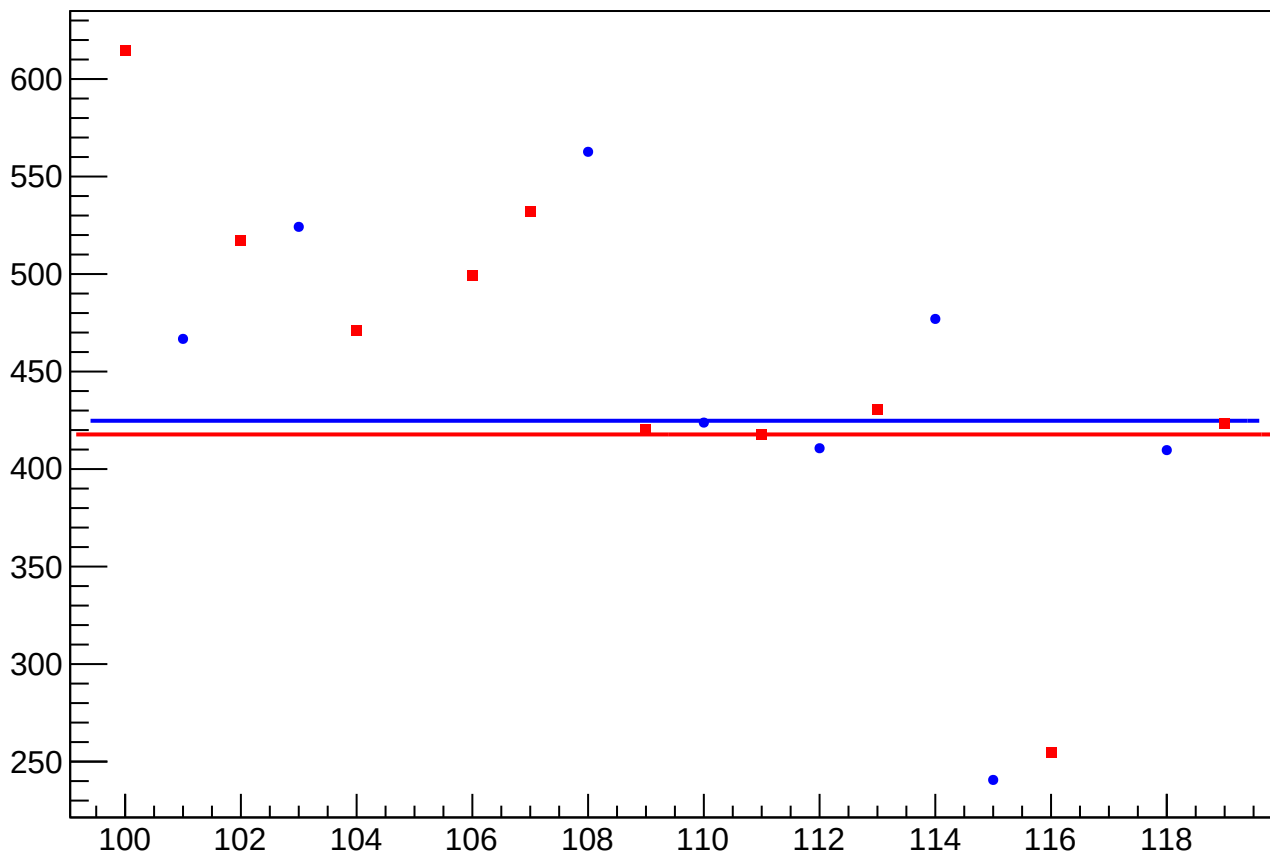
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 187.698 $\pm$ 158.479  $\chi^2$ /NDF: 15.3/17

- 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: 424.764 $\pm$ 0.168  $\chi^2$ /NDF: 272794.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 417.751 $\pm$ 0.150  $\chi^2$ /NDF: 321875.8/9

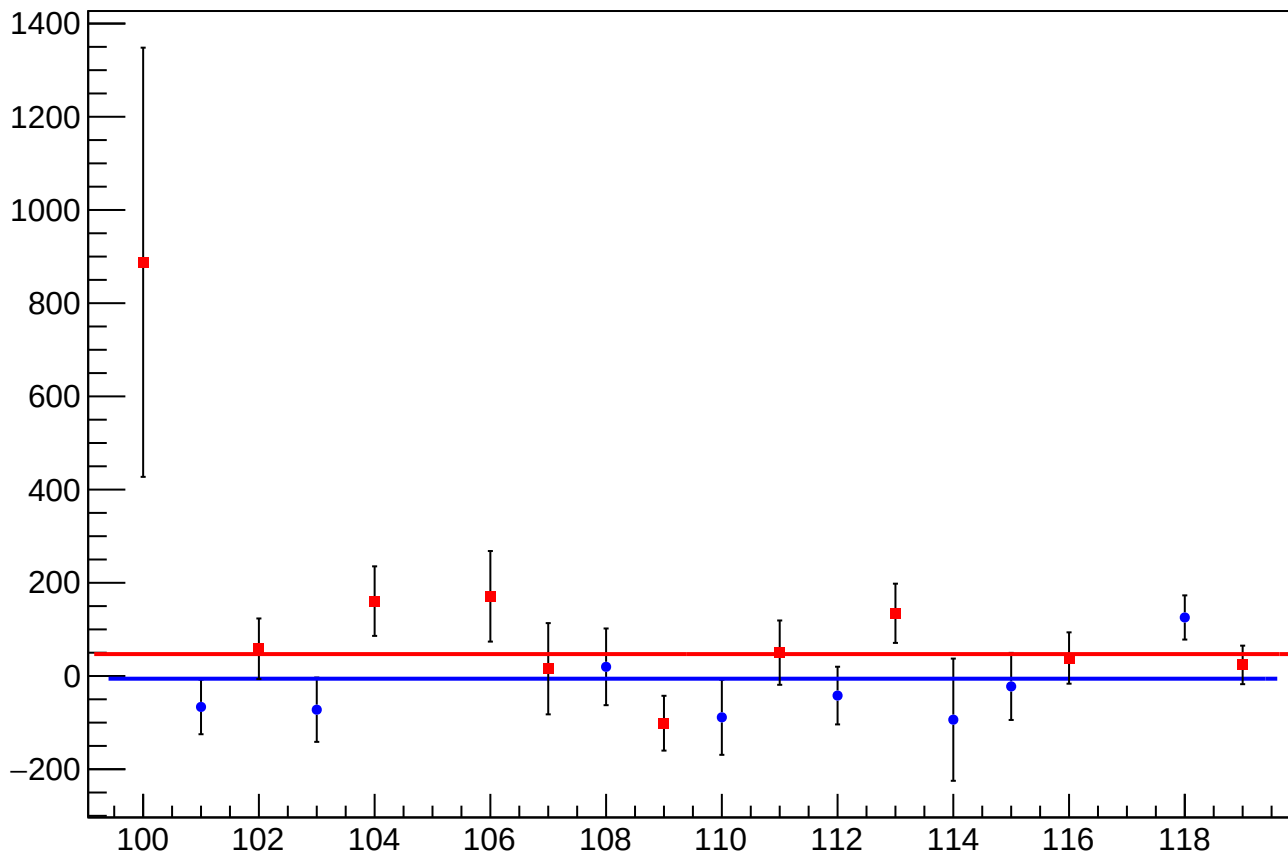
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 420.858 $\pm$ 0.112  $\chi^2$ /NDF: 595636.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In:  $-5.771 \pm 23.830$   $\chi^2/\text{NDF}$ : 11.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $47.047 \pm 20.882$   $\chi^2/\text{NDF}$ : 16.0/9

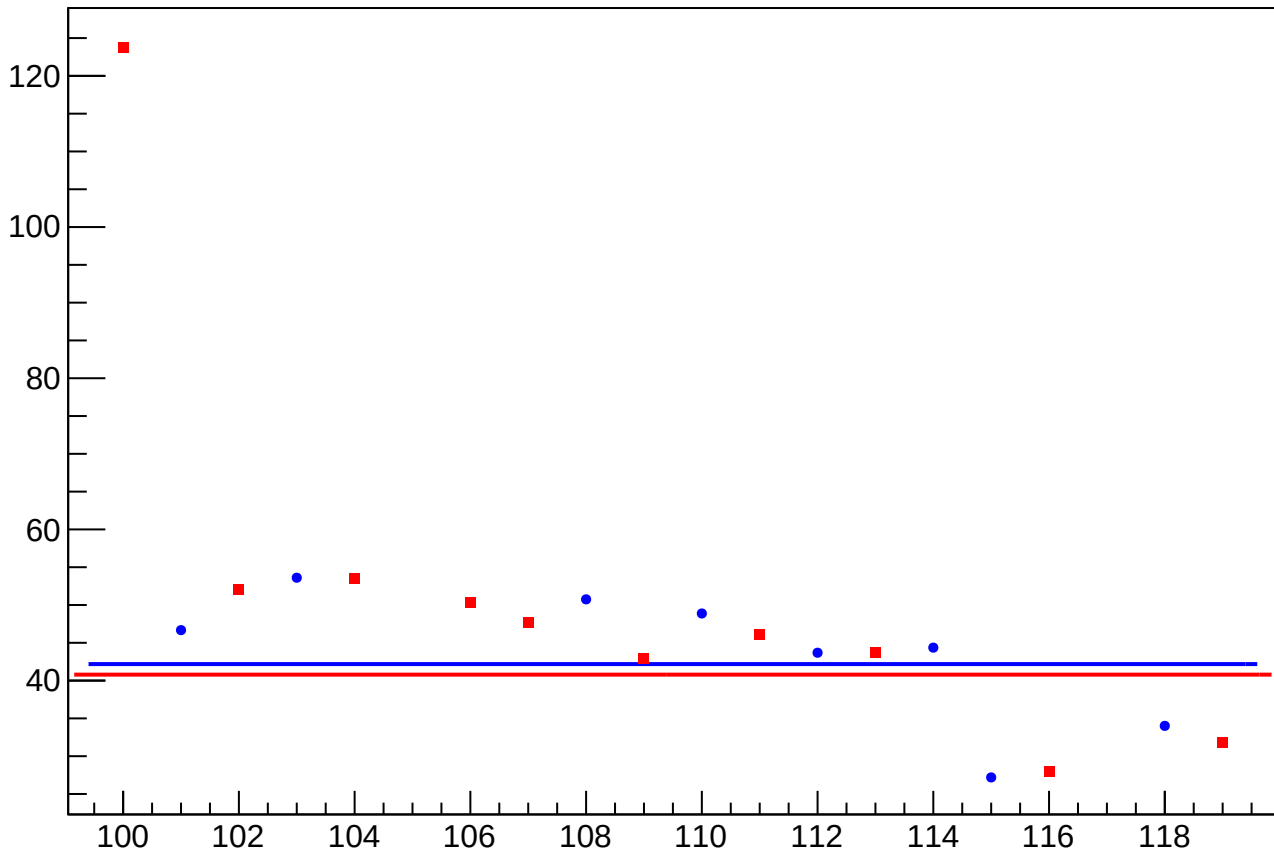
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $24.105 \pm 15.705$   $\chi^2/\text{NDF}$ : 30.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 42.184 $\pm$ 0.017  $\chi^2$ /NDF: 250019.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 40.789 $\pm$ 0.015  $\chi^2$ /NDF: 434523.3/9

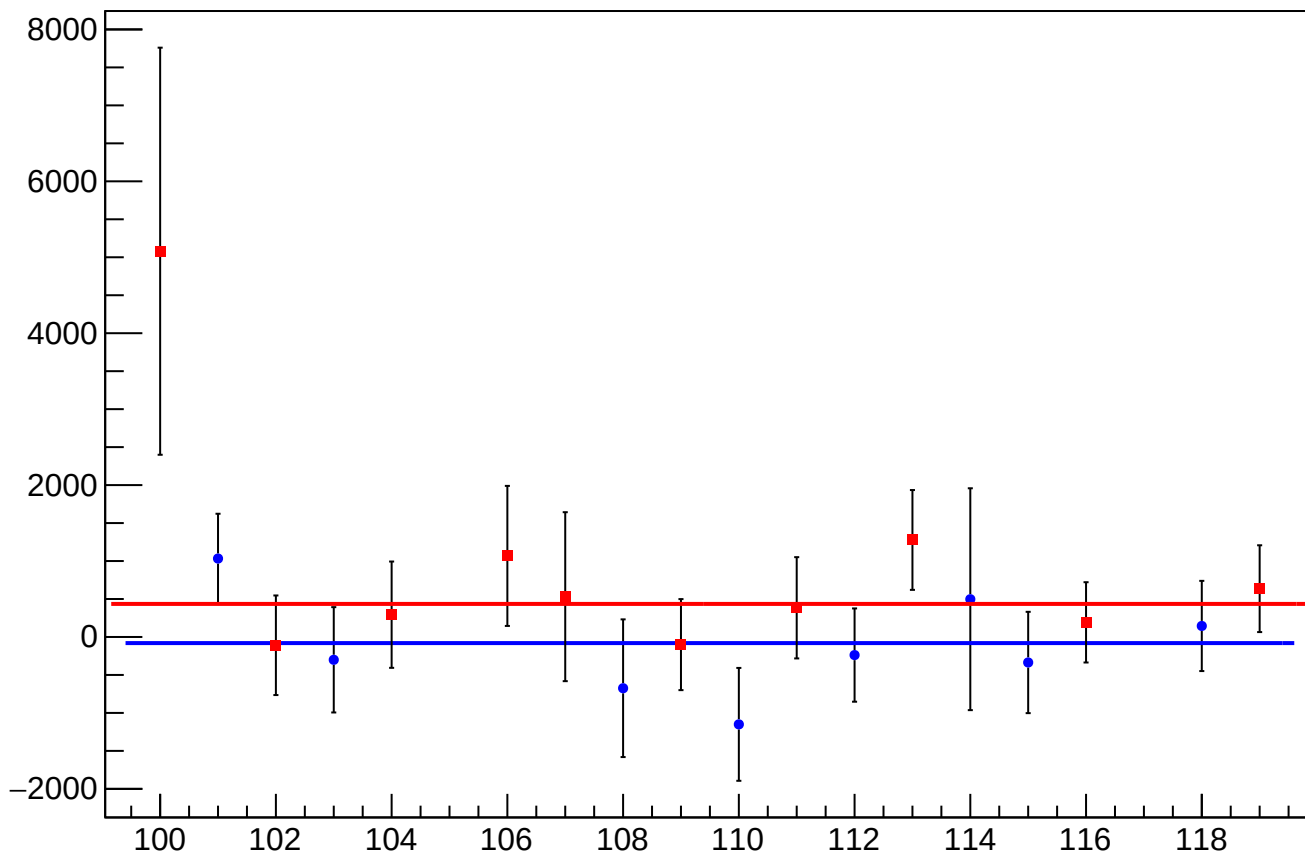
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 41.395 $\pm$ 0.011  $\chi^2$ /NDF: 688422.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_dit\_correction\_mean vs Slug



Right In:  $-80.494 \pm 248.582$   $\chi^2/\text{NDF}$ : 6.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $435.322 \pm 220.977$   $\chi^2/\text{NDF}$ : 7.0/9

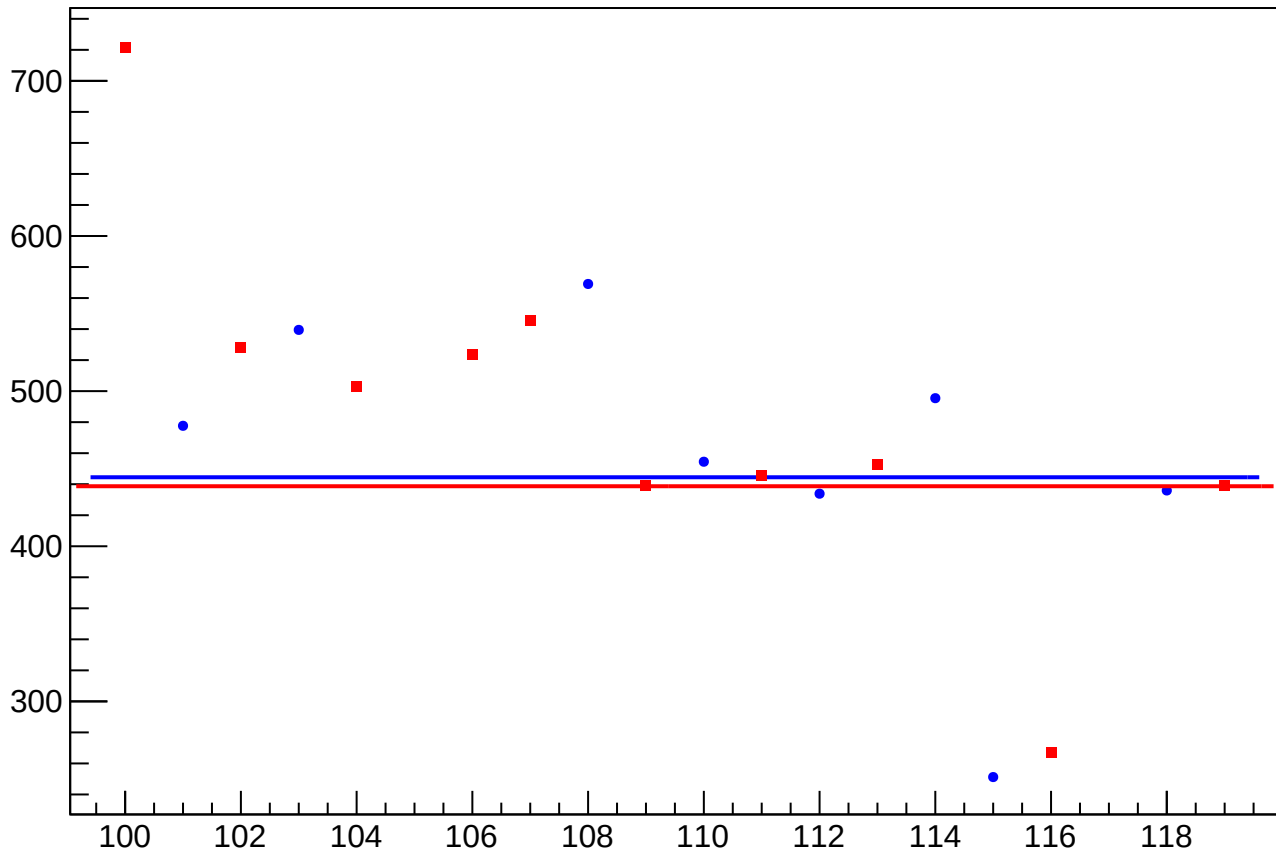
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $207.634 \pm 165.155$   $\chi^2/\text{NDF}$ : 16.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_dit\_correction\_rms vs Slug



Right In: 444.479+/-0.176  $\chi^2/\text{NDF}$ : 253318.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 438.691+/-0.156  $\chi^2/\text{NDF}$ : 323087.2/9

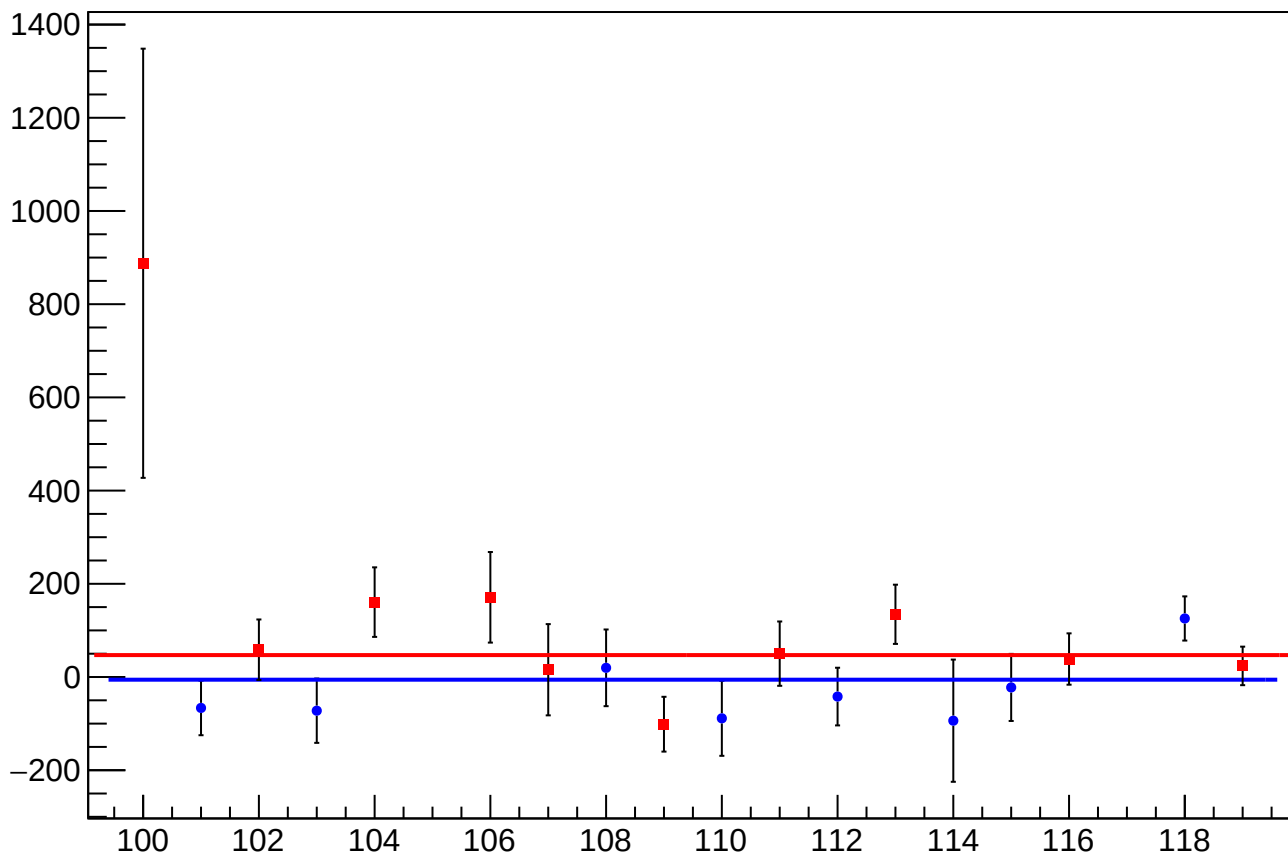
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 441.246+/-0.117  $\chi^2/\text{NDF}$ : 577011.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: -5.769+/-23.830  $\chi^2/\text{NDF}$ : 11.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 47.045+/-20.882  $\chi^2/\text{NDF}$ : 16.0/9

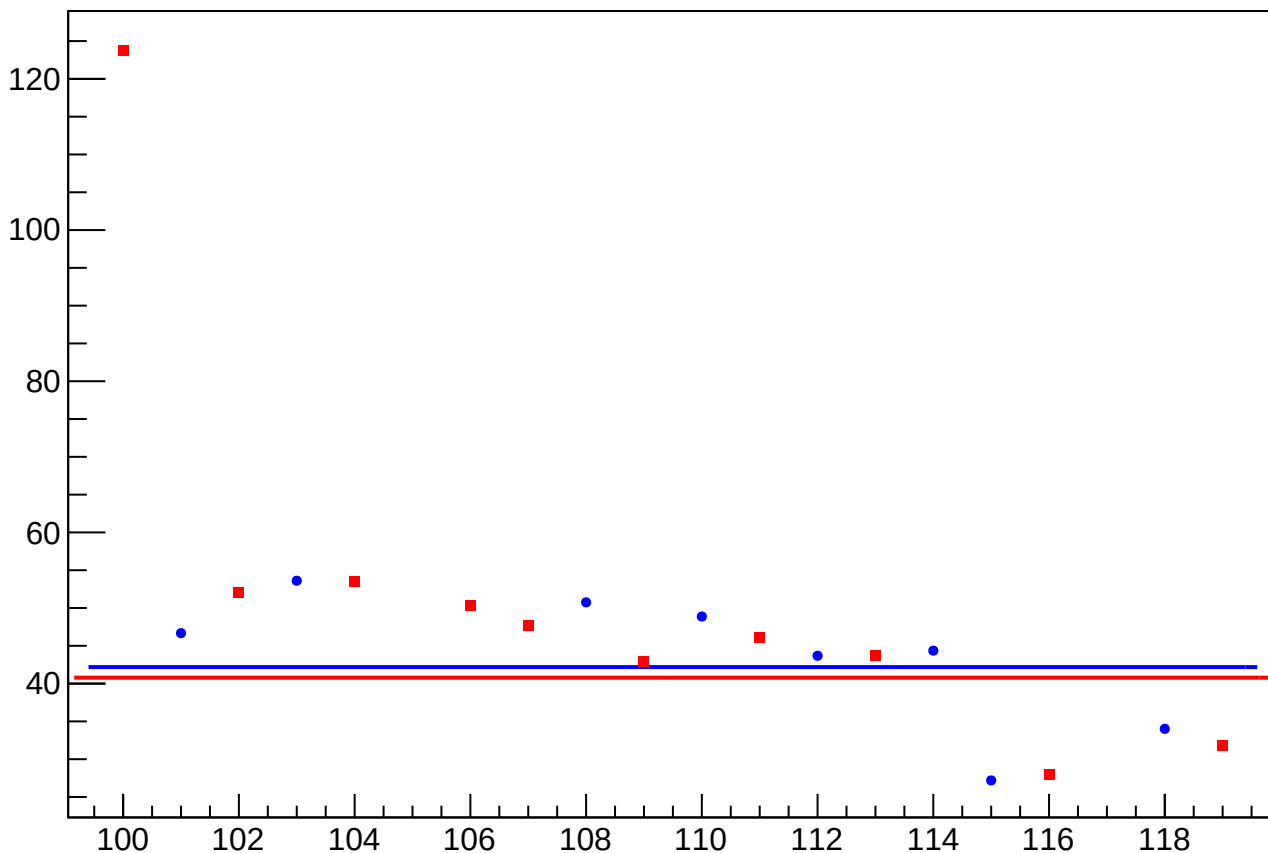
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.105+/-15.705  $\chi^2/\text{NDF}$ : 30.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 42.183 $\pm$ 0.017  $\chi^2$ /NDF: 250012.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 40.788 $\pm$ 0.015  $\chi^2$ /NDF: 434514.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

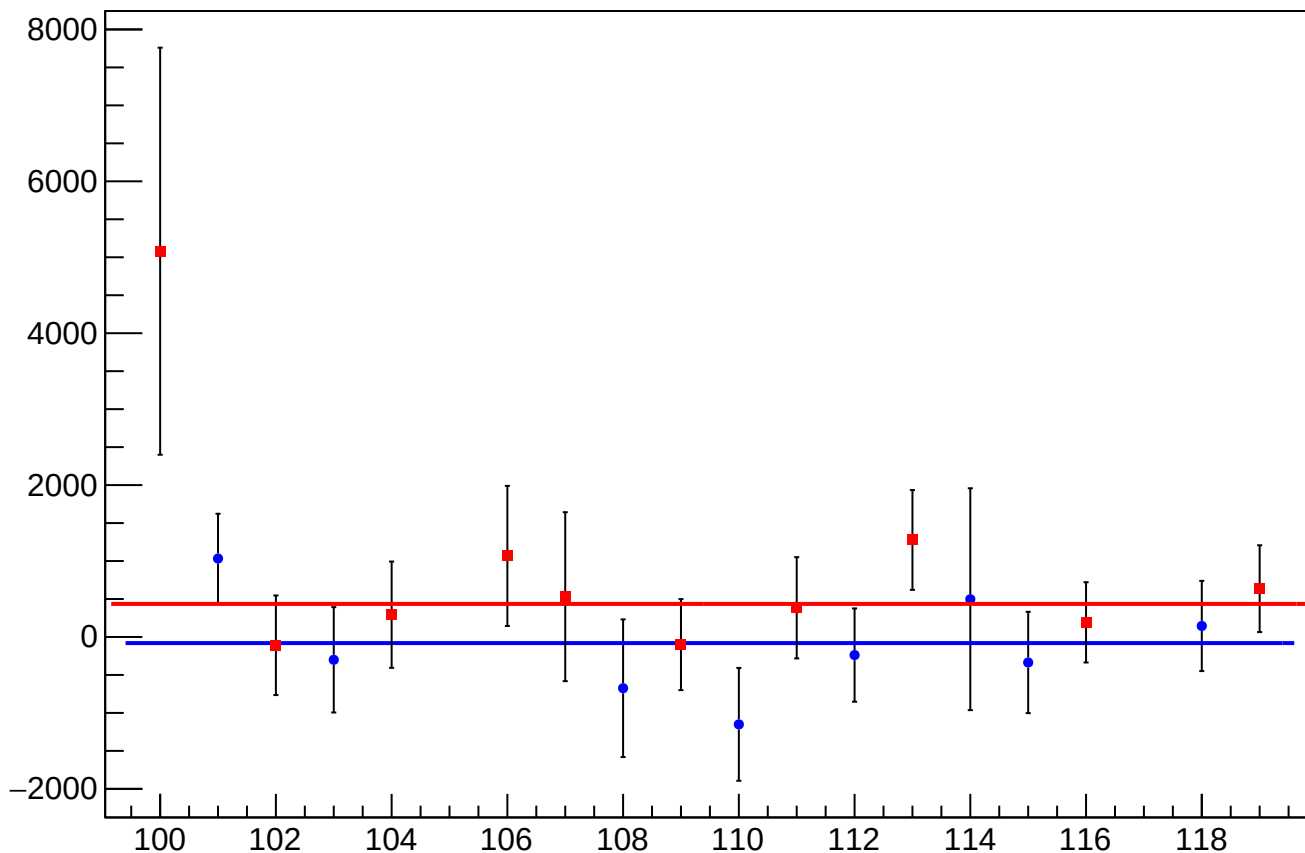
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 41.394 $\pm$ 0.011  $\chi^2$ /NDF: 688406.8/17

- 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:  $-80.495 \pm 248.581$   $\chi^2/\text{NDF}$ : 6.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $435.322 \pm 220.976$   $\chi^2/\text{NDF}$ : 7.0/9

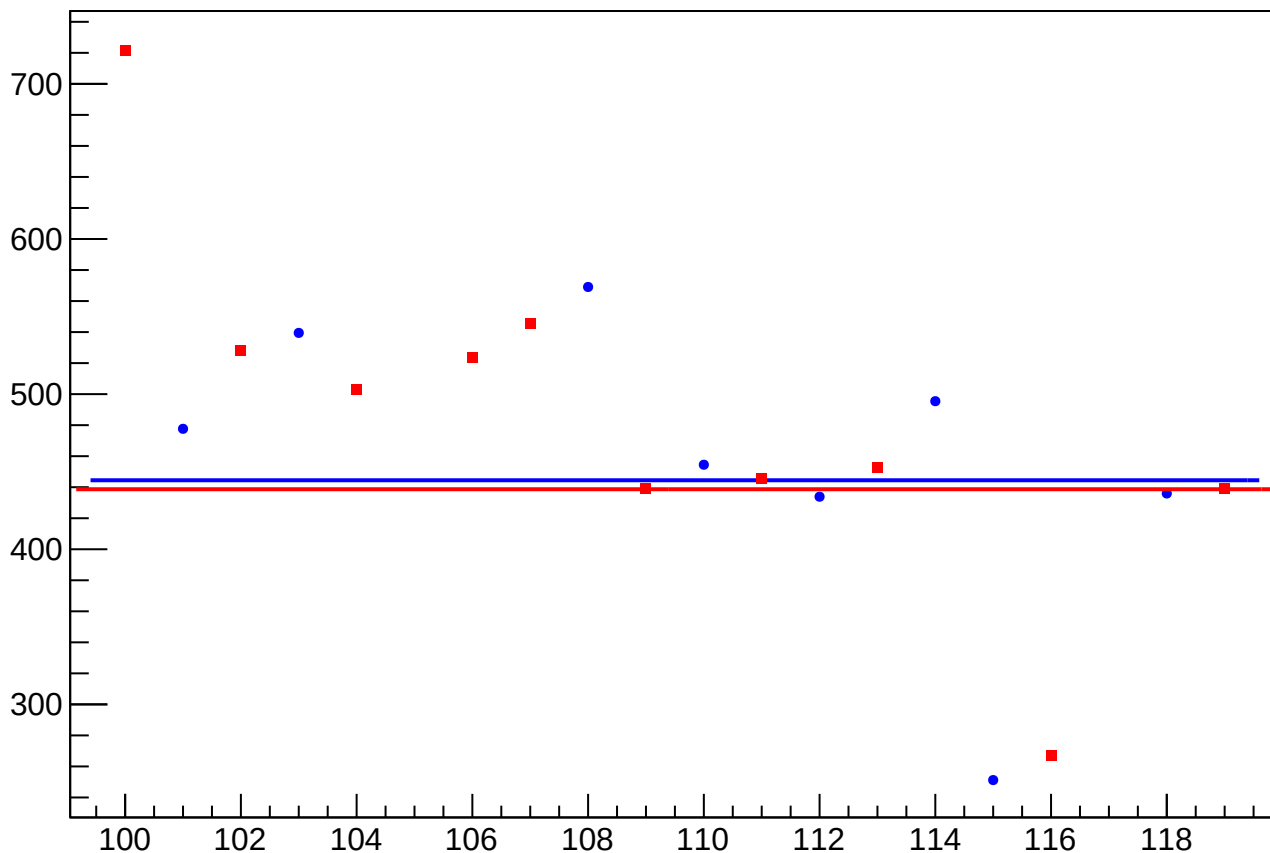
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $207.634 \pm 165.154$   $\chi^2/\text{NDF}$ : 16.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 444.478+/-0.176  $\chi^2/\text{NDF}$ : 253314.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 438.690+/-0.156  $\chi^2/\text{NDF}$ : 323082.9/9

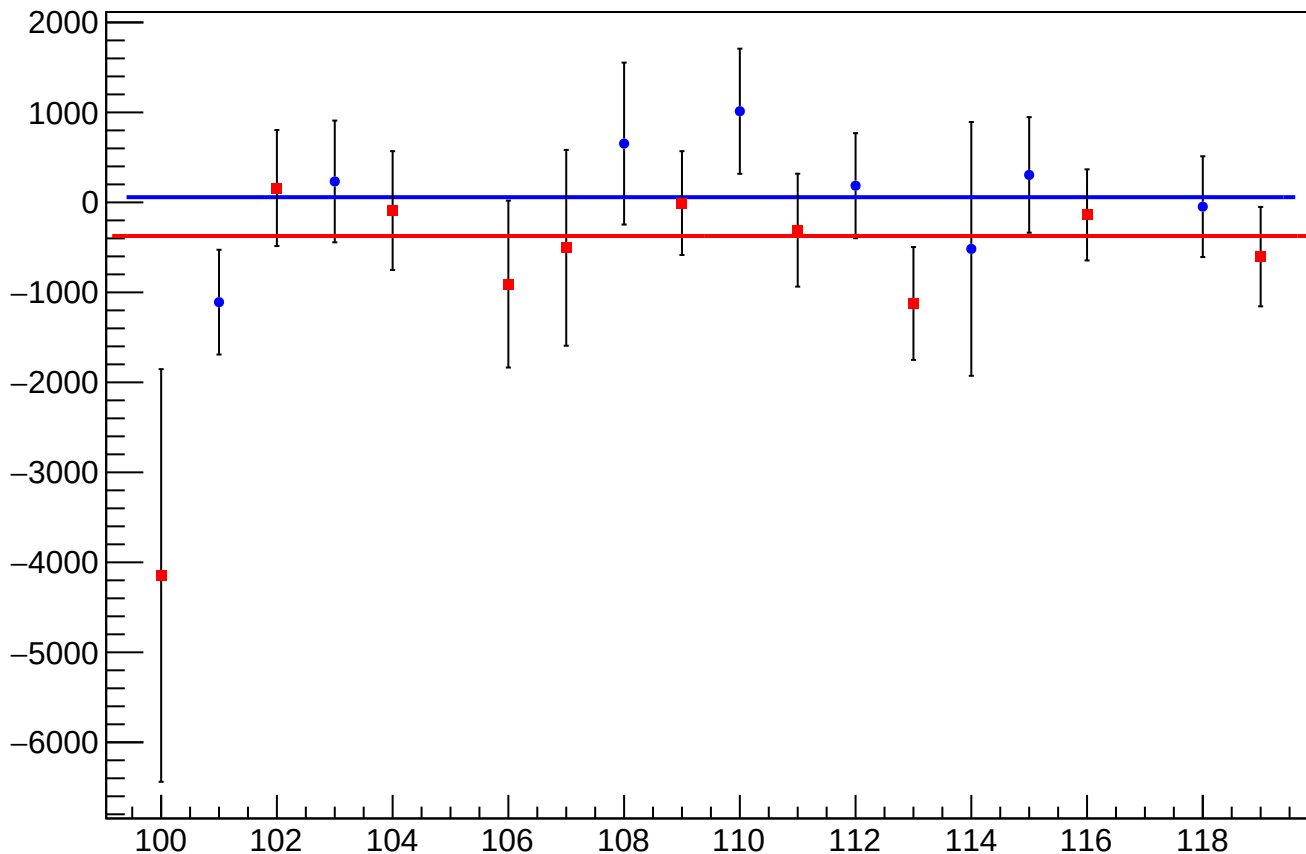
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 441.245+/-0.117  $\chi^2/\text{NDF}$ : 577002.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: 57.914 $\pm$ 239.087  $\chi^2$ /NDF: 6.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -373.394 $\pm$ 212.379  $\chi^2$ /NDF: 6.2/9

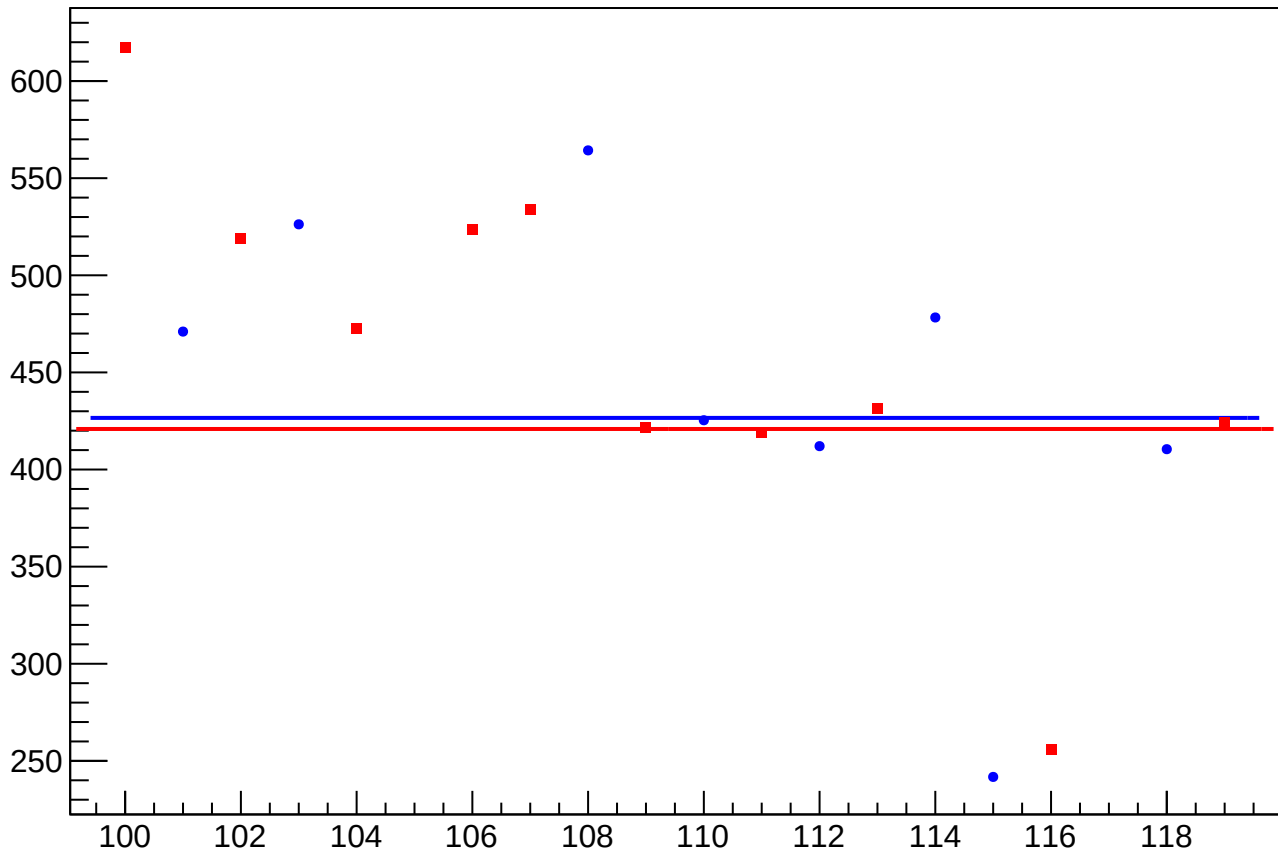
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -183.166 $\pm$ 158.781  $\chi^2$ /NDF: 14.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 426.582 $\pm$ 0.169  $\chi^2$ /NDF: 273205.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 420.878 $\pm$ 0.150  $\chi^2$ /NDF: 332631.0/9

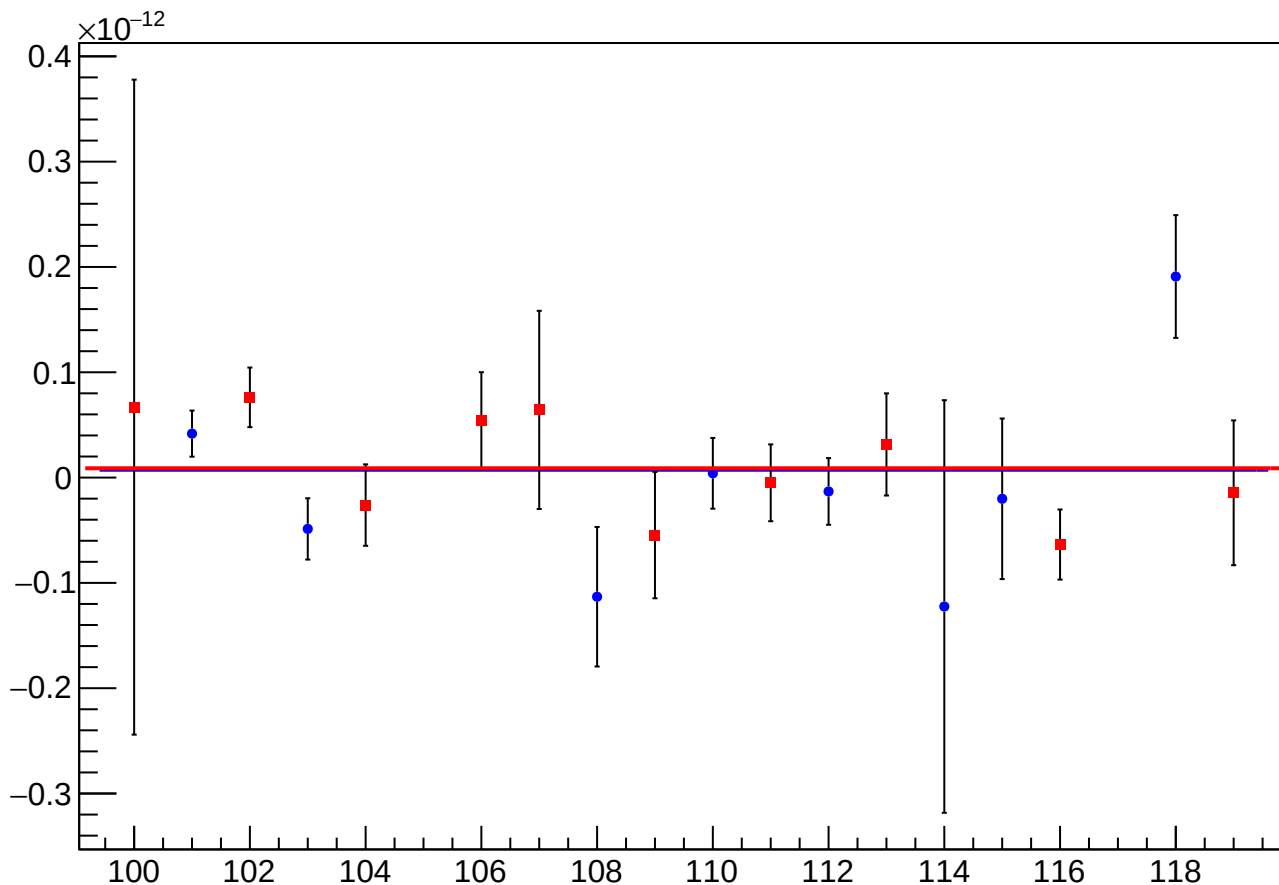
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 423.394 $\pm$ 0.112  $\chi^2$ /NDF: 606472.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.1/9

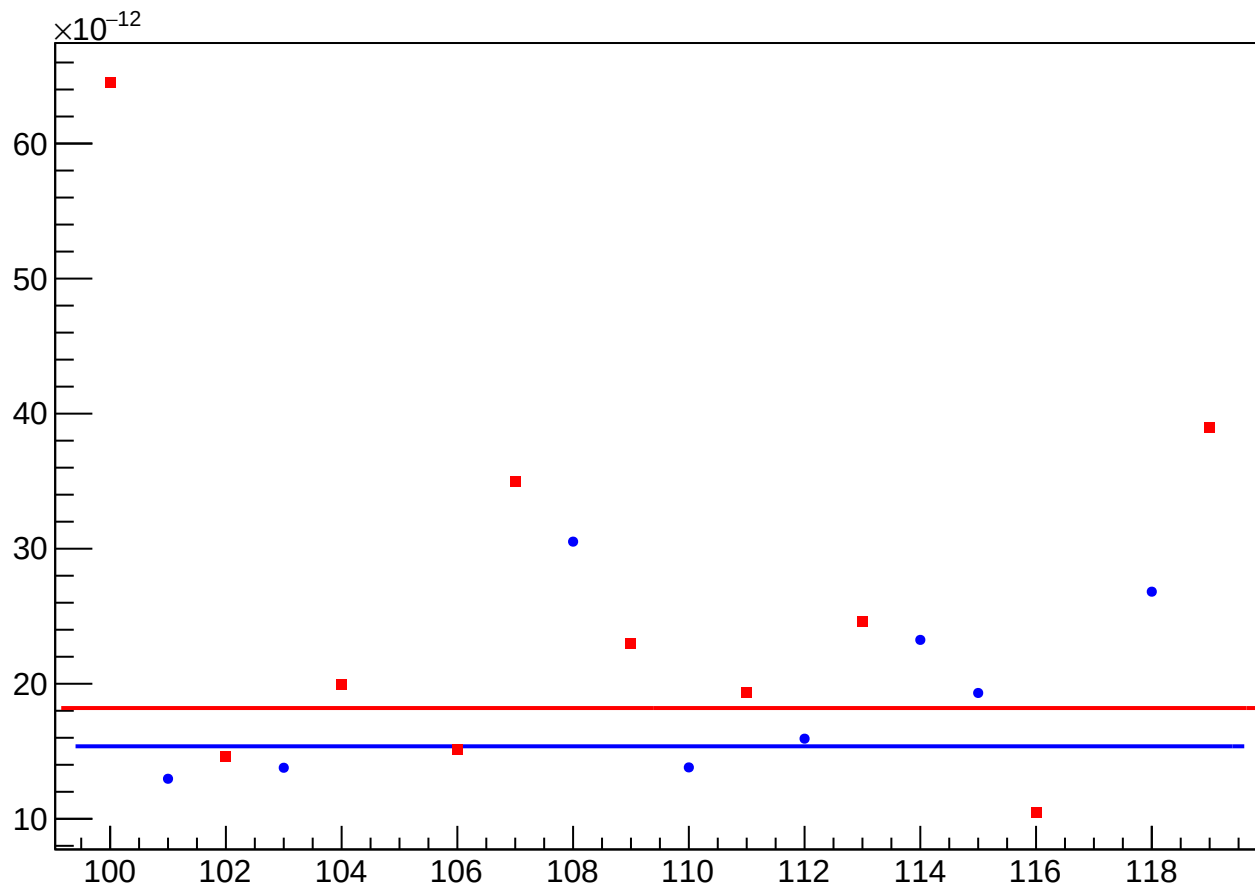
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 34.5/17

- 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  $\chi^2/\text{NDF}$ : 225437.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 492442.5/9

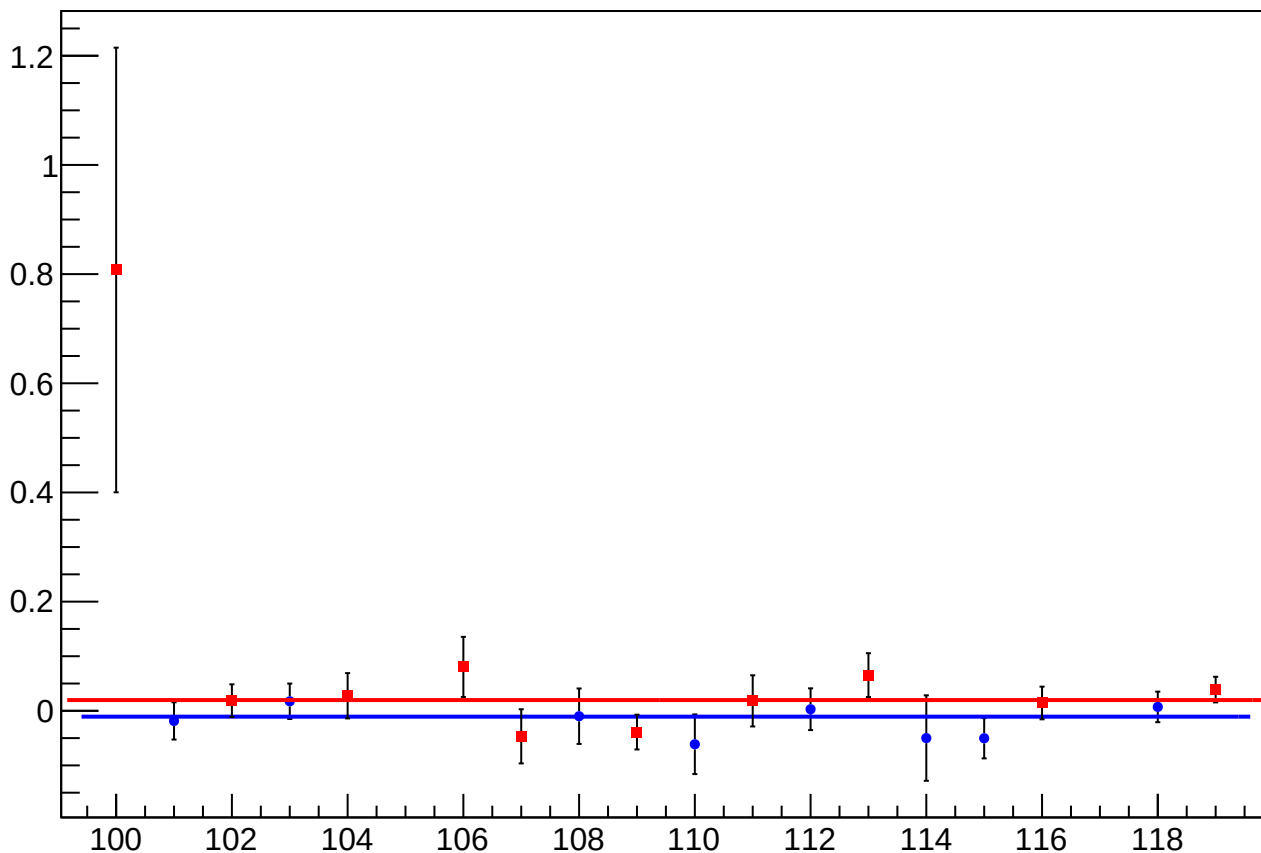
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 761586.4/17

- 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: -0.011 $\pm$ 0.014  $\chi^2$ /NDF: 3.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.020 $\pm$ 0.012  $\chi^2$ /NDF: 12.2/9

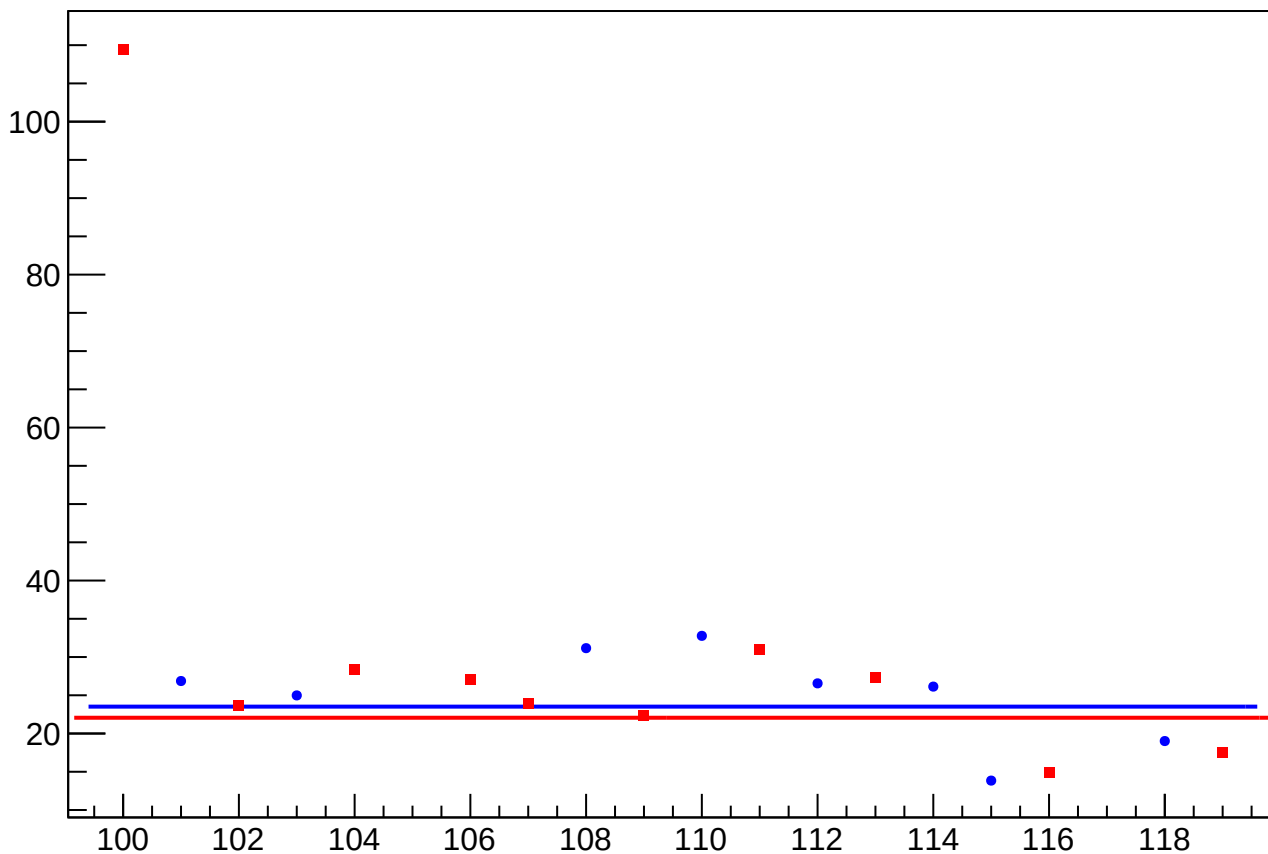
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.007 $\pm$ 0.009  $\chi^2$ /NDF: 18.7/17

- 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: 23.516+/-0.010  $\chi^2/\text{NDF}$ : 330267.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.062+/-0.008  $\chi^2/\text{NDF}$ : 456625.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

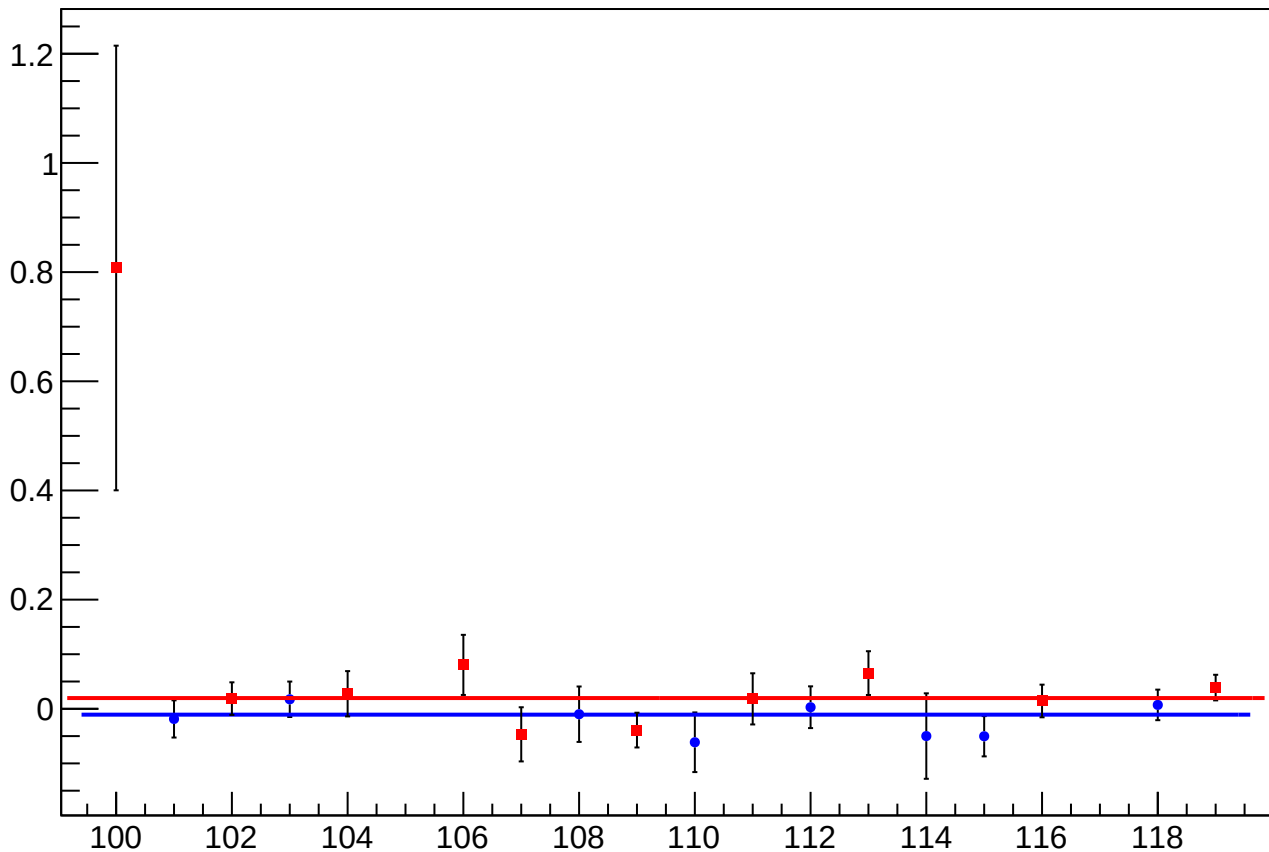
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.673+/-0.006  $\chi^2/\text{NDF}$ : 800110.7/17

- 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: -0.011 $\pm$ 0.014  $\chi^2$ /NDF: 3.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.020 $\pm$ 0.012  $\chi^2$ /NDF: 12.2/9

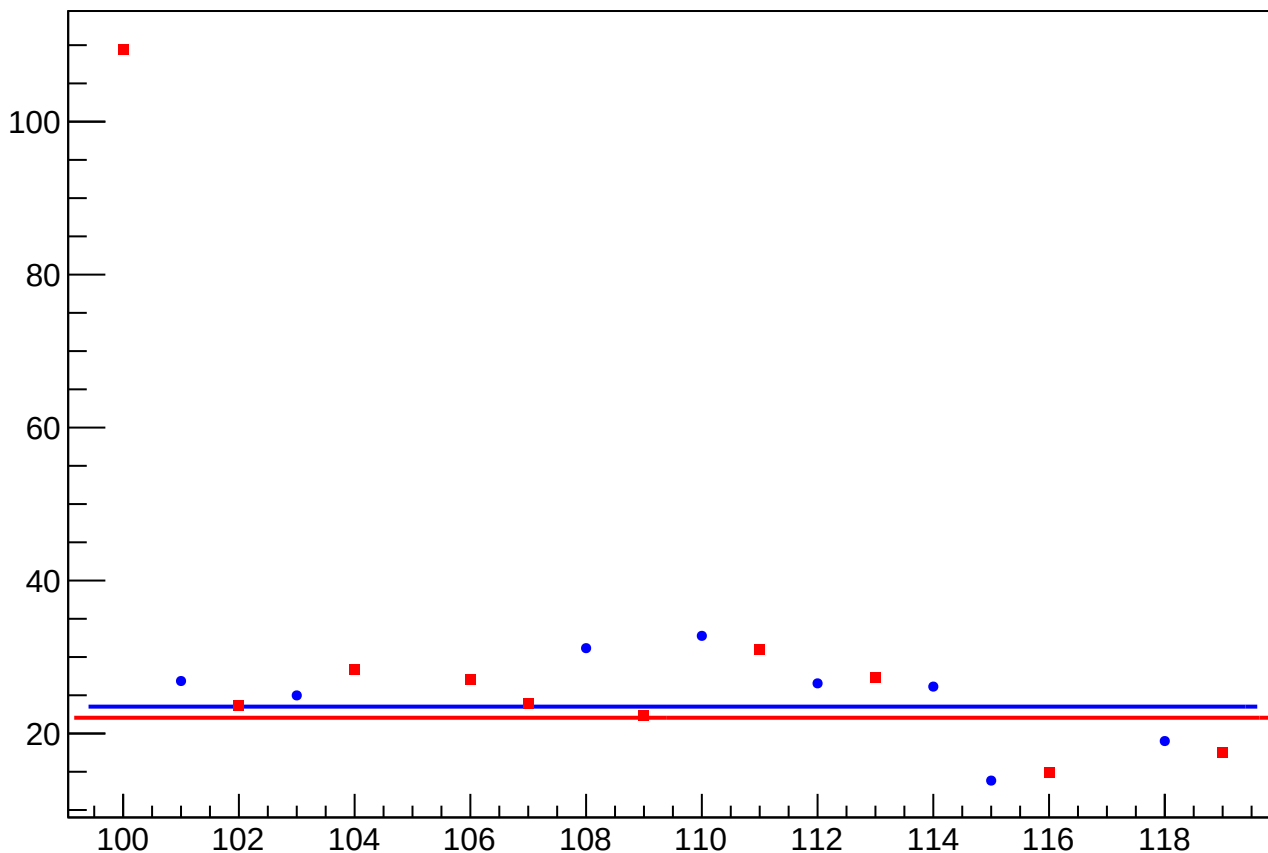
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.007 $\pm$ 0.009  $\chi^2$ /NDF: 18.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 23.516+/-0.010  $\chi^2/\text{NDF}$ : 330267.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.062+/-0.008  $\chi^2/\text{NDF}$ : 456625.1/9

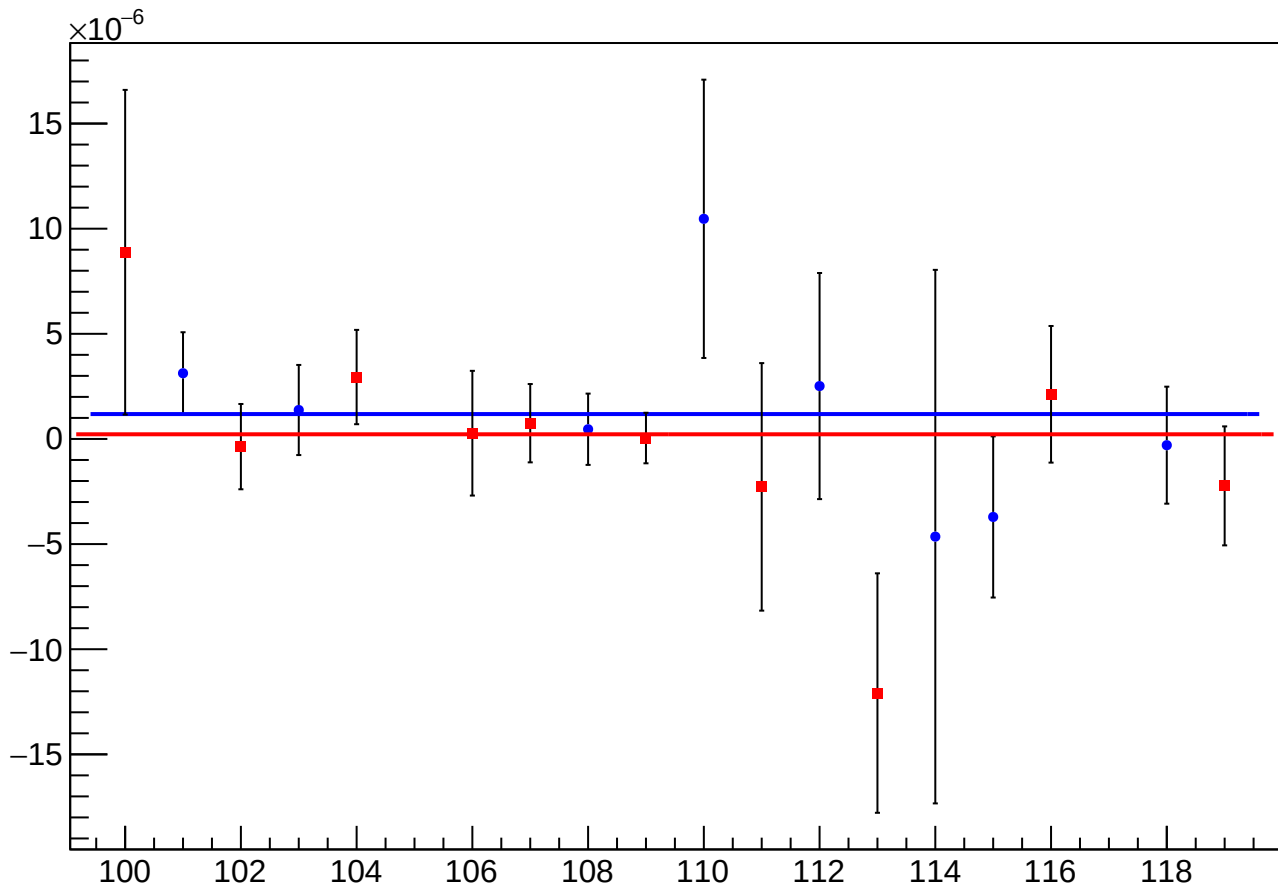
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.673+/-0.006  $\chi^2/\text{NDF}$ : 800110.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

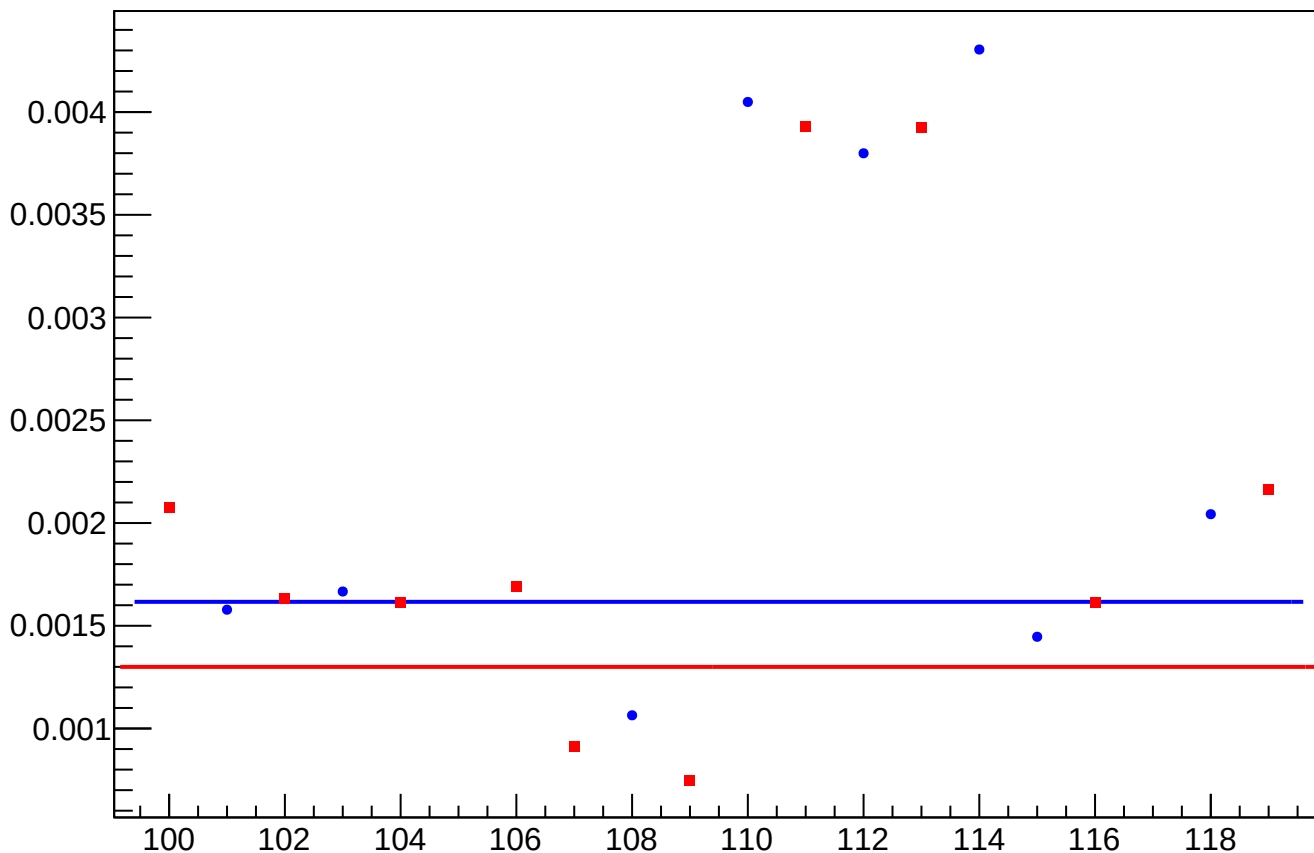
asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.3/7  
 Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.9/9  
 Left In: 0.000 $\pm$ 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: 14.8/17  
 - 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+/-0.000  $\chi^2/\text{NDF}$ : 954722.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1686677.9/9

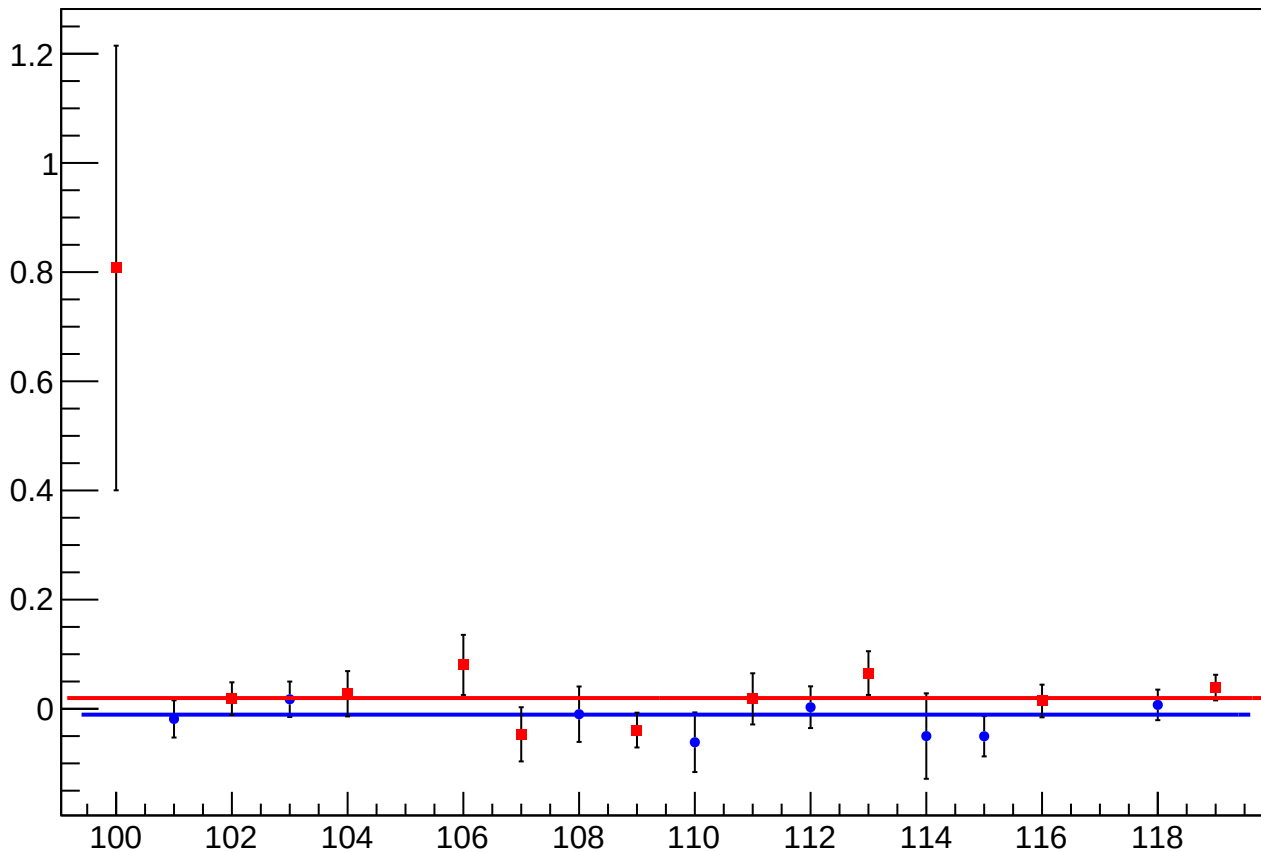
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2778342.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.011 $\pm$ 0.014  $\chi^2$ /NDF: 3.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.020 $\pm$ 0.012  $\chi^2$ /NDF: 12.2/9

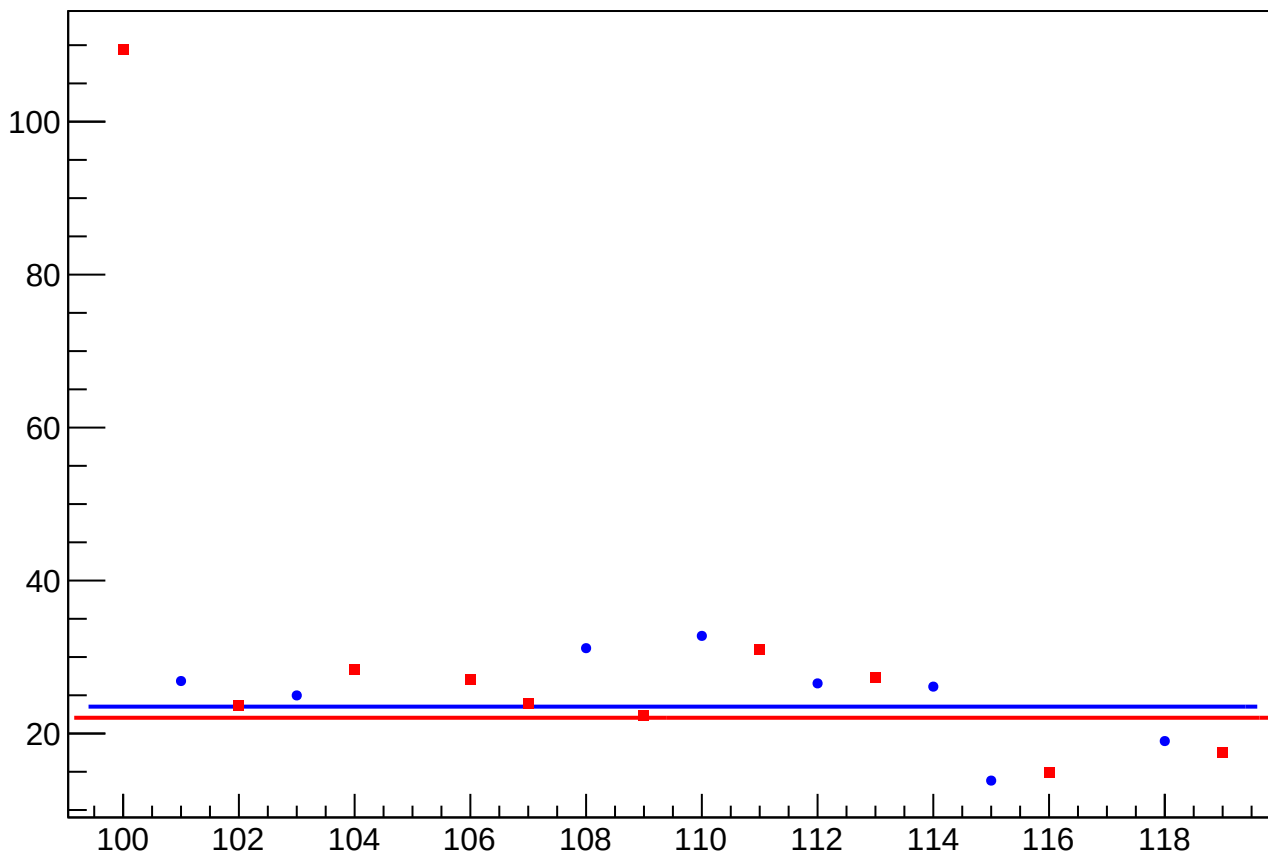
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.007 $\pm$ 0.009  $\chi^2$ /NDF: 18.7/17

- 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: 23.515+/-0.010  $\chi^2/\text{NDF}$ : 330210.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.061+/-0.008  $\chi^2/\text{NDF}$ : 456582.8/9

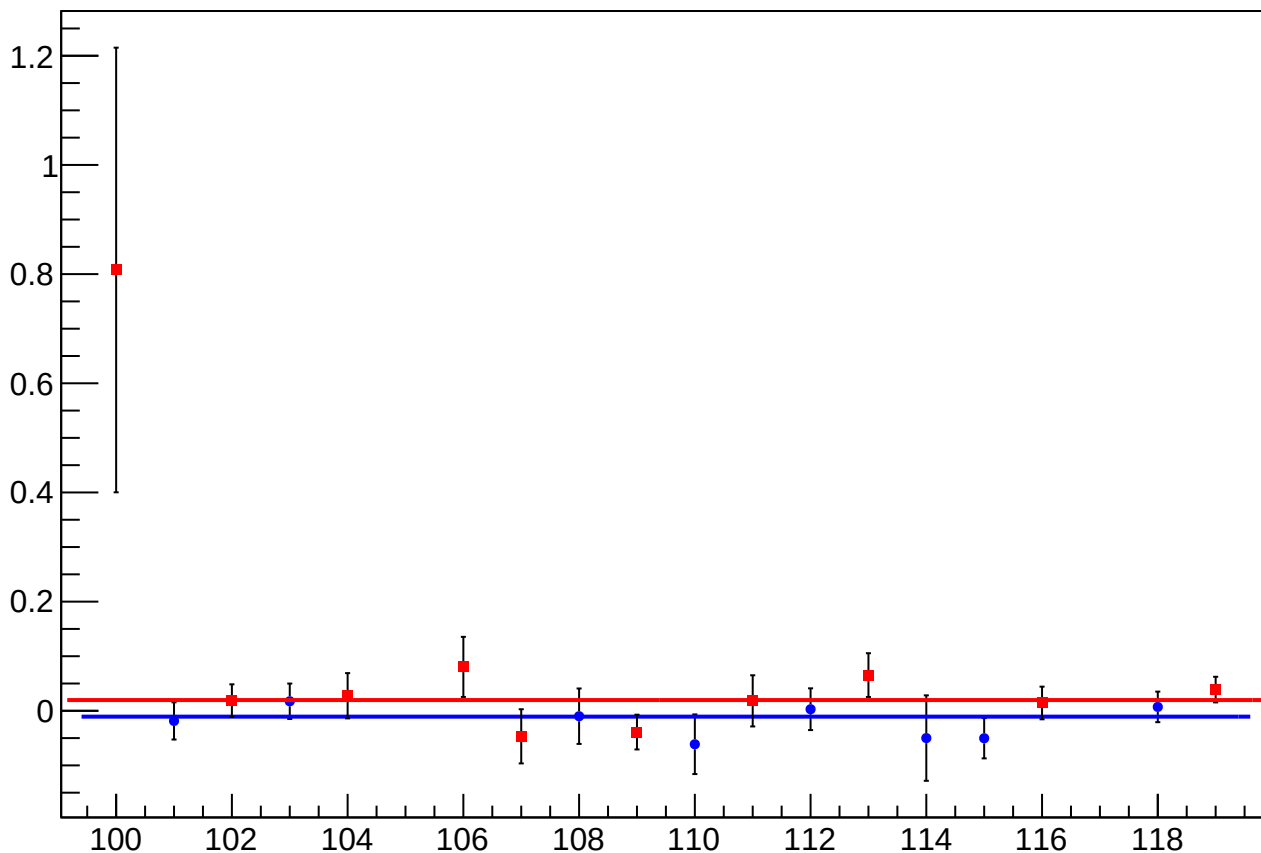
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.672+/-0.006  $\chi^2/\text{NDF}$ : 800016.7/17

- 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: -0.011 $\pm$ 0.014  $\chi^2$ /NDF: 3.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.020 $\pm$ 0.012  $\chi^2$ /NDF: 12.2/9

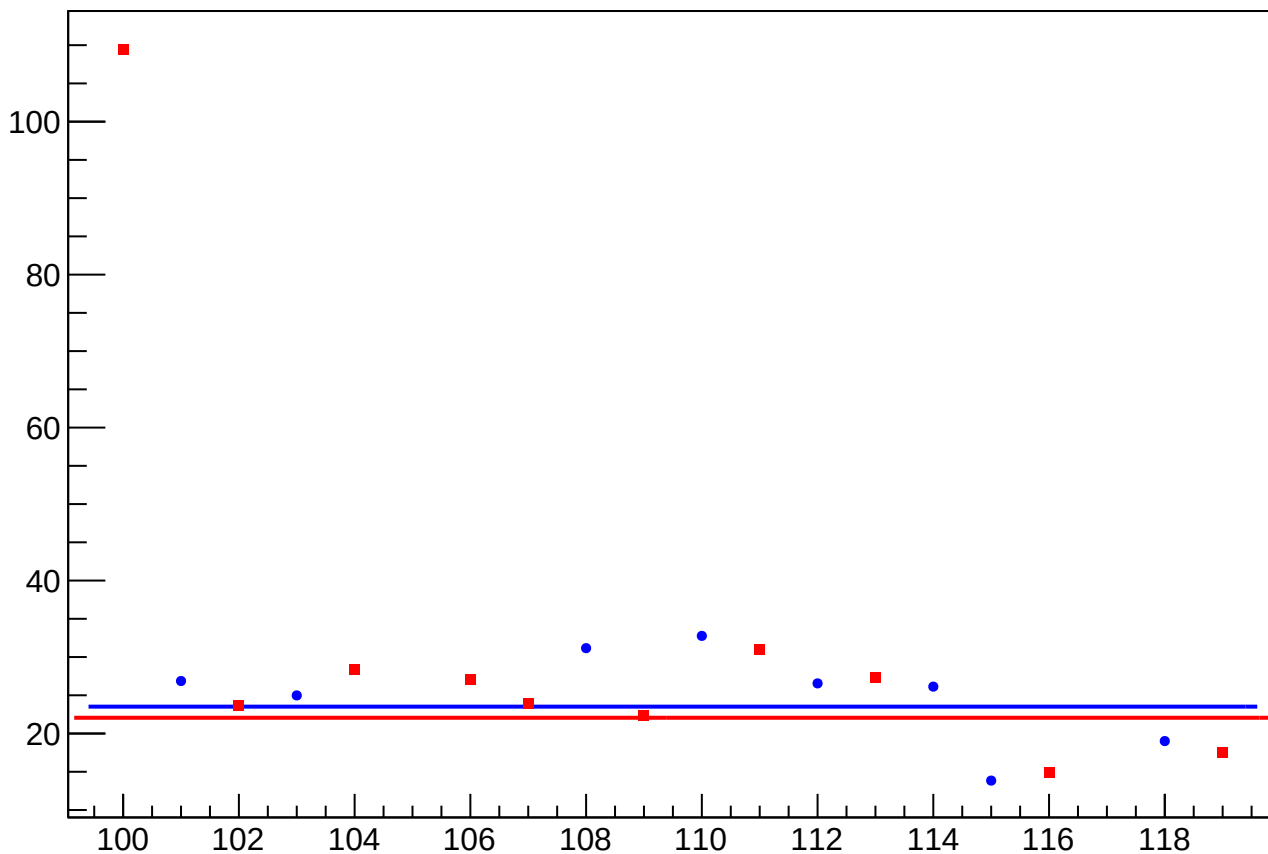
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.007 $\pm$ 0.009  $\chi^2$ /NDF: 18.7/17

- 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: 23.515+/-0.010  $\chi^2/\text{NDF}$ : 330210.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.061+/-0.008  $\chi^2/\text{NDF}$ : 456582.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

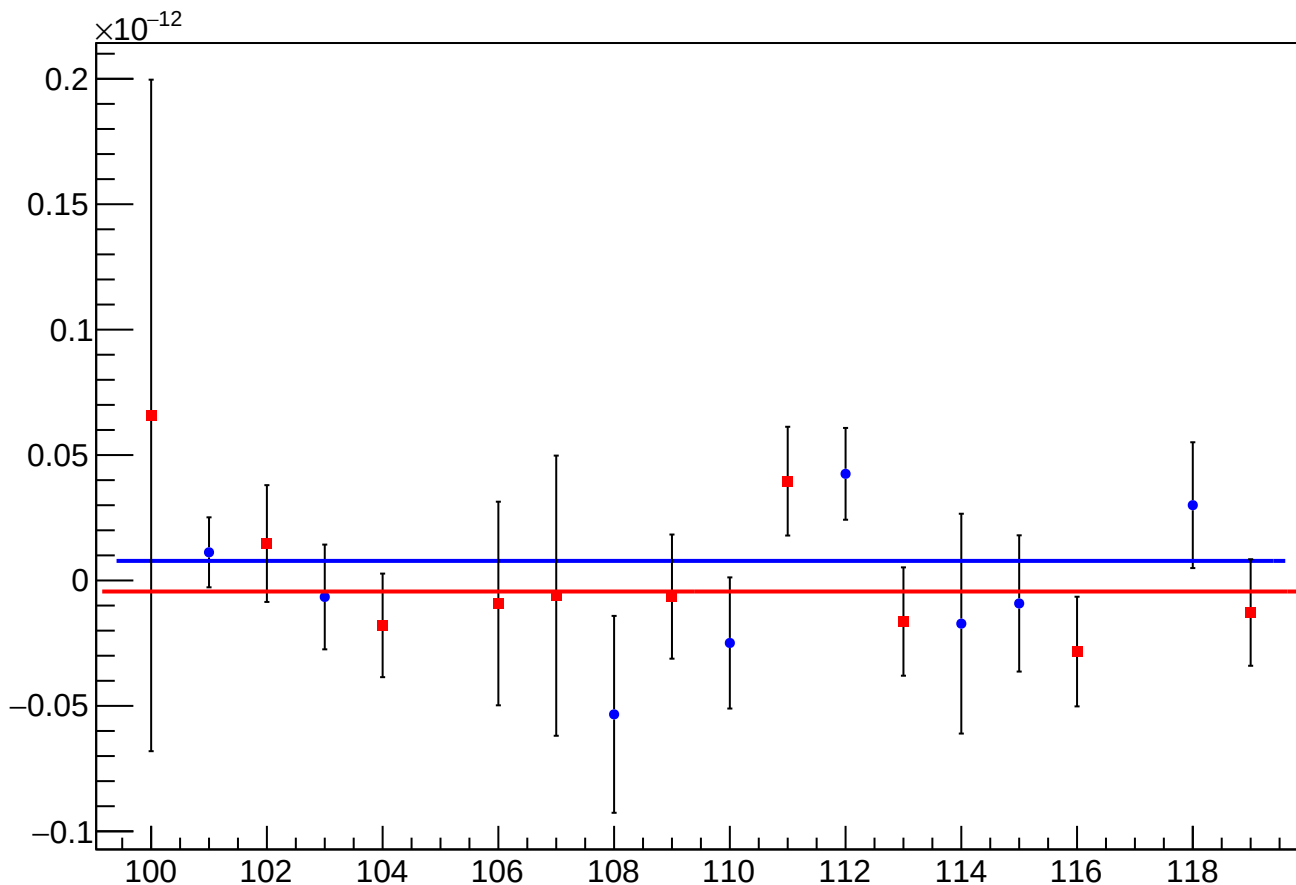
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.672+/-0.006  $\chi^2/\text{NDF}$ : 800016.7/17

- 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: 9.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.2/9

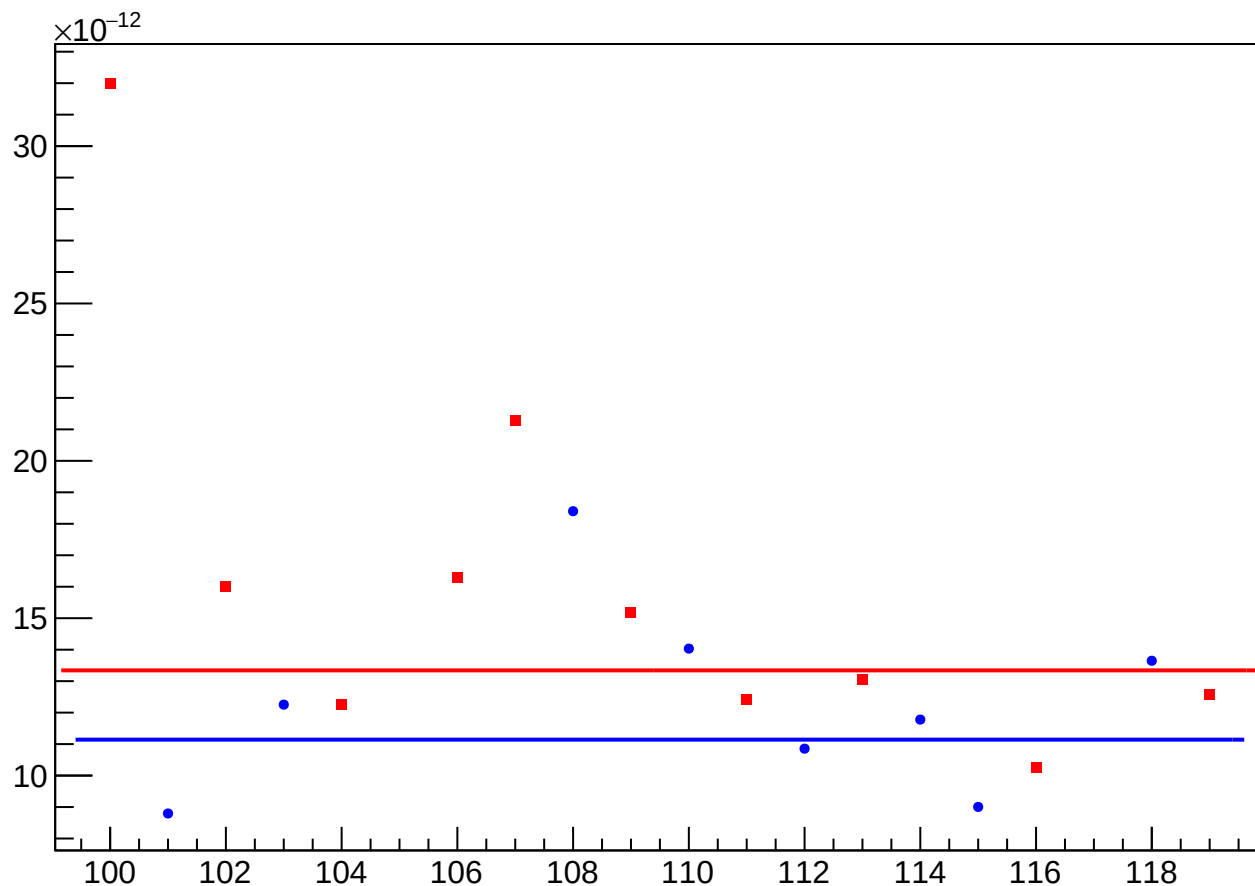
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 18.0/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 188415.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 178914.6/9

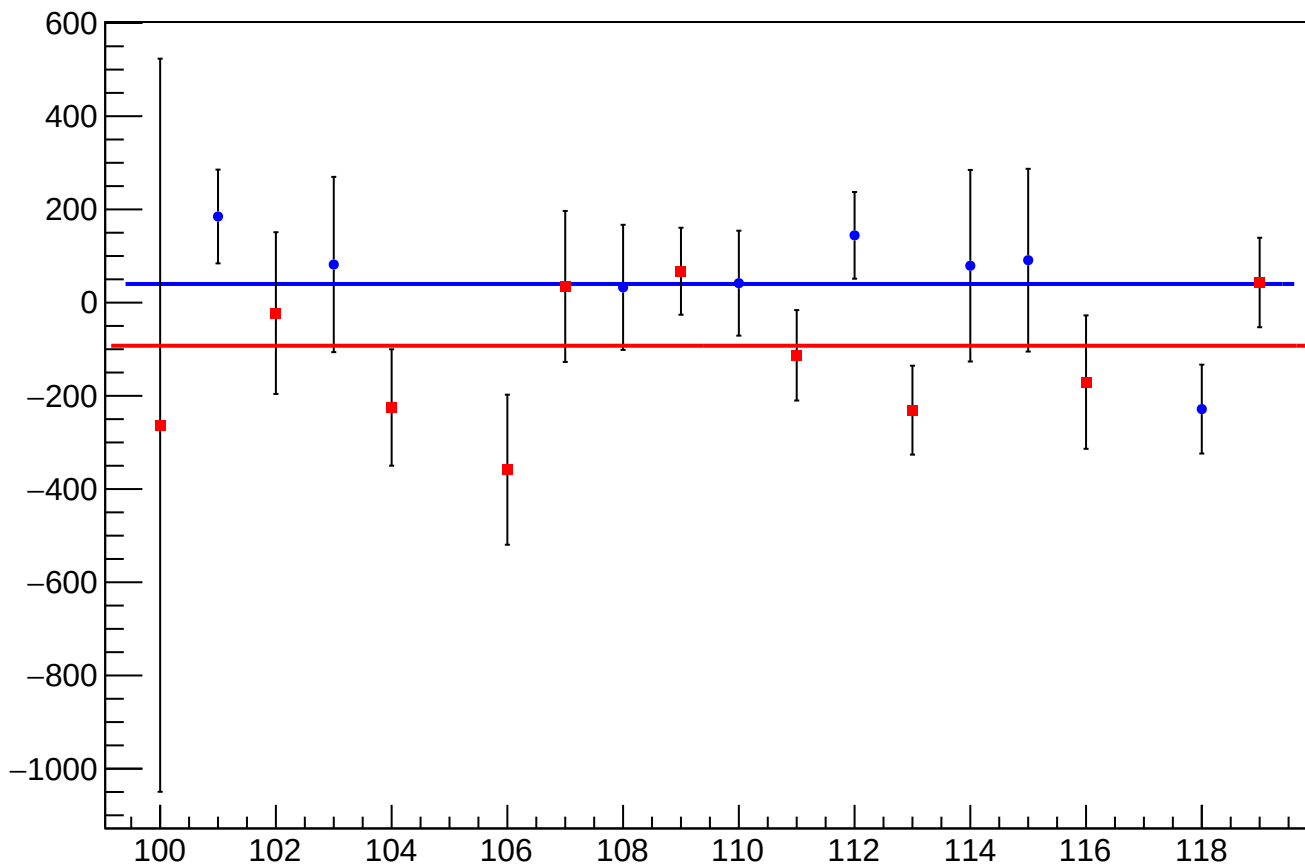
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 443307.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 40.031+/-43.157  $\chi^2/\text{NDF}$ : 11.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -92.465+/-38.810  $\chi^2/\text{NDF}$ : 12.1/9

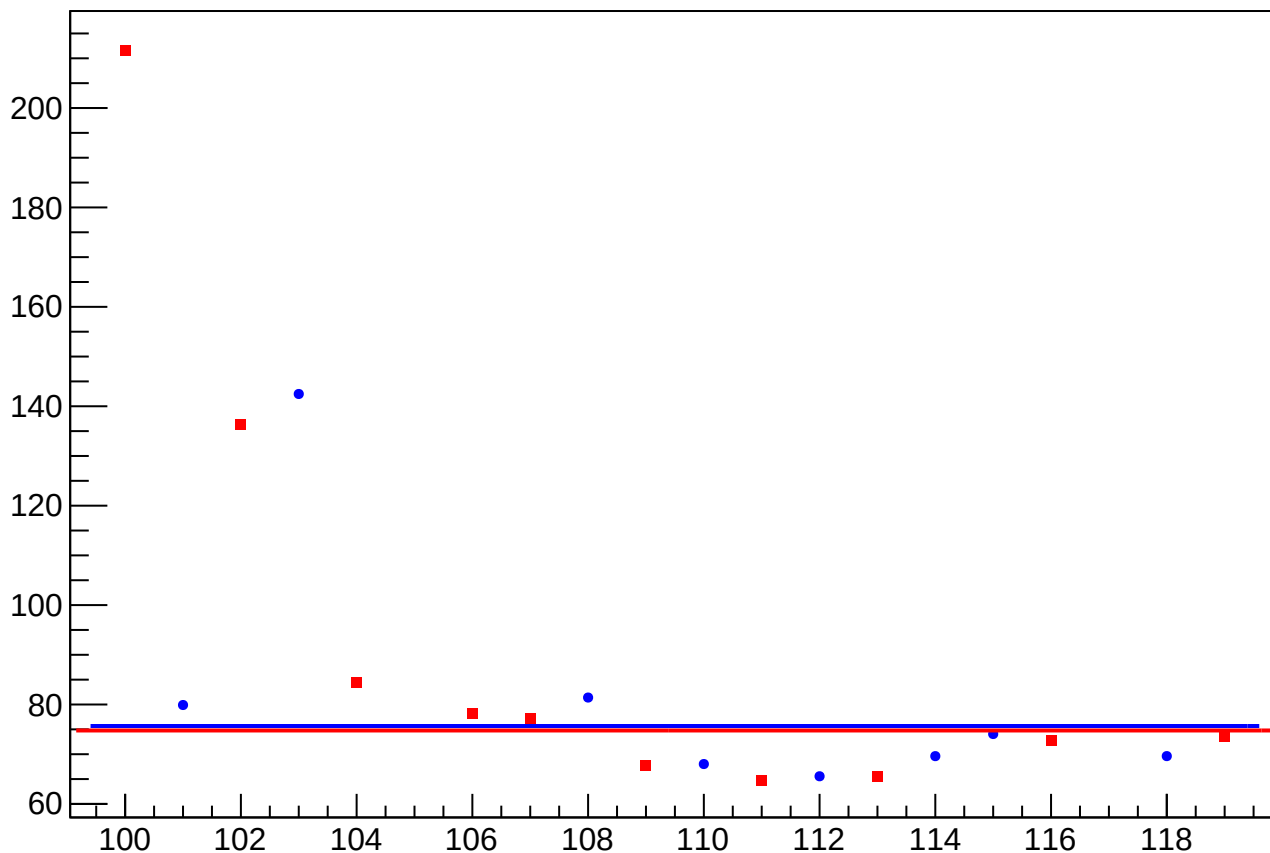
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -33.225+/-28.858  $\chi^2/\text{NDF}$ : 28.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 75.674 $\pm$ 0.031  $\chi^2$ /NDF: 302364.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 74.775 $\pm$ 0.027  $\chi^2$ /NDF: 378250.4/9

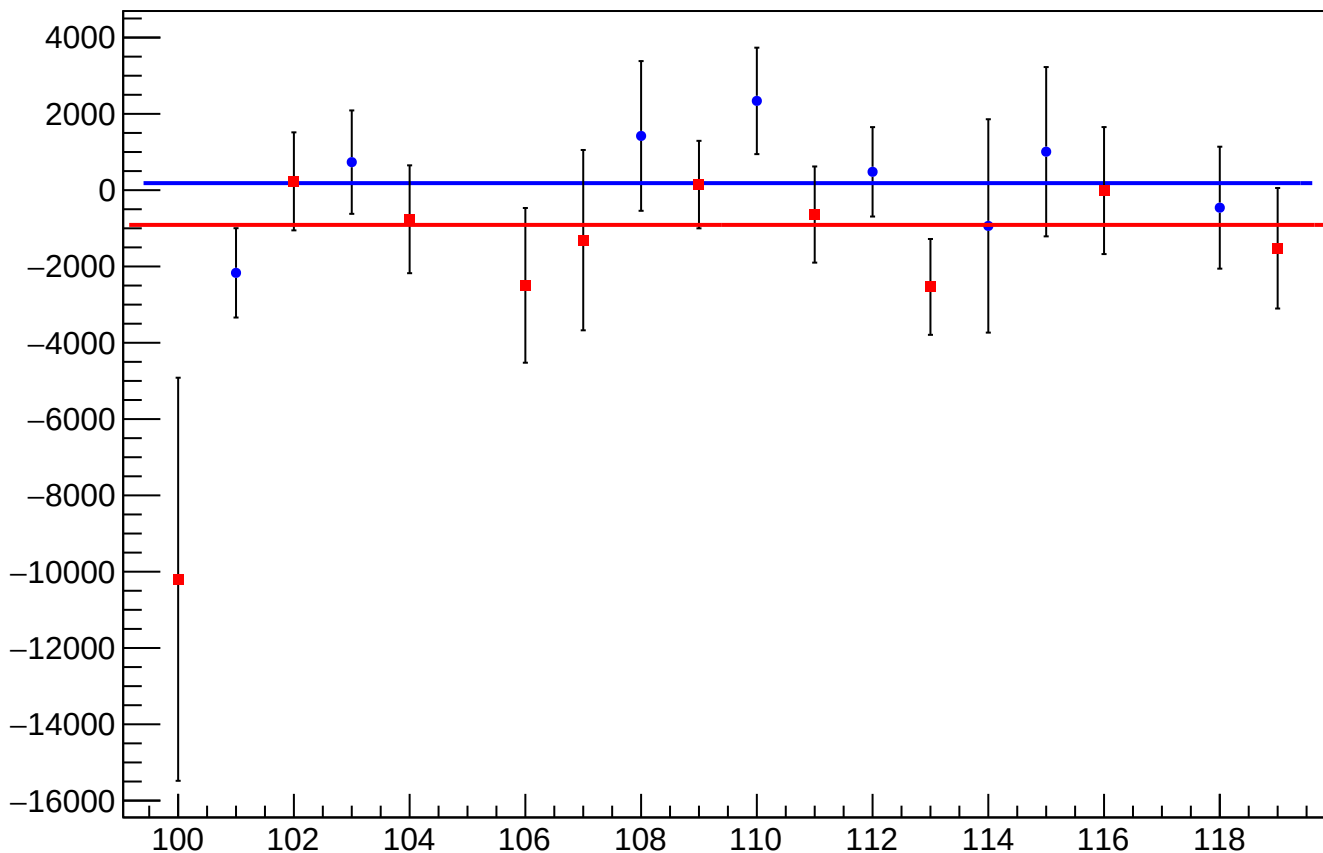
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 75.177 $\pm$ 0.020  $\chi^2$ /NDF: 681095.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_reg\_correction\_mean vs Slug



Right In: 184.390+/-534.647  $\chi^2/\text{NDF}$ : 7.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -910.446+/-479.438  $\chi^2/\text{NDF}$ : 7.5/9

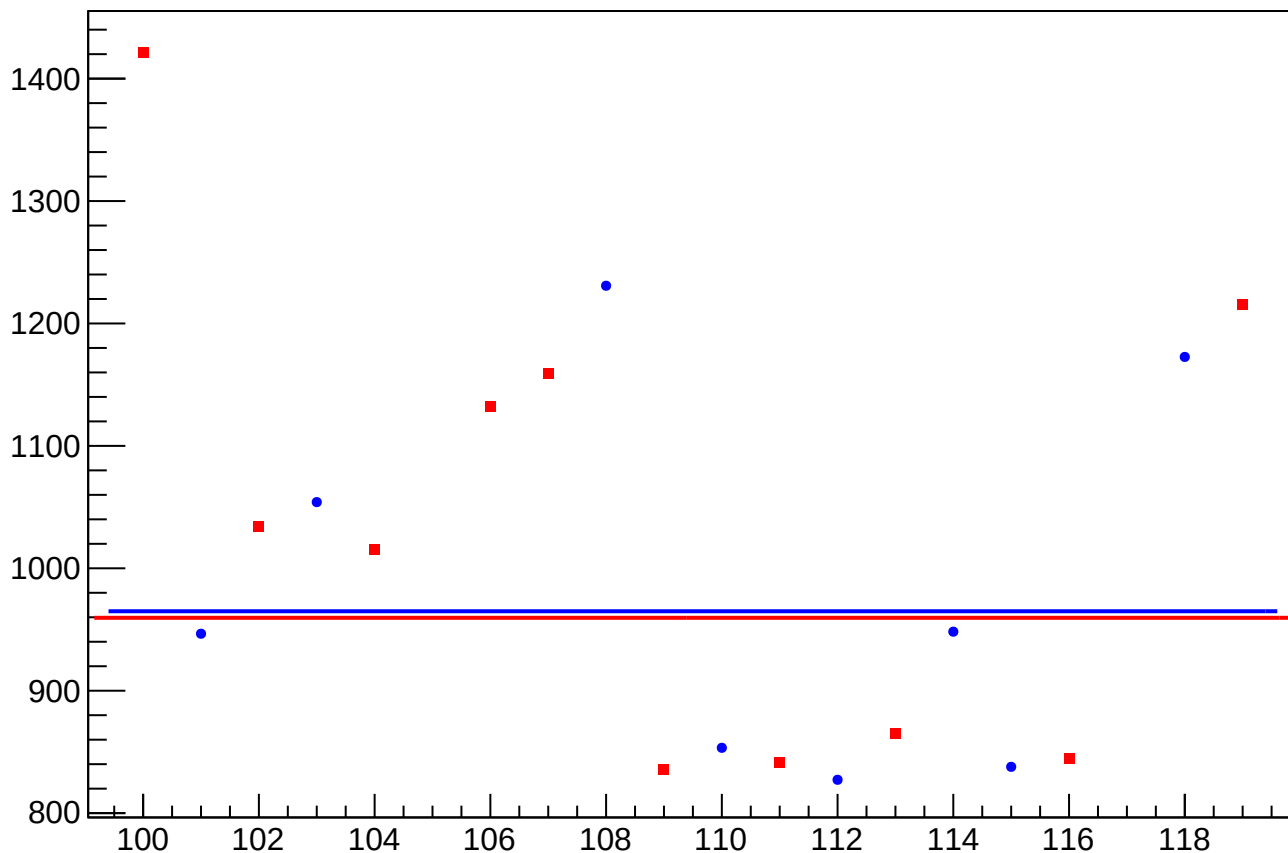
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -422.458+/-356.942  $\chi^2/\text{NDF}$ : 17.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_reg\_correction\_rms vs Slug



Right In: 964.919+/-0.378  $\chi^2/\text{NDF}$ : 126697.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 959.564+/-0.339  $\chi^2/\text{NDF}$ : 168271.1/9

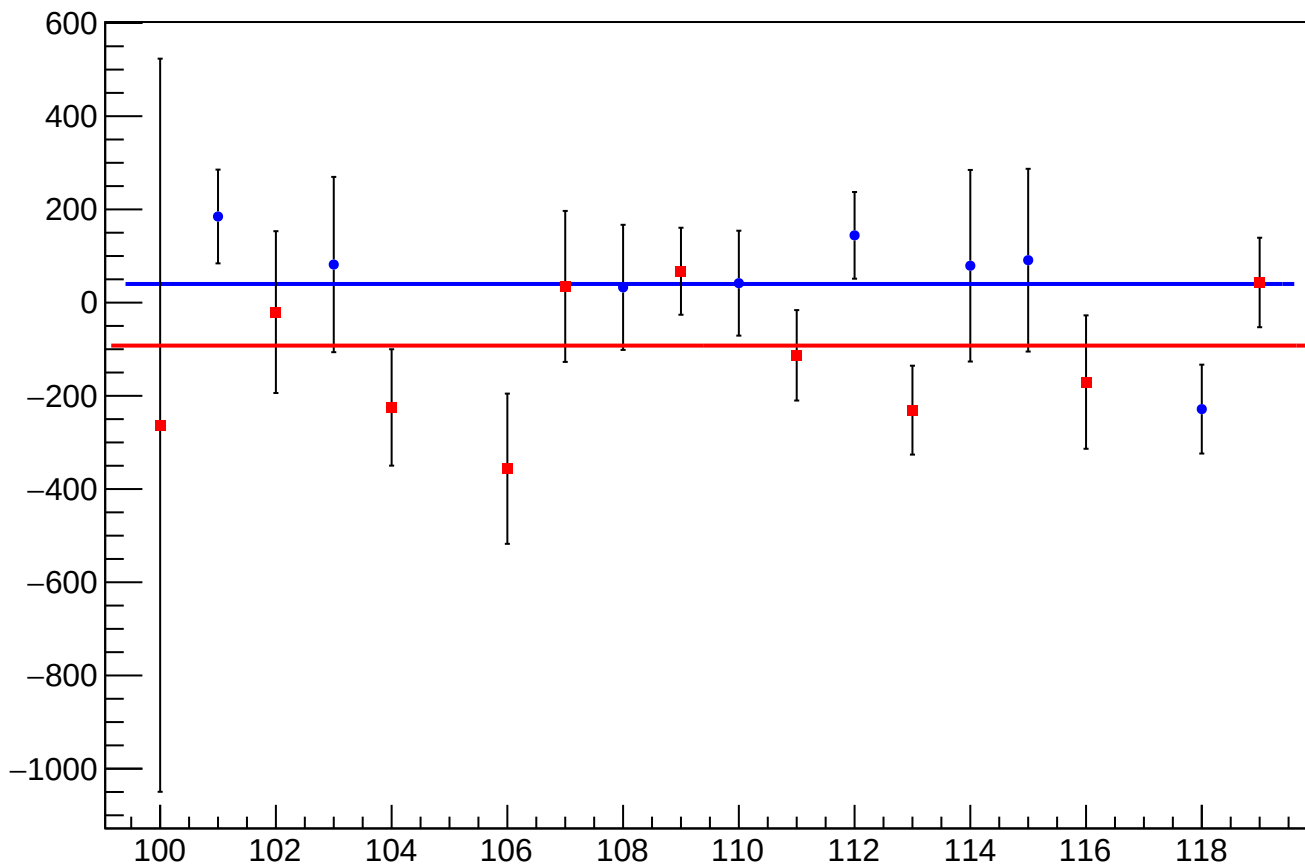
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 961.951+/-0.252  $\chi^2/\text{NDF}$ : 295079.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

cor\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 40.018+/-43.157  $\chi^2/\text{NDF}$ : 11.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -92.197+/-38.813  $\chi^2/\text{NDF}$ : 12.0/9

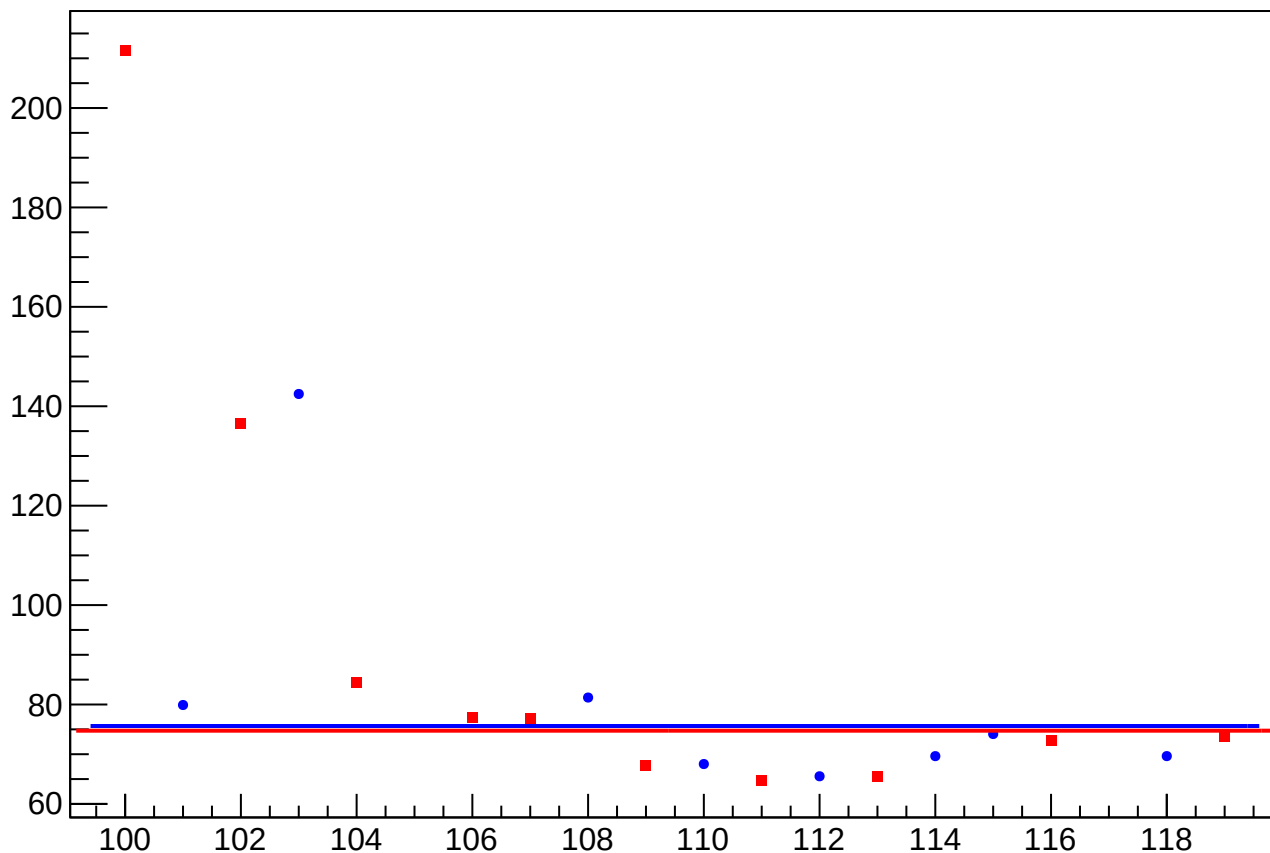
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -33.077+/-28.859  $\chi^2/\text{NDF}$ : 28.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 75.674 $\pm$ 0.031  $\chi^2$ /NDF: 302367.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 74.734 $\pm$ 0.027  $\chi^2$ /NDF: 378198.6/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

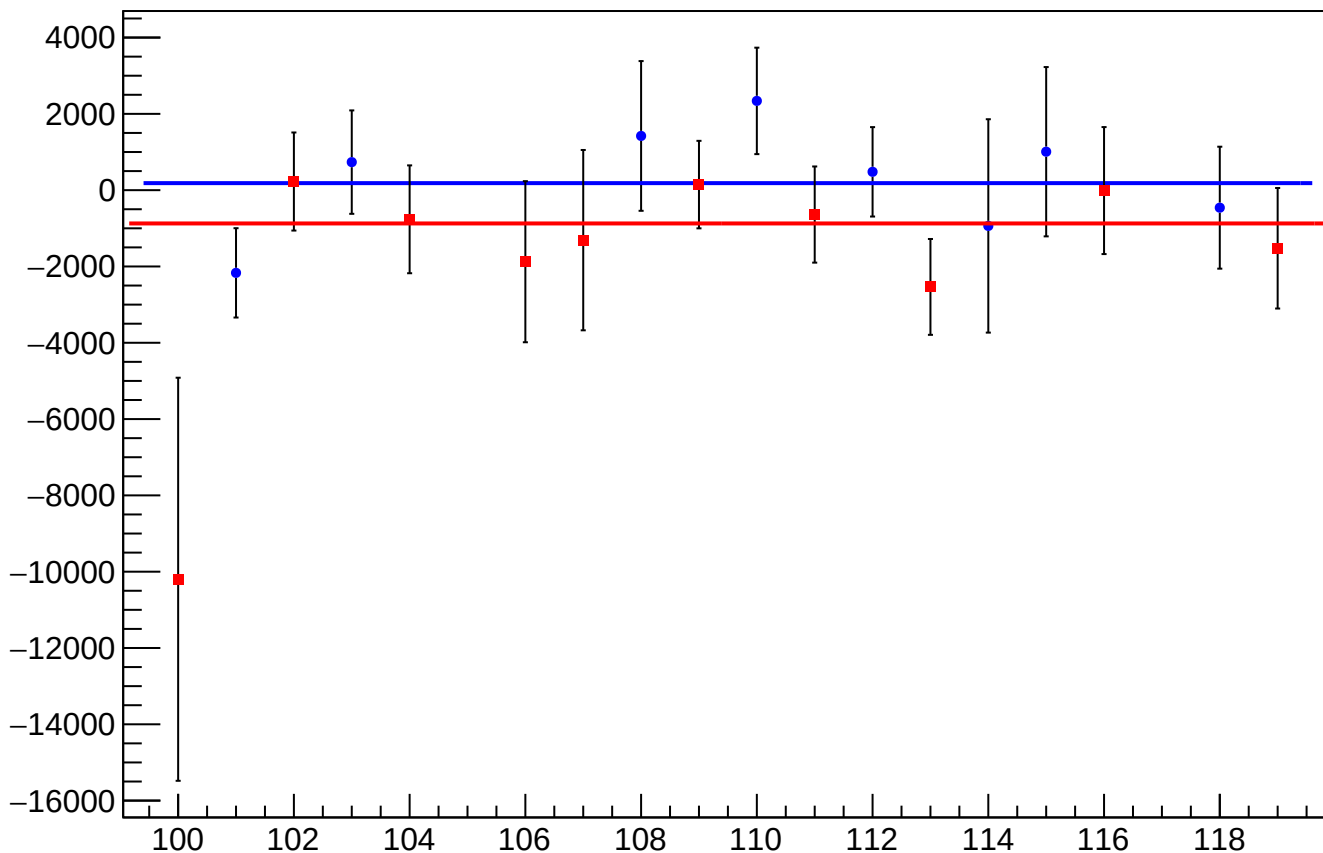
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 75.154 $\pm$ 0.020  $\chi^2$ /NDF: 681091.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_12345678\_avg\_cor\_correction\_mean vs Slug



Right In: 184.468+/-534.654  $\chi^2/\text{NDF}$ : 7.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -872.390+/-480.531  $\chi^2/\text{NDF}$ : 7.1/9

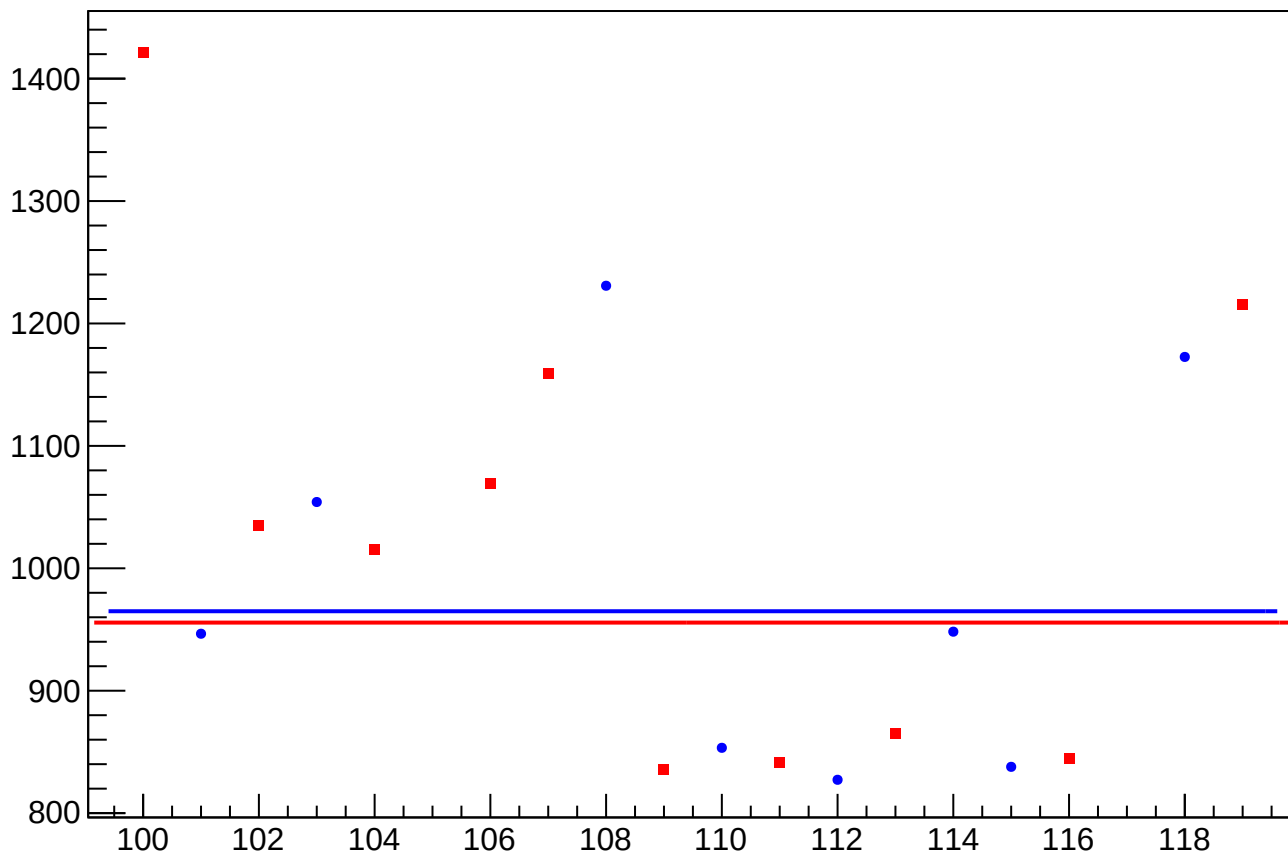
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -400.146+/-357.395  $\chi^2/\text{NDF}$ : 16.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_cor\_correction\_rms vs Slug



Right In: 964.930+/-0.378  $\chi^2/\text{NDF}$ : 126711.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 955.656+/-0.340  $\chi^2/\text{NDF}$ : 159204.3/9

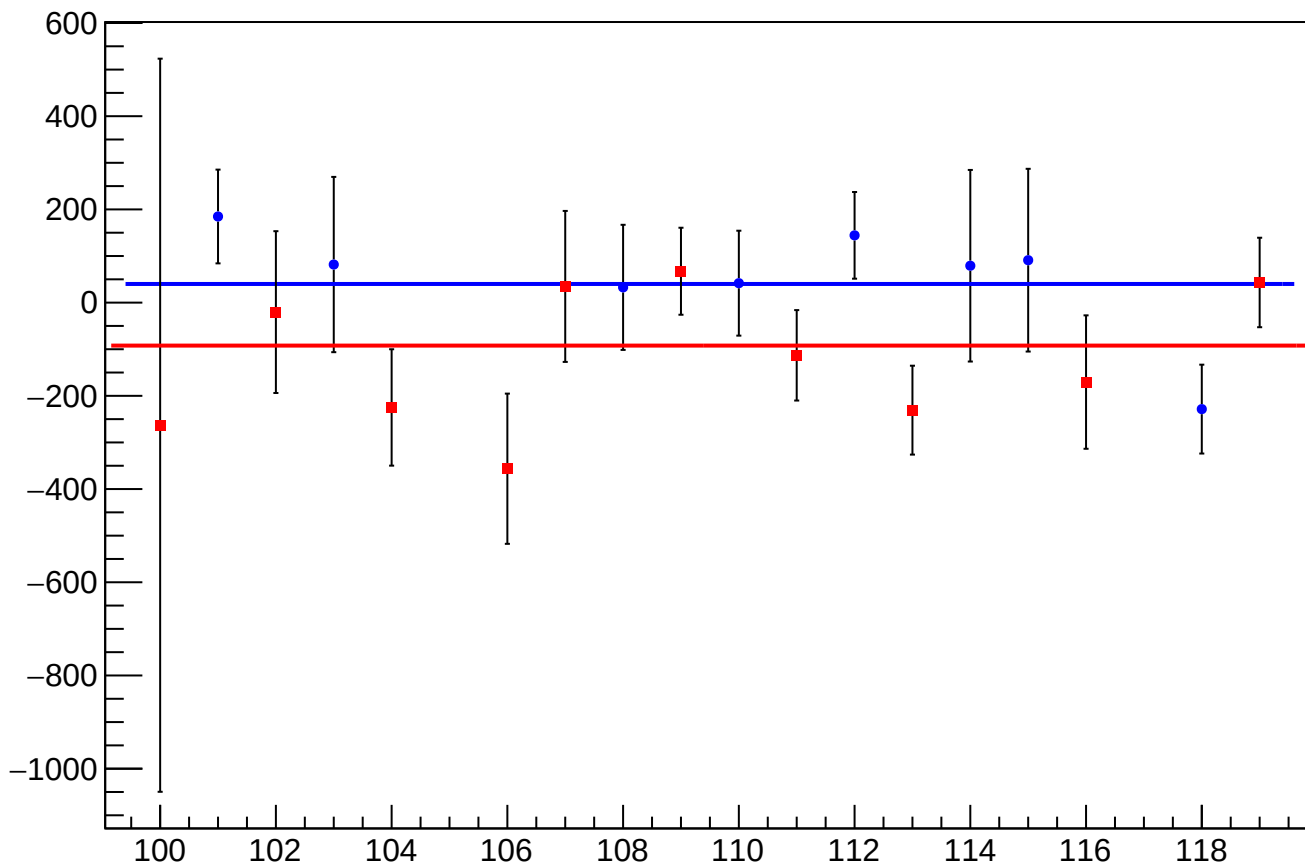
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 959.800+/-0.253  $\chi^2/\text{NDF}$ : 286249.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 40.018+/-43.157  $\chi^2/\text{NDF}$ : 11.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -92.197+/-38.813  $\chi^2/\text{NDF}$ : 12.0/9

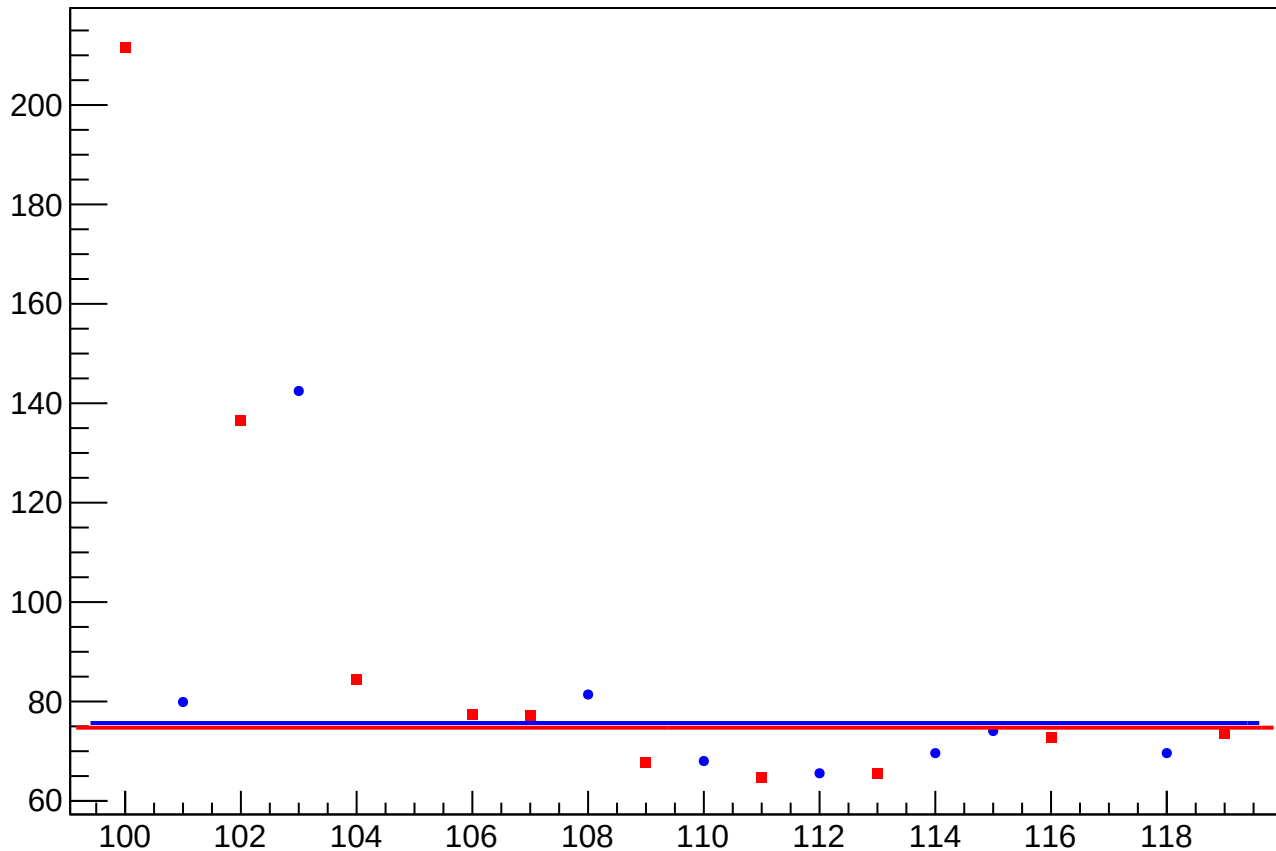
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -33.077+/-28.859  $\chi^2/\text{NDF}$ : 28.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 75.674 $\pm$ 0.031  $\chi^2$ /NDF: 302367.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 74.734 $\pm$ 0.027  $\chi^2$ /NDF: 378198.6/9

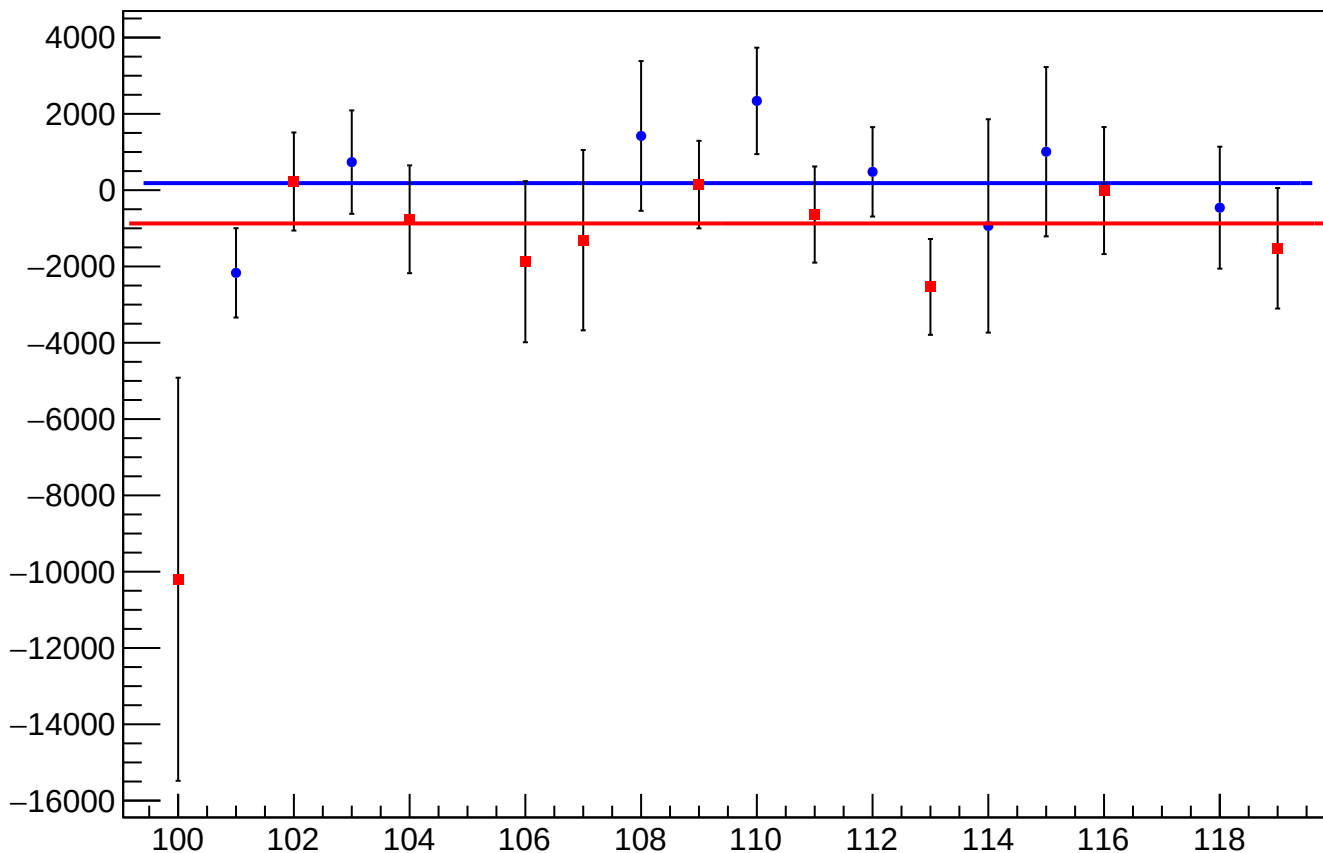
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 75.154 $\pm$ 0.020  $\chi^2$ /NDF: 681091.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 184.468+/-534.654  $\chi^2/\text{NDF}$ : 7.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -872.390+/-480.531  $\chi^2/\text{NDF}$ : 7.1/9

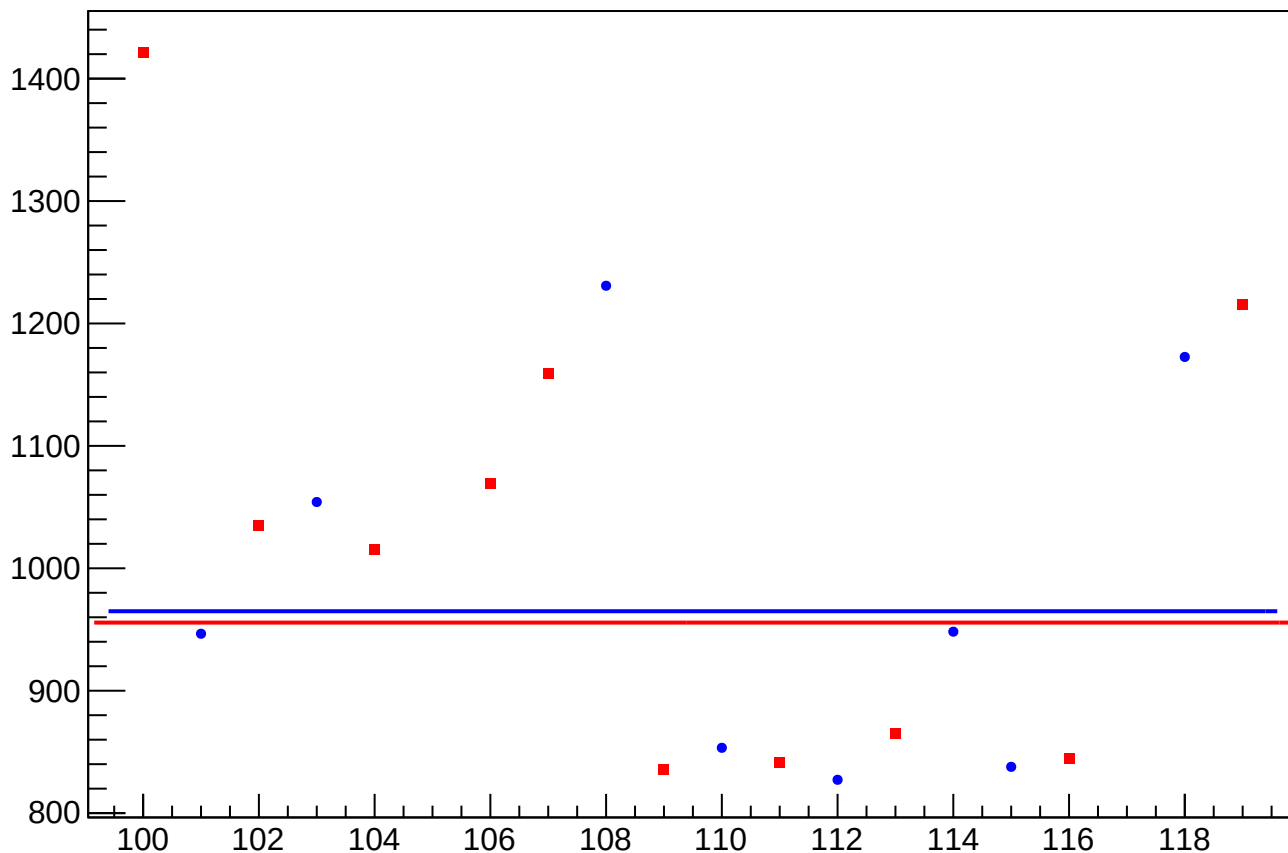
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -400.146+/-357.395  $\chi^2/\text{NDF}$ : 16.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 964.930+/-0.378  $\chi^2/\text{NDF}$ : 126711.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 955.656+/-0.340  $\chi^2/\text{NDF}$ : 159204.3/9

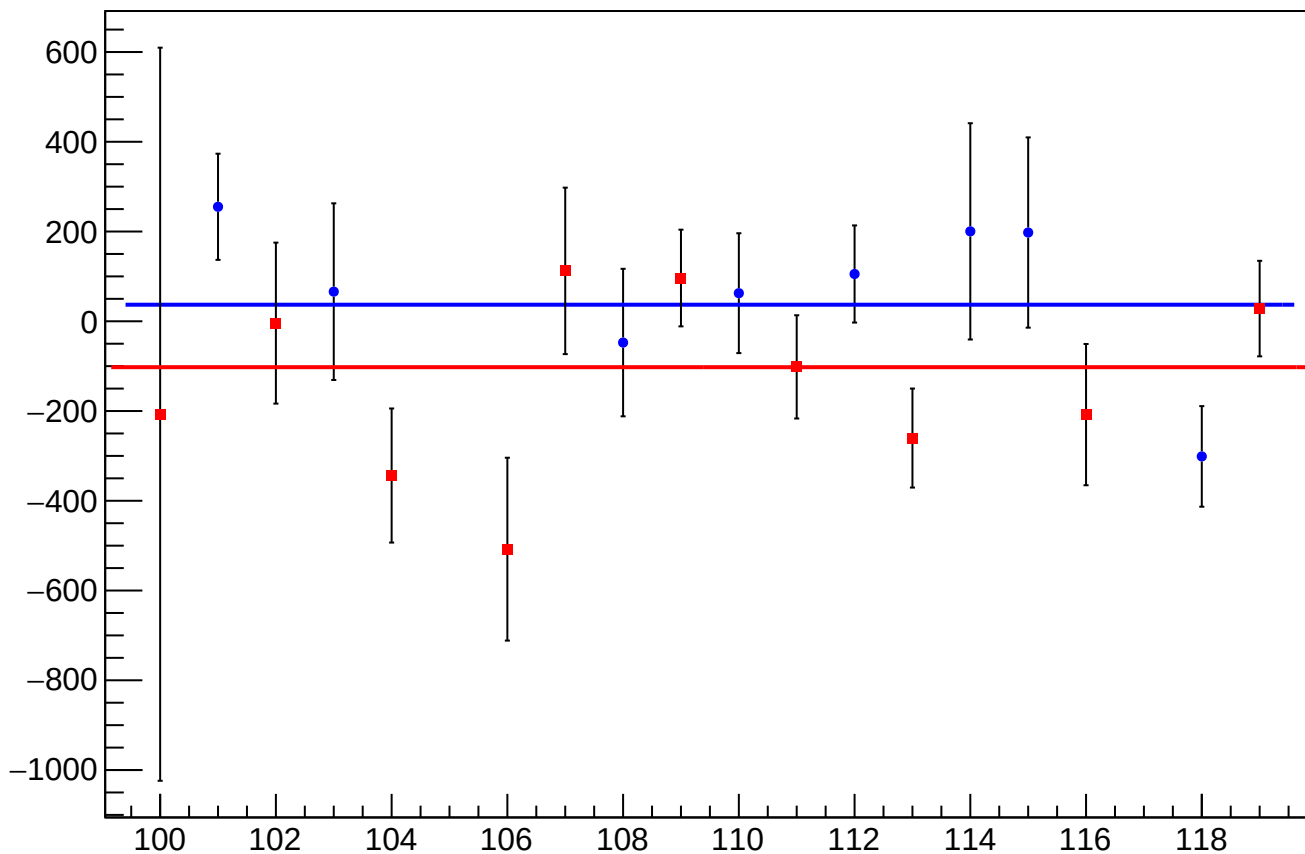
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 959.800+/-0.253  $\chi^2/\text{NDF}$ : 286249.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 36.908+/-50.327  $\chi^2/\text{NDF}$ : 14.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -102.312+/-44.586  $\chi^2/\text{NDF}$ : 15.6/9

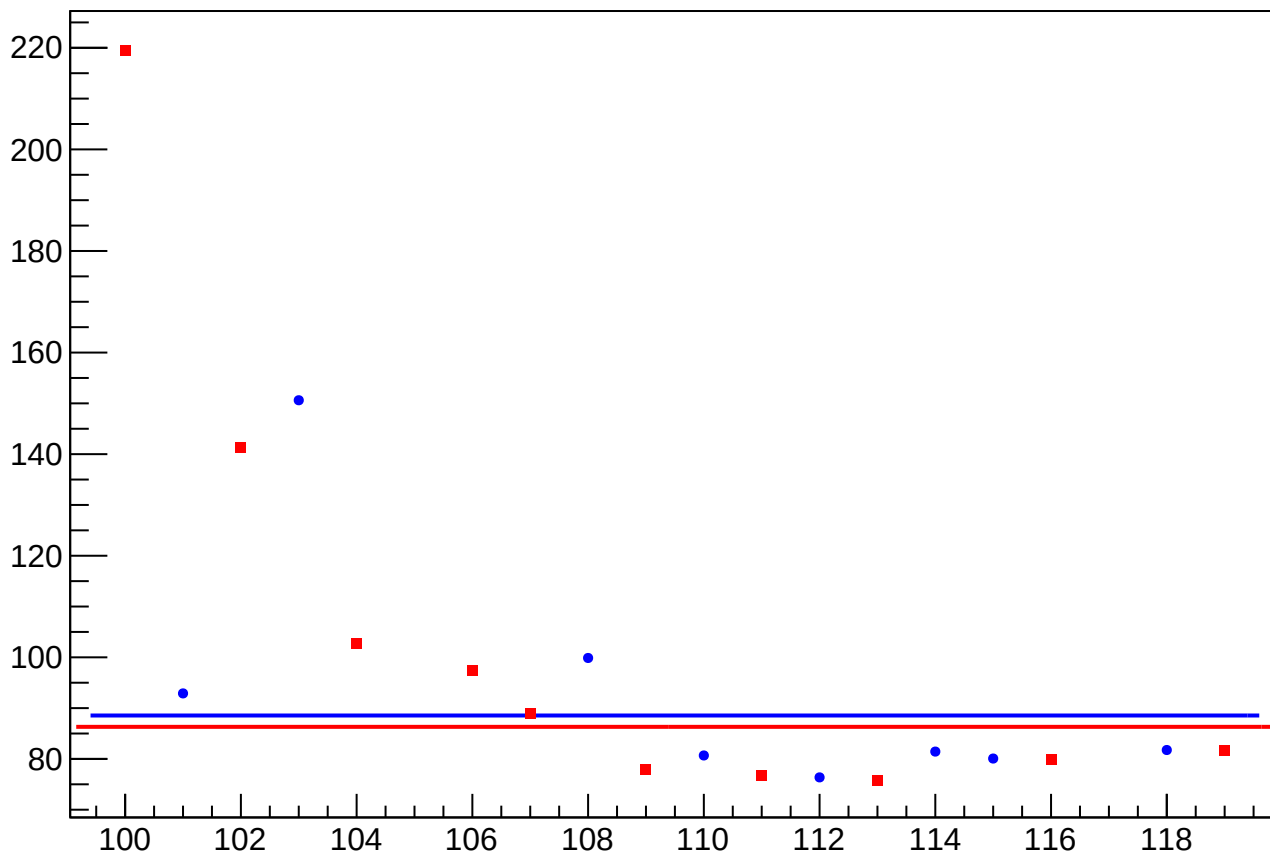
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -41.091+/-33.373  $\chi^2/\text{NDF}$ : 34.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 88.546+/-0.036  $\chi^2/\text{NDF}$ : 255663.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 86.315+/-0.032  $\chi^2/\text{NDF}$ : 323028.2/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

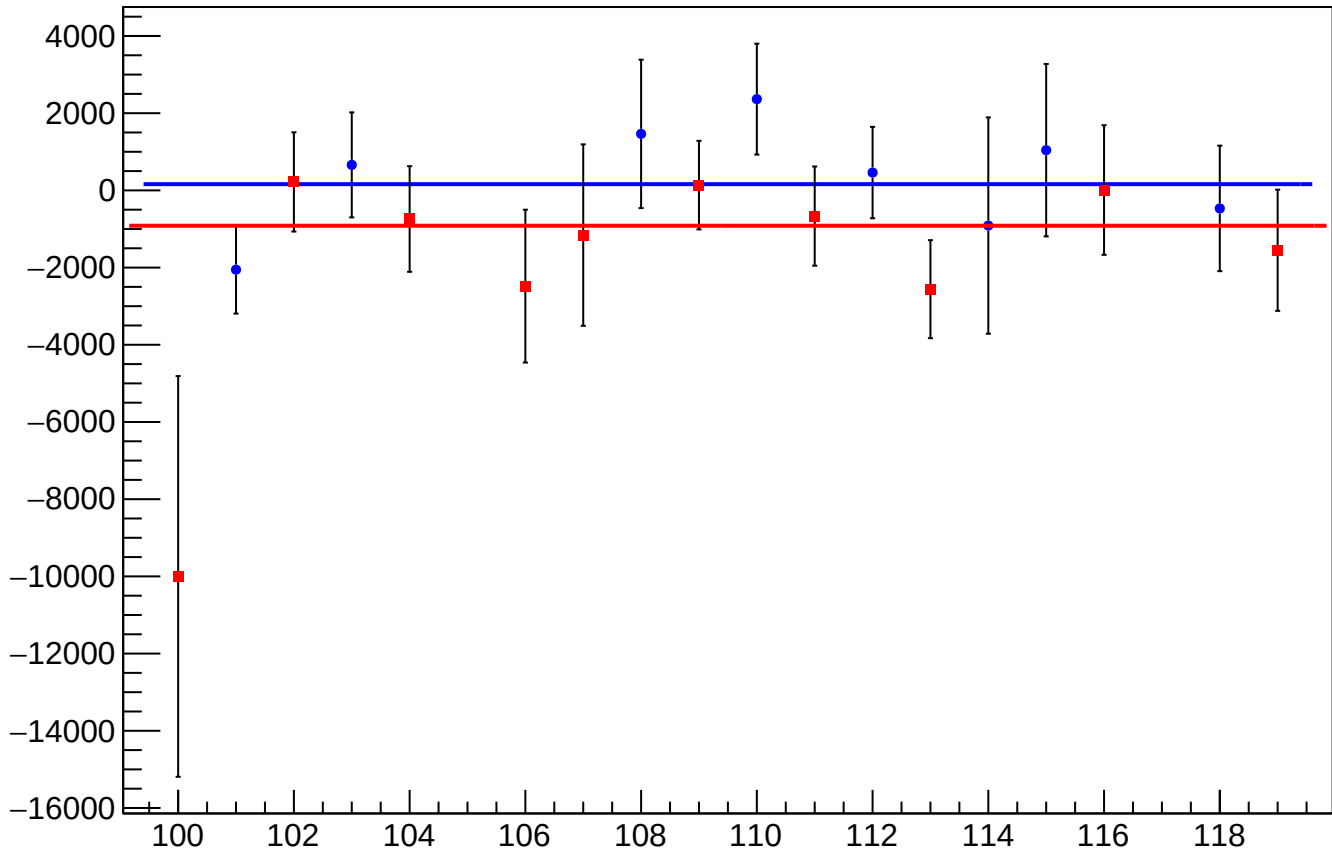
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 87.296+/-0.024  $\chi^2/\text{NDF}$ : 580895.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_12345678\_avg\_dit\_correction\_mean vs Slug



Right In: 161.203 $\pm$ 535.648  $\chi^2$ /NDF: 7.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -915.890 $\pm$ 478.995  $\chi^2$ /NDF: 7.5/9

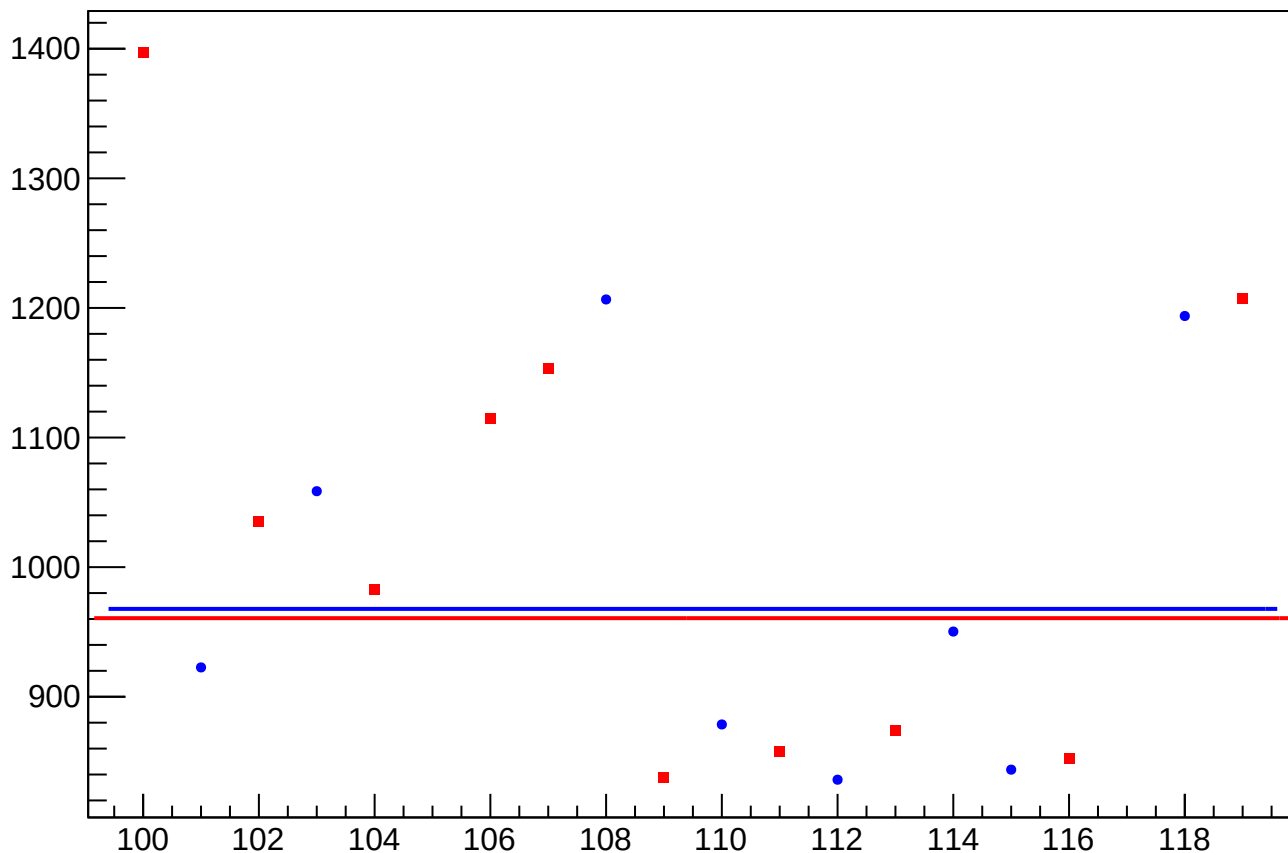
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -437.297 $\pm$ 357.056  $\chi^2$ /NDF: 17.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_dit\_correction\_rms vs Slug



Right In: 967.803+/-0.379  $\chi^2/\text{NDF}$ : 120297.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 960.631+/-0.339  $\chi^2/\text{NDF}$ : 149628.6/9

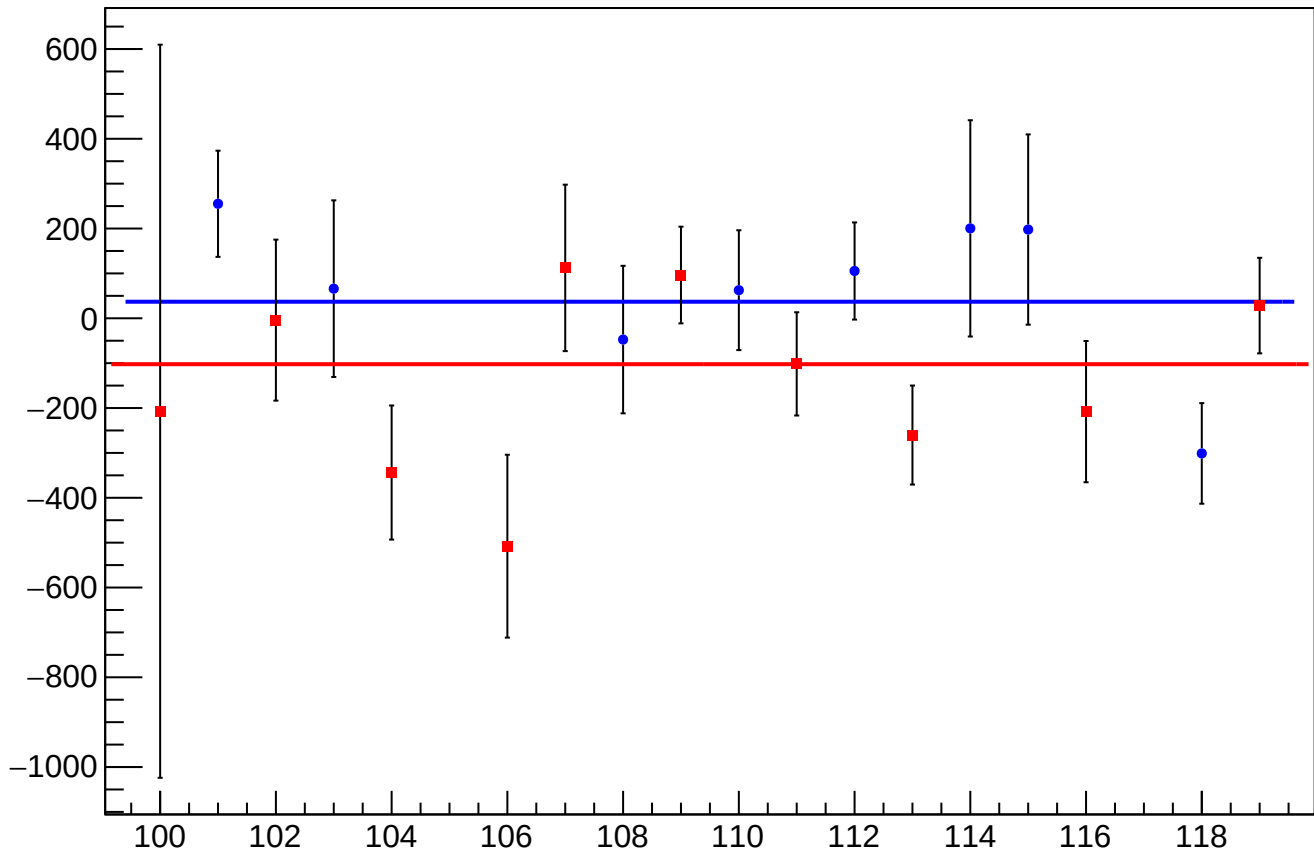
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 963.817+/-0.252  $\chi^2/\text{NDF}$ : 270125.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 36.906+/-50.326  $\chi^2/\text{NDF}$ : 14.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -102.310+/-44.586  $\chi^2/\text{NDF}$ : 15.6/9

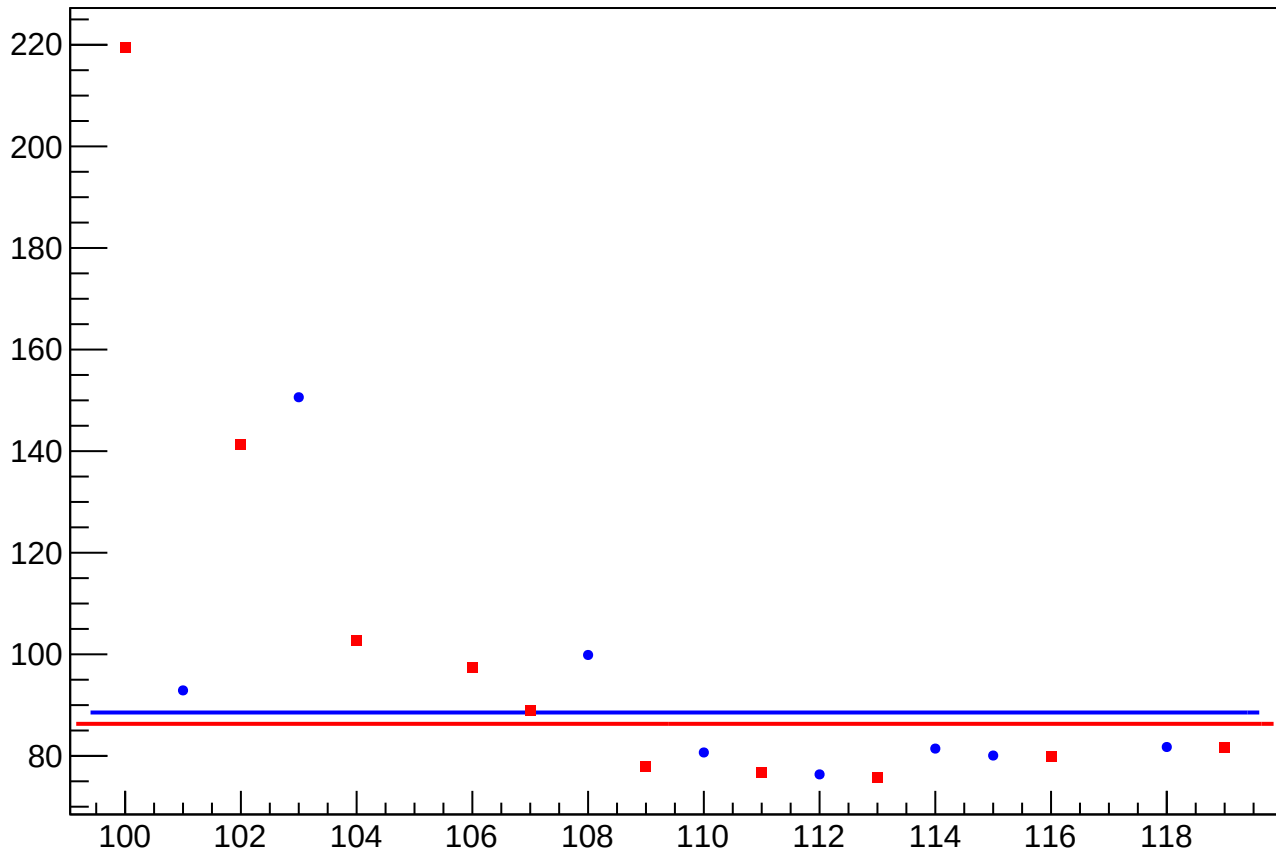
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -41.091+/-33.373  $\chi^2/\text{NDF}$ : 34.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 88.546 $\pm$ 0.036  $\chi^2$ /NDF: 255668.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 86.314 $\pm$ 0.032  $\chi^2$ /NDF: 323036.8/9

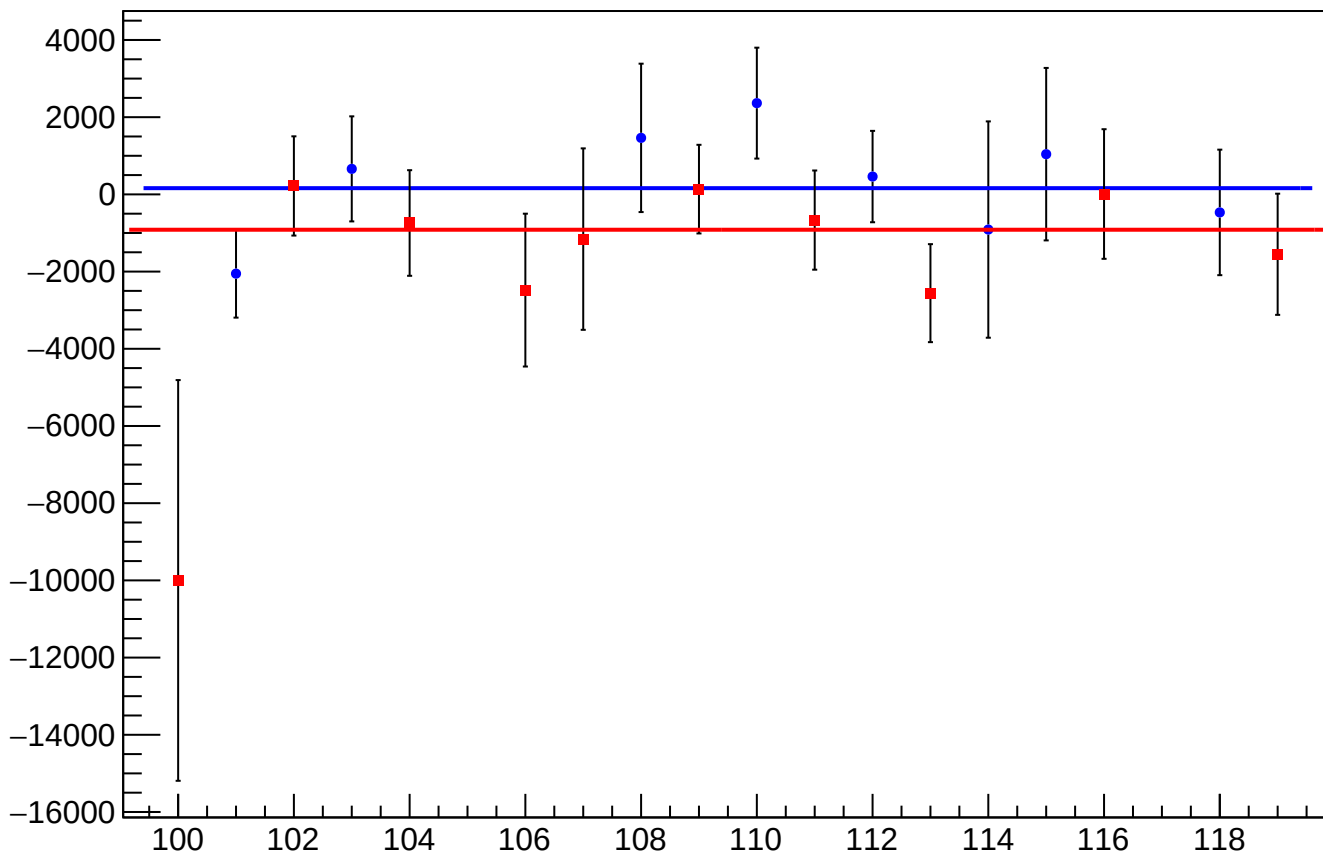
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 87.296 $\pm$ 0.024  $\chi^2$ /NDF: 580908.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 161.204+/-535.646  $\chi^2/\text{NDF}$ : 7.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -915.888+/-478.994  $\chi^2/\text{NDF}$ : 7.5/9

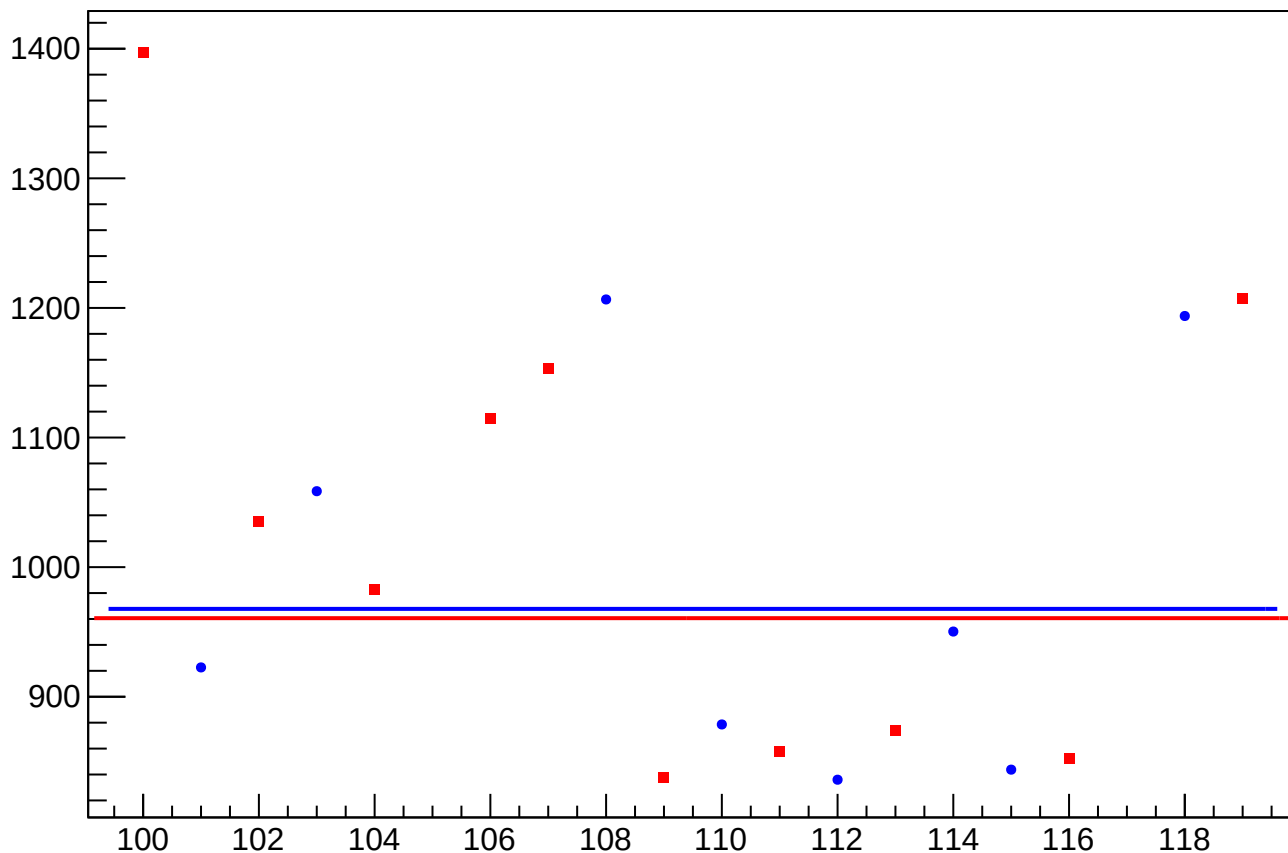
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -437.295+/-357.055  $\chi^2/\text{NDF}$ : 17.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 967.800 $\pm$ 0.379  $\chi^2$ /NDF: 120299.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 960.628 $\pm$ 0.339  $\chi^2$ /NDF: 149630.9/9

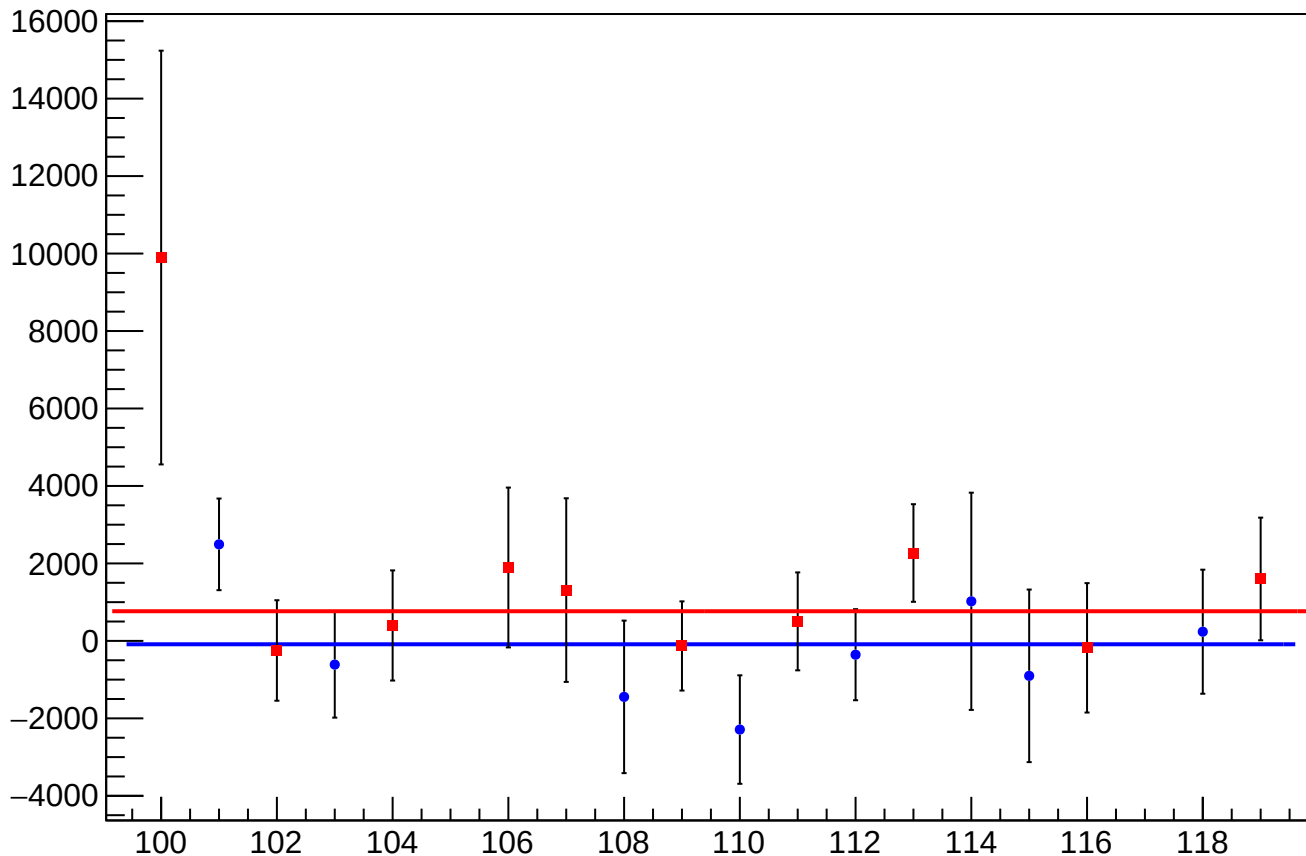
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 963.814 $\pm$ 0.252  $\chi^2$ /NDF: 270129.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_12345678\_avg\_mean vs Slug



Right In:  $-87.292 \pm 537.739$   $\chi^2/\text{NDF}$ : 8.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $765.597 \pm 482.010$   $\chi^2/\text{NDF}$ : 6.6/9

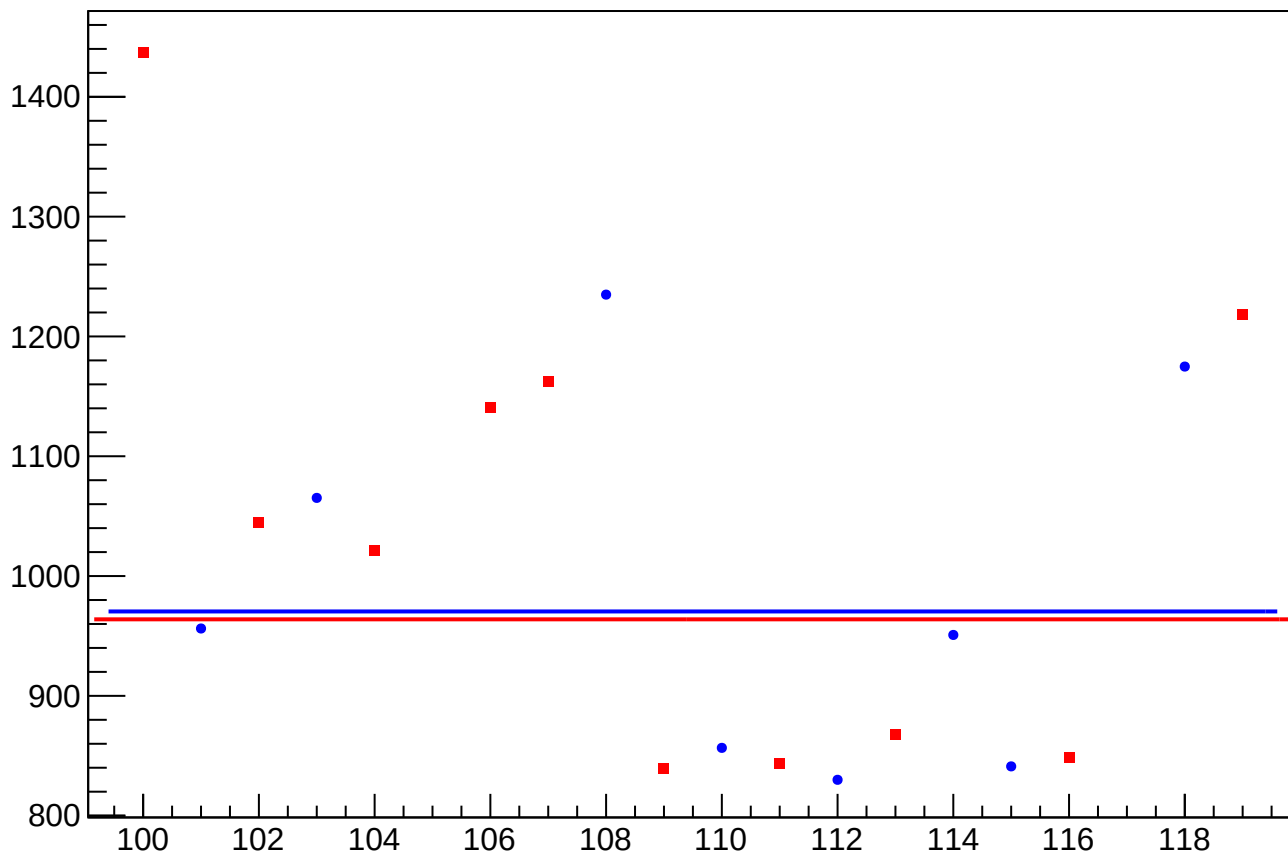
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $385.624 \pm 358.923$   $\chi^2/\text{NDF}$ : 16.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 970.454+/-0.380  $\chi^2/\text{NDF}$ : 127187.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 963.873+/-0.341  $\chi^2/\text{NDF}$ : 169728.9/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

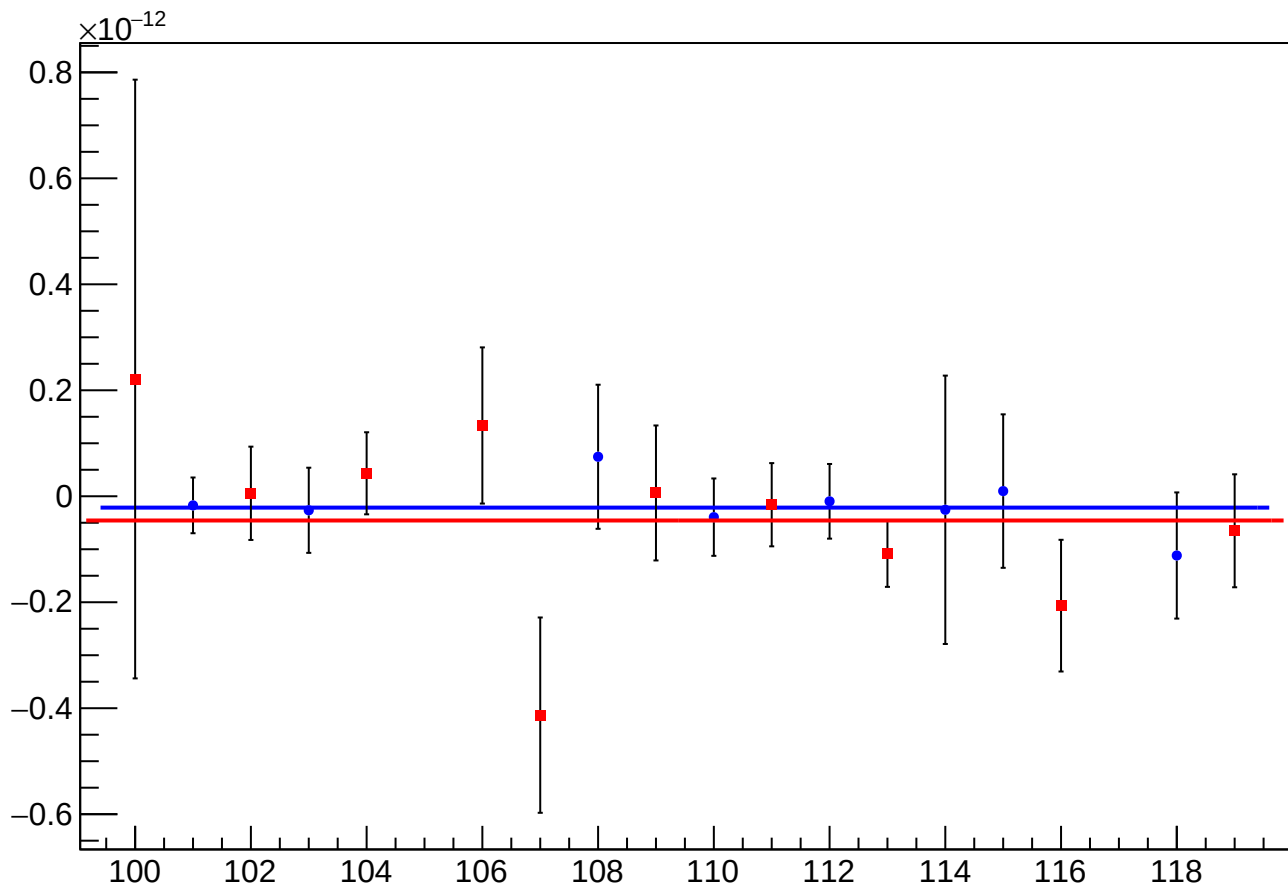
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 966.805+/-0.254  $\chi^2/\text{NDF}$ : 297082.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_12345678\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.3/9

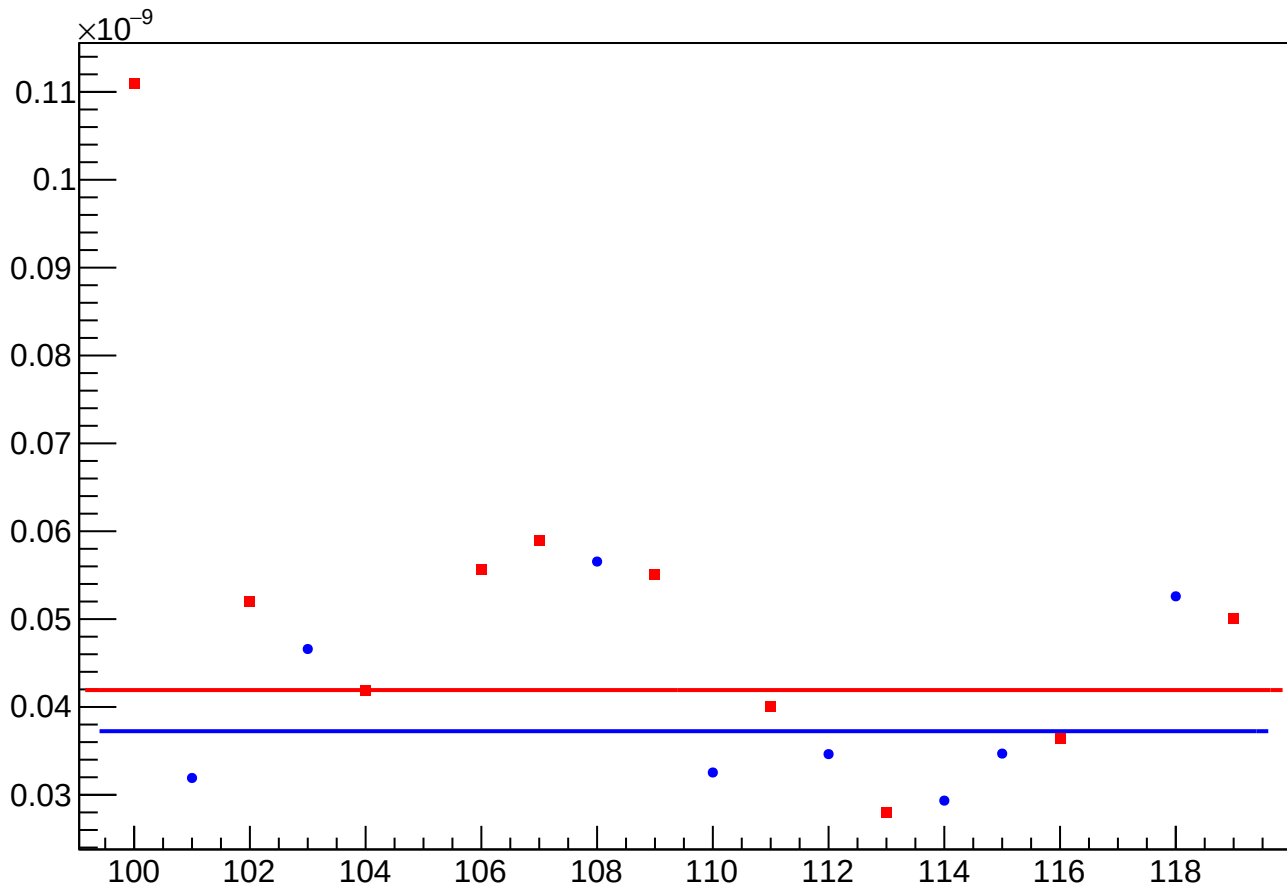
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.9/17

- 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  $\chi^2/\text{NDF}$ : 134788.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 226012.9/9

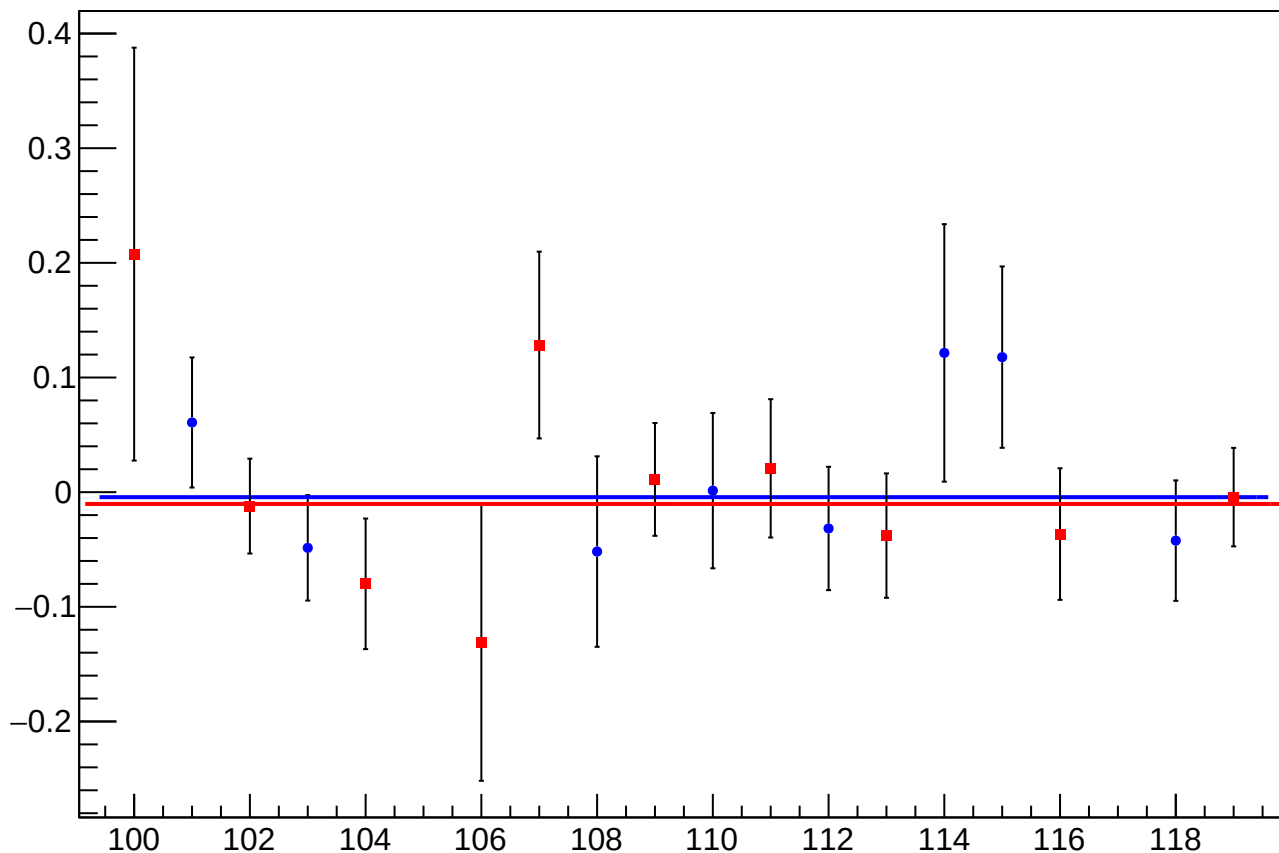
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 383714.4/17

- 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: -0.004 $\pm$ 0.022  $\chi^2$ /NDF: 7.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.010 $\pm$ 0.018  $\chi^2$ /NDF: 7.8/9

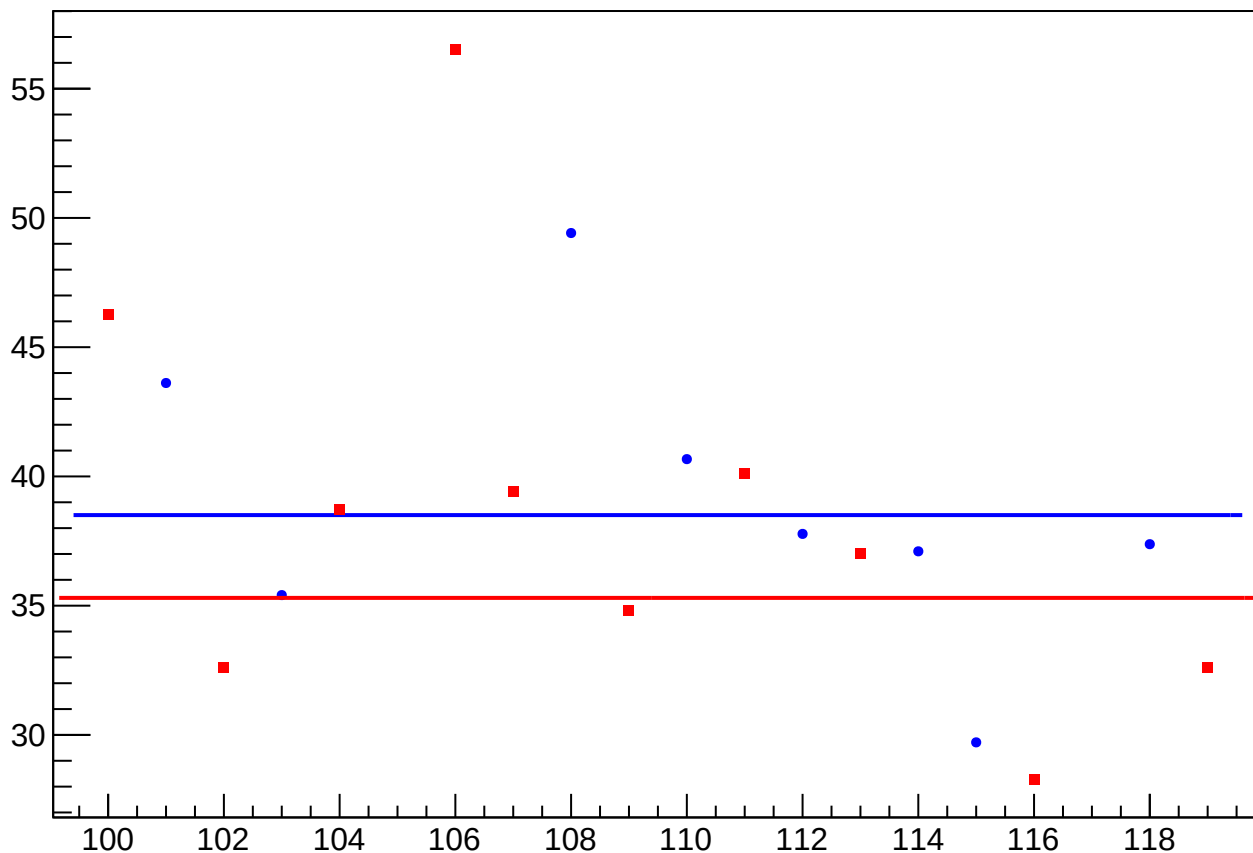
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.008 $\pm$ 0.014  $\chi^2$ /NDF: 14.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 38.504+/-0.015  $\chi^2/\text{NDF}$ : 88135.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.301+/-0.013  $\chi^2/\text{NDF}$ : 142844.1/9

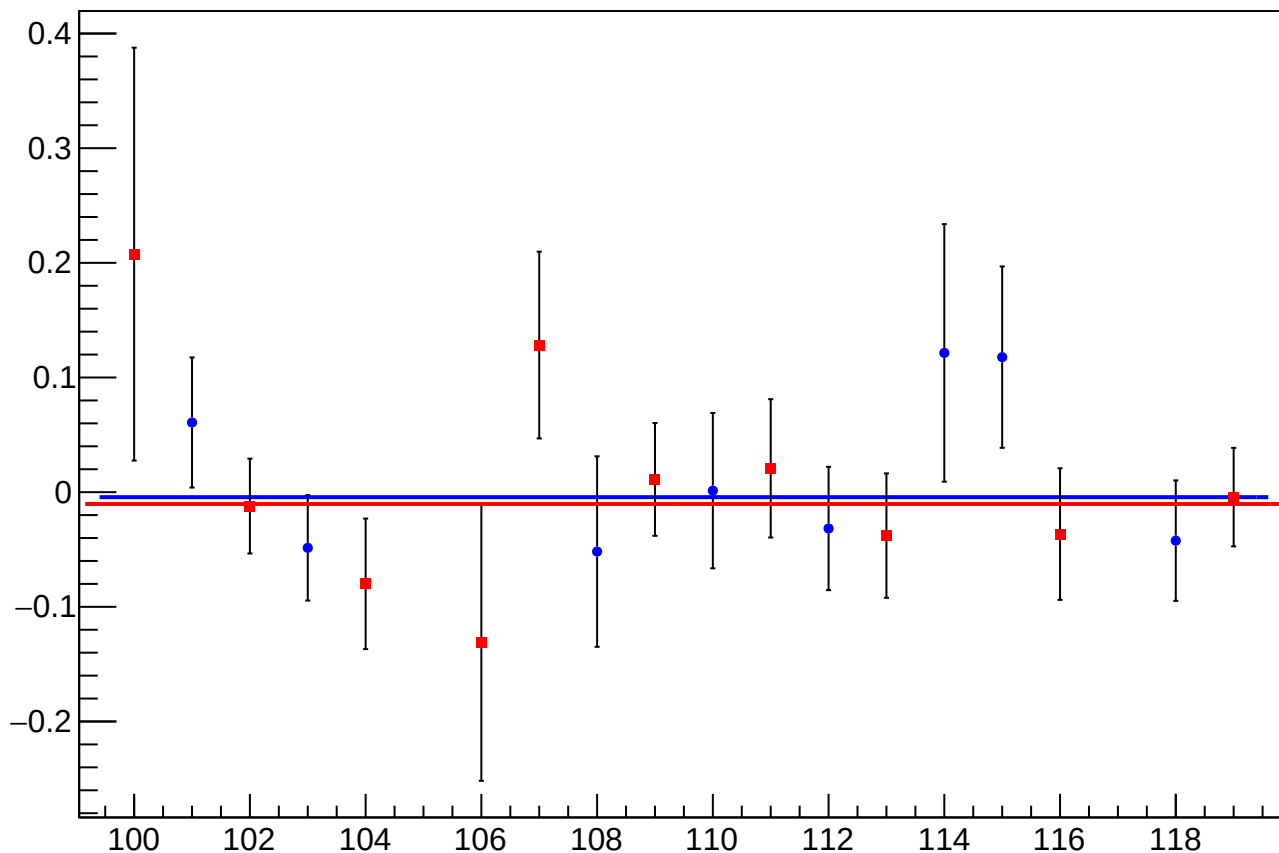
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.614+/-0.010  $\chi^2/\text{NDF}$ : 256335.8/17

- 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: -0.004+/-0.022  $\chi^2/\text{NDF}$ : 7.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.010+/-0.018  $\chi^2/\text{NDF}$ : 7.8/9

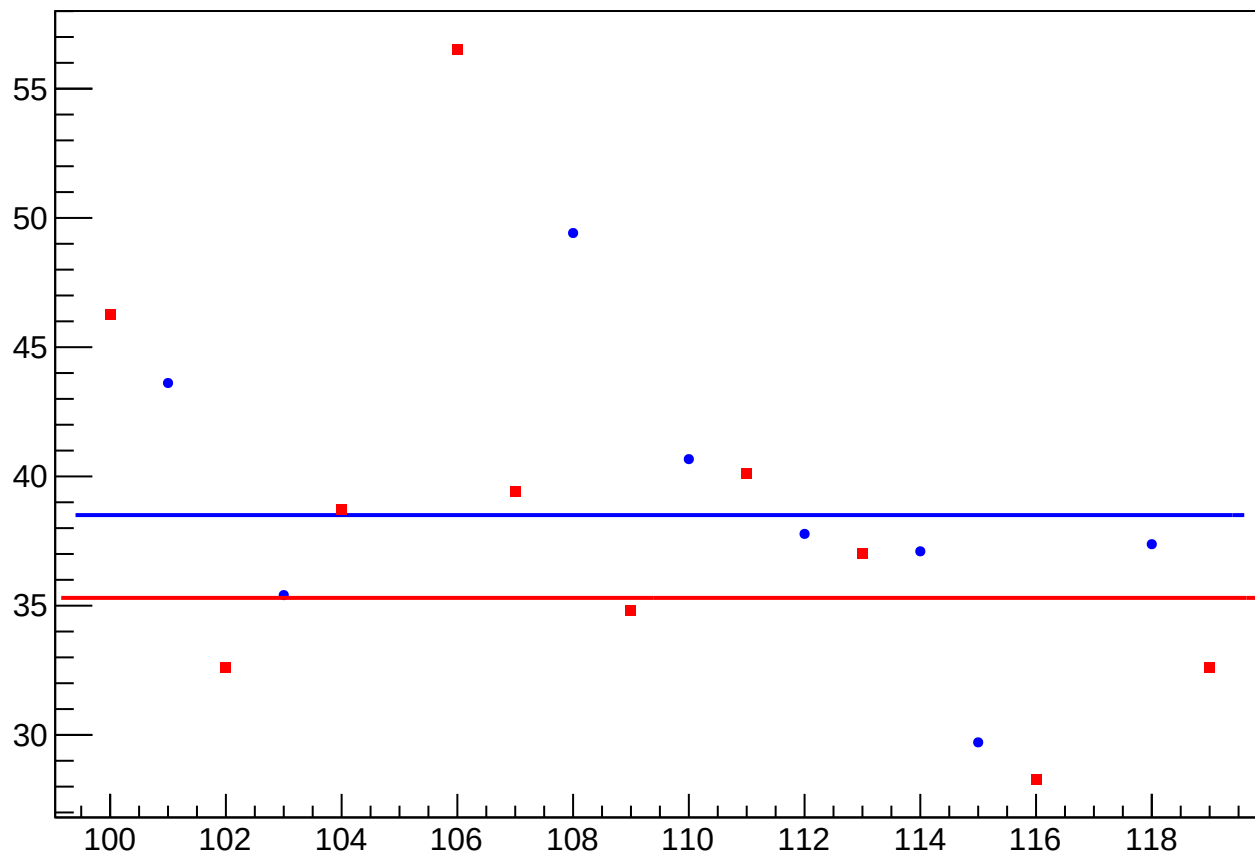
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.008+/-0.014  $\chi^2/\text{NDF}$ : 14.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 38.504+/-0.015  $\chi^2/\text{NDF}$ : 88135.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.301+/-0.013  $\chi^2/\text{NDF}$ : 142844.1/9

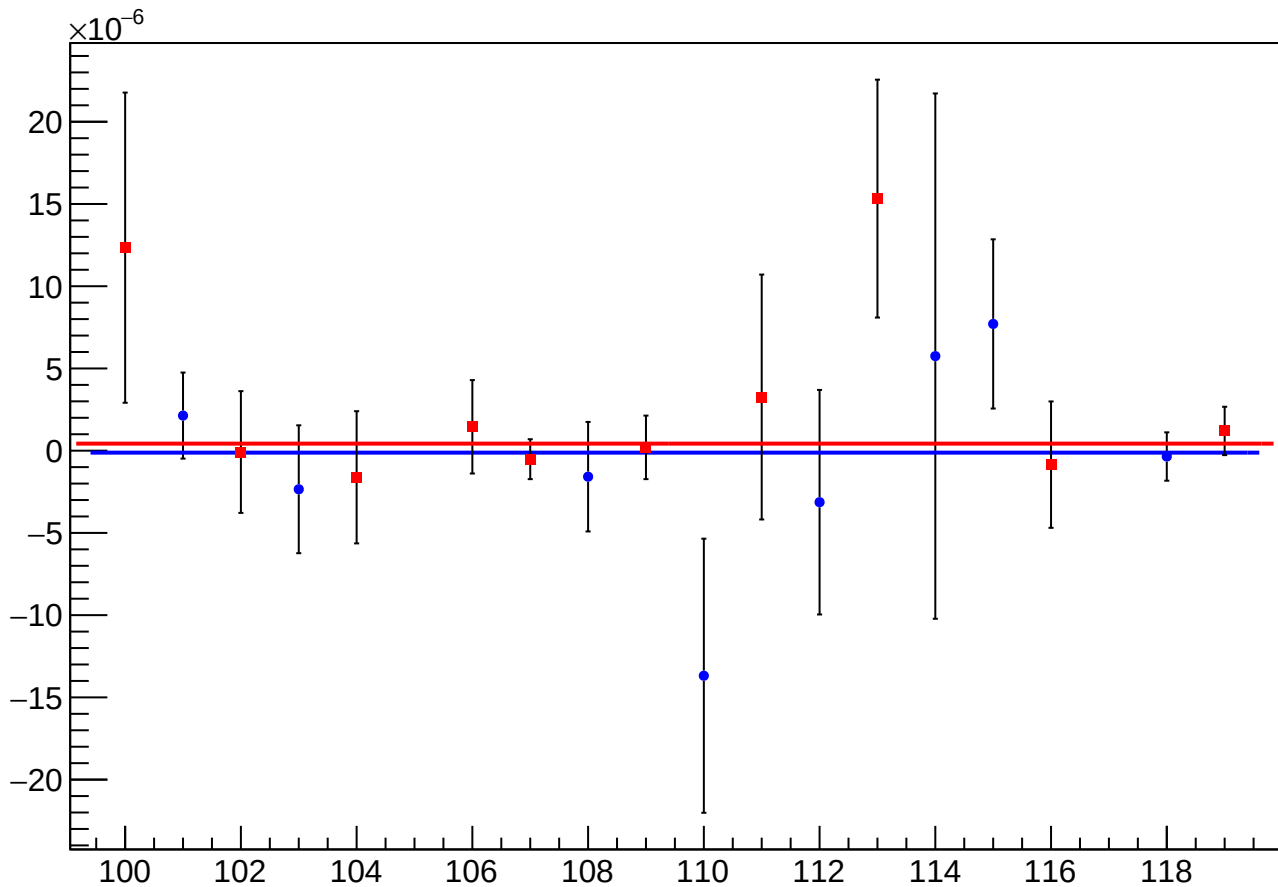
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.614+/-0.010  $\chi^2/\text{NDF}$ : 256335.8/17

- 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  $\chi^2/\text{NDF}$ : 6.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.4/9

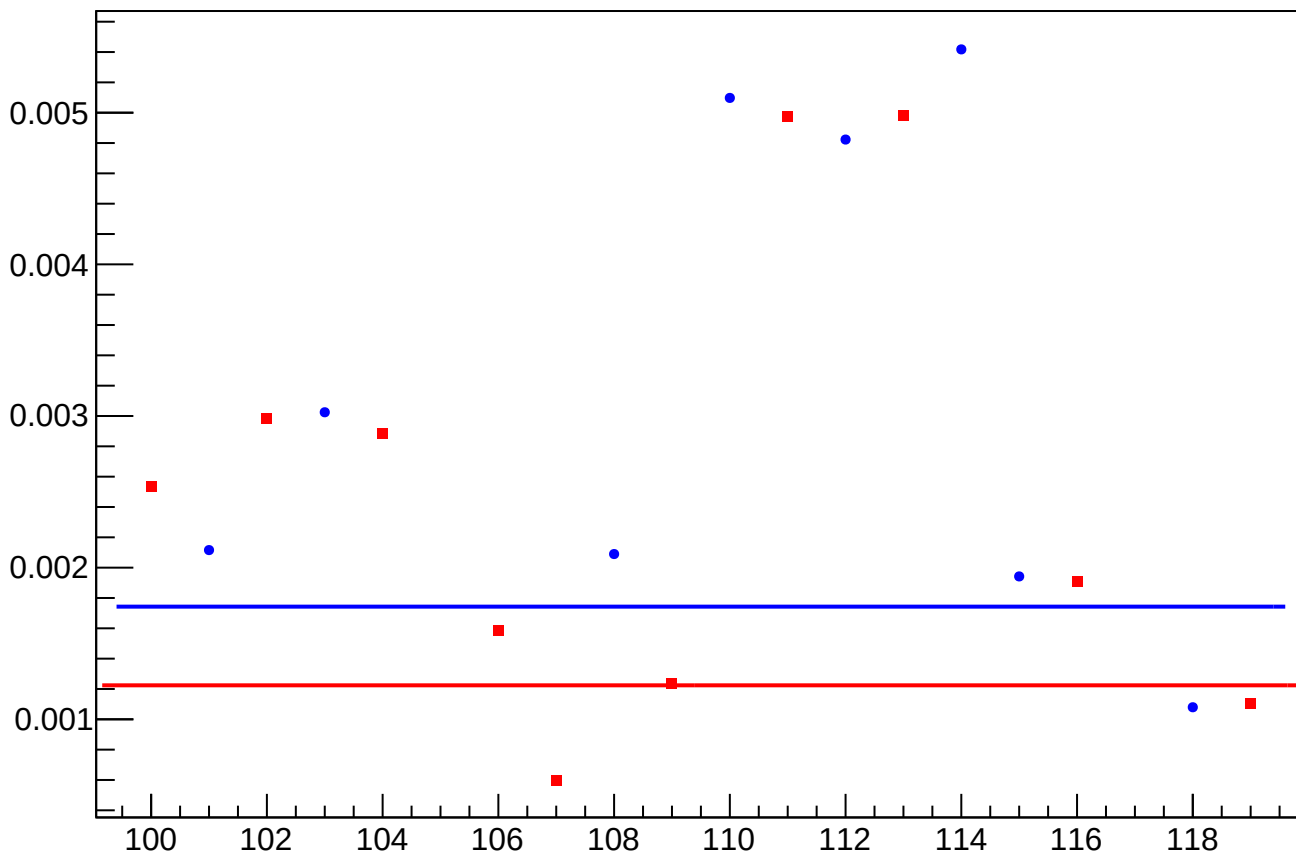
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.2/17

- 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: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1527048.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2524997.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

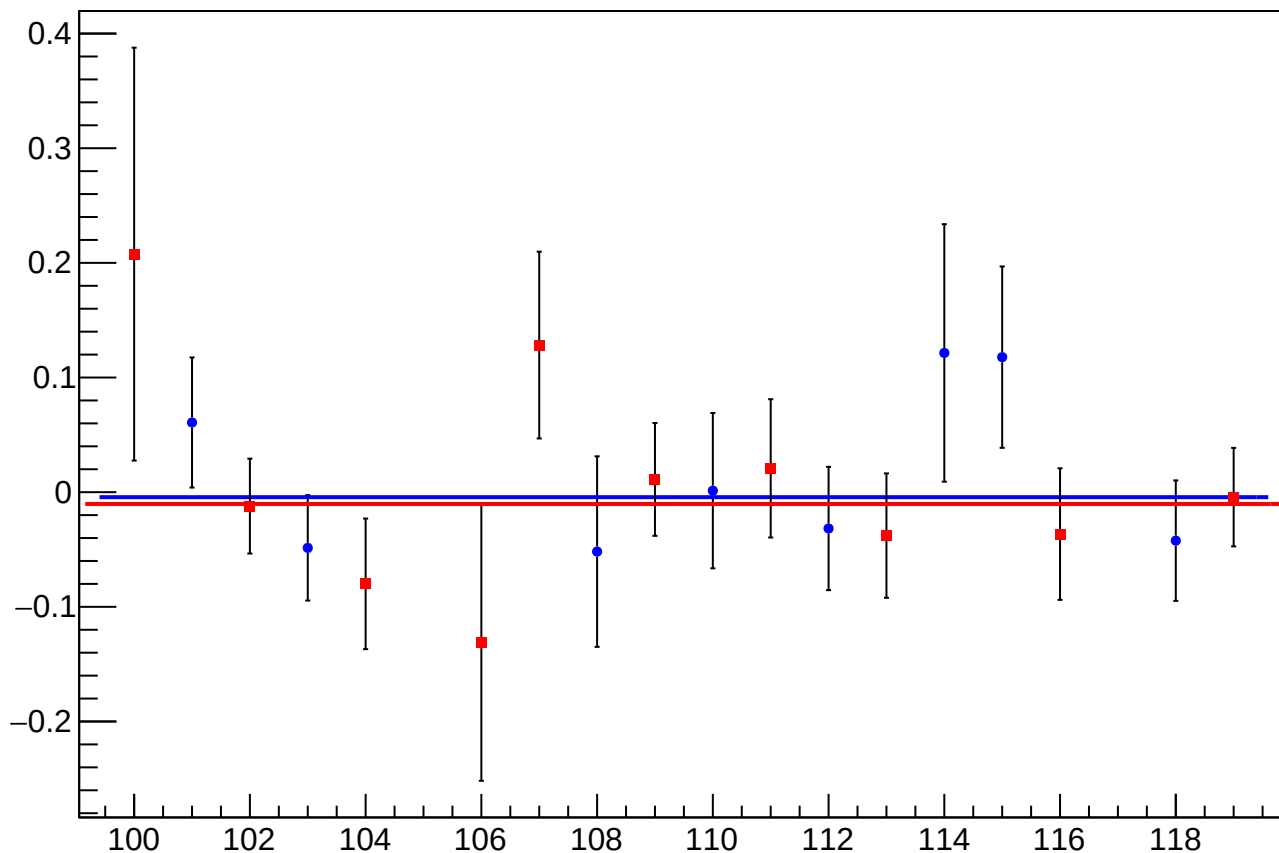
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4360187.0/17

- 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: -0.004 $\pm$ 0.022  $\chi^2$ /NDF: 7.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.010 $\pm$ 0.018  $\chi^2$ /NDF: 7.8/9

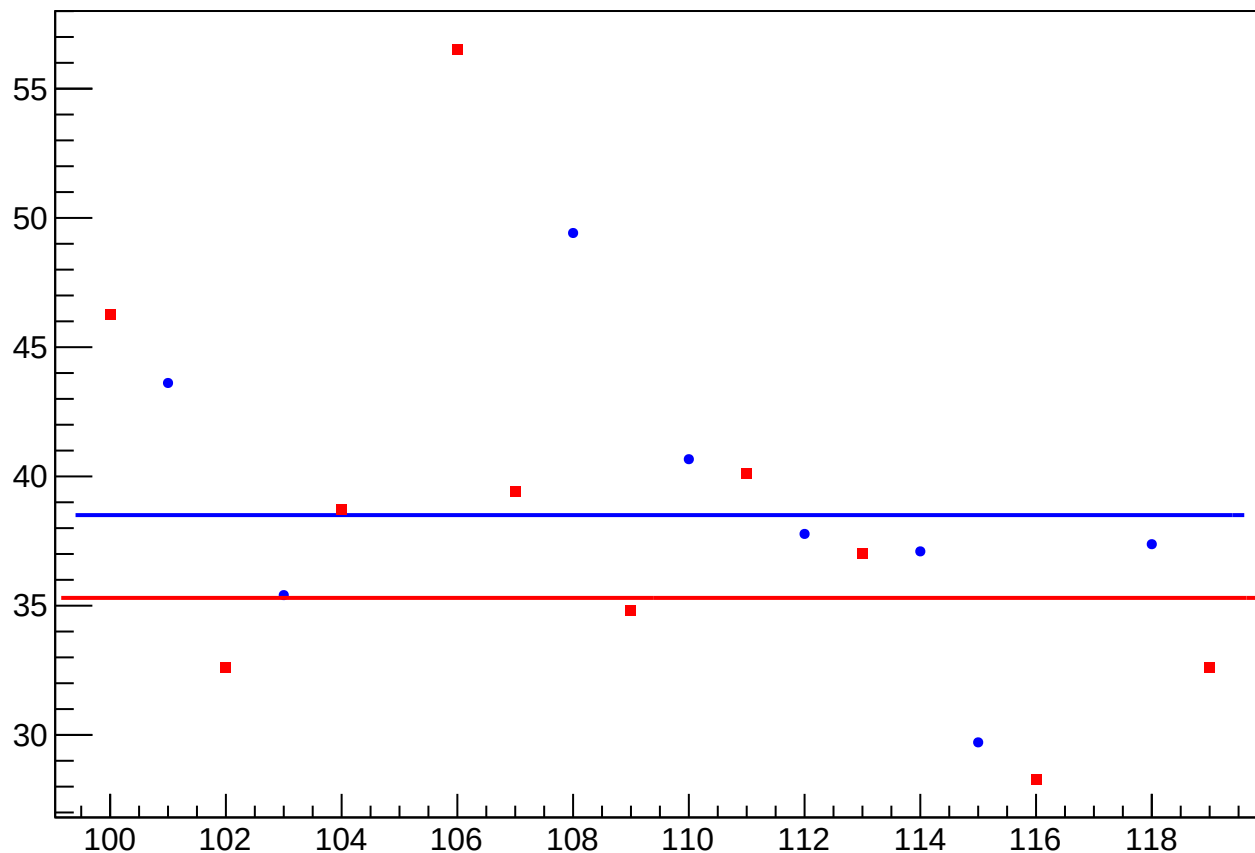
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.008 $\pm$ 0.014  $\chi^2$ /NDF: 14.8/17

- 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: 38.504+/-0.015  $\chi^2/\text{NDF}$ : 88142.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.301+/-0.013  $\chi^2/\text{NDF}$ : 142834.9/9

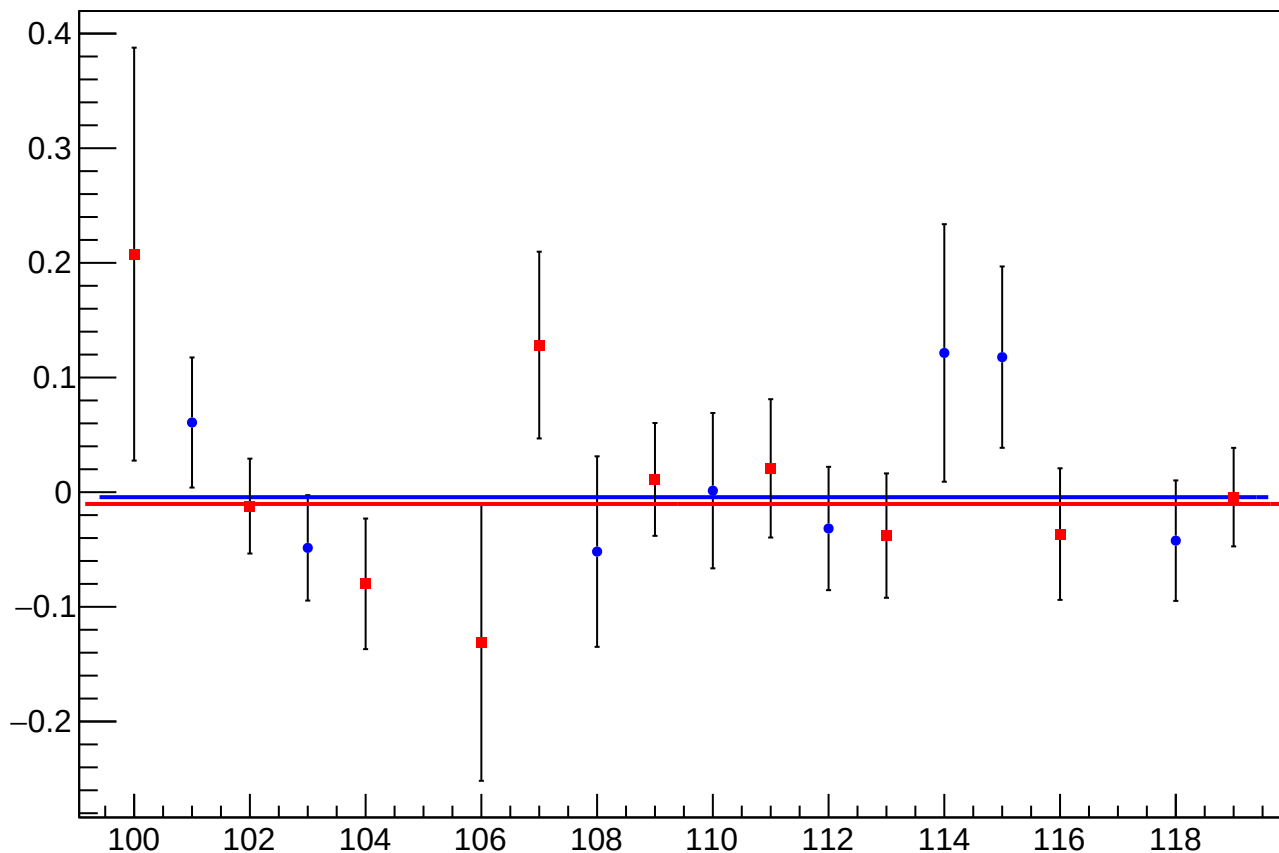
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.613+/-0.010  $\chi^2/\text{NDF}$ : 256332.5/17

- 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: -0.004 $\pm$ 0.022  $\chi^2$ /NDF: 7.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.010 $\pm$ 0.018  $\chi^2$ /NDF: 7.8/9

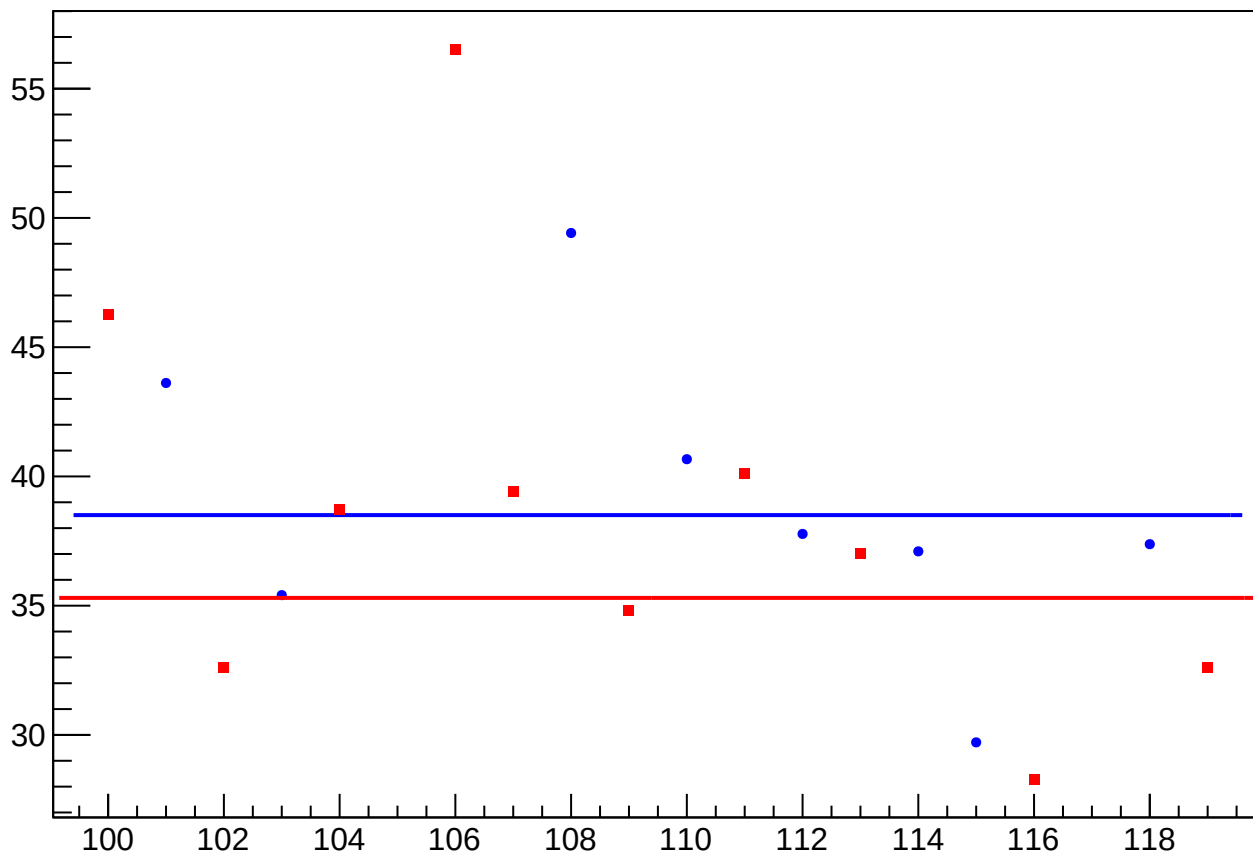
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.008 $\pm$ 0.014  $\chi^2$ /NDF: 14.8/17

- 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: 38.504+/-0.015  $\chi^2/\text{NDF}$ : 88142.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.301+/-0.013  $\chi^2/\text{NDF}$ : 142834.9/9

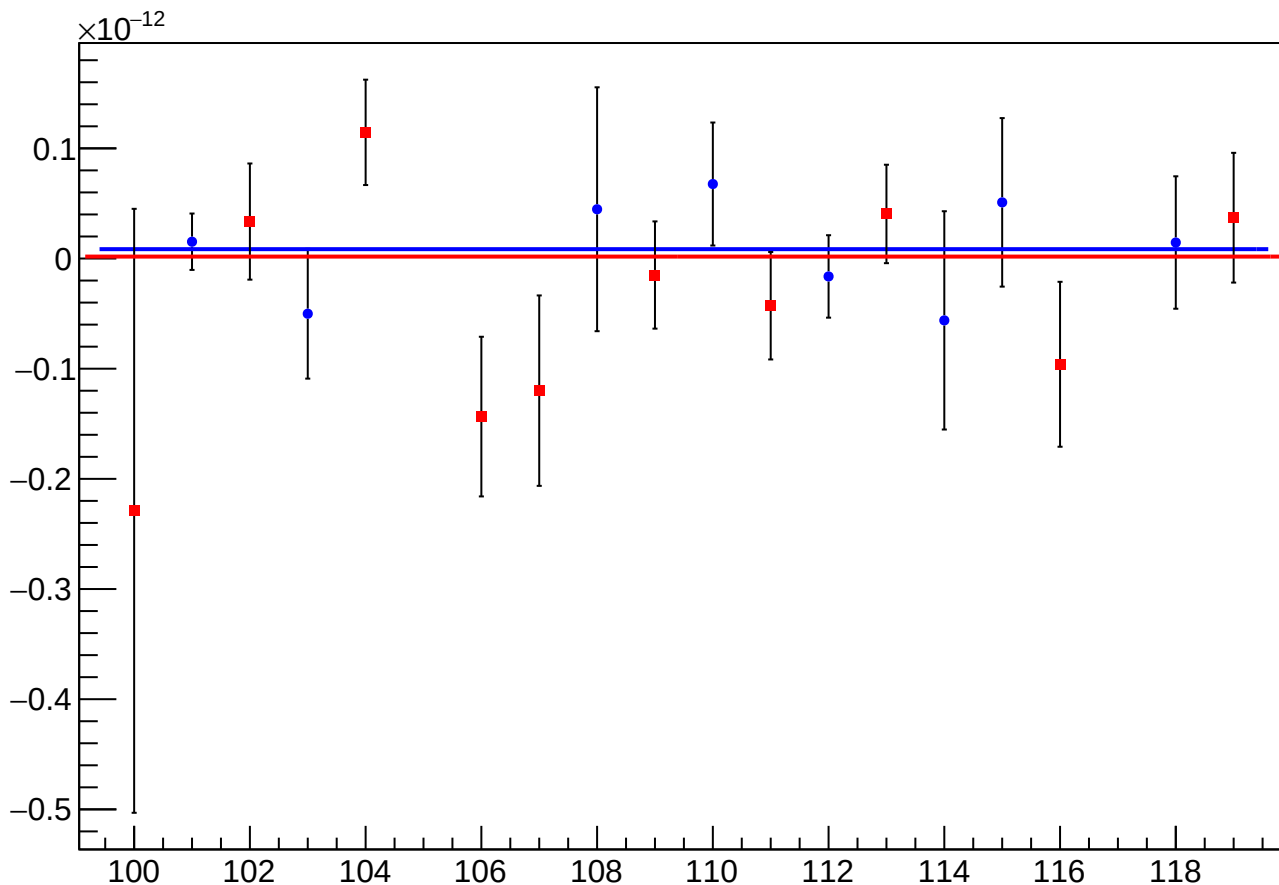
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.613+/-0.010  $\chi^2/\text{NDF}$ : 256332.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 3.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.4/9

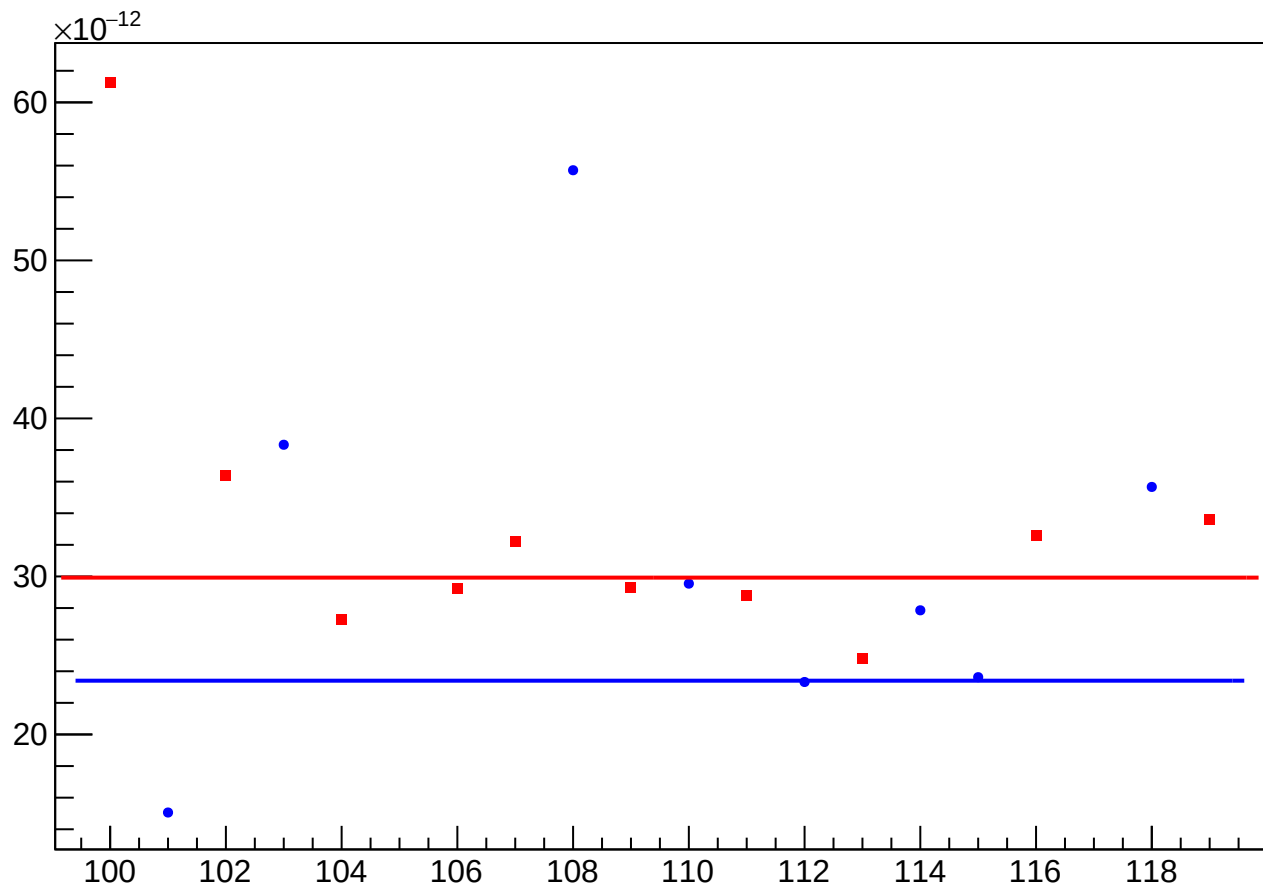
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.9/17

- 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  $\chi^2/\text{NDF}$ : 622881.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 101410.2/9

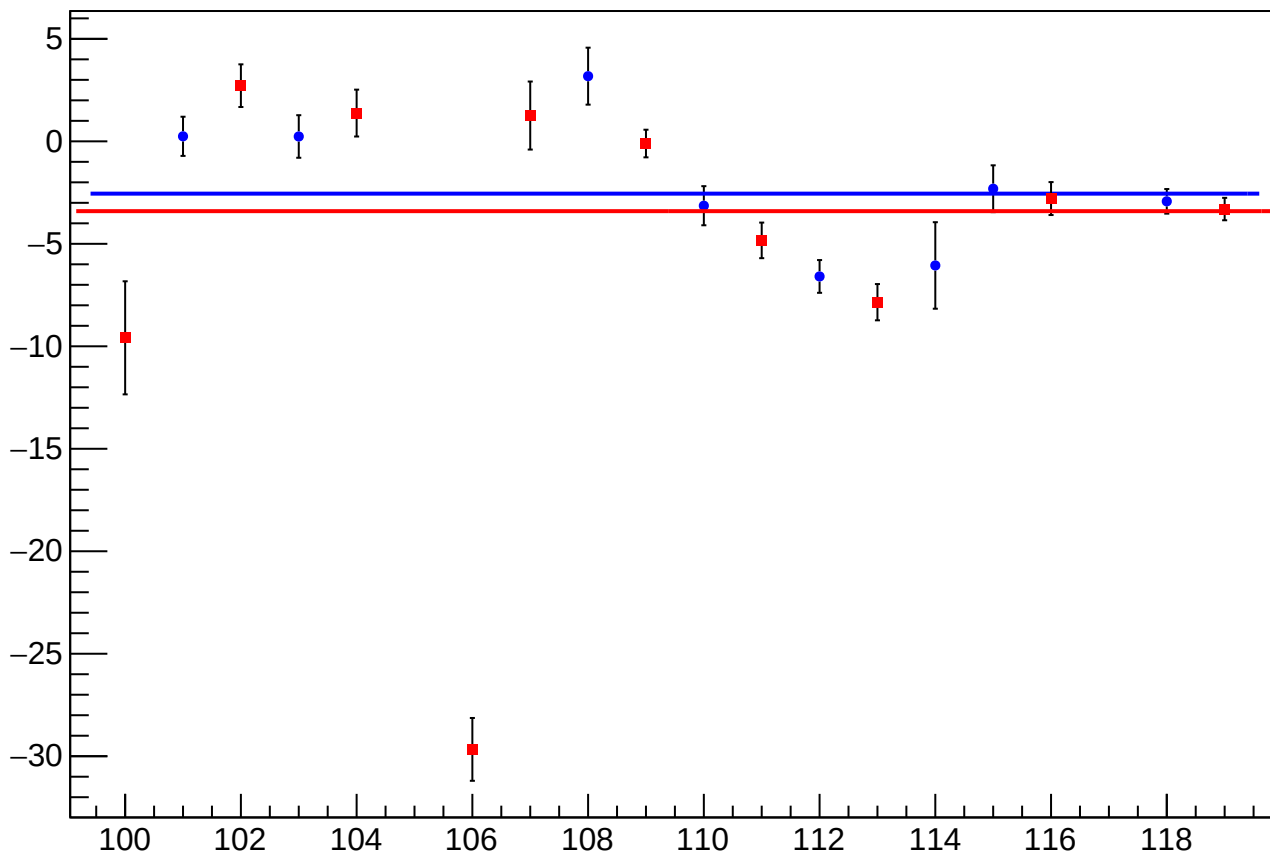
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 860069.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug



Right In:  $-2.552 \pm 0.334$   $\chi^2/\text{NDF}$ : 61.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-3.406 \pm 0.285$   $\chi^2/\text{NDF}$ : 411.1/9

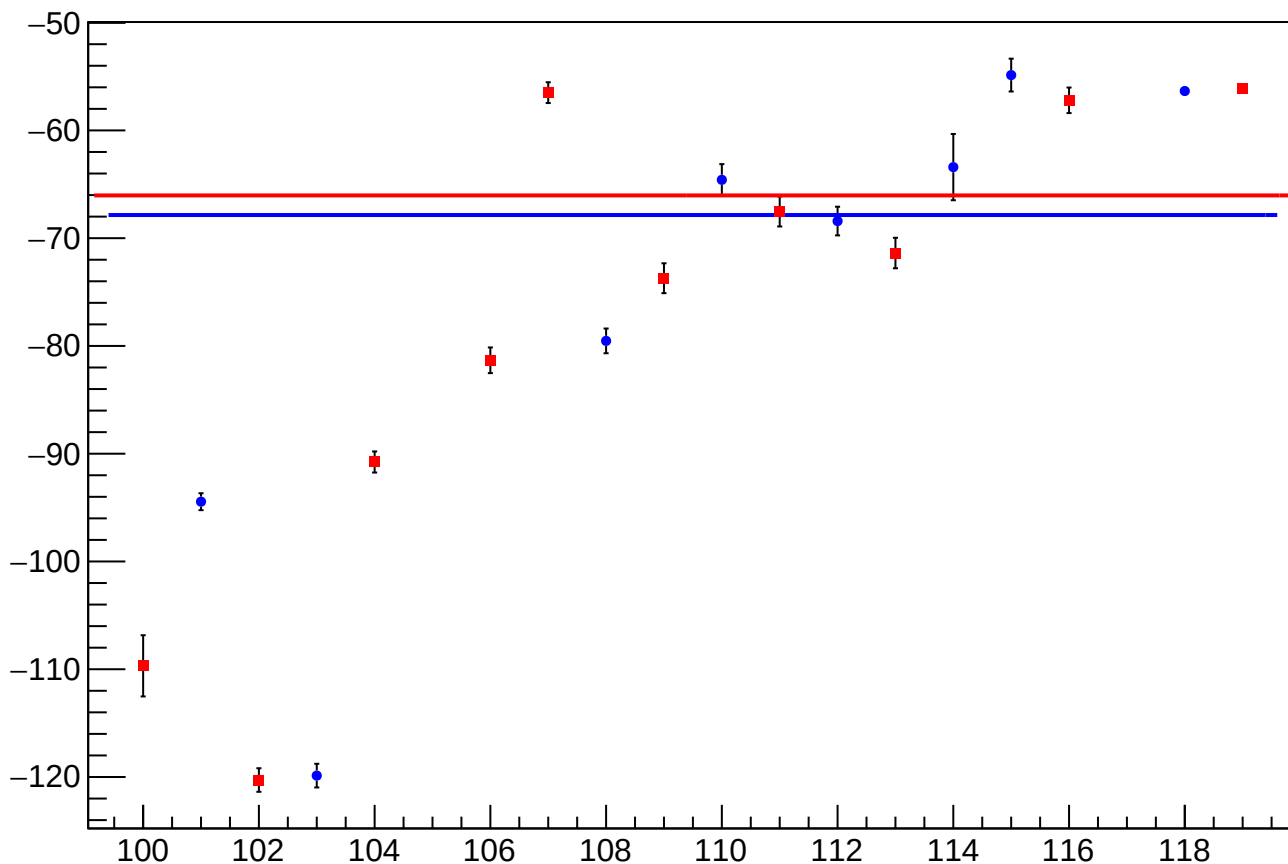
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-3.046 \pm 0.217$   $\chi^2/\text{NDF}$ : 476.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug



Right In:  $-67.851 \pm 0.284$   $\chi^2/\text{NDF}: 4587.7/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-66.032 \pm 0.268$   $\chi^2/\text{NDF}: 4475.2/9$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

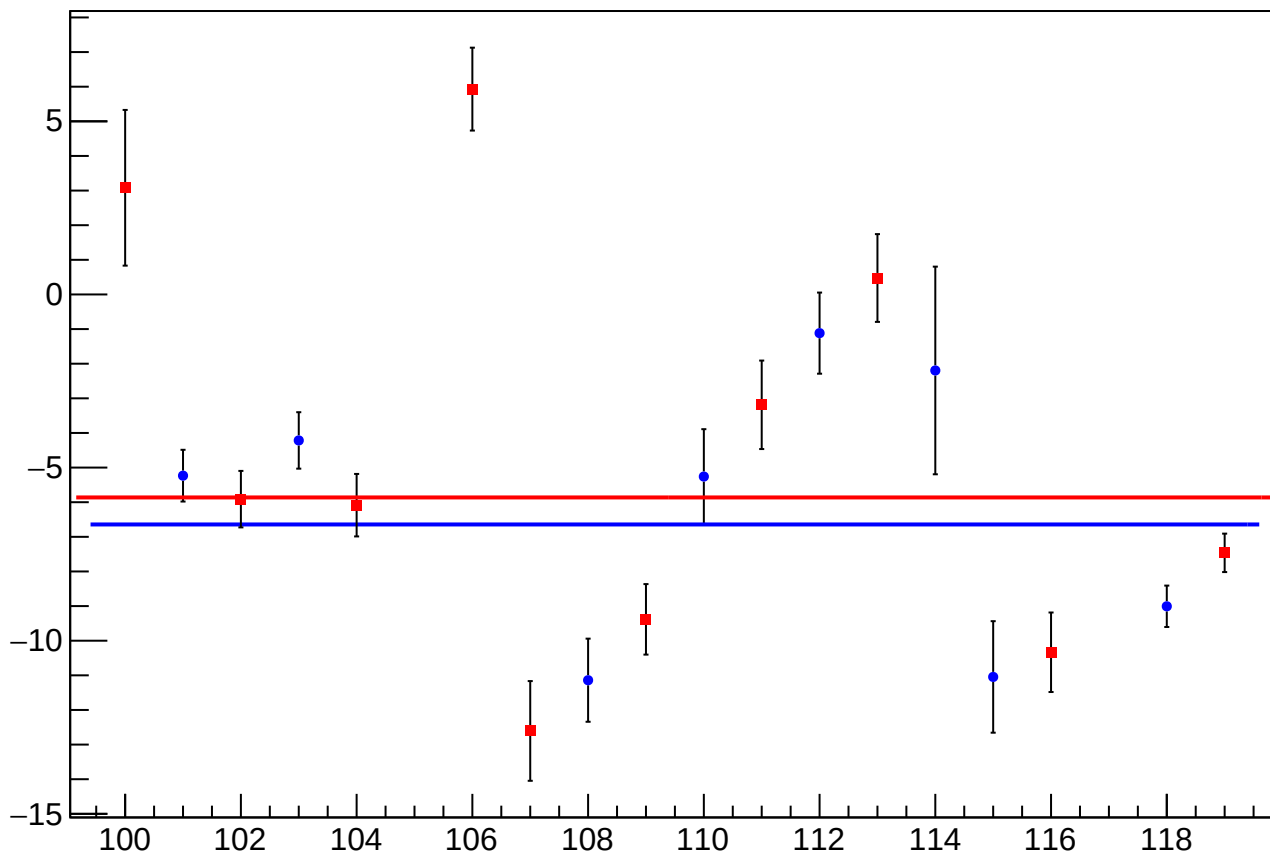
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-66.889 \pm 0.195$   $\chi^2/\text{NDF}: 9084.6/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$



# reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug



Right In: -6.643 $\pm$ 0.342  $\chi^2$ /NDF: 75.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -5.862 $\pm$ 0.311  $\chi^2$ /NDF: 199.7/9

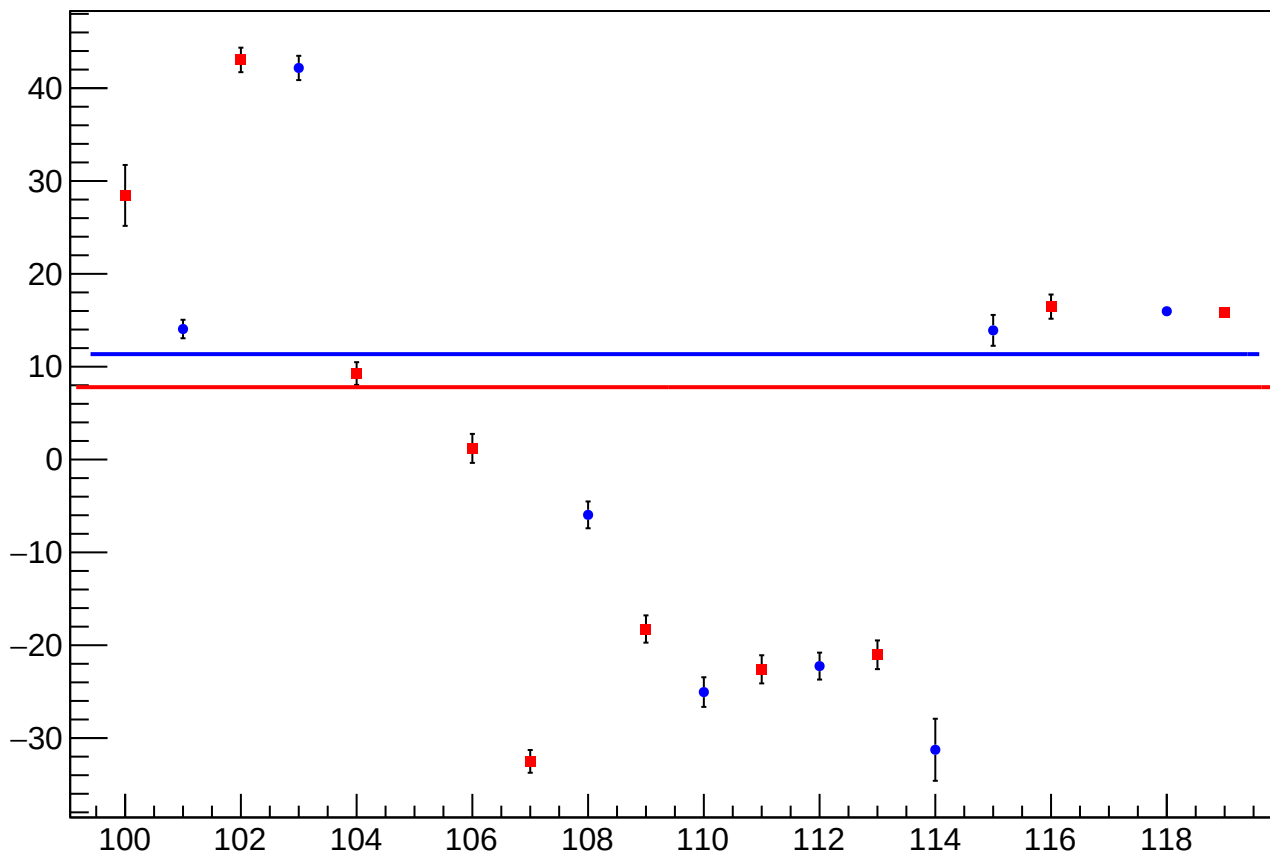
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.216 $\pm$ 0.230  $\chi^2$ /NDF: 277.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug



Right In: 11.352 $\pm$ 0.356  $\chi^2$ /NDF: 2024.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7.794 $\pm$ 0.331  $\chi^2$ /NDF: 3273.8/9

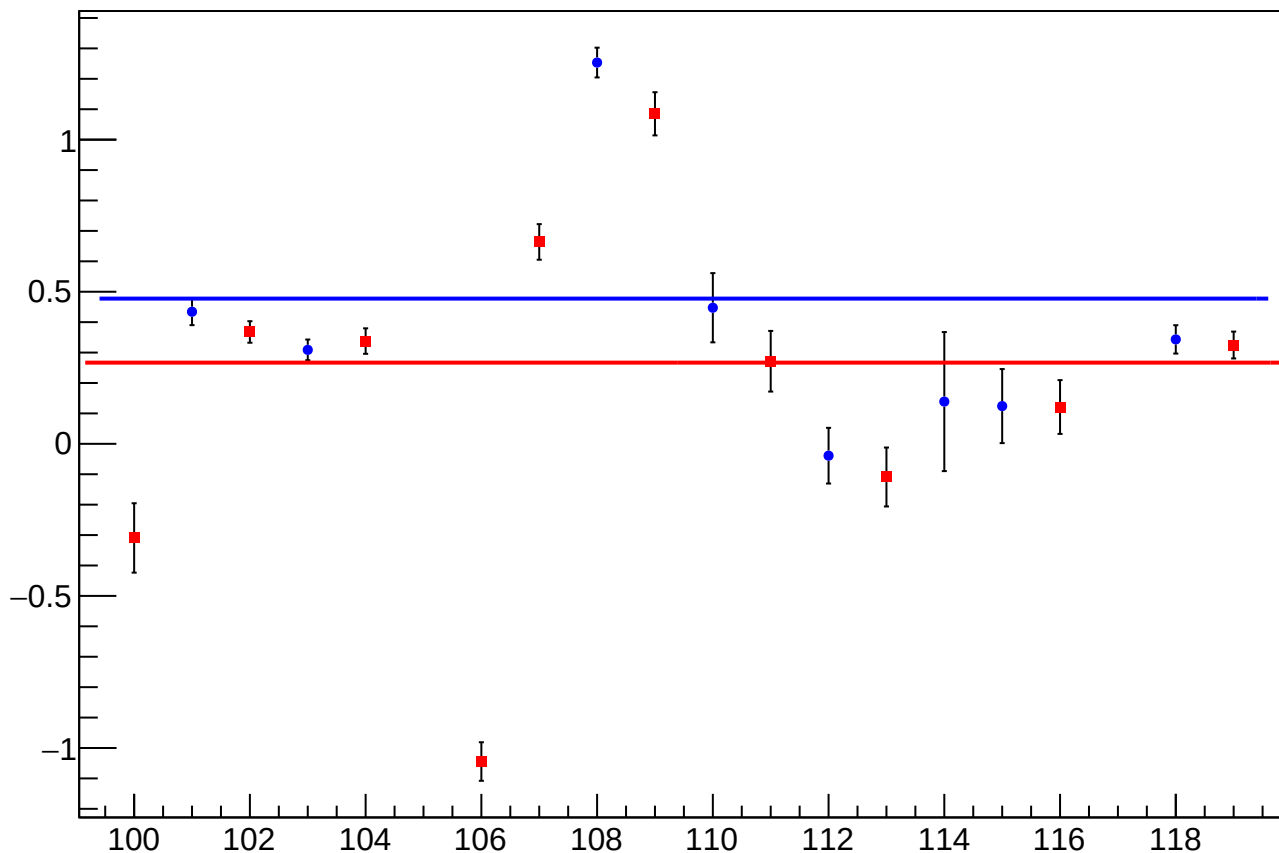
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.443 $\pm$ 0.243  $\chi^2$ /NDF: 5351.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug



Right In: 0.477 $\pm$ 0.020  $\chi^2$ /NDF: 327.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.267 $\pm$ 0.018  $\chi^2$ /NDF: 662.8/9

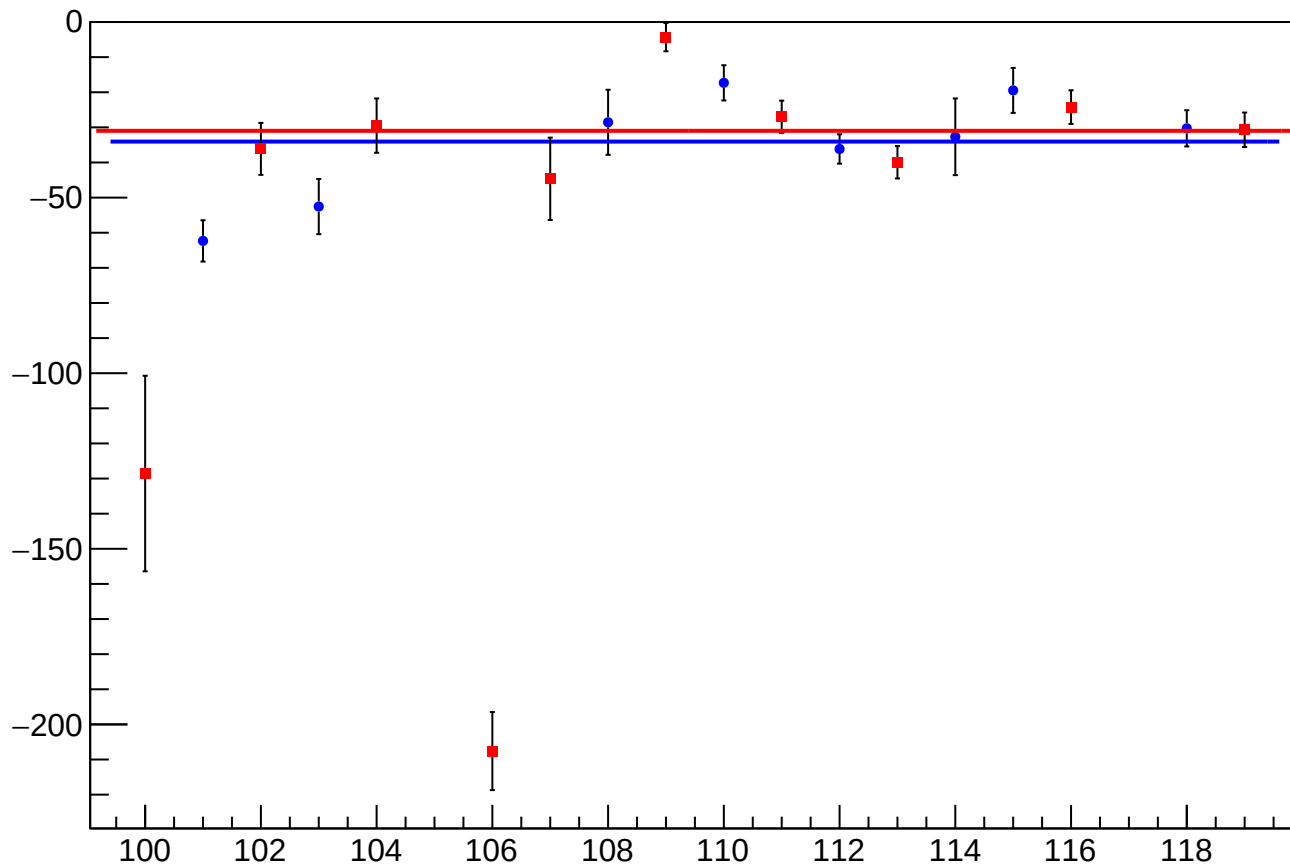
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.363 $\pm$ 0.013  $\chi^2$ /NDF: 1051.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug



Right In:  $-34.048 \pm 2.112$   $\chi^2/\text{NDF}$ : 46.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-30.980 \pm 1.846$   $\chi^2/\text{NDF}$ : 317.4/9

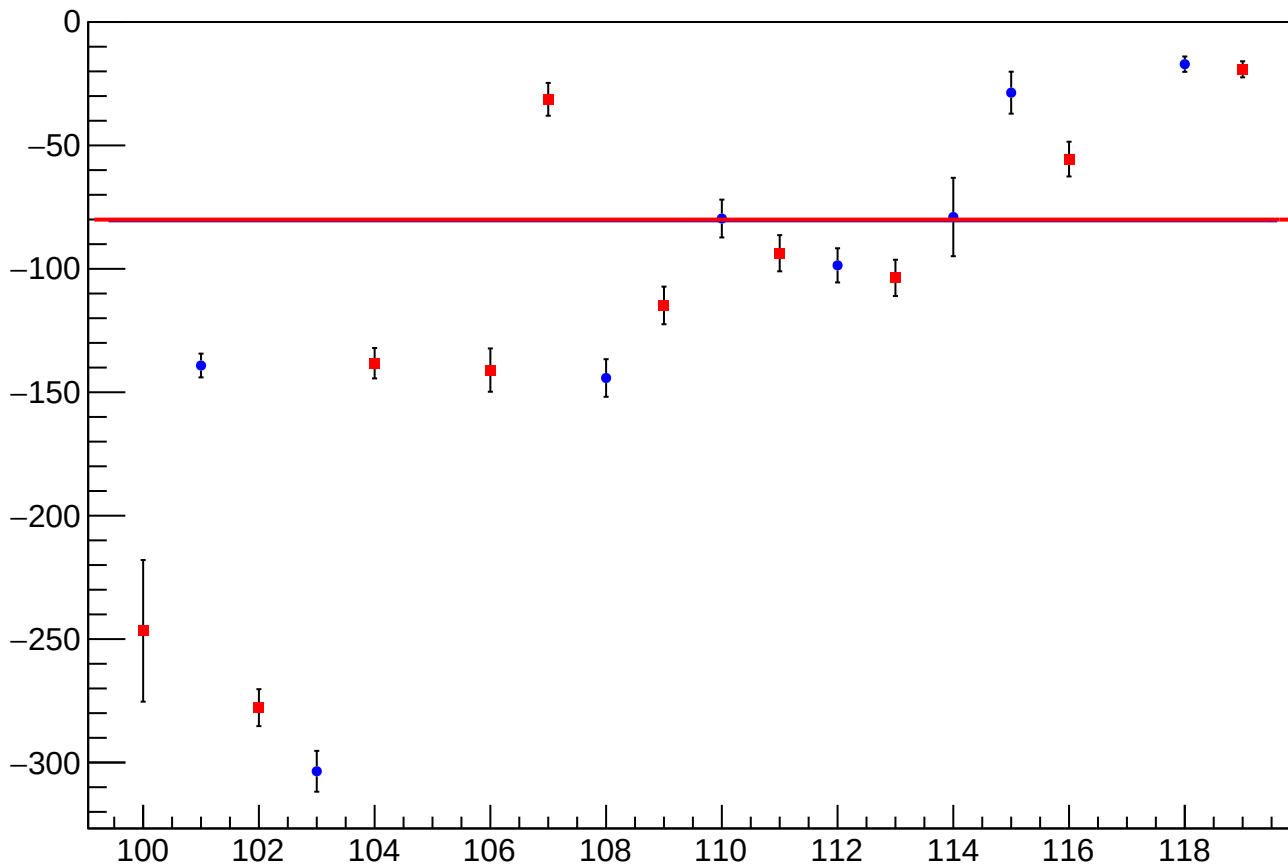
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-32.309 \pm 1.390$   $\chi^2/\text{NDF}$ : 364.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_diff\_bpm4aY\_slope vs Slug



Right In:  $-80.344 \pm 2.067$   $\chi^2/\text{NDF}: 1405.2/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-80.048 \pm 2.000$   $\chi^2/\text{NDF}: 1319.7/9$

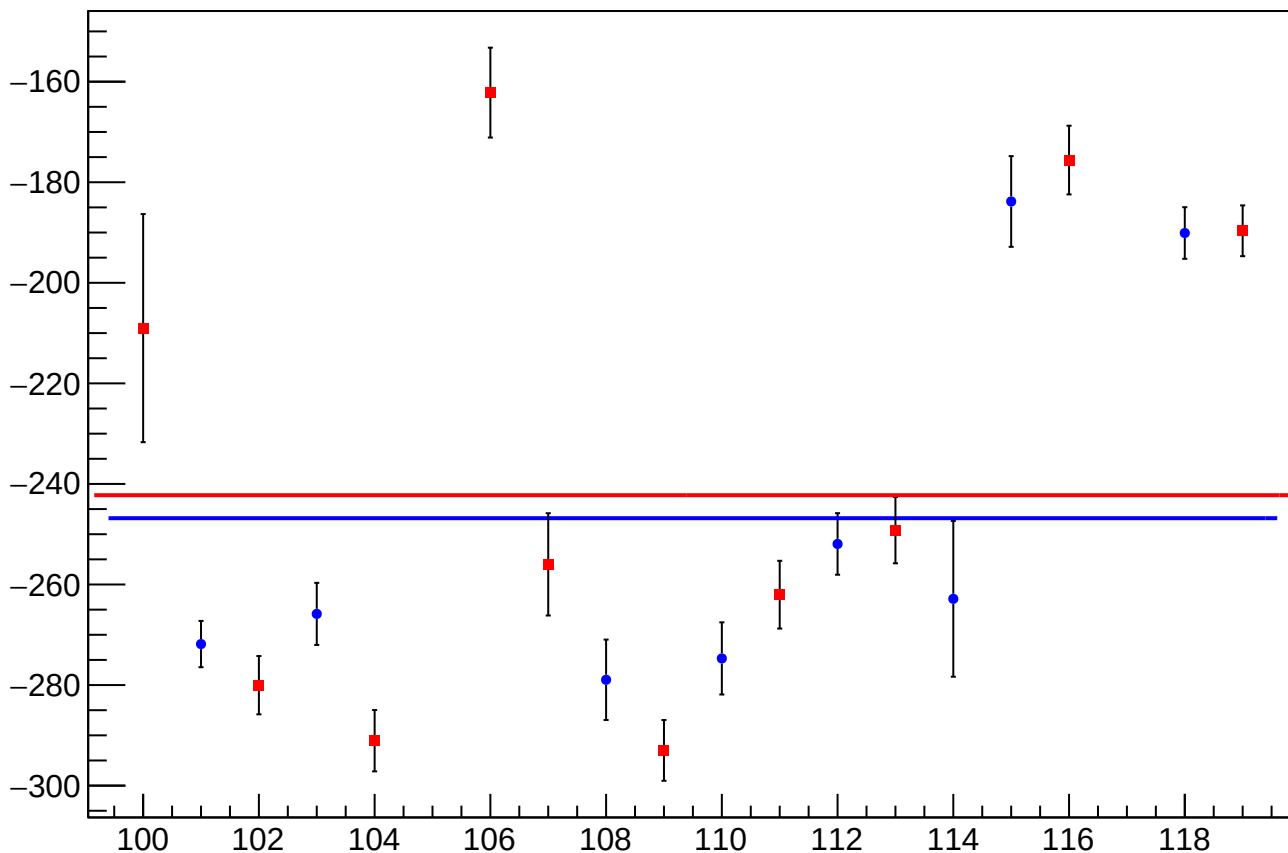
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-80.191 \pm 1.437$   $\chi^2/\text{NDF}: 2725.0/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug



Right In: -246.815+/-2.296  $\chi^2/\text{NDF}$ : 243.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -242.239+/-2.163  $\chi^2/\text{NDF}$ : 474.7/9

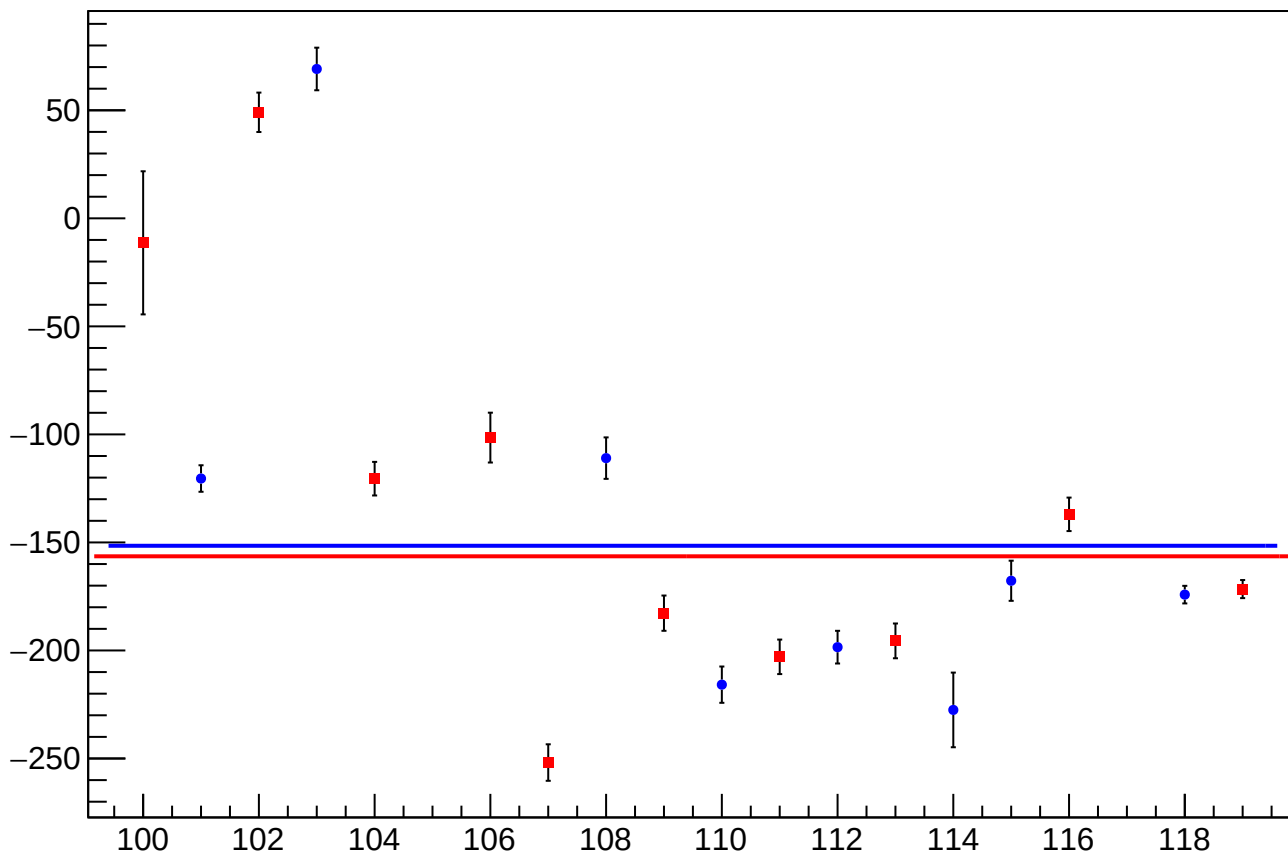
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -244.390+/-1.574  $\chi^2/\text{NDF}$ : 719.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug



Right In:  $-151.548 \pm 2.542$   $\chi^2/\text{NDF}$ : 695.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-156.422 \pm 2.418$   $\chi^2/\text{NDF}$ : 785.9/9

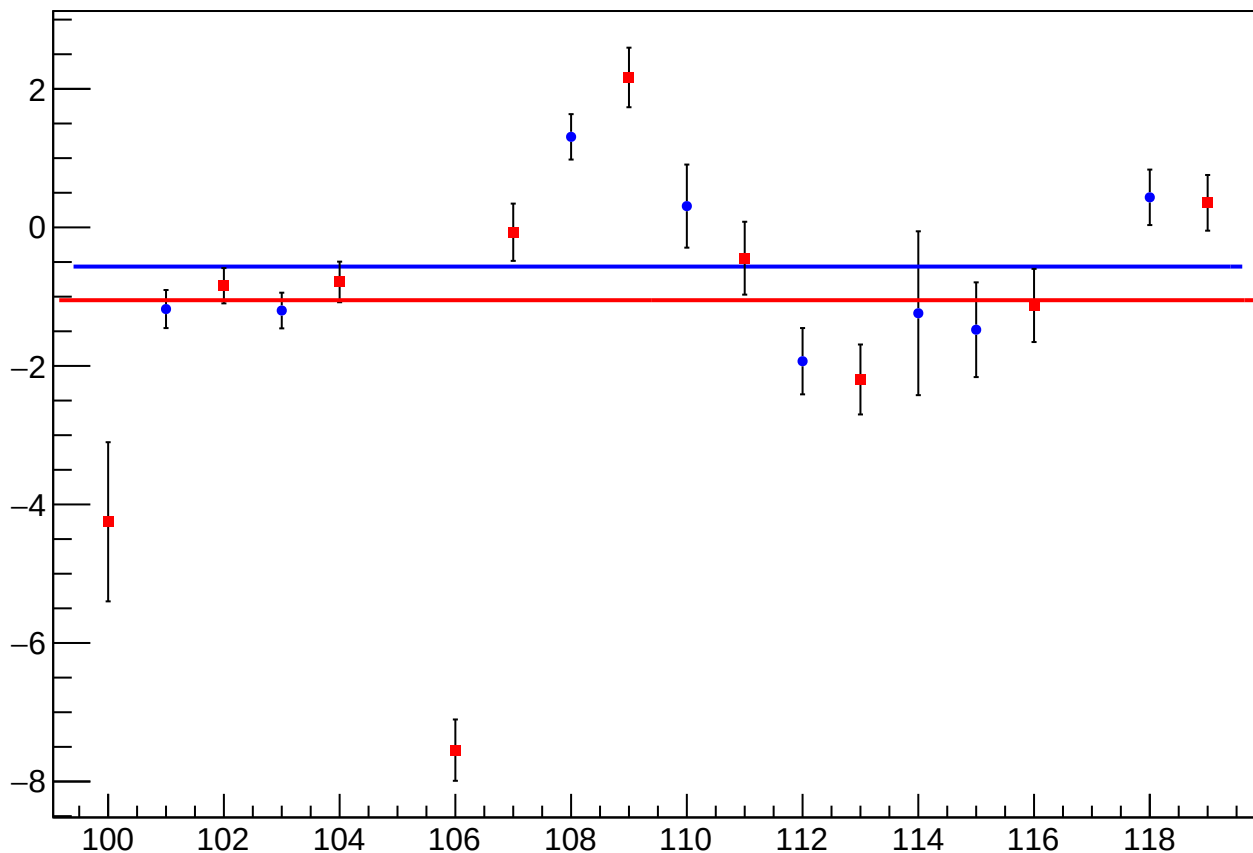
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-154.107 \pm 1.752$   $\chi^2/\text{NDF}$ : 1482.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.566 \pm 0.136$   $\chi^2/\text{NDF}$ : 62.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.051 \pm 0.128$   $\chi^2/\text{NDF}$ : 304.8/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

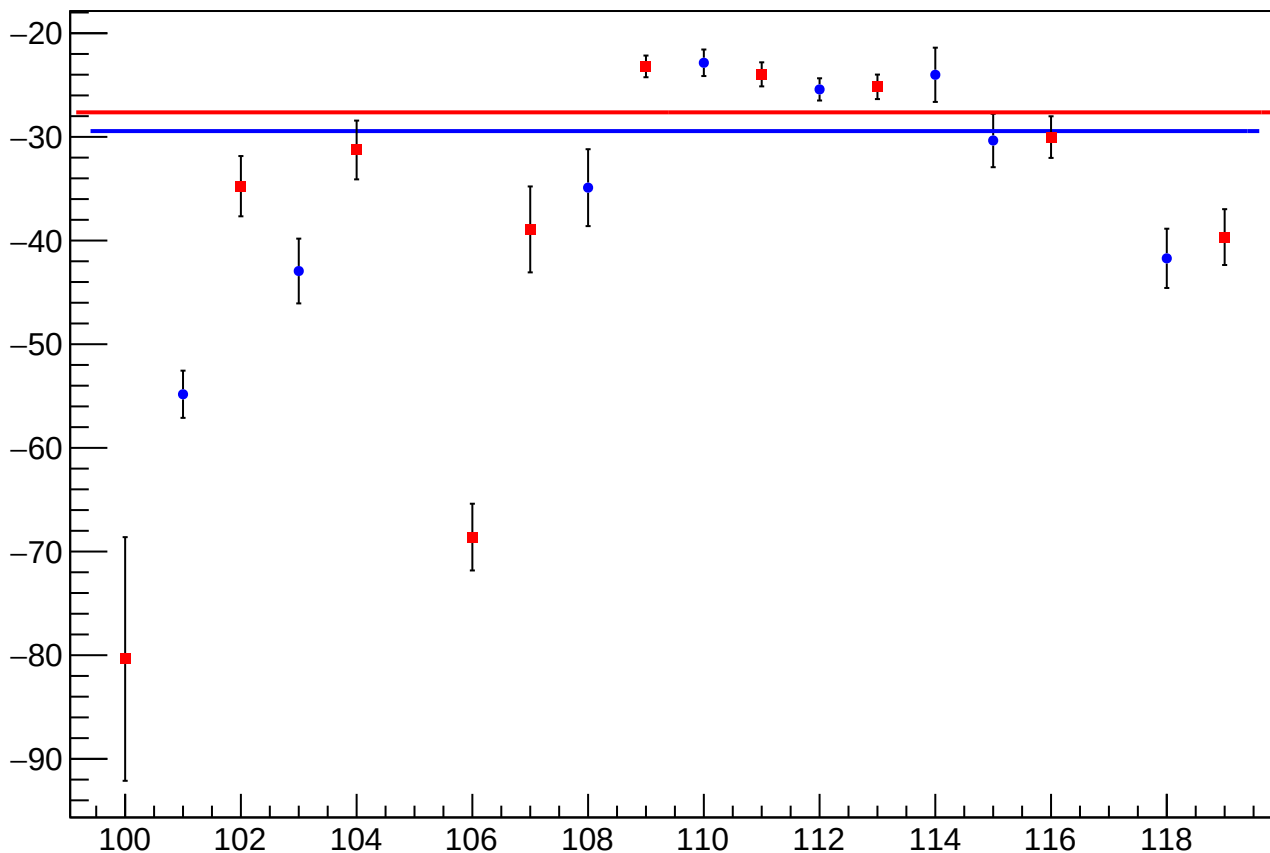
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.825 \pm 0.093$   $\chi^2/\text{NDF}$ : 373.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug



Right In:  $-29.440 \pm 0.664$   $\chi^2/\text{NDF}$ : 208.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-27.633 \pm 0.562$   $\chi^2/\text{NDF}$ : 250.9/9

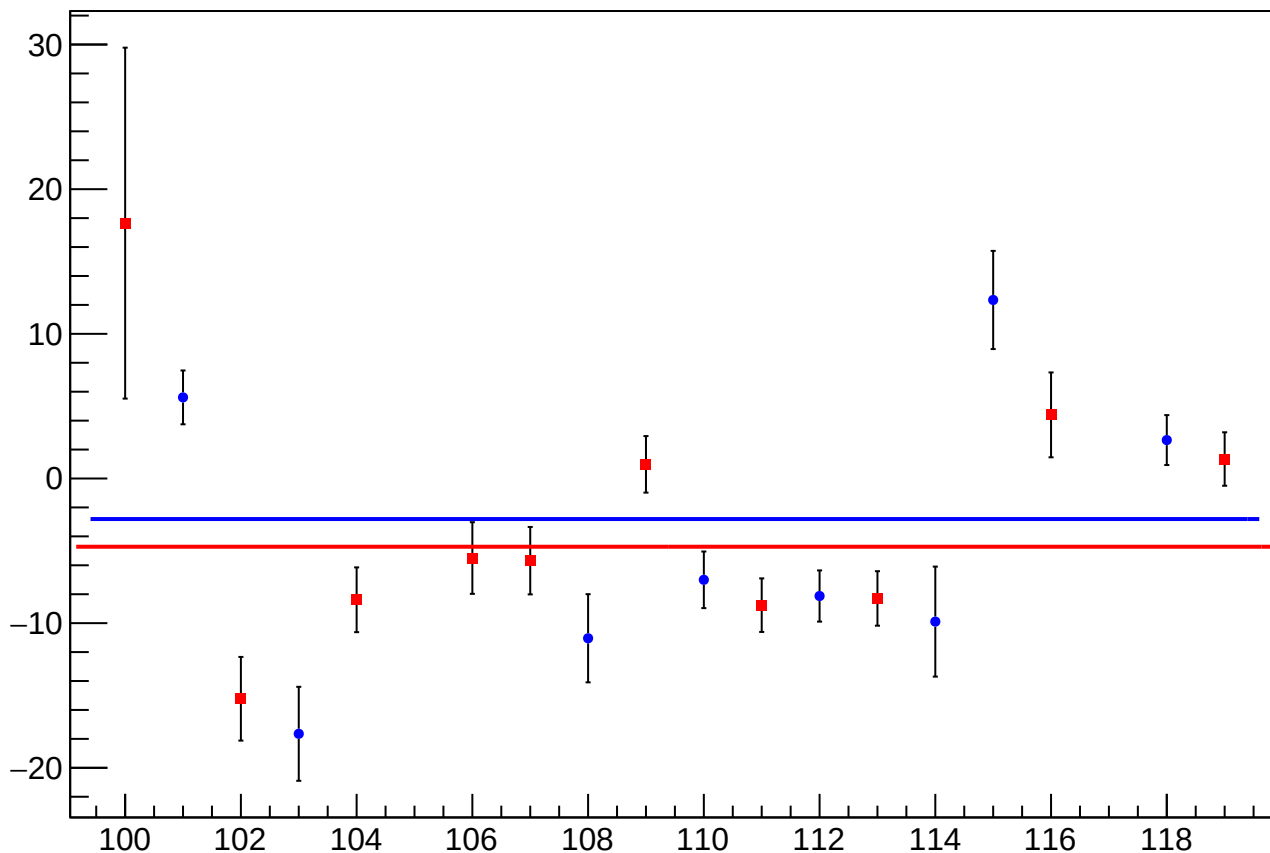
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-28.388 \pm 0.429$   $\chi^2/\text{NDF}$ : 463.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_diff\_bpm4aY\_slope vs Slug



Right In: -2.803+/-0.800  $\chi^2/\text{NDF}$ : 95.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.717+/-0.722  $\chi^2/\text{NDF}$ : 56.8/9

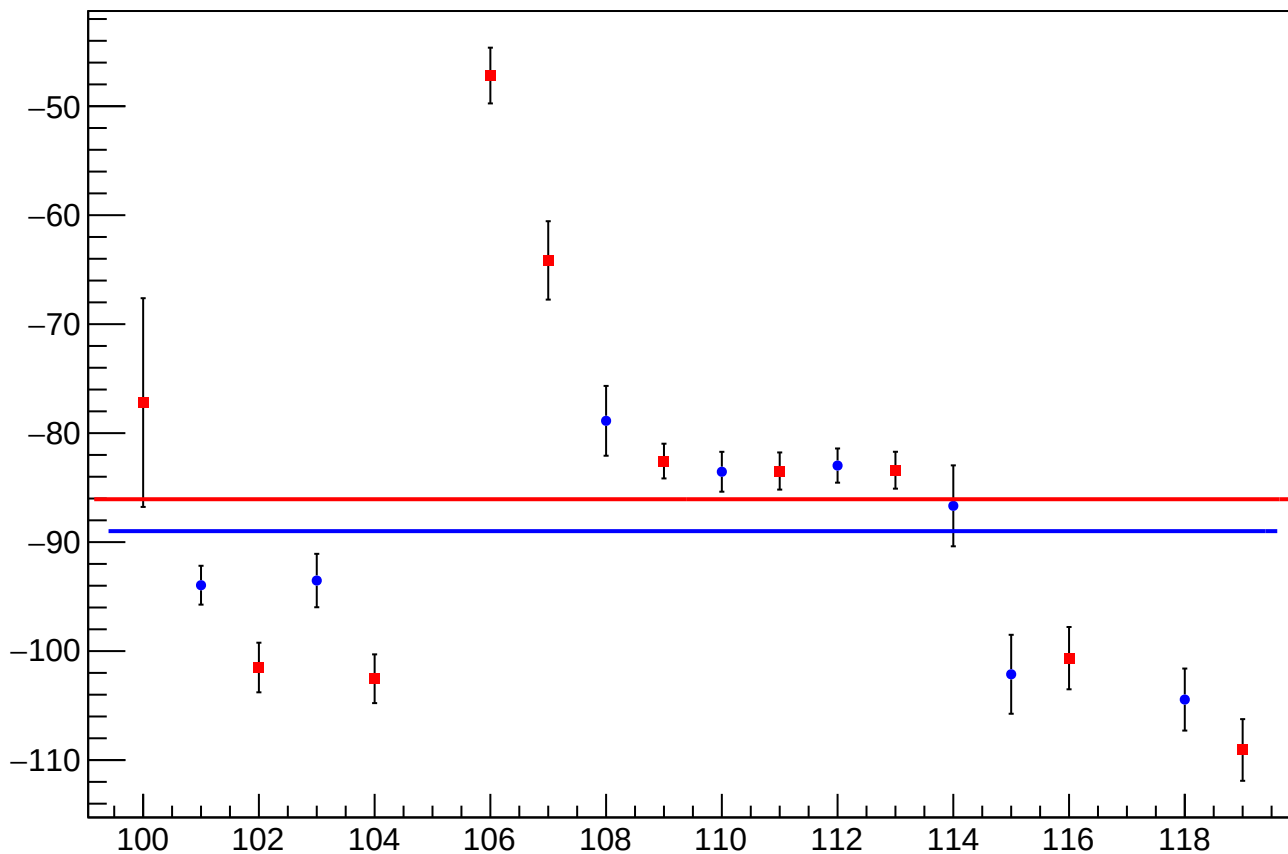
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.857+/-0.536  $\chi^2/\text{NDF}$ : 155.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug



Right In: -88.992 $\pm$ 0.802  $\chi^2$ /NDF: 87.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -86.064 $\pm$ 0.713  $\chi^2$ /NDF: 471.0/9

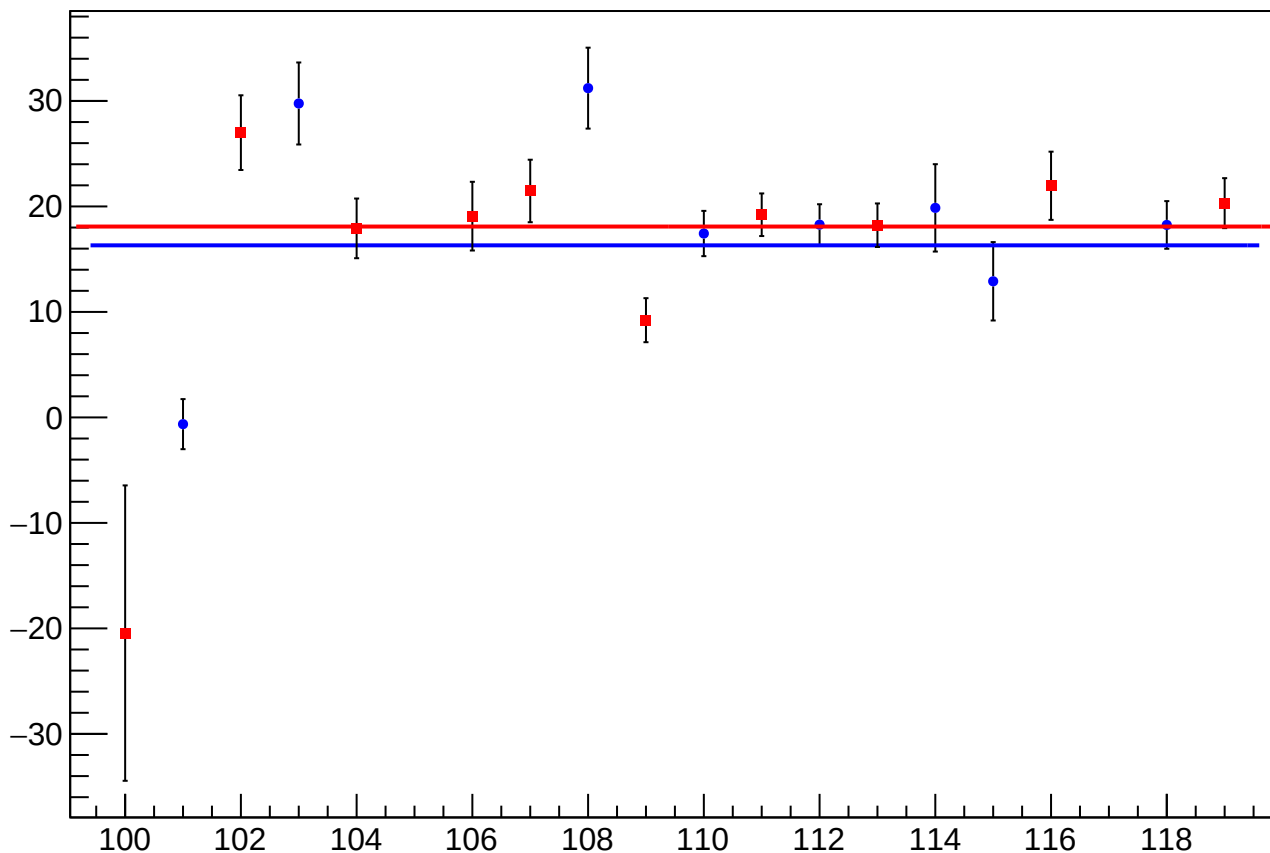
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -87.357 $\pm$ 0.533  $\chi^2$ /NDF: 566.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug



Right In: 16.312 $\pm$ 0.944  $\chi^2$ /NDF: 81.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18.094 $\pm$ 0.845  $\chi^2$ /NDF: 36.0/9

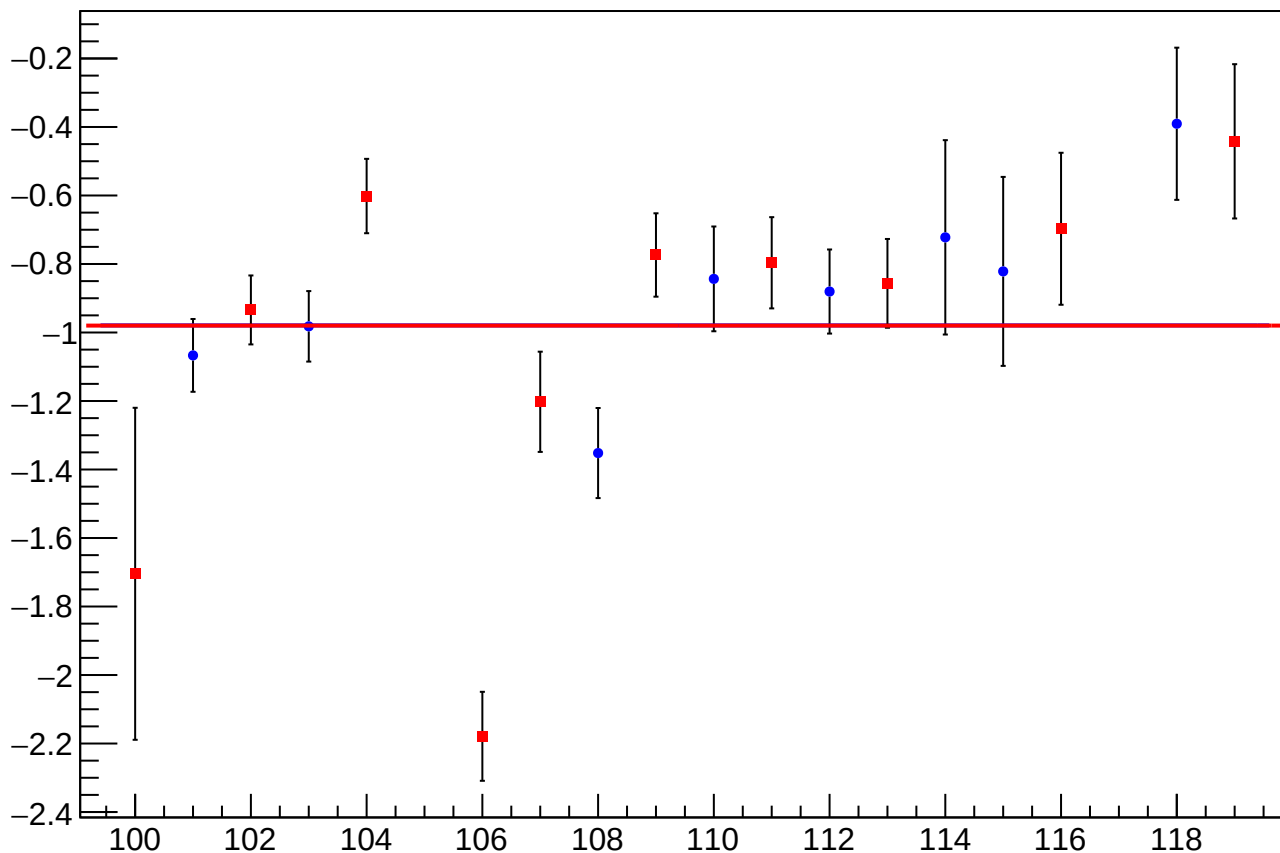
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.302 $\pm$ 0.629  $\chi^2$ /NDF: 119.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug



Right In: -0.979+/-0.050  $\chi^2/\text{NDF}$ : 18.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.980+/-0.044  $\chi^2/\text{NDF}$ : 115.1/9

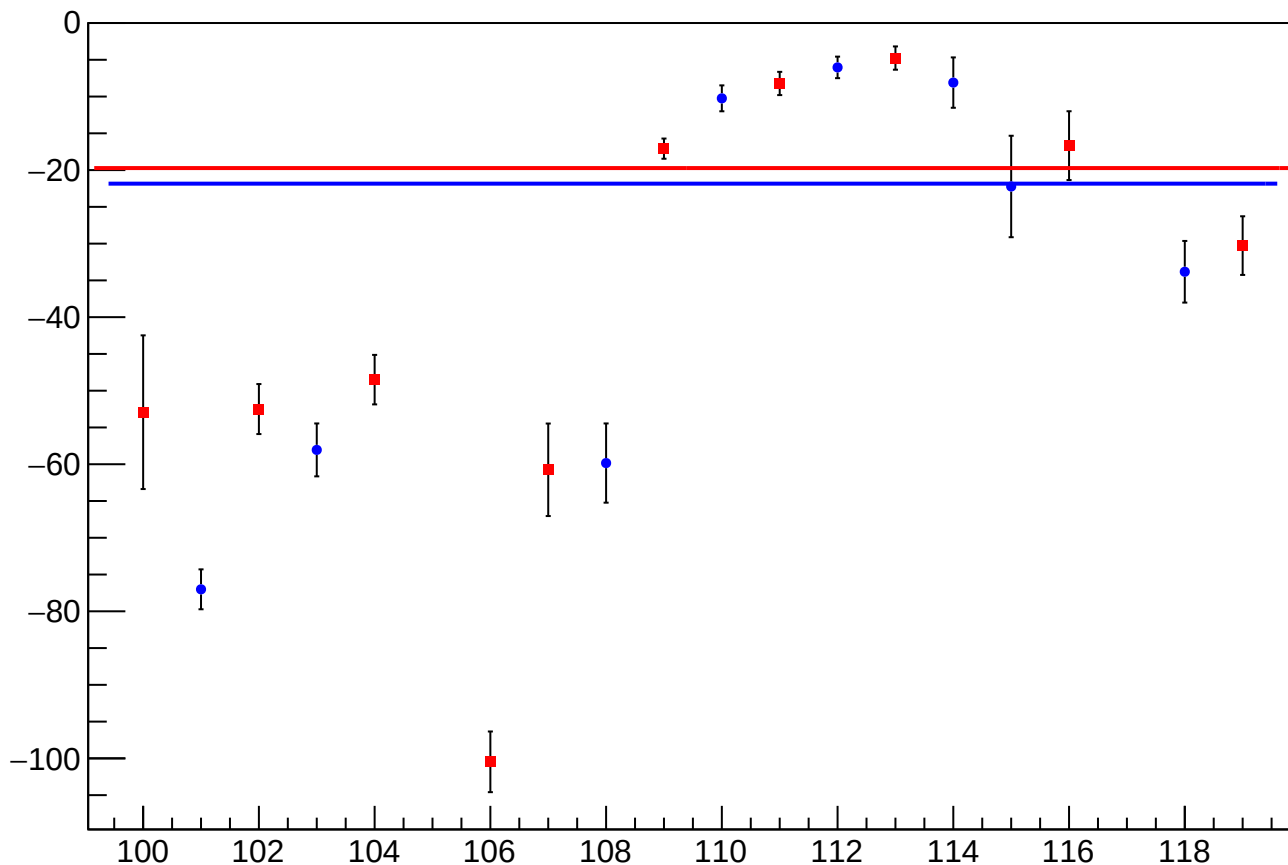
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.980+/-0.033  $\chi^2/\text{NDF}$ : 133.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug



Right In:  $-21.845 \pm 0.913$   $\chi^2/\text{NDF}$ : 748.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-19.726 \pm 0.765$   $\chi^2/\text{NDF}$ : 755.1/9

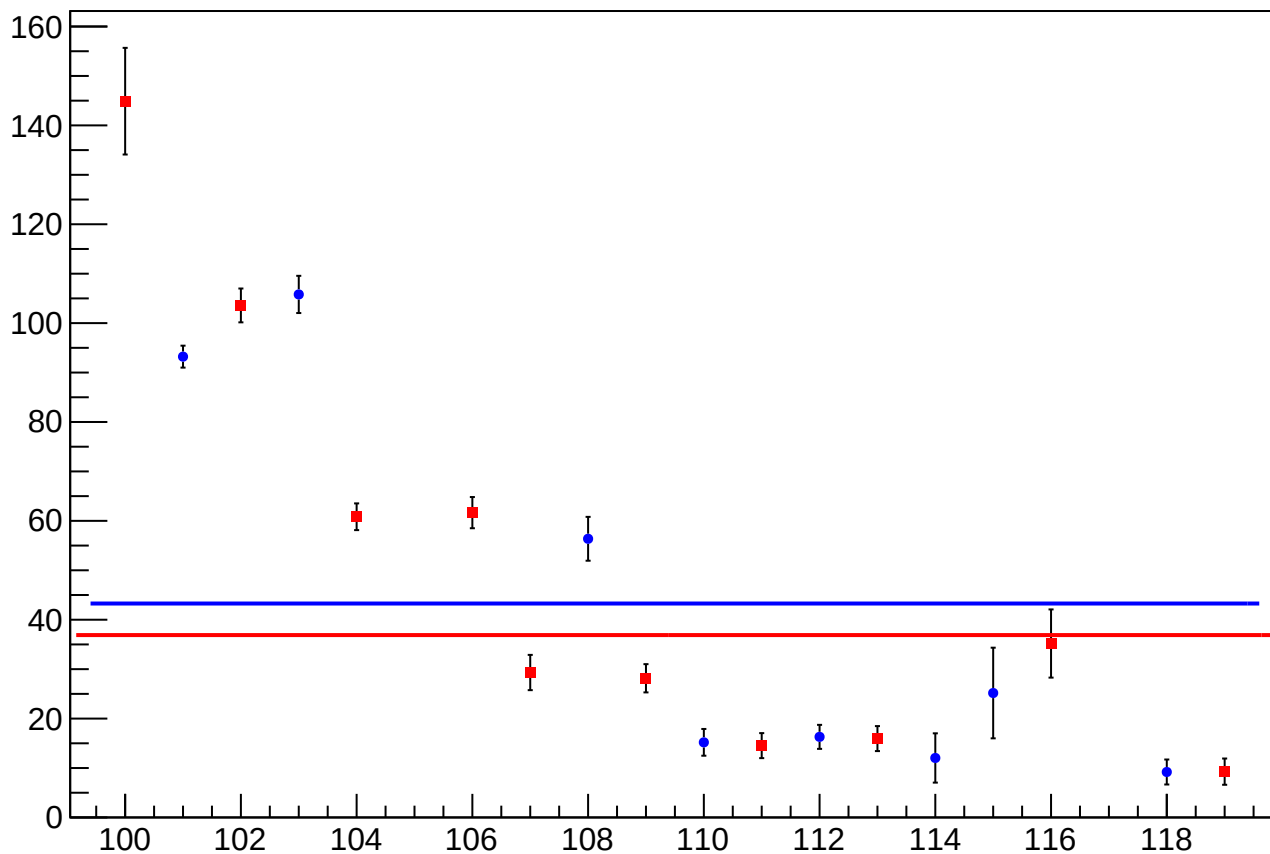
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-20.601 \pm 0.587$   $\chi^2/\text{NDF}$ : 1506.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug



Right In: 43.277 $\pm$ 1.092  $\chi^2$ /NDF: 1247.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.893 $\pm$ 0.996  $\chi^2$ /NDF: 889.0/9

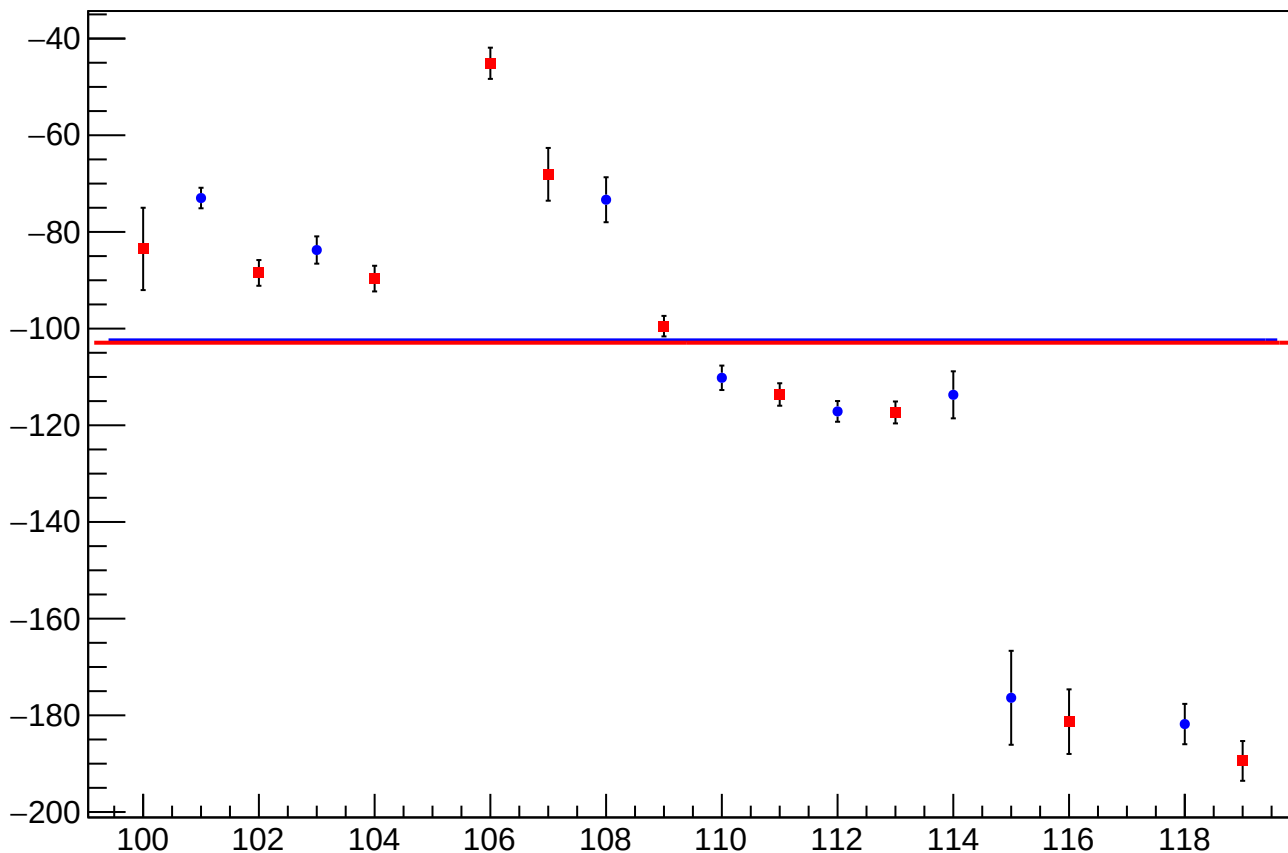
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 39.793 $\pm$ 0.736  $\chi^2$ /NDF: 2154.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug



Right In: -102.434 $\pm$ 1.067  $\chi^2$ /NDF: 756.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -102.917 $\pm$ 0.949  $\chi^2$ /NDF: 1065.2/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

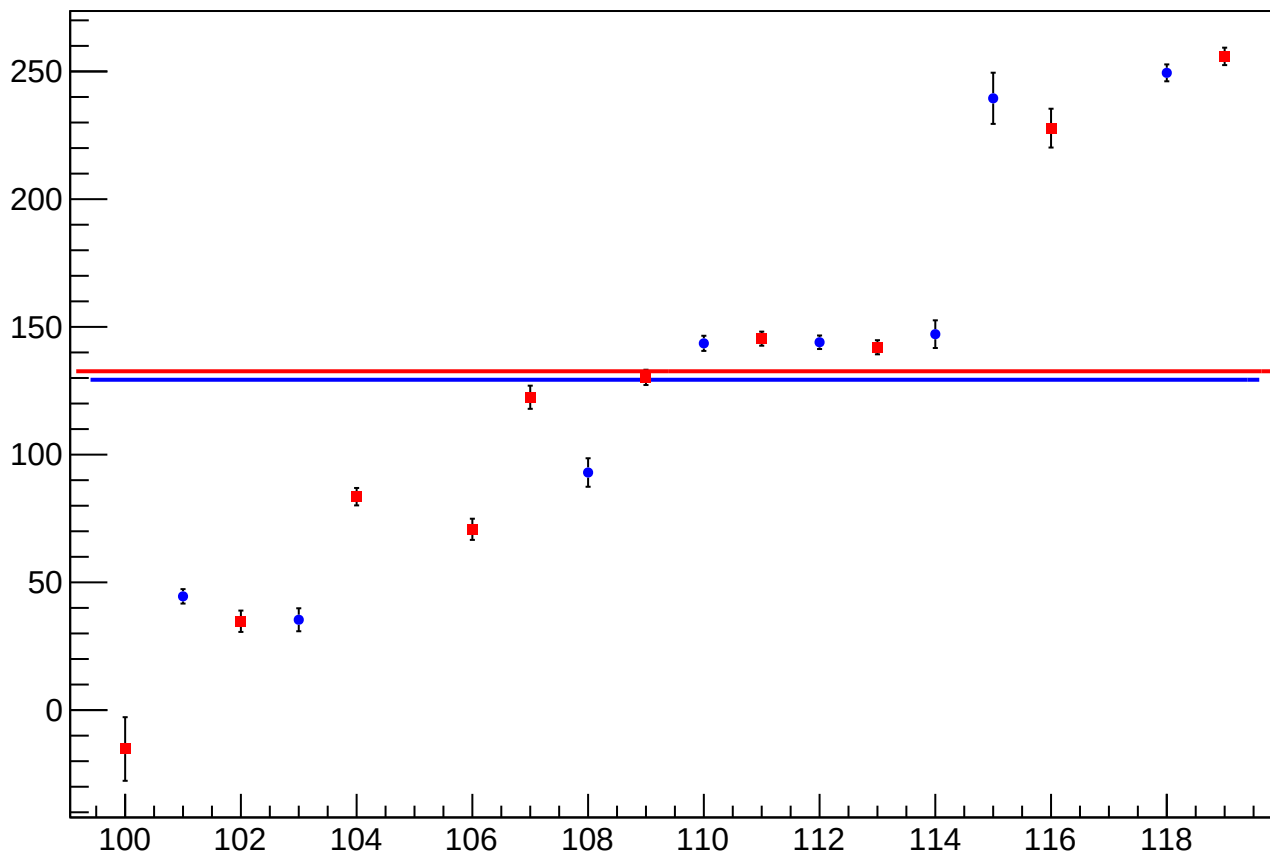
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -102.704 $\pm$ 0.709  $\chi^2$ /NDF: 1821.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug



Right In: 129.309+/-1.293  $\chi^2/\text{NDF}$ : 2884.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 132.634+/-1.167  $\chi^2/\text{NDF}$ : 2622.1/9

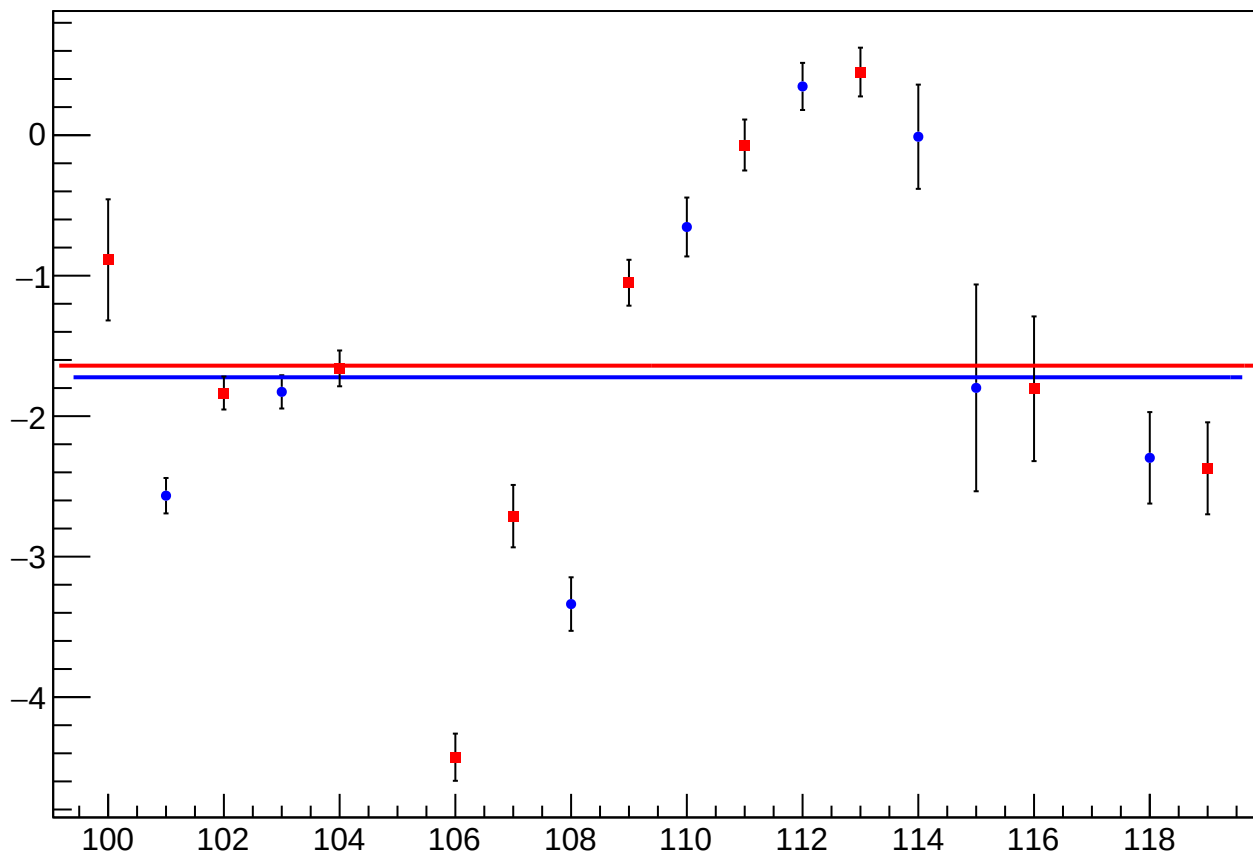
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 131.142+/-0.866  $\chi^2/\text{NDF}$ : 5509.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug



Right In: -1.723+/-0.065  $\chi^2/\text{NDF}$ : 320.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.641+/-0.057  $\chi^2/\text{NDF}$ : 542.9/9

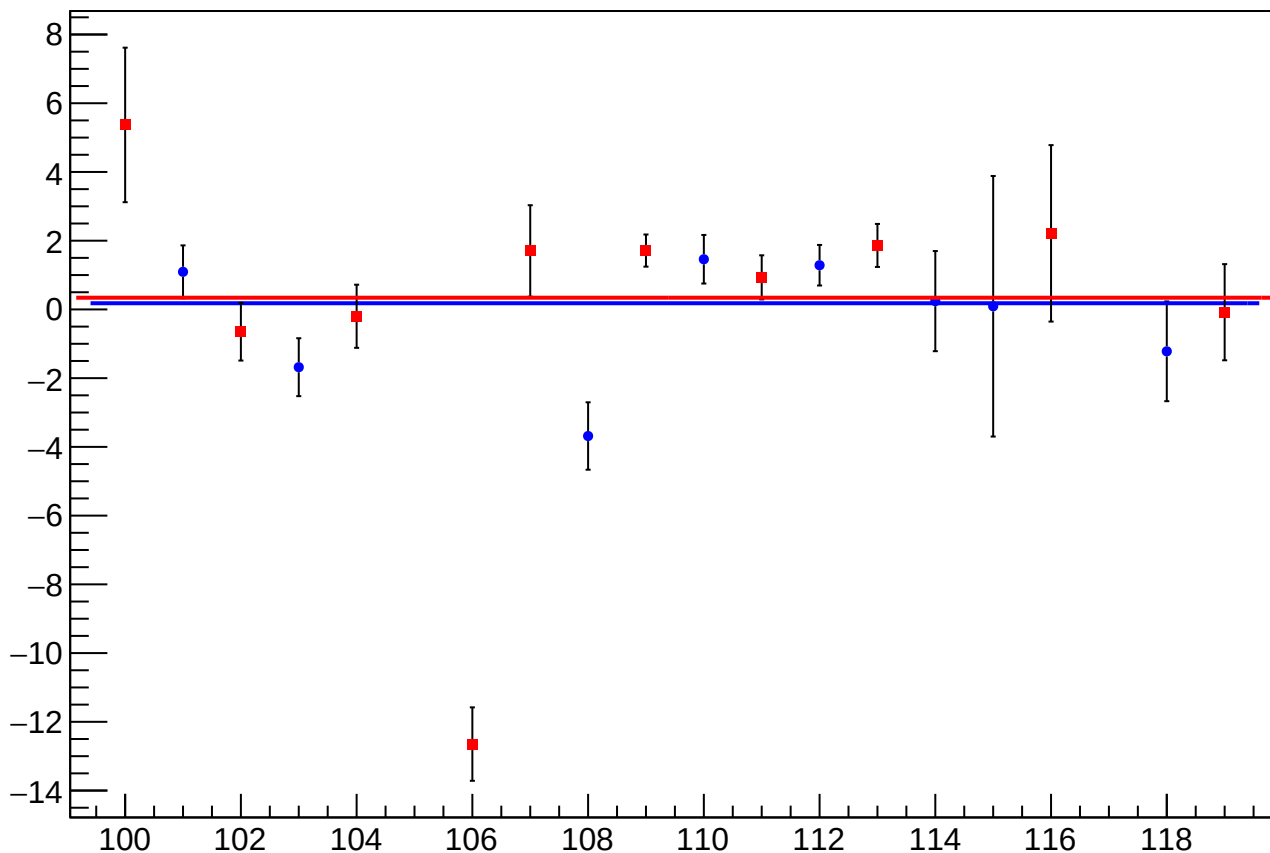
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.677+/-0.043  $\chi^2/\text{NDF}$ : 864.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_diff\_bpm1X\_slope vs Slug



Right In: 0.180 $\pm$ 0.316  $\chi^2$ /NDF: 29.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.341 $\pm$ 0.263  $\chi^2$ /NDF: 171.6/9

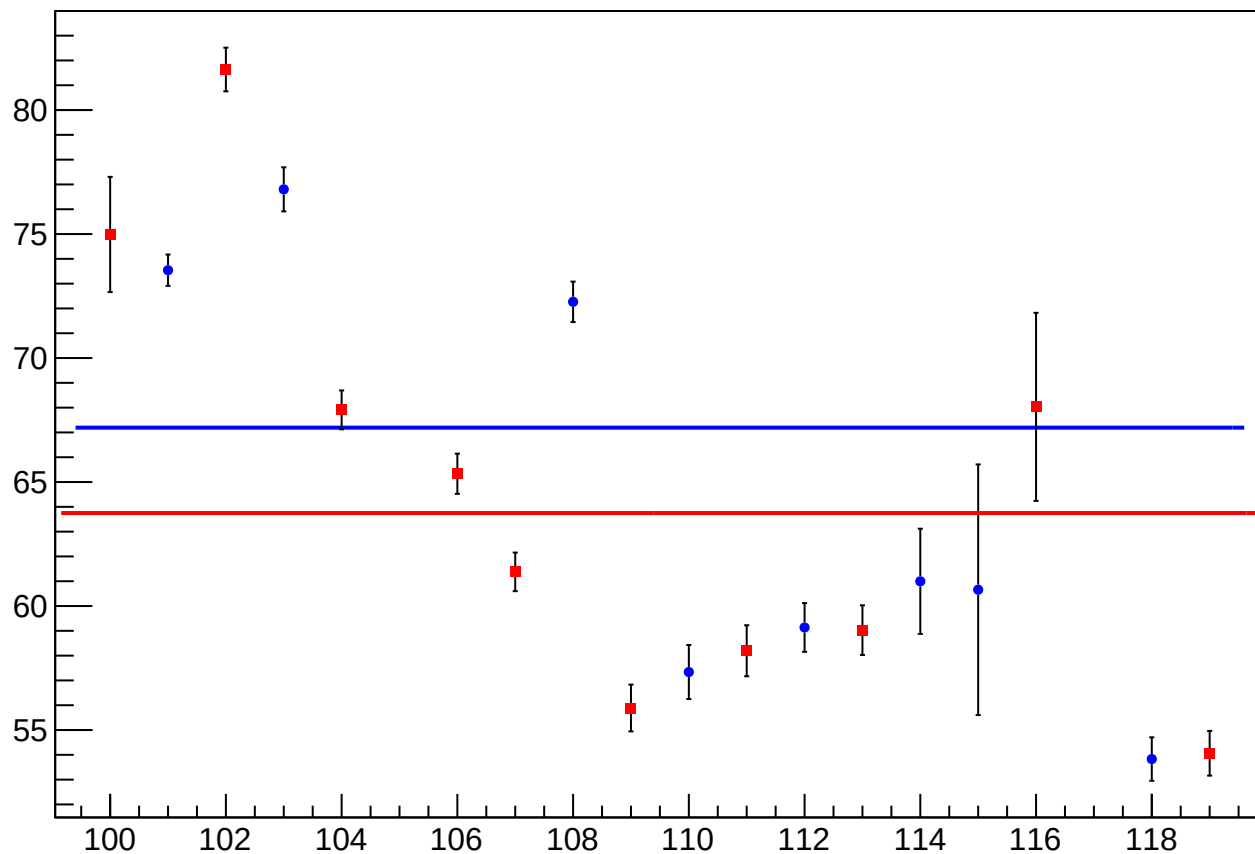
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.275 $\pm$ 0.202  $\chi^2$ /NDF: 201.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug



Right In: 67.194 $\pm$ 0.339  $\chi^2$ /NDF: 648.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 63.751 $\pm$ 0.306  $\chi^2$ /NDF: 715.4/9

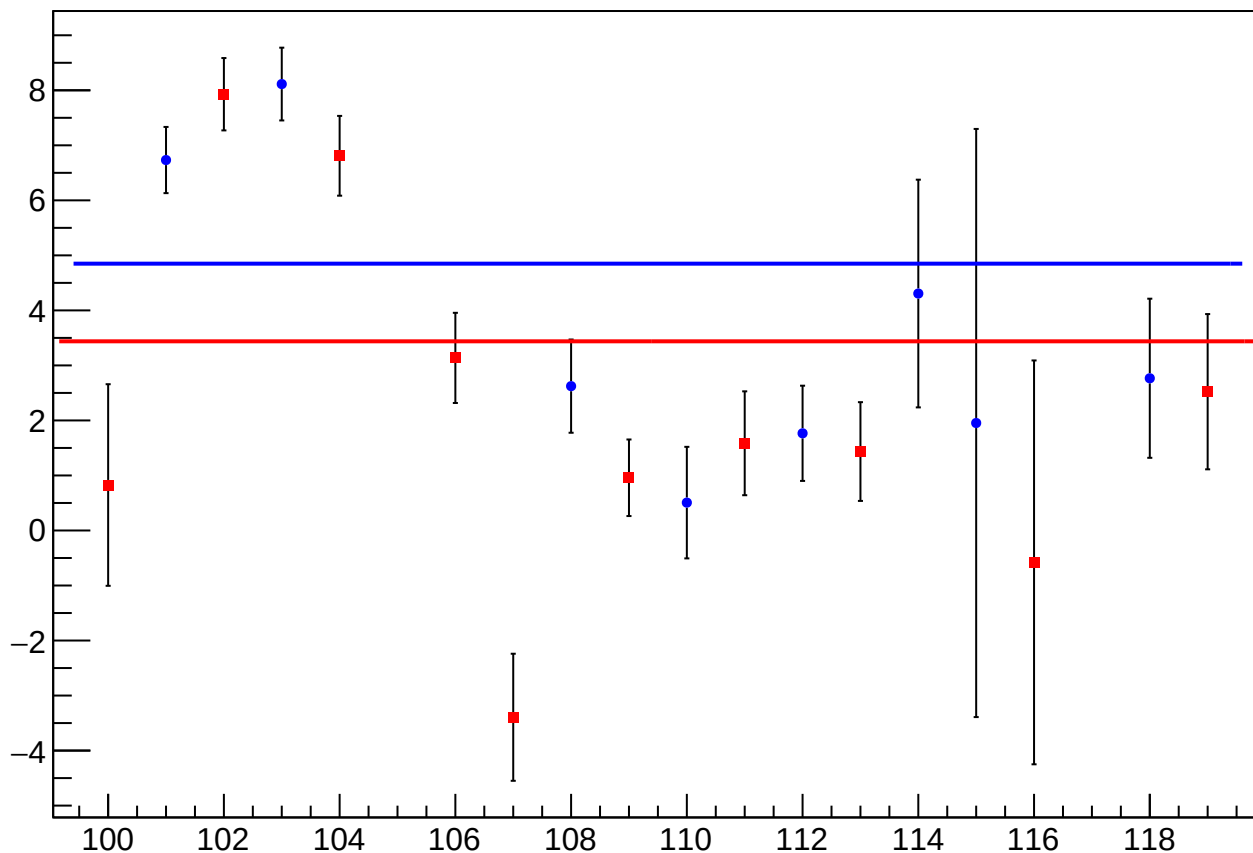
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 65.300 $\pm$ 0.227  $\chi^2$ /NDF: 1420.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug



Right In: 4.849 $\pm$ 0.324  $\chi^2$ /NDF: 74.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.438 $\pm$ 0.292  $\chi^2$ /NDF: 128.6/9

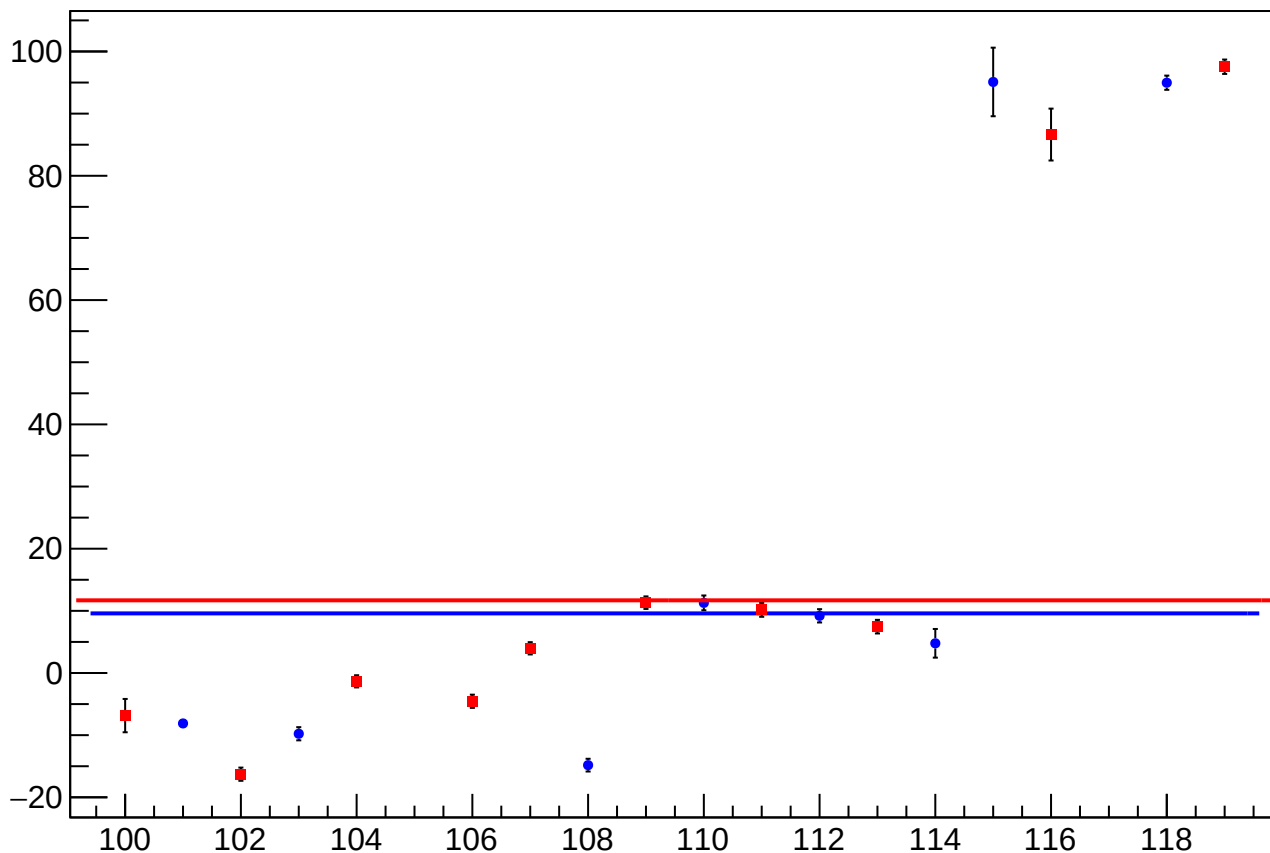
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.069 $\pm$ 0.217  $\chi^2$ /NDF: 213.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug



Right In: 9.590 $\pm$ 0.410  $\chi^2$ /NDF: 7208.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11.692 $\pm$ 0.368  $\chi^2$ /NDF: 7059.0/9

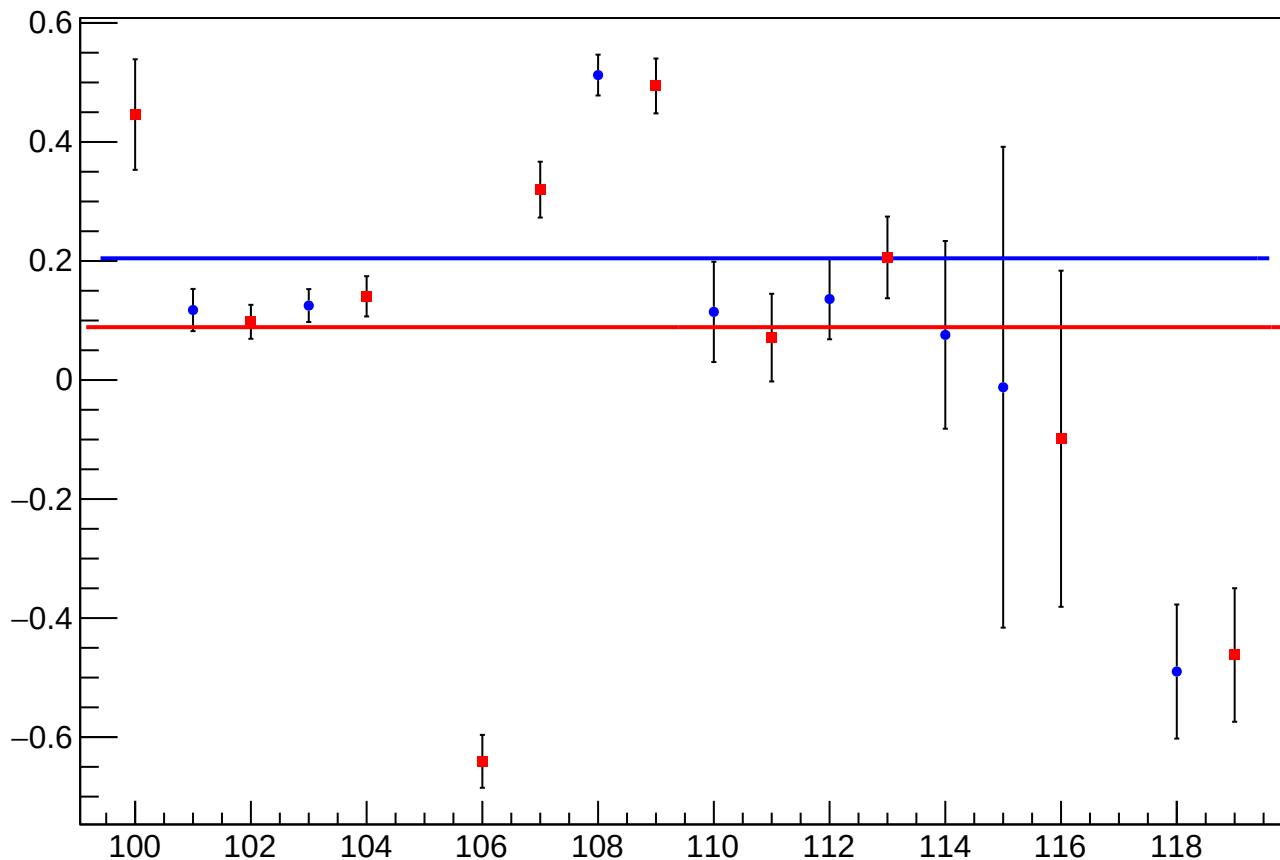
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.755 $\pm$ 0.274  $\chi^2$ /NDF: 14282.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug



Right In: 0.205 $\pm$ 0.017  $\chi^2$ /NDF: 136.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.089 $\pm$ 0.016  $\chi^2$ /NDF: 415.8/9

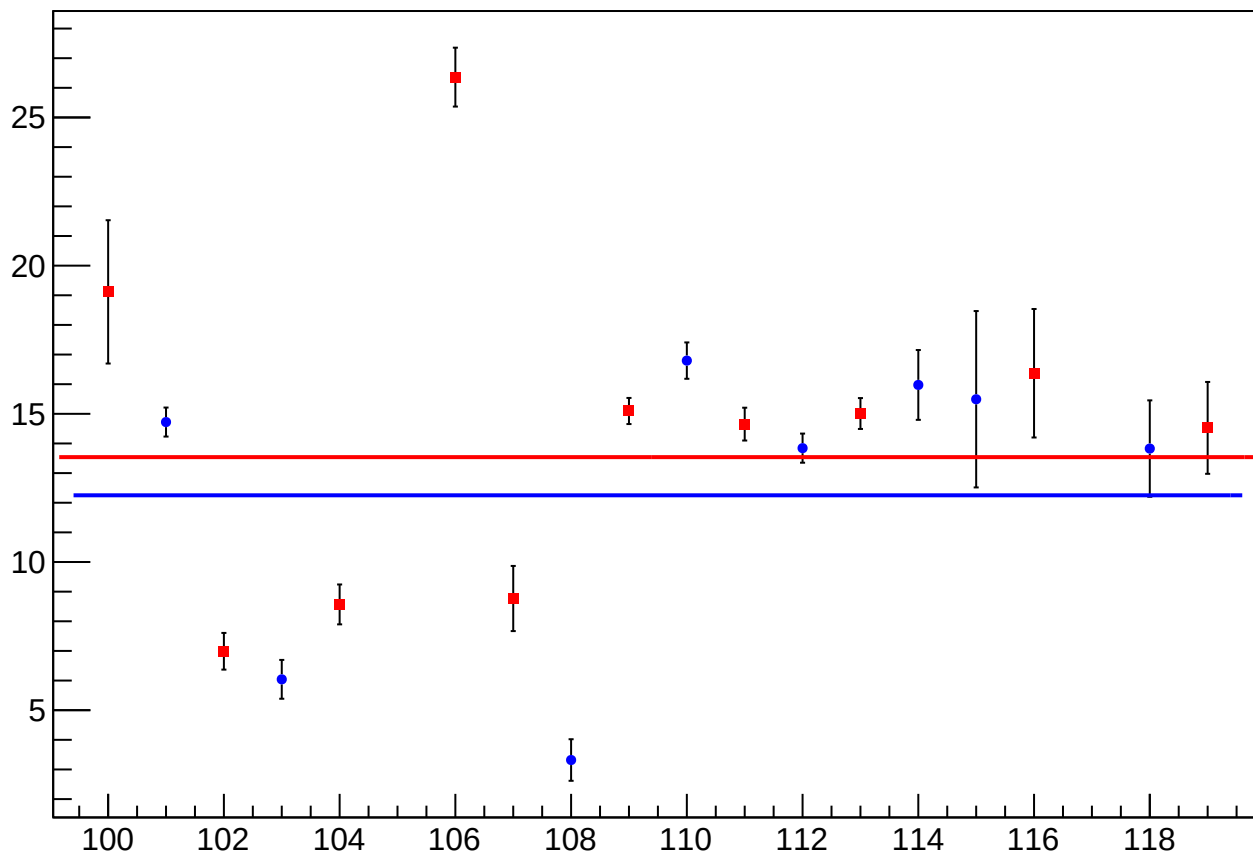
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.141 $\pm$ 0.011  $\chi^2$ /NDF: 576.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug



Right In: 12.251 $\pm$ 0.246  $\chi^2$ /NDF: 355.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13.539 $\pm$ 0.226  $\chi^2$ /NDF: 383.8/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

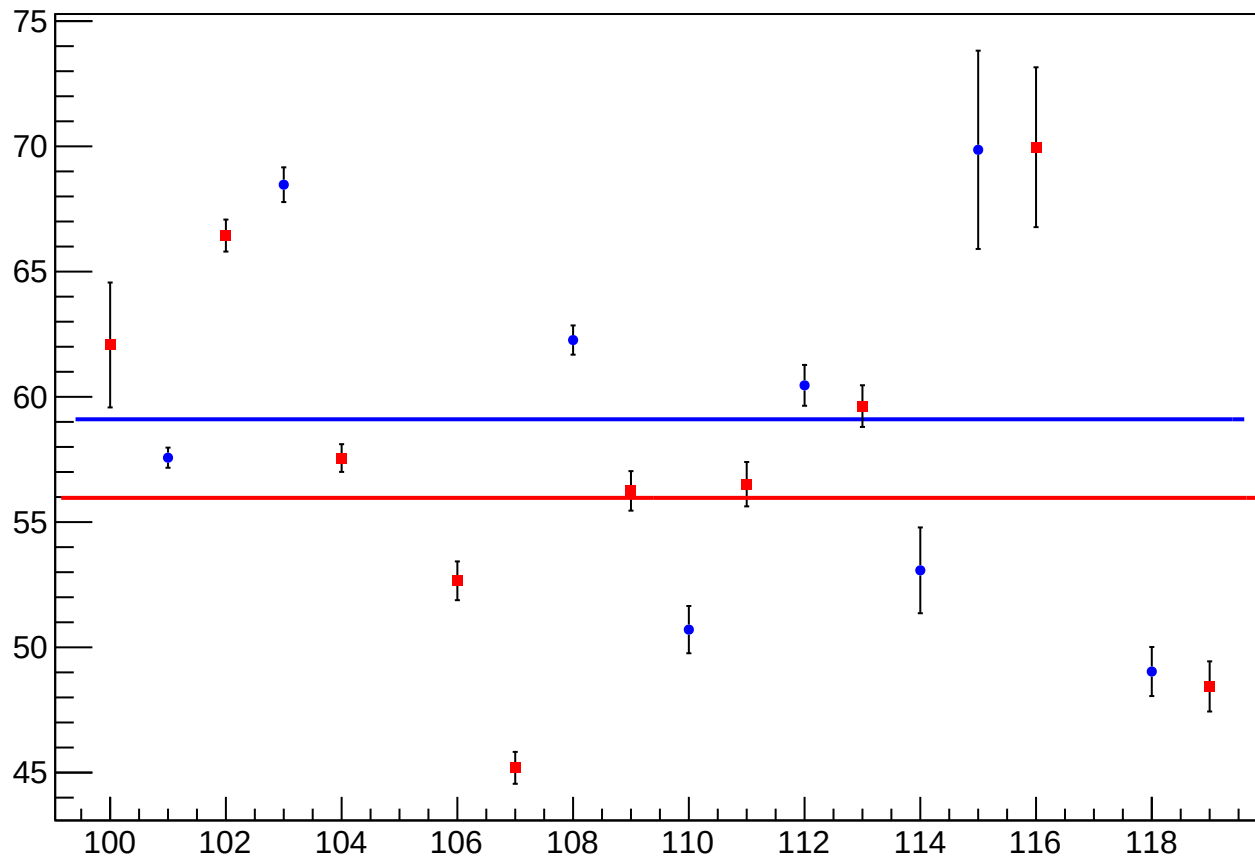
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12.949 $\pm$ 0.166  $\chi^2$ /NDF: 753.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug



Right In: 59.104+/-0.256  $\chi^2/\text{NDF}$ : 434.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.967+/-0.255  $\chi^2/\text{NDF}$ : 683.0/9

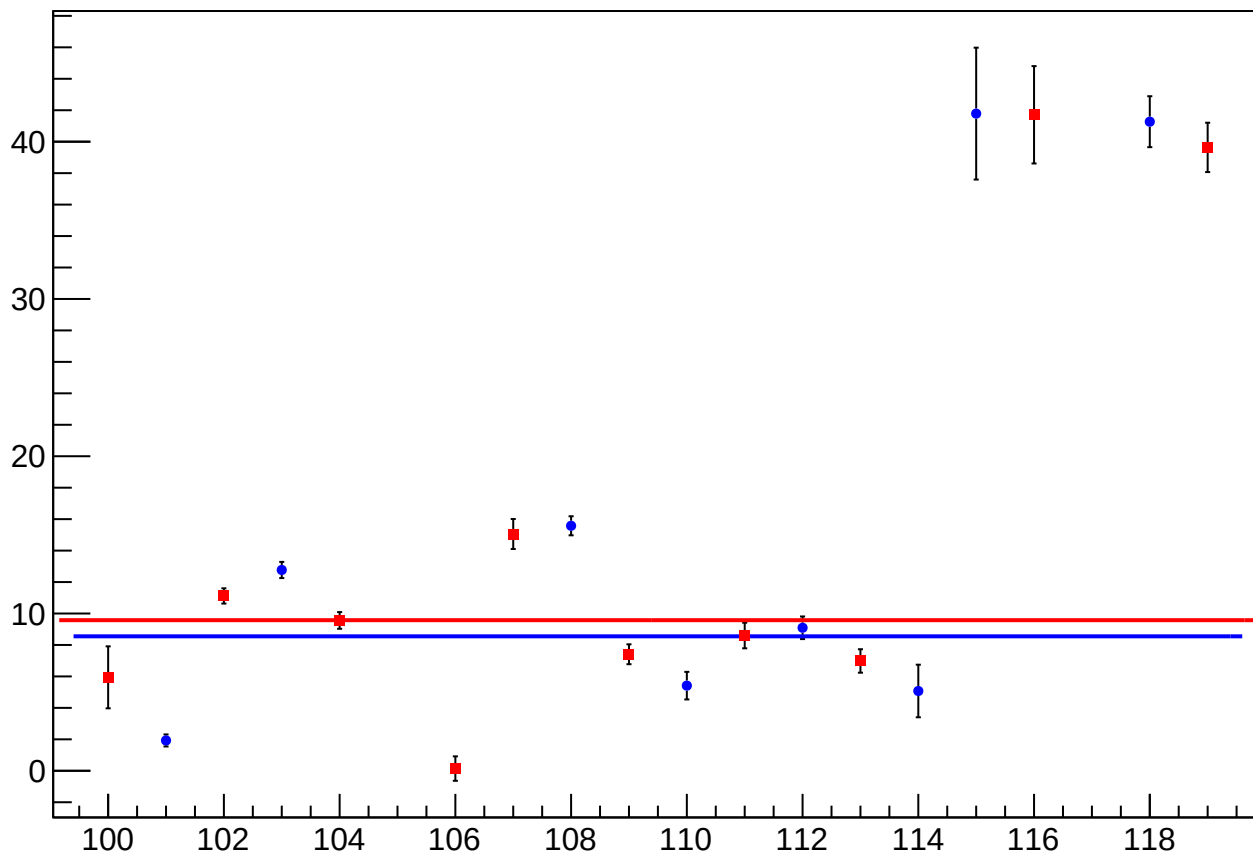
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 57.528+/-0.180  $\chi^2/\text{NDF}$ : 1192.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug



Right In: 8.550+/-0.240  $\chi^2/\text{NDF}$ : 990.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9.576+/-0.242  $\chi^2/\text{NDF}$ : 694.2/9

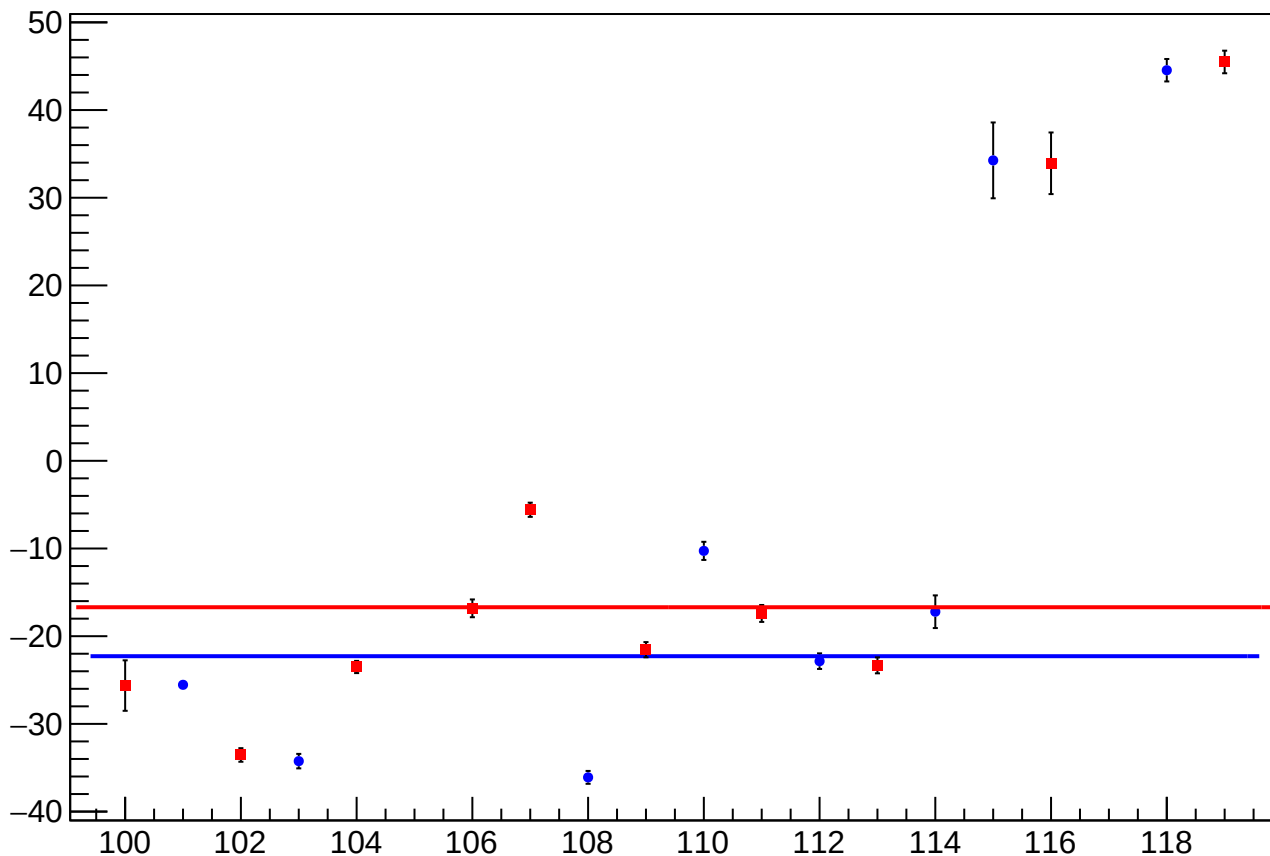
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.059+/-0.170  $\chi^2/\text{NDF}$ : 1693.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug



Right In:  $-22.281 \pm 0.311$   $\chi^2/\text{NDF}$ : 3643.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-16.698 \pm 0.306$   $\chi^2/\text{NDF}$ : 3389.6/9

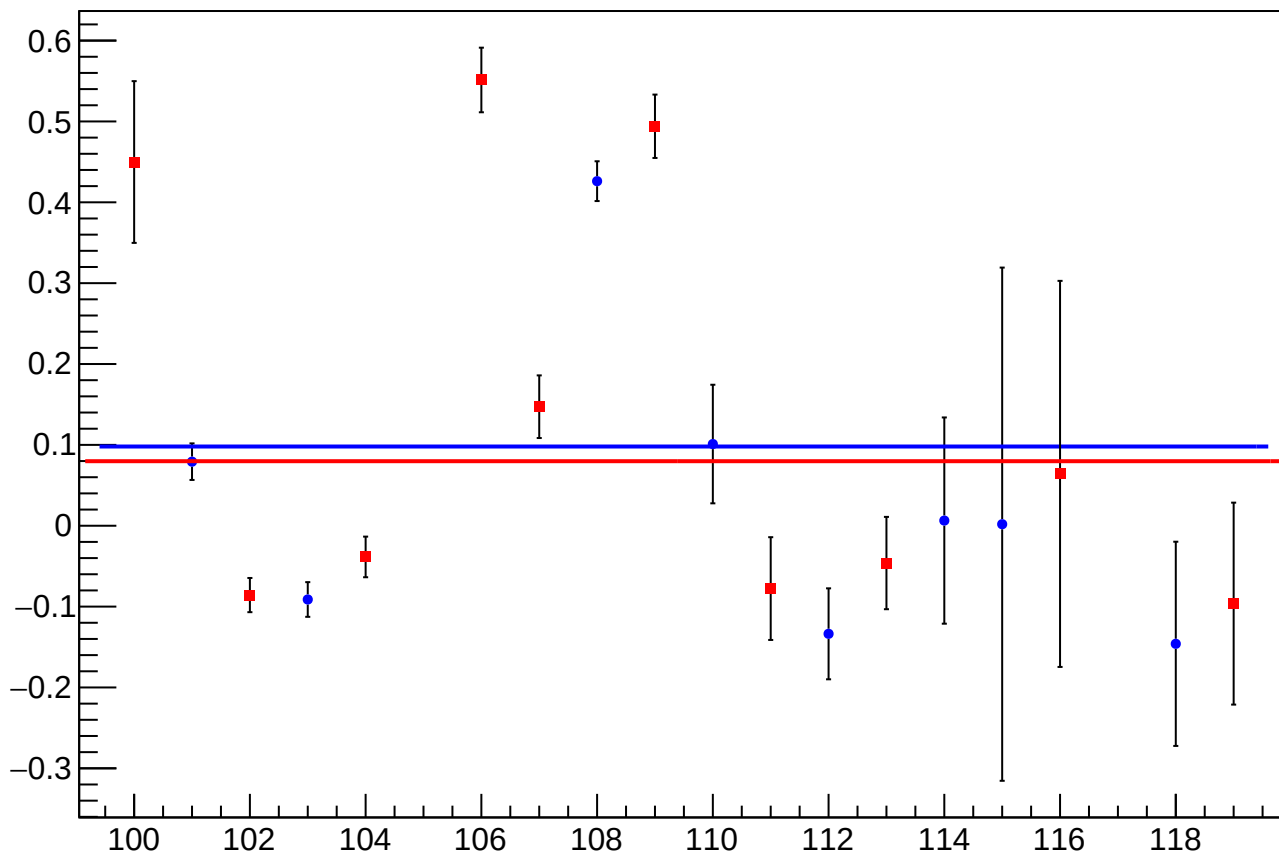
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-19.446 \pm 0.218$   $\chi^2/\text{NDF}$ : 7196.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug



Right In: 0.098 $\pm$ 0.012  $\chi^2$ /NDF: 277.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.080 $\pm$ 0.012  $\chi^2$ /NDF: 364.2/9

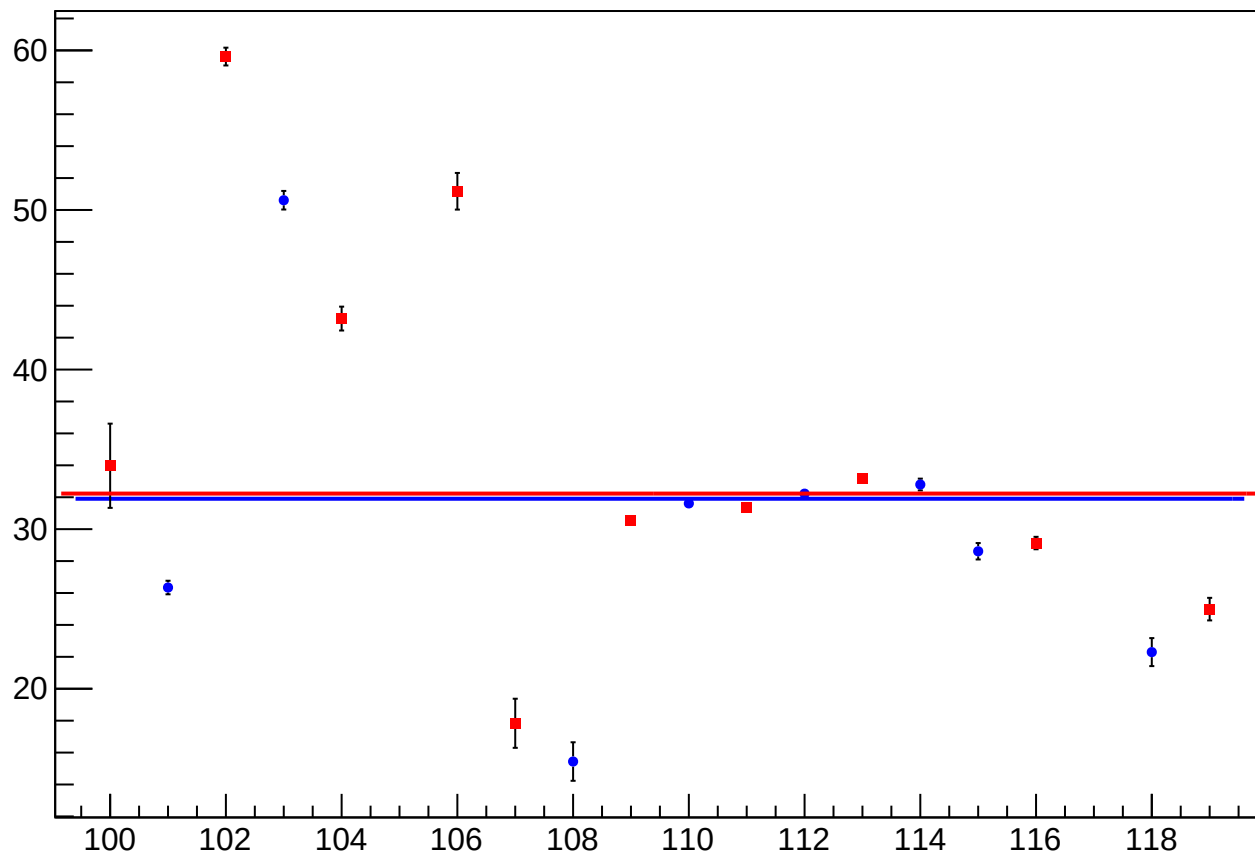
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.089 $\pm$ 0.009  $\chi^2$ /NDF: 643.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug



Right In: 31.905+/-0.108  $\chi^2/\text{NDF}$ : 1562.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 32.229+/-0.088  $\chi^2/\text{NDF}$ : 3347.5/9

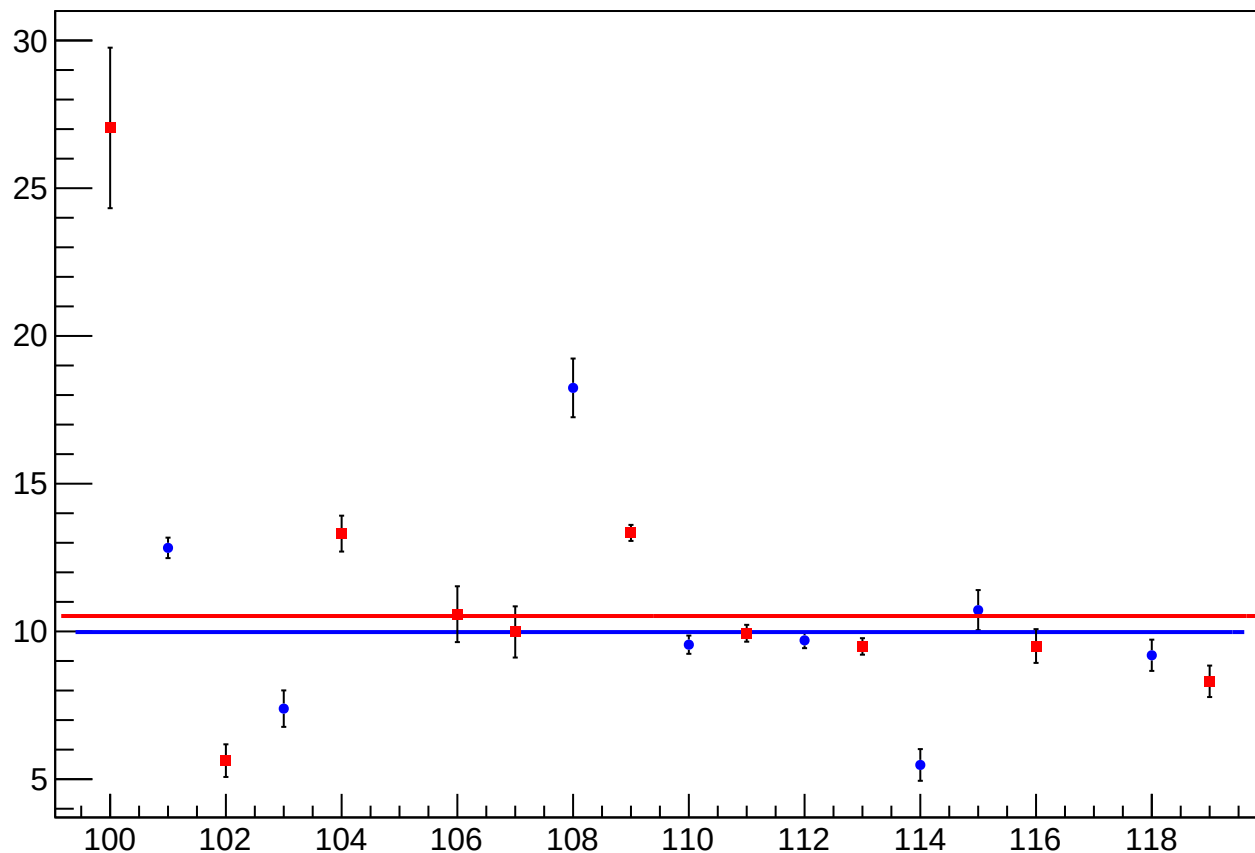
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.100+/-0.068  $\chi^2/\text{NDF}$ : 4915.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug



Right In: 9.978 $\pm$ 0.147  $\chi^2$ /NDF: 231.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.522 $\pm$ 0.136  $\chi^2$ /NDF: 282.6/9

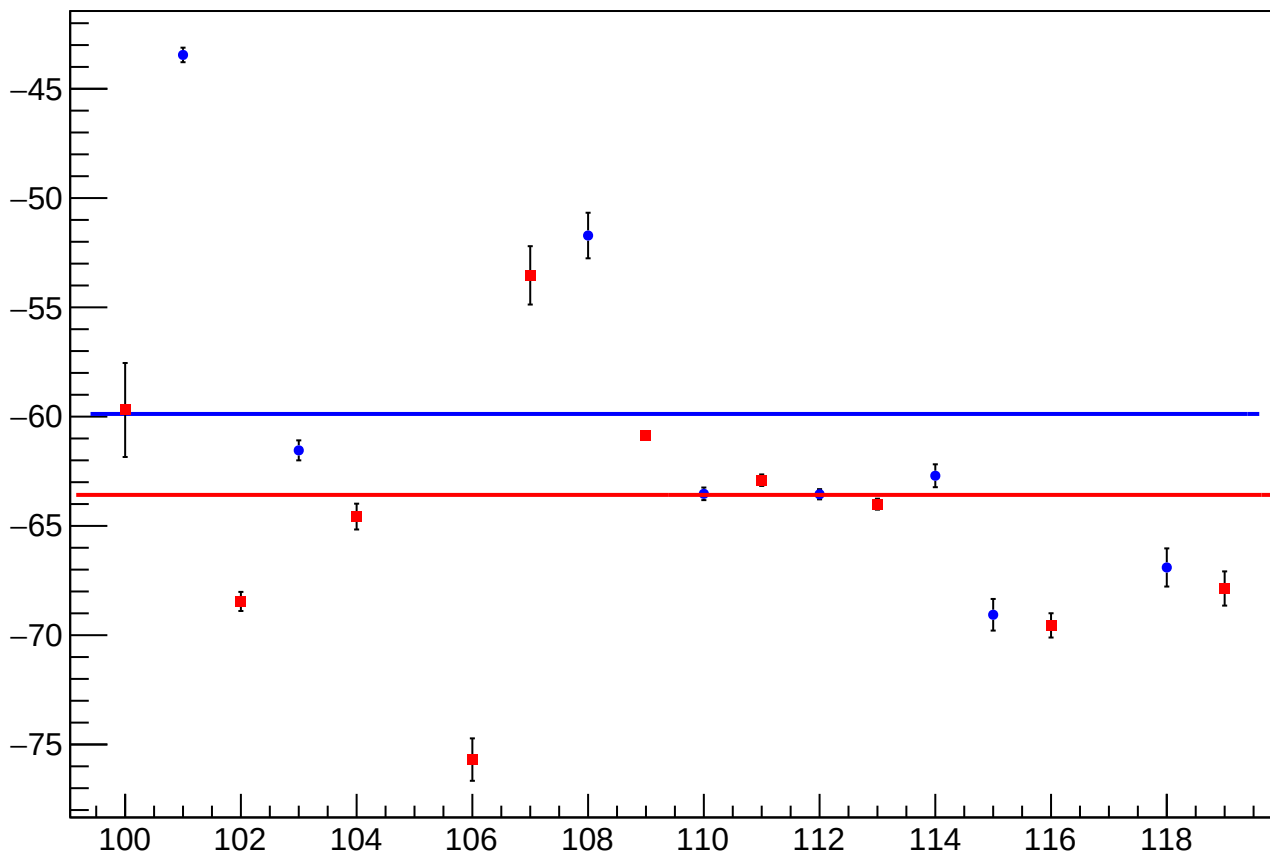
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.272 $\pm$ 0.100  $\chi^2$ /NDF: 521.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug



Right In:  $-59.878 \pm 0.139$   $\chi^2/\text{NDF}$ : 3176.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-63.581 \pm 0.123$   $\chi^2/\text{NDF}$ : 656.4/9

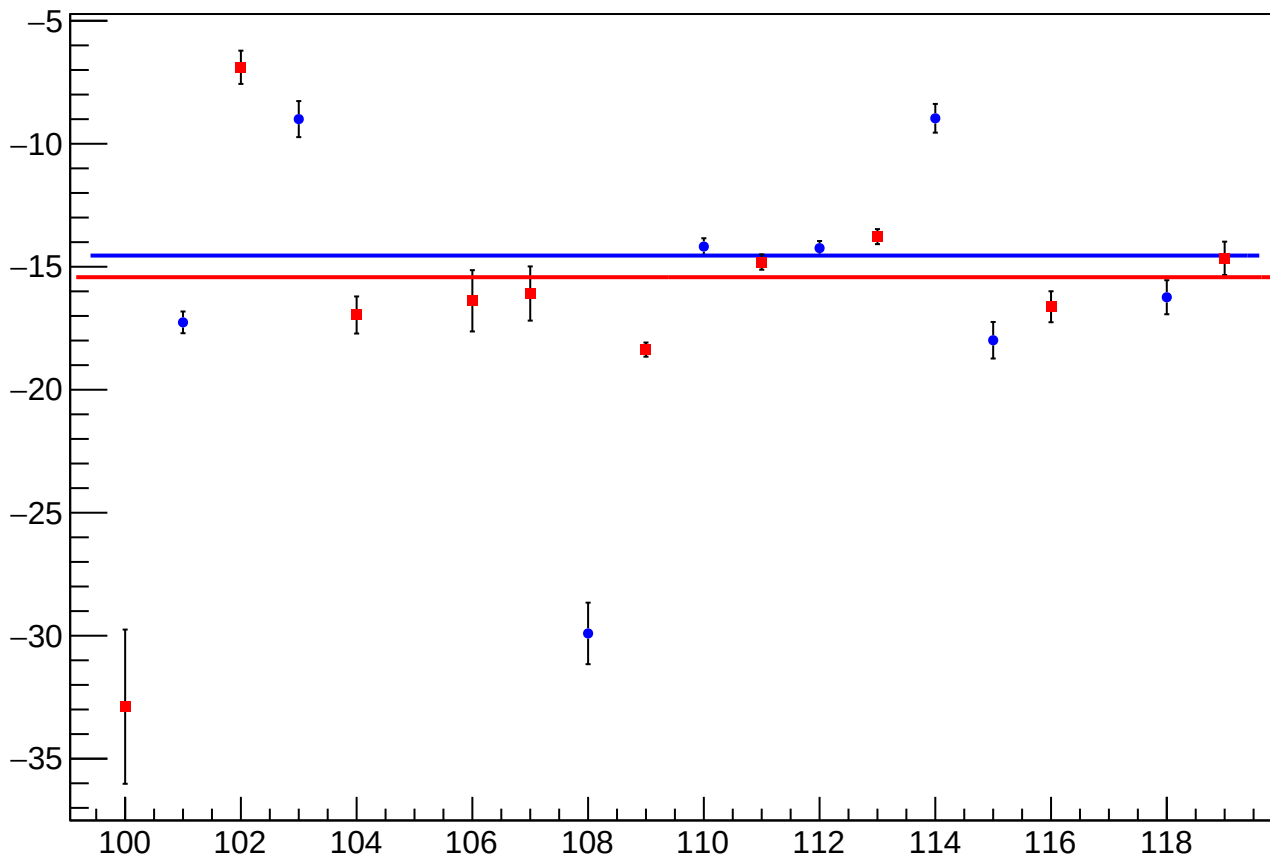
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-61.959 \pm 0.092$   $\chi^2/\text{NDF}$ : 4233.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug



Right In: -14.545+/-0.169  $\chi^2/\text{NDF}$ : 367.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.425+/-0.152  $\chi^2/\text{NDF}$ : 338.7/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

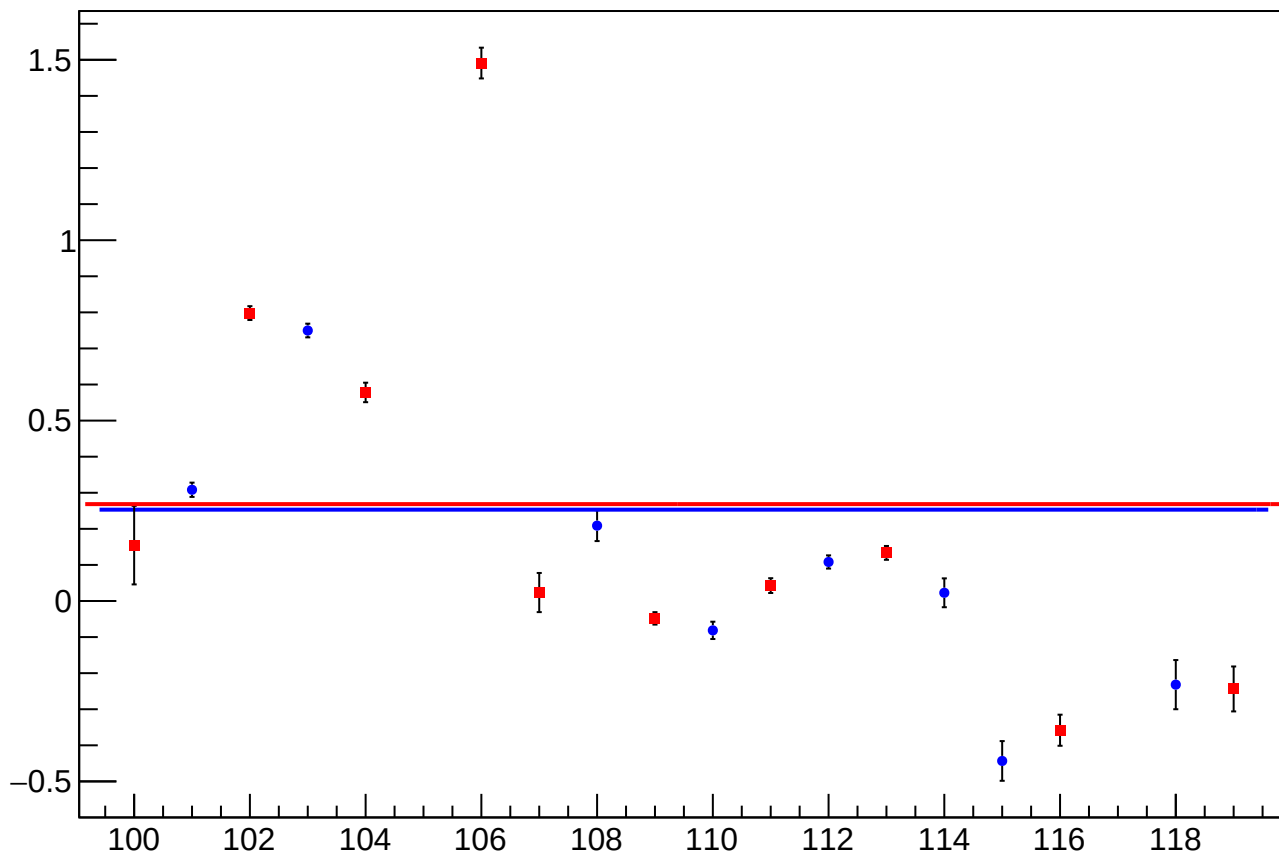
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -15.031+/-0.113  $\chi^2/\text{NDF}$ : 720.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug



Right In: 0.253 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 1193.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.269 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 2524.4/9

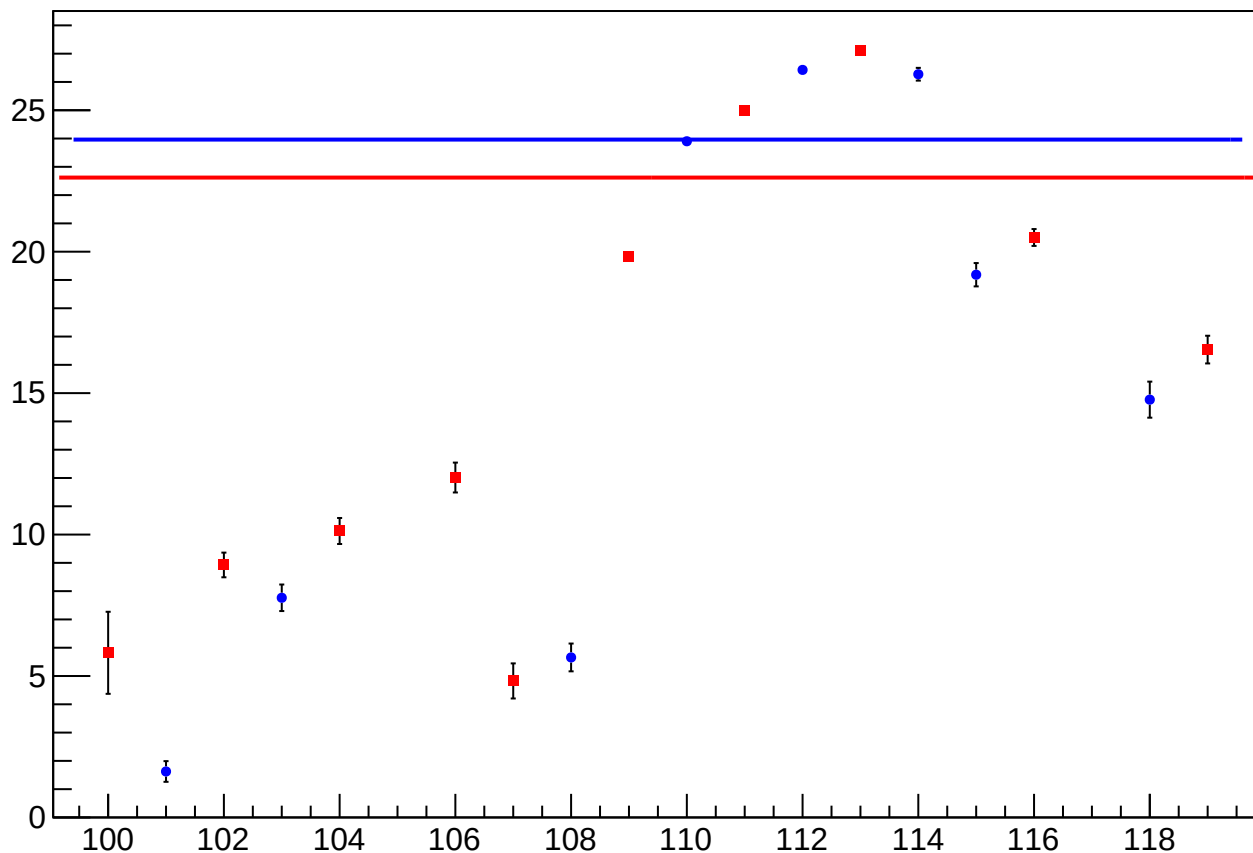
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.262 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 3719.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug



Right In: 23.963 $\pm$ 0.061  $\chi^2$ /NDF: 7566.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 22.620 $\pm$ 0.048  $\chi^2$ /NDF: 7358.0/9

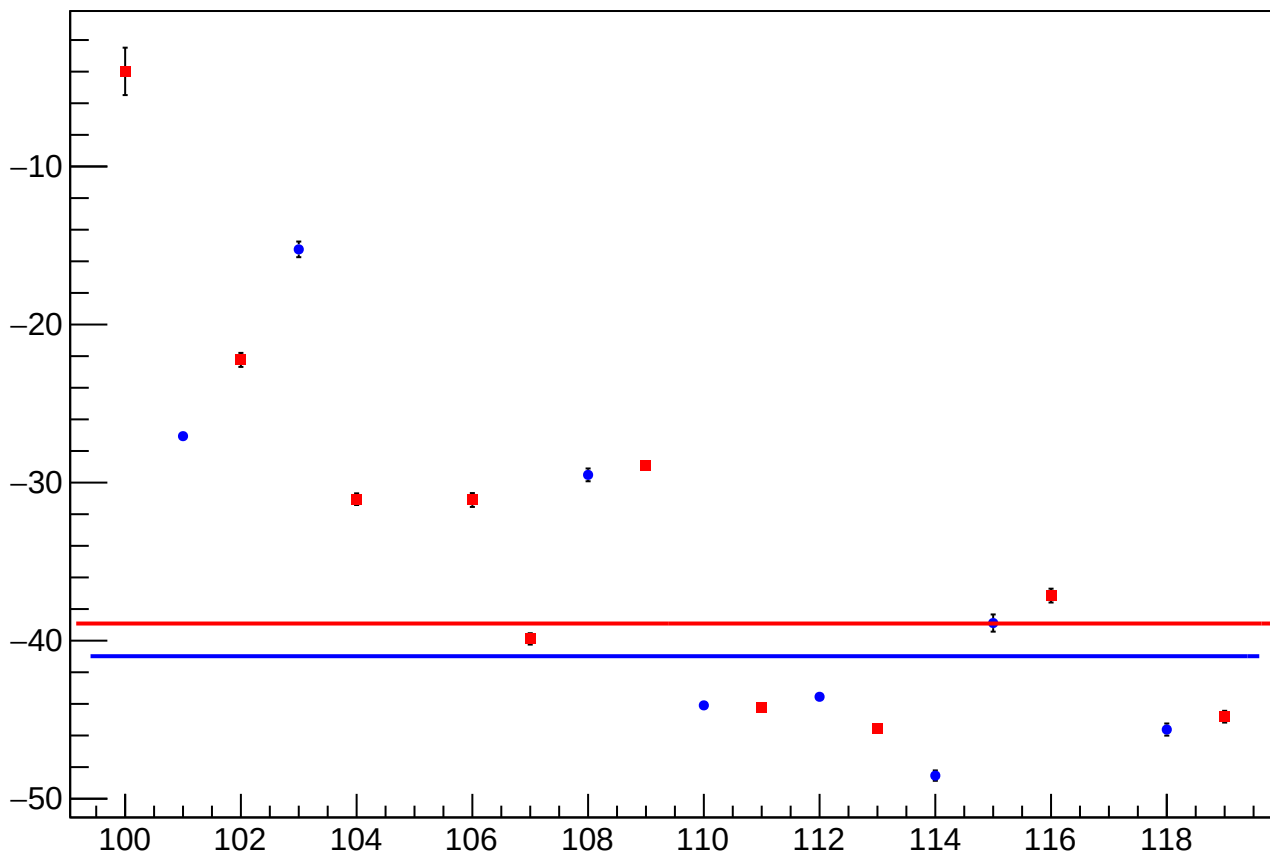
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.134 $\pm$ 0.038  $\chi^2$ /NDF: 15220.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug



Right In:  $-40.983 \pm 0.089$   $\chi^2/\text{NDF}$ : 7062.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-38.916 \pm 0.079$   $\chi^2/\text{NDF}$ : 9673.4/9

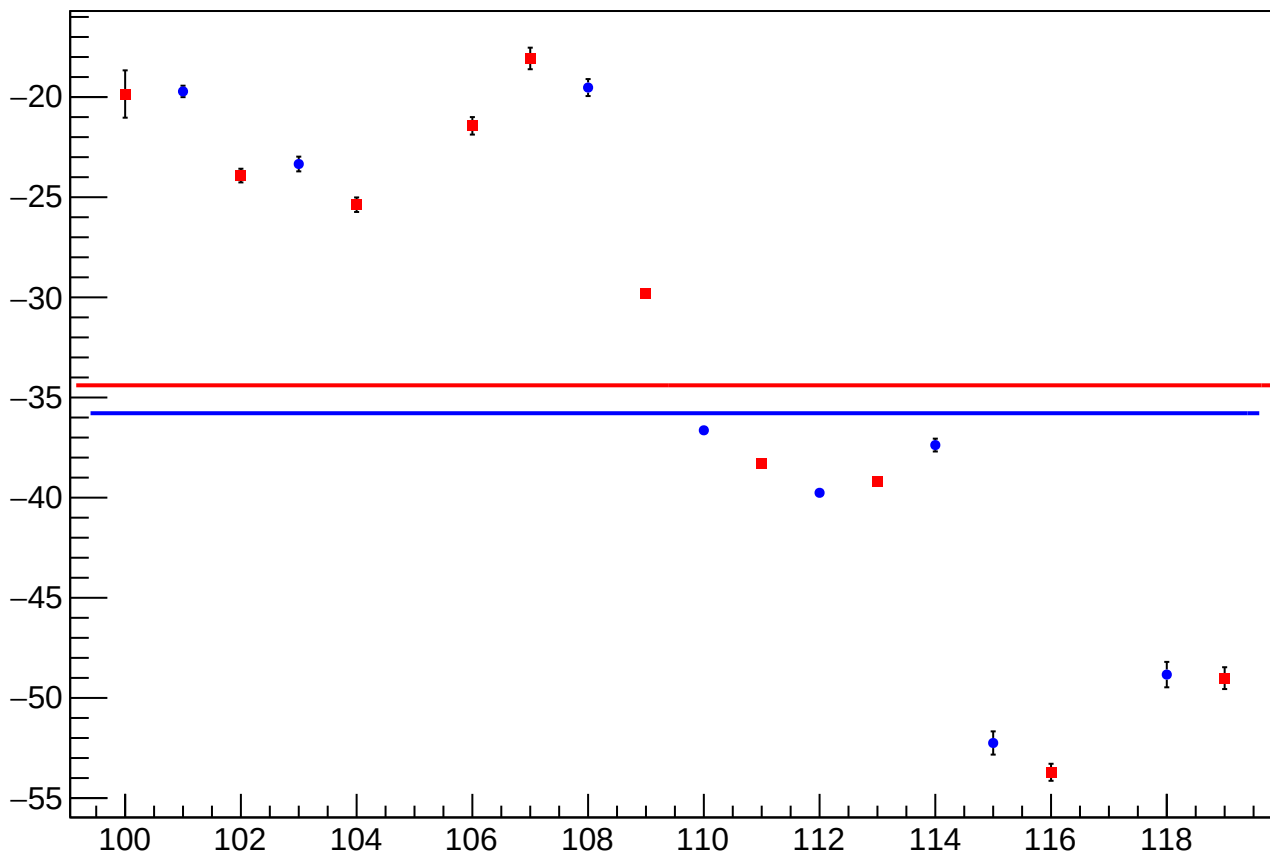
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-39.820 \pm 0.059$   $\chi^2/\text{NDF}$ : 17038.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug



Right In:  $-35.785 \pm 0.083$   $\chi^2/\text{NDF}: 8028.0/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-34.392 \pm 0.069$   $\chi^2/\text{NDF}: 9794.5/9$

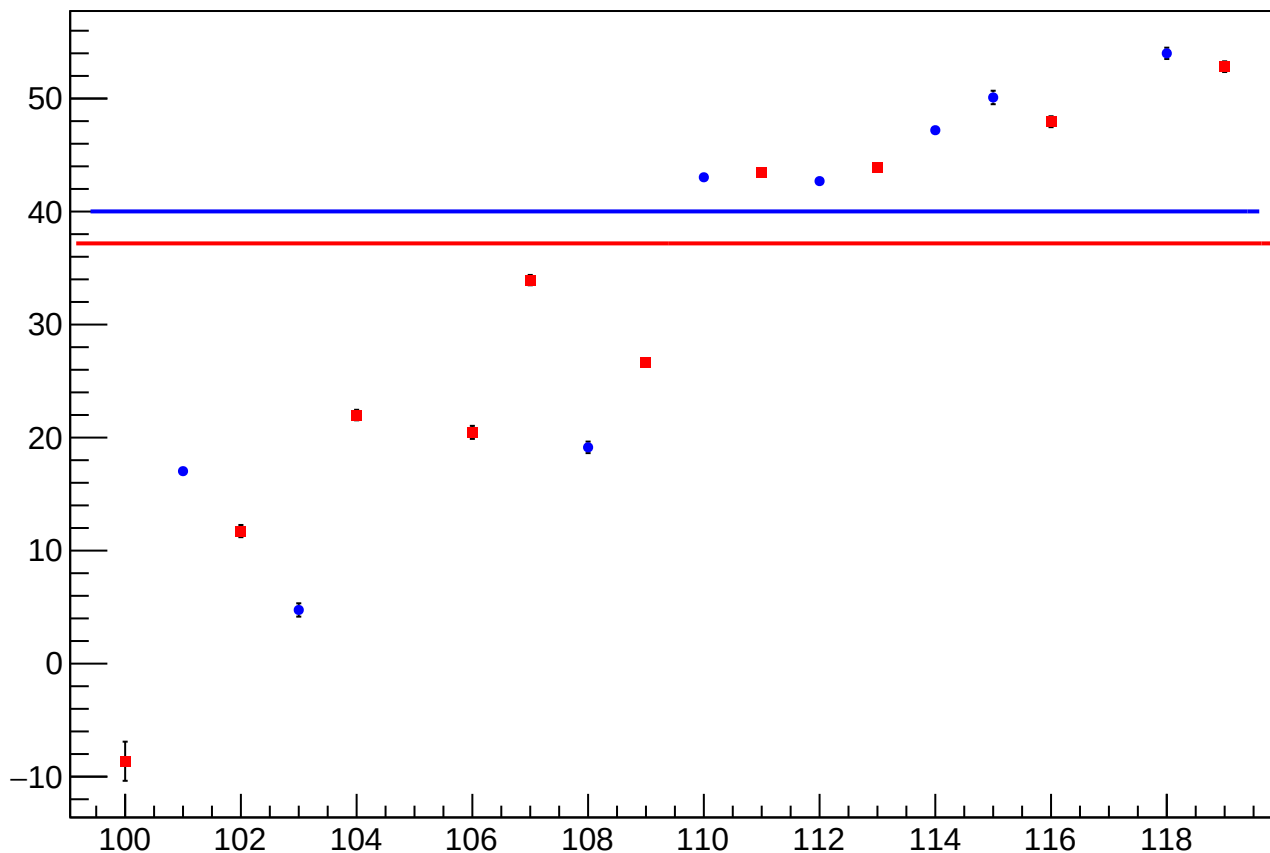
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-34.959 \pm 0.053$   $\chi^2/\text{NDF}: 17989.5/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug



Right In: 40.012 $\pm$ 0.100  $\chi^2$ /NDF: 10969.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 37.182 $\pm$ 0.087  $\chi^2$ /NDF: 13323.2/9

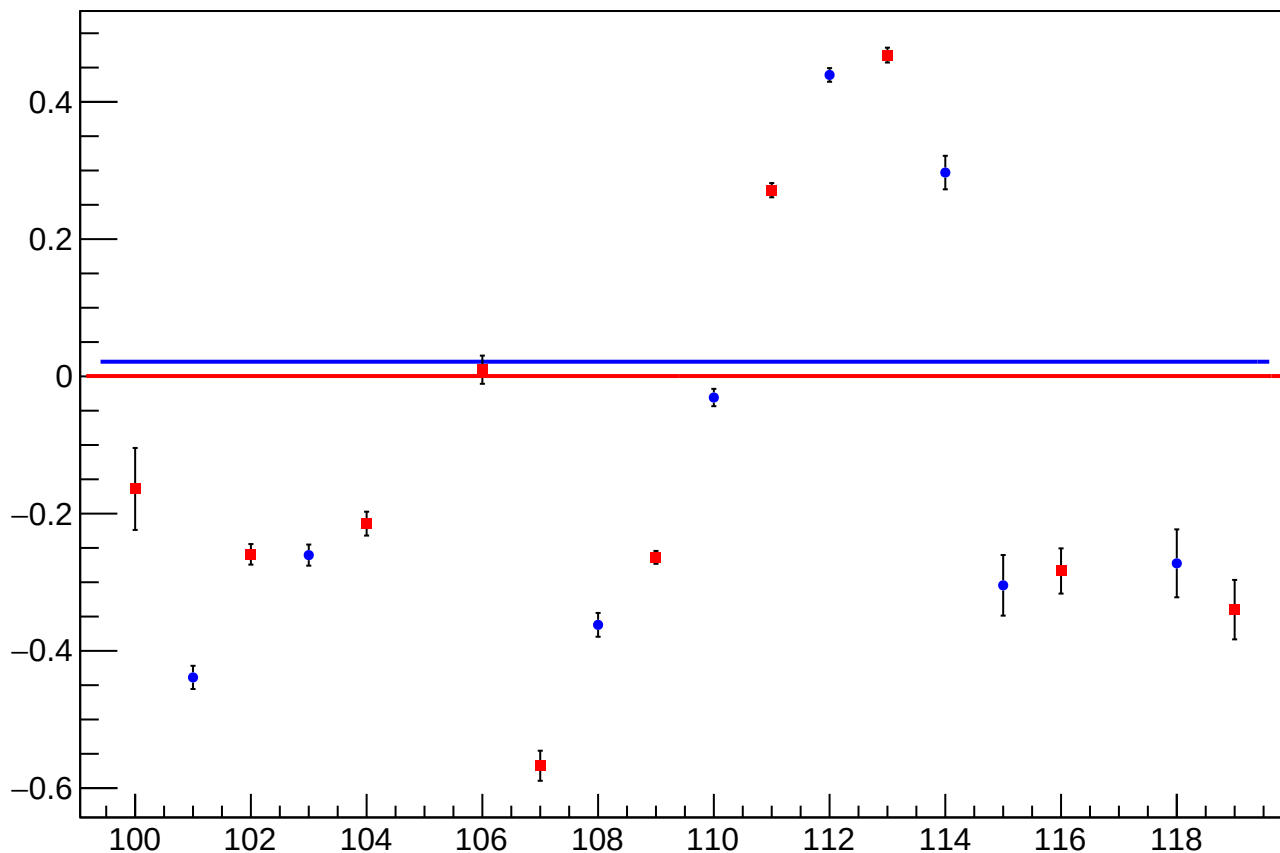
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 38.396 $\pm$ 0.066  $\chi^2$ /NDF: 24747.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug



Right In: 0.021+/-0.006  $\chi^2/\text{NDF}$ : 3562.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.005  $\chi^2/\text{NDF}$ : 4607.6/9

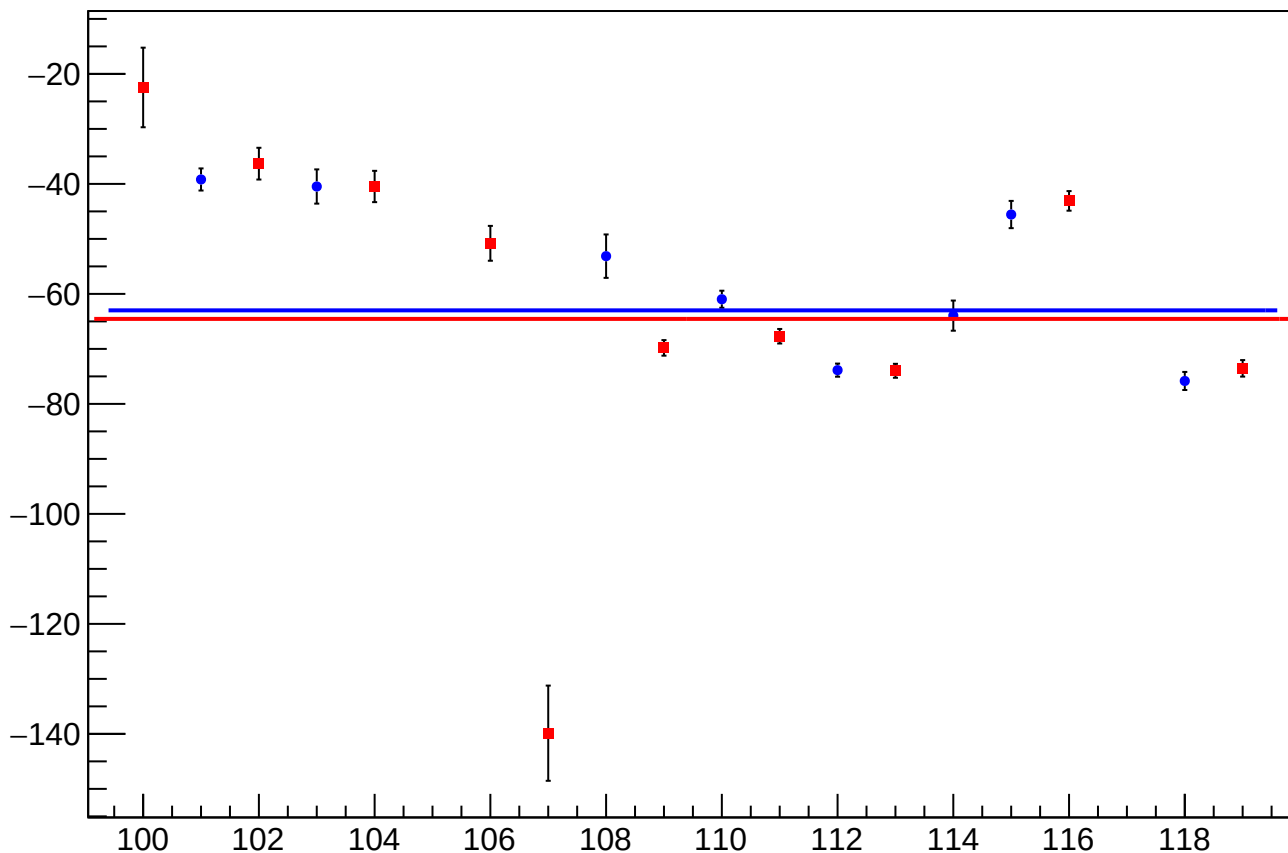
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.004  $\chi^2/\text{NDF}$ : 8177.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug



Right In:  $-62.992 \pm 0.674$   $\chi^2/\text{NDF}$ : 394.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-64.548 \pm 0.595$   $\chi^2/\text{NDF}$ : 551.3/9

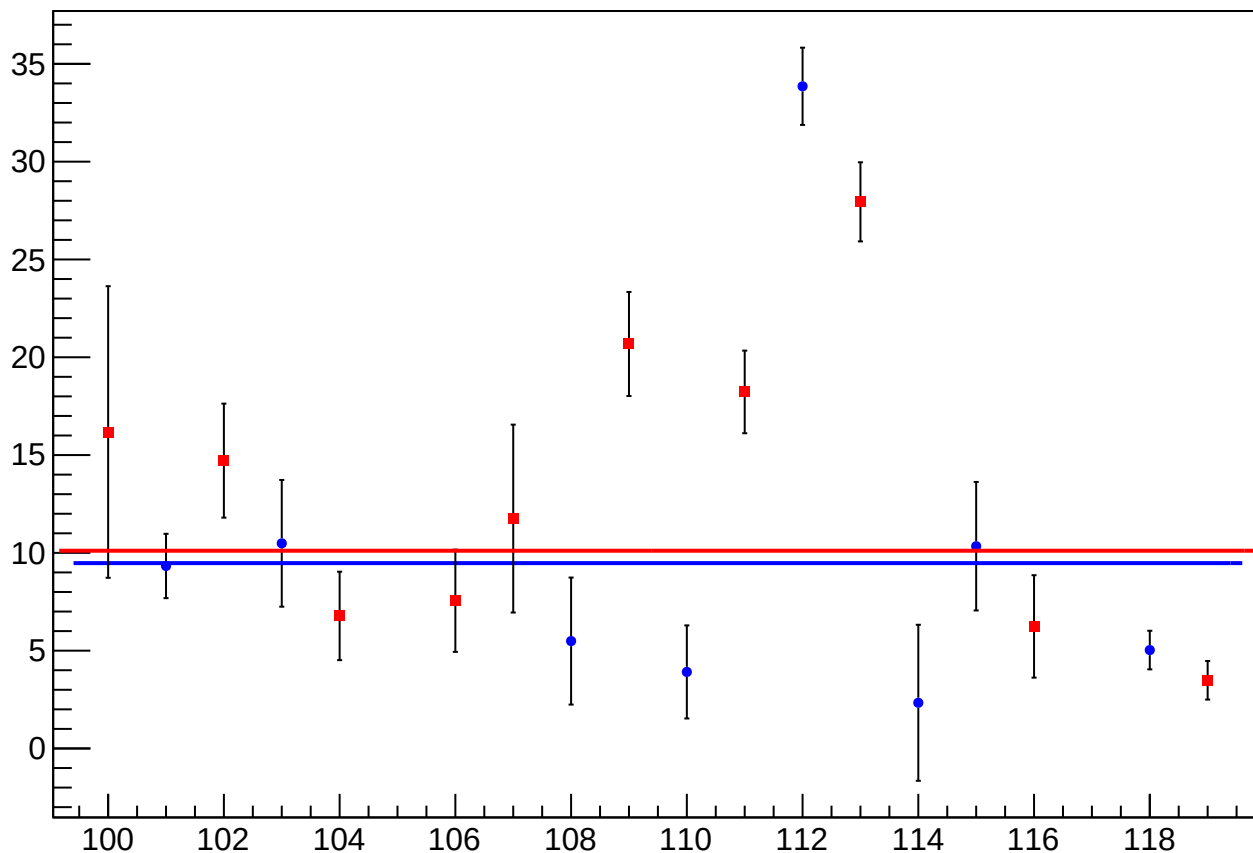
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-63.867 \pm 0.446$   $\chi^2/\text{NDF}$ : 948.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug



Right In: 9.476+/-0.678  $\chi^2/\text{NDF}$ : 183.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.109+/-0.659  $\chi^2/\text{NDF}$ : 162.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

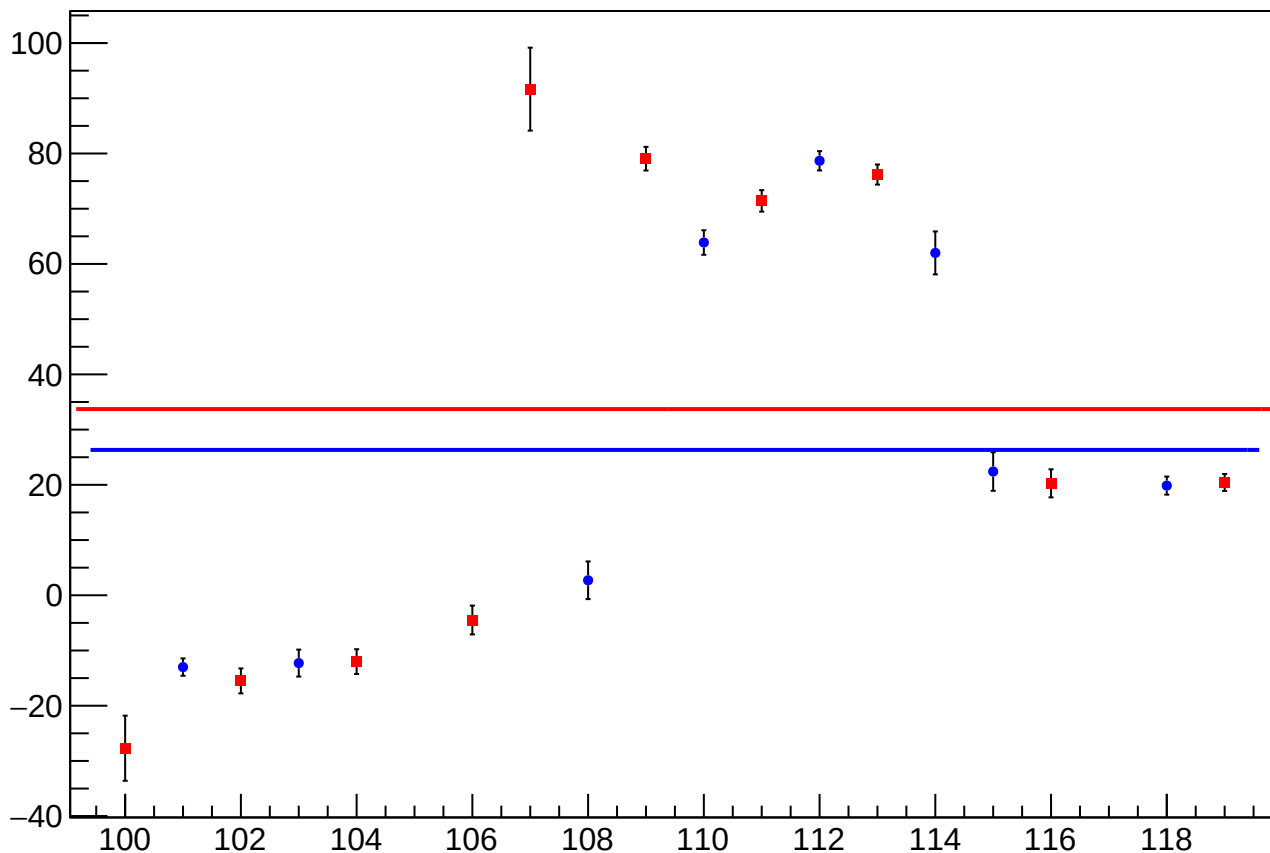
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.802+/-0.472  $\chi^2/\text{NDF}$ : 345.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug



Right In: 26.323+/-0.765  $\chi^2/\text{NDF}$ : 2208.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 33.716+/-0.716  $\chi^2/\text{NDF}$ : 2746.3/9

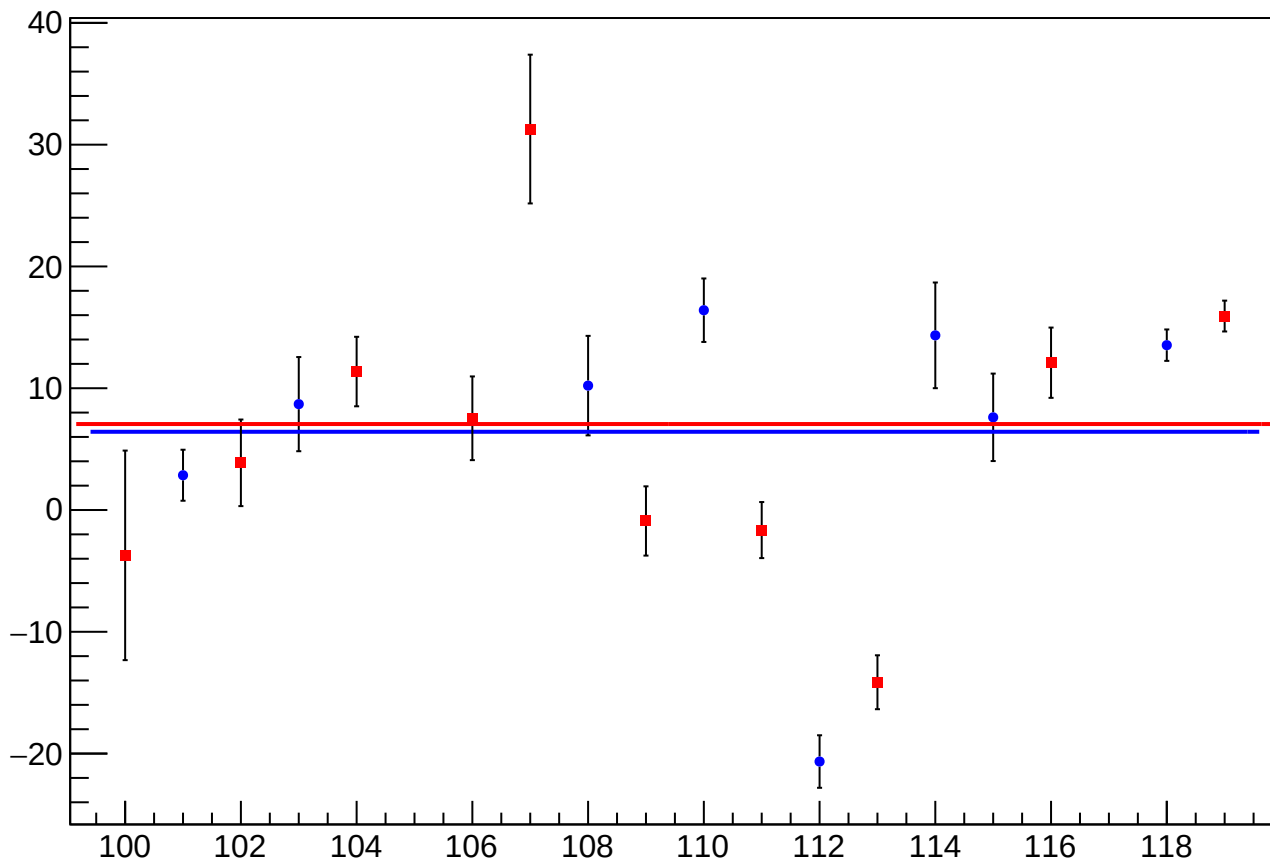
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.265+/-0.523  $\chi^2/\text{NDF}$ : 5004.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug



Right In: 6.424+/-0.831  $\chi^2/\text{NDF}$ : 210.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.060+/-0.794  $\chi^2/\text{NDF}$ : 186.3/9

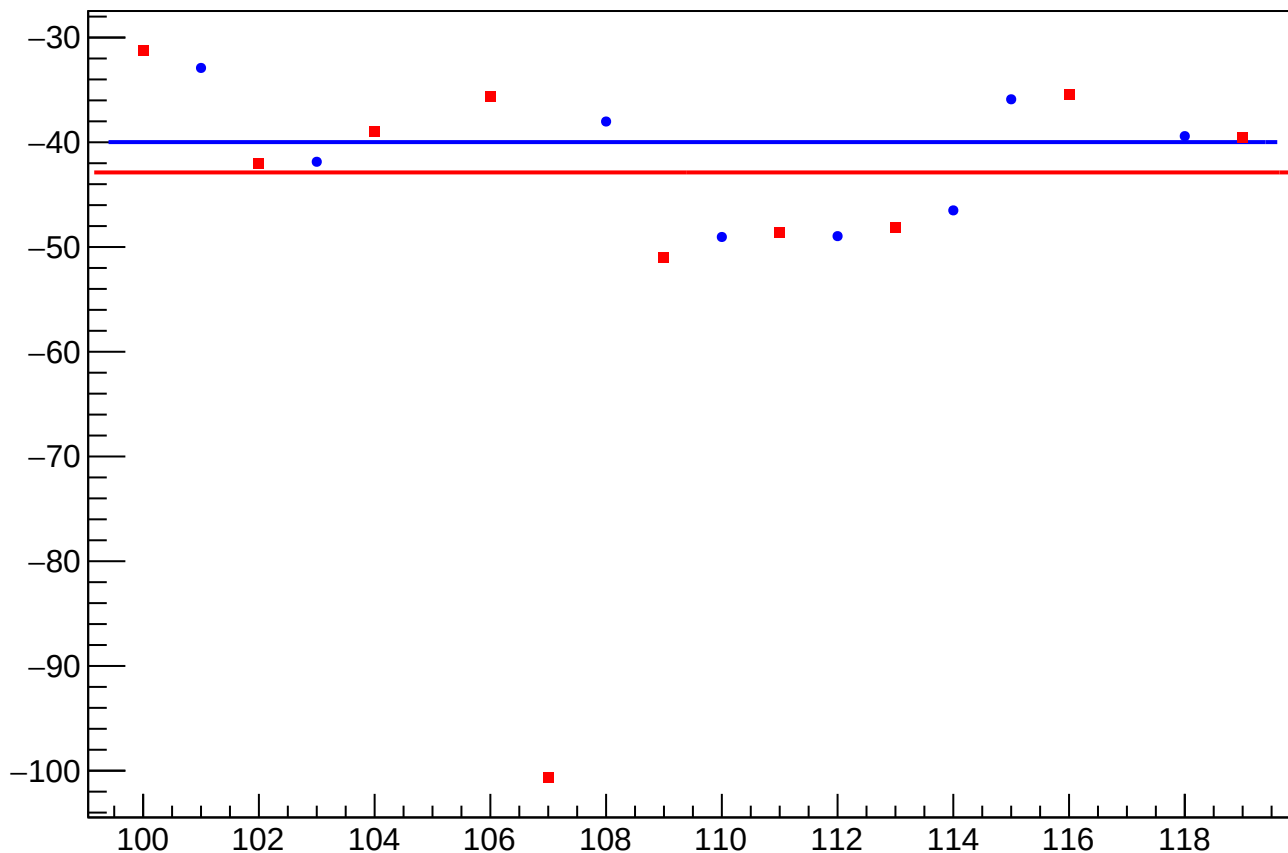
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.757+/-0.574  $\chi^2/\text{NDF}$ : 396.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug



Right In:  $-39.983 \pm 0.048$   $\chi^2/\text{NDF}$ : 13714.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-42.878 \pm 0.044$   $\chi^2/\text{NDF}$ : 49992.6/9

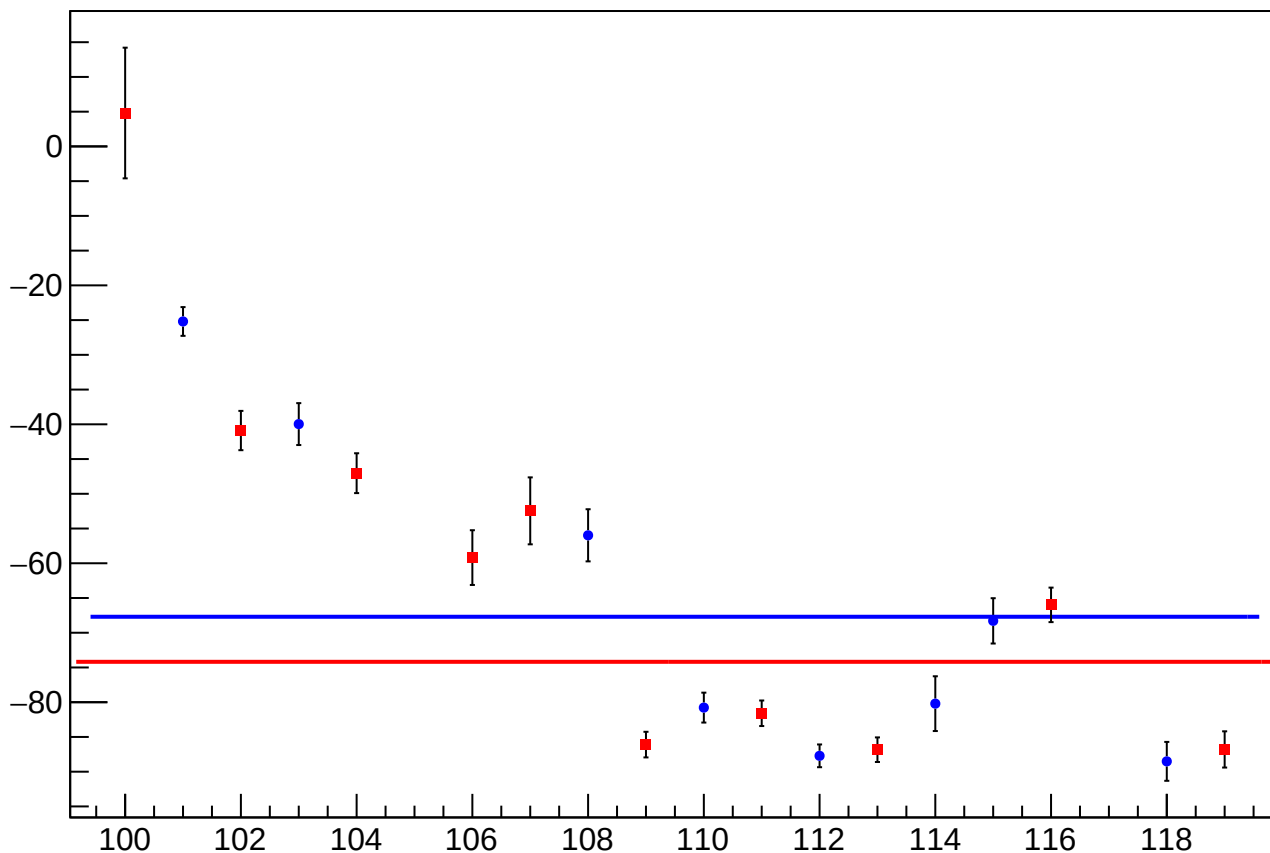
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-41.546 \pm 0.033$   $\chi^2/\text{NDF}$ : 65657.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug



Right In:  $-67.699 \pm 0.881$   $\chi^2/\text{NDF}$ : 768.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-74.185 \pm 0.795$   $\chi^2/\text{NDF}$ : 476.9/9

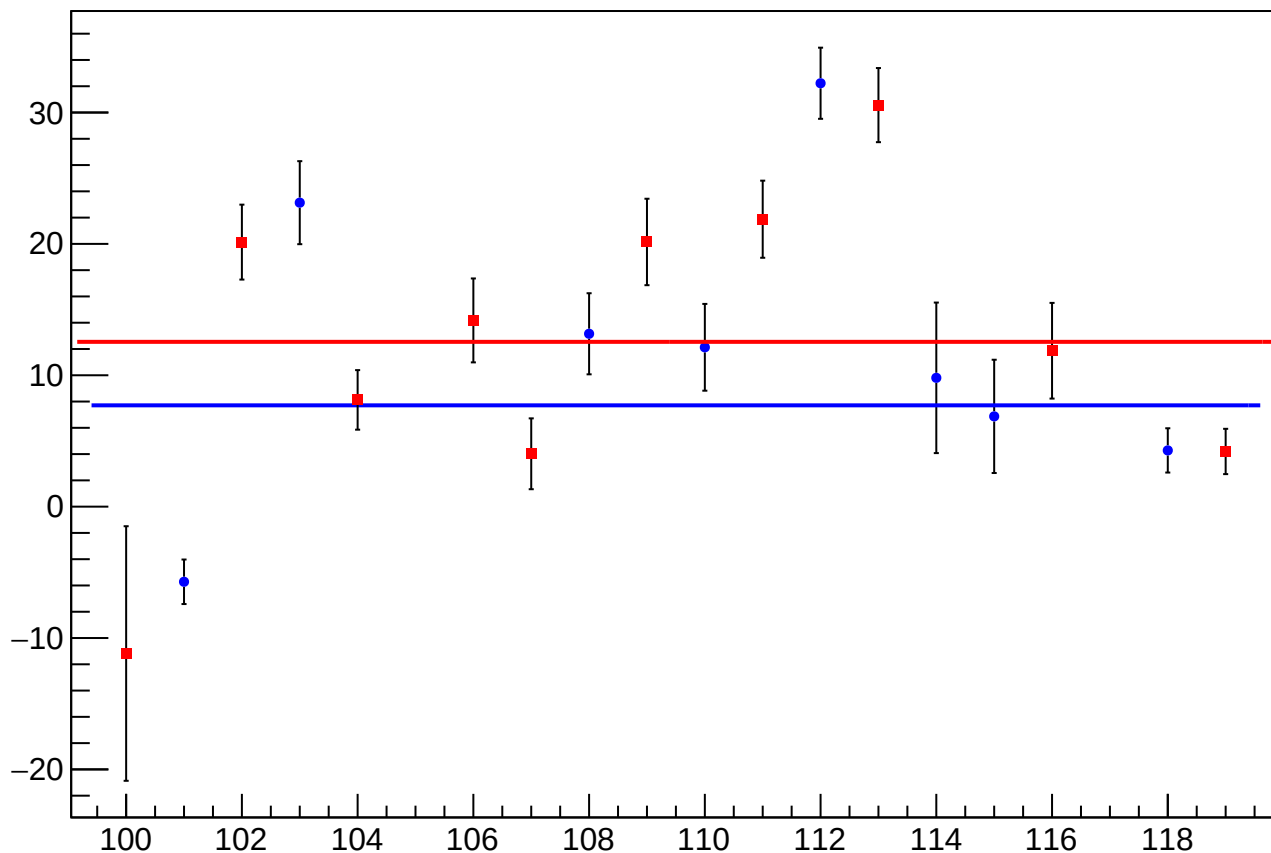
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-71.274 \pm 0.590$   $\chi^2/\text{NDF}$ : 1274.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug



Right In: 7.711 $\pm$ 0.906  $\chi^2$ /NDF: 177.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 12.544 $\pm$ 0.874  $\chi^2$ /NDF: 106.8/9

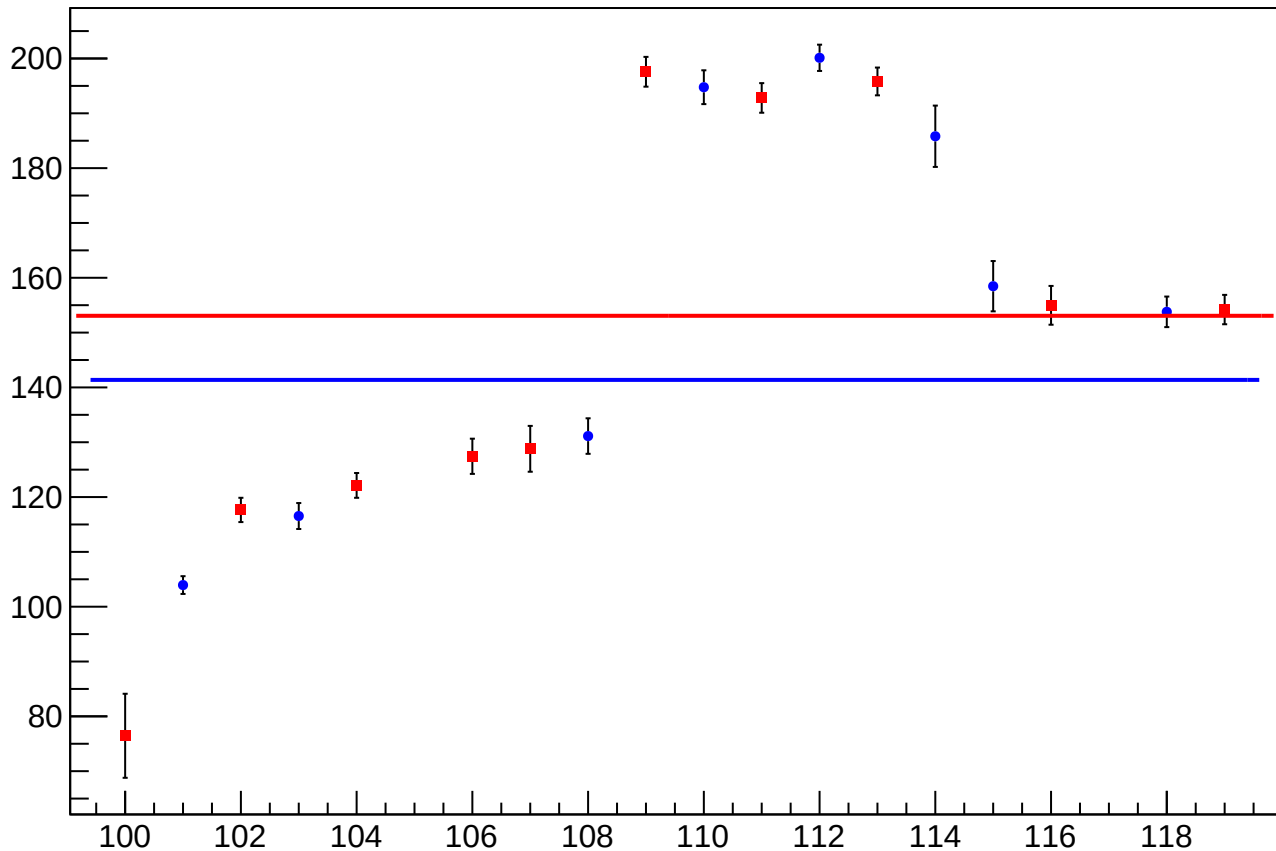
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.216 $\pm$ 0.629  $\chi^2$ /NDF: 299.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug



Right In: 141.372 $\pm$ 0.936  $\chi^2$ /NDF: 1651.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 153.065 $\pm$ 0.906  $\chi^2$ /NDF: 1409.9/9

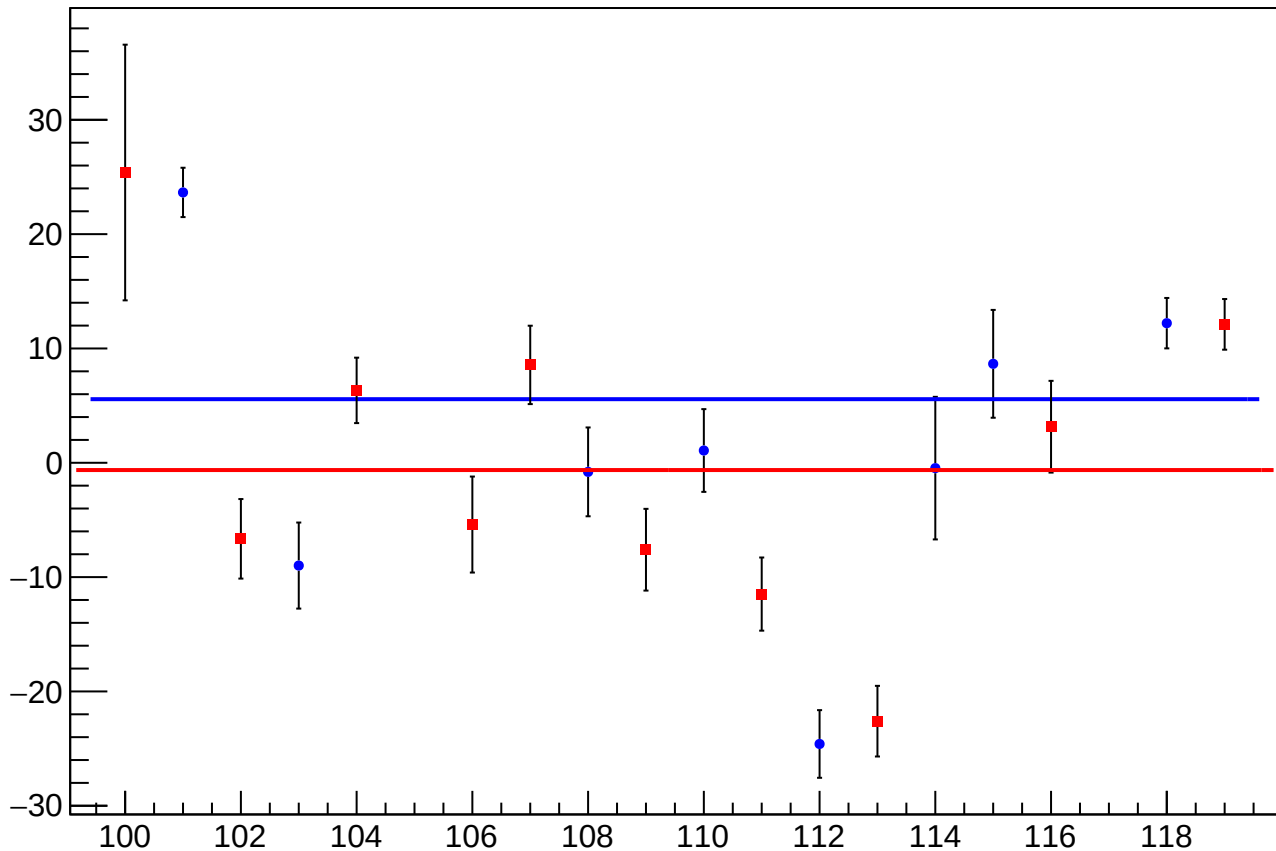
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 147.406 $\pm$ 0.651  $\chi^2$ /NDF: 3141.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug



Right In: 5.564 $\pm$ 1.105  $\chi^2$ /NDF: 203.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.635 $\pm$ 1.053  $\chi^2$ /NDF: 122.6/9

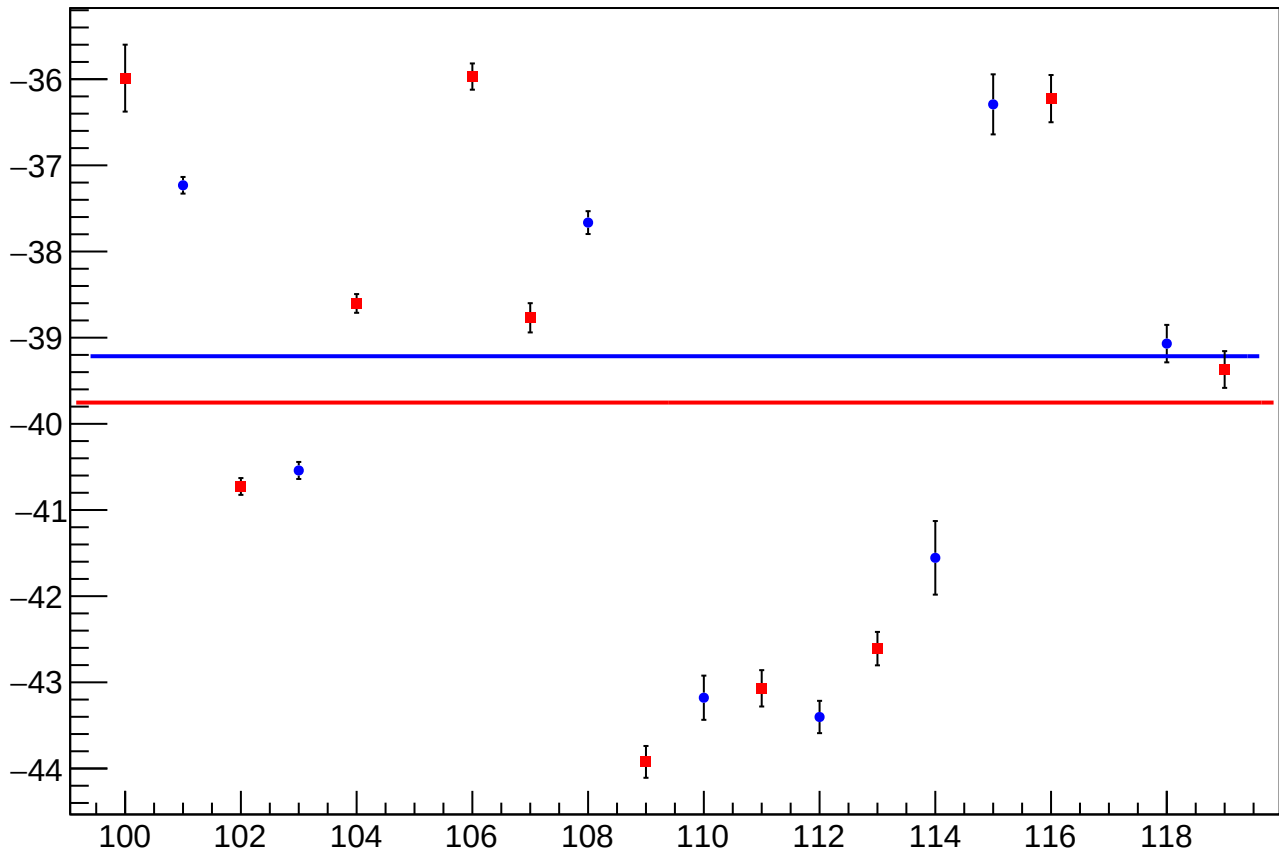
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.316 $\pm$ 0.763  $\chi^2$ /NDF: 342.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug



Right In:  $-39.215 \pm 0.054$   $\chi^2/\text{NDF}$ : 1576.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-39.753 \pm 0.051$   $\chi^2/\text{NDF}$ : 2098.6/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

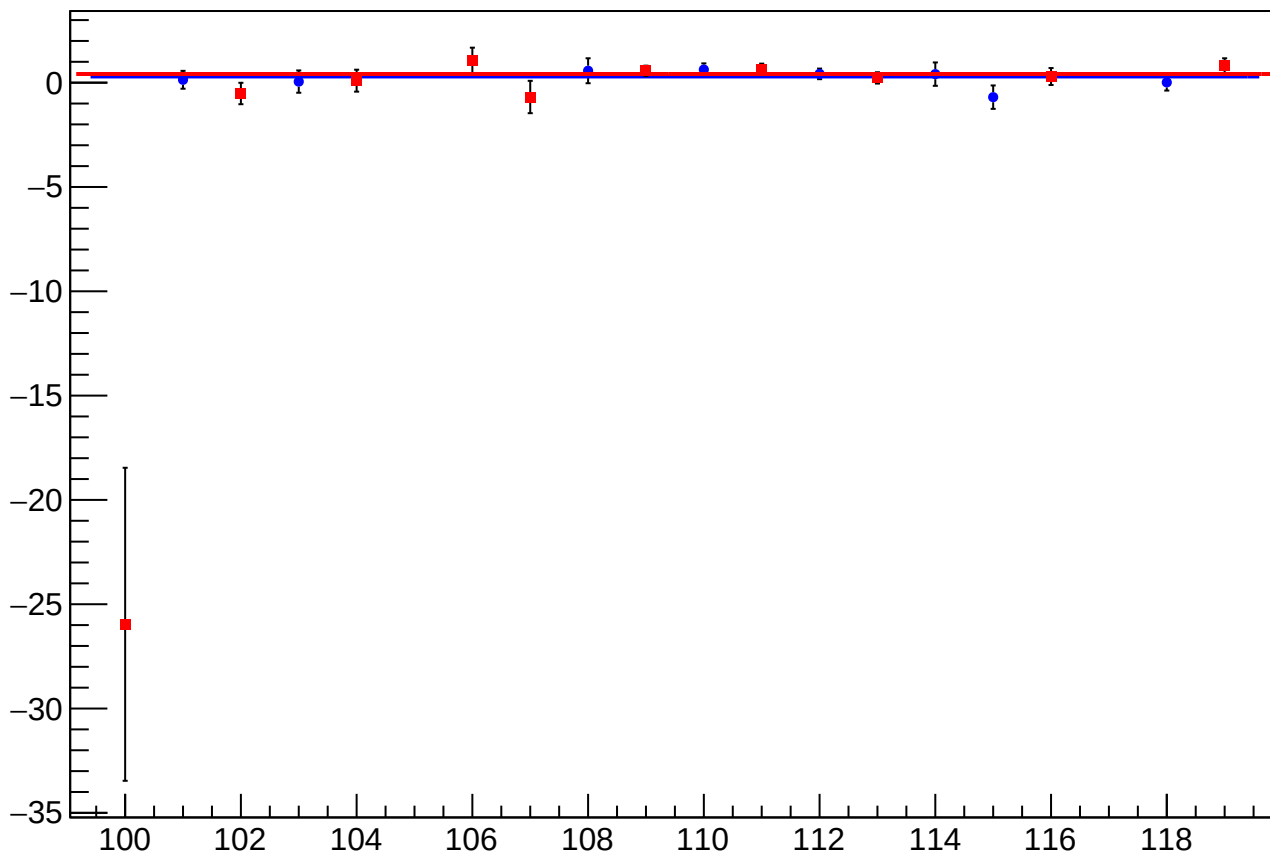
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-39.500 \pm 0.037$   $\chi^2/\text{NDF}$ : 3728.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug



Right In: 0.298 $\pm$ 0.139  $\chi^2$ /NDF: 5.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.416 $\pm$ 0.120  $\chi^2$ /NDF: 22.0/9

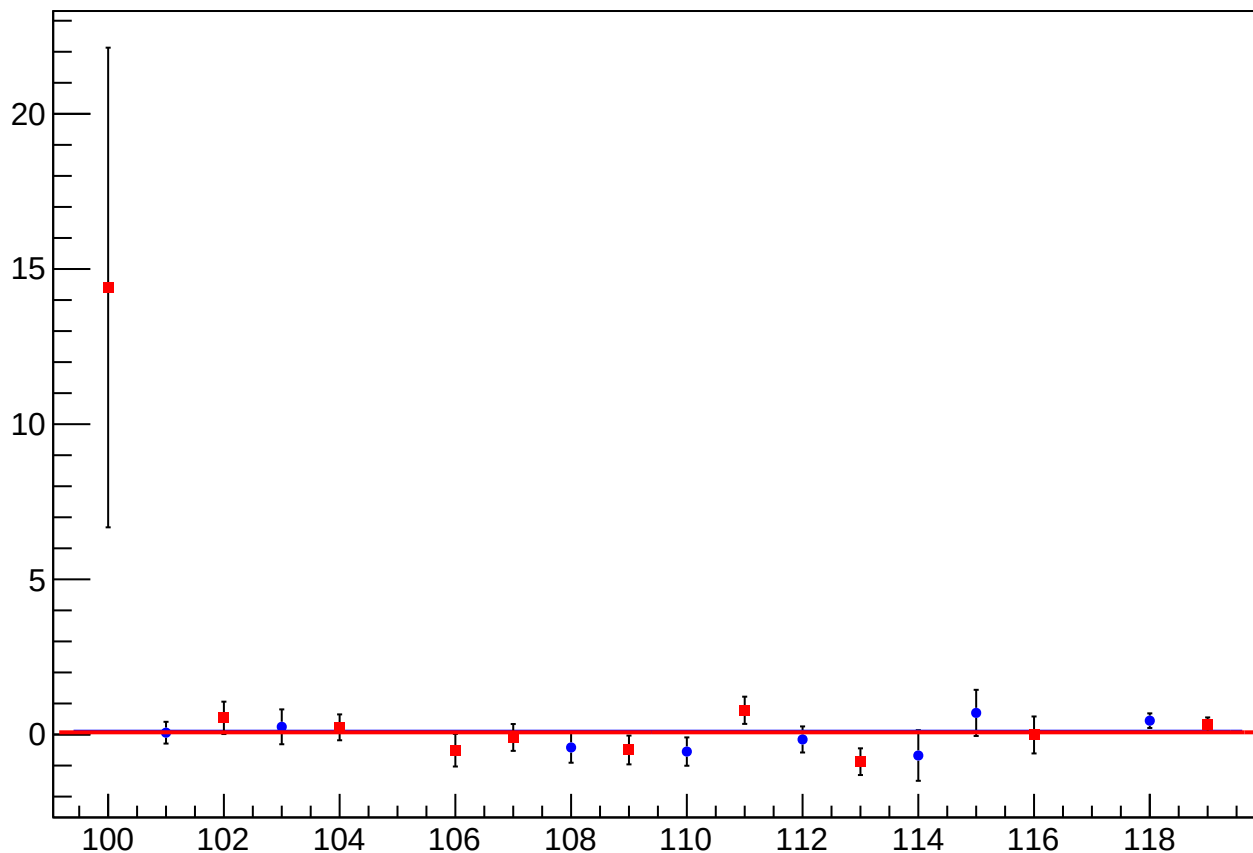
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.366 $\pm$ 0.091  $\chi^2$ /NDF: 28.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug



Right In: 0.091+/-0.146  $\chi^2/\text{NDF}$ : 7.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.071+/-0.135  $\chi^2/\text{NDF}$ : 15.8/9

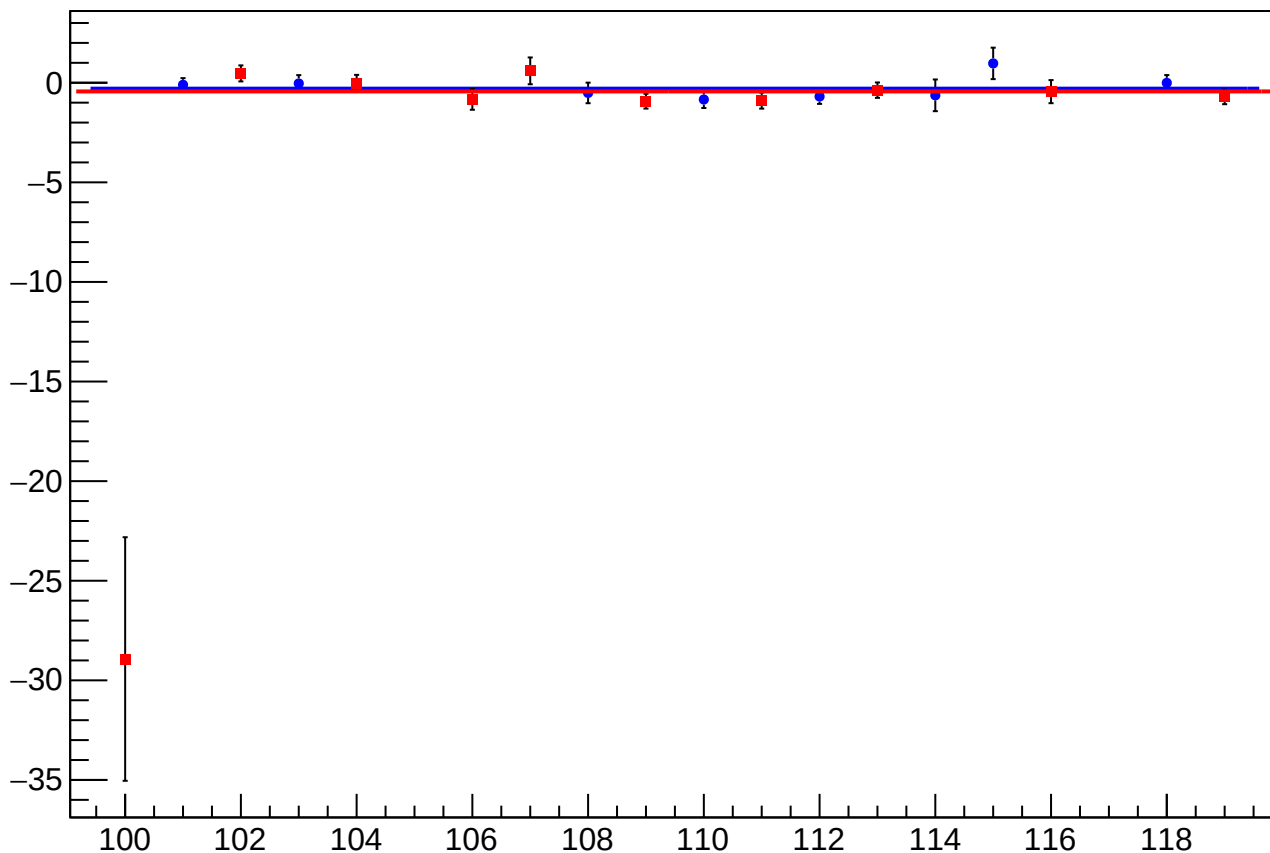
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.080+/-0.099  $\chi^2/\text{NDF}$ : 23.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.298 \pm 0.157$   $\chi^2/\text{NDF}$ : 6.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.436 \pm 0.143$   $\chi^2/\text{NDF}$ : 34.4/9

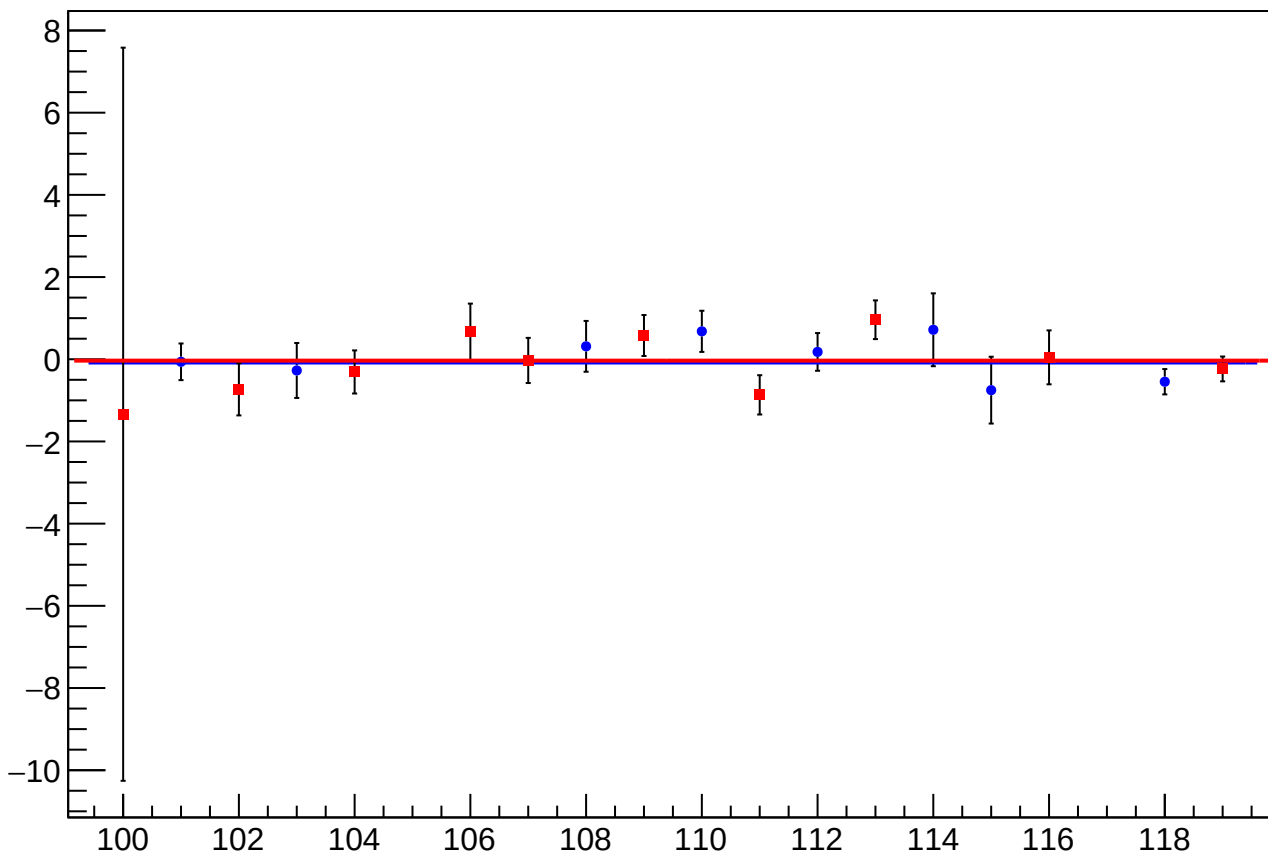
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.373 \pm 0.106$   $\chi^2/\text{NDF}$ : 41.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug



Right In: -0.079+/-0.177  $\chi^2/\text{NDF}$ : 6.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.034+/-0.163  $\chi^2/\text{NDF}$ : 12.0/9

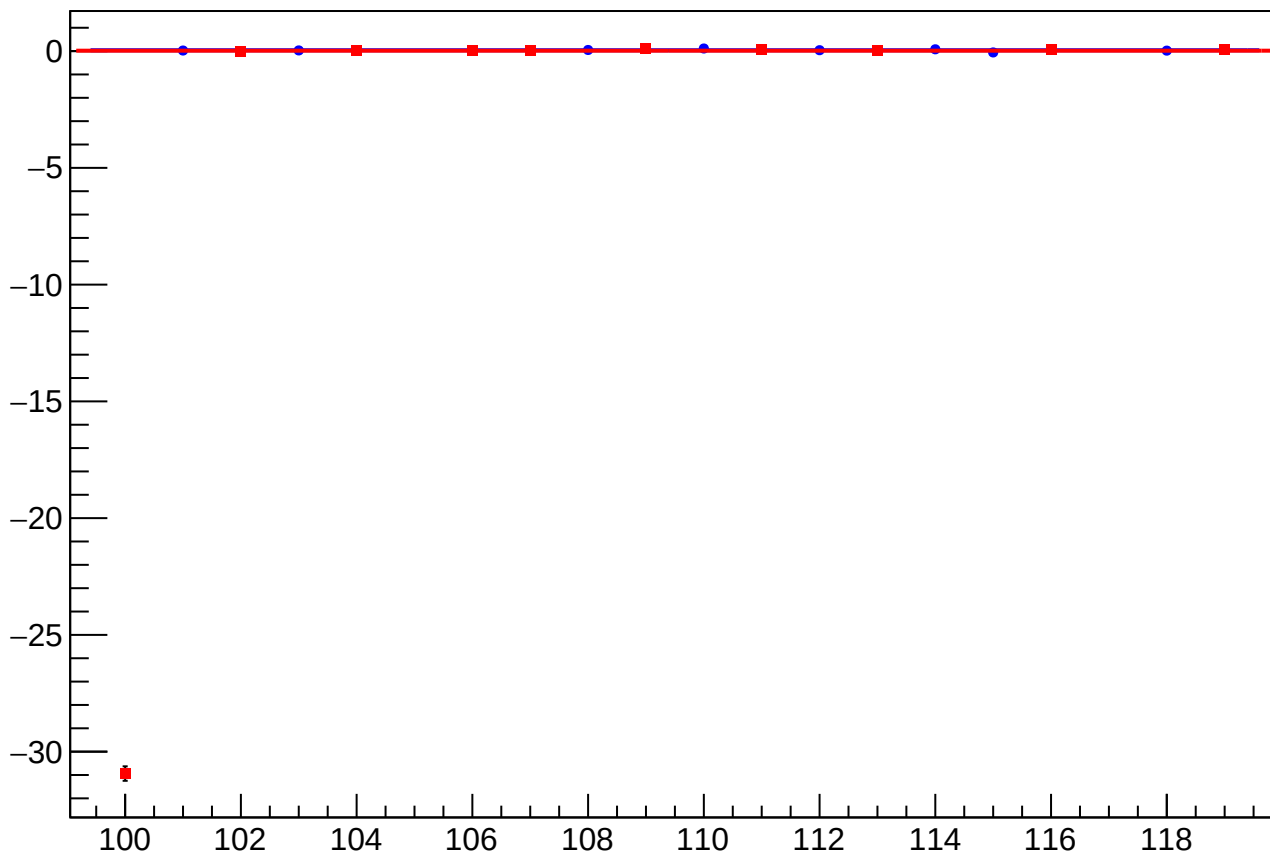
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.054+/-0.120  $\chi^2/\text{NDF}$ : 18.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug



Right In: 0.037+/-0.009  $\chi^2/\text{NDF}$ : 8.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.018+/-0.008  $\chi^2/\text{NDF}$ : 10009.0/9

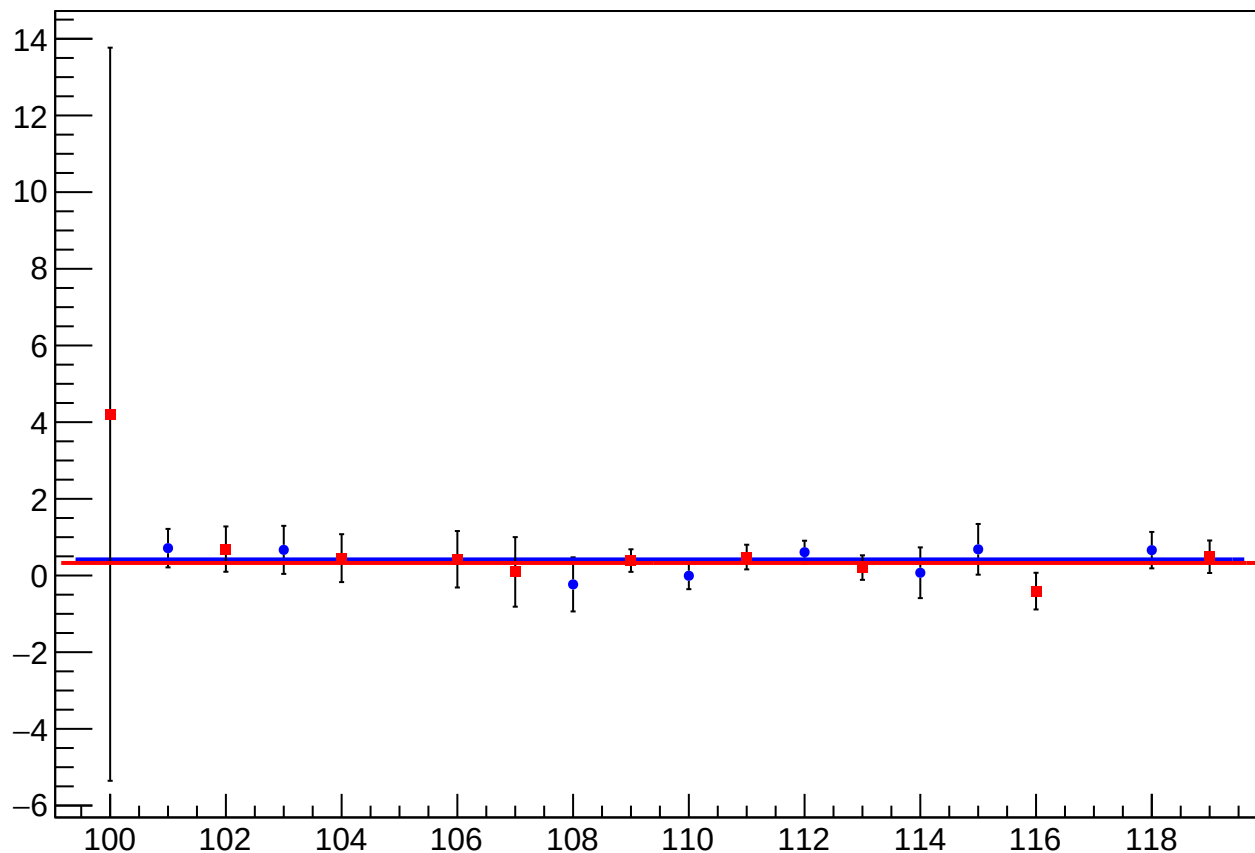
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.027+/-0.006  $\chi^2/\text{NDF}$ : 10019.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug



Right In: 0.420 $\pm$ 0.165  $\chi^2$ /NDF: 3.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.328 $\pm$ 0.142  $\chi^2$ /NDF: 3.6/9

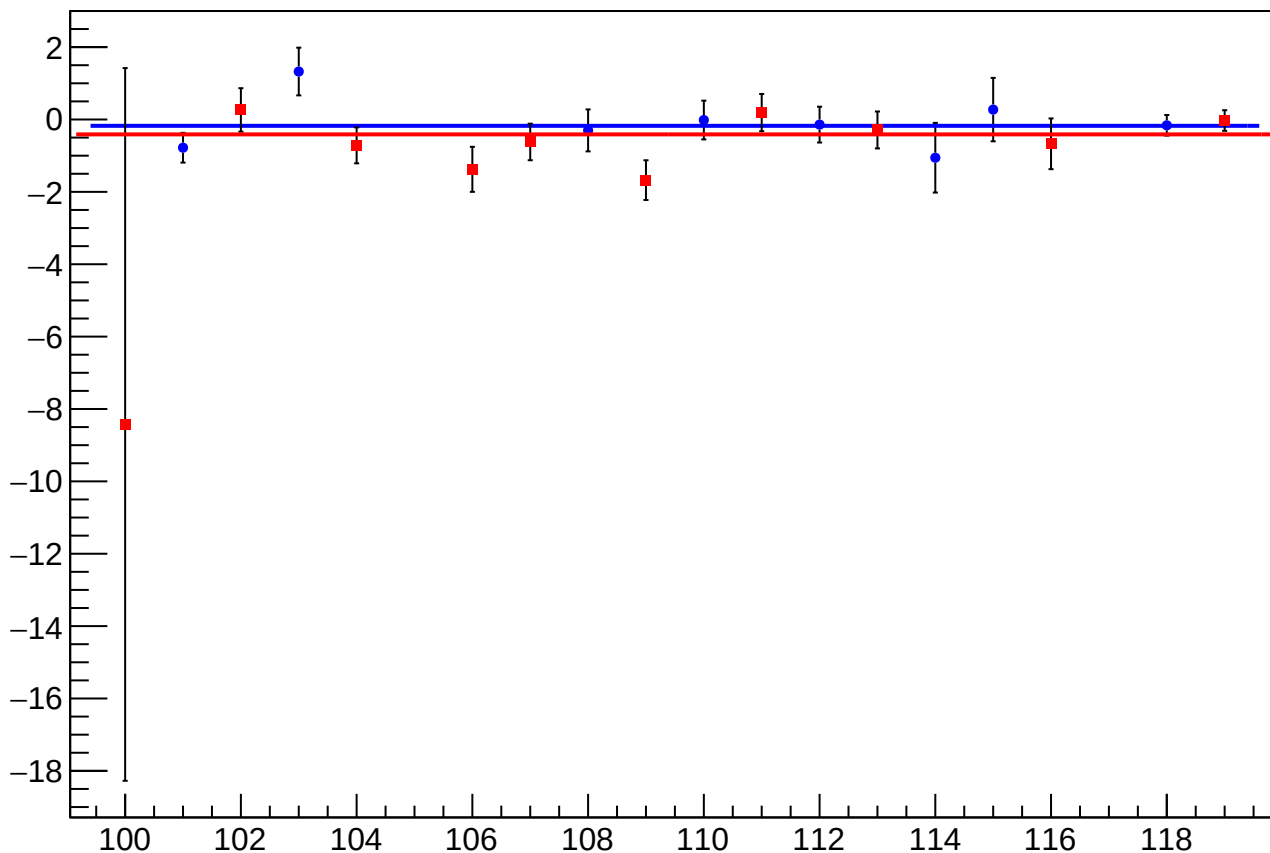
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.367 $\pm$ 0.108  $\chi^2$ /NDF: 7.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.175 \pm 0.173$   $\chi^2/\text{NDF}$ : 8.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.412 \pm 0.161$   $\chi^2/\text{NDF}$ : 13.6/9

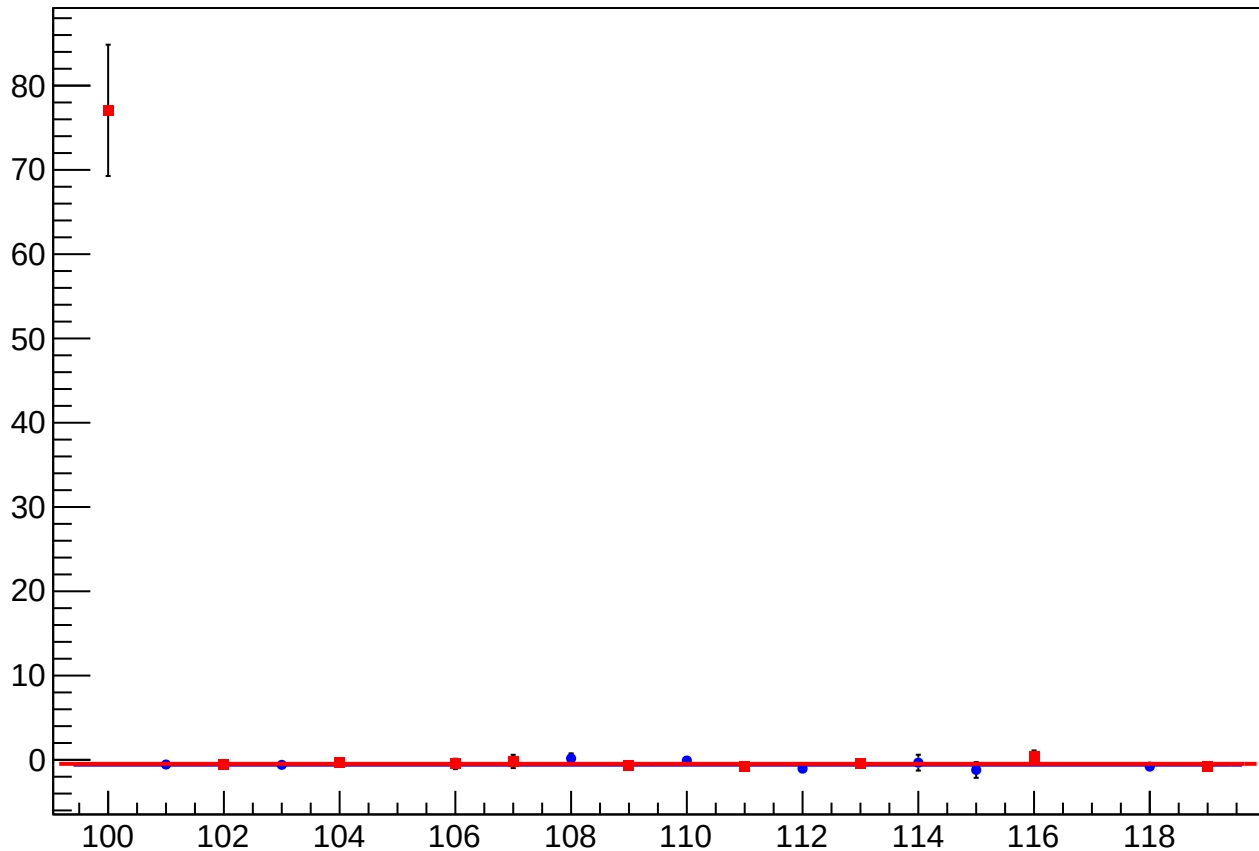
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.302 \pm 0.118$   $\chi^2/\text{NDF}$ : 23.2/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.571 \pm 0.185$   $\chi^2/\text{NDF}$ : 4.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.473 \pm 0.170$   $\chi^2/\text{NDF}$ : 102.2/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

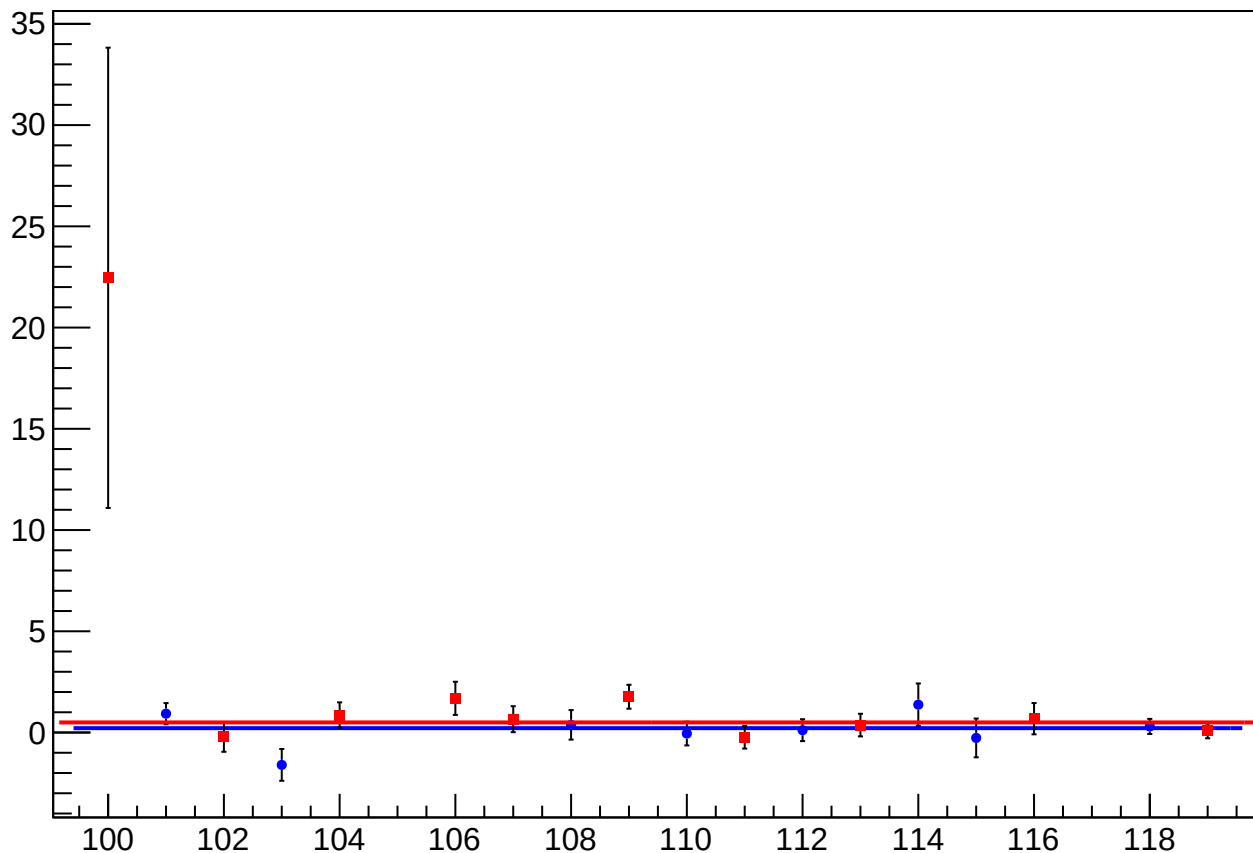
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.518 \pm 0.125$   $\chi^2/\text{NDF}$ : 106.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug



Right In: 0.215 $\pm$ 0.210  $\chi^2$ /NDF: 9.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.498 $\pm$ 0.193  $\chi^2$ /NDF: 15.0/9

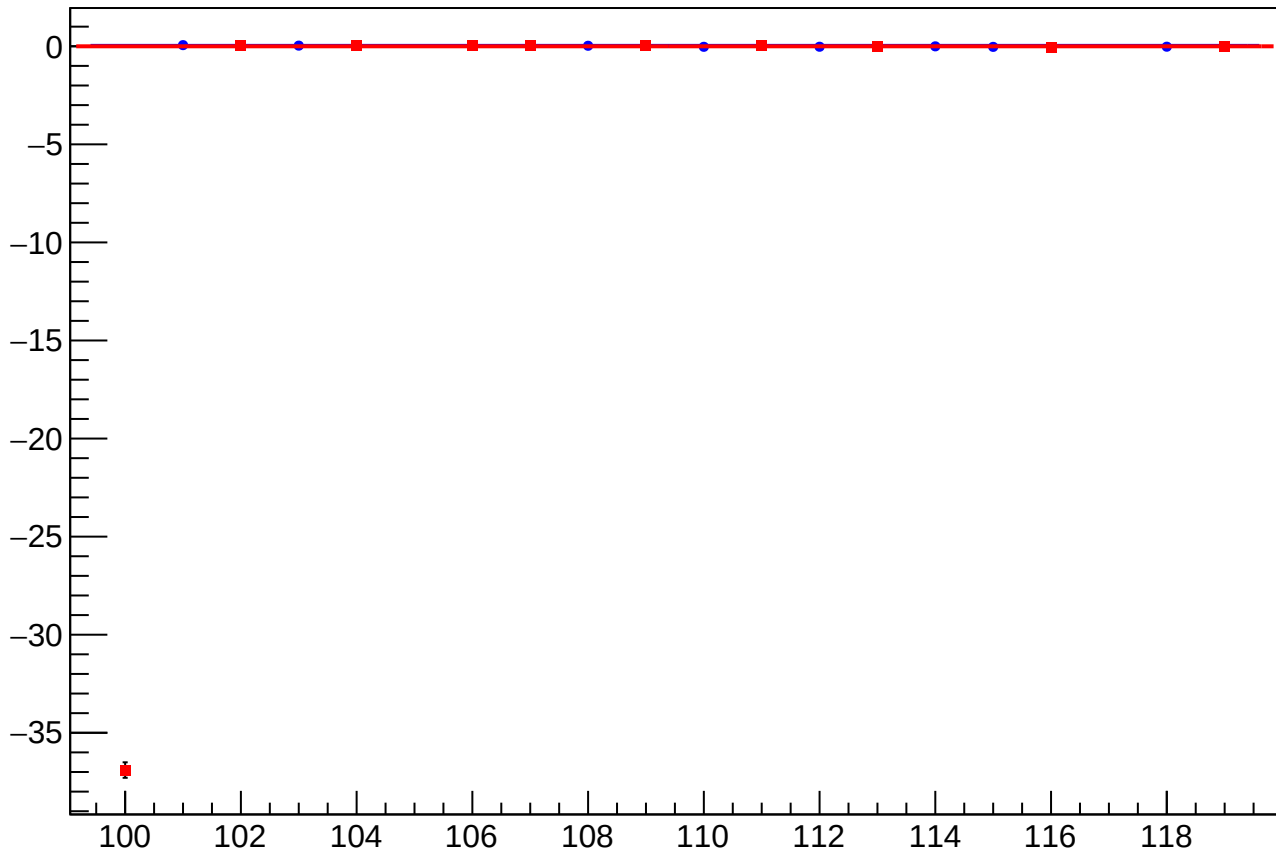
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.369 $\pm$ 0.142  $\chi^2$ /NDF: 25.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug



Right In: 0.020+/-0.011  $\chi^2/\text{NDF}$ : 7.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.002+/-0.010  $\chi^2/\text{NDF}$ : 8745.0/9

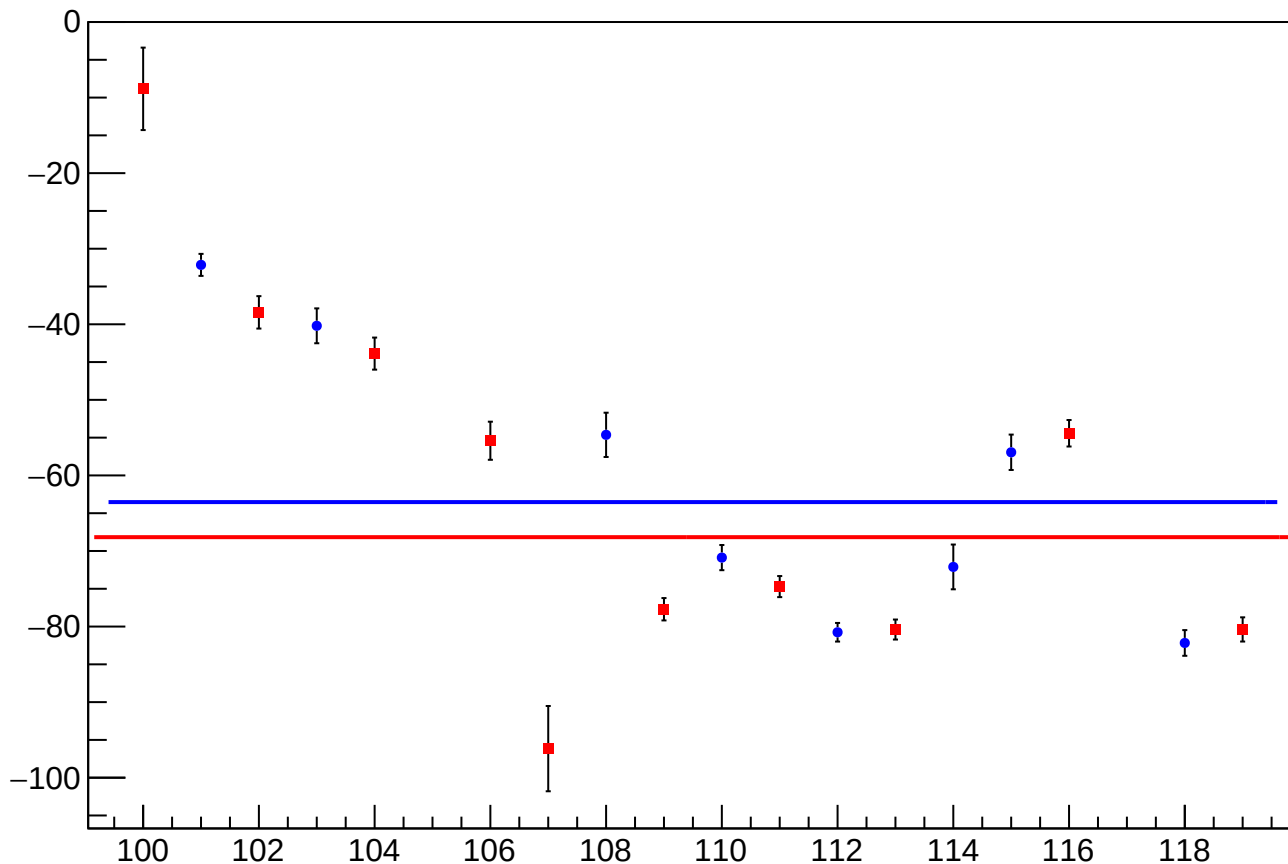
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.007  $\chi^2/\text{NDF}$ : 8755.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -63.529+/-0.641  $\chi^2/\text{NDF}$ : 927.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -68.170+/-0.585  $\chi^2/\text{NDF}$ : 760.3/9

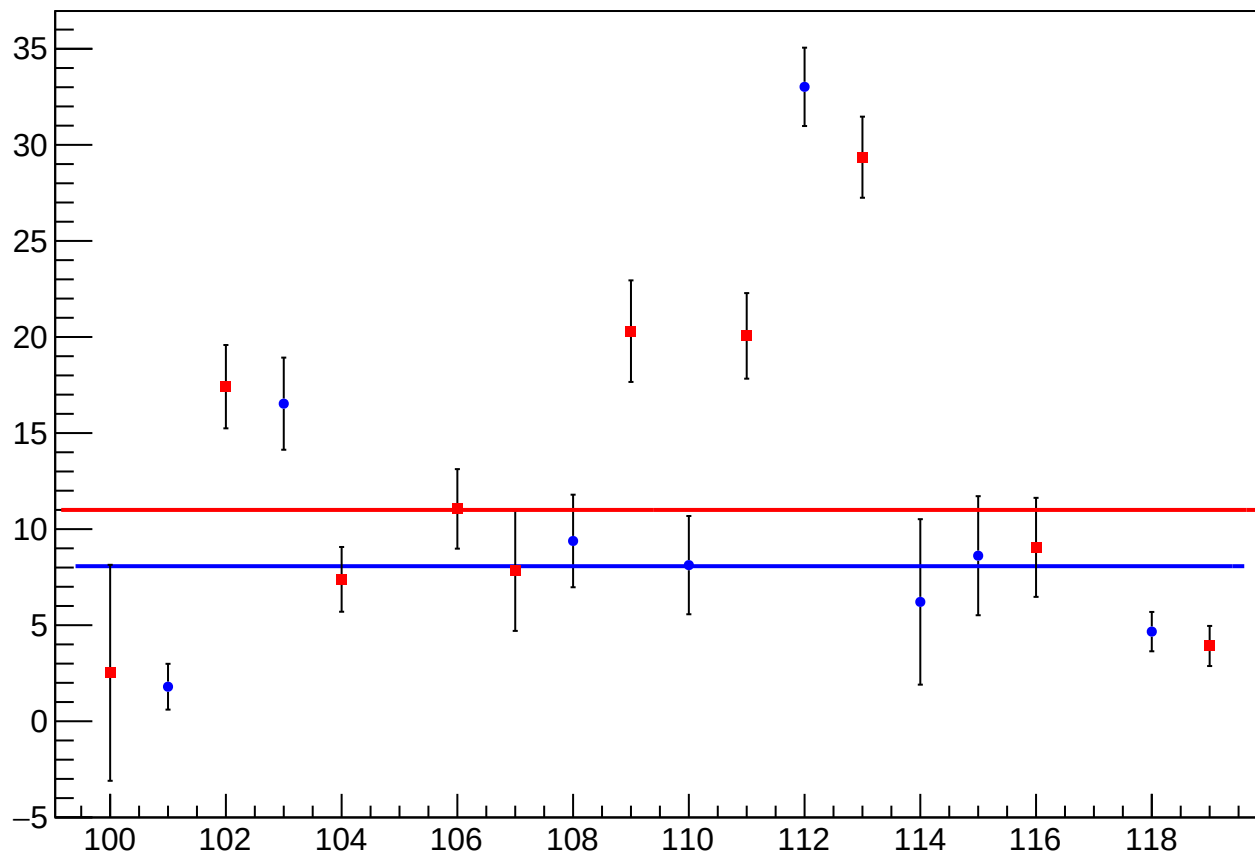
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -66.059+/-0.432  $\chi^2/\text{NDF}$ : 1716.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 8.071 $\pm$ 0.626  $\chi^2$ /NDF: 201.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.999 $\pm$ 0.624  $\chi^2$ /NDF: 167.8/9

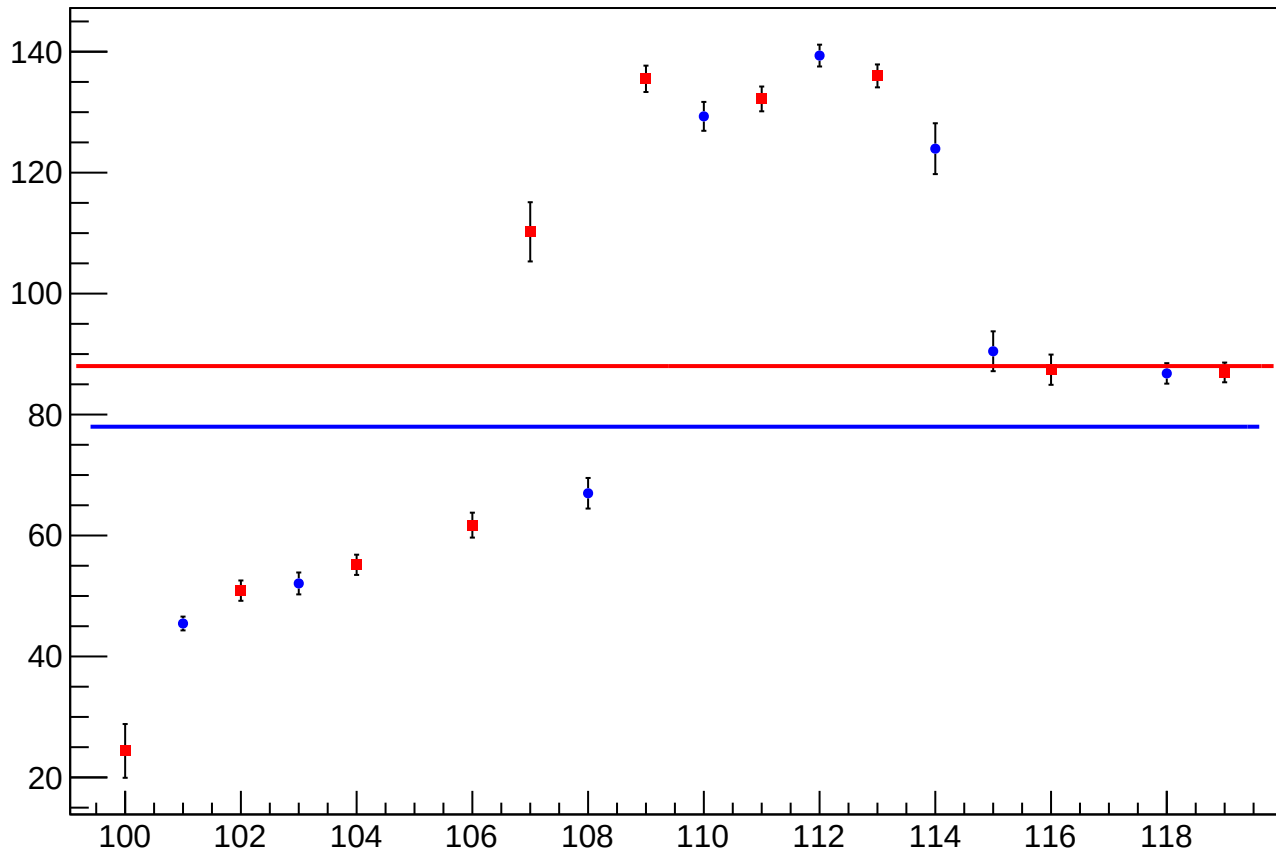
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.539 $\pm$ 0.442  $\chi^2$ /NDF: 380.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 77.991+/-0.673  $\chi^2/\text{NDF}$ : 2817.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 88.015+/-0.659  $\chi^2/\text{NDF}$ : 2843.2/9

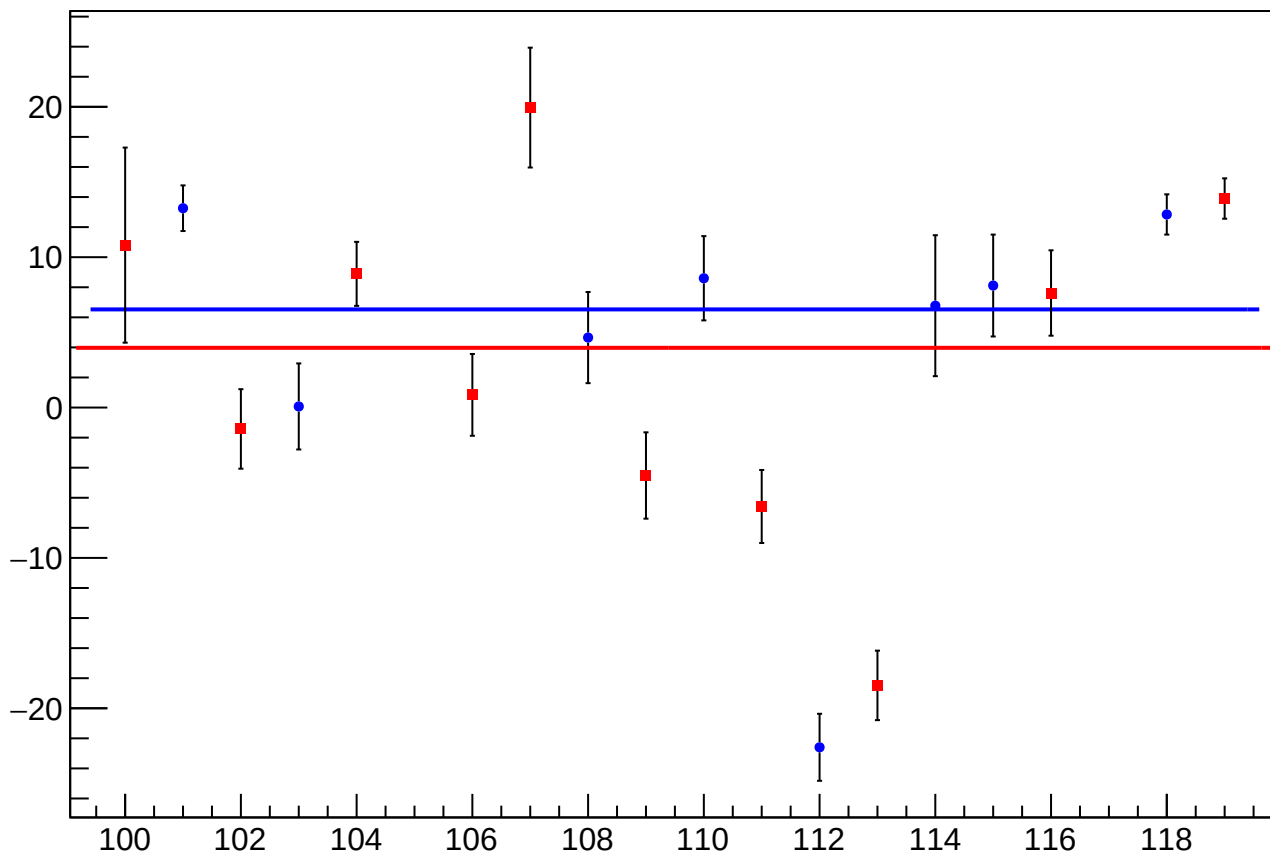
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 83.105+/-0.471  $\chi^2/\text{NDF}$ : 5774.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 6.527 $\pm$ 0.771  $\chi^2$ /NDF: 219.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.973 $\pm$ 0.757  $\chi^2$ /NDF: 206.4/9

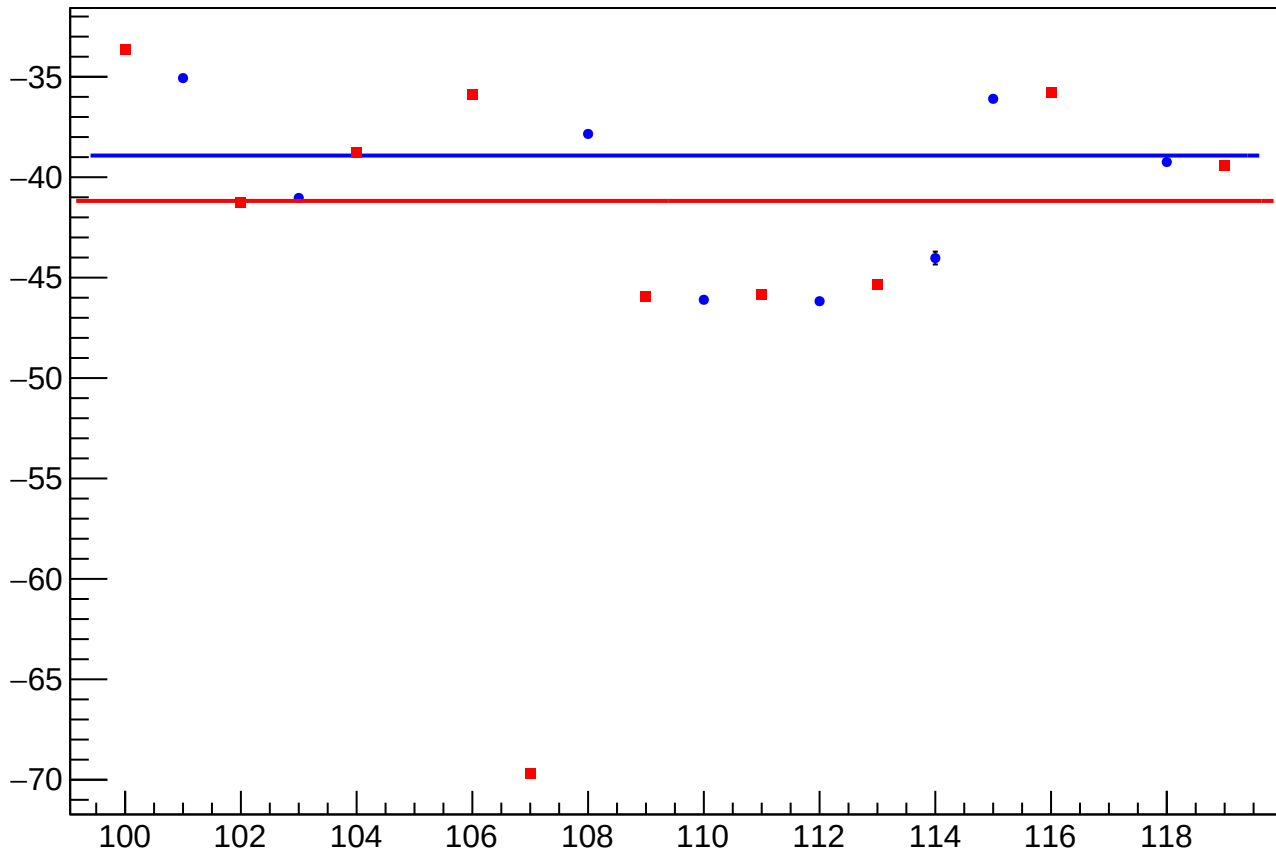
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.228 $\pm$ 0.540  $\chi^2$ /NDF: 431.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -38.921+/-0.039  $\chi^2/\text{NDF}$ : 8440.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -41.180+/-0.038  $\chi^2/\text{NDF}$ : 29204.7/9

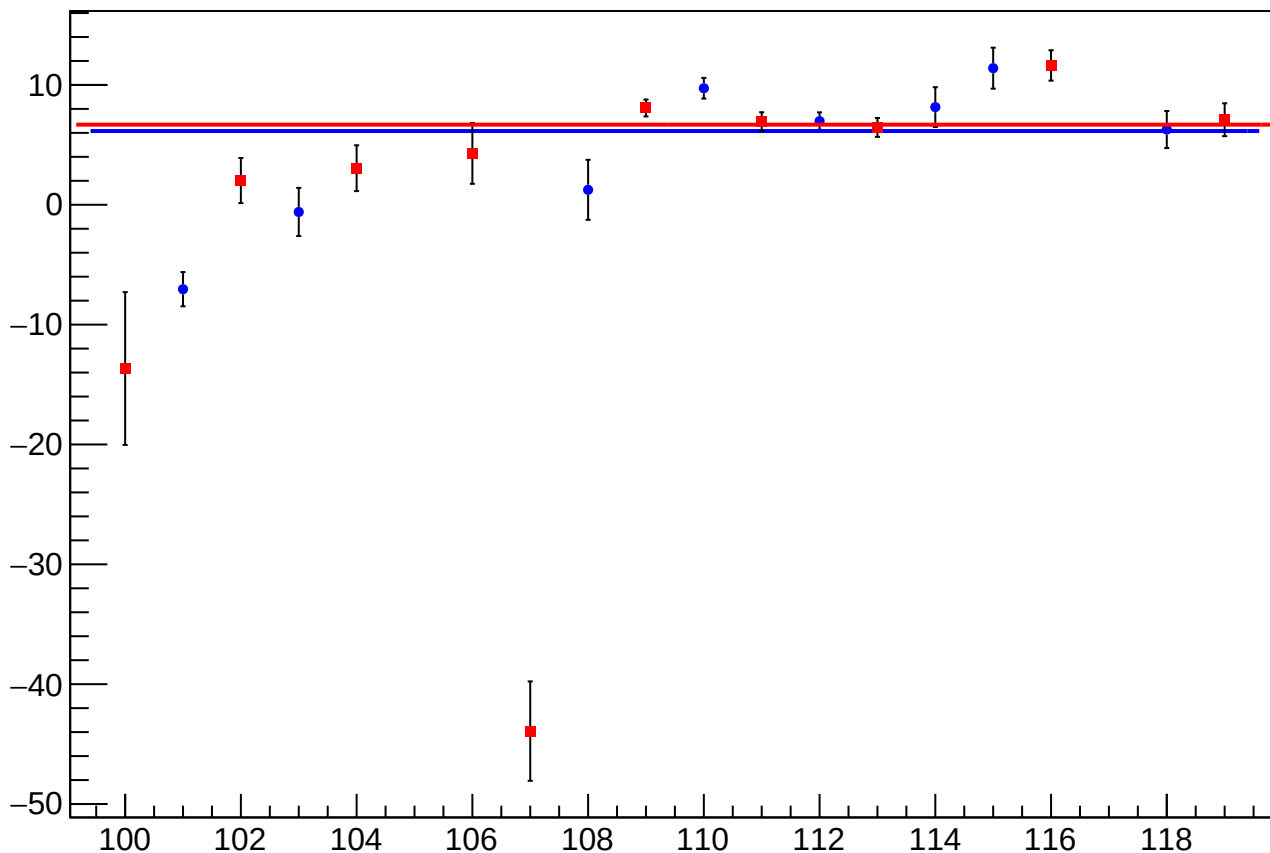
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -40.104+/-0.027  $\chi^2/\text{NDF}$ : 39361.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 6.154 $\pm$ 0.437  $\chi^2$ /NDF: 129.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6.686 $\pm$ 0.373  $\chi^2$ /NDF: 189.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

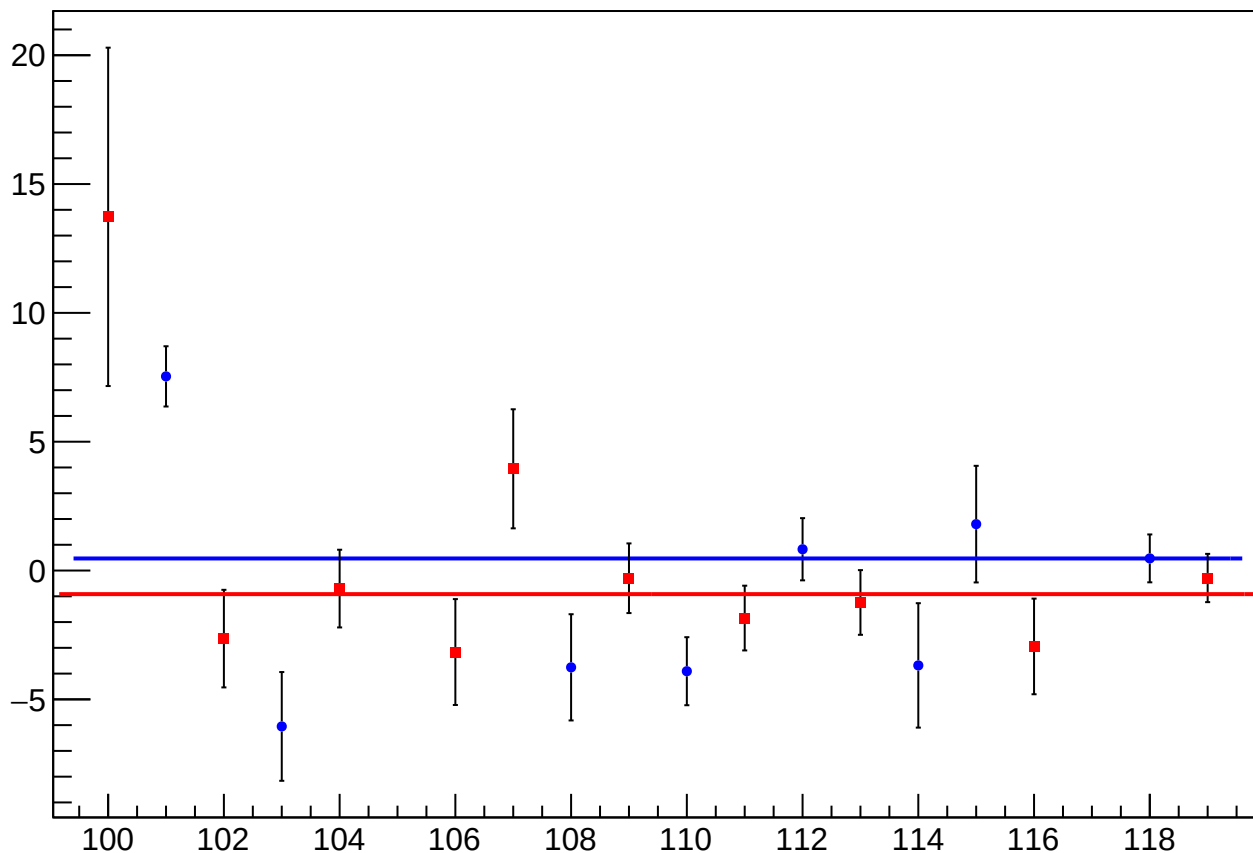
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.462 $\pm$ 0.284  $\chi^2$ /NDF: 319.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.468 $\pm$ 0.501  $\chi^2$ /NDF: 64.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.916 $\pm$ 0.476  $\chi^2$ /NDF: 13.9/9

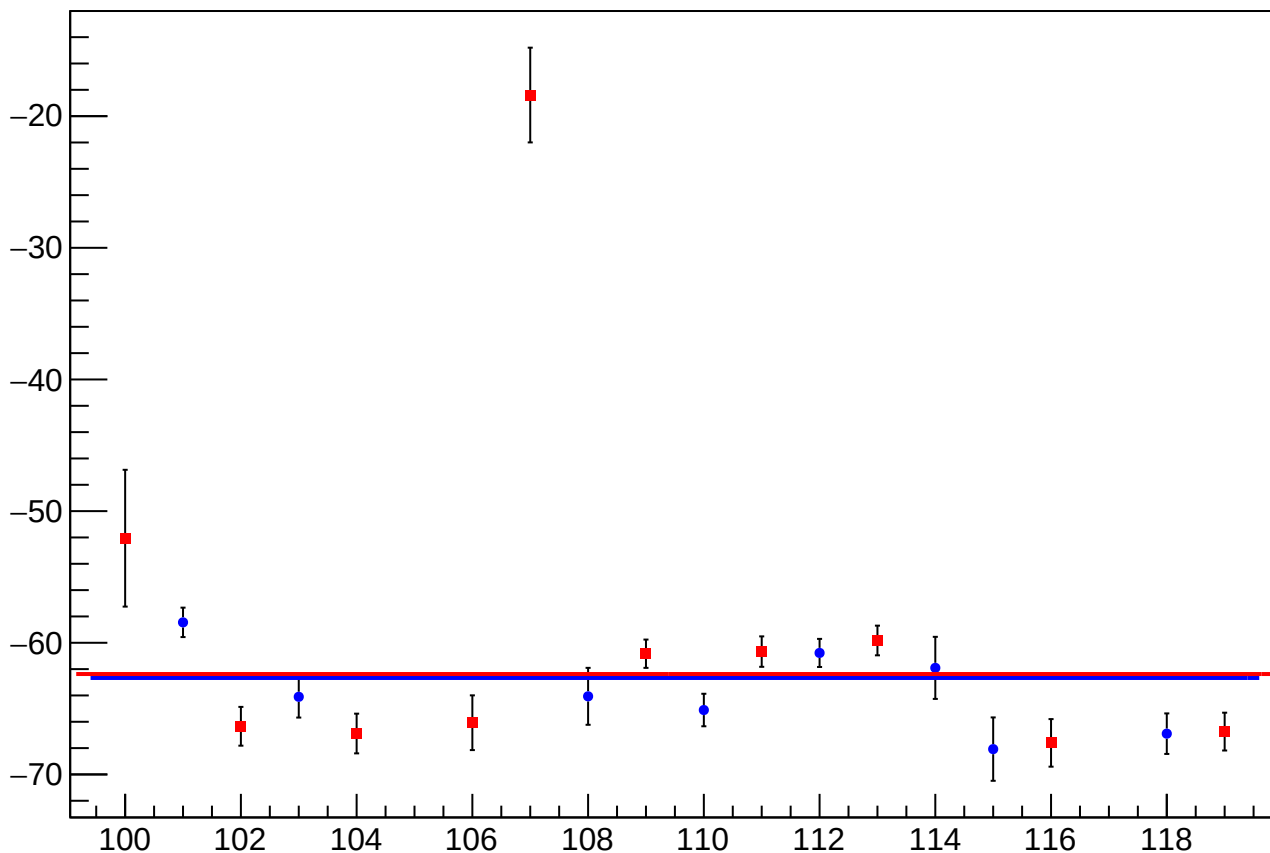
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.260 $\pm$ 0.345  $\chi^2$ /NDF: 82.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -62.673+/-0.518  $\chi^2/\text{NDF}$ : 35.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -62.373+/-0.475  $\chi^2/\text{NDF}$ : 199.7/9

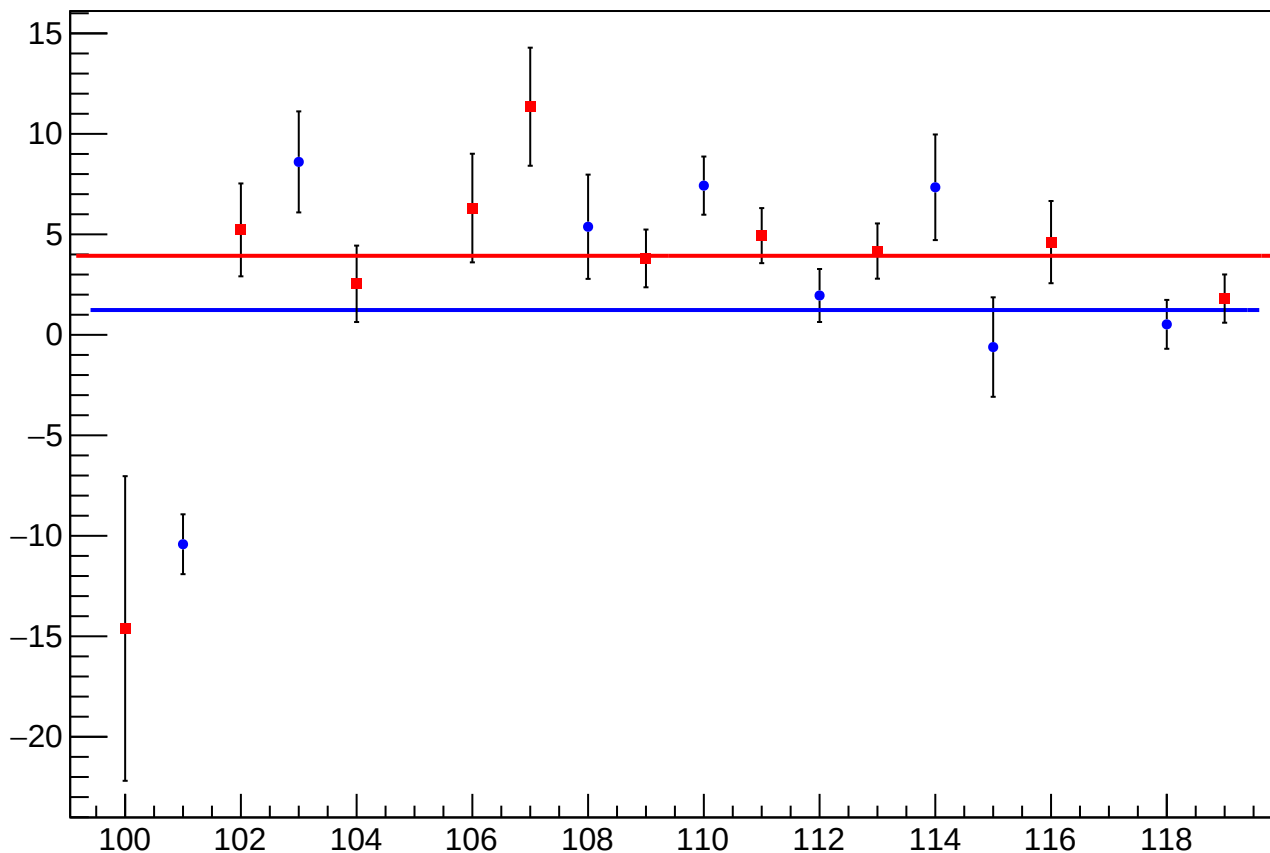
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -62.510+/-0.350  $\chi^2/\text{NDF}$ : 235.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 1.235+/-0.598  $\chi^2/\text{NDF}$ : 97.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.933+/-0.558  $\chi^2/\text{NDF}$ : 17.8/9

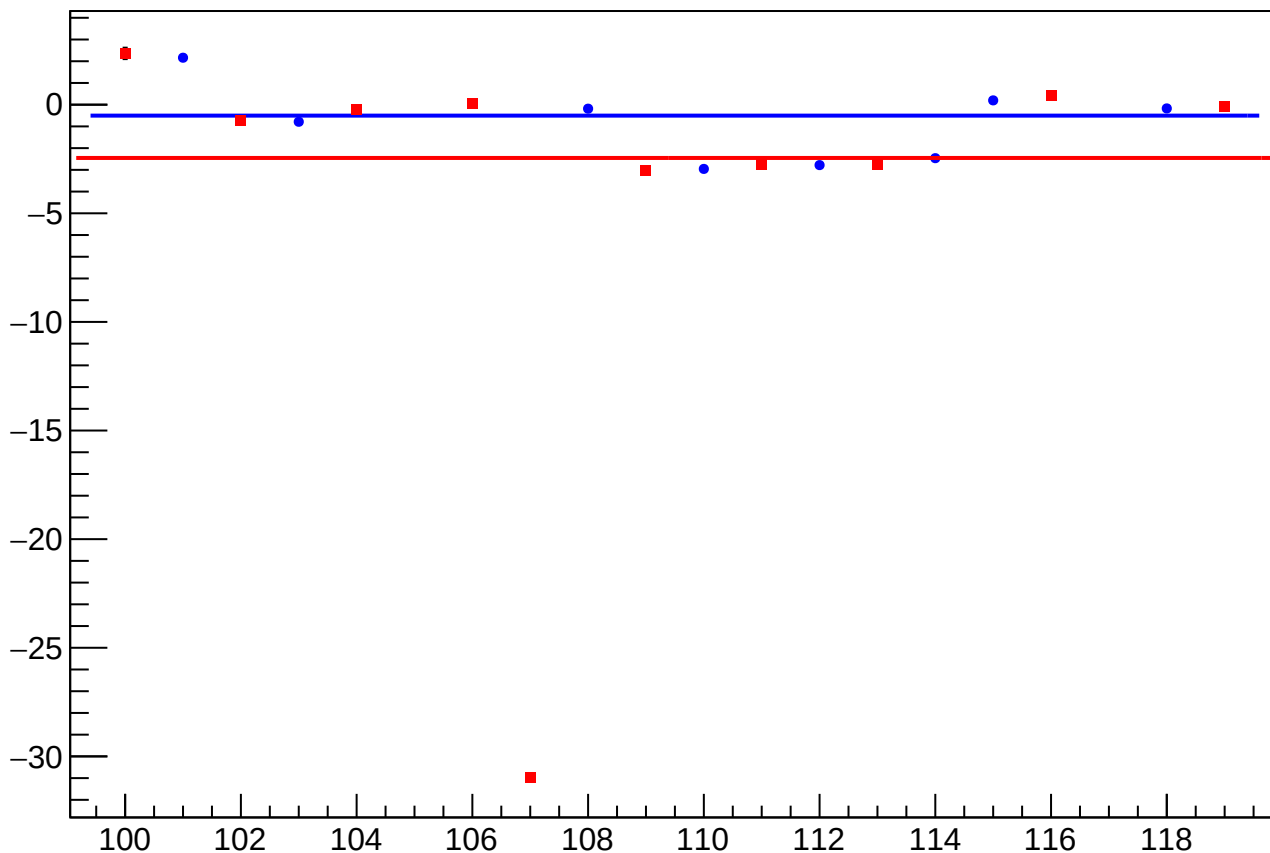
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.678+/-0.408  $\chi^2/\text{NDF}$ : 126.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.503 \pm 0.032$   $\chi^2/\text{NDF}$ : 3085.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.452 \pm 0.030$   $\chi^2/\text{NDF}$ : 41658.3/9

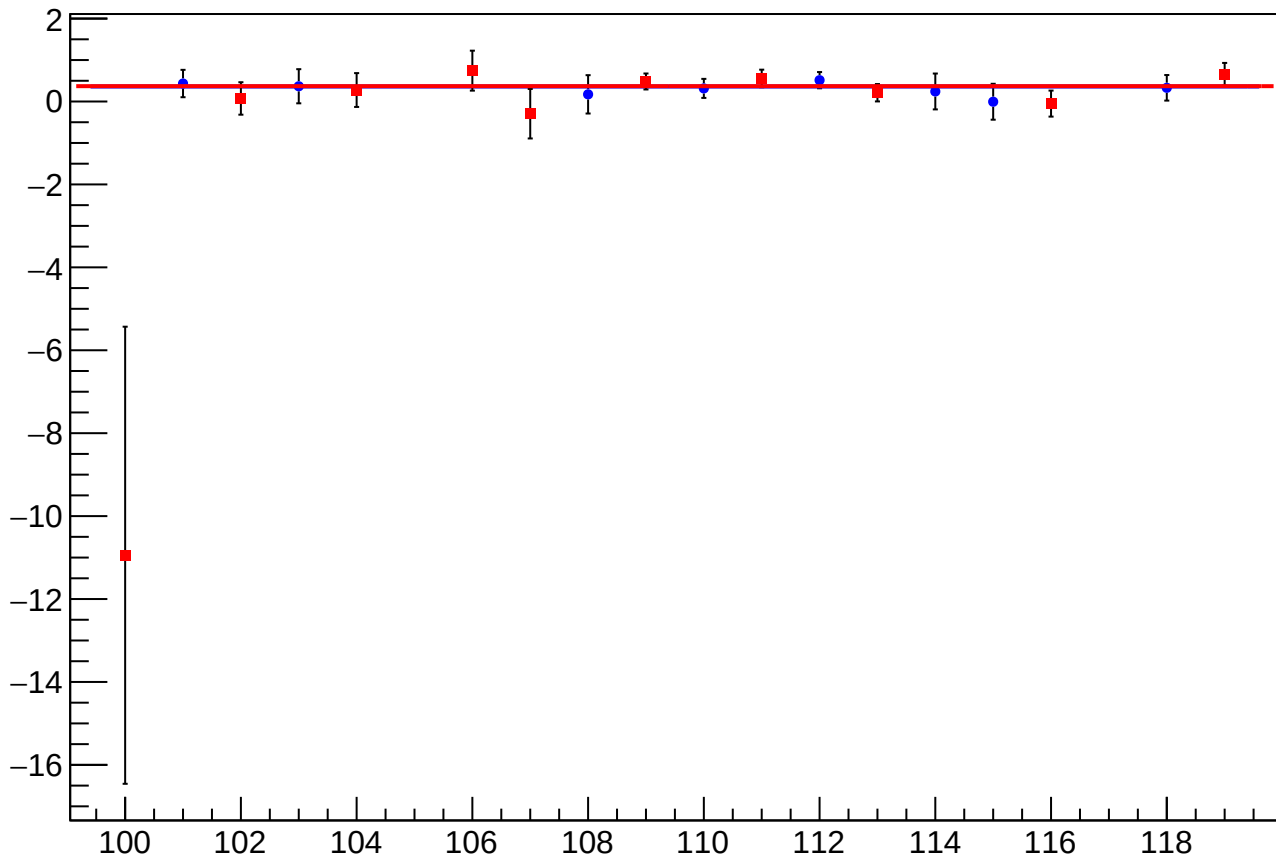
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.561 \pm 0.022$   $\chi^2/\text{NDF}$ : 46706.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.362 $\pm$ 0.108  $\chi^2$ /NDF: 1.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.370 $\pm$ 0.093  $\chi^2$ /NDF: 11.3/9

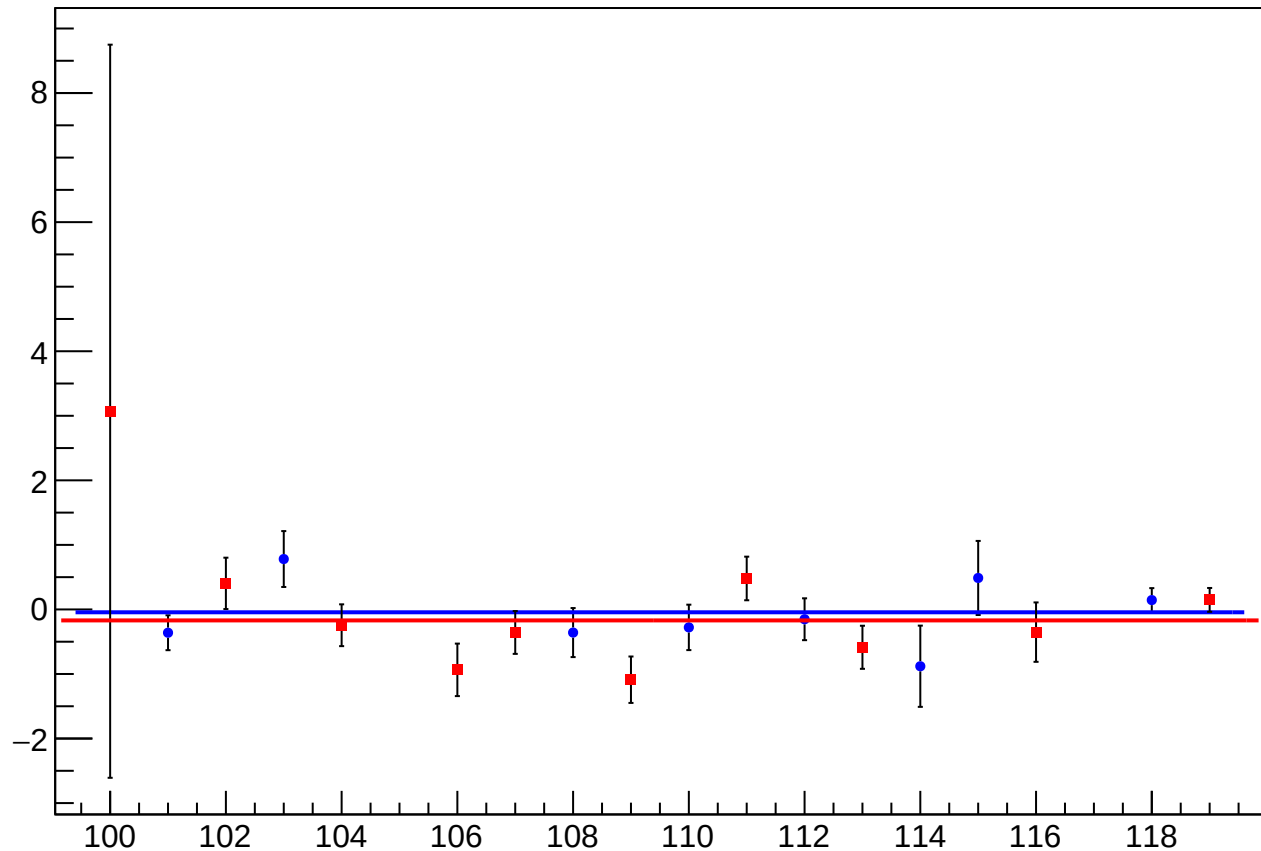
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.366 $\pm$ 0.070  $\chi^2$ /NDF: 12.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.044 \pm 0.113$   $\chi^2/\text{NDF}$ : 9.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.170 \pm 0.105$   $\chi^2/\text{NDF}$ : 21.2/9

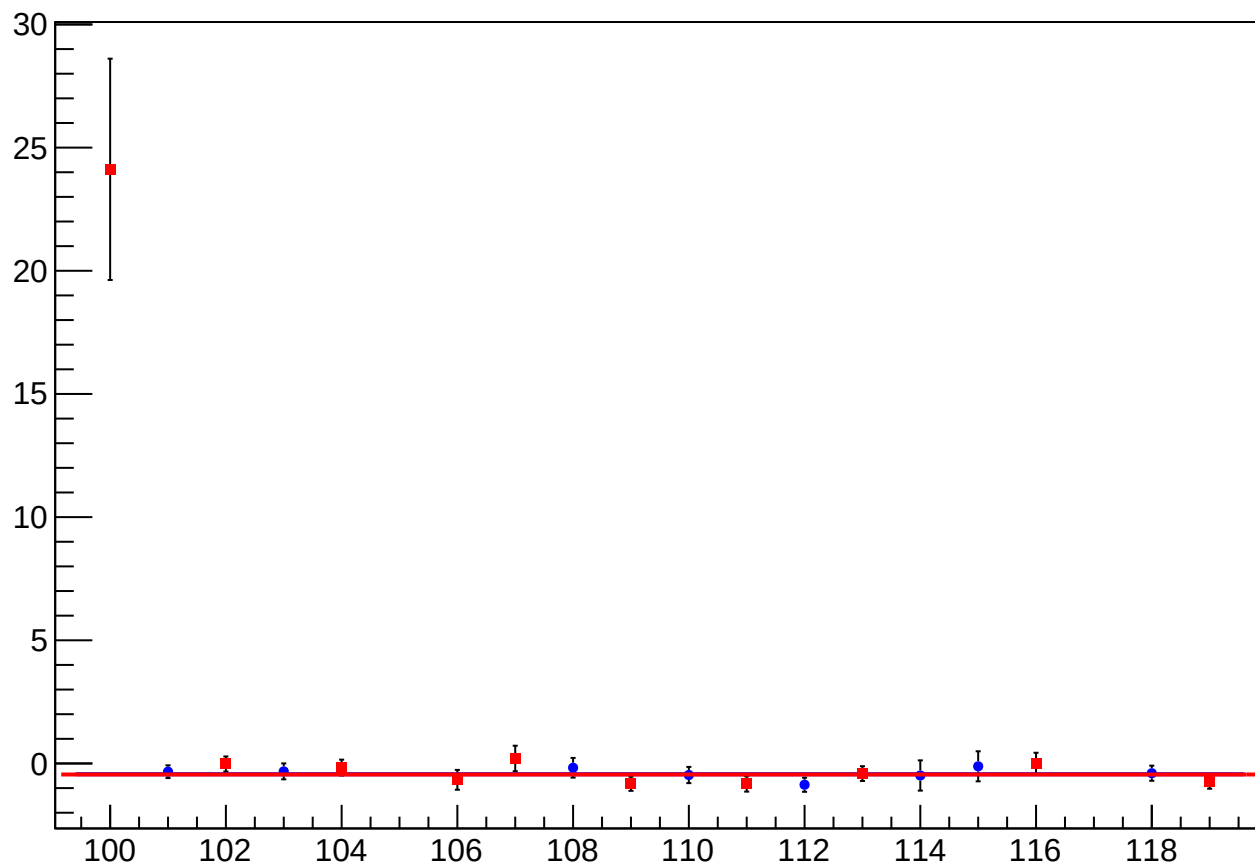
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.112 \pm 0.077$   $\chi^2/\text{NDF}$ : 31.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.437 \pm 0.121$   $\chi^2/\text{NDF}$ : 3.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.448 \pm 0.111$   $\chi^2/\text{NDF}$ : 39.7/9

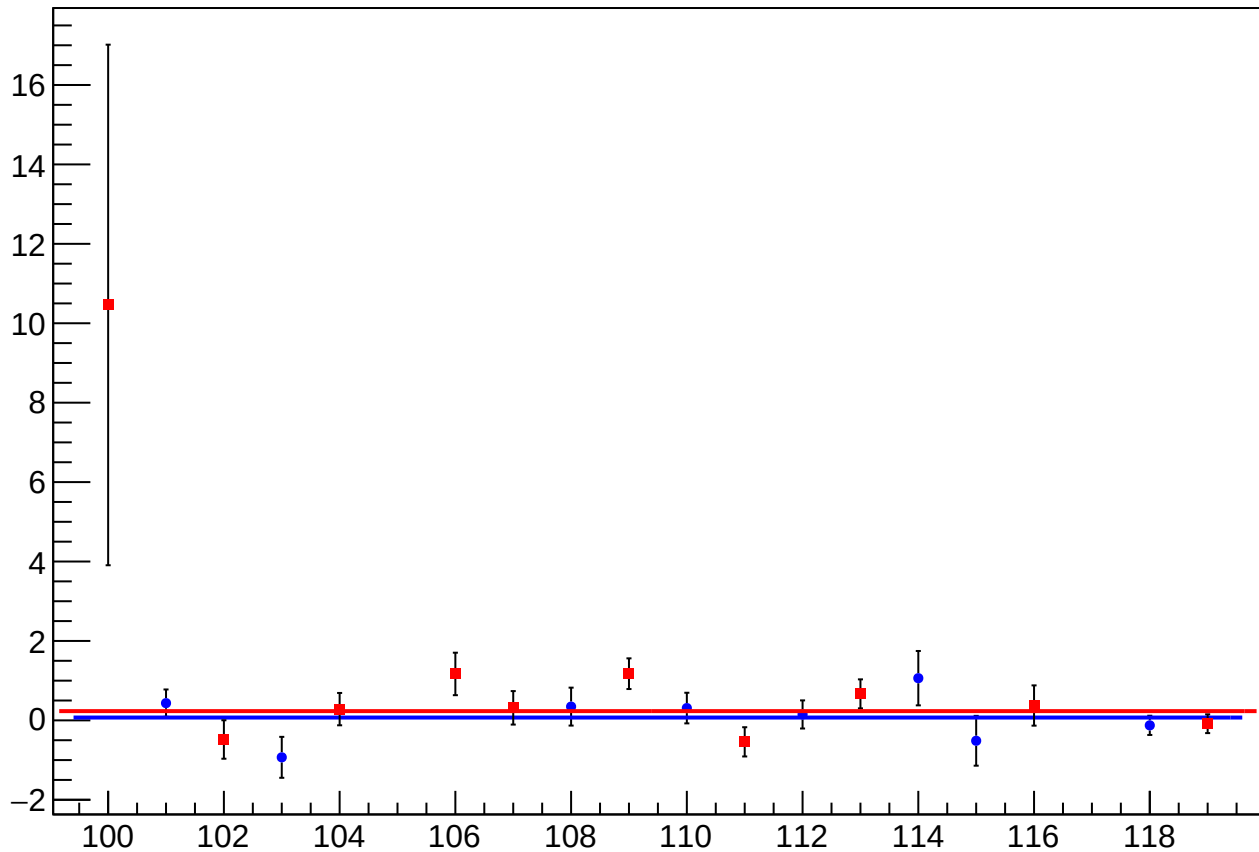
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.443 \pm 0.082$   $\chi^2/\text{NDF}$ : 43.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.071 $\pm$ 0.137  $\chi^2$ /NDF: 9.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.233 $\pm$ 0.126  $\chi^2$ /NDF: 21.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

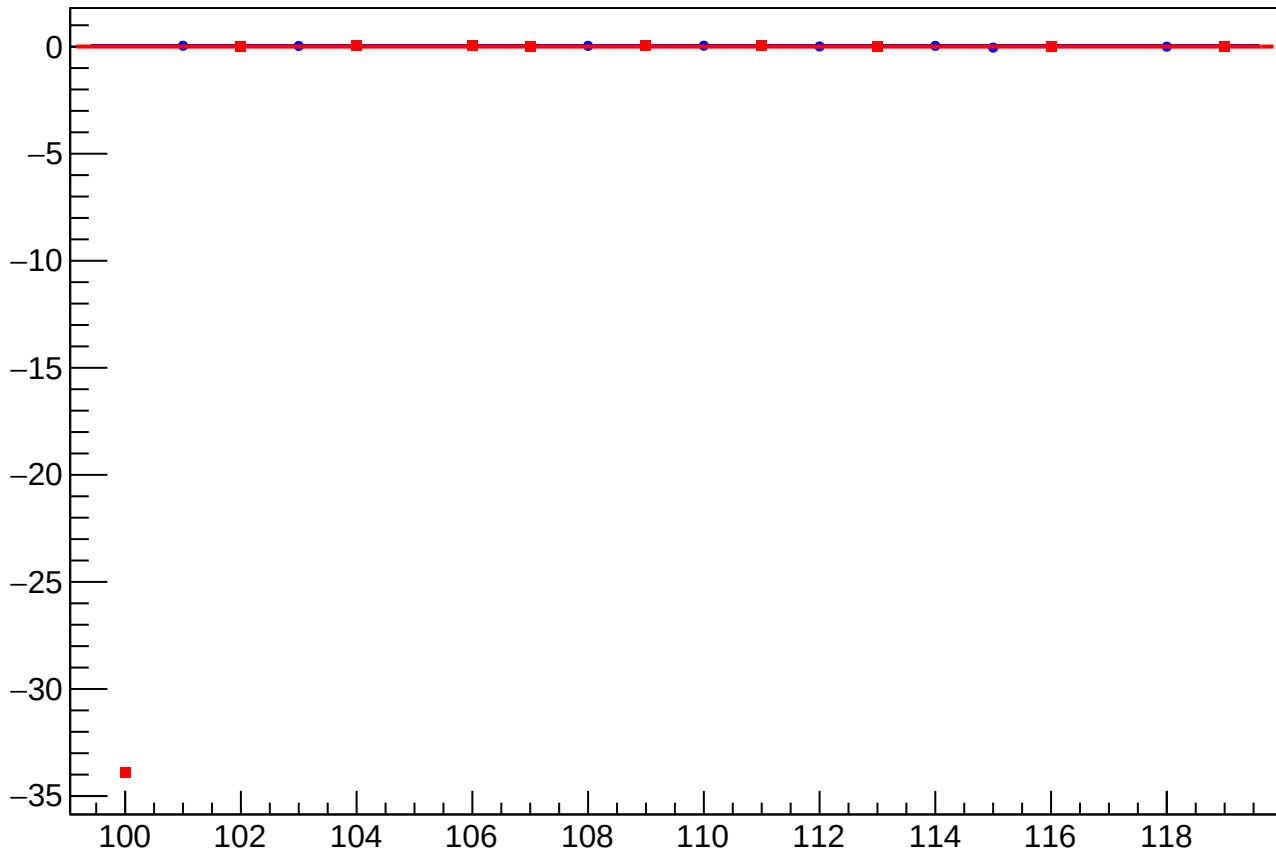
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.159 $\pm$ 0.093  $\chi^2$ /NDF: 31.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.028+/-0.007  $\chi^2/\text{NDF}$ : 6.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.006  $\chi^2/\text{NDF}$ : 22252.3/9

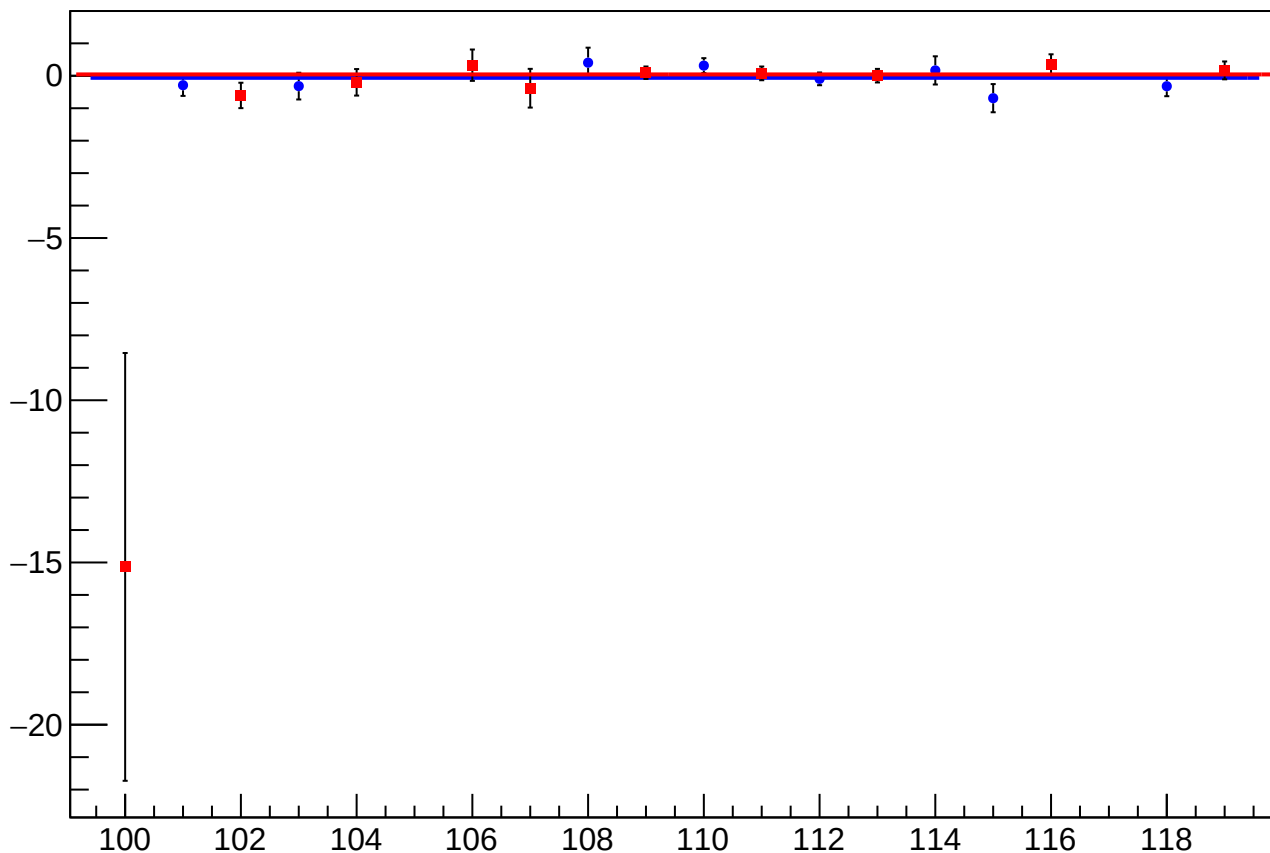
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.005  $\chi^2/\text{NDF}$ : 22265.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-0.062 \pm 0.108$   $\chi^2/\text{NDF}$ : 7.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.042 \pm 0.093$   $\chi^2/\text{NDF}$ : 10.5/9

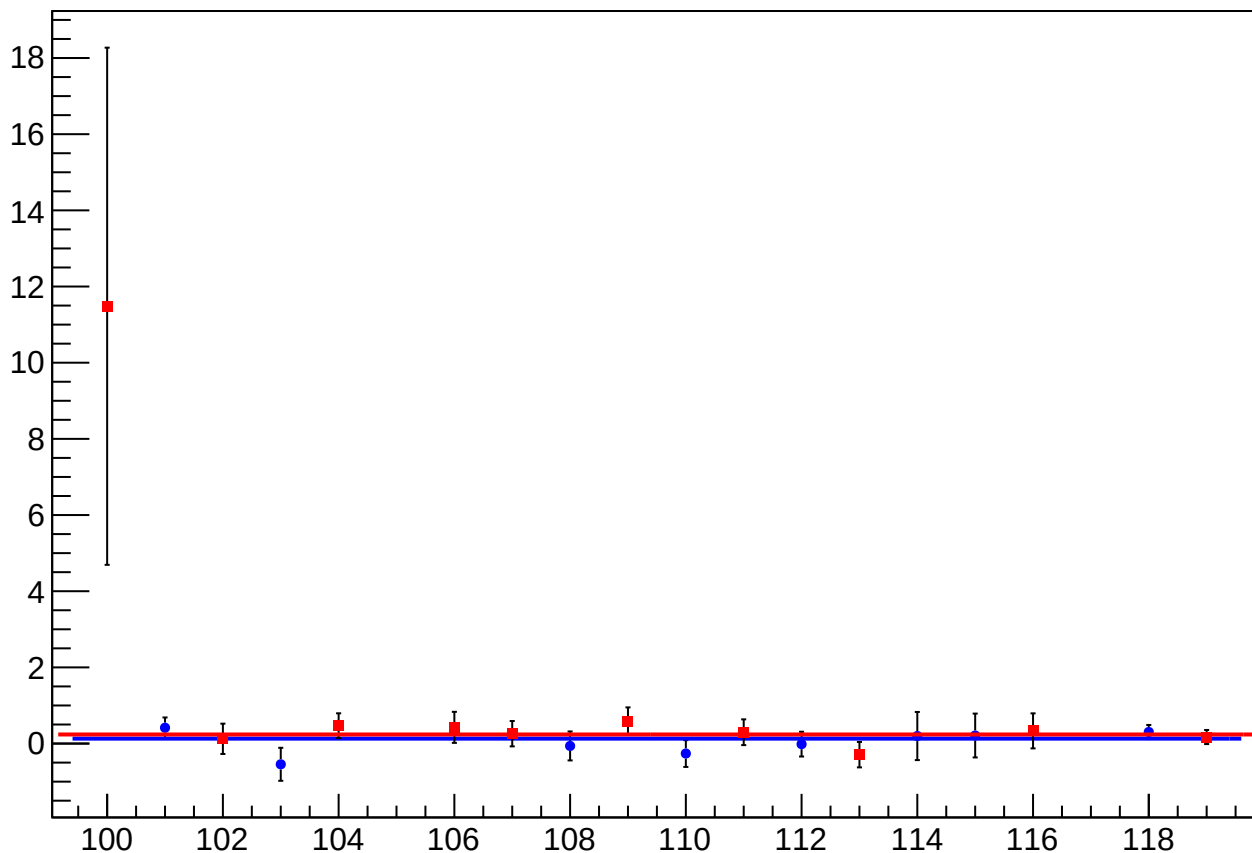
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.002 \pm 0.071$   $\chi^2/\text{NDF}$ : 18.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.129 $\pm$ 0.113  $\chi^2$ /NDF: 6.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.238 $\pm$ 0.105  $\chi^2$ /NDF: 7.2/9

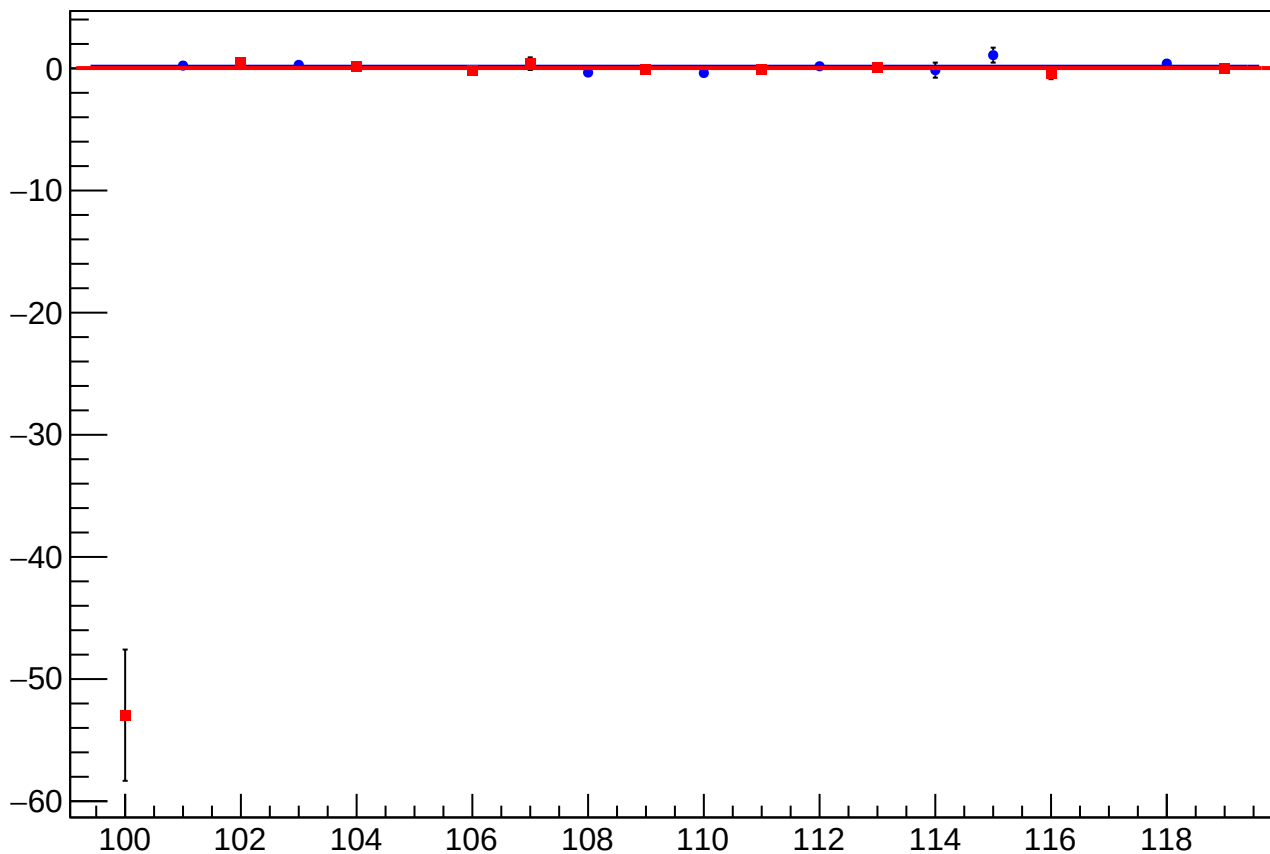
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.188 $\pm$ 0.077  $\chi^2$ /NDF: 13.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.139 $\pm$ 0.121  $\chi^2$ /NDF: 7.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.027 $\pm$ 0.111  $\chi^2$ /NDF: 101.9/9

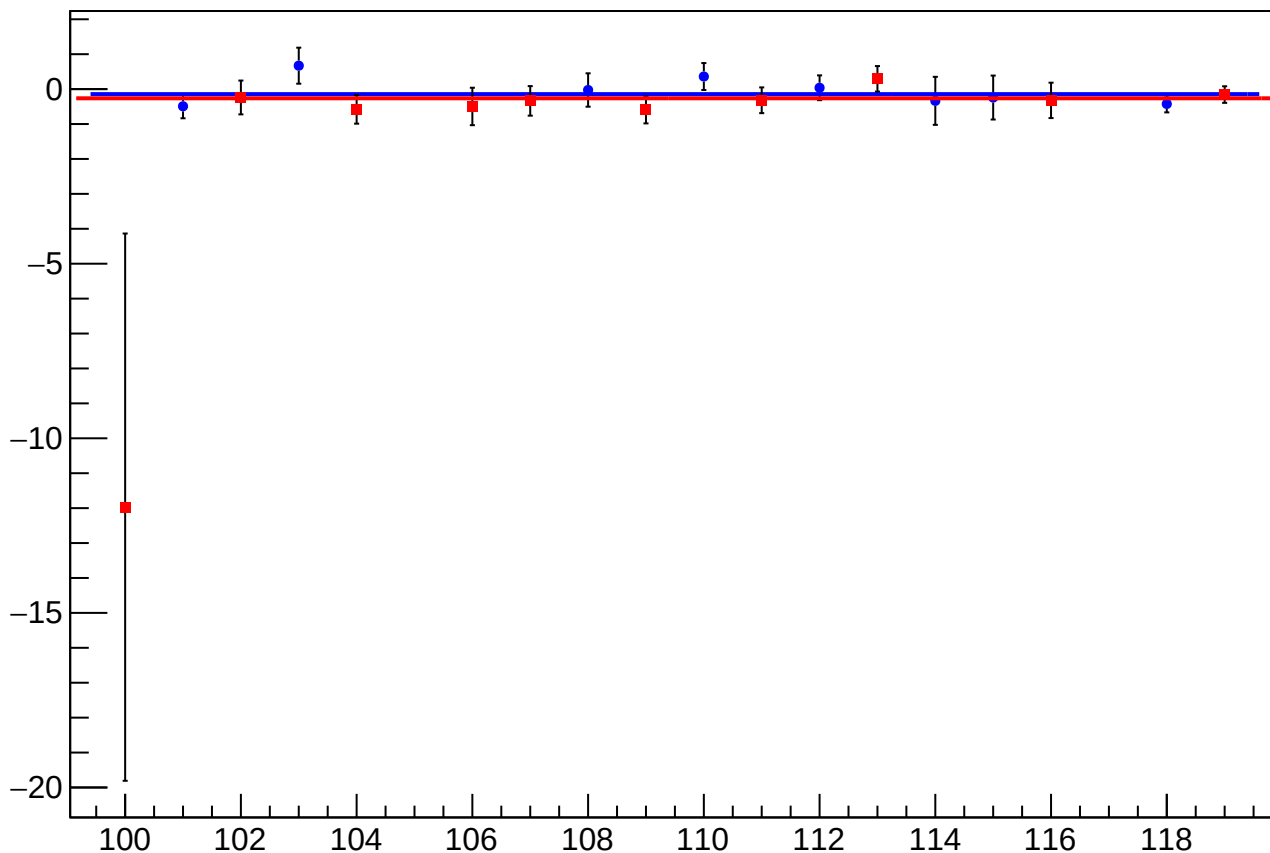
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.078 $\pm$ 0.082  $\chi^2$ /NDF: 109.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.144 \pm 0.137$   $\chi^2/\text{NDF}: 7.0/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.263 \pm 0.126$   $\chi^2/\text{NDF}: 6.4/9$

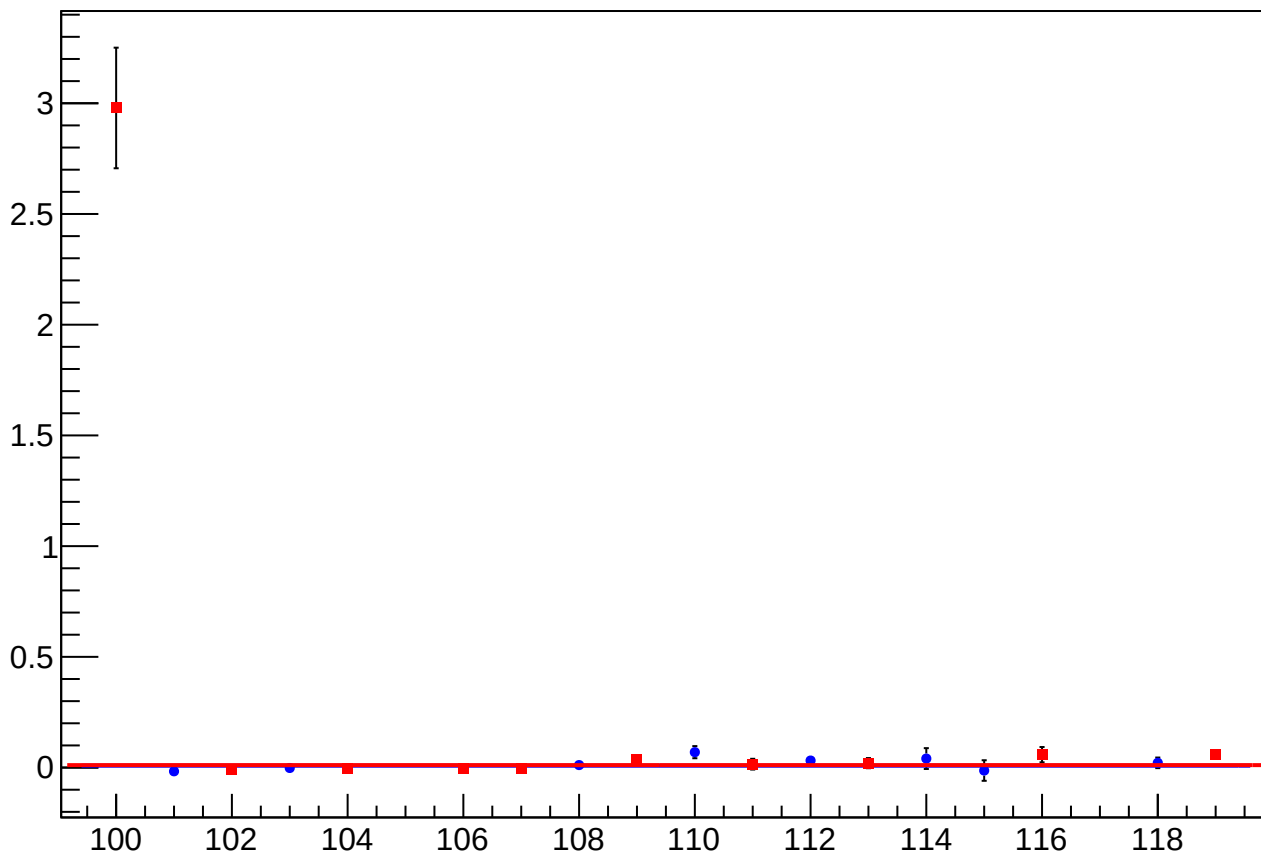
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.209 \pm 0.093$   $\chi^2/\text{NDF}: 13.8/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.009 $\pm$ 0.007  $\chi^2$ /NDF: 10.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.011 $\pm$ 0.006  $\chi^2$ /NDF: 130.9/9

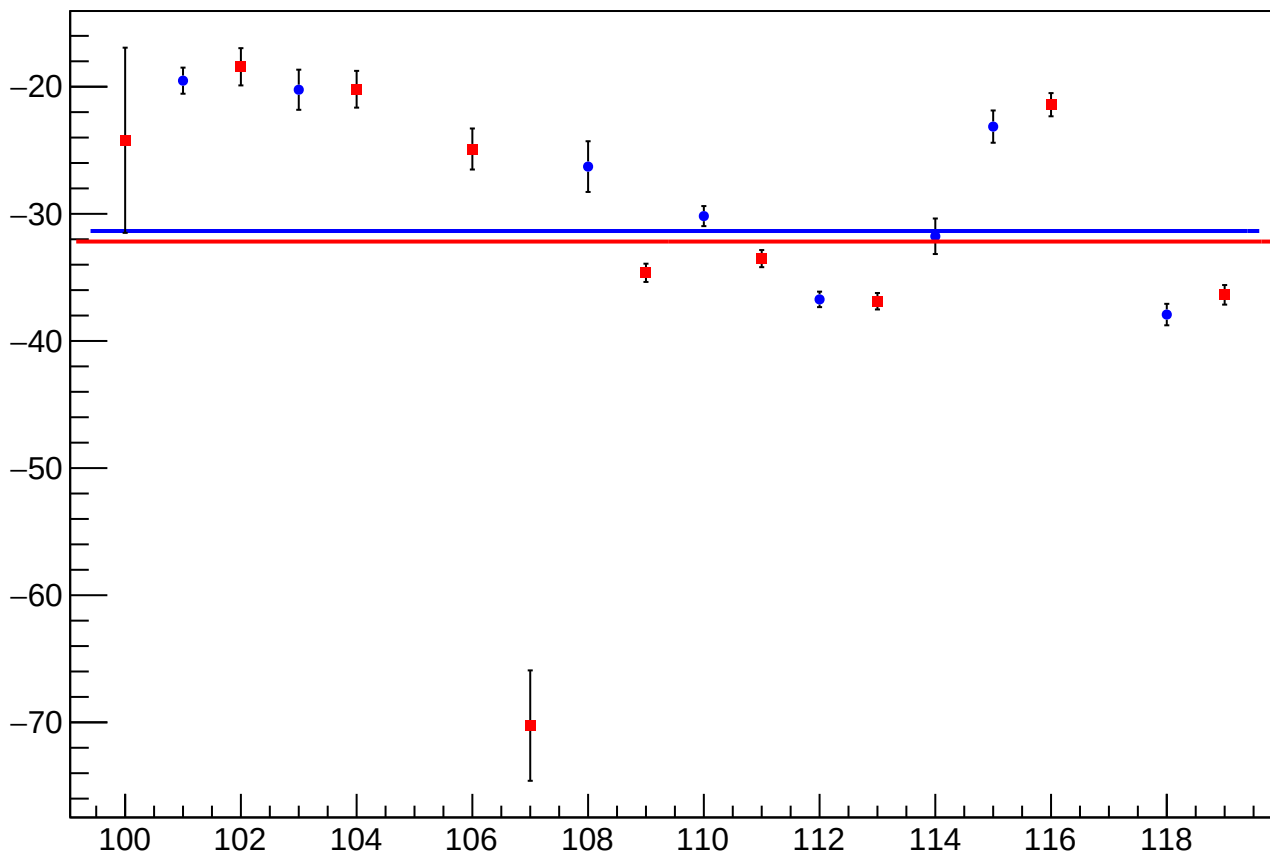
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.005  $\chi^2$ /NDF: 141.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -31.350+/-0.344  $\chi^2/\text{NDF}$ : 371.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32.180+/-0.304  $\chi^2/\text{NDF}$ : 492.1/9

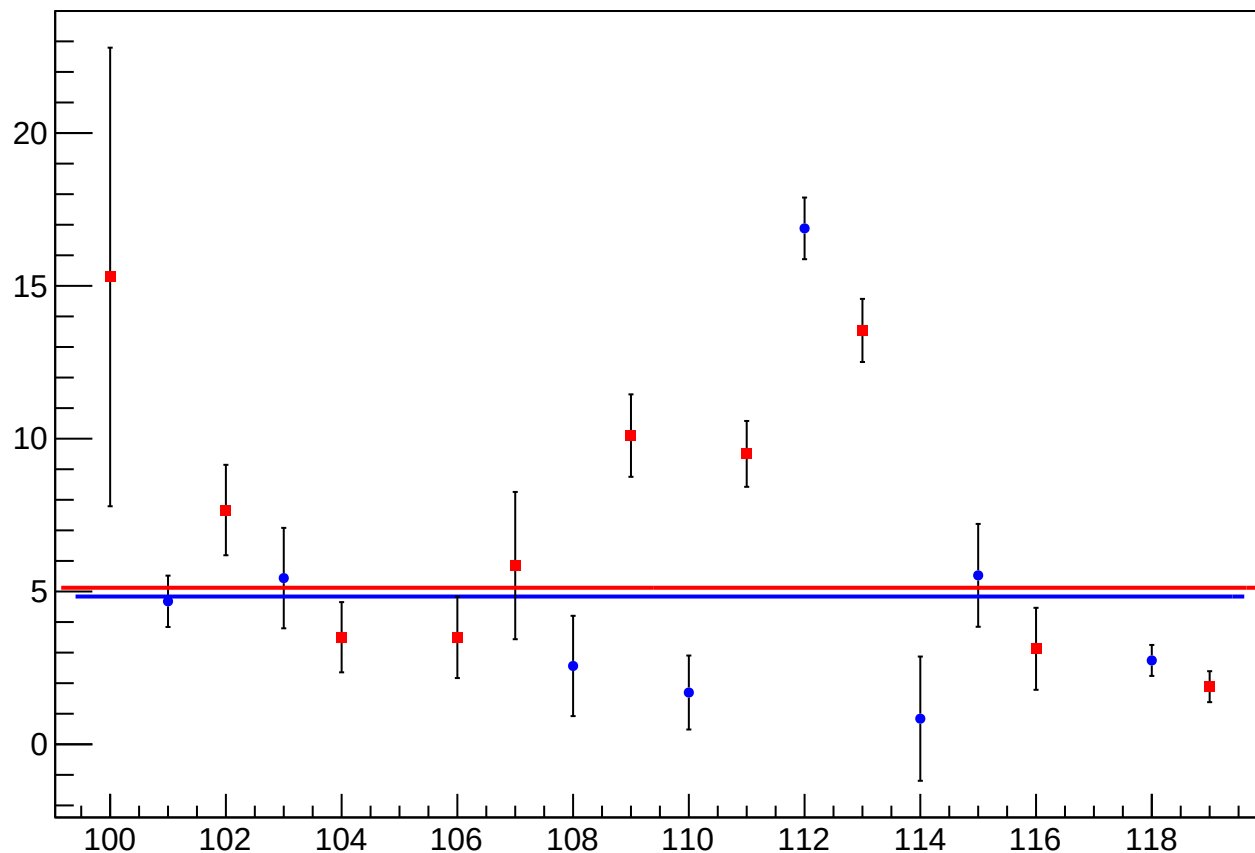
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -31.816+/-0.228  $\chi^2/\text{NDF}$ : 866.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 4.835+/-0.347  $\chi^2/\text{NDF}$ : 172.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.122+/-0.338  $\chi^2/\text{NDF}$ : 148.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

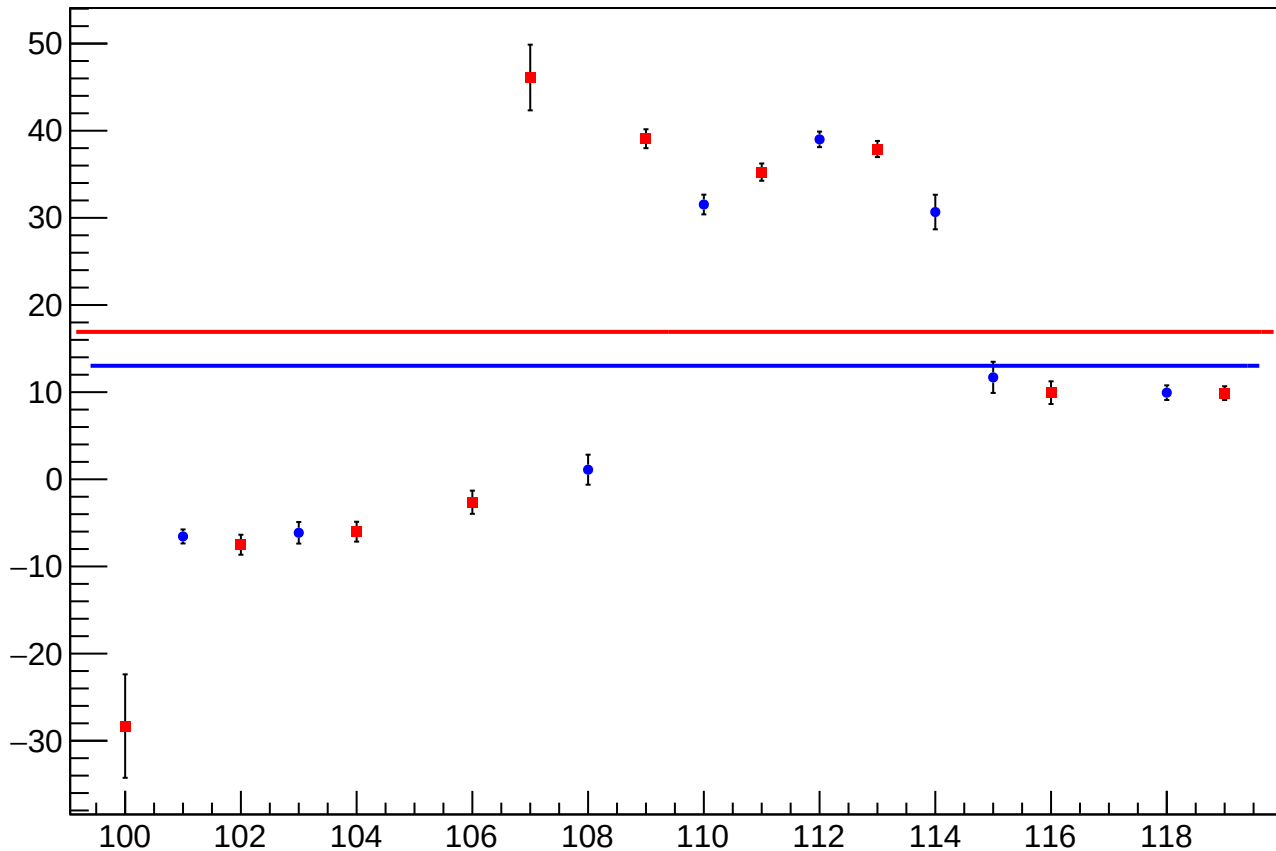
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.983+/-0.242  $\chi^2/\text{NDF}$ : 320.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 13.027+/-0.390  $\chi^2/\text{NDF}$ : 2091.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16.918+/-0.367  $\chi^2/\text{NDF}$ : 2570.3/9

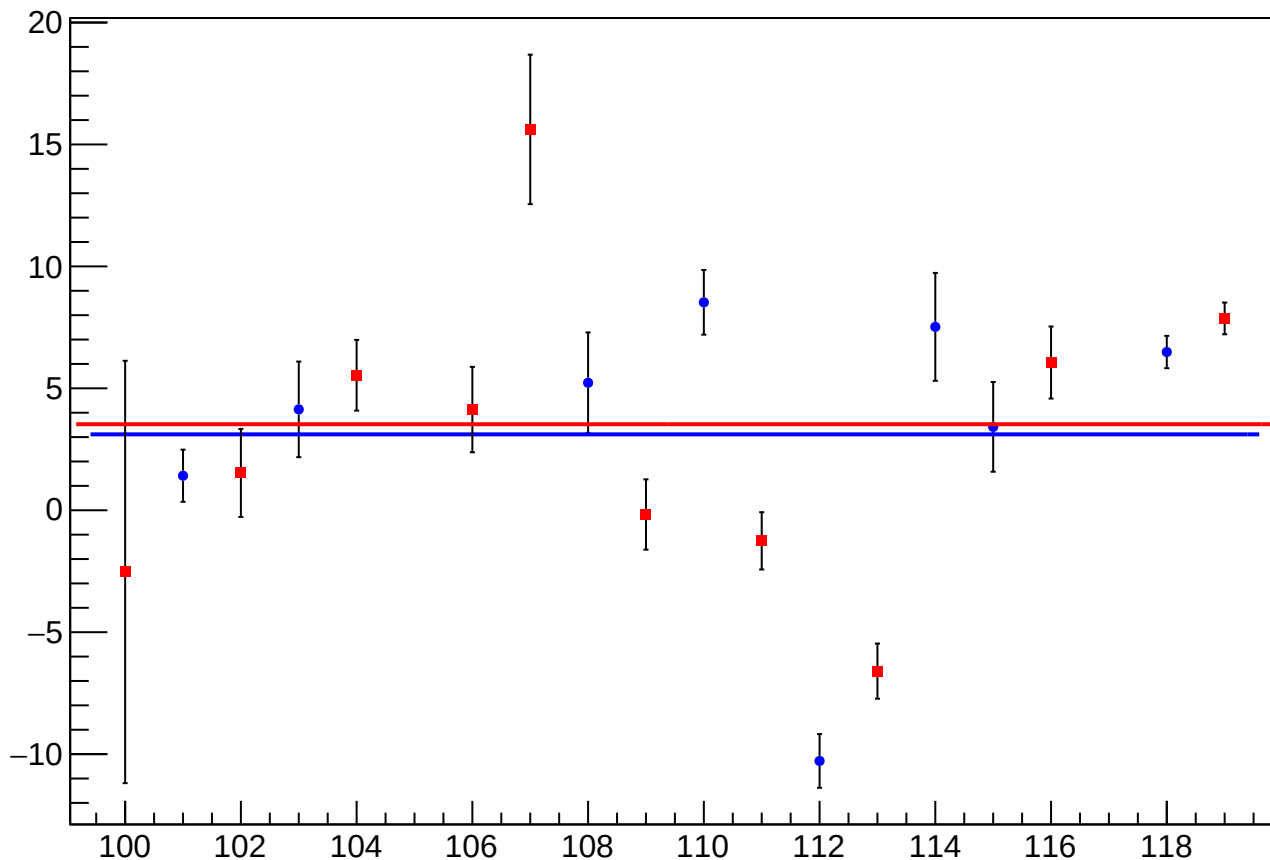
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15.093+/-0.267  $\chi^2/\text{NDF}$ : 4714.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 3.113 $\pm$ 0.425  $\chi^2$ /NDF: 198.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.527 $\pm$ 0.407  $\chi^2$ /NDF: 170.1/9

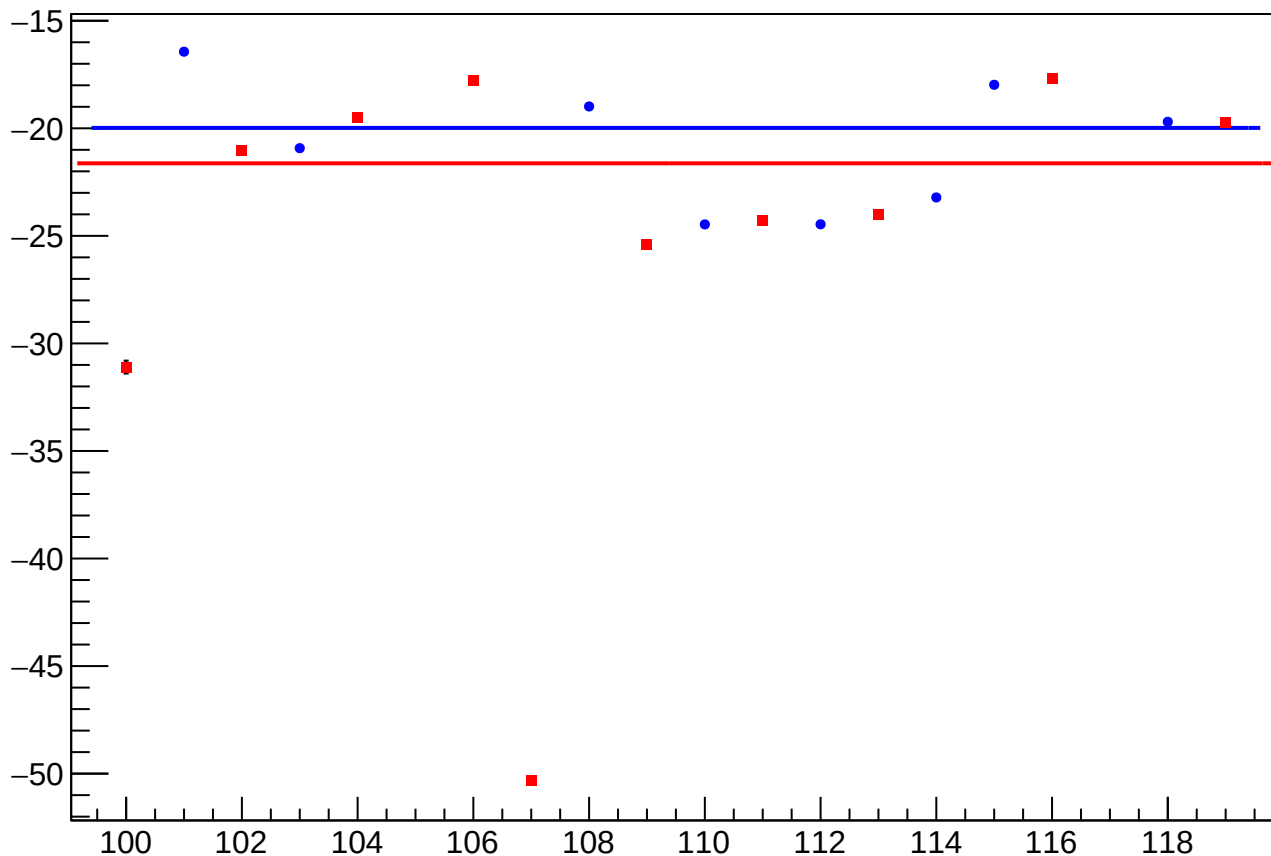
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.329 $\pm$ 0.294  $\chi^2$ /NDF: 368.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.981 \pm 0.025$   $\chi^2/\text{NDF}: 13109.8/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-21.627 \pm 0.023$   $\chi^2/\text{NDF}: 48705.3/9$

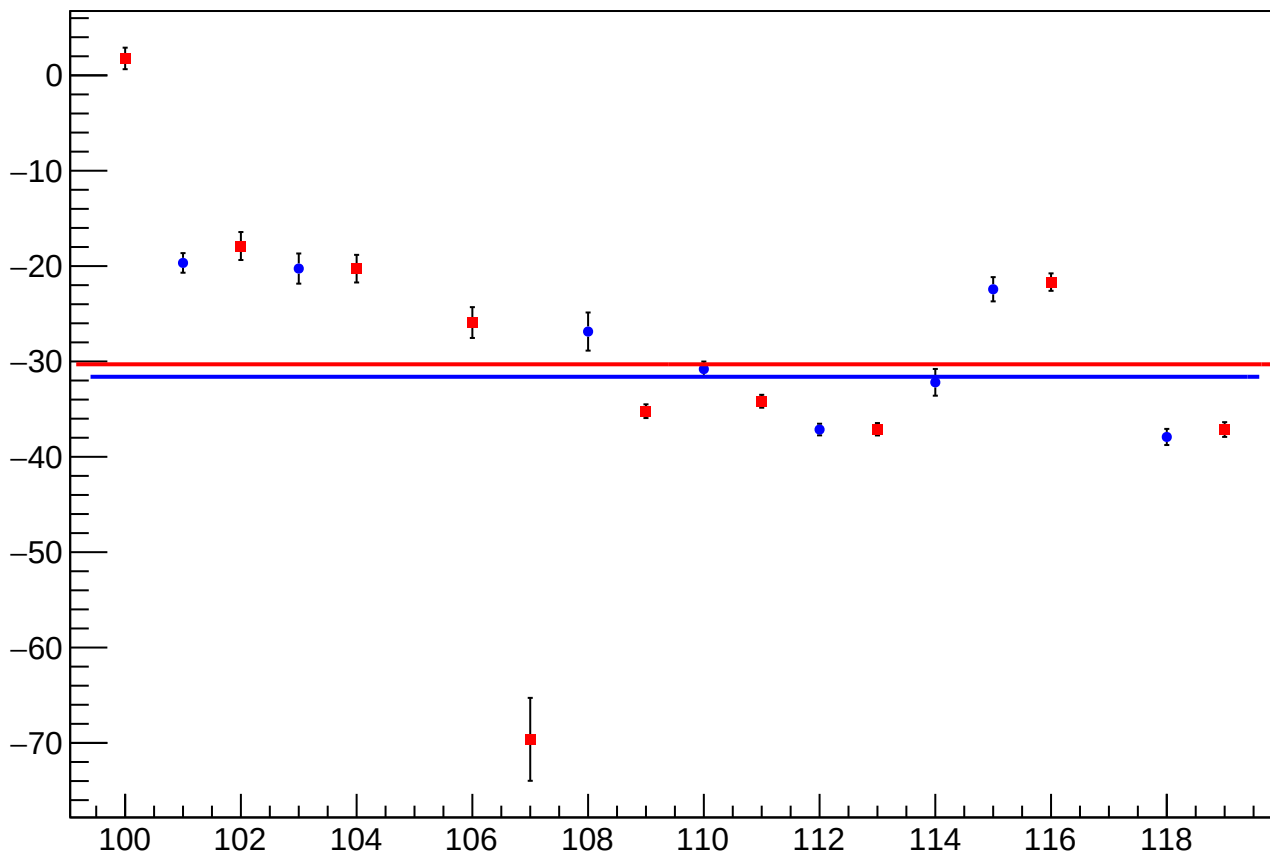
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-20.864 \pm 0.017$   $\chi^2/\text{NDF}: 64226.6/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-31.607 \pm 0.345$   $\chi^2/\text{NDF}$ : 383.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-30.299 \pm 0.294$   $\chi^2/\text{NDF}$ : 1373.5/9

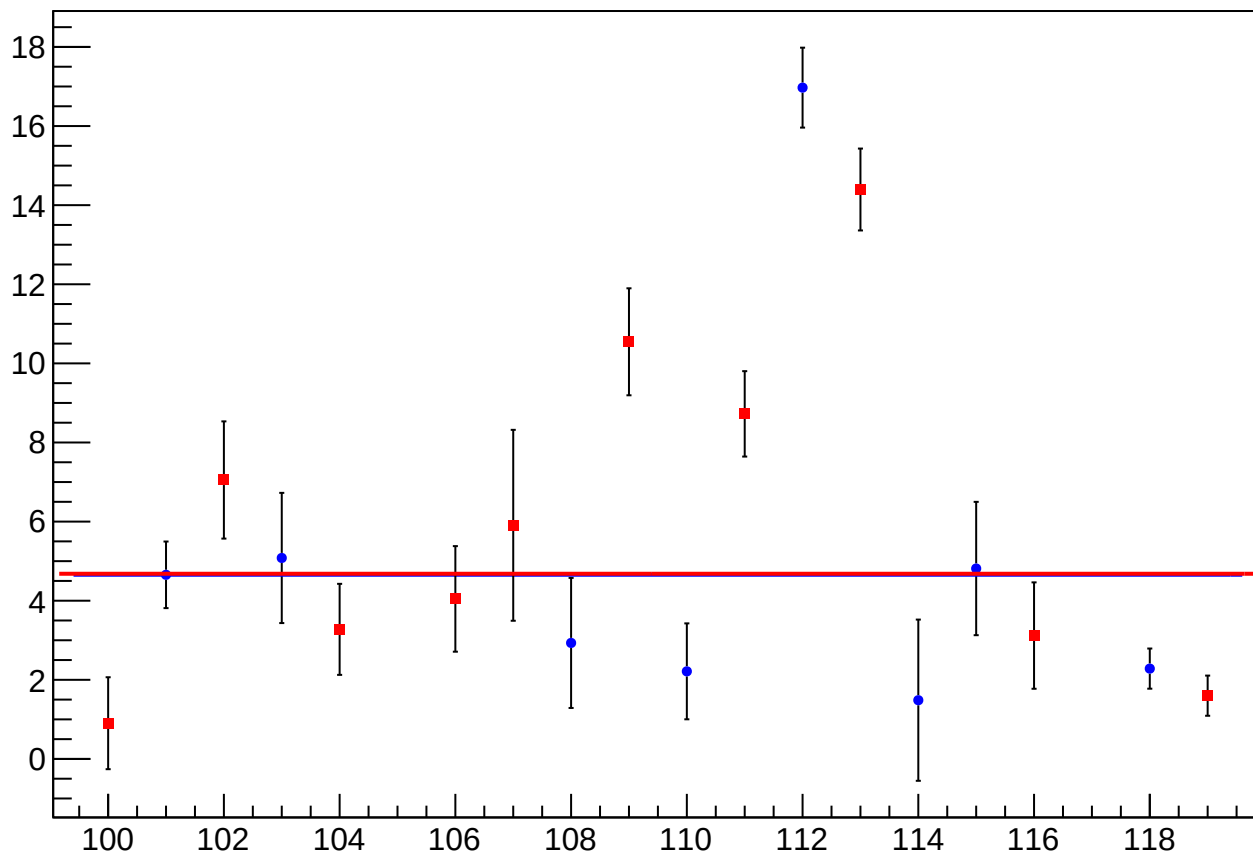
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-30.851 \pm 0.224$   $\chi^2/\text{NDF}$ : 1765.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 4.657+/-0.347  $\chi^2/\text{NDF}$ : 178.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.681+/-0.325  $\chi^2/\text{NDF}$ : 174.2/9

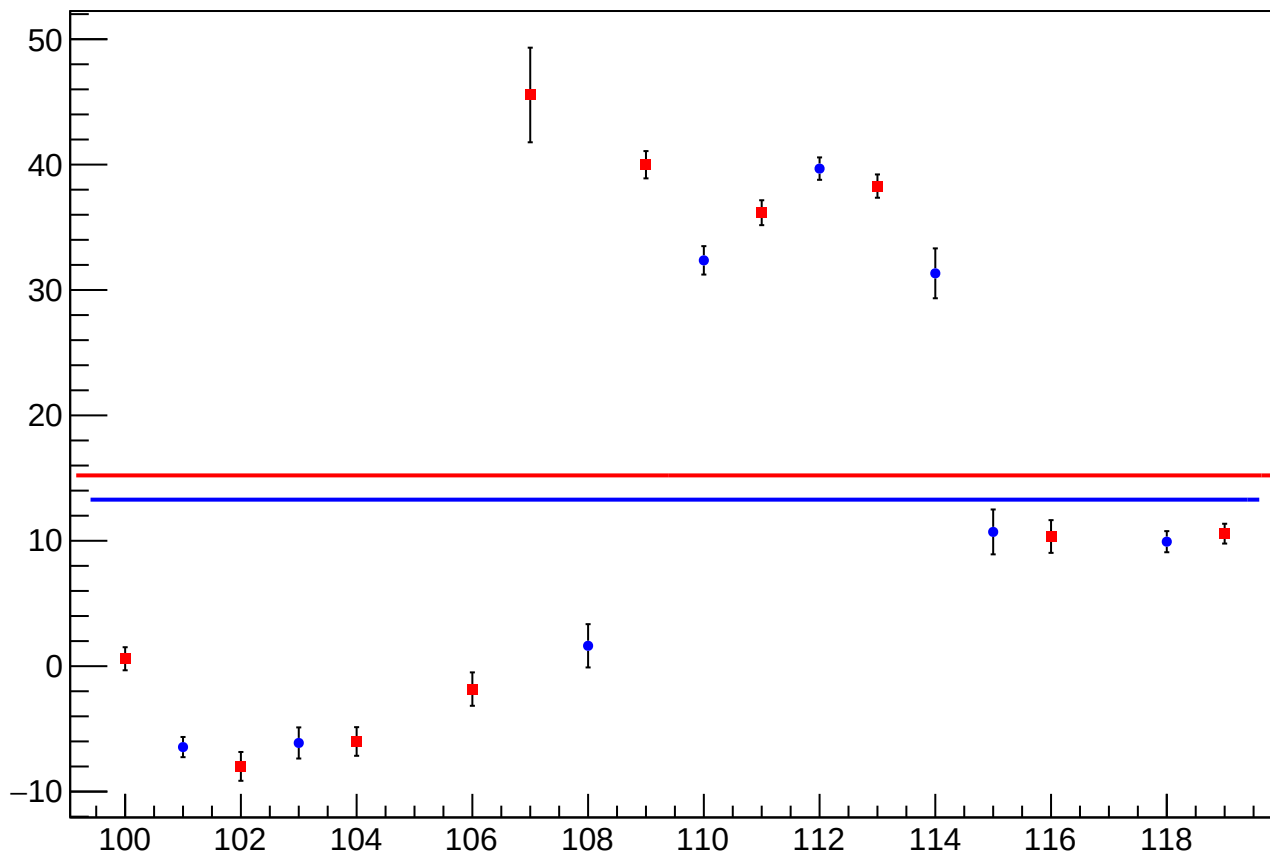
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.670+/-0.237  $\chi^2/\text{NDF}$ : 352.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 13.280 $\pm$ 0.391  $\chi^2$ /NDF: 2148.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 15.213 $\pm$ 0.342  $\chi^2$ /NDF: 2862.3/9

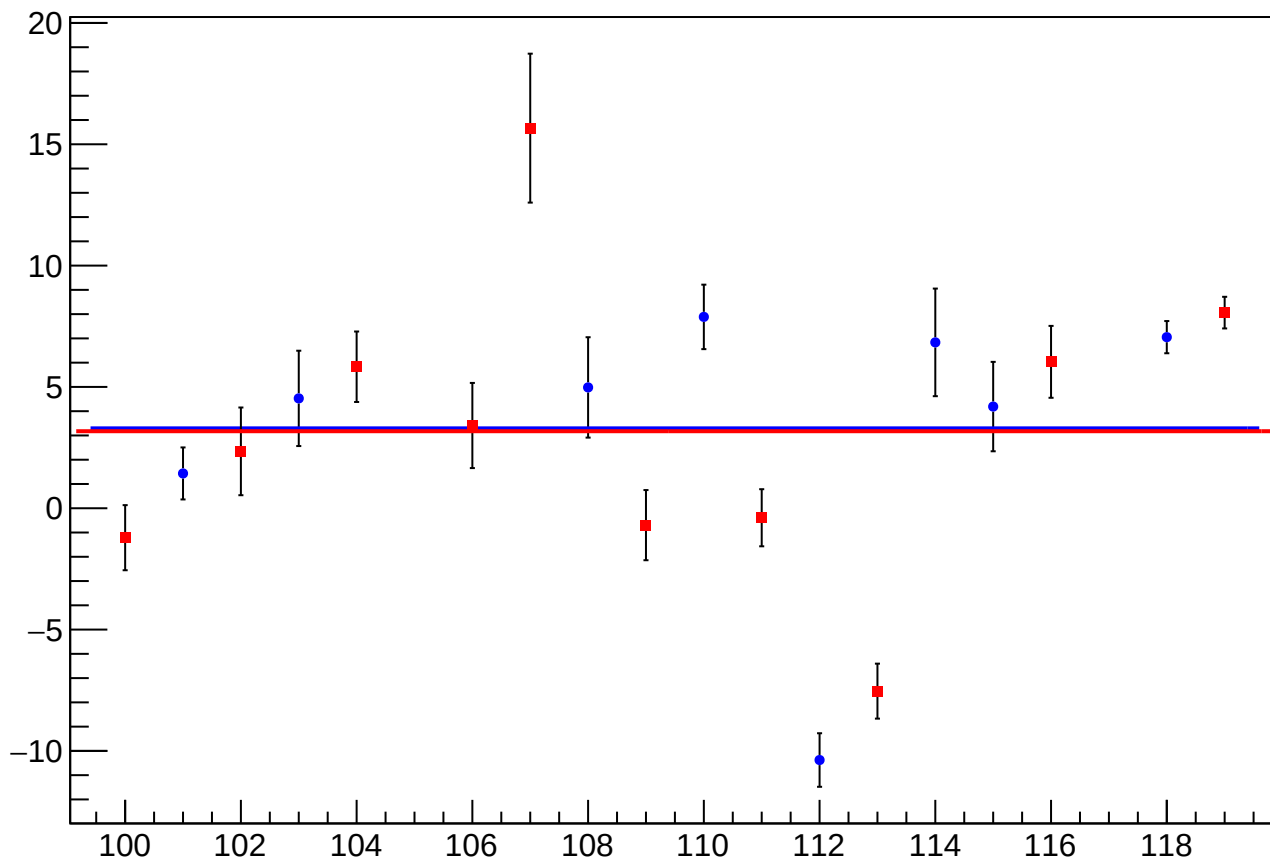
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 14.376 $\pm$ 0.257  $\chi^2$ /NDF: 5024.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 3.292 $\pm$ 0.426  $\chi^2$ /NDF: 204.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.175 $\pm$ 0.391  $\chi^2$ /NDF: 196.5/9

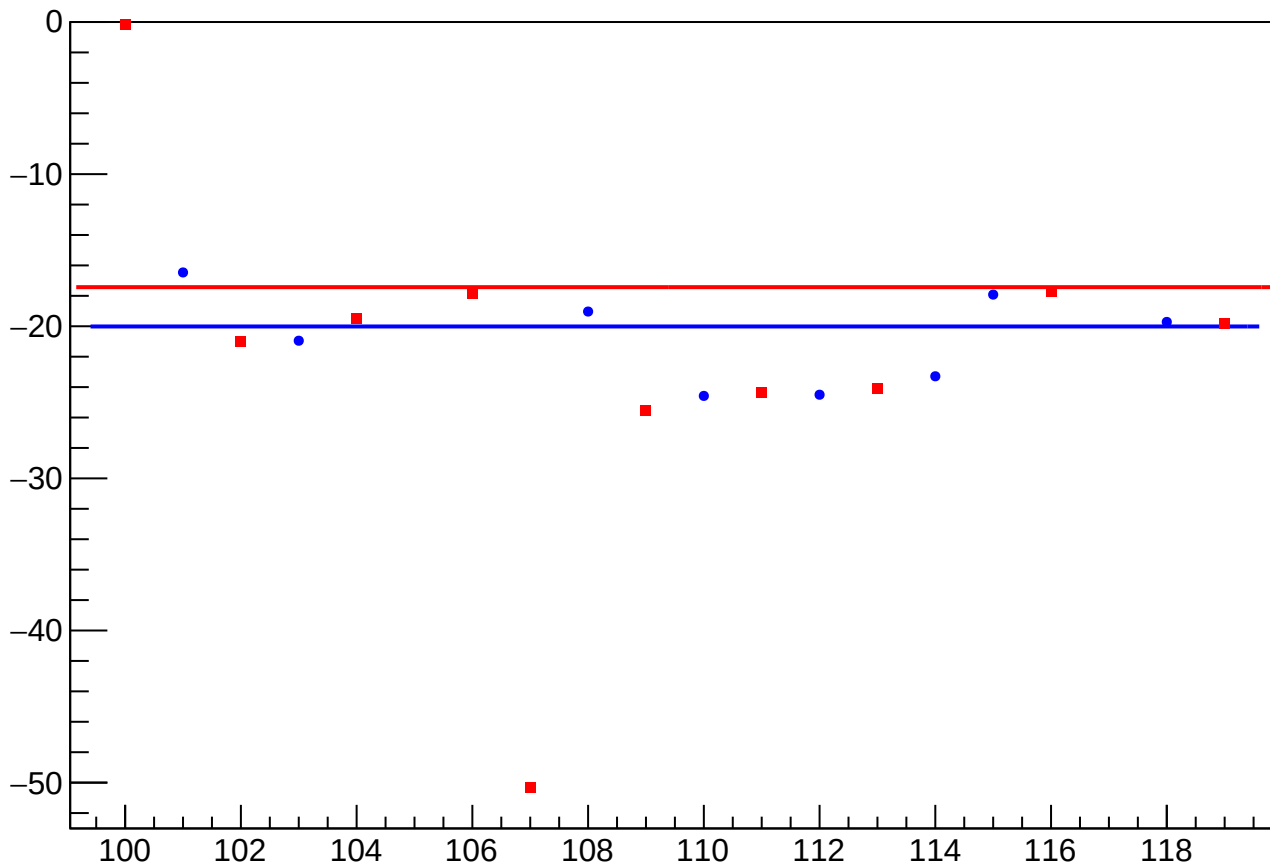
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.228 $\pm$ 0.288  $\chi^2$ /NDF: 400.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -20.014 $\pm$ 0.025  $\chi^2$ /NDF: 13198.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -17.429 $\pm$ 0.021  $\chi^2$ /NDF: 218234.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

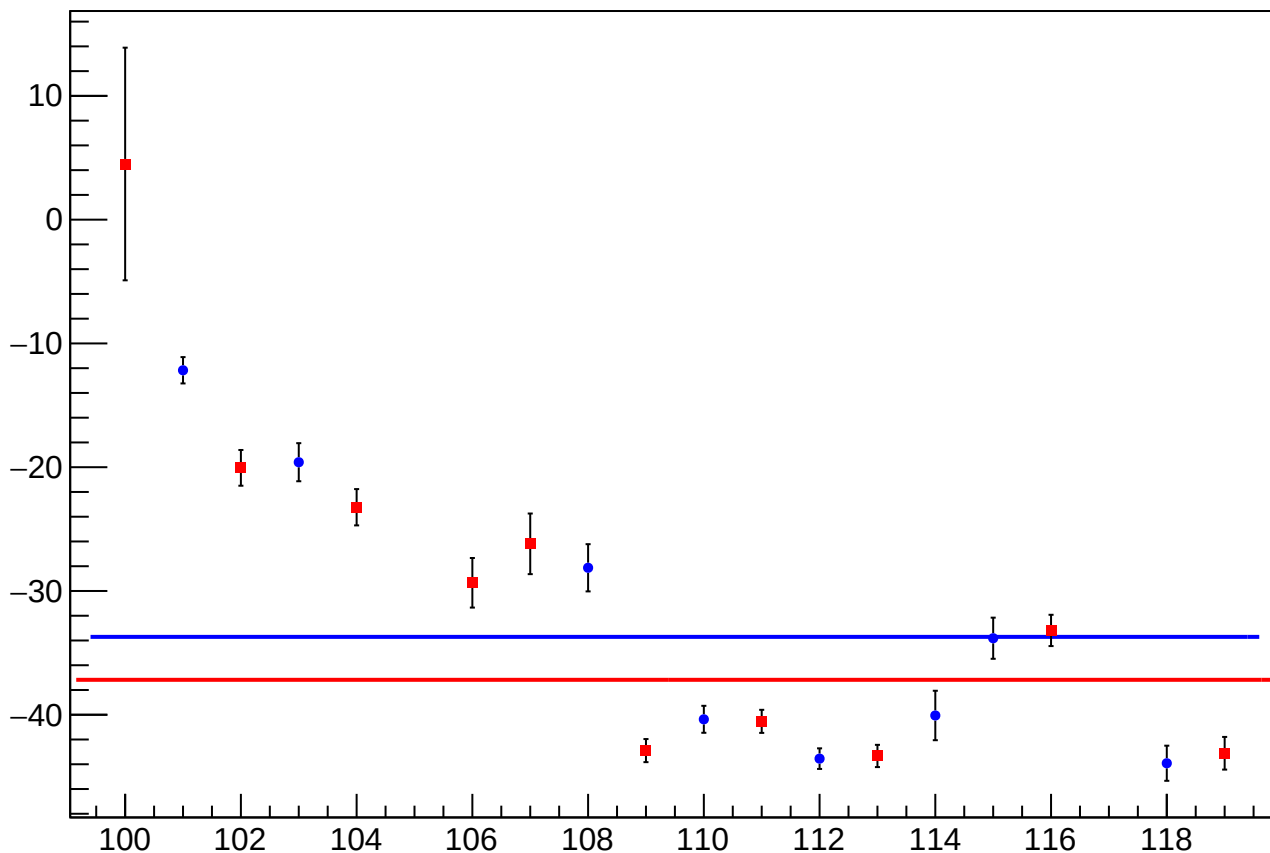
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -18.494 $\pm$ 0.016  $\chi^2$ /NDF: 237925.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-33.708 \pm 0.448$   $\chi^2/\text{NDF}: 741.7/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-37.178 \pm 0.405$   $\chi^2/\text{NDF}: 413.7/9$

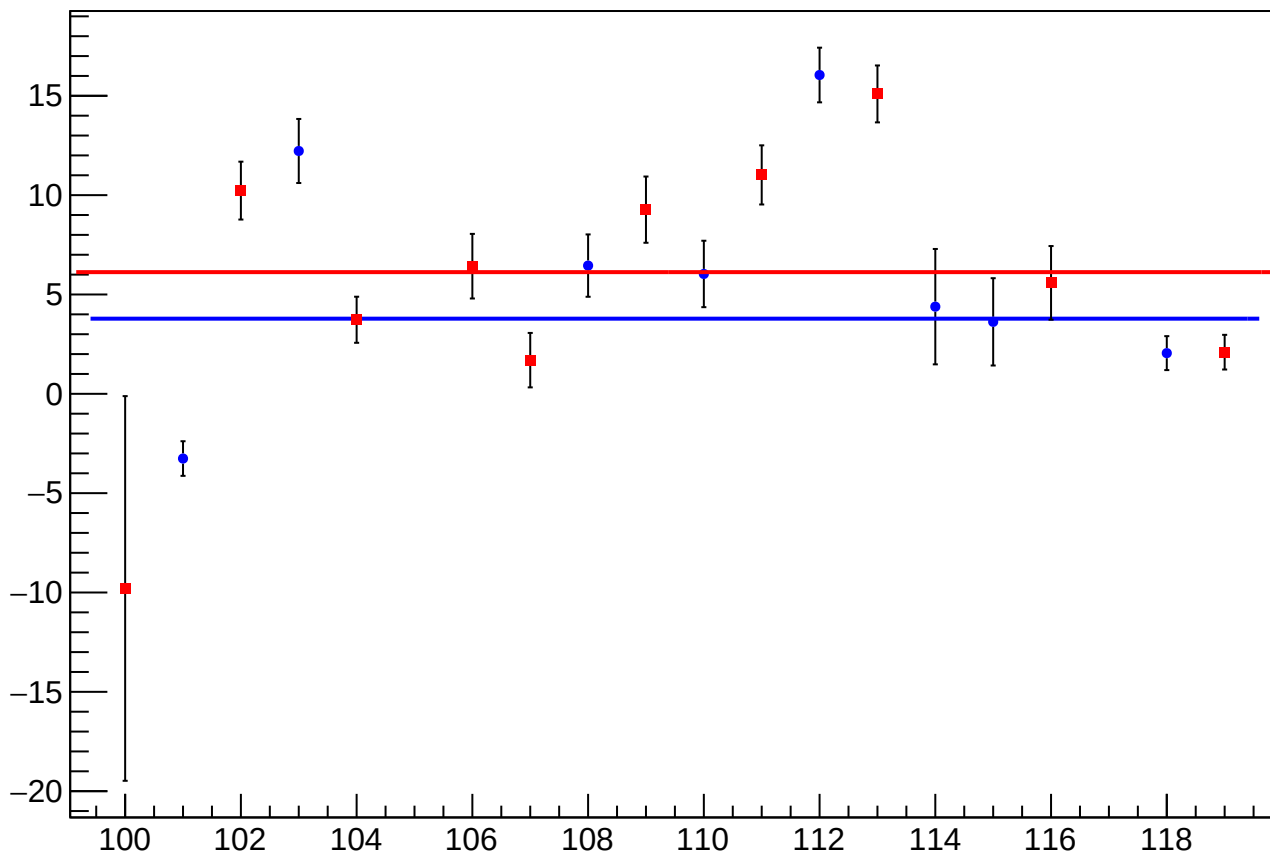
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-35.620 \pm 0.300$   $\chi^2/\text{NDF}: 1188.4/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 3.783 $\pm$ 0.462  $\chi^2$ /NDF: 181.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6.125 $\pm$ 0.445  $\chi^2$ /NDF: 100.4/9

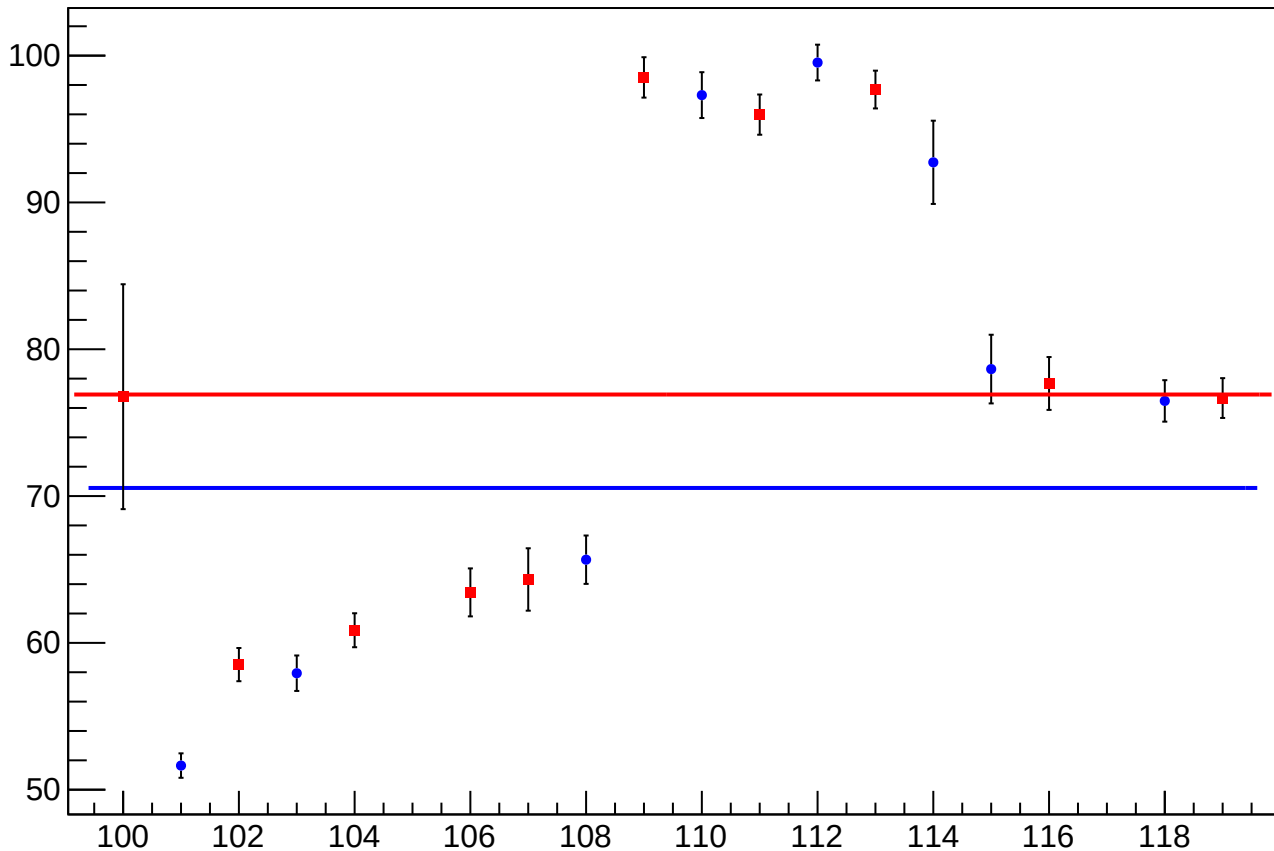
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.996 $\pm$ 0.321  $\chi^2$ /NDF: 294.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 70.552 $\pm$ 0.477  $\chi^2$ /NDF: 1584.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 76.917 $\pm$ 0.463  $\chi^2$ /NDF: 1261.4/9

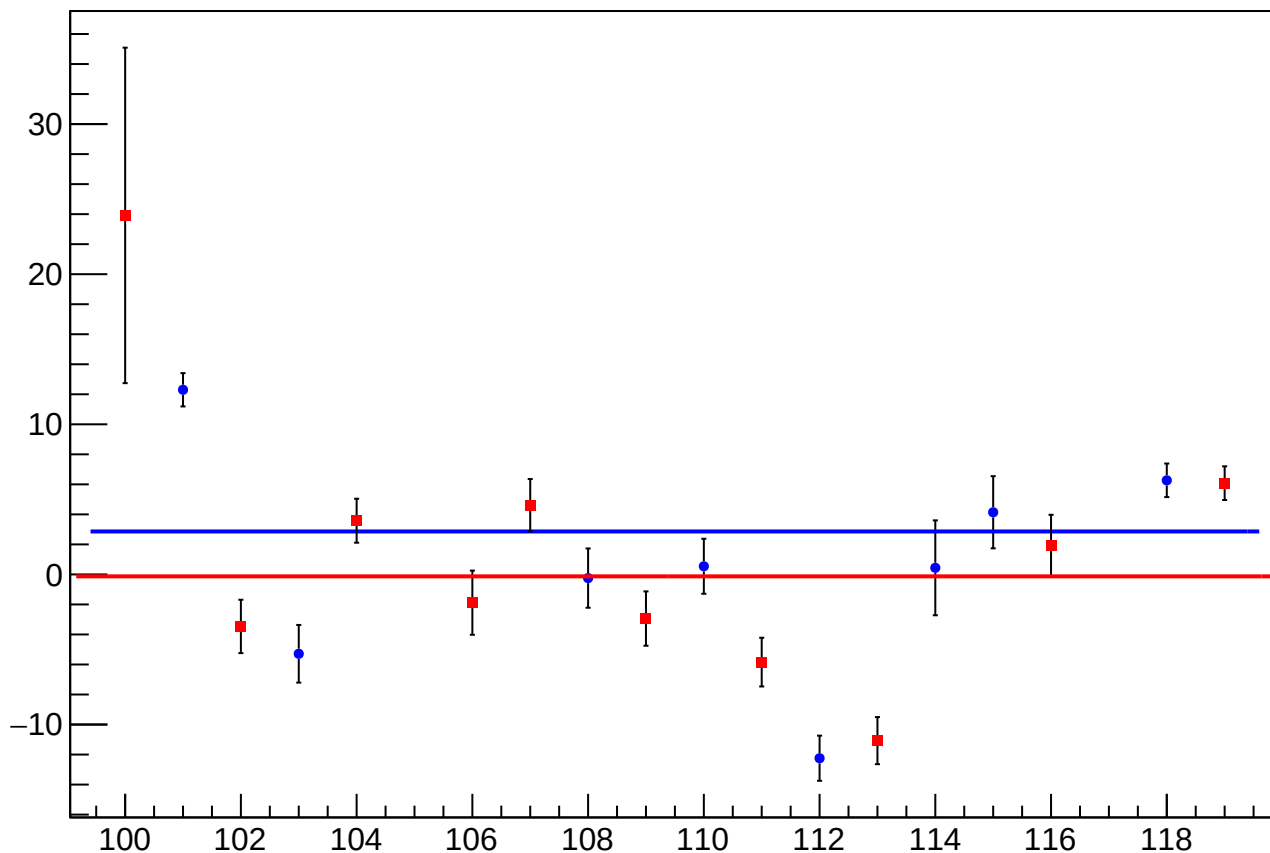
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 73.830 $\pm$ 0.332  $\chi^2$ /NDF: 2937.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 2.862 $\pm$ 0.563  $\chi^2$ /NDF: 205.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.129 $\pm$ 0.537  $\chi^2$ /NDF: 117.7/9

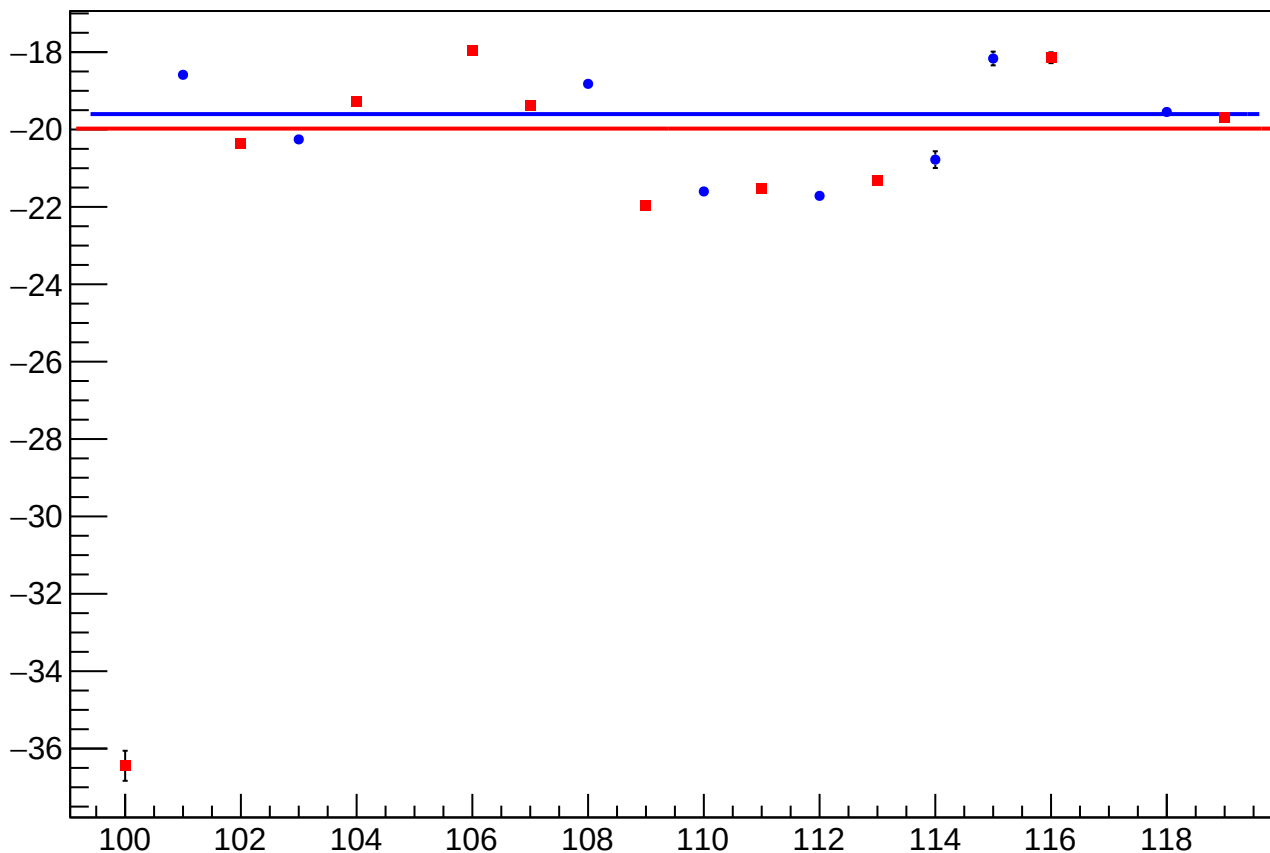
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.296 $\pm$ 0.389  $\chi^2$ /NDF: 338.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.601 \pm 0.027$   $\chi^2/\text{NDF}$ : 1545.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-19.976 \pm 0.026$   $\chi^2/\text{NDF}$ : 3759.4/9

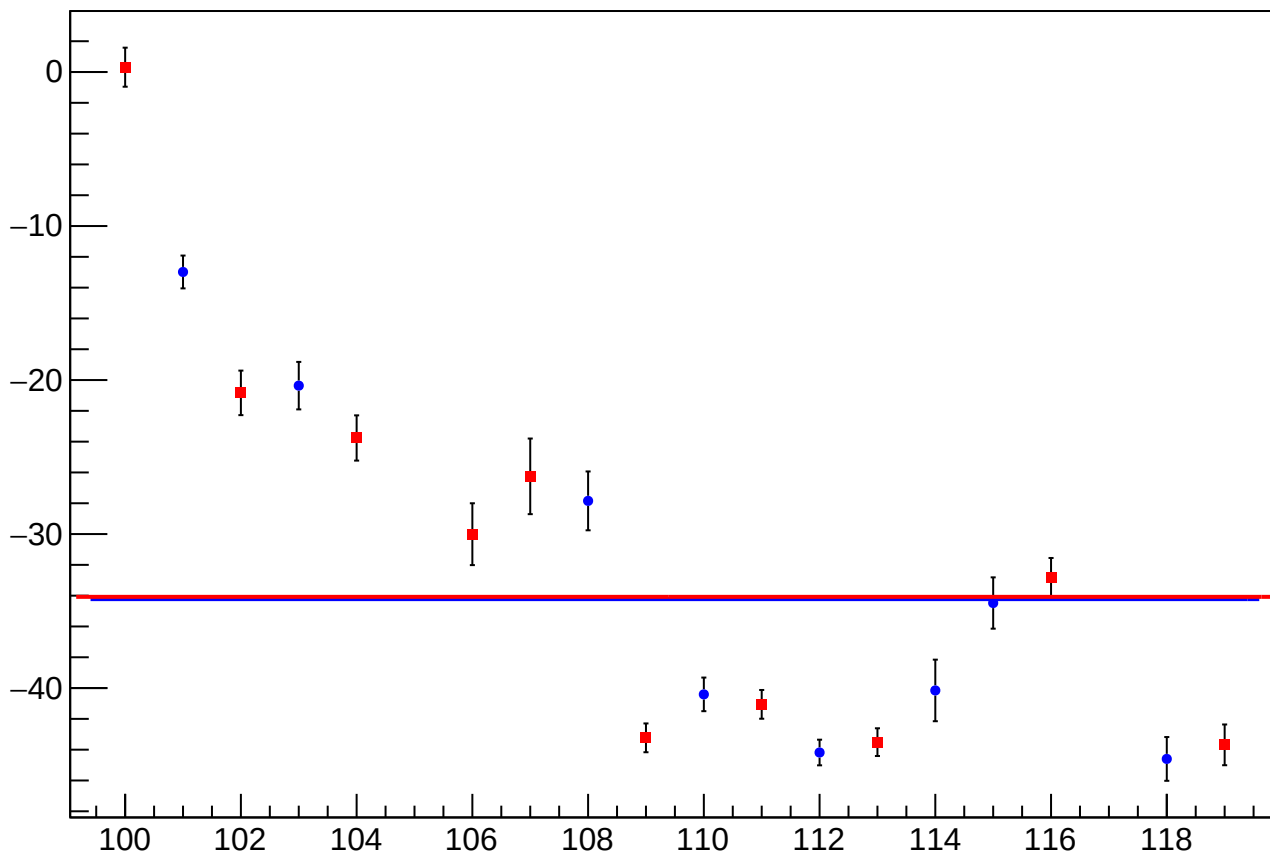
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-19.799 \pm 0.019$   $\chi^2/\text{NDF}$ : 5402.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -34.224 $\pm$ 0.449  $\chi^2$ /NDF: 726.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -34.077 $\pm$ 0.386  $\chi^2$ /NDF: 1198.8/9

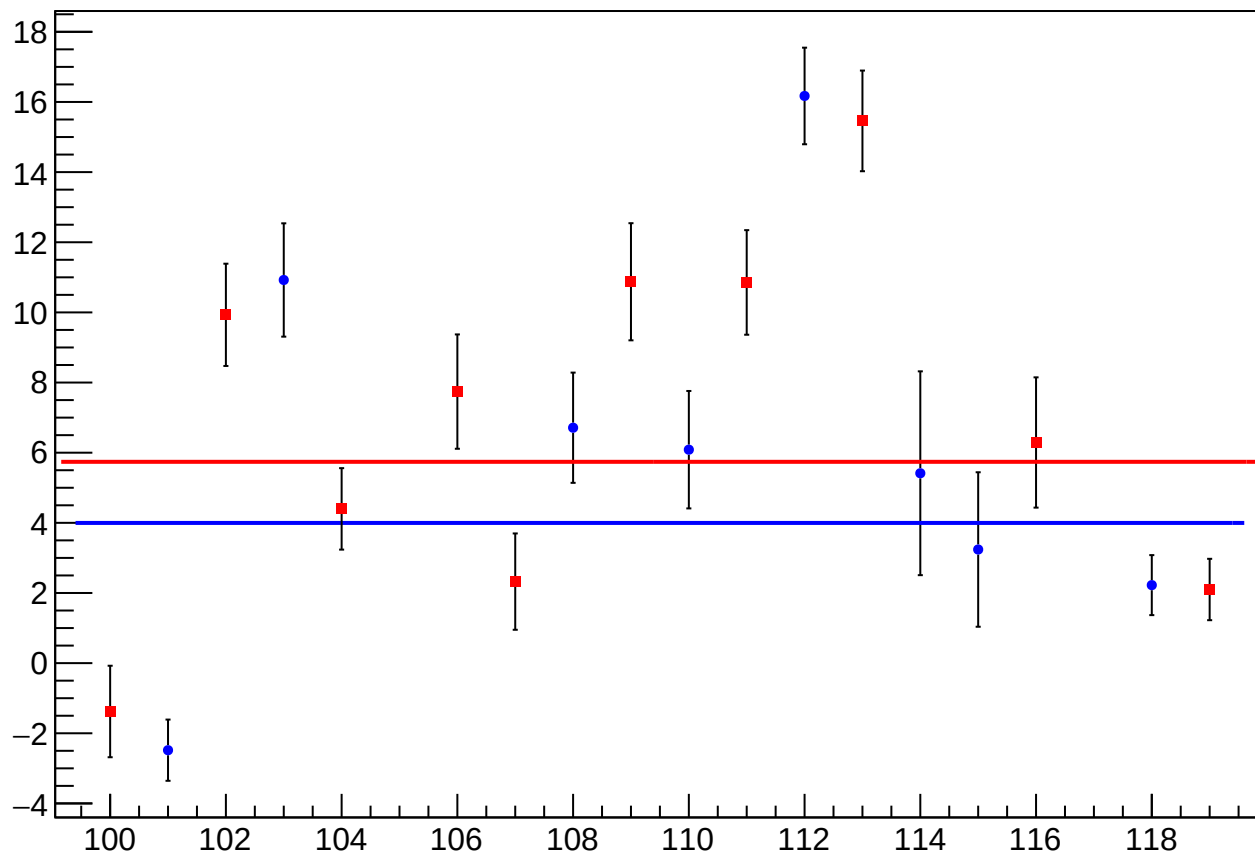
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -34.140 $\pm$ 0.293  $\chi^2$ /NDF: 1925.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 3.997+/-0.462  $\chi^2/\text{NDF}$ : 160.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.740+/-0.423  $\chi^2/\text{NDF}$ : 131.6/9

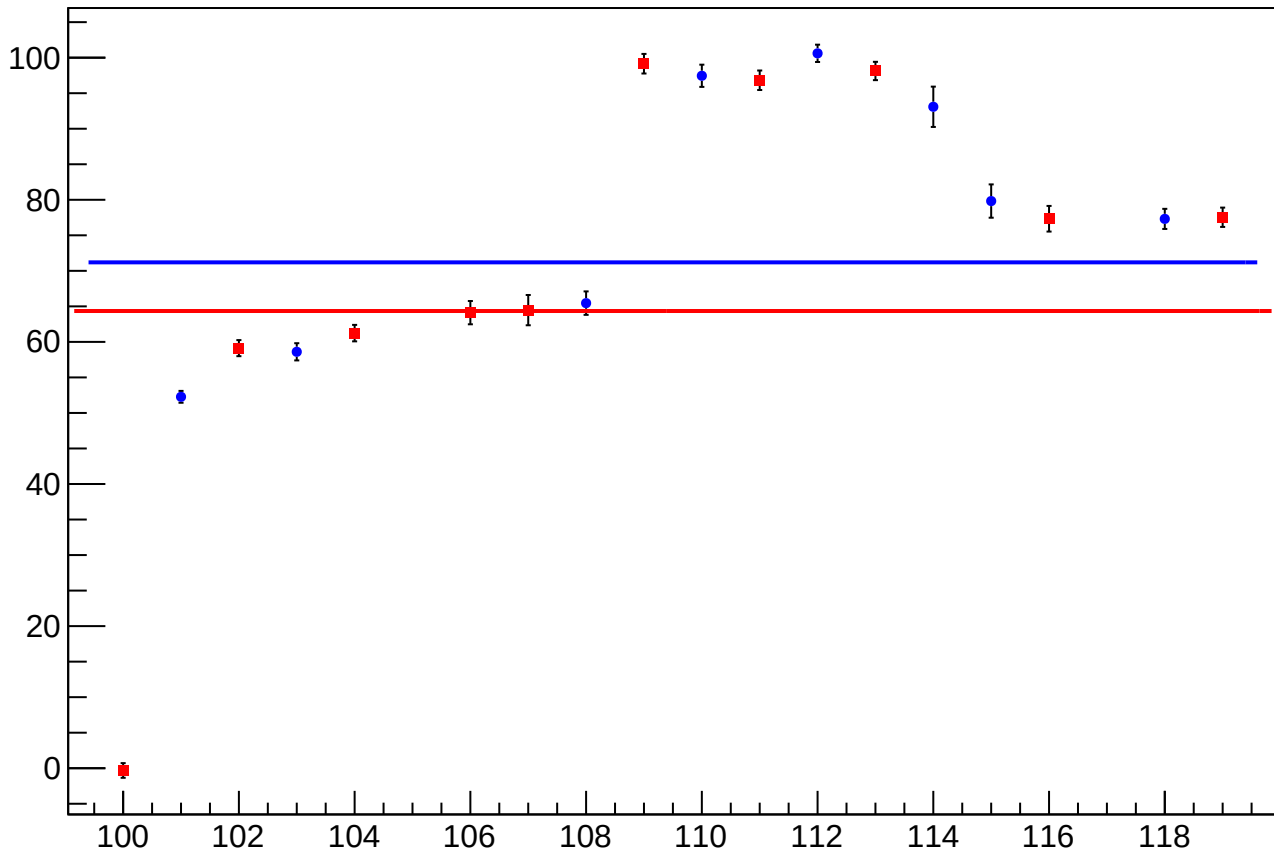
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.947+/-0.312  $\chi^2/\text{NDF}$ : 300.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 71.194 $\pm$ 0.478  $\chi^2$ /NDF: 1591.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 64.347 $\pm$ 0.424  $\chi^2$ /NDF: 5976.2/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

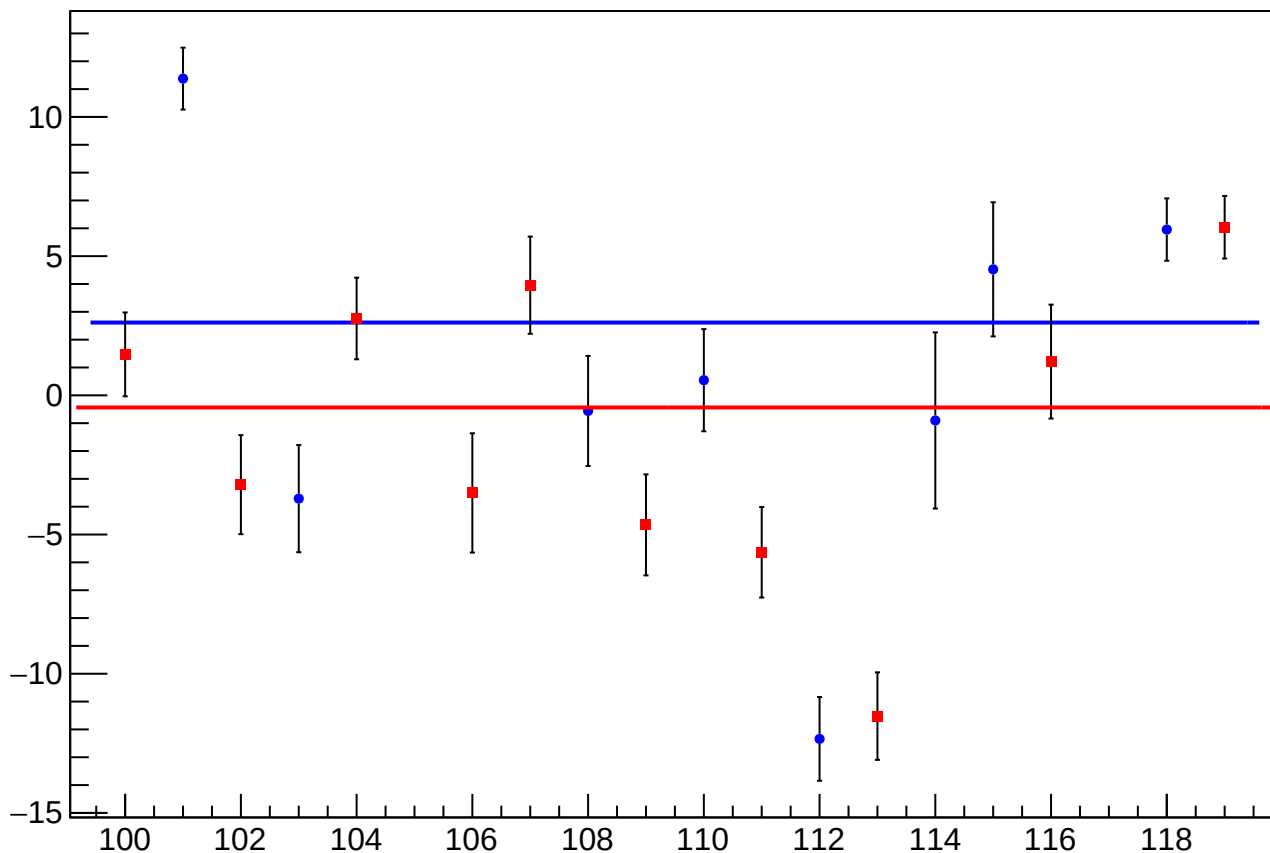
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 67.361 $\pm$ 0.317  $\chi^2$ /NDF: 7682.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 2.615 $\pm$ 0.564  $\chi^2$ /NDF: 186.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.436 $\pm$ 0.507  $\chi^2$ /NDF: 116.4/9

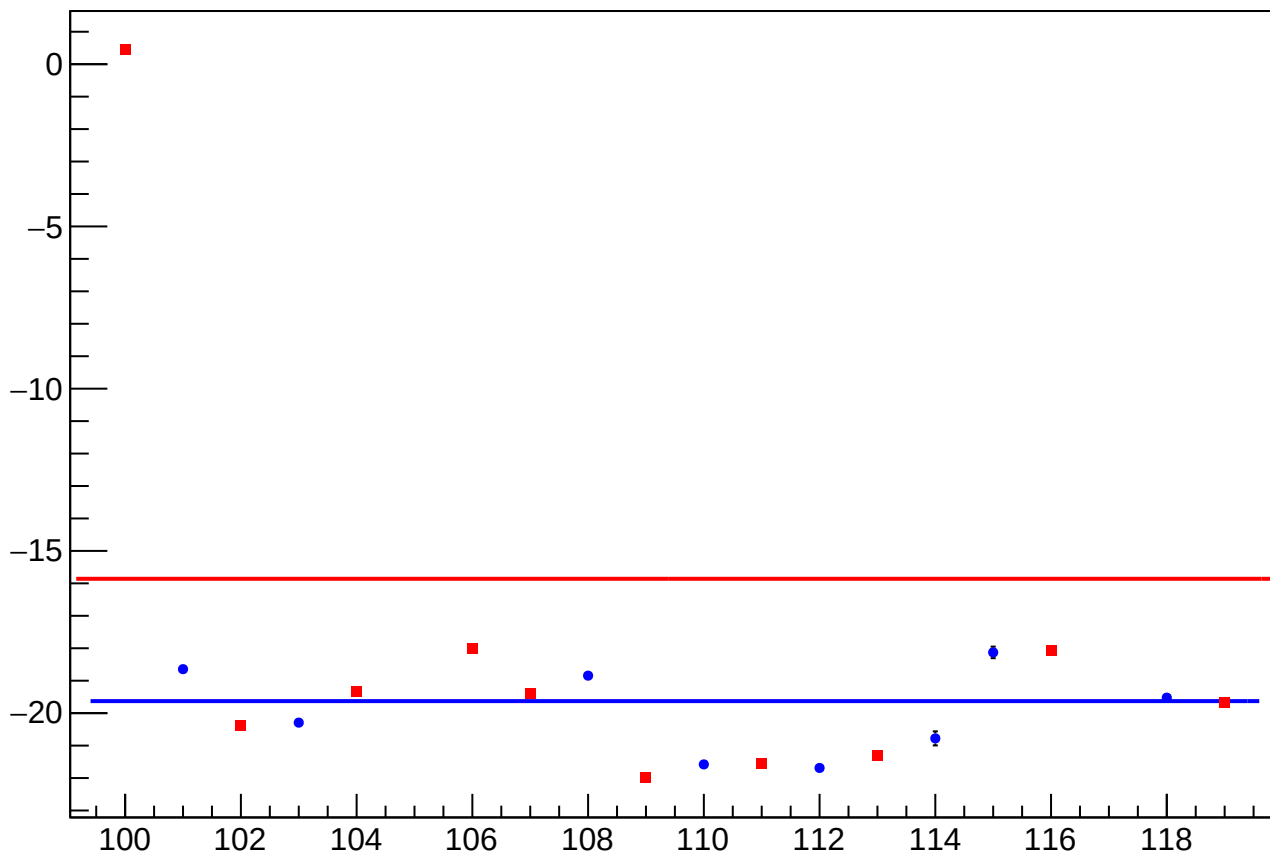
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.929 $\pm$ 0.377  $\chi^2$ /NDF: 318.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.629 \pm 0.028$   $\chi^2/\text{NDF}: 1491.2/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-15.859 \pm 0.023$   $\chi^2/\text{NDF}: 123398.0/9$

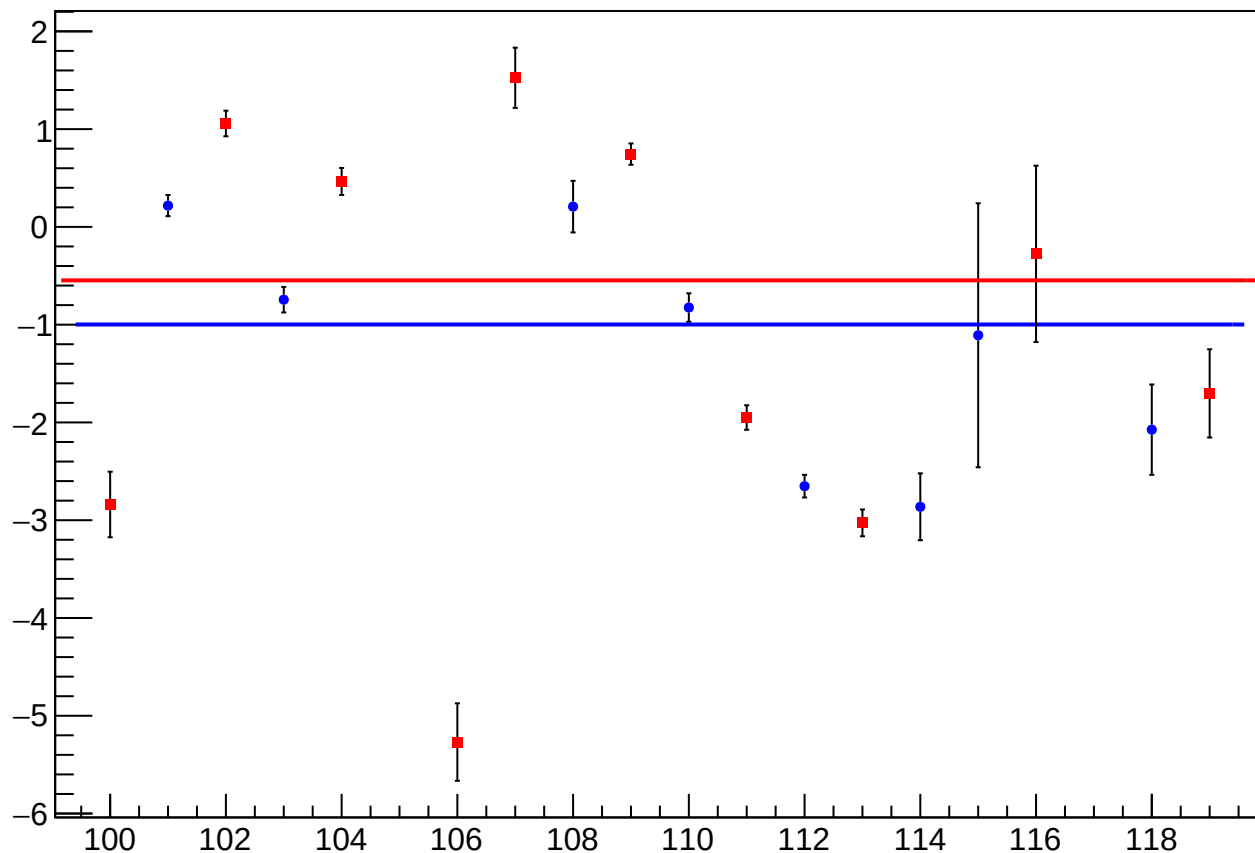
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-17.438 \pm 0.018$   $\chi^2/\text{NDF}: 135784.6/17$

- 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:  $-0.998 \pm 0.058$   $\chi^2/\text{NDF}$ : 391.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.547 \pm 0.054$   $\chi^2/\text{NDF}$ : 1036.5/9

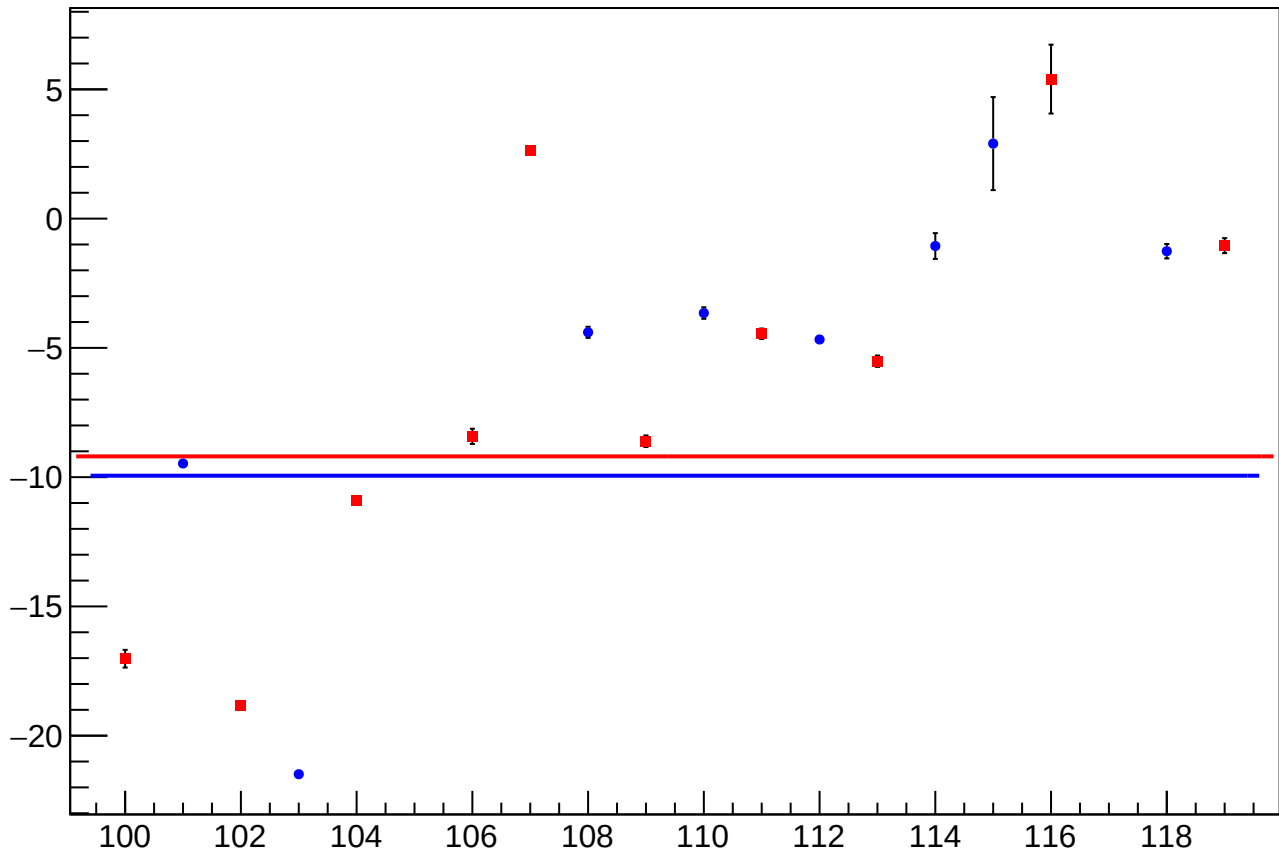
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.755 \pm 0.040$   $\chi^2/\text{NDF}$ : 1460.2/17

- 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: -9.944+/-0.061  $\chi^2/\text{NDF}$ : 10501.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9.196+/-0.062  $\chi^2/\text{NDF}$ : 12060.9/9

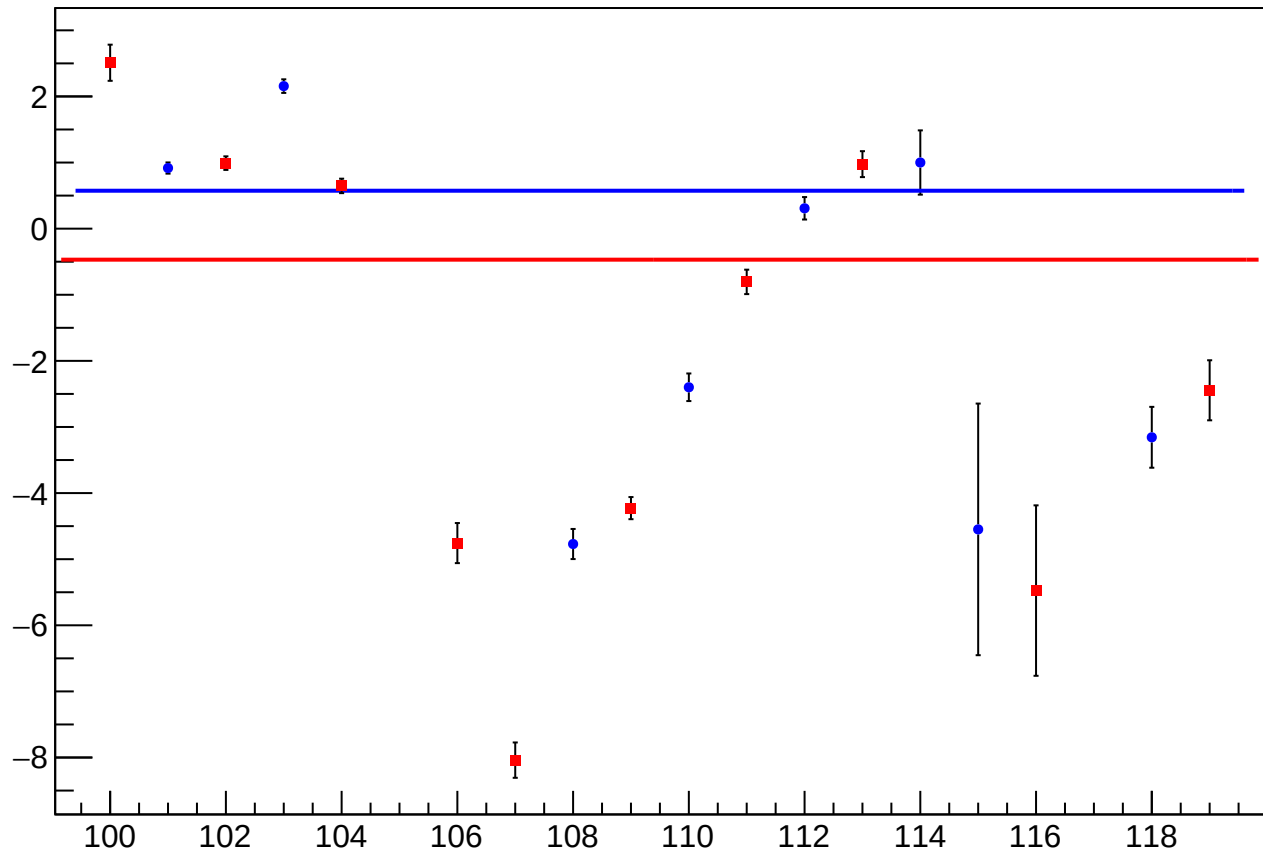
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.575+/-0.044  $\chi^2/\text{NDF}$ : 22635.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

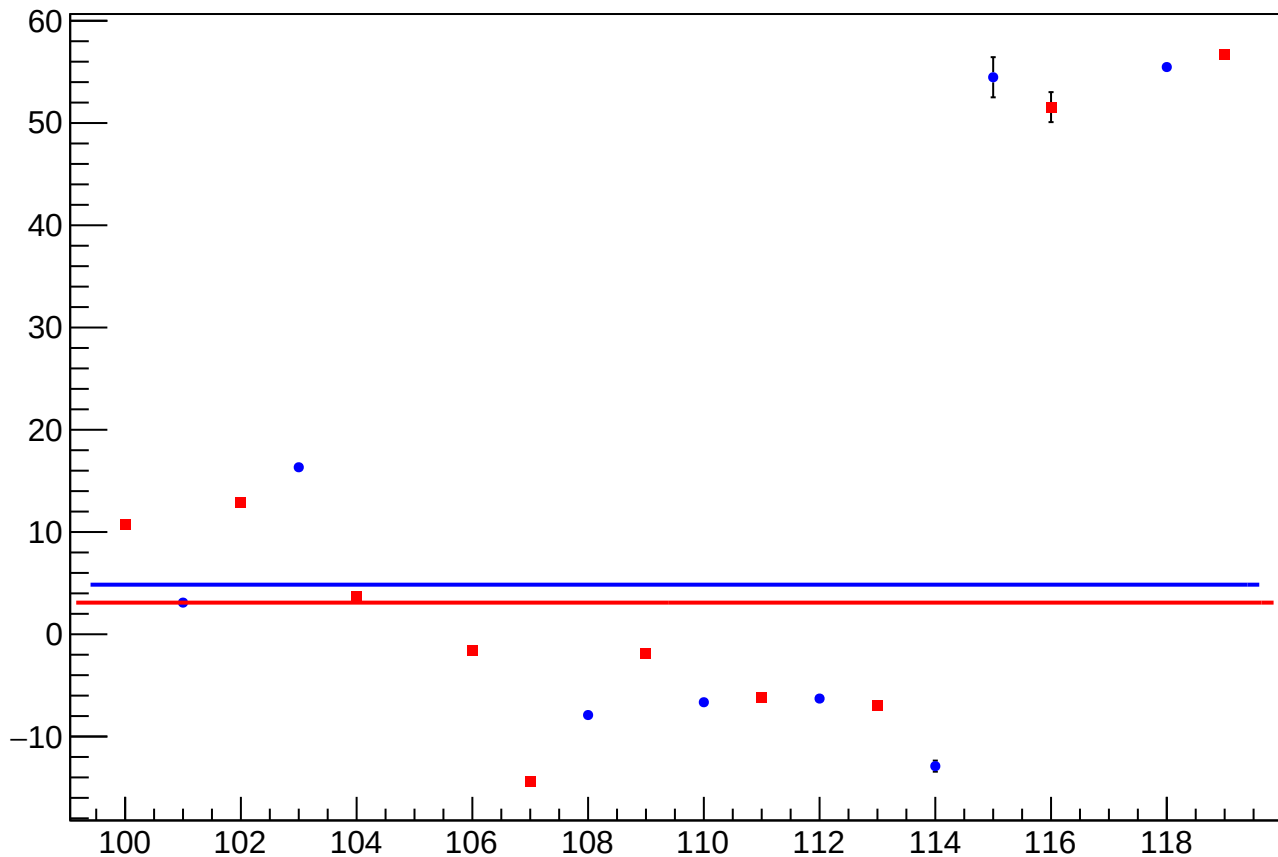
reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.574+/-0.056     $\chi^2/\text{NDF}$ : 1083.6/7  
 Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Right Out: -0.469+/-0.057     $\chi^2/\text{NDF}$ : 2023.2/9  
 Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.059+/-0.040     $\chi^2/\text{NDF}$ : 3279.1/17  
 - sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 4.850+/-0.074  $\chi^2/\text{NDF}$ : 33398.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.095+/-0.074  $\chi^2/\text{NDF}$ : 36142.9/9

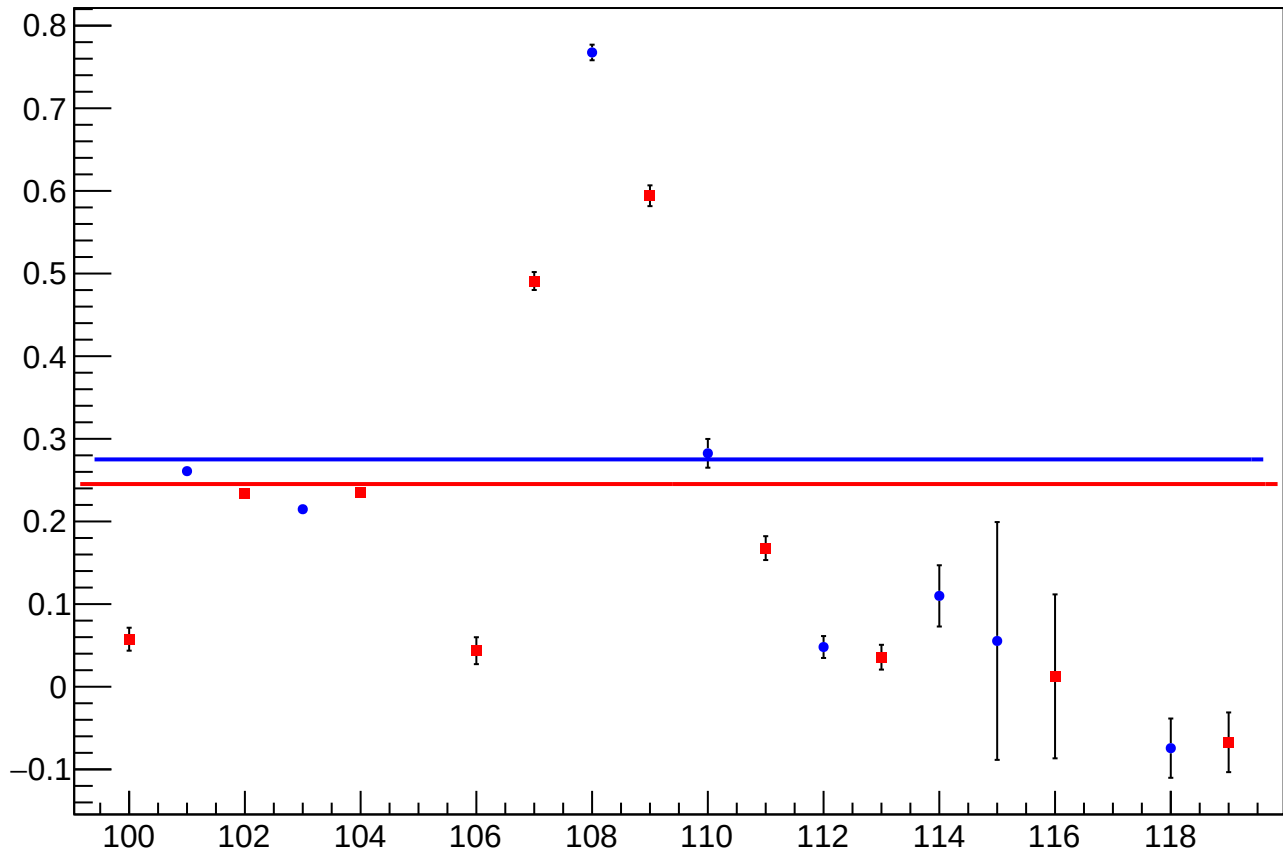
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.973+/-0.053  $\chi^2/\text{NDF}$ : 69819.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.275 $\pm$ 0.003  $\chi^2$ /NDF: 3344.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.245 $\pm$ 0.003  $\chi^2$ /NDF: 1932.8/9

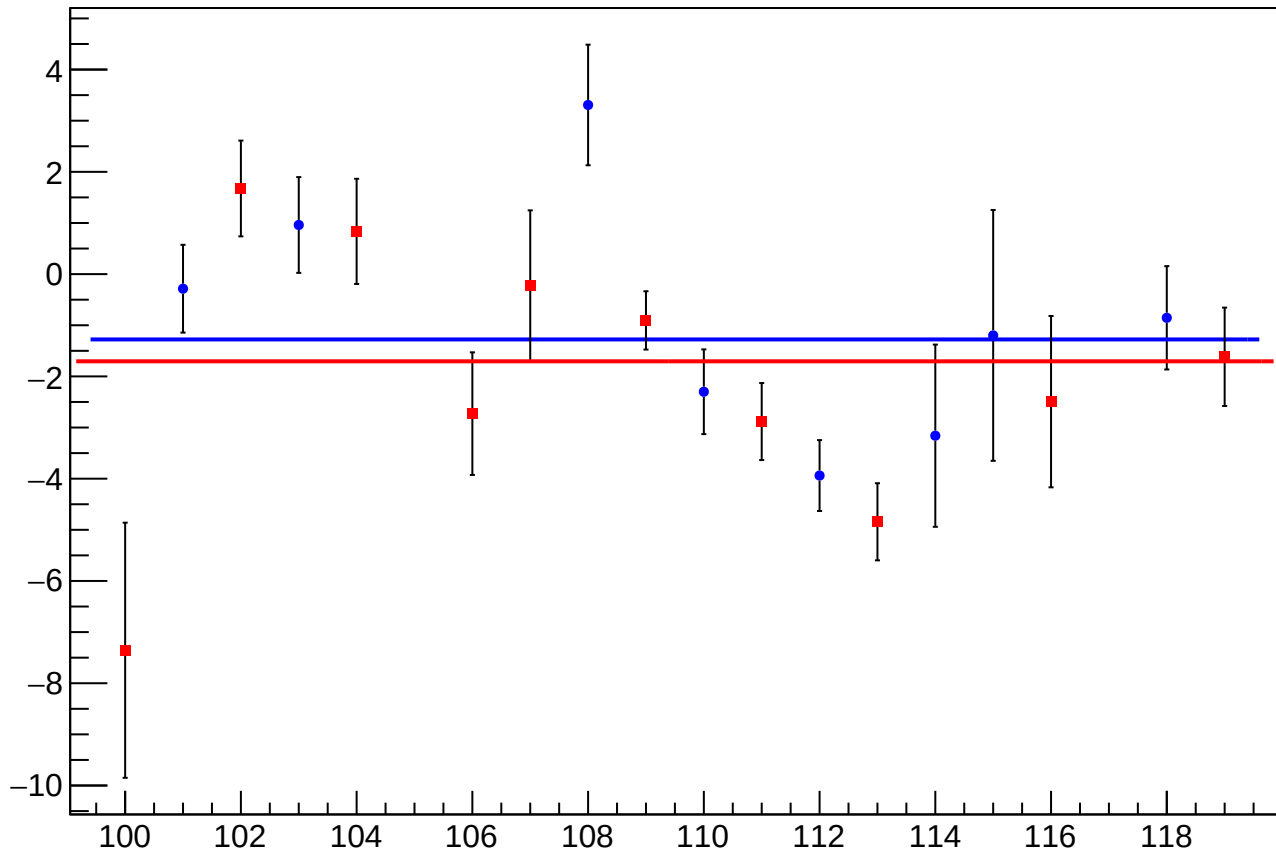
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.260 $\pm$ 0.002  $\chi^2$ /NDF: 5330.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -1.277 $\pm$ 0.349  $\chi^2$ /NDF: 39.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.705 $\pm$ 0.296  $\chi^2$ /NDF: 48.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

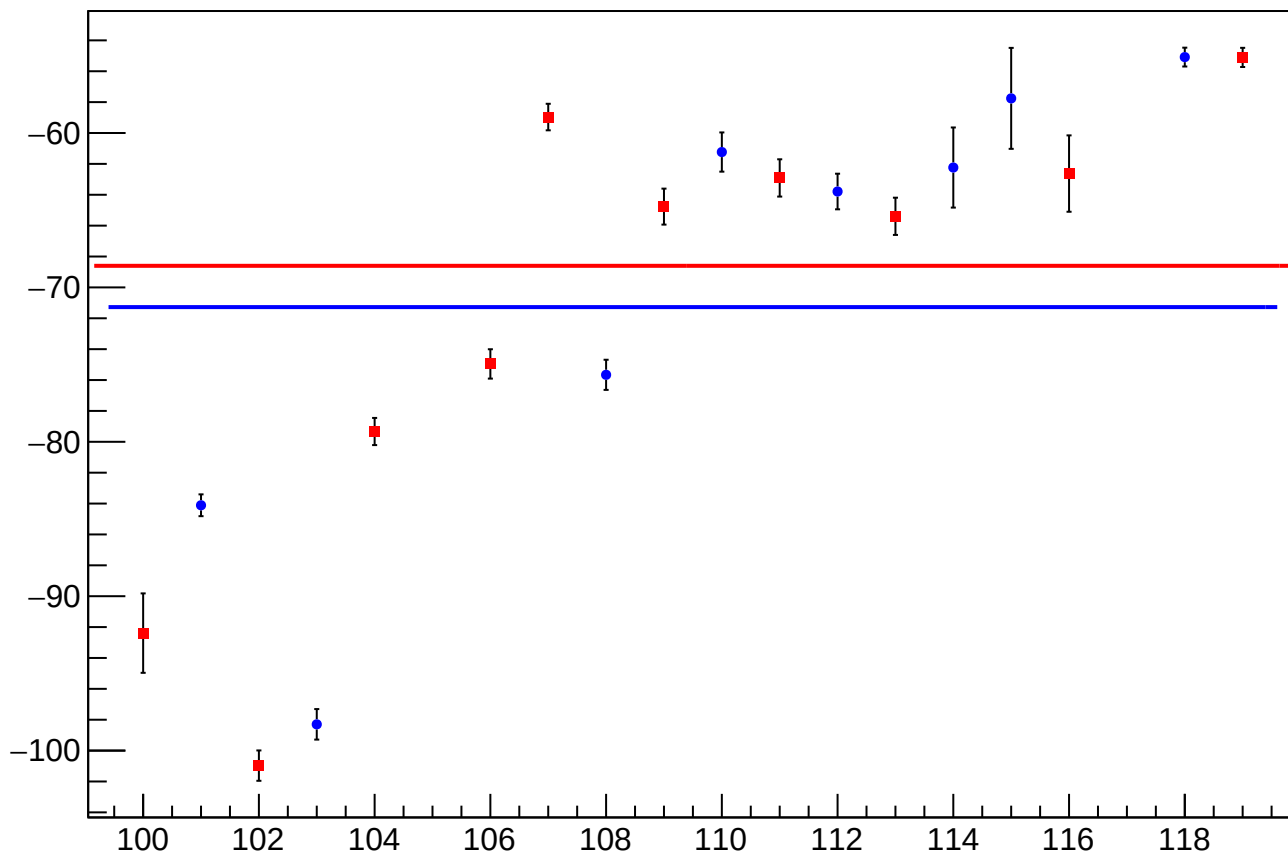
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.526 $\pm$ 0.226  $\chi^2$ /NDF: 88.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -71.276+/-0.345  $\chi^2/\text{NDF}$ : 1936.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -68.602+/-0.319  $\chi^2/\text{NDF}$ : 2007.8/9

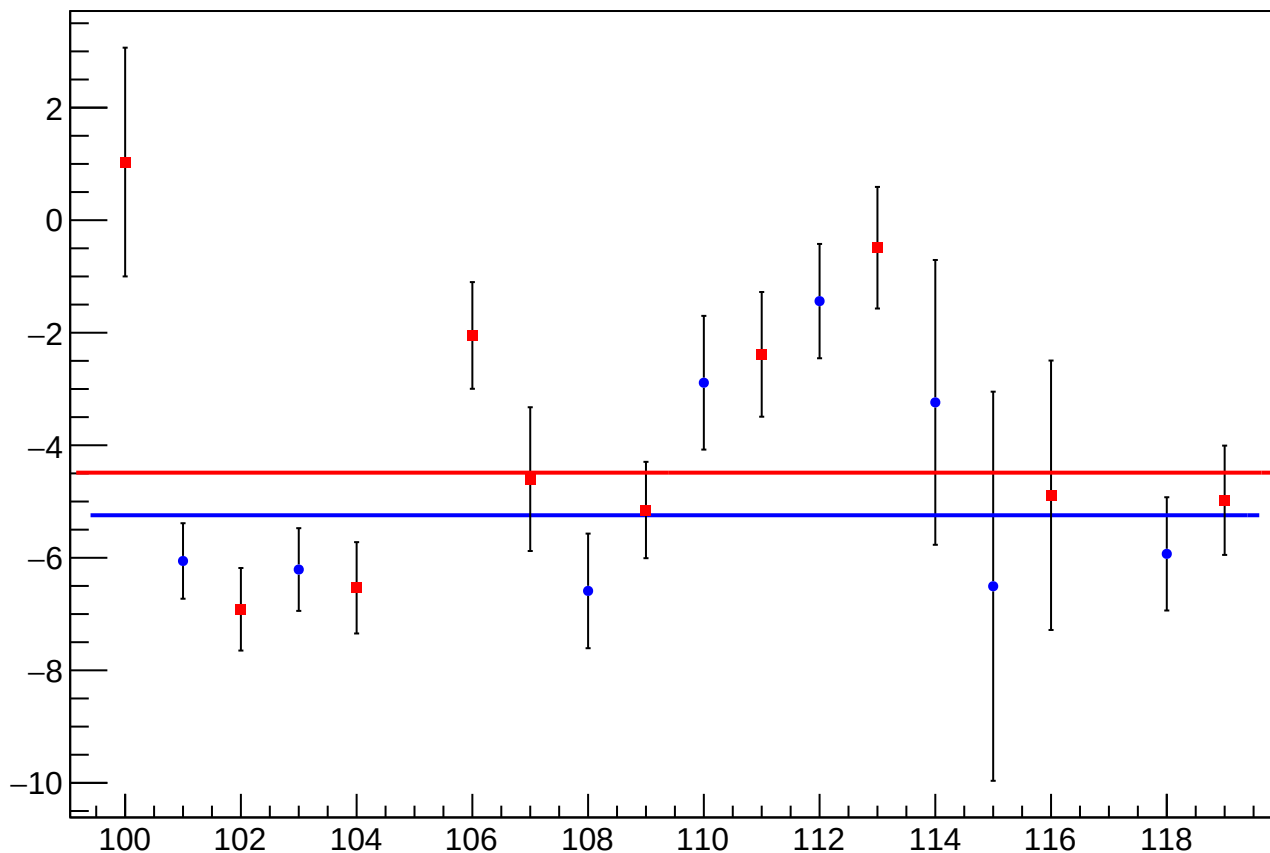
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -69.834+/-0.234  $\chi^2/\text{NDF}$ : 3976.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -5.244 $\pm$ 0.355  $\chi^2$ /NDF: 24.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4.487 $\pm$ 0.323  $\chi^2$ /NDF: 49.5/9

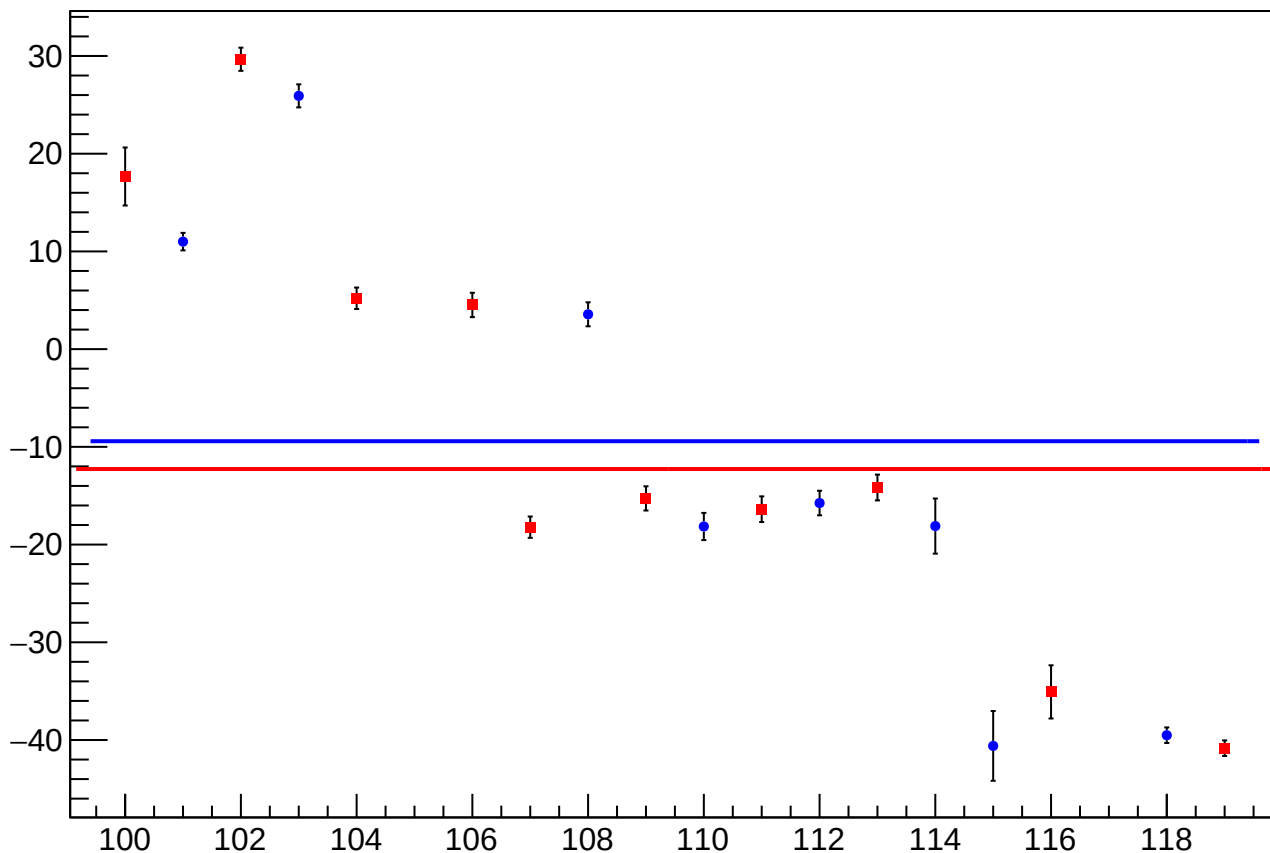
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -4.829 $\pm$ 0.239  $\chi^2$ /NDF: 76.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -9.423+/-0.424  $\chi^2/\text{NDF}$ : 3110.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12.269+/-0.388  $\chi^2/\text{NDF}$ : 3188.1/9

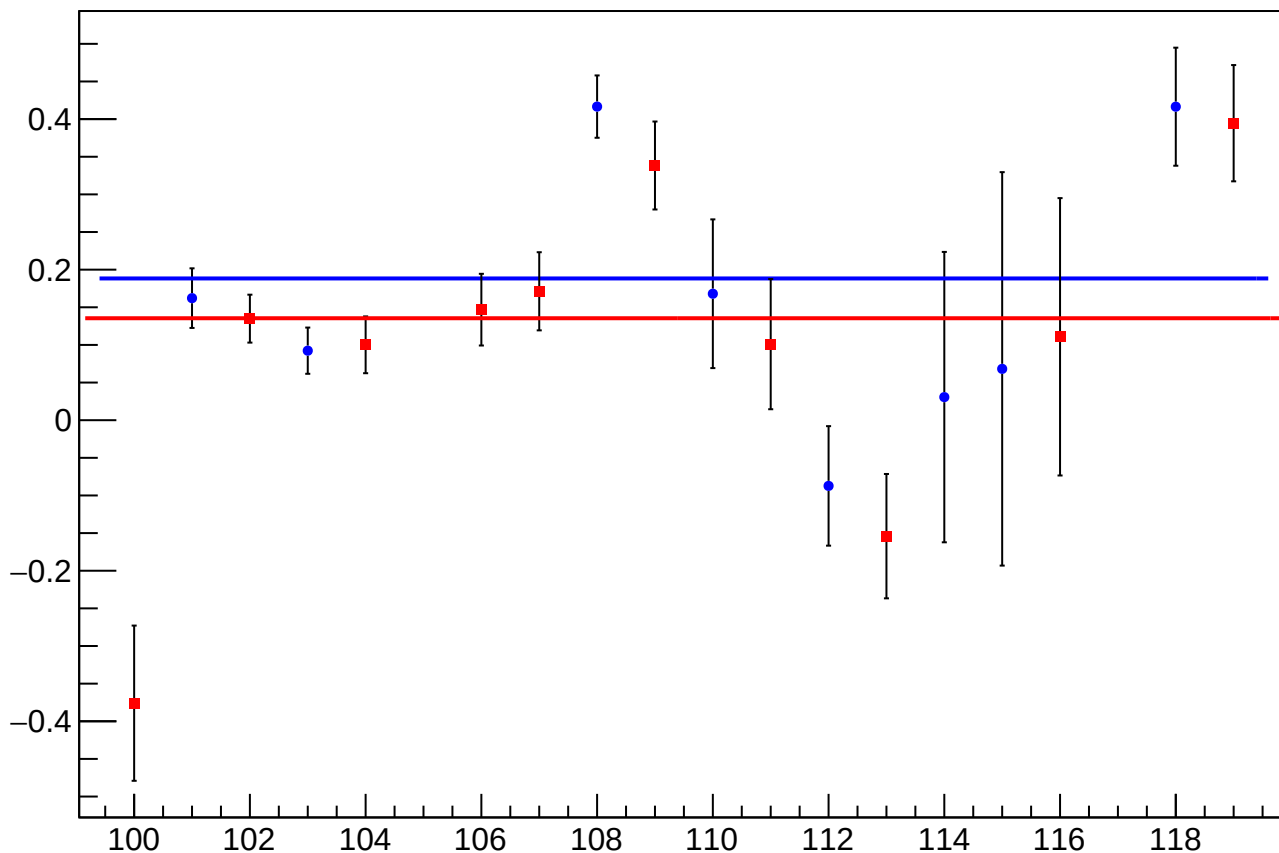
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -10.973+/-0.286  $\chi^2/\text{NDF}$ : 6322.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.188 $\pm$ 0.019  $\chi^2$ /NDF: 62.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.135 $\pm$ 0.017  $\chi^2$ /NDF: 61.8/9

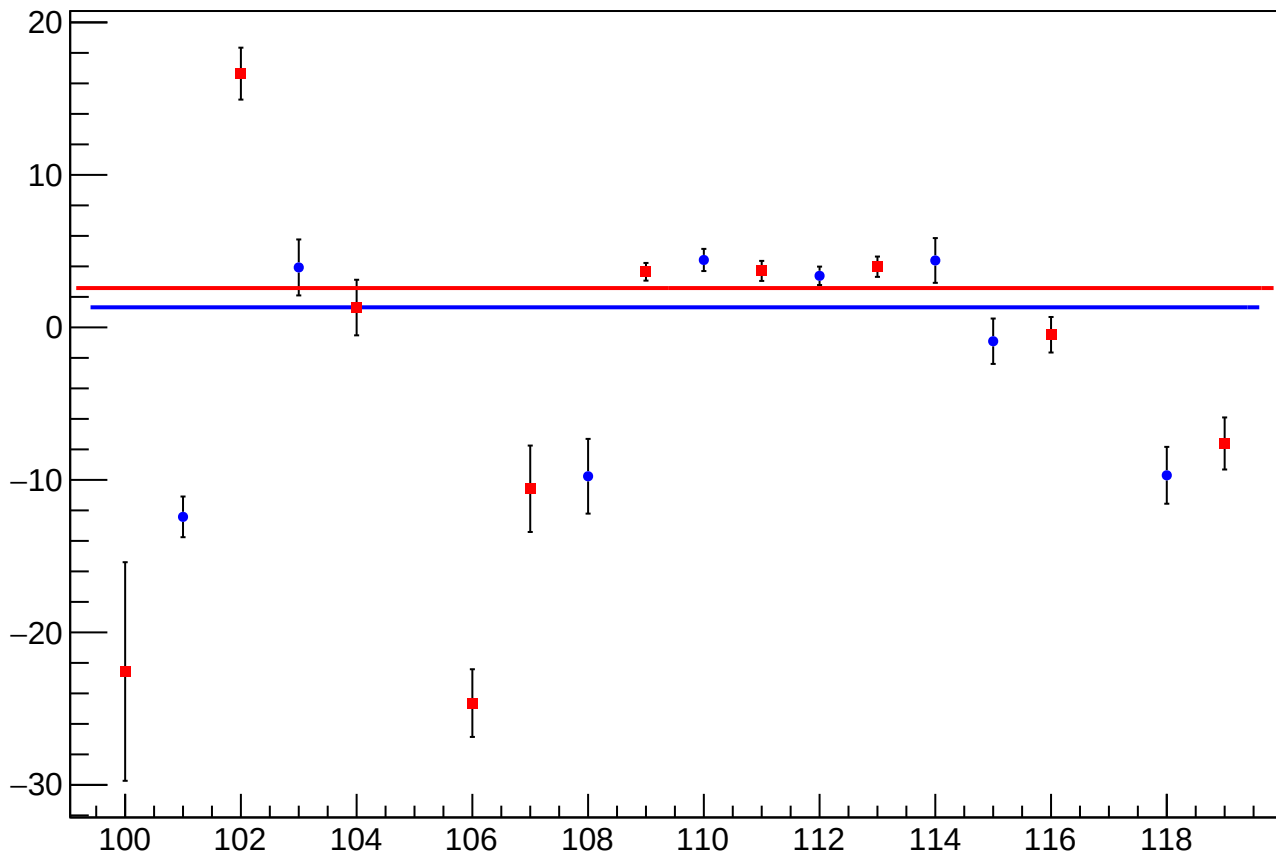
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.159 $\pm$ 0.013  $\chi^2$ /NDF: 128.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 1.317+/-0.382  $\chi^2/\text{NDF}$ : 200.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.579+/-0.322  $\chi^2/\text{NDF}$ : 306.2/9

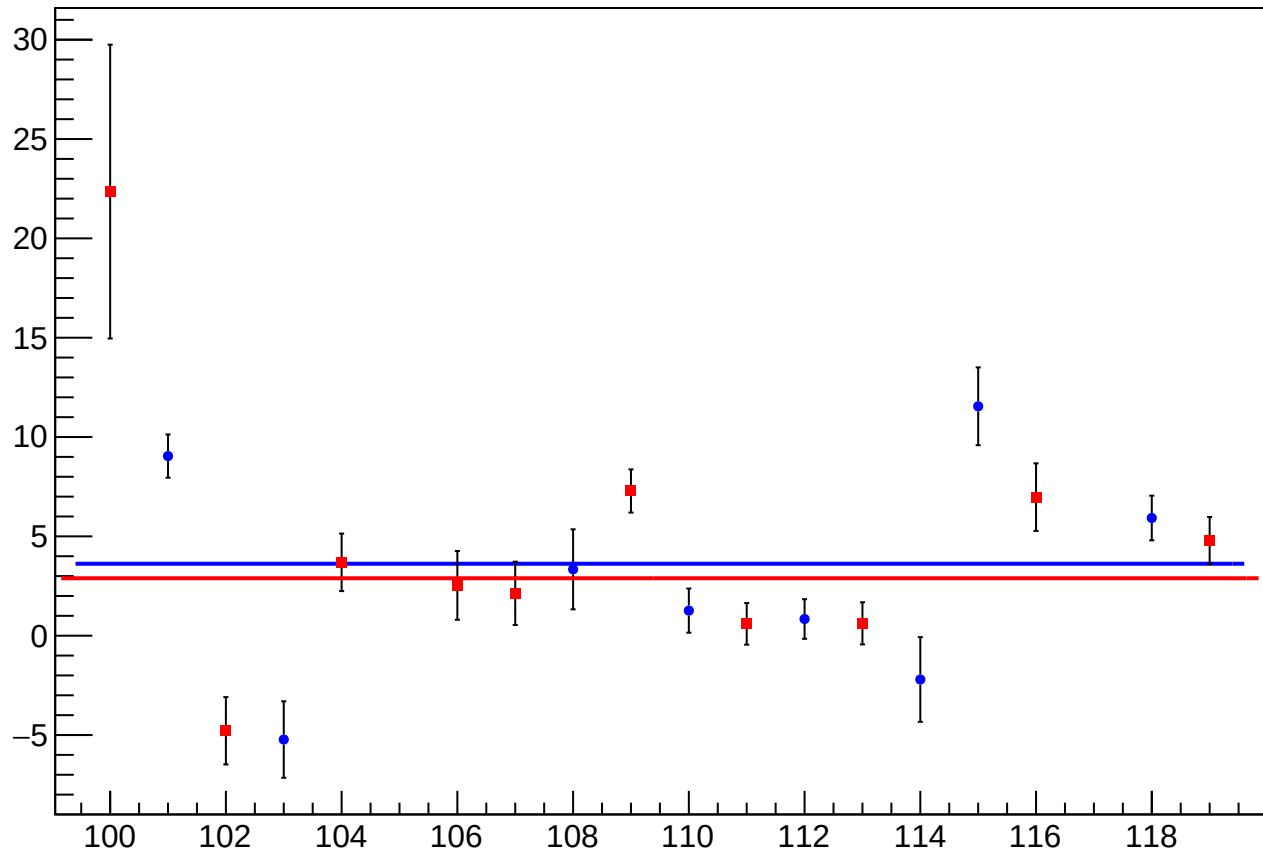
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.054+/-0.246  $\chi^2/\text{NDF}$ : 512.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 3.622 $\pm$ 0.474  $\chi^2$ /NDF: 86.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.892 $\pm$ 0.436  $\chi^2$ /NDF: 62.0/9

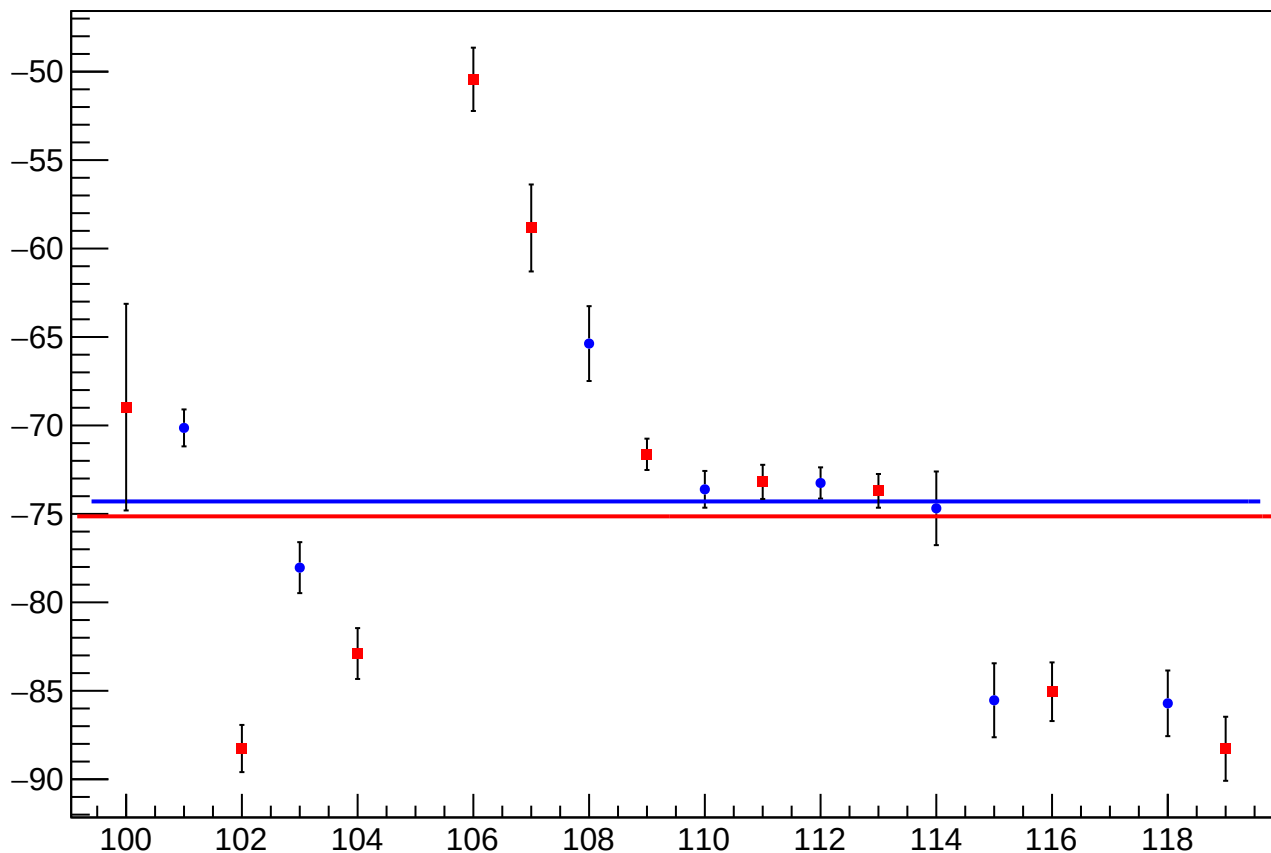
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.226 $\pm$ 0.321  $\chi^2$ /NDF: 149.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -74.295 $\pm$ 0.467  $\chi^2$ /NDF: 109.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -75.138 $\pm$ 0.420  $\chi^2$ /NDF: 472.1/9

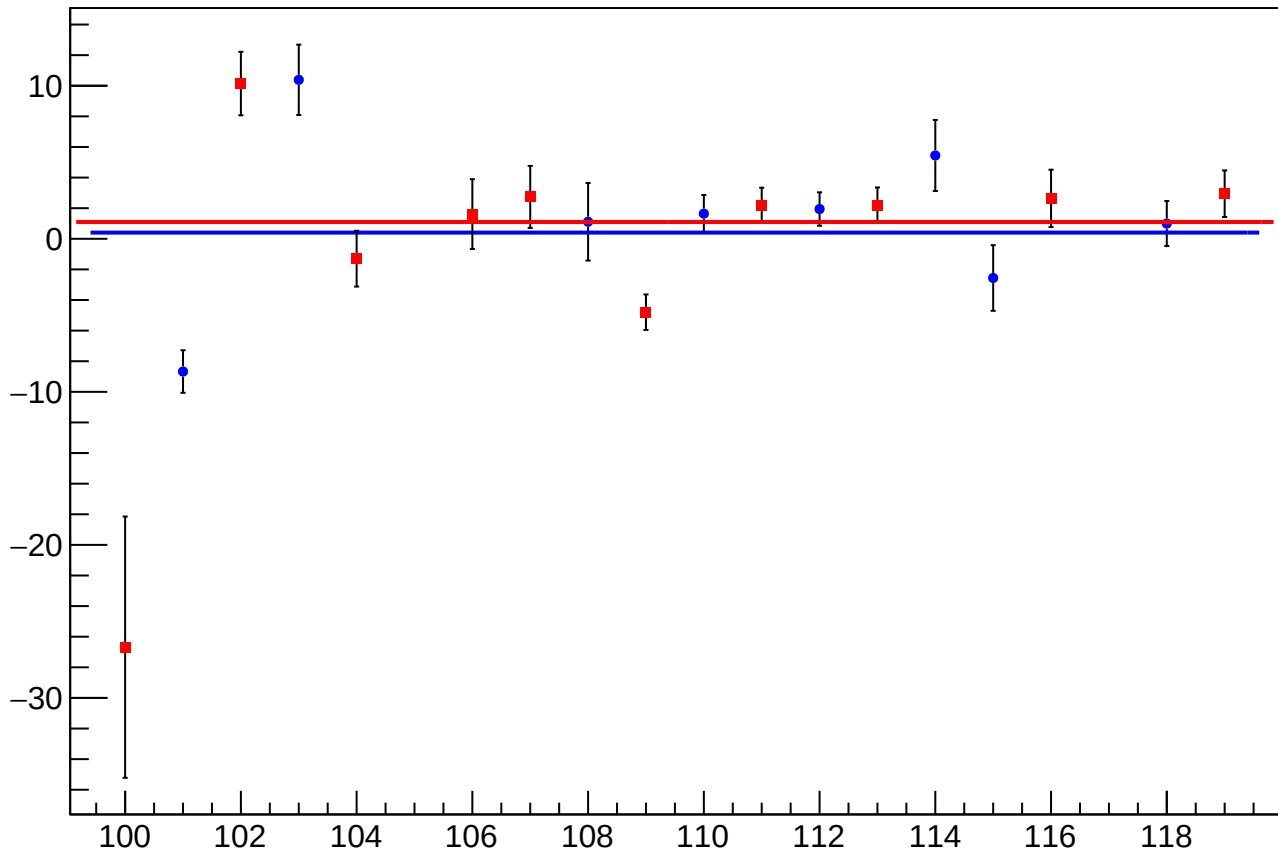
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -74.762 $\pm$ 0.312  $\chi^2$ /NDF: 582.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.405+/-0.555  $\chi^2/\text{NDF}$ : 71.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.098+/-0.503  $\chi^2/\text{NDF}$ : 61.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

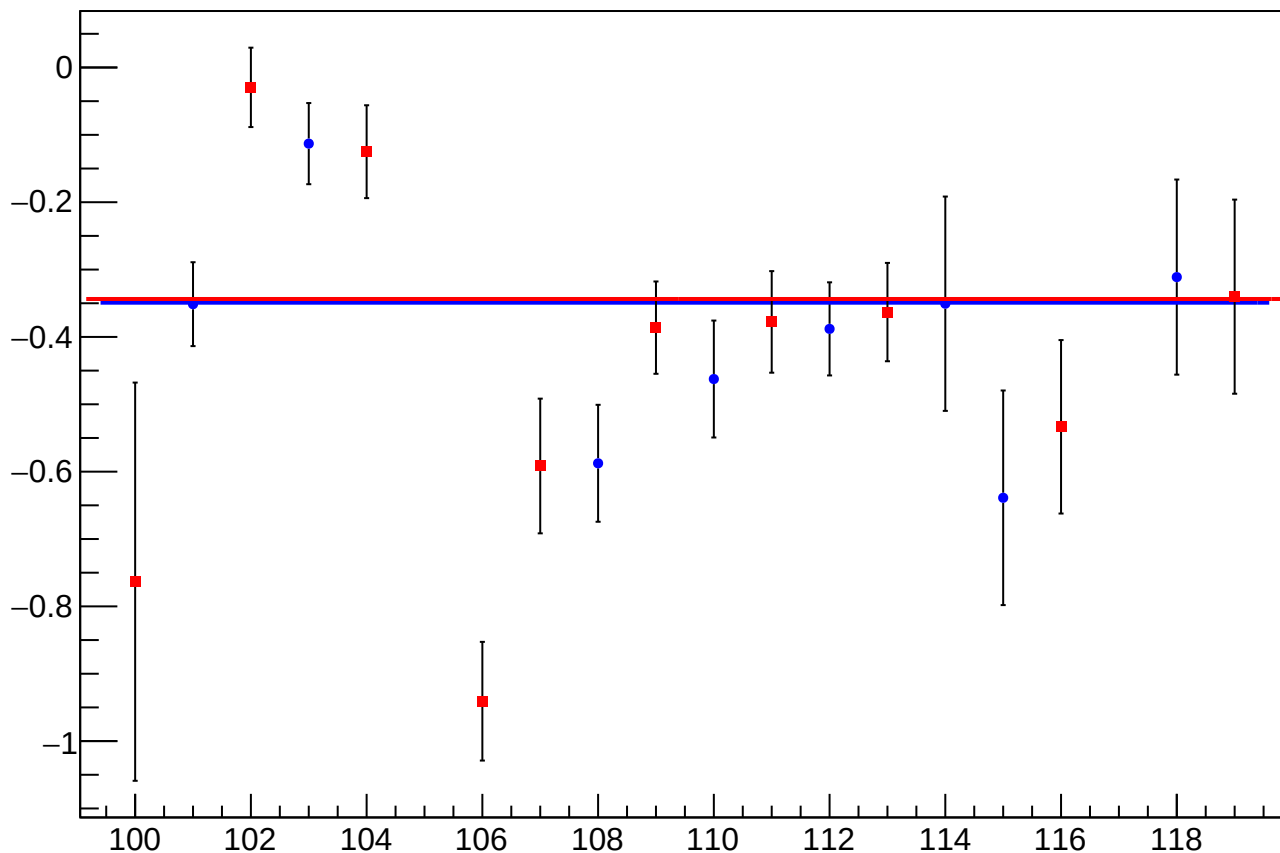
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.786+/-0.373  $\chi^2/\text{NDF}$ : 134.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.349 \pm 0.030$   $\chi^2/\text{NDF}: 28.3/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.344 \pm 0.027$   $\chi^2/\text{NDF}: 95.4/9$

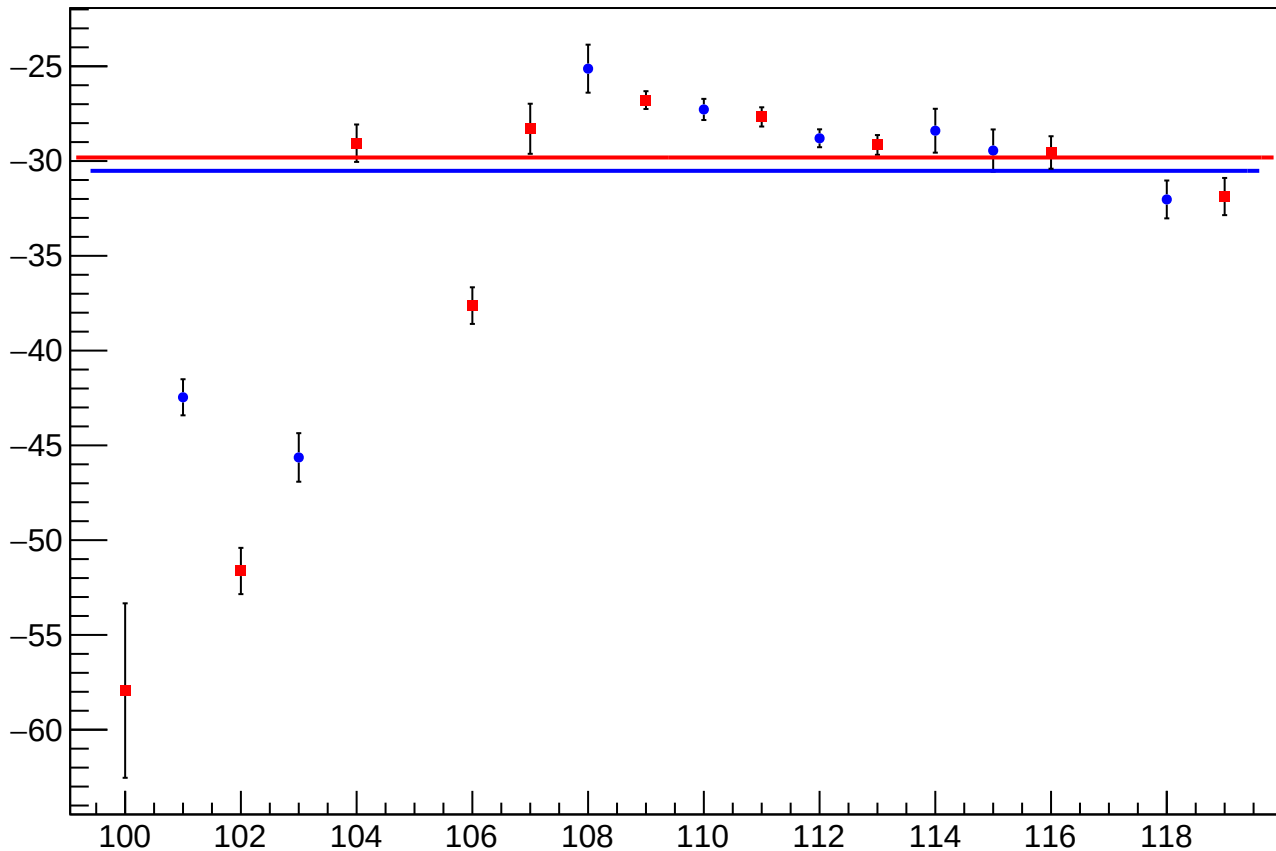
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.346 \pm 0.020$   $\chi^2/\text{NDF}: 123.7/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-30.516 \pm 0.282$   $\chi^2/\text{NDF}: 368.4/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-29.812 \pm 0.236$   $\chi^2/\text{NDF}: 489.8/9$

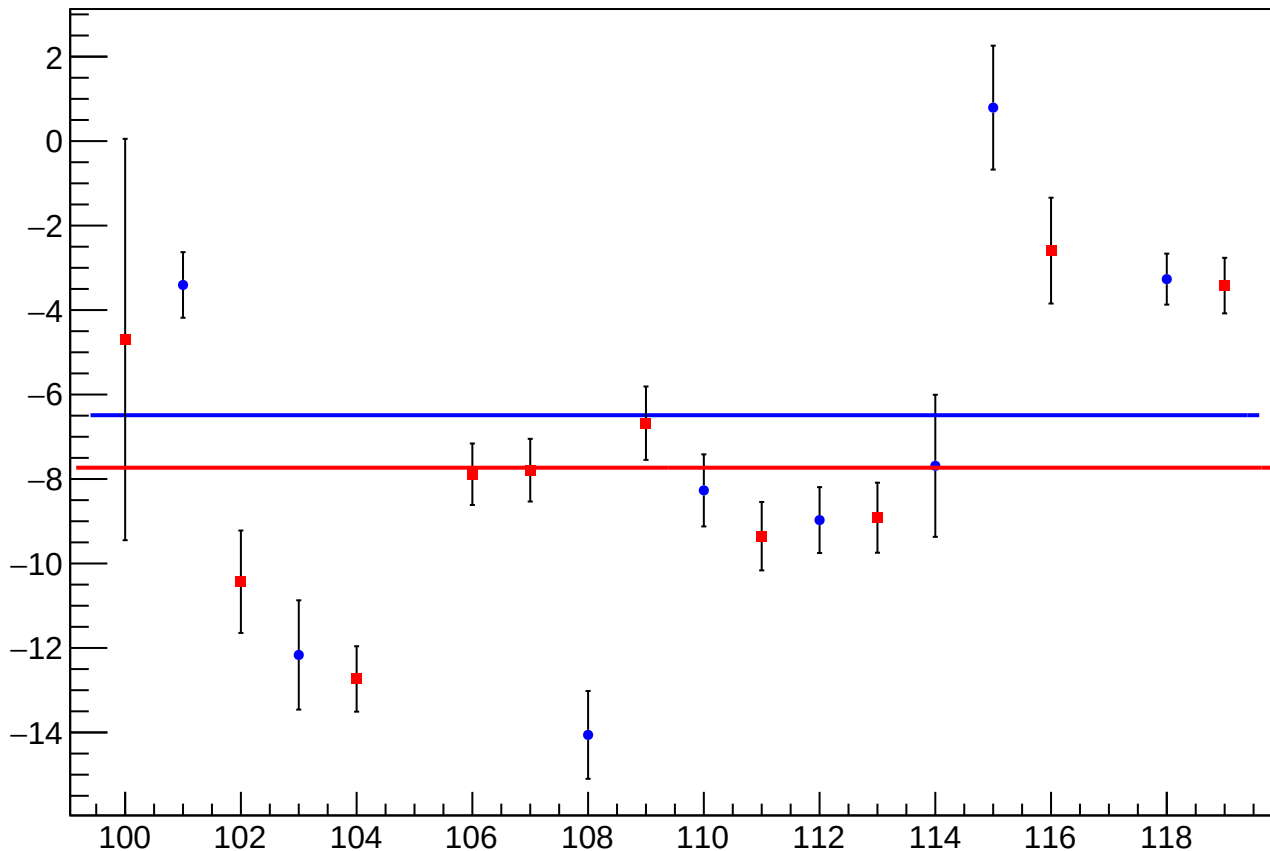
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-30.103 \pm 0.181$   $\chi^2/\text{NDF}: 861.9/17$

- 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: -6.489+/-0.320  $\chi^2/\text{NDF}$ : 156.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7.732+/-0.274  $\chi^2/\text{NDF}$ : 114.4/9

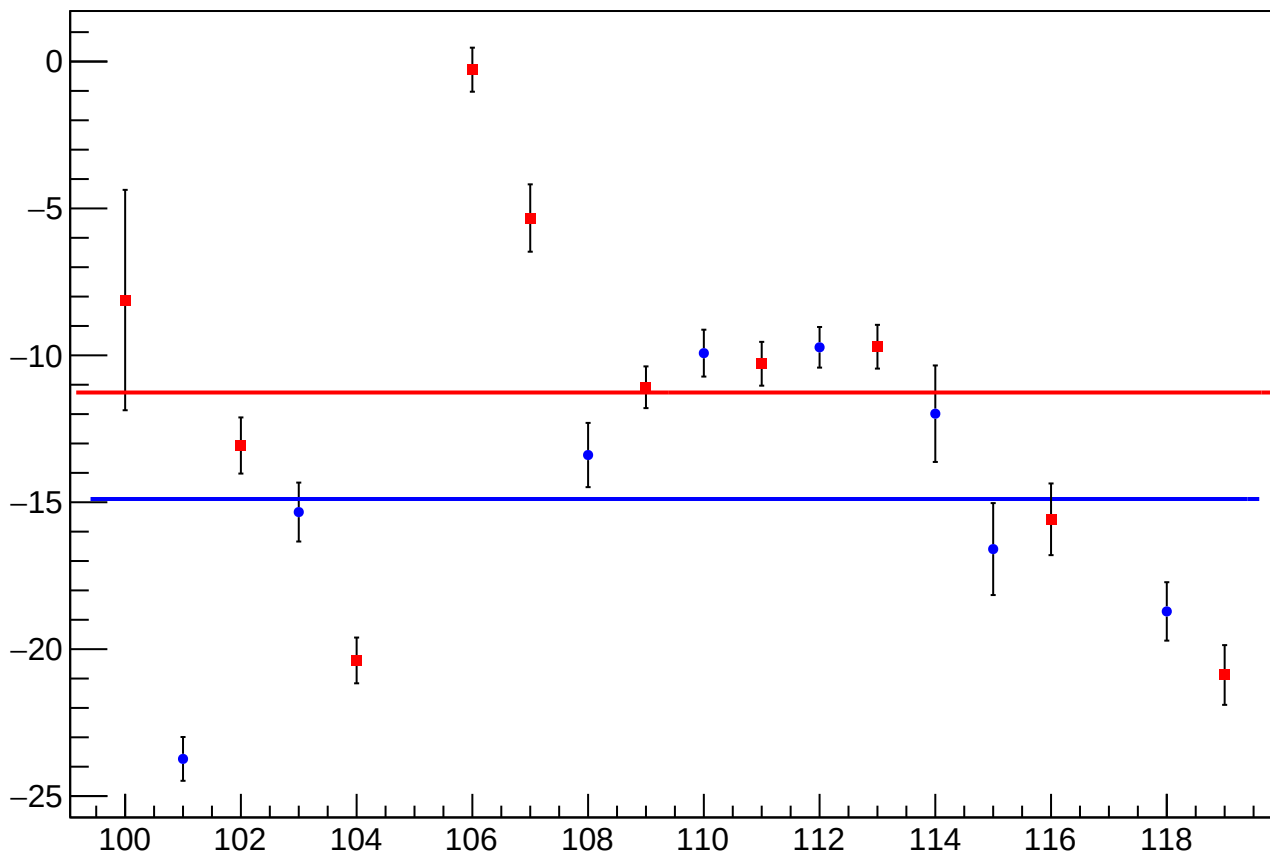
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.207+/-0.208  $\chi^2/\text{NDF}$ : 279.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-14.890 \pm 0.332$   $\chi^2/\text{NDF}$ : 256.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-11.265 \pm 0.282$   $\chi^2/\text{NDF}$ : 491.1/9

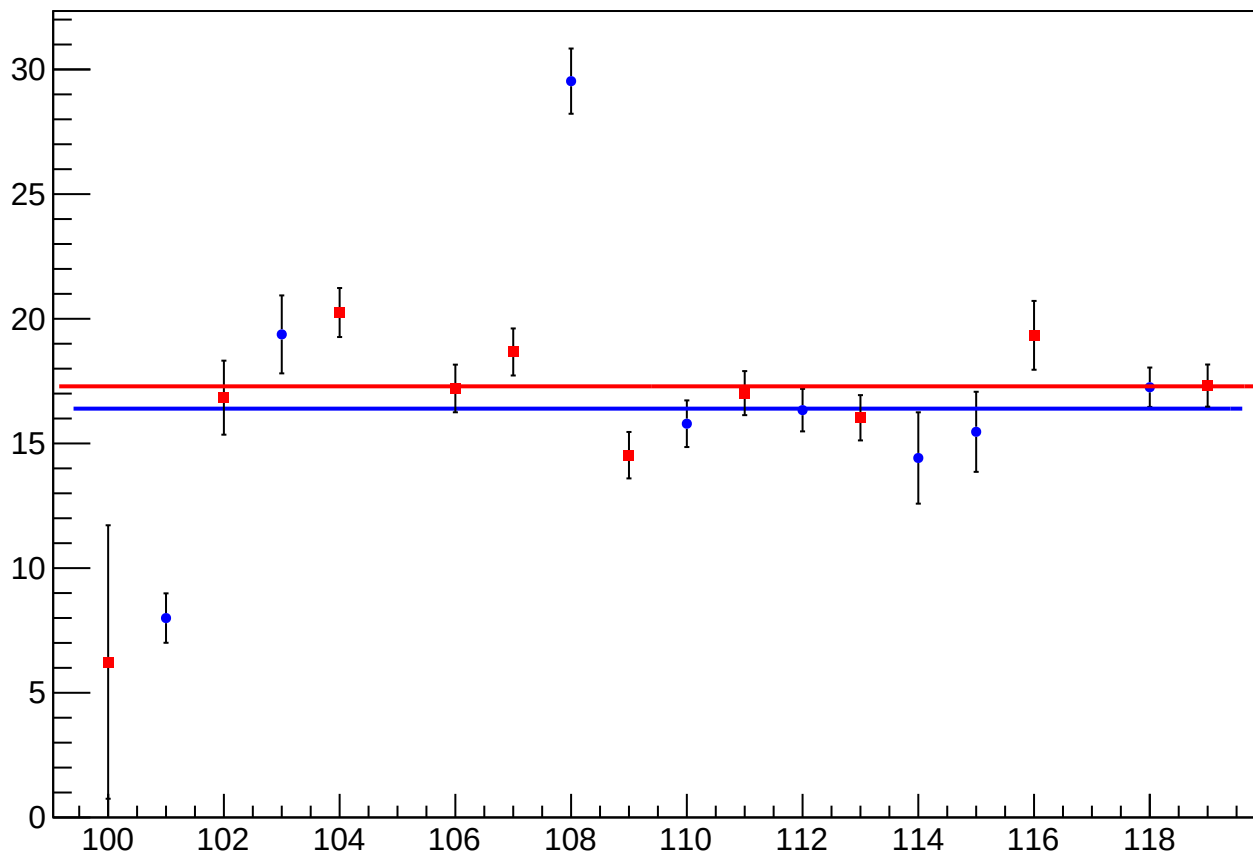
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-12.785 \pm 0.215$   $\chi^2/\text{NDF}$ : 817.0/17

- 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: 16.396+/-0.383  $\chi^2$ /NDF: 179.3/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.291+/-0.328  $\chi^2$ /NDF: 28.4/9

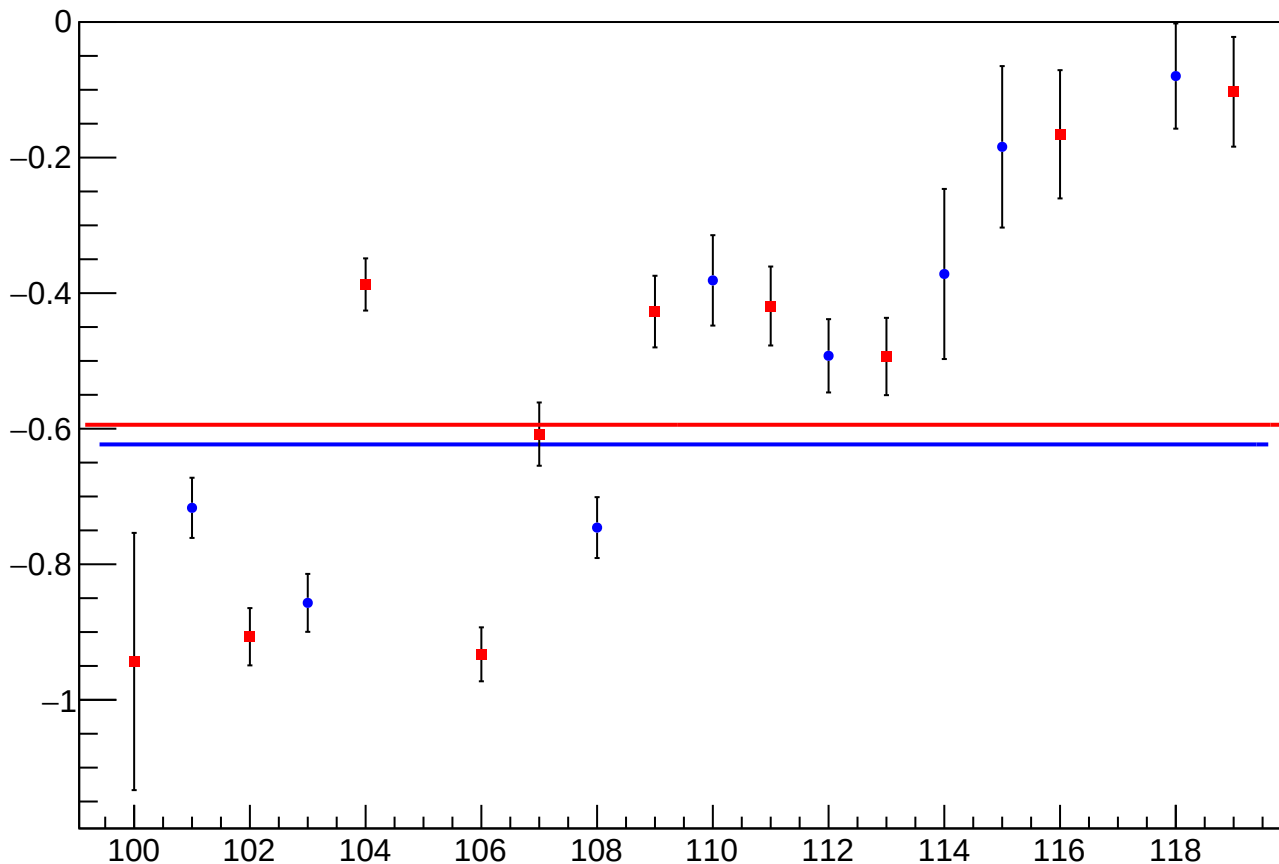
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 16.913+/-0.249  $\chi^2$ /NDF: 210.9/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.623+/-0.020  $\chi^2/\text{NDF}$ : 127.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.594+/-0.017  $\chi^2/\text{NDF}$ : 239.0/9

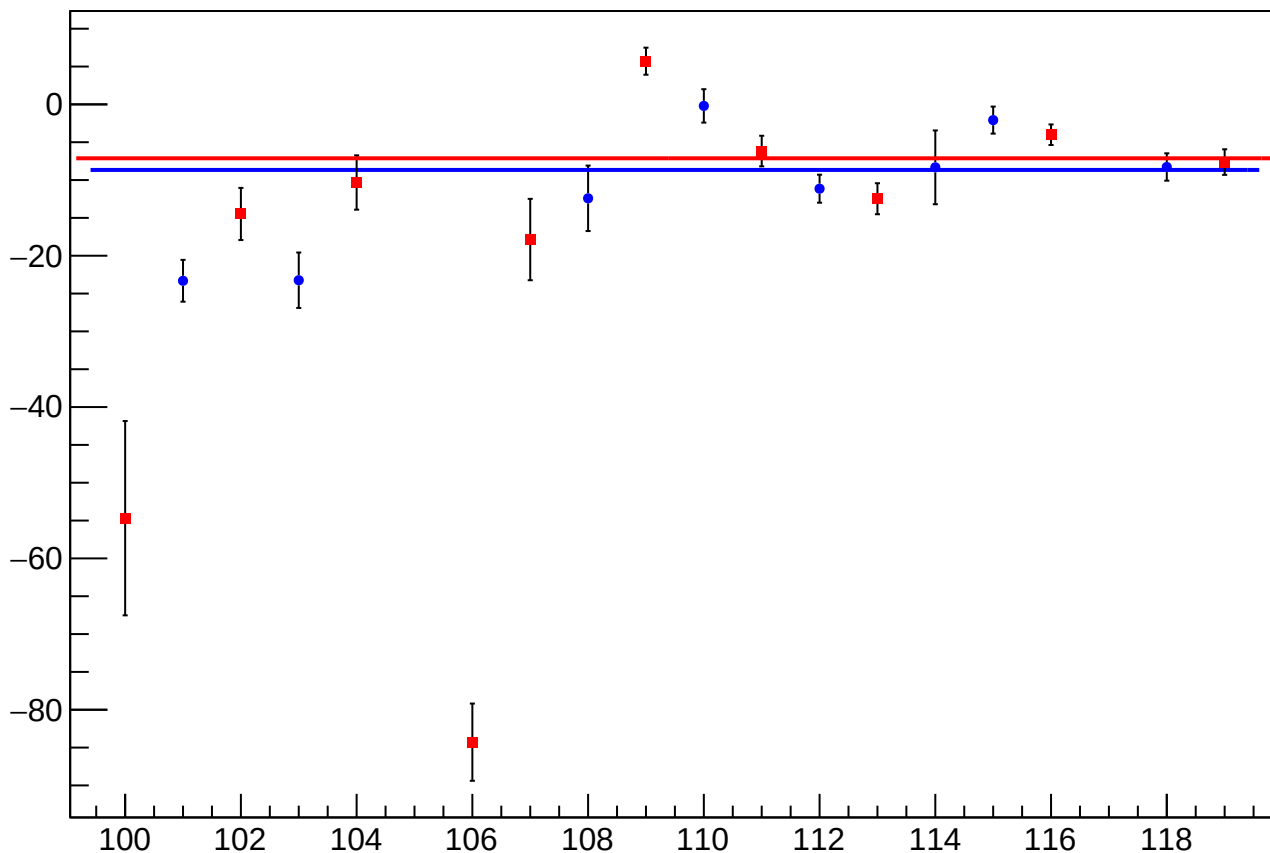
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.606+/-0.013  $\chi^2/\text{NDF}$ : 367.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-8.663 \pm 0.840$   $\chi^2/\text{NDF}$ : 74.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-7.125 \pm 0.720$   $\chi^2/\text{NDF}$ : 315.5/9

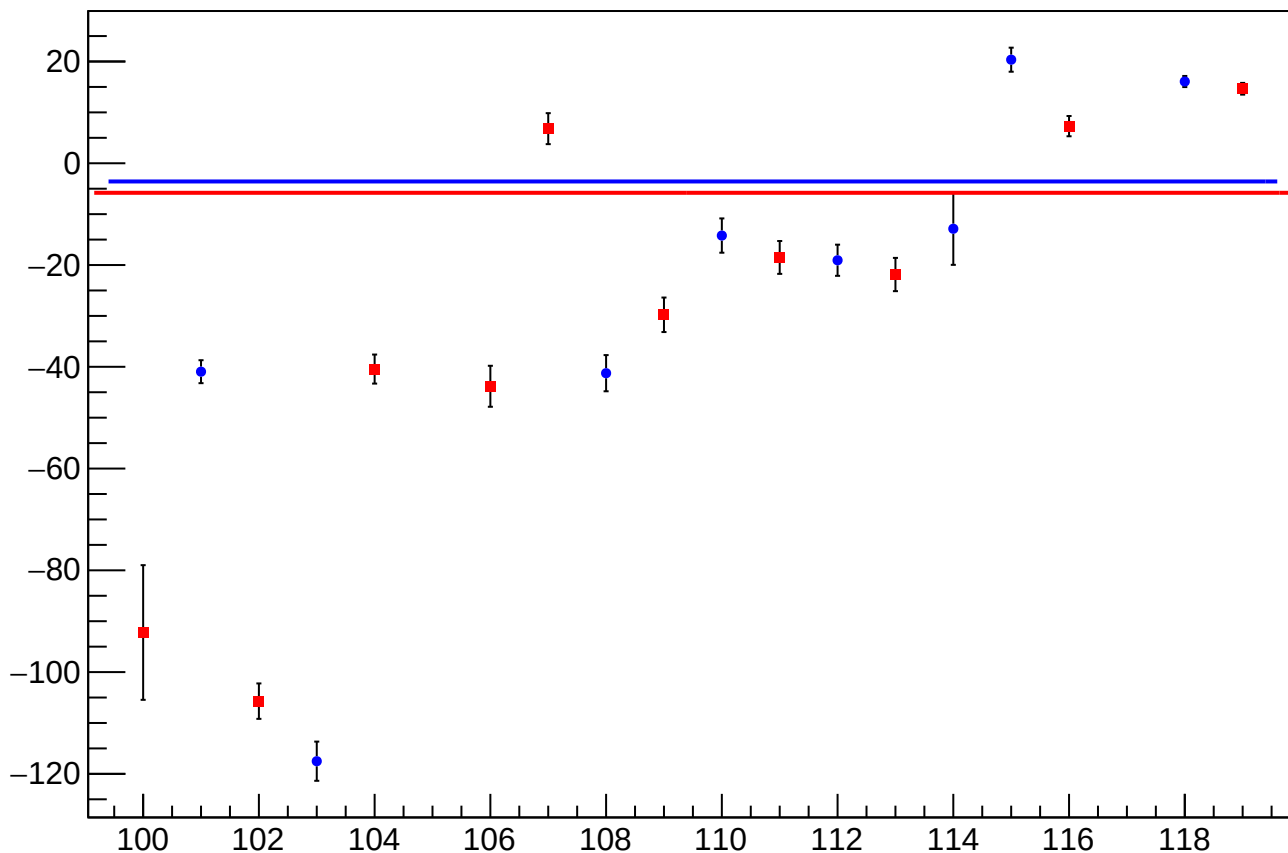
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-7.776 \pm 0.547$   $\chi^2/\text{NDF}$ : 392.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -3.576+/-0.797  $\chi^2$ /NDF: 1725.7/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -5.805+/-0.775  $\chi^2$ /NDF: 1569.3/9

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

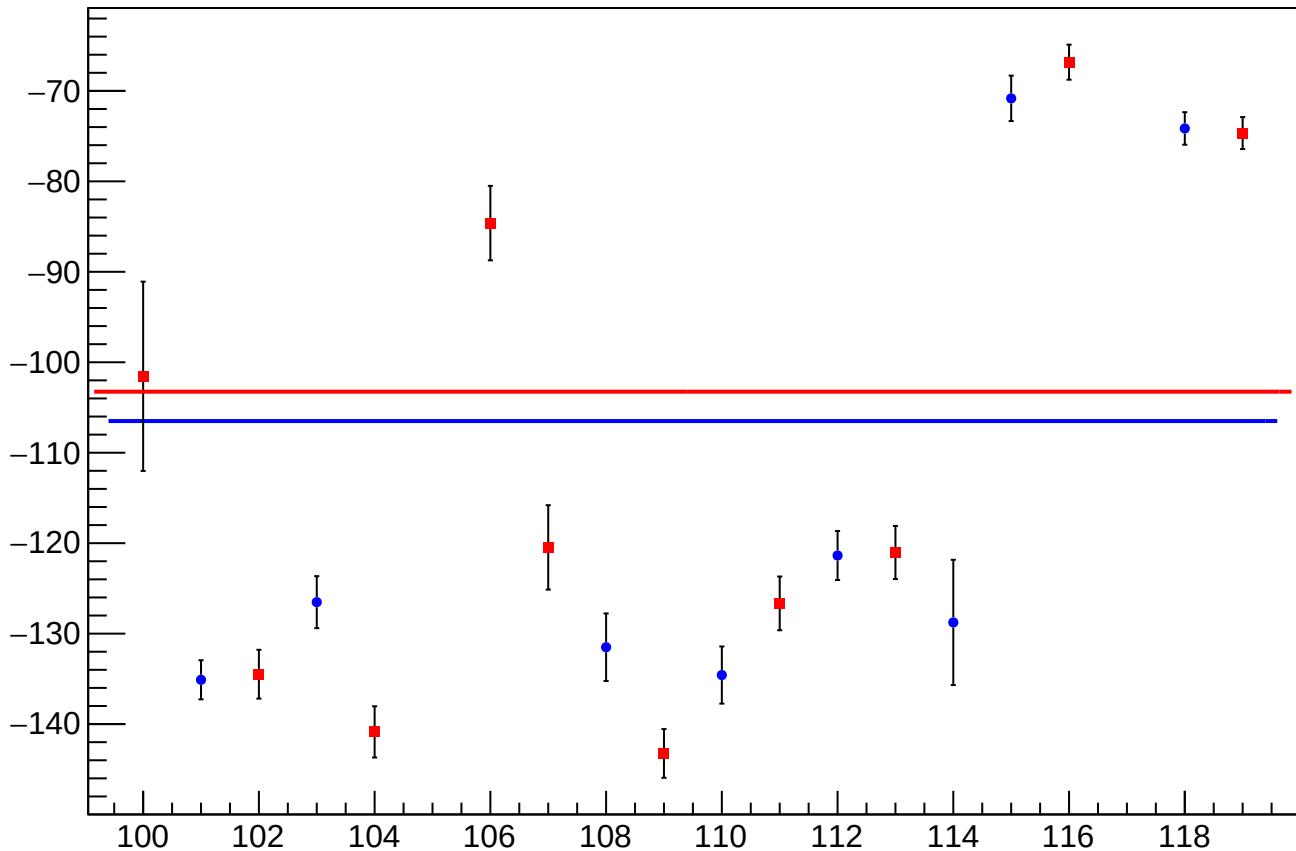
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -4.722+/-0.555  $\chi^2$ /NDF: 3299.0/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -106.498+/-0.940  $\chi^2/\text{NDF}$ : 912.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -103.254+/-0.867  $\chi^2/\text{NDF}$ : 1279.9/9

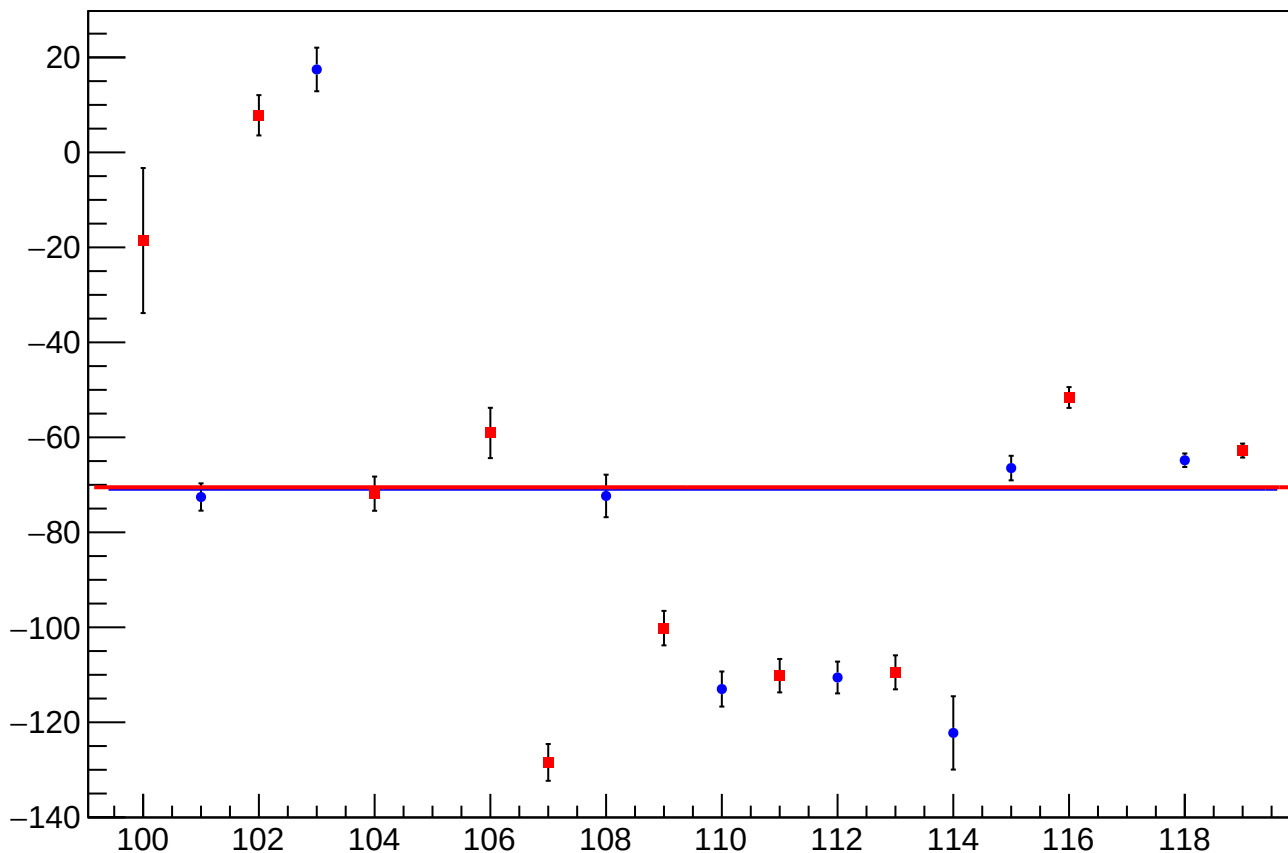
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -104.745+/-0.637  $\chi^2/\text{NDF}$ : 2198.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-70.825 \pm 0.982$   $\chi^2/\text{NDF}$ : 707.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-70.512 \pm 0.936$   $\chi^2/\text{NDF}$ : 995.1/9

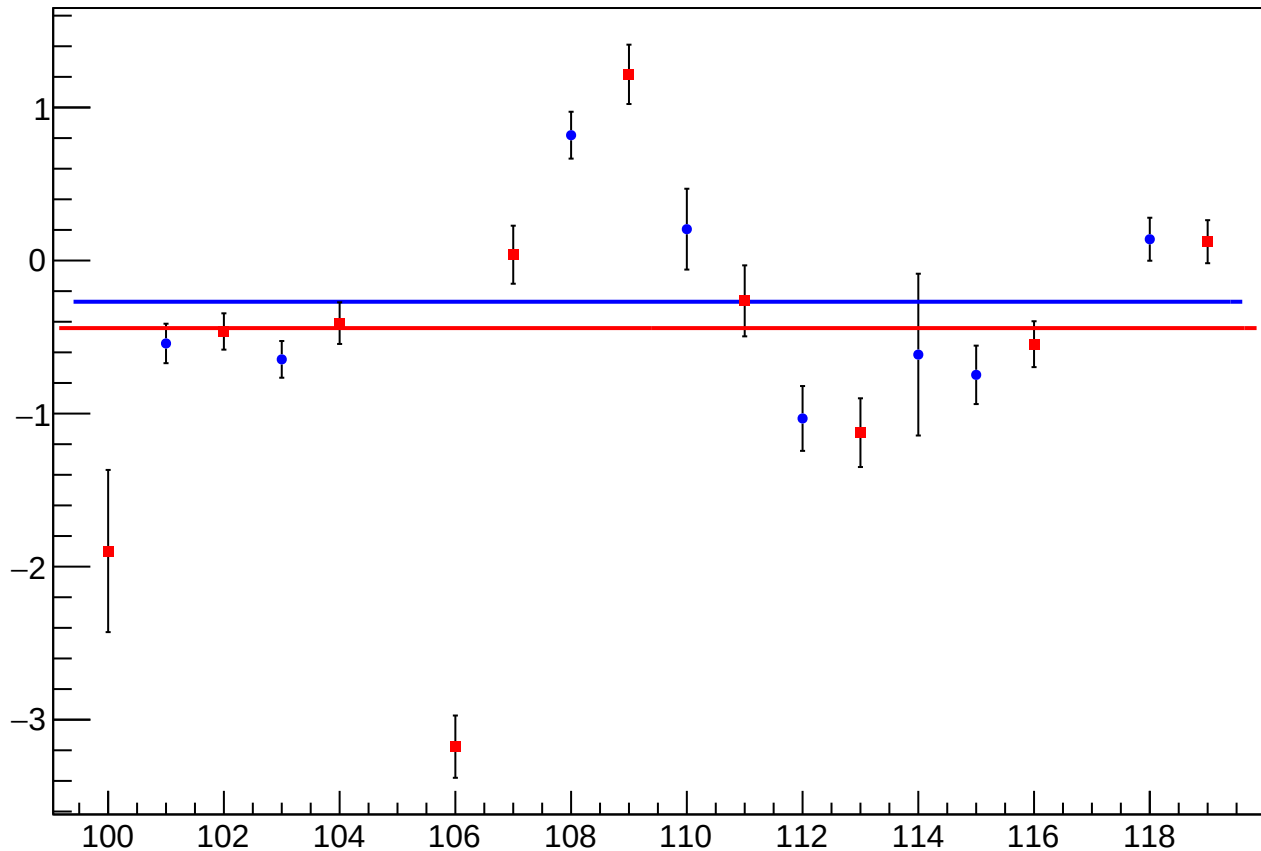
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-70.661 \pm 0.677$   $\chi^2/\text{NDF}$ : 1702.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.269 \pm 0.059$   $\chi^2/\text{NDF}$ : 96.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.441 \pm 0.054$   $\chi^2/\text{NDF}$ : 294.3/9

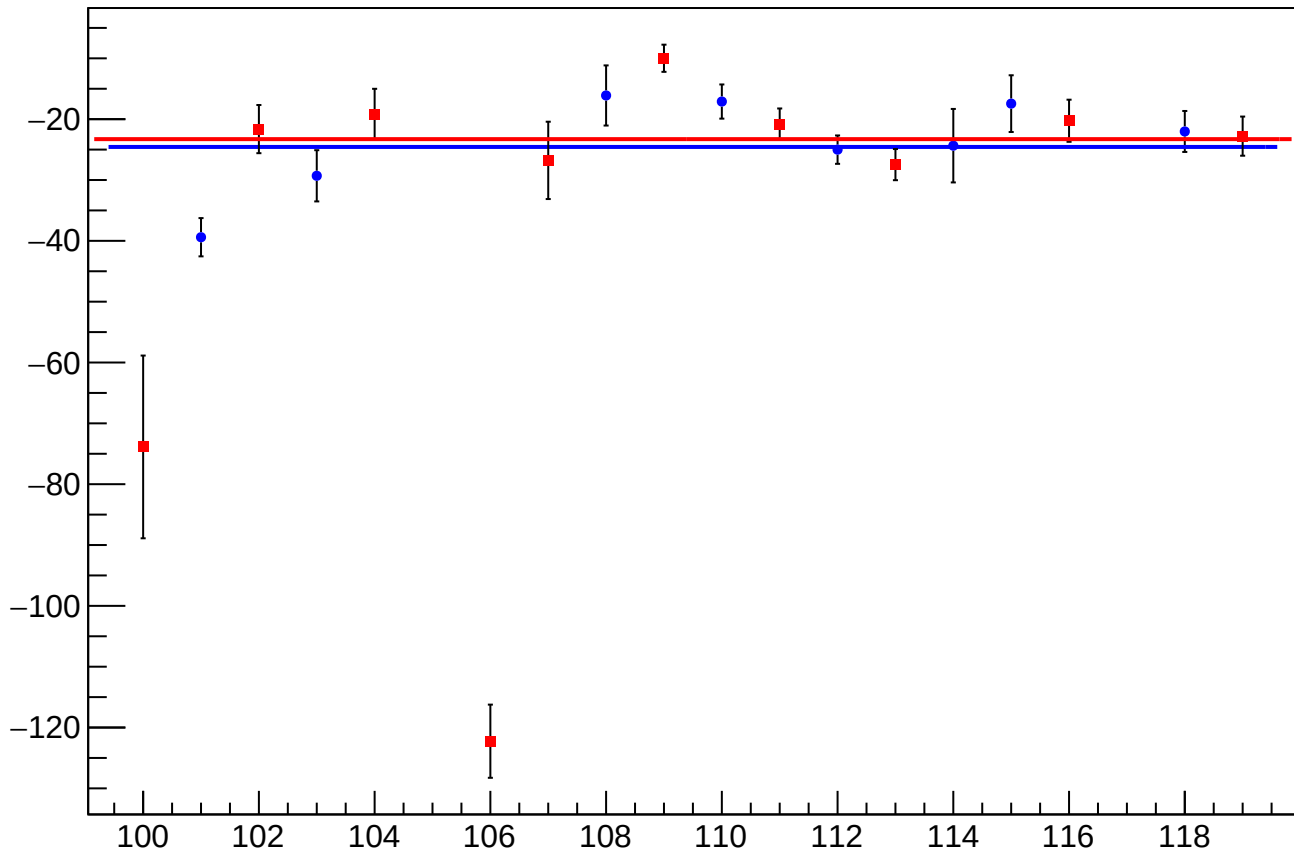
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.362 \pm 0.040$   $\chi^2/\text{NDF}$ : 395.2/17

- 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:  $-24.565 \pm 1.221$   $\chi^2/\text{NDF}$ : 36.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-23.281 \pm 1.076$   $\chi^2/\text{NDF}$ : 323.4/9

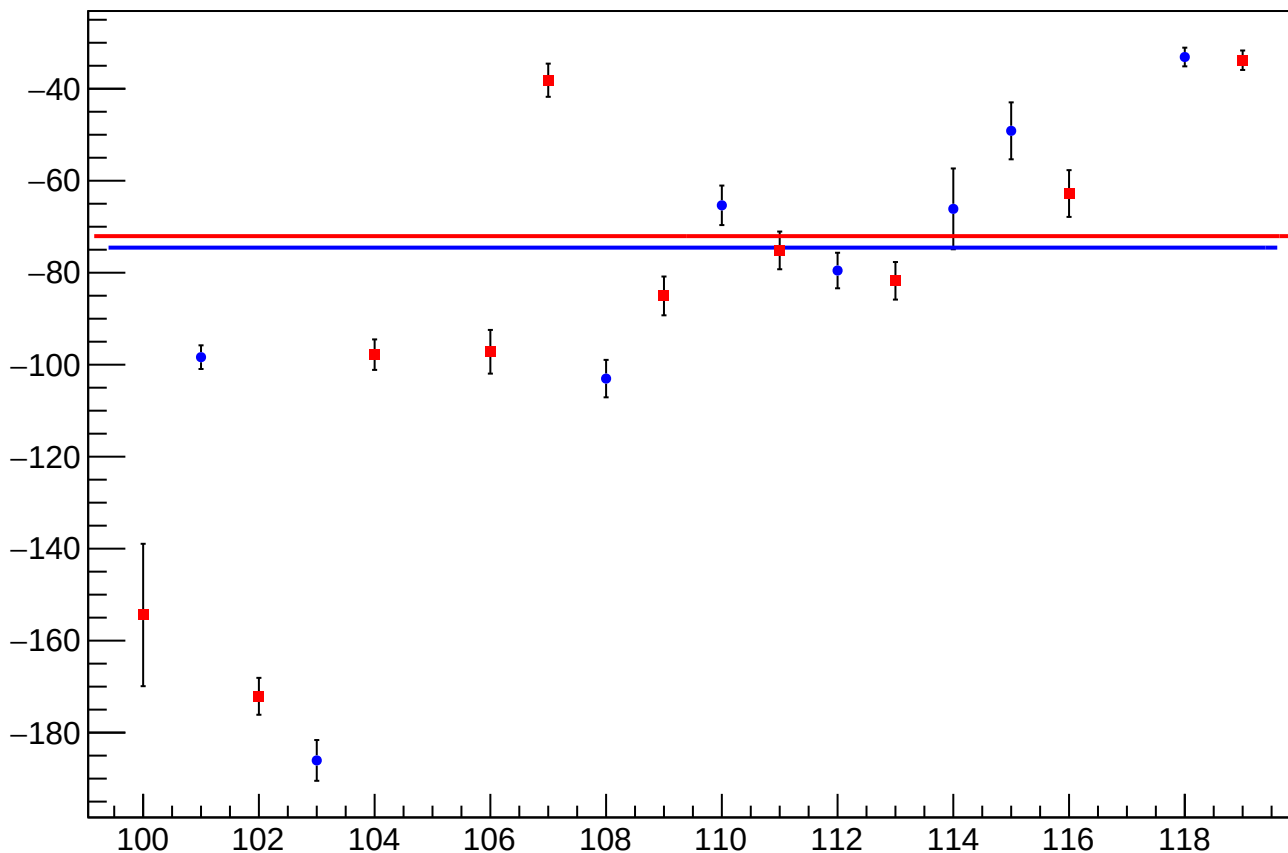
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-23.842 \pm 0.807$   $\chi^2/\text{NDF}$ : 360.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-74.546 \pm 1.226$   $\chi^2/\text{NDF}$ : 1208.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-72.048 \pm 1.181$   $\chi^2/\text{NDF}$ : 1173.3/9

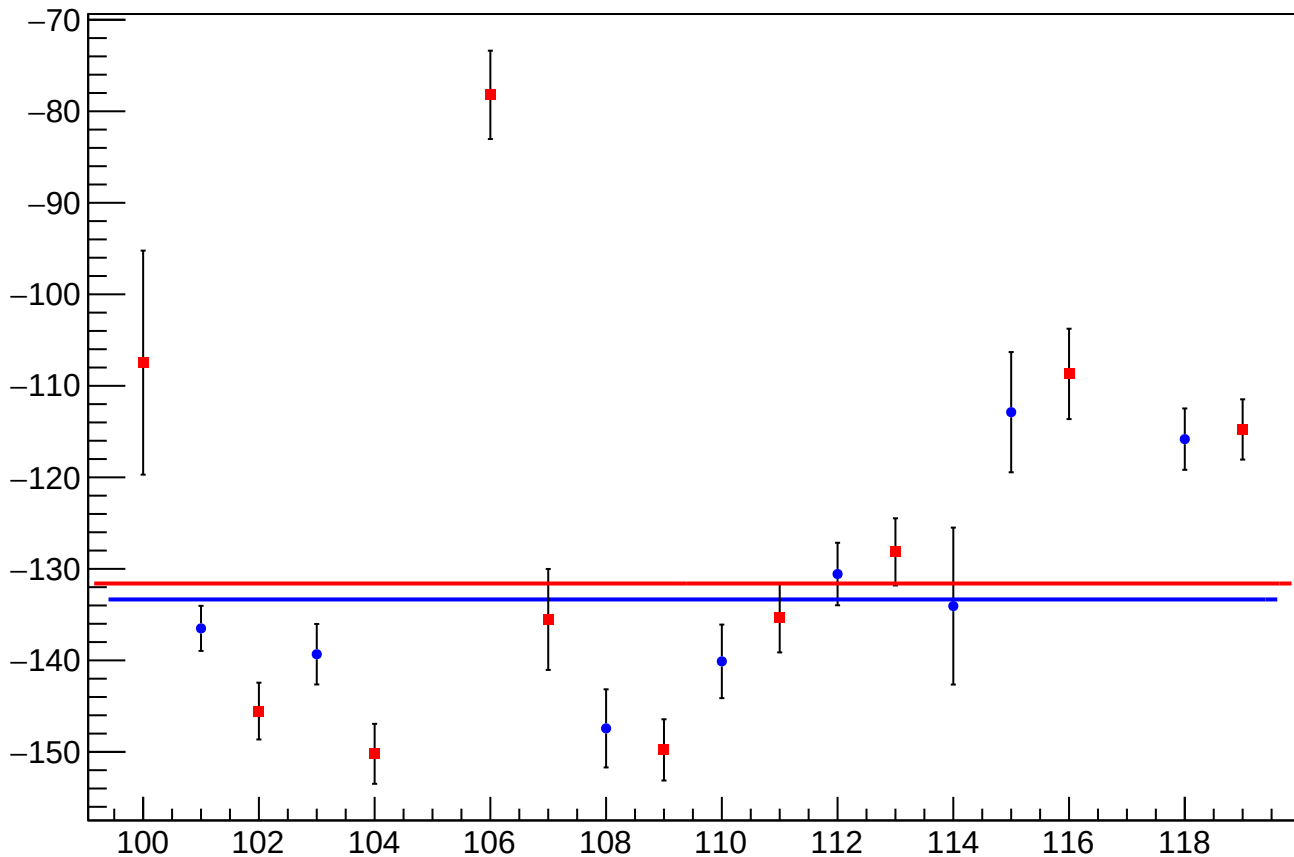
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-73.251 \pm 0.851$   $\chi^2/\text{NDF}$ : 2383.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -133.342 $\pm$ 1.308  $\chi^2$ /NDF: 56.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -131.599 $\pm$ 1.243  $\chi^2$ /NDF: 258.2/9

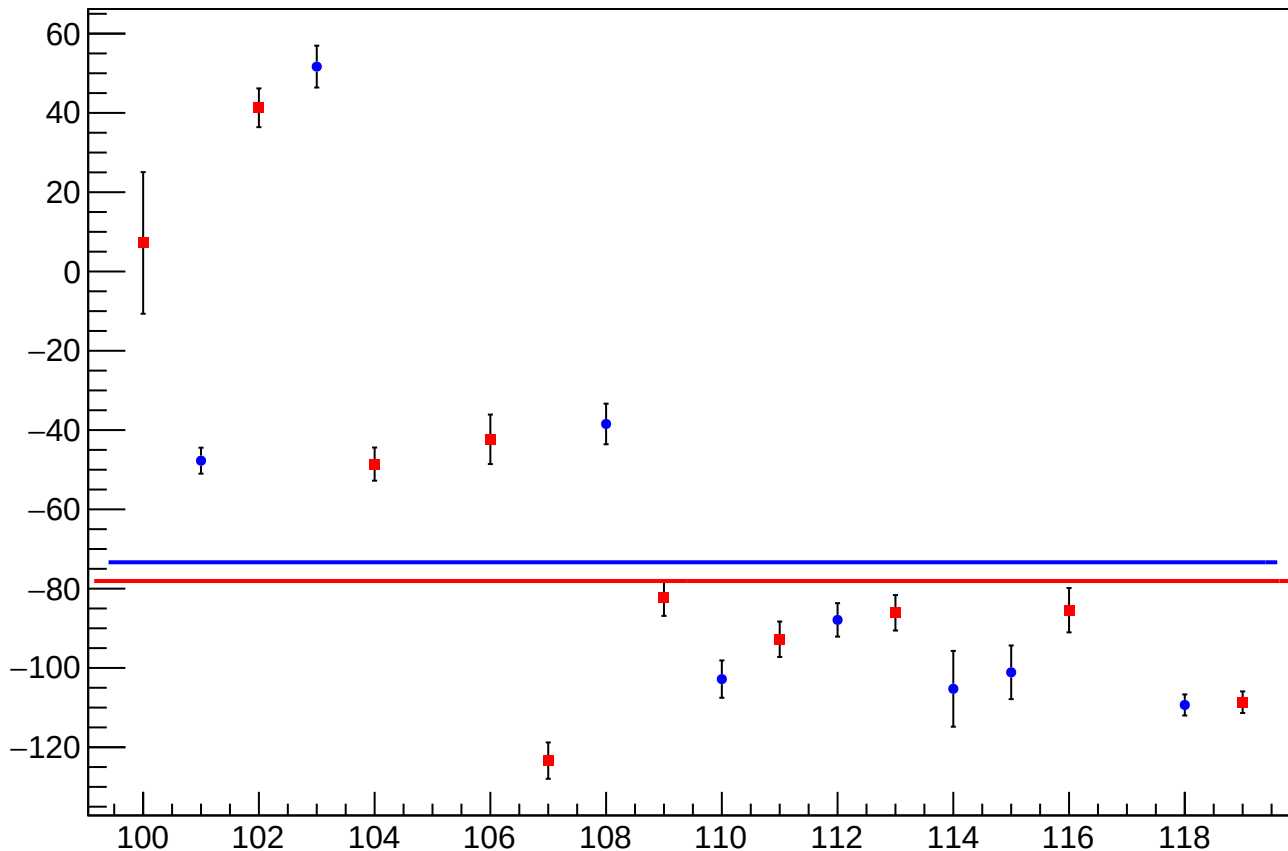
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -132.426 $\pm$ 0.901  $\chi^2$ /NDF: 315.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -73.351+/-1.503  $\chi^2/\text{NDF}$ : 930.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -78.073+/-1.427  $\chi^2/\text{NDF}$ : 942.4/9

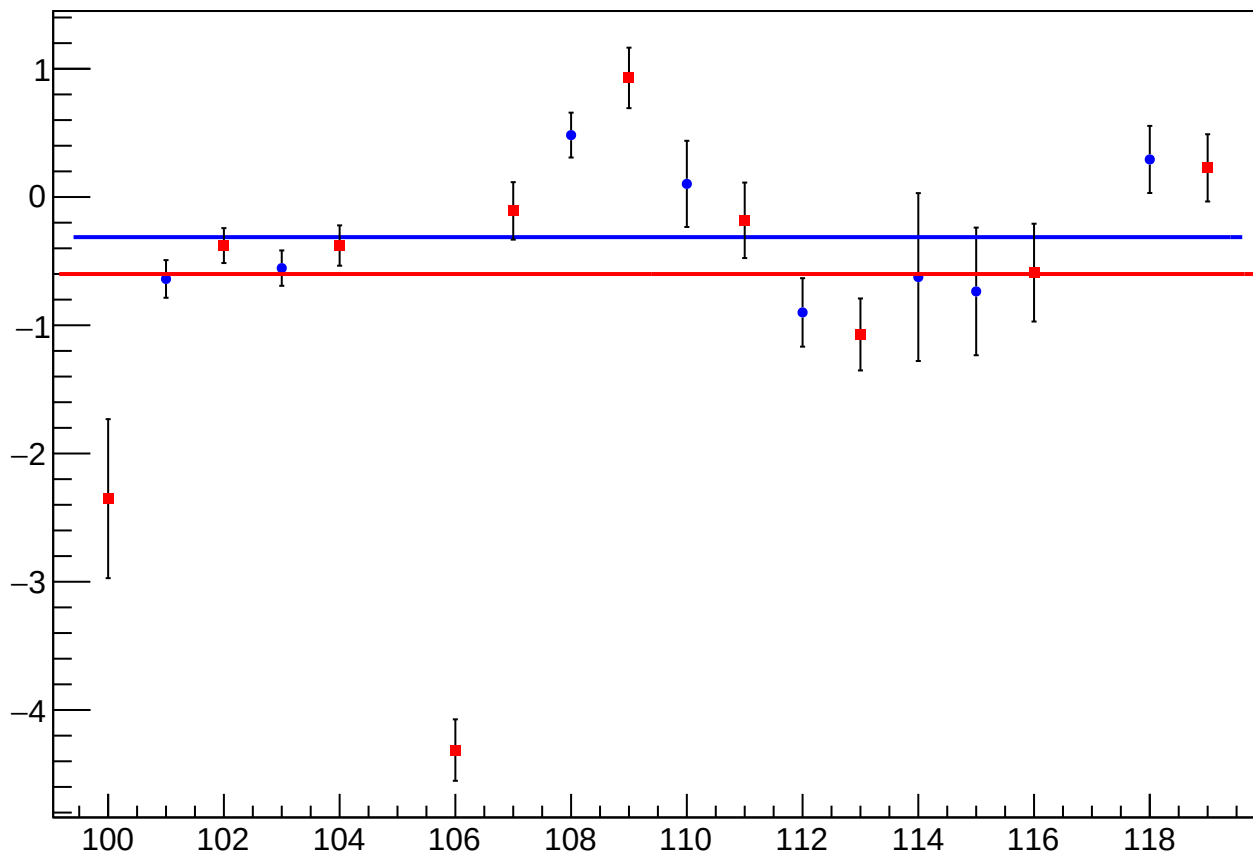
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -75.835+/-1.035  $\chi^2/\text{NDF}$ : 1878.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.313 \pm 0.075$   $\chi^2/\text{NDF}$ : 41.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.600 \pm 0.071$   $\chi^2/\text{NDF}$ : 314.4/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

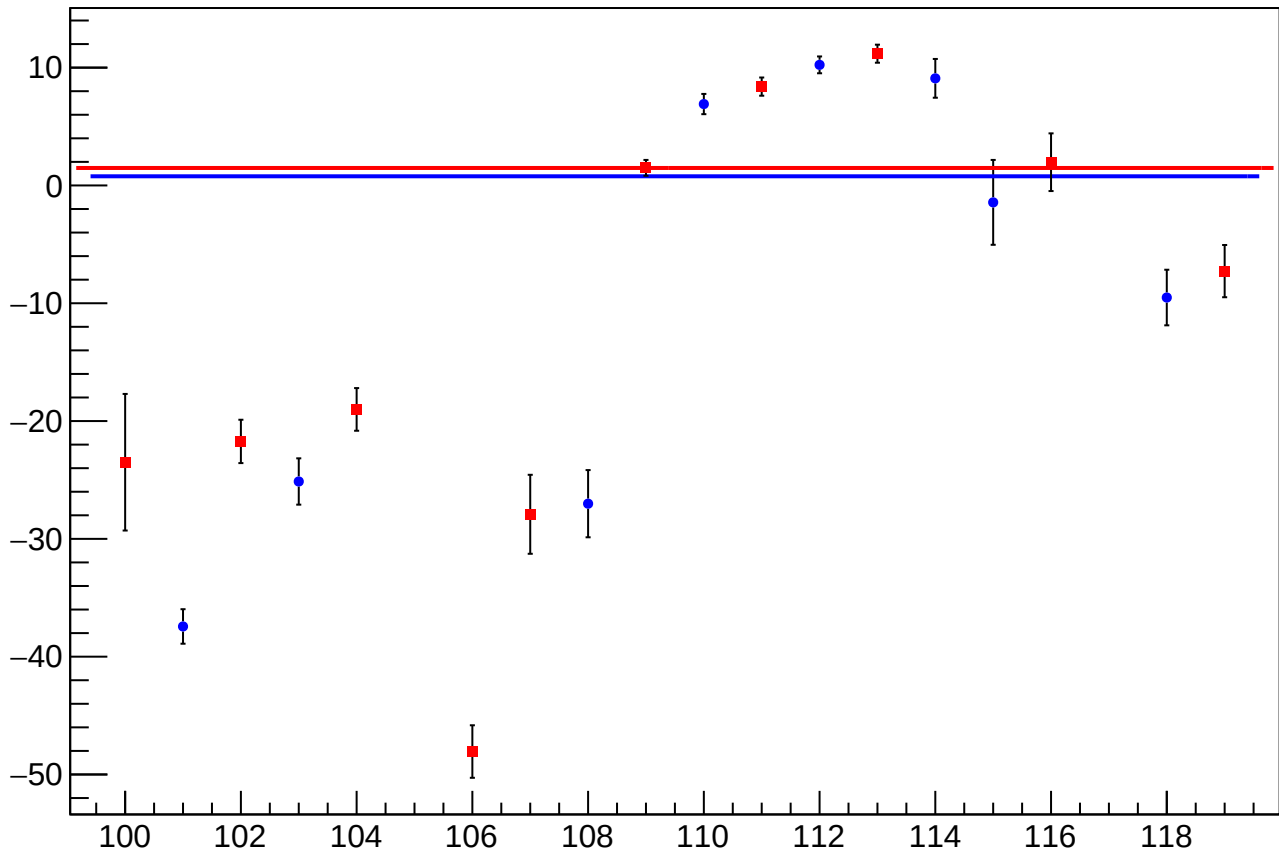
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.465 \pm 0.052$   $\chi^2/\text{NDF}$ : 363.5/17

- 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: 0.777 $\pm$ 0.457  $\chi^2$ /NDF: 1220.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.483 $\pm$ 0.381  $\chi^2$ /NDF: 1132.7/9

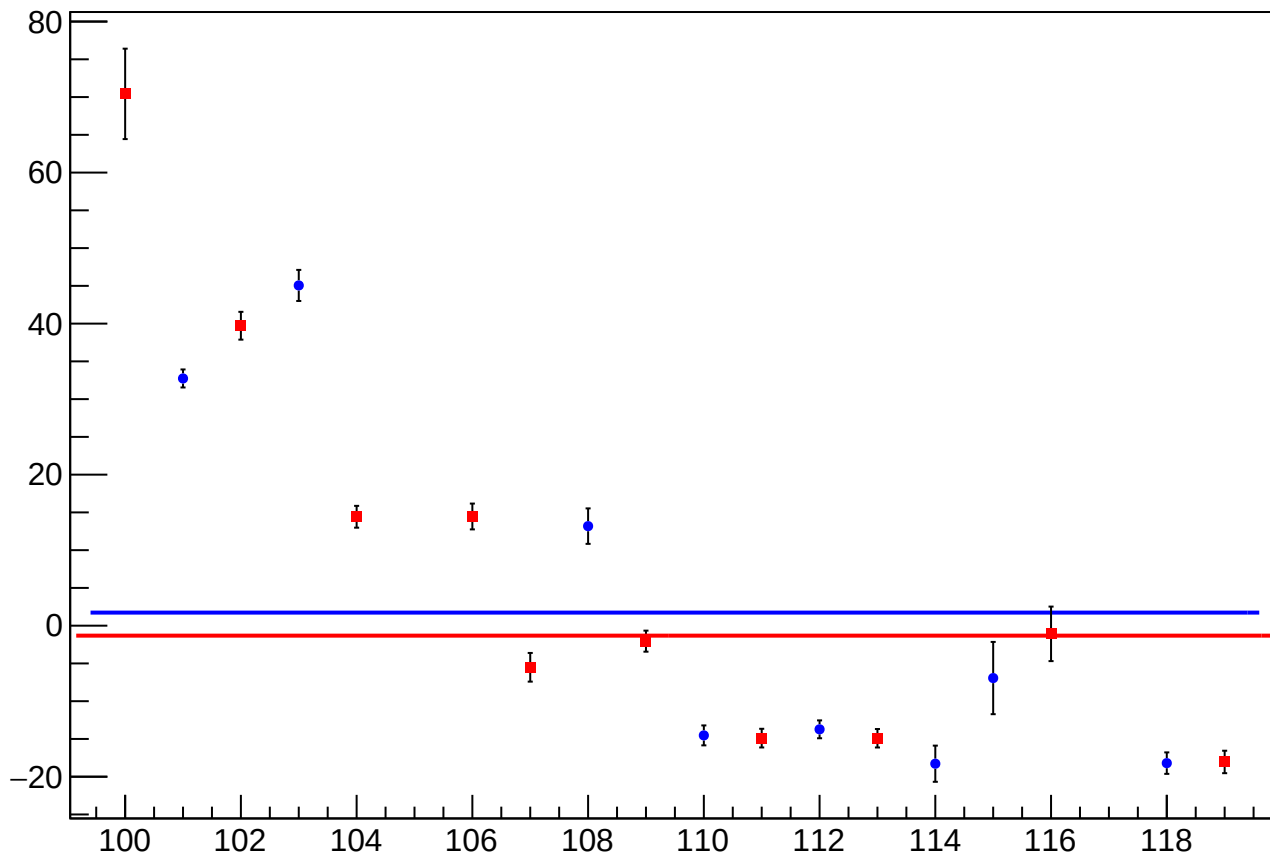
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.193 $\pm$ 0.293  $\chi^2$ /NDF: 2354.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 1.732 $\pm$ 0.566  $\chi^2$ /NDF: 1734.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.320 $\pm$ 0.514  $\chi^2$ /NDF: 1219.9/9

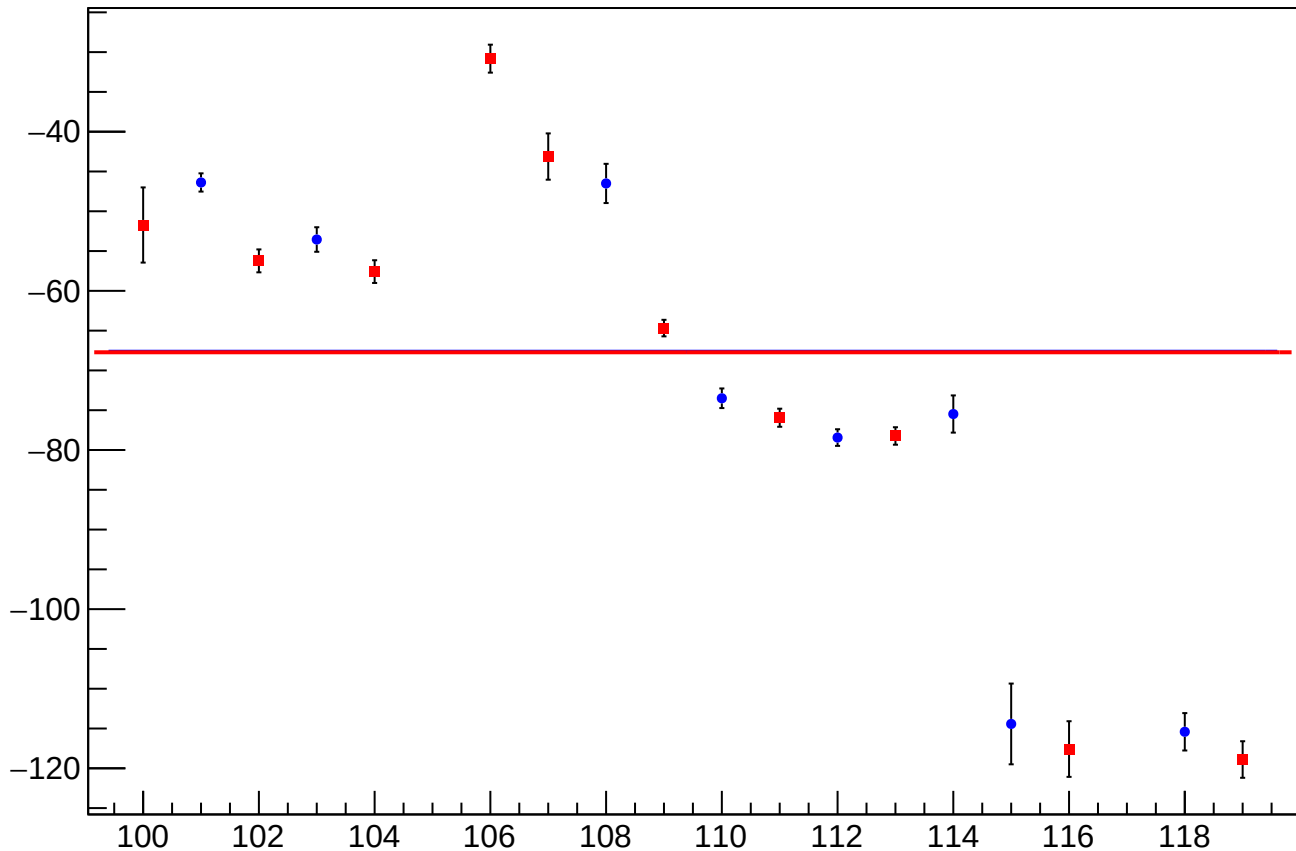
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.058 $\pm$ 0.380  $\chi^2$ /NDF: 2969.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -67.652+/-0.549  $\chi^2/\text{NDF}$ : 1140.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -67.720+/-0.484  $\chi^2/\text{NDF}$ : 1490.4/9

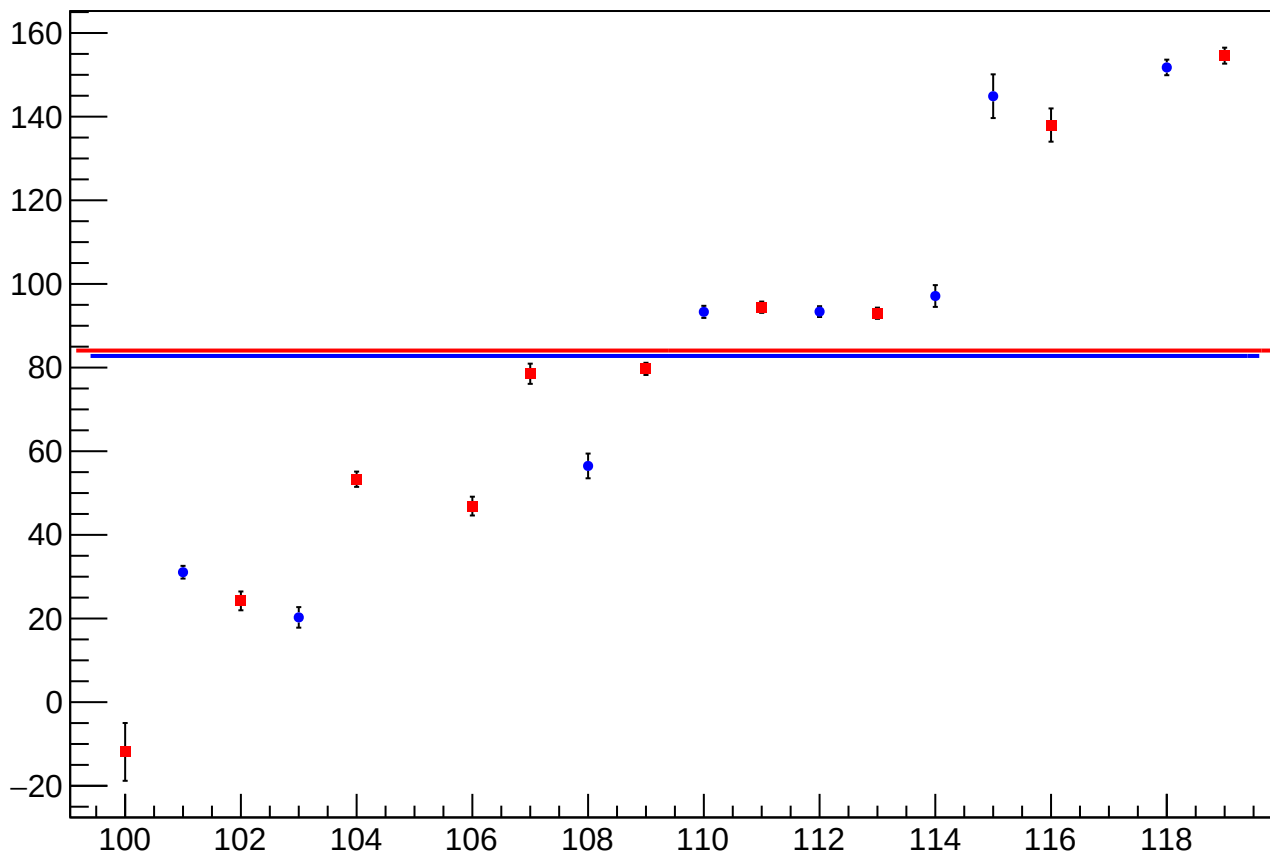
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -67.690+/-0.363  $\chi^2/\text{NDF}$ : 2630.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 82.779+/-0.665  $\chi^2/\text{NDF}$ : 3548.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 84.074+/-0.597  $\chi^2/\text{NDF}$ : 3125.1/9

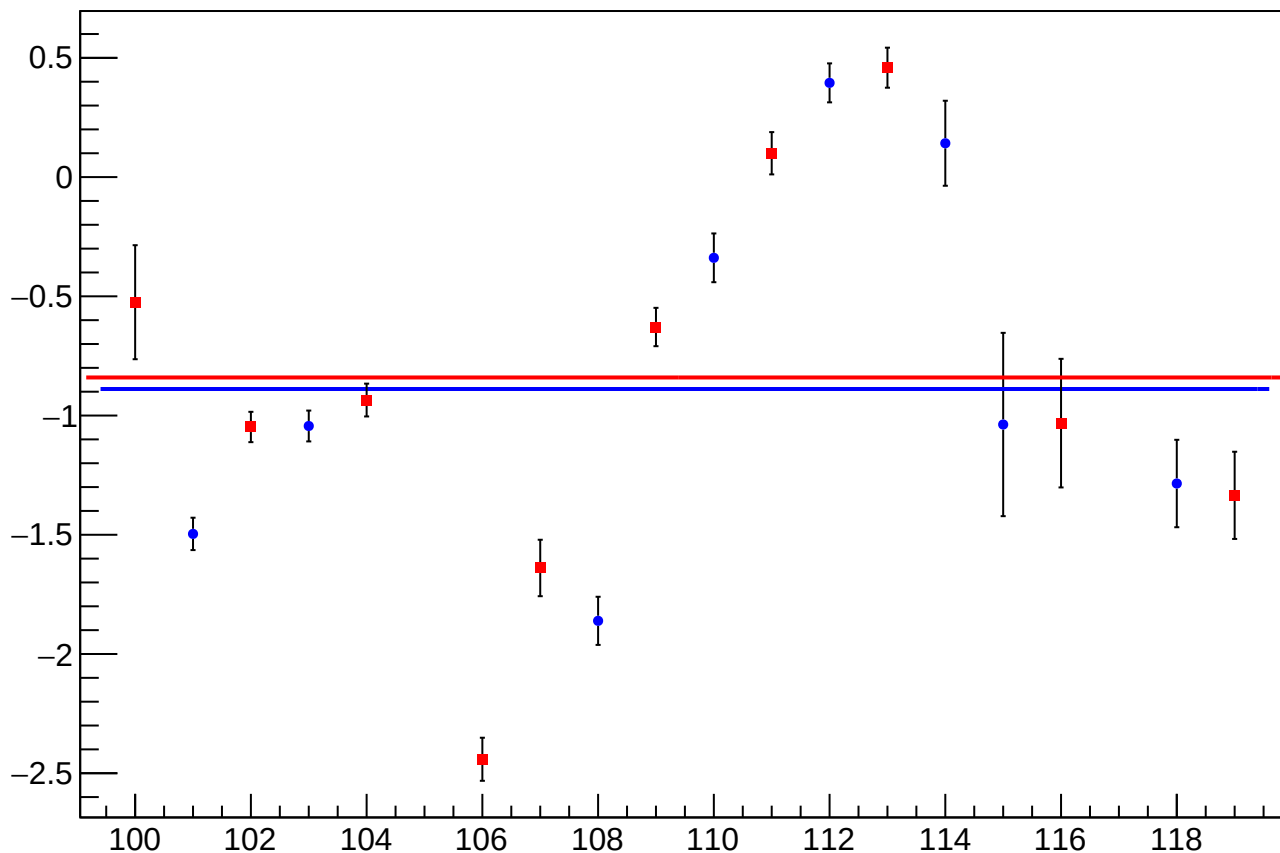
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 83.496+/-0.444  $\chi^2/\text{NDF}$ : 6675.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.889 \pm 0.034$   $\chi^2/\text{NDF}$ : 492.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.840 \pm 0.030$   $\chi^2/\text{NDF}$ : 740.9/9

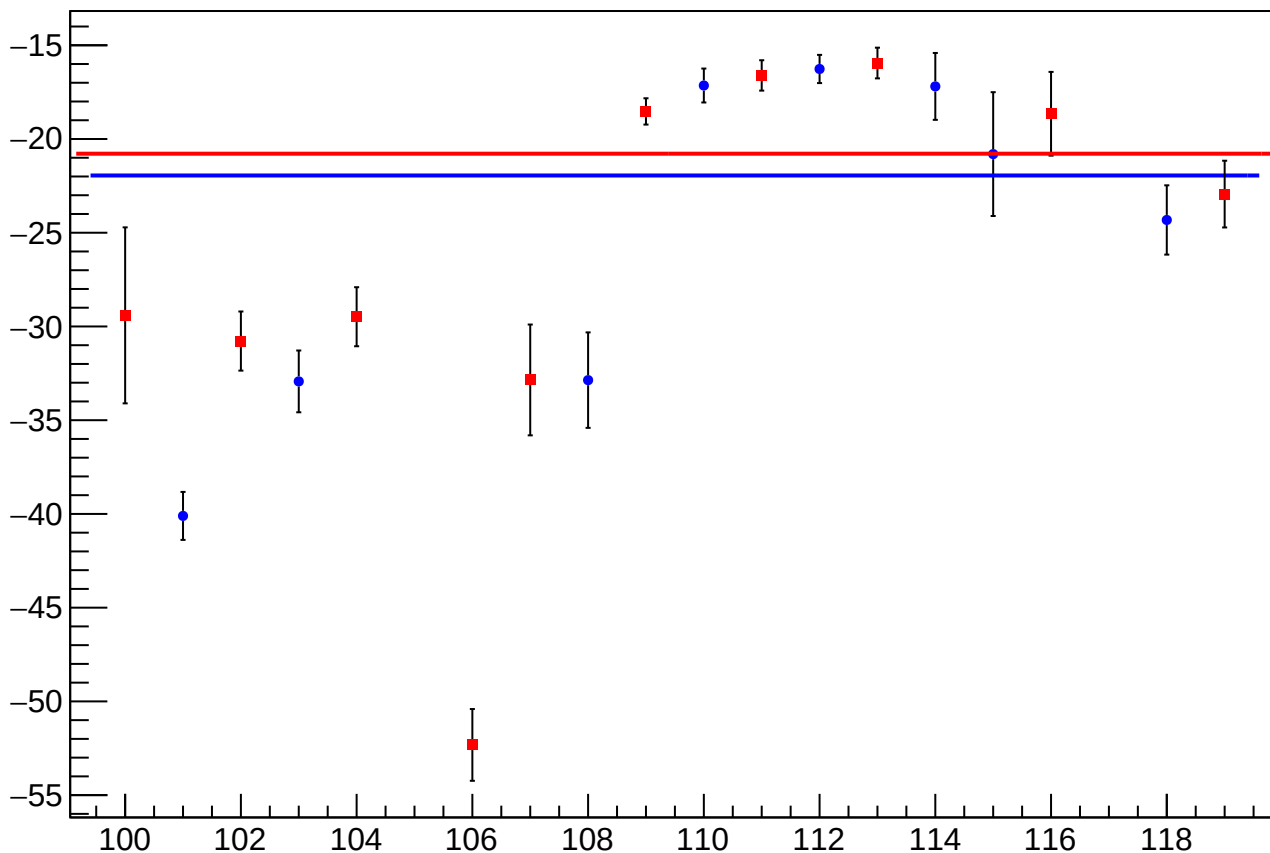
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.861 \pm 0.022$   $\chi^2/\text{NDF}$ : 1234.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-21.946 \pm 0.455$   $\chi^2/\text{NDF}$ : 358.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-20.784 \pm 0.383$   $\chi^2/\text{NDF}$ : 436.3/9

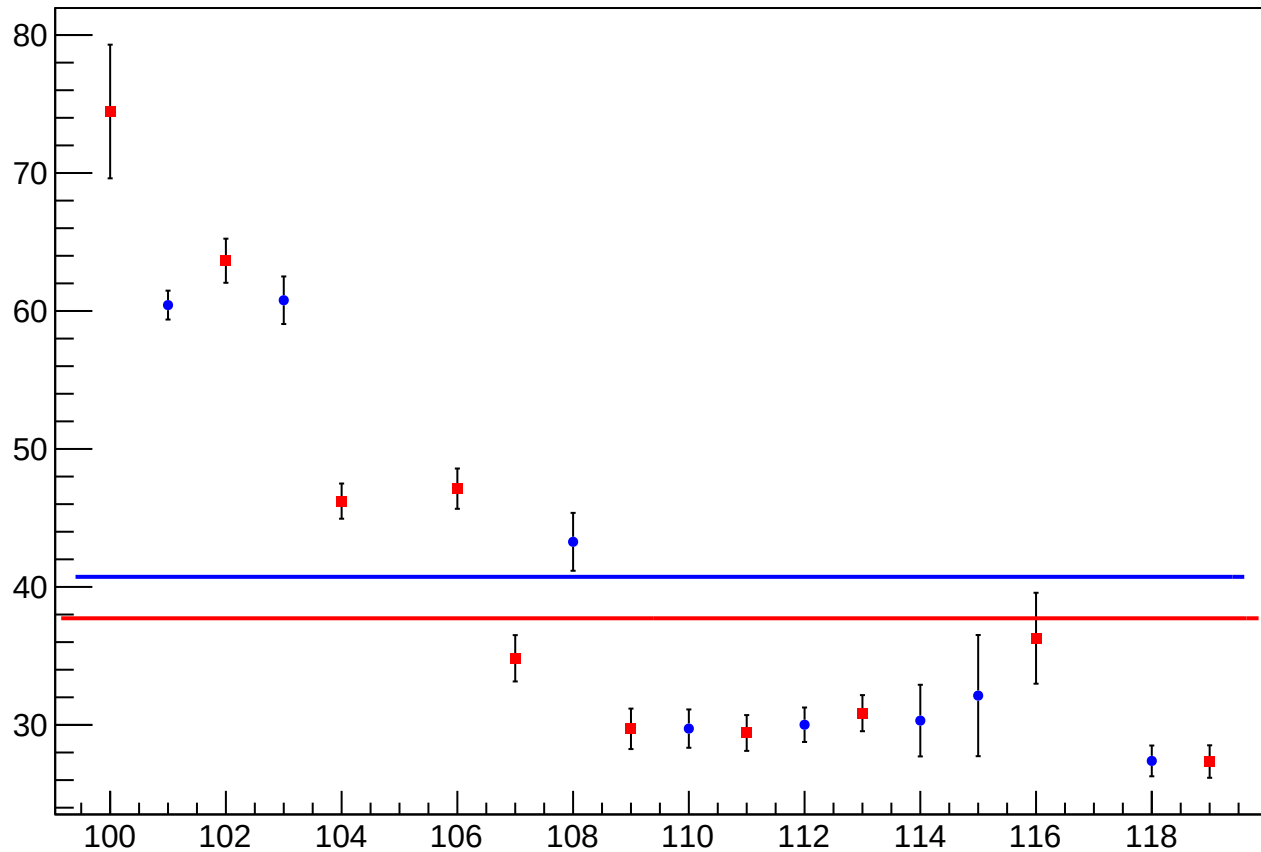
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-21.266 \pm 0.293$   $\chi^2/\text{NDF}$ : 798.3/17

- 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: 40.732 $\pm$ 0.524  $\chi^2$ /NDF: 790.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 37.727 $\pm$ 0.481  $\chi^2$ /NDF: 585.6/9

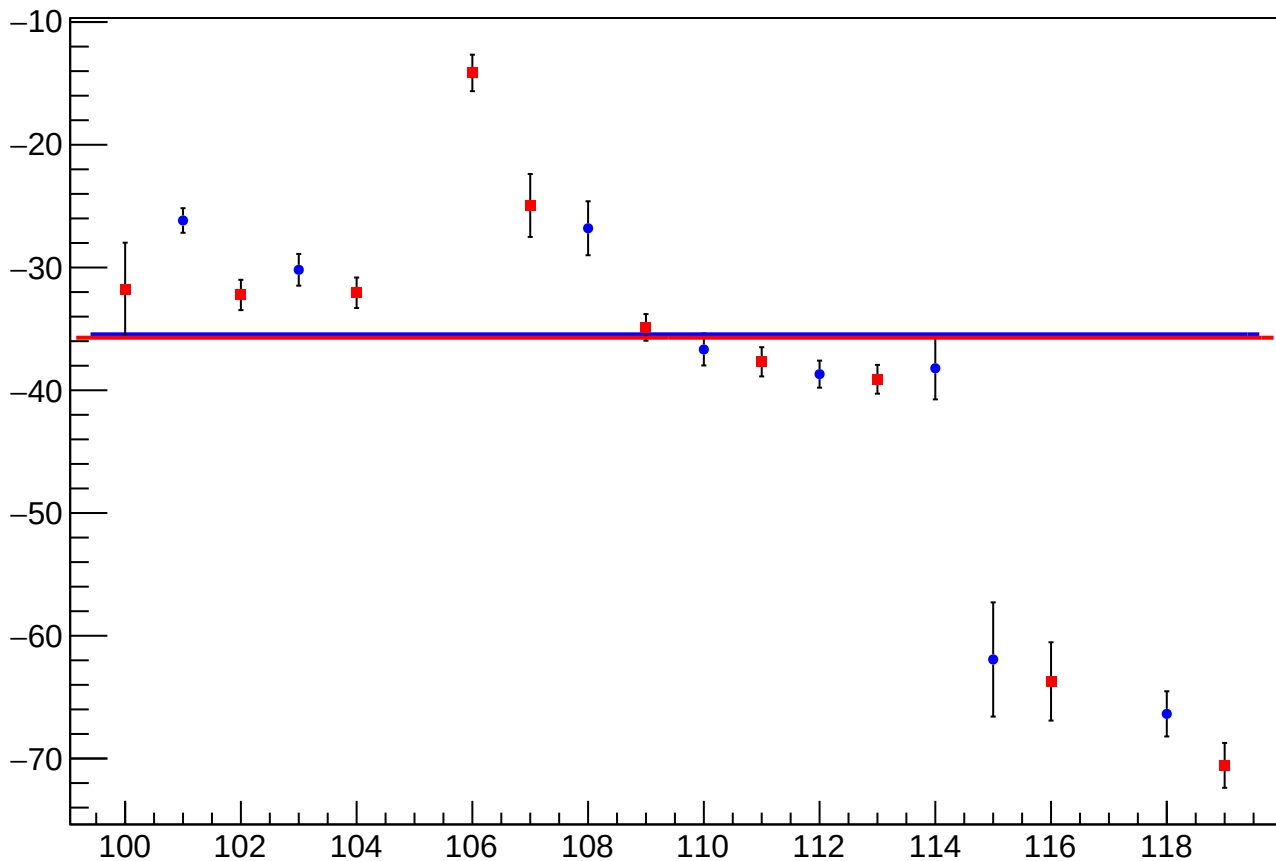
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 39.099 $\pm$ 0.354  $\chi^2$ /NDF: 1393.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -35.443 $\pm$ 0.519  $\chi^2$ /NDF: 443.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -35.719 $\pm$ 0.463  $\chi^2$ /NDF: 697.4/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

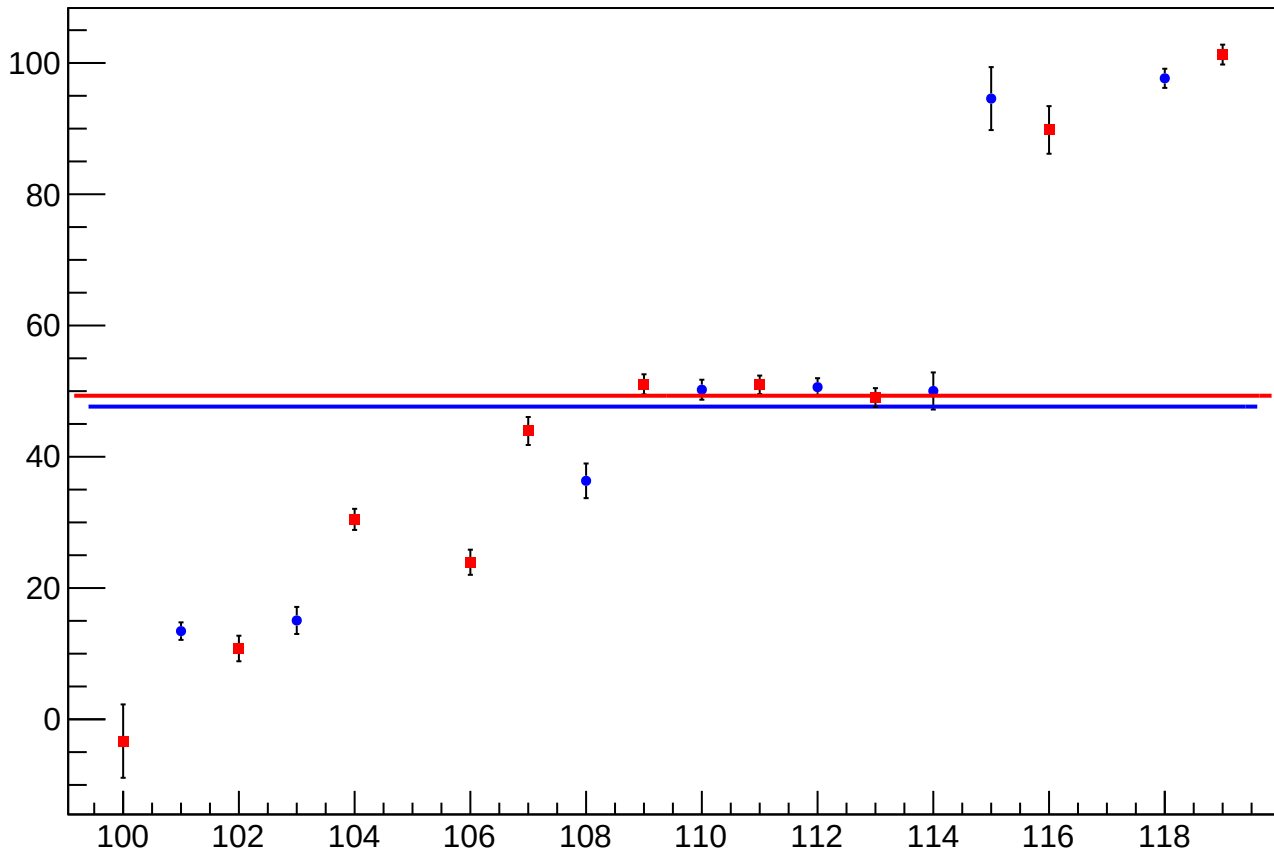
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -35.596 $\pm$ 0.346  $\chi^2$ /NDF: 1140.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 47.645 $\pm$ 0.626  $\chi^2$ /NDF: 2208.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 49.302 $\pm$ 0.568  $\chi^2$ /NDF: 2107.4/9

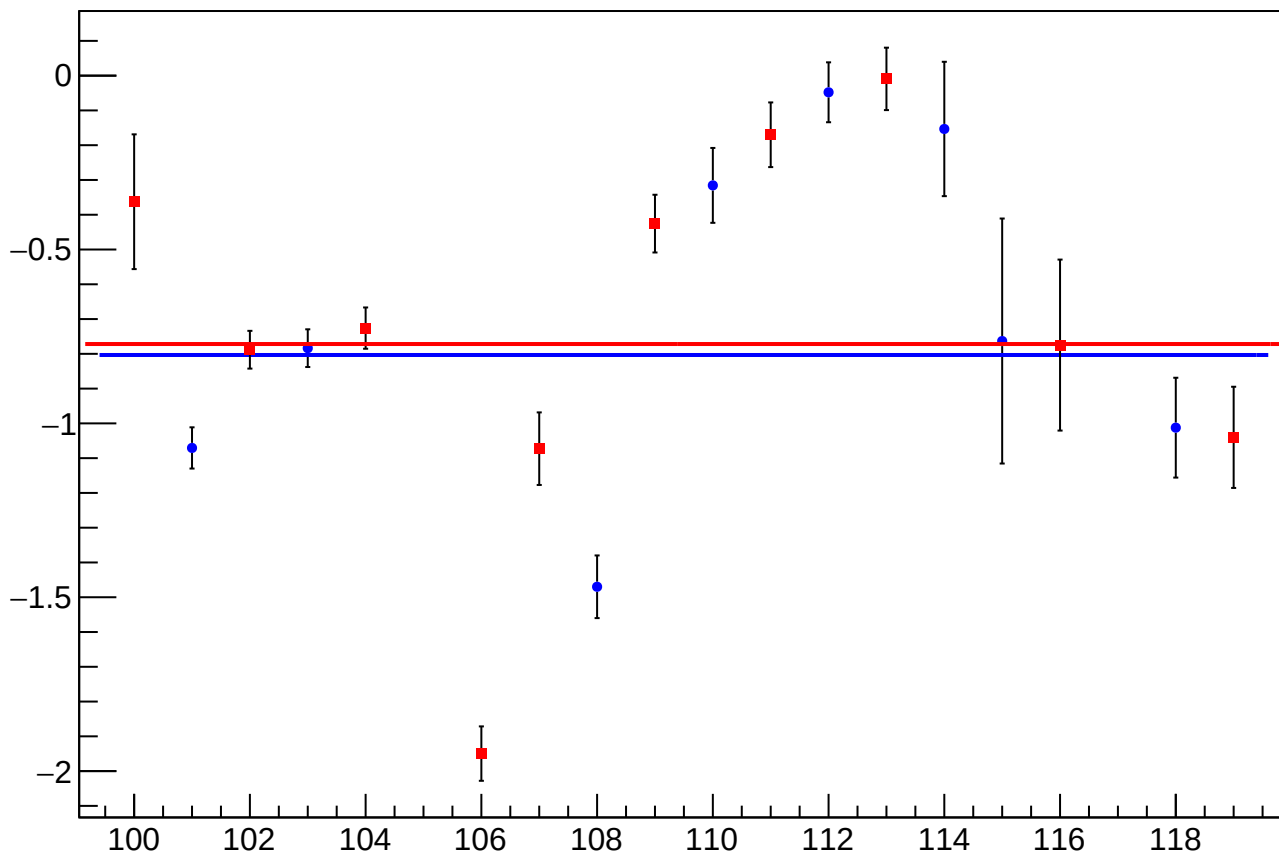
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 48.554 $\pm$ 0.420  $\chi^2$ /NDF: 4320.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.803 \pm 0.031$   $\chi^2/\text{NDF}$ : 186.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.772 \pm 0.027$   $\chi^2/\text{NDF}$ : 375.0/9

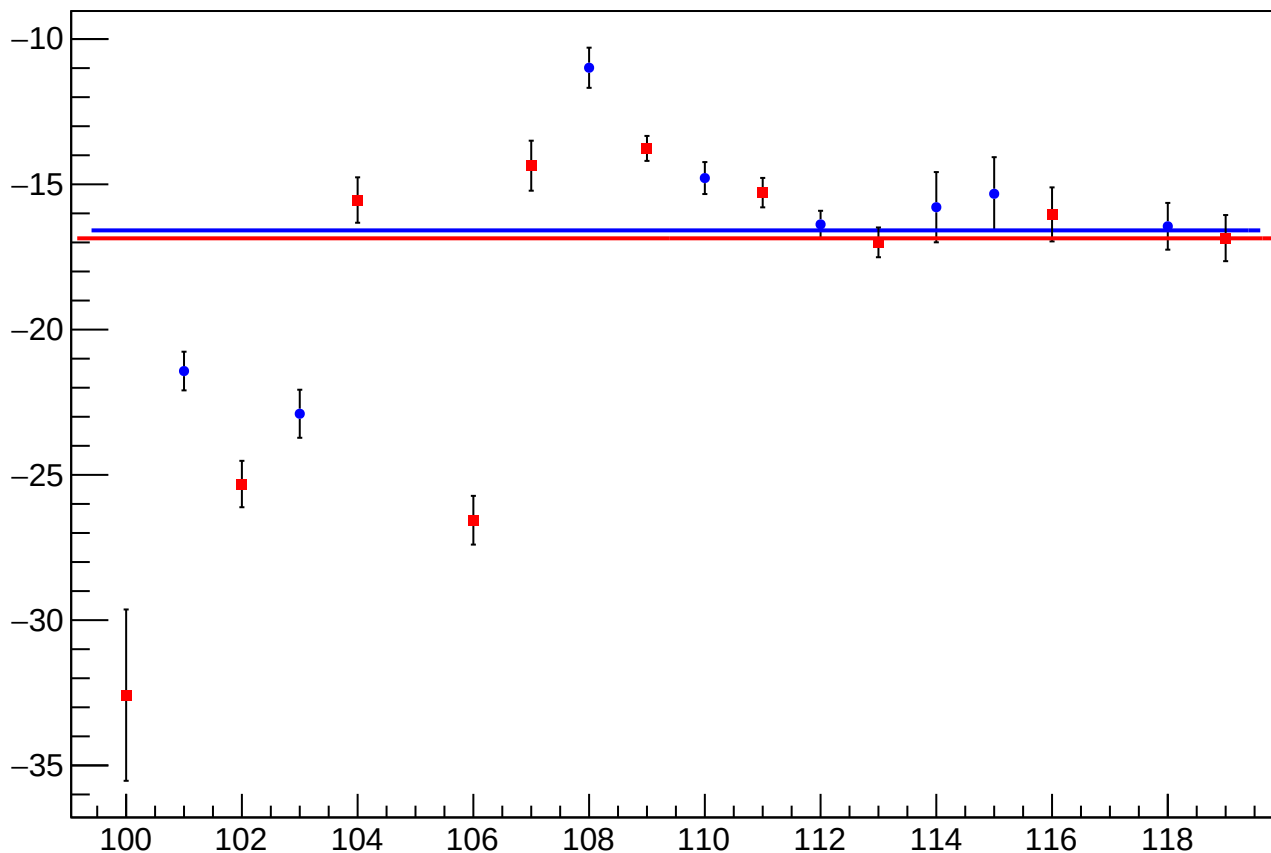
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.786 \pm 0.020$   $\chi^2/\text{NDF}$ : 561.7/17

- 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: -16.585 $\pm$ 0.246  $\chi^2$ /NDF: 189.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -16.859 $\pm$ 0.213  $\chi^2$ /NDF: 348.1/9

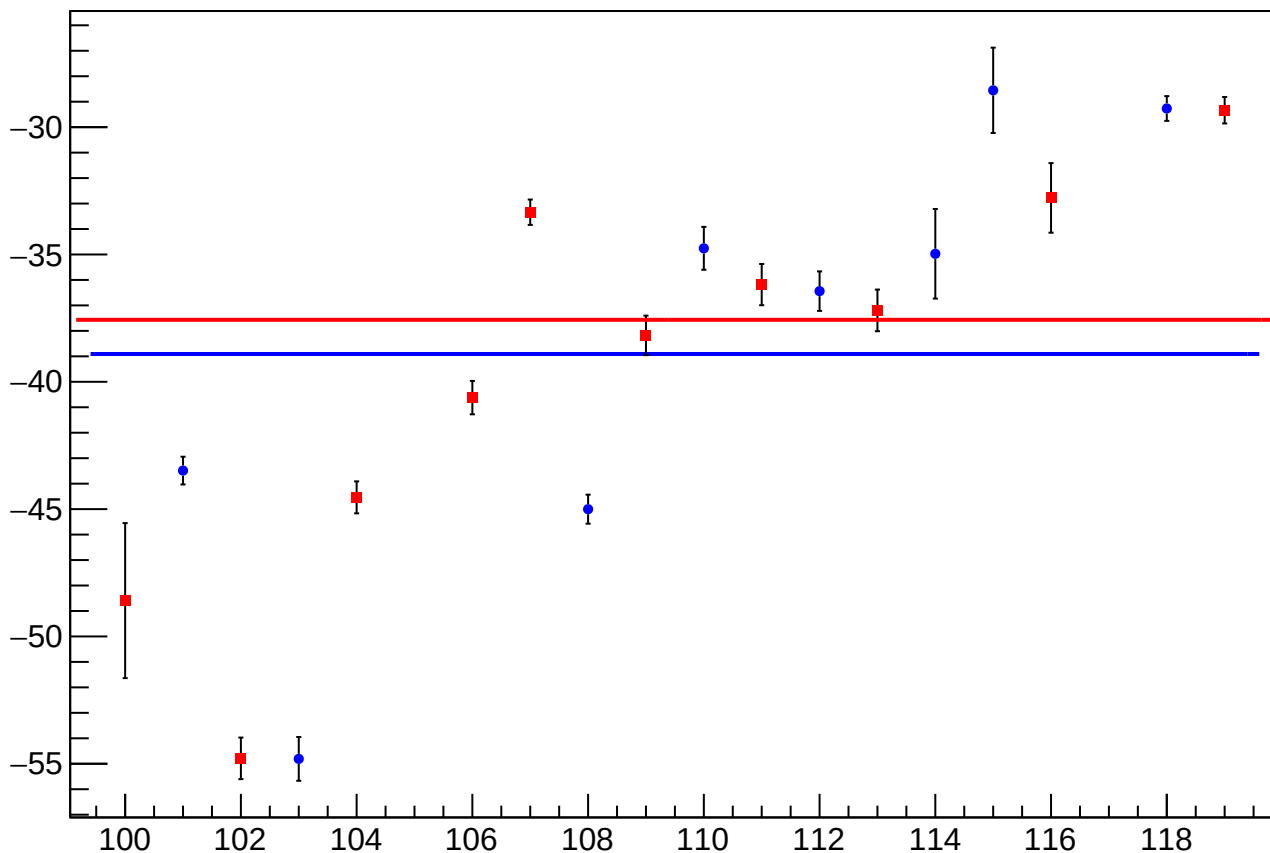
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -16.741 $\pm$ 0.161  $\chi^2$ /NDF: 538.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-38.908 \pm 0.252$   $\chi^2/\text{NDF}: 998.0/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-37.566 \pm 0.227$   $\chi^2/\text{NDF}: 942.8/9$

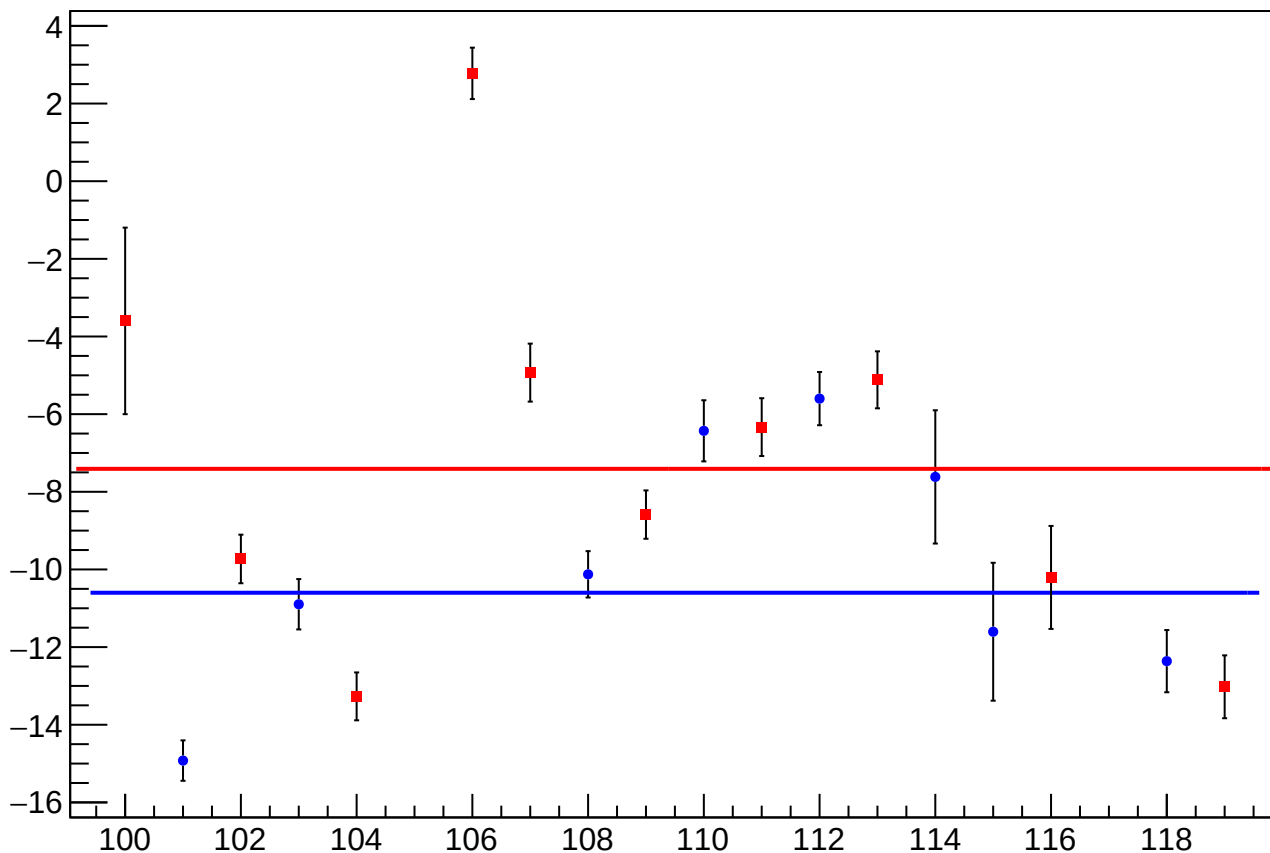
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-38.168 \pm 0.168$   $\chi^2/\text{NDF}: 1956.5/17$

- 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:  $-10.600 \pm 0.260$   $\chi^2/\text{NDF}: 159.3/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-7.408 \pm 0.237$   $\chi^2/\text{NDF}: 422.3/9$

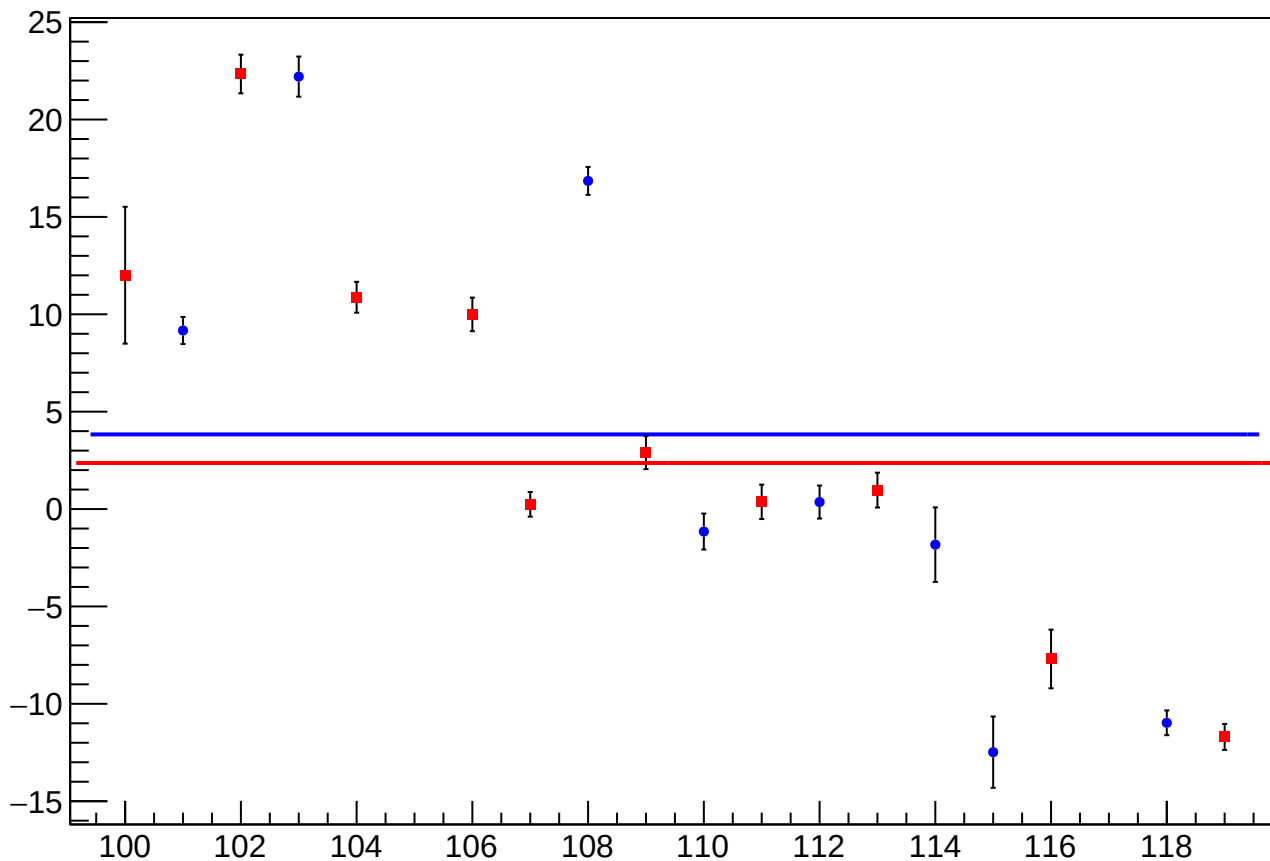
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-8.860 \pm 0.175$   $\chi^2/\text{NDF}: 663.9/17$

- 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: 3.833 $\pm$ 0.307  $\chi^2$ /NDF: 1384.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2.366 $\pm$ 0.276  $\chi^2$ /NDF: 1114.6/9

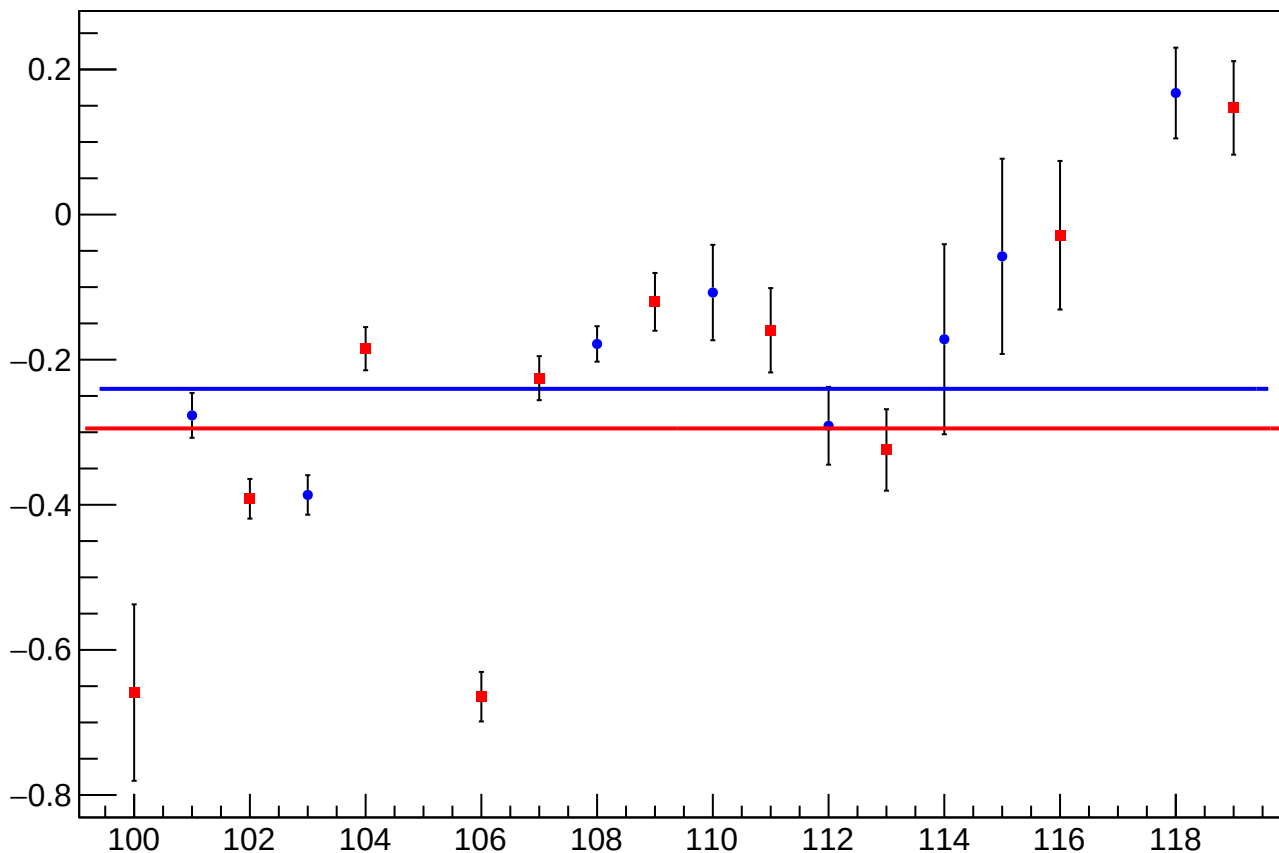
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.020 $\pm$ 0.205  $\chi^2$ /NDF: 2511.3/17

- 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:  $-0.240 \pm 0.014$   $\chi^2/\text{NDF}$ : 86.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.295 \pm 0.013$   $\chi^2/\text{NDF}$ : 236.4/9

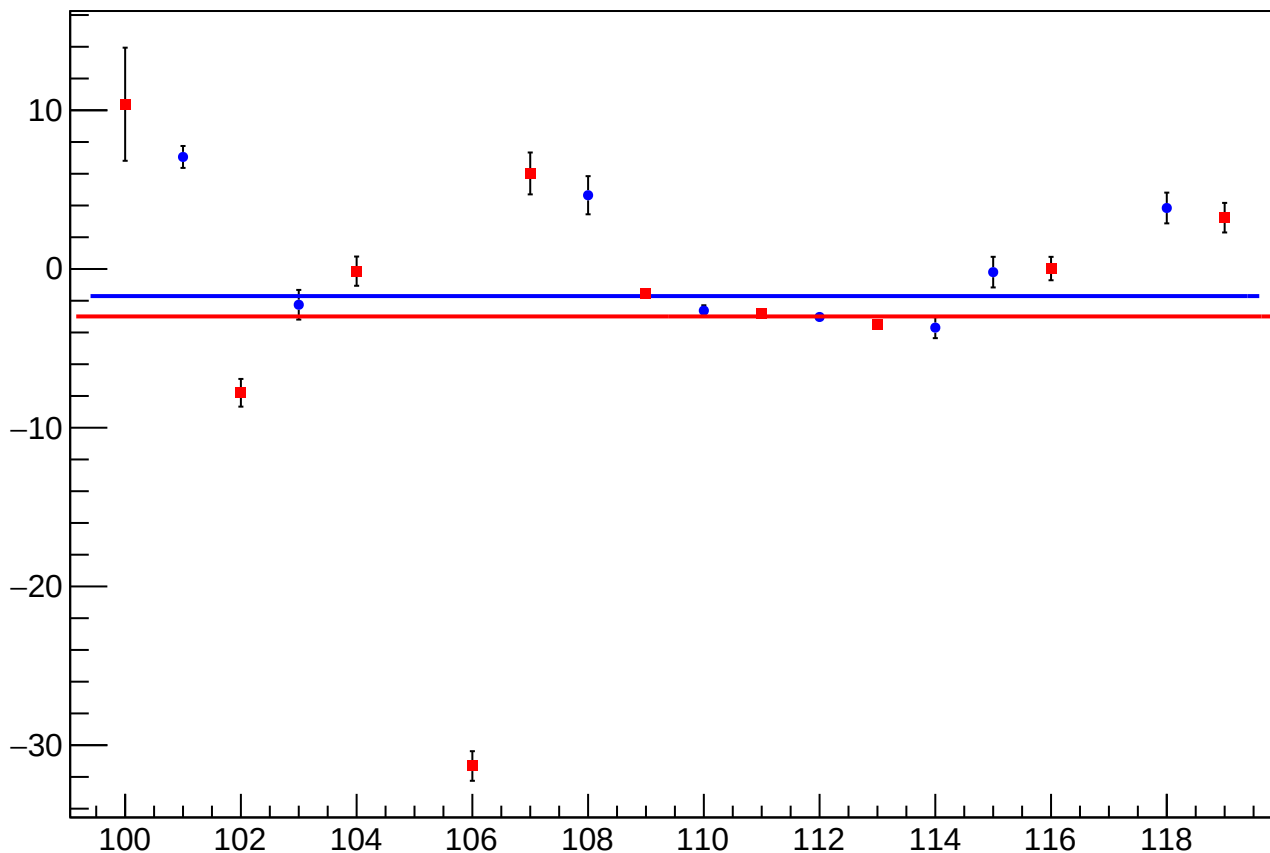
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.270 \pm 0.010$   $\chi^2/\text{NDF}$ : 330.9/17

- 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: -1.707+/-0.182  $\chi^2/\text{NDF}$ : 263.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.989+/-0.153  $\chi^2/\text{NDF}$ : 1116.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

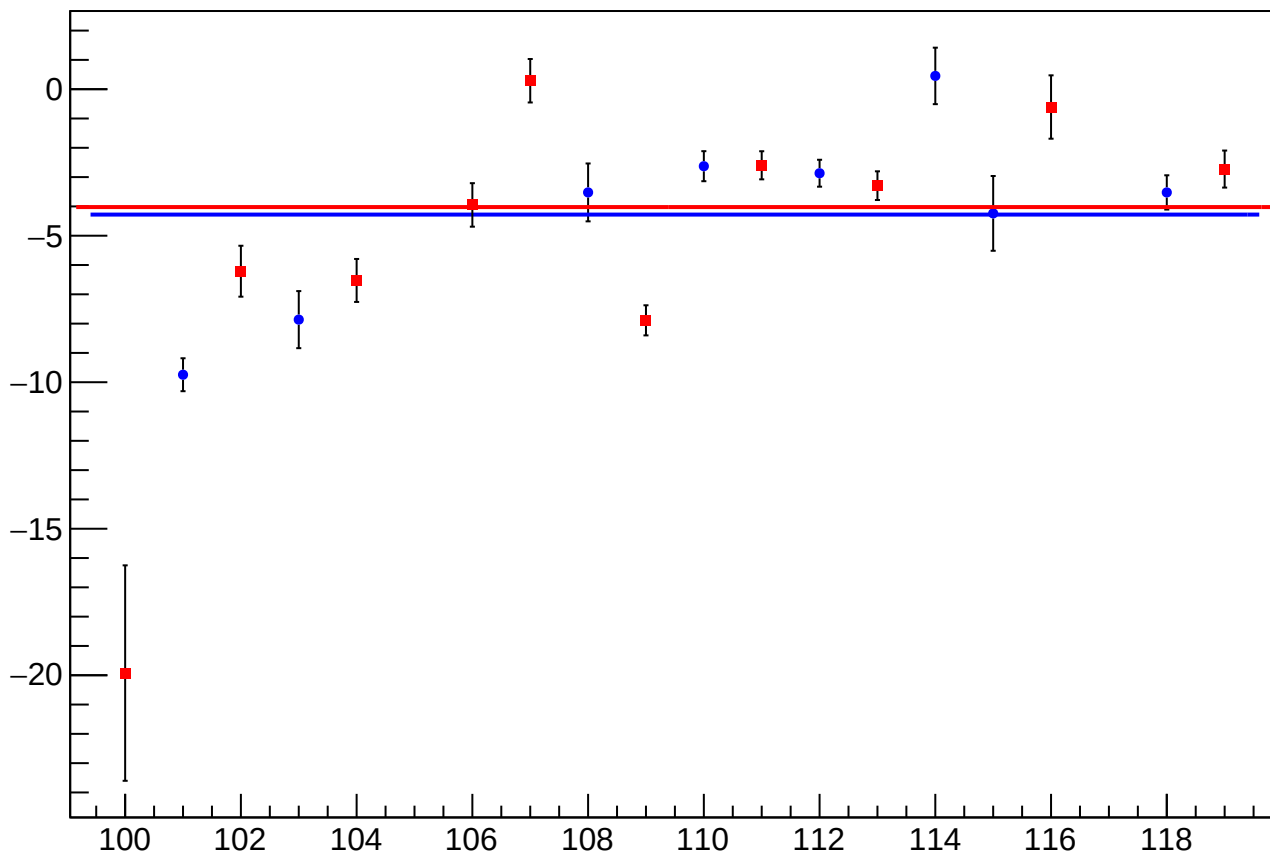
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.458+/-0.117  $\chi^2/\text{NDF}$ : 1409.3/17

- 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:  $-4.279 \pm 0.233$   $\chi^2/\text{NDF}$ : 154.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.023 \pm 0.211$   $\chi^2/\text{NDF}$ : 152.4/9

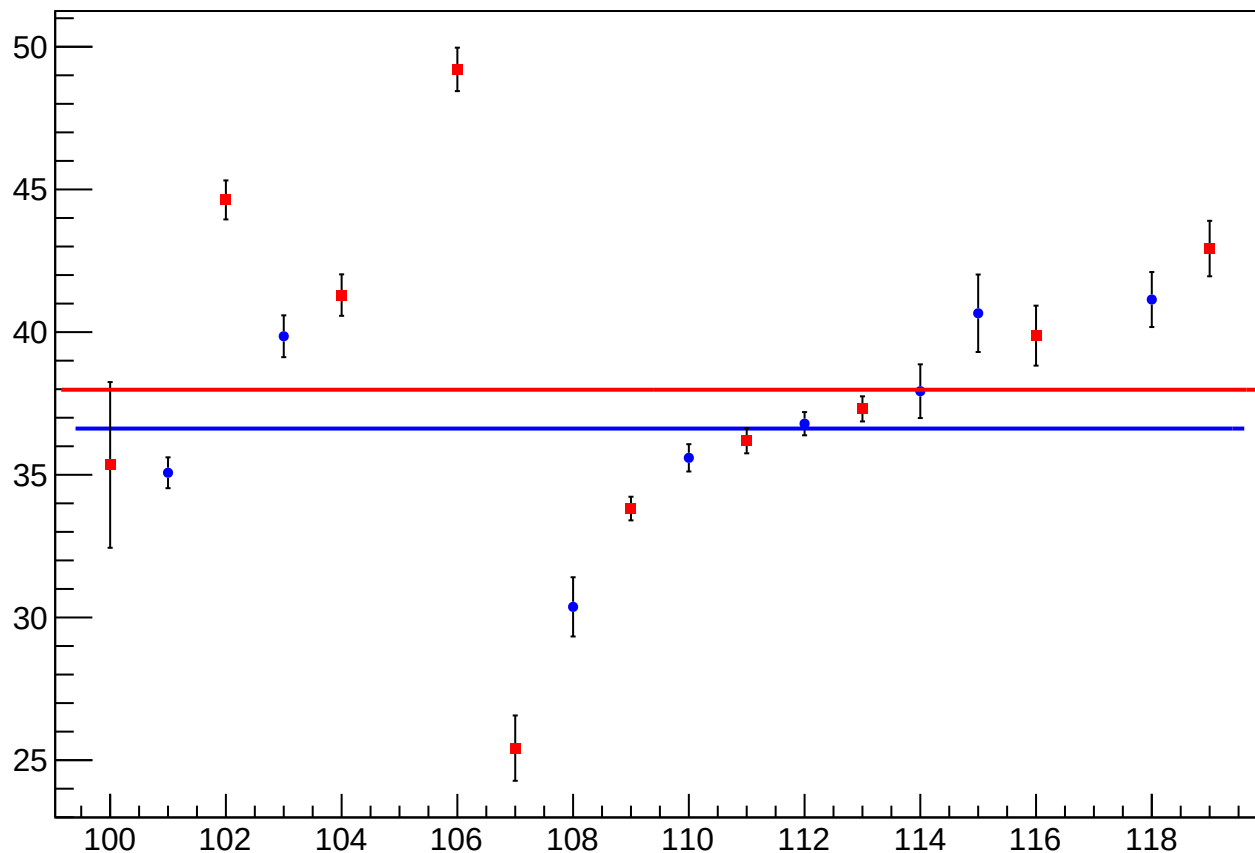
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-4.138 \pm 0.156$   $\chi^2/\text{NDF}$ : 307.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 36.621 $\pm$ 0.227  $\chi^2$ /NDF: 101.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 37.981 $\pm$ 0.201  $\chi^2$ /NDF: 603.3/9

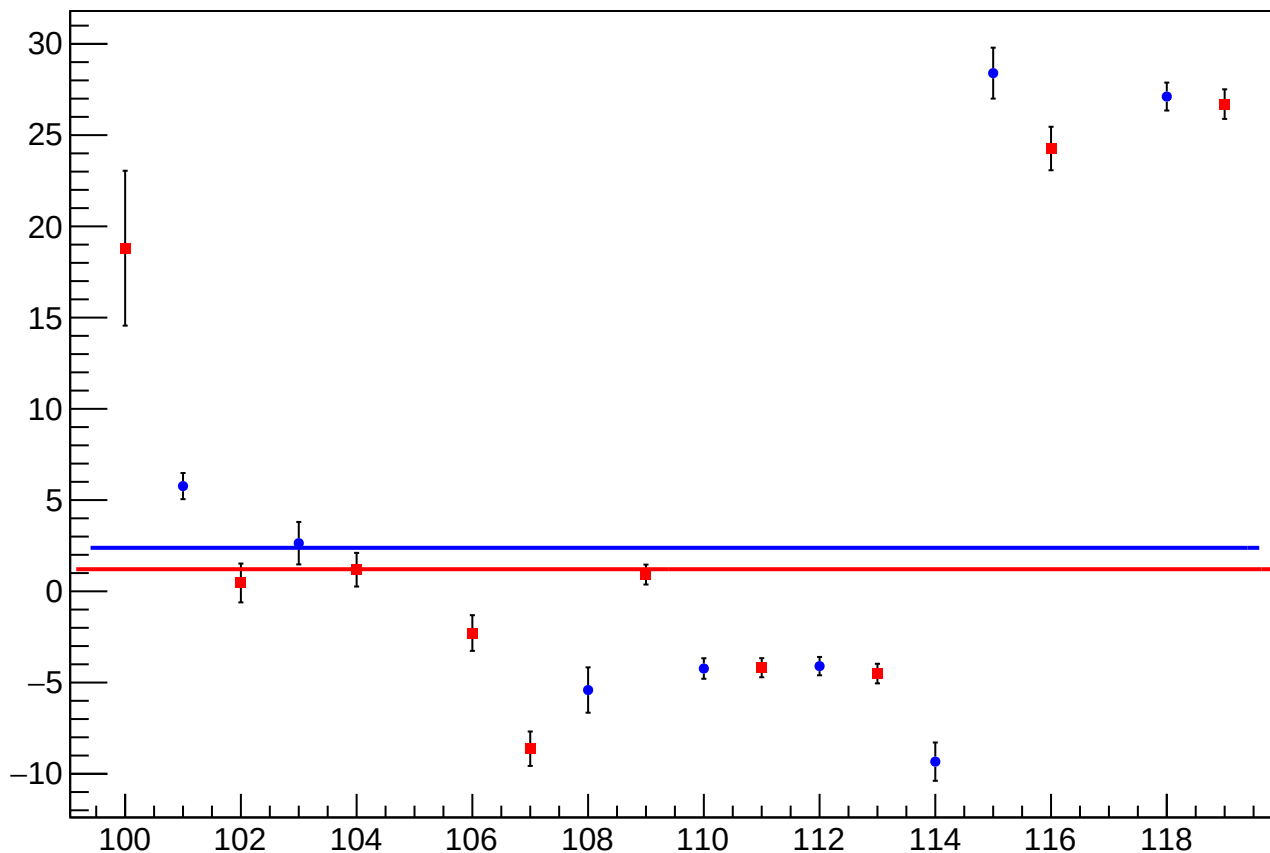
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.384 $\pm$ 0.151  $\chi^2$ /NDF: 724.9/17

- 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: 2.384 $\pm$ 0.271  $\chi^2$ /NDF: 1882.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.211 $\pm$ 0.243  $\chi^2$ /NDF: 1722.3/9

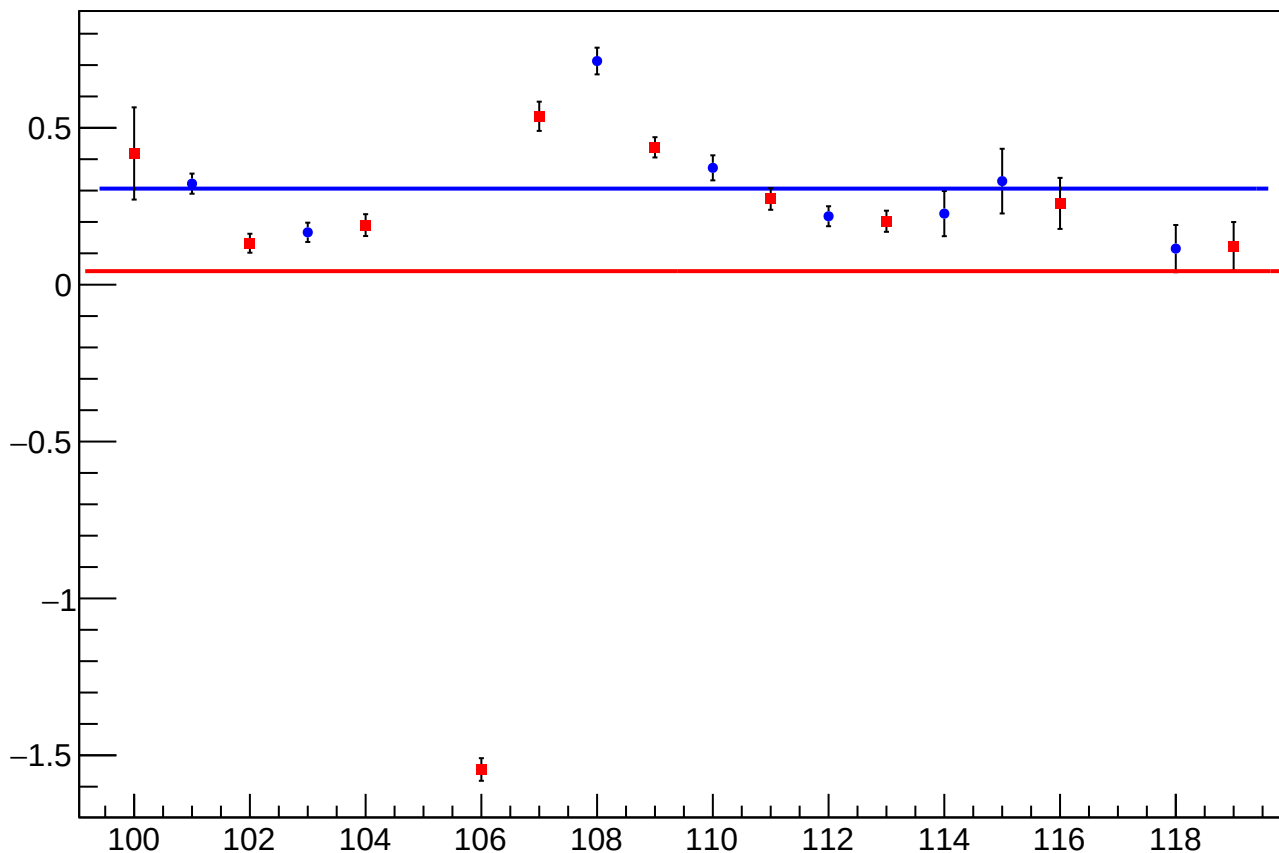
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.732 $\pm$ 0.181  $\chi^2$ /NDF: 3615.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.306 $\pm$ 0.015  $\chi^2$ /NDF: 130.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.043 $\pm$ 0.013  $\chi^2$ /NDF: 2308.9/9

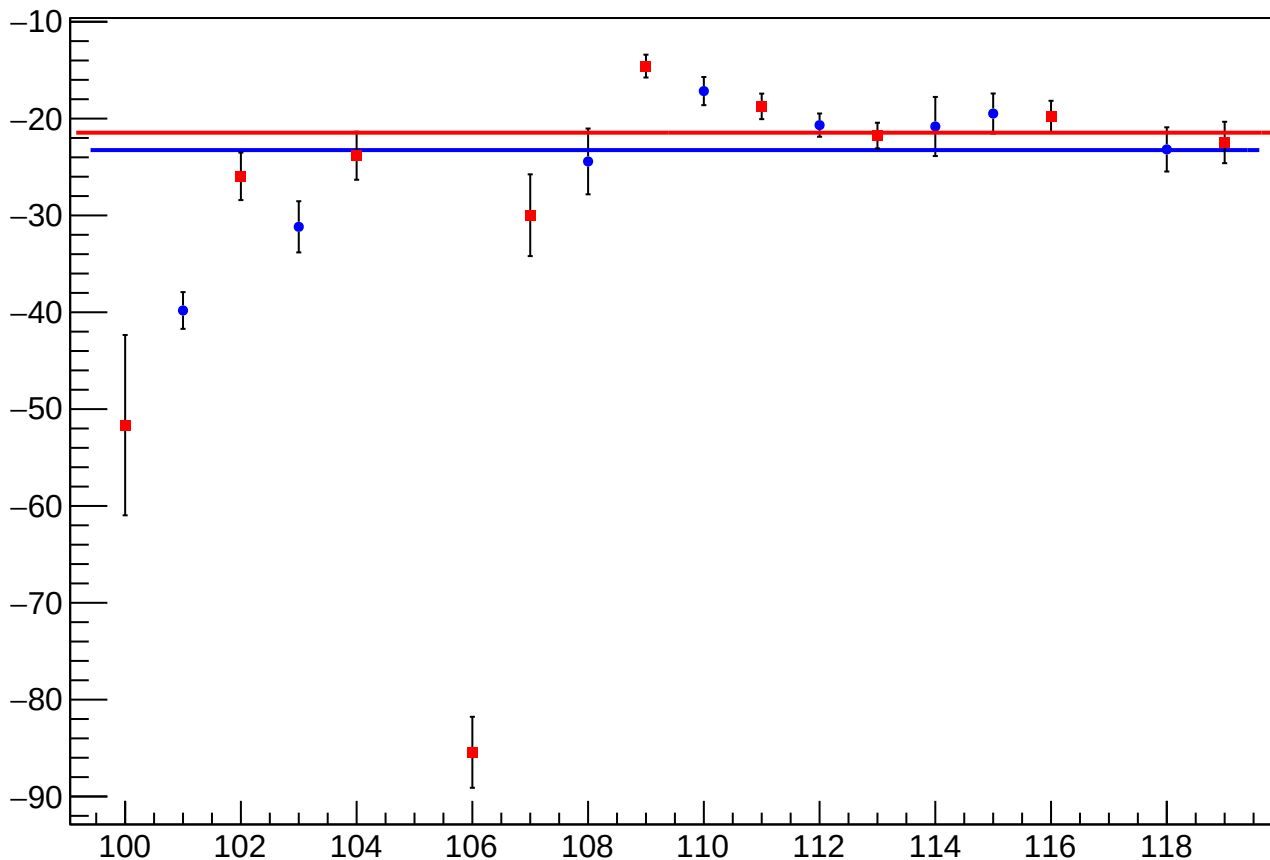
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.156 $\pm$ 0.010  $\chi^2$ /NDF: 2623.1/17

- 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:  $-23.253 \pm 0.673$   $\chi^2/\text{NDF}$ : 111.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-21.454 \pm 0.585$   $\chi^2/\text{NDF}$ : 363.0/9

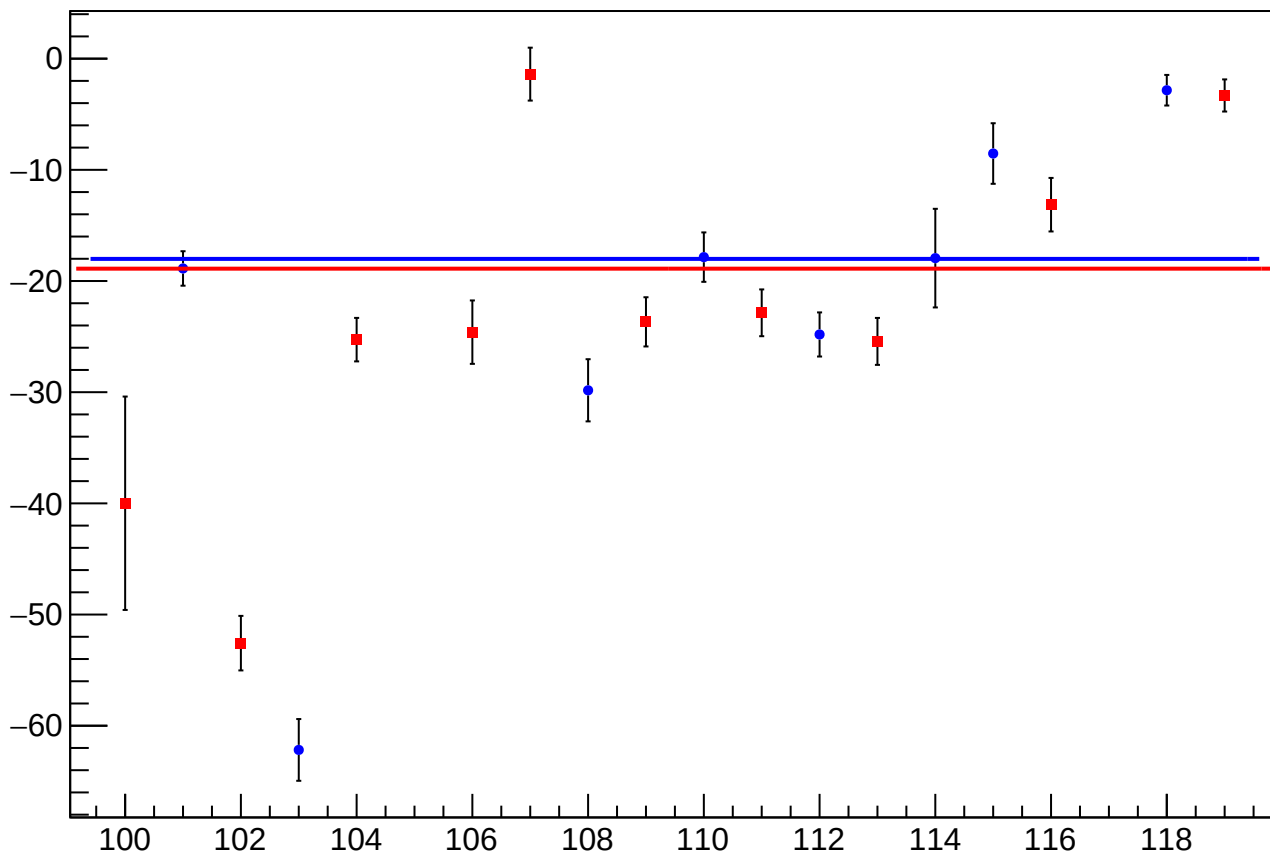
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-22.229 \pm 0.442$   $\chi^2/\text{NDF}$ : 478.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-18.011 \pm 0.736$   $\chi^2/\text{NDF}$ : 416.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-18.889 \pm 0.700$   $\chi^2/\text{NDF}$ : 401.9/9

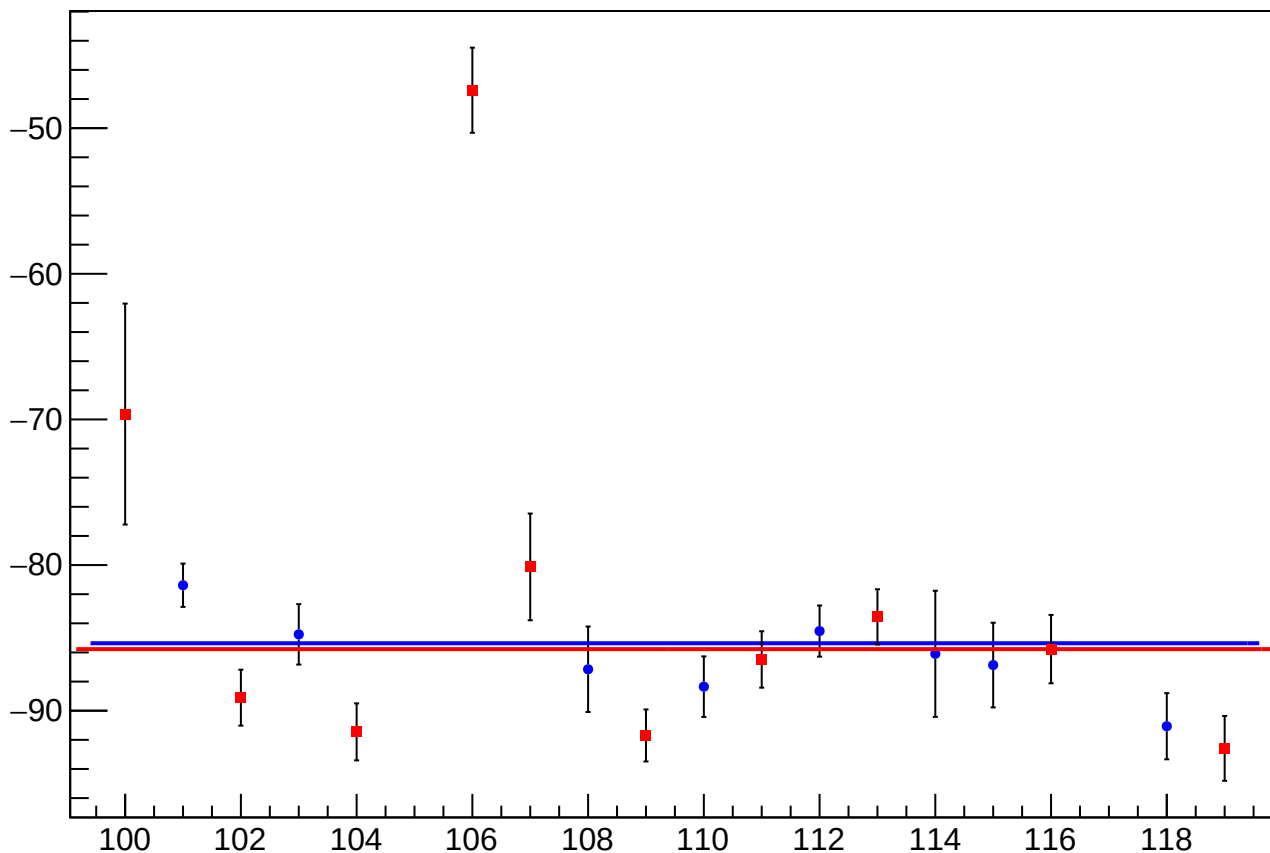
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-18.472 \pm 0.507$   $\chi^2/\text{NDF}$ : 819.0/17

- 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: -85.368 $\pm$ 0.762  $\chi^2$ /NDF: 16.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -85.771 $\pm$ 0.710  $\chi^2$ /NDF: 212.7/9

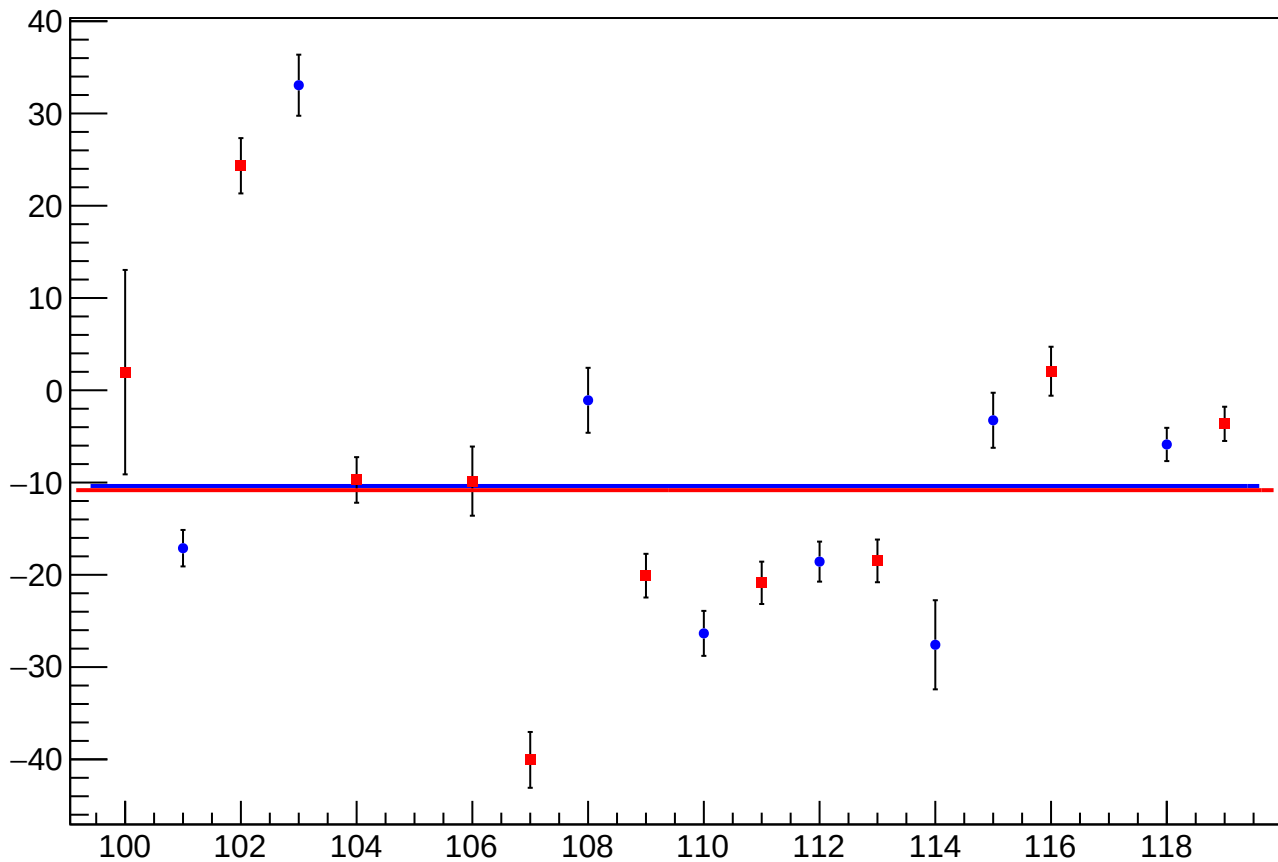
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -85.583 $\pm$ 0.520  $\chi^2$ /NDF: 229.3/17

- 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:  $-10.372 \pm 0.886$   $\chi^2/\text{NDF}$ : 272.7/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-10.825 \pm 0.830$   $\chi^2/\text{NDF}$ : 316.6/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

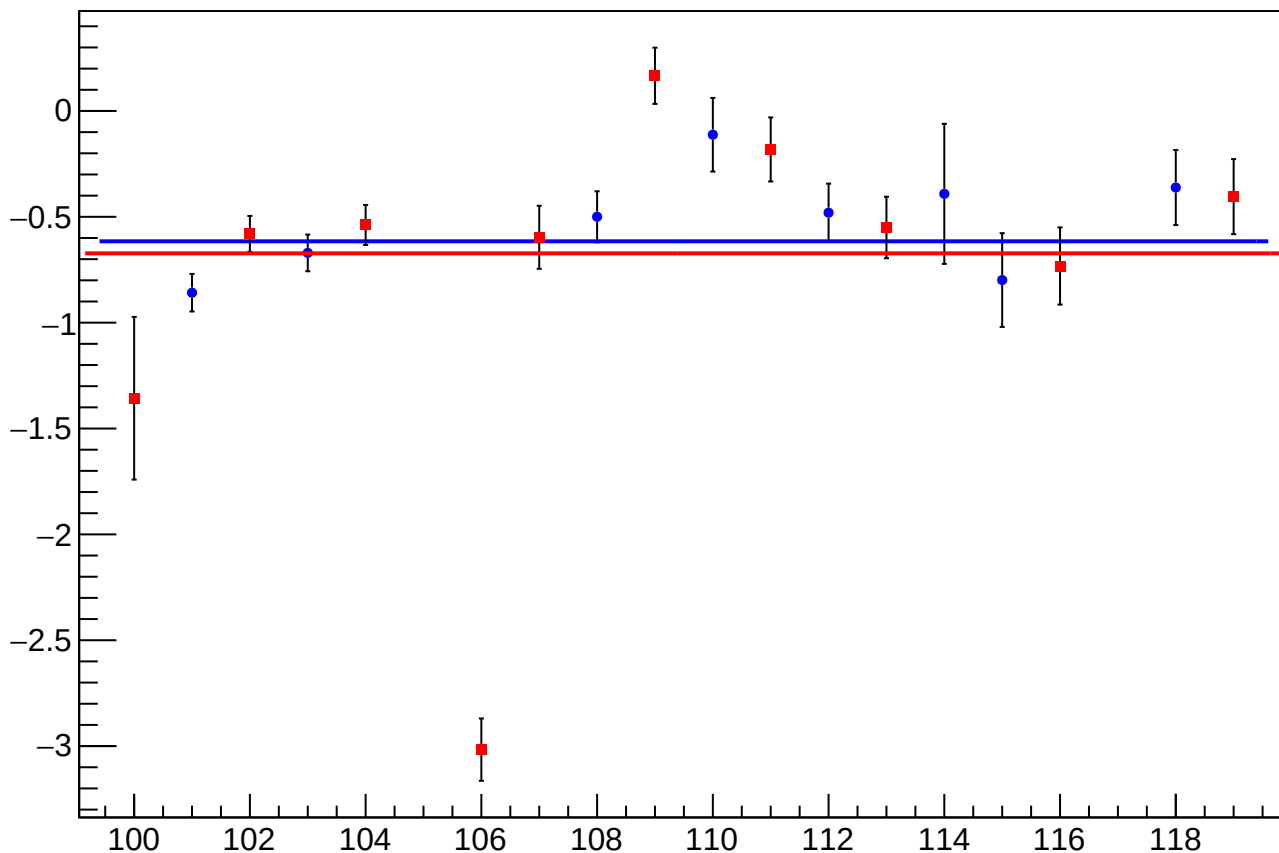
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-10.613 \pm 0.606$   $\chi^2/\text{NDF}$ : 589.4/17

- 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:  $-0.616 \pm 0.046$   $\chi^2/\text{NDF}$ : 21.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.673 \pm 0.042$   $\chi^2/\text{NDF}$ : 313.6/9

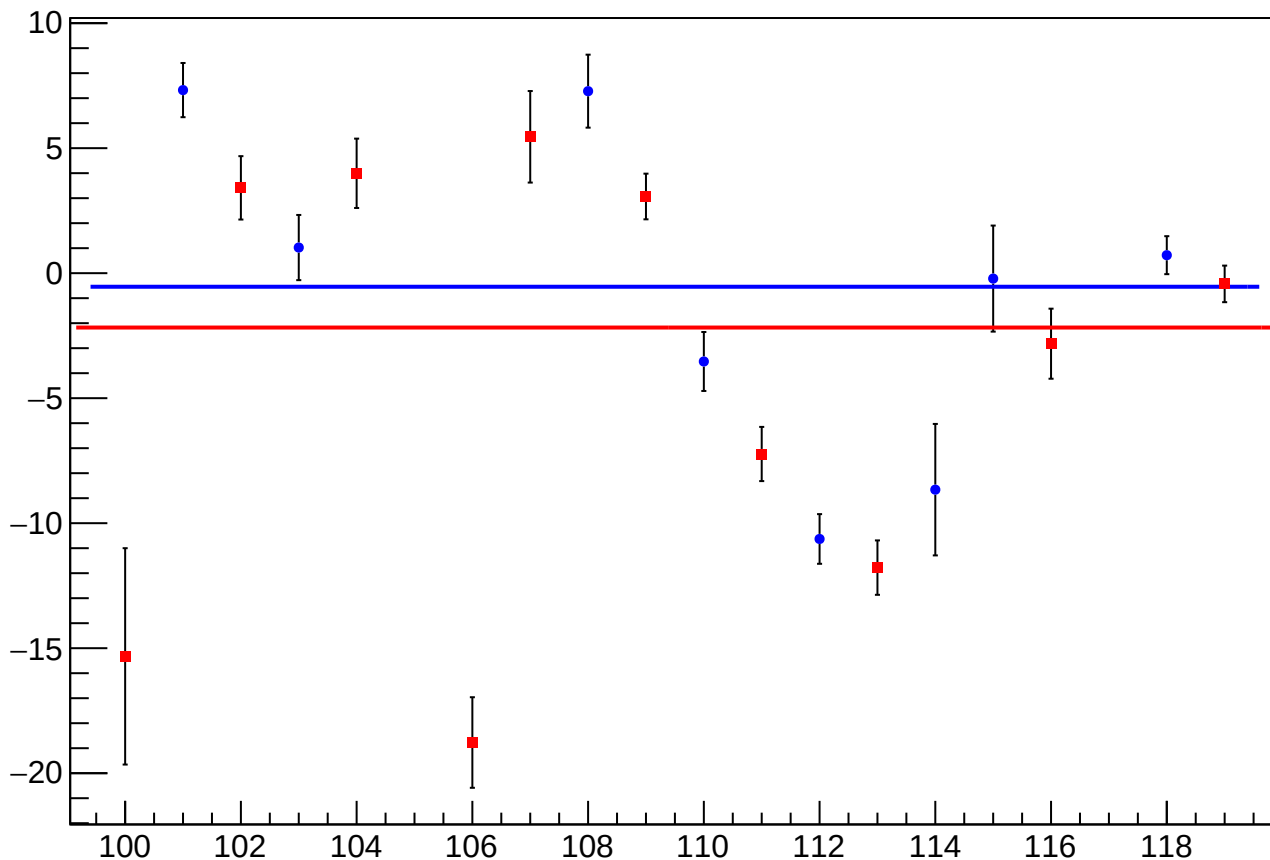
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.646 \pm 0.031$   $\chi^2/\text{NDF}$ : 335.8/17

- 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: -0.543+/-0.417  $\chi^2/\text{NDF}$ : 204.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.174+/-0.376  $\chi^2/\text{NDF}$ : 288.3/9

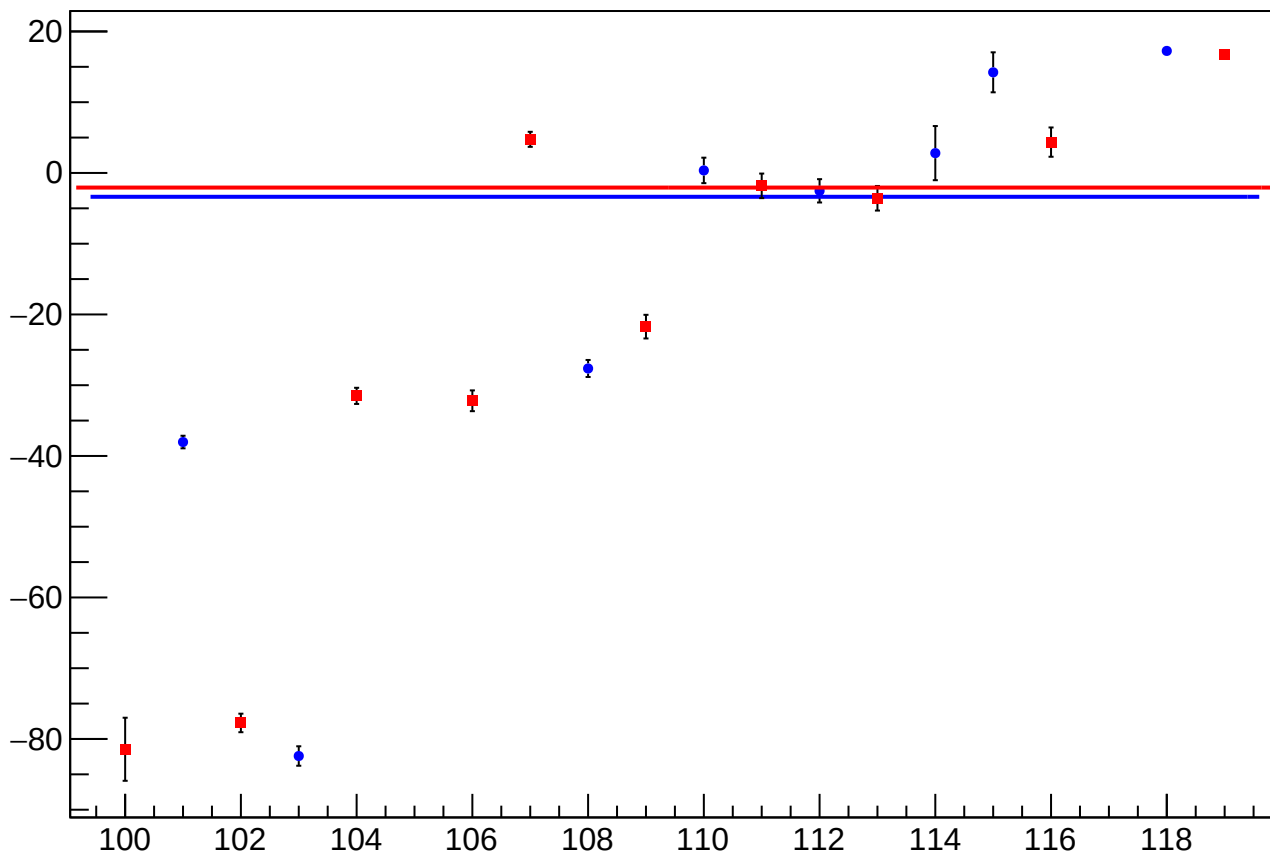
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.443+/-0.279  $\chi^2/\text{NDF}$ : 501.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-3.370 \pm 0.351$   $\chi^2/\text{NDF}$ : 7297.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.066 \pm 0.343$   $\chi^2/\text{NDF}$ : 6523.4/9

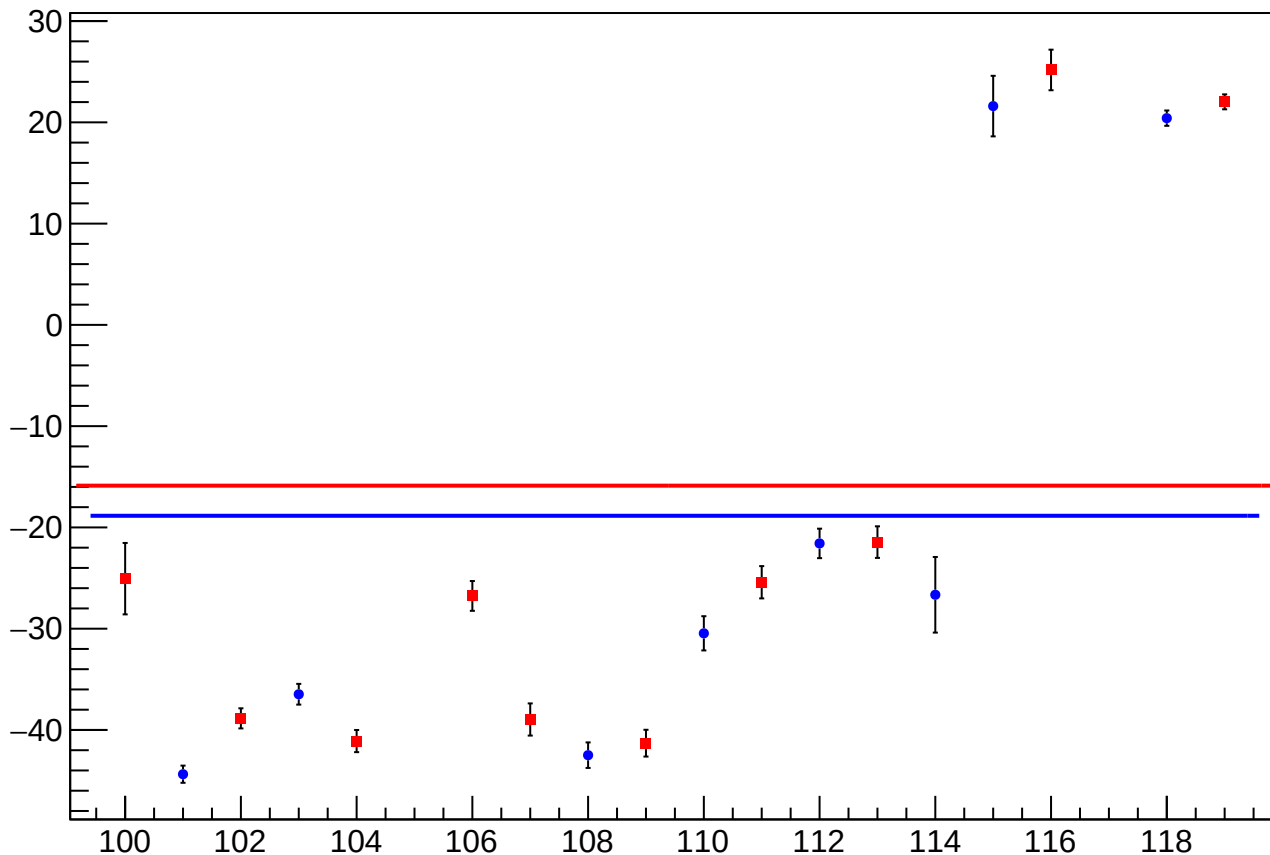
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.702 \pm 0.245$   $\chi^2/\text{NDF}$ : 13828.0/17

- 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: -18.849 $\pm$ 0.418  $\chi^2$ /NDF: 4482.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -15.876 $\pm$ 0.400  $\chi^2$ /NDF: 4817.1/9

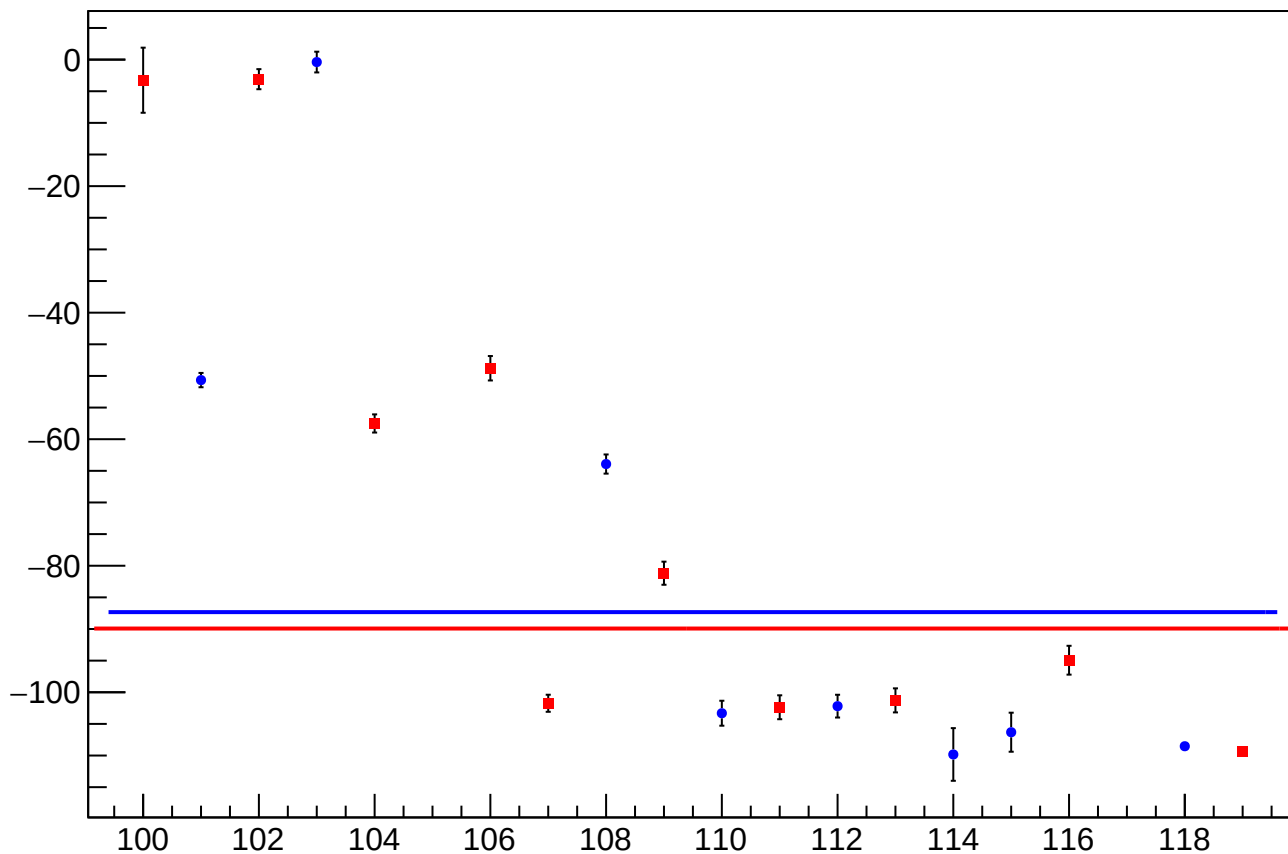
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.297 $\pm$ 0.289  $\chi^2$ /NDF: 9326.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-87.332 \pm 0.442$   $\chi^2/\text{NDF}$ : 5562.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-89.926 \pm 0.426$   $\chi^2/\text{NDF}$ : 5458.2/9

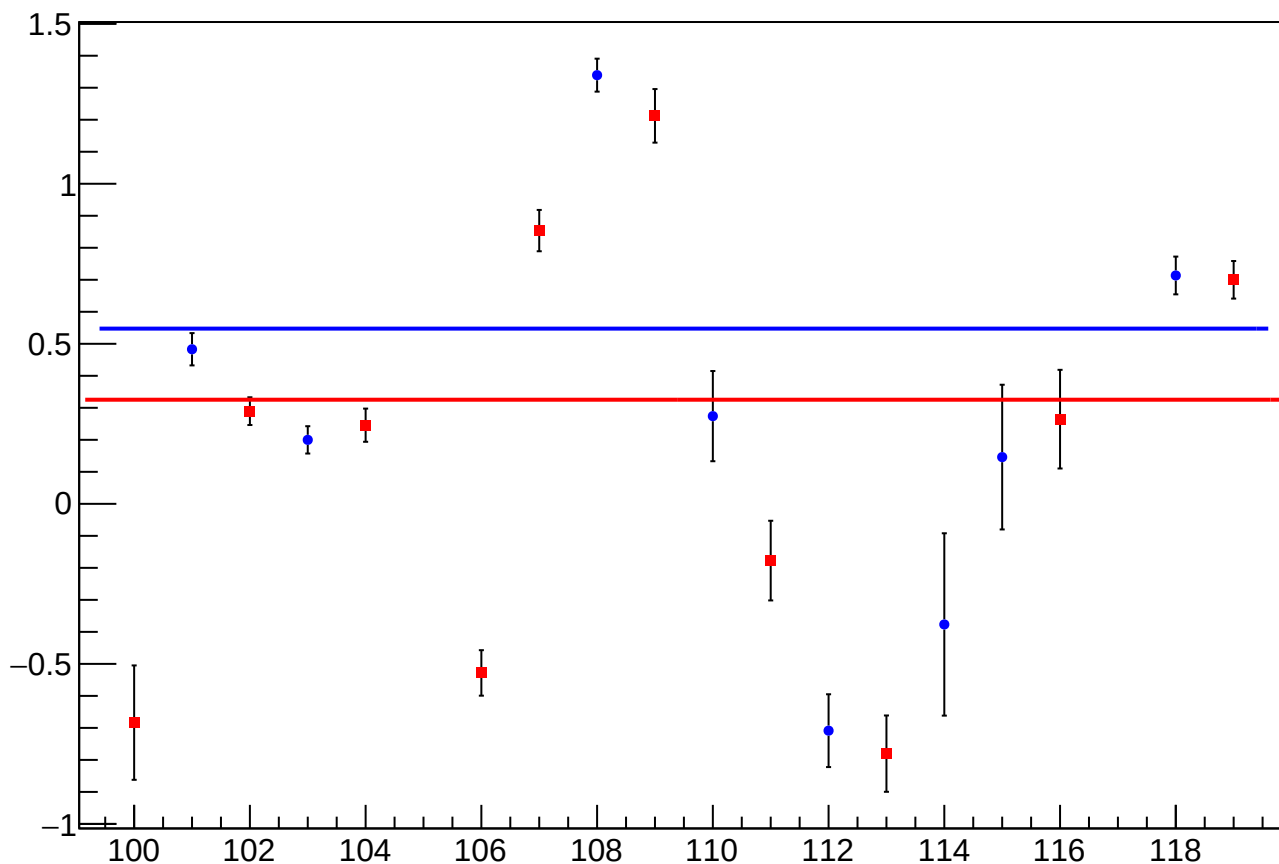
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-88.678 \pm 0.307$   $\chi^2/\text{NDF}$ : 11038.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.547 $\pm$ 0.024  $\chi^2$ /NDF: 451.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.325 $\pm$ 0.022  $\chi^2$ /NDF: 501.7/9

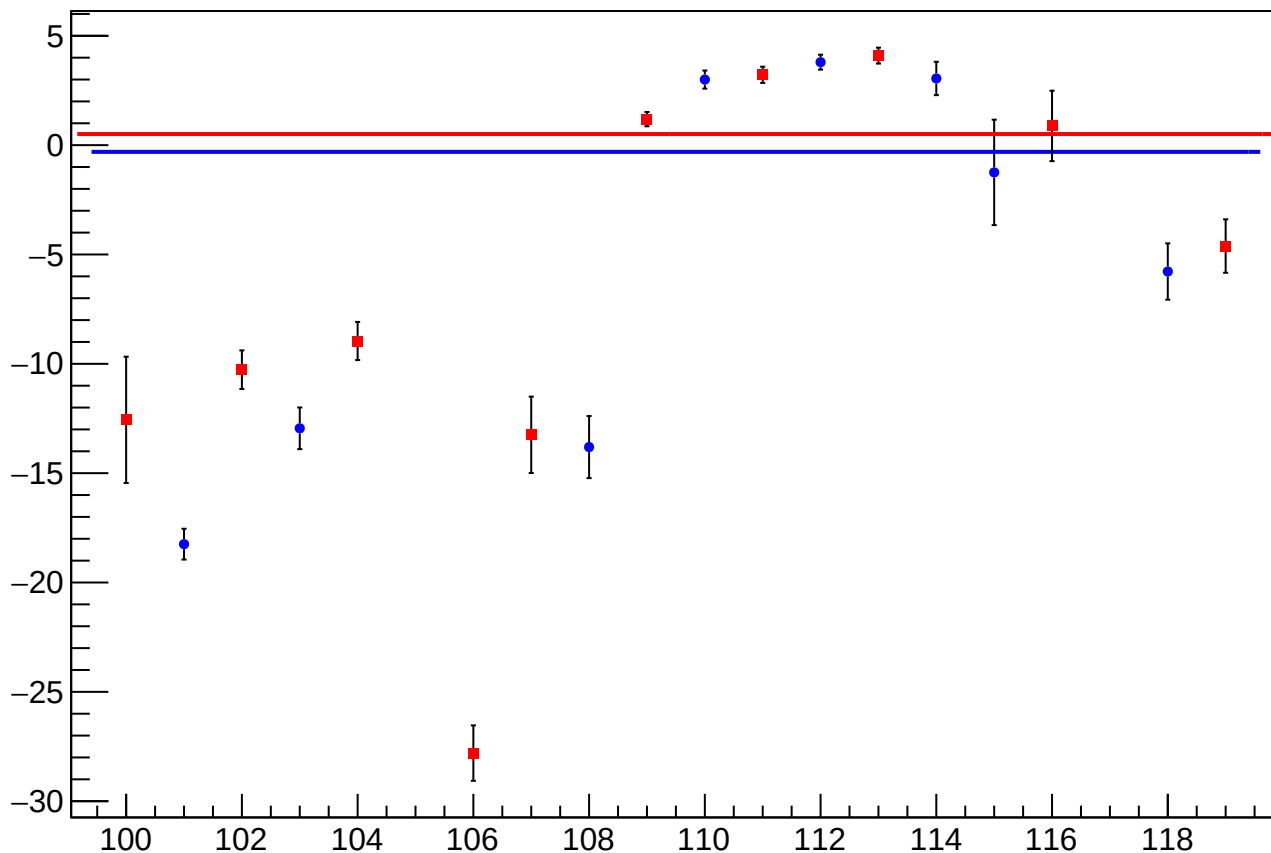
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.430 $\pm$ 0.016  $\chi^2$ /NDF: 999.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -0.306+/-0.221  $\chi^2/\text{NDF}$ : 1162.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.509+/-0.186  $\chi^2/\text{NDF}$ : 1022.0/9

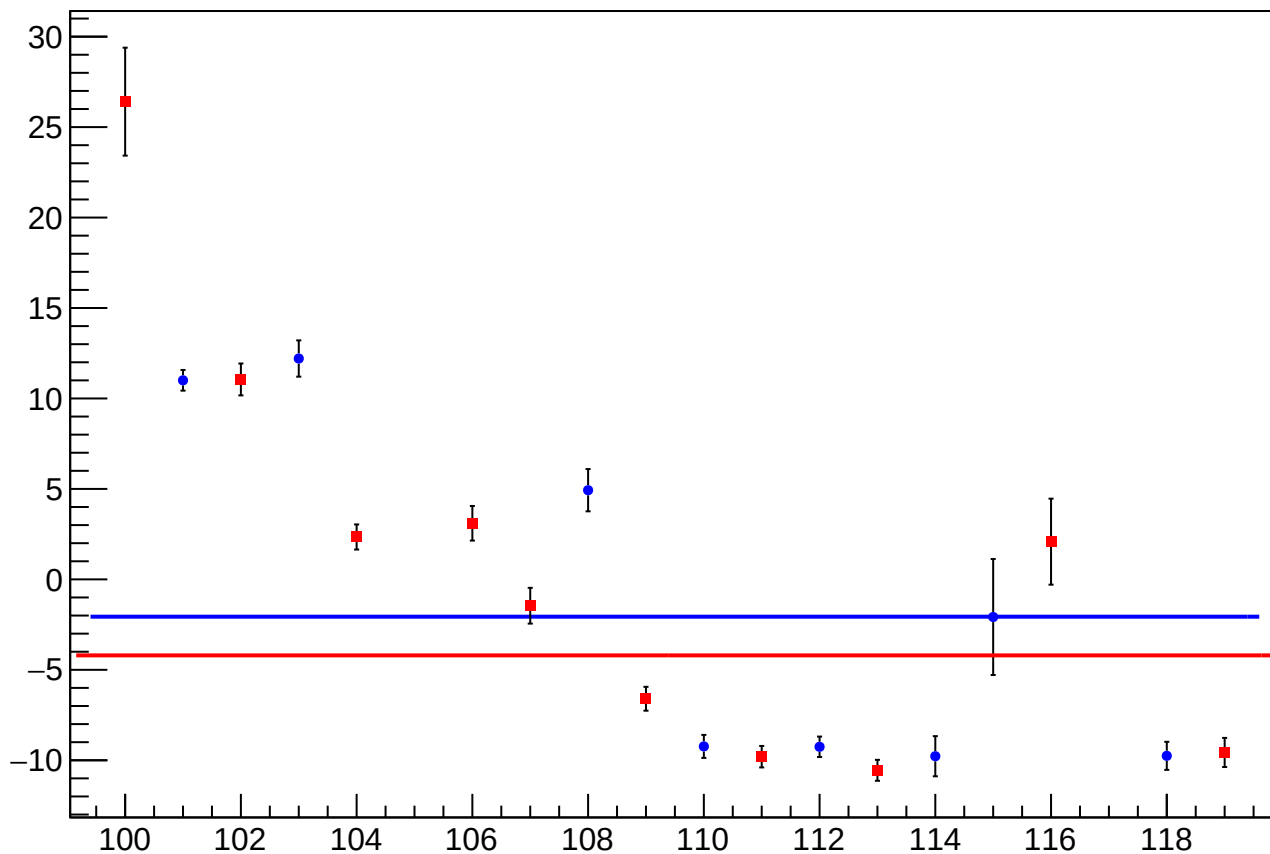
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.170+/-0.142  $\chi^2/\text{NDF}$ : 2192.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-2.063 \pm 0.278$   $\chi^2/\text{NDF}$ : 1196.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.201 \pm 0.255$   $\chi^2/\text{NDF}$ : 834.3/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

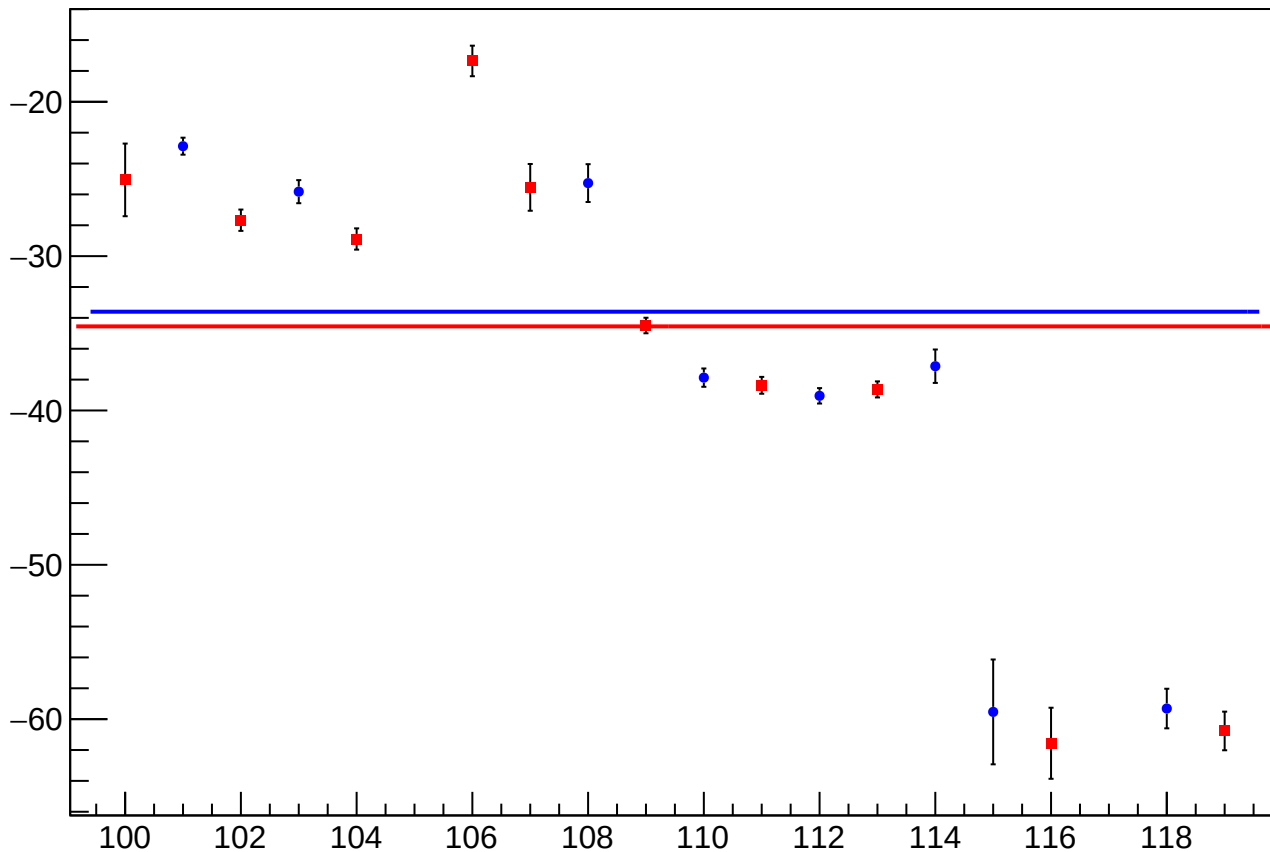
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-3.225 \pm 0.188$   $\chi^2/\text{NDF}$ : 2062.5/17

- 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: -33.600 $\pm$ 0.266  $\chi^2$ /NDF: 1176.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -34.552 $\pm$ 0.238  $\chi^2$ /NDF: 1207.0/9

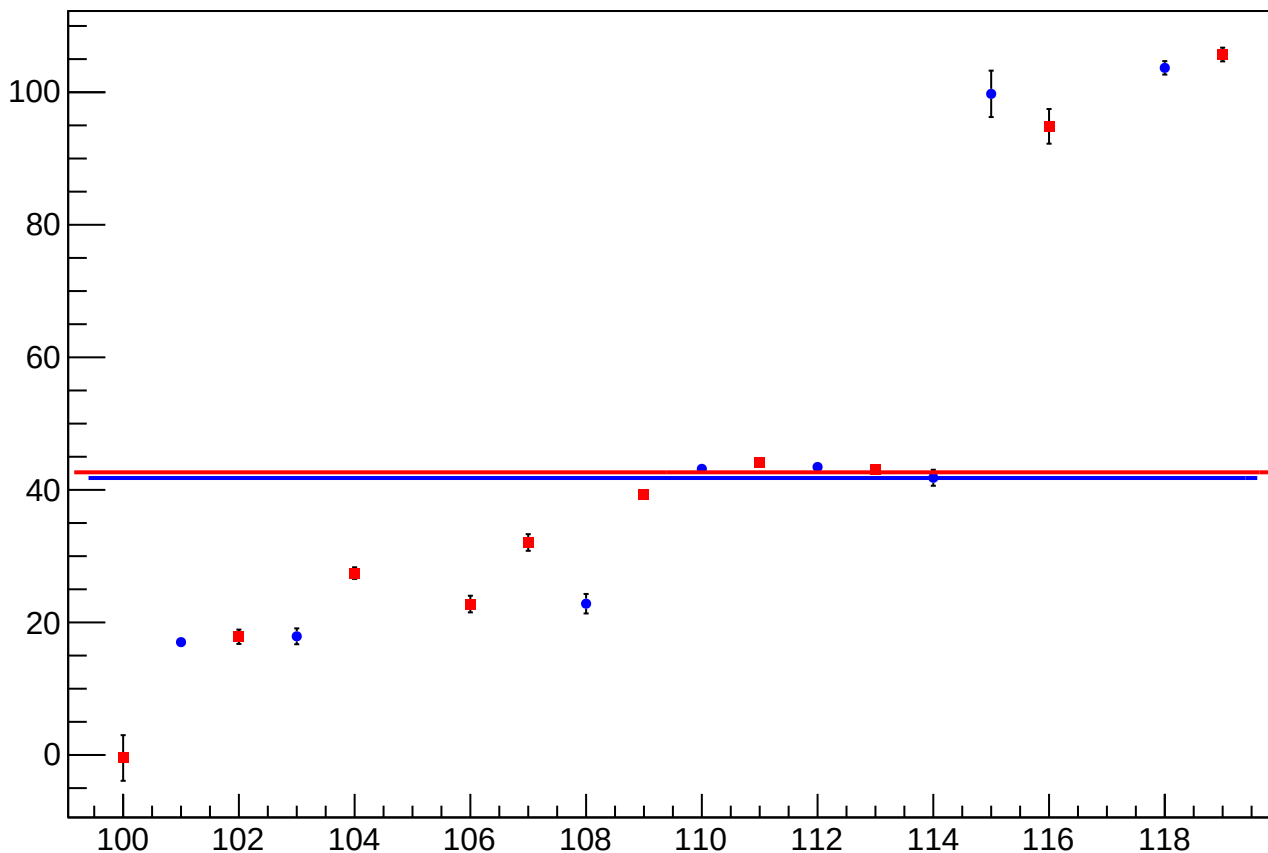
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -34.129 $\pm$ 0.177  $\chi^2$ /NDF: 2390.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 41.789+/-0.325  $\chi^2/\text{NDF}$ : 5724.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 42.651+/-0.294  $\chi^2/\text{NDF}$ : 5452.4/9

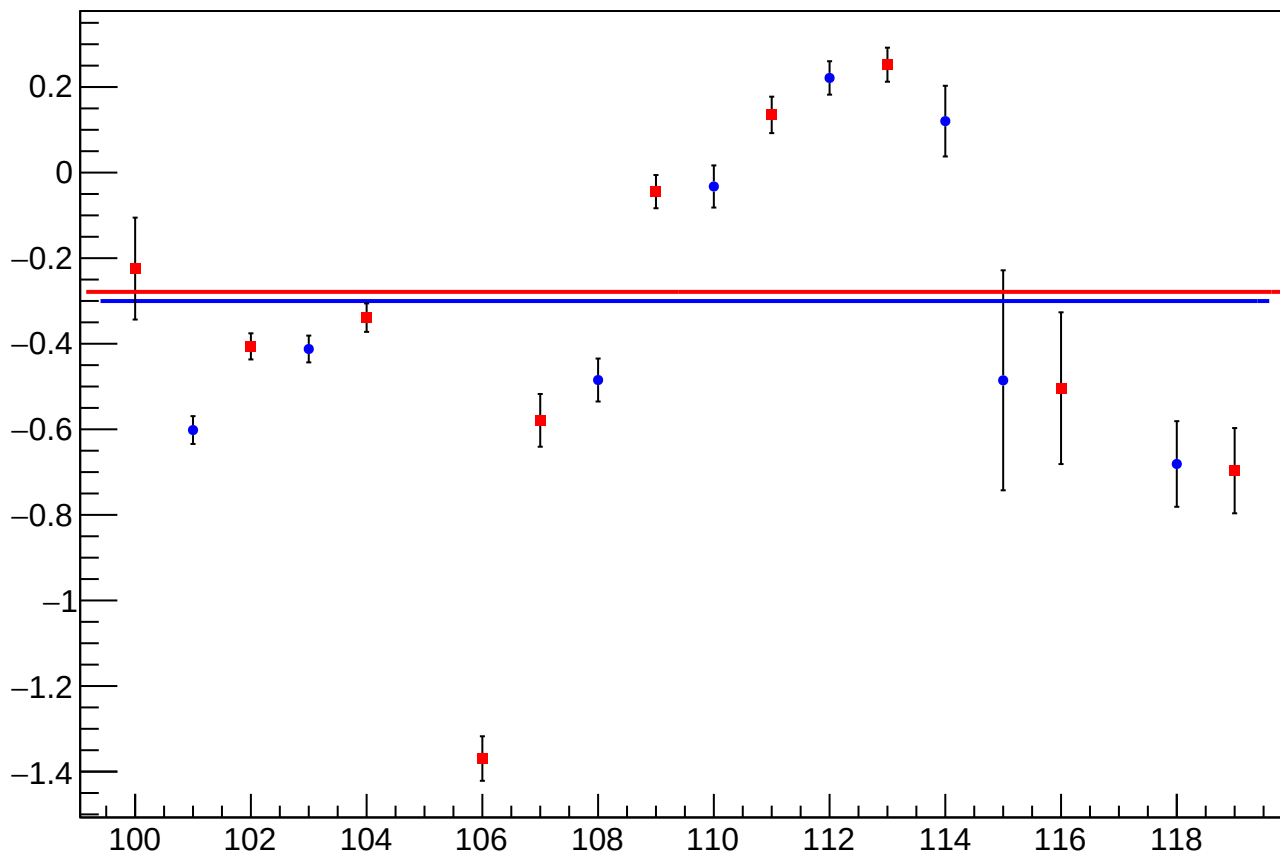
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 42.263+/-0.218  $\chi^2/\text{NDF}$ : 11180.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.300 \pm 0.016$   $\chi^2/\text{NDF}$ : 361.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.279 \pm 0.015$   $\chi^2/\text{NDF}$ : 812.0/9

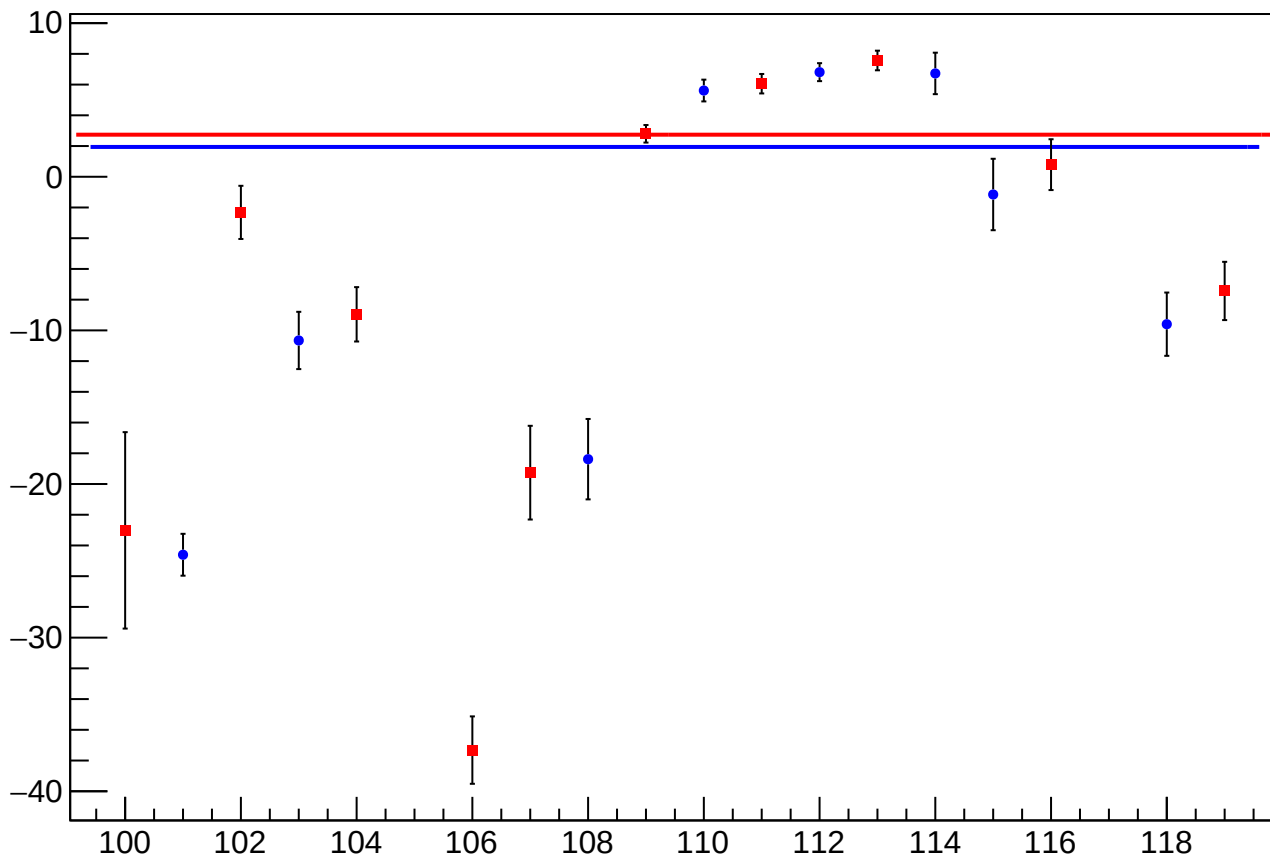
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.288 \pm 0.011$   $\chi^2/\text{NDF}$ : 1173.9/17

- 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: 1.941+/-0.382  $\chi^2/\text{NDF}$ : 627.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.739+/-0.322  $\chi^2/\text{NDF}$ : 568.7/9

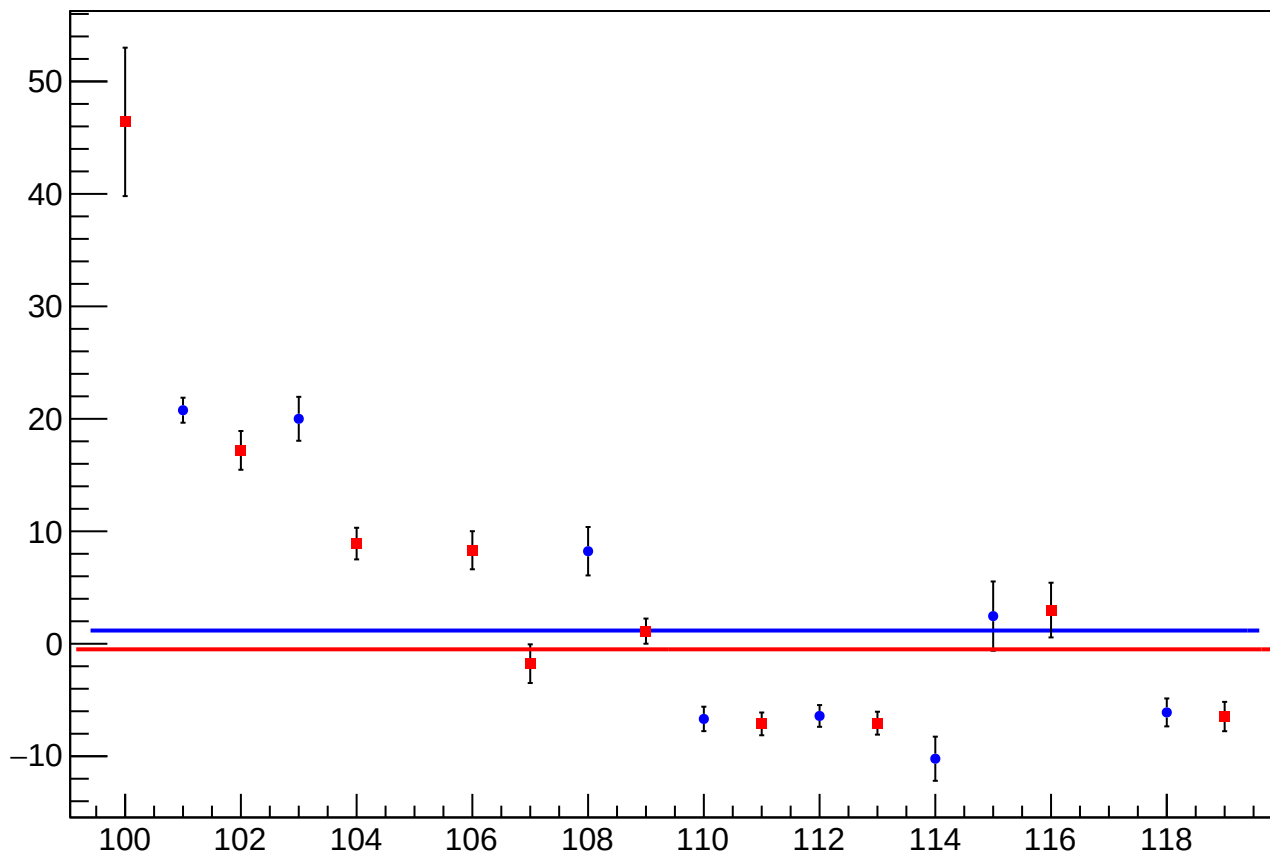
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.407+/-0.246  $\chi^2/\text{NDF}$ : 1198.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 1.177 $\pm$ 0.487  $\chi^2$ /NDF: 596.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.495 $\pm$ 0.445  $\chi^2$ /NDF: 337.8/9

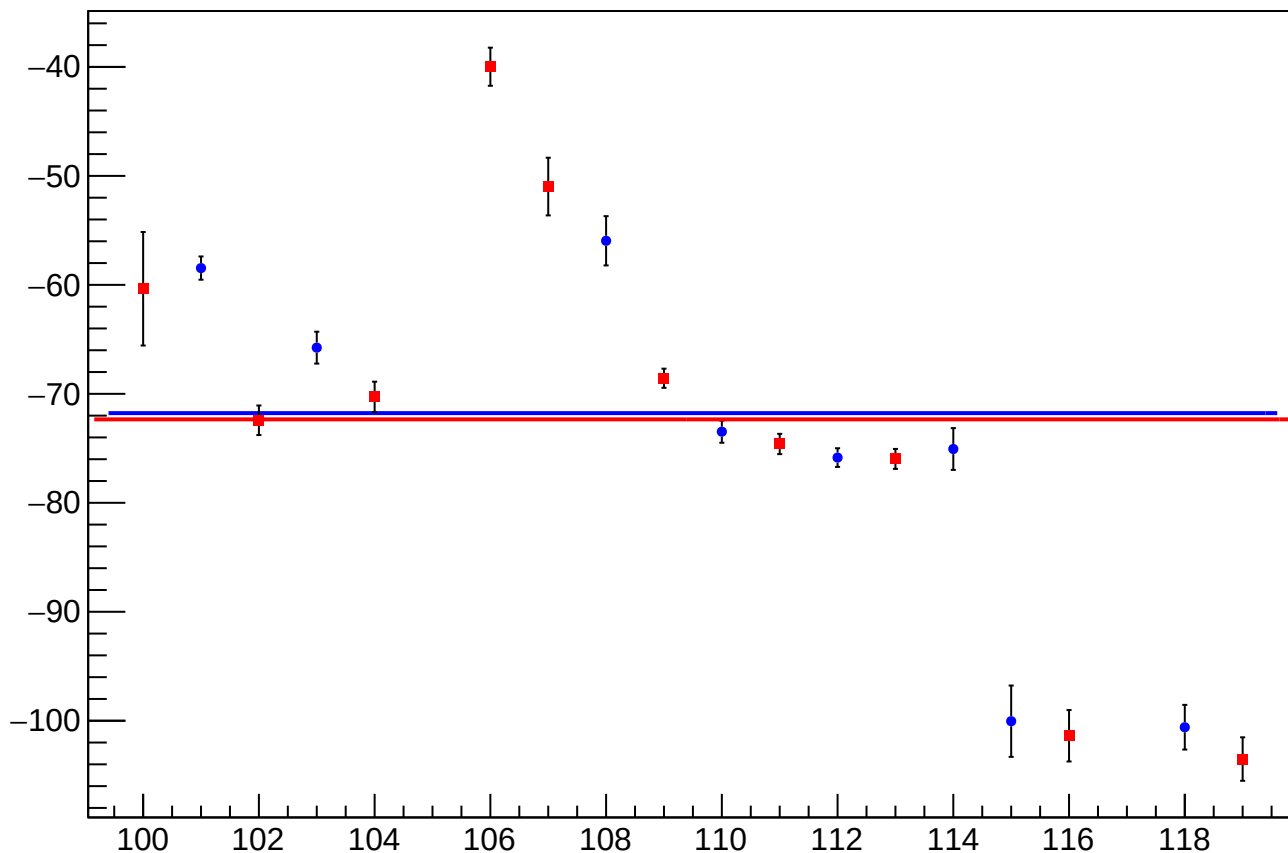
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.266 $\pm$ 0.328  $\chi^2$ /NDF: 940.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -71.770 $\pm$ 0.472  $\chi^2$ /NDF: 522.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -72.344 $\pm$ 0.421  $\chi^2$ /NDF: 851.1/9

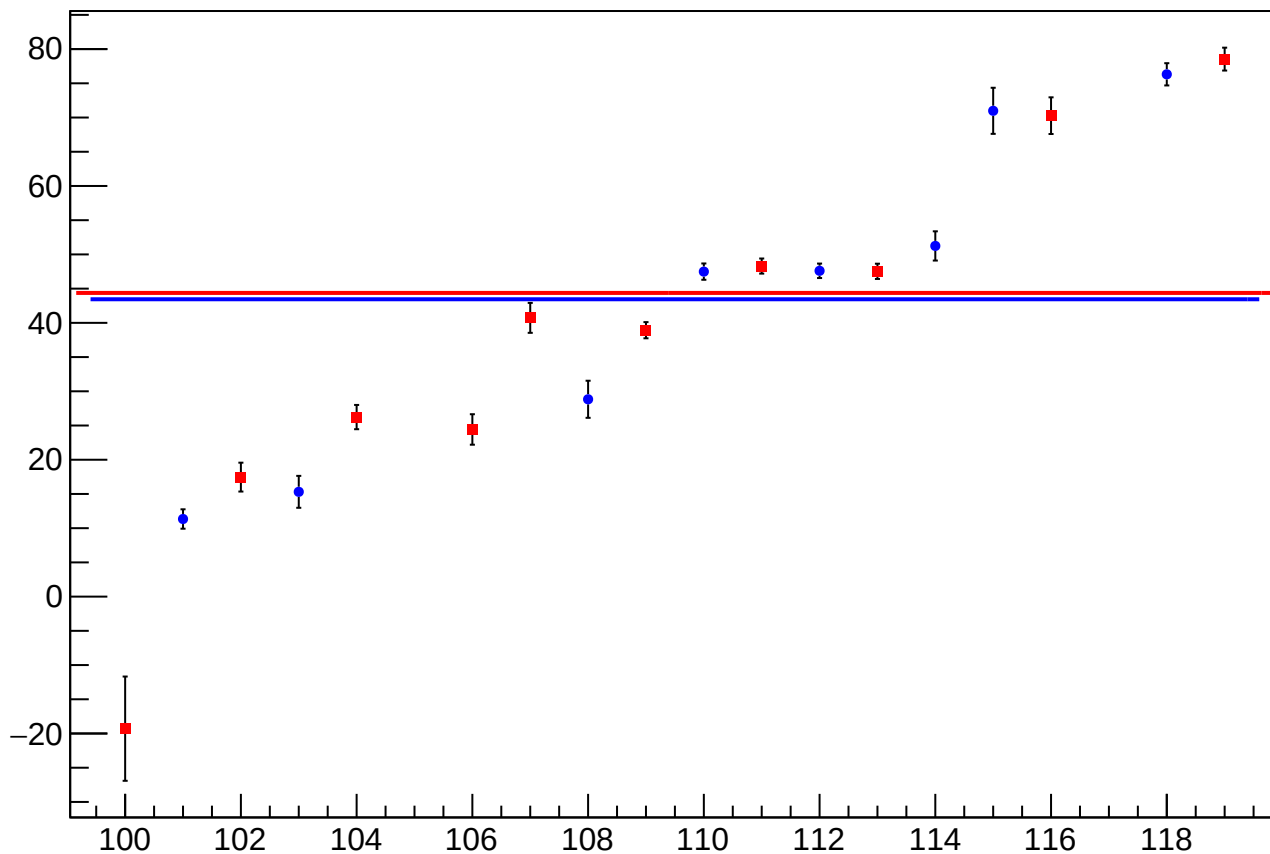
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -72.090 $\pm$ 0.314  $\chi^2$ /NDF: 1374.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 43.446 $\pm$ 0.568  $\chi^2$ /NDF: 1204.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 44.373 $\pm$ 0.512  $\chi^2$ /NDF: 973.5/9

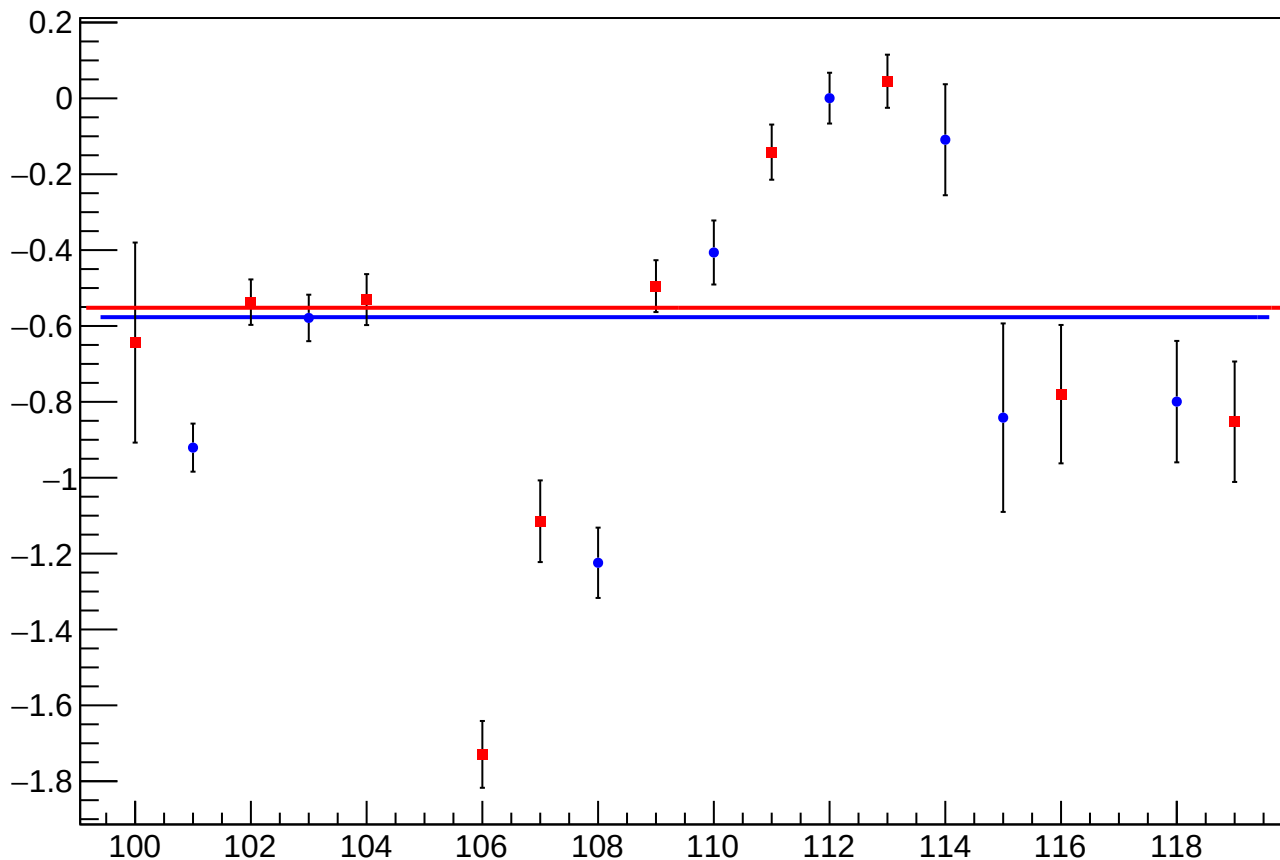
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 43.957 $\pm$ 0.380  $\chi^2$ /NDF: 2179.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.577 \pm 0.030$   $\chi^2/\text{NDF}: 170.0/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.552 \pm 0.027$   $\chi^2/\text{NDF}: 316.6/9$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

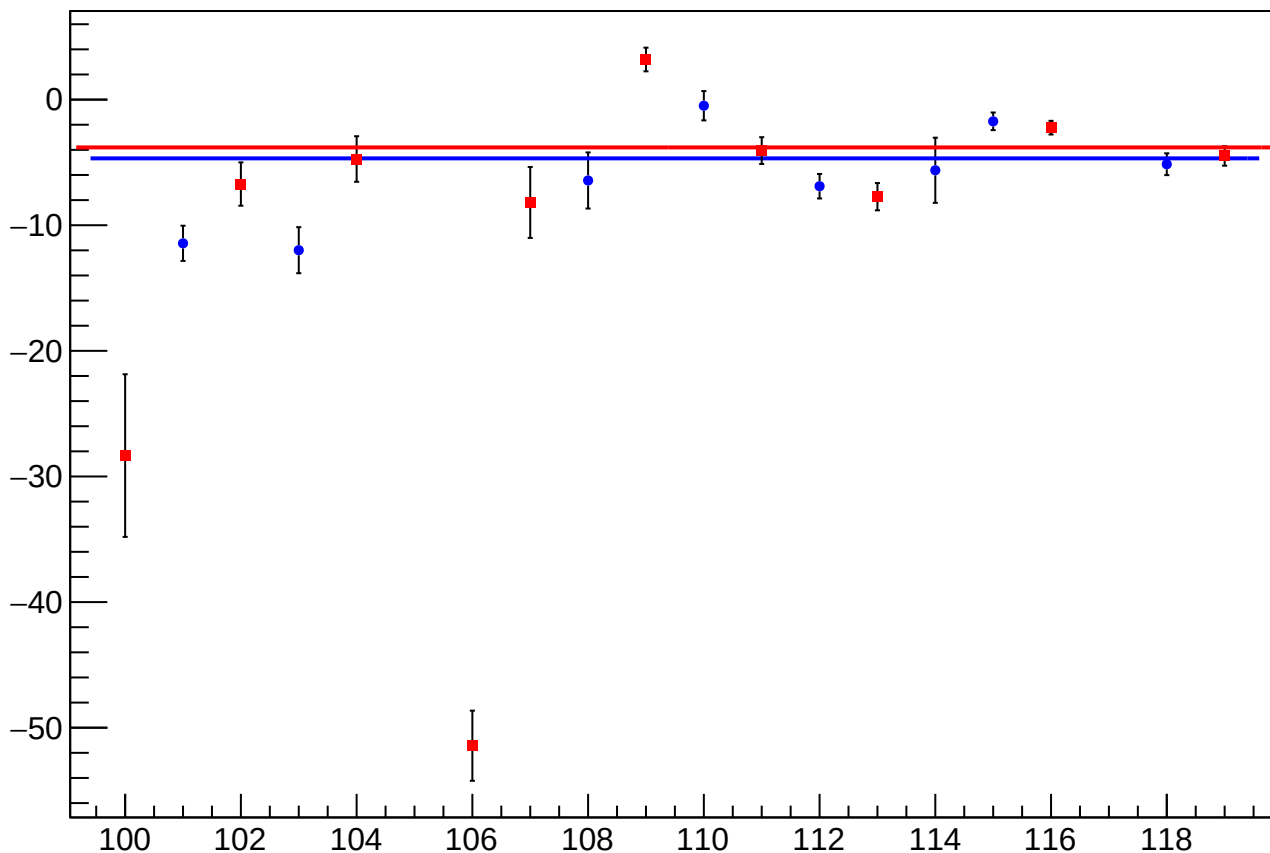
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.563 \pm 0.020$   $\chi^2/\text{NDF}: 487.0/17$

- 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: -4.678+/-0.398  $\chi^2$ /NDF: 76.0/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.806+/-0.337  $\chi^2$ /NDF: 388.3/9

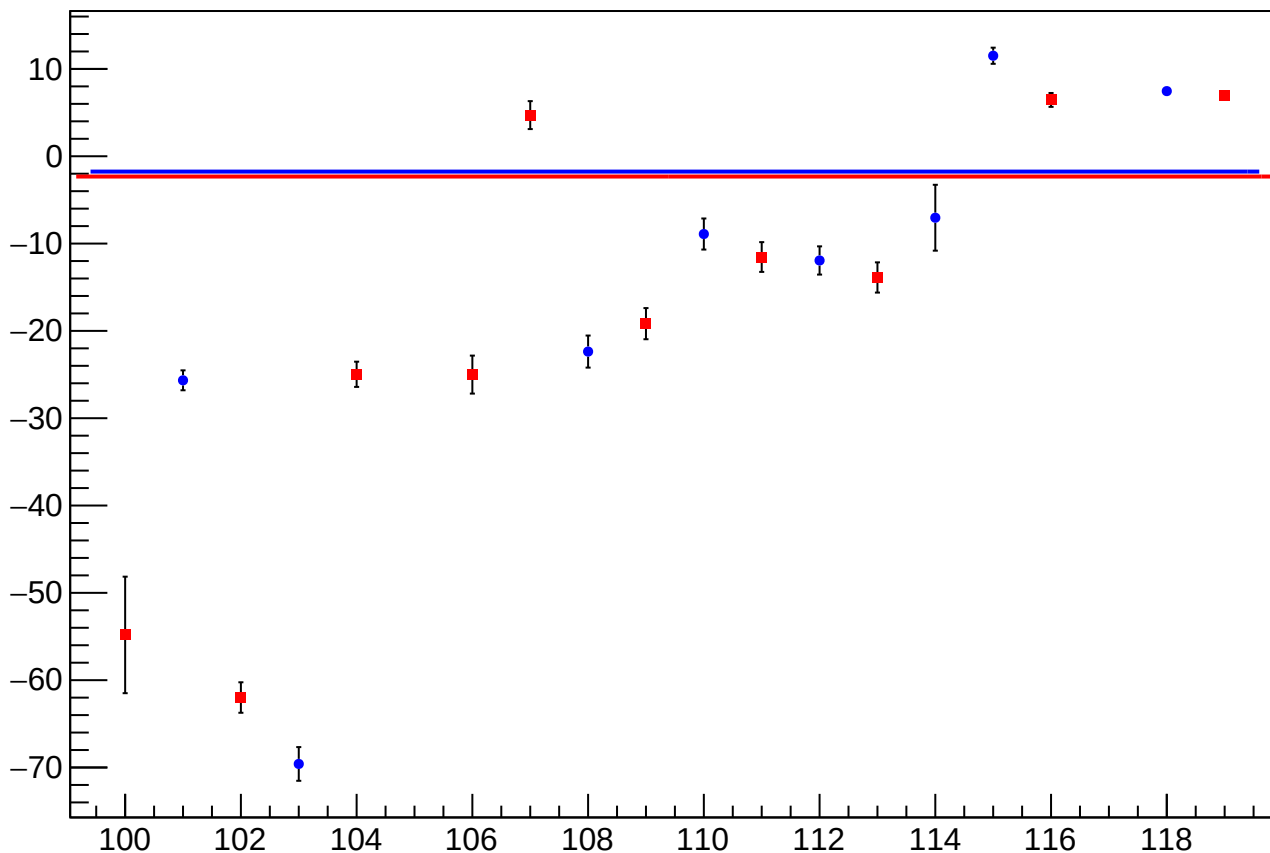
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -4.169+/-0.257  $\chi^2$ /NDF: 467.1/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -1.756+/-0.380  $\chi^2/\text{NDF}$ : 2374.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.323+/-0.366  $\chi^2/\text{NDF}$ : 2188.5/9

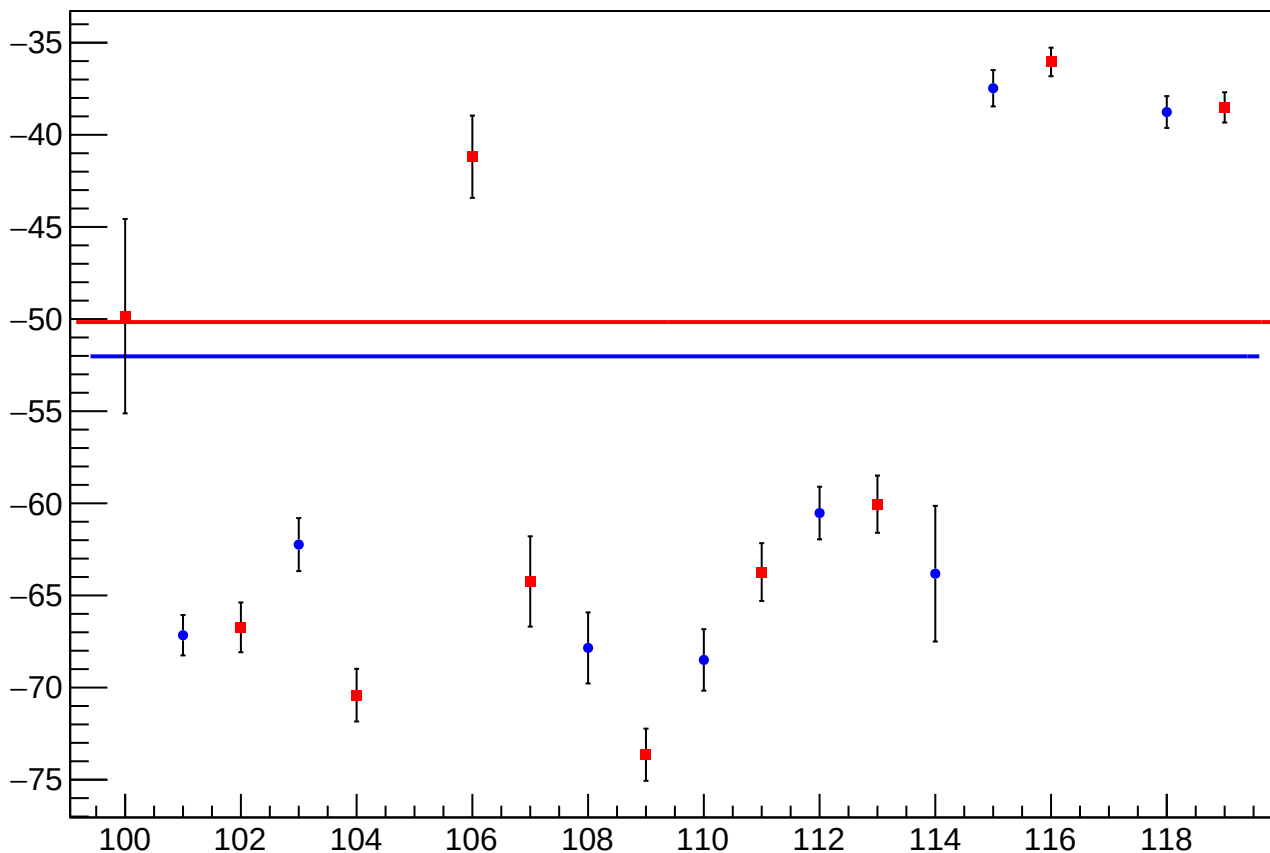
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.050+/-0.264  $\chi^2/\text{NDF}$ : 4563.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -52.024 $\pm$ 0.453  $\chi^2$ /NDF: 905.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -50.164 $\pm$ 0.411  $\chi^2$ /NDF: 1323.9/9

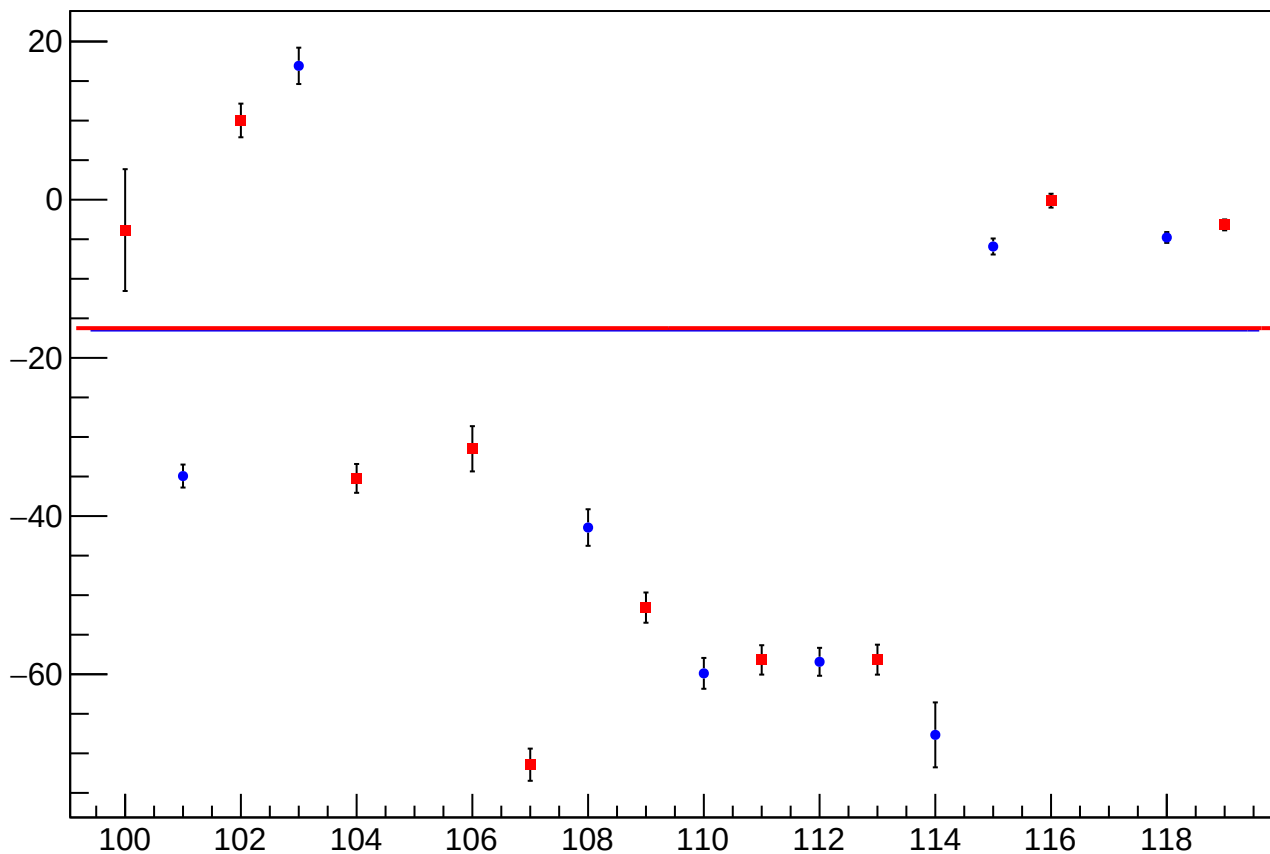
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -51.005 $\pm$ 0.304  $\chi^2$ /NDF: 2238.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-16.418 \pm 0.466$   $\chi^2/\text{NDF}$ : 2105.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-16.242 \pm 0.441$   $\chi^2/\text{NDF}$ : 3065.7/9

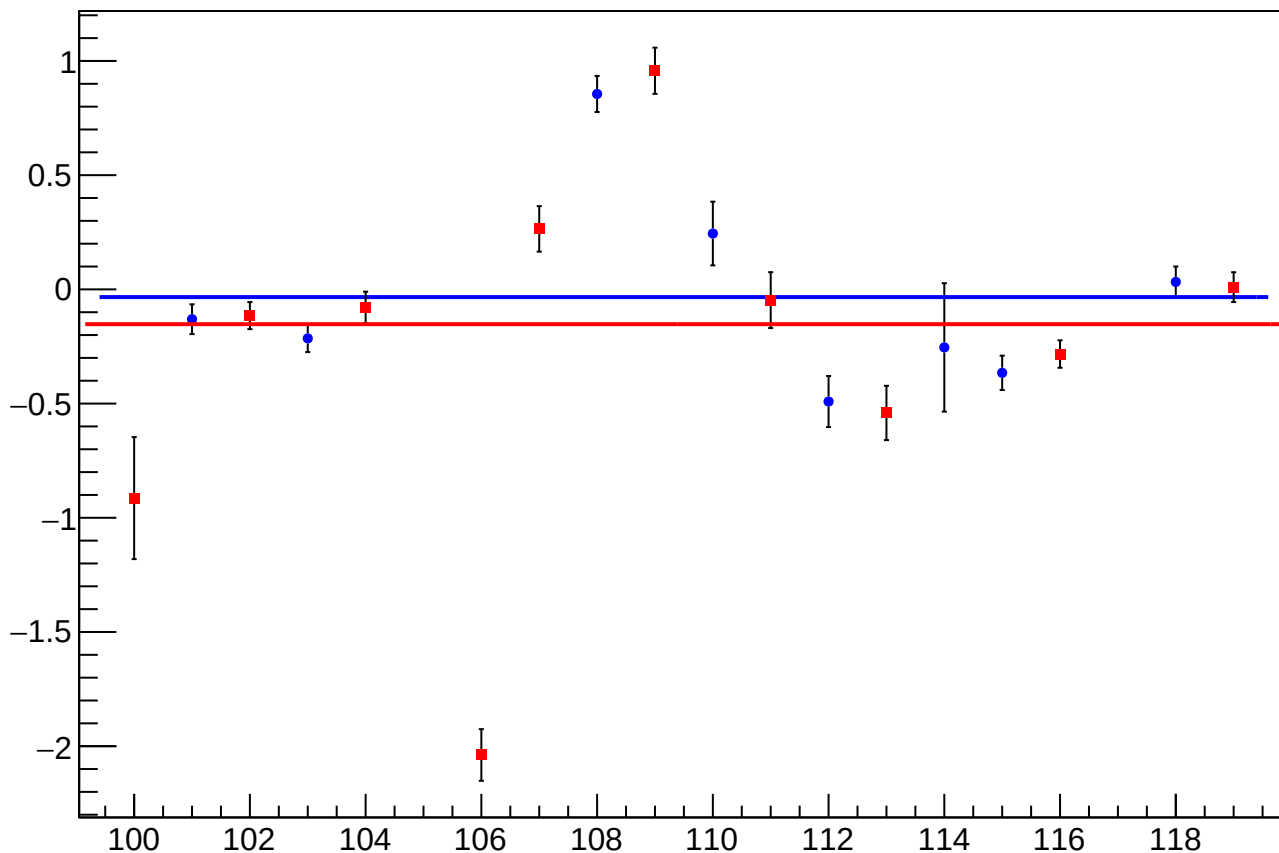
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-16.325 \pm 0.320$   $\chi^2/\text{NDF}$ : 5171.4/17

- 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: -0.034 $\pm$ 0.029  $\chi^2$ /NDF: 179.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.152 $\pm$ 0.026  $\chi^2$ /NDF: 448.1/9

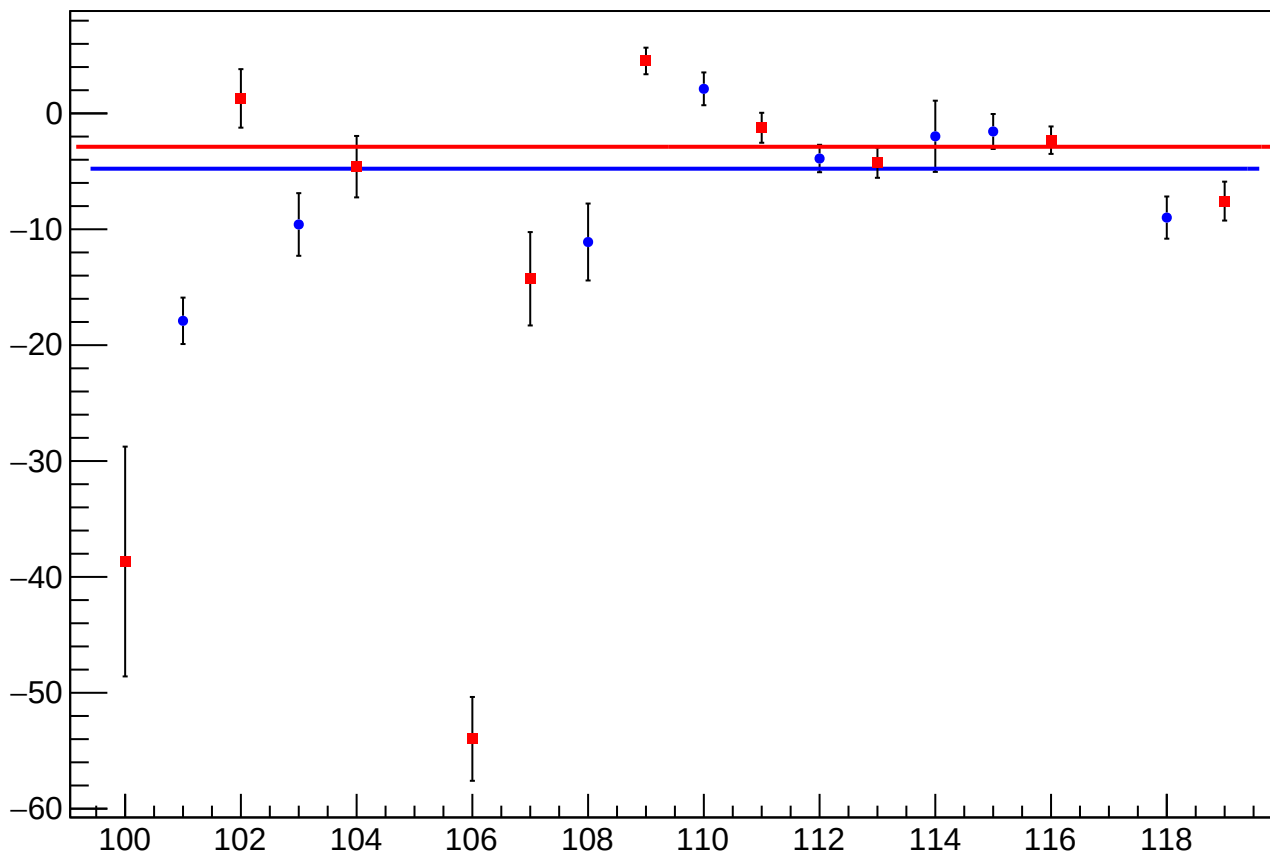
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.098 $\pm$ 0.019  $\chi^2$ /NDF: 636.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -4.773+/-0.628  $\chi^2/\text{NDF}$ : 84.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.880+/-0.538  $\chi^2/\text{NDF}$ : 276.2/9

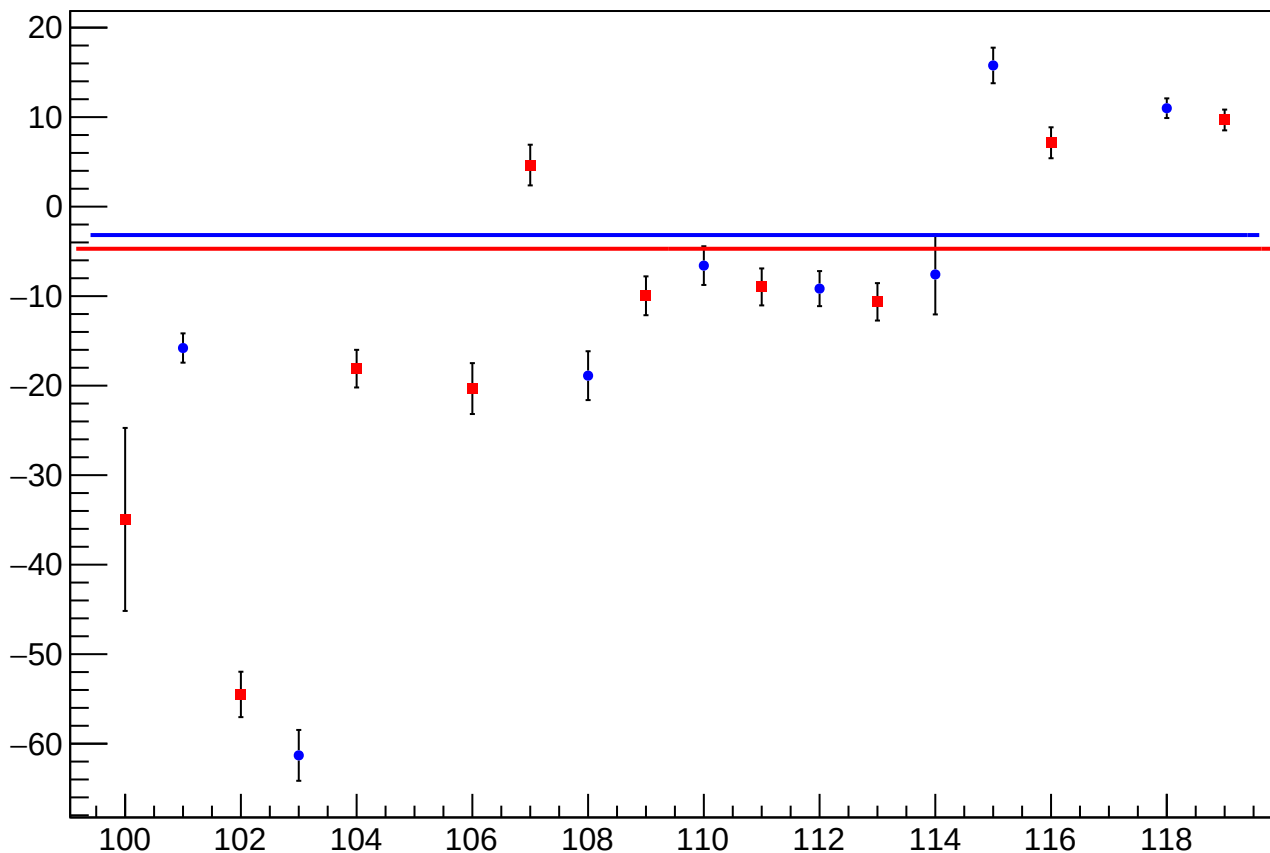
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.682+/-0.408  $\chi^2/\text{NDF}$ : 366.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -3.175+/-0.668  $\chi^2/\text{NDF}$ : 781.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.707+/-0.637  $\chi^2/\text{NDF}$ : 700.8/9

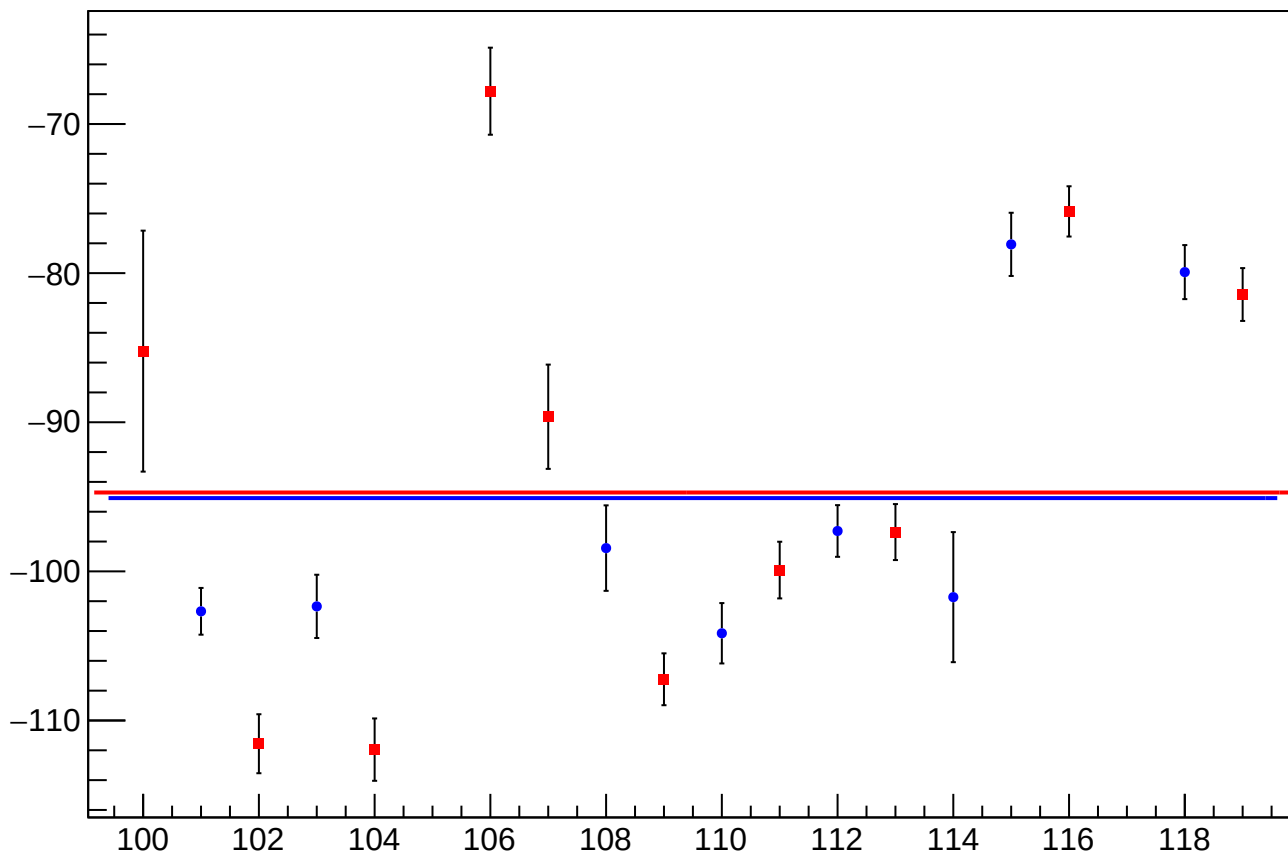
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.978+/-0.461  $\chi^2/\text{NDF}$ : 1485.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-95.087 \pm 0.724$   $\chi^2/\text{NDF}$ : 195.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-94.711 \pm 0.665$   $\chi^2/\text{NDF}$ : 471.7/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

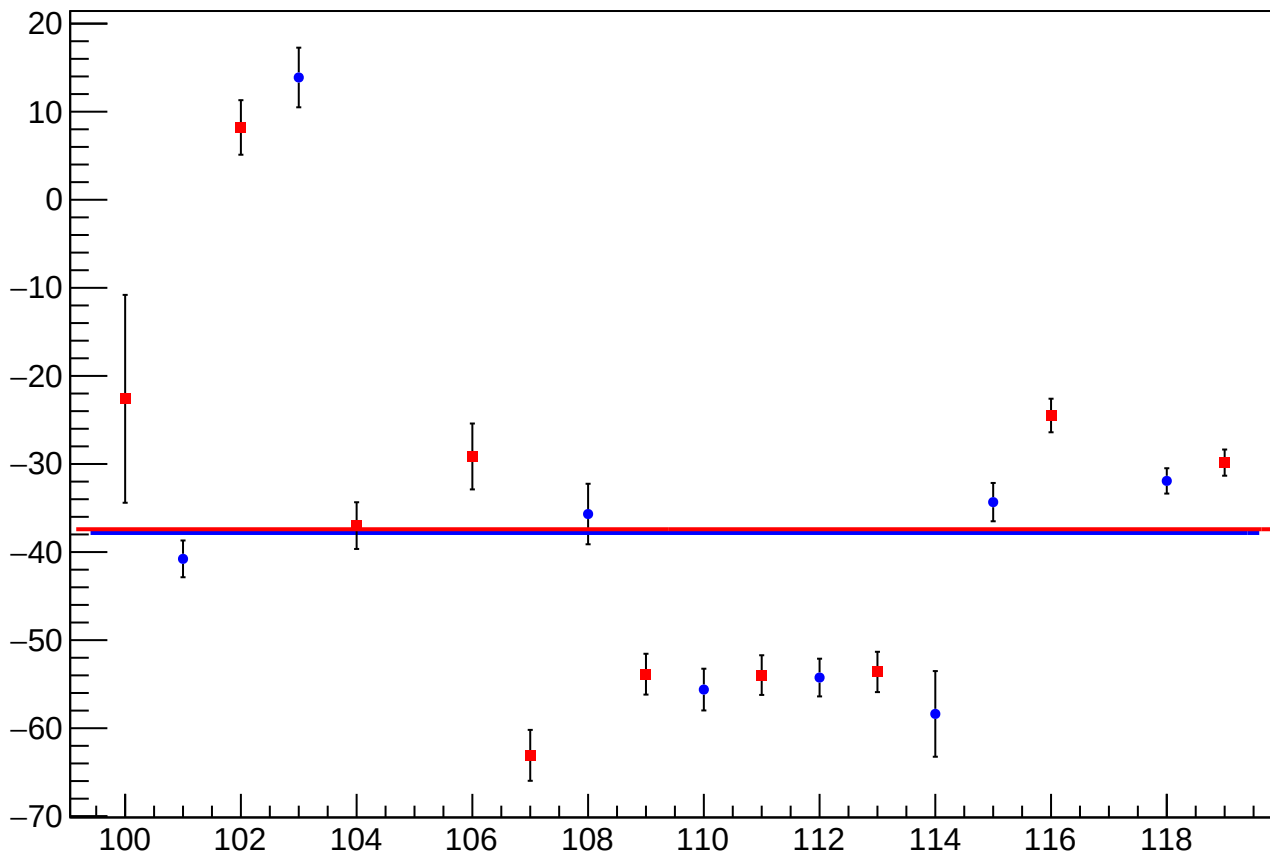
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-94.883 \pm 0.490$   $\chi^2/\text{NDF}$ : 666.8/17

- 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:  $-37.833 \pm 0.807$   $\chi^2/\text{NDF}$ : 388.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-37.409 \pm 0.757$   $\chi^2/\text{NDF}$ : 528.8/9

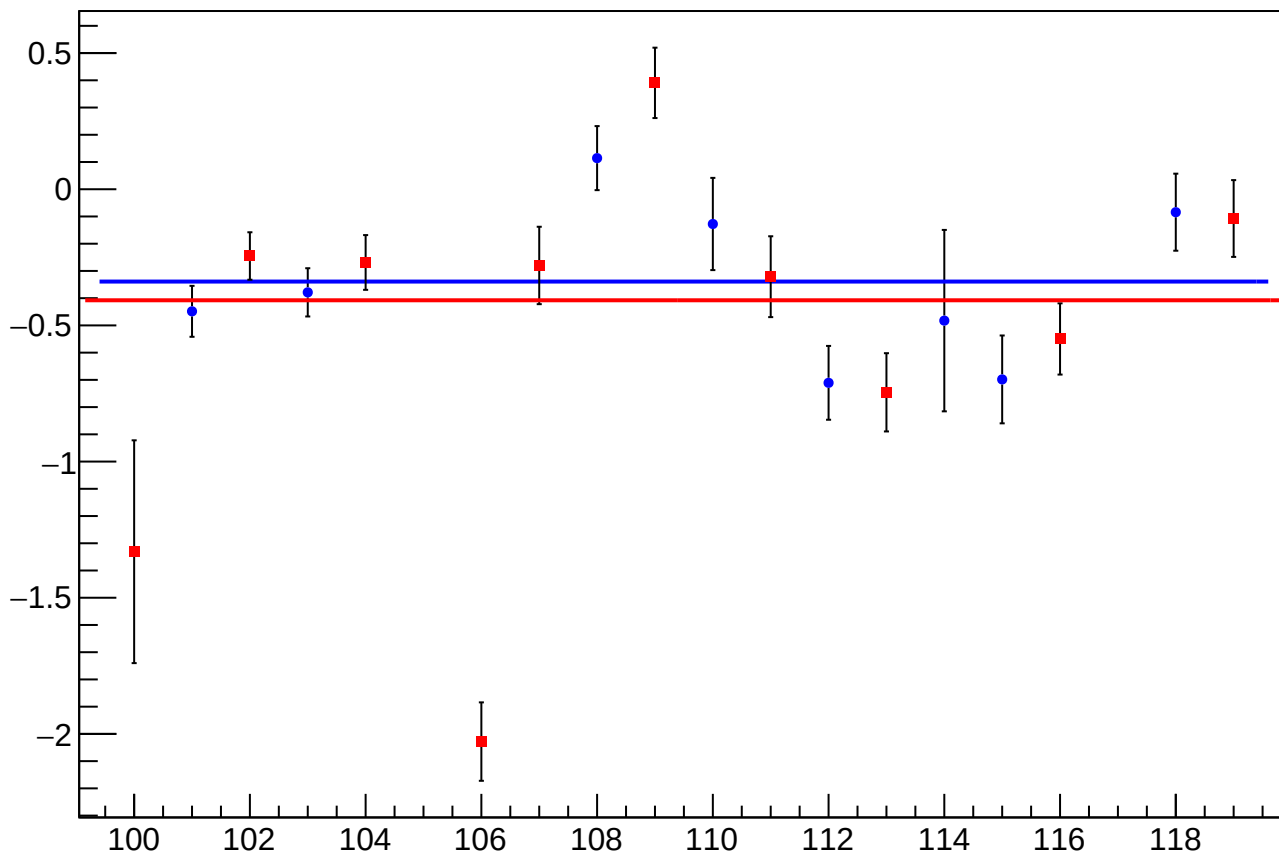
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-37.607 \pm 0.552$   $\chi^2/\text{NDF}$ : 917.2/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.339 \pm 0.045$   $\chi^2/\text{NDF}$ : 33.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.408 \pm 0.041$   $\chi^2/\text{NDF}$ : 187.7/9

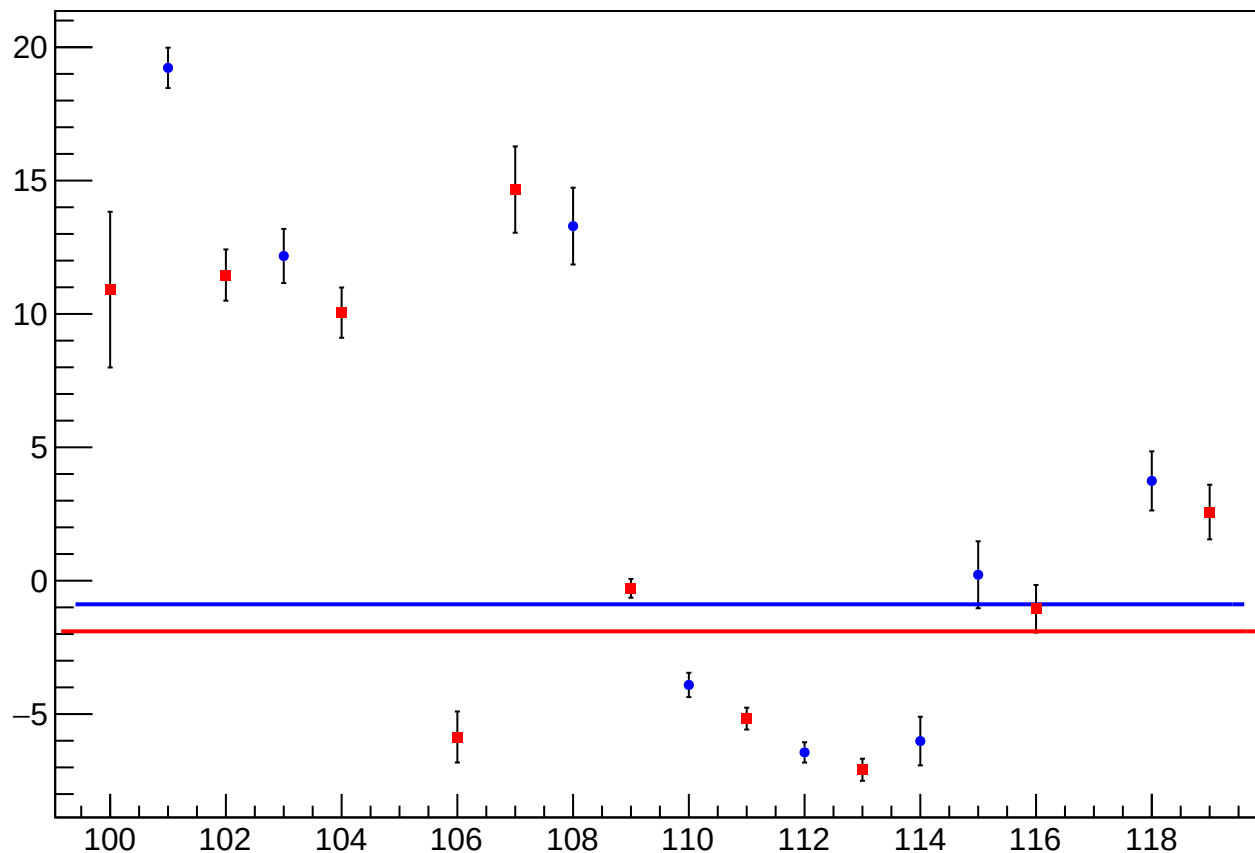
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.376 \pm 0.030$   $\chi^2/\text{NDF}$ : 222.9/17

- 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:  $-0.886 \pm 0.239$   $\chi^2/\text{NDF}$ : 1274.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.899 \pm 0.197$   $\chi^2/\text{NDF}$ : 757.1/9

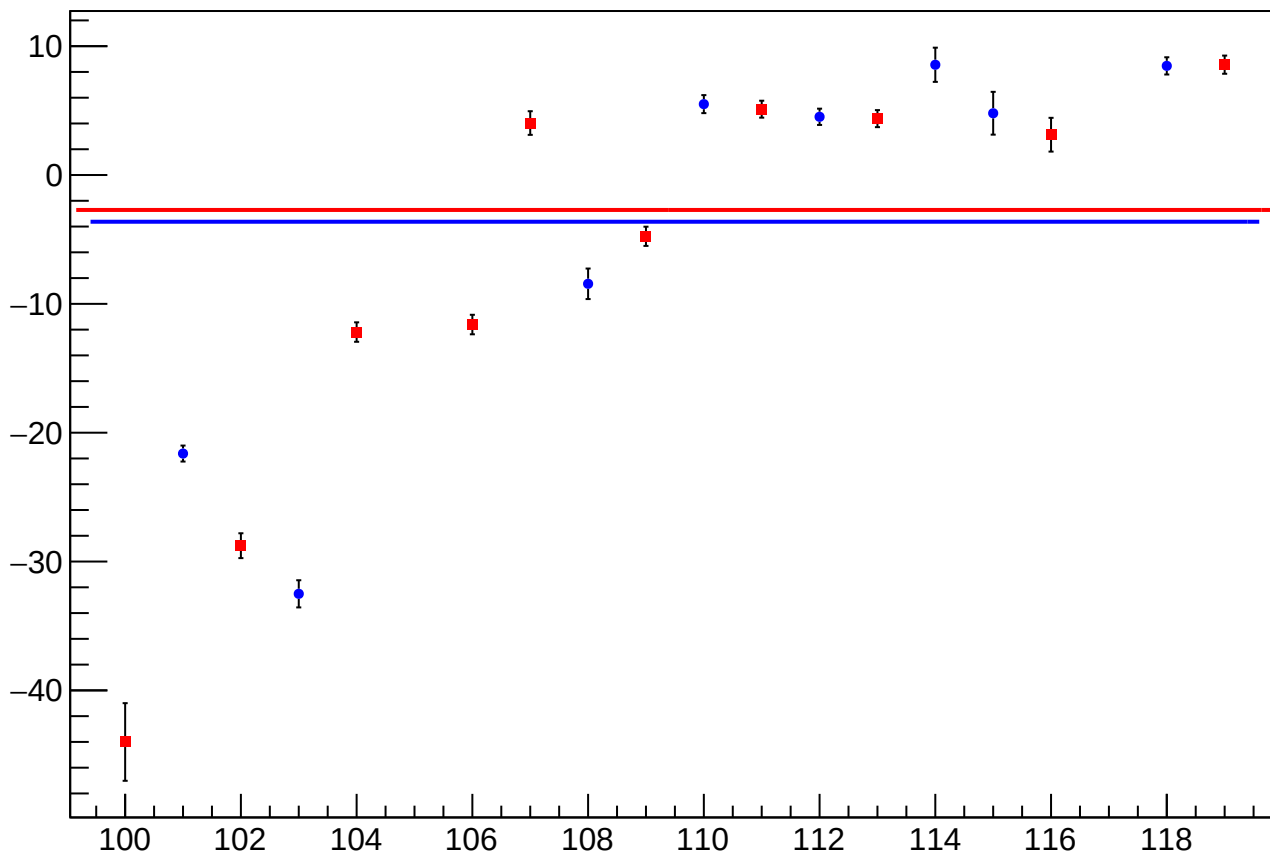
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.489 \pm 0.152$   $\chi^2/\text{NDF}$ : 2042.3/17

- 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: -3.626+/-0.290  $\chi^2/\text{NDF}$ : 2380.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.712+/-0.259  $\chi^2/\text{NDF}$ : 1807.3/9

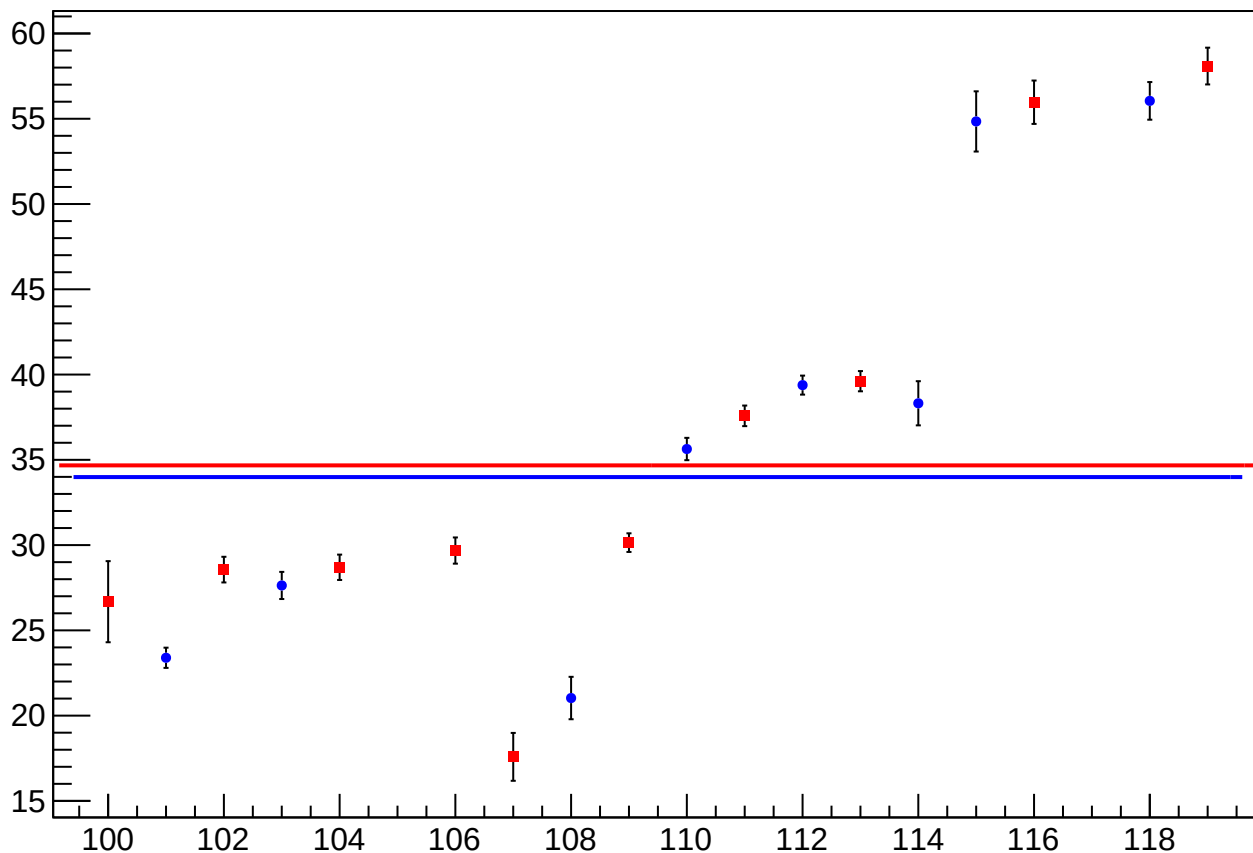
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.119+/-0.193  $\chi^2/\text{NDF}$ : 4193.6/17

- 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: 33.989+/-0.284  $\chi^2/\text{NDF}$ : 1141.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 34.674+/-0.247  $\chi^2/\text{NDF}$ : 1246.0/9

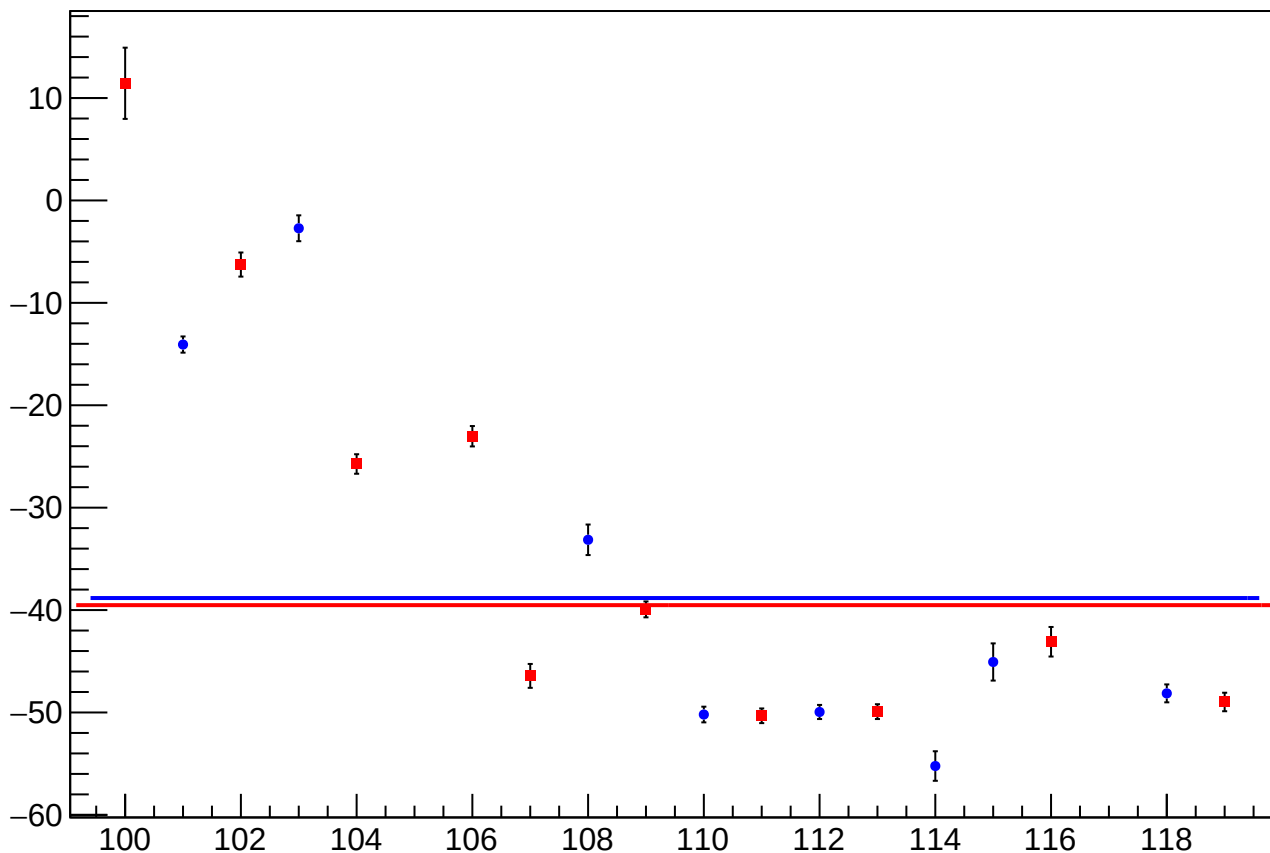
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.379+/-0.187  $\chi^2/\text{NDF}$ : 2391.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-38.825 \pm 0.342$   $\chi^2/\text{NDF}$ : 2546.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-39.520 \pm 0.303$   $\chi^2/\text{NDF}$ : 2082.0/9

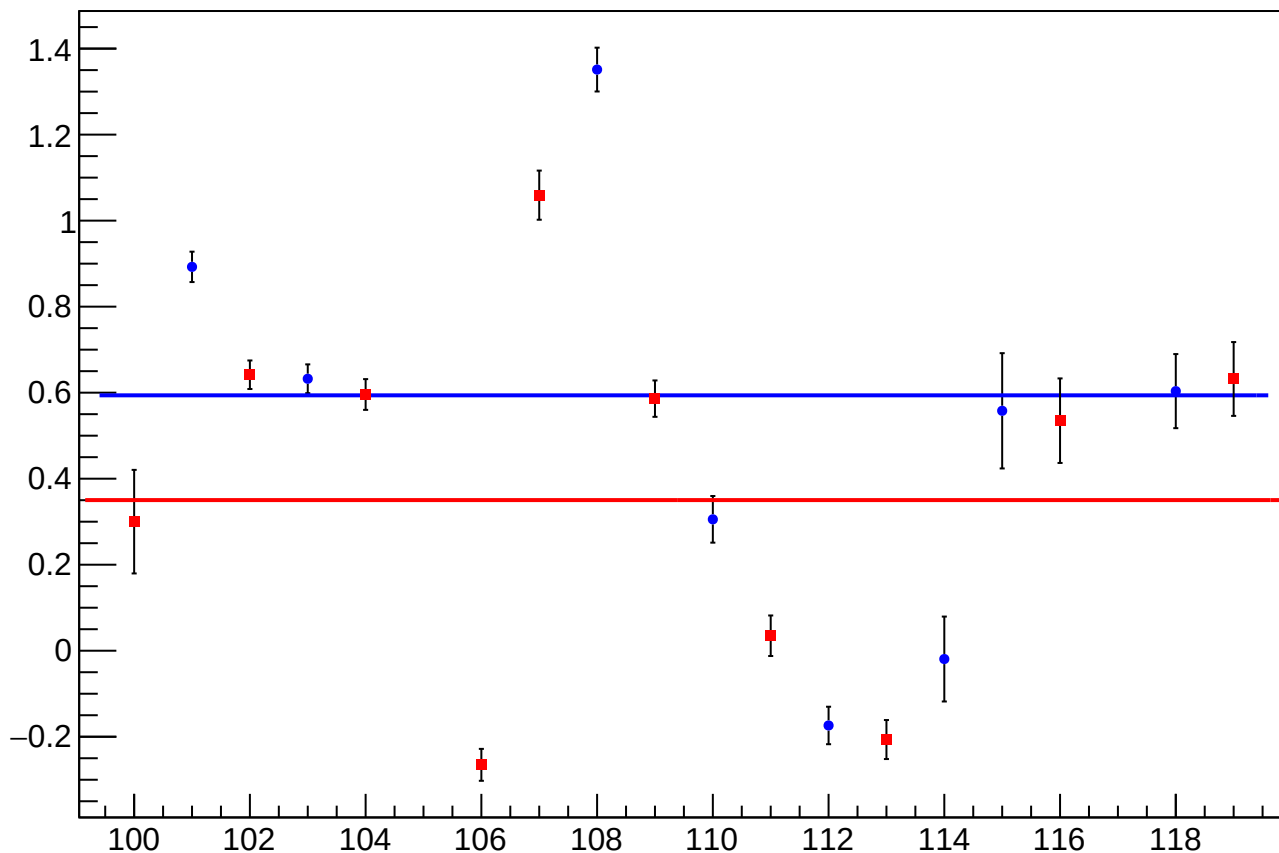
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-39.214 \pm 0.227$   $\chi^2/\text{NDF}$ : 4630.7/17

- 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: 0.594 $\pm$ 0.018  $\chi^2$ /NDF: 671.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.350 $\pm$ 0.015  $\chi^2$ /NDF: 794.6/9

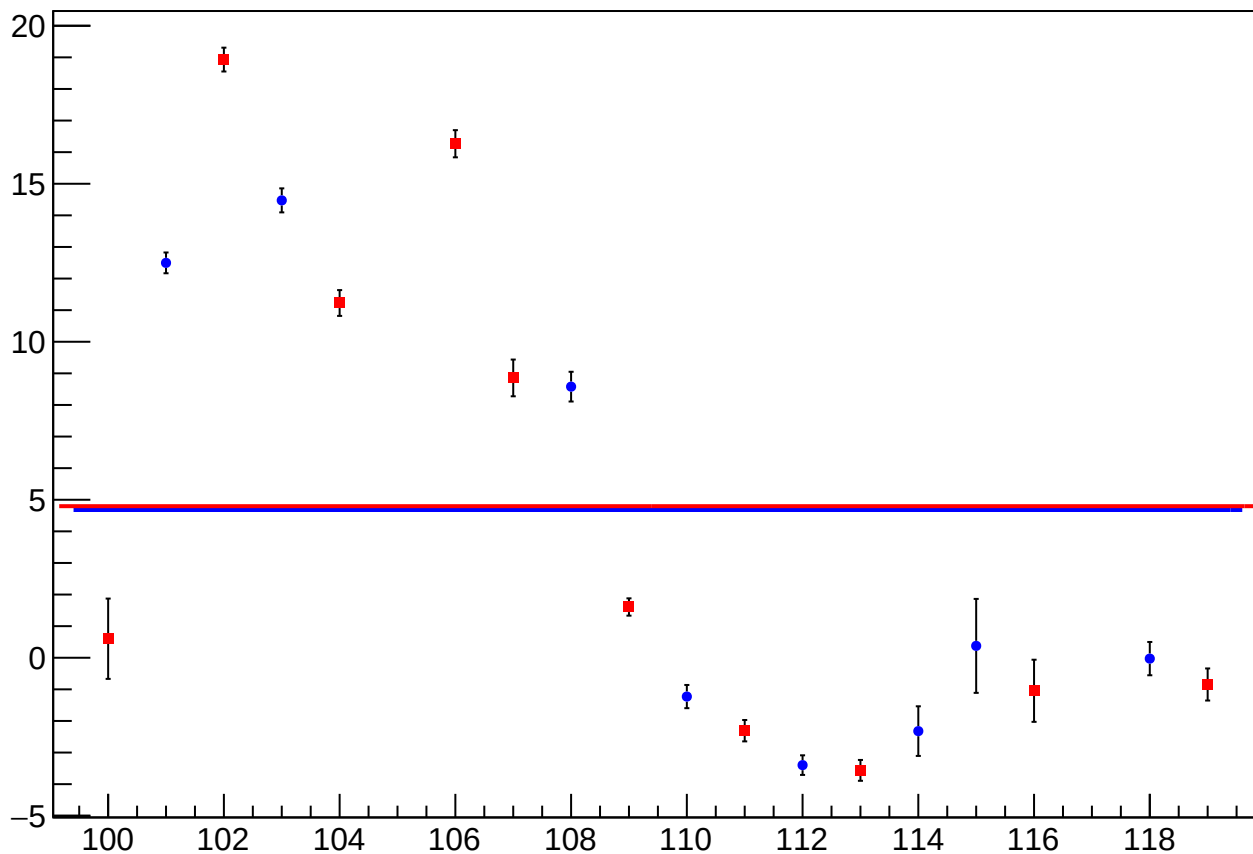
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.452 $\pm$ 0.011  $\chi^2$ /NDF: 1577.7/17

- 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: 4.676+/-0.150  $\chi^2/\text{NDF}$ : 2403.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.797+/-0.131  $\chi^2/\text{NDF}$ : 3803.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

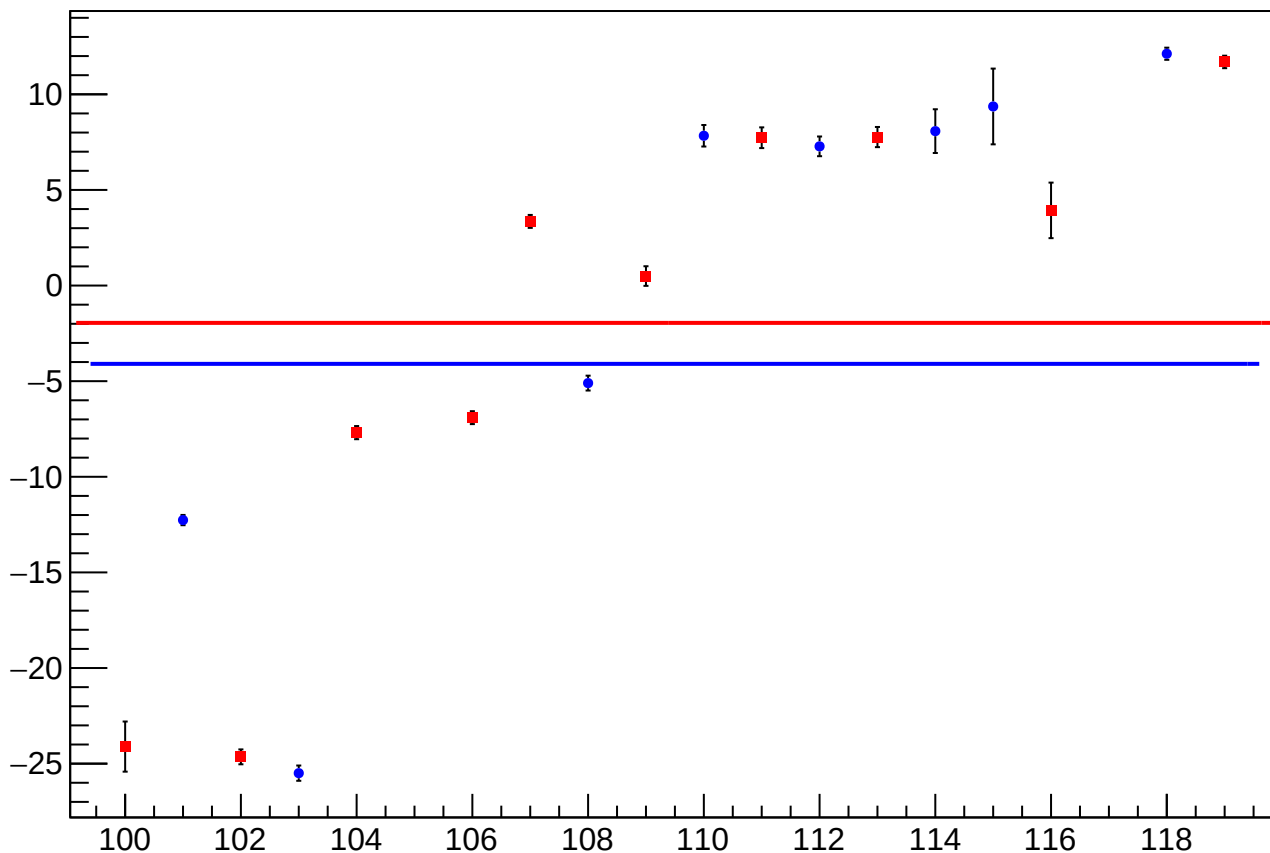
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.745+/-0.099  $\chi^2/\text{NDF}$ : 6207.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-4.095 \pm 0.150$   $\chi^2/\text{NDF}$ : 7505.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.952 \pm 0.136$   $\chi^2/\text{NDF}$ : 6861.2/9

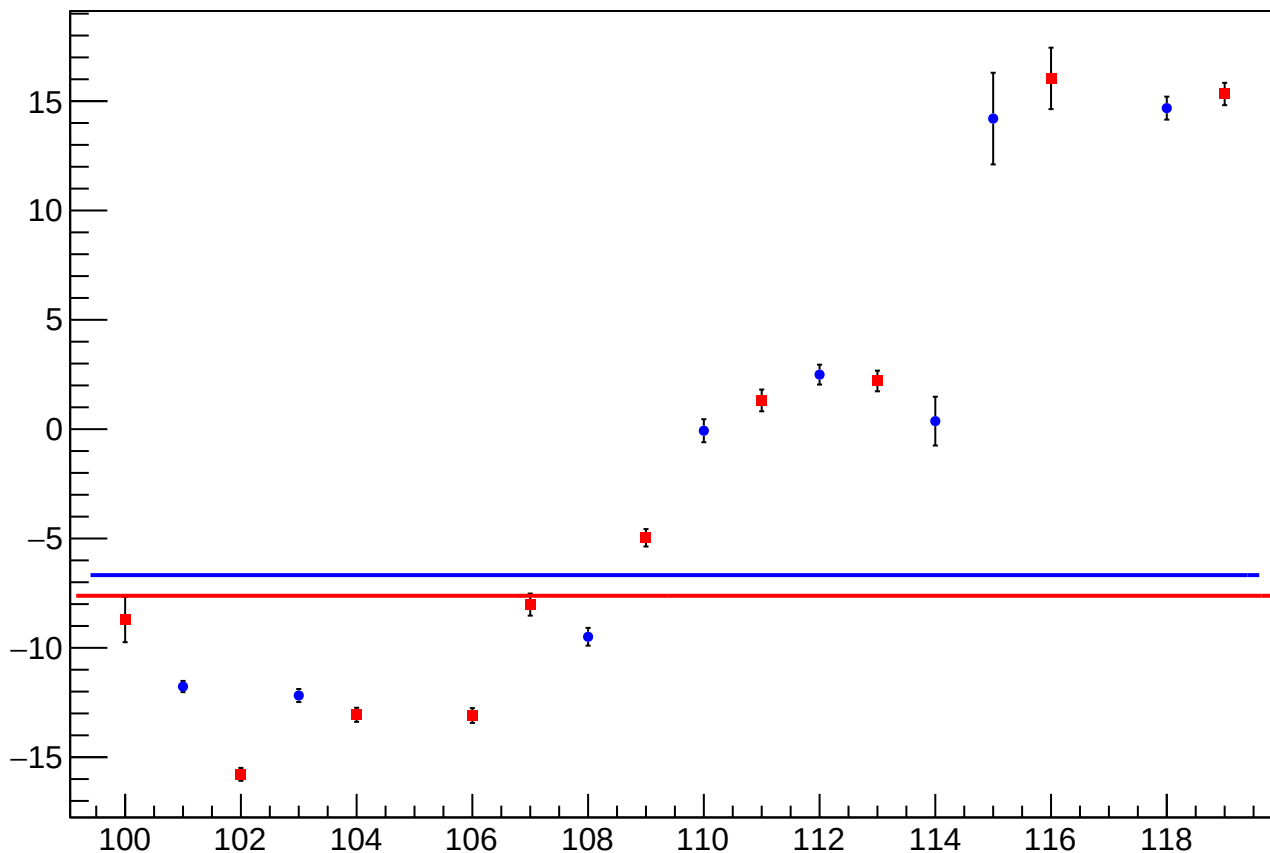
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.924 \pm 0.101$   $\chi^2/\text{NDF}$ : 14478.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -6.675+/-0.148  $\chi^2/\text{NDF}$ : 3142.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7.619+/-0.136  $\chi^2/\text{NDF}$ : 4405.1/9

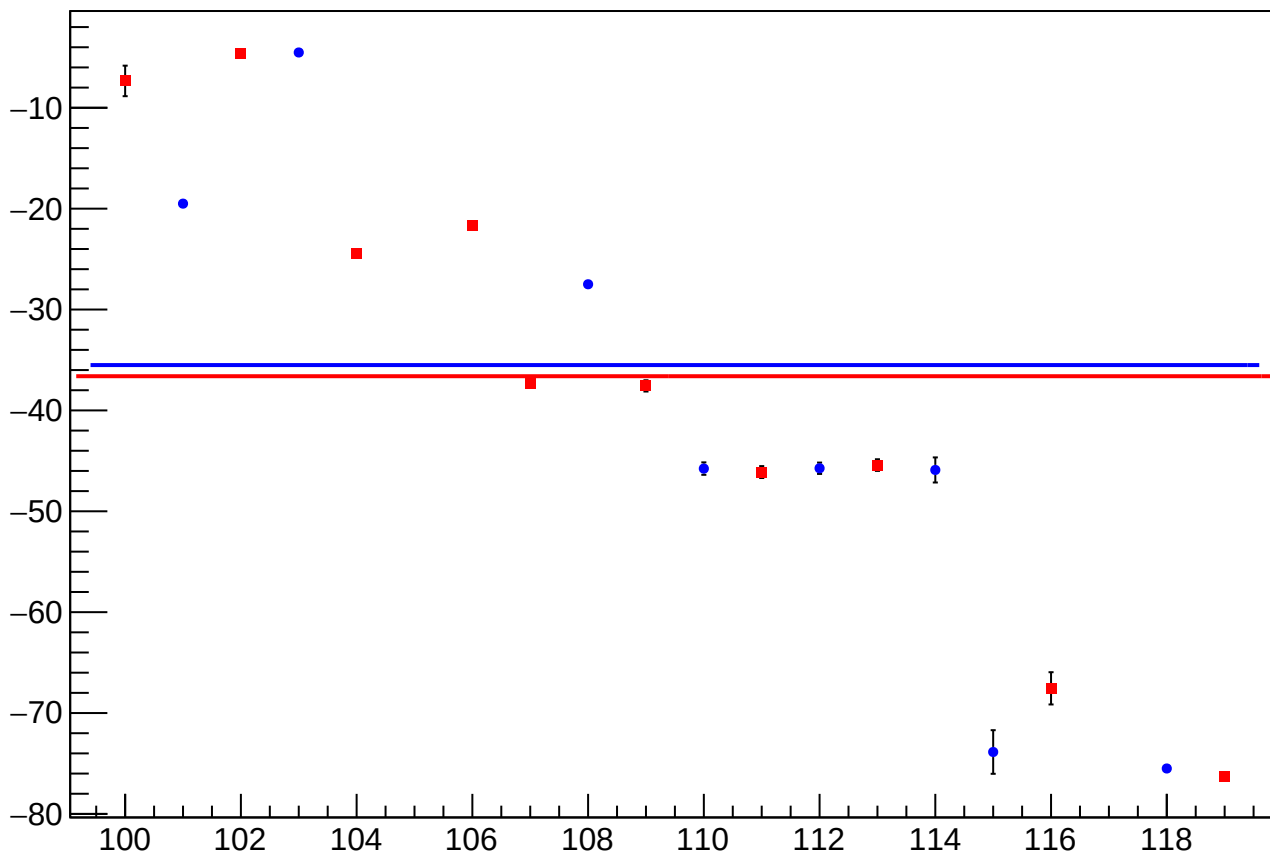
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.186+/-0.100  $\chi^2/\text{NDF}$ : 7569.2/17

- 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:  $-35.505 \pm 0.184$   $\chi^2/\text{NDF}: 16978.1/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-36.610 \pm 0.167$   $\chi^2/\text{NDF}: 16725.2/9$

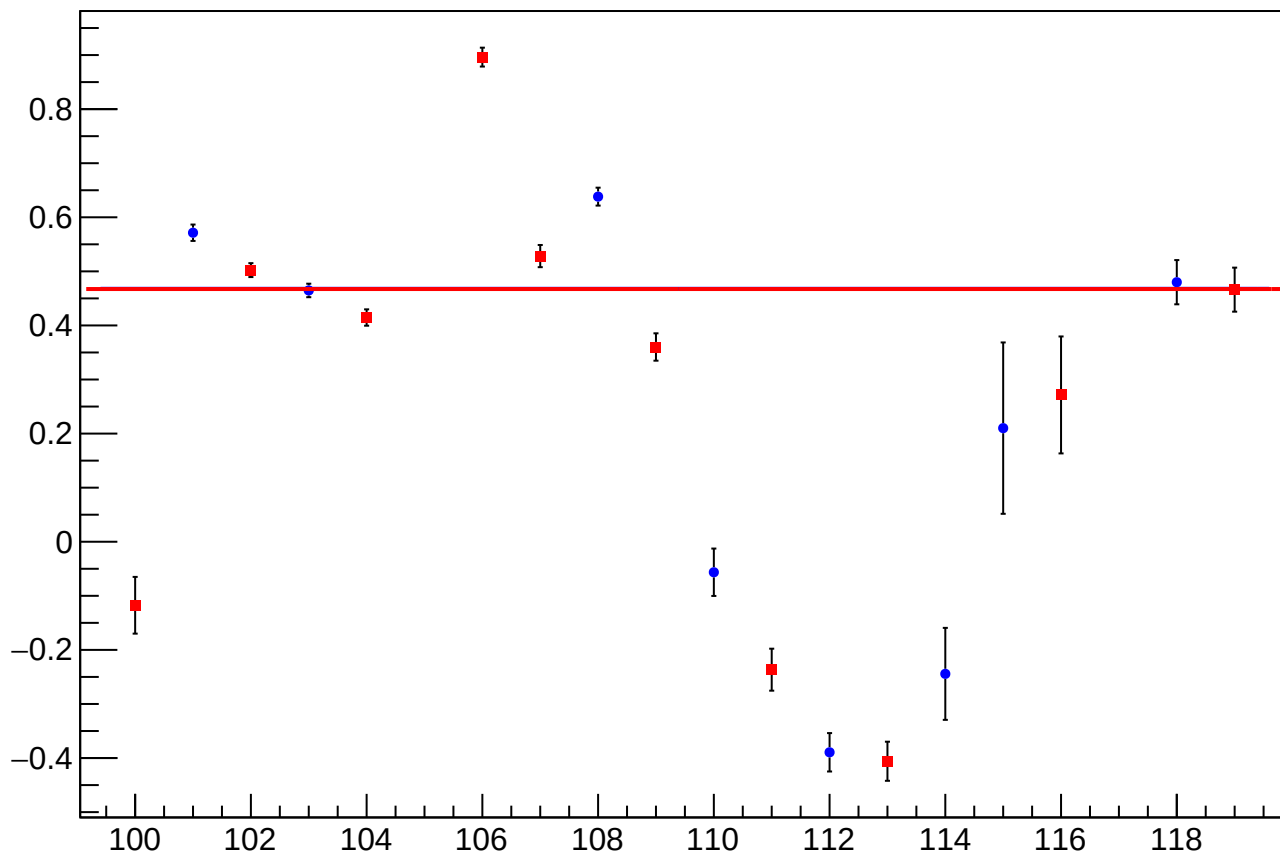
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-36.111 \pm 0.123$   $\chi^2/\text{NDF}: 33723.2/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.468 $\pm$ 0.008  $\chi^2$ /NDF: 951.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.467 $\pm$ 0.007  $\chi^2$ /NDF: 1689.3/9

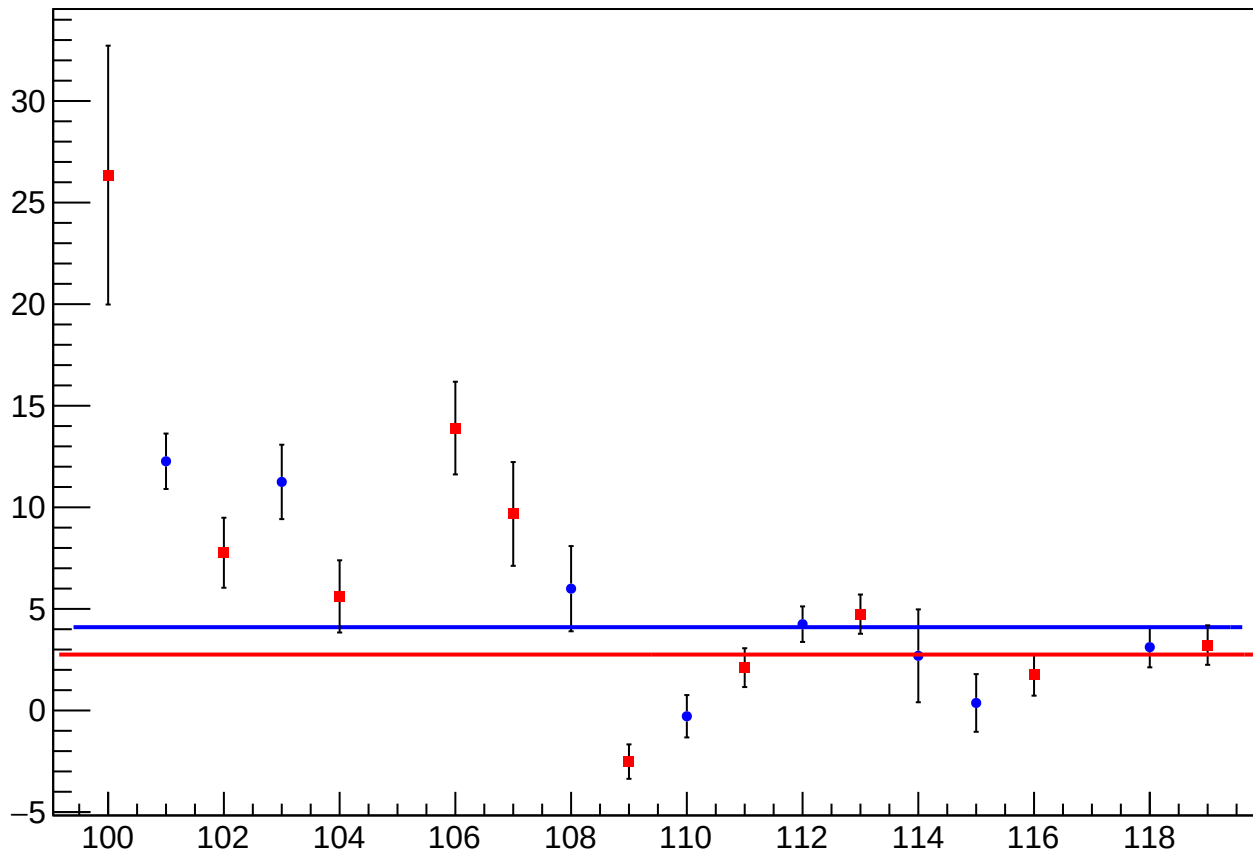
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.468 $\pm$ 0.005  $\chi^2$ /NDF: 2640.3/17

- 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: 4.101 $\pm$ 0.448  $\chi^2$ /NDF: 77.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.753 $\pm$ 0.389  $\chi^2$ /NDF: 100.6/9

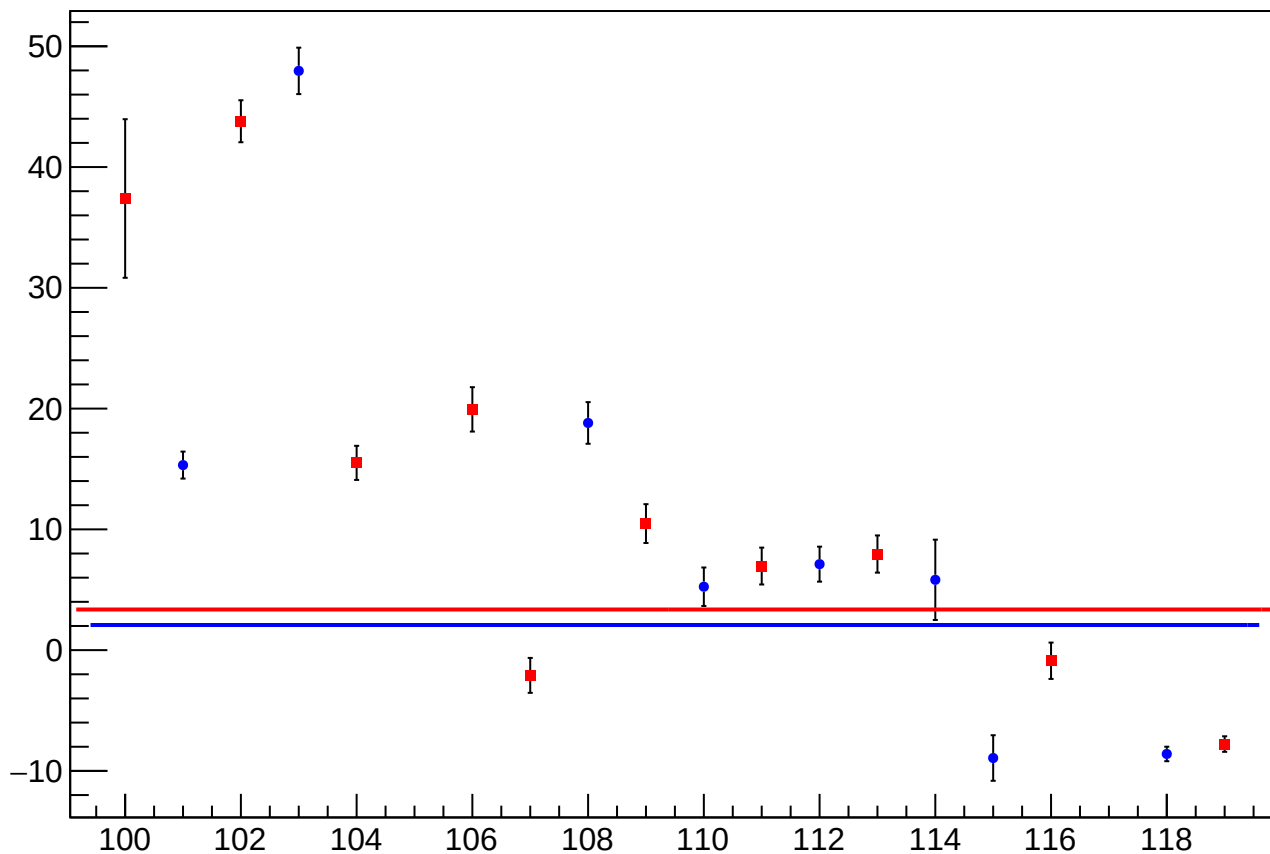
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.333 $\pm$ 0.294  $\chi^2$ /NDF: 183.6/17

- 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: 2.081+/-0.430  $\chi^2/\text{NDF}$ : 1171.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.365+/-0.418  $\chi^2/\text{NDF}$ : 1079.4/9

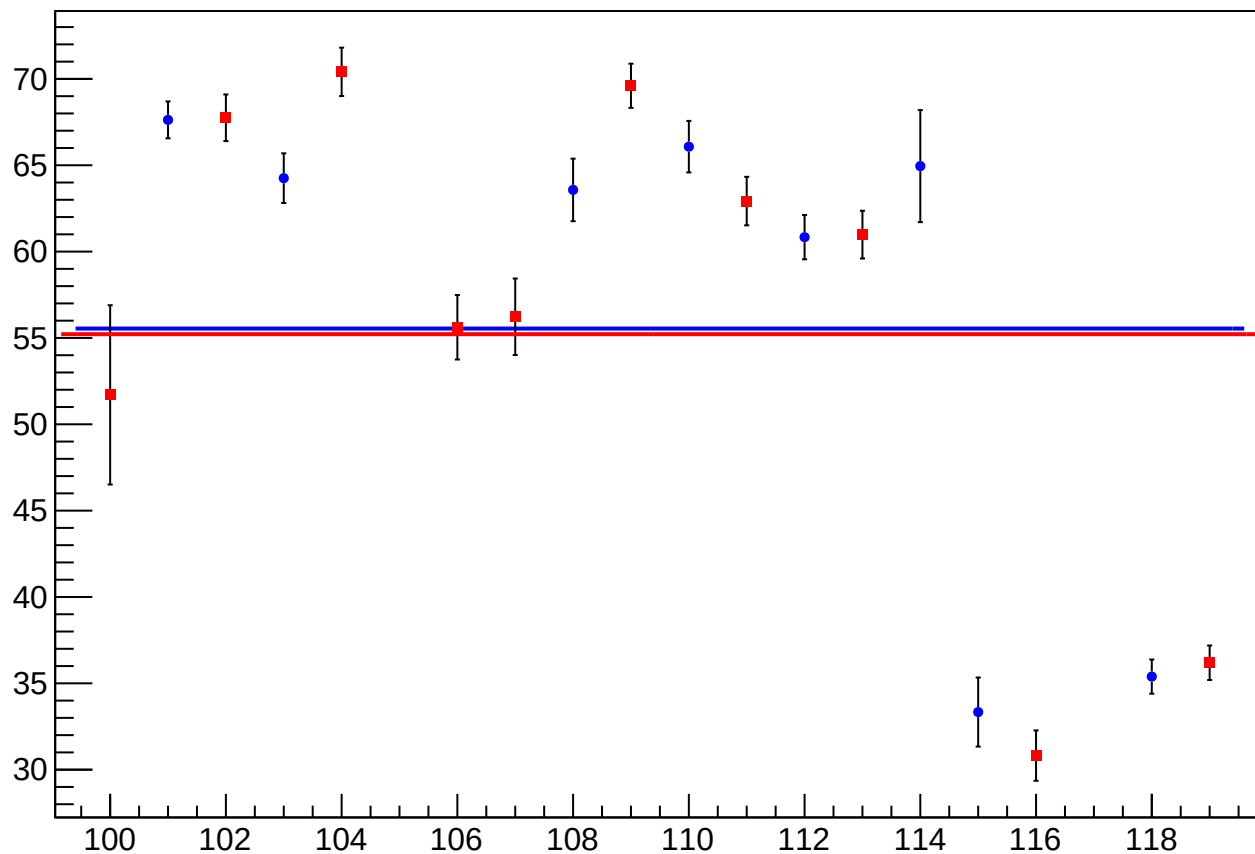
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.741+/-0.300  $\chi^2/\text{NDF}$ : 2255.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 55.543 $\pm$ 0.495  $\chi^2$ /NDF: 797.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 55.217 $\pm$ 0.461  $\chi^2$ /NDF: 1020.9/9

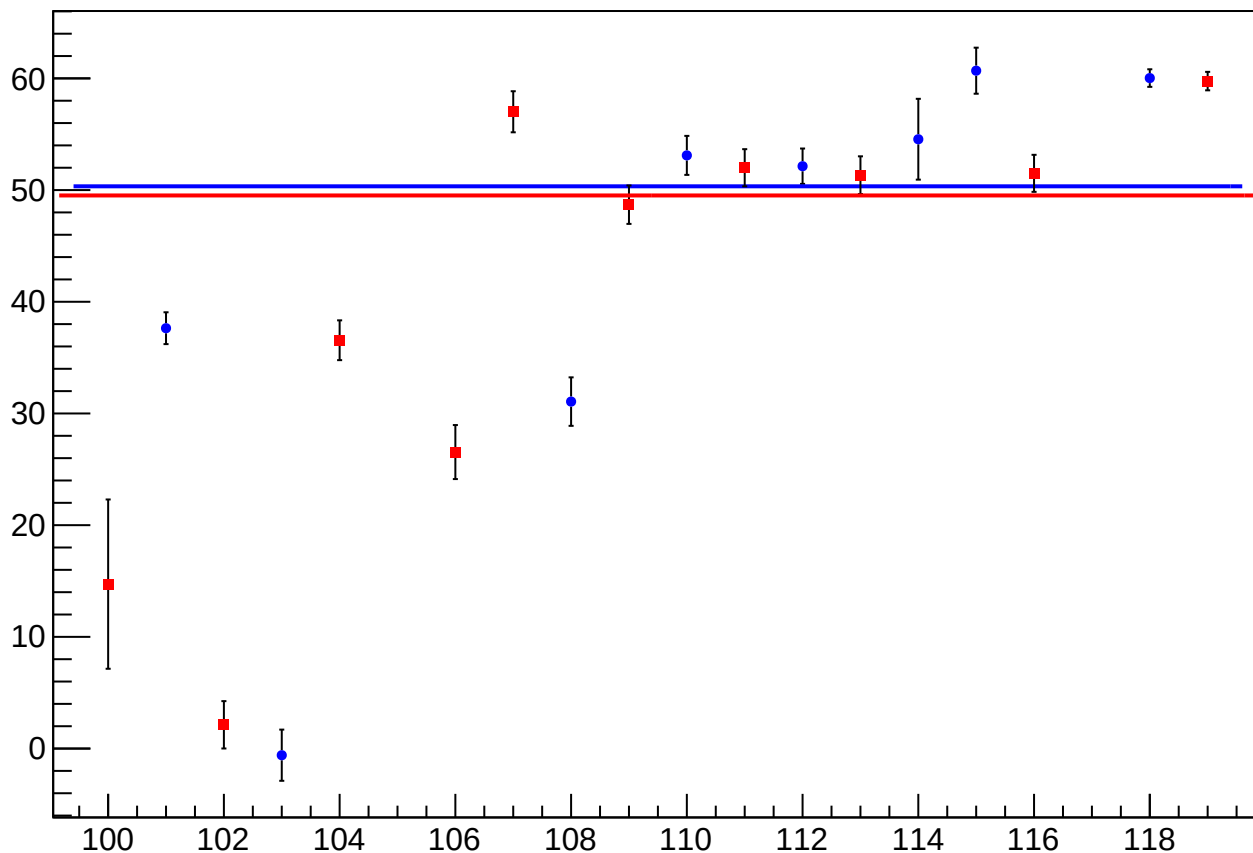
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 55.369 $\pm$ 0.337  $\chi^2$ /NDF: 1818.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 50.337 $\pm$ 0.531  $\chi^2$ /NDF: 834.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 49.518 $\pm$ 0.506  $\chi^2$ /NDF: 839.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

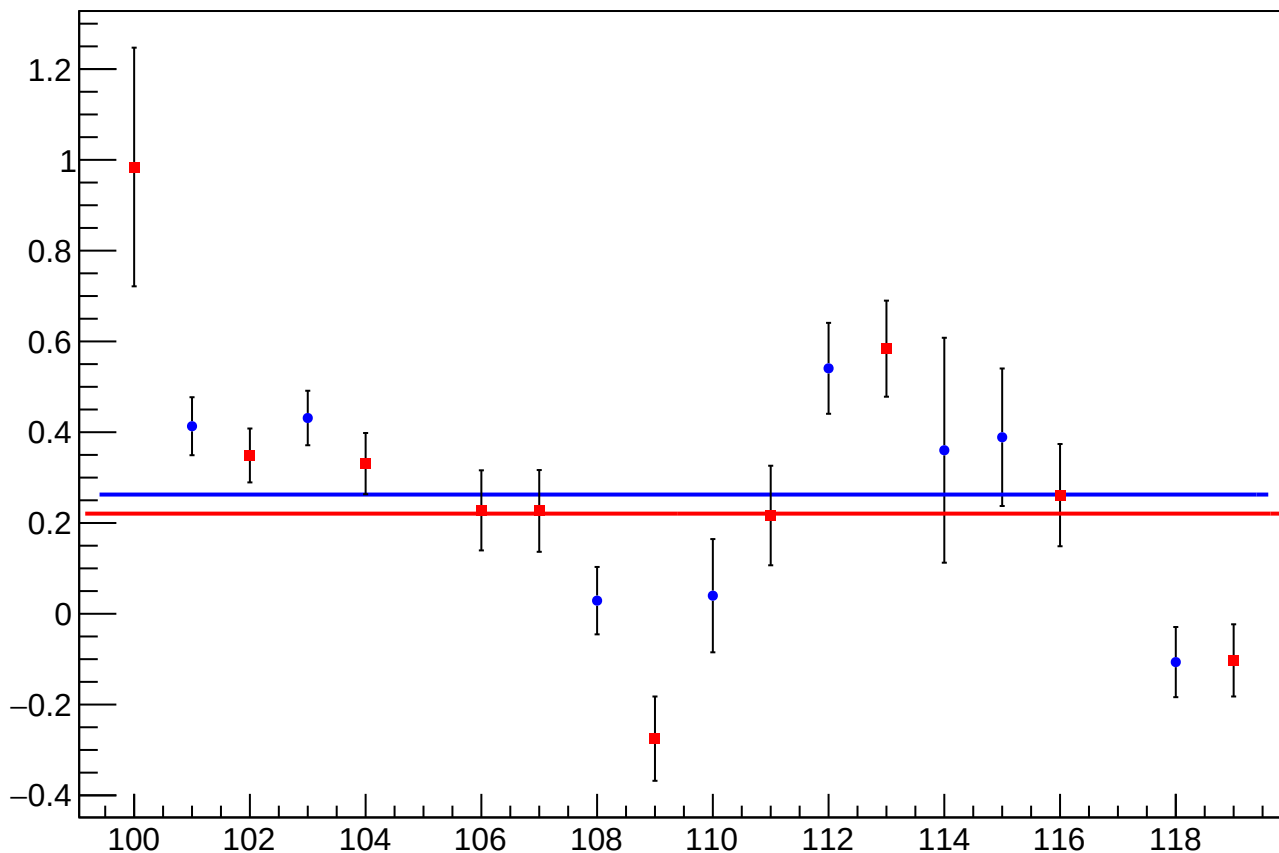
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 49.909 $\pm$ 0.366  $\chi^2$ /NDF: 1674.9/17

- 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: 0.263 $\pm$ 0.030  $\chi^2$ /NDF: 57.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.221 $\pm$ 0.028  $\chi^2$ /NDF: 72.7/9

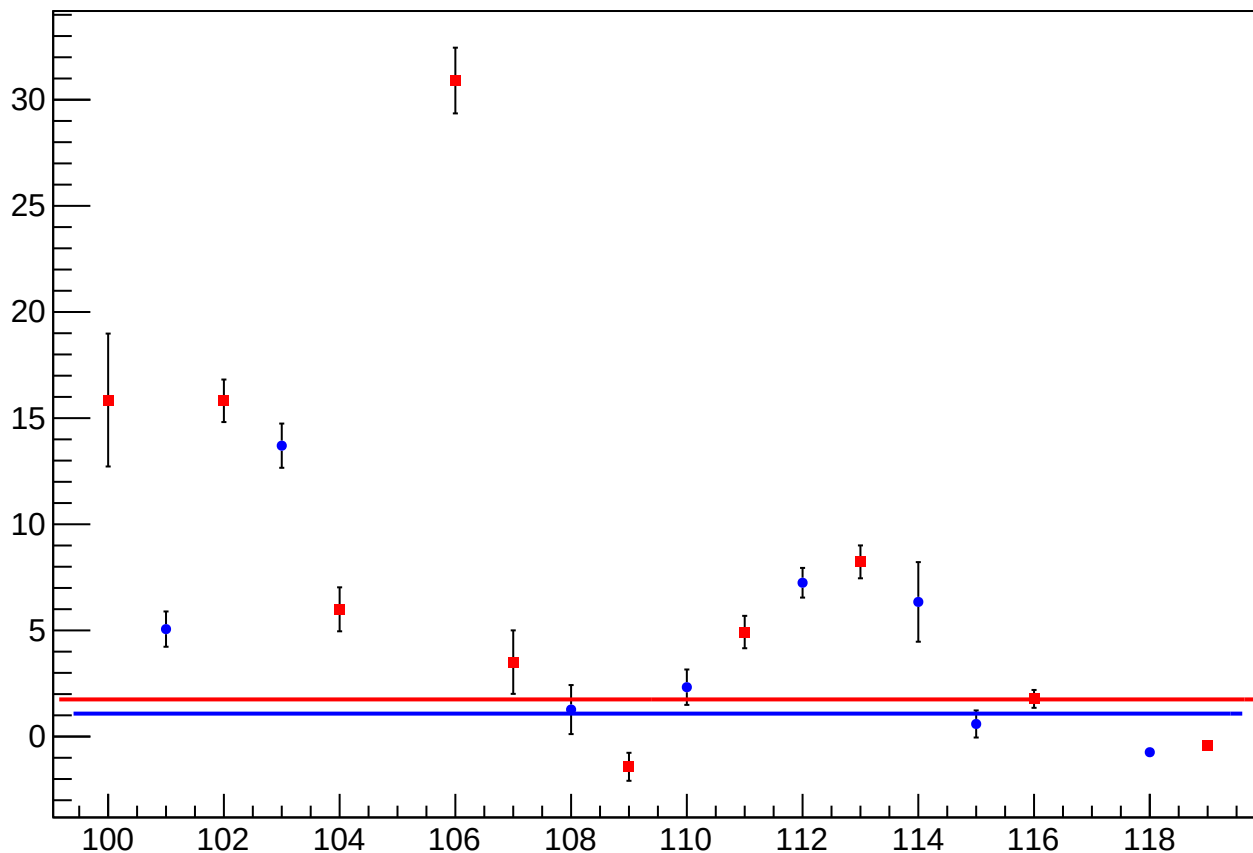
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.240 $\pm$ 0.020  $\chi^2$ /NDF: 131.7/17

- 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: 1.081+/-0.192  $\chi^2/\text{NDF}$ : 316.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.749+/-0.173  $\chi^2/\text{NDF}$ : 790.0/9

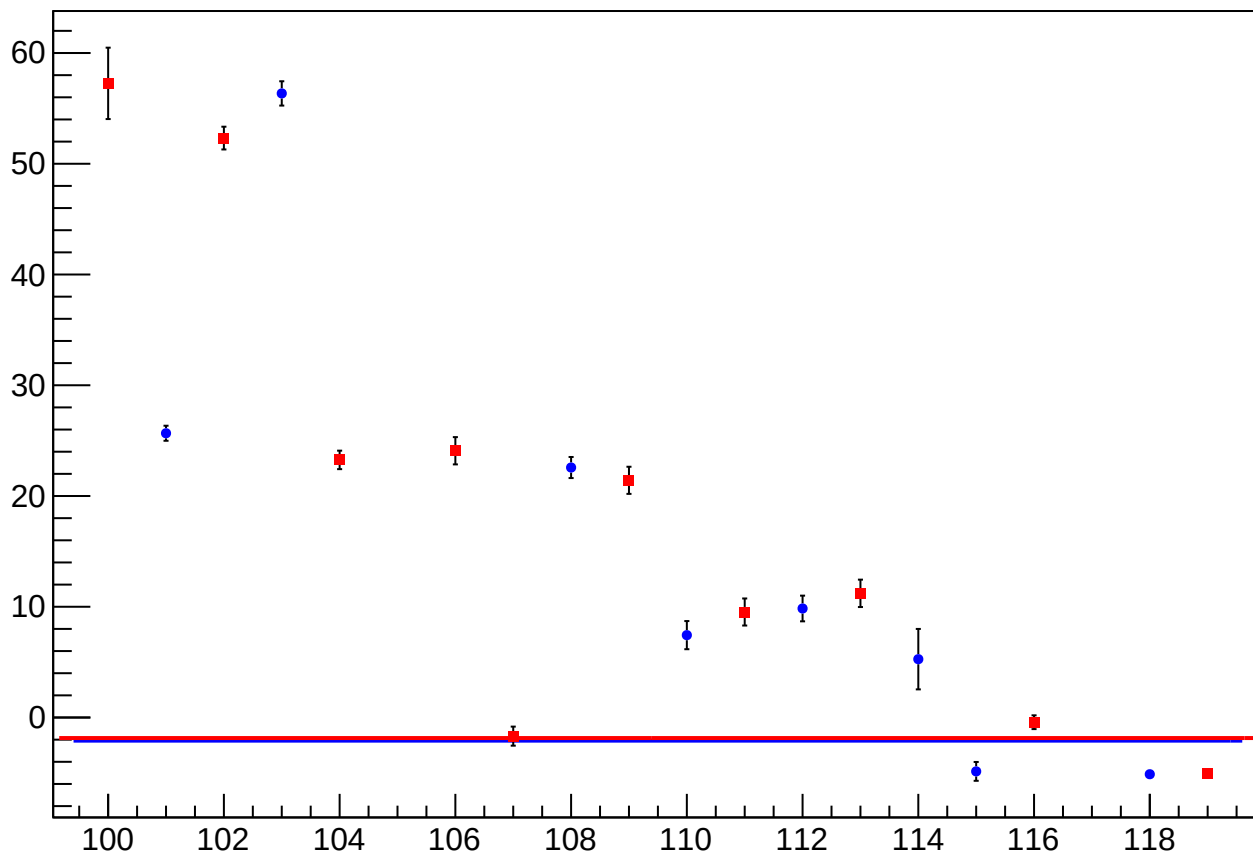
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.450+/-0.129  $\chi^2/\text{NDF}$ : 1113.5/17

- 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:  $-2.087 \pm 0.134$   $\chi^2/\text{NDF}$ : 5803.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.855 \pm 0.135$   $\chi^2/\text{NDF}$ : 5492.5/9

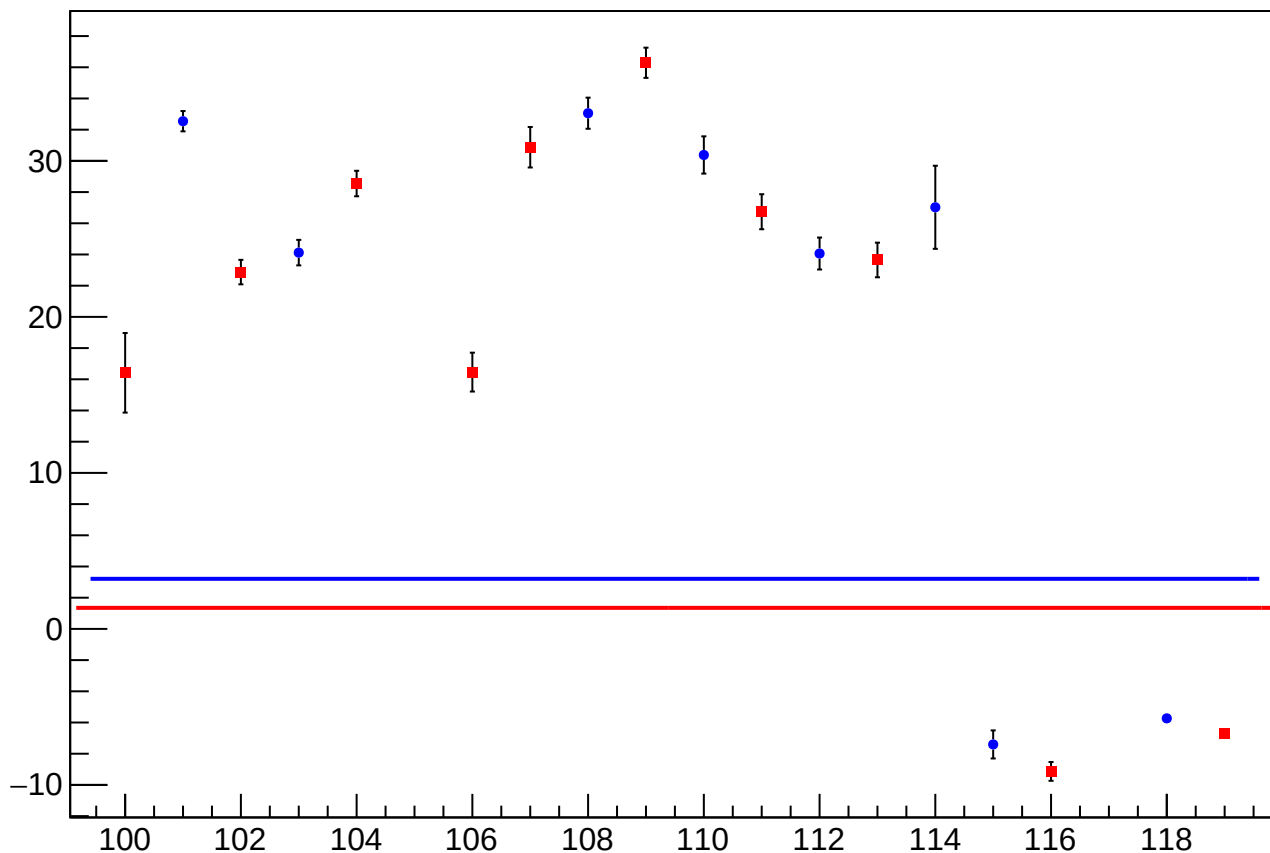
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.972 \pm 0.095$   $\chi^2/\text{NDF}$ : 11297.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 3.210 $\pm$ 0.197  $\chi^2$ /NDF: 6163.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.350 $\pm$ 0.186  $\chi^2$ /NDF: 6305.3/9

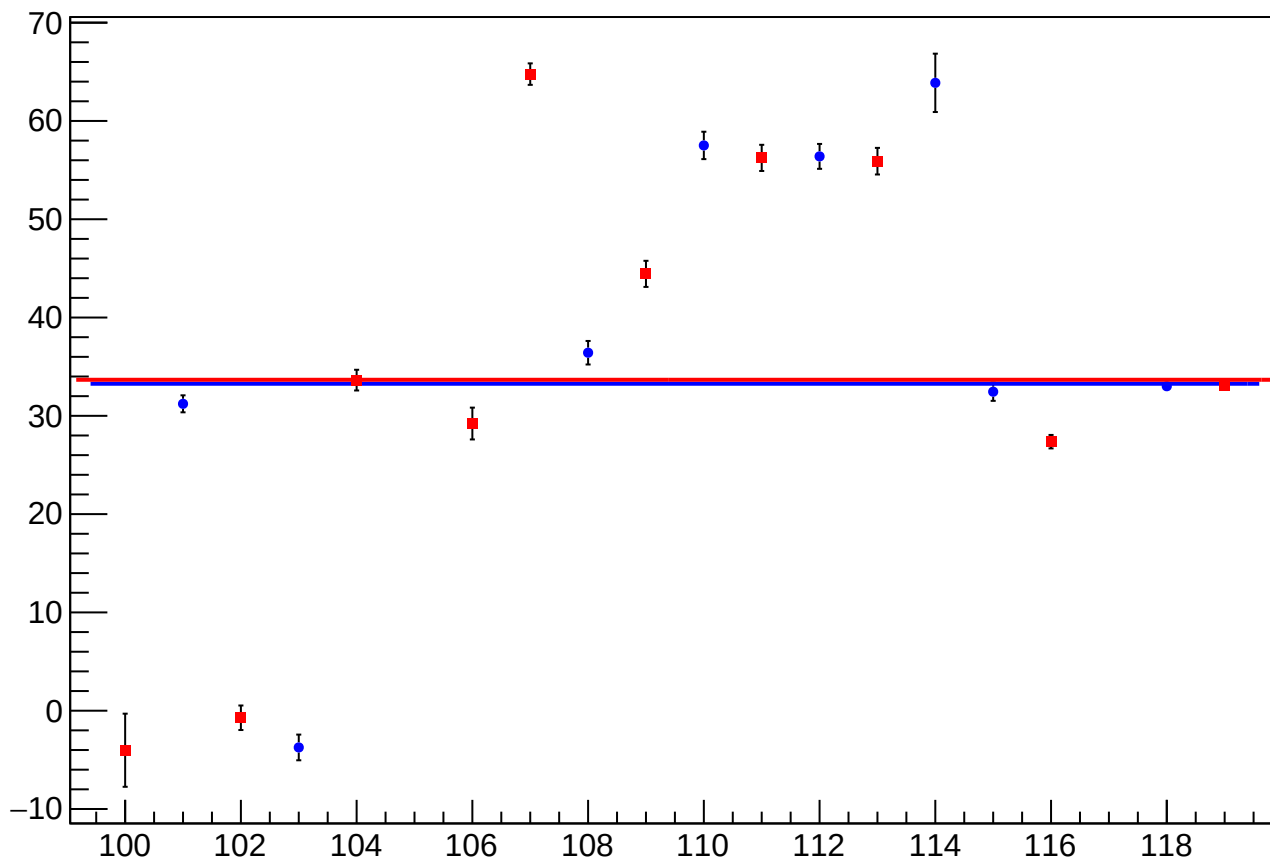
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.228 $\pm$ 0.135  $\chi^2$ /NDF: 12515.4/17

- 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: 33.264 $\pm$ 0.172  $\chi^2$ /NDF: 1559.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 33.668 $\pm$ 0.170  $\chi^2$ /NDF: 2398.9/9

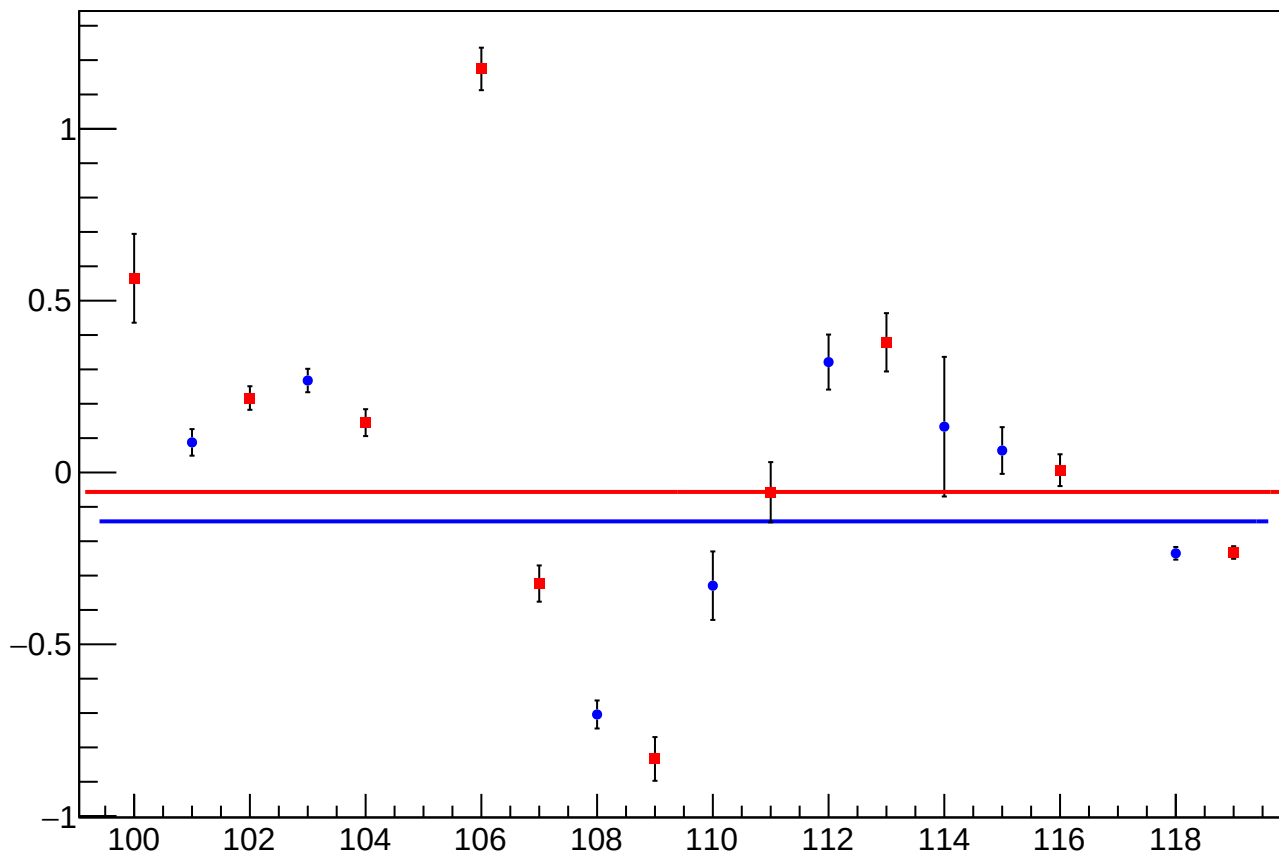
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.469 $\pm$ 0.121  $\chi^2$ /NDF: 3961.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.142 $\pm$ 0.013  $\chi^2$ /NDF: 443.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.057 $\pm$ 0.013  $\chi^2$ /NDF: 804.7/9

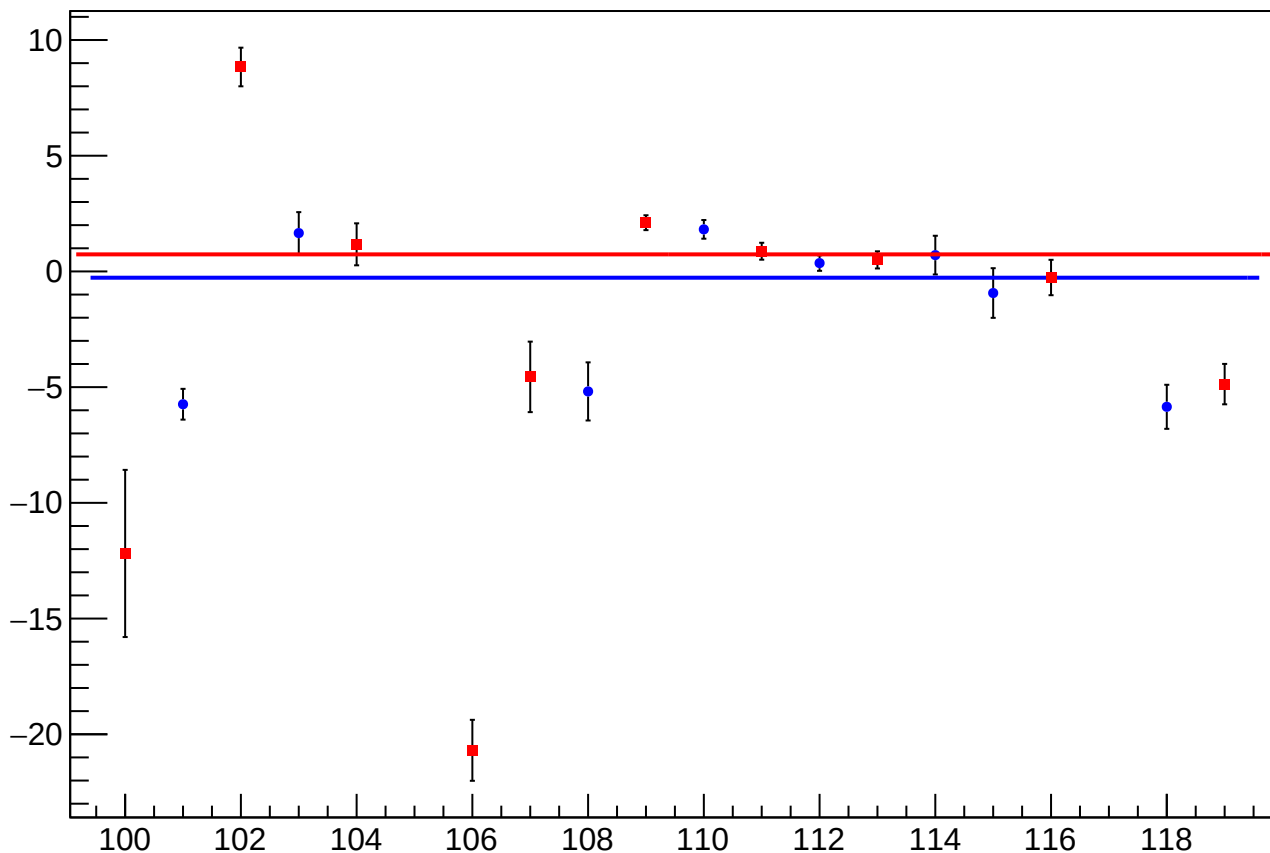
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.097 $\pm$ 0.009  $\chi^2$ /NDF: 1269.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -0.271+/-0.210  $\chi^2/\text{NDF}$ : 153.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.737+/-0.179  $\chi^2/\text{NDF}$ : 445.5/9

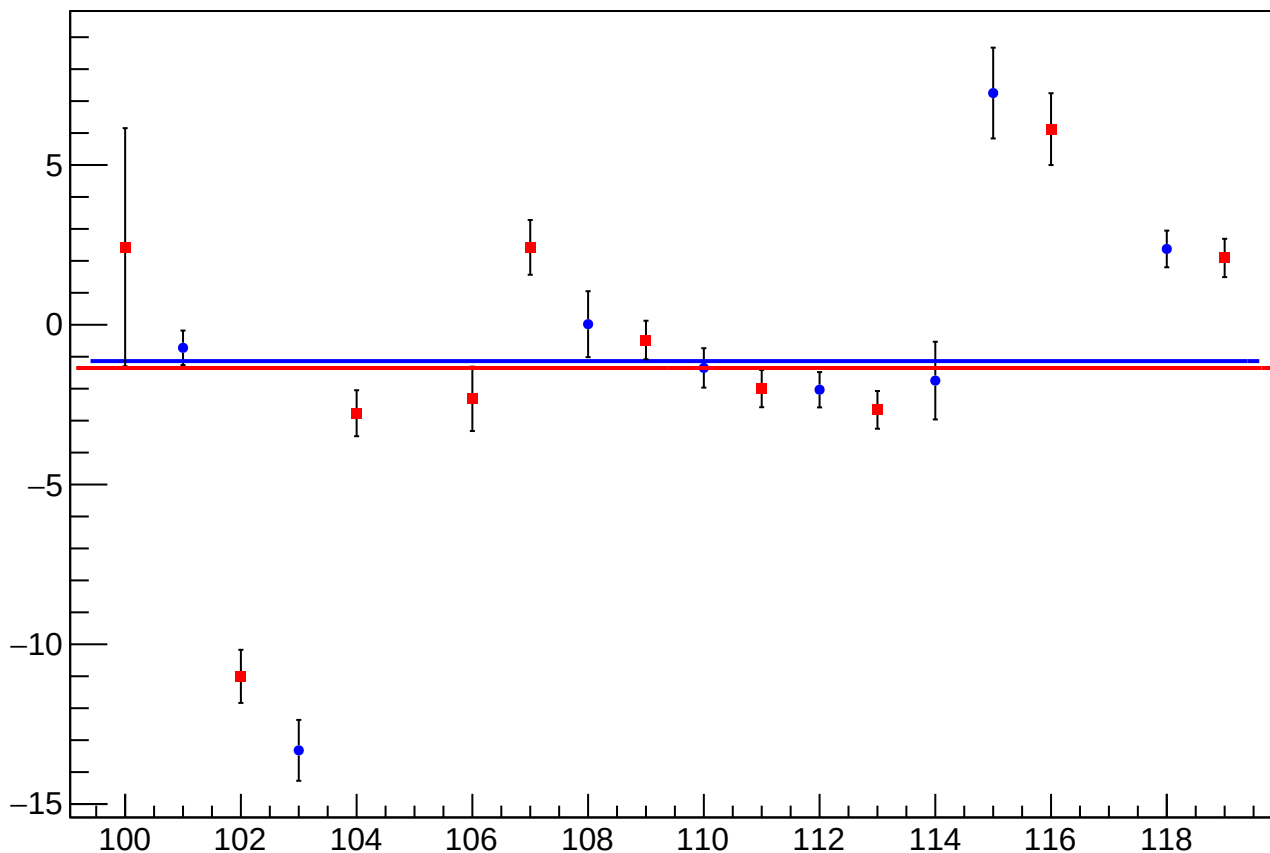
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.314+/-0.136  $\chi^2/\text{NDF}$ : 612.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -1.137+/-0.253  $\chi^2$ /NDF: 240.6/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.352+/-0.236  $\chi^2$ /NDF: 245.5/9

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

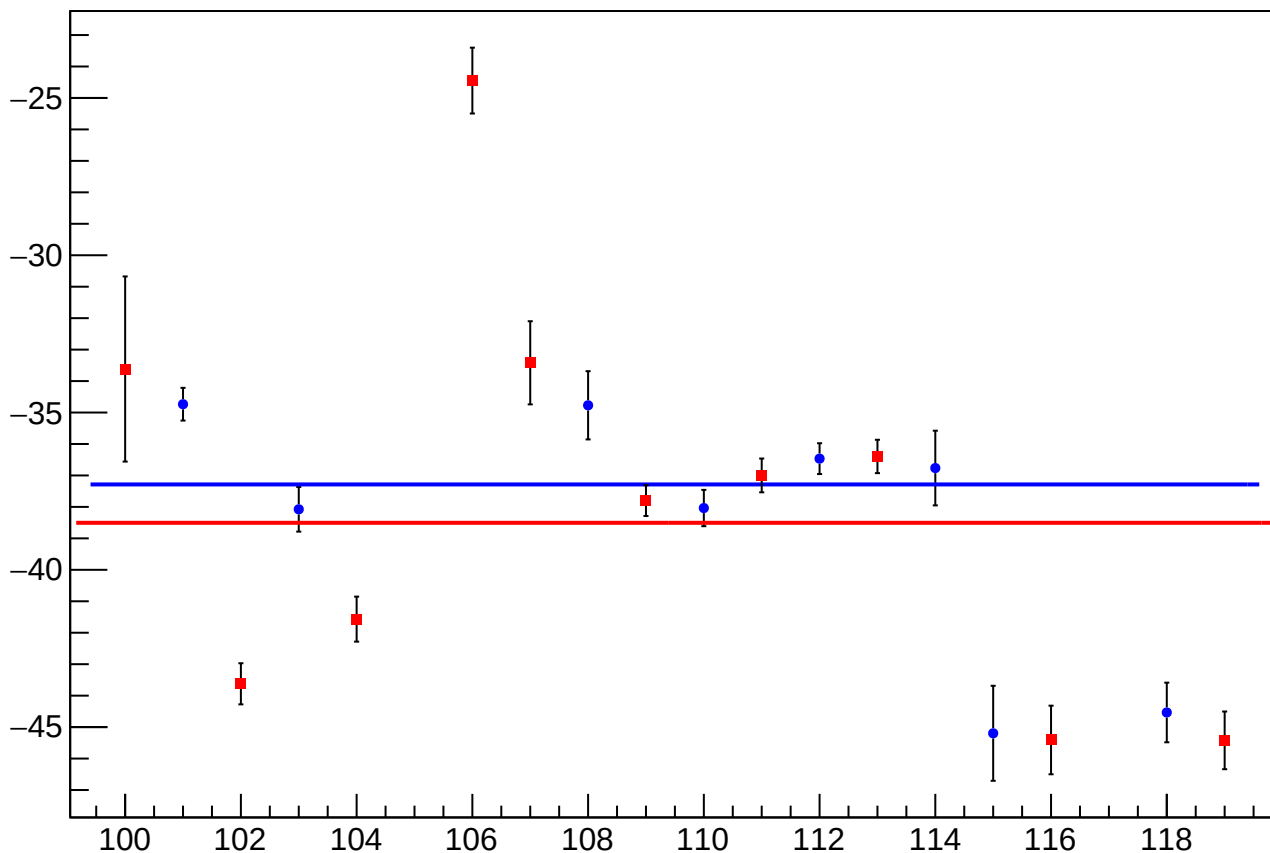
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1.252+/-0.173  $\chi^2$ /NDF: 486.5/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -37.286+/-0.250  $\chi^2/\text{NDF}$ : 121.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -38.505+/-0.229  $\chi^2/\text{NDF}$ : 400.3/9

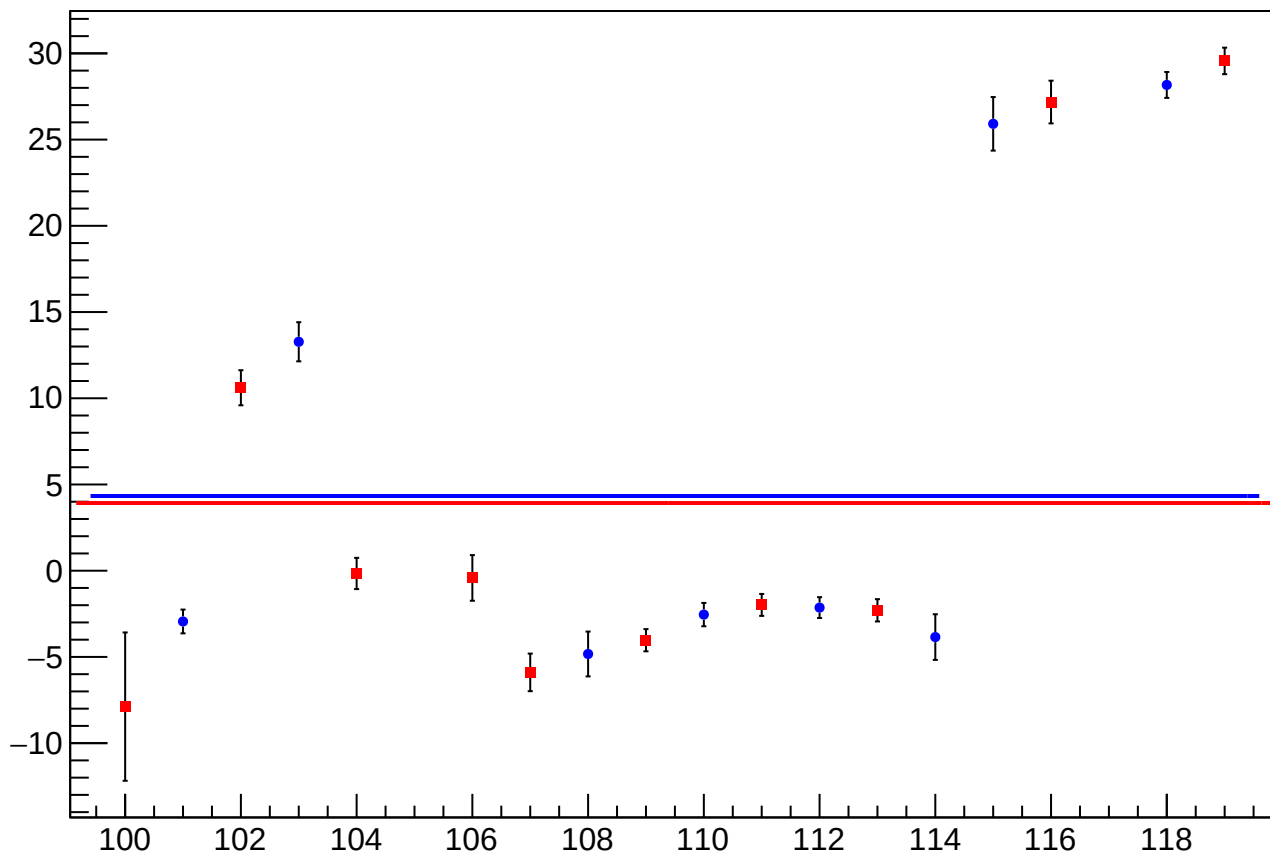
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -37.950+/-0.169  $\chi^2/\text{NDF}$ : 534.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 4.332 $\pm$ 0.299  $\chi^2$ /NDF: 1680.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.926 $\pm$ 0.274  $\chi^2$ /NDF: 1961.2/9

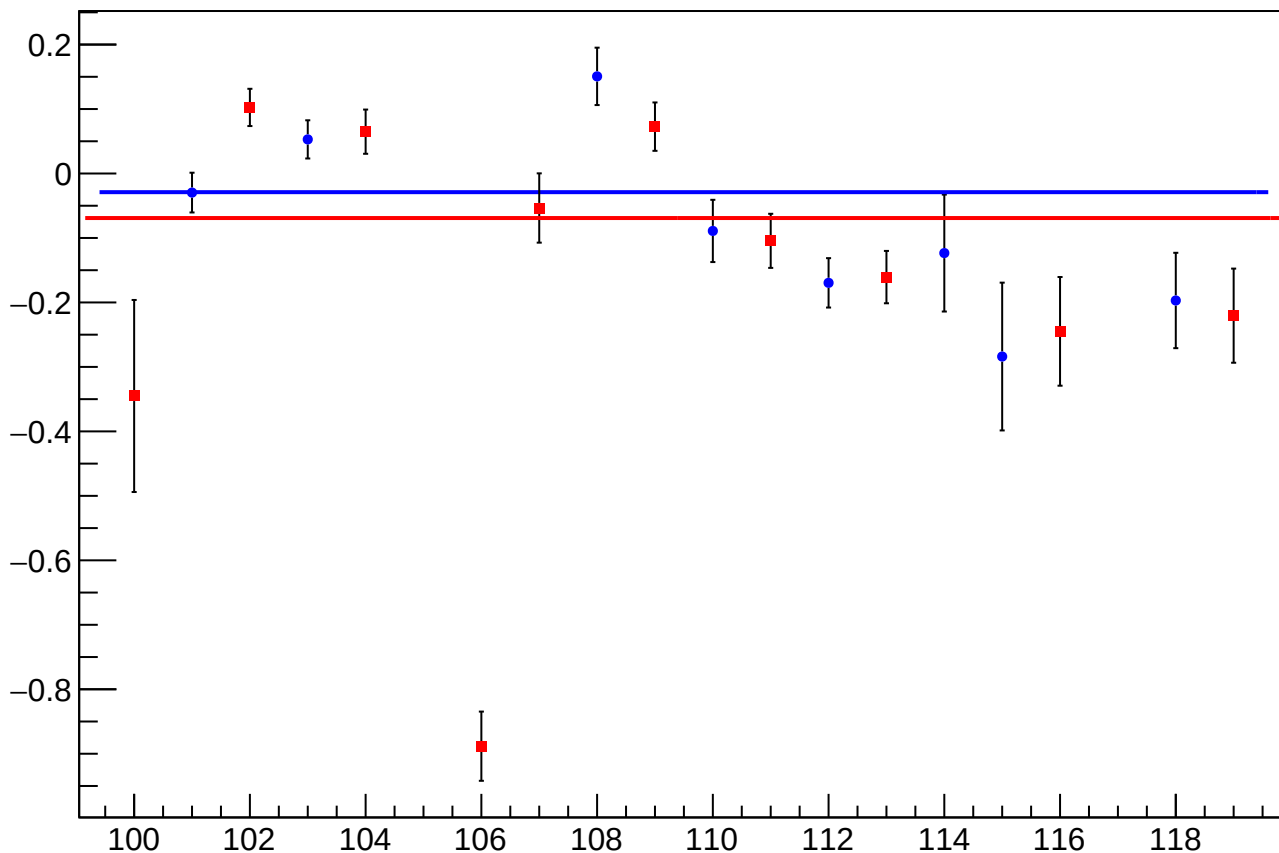
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.111 $\pm$ 0.202  $\chi^2$ /NDF: 3642.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.029 \pm 0.015$   $\chi^2/\text{NDF}$ : 50.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.069 \pm 0.014$   $\chi^2/\text{NDF}$ : 315.7/9

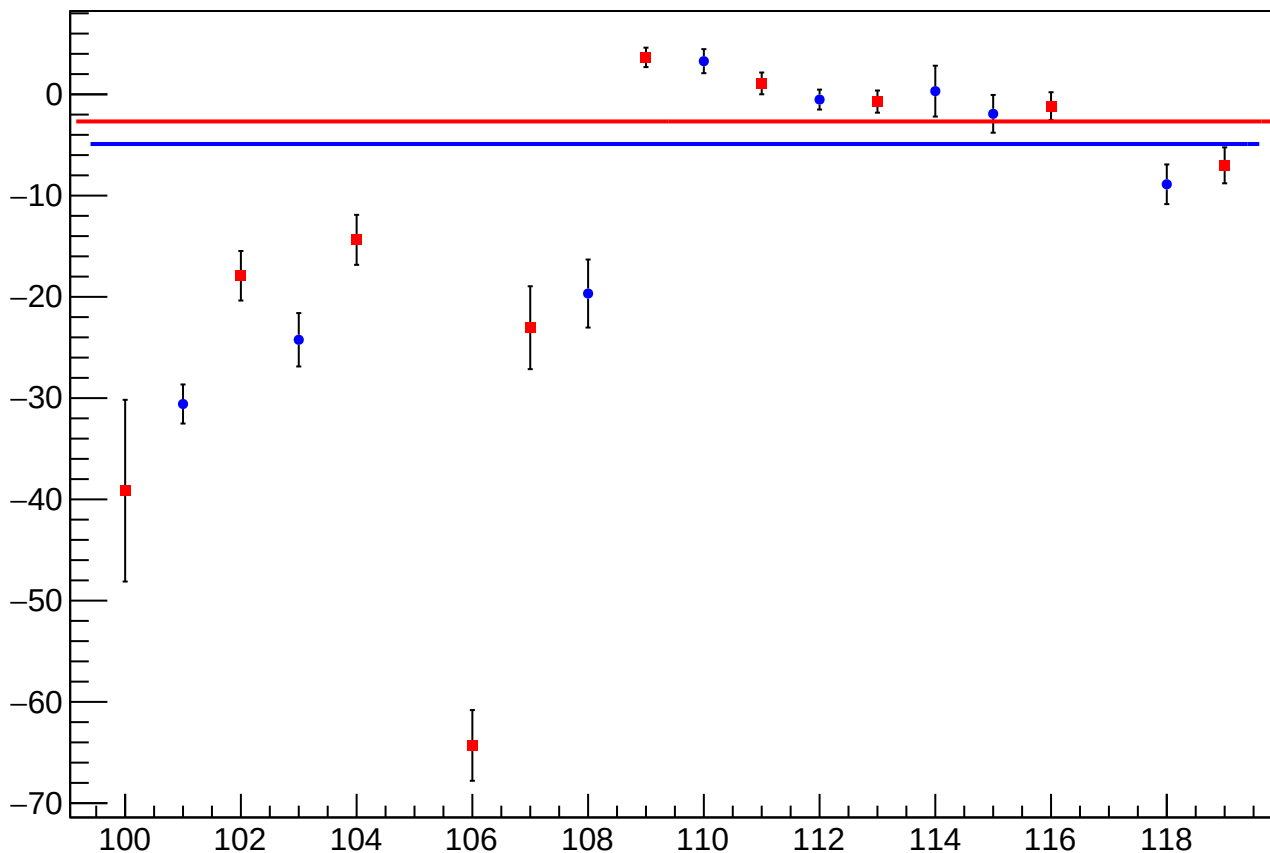
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.051 \pm 0.010$   $\chi^2/\text{NDF}$ : 369.5/17

- 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:  $-4.906 \pm 0.582$   $\chi^2/\text{NDF}$ : 328.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.676 \pm 0.493$   $\chi^2/\text{NDF}$ : 479.9/9

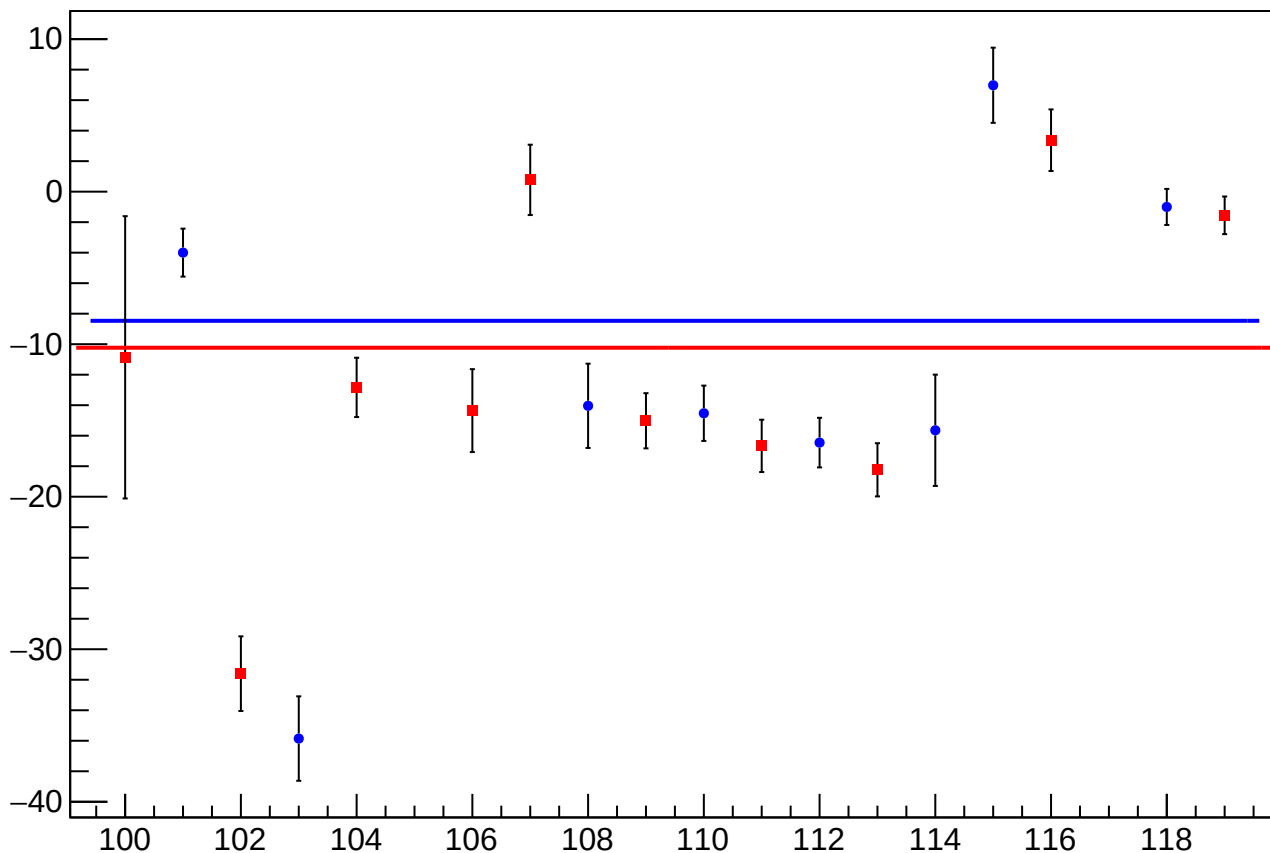
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-3.607 \pm 0.376$   $\chi^2/\text{NDF}$ : 817.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -8.467+/-0.659  $\chi^2/\text{NDF}$ : 228.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10.232+/-0.615  $\chi^2/\text{NDF}$ : 240.1/9

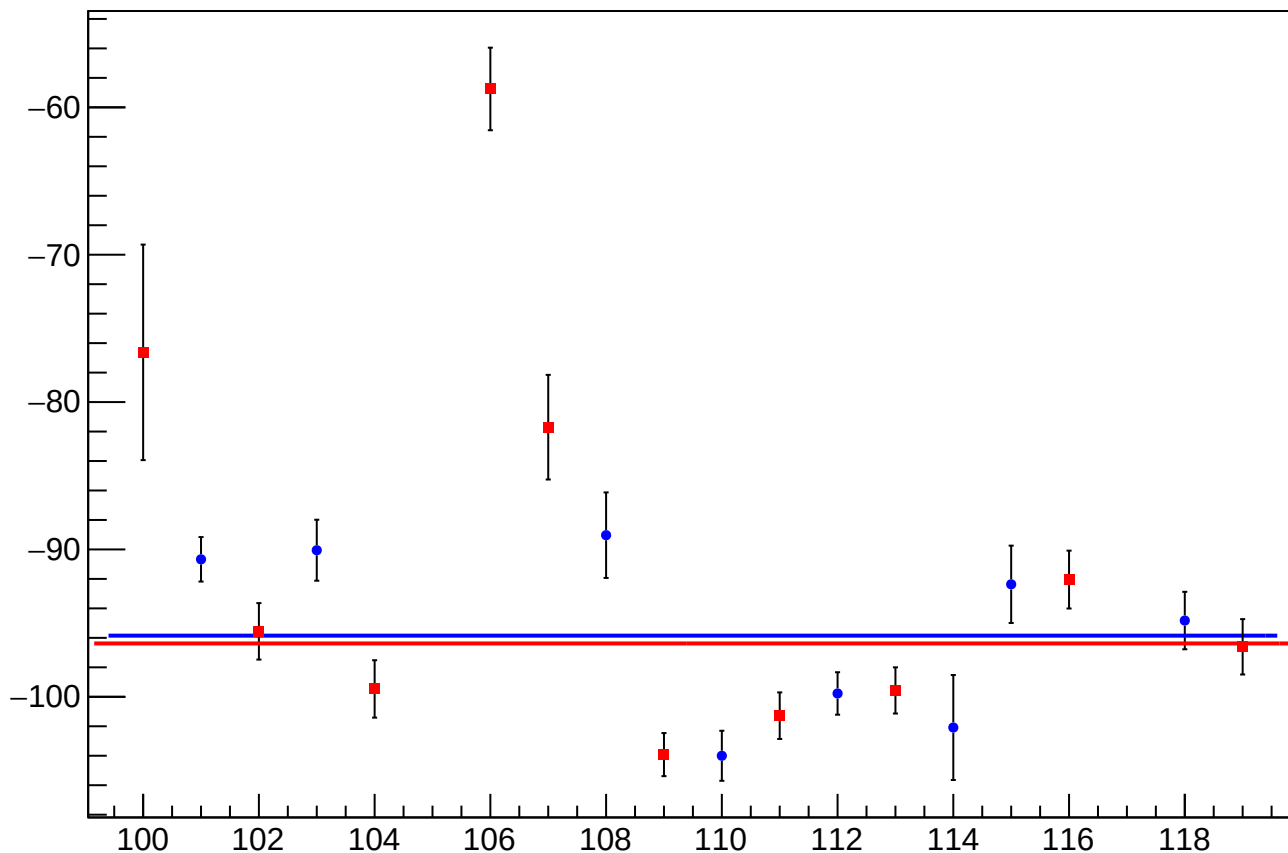
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.410+/-0.450  $\chi^2/\text{NDF}$ : 472.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -95.850+/-0.689  $\chi^2/\text{NDF}$ : 60.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -96.379+/-0.623  $\chi^2/\text{NDF}$ : 252.8/9

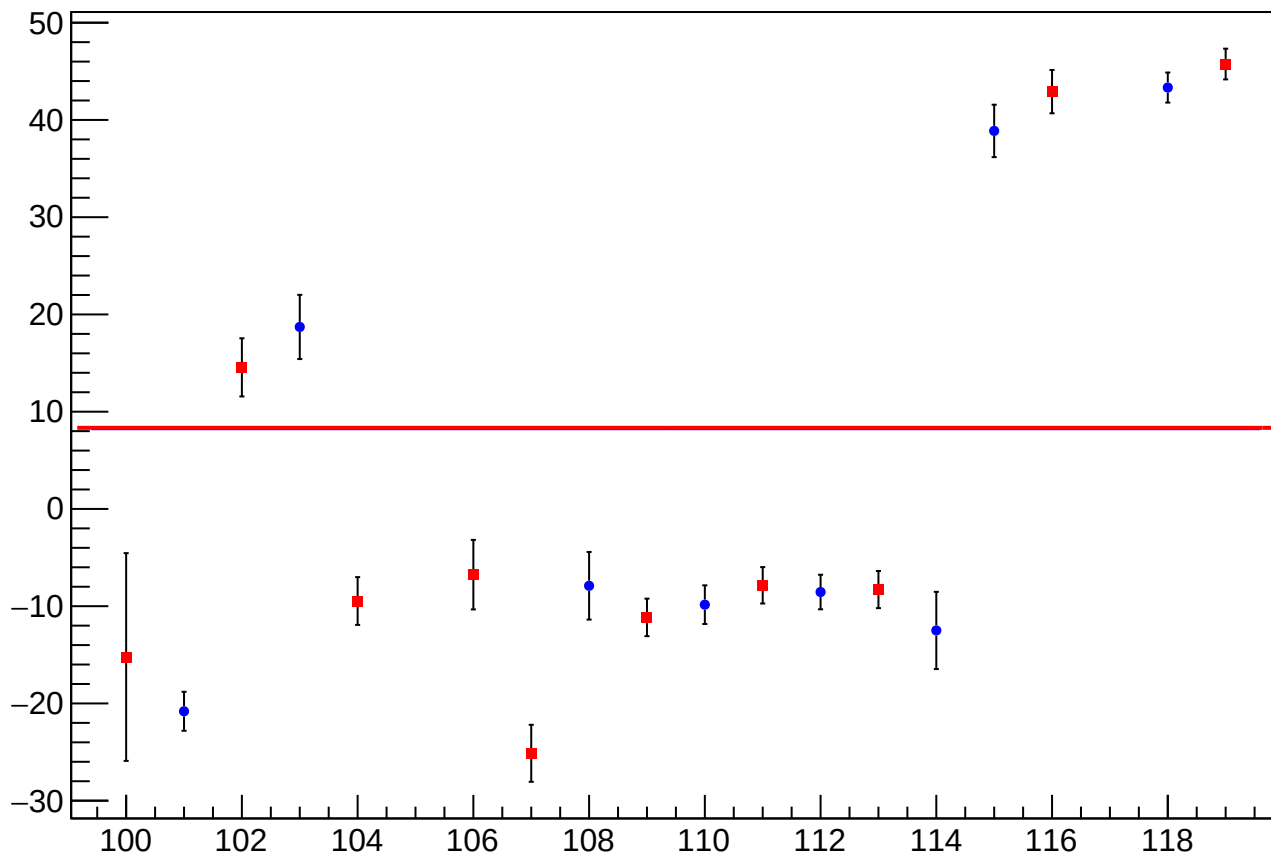
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -96.142+/-0.462  $\chi^2/\text{NDF}$ : 313.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 8.300+/-0.788  $\chi^2/\text{NDF}$ : 1084.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.341+/-0.723  $\chi^2/\text{NDF}$ : 1264.5/9

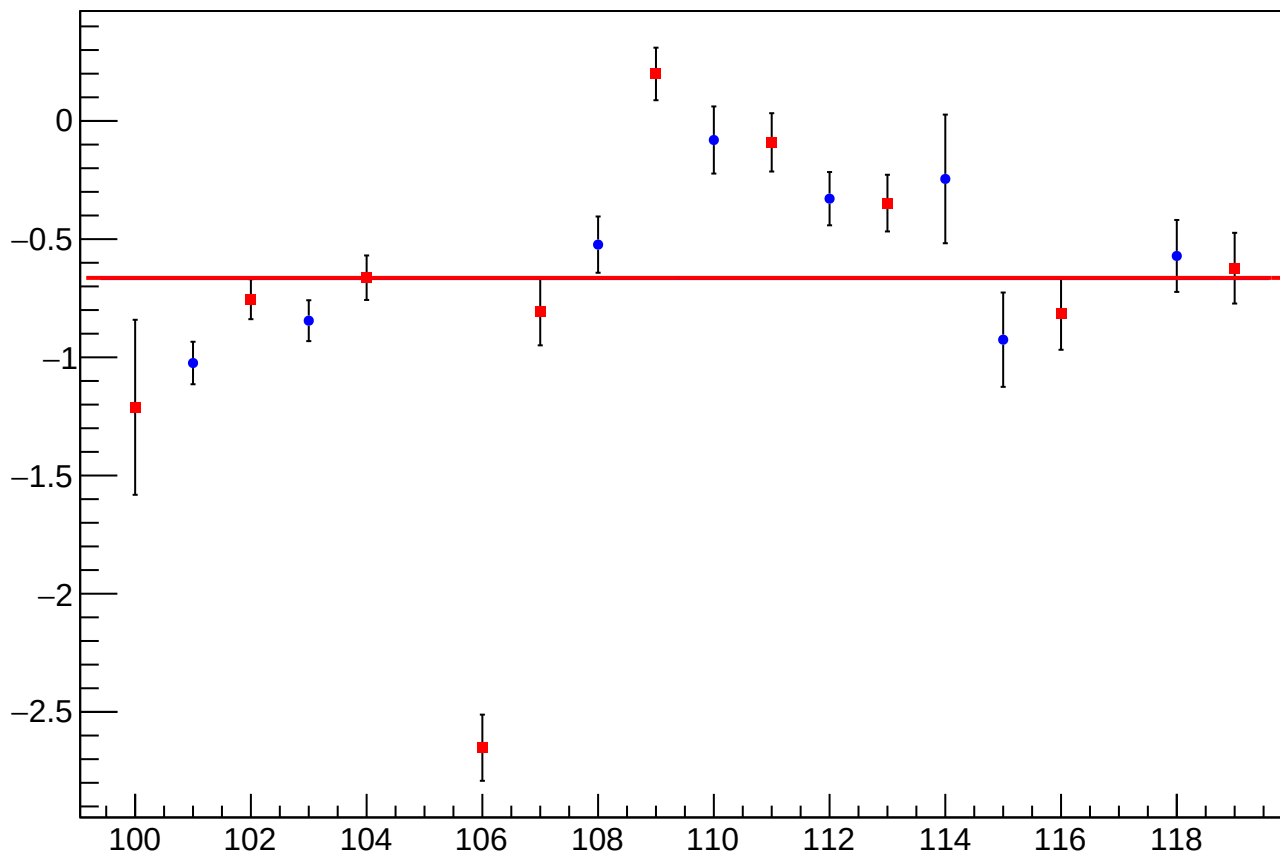
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8.322+/-0.533  $\chi^2/\text{NDF}$ : 2349.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_2468\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.665 \pm 0.043$   $\chi^2/\text{NDF}$ : 52.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.664 \pm 0.039$   $\chi^2/\text{NDF}$ : 295.9/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

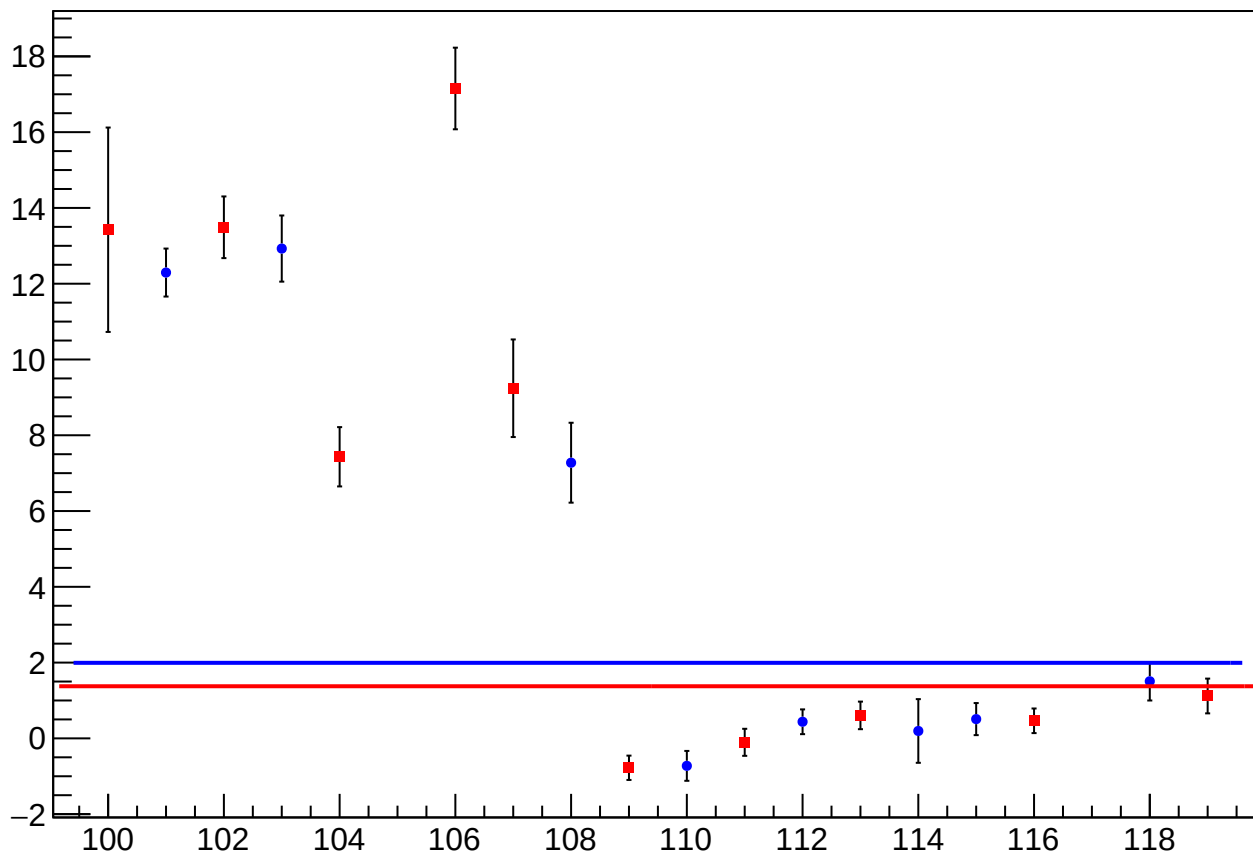
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.664 \pm 0.029$   $\chi^2/\text{NDF}$ : 347.9/17

- 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: 1.994 $\pm$ 0.179  $\chi^2$ /NDF: 534.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.376 $\pm$ 0.151  $\chi^2$ /NDF: 628.1/9

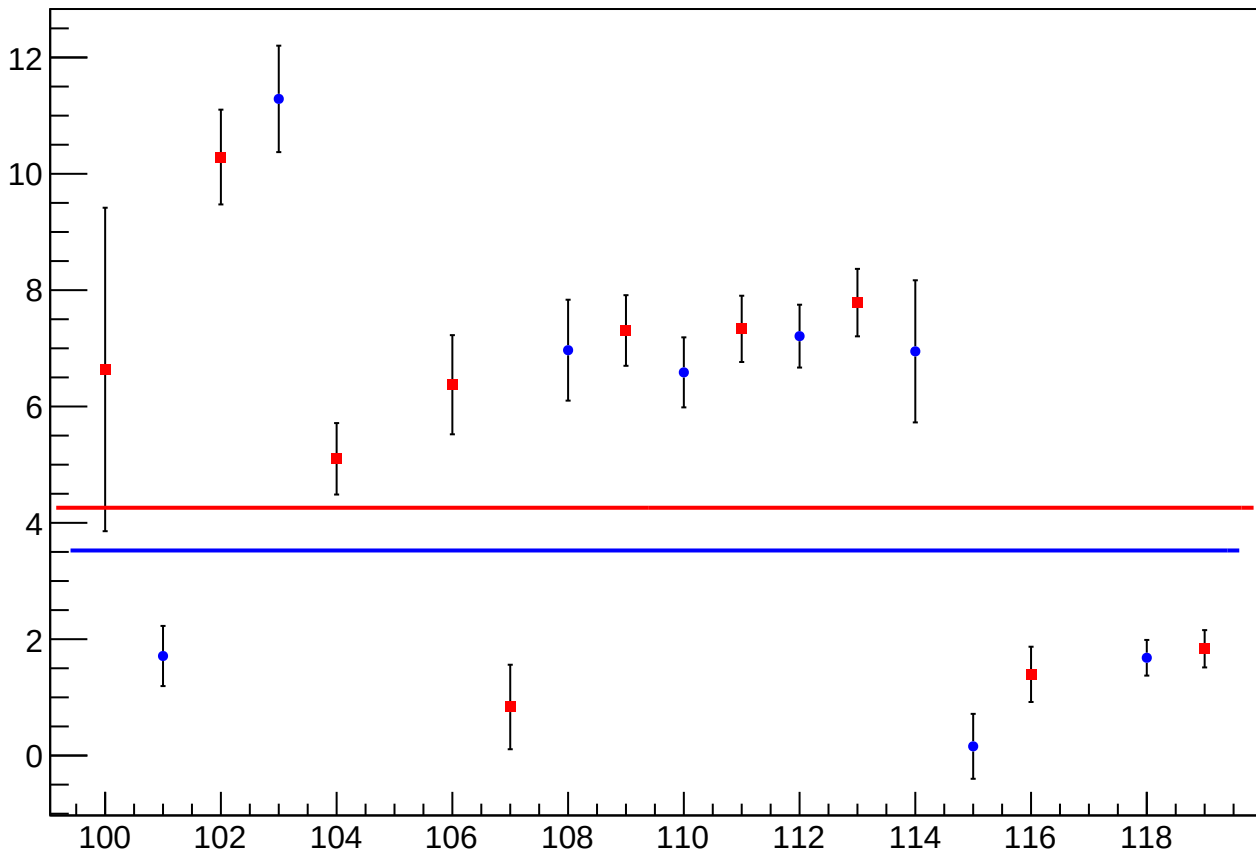
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.633 $\pm$ 0.115  $\chi^2$ /NDF: 1169.7/17

- 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: 3.525 $\pm$ 0.193  $\chi^2$ /NDF: 252.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.260 $\pm$ 0.181  $\chi^2$ /NDF: 270.6/9

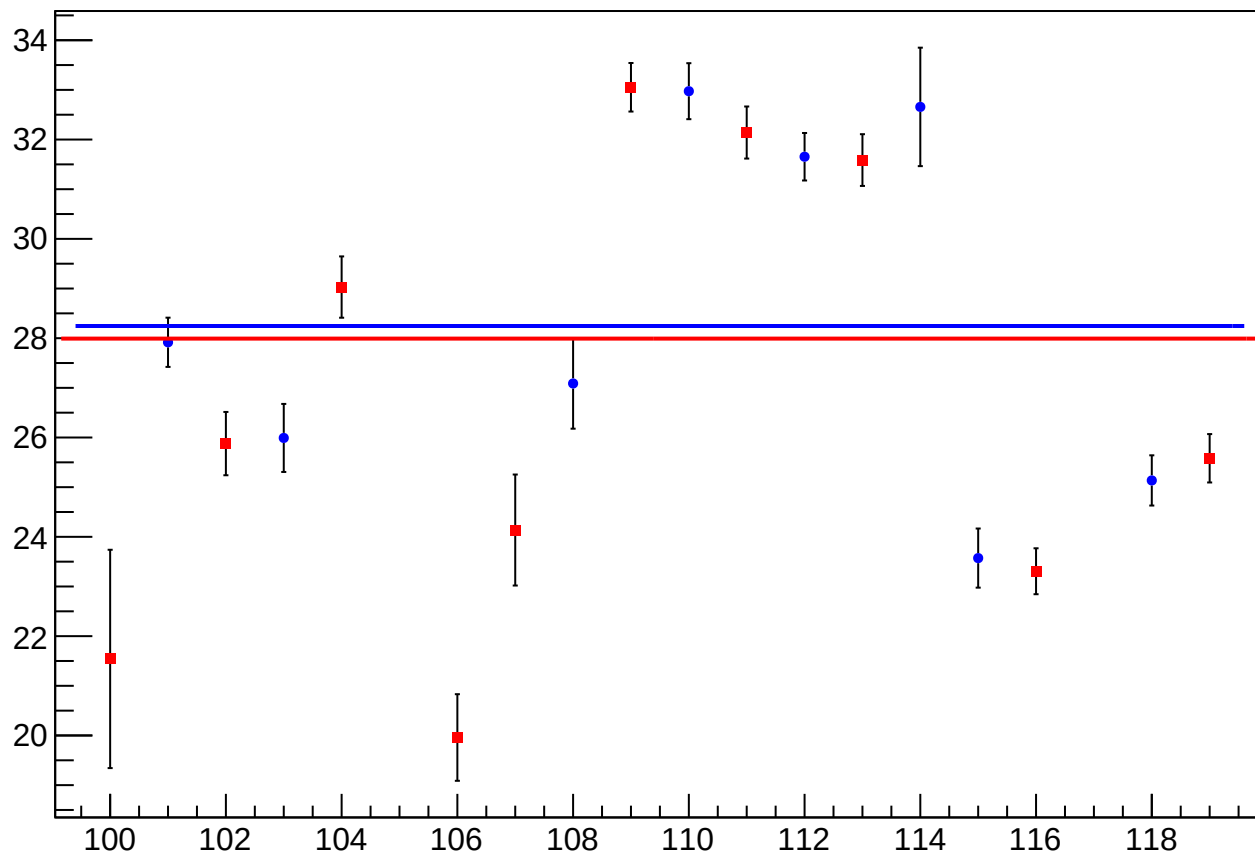
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.915 $\pm$ 0.132  $\chi^2$ /NDF: 531.3/17

- 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: 28.245 $\pm$ 0.211  $\chi^2$ /NDF: 247.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27.992 $\pm$ 0.190  $\chi^2$ /NDF: 463.7/9

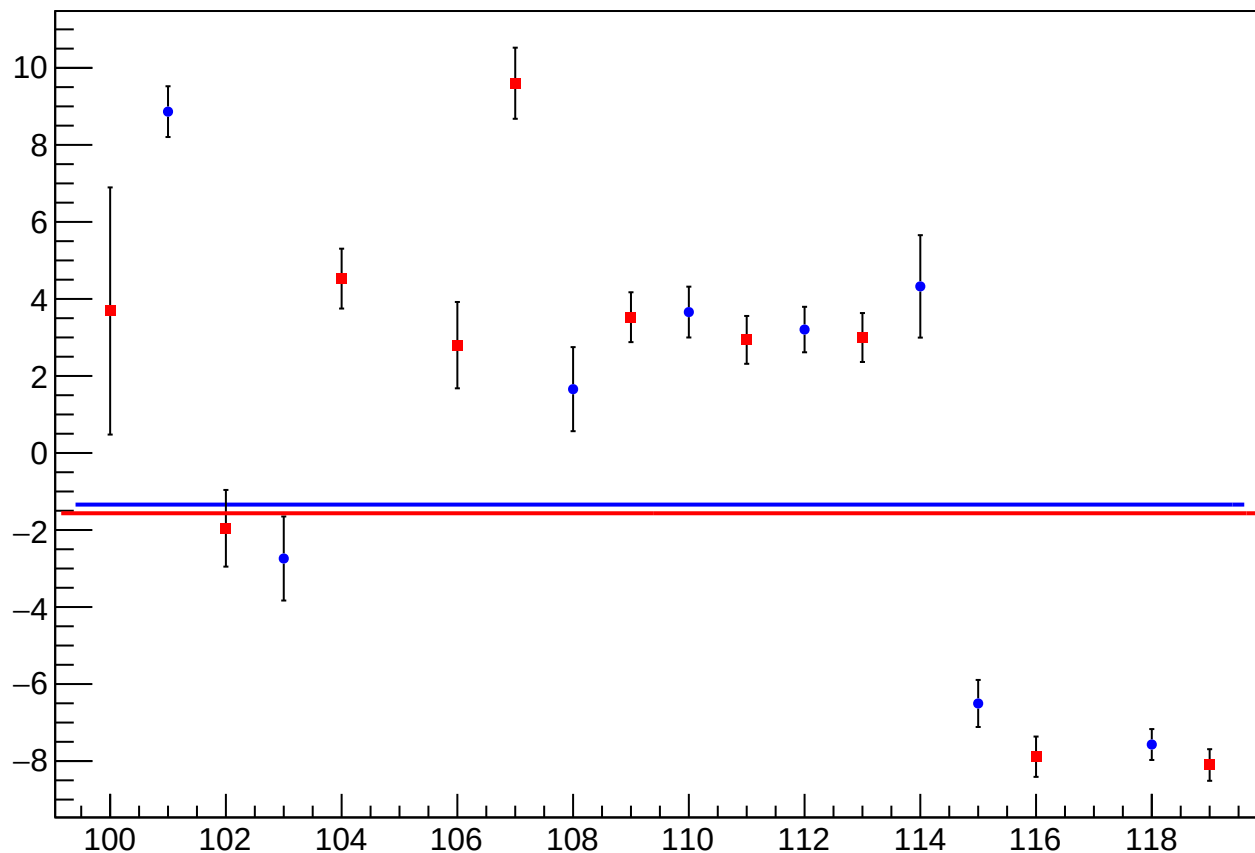
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28.105 $\pm$ 0.141  $\chi^2$ /NDF: 711.7/17

- 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: -1.340 $\pm$ 0.232  $\chi^2$ /NDF: 696.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.565 $\pm$ 0.214  $\chi^2$ /NDF: 791.2/9

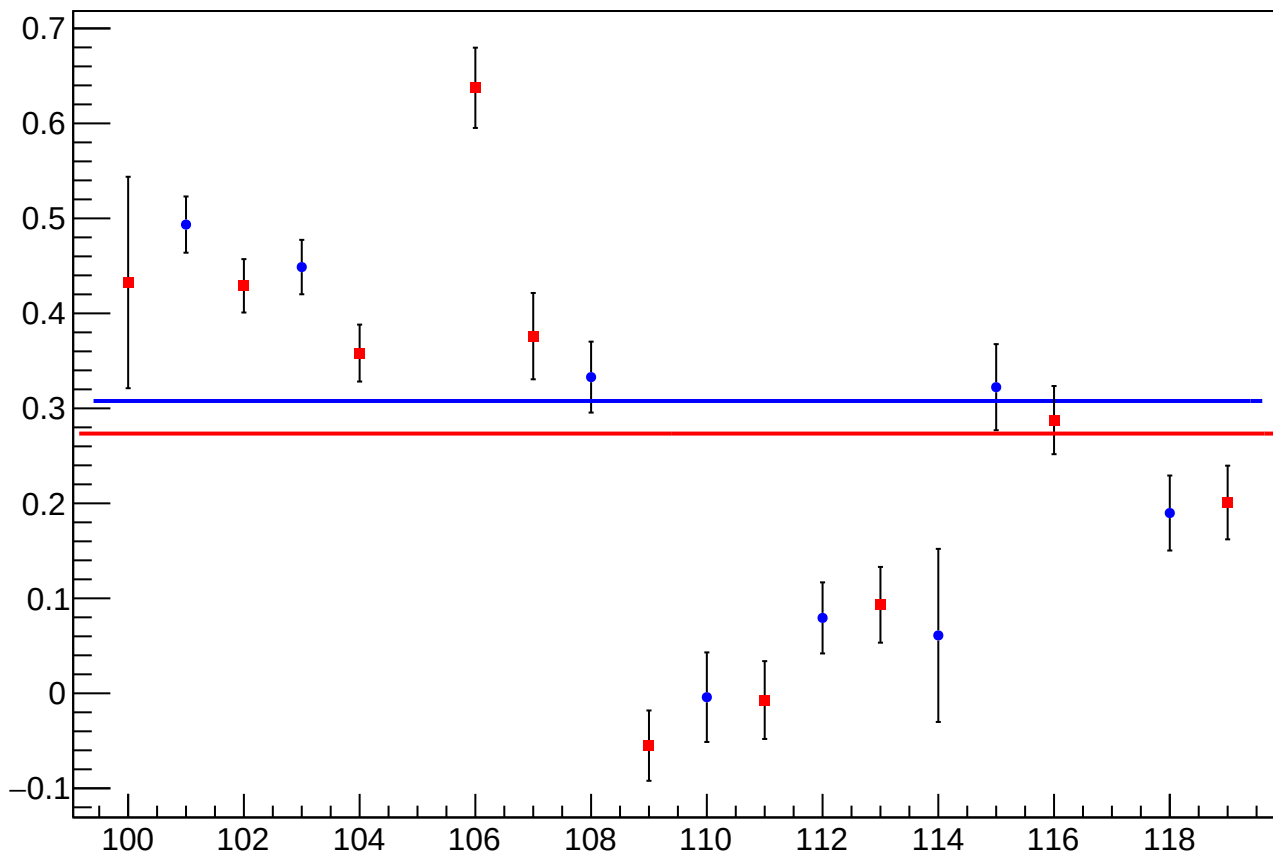
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.462 $\pm$ 0.157  $\chi^2$ /NDF: 1487.7/17

- 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: 0.308 $\pm$ 0.013  $\chi^2$ /NDF: 161.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.273 $\pm$ 0.012  $\chi^2$ /NDF: 269.7/9

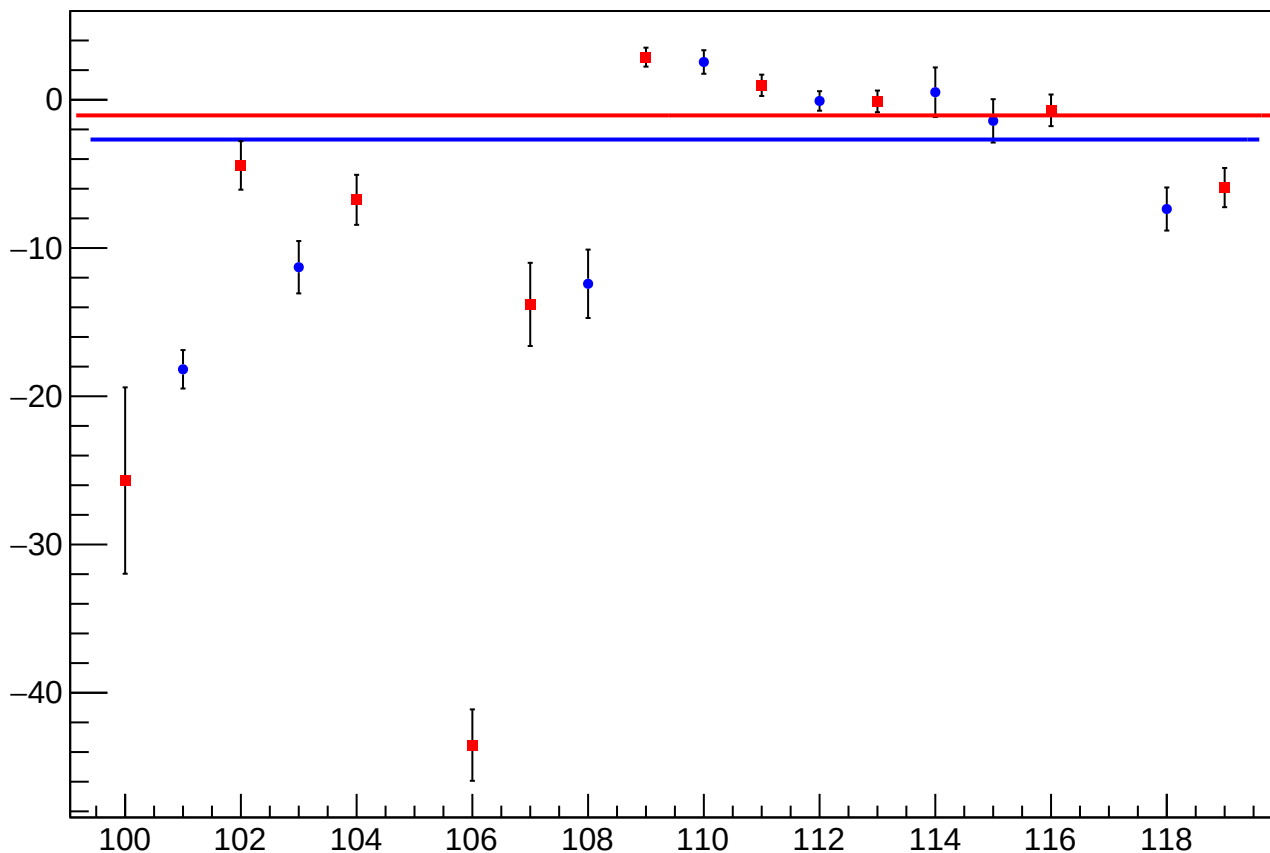
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.289 $\pm$ 0.009  $\chi^2$ /NDF: 434.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -2.681+/-0.399  $\chi^2/\text{NDF}$ : 258.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.054+/-0.338  $\chi^2/\text{NDF}$ : 423.8/9

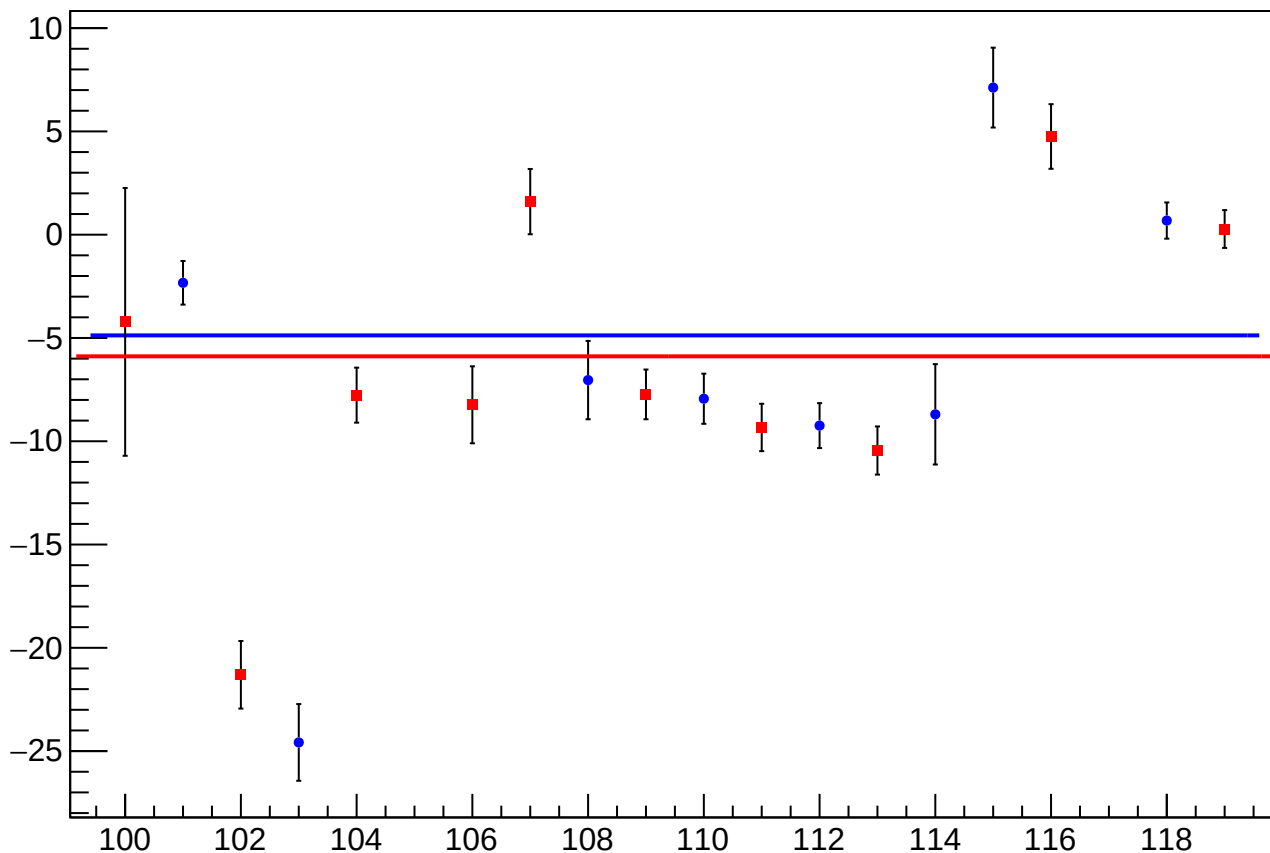
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.735+/-0.258  $\chi^2/\text{NDF}$ : 691.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -4.875+/-0.460  $\chi^2$ /NDF: 223.4/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -5.889+/-0.429  $\chi^2$ /NDF: 233.2/9

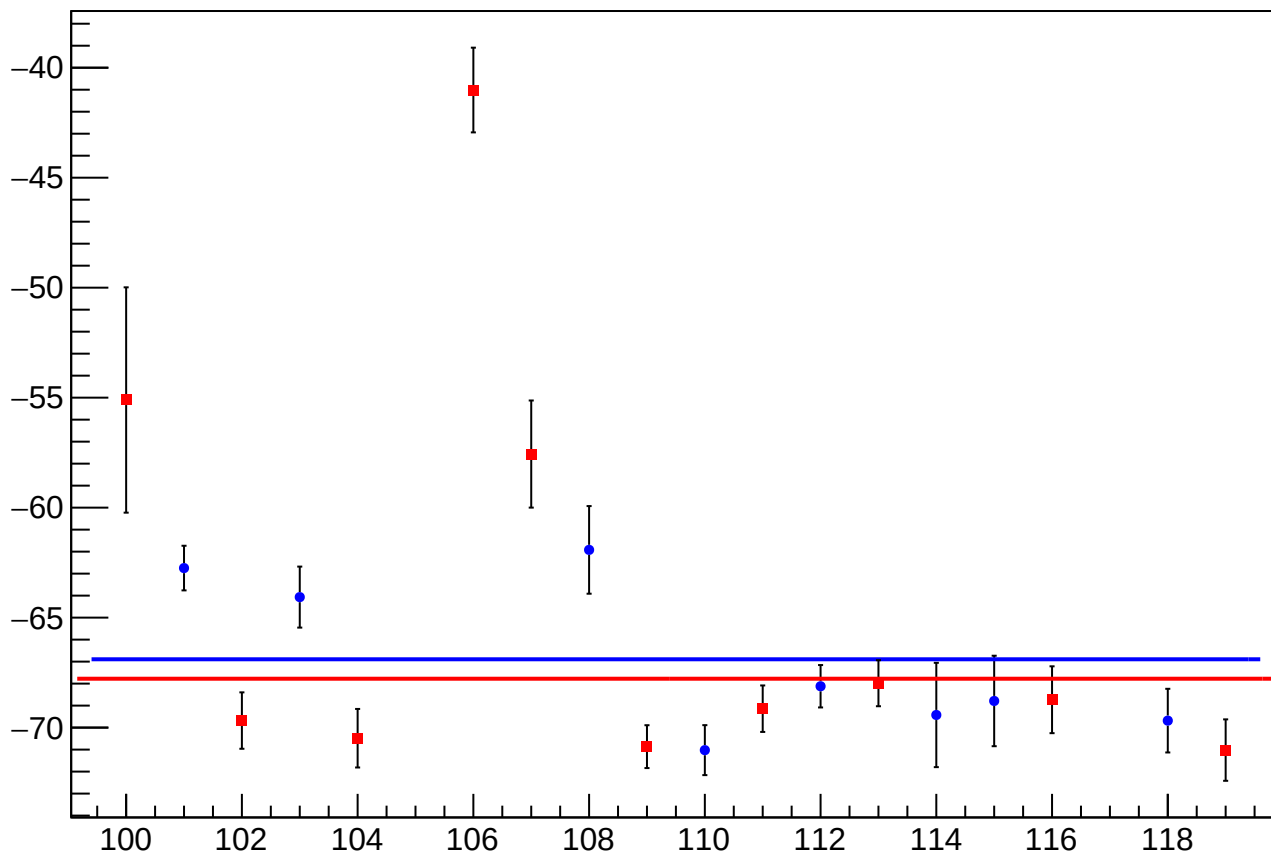
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -5.418+/-0.314  $\chi^2$ /NDF: 459.2/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -66.894 $\pm$ 0.472  $\chi^2$ /NDF: 47.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -67.778 $\pm$ 0.428  $\chi^2$ /NDF: 240.7/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

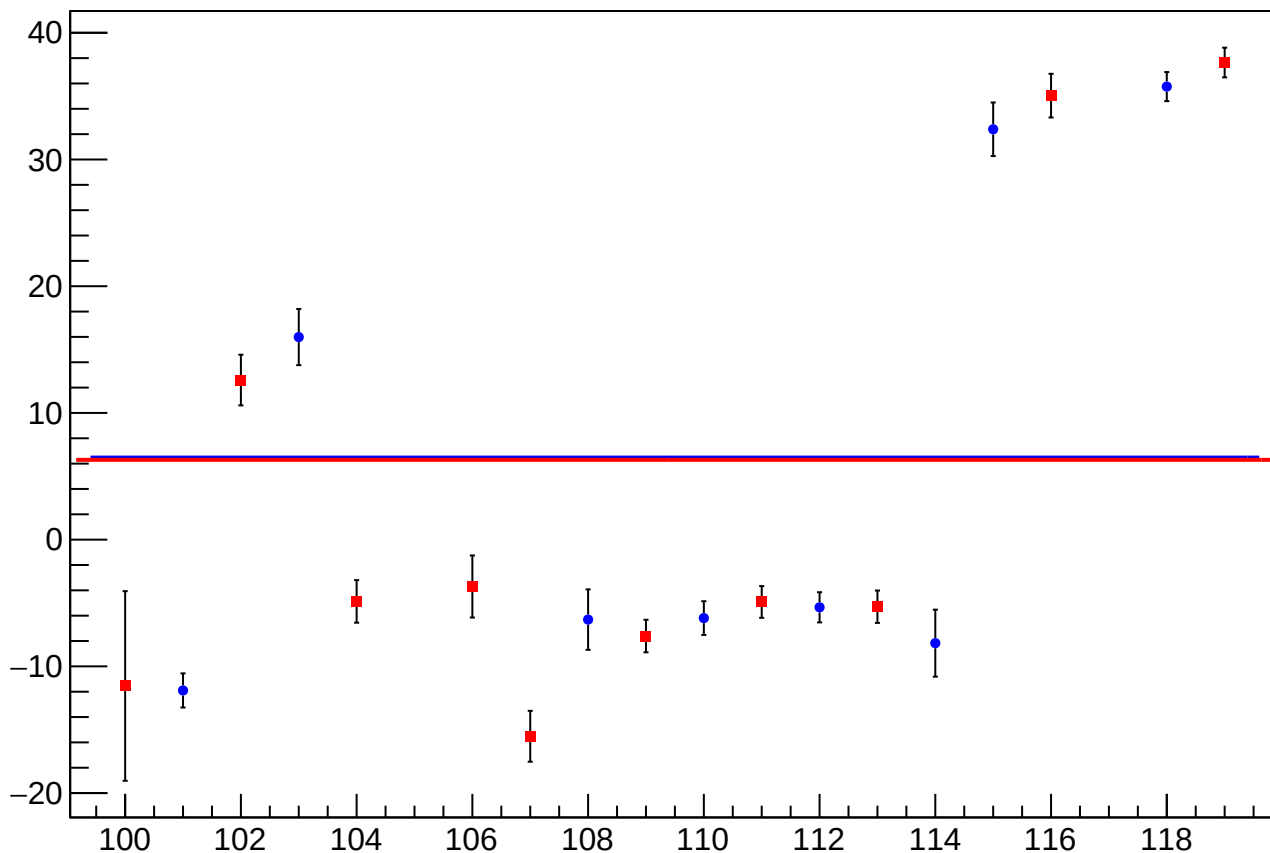
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -67.379 $\pm$ 0.317  $\chi^2$ /NDF: 290.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 6.475+/-0.548  $\chi^2/\text{NDF}$ : 1255.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6.298+/-0.503  $\chi^2/\text{NDF}$ : 1467.2/9

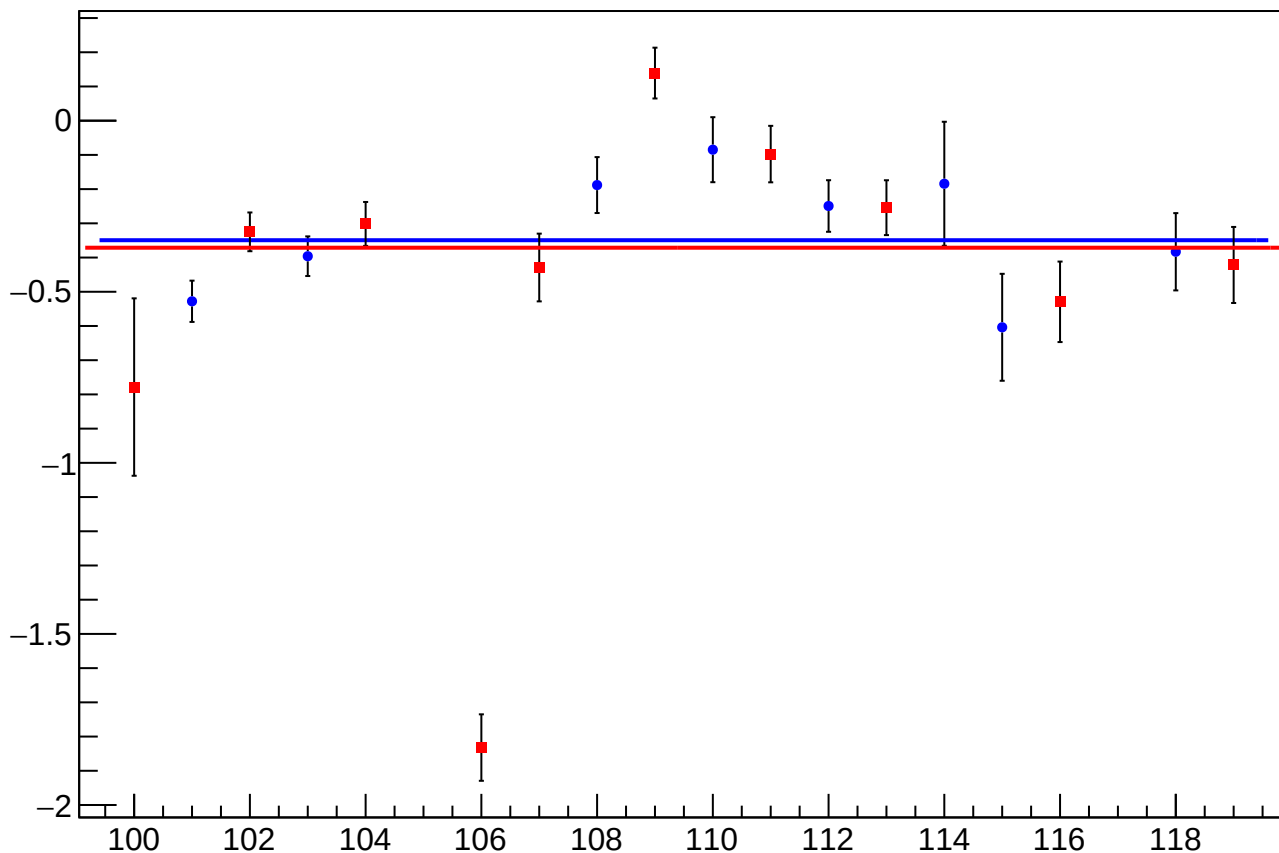
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.379+/-0.370  $\chi^2/\text{NDF}$ : 2722.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.349 \pm 0.029$   $\chi^2/\text{NDF}$ : 26.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.371 \pm 0.027$   $\chi^2/\text{NDF}$ : 293.3/9

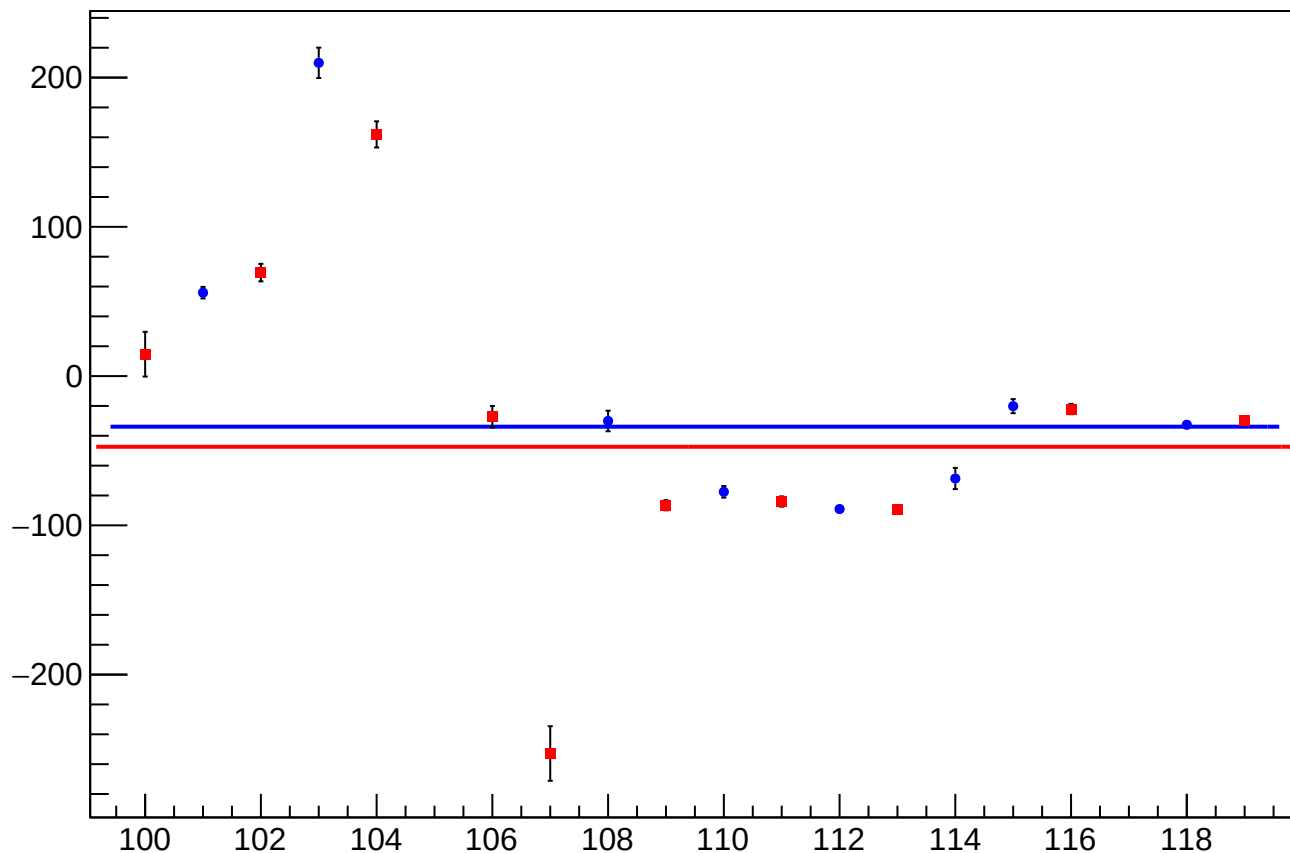
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.361 \pm 0.020$   $\chi^2/\text{NDF}$ : 320.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug



Right In:  $-33.904 \pm 1.540$   $\chi^2/\text{NDF}$ : 1583.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-47.352 \pm 1.379$   $\chi^2/\text{NDF}$ : 1611.0/9

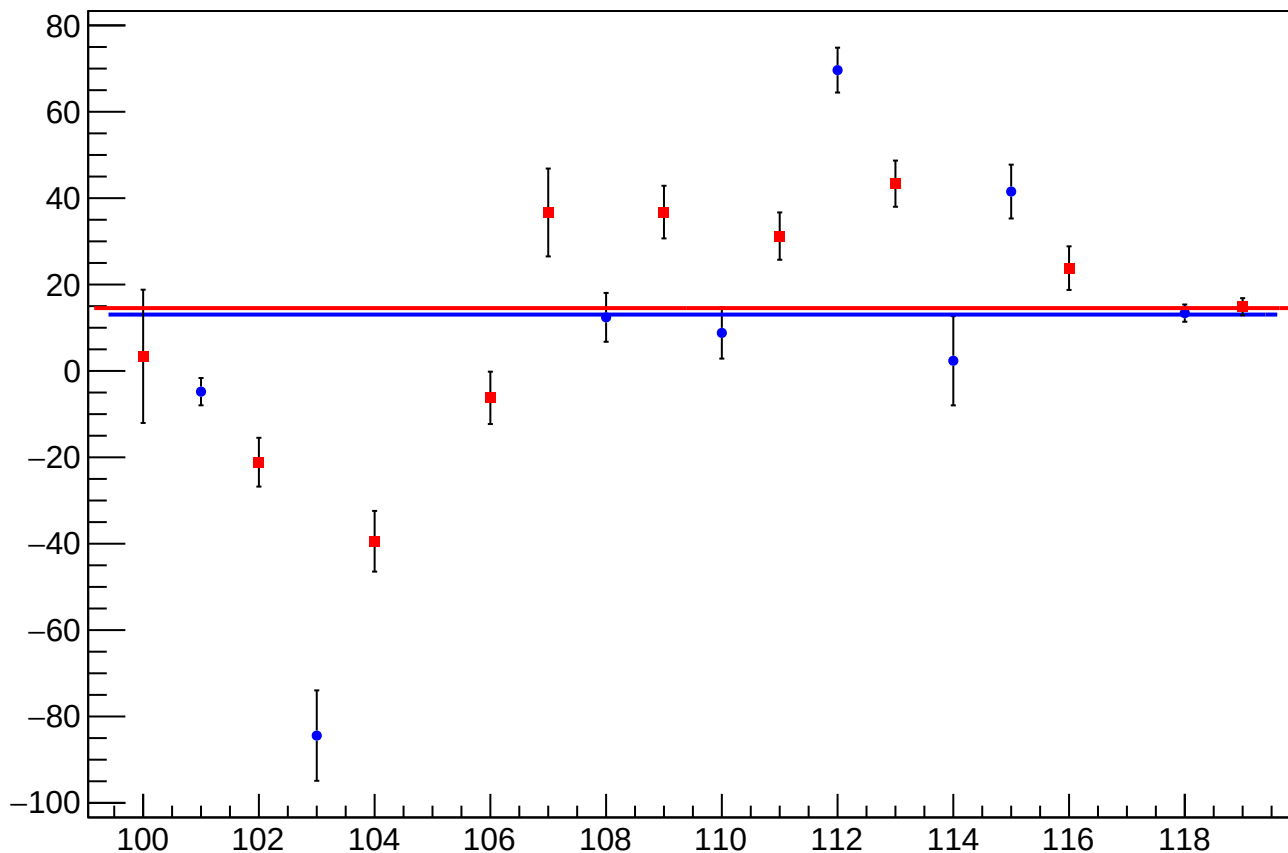
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-41.371 \pm 1.027$   $\chi^2/\text{NDF}$ : 3236.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug



Right In: 13.051+/-1.426  $\chi^2/\text{NDF}$ : 259.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14.546+/-1.441  $\chi^2/\text{NDF}$ : 170.9/9

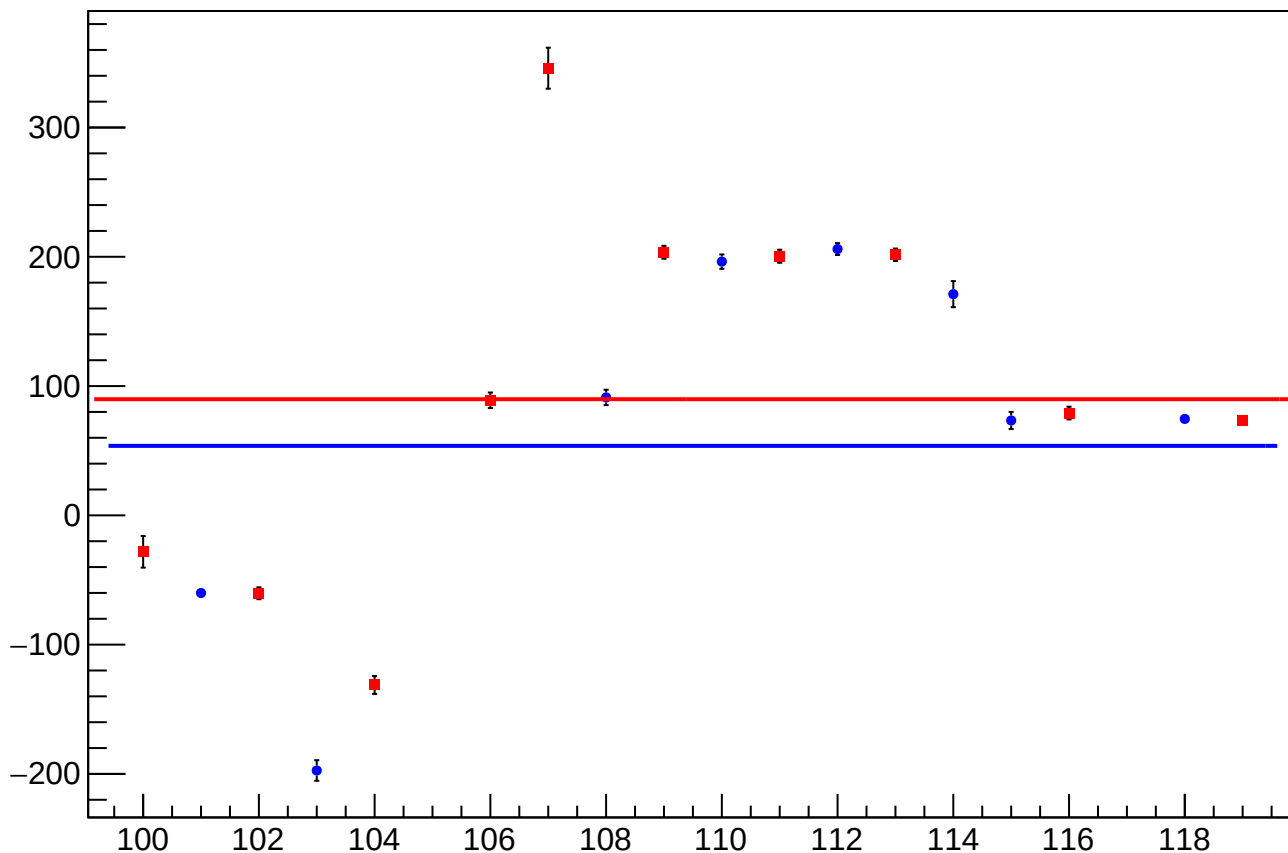
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.791+/-1.013  $\chi^2/\text{NDF}$ : 431.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug



Right In: 53.750 $\pm$ 1.673  $\chi^2$ /NDF: 4388.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 89.839 $\pm$ 1.628  $\chi^2$ /NDF: 4020.6/9

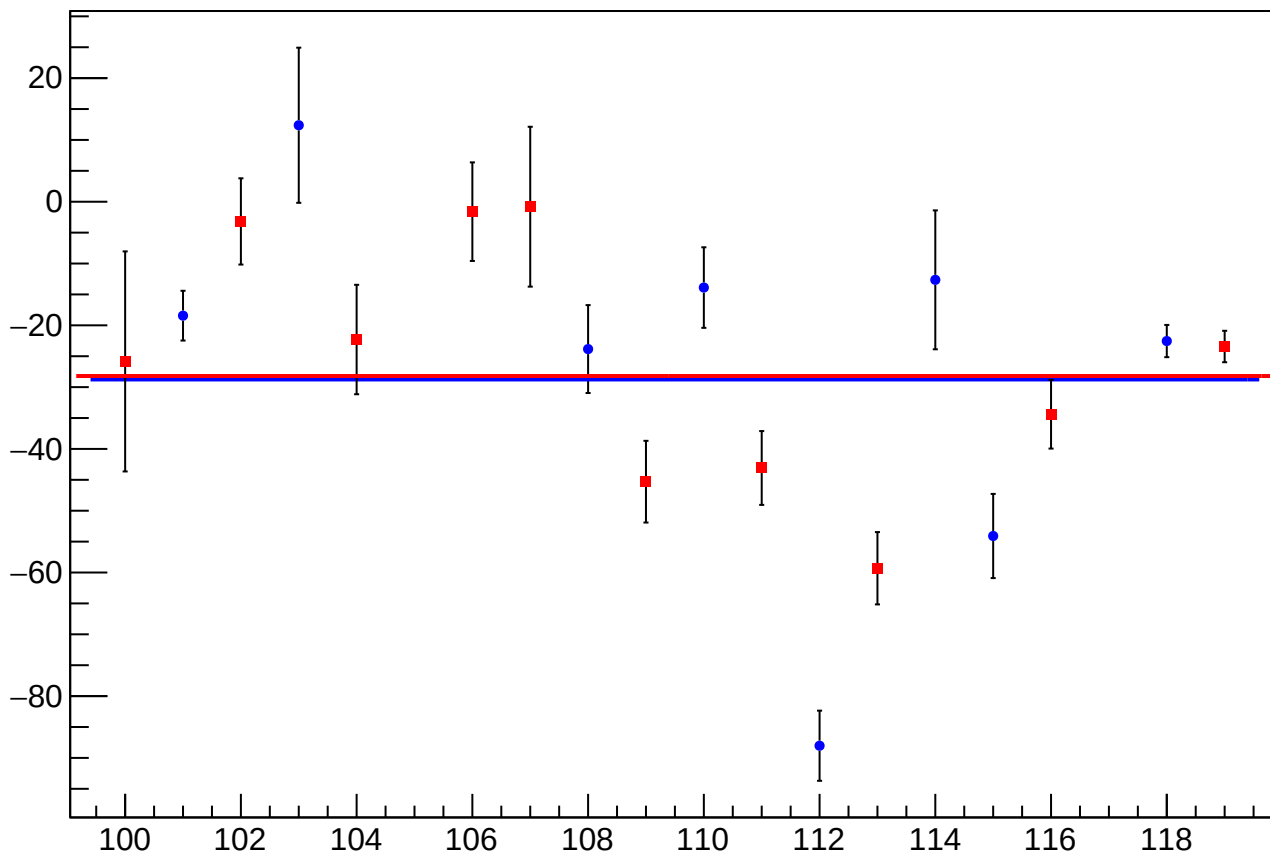
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 72.285 $\pm$ 1.167  $\chi^2$ /NDF: 8648.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug



Right In: -28.759 $\pm$ 1.771  $\chi^2$ /NDF: 153.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -28.203 $\pm$ 1.754  $\chi^2$ /NDF: 74.8/9

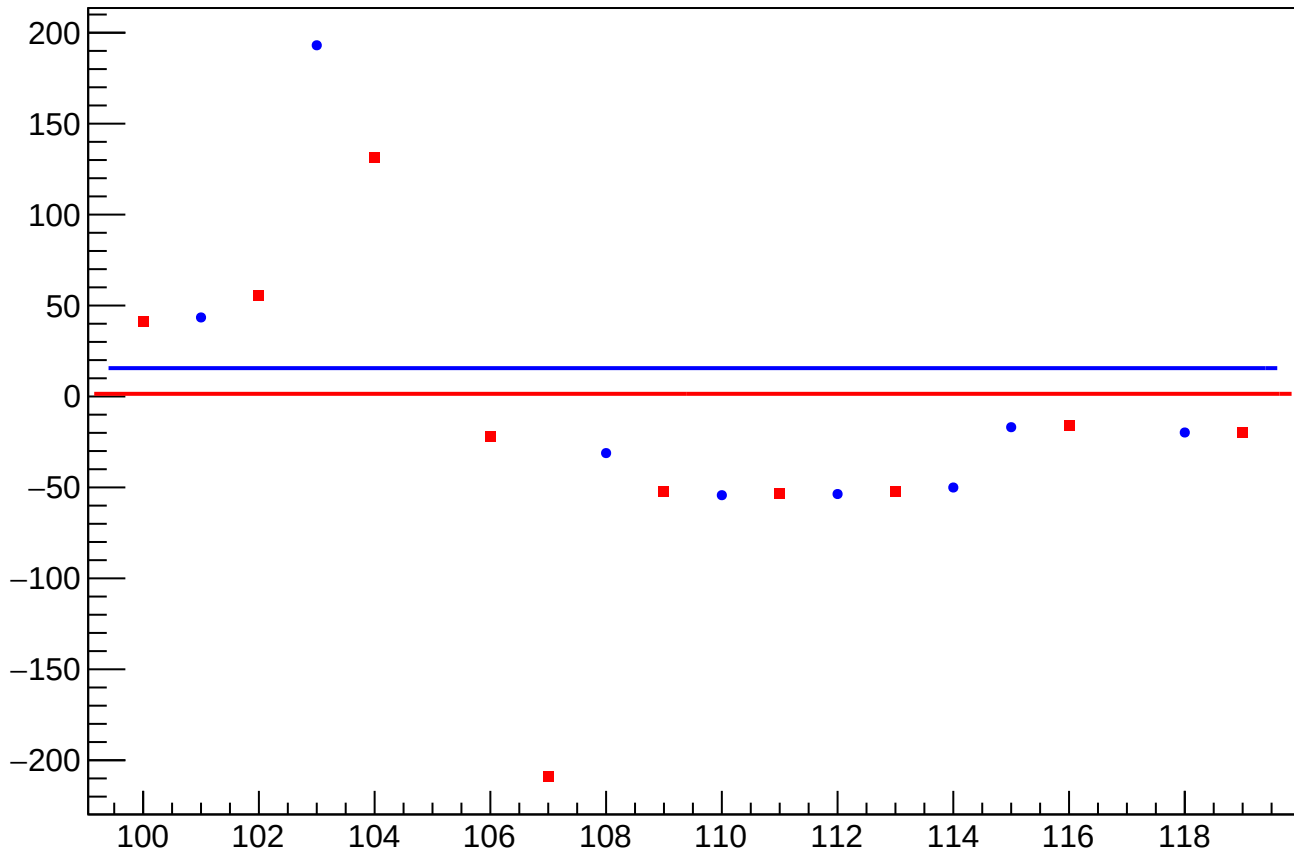
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -28.478 $\pm$ 1.246  $\chi^2$ /NDF: 228.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug



Right In: 15.582 $\pm$ 0.105  $\chi^2$ /NDF: 430543.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.460 $\pm$ 0.102  $\chi^2$ /NDF: 410600.5/9

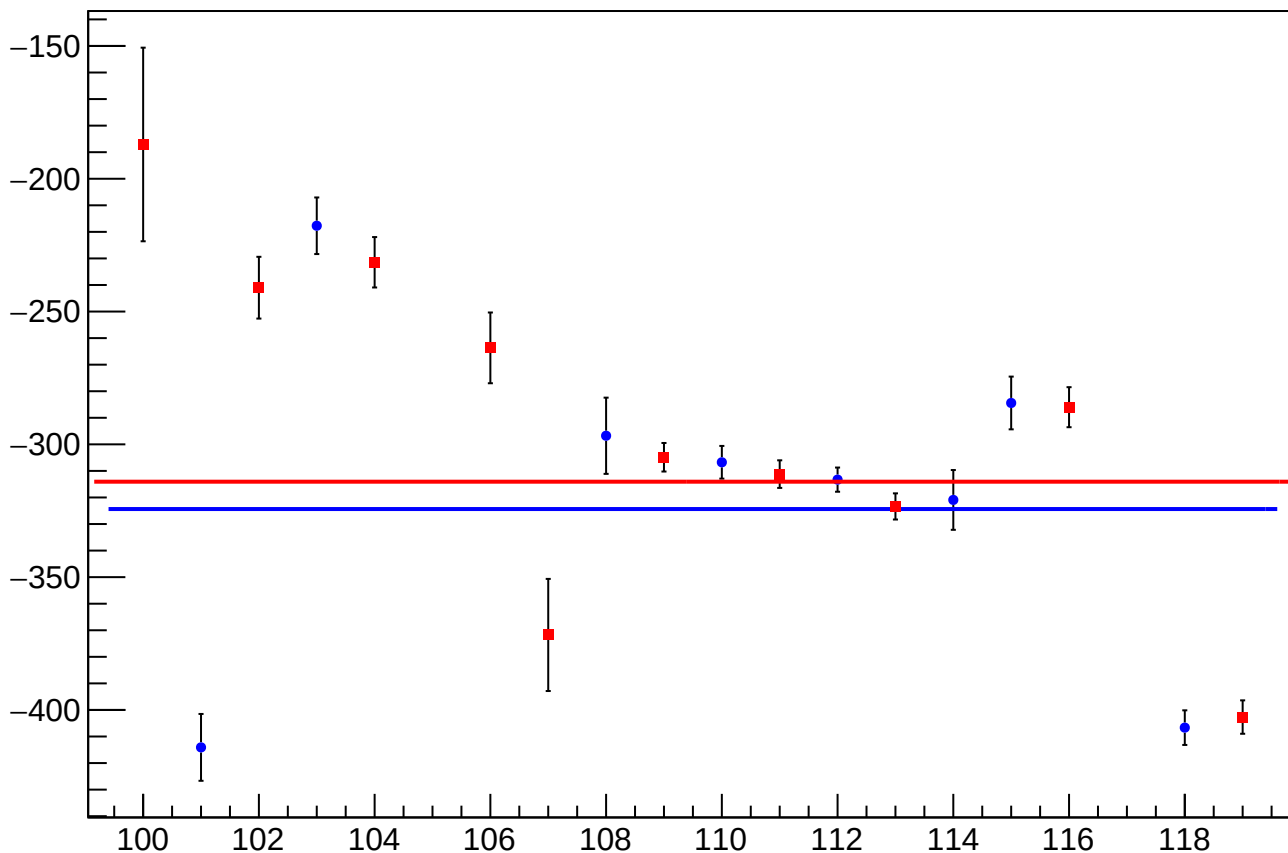
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8.263 $\pm$ 0.073  $\chi^2$ /NDF: 850442.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug



Right In:  $-324.356 \pm 2.710$   $\chi^2/\text{NDF}$ : 344.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-314.060 \pm 2.338$   $\chi^2/\text{NDF}$ : 368.3/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

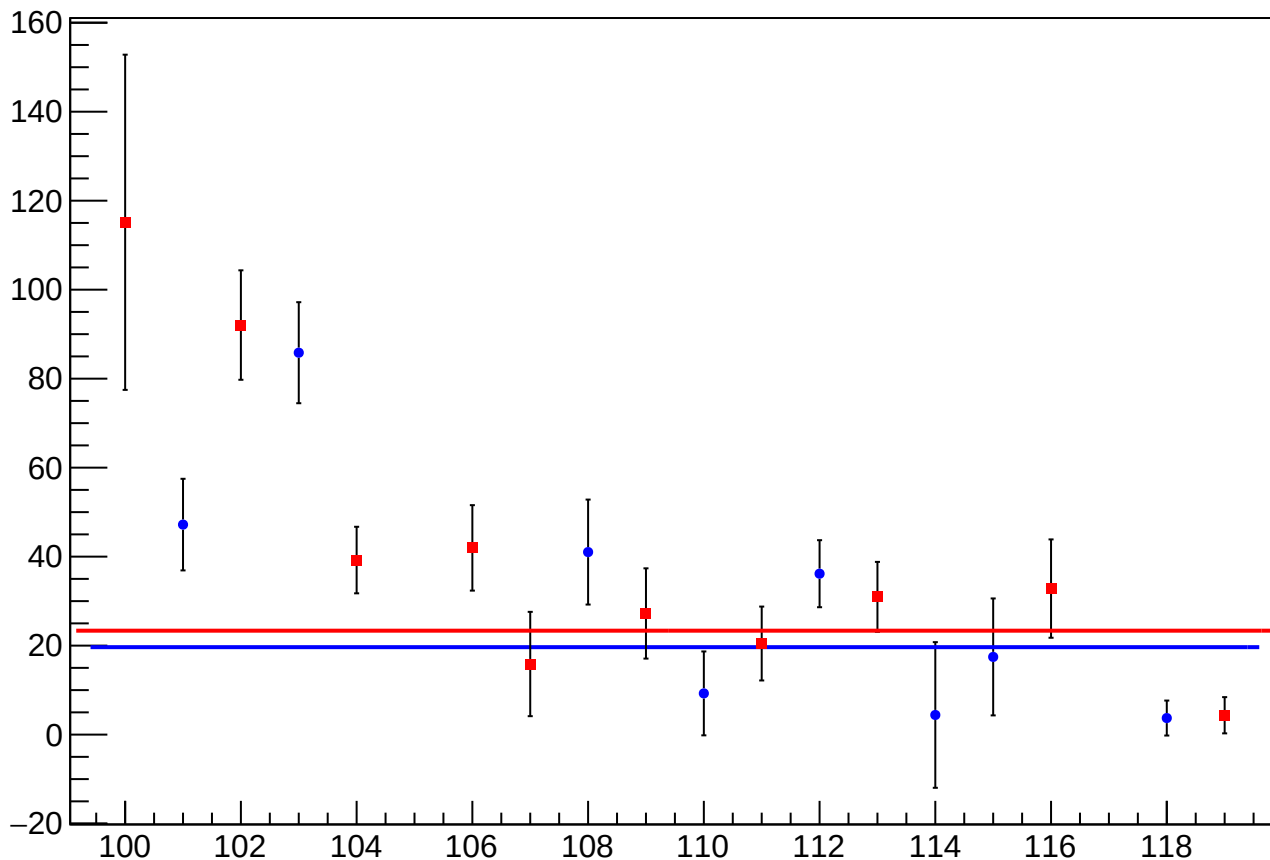
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-318.454 \pm 1.770$   $\chi^2/\text{NDF}$ : 721.2/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl2\_diff\_bpm4aY\_slope vs Slug



Right In: 19.654 $\pm$ 2.801  $\chi^2$ /NDF: 67.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 23.358 $\pm$ 2.563  $\chi^2$ /NDF: 69.5/9

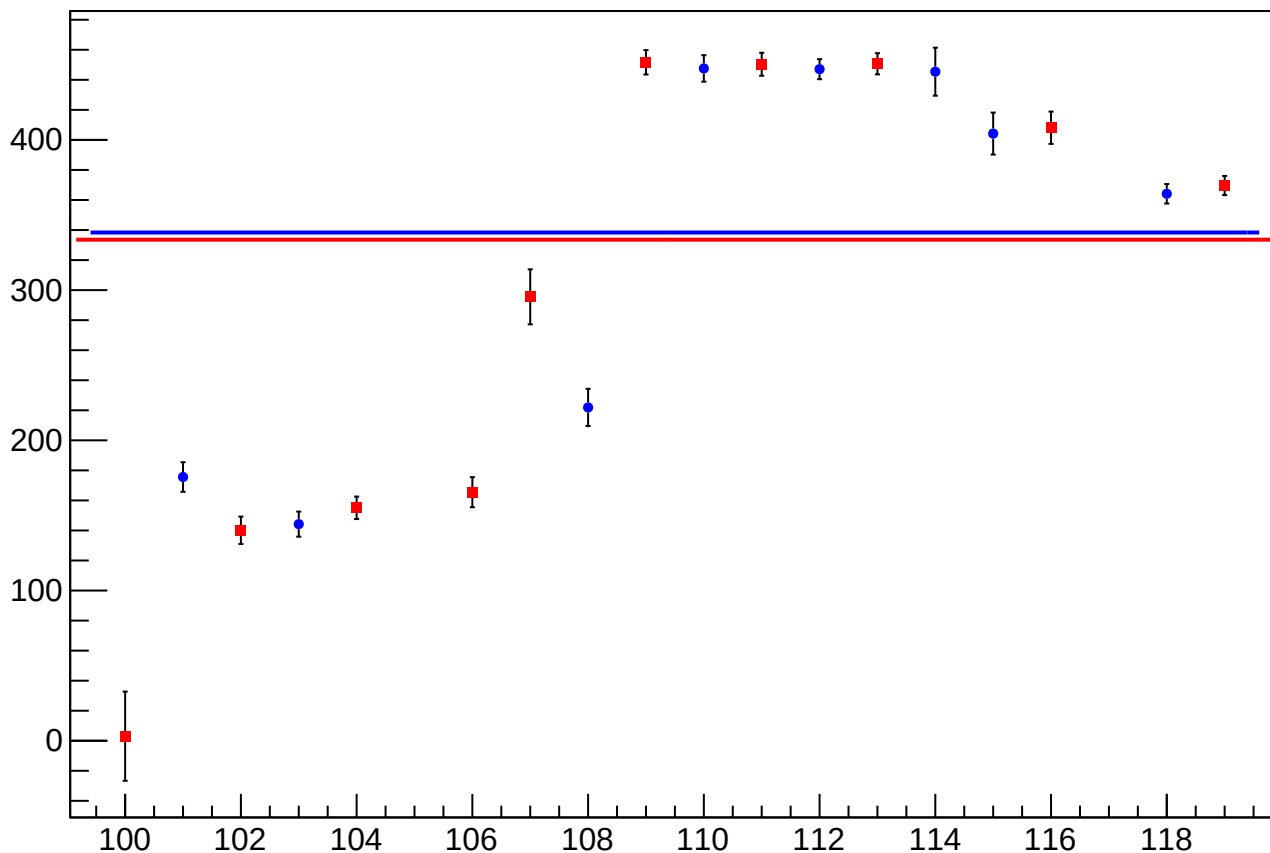
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.670 $\pm$ 1.891  $\chi^2$ /NDF: 138.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug



Right In: 338.365+/-3.174  $\chi^2/\text{NDF}$ : 1403.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 333.586+/-2.778  $\chi^2/\text{NDF}$ : 2228.9/9

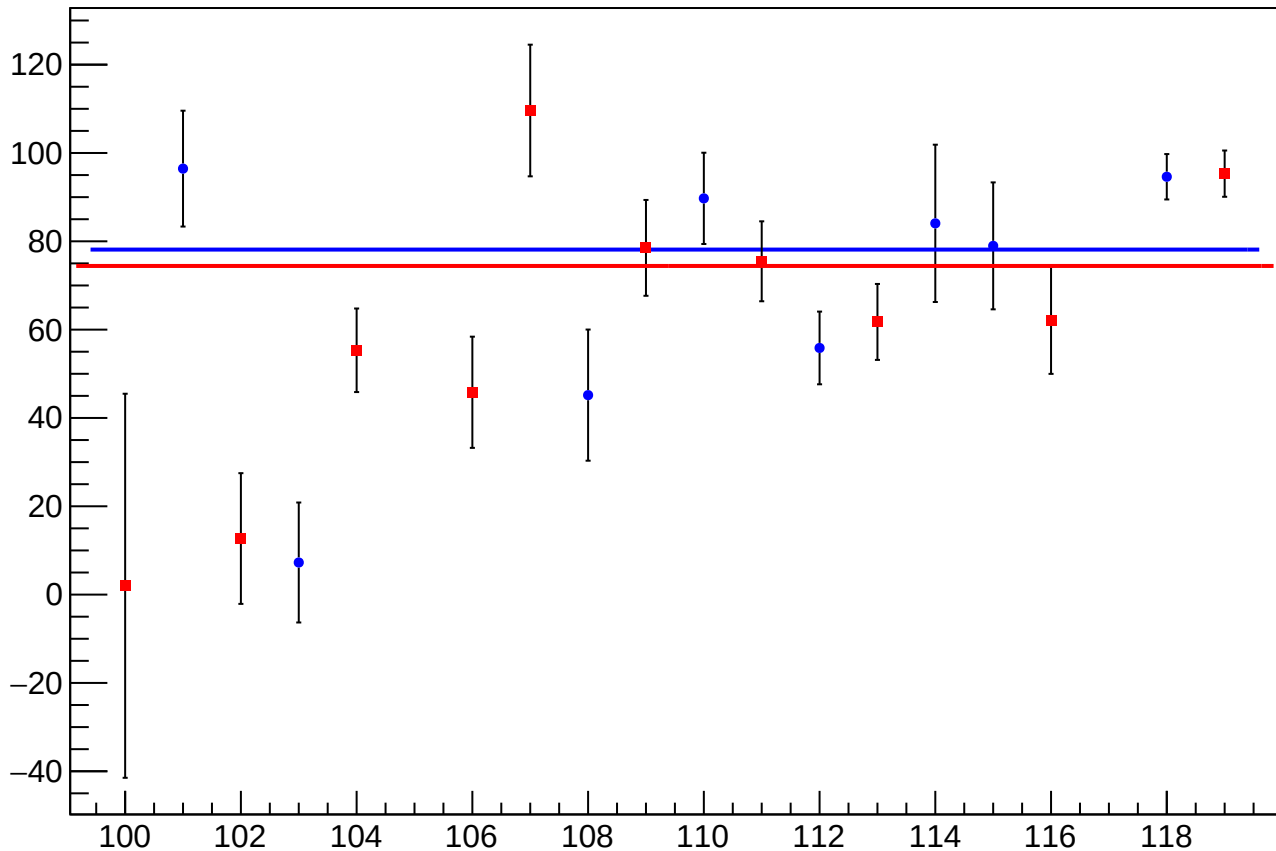
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 335.659+/-2.091  $\chi^2/\text{NDF}$ : 3633.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug



Right In: 78.127 $\pm$ 3.415  $\chi^2$ /NDF: 53.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 74.418 $\pm$ 3.094  $\chi^2$ /NDF: 54.2/9

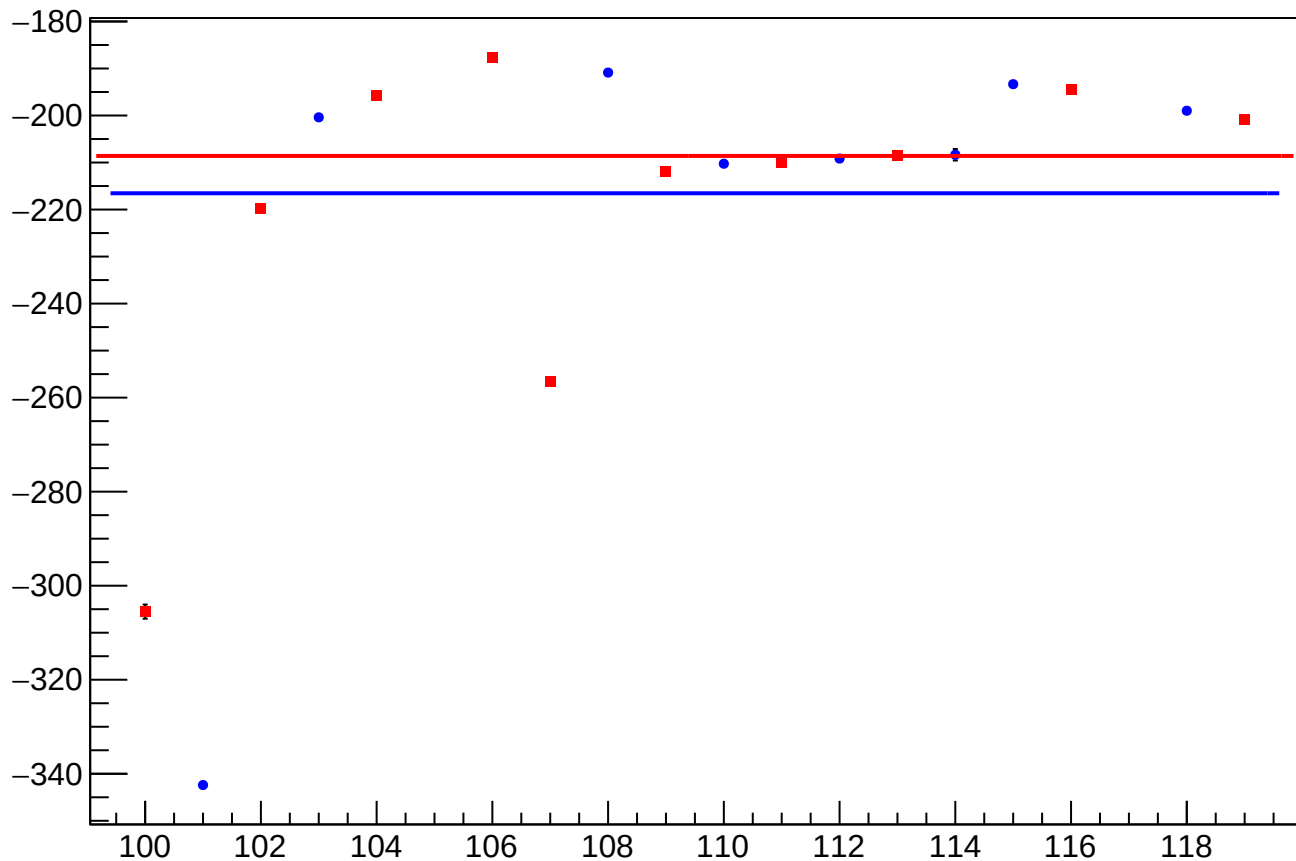
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 76.090 $\pm$ 2.293  $\chi^2$ /NDF: 108.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug



Right In:  $-216.537 \pm 0.197$   $\chi^2/\text{NDF}: 52422.4/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-208.598 \pm 0.172$   $\chi^2/\text{NDF}: 12327.7/9$

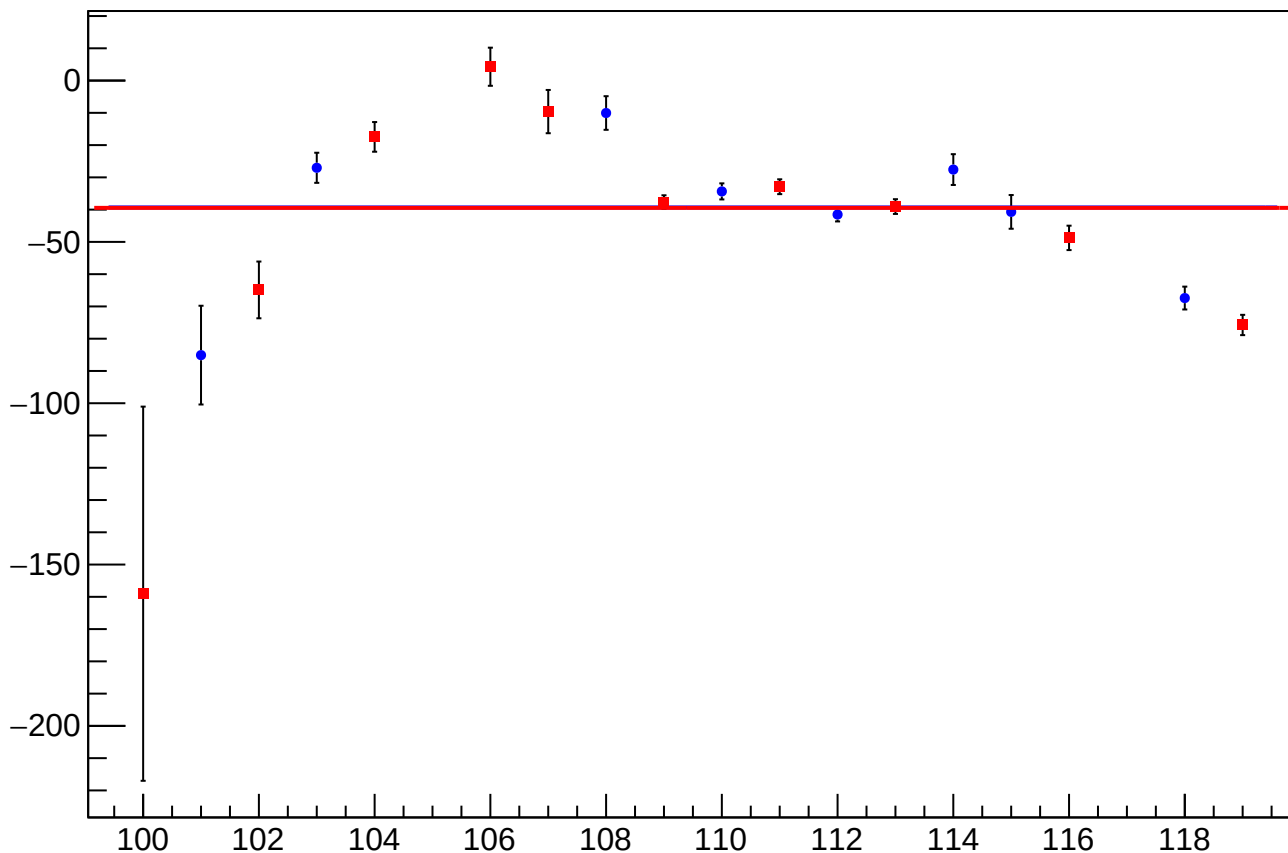
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-212.031 \pm 0.129$   $\chi^2/\text{NDF}: 65675.3/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug



Right In:  $-39.326 \pm 1.264$   $\chi^2/\text{NDF}: 121.5/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-39.452 \pm 1.059$   $\chi^2/\text{NDF}: 258.3/9$

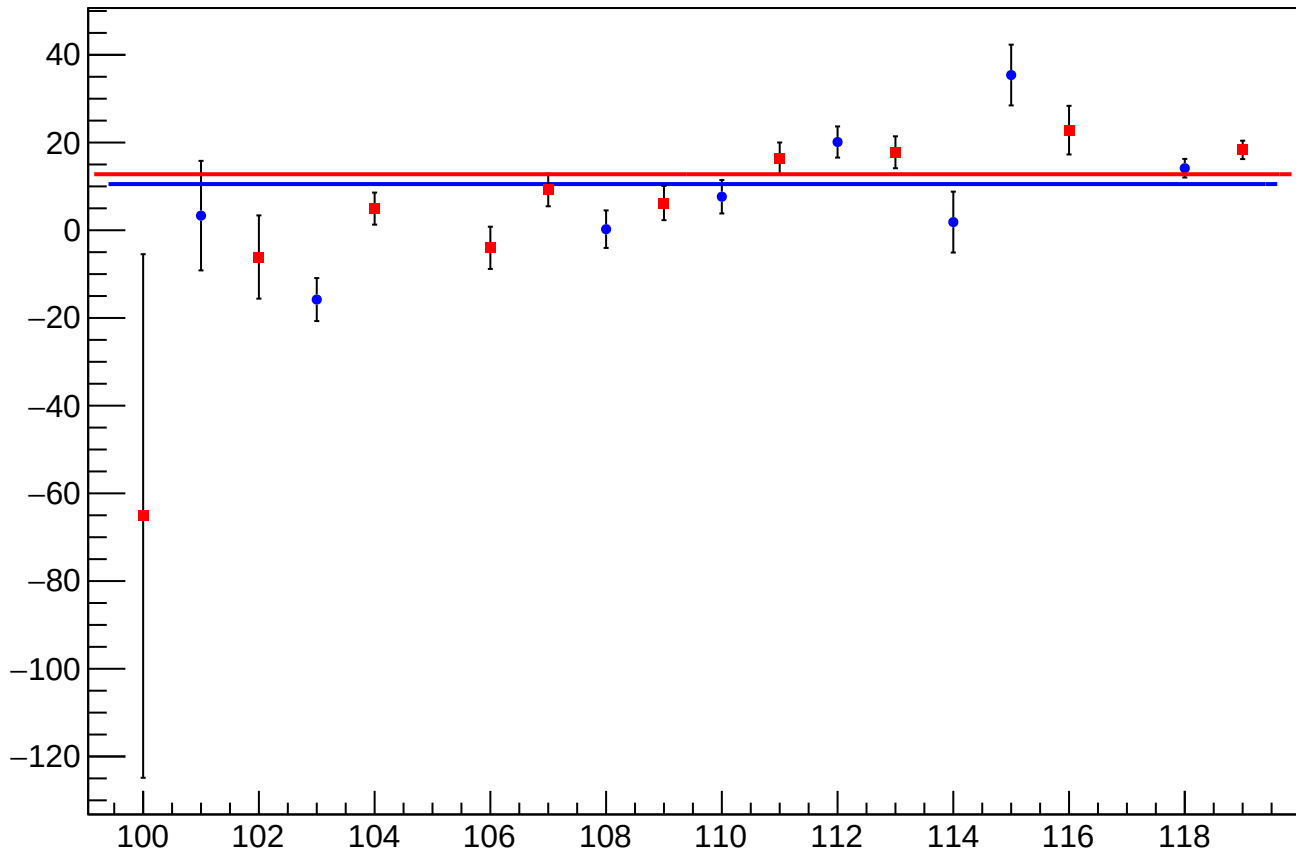
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-39.400 \pm 0.812$   $\chi^2/\text{NDF}: 379.8/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug



Right In: 10.530 $\pm$ 1.395  $\chi^2$ /NDF: 60.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 12.777 $\pm$ 1.216  $\chi^2$ /NDF: 39.3/9

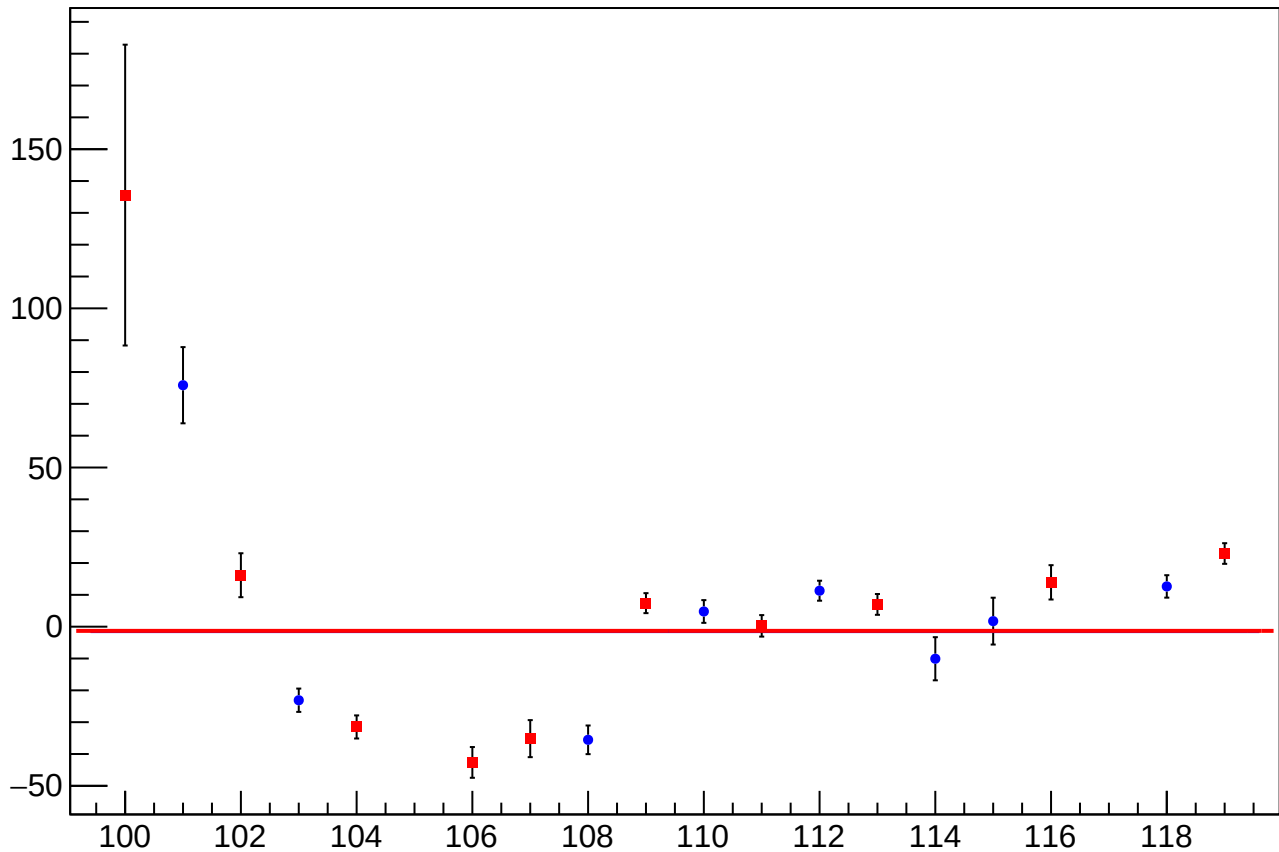
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.807 $\pm$ 0.917  $\chi^2$ /NDF: 101.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug



Right In: -1.386+/-1.522  $\chi^2/\text{NDF}$ : 171.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.318+/-1.311  $\chi^2/\text{NDF}$ : 269.5/9

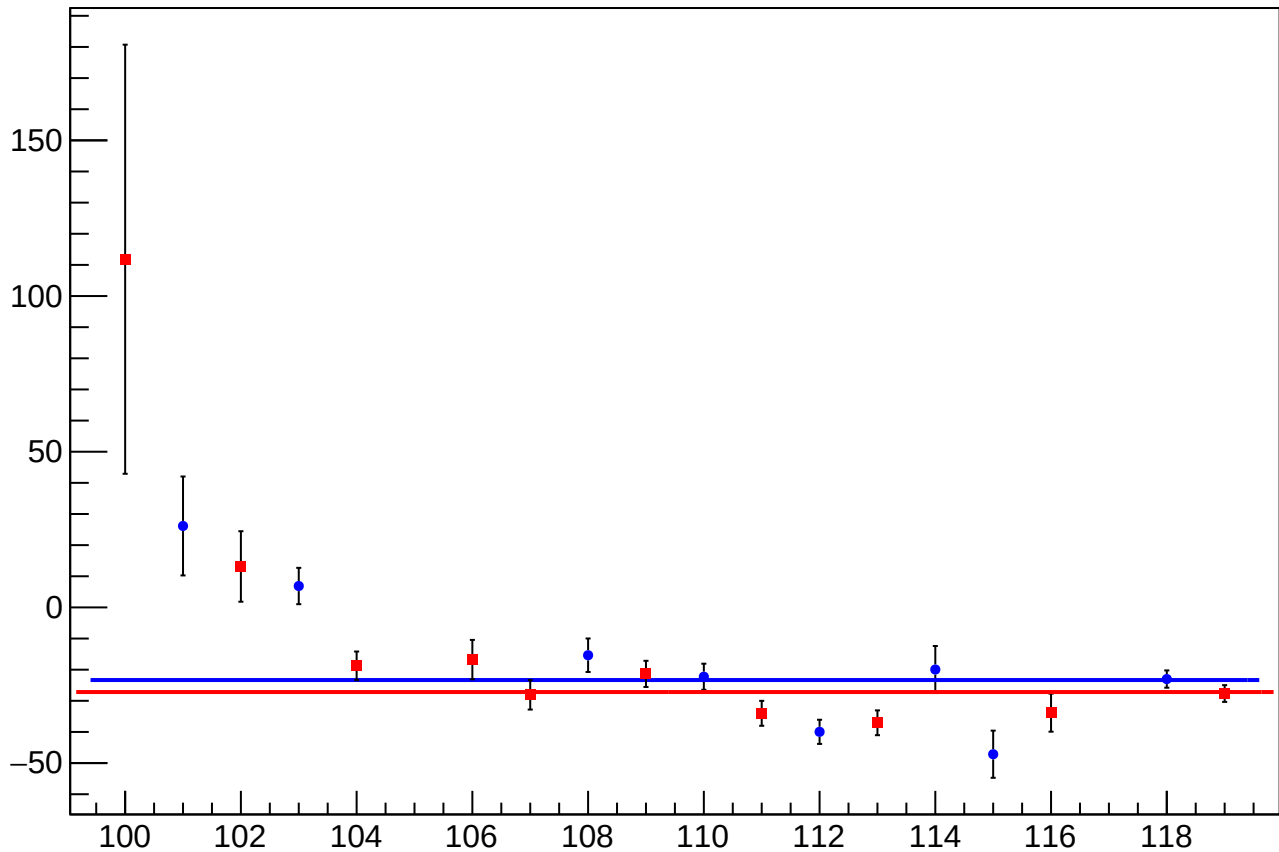
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.347+/-0.993  $\chi^2/\text{NDF}$ : 440.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug



Right In: -23.329 $\pm$ 1.675  $\chi^2$ /NDF: 67.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -27.180 $\pm$ 1.456  $\chi^2$ /NDF: 35.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

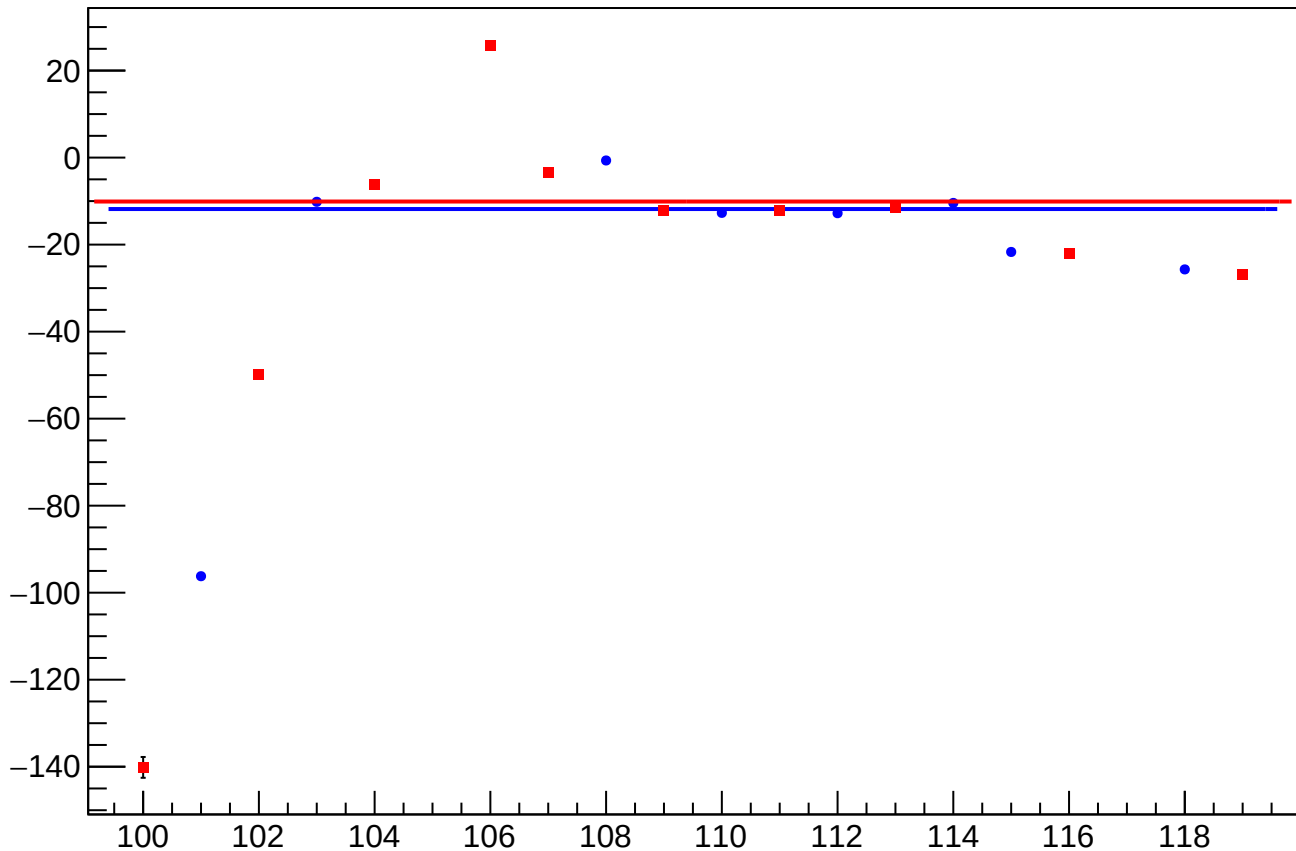
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -25.523 $\pm$ 1.099  $\chi^2$ /NDF: 105.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug



Right In: -11.824+/-0.090  $\chi^2/\text{NDF}$ : 20913.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10.097+/-0.081  $\chi^2/\text{NDF}$ : 51479.6/9

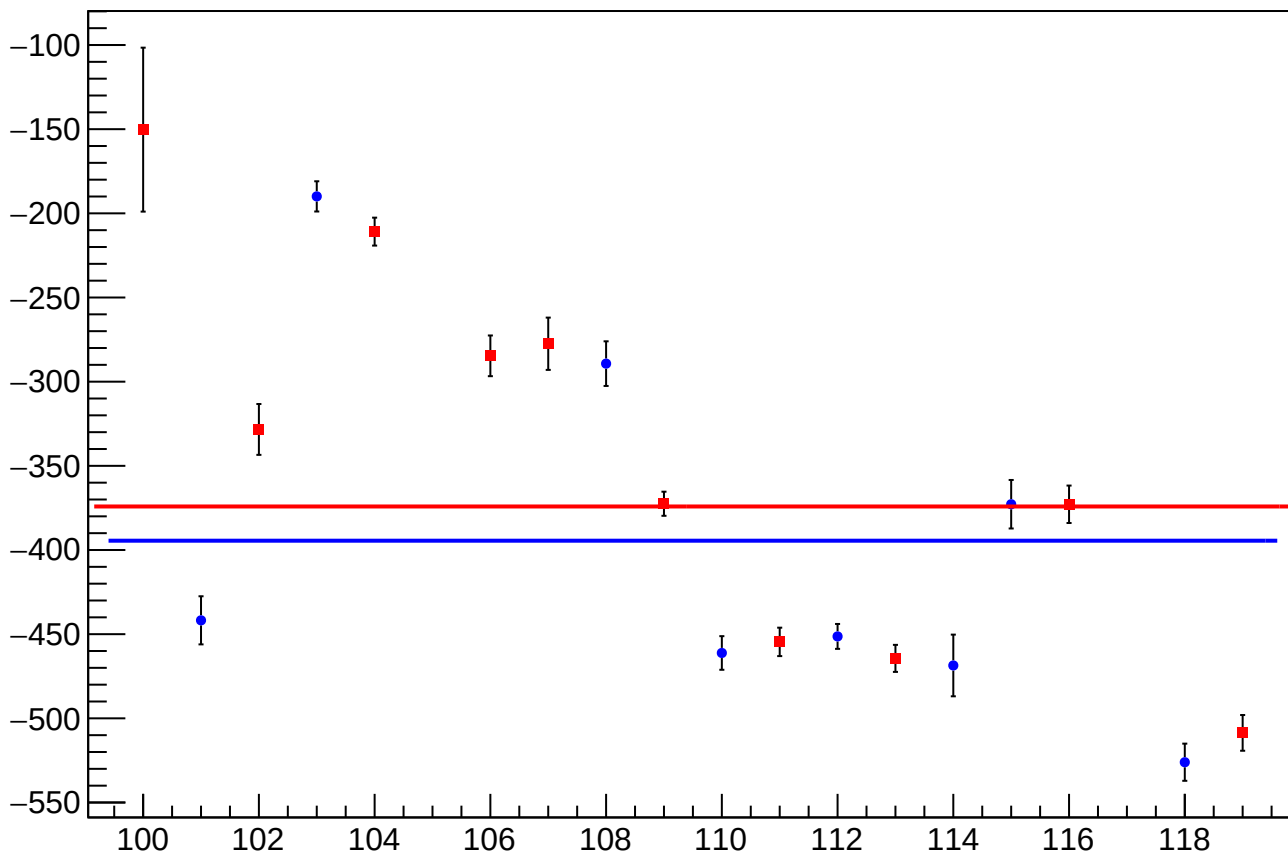
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -10.866+/-0.060  $\chi^2/\text{NDF}$ : 72596.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug



Right In:  $-394.473 \pm 3.855$   $\chi^2/\text{NDF}$ : 857.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-374.142 \pm 3.222$   $\chi^2/\text{NDF}$ : 889.0/9

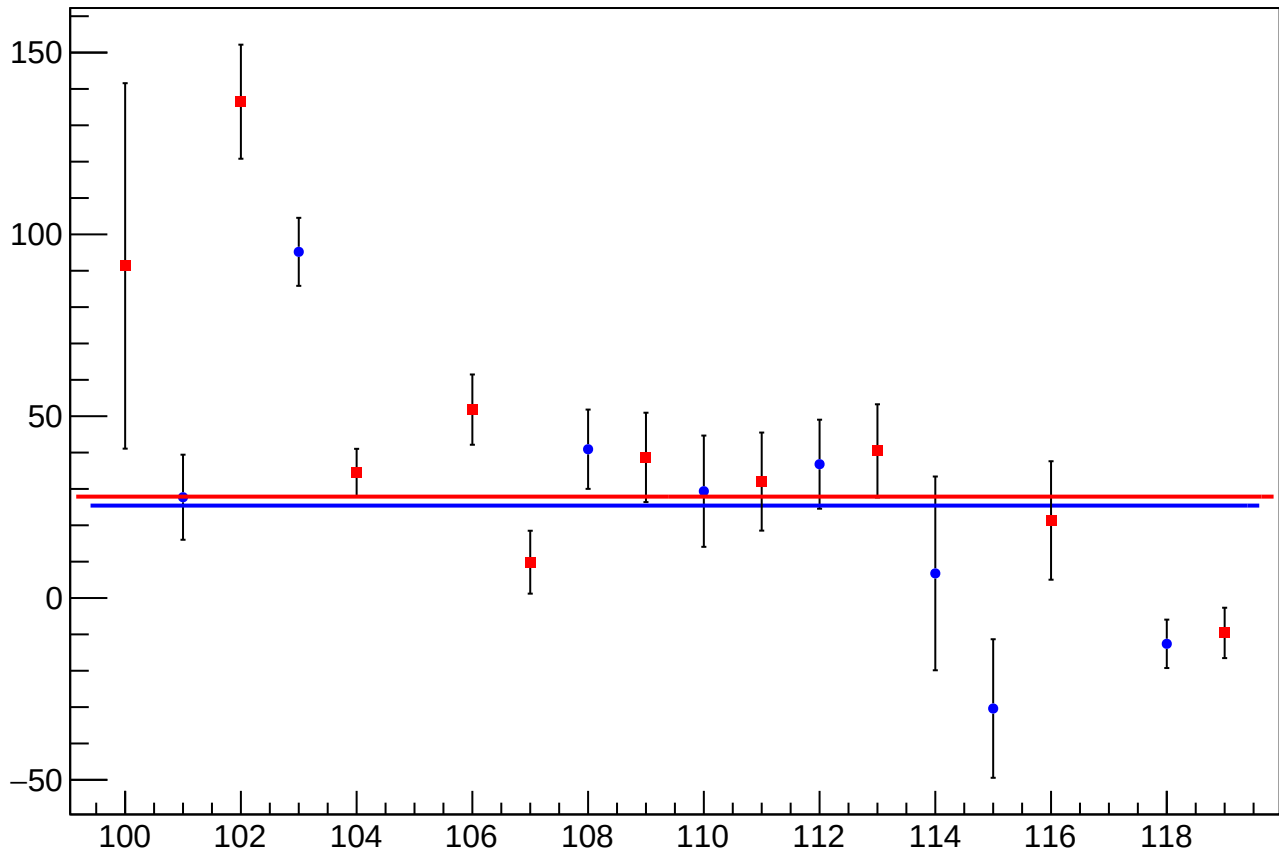
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-382.503 \pm 2.472$   $\chi^2/\text{NDF}$ : 1762.8/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr2\_diff\_bpm4aY\_slope vs Slug



Right In: 25.418 $\pm$ 3.927  $\chi^2$ /NDF: 100.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27.886 $\pm$ 3.250  $\chi^2$ /NDF: 92.3/9

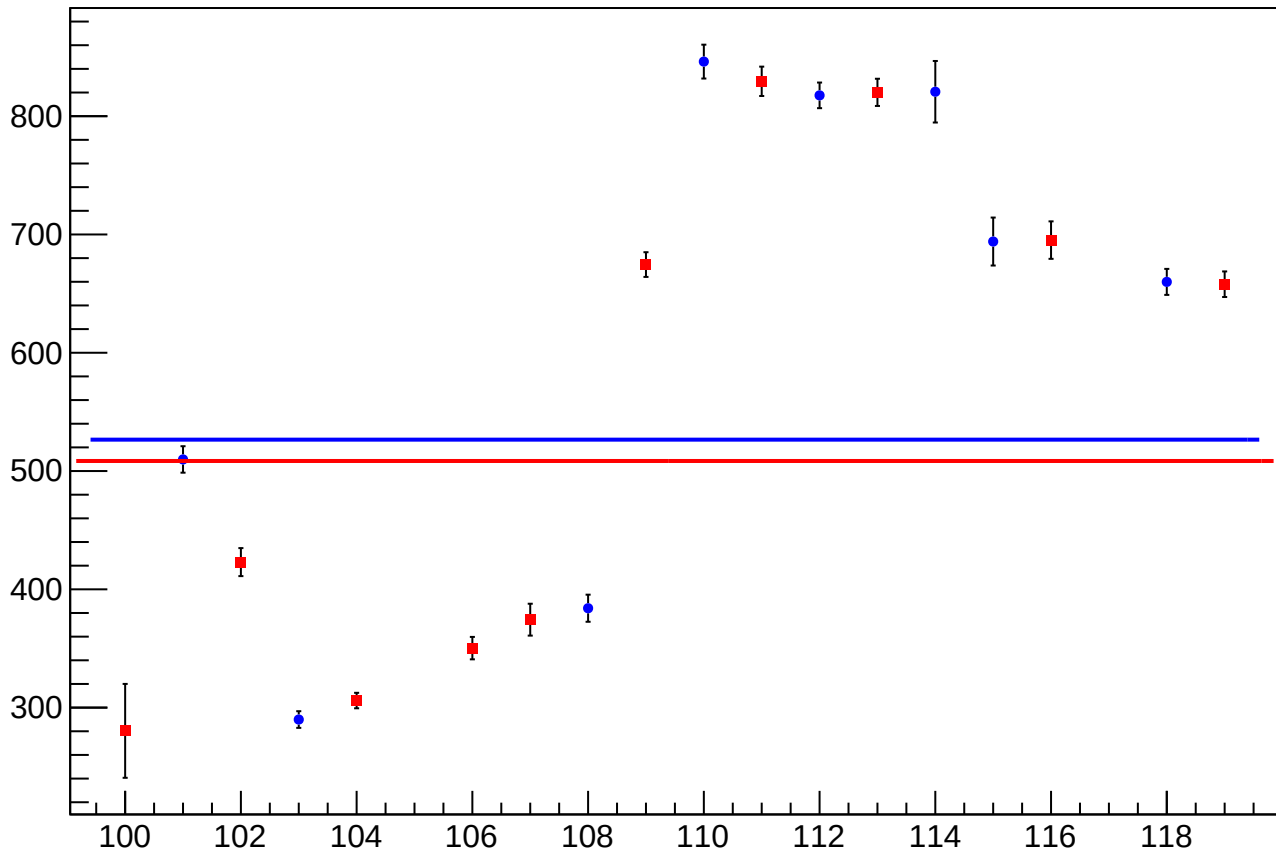
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 26.883 $\pm$ 2.504  $\chi^2$ /NDF: 192.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug



Right In: 526.539 $\pm$ 4.037  $\chi^2$ /NDF: 2849.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 508.505 $\pm$ 3.461  $\chi^2$ /NDF: 3406.5/9

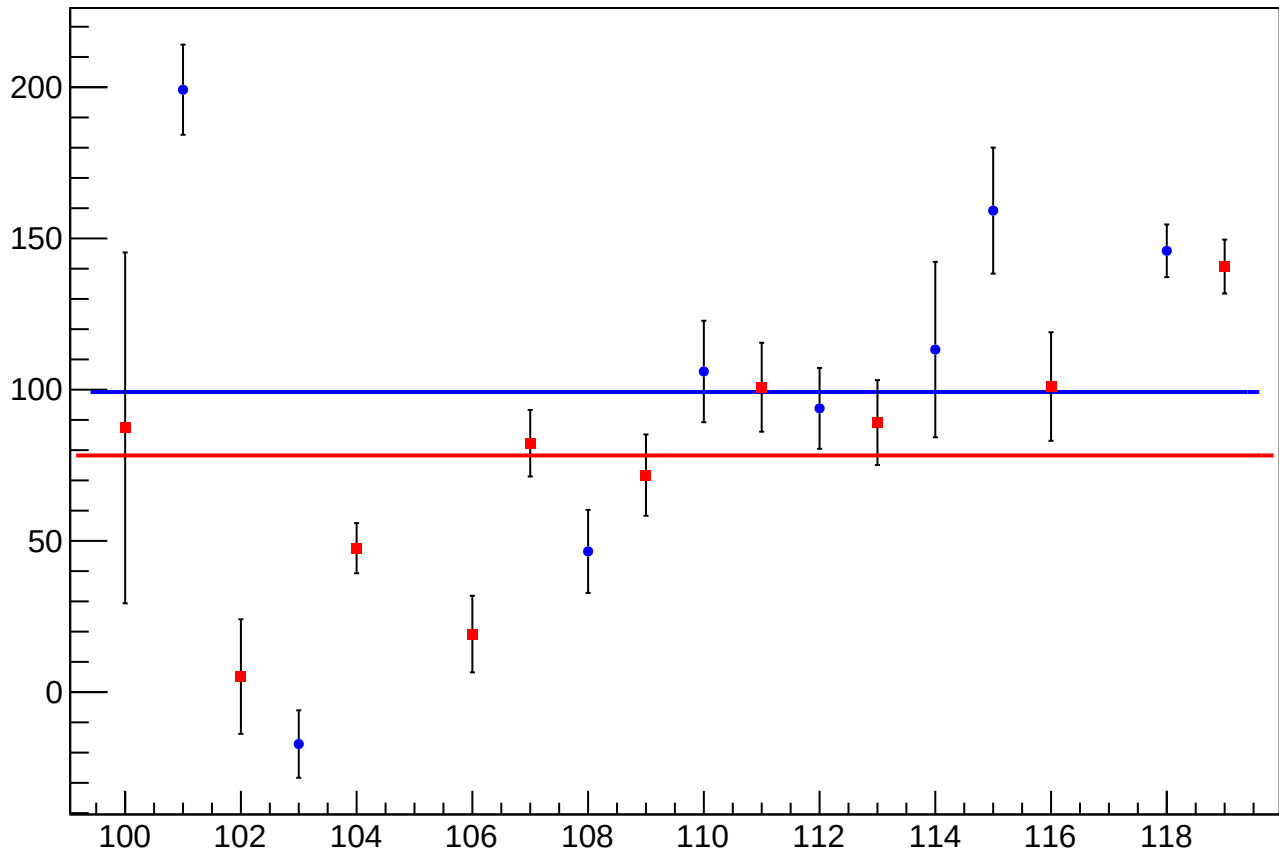
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 516.144 $\pm$ 2.627  $\chi^2$ /NDF: 6267.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug



Right In: 99.227 $\pm$ 4.785  $\chi^2$ /NDF: 206.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 78.248 $\pm$ 3.981  $\chi^2$ /NDF: 104.4/9

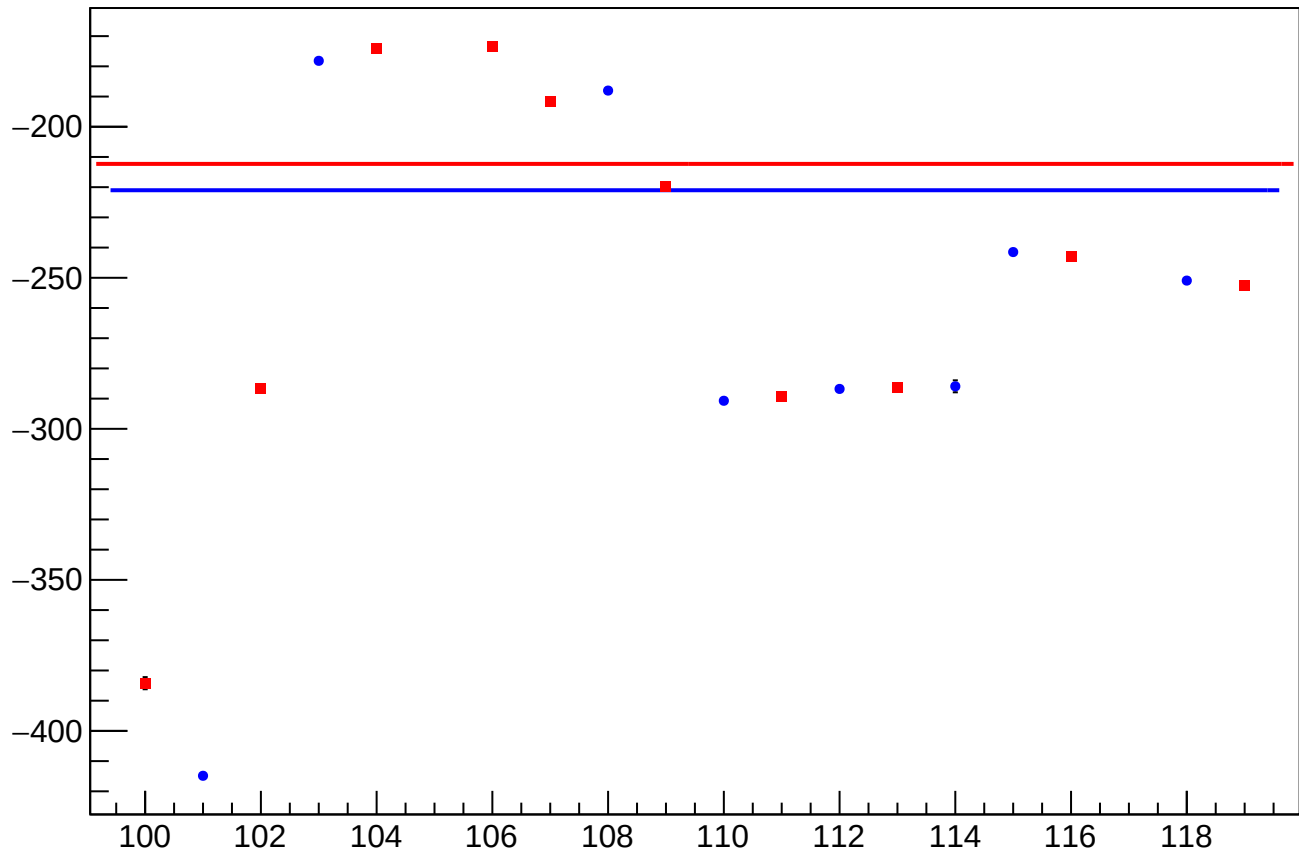
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 86.830 $\pm$ 3.060  $\chi^2$ /NDF: 321.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug



Right In: -221.016+/-0.211  $\chi^2$ /NDF: 122320.0/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -212.294+/-0.191  $\chi^2$ /NDF: 66315.7/9

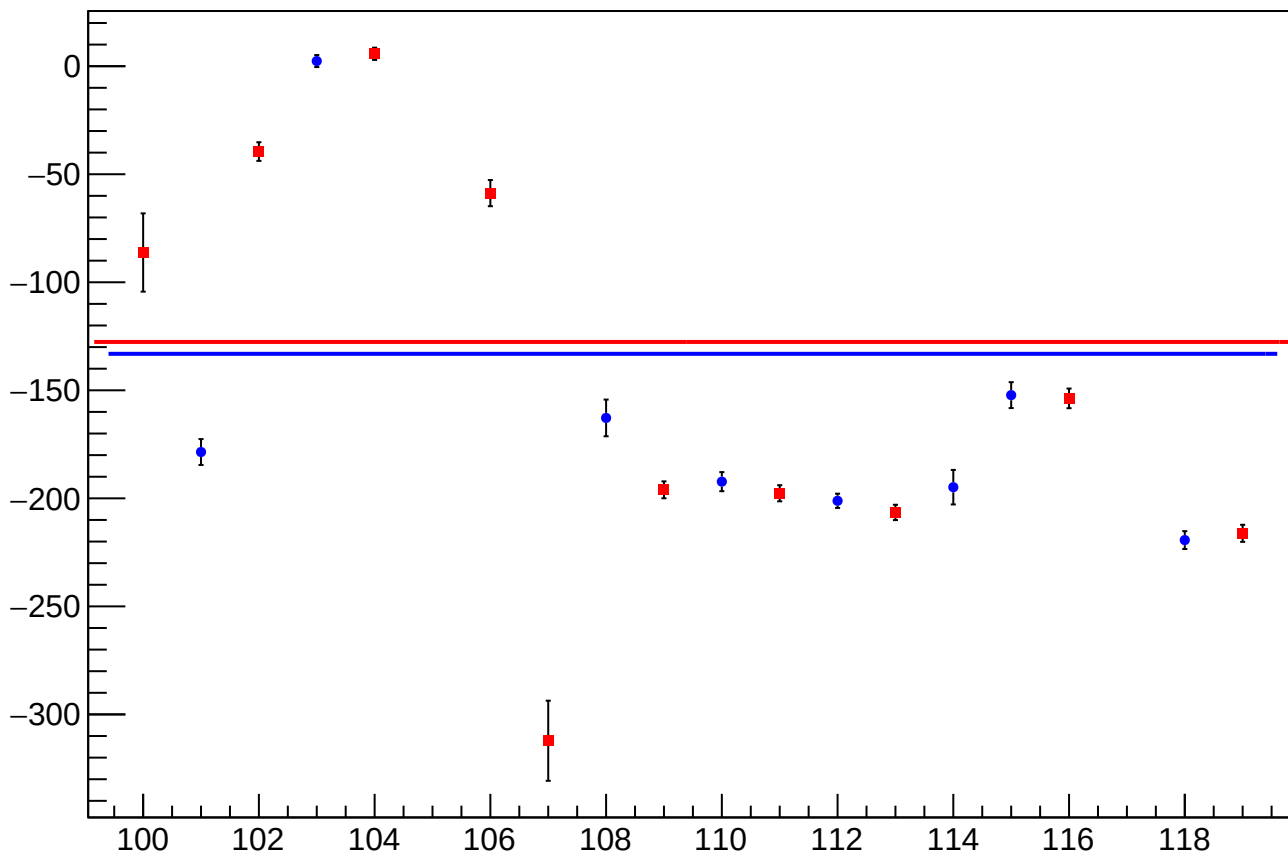
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -216.210+/-0.142  $\chi^2$ /NDF: 189574.8/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -133.115+/-1.549  $\chi^2/\text{NDF}$ : 3558.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -127.616+/-1.361  $\chi^2/\text{NDF}$ : 4544.6/9

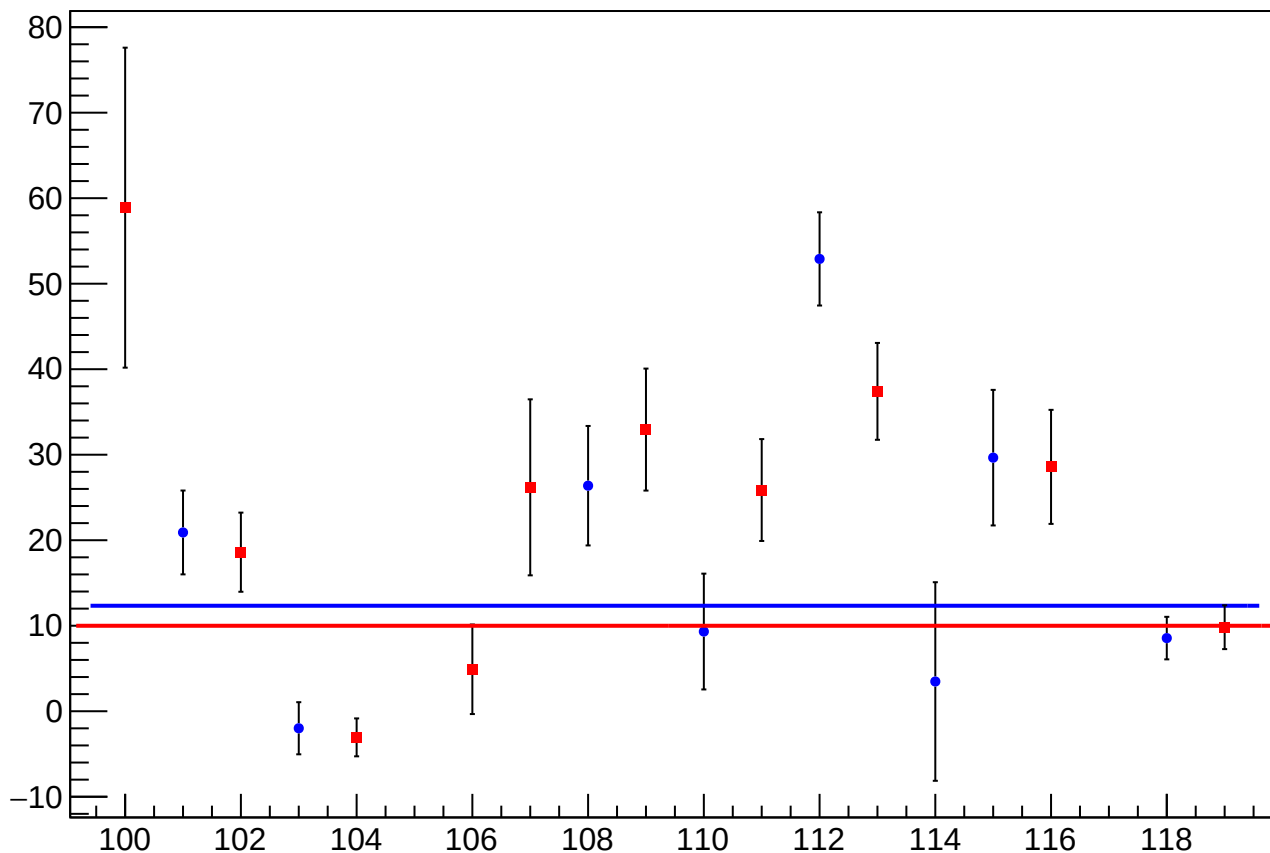
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -130.011+/-1.022  $\chi^2/\text{NDF}$ : 8110.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 12.337 $\pm$ 1.561  $\chi^2$ /NDF: 92.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 9.995 $\pm$ 1.345  $\chi^2$ /NDF: 97.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

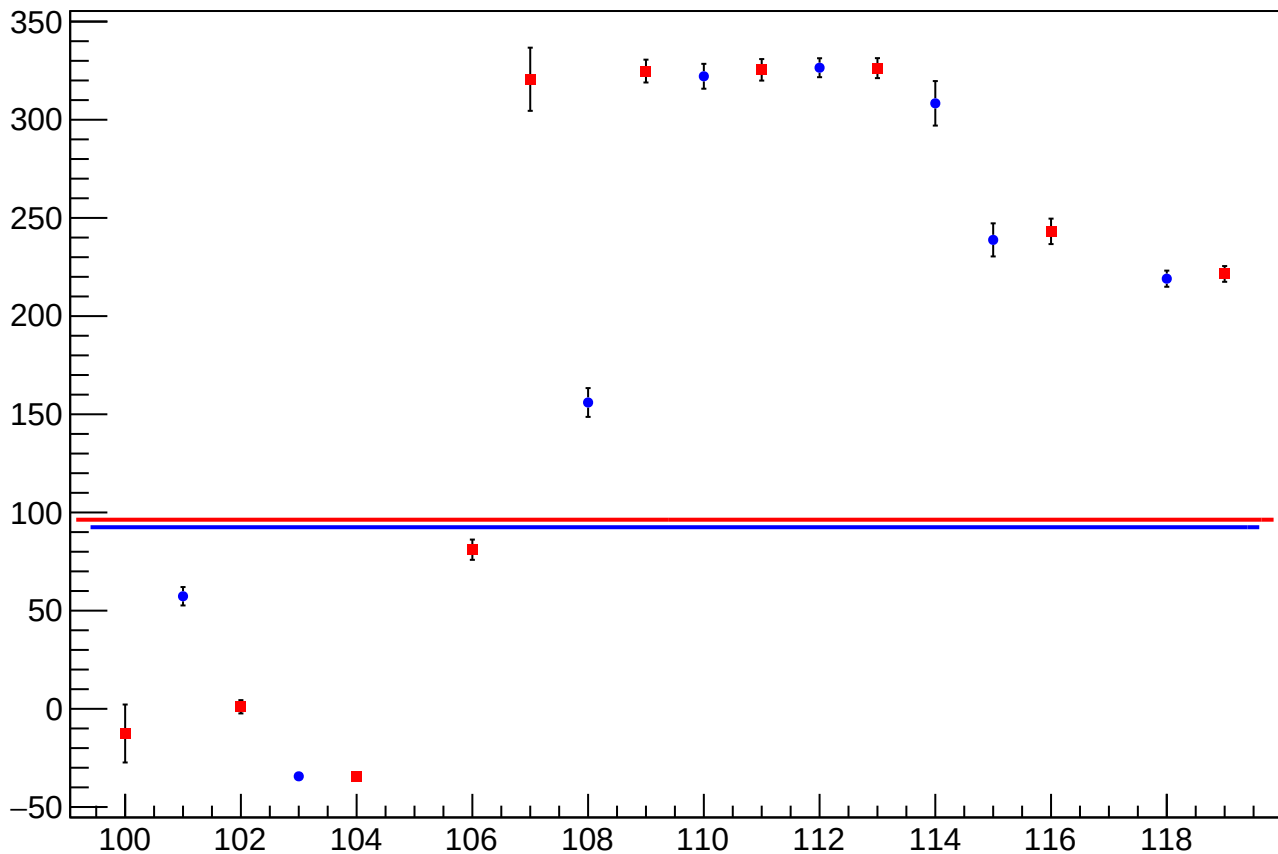
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.993 $\pm$ 1.019  $\chi^2$ /NDF: 190.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 92.485+/-1.538  $\chi^2/\text{NDF}$ : 8786.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 96.314+/-1.387  $\chi^2/\text{NDF}$ : 11277.0/9

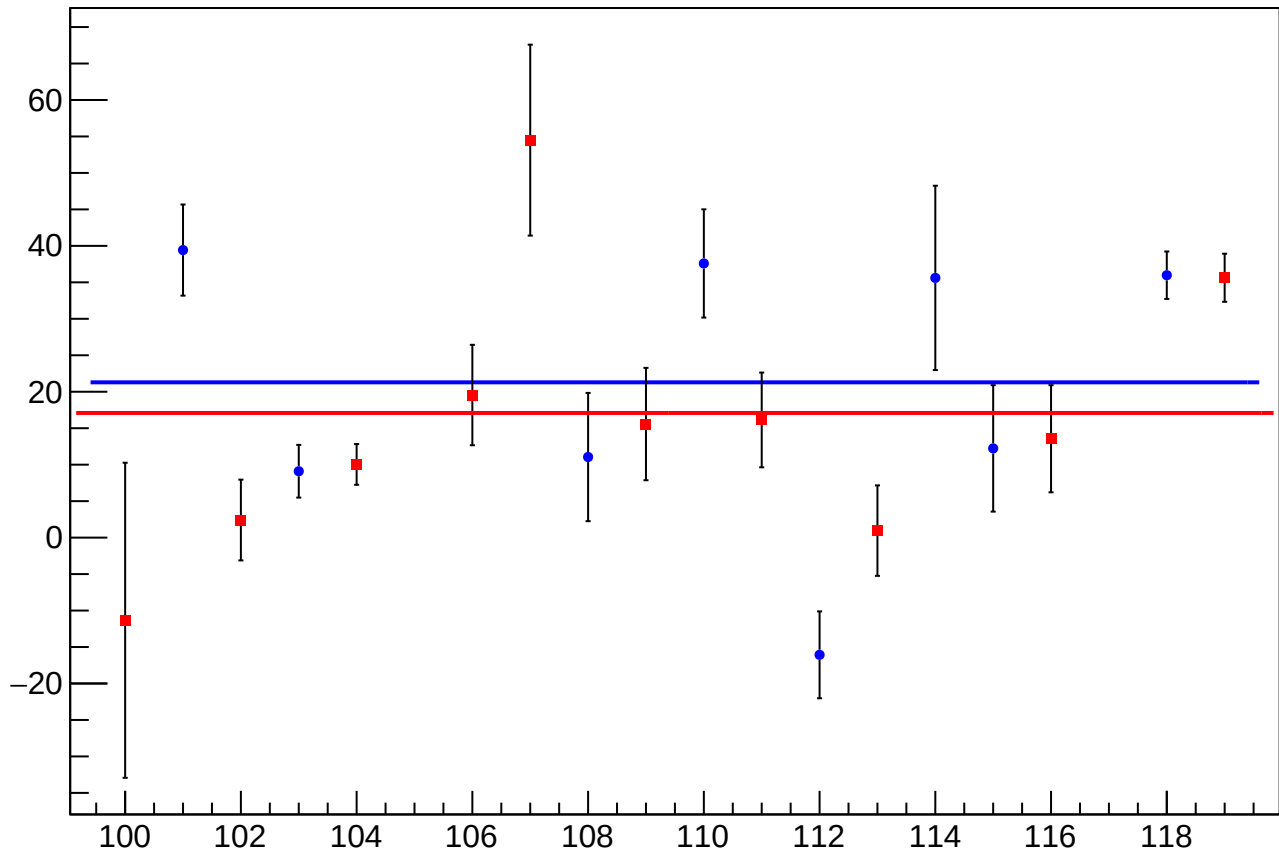
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.597+/-1.030  $\chi^2/\text{NDF}$ : 20067.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 21.290 $\pm$ 1.905  $\chi^2$ /NDF: 88.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.092 $\pm$ 1.651  $\chi^2$ /NDF: 62.1/9

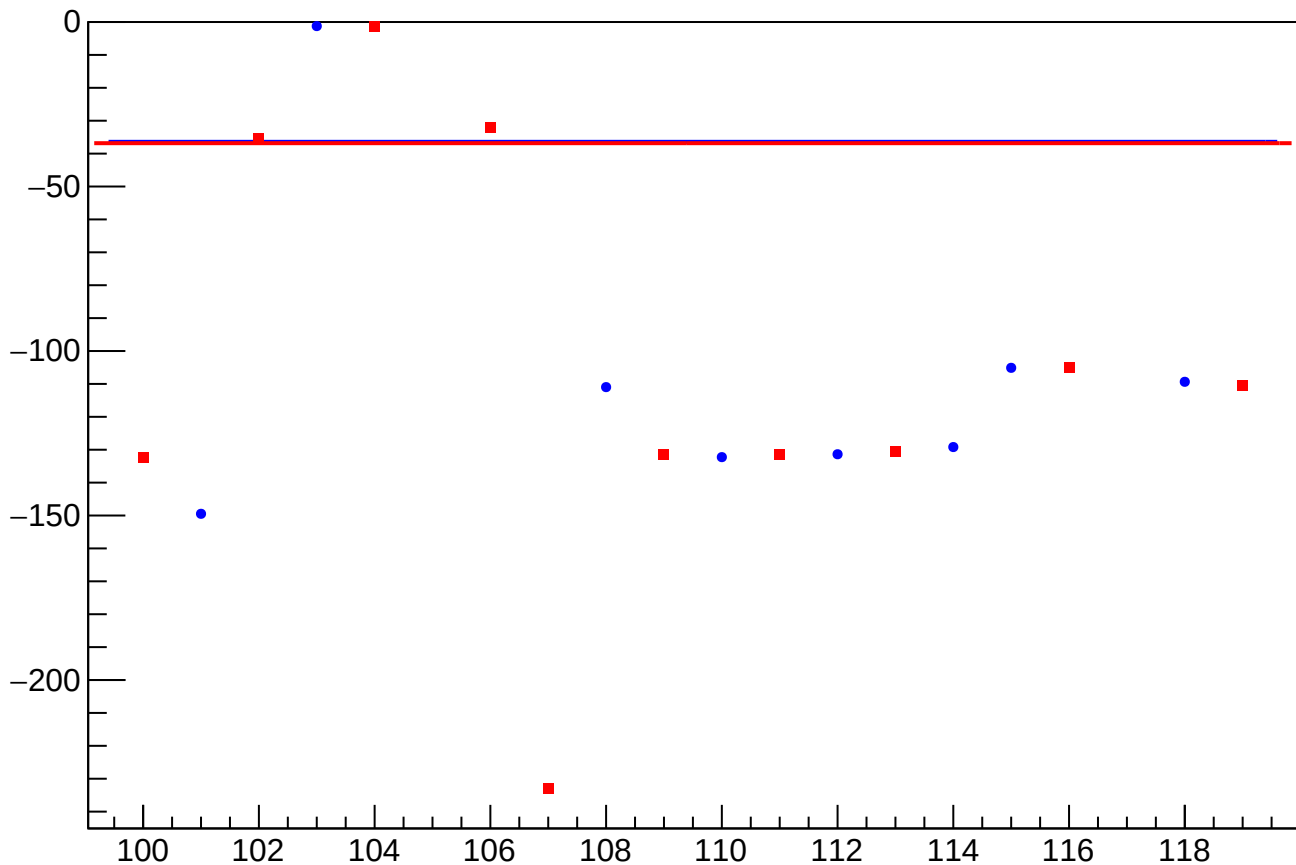
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.892 $\pm$ 1.248  $\chi^2$ /NDF: 153.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -36.419 $\pm$ 0.077  $\chi^2$ /NDF: 546344.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -36.830 $\pm$ 0.071  $\chi^2$ /NDF: 451065.7/9

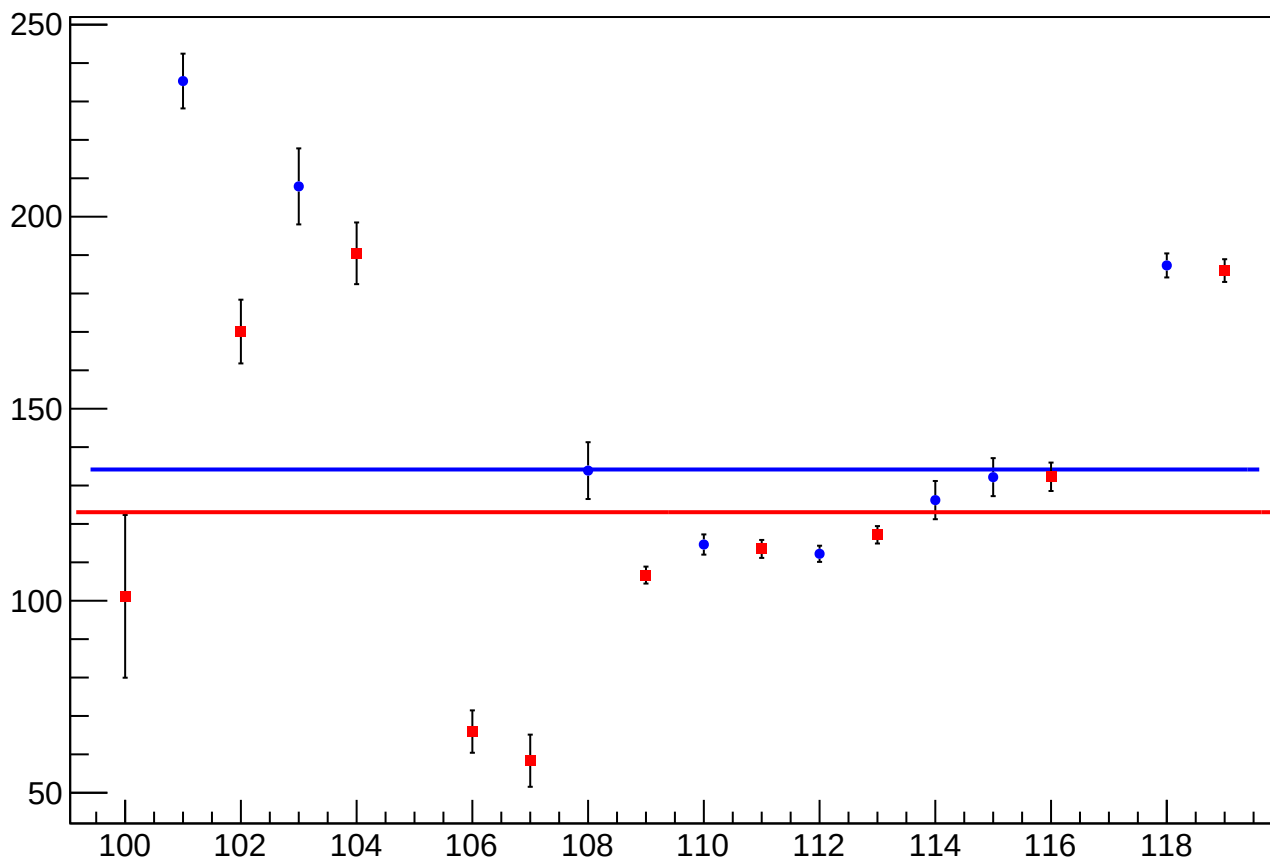
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -36.640 $\pm$ 0.052  $\chi^2$ /NDF: 997425.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 134.175 $\pm$ 1.290  $\chi^2$ /NDF: 711.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 123.056 $\pm$ 1.080  $\chi^2$ /NDF: 838.3/9

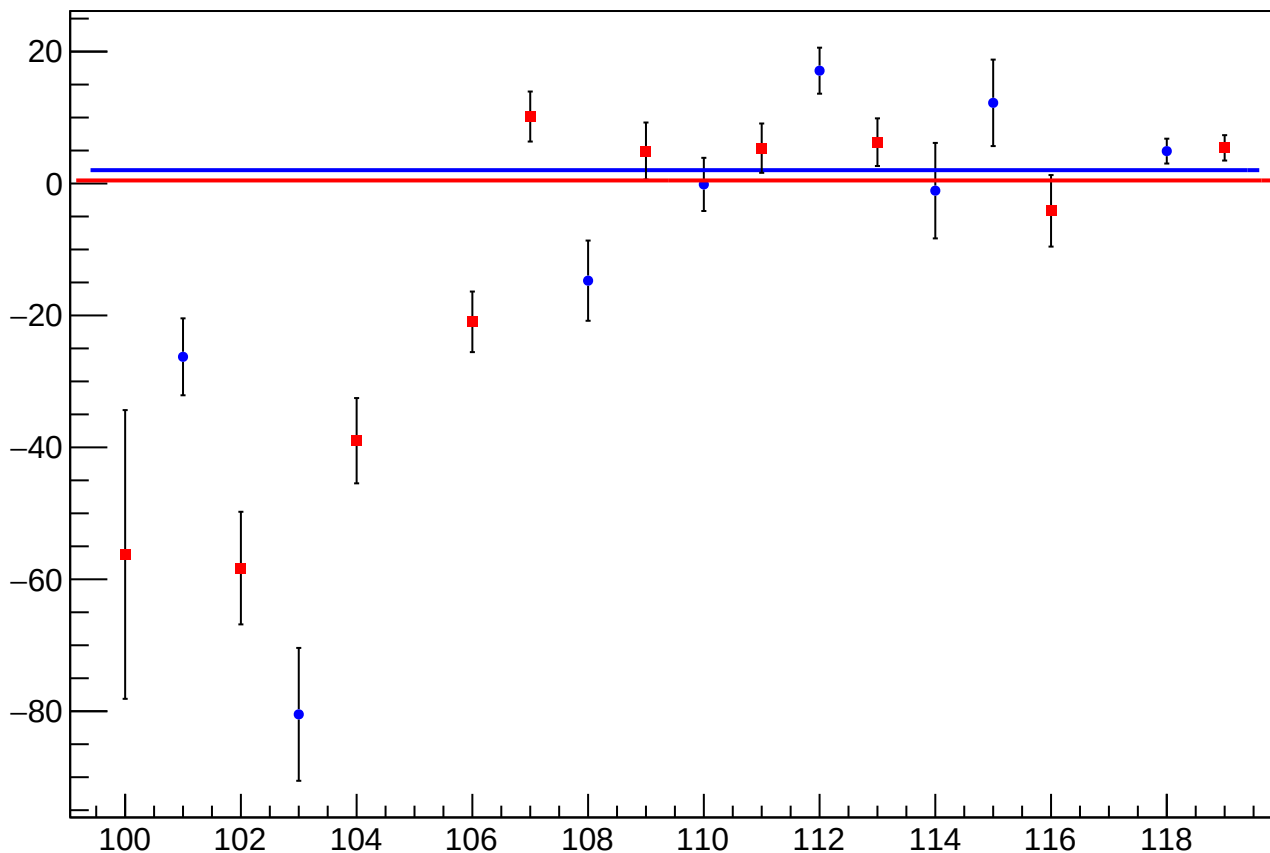
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 127.639 $\pm$ 0.828  $\chi^2$ /NDF: 1593.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 2.024+/-1.368  $\chi^2/\text{NDF}$ : 122.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.464+/-1.229  $\chi^2/\text{NDF}$ : 132.4/9

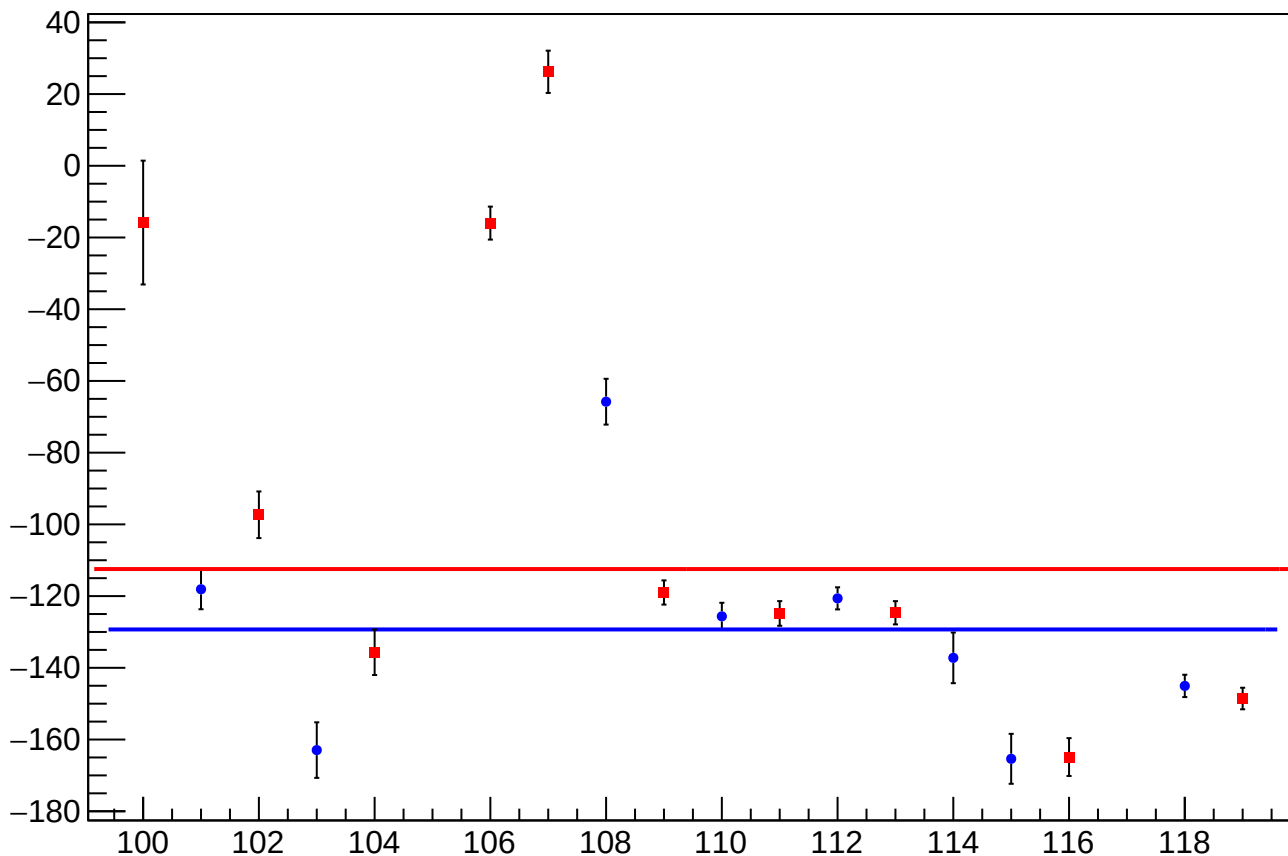
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.161+/-0.914  $\chi^2/\text{NDF}$ : 255.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -129.301+/-1.597  $\chi^2/\text{NDF}$ : 184.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -112.458+/-1.358  $\chi^2/\text{NDF}$ : 1317.4/9

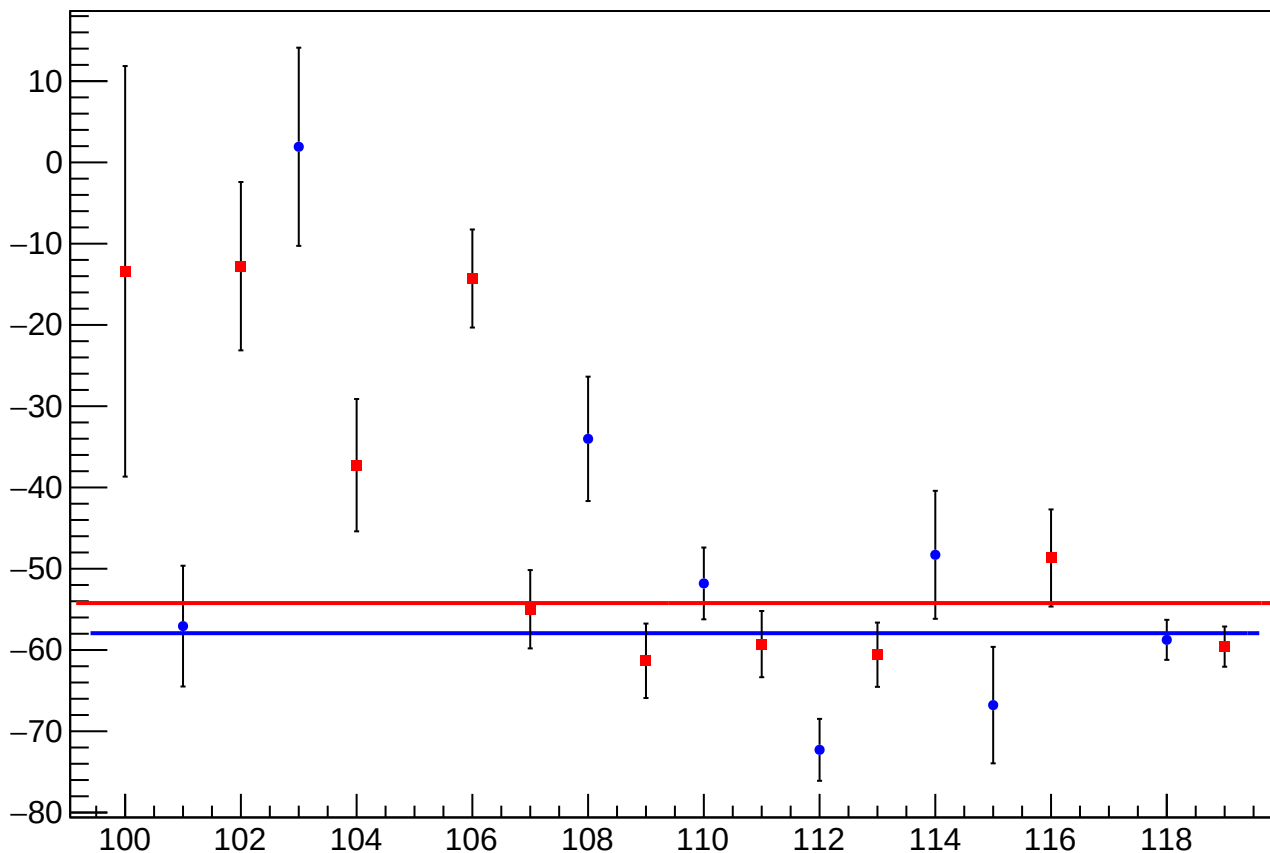
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -119.530+/-1.035  $\chi^2/\text{NDF}$ : 1566.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -57.931+/-1.661  $\chi^2/\text{NDF}$ : 53.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -54.223+/-1.475  $\chi^2/\text{NDF}$ : 78.9/9

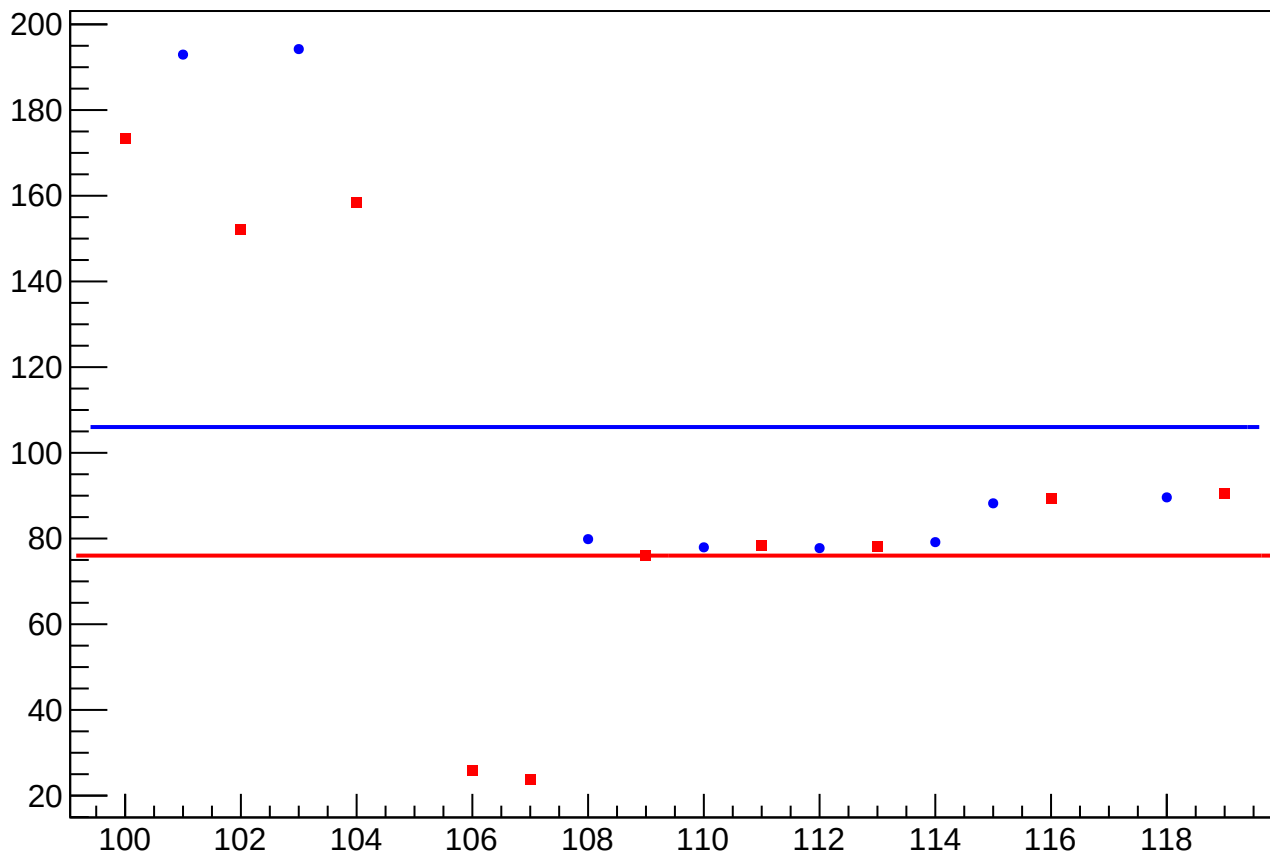
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -55.858+/-1.103  $\chi^2/\text{NDF}$ : 134.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 106.020 $\pm$ 0.109  $\chi^2$ /NDF: 178828.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 76.016 $\pm$ 0.085  $\chi^2$ /NDF: 278571.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

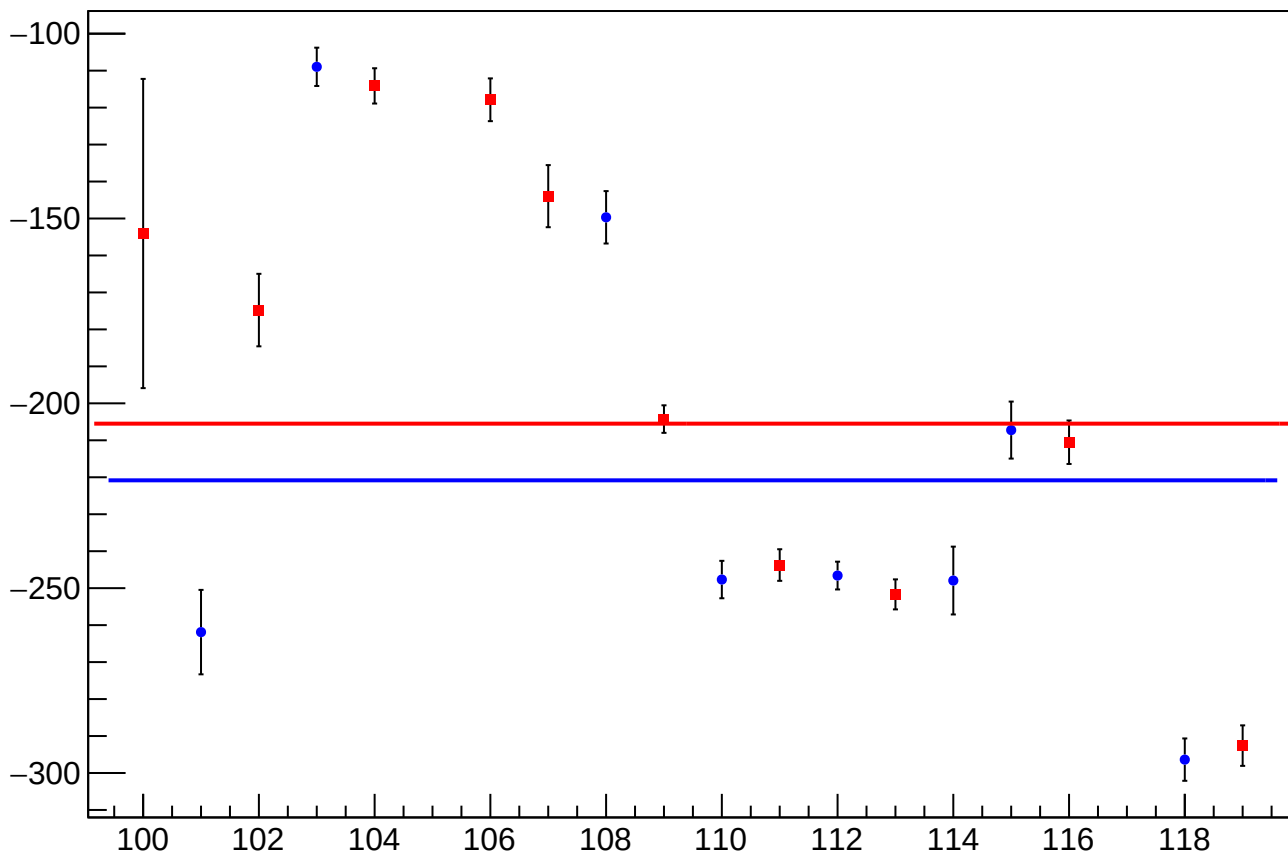
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 87.331 $\pm$ 0.067  $\chi^2$ /NDF: 504505.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -220.829+/-2.068  $\chi^2/\text{NDF}$ : 840.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -205.498+/-1.694  $\chi^2/\text{NDF}$ : 1124.0/9

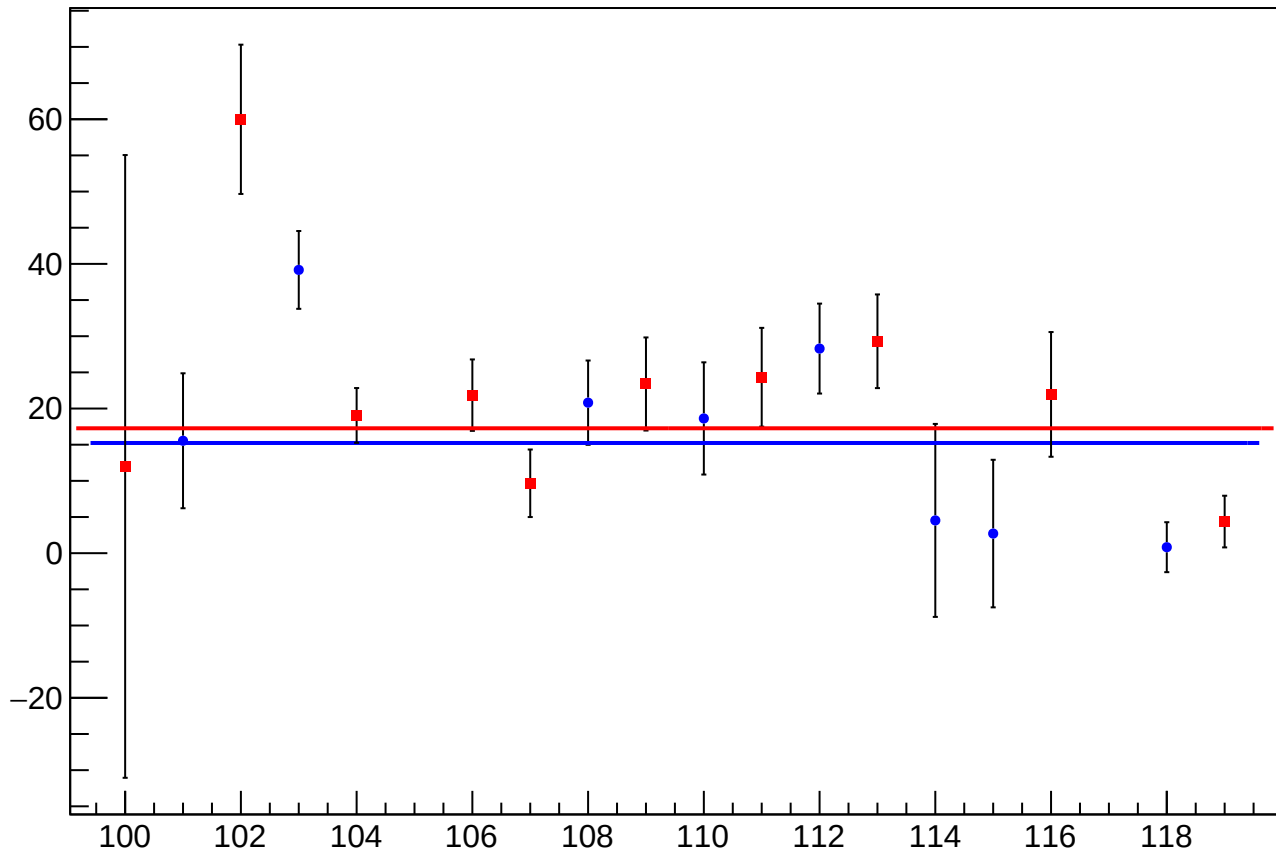
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -211.652+/-1.310  $\chi^2/\text{NDF}$ : 1997.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 15.237 $\pm$ 2.147  $\chi^2$ /NDF: 44.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.269 $\pm$ 1.747  $\chi^2$ /NDF: 39.6/9

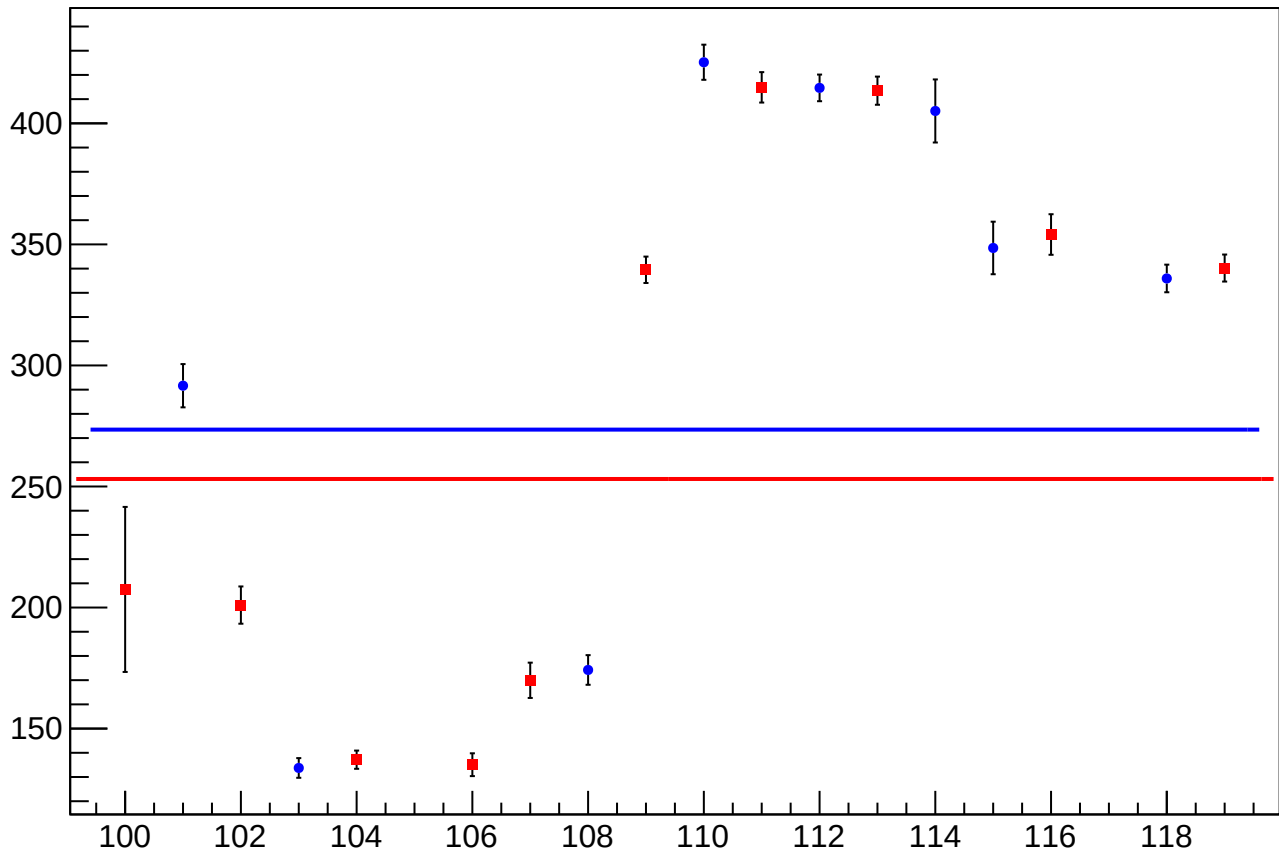
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.459 $\pm$ 1.355  $\chi^2$ /NDF: 85.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 273.495 $\pm$ 2.254  $\chi^2$ /NDF: 2813.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 253.101 $\pm$ 1.866  $\chi^2$ /NDF: 3817.5/9

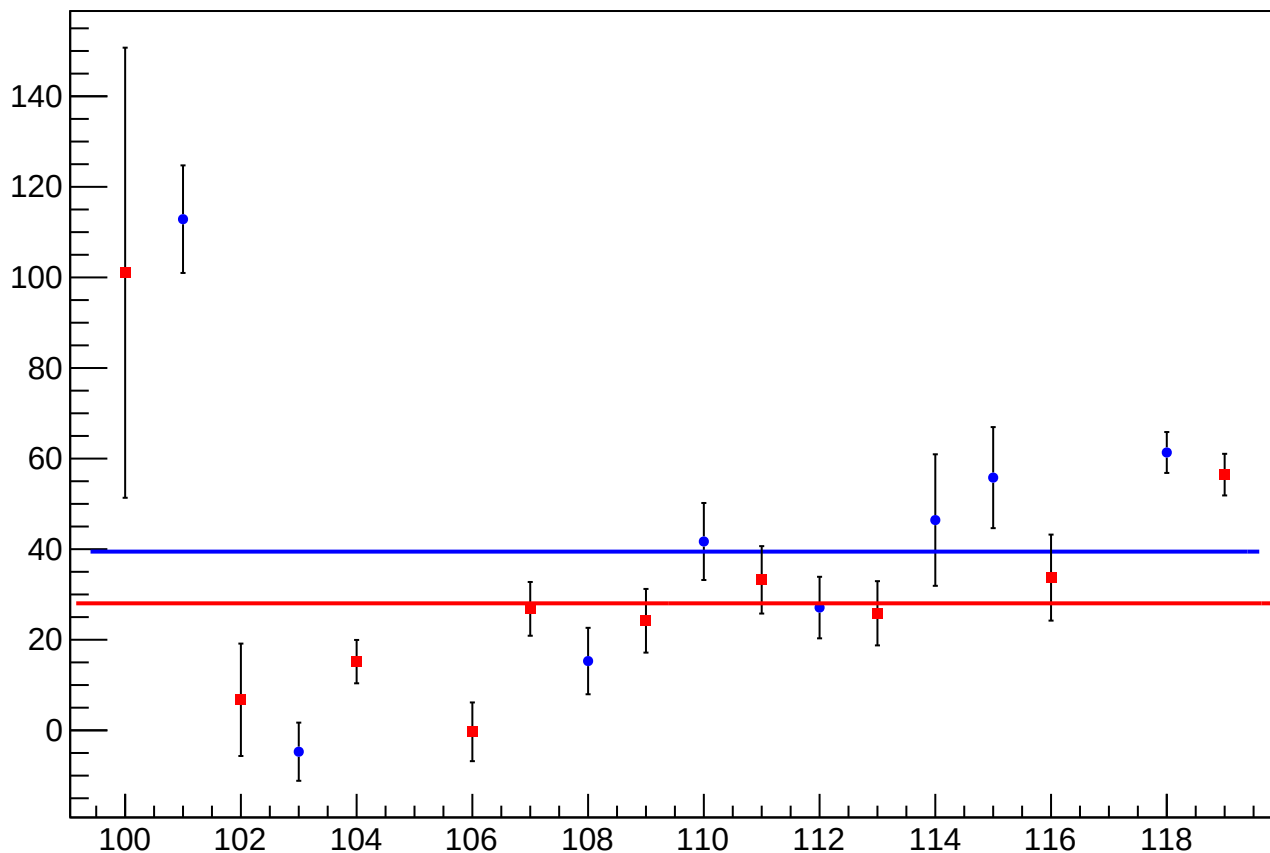
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 261.396 $\pm$ 1.438  $\chi^2$ /NDF: 6679.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 39.461 $\pm$ 2.606  $\chi^2$ /NDF: 125.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28.043 $\pm$ 2.135  $\chi^2$ /NDF: 71.0/9

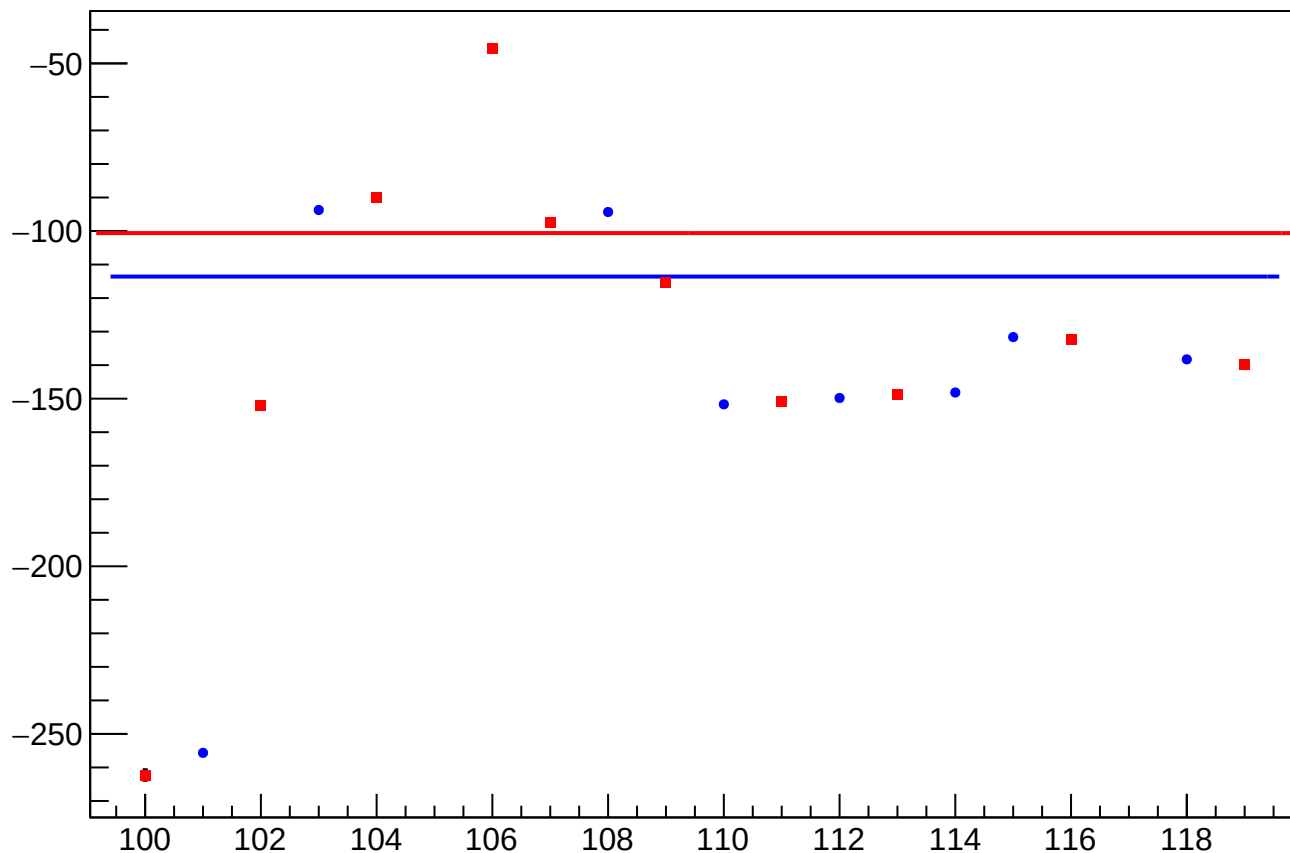
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 32.628 $\pm$ 1.652  $\chi^2$ /NDF: 208.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -113.581 $\pm$ 0.120  $\chi^2$ /NDF: 106899.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -100.609 $\pm$ 0.103  $\chi^2$ /NDF: 126242.6/9

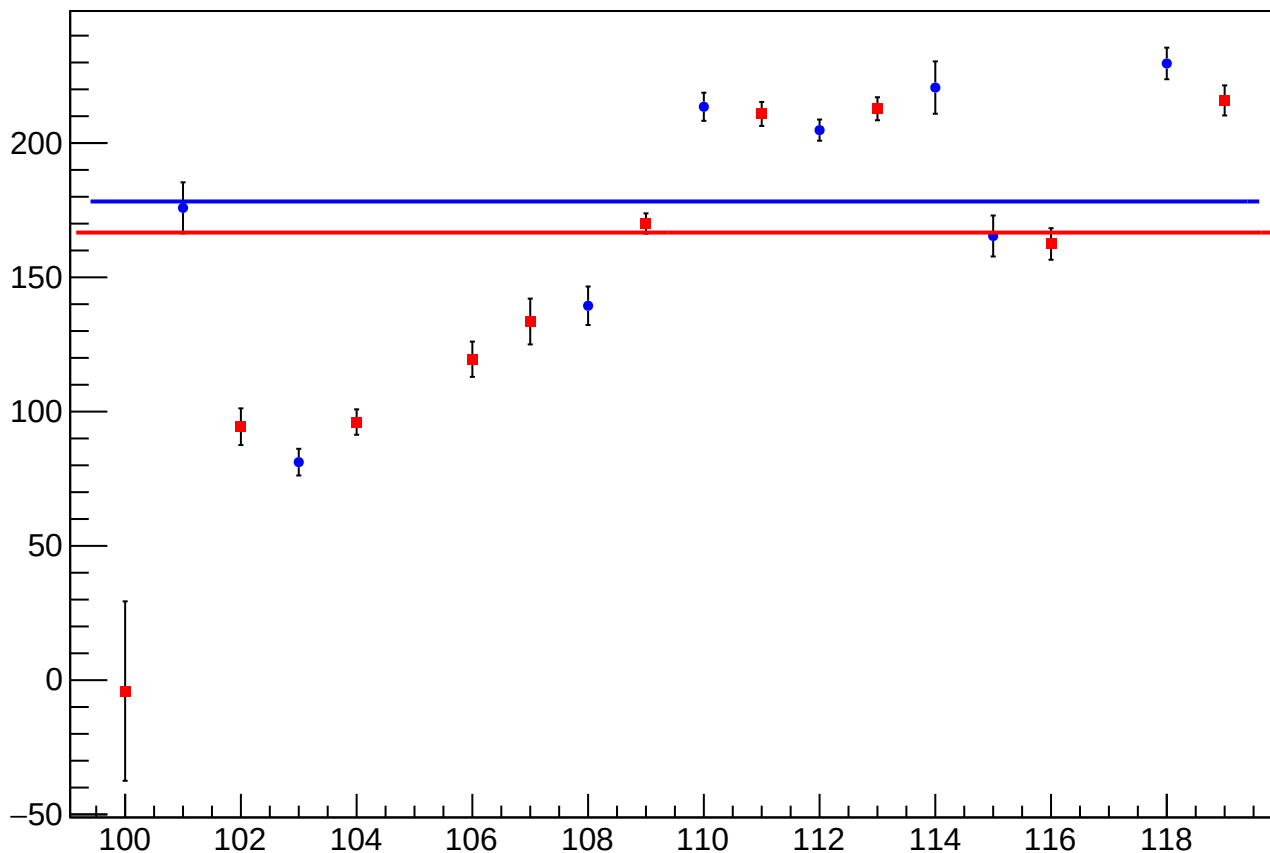
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -106.131 $\pm$ 0.078  $\chi^2$ /NDF: 239866.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 178.251+/-2.092  $\chi^2/\text{NDF}$ : 599.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 166.674+/-1.717  $\chi^2/\text{NDF}$ : 718.6/9

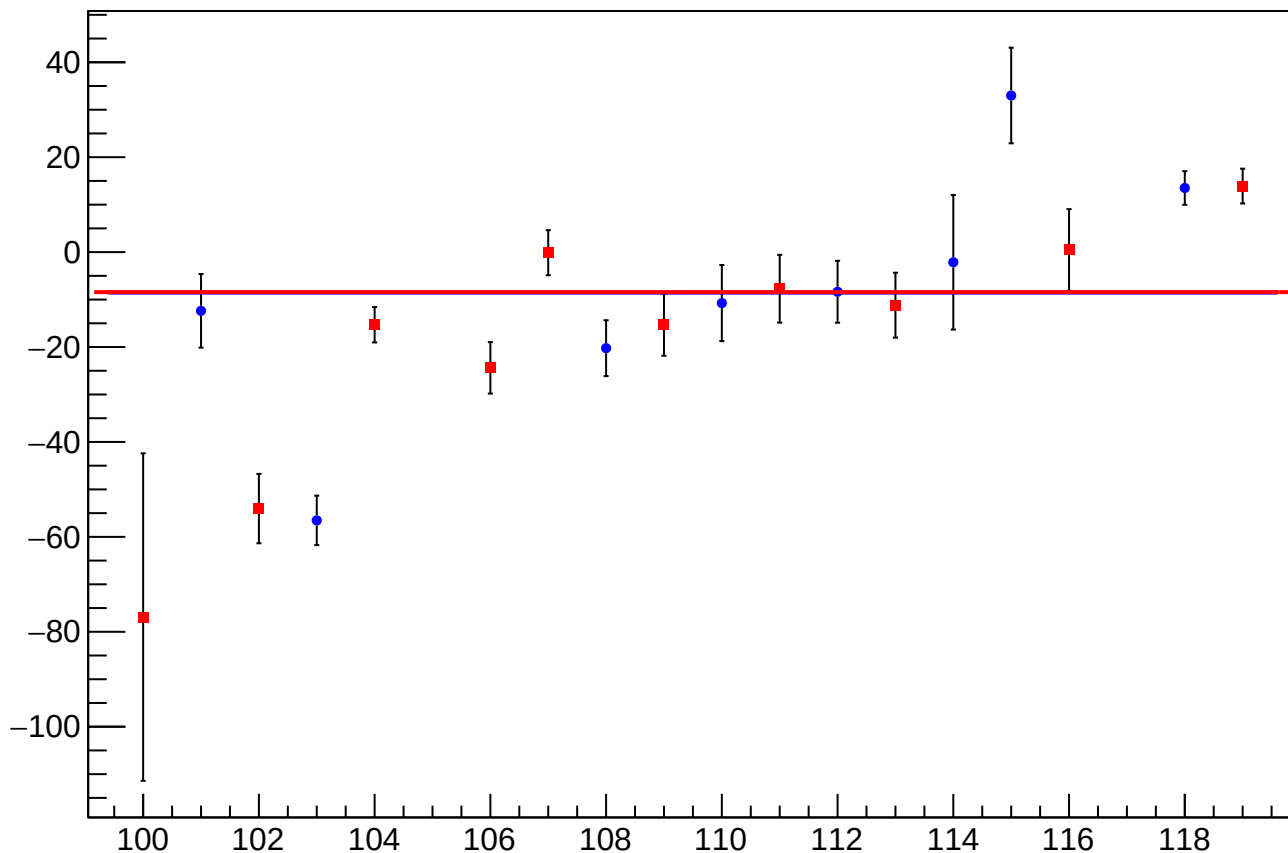
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 171.333+/-1.327  $\chi^2/\text{NDF}$ : 1336.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-8.529 \pm 2.152$   $\chi^2/\text{NDF}$ : 145.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-8.435 \pm 1.762$   $\chi^2/\text{NDF}$ : 97.5/9

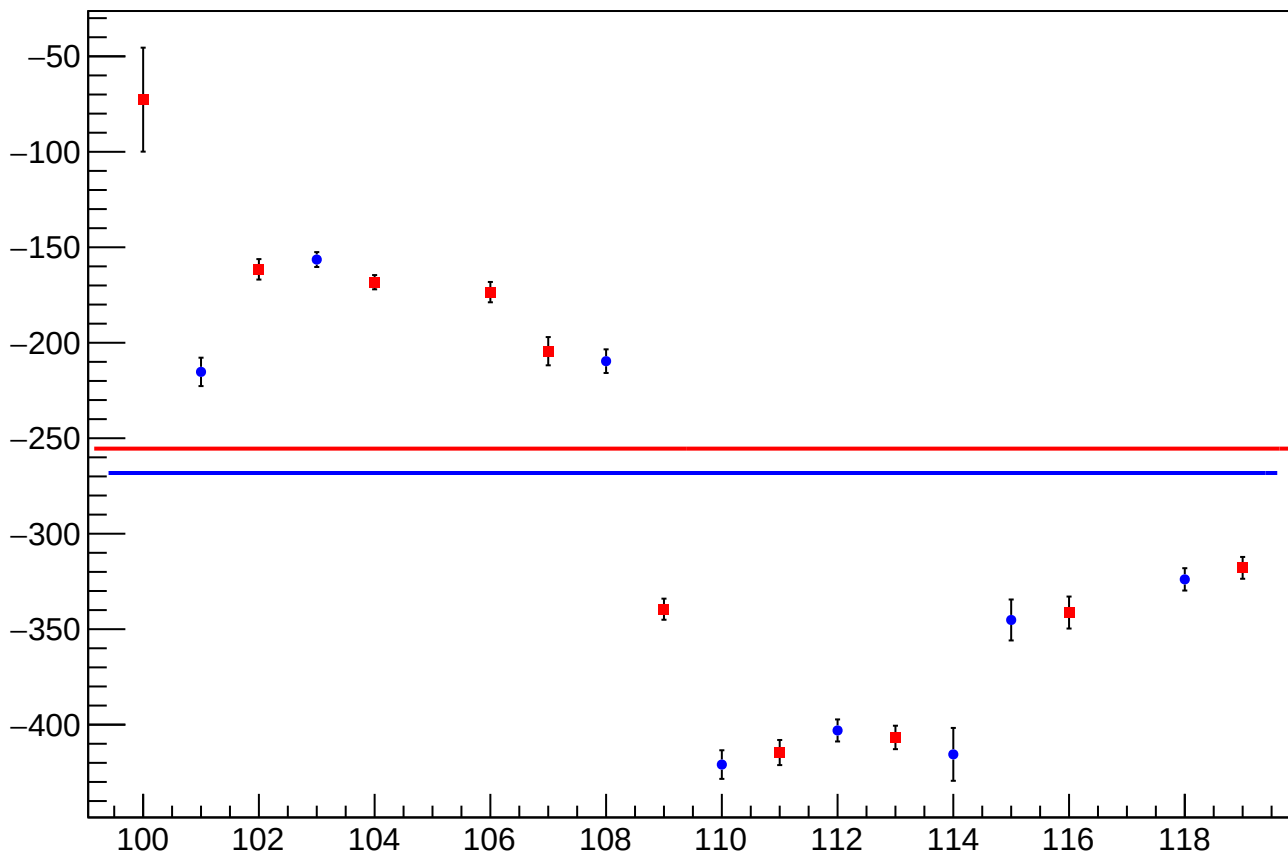
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-8.473 \pm 1.364$   $\chi^2/\text{NDF}$ : 242.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-268.204 \pm 2.232$   $\chi^2/\text{NDF}$ : 2176.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-255.439 \pm 1.861$   $\chi^2/\text{NDF}$ : 2830.3/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

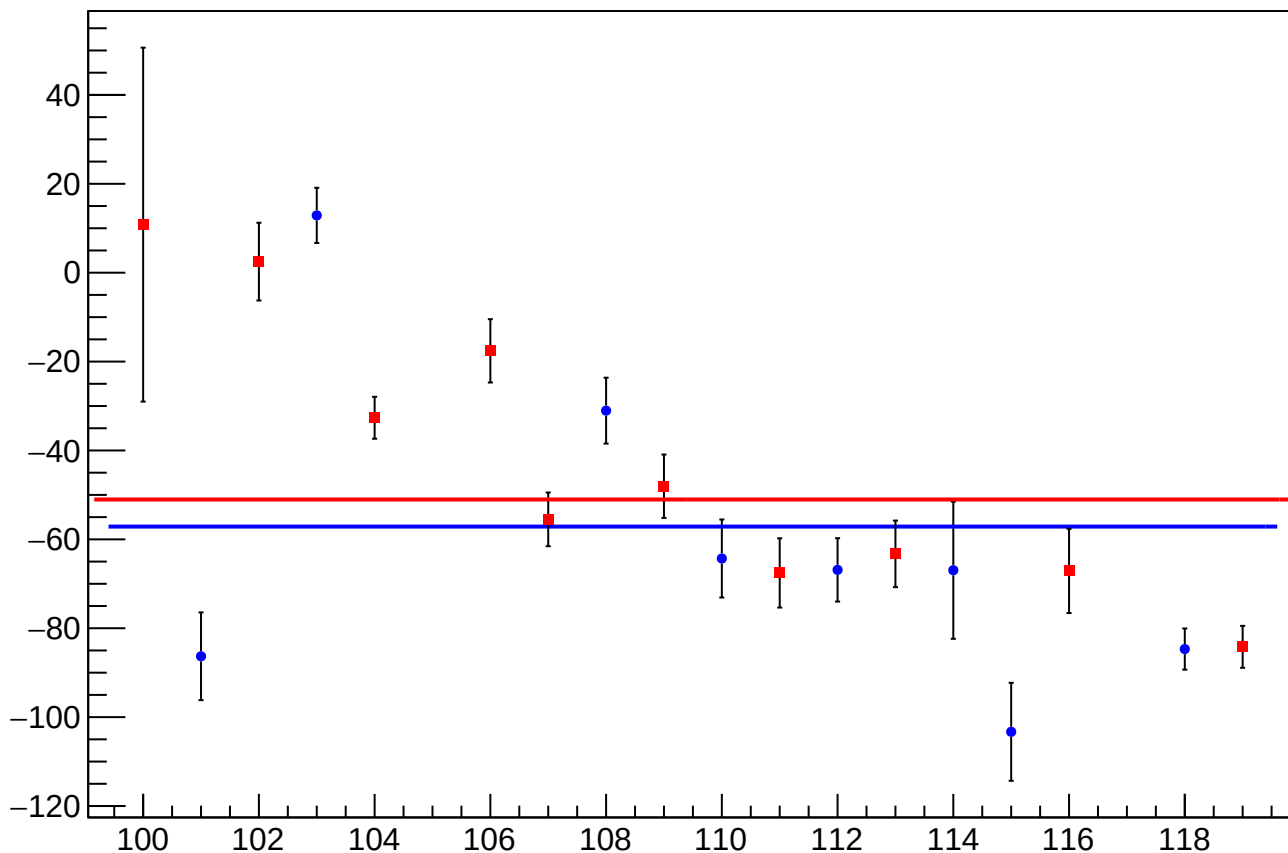
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-260.674 \pm 1.429$   $\chi^2/\text{NDF}$ : 5025.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-57.125 \pm 2.617$   $\chi^2/\text{NDF}$ : 204.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-51.031 \pm 2.152$   $\chi^2/\text{NDF}$ : 137.3/9

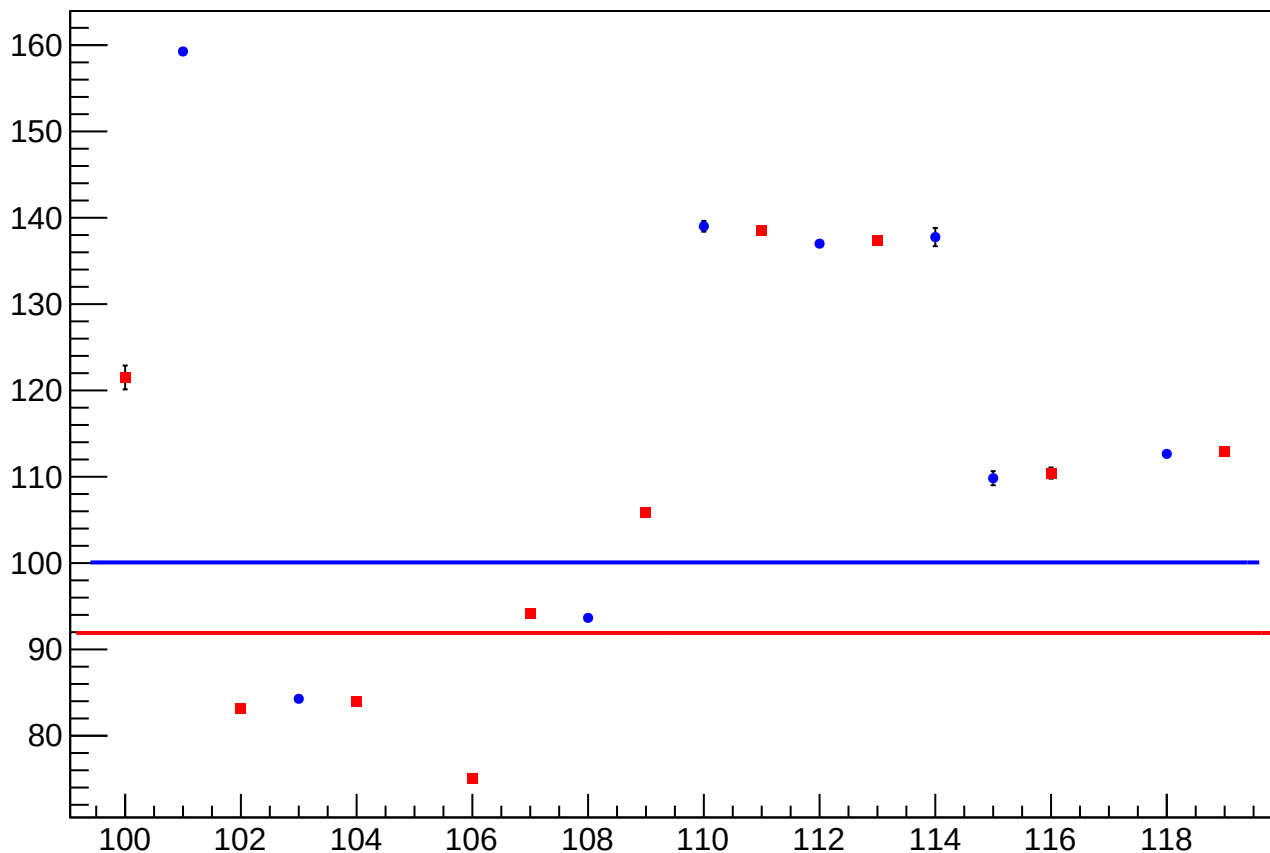
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-53.490 \pm 1.662$   $\chi^2/\text{NDF}$ : 344.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 100.078 $\pm$ 0.117  $\chi^2$ /NDF: 40805.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 91.907 $\pm$ 0.100  $\chi^2$ /NDF: 30259.3/9

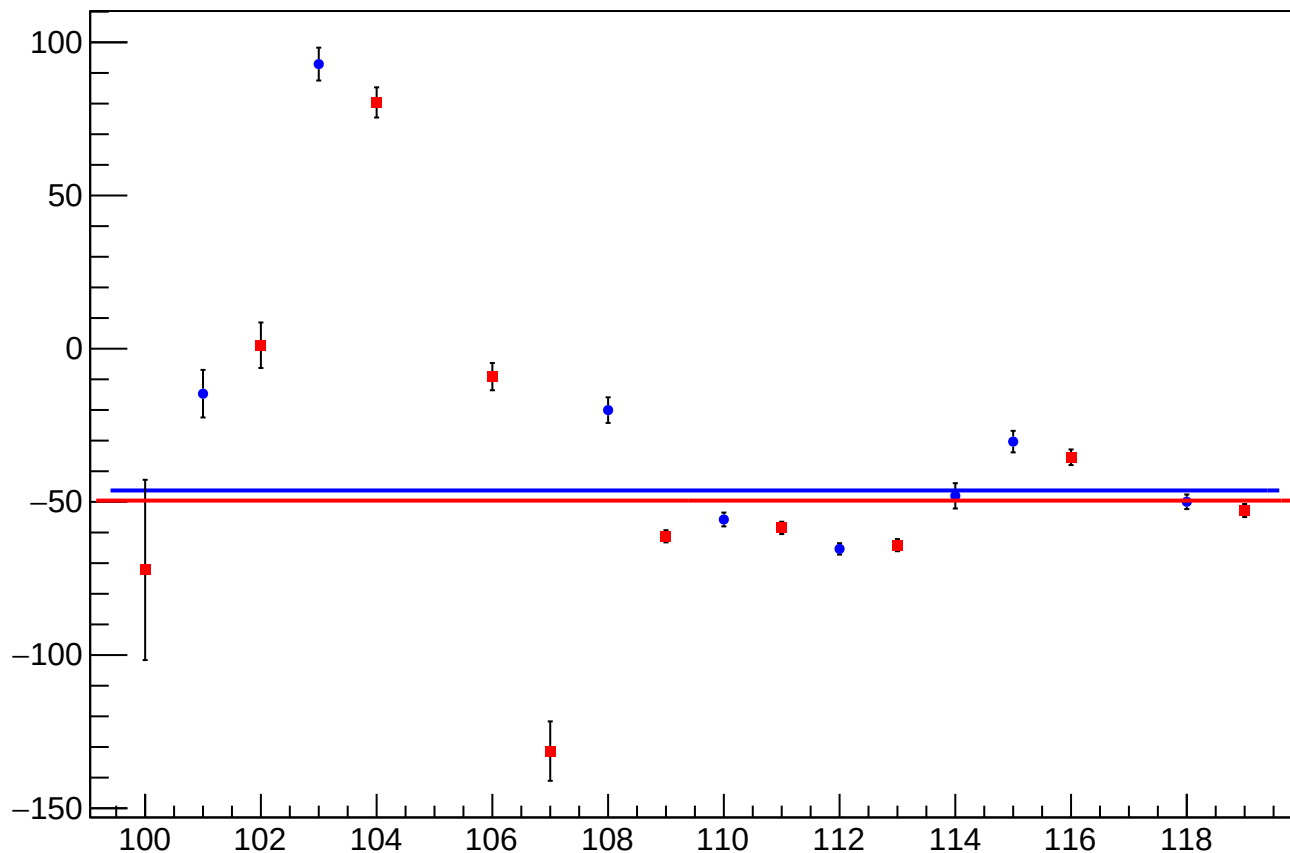
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 95.353 $\pm$ 0.076  $\chi^2$ /NDF: 73882.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-46.273 \pm 1.048$   $\chi^2/\text{NDF}$ : 875.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-49.582 \pm 0.894$   $\chi^2/\text{NDF}$ : 1039.1/9

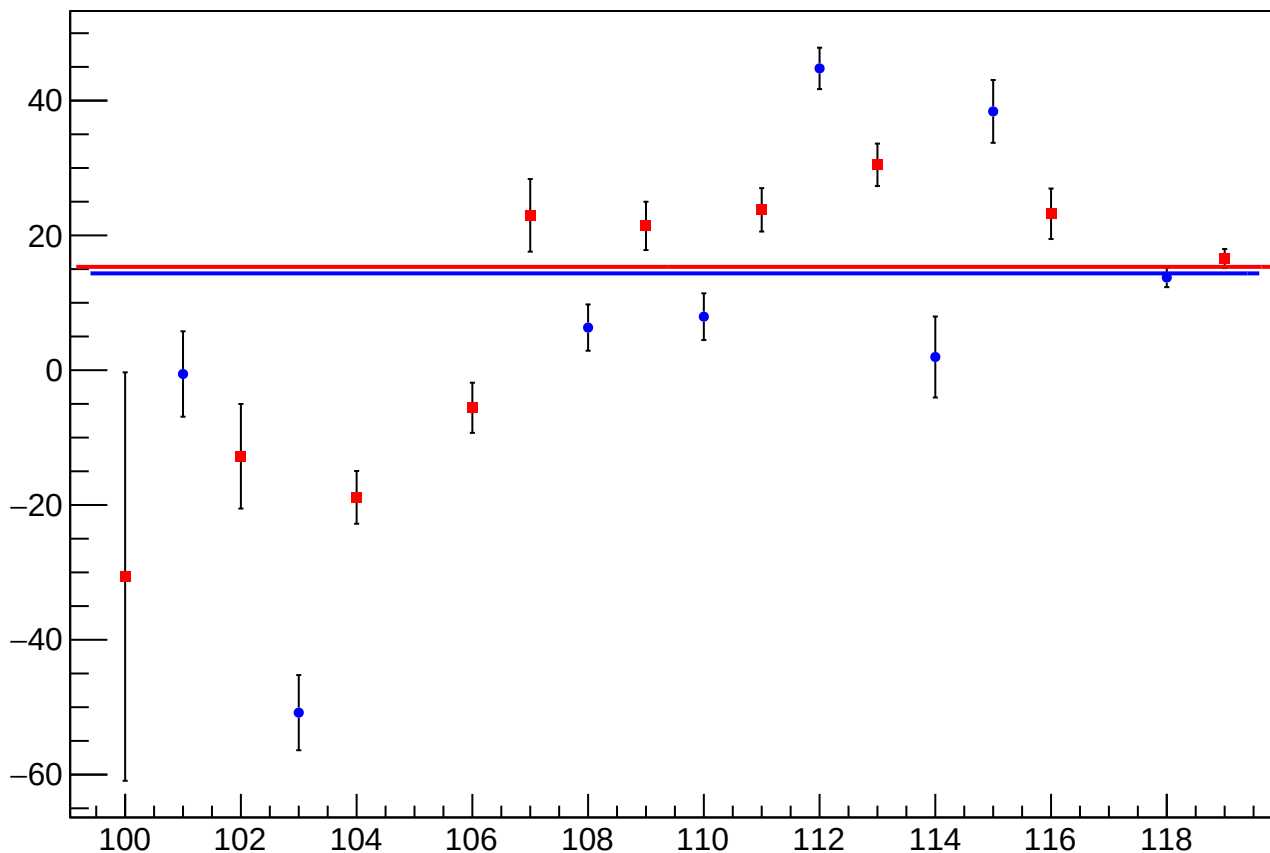
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-48.189 \pm 0.680$   $\chi^2/\text{NDF}$ : 1920.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 14.363+/-1.058  $\chi^2/\text{NDF}$ : 280.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15.333+/-0.982  $\chi^2/\text{NDF}$ : 163.5/9

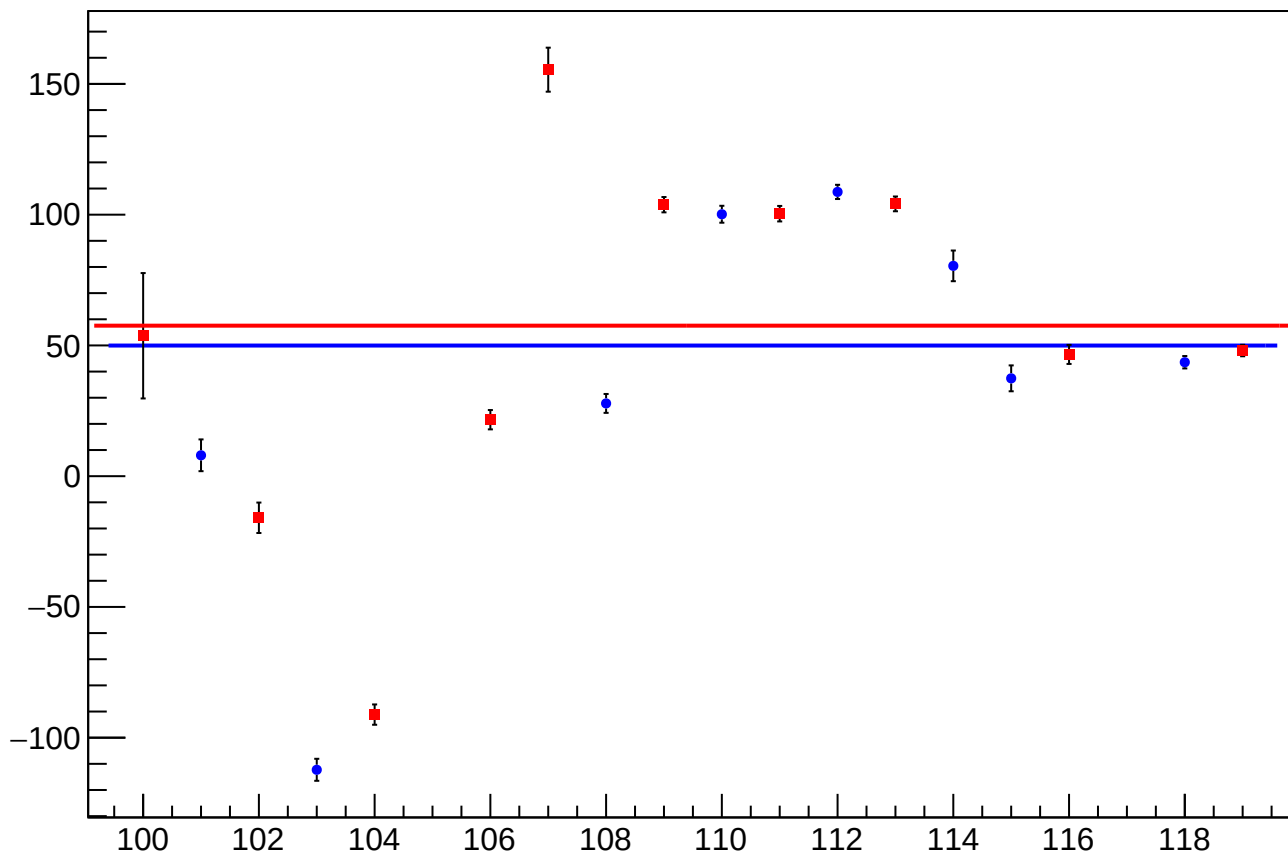
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14.884+/-0.720  $\chi^2/\text{NDF}$ : 443.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 49.954+/-1.251  $\chi^2$ /NDF: 2320.9/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 57.558+/-1.101  $\chi^2$ /NDF: 2613.0/9

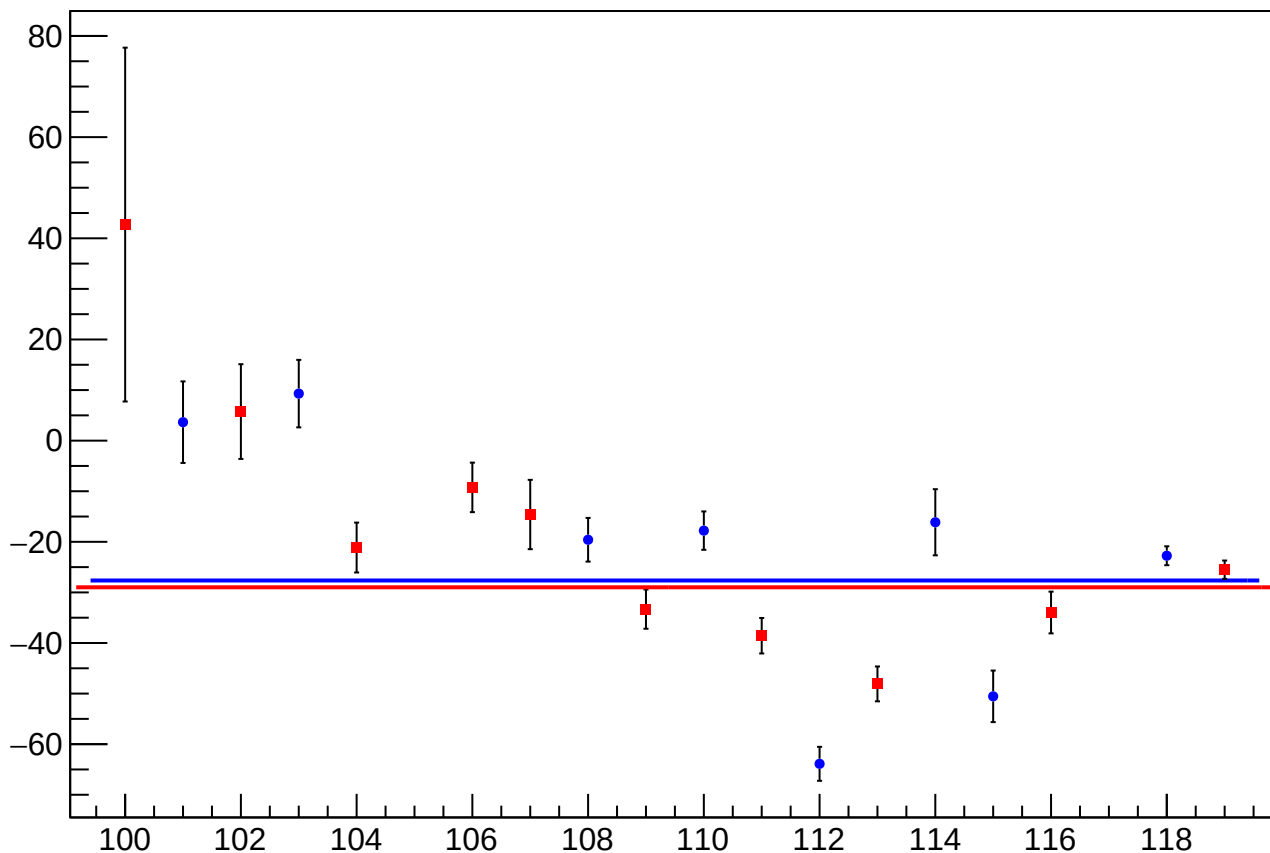
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 54.238+/-0.827  $\chi^2$ /NDF: 4954.7/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -27.644 $\pm$ 1.293  $\chi^2$ /NDF: 202.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -28.989 $\pm$ 1.186  $\chi^2$ /NDF: 85.7/9

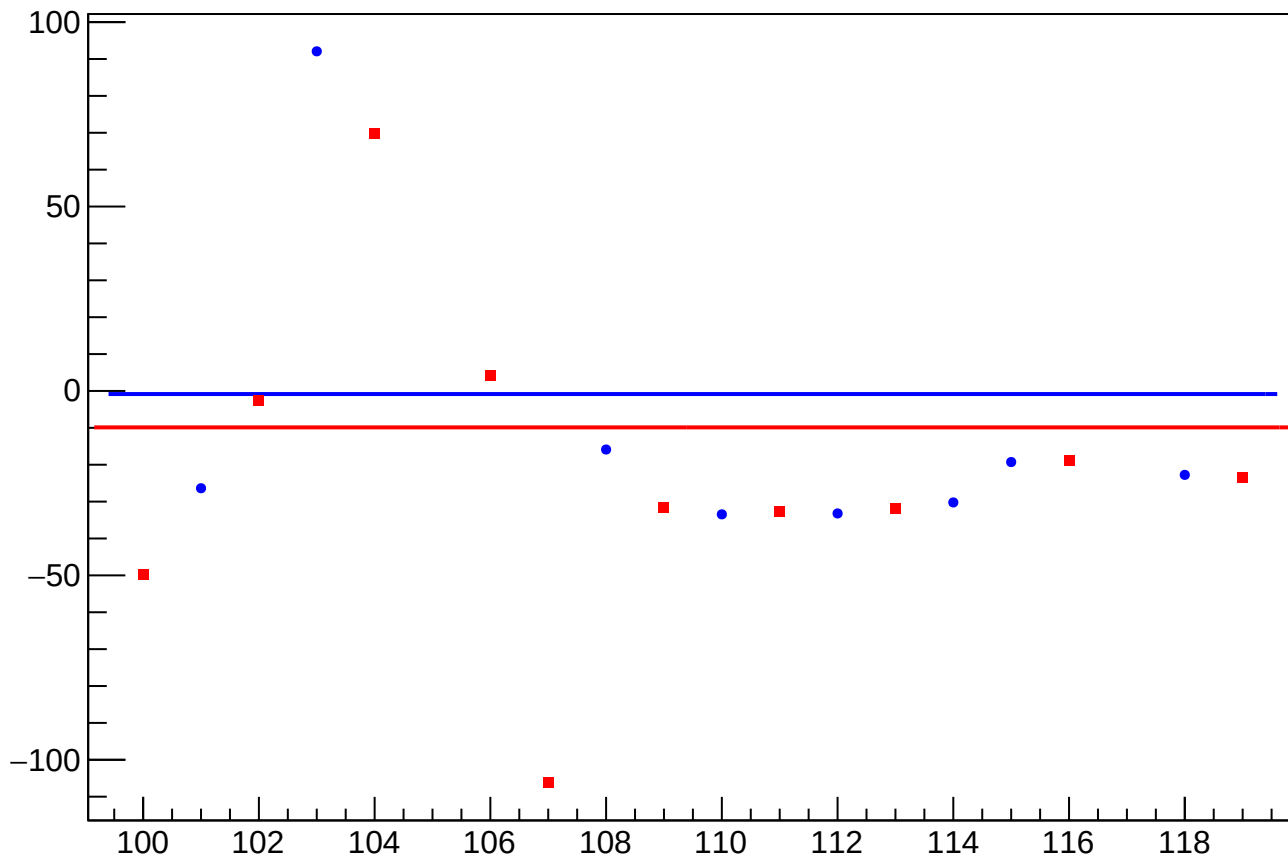
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -28.375 $\pm$ 0.874  $\chi^2$ /NDF: 289.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.838+/-0.078  $\chi^2/\text{NDF}$ : 351270.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9.877+/-0.071  $\chi^2/\text{NDF}$ : 307201.1/9

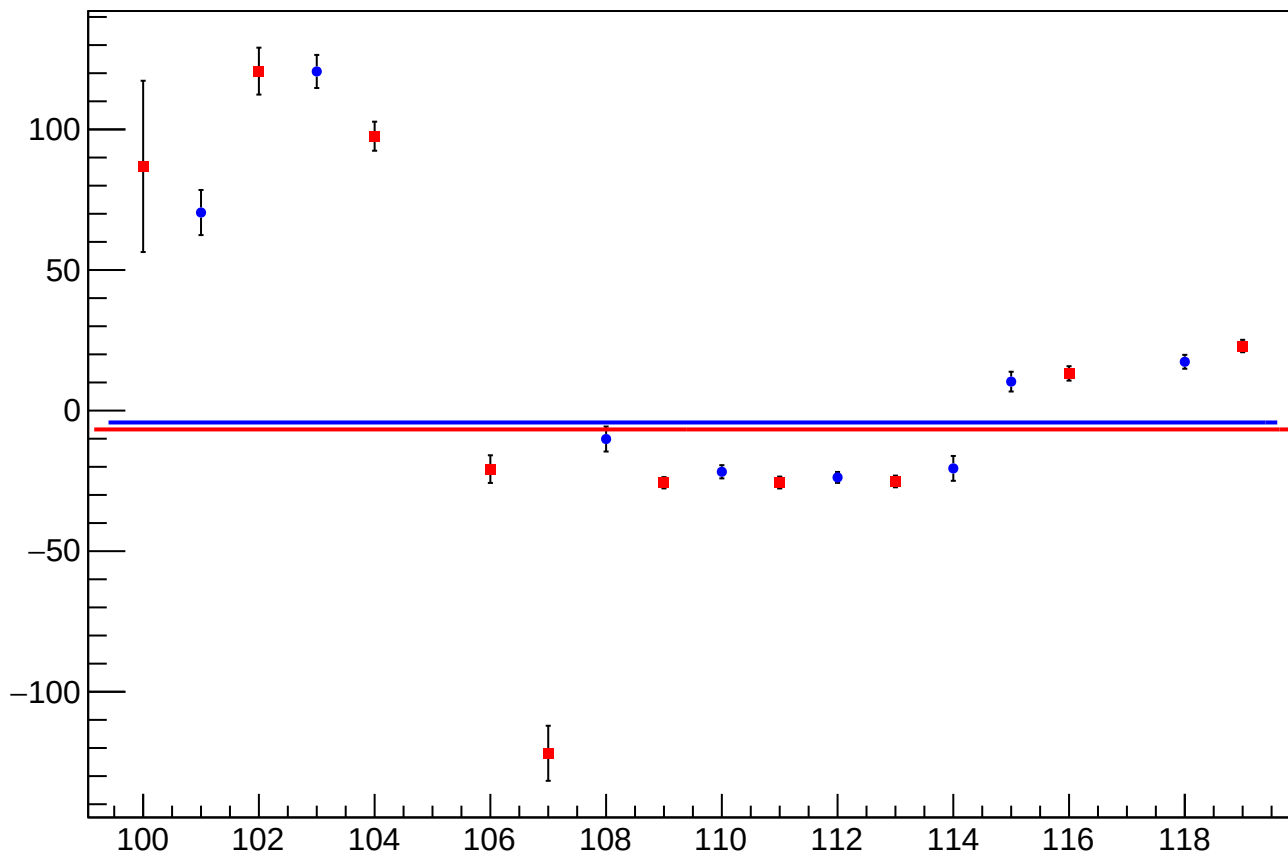
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.779+/-0.053  $\chi^2/\text{NDF}$ : 665774.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-4.227 \pm 1.094$   $\chi^2/\text{NDF}: 802.2/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-6.702 \pm 0.926$   $\chi^2/\text{NDF}: 1286.2/9$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

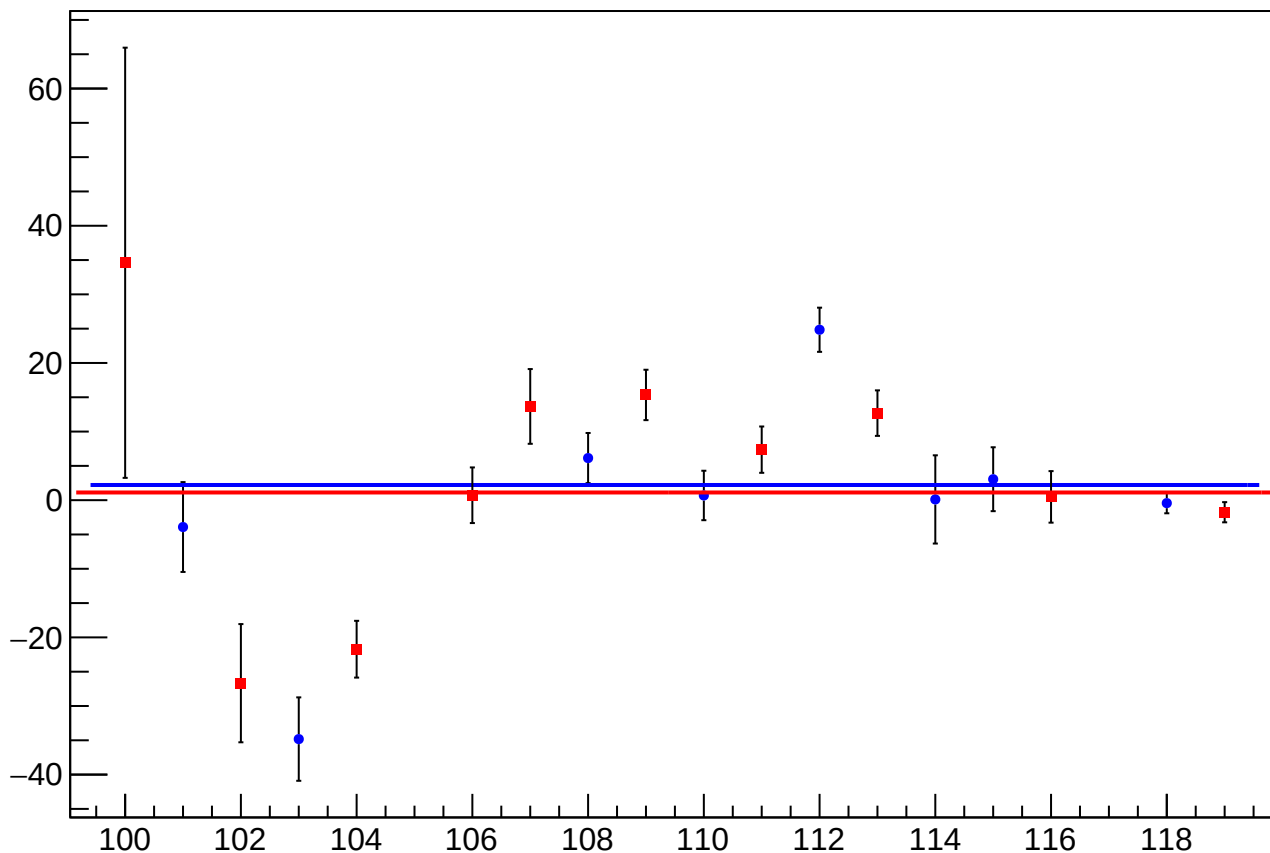
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-5.668 \pm 0.707$   $\chi^2/\text{NDF}: 2091.4/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$



# reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 2.213 $\pm$ 1.102  $\chi^2$ /NDF: 92.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.122 $\pm$ 1.024  $\chi^2$ /NDF: 81.8/9

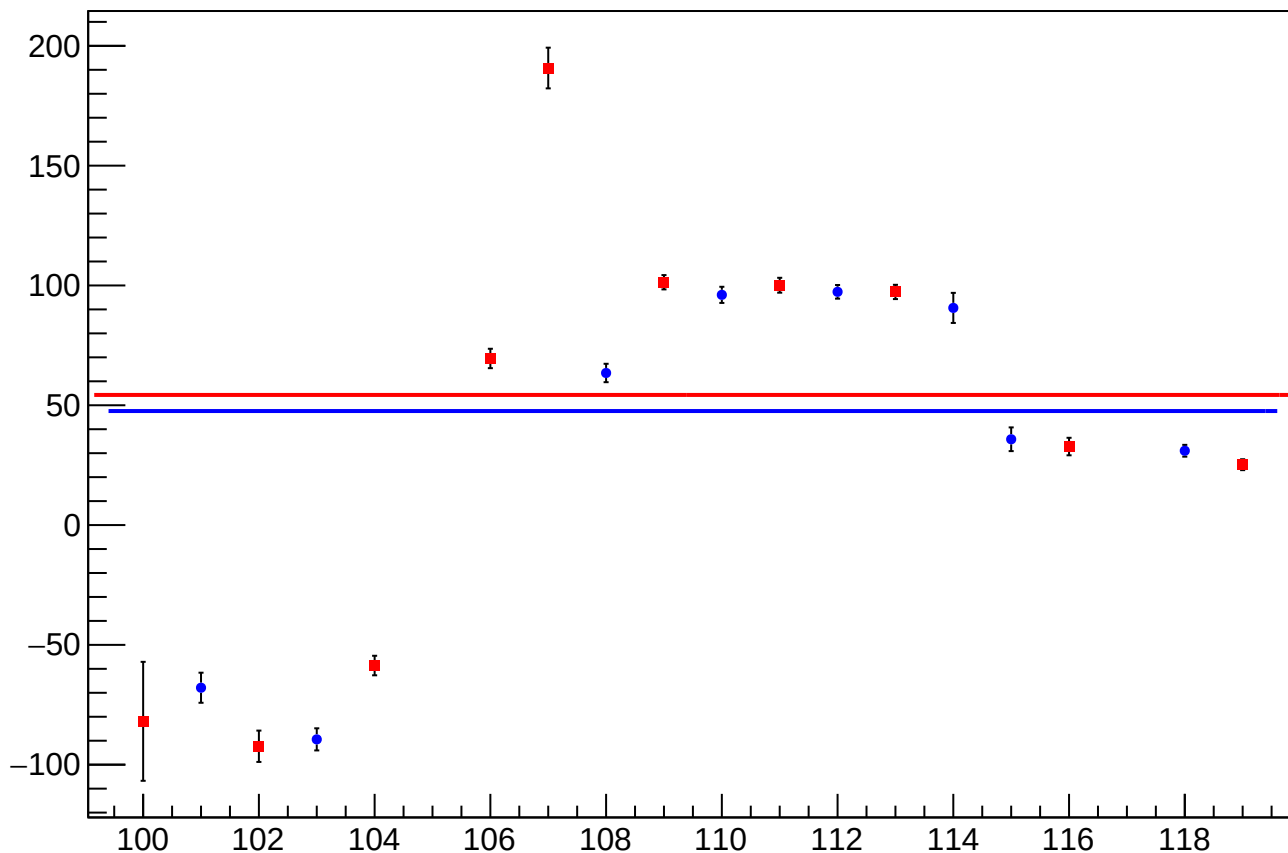
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.628 $\pm$ 0.750  $\chi^2$ /NDF: 174.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 47.589+/-1.310  $\chi^2/\text{NDF}$ : 1848.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 54.310+/-1.150  $\chi^2/\text{NDF}$ : 2444.4/9

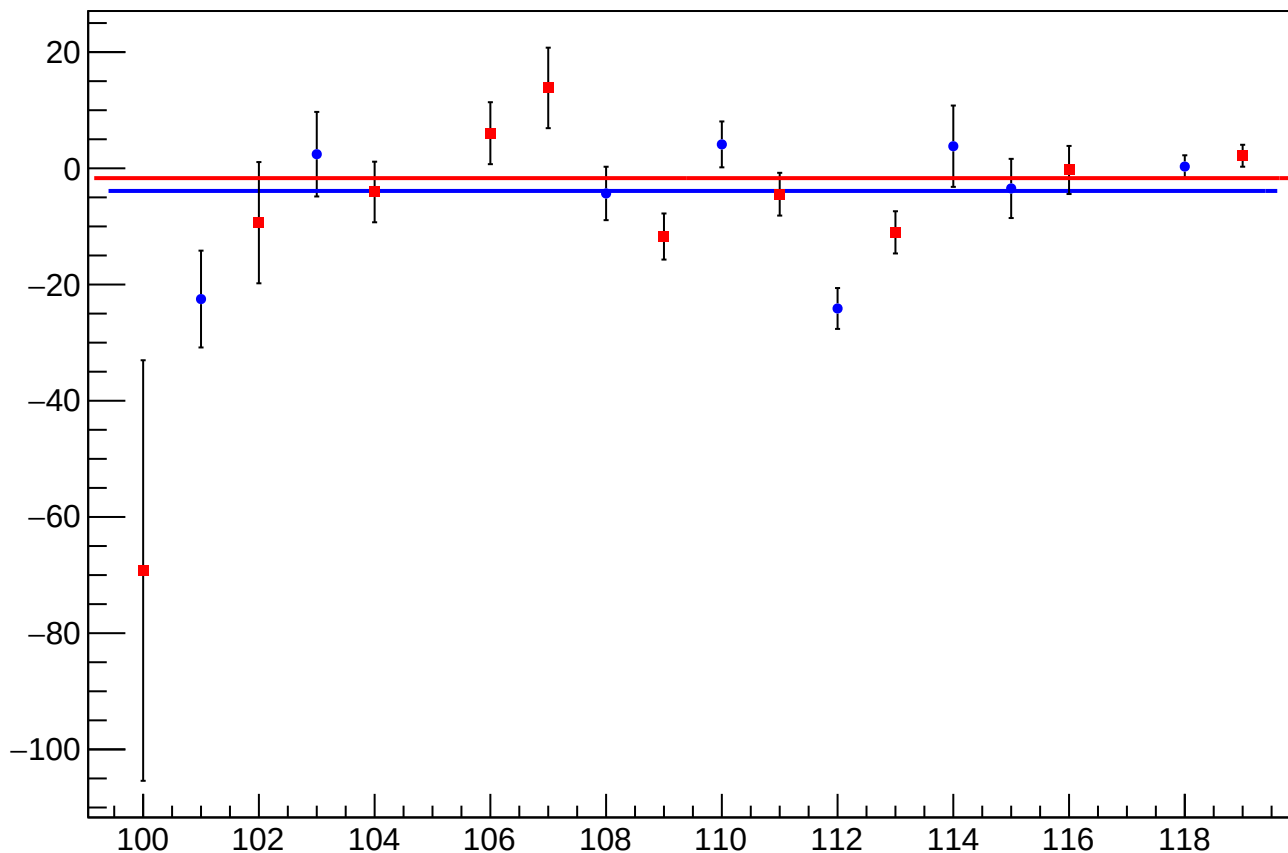
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.385+/-0.864  $\chi^2/\text{NDF}$ : 4307.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -3.893+/-1.348  $\chi^2/\text{NDF}$ : 48.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.688+/-1.235  $\chi^2/\text{NDF}$ : 29.2/9

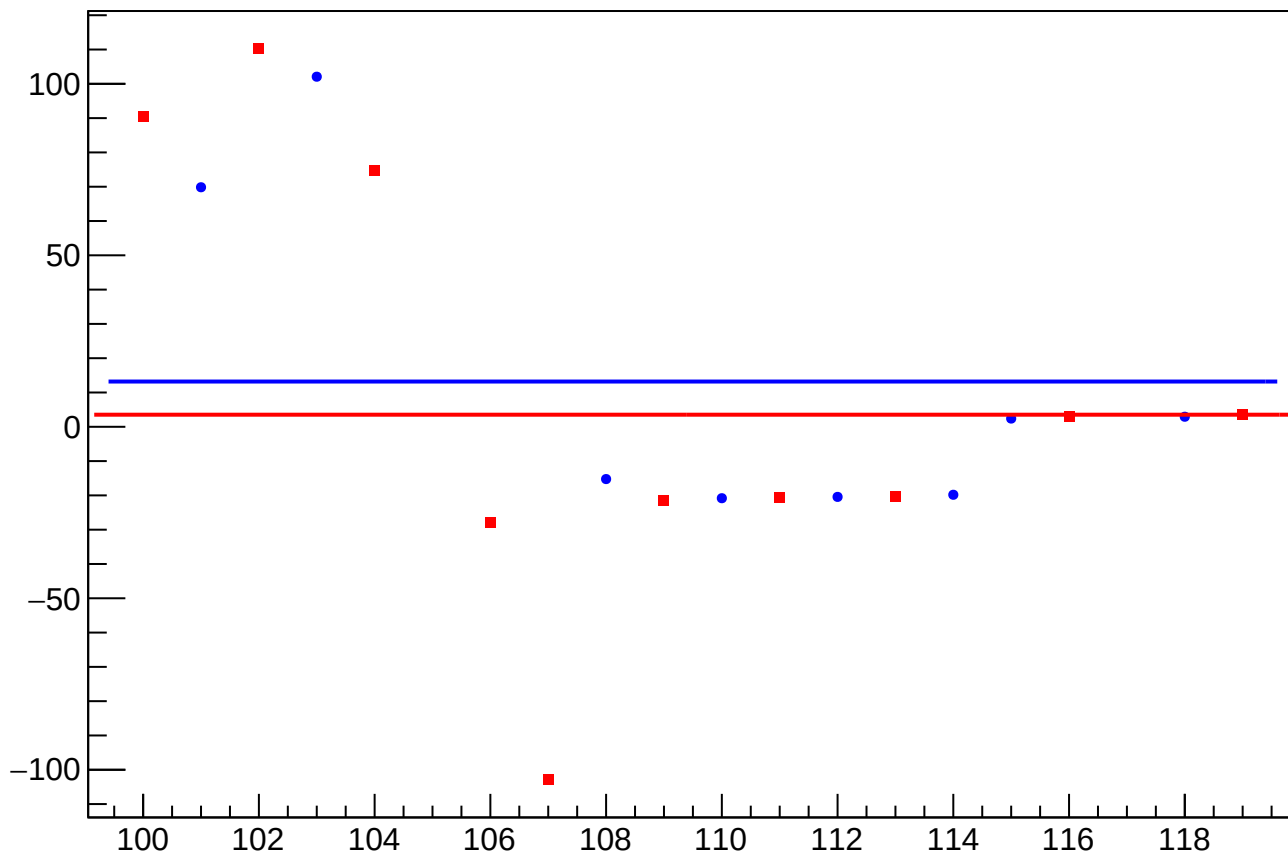
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.695+/-0.911  $\chi^2/\text{NDF}$ : 79.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 13.197+/-0.083  $\chi^2/\text{NDF}$ : 312349.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.526+/-0.075  $\chi^2/\text{NDF}$ : 434078.6/9

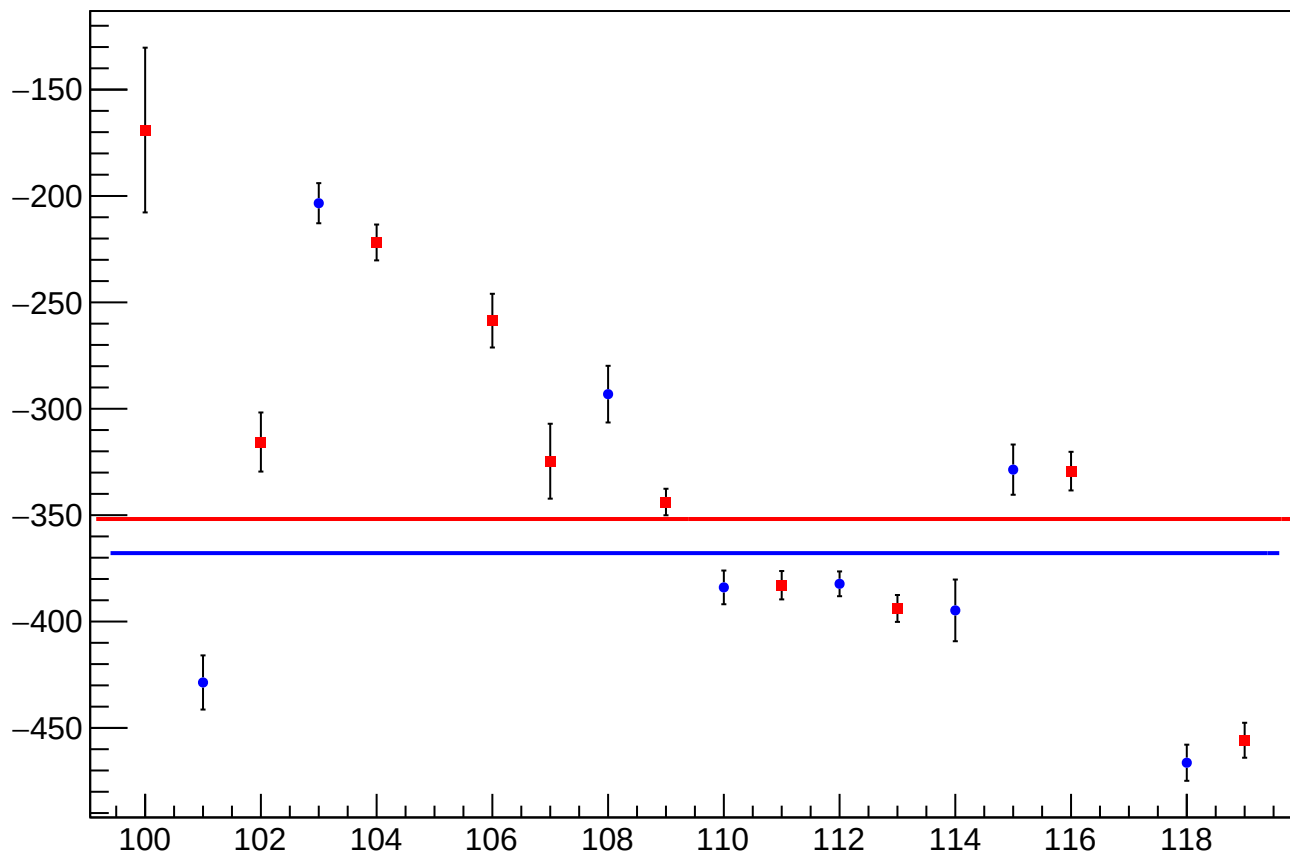
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.900+/-0.056  $\chi^2/\text{NDF}$ : 753918.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-367.843 \pm 3.257$   $\chi^2/\text{NDF}$ : 517.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-351.812 \pm 2.777$   $\chi^2/\text{NDF}$ : 558.1/9

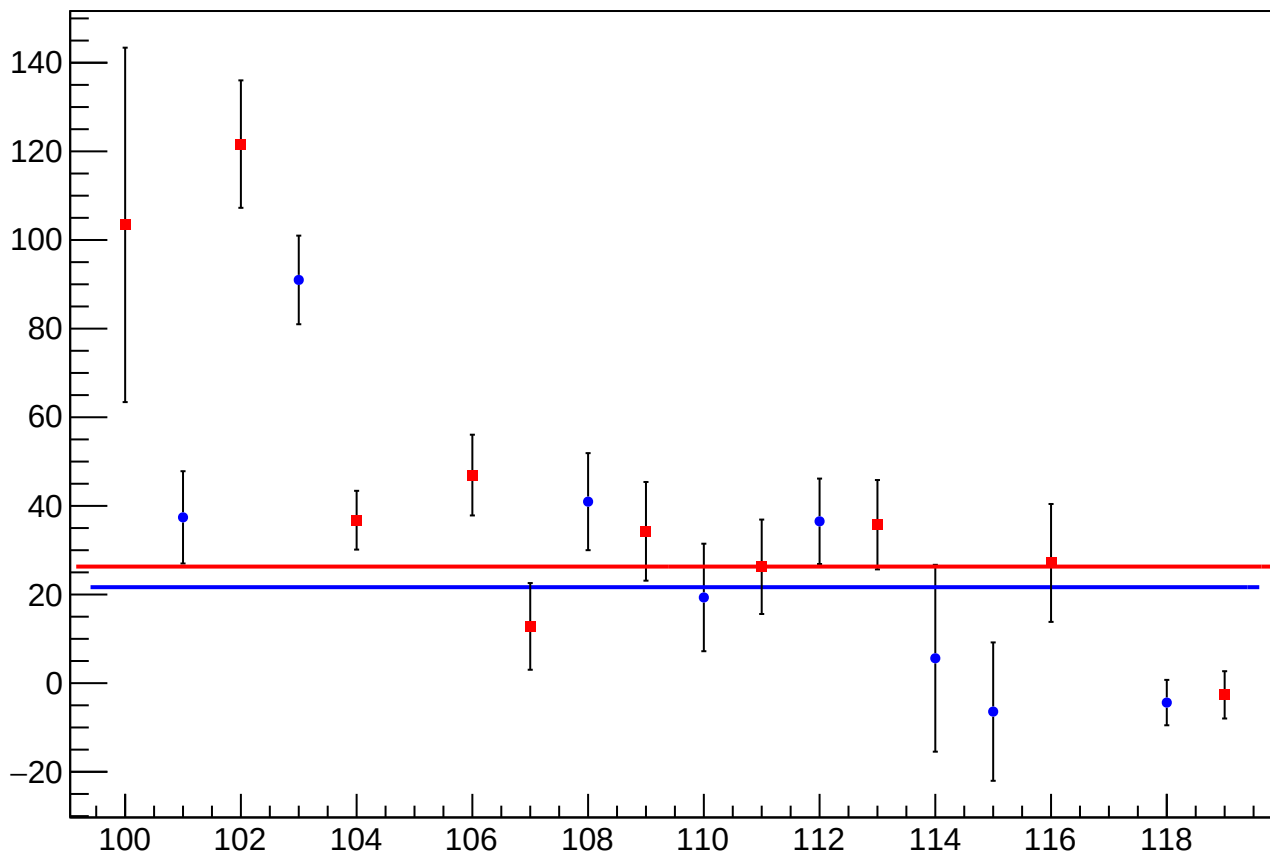
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-358.560 \pm 2.113$   $\chi^2/\text{NDF}$ : 1090.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 21.658+/-3.340  $\chi^2/\text{NDF}$ : 85.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26.306+/-2.909  $\chi^2/\text{NDF}$ : 88.0/9

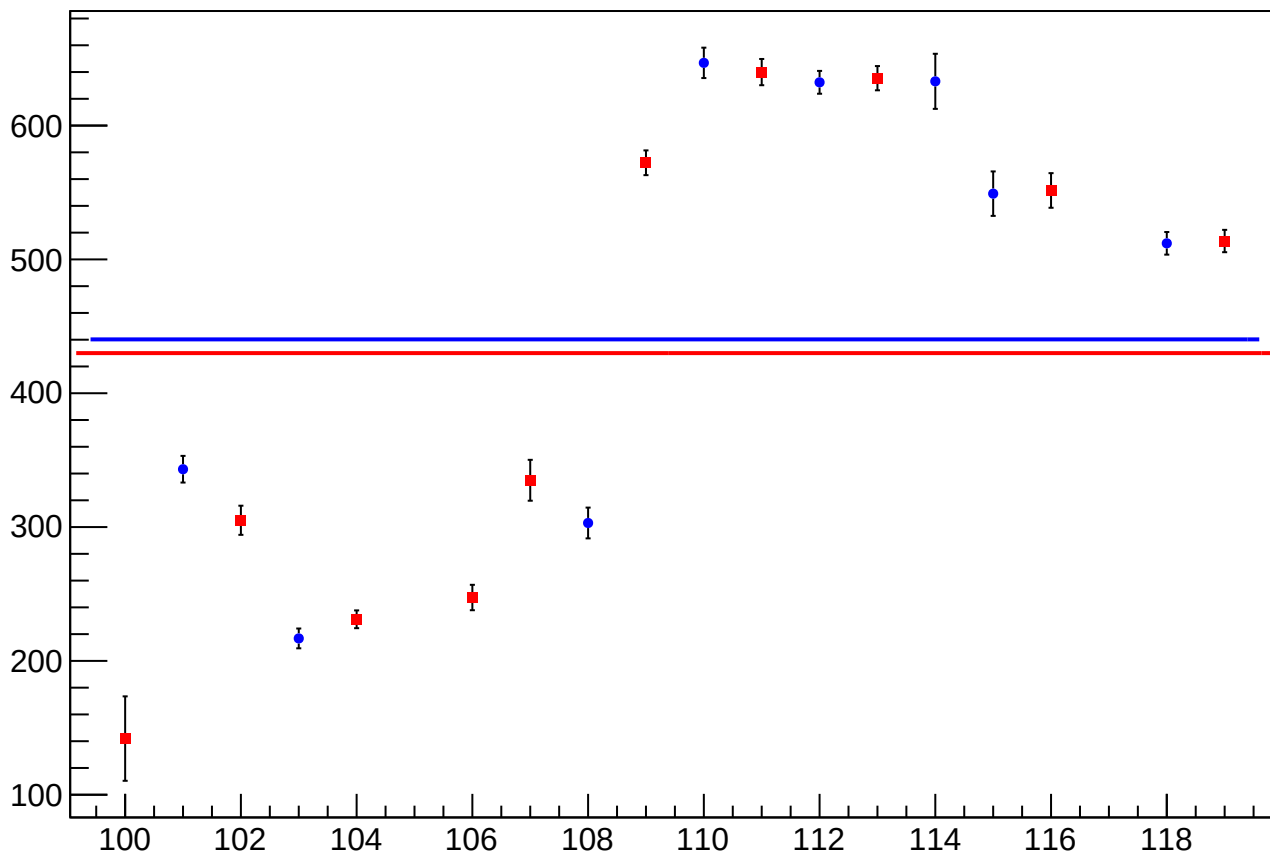
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.301+/-2.194  $\chi^2/\text{NDF}$ : 174.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 440.236+/-3.595  $\chi^2/\text{NDF}$ : 2190.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 429.984+/-3.130  $\chi^2/\text{NDF}$ : 2919.0/9

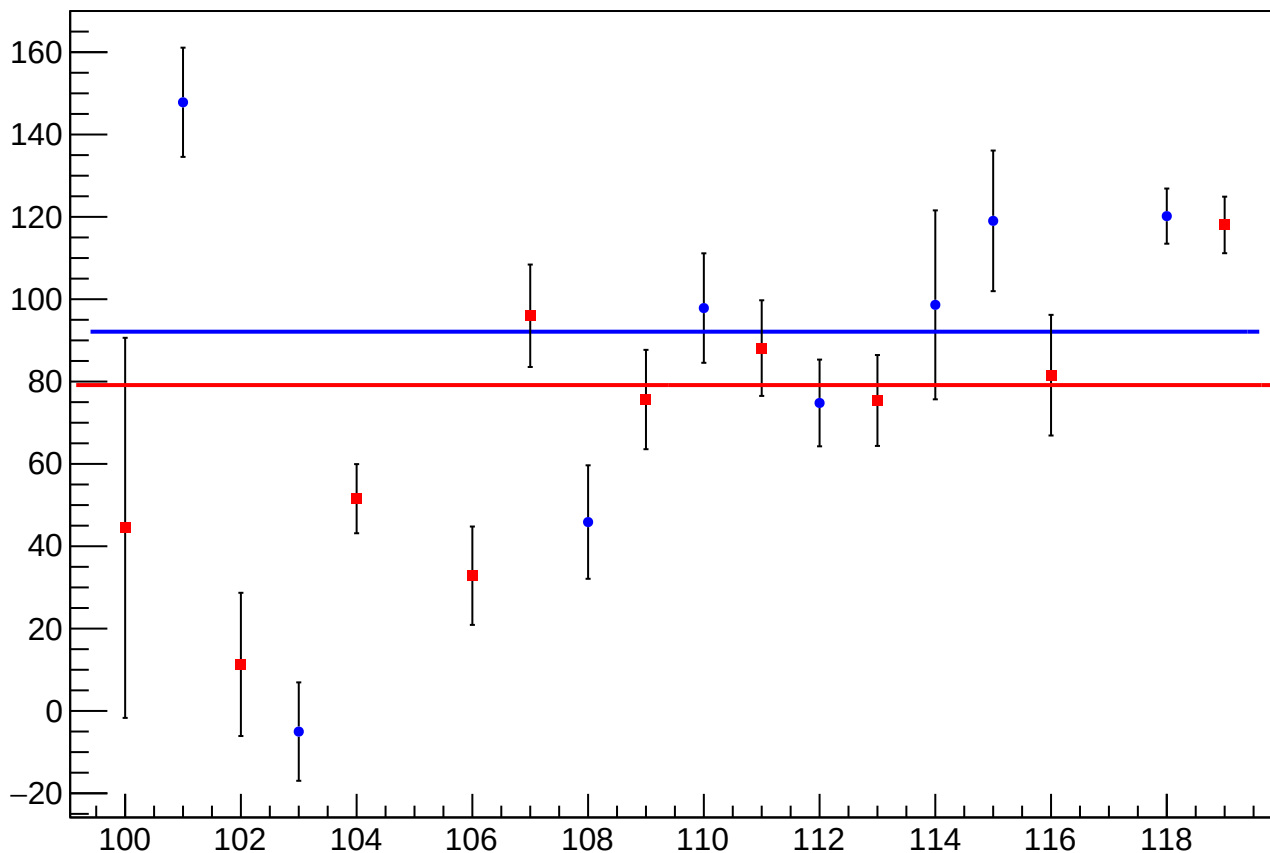
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 434.404+/-2.360  $\chi^2/\text{NDF}$ : 5113.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 92.113+/-4.074  $\chi^2/\text{NDF}$ : 118.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 79.147+/-3.540  $\chi^2/\text{NDF}$ : 76.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

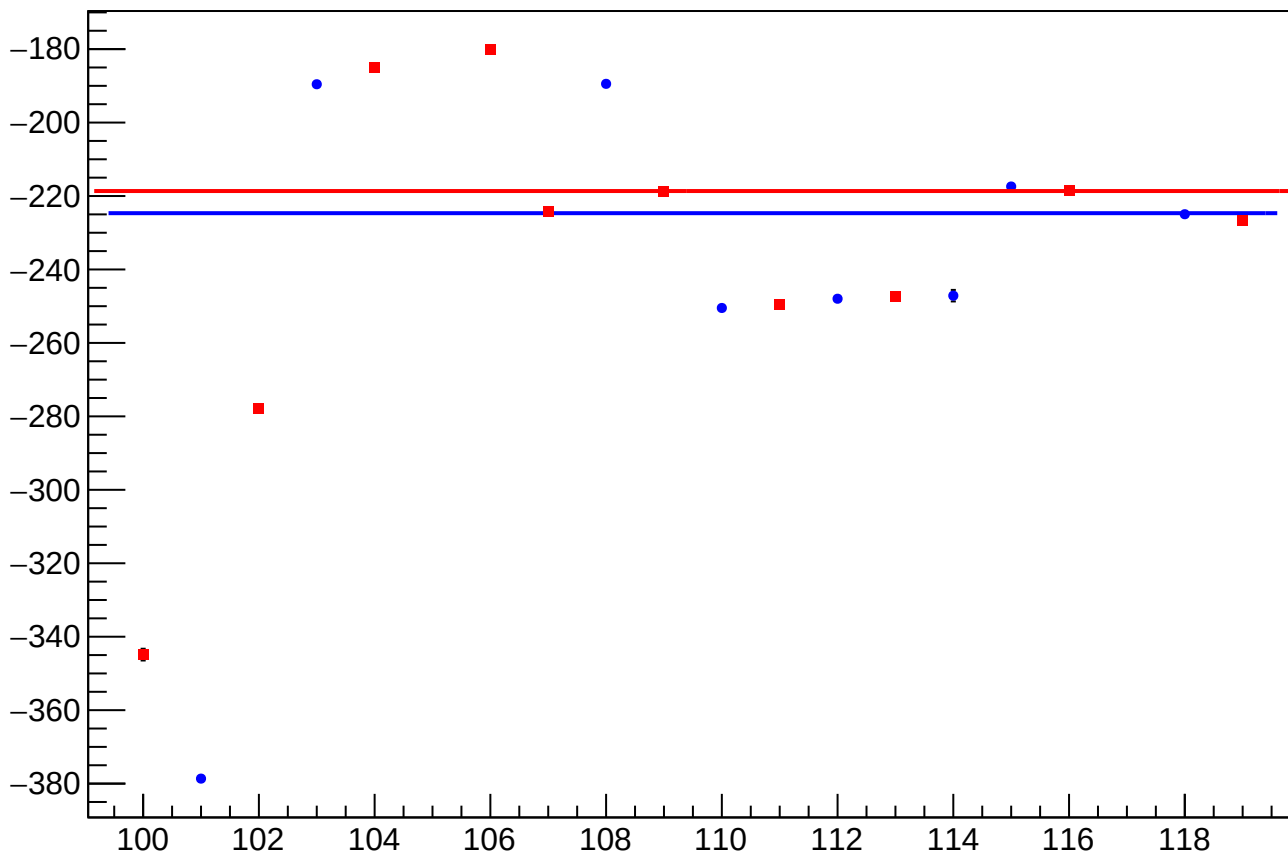
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 84.725+/-2.672  $\chi^2/\text{NDF}$ : 200.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -224.673 $\pm$ 0.203  $\chi^2$ /NDF: 87600.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -218.643 $\pm$ 0.182  $\chi^2$ /NDF: 41837.0/9

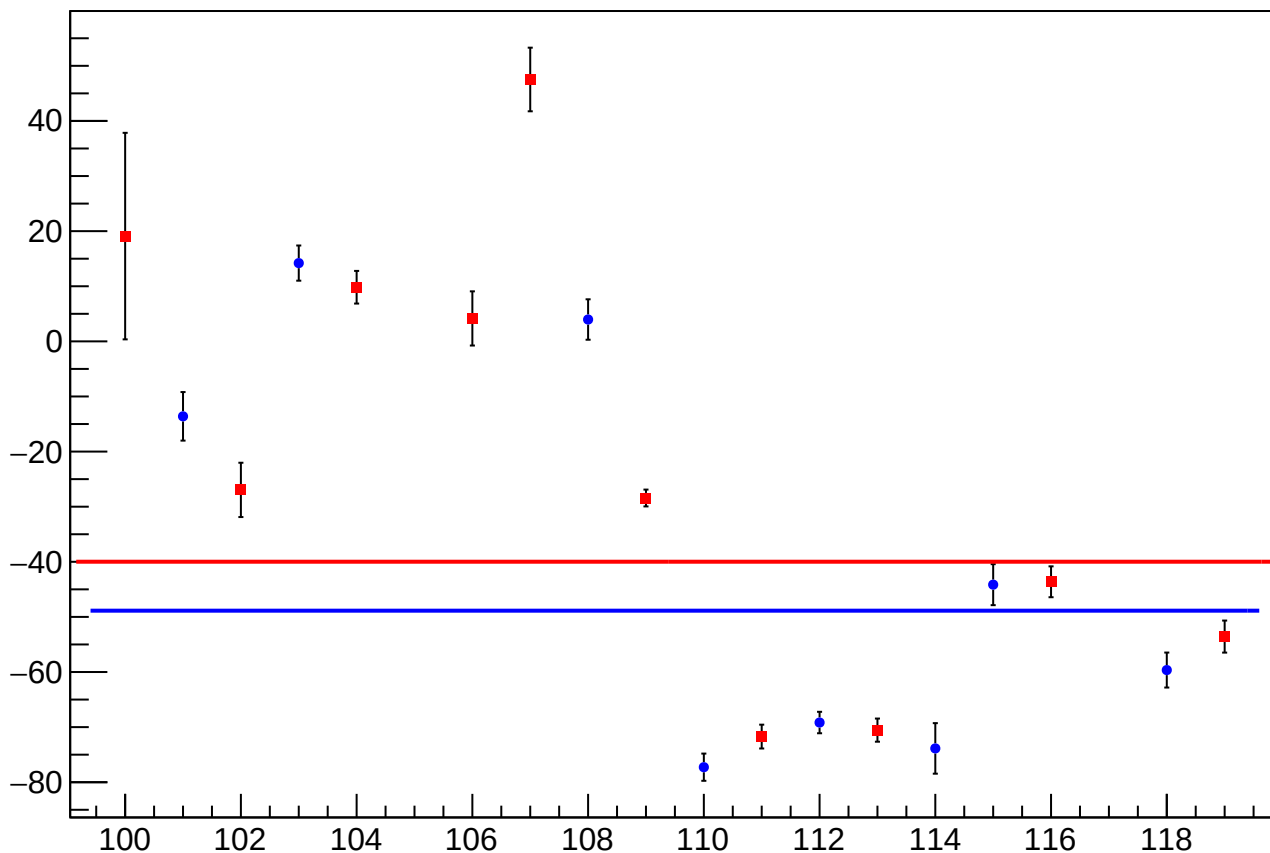
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -221.338 $\pm$ 0.135  $\chi^2$ /NDF: 129927.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-48.870 \pm 1.071$   $\chi^2/\text{NDF}$ : 945.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-39.985 \pm 0.862$   $\chi^2/\text{NDF}$ : 1118.1/9

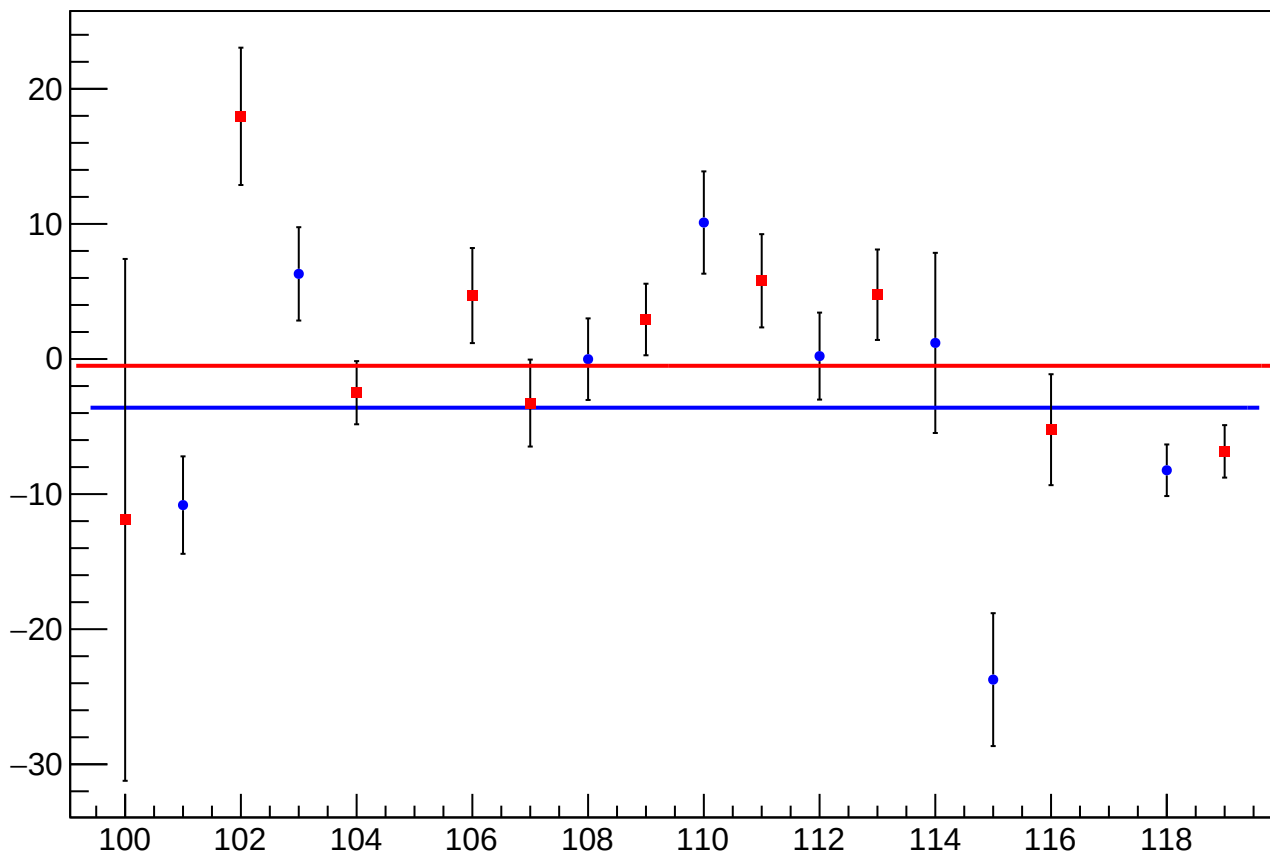
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-43.478 \pm 0.672$   $\chi^2/\text{NDF}$ : 2105.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -3.604 $\pm$ 1.136  $\chi^2$ /NDF: 51.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.502 $\pm$ 0.980  $\chi^2$ /NDF: 36.6/9

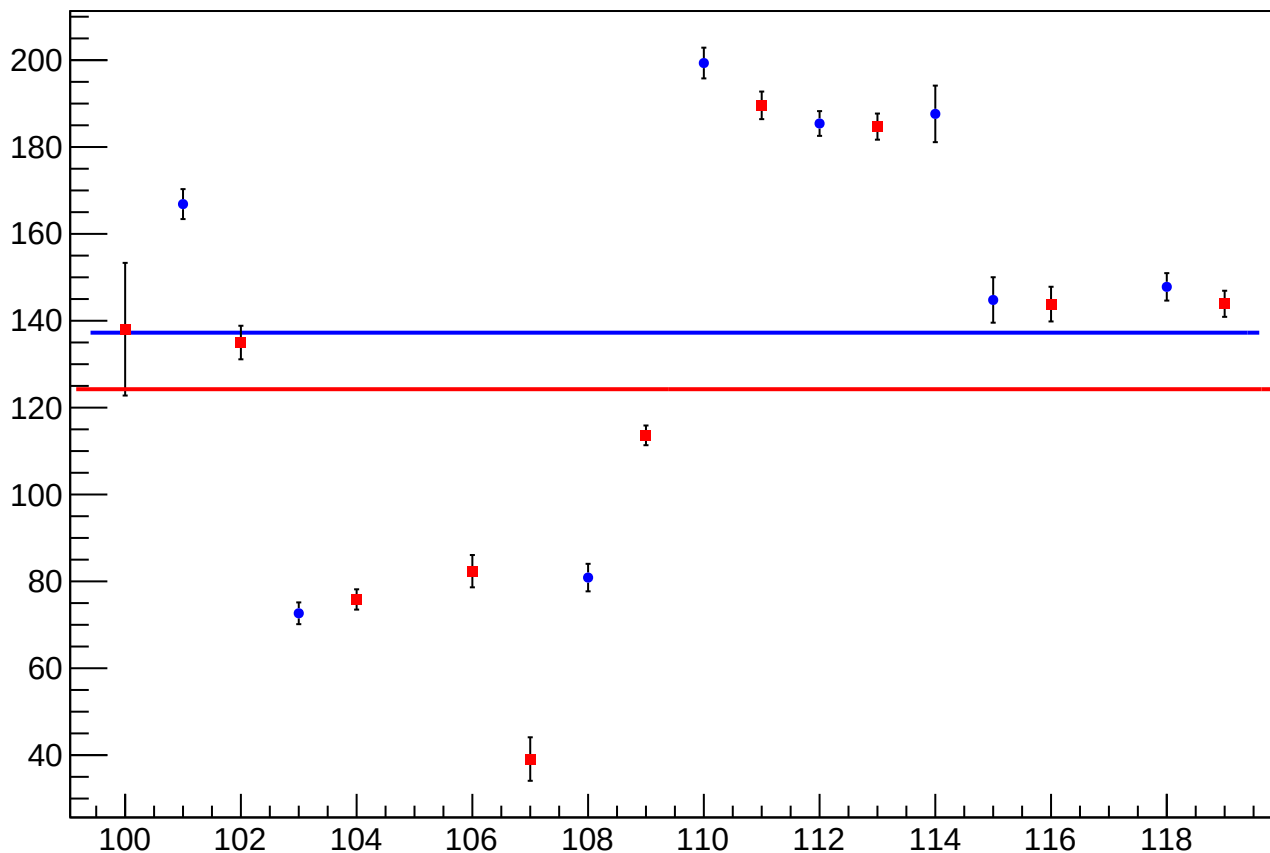
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.825 $\pm$ 0.742  $\chi^2$ /NDF: 92.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 137.255 $\pm$ 1.190  $\chi^2$ /NDF: 1721.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 124.243 $\pm$ 1.029  $\chi^2$ /NDF: 1769.6/9

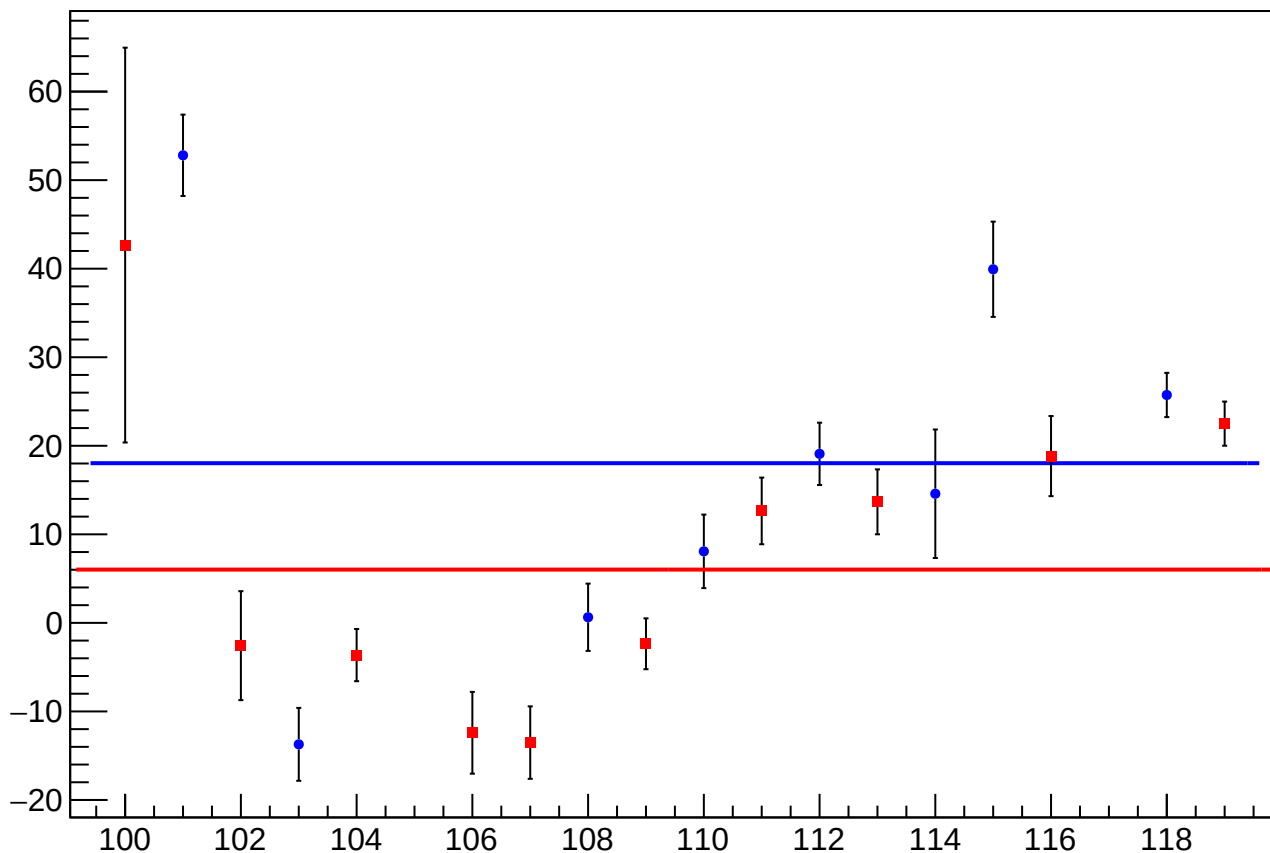
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 129.812 $\pm$ 0.778  $\chi^2$ /NDF: 3559.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 18.035 $\pm$ 1.376  $\chi^2$ /NDF: 169.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6.019 $\pm$ 1.174  $\chi^2$ /NDF: 121.8/9

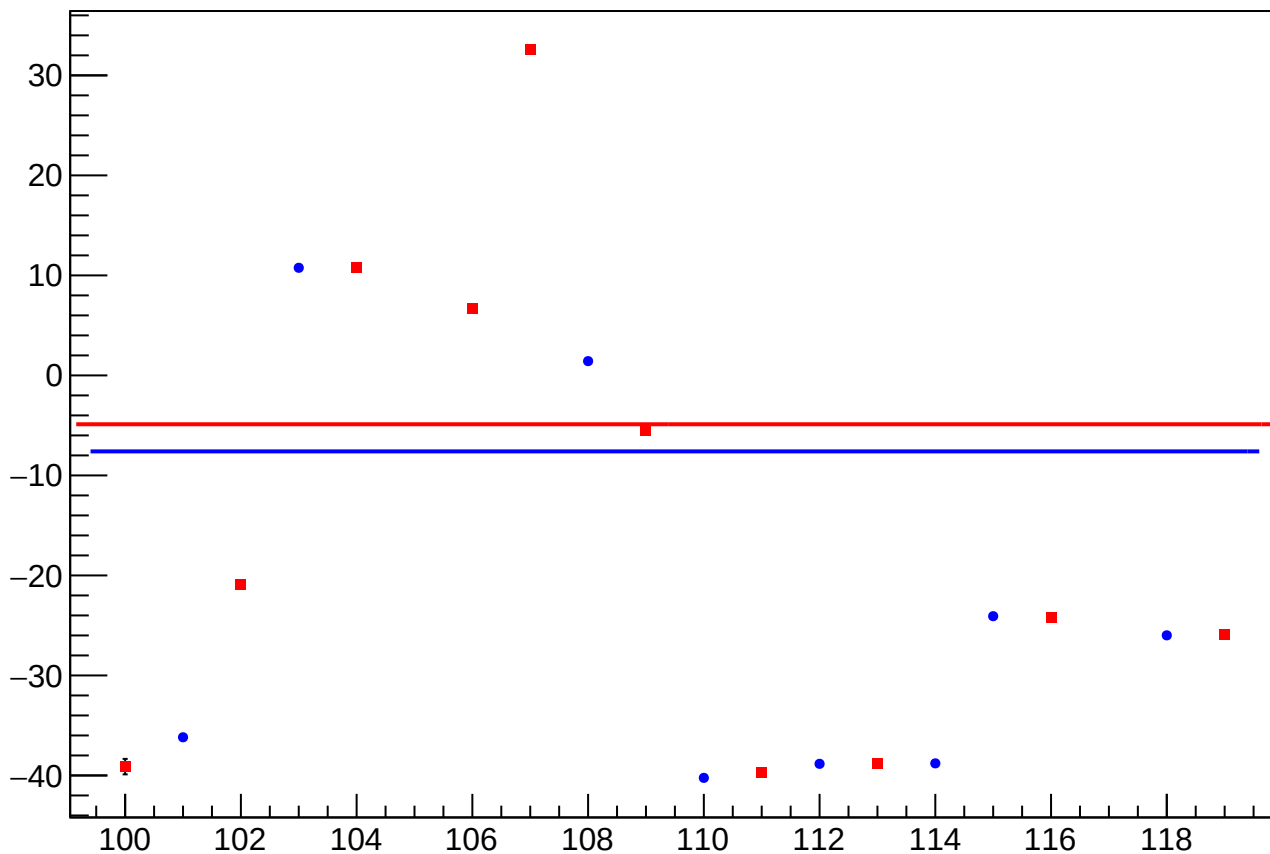
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.080 $\pm$ 0.893  $\chi^2$ /NDF: 335.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -7.597 $\pm$ 0.065  $\chi^2$ /NDF: 98138.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4.885 $\pm$ 0.061  $\chi^2$ /NDF: 120907.5/9

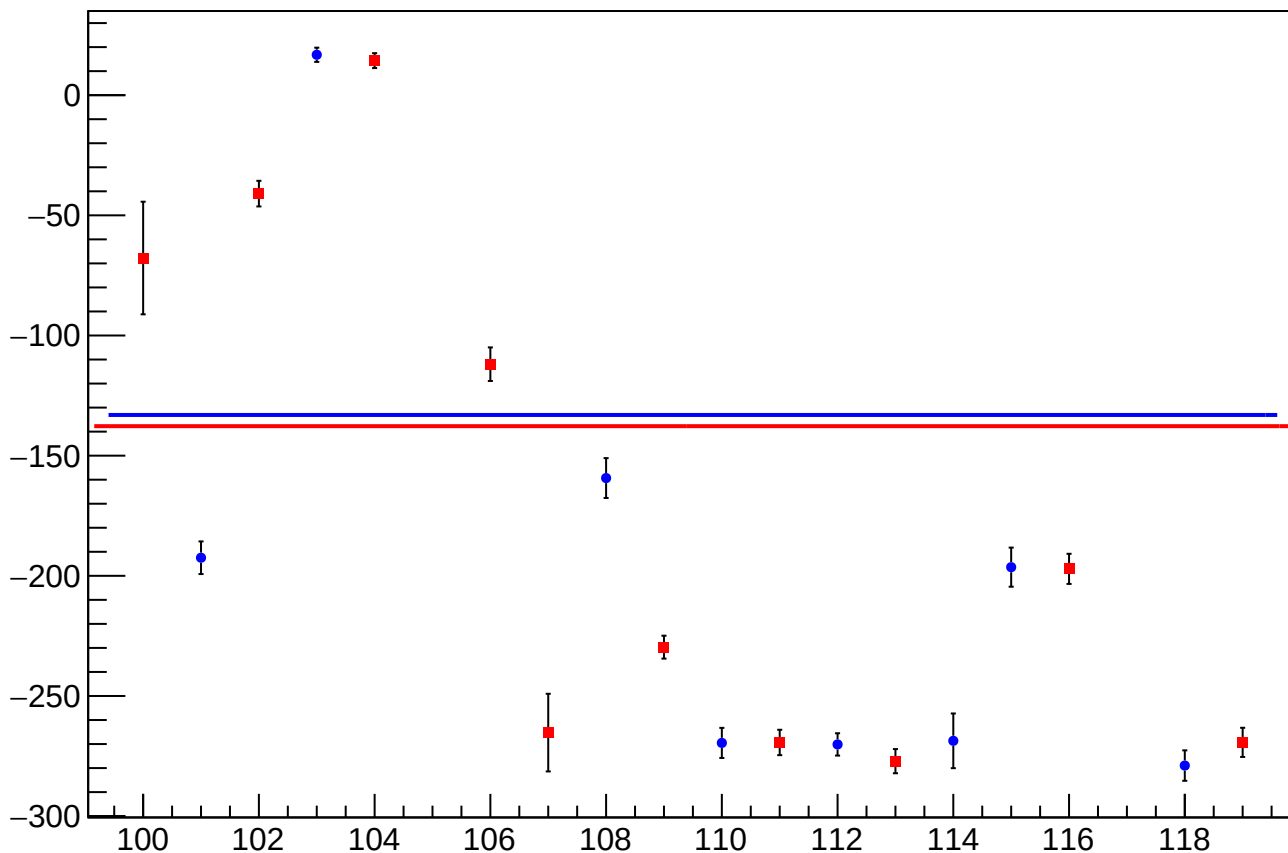
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.149 $\pm$ 0.045  $\chi^2$ /NDF: 219961.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -133.065 $\pm$ 1.924  $\chi^2$ /NDF: 4735.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -137.729 $\pm$ 1.722  $\chi^2$ /NDF: 5137.1/9

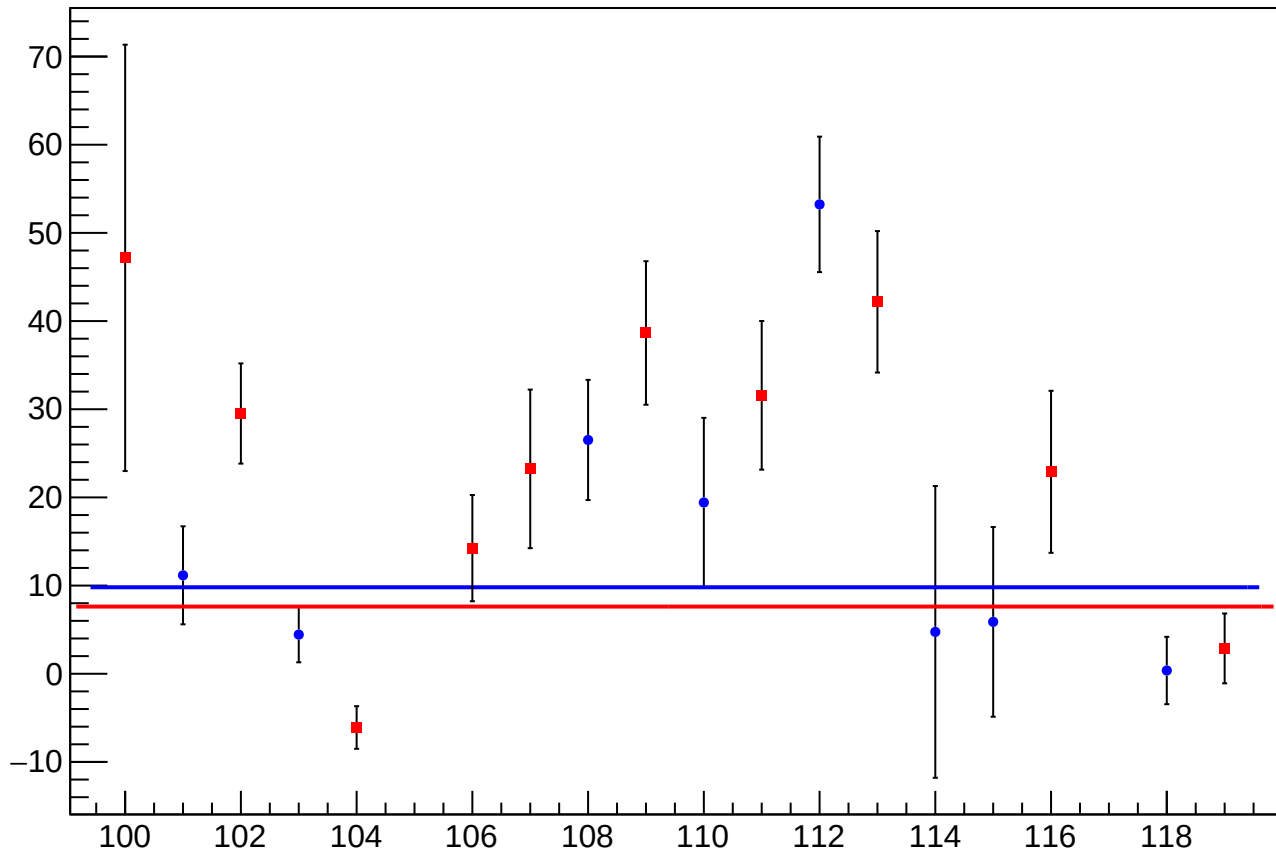
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -135.654 $\pm$ 1.283  $\chi^2$ /NDF: 9875.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 9.809 $\pm$ 1.947  $\chi^2$ /NDF: 48.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7.620 $\pm$ 1.658  $\chi^2$ /NDF: 99.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

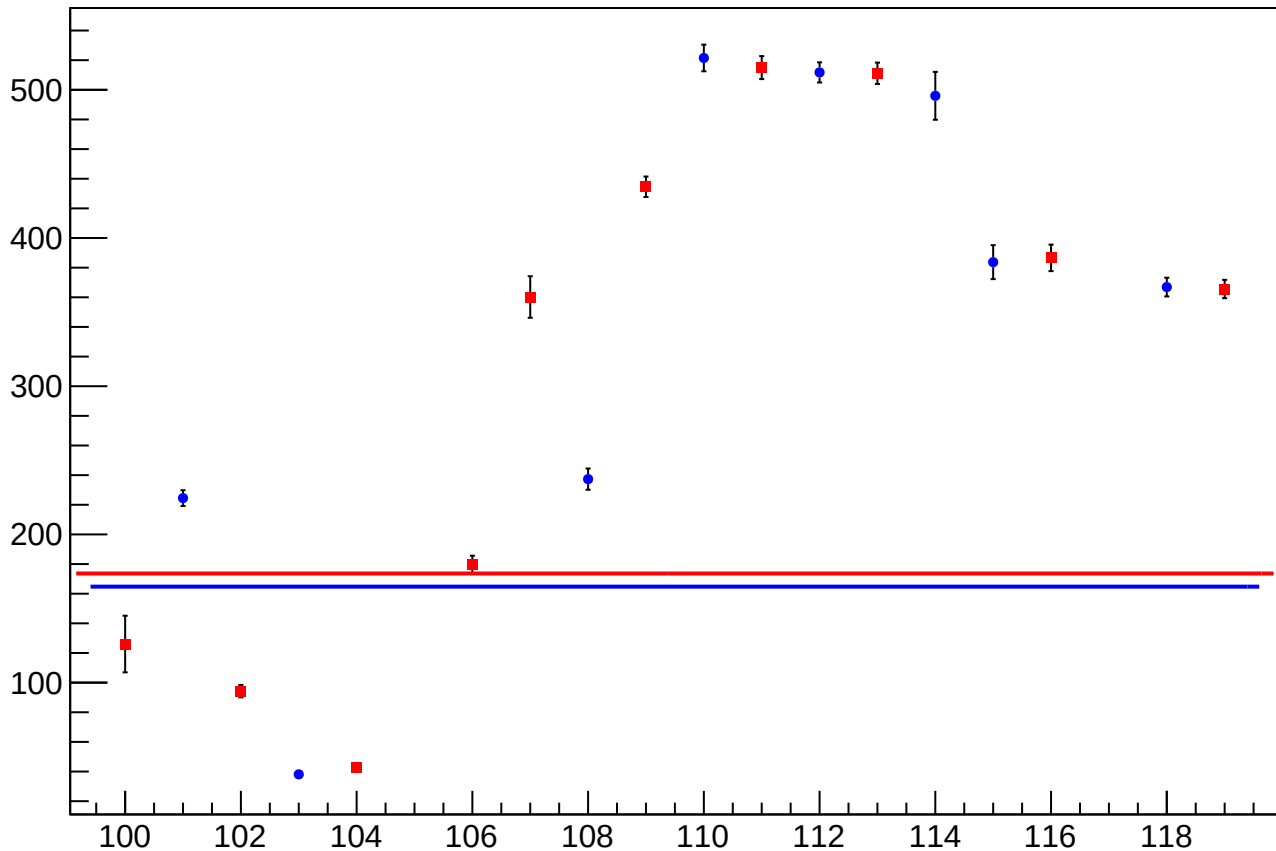
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8.540 $\pm$ 1.262  $\chi^2$ /NDF: 148.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 164.761 $\pm$ 1.793  $\chi^2$ /NDF: 9199.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 173.630 $\pm$ 1.674  $\chi^2$ /NDF: 10484.0/9

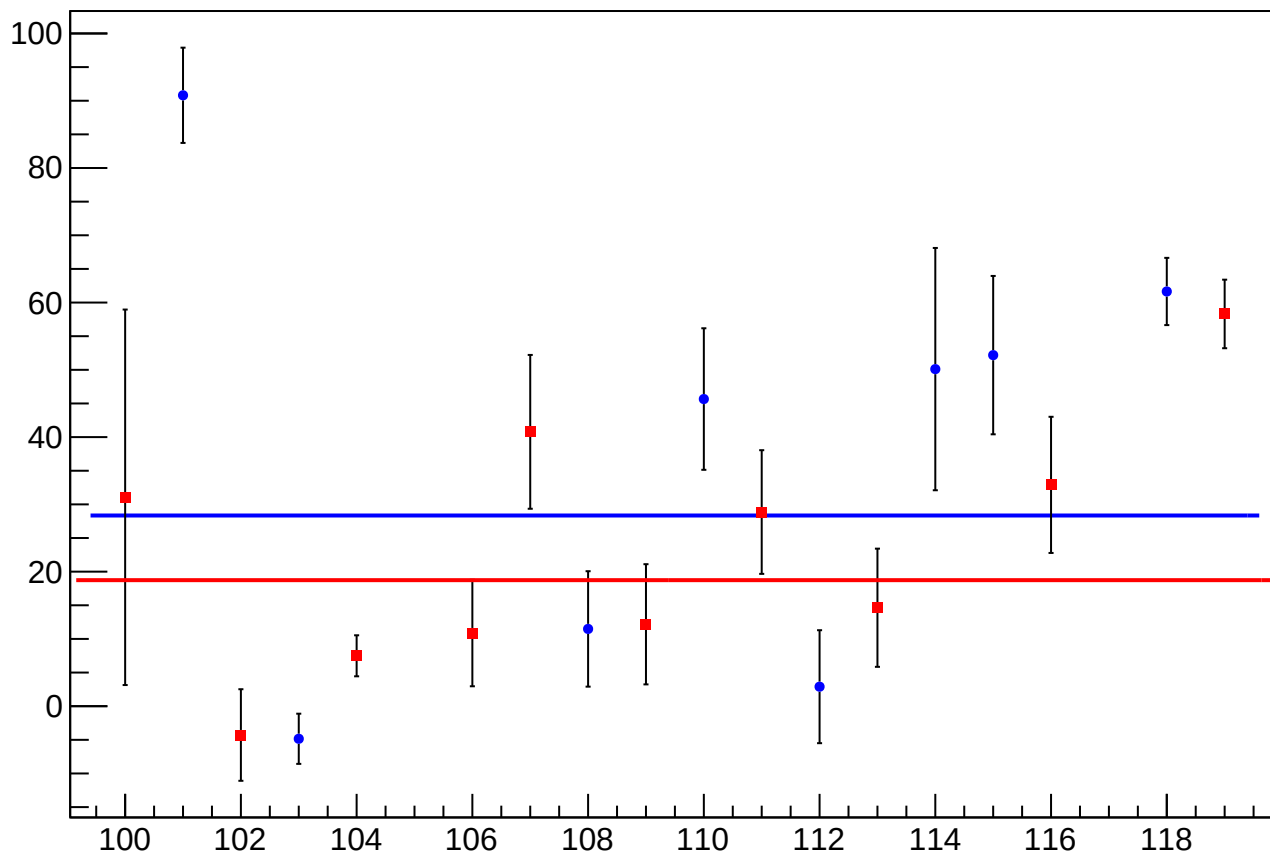
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 169.501 $\pm$ 1.224  $\chi^2$ /NDF: 19696.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 28.346 $\pm$ 2.364  $\chi^2$ /NDF: 222.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18.735 $\pm$ 2.043  $\chi^2$ /NDF: 94.2/9

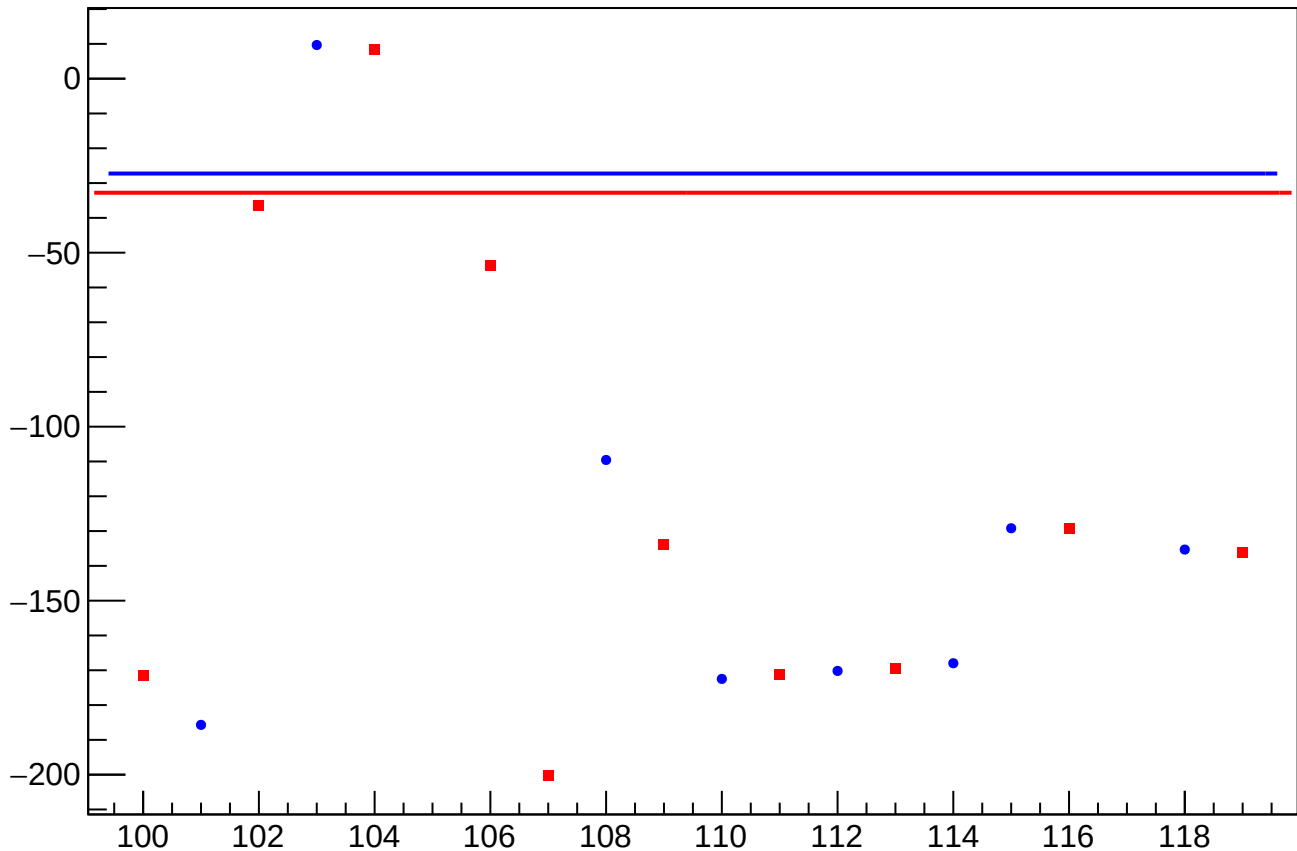
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 22.844 $\pm$ 1.546  $\chi^2$ /NDF: 326.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-27.258 \pm 0.084$   $\chi^2/\text{NDF}$ : 660267.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-32.775 \pm 0.084$   $\chi^2/\text{NDF}$ : 467104.7/9

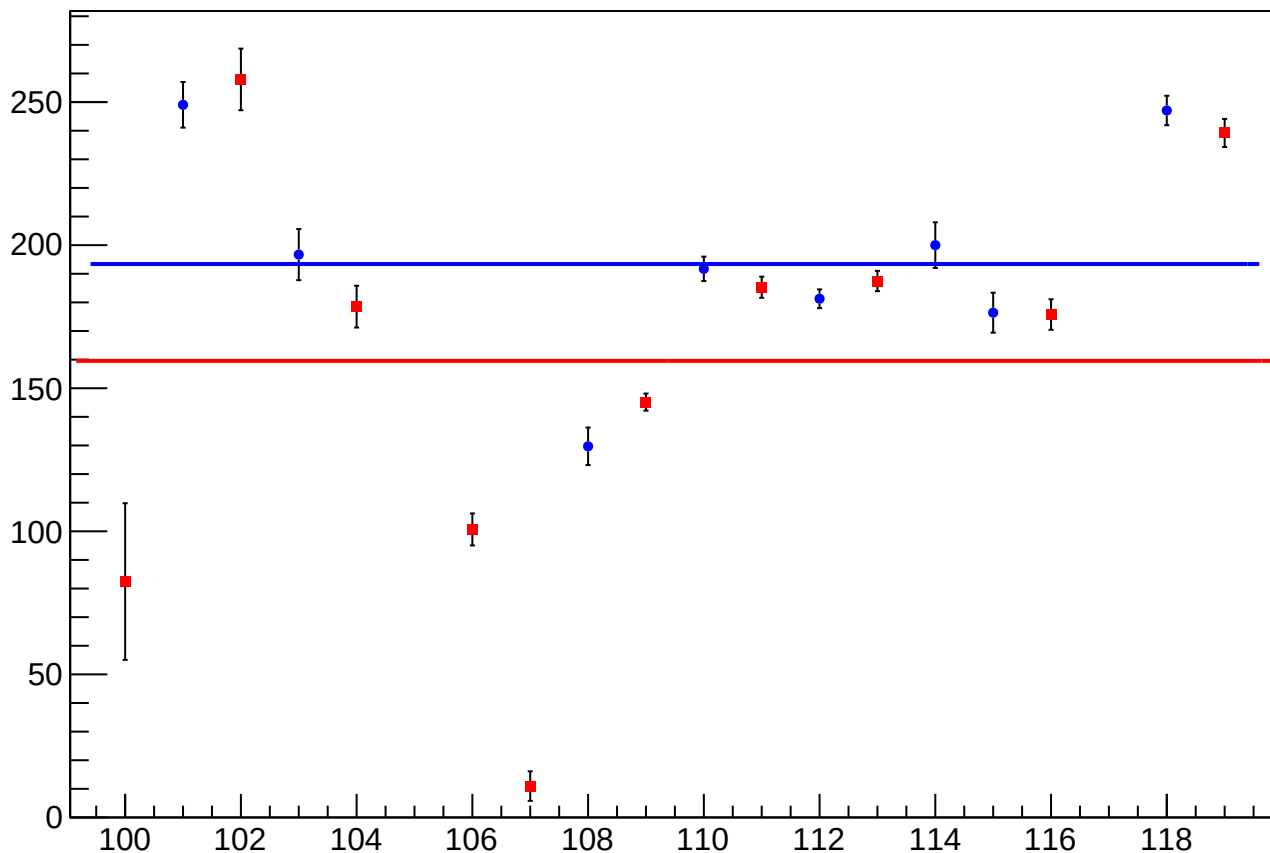
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-30.027 \pm 0.060$   $\chi^2/\text{NDF}$ : 1129519.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 193.413 $\pm$ 1.911  $\chi^2$ /NDF: 272.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 159.575 $\pm$ 1.508  $\chi^2$ /NDF: 1445.6/9

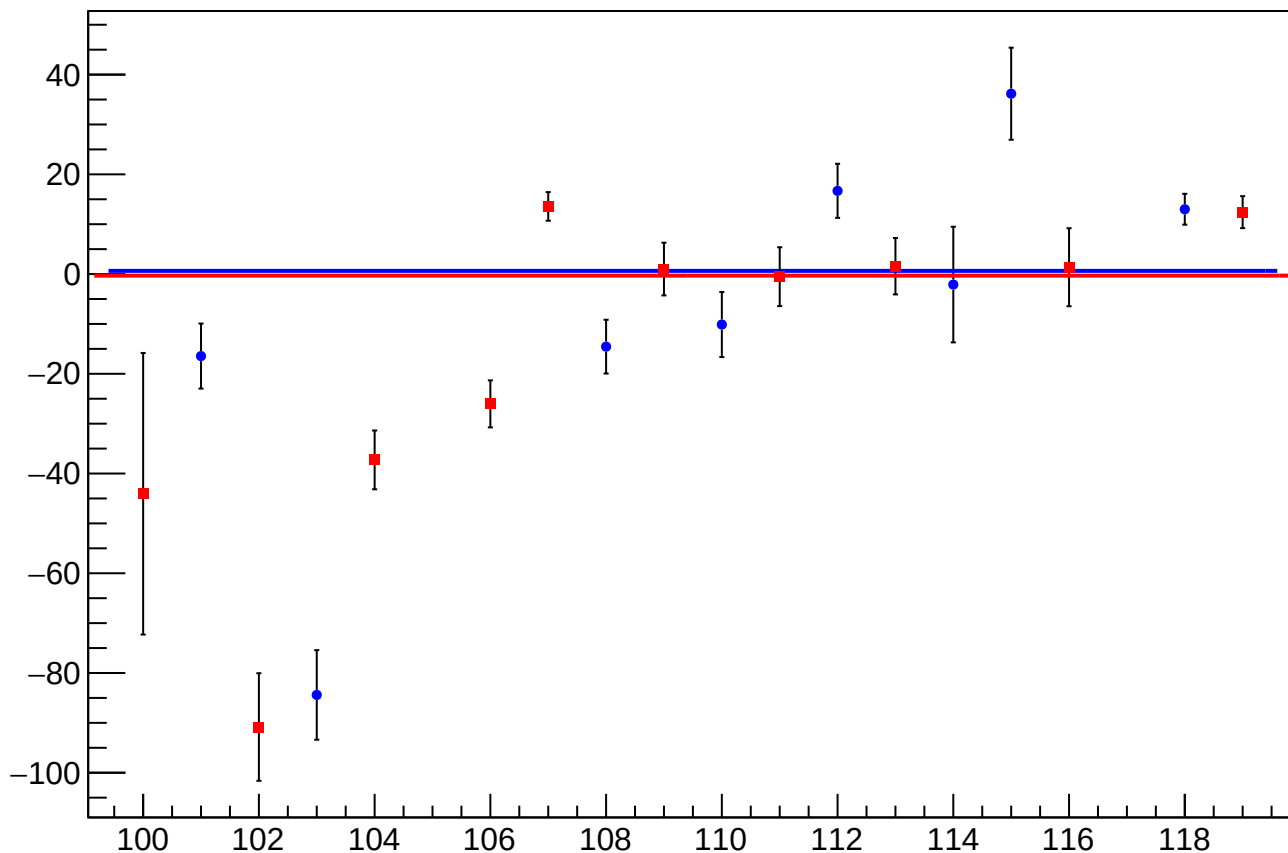
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 172.558 $\pm$ 1.184  $\chi^2$ /NDF: 1911.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.645 $\pm$ 1.995  $\chi^2$ /NDF: 146.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.313 $\pm$ 1.553  $\chi^2$ /NDF: 181.2/9

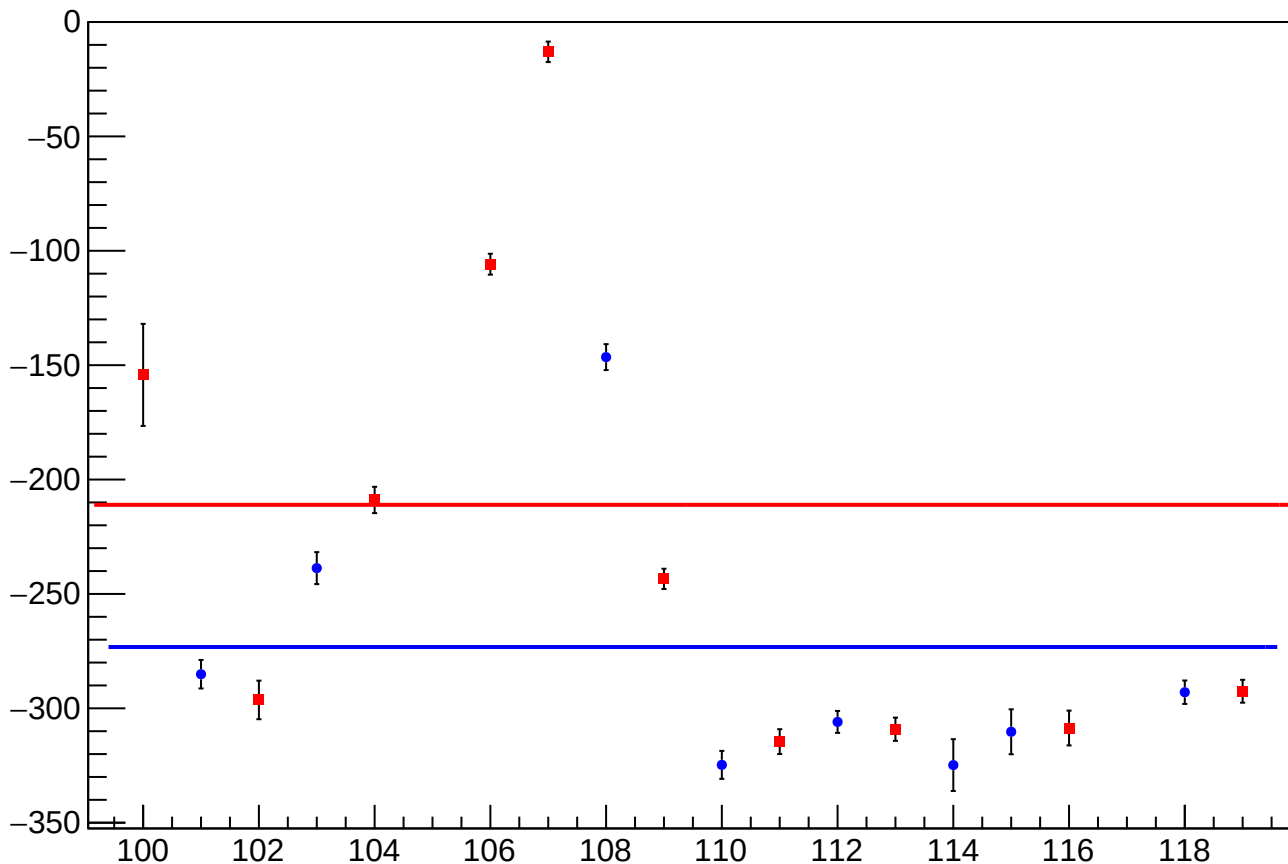
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.048 $\pm$ 1.226  $\chi^2$ /NDF: 328.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-273.202 \pm 2.214$   $\chi^2/\text{NDF}$ : 695.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-211.053 \pm 1.754$   $\chi^2/\text{NDF}$ : 3815.8/9

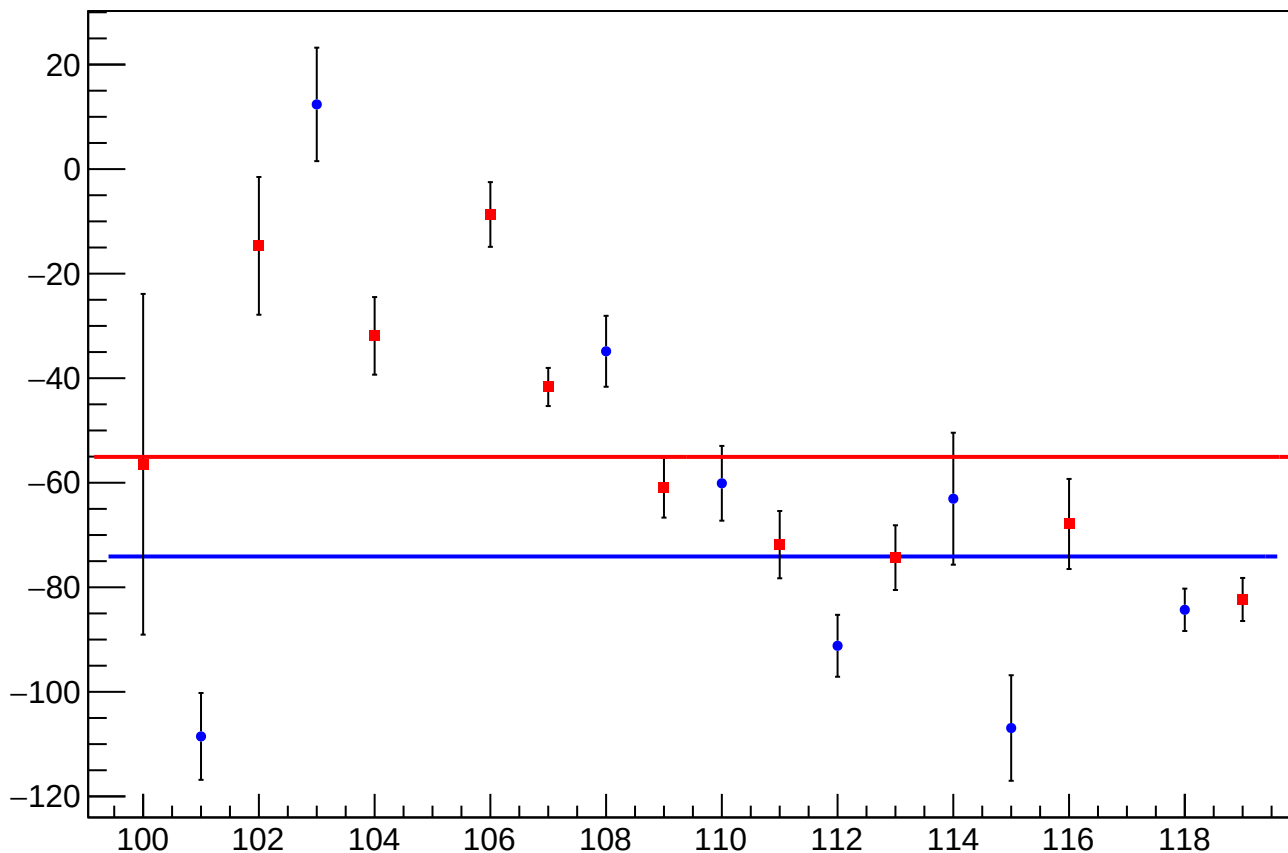
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-235.012 \pm 1.375$   $\chi^2/\text{NDF}$ : 4995.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-74.105 \pm 2.427$   $\chi^2/\text{NDF}$ : 143.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-55.056 \pm 1.893$   $\chi^2/\text{NDF}$ : 152.3/9

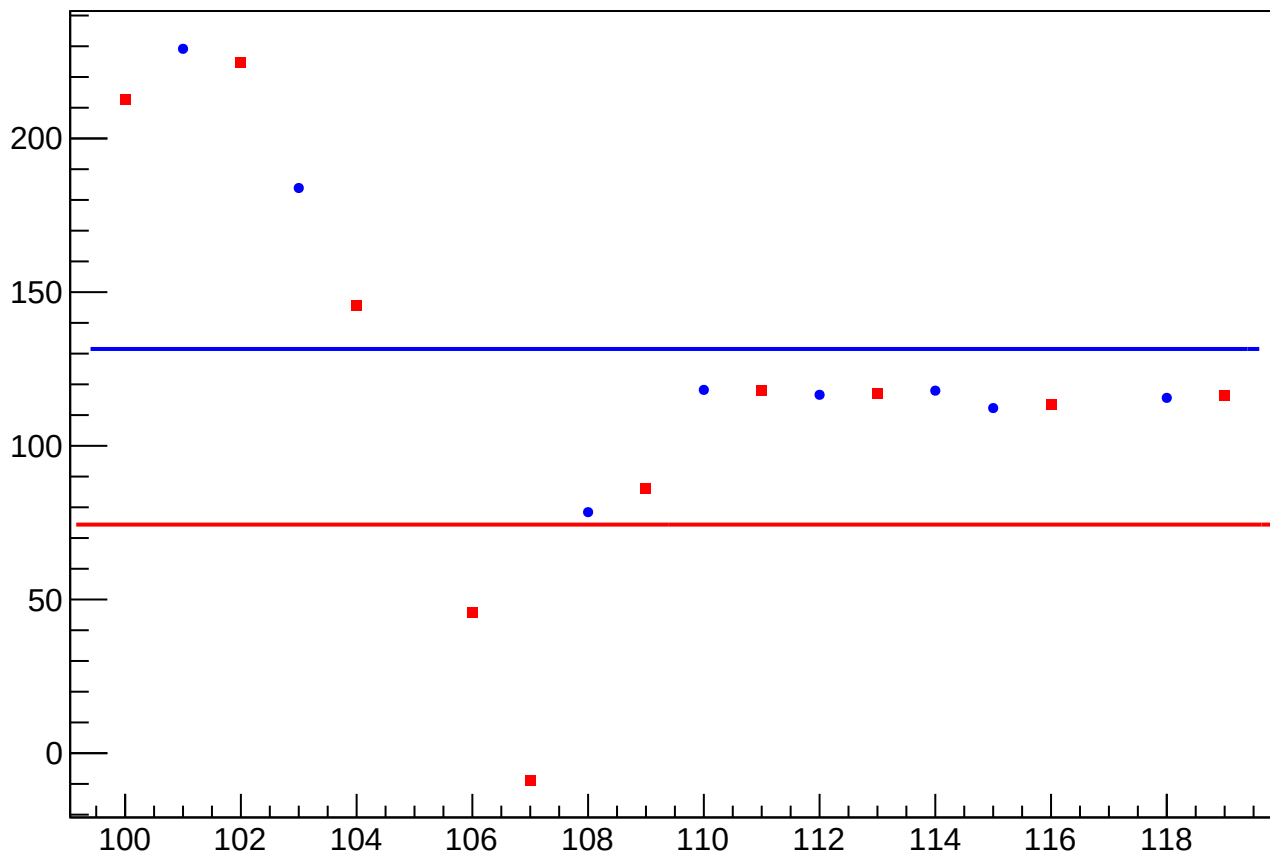
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-62.261 \pm 1.493$   $\chi^2/\text{NDF}$ : 334.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 131.510 $\pm$ 0.132  $\chi^2$ /NDF: 156762.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 74.372 $\pm$ 0.098  $\chi^2$ /NDF: 509769.2/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

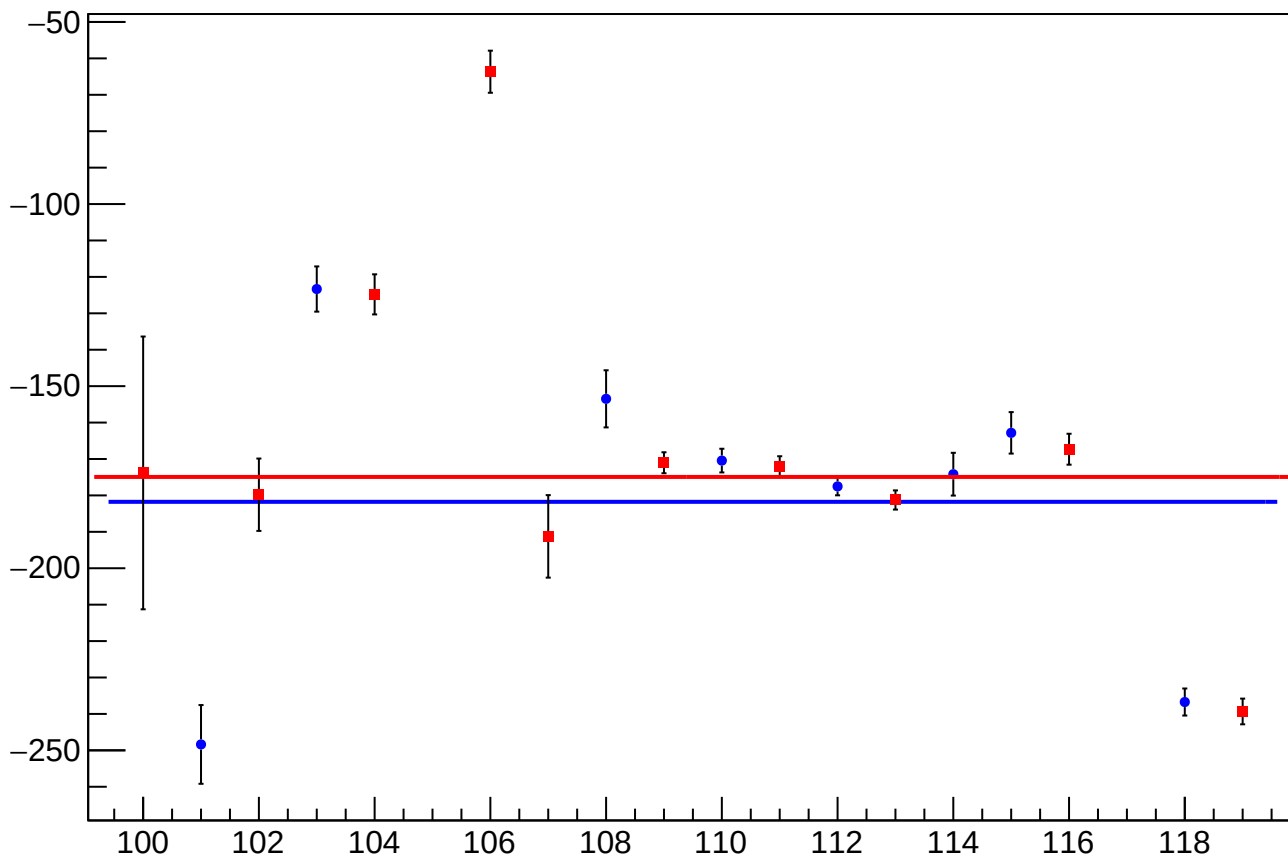
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 94.719 $\pm$ 0.079  $\chi^2$ /NDF: 787222.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -181.761+/-1.500  $\chi^2/\text{NDF}$ : 386.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -174.927+/-1.277  $\chi^2/\text{NDF}$ : 800.4/9

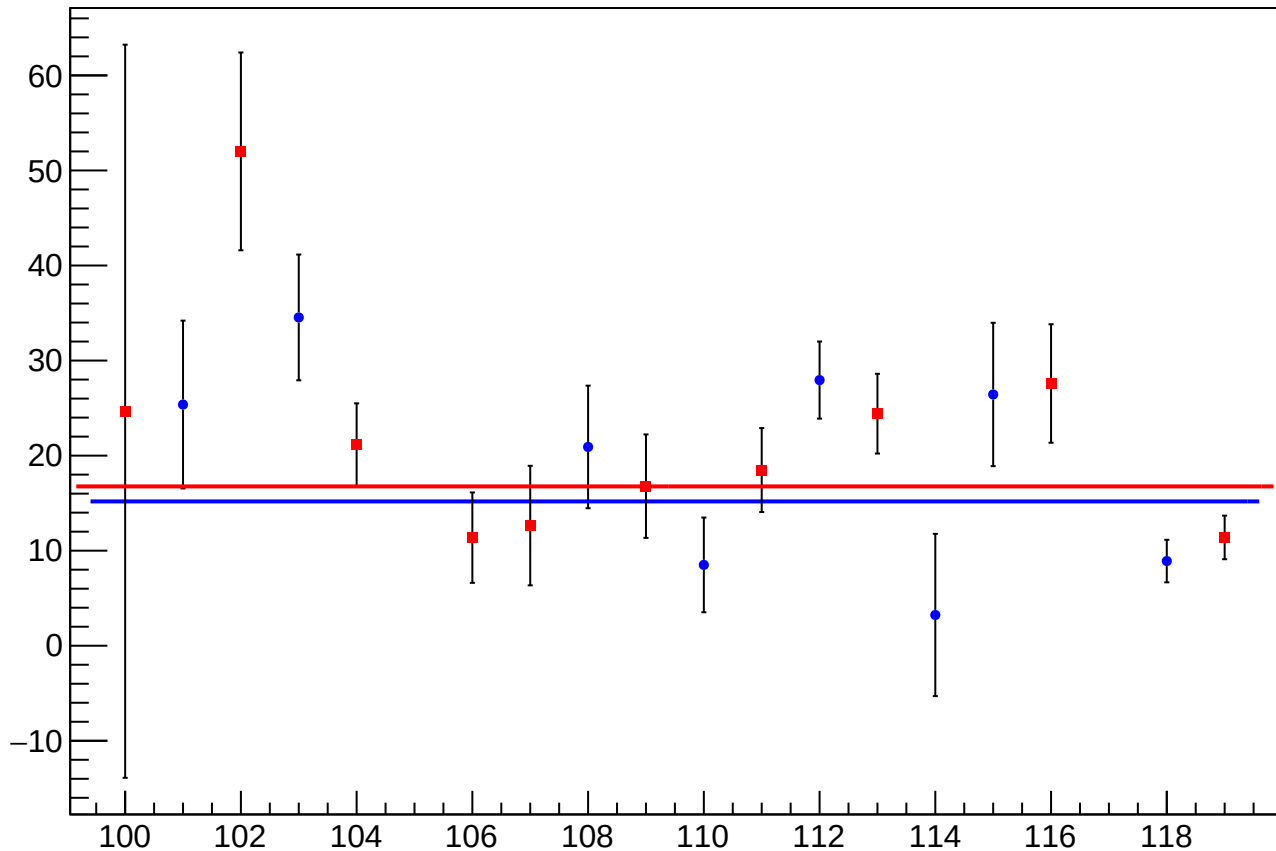
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -177.799+/-0.972  $\chi^2/\text{NDF}$ : 1199.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 15.182 $\pm$ 1.597  $\chi^2$ /NDF: 34.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.762 $\pm$ 1.428  $\chi^2$ /NDF: 26.2/9

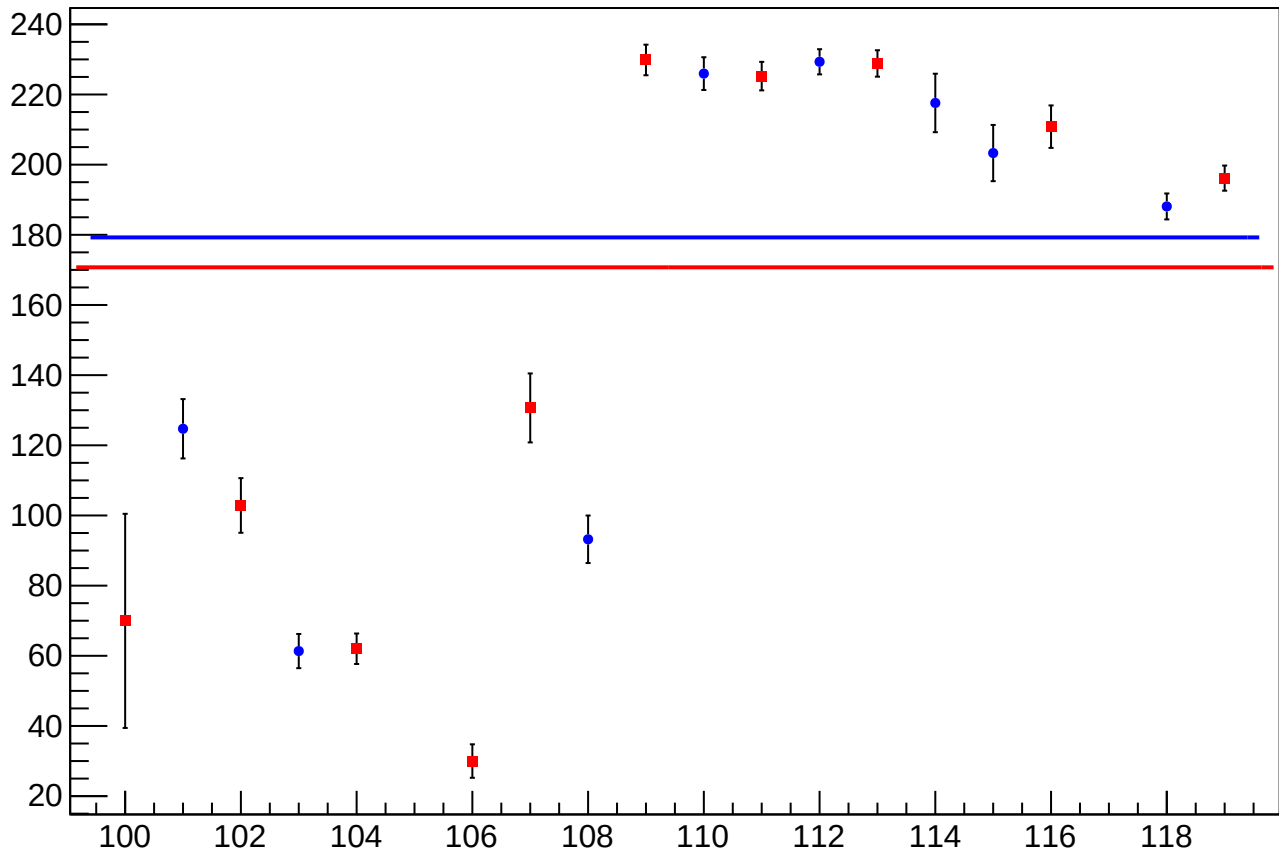
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.060 $\pm$ 1.065  $\chi^2$ /NDF: 61.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 179.258 $\pm$ 1.812  $\chi^2$ /NDF: 1119.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 170.733 $\pm$ 1.555  $\chi^2$ /NDF: 2295.5/9

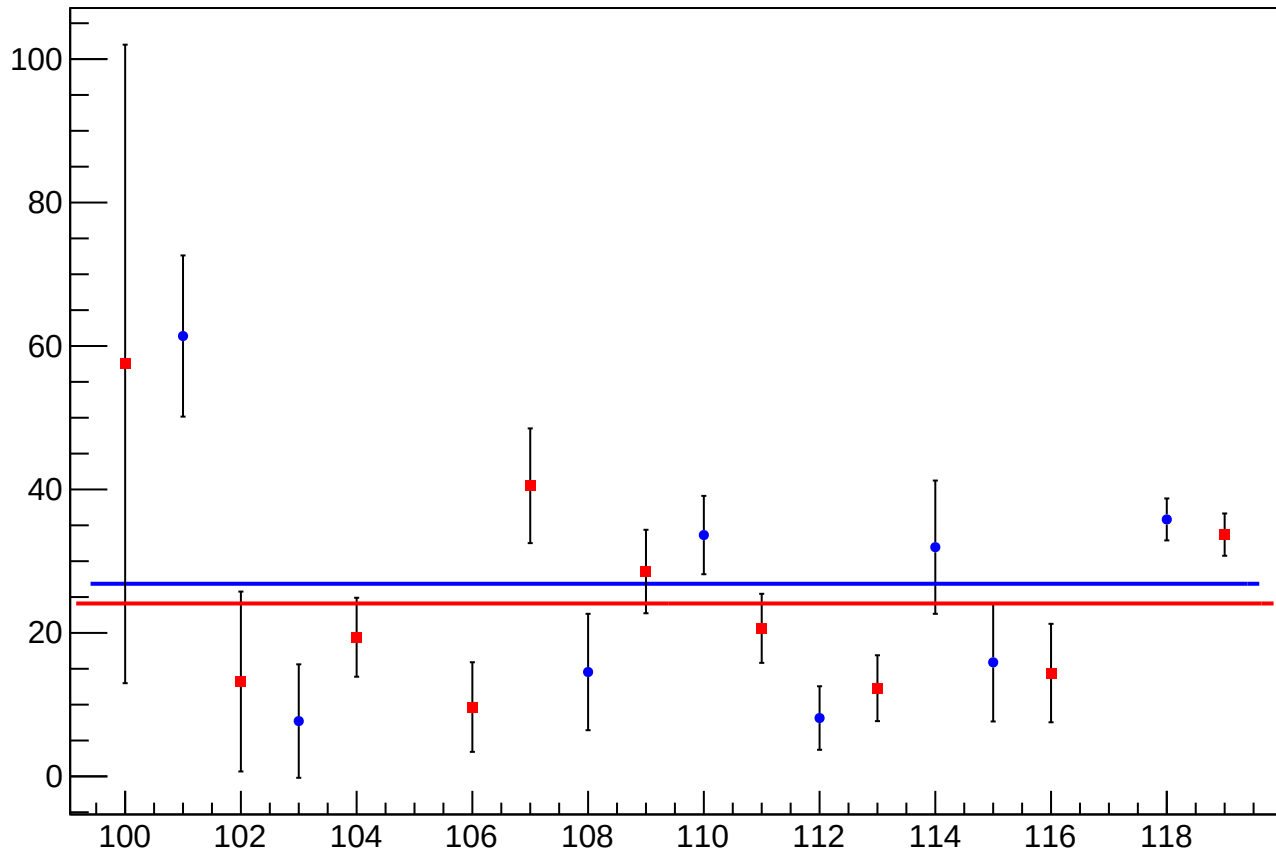
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 174.349 $\pm$ 1.180  $\chi^2$ /NDF: 3428.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 26.855 $\pm$ 1.936  $\chi^2$ /NDF: 48.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 24.105 $\pm$ 1.721  $\chi^2$ /NDF: 31.9/9

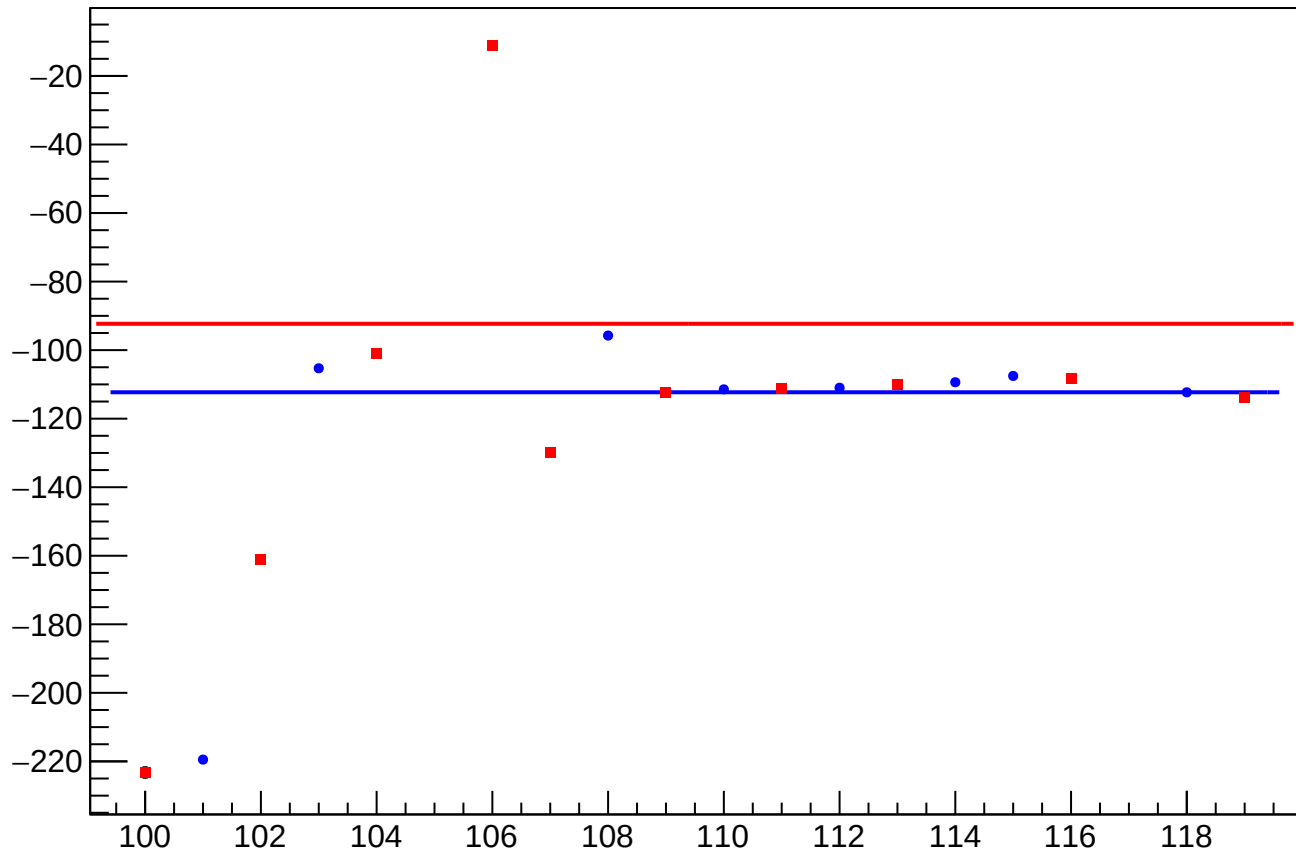
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.318 $\pm$ 1.286  $\chi^2$ /NDF: 81.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -112.297+/-0.114  $\chi^2/\text{NDF}$ : 50331.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -92.312+/-0.094  $\chi^2/\text{NDF}$ : 243488.2/9

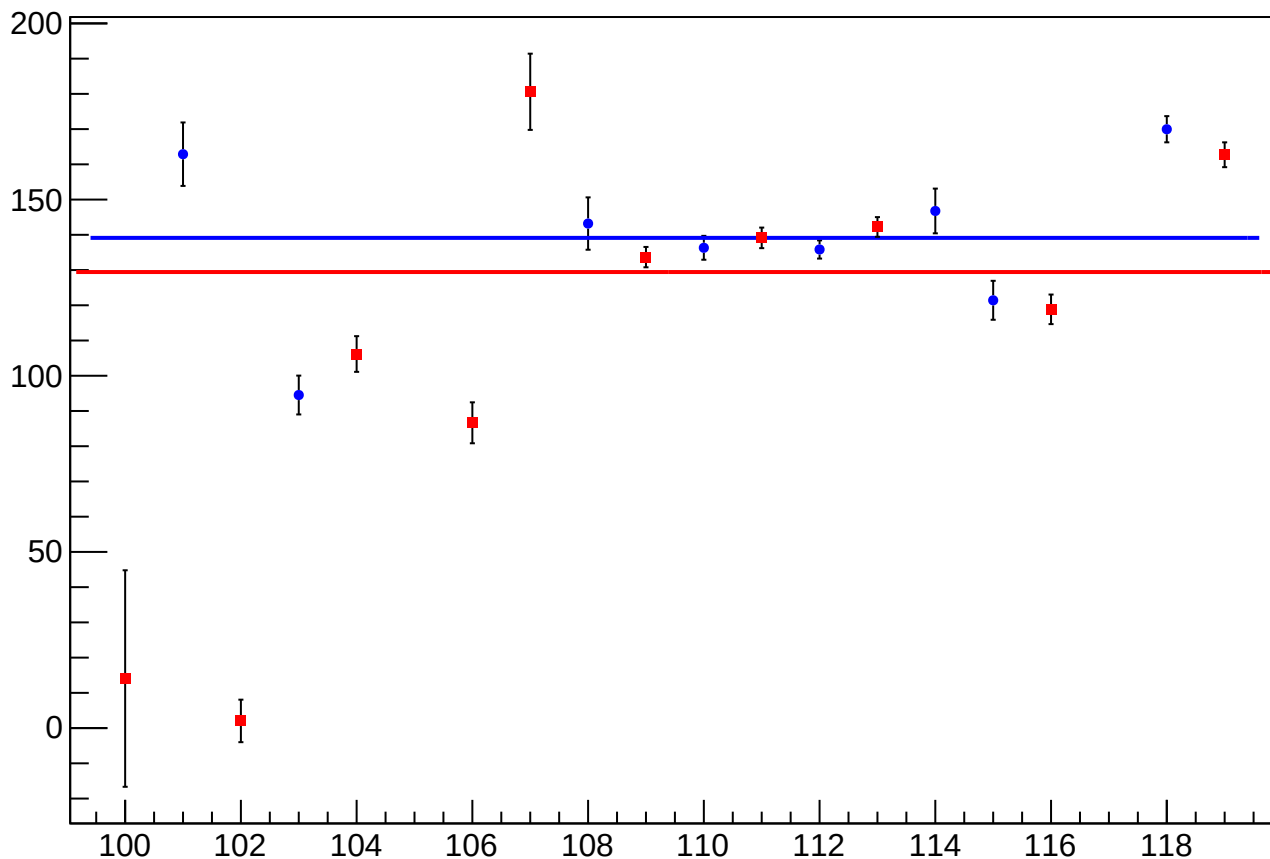
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -100.478+/-0.073  $\chi^2/\text{NDF}$ : 312099.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 139.131+/-1.525  $\chi^2/\text{NDF}$ : 155.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 129.436+/-1.282  $\chi^2/\text{NDF}$ : 687.6/9

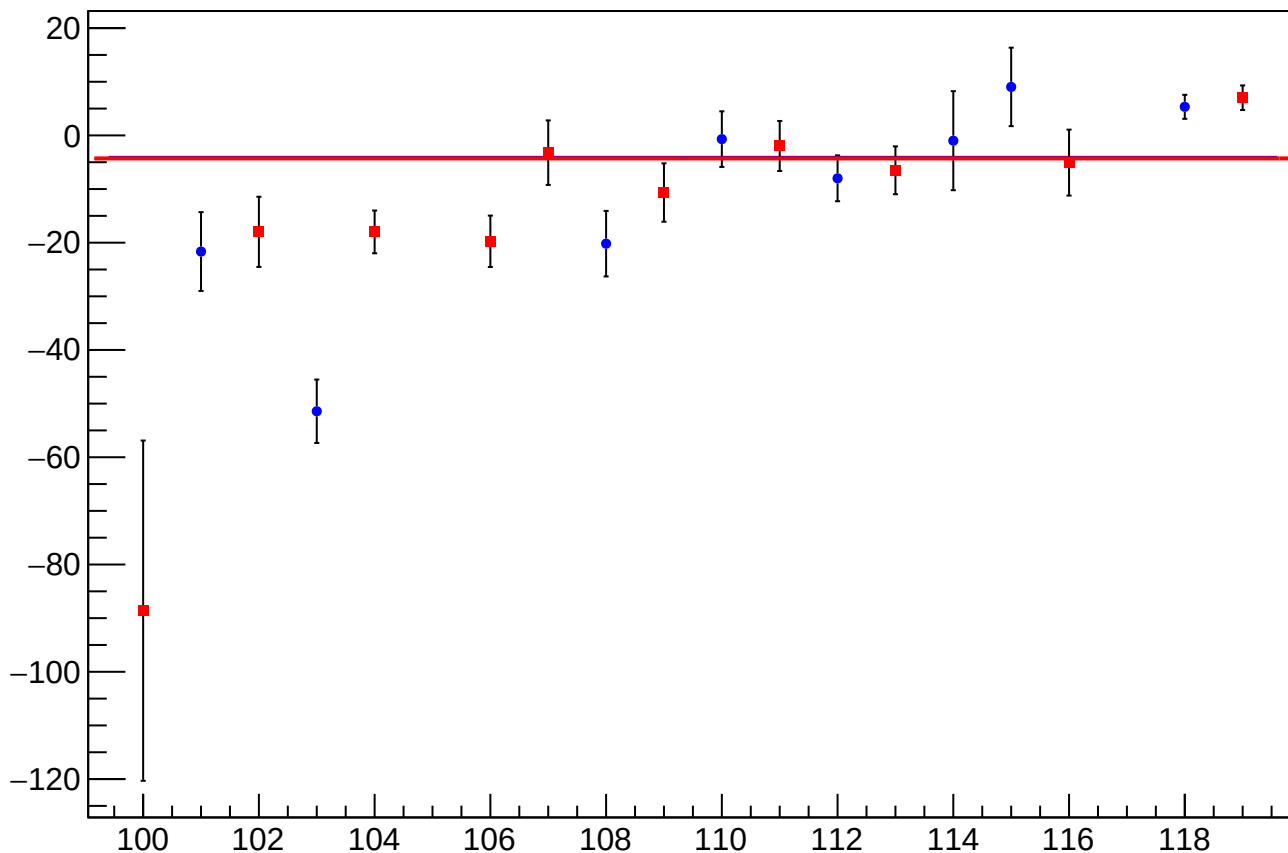
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 133.451+/-0.981  $\chi^2/\text{NDF}$ : 866.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -4.184+/-1.590  $\chi^2$ /NDF: 99.1/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -4.289+/-1.407  $\chi^2$ /NDF: 59.9/9

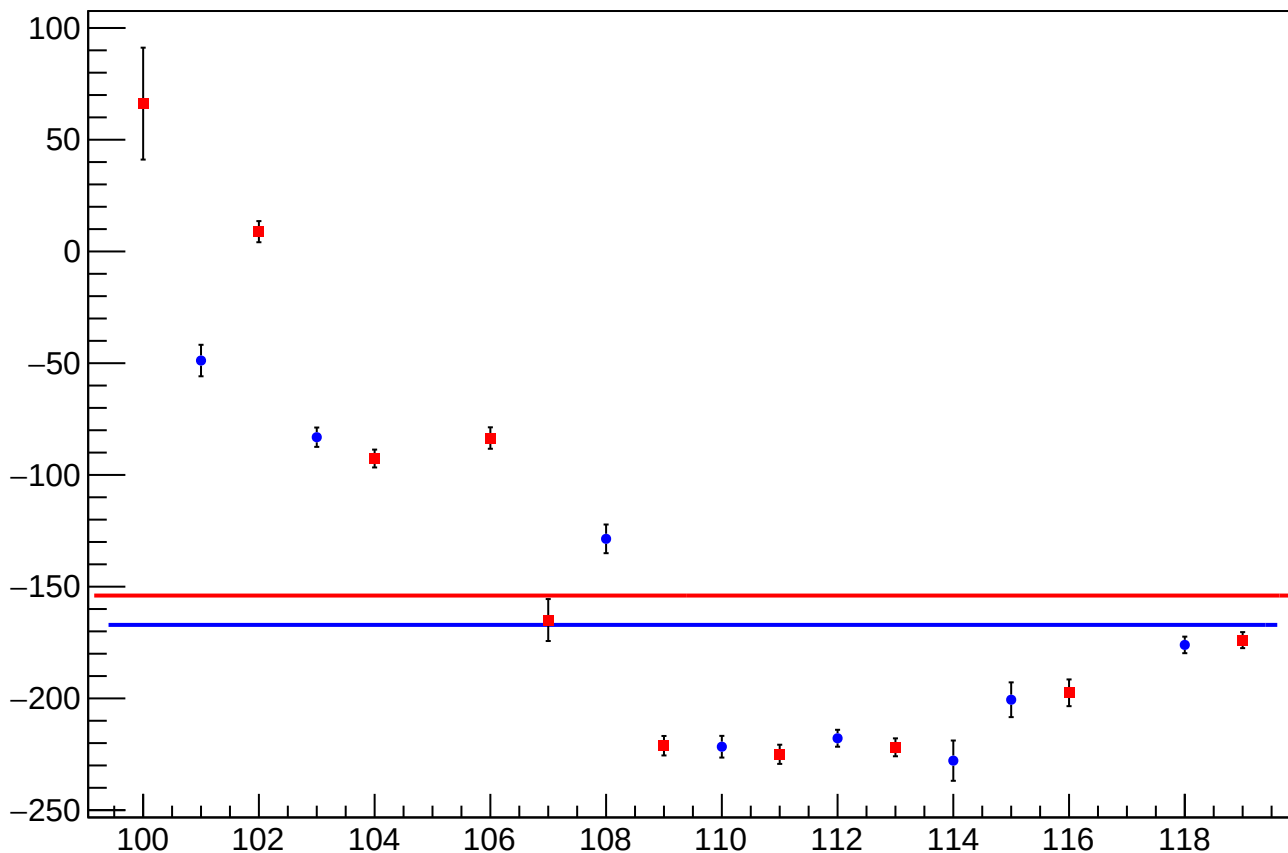
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -4.243+/-1.054  $\chi^2$ /NDF: 159.0/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-167.103 \pm 1.791$   $\chi^2/\text{NDF}$ : 1070.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-153.975 \pm 1.510$   $\chi^2/\text{NDF}$ : 2597.9/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

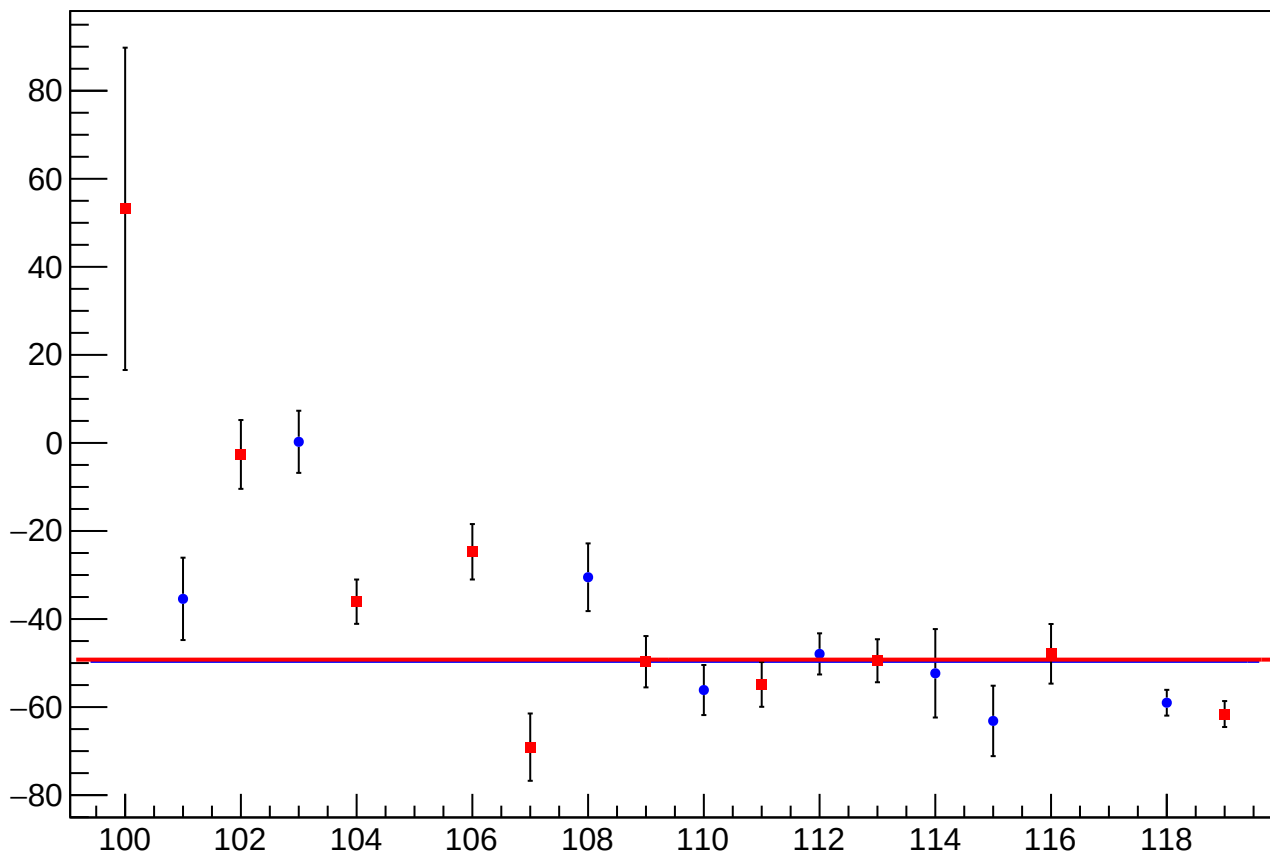
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-159.429 \pm 1.154$   $\chi^2/\text{NDF}$ : 3699.7/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-49.509 \pm 1.934$   $\chi^2/\text{NDF}$ : 73.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-49.220 \pm 1.701$   $\chi^2/\text{NDF}$ : 90.9/9

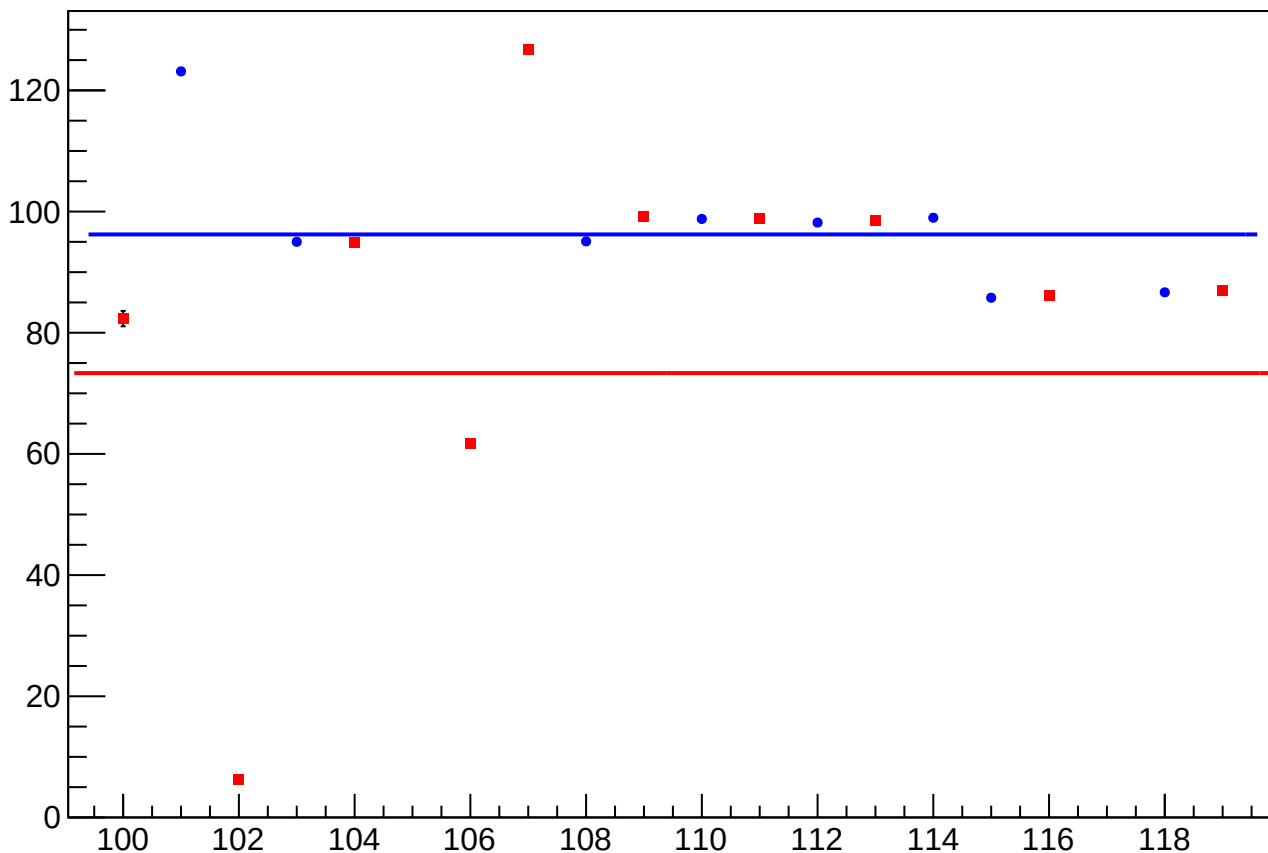
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-49.346 \pm 1.277$   $\chi^2/\text{NDF}$ : 164.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 96.224 $\pm$ 0.108  $\chi^2$ /NDF: 5720.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 73.340 $\pm$ 0.088  $\chi^2$ /NDF: 168009.1/9

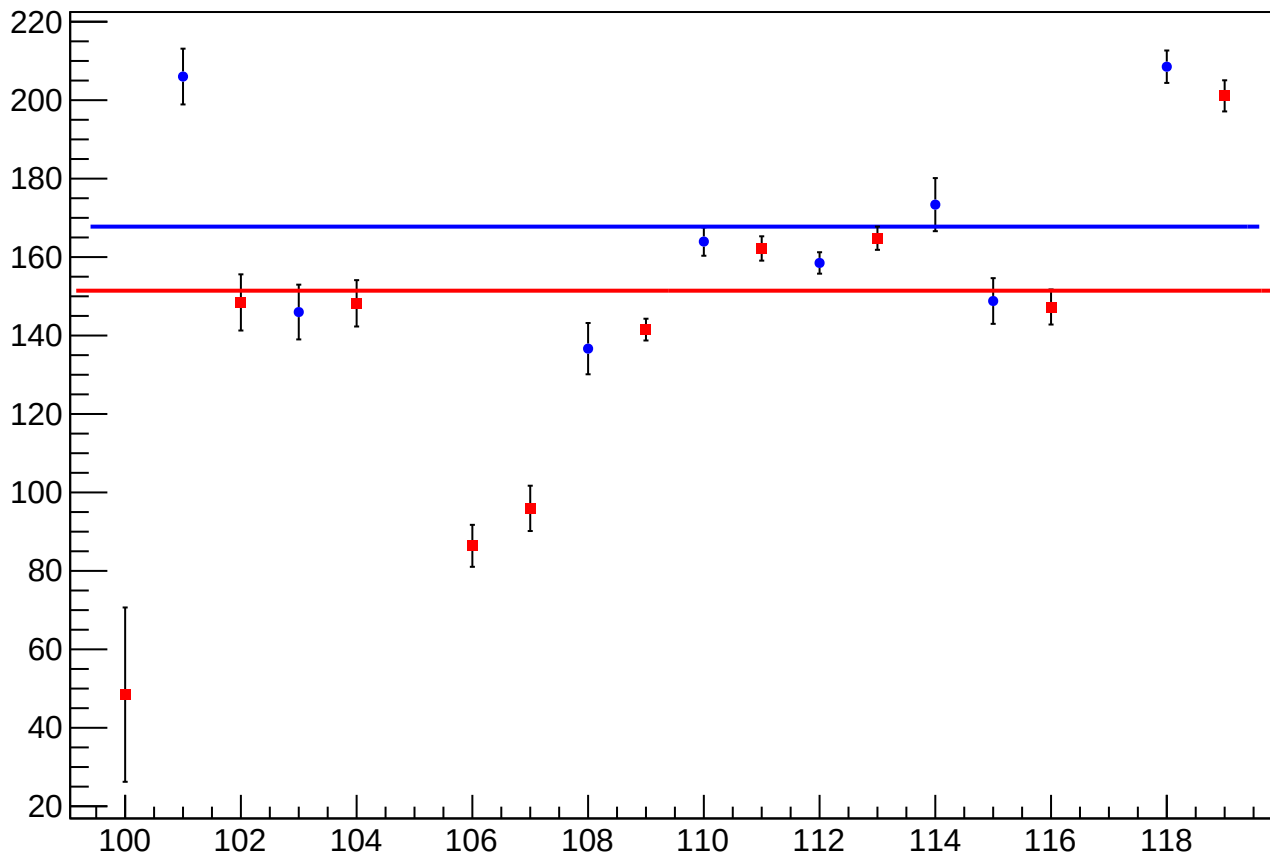
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 82.386 $\pm$ 0.068  $\chi^2$ /NDF: 200696.5/17

- 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: 167.765+/-1.614  $\chi^2/\text{NDF}$ : 182.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 151.433+/-1.317  $\chi^2/\text{NDF}$ : 464.8/9

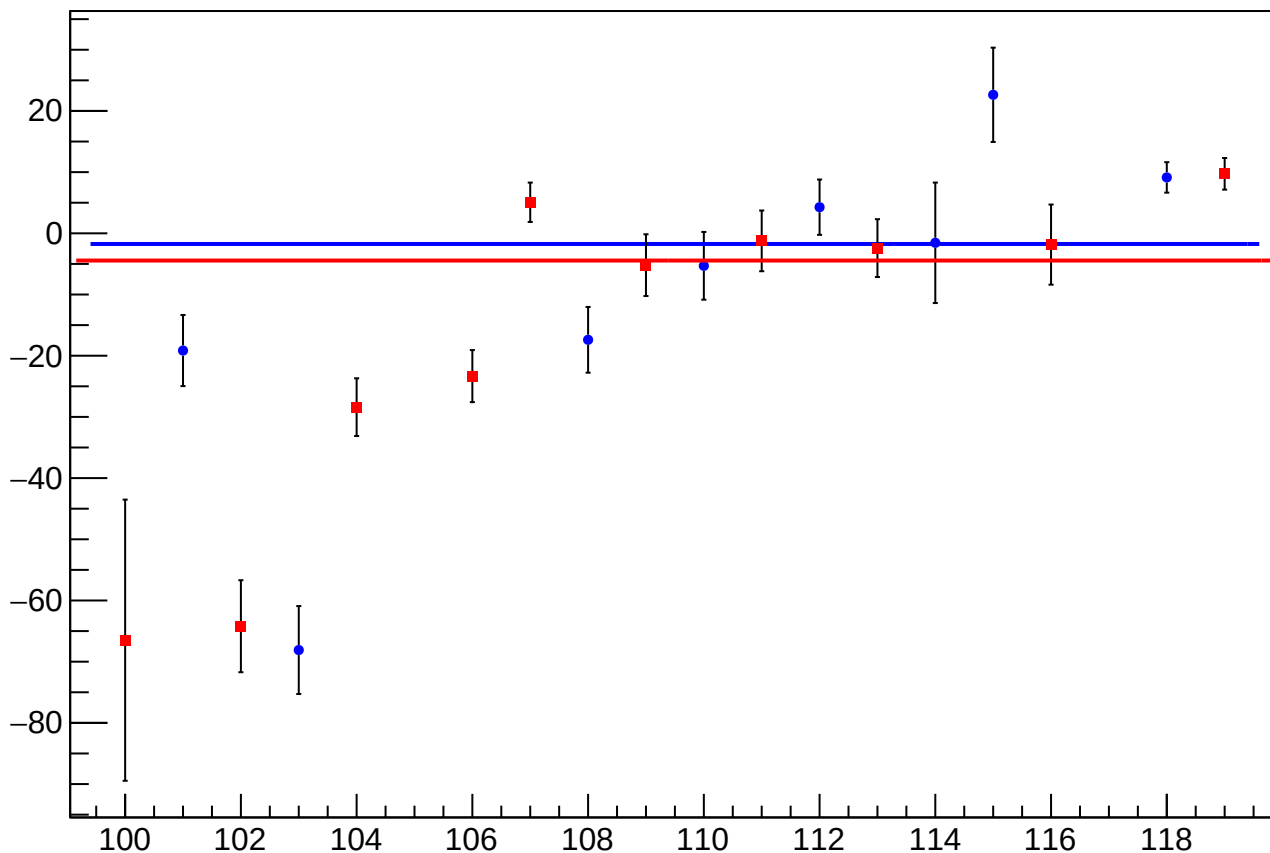
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 157.965+/-1.020  $\chi^2/\text{NDF}$ : 708.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -1.741+/-1.682  $\chi^2$ /NDF: 134.0/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4.446+/-1.394  $\chi^2$ /NDF: 155.6/9

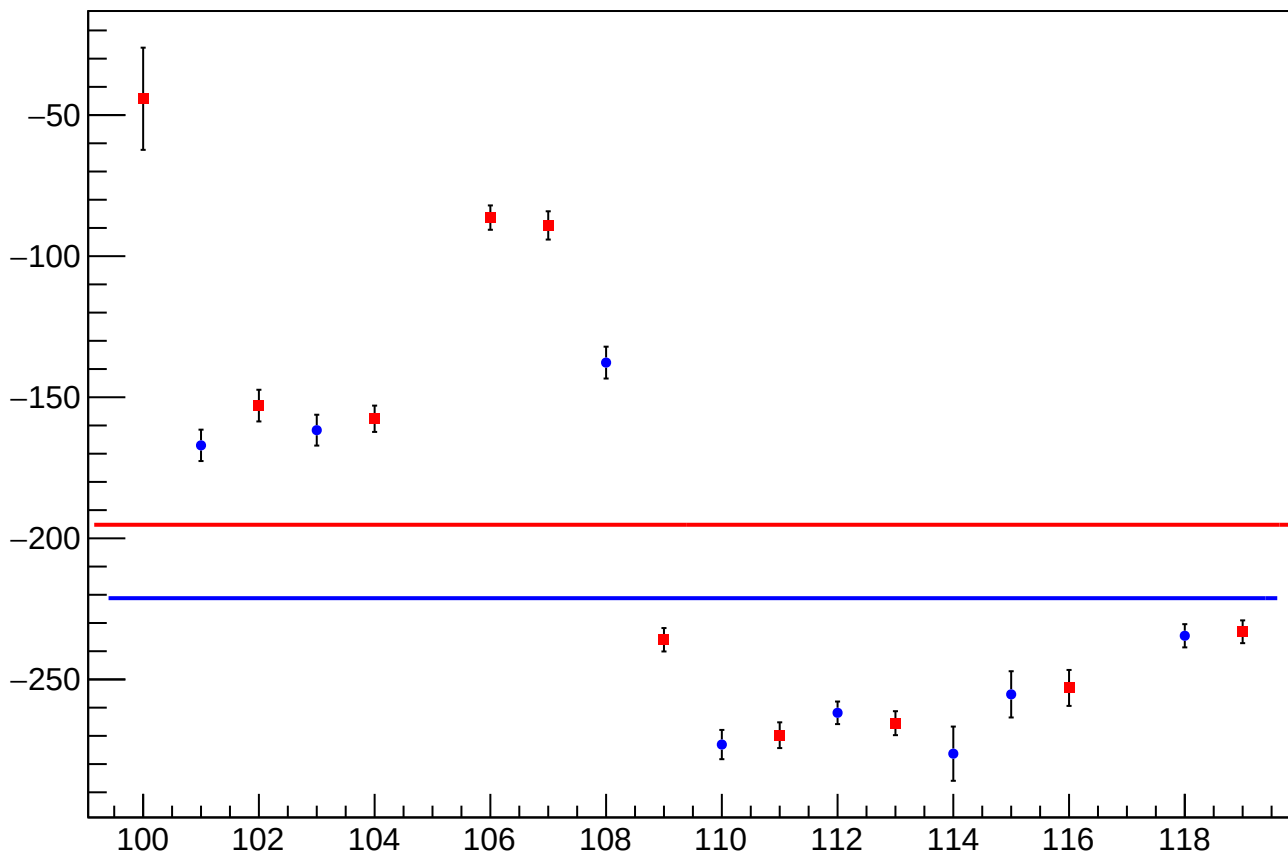
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -3.344+/-1.073  $\chi^2$ /NDF: 291.2/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -221.204+/-1.884  $\chi^2/\text{NDF}$ : 696.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -195.188+/-1.540  $\chi^2/\text{NDF}$ : 2084.2/9

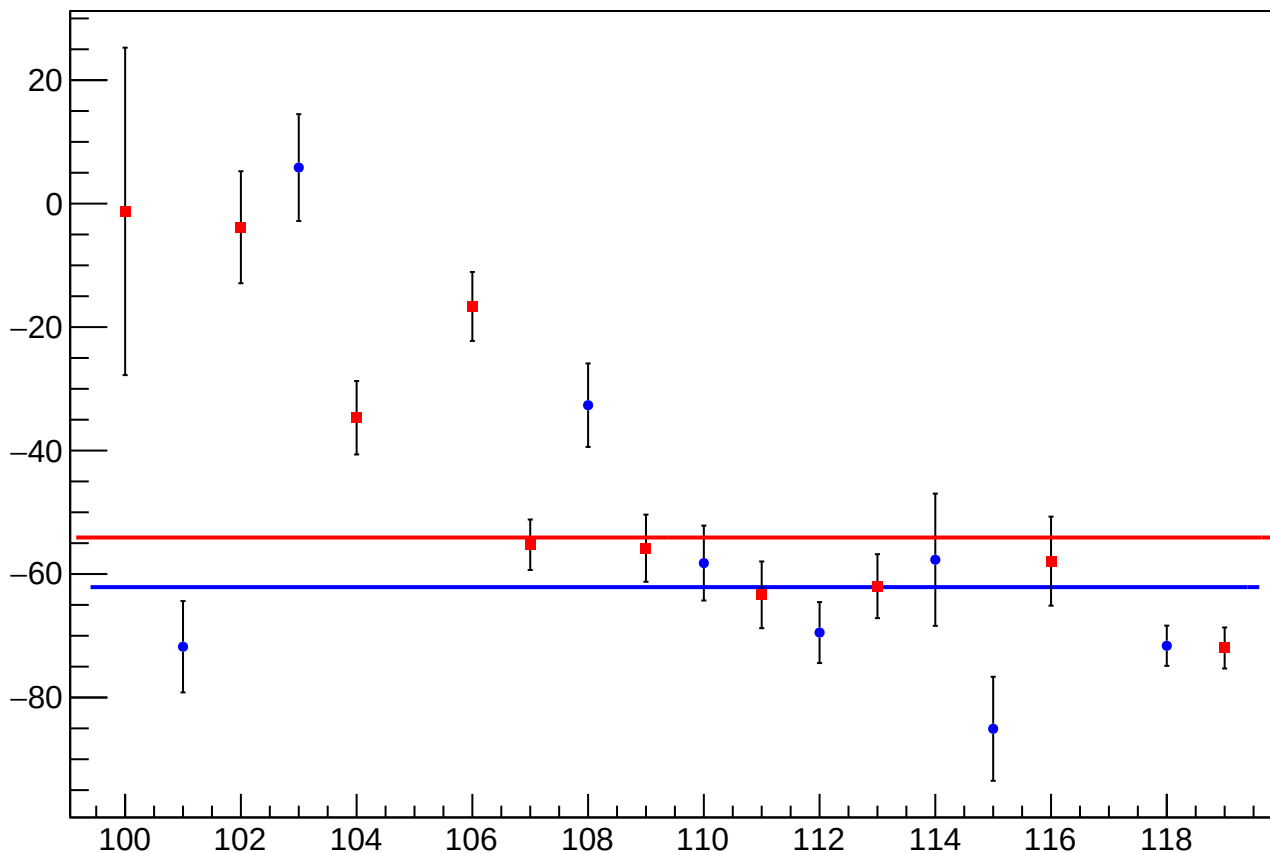
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -205.603+/-1.192  $\chi^2/\text{NDF}$ : 2894.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-62.120 \pm 2.047$   $\chi^2/\text{NDF}$ : 101.1/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-54.083 \pm 1.693$   $\chi^2/\text{NDF}$ : 124.9/9

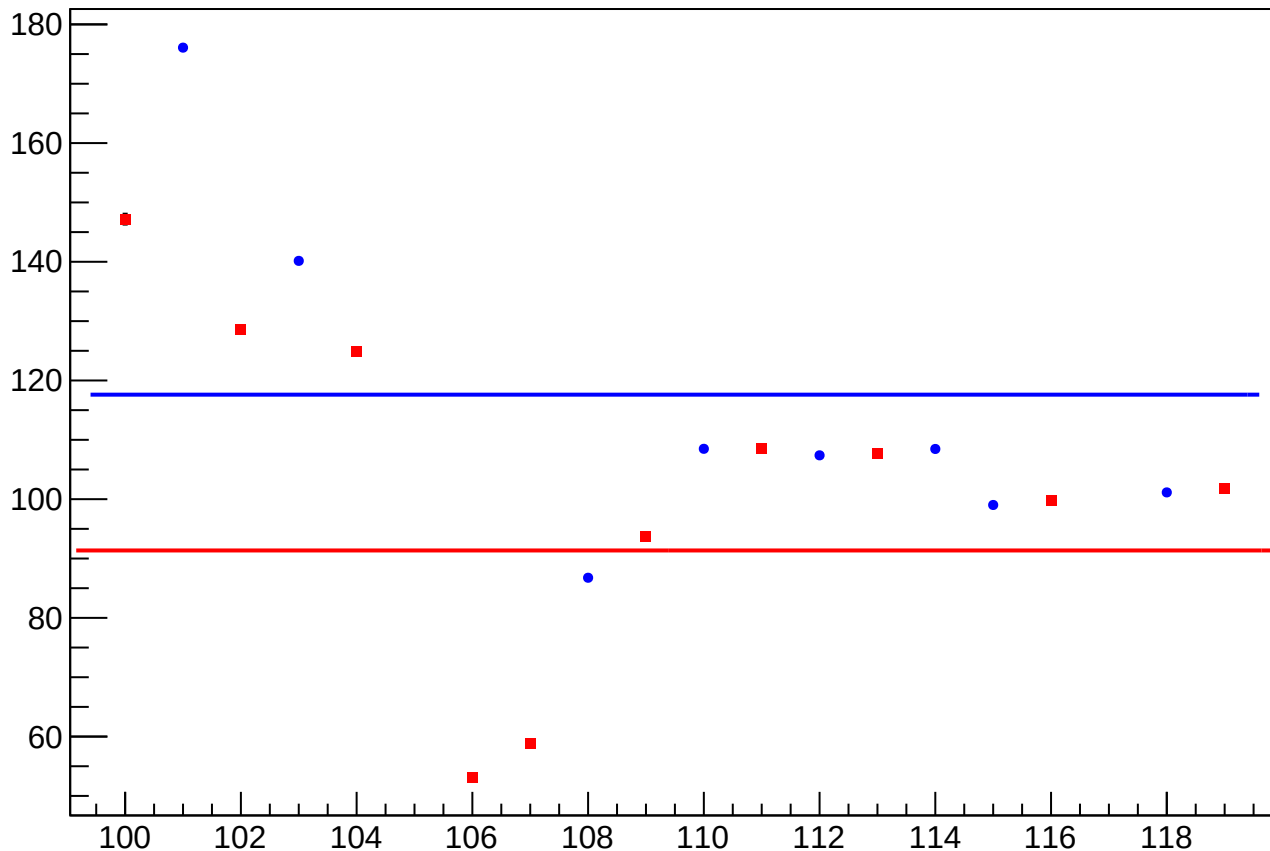
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-57.348 \pm 1.305$   $\chi^2/\text{NDF}$ : 235.2/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 117.611 $\pm$ 0.115  $\chi^2$ /NDF: 63570.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 91.359 $\pm$ 0.087  $\chi^2$ /NDF: 119734.5/9

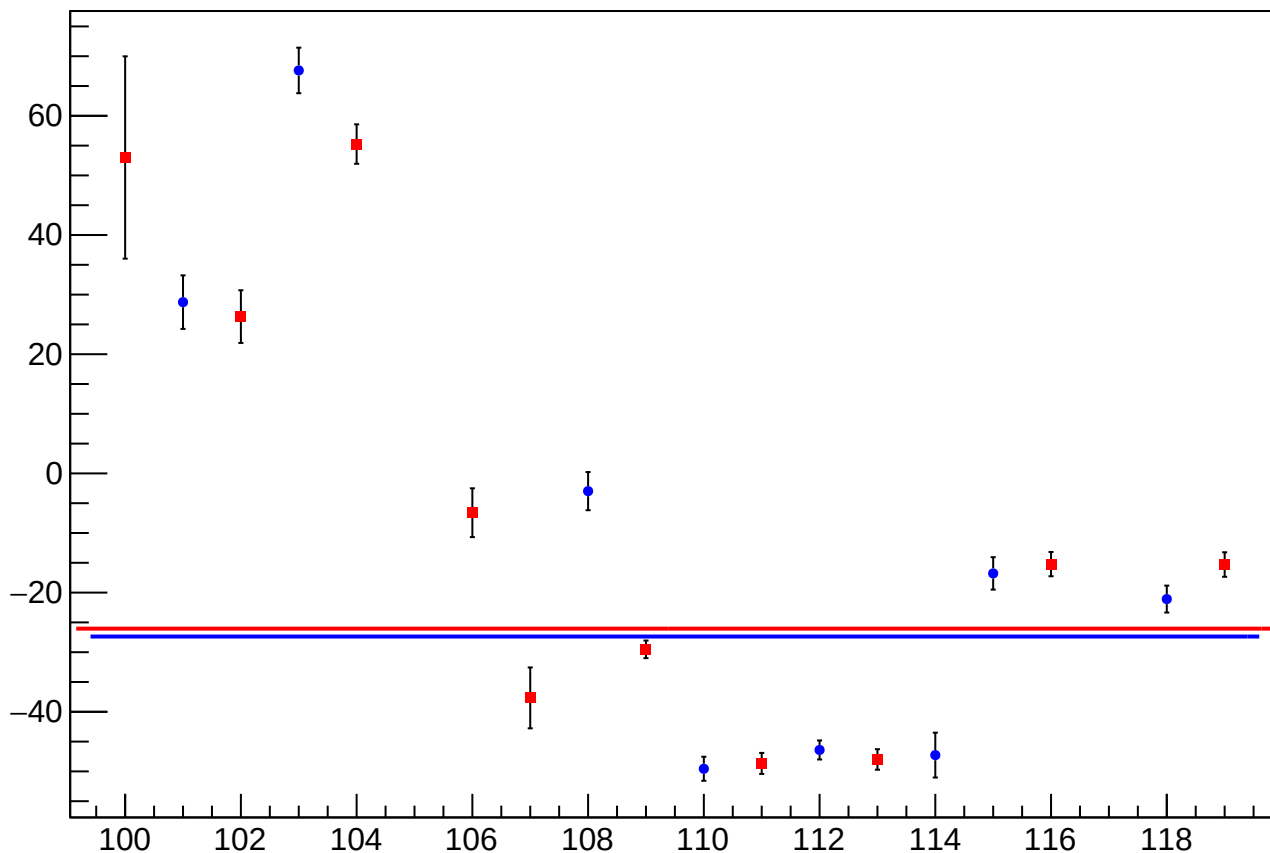
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 101.010 $\pm$ 0.070  $\chi^2$ /NDF: 216467.6/17

- 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:  $-27.370 \pm 0.892$   $\chi^2/\text{NDF}$ : 1146.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-26.049 \pm 0.738$   $\chi^2/\text{NDF}$ : 1181.2/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

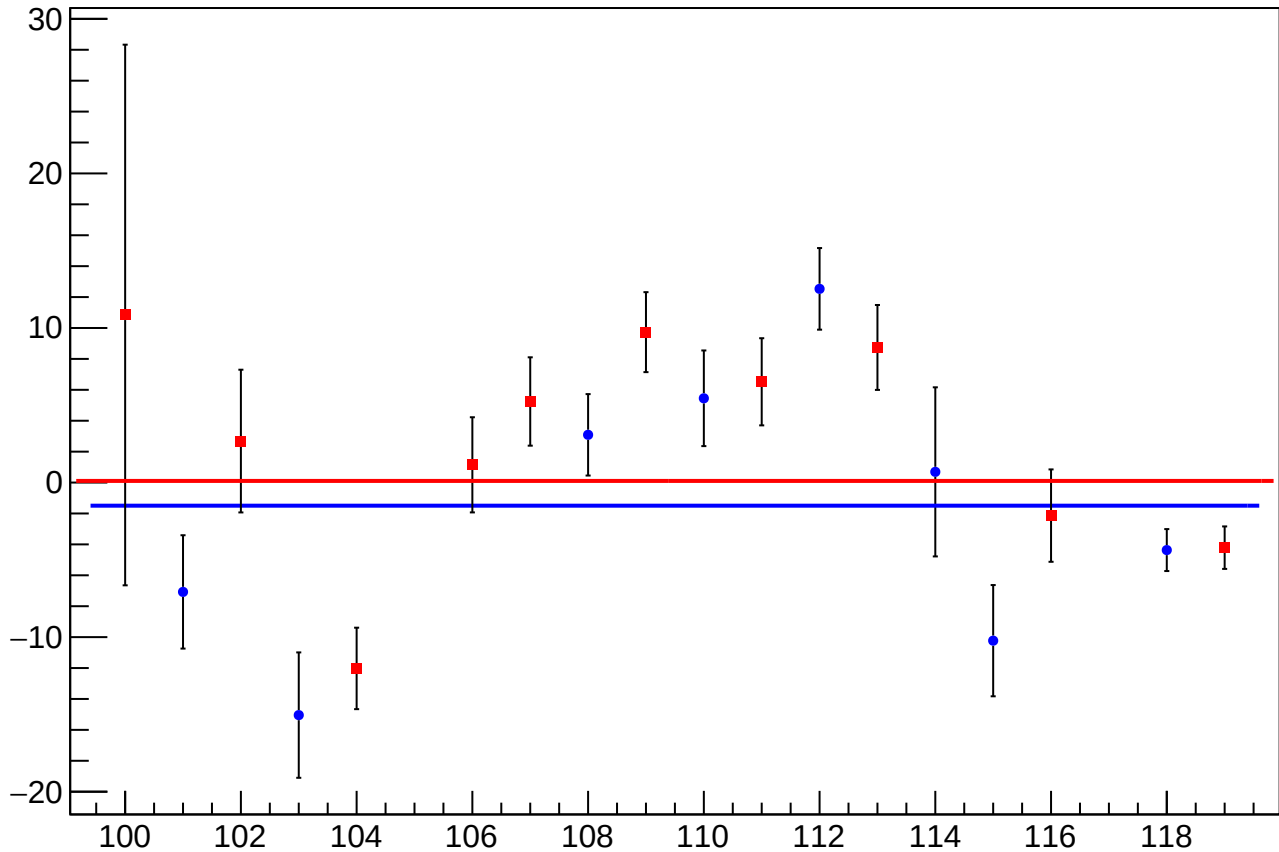
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-26.585 \pm 0.568$   $\chi^2/\text{NDF}$ : 2329.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -1.496 $\pm$ 0.920  $\chi^2$ /NDF: 60.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.106 $\pm$ 0.824  $\chi^2$ /NDF: 64.6/9

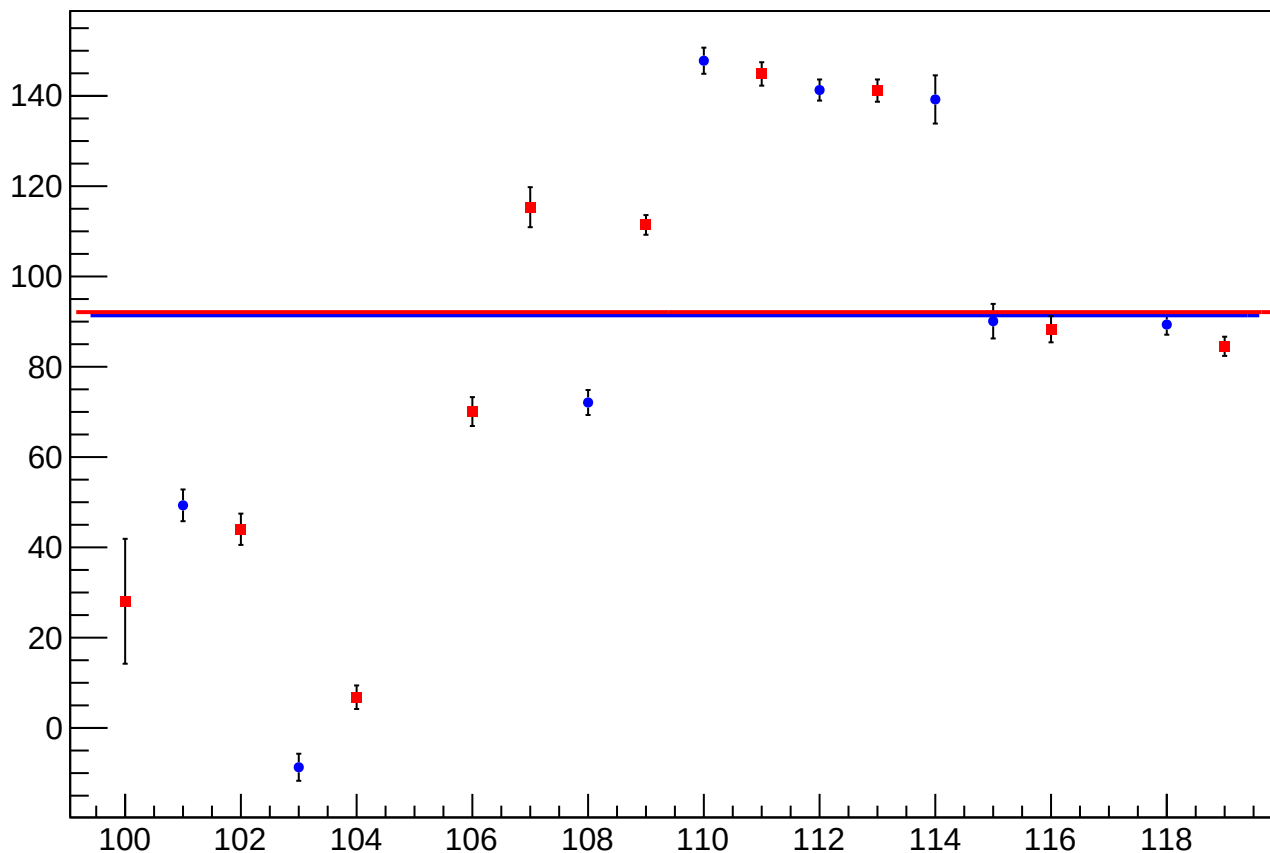
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.607 $\pm$ 0.614  $\chi^2$ /NDF: 126.5/17

- 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: 91.399 $\pm$ 1.038  $\chi^2$ /NDF: 2225.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 92.107 $\pm$ 0.896  $\chi^2$ /NDF: 2258.9/9

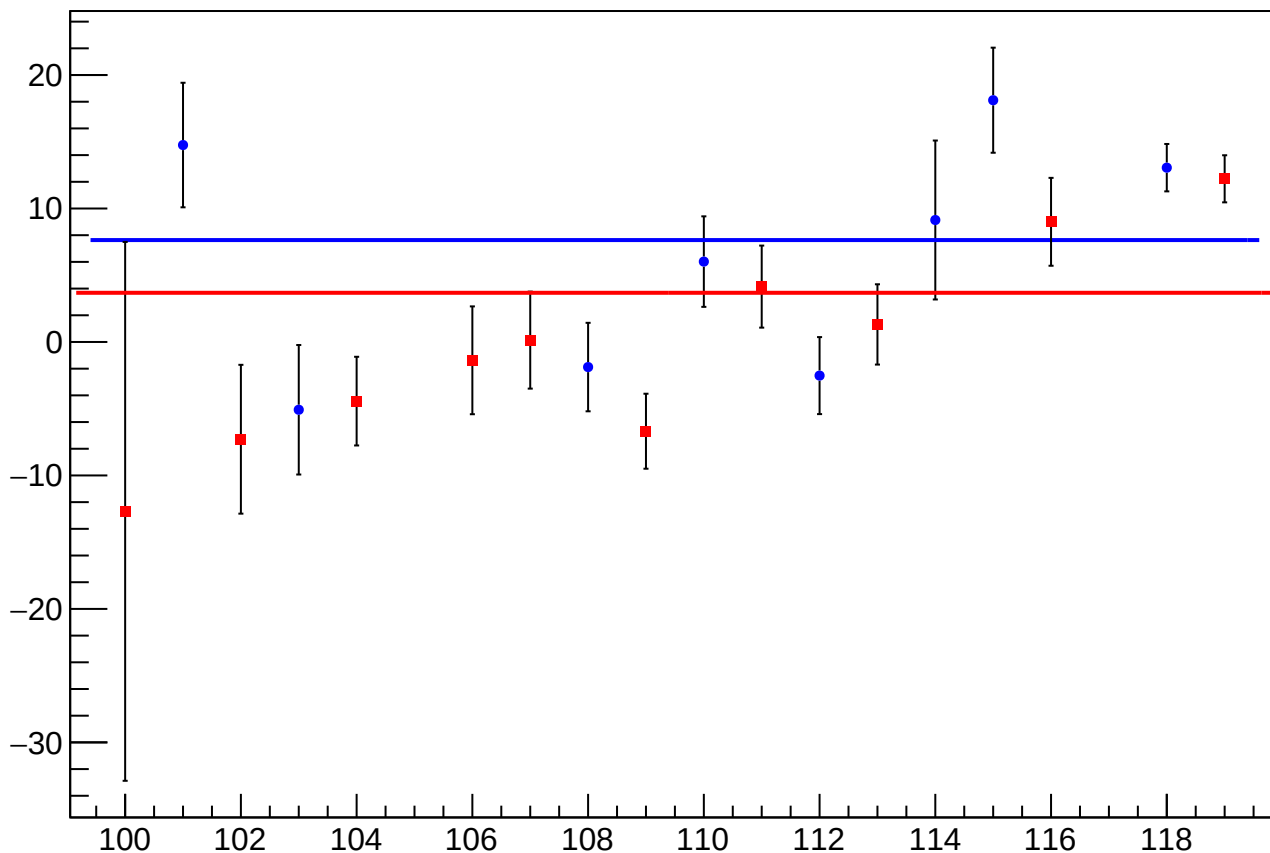
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 91.805 $\pm$ 0.678  $\chi^2$ /NDF: 4485.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 7.635 $\pm$ 1.120  $\chi^2$ /NDF: 46.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.685 $\pm$ 0.991  $\chi^2$ /NDF: 53.3/9

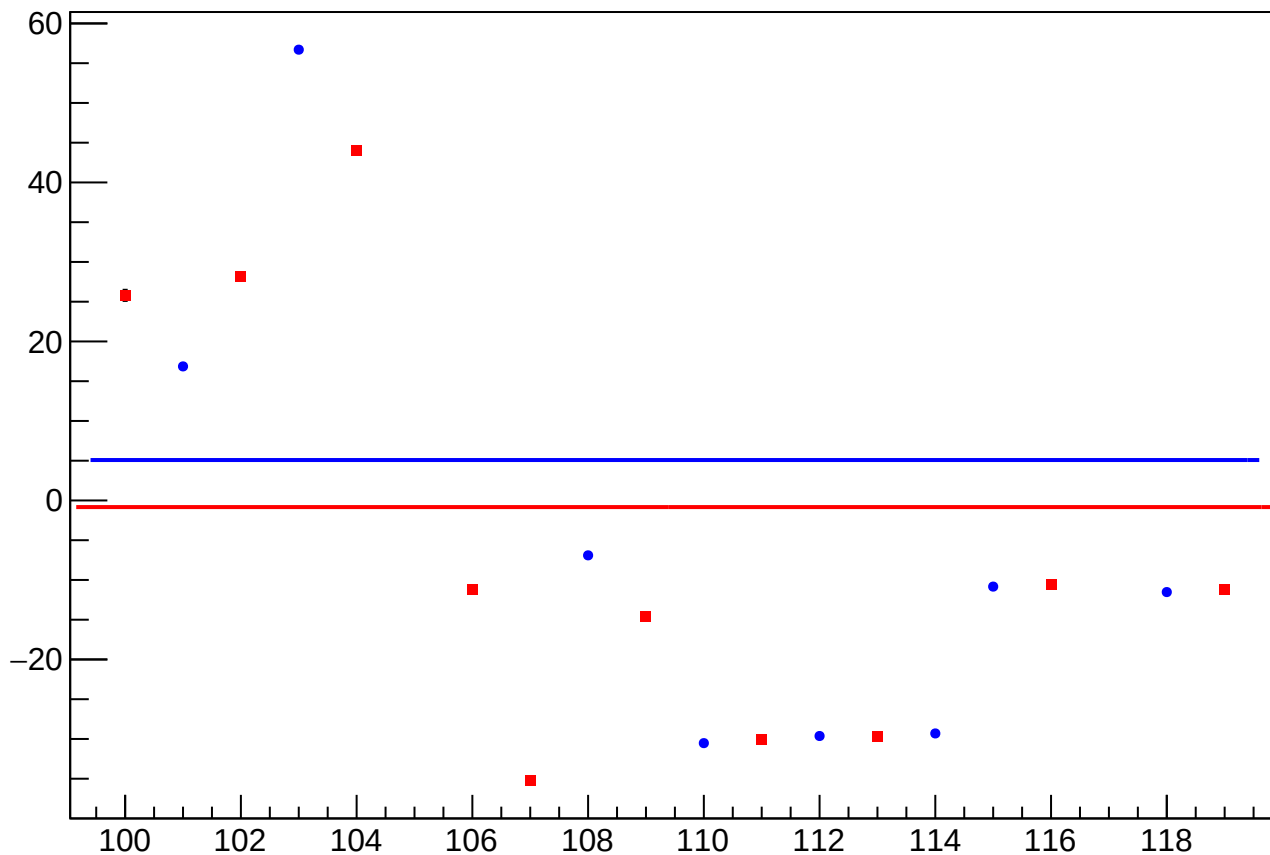
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.418 $\pm$ 0.742  $\chi^2$ /NDF: 106.8/17

- 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: 5.084+/-0.062  $\chi^2/\text{NDF}$ : 259865.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.833+/-0.055  $\chi^2/\text{NDF}$ : 263764.3/9

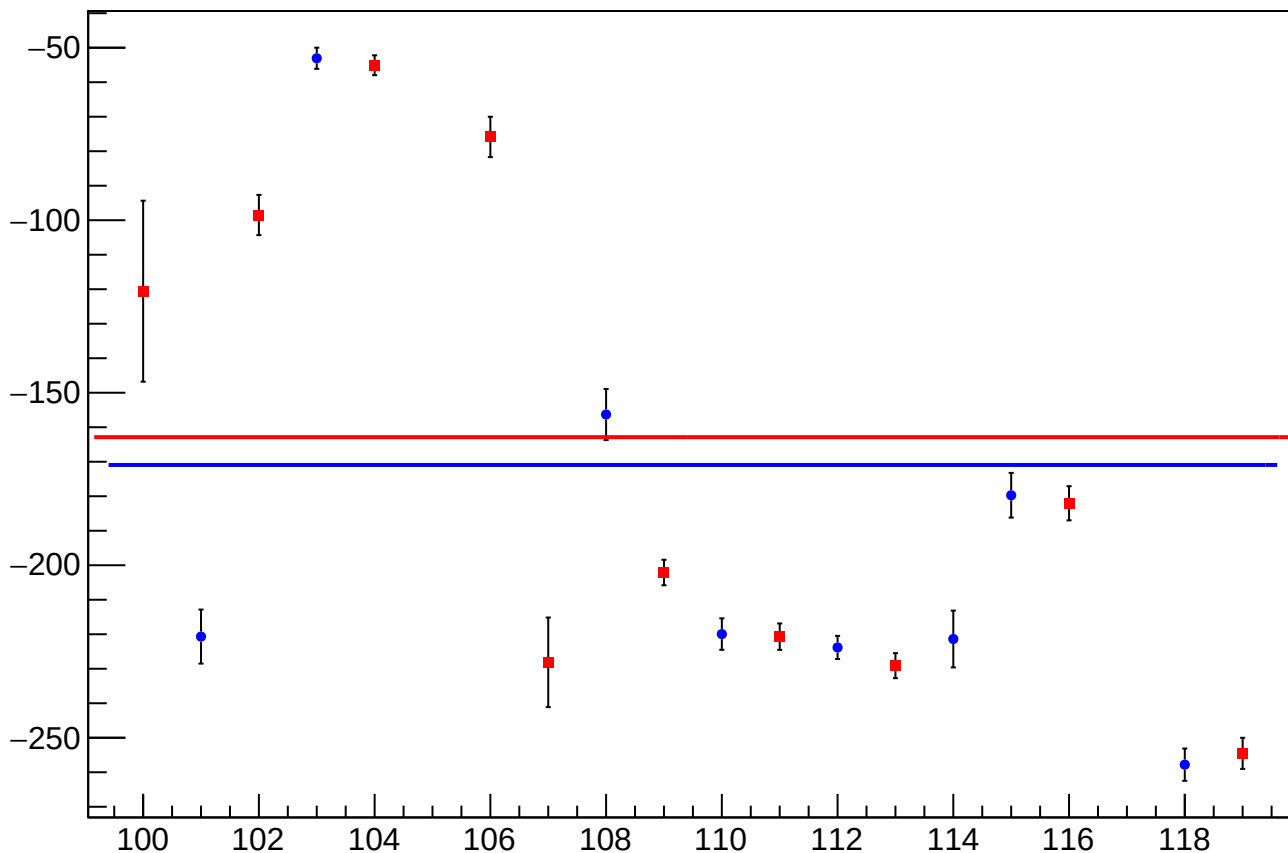
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.783+/-0.041  $\chi^2/\text{NDF}$ : 528754.5/17

- 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: -170.930+/-1.662  $\chi^2$ /NDF: 2269.8/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -162.874+/-1.422  $\chi^2$ /NDF: 2879.6/9

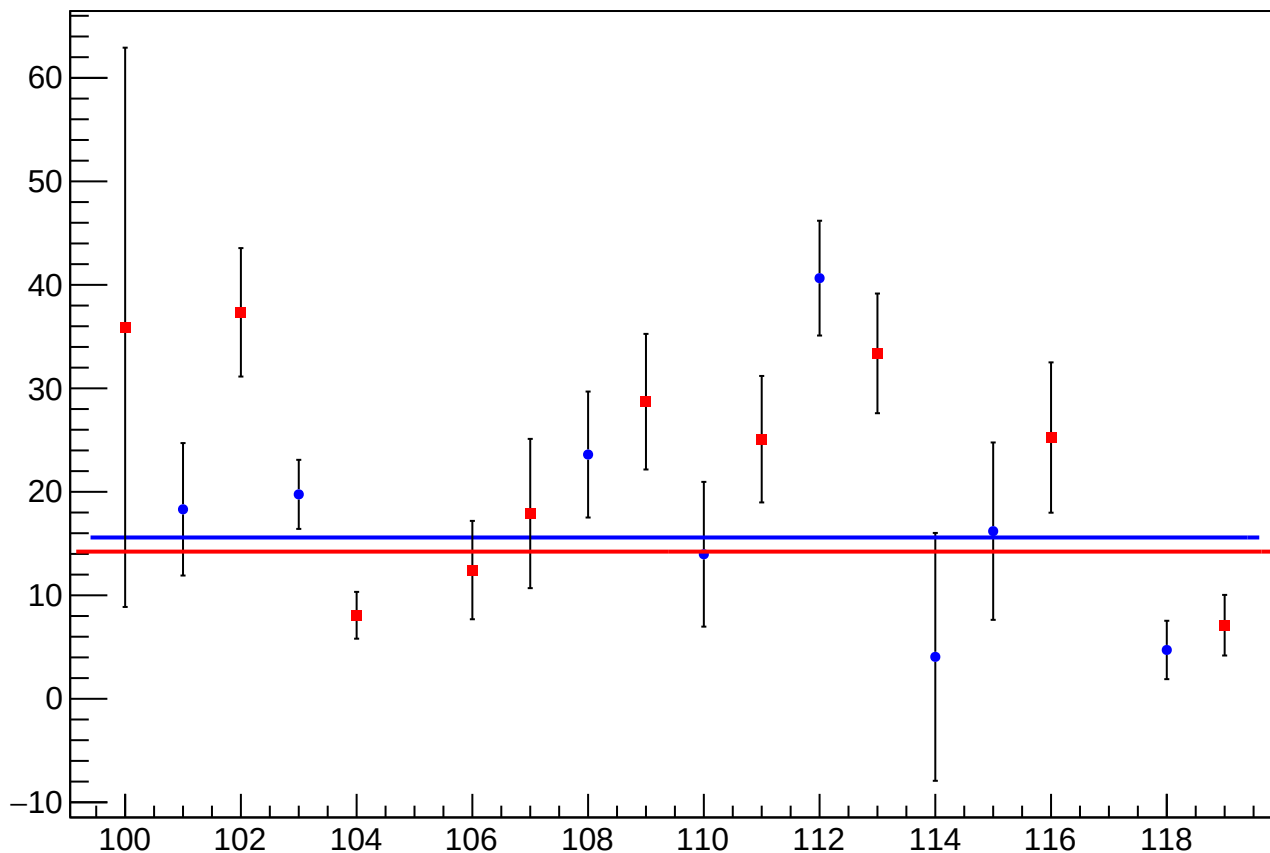
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -166.279+/-1.080  $\chi^2$ /NDF: 5163.0/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 15.589 $\pm$ 1.714  $\chi^2$ /NDF: 39.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.223 $\pm$ 1.412  $\chi^2$ /NDF: 49.5/9

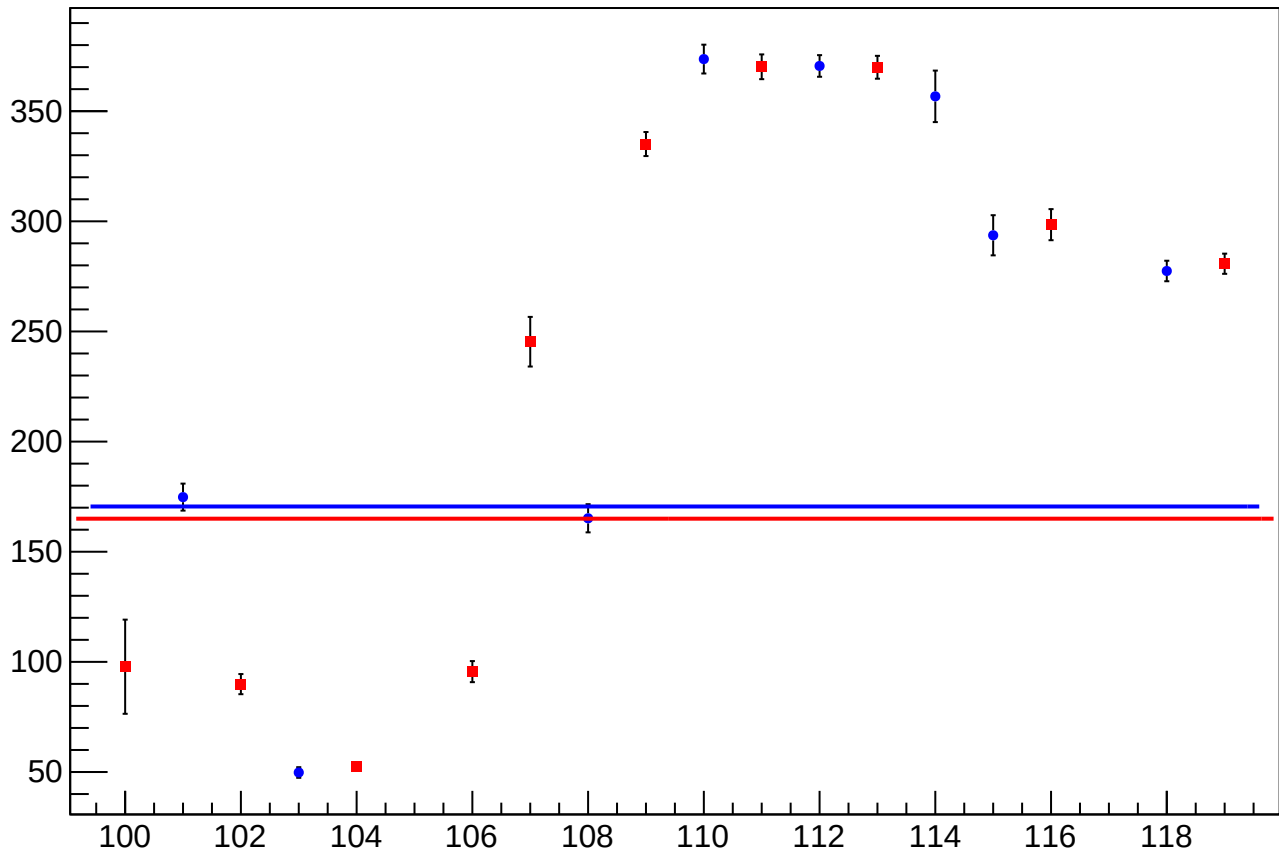
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 14.775 $\pm$ 1.090  $\chi^2$ /NDF: 89.7/17

- 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: 170.539+/-1.682  $\chi^2/\text{NDF}$ : 6099.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 165.003+/-1.465  $\chi^2/\text{NDF}$ : 7853.2/9

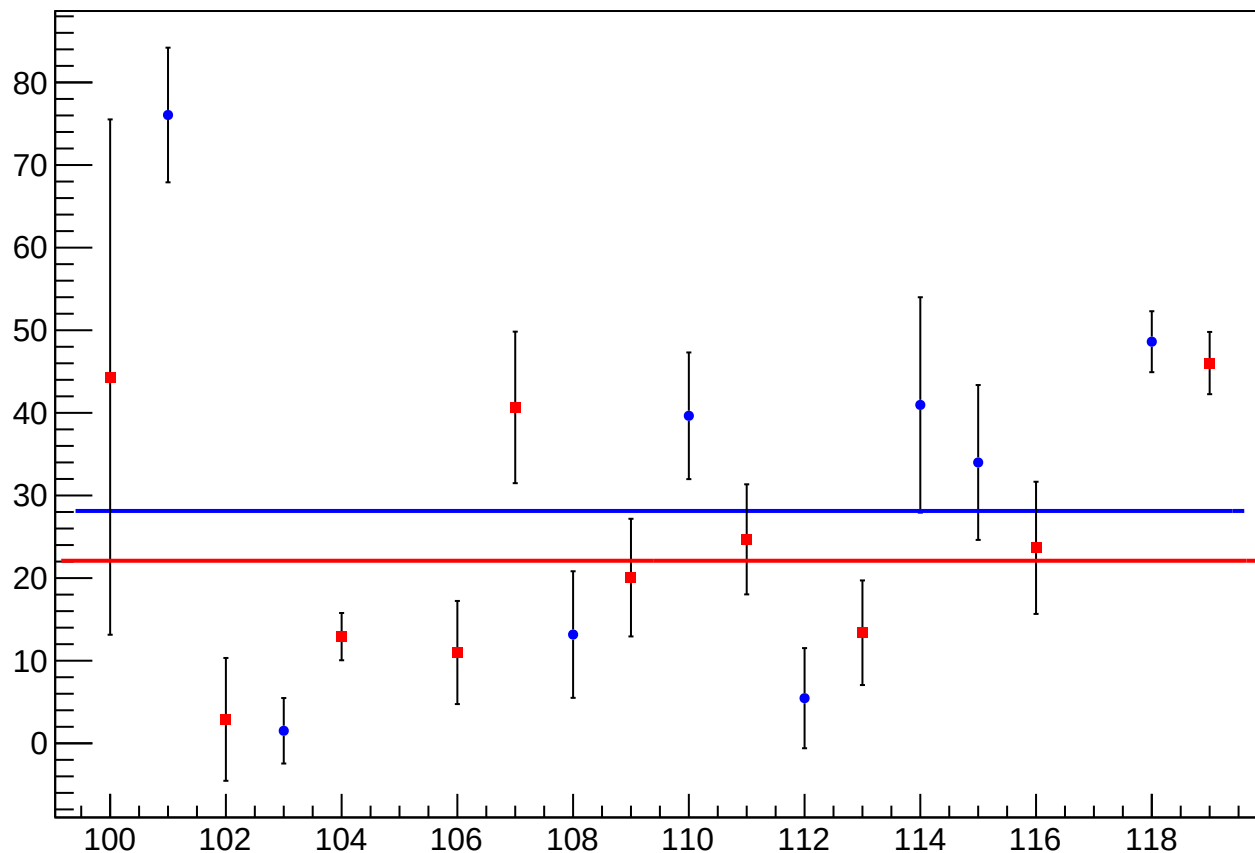
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 167.391+/-1.105  $\chi^2/\text{NDF}$ : 13958.6/17

- 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: 28.128+/-2.082  $\chi^2/\text{NDF}$ : 131.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.100+/-1.735  $\chi^2/\text{NDF}$ : 67.3/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

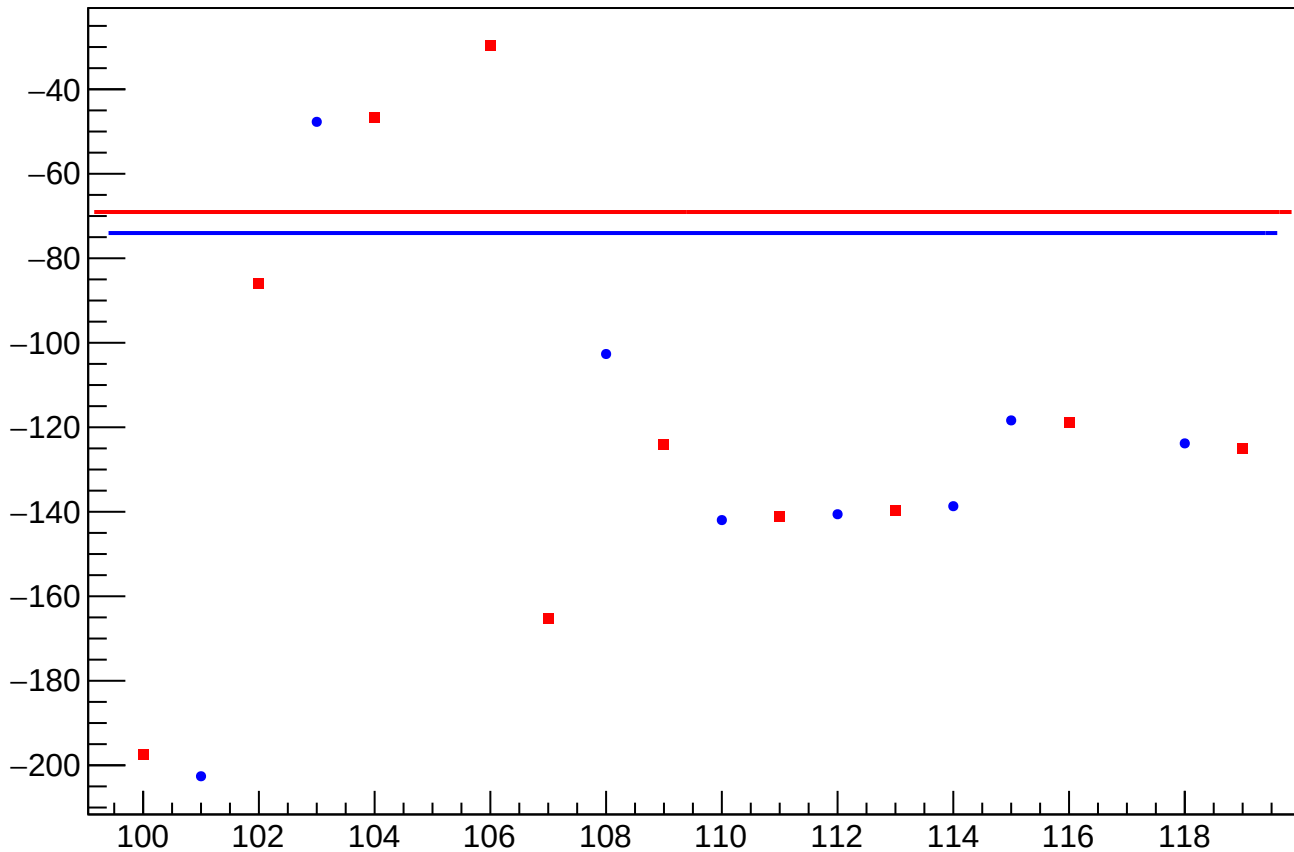
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.571+/-1.333  $\chi^2/\text{NDF}$ : 204.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -74.026 $\pm$ 0.084  $\chi^2$ /NDF: 278716.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -69.048 $\pm$ 0.077  $\chi^2$ /NDF: 256684.9/9

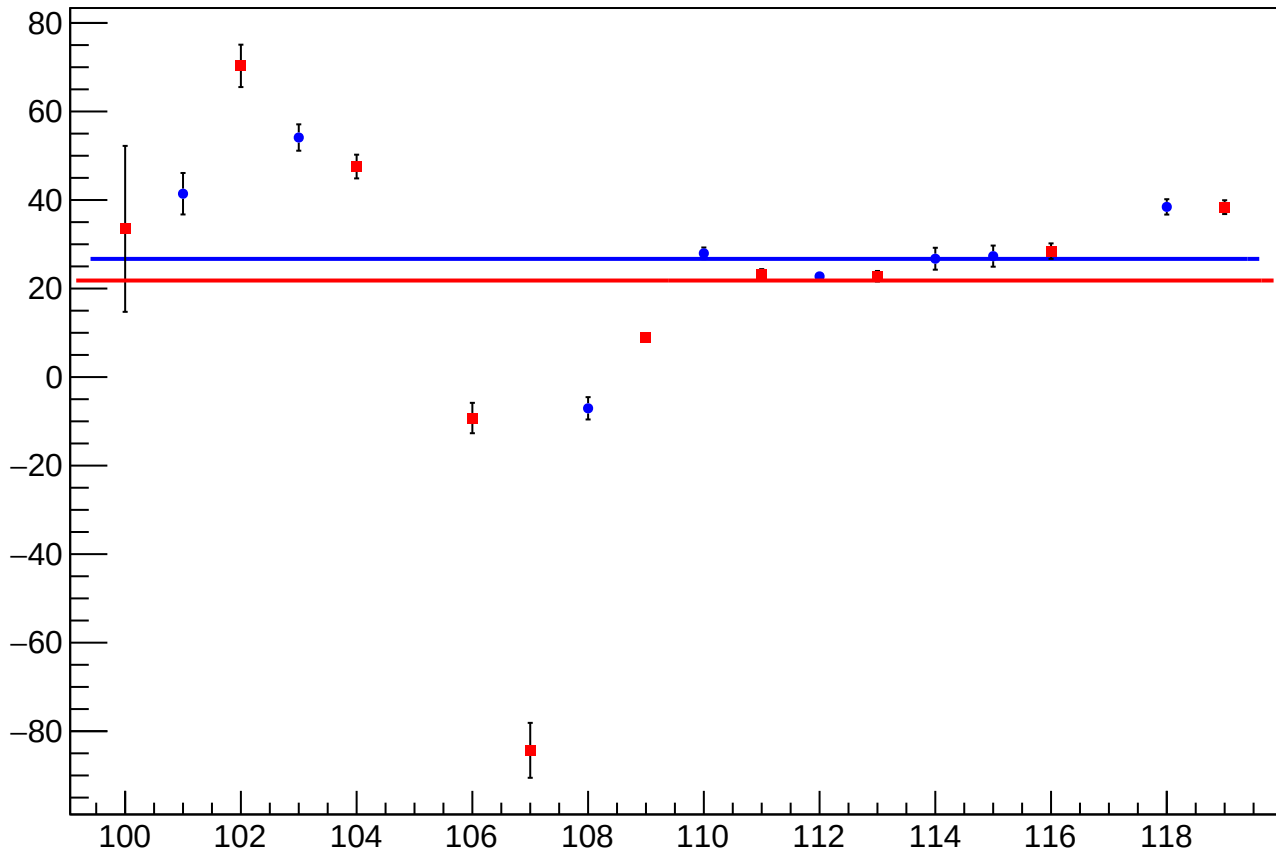
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -71.316 $\pm$ 0.057  $\chi^2$ /NDF: 537323.1/17

- 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: 26.698 $\pm$ 0.650  $\chi^2$ /NDF: 333.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.812 $\pm$ 0.551  $\chi^2$ /NDF: 839.9/9

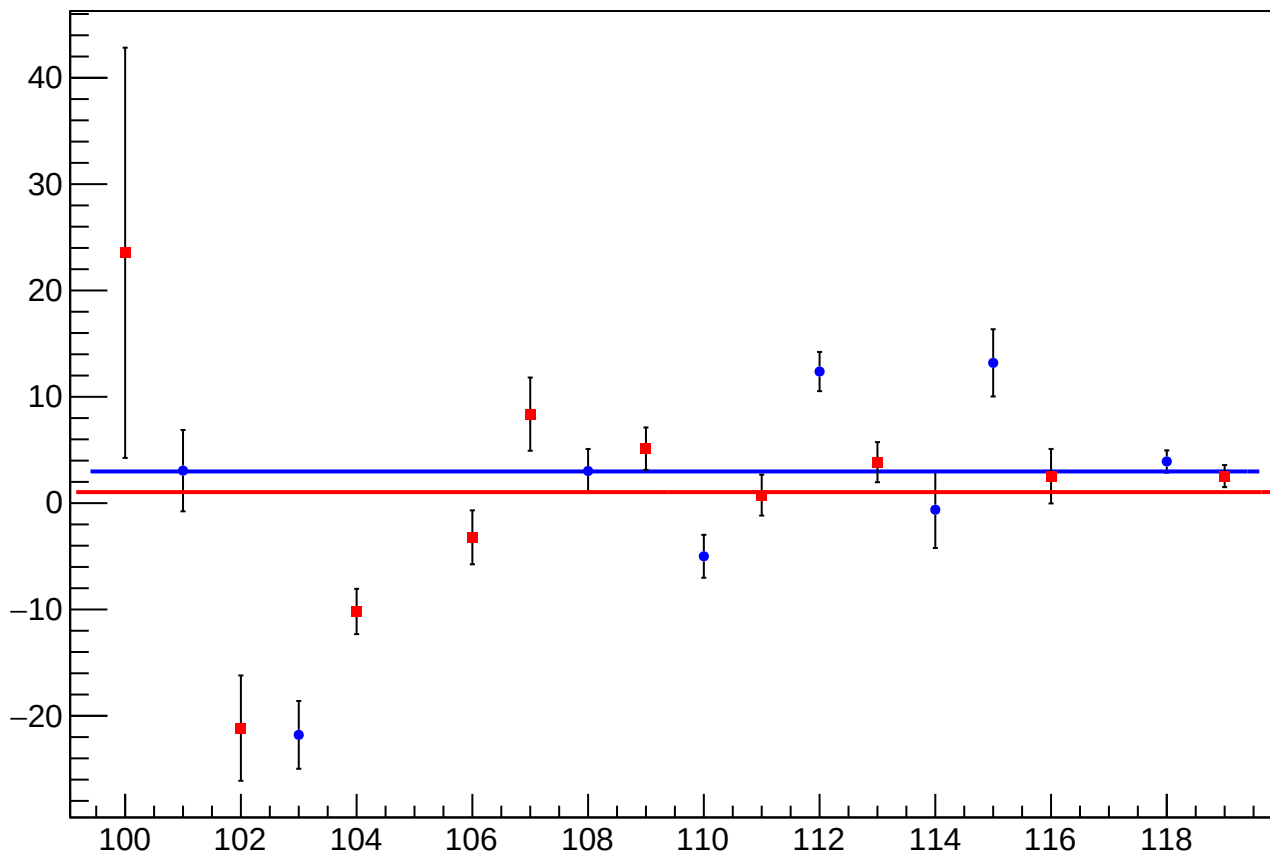
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.856 $\pm$ 0.420  $\chi^2$ /NDF: 1205.9/17

- 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: 2.981 $\pm$ 0.701  $\chi^2$ /NDF: 114.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.039 $\pm$ 0.648  $\chi^2$ /NDF: 65.4/9

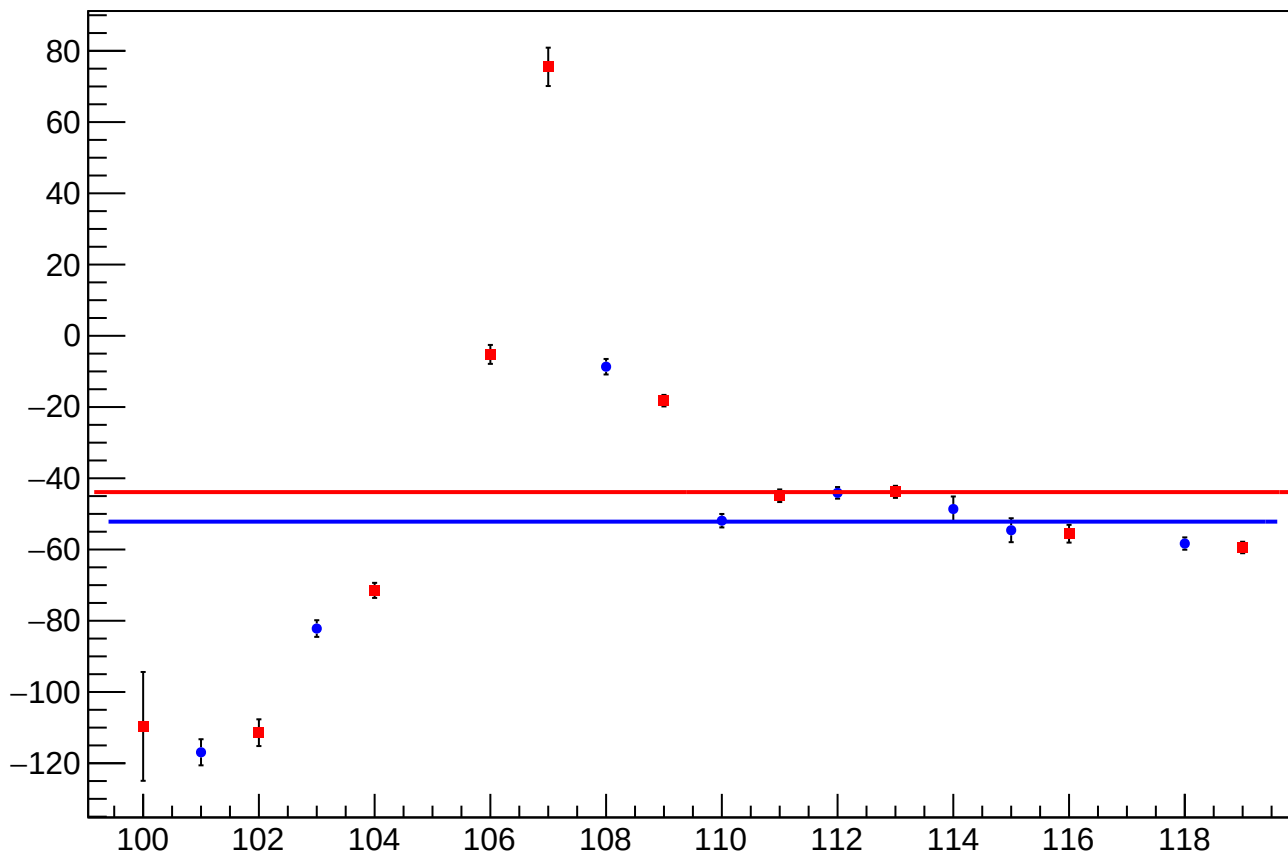
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.934 $\pm$ 0.476  $\chi^2$ /NDF: 183.9/17

- 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: -52.173+/-0.783  $\chi^2/\text{NDF}$ : 914.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -43.880+/-0.694  $\chi^2/\text{NDF}$ : 1583.9/9

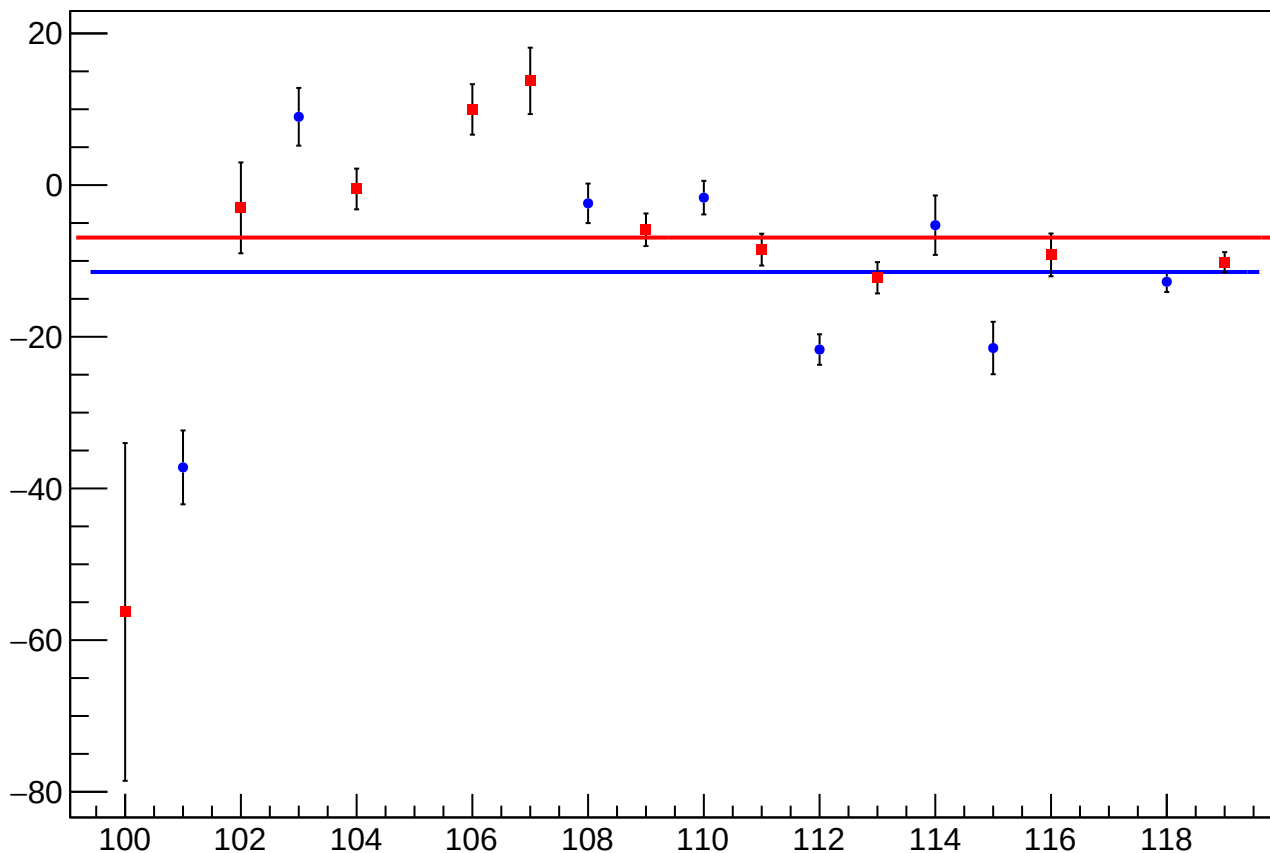
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -47.530+/-0.520  $\chi^2/\text{NDF}$ : 2561.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-11.455 \pm 0.846$   $\chi^2/\text{NDF}$ : 126.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-6.917 \pm 0.772$   $\chi^2/\text{NDF}$ : 73.1/9

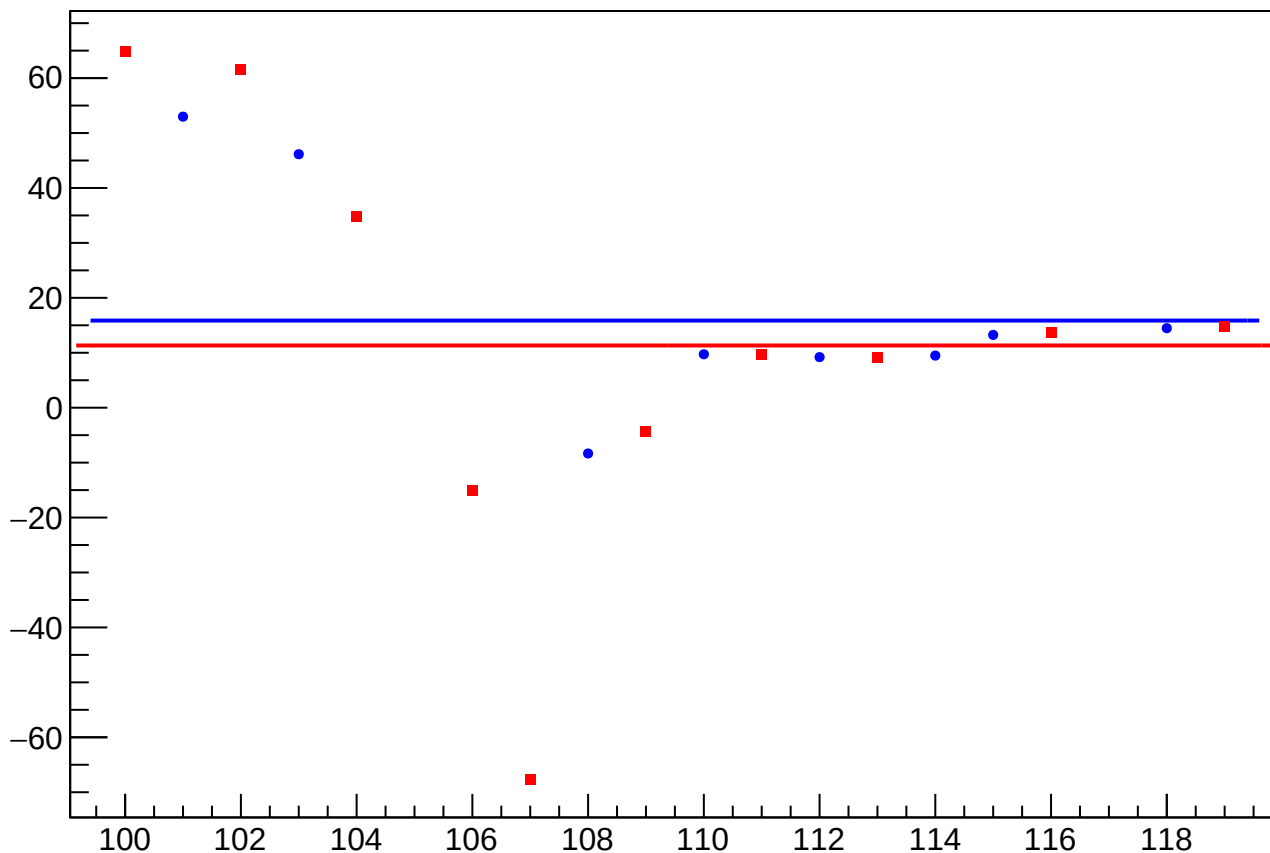
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-8.980 \pm 0.570$   $\chi^2/\text{NDF}$ : 215.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 15.861+/-0.048  $\chi^2/\text{NDF}$ : 204190.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11.325+/-0.045  $\chi^2/\text{NDF}$ : 343045.2/9

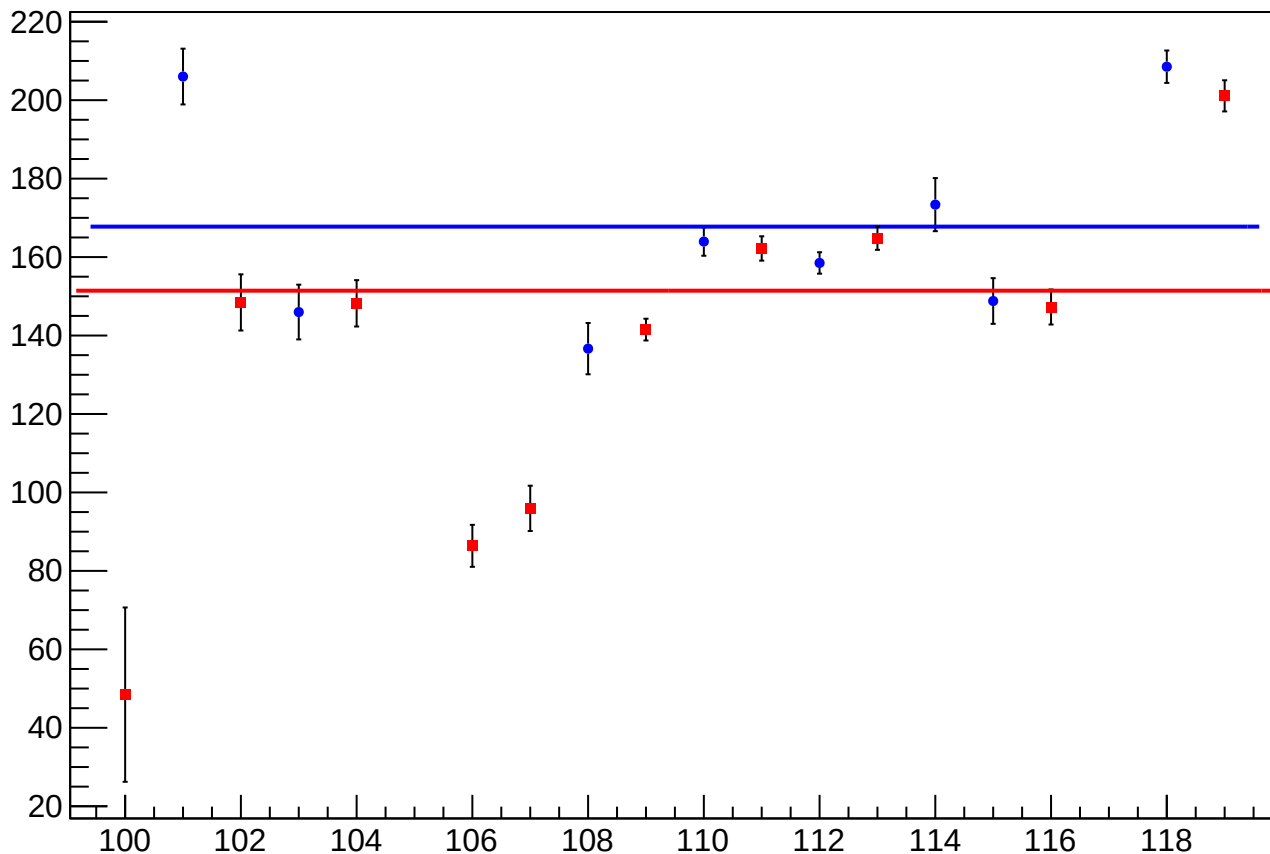
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.471+/-0.033  $\chi^2/\text{NDF}$ : 551996.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 167.765+/-1.614  $\chi^2/\text{NDF}$ : 182.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 151.433+/-1.317  $\chi^2/\text{NDF}$ : 464.8/9

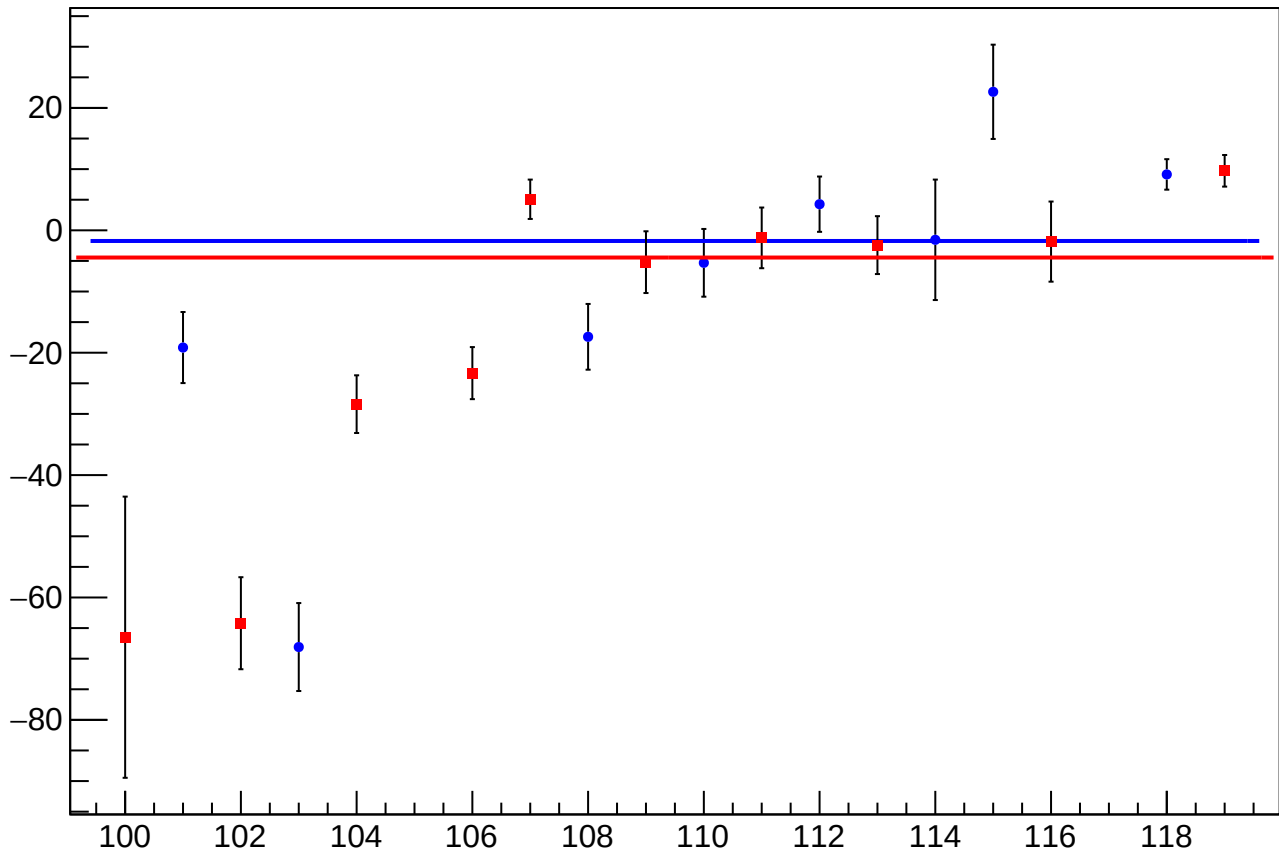
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 157.965+/-1.020  $\chi^2/\text{NDF}$ : 708.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -1.741+/-1.682  $\chi^2/\text{NDF}$ : 134.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.446+/-1.394  $\chi^2/\text{NDF}$ : 155.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

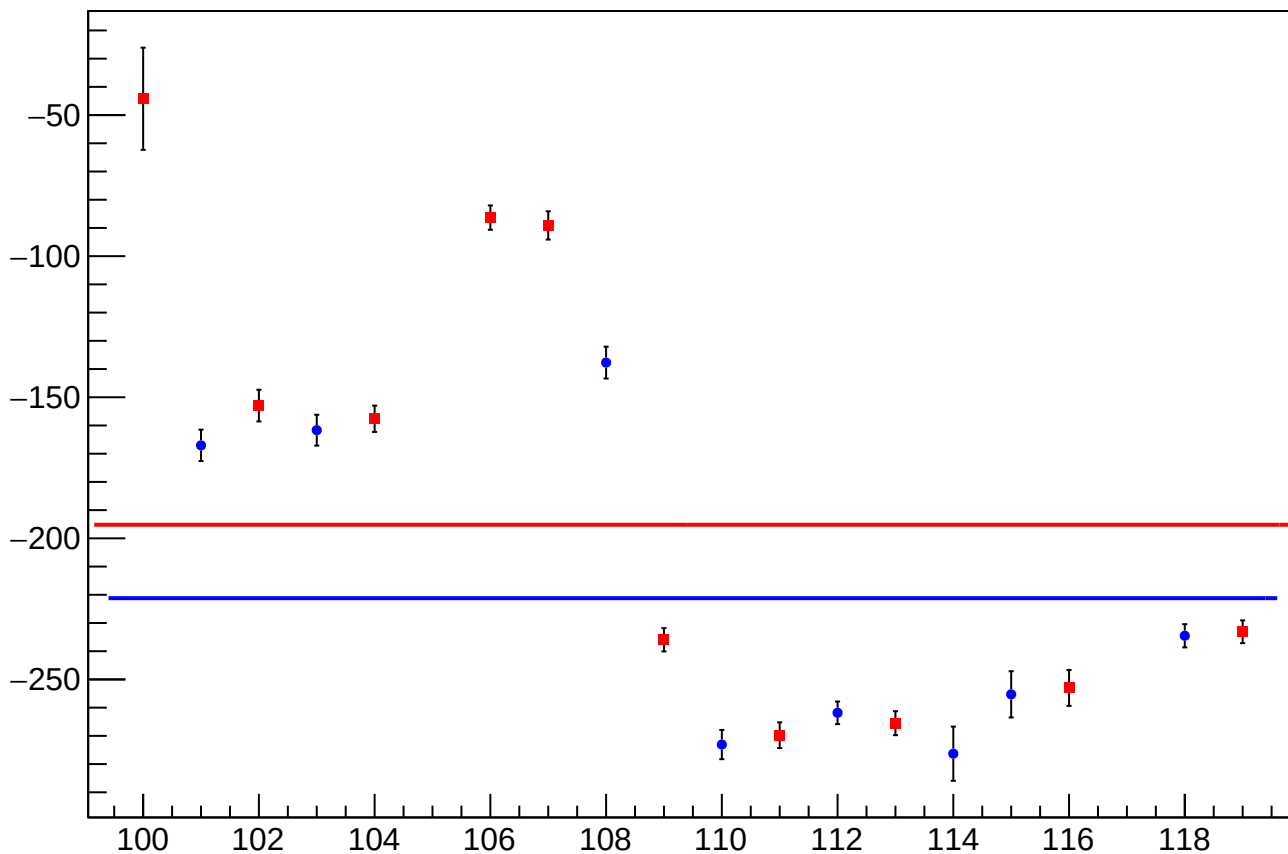
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.344+/-1.073  $\chi^2/\text{NDF}$ : 291.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -221.204 $\pm$ 1.884  $\chi^2$ /NDF: 696.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -195.188 $\pm$ 1.540  $\chi^2$ /NDF: 2084.2/9

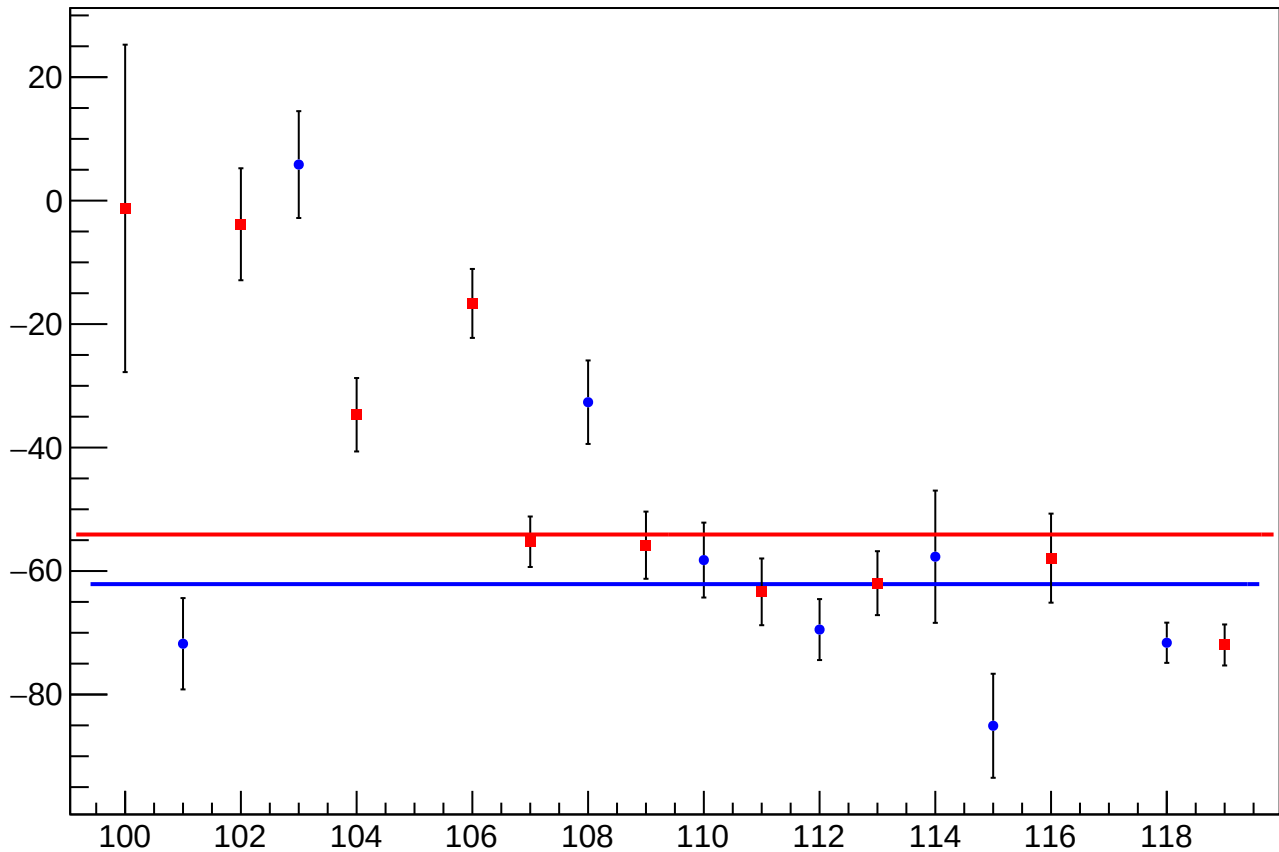
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -205.603 $\pm$ 1.192  $\chi^2$ /NDF: 2894.7/17

- 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: -62.120 $\pm$ 2.047  $\chi^2$ /NDF: 101.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -54.083 $\pm$ 1.693  $\chi^2$ /NDF: 124.9/9

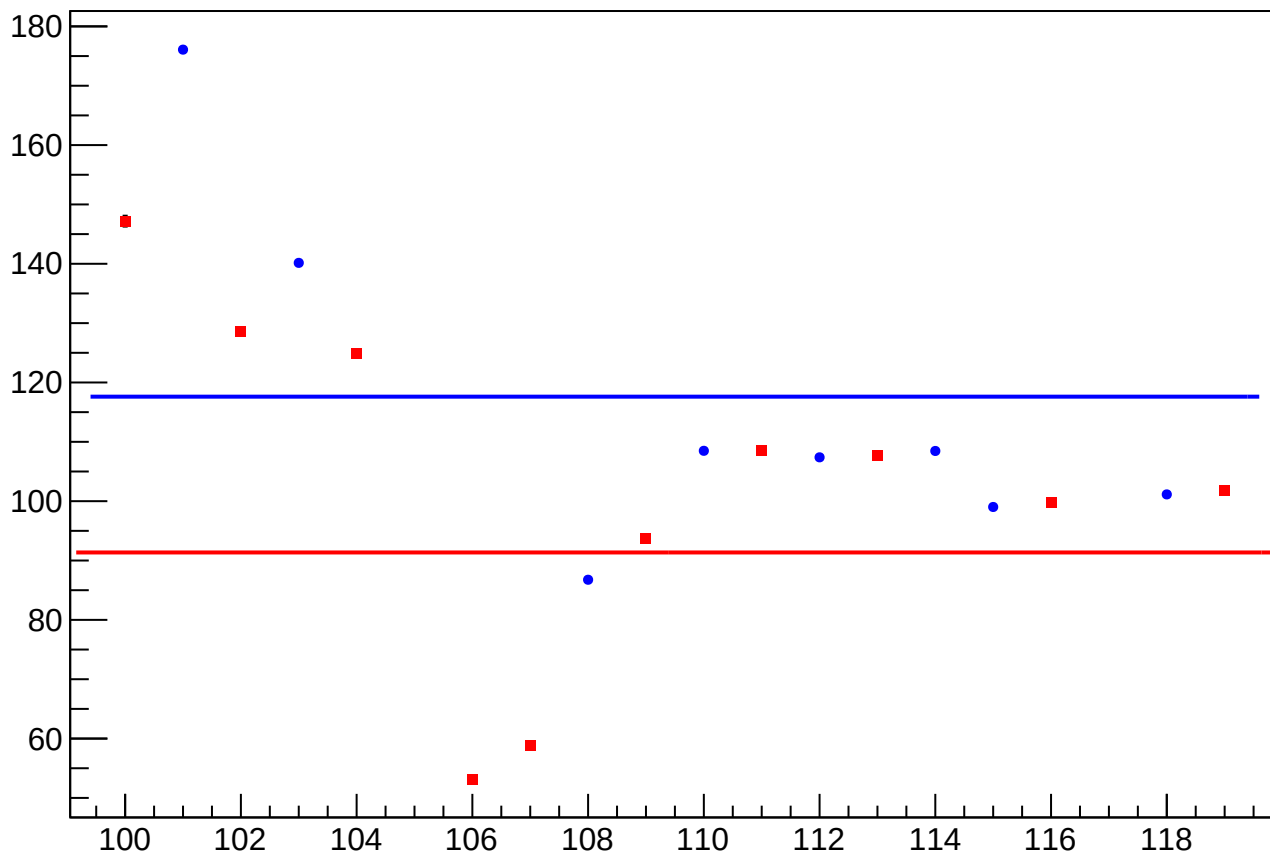
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -57.348 $\pm$ 1.305  $\chi^2$ /NDF: 235.2/17

- 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: 117.611 $\pm$ 0.115  $\chi^2$ /NDF: 63570.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 91.359 $\pm$ 0.087  $\chi^2$ /NDF: 119734.5/9

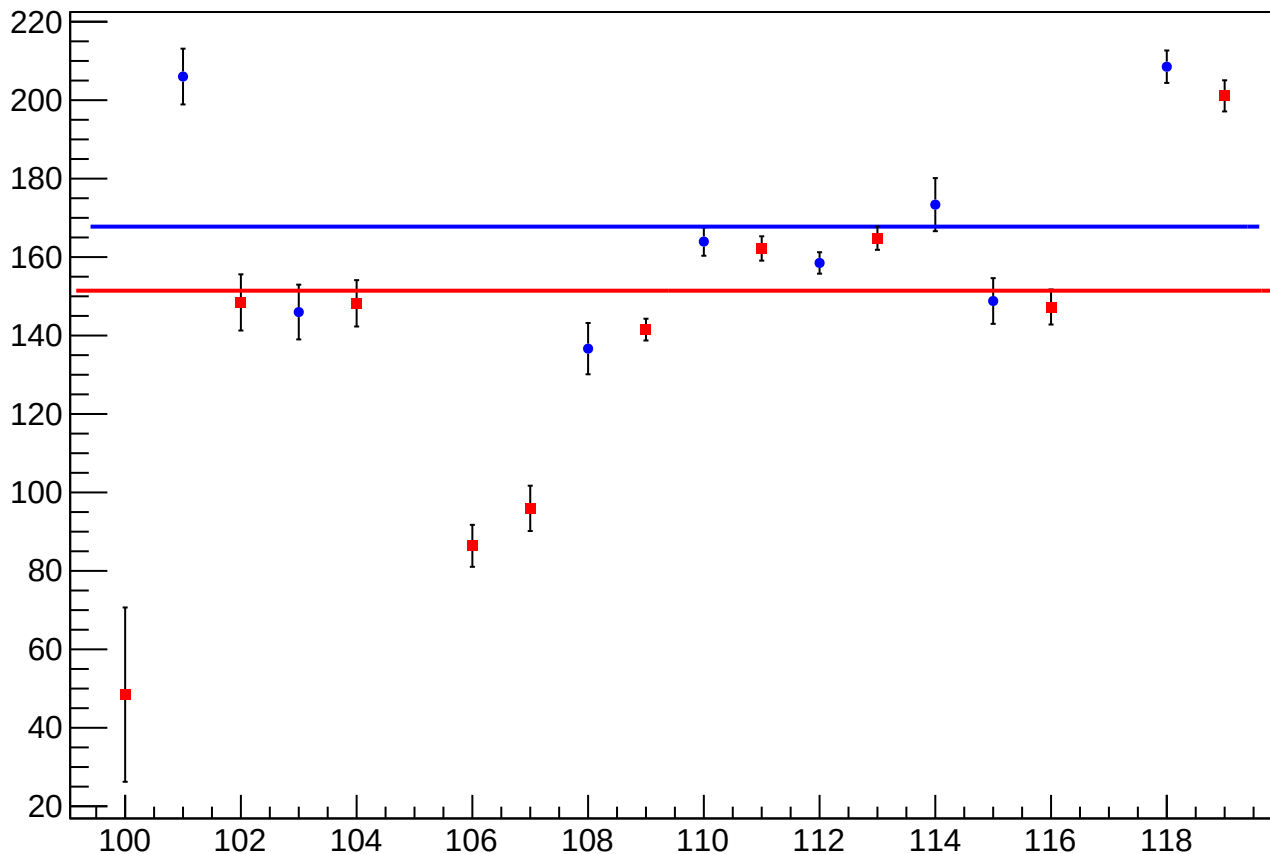
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 101.010 $\pm$ 0.070  $\chi^2$ /NDF: 216467.6/17

- 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: 167.765+/-1.614  $\chi^2/\text{NDF}$ : 182.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 151.433+/-1.317  $\chi^2/\text{NDF}$ : 464.8/9

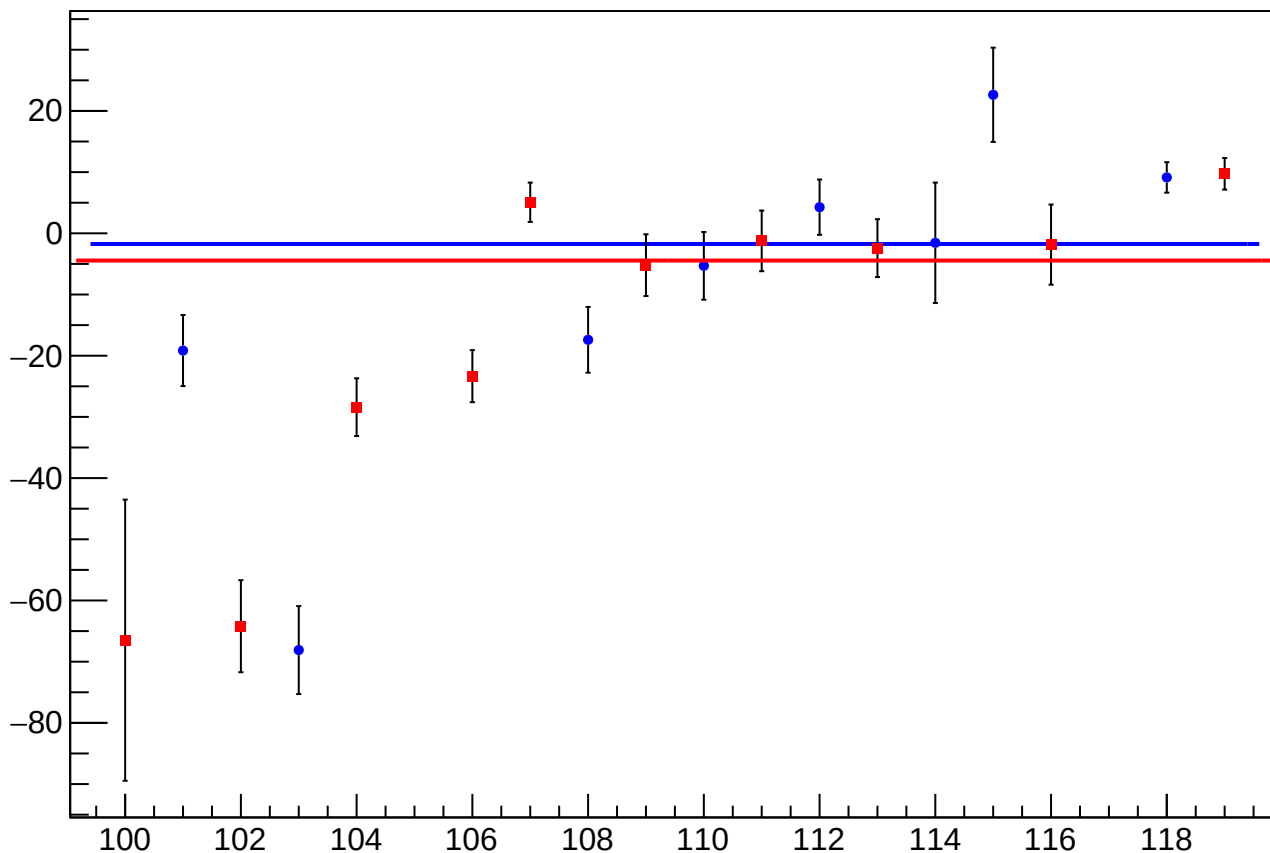
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 157.965+/-1.020  $\chi^2/\text{NDF}$ : 708.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -1.741+/-1.682  $\chi^2$ /NDF: 134.0/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -4.446+/-1.394  $\chi^2$ /NDF: 155.6/9

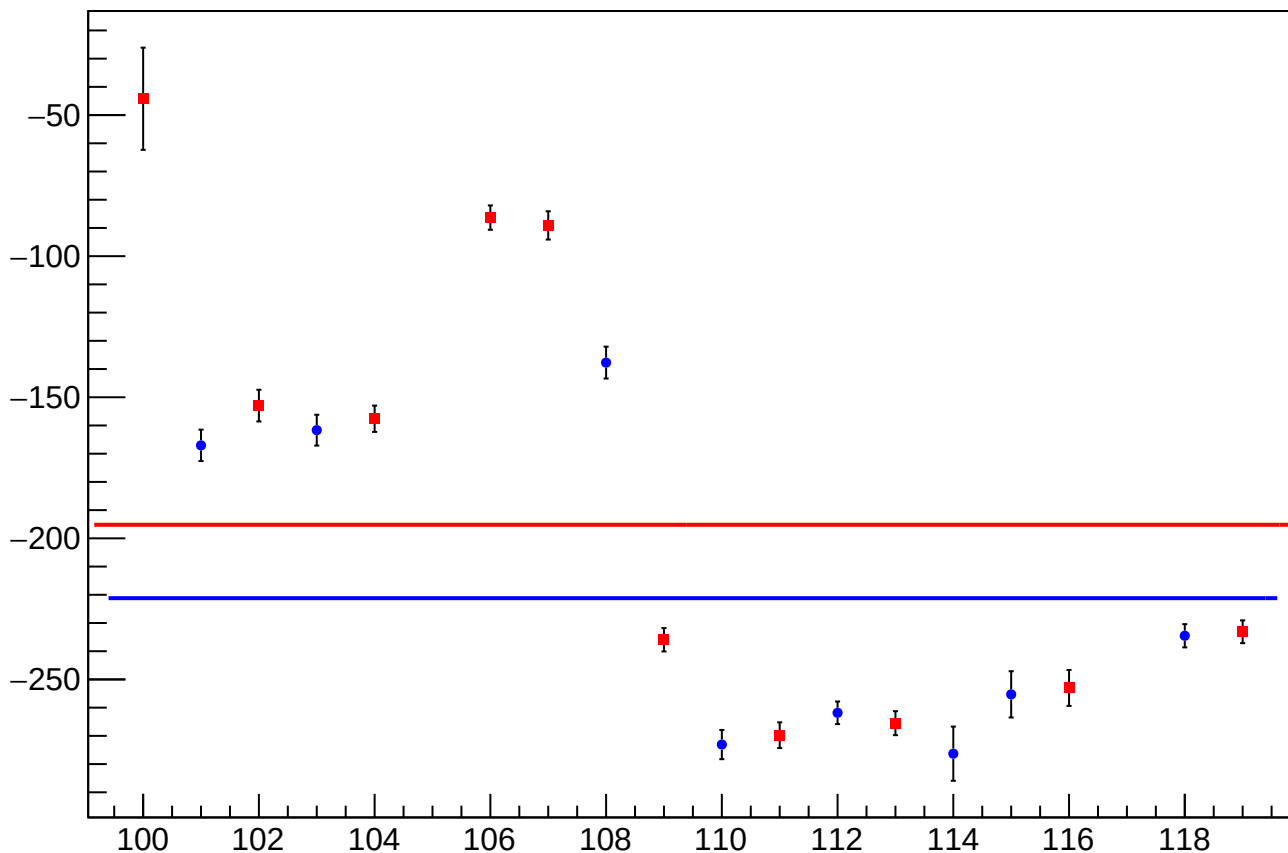
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -3.344+/-1.073  $\chi^2$ /NDF: 291.2/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -221.204+/-1.884  $\chi^2/\text{NDF}$ : 696.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -195.188+/-1.540  $\chi^2/\text{NDF}$ : 2084.2/9

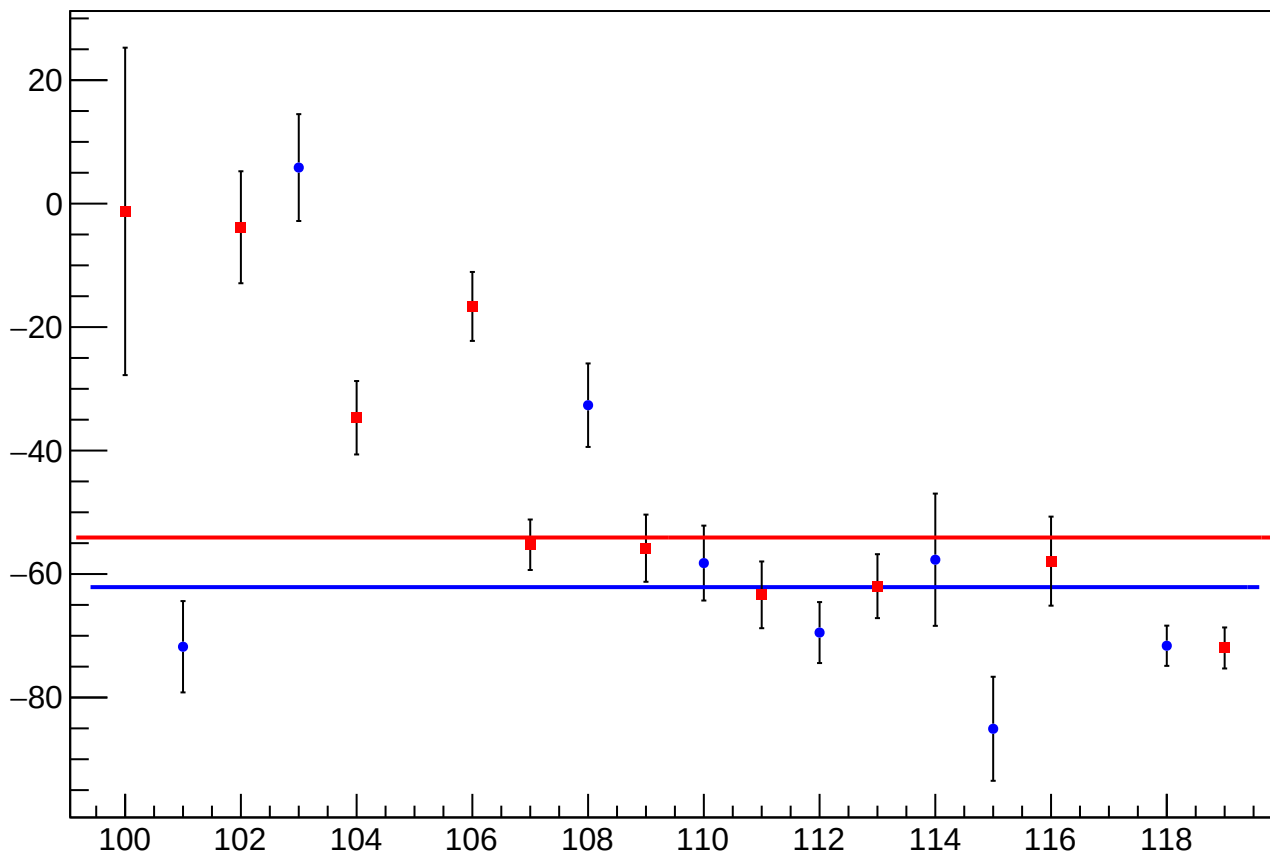
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -205.603+/-1.192  $\chi^2/\text{NDF}$ : 2894.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -62.120 $\pm$ 2.047  $\chi^2$ /NDF: 101.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -54.083 $\pm$ 1.693  $\chi^2$ /NDF: 124.9/9

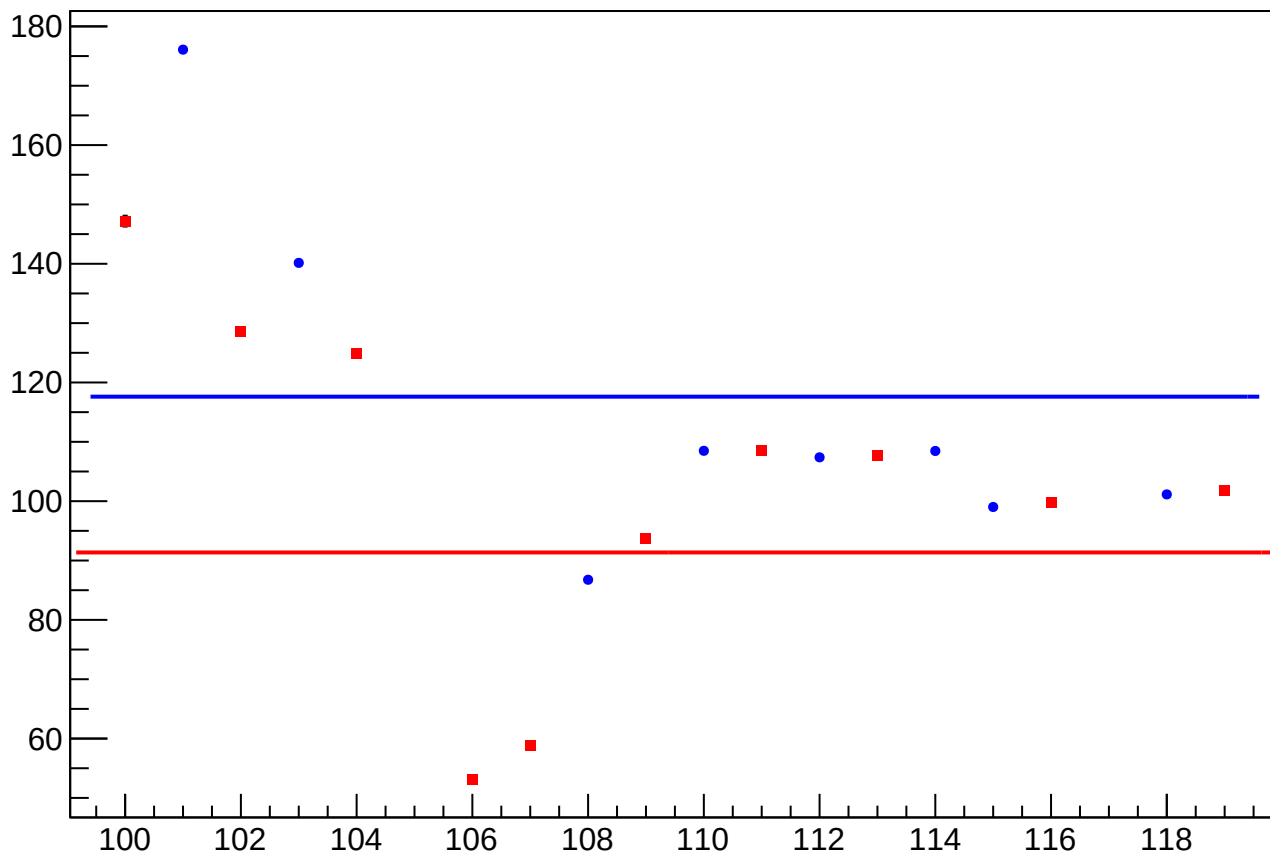
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -57.348 $\pm$ 1.305  $\chi^2$ /NDF: 235.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 117.611 $\pm$ 0.115  $\chi^2$ /NDF: 63570.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 91.359 $\pm$ 0.087  $\chi^2$ /NDF: 119734.5/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

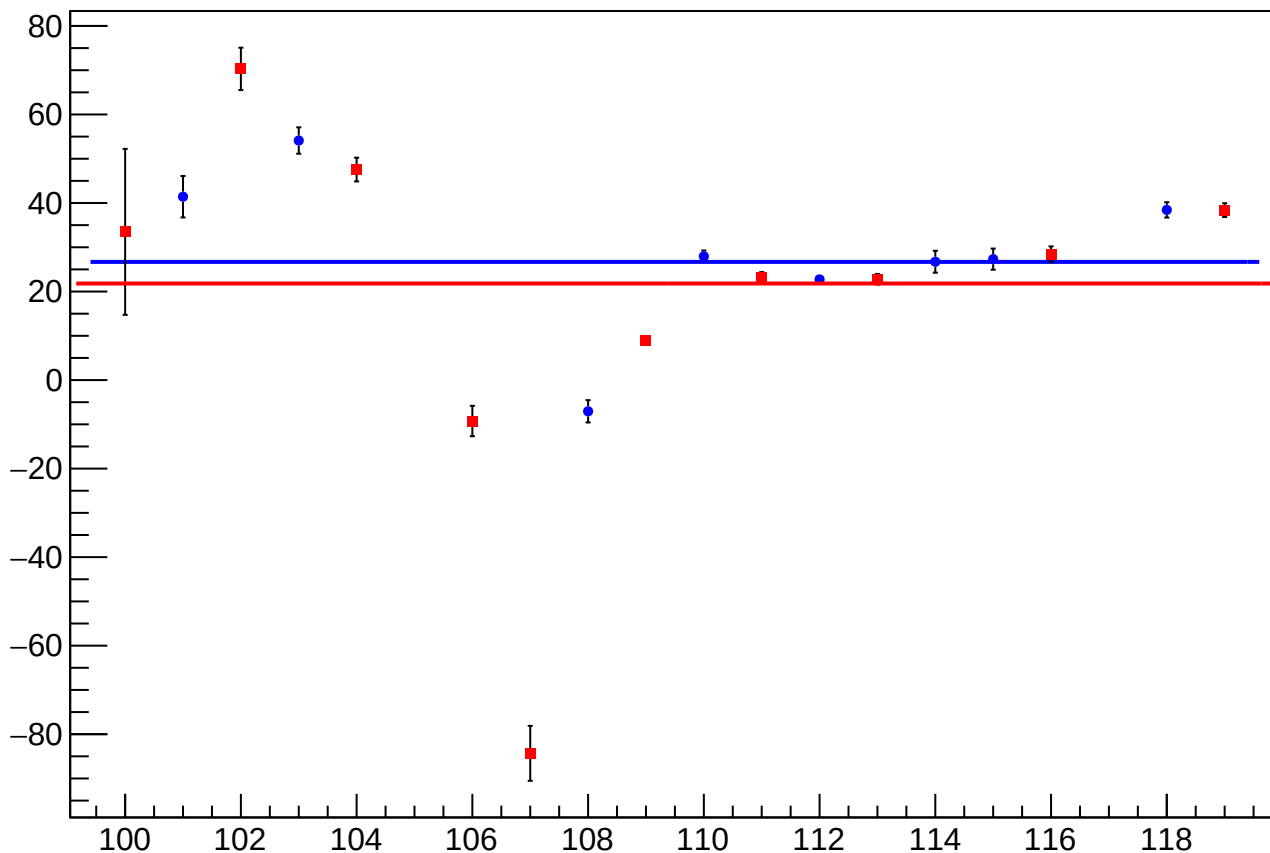
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 101.010 $\pm$ 0.070  $\chi^2$ /NDF: 216467.6/17

- 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: 26.698+/-0.650  $\chi^2/\text{NDF}$ : 333.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.812+/-0.551  $\chi^2/\text{NDF}$ : 839.9/9

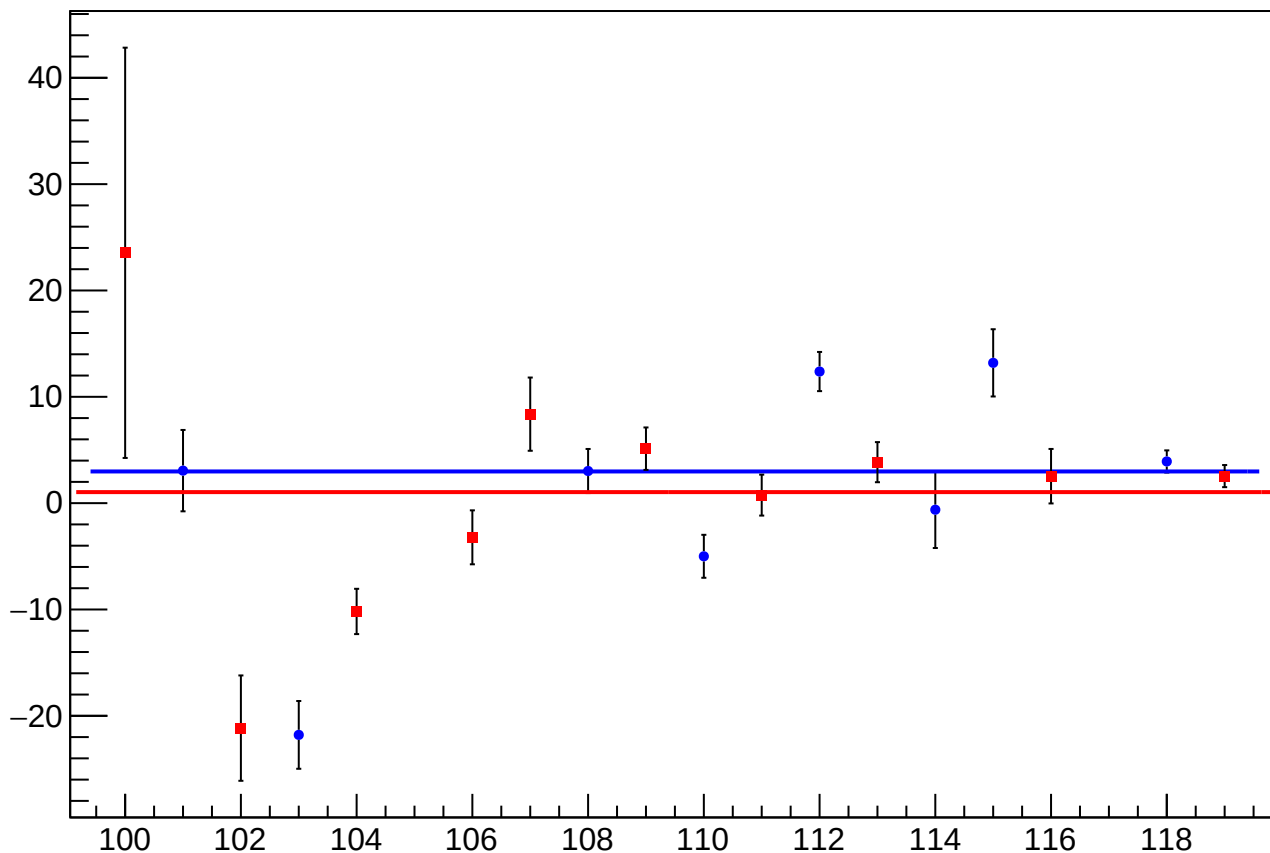
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.856+/-0.420  $\chi^2/\text{NDF}$ : 1205.9/17

- 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:  $2.981 \pm 0.701$   $\chi^2/\text{NDF}$ : 114.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1.039 \pm 0.648$   $\chi^2/\text{NDF}$ : 65.4/9

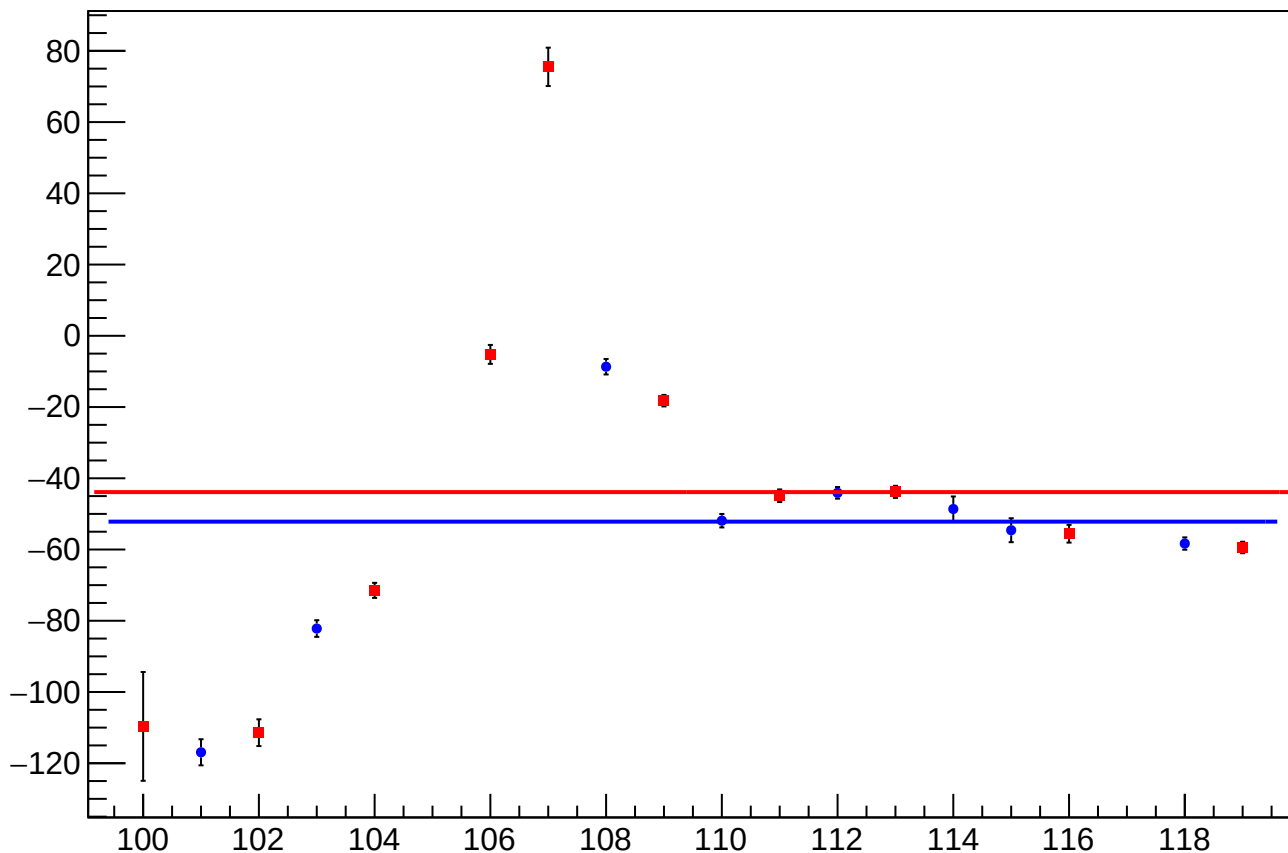
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $1.934 \pm 0.476$   $\chi^2/\text{NDF}$ : 183.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -52.173 $\pm$ 0.783  $\chi^2$ /NDF: 914.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -43.880 $\pm$ 0.694  $\chi^2$ /NDF: 1583.9/9

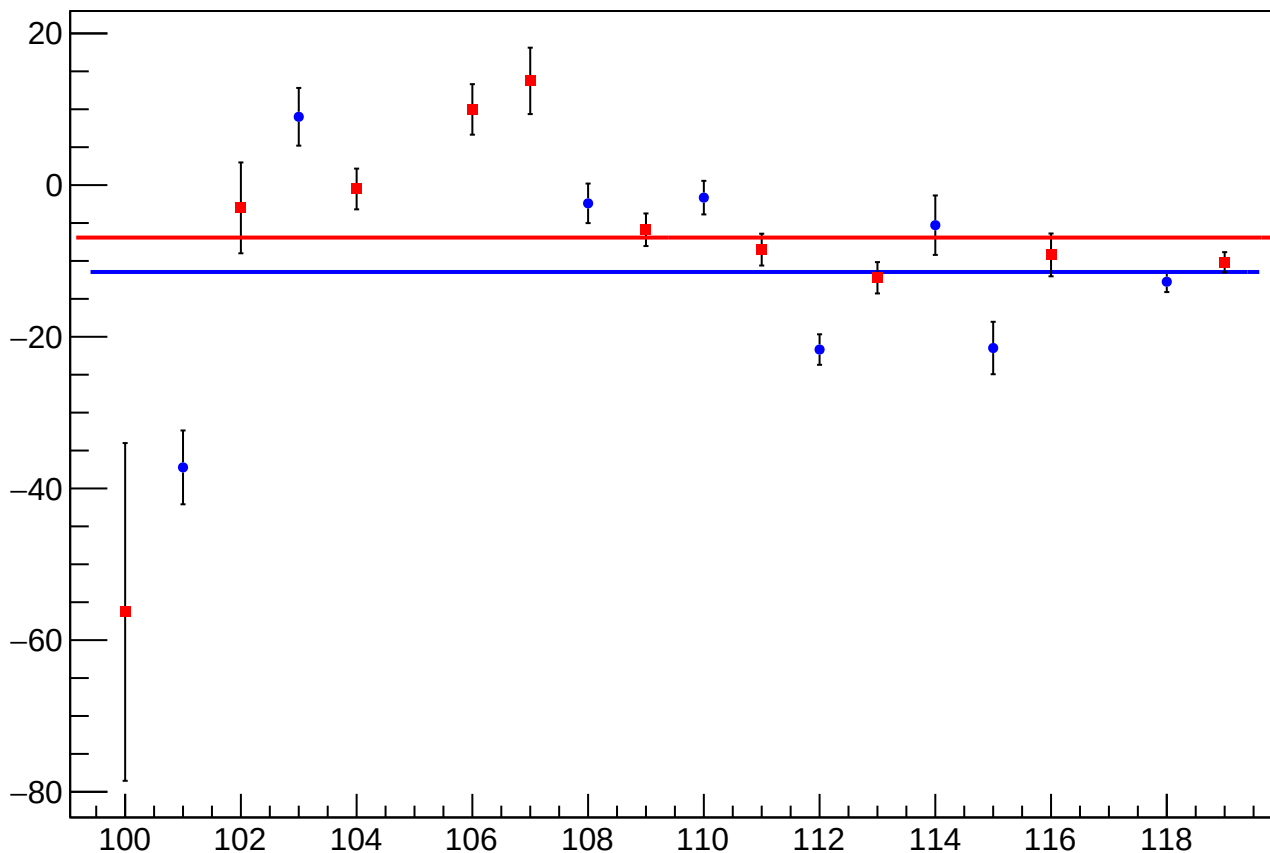
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -47.530 $\pm$ 0.520  $\chi^2$ /NDF: 2561.3/17

- 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:  $-11.455 \pm 0.846$   $\chi^2/\text{NDF}$ : 126.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-6.917 \pm 0.772$   $\chi^2/\text{NDF}$ : 73.1/9

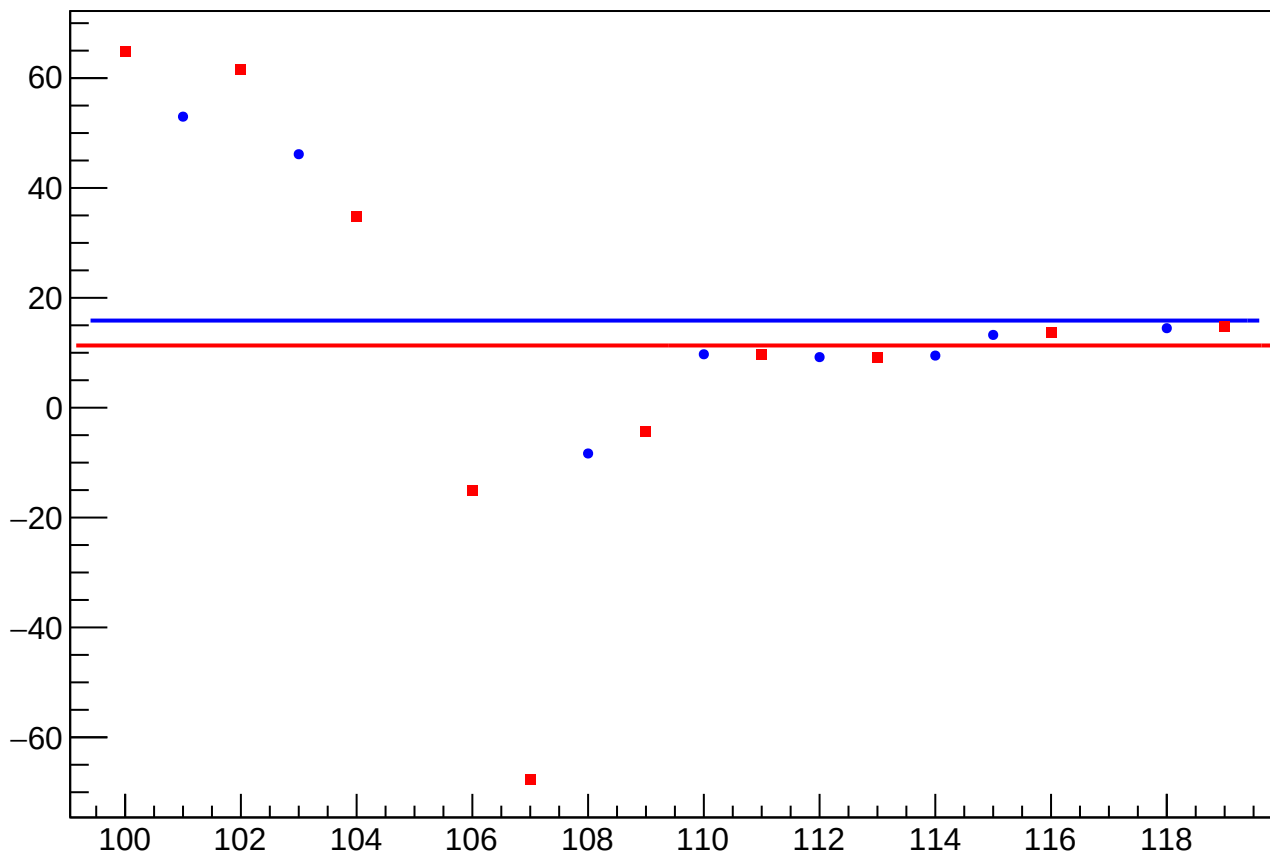
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-8.980 \pm 0.570$   $\chi^2/\text{NDF}$ : 215.0/17

- 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: 15.861 $\pm$ 0.048  $\chi^2$ /NDF: 204190.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11.325 $\pm$ 0.045  $\chi^2$ /NDF: 343045.2/9

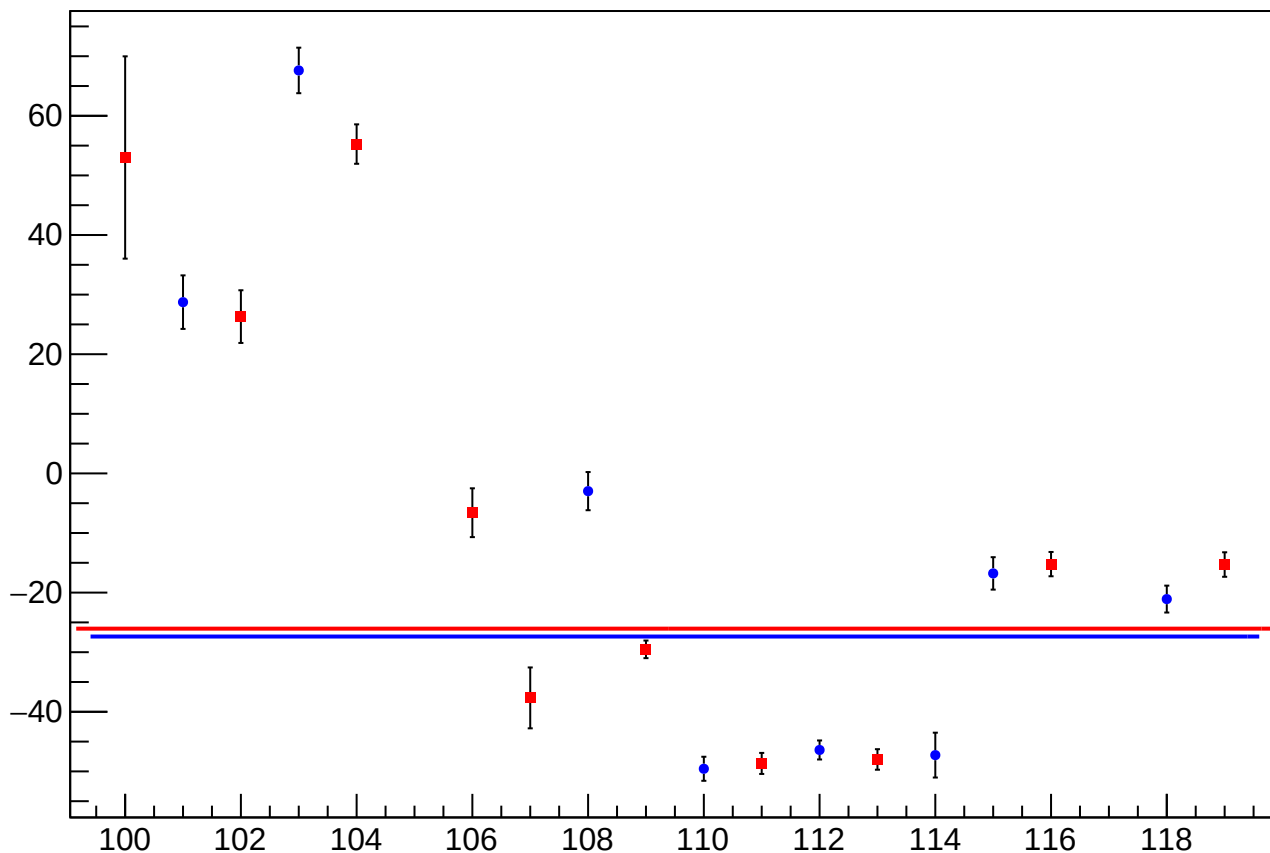
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 13.471 $\pm$ 0.033  $\chi^2$ /NDF: 551996.2/17

- 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: -27.370 $\pm$ 0.892  $\chi^2$ /NDF: 1146.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -26.049 $\pm$ 0.738  $\chi^2$ /NDF: 1181.2/9

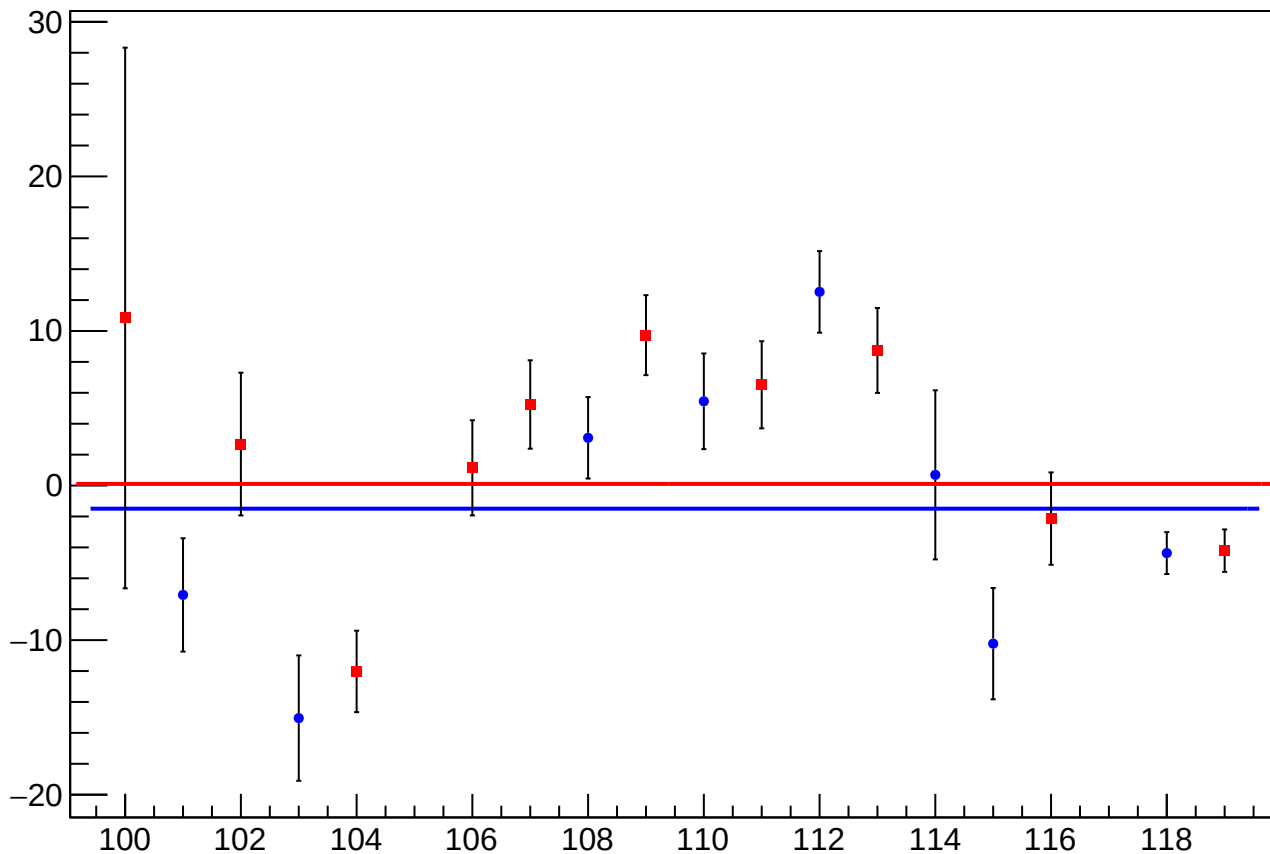
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -26.585 $\pm$ 0.568  $\chi^2$ /NDF: 2329.0/17

- 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: -1.496+/-0.920  $\chi^2/\text{NDF}$ : 60.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.106+/-0.824  $\chi^2/\text{NDF}$ : 64.6/9

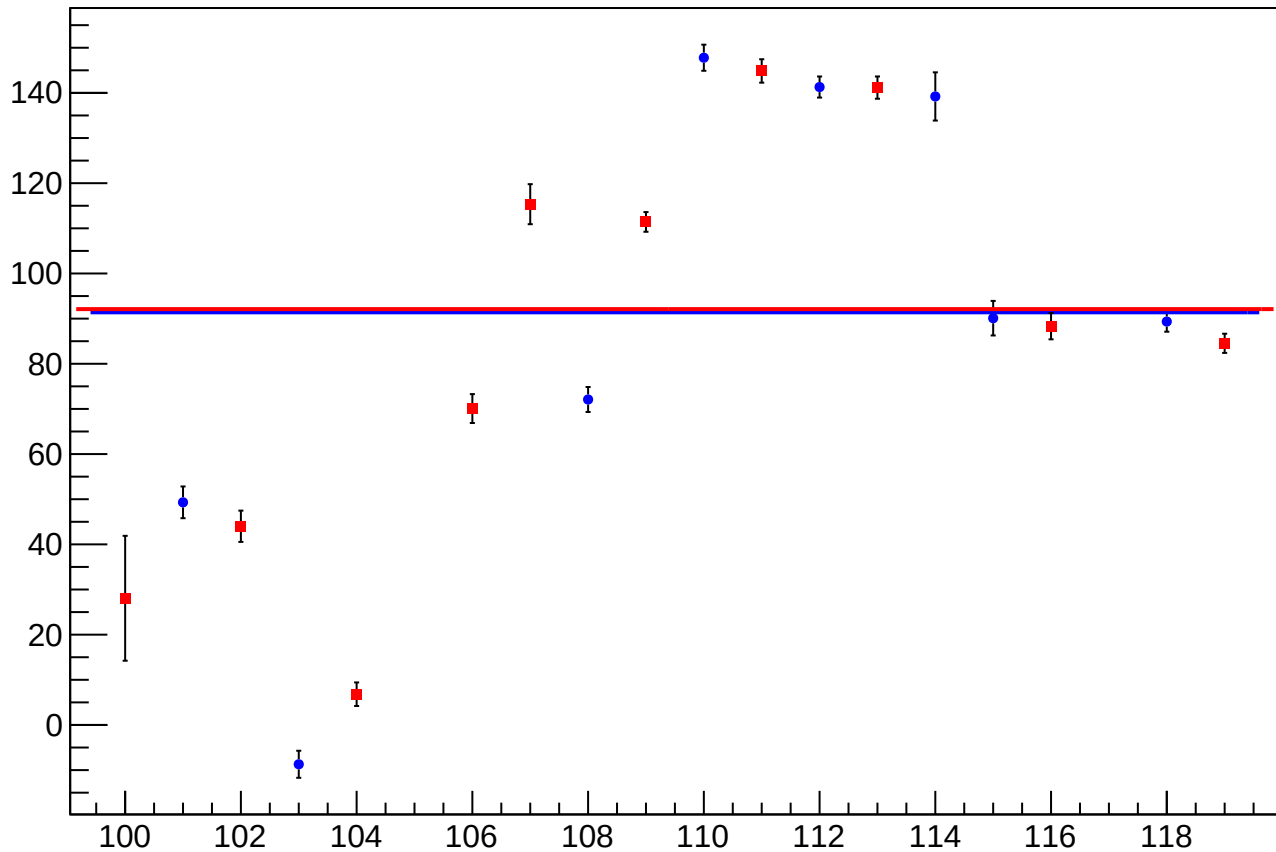
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.607+/-0.614  $\chi^2/\text{NDF}$ : 126.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 91.399 $\pm$ 1.038  $\chi^2$ /NDF: 2225.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 92.107 $\pm$ 0.896  $\chi^2$ /NDF: 2258.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

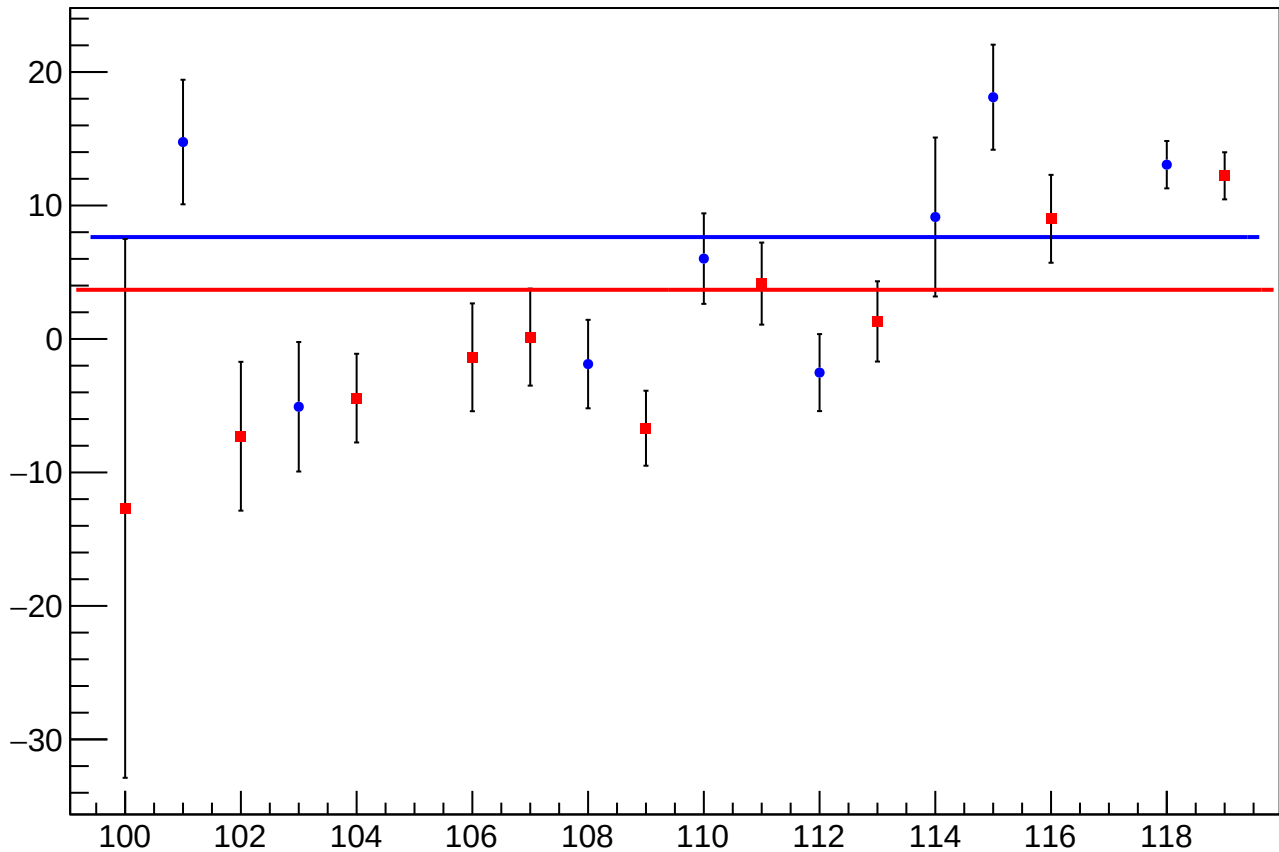
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 91.805 $\pm$ 0.678  $\chi^2$ /NDF: 4485.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 7.635 $\pm$ 1.120  $\chi^2$ /NDF: 46.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.685 $\pm$ 0.991  $\chi^2$ /NDF: 53.3/9

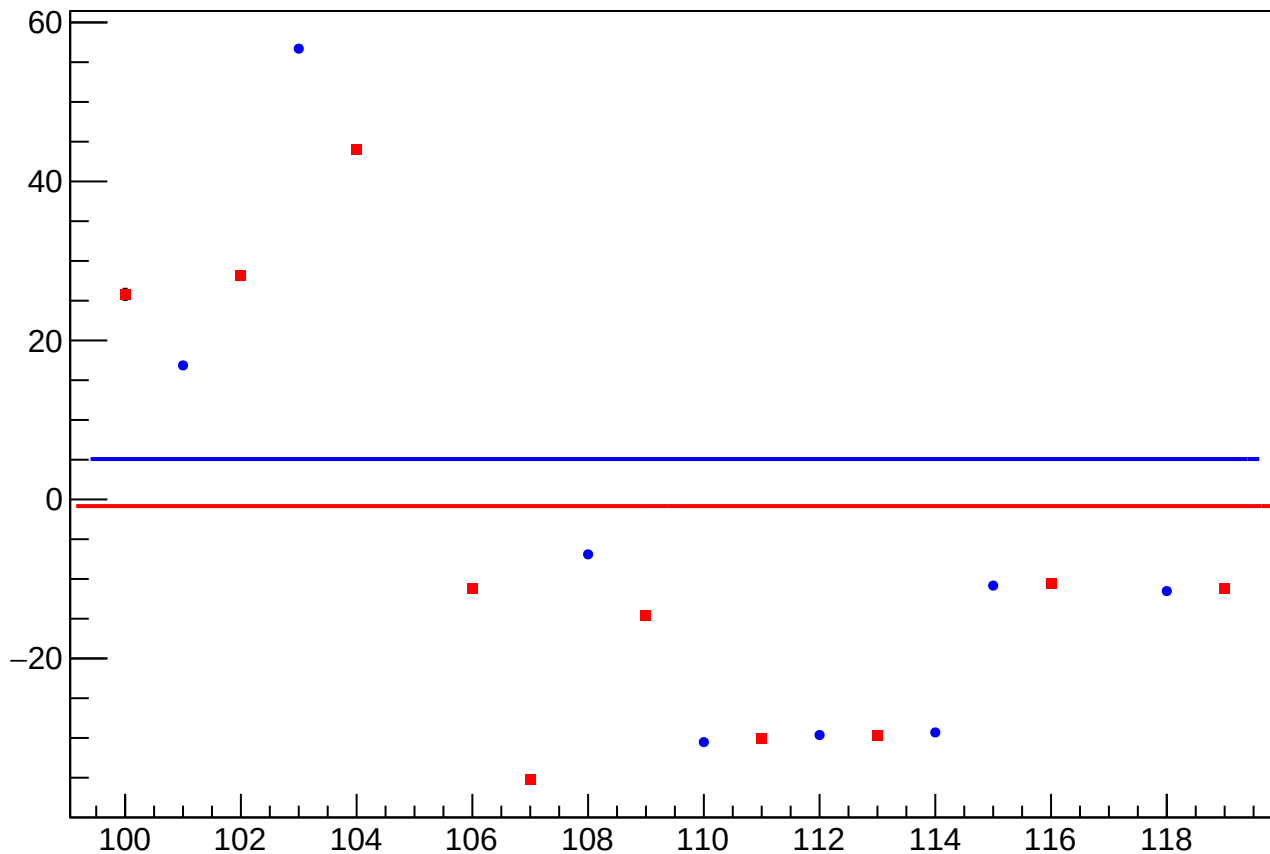
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.418 $\pm$ 0.742  $\chi^2$ /NDF: 106.8/17

- 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: 5.084 $\pm$ 0.062  $\chi^2$ /NDF: 259865.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.833 $\pm$ 0.055  $\chi^2$ /NDF: 263764.3/9

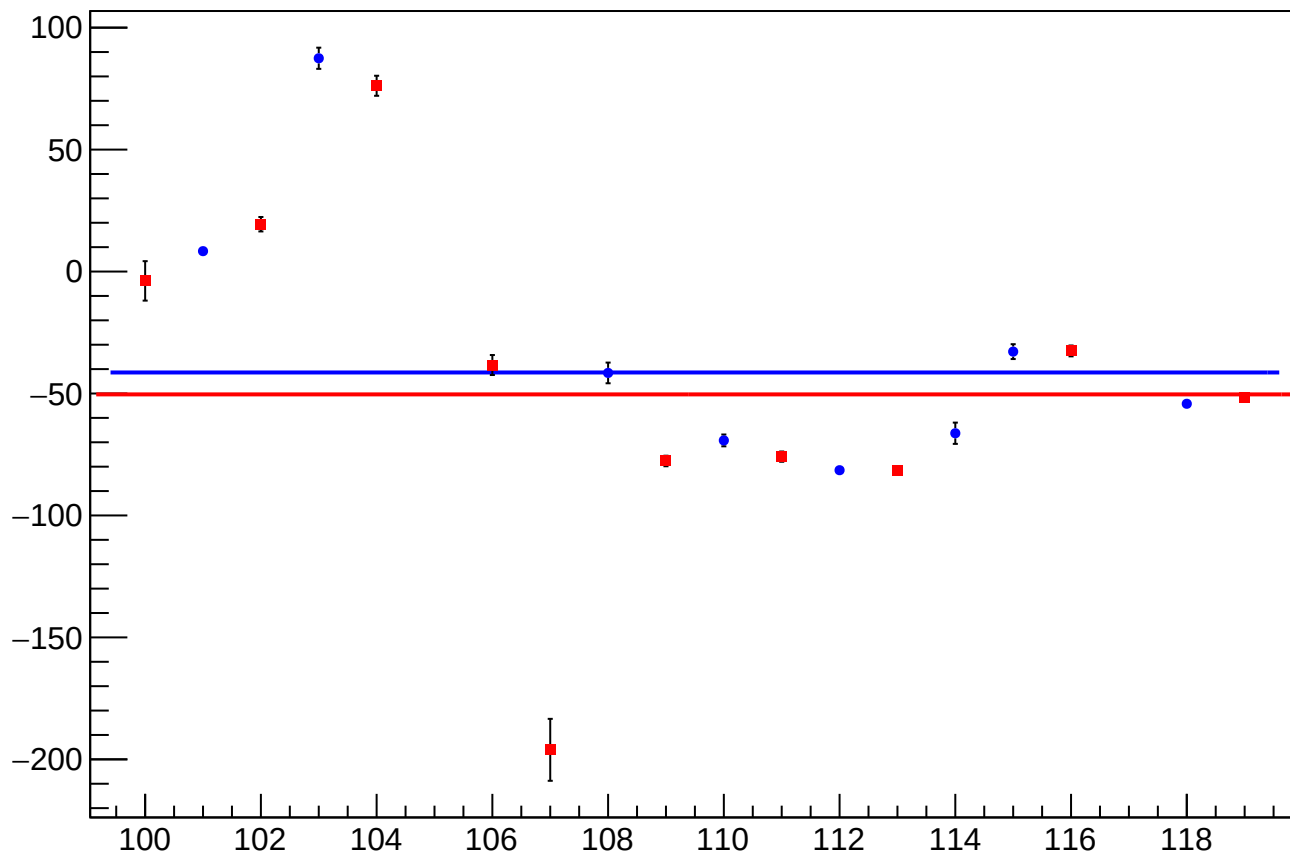
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.783 $\pm$ 0.041  $\chi^2$ /NDF: 528754.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl1\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-41.379 \pm 0.914$   $\chi^2/\text{NDF}$ : 2146.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-50.364 \pm 0.839$   $\chi^2/\text{NDF}$ : 2286.4/9

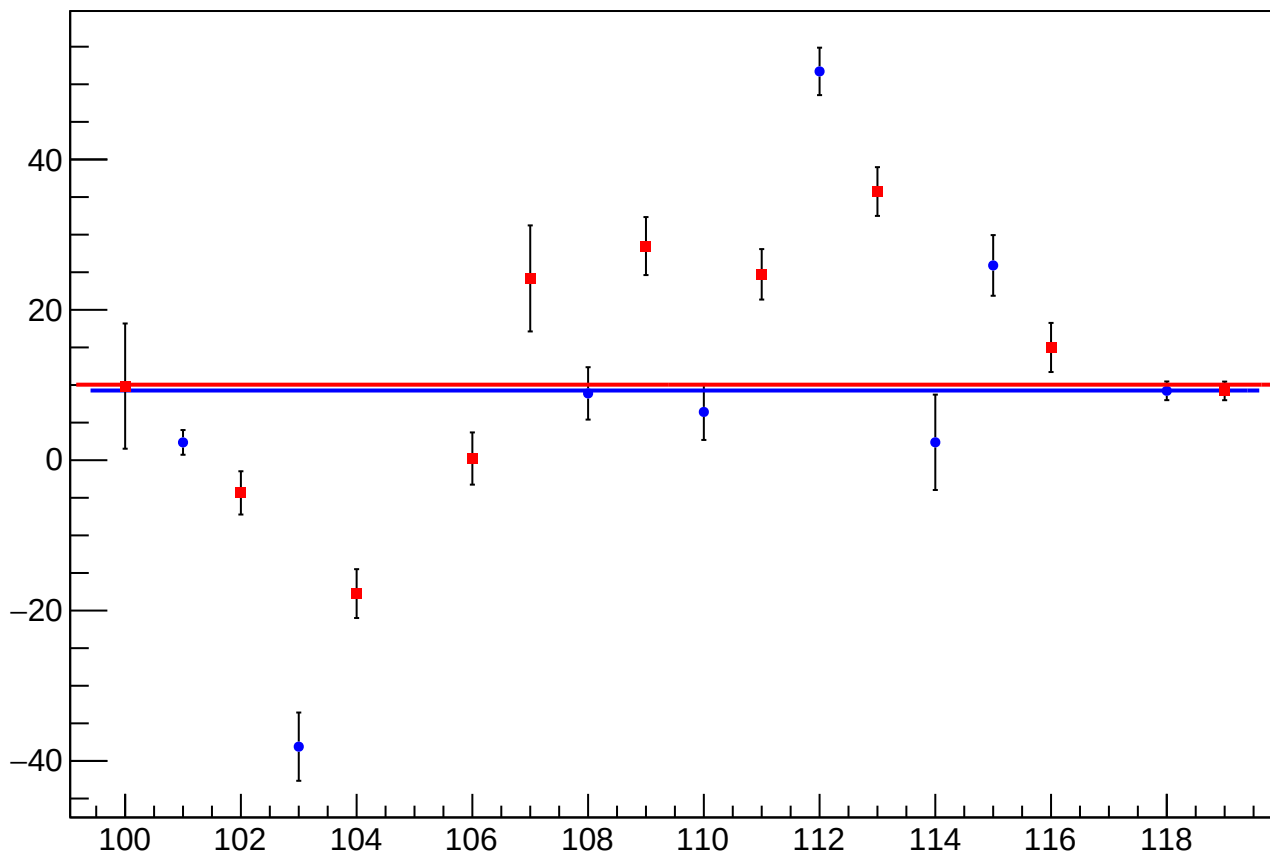
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-46.259 \pm 0.618$   $\chi^2/\text{NDF}$ : 4485.6/17

- 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: 9.269+/-0.842  $\chi^2/\text{NDF}$ : 326.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.046+/-0.866  $\chi^2/\text{NDF}$ : 217.7/9

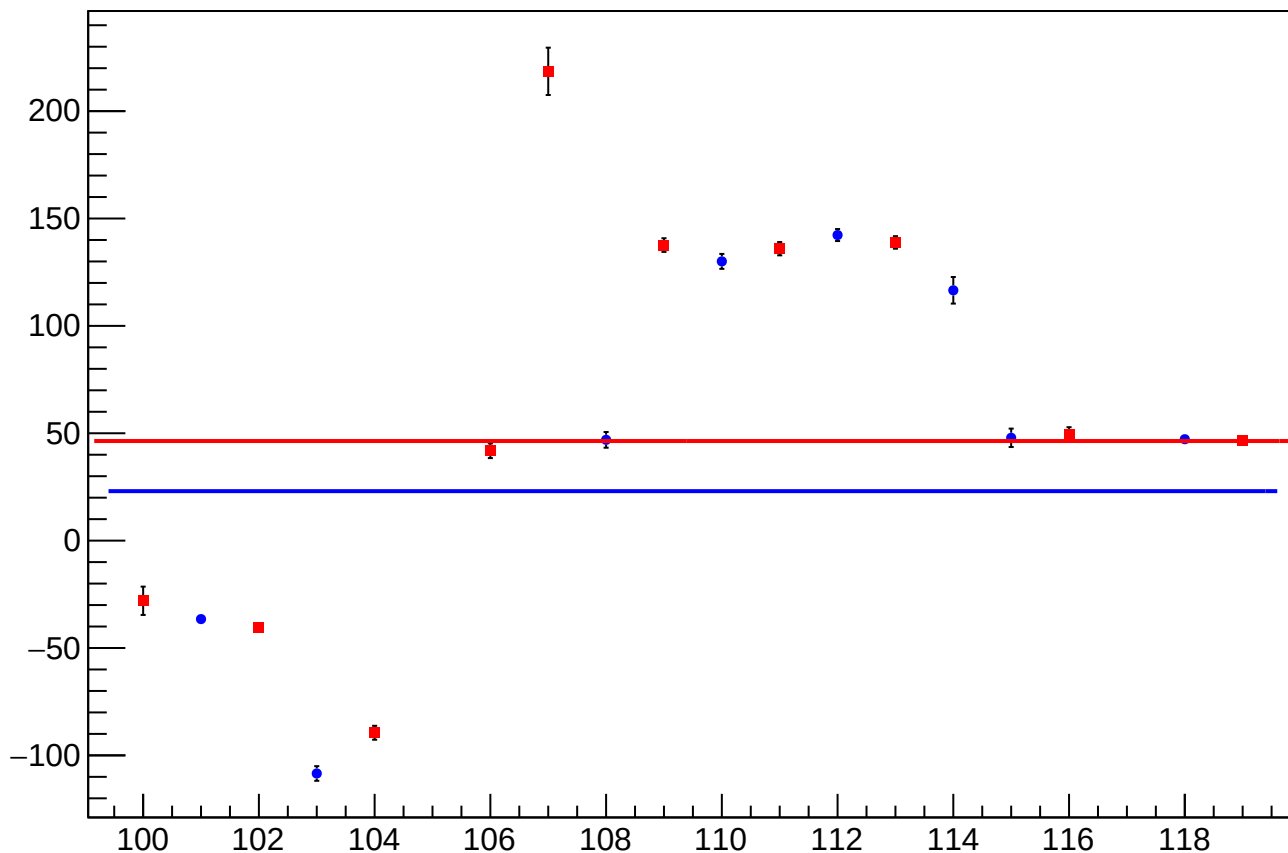
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.647+/-0.604  $\chi^2/\text{NDF}$ : 544.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 23.043+/-0.956  $\chi^2/\text{NDF}$ : 6142.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.384+/-0.958  $\chi^2/\text{NDF}$ : 6208.6/9

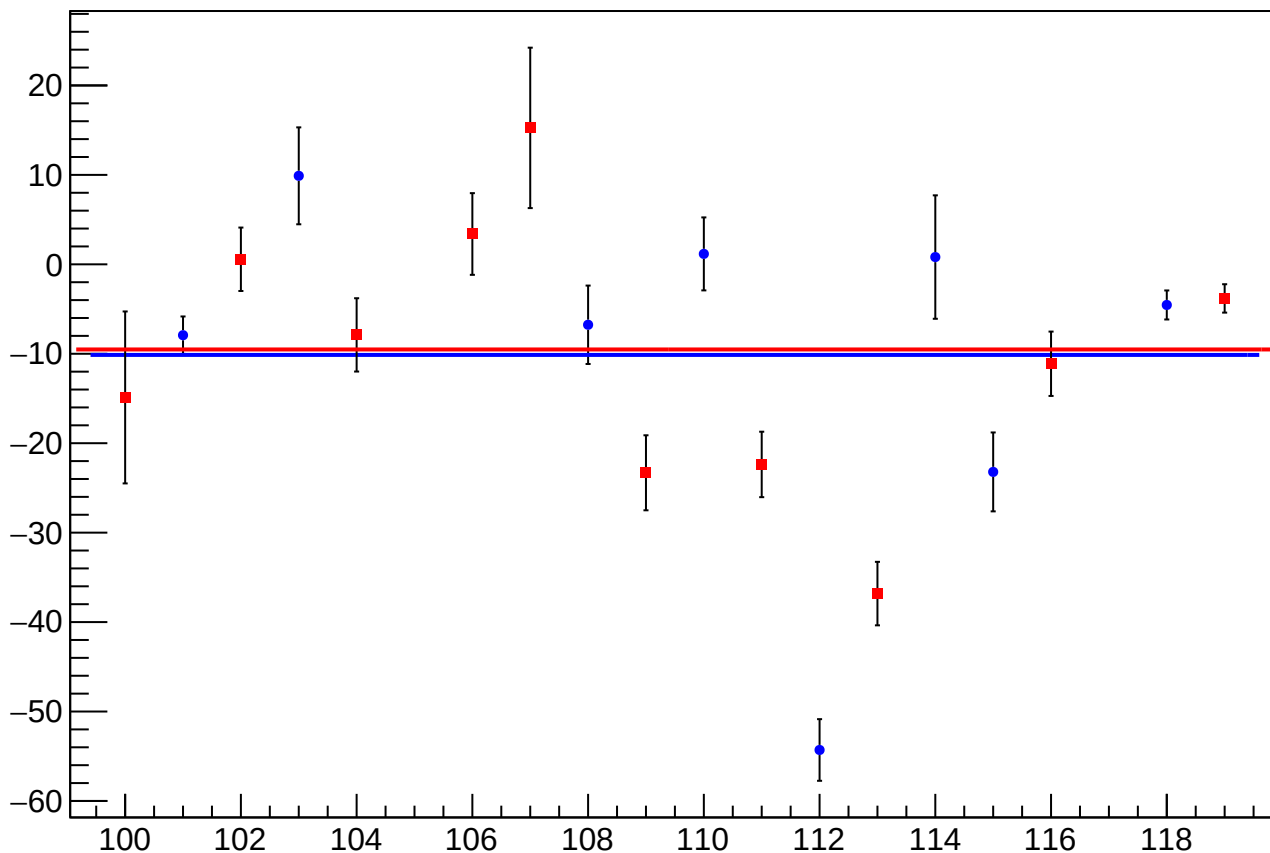
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.696+/-0.677  $\chi^2/\text{NDF}$ : 12648.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl1\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -10.128+/-1.048  $\chi^2/\text{NDF}$ : 210.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9.518+/-1.057  $\chi^2/\text{NDF}$ : 119.6/9

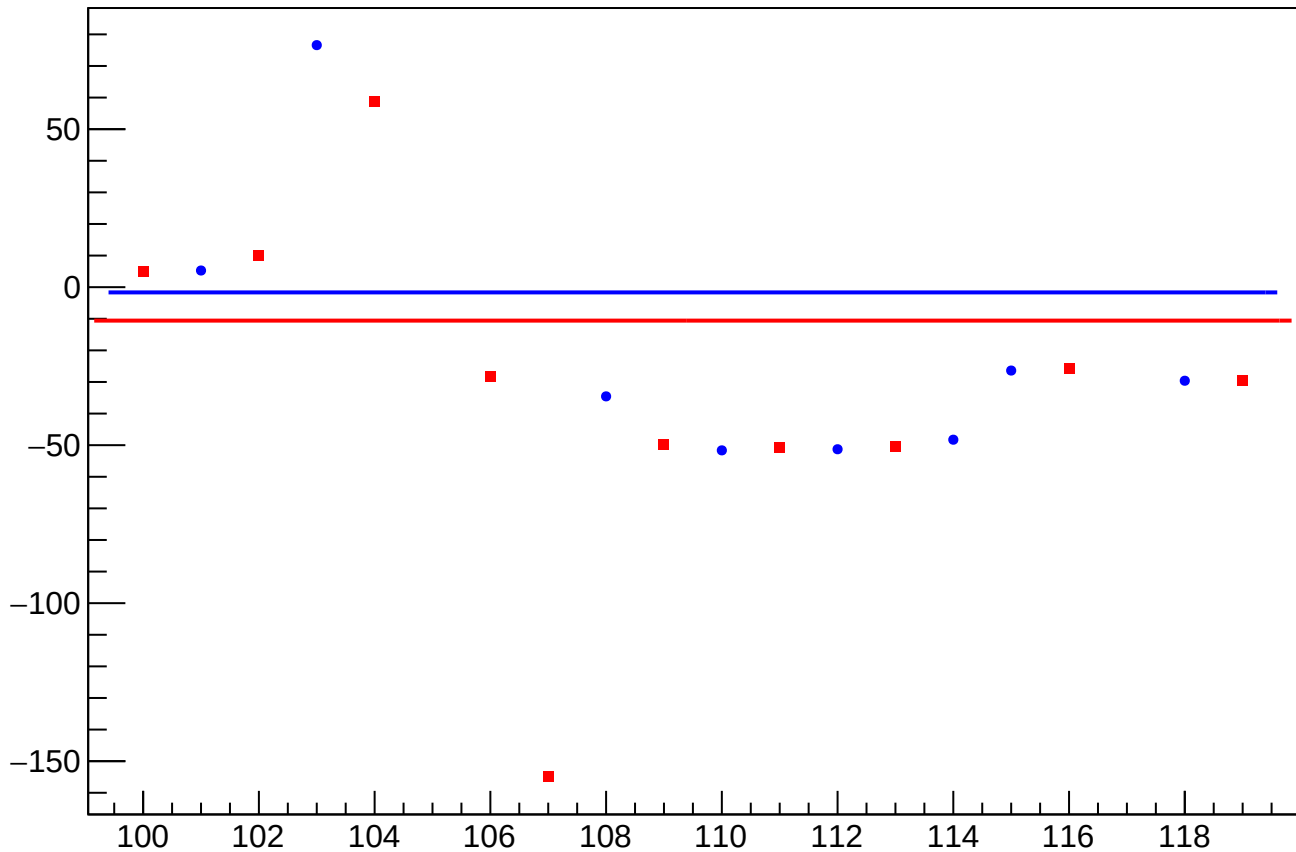
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.826+/-0.744  $\chi^2/\text{NDF}$ : 330.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl1\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -1.656+/-0.058  $\chi^2/\text{NDF}$ : 483089.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10.581+/-0.057  $\chi^2/\text{NDF}$ : 465797.5/9

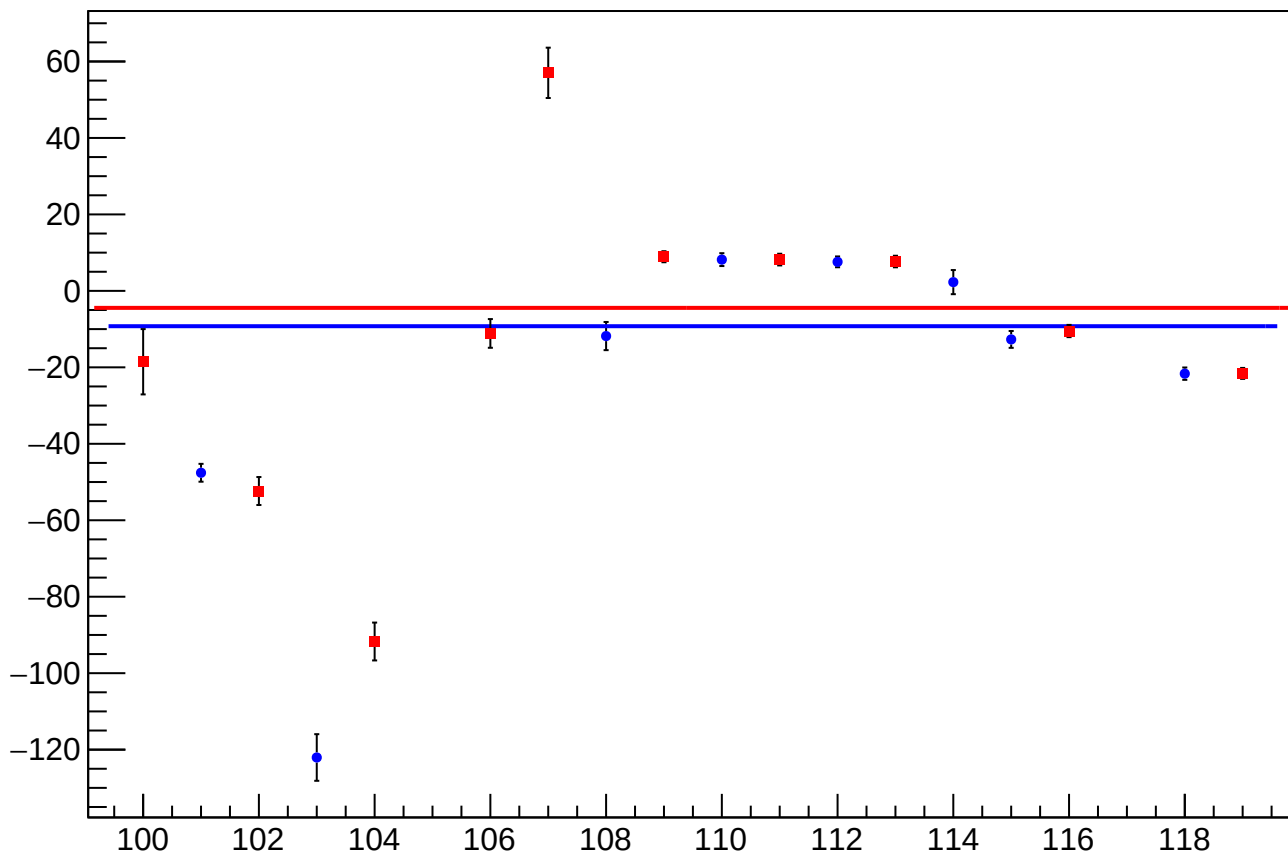
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.215+/-0.041  $\chi^2/\text{NDF}$ : 960863.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl1\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-9.242 \pm 0.740$   $\chi^2/\text{NDF}$ : 936.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.445 \pm 0.639$   $\chi^2/\text{NDF}$ : 951.8/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

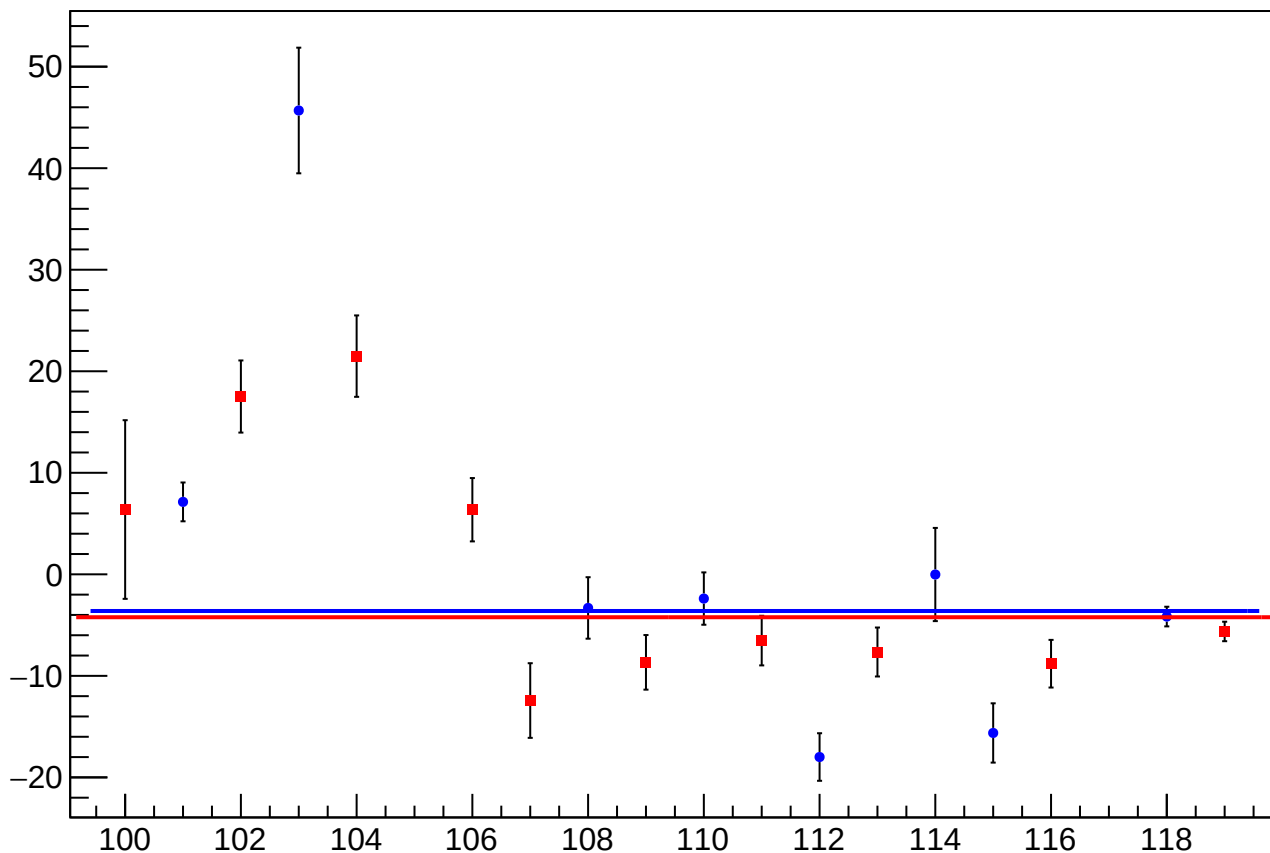
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-6.496 \pm 0.483$   $\chi^2/\text{NDF}$ : 1912.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_usl\_atl1\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -3.611 $\pm$ 0.712  $\chi^2/\text{NDF}$ : 150.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.226 $\pm$ 0.694  $\chi^2/\text{NDF}$ : 108.1/9

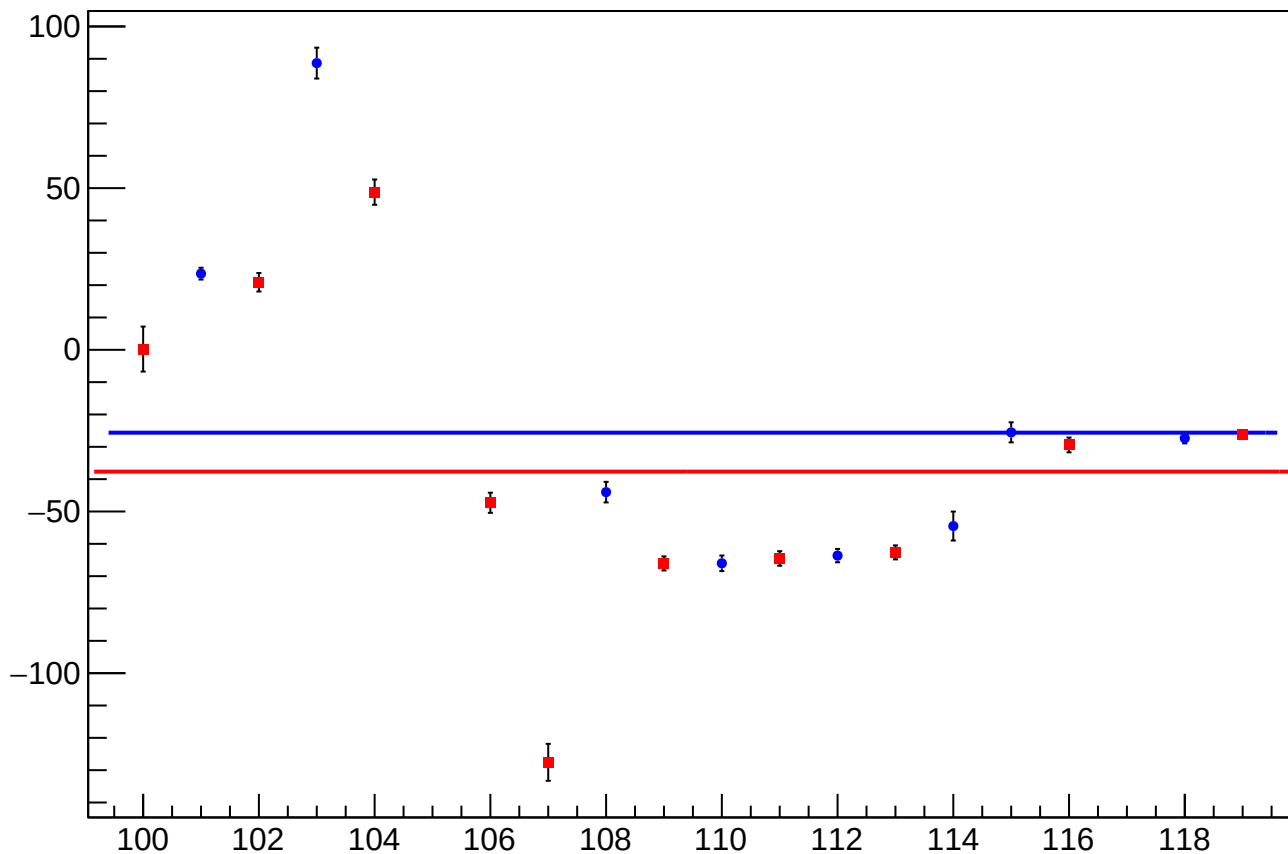
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.926 $\pm$ 0.497  $\chi^2/\text{NDF}$ : 259.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -25.625 $\pm$ 0.848  $\chi^2$ /NDF: 1991.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -37.678 $\pm$ 0.787  $\chi^2$ /NDF: 1716.2/9

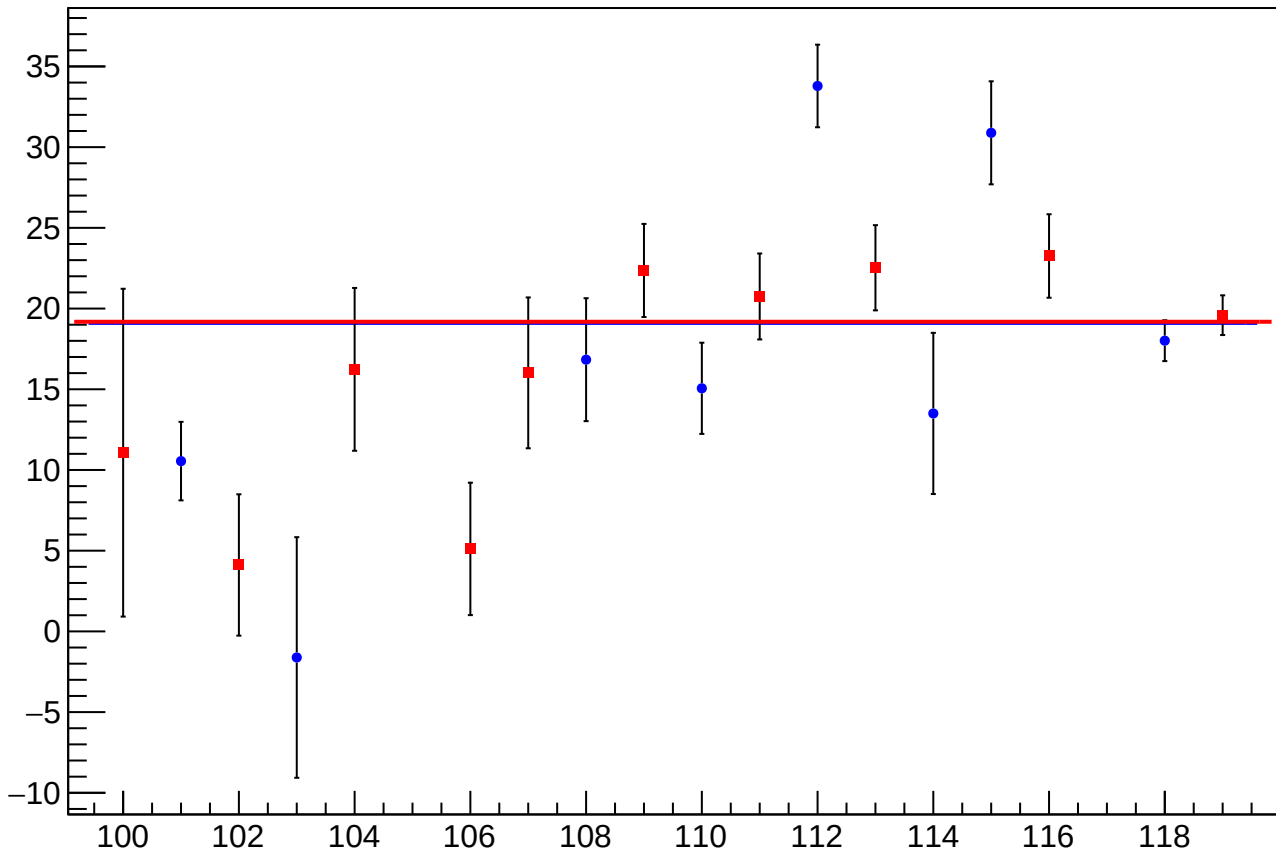
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -32.103 $\pm$ 0.577  $\chi^2$ /NDF: 3816.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 19.113 $\pm$ 0.878  $\chi^2$ /NDF: 71.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.182 $\pm$ 0.839  $\chi^2$ /NDF: 30.8/9

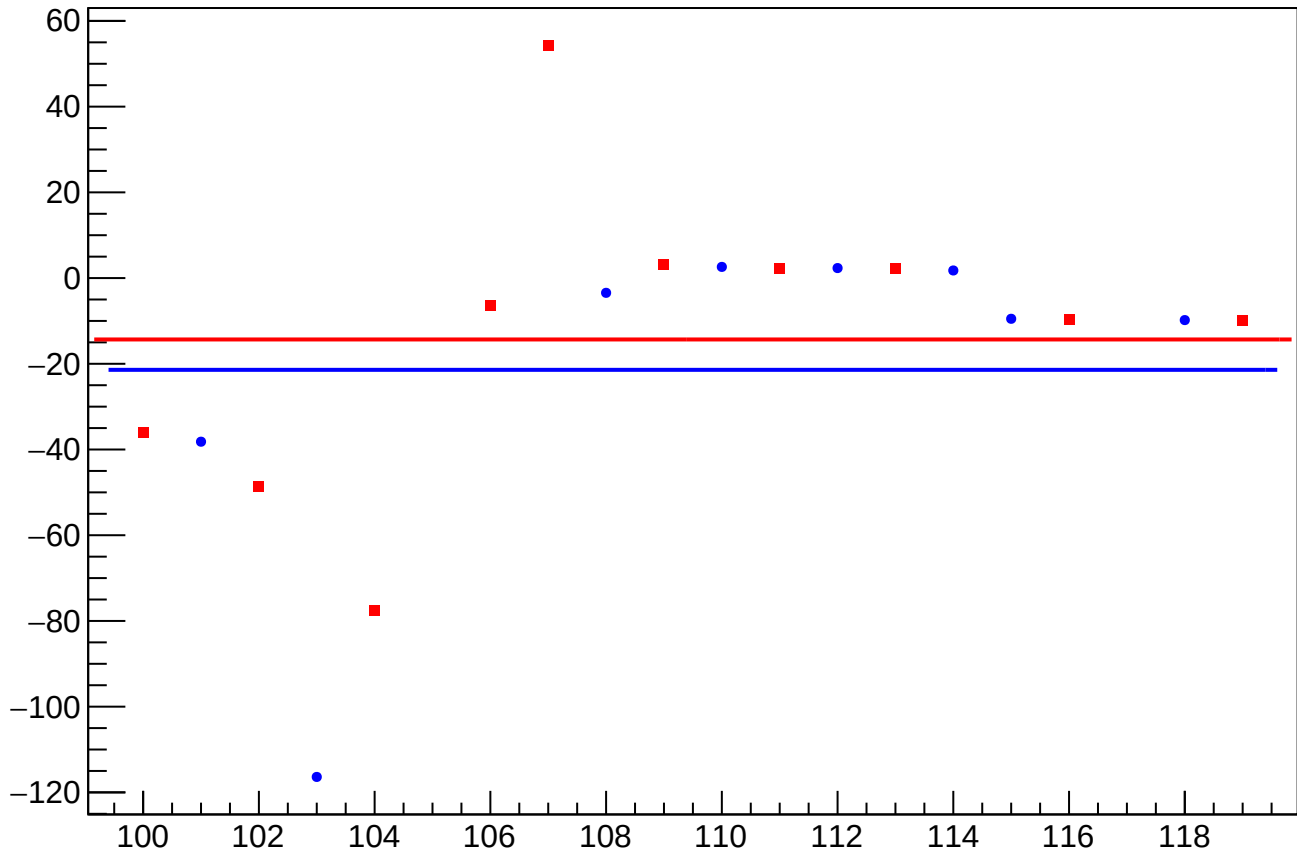
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 19.149 $\pm$ 0.607  $\chi^2$ /NDF: 101.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl1\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -21.411 $\pm$ 0.056  $\chi^2$ /NDF: 314113.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -14.324 $\pm$ 0.051  $\chi^2$ /NDF: 309283.2/9

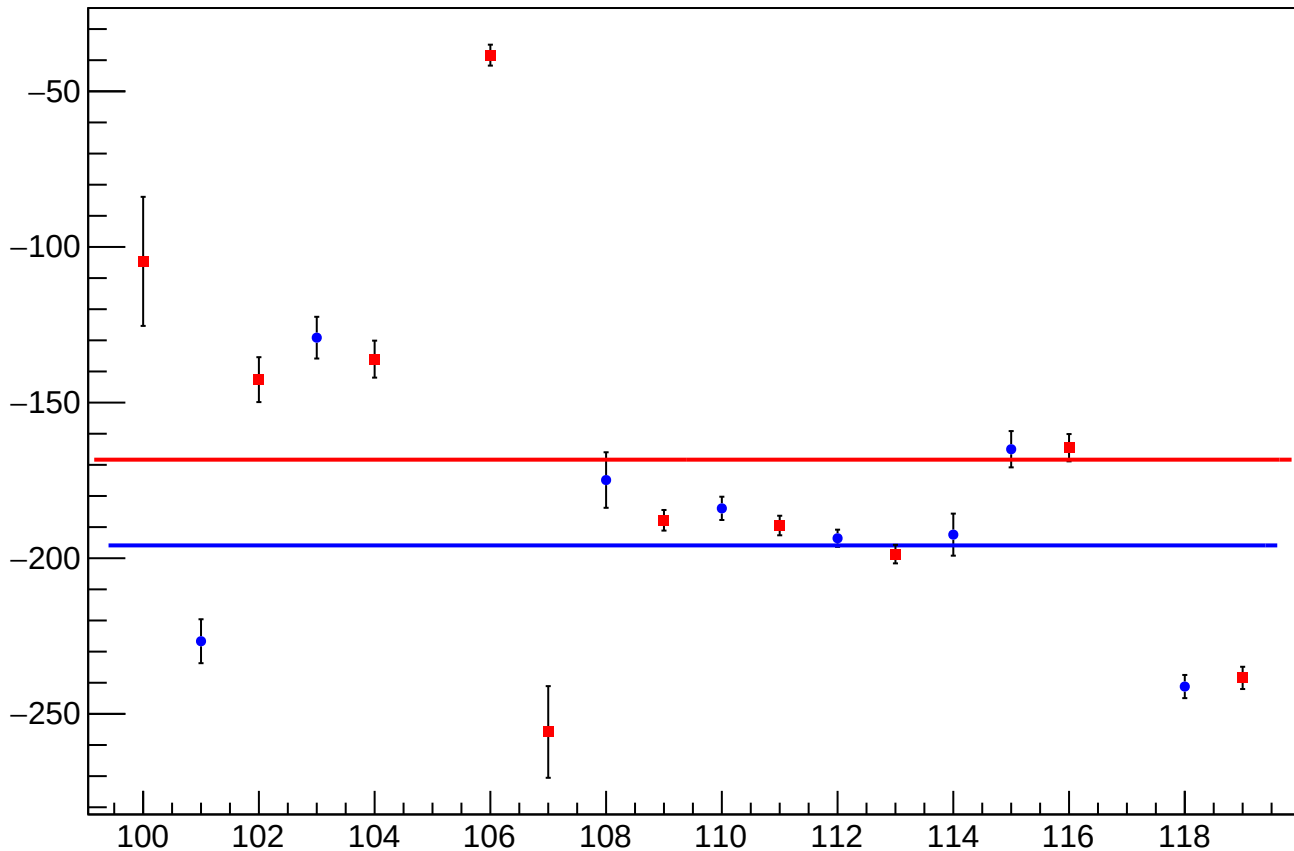
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.587 $\pm$ 0.038  $\chi^2$ /NDF: 632116.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl2\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-195.879 \pm 1.619$   $\chi^2/\text{NDF}$ : 311.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-168.335 \pm 1.314$   $\chi^2/\text{NDF}$ : 2149.0/9

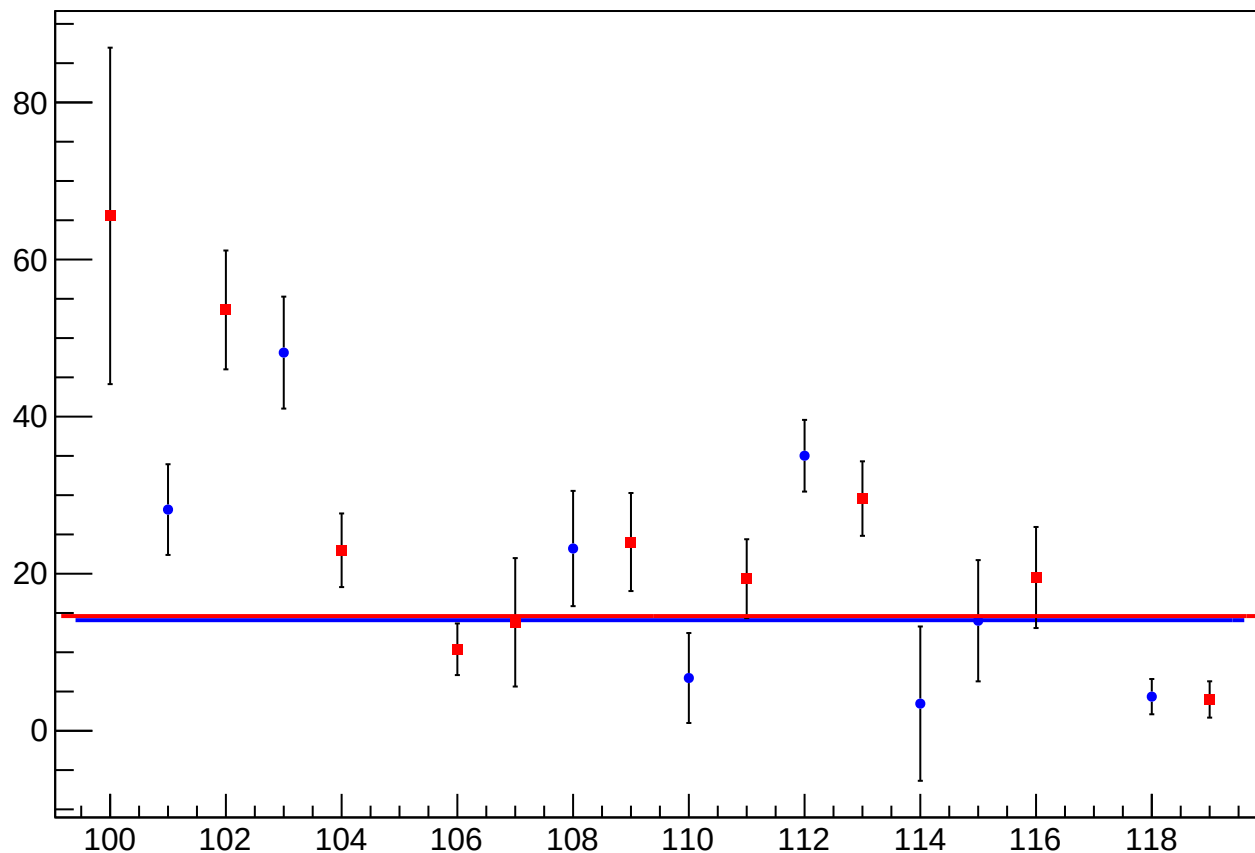
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-179.276 \pm 1.021$   $\chi^2/\text{NDF}$ : 2634.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 14.084 $\pm$ 1.639  $\chi^2$ /NDF: 73.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.606 $\pm$ 1.423  $\chi^2$ /NDF: 71.9/9

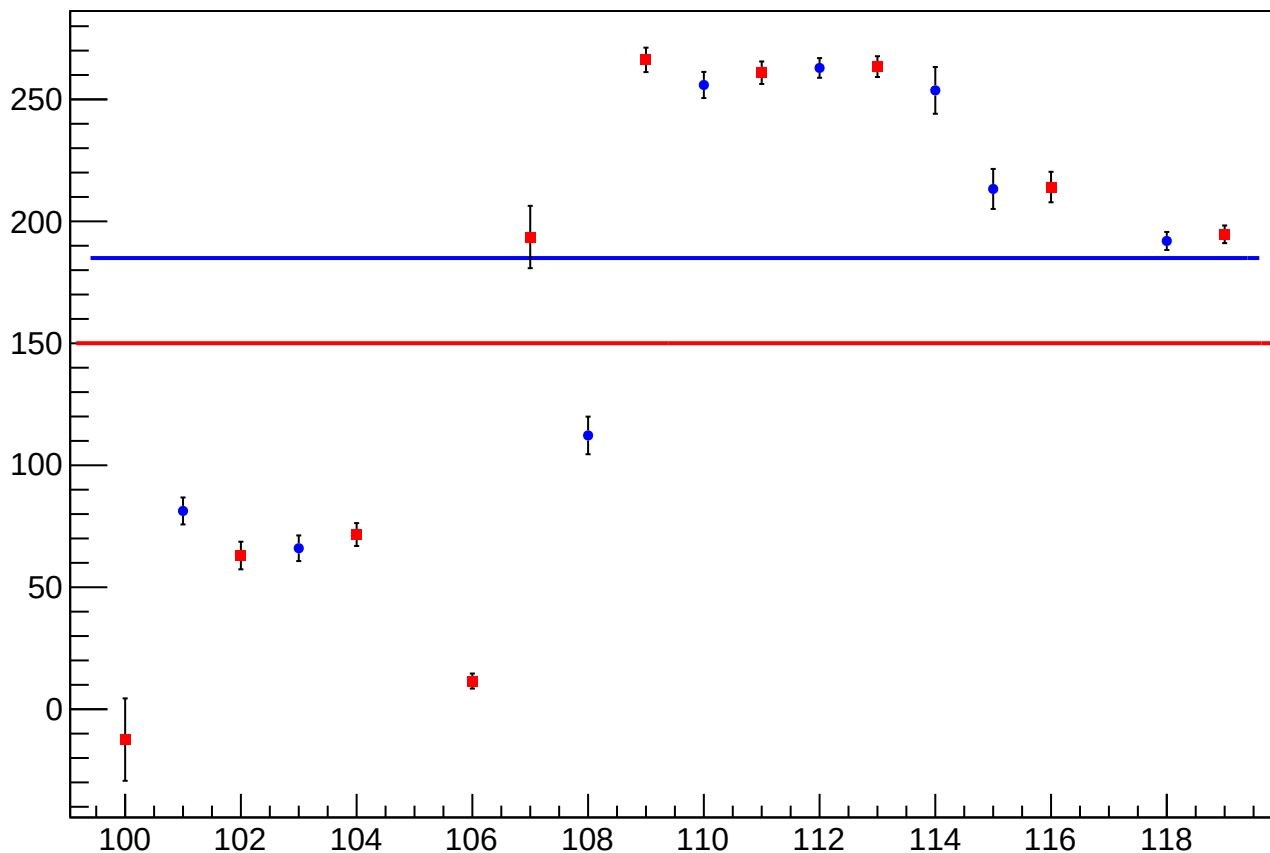
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 14.382 $\pm$ 1.075  $\chi^2$ /NDF: 144.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usl\_atl2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 184.960+/-1.889  $\chi^2/\text{NDF}$ : 1567.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 150.049+/-1.516  $\chi^2/\text{NDF}$ : 4713.0/9

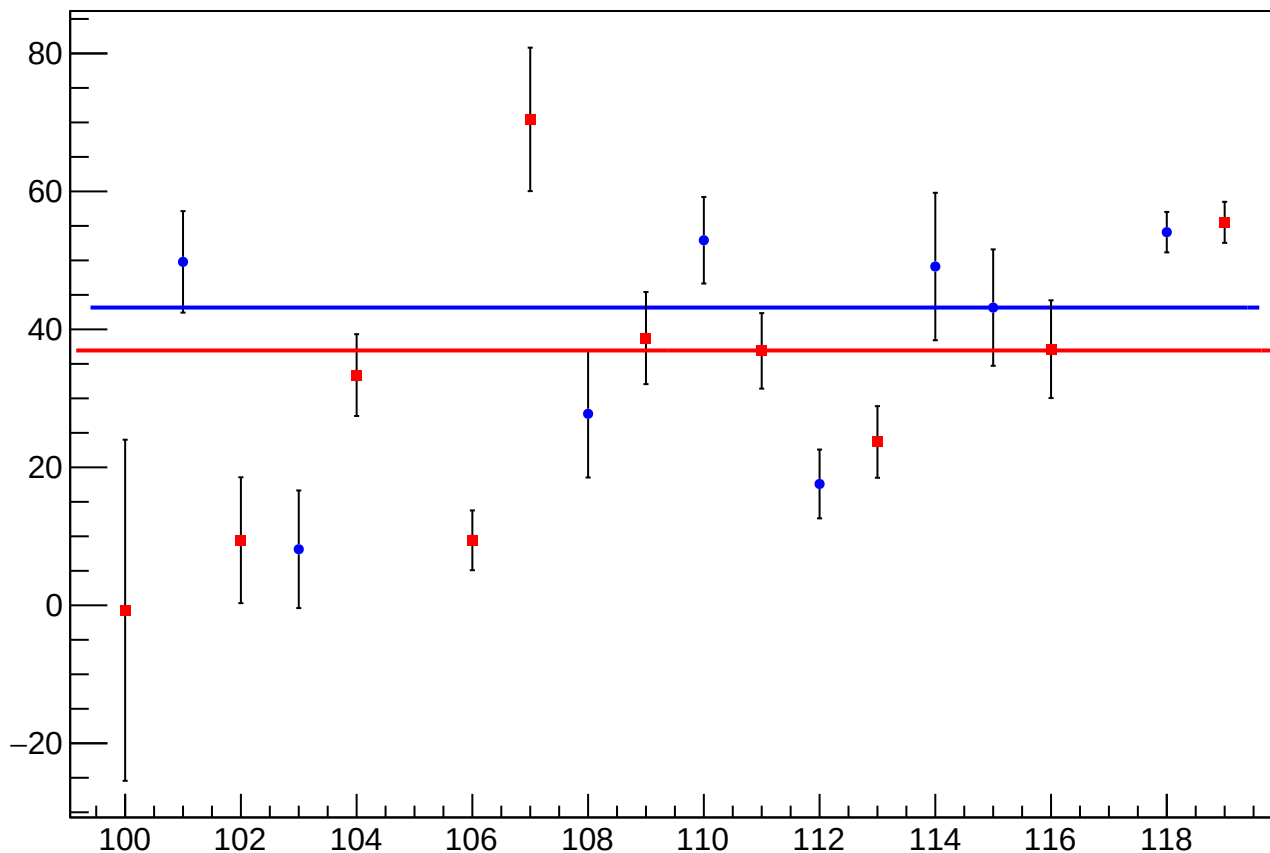
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 163.730+/-1.182  $\chi^2/\text{NDF}$ : 6488.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 43.164 $\pm$ 2.006  $\chi^2$ /NDF: 63.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.942 $\pm$ 1.739  $\chi^2$ /NDF: 108.1/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

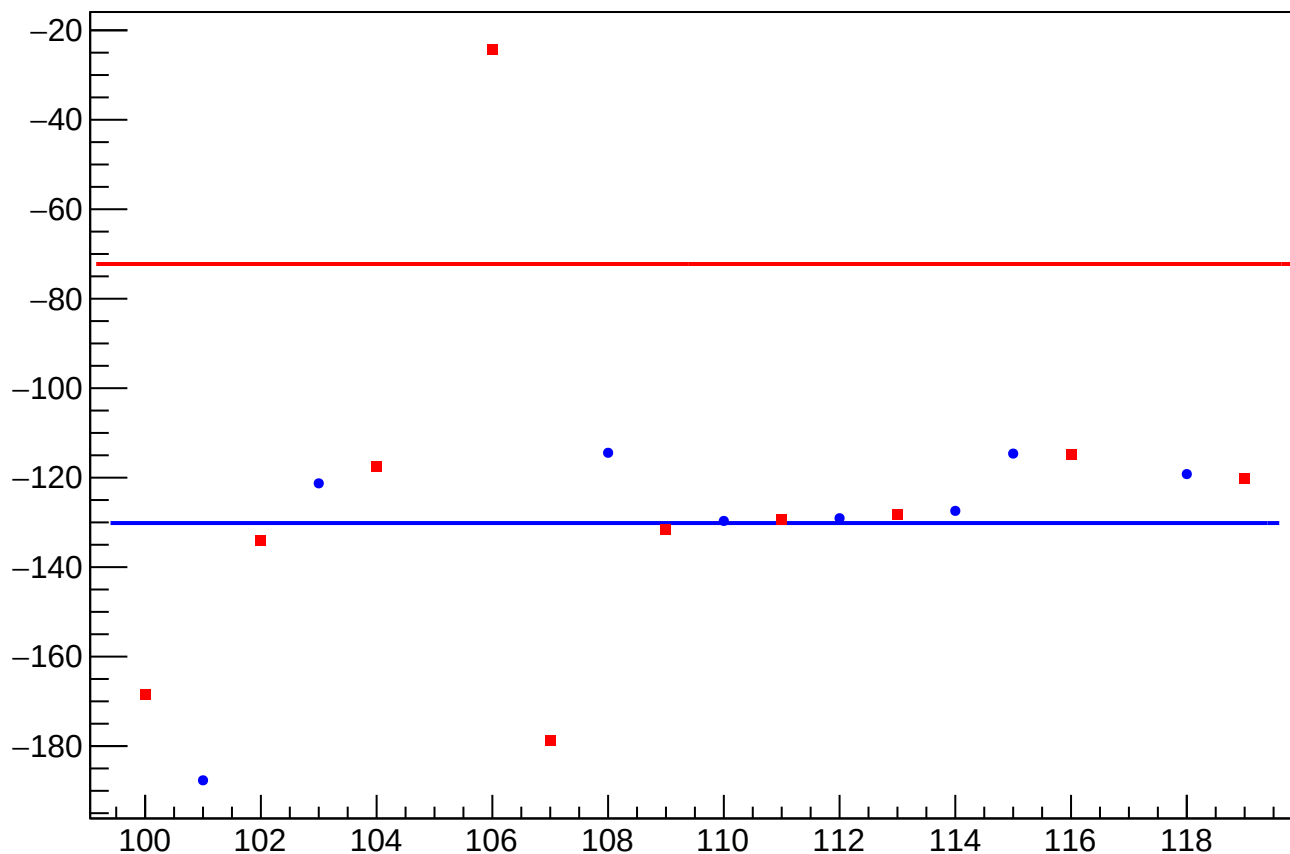
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 39.612 $\pm$ 1.314  $\chi^2$ /NDF: 177.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_usl\_atl2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -130.146+/-0.119  $\chi^2/\text{NDF}$ : 36536.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -72.239+/-0.075  $\chi^2/\text{NDF}$ : 495940.2/9

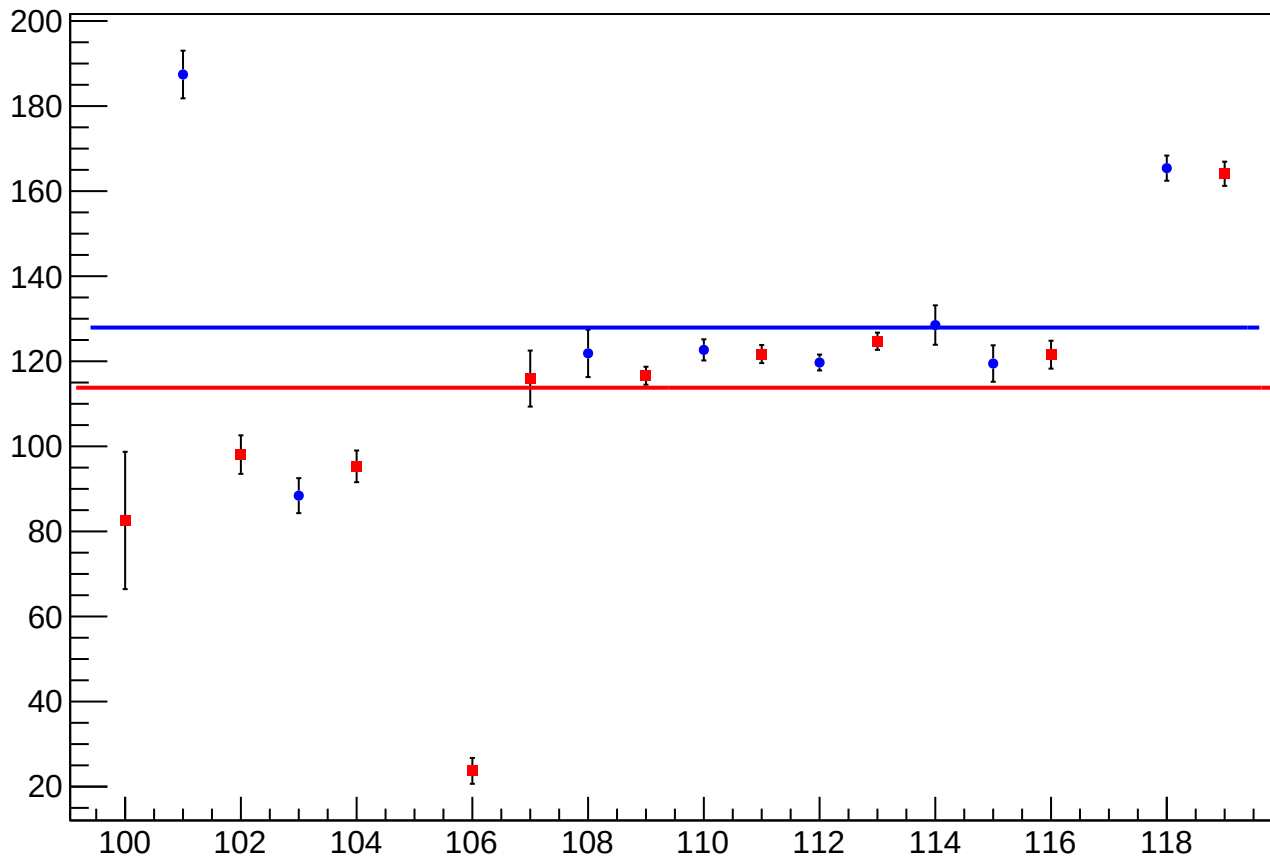
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -88.774+/-0.063  $\chi^2/\text{NDF}$ : 702919.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 127.930 $\pm$ 1.126  $\chi^2$ /NDF: 394.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 113.786 $\pm$ 0.927  $\chi^2$ /NDF: 1284.7/9

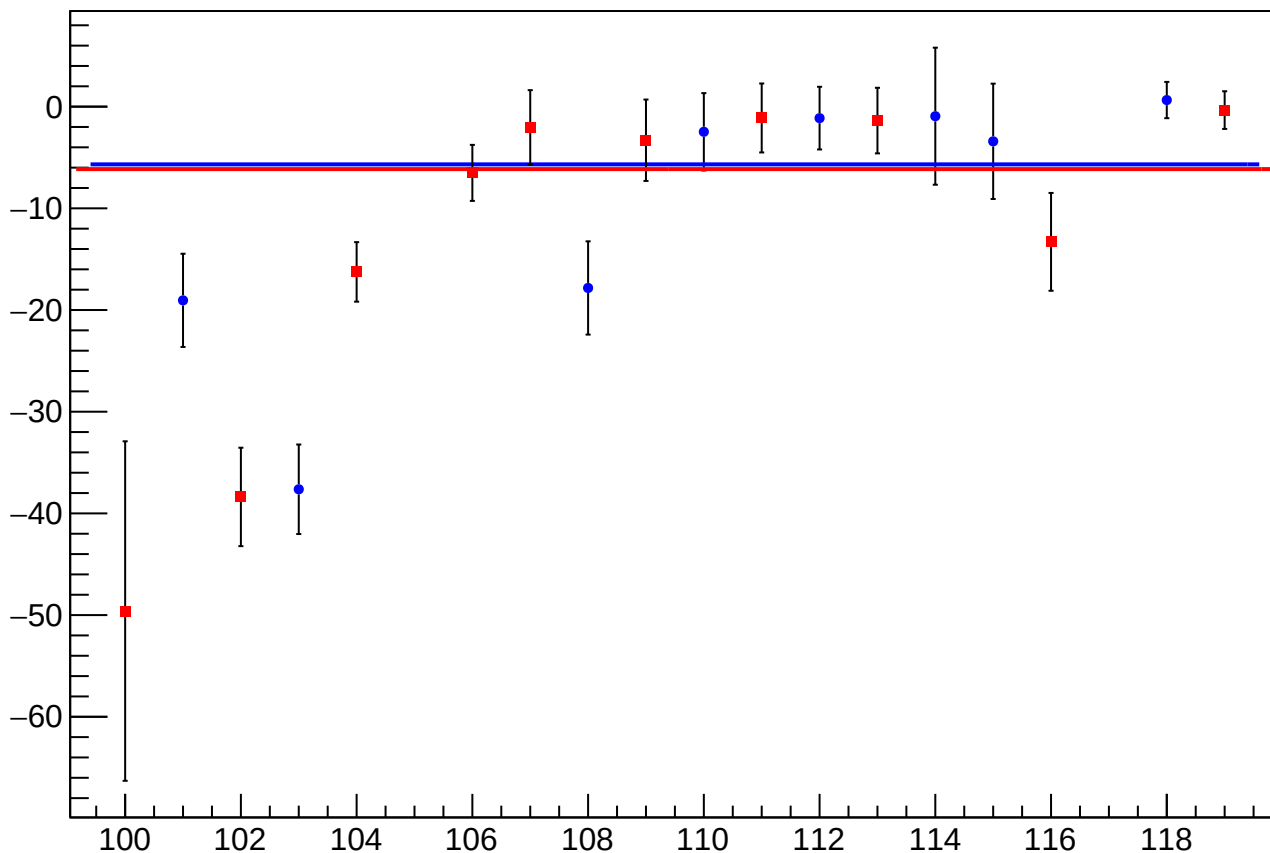
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 119.502 $\pm$ 0.716  $\chi^2$ /NDF: 1773.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -5.677 $\pm$ 1.205  $\chi^2$ /NDF: 84.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -6.142 $\pm$ 1.026  $\chi^2$ /NDF: 81.3/9

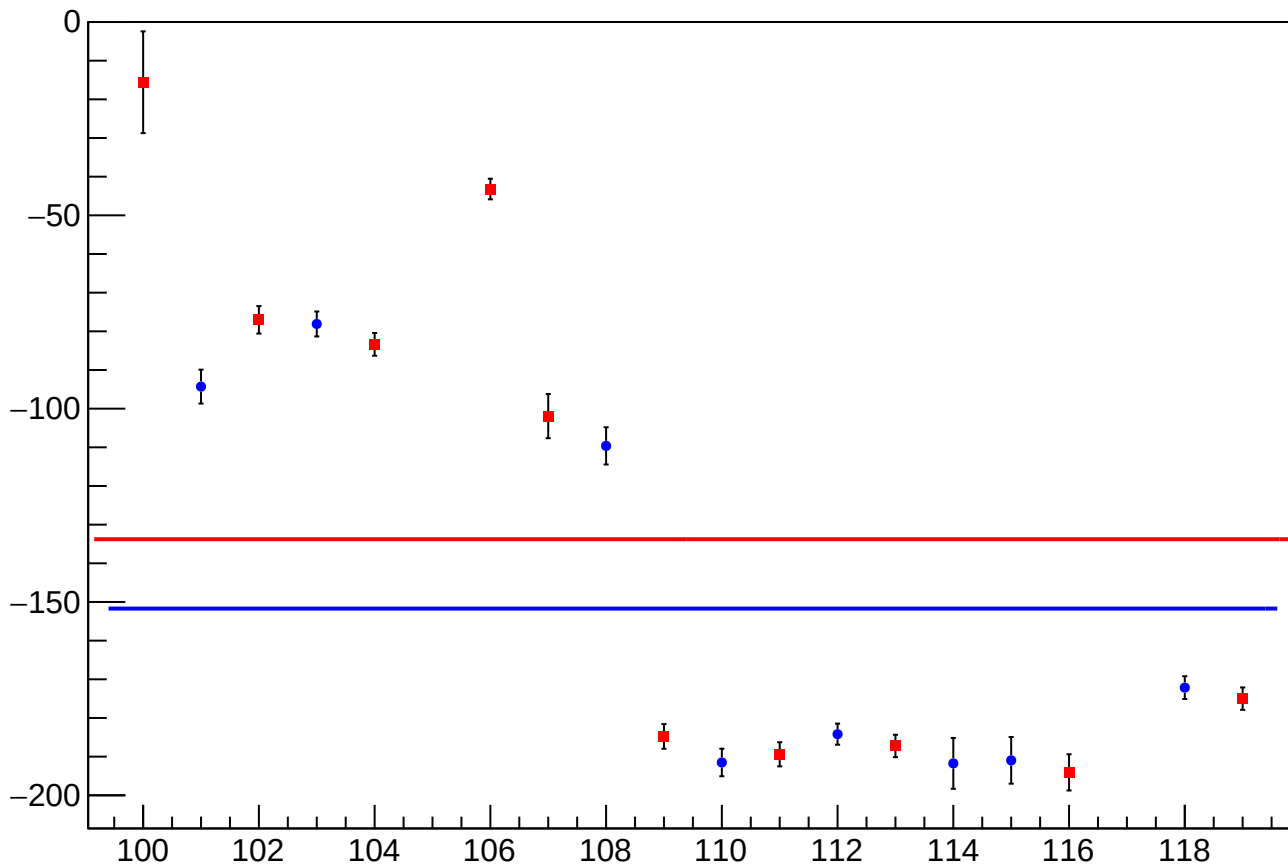
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -5.947 $\pm$ 0.781  $\chi^2$ /NDF: 165.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -151.702+/-1.324  $\chi^2/\text{NDF}$ : 1161.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -133.763+/-1.080  $\chi^2/\text{NDF}$ : 3099.0/9

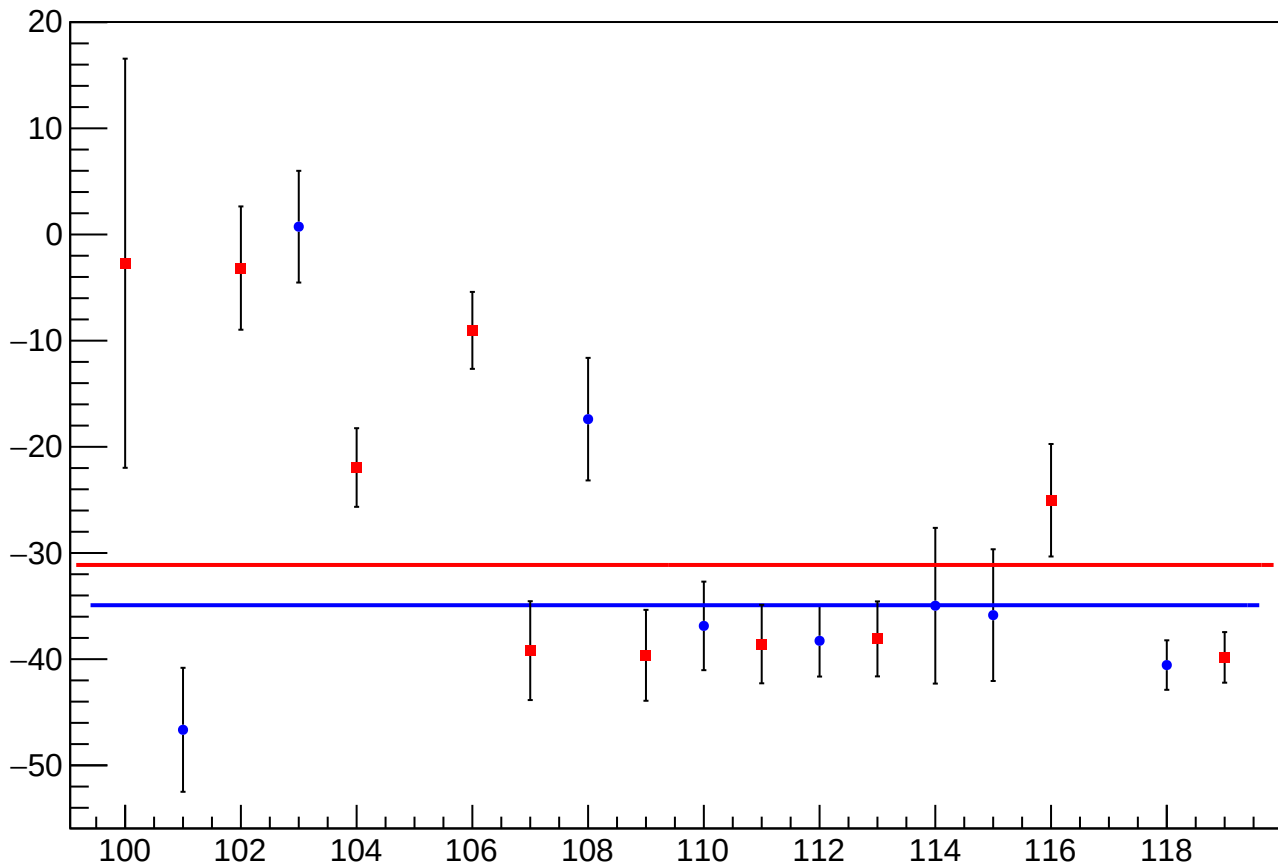
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -140.929+/-0.837  $\chi^2/\text{NDF}$ : 4371.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-34.918 \pm 1.459$   $\chi^2/\text{NDF}$ : 66.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-31.127 \pm 1.243$   $\chi^2/\text{NDF}$ : 98.2/9

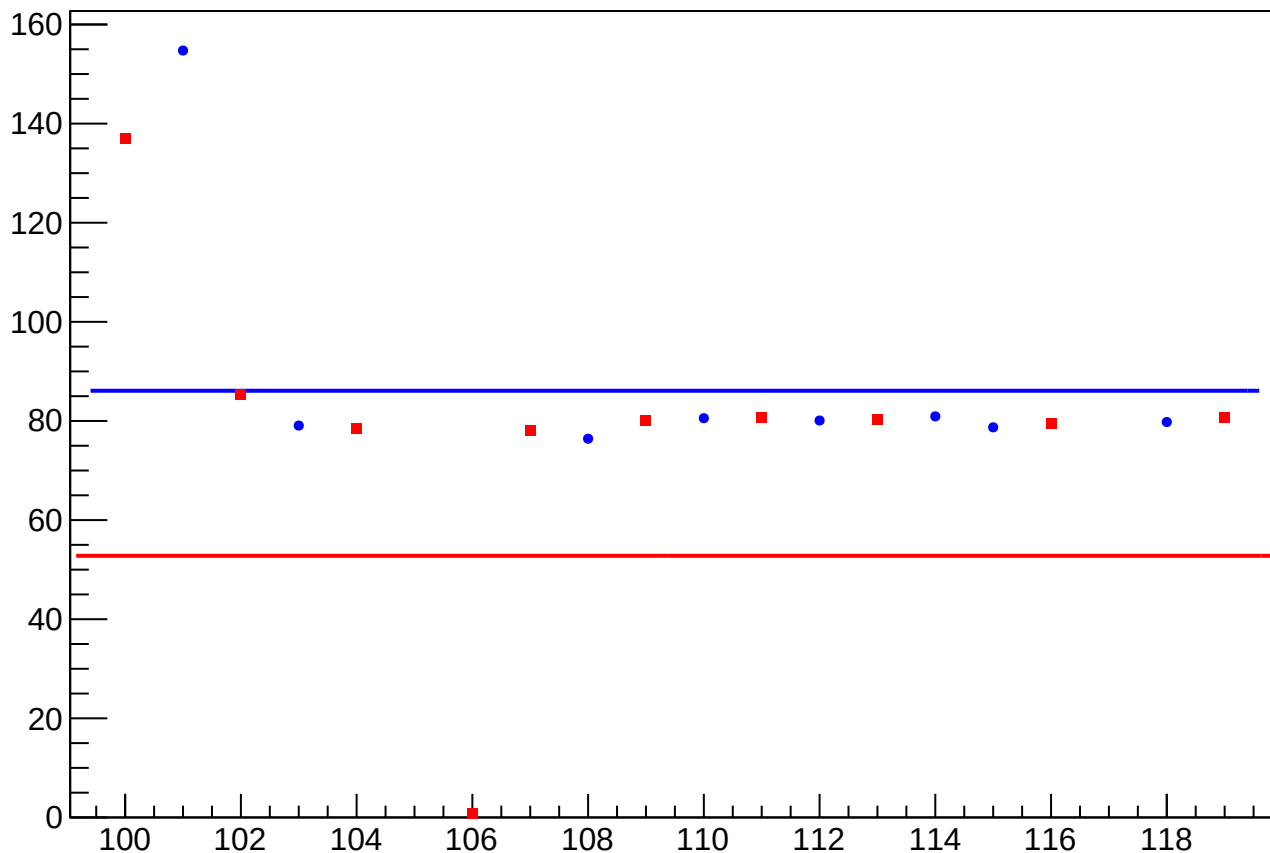
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-32.721 \pm 0.946$   $\chi^2/\text{NDF}$ : 168.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 86.098+/-0.080  $\chi^2/\text{NDF}$ : 76042.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.799+/-0.057  $\chi^2/\text{NDF}$ : 458260.7/9

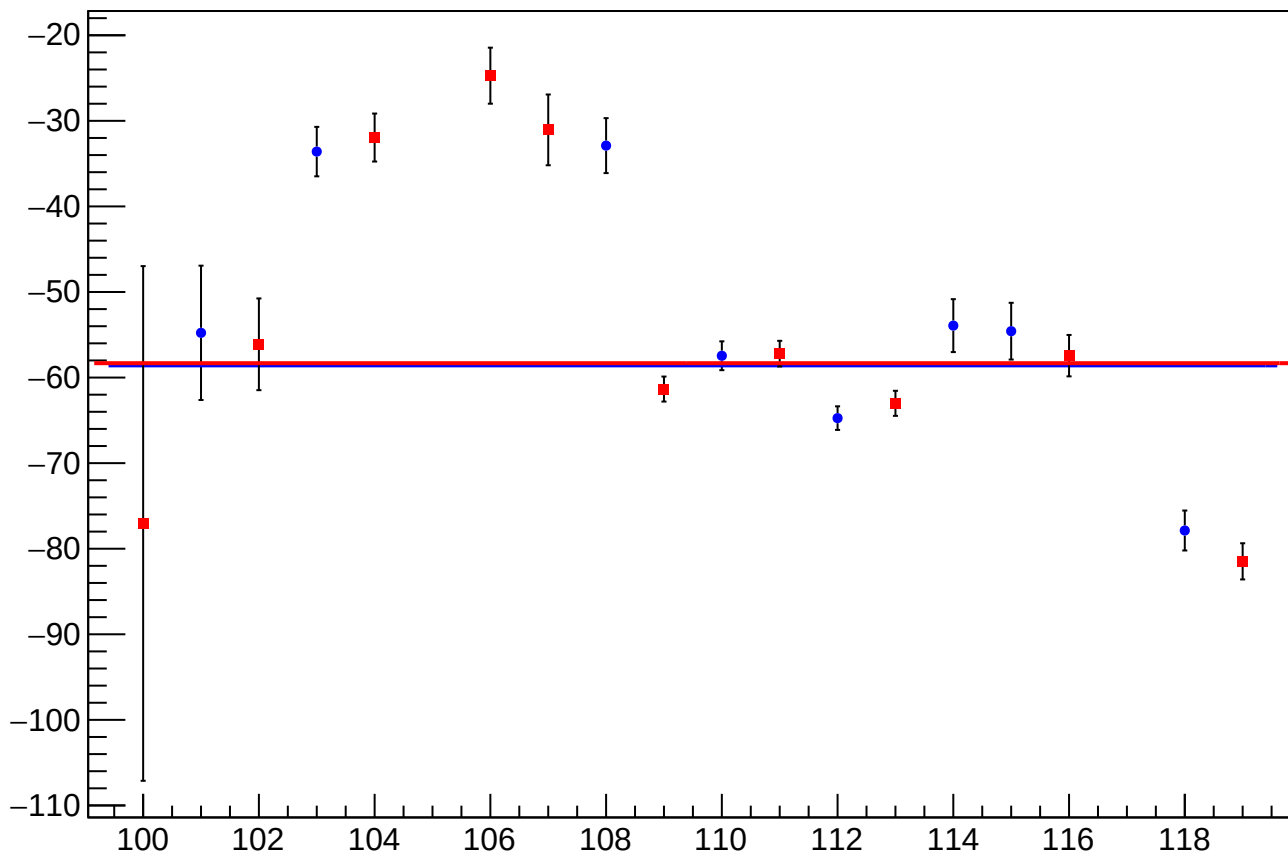
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.103+/-0.047  $\chi^2/\text{NDF}$ : 648314.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usr\_atr1\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -58.574 $\pm$ 0.819  $\chi^2$ /NDF: 231.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -58.319 $\pm$ 0.692  $\chi^2$ /NDF: 373.0/9

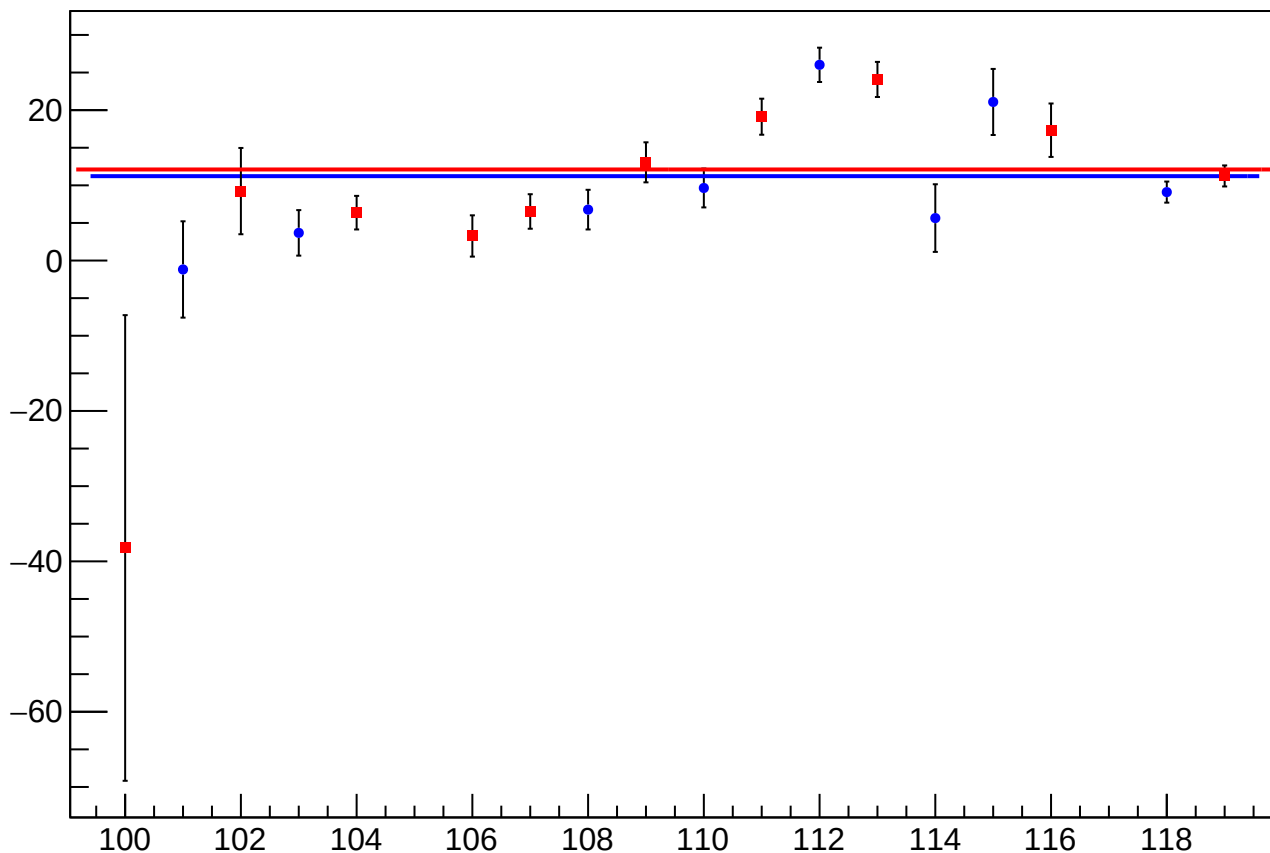
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -58.426 $\pm$ 0.529  $\chi^2$ /NDF: 604.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr1\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 11.221 $\pm$ 0.902  $\chi^2$ /NDF: 64.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 12.111 $\pm$ 0.780  $\chi^2$ /NDF: 63.3/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

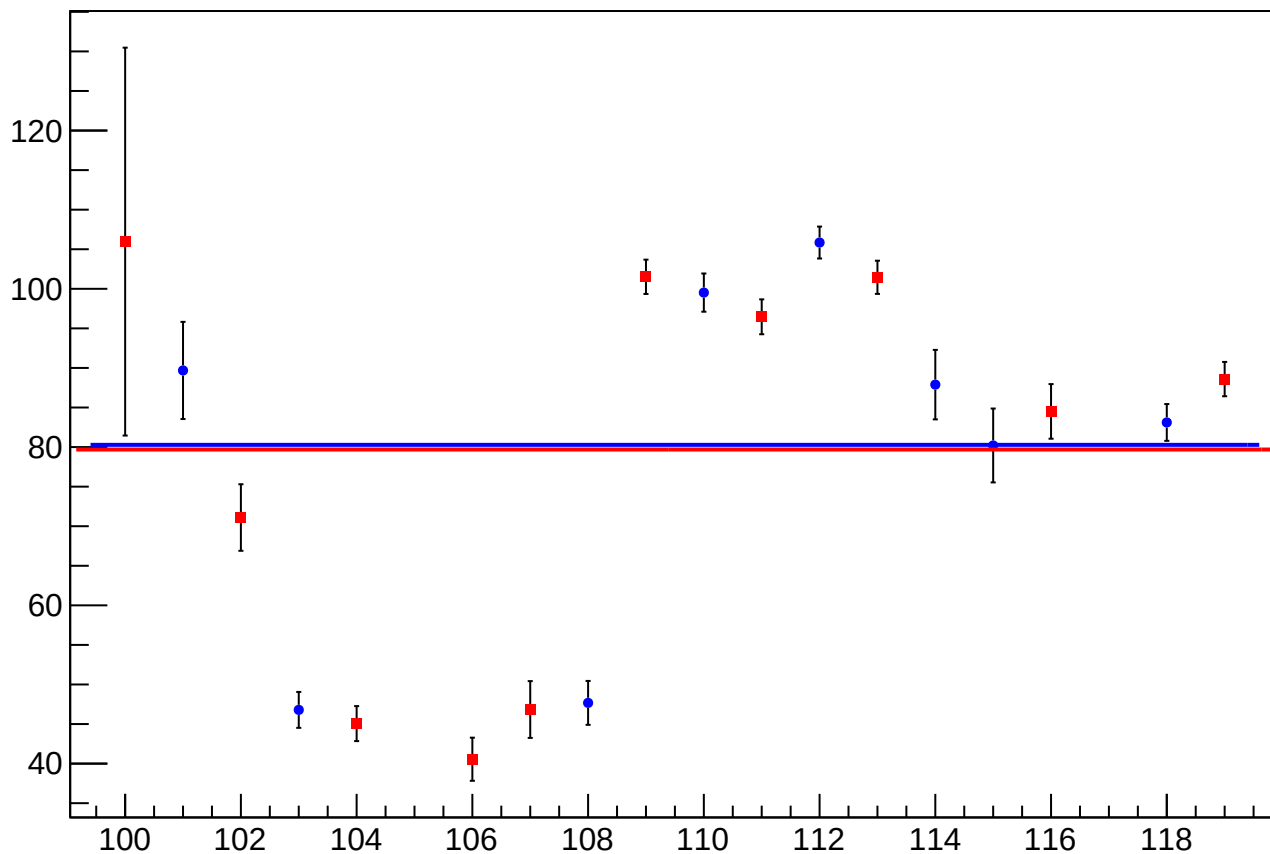
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.730 $\pm$ 0.590  $\chi^2$ /NDF: 128.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_usr\_atr1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 80.283+/-0.975  $\chi^2/\text{NDF}$ : 587.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 79.691+/-0.840  $\chi^2/\text{NDF}$ : 826.4/9

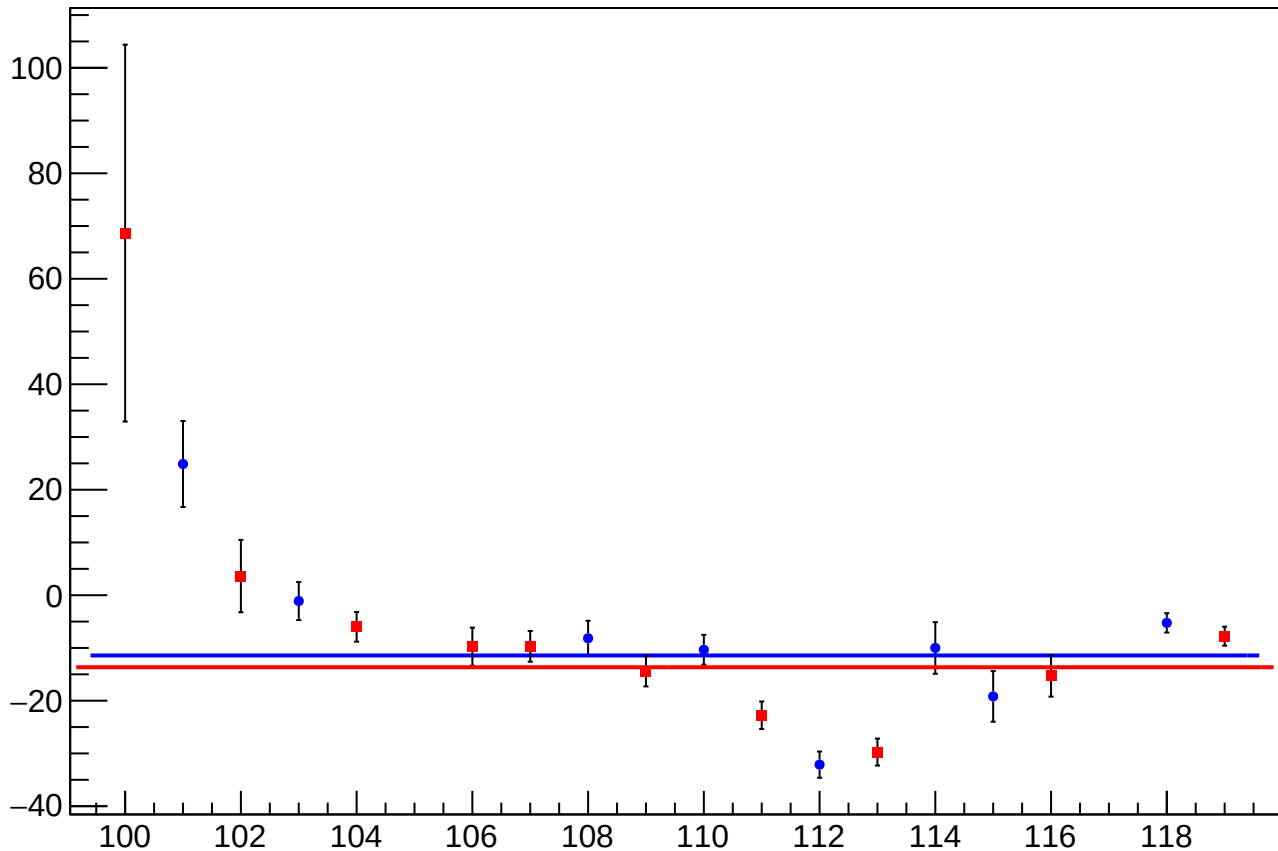
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 79.943+/-0.636  $\chi^2/\text{NDF}$ : 1413.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usr\_atr1\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-11.422 \pm 1.084$   $\chi^2/\text{NDF}$ : 112.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-13.658 \pm 0.937$   $\chi^2/\text{NDF}$ : 84.9/9

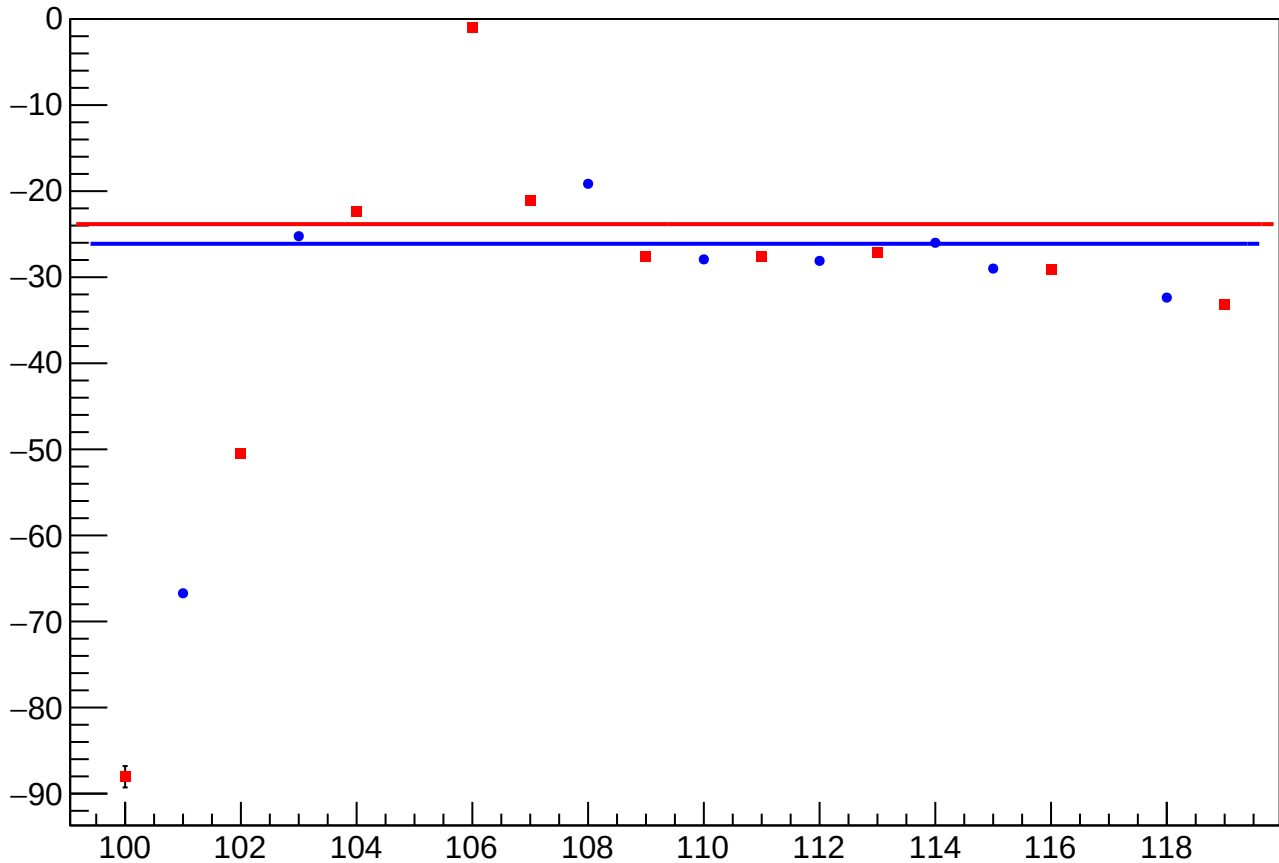
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-12.702 \pm 0.709$   $\chi^2/\text{NDF}$ : 199.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usr\_atr1\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -26.115+/-0.057  $\chi^2/\text{NDF}$ : 17877.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -23.831+/-0.050  $\chi^2/\text{NDF}$ : 62791.9/9

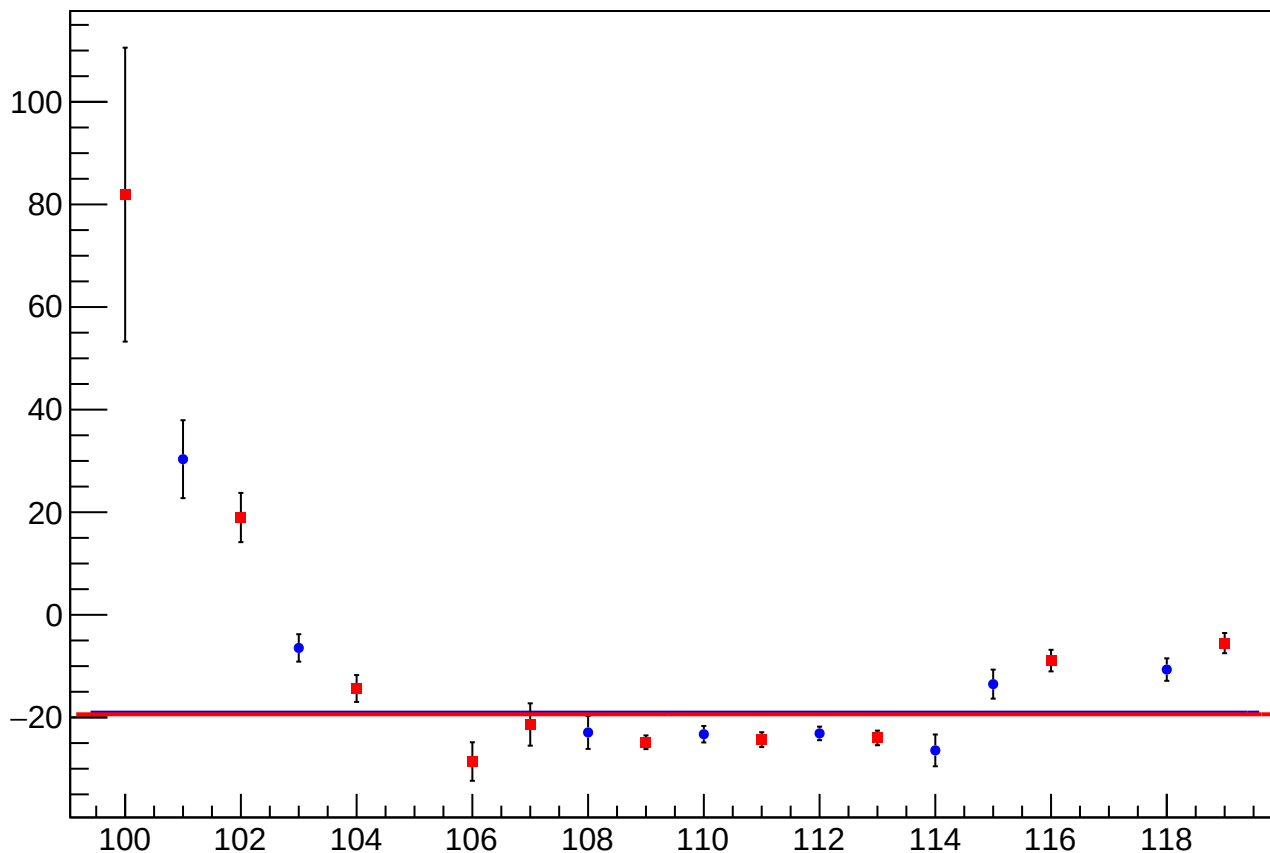
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -24.833+/-0.038  $\chi^2/\text{NDF}$ : 81576.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr1\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-19.070 \pm 0.778$   $\chi^2/\text{NDF}: 106.5/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-19.391 \pm 0.654$   $\chi^2/\text{NDF}: 199.5/9$

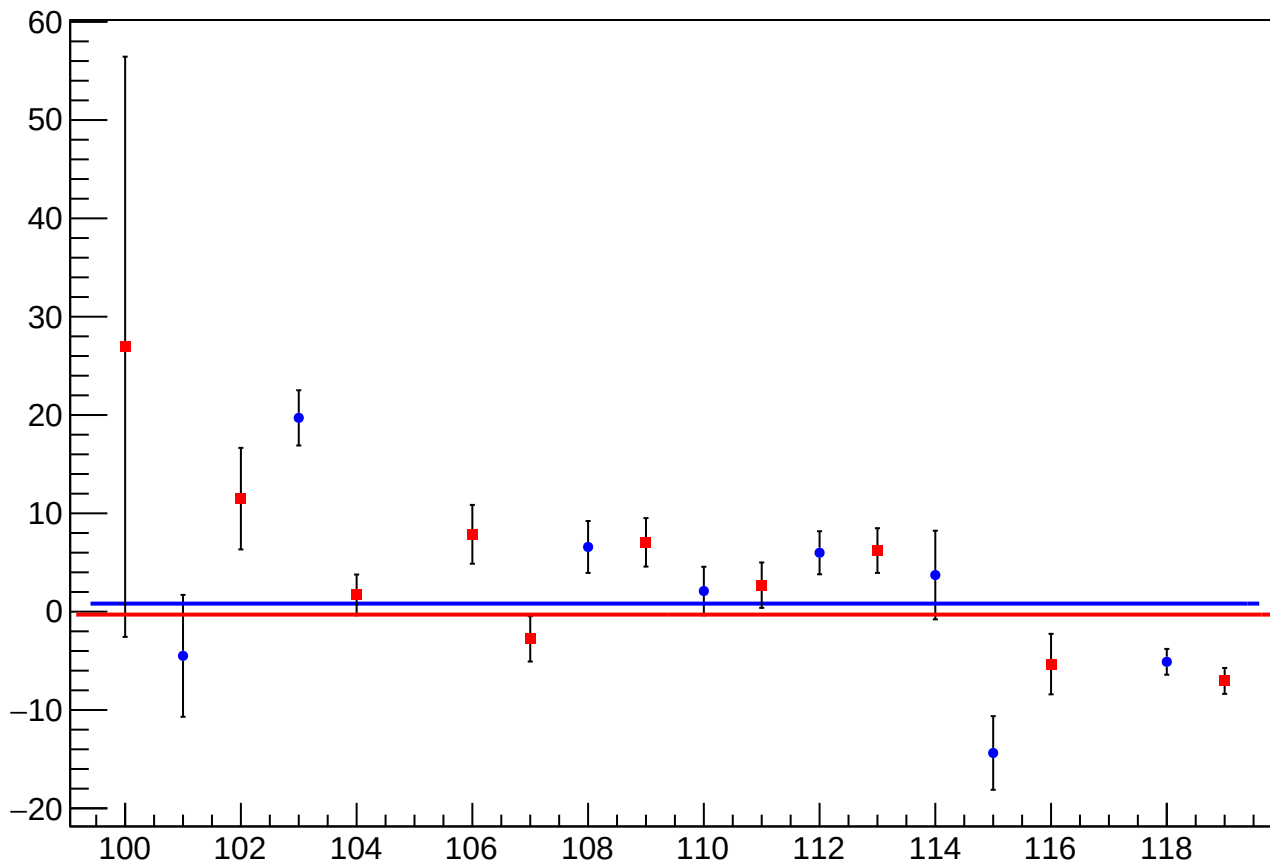
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-19.258 \pm 0.501$   $\chi^2/\text{NDF}: 306.1/17$

- 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:  $0.820 \pm 0.854$   $\chi^2/\text{NDF}: 93.8/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.298 \pm 0.746$   $\chi^2/\text{NDF}: 63.3/9$

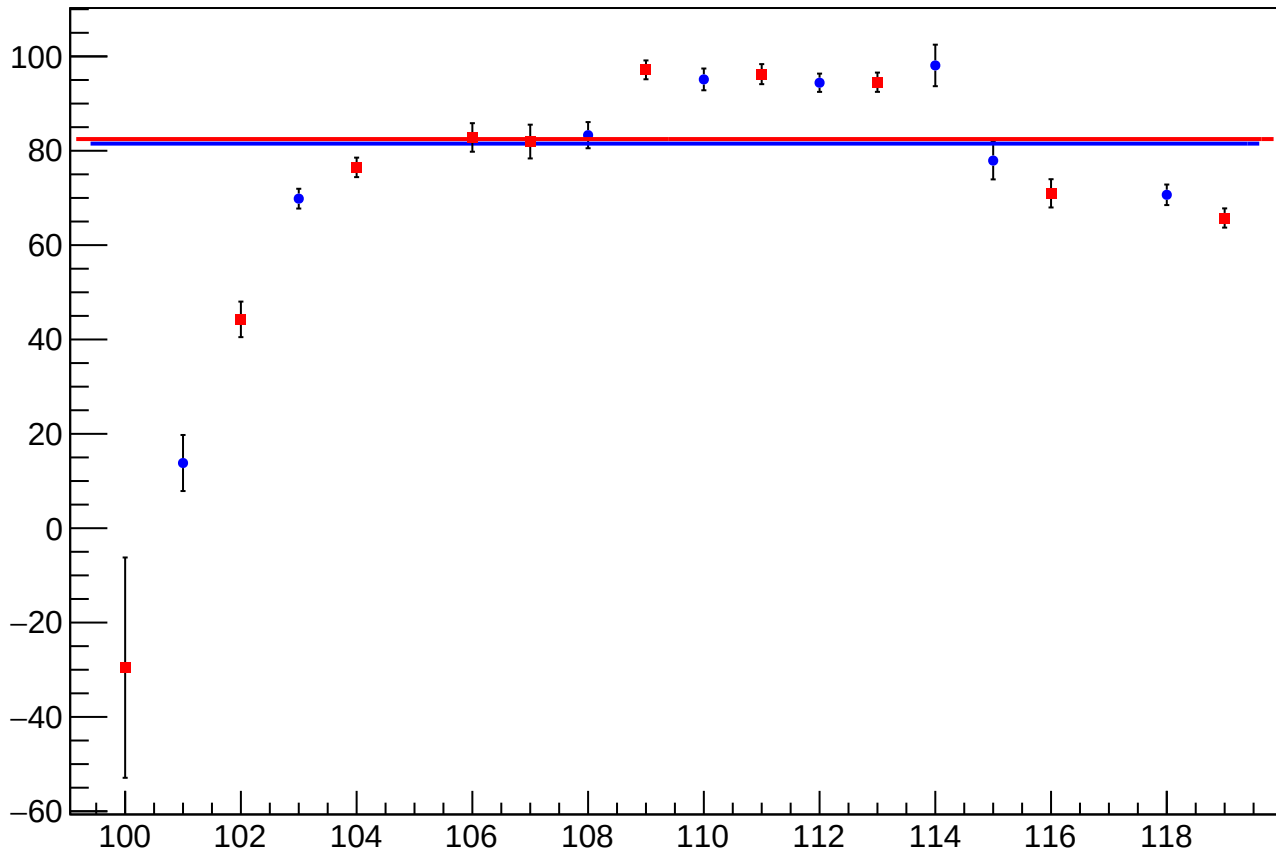
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $0.185 \pm 0.562$   $\chi^2/\text{NDF}: 158.0/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_usr\_atr1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 81.517 $\pm$ 0.926  $\chi^2$ /NDF: 280.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 82.479 $\pm$ 0.801  $\chi^2$ /NDF: 347.5/9

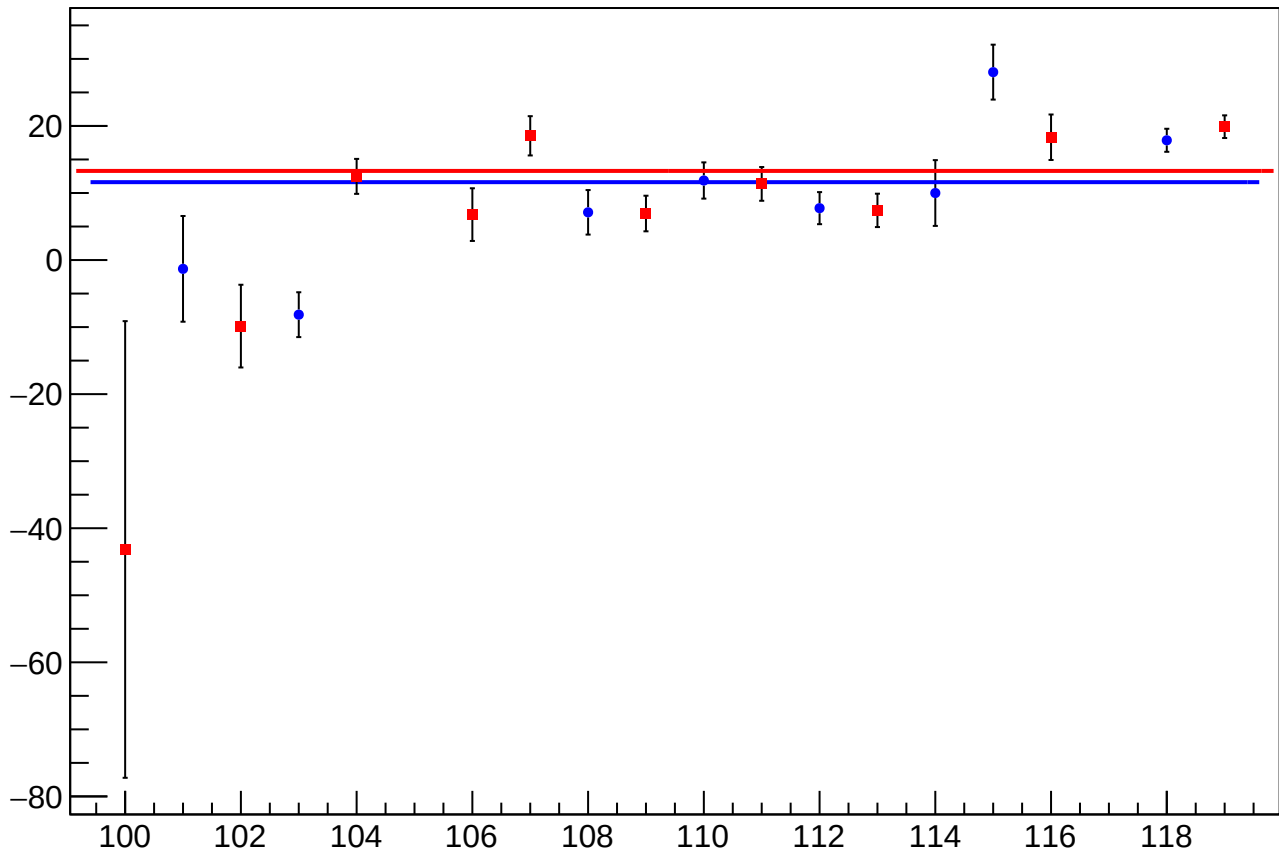
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 82.068 $\pm$ 0.606  $\chi^2$ /NDF: 628.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_atr1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 11.617 $\pm$ 1.027  $\chi^2$ /NDF: 71.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13.293 $\pm$ 0.893  $\chi^2$ /NDF: 52.2/9

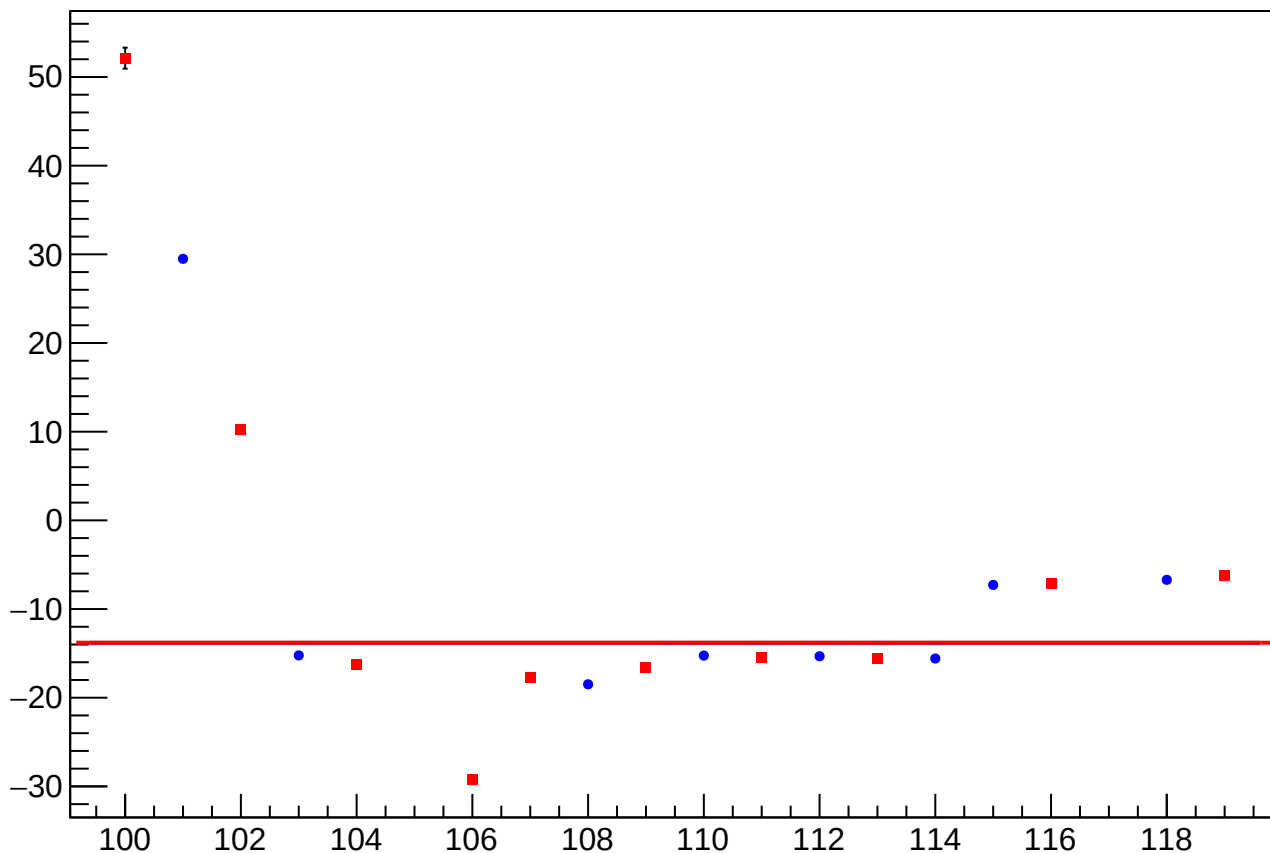
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12.571 $\pm$ 0.674  $\chi^2$ /NDF: 125.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr1\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -13.818+/-0.054  $\chi^2/\text{NDF}$ : 19542.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13.796+/-0.049  $\chi^2/\text{NDF}$ : 41265.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

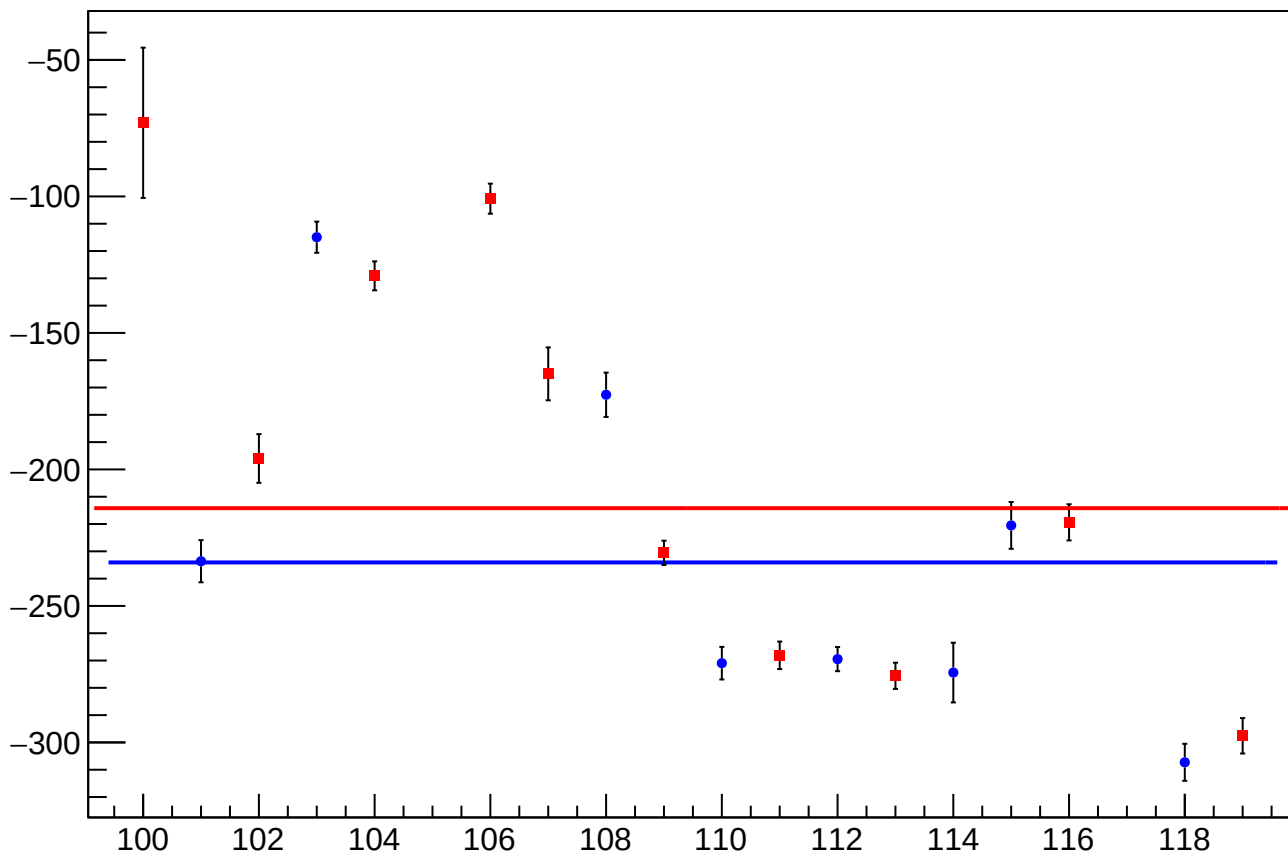
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.806+/-0.036  $\chi^2/\text{NDF}$ : 60807.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usr\_atr2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -234.069+/-2.321  $\chi^2$ /NDF: 728.0/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -214.195+/-1.913  $\chi^2$ /NDF: 1195.2/9

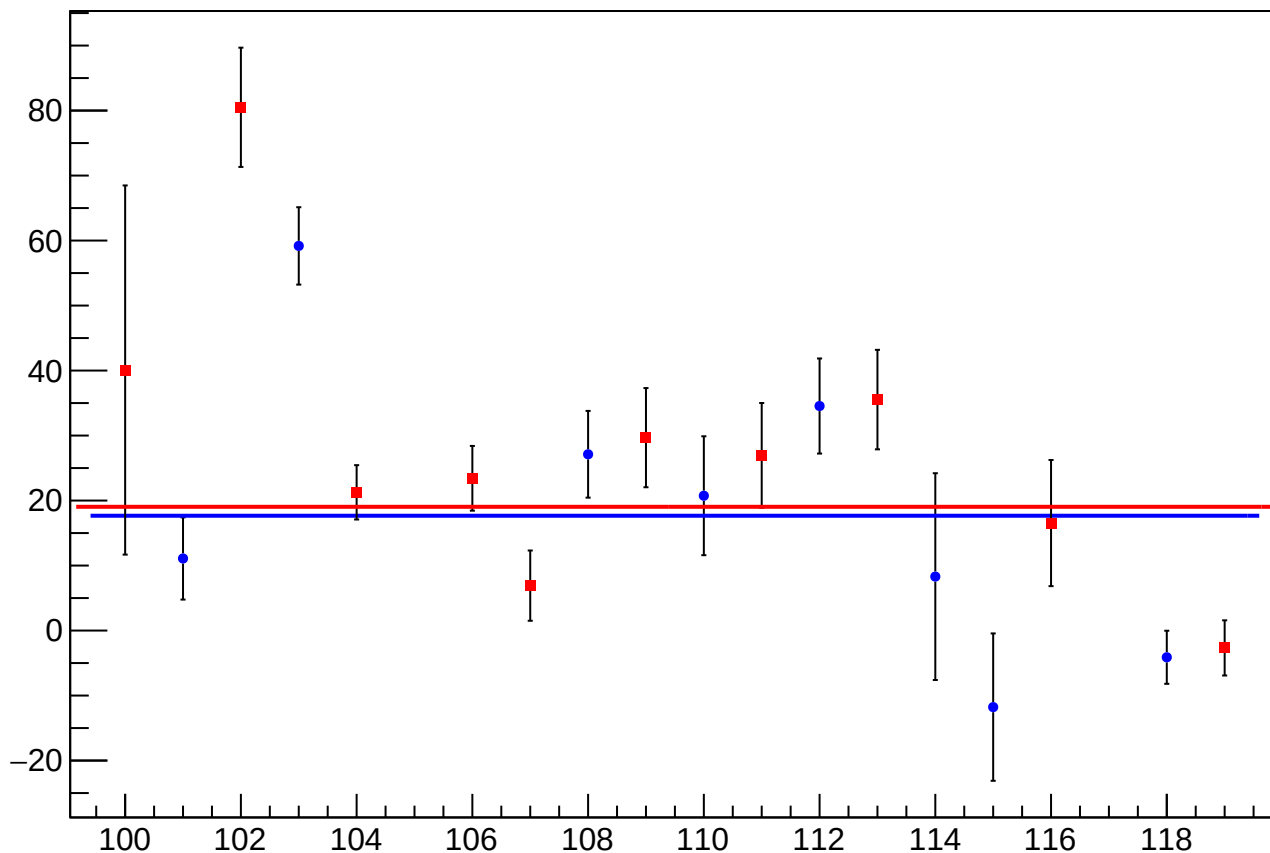
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -222.235+/-1.476  $\chi^2$ /NDF: 1966.8/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 17.665 $\pm$ 2.370  $\chi^2$ /NDF: 92.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.040 $\pm$ 1.959  $\chi^2$ /NDF: 85.3/9

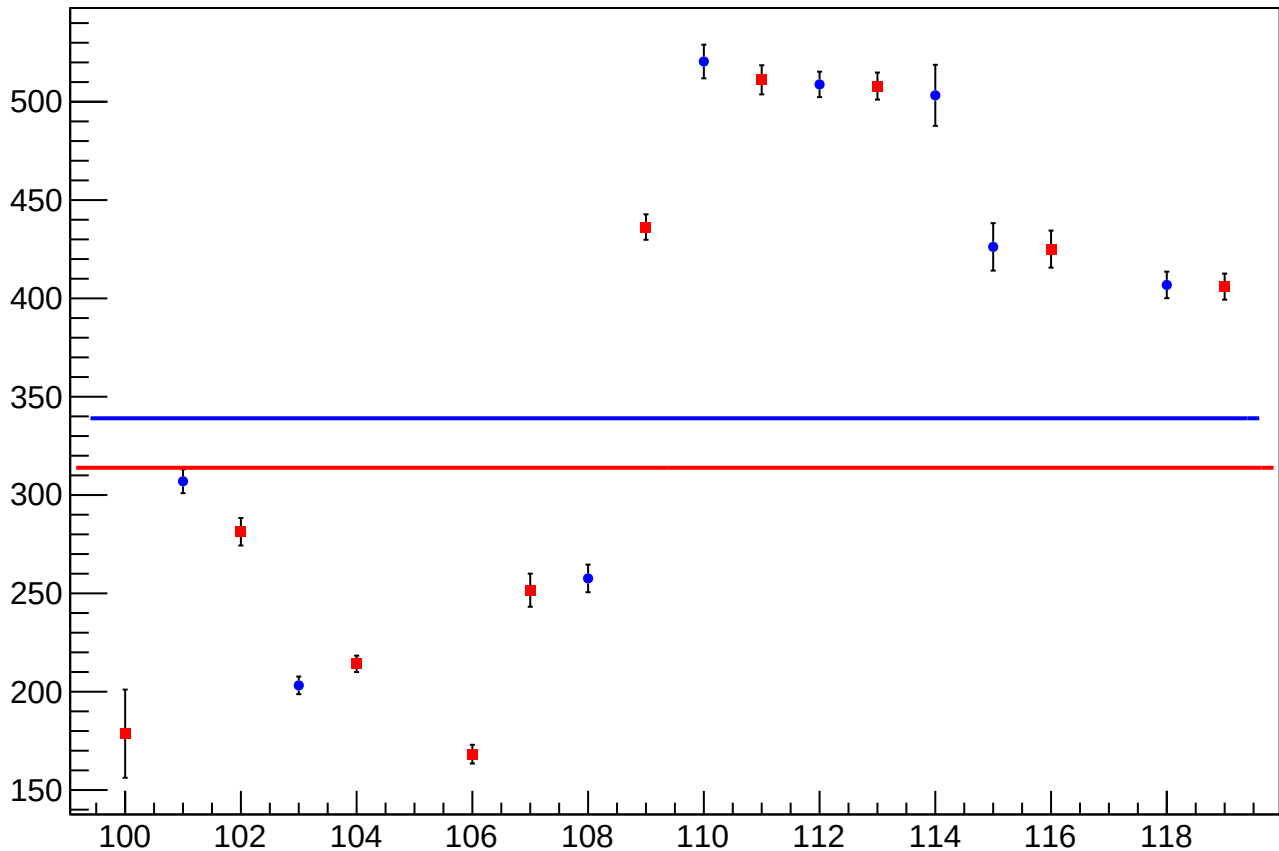
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.482 $\pm$ 1.510  $\chi^2$ /NDF: 178.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 339.033+/-2.439  $\chi^2/\text{NDF}$ : 2484.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 313.870+/-2.061  $\chi^2/\text{NDF}$ : 3817.9/9

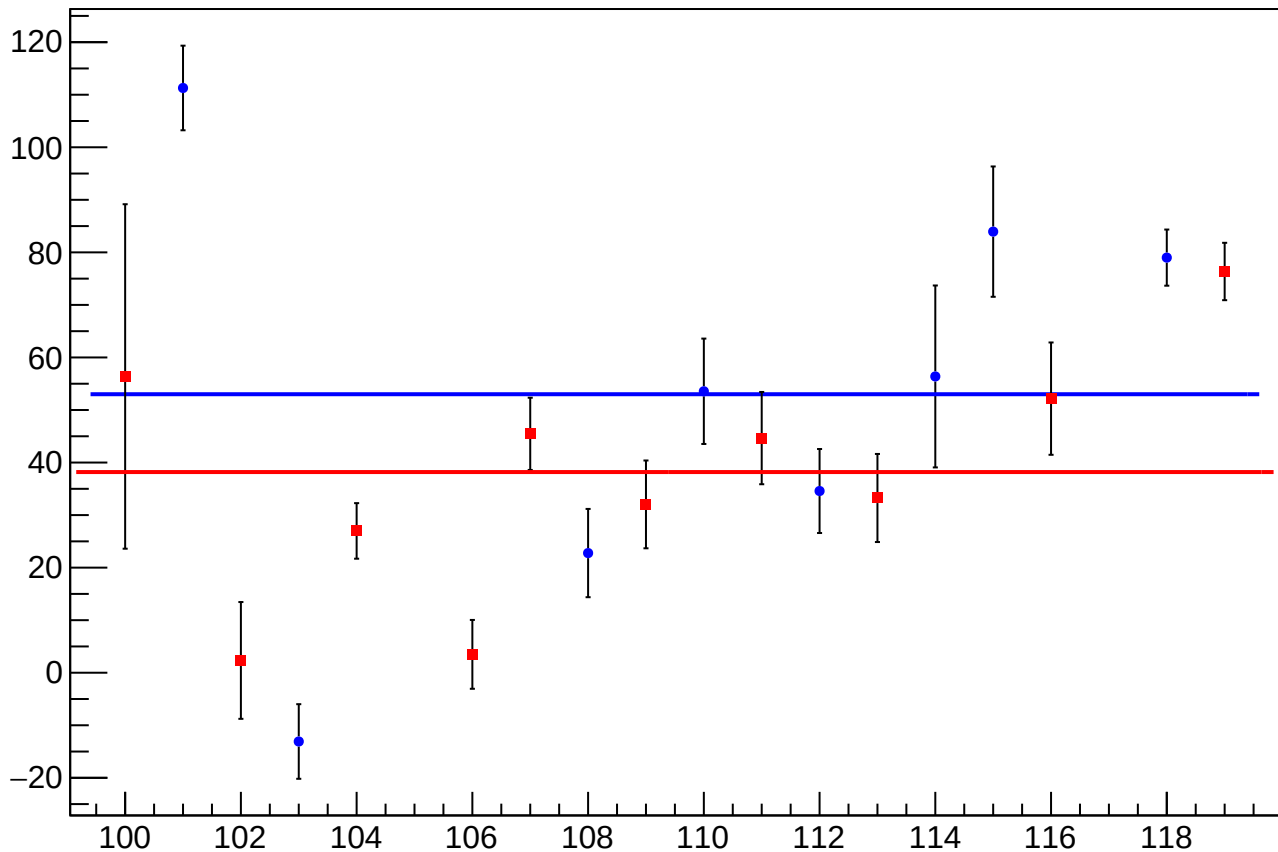
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 324.349+/-1.574  $\chi^2/\text{NDF}$ : 6364.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 53.002 $\pm$ 2.888  $\chi^2$ /NDF: 187.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 38.190 $\pm$ 2.404  $\chi^2$ /NDF: 96.4/9

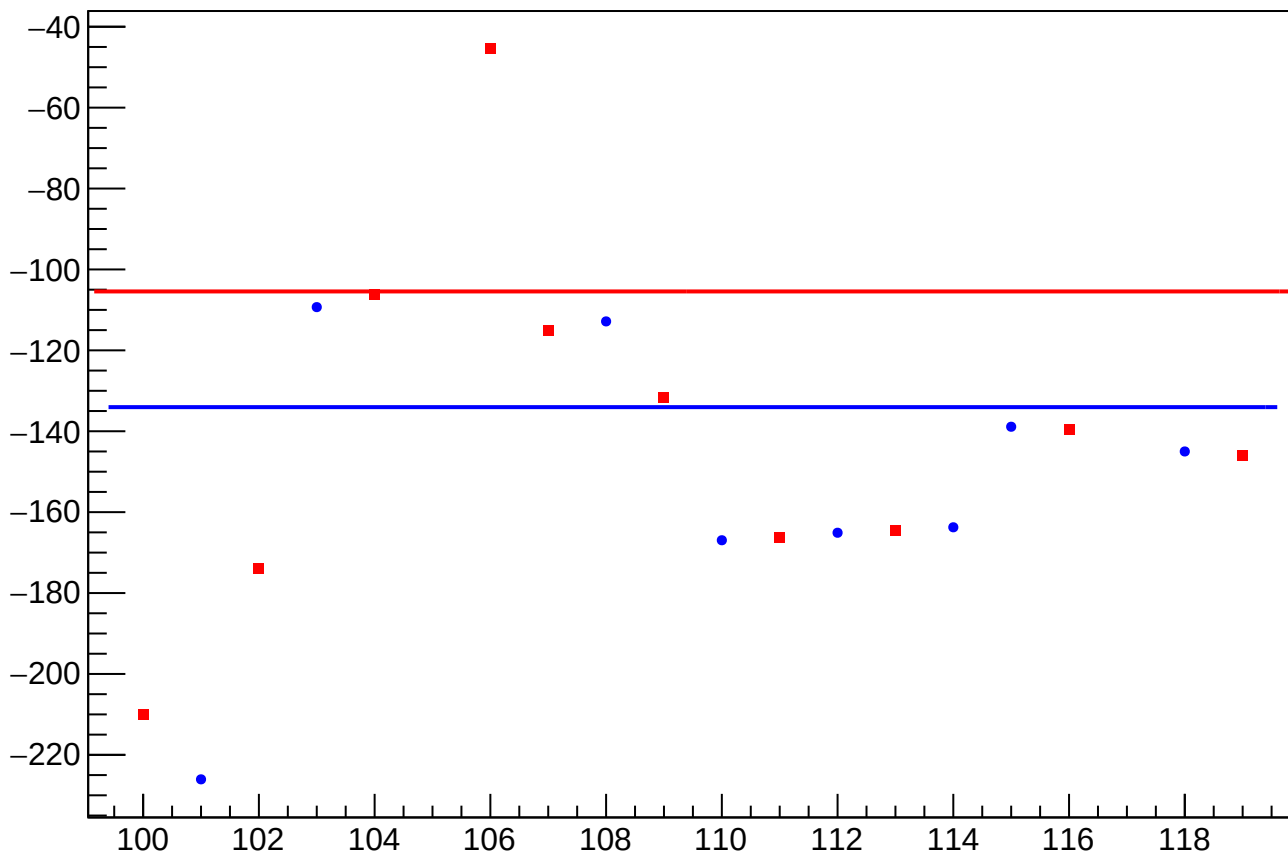
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 44.252 $\pm$ 1.847  $\chi^2$ /NDF: 299.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -134.038+/-0.130  $\chi^2/\text{NDF}$ : 94884.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -105.437+/-0.105  $\chi^2/\text{NDF}$ : 196714.2/9

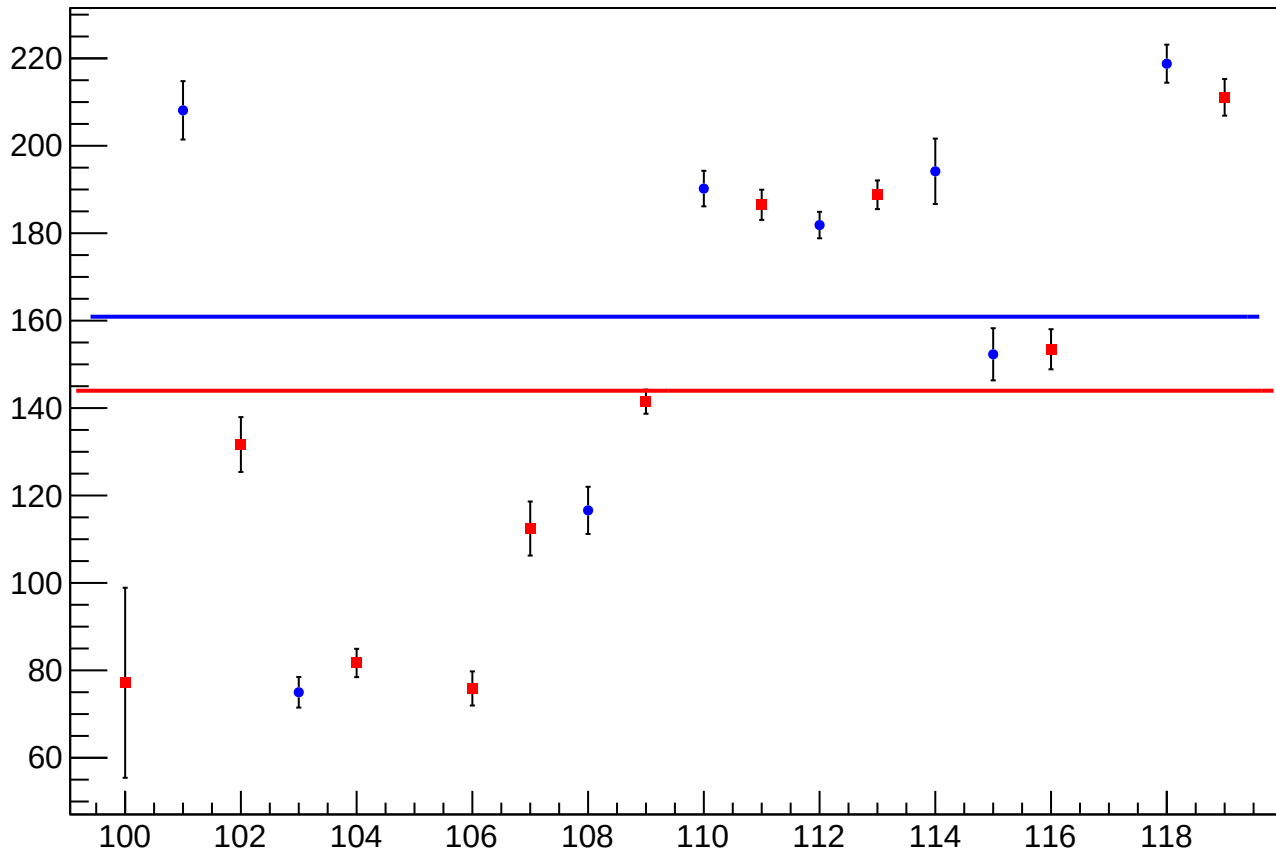
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -116.810+/-0.082  $\chi^2/\text{NDF}$ : 320976.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 160.905 $\pm$ 1.568  $\chi^2$ /NDF: 1017.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 143.970 $\pm$ 1.263  $\chi^2$ /NDF: 1313.0/9

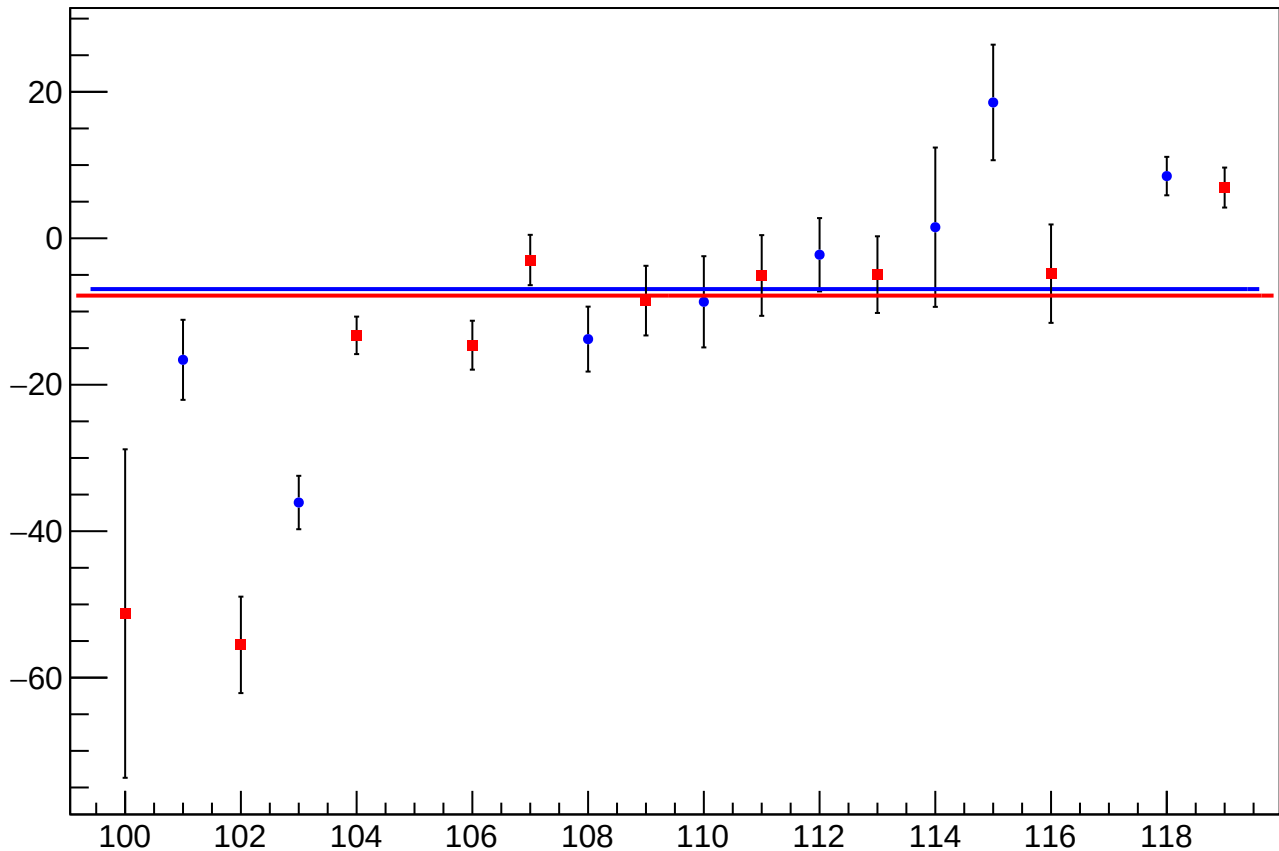
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 150.635 $\pm$ 0.984  $\chi^2$ /NDF: 2401.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_atr2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -6.936+/-1.592  $\chi^2$ /NDF: 115.9/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -7.826+/-1.268  $\chi^2$ /NDF: 96.8/9

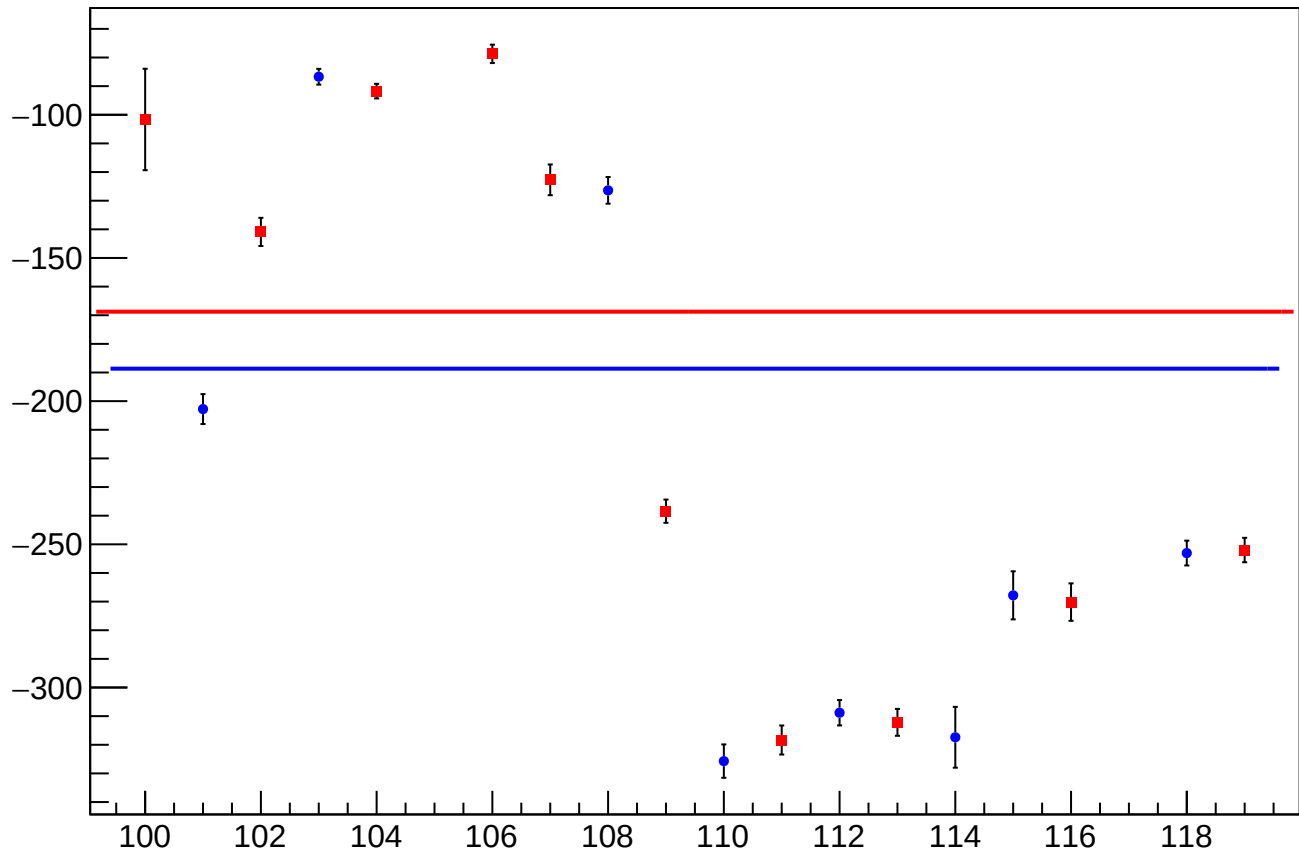
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -7.481+/-0.992  $\chi^2$ /NDF: 212.9/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_atr2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-188.655 \pm 1.640$   $\chi^2/\text{NDF}$ : 3307.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-168.755 \pm 1.345$   $\chi^2/\text{NDF}$ : 4531.9/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

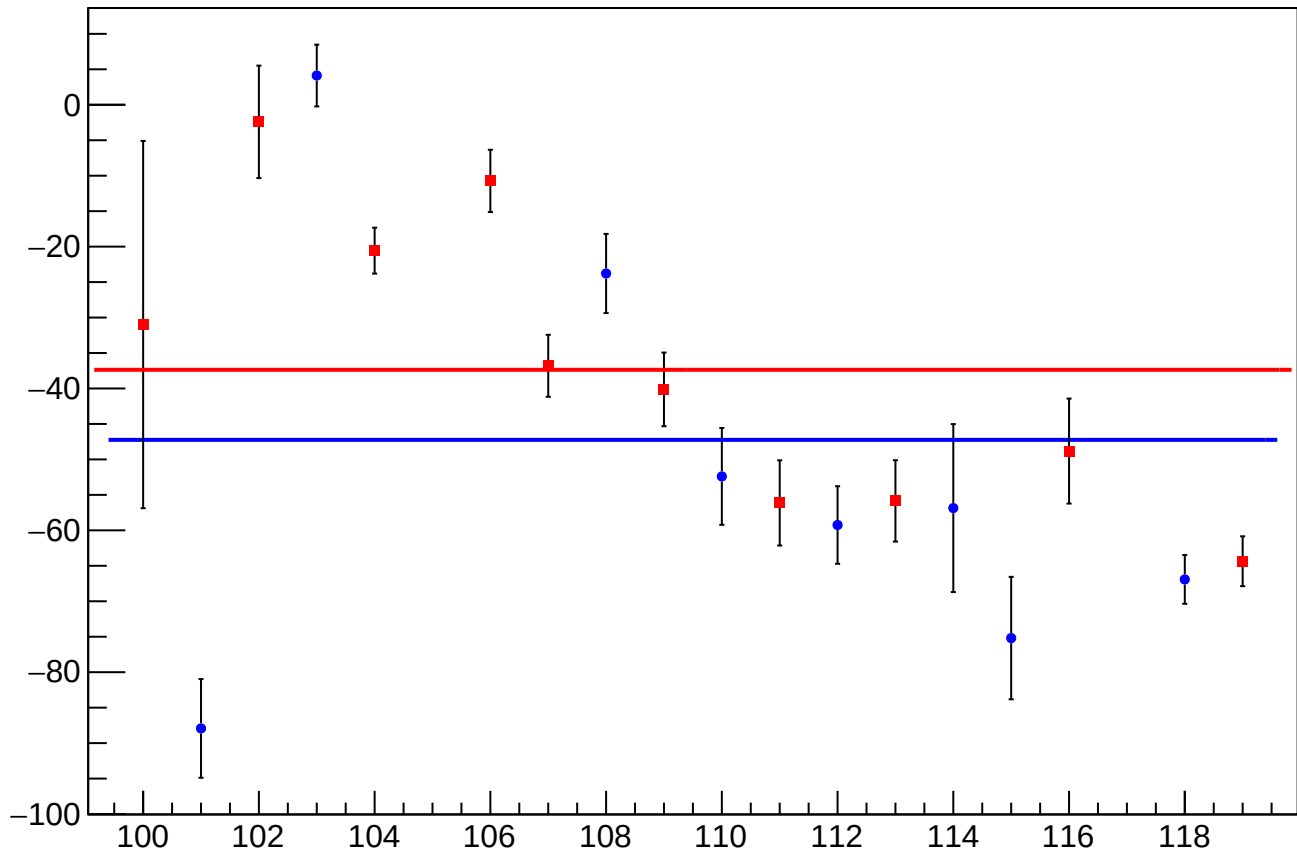
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-176.759 \pm 1.040$   $\chi^2/\text{NDF}$ : 7927.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usr\_atr2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-47.243 \pm 1.940$   $\chi^2/\text{NDF}$ : 240.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-37.366 \pm 1.558$   $\chi^2/\text{NDF}$ : 165.2/9

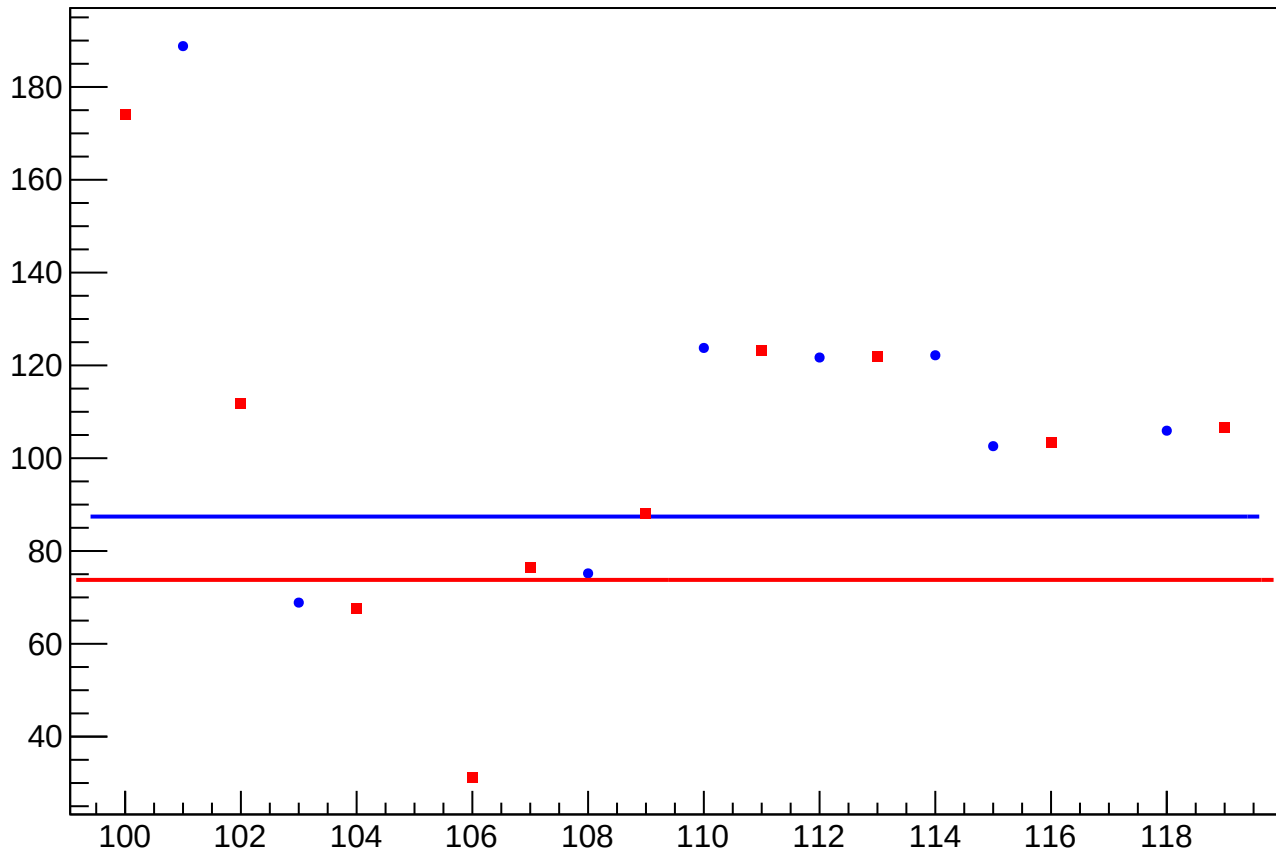
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-41.241 \pm 1.215$   $\chi^2/\text{NDF}$ : 421.4/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usr\_atr2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 87.421+/-0.085  $\chi^2/\text{NDF}$ : 156600.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73.775+/-0.072  $\chi^2/\text{NDF}$ : 177364.4/9

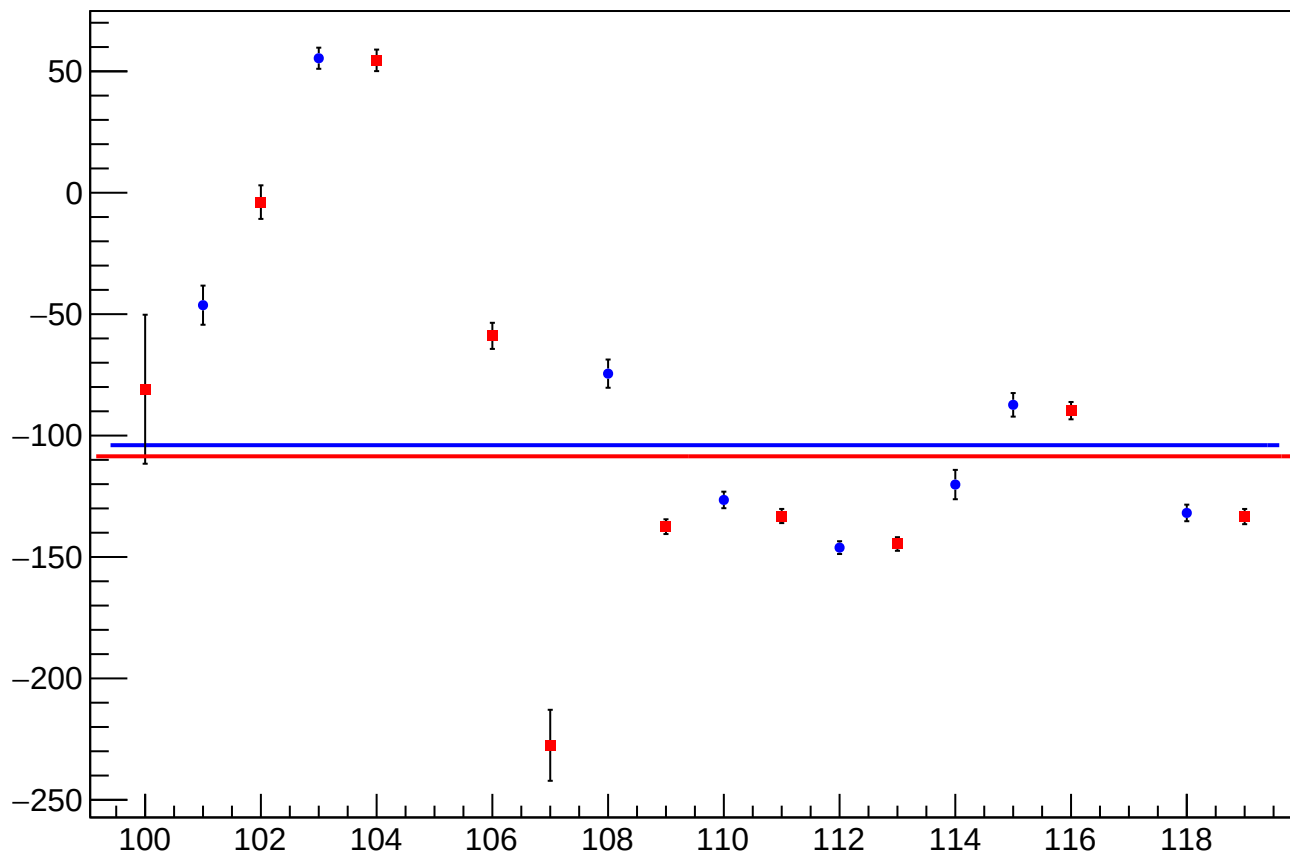
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 79.437+/-0.055  $\chi^2/\text{NDF}$ : 349052.6/17

- 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: -103.961+/-1.437  $\chi^2/\text{NDF}$ : 1804.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -108.535+/-1.245  $\chi^2/\text{NDF}$ : 2151.4/9

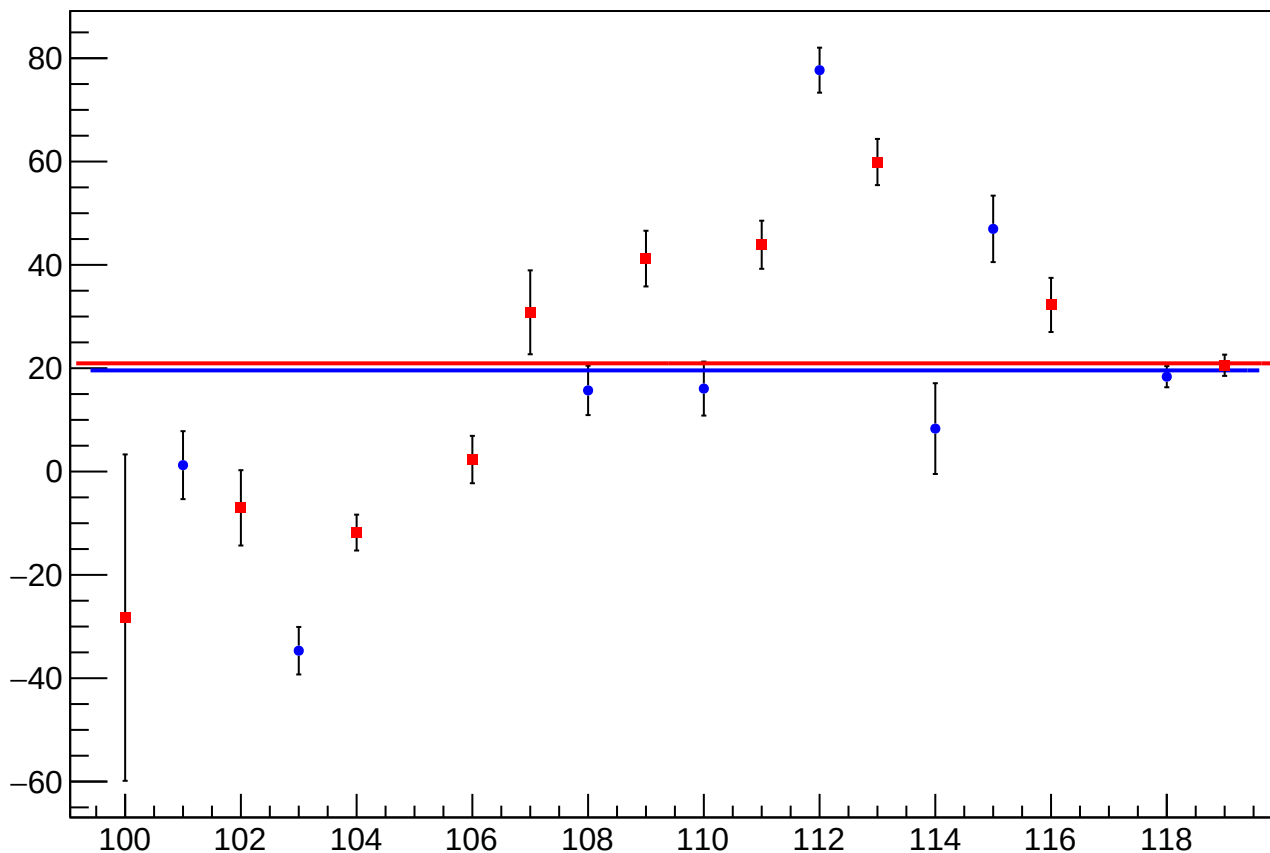
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -106.574+/-0.941  $\chi^2/\text{NDF}$ : 3962.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 19.578+/-1.446  $\chi^2/\text{NDF}$ : 346.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.943+/-1.326  $\chi^2/\text{NDF}$ : 243.1/9

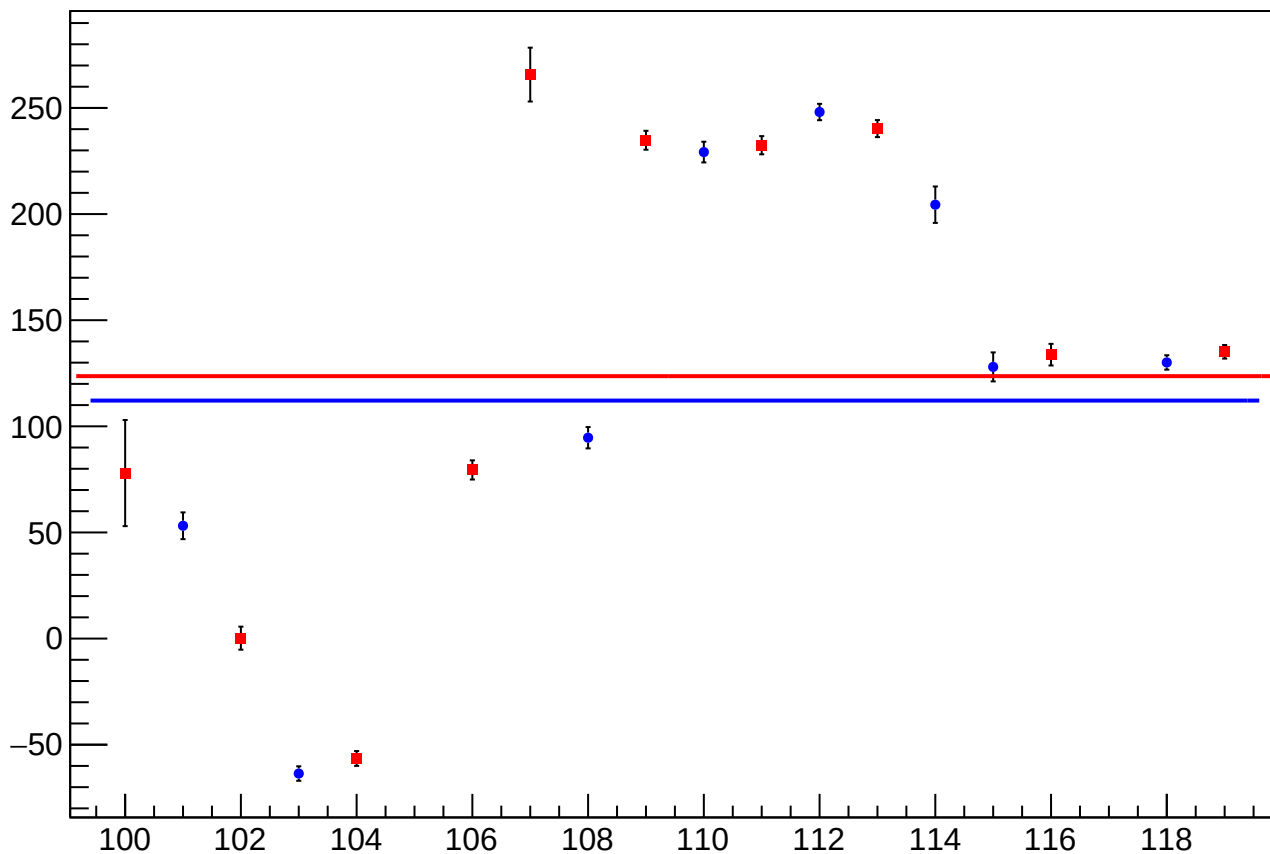
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.319+/-0.977  $\chi^2/\text{NDF}$ : 590.0/17

- 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: 112.131+/-1.619  $\chi^2/\text{NDF}$ : 4716.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 123.641+/-1.450  $\chi^2/\text{NDF}$ : 5522.5/9

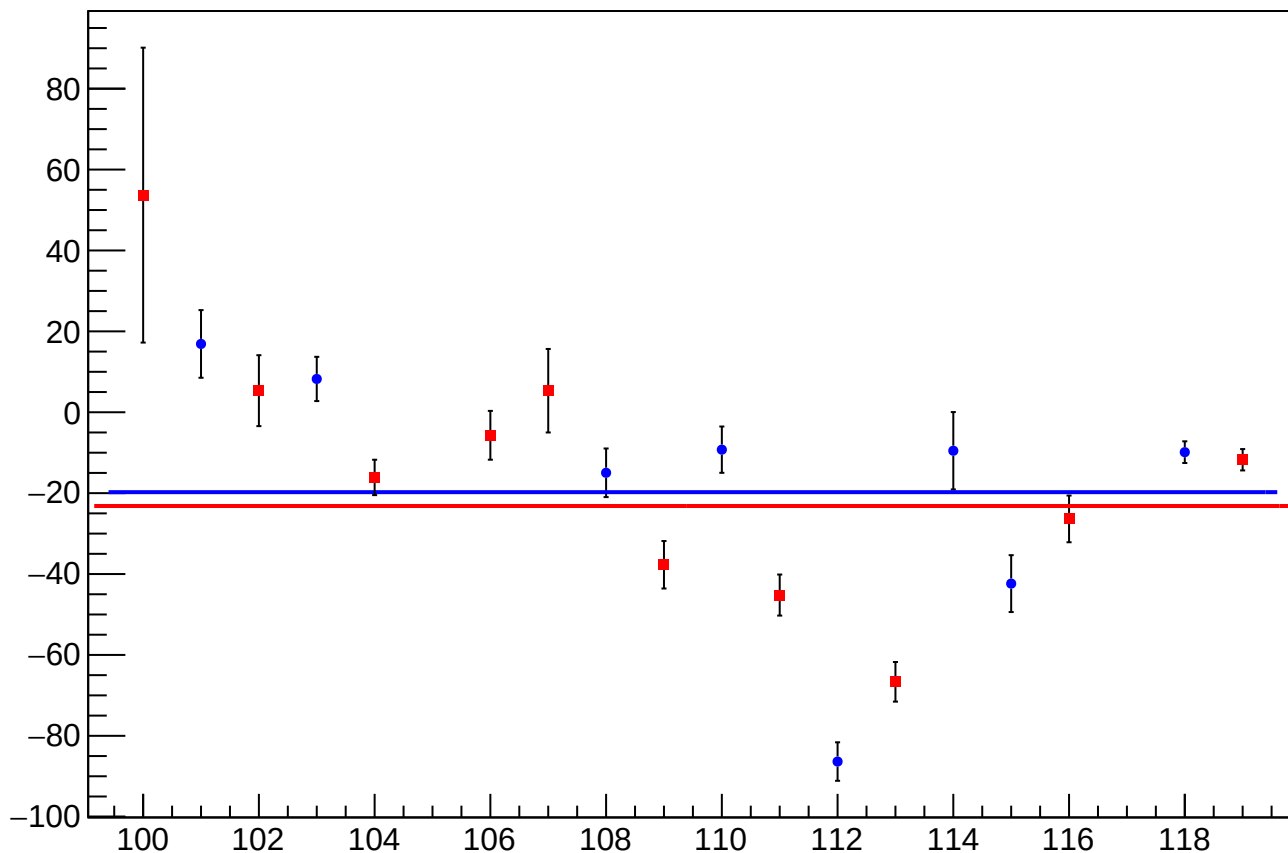
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 118.517+/-1.080  $\chi^2/\text{NDF}$ : 10267.3/17

- 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: -19.757+/-1.767  $\chi^2/\text{NDF}$ : 270.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -23.179+/-1.610  $\chi^2/\text{NDF}$ : 156.4/9

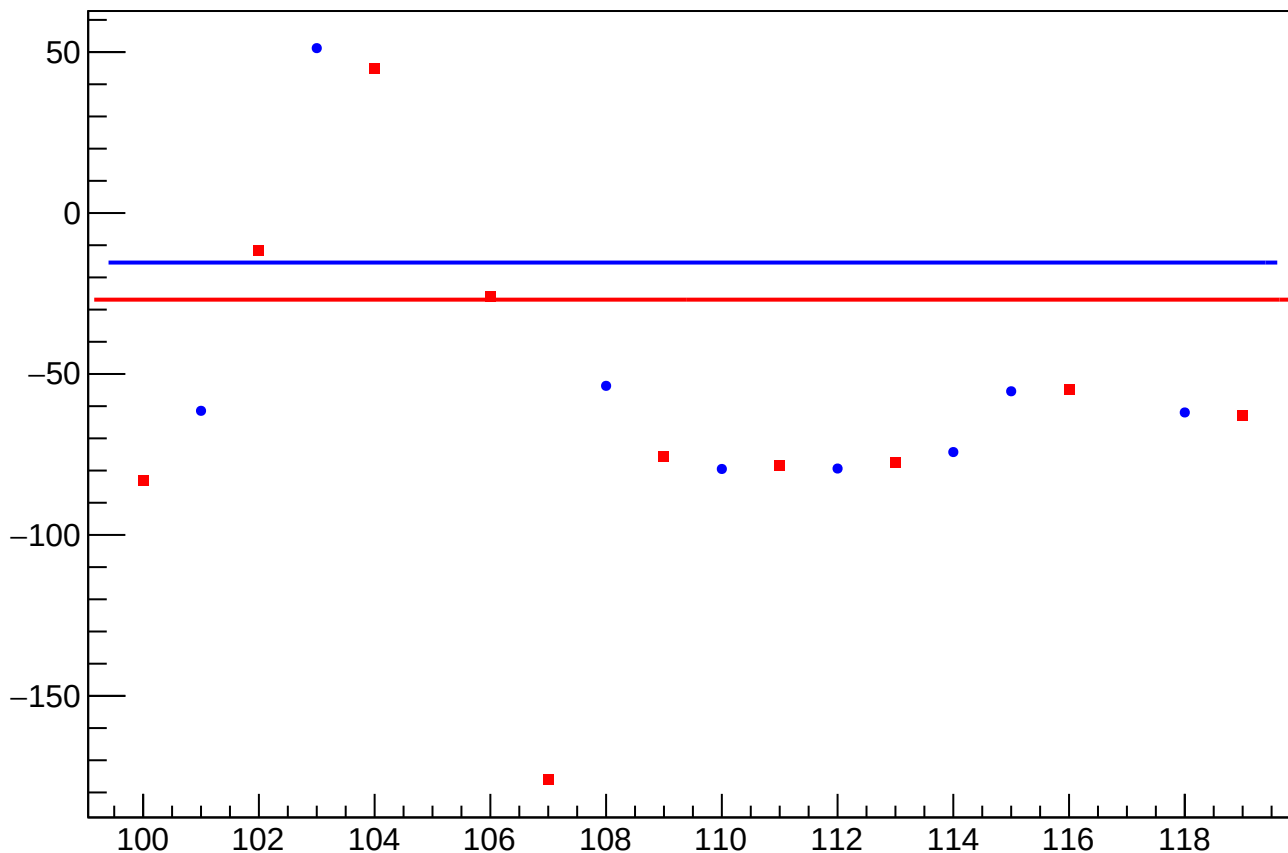
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.626+/-1.190  $\chi^2/\text{NDF}$ : 428.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -15.384+/-0.092  $\chi^2/\text{NDF}$ : 384612.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -26.909+/-0.086  $\chi^2/\text{NDF}$ : 375976.1/9

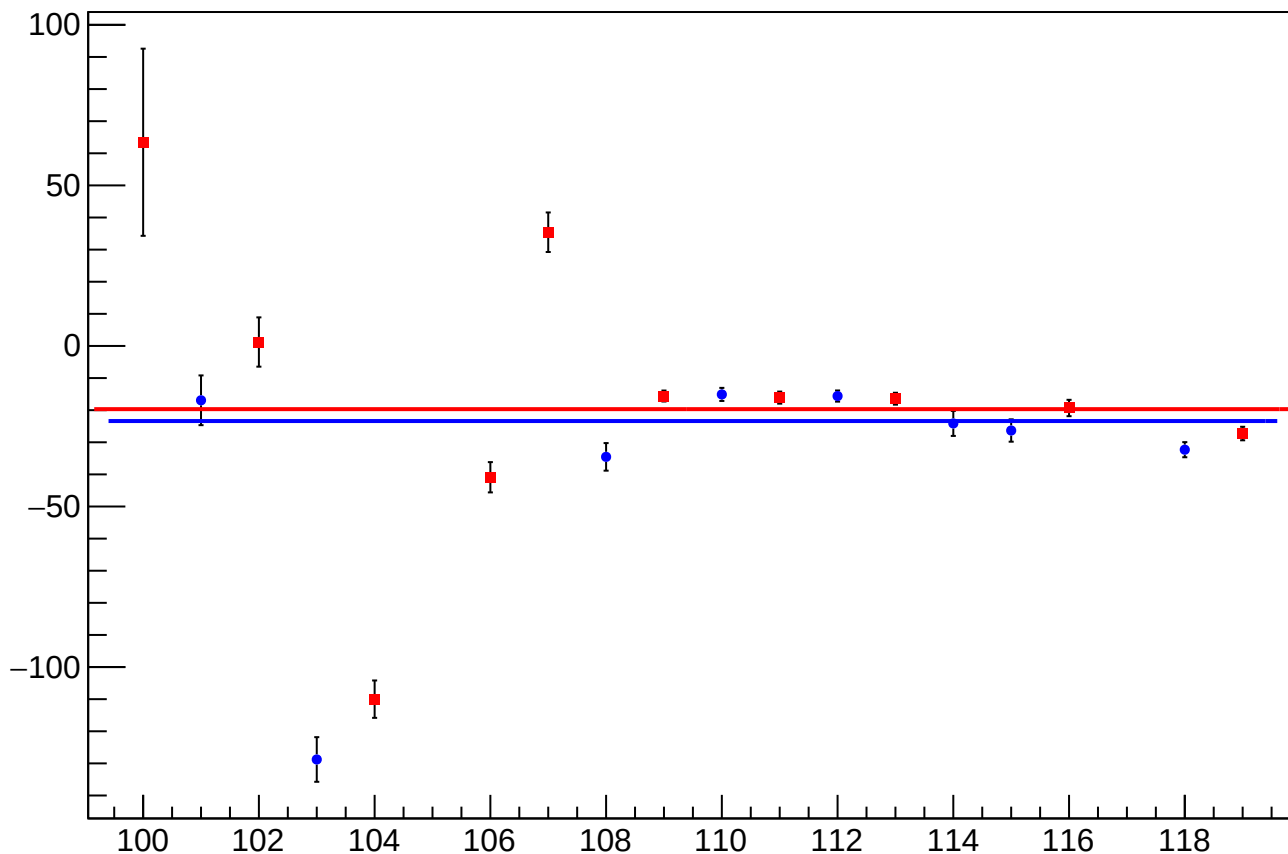
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.547+/-0.063  $\chi^2/\text{NDF}$ : 768961.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -23.384+/-1.003  $\chi^2/\text{NDF}$ : 289.1/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -19.680+/-0.840  $\chi^2/\text{NDF}$ : 382.1/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

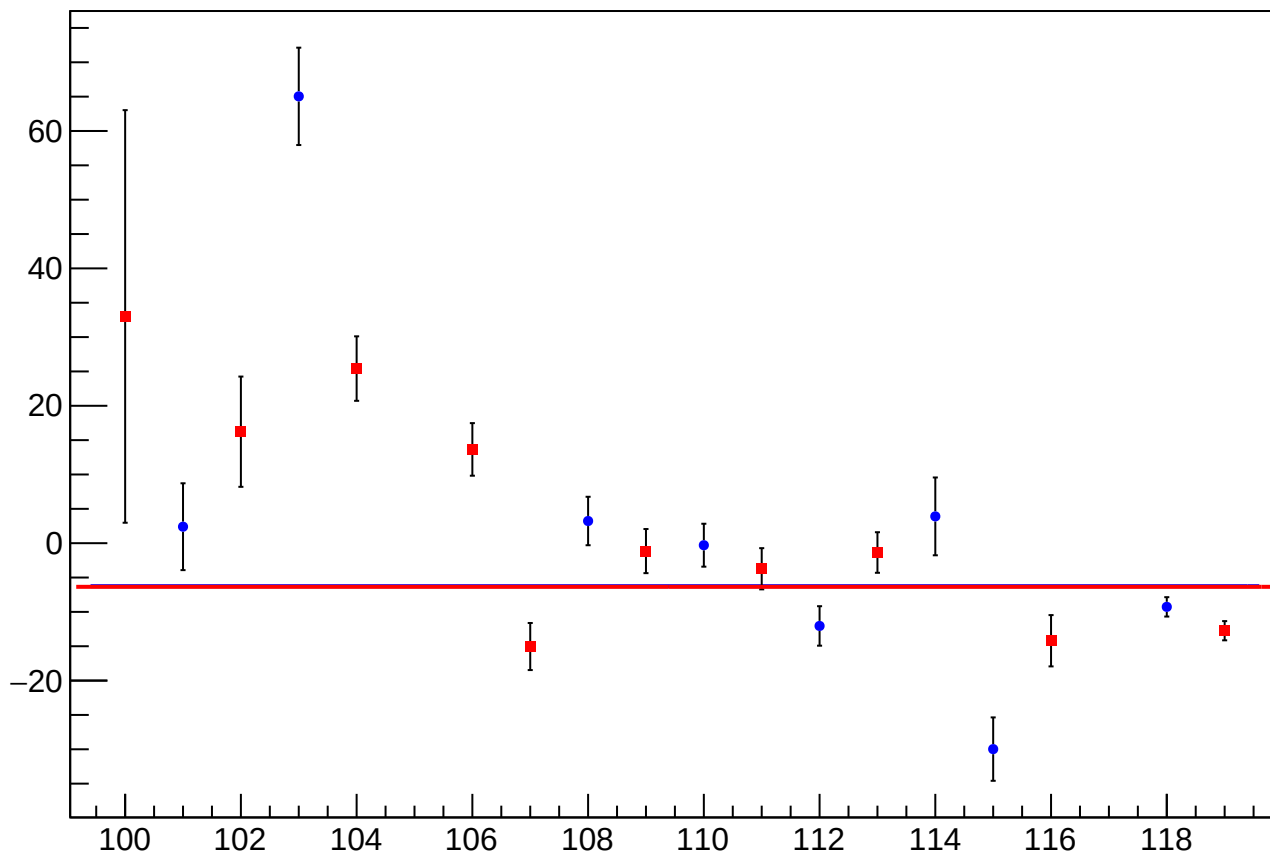
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.207+/-0.644  $\chi^2/\text{NDF}$ : 679.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -6.259+/-1.037  $\chi^2/\text{NDF}$ : 152.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.352+/-0.944  $\chi^2/\text{NDF}$ : 120.8/9

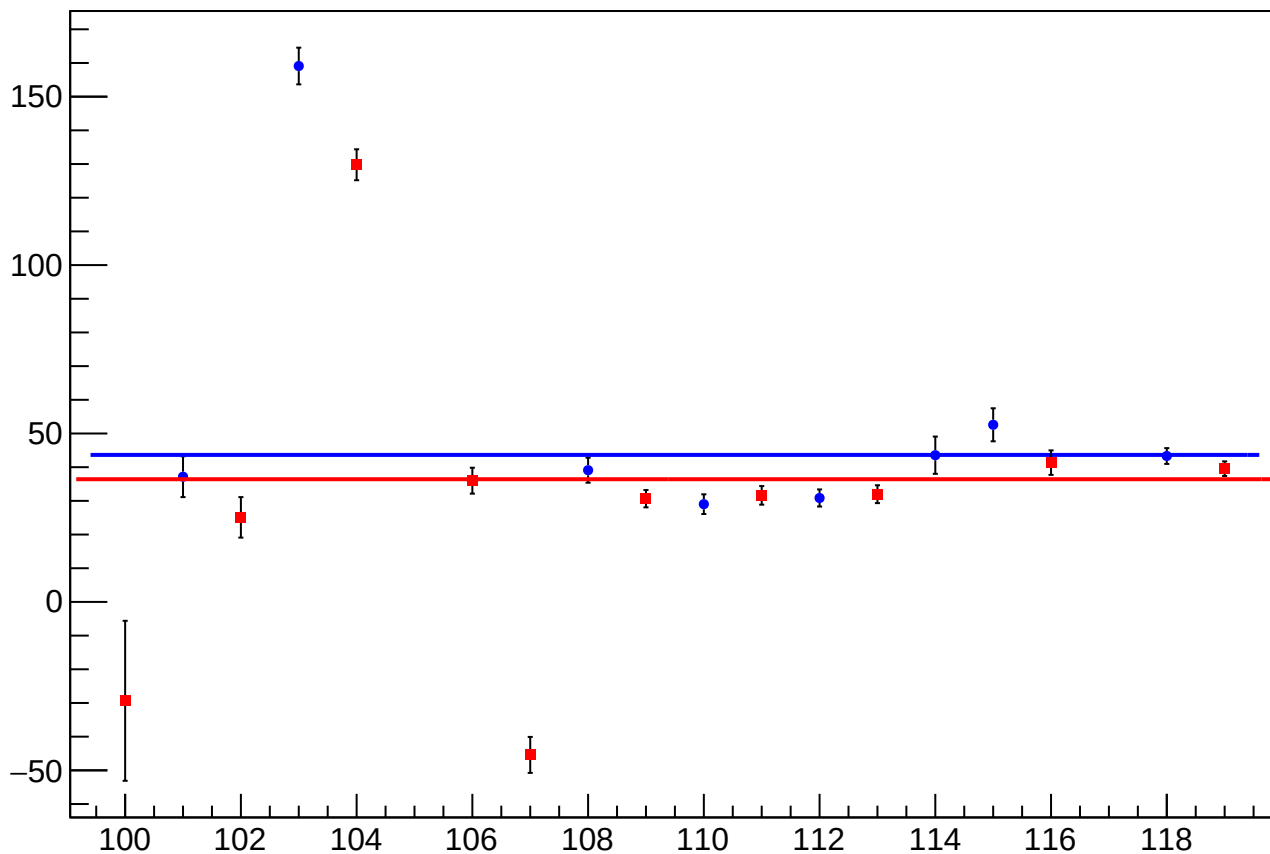
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.310+/-0.698  $\chi^2/\text{NDF}$ : 273.0/17

- 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: 43.644+/-1.229  $\chi^2/\text{NDF}$ : 505.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.426+/-1.058  $\chi^2/\text{NDF}$ : 673.9/9

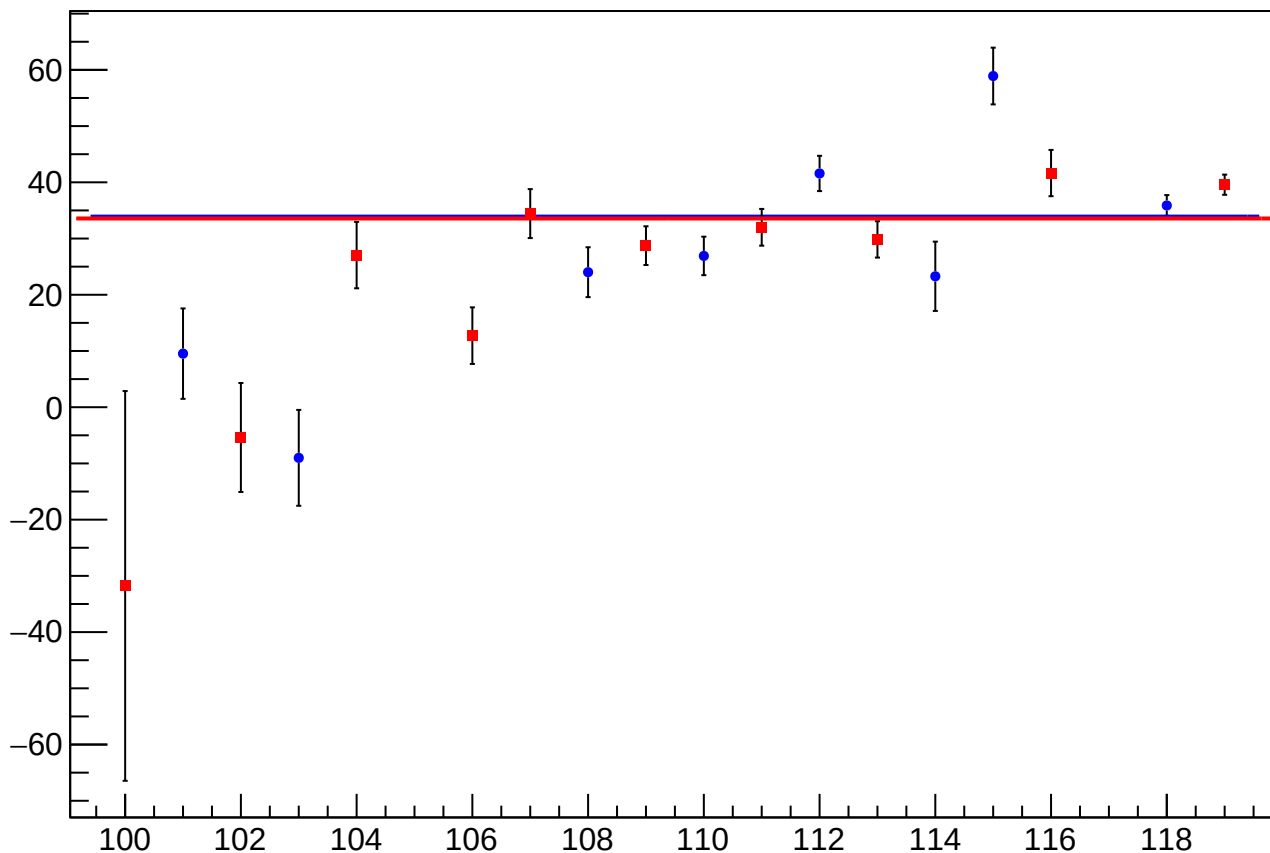
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 39.498+/-0.802  $\chi^2/\text{NDF}$ : 1199.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 33.898 $\pm$ 1.264  $\chi^2$ /NDF: 78.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 33.566 $\pm$ 1.135  $\chi^2$ /NDF: 56.7/9

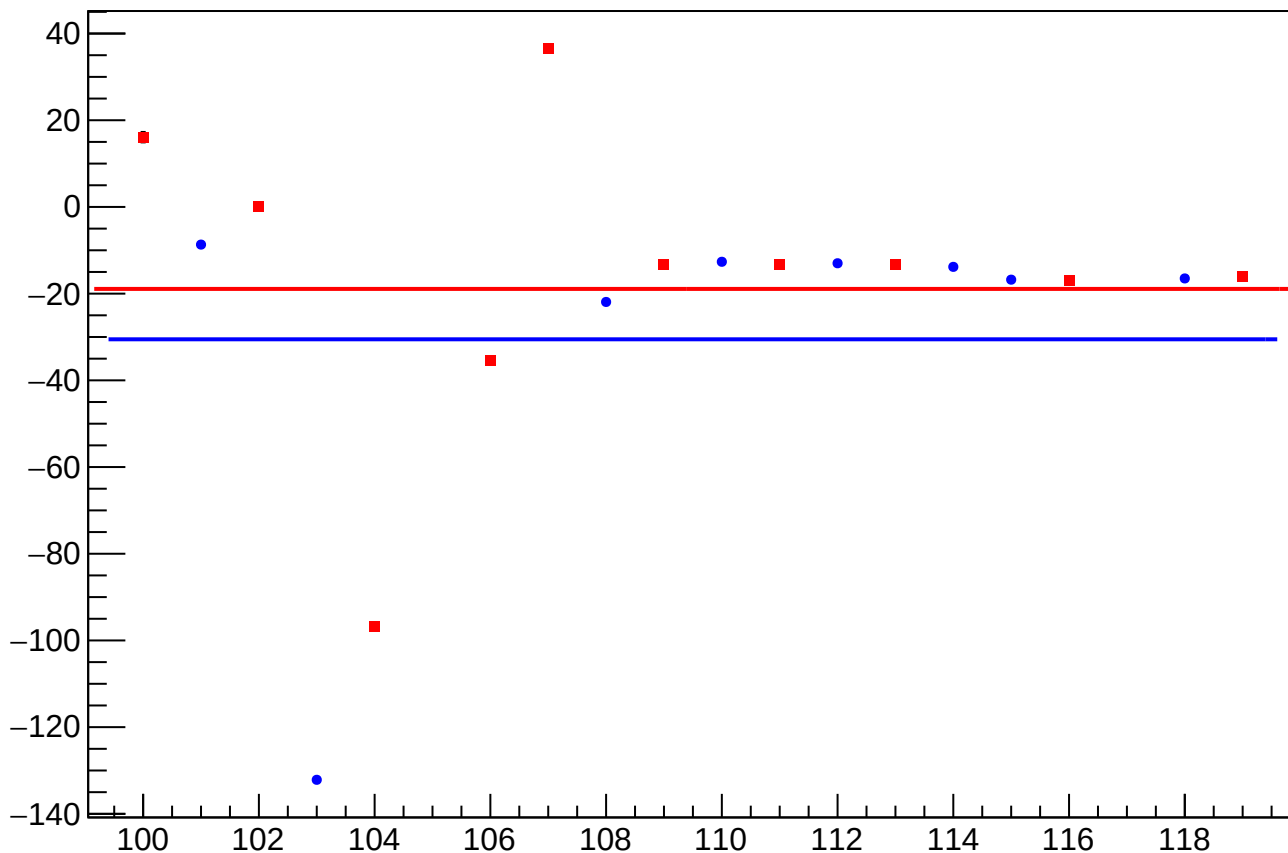
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.715 $\pm$ 0.844  $\chi^2$ /NDF: 135.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -30.534+/-0.080  $\chi^2/\text{NDF}$ : 222993.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18.910+/-0.069  $\chi^2/\text{NDF}$ : 203233.4/9

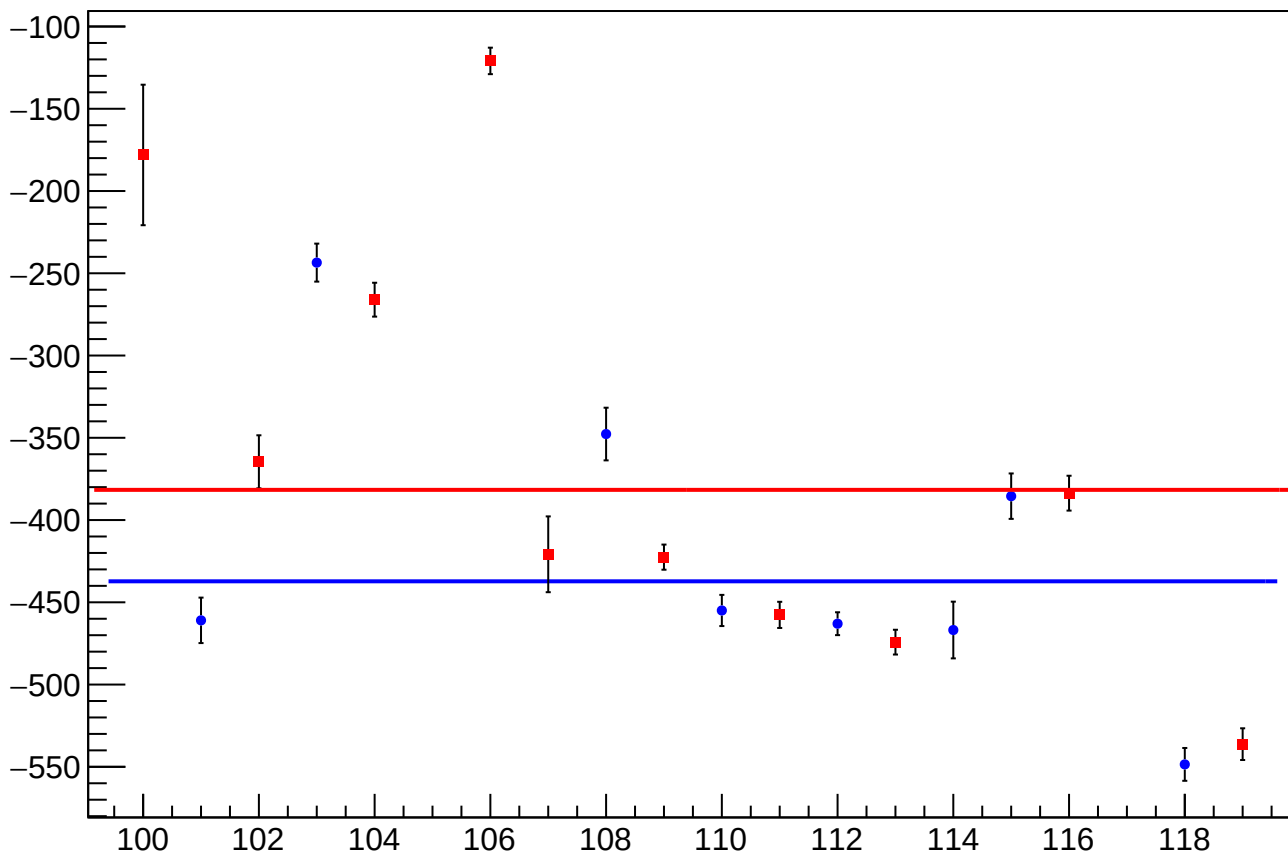
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -23.890+/-0.053  $\chi^2/\text{NDF}$ : 438229.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -437.240 $\pm$ 3.859  $\chi^2$ /NDF: 474.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -381.651 $\pm$ 3.140  $\chi^2$ /NDF: 1730.6/9

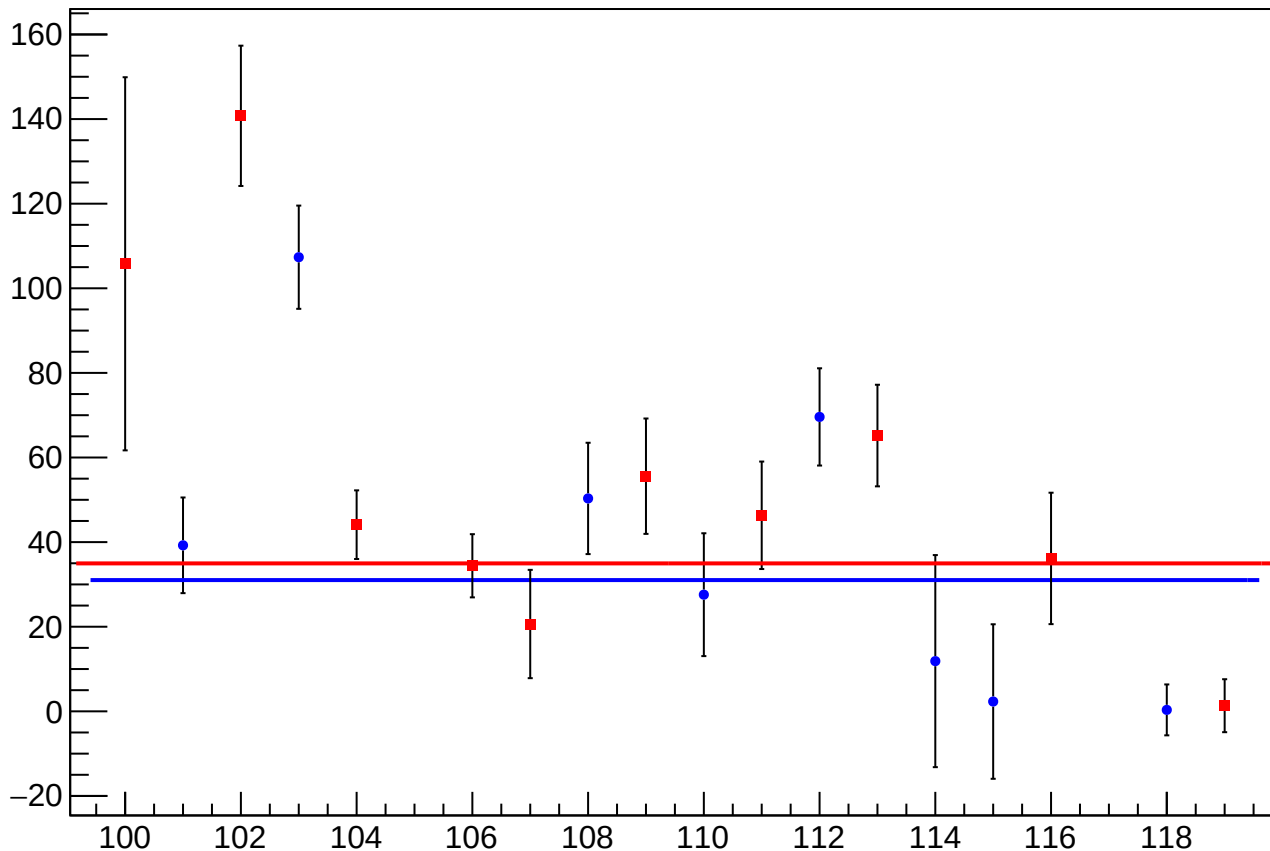
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -403.792 $\pm$ 2.436  $\chi^2$ /NDF: 2329.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 31.026 $\pm$ 3.927  $\chi^2$ /NDF: 82.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 34.970 $\pm$ 3.305  $\chi^2$ /NDF: 84.1/9

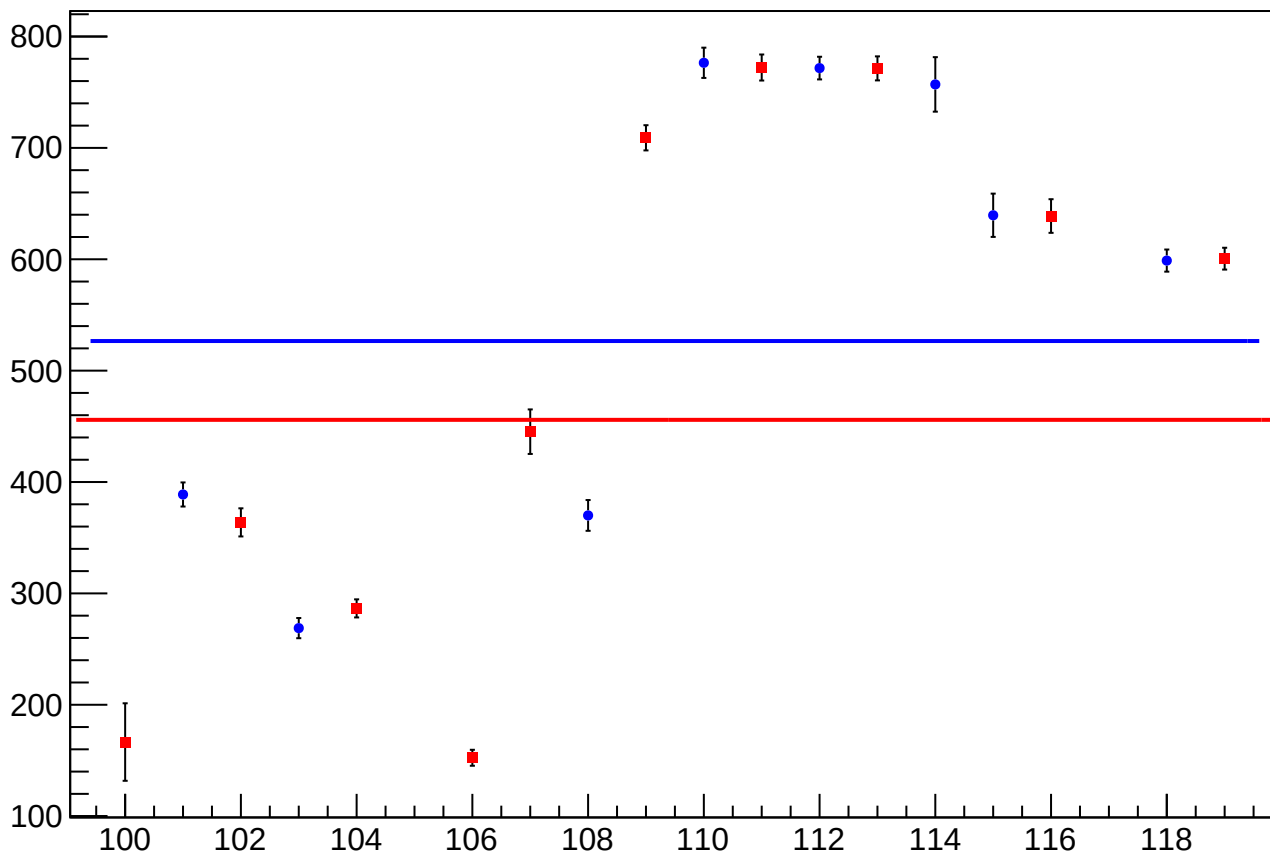
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.335 $\pm$ 2.529  $\chi^2$ /NDF: 166.9/17

- 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: 526.591 $\pm$ 4.245  $\chi^2$ /NDF: 2193.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 455.825 $\pm$ 3.476  $\chi^2$ /NDF: 4804.4/9

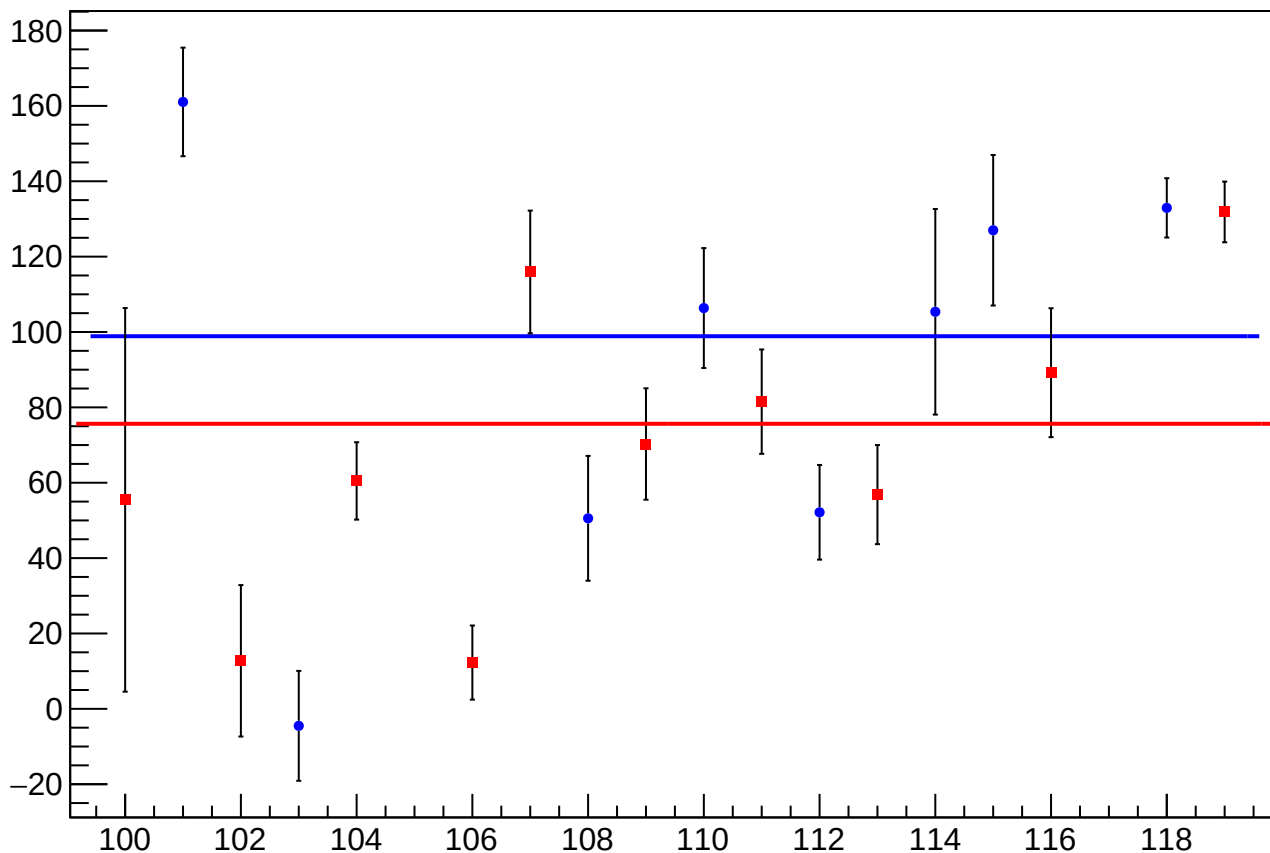
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 484.227 $\pm$ 2.689  $\chi^2$ /NDF: 7164.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 98.879+/-4.798  $\chi^2/\text{NDF}$ : 112.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 75.647+/-4.054  $\chi^2/\text{NDF}$ : 111.5/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

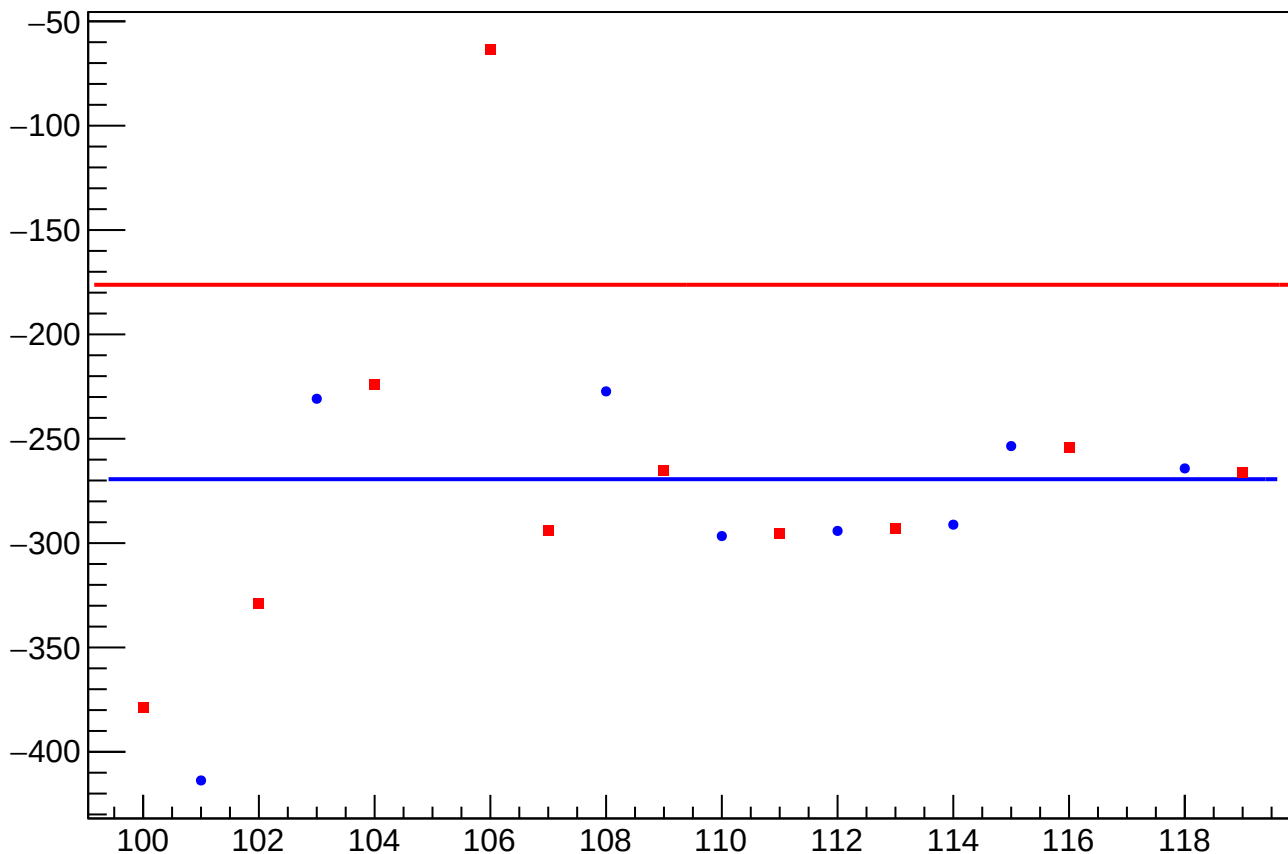
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 85.324+/-3.096  $\chi^2/\text{NDF}$ : 237.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-269.377 \pm 0.241$   $\chi^2/\text{NDF}$ : 67584.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-176.228 \pm 0.173$   $\chi^2/\text{NDF}$ : 388337.2/9

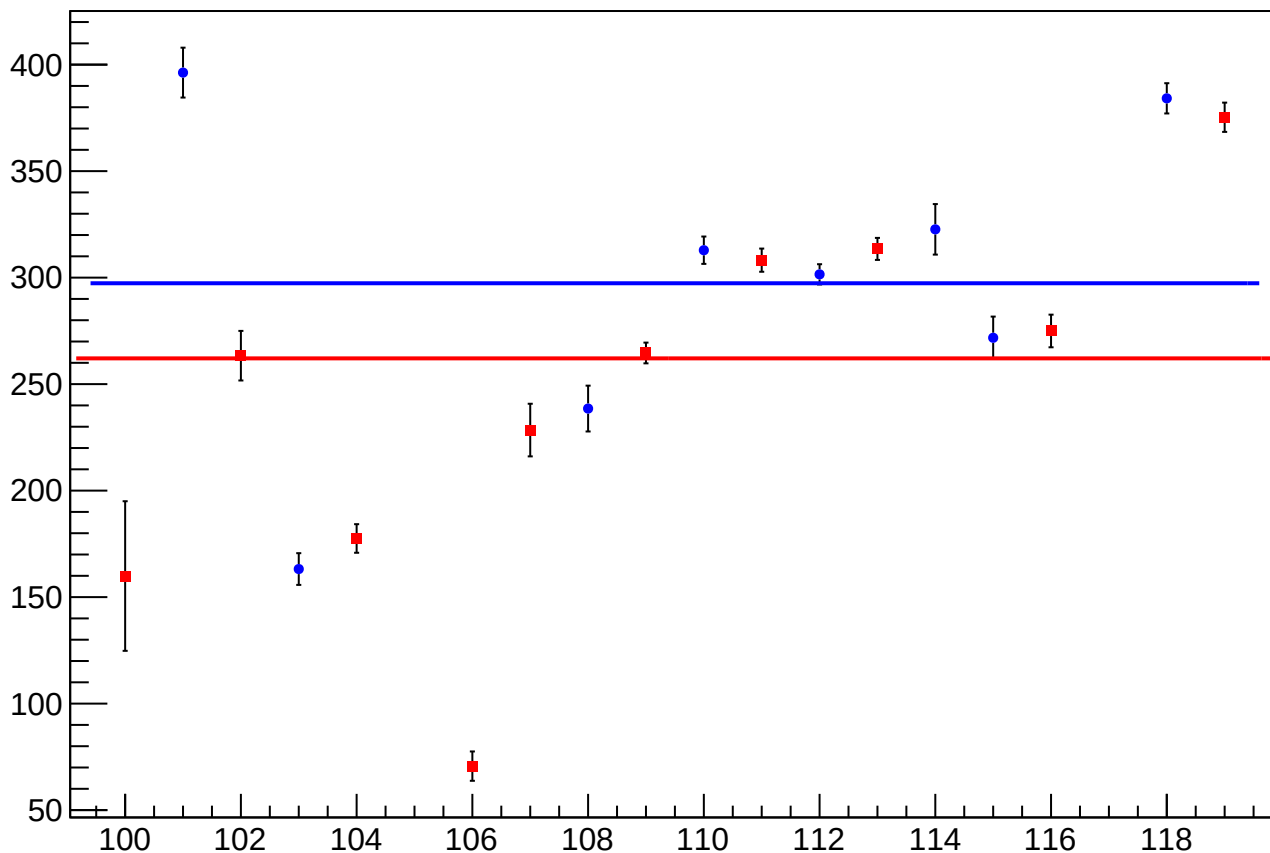
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-207.780 \pm 0.140$   $\chi^2/\text{NDF}$ : 554556.2/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 297.355 $\pm$ 2.678  $\chi^2$ /NDF: 592.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 262.088 $\pm$ 2.184  $\chi^2$ /NDF: 1392.4/9

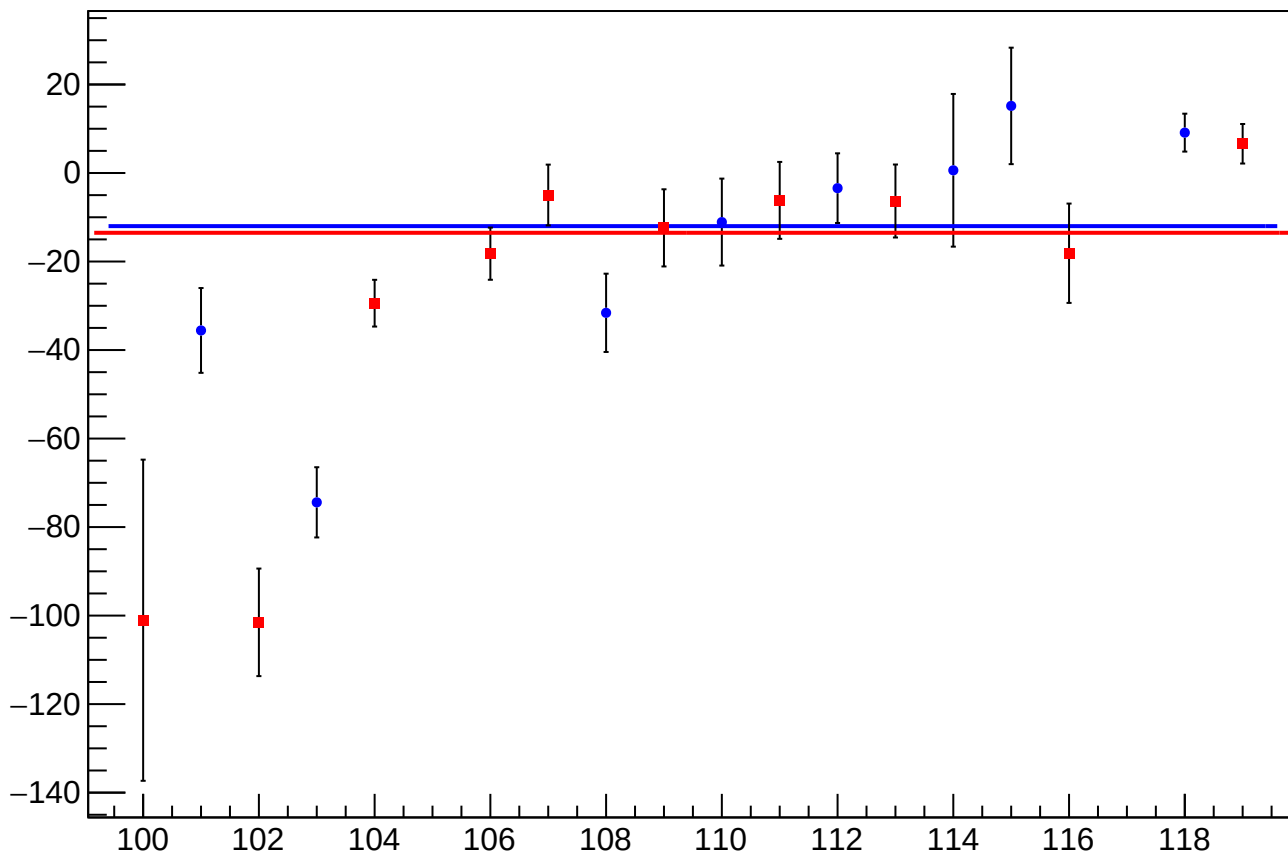
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 276.175 $\pm$ 1.692  $\chi^2$ /NDF: 2089.5/17

- 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:  $-12.003 \pm 2.777$   $\chi^2/\text{NDF}: 103.2/7$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-13.508 \pm 2.279$   $\chi^2/\text{NDF}: 91.5/9$

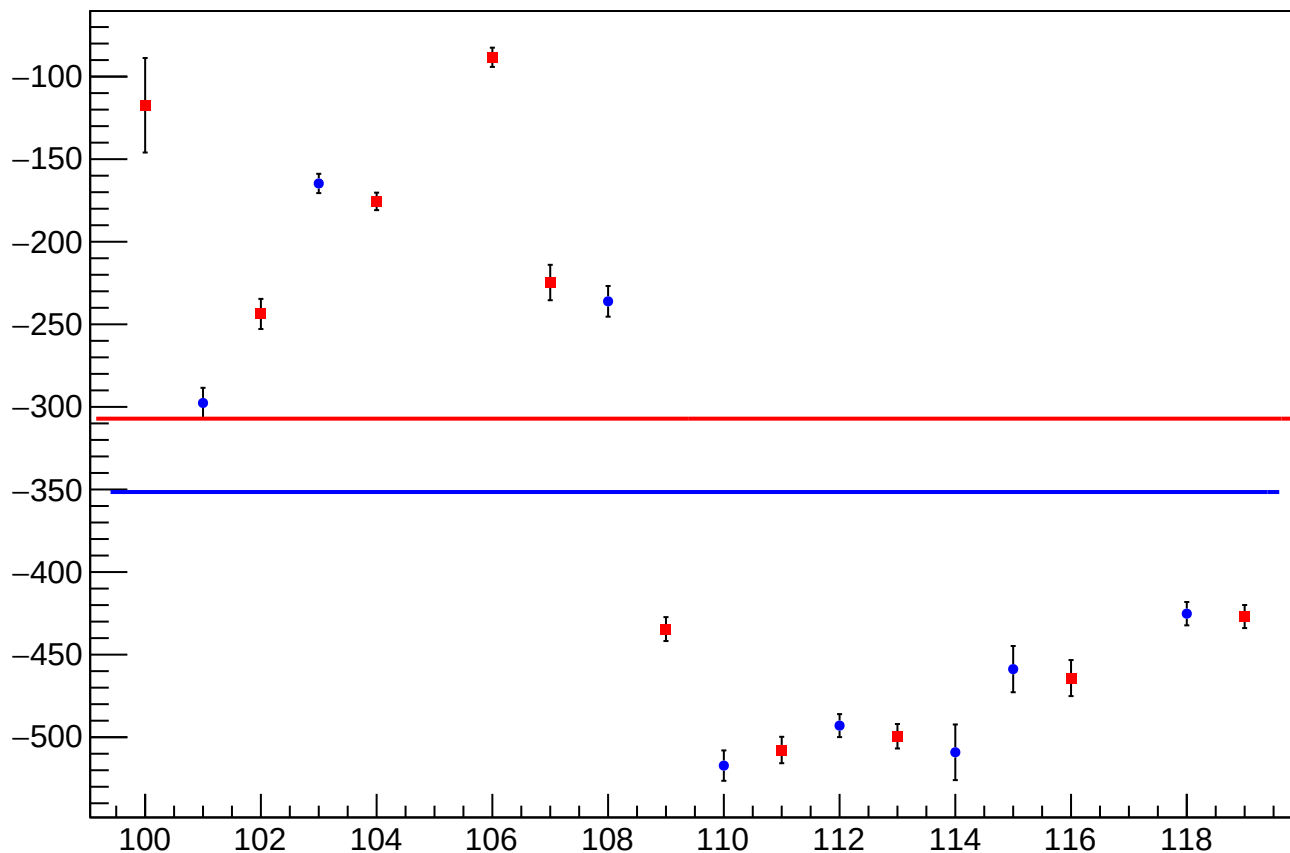
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-12.902 \pm 1.761$   $\chi^2/\text{NDF}: 194.8/17$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-351.543 \pm 2.964$   $\chi^2/\text{NDF}$ : 2201.8/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-307.115 \pm 2.434$   $\chi^2/\text{NDF}$ : 4293.0/9

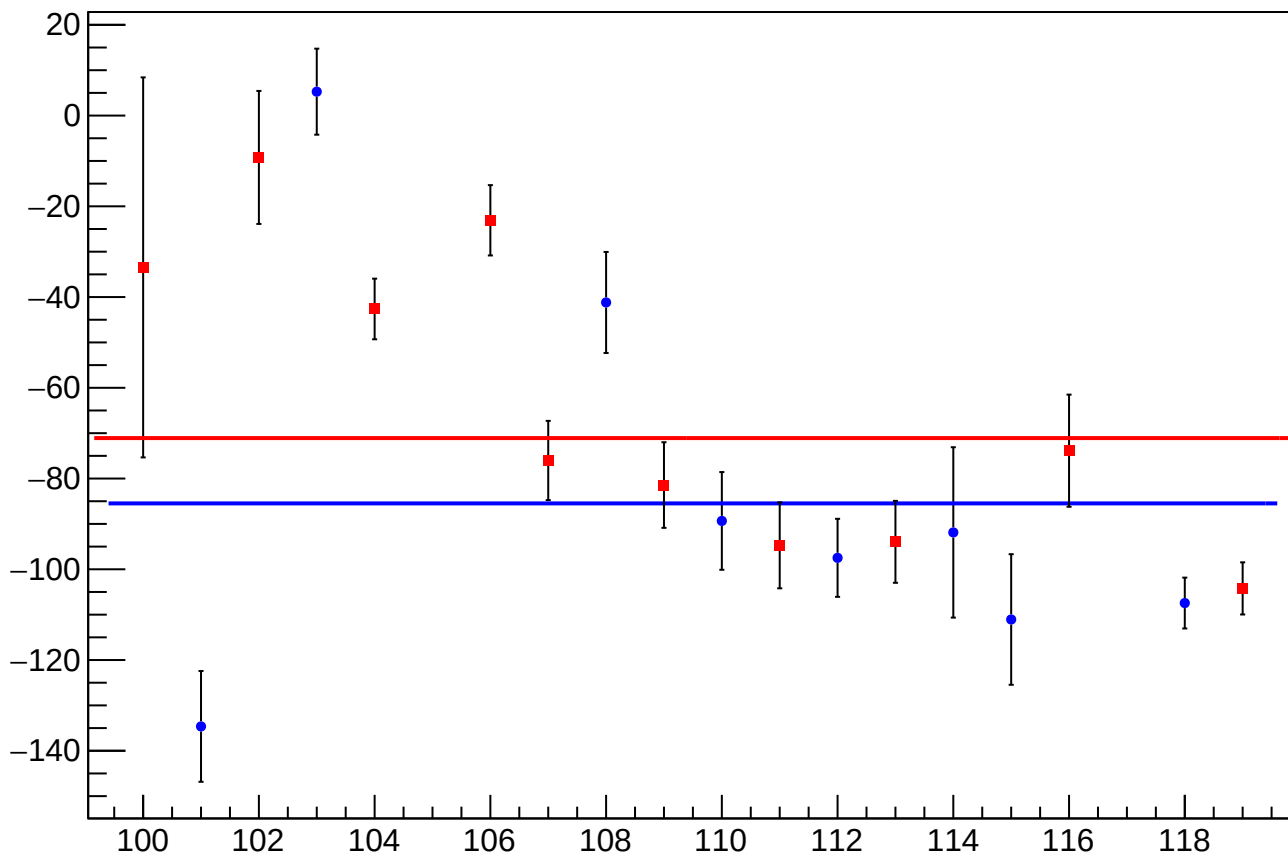
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-325.003 \pm 1.881$   $\chi^2/\text{NDF}$ : 6628.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -85.479+/-3.379  $\chi^2/\text{NDF}$ : 144.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -71.083+/-2.786  $\chi^2/\text{NDF}$ : 122.6/9

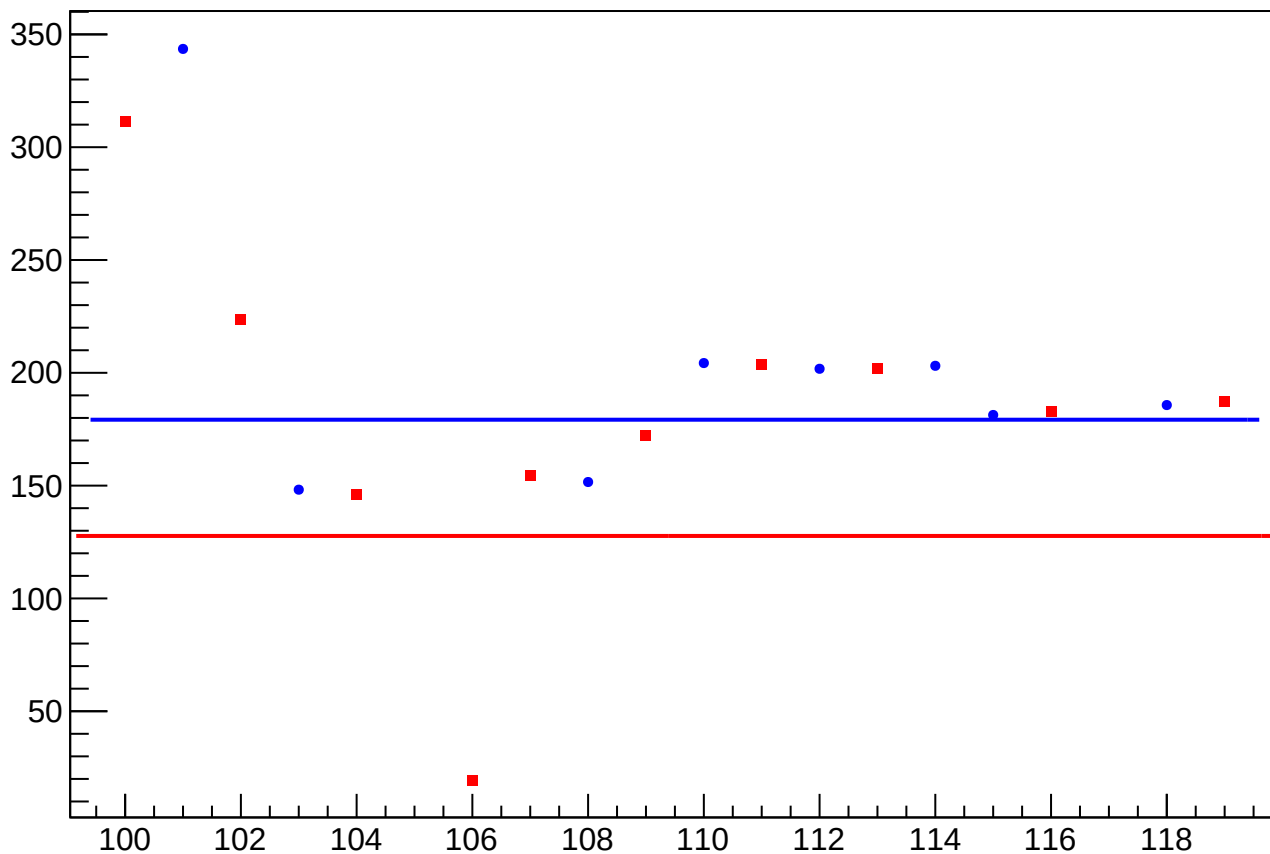
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -76.908+/-2.149  $\chi^2/\text{NDF}$ : 277.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 179.215+/-0.165  $\chi^2/\text{NDF}$ : 114719.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 127.696+/-0.129  $\chi^2/\text{NDF}$ : 356951.4/9

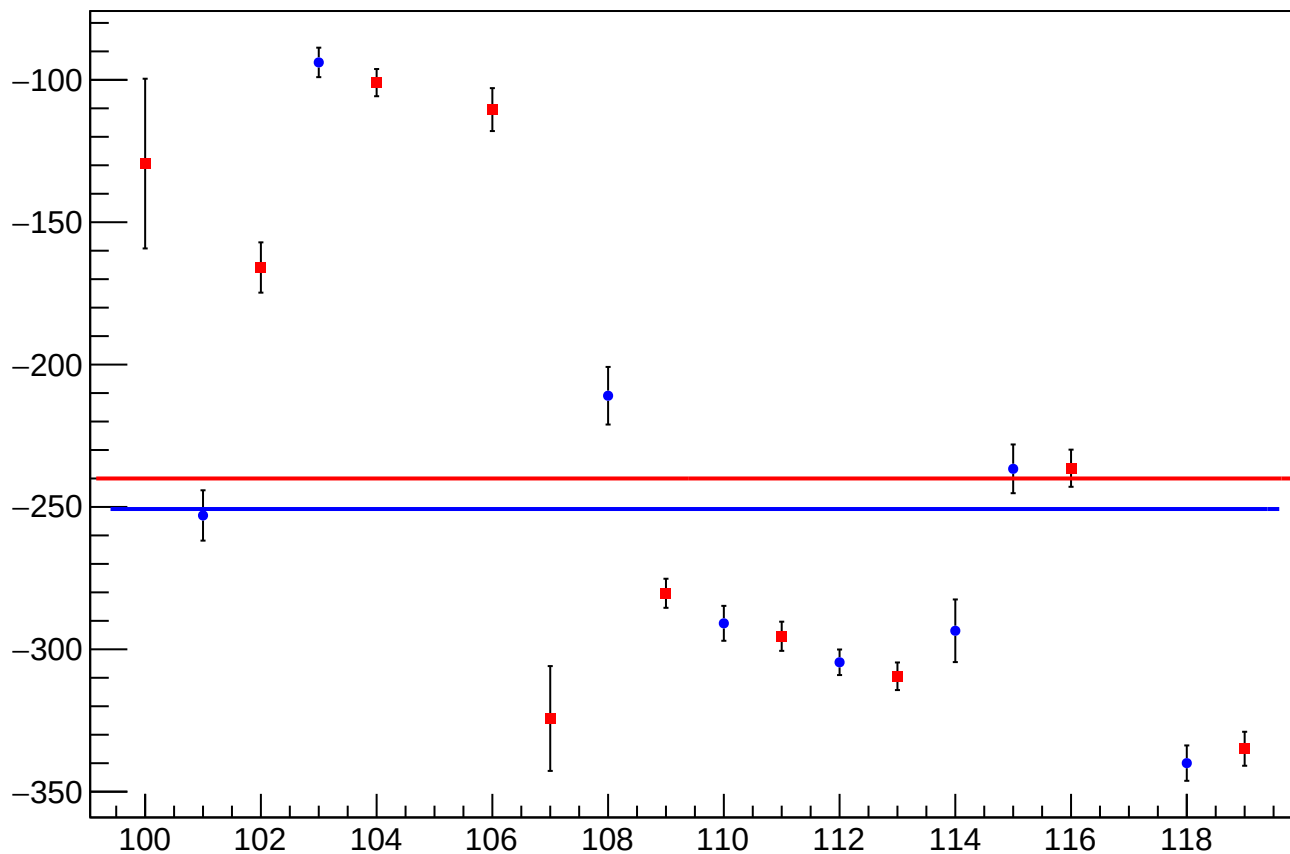
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 147.231+/-0.102  $\chi^2/\text{NDF}$ : 532137.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -250.726+/-2.331  $\chi^2$ /NDF: 1344.9/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -240.000+/-2.004  $\chi^2$ /NDF: 1885.2/9

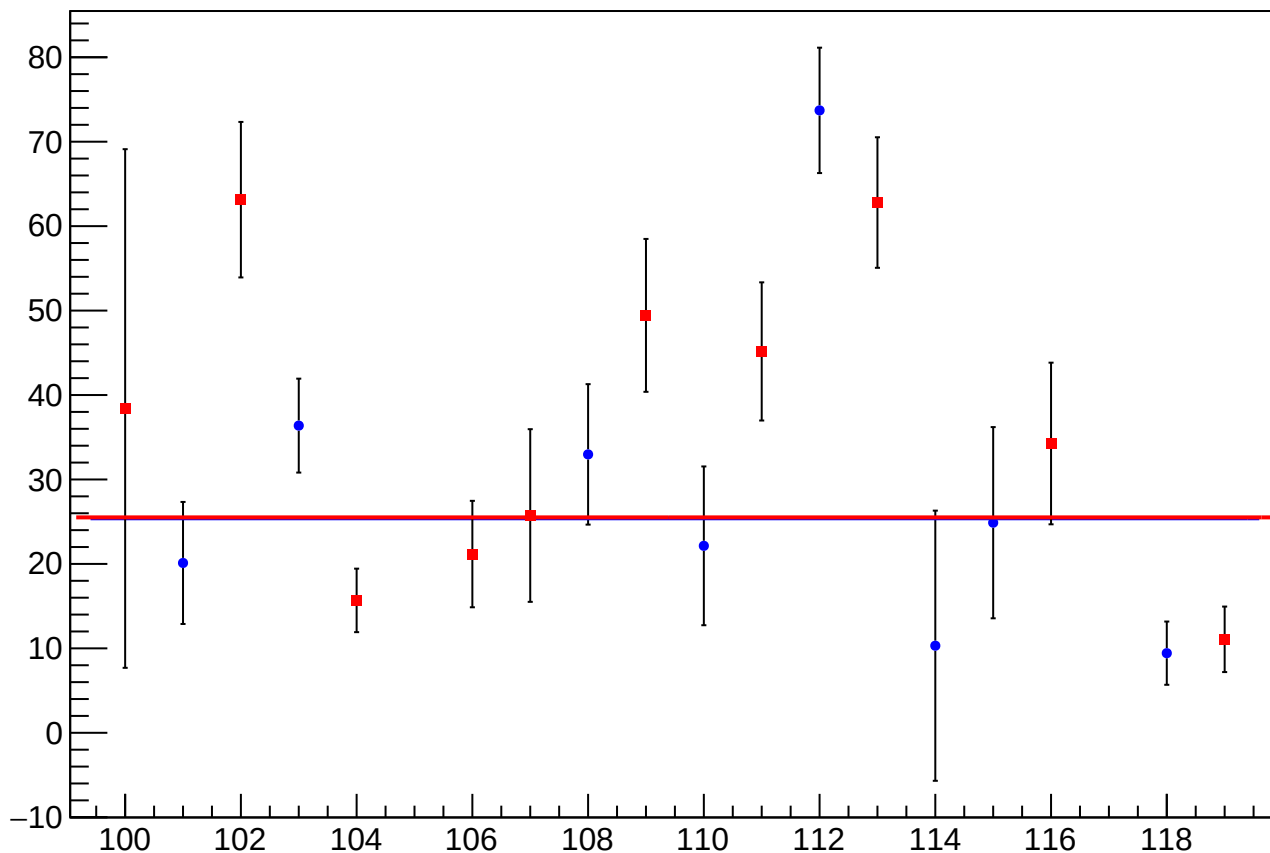
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -244.559+/-1.520  $\chi^2$ /NDF: 3242.3/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 25.406 $\pm$ 2.368  $\chi^2$ /NDF: 66.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 25.510 $\pm$ 2.043  $\chi^2$ /NDF: 74.9/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

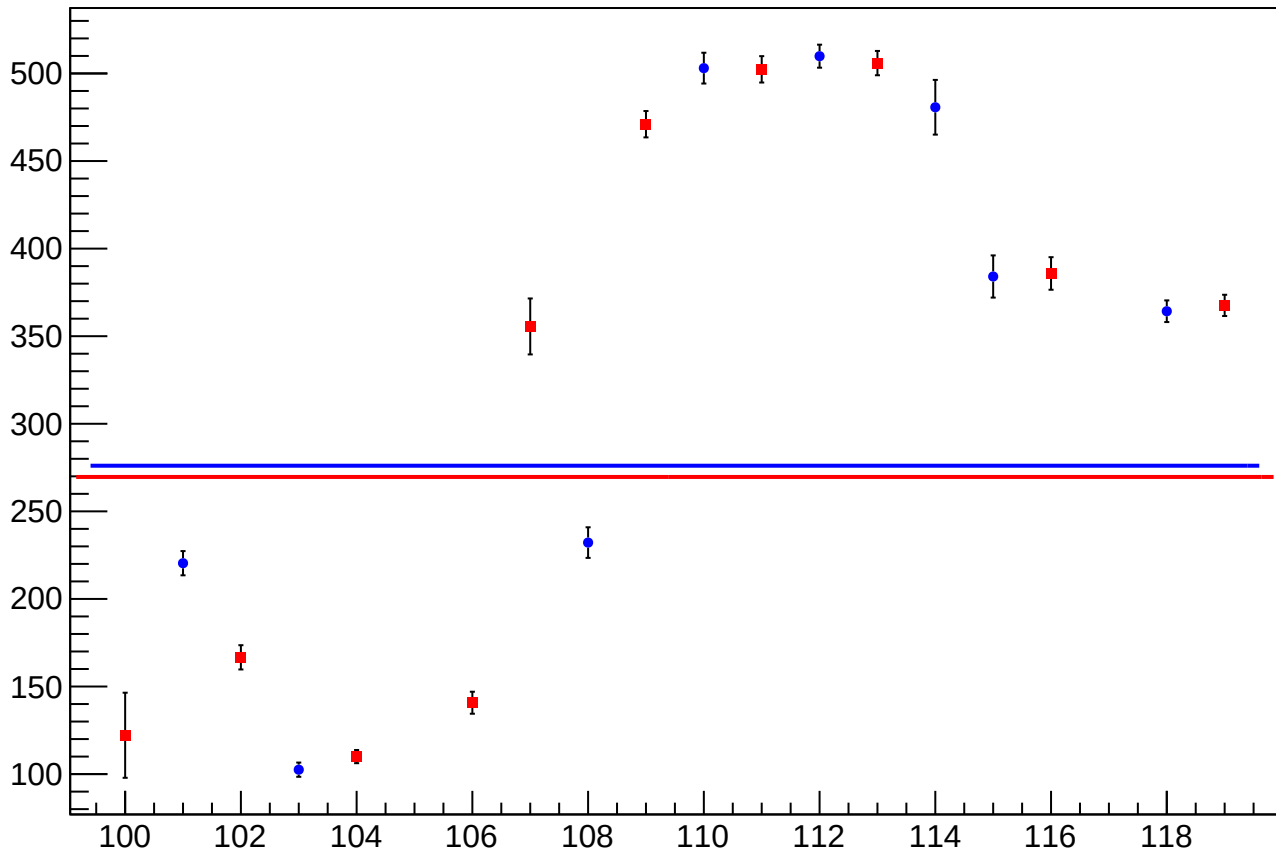
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.466 $\pm$ 1.547  $\chi^2$ /NDF: 141.7/17

- 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: 276.057+/-2.442  $\chi^2/\text{NDF}$ : 4300.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 269.639+/-2.147  $\chi^2/\text{NDF}$ : 5749.4/9

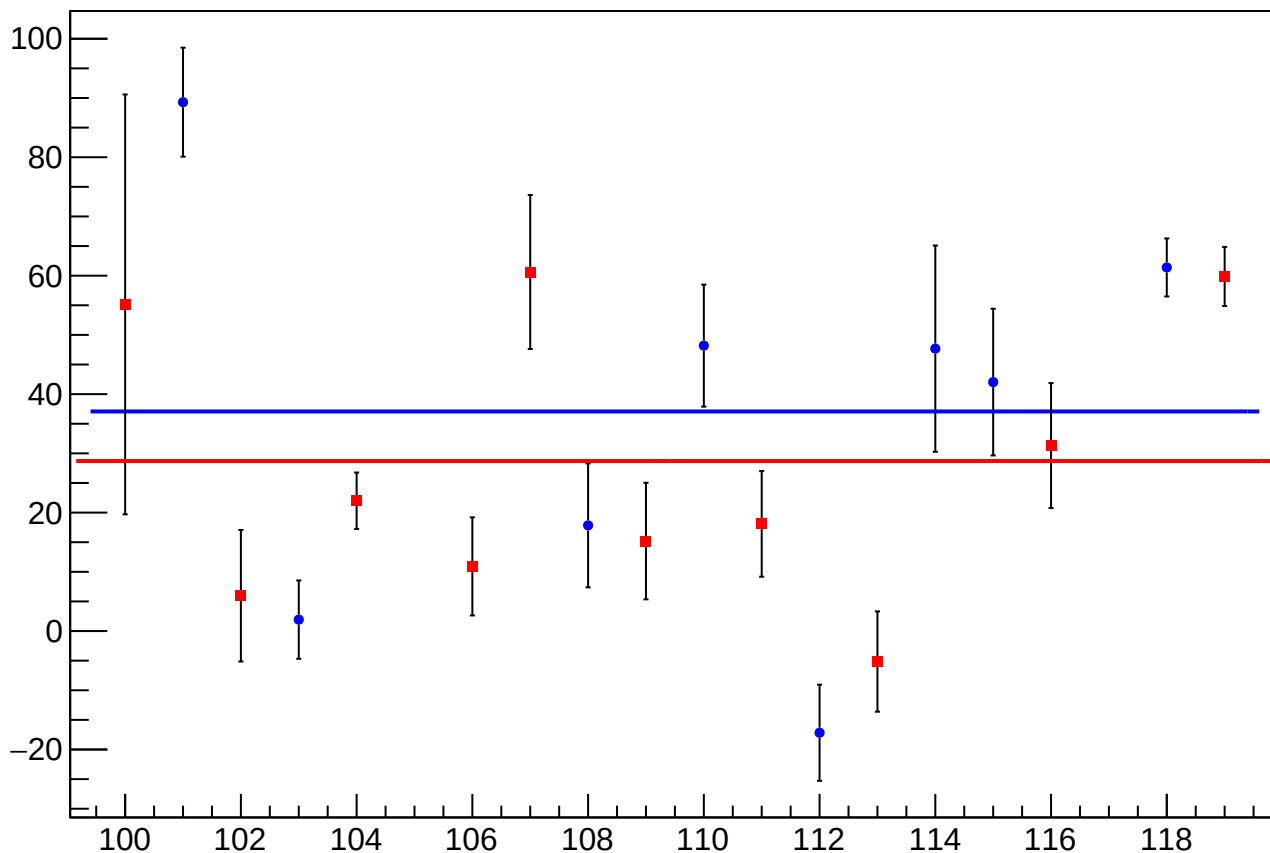
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 272.437+/-1.612  $\chi^2/\text{NDF}$ : 10053.5/17

- 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: 37.074+/-2.888  $\chi^2/\text{NDF}$ : 134.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.706+/-2.504  $\chi^2/\text{NDF}$ : 75.7/9

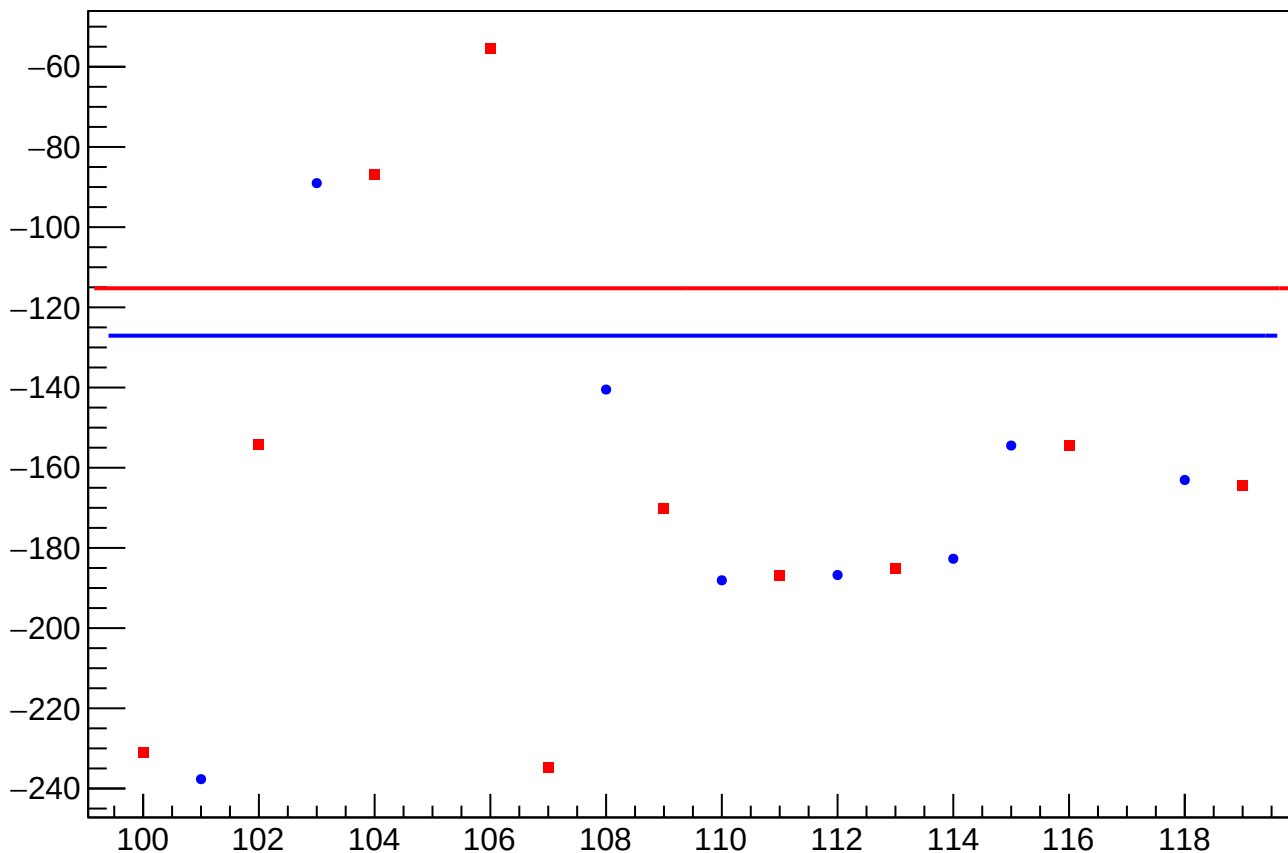
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.296+/-1.892  $\chi^2/\text{NDF}$ : 215.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -127.065+/-0.129  $\chi^2/\text{NDF}$ : 152879.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -115.242+/-0.115  $\chi^2/\text{NDF}$ : 194244.6/9

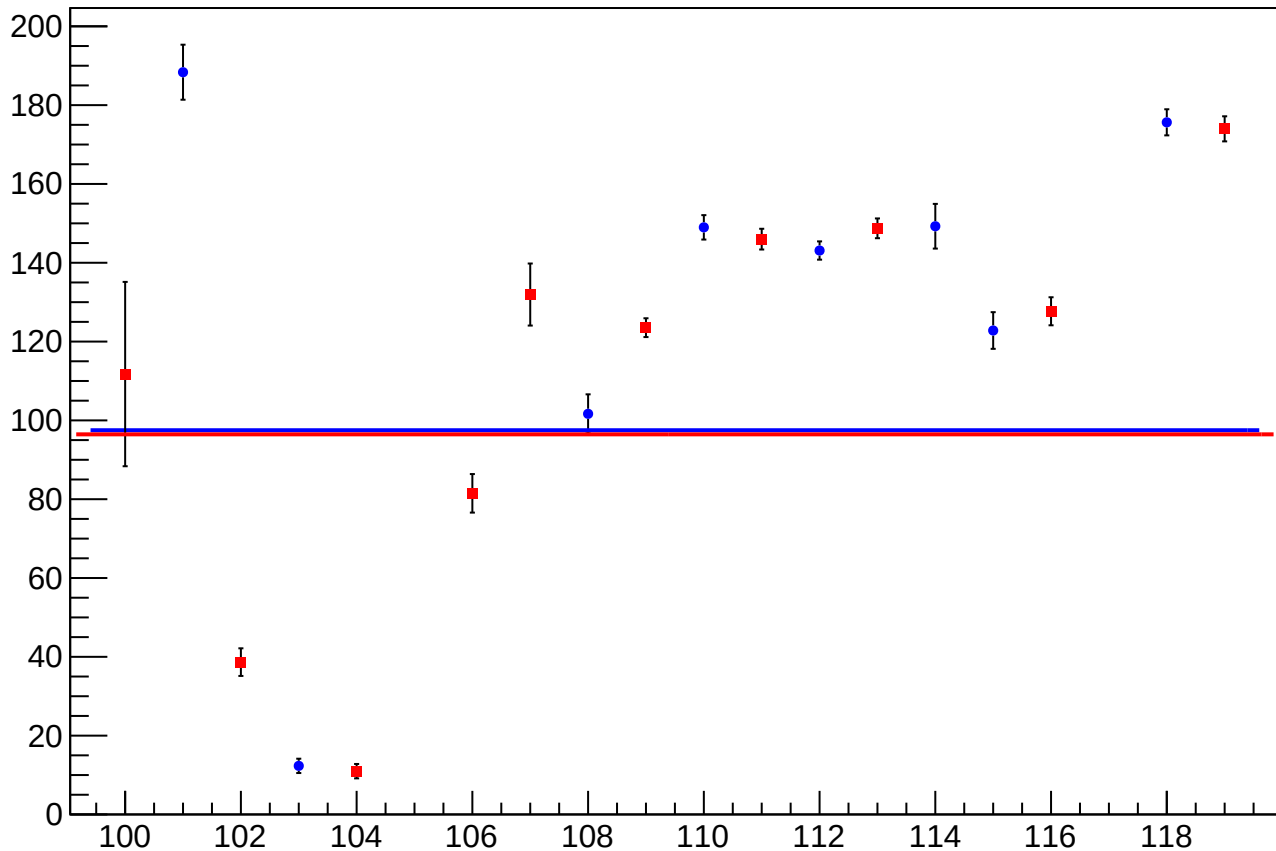
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -120.467+/-0.086  $\chi^2/\text{NDF}$ : 351828.6/17

- 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: 97.500+/-1.102  $\chi^2/\text{NDF}$ : 3699.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 96.457+/-0.955  $\chi^2/\text{NDF}$ : 4078.6/9

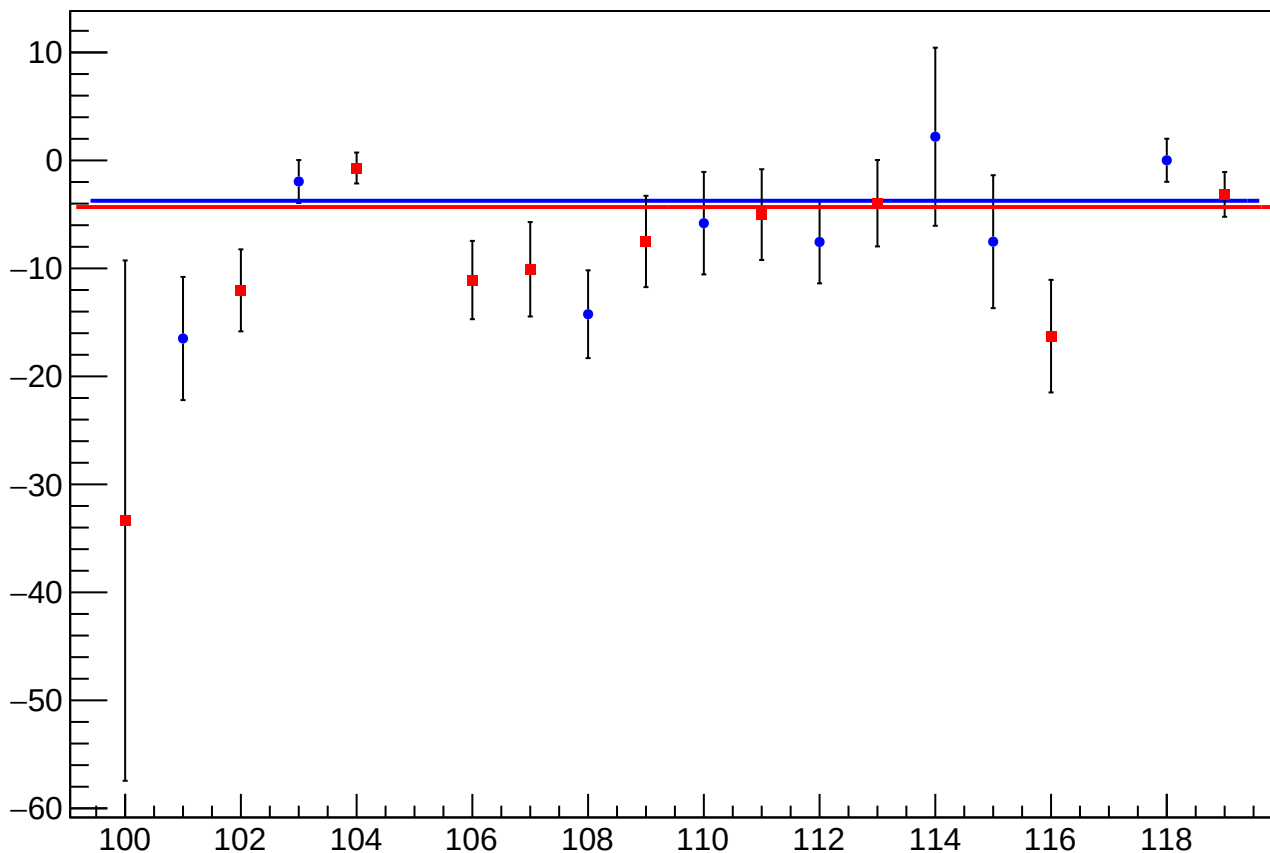
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 96.904+/-0.722  $\chi^2/\text{NDF}$ : 7778.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -3.737 $\pm$ 1.156  $\chi^2$ /NDF: 18.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4.319 $\pm$ 0.940  $\chi^2$ /NDF: 23.3/9

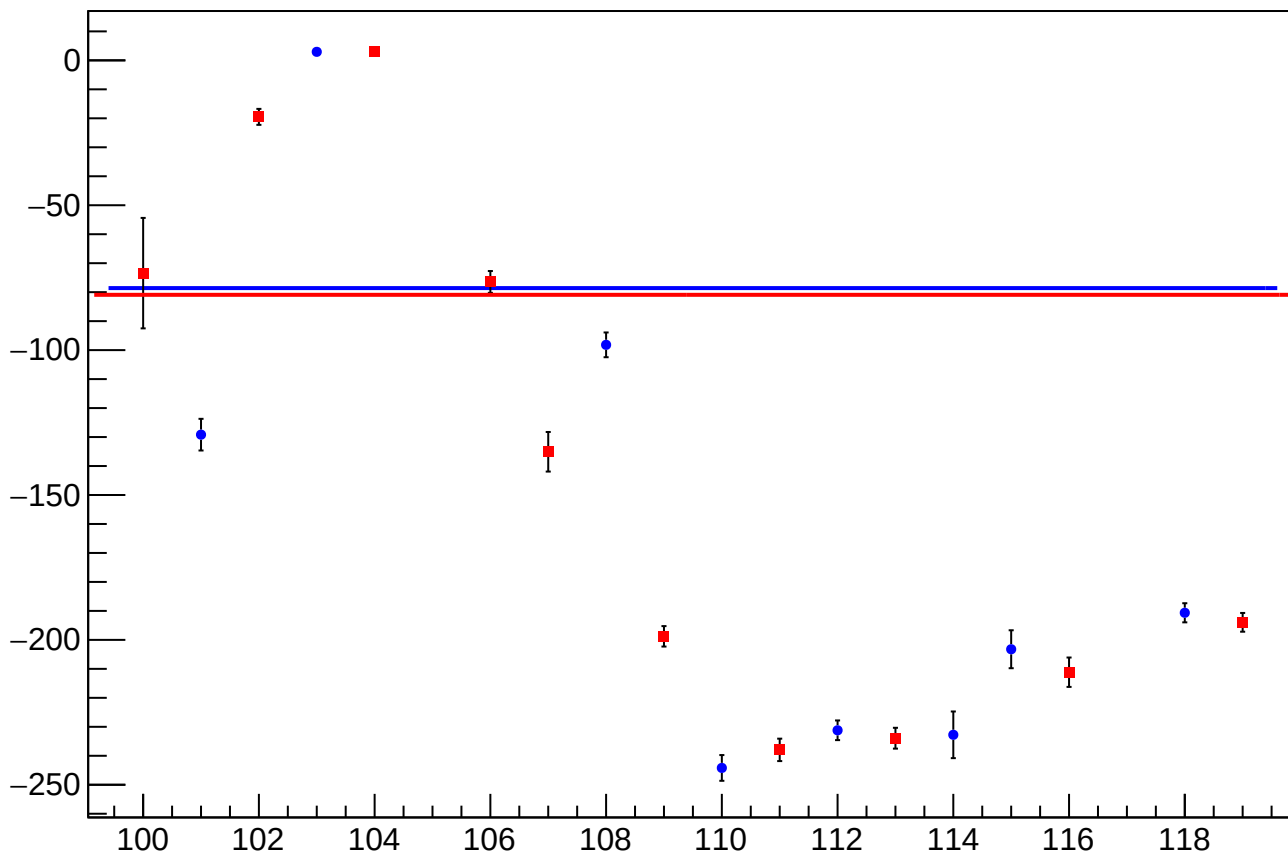
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -4.088 $\pm$ 0.729  $\chi^2$ /NDF: 41.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -78.594 $\pm$ 1.087  $\chi^2$ /NDF: 8662.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -80.915 $\pm$ 0.968  $\chi^2$ /NDF: 10403.2/9

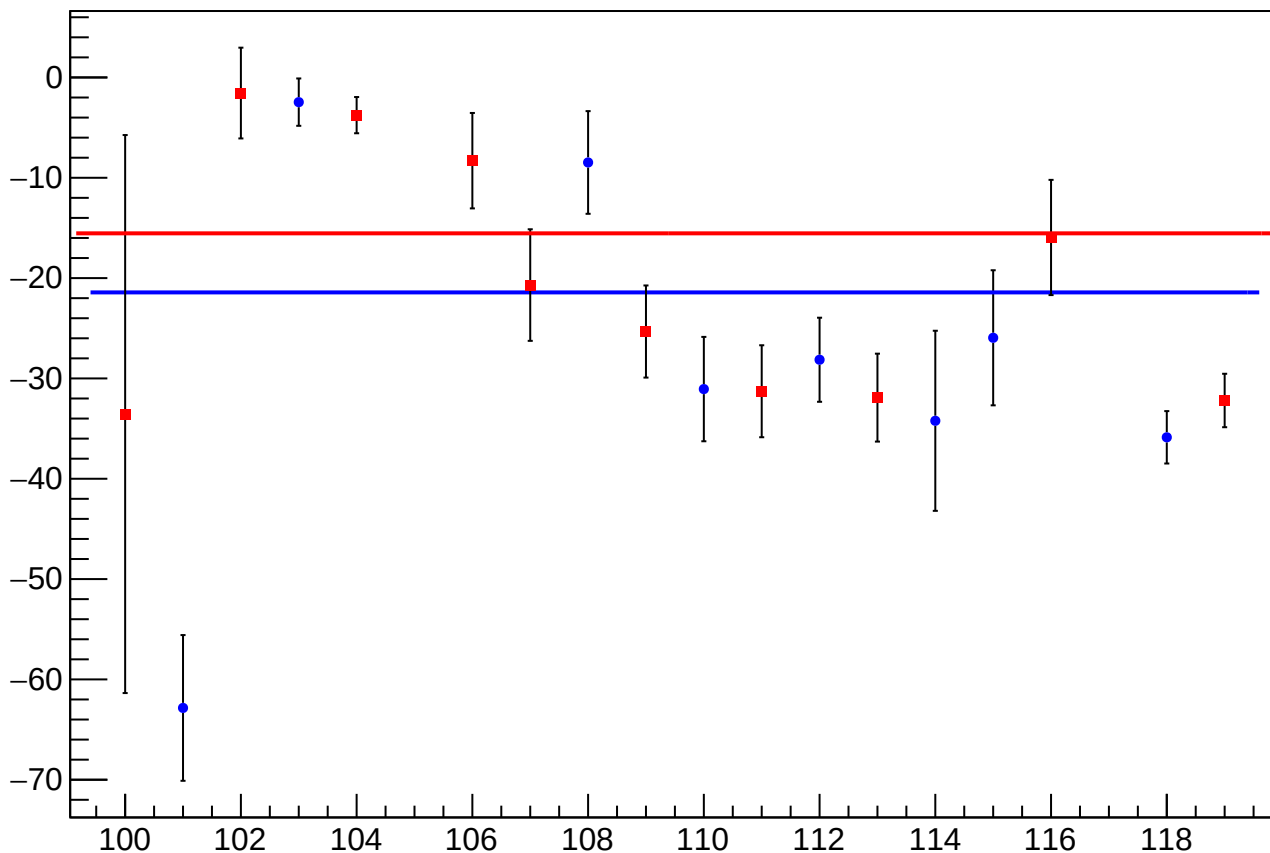
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -79.888 $\pm$ 0.723  $\chi^2$ /NDF: 19068.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -21.426 $\pm$ 1.398  $\chi^2$ /NDF: 142.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -15.538 $\pm$ 1.153  $\chi^2$ /NDF: 125.1/9

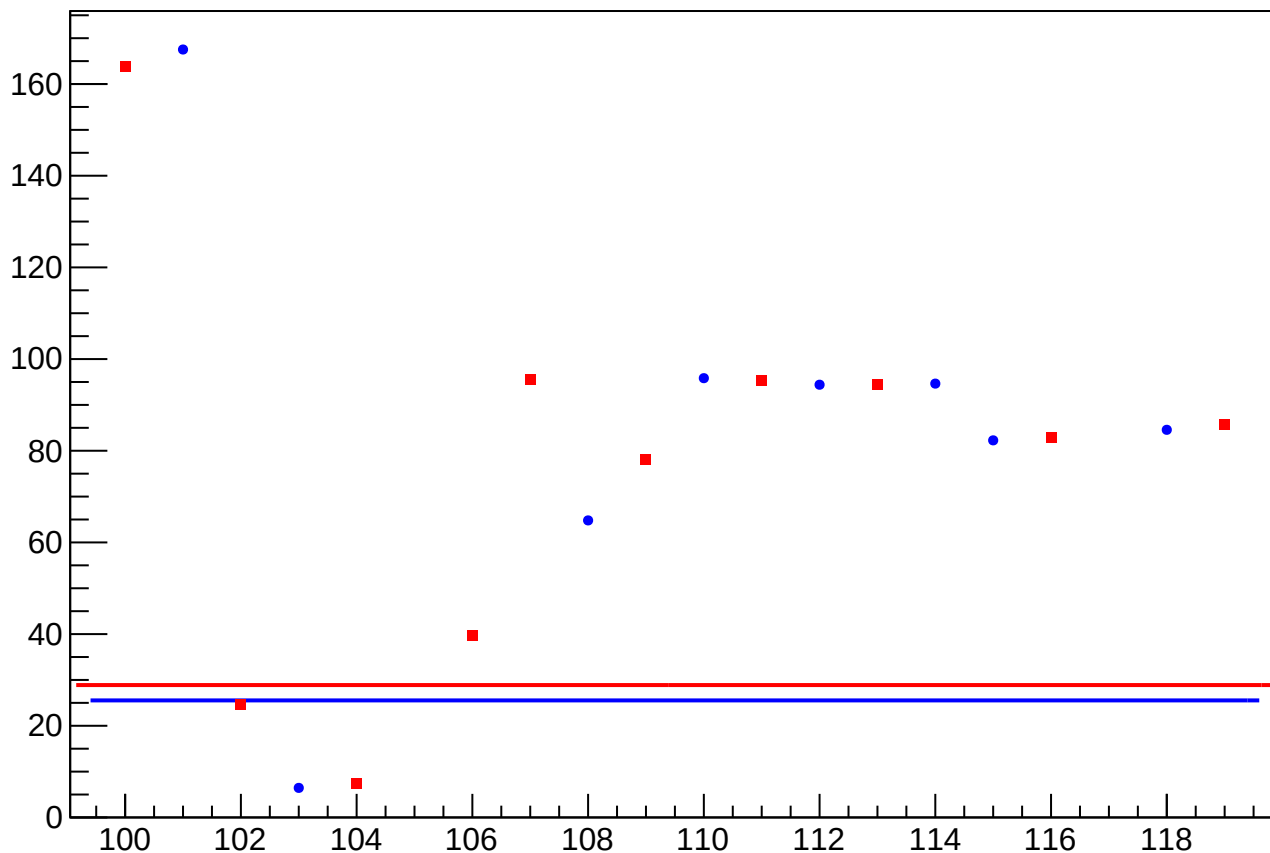
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.922 $\pm$ 0.890  $\chi^2$ /NDF: 278.3/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 25.535+/-0.052  $\chi^2/\text{NDF}$ : 526589.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.882+/-0.051  $\chi^2/\text{NDF}$ : 394642.6/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

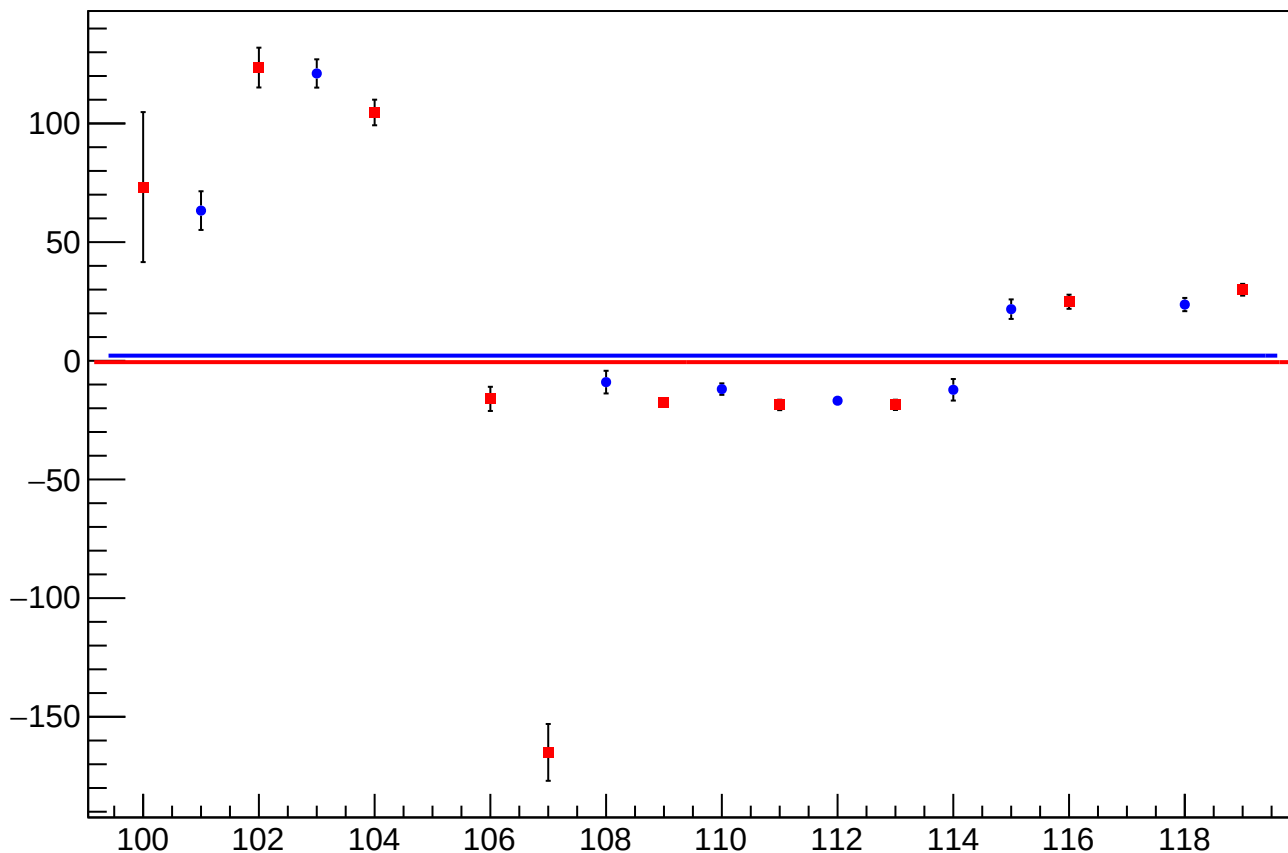
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.258+/-0.036  $\chi^2/\text{NDF}$ : 923363.2/17

- 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: 2.173 $\pm$ 1.166  $\chi^2$ /NDF: 672.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.565 $\pm$ 0.989  $\chi^2$ /NDF: 1231.7/9

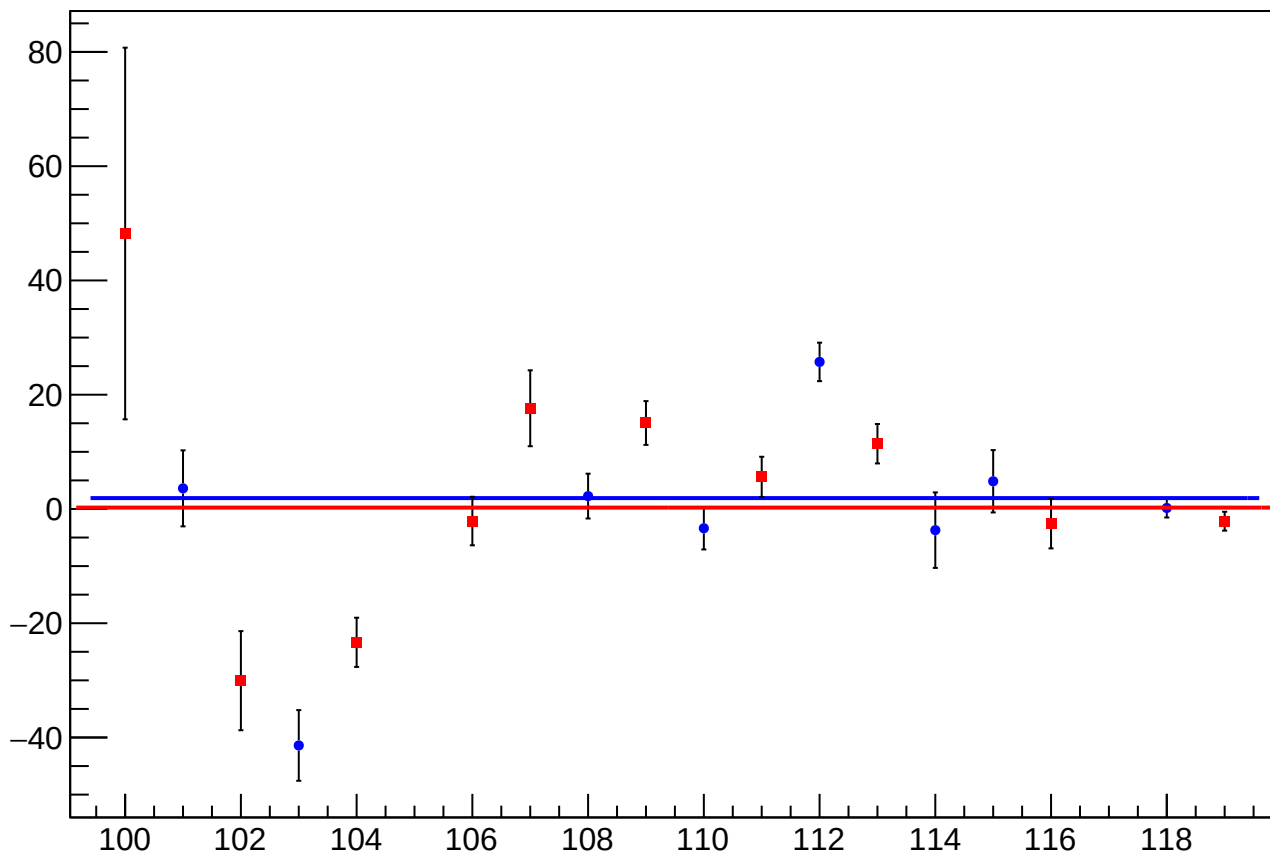
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.580 $\pm$ 0.754  $\chi^2$ /NDF: 1907.3/17

- 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: 1.904+/-1.205  $\chi^2/\text{NDF}$ : 103.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.241+/-1.120  $\chi^2/\text{NDF}$ : 81.8/9

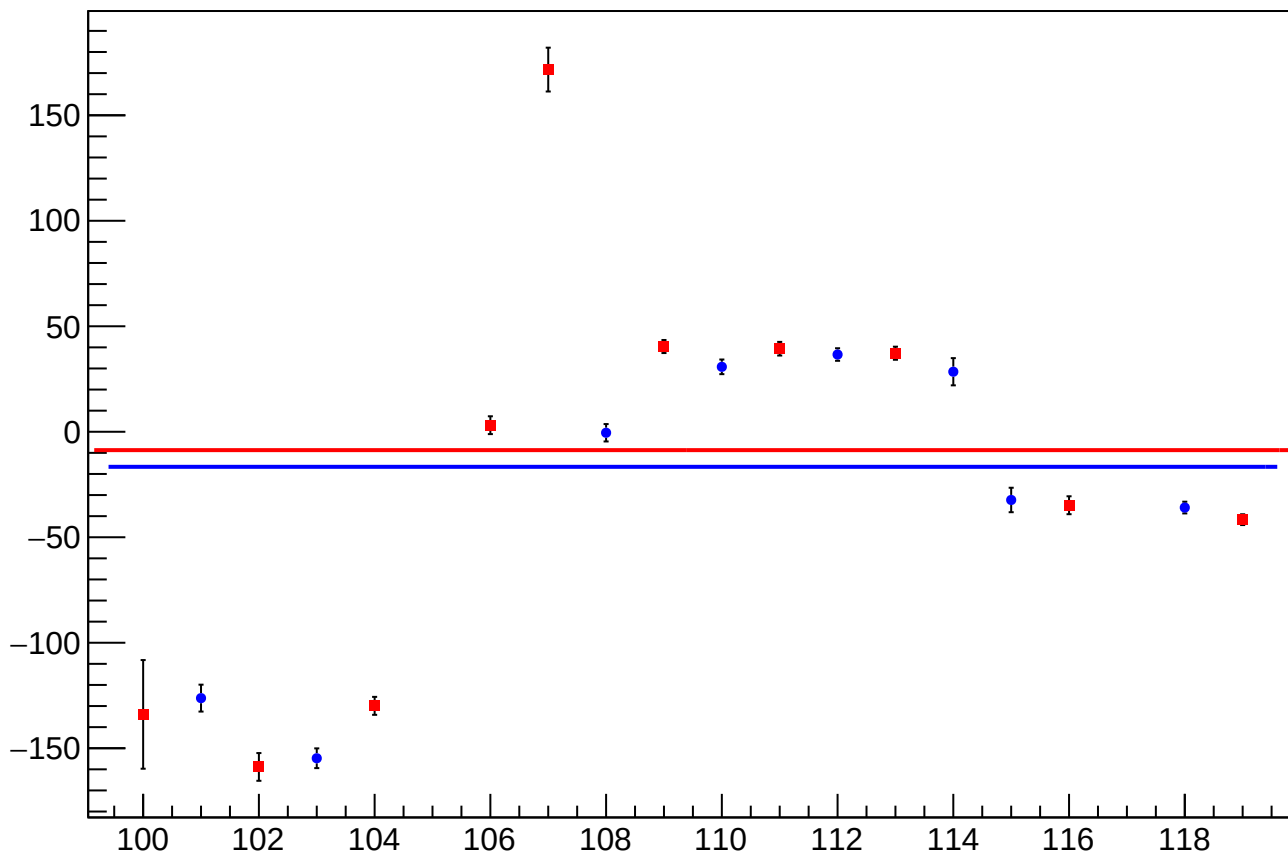
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.011+/-0.820  $\chi^2/\text{NDF}$ : 186.0/17

- 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: -16.615 $\pm$ 1.402  $\chi^2$ /NDF: 1793.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.707 $\pm$ 1.233  $\chi^2$ /NDF: 2562.3/9

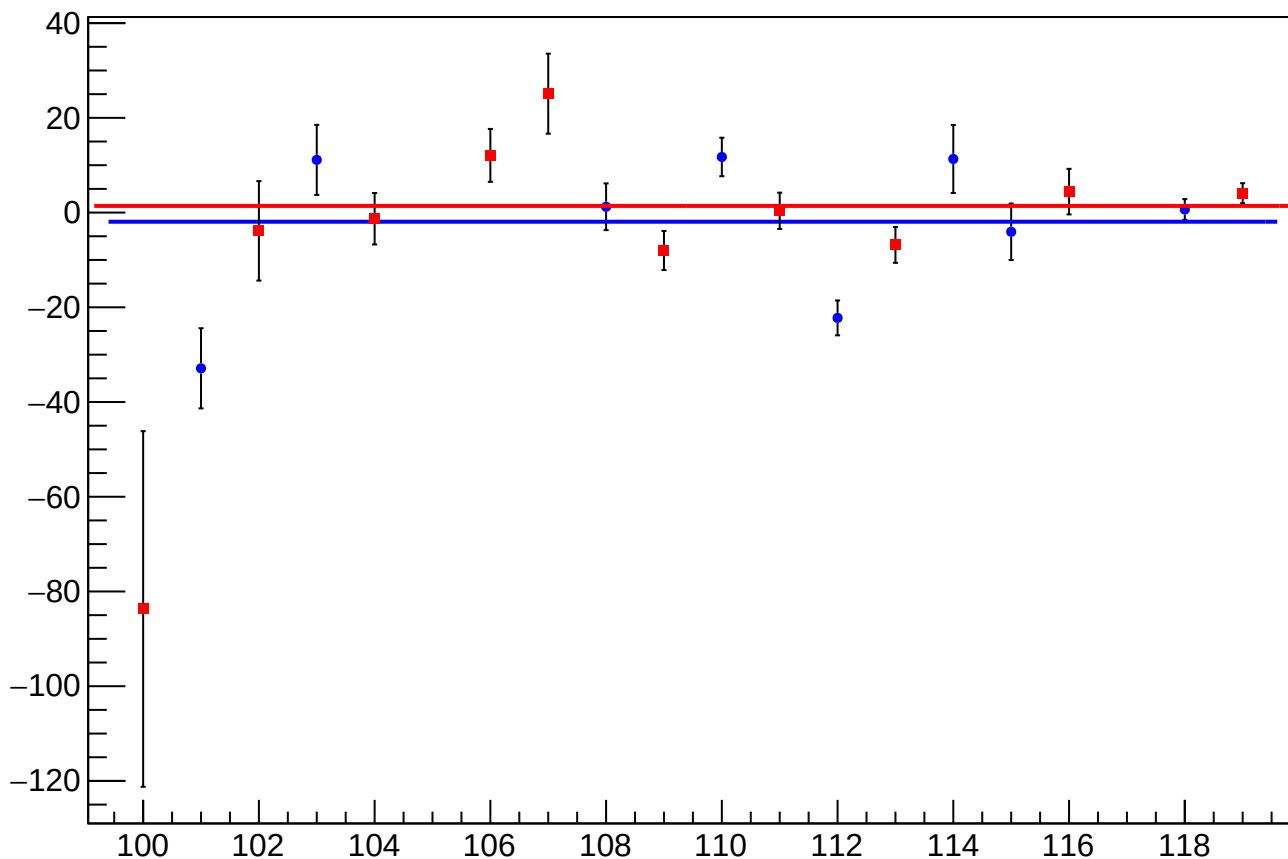
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -12.155 $\pm$ 0.926  $\chi^2$ /NDF: 4373.7/17

- 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: -1.932+/-1.467  $\chi^2/\text{NDF}$ : 63.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.408+/-1.345  $\chi^2/\text{NDF}$ : 29.2/9

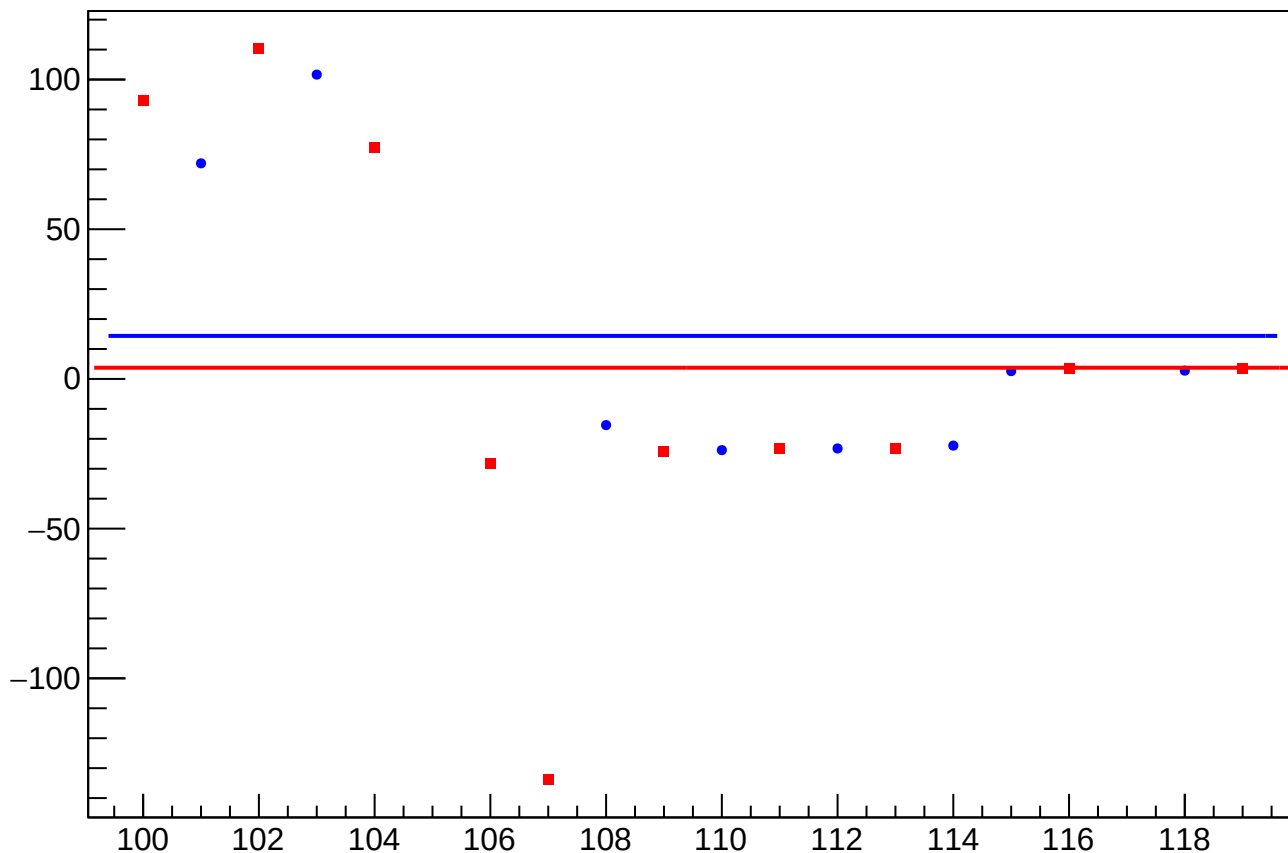
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.118+/-0.992  $\chi^2/\text{NDF}$ : 95.6/17

- 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: 14.371+/-0.088  $\chi^2/\text{NDF}$ : 305274.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.738+/-0.080  $\chi^2/\text{NDF}$ : 446098.2/9

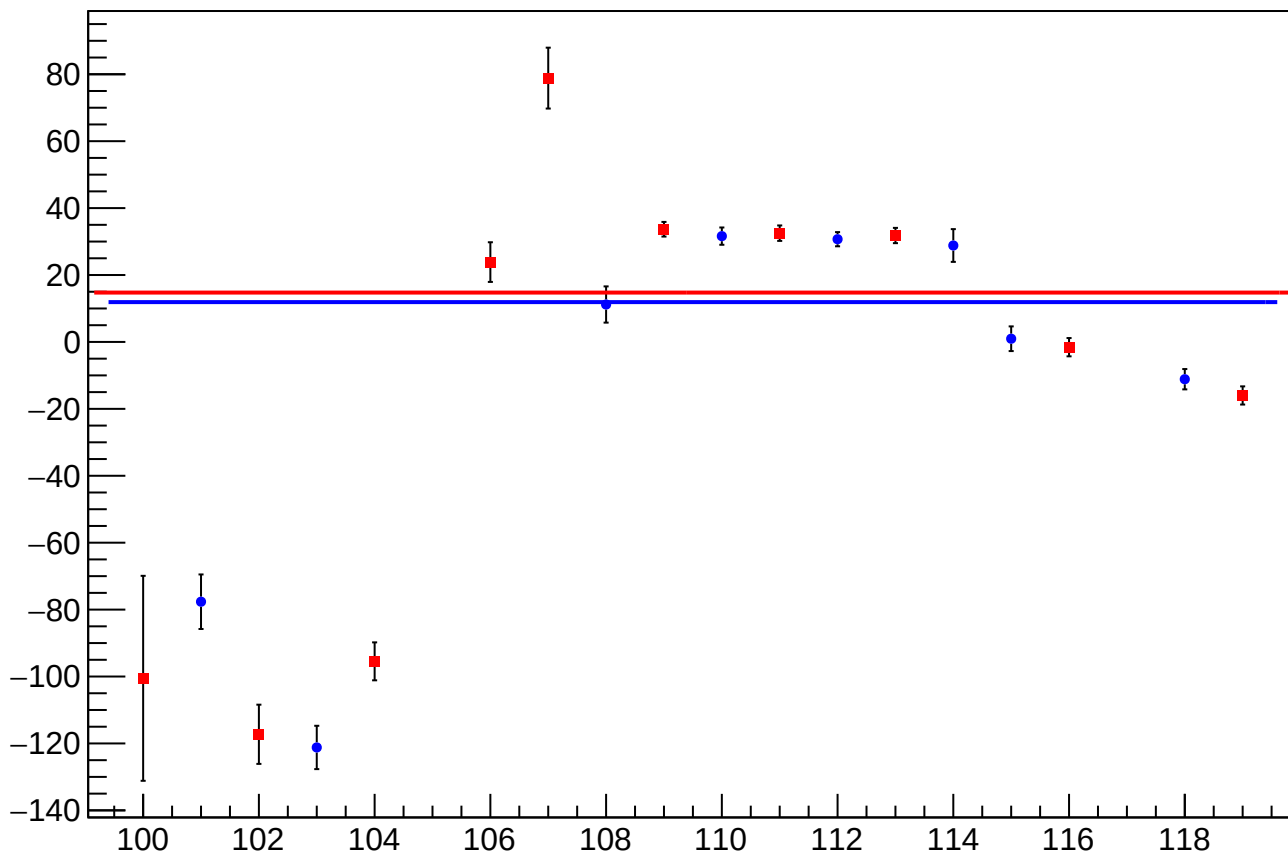
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8.559+/-0.059  $\chi^2/\text{NDF}$ : 759381.1/17

- 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: 11.903+/-1.222  $\chi^2$ /NDF: 758.6/7

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.752+/-1.030  $\chi^2$ /NDF: 1019.9/9

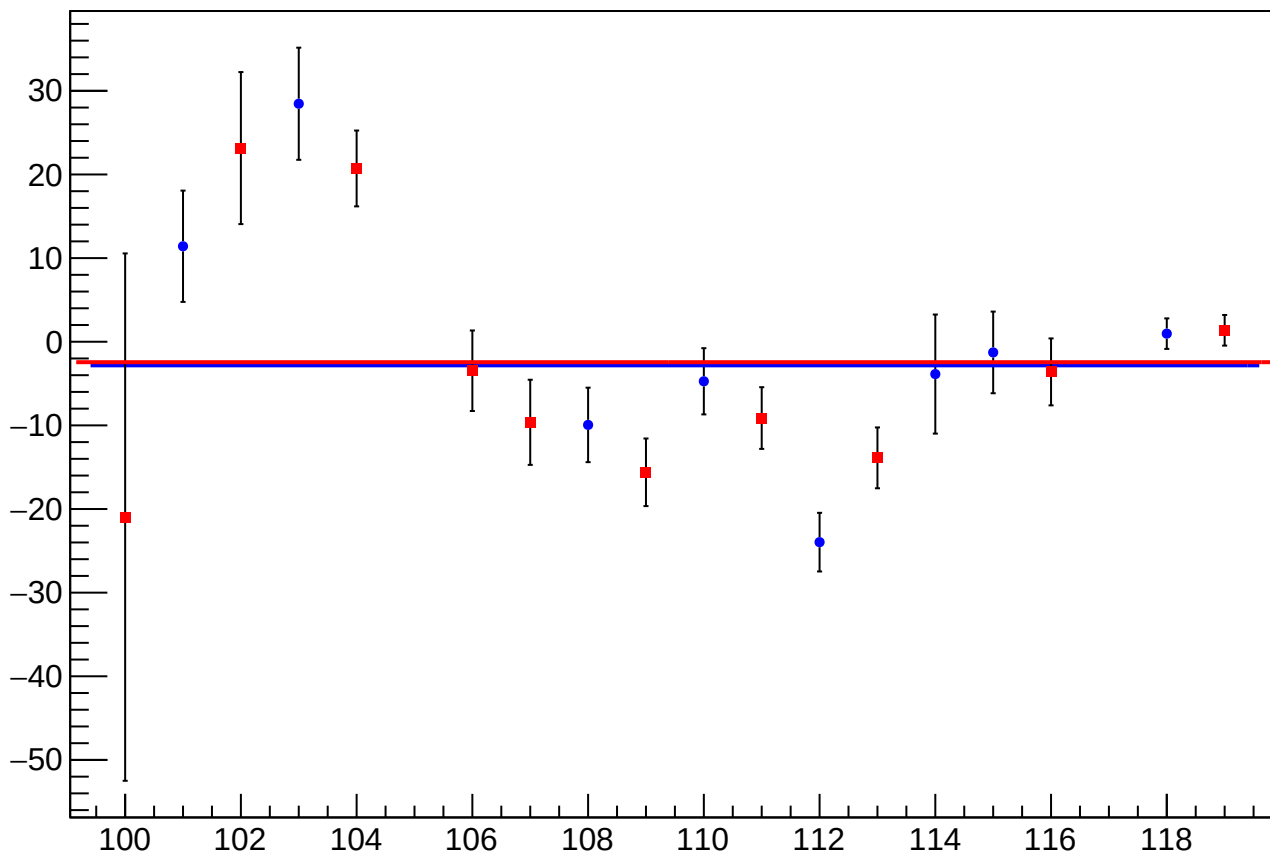
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 13.570+/-0.787  $\chi^2$ /NDF: 1781.7/17

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -2.821+/-1.288  $\chi^2/\text{NDF}$ : 69.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.445+/-1.183  $\chi^2/\text{NDF}$ : 64.6/9

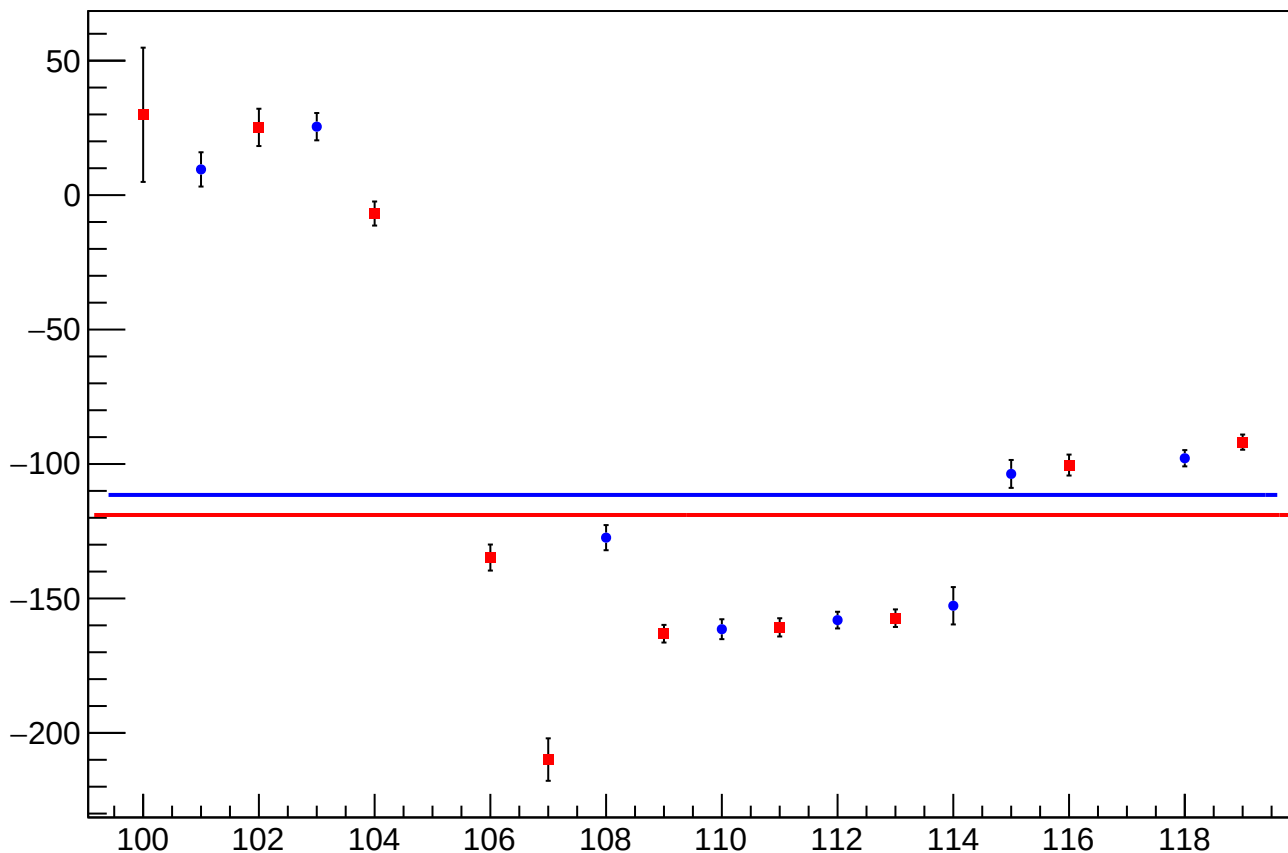
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.617+/-0.871  $\chi^2/\text{NDF}$ : 134.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -111.496+/-1.485  $\chi^2/\text{NDF}$ : 1564.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -118.956+/-1.295  $\chi^2/\text{NDF}$ : 1824.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

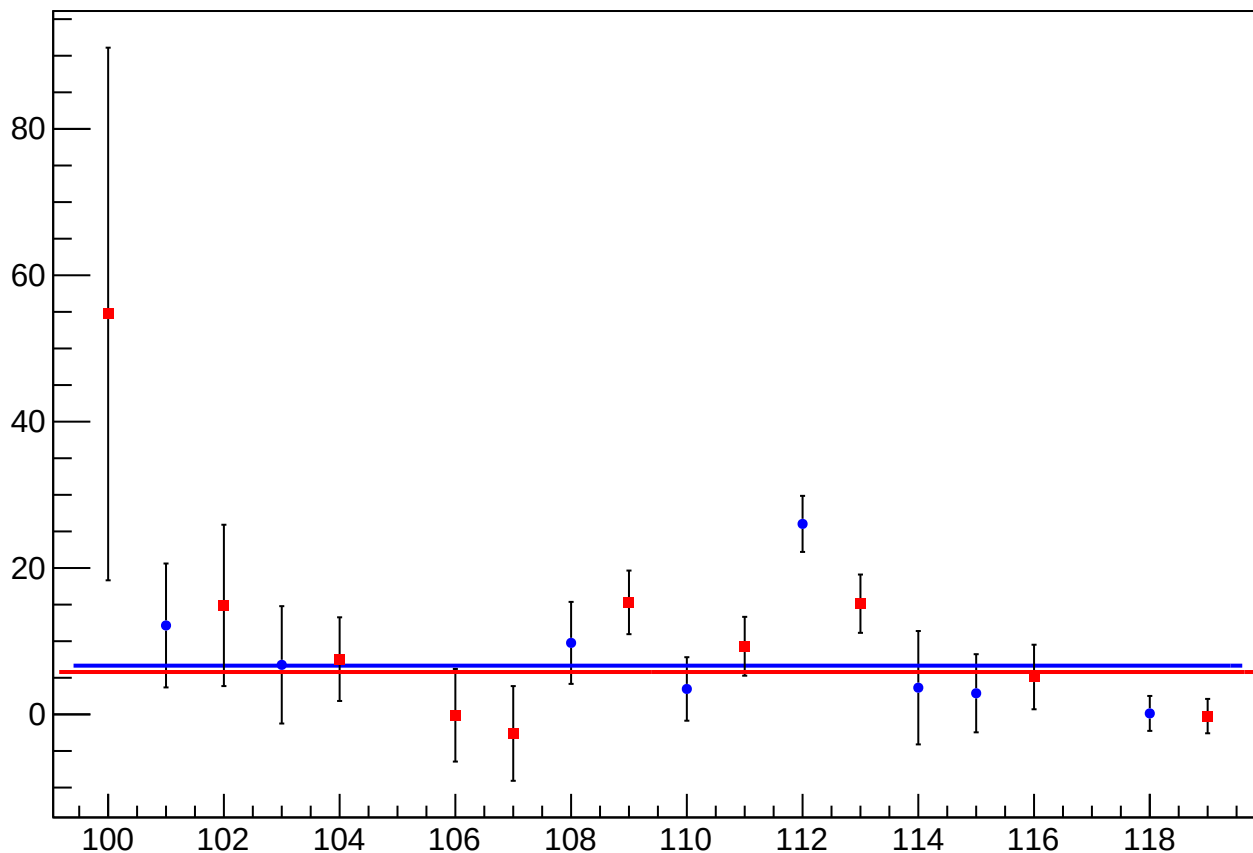
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -115.733+/-0.976  $\chi^2/\text{NDF}$ : 3403.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 6.658+/-1.562  $\chi^2/\text{NDF}$ : 35.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.790+/-1.416  $\chi^2/\text{NDF}$ : 22.8/9

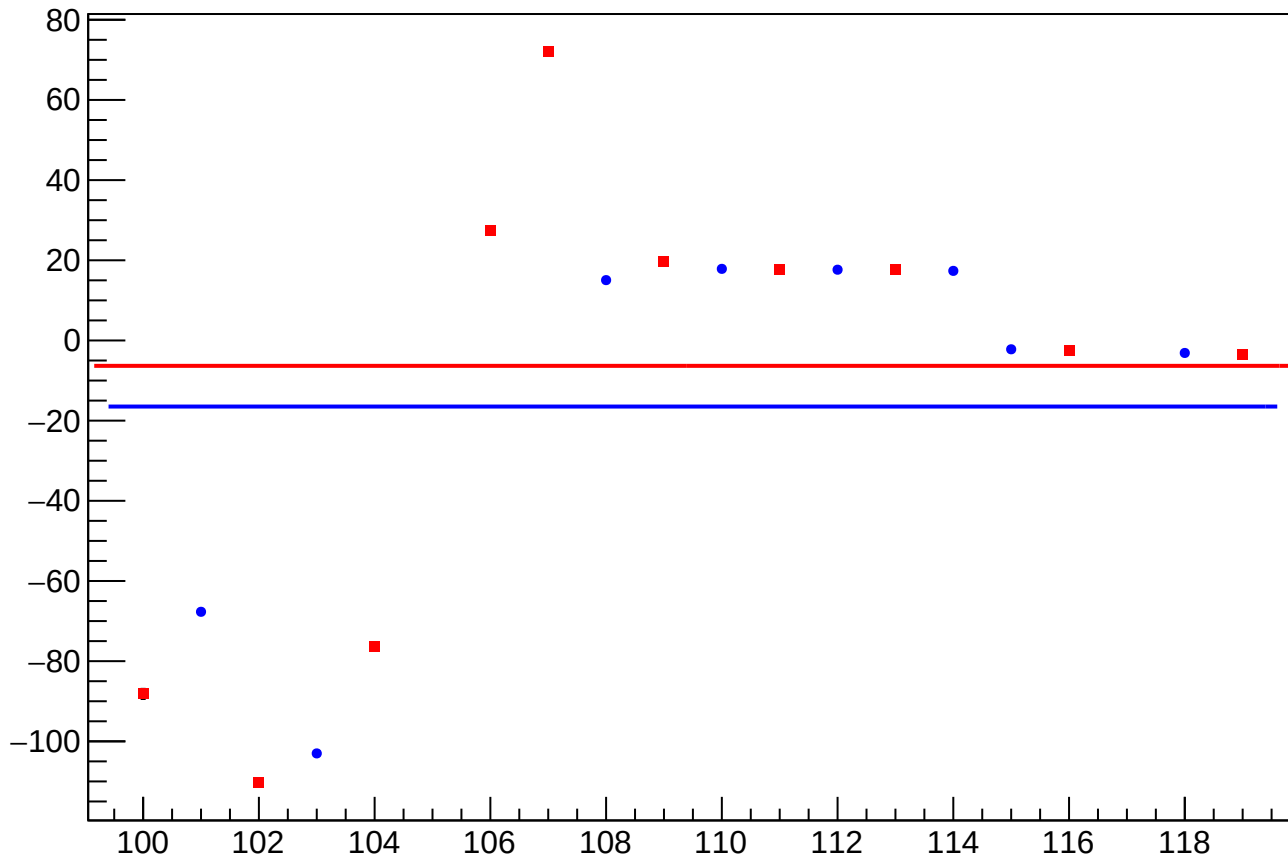
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.182+/-1.049  $\chi^2/\text{NDF}$ : 57.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-16.483 \pm 0.095$   $\chi^2/\text{NDF}$ : 251113.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-6.331 \pm 0.084$   $\chi^2/\text{NDF}$ : 338748.9/9

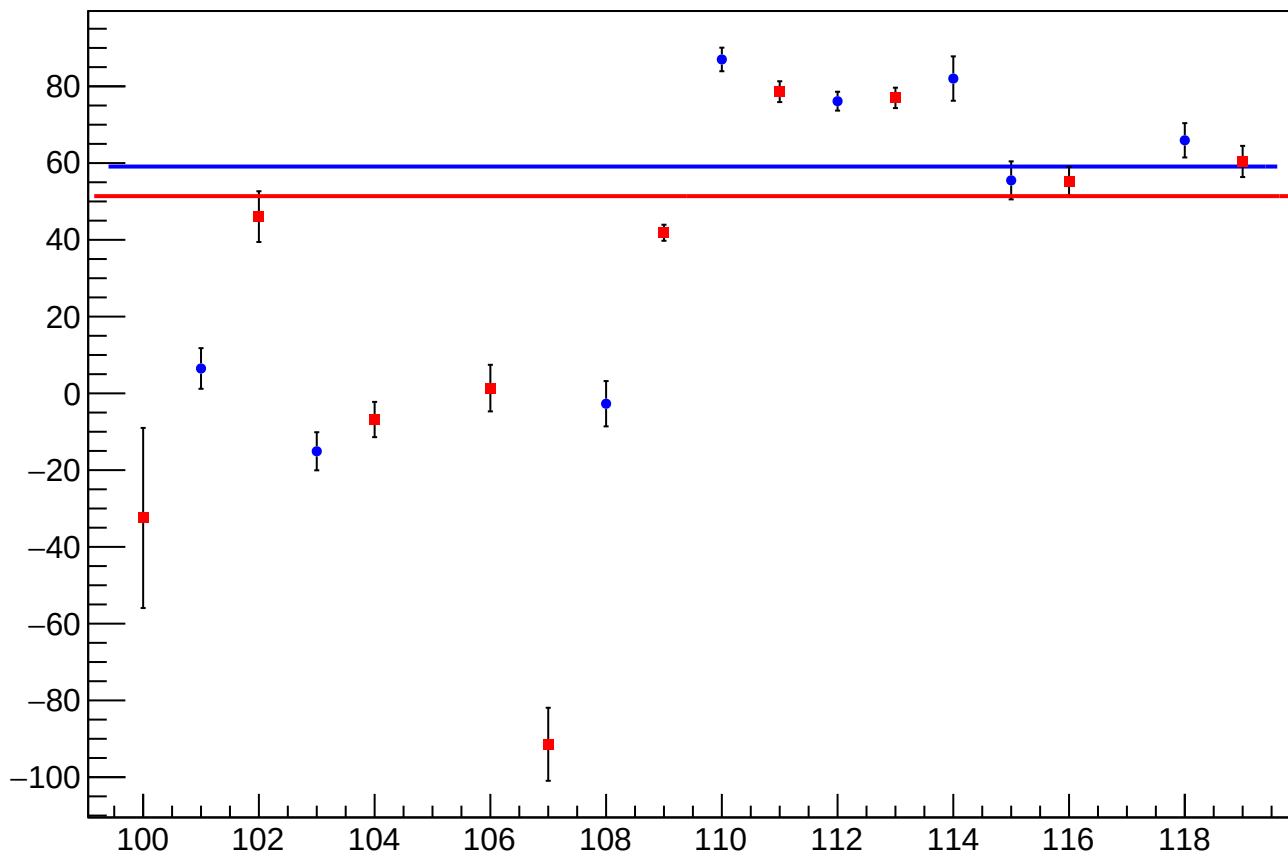
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-10.828 \pm 0.063$   $\chi^2/\text{NDF}$ : 596289.8/17

- 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: 59.095 $\pm$ 1.418  $\chi^2$ /NDF: 580.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 51.387 $\pm$ 1.156  $\chi^2$ /NDF: 687.2/9

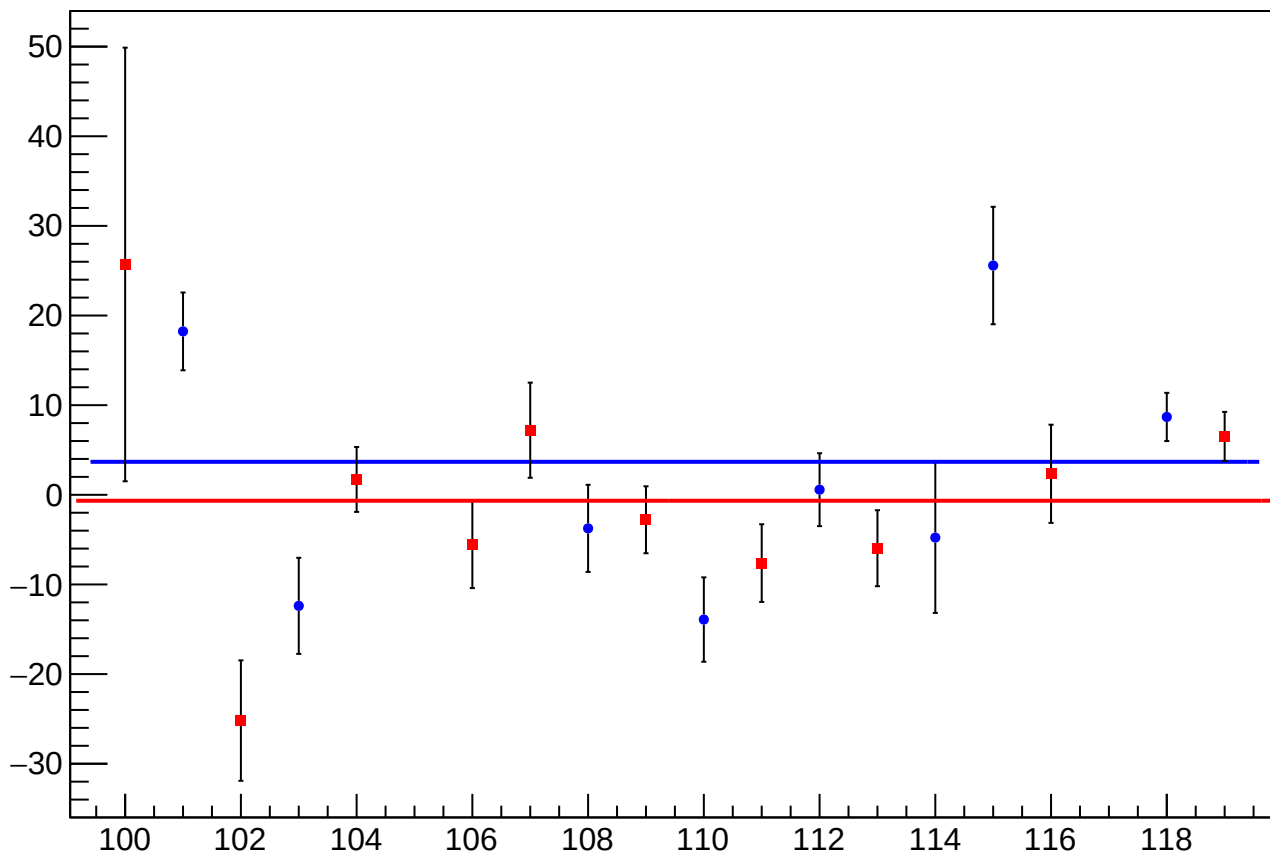
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 54.464 $\pm$ 0.896  $\chi^2$ /NDF: 1285.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 3.681+/-1.559  $\chi^2/\text{NDF}$ : 52.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.661+/-1.380  $\chi^2/\text{NDF}$ : 29.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

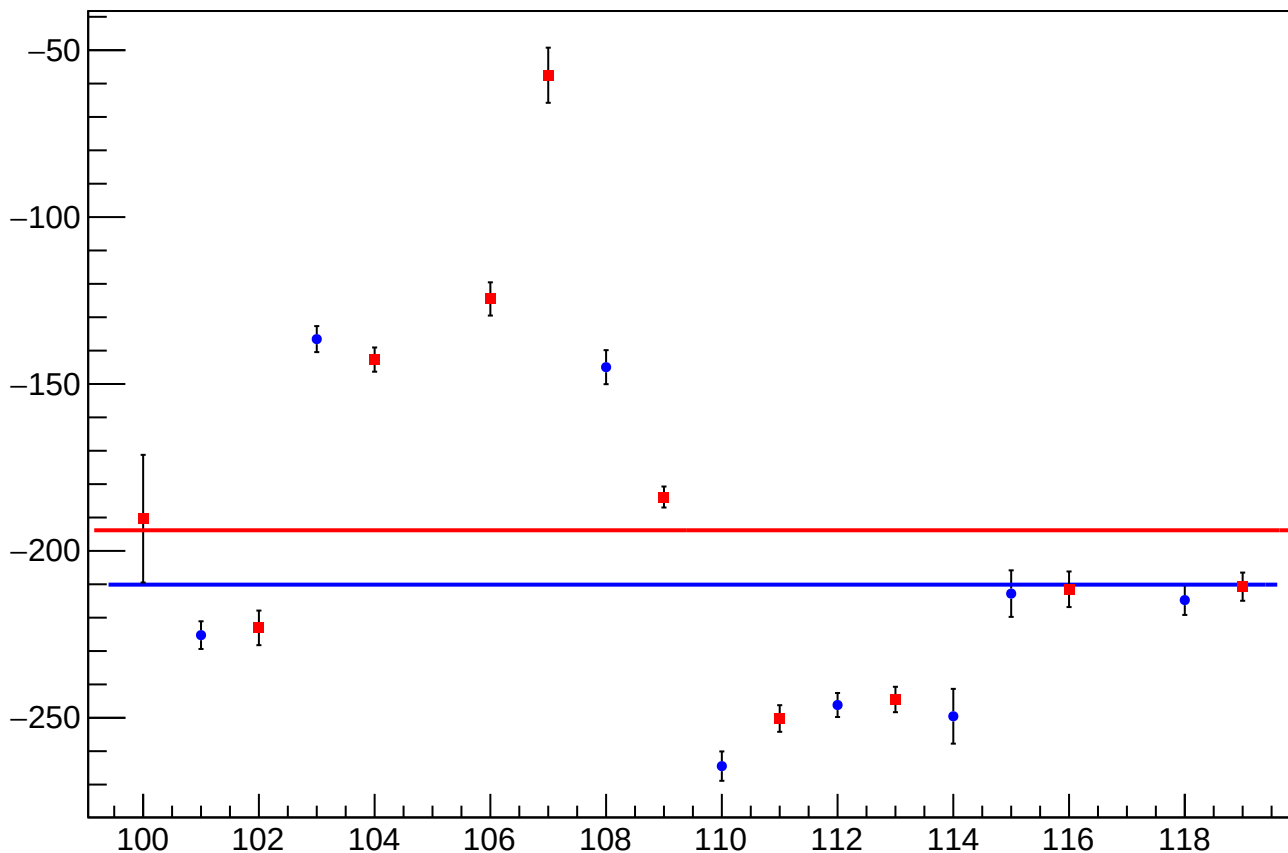
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.248+/-1.033  $\chi^2/\text{NDF}$ : 86.9/17

- 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: -210.108+/-1.628  $\chi^2/\text{NDF}$ : 810.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -193.822+/-1.421  $\chi^2/\text{NDF}$ : 1111.6/9

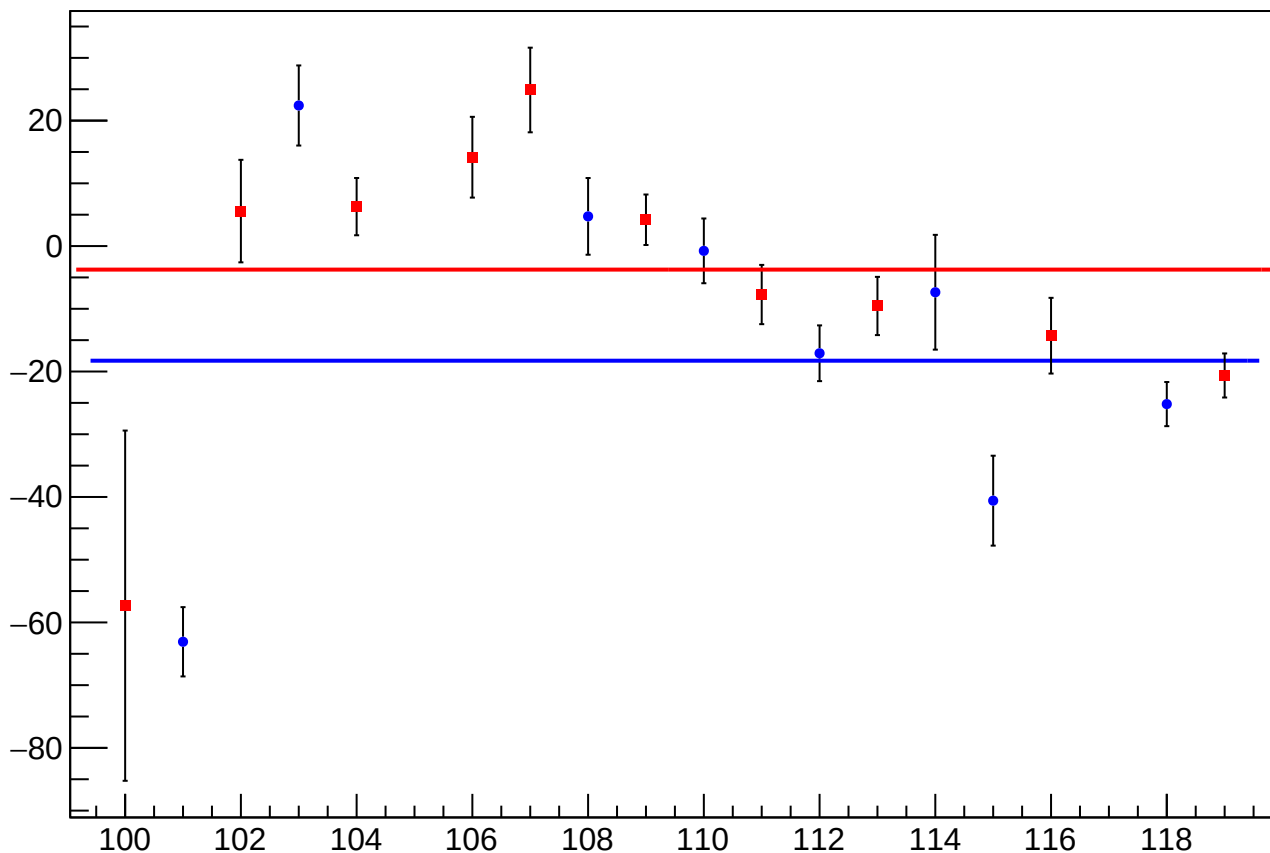
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -200.862+/-1.070  $\chi^2/\text{NDF}$ : 1978.7/17

- 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: -18.276 $\pm$ 1.875  $\chi^2$ /NDF: 147.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.752 $\pm$ 1.640  $\chi^2$ /NDF: 67.9/9

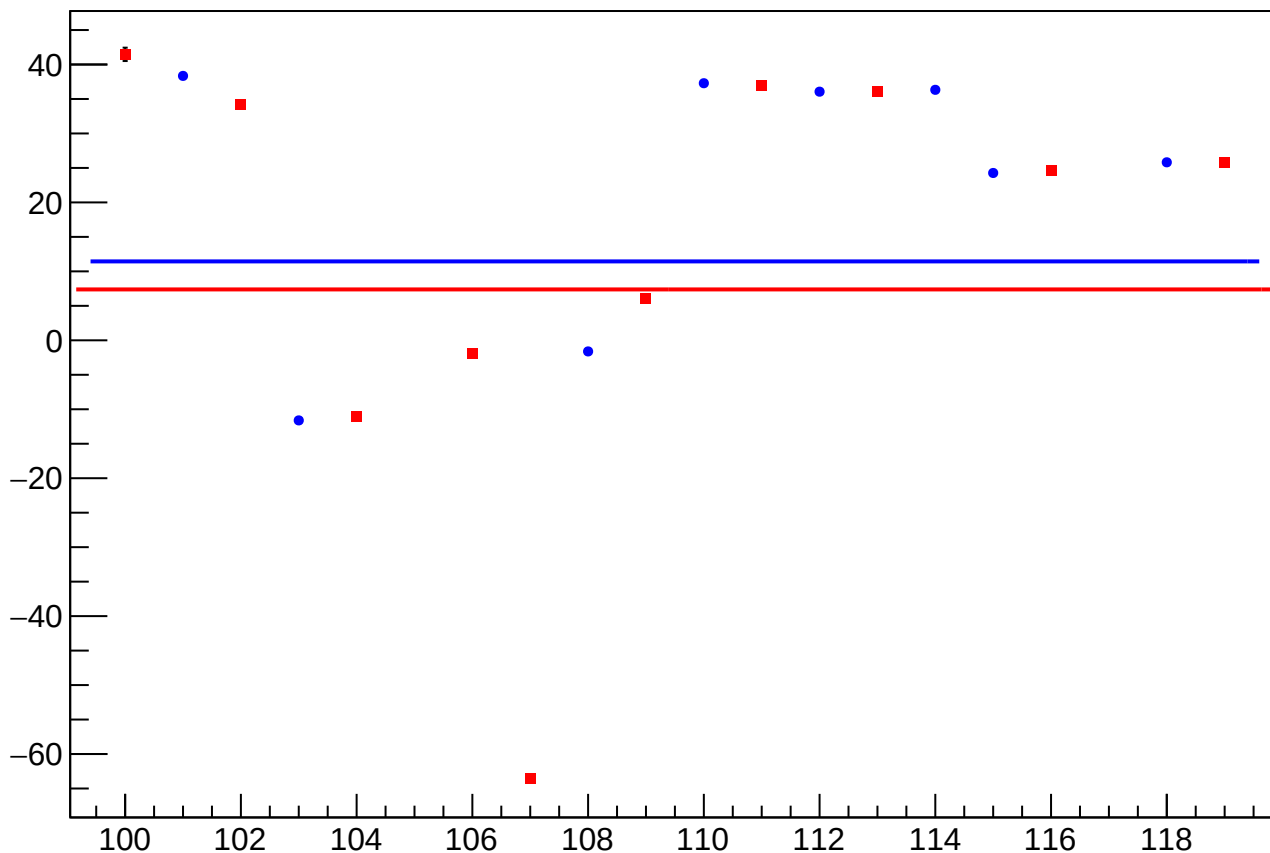
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -10.047 $\pm$ 1.234  $\chi^2$ /NDF: 249.0/17

- 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: 11.444+/-0.095  $\chi^2/\text{NDF}$ : 52344.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.380+/-0.085  $\chi^2/\text{NDF}$ : 96491.8/9

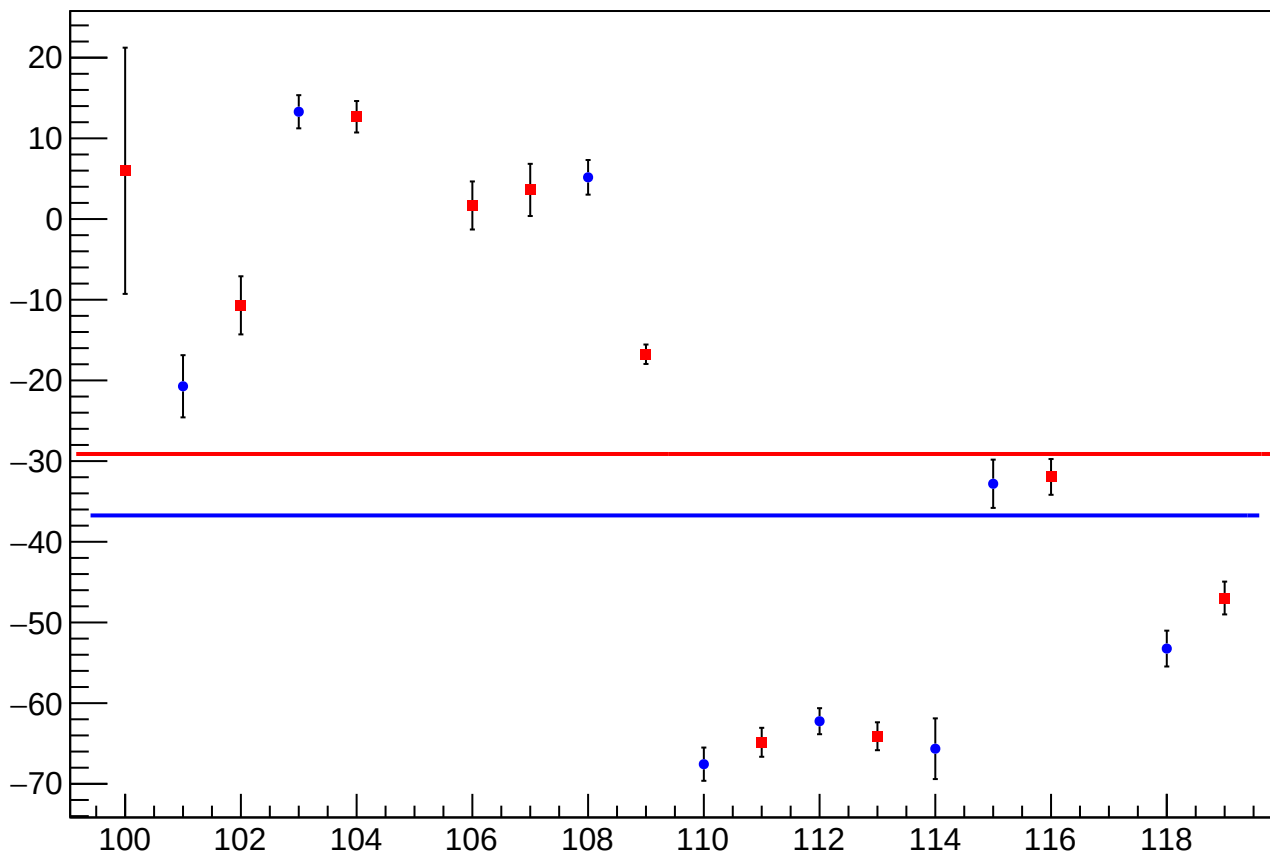
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.183+/-0.063  $\chi^2/\text{NDF}$ : 149862.1/17

- 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: -36.735 $\pm$ 0.809  $\chi^2$ /NDF: 1580.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -29.119 $\pm$ 0.655  $\chi^2$ /NDF: 1689.7/9

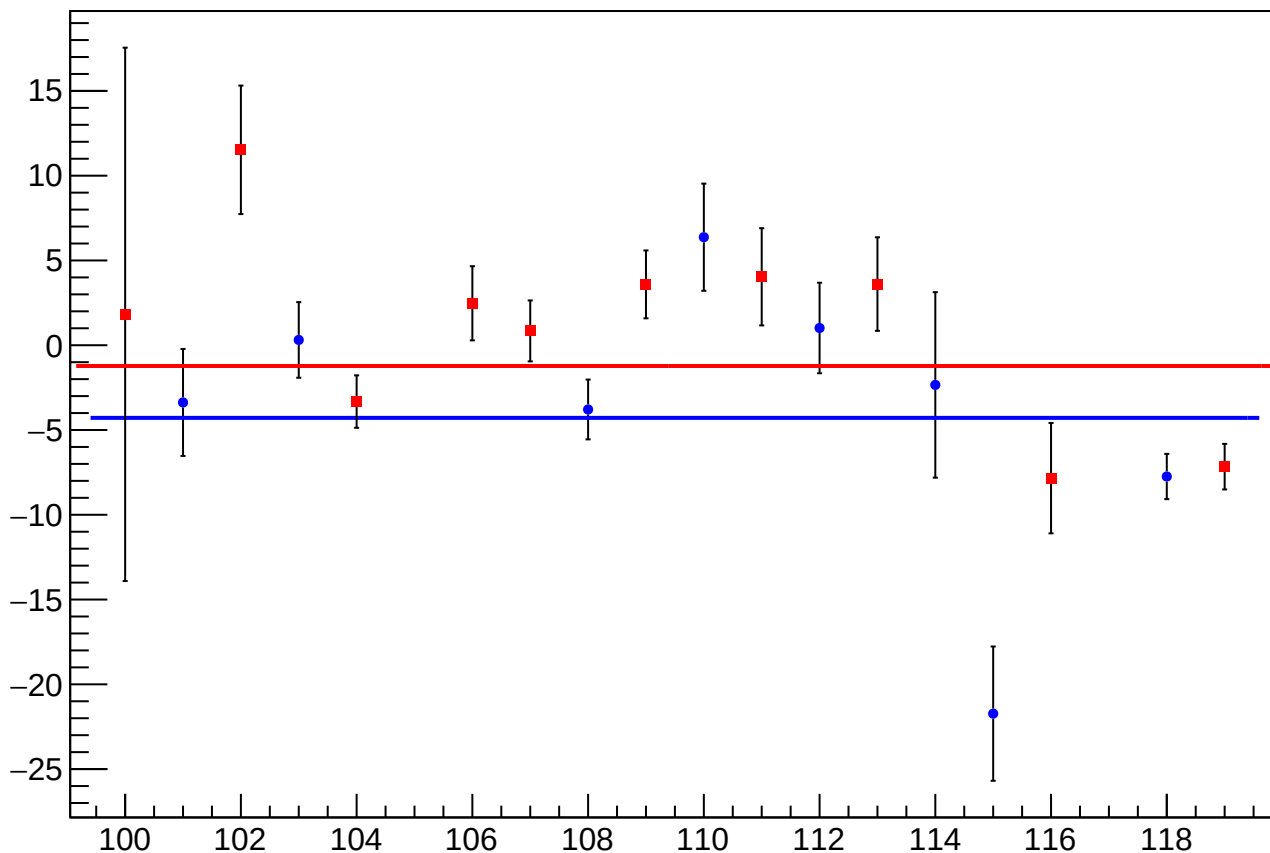
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -32.132 $\pm$ 0.509  $\chi^2$ /NDF: 3324.1/17

- 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:  $-4.284 \pm 0.811$   $\chi^2/\text{NDF}$ : 46.0/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.223 \pm 0.680$   $\chi^2/\text{NDF}$ : 53.2/9

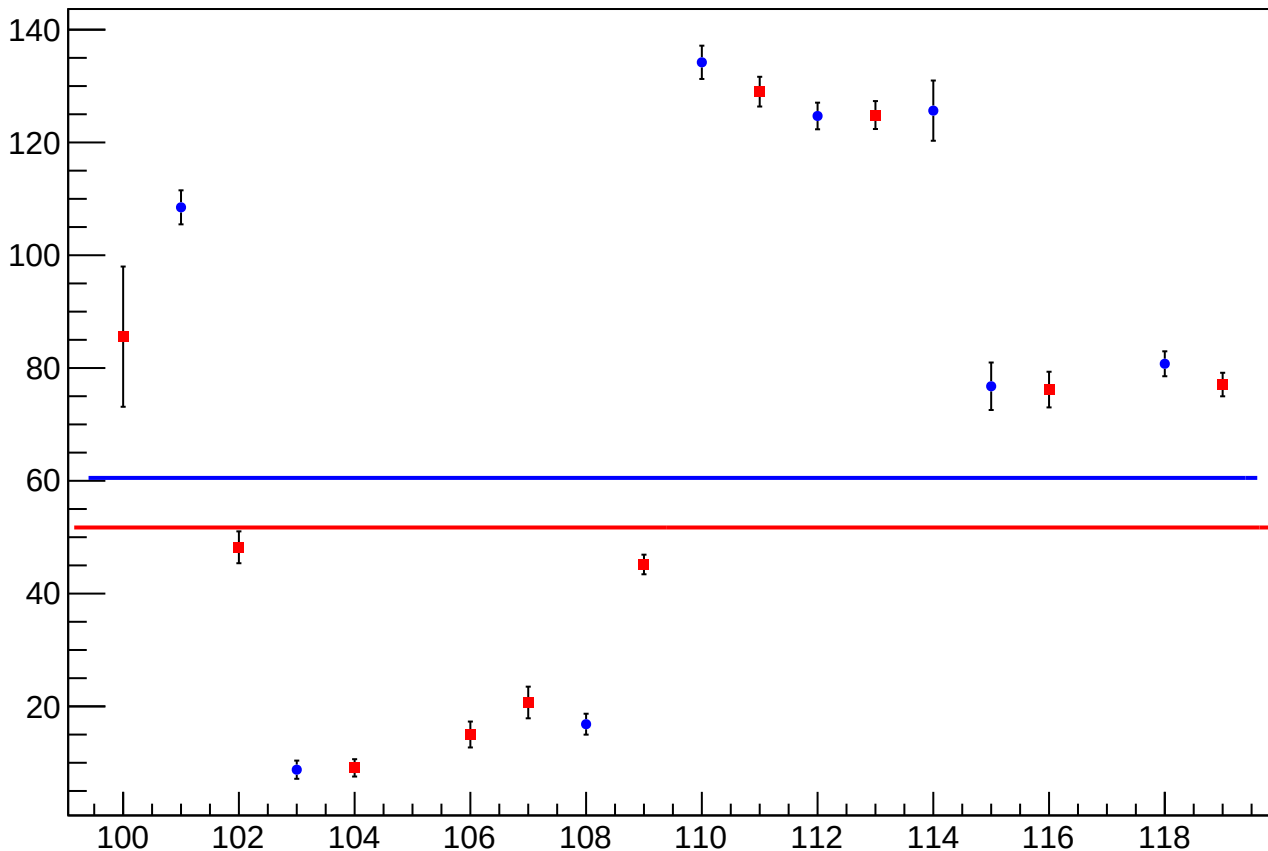
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.488 \pm 0.521$   $\chi^2/\text{NDF}$ : 107.6/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 60.515 $\pm$ 0.853  $\chi^2$ /NDF: 3445.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 51.722 $\pm$ 0.738  $\chi^2$ /NDF: 3106.3/9

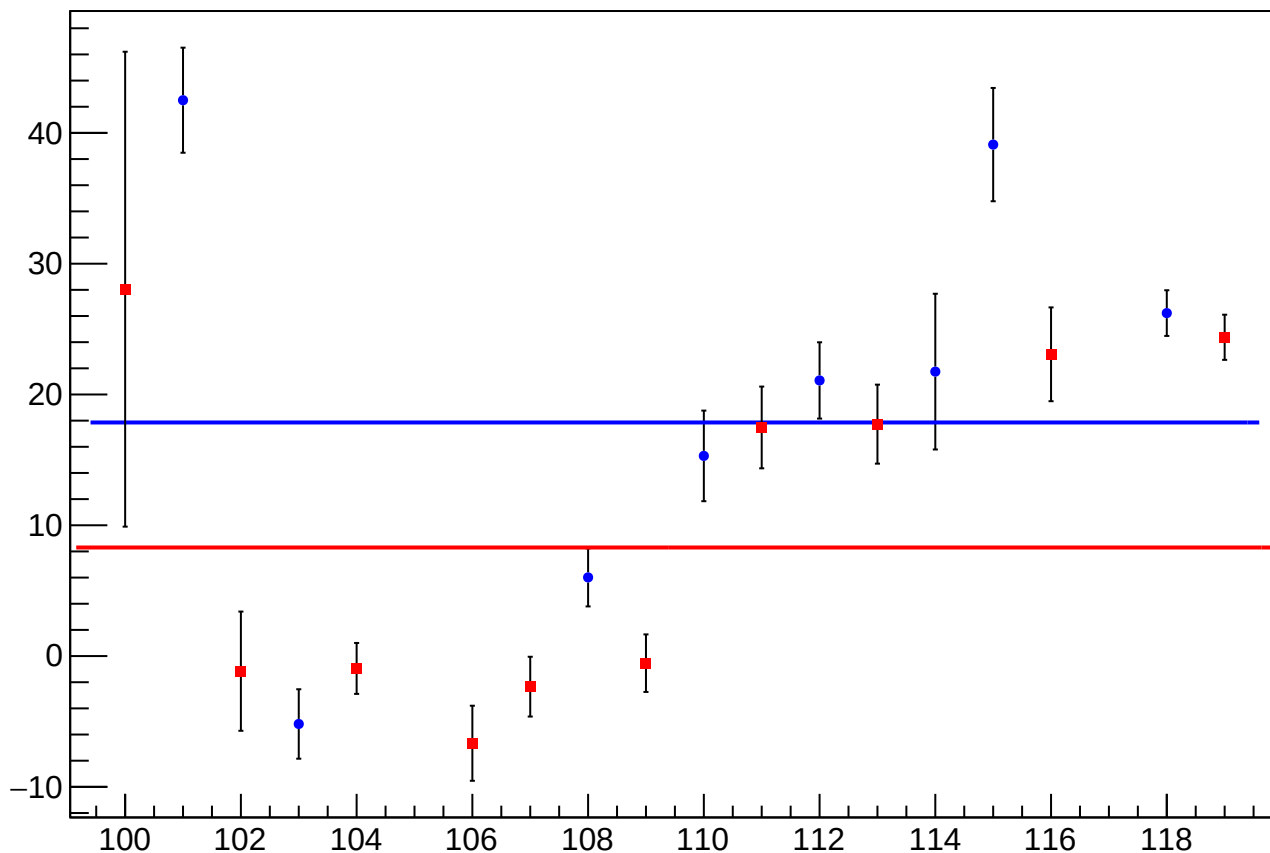
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 55.485 $\pm$ 0.558  $\chi^2$ /NDF: 6612.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 17.860 $\pm$ 0.991  $\chi^2$ /NDF: 190.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8.301 $\pm$ 0.828  $\chi^2$ /NDF: 215.1/9

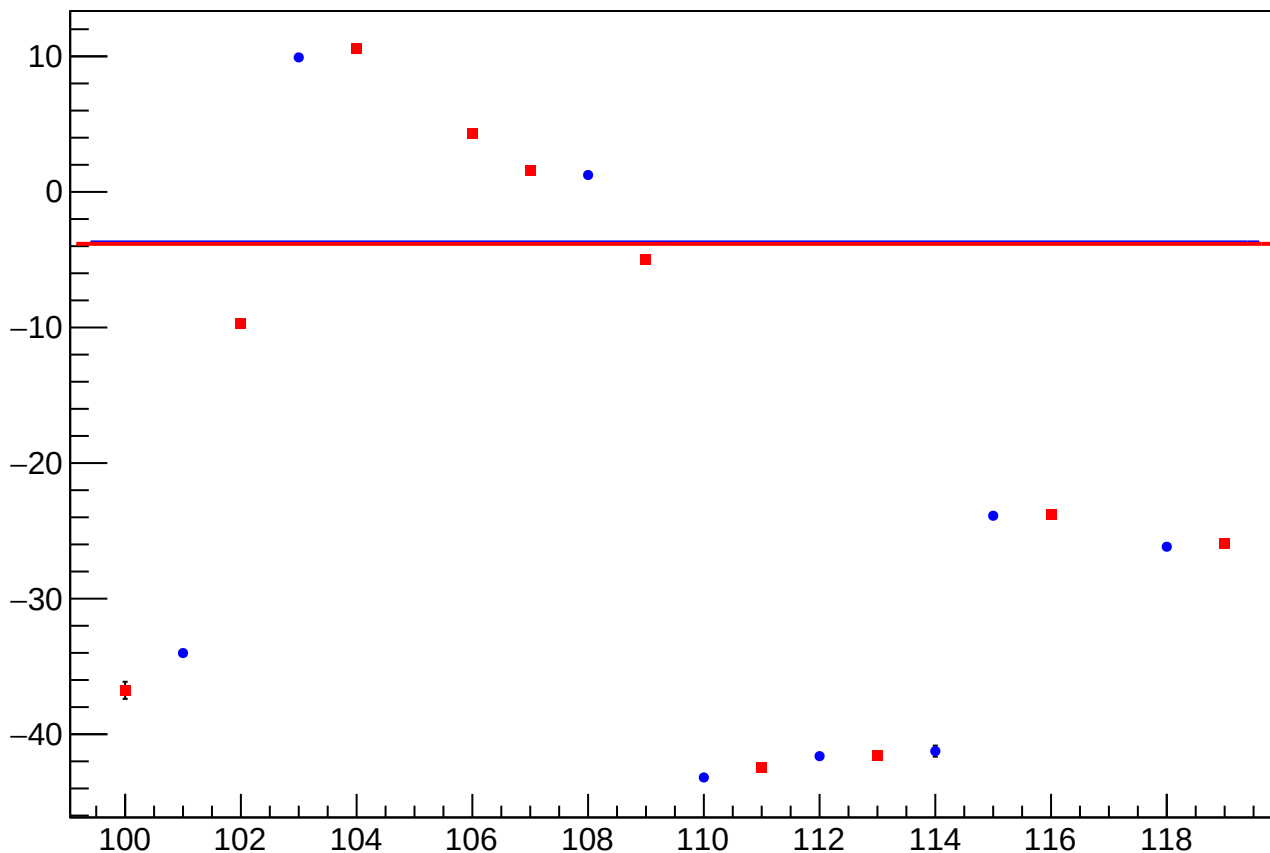
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12.227 $\pm$ 0.635  $\chi^2$ /NDF: 460.6/17

- 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: -3.725+/-0.044  $\chi^2/\text{NDF}$ : 171148.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.829+/-0.041  $\chi^2/\text{NDF}$ : 149874.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

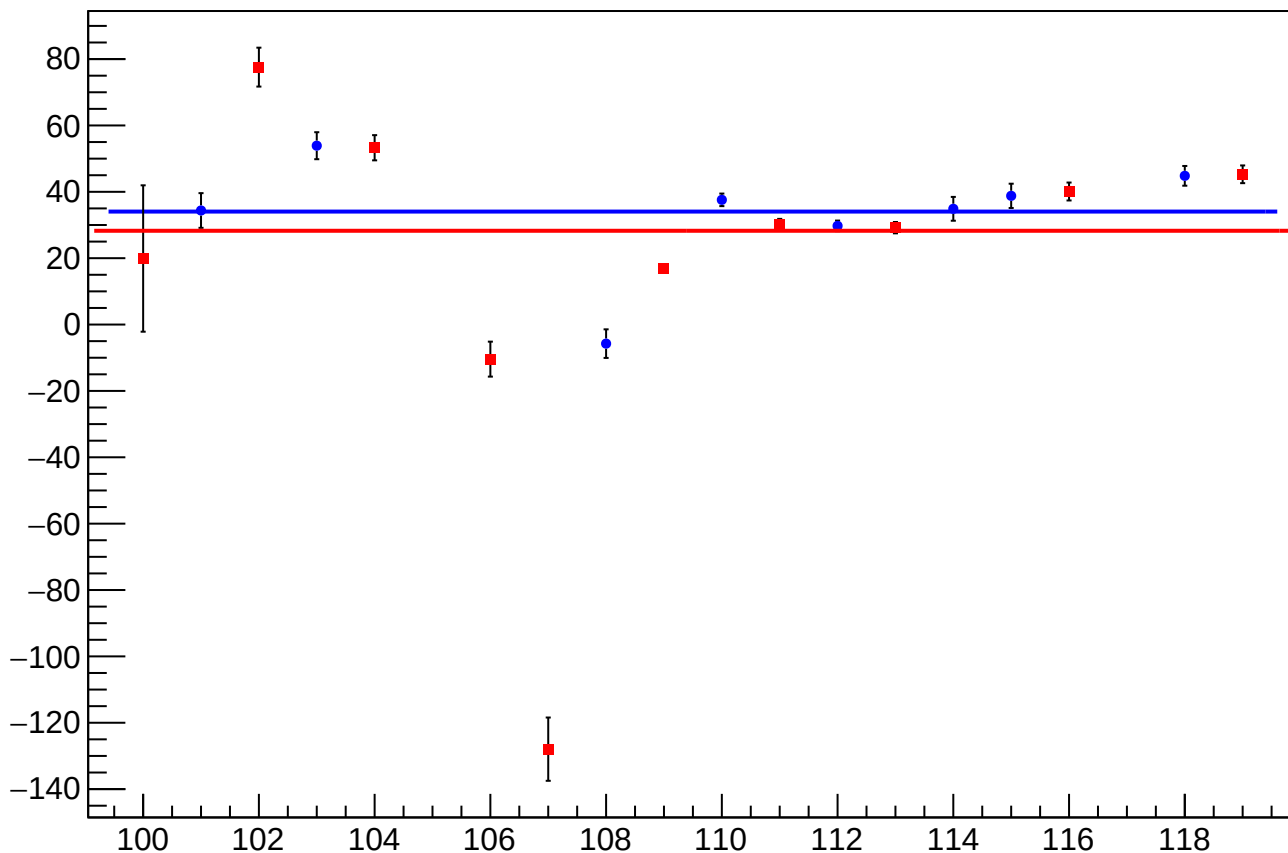
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.780+/-0.030  $\chi^2/\text{NDF}$ : 321025.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 34.048+/-0.958  $\chi^2/\text{NDF}$ : 134.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.260+/-0.804  $\chi^2/\text{NDF}$ : 554.3/9

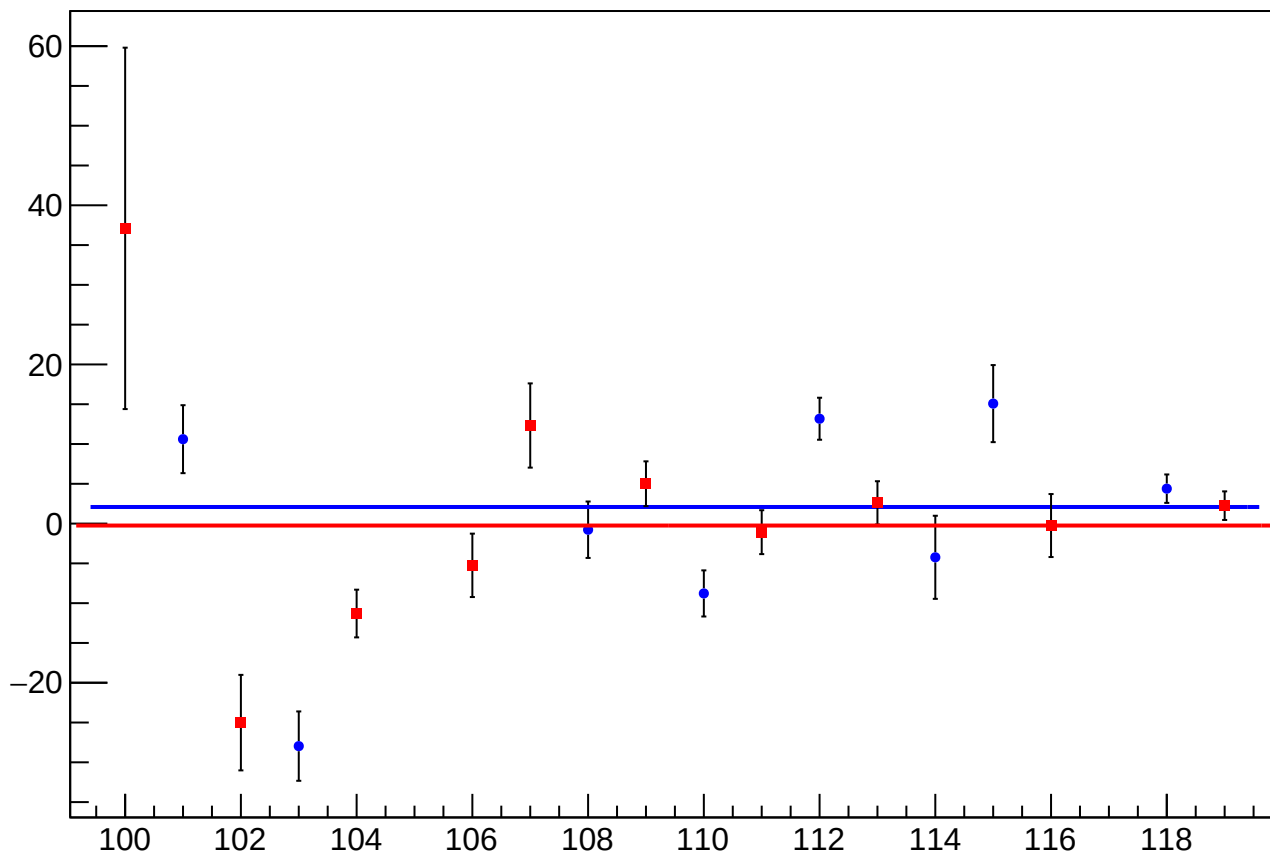
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.651+/-0.616  $\chi^2/\text{NDF}$ : 710.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 2.086+/-1.089  $\chi^2/\text{NDF}$ : 94.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.245+/-0.997  $\chi^2/\text{NDF}$ : 47.2/9

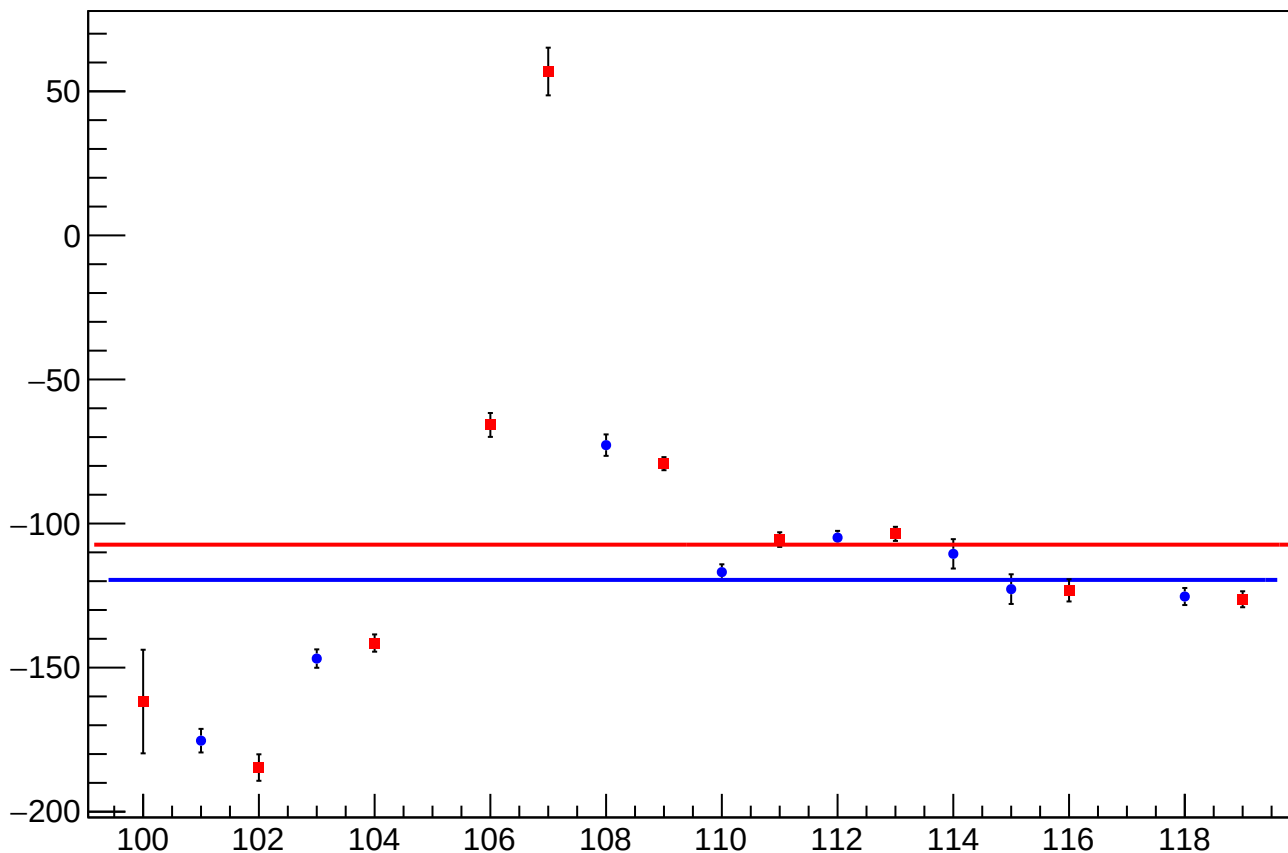
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.817+/-0.736  $\chi^2/\text{NDF}$ : 143.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -119.562+/-1.162  $\chi^2/\text{NDF}$ : 465.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -107.330+/-1.026  $\chi^2/\text{NDF}$ : 1136.6/9

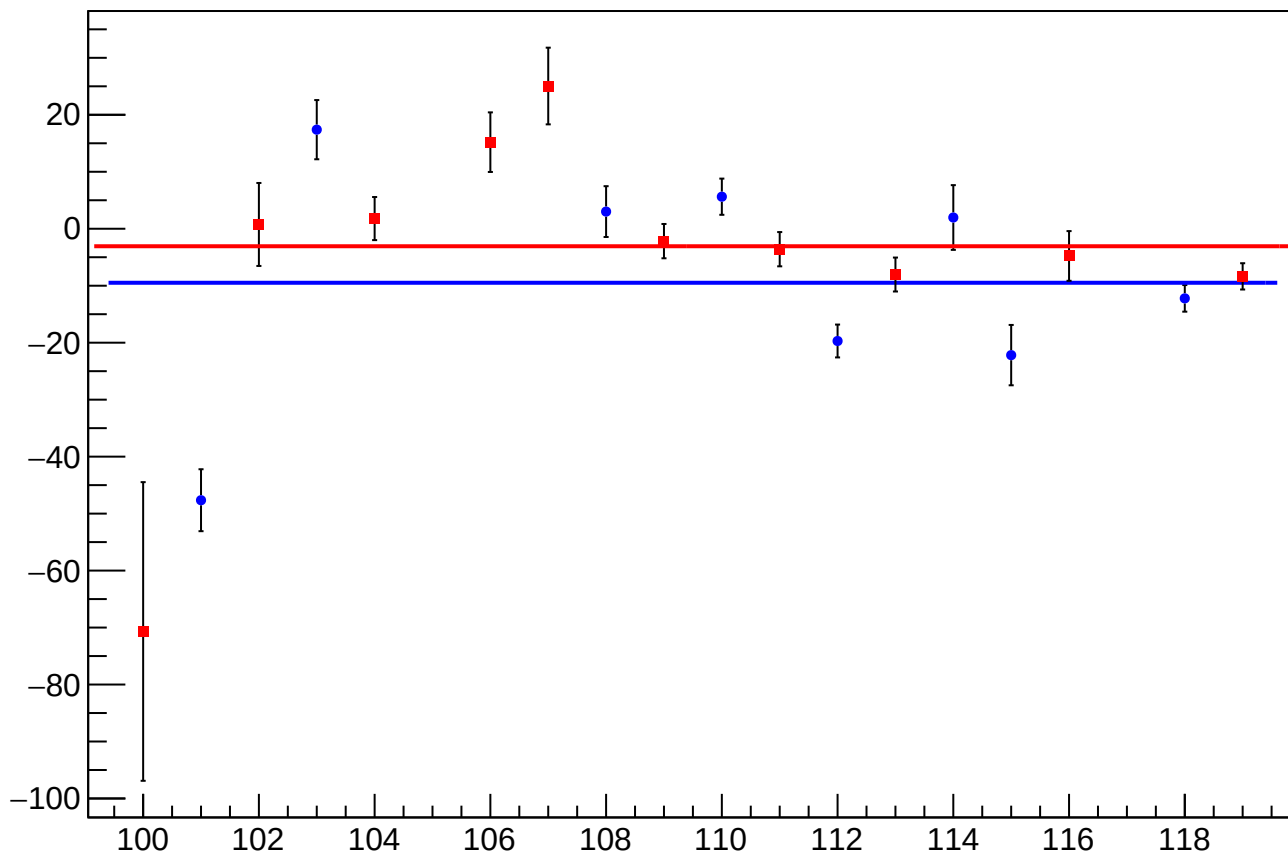
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -112.689+/-0.769  $\chi^2/\text{NDF}$ : 1663.8/17

- 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: -9.482+/-1.301  $\chi^2/\text{NDF}$ : 130.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.072+/-1.176  $\chi^2/\text{NDF}$ : 46.5/9

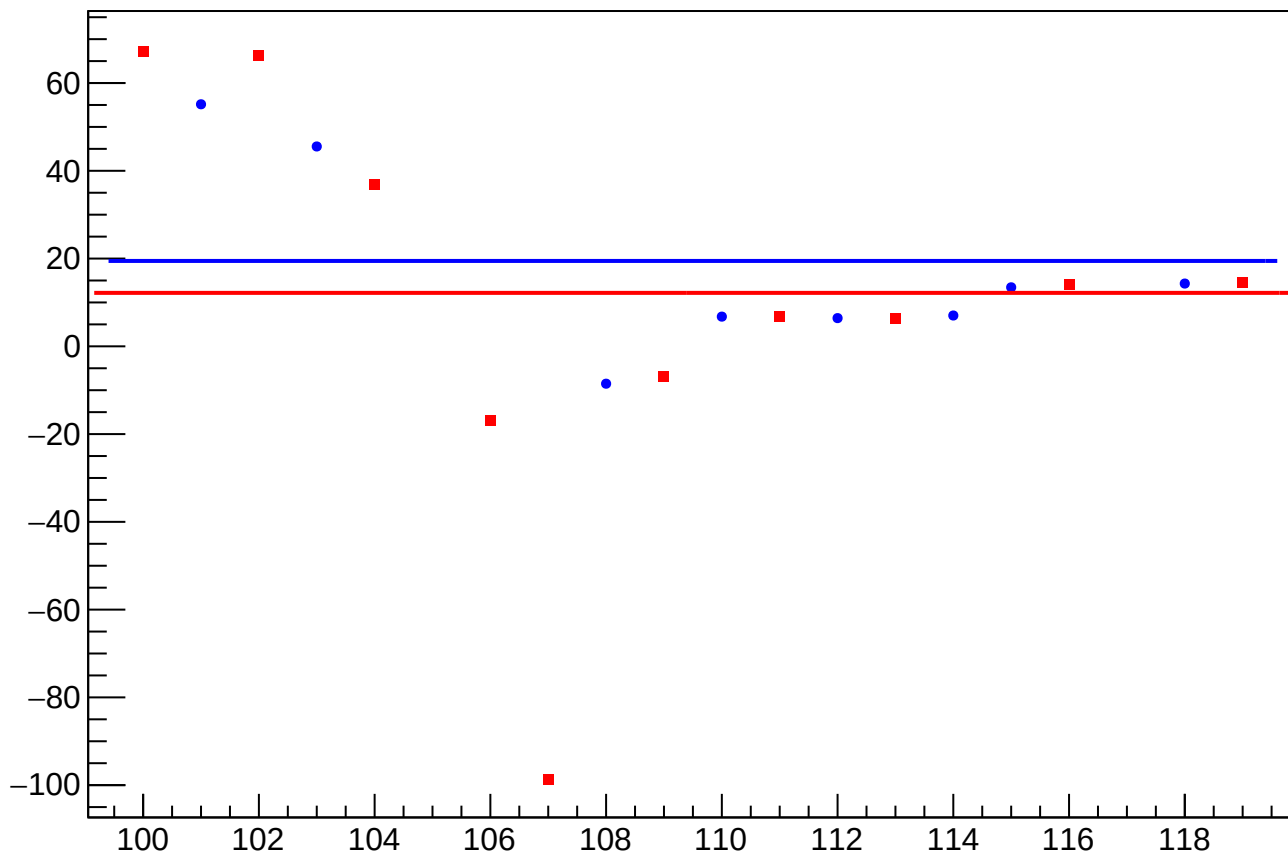
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.953+/-0.872  $\chi^2/\text{NDF}$ : 190.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 19.458+/-0.071  $\chi^2/\text{NDF}$ : 103779.7/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12.181+/-0.066  $\chi^2/\text{NDF}$ : 250796.6/9

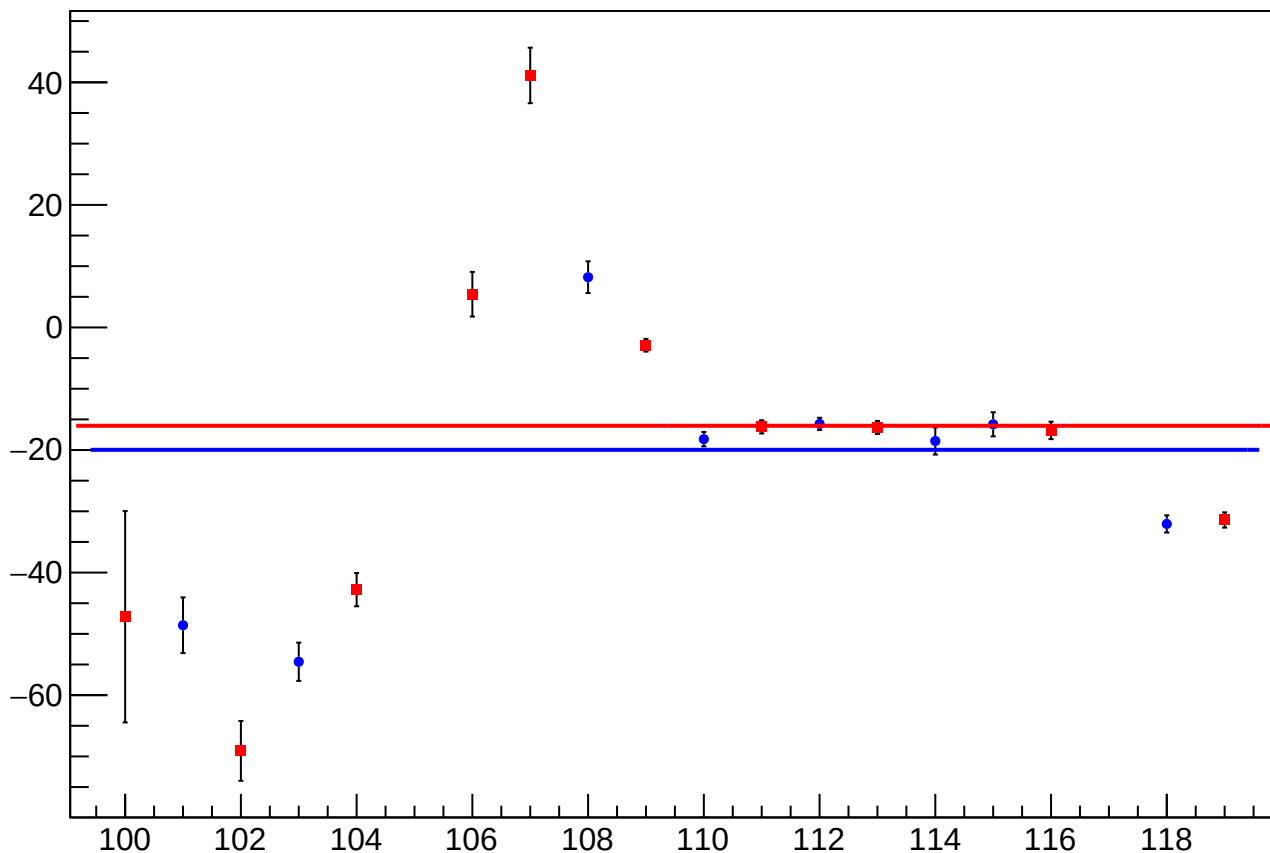
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15.549+/-0.048  $\chi^2/\text{NDF}$ : 360212.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-19.964 \pm 0.578$   $\chi^2/\text{NDF}$ : 380.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-16.044 \pm 0.492$   $\chi^2/\text{NDF}$ : 727.2/9

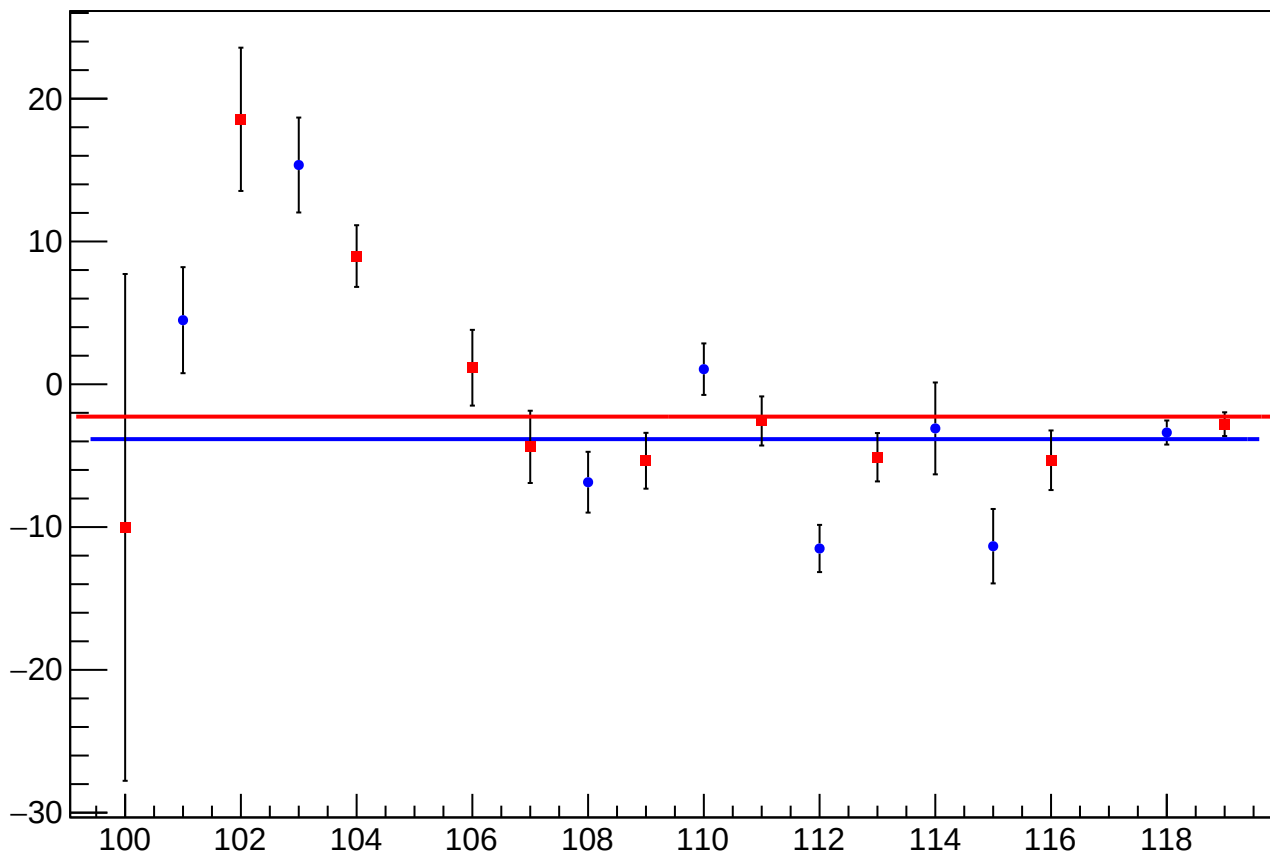
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-17.692 \pm 0.375$   $\chi^2/\text{NDF}$ : 1134.0/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-3.842 \pm 0.608$   $\chi^2/\text{NDF}$ : 77.9/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.265 \pm 0.561$   $\chi^2/\text{NDF}$ : 54.8/9

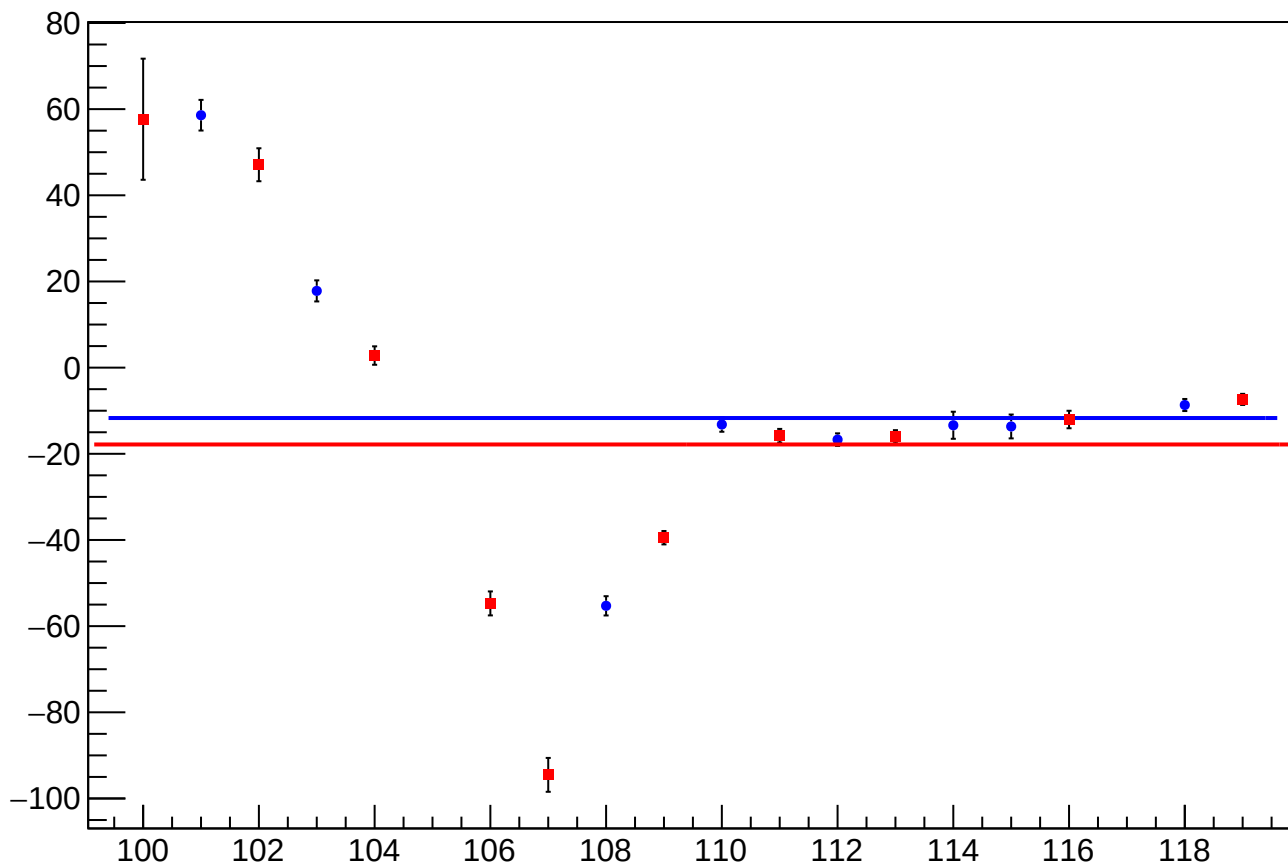
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.991 \pm 0.412$   $\chi^2/\text{NDF}$ : 136.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -11.695 $\pm$ 0.705  $\chi^2$ /NDF: 934.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -17.833 $\pm$ 0.623  $\chi^2$ /NDF: 1237.0/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

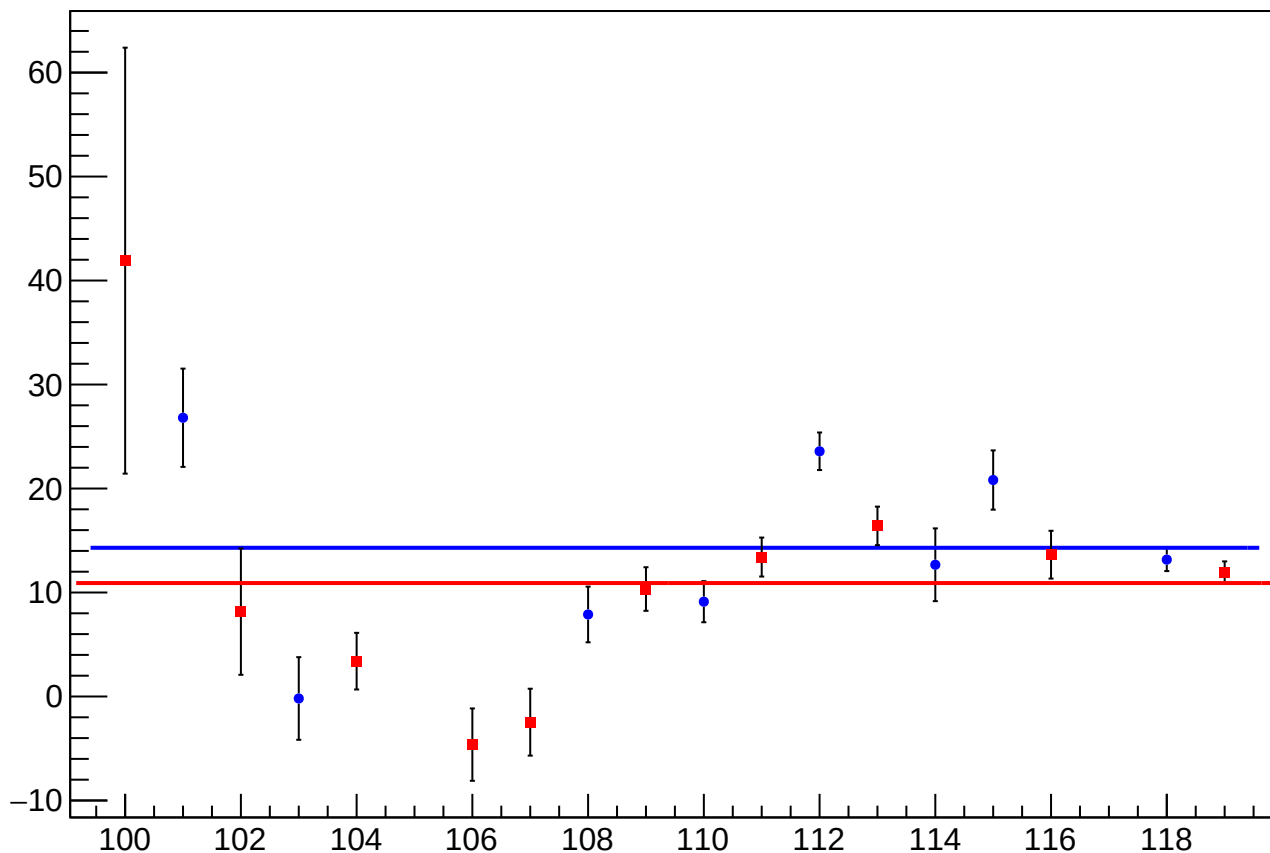
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -15.146 $\pm$ 0.467  $\chi^2$ /NDF: 2213.6/17

- 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: 14.301 $\pm$ 0.737  $\chi^2$ /NDF: 65.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.909 $\pm$ 0.672  $\chi^2$ /NDF: 60.3/9

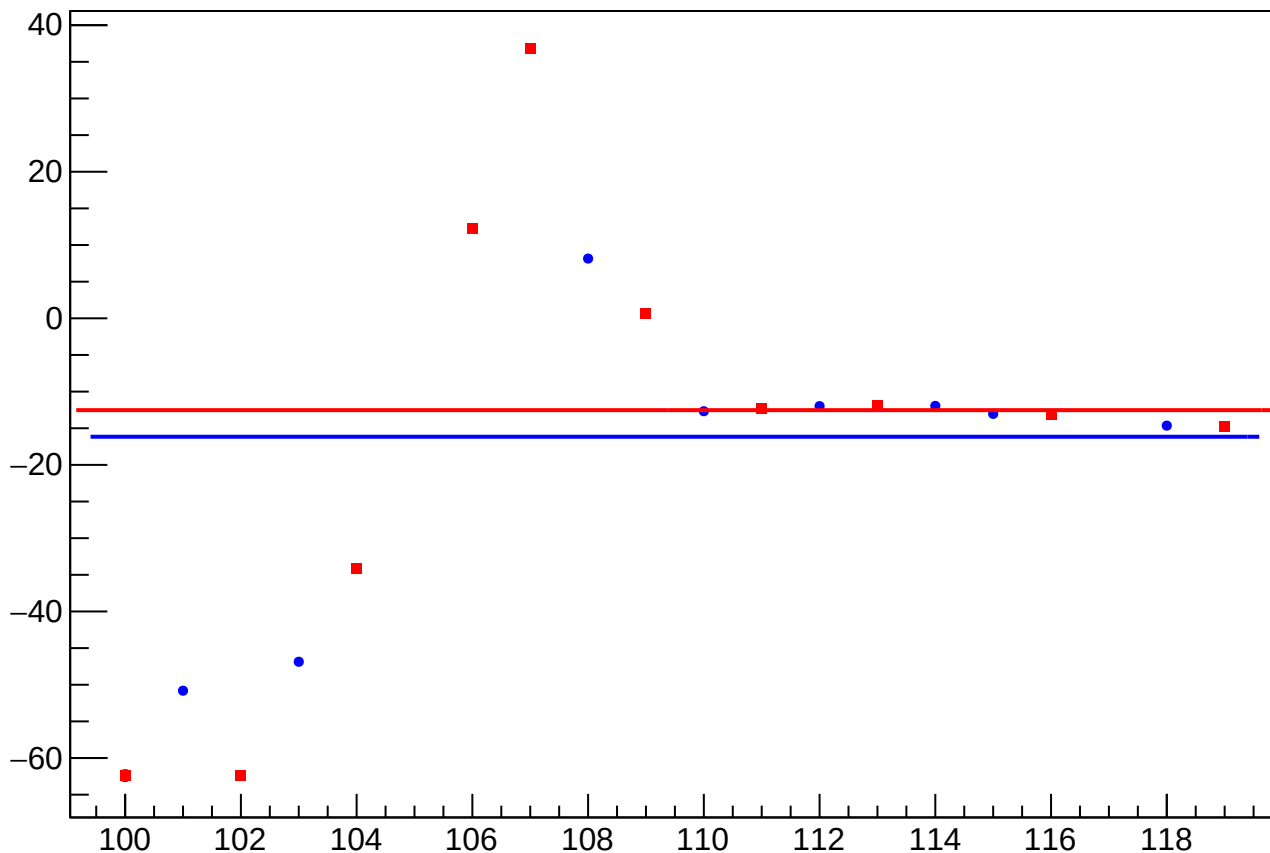
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12.448 $\pm$ 0.497  $\chi^2$ /NDF: 137.7/17

- 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: -16.159 $\pm$ 0.045  $\chi^2$ /NDF: 190326.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -12.531 $\pm$ 0.042  $\chi^2$ /NDF: 277079.1/9

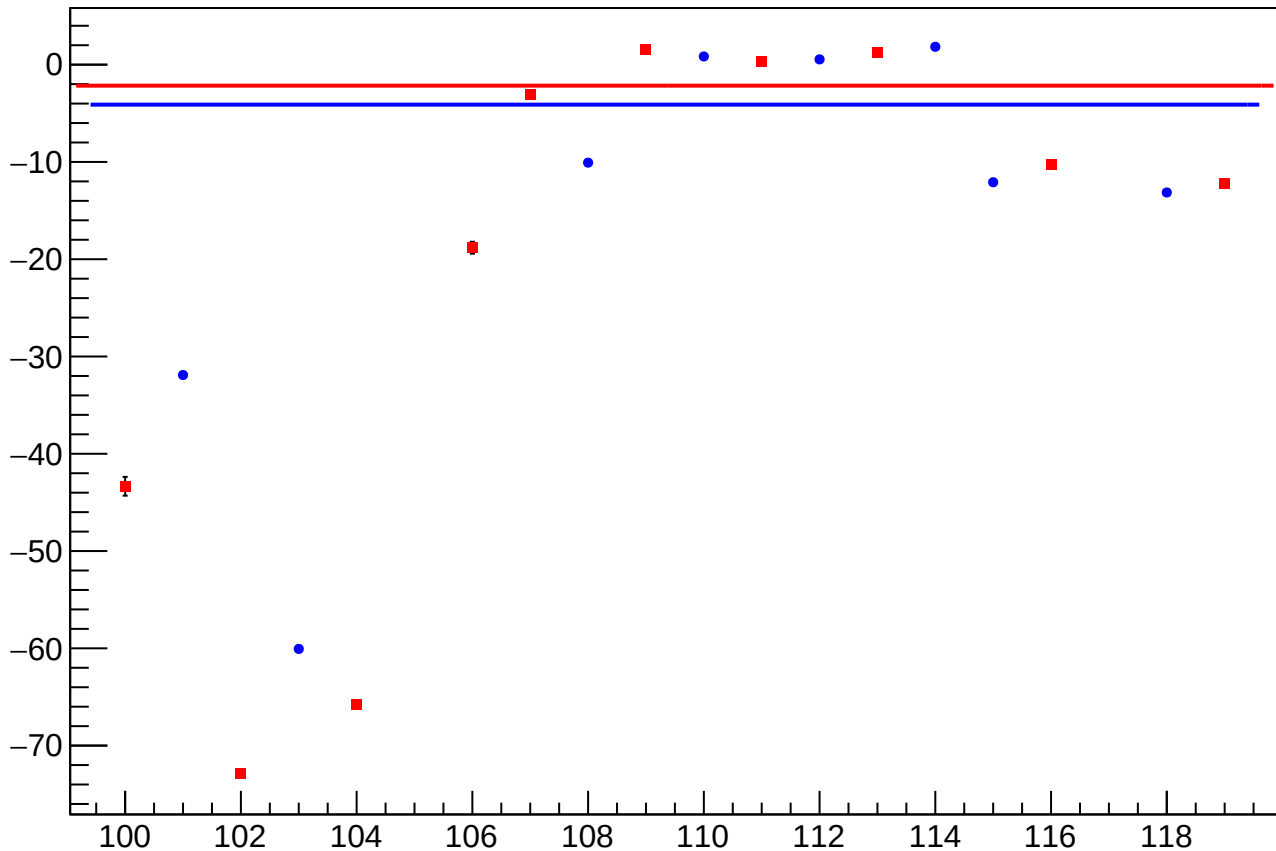
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.202 $\pm$ 0.031  $\chi^2$ /NDF: 470880.6/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug



Right In: -4.110+/-0.068  $\chi^2/\text{NDF}$ : 31858.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.158+/-0.053  $\chi^2/\text{NDF}$ : 50684.7/9

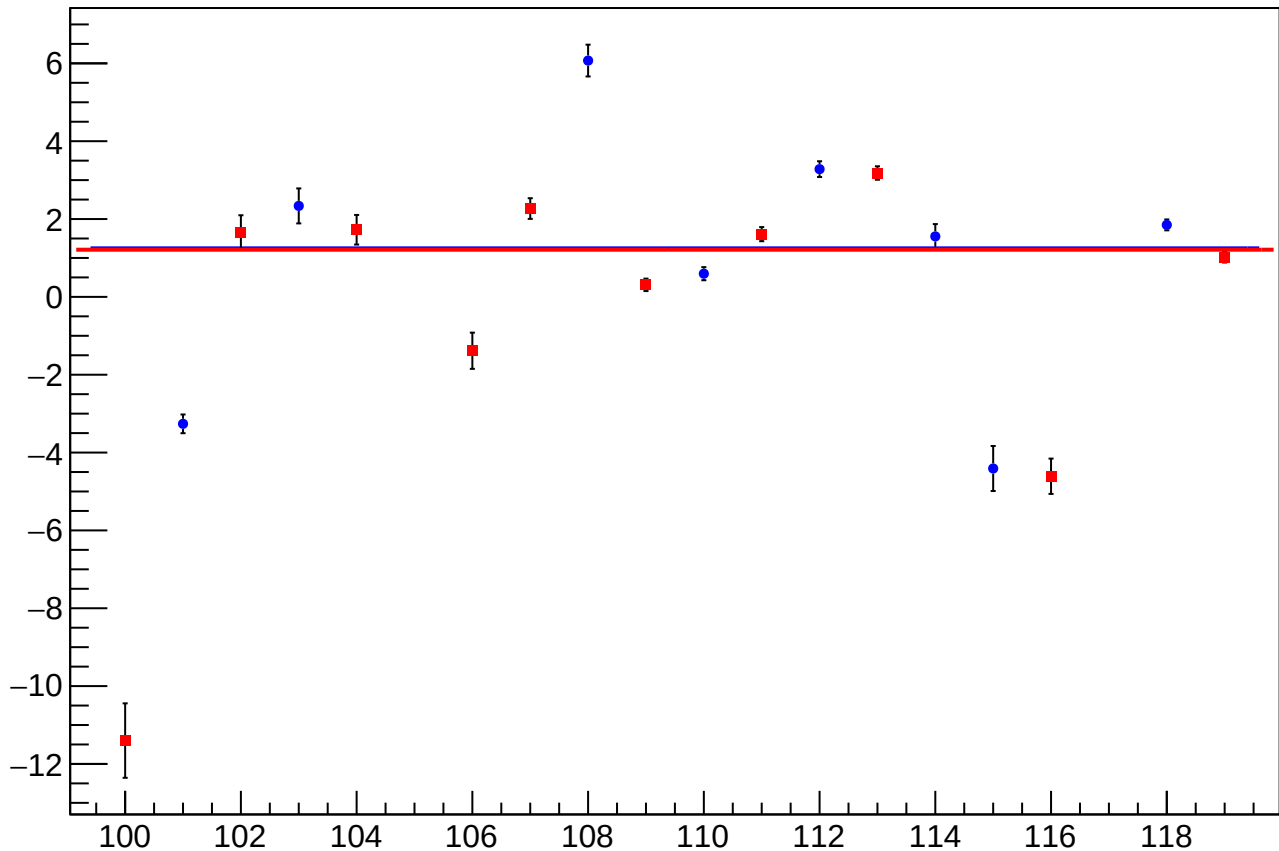
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.895+/-0.042  $\chi^2/\text{NDF}$ : 83055.8/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug



Right In: 1.246 $\pm$ 0.081  $\chi^2$ /NDF: 727.8/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.212 $\pm$ 0.072  $\chi^2$ /NDF: 557.2/9

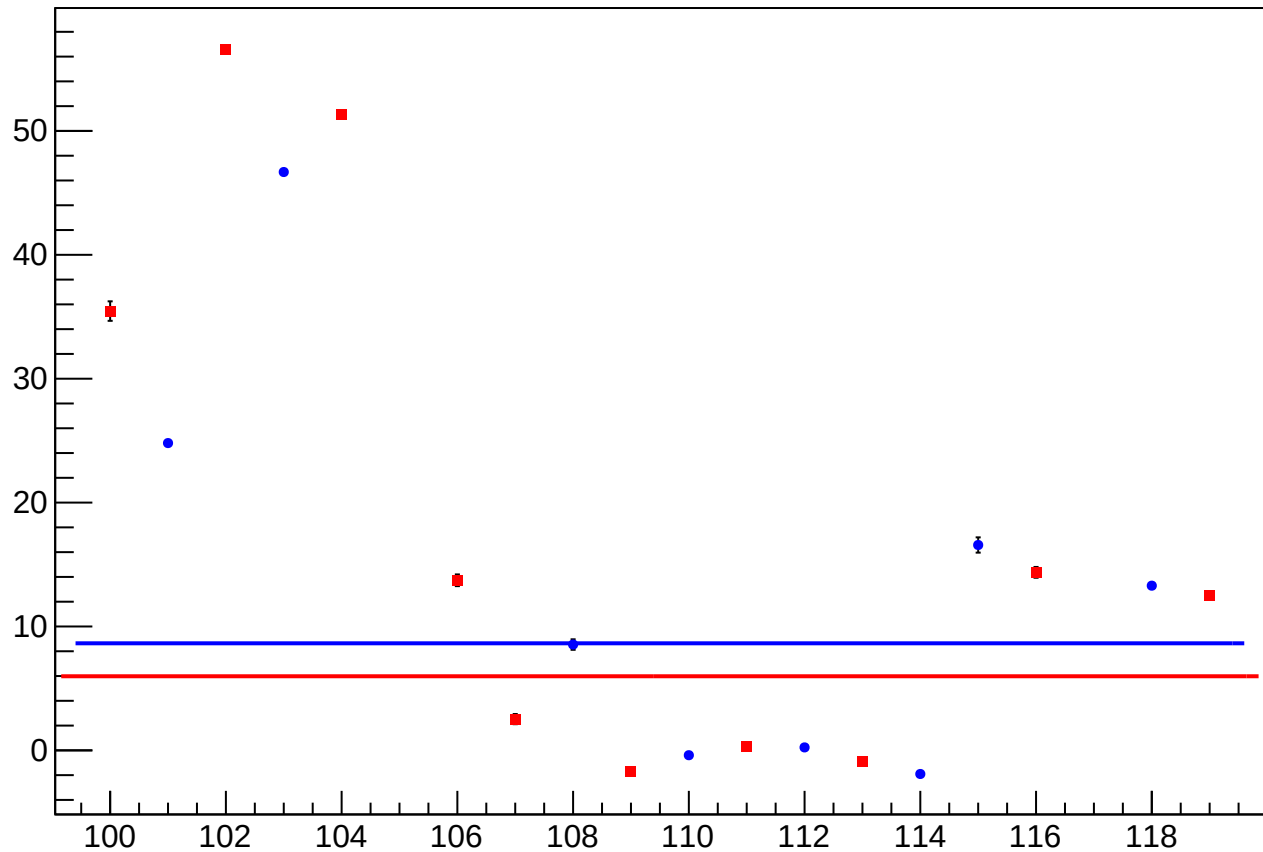
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.227 $\pm$ 0.054  $\chi^2$ /NDF: 1285.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug



Right In: 8.642 $\pm$ 0.086  $\chi^2$ /NDF: 24745.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.982 $\pm$ 0.072  $\chi^2$ /NDF: 44253.2/9

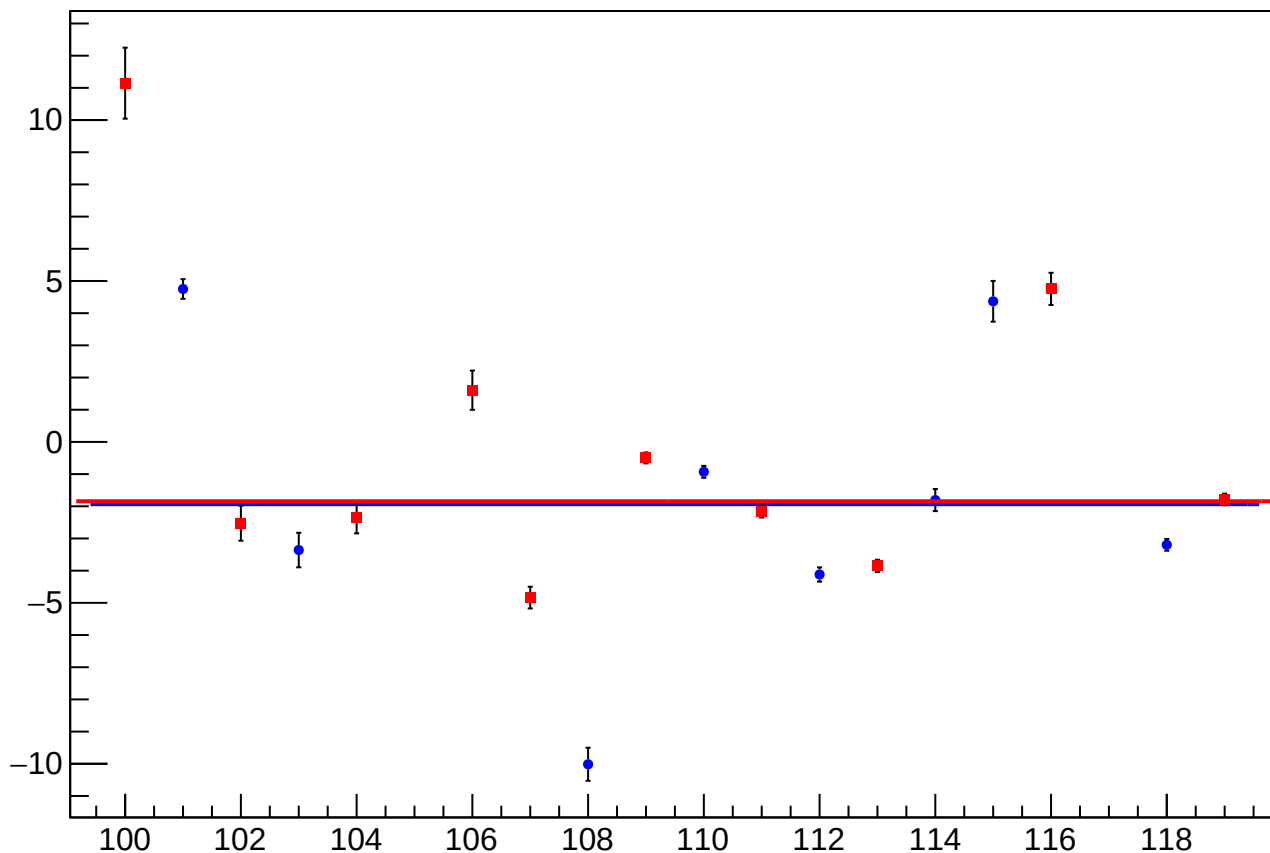
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.089 $\pm$ 0.055  $\chi^2$ /NDF: 69562.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs Slug



Right In: -1.935+/-0.096  $\chi^2/\text{NDF}$ : 1008.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.842+/-0.083  $\chi^2/\text{NDF}$ : 605.1/9

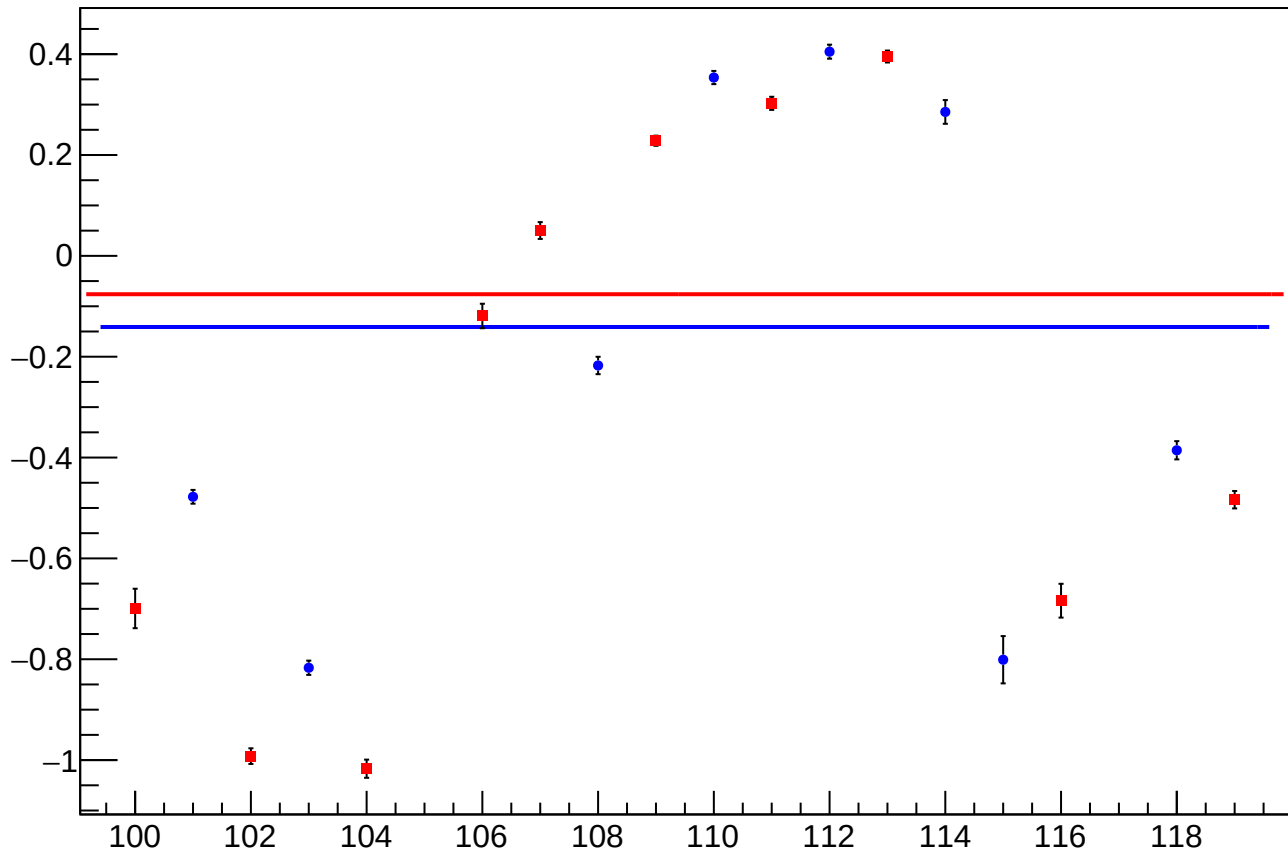
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.882+/-0.063  $\chi^2/\text{NDF}$ : 1613.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug



Right In: -0.141+/-0.006  $\chi^2/\text{NDF}$ : 6589.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.076+/-0.005  $\chi^2/\text{NDF}$ : 10748.7/9

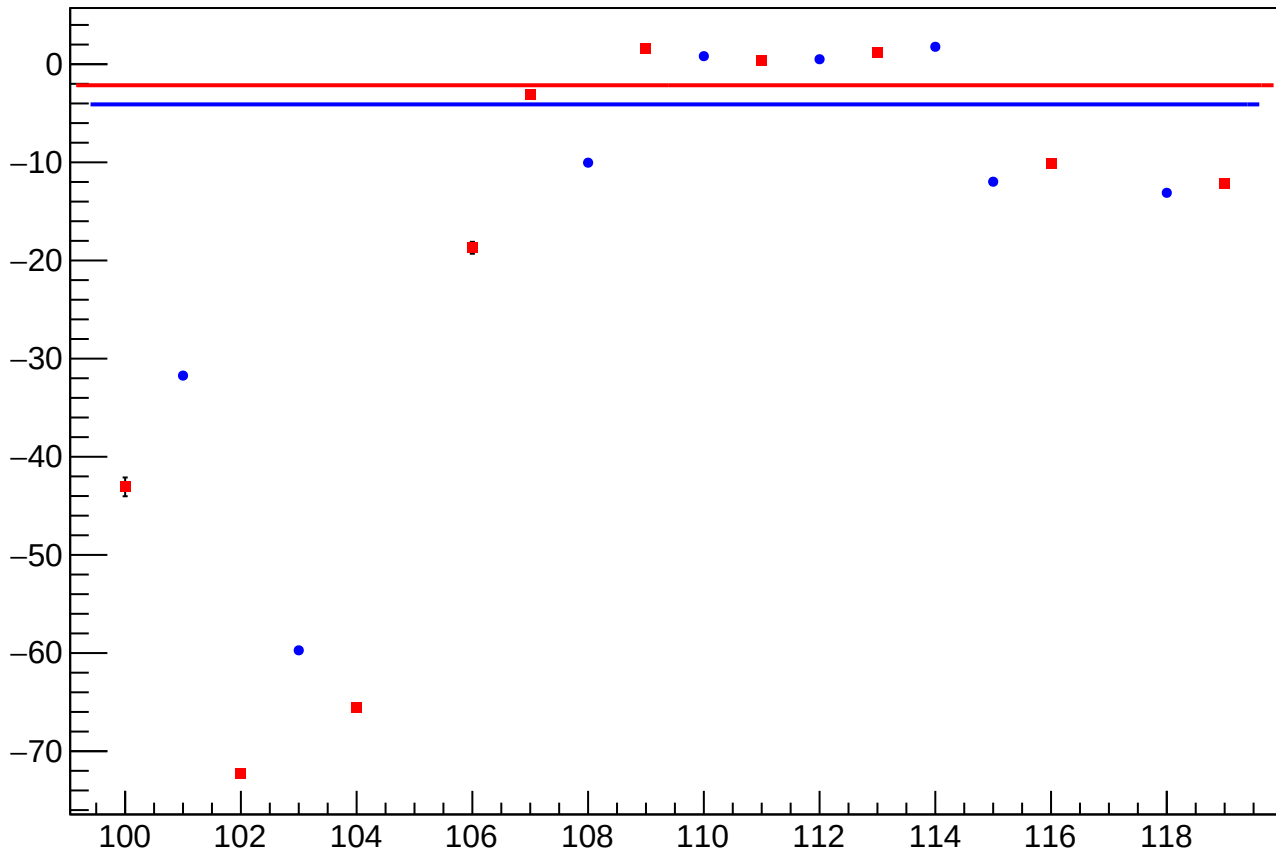
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.104+/-0.004  $\chi^2/\text{NDF}$ : 17411.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_an\_ds\_diff\_bpm1X\_slope vs Slug



Right In: -4.094+/-0.068  $\chi^2/\text{NDF}$ : 31819.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.145+/-0.053  $\chi^2/\text{NDF}$ : 50651.4/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

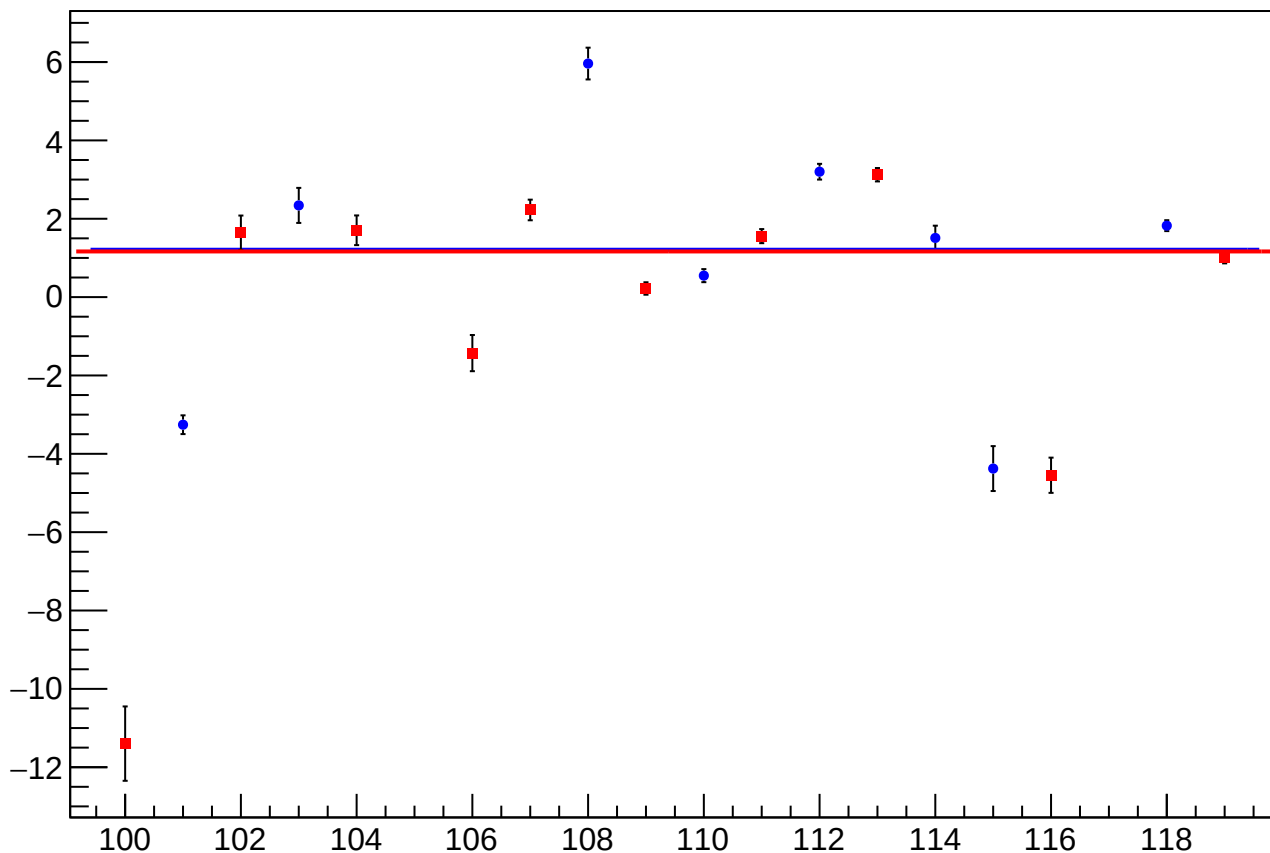
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.882+/-0.041  $\chi^2/\text{NDF}$ : 82989.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug



Right In: 1.209 $\pm$ 0.081  $\chi^2$ /NDF: 721.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.165 $\pm$ 0.072  $\chi^2$ /NDF: 560.4/9

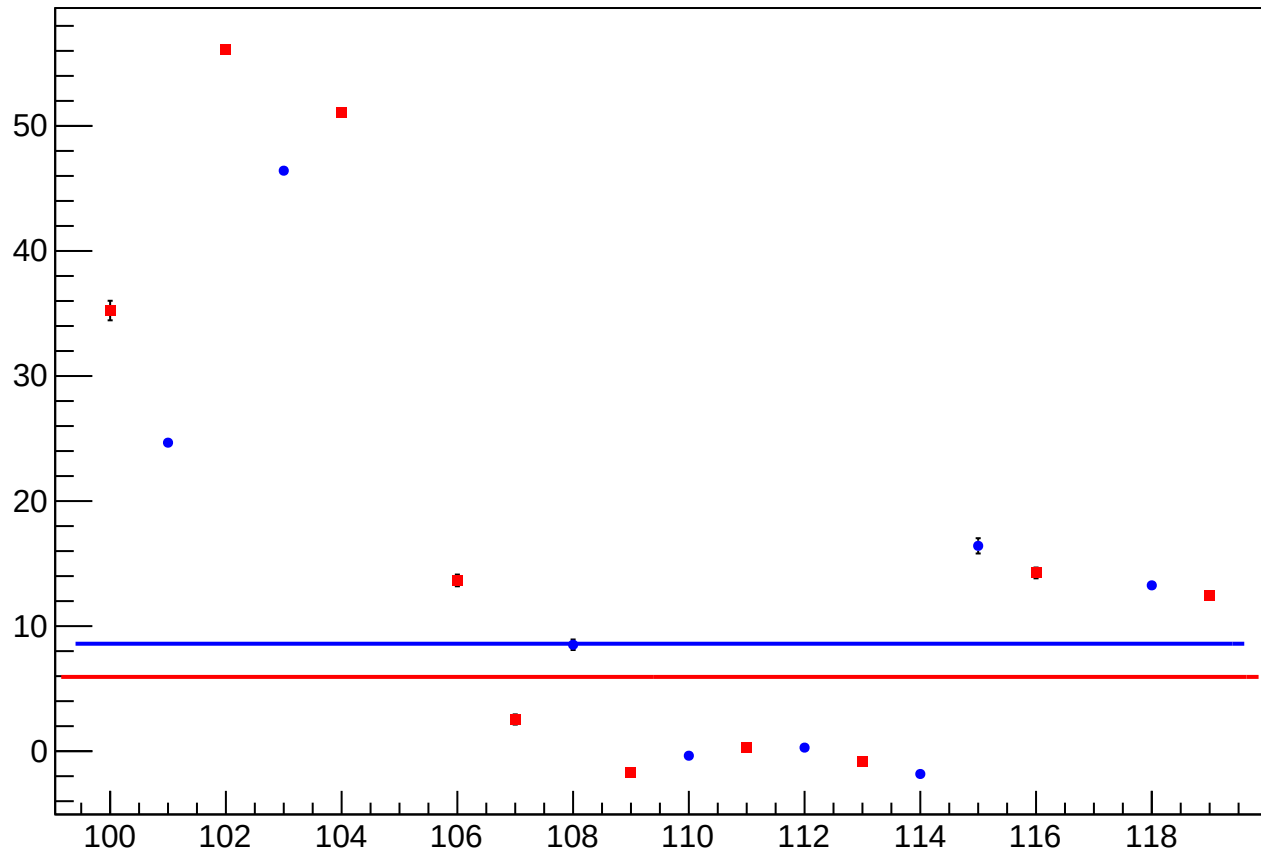
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.185 $\pm$ 0.054  $\chi^2$ /NDF: 1282.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug



Right In: 8.592 $\pm$ 0.085  $\chi^2$ /NDF: 24711.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.939 $\pm$ 0.072  $\chi^2$ /NDF: 44230.6/9

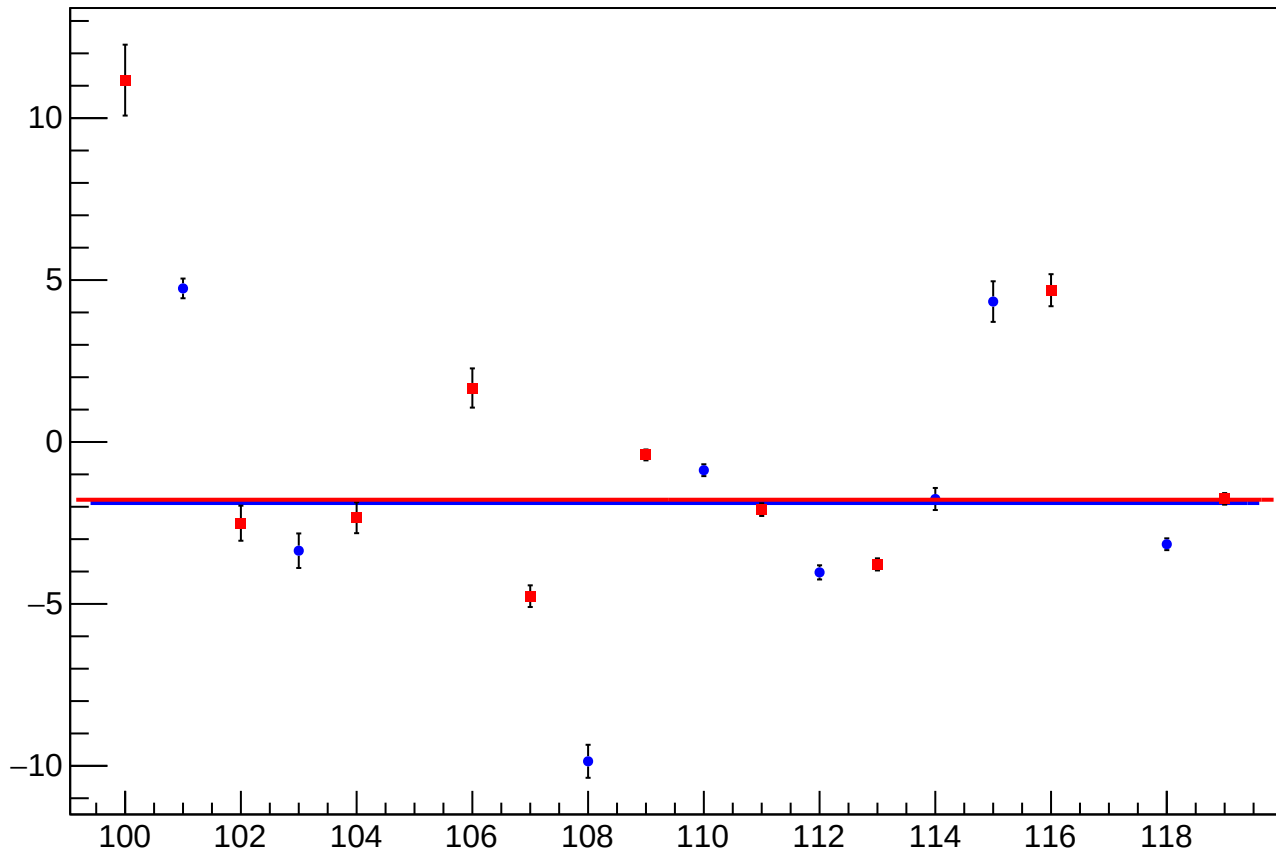
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.043 $\pm$ 0.055  $\chi^2$ /NDF: 69511.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug



Right In: -1.885+/-0.095  $\chi^2/\text{NDF}$ : 1001.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.783+/-0.083  $\chi^2/\text{NDF}$ : 609.8/9

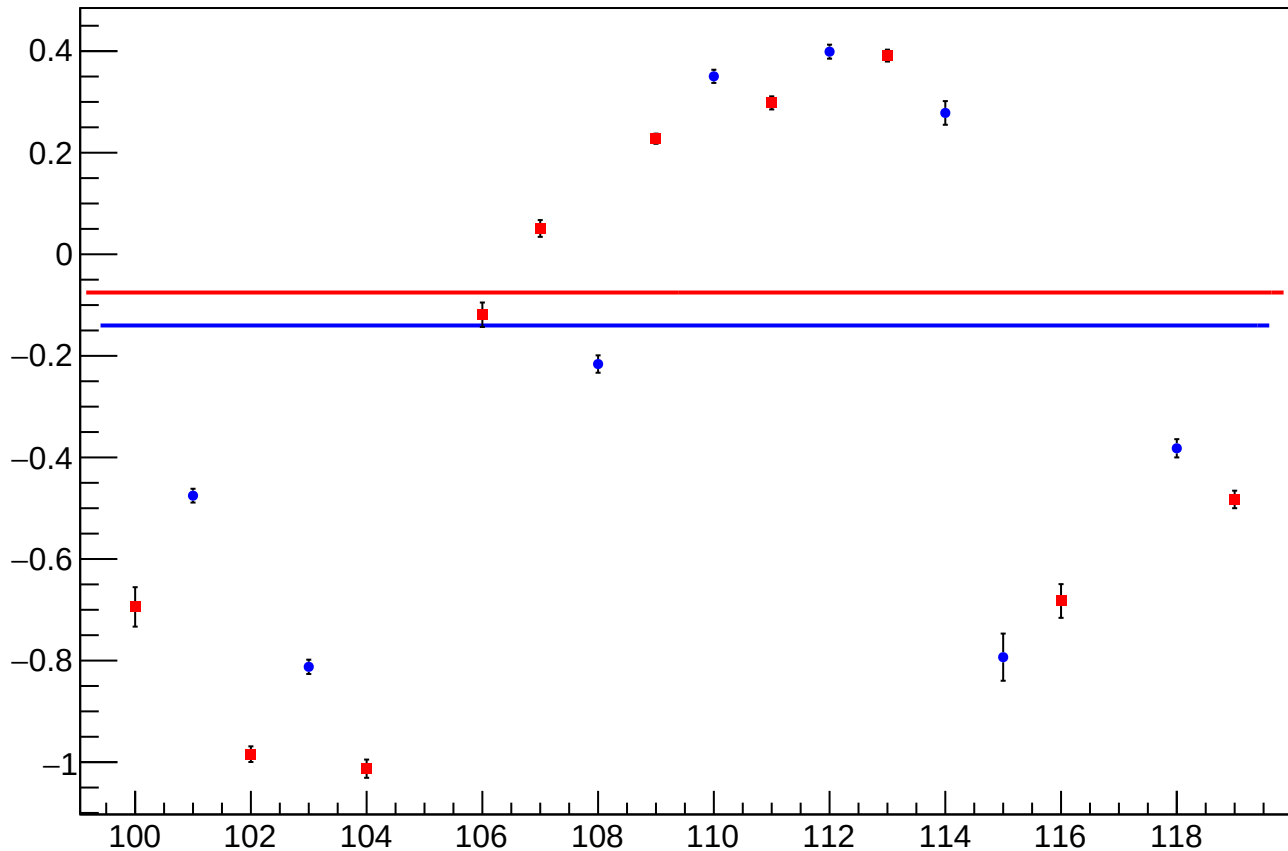
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.827+/-0.062  $\chi^2/\text{NDF}$ : 1612.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.140 \pm 0.006$   $\chi^2/\text{NDF}$ : 6564.5/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.075 \pm 0.005$   $\chi^2/\text{NDF}$ : 10750.2/9

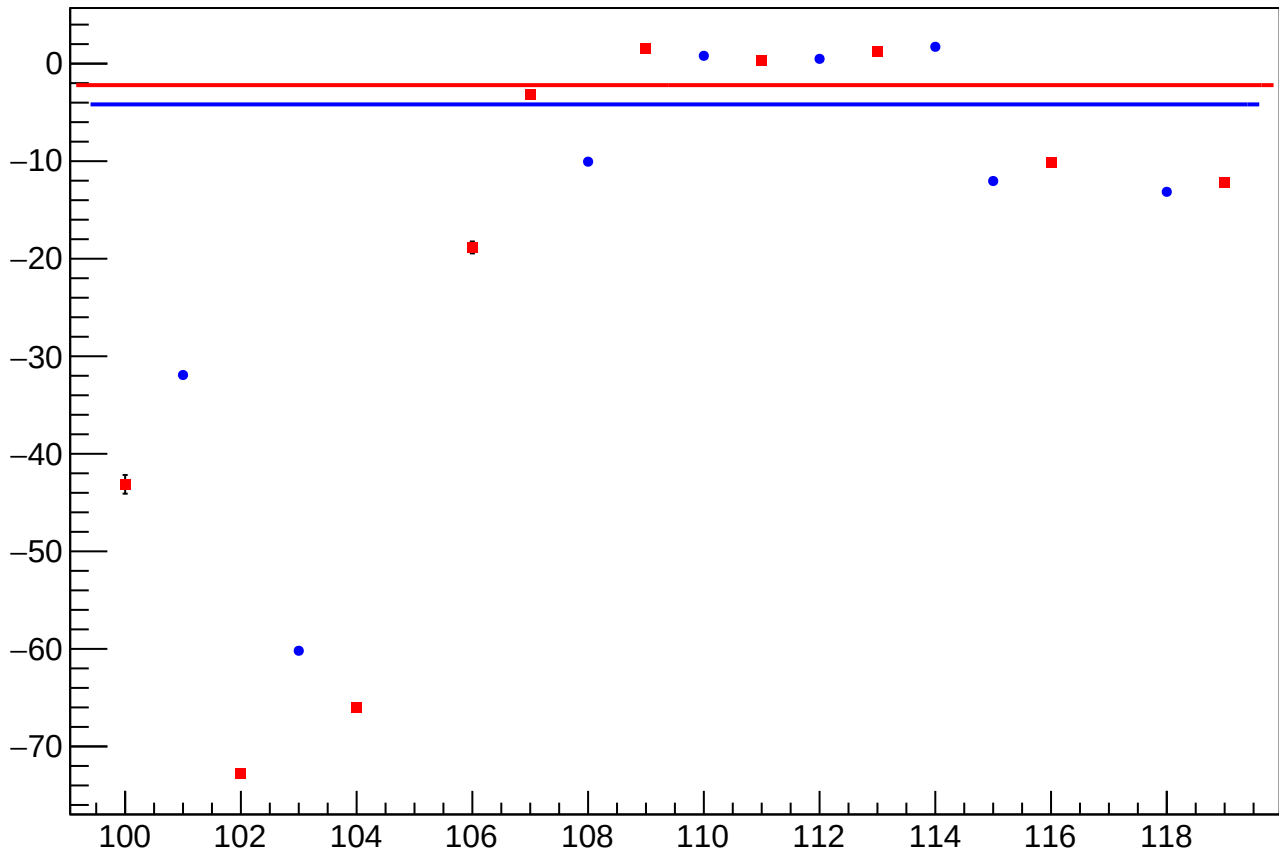
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.103 \pm 0.004$   $\chi^2/\text{NDF}$ : 17388.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_an\_us\_diff\_bpm1X\_slope vs Slug



Right In: -4.179+/-0.068  $\chi^2/\text{NDF}$ : 31794.8/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.204+/-0.053  $\chi^2/\text{NDF}$ : 50609.3/9

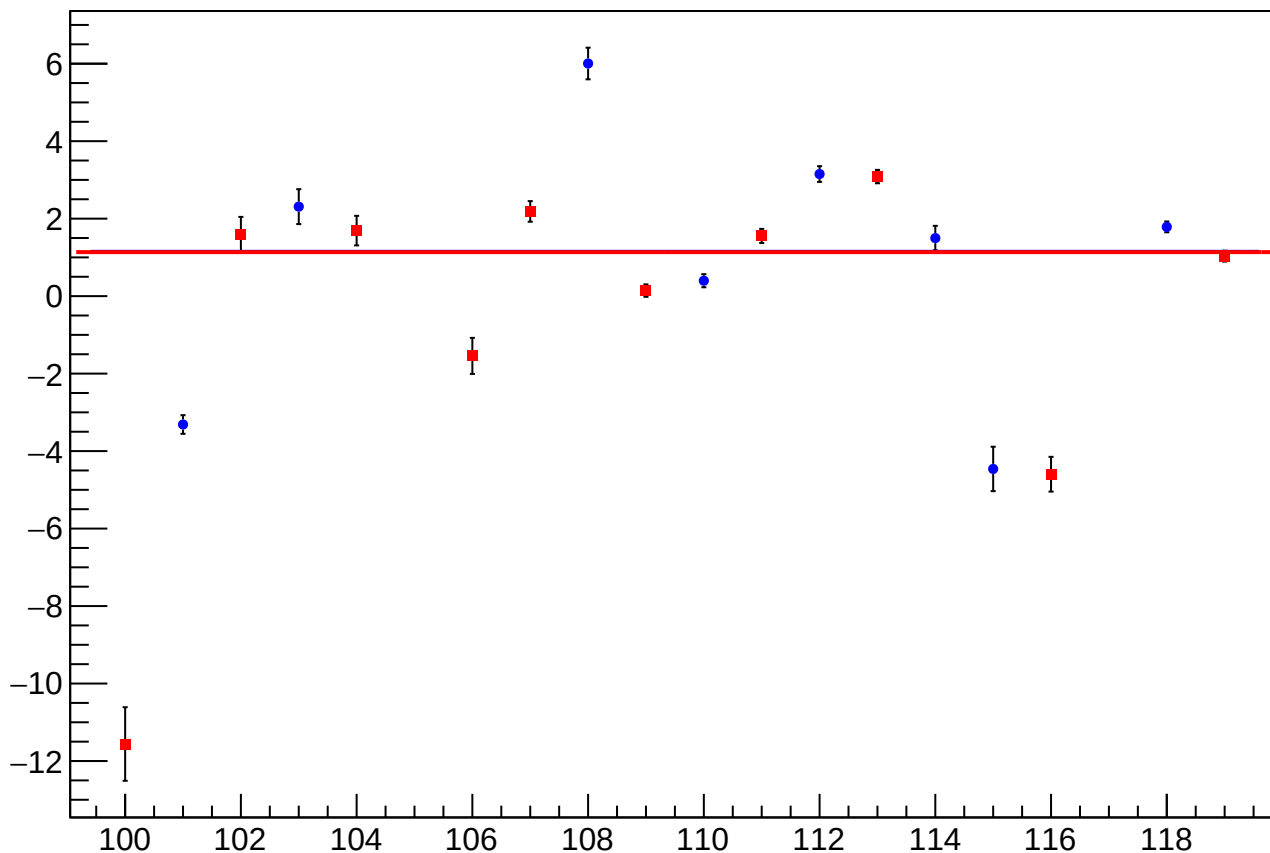
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.950+/-0.042  $\chi^2/\text{NDF}$ : 82927.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug



Right In: 1.143 $\pm$ 0.081  $\chi^2$ /NDF: 727.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.136 $\pm$ 0.072  $\chi^2$ /NDF: 565.7/9

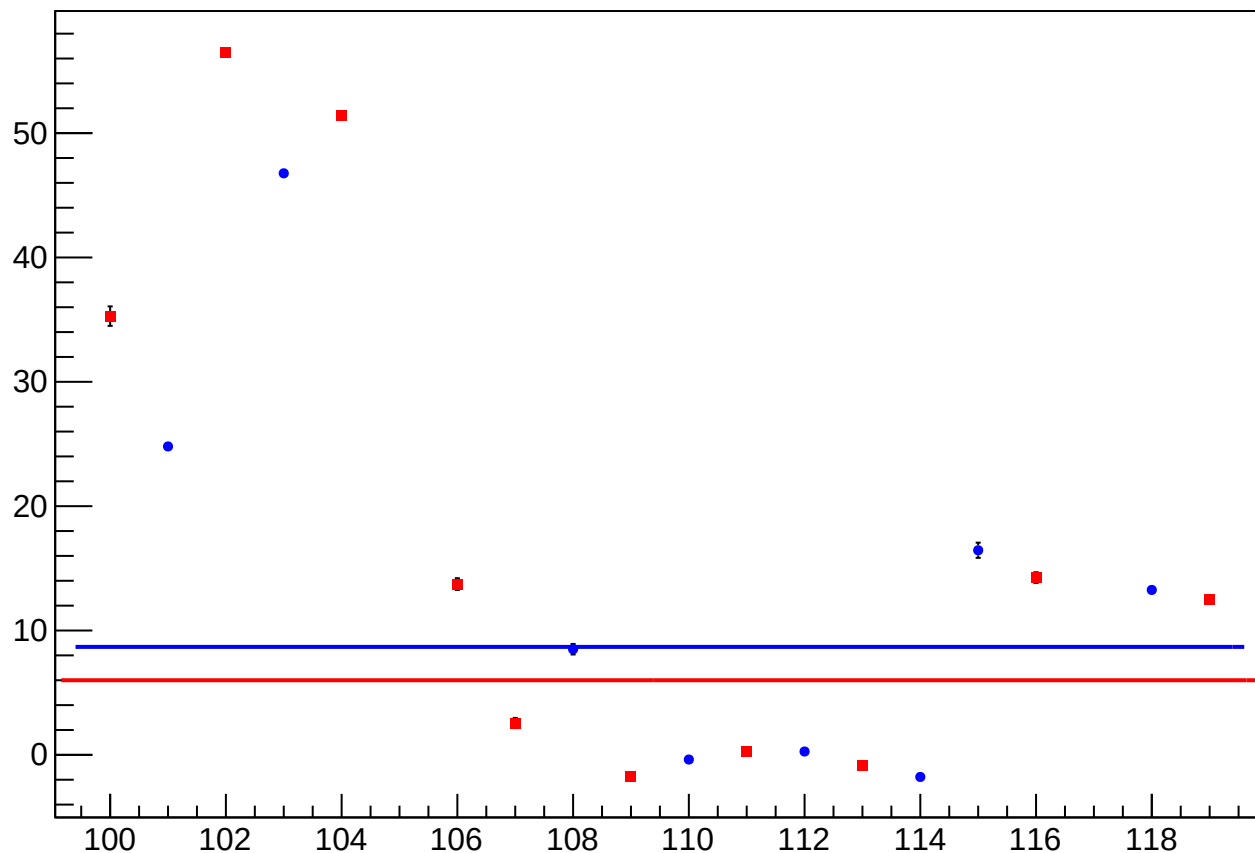
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.139 $\pm$ 0.054  $\chi^2$ /NDF: 1293.1/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs Slug



Right In: 8.683 $\pm$ 0.086  $\chi^2$ /NDF: 24675.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6.001 $\pm$ 0.072  $\chi^2$ /NDF: 44190.7/9

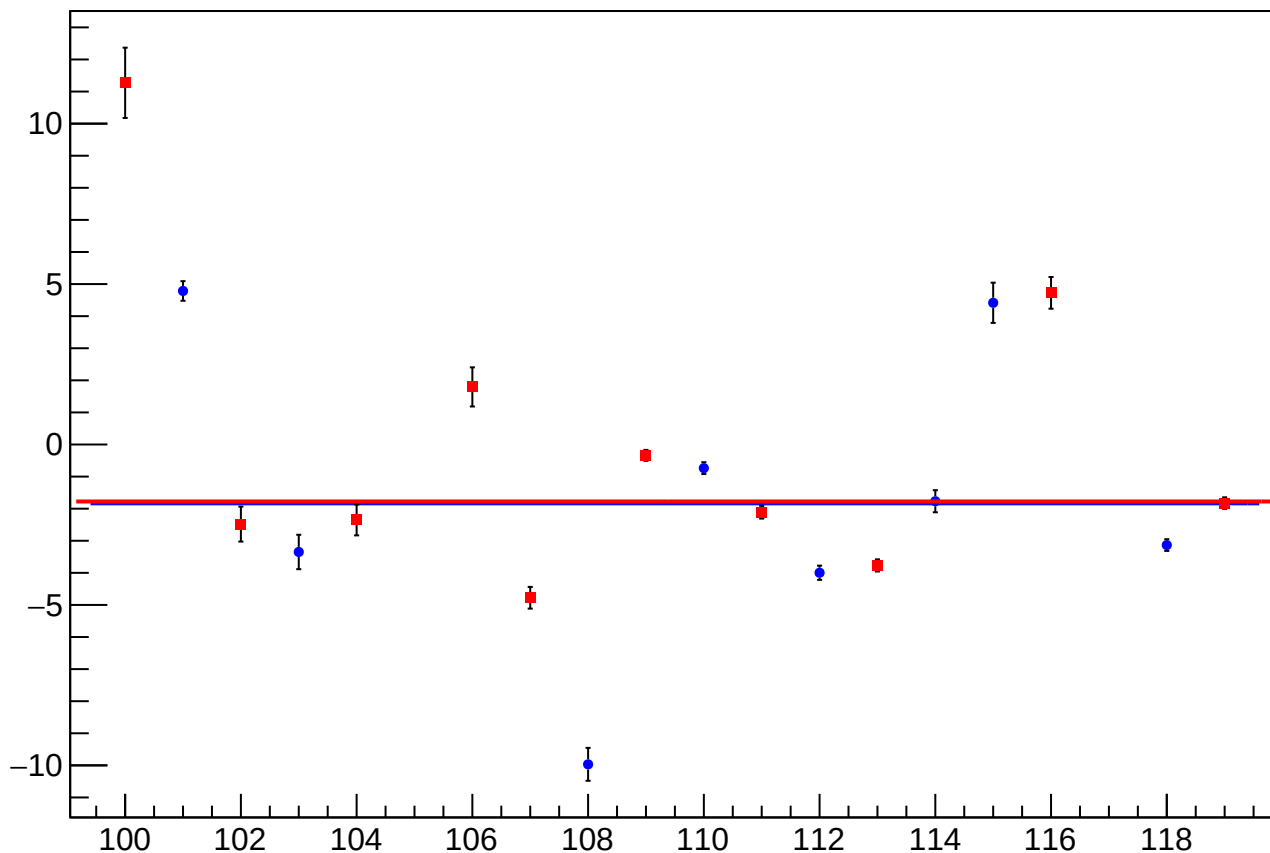
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.118 $\pm$ 0.055  $\chi^2$ /NDF: 69438.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug



Right In: -1.833+/-0.096  $\chi^2/\text{NDF}$ : 1009.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.776+/-0.083  $\chi^2/\text{NDF}$ : 617.0/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

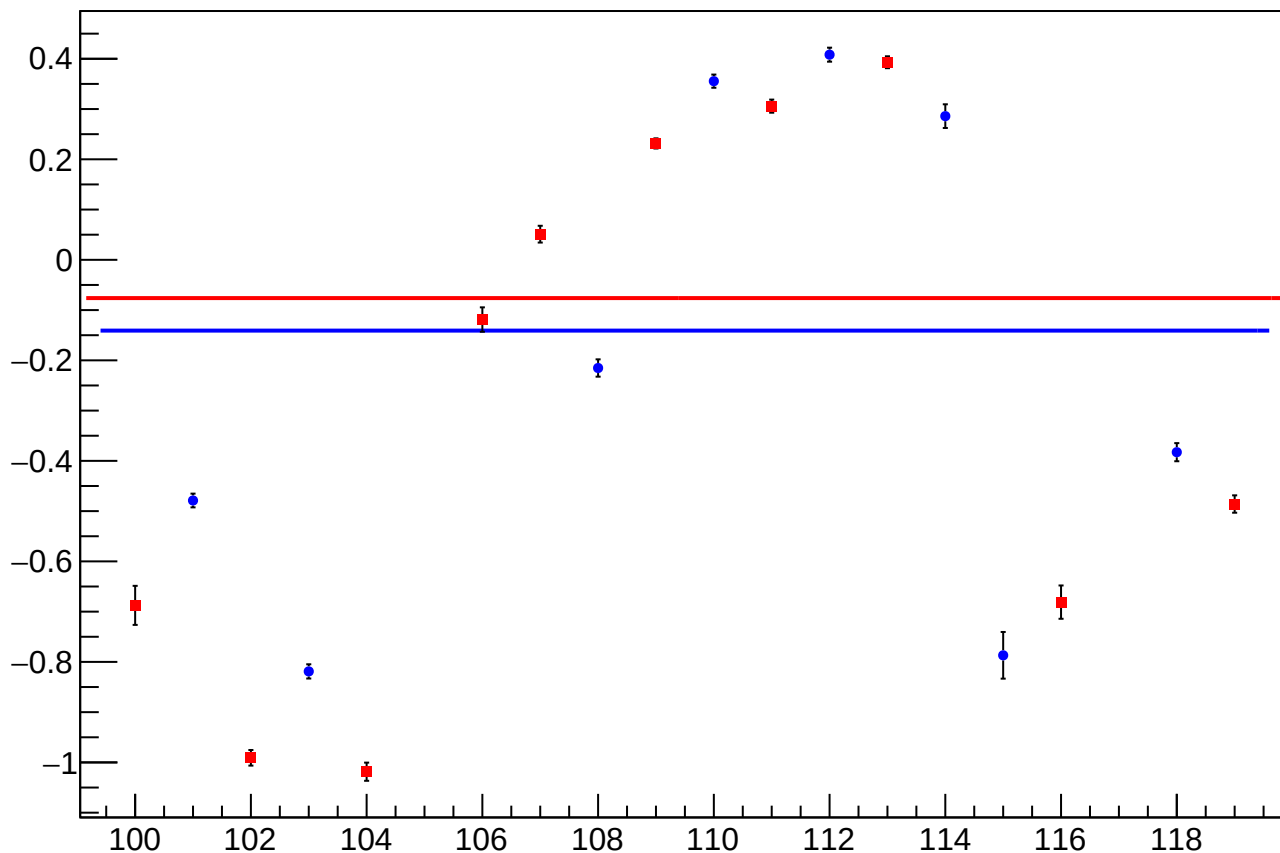
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.800+/-0.063  $\chi^2/\text{NDF}$ : 1626.5/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.141 \pm 0.006$   $\chi^2/\text{NDF}$ : 6607.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.076 \pm 0.005$   $\chi^2/\text{NDF}$ : 10752.9/9

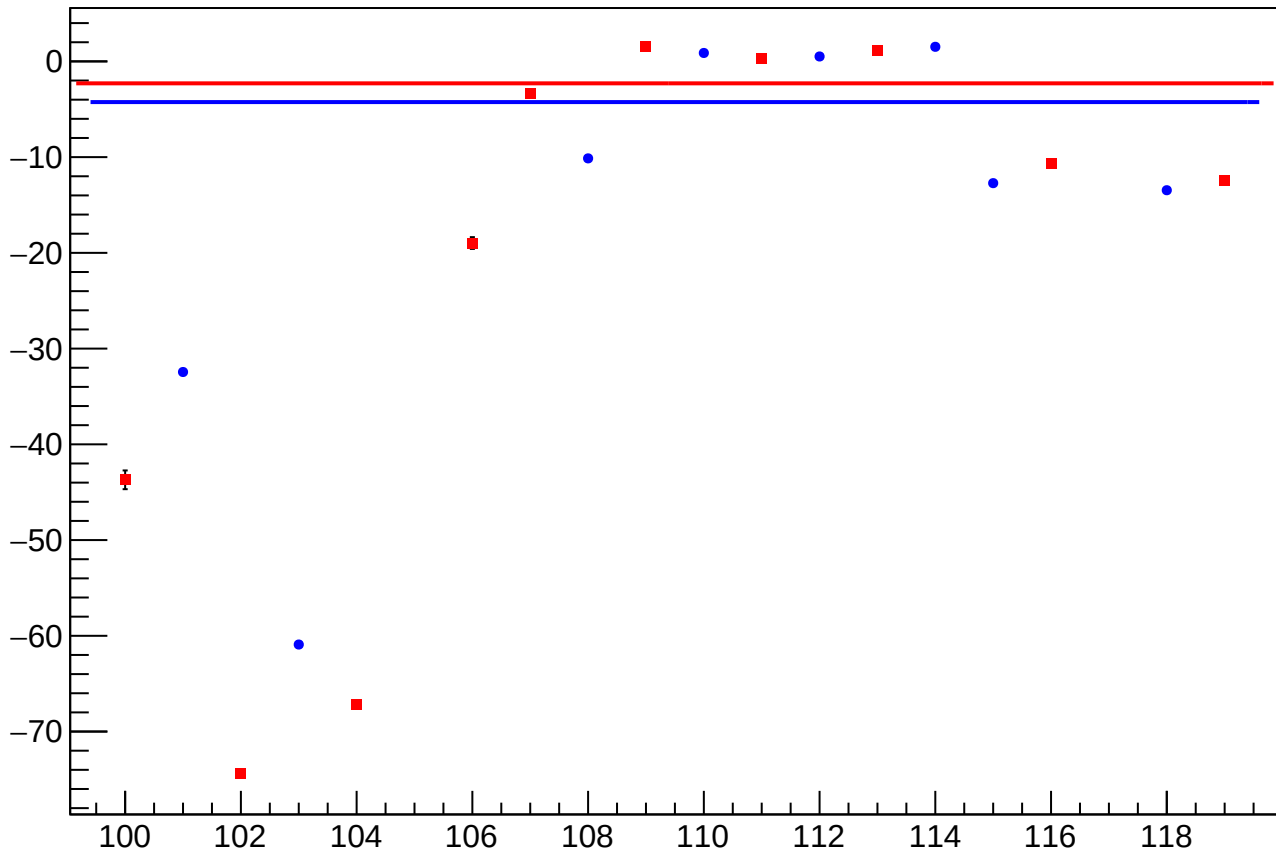
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.104 \pm 0.004$   $\chi^2/\text{NDF}$ : 17432.1/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm1X\_slope vs Slug



Right In: -4.250+/-0.070  $\chi^2/\text{NDF}$ : 31395.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.293+/-0.054  $\chi^2/\text{NDF}$ : 50242.4/9

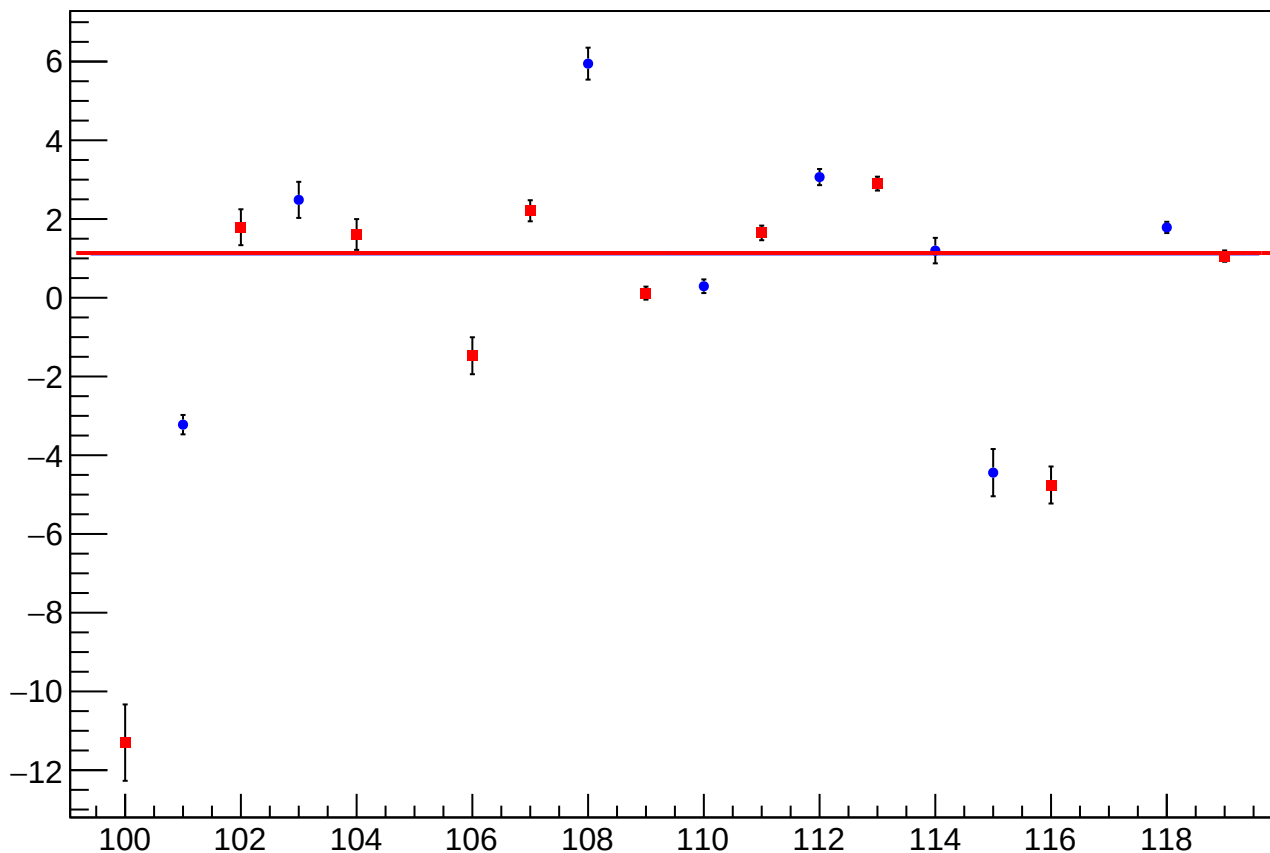
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.036+/-0.043  $\chi^2/\text{NDF}$ : 82128.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug



Right In: 1.127 $\pm$ 0.083  $\chi^2$ /NDF: 681.5/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.136 $\pm$ 0.074  $\chi^2$ /NDF: 518.3/9

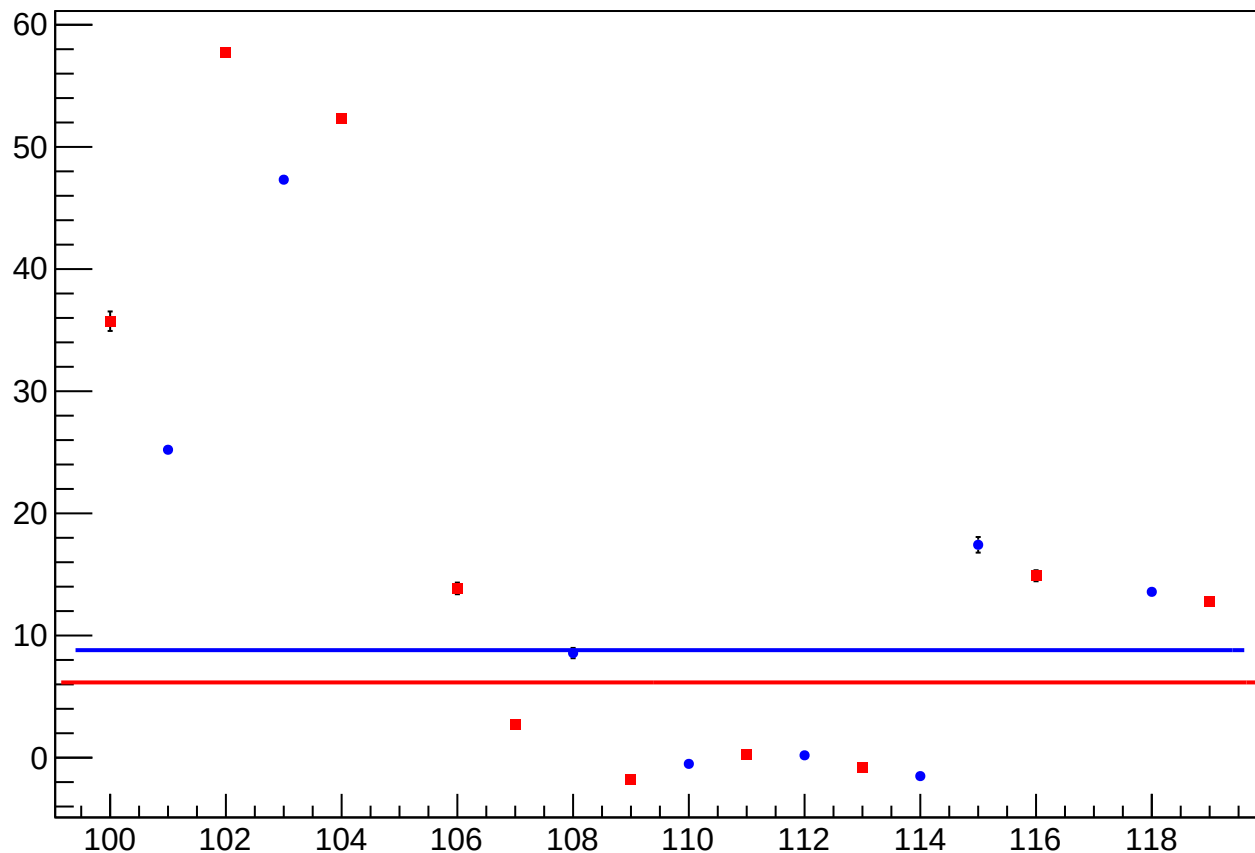
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.132 $\pm$ 0.055  $\chi^2$ /NDF: 1199.8/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug



Right In:  $8.802 \pm 0.088$   $\chi^2/\text{NDF}$ : 24403.4/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $6.160 \pm 0.074$   $\chi^2/\text{NDF}$ : 43877.2/9

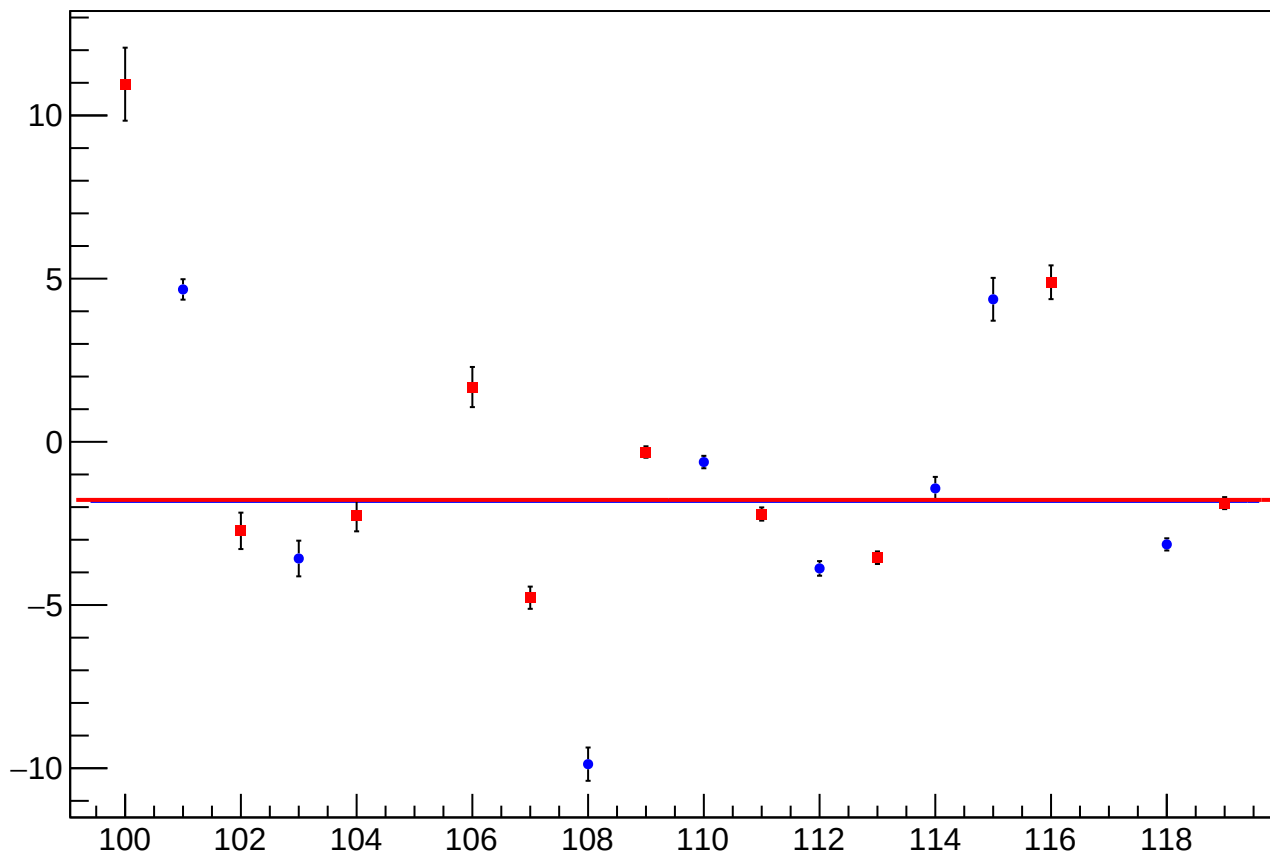
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $7.264 \pm 0.057$   $\chi^2/\text{NDF}$ : 68811.5/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug



Right In: -1.810 $\pm$ 0.098  $\chi^2$ /NDF: 954.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.779 $\pm$ 0.086  $\chi^2$ /NDF: 568.3/9

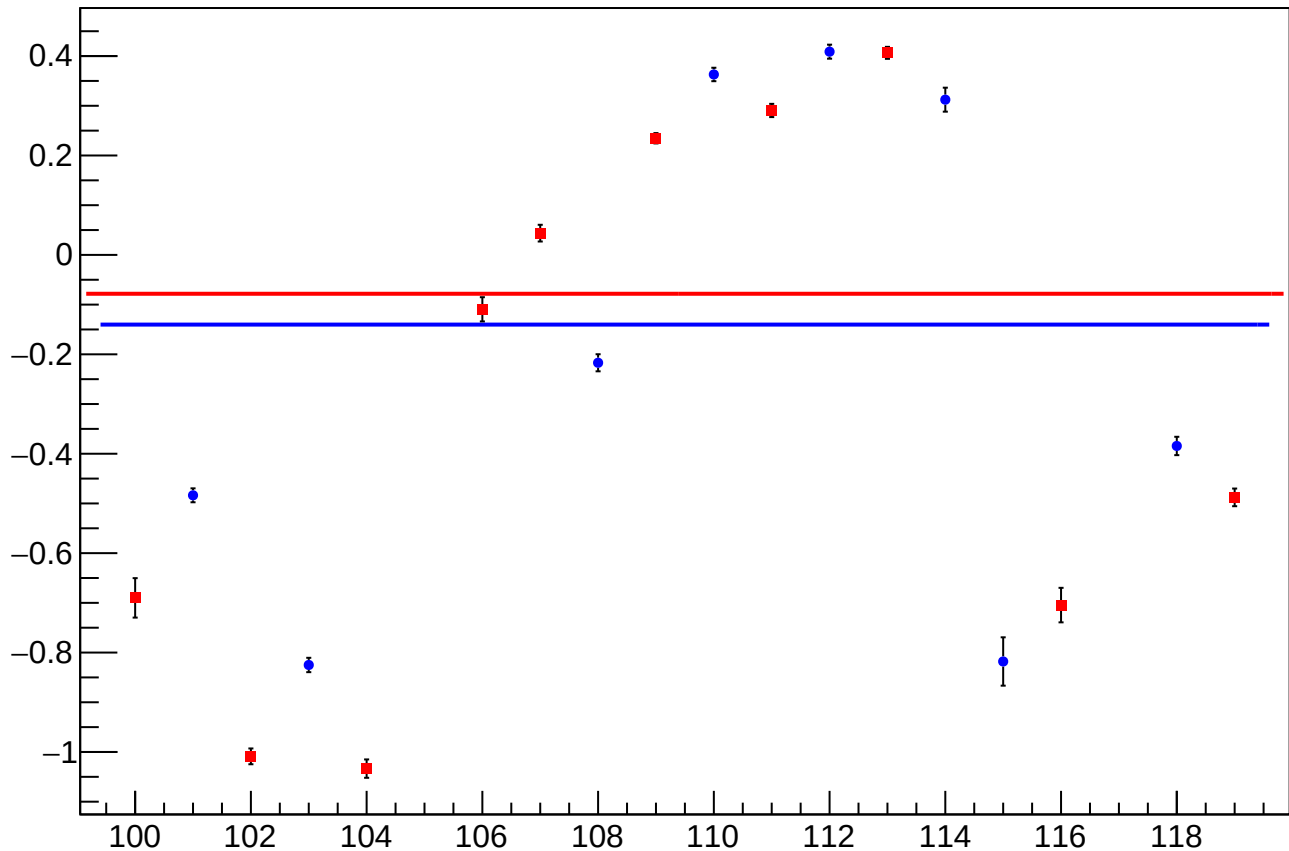
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.792 $\pm$ 0.064  $\chi^2$ /NDF: 1522.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.140 \pm 0.006$   $\chi^2/\text{NDF}$ : 6493.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.078 \pm 0.005$   $\chi^2/\text{NDF}$ : 10540.4/9

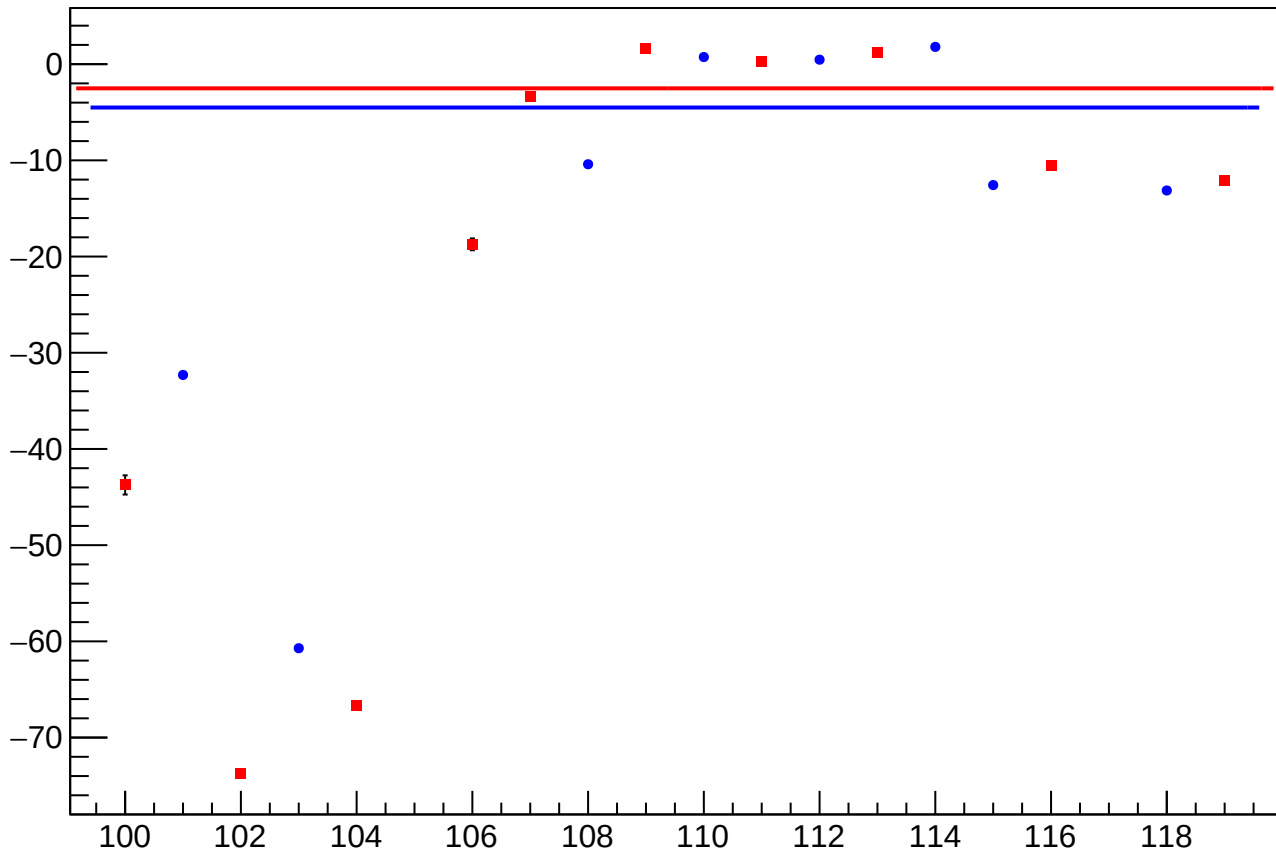
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.105 \pm 0.004$   $\chi^2/\text{NDF}$ : 17097.5/17

- 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: -4.508+/-0.072  $\chi^2/\text{NDF}$ : 30560.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.516+/-0.056  $\chi^2/\text{NDF}$ : 49182.2/9

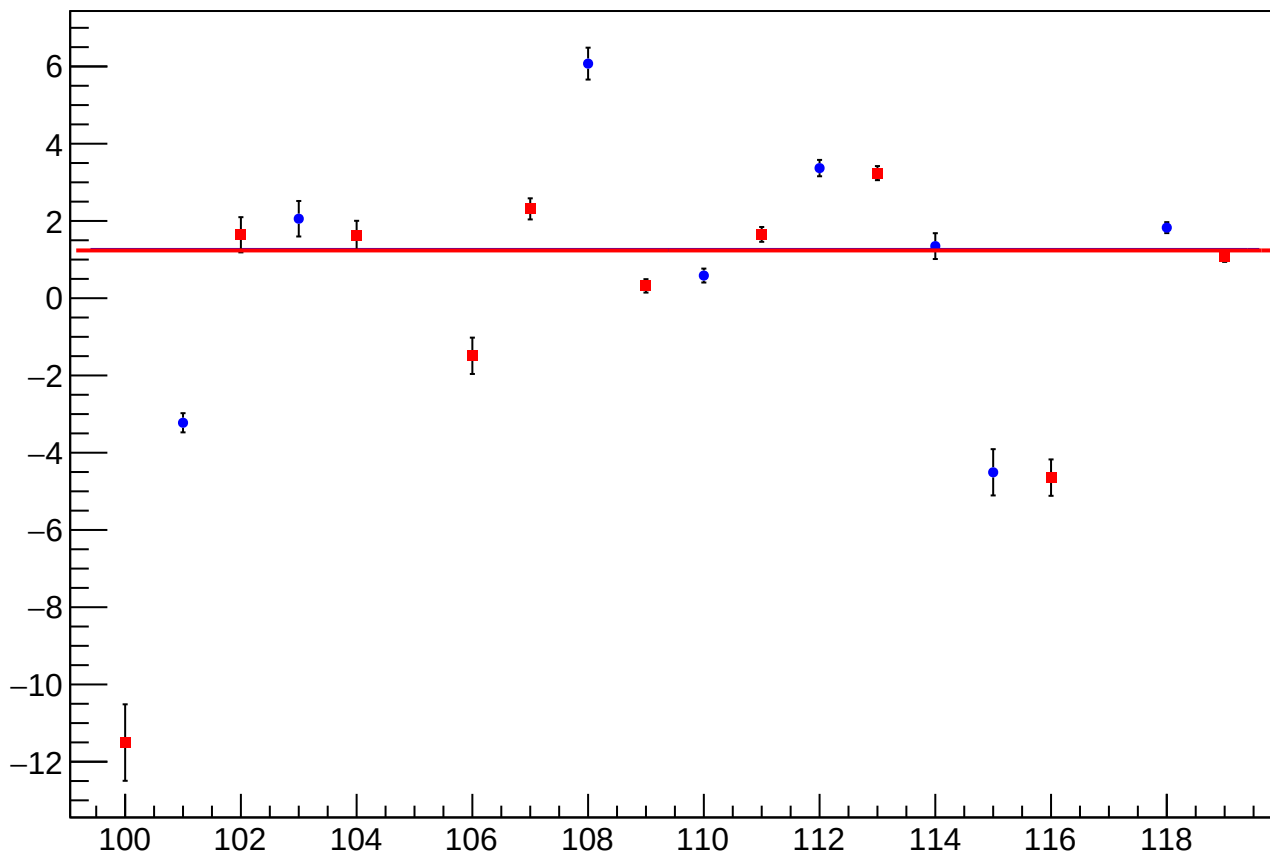
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.278+/-0.044  $\chi^2/\text{NDF}$ : 80221.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug



Right In: 1.249 $\pm$ 0.084  $\chi^2$ /NDF: 687.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.237 $\pm$ 0.075  $\chi^2$ /NDF: 526.5/9

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

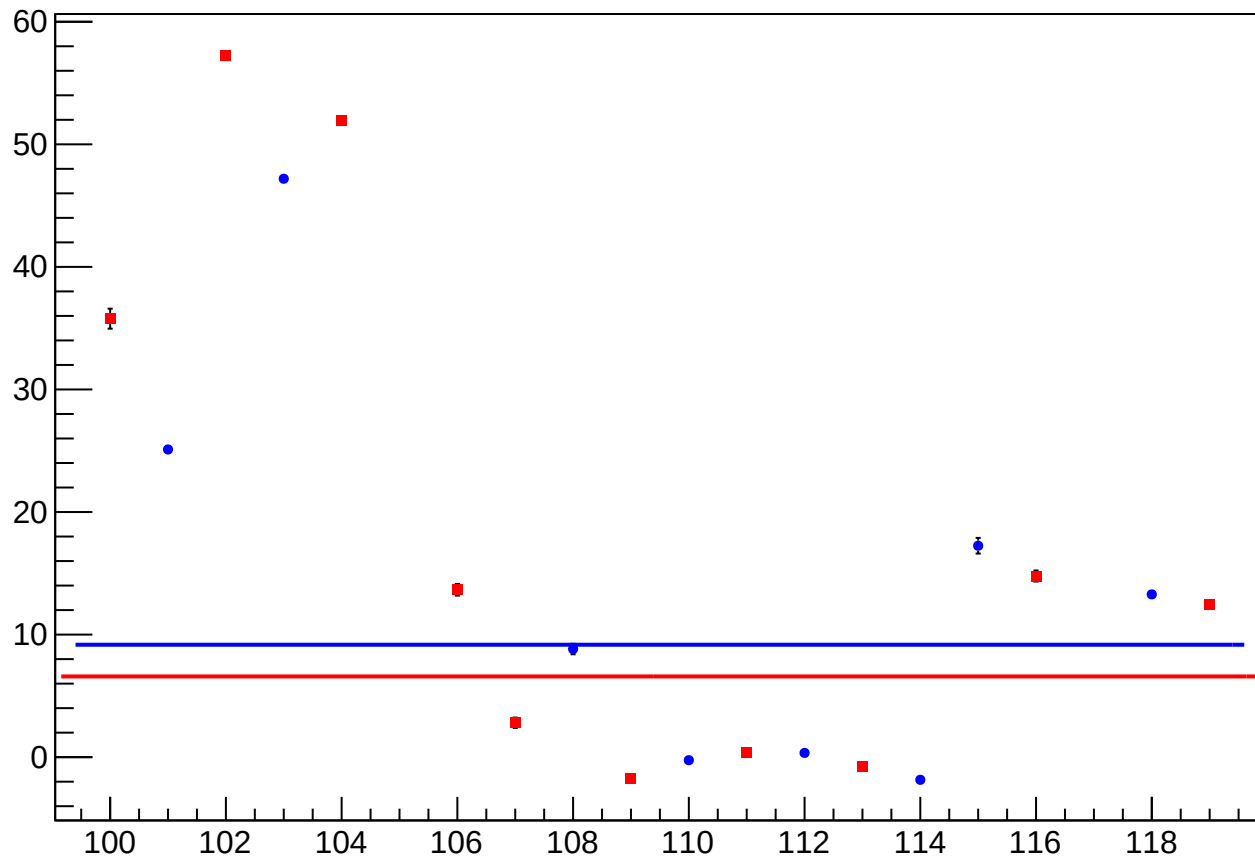
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.242 $\pm$ 0.056  $\chi^2$ /NDF: 1213.5/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug



Right In: 9.173+/-0.089  $\chi^2/\text{NDF}$ : 23463.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6.587+/-0.076  $\chi^2/\text{NDF}$ : 42510.2/9

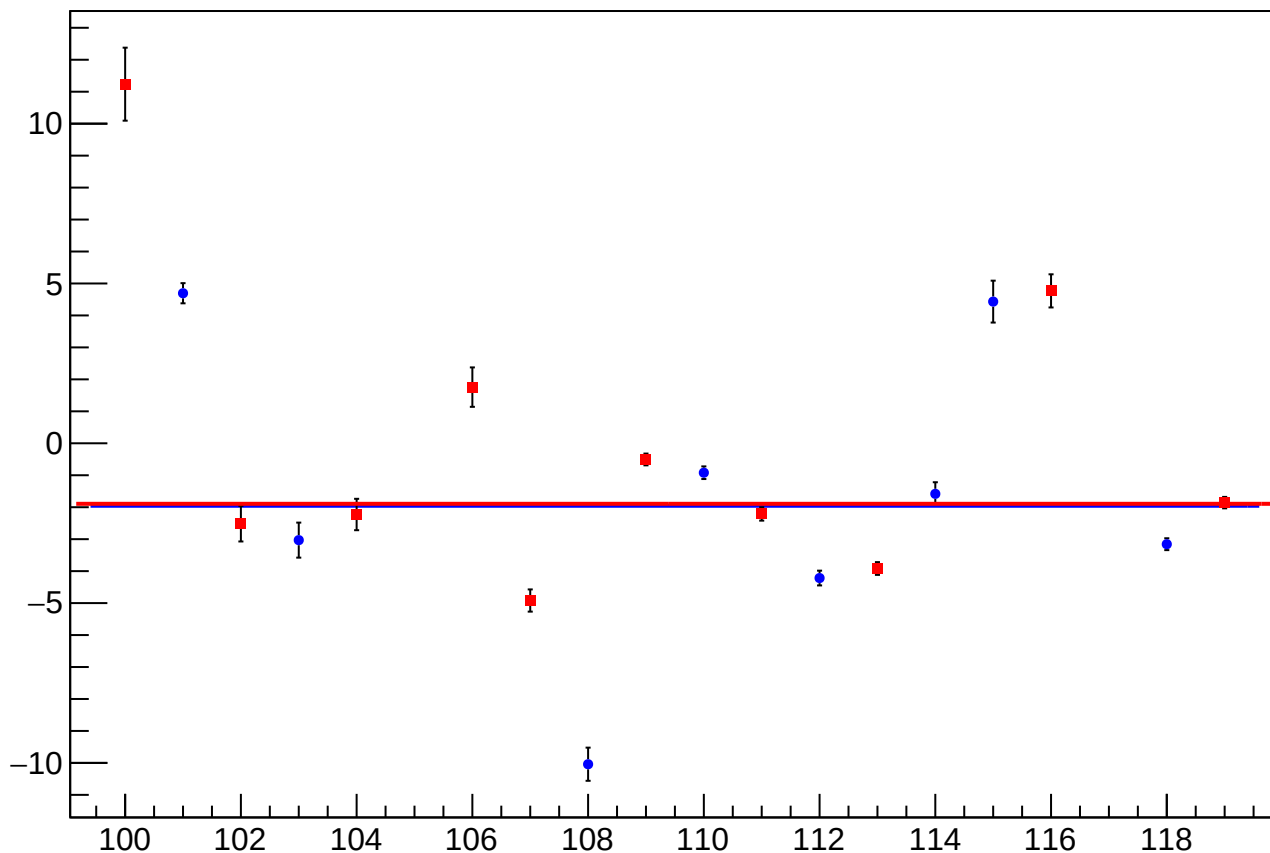
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.674+/-0.058  $\chi^2/\text{NDF}$ : 66459.4/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.954 \pm 0.100$   $\chi^2/\text{NDF}$ : 952.3/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.894 \pm 0.087$   $\chi^2/\text{NDF}$ : 571.8/9

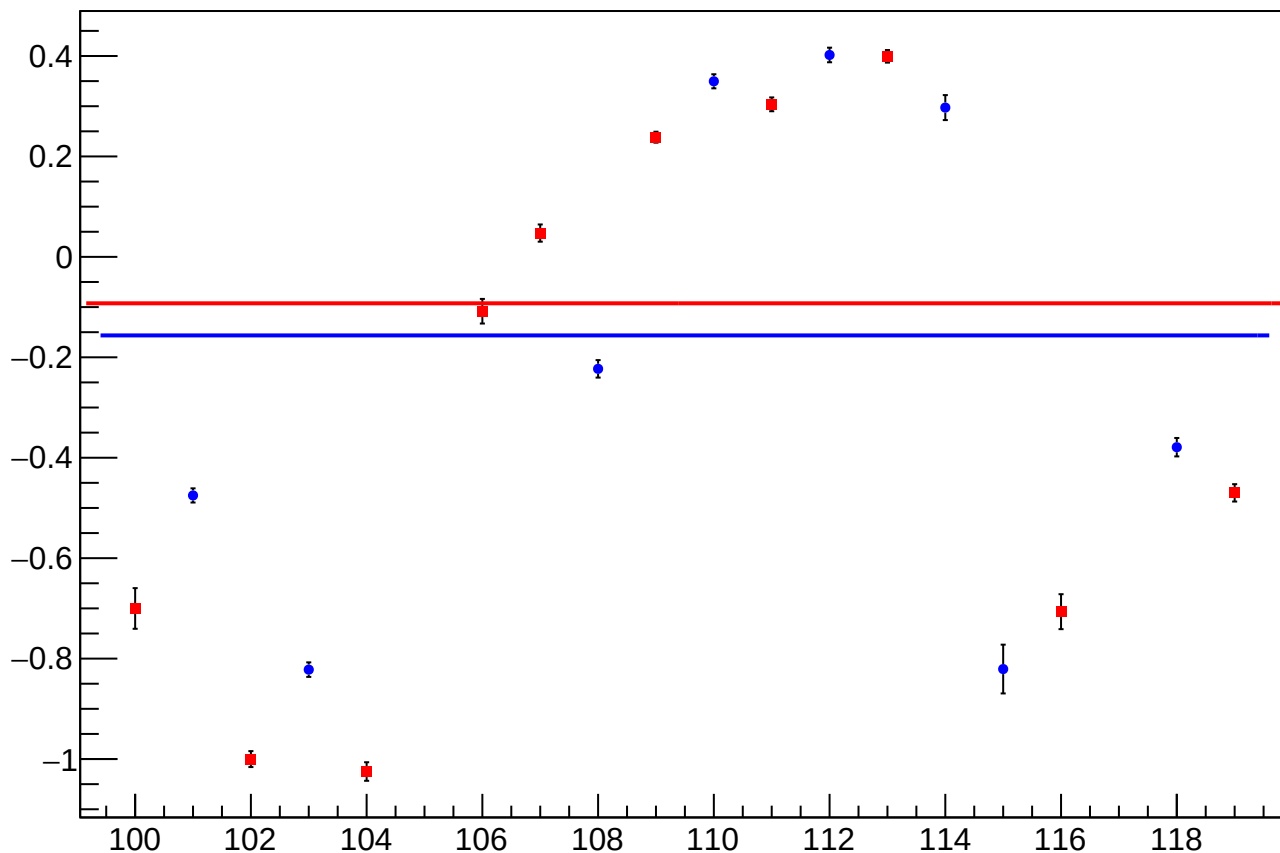
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.920 \pm 0.066$   $\chi^2/\text{NDF}$ : 1524.4/17

- 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:  $-0.156 \pm 0.006$   $\chi^2/\text{NDF}$ : 6084.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.092 \pm 0.005$   $\chi^2/\text{NDF}$ : 10197.3/9

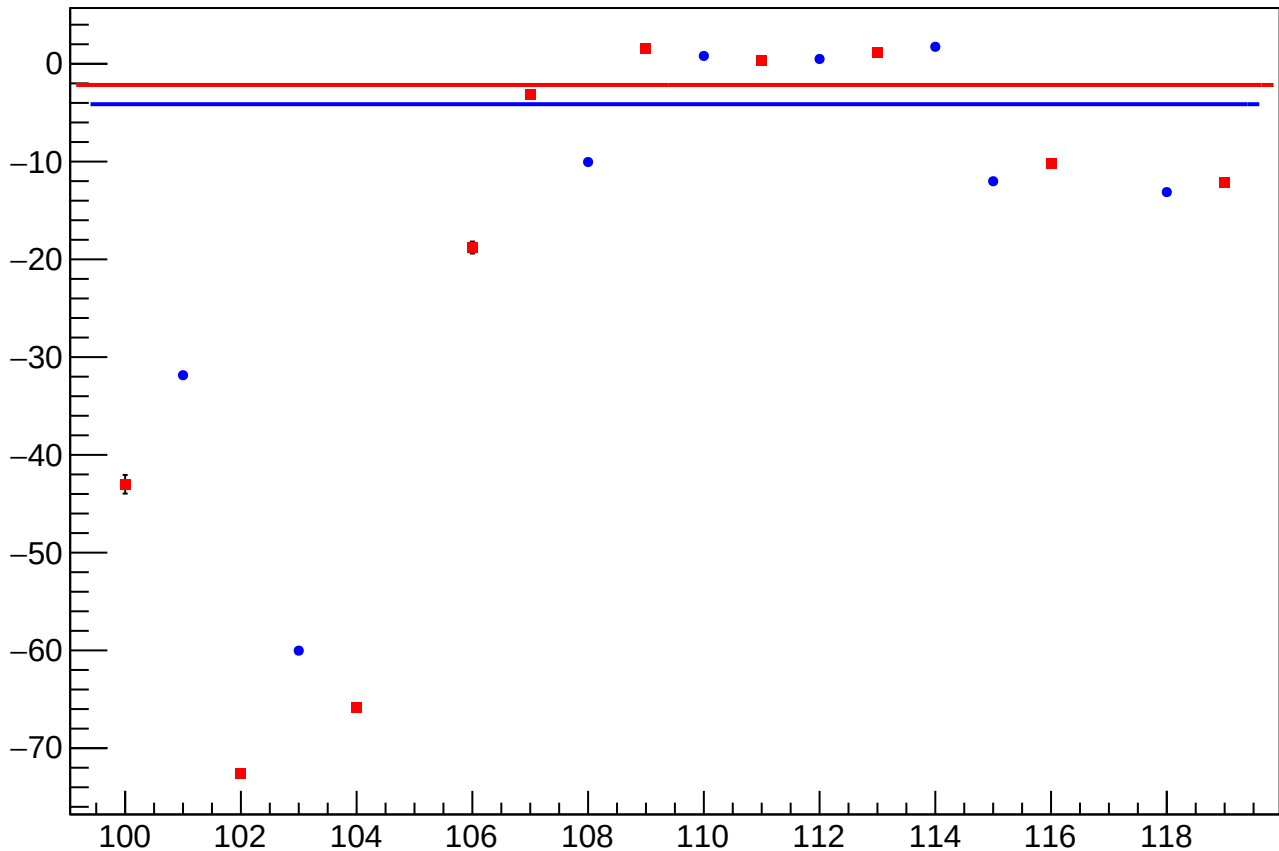
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.120 \pm 0.004$   $\chi^2/\text{NDF}$ : 16346.9/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -4.131+/-0.068  $\chi^2/\text{NDF}$ : 31871.6/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.163+/-0.053  $\chi^2/\text{NDF}$ : 50711.1/9

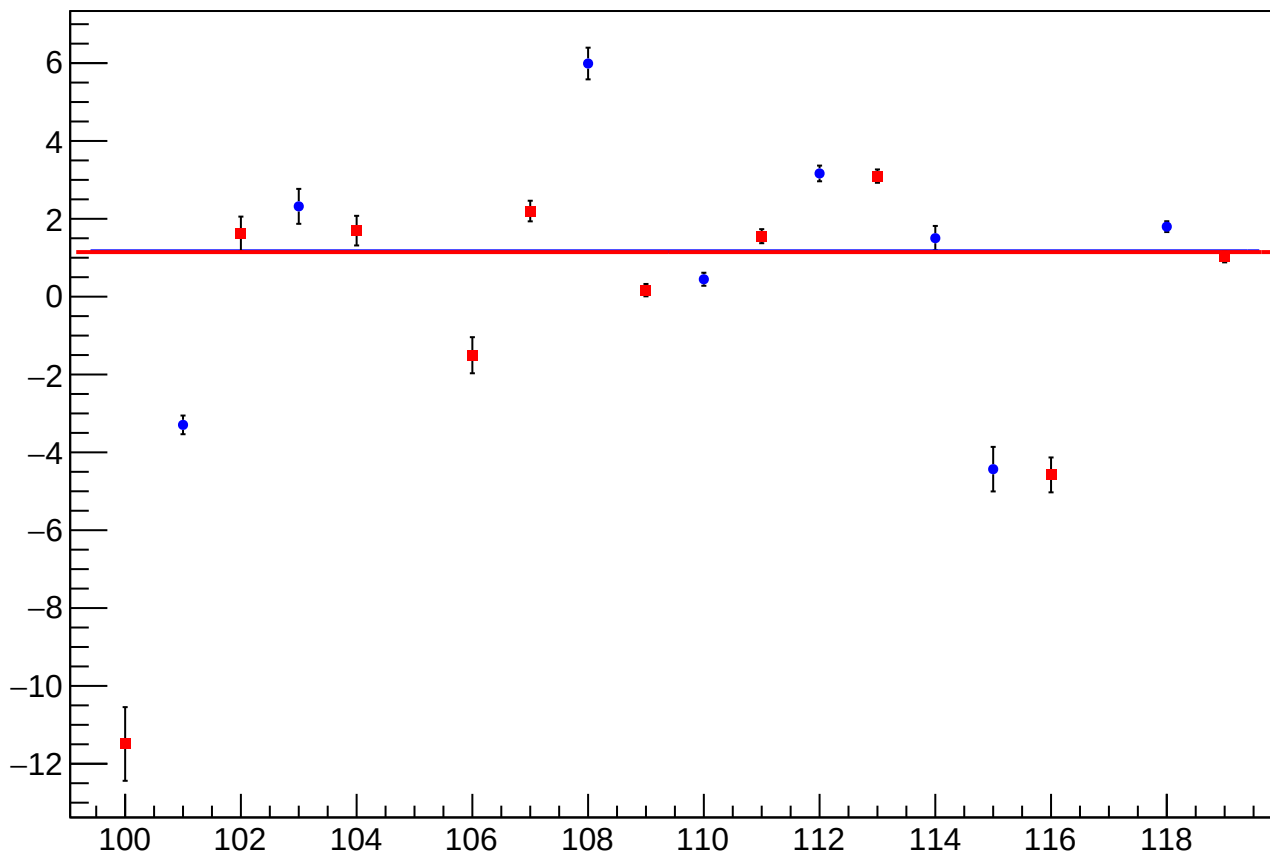
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.905+/-0.042  $\chi^2/\text{NDF}$ : 83109.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 1.165 $\pm$ 0.081  $\chi^2$ /NDF: 727.1/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.145 $\pm$ 0.072  $\chi^2$ /NDF: 566.6/9

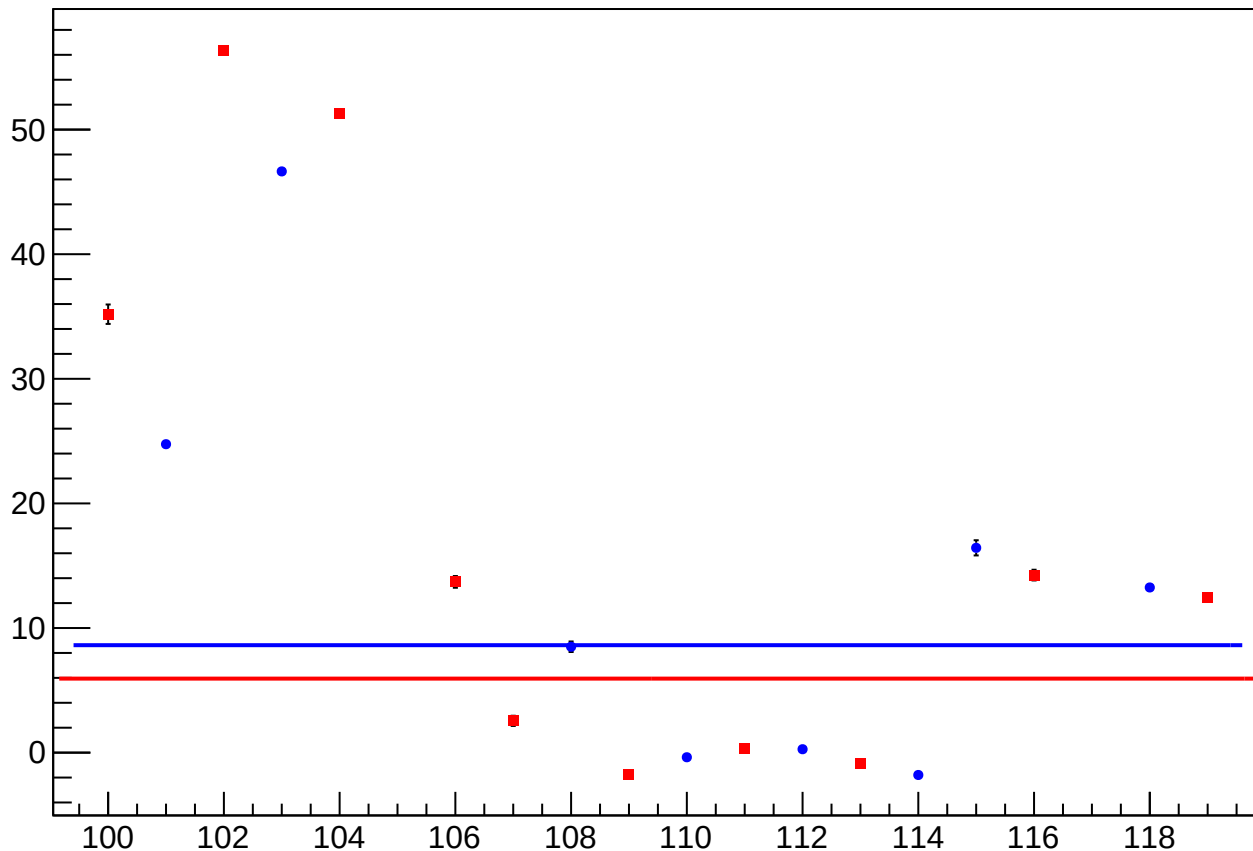
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.154 $\pm$ 0.054  $\chi^2$ /NDF: 1293.7/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 8.623+/-0.085  $\chi^2/\text{NDF}$ : 24756.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.941+/-0.072  $\chi^2/\text{NDF}$ : 44307.9/9

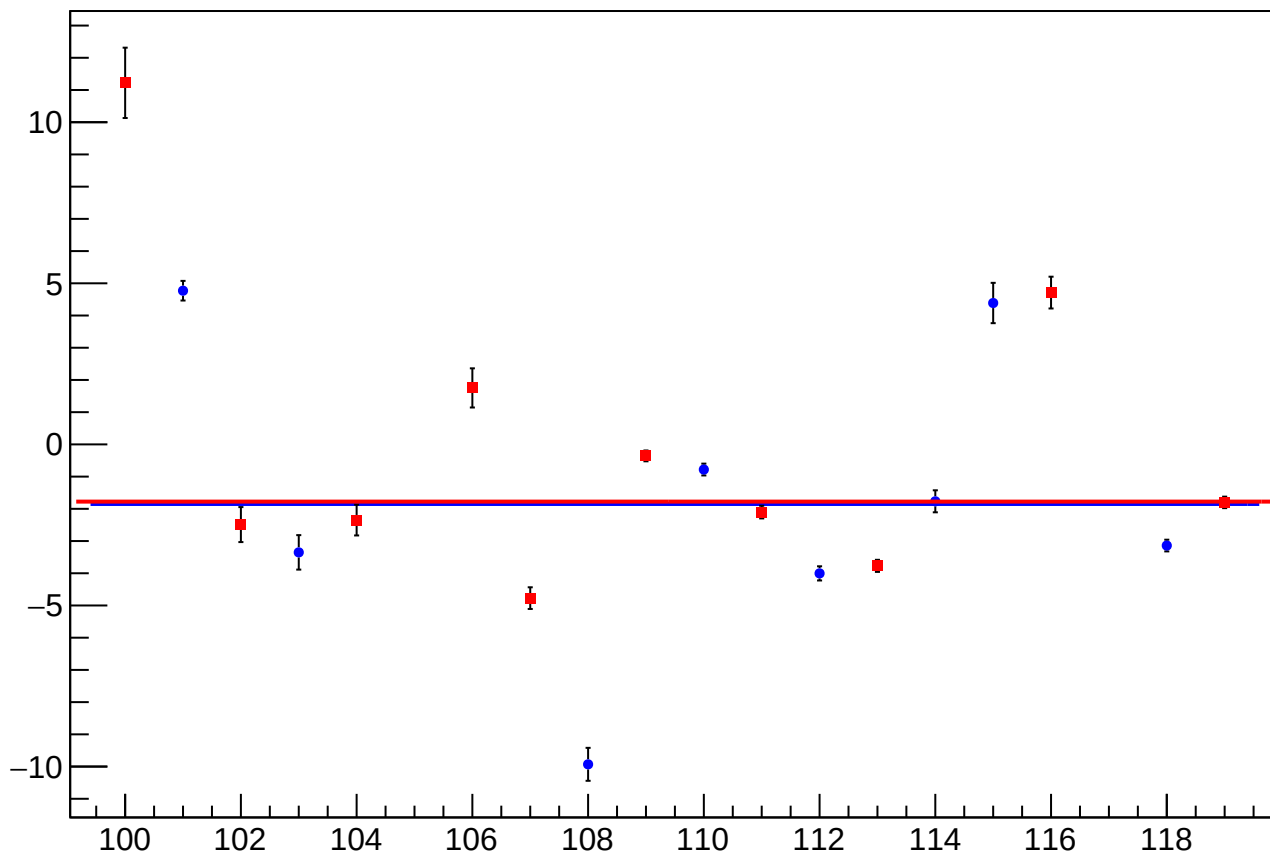
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.056+/-0.055  $\chi^2/\text{NDF}$ : 69644.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -1.849 $\pm$ 0.095  $\chi^2$ /NDF: 1008.9/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.776 $\pm$ 0.083  $\chi^2$ /NDF: 617.7/9

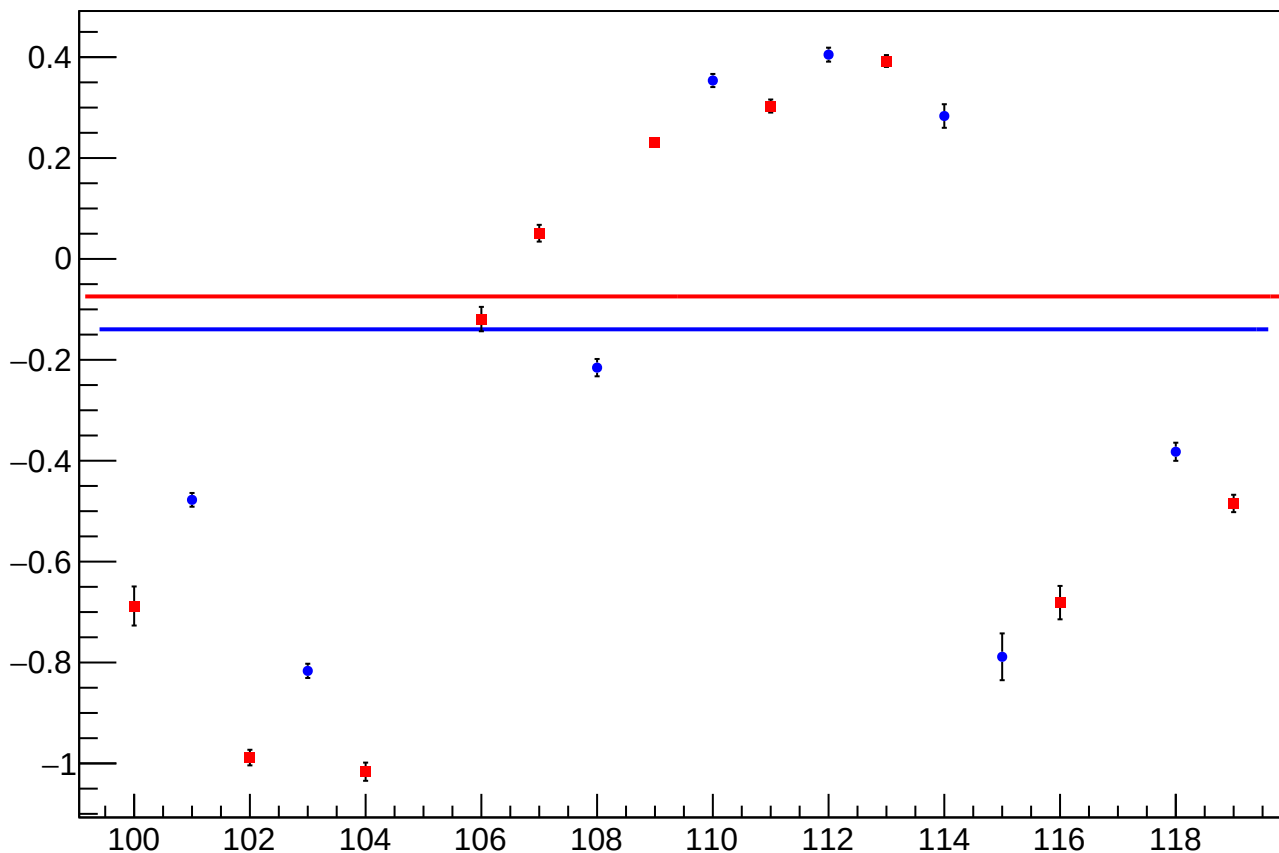
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.807 $\pm$ 0.063  $\chi^2$ /NDF: 1626.9/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.140 \pm 0.006$   $\chi^2/\text{NDF}$ : 6618.2/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.074 \pm 0.005$   $\chi^2/\text{NDF}$ : 10790.3/9

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

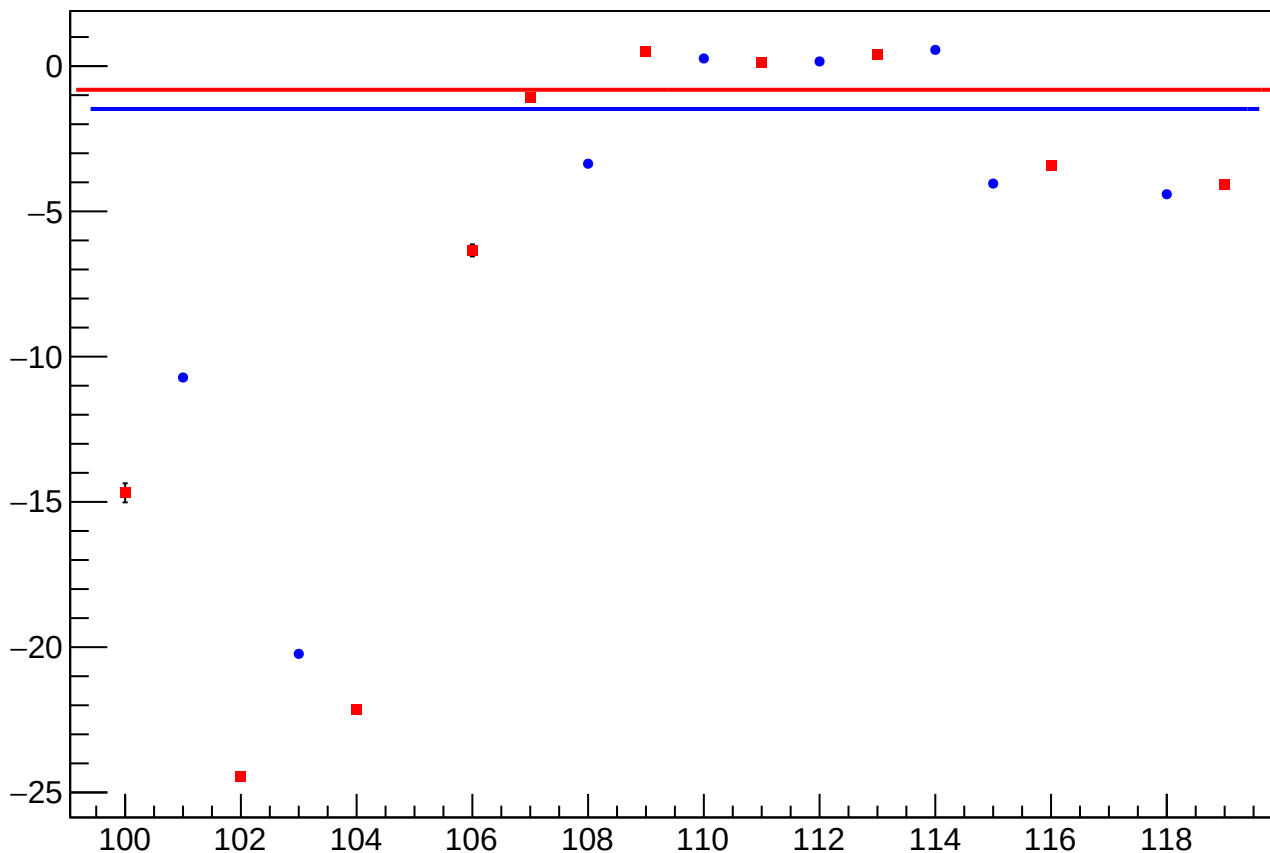
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.102 \pm 0.004$   $\chi^2/\text{NDF}$ : 17482.3/17

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_bcm\_2an\_us\_an\_ds\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -1.475+/-0.023  $\chi^2/\text{NDF}$ : 31186.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.815+/-0.018  $\chi^2/\text{NDF}$ : 49819.0/9

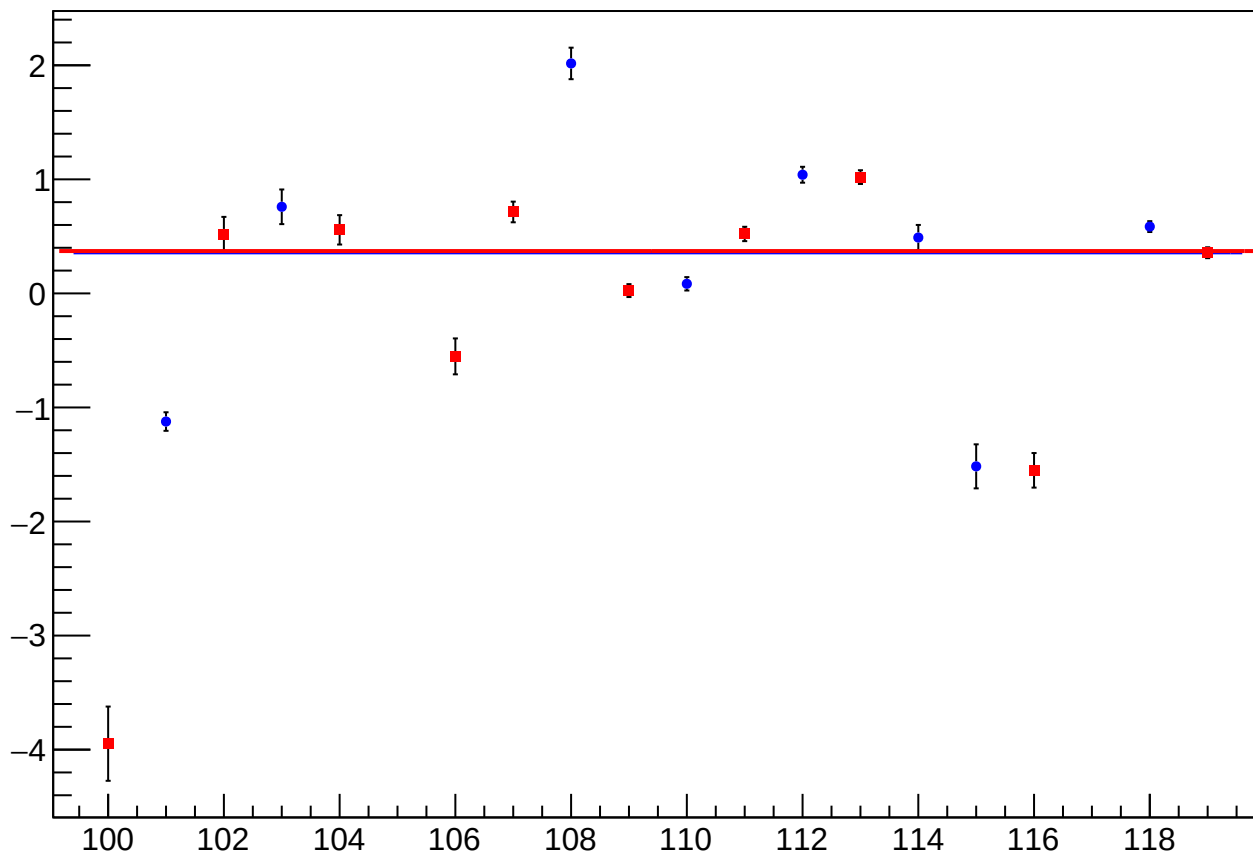
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.067+/-0.015  $\chi^2/\text{NDF}$ : 81493.9/17

- 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: 0.360 $\pm$ 0.028  $\chi^2$ /NDF: 719.2/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.371 $\pm$ 0.025  $\chi^2$ /NDF: 548.1/9

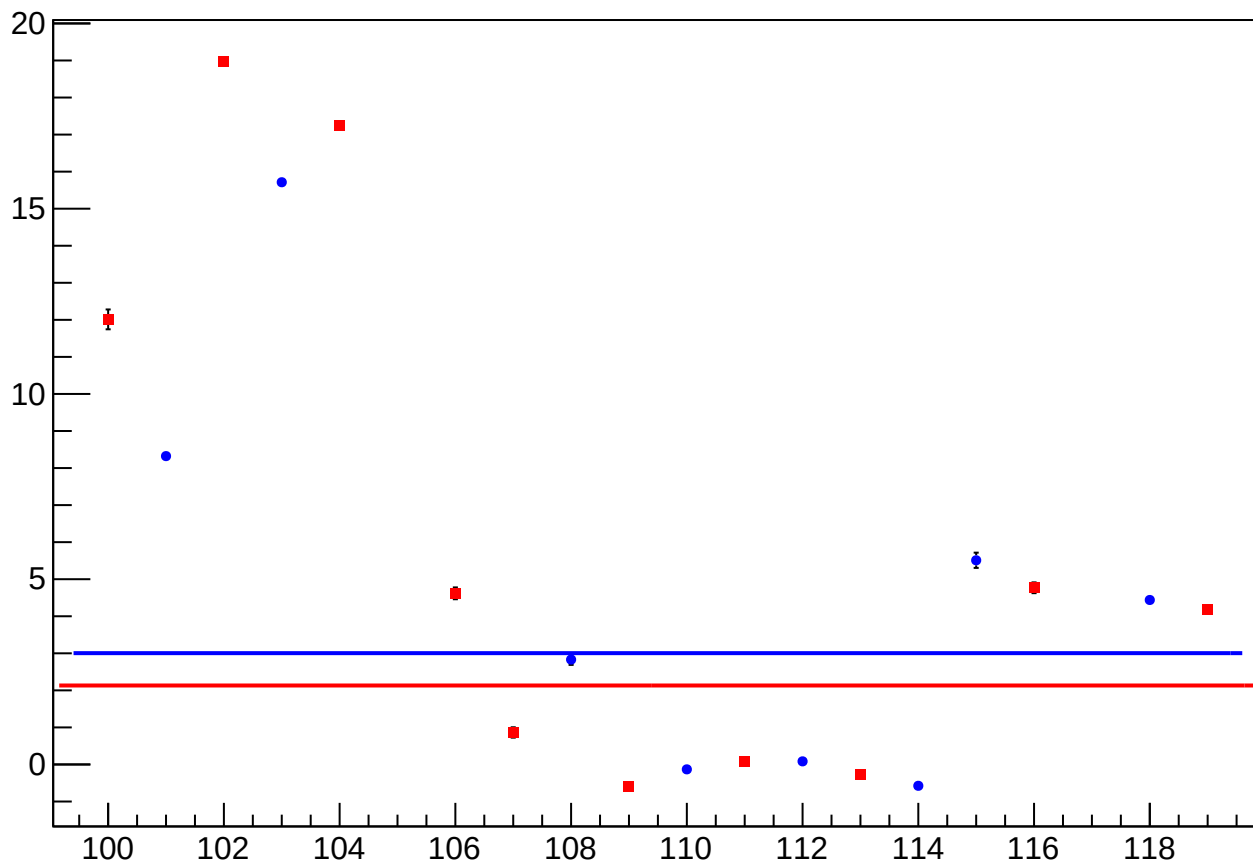
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.366 $\pm$ 0.019  $\chi^2$ /NDF: 1267.4/17

- 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: 3.004 $\pm$ 0.029  $\chi^2$ /NDF: 24057.4/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2.131 $\pm$ 0.025  $\chi^2$ /NDF: 43276.8/9

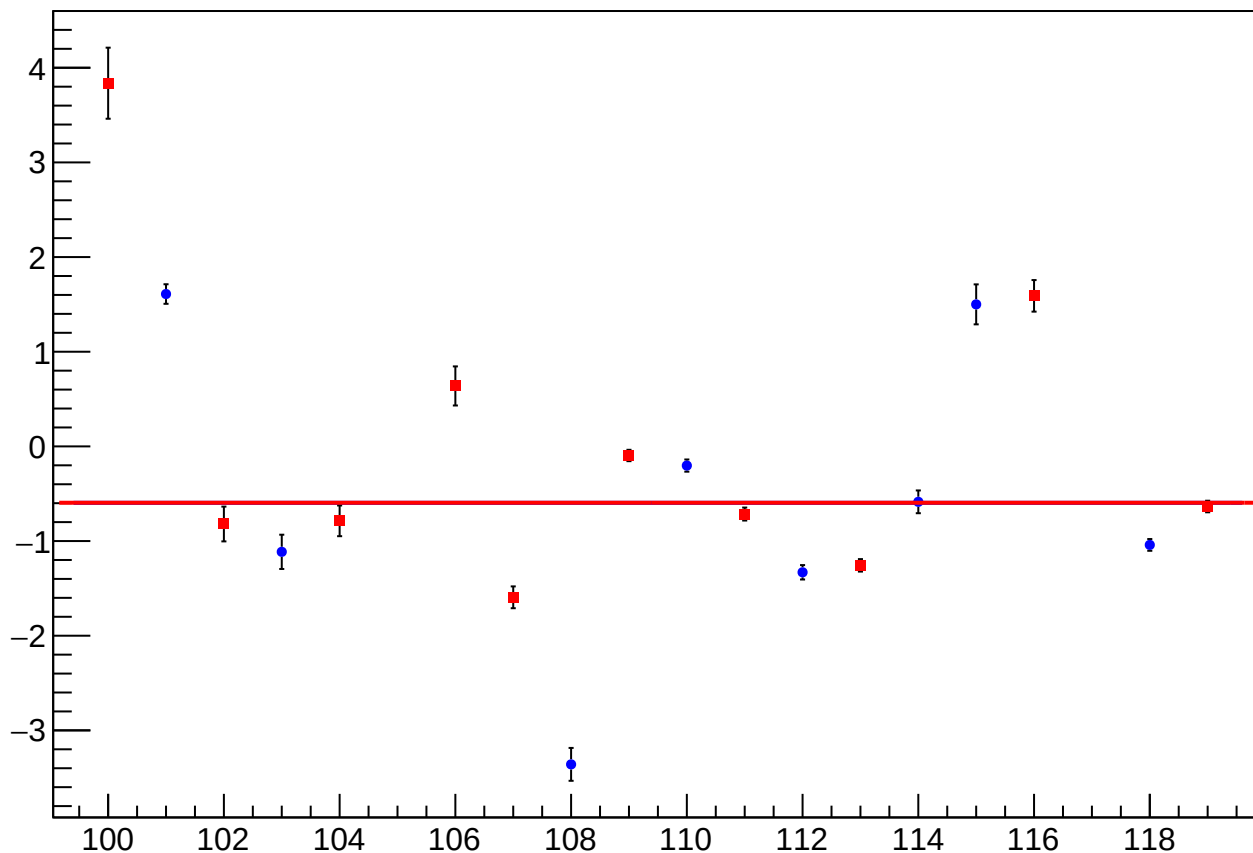
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.499 $\pm$ 0.019  $\chi^2$ /NDF: 67844.4/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.596 \pm 0.033$   $\chi^2/\text{NDF}$ : 997.6/7

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.595 \pm 0.029$   $\chi^2/\text{NDF}$ : 598.4/9

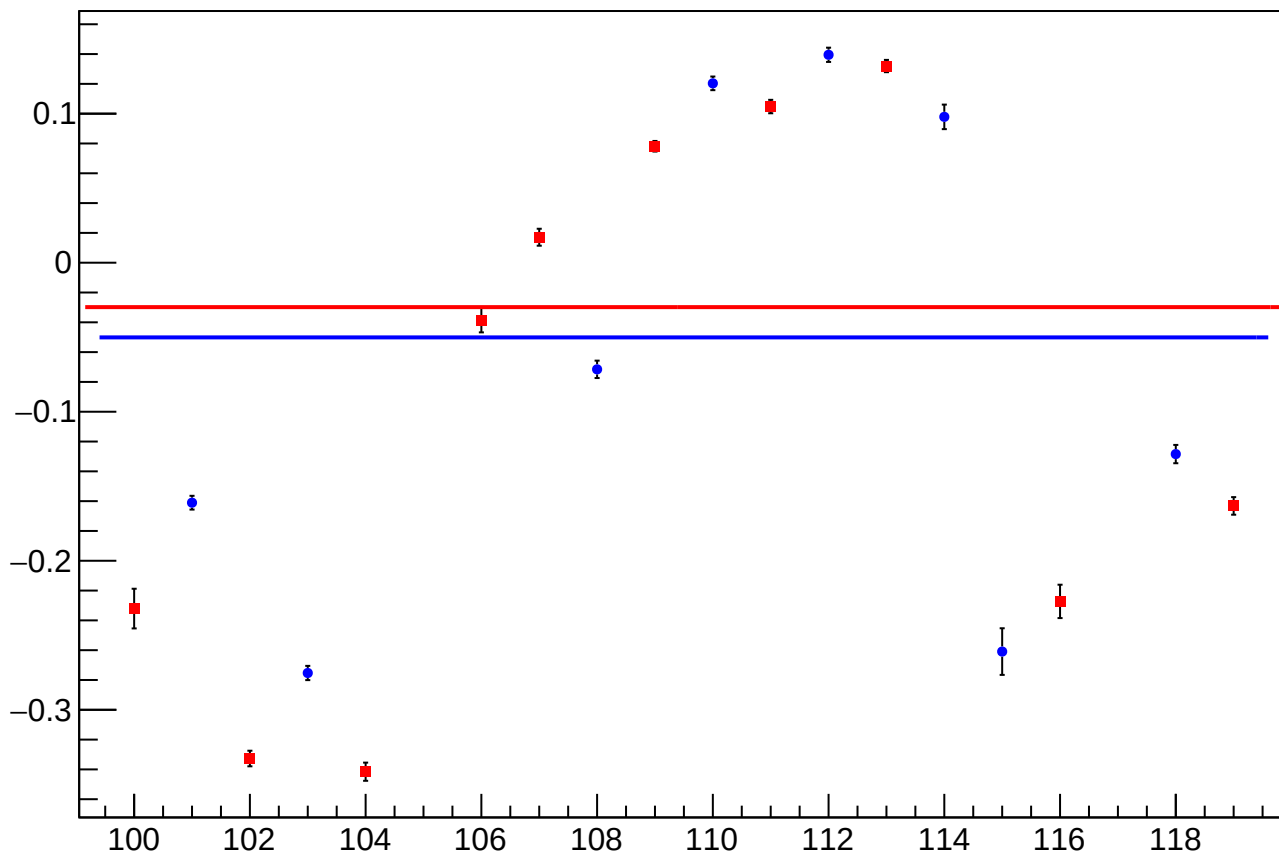
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.596 \pm 0.022$   $\chi^2/\text{NDF}$ : 1596.0/17

- 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: -0.050+/-0.002  $\chi^2/\text{NDF}$ : 6436.4/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.030+/-0.002  $\chi^2/\text{NDF}$ : 10435.5/9

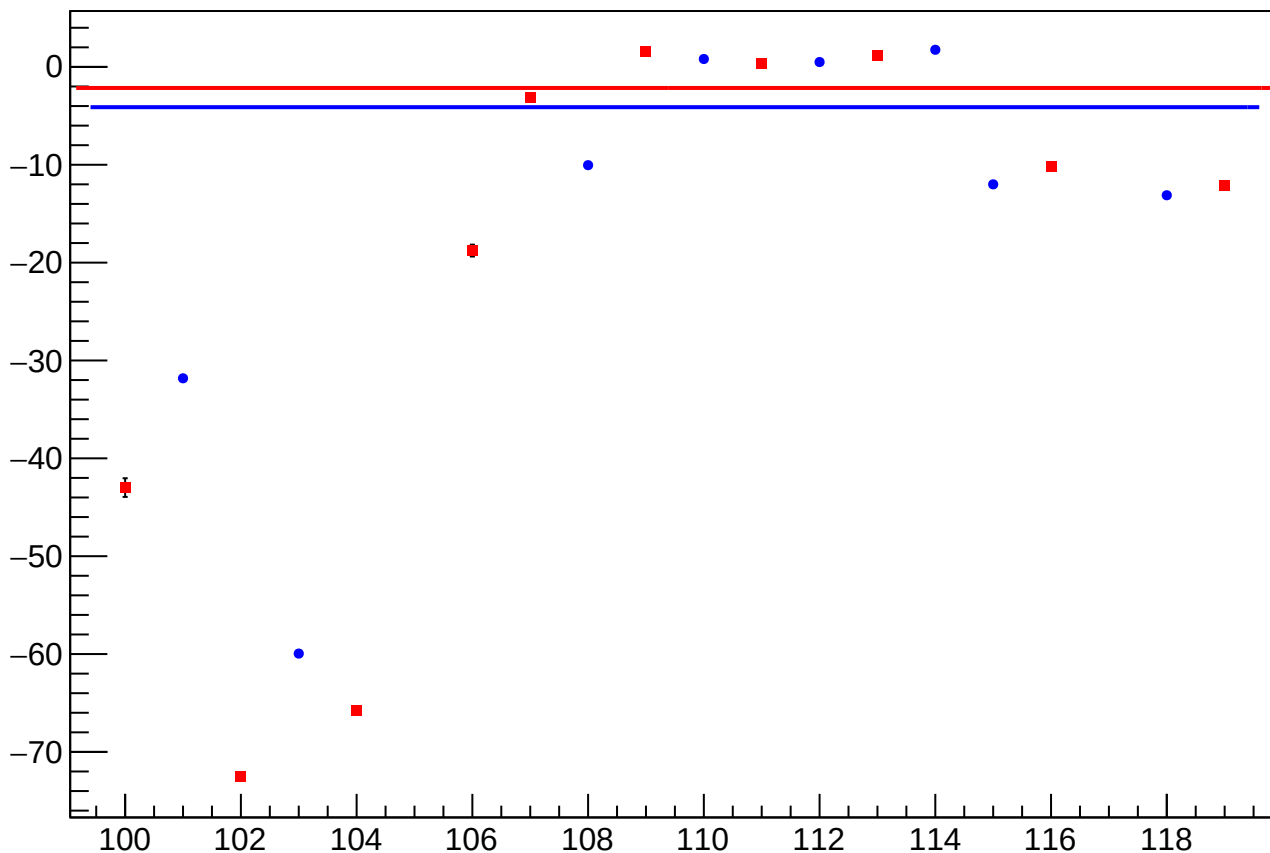
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.039+/-0.001  $\chi^2/\text{NDF}$ : 16932.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -4.115+/-0.068  $\chi^2/\text{NDF}$ : 31884.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.150+/-0.053  $\chi^2/\text{NDF}$ : 50729.3/9

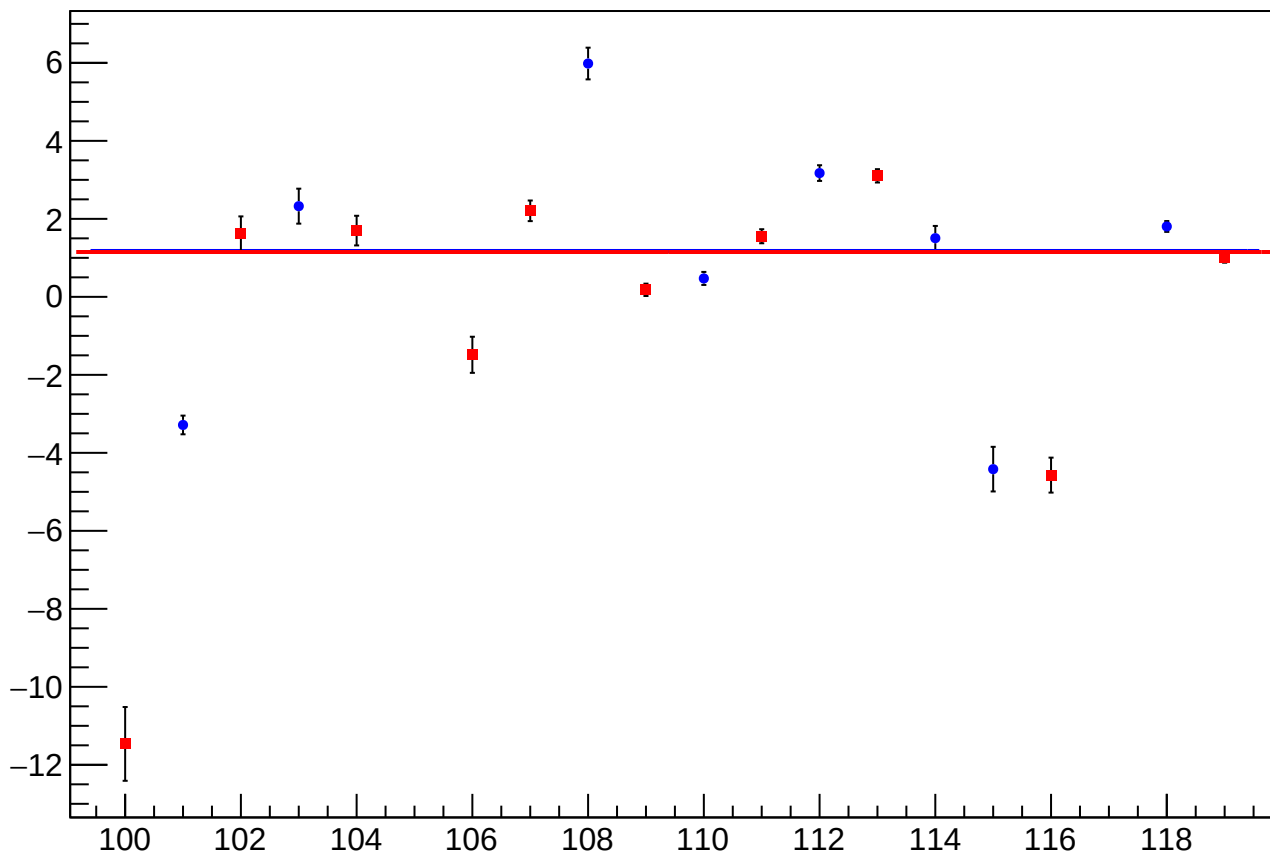
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.891+/-0.042  $\chi^2/\text{NDF}$ : 83140.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 1.176 $\pm$ 0.081  $\chi^2$ /NDF: 726.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.150 $\pm$ 0.072  $\chi^2$ /NDF: 566.1/9

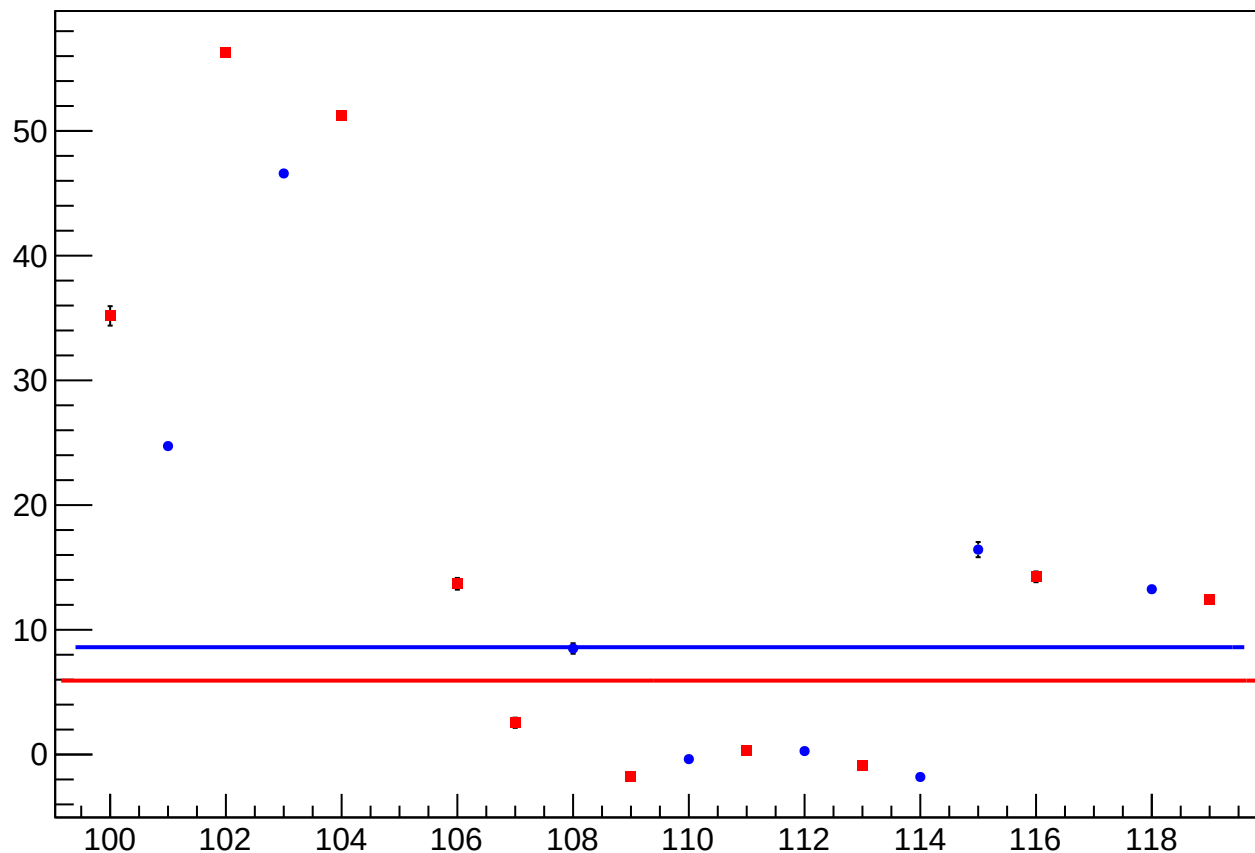
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.162 $\pm$ 0.054  $\chi^2$ /NDF: 1292.4/17

- 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: 8.605+/-0.085  $\chi^2/\text{NDF}$ : 24771.5/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.926+/-0.072  $\chi^2/\text{NDF}$ : 44327.8/9

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

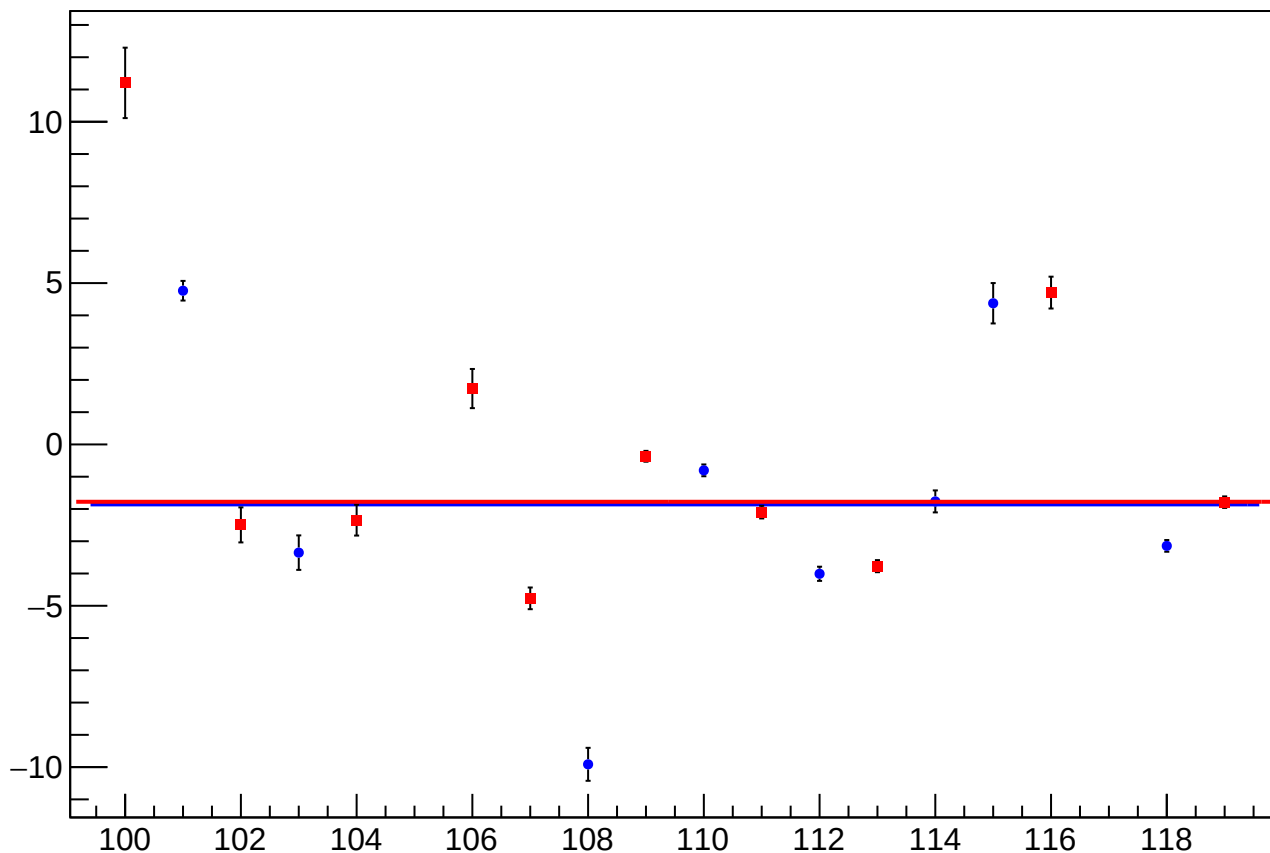
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.039+/-0.055  $\chi^2/\text{NDF}$ : 69679.6/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -1.858+/-0.095  $\chi^2/\text{NDF}$ : 1007.9/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.777+/-0.083  $\chi^2/\text{NDF}$ : 616.8/9

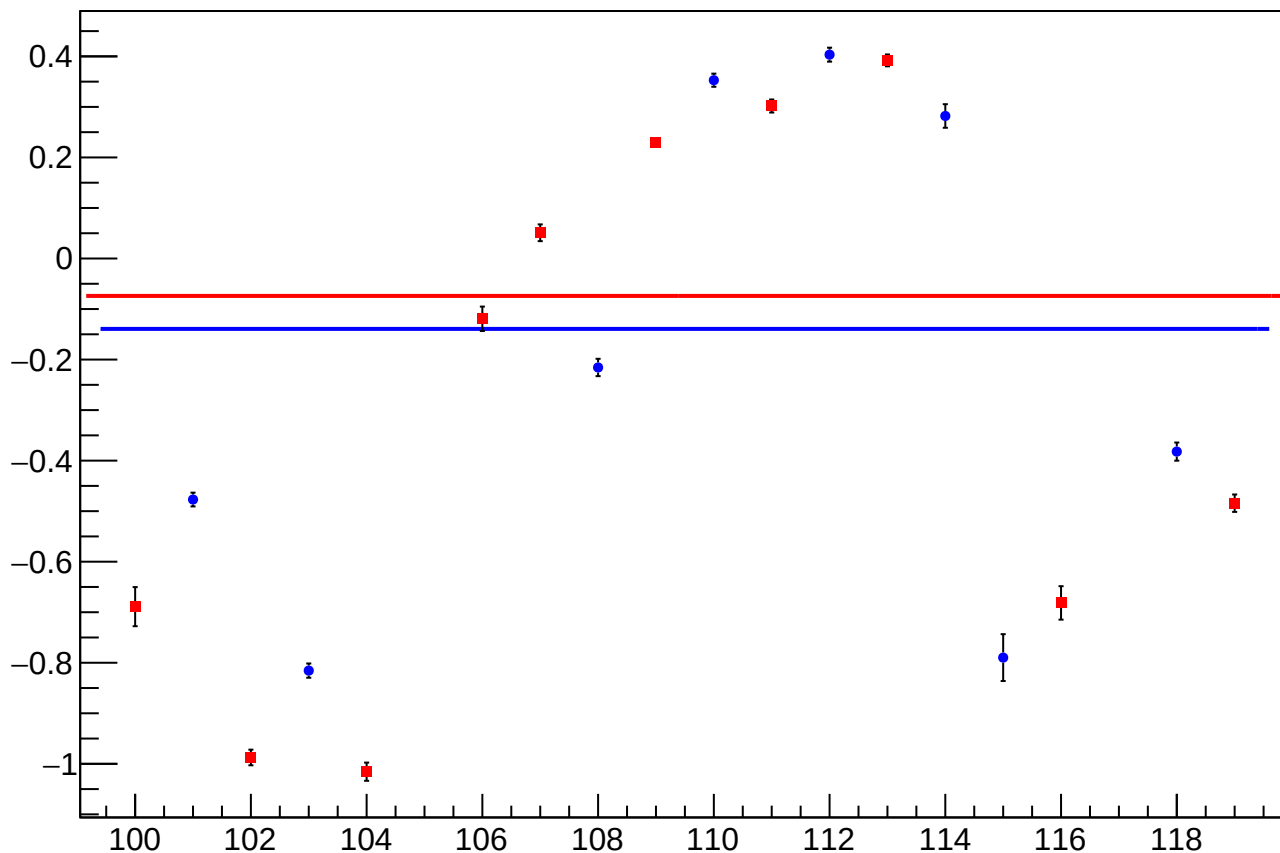
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.812+/-0.063  $\chi^2/\text{NDF}$ : 1625.1/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.139+/-0.006  $\chi^2/\text{NDF}$ : 6614.3/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.074+/-0.005  $\chi^2/\text{NDF}$ : 10794.7/9

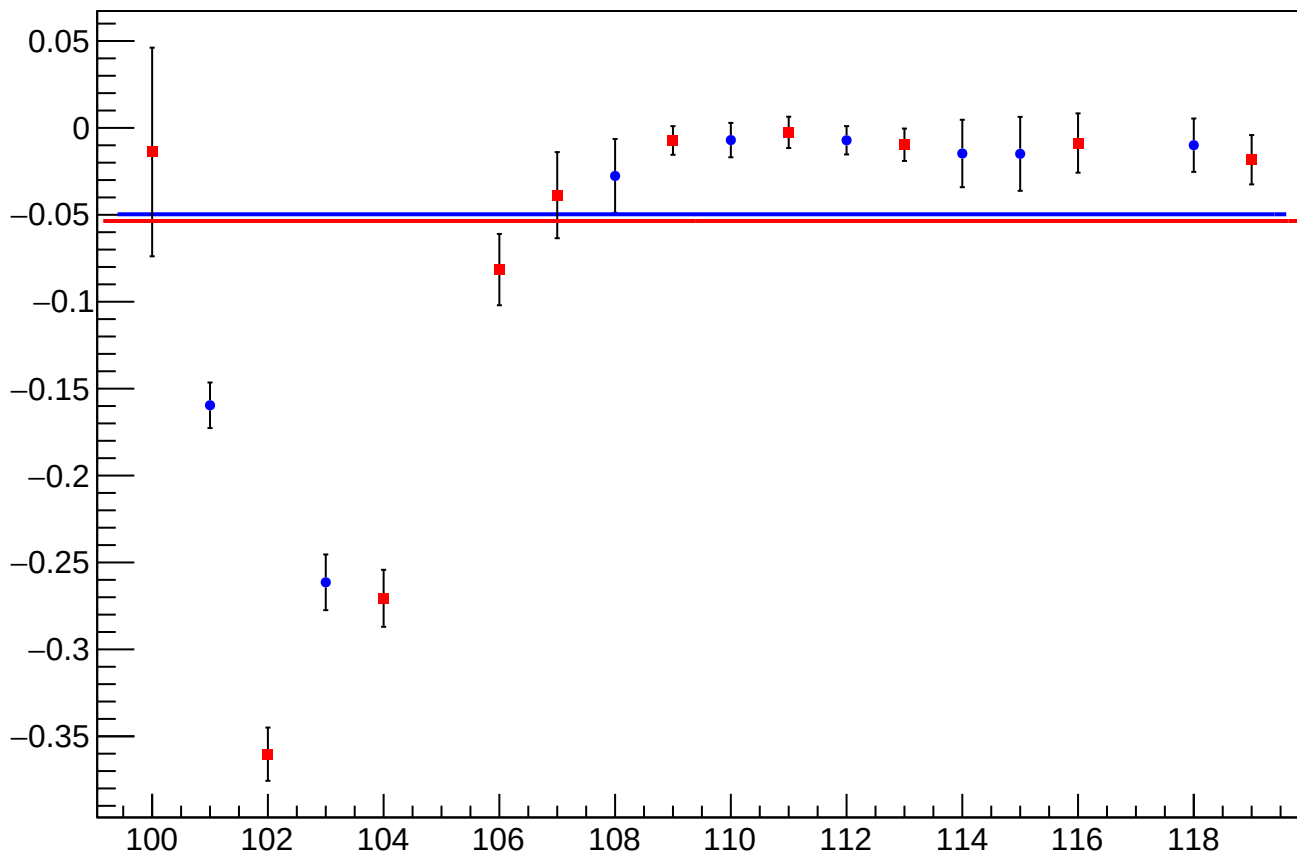
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.102+/-0.004  $\chi^2/\text{NDF}$ : 17483.3/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -0.050 $\pm$ 0.005  $\chi^2$ /NDF: 304.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.054 $\pm$ 0.004  $\chi^2$ /NDF: 678.0/9

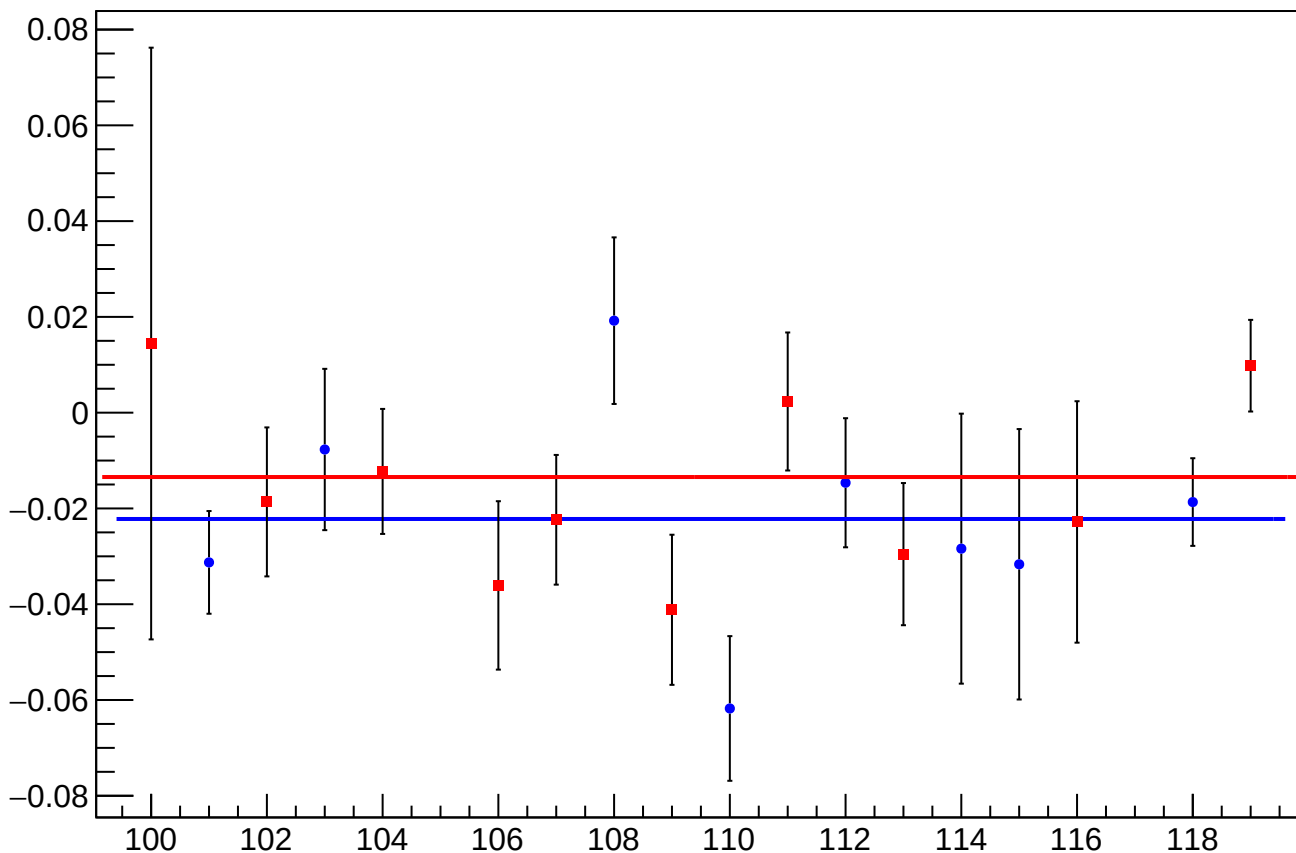
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.052 $\pm$ 0.003  $\chi^2$ /NDF: 983.2/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -0.022 $\pm$ 0.005  $\chi^2$ /NDF: 14.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.013 $\pm$ 0.005  $\chi^2$ /NDF: 14.0/9

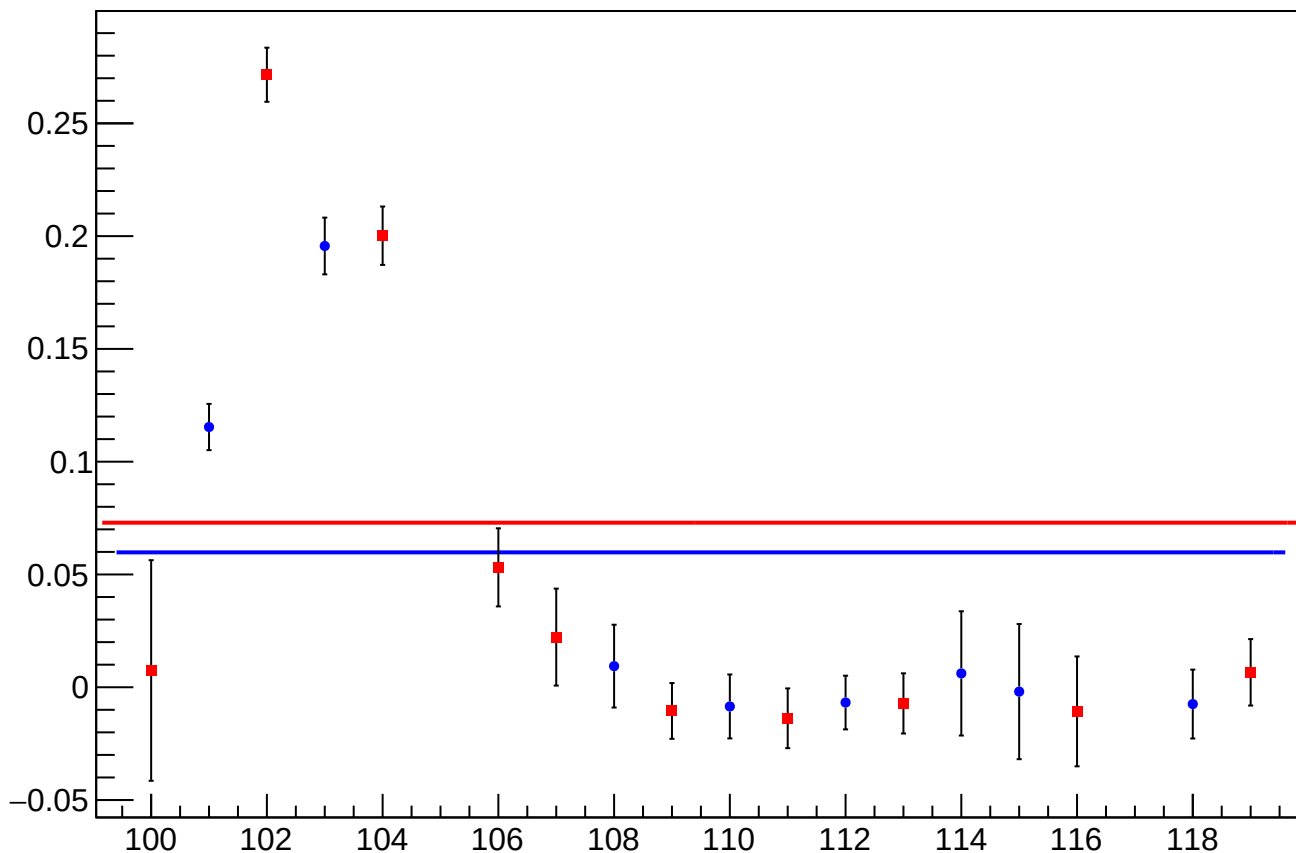
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.018 $\pm$ 0.003  $\chi^2$ /NDF: 30.2/17

- 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: 0.060 $\pm$ 0.005  $\chi^2$ /NDF: 235.6/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.073 $\pm$ 0.005  $\chi^2$ /NDF: 536.1/9

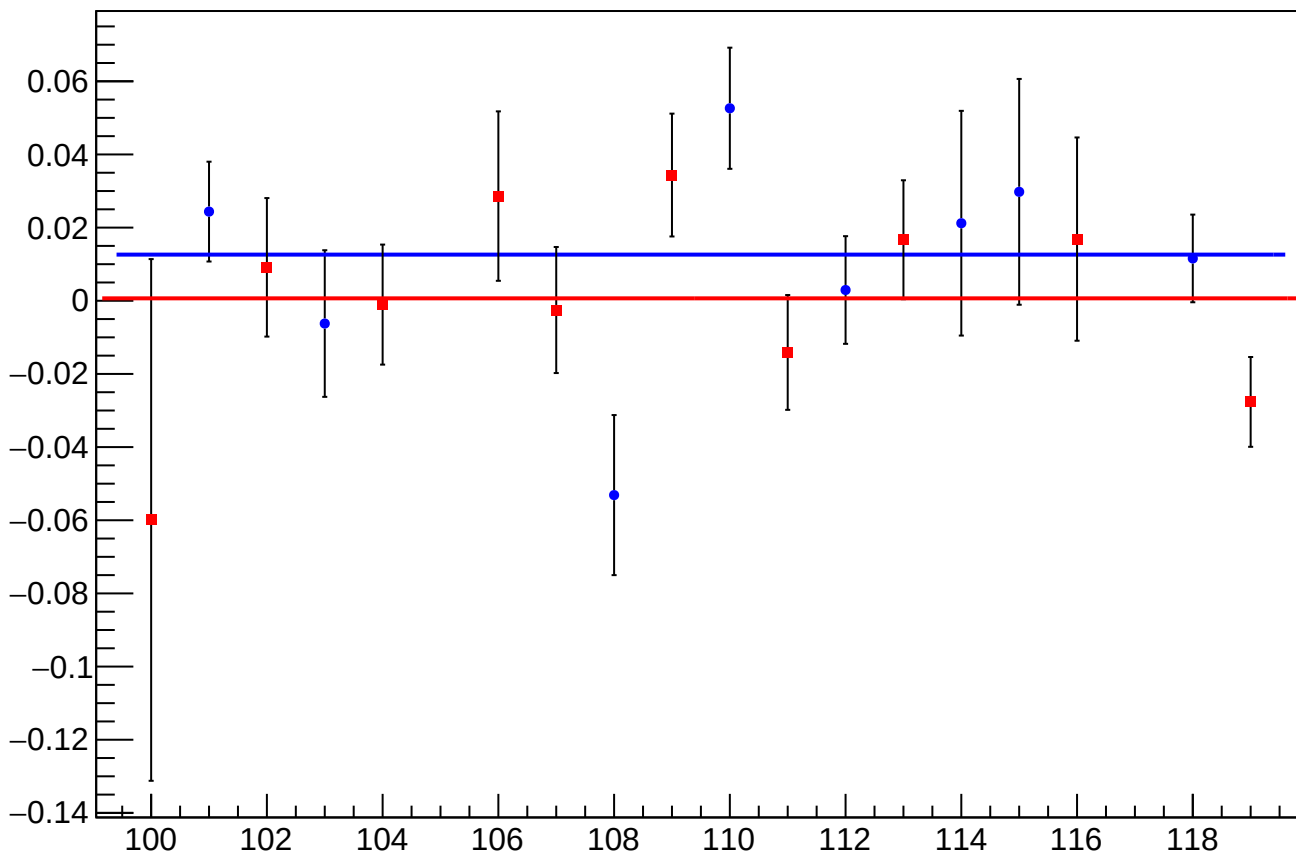
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.067 $\pm$ 0.004  $\chi^2$ /NDF: 775.1/17

- 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: 0.013 $\pm$ 0.006  $\chi^2$ /NDF: 17.3/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.001 $\pm$ 0.006  $\chi^2$ /NDF: 14.0/9

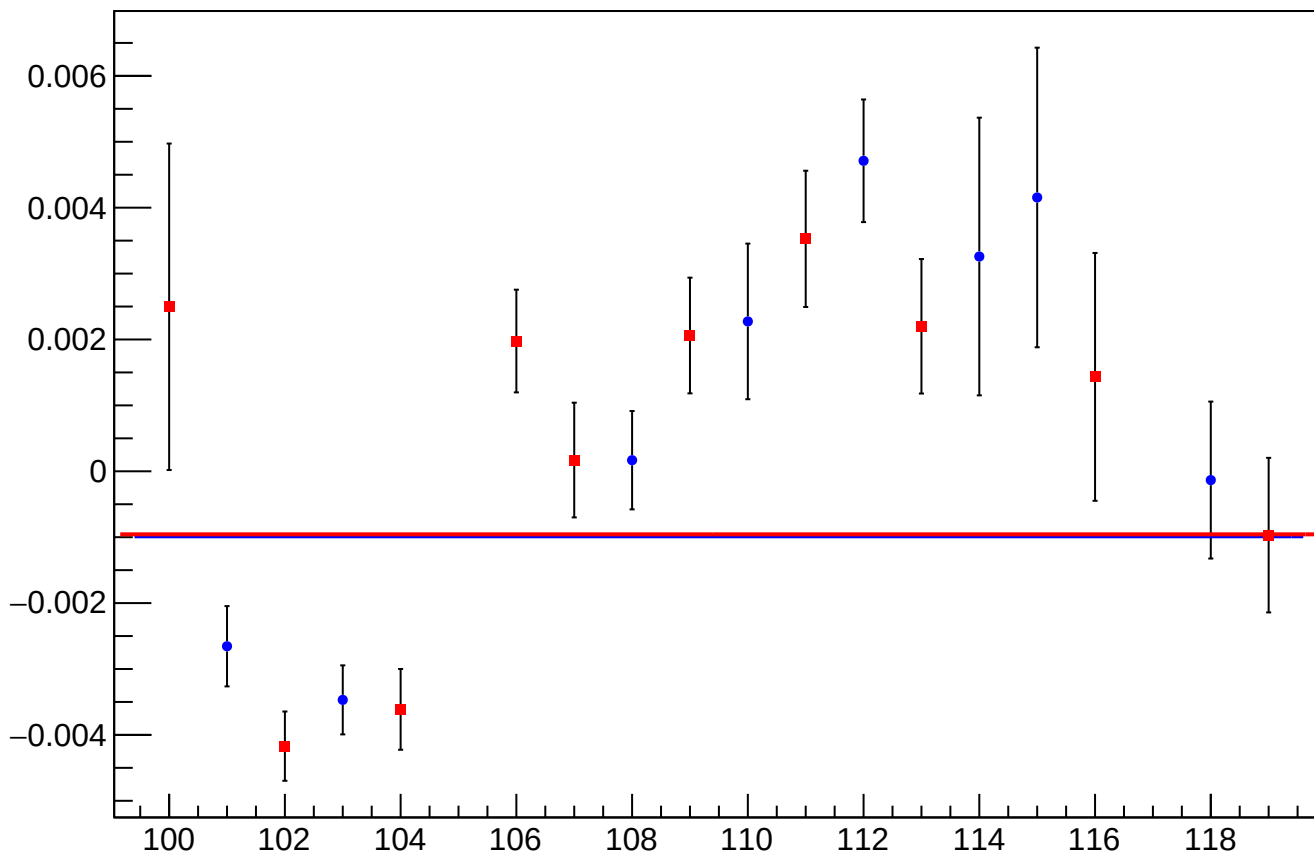
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.004  $\chi^2$ /NDF: 33.4/17

- 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+/-0.000  $\chi^2/\text{NDF}$ : 87.2/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.001+/-0.000  $\chi^2/\text{NDF}$ : 115.7/9

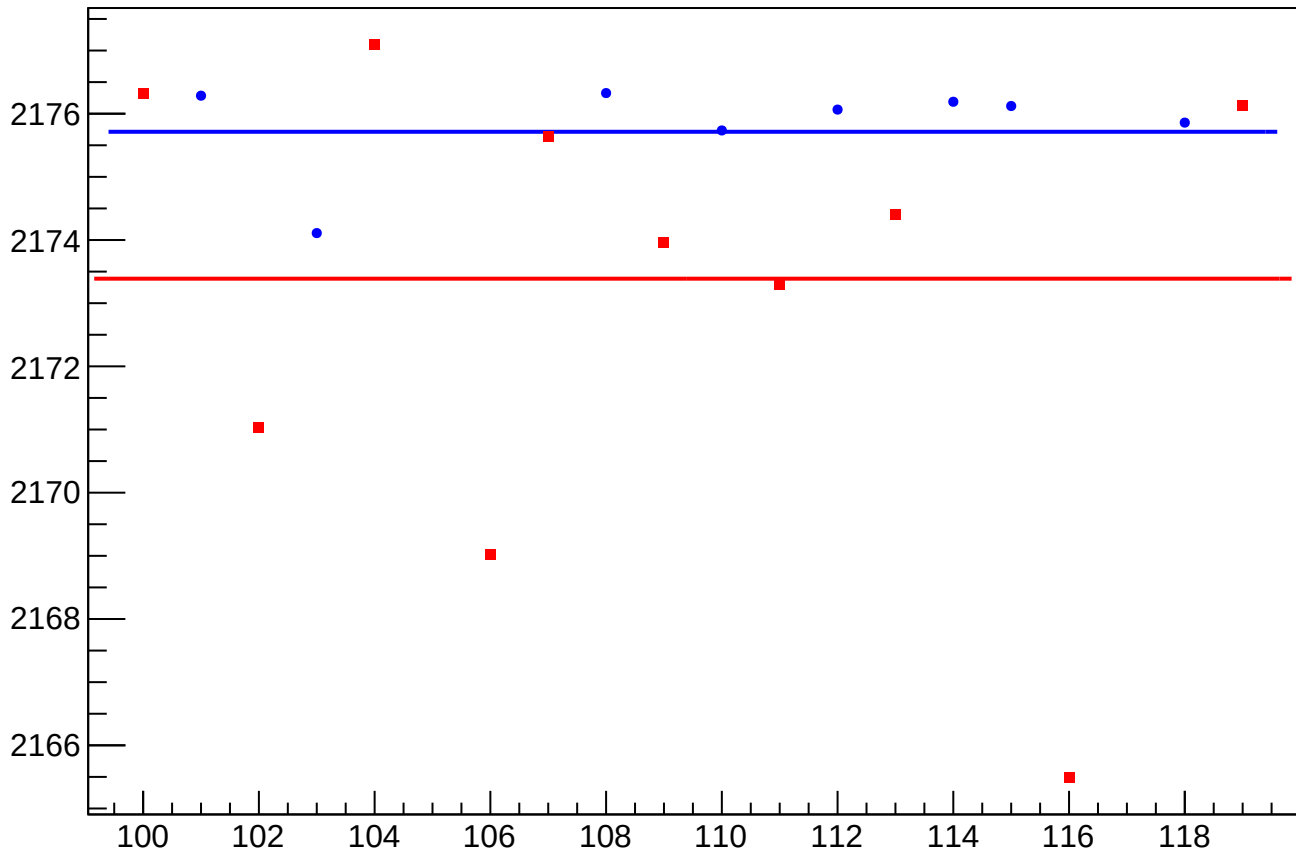
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.001+/-0.000  $\chi^2/\text{NDF}$ : 202.9/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# HALLA\_p\_mean vs Slug



Right In: 2175.714 $\pm$ 0.000  $\chi^2$ /NDF: 211440197434731508202998329245696.0/7

+ 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: 2174.424 $\pm$ 0.000  $\chi^2$ /NDF: 53759298208

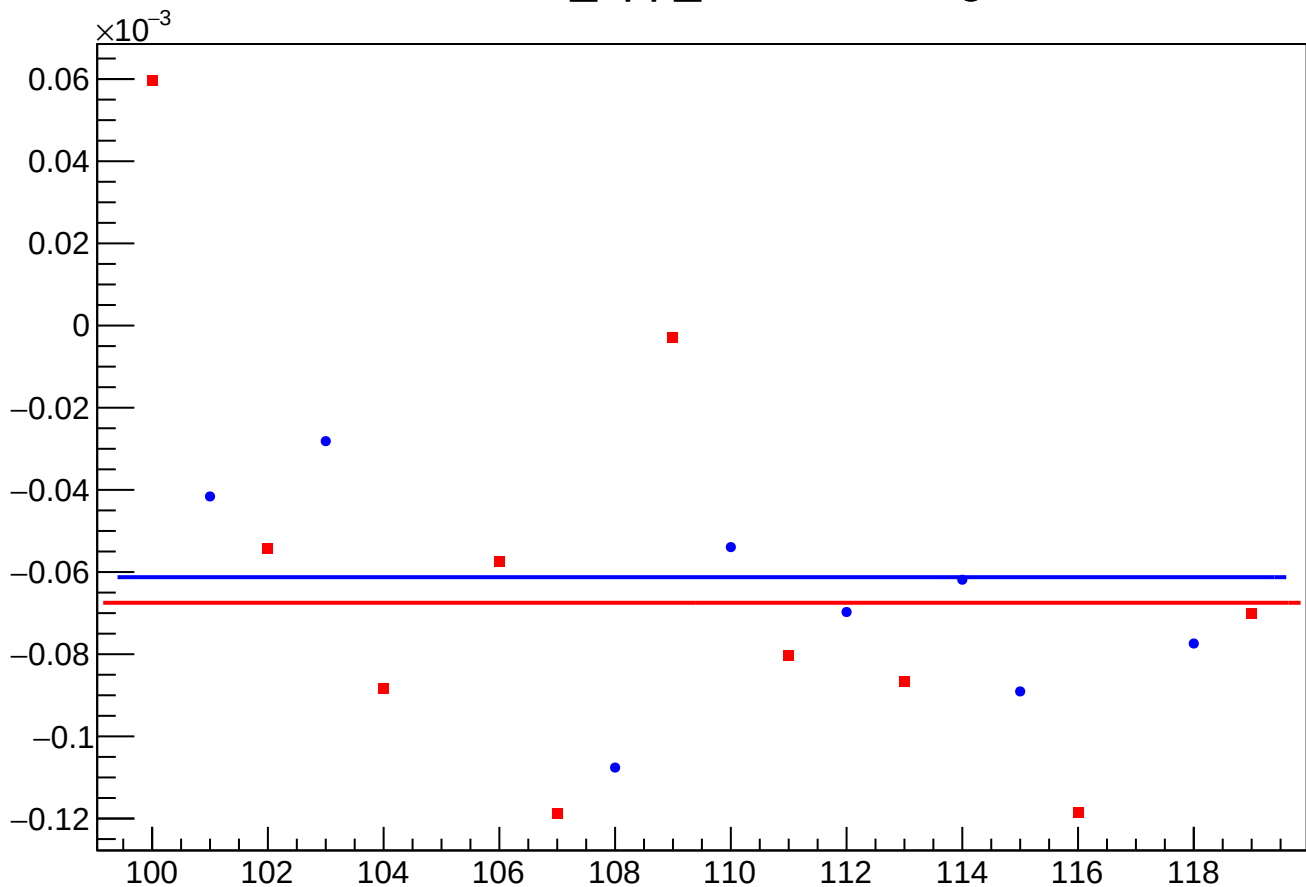
Right Out: 2173.388 $\pm$ 0.000  $\chi^2$ /NDF: 4144899385795185526230129800380416.0/9

- 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  $\chi^2/\text{NDF}$ : 213217448145664046268416.0/7

+ 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

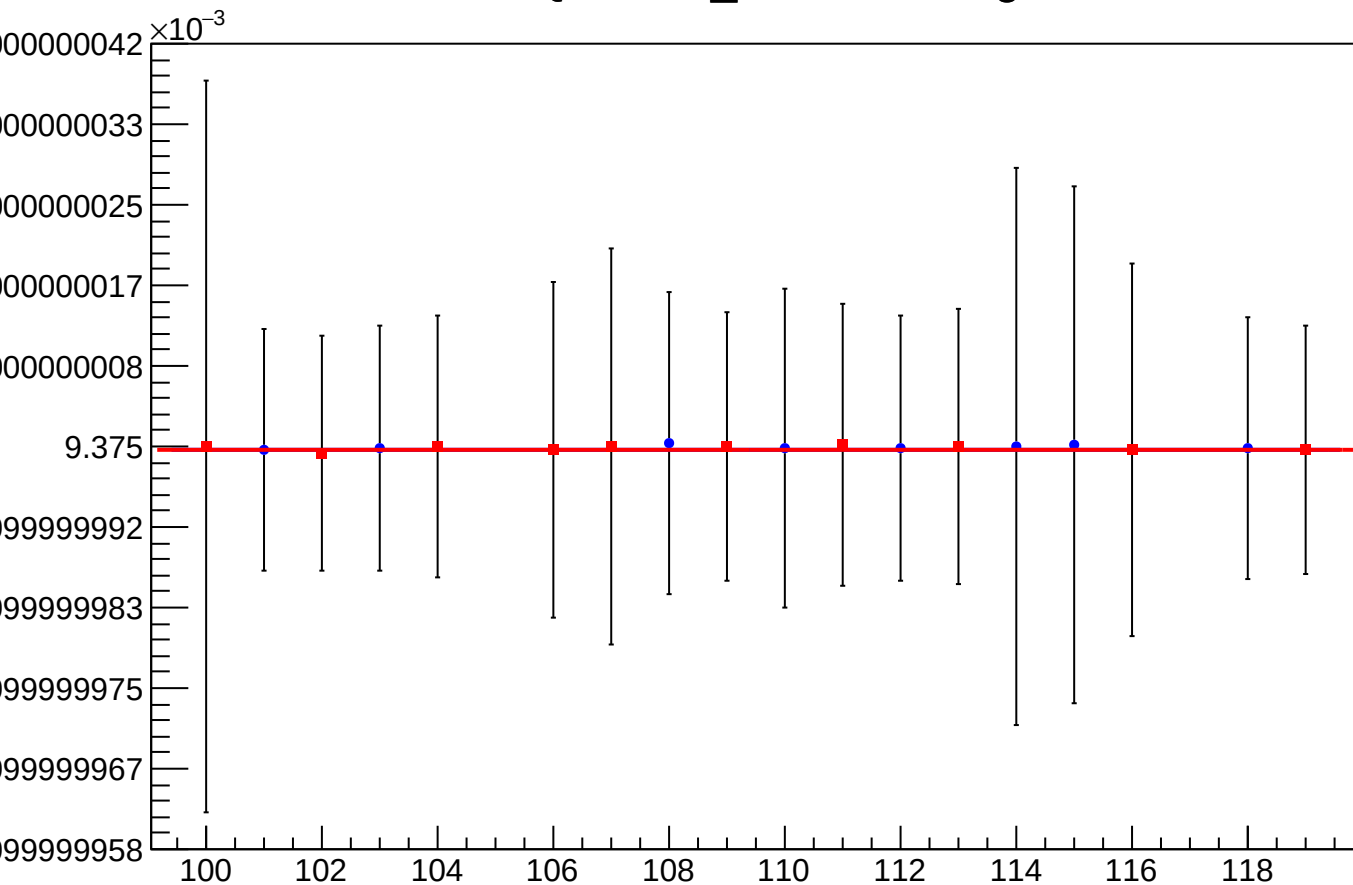
All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7484922565558

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 527953631295737356615680.0/9

- 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/9

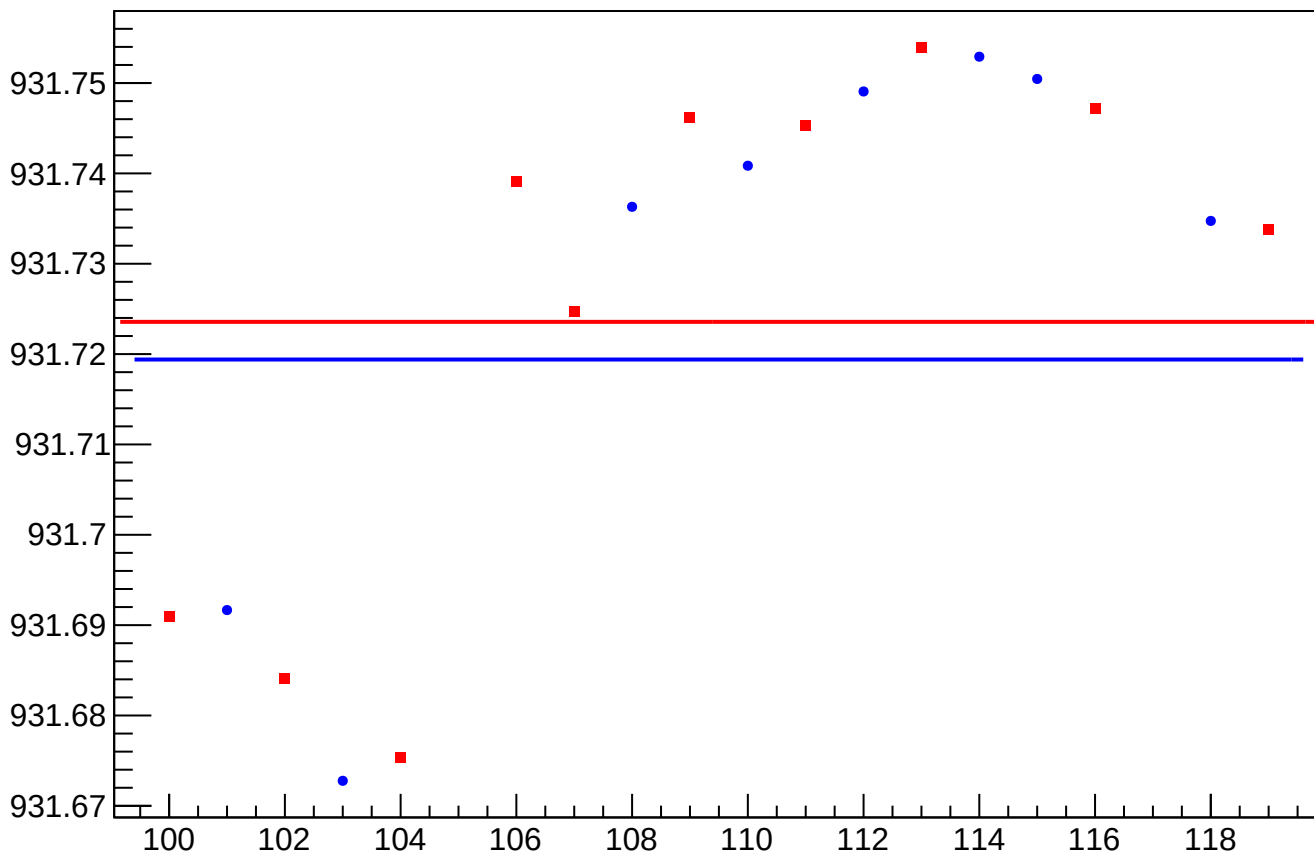
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# HacL\_Q2\_HP3458A\_IOUT\_mean vs Slug



Right In: 931.719+/-0.000  $\chi^2/\text{NDF}$ : 302268157763329347250550734848.0/7

+ 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

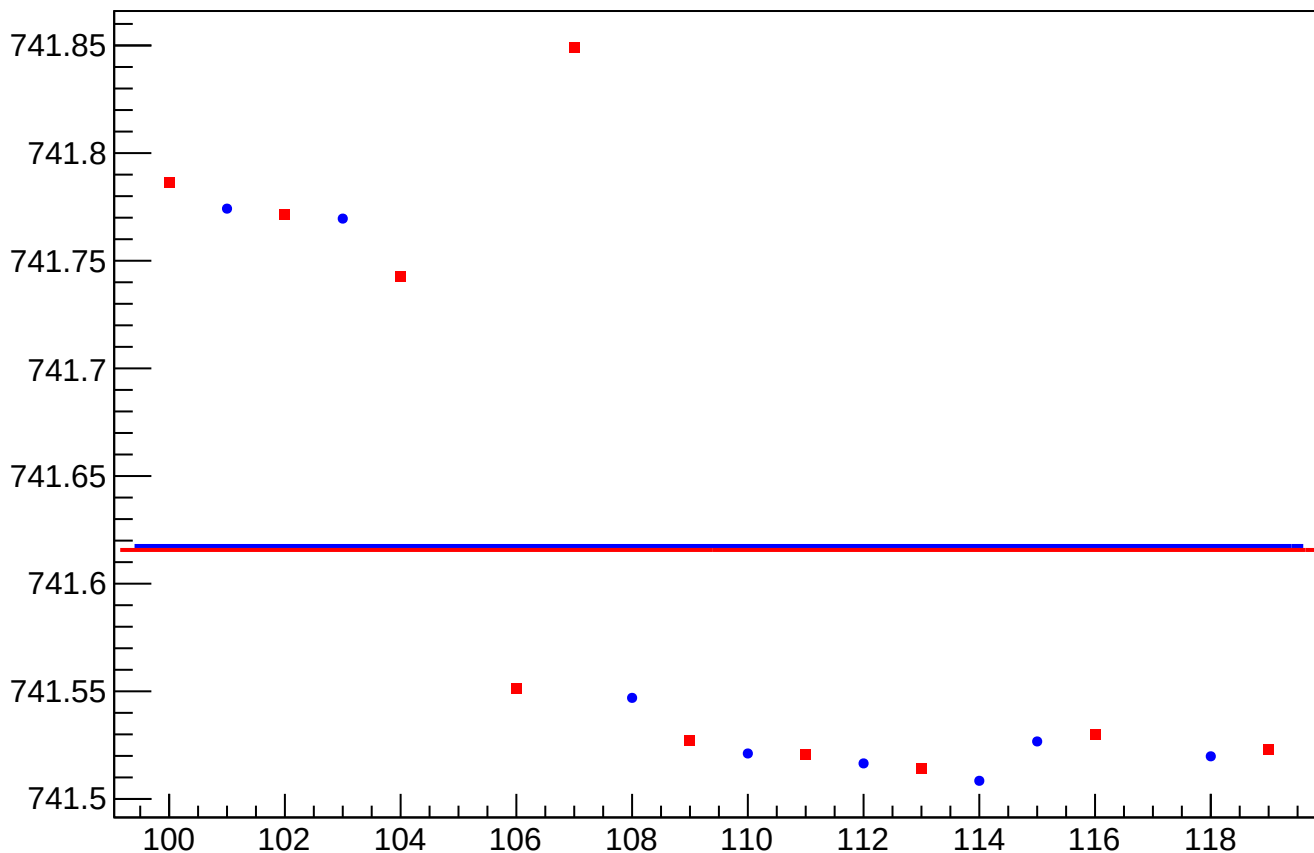
All: 931.722+/-0.000  $\chi^2/\text{NDF}$ : 668392909324

Right Out: 931.724+/-0.000  $\chi^2/\text{NDF}$ : 362848239550994896421365219328.0/9

- 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: 741.618+/-0.000  $\chi^2/\text{NDF}$ : 4924221160140900154170710949888.0/7

+ 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

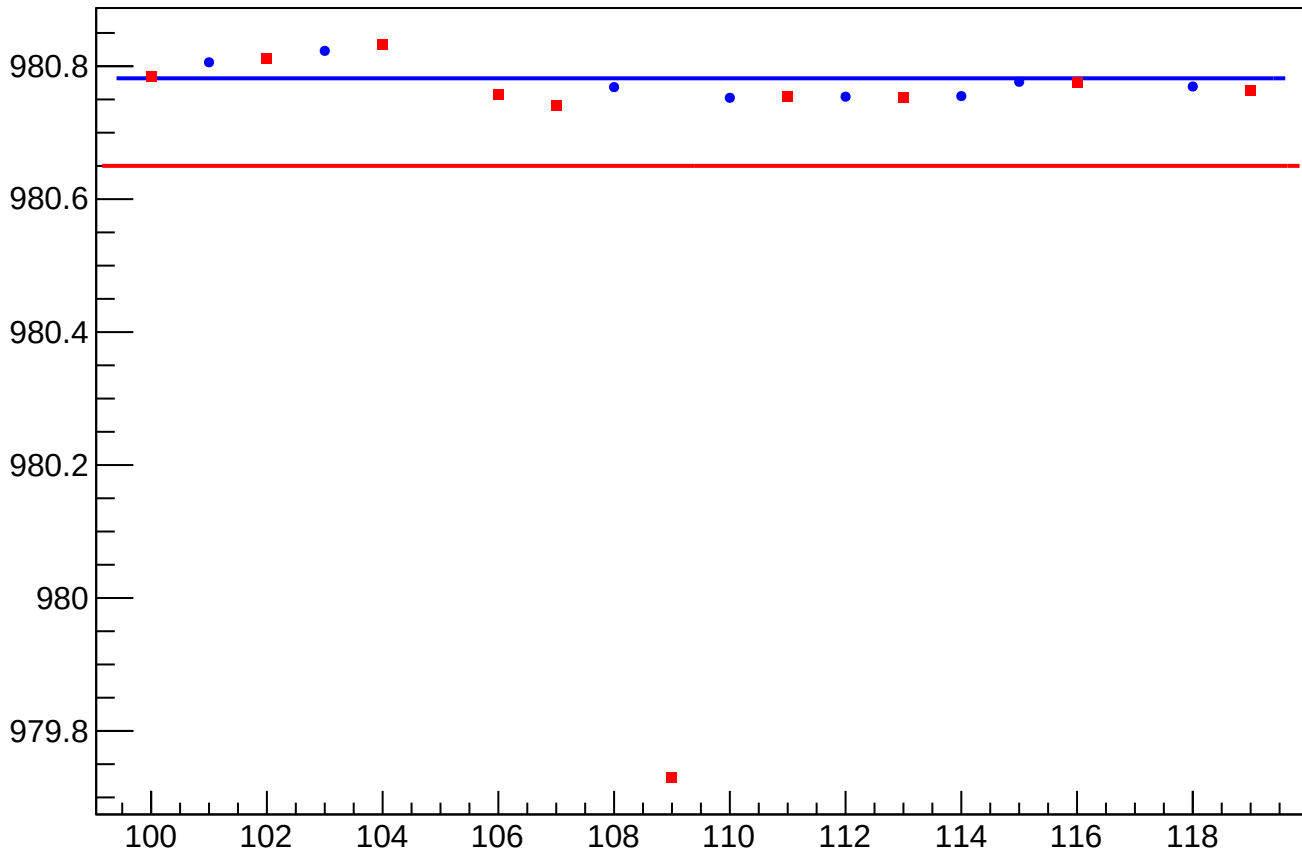
All: 741.616+/-0.000  $\chi^2/\text{NDF}$ : 111639033567

Right Out: 741.616+/-0.000  $\chi^2/\text{NDF}$ : 6239036712655266590058040262656.0/9

- 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: 980.782 $\pm$ 0.000  $\chi^2$ /NDF: 241673520404561257276614115328.0/7

+ 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

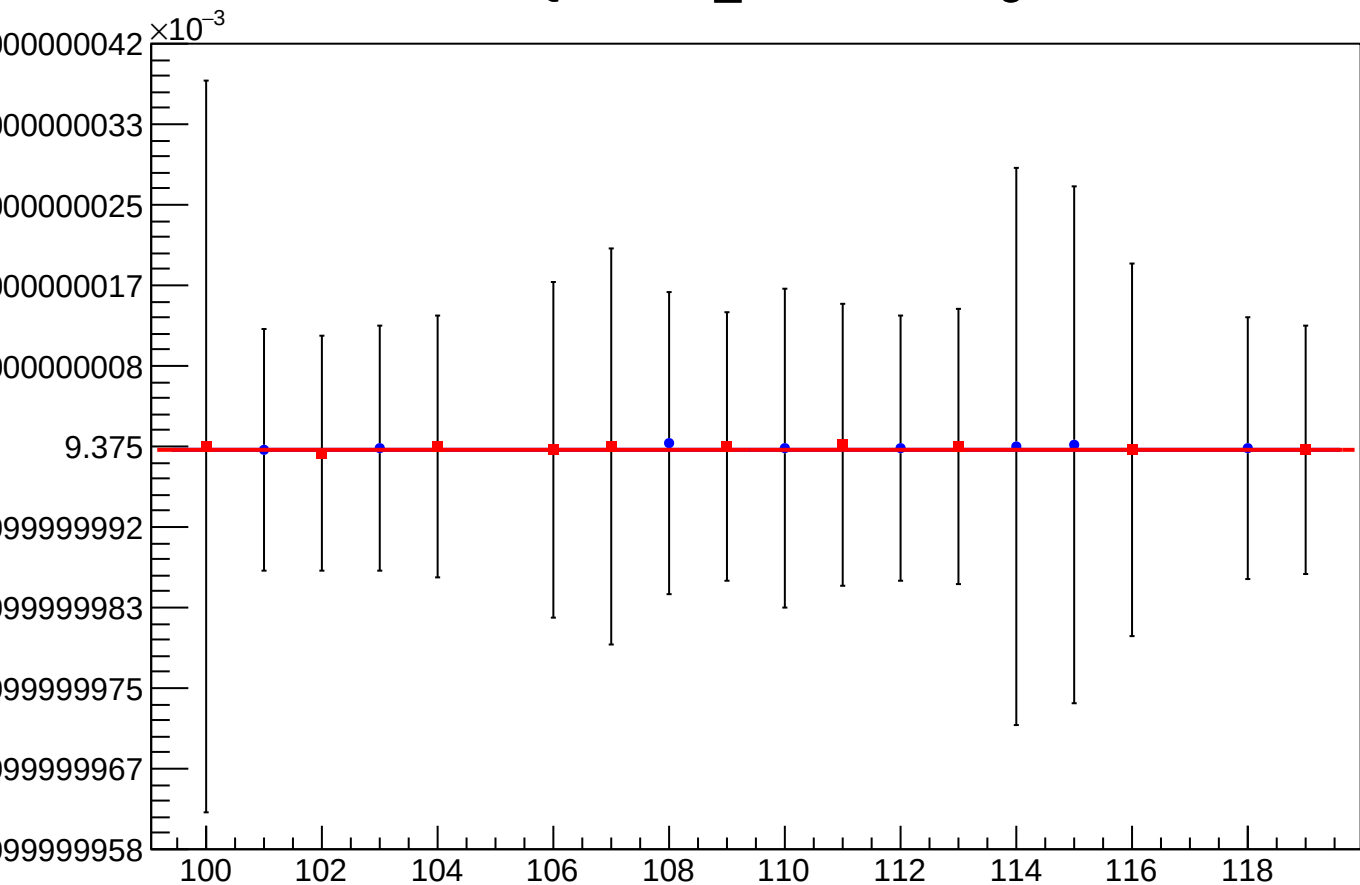
All: 980.709 $\pm$ 0.000  $\chi^2$ /NDF: 54107359224

Right Out: 980.650 $\pm$ 0.000  $\chi^2$ /NDF: 50596612059289428902942674518016.0/9

- 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: 0.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/9

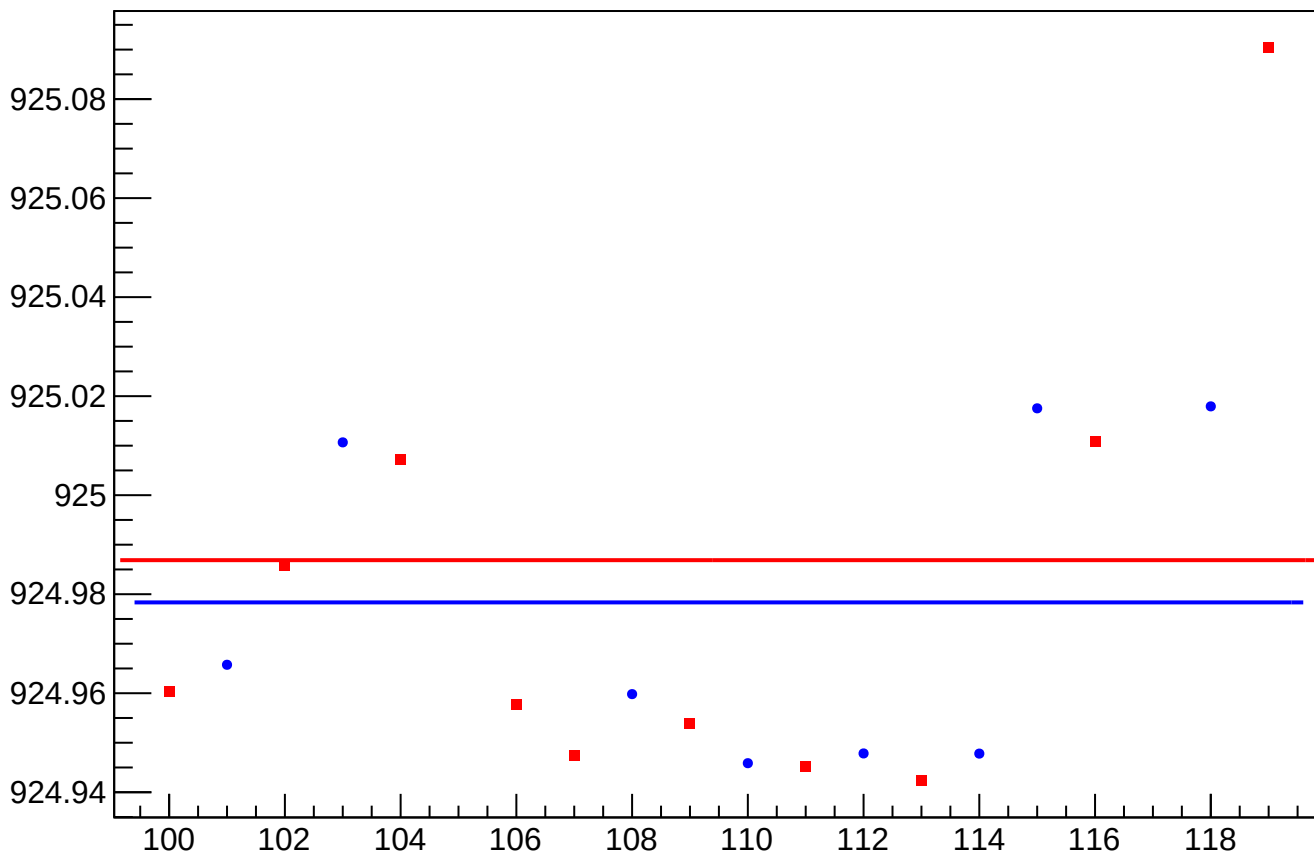
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# HacR\_Q2\_HP3458A\_IOUT\_mean vs Slug



Right In: 924.978+/-0.000  $\chi^2/\text{NDF}$ : 297482558243894439629163593728.0/7

+ 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

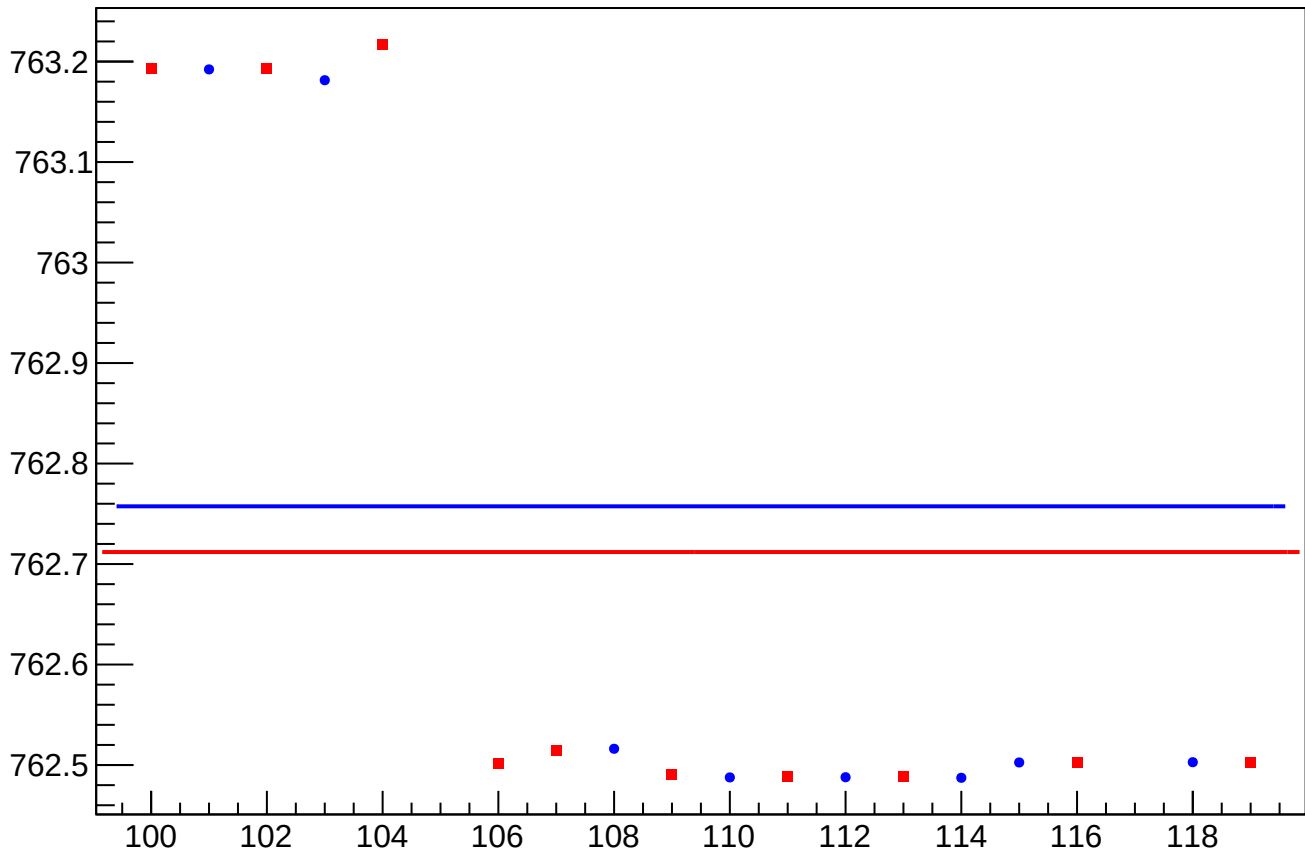
All: 924.983+/-0.000  $\chi^2/\text{NDF}$ : 131030903668.0/9

Right Out: 924.987+/-0.000  $\chi^2/\text{NDF}$ : 999107462202523022453582594048.0/9

- 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: 762.757 $\pm$ 0.000  $\chi^2$ /NDF: 37892370085739288369097374433280.0/7

+ 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: 762.732 $\pm$ 0.000  $\chi^2$ /NDF: 830424512257.0/9

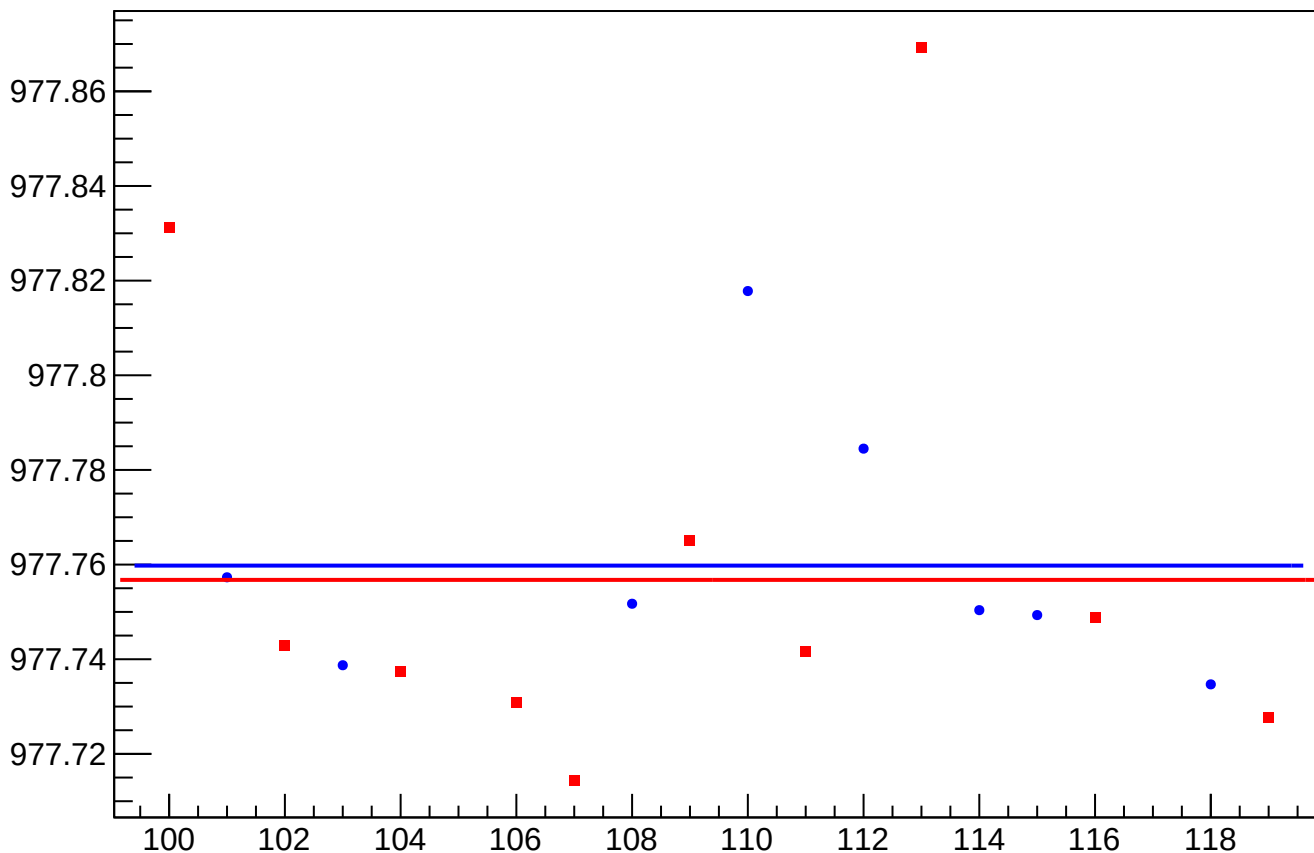
Right Out: 762.712 $\pm$ 0.000  $\chi^2$ /NDF: 44760231497060250597664548192256.0/9

- 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



# HacR\_Q3\_HP3458A\_IOUT\_mean vs Slug



Right In: 977.760 $\pm$ 0.000  $\chi^2$ /NDF: 225107972121886783557194481664.0/7

+ 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

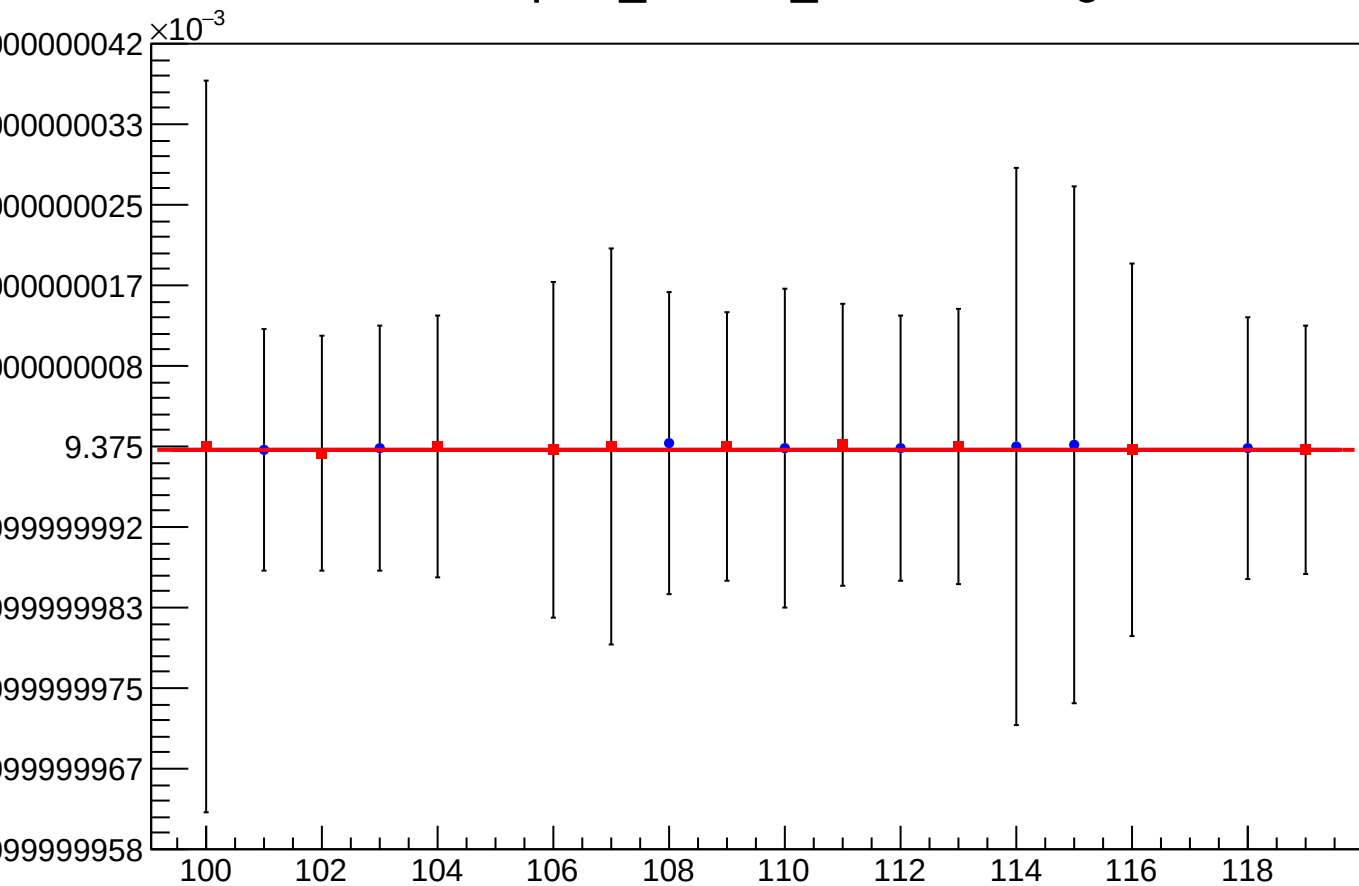
All: 977.758 $\pm$ 0.000  $\chi^2$ /NDF: 106449774120

Right Out: 977.757 $\pm$ 0.000  $\chi^2$ /NDF: 837673368323140925560641814528.0/9

- 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

# hesDipole\_current\_mean vs Slug



Right In: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/9

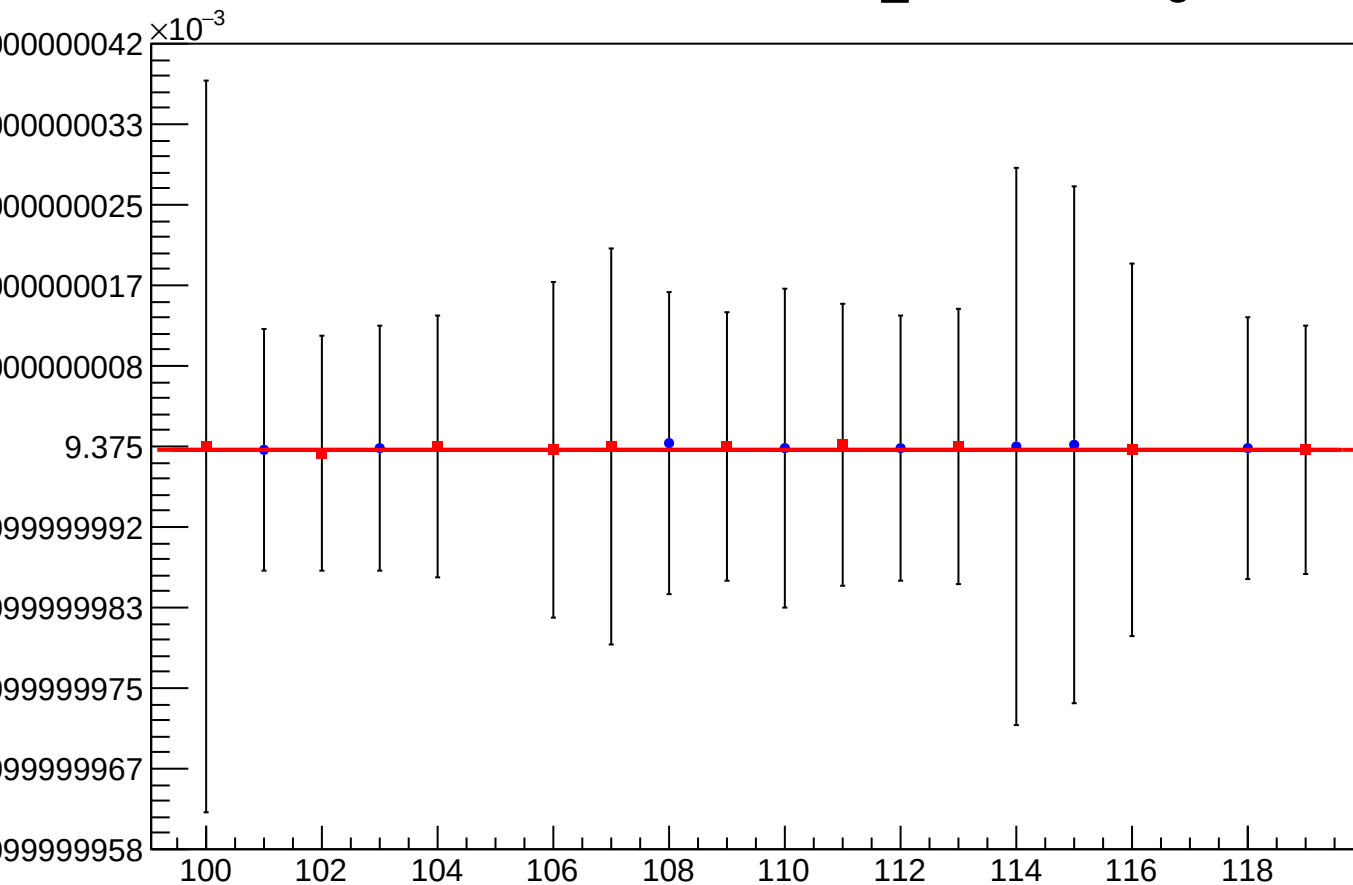
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# MSUPERBIGBITereadcalc\_mean vs Slug



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/7

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/9

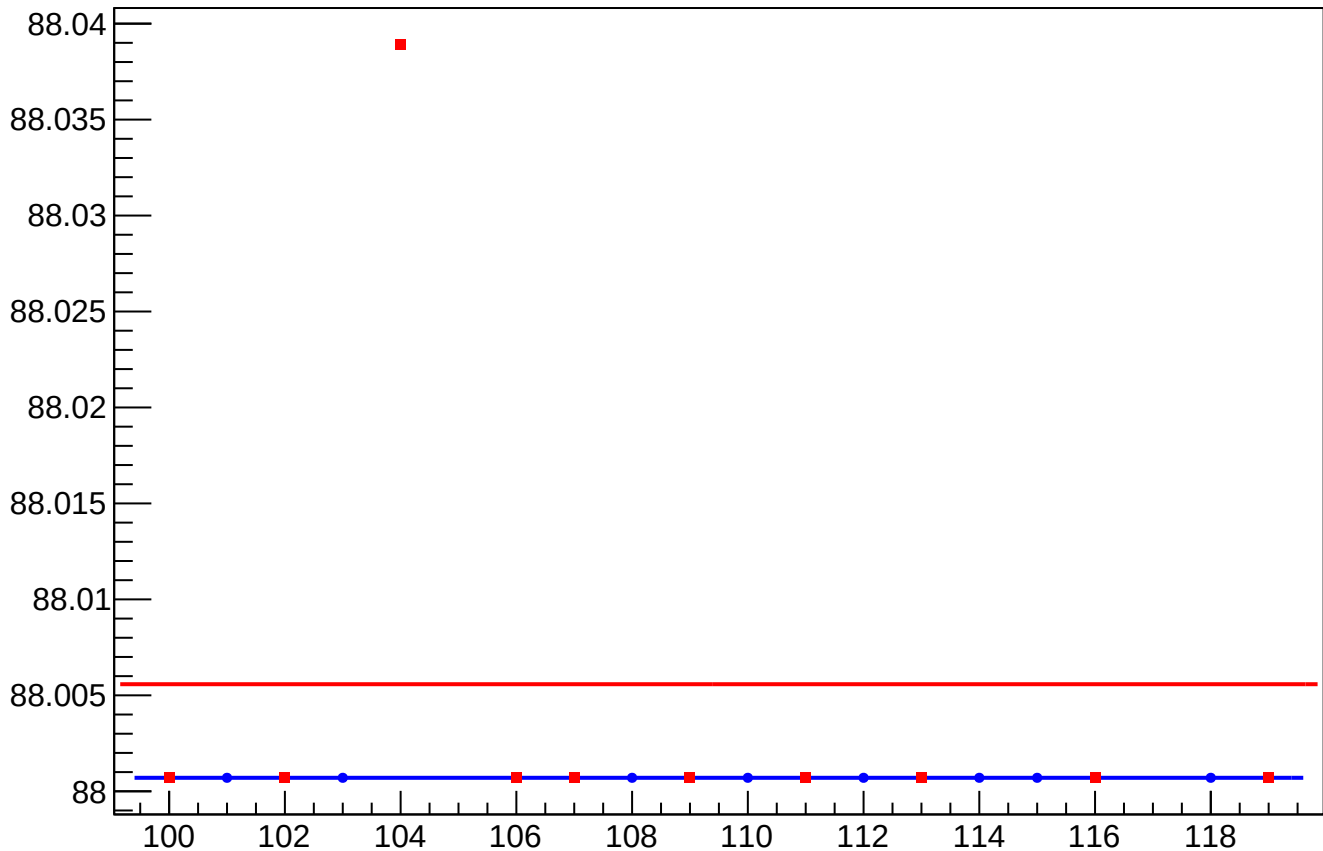
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# VWienAngle\_mean vs Slug



Right In: 88.001 $\pm$ 0.000  $\chi^2$ /NDF: 717522.6/7

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

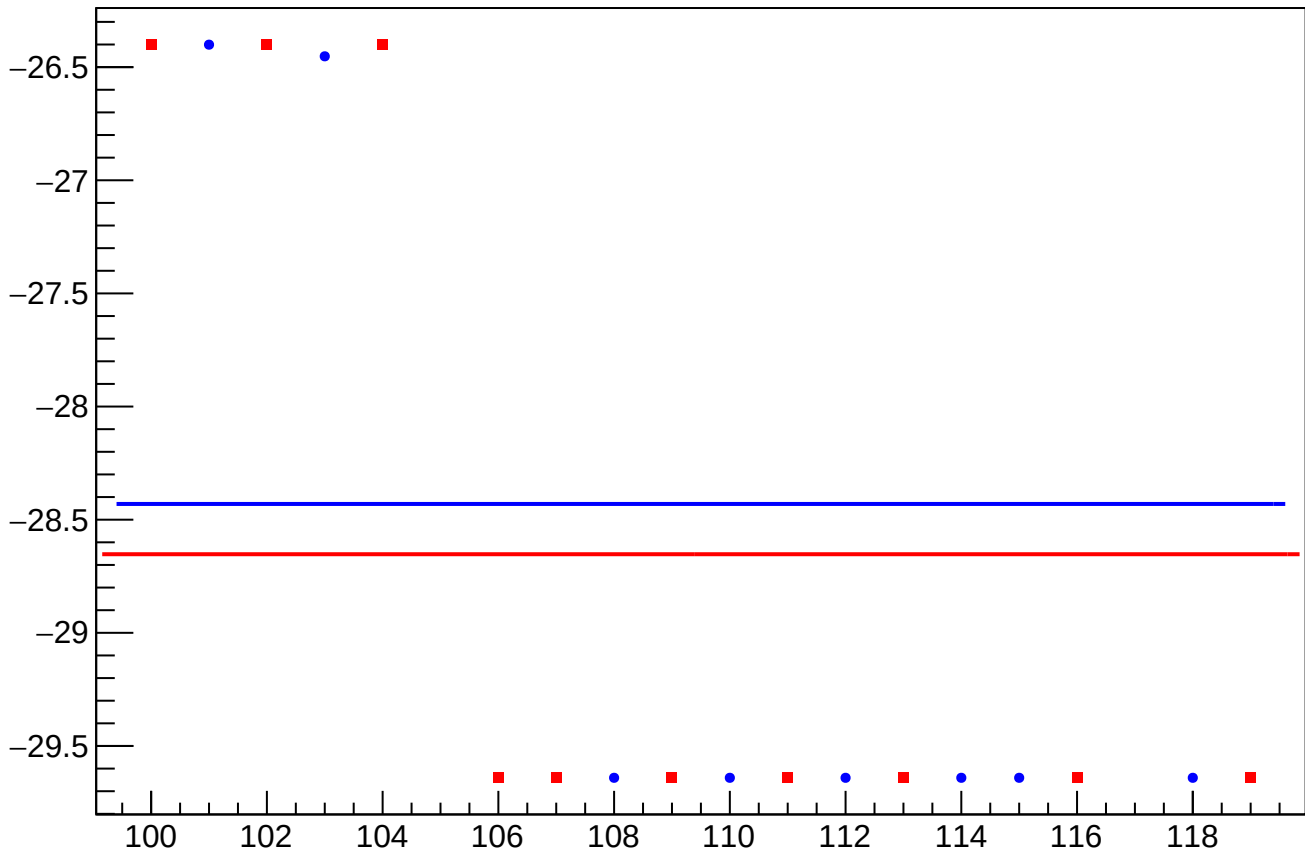
Right Out: 88.006 $\pm$ 0.000  $\chi^2$ /NDF: 68744173239657653938266570752.0/9

All: 88.003 $\pm$ 0.000  $\chi^2$ /NDF: 7322705894145

- 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

# HWienAngle\_mean vs Slug



Right In: -28.430+/-0.000  $\chi^2/\text{NDF}$ : 824876609747917272857437976657920.0/7

+ 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

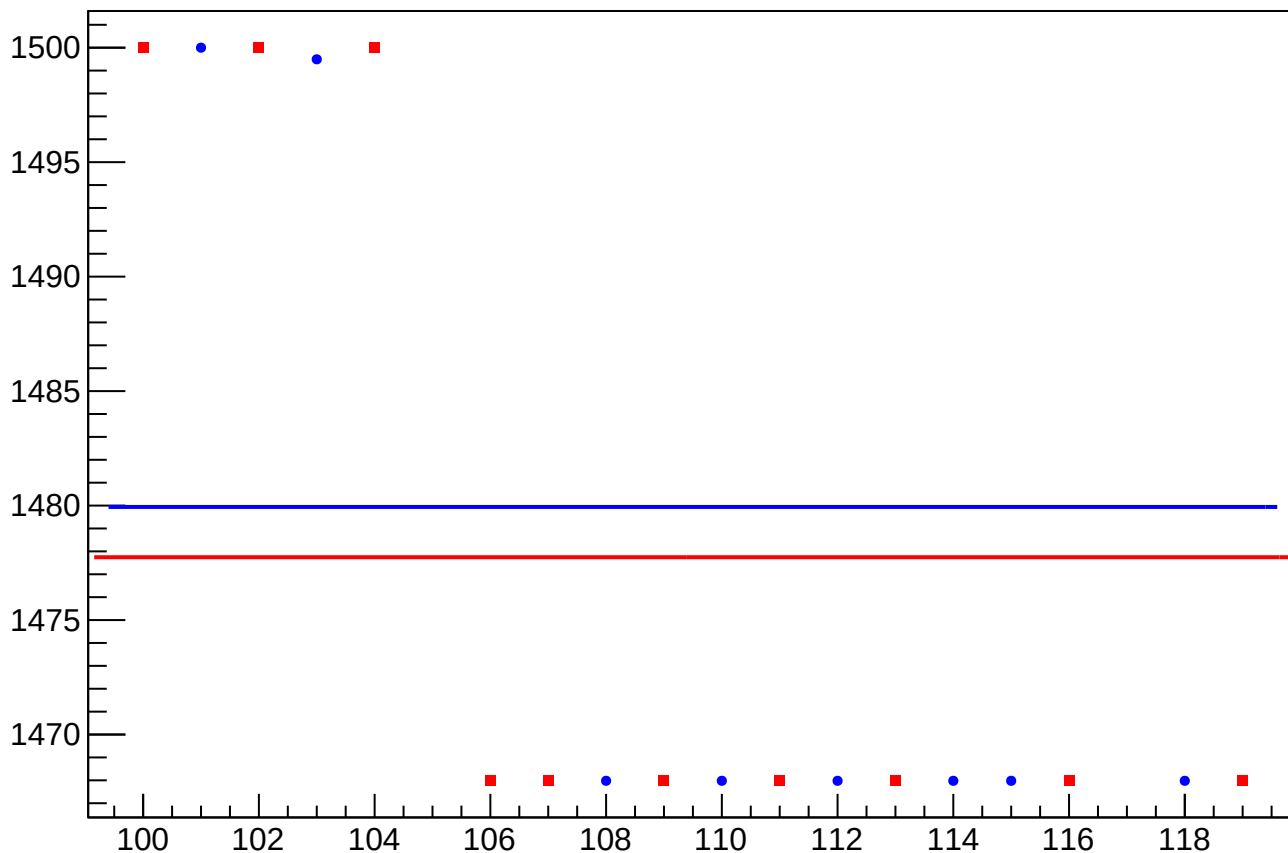
All: -28.554+/-0.000  $\chi^2/\text{NDF}$ : 177538921100

Right Out: -28.653+/-0.000  $\chi^2/\text{NDF}$ : 941210348936183937803235522248704.0/9

- 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: 1479.940+/-0.000  $\chi^2/\text{NDF}$ : 80571188397180798840826236640428032.0/7

+ 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

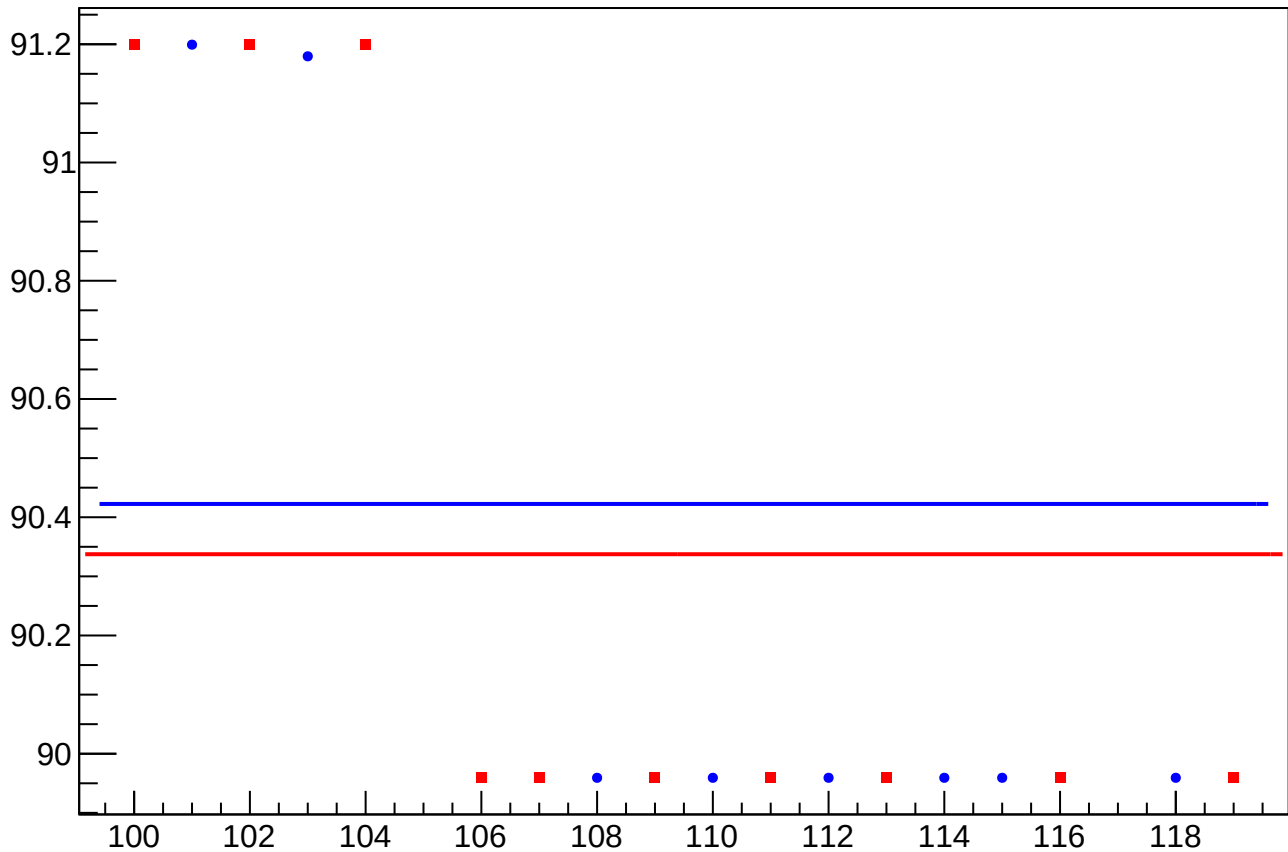
All: 1478.723+/-0.000  $\chi^2/\text{NDF}$ : 17341408024

Right Out: 1477.745+/-0.000  $\chi^2/\text{NDF}$ : 91934278956813932604064893289627648.0/9

- 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: 90.422+/-0.000  $\chi^2/\text{NDF}$ : 120820975760984863868806997475328.0/7

+ 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

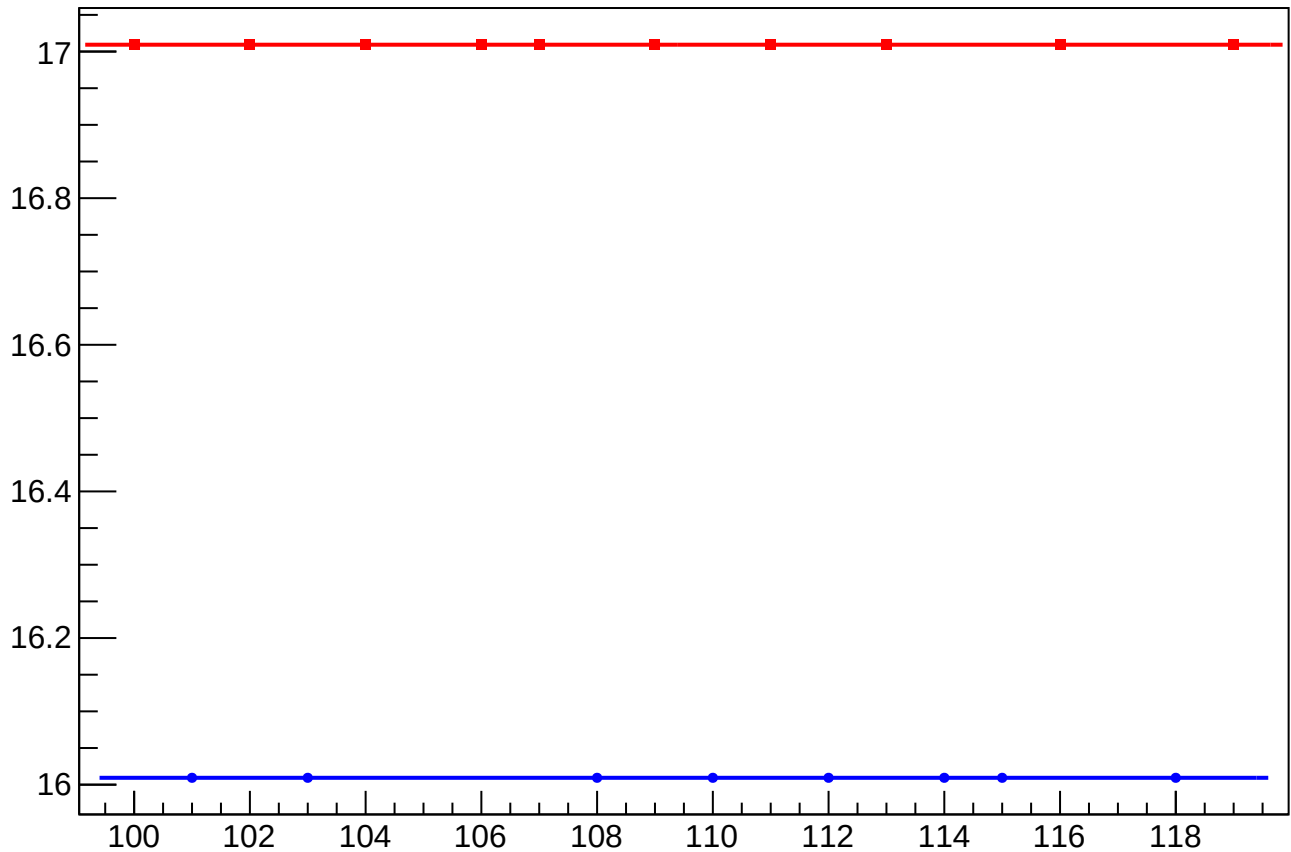
All: 90.375+/-0.000  $\chi^2/\text{NDF}$ : 2600440530071

Right Out: 90.337+/-0.000  $\chi^2/\text{NDF}$ : 137860561702146134005438994186240.0/9

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 25130.0/7

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: 17.009 $\pm$ 0.000  $\chi^2$ /NDF: 3469951229494682653294592.0/9

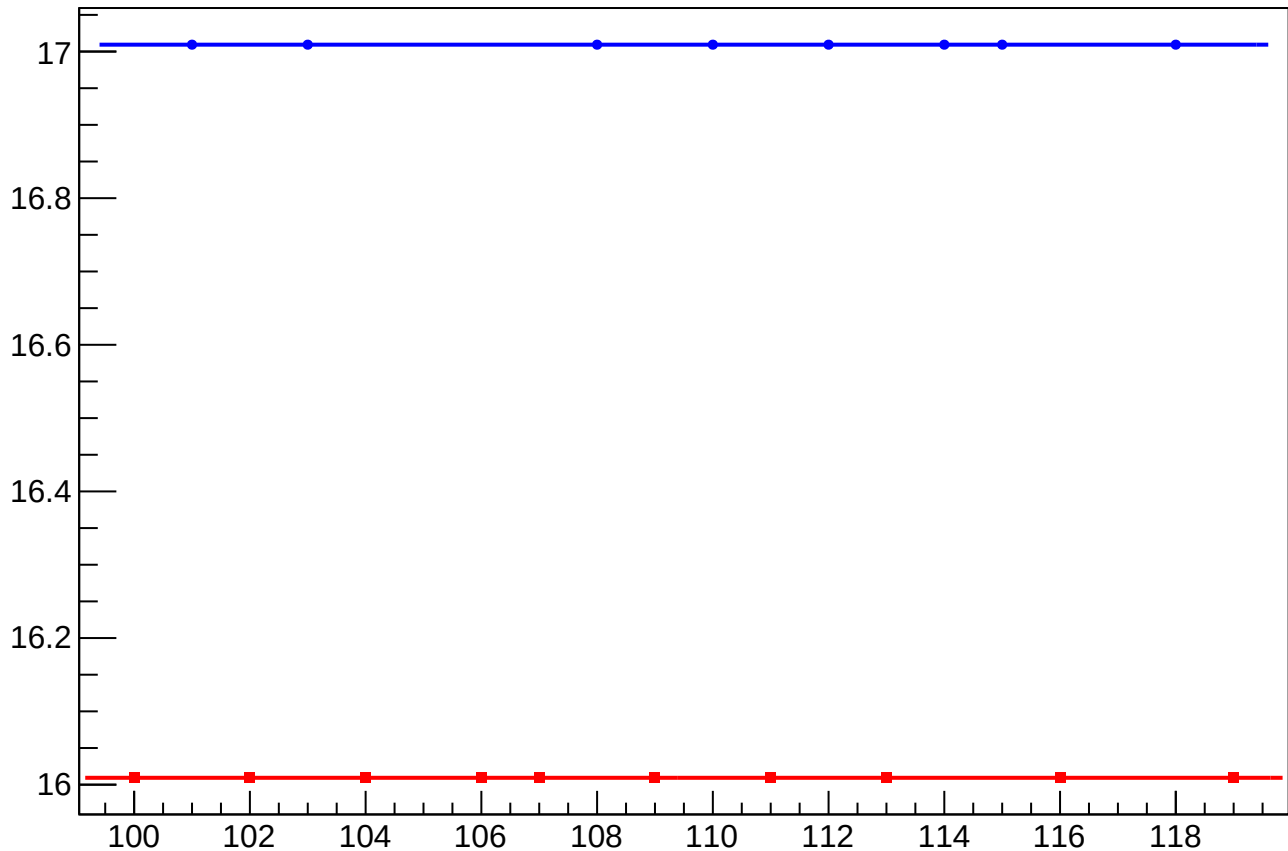
All: 16.535 $\pm$ 0.000  $\chi^2$ /NDF: 1755205029336

- 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



# IGL1I00OD16\_16\_mean vs Slug



Right In: 17.009 $\pm$ 0.000  $\chi^2$ /NDF: 25205.7/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.009 $\pm$ 0.000  $\chi^2$ /NDF: 33271.0/9

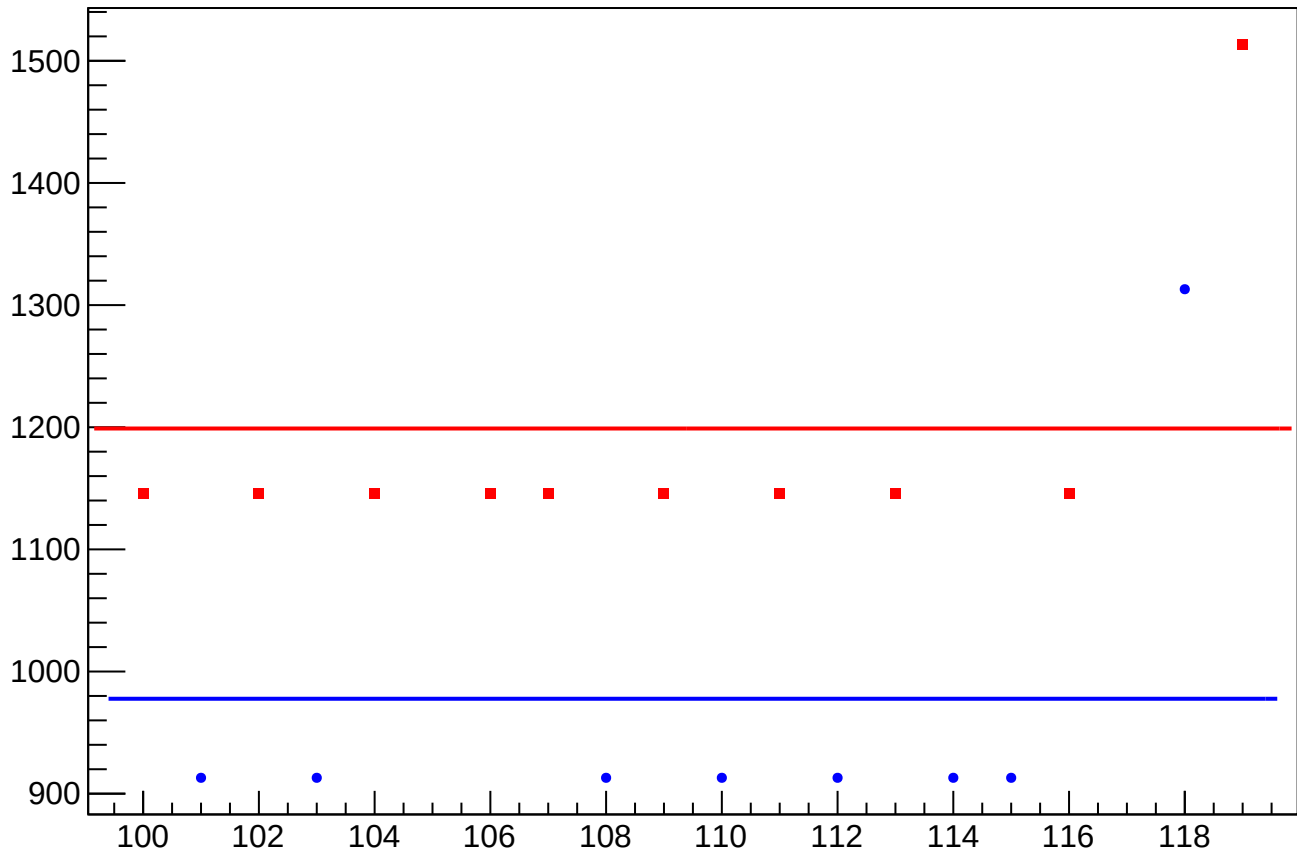
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.431 $\pm$ 0.000  $\chi^2$ /NDF: 1768468965517

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# RTPAPOSUCNT\_mean vs Slug



Right In: 977.702+/-0.000  $\chi^2/\text{NDF}$ : 7377044983300197364606753969073553408.0/7

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

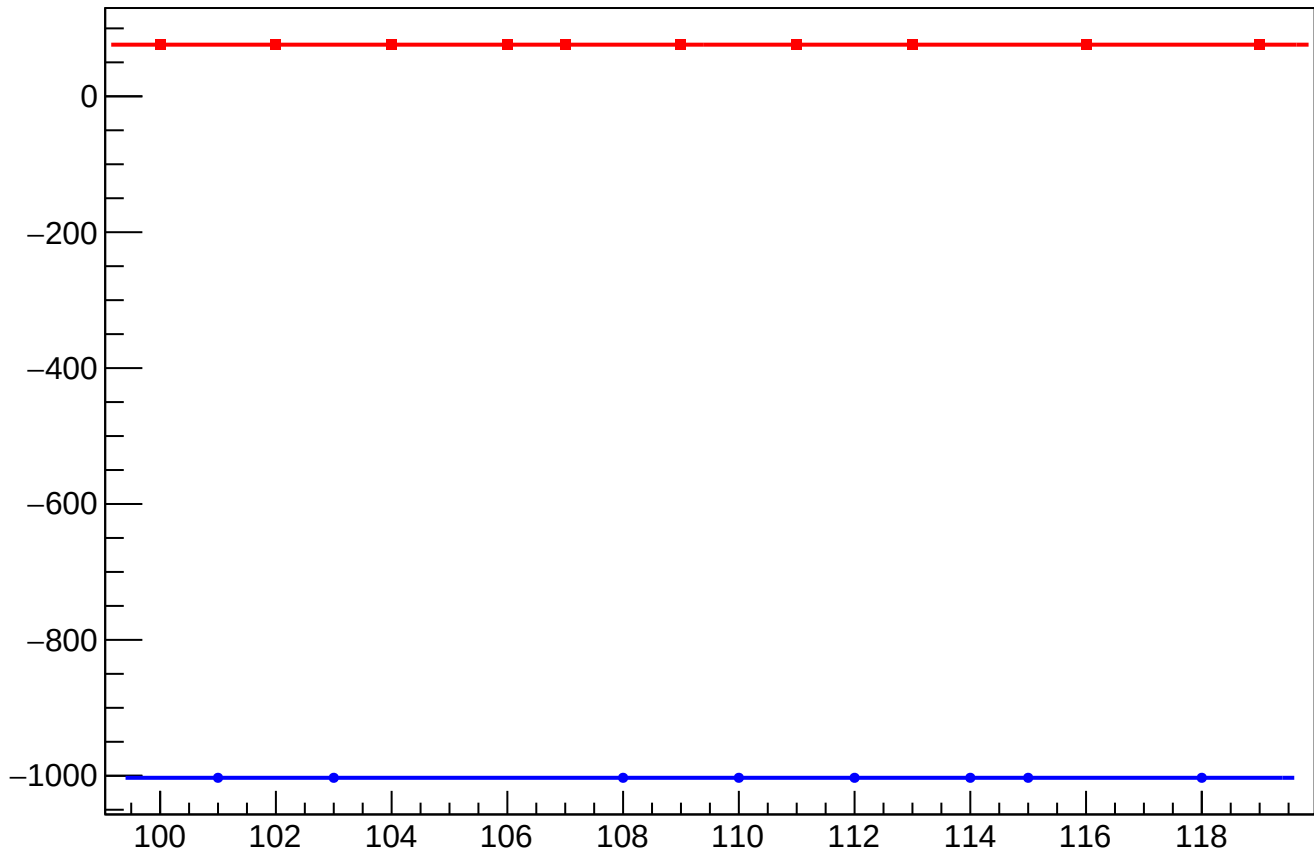
All: 1100.368+/-0.000  $\chi^2/\text{NDF}$ : 23644525912

Right Out: 1198.965+/-0.000  $\chi^2/\text{NDF}$ : 7039391114715689391823932788320501760.0/9

- 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+/-0.000  $\chi^2/\text{NDF}$ : 1304094537084536853587034112.0/7

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

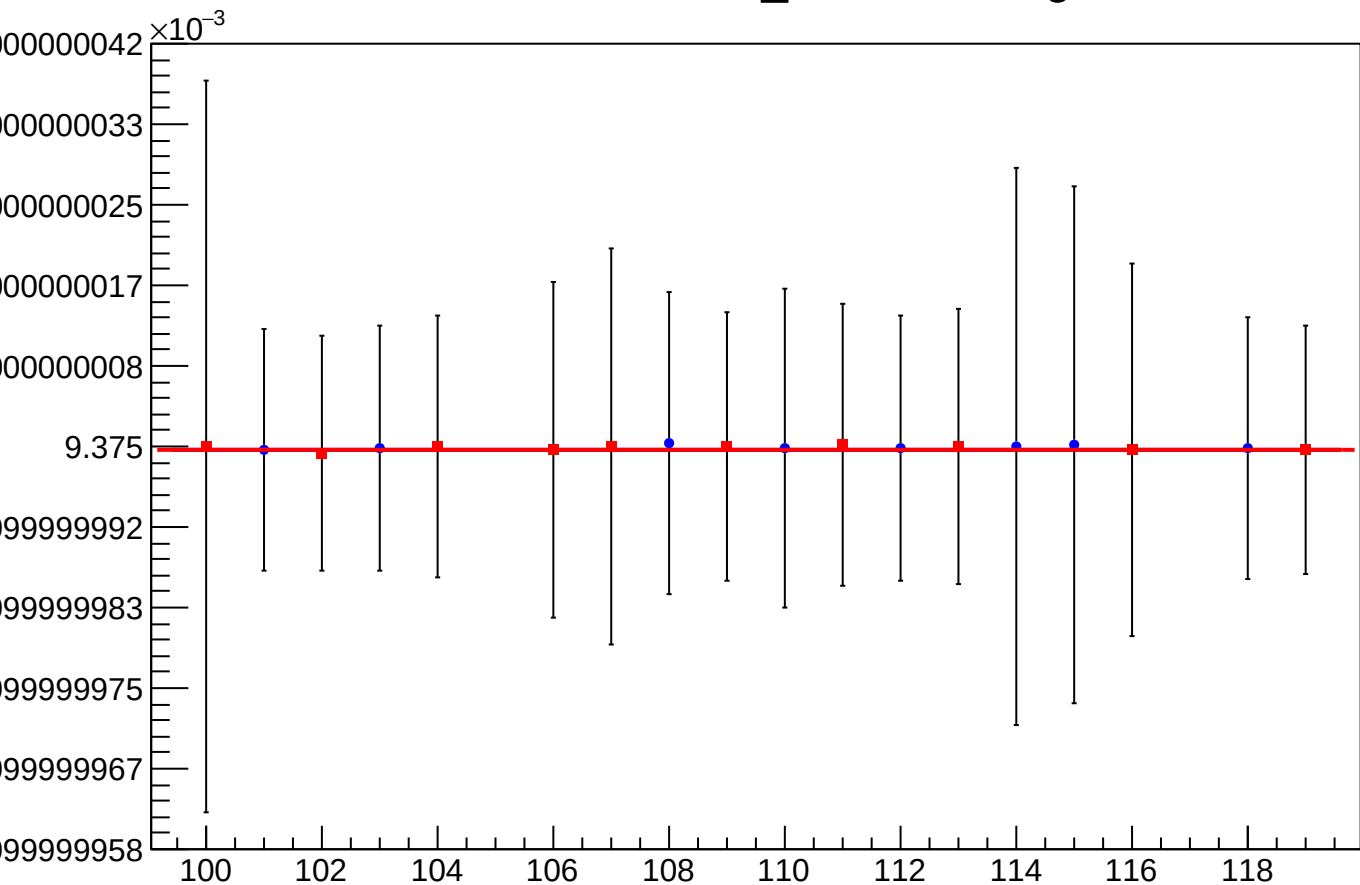
All: -404.802+/-0.000  $\chi^2/\text{NDF}$ : 21945085735

Right Out: 76.010+/-0.000  $\chi^2/\text{NDF}$ : 1283001181372912042550231040.0/9

- 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

# RTPPITA1CNT\_mean vs Slug



Right In: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/9

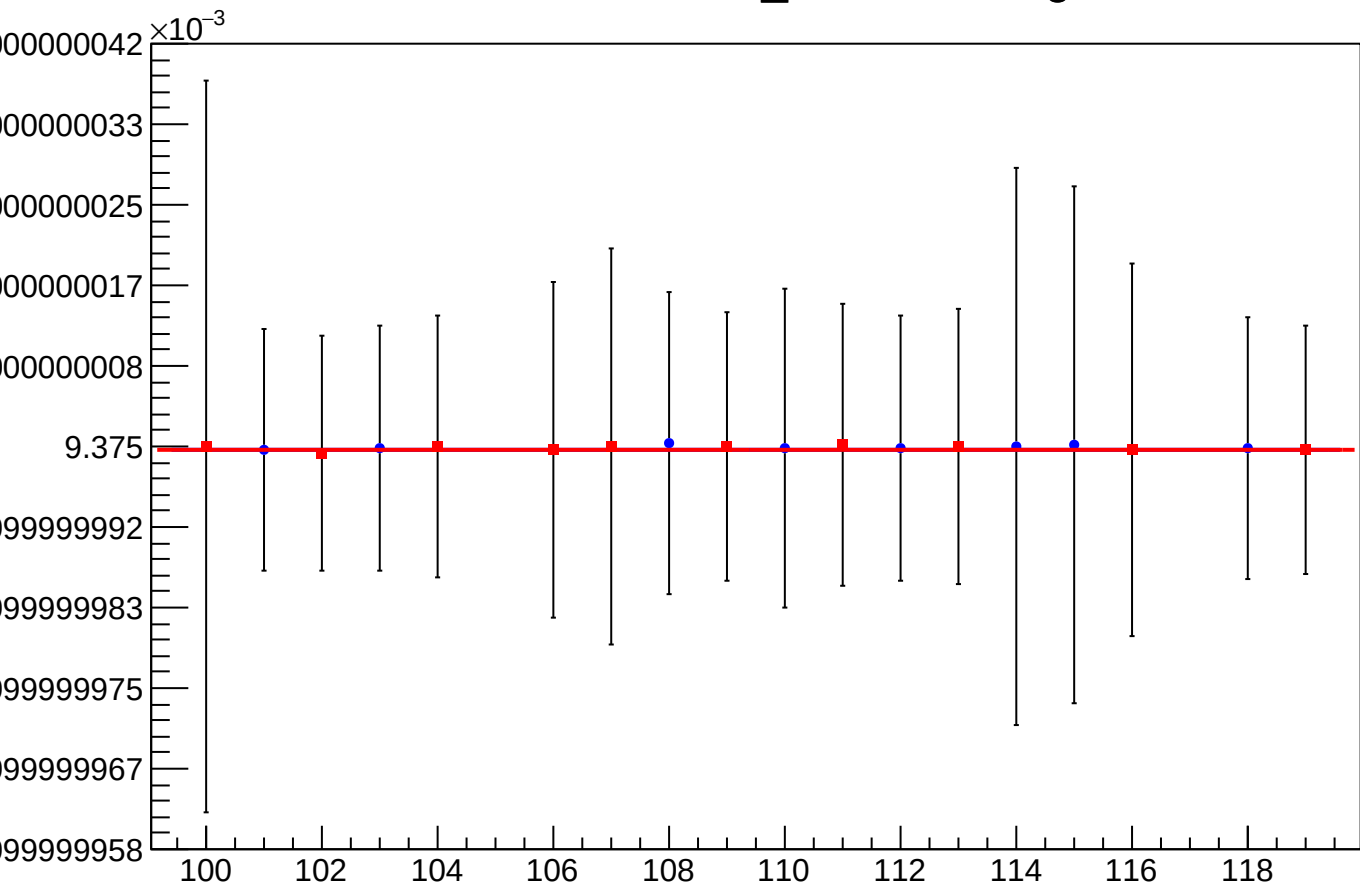
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/17

- 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: 0.0/7

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/9

Left In: 0.000 $\pm$ 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: 0.0/17

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0