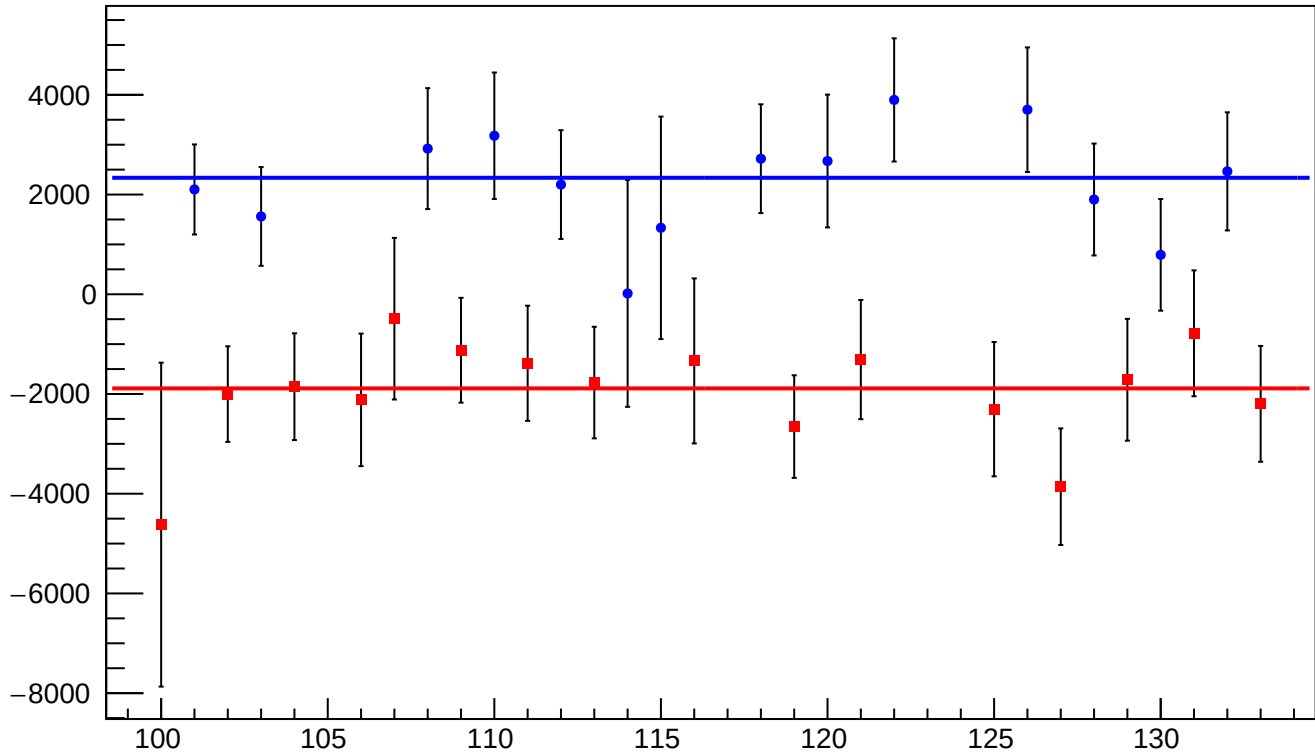


# reg\_asym\_us\_avg\_mean vs Slug



Right In: 2336.275+/-319.657

$\chi^2/\text{NDF}$ : 7.7/13

Left Out: 0.000+/-0.000

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

Right Out: -1887.597+/-304.472

$\chi^2/\text{NDF}$ : 6.9/15

Left In: 0.000+/-0.000

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

+ sign 0.000+/-0.000

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

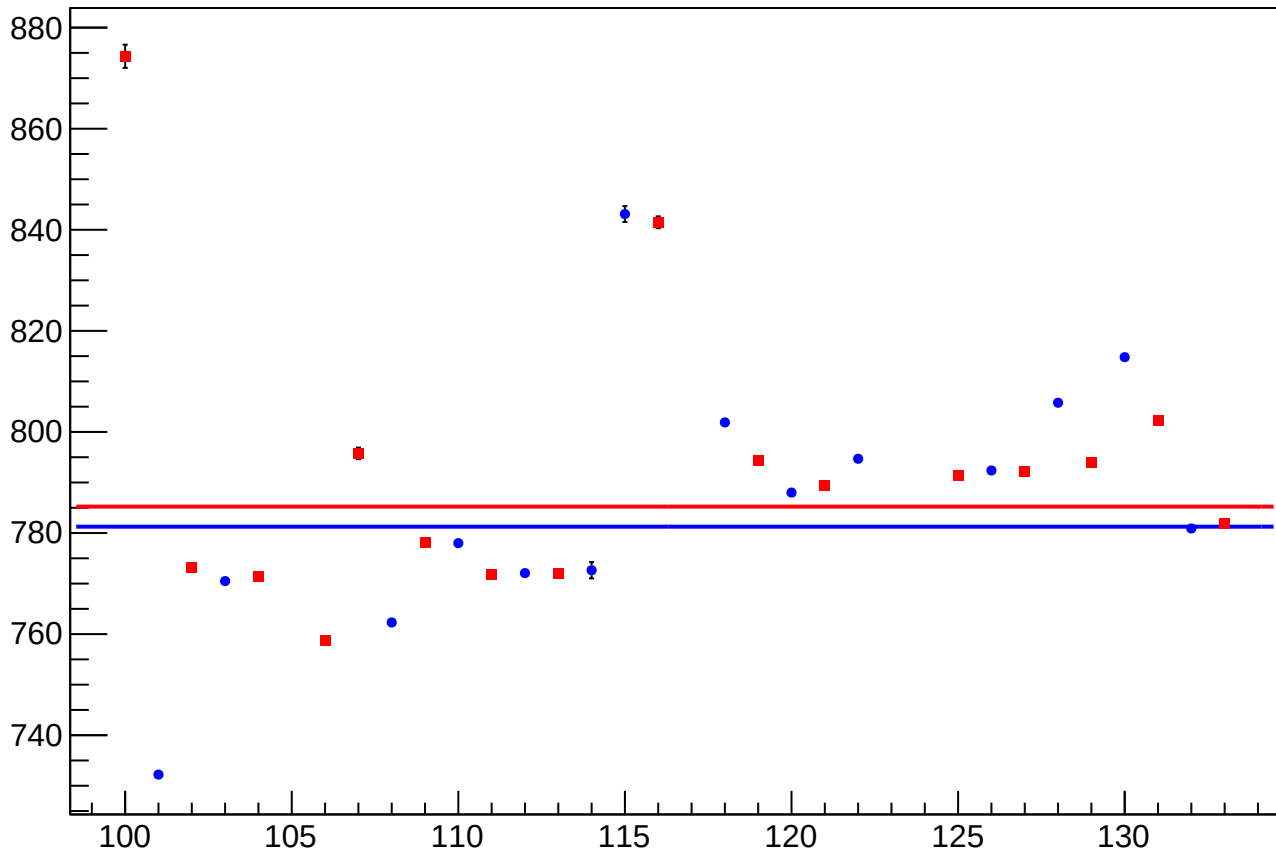
All: 121.635+/-220.467

$\chi^2/\text{NDF}$ : 106.1/29

- sign 0.000+/-0.000

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

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



Right In: 781.262 $\pm$ 0.226  $\chi^2$ /NDF: 12258.0/13

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

Right Out: 785.226 $\pm$ 0.215  $\chi^2$ /NDF: 6753.8/15

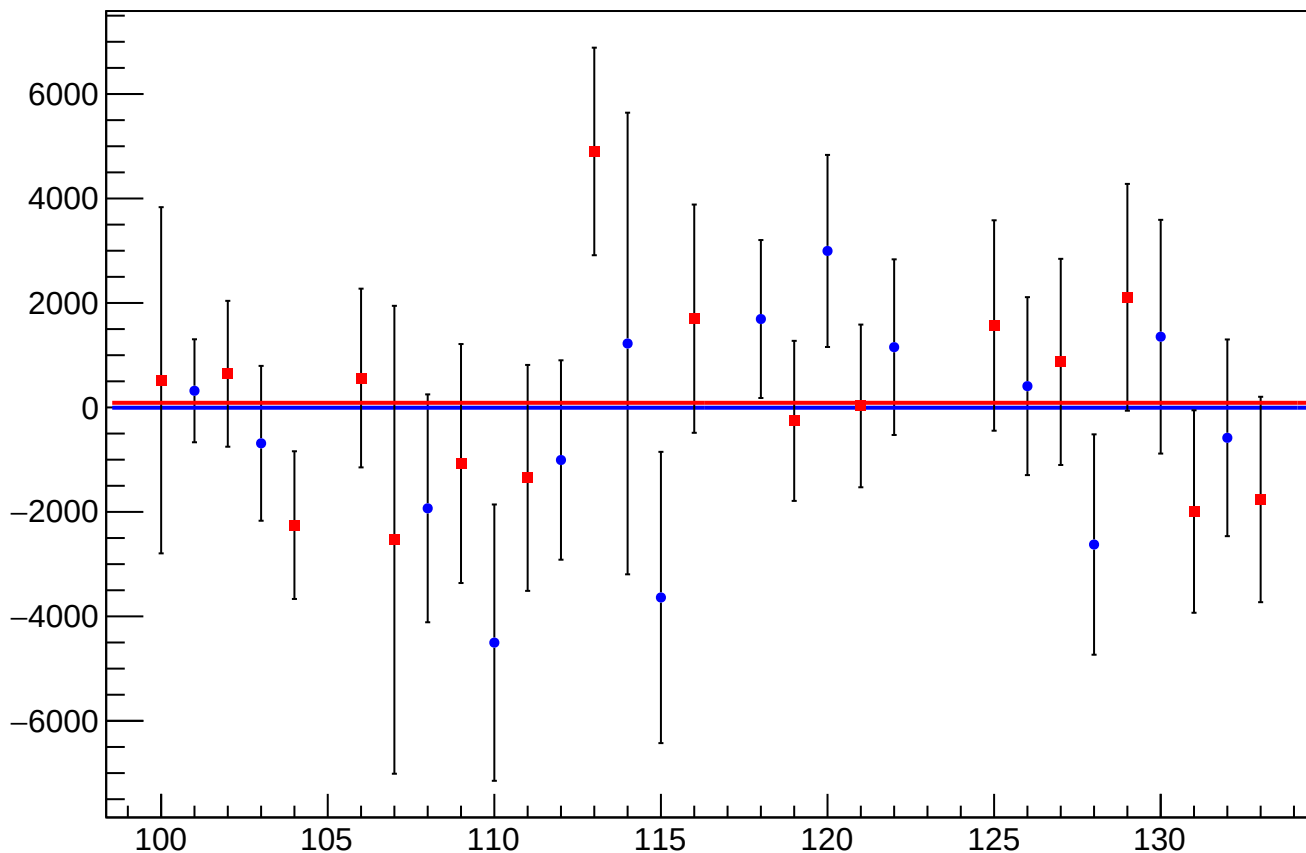
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 783.340 $\pm$ 0.156  $\chi^2$ /NDF: 19173.0/29

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

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



Right In: -5.329+/-475.139  $\chi^2$ /NDF: 12.5/13

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

Right Out: 88.798+/-474.460  $\chi^2$ /NDF: 14.1/15

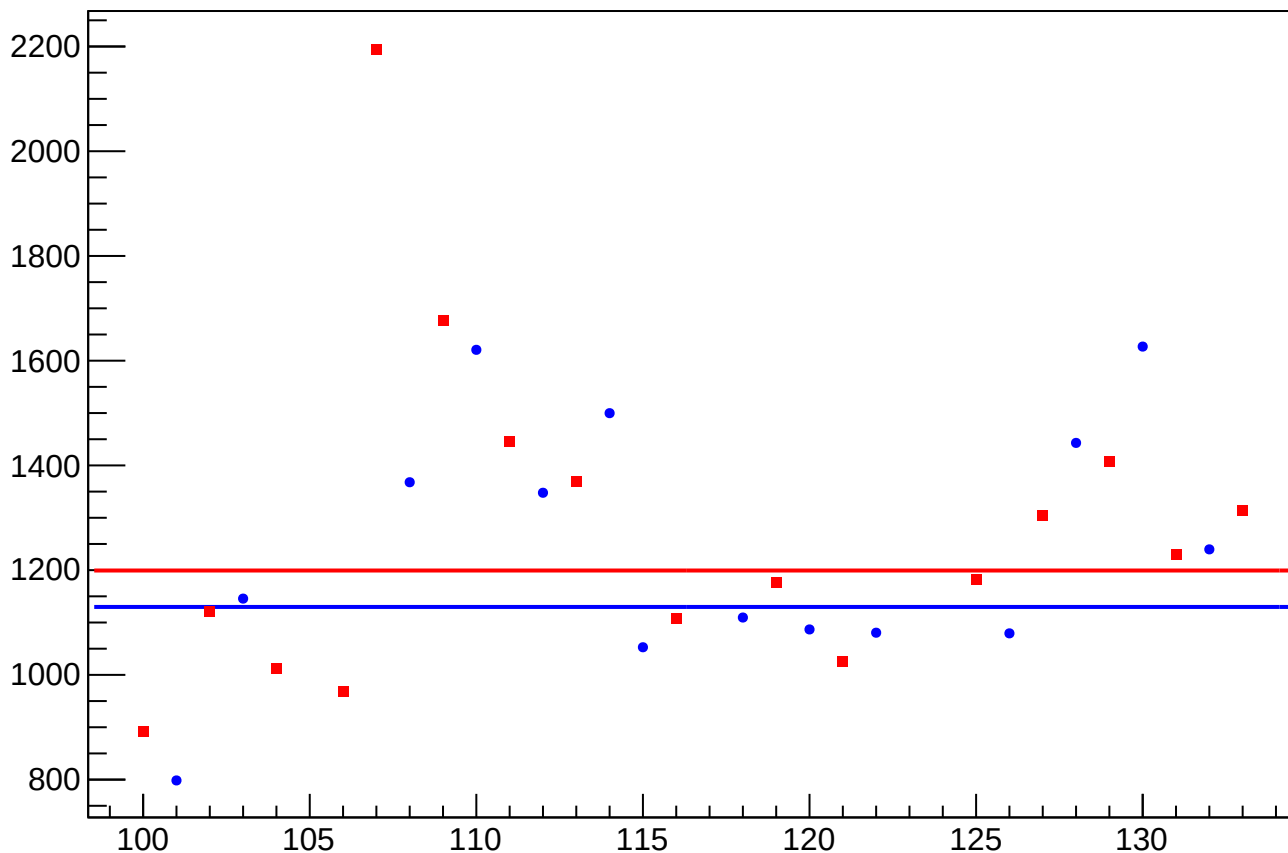
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: 41.802+/-335.734  $\chi^2$ /NDF: 26.6/29

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

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



Right In: 1129.736+/-0.336  $\chi^2/\text{NDF}$ : 515087.1/13

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

Right Out: 1199.311+/-0.335  $\chi^2/\text{NDF}$ : 381984.7/15

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

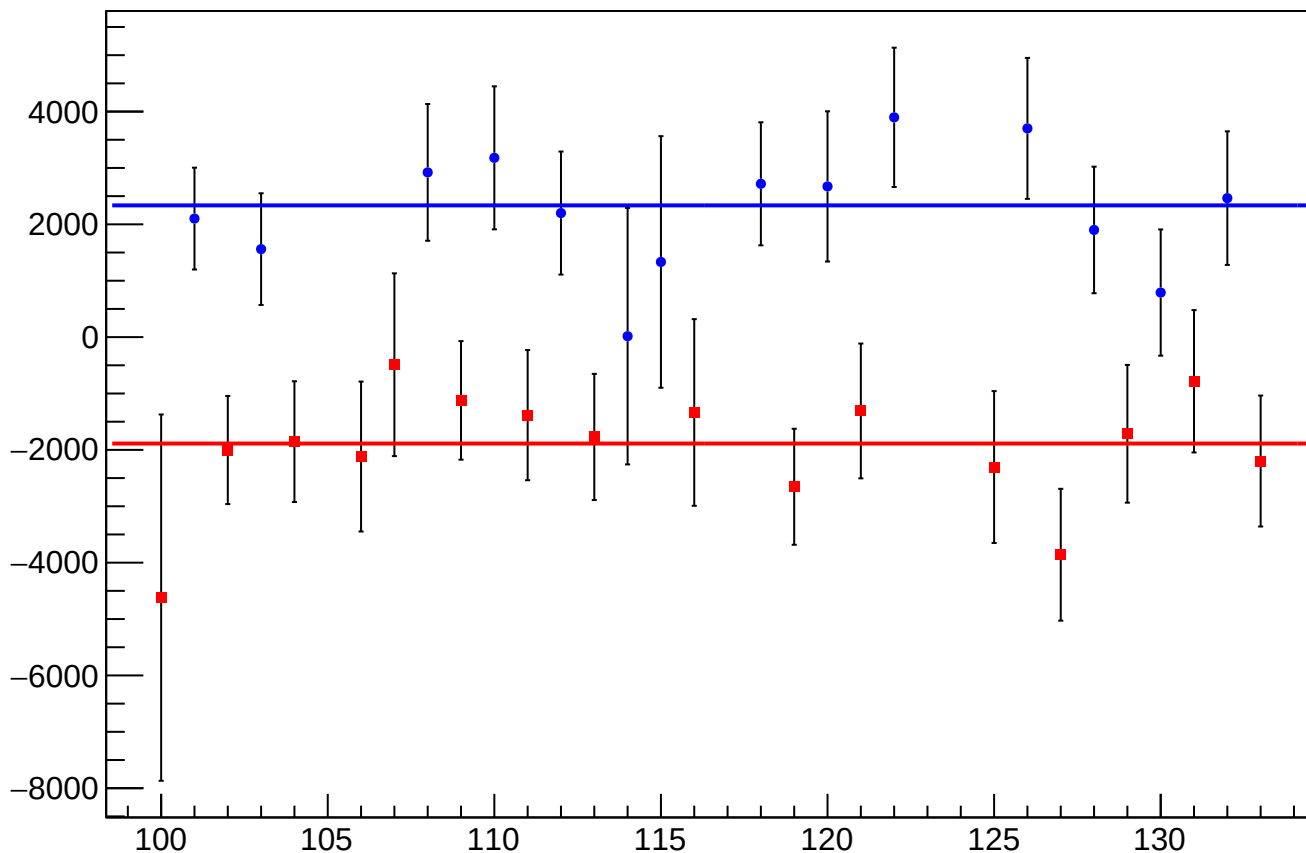
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1164.573+/-0.237  $\chi^2/\text{NDF}$ : 918544.1/29

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



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



Right In: 2336.275 $\pm$ 319.657  $\chi^2$ /NDF: 7.7/13

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

Right Out: -1887.597 $\pm$ 304.472  $\chi^2$ /NDF: 6.9/15

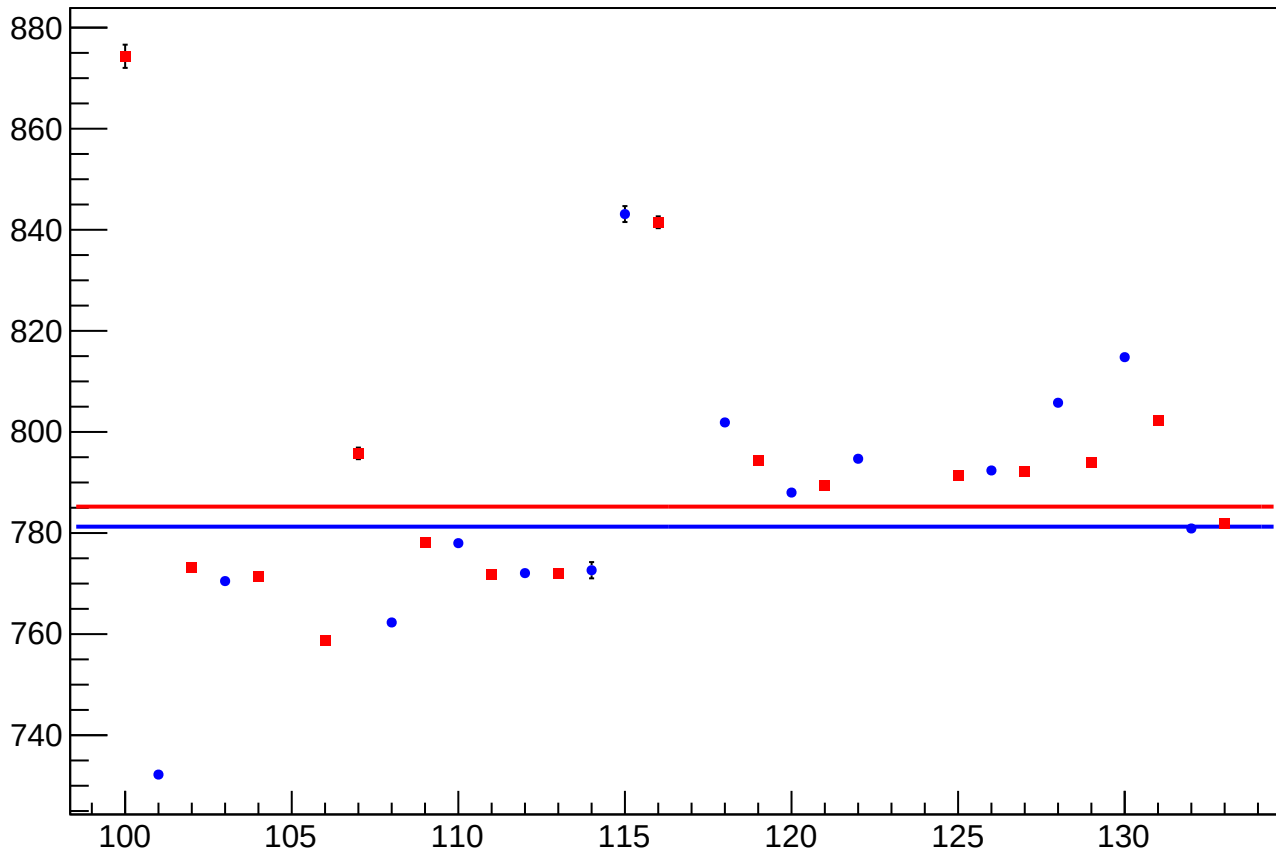
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 121.635 $\pm$ 220.467  $\chi^2$ /NDF: 106.1/29

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

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



Right In: 781.262 $\pm$ 0.226  $\chi^2$ /NDF: 12258.0/13

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

Right Out: 785.226 $\pm$ 0.215  $\chi^2$ /NDF: 6753.8/15

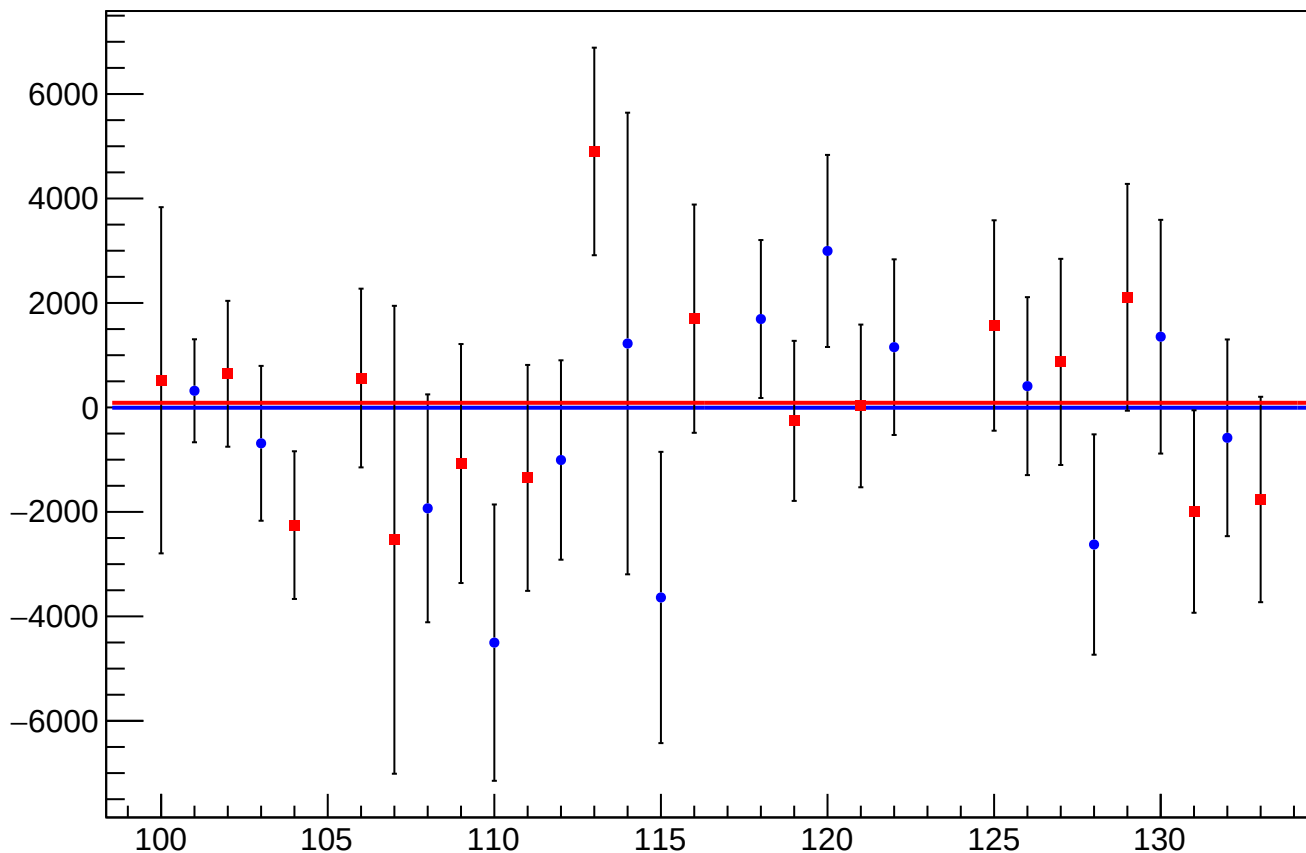
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 783.340 $\pm$ 0.156  $\chi^2$ /NDF: 19173.0/29

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

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



Right In:  $-5.329 \pm 475.139$   $\chi^2/\text{NDF}$ : 12.5/13

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

Right Out:  $88.798 \pm 474.460$   $\chi^2/\text{NDF}$ : 14.1/15

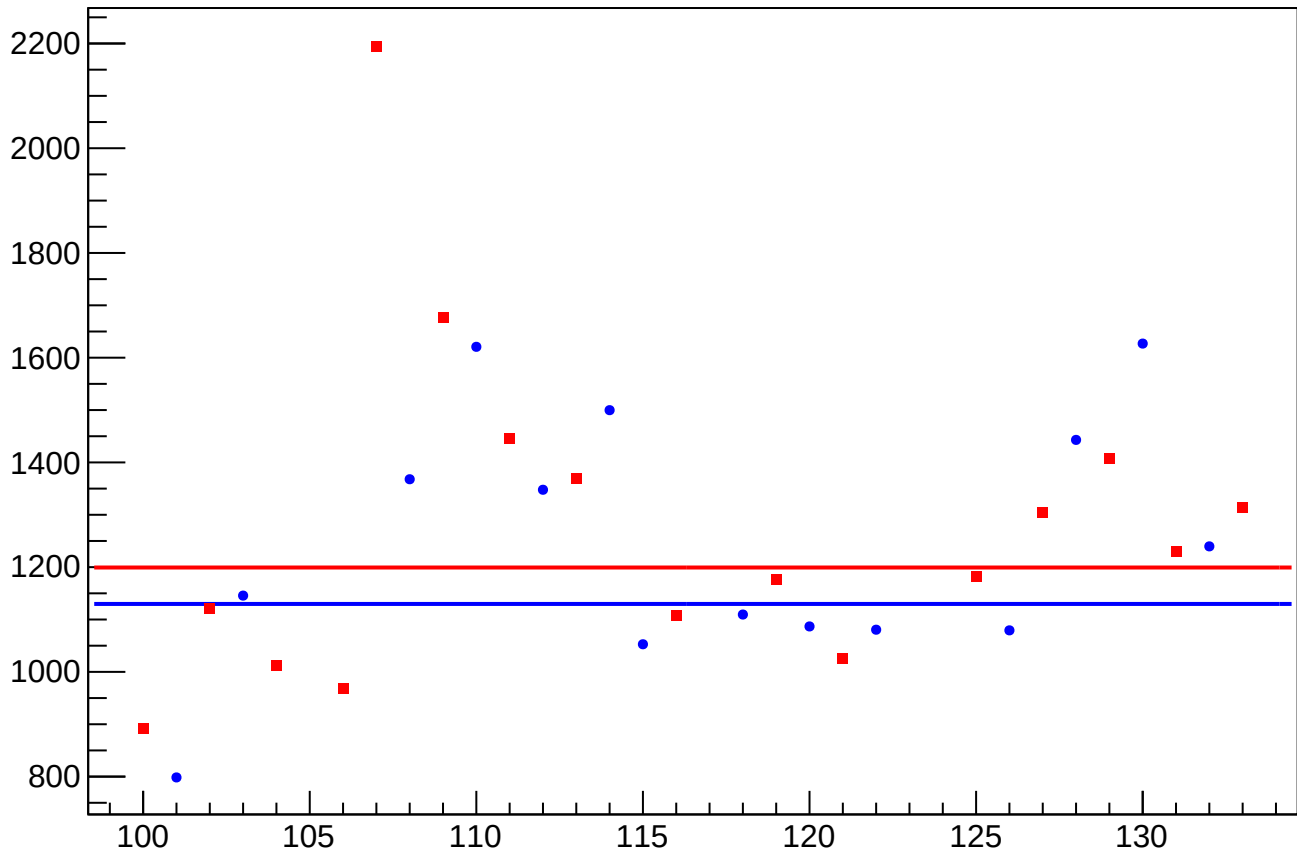
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $41.802 \pm 335.734$   $\chi^2/\text{NDF}$ : 26.6/29

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

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



Right In: 1129.736+/-0.336  $\chi^2/\text{NDF}$ : 515087.1/13

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

Right Out: 1199.311+/-0.335  $\chi^2/\text{NDF}$ : 381984.7/15

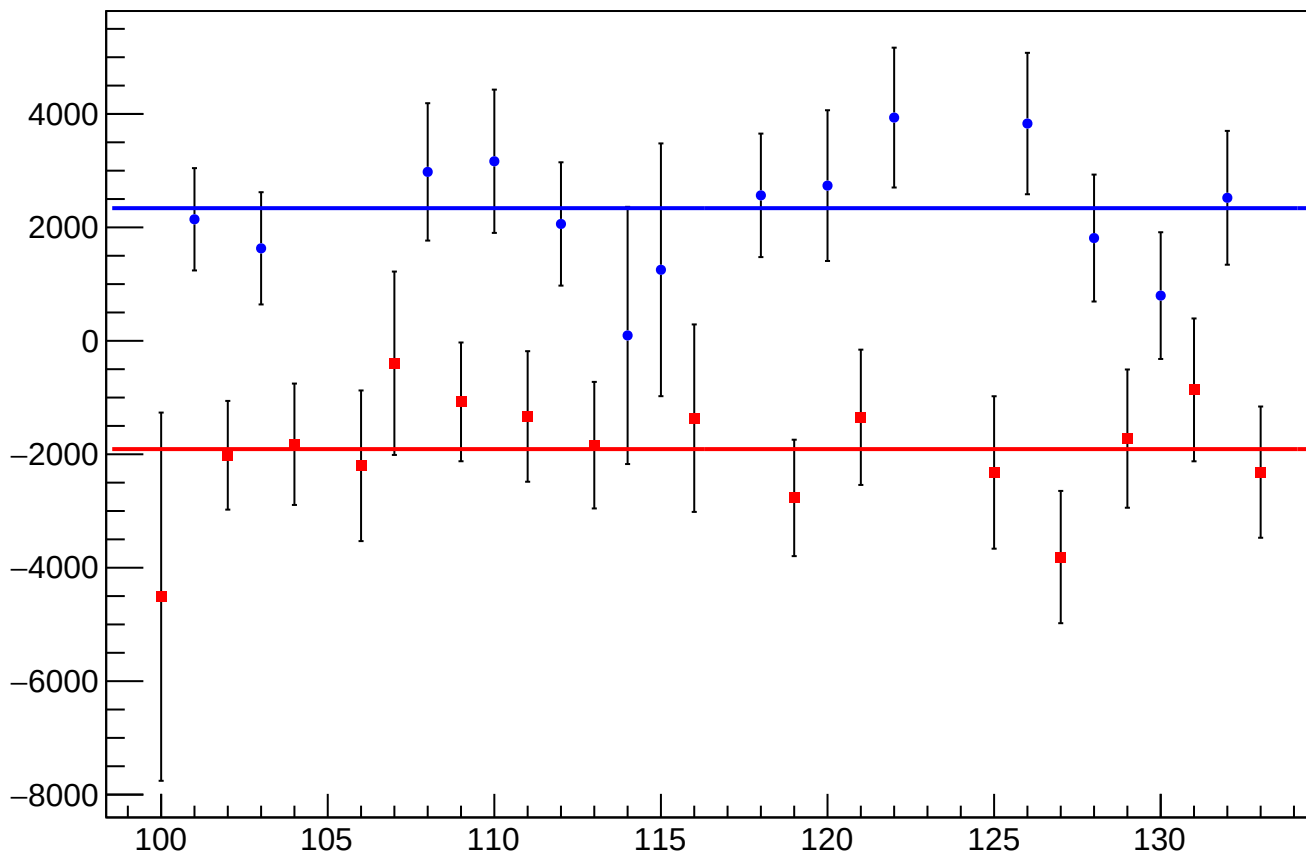
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1164.573+/-0.237  $\chi^2/\text{NDF}$ : 918544.1/29

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

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



Right In: 2339.092 $\pm$ 318.928  $\chi^2$ /NDF: 7.9/13

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

Right Out: -1908.721 $\pm$ 303.767  $\chi^2$ /NDF: 7.1/15

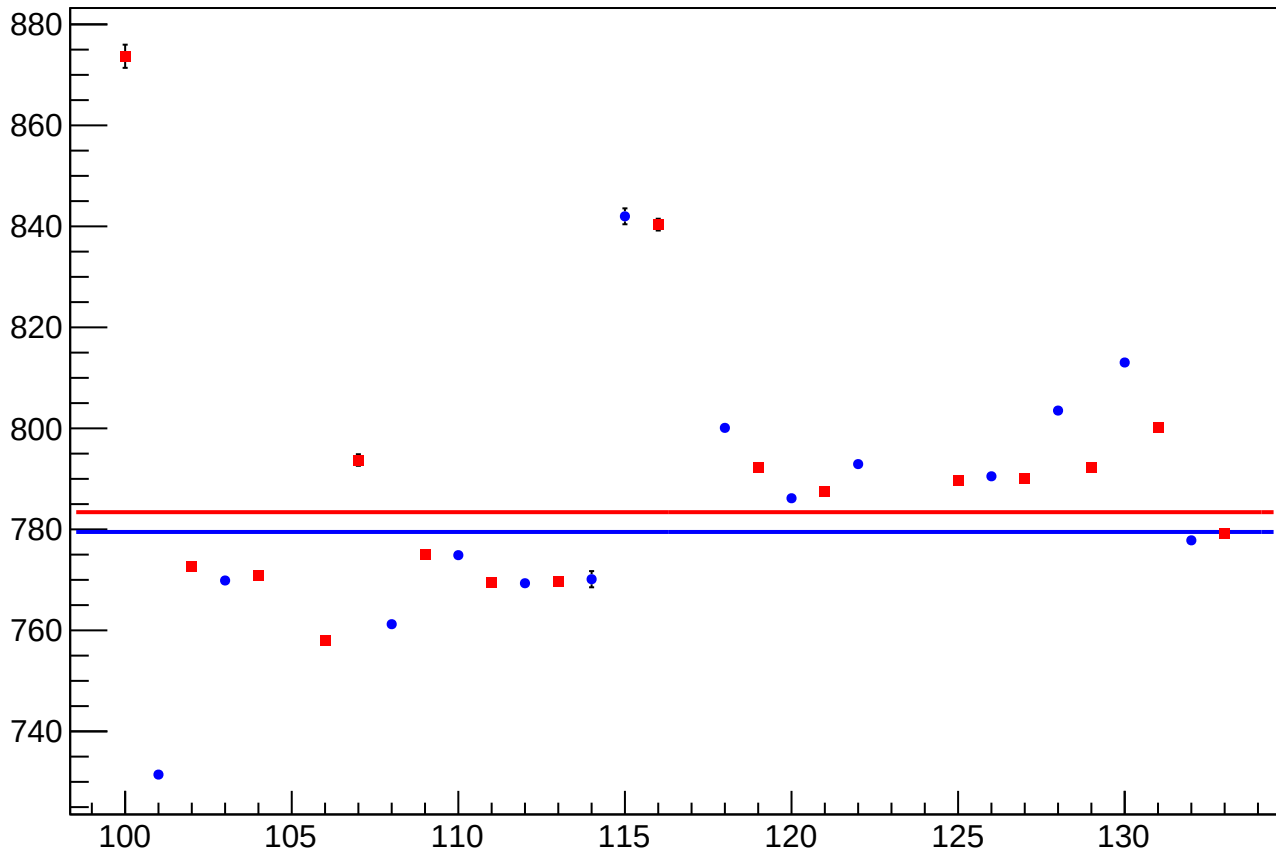
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 111.824 $\pm$ 219.960  $\chi^2$ /NDF: 108.1/29

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

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



Right In: 779.486 $\pm$ 0.226  $\chi^2$ /NDF: 12019.5/13

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

Right Out: 783.406 $\pm$ 0.215  $\chi^2$ /NDF: 6754.7/15

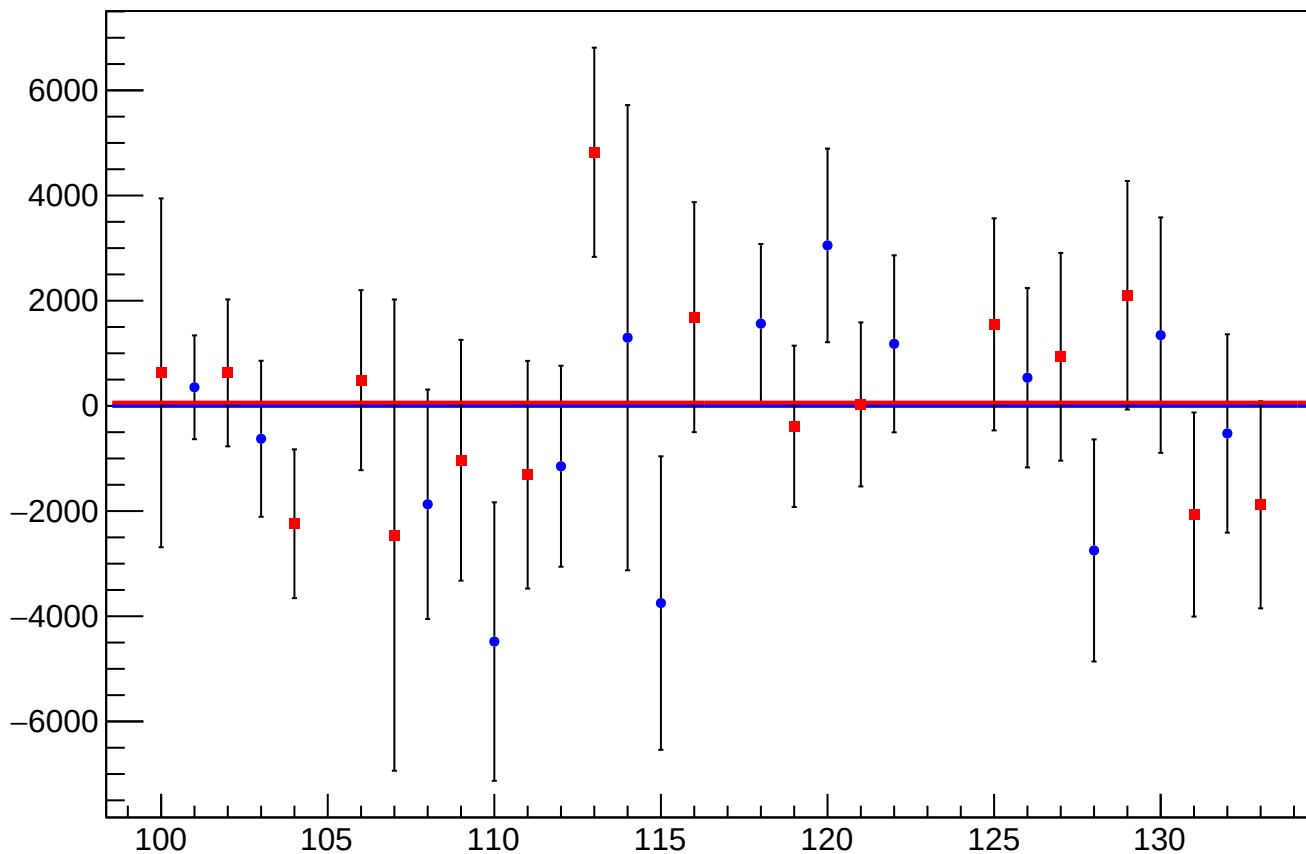
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 781.541 $\pm$ 0.156  $\chi^2$ /NDF: 18932.6/29

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

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



Right In: 1.234+/-475.597  $\chi^2/\text{NDF}$ : 12.7/13

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

Right Out: 62.653+/-474.868  $\chi^2/\text{NDF}$ : 14.0/15

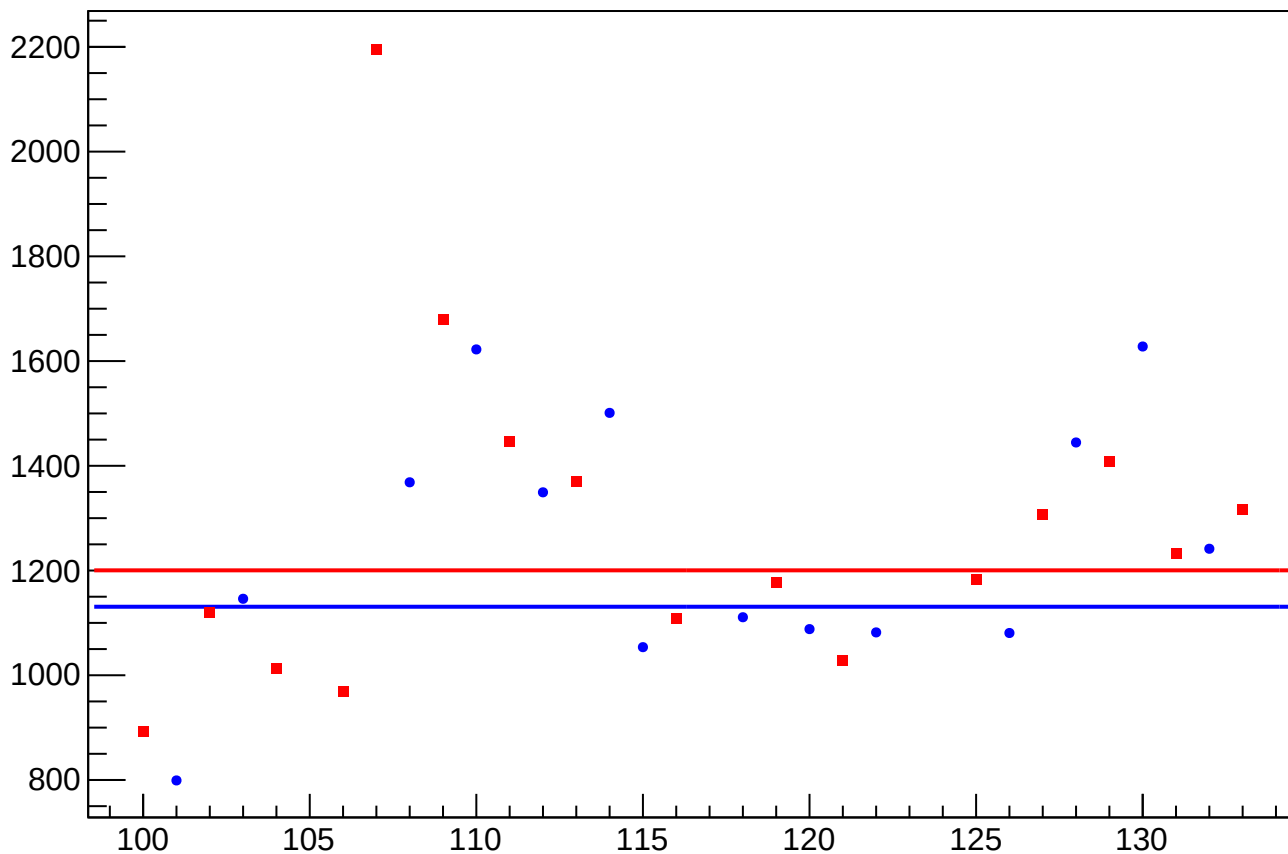
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 31.991+/-336.040  $\chi^2/\text{NDF}$ : 26.7/29

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

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



Right In: 1130.847+/-0.336  $\chi^2/\text{NDF}$ : 514962.5/13

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: 1200.349+/-0.336  $\chi^2/\text{NDF}$ : 382107.3/15

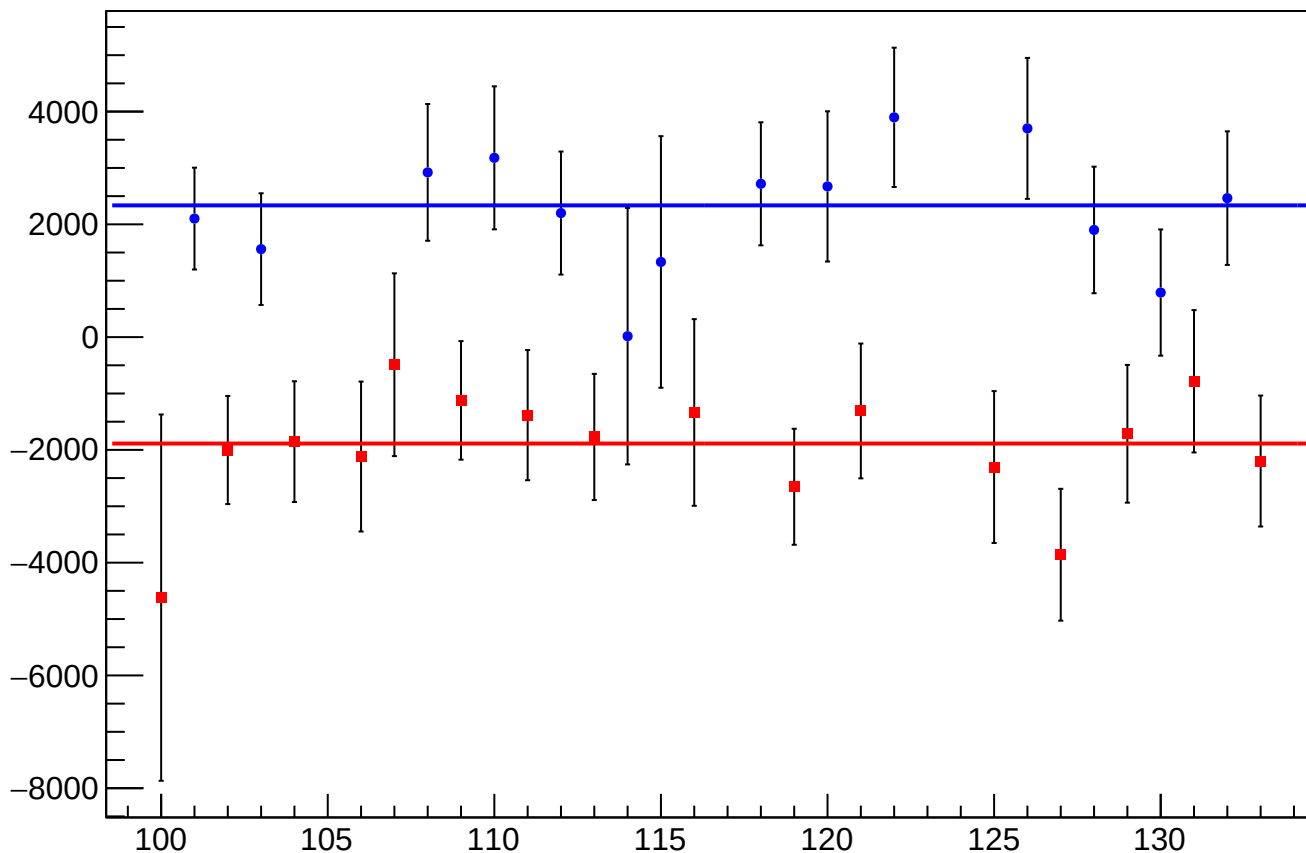
All: 1165.651+/-0.238  $\chi^2/\text{NDF}$ : 918458.7/29

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

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



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



Right In: 2336.275 $\pm$ 319.657  $\chi^2$ /NDF: 7.7/13

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

Right Out: -1887.597 $\pm$ 304.472  $\chi^2$ /NDF: 6.9/15

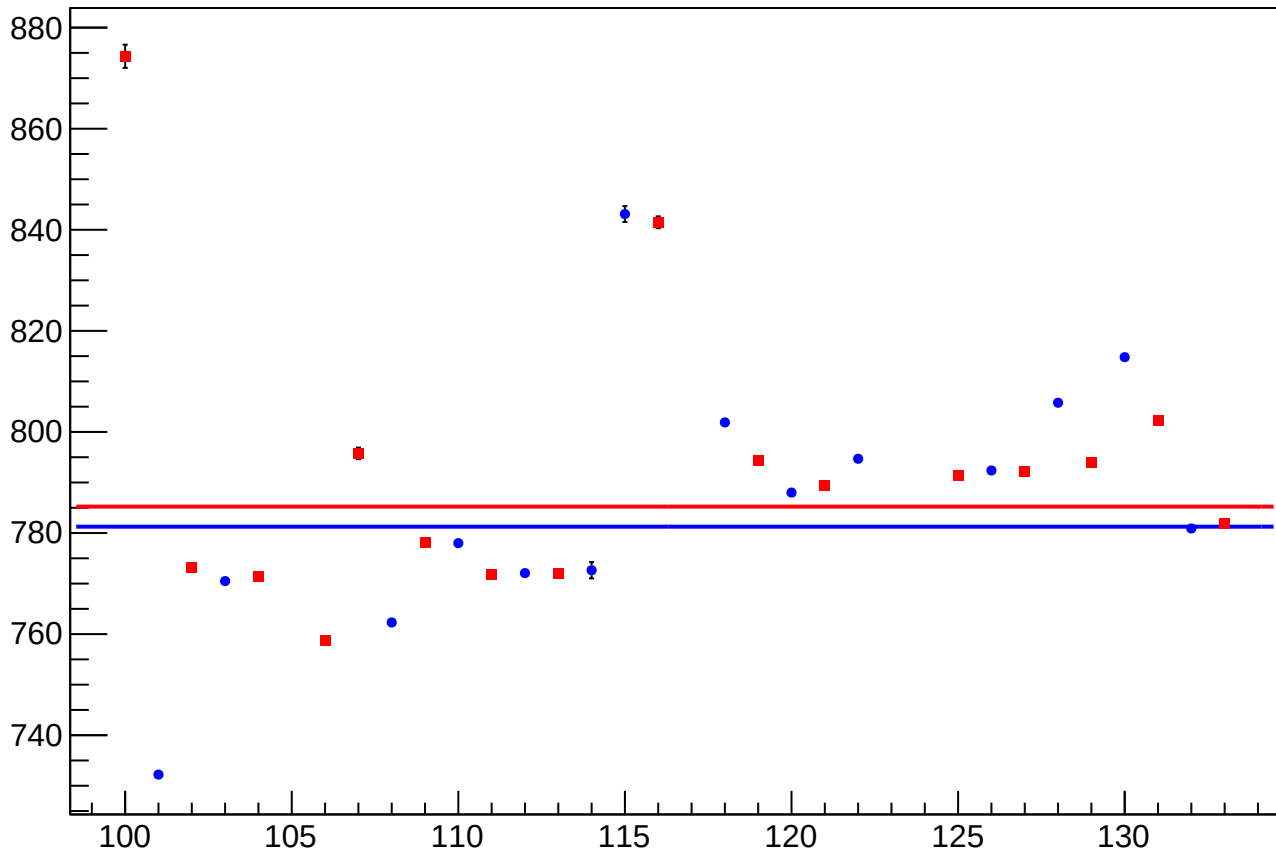
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 121.635 $\pm$ 220.467  $\chi^2$ /NDF: 106.1/29

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

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



Right In: 781.262 $\pm$ 0.226  $\chi^2$ /NDF: 12258.0/13

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

Right Out: 785.226 $\pm$ 0.215  $\chi^2$ /NDF: 6753.8/15

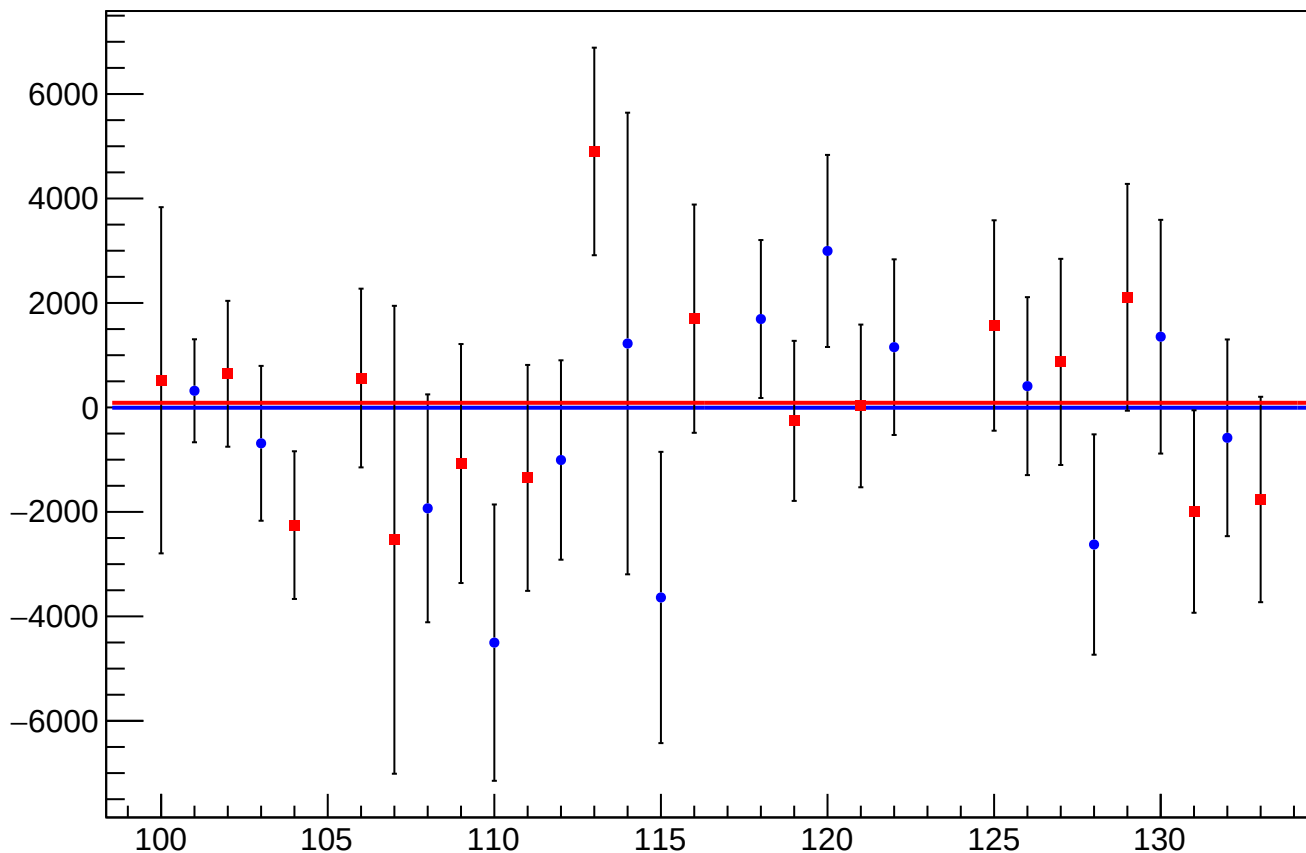
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 783.340 $\pm$ 0.156  $\chi^2$ /NDF: 19173.0/29

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

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



Right In: -5.329+/-475.139  $\chi^2/\text{NDF}$ : 12.5/13

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

Right Out: 88.798+/-474.460  $\chi^2/\text{NDF}$ : 14.1/15

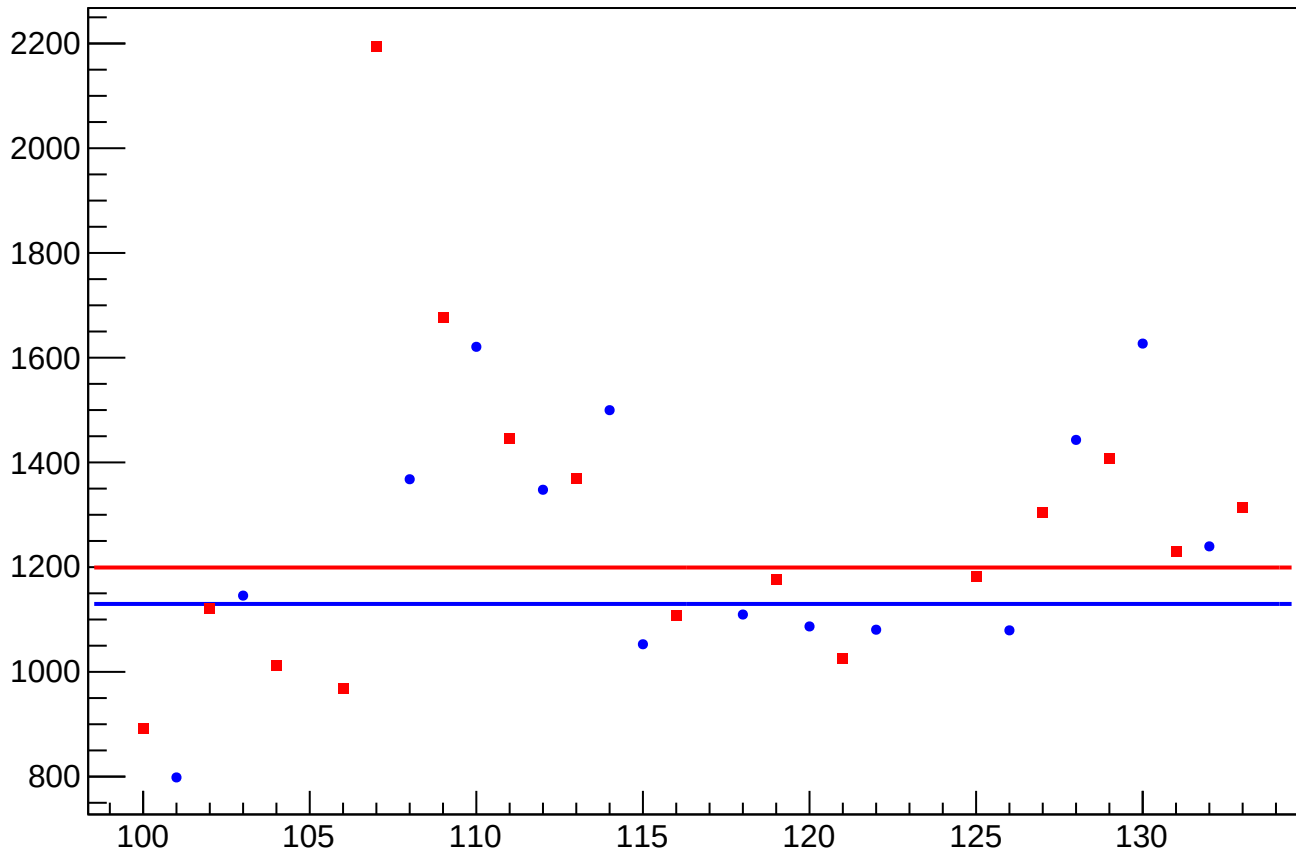
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 41.802+/-335.734  $\chi^2/\text{NDF}$ : 26.6/29

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

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



Right In: 1129.736 $\pm$ 0.336  $\chi^2$ /NDF: 515087.1/13

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

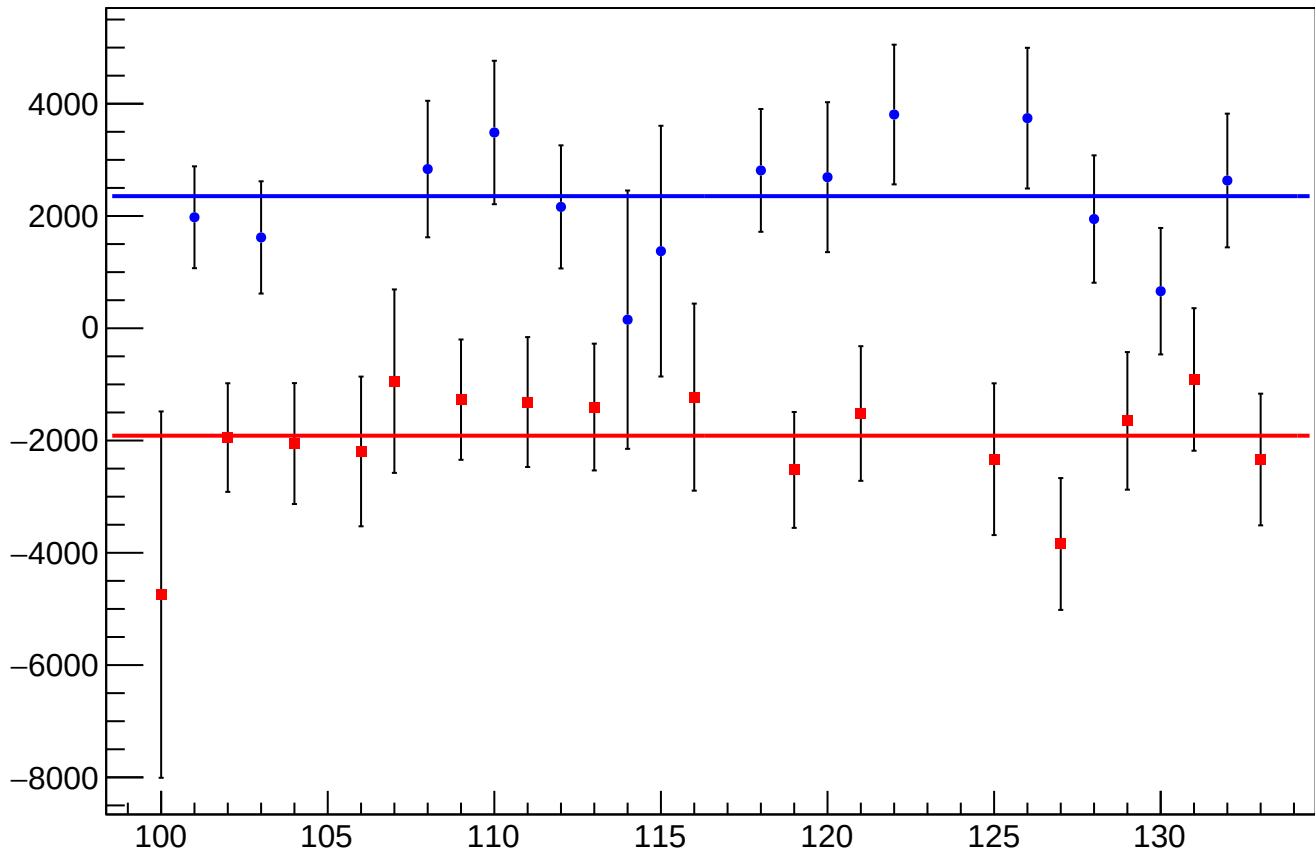
Right Out: 1199.311 $\pm$ 0.335  $\chi^2$ /NDF: 381984.7/15

All: 1164.573 $\pm$ 0.237  $\chi^2$ /NDF: 918544.1/29

- 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\_us\_avg\_mean vs Slug



Right In: 2353.702 $\pm$ 321.533  $\chi^2$ /NDF: 8.1/13

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

Right Out: -1913.590 $\pm$ 306.537  $\chi^2$ /NDF: 6.2/15

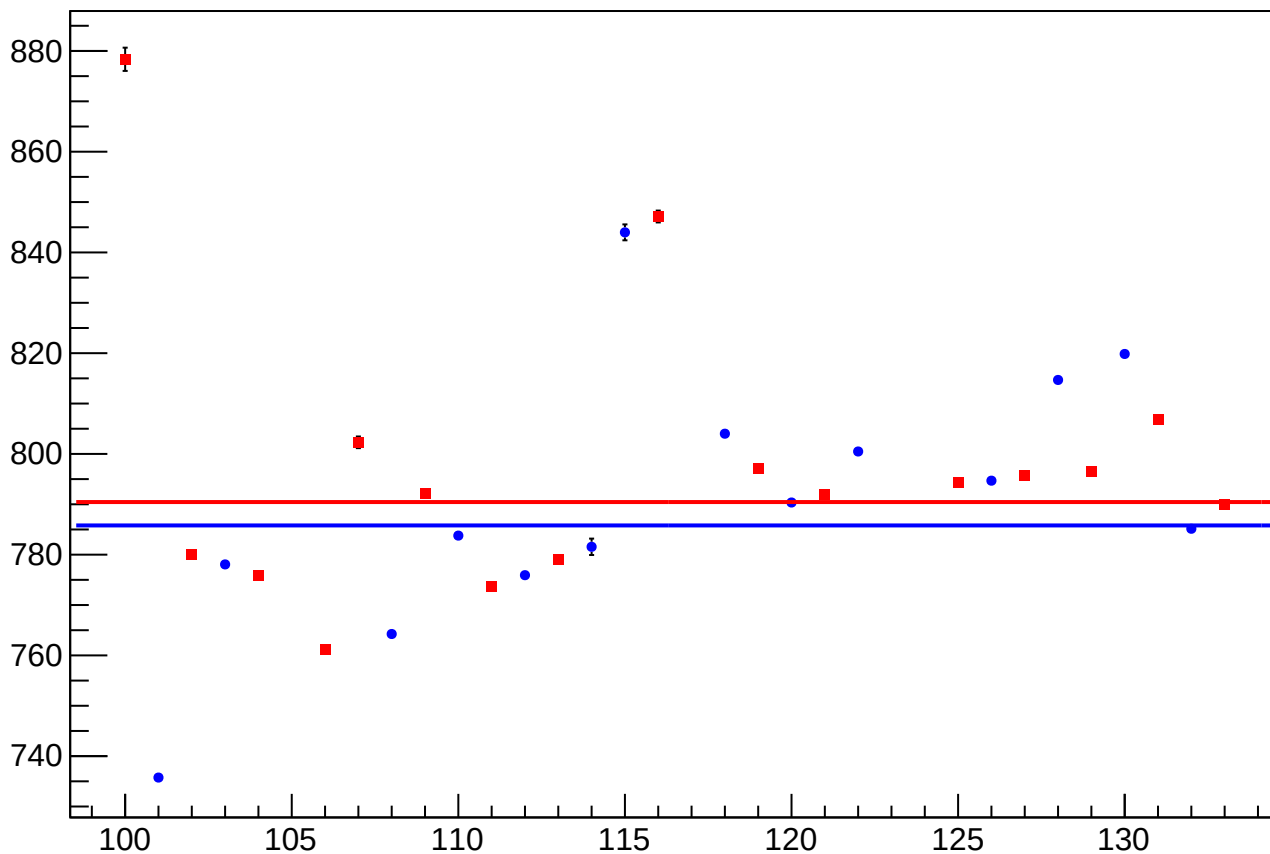
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 118.228 $\pm$ 221.866  $\chi^2$ /NDF: 106.6/29

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

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



Right In: 785.802 $\pm$ 0.227  $\chi^2$ /NDF: 12445.9/13

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

Right Out: 790.445 $\pm$ 0.217  $\chi^2$ /NDF: 6584.8/15

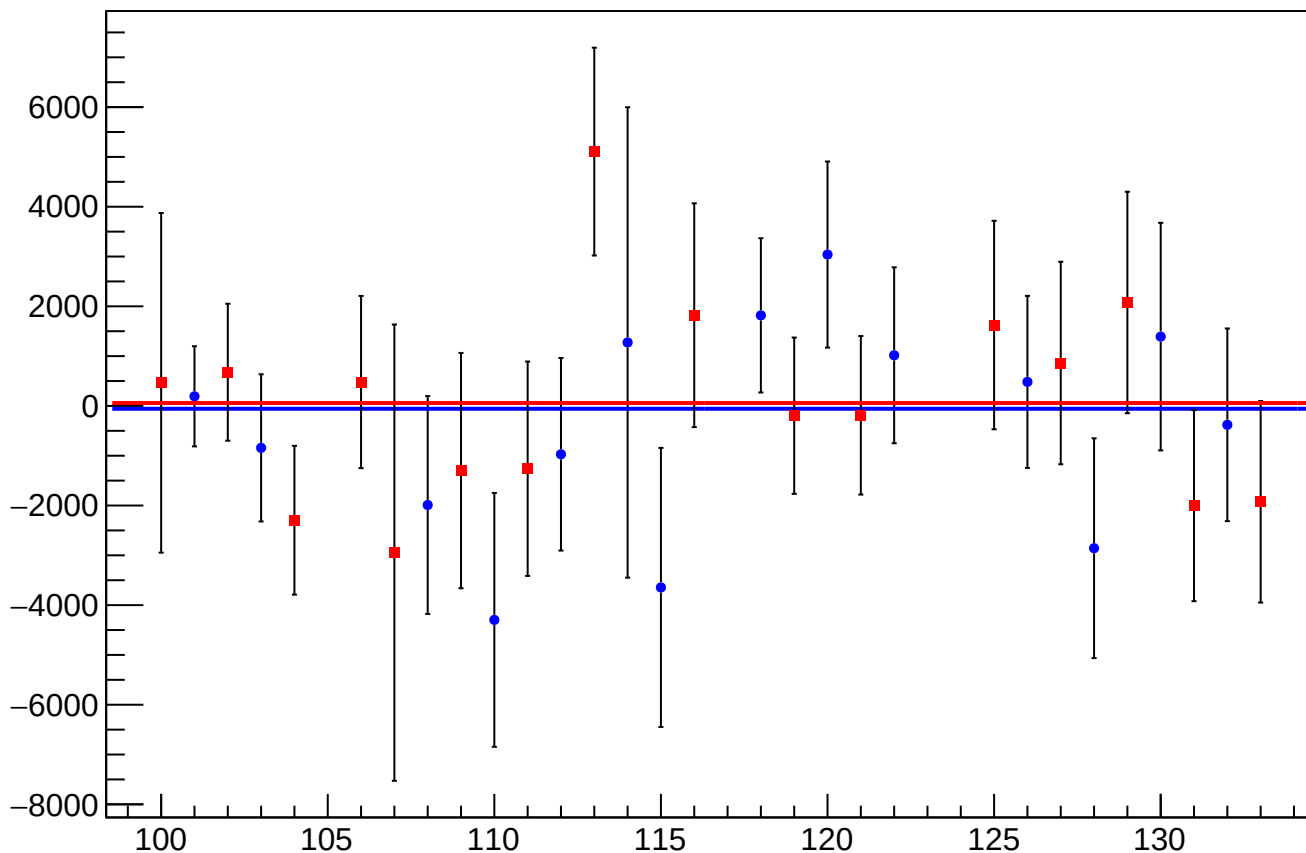
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 788.234 $\pm$ 0.157  $\chi^2$ /NDF: 19249.2/29

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

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



Right In: -57.016+/-483.778     $\chi^2/\text{NDF}$ : 12.6/13

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

Right Out: 58.508+/-484.698     $\chi^2/\text{NDF}$ : 14.1/15

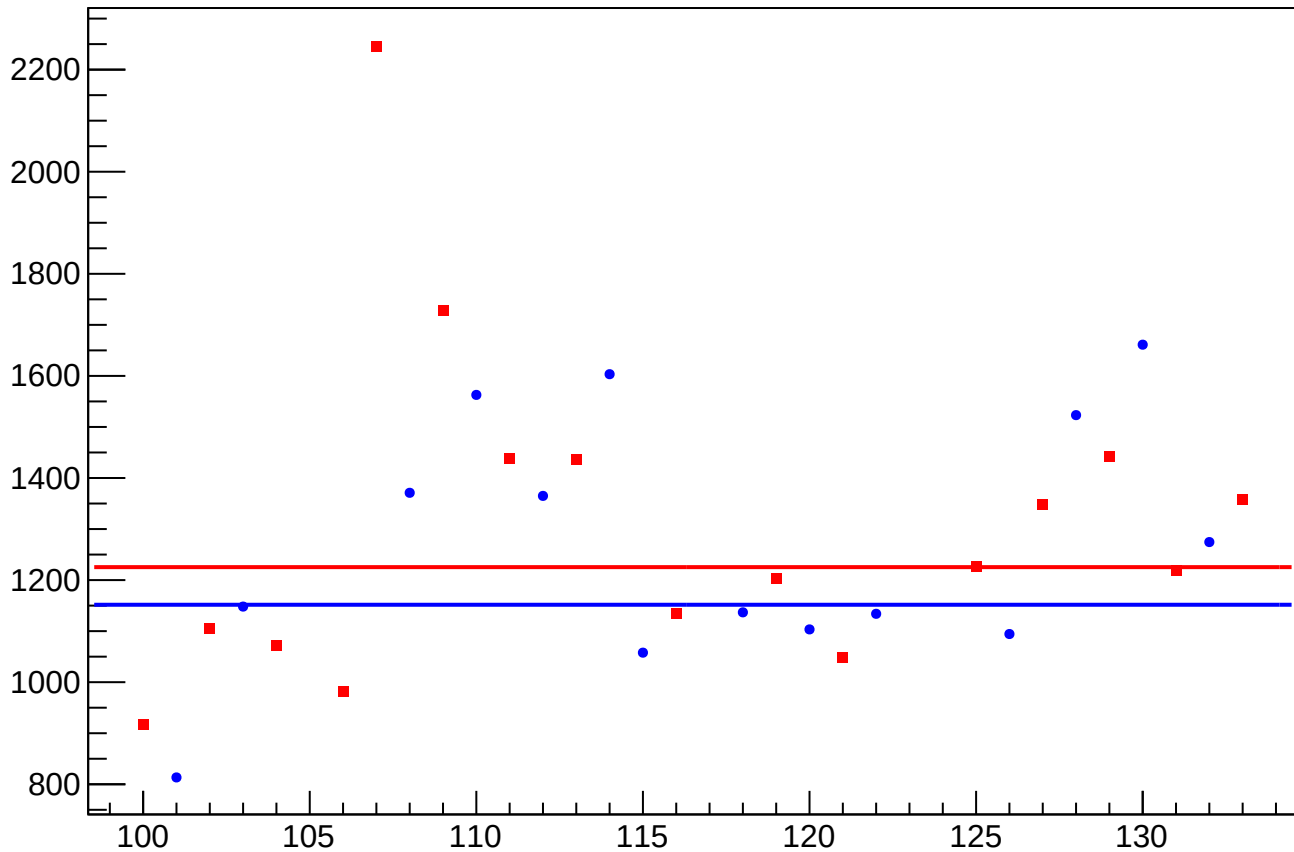
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.637+/-342.407     $\chi^2/\text{NDF}$ : 26.7/29

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

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



Right In: 1151.683+/-0.342  $\chi^2/\text{NDF}$ : 511507.9/13

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: 1225.389+/-0.343  $\chi^2/\text{NDF}$ : 385444.1/15

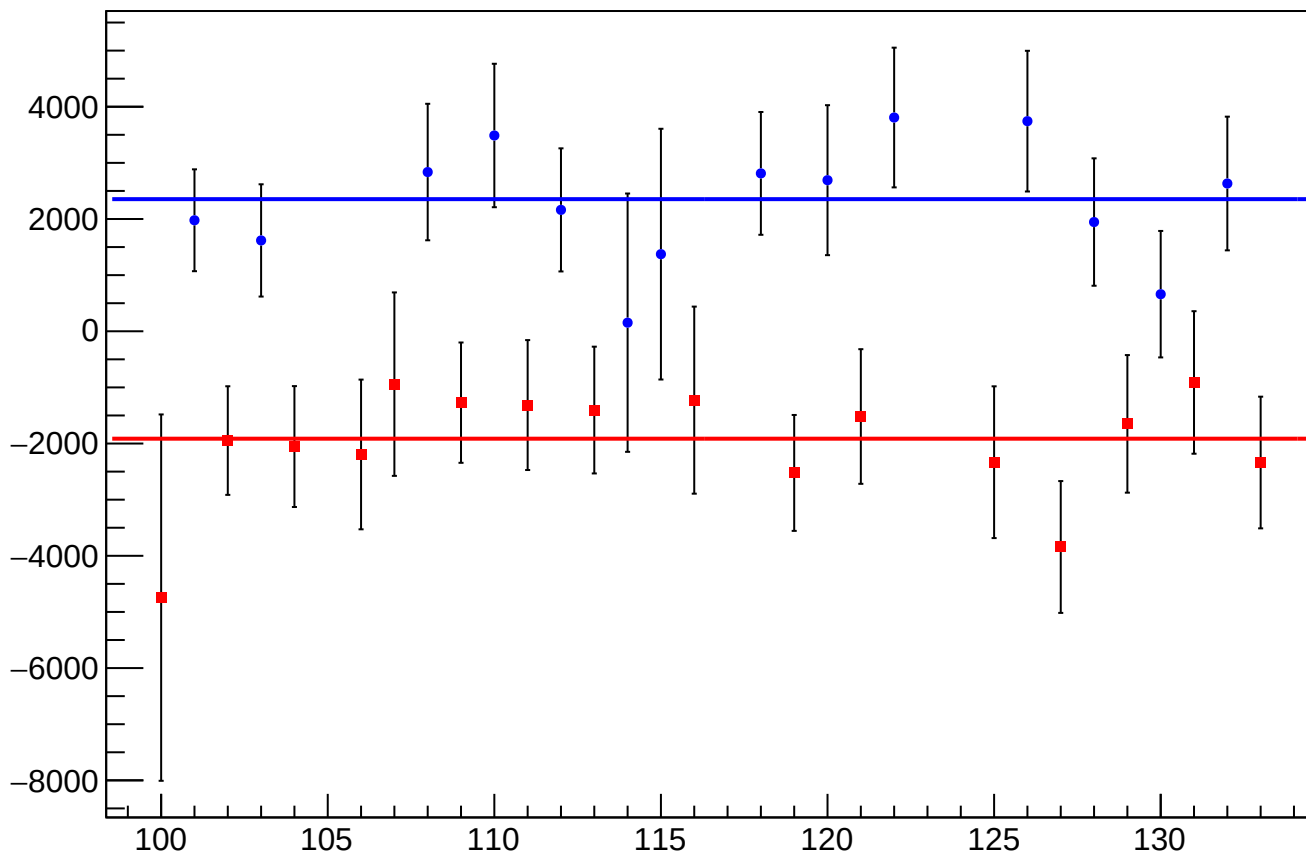
All: 1188.466+/-0.242  $\chi^2/\text{NDF}$ : 920120.1/29

- 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\_mean vs Slug



Right In: 2353.704 $\pm$ 321.533  $\chi^2$ /NDF: 8.1/13

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

Right Out: -1913.589 $\pm$ 306.537  $\chi^2$ /NDF: 6.2/15

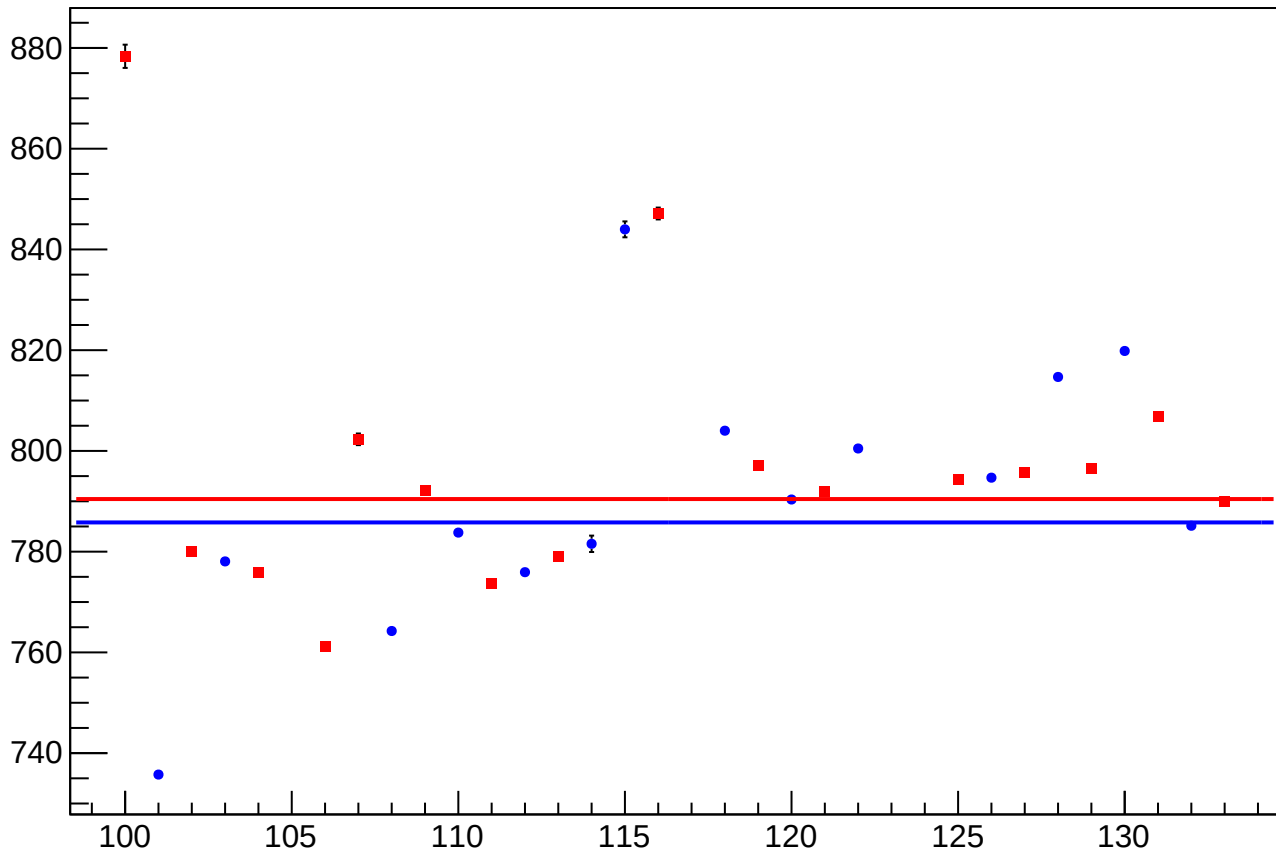
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 118.228 $\pm$ 221.866  $\chi^2$ /NDF: 106.6/29

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

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



Right In: 785.802 $\pm$ 0.227  $\chi^2$ /NDF: 12445.9/13

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

Right Out: 790.445 $\pm$ 0.217  $\chi^2$ /NDF: 6584.8/15

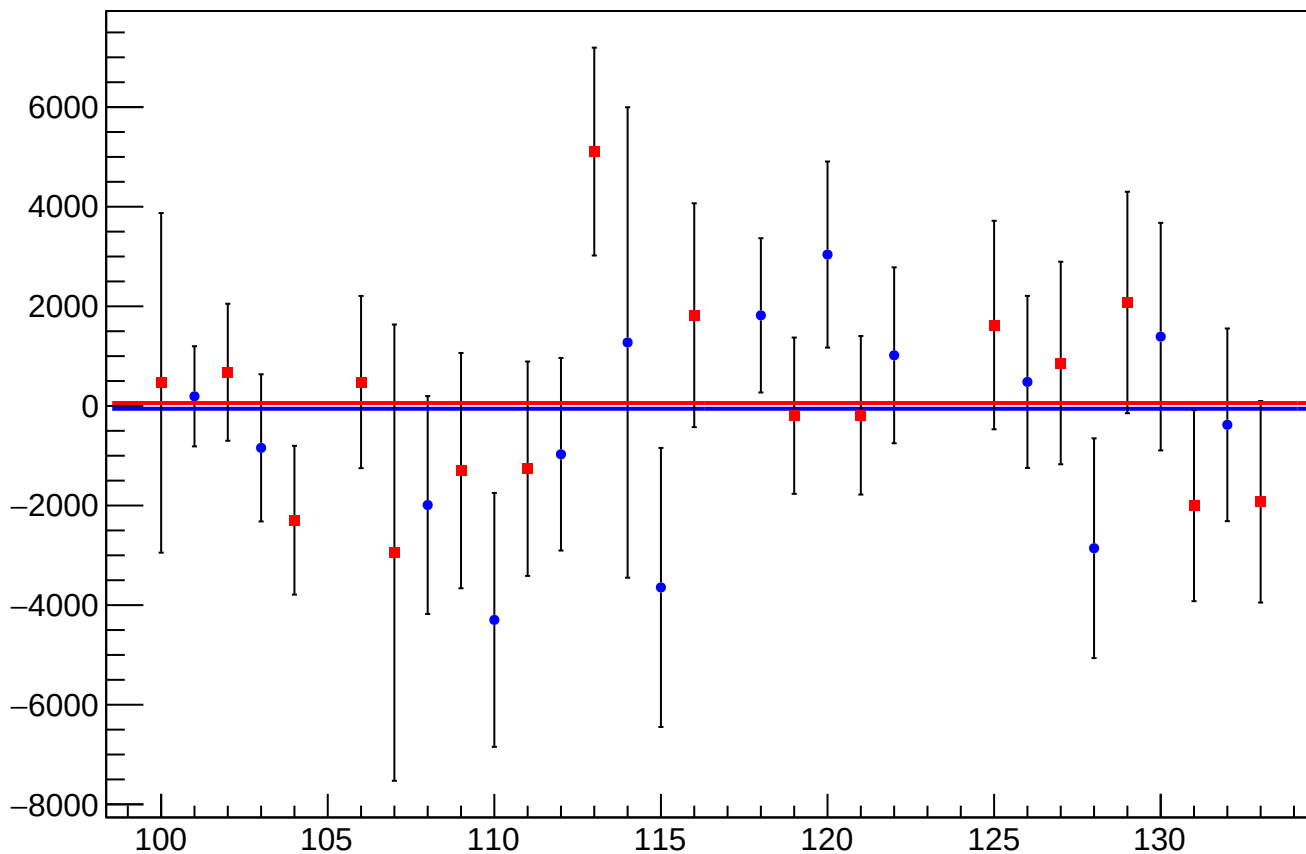
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 788.234 $\pm$ 0.157  $\chi^2$ /NDF: 19249.2/29

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

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



Right In: -57.015 $\pm$ 483.777  $\chi^2$ /NDF: 12.6/13

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

Right Out: 58.507 $\pm$ 484.696  $\chi^2$ /NDF: 14.1/15

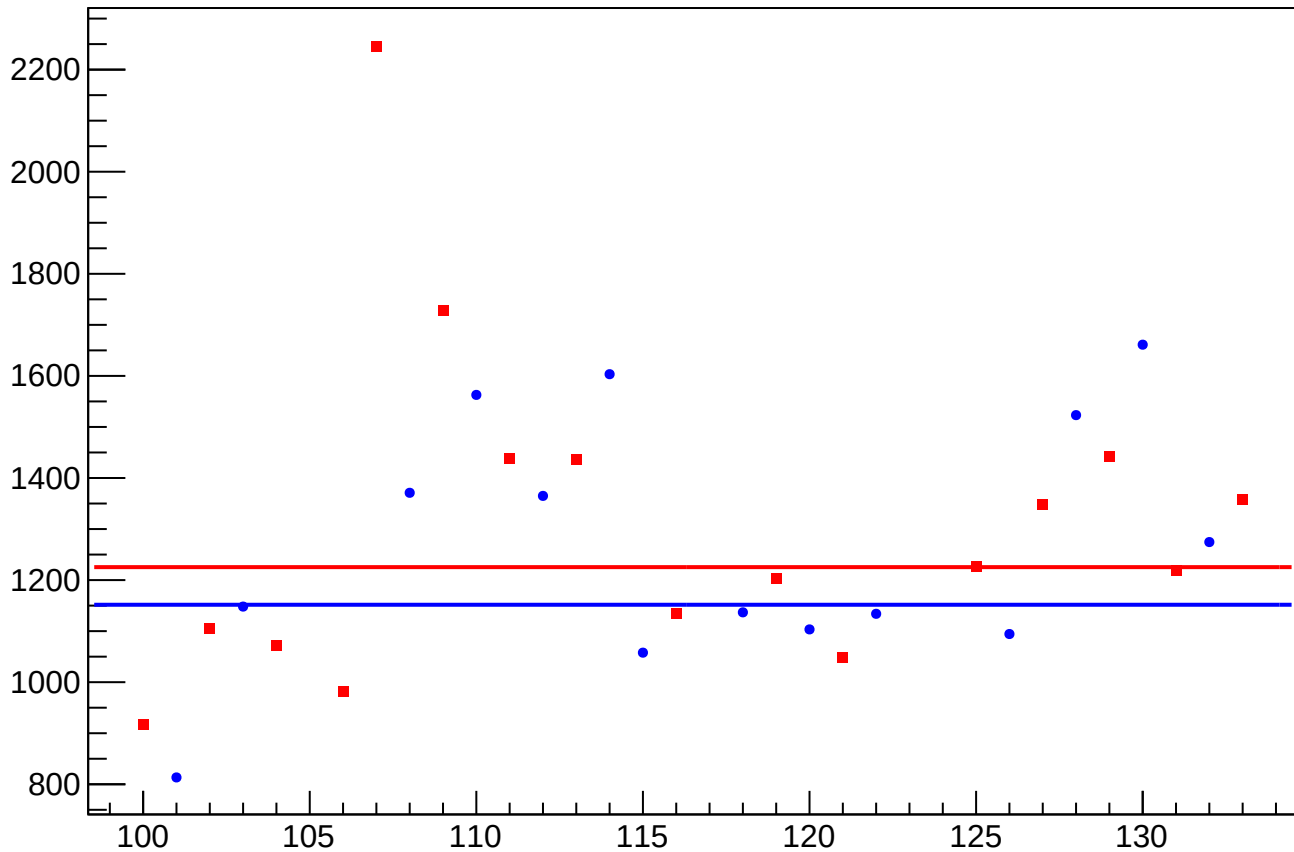
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.637 $\pm$ 342.406  $\chi^2$ /NDF: 26.7/29

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

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



Right In: 1151.680 $\pm$ 0.342  $\chi^2$ /NDF: 511503.5/13

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

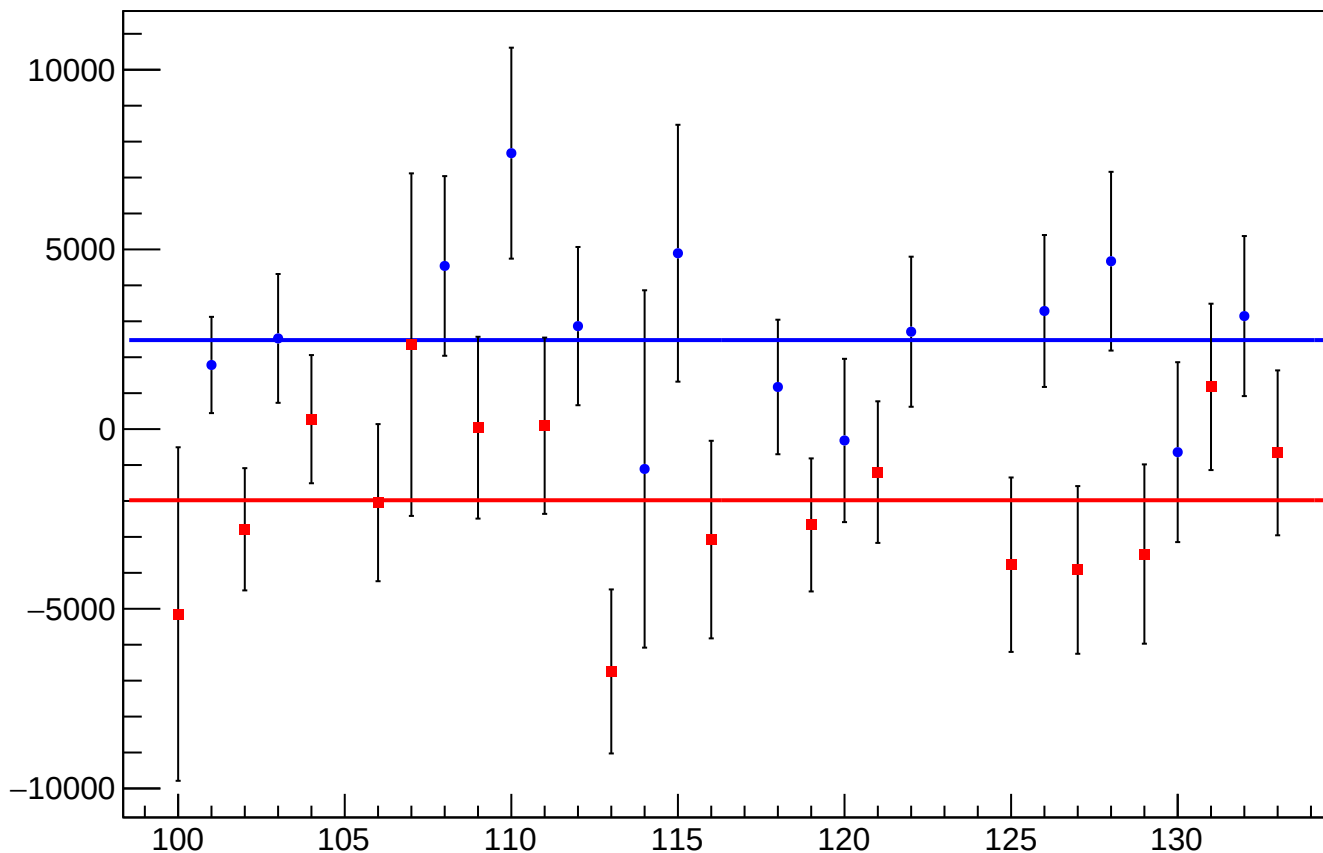
Right Out: 1225.386 $\pm$ 0.343  $\chi^2$ /NDF: 385441.6/15

All: 1188.463 $\pm$ 0.242  $\chi^2$ /NDF: 920113.1/29

- 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\_avg\_mean vs Slug



Right In: 2476.823+/-584.710  $\chi^2/\text{NDF}$ : 9.7/13

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

Right Out: -1979.792+/-572.930  $\chi^2/\text{NDF}$ : 13.1/15

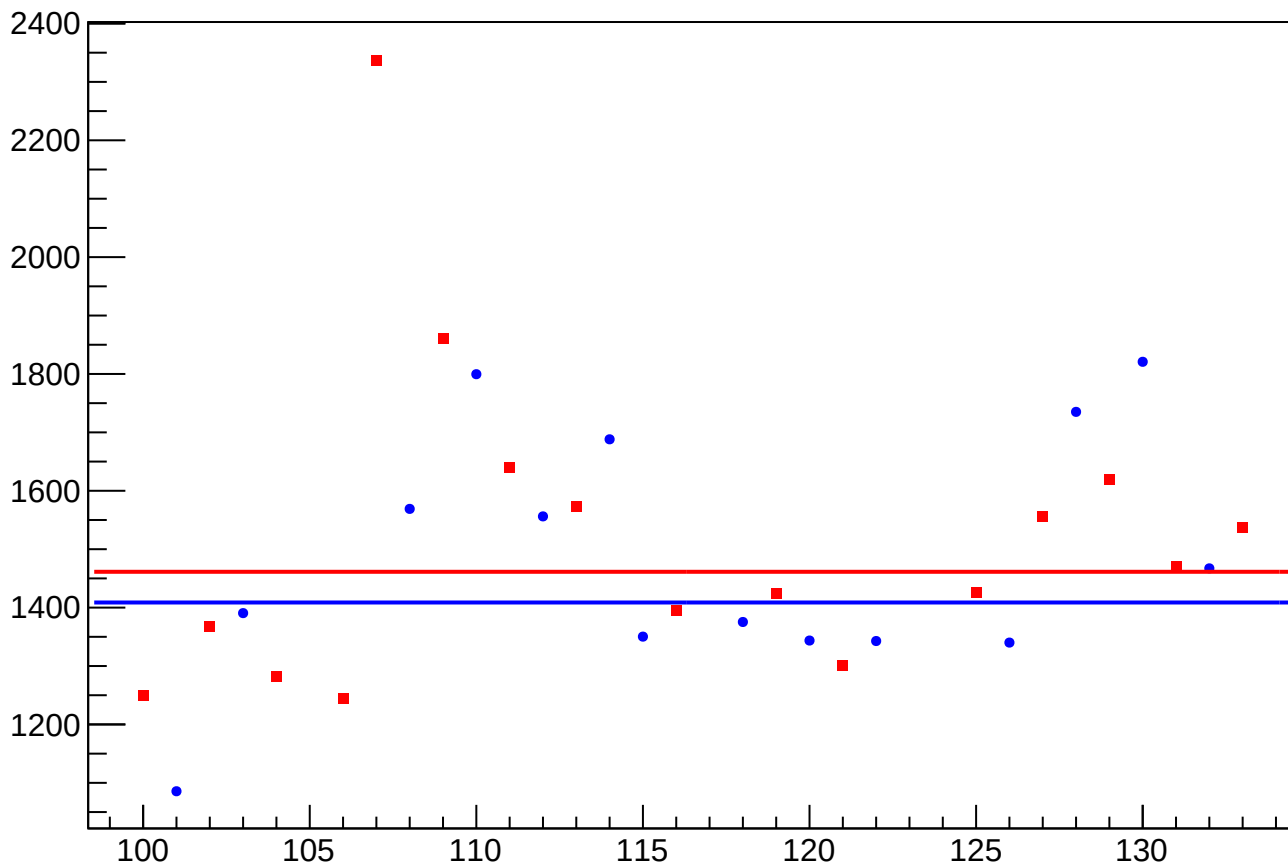
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 203.171+/-409.224  $\chi^2/\text{NDF}$ : 52.4/29

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

# asym\_us\_avg\_rms vs Slug



Right In: 1408.759+/-0.413  $\chi^2/\text{NDF}$ : 272513.1/13

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

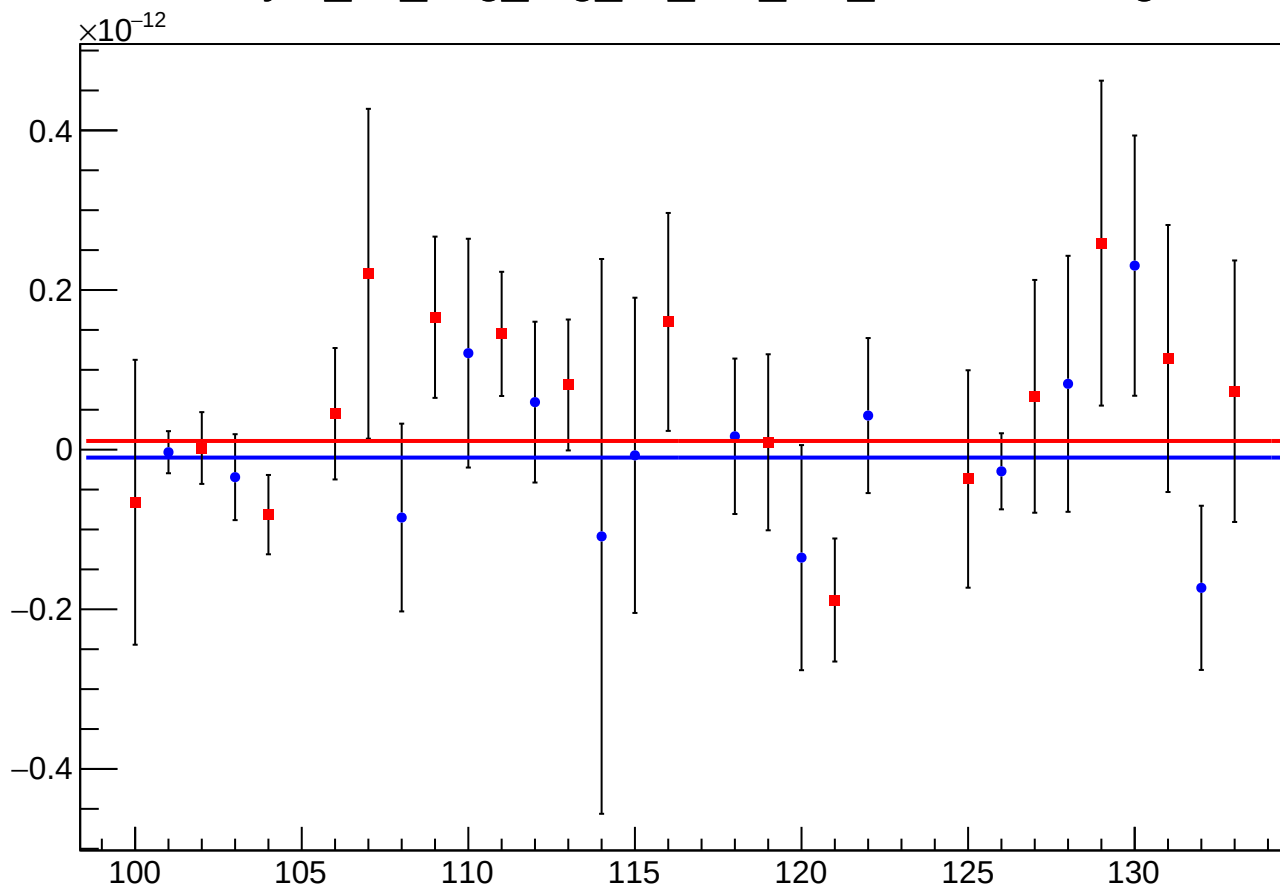
Right Out: 1461.324+/-0.405  $\chi^2/\text{NDF}$ : 212062.0/15

All: 1435.576+/-0.289  $\chi^2/\text{NDF}$ : 492821.5/29

- 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\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.4/13

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 21.1/15

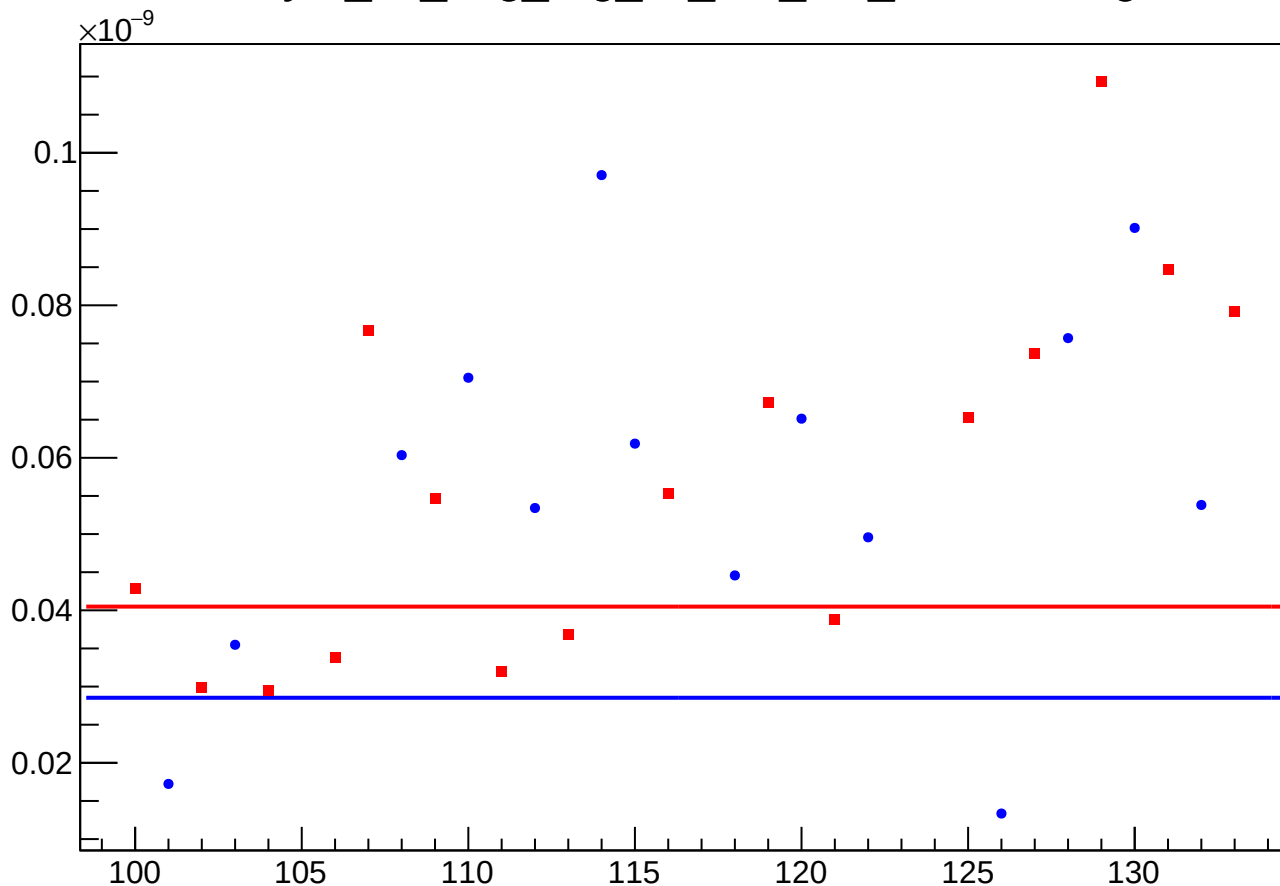
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 30.0/29

- 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  $\chi^2/\text{NDF}$ : 2040475.2/13

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1142358.0/15

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

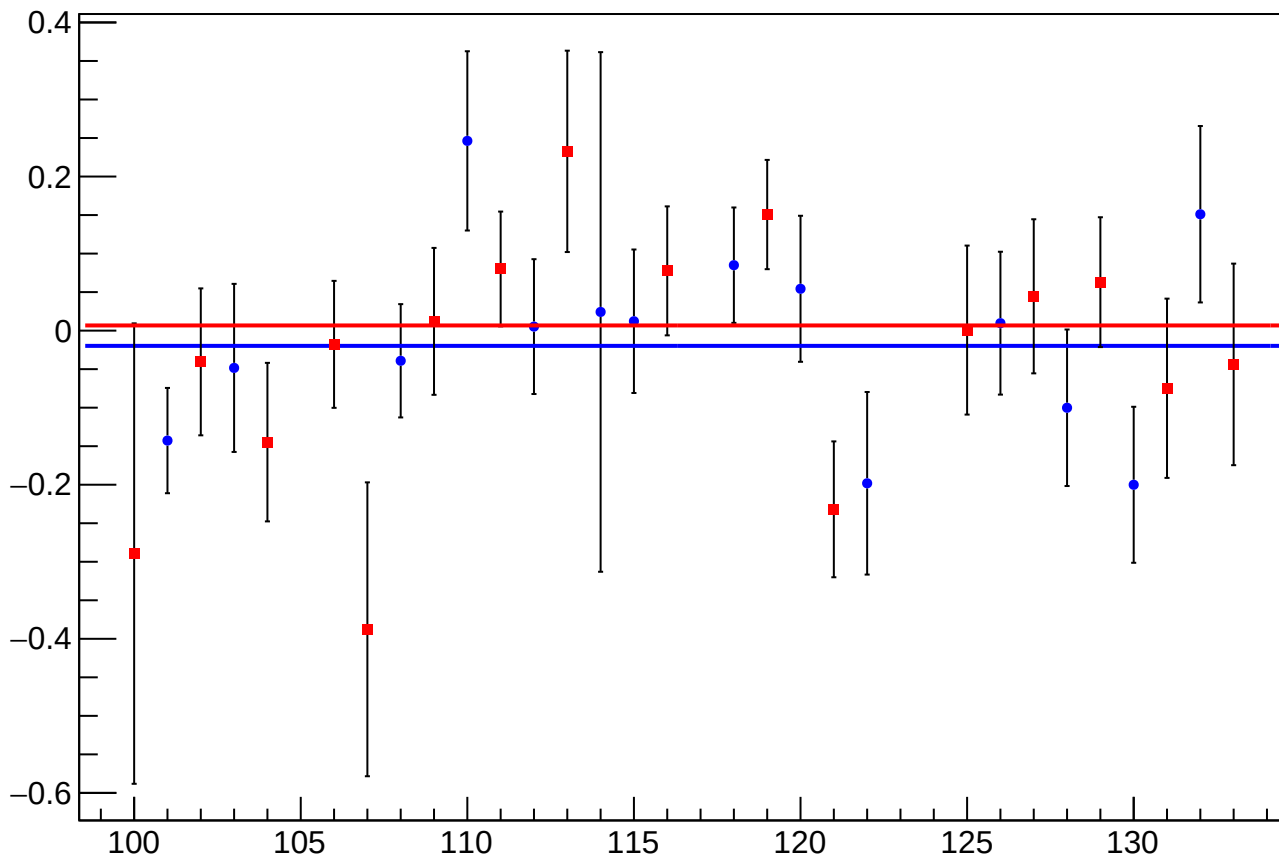
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3523157.9/29

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



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



Right In: -0.020+/-0.025  $\chi^2/\text{NDF}$ : 19.8/13

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

Right Out: 0.007+/-0.025  $\chi^2/\text{NDF}$ : 25.1/15

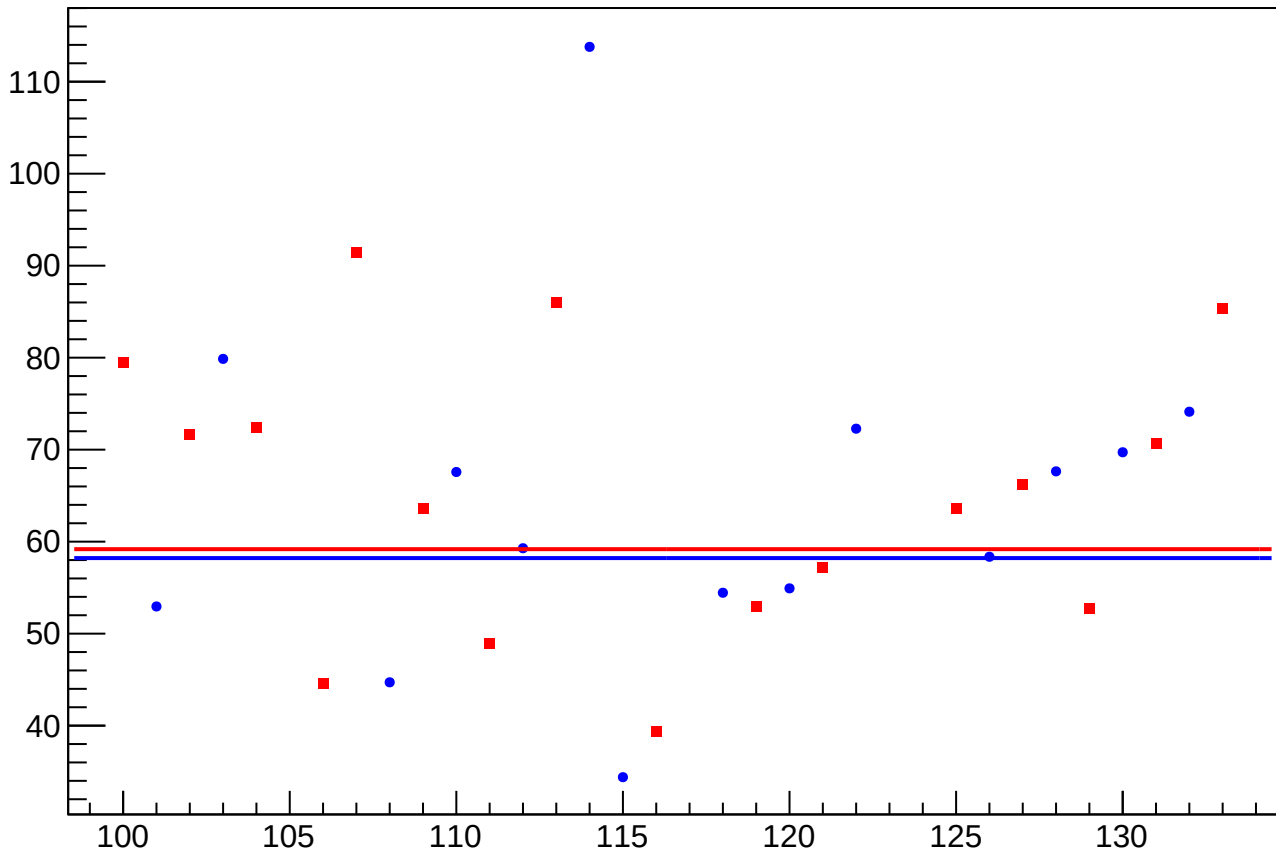
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.006+/-0.018  $\chi^2/\text{NDF}$ : 45.5/29

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

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



Right In: 58.214+/-0.018  $\chi^2/\text{NDF}$ : 473853.4/13

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

Right Out: 59.184+/-0.017  $\chi^2/\text{NDF}$ : 575439.3/15

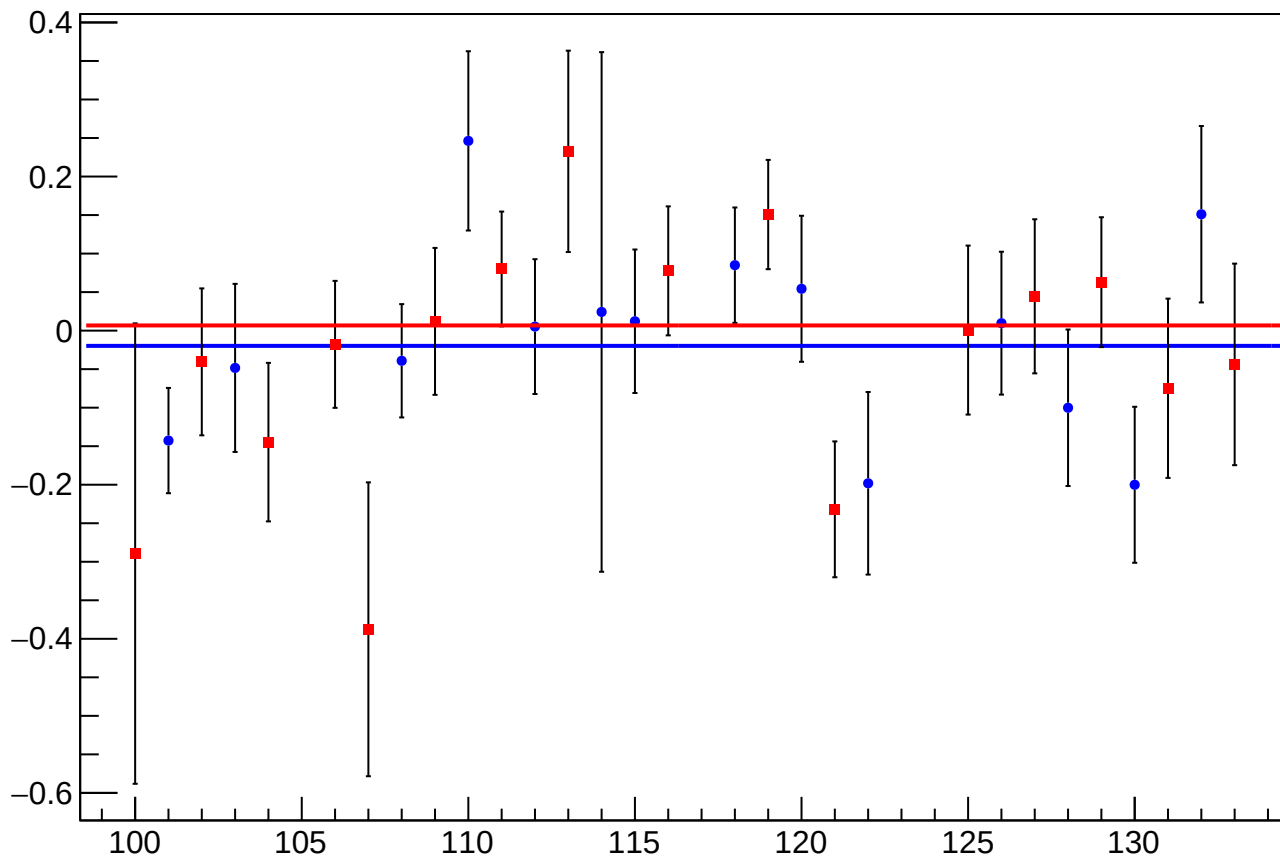
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 58.715+/-0.012  $\chi^2/\text{NDF}$ : 1050809.2/29

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

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



Right In: -0.020+/-0.025  $\chi^2$ /NDF: 19.8/13

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

Right Out: 0.007+/-0.025  $\chi^2$ /NDF: 25.1/15

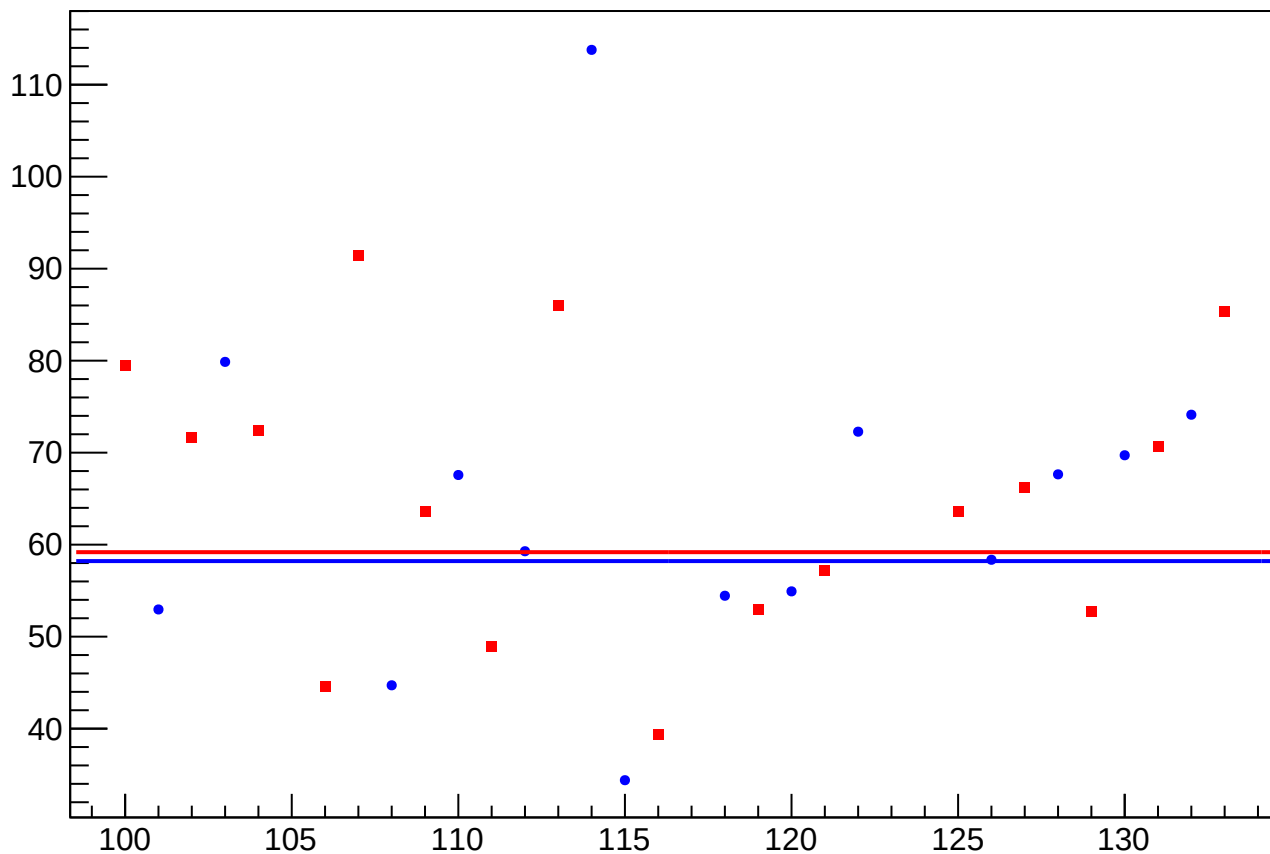
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.006+/-0.018  $\chi^2$ /NDF: 45.5/29

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

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



Right In: 58.214+/-0.018  $\chi^2/\text{NDF}$ : 473853.4/13

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

Right Out: 59.184+/-0.017  $\chi^2/\text{NDF}$ : 575439.3/15

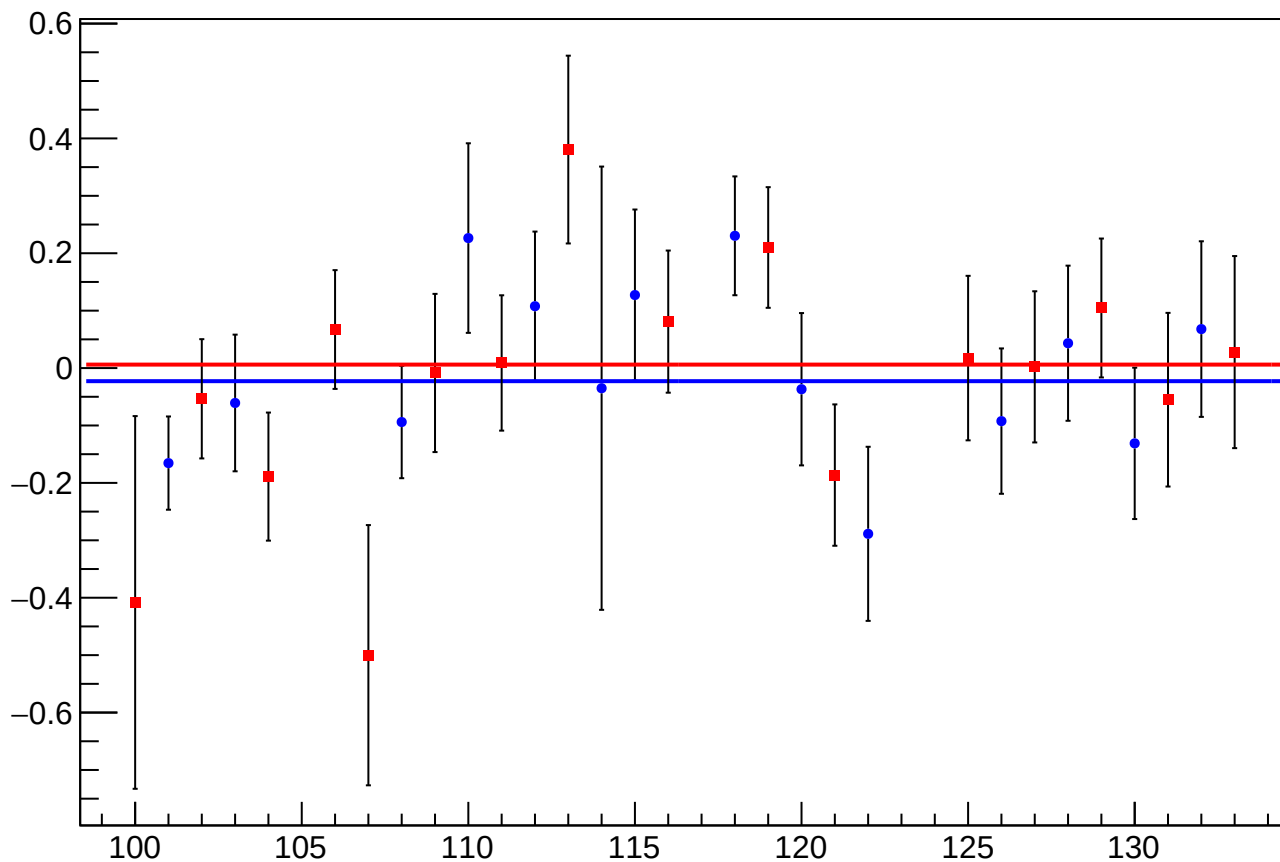
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 58.715+/-0.012  $\chi^2/\text{NDF}$ : 1050809.2/29

- 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: -0.023+/-0.034  $\chi^2/\text{NDF}$ : 18.7/13

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

Right Out: 0.006+/-0.033  $\chi^2/\text{NDF}$ : 23.0/15

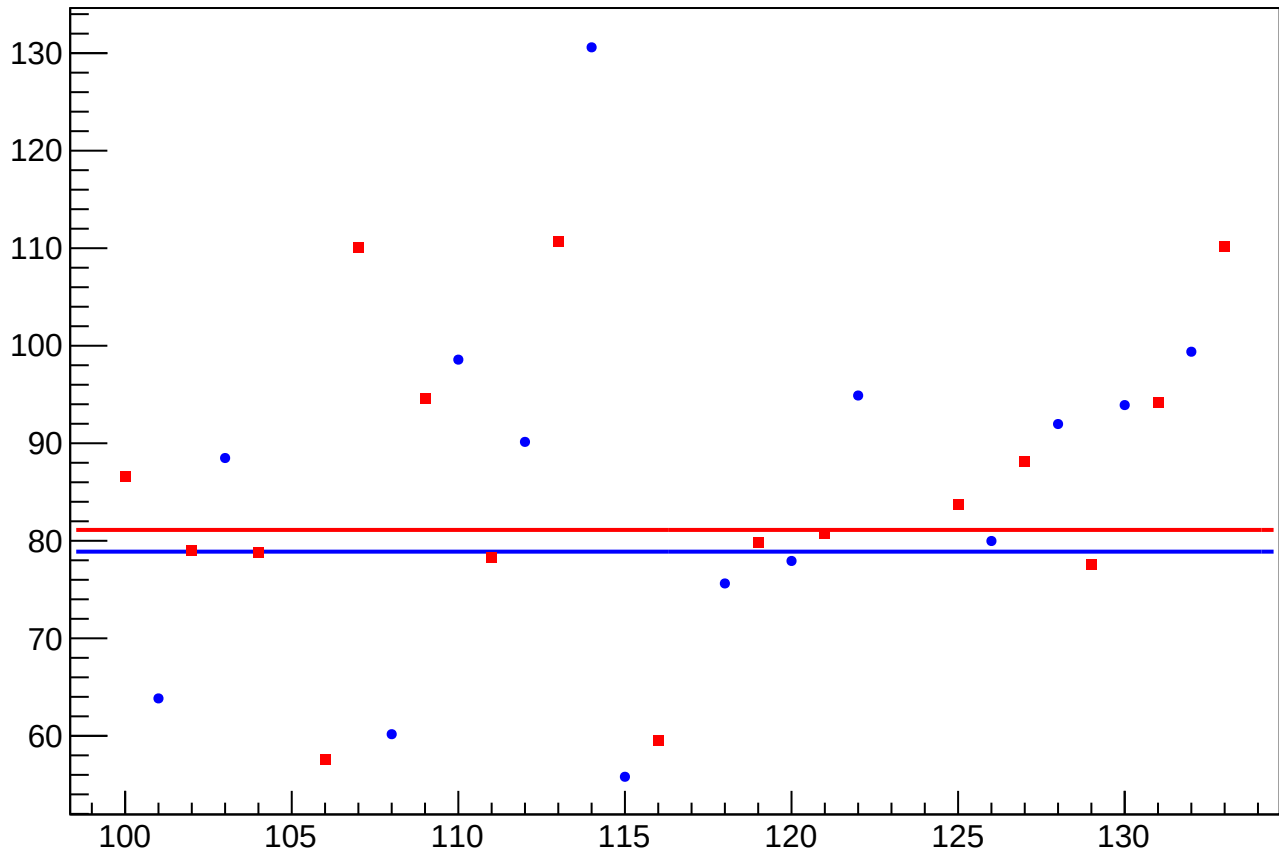
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.008+/-0.023  $\chi^2/\text{NDF}$ : 42.1/29

- 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: 78.887 $\pm$ 0.024  $\chi^2$ /NDF: 387474.9/13

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

Right Out: 81.114 $\pm$ 0.023  $\chi^2$ /NDF: 368570.9/15

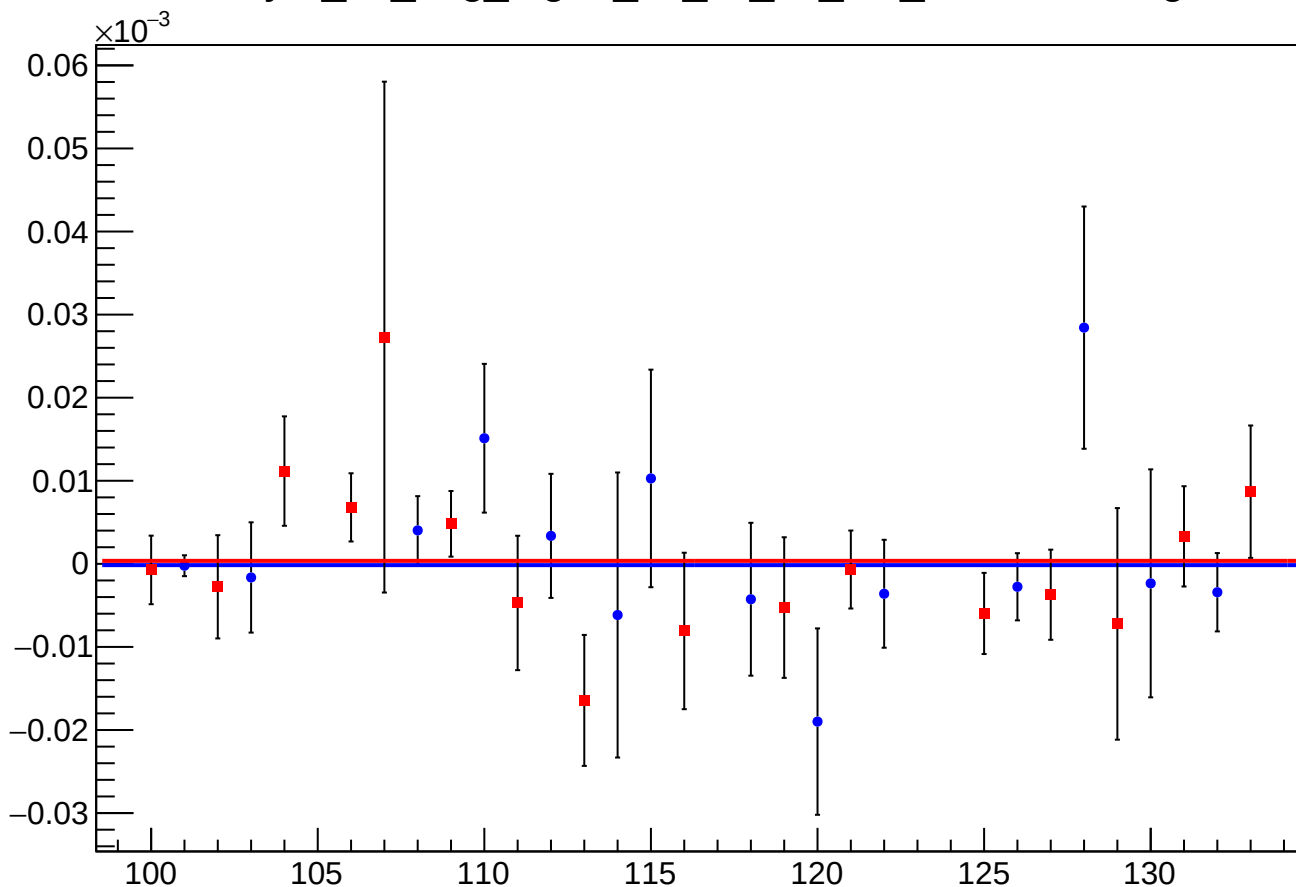
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 80.030 $\pm$ 0.017  $\chi^2$ /NDF: 760555.6/29

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

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



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.0/13

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

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.6/15

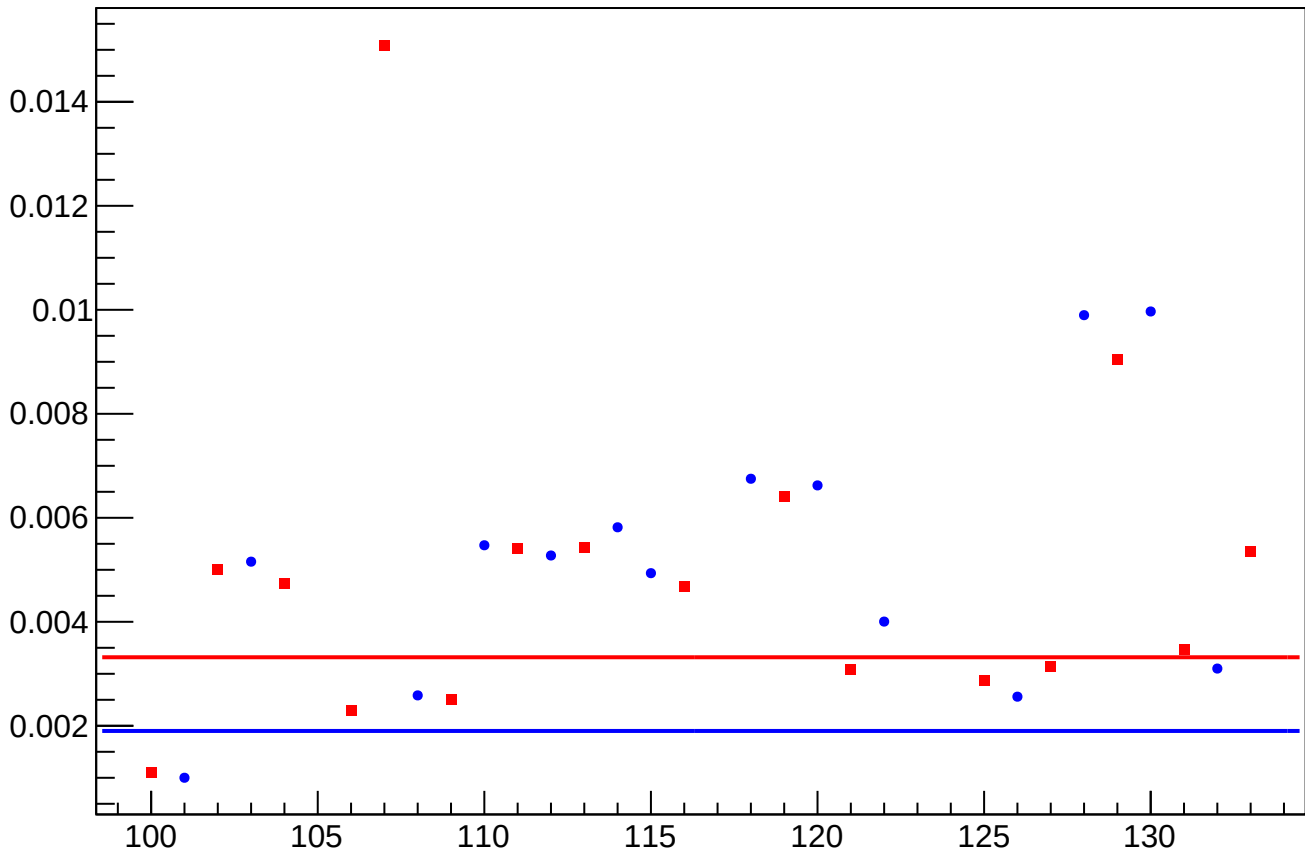
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 30.7/29

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

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



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 5095208.3/13

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

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2391539.1/15

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

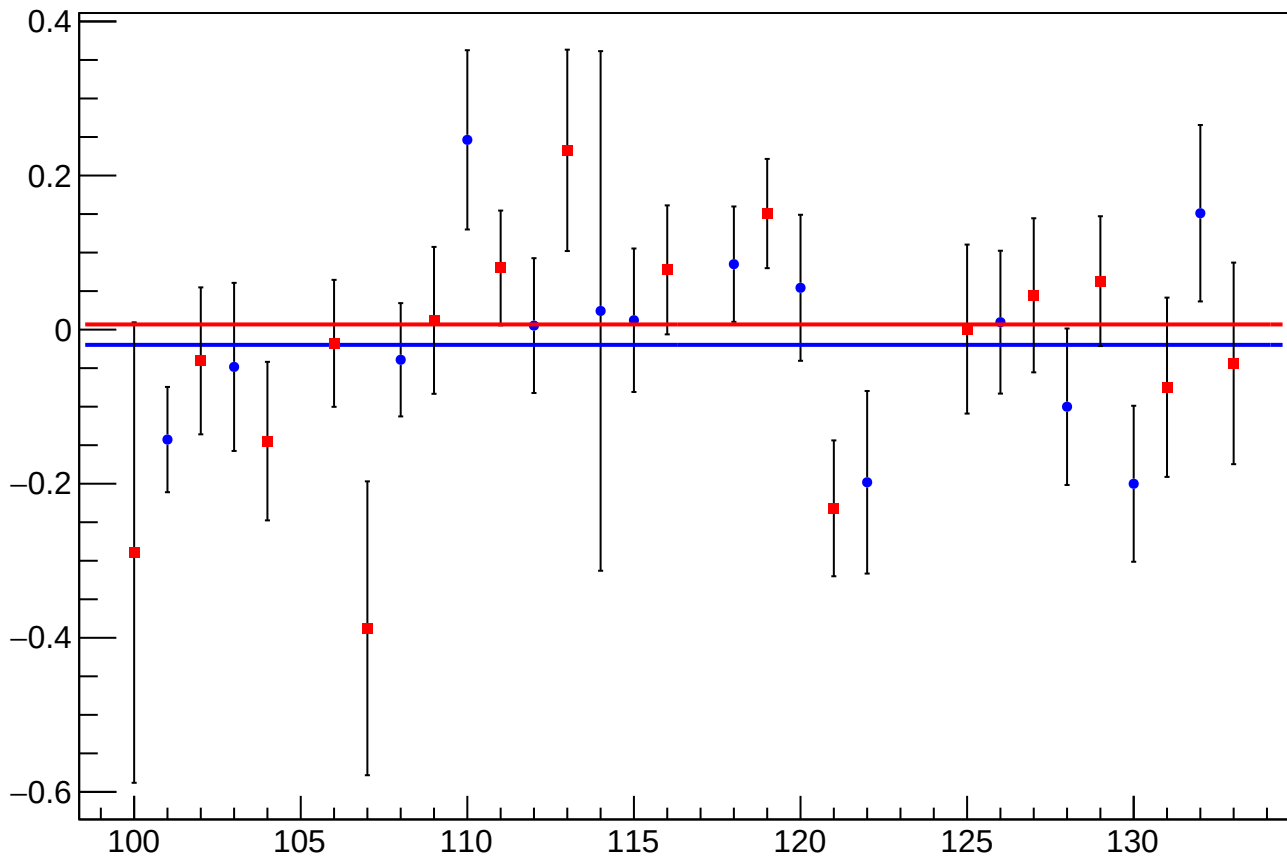
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 8712965.2/29

- 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: -0.020+/-0.025  $\chi^2$ /NDF: 19.8/13

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

Right Out: 0.007+/-0.025  $\chi^2$ /NDF: 25.1/15

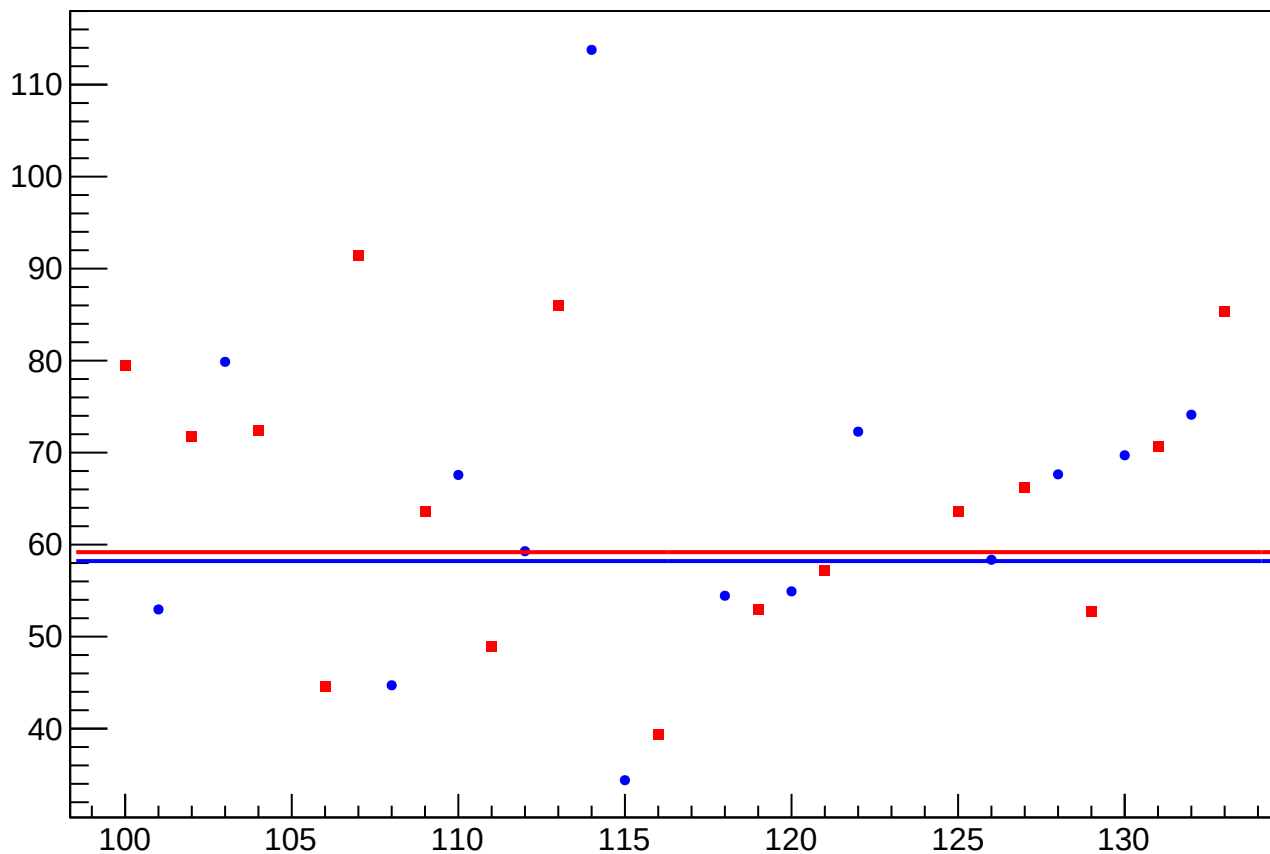
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.006+/-0.018  $\chi^2$ /NDF: 45.5/29

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

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



Right In: 58.212 $\pm$ 0.018  $\chi^2$ /NDF: 473848.8/13

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

Right Out: 59.182 $\pm$ 0.017  $\chi^2$ /NDF: 575457.1/15

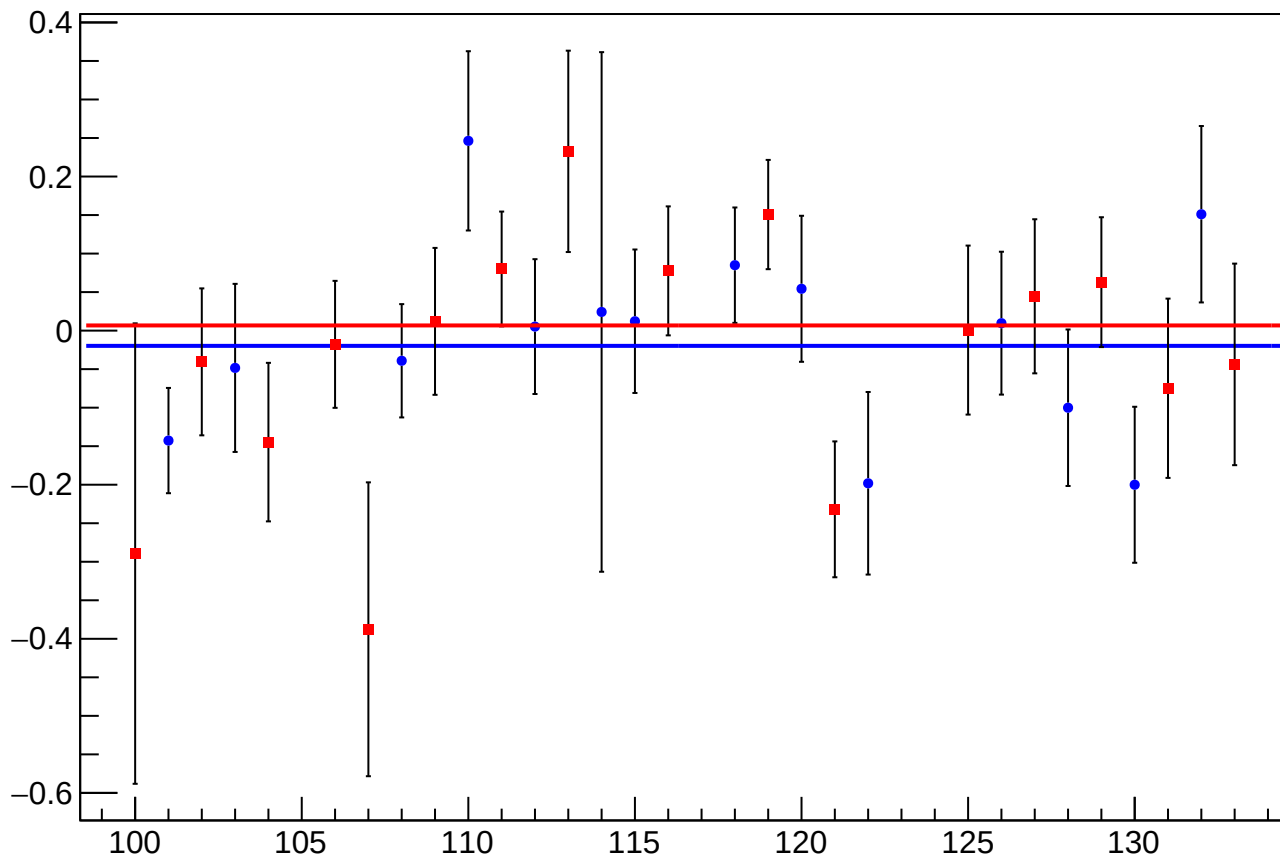
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 58.713 $\pm$ 0.012  $\chi^2$ /NDF: 1050821.8/29

- 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: -0.020+/-0.025  $\chi^2$ /NDF: 19.8/13

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

Right Out: 0.007+/-0.025  $\chi^2$ /NDF: 25.1/15

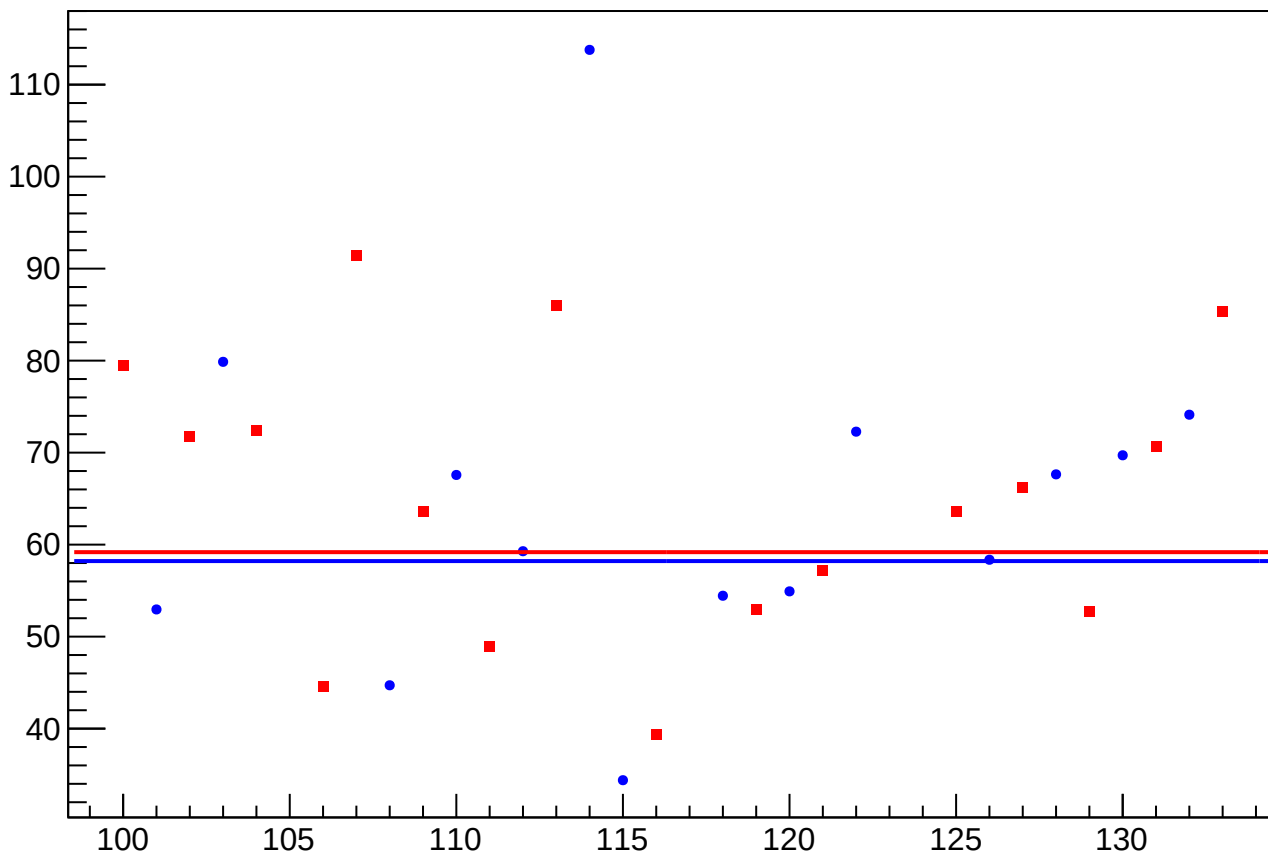
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.006+/-0.018  $\chi^2$ /NDF: 45.5/29

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

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



Right In: 58.212+/-0.018  $\chi^2/\text{NDF}$ : 473848.8/13

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

Right Out: 59.182+/-0.017  $\chi^2/\text{NDF}$ : 575457.1/15

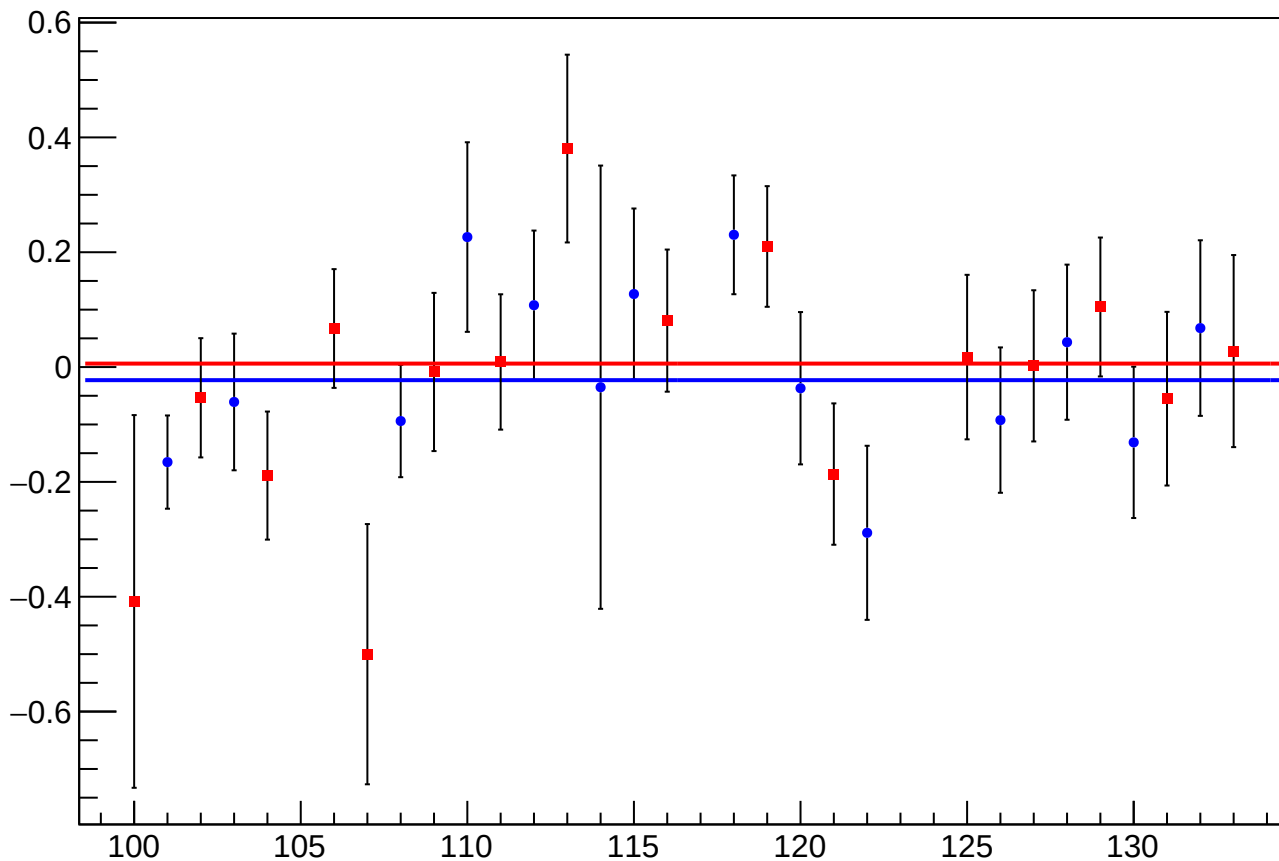
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 58.713+/-0.012  $\chi^2/\text{NDF}$ : 1050821.8/29

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

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



Right In: -0.023+/-0.034  $\chi^2/\text{NDF}$ : 18.7/13

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

Right Out: 0.006+/-0.033  $\chi^2/\text{NDF}$ : 23.0/15

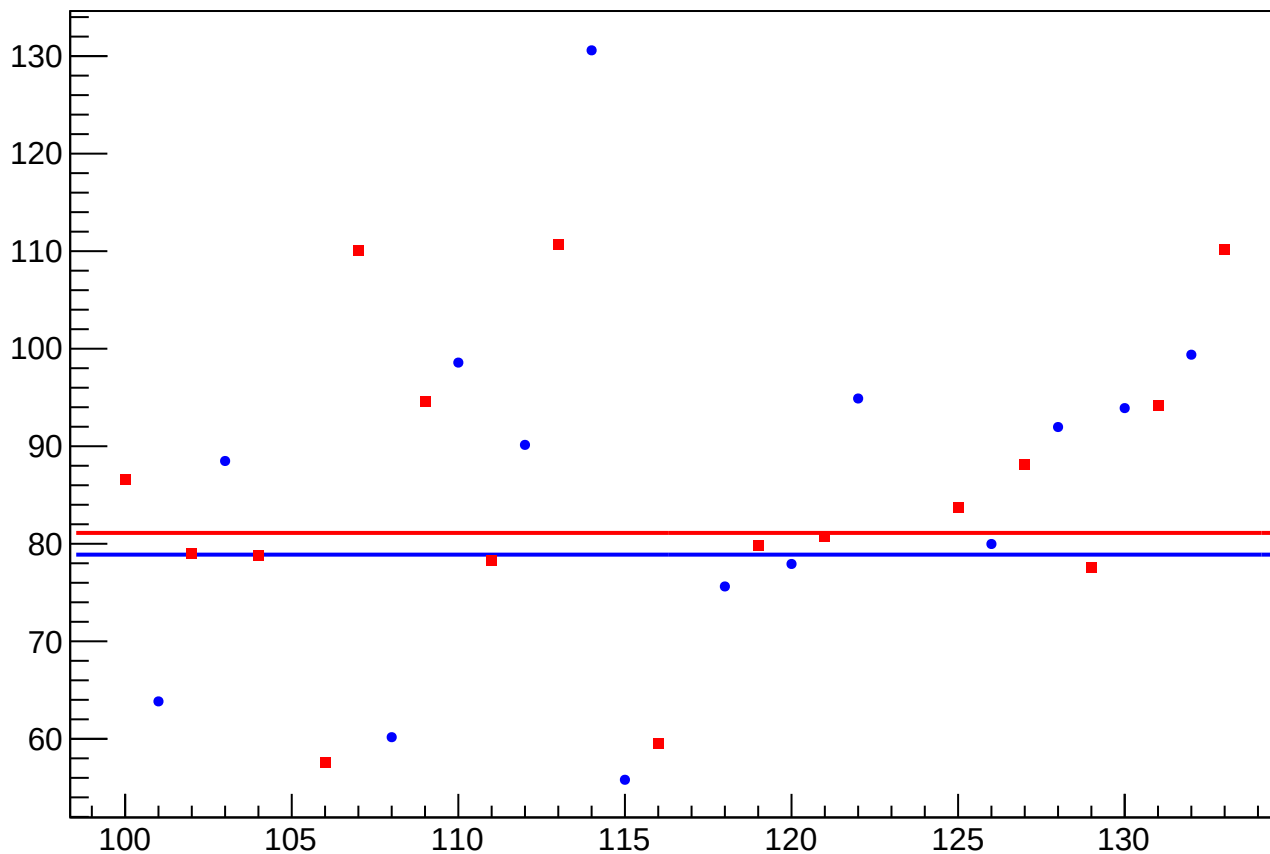
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.008+/-0.023  $\chi^2/\text{NDF}$ : 42.1/29

- 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: 78.886+/-0.024  $\chi^2/\text{NDF}$ : 387454.8/13

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

Right Out: 81.113+/-0.023  $\chi^2/\text{NDF}$ : 368563.0/15

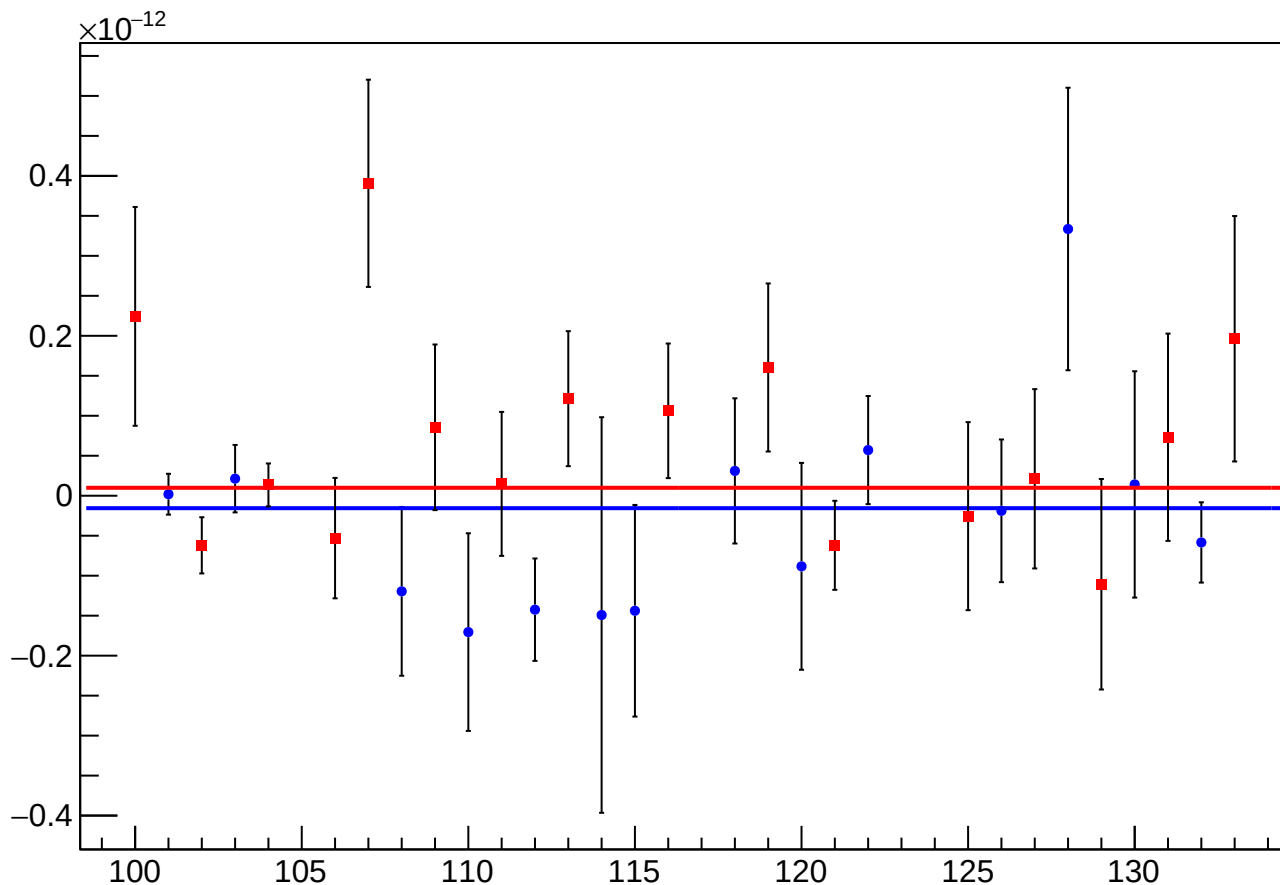
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 80.029+/-0.017  $\chi^2/\text{NDF}$ : 760527.0/29

- 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  $\chi^2/\text{NDF}$ : 15.4/13

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 26.0/15

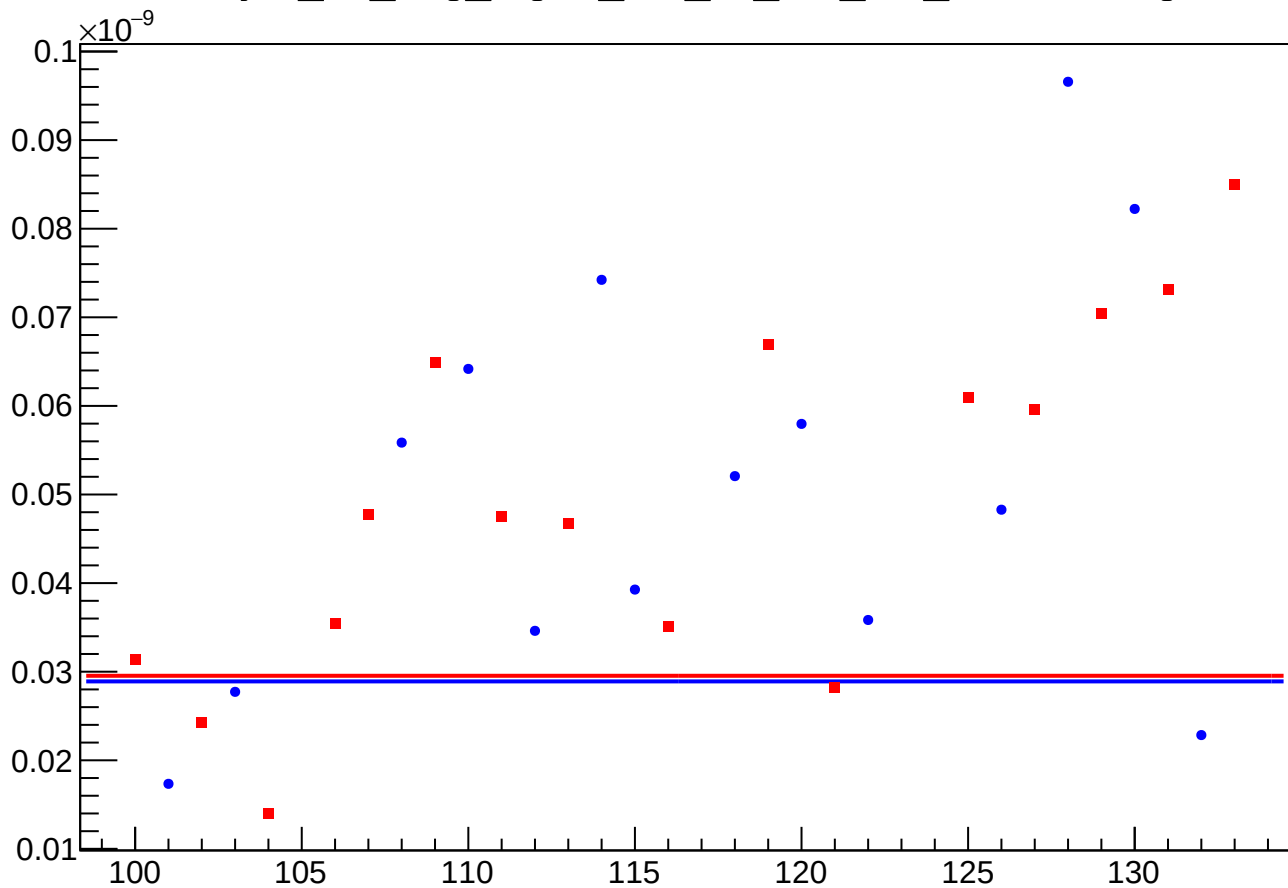
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 42.5/29

- 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  $\chi^2/\text{NDF}$ : 1753073.2/13

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2394307.7/15

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

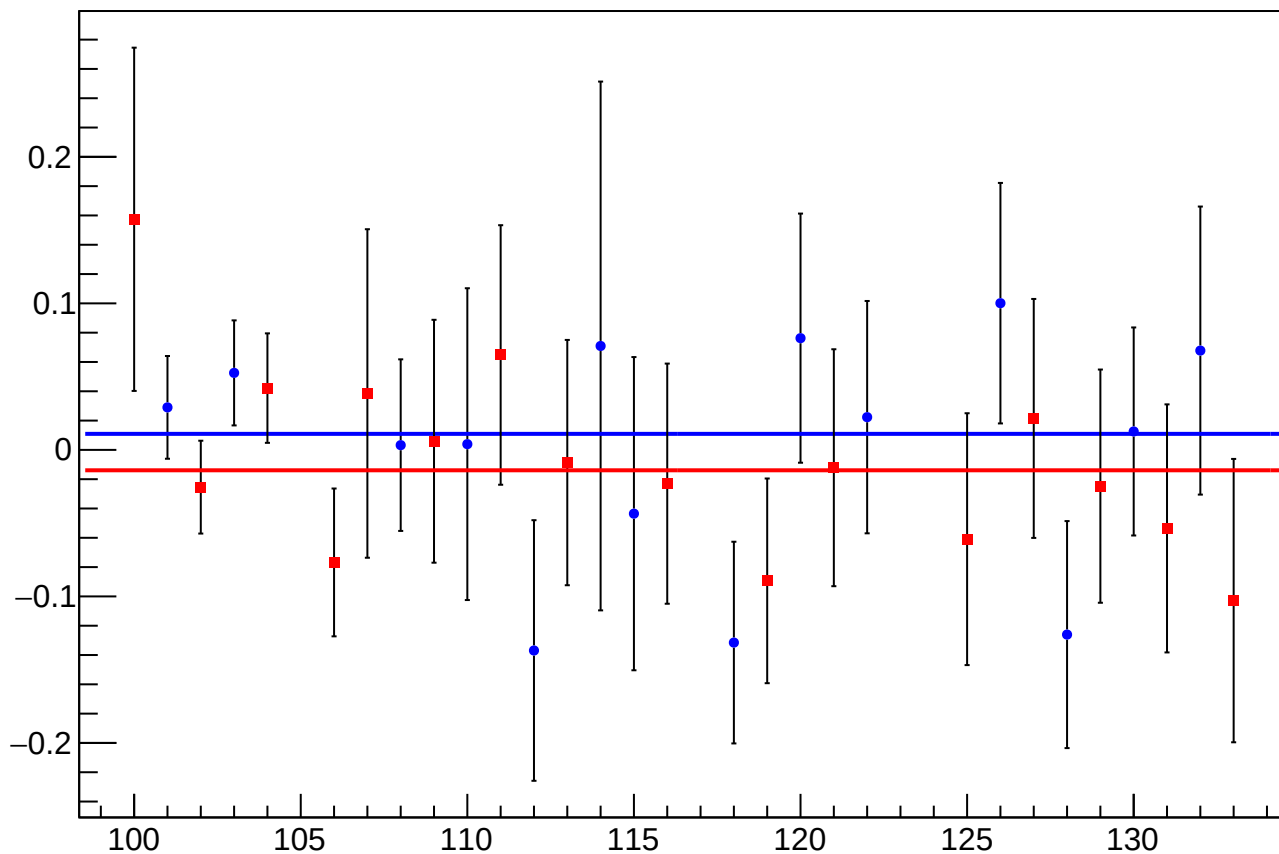
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4148848.2/29

- 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: 0.011 $\pm$ 0.017  $\chi^2$ /NDF: 14.3/13

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

Right Out: -0.014 $\pm$ 0.016  $\chi^2$ /NDF: 9.9/15

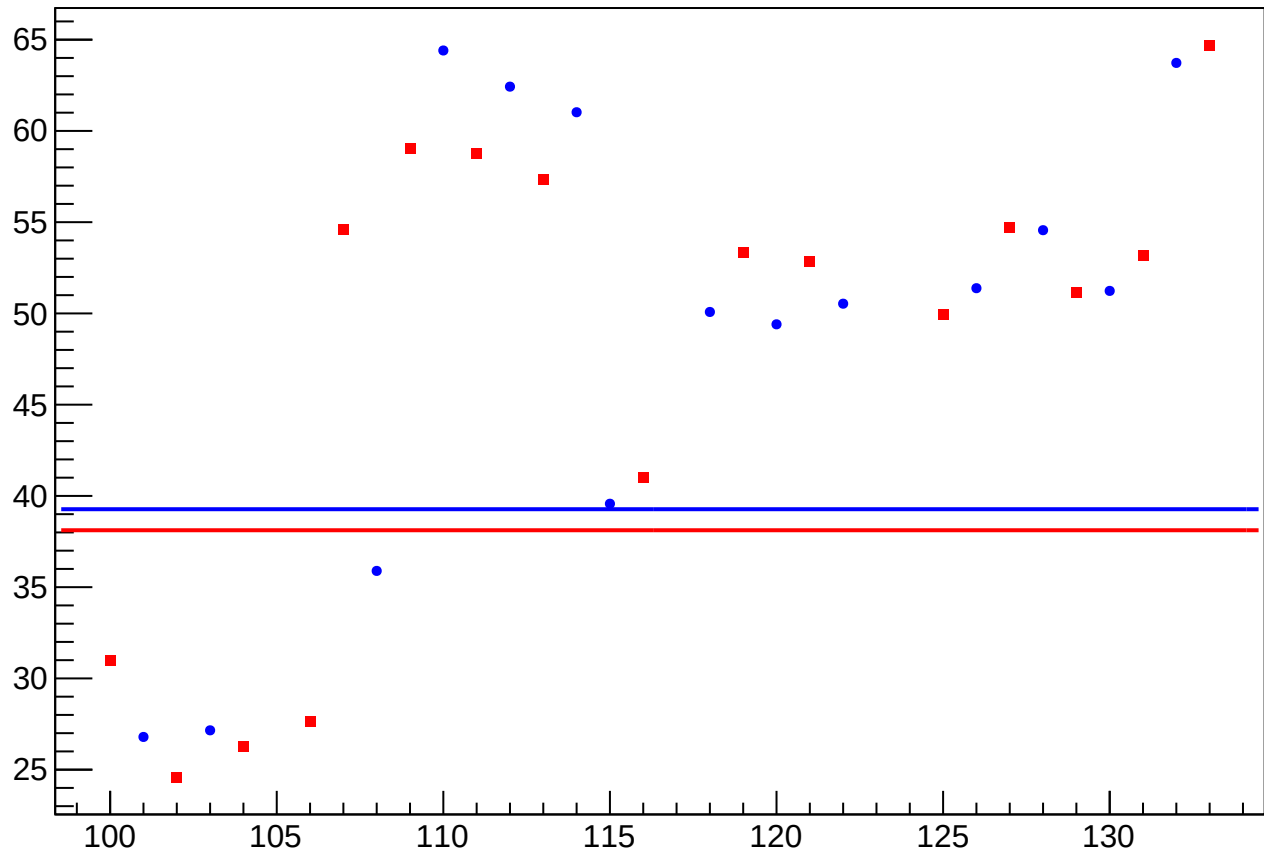
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.002 $\pm$ 0.012  $\chi^2$ /NDF: 25.3/29

- 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: 39.272+/-0.012  $\chi^2/\text{NDF}$ : 1184954.8/13

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

Right Out: 38.119+/-0.011  $\chi^2/\text{NDF}$ : 1596739.9/15

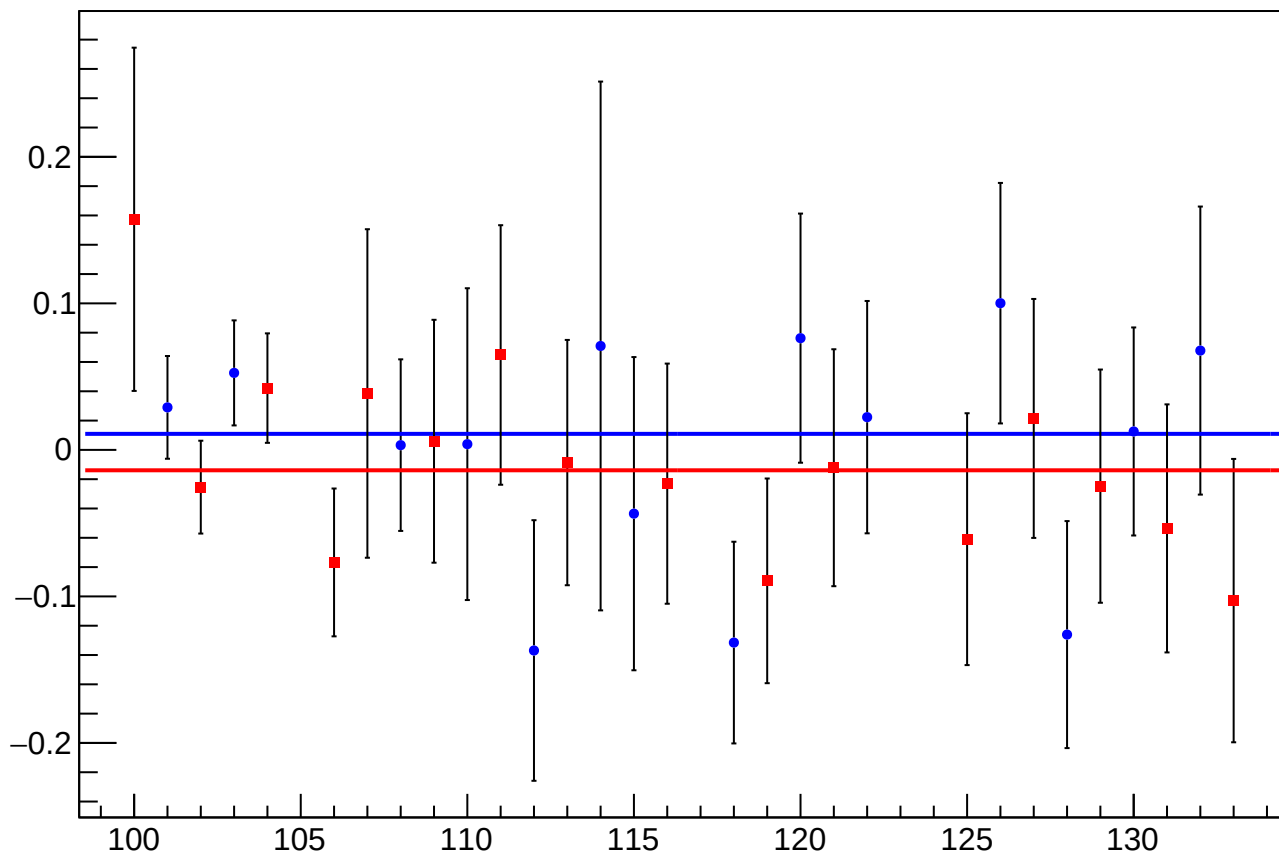
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 38.653+/-0.008  $\chi^2/\text{NDF}$ : 2786459.2/29

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

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



Right In: 0.011 $\pm$ 0.017  $\chi^2$ /NDF: 14.3/13

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

Right Out: -0.014 $\pm$ 0.016  $\chi^2$ /NDF: 9.9/15

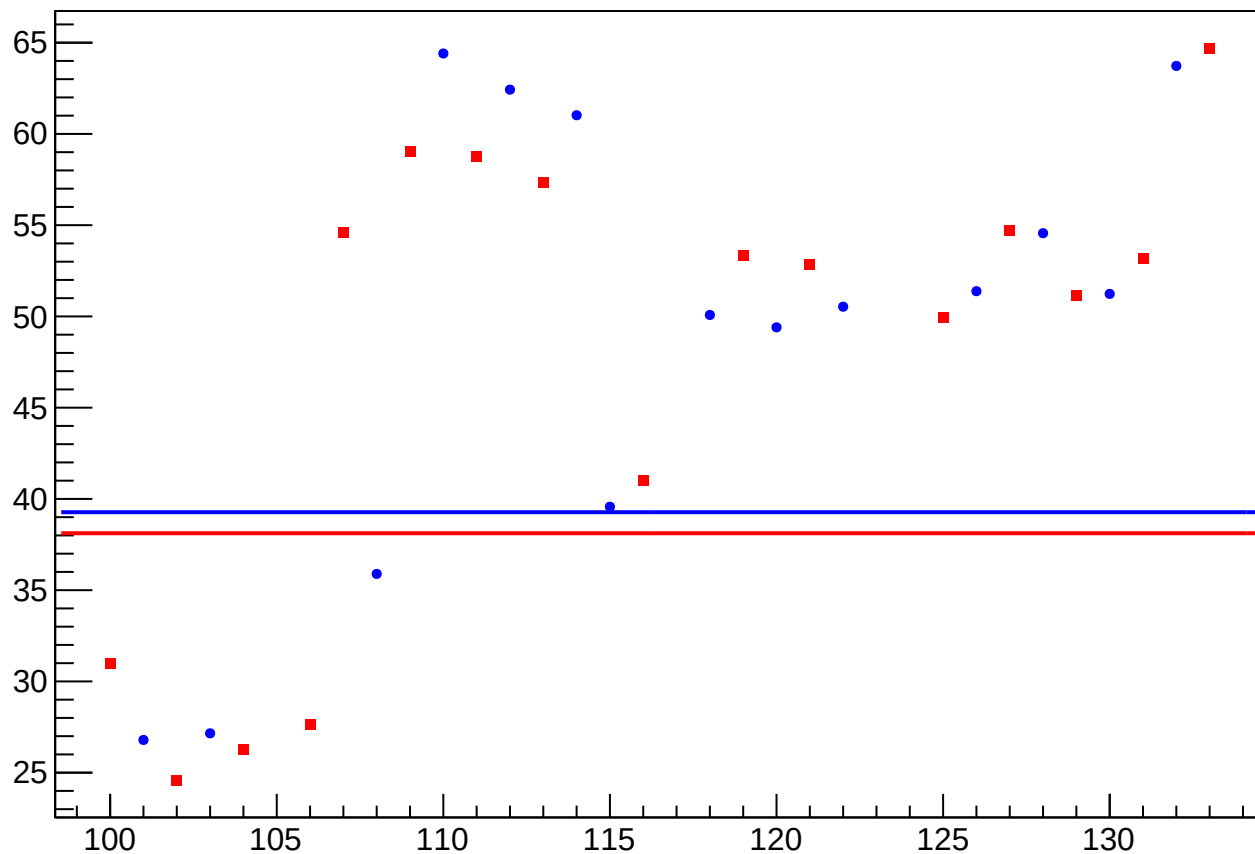
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.002 $\pm$ 0.012  $\chi^2$ /NDF: 25.3/29

- 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: 39.272+/-0.012  $\chi^2/\text{NDF}$ : 1184954.8/13

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

Right Out: 38.119+/-0.011  $\chi^2/\text{NDF}$ : 1596739.9/15

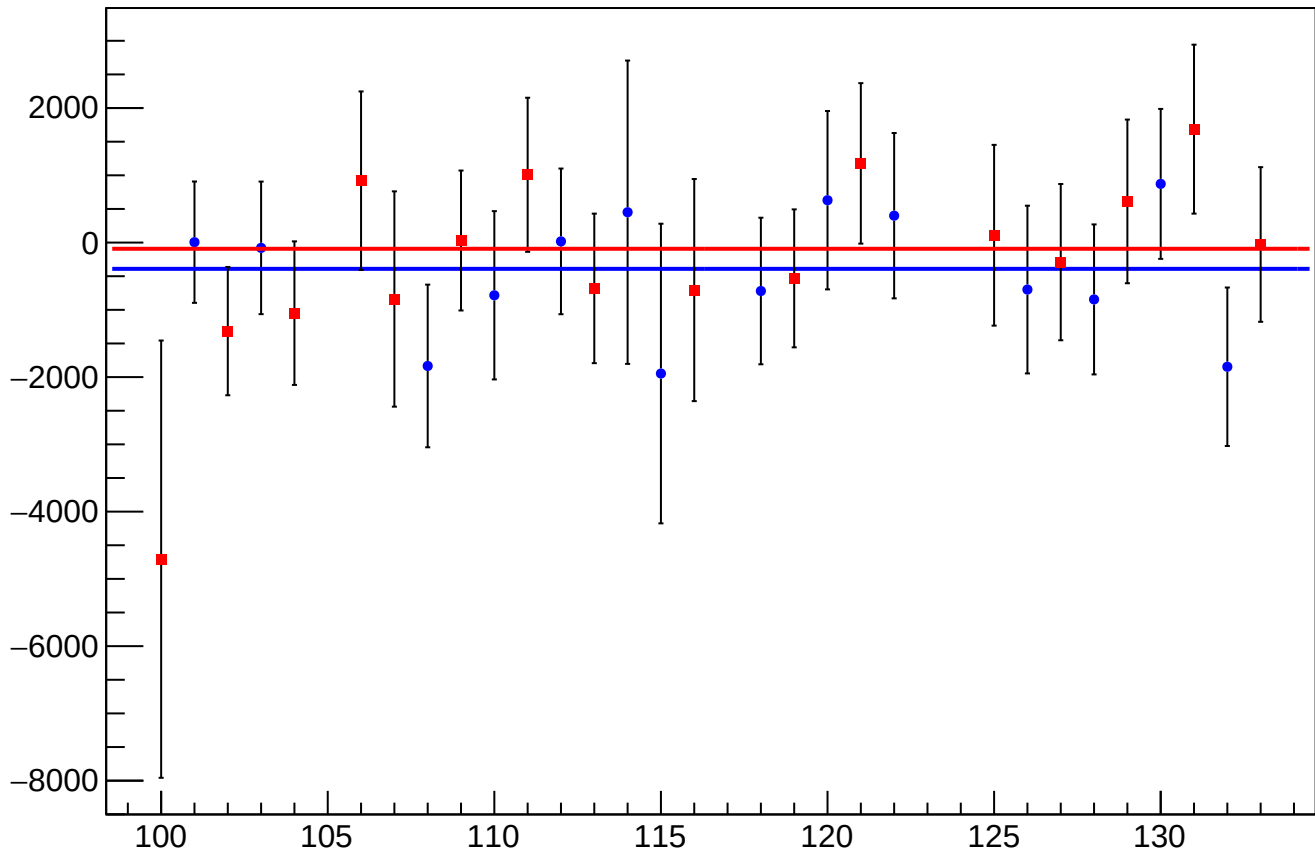
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 38.653+/-0.008  $\chi^2/\text{NDF}$ : 2786459.2/29

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

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



Right In: -390.518+/-318.164  $\chi^2/\text{NDF}$ : 6.7/13

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

Right Out: -92.144+/-302.780  $\chi^2/\text{NDF}$ : 10.3/15

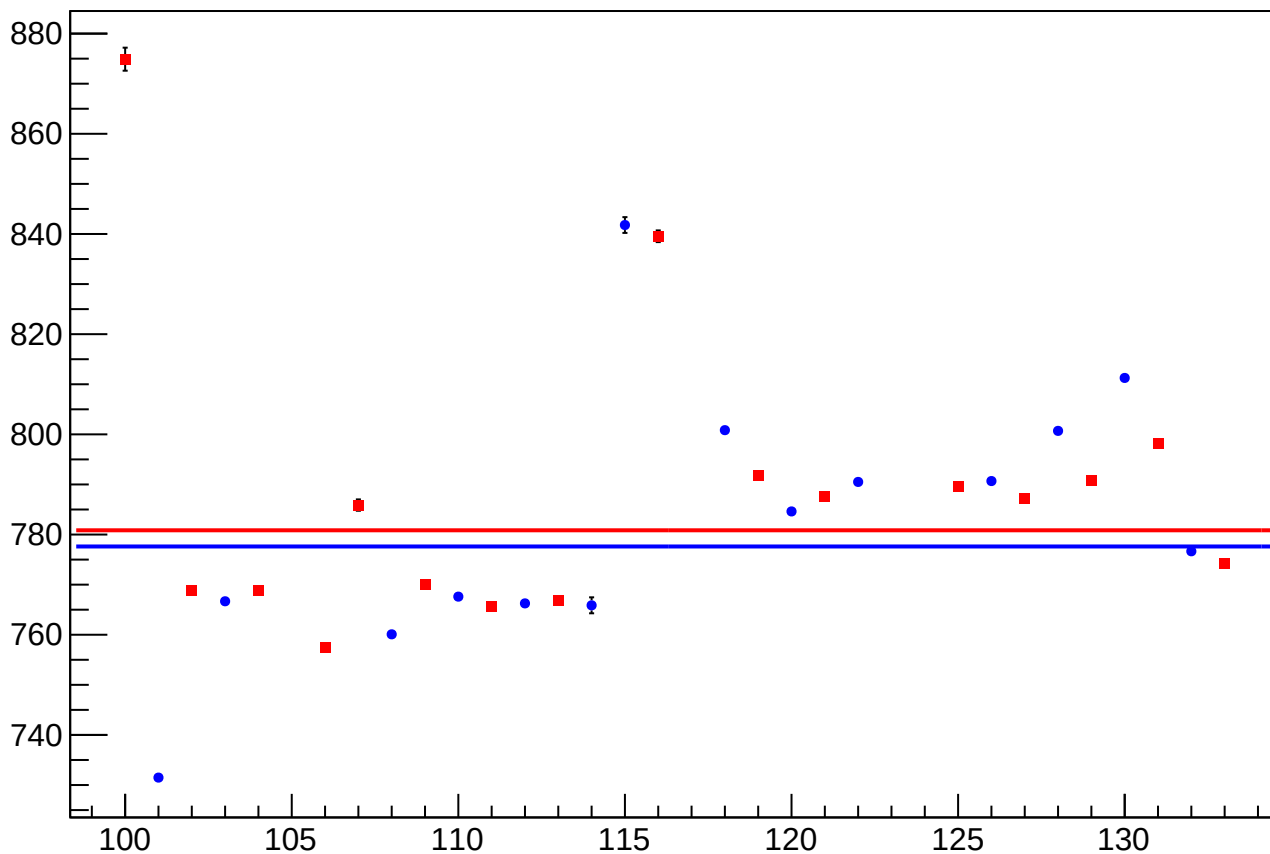
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -233.943+/-219.335  $\chi^2/\text{NDF}$ : 17.5/29

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

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



Right In: 777.619 $\pm$ 0.225  $\chi^2/\text{NDF}$ : 12044.3/13

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

Right Out: 780.850 $\pm$ 0.214  $\chi^2/\text{NDF}$ : 7315.7/15

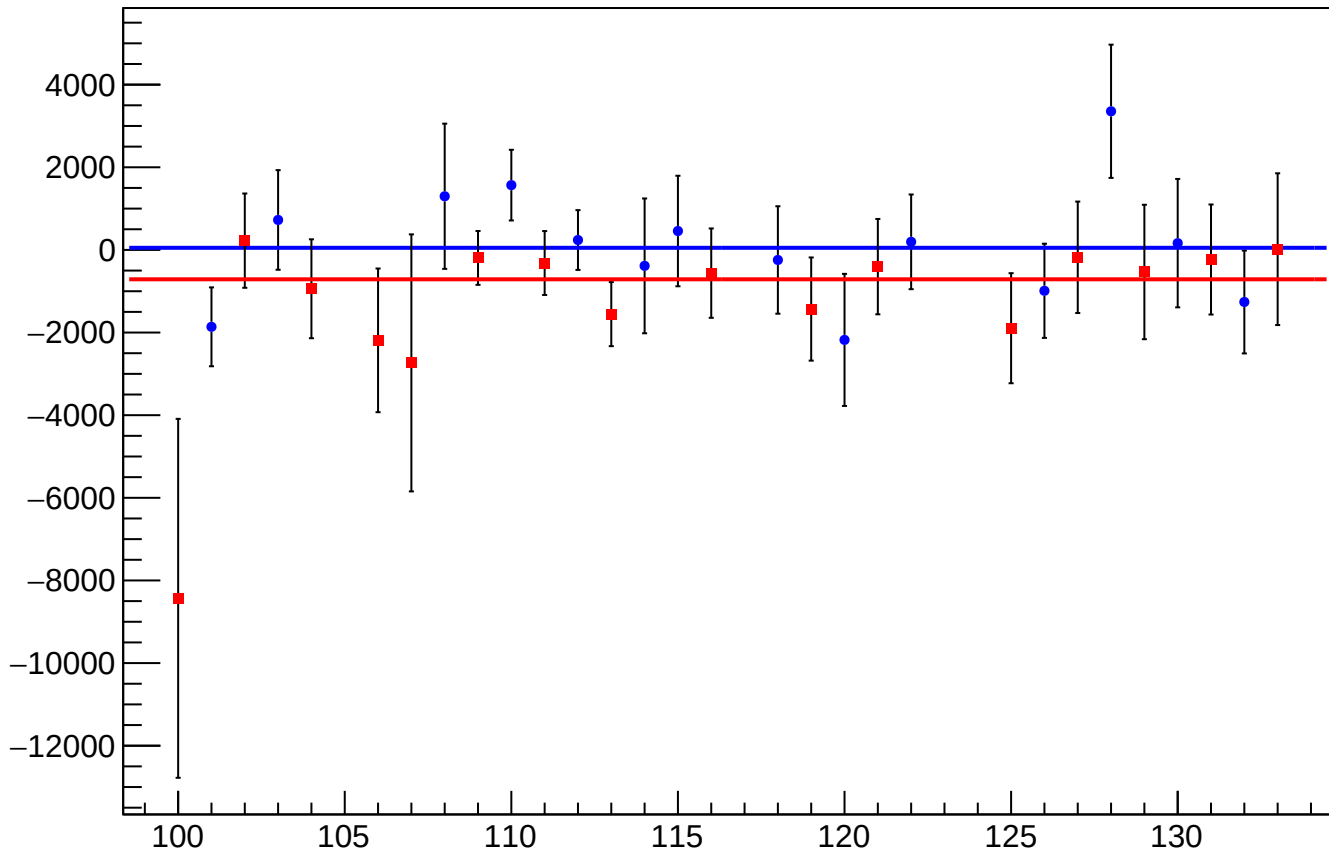
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 779.315 $\pm$ 0.155  $\chi^2/\text{NDF}$ : 19468.3/29

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

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



Right In: 51.164+/-311.869  $\chi^2/\text{NDF}$ : 16.4/13

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

Right Out: -711.078+/-285.777  $\chi^2/\text{NDF}$ : 8.8/15

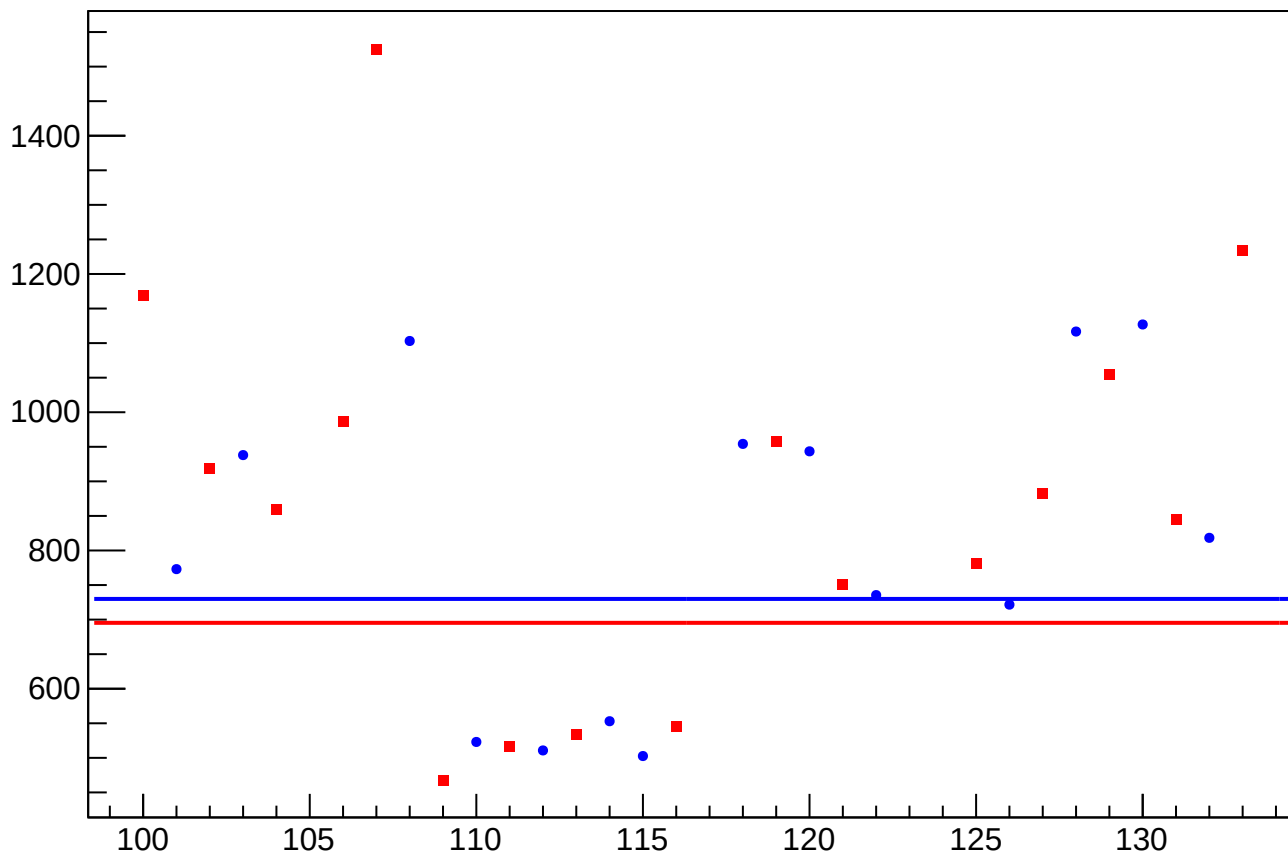
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -363.172+/-210.696  $\chi^2/\text{NDF}$ : 28.4/29

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

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



Right In: 729.919+/-0.221  $\chi^2/\text{NDF}$ : 887022.7/13

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

Right Out: 695.333+/-0.202  $\chi^2/\text{NDF}$ : 1248656.0/15

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

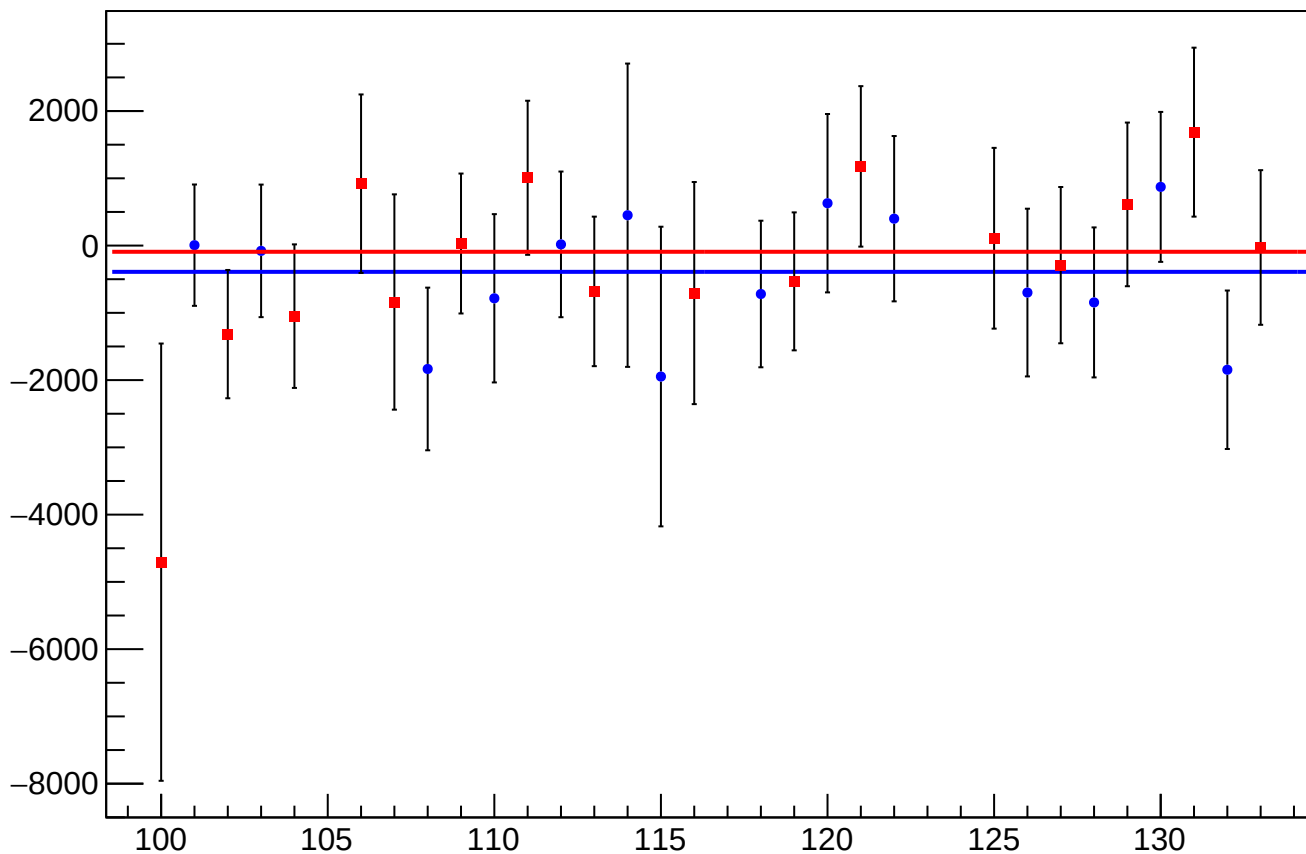
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 711.119+/-0.149  $\chi^2/\text{NDF}$ : 2149049.0/29

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



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



Right In: -390.518+/-318.164  $\chi^2/\text{NDF}$ : 6.7/13

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

Right Out: -92.144+/-302.780  $\chi^2/\text{NDF}$ : 10.3/15

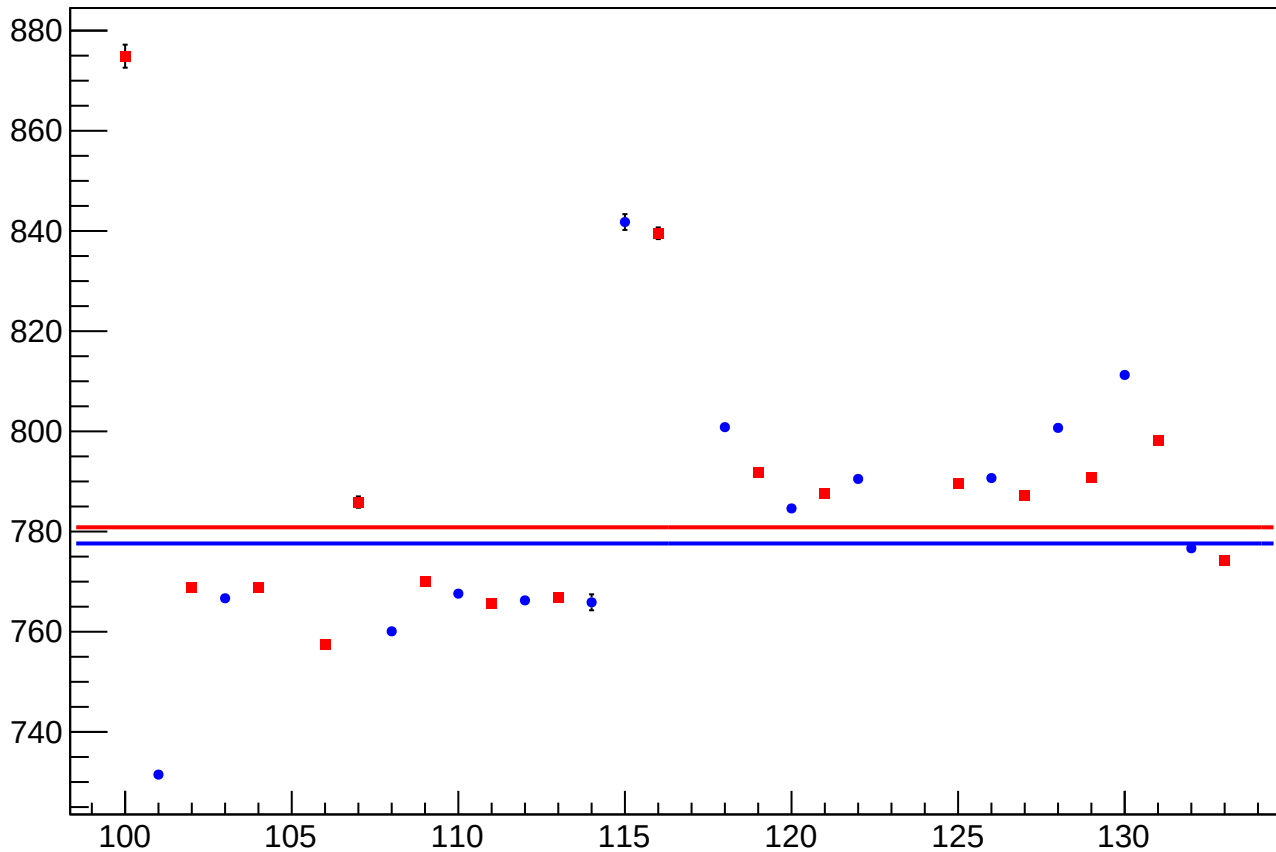
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -233.943+/-219.335  $\chi^2/\text{NDF}$ : 17.5/29

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

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



Right In: 777.619 $\pm$ 0.225  $\chi^2$ /NDF: 12044.3/13

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

Right Out: 780.850 $\pm$ 0.214  $\chi^2$ /NDF: 7315.7/15

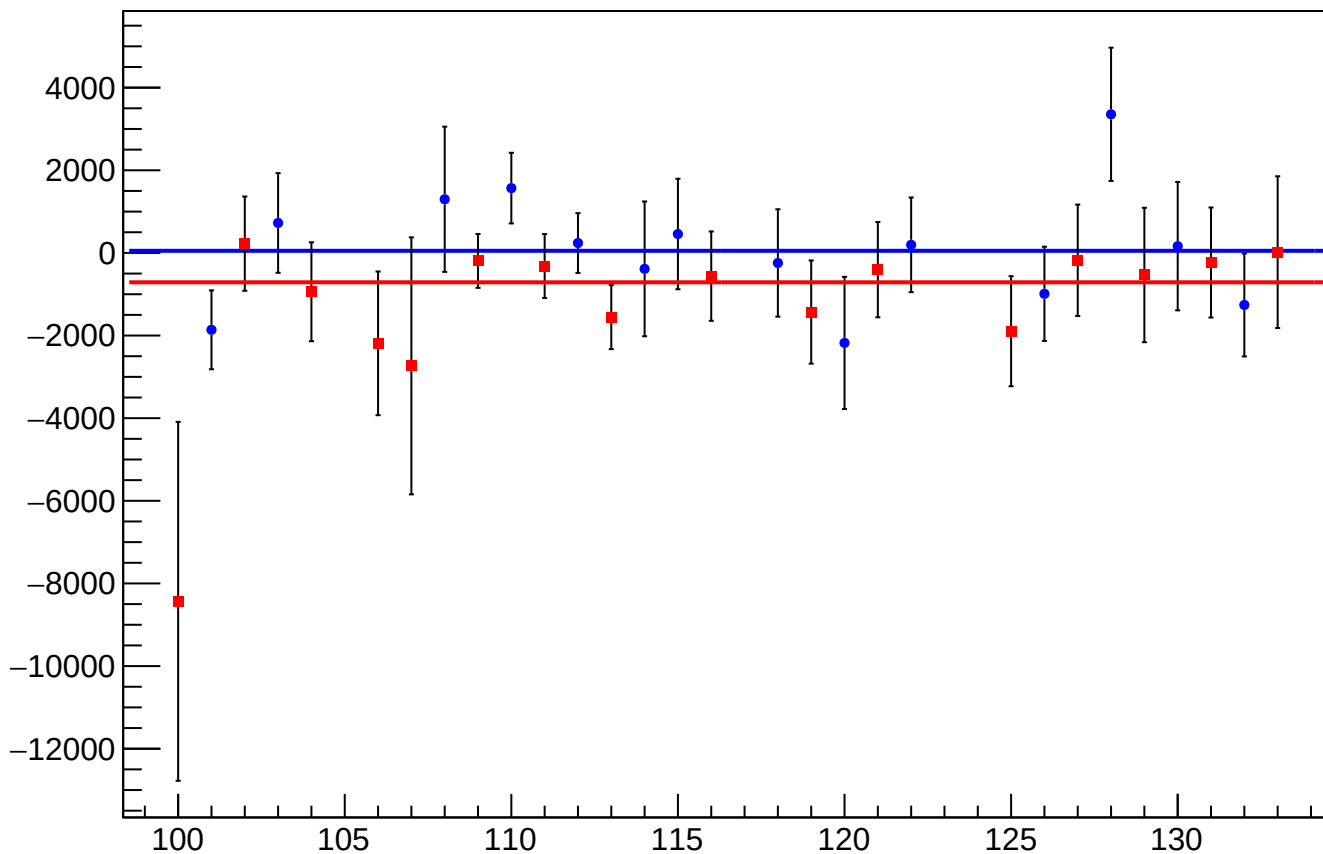
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 779.315 $\pm$ 0.155  $\chi^2$ /NDF: 19468.3/29

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

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



Right In: 51.164 $\pm$ 311.869  $\chi^2$ /NDF: 16.4/13

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

Right Out: -711.078 $\pm$ 285.777  $\chi^2$ /NDF: 8.8/15

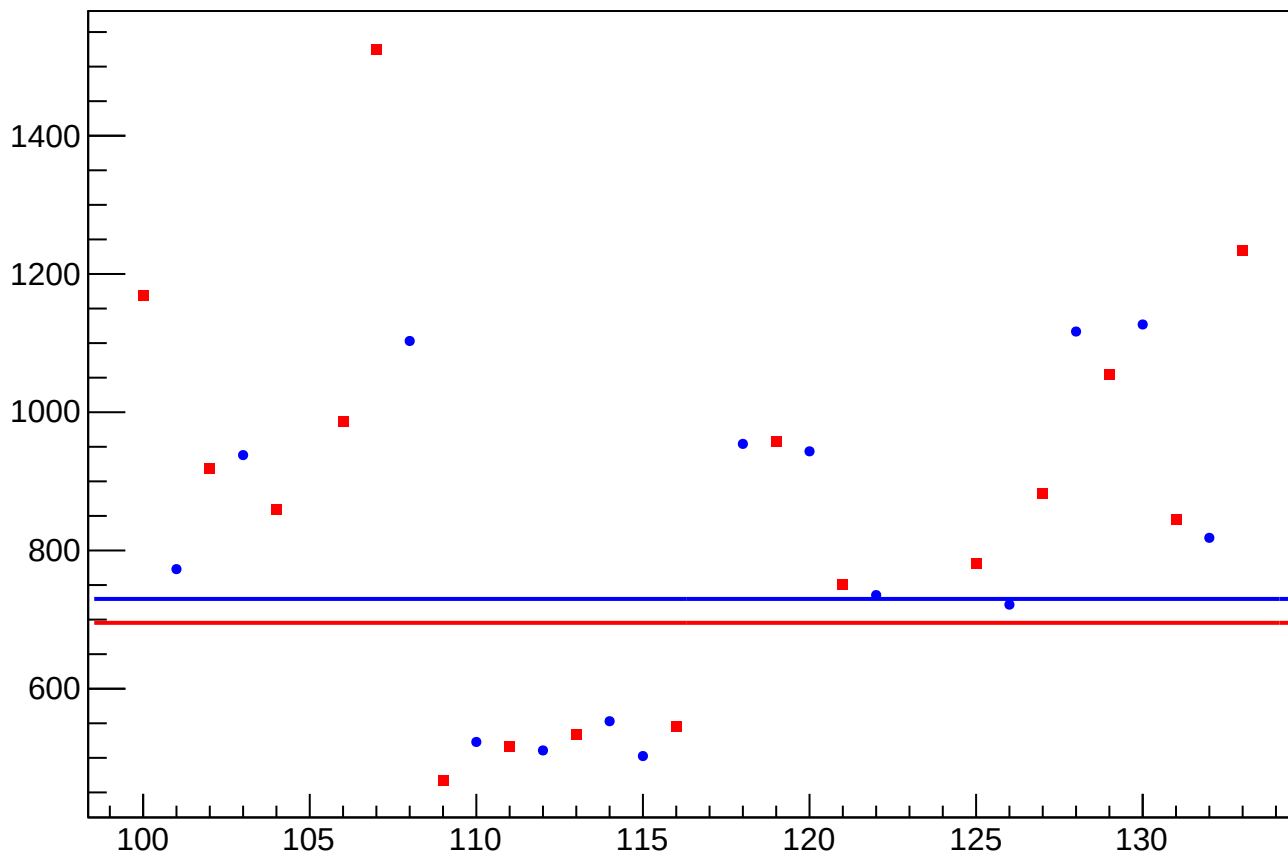
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -363.172 $\pm$ 210.696  $\chi^2$ /NDF: 28.4/29

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

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



Right In: 729.919+/-0.221  $\chi^2/\text{NDF}$ : 887022.7/13

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

Right Out: 695.333+/-0.202  $\chi^2/\text{NDF}$ : 1248656.0/15

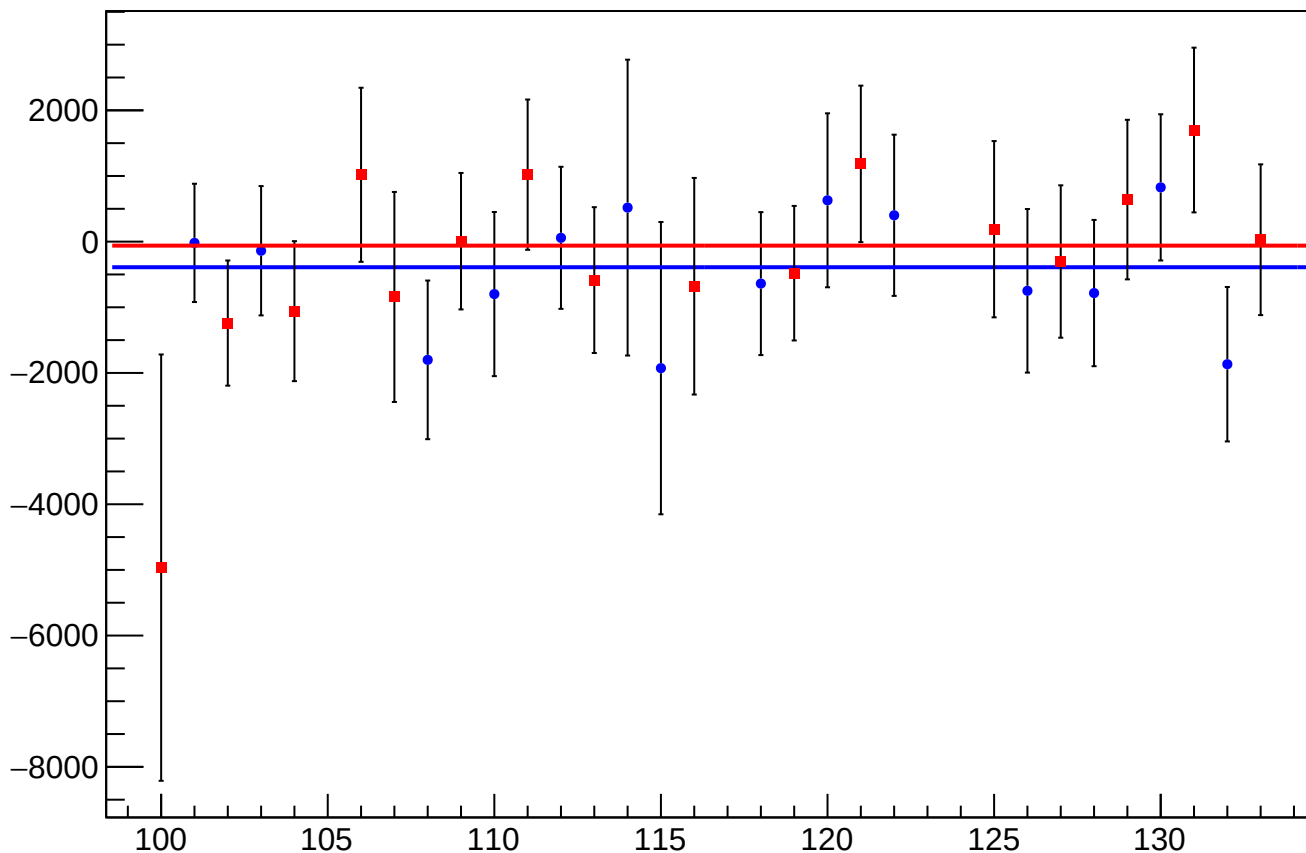
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 711.119+/-0.149  $\chi^2/\text{NDF}$ : 2149049.0/29

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

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



Right In:  $-389.882 \pm 317.852$   $\chi^2/\text{NDF}$ : 6.6/13

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

Right Out:  $-60.939 \pm 302.502$   $\chi^2/\text{NDF}$ : 10.5/15

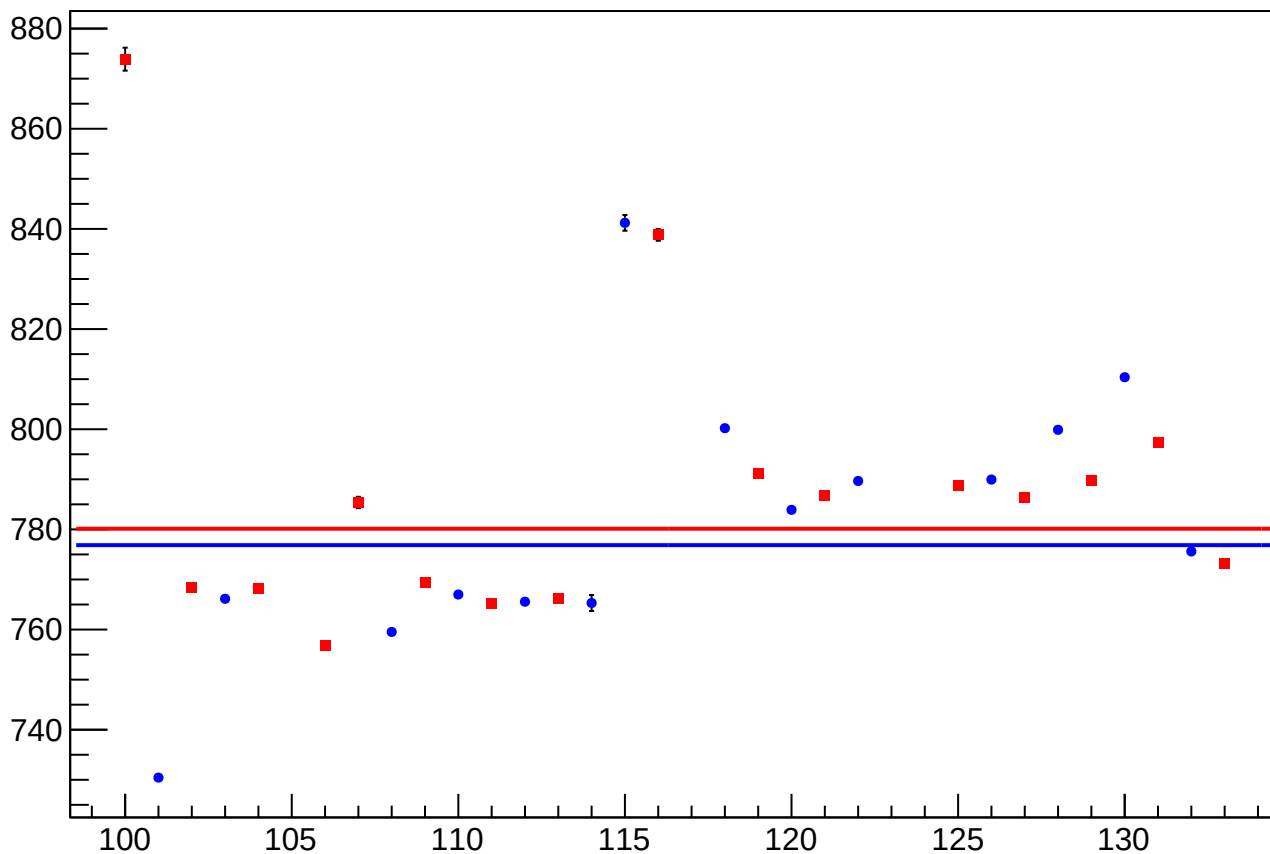
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-217.276 \pm 219.127$   $\chi^2/\text{NDF}$ : 17.6/29

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

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



Right In: 776.854+/-0.225  $\chi^2/\text{NDF}$ : 12111.9/13

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

Right Out: 780.134+/-0.214  $\chi^2/\text{NDF}$ : 7273.3/15

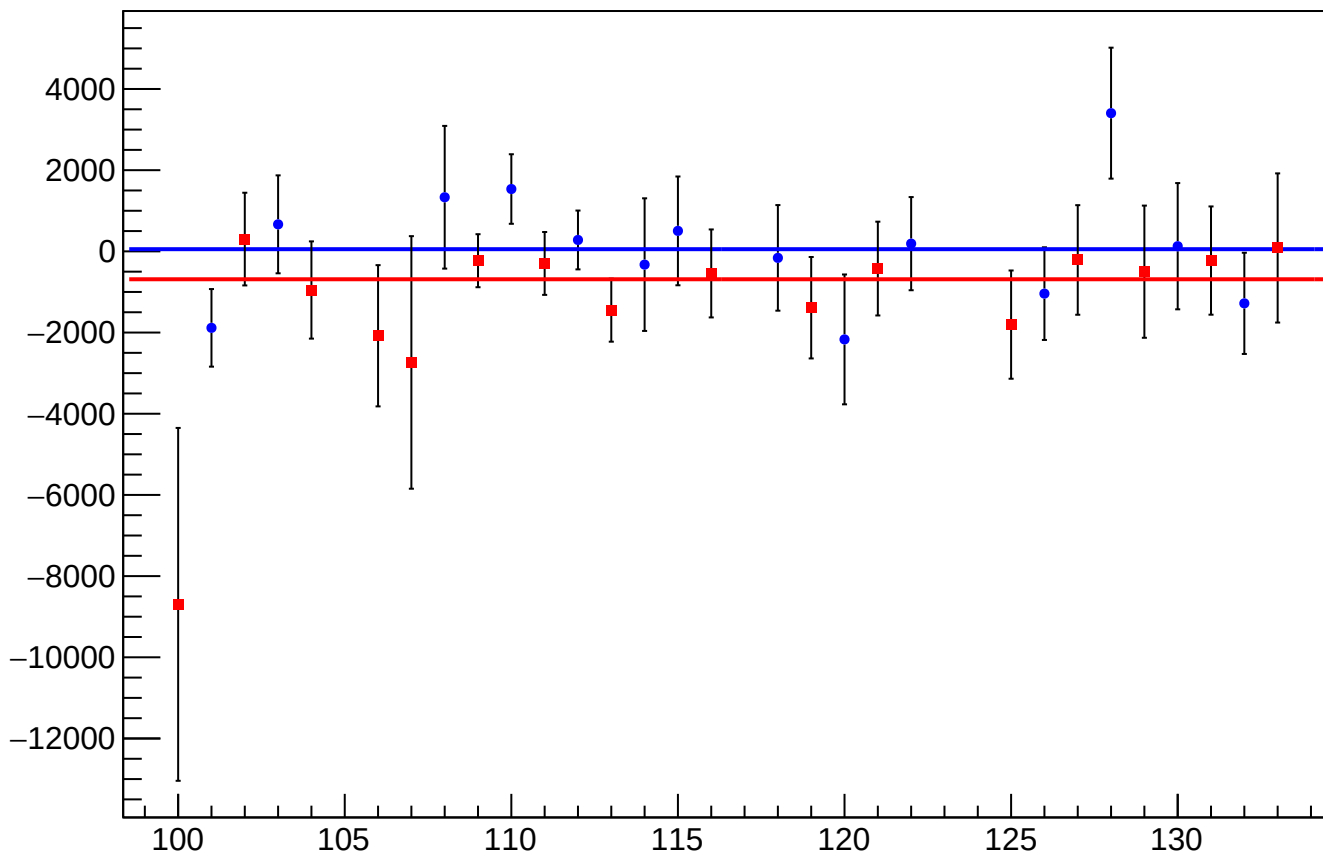
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 778.575+/-0.155  $\chi^2/\text{NDF}$ : 19496.9/29

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

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



Right In: 53.744+/-312.279  $\chi^2/\text{NDF}$ : 16.5/13

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

Right Out: -687.264+/-286.191  $\chi^2/\text{NDF}$ : 8.5/15

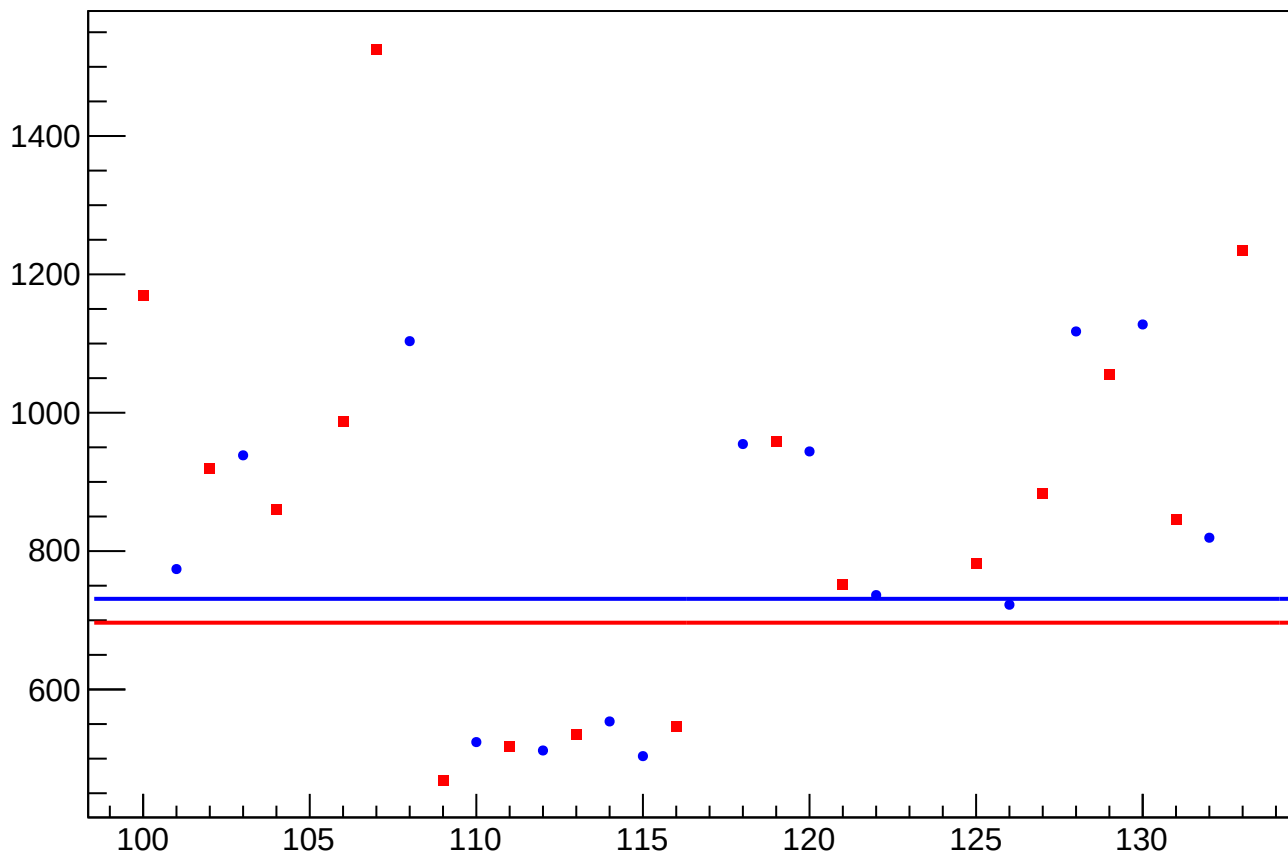
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -349.001+/-210.989  $\chi^2/\text{NDF}$ : 28.1/29

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

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



Right In: 731.000+/-0.221  $\chi^2/\text{NDF}$ : 883705.8/13

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

Right Out: 696.507+/-0.202  $\chi^2/\text{NDF}$ : 1243776.1/15

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

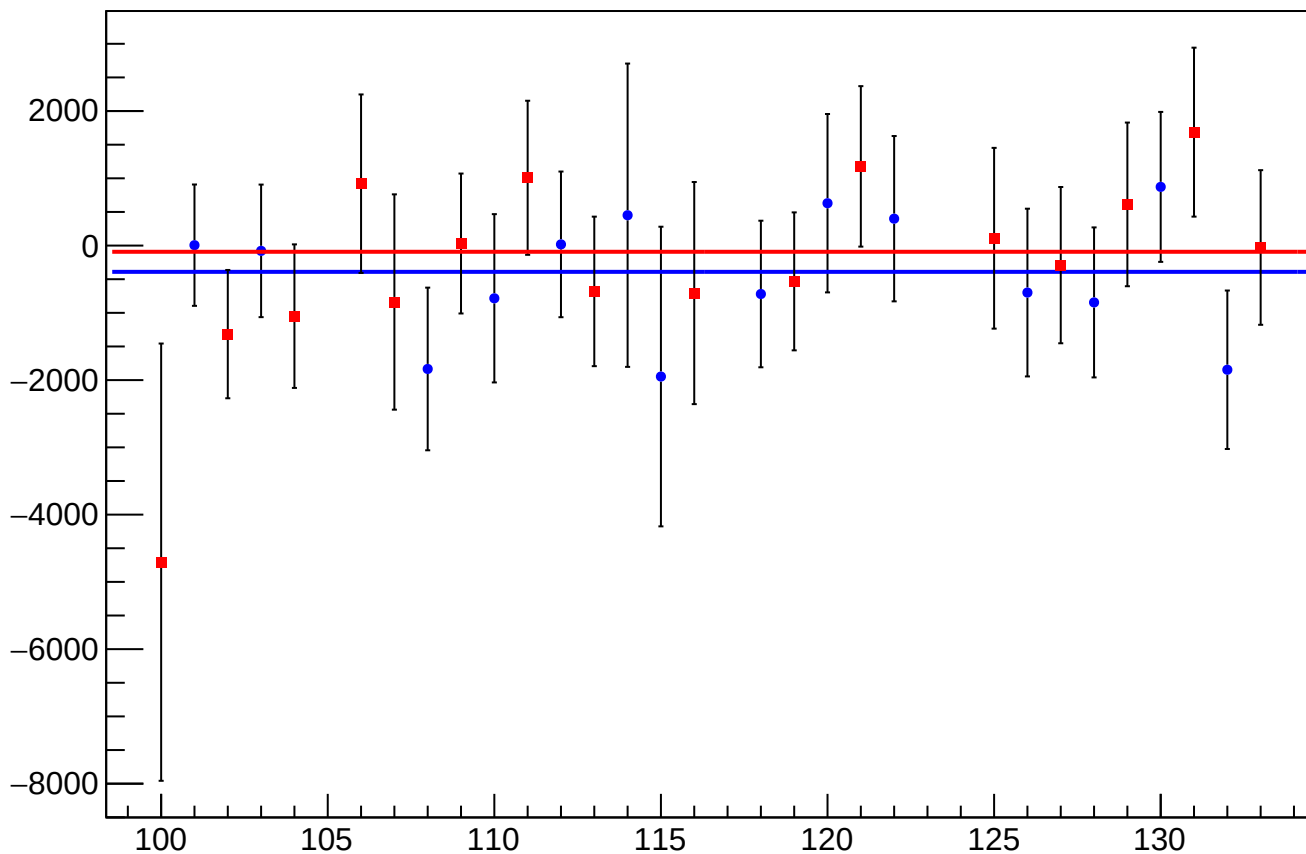
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 712.253+/-0.149  $\chi^2/\text{NDF}$ : 2140744.1/29

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



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



Right In: -390.518+/-318.164  $\chi^2$ /NDF: 6.7/13

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

Right Out: -92.144+/-302.780  $\chi^2$ /NDF: 10.3/15

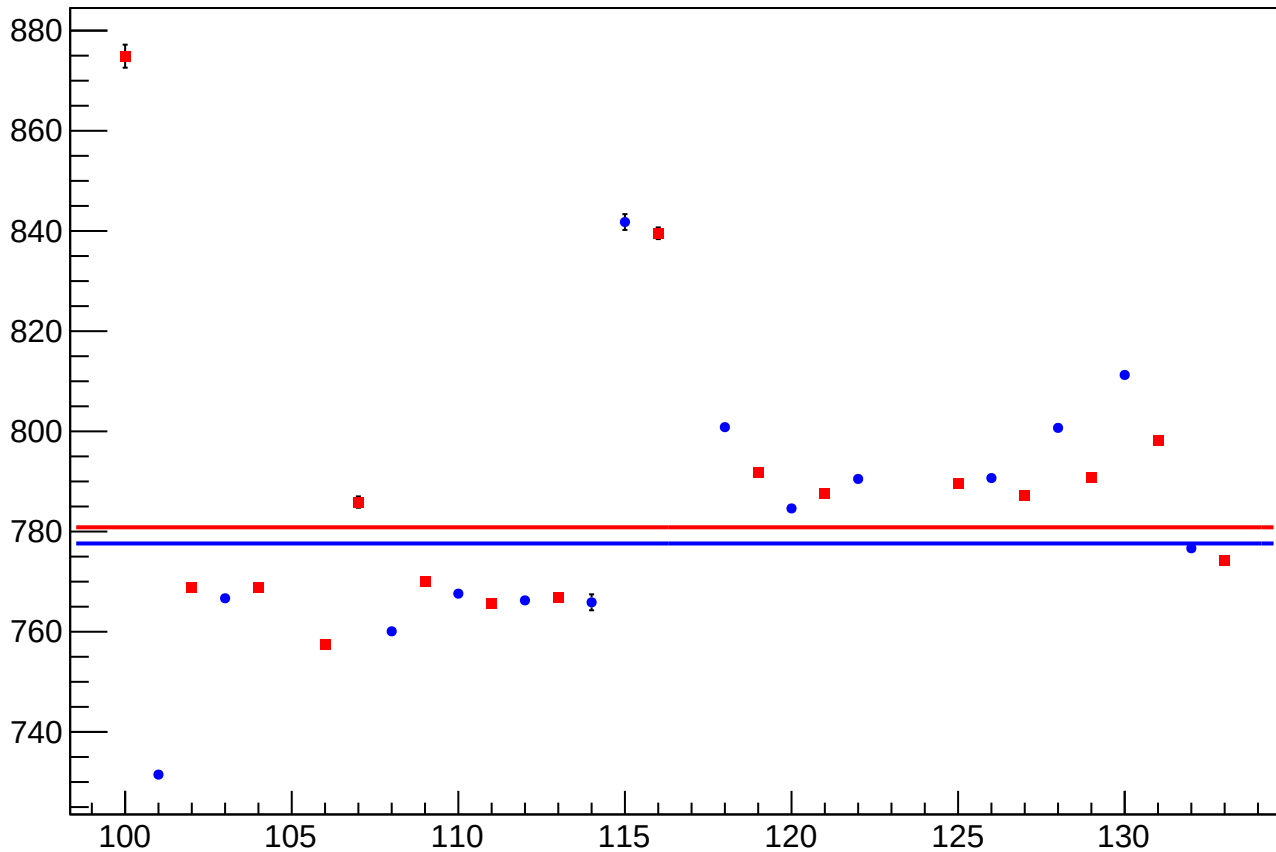
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -233.943+/-219.335  $\chi^2$ /NDF: 17.5/29

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

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



Right In: 777.619 $\pm$ 0.225  $\chi^2$ /NDF: 12044.3/13

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

Right Out: 780.850 $\pm$ 0.214  $\chi^2$ /NDF: 7315.7/15

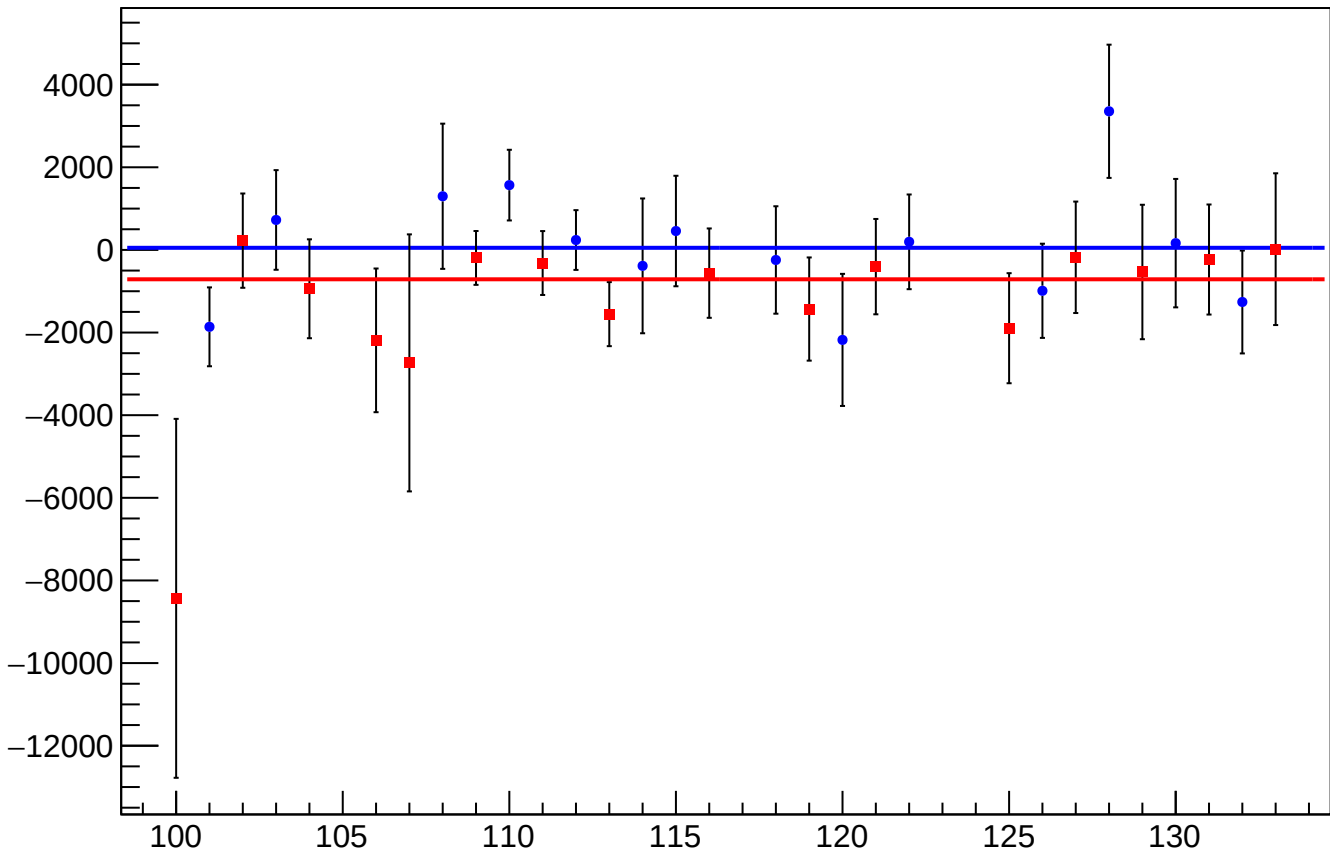
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 779.315 $\pm$ 0.155  $\chi^2$ /NDF: 19468.3/29

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

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



Right In: 51.164+/-311.869  $\chi^2/\text{NDF}$ : 16.4/13

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

Right Out: -711.078+/-285.777  $\chi^2/\text{NDF}$ : 8.8/15

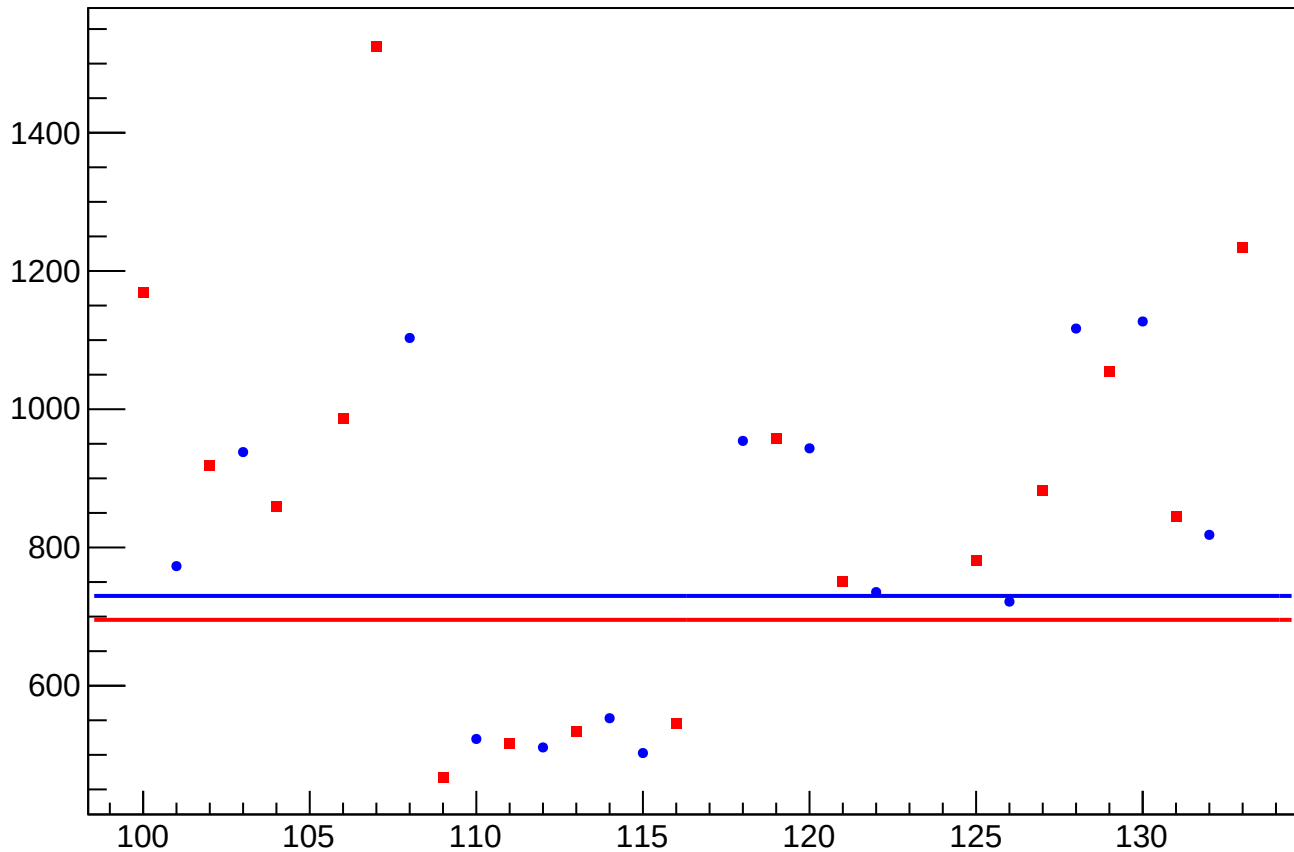
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -363.172+/-210.696  $\chi^2/\text{NDF}$ : 28.4/29

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

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



Right In: 729.919+/-0.221  $\chi^2/\text{NDF}$ : 887022.7/13

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

Right Out: 695.333+/-0.202  $\chi^2/\text{NDF}$ : 1248656.0/15

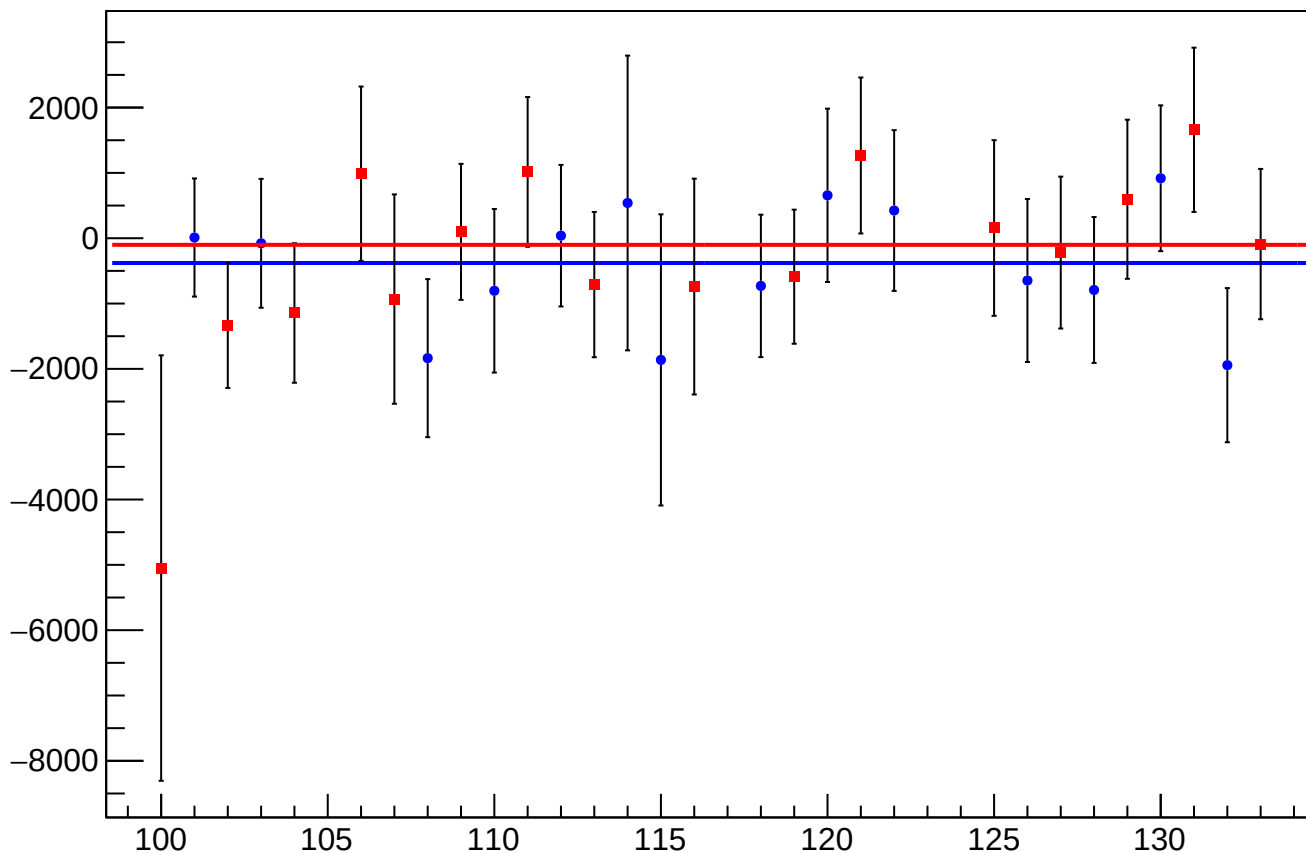
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 711.119+/-0.149  $\chi^2/\text{NDF}$ : 2149049.0/29

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

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



Right In:  $-379.533 \pm 318.500$   $\chi^2/\text{NDF}$ : 7.0/13

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

Right Out:  $-101.147 \pm 303.093$   $\chi^2/\text{NDF}$ : 11.2/15

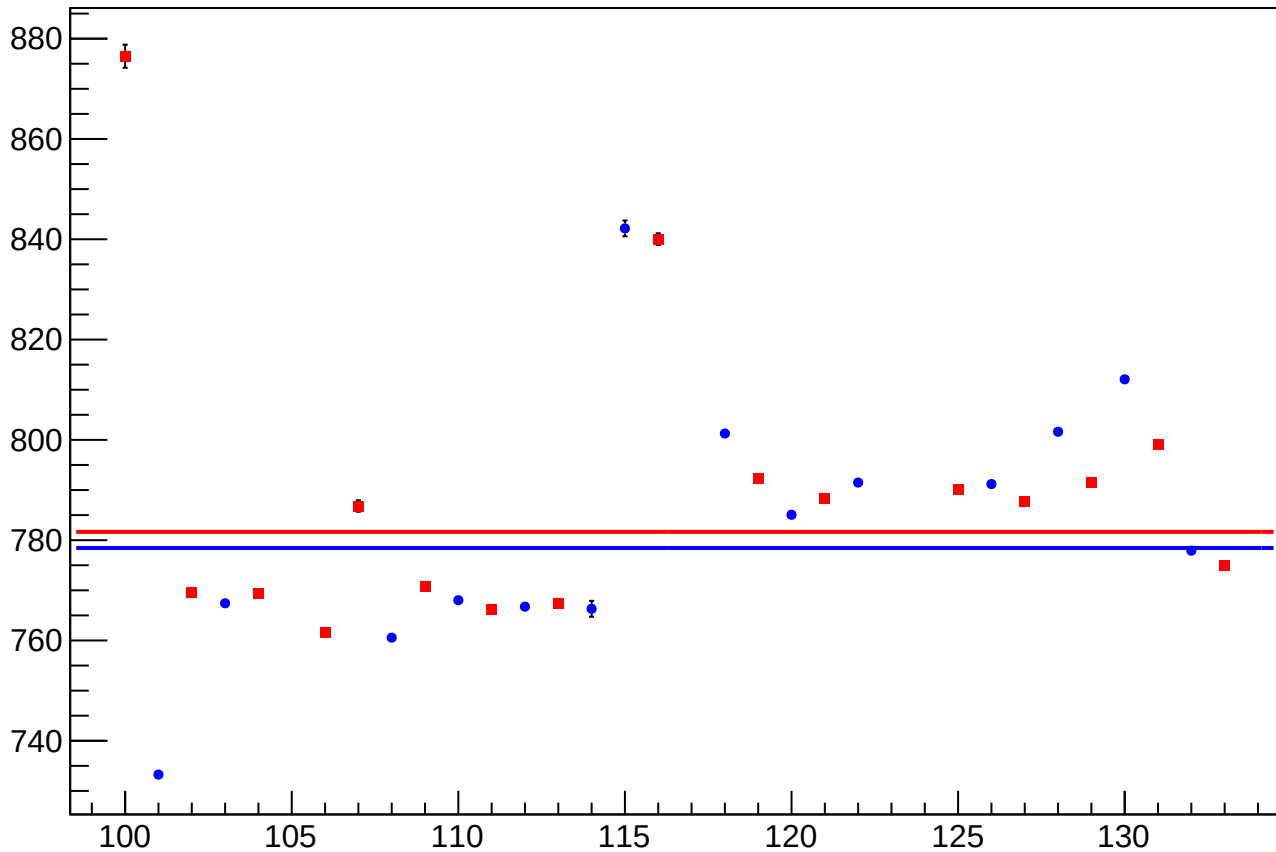
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-233.444 \pm 219.564$   $\chi^2/\text{NDF}$ : 18.6/29

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

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



Right In: 778.447 $\pm$ 0.225  $\chi^2$ /NDF: 11784.9/13

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

Right Out: 781.660 $\pm$ 0.214  $\chi^2$ /NDF: 7172.0/15

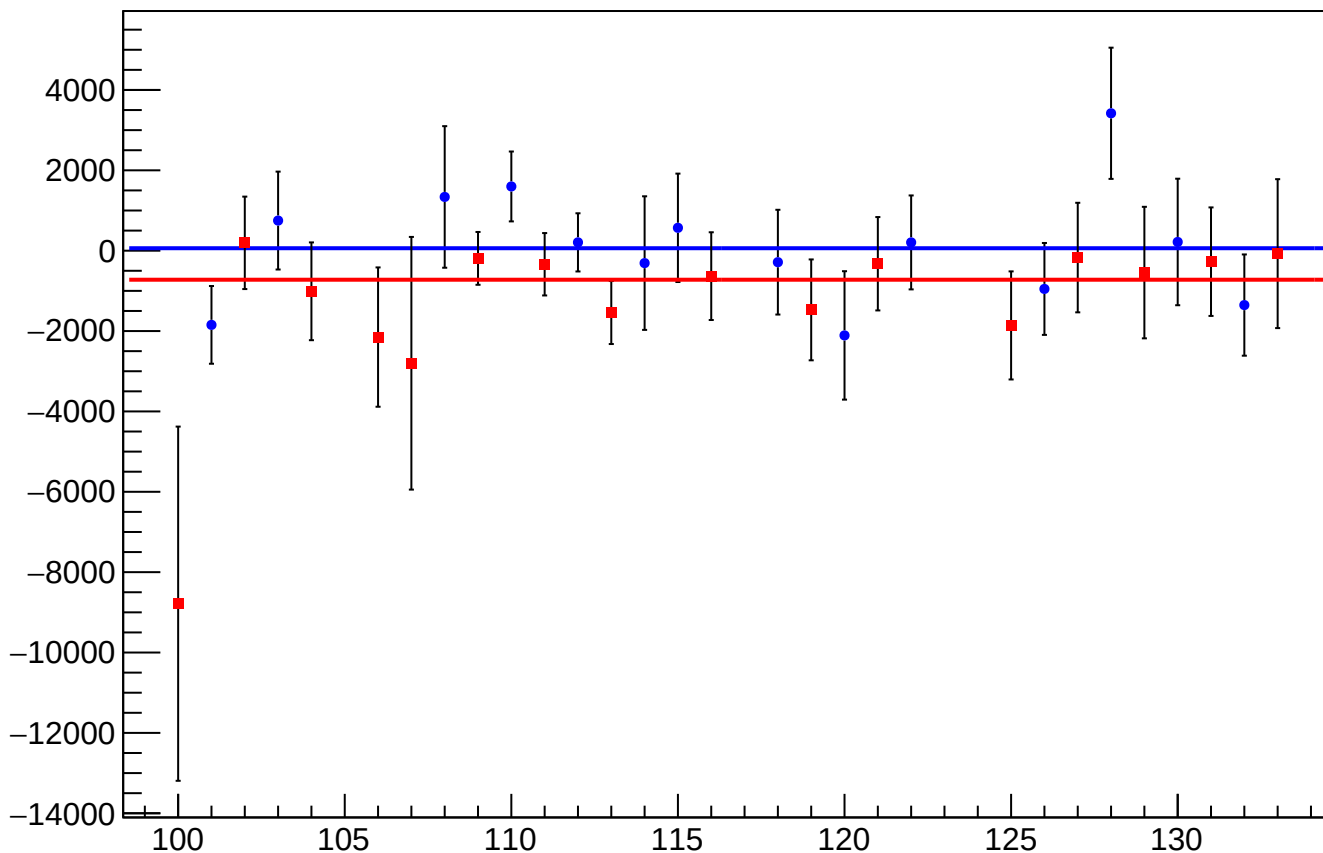
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 780.133 $\pm$ 0.155  $\chi^2$ /NDF: 19063.8/29

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

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



Right In: 61.315+/-314.761  $\chi^2$ /NDF: 16.3/13

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

Right Out: -722.396+/-288.232  $\chi^2$ /NDF: 8.7/15

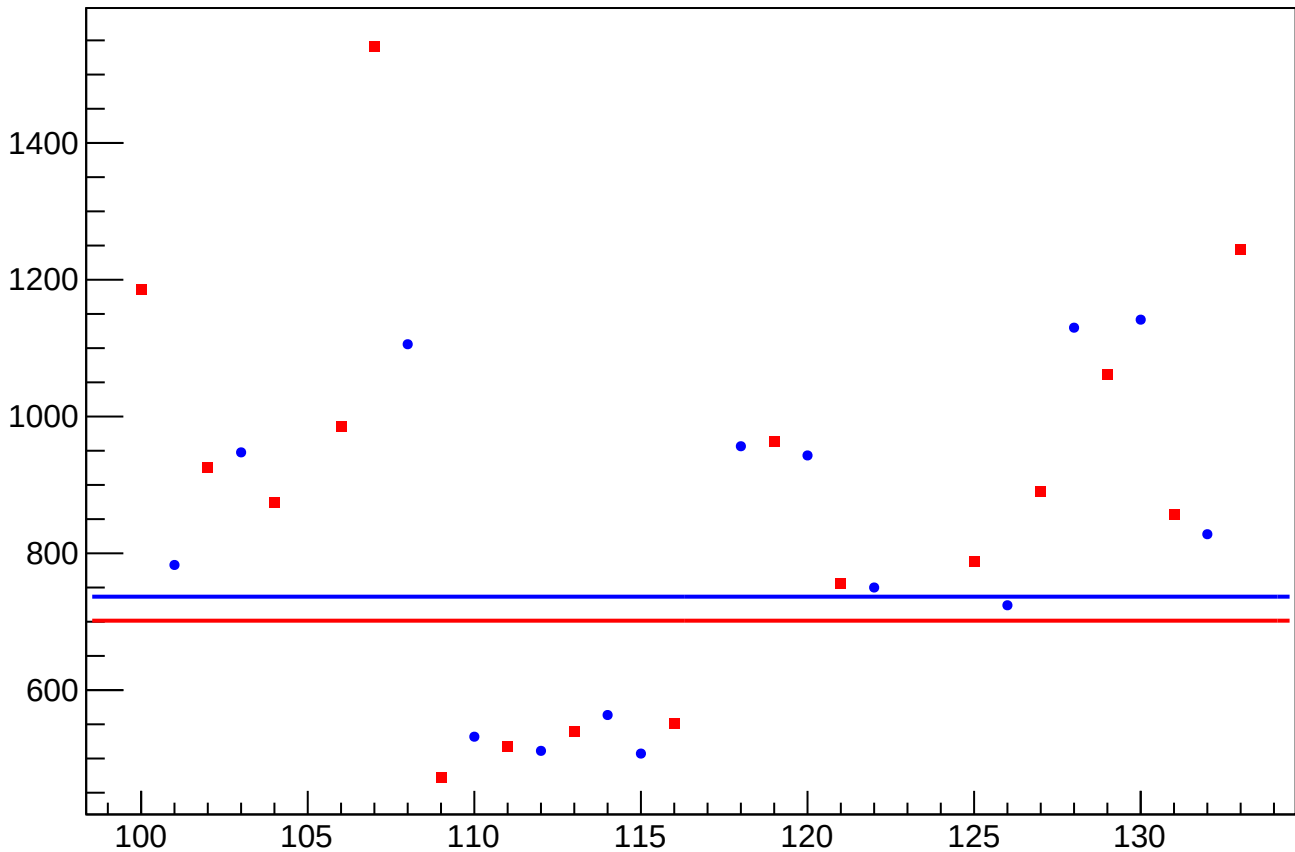
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -364.954+/-212.572  $\chi^2$ /NDF: 28.4/29

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

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



Right In: 736.633+/-0.223  $\chi^2/\text{NDF}$ : 886540.4/13

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

Right Out: 701.528+/-0.204  $\chi^2/\text{NDF}$ : 1248736.8/15

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

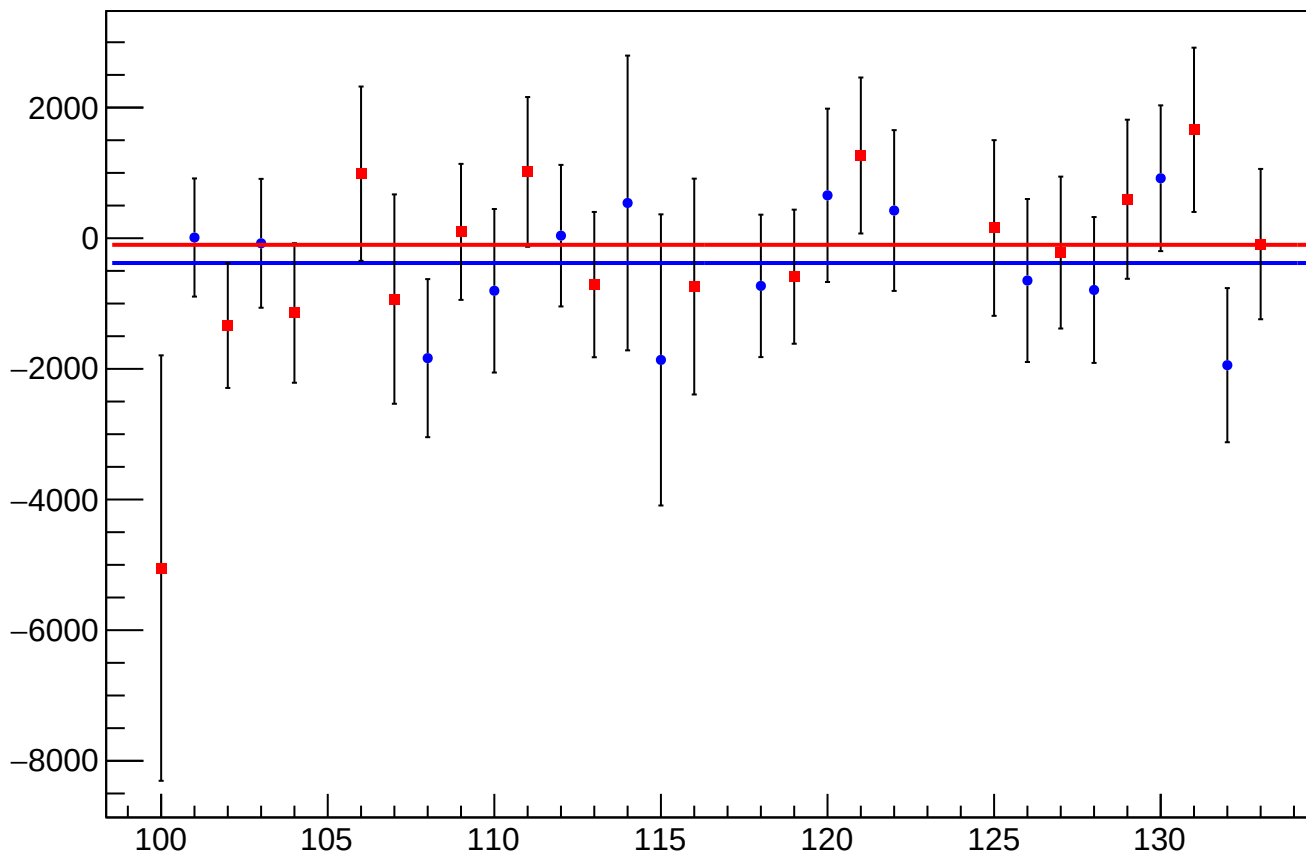
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 717.539+/-0.150  $\chi^2/\text{NDF}$ : 2148808.1/29

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



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



Right In:  $-379.534 \pm 318.500$   $\chi^2/\text{NDF}$ : 7.0/13

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

Right Out:  $-101.145 \pm 303.093$   $\chi^2/\text{NDF}$ : 11.2/15

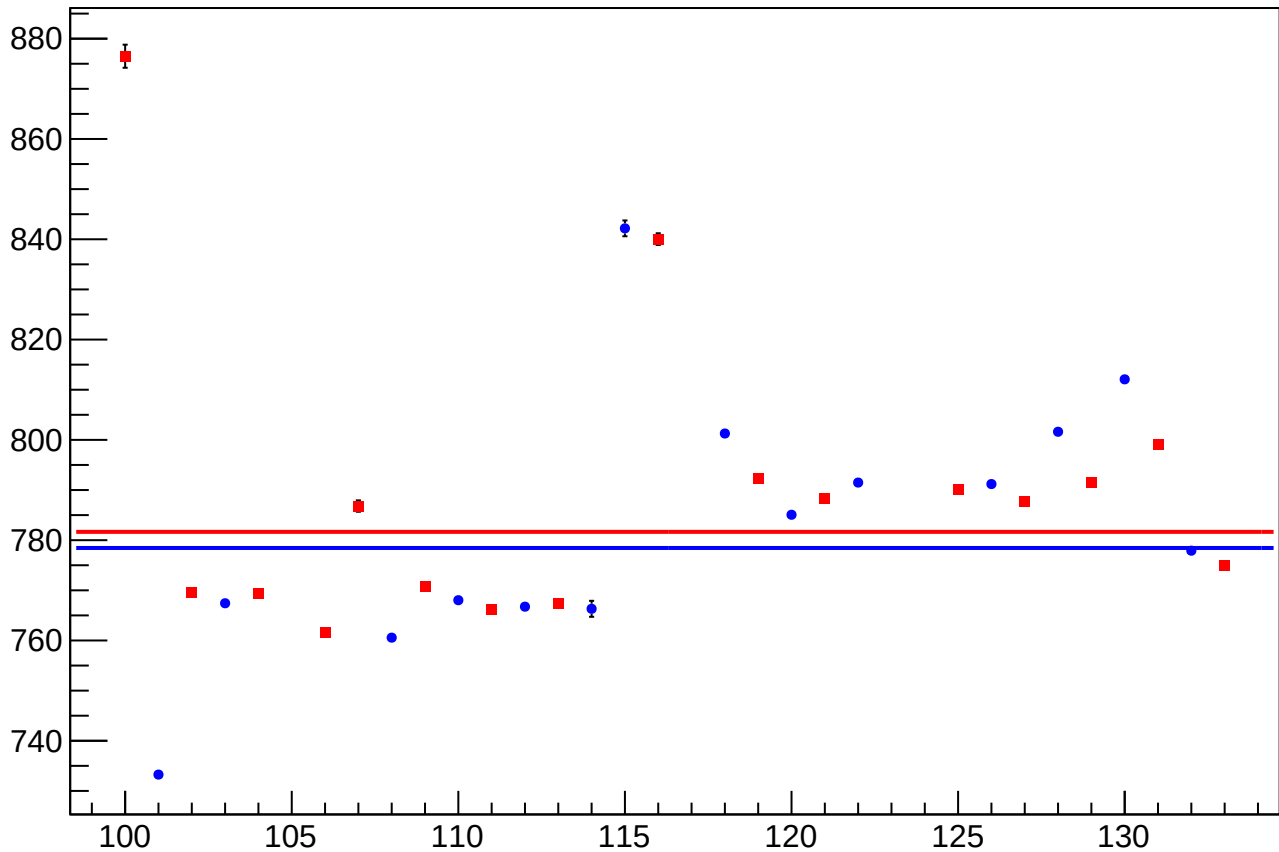
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-233.443 \pm 219.564$   $\chi^2/\text{NDF}$ : 18.6/29

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

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



Right In: 778.447 $\pm$ 0.225  $\chi^2$ /NDF: 11784.9/13

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

Right Out: 781.660 $\pm$ 0.214  $\chi^2$ /NDF: 7172.0/15

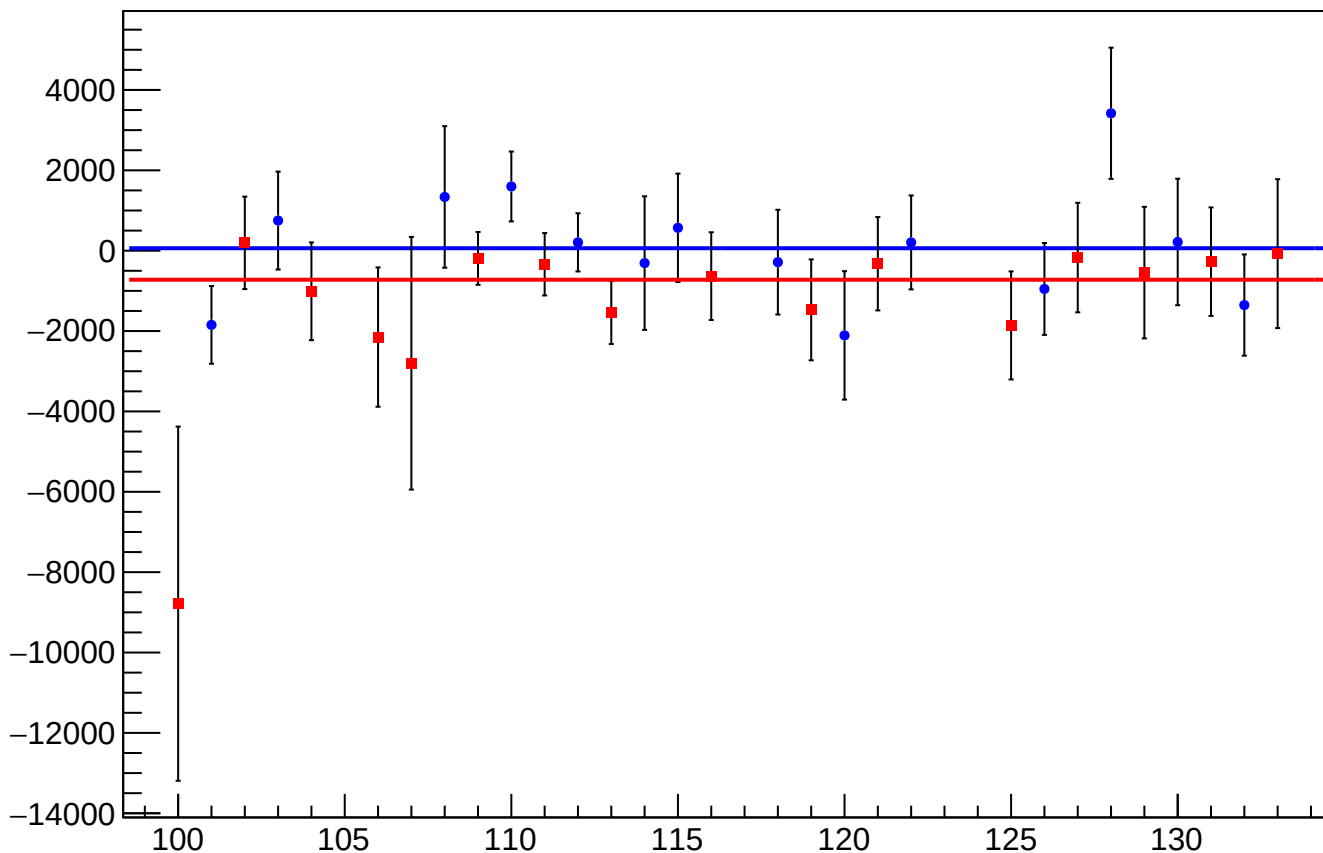
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 780.133 $\pm$ 0.155  $\chi^2$ /NDF: 19063.7/29

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

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



Right In: 61.316+/-314.759  $\chi^2$ /NDF: 16.3/13

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

Right Out: -722.393+/-288.230  $\chi^2$ /NDF: 8.7/15

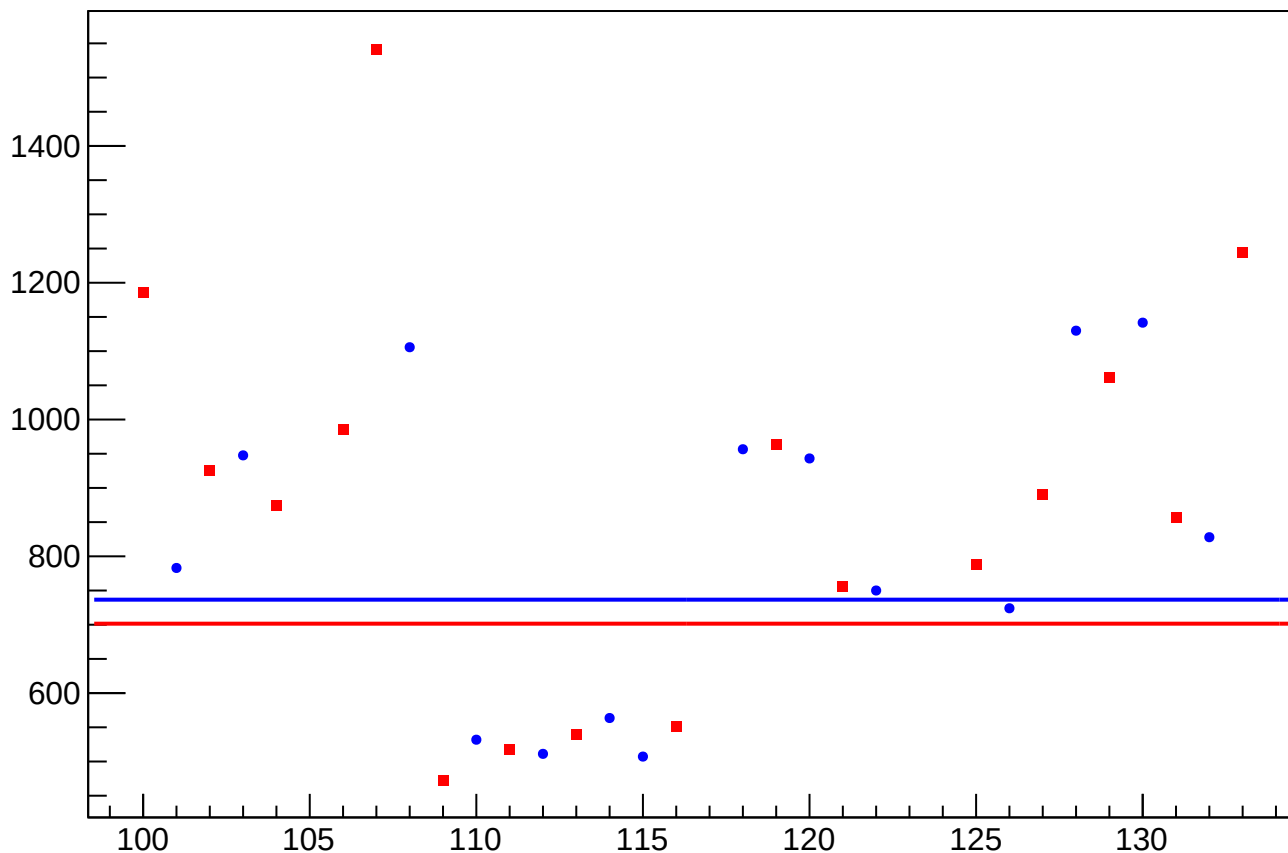
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -364.951+/-212.571  $\chi^2$ /NDF: 28.4/29

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

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



Right In: 736.629+/-0.223  $\chi^2/\text{NDF}$ : 886556.4/13

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

Right Out: 701.524+/-0.204  $\chi^2/\text{NDF}$ : 1248759.3/15

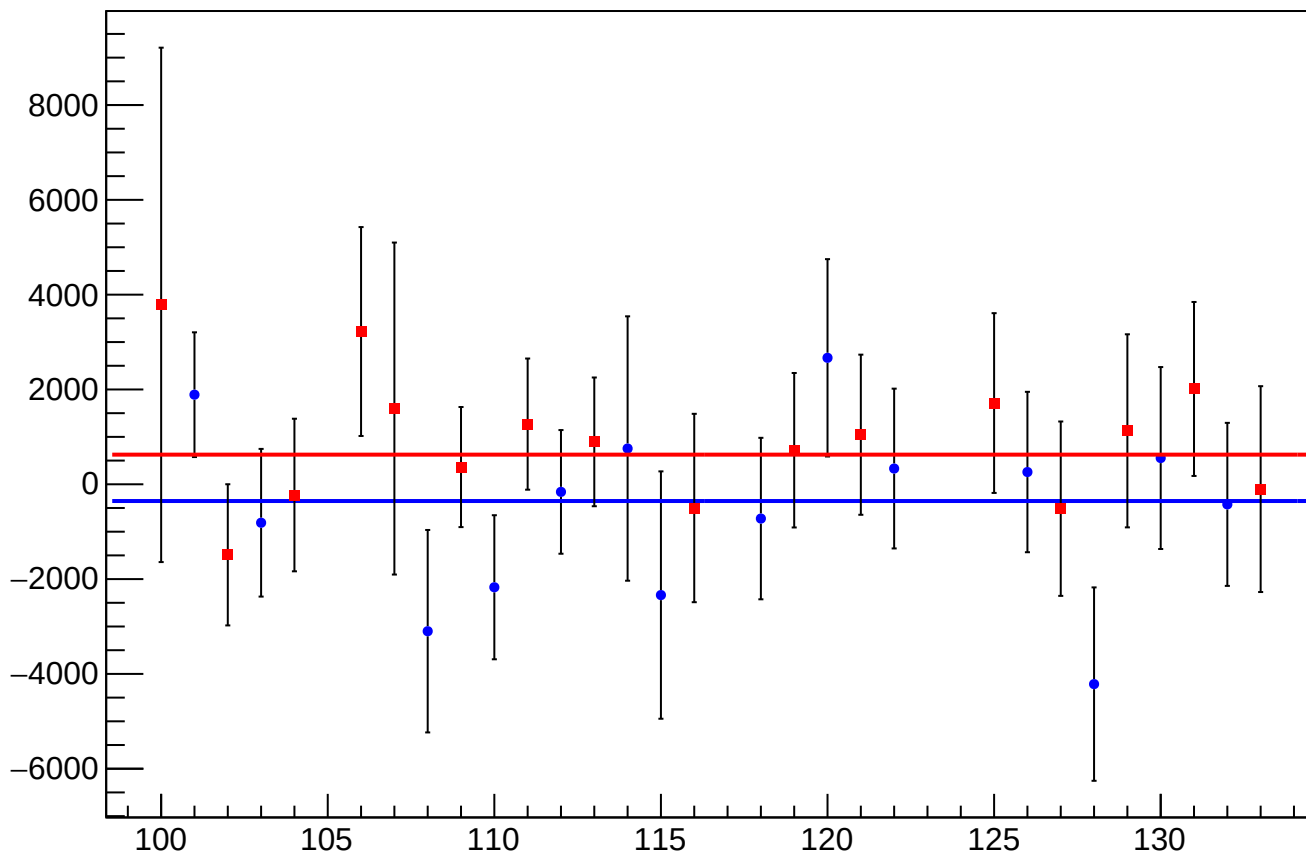
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 717.535+/-0.150  $\chi^2/\text{NDF}$ : 2148846.5/29

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

# asym\_us\_dd\_mean vs Slug



Right In: -353.108+/-464.613  $\chi^2/\text{NDF}$ : 13.1/13

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

Right Out: 625.340+/-440.592  $\chi^2/\text{NDF}$ : 6.2/15

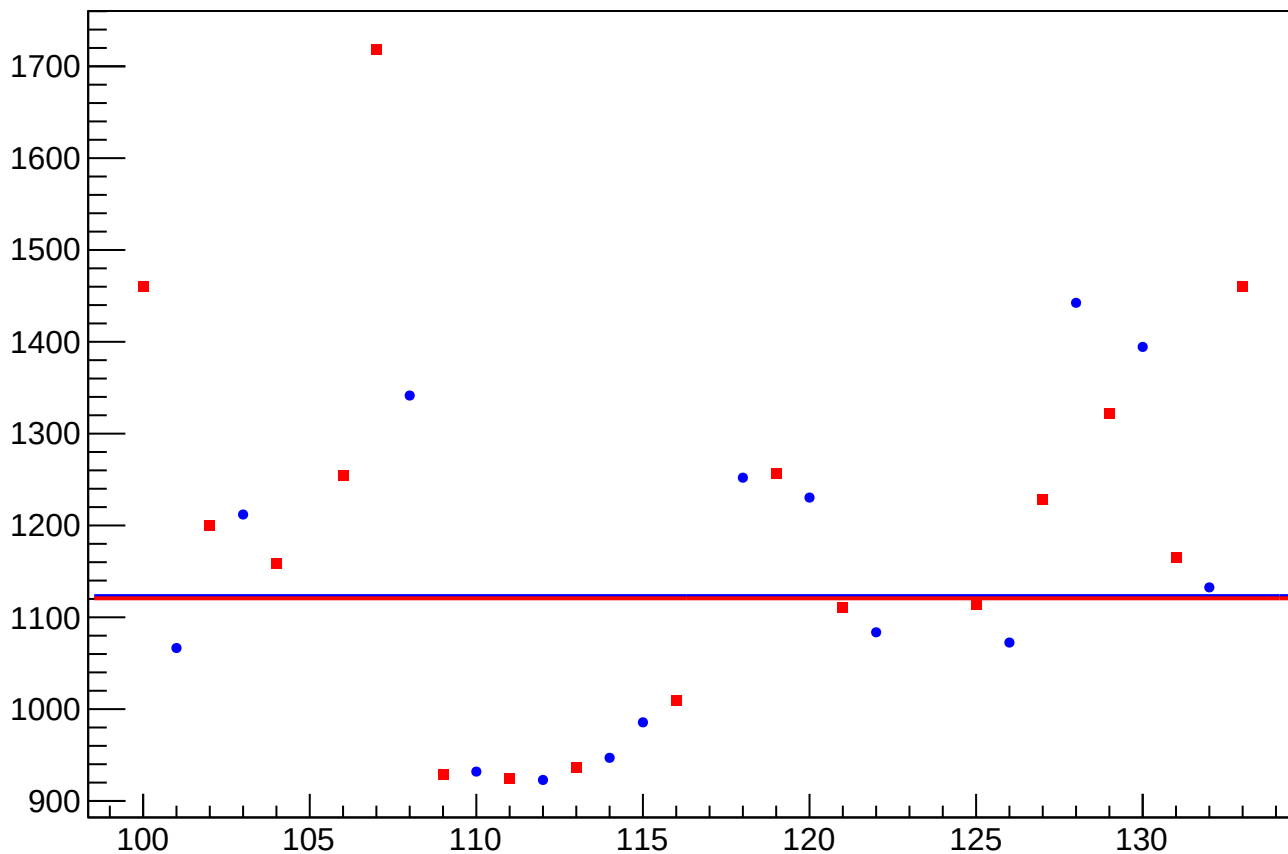
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 162.062+/-319.700  $\chi^2/\text{NDF}$ : 21.7/29

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

# asym\_us\_dd\_rms vs Slug



Right In: 1123.064+/-0.329  $\chi^2/\text{NDF}$ : 232148.0/13

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

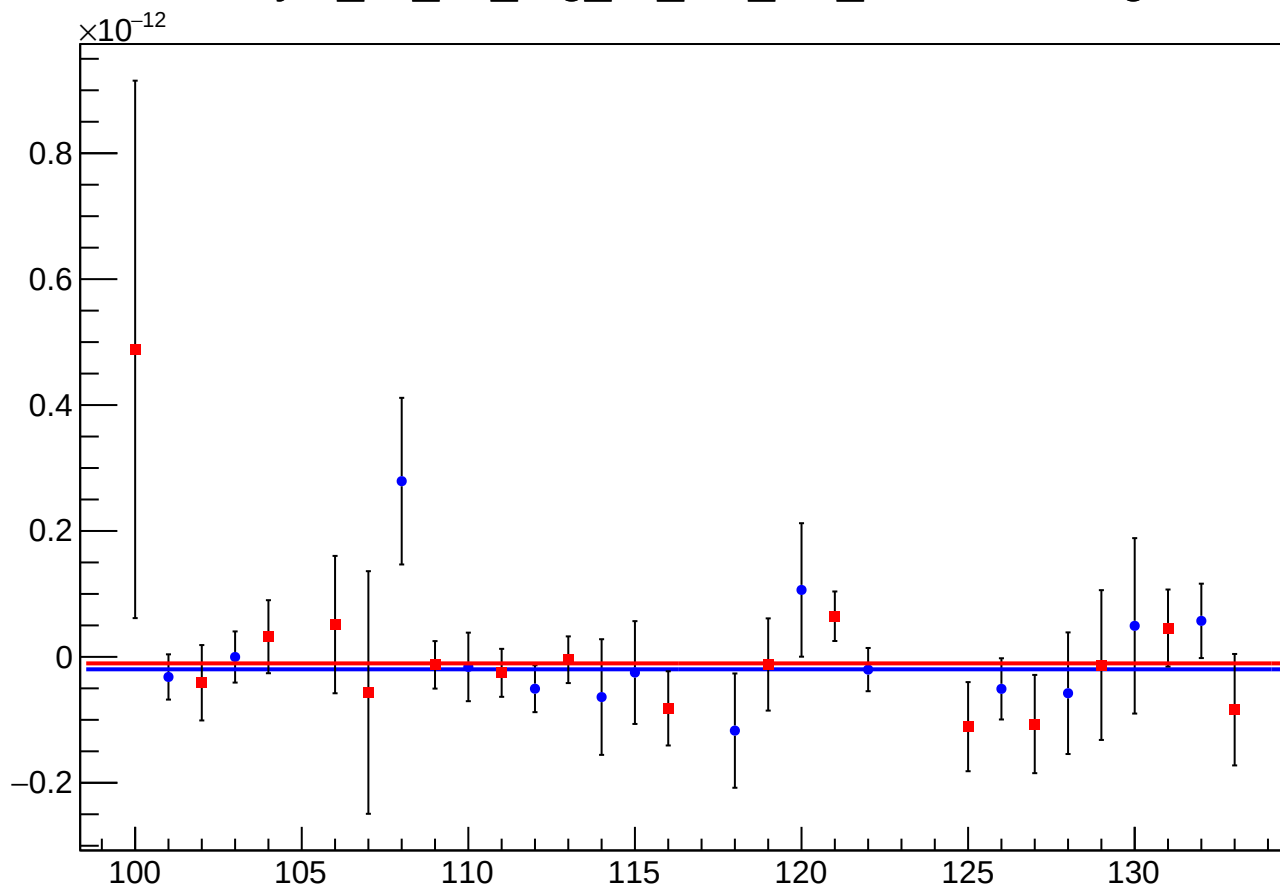
Right Out: 1120.673+/-0.312  $\chi^2/\text{NDF}$ : 299449.7/15

All: 1121.805+/-0.226  $\chi^2/\text{NDF}$ : 531625.6/29

- 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\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.4/13

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

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.9/15

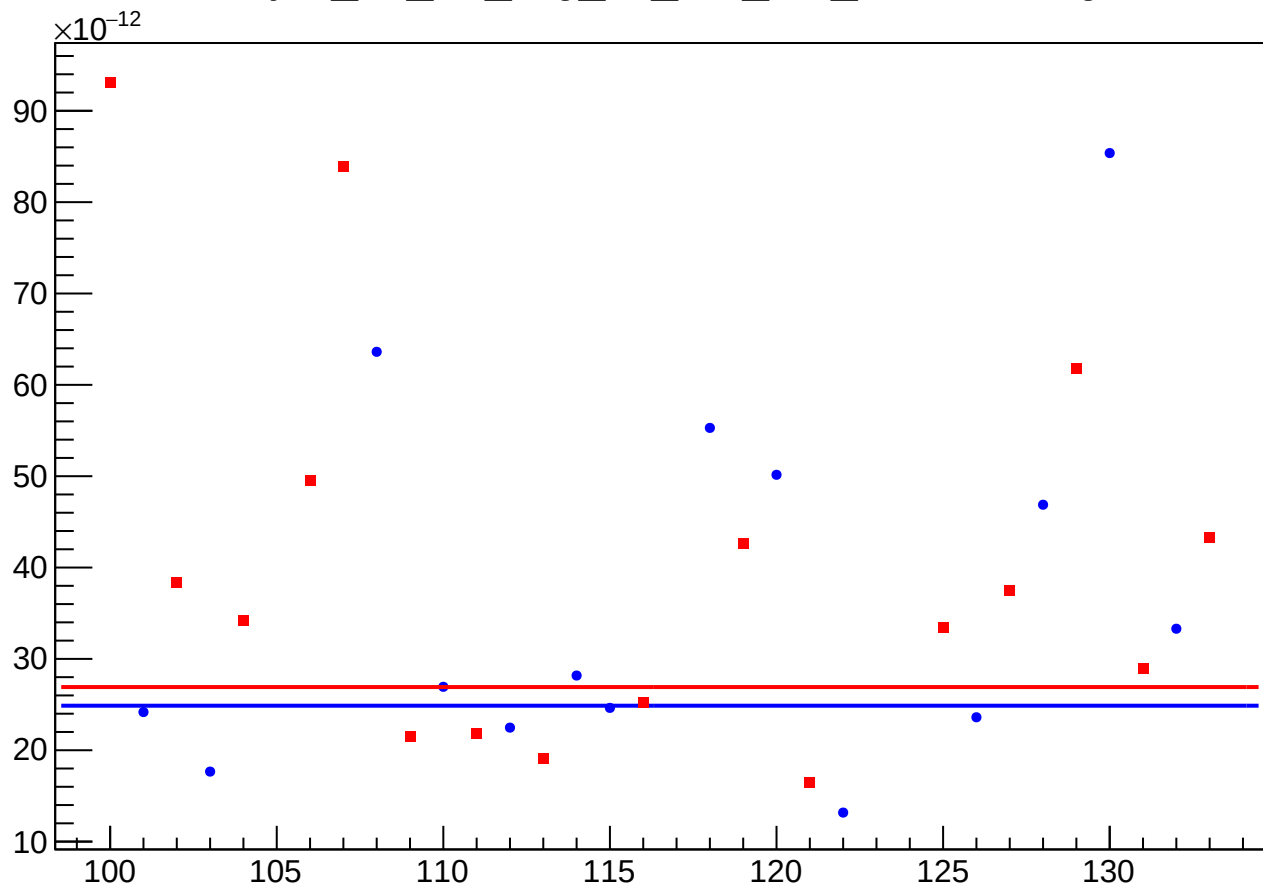
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 24.5/29

- 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  $\chi^2/\text{NDF}$ : 1342196.1/13

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1111657.9/15

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

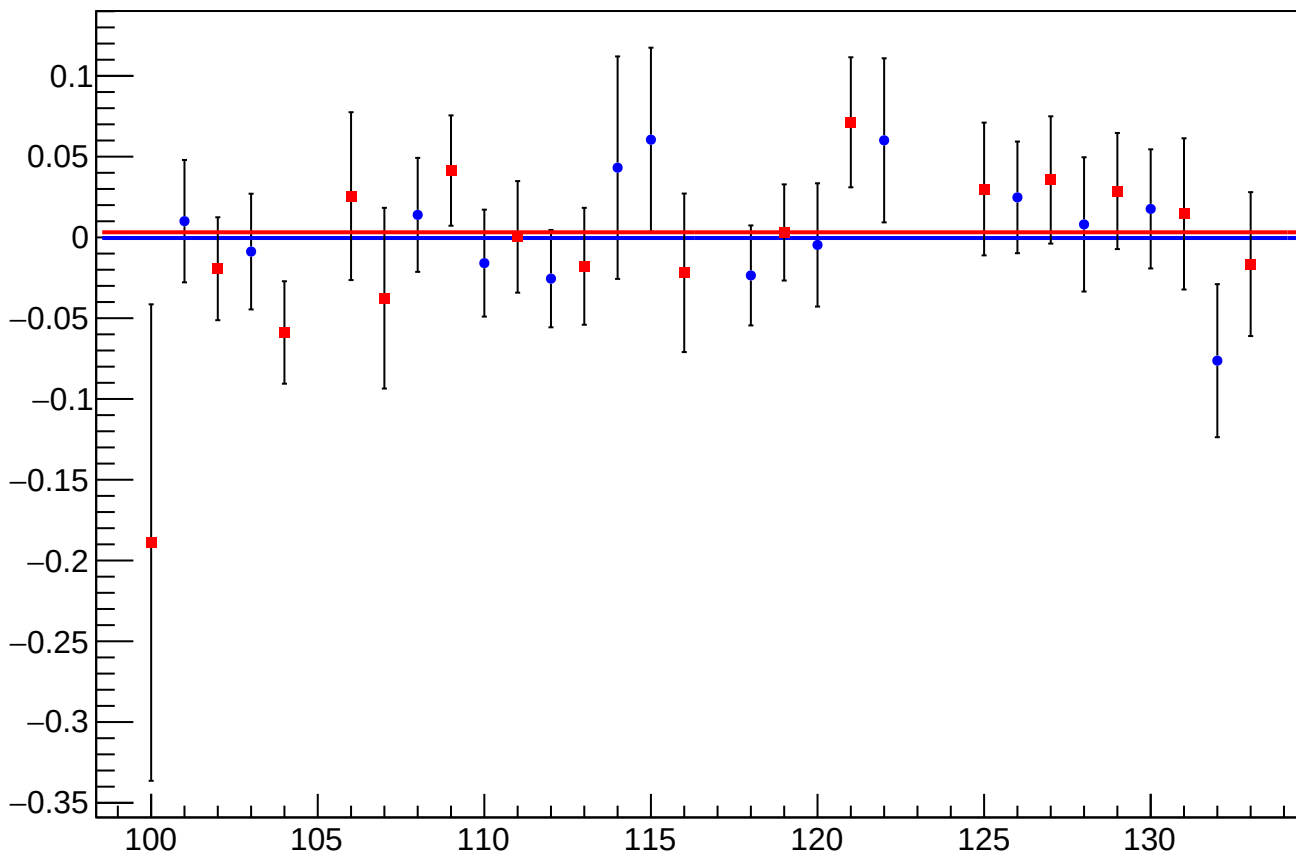
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2473537.9/29

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



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



Right In:  $-0.000 \pm 0.010$   $\chi^2/\text{NDF}$ : 8.1/13

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

Right Out:  $0.003 \pm 0.010$   $\chi^2/\text{NDF}$ : 13.3/15

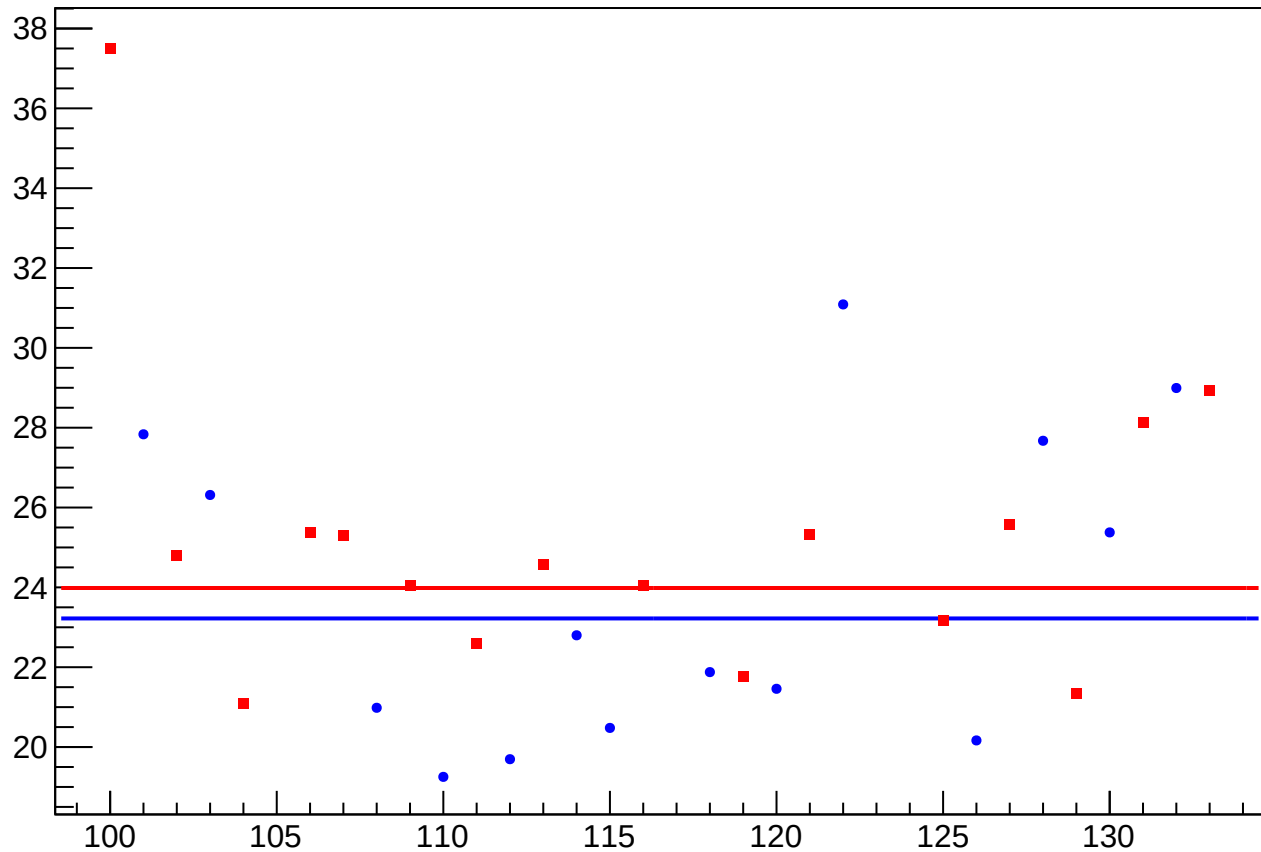
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $0.001 \pm 0.007$   $\chi^2/\text{NDF}$ : 21.5/29

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

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



Right In: 23.222 $\pm$ 0.007  $\chi^2$ /NDF: 244636.5/13

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

Right Out: 23.984 $\pm$ 0.007  $\chi^2$ /NDF: 109603.4/15

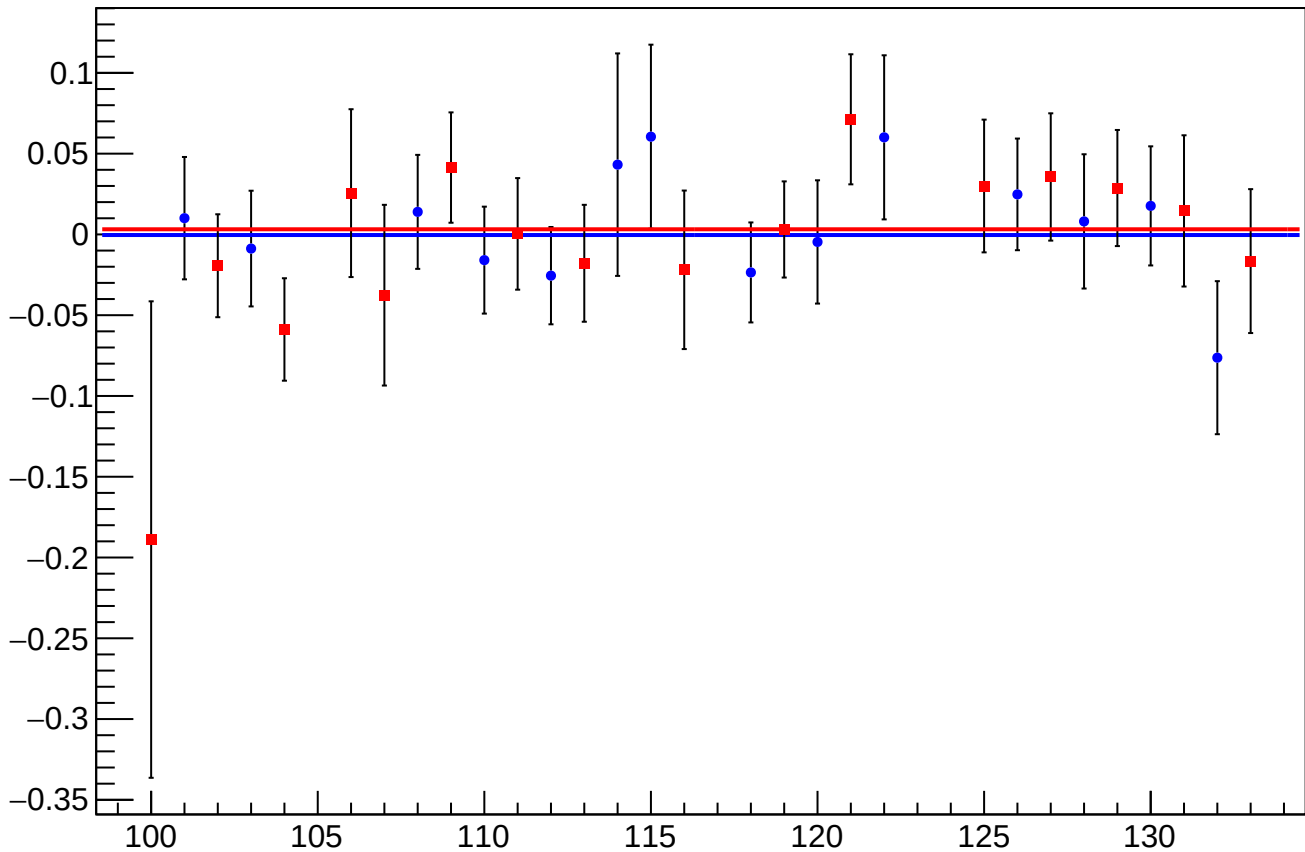
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 23.618 $\pm$ 0.005  $\chi^2$ /NDF: 360003.5/29

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

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



Right In:  $-0.000 \pm 0.010$   $\chi^2/\text{NDF}$ : 8.1/13

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

Right Out:  $0.003 \pm 0.010$   $\chi^2/\text{NDF}$ : 13.3/15

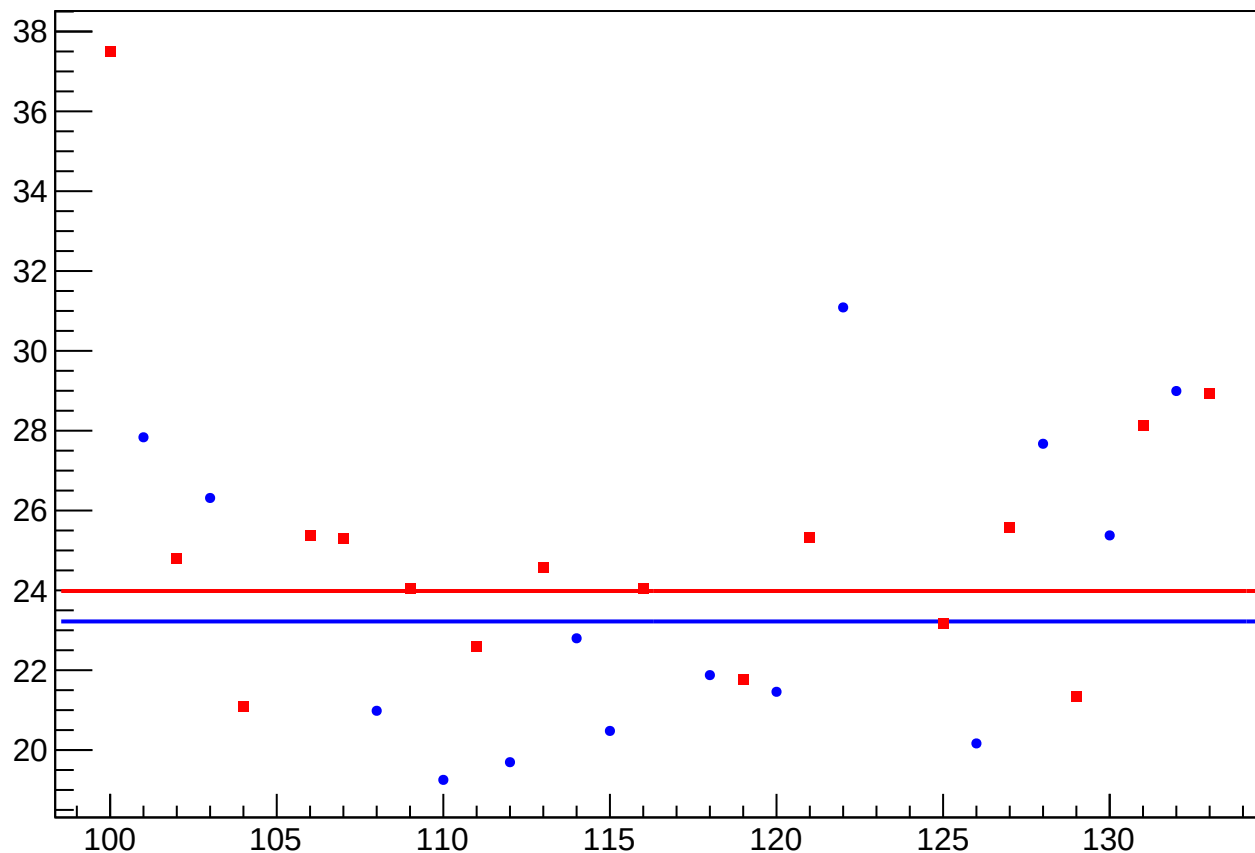
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $0.001 \pm 0.007$   $\chi^2/\text{NDF}$ : 21.5/29

- 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: 23.222+/-0.007  $\chi^2/\text{NDF}$ : 244636.5/13

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

Right Out: 23.984+/-0.007  $\chi^2/\text{NDF}$ : 109603.4/15

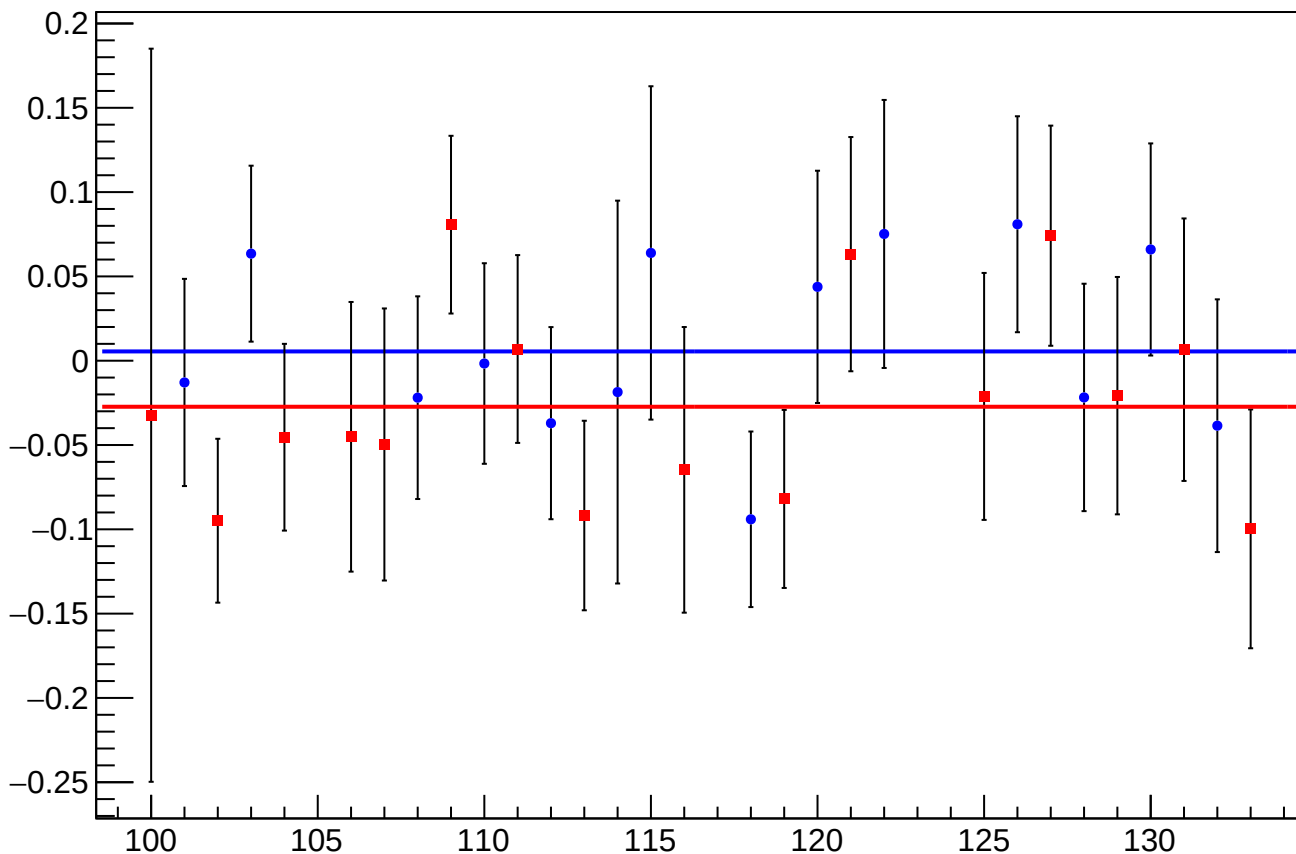
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 23.618+/-0.005  $\chi^2/\text{NDF}$ : 360003.5/29

- 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: 0.006 $\pm$ 0.017  $\chi^2$ /NDF: 10.1/13

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

Right Out: -0.027 $\pm$ 0.016  $\chi^2$ /NDF: 14.7/15

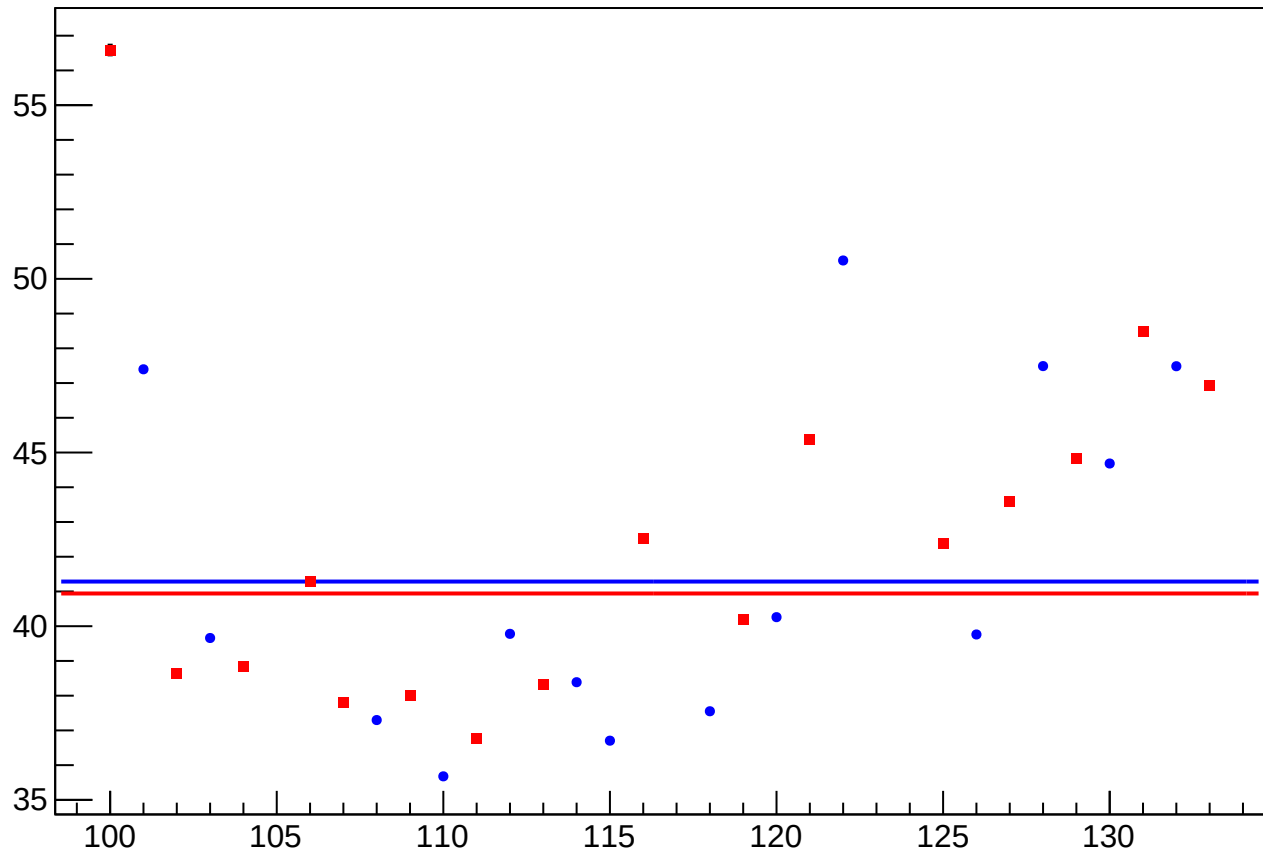
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.012 $\pm$ 0.012  $\chi^2$ /NDF: 26.6/29

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

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



Right In: 41.285 $\pm$ 0.012  $\chi^2$ /NDF: 130644.7/13

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

Right Out: 40.942 $\pm$ 0.012  $\chi^2$ /NDF: 95218.4/15

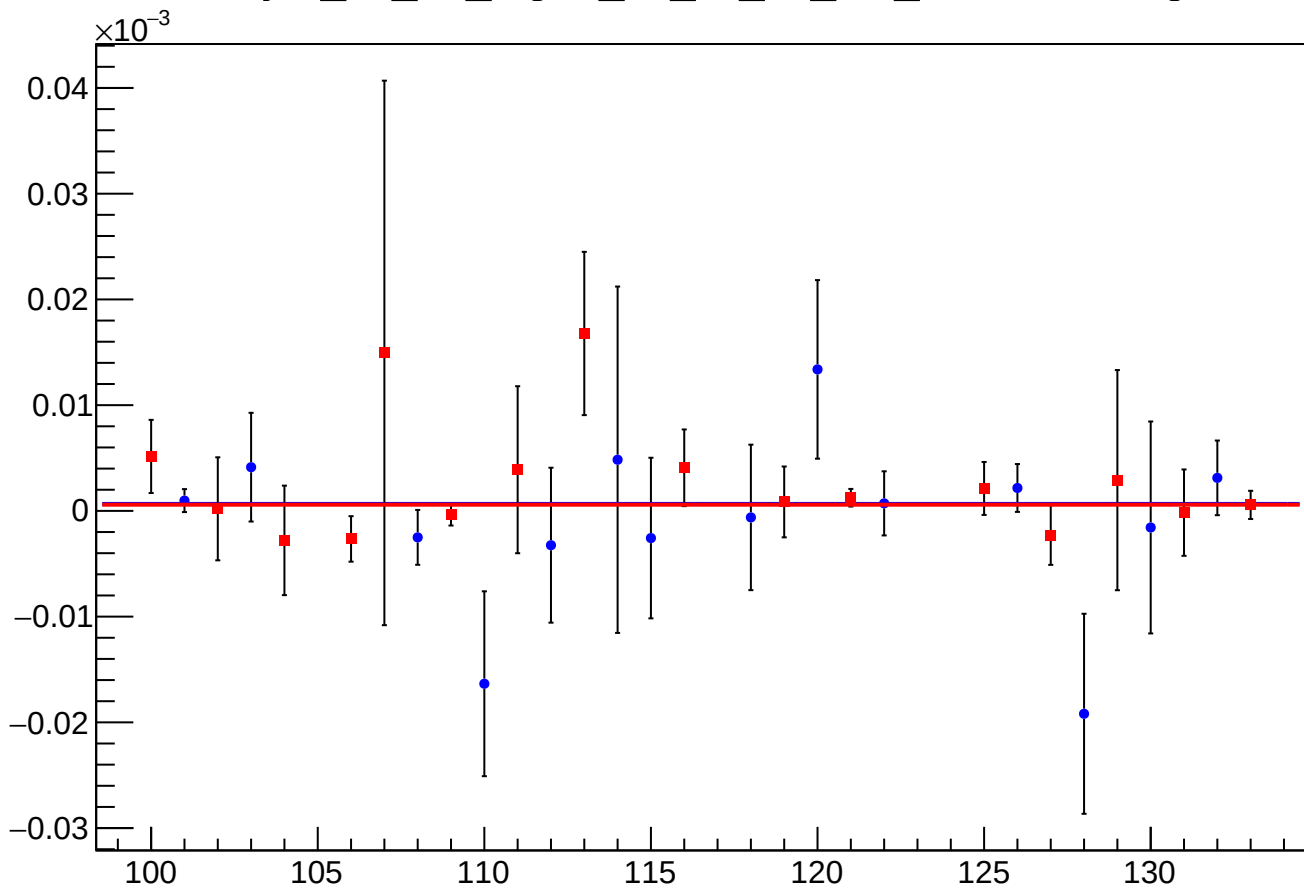
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 41.102 $\pm$ 0.008  $\chi^2$ /NDF: 226279.6/29

- 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: 14.0/13

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

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.3/15

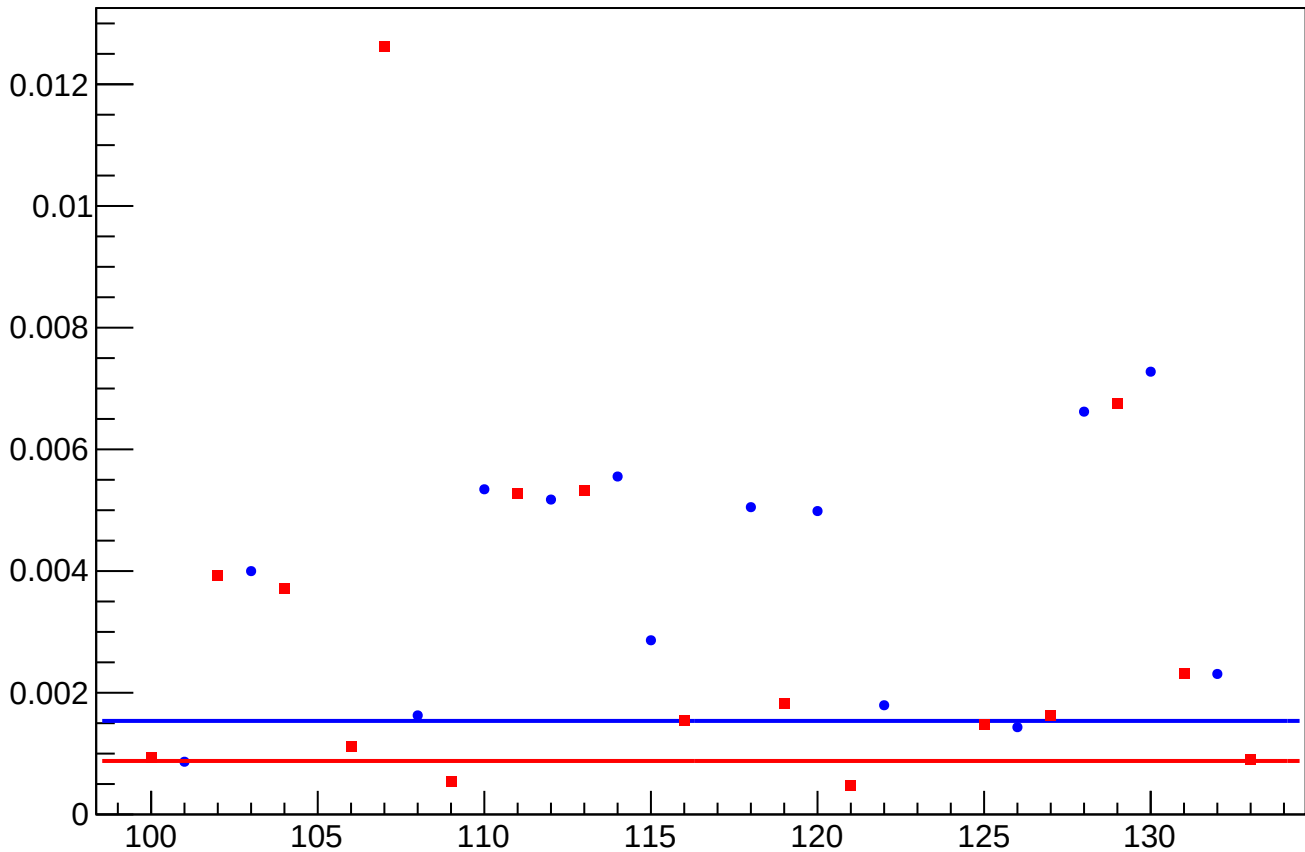
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 27.4/29

- 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: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4480038.1/13

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

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5167651.6/15

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

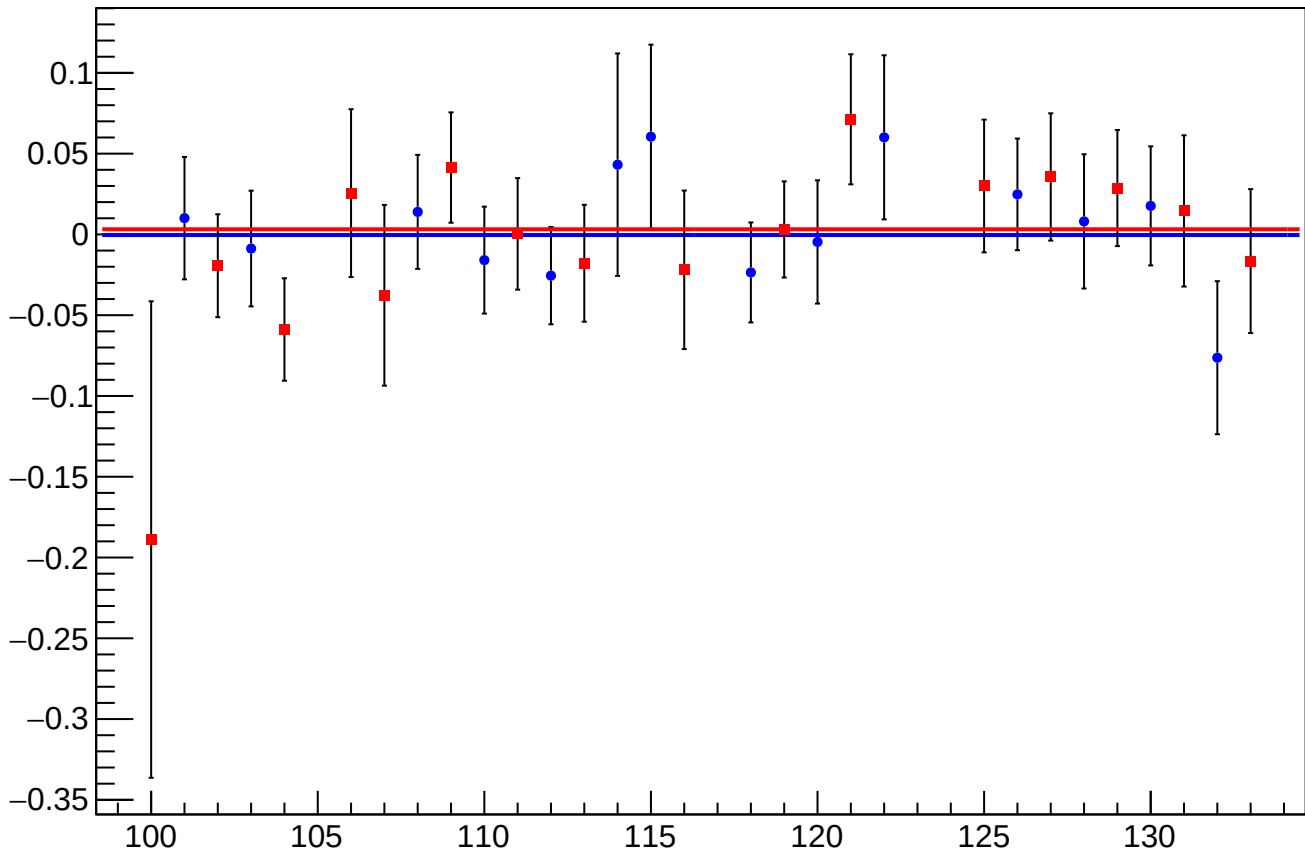
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 10601564.8/29

- 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: -0.000 $\pm$ 0.010  $\chi^2$ /NDF: 8.1/13

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

Right Out: 0.003 $\pm$ 0.010  $\chi^2$ /NDF: 13.3/15

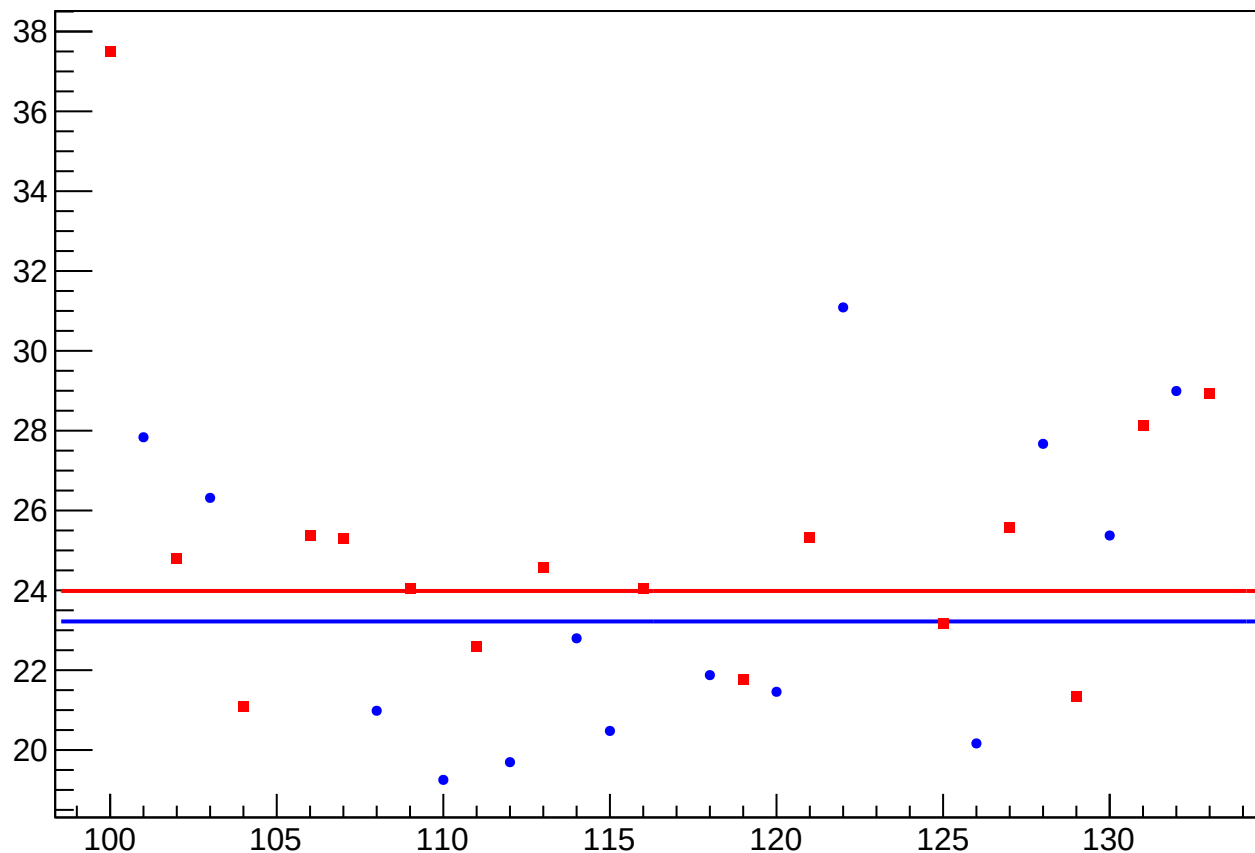
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 0.001 $\pm$ 0.007  $\chi^2$ /NDF: 21.5/29

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

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



Right In: 23.221 $\pm$ 0.007  $\chi^2$ /NDF: 244650.2/13

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

Right Out: 23.984 $\pm$ 0.007  $\chi^2$ /NDF: 109585.6/15

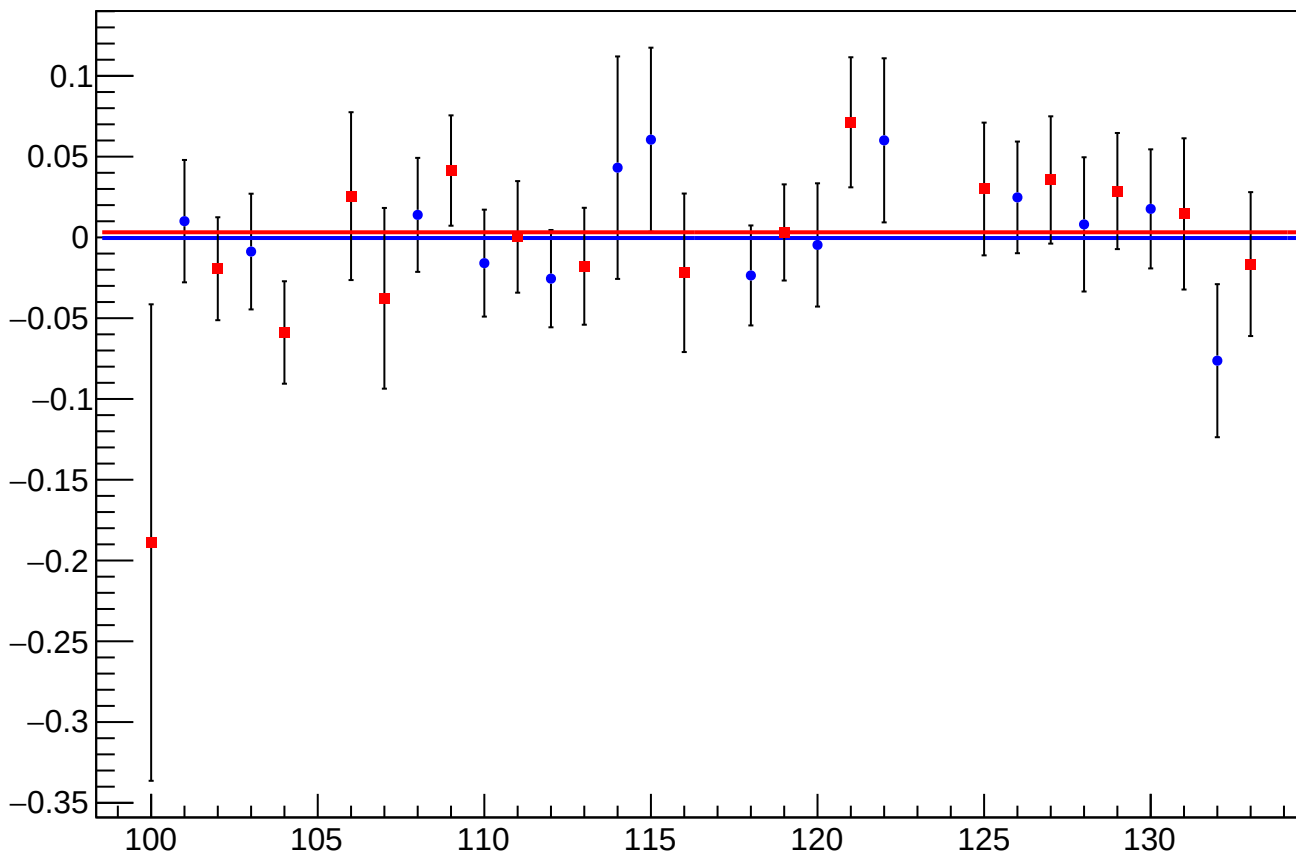
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 23.618 $\pm$ 0.005  $\chi^2$ /NDF: 360009.7/29

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

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



Right In: -0.000+/-0.010  $\chi^2/\text{NDF}$ : 8.1/13

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

Right Out: 0.003+/-0.010  $\chi^2/\text{NDF}$ : 13.3/15

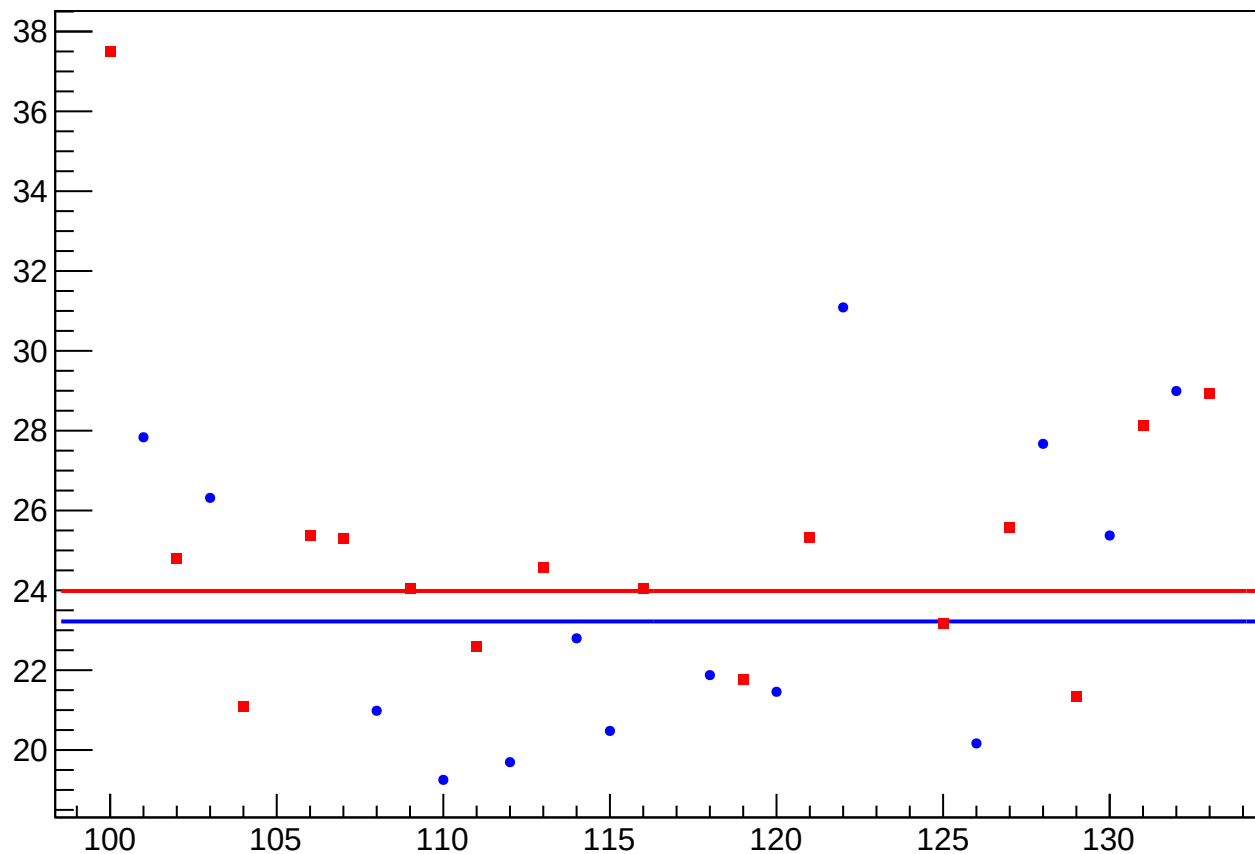
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.001+/-0.007  $\chi^2/\text{NDF}$ : 21.5/29

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

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



Right In: 23.221+/-0.007  $\chi^2/\text{NDF}$ : 244650.2/13

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

Right Out: 23.984+/-0.007  $\chi^2/\text{NDF}$ : 109585.6/15

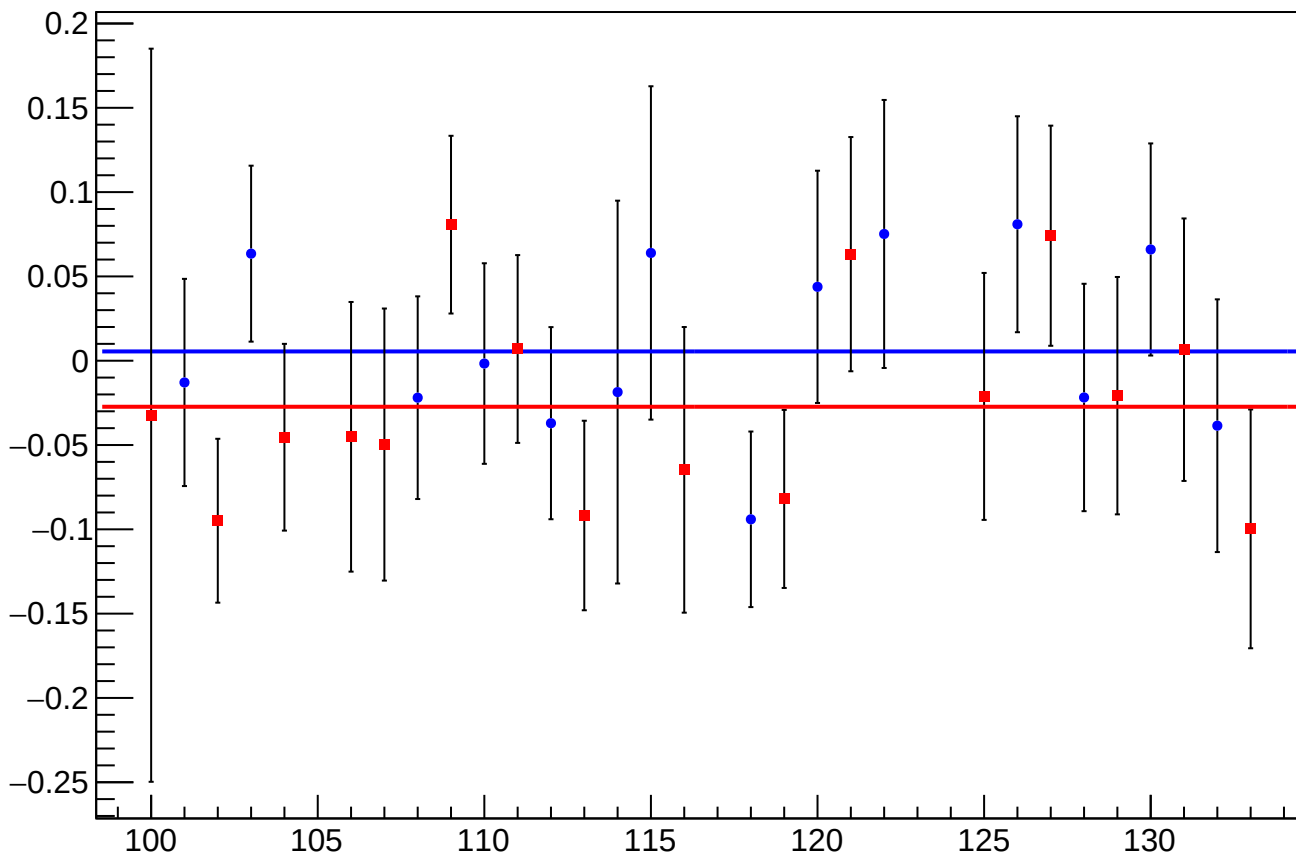
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 23.618+/-0.005  $\chi^2/\text{NDF}$ : 360009.7/29

- 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: 0.006+/-0.017  $\chi^2/\text{NDF}$ : 10.1/13

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

Right Out: -0.027+/-0.016  $\chi^2/\text{NDF}$ : 14.7/15

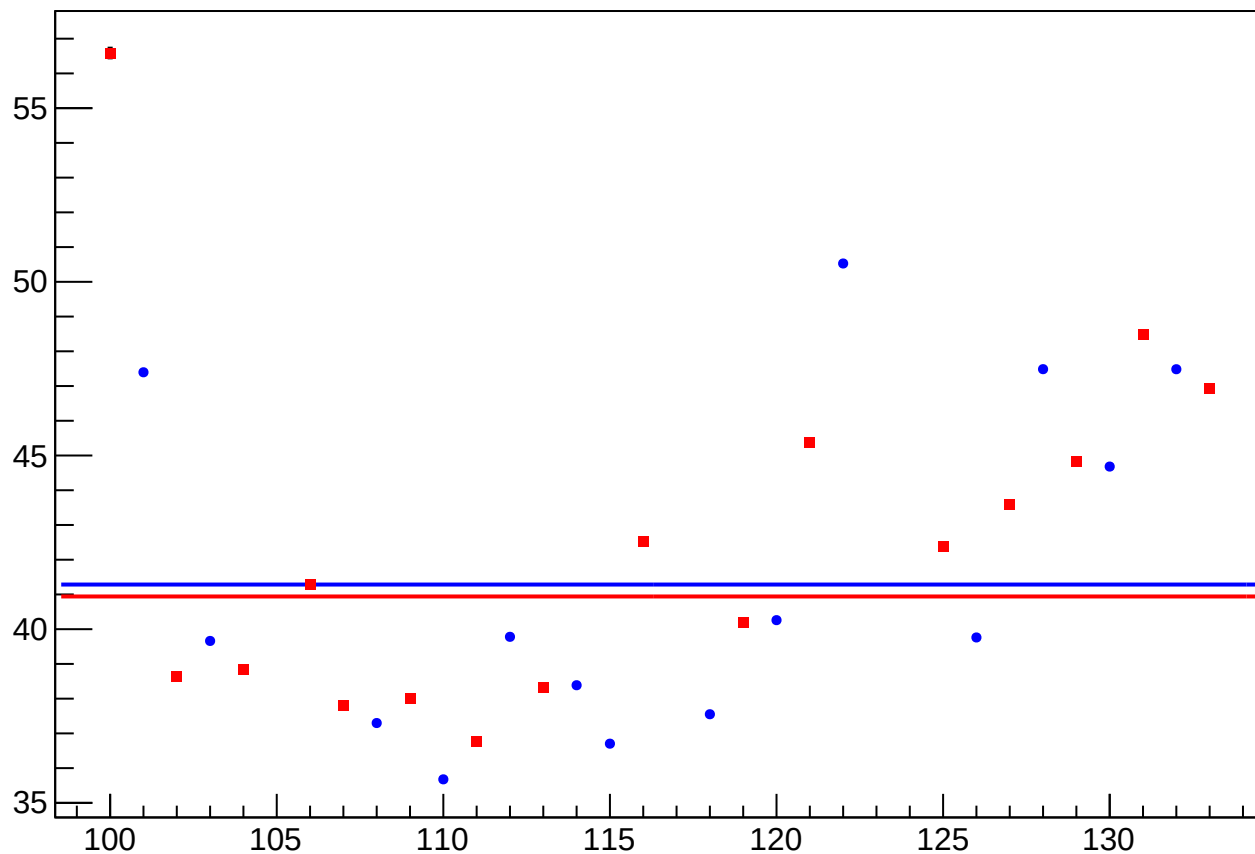
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.012+/-0.012  $\chi^2/\text{NDF}$ : 26.6/29

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

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



Right In: 41.285 $\pm$ 0.012  $\chi^2$ /NDF: 130627.4/13

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

Right Out: 40.942 $\pm$ 0.012  $\chi^2$ /NDF: 95206.5/15

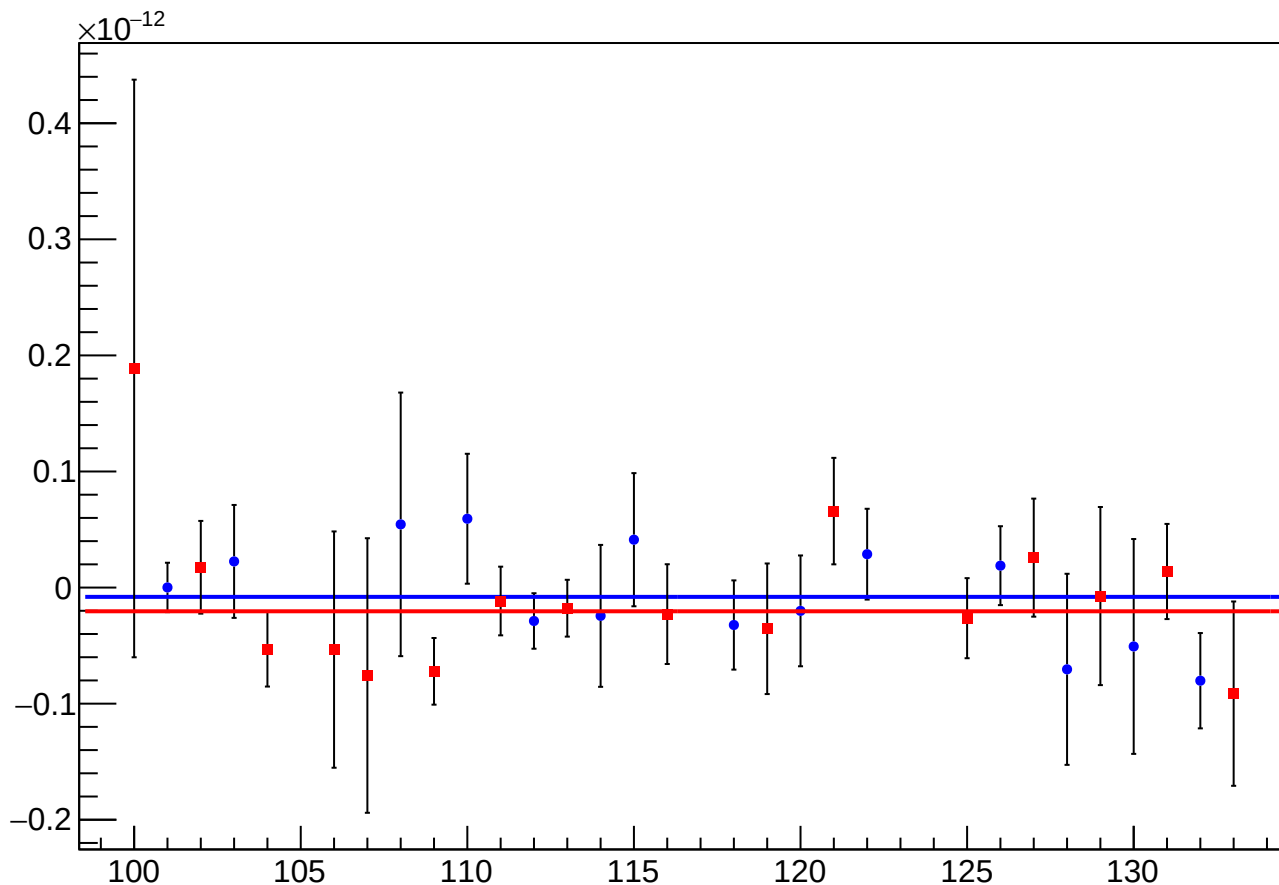
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 41.102 $\pm$ 0.008  $\chi^2$ /NDF: 226250.1/29

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

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



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.7/13

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

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.3/15

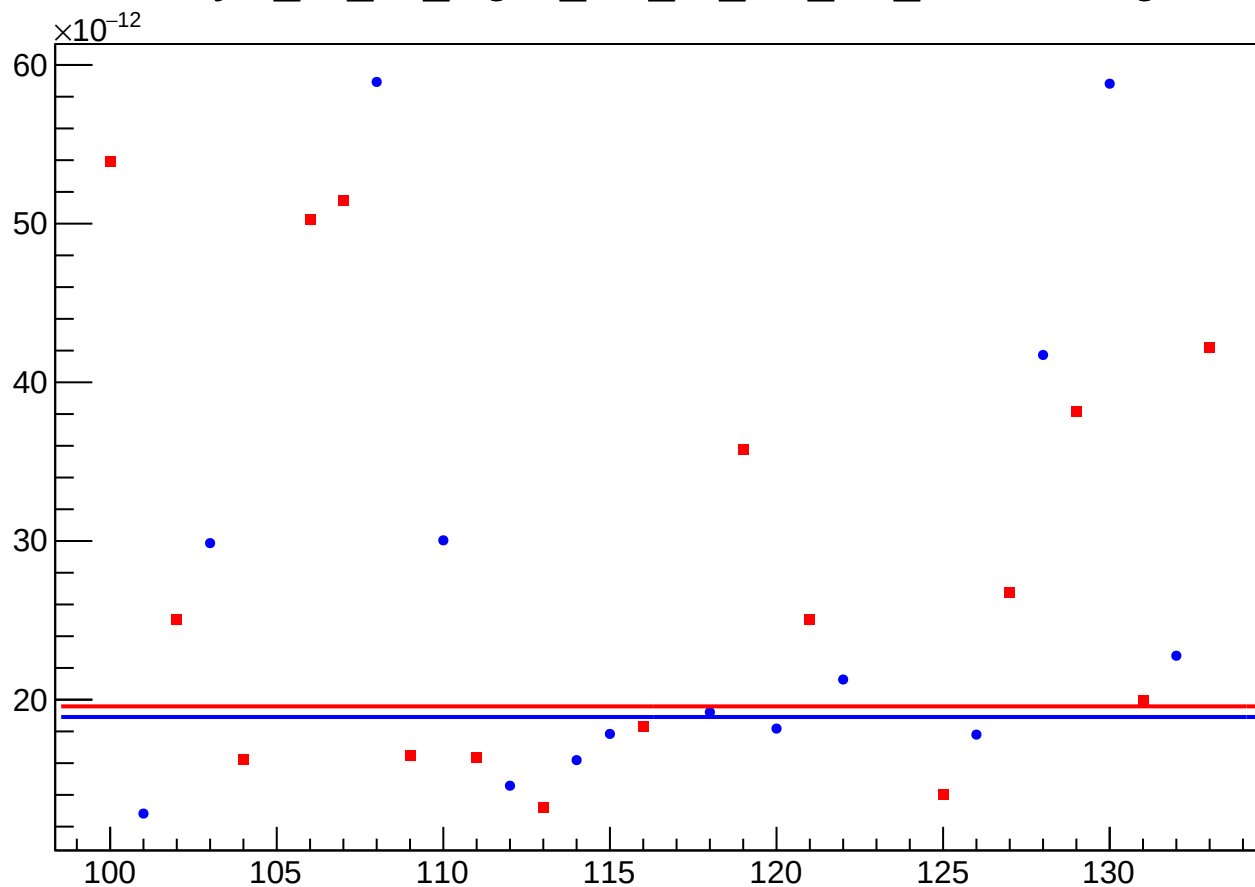
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 22.7/29

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

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



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1216613.1/13

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1174873.1/15

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

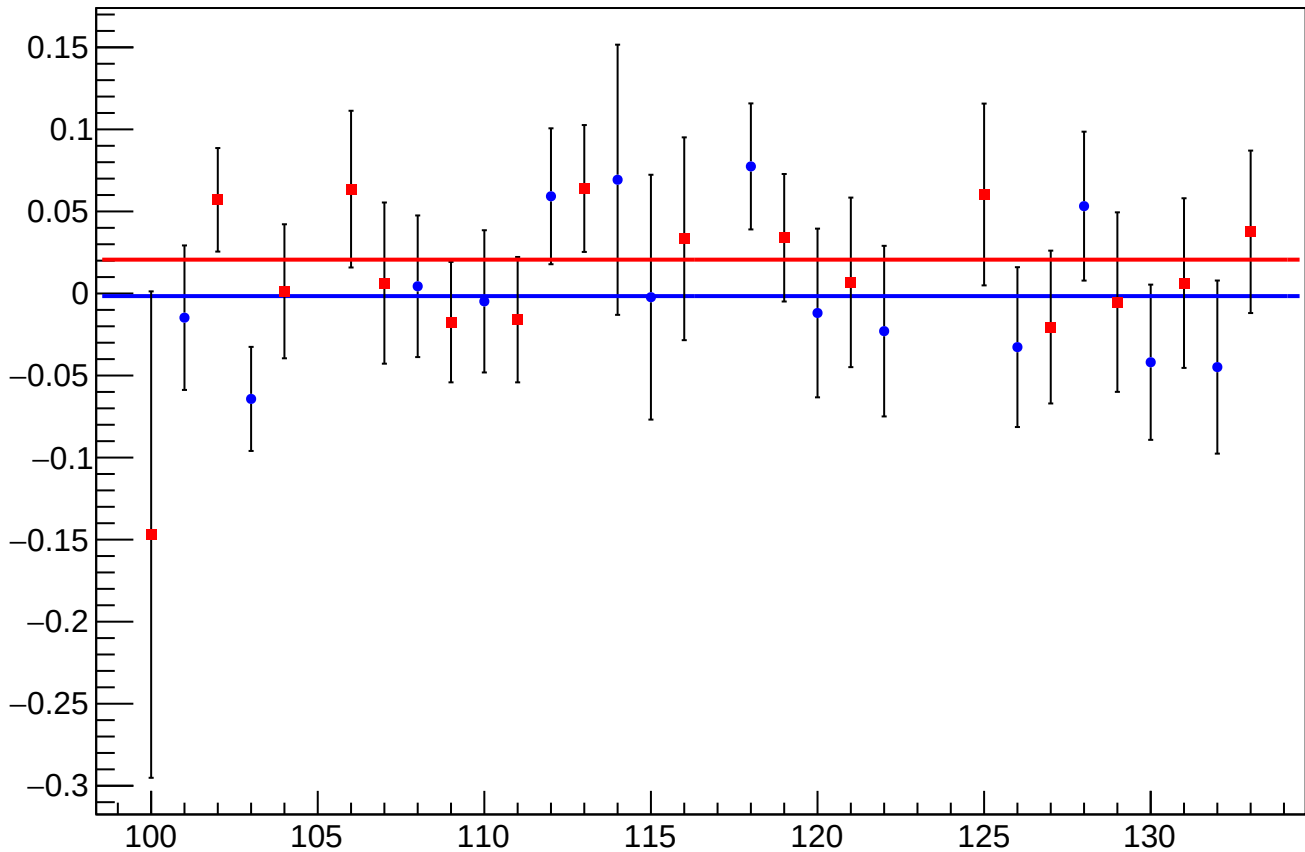
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2395553.7/29

- 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: -0.002 $\pm$ 0.012  $\chi^2$ /NDF: 14.6/13

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

Right Out: 0.021 $\pm$ 0.011  $\chi^2$ /NDF: 8.9/15

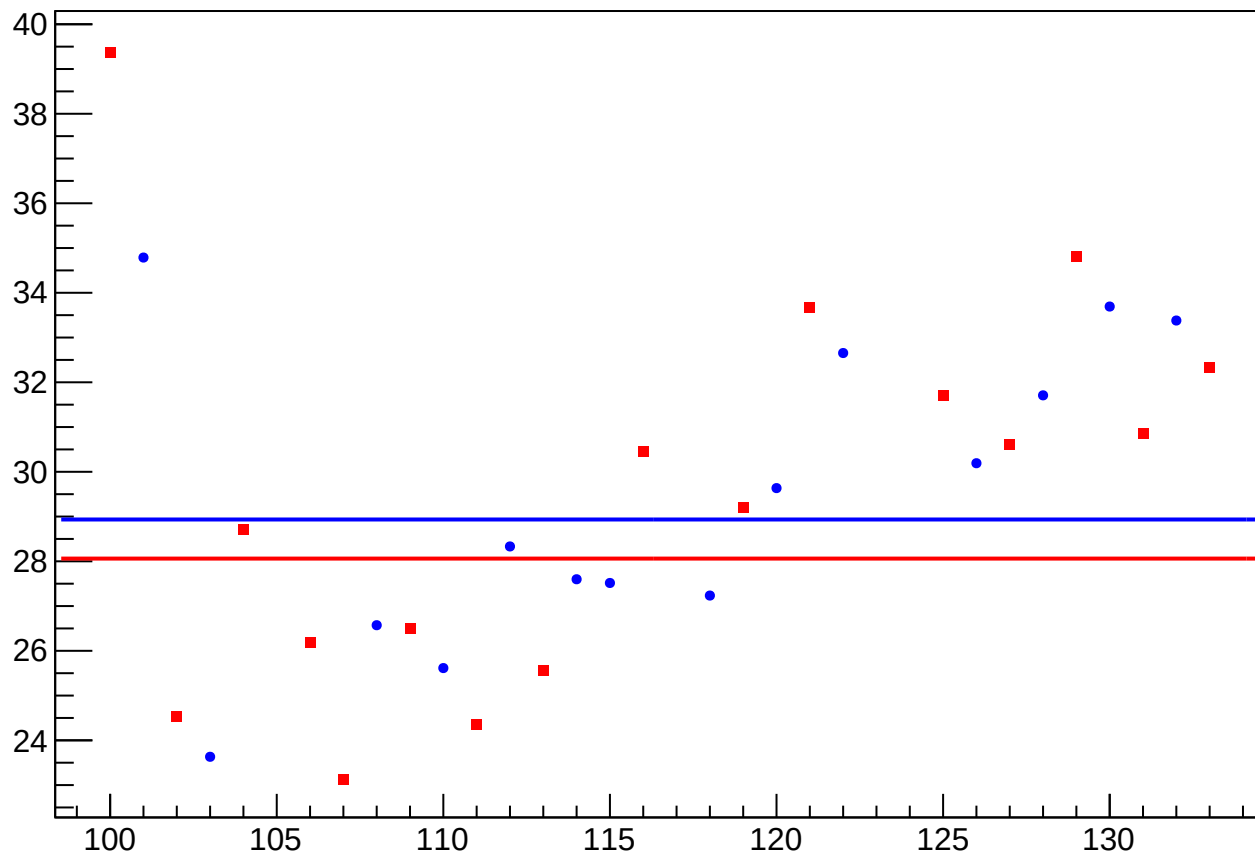
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 0.010 $\pm$ 0.008  $\chi^2$ /NDF: 25.3/29

- 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: 28.934+/-0.009  $\chi^2/\text{NDF}$ : 168445.0/13

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

Right Out: 28.061+/-0.008  $\chi^2/\text{NDF}$ : 185558.7/15

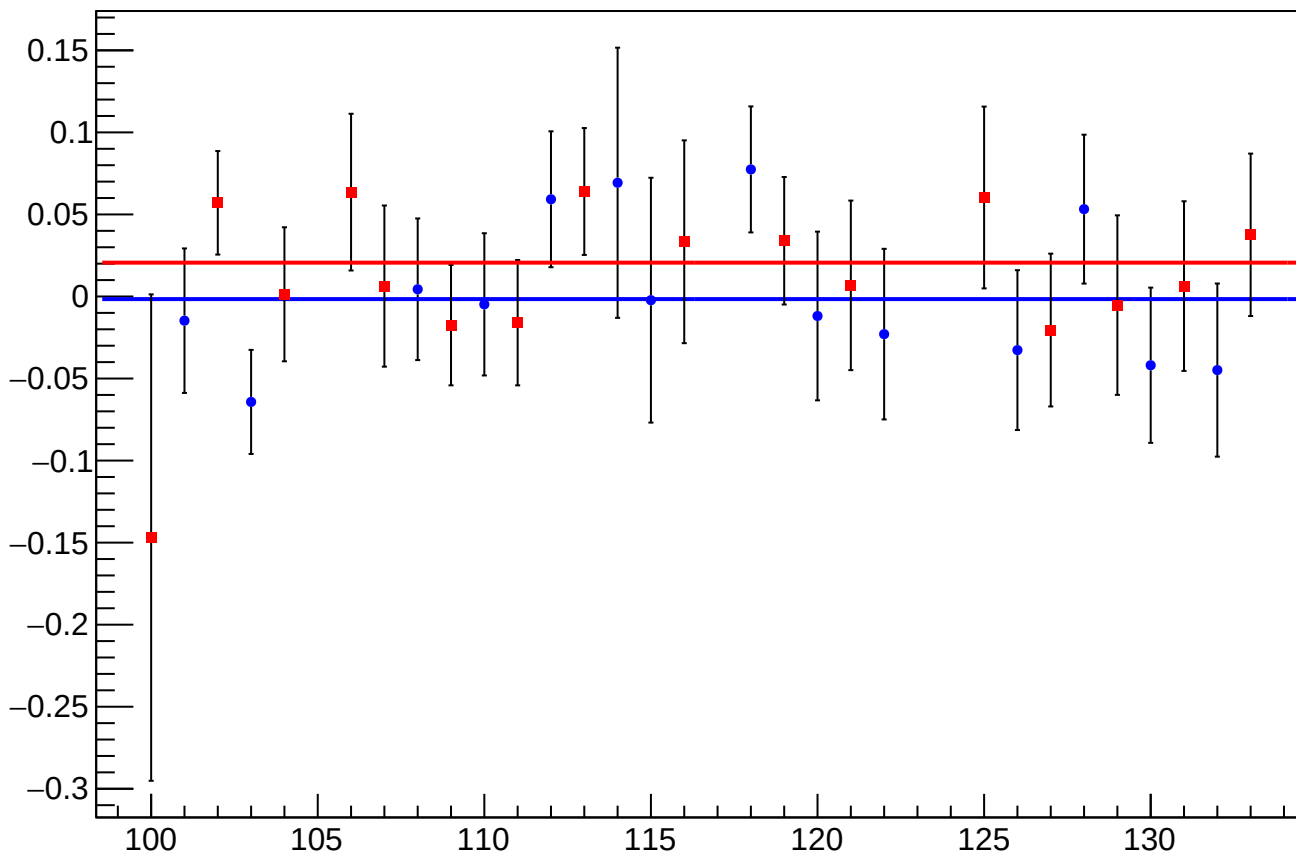
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 28.462+/-0.006  $\chi^2/\text{NDF}$ : 359473.1/29

- 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: -0.002 $\pm$ 0.012  $\chi^2$ /NDF: 14.6/13

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

Right Out: 0.021 $\pm$ 0.011  $\chi^2$ /NDF: 8.9/15

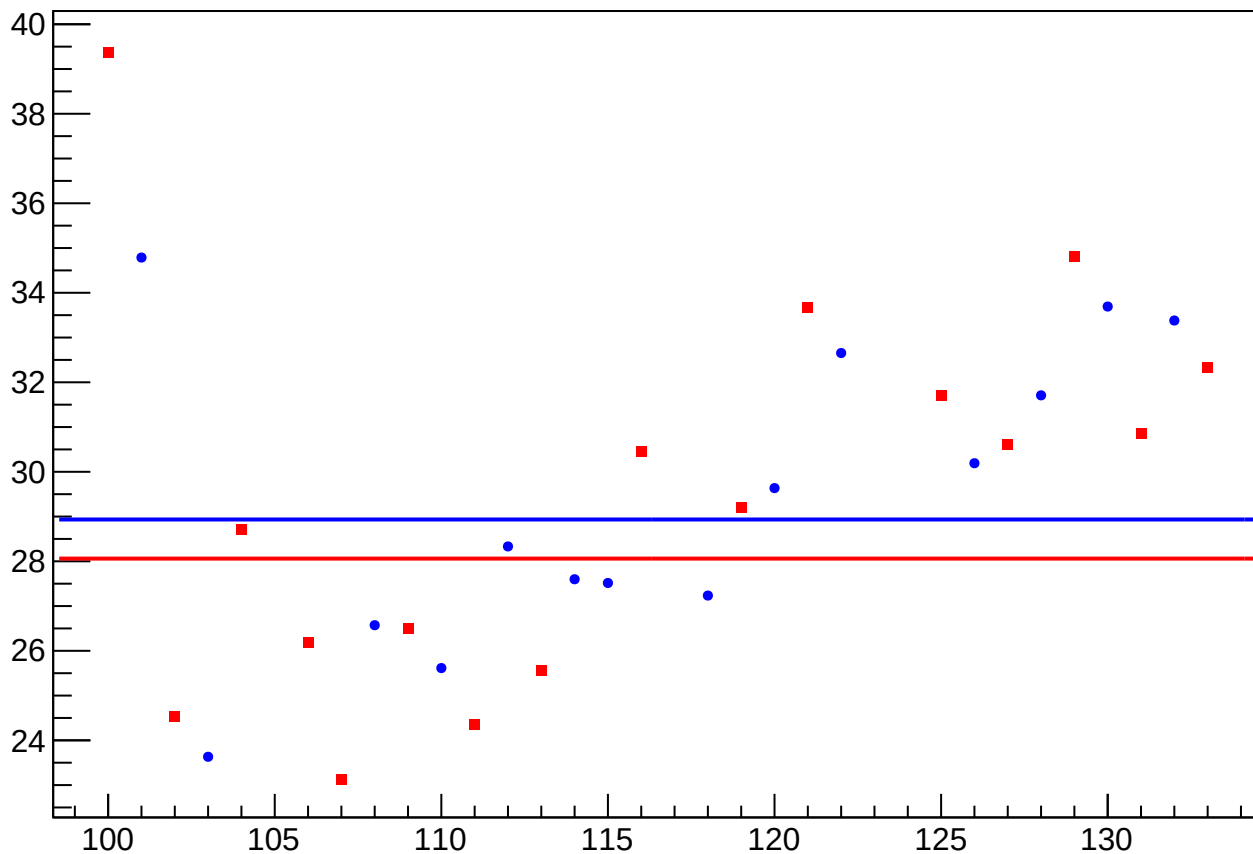
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 0.010 $\pm$ 0.008  $\chi^2$ /NDF: 25.3/29

- 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: 28.934+/-0.009  $\chi^2/\text{NDF}$ : 168445.0/13

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

Right Out: 28.061+/-0.008  $\chi^2/\text{NDF}$ : 185558.7/15

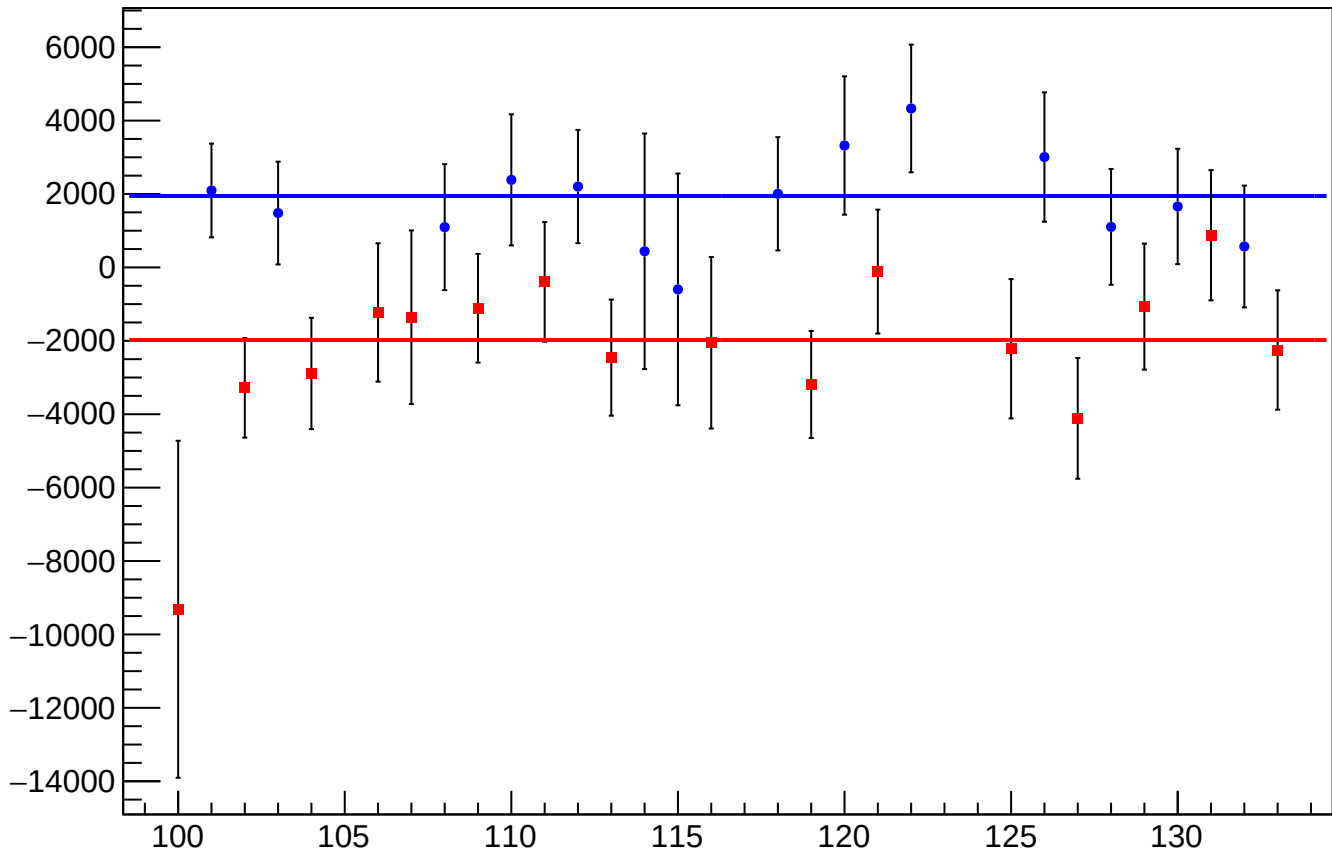
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 28.462+/-0.006  $\chi^2/\text{NDF}$ : 359473.1/29

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

# reg\_asym\_usl\_mean vs Slug



Right In: 1946.210+/-450.934  $\chi^2/\text{NDF}$ : 5.1/13

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

Right Out: -1979.021+/-430.085  $\chi^2/\text{NDF}$ : 12.0/15

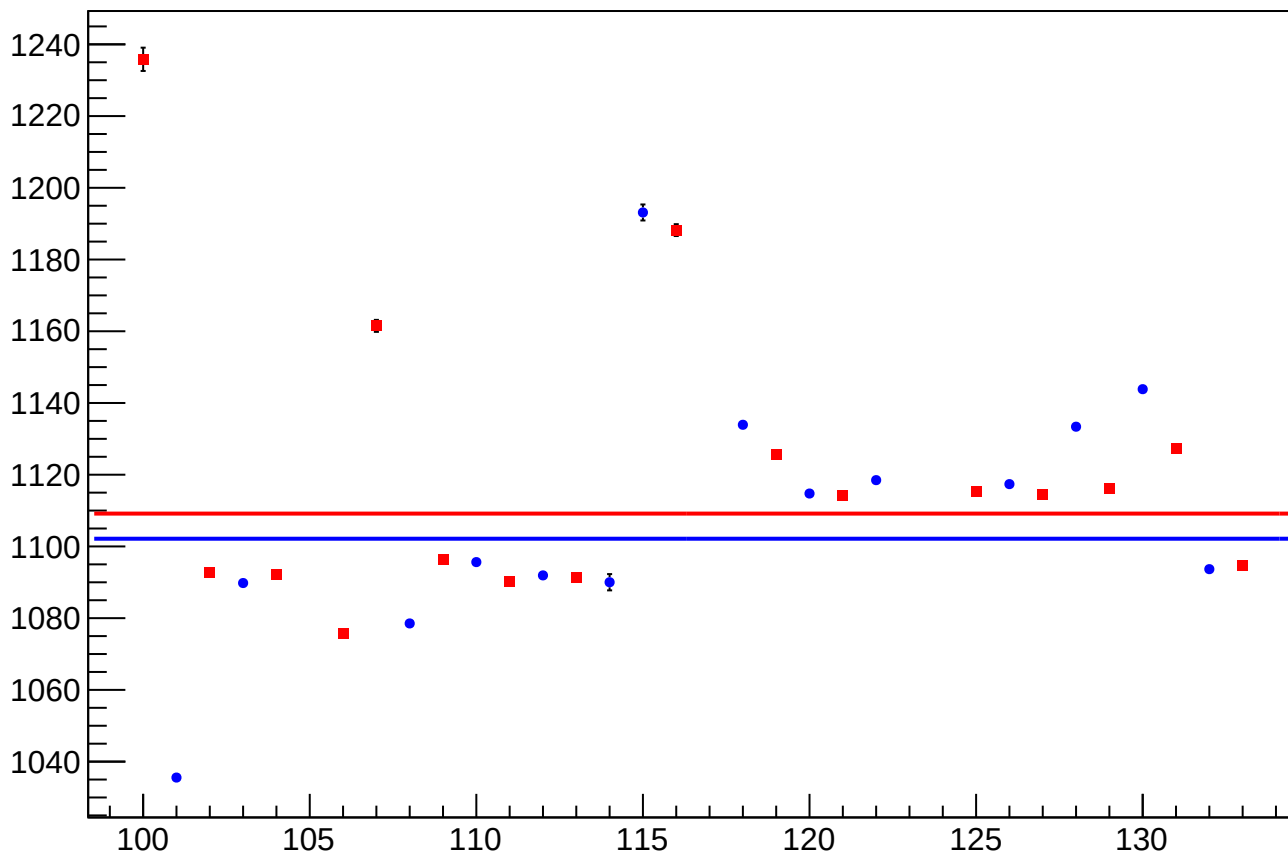
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -109.242+/-311.226  $\chi^2/\text{NDF}$ : 56.7/29

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

# reg\_asym\_usl\_rms vs Slug



Right In: 1102.150+/-0.319  $\chi^2/\text{NDF}$ : 11284.2/13

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

Right Out: 1109.157+/-0.304  $\chi^2/\text{NDF}$ : 7348.7/15

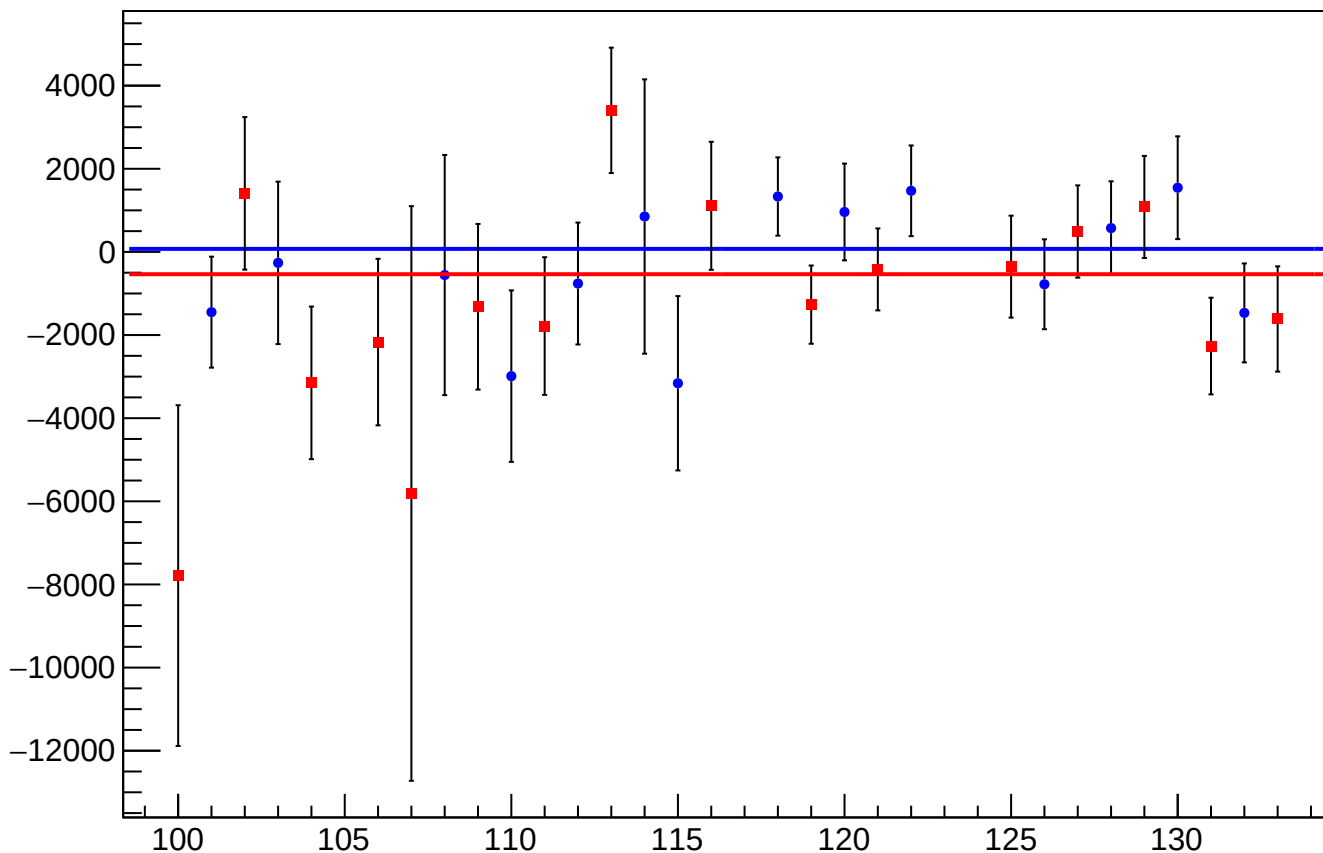
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1105.819+/-0.220  $\chi^2/\text{NDF}$ : 18885.7/29

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

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



Right In: 73.488+/-361.006  $\chi^2/\text{NDF}$ : 14.3/13

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

Right Out: -536.573+/-352.194  $\chi^2/\text{NDF}$ : 22.4/15

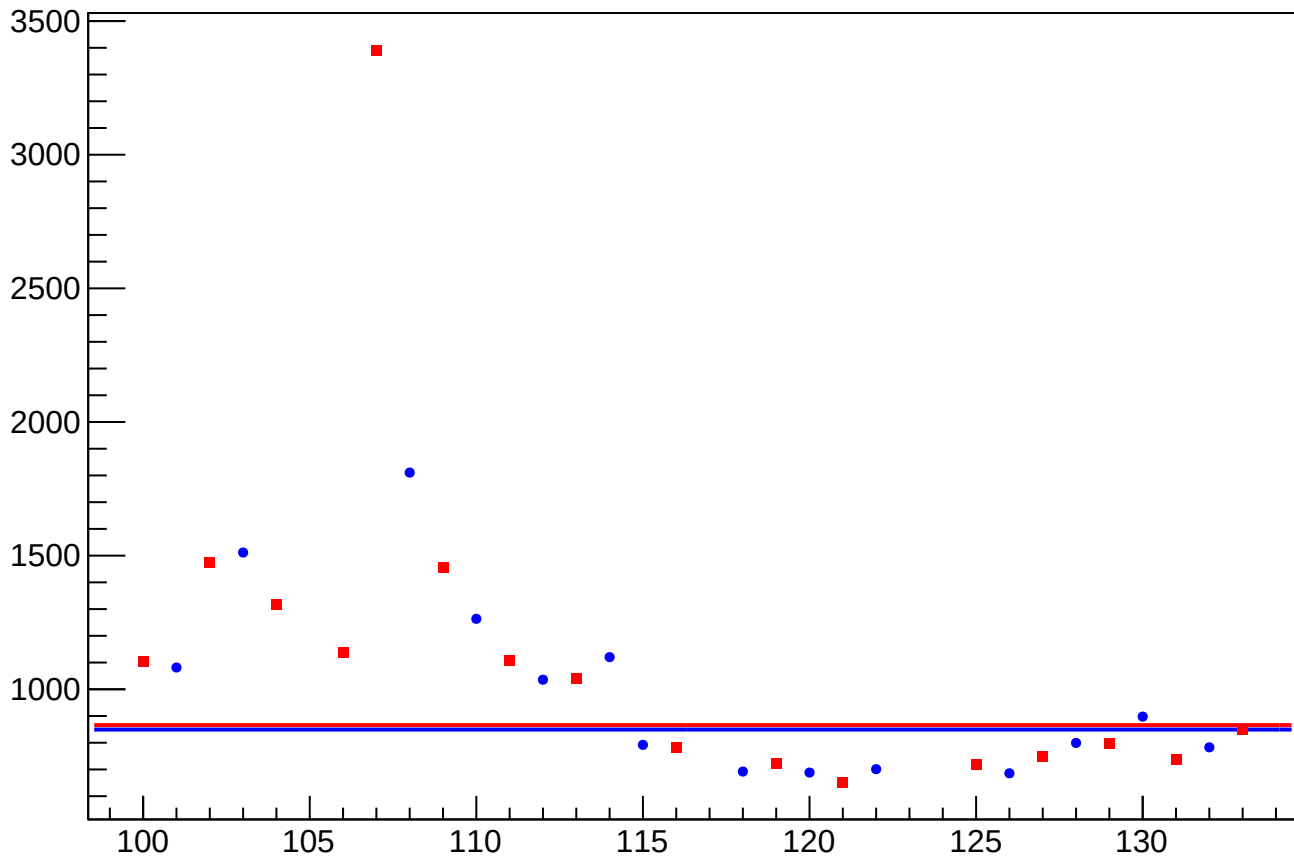
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -239.079+/-252.096  $\chi^2/\text{NDF}$ : 38.1/29

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

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



Right In: 849.246+/-0.255  $\chi^2/\text{NDF}$ : 829744.3/13

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

Right Out: 865.920+/-0.249  $\chi^2/\text{NDF}$ : 1122712.3/15

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

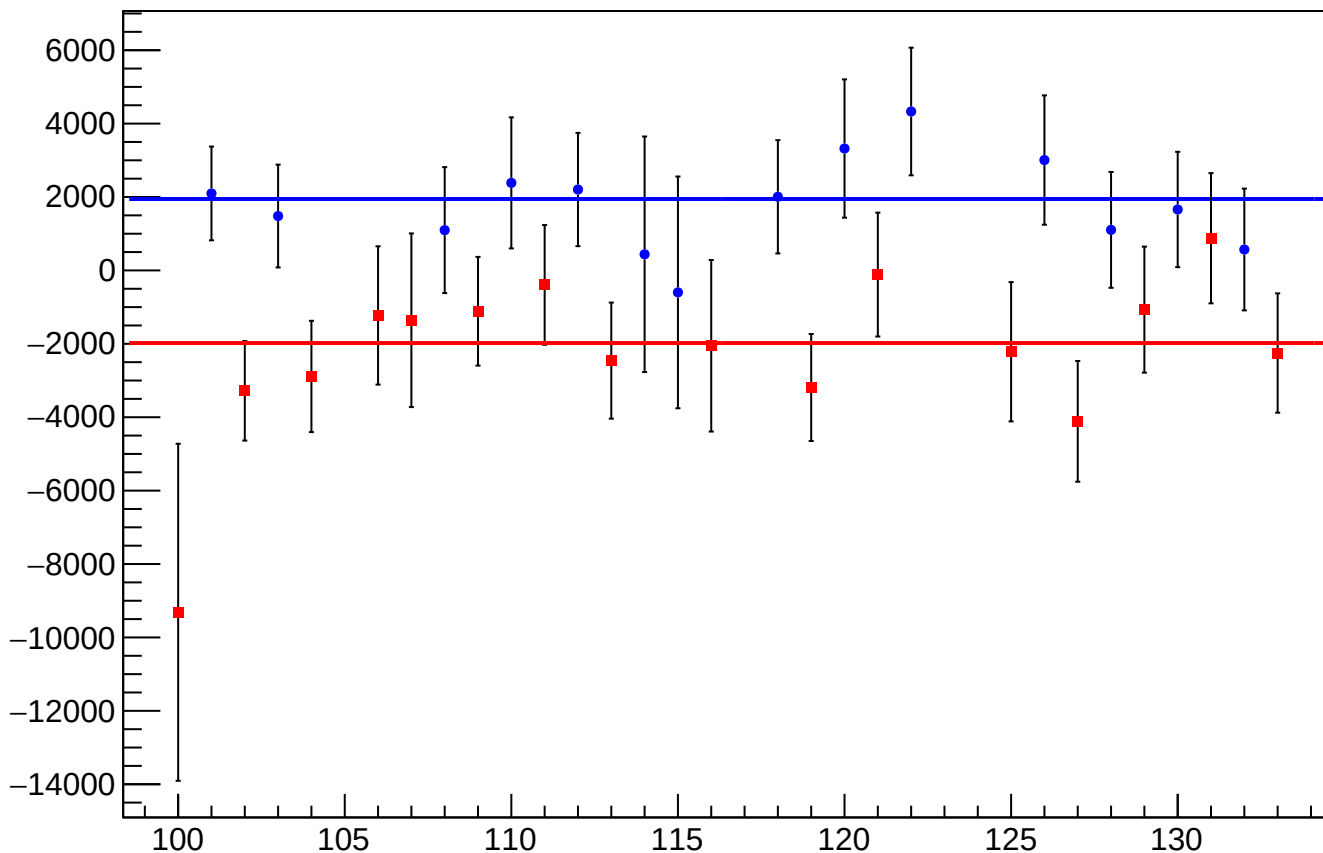
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 857.789+/-0.178  $\chi^2/\text{NDF}$ : 1954642.8/29

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



# cor\_asym\_usl\_mean vs Slug



Right In: 1946.210+/-450.934  $\chi^2/\text{NDF}$ : 5.1/13

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

Right Out: -1979.021+/-430.085  $\chi^2/\text{NDF}$ : 12.0/15

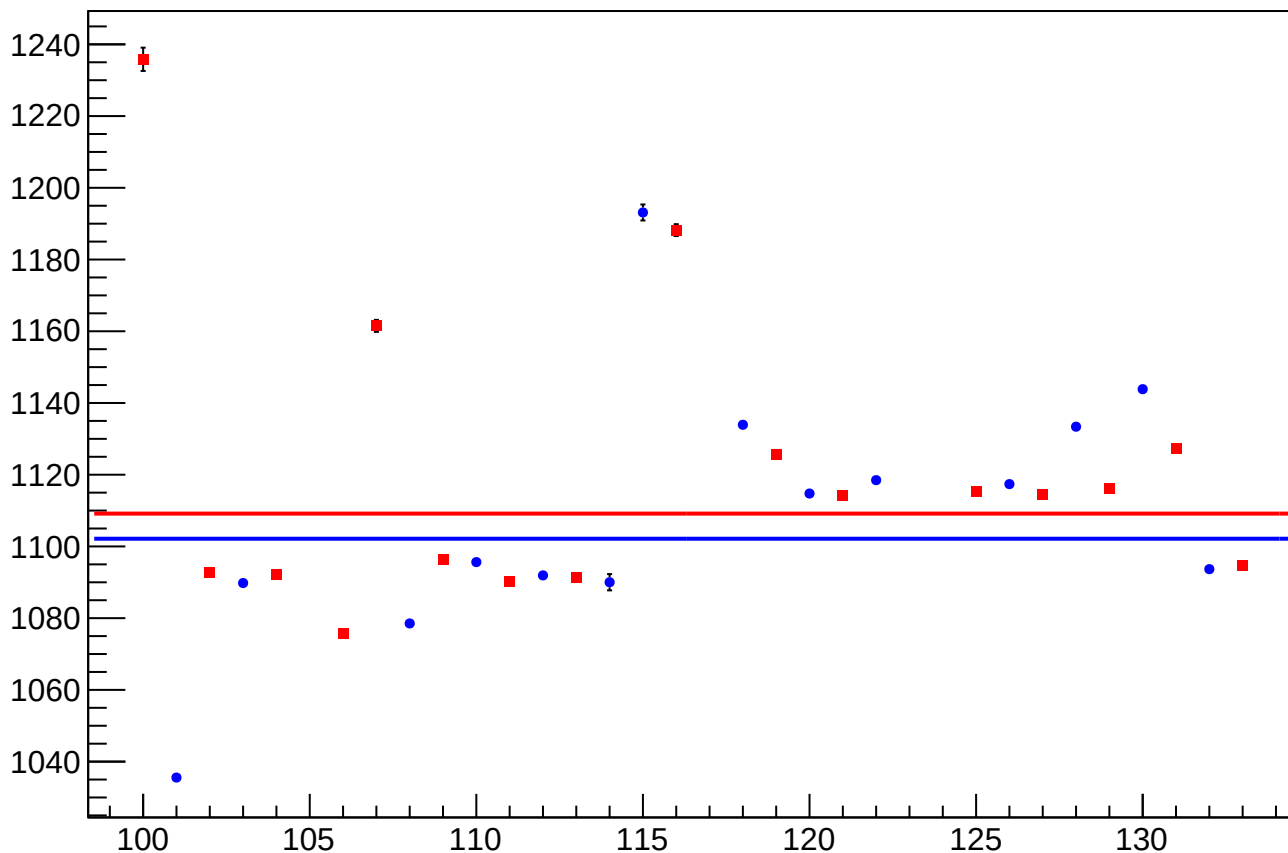
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -109.242+/-311.226  $\chi^2/\text{NDF}$ : 56.7/29

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

# cor\_asym\_usl\_rms vs Slug



Right In: 1102.150+/-0.319  $\chi^2/\text{NDF}$ : 11284.2/13

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

Right Out: 1109.157+/-0.304  $\chi^2/\text{NDF}$ : 7348.7/15

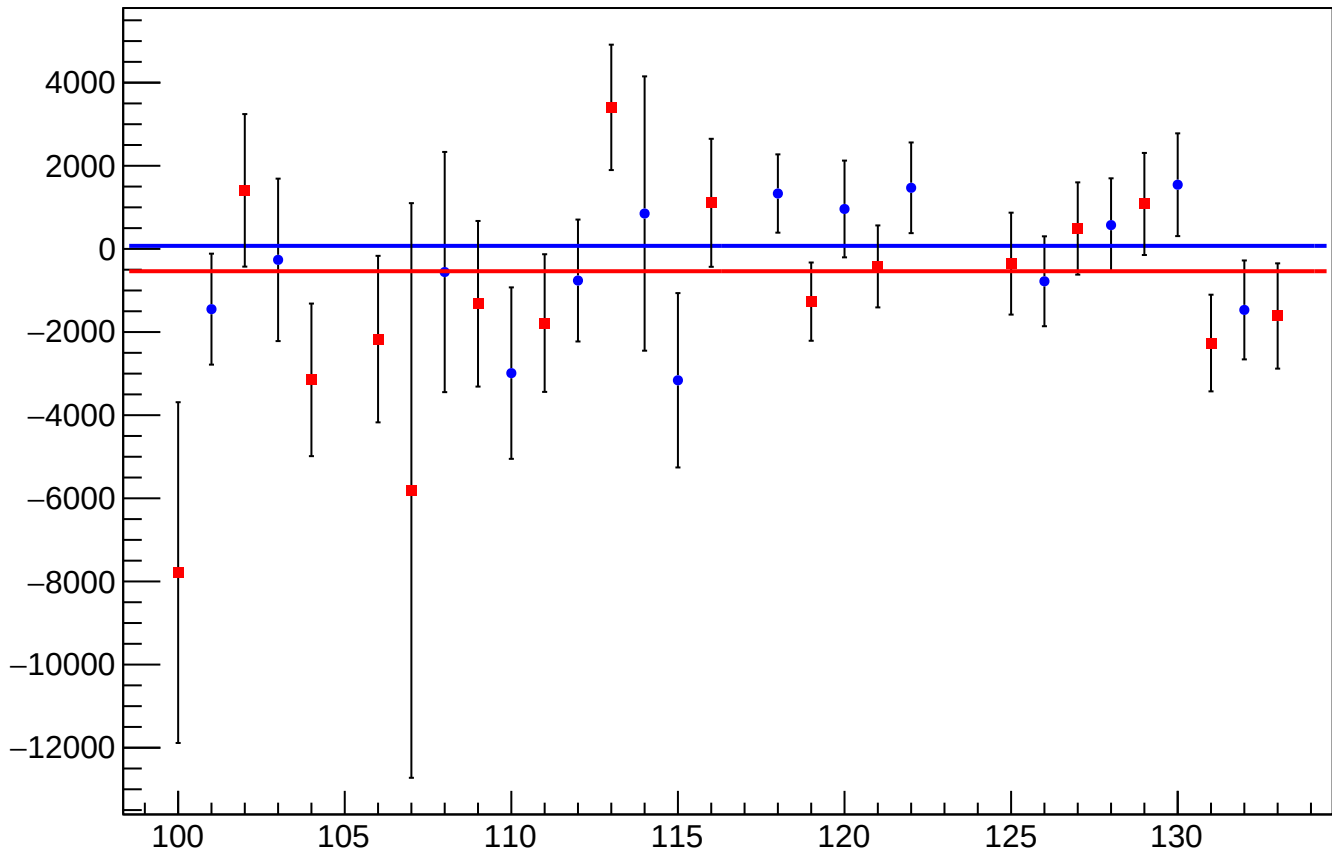
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1105.819+/-0.220  $\chi^2/\text{NDF}$ : 18885.7/29

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

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



Right In: 73.488+/-361.006  $\chi^2/\text{NDF}$ : 14.3/13

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

Right Out: -536.573+/-352.194  $\chi^2/\text{NDF}$ : 22.4/15

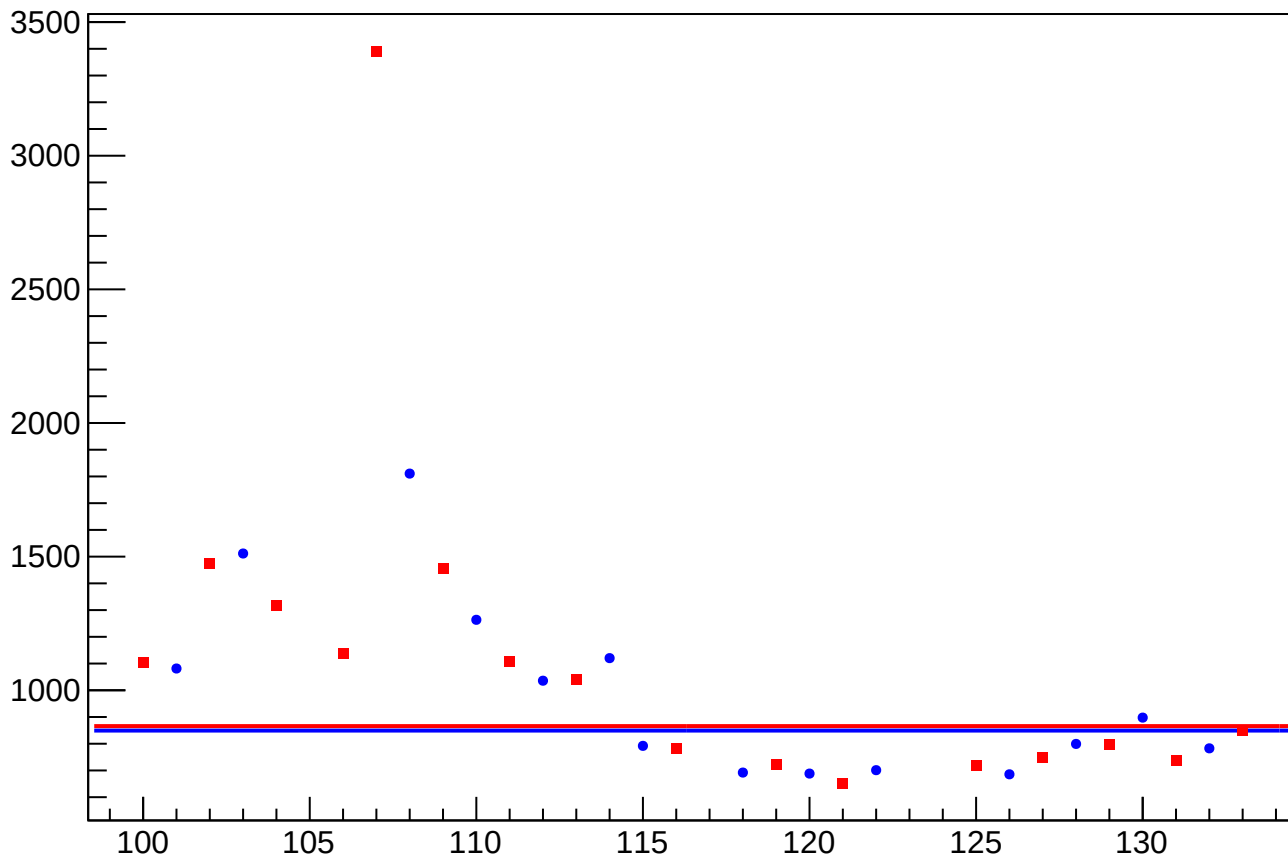
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -239.079+/-252.096  $\chi^2/\text{NDF}$ : 38.1/29

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

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



Right In: 849.246+/-0.255  $\chi^2/\text{NDF}$ : 829744.3/13

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

Right Out: 865.920+/-0.249  $\chi^2/\text{NDF}$ : 1122712.3/15

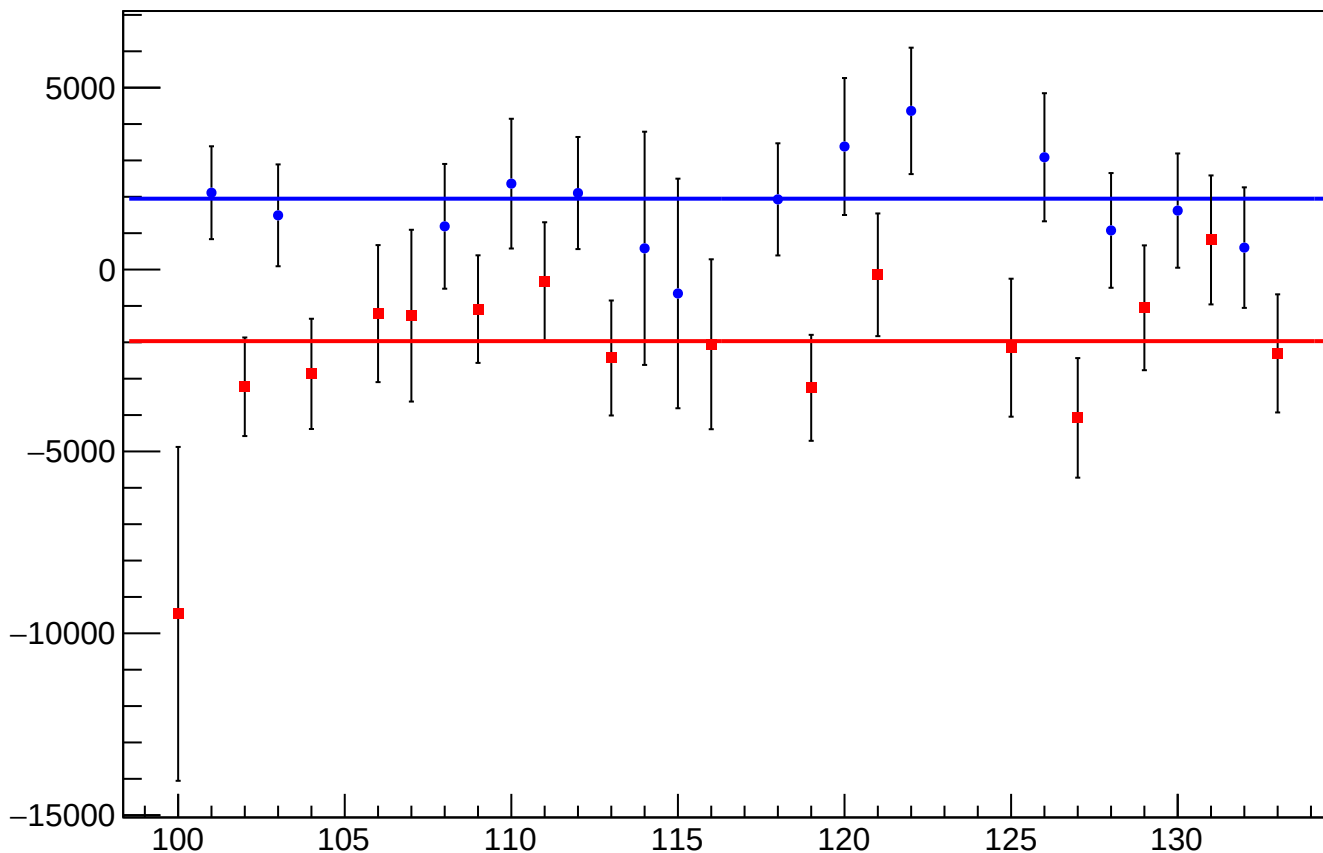
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 857.789+/-0.178  $\chi^2/\text{NDF}$ : 1954642.8/29

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

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



Right In: 1948.214+/-450.570  $\chi^2/\text{NDF}$ : 5.2/13

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

Right Out: -1967.724+/-429.730  $\chi^2/\text{NDF}$ : 12.0/15

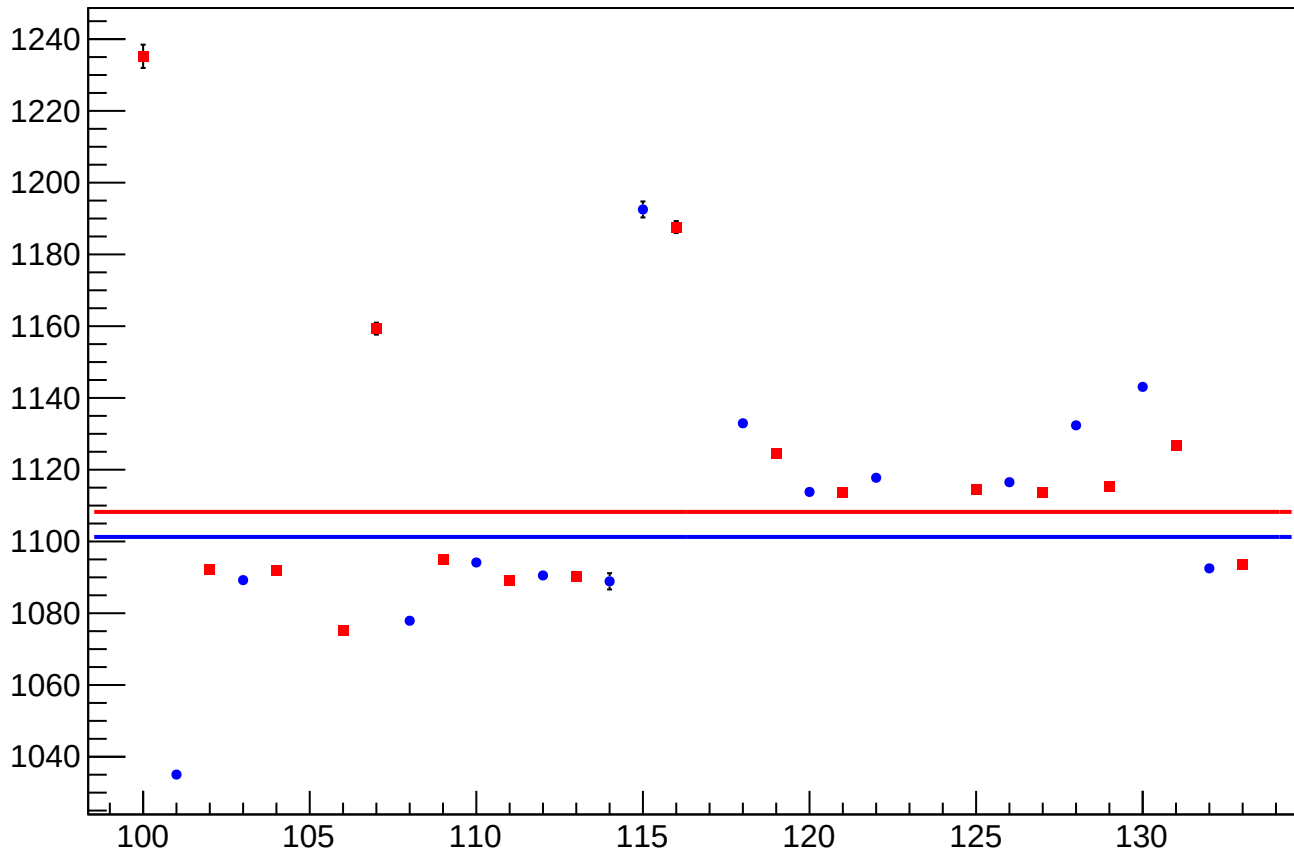
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -102.409+/-310.972  $\chi^2/\text{NDF}$ : 56.7/29

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

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



Right In: 1101.263 $\pm$ 0.319  $\chi^2$ /NDF: 11249.3/13

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

Right Out: 1108.242 $\pm$ 0.304  $\chi^2$ /NDF: 7337.2/15

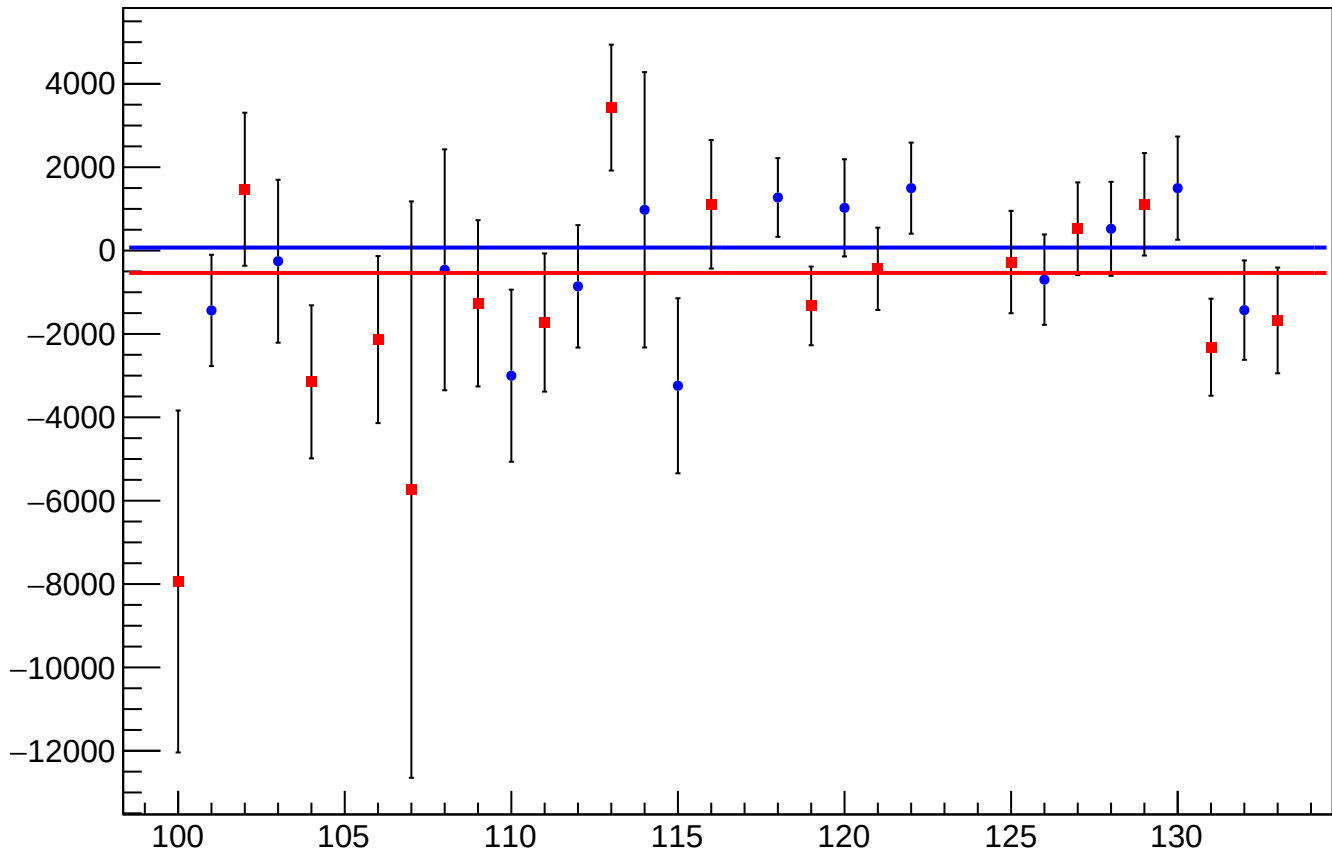
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1104.917 $\pm$ 0.220  $\chi^2$ /NDF: 18837.8/29

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

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



Right In: 72.541+/-361.591  $\chi^2$ /NDF: 14.1/13

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

Right Out: -536.025+/-352.726  $\chi^2$ /NDF: 23.0/15

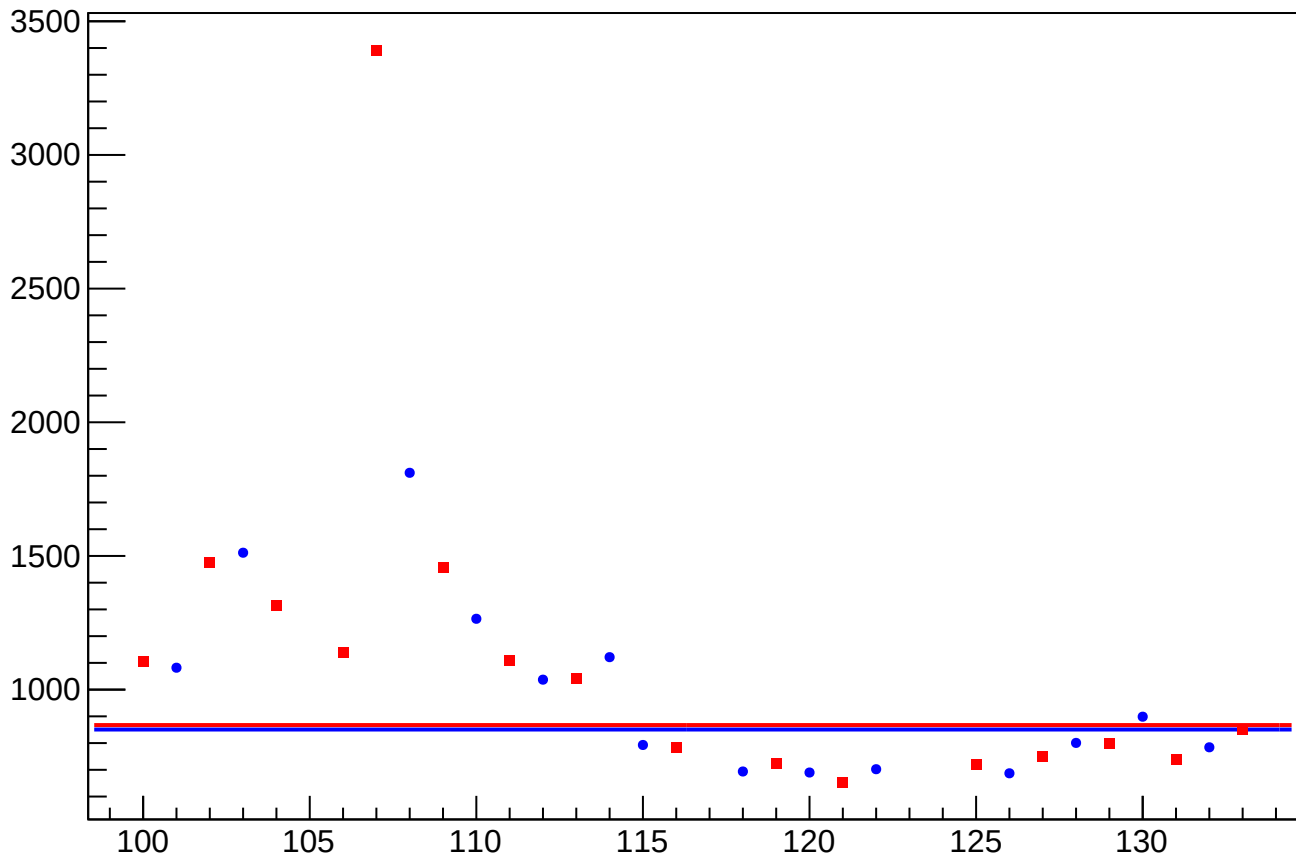
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -239.293+/-252.491  $\chi^2$ /NDF: 38.5/29

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

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



Right In: 850.748+/-0.256  $\chi^2/\text{NDF}$ : 826590.9/13

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

Right Out: 867.360+/-0.249  $\chi^2/\text{NDF}$ : 1119373.5/15

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

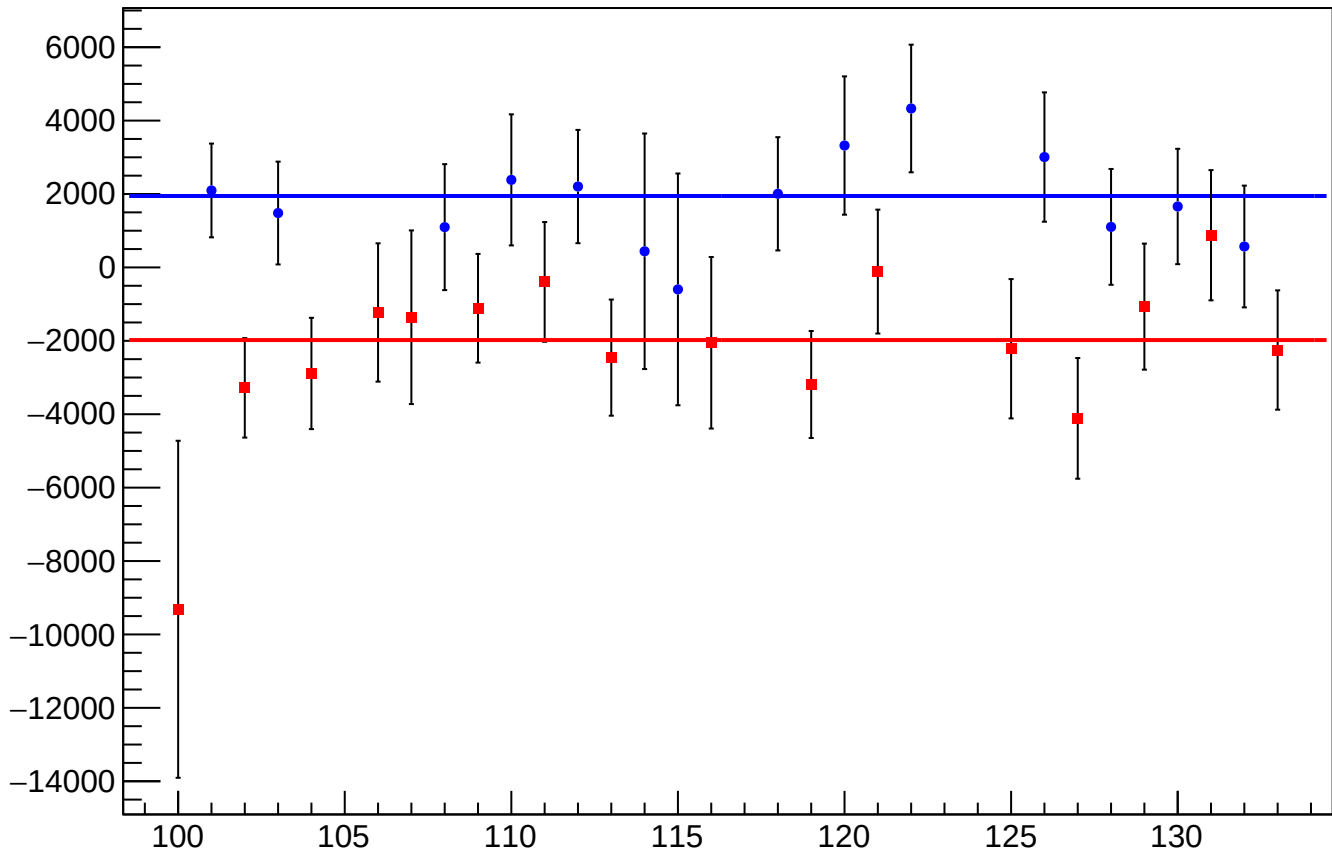
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 859.260+/-0.179  $\chi^2/\text{NDF}$ : 1948127.6/29

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



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



Right In: 1946.210+/-450.934  $\chi^2/\text{NDF}$ : 5.1/13

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

Right Out: -1979.021+/-430.085  $\chi^2/\text{NDF}$ : 12.0/15

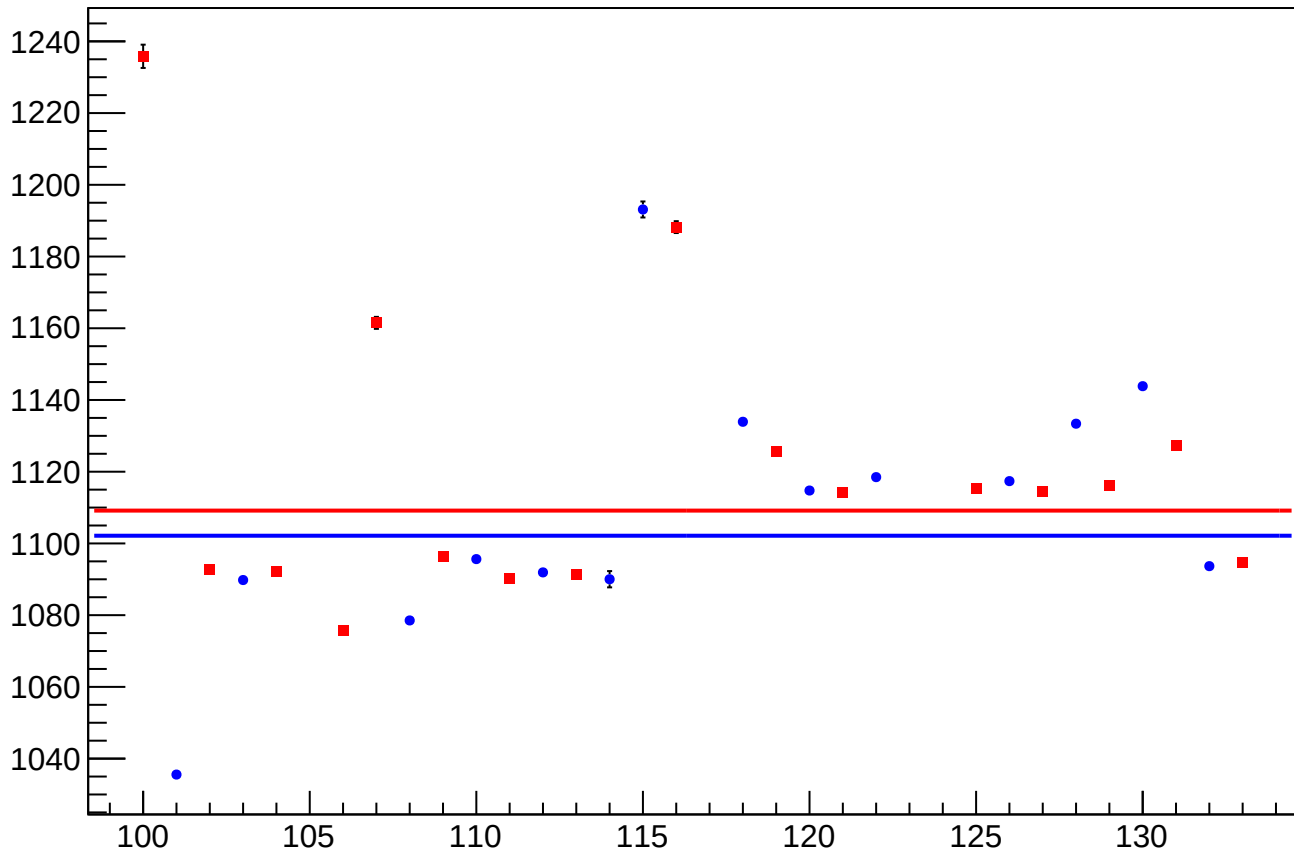
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -109.242+/-311.226  $\chi^2/\text{NDF}$ : 56.7/29

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

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



Right In: 1102.150+/-0.319  $\chi^2/\text{NDF}$ : 11284.2/13

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

Right Out: 1109.157+/-0.304  $\chi^2/\text{NDF}$ : 7348.7/15

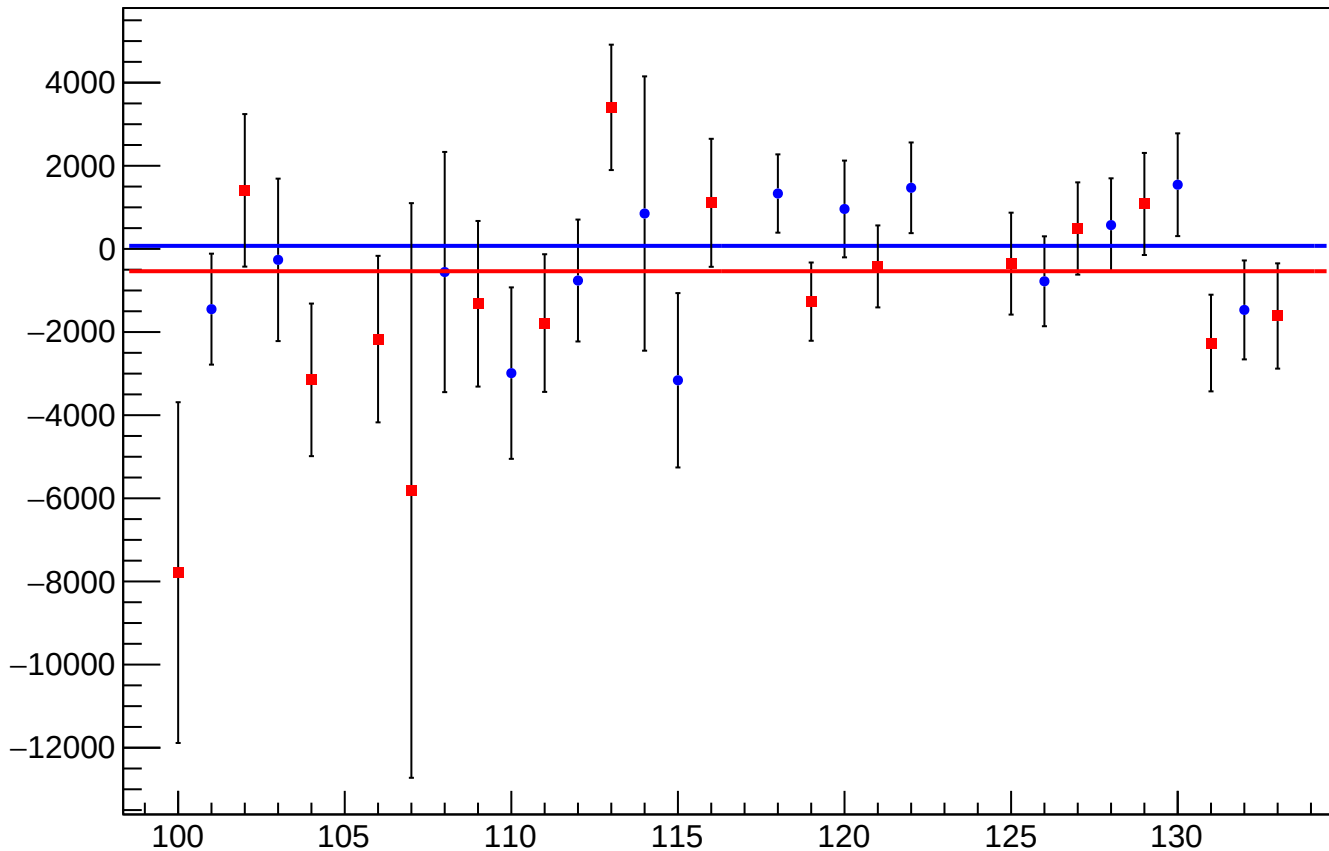
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1105.819+/-0.220  $\chi^2/\text{NDF}$ : 18885.7/29

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

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



Right In: 73.488+/-361.006  $\chi^2/\text{NDF}$ : 14.3/13

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

Right Out: -536.573+/-352.194  $\chi^2/\text{NDF}$ : 22.4/15

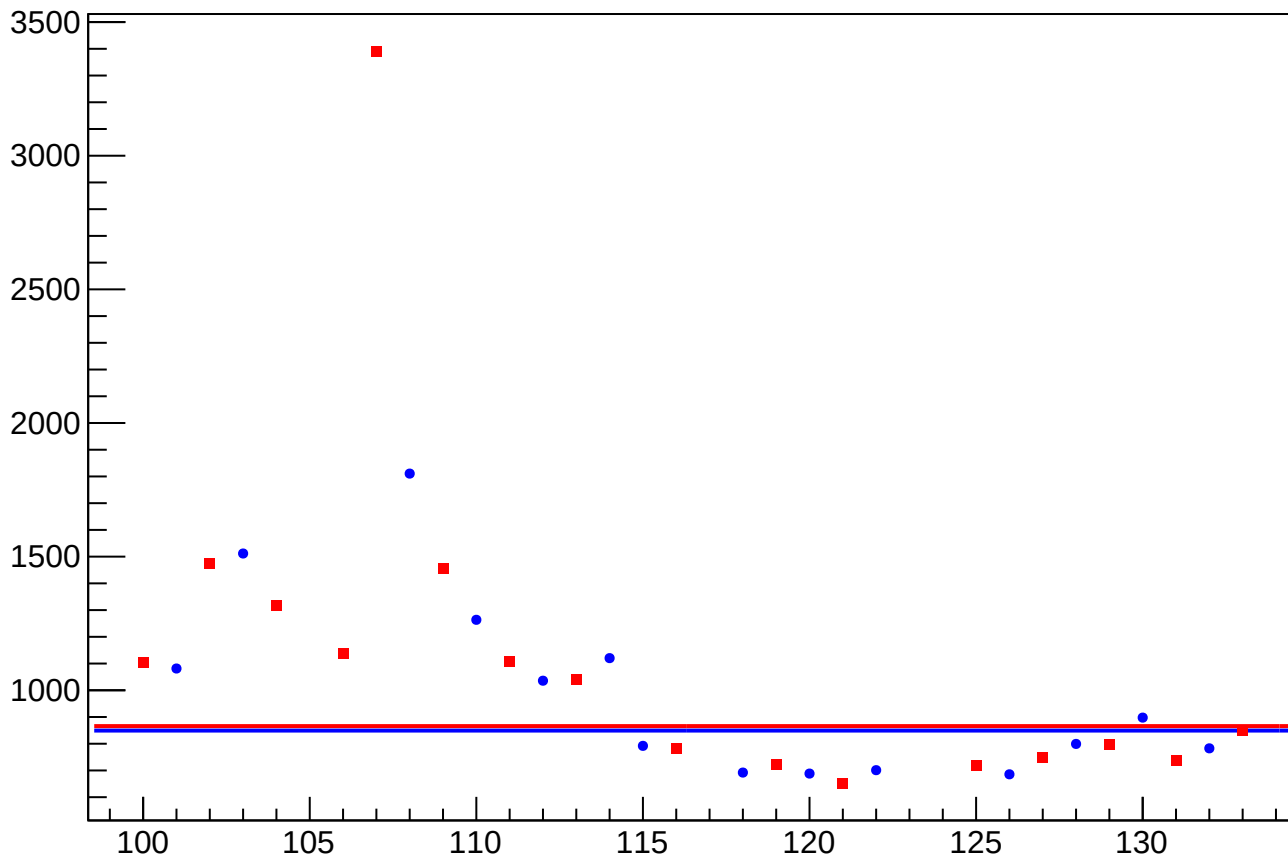
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -239.079+/-252.096  $\chi^2/\text{NDF}$ : 38.1/29

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

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



Right In: 849.246+/-0.255  $\chi^2/\text{NDF}$ : 829744.3/13

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

Right Out: 865.920+/-0.249  $\chi^2/\text{NDF}$ : 1122712.3/15

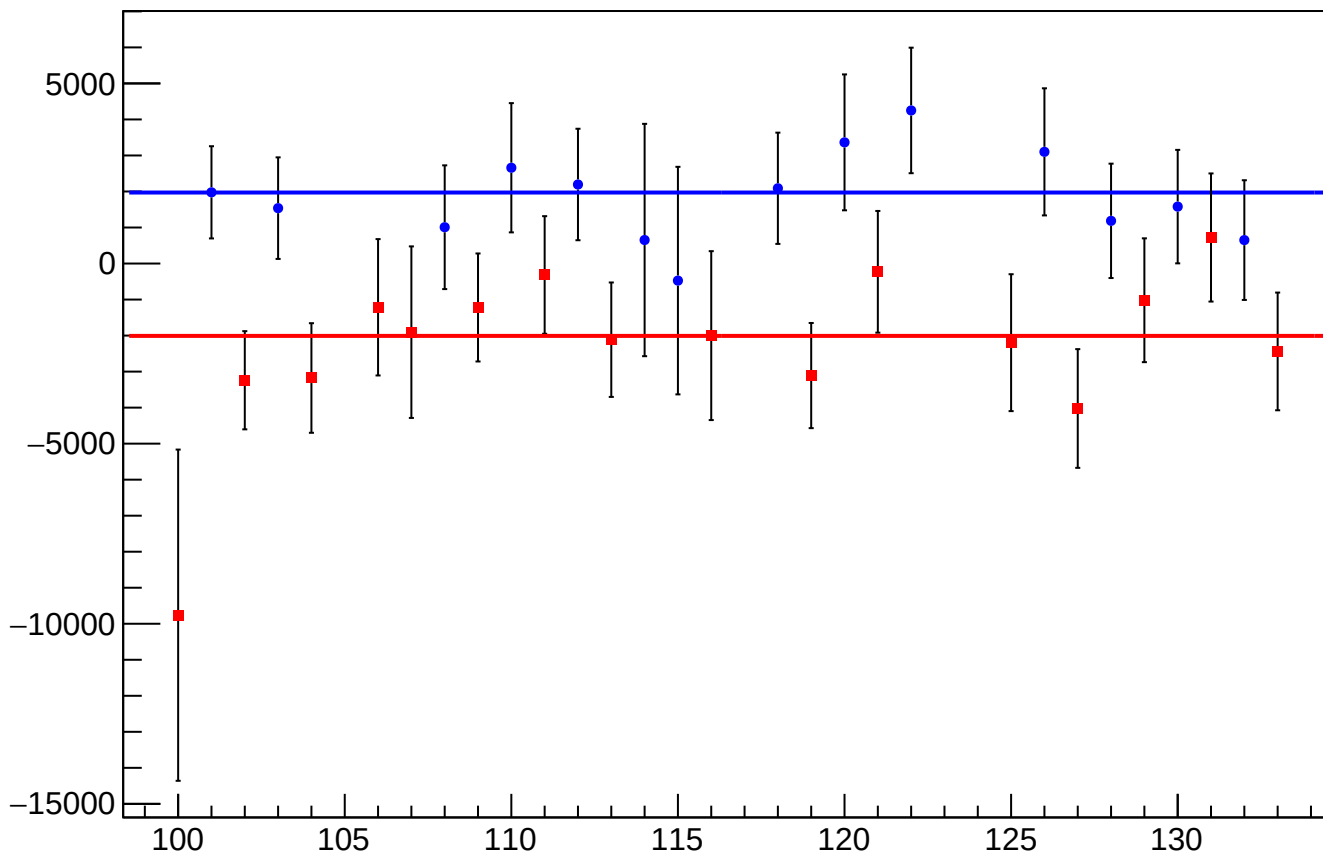
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 857.789+/-0.178  $\chi^2/\text{NDF}$ : 1954642.8/29

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

# dit\_asym\_usl\_mean vs Slug



Right In: 1971.240+/-452.192  $\chi^2/\text{NDF}$ : 5.0/13

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

Right Out: -2008.841+/-431.700  $\chi^2/\text{NDF}$ : 11.7/15

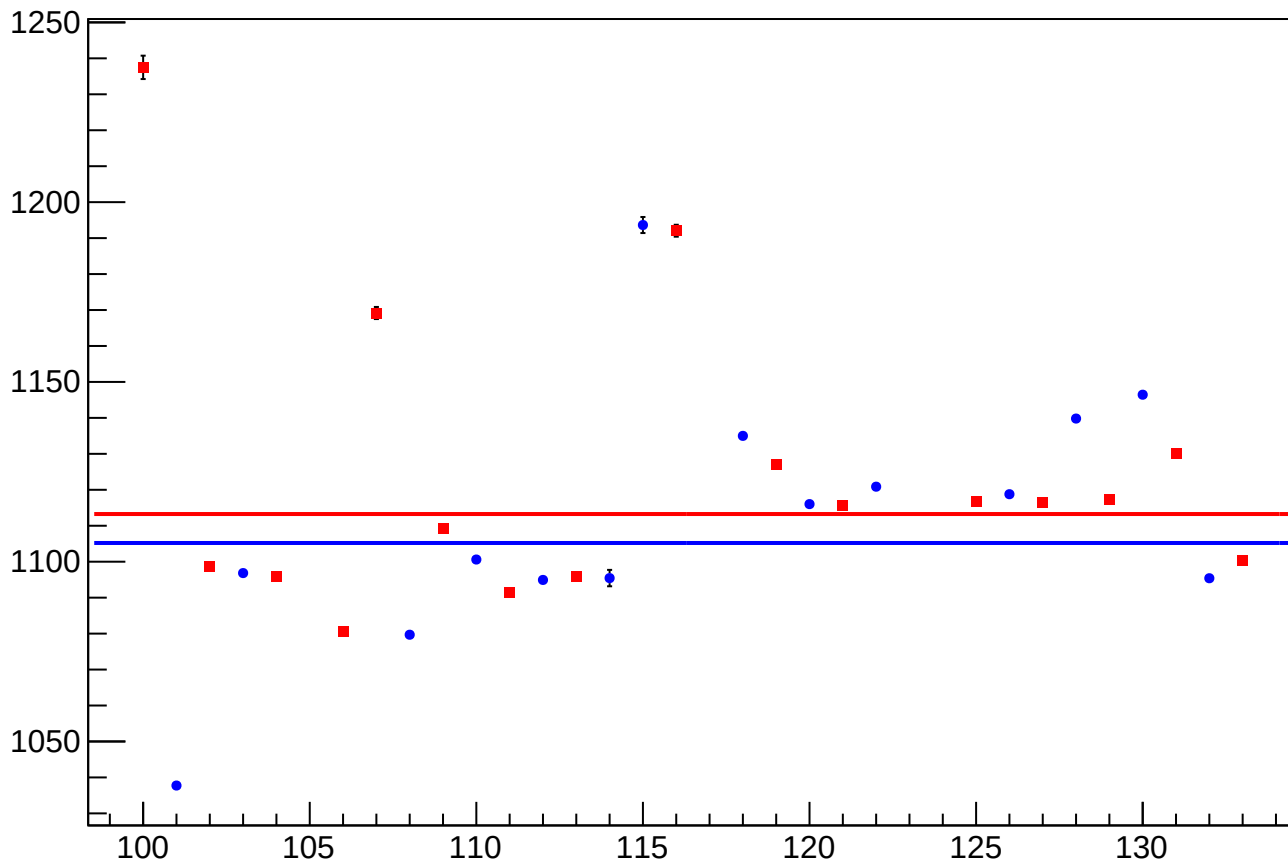
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -111.026+/-312.251  $\chi^2/\text{NDF}$ : 57.2/29

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

# dit\_asym\_usl\_rms vs Slug



Right In: 1105.206+/-0.320  $\chi^2/\text{NDF}$ : 11237.6/13

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

Right Out: 1113.259+/-0.305  $\chi^2/\text{NDF}$ : 7029.1/15

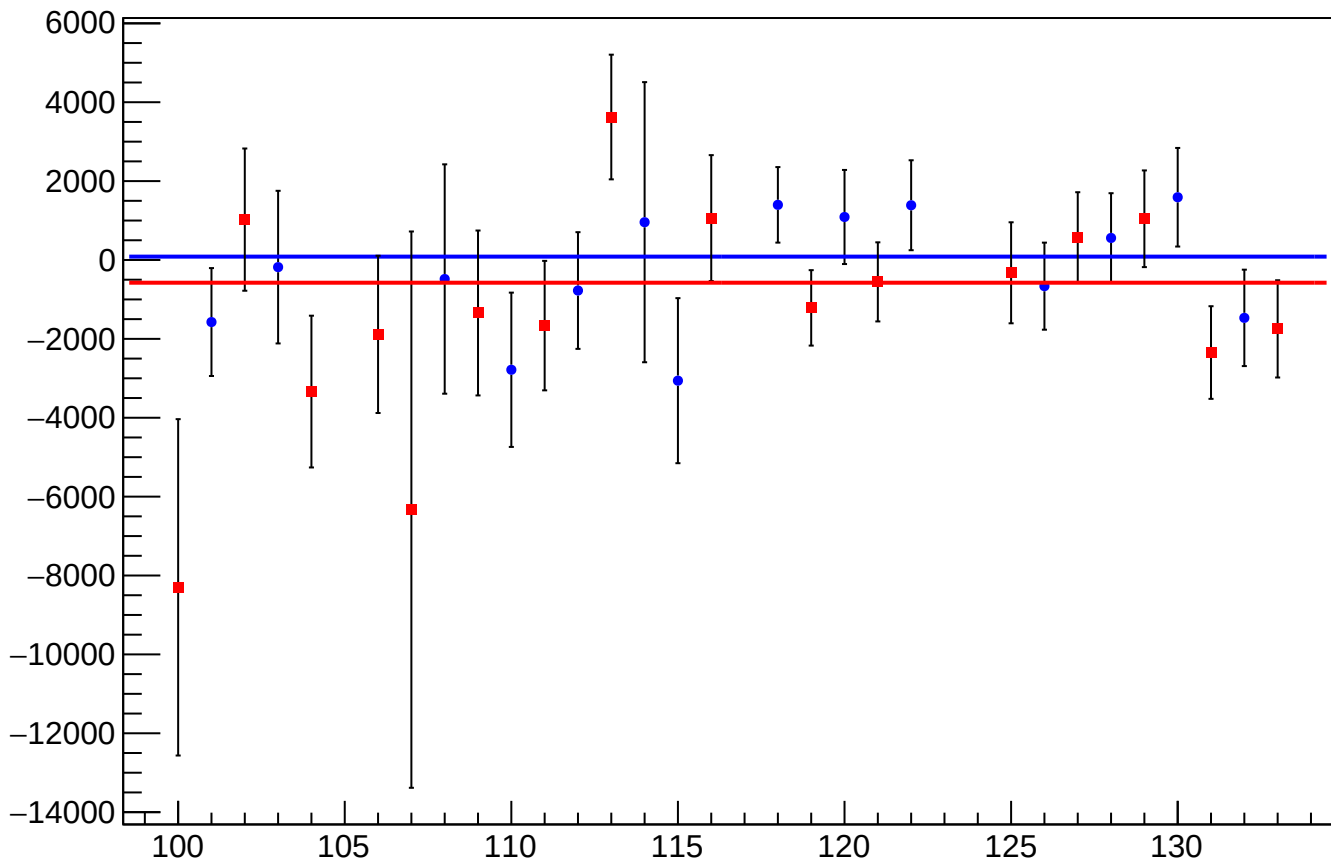
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1109.419+/-0.221  $\chi^2/\text{NDF}$ : 18598.4/29

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

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



Right In: 85.296+/-367.223  $\chi^2/\text{NDF}$ : 13.9/13

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

Right Out: -576.220+/-357.927  $\chi^2/\text{NDF}$ : 22.3/15

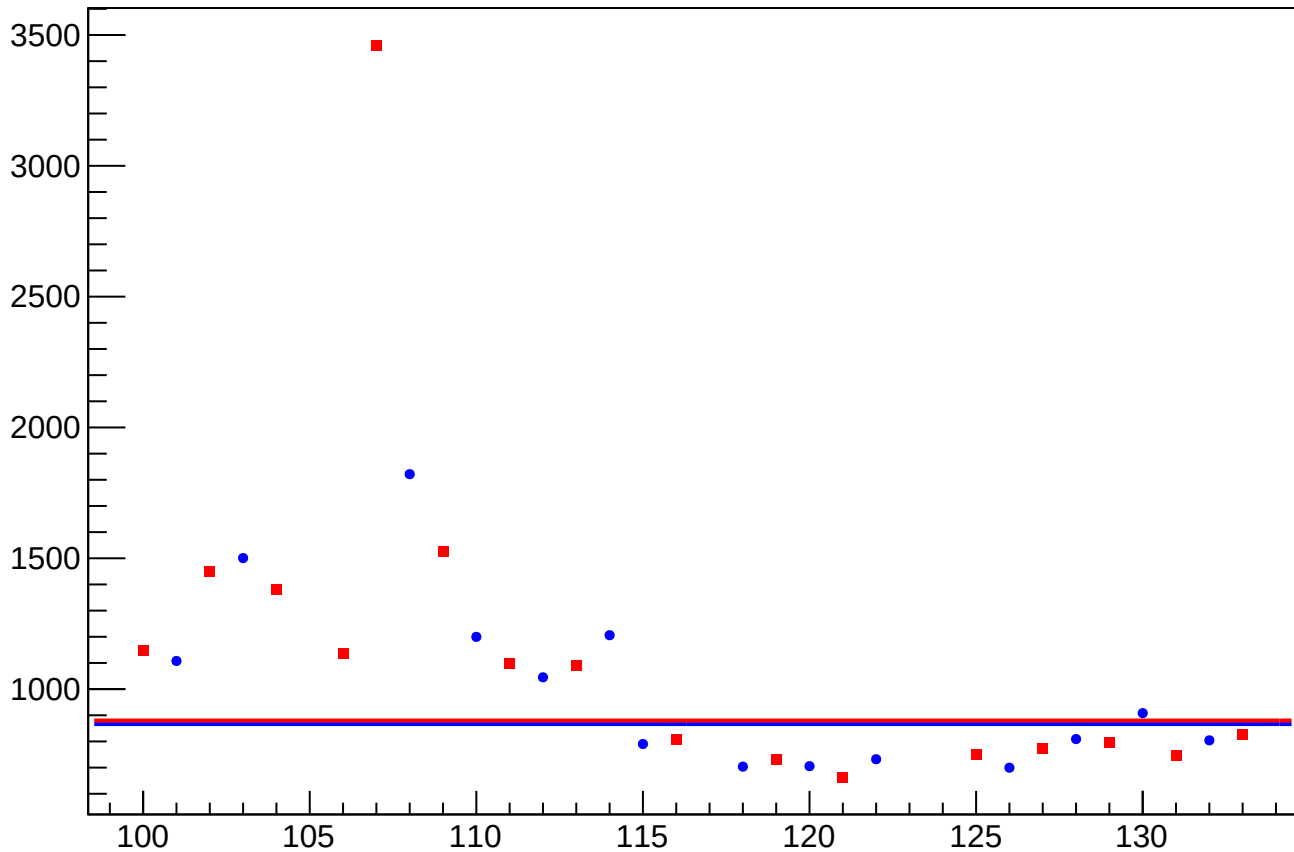
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -253.941+/-256.316  $\chi^2/\text{NDF}$ : 37.9/29

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

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



Right In: 866.334+/-0.260  $\chi^2/\text{NDF}$ : 781101.6/13

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

Right Out: 880.031+/-0.253  $\chi^2/\text{NDF}$ : 1128670.7/15

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

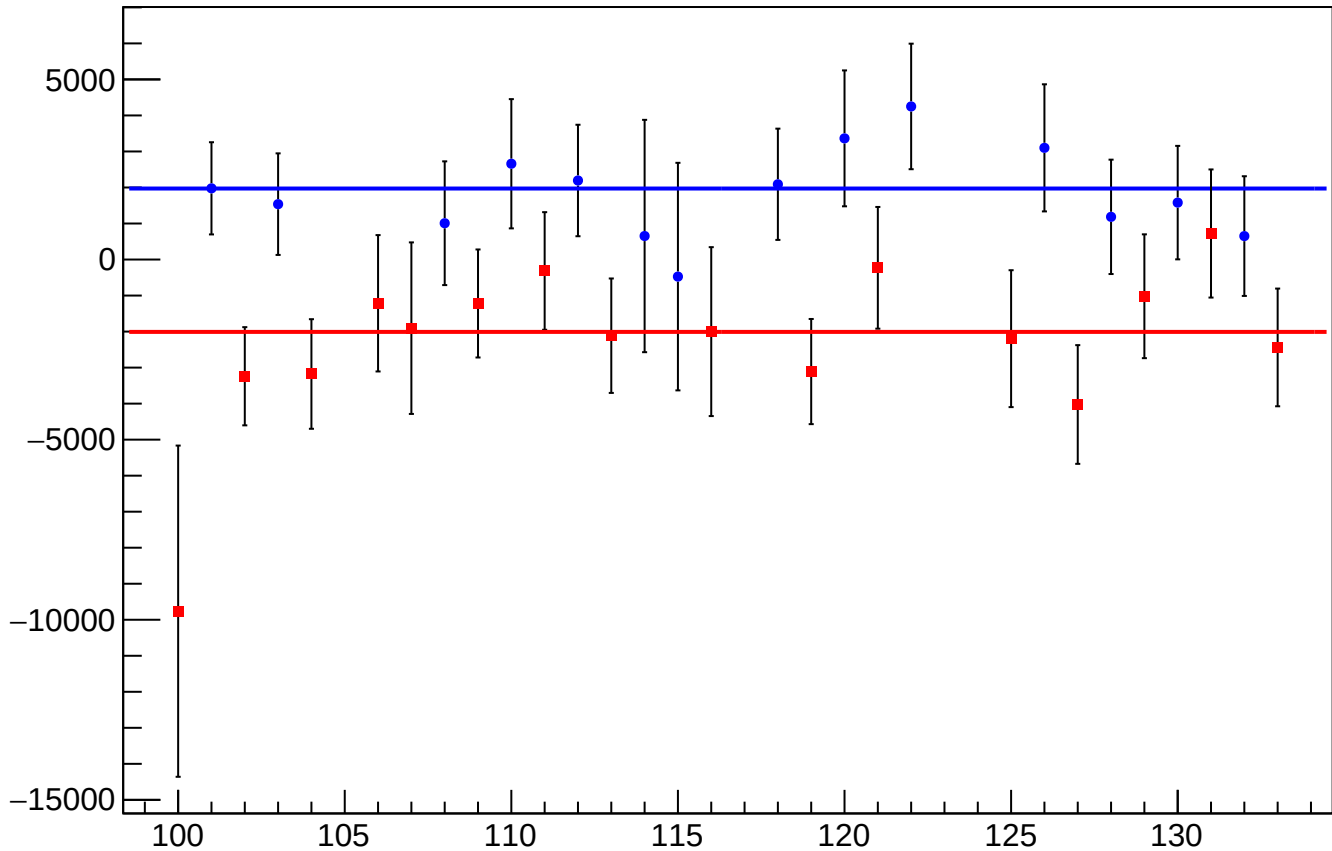
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 873.358+/-0.181  $\chi^2/\text{NDF}$ : 1911199.2/29

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



# eigen\_dit\_asym\_usl\_mean vs Slug



Right In: 1971.240+/-452.192  $\chi^2/\text{NDF}$ : 5.0/13

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

Right Out: -2008.838+/-431.700  $\chi^2/\text{NDF}$ : 11.7/15

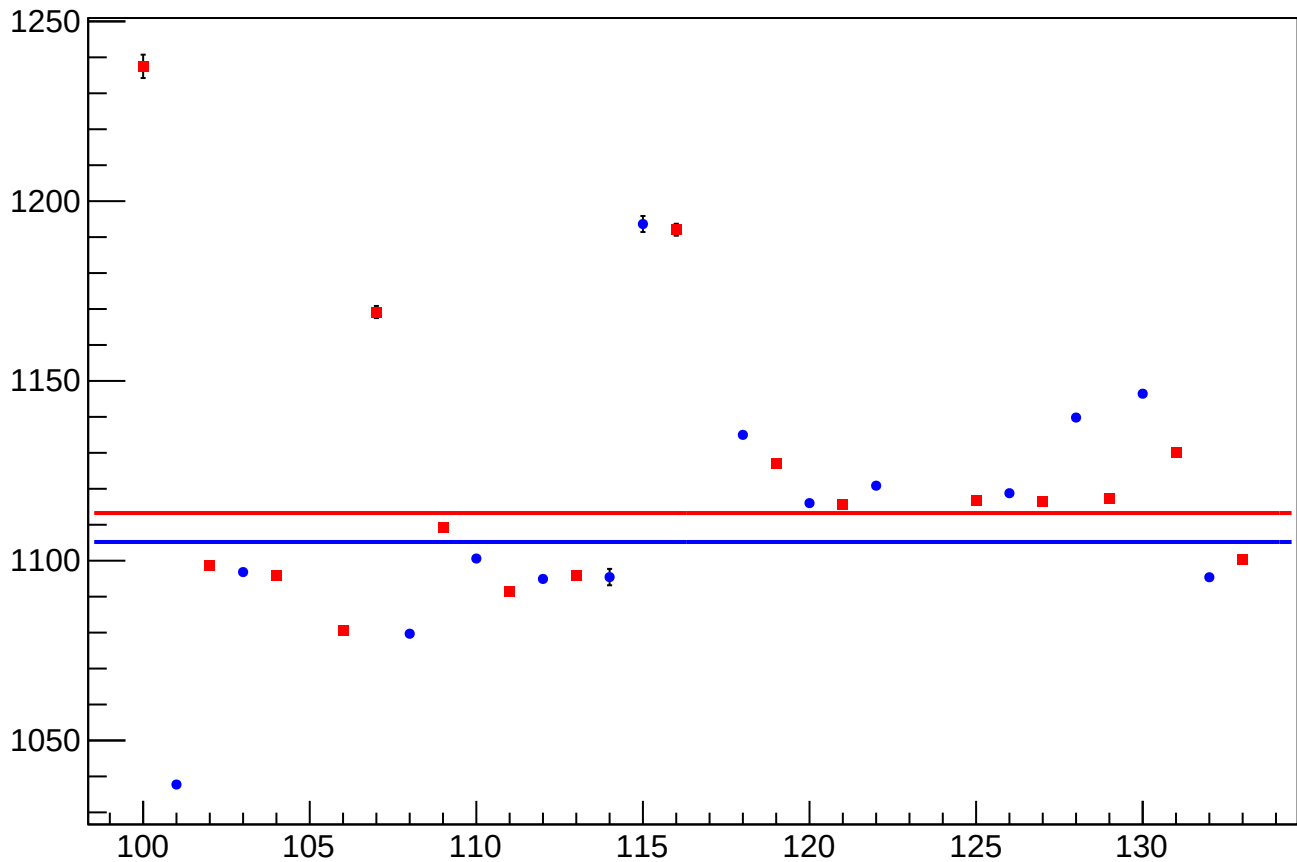
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -111.024+/-312.251  $\chi^2/\text{NDF}$ : 57.2/29

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

# eigen\_dit\_asym\_usl\_rms vs Slug



Right In: 1105.206+/-0.320  $\chi^2/\text{NDF}$ : 11237.6/13

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

Right Out: 1113.259+/-0.305  $\chi^2/\text{NDF}$ : 7029.0/15

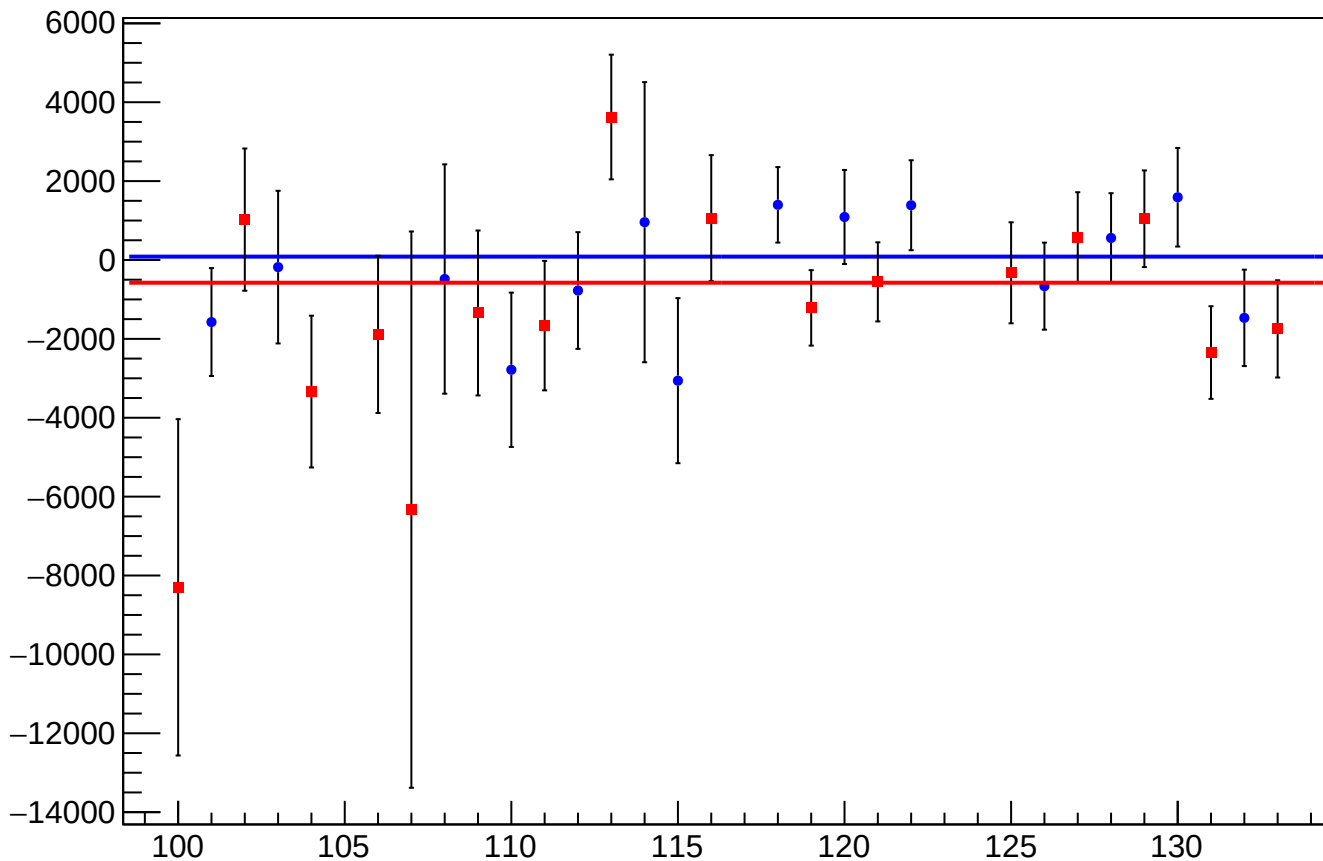
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1109.419+/-0.221  $\chi^2/\text{NDF}$ : 18598.4/29

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

# asym\_usl\_eigen\_dit\_correction\_mean vs Slug



Right In: 85.297+/-367.222  $\chi^2/\text{NDF}$ : 13.9/13

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

Right Out: -576.219+/-357.926  $\chi^2/\text{NDF}$ : 22.3/15

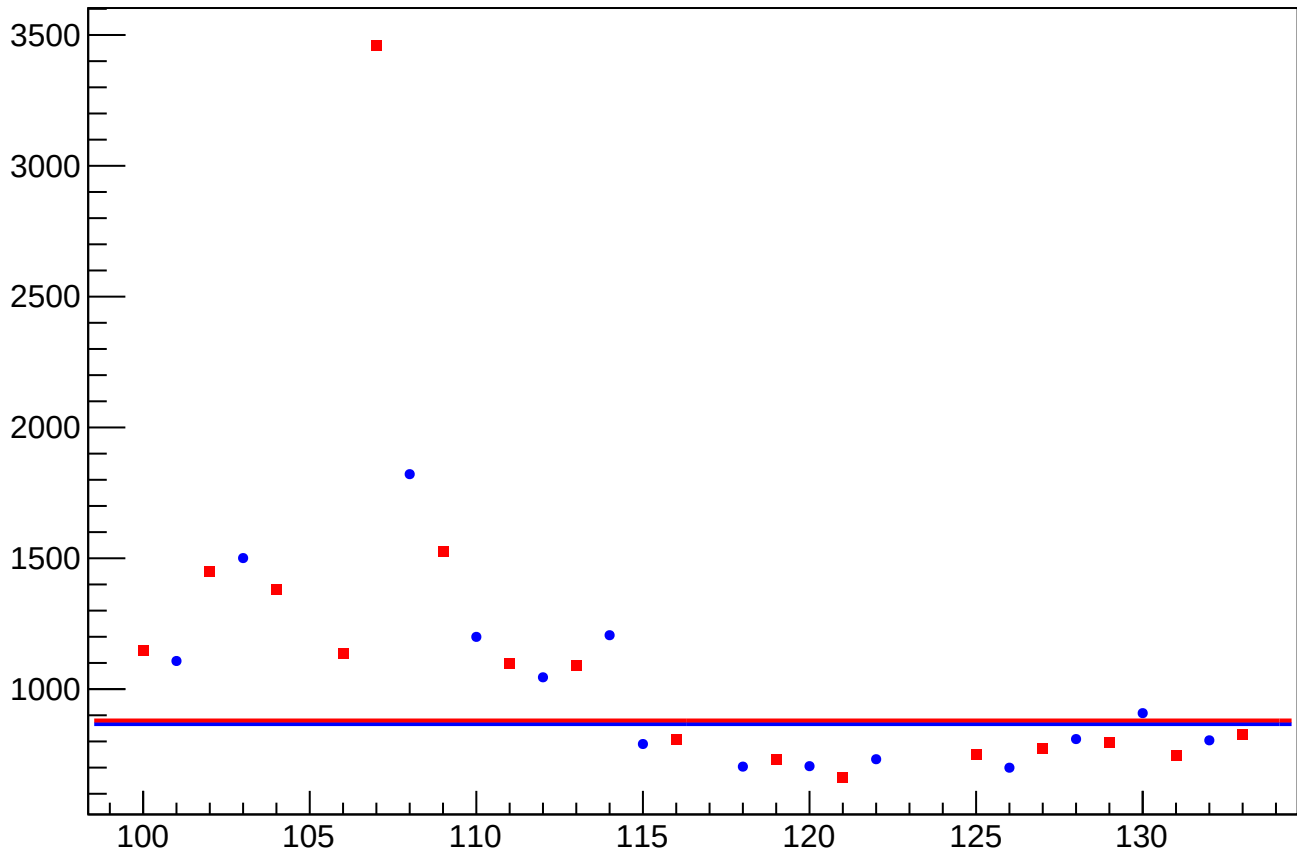
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -253.940+/-256.315  $\chi^2/\text{NDF}$ : 37.9/29

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

# asym\_usl\_eigen\_dit\_correction\_rms vs Slug



Right In: 866.332+/-0.260  $\chi^2/\text{NDF}$ : 781104.0/13

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

Right Out: 880.029+/-0.253  $\chi^2/\text{NDF}$ : 1128671.8/15

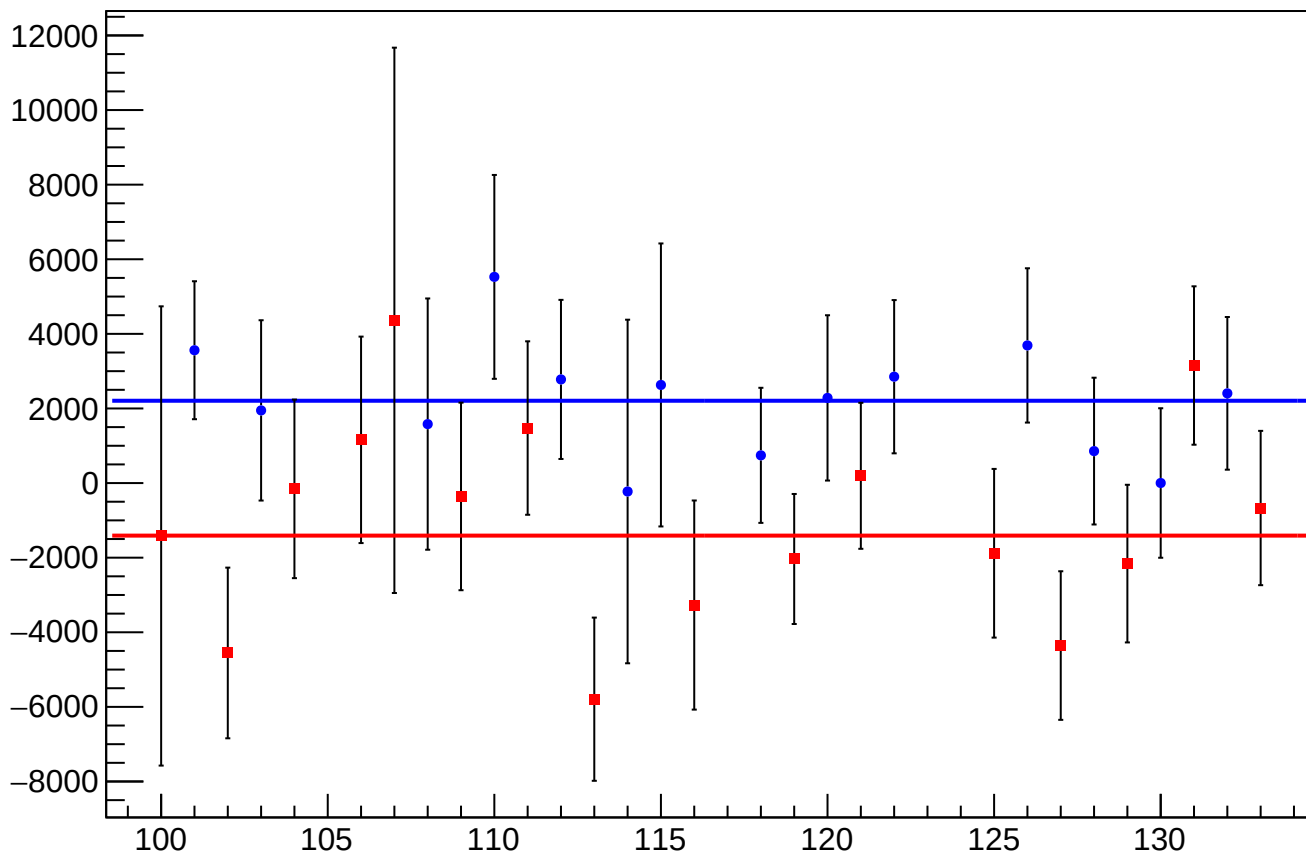
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 873.356+/-0.181  $\chi^2/\text{NDF}$ : 1911202.8/29

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

# asym\_usl\_mean vs Slug



Right In: 2206.814 $\pm$ 603.262  $\chi^2$ /NDF: 5.4/13

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

Right Out: -1408.518 $\pm$ 583.400  $\chi^2$ /NDF: 17.7/15

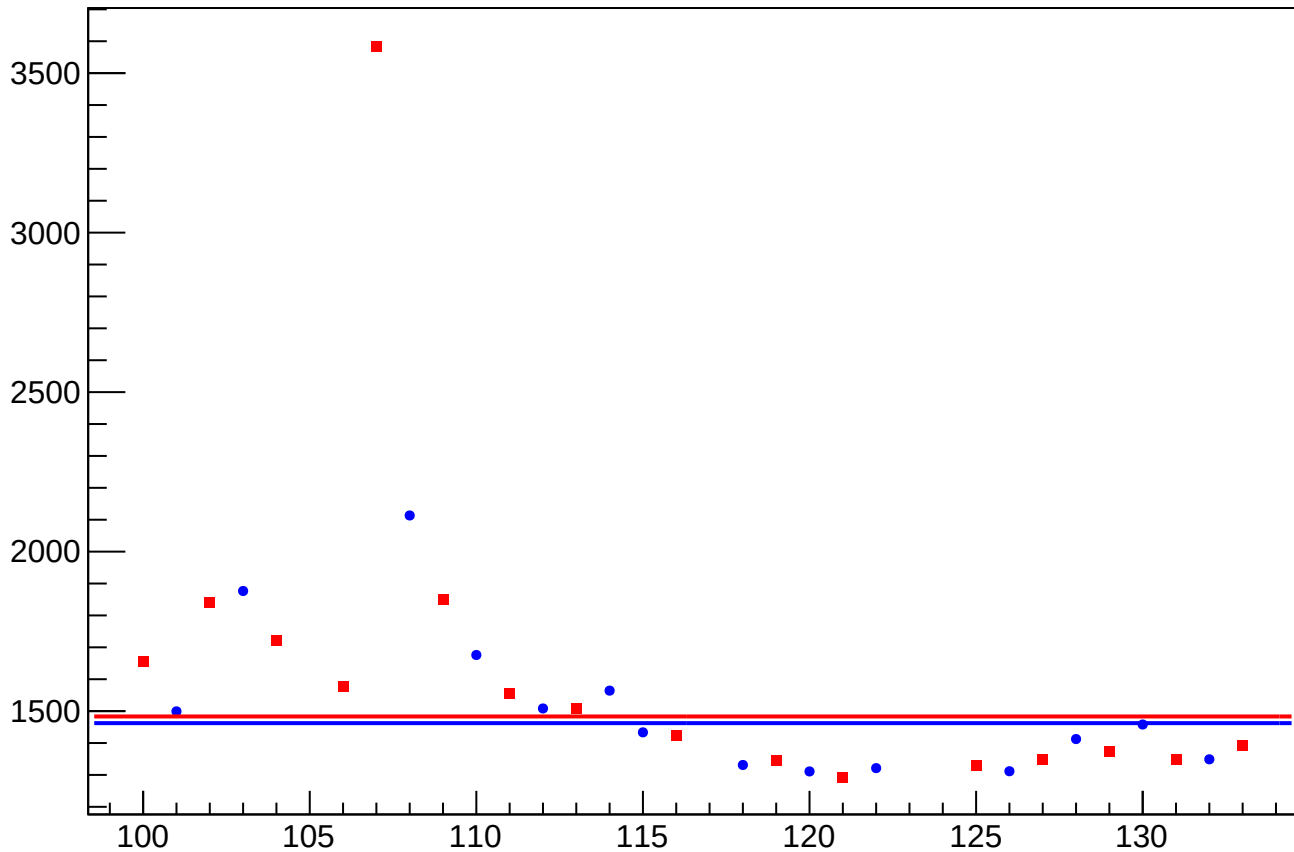
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 338.654 $\pm$ 419.372  $\chi^2$ /NDF: 41.7/29

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

# asym\_usl\_rms vs Slug



Right In: 1462.360+/-0.427  $\chi^2/\text{NDF}$ : 195868.5/13

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

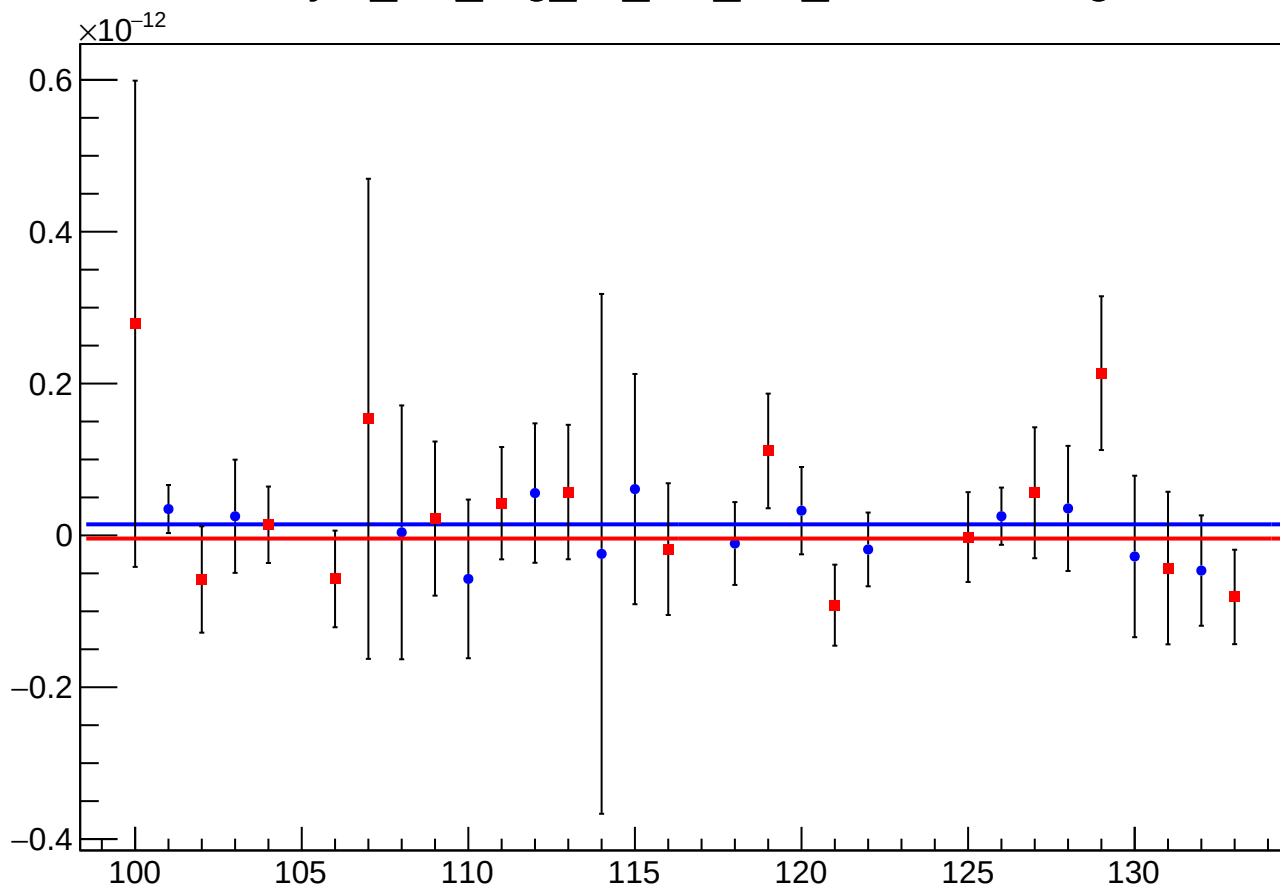
Right Out: 1483.253+/-0.413  $\chi^2/\text{NDF}$ : 351263.6/15

All: 1473.156+/-0.297  $\chi^2/\text{NDF}$ : 548371.8/29

- 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\_usl\_reg\_vs\_cor\_diff\_mean vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 3.0/13

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

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 15.3/15

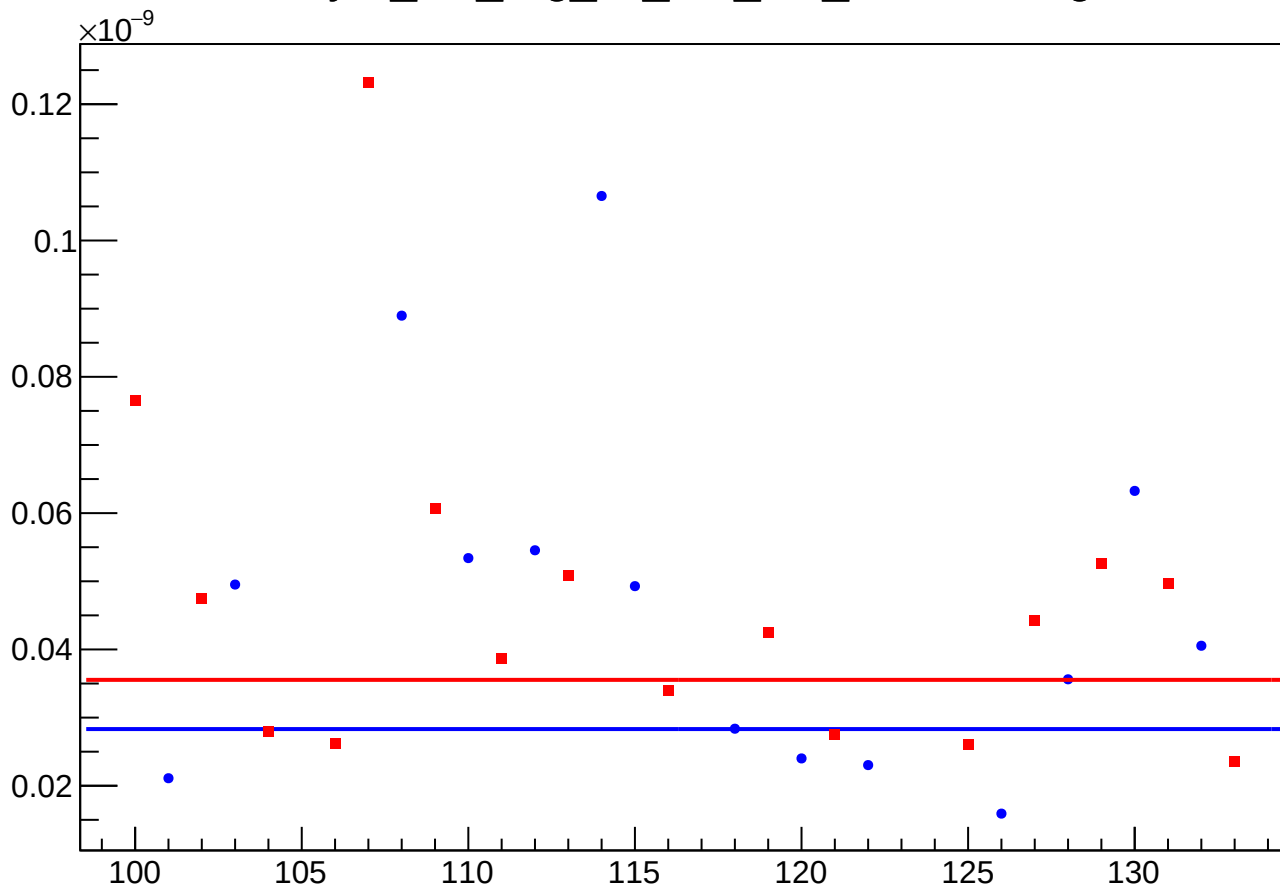
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 18.8/29

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

# asym\_usl\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1489787.0/13

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 823211.6/15

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

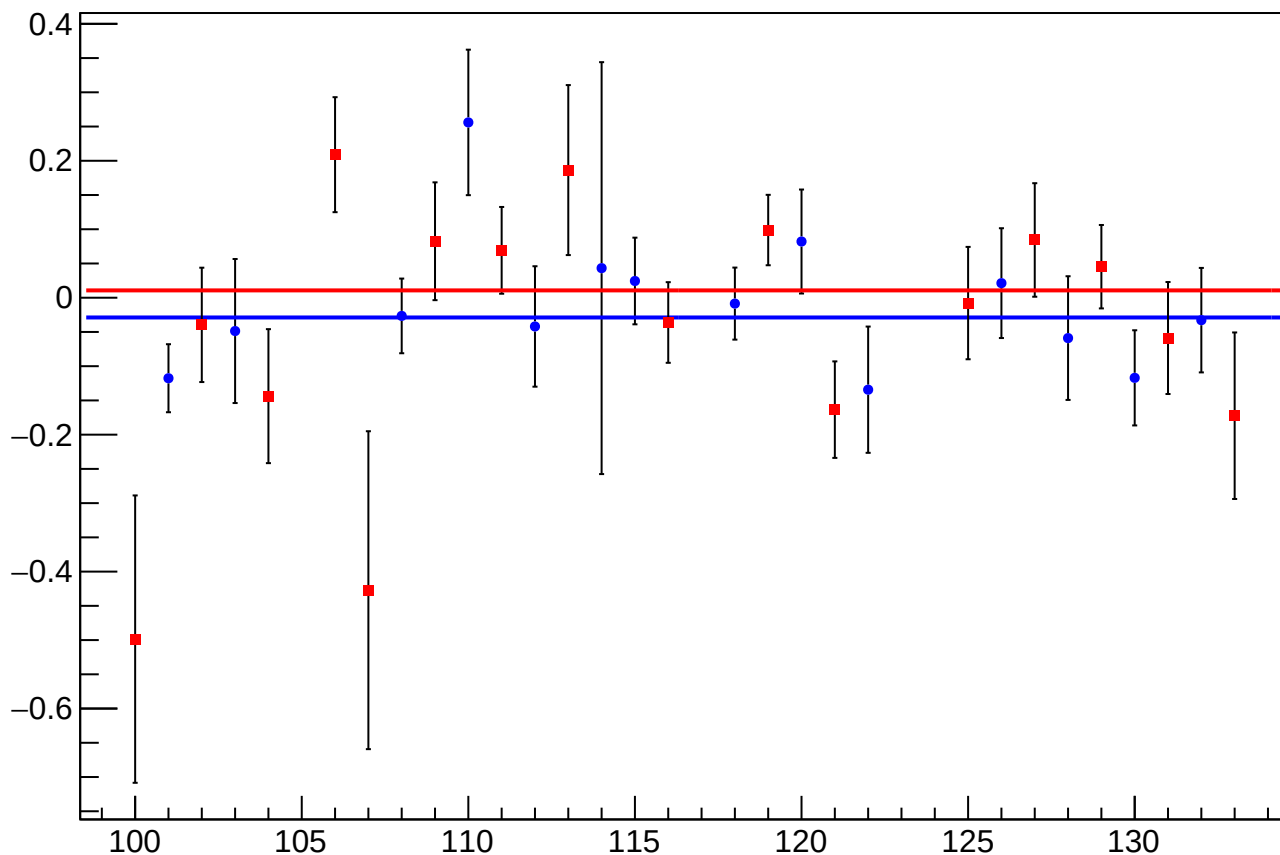
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2478742.3/29

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



# asym\_usl\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.029+/-0.020  $\chi^2/\text{NDF}$ : 16.9/13

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

Right Out: 0.011+/-0.020  $\chi^2/\text{NDF}$ : 35.3/15

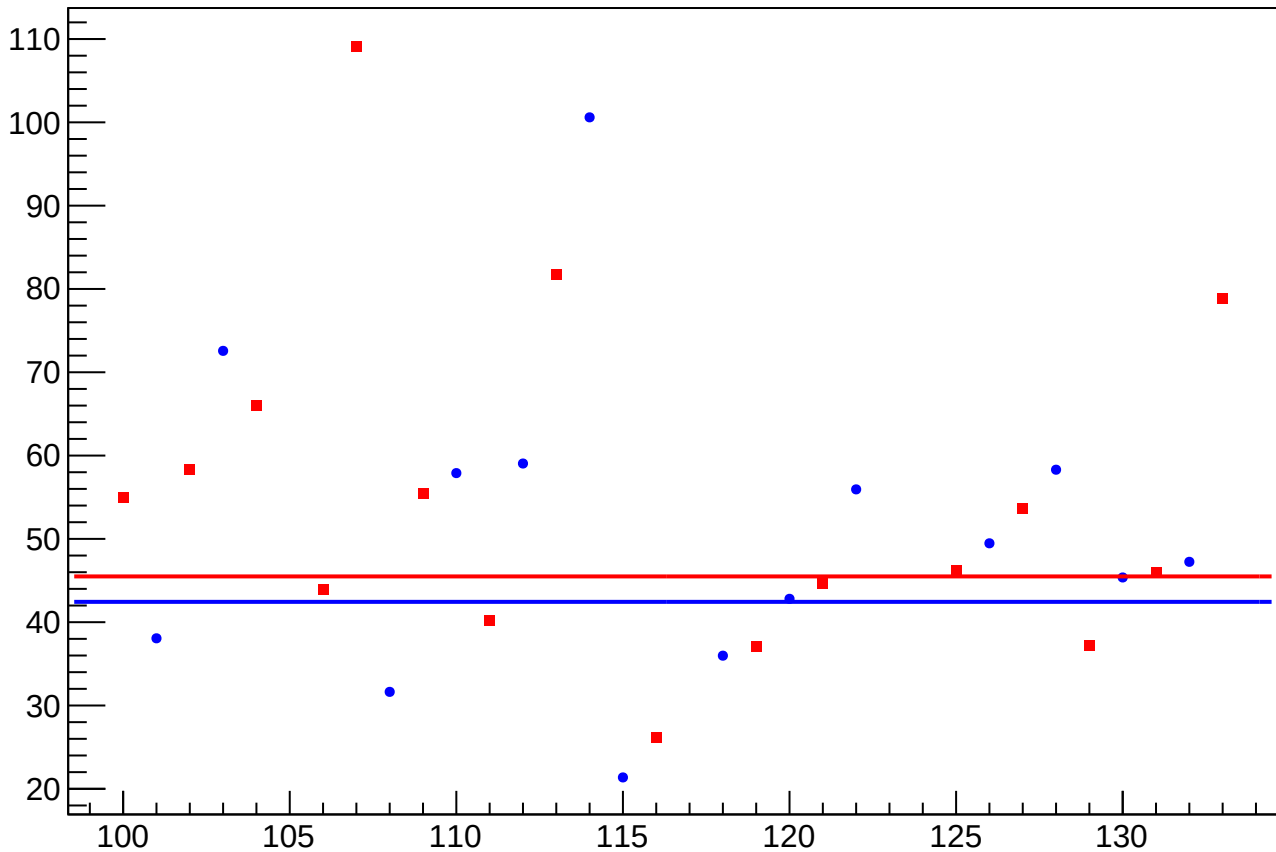
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.009+/-0.014  $\chi^2/\text{NDF}$ : 54.2/29

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

# asym\_usl\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 42.442+/-0.014  $\chi^2/\text{NDF}$ : 829951.5/13

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

Right Out: 45.494+/-0.014  $\chi^2/\text{NDF}$ : 976278.4/15

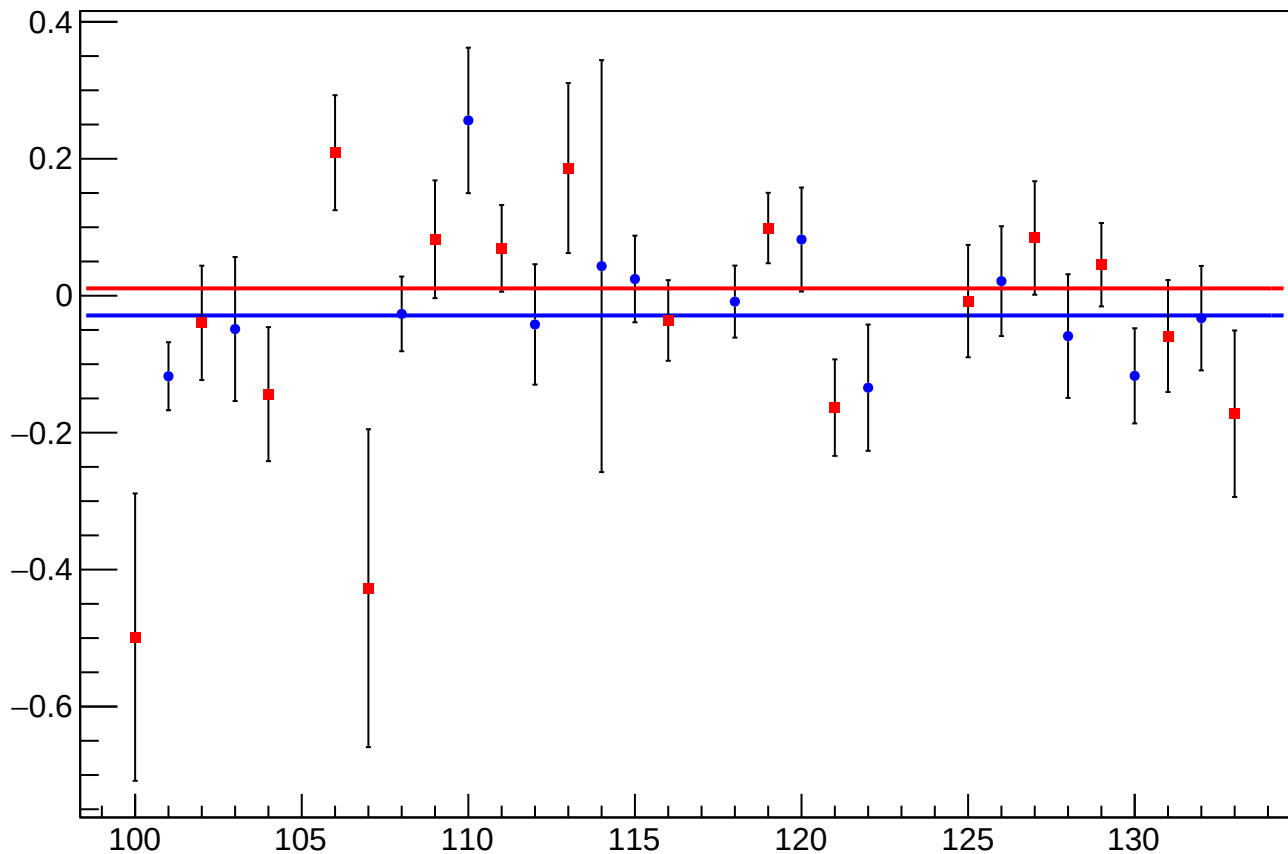
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 43.941+/-0.010  $\chi^2/\text{NDF}$ : 1830212.2/29

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

# asym\_usl\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.029+/-0.020  $\chi^2/\text{NDF}$ : 16.9/13

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

Right Out: 0.011+/-0.020  $\chi^2/\text{NDF}$ : 35.3/15

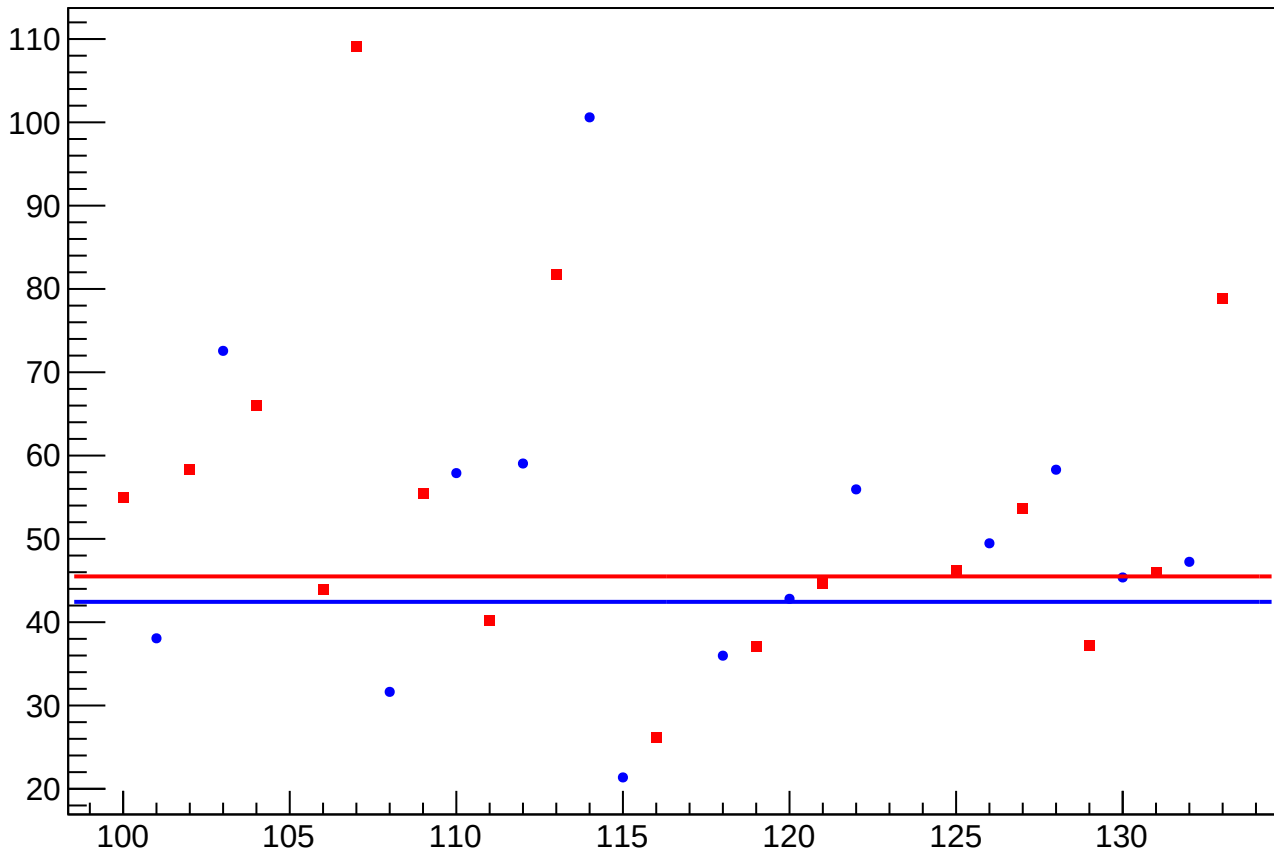
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.009+/-0.014  $\chi^2/\text{NDF}$ : 54.2/29

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

# asym\_usl\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 42.442+/-0.014  $\chi^2/\text{NDF}$ : 829951.5/13

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

Right Out: 45.494+/-0.014  $\chi^2/\text{NDF}$ : 976278.4/15

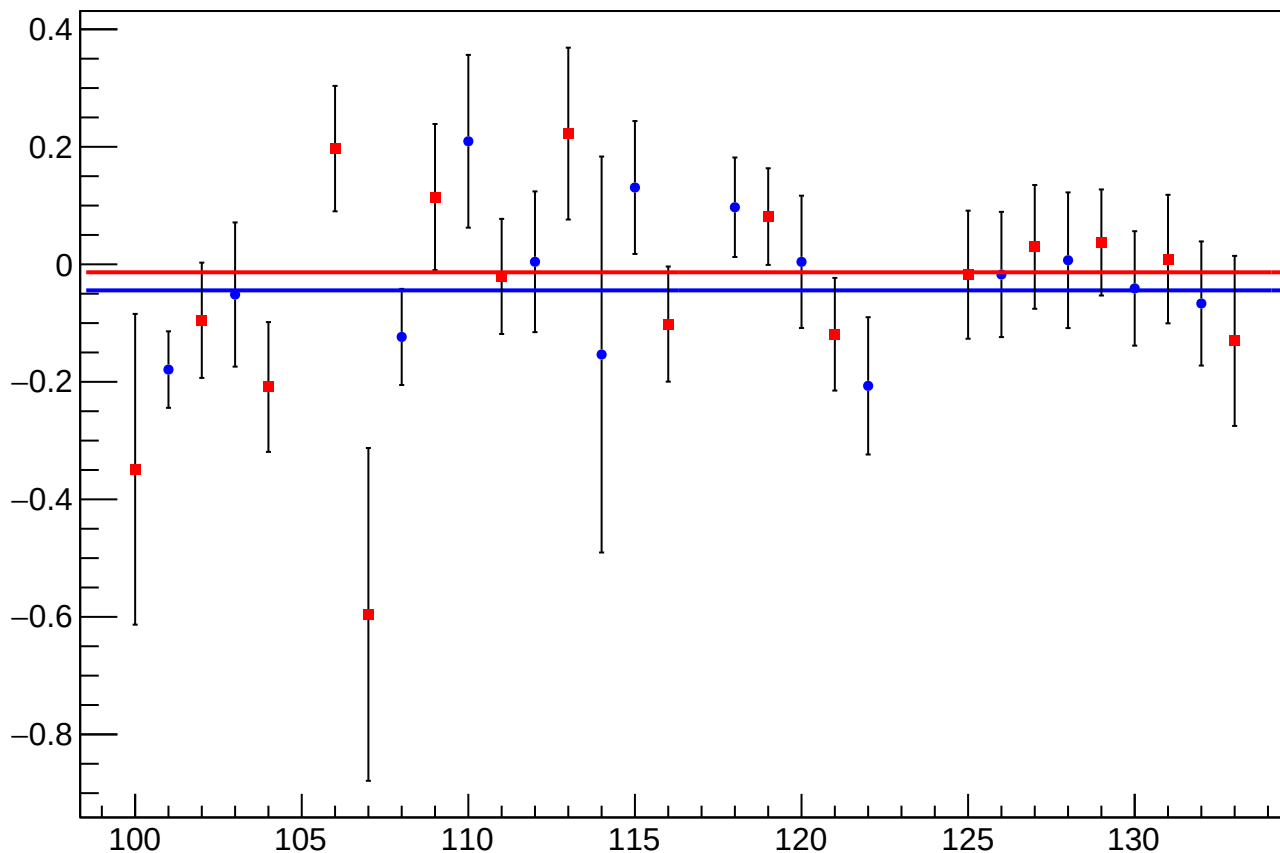
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 43.941+/-0.010  $\chi^2/\text{NDF}$ : 1830212.2/29

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

# asym\_usl\_dit\_vs\_overload\_cor\_diff\_mean vs Slug



Right In:  $-0.044 \pm 0.028$   $\chi^2/\text{NDF}$ : 16.1/13

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

Right Out:  $-0.014 \pm 0.028$   $\chi^2/\text{NDF}$ : 21.7/15

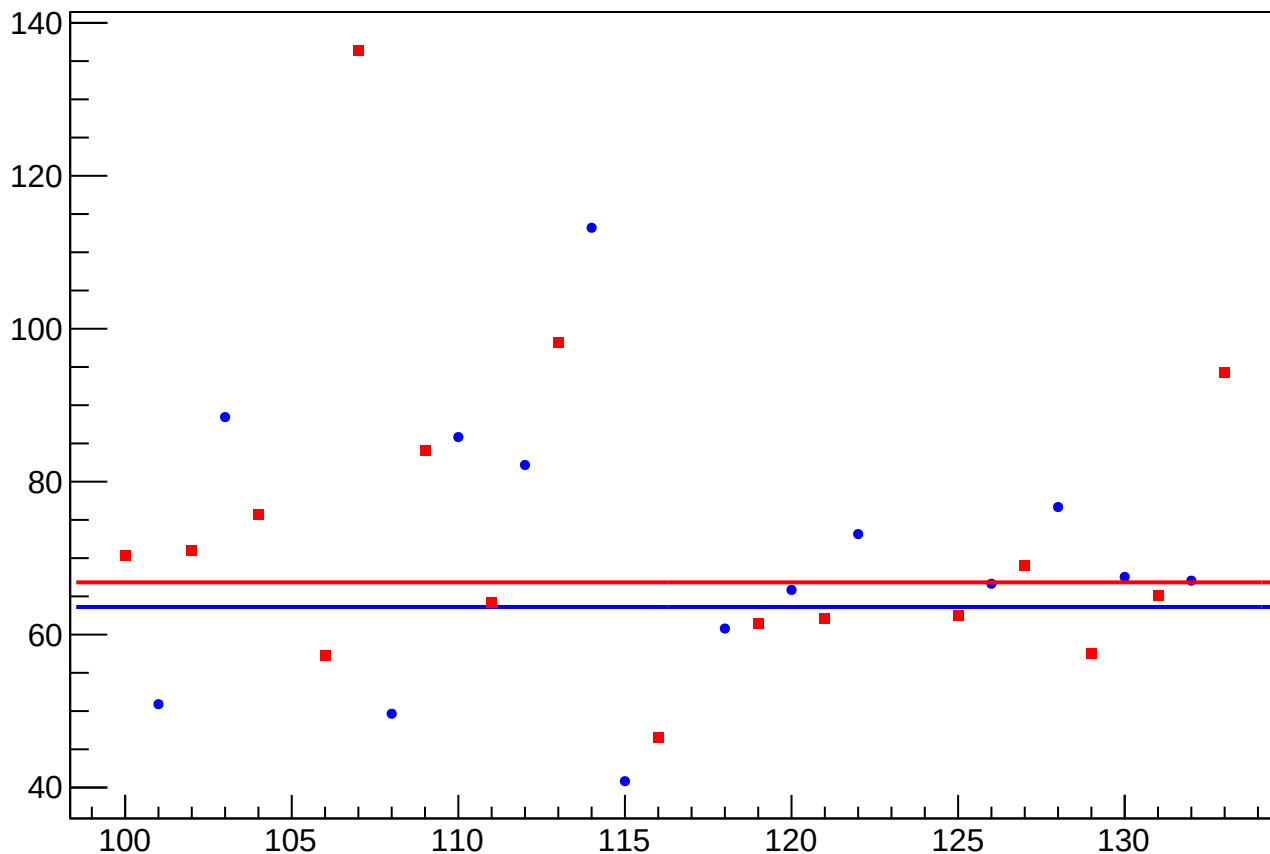
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.029 \pm 0.020$   $\chi^2/\text{NDF}$ : 38.5/29

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

# asym\_usl\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In: 63.610+/-0.020  $\chi^2$ /NDF: 483575.0/13

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

Right Out: 66.835+/-0.020  $\chi^2$ /NDF: 482743.0/15

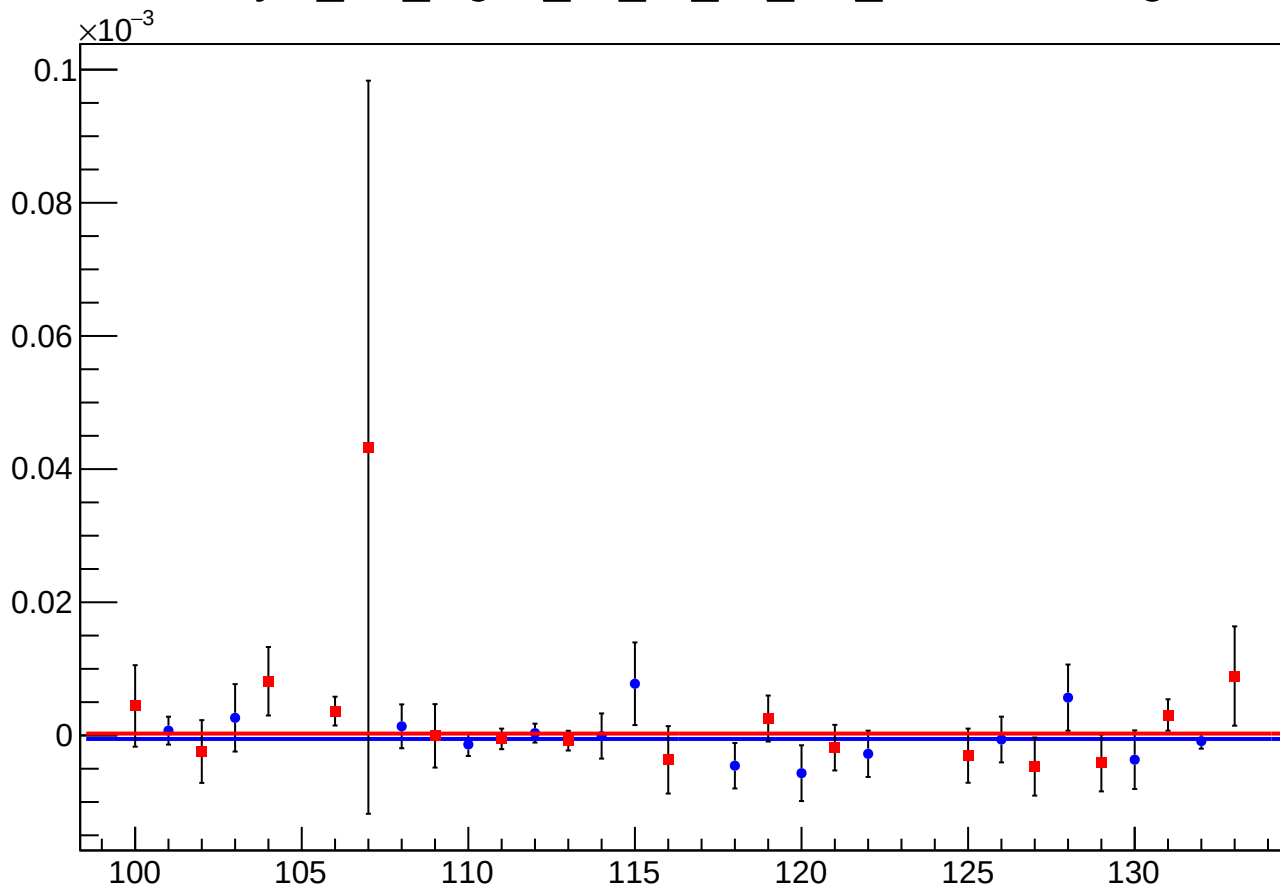
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

All: 65.223+/-0.014  $\chi^2$ /NDF: 979891.6/29

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

# asym\_usl\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 8.9/13

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

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 14.1/15

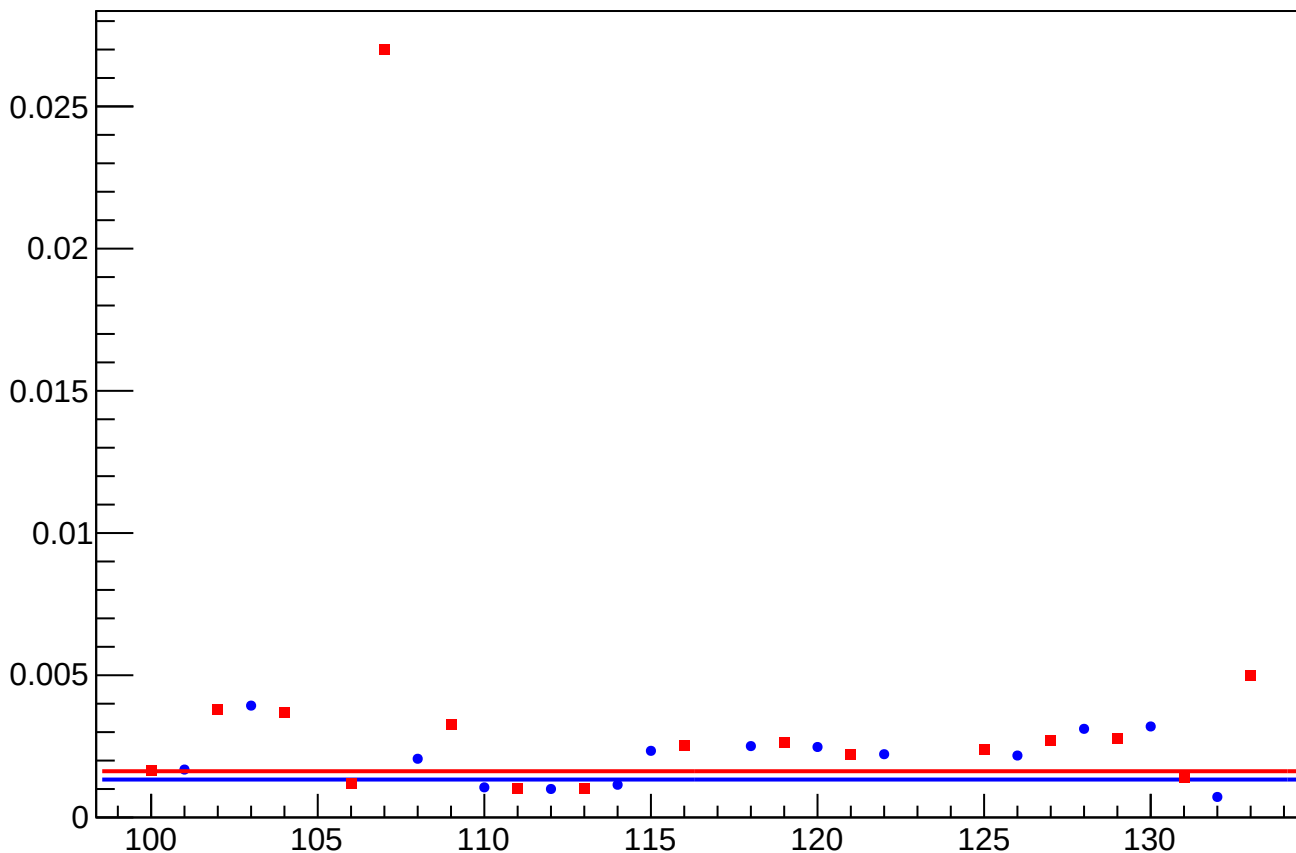
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 23.8/29

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

# asym\_usl\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2747037.5/13

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

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3180917.6/15

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

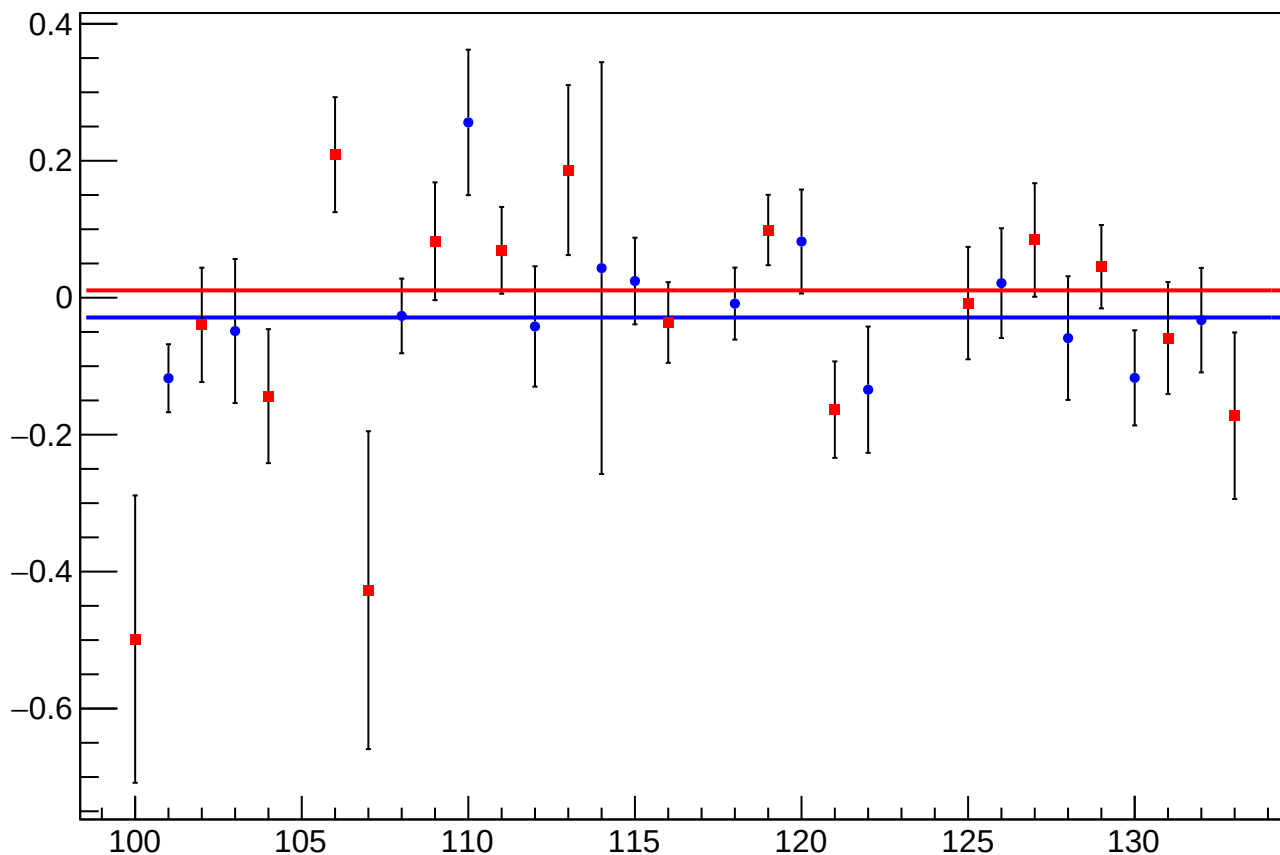
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 6107968.0/29

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



# asym\_usl\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.029+/-0.020  $\chi^2/\text{NDF}$ : 16.9/13

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

Right Out: 0.011+/-0.020  $\chi^2/\text{NDF}$ : 35.3/15

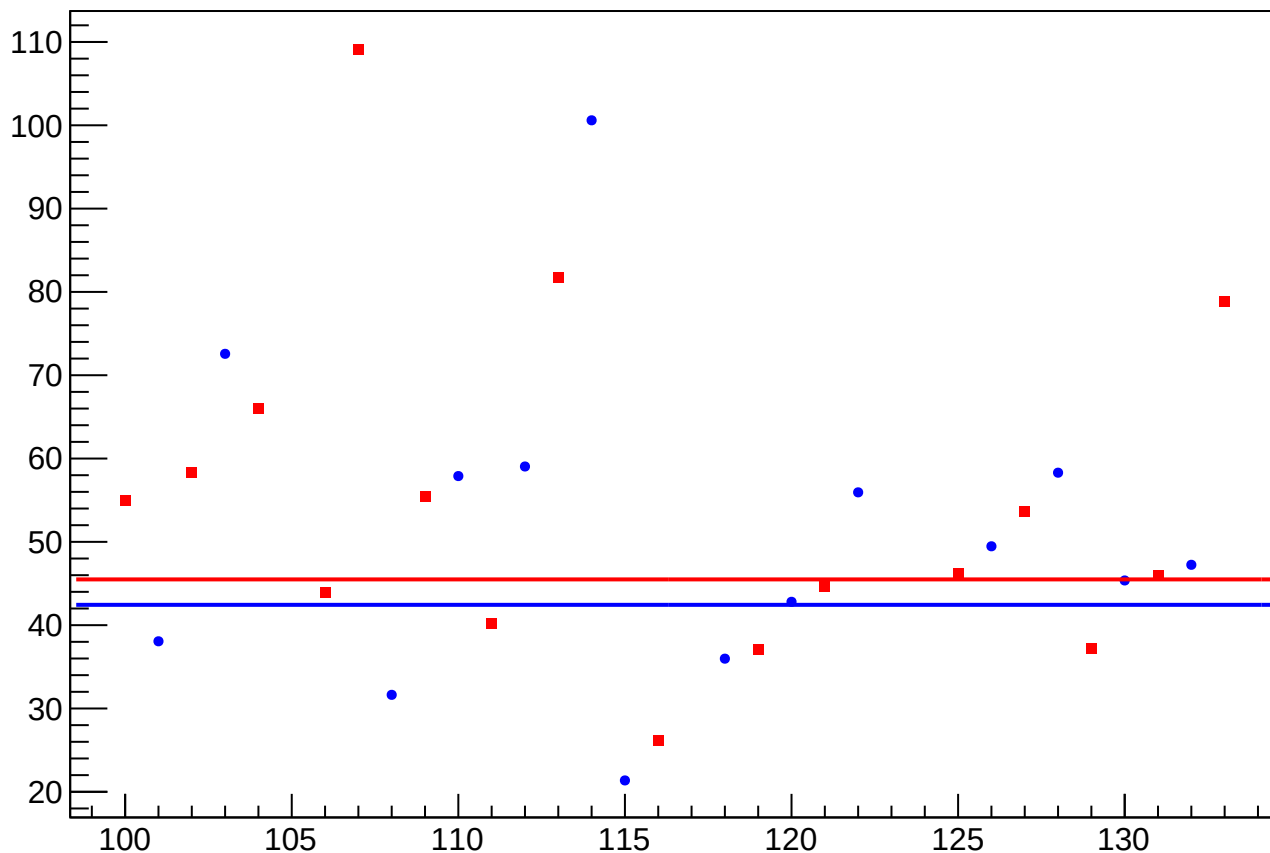
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.009+/-0.014  $\chi^2/\text{NDF}$ : 54.2/29

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

# asym\_usl\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 42.441+/-0.014  $\chi^2/\text{NDF}$ : 829992.0/13

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

Right Out: 45.493+/-0.014  $\chi^2/\text{NDF}$ : 976305.1/15

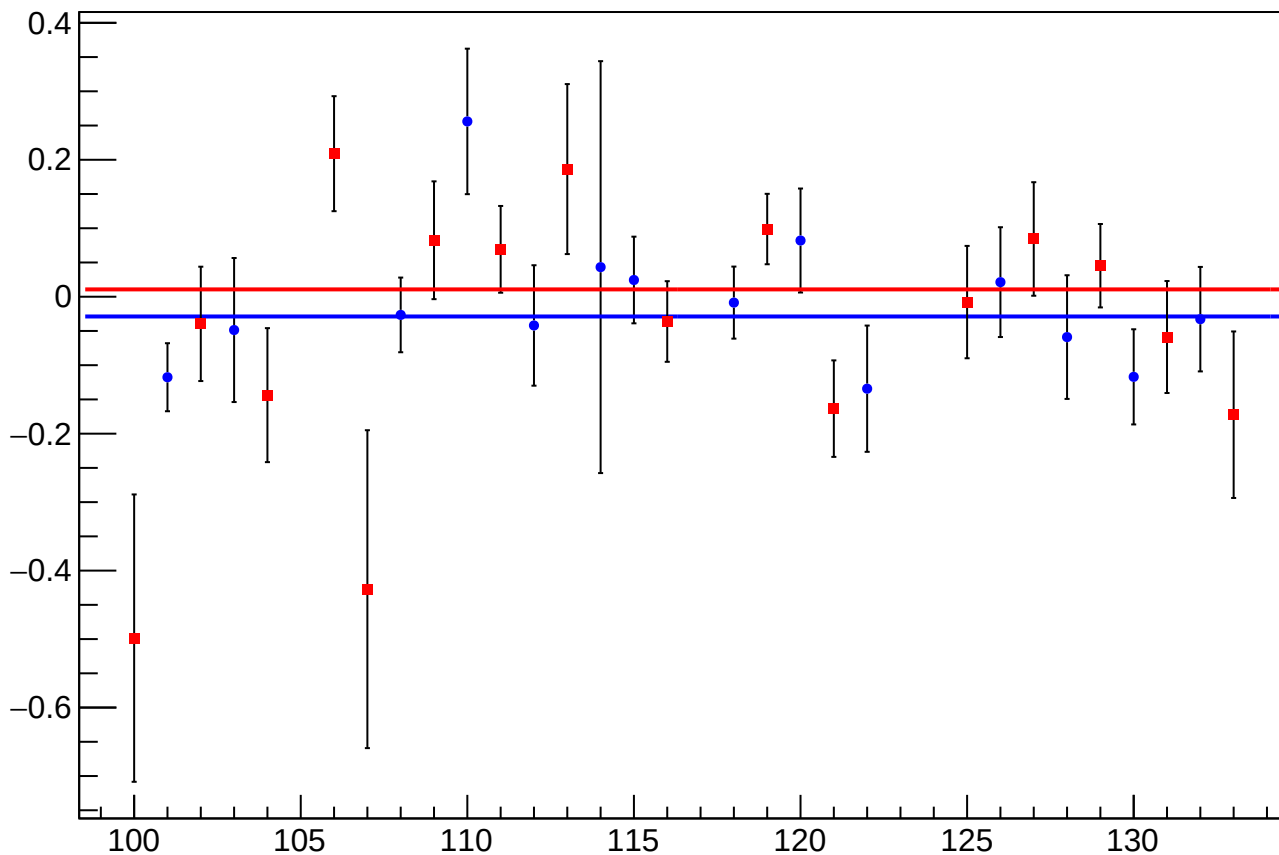
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 43.940+/-0.010  $\chi^2/\text{NDF}$ : 1830280.0/29

- 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: -0.029 $\pm$ 0.020  $\chi^2$ /NDF: 16.9/13

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

Right Out: 0.011 $\pm$ 0.020  $\chi^2$ /NDF: 35.3/15

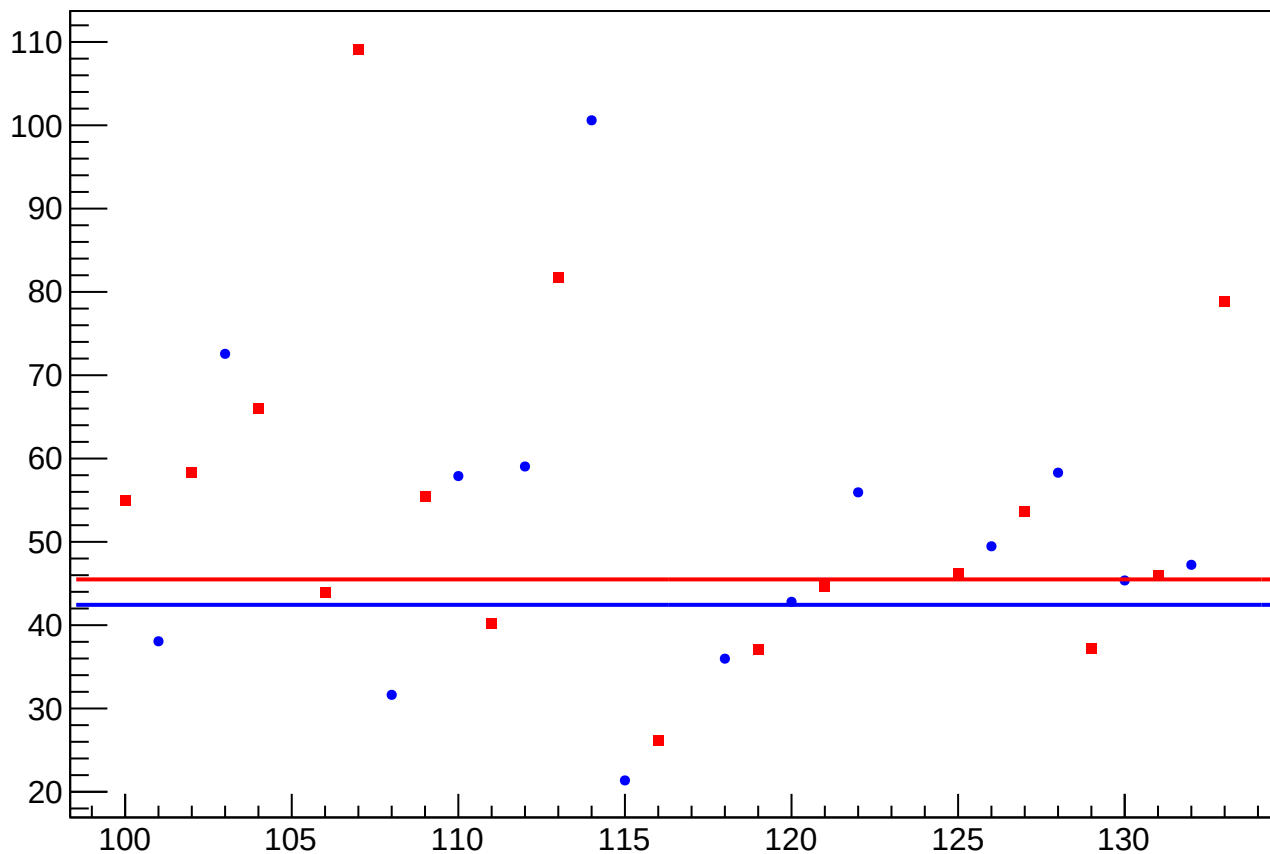
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.009 $\pm$ 0.014  $\chi^2$ /NDF: 54.2/29

- 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: 42.441+/-0.014  $\chi^2/\text{NDF}$ : 829992.0/13

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

Right Out: 45.493+/-0.014  $\chi^2/\text{NDF}$ : 976305.1/15

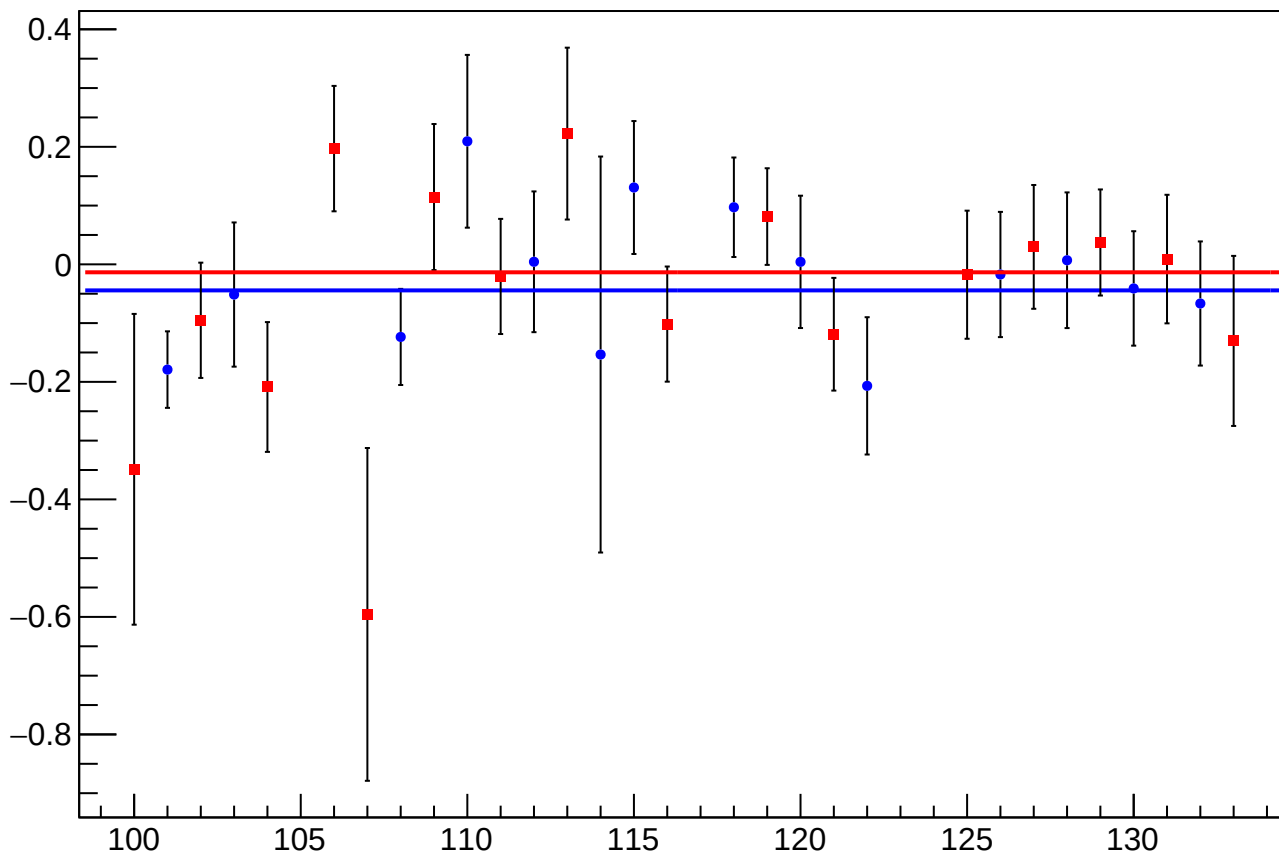
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 43.940+/-0.010  $\chi^2/\text{NDF}$ : 1830280.0/29

- 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: -0.044 $\pm$ 0.028  $\chi^2$ /NDF: 16.1/13

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

Right Out: -0.014 $\pm$ 0.028  $\chi^2$ /NDF: 21.7/15

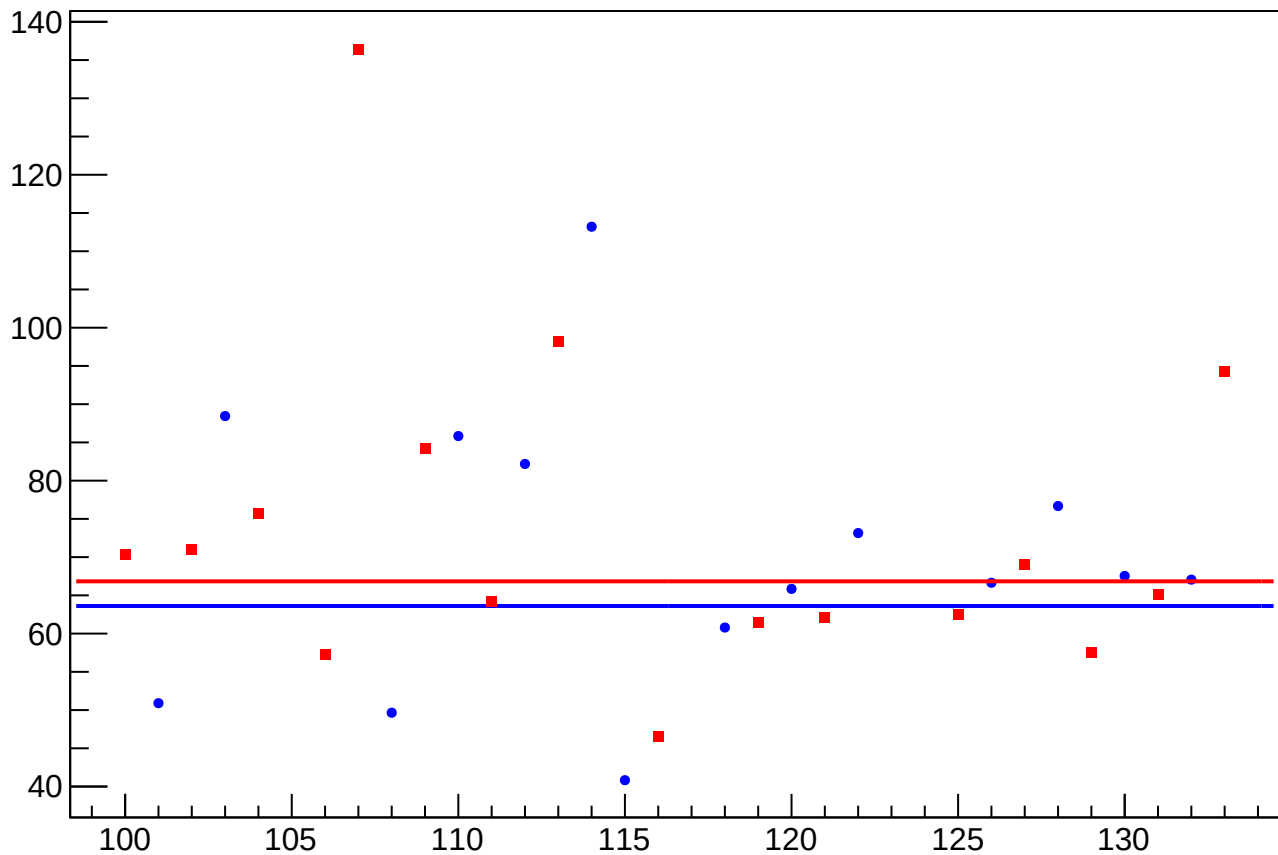
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.029 $\pm$ 0.020  $\chi^2$ /NDF: 38.5/29

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

asym\_usl\_eigen\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In: 63.609 $\pm$ 0.020  $\chi^2$ /NDF: 483575.4/13

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

Right Out: 66.834 $\pm$ 0.020  $\chi^2$ /NDF: 482732.8/15

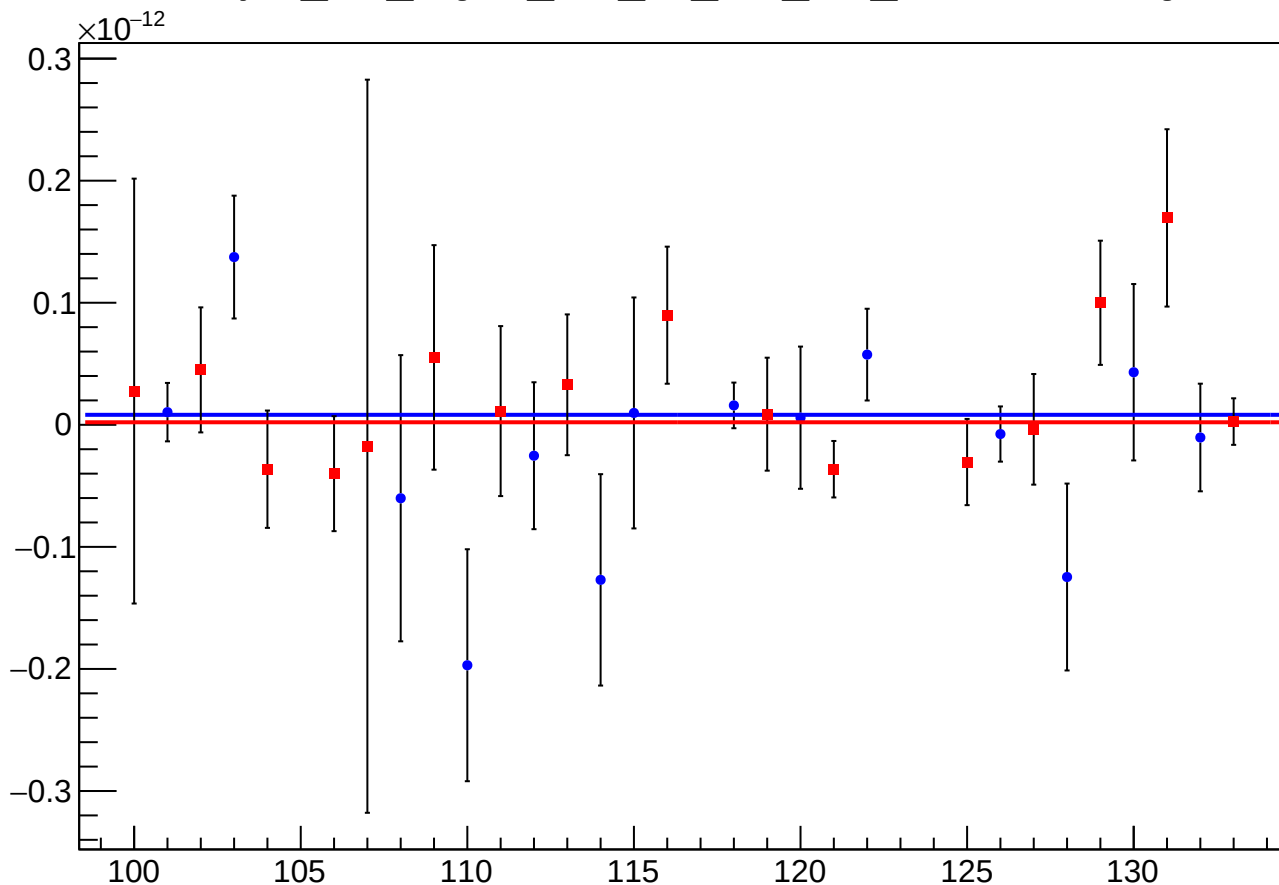
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 65.222 $\pm$ 0.014  $\chi^2$ /NDF: 979880.2/29

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

# asym\_usl\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 20.2/13

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

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.9/15

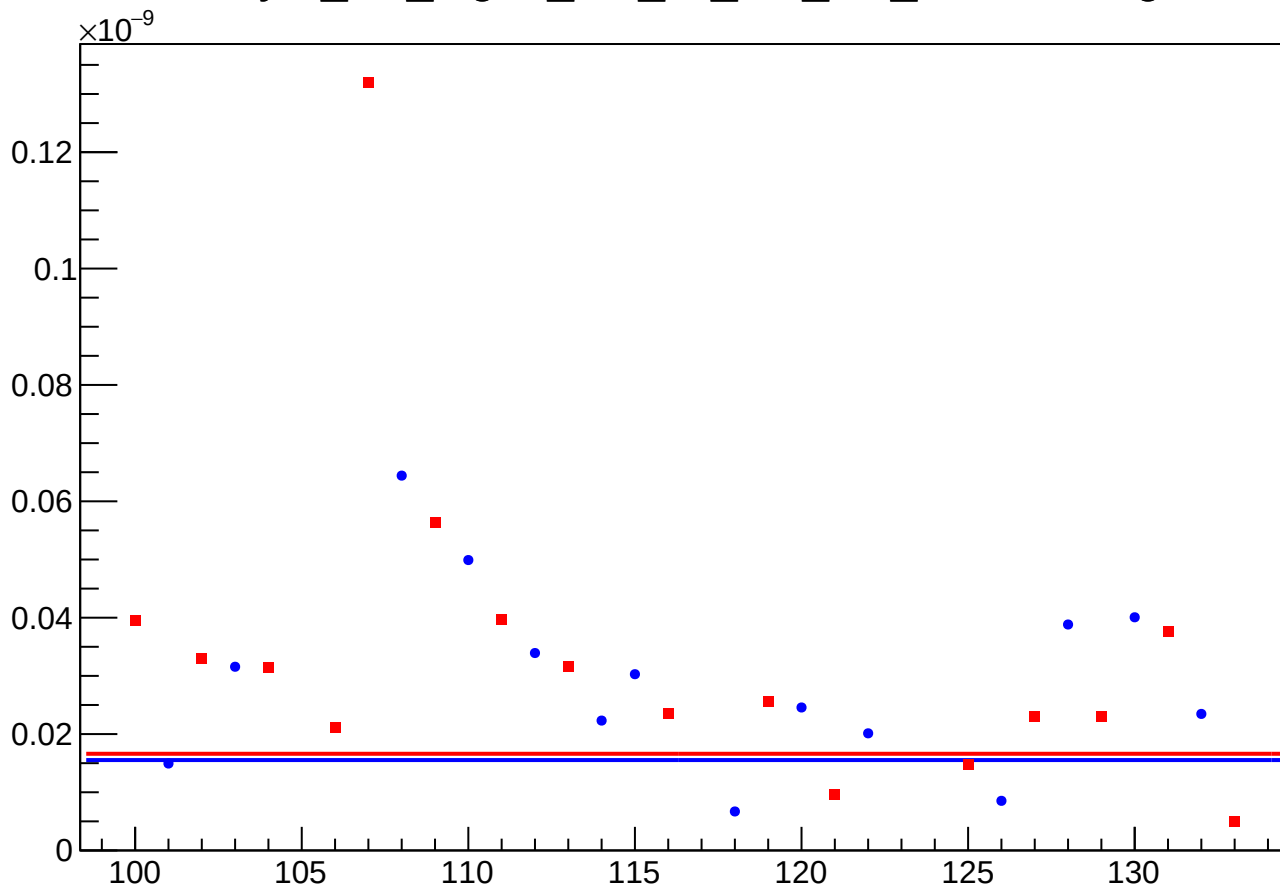
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 38.2/29

- 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  $\chi^2/\text{NDF}$ : 2258622.0/13

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2746676.5/15

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

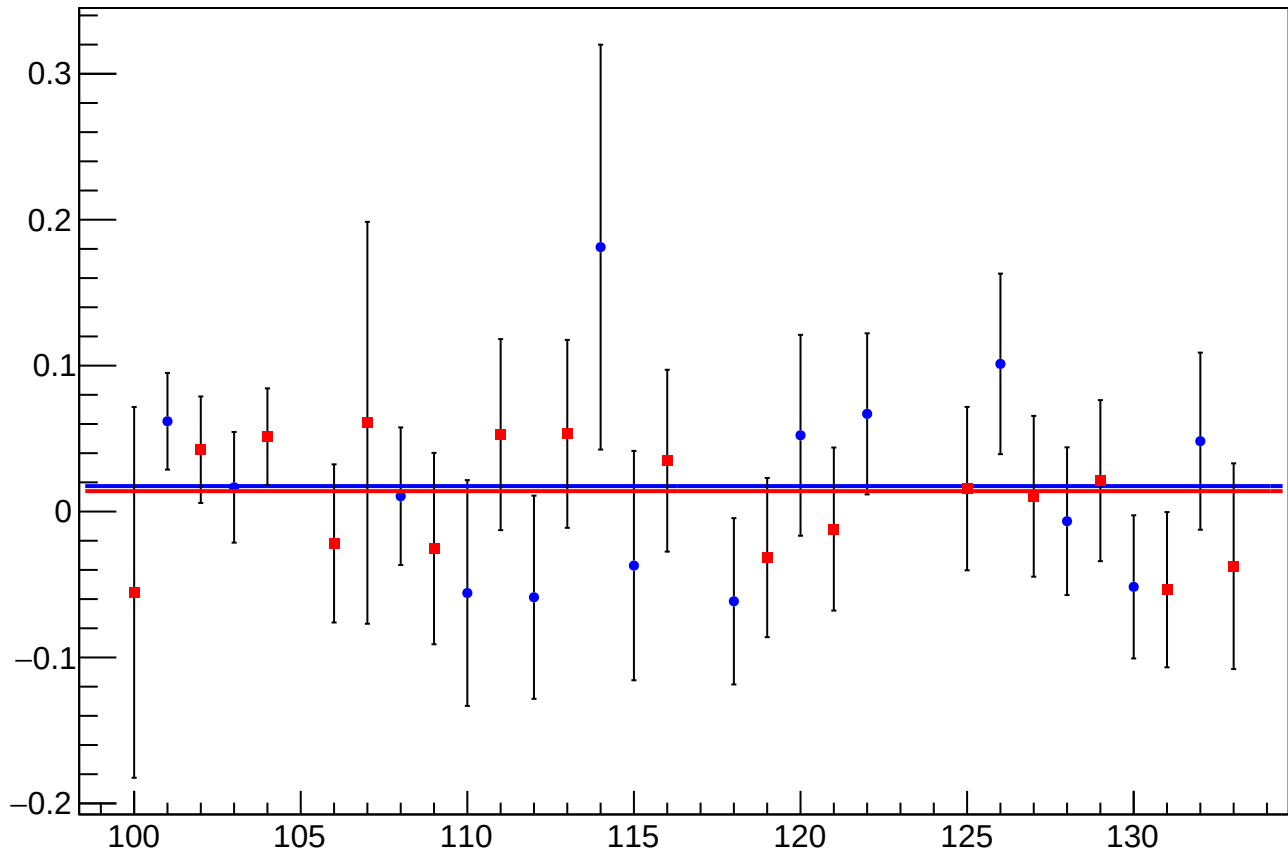
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5016247.9/29

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



asym\_usl\_overload\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.017 $\pm$ 0.014  $\chi^2$ /NDF: 13.1/13

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

Right Out: 0.014 $\pm$ 0.014  $\chi^2$ /NDF: 7.0/15

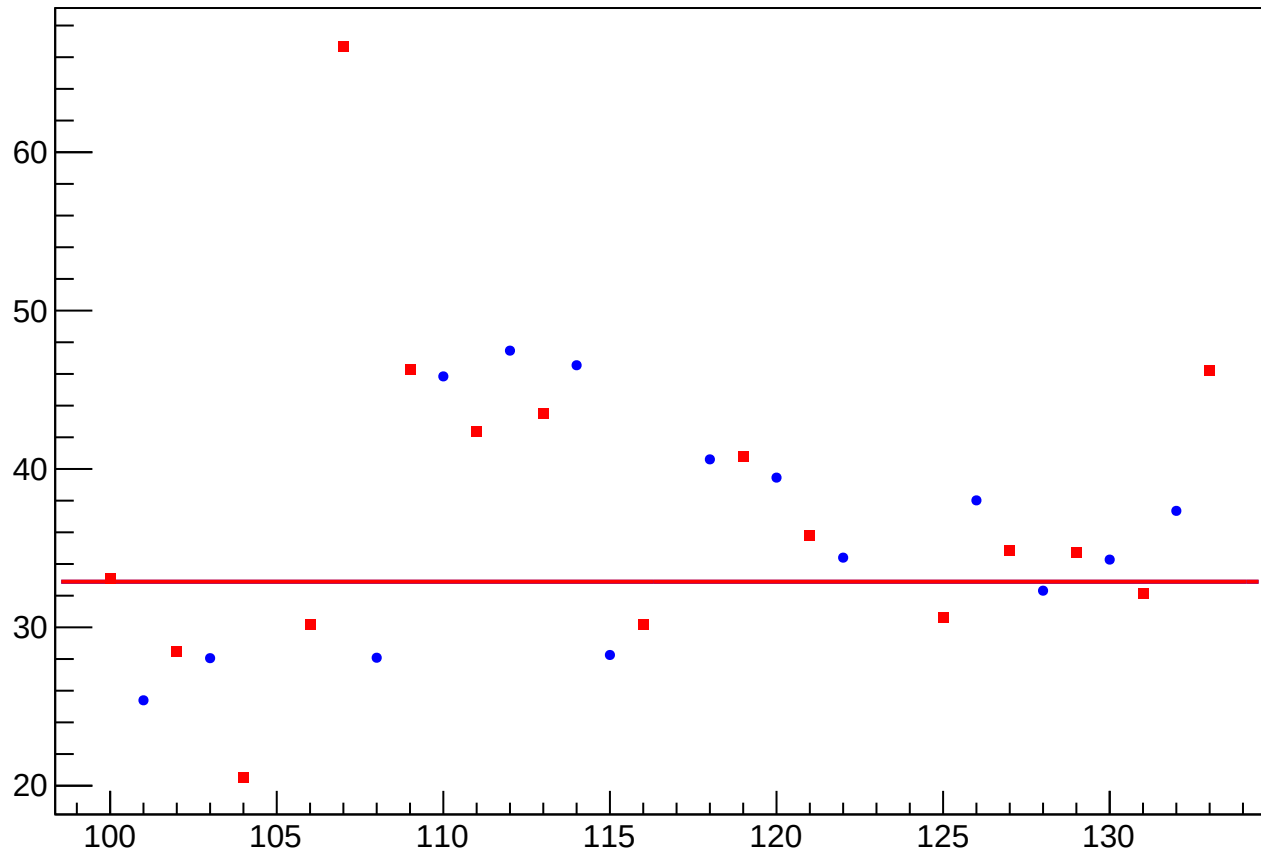
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.016 $\pm$ 0.010  $\chi^2$ /NDF: 20.1/29

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

# asym\_usl\_overload\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 32.877+/-0.010  $\chi^2/\text{NDF}$ : 408702.8/13

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

Right Out: 32.885+/-0.010  $\chi^2/\text{NDF}$ : 745217.3/15

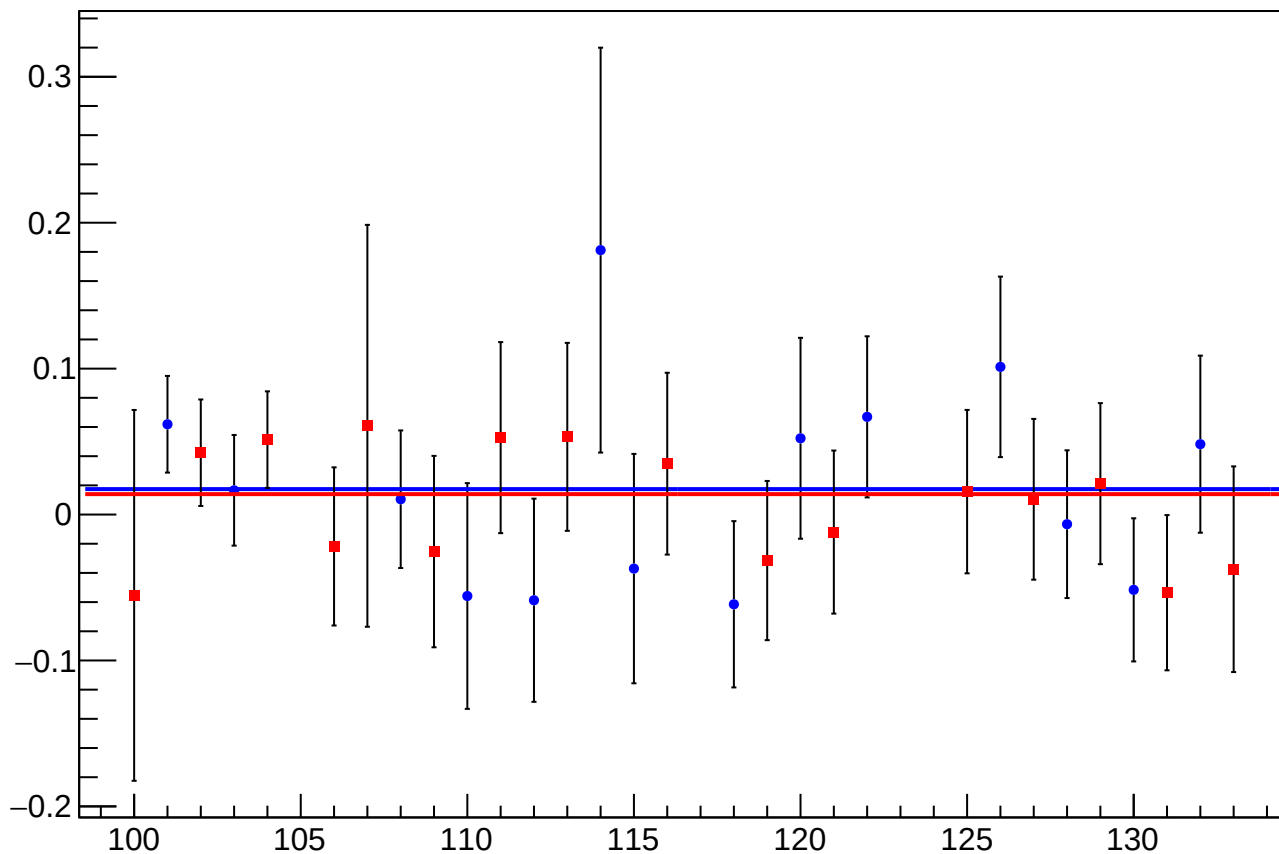
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 32.881+/-0.007  $\chi^2/\text{NDF}$ : 1153920.4/29

- 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: 0.017 $\pm$ 0.014  $\chi^2$ /NDF: 13.1/13

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

Right Out: 0.014 $\pm$ 0.014  $\chi^2$ /NDF: 7.0/15

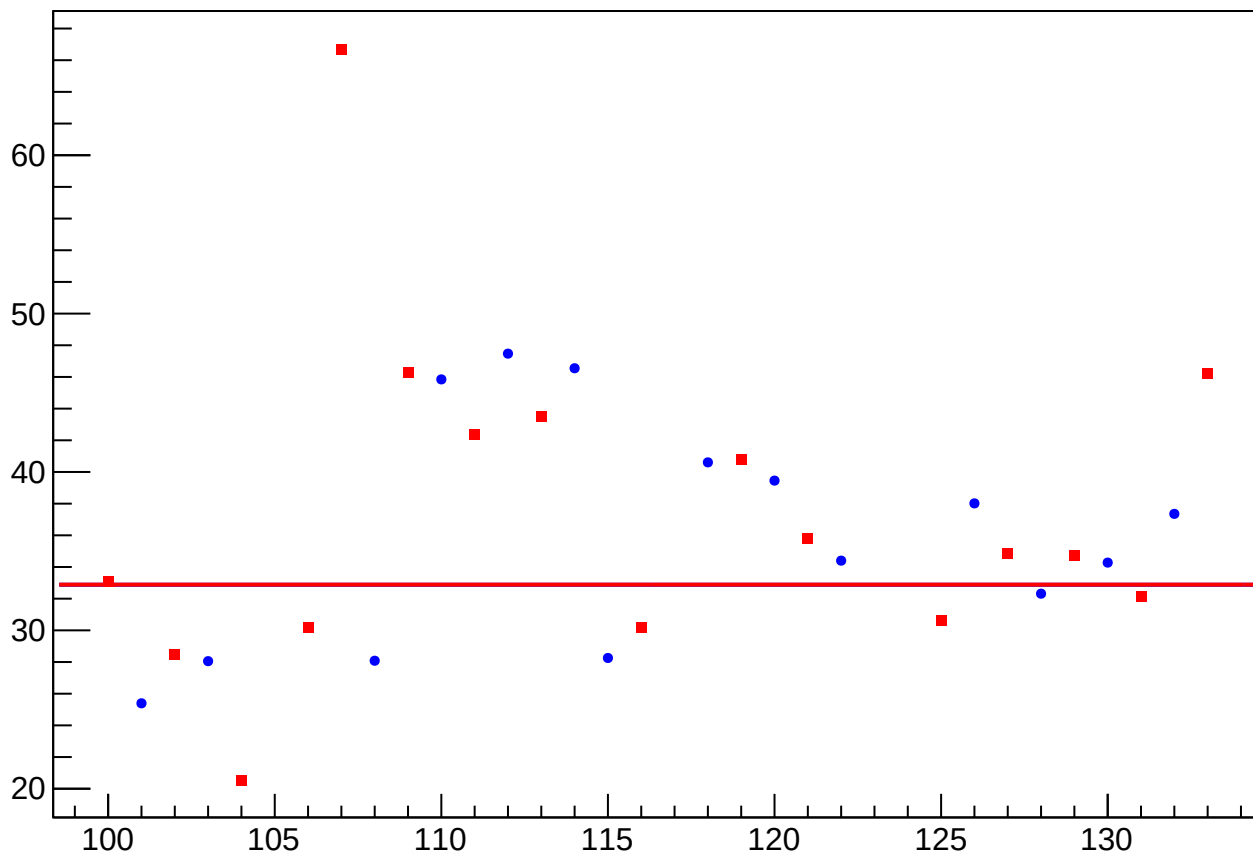
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.016 $\pm$ 0.010  $\chi^2$ /NDF: 20.1/29

- 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: 32.877+/-0.010  $\chi^2/\text{NDF}$ : 408702.8/13

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

Right Out: 32.885+/-0.010  $\chi^2/\text{NDF}$ : 745217.3/15

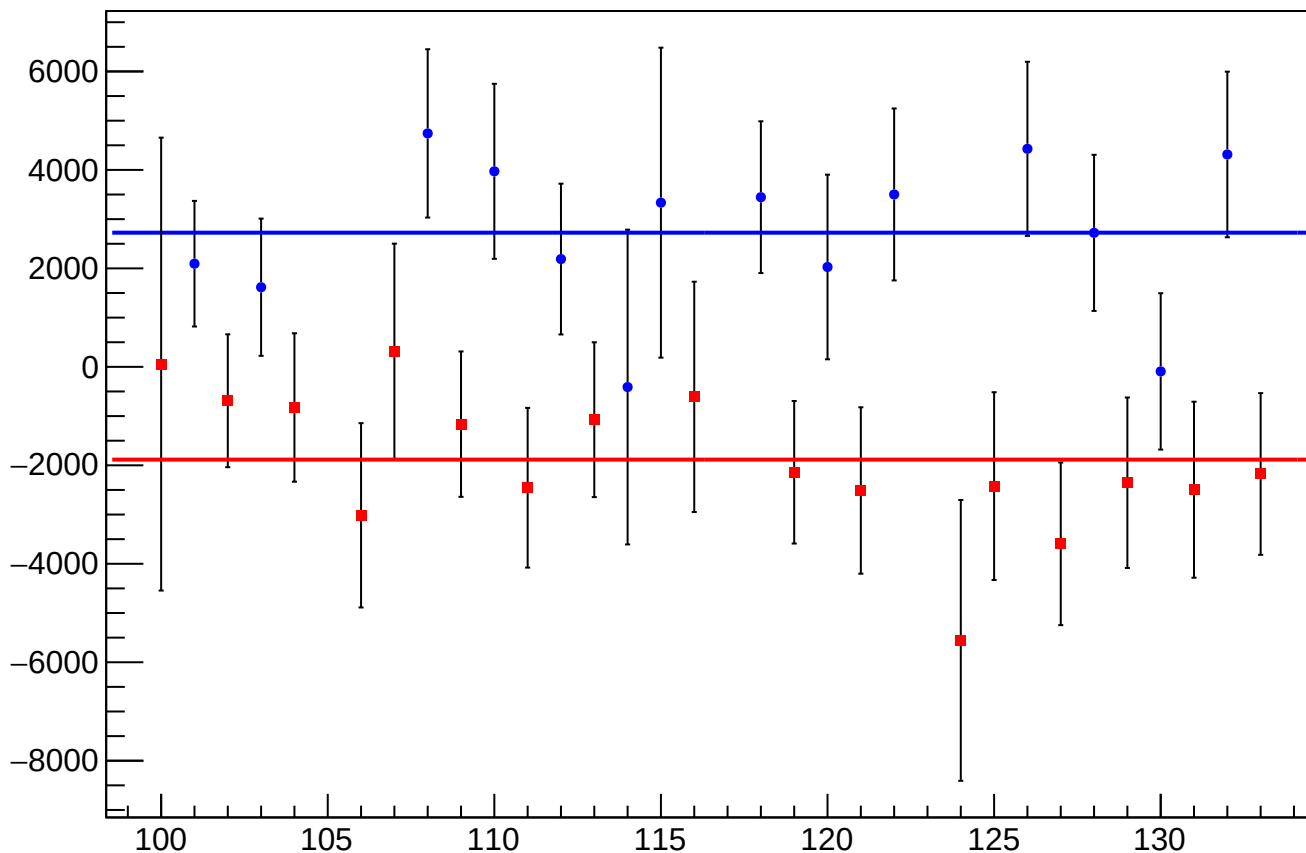
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 32.881+/-0.007  $\chi^2/\text{NDF}$ : 1153920.4/29

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

# reg\_asym\_usr\_mean vs Slug



Right In: 2725.337 $\pm$ 451.074  $\chi^2$ /NDF: 9.4/13

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

Right Out: -1883.984 $\pm$ 423.839  $\chi^2$ /NDF: 7.0/16

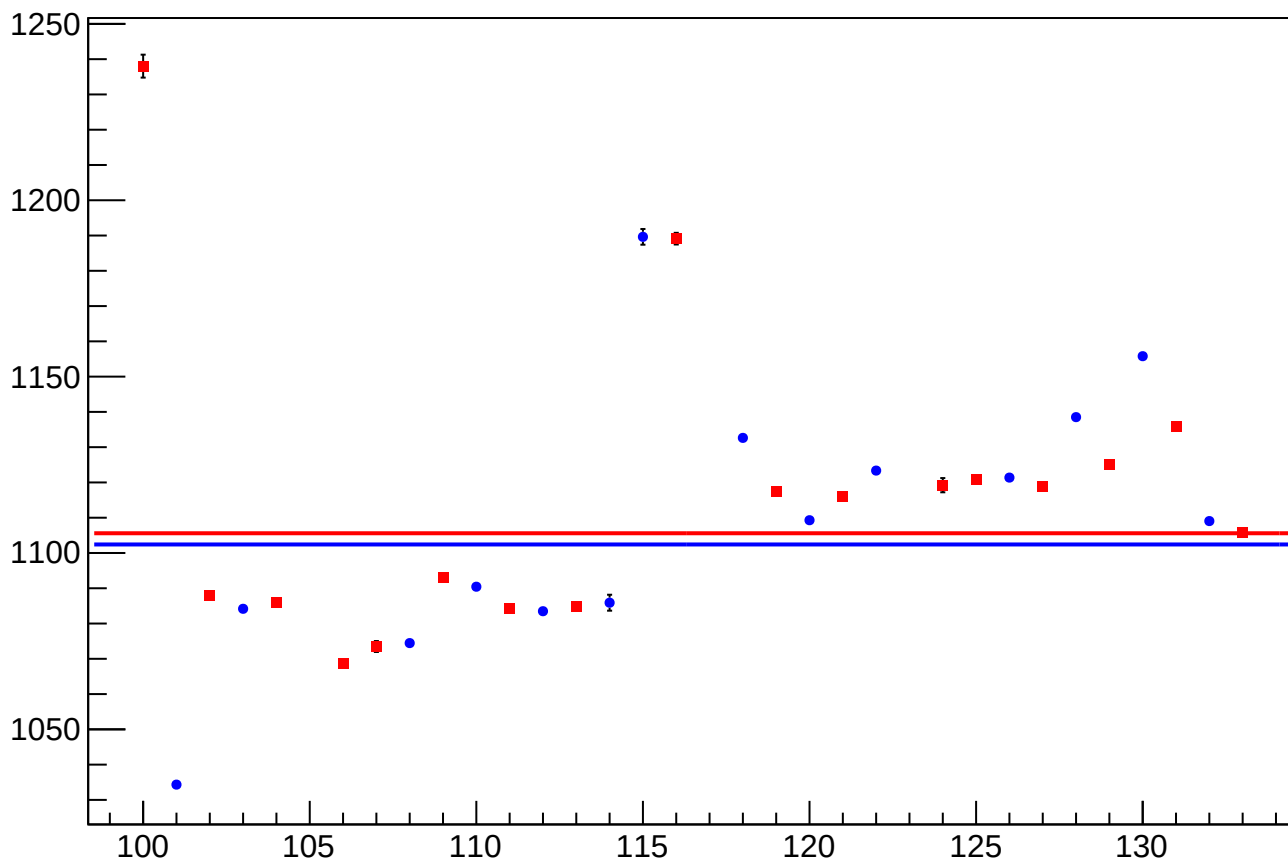
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 277.334 $\pm$ 308.879  $\chi^2$ /NDF: 71.8/30

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

# reg\_asym\_usr\_rms vs Slug



Right In: 1102.416+/-0.319  $\chi^2/\text{NDF}$ : 13201.5/13

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

Right Out: 1105.596+/-0.300  $\chi^2/\text{NDF}$ : 8280.5/16

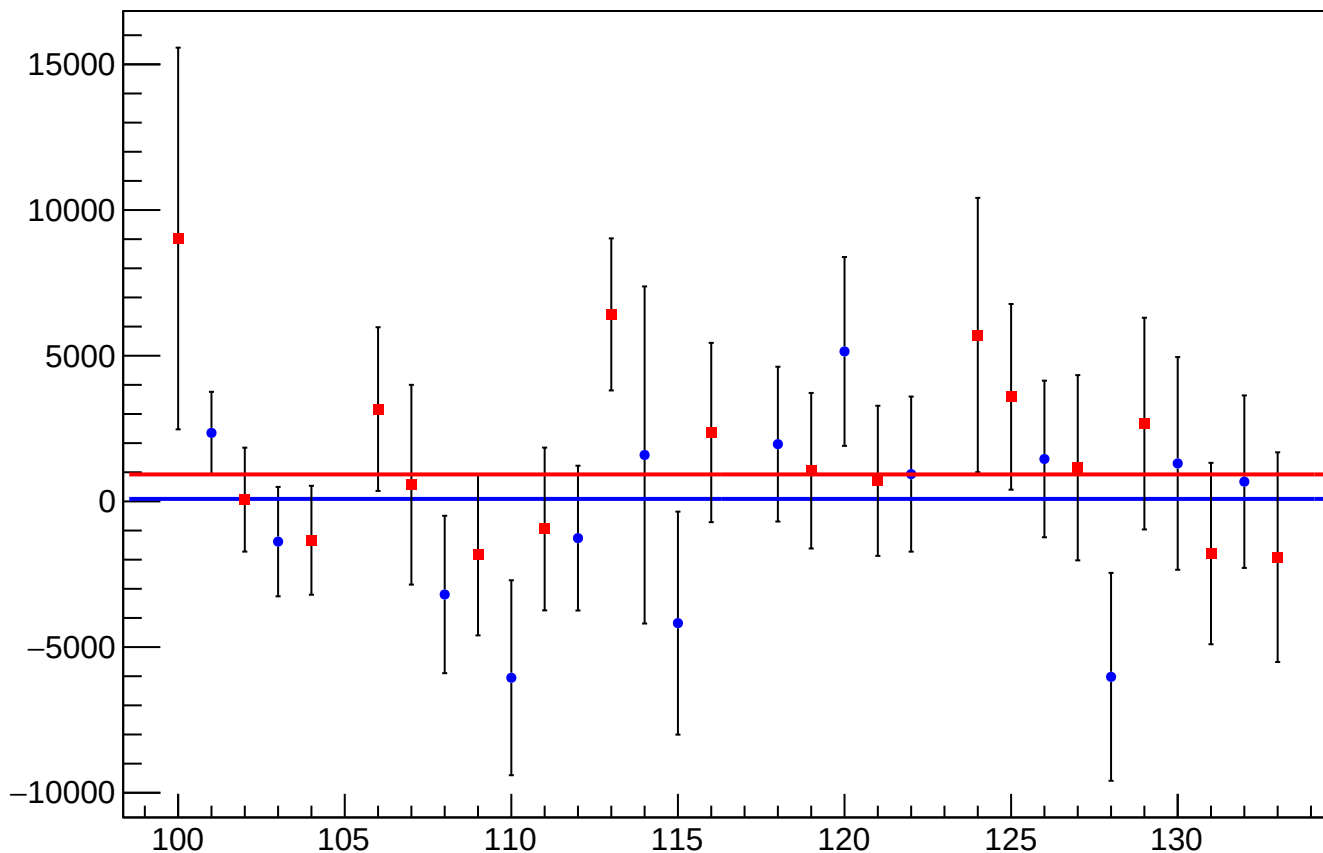
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1104.105+/-0.218  $\chi^2/\text{NDF}$ : 21534.8/30

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

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



Right In: 85.651+/-697.105  $\chi^2/\text{NDF}$ : 16.0/13

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

Right Out: 926.327+/-684.156  $\chi^2/\text{NDF}$ : 13.3/16

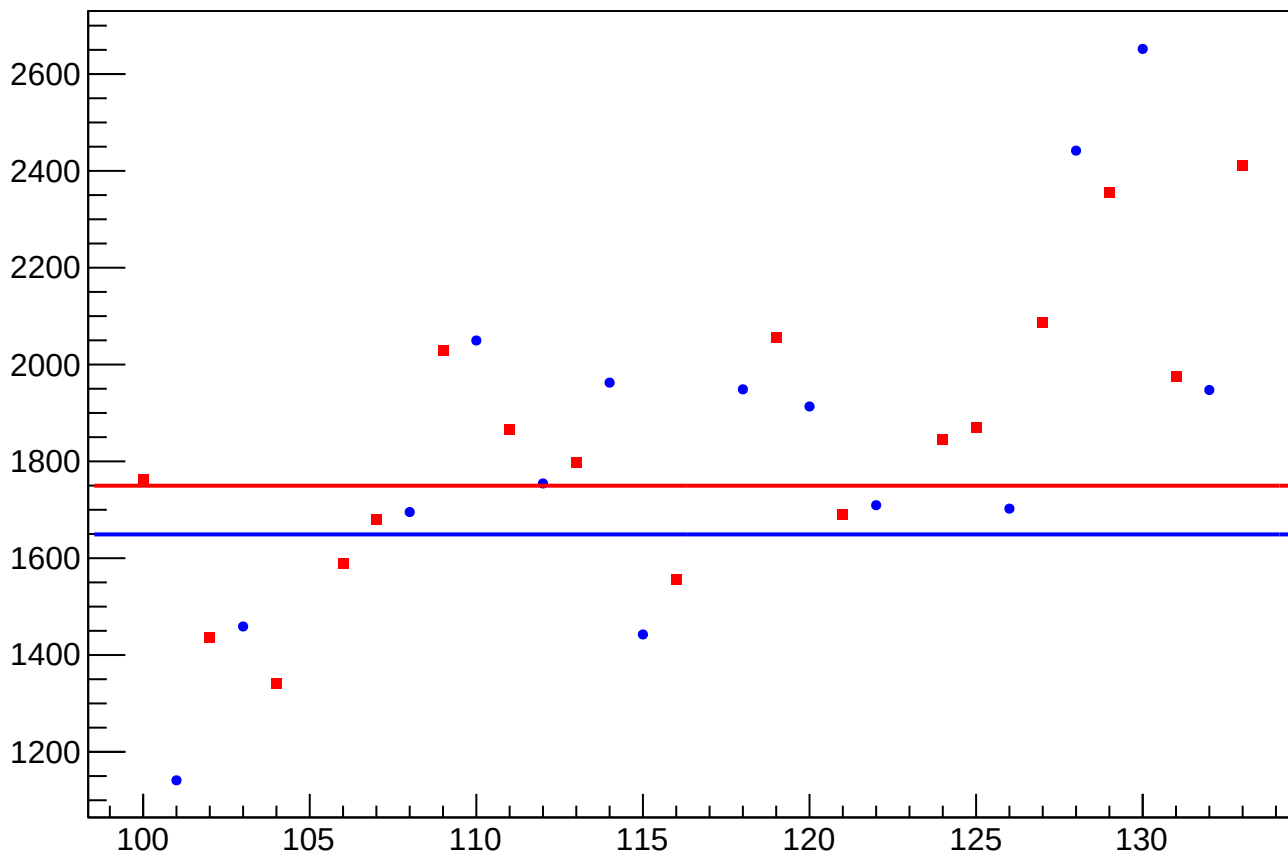
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 513.870+/-488.285  $\chi^2/\text{NDF}$ : 30.1/30

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

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



Right In: 1649.124+/-0.493  $\chi^2/\text{NDF}$ : 635334.1/13

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: 1749.763+/-0.484  $\chi^2/\text{NDF}$ : 384217.7/16

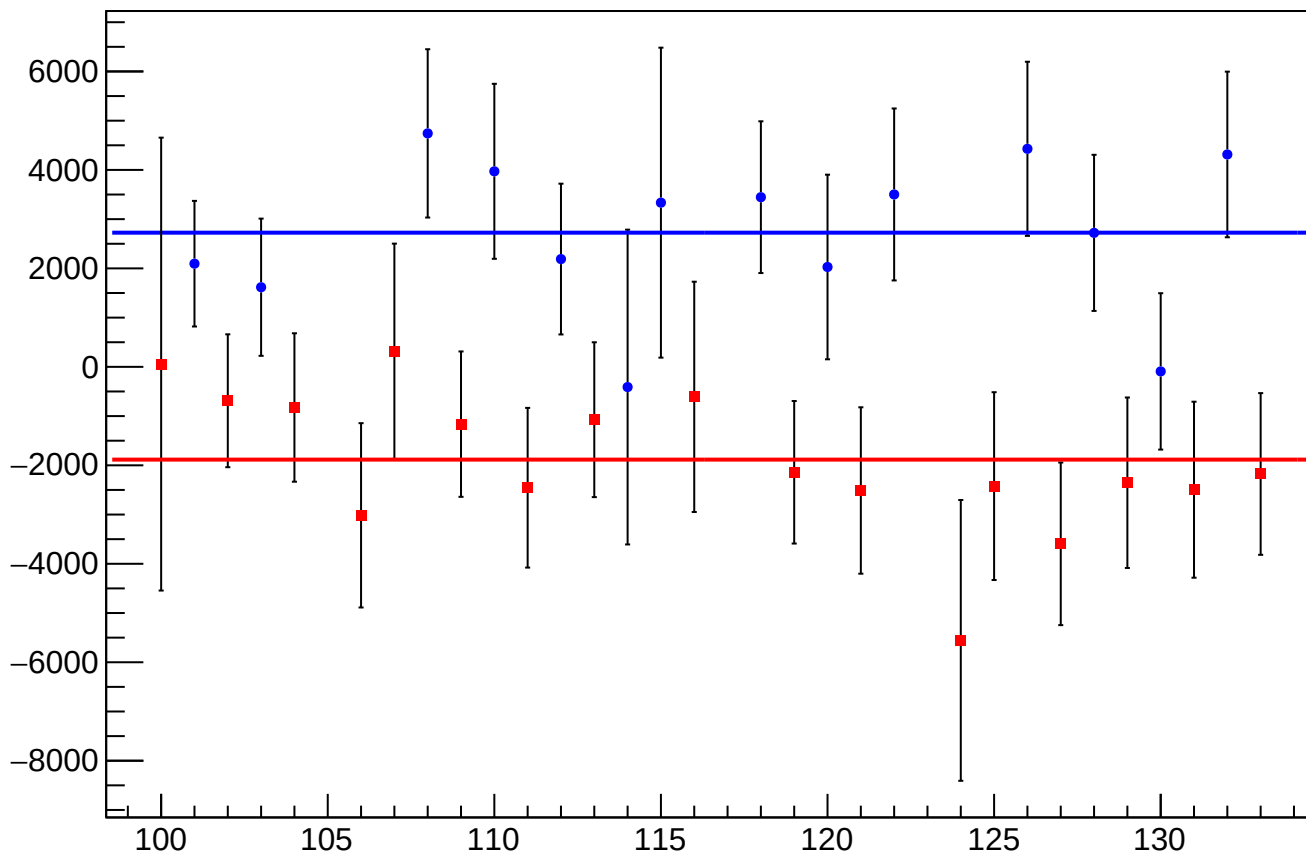
All: 1700.387+/-0.345  $\chi^2/\text{NDF}$ : 1040784.6/30

- 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\_mean vs Slug



Right In: 2725.337 $\pm$ 451.074  $\chi^2$ /NDF: 9.4/13

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

Right Out: -1883.984 $\pm$ 423.839  $\chi^2$ /NDF: 7.0/16

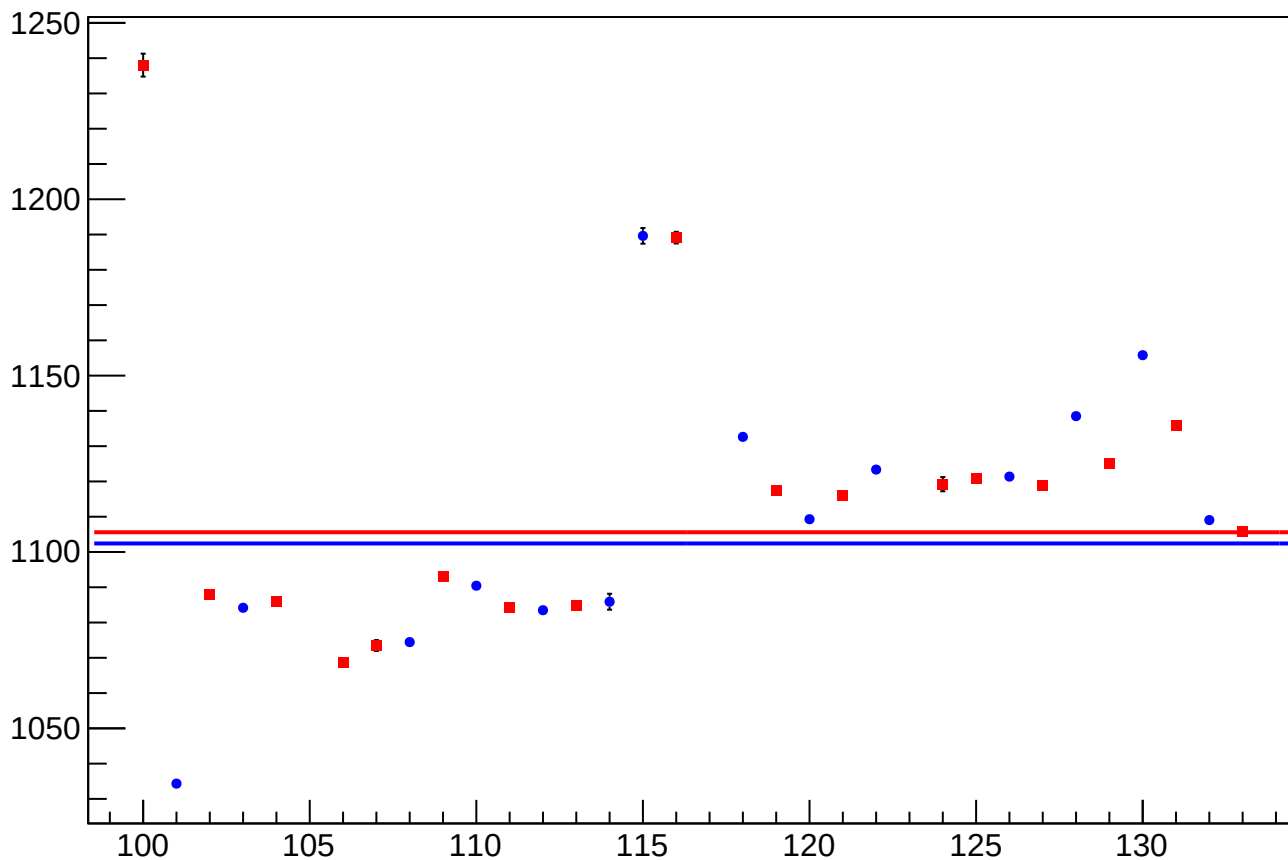
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 277.334 $\pm$ 308.879  $\chi^2$ /NDF: 71.8/30

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

# cor\_asym\_usr\_rms vs Slug



Right In: 1102.416 $\pm$ 0.319  $\chi^2$ /NDF: 13201.5/13

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

Right Out: 1105.596 $\pm$ 0.300  $\chi^2$ /NDF: 8280.5/16

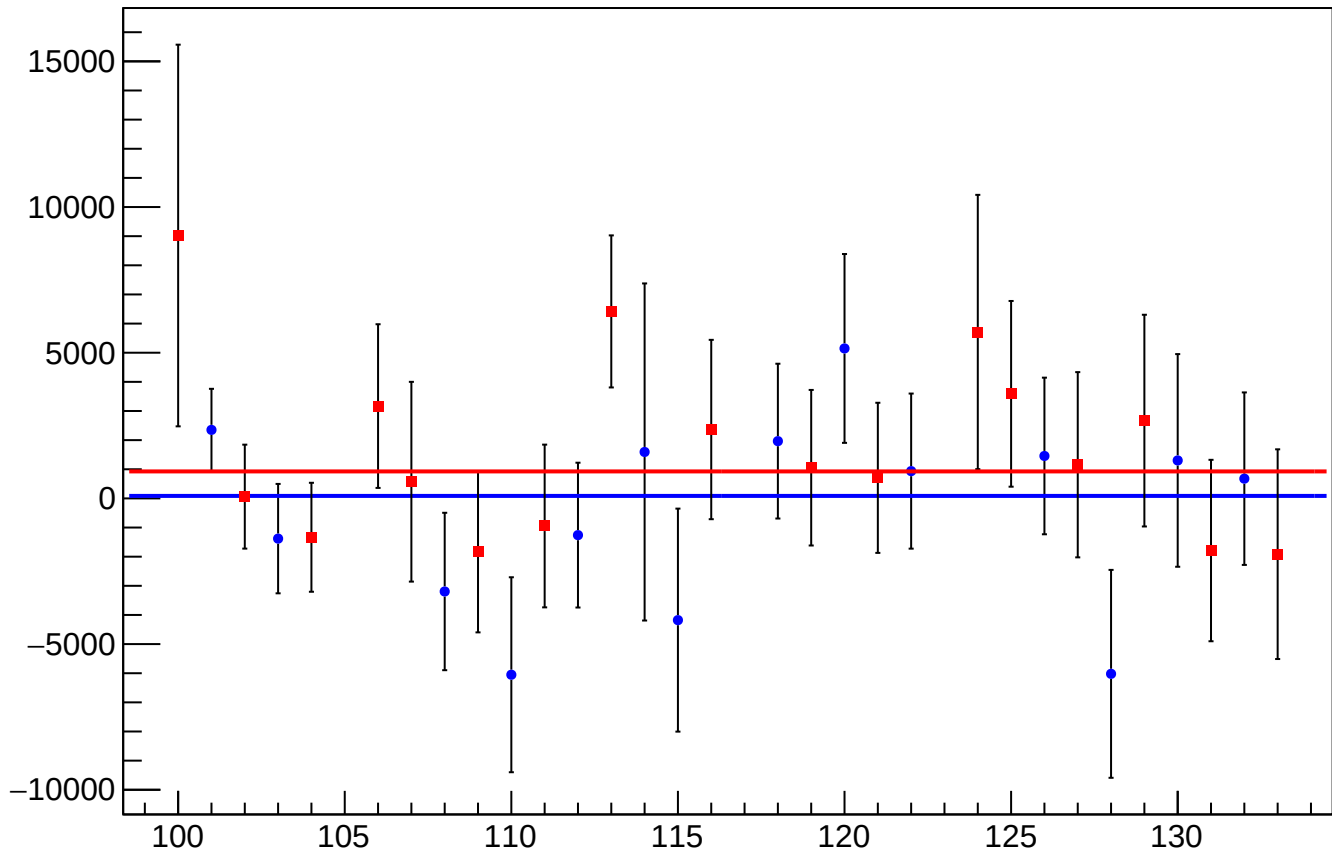
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1104.105 $\pm$ 0.218  $\chi^2$ /NDF: 21534.8/30

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

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



Right In: 85.651+/-697.105  $\chi^2/\text{NDF}$ : 16.0/13

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

Right Out: 926.327+/-684.156  $\chi^2/\text{NDF}$ : 13.3/16

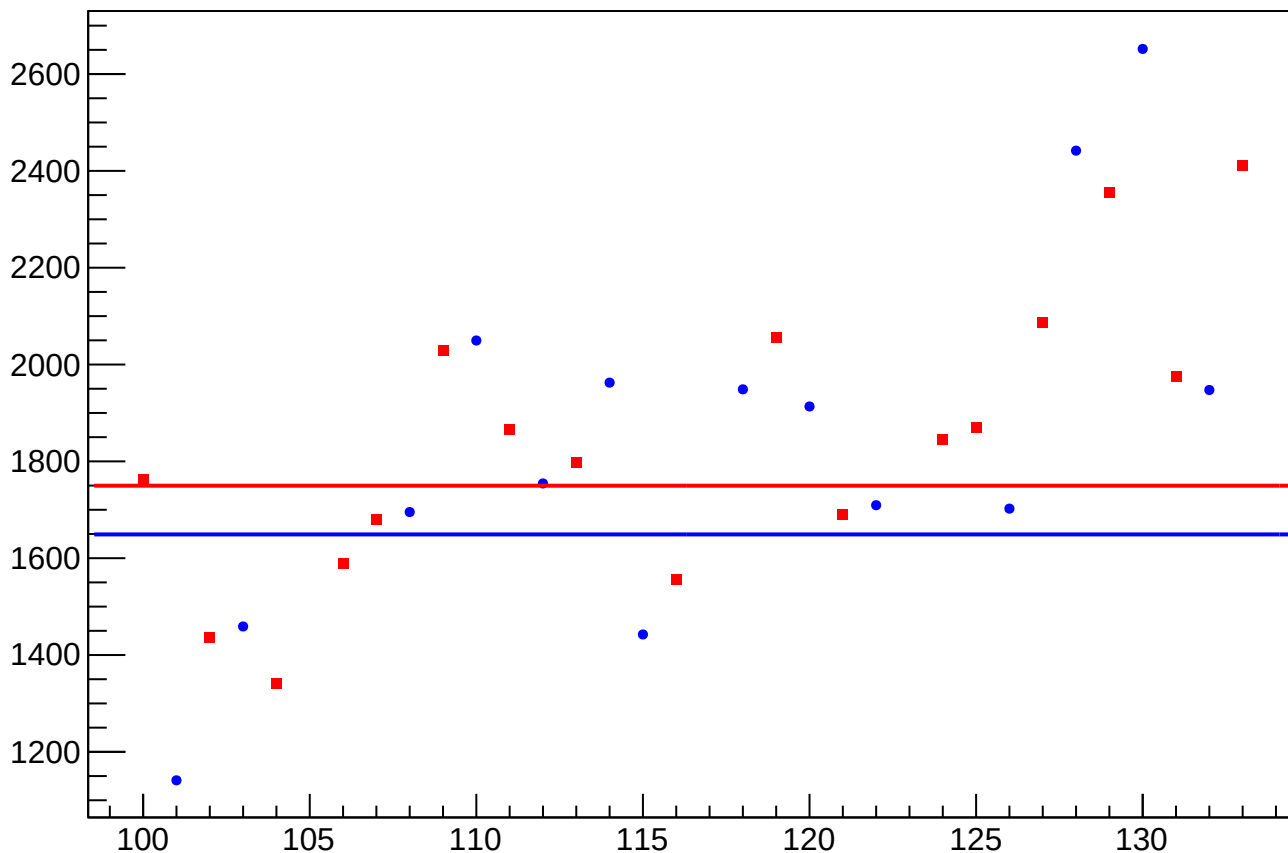
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 513.870+/-488.285  $\chi^2/\text{NDF}$ : 30.1/30

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

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



Right In: 1649.124+/-0.493  $\chi^2/\text{NDF}$ : 635334.1/13

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

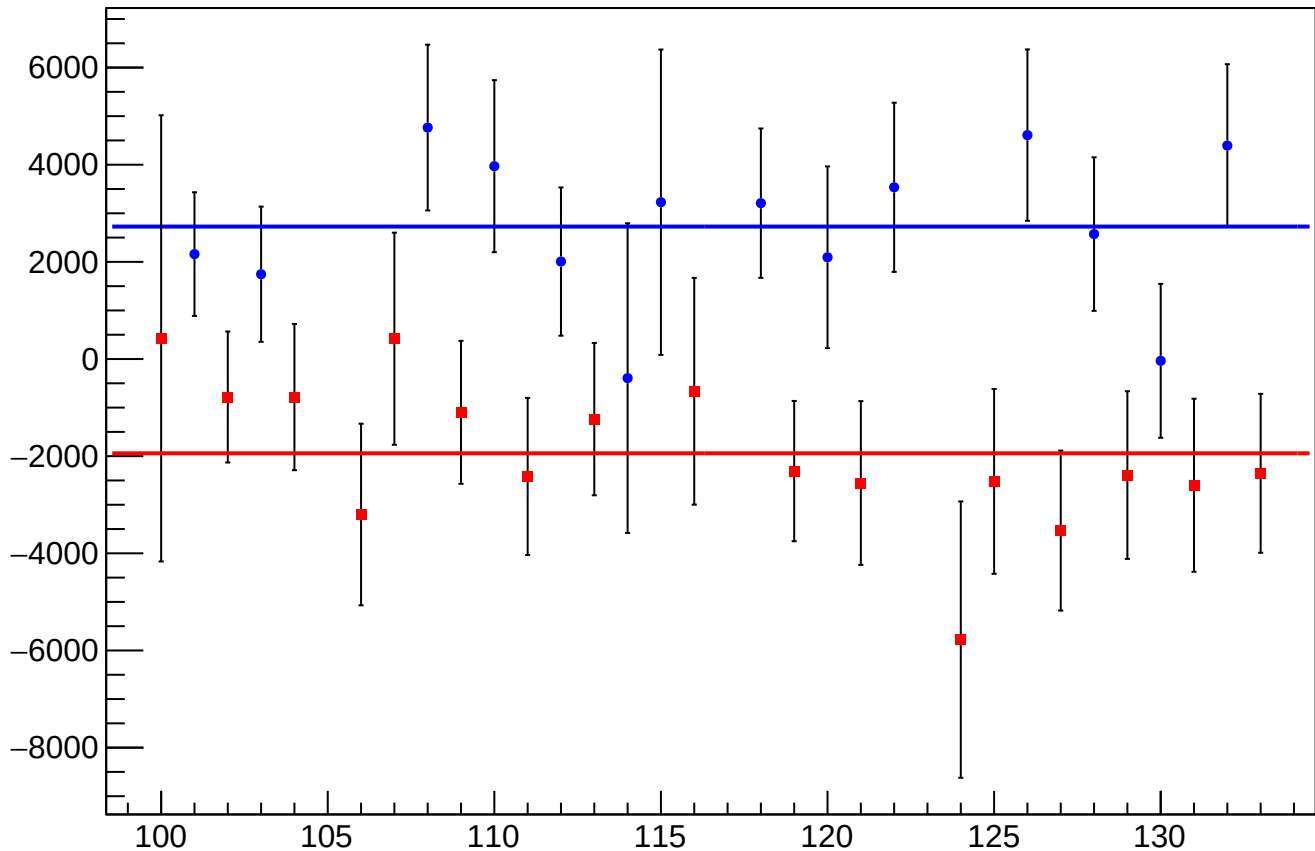
Right Out: 1749.763+/-0.484  $\chi^2/\text{NDF}$ : 384217.7/16

All: 1700.387+/-0.345  $\chi^2/\text{NDF}$ : 1040784.6/30

- 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

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



Right In: 2726.843 $\pm$ 449.961  $\chi^2$ /NDF: 9.4/13

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

Right Out: -1940.899 $\pm$ 422.817  $\chi^2$ /NDF: 7.4/16

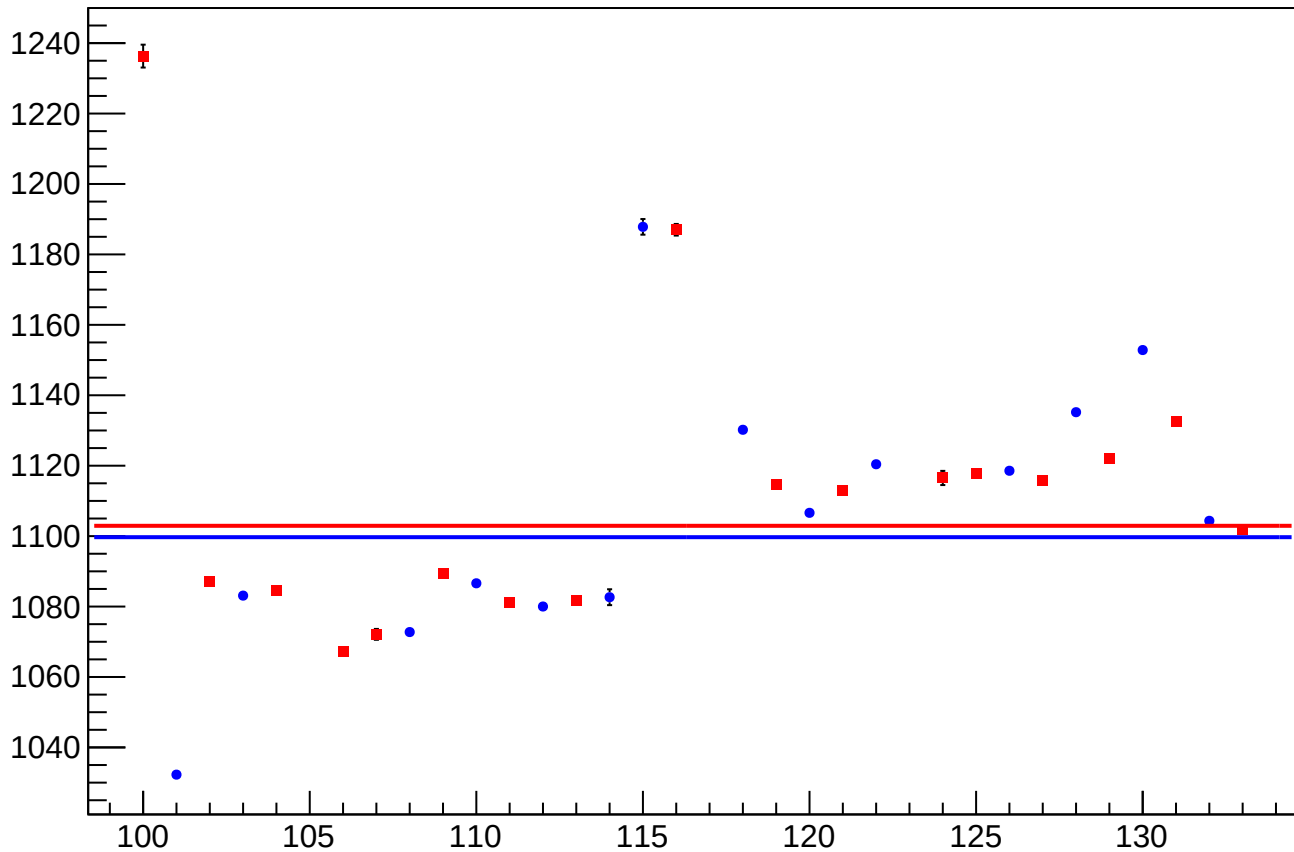
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 247.939 $\pm$ 308.126  $\chi^2$ /NDF: 74.0/30

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

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



Right In: 1099.700+/-0.318  $\chi^2/\text{NDF}$ : 13065.7/13

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

Right Out: 1102.932+/-0.299  $\chi^2/\text{NDF}$ : 8166.8/16

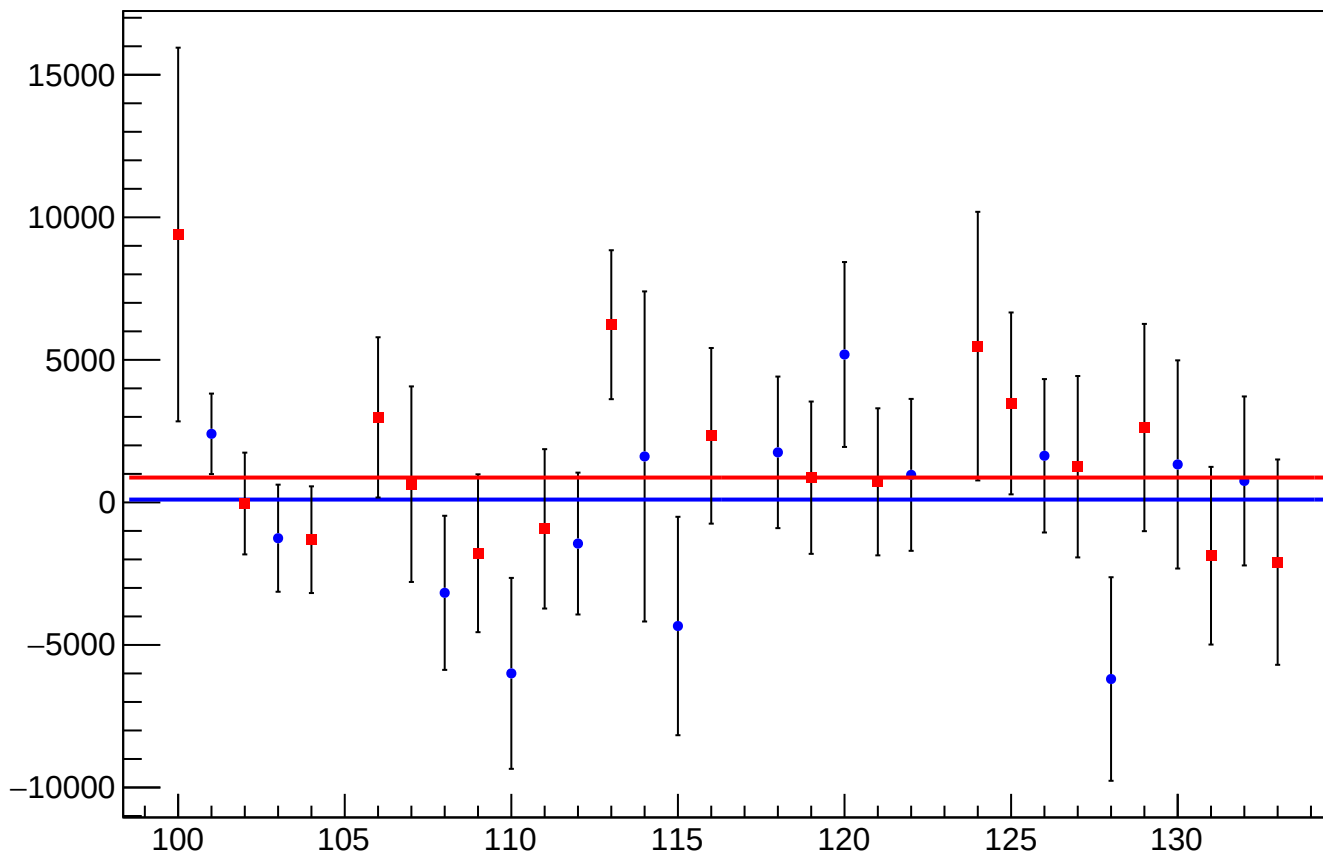
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1101.417+/-0.218  $\chi^2/\text{NDF}$ : 21287.2/30

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

asym\_usr\_overload\_cor\_correction\_mean vs Slug



Right In: 99.544+/-697.852  $\chi^2/\text{NDF}$ : 16.3/13

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

Right Out: 872.016+/-684.726  $\chi^2/\text{NDF}$ : 13.0/16

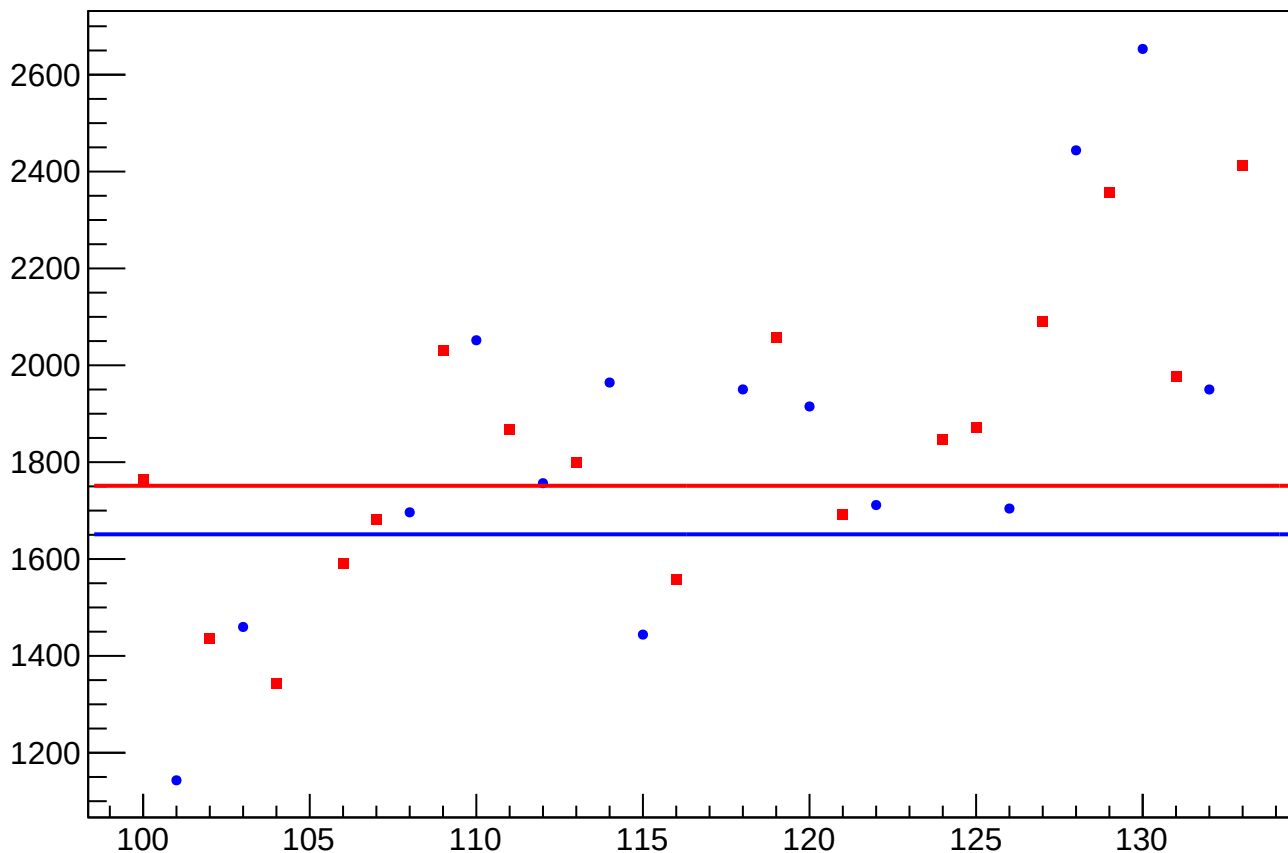
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 493.113+/-488.749  $\chi^2/\text{NDF}$ : 29.9/30

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

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



Right In: 1651.005+/-0.493  $\chi^2/\text{NDF}$ : 634066.1/13

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

Right Out: 1751.229+/-0.484  $\chi^2/\text{NDF}$ : 384432.9/16

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

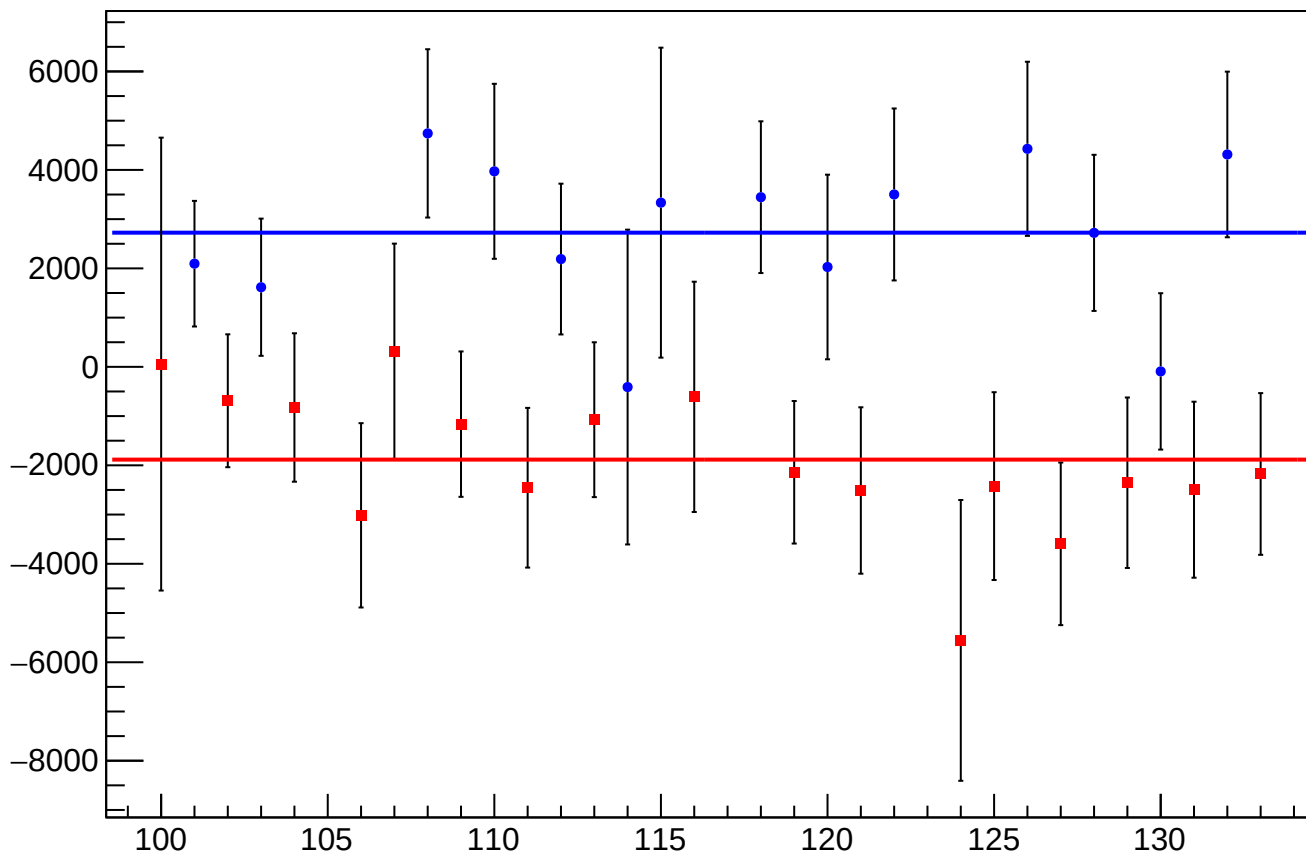
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1702.068+/-0.346  $\chi^2/\text{NDF}$ : 1039516.6/30

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



# eigen\_cor\_asym\_usr\_mean vs Slug



Right In: 2725.337 $\pm$ 451.074  $\chi^2$ /NDF: 9.4/13

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

Right Out: -1883.984 $\pm$ 423.839  $\chi^2$ /NDF: 7.0/16

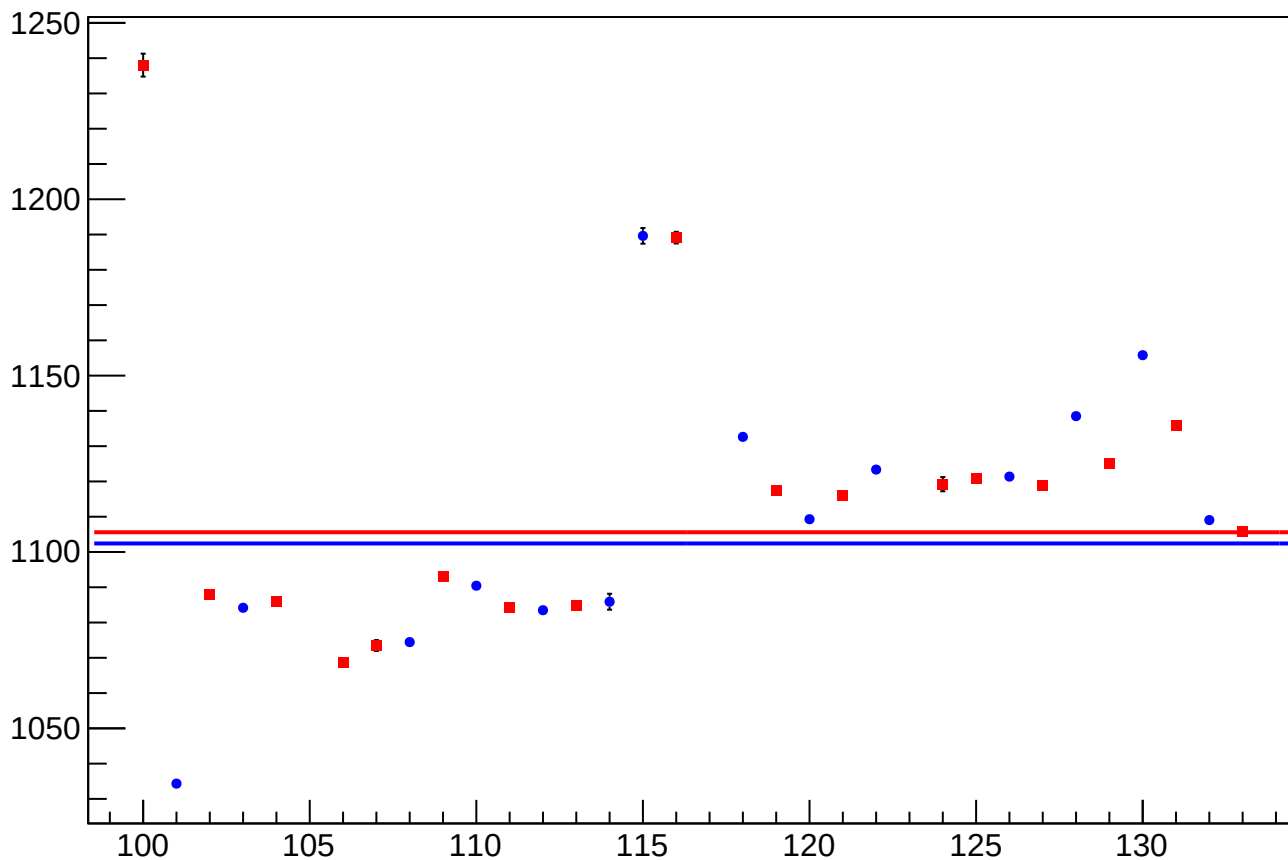
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 277.334 $\pm$ 308.879  $\chi^2$ /NDF: 71.8/30

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

# eigen\_cor\_asym\_usr\_rms vs Slug



Right In: 1102.416+/-0.319  $\chi^2/\text{NDF}$ : 13201.5/13

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

Right Out: 1105.596+/-0.300  $\chi^2/\text{NDF}$ : 8280.5/16

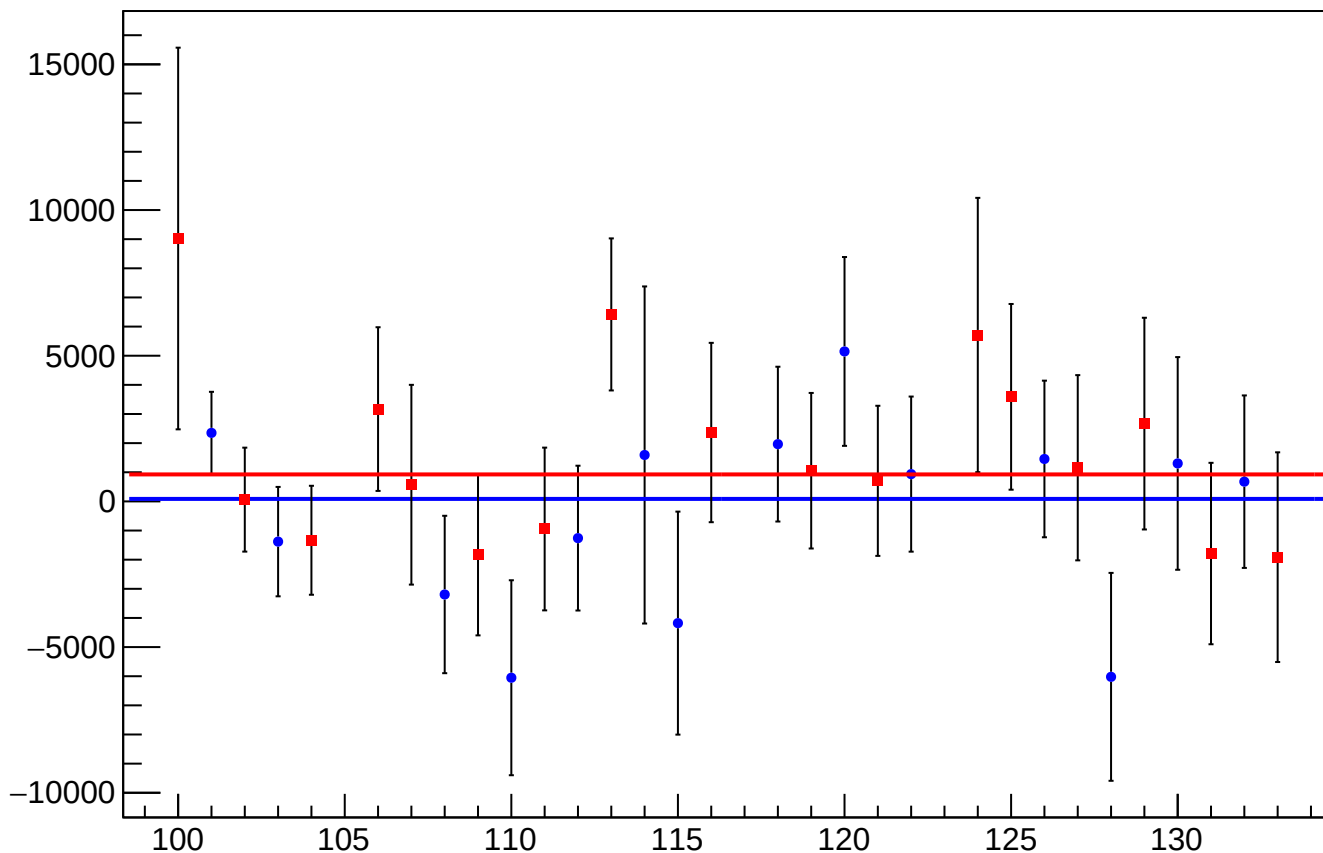
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1104.105+/-0.218  $\chi^2/\text{NDF}$ : 21534.8/30

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

# asym\_usr\_eigen\_cor\_correction\_mean vs Slug



Right In: 85.651+/-697.105  $\chi^2/\text{NDF}$ : 16.0/13

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

Right Out: 926.327+/-684.156  $\chi^2/\text{NDF}$ : 13.3/16

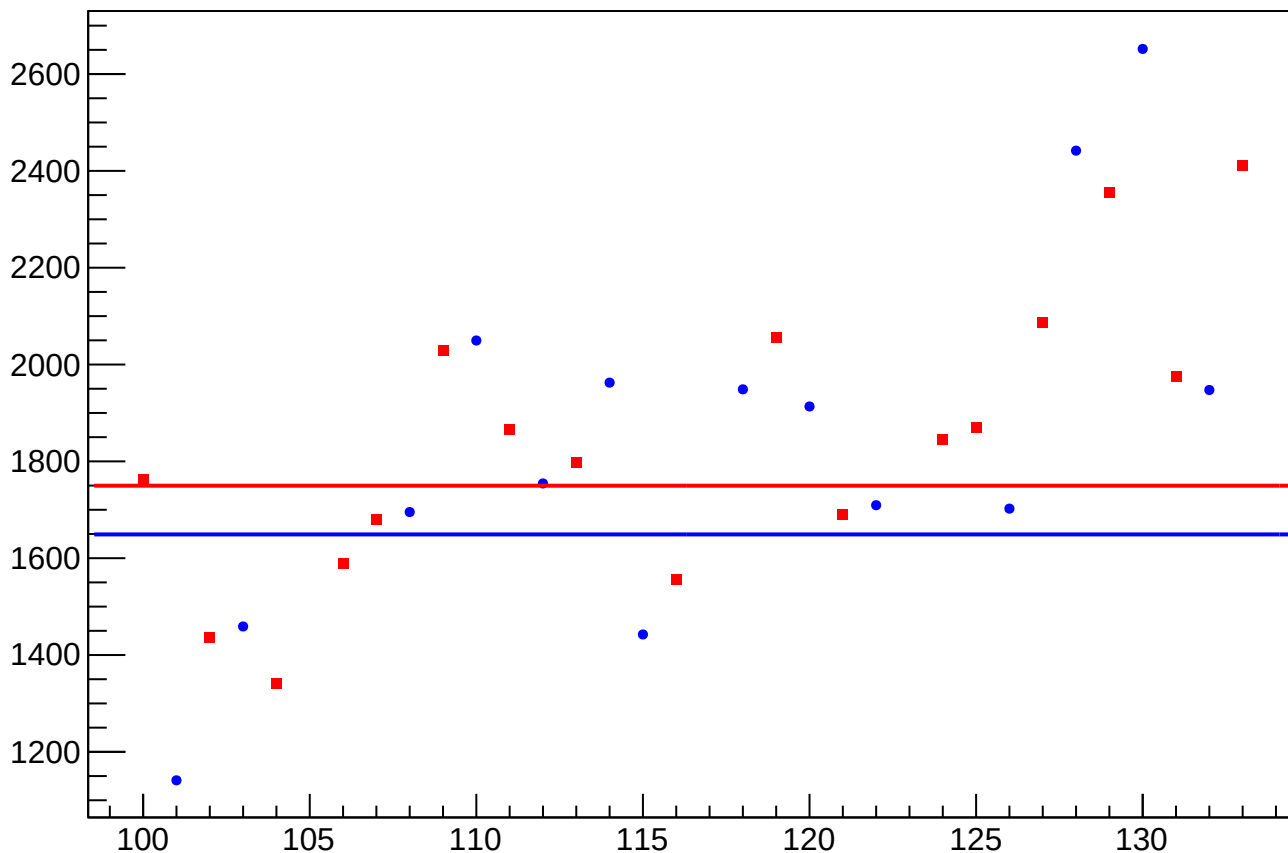
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 513.870+/-488.285  $\chi^2/\text{NDF}$ : 30.1/30

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

# asym\_usr\_eigen\_cor\_correction\_rms vs Slug



Right In: 1649.124+/-0.493  $\chi^2/\text{NDF}$ : 635334.1/13

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

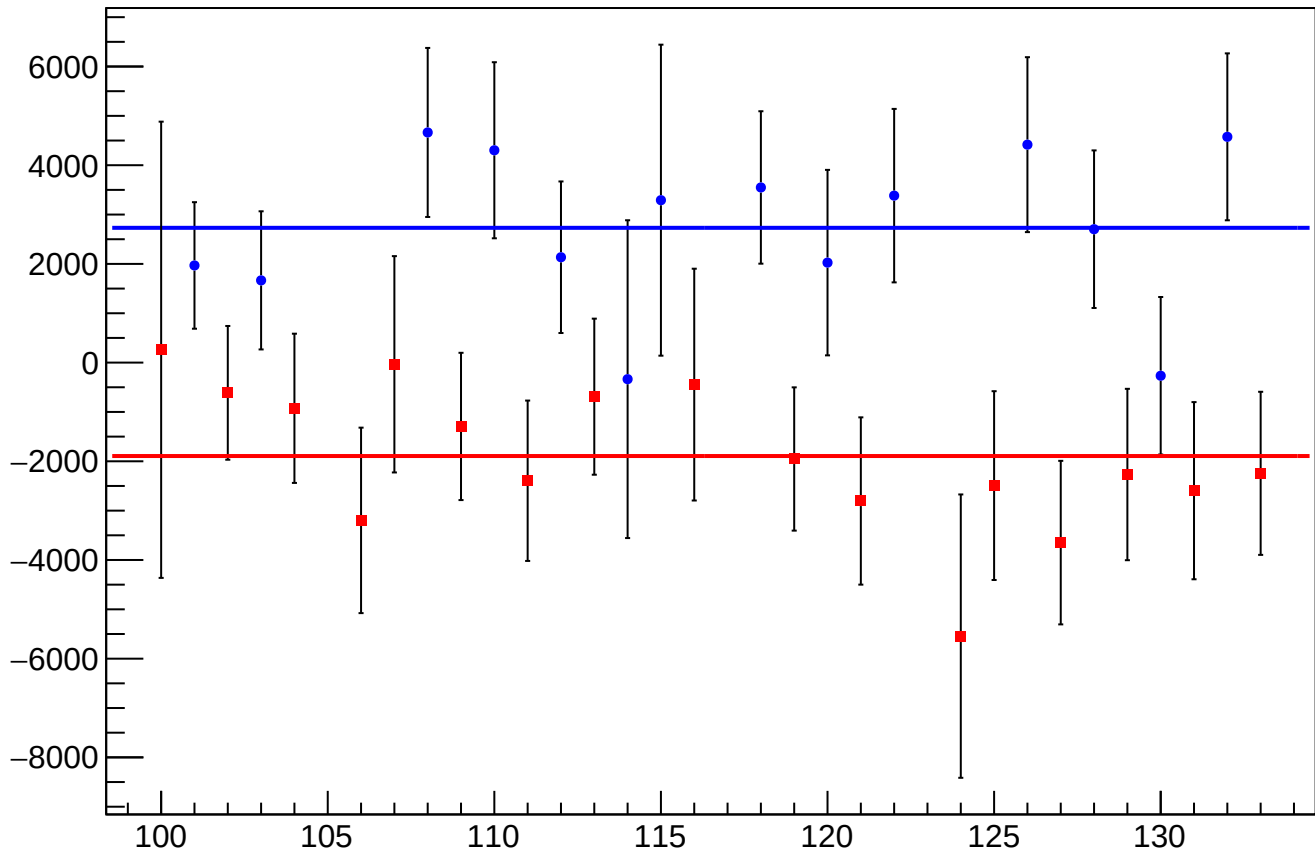
Right Out: 1749.763+/-0.484  $\chi^2/\text{NDF}$ : 384217.7/16

All: 1700.387+/-0.345  $\chi^2/\text{NDF}$ : 1040784.6/30

- 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\_usr\_mean vs Slug



Right In: 2731.300+/-452.974  $\chi^2/\text{NDF}$ : 10.3/13

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

Right Out: -1893.451+/-425.692  $\chi^2/\text{NDF}$ : 7.3/16

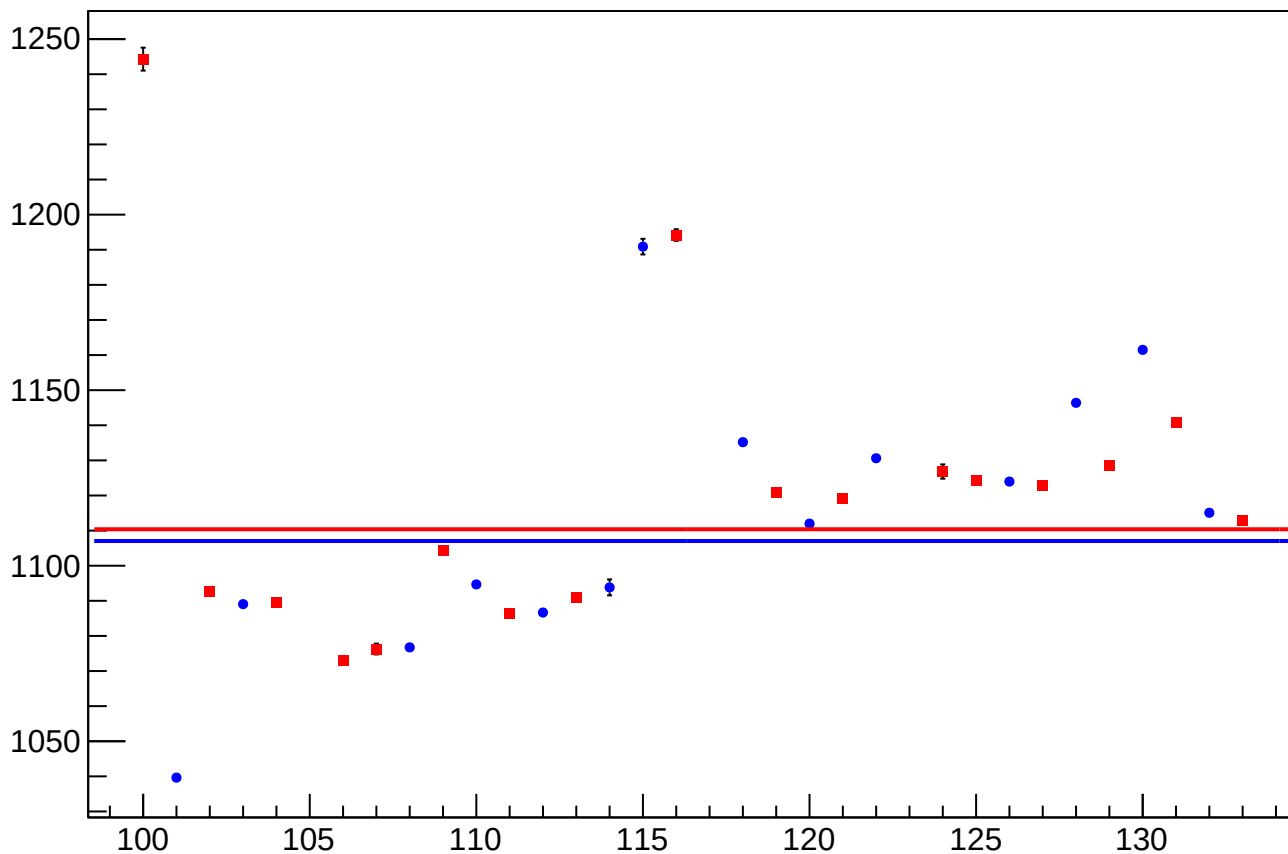
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 275.469+/-310.206  $\chi^2/\text{NDF}$ : 72.9/30

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

# dit\_asym\_usr\_rms vs Slug



Right In: 1107.038+/-0.320  $\chi^2/\text{NDF}$ : 13189.3/13

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

Right Out: 1110.386+/-0.301  $\chi^2/\text{NDF}$ : 8248.5/16

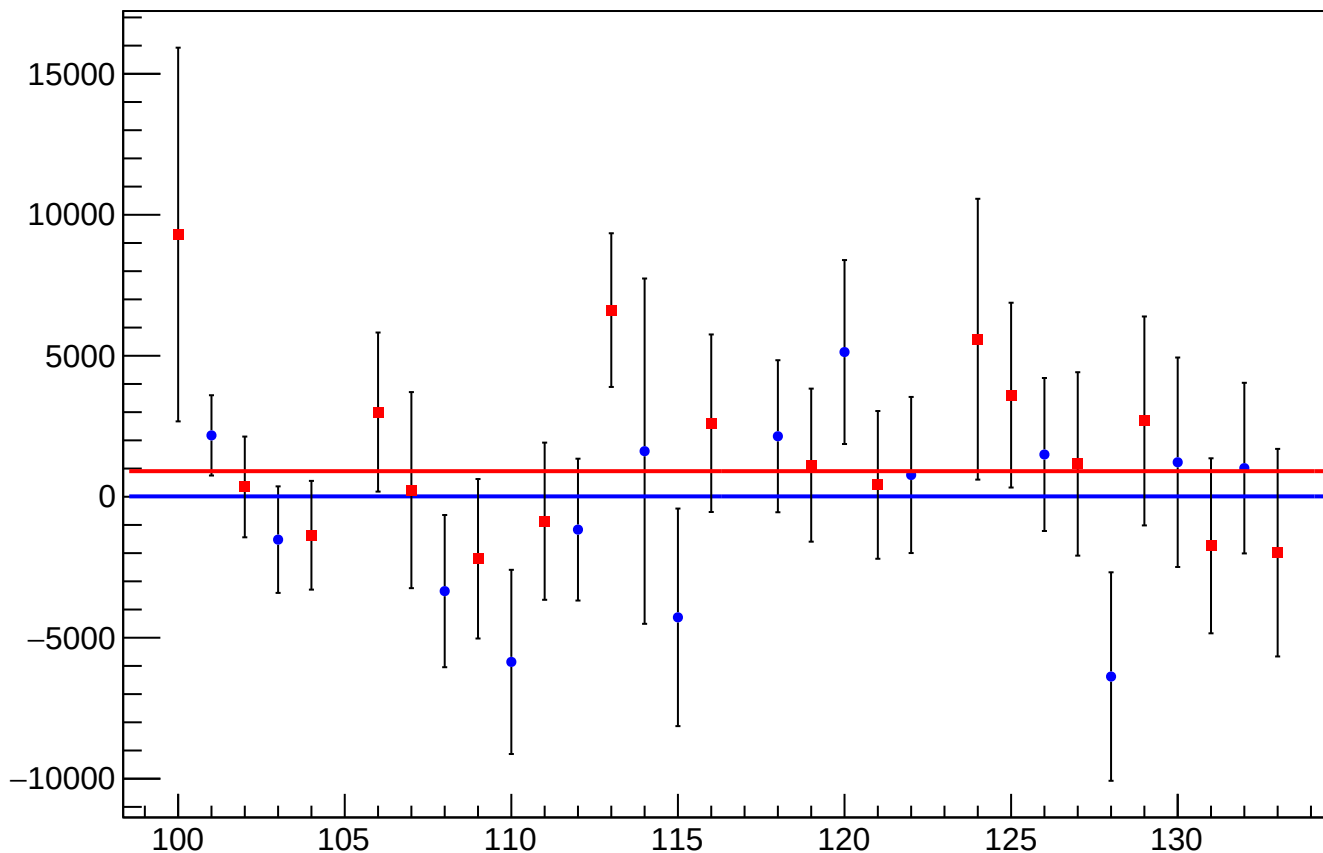
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1108.816+/-0.219  $\chi^2/\text{NDF}$ : 21495.8/30

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

# asym\_usr\_dit\_correction\_mean vs Slug



Right In: 12.829 $\pm$ 705.503  $\chi^2$ /NDF: 15.9/13

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

Right Out: 907.155 $\pm$ 696.325  $\chi^2$ /NDF: 13.2/16

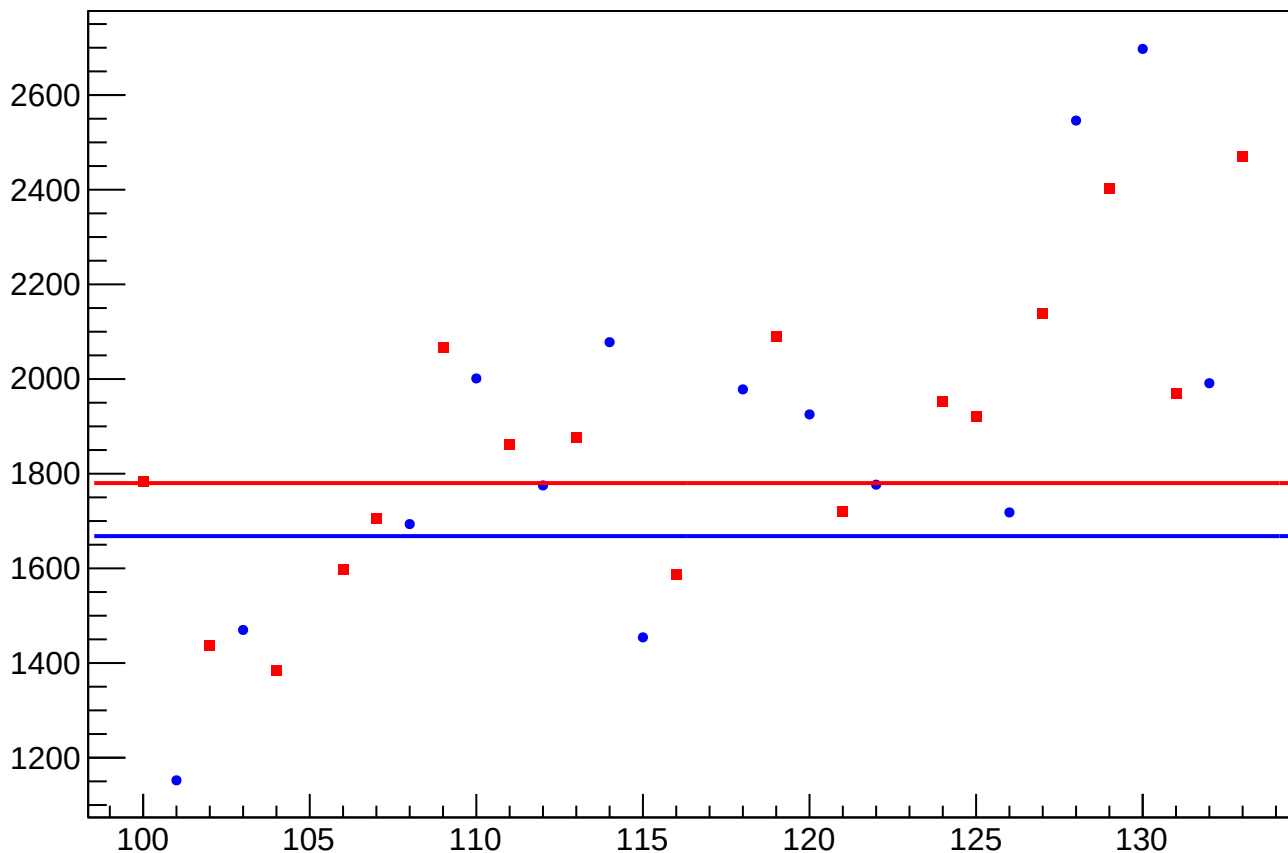
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 465.847 $\pm$ 495.589  $\chi^2$ /NDF: 29.9/30

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

# asym\_usr\_dit\_correction\_rms vs Slug



Right In: 1668.144+/-0.499  $\chi^2/\text{NDF}$ : 656165.9/13

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: 1780.156+/-0.492  $\chi^2/\text{NDF}$ : 391477.9/16

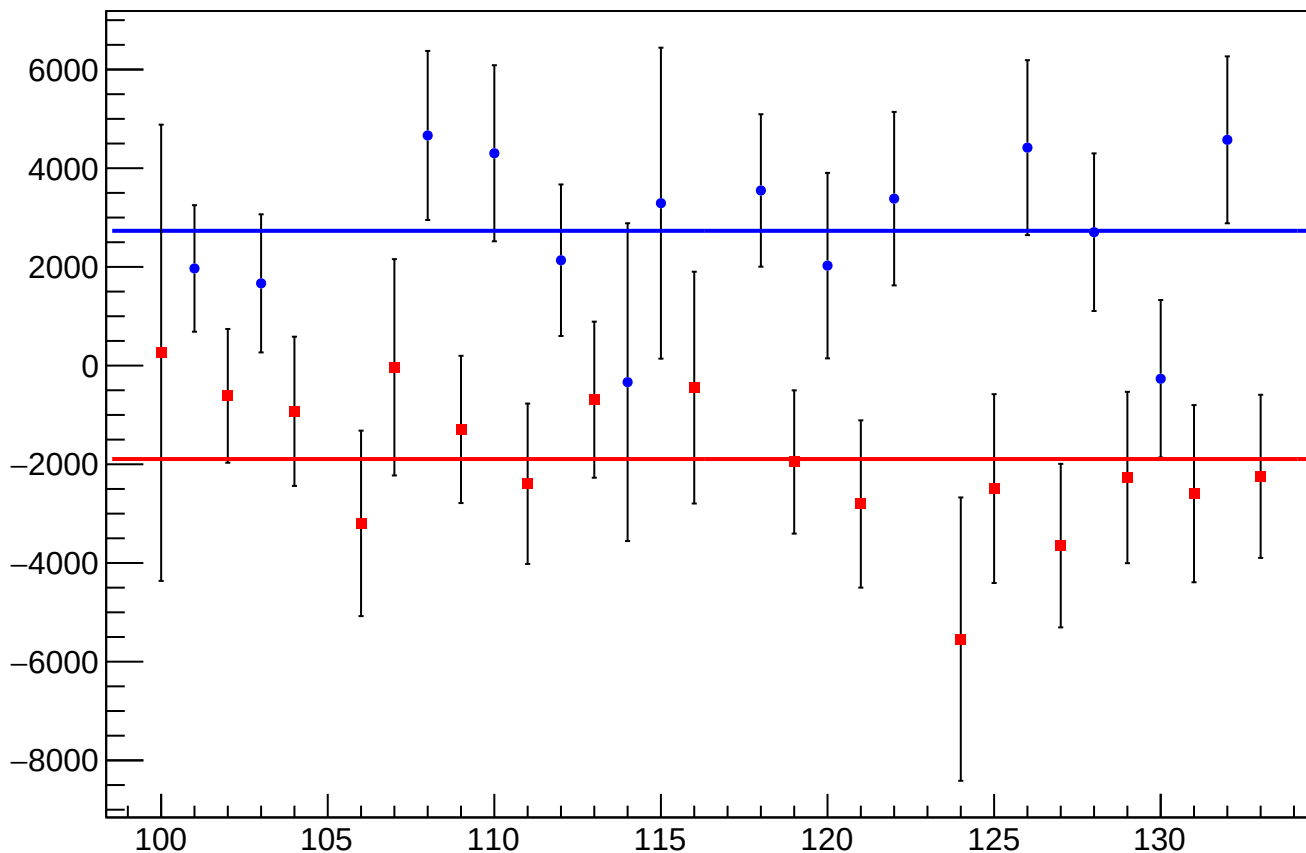
All: 1724.883+/-0.350  $\chi^2/\text{NDF}$ : 1073181.8/30

- 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\_mean vs Slug



Right In: 2731.303+/-452.974  $\chi^2/\text{NDF}$ : 10.3/13

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

Right Out: -1893.455+/-425.692  $\chi^2/\text{NDF}$ : 7.3/16

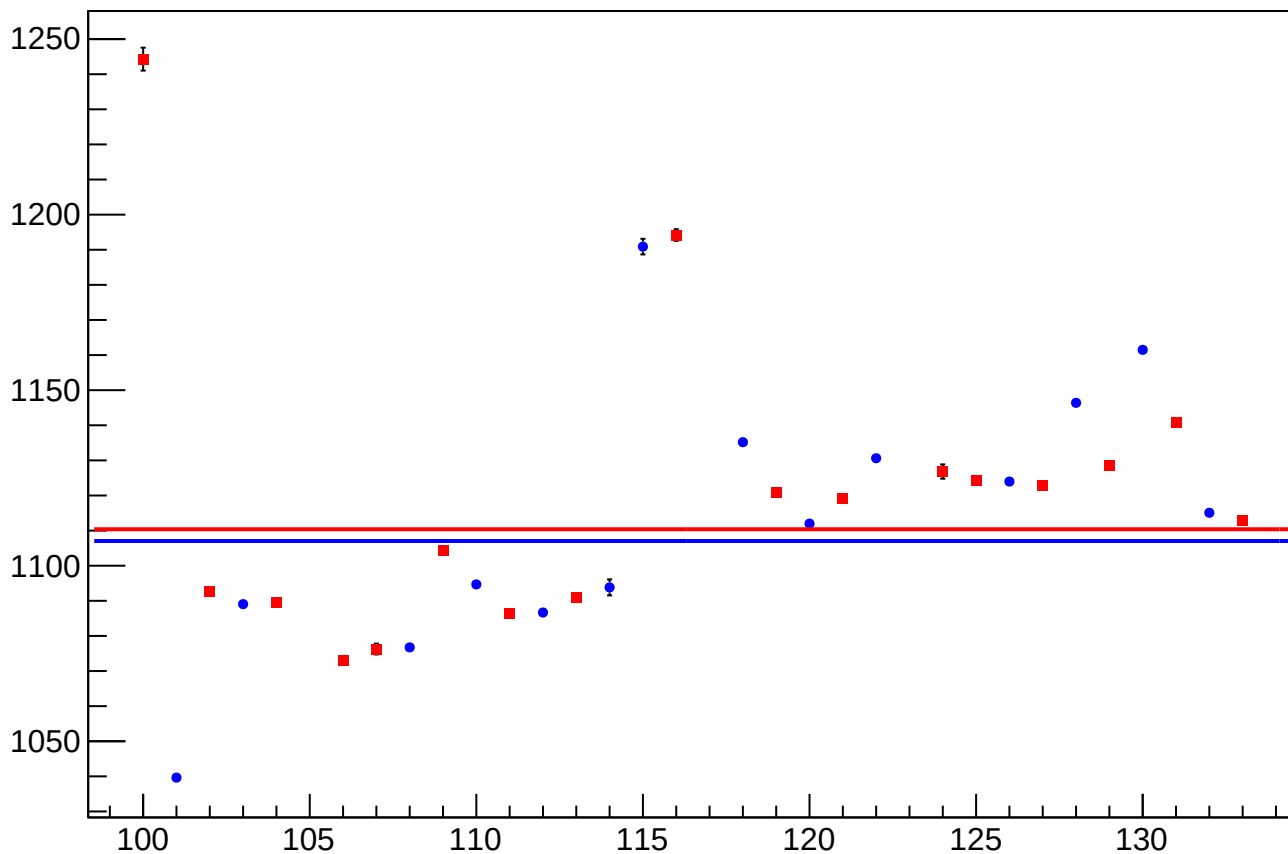
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 275.469+/-310.206  $\chi^2/\text{NDF}$ : 72.9/30

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

# eigen\_dit\_asym\_usr\_rms vs Slug



Right In: 1107.037+/-0.320  $\chi^2/\text{NDF}$ : 13189.1/13

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

Right Out: 1110.386+/-0.301  $\chi^2/\text{NDF}$ : 8248.5/16

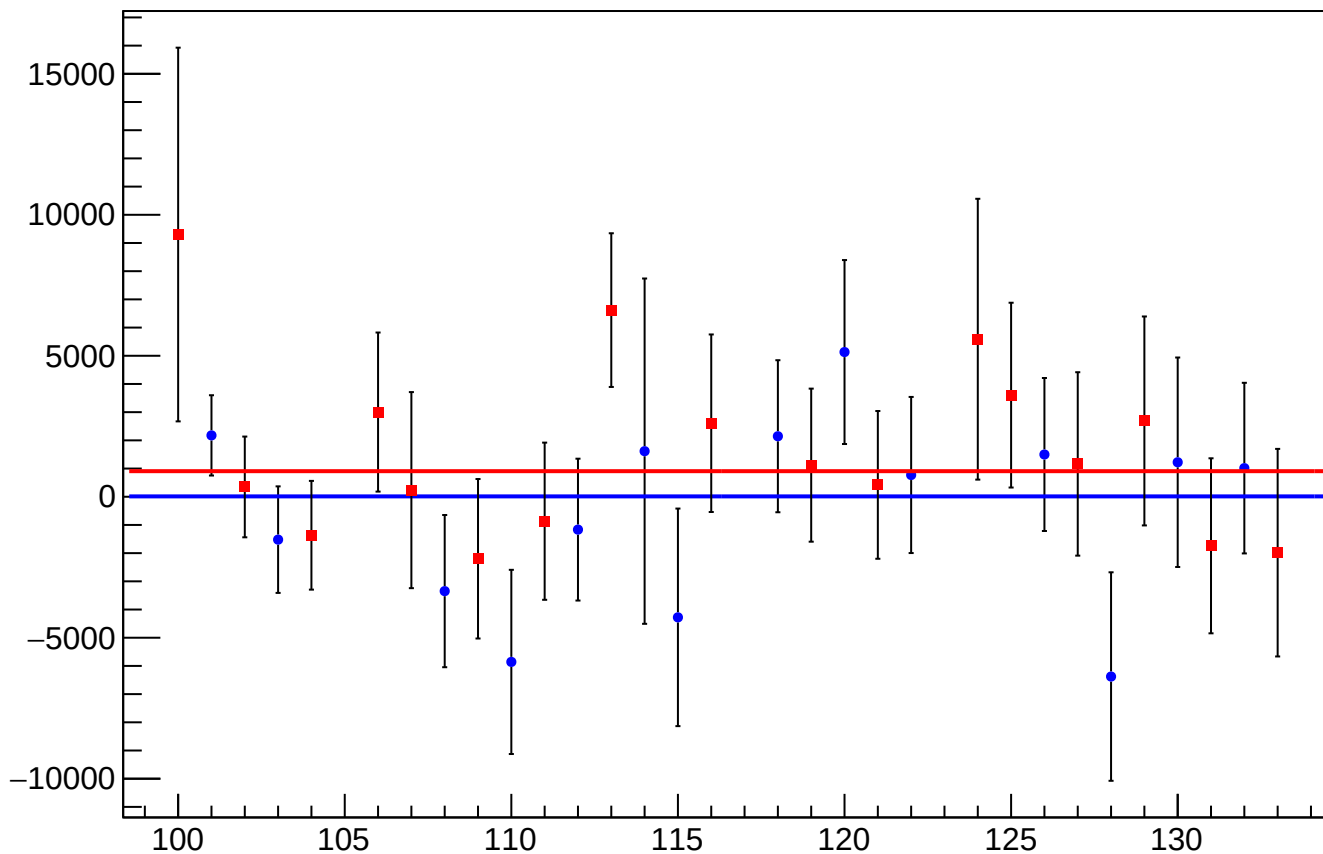
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1108.815+/-0.219  $\chi^2/\text{NDF}$ : 21495.7/30

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

# asym\_usr\_eigen\_dit\_correction\_mean vs Slug



Right In: 12.829+/-705.501  $\chi^2/\text{NDF}$ : 15.9/13

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

Right Out: 907.157+/-696.324  $\chi^2/\text{NDF}$ : 13.2/16

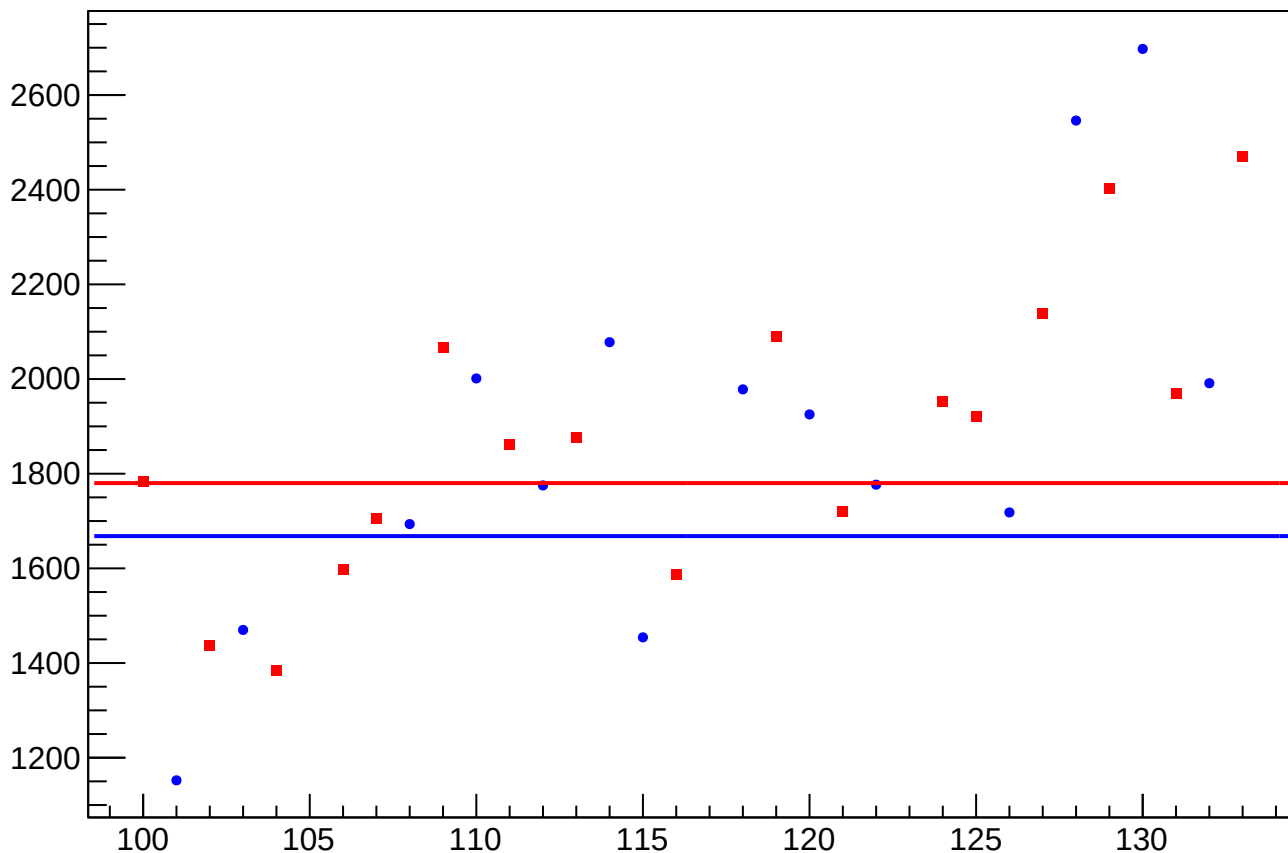
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 465.848+/-495.588  $\chi^2/\text{NDF}$ : 29.9/30

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

# asym\_usr\_eigen\_dit\_correction\_rms vs Slug



Right In: 1668.141+/-0.499  $\chi^2/\text{NDF}$ : 656154.8/13

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

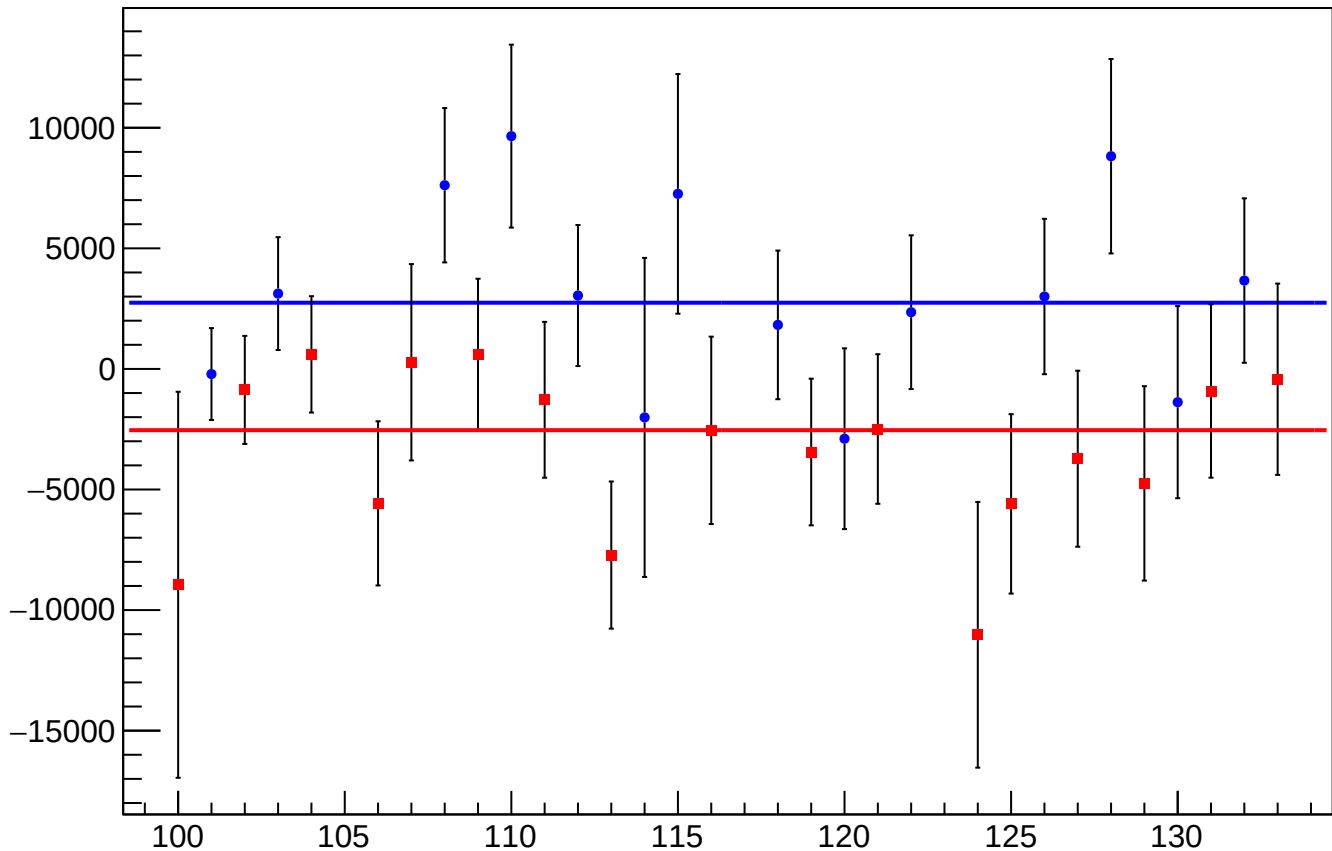
Right Out: 1780.155+/-0.492  $\chi^2/\text{NDF}$ : 391466.9/16

All: 1724.881+/-0.350  $\chi^2/\text{NDF}$ : 1073160.3/30

- 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\_mean vs Slug



Right In: 2745.626 $\pm$ 849.021  $\chi^2$ /NDF: 15.2/13

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

Right Out: -2539.792 $\pm$ 817.016  $\chi^2$ /NDF: 12.2/16

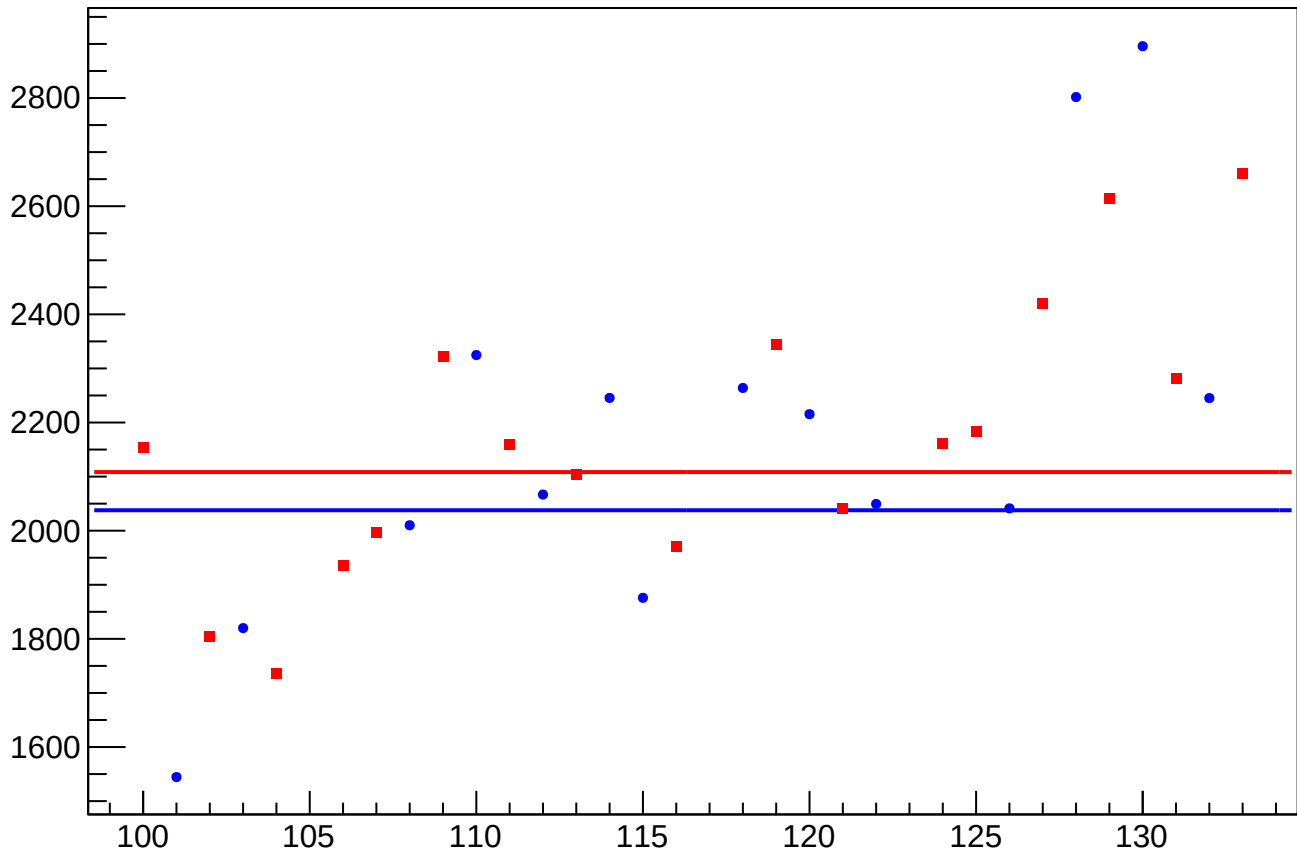
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1.418 $\pm$ 588.707  $\chi^2$ /NDF: 47.5/30

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

# asym\_usr\_rms vs Slug



Right In: 2037.788 $\pm$ 0.600  $\chi^2$ /NDF: 354613.0/13

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

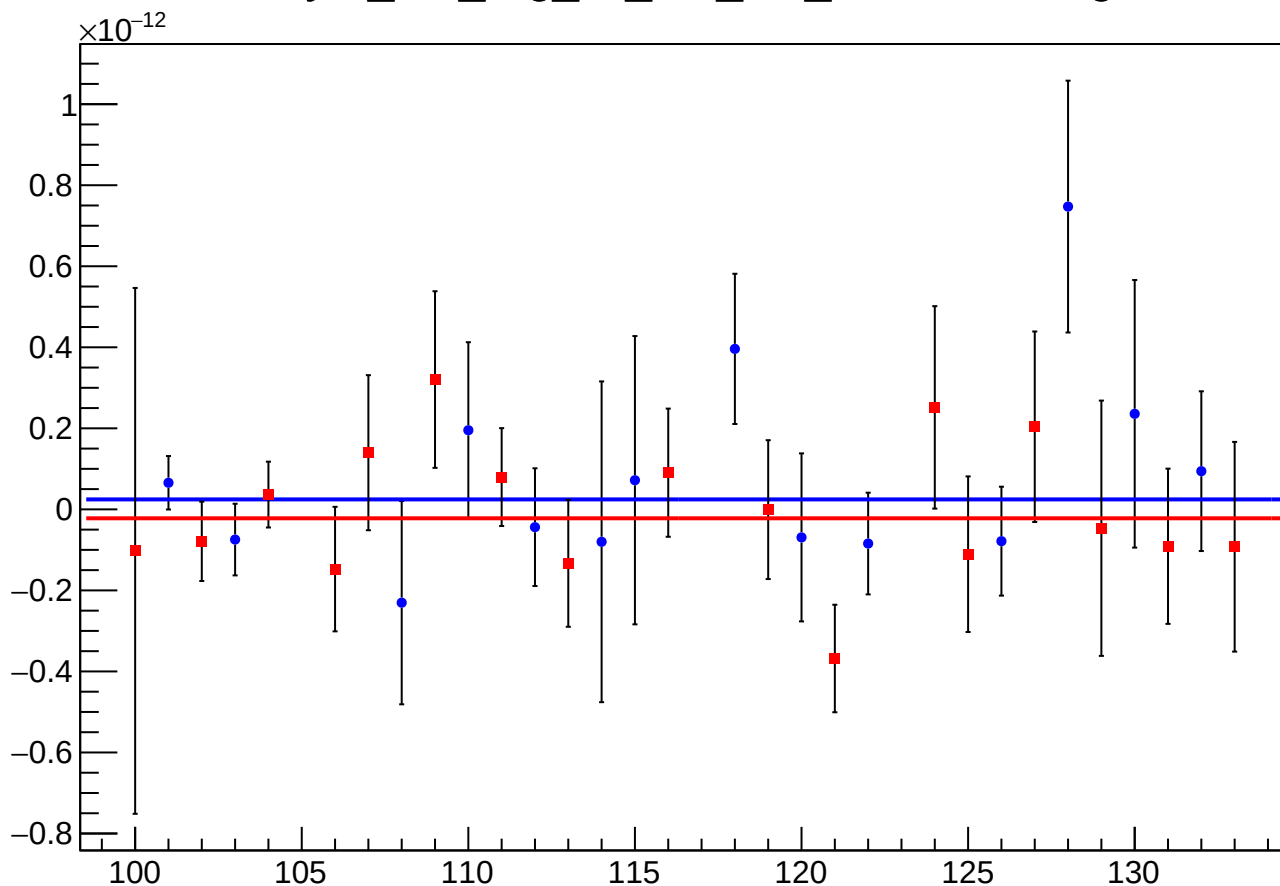
Right Out: 2108.380 $\pm$ 0.578  $\chi^2$ /NDF: 206945.4/16

All: 2074.440 $\pm$ 0.416  $\chi^2$ /NDF: 568736.8/30

- 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\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.1/13

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

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.8/16

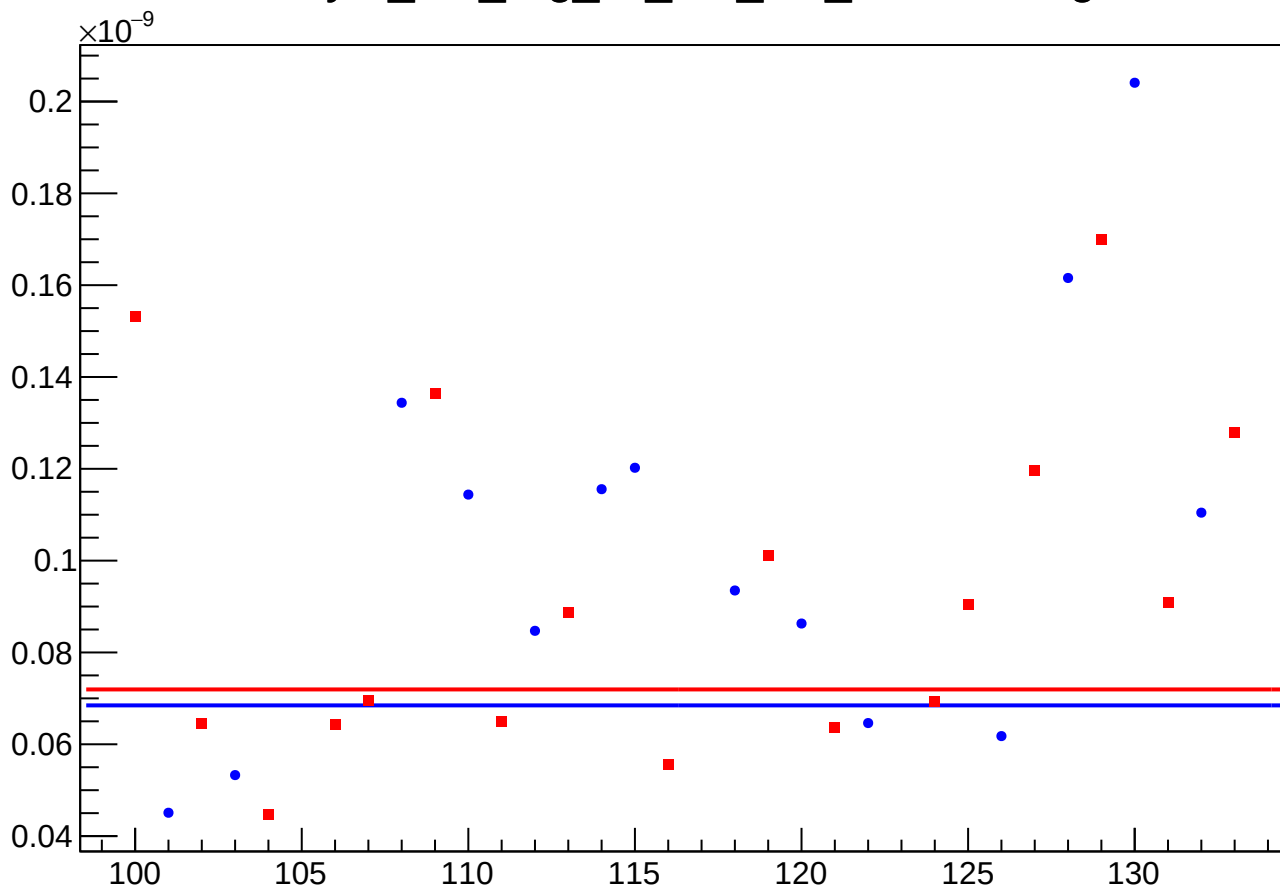
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 31.7/30

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

# asym\_usr\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1299138.1/13

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 973220.7/16

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

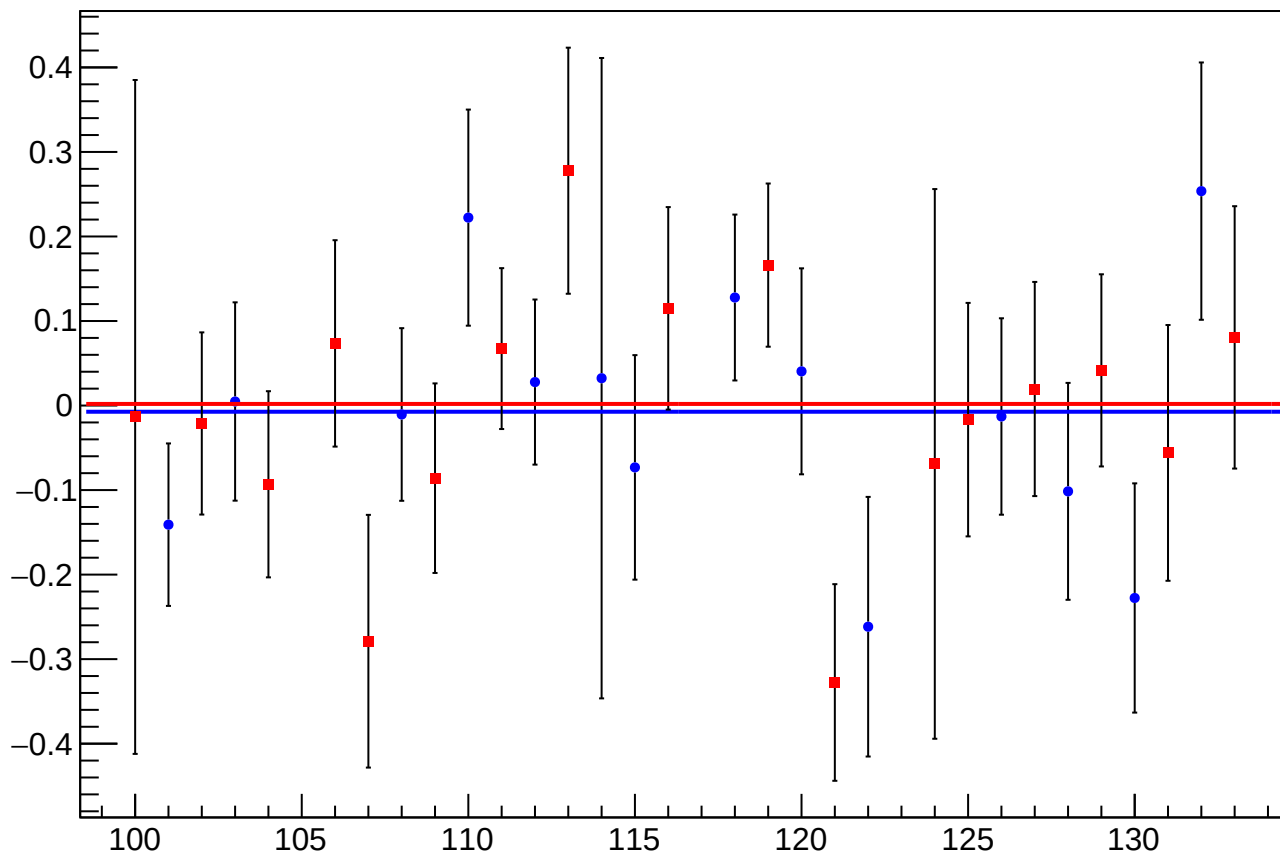
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2280659.2/30

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



# asym\_usr\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.007 \pm 0.032$   $\chi^2/\text{NDF}$ : 16.5/13

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

Right Out:  $0.002 \pm 0.031$   $\chi^2/\text{NDF}$ : 21.8/16

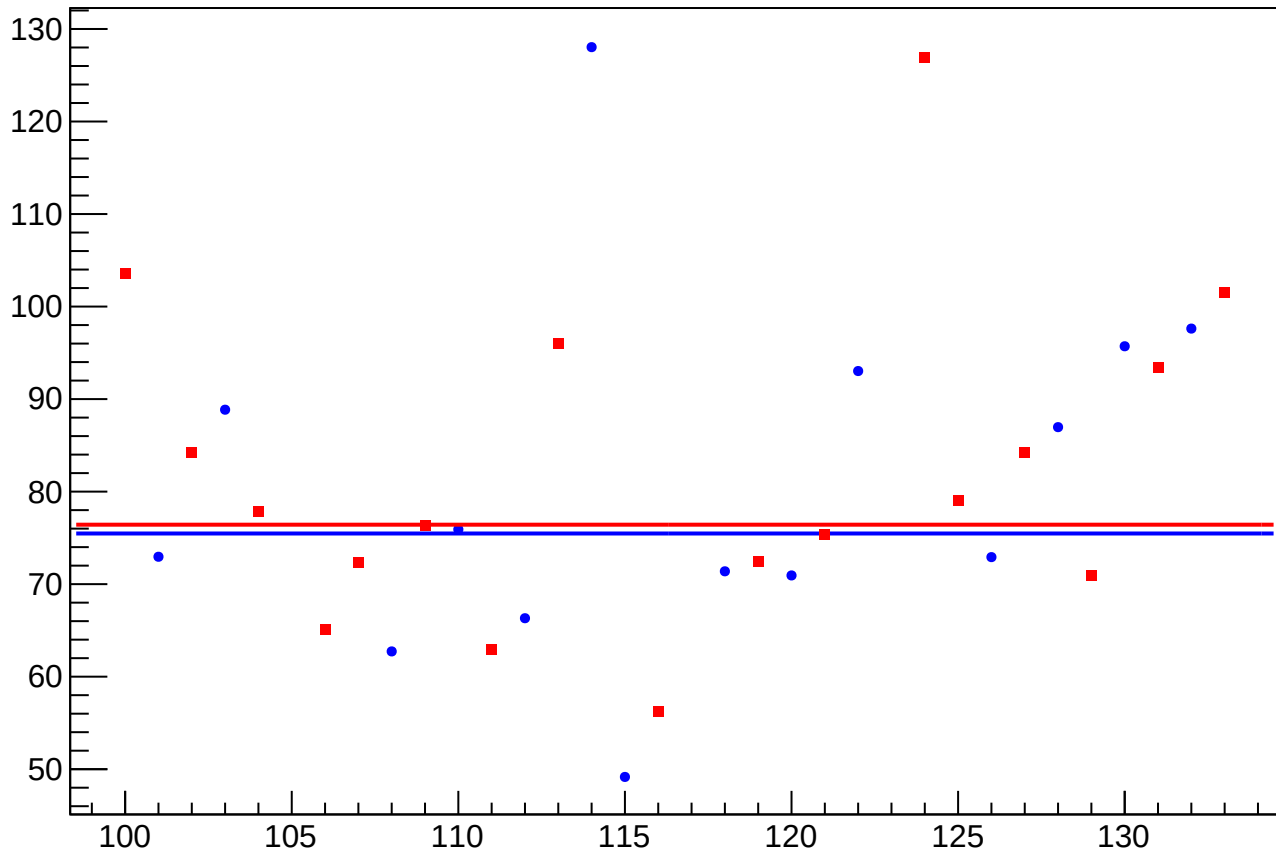
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.002 \pm 0.022$   $\chi^2/\text{NDF}$ : 38.3/30

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

# asym\_usr\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 75.474+/-0.023  $\chi^2/\text{NDF}$ : 329455.3/13

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

Right Out: 76.426+/-0.022  $\chi^2/\text{NDF}$ : 314604.0/16

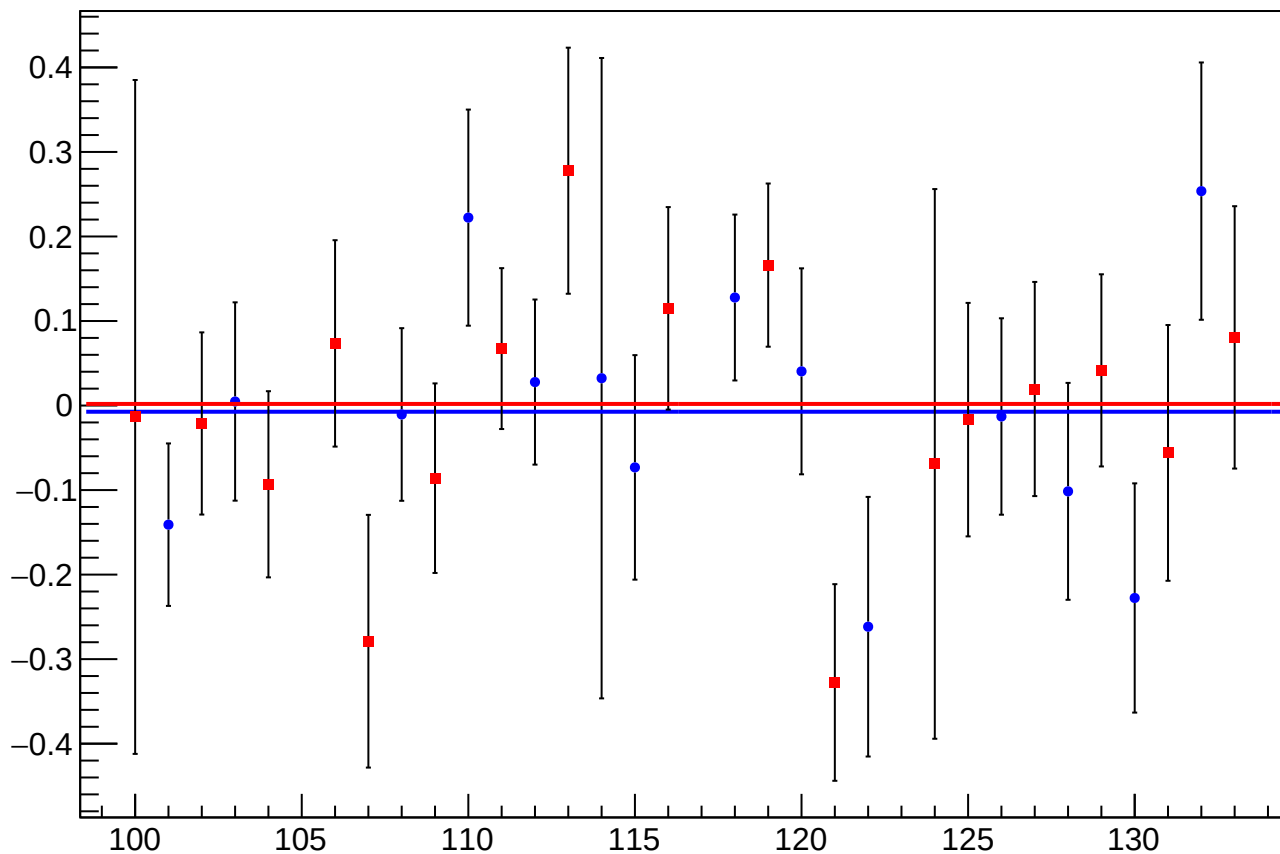
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 75.976+/-0.016  $\chi^2/\text{NDF}$ : 644969.0/30

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

# asym\_usr\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.007 \pm 0.032$   $\chi^2/\text{NDF}$ : 16.5/13

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

Right Out:  $0.002 \pm 0.031$   $\chi^2/\text{NDF}$ : 21.8/16

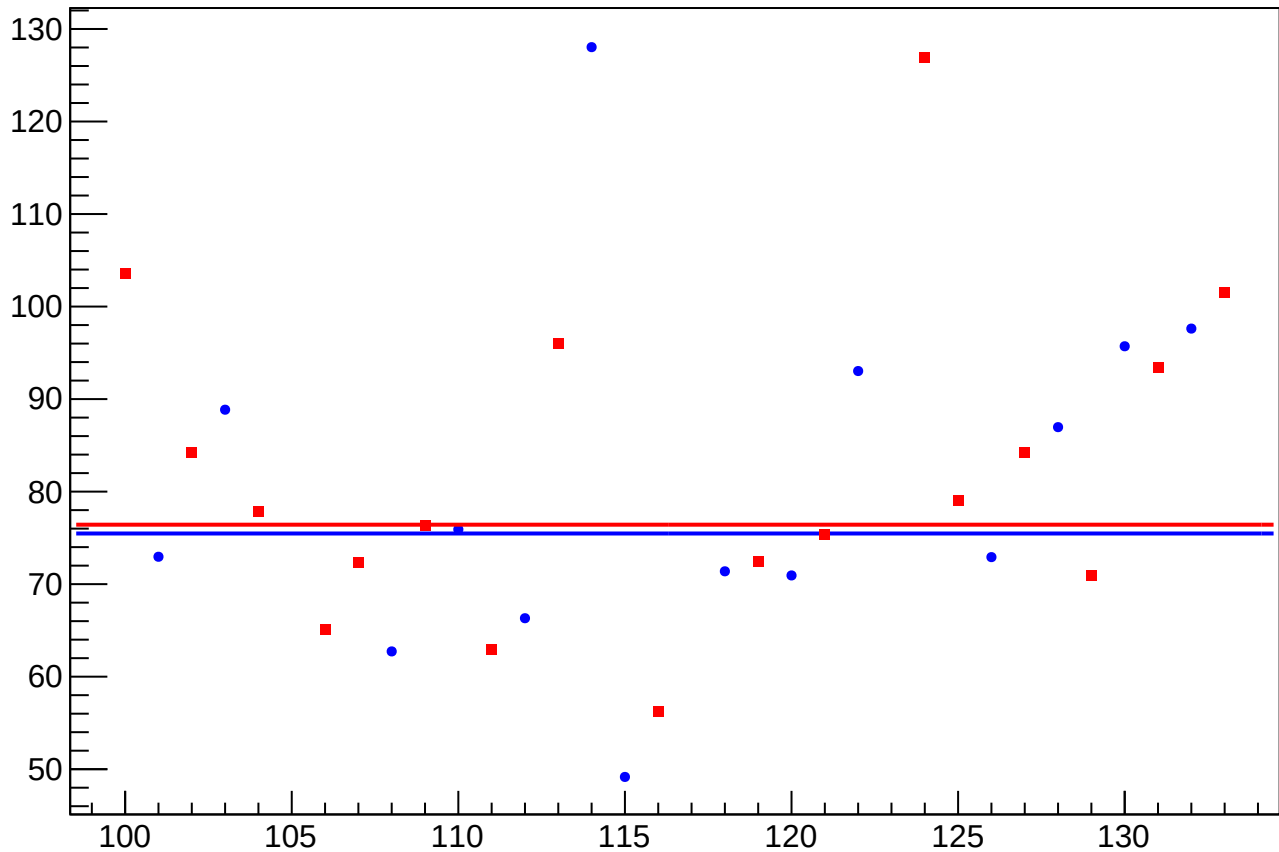
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.002 \pm 0.022$   $\chi^2/\text{NDF}$ : 38.3/30

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

# asym\_usr\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 75.474+/-0.023  $\chi^2/\text{NDF}$ : 329455.3/13

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

Right Out: 76.426+/-0.022  $\chi^2/\text{NDF}$ : 314604.0/16

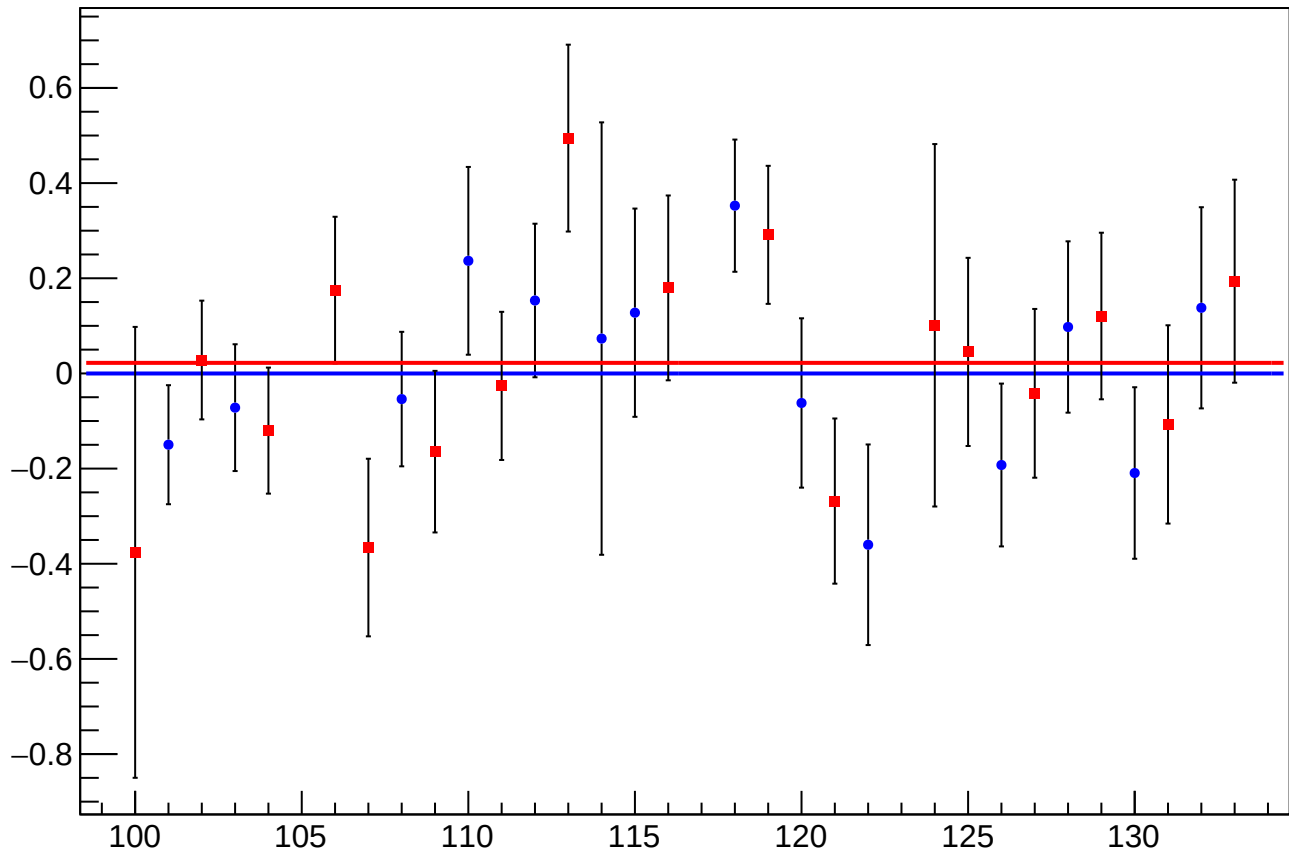
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 75.976+/-0.016  $\chi^2/\text{NDF}$ : 644969.0/30

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

# asym\_usr\_dit\_vs\_overload\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.045  $\chi^2$ /NDF: 17.4/13

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

Right Out: 0.022 $\pm$ 0.043  $\chi^2$ /NDF: 22.7/16

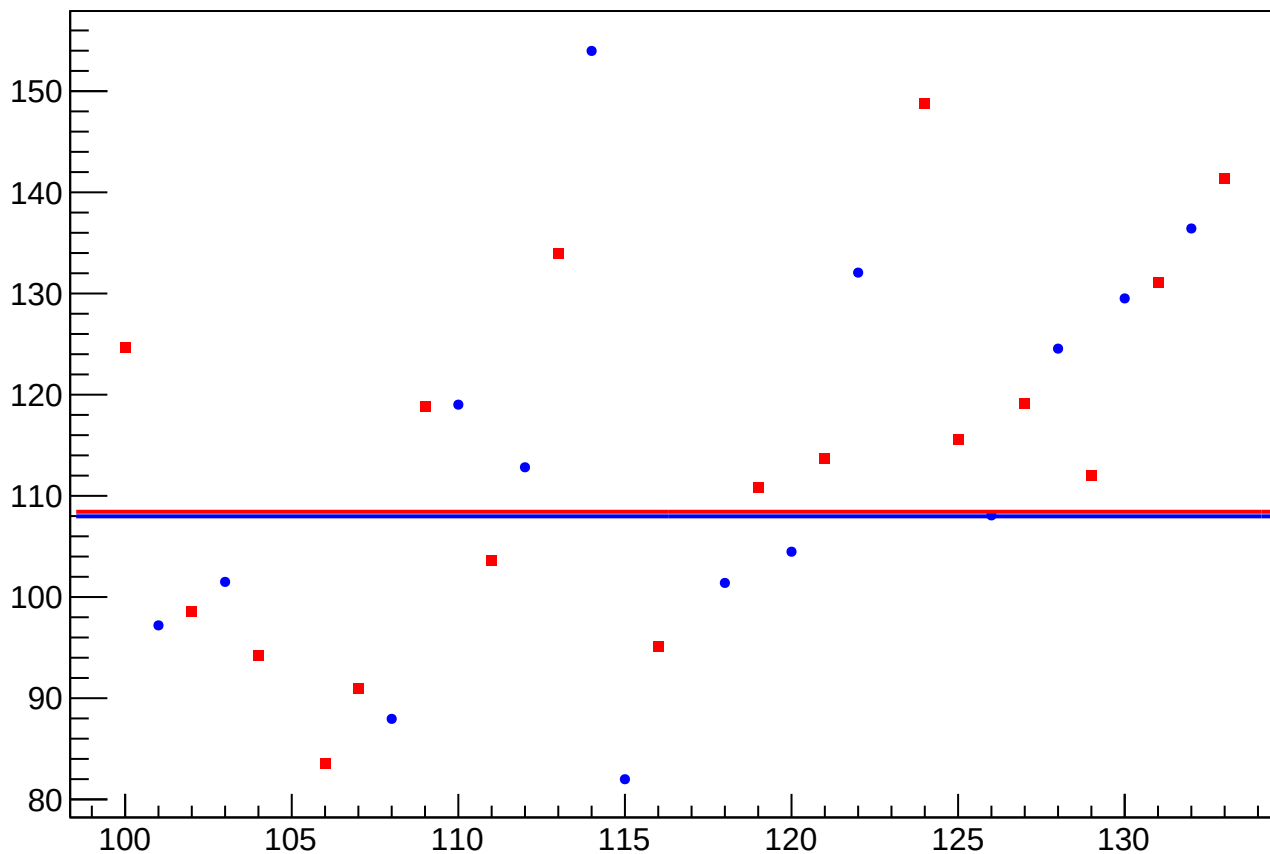
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.012 $\pm$ 0.031  $\chi^2$ /NDF: 40.2/30

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

# asym\_usr\_dit\_vs\_overload\_cor\_diff\_rms vs Slug



Right In: 107.974+/-0.032  $\chi^2/\text{NDF}$ : 229556.6/13

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

Right Out: 108.427+/-0.030  $\chi^2/\text{NDF}$ : 267595.8/16

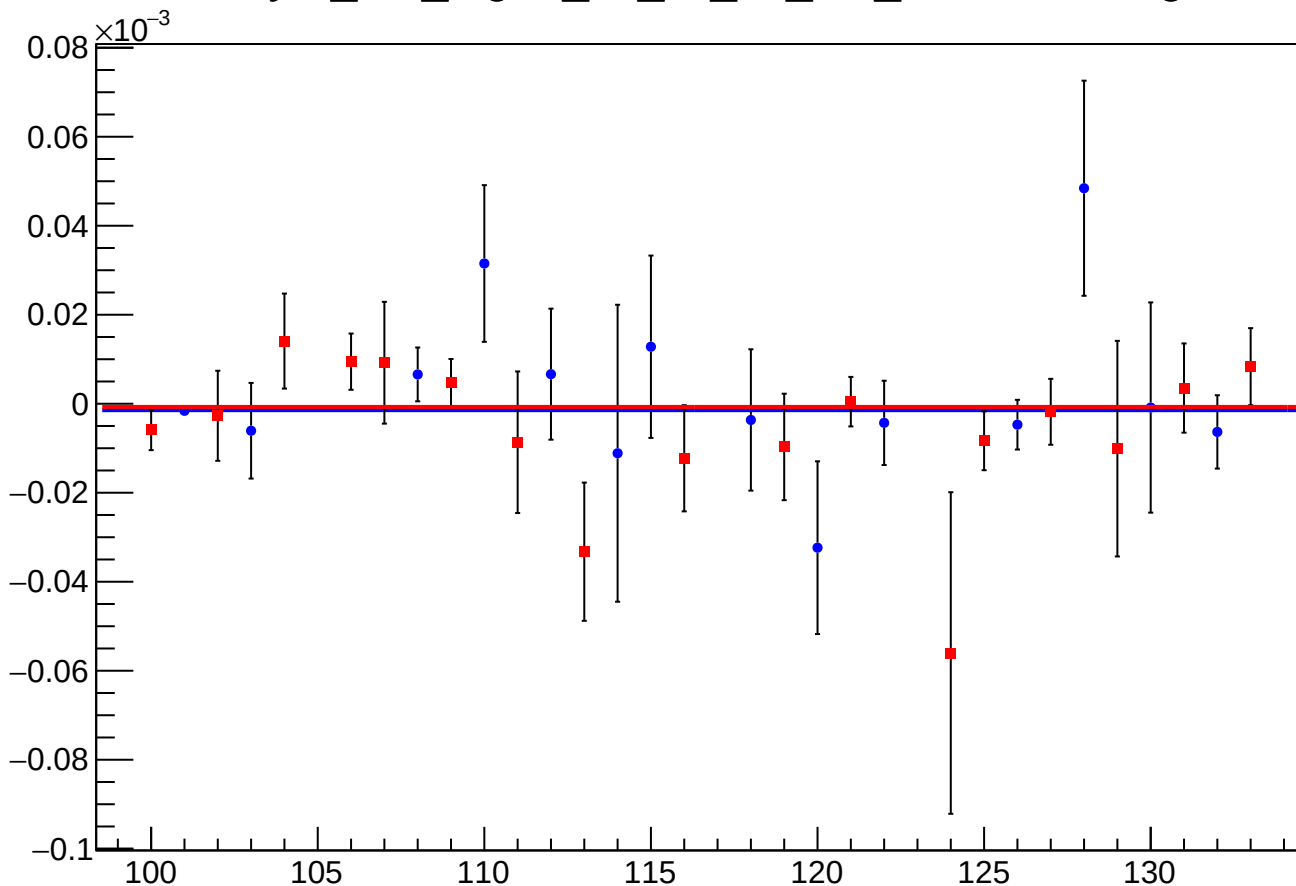
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 108.214+/-0.022  $\chi^2/\text{NDF}$ : 497257.9/30

- 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  $\chi^2$ /NDF: 13.9/13

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

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 18.7/16

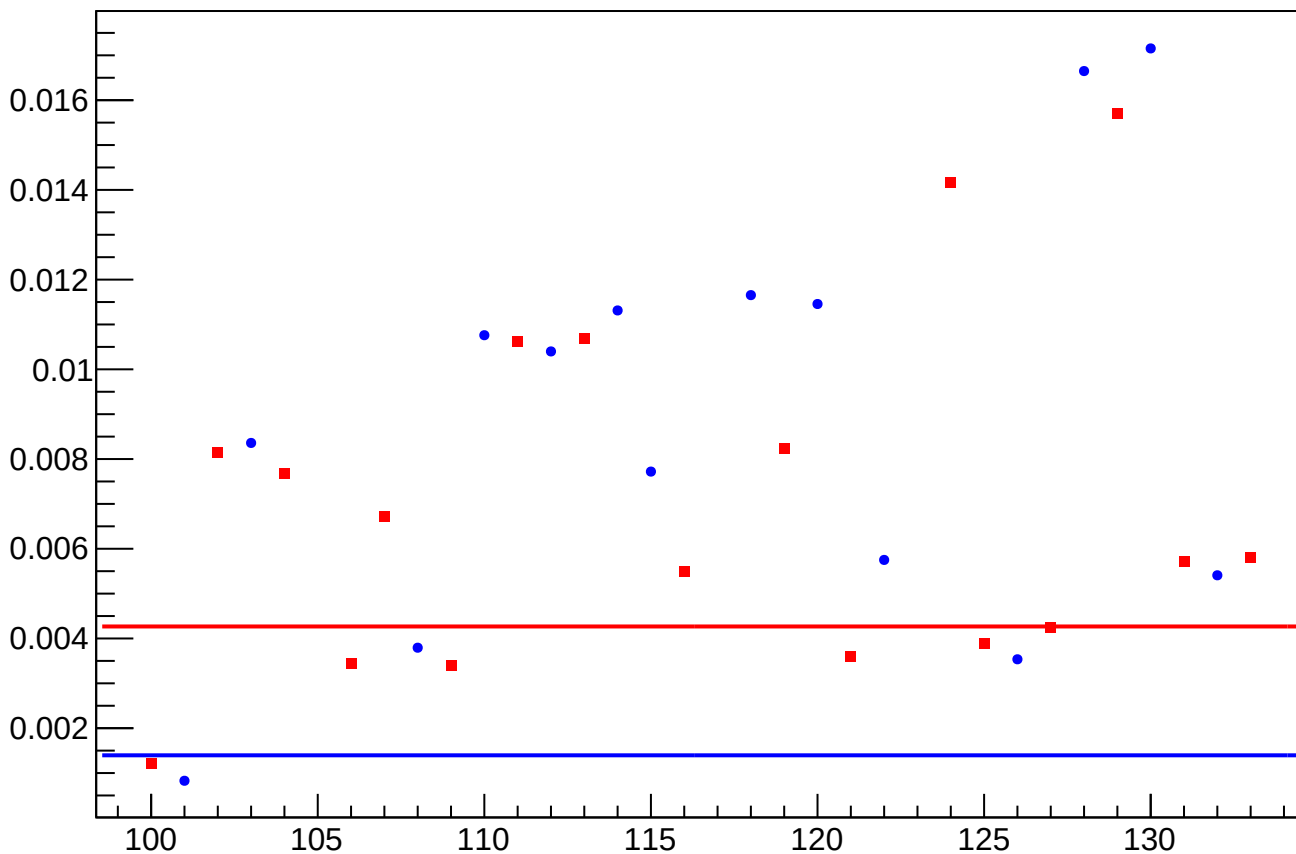
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.000+/-0.000  $\chi^2$ /NDF: 32.8/30

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

# asym\_usr\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 7676345.6/13

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

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 3192946.7/16

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

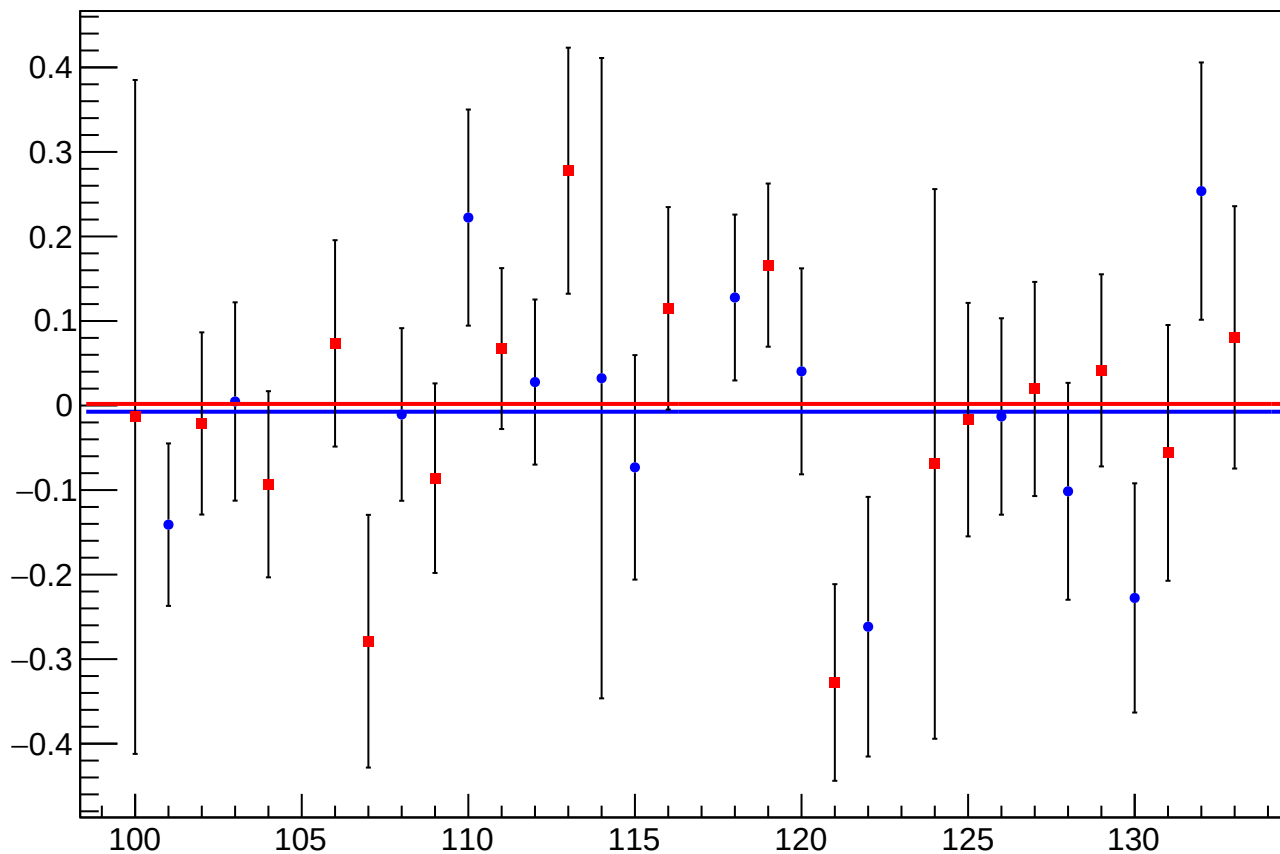
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 14237896.7/30

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



# asym\_usr\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.007 \pm 0.032$   $\chi^2/\text{NDF}$ : 16.5/13

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

Right Out:  $0.002 \pm 0.031$   $\chi^2/\text{NDF}$ : 21.8/16

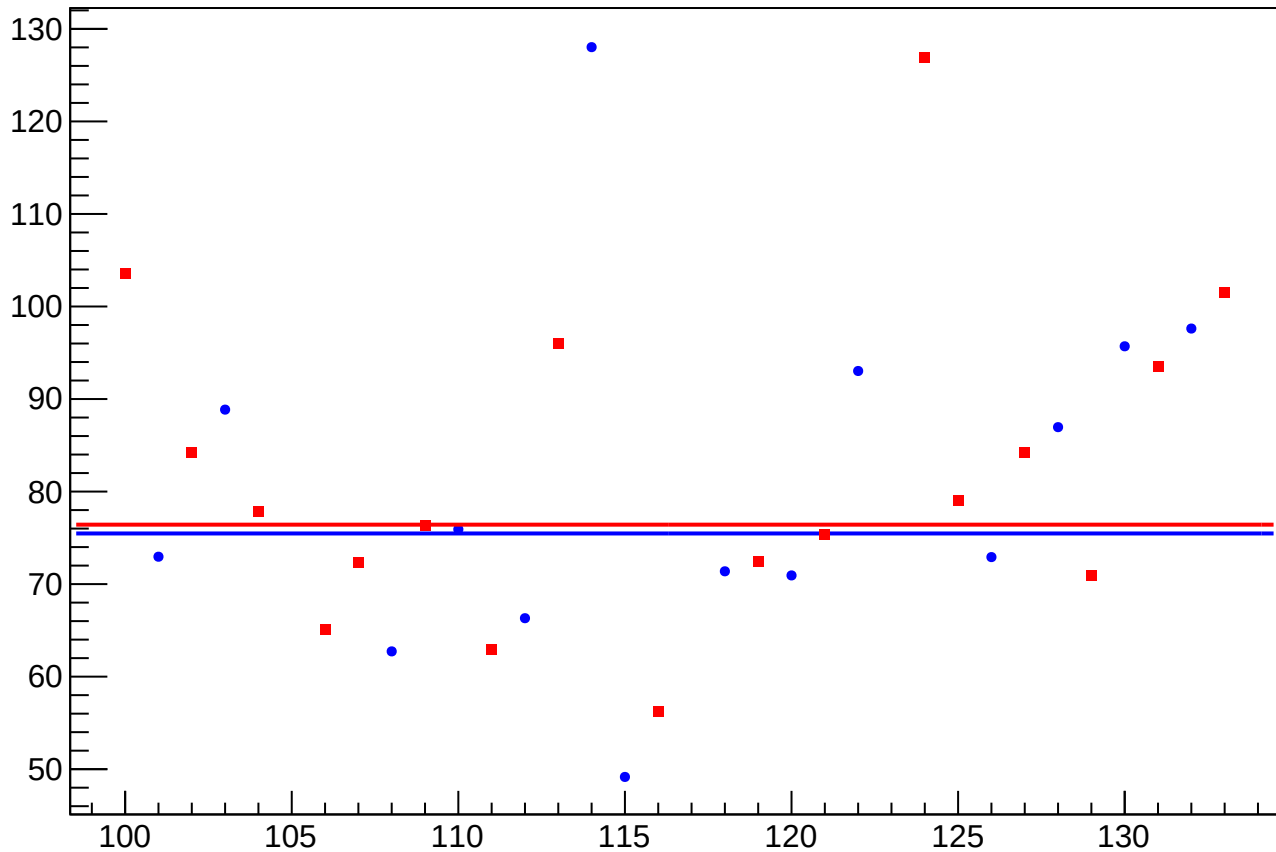
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.002 \pm 0.022$   $\chi^2/\text{NDF}$ : 38.3/30

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

# asym\_usr\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 75.472 $\pm$ 0.023  $\chi^2$ /NDF: 329431.4/13

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

Right Out: 76.424 $\pm$ 0.022  $\chi^2$ /NDF: 314595.6/16

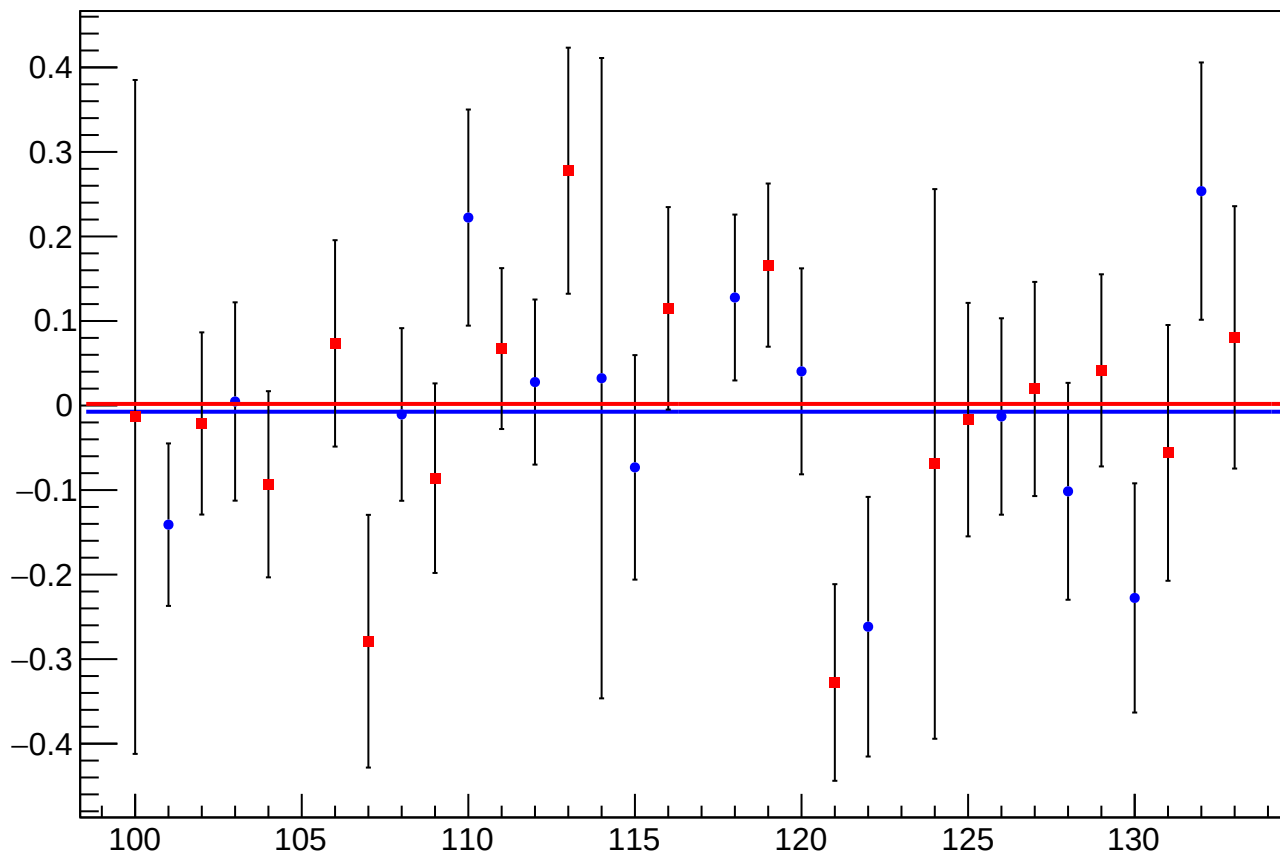
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 75.974 $\pm$ 0.016  $\chi^2$ /NDF: 644936.8/30

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

asym\_usr\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.007 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 16.5/13

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

Right Out: 0.002 $\pm$ 0.031  $\chi^2/\text{NDF}$ : 21.8/16

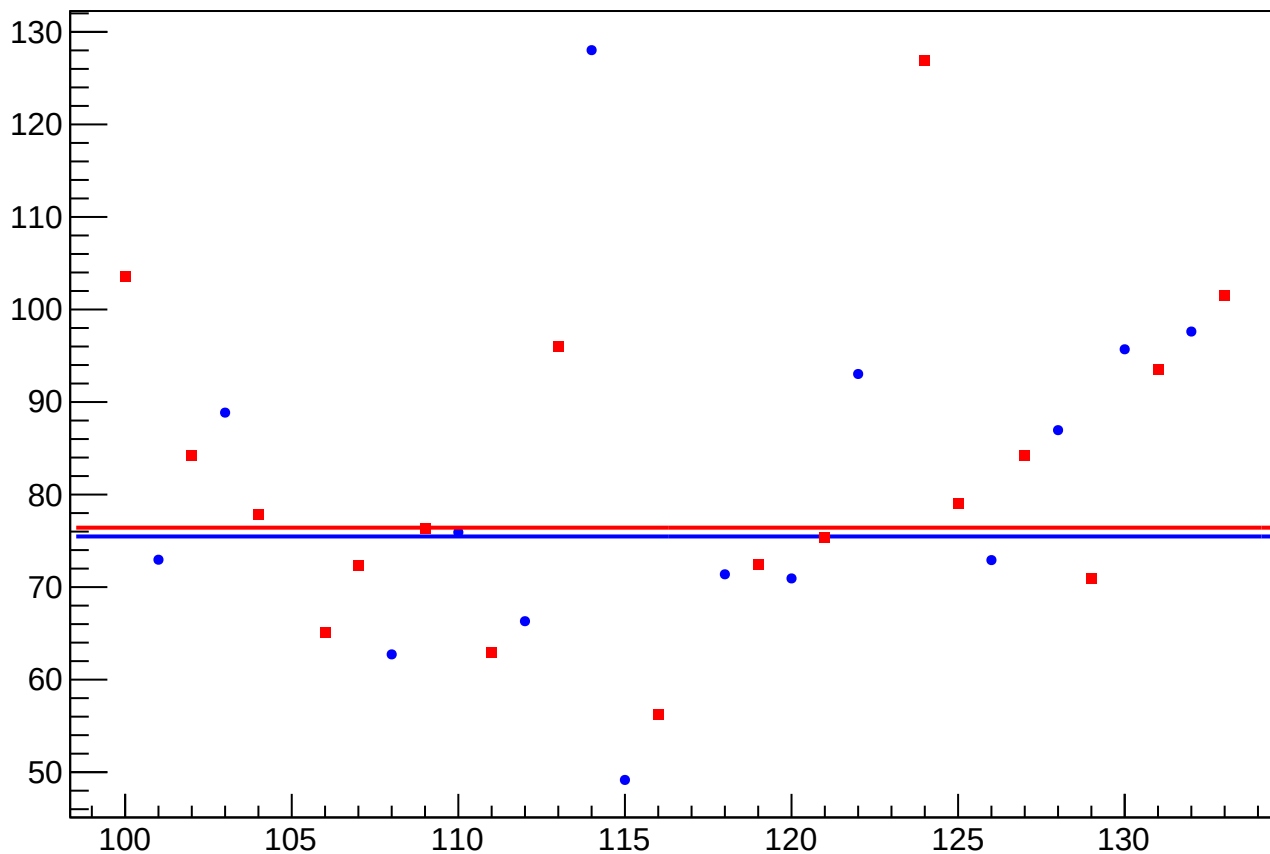
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.002 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 38.3/30

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

# asym\_usr\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 75.472+/-0.023  $\chi^2/\text{NDF}$ : 329431.4/13

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

Right Out: 76.424+/-0.022  $\chi^2/\text{NDF}$ : 314595.6/16

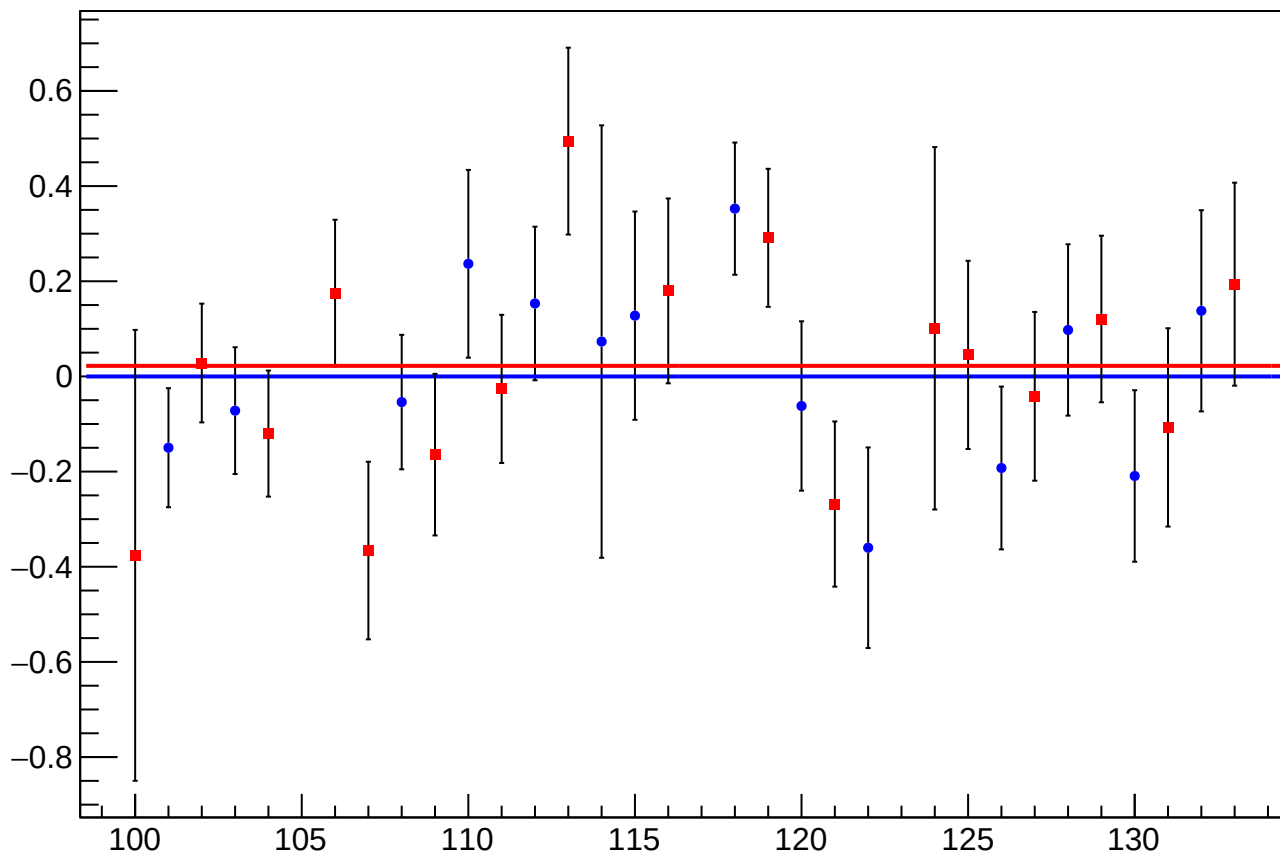
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 75.974+/-0.016  $\chi^2/\text{NDF}$ : 644936.8/30

- 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: -0.000 $\pm$ 0.045  $\chi^2$ /NDF: 17.4/13

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

Right Out: 0.022 $\pm$ 0.043  $\chi^2$ /NDF: 22.7/16

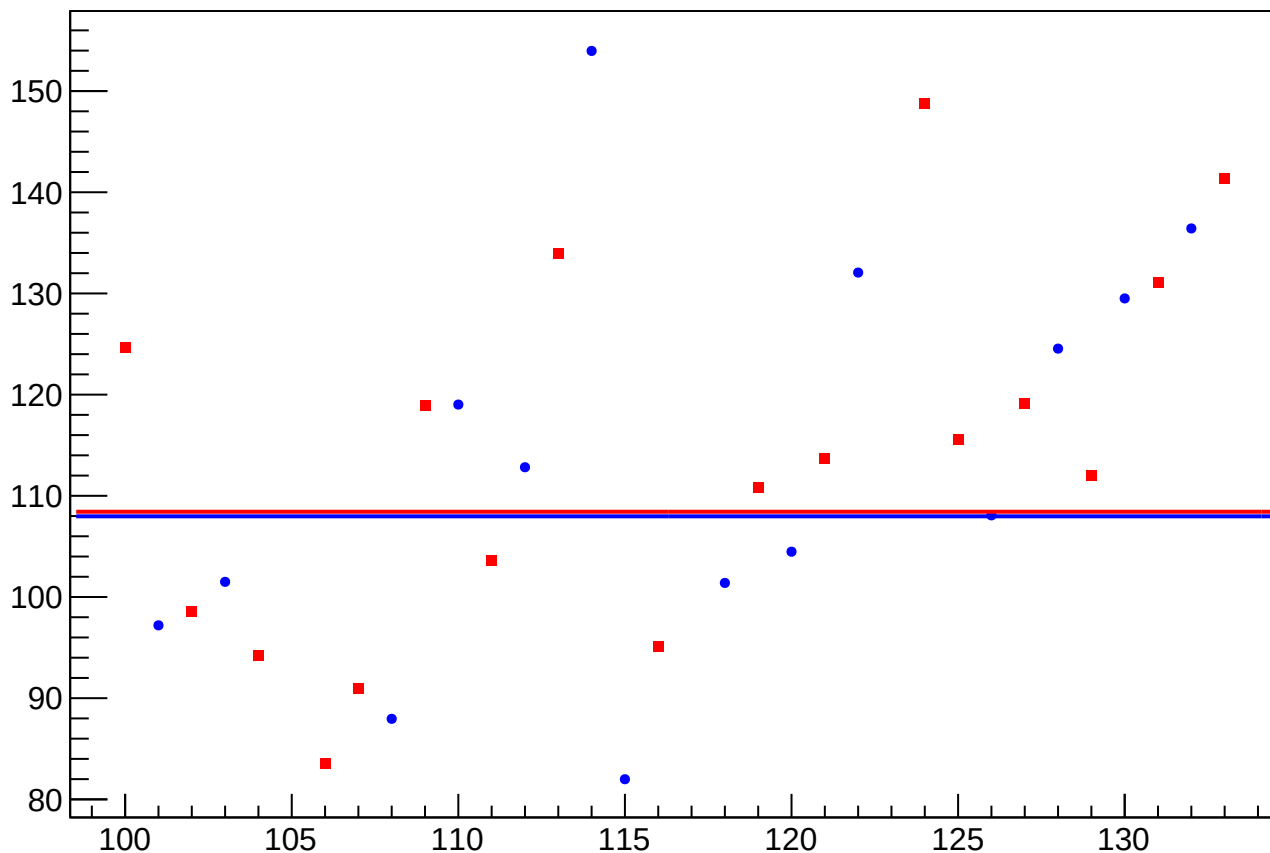
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.012 $\pm$ 0.031  $\chi^2$ /NDF: 40.2/30

- 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: 107.973+/-0.032  $\chi^2/\text{NDF}$ : 229528.1/13

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

Right Out: 108.426+/-0.030  $\chi^2/\text{NDF}$ : 267565.3/16

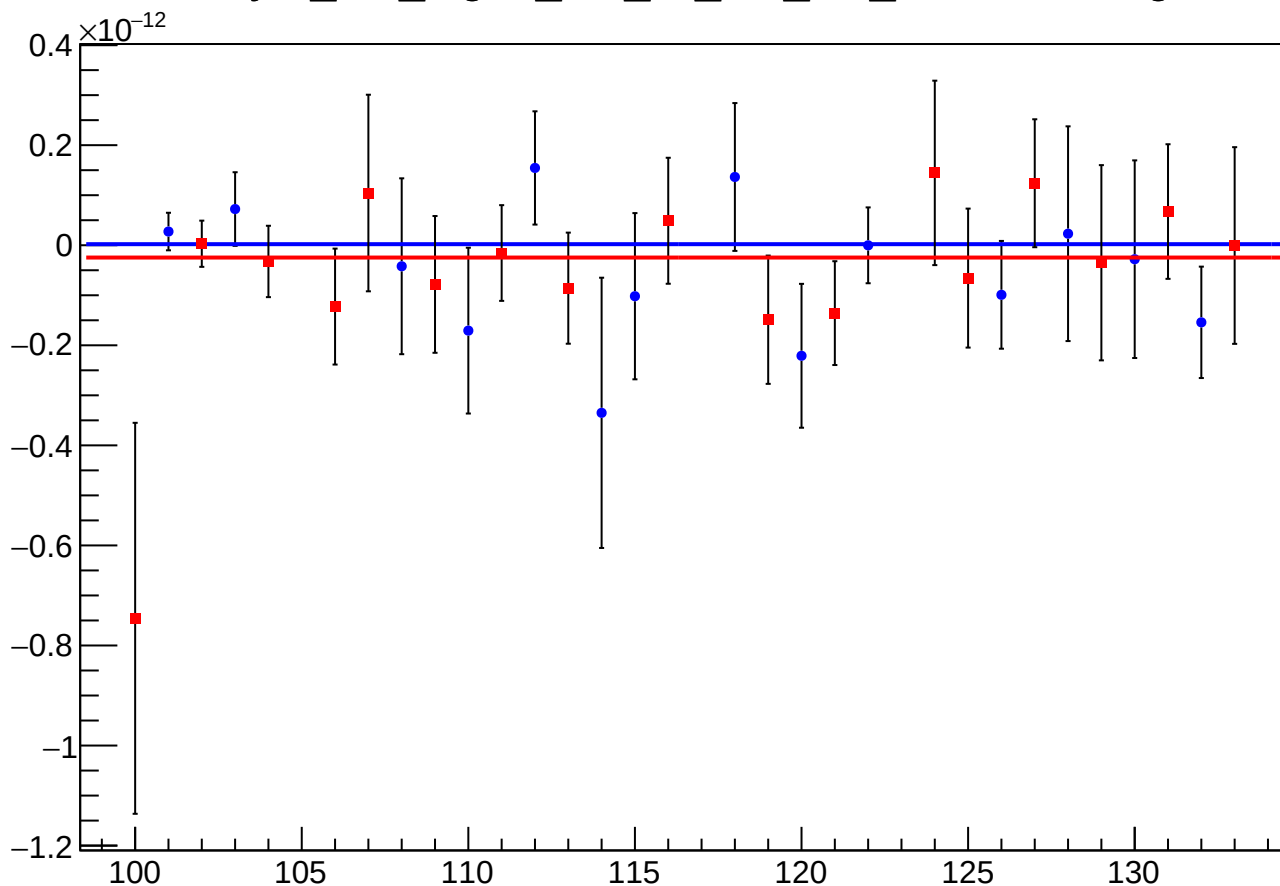
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 108.213+/-0.022  $\chi^2/\text{NDF}$ : 497199.0/30

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

# asym\_usr\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.4/13

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

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.6/16

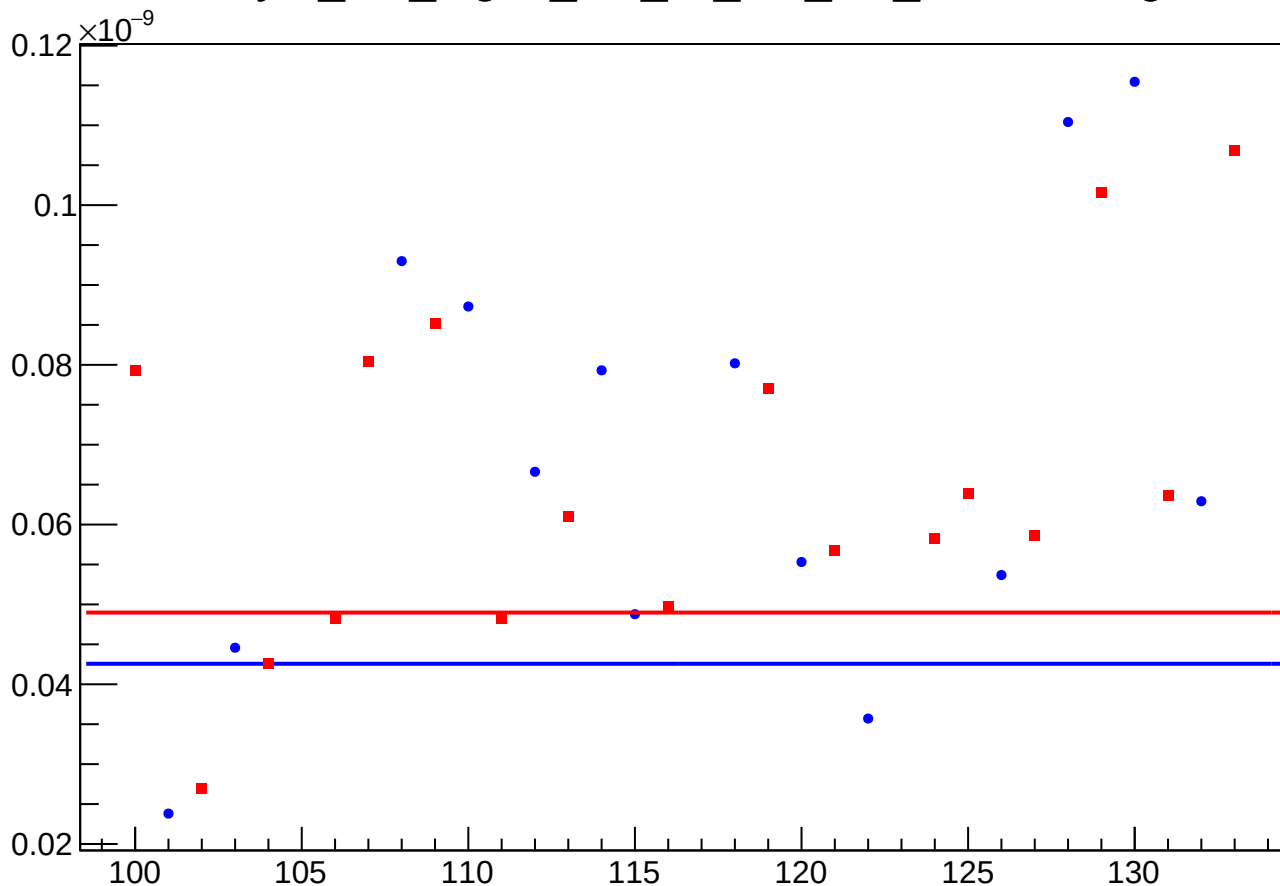
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 23.5/30

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

# asym\_usr\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1663934.2/13

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

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1188299.6/16

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

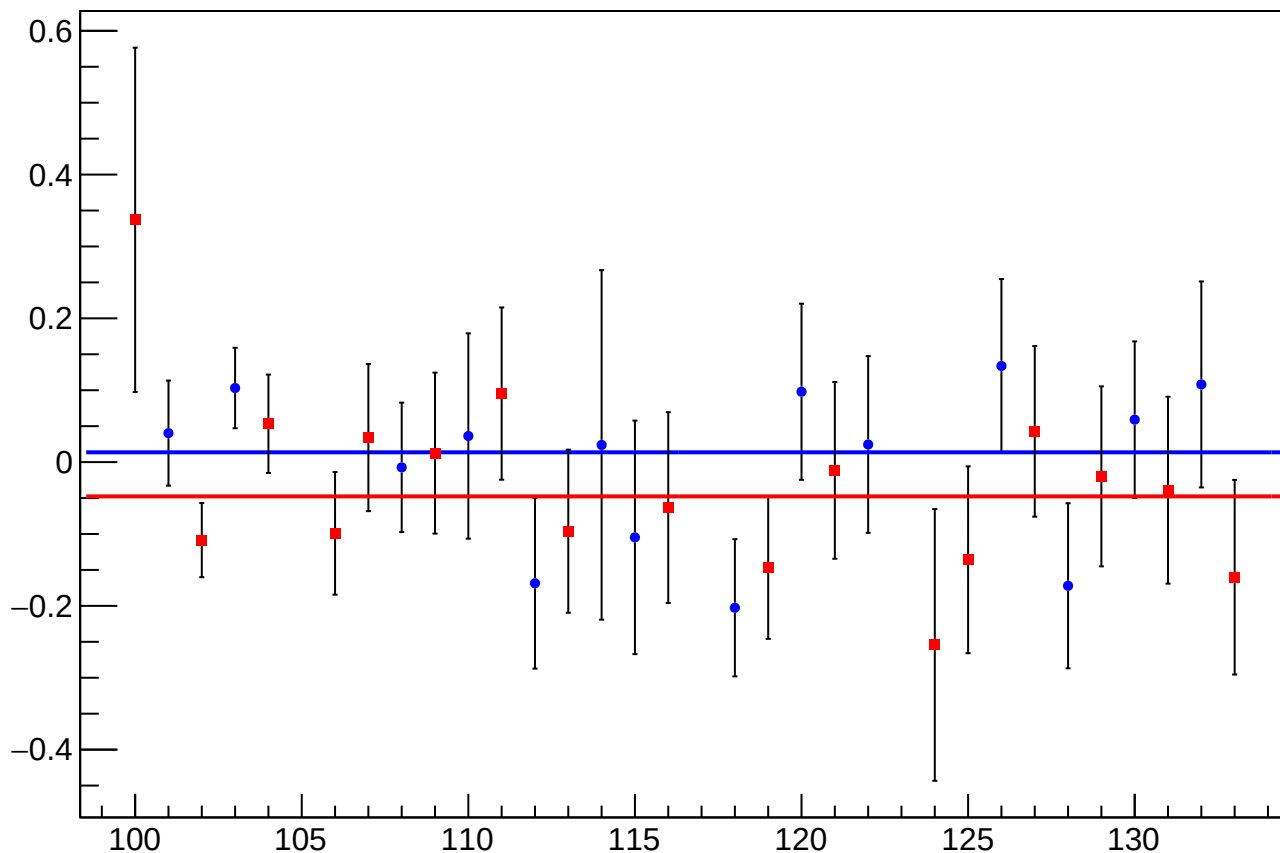
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2915047.8/30

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



# asym\_usr\_overload\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.014 $\pm$ 0.027  $\chi^2$ /NDF: 15.5/13

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

Right Out: -0.048 $\pm$ 0.025  $\chi^2$ /NDF: 13.2/16

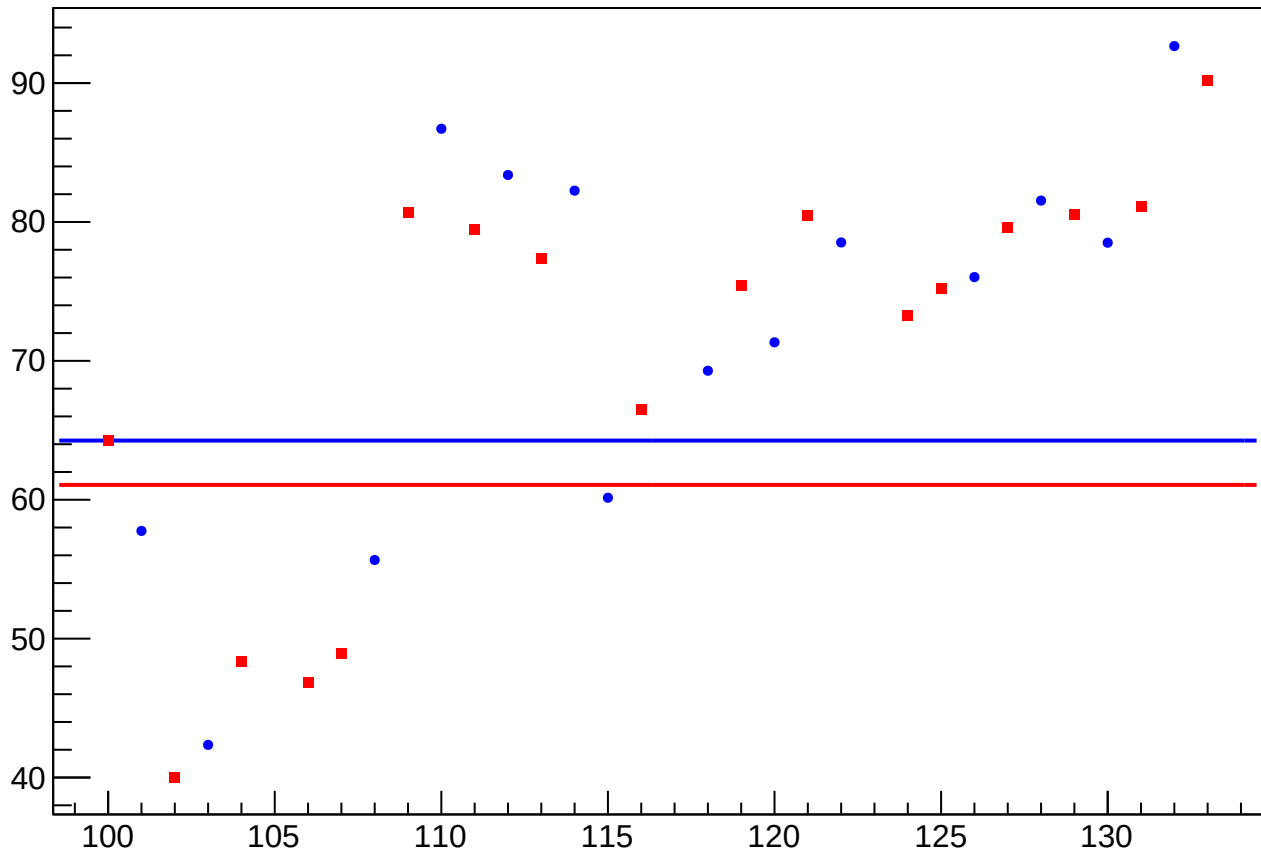
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.020 $\pm$ 0.018  $\chi^2$ /NDF: 31.4/30

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

# asym\_usr\_overload\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 64.262+/-0.019  $\chi^2/\text{NDF}$ : 670193.5/13

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

Right Out: 61.069+/-0.018  $\chi^2/\text{NDF}$ : 100223.9/16

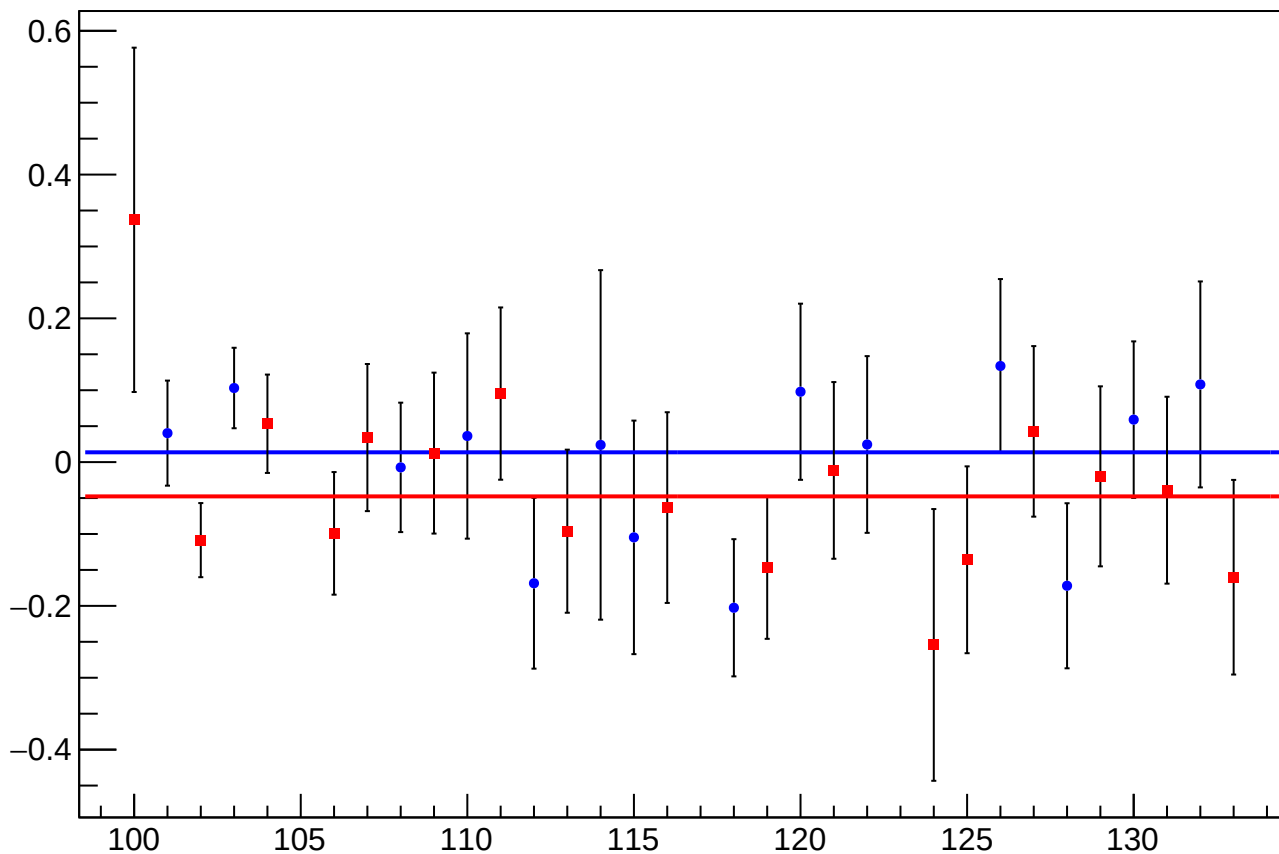
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 62.501+/-0.013  $\chi^2/\text{NDF}$ : 1687314.4/30

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

asym\_usr\_overload\_cor\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.014 $\pm$ 0.027  $\chi^2$ /NDF: 15.5/13

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

Right Out: -0.048 $\pm$ 0.025  $\chi^2$ /NDF: 13.2/16

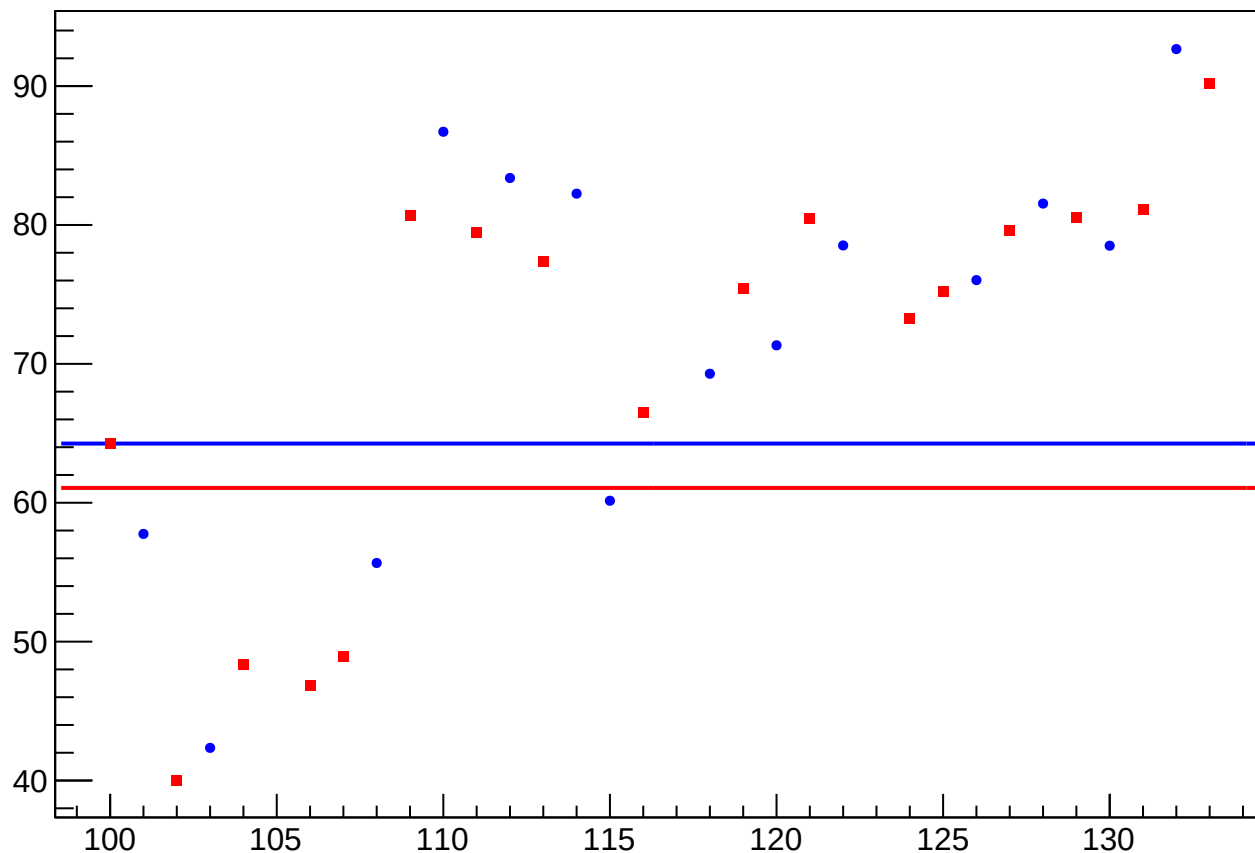
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.020 $\pm$ 0.018  $\chi^2$ /NDF: 31.4/30

- 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: 64.262+/-0.019  $\chi^2/\text{NDF}$ : 670193.5/13

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

Right Out: 61.069+/-0.018  $\chi^2/\text{NDF}$ : 100223.9/16

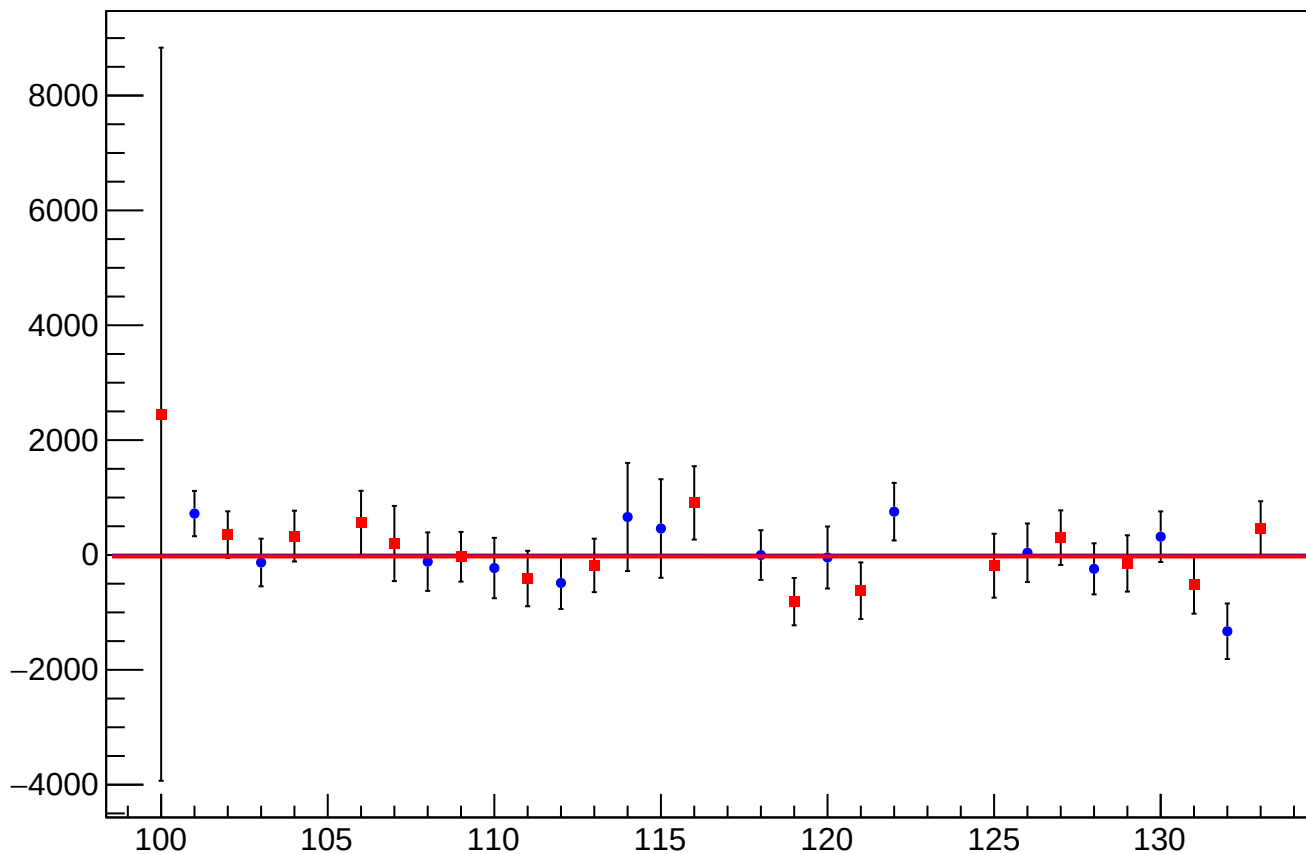
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 62.501+/-0.013  $\chi^2/\text{NDF}$ : 1687314.4/30

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

# asym\_dsl\_mean vs Slug



Right In: -11.568+/-131.144  $\chi^2/\text{NDF}$ : 16.2/13

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

Right Out: -25.376+/-125.396  $\chi^2/\text{NDF}$ : 13.5/15

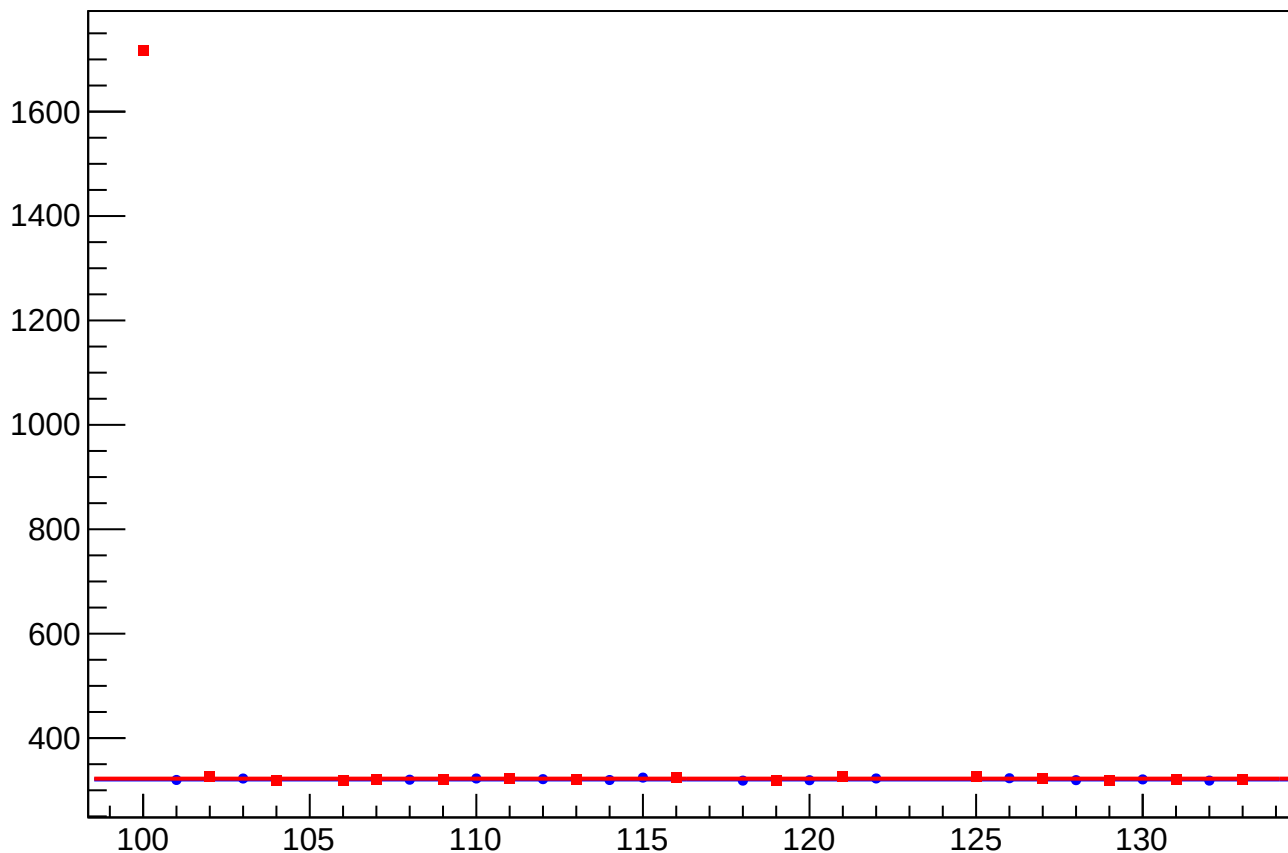
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -18.781+/-90.632  $\chi^2/\text{NDF}$ : 29.7/29

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

# asym\_dsl\_rms vs Slug



Right In: 320.738 $\pm$ 0.093  $\chi^2$ /NDF: 311.8/13

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

Right Out: 322.322 $\pm$ 0.089  $\chi^2$ /NDF: 96820.2/15

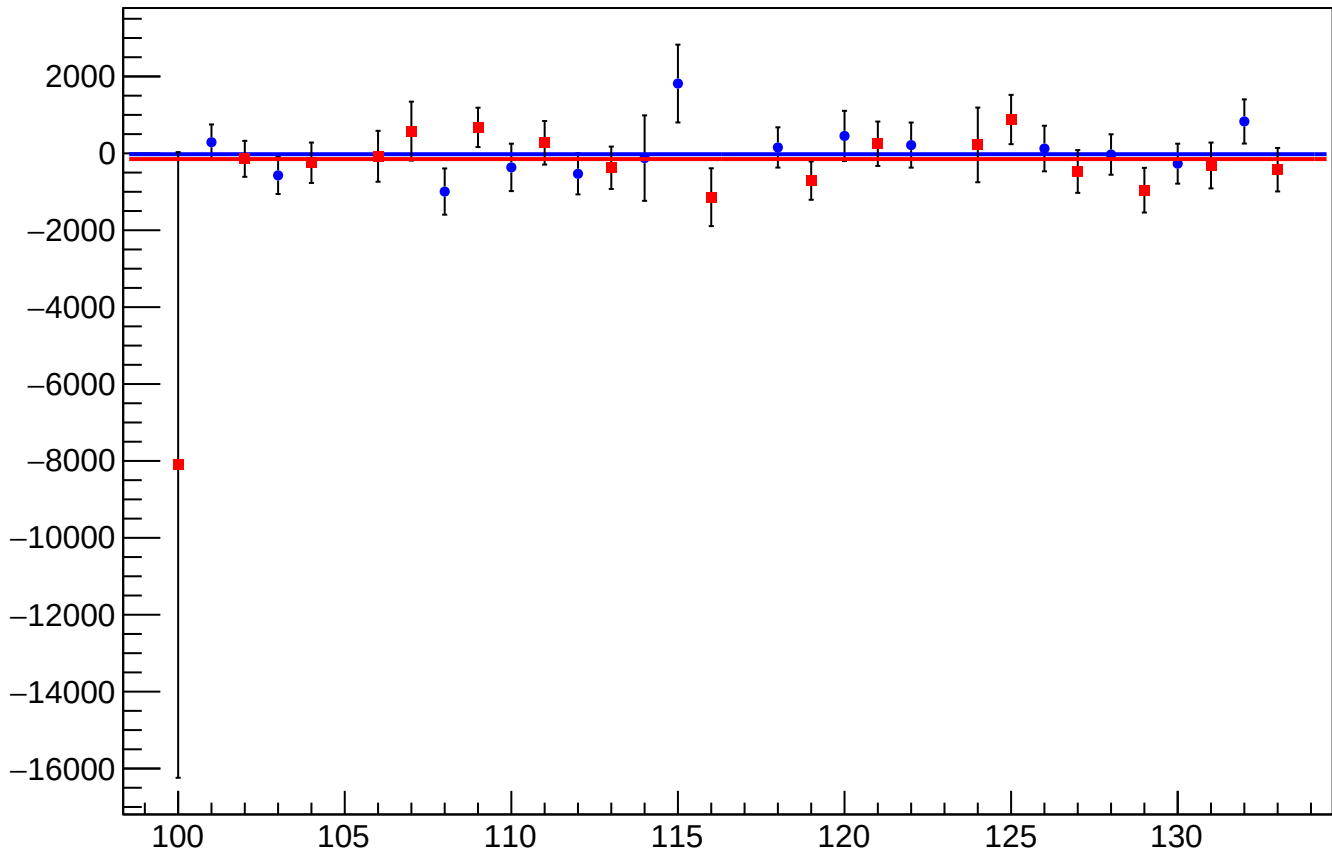
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 321.566 $\pm$ 0.064  $\chi^2$ /NDF: 97284.3/29

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

# asym\_dsr\_mean vs Slug



Right In:  $-22.903 \pm 154.891$   $\chi^2/\text{NDF}$ : 12.2/13

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

Right Out:  $-149.239 \pm 146.119$   $\chi^2/\text{NDF}$ : 14.0/16

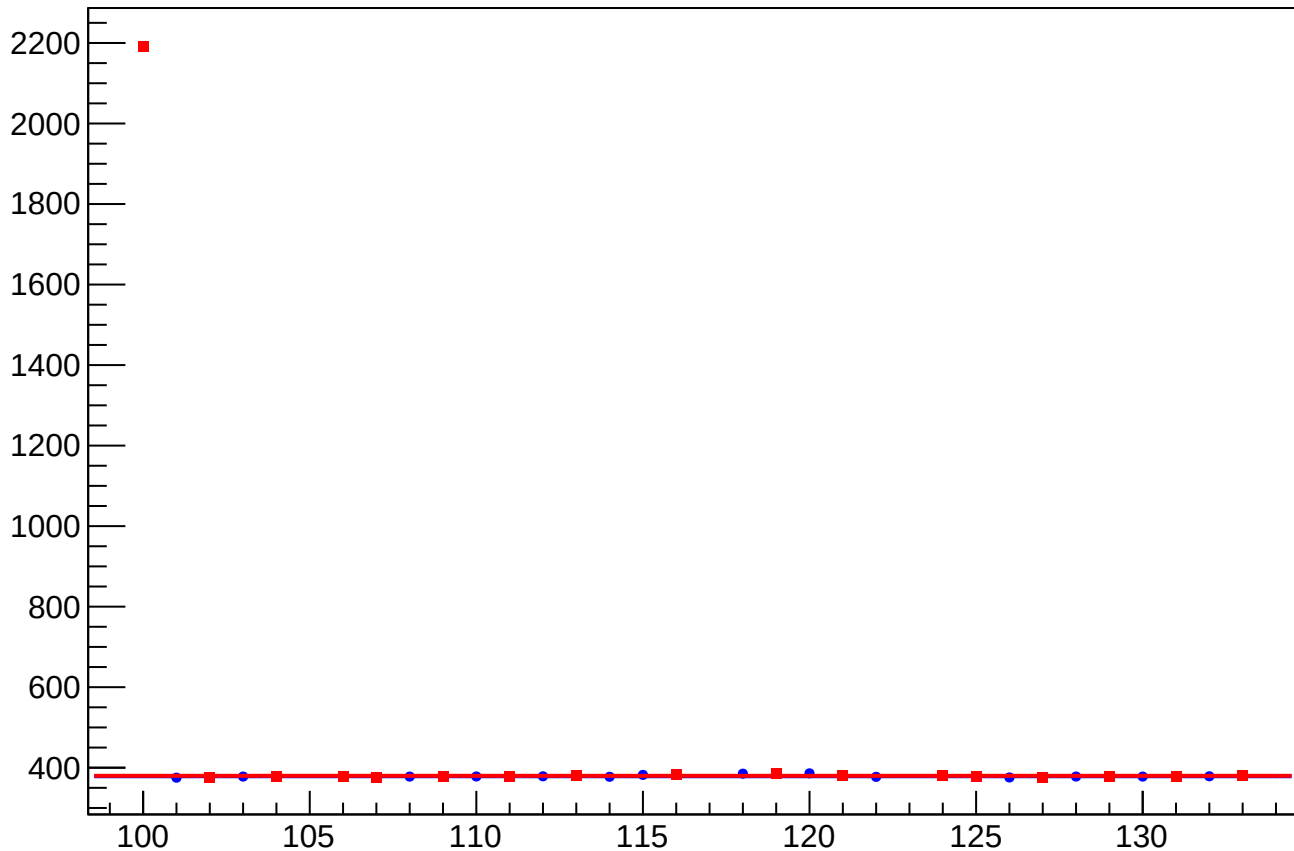
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-89.750 \pm 106.288$   $\chi^2/\text{NDF}$ : 26.5/30

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

# asym\_dsr\_rms vs Slug



Right In: 378.790 $\pm$ 0.110  $\chi^2$ /NDF: 767.8/13

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

Right Out: 379.888 $\pm$ 0.103  $\chi^2$ /NDF: 99579.5/16

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

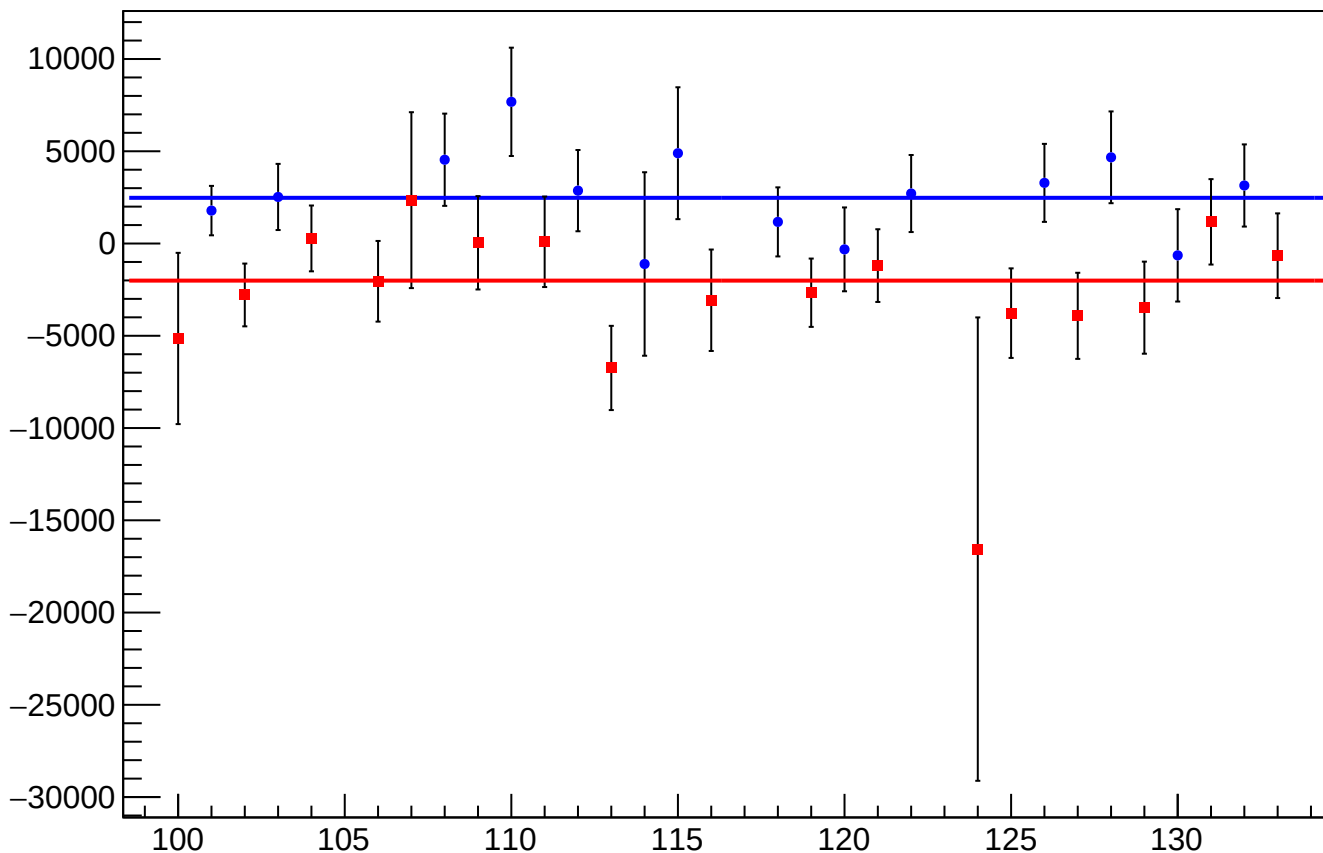
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 379.371 $\pm$ 0.075  $\chi^2$ /NDF: 100400.4/30

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



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



Right In: 2476.823+/-584.710  $\chi^2/\text{NDF}$ : 9.7/13

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

Right Out: -2010.087+/-572.334  $\chi^2/\text{NDF}$ : 14.4/16

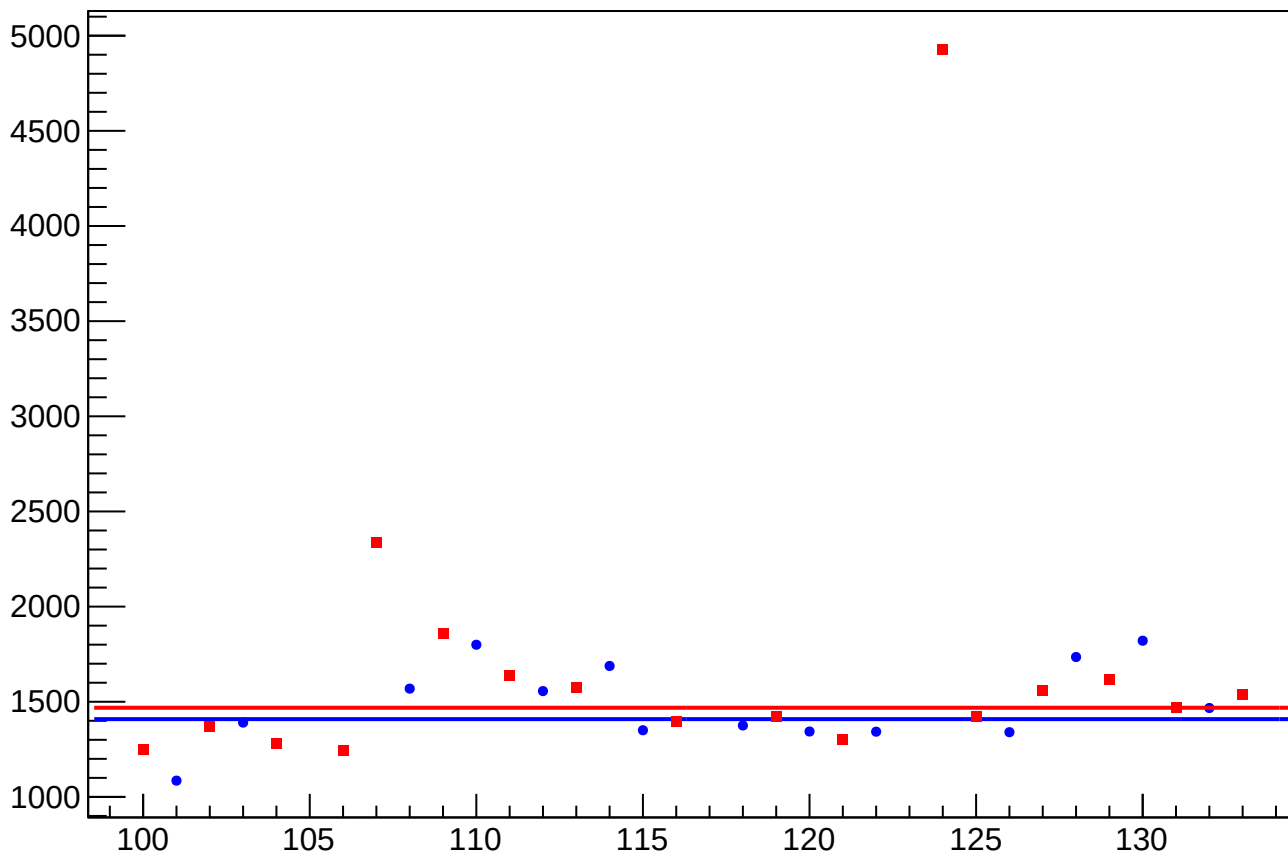
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 185.383+/-409.007  $\chi^2/\text{NDF}$ : 54.2/30

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

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



Right In: 1408.759+/-0.413  $\chi^2/\text{NDF}$ : 272513.1/13

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

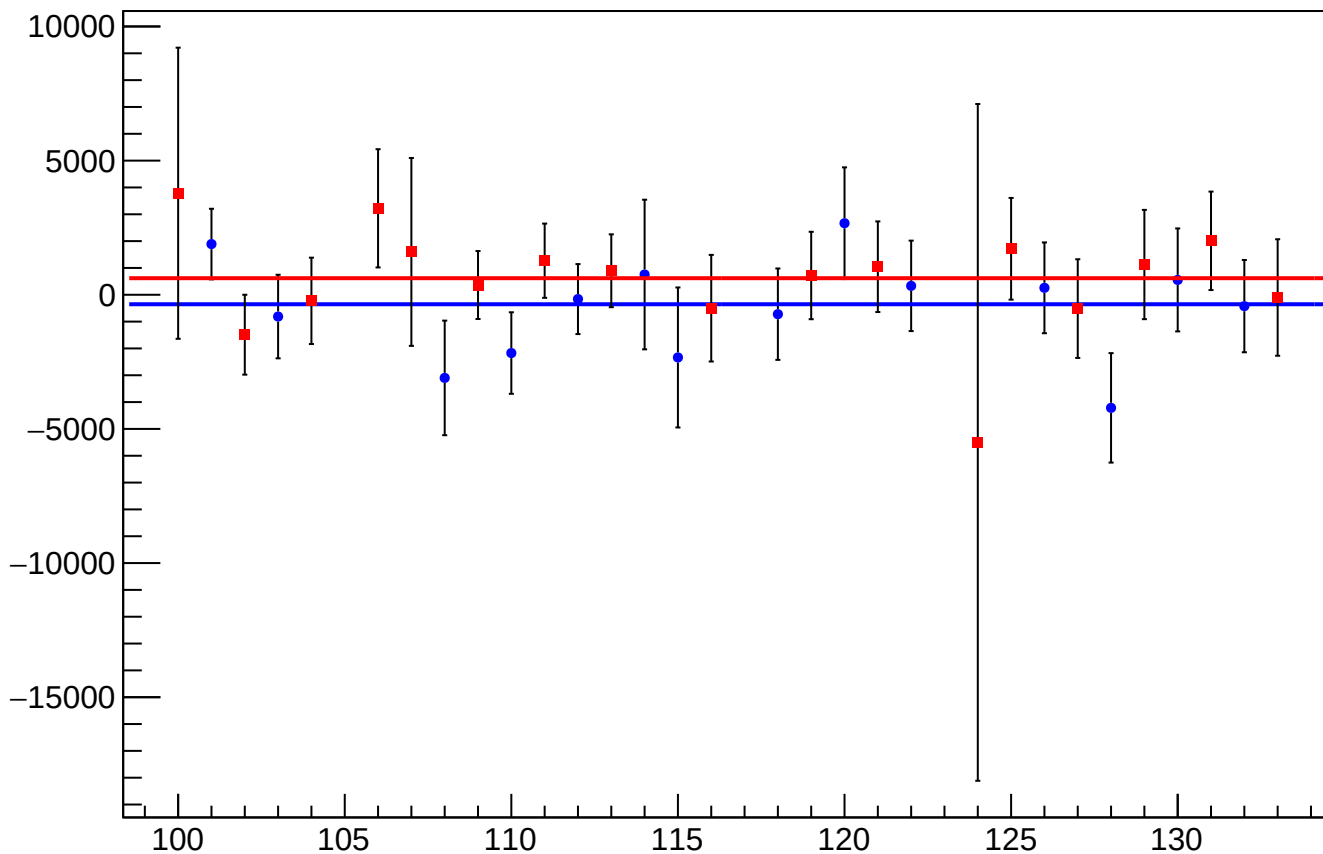
Right Out: 1468.526+/-0.405  $\chi^2/\text{NDF}$ : 364207.8/16

All: 1439.282+/-0.289  $\chi^2/\text{NDF}$ : 647393.0/30

- 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\_agg\_dd\_mean vs Slug



Right In:  $-353.108 \pm 464.613$   $\chi^2/\text{NDF}$ : 13.1/13

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

Right Out:  $617.872 \pm 440.324$   $\chi^2/\text{NDF}$ : 6.5/16

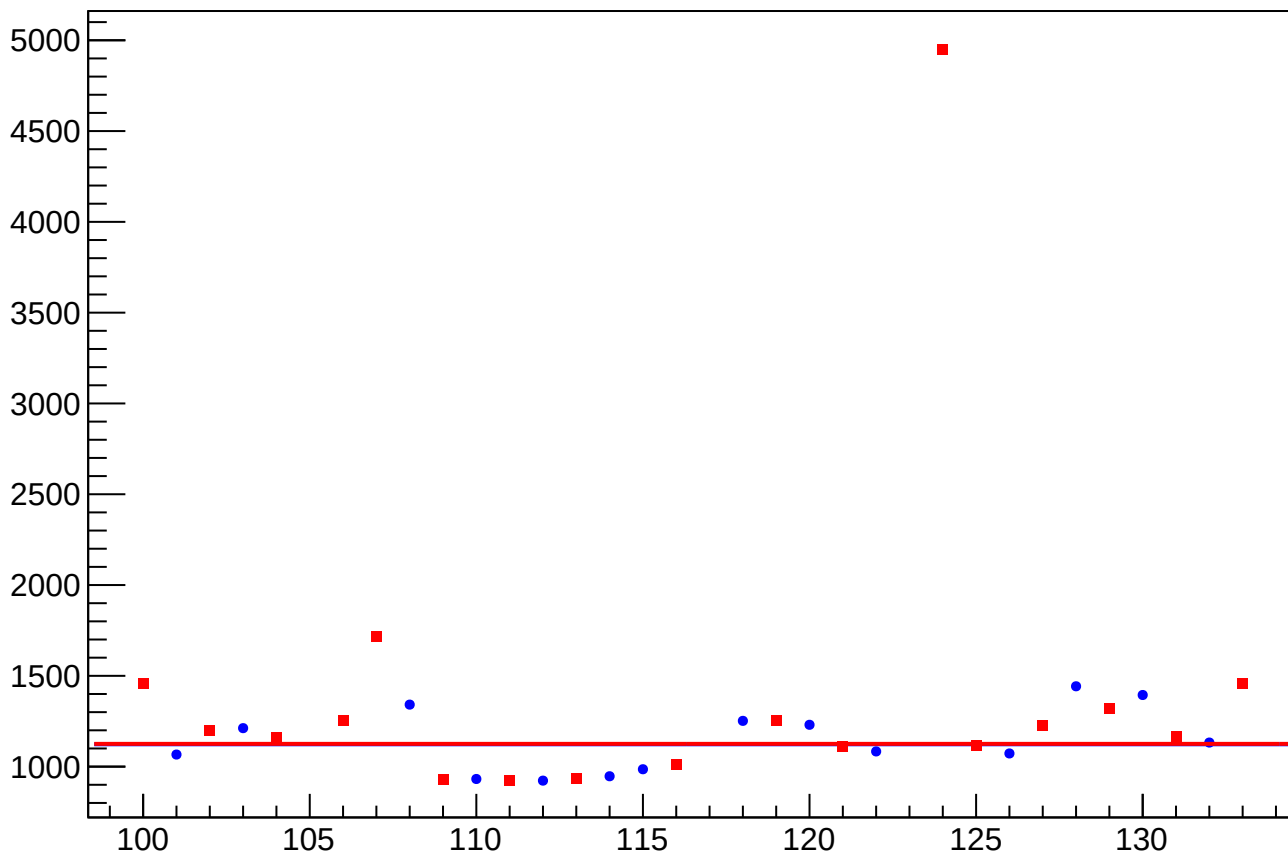
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $158.425 \pm 319.598$   $\chi^2/\text{NDF}$ : 21.9/30

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

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



Right In: 1123.064 $\pm$ 0.329  $\chi^2$ /NDF: 232148.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1125.340 $\pm$ 0.311  $\chi^2$ /NDF: 483606.4/16

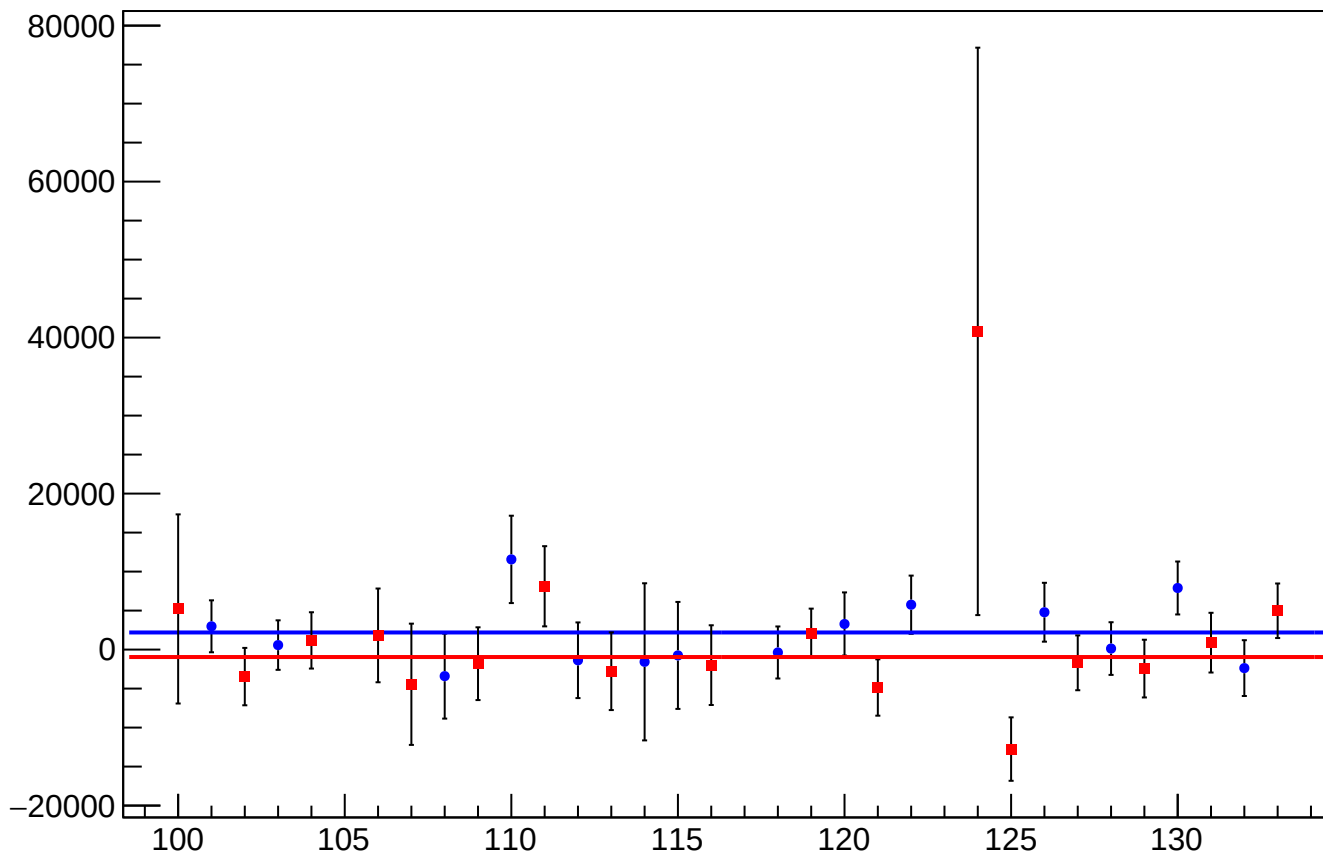
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1124.263 $\pm$ 0.226  $\chi^2$ /NDF: 715779.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1\_mean vs Slug



Right In: 2194.098+/-1069.629  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -954.263+/-1049.972  $\chi^2/\text{NDF}$ : 20.0/16

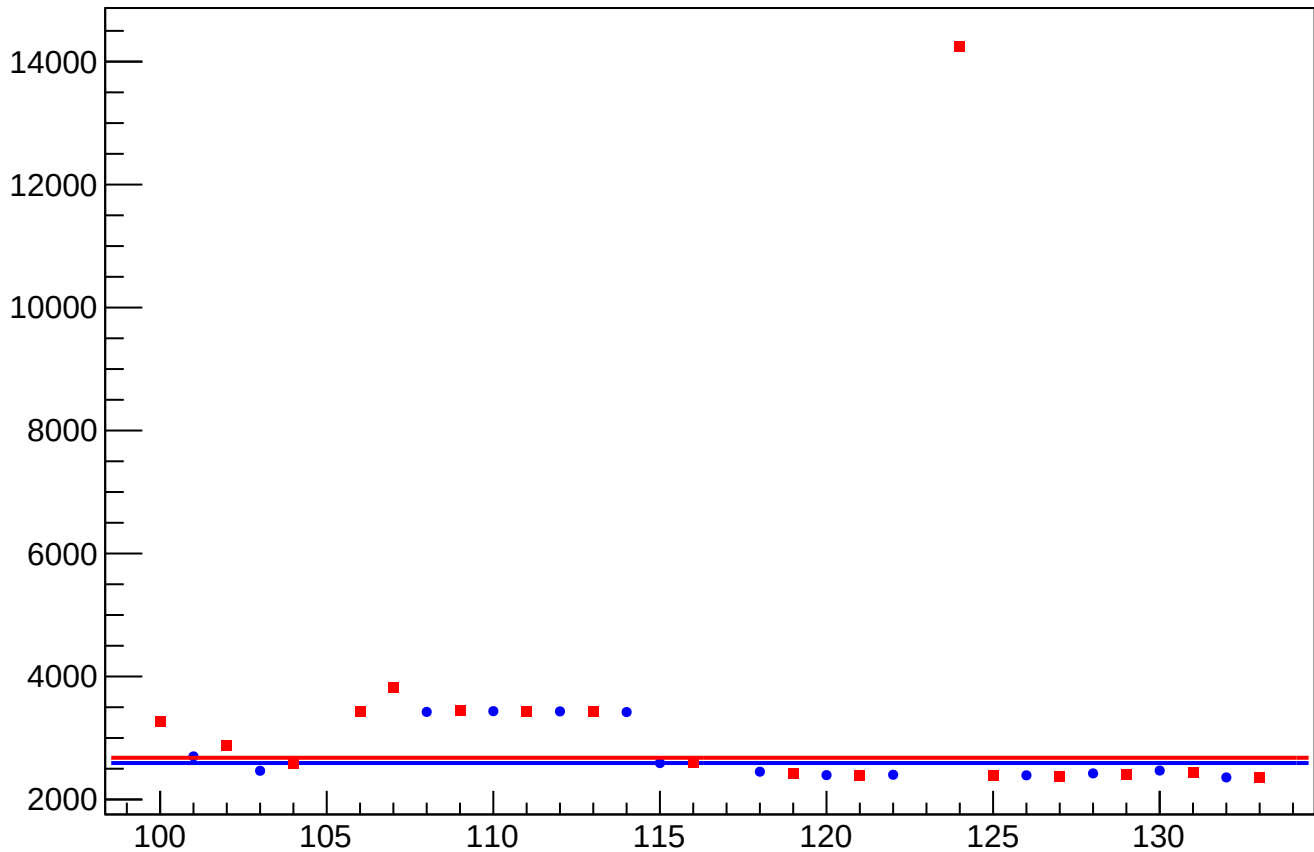
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 590.722+/-749.295  $\chi^2/\text{NDF}$ : 36.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_rms vs Slug



Right In: 2592.643+/-0.756  $\chi^2/\text{NDF}$ : 205932.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2678.337+/-0.742  $\chi^2/\text{NDF}$ : 520661.6/16

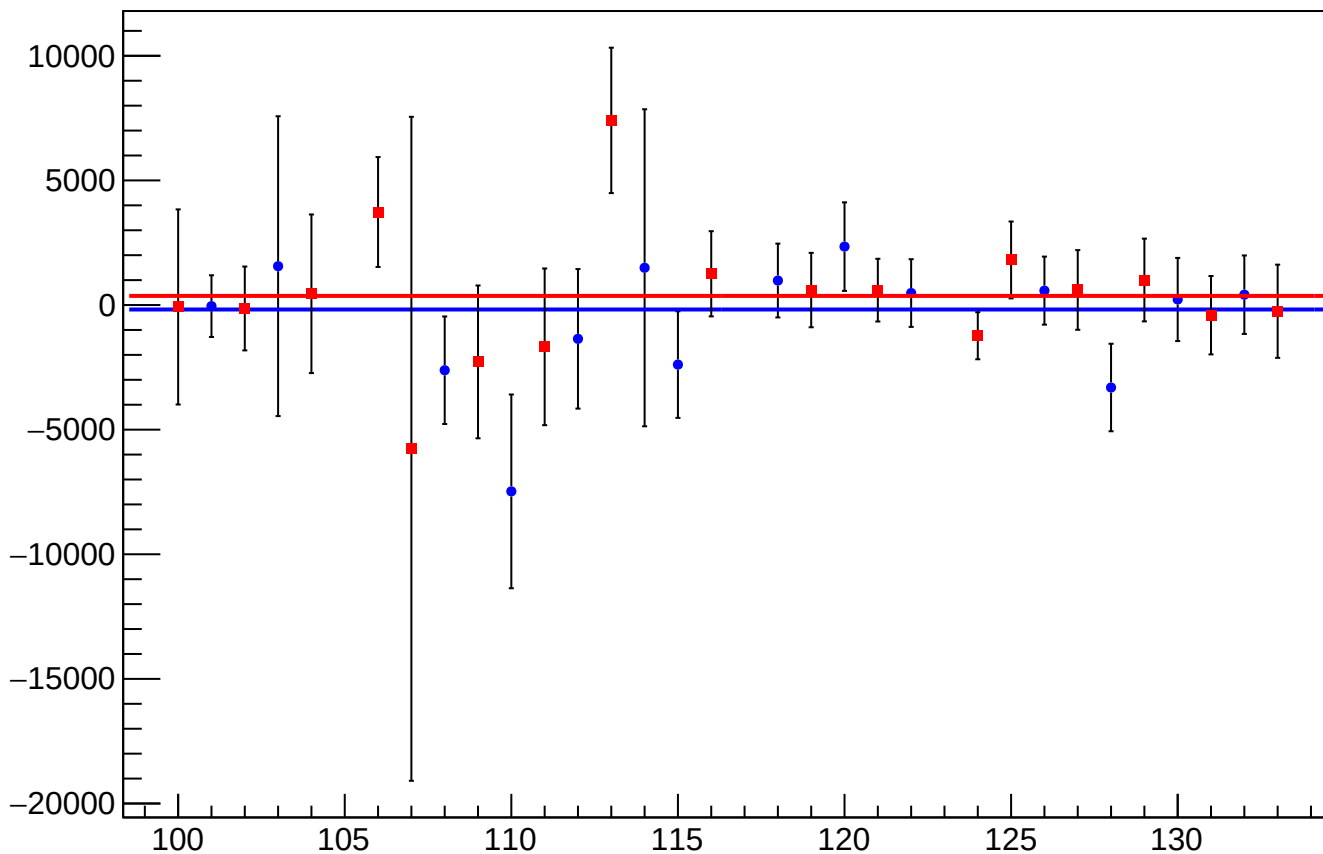
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2636.285+/-0.530  $\chi^2/\text{NDF}$ : 733131.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_reg\_correction\_mean vs Slug



Right In: -178.660 $\pm$ 483.819  $\chi^2$ /NDF: 12.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 366.577 $\pm$ 427.790  $\chi^2$ /NDF: 14.2/16

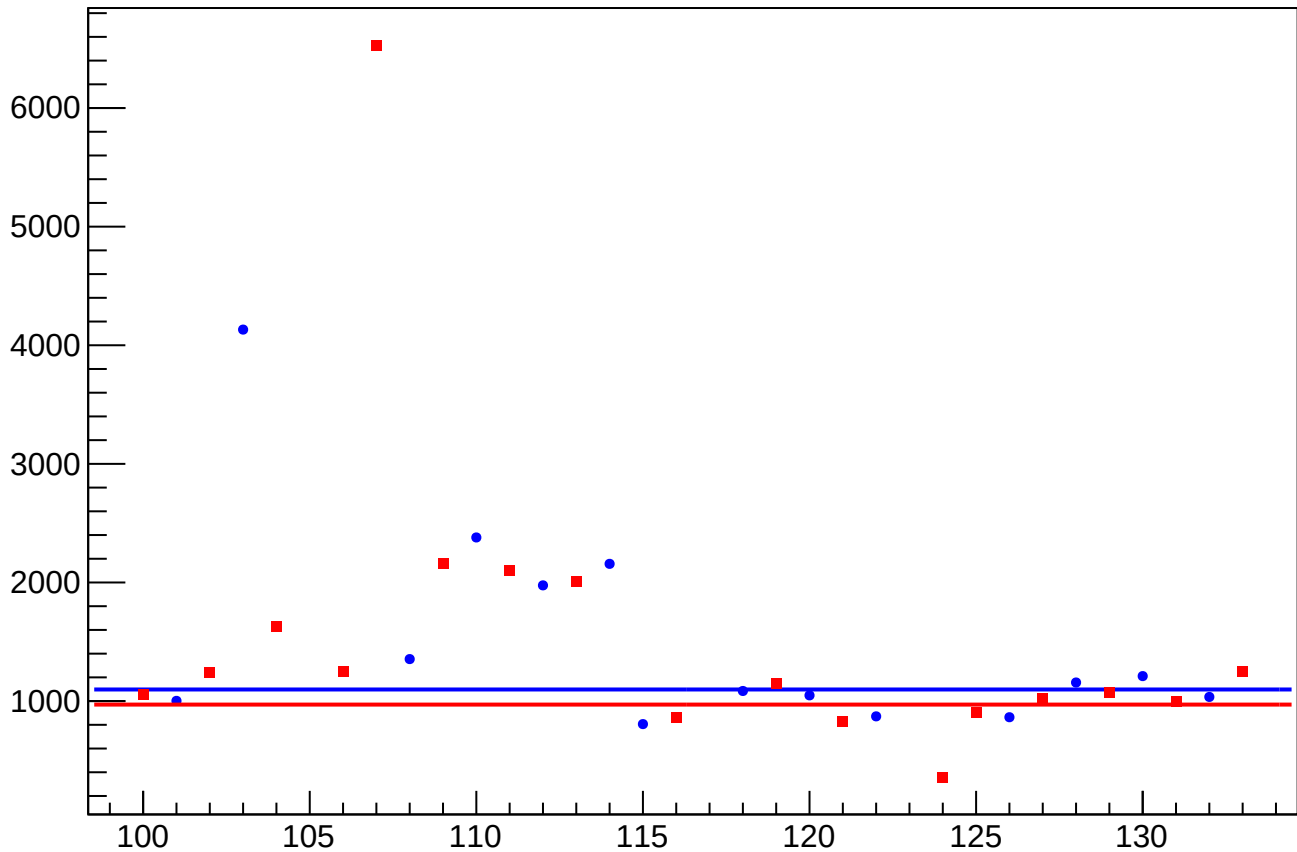
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 127.343 $\pm$ 320.480  $\chi^2$ /NDF: 27.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_reg\_correction\_rms vs Slug



Right In: 1097.872 $\pm$ 0.342  $\chi^2$ /NDF: 1186552.0/13

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: 970.514 $\pm$ 0.302  $\chi^2$ /NDF: 2306090.4/16

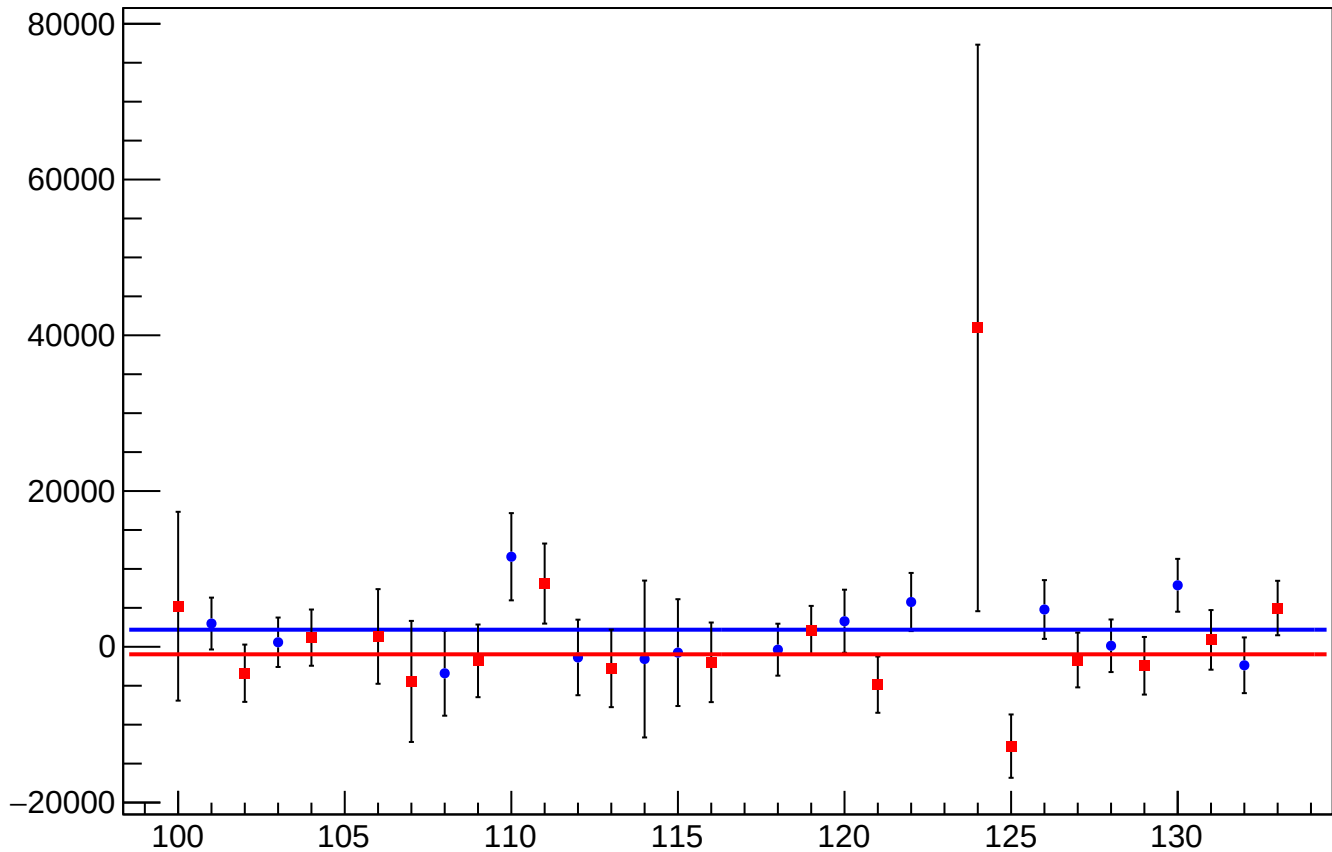
All: 1026.395 $\pm$ 0.227  $\chi^2$ /NDF: 3570421.0/30

- 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\_atl1\_mean vs Slug



Right In: 2194.536+/-1069.629  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -964.864+/-1050.336  $\chi^2/\text{NDF}$ : 19.9/16

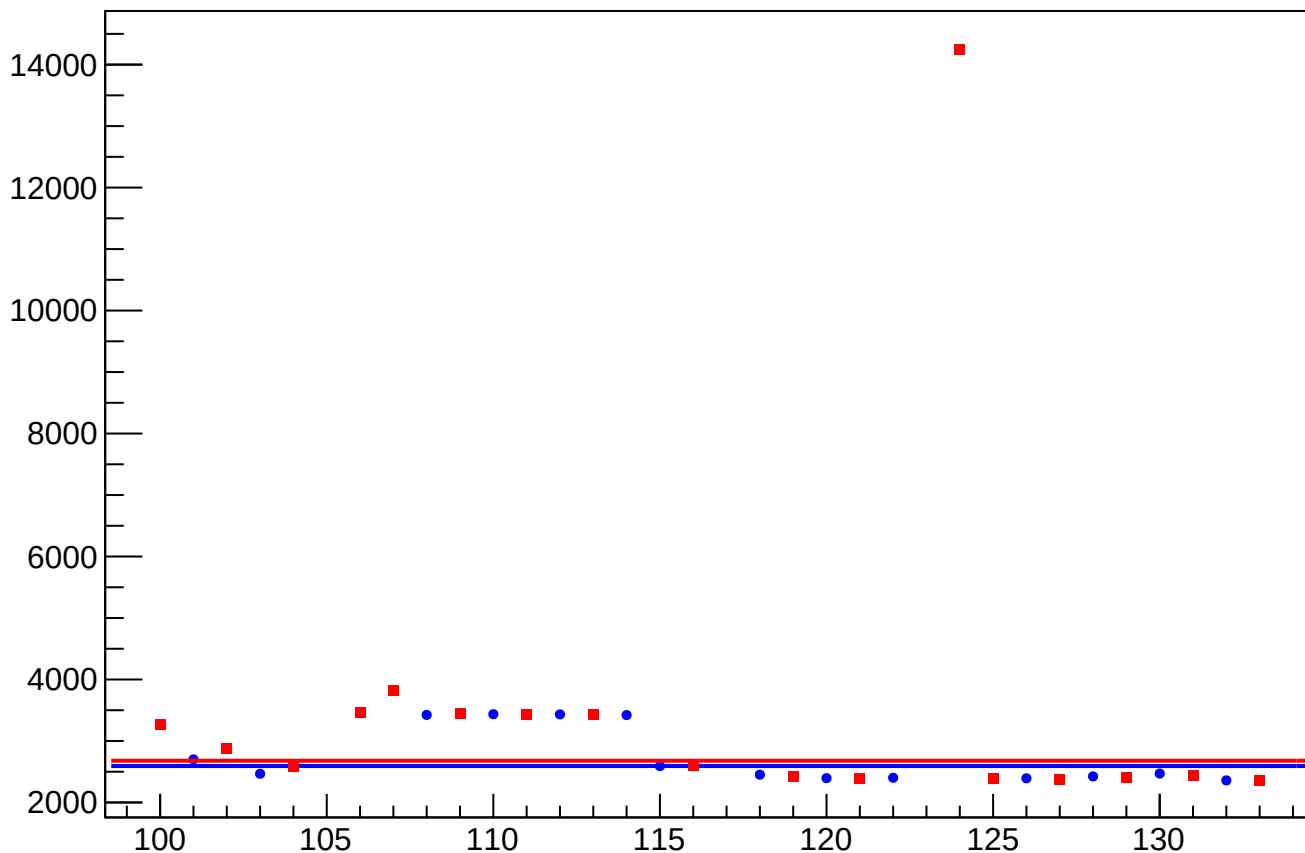
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 586.086+/-749.428  $\chi^2/\text{NDF}$ : 36.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl1\_rms vs Slug



Right In: 2592.644+/-0.756  $\chi^2/\text{NDF}$ : 205932.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2678.992+/-0.743  $\chi^2/\text{NDF}$ : 523166.8/16

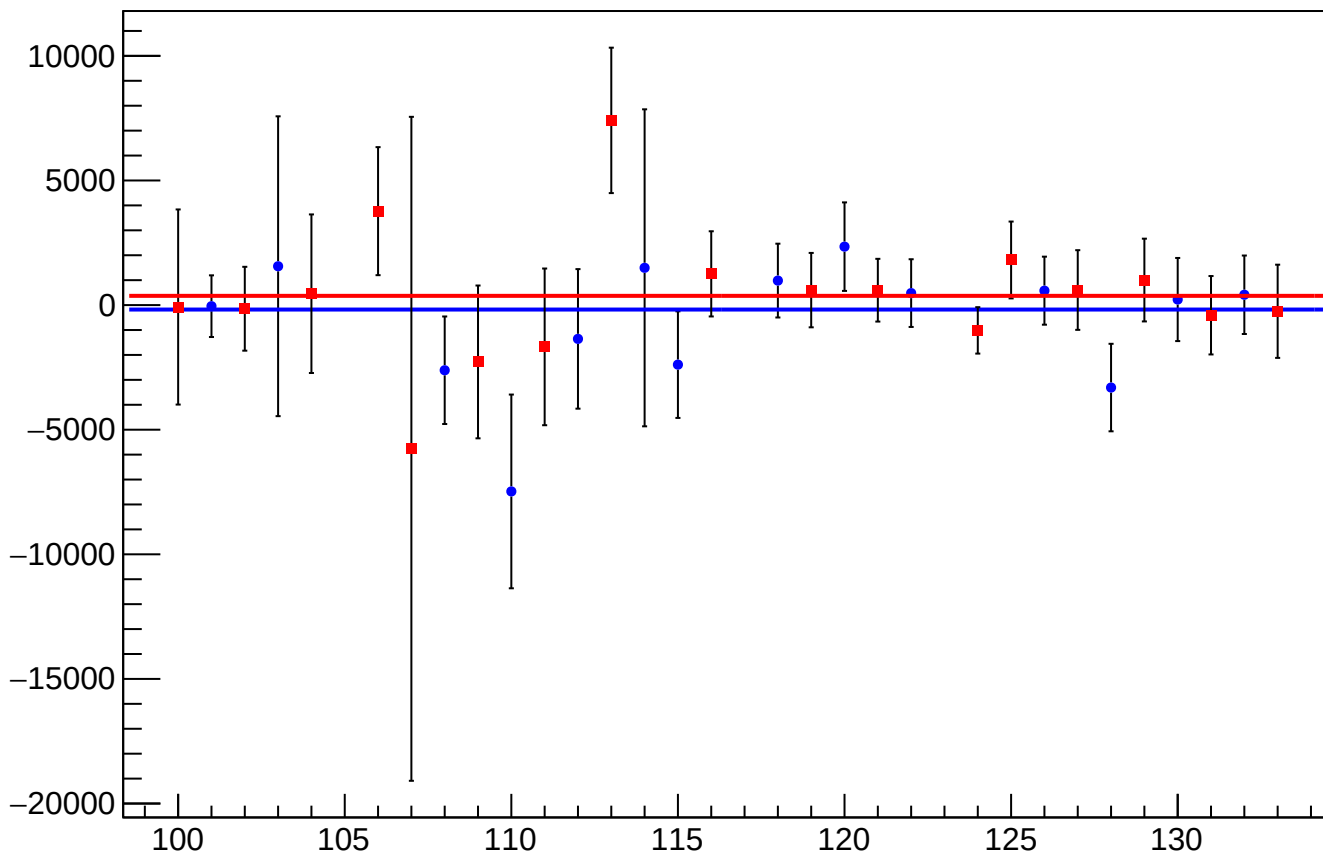
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2636.603+/-0.530  $\chi^2/\text{NDF}$ : 735734.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_cor\_correction\_mean vs Slug



Right In:  $-178.707 \pm 483.818$   $\chi^2/\text{NDF}$ : 12.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $370.978 \pm 428.741$   $\chi^2/\text{NDF}$ : 13.0/16

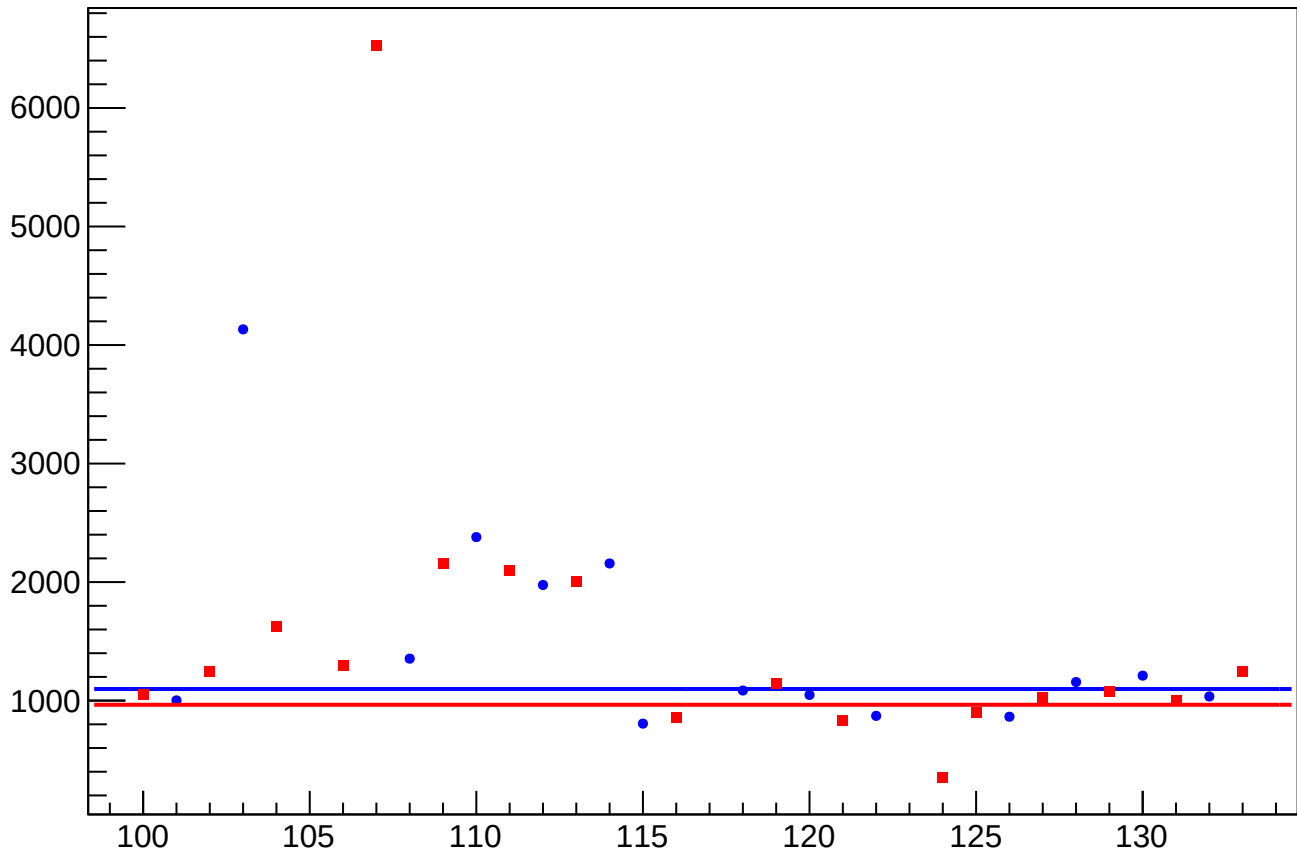
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $129.191 \pm 320.879$   $\chi^2/\text{NDF}$ : 26.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_cor\_correction\_rms vs Slug



Right In: 1097.869 $\pm$ 0.342  $\chi^2$ /NDF: 1186528.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 964.743 $\pm$ 0.303  $\chi^2$ /NDF: 2341887.1/16

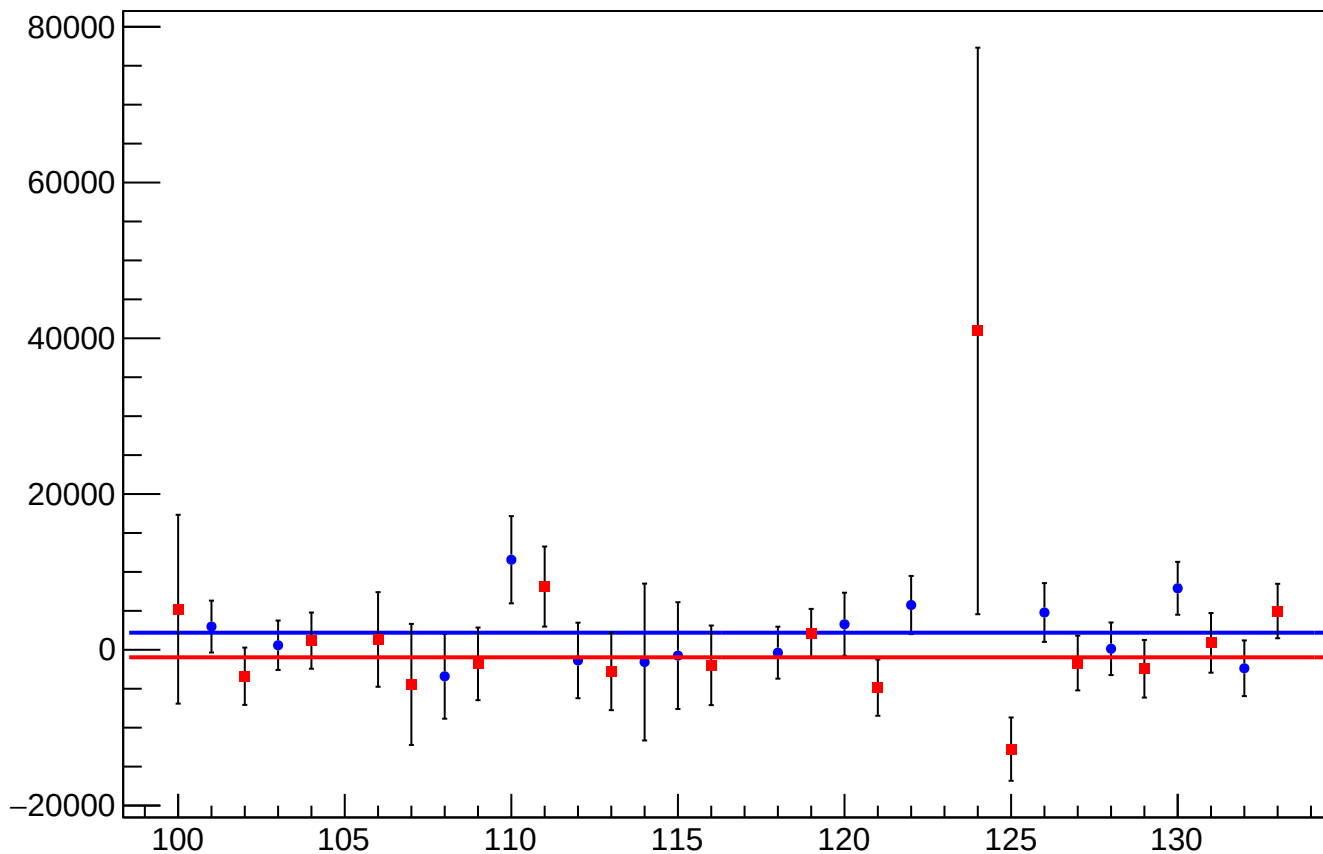
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1023.300 $\pm$ 0.227  $\chi^2$ /NDF: 3613231.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atl1\_mean vs Slug



Right In: 2194.536+/-1069.629  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -964.864+/-1050.336  $\chi^2/\text{NDF}$ : 19.9/16

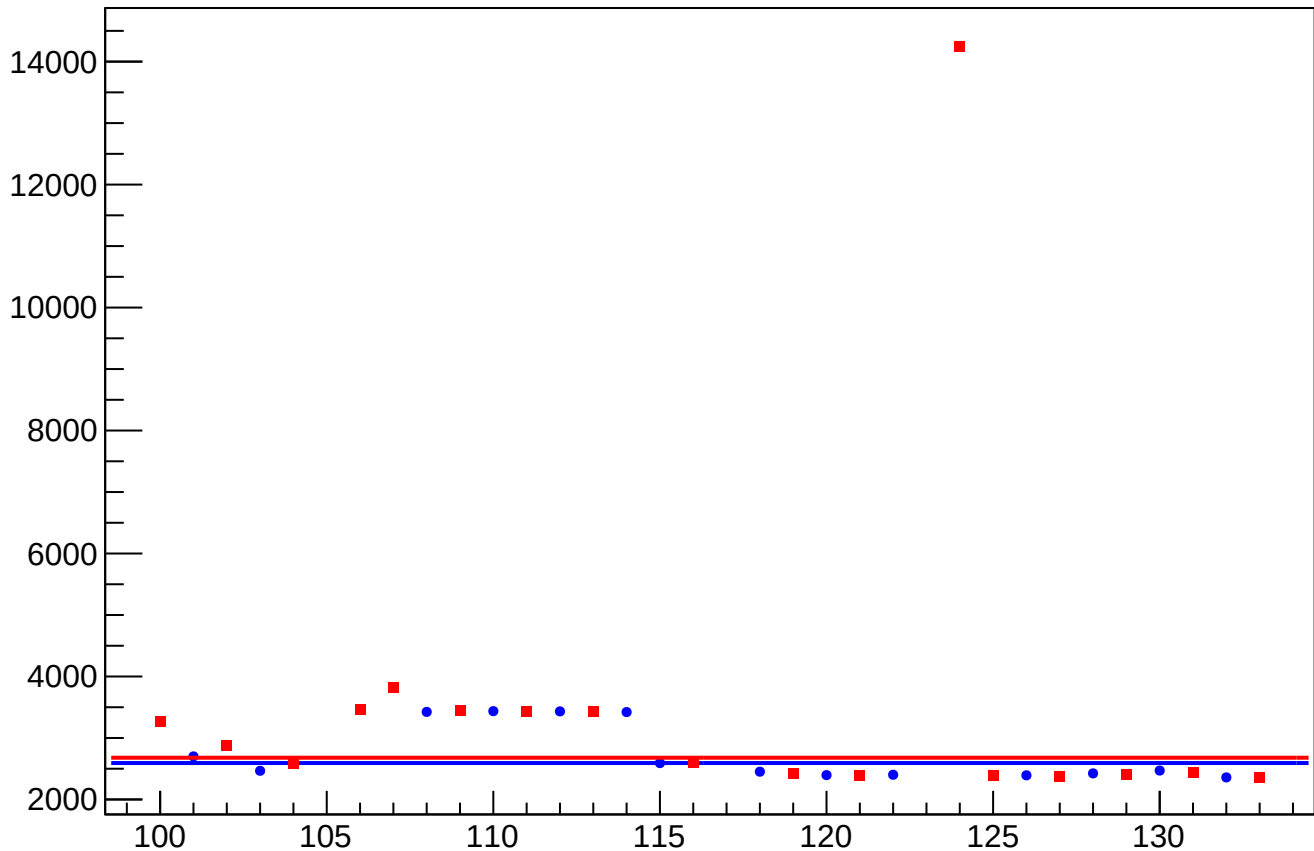
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 586.086+/-749.428  $\chi^2/\text{NDF}$ : 36.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl1\_rms vs Slug



Right In: 2592.644+/-0.756  $\chi^2/\text{NDF}$ : 205932.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2678.992+/-0.743  $\chi^2/\text{NDF}$ : 523166.8/16

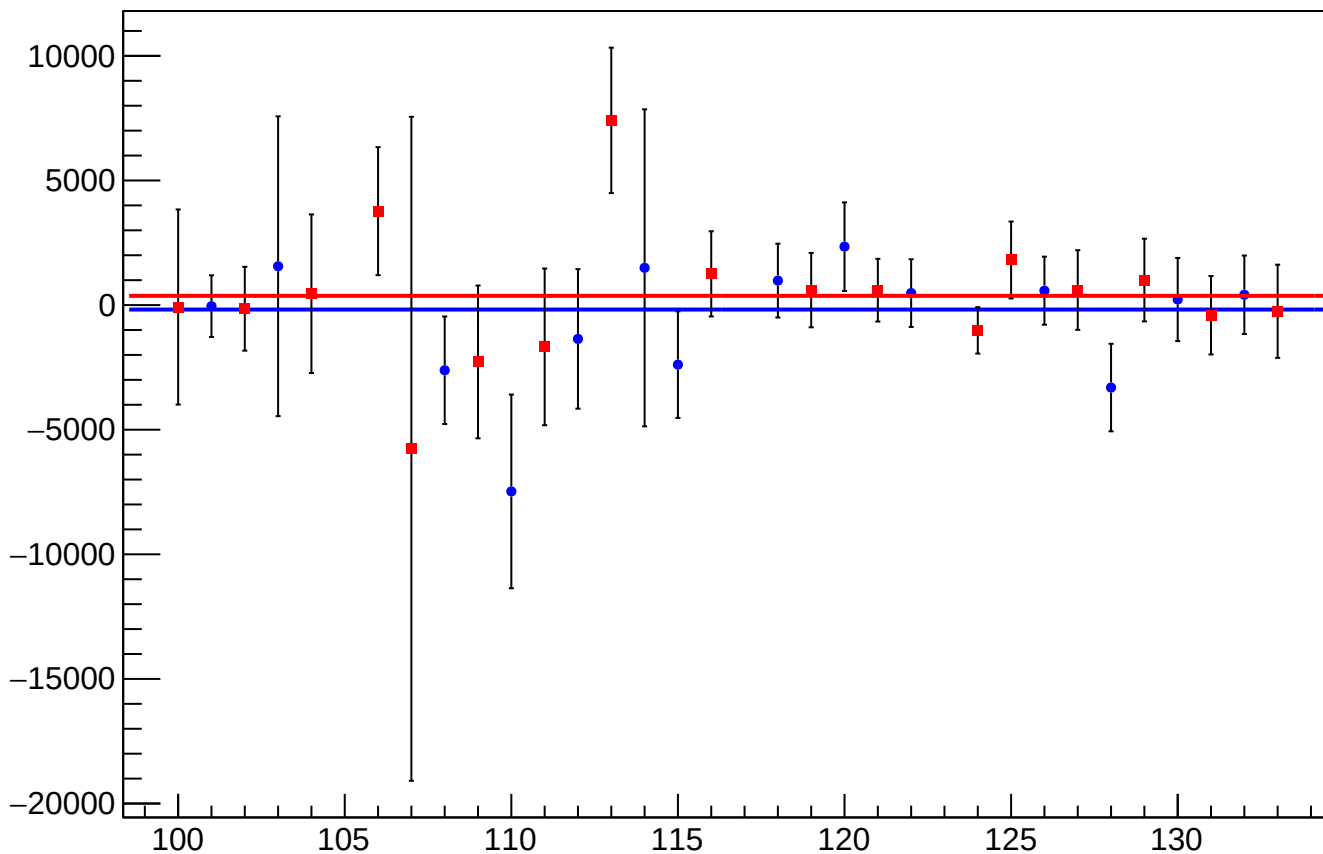
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2636.603+/-0.530  $\chi^2/\text{NDF}$ : 735734.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_cor\_correction\_mean vs Slug



Right In:  $-178.707 \pm 483.818$   $\chi^2/\text{NDF}$ : 12.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $370.978 \pm 428.741$   $\chi^2/\text{NDF}$ : 13.0/16

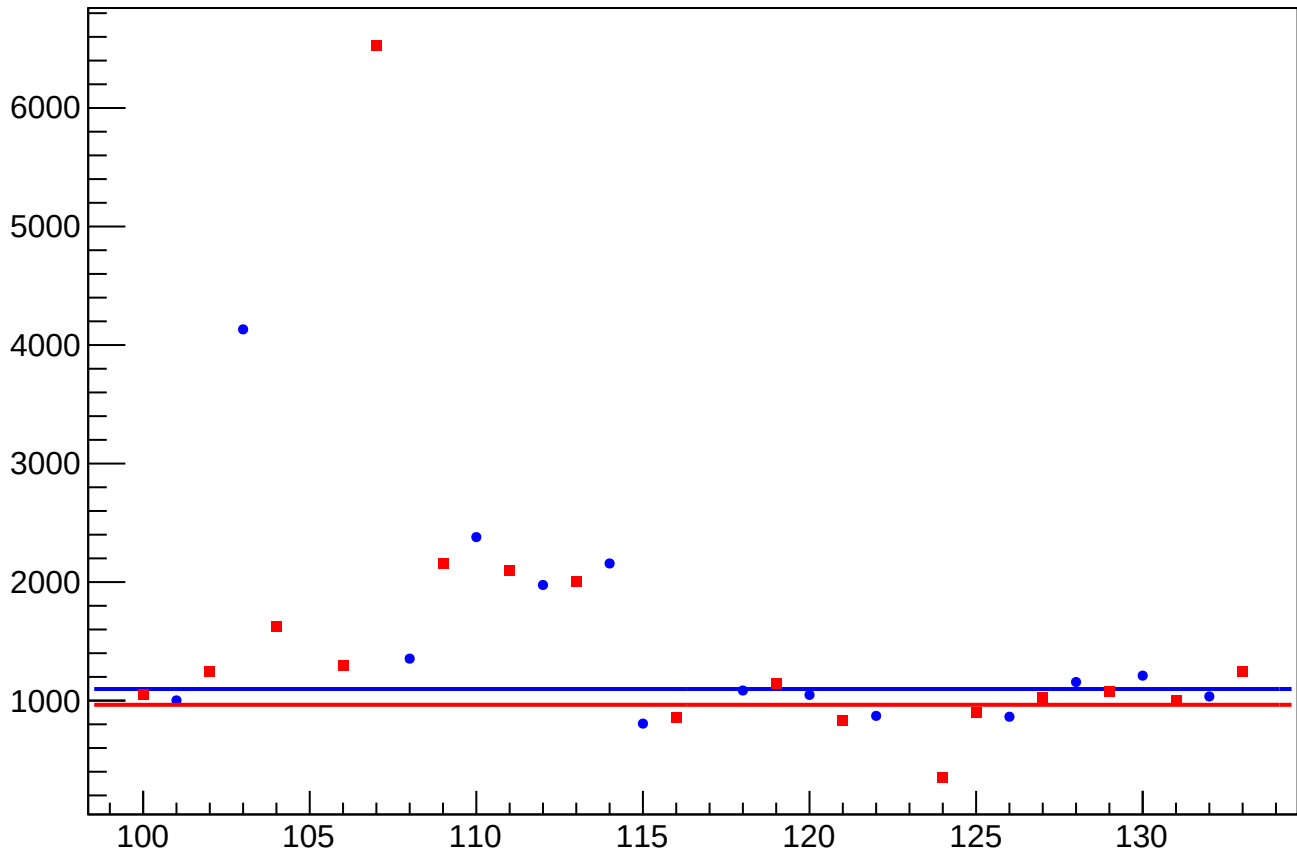
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $129.191 \pm 320.879$   $\chi^2/\text{NDF}$ : 26.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_cor\_correction\_rms vs Slug



Right In: 1097.869 $\pm$ 0.342  $\chi^2$ /NDF: 1186528.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 964.743 $\pm$ 0.303  $\chi^2$ /NDF: 2341887.1/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

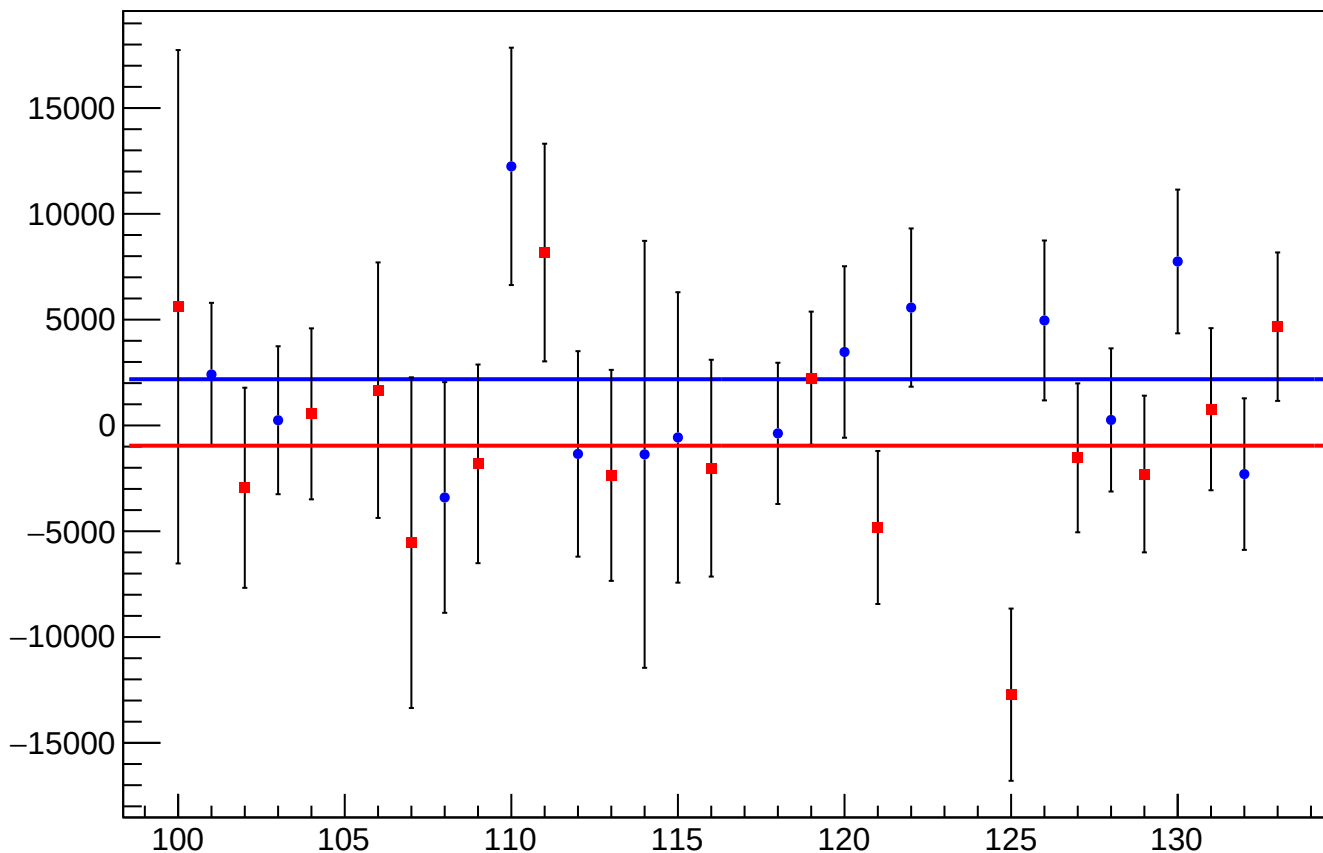
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1023.300 $\pm$ 0.227  $\chi^2$ /NDF: 3613231.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# dit\_asym\_atl1\_mean vs Slug



Right In: 2184.148 $\pm$ 1083.143  $\chi^2$ /NDF: 12.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -956.025 $\pm$ 1078.879  $\chi^2$ /NDF: 17.9/15

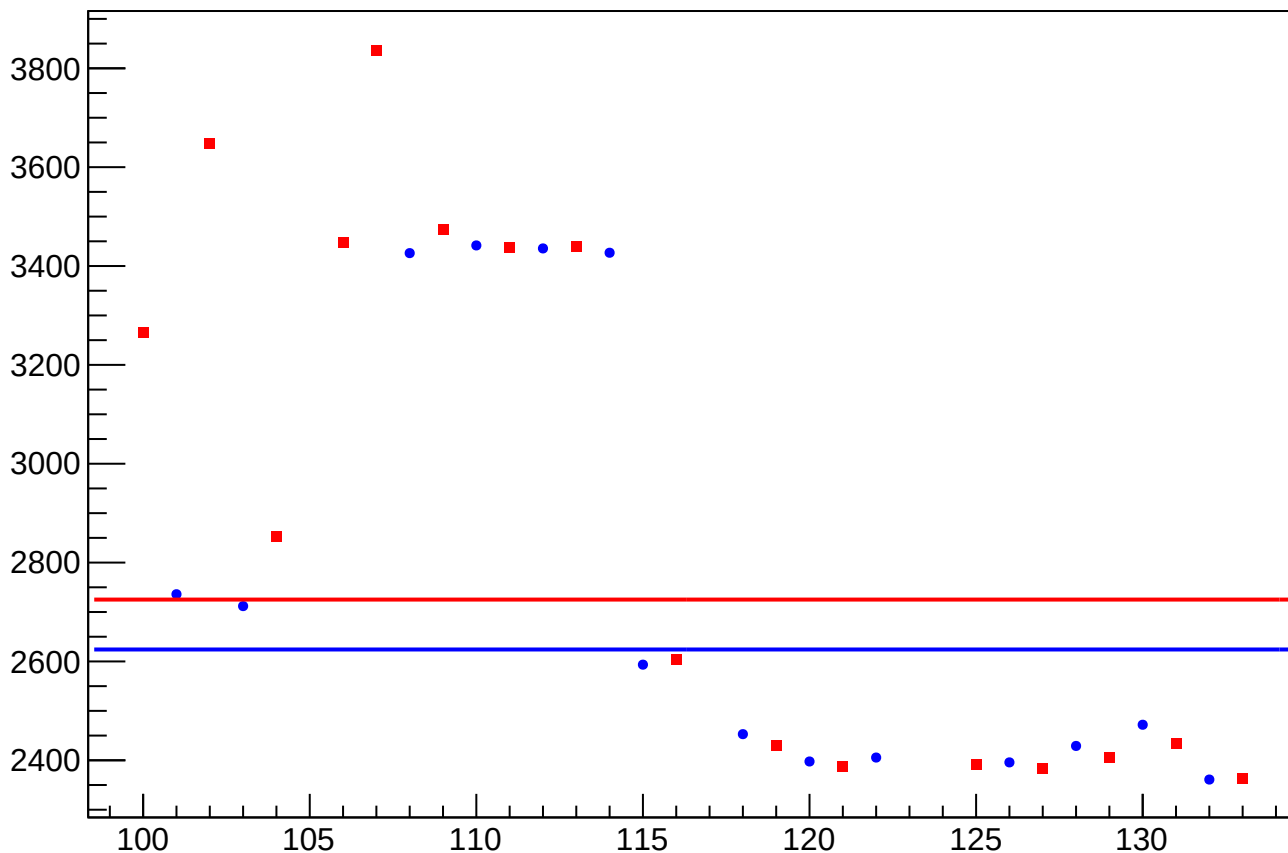
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 607.870 $\pm$ 764.386  $\chi^2$ /NDF: 34.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atl1\_rms vs Slug



Right In: 2624.181 $\pm$ 0.766  $\chi^2$ /NDF: 204920.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2725.167 $\pm$ 0.763  $\chi^2$ /NDF: 397770.3/15

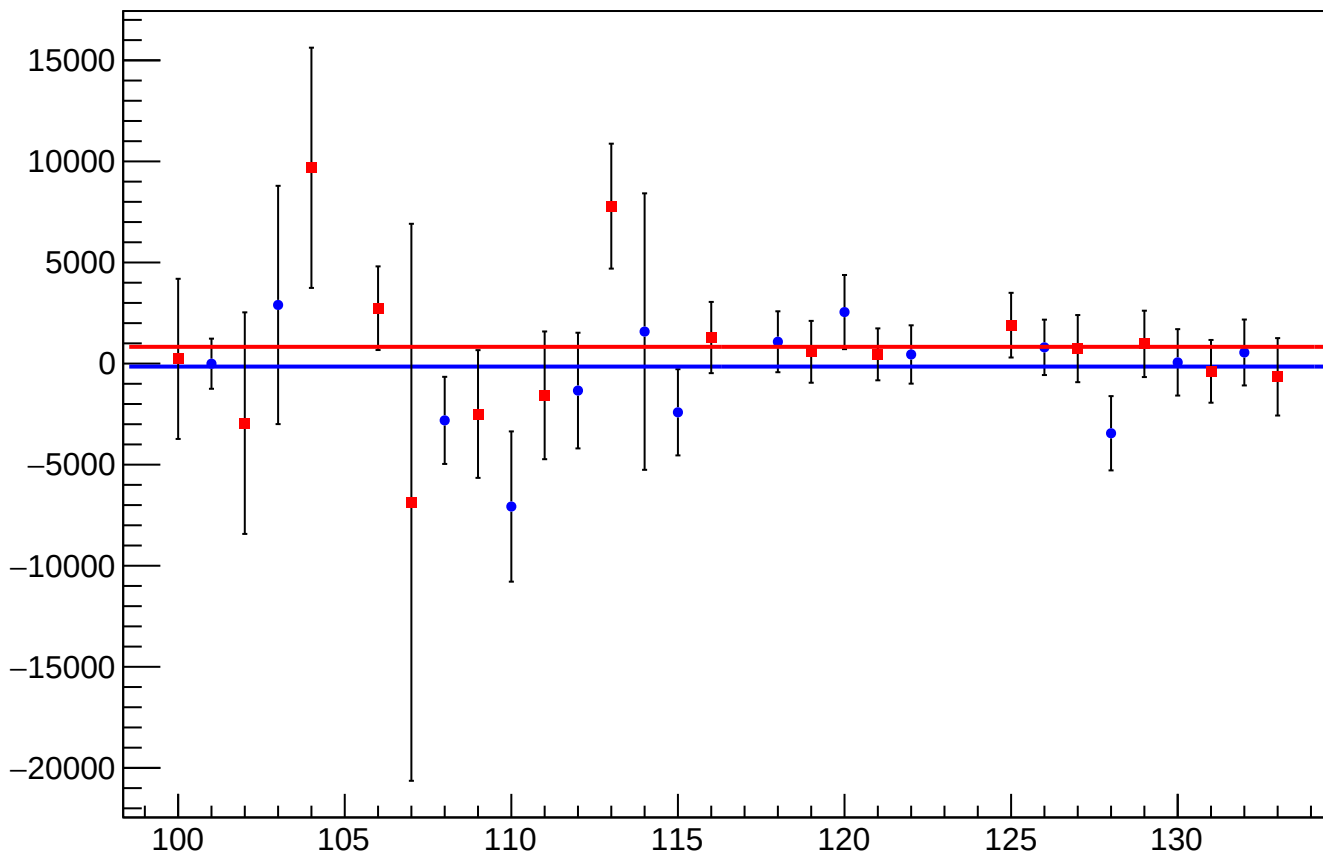
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2674.873 $\pm$ 0.541  $\chi^2$ /NDF: 611417.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_dit\_correction\_mean vs Slug



Right In:  $-148.957 \pm 492.413$   $\chi^2/\text{NDF}$ : 13.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $827.852 \pm 510.468$   $\chi^2/\text{NDF}$ : 12.5/15

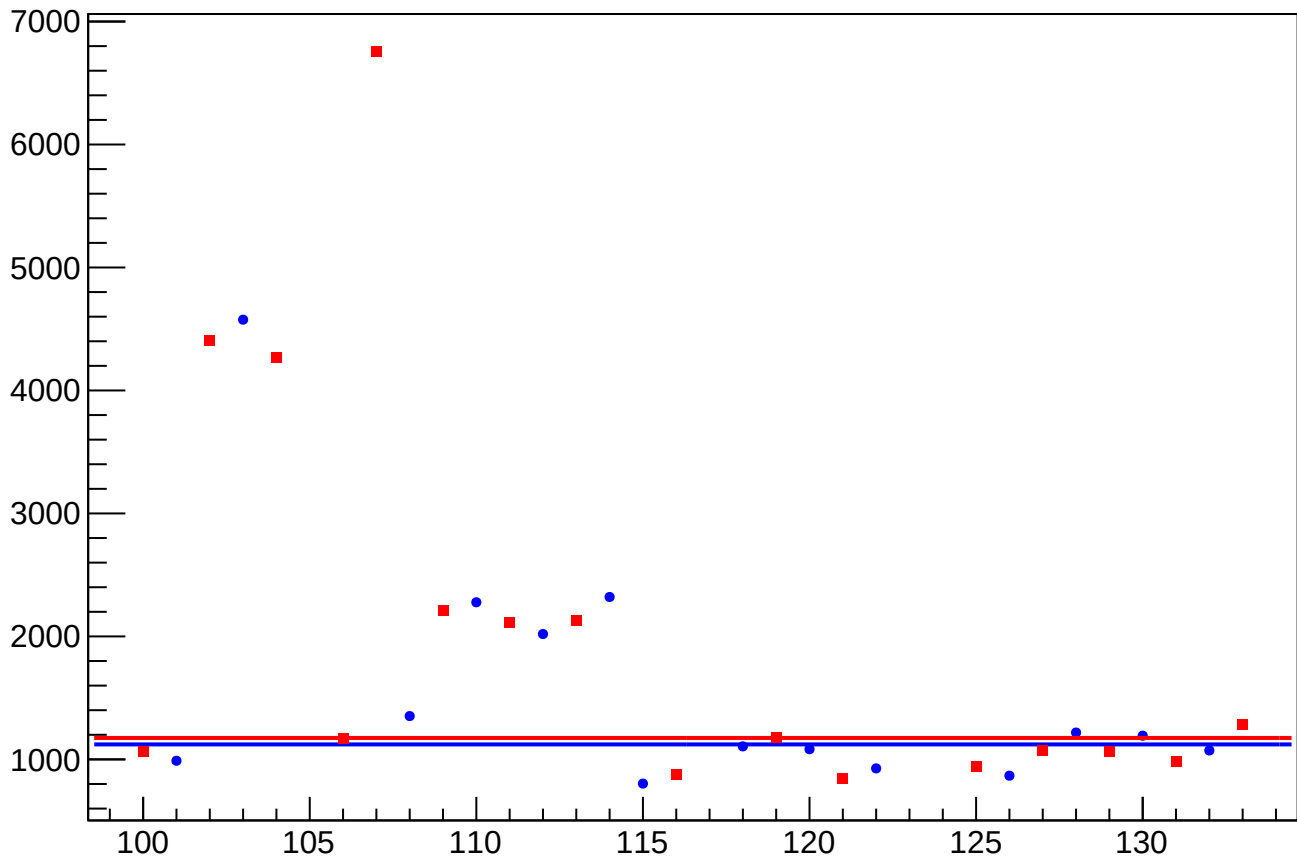
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $321.868 \pm 354.399$   $\chi^2/\text{NDF}$ : 27.9/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_dit\_correction\_rms vs Slug



Right In: 1121.807 $\pm$ 0.348  $\chi^2$ /NDF: 1346868.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1174.434 $\pm$ 0.361  $\chi^2$ /NDF: 2427903.9/15

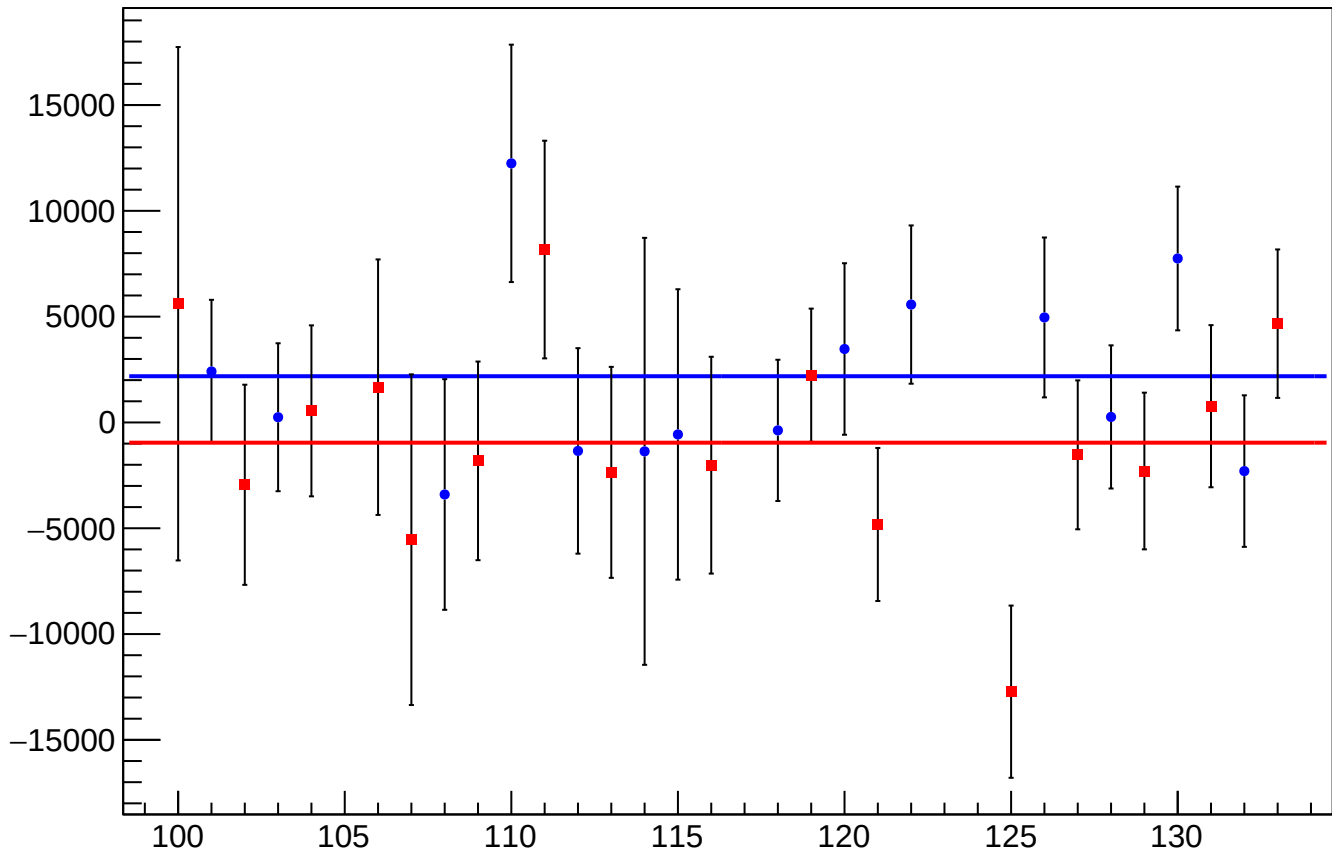
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1147.173 $\pm$ 0.251  $\chi^2$ /NDF: 3785783.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atl1\_mean vs Slug



Right In: 2184.145 $\pm$ 1083.142  $\chi^2$ /NDF: 12.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -956.022 $\pm$ 1078.879  $\chi^2$ /NDF: 17.9/15

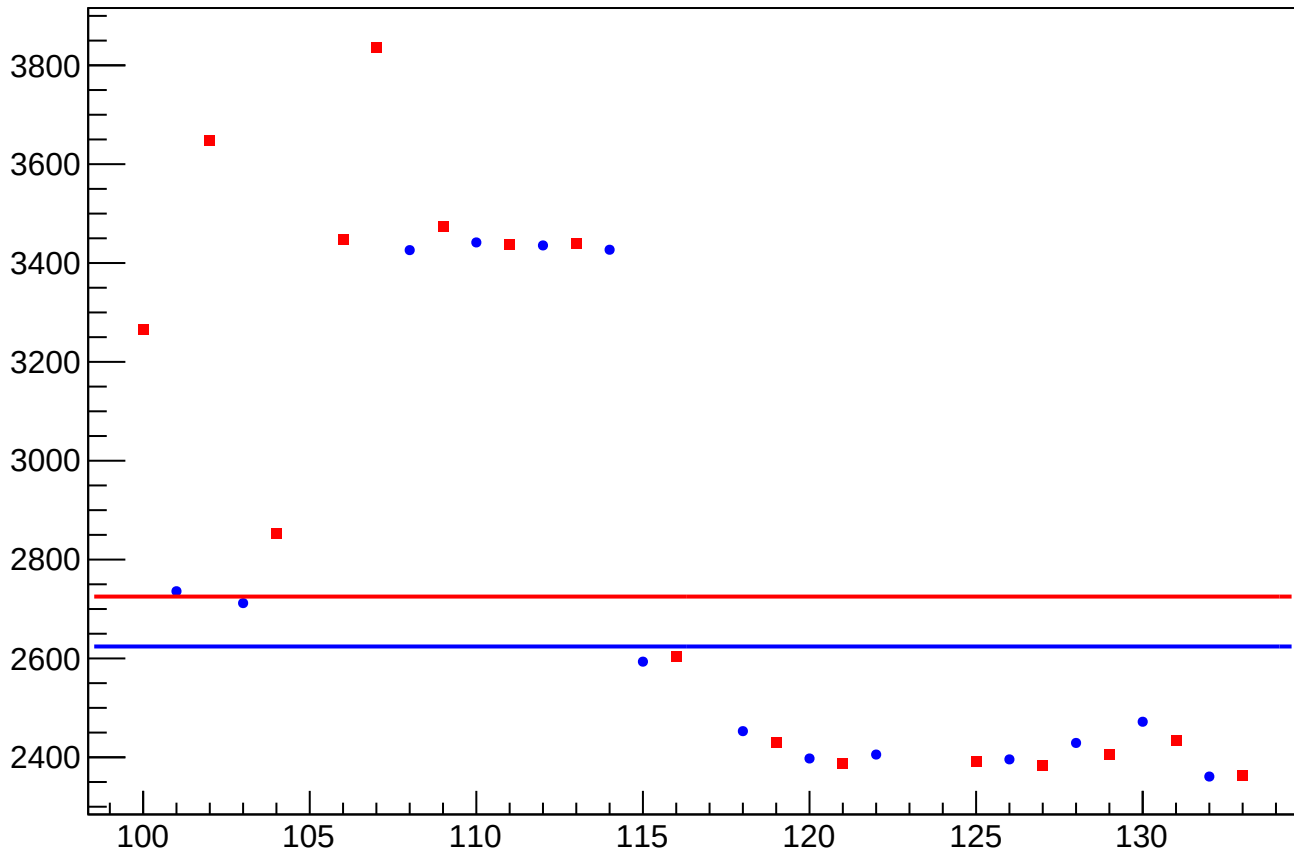
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 607.869 $\pm$ 764.386  $\chi^2$ /NDF: 34.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atl1\_rms vs Slug



Right In: 2624.180+/-0.766  $\chi^2/\text{NDF}$ : 204920.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2725.167+/-0.763  $\chi^2/\text{NDF}$ : 397769.8/15

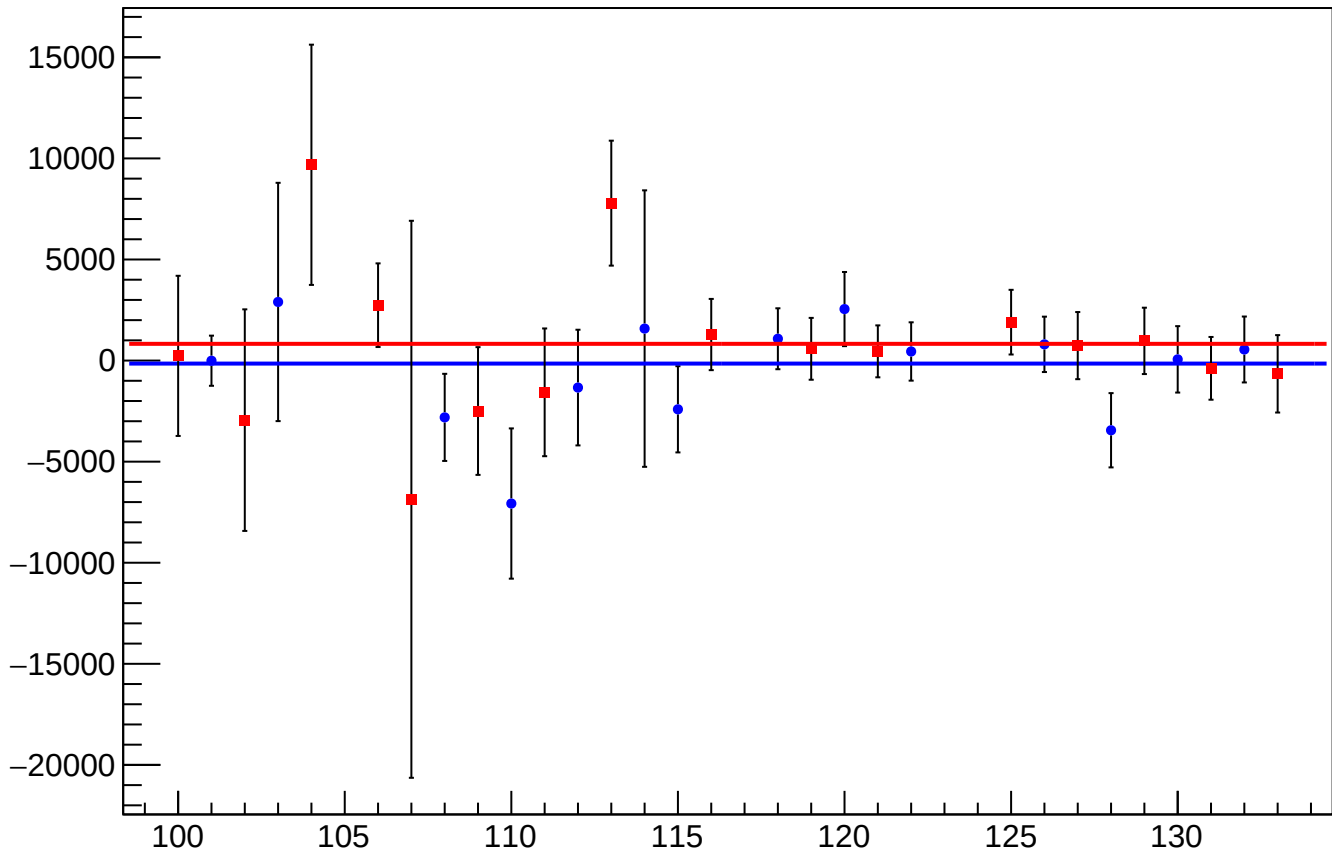
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2674.872+/-0.541  $\chi^2/\text{NDF}$ : 611417.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_dit\_correction\_mean vs Slug



Right In: -148.958+/-492.412  $\chi^2$ /NDF: 13.5/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 827.851+/-510.467  $\chi^2$ /NDF: 12.5/15

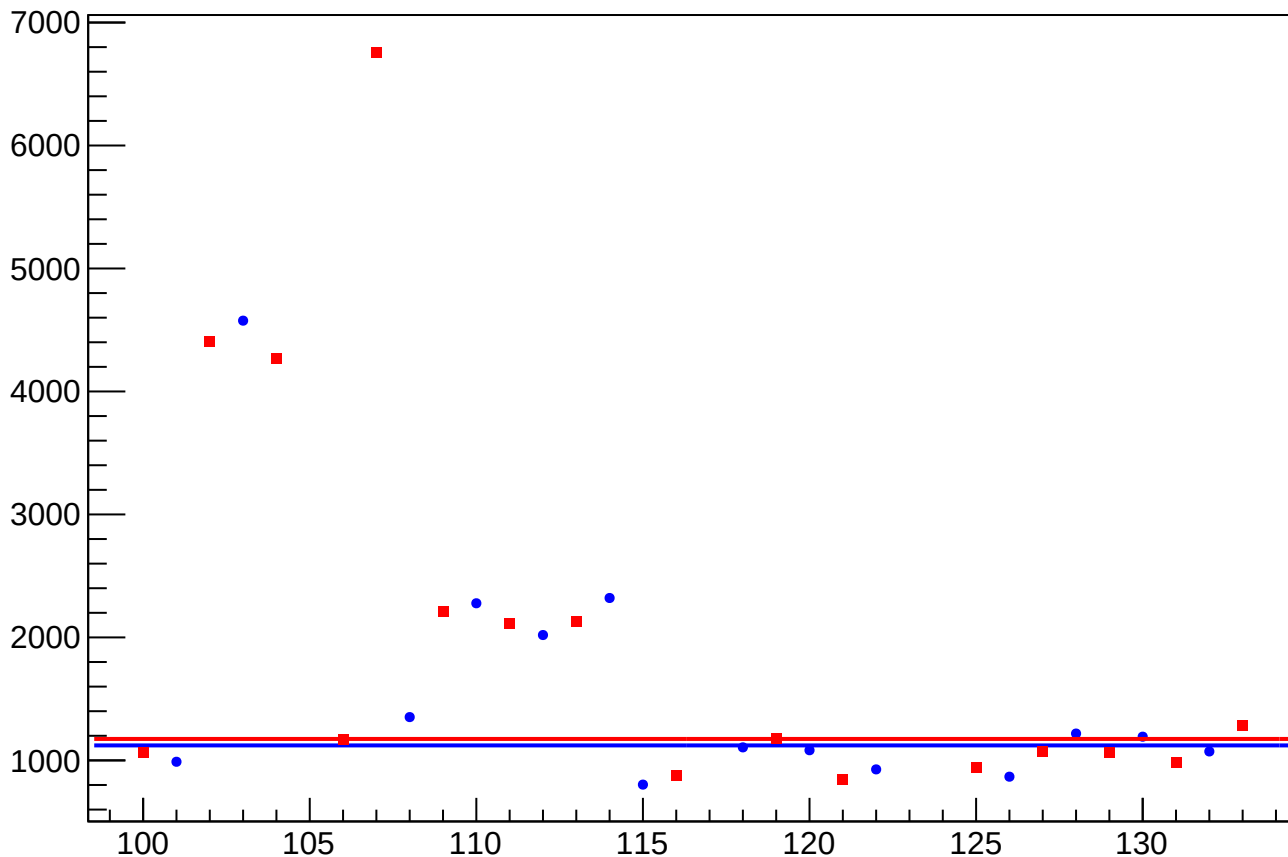
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 321.866+/-354.399  $\chi^2$ /NDF: 27.9/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_eigen\_dit\_correction\_rms vs Slug



Right In: 1121.806 $\pm$ 0.348  $\chi^2$ /NDF: 1346869.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1174.432 $\pm$ 0.361  $\chi^2$ /NDF: 2427906.2/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

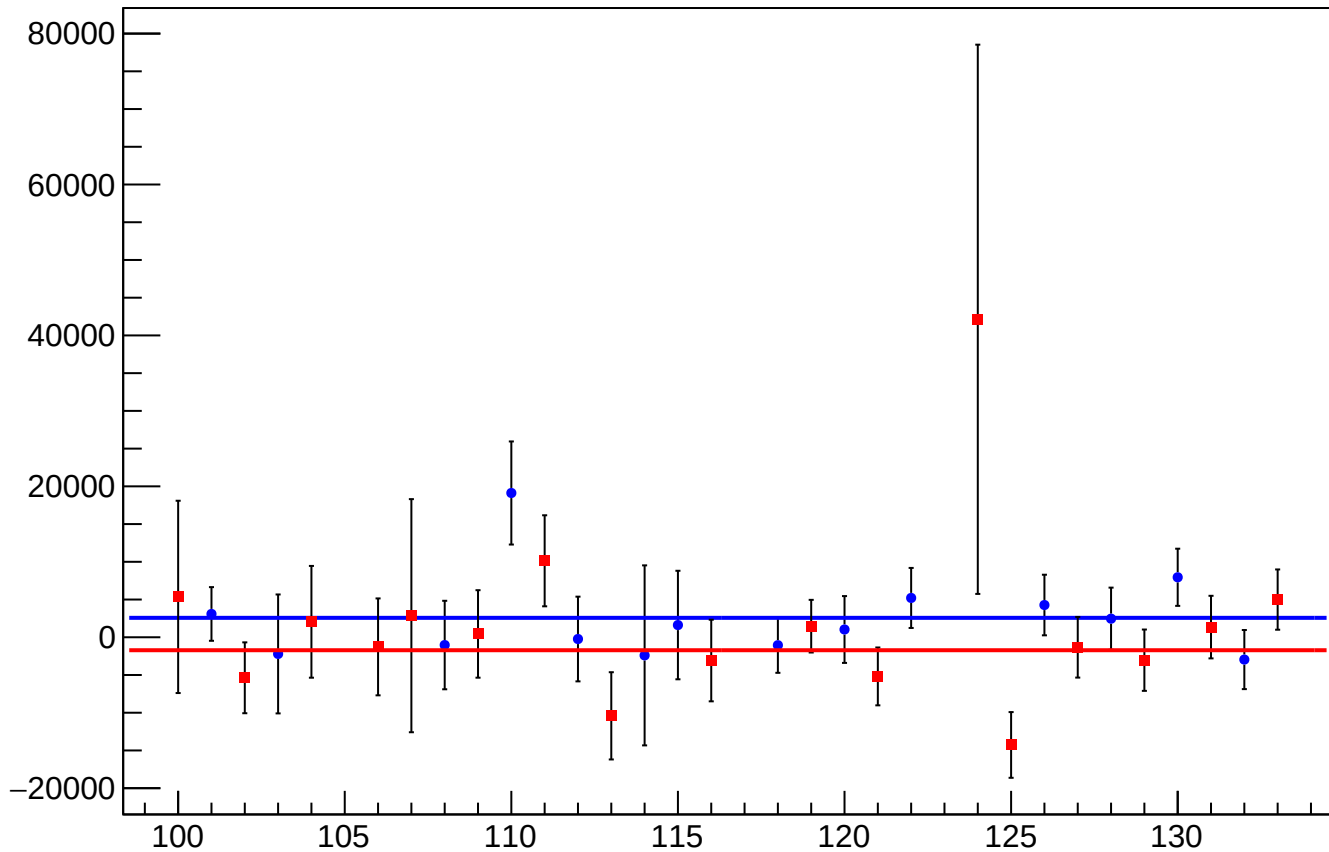
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1147.172 $\pm$ 0.251  $\chi^2$ /NDF: 3785786.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_atl1\_mean vs Slug



Right In: 2575.404+/-1241.708  $\chi^2/\text{NDF}$ : 12.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1717.605+/-1224.730  $\chi^2/\text{NDF}$ : 22.5/16

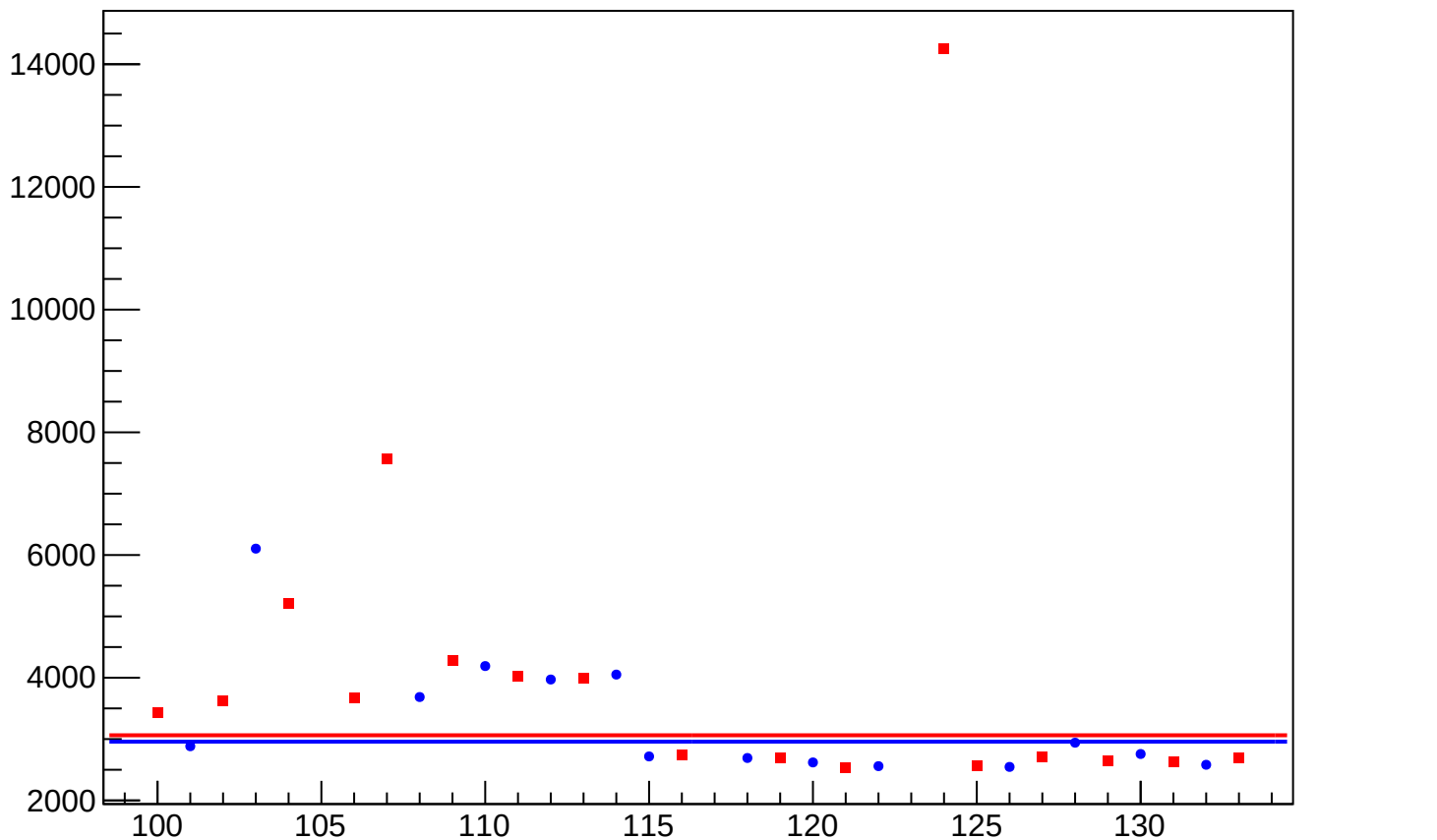
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 399.350+/-871.955  $\chi^2/\text{NDF}$ : 41.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_rms vs Slug



Right In: 2958.104+/-0.878  $\chi^2/\text{NDF}$ : 587279.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3062.113+/-0.866  $\chi^2/\text{NDF}$ : 936411.5/16

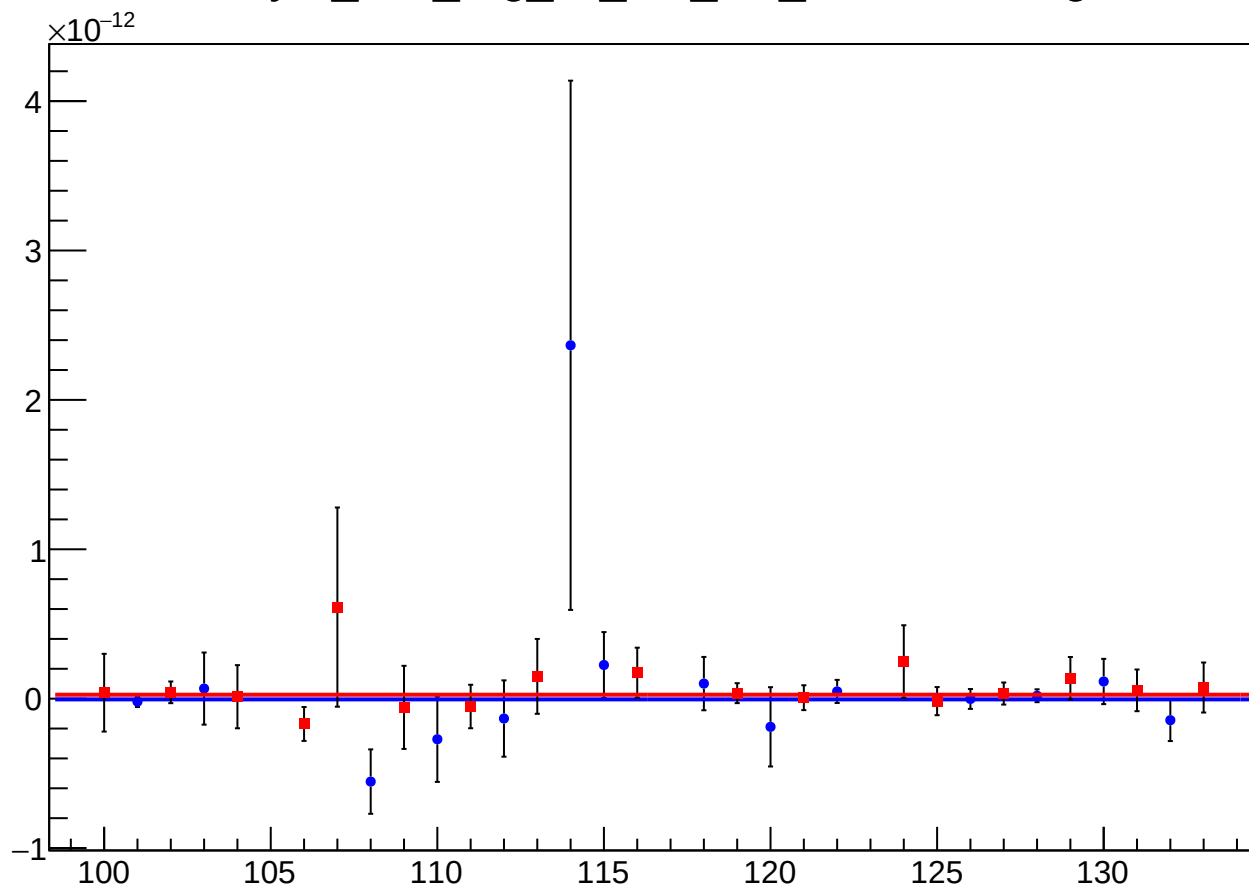
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3010.824+/-0.617  $\chi^2/\text{NDF}$ : 1530803.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_reg\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 14.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 7.1/16

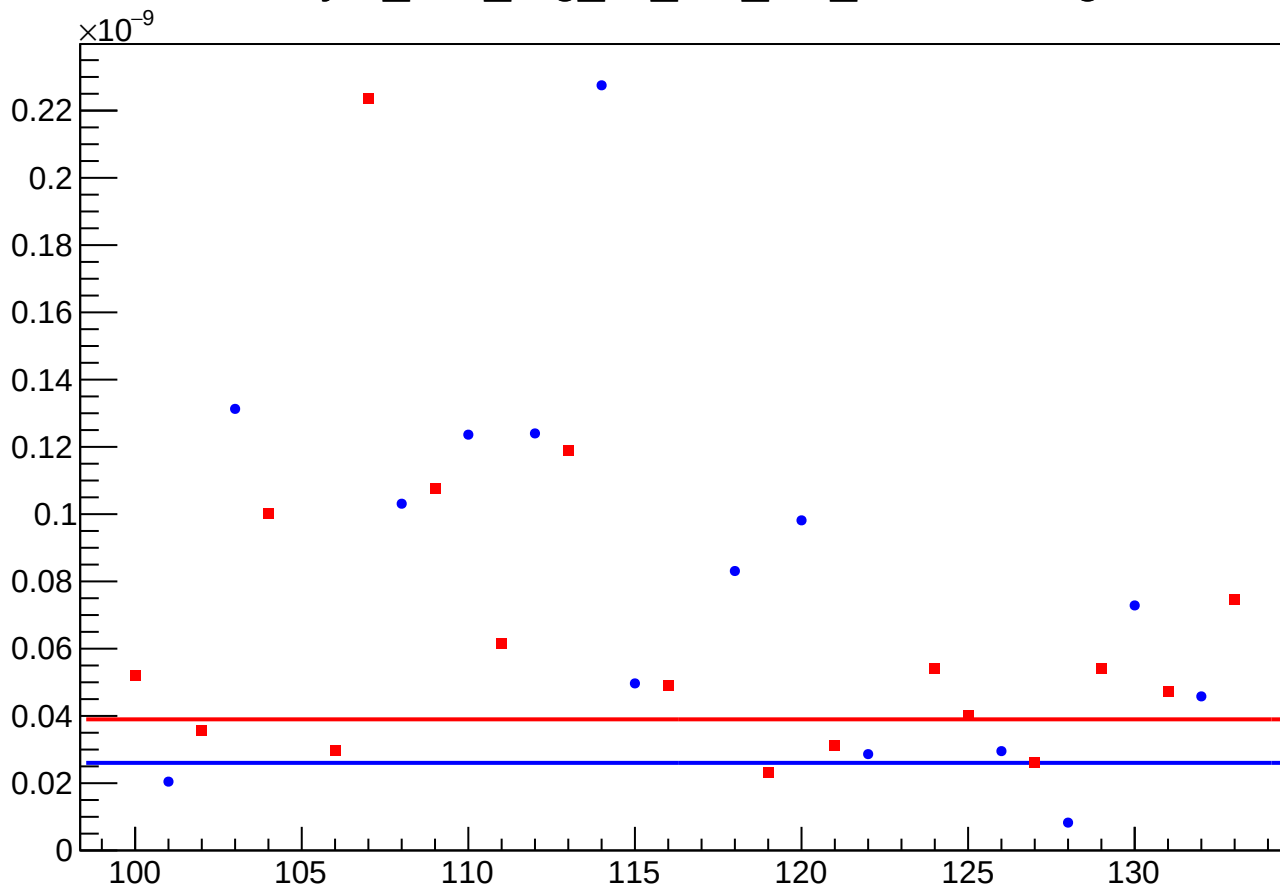
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 21.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 2190567.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 1044194.6/16

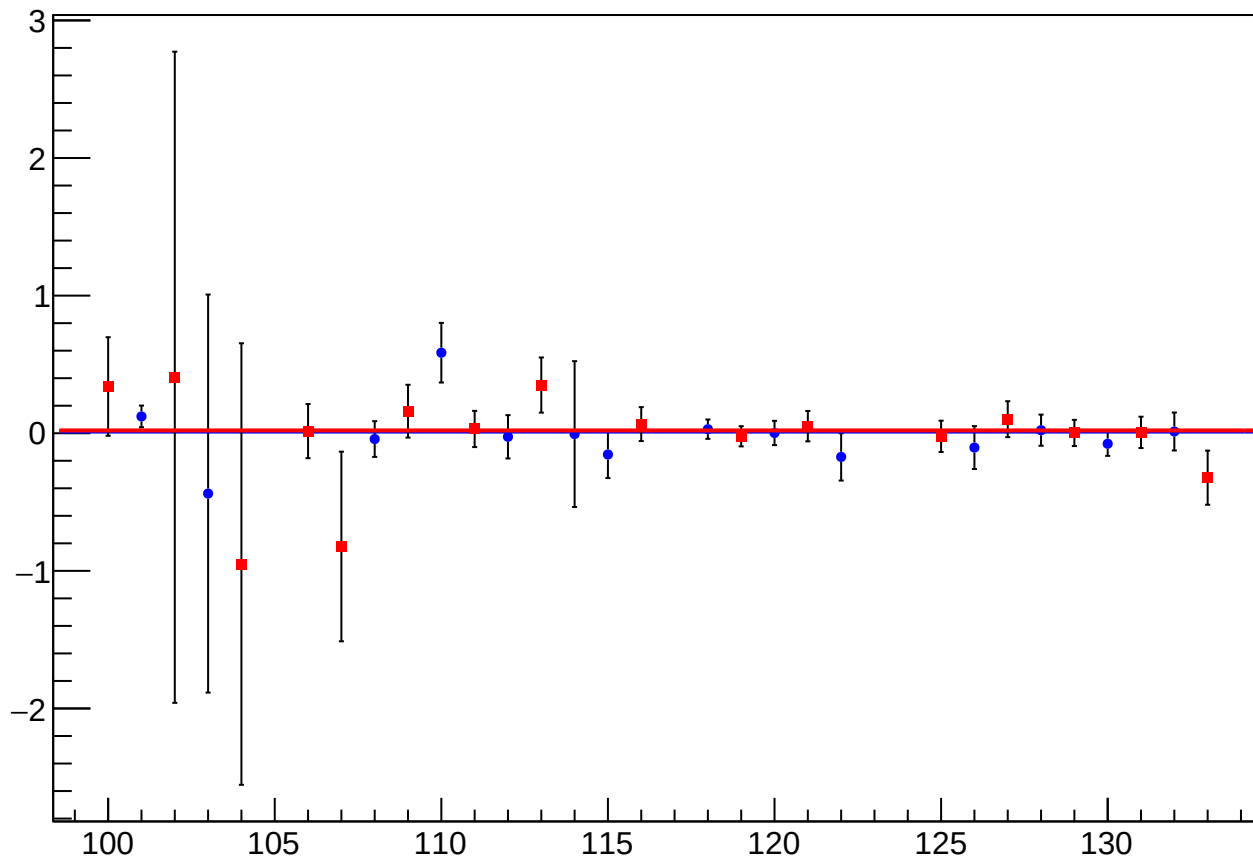
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 3486595.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.012 $\pm$ 0.032  $\chi^2$ /NDF: 13.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.021 $\pm$ 0.035  $\chi^2$ /NDF: 10.1/15

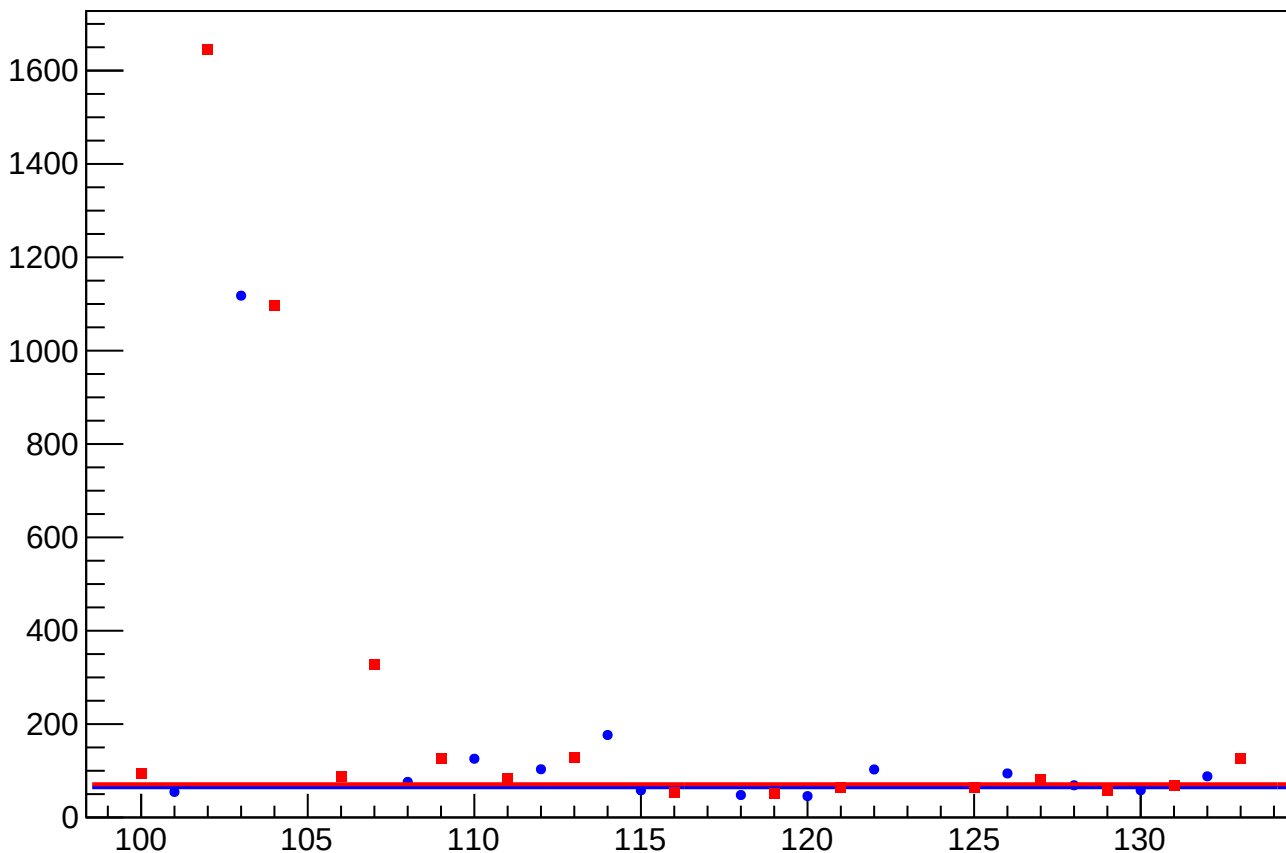
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.023  $\chi^2$ /NDF: 23.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 64.746+/-0.023  $\chi^2/\text{NDF}$ : 1925103.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.153+/-0.025  $\chi^2/\text{NDF}$ : 2753130.7/15

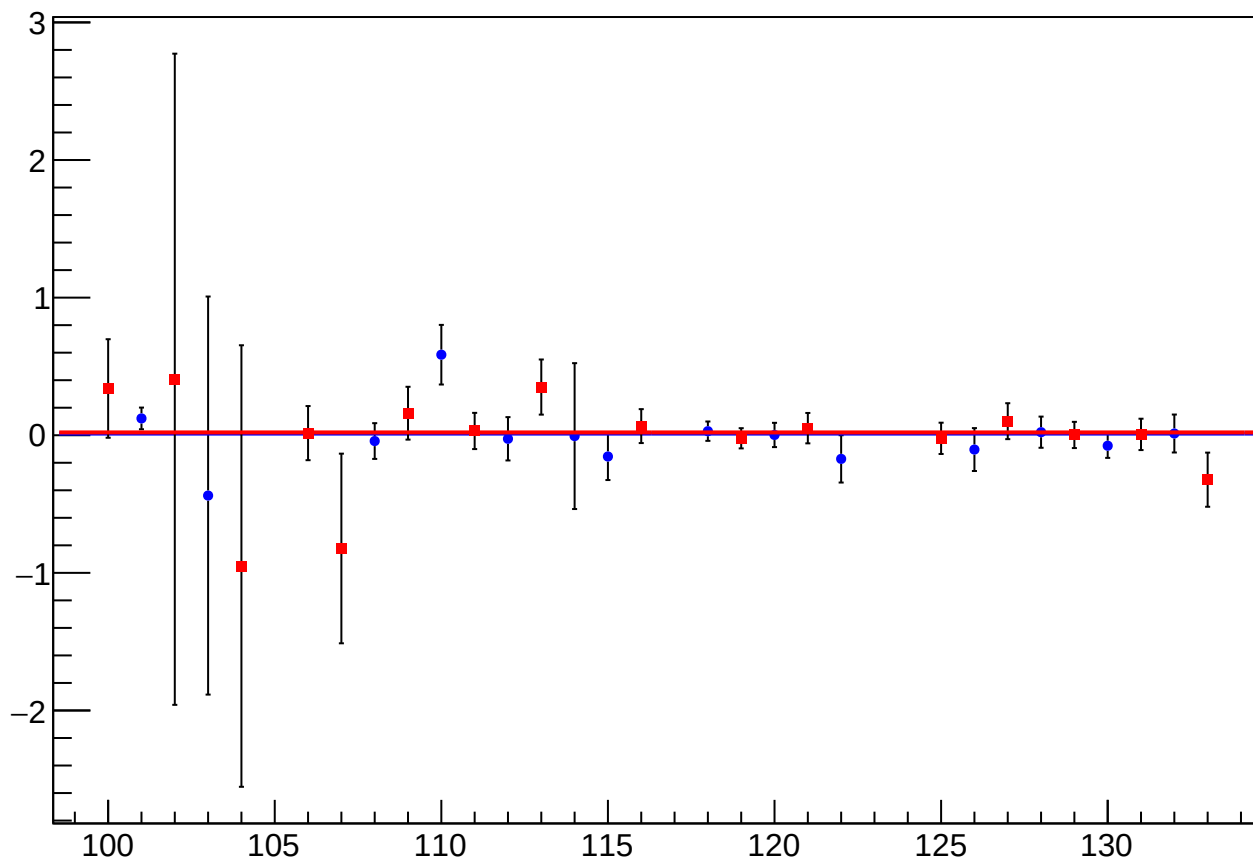
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.673+/-0.017  $\chi^2/\text{NDF}$ : 4715181.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.012 $\pm$ 0.032  $\chi^2$ /NDF: 13.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.021 $\pm$ 0.035  $\chi^2$ /NDF: 10.1/15

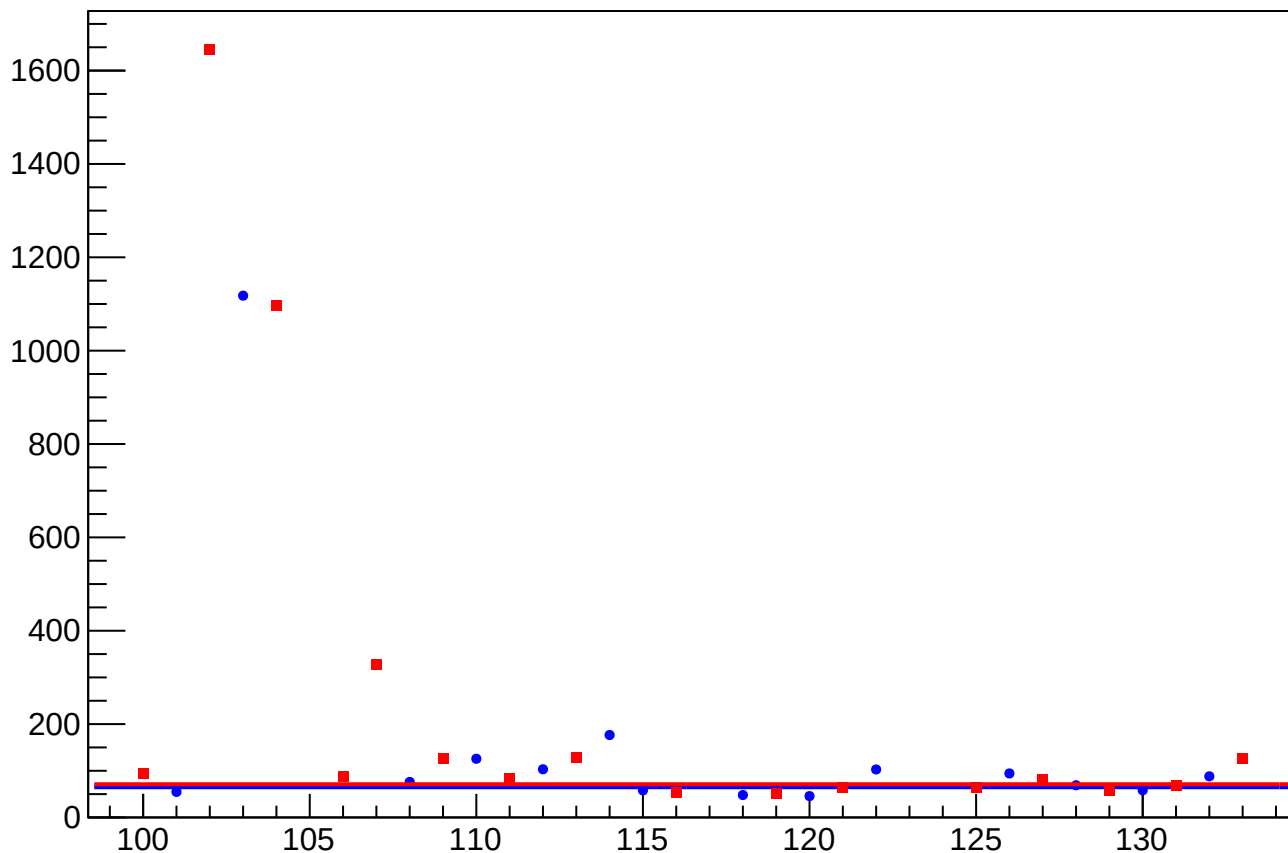
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.023  $\chi^2$ /NDF: 23.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 64.746+/-0.023  $\chi^2/\text{NDF}$ : 1925103.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.153+/-0.025  $\chi^2/\text{NDF}$ : 2753130.7/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

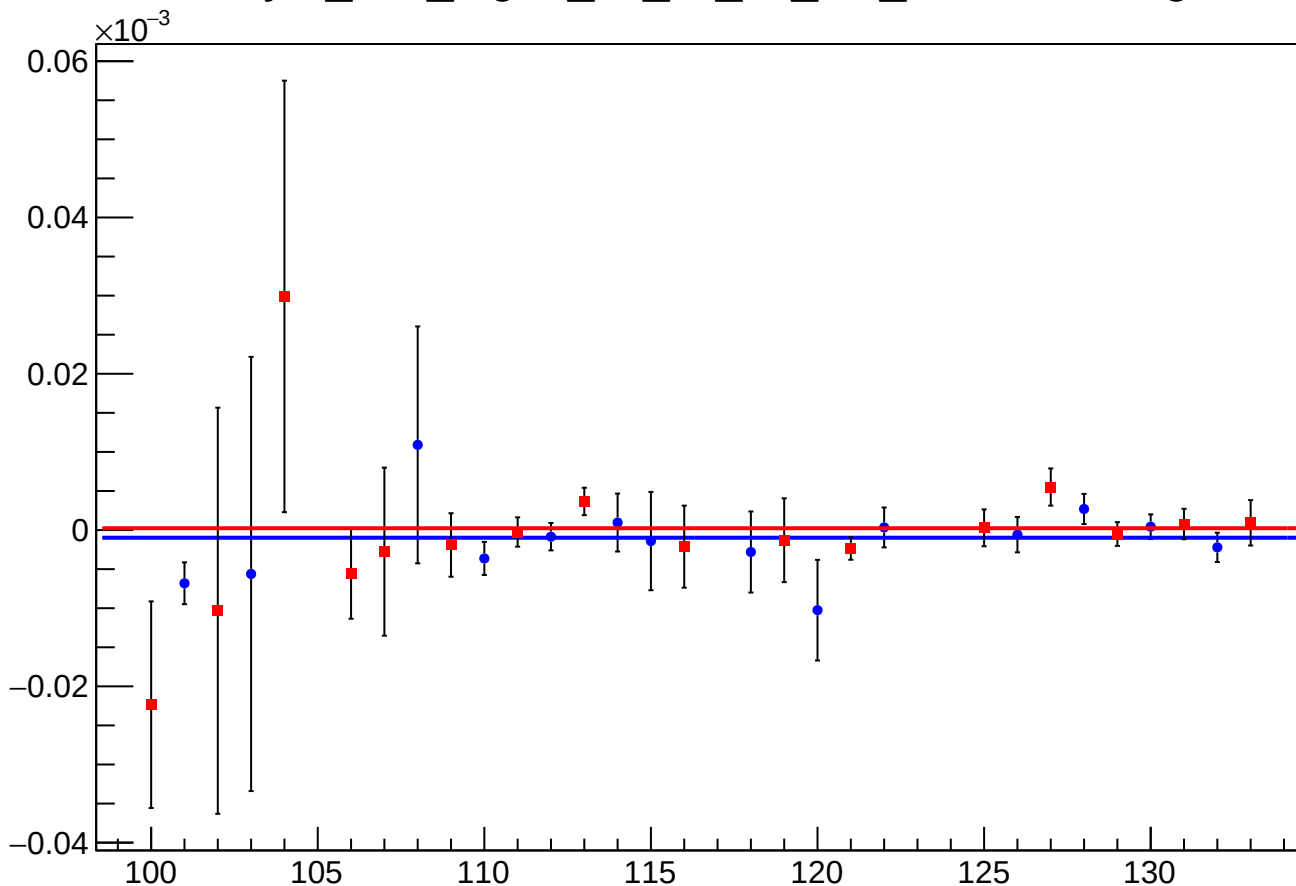
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.673+/-0.017  $\chi^2/\text{NDF}$ : 4715181.6/29

- 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  $\chi^2/\text{NDF}$ : 14.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.3/15

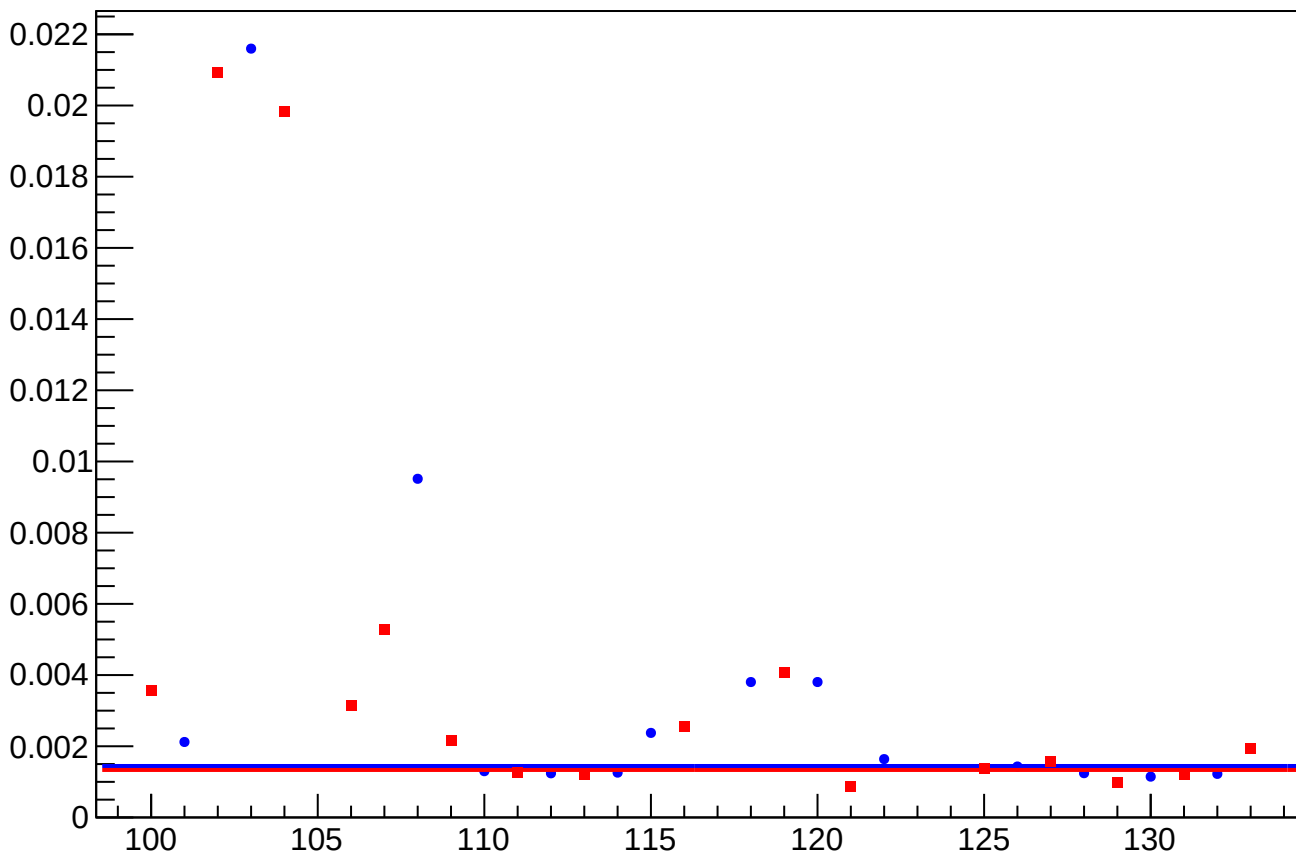
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 34.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2647685.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3704175.8/15

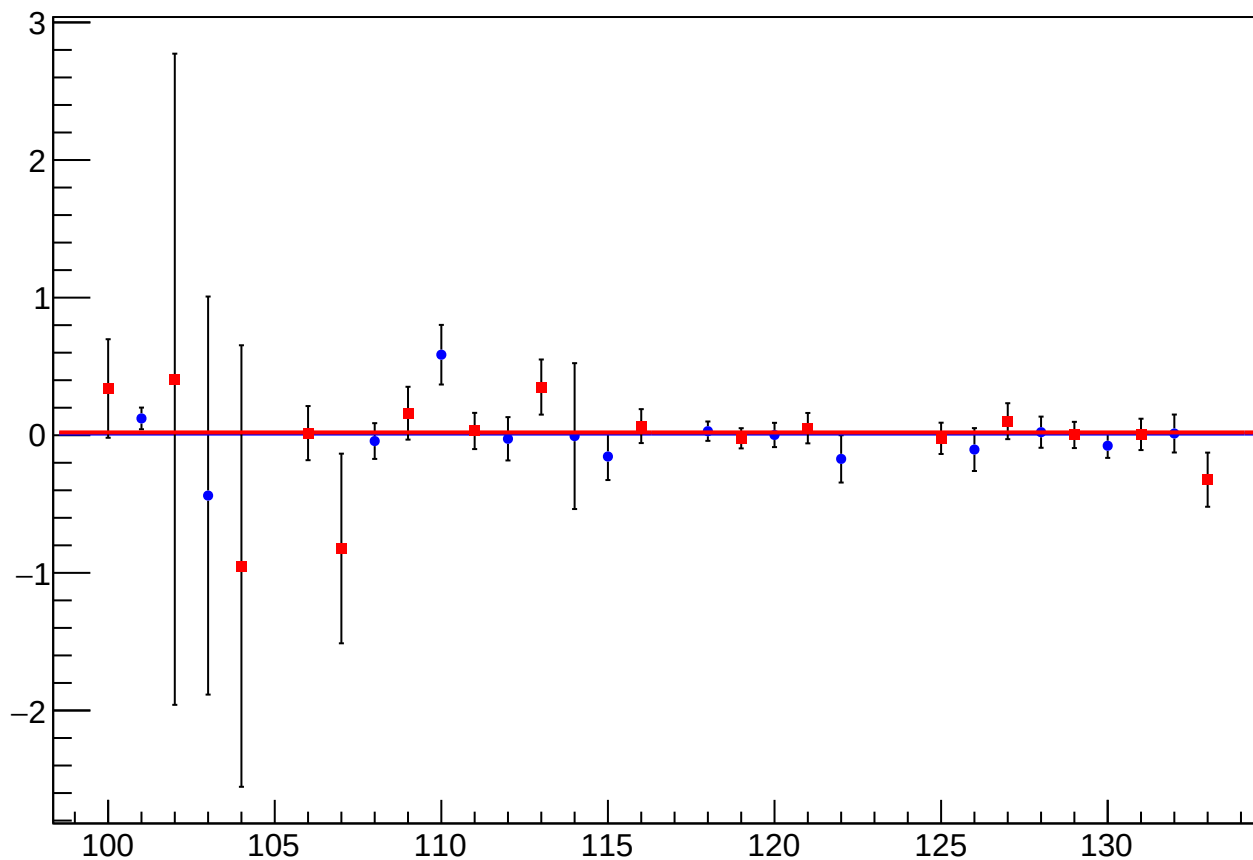
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 6380331.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.012 $\pm$ 0.032  $\chi^2$ /NDF: 13.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.021 $\pm$ 0.035  $\chi^2$ /NDF: 10.1/15

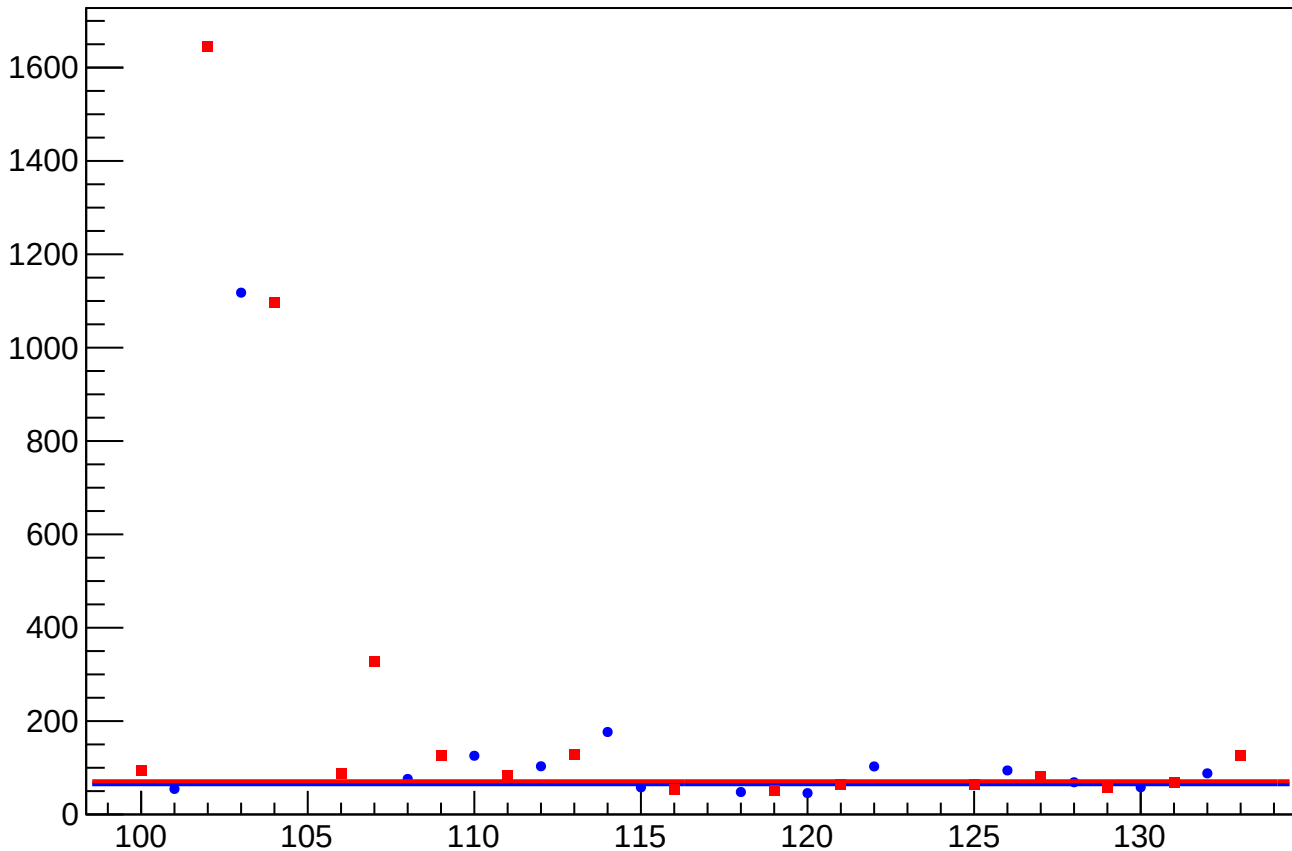
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.023  $\chi^2$ /NDF: 23.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 64.745+/-0.023  $\chi^2/\text{NDF}$ : 1925174.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.153+/-0.025  $\chi^2/\text{NDF}$ : 2753144.6/15

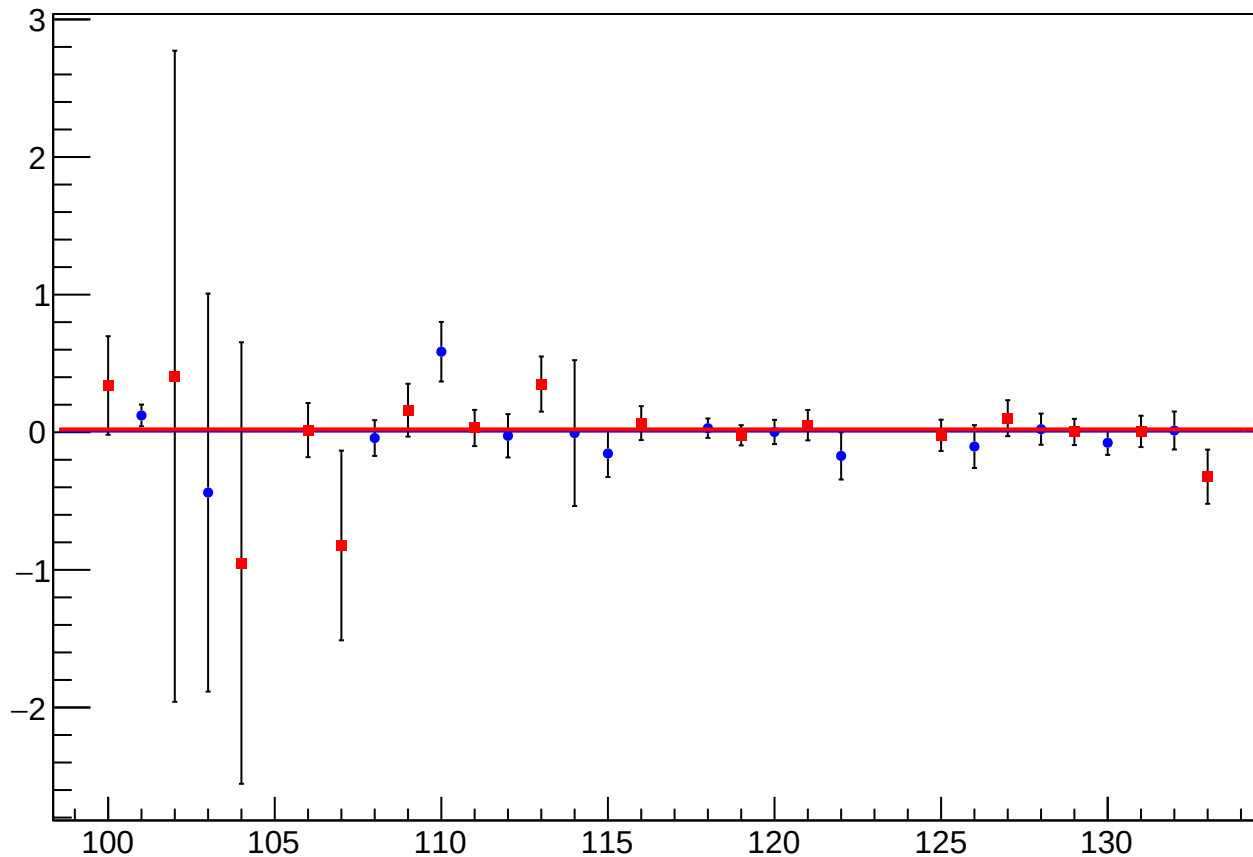
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.673+/-0.017  $\chi^2/\text{NDF}$ : 4715271.7/29

- 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: 0.012 $\pm$ 0.032  $\chi^2$ /NDF: 13.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.021 $\pm$ 0.035  $\chi^2$ /NDF: 10.1/15

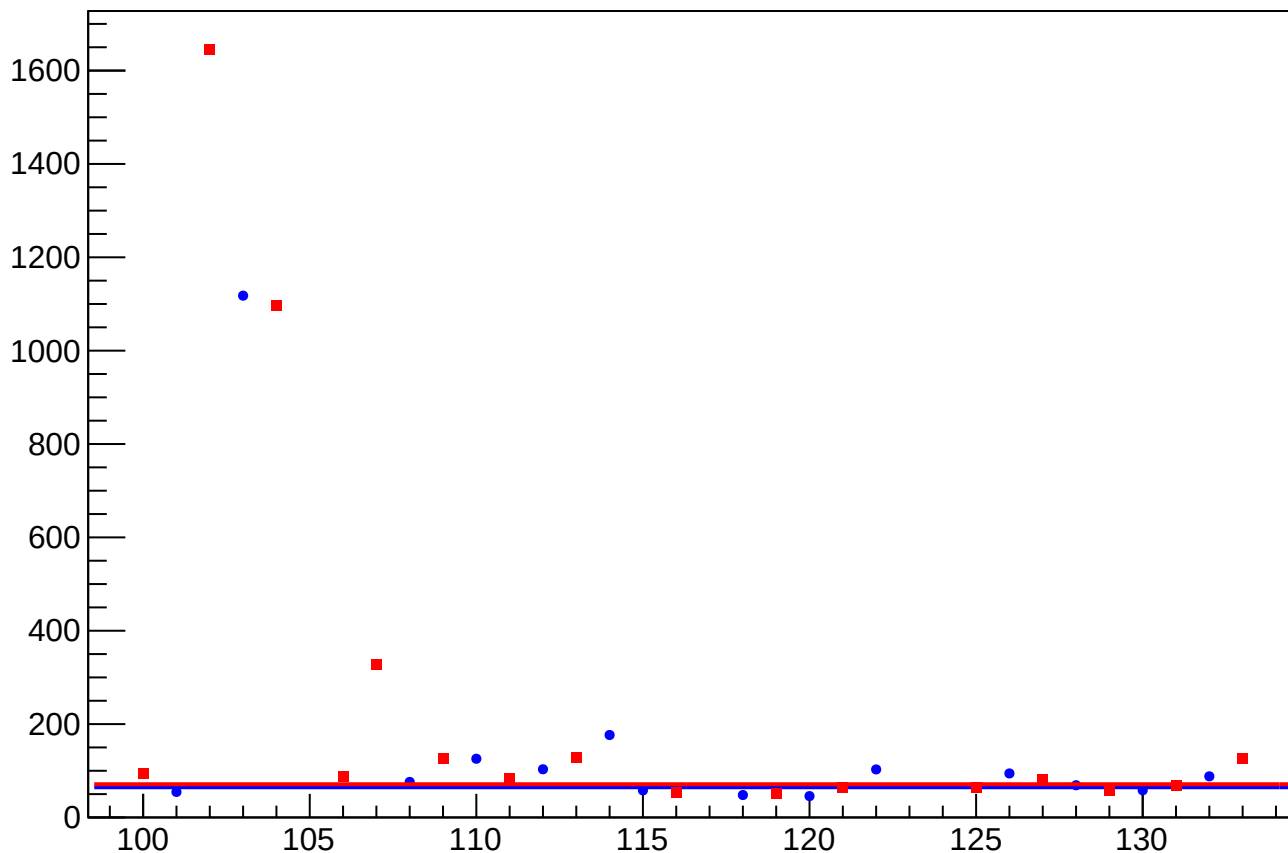
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.023  $\chi^2$ /NDF: 23.2/29

- 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: 64.745+/-0.023  $\chi^2/\text{NDF}$ : 1925174.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.153+/-0.025  $\chi^2/\text{NDF}$ : 2753144.6/15

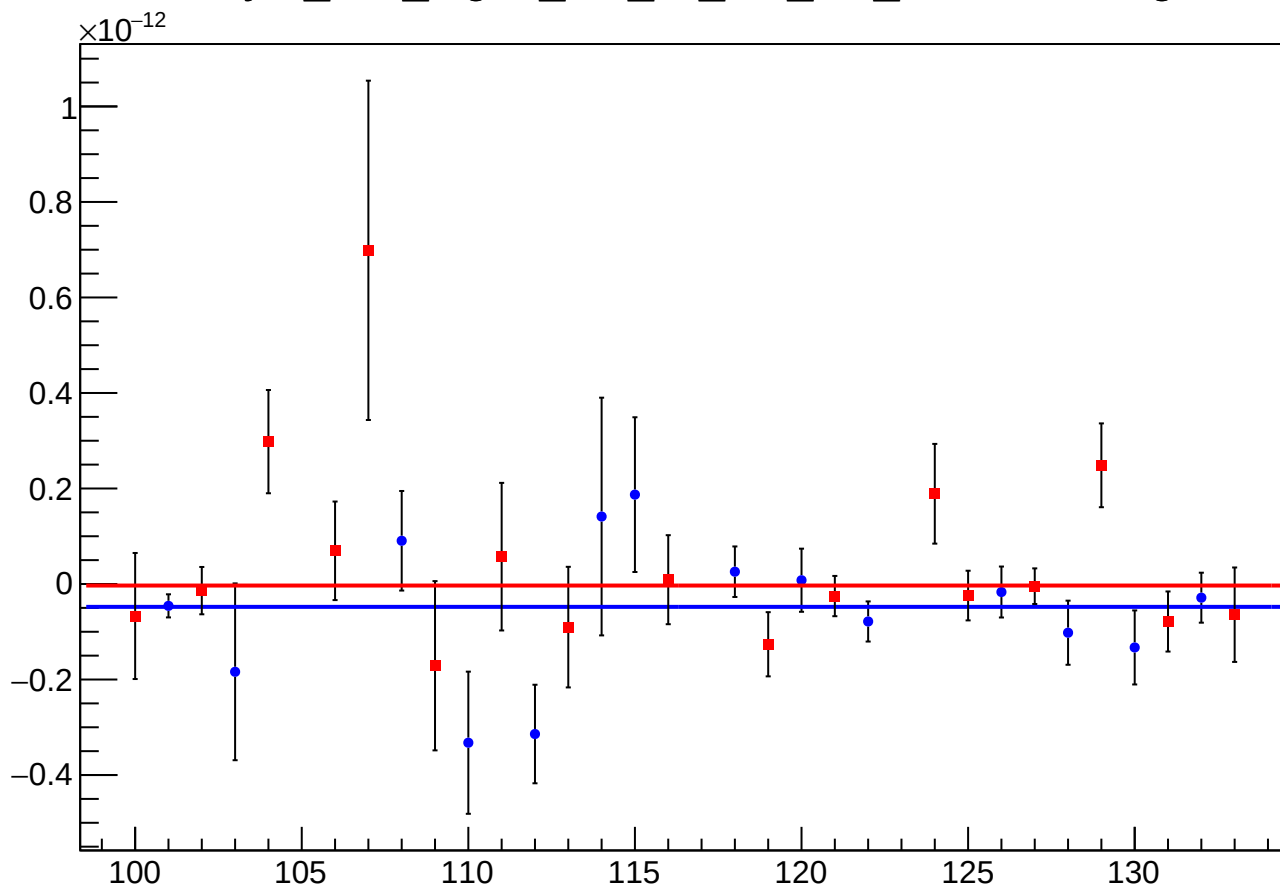
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.673+/-0.017  $\chi^2/\text{NDF}$ : 4715271.7/29

- 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  $\chi^2/\text{NDF}$ : 20.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 31.2/16

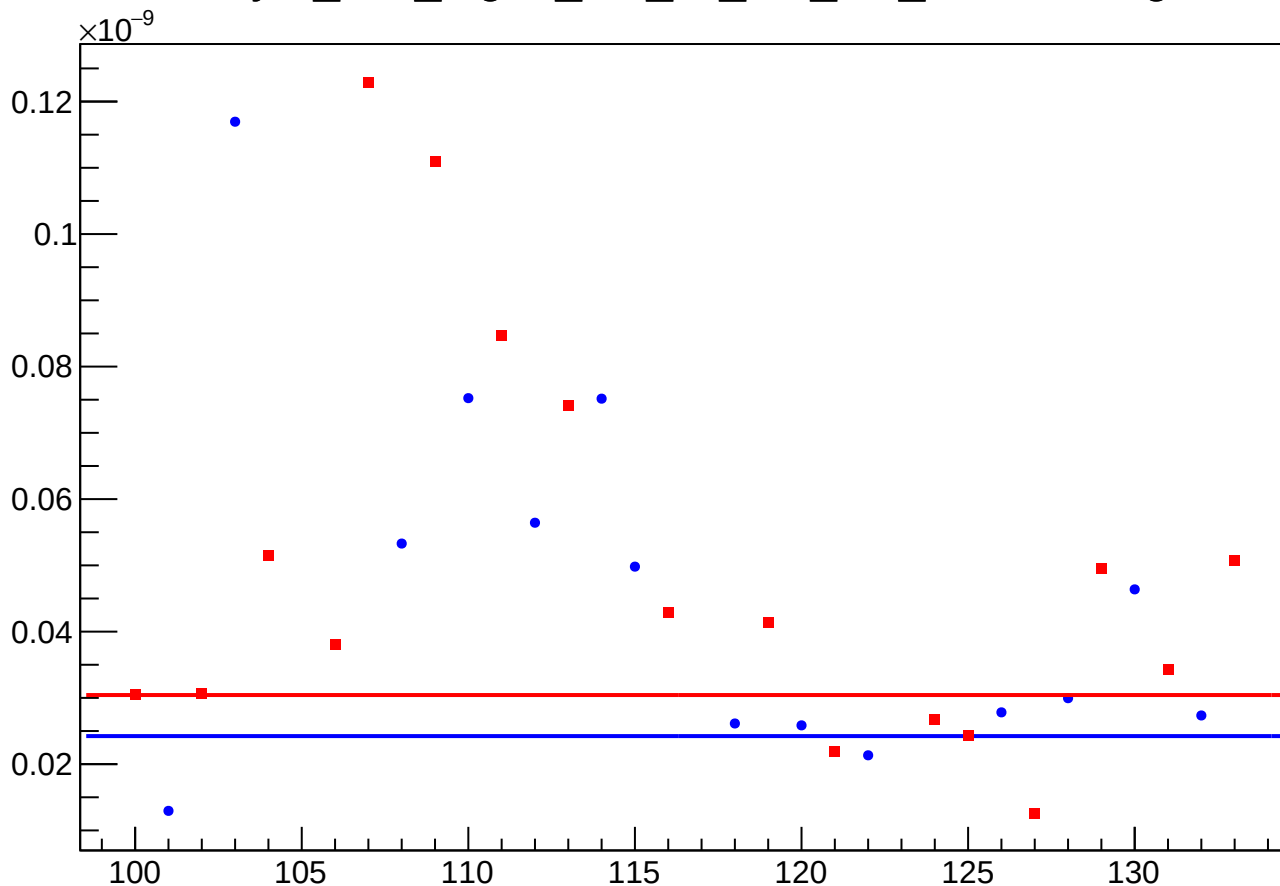
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 55.8/30

- 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 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 1862229.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 1967754.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

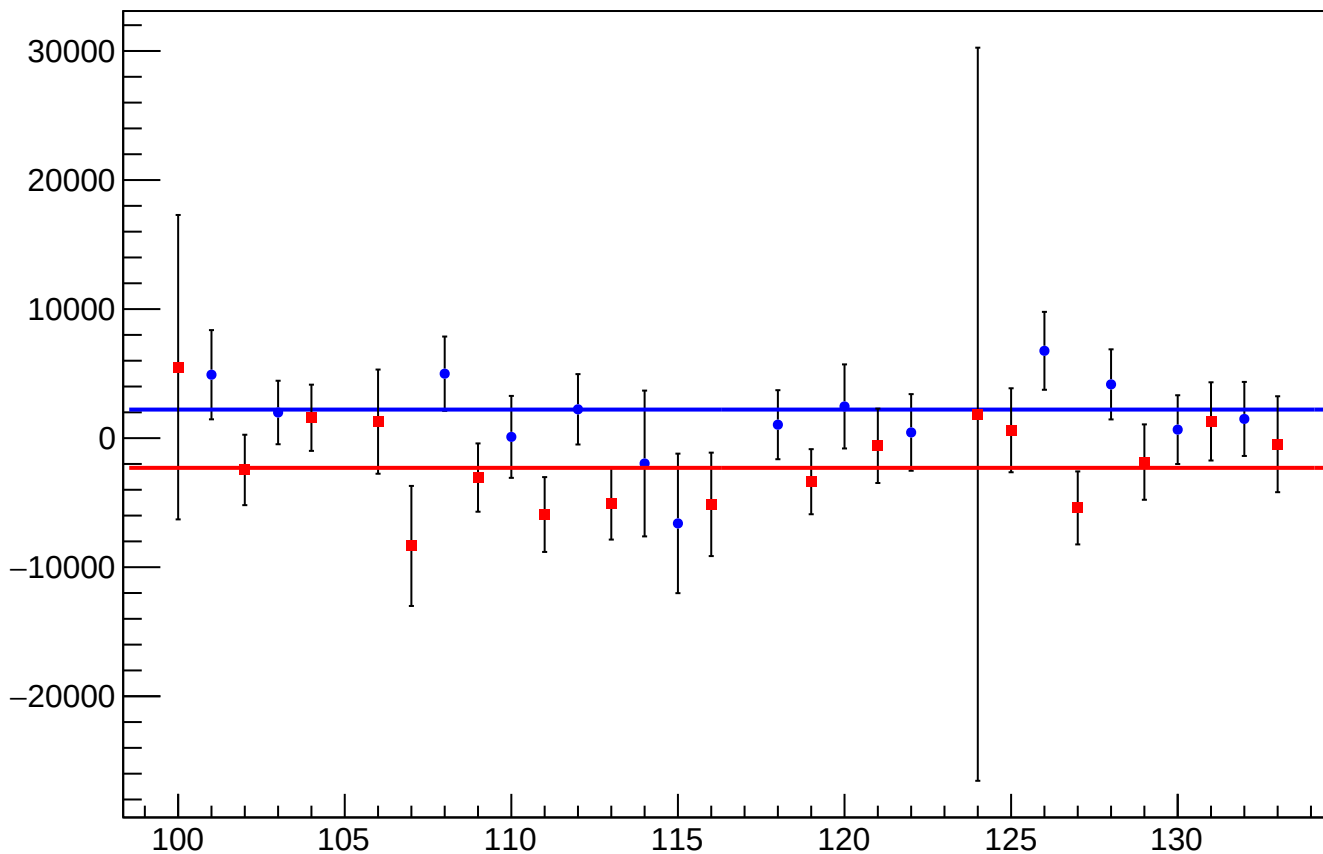
+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 3974327.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl2\_mean vs Slug



Right In: 2213.618 $\pm$ 810.041  $\chi^2$ /NDF: 9.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2302.332 $\pm$ 778.342  $\chi^2$ /NDF: 12.6/16

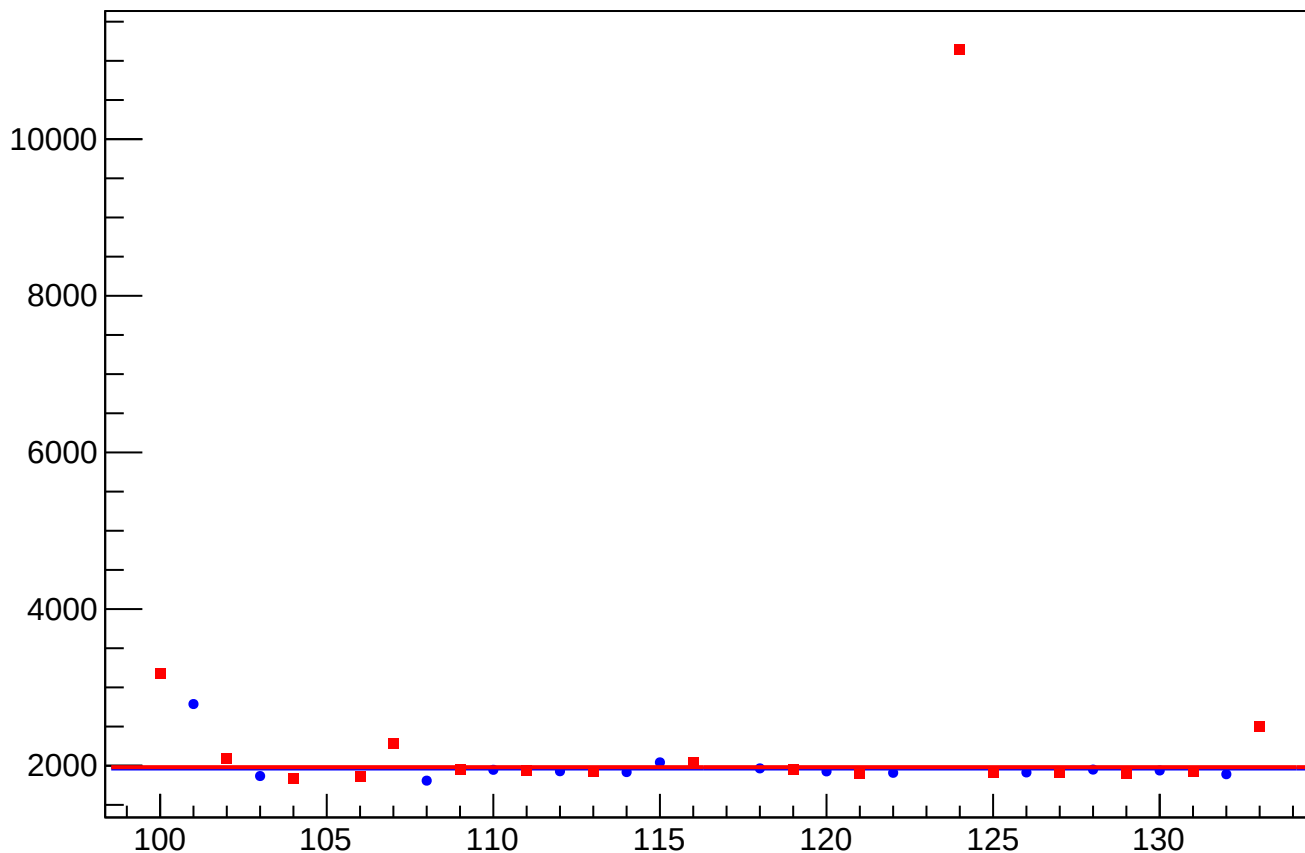
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -134.446 $\pm$ 561.243  $\chi^2$ /NDF: 37.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl2\_rms vs Slug



Right In: 1964.379+/-0.573  $\chi^2/\text{NDF}$ : 126157.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1981.508+/-0.550  $\chi^2/\text{NDF}$ : 296038.7/16

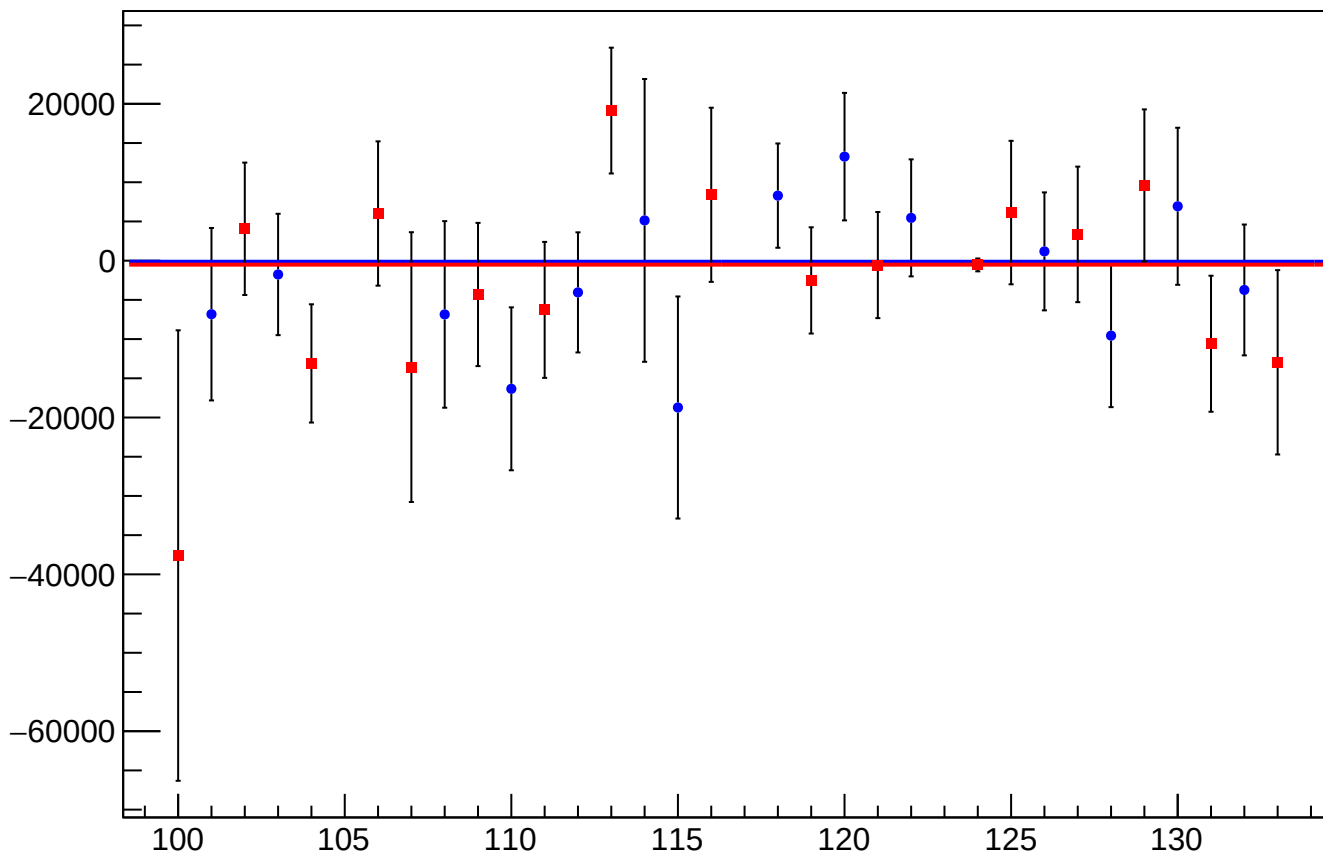
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1973.285+/-0.397  $\chi^2/\text{NDF}$ : 422660.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_reg\_correction\_mean vs Slug



Right In: -138.130 $\pm$ 2382.294  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -505.602 $\pm$ 770.501  $\chi^2$ /NDF: 17.5/16

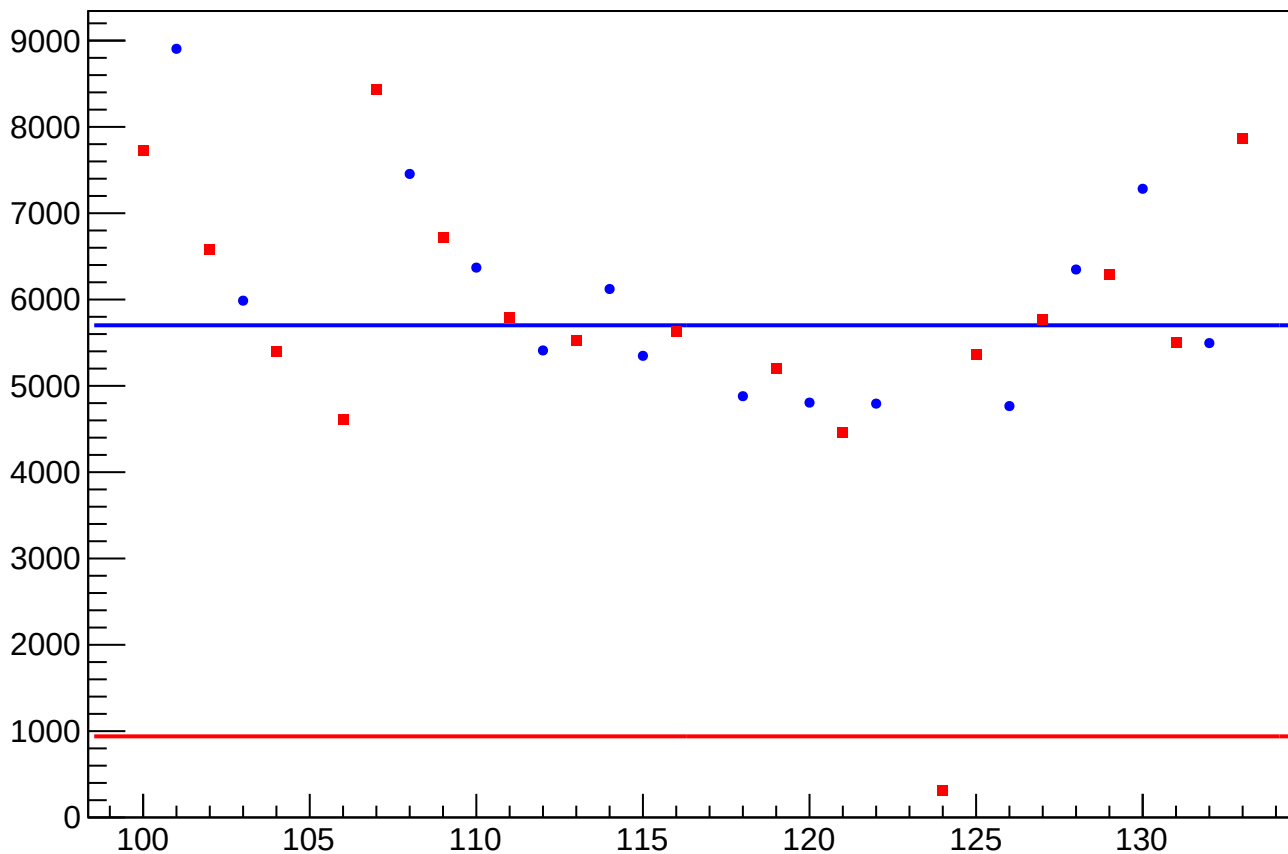
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -470.803 $\pm$ 733.110  $\chi^2$ /NDF: 29.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_reg\_correction\_rms vs Slug



Right In: 5701.633+/-1.685  $\chi^2/\text{NDF}$ : 405920.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 939.587+/-0.545  $\chi^2/\text{NDF}$ : 10294096.9/16

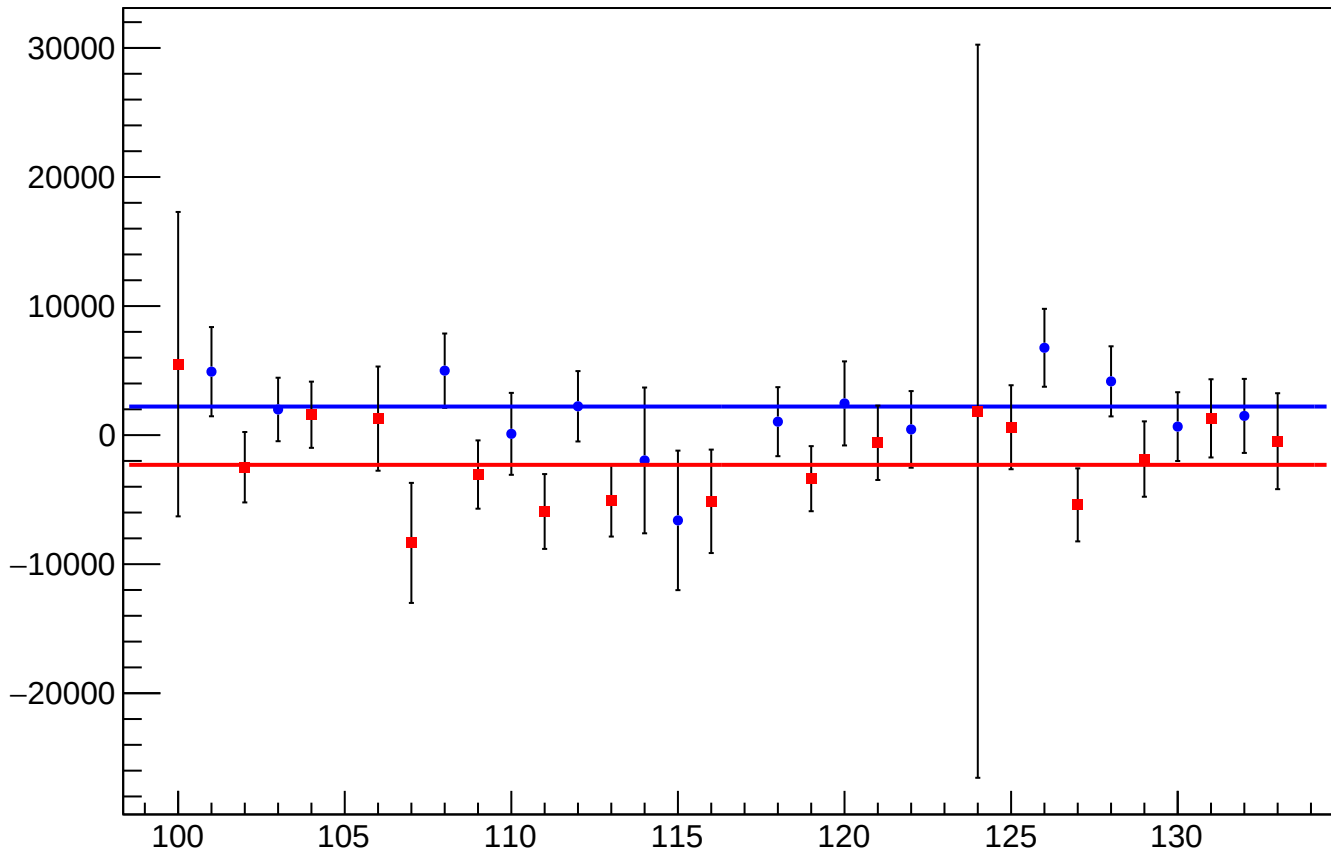
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1390.551+/-0.518  $\chi^2/\text{NDF}$ : 17934694.2/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl2\_mean vs Slug



Right In: 2213.841 $\pm$ 810.041  $\chi^2$ /NDF: 9.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2304.183 $\pm$ 778.350  $\chi^2$ /NDF: 12.6/16

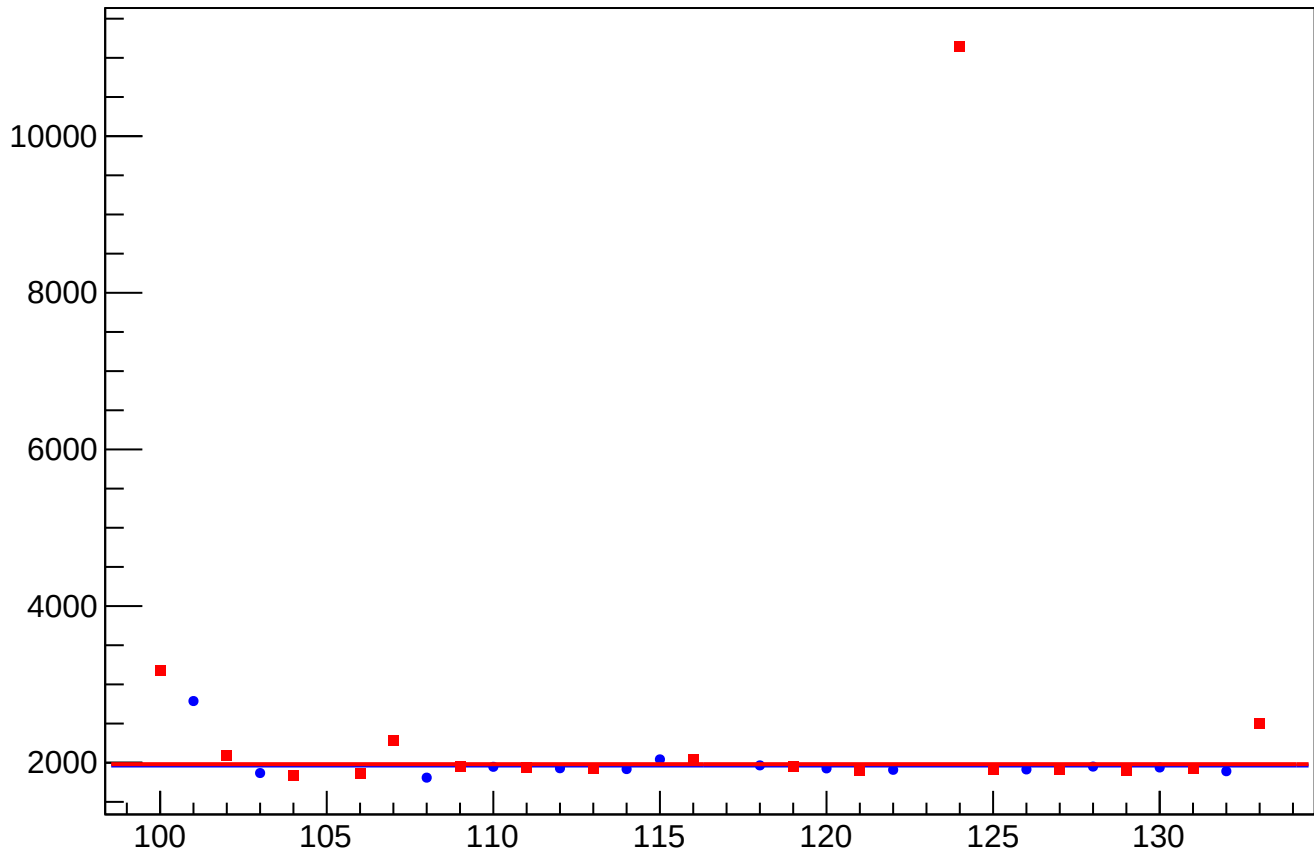
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -135.277 $\pm$ 561.246  $\chi^2$ /NDF: 37.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atl2\_rms vs Slug



Right In: 1964.379+/-0.573  $\chi^2/\text{NDF}$ : 126156.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1981.530+/-0.550  $\chi^2/\text{NDF}$ : 296056.2/16

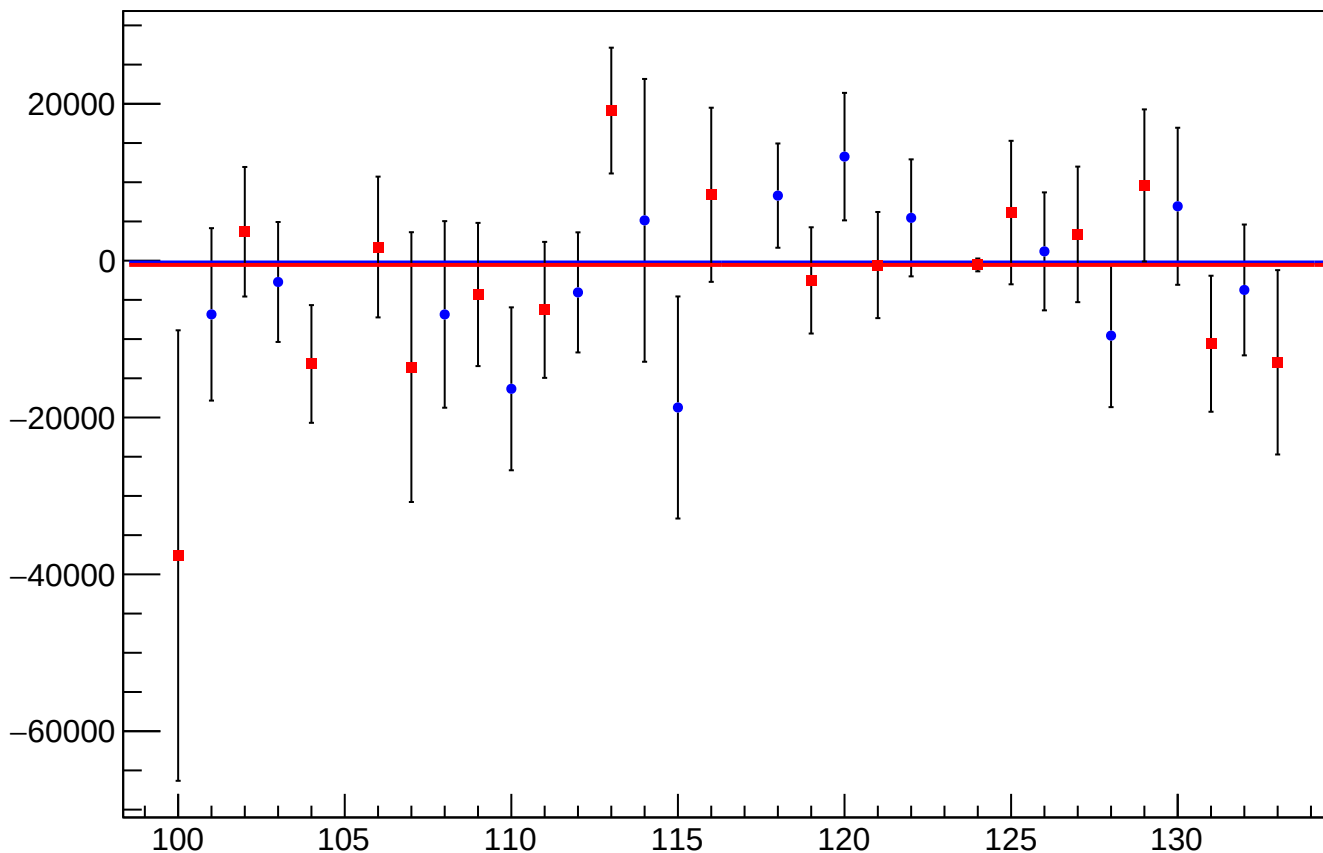
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1973.296+/-0.397  $\chi^2/\text{NDF}$ : 422679.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_cor\_correction\_mean vs Slug



Right In:  $-235.423 \pm 2379.607$   $\chi^2/\text{NDF}$ : 12.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-539.092 \pm 770.158$   $\chi^2/\text{NDF}$ : 17.0/16

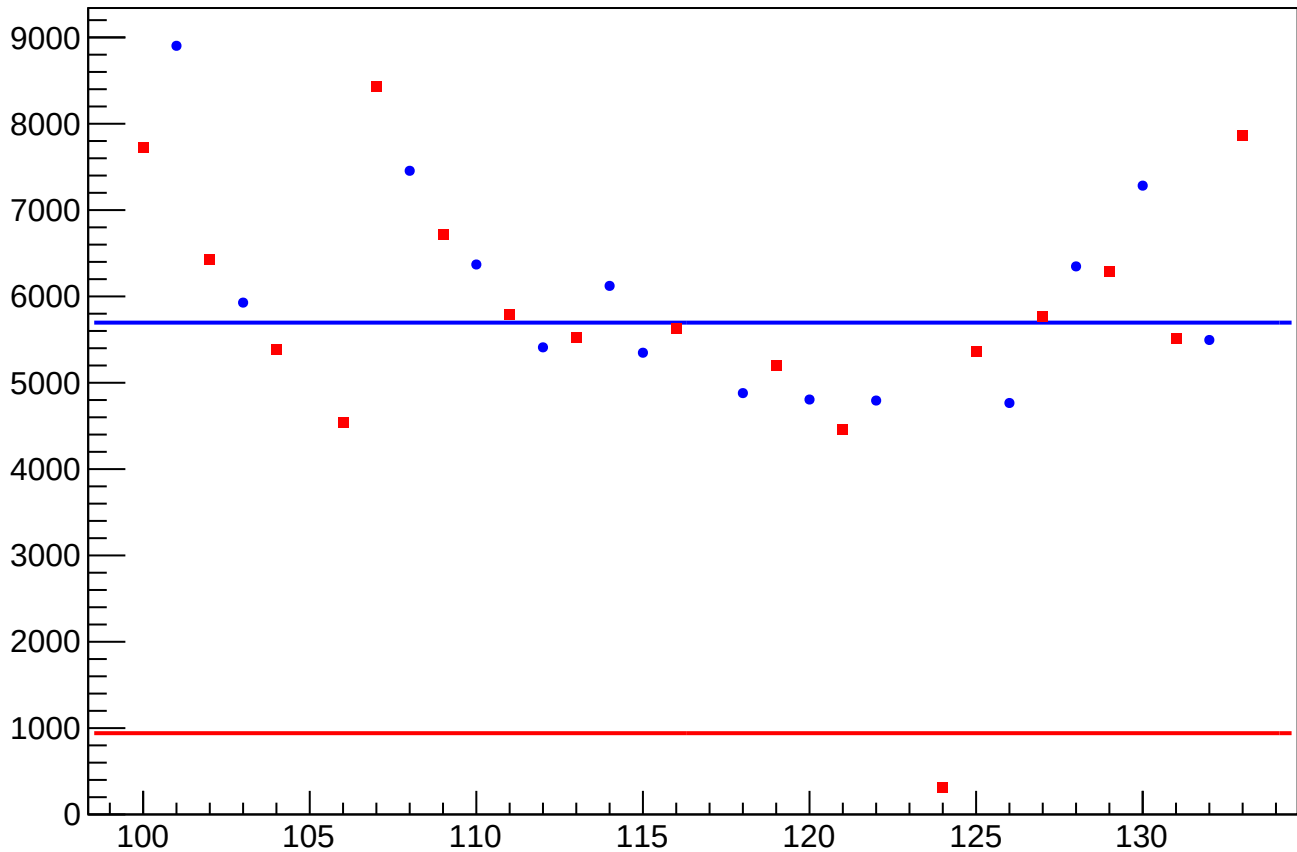
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-510.299 \pm 732.737$   $\chi^2/\text{NDF}$ : 29.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_cor\_correction\_rms vs Slug



Right In: 5696.574 $\pm$ 1.683  $\chi^2$ /NDF: 404813.5/13

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: 941.364 $\pm$ 0.545  $\chi^2$ /NDF: 10290767.6/16

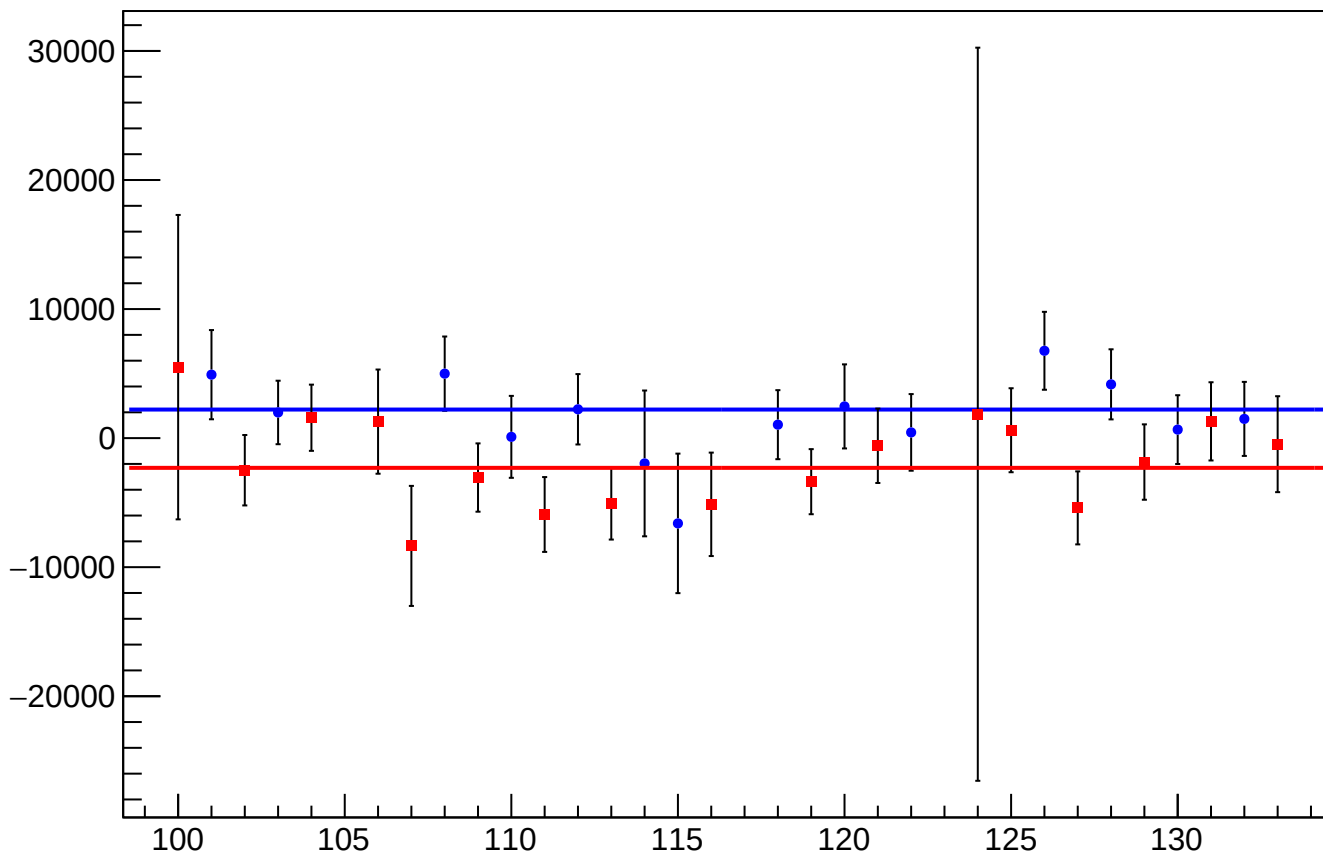
All: 1392.239 $\pm$ 0.518  $\chi^2$ /NDF: 17924864.4/3

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0



# eigen\_cor\_asym\_atl2\_mean vs Slug



Right In: 2213.841 $\pm$ 810.041  $\chi^2$ /NDF: 9.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2304.183 $\pm$ 778.350  $\chi^2$ /NDF: 12.6/16

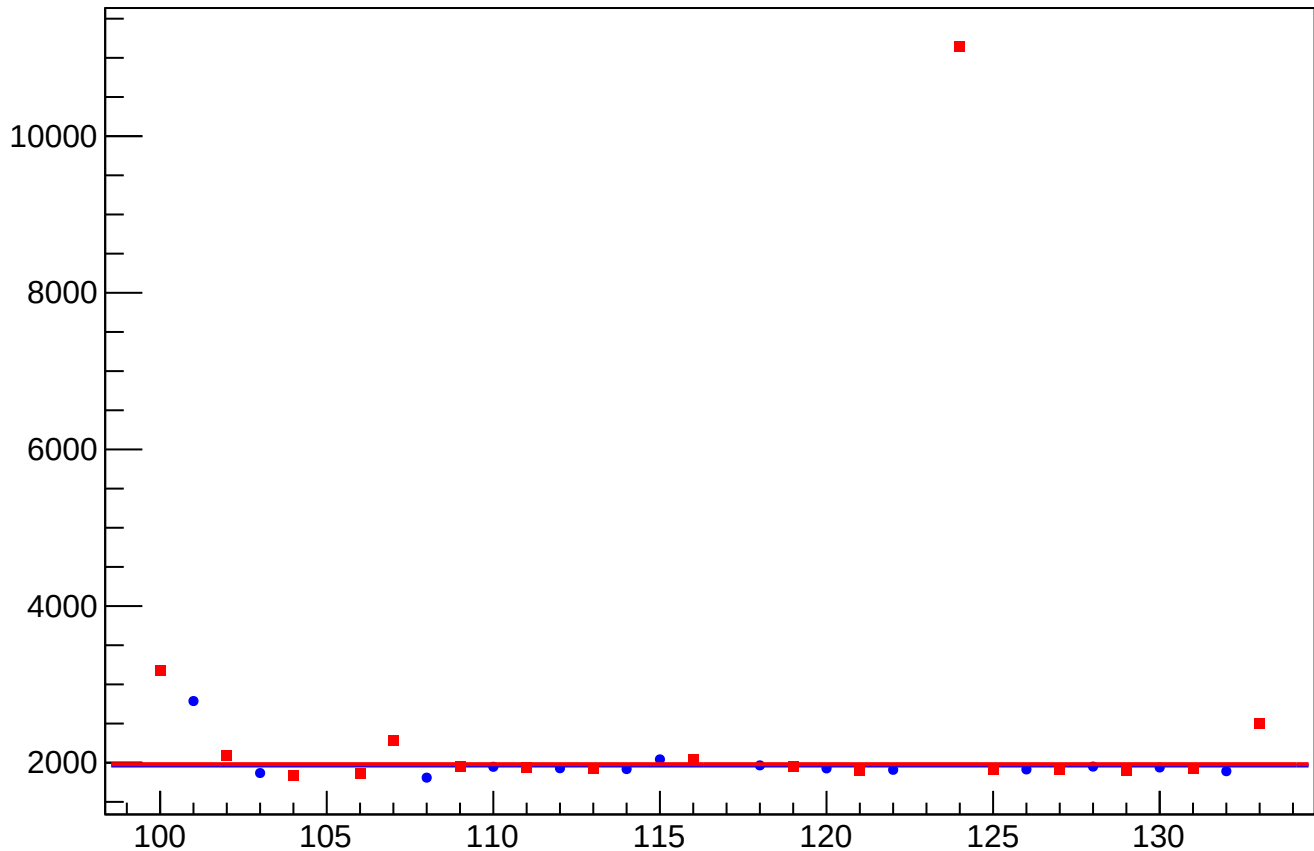
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -135.277 $\pm$ 561.246  $\chi^2$ /NDF: 37.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atl2\_rms vs Slug



Right In: 1964.379+/-0.573  $\chi^2/\text{NDF}$ : 126156.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1981.530+/-0.550  $\chi^2/\text{NDF}$ : 296056.2/16

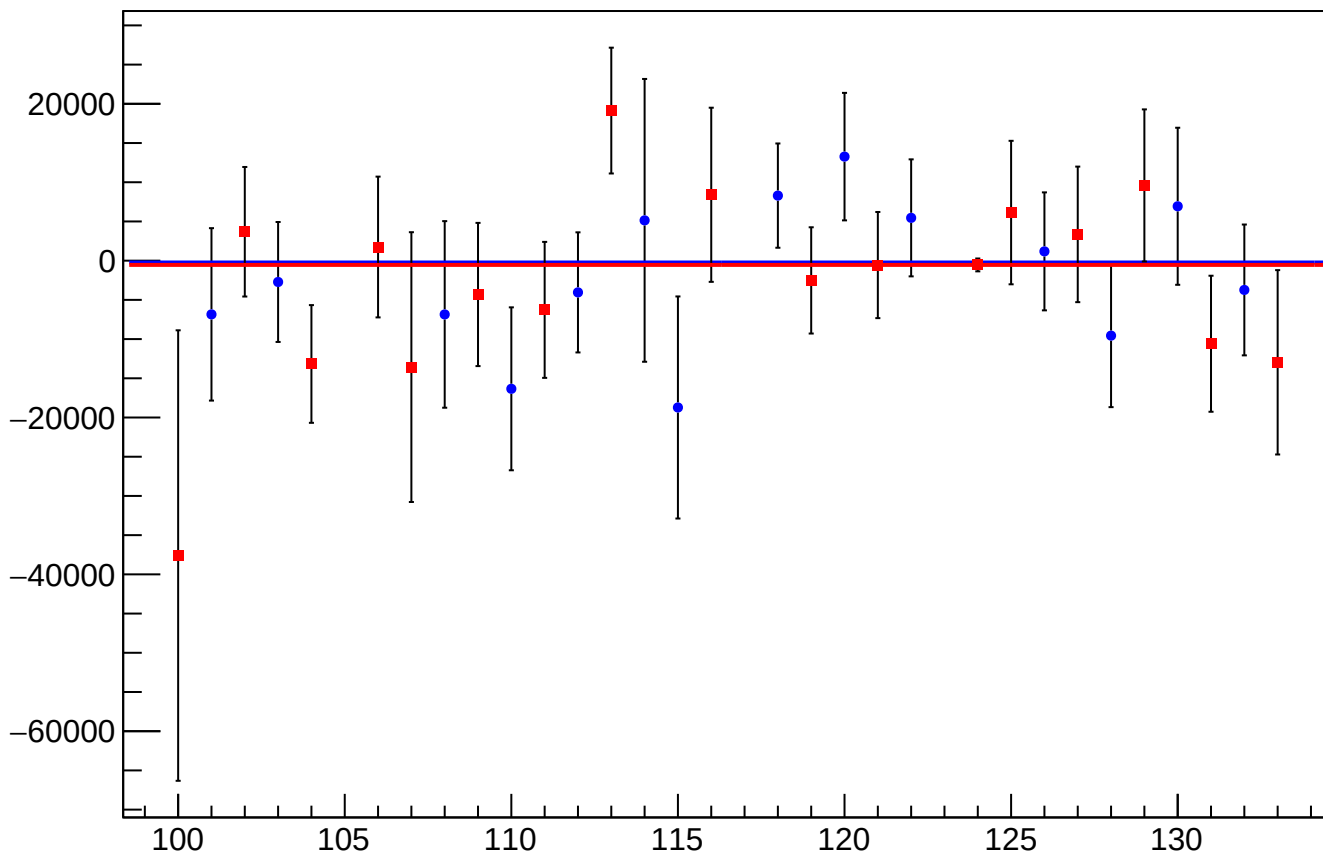
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1973.296+/-0.397  $\chi^2/\text{NDF}$ : 422679.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_eigen\_cor\_correction\_mean vs Slug



Right In: -235.423+/-2379.607  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -539.092+/-770.158  $\chi^2/\text{NDF}$ : 17.0/16

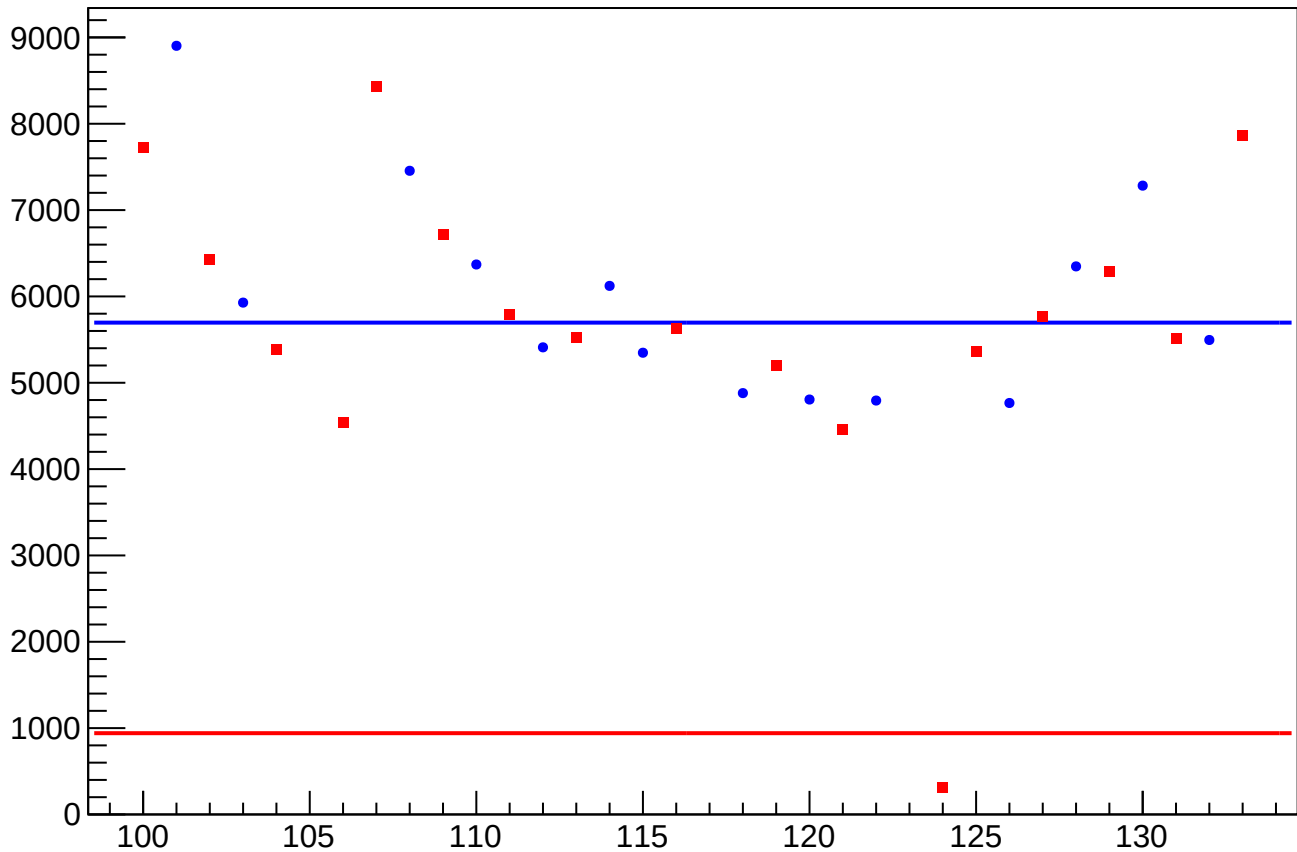
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -510.299+/-732.737  $\chi^2/\text{NDF}$ : 29.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_eigen\_cor\_correction\_rms vs Slug



Right In: 5696.574 $\pm$ 1.683  $\chi^2$ /NDF: 404813.5/13

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

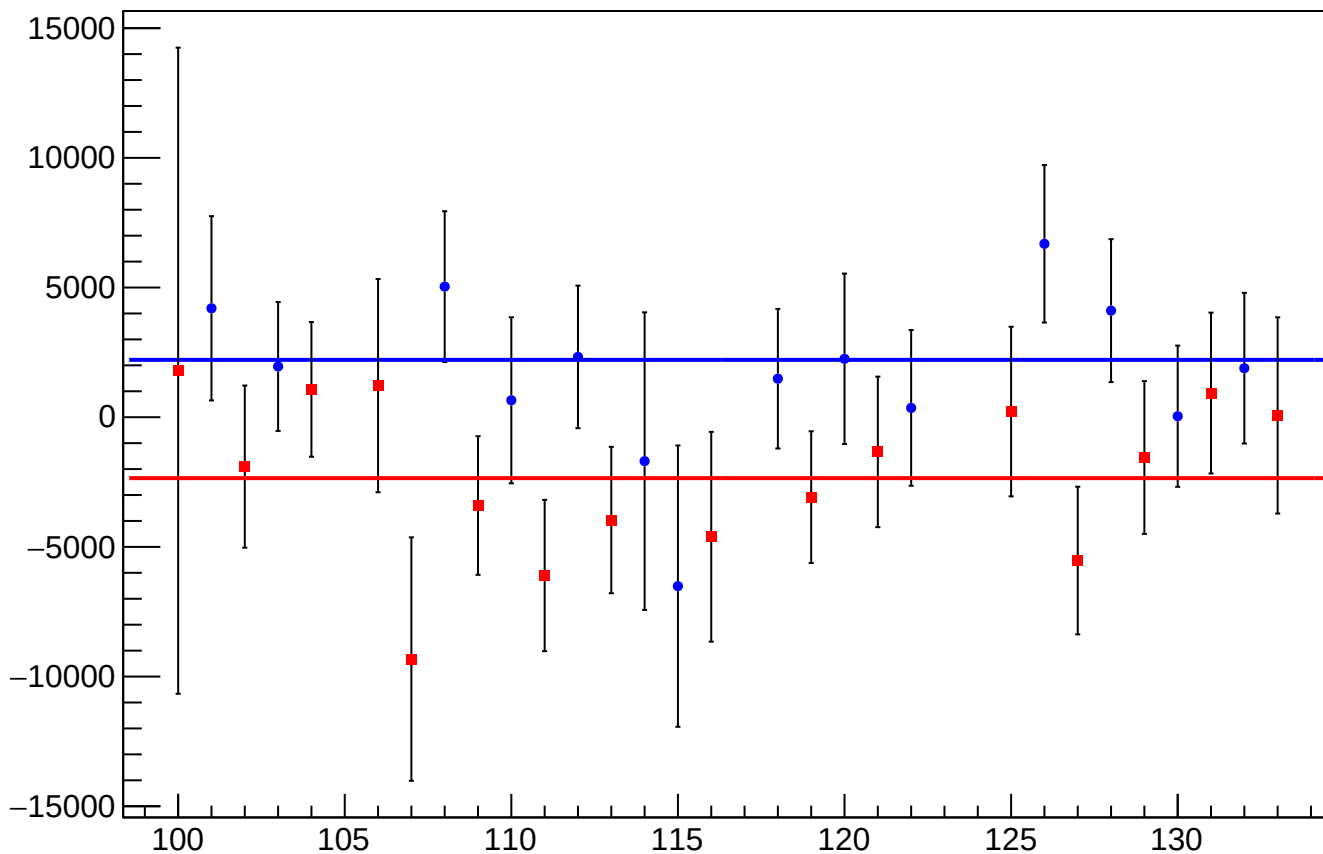
Right Out: 941.364 $\pm$ 0.545  $\chi^2$ /NDF: 10290767.6/16

All: 1392.239 $\pm$ 0.518  $\chi^2$ /NDF: 17924864.4/3

- 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\_atl2\_mean vs Slug



Right In: 2211.905 $\pm$ 819.509  $\chi^2$ /NDF: 8.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2349.227 $\pm$ 794.122  $\chi^2$ /NDF: 10.9/15

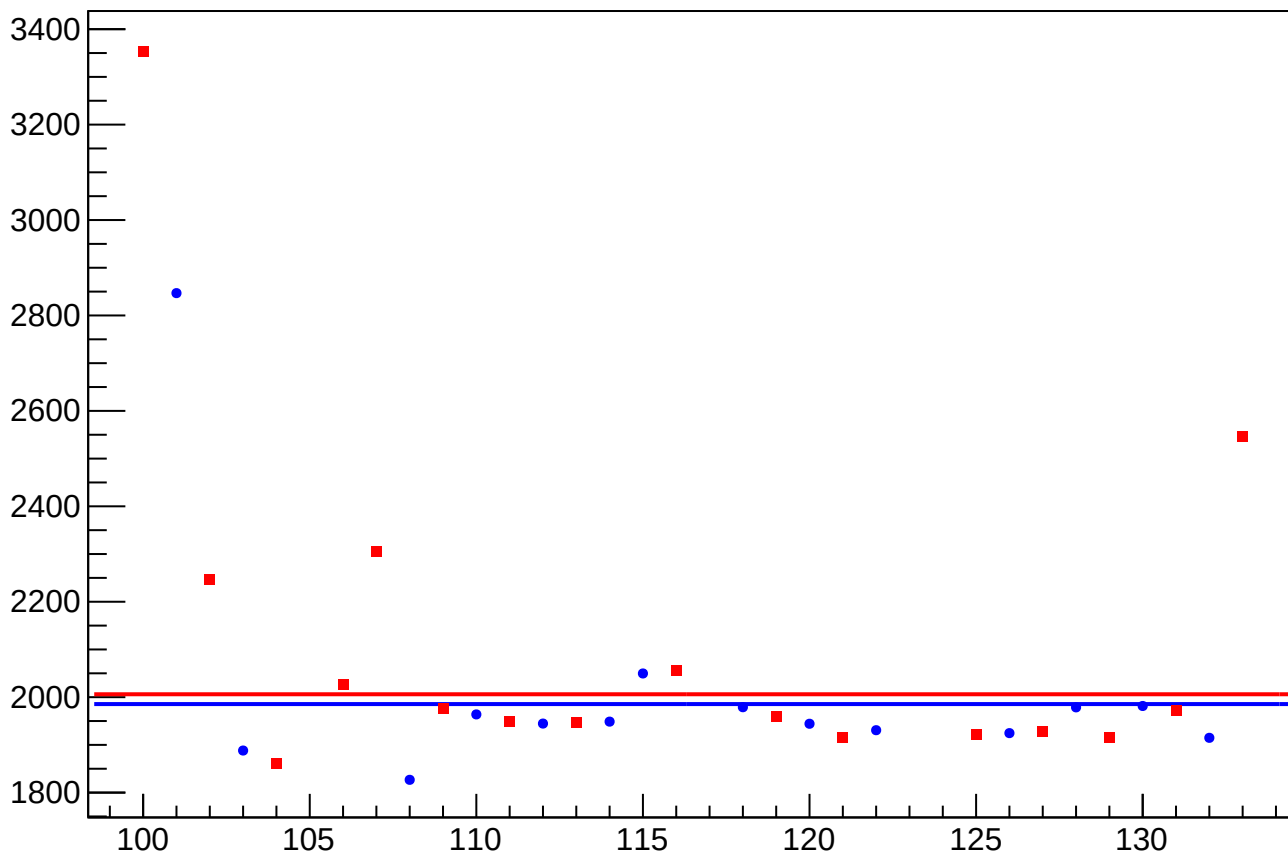
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -140.403 $\pm$ 570.293  $\chi^2$ /NDF: 35.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atl2\_rms vs Slug



Right In: 1985.532 $\pm$ 0.579  $\chi^2$ /NDF: 130502.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2006.103 $\pm$ 0.561  $\chi^2$ /NDF: 100276.6/15

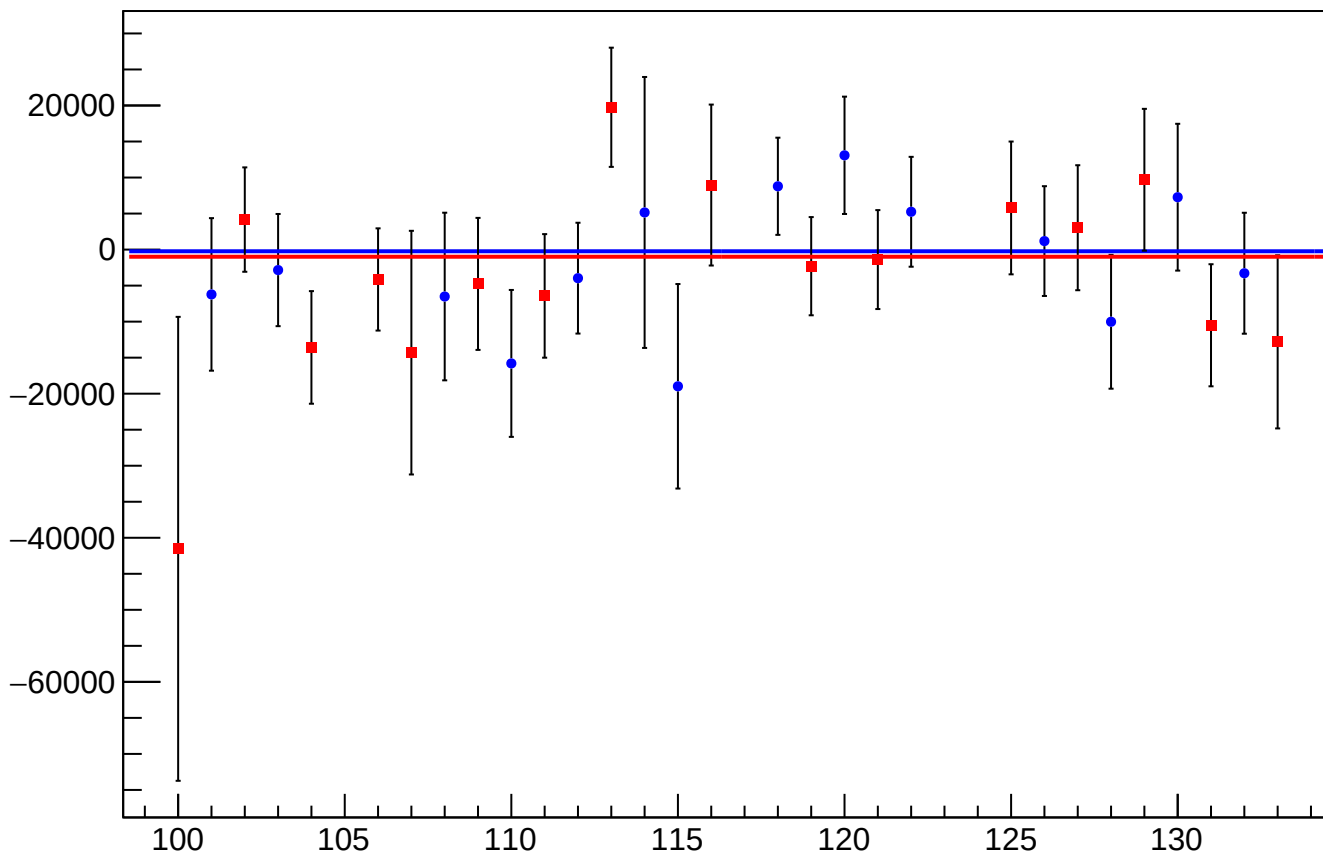
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1996.158 $\pm$ 0.403  $\chi^2$ /NDF: 231429.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_dit\_correction\_mean vs Slug



Right In: -233.497+/-2397.112  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -990.337+/-2198.588  $\chi^2/\text{NDF}$ : 17.4/15

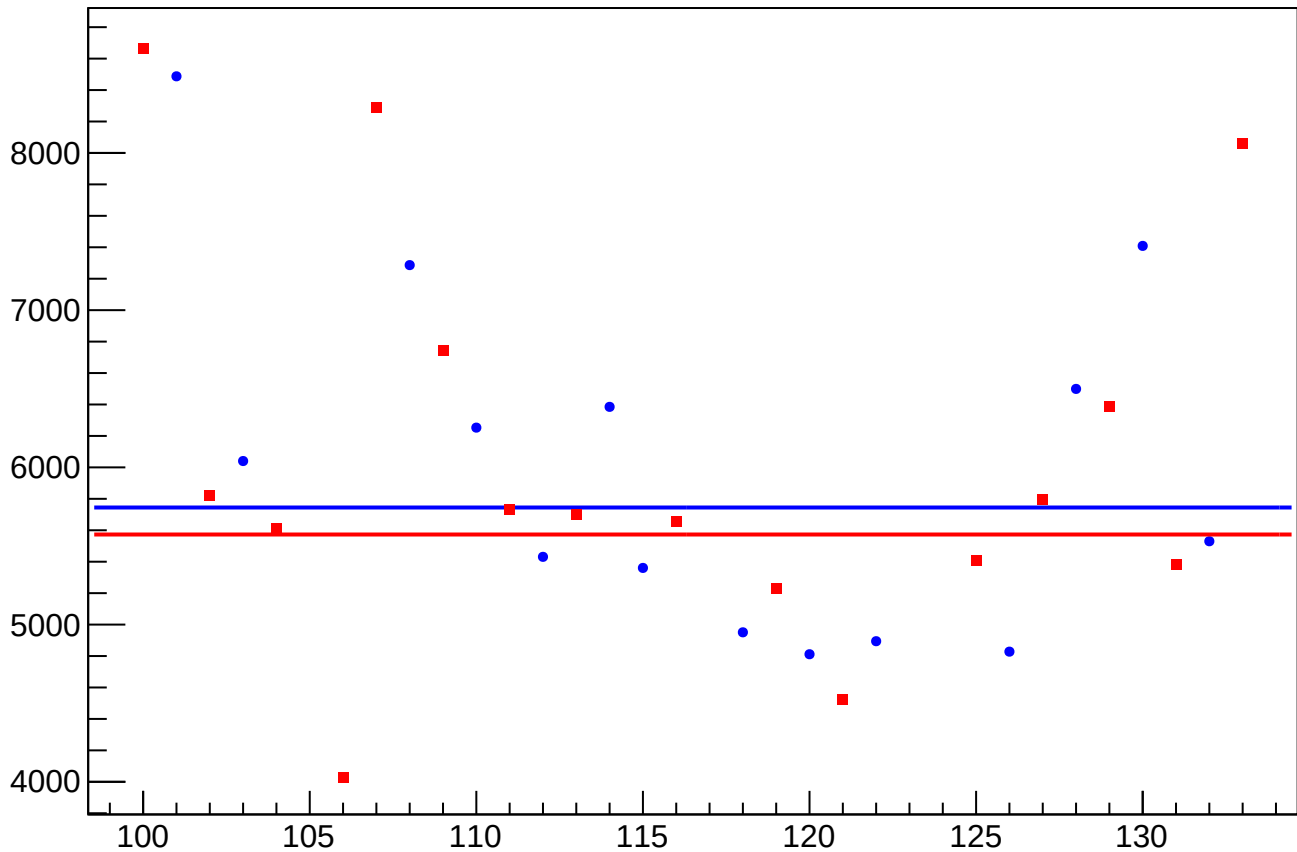
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -644.550+/-1620.282  $\chi^2/\text{NDF}$ : 29.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_dit\_correction\_rms vs Slug



Right In: 5744.759+/-1.695  $\chi^2/\text{NDF}$ : 359994.3/13

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: 5572.997+/-1.555  $\chi^2/\text{NDF}$ : 355189.2/15

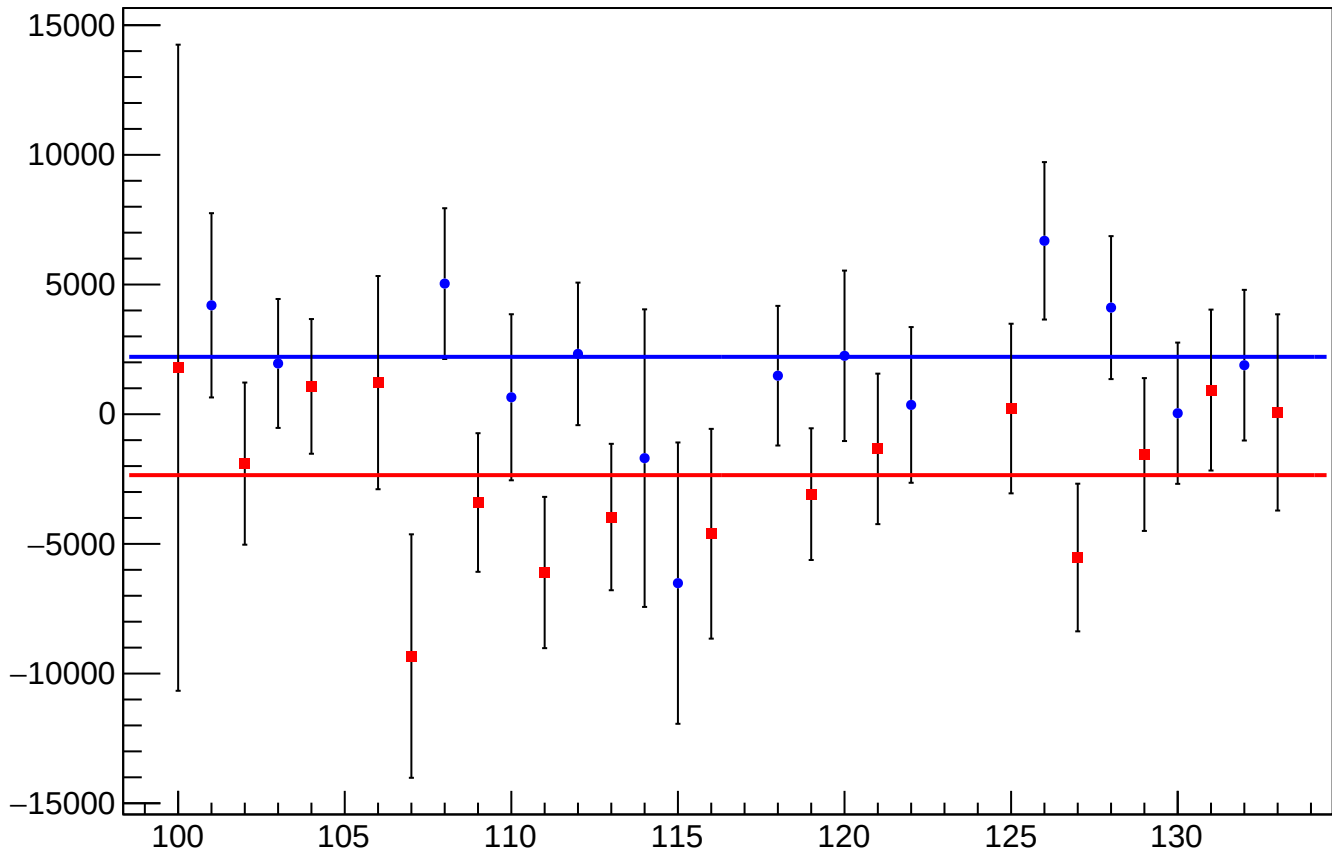
All: 5651.472+/-1.146  $\chi^2/\text{NDF}$ : 720760.5/29

- 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\_atl2\_mean vs Slug



Right In: 2211.917 $\pm$ 819.509  $\chi^2$ /NDF: 8.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2349.232 $\pm$ 794.122  $\chi^2$ /NDF: 10.9/15

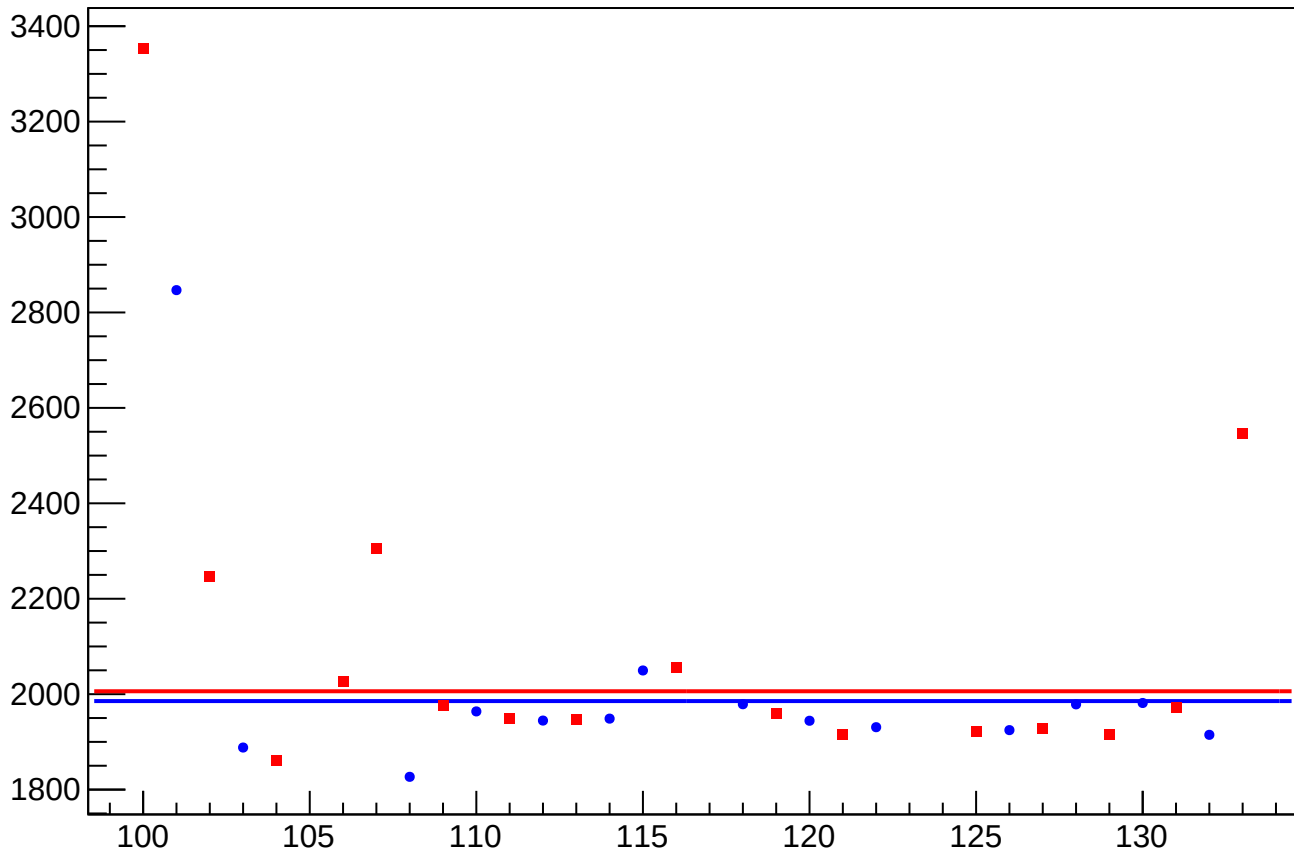
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -140.400 $\pm$ 570.293  $\chi^2$ /NDF: 35.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atl2\_rms vs Slug



Right In: 1985.532 $\pm$ 0.579  $\chi^2$ /NDF: 130501.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2006.103 $\pm$ 0.561  $\chi^2$ /NDF: 100276.5/15

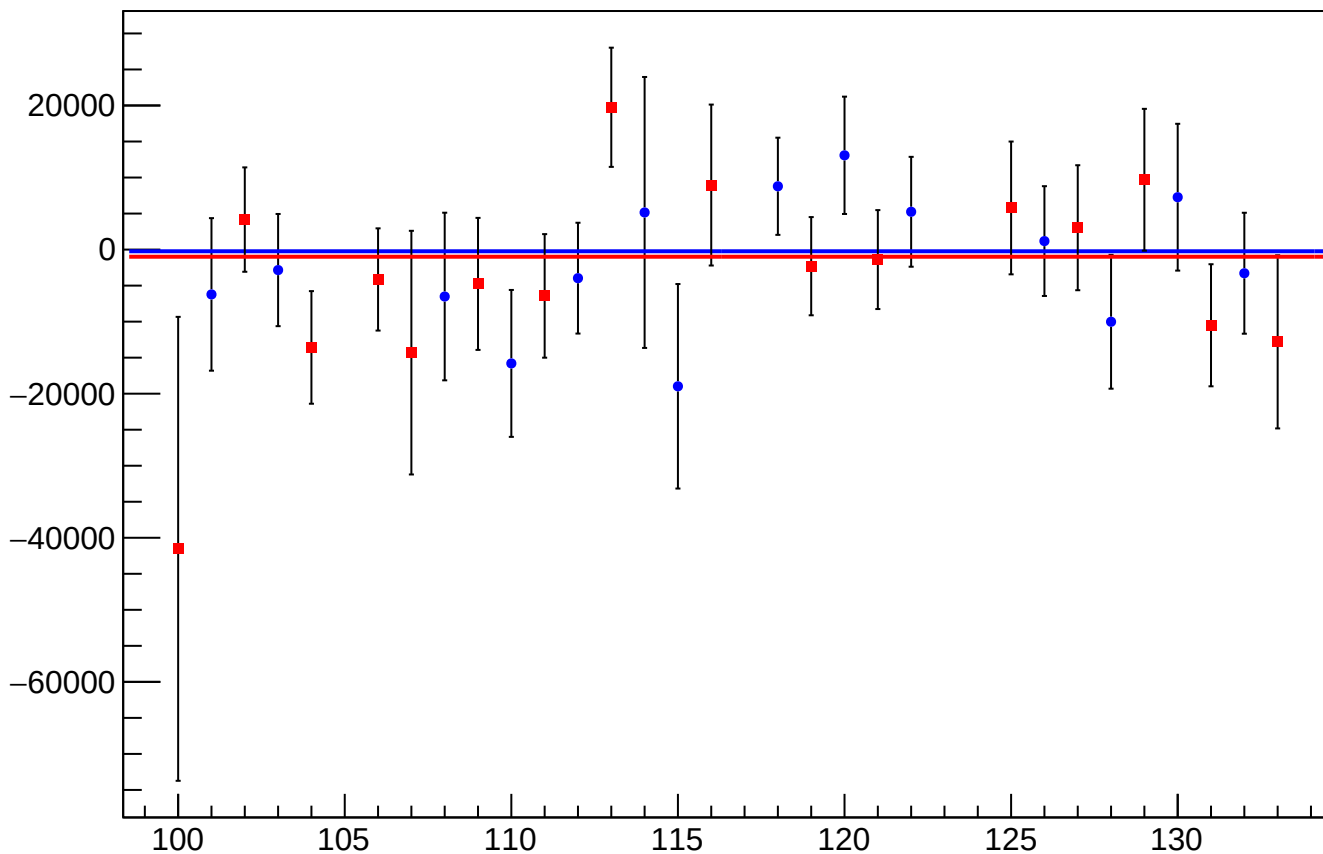
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1996.157 $\pm$ 0.403  $\chi^2$ /NDF: 231429.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_eigen\_dit\_correction\_mean vs Slug



Right In: -233.489+/-2397.104  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -990.342+/-2198.581  $\chi^2/\text{NDF}$ : 17.4/15

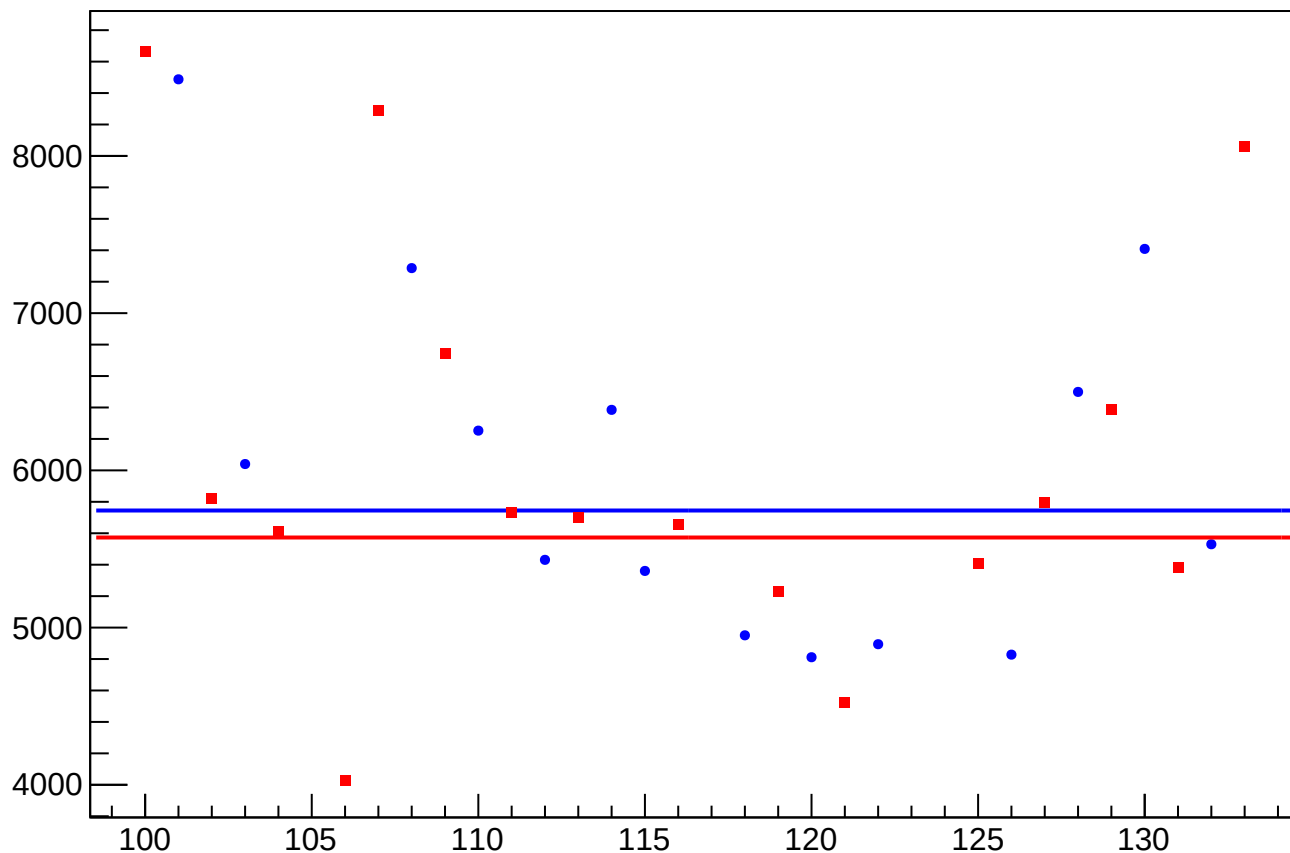
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -644.549+/-1620.277  $\chi^2/\text{NDF}$ : 29.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_eigen\_dit\_correction\_rms vs Slug



Right In: 5744.739+/-1.695  $\chi^2/\text{NDF}$ : 359997.8/13

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

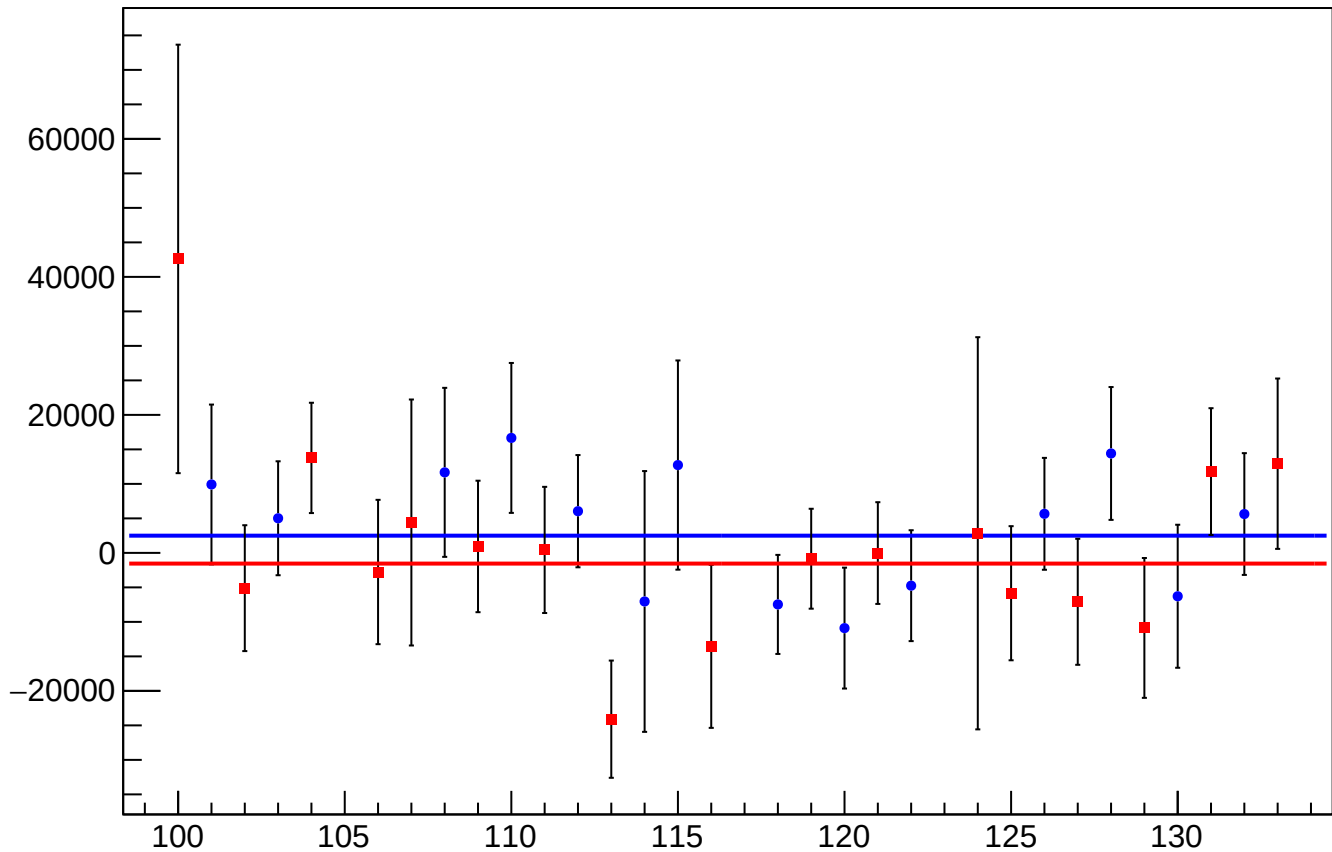
Right Out: 5572.980+/-1.555  $\chi^2/\text{NDF}$ : 355189.7/15

All: 5651.453+/-1.146  $\chi^2/\text{NDF}$ : 720764.4/29

- 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\_atl2\_mean vs Slug



Right In: 2495.309+/-2534.953  $\chi^2/\text{NDF}$ : 11.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1551.656+/-2394.366  $\chi^2/\text{NDF}$ : 19.1/16

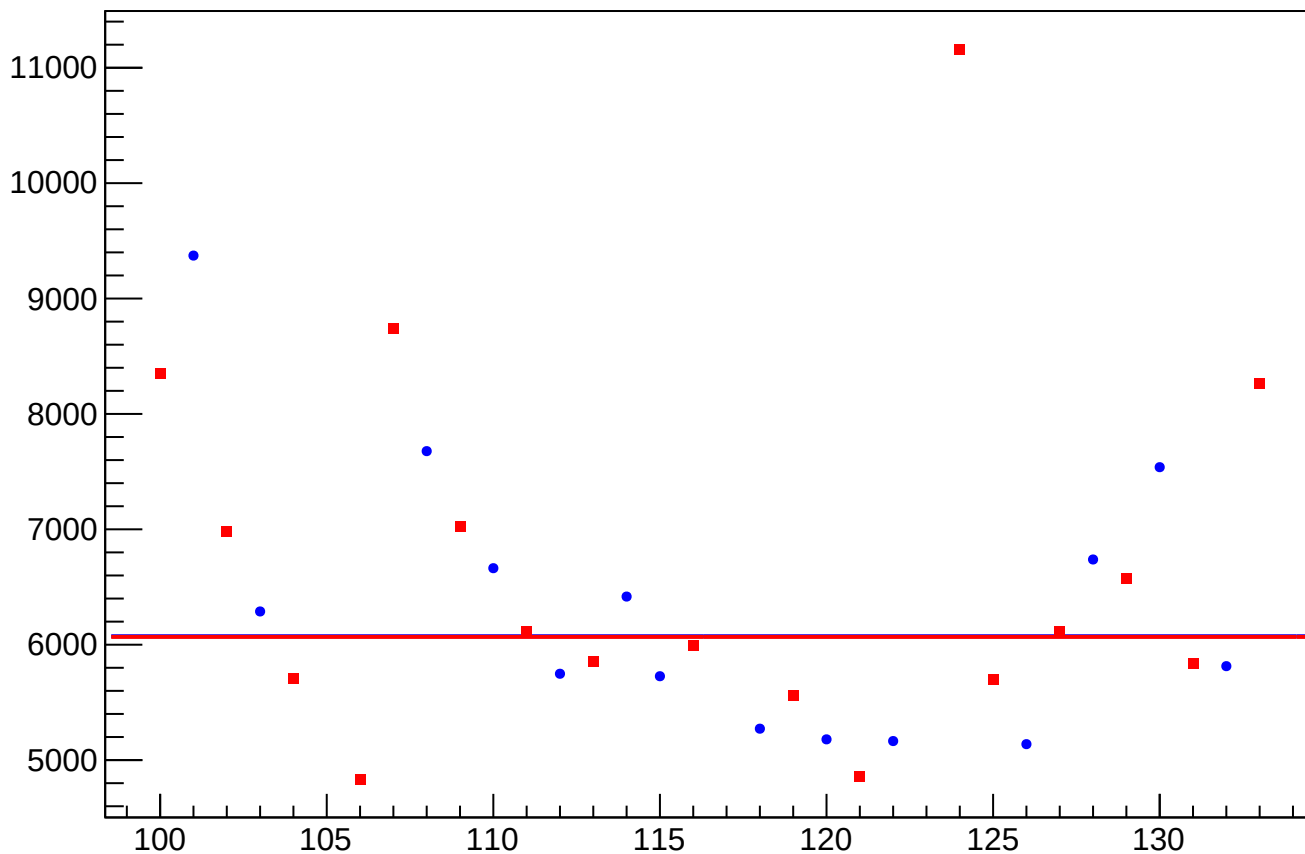
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 356.499+/-1740.652  $\chi^2/\text{NDF}$ : 31.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_rms vs Slug



Right In: 6073.341+/-1.792  $\chi^2/\text{NDF}$ : 357951.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6067.767+/-1.693  $\chi^2/\text{NDF}$ : 329421.1/16

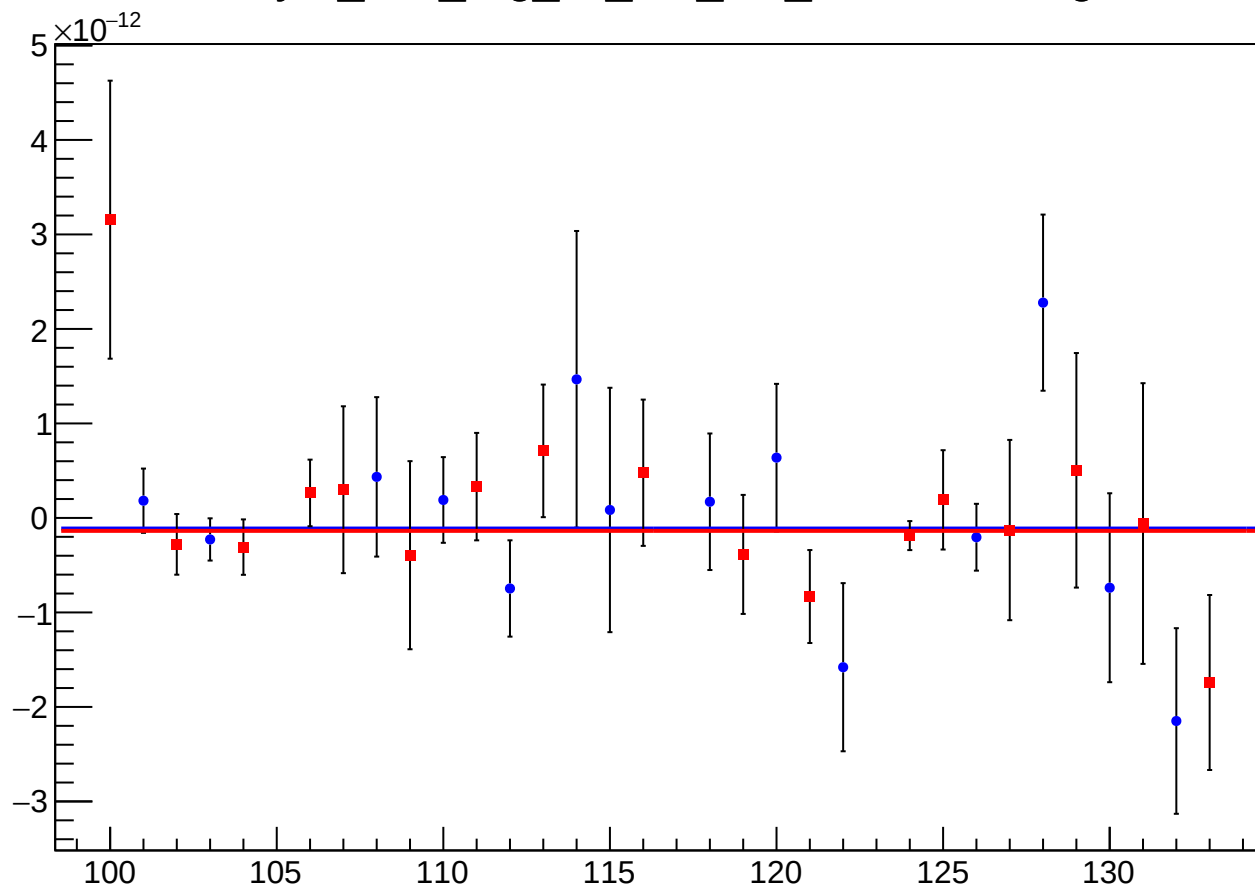
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6070.395+/-1.231  $\chi^2/\text{NDF}$ : 687377.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.8/16

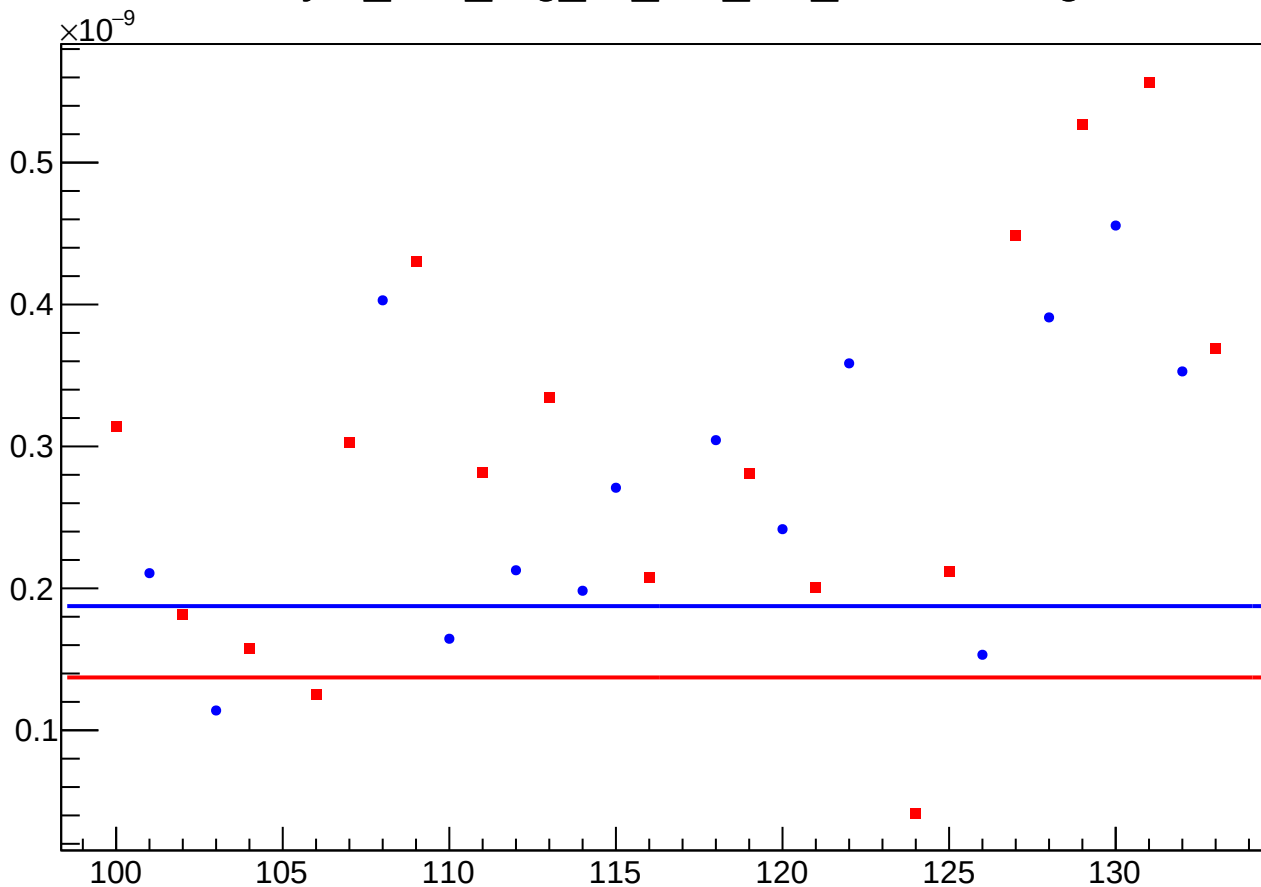
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 35.5/30

- 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  $\chi^2/\text{NDF}$ : 825489.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2281594.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

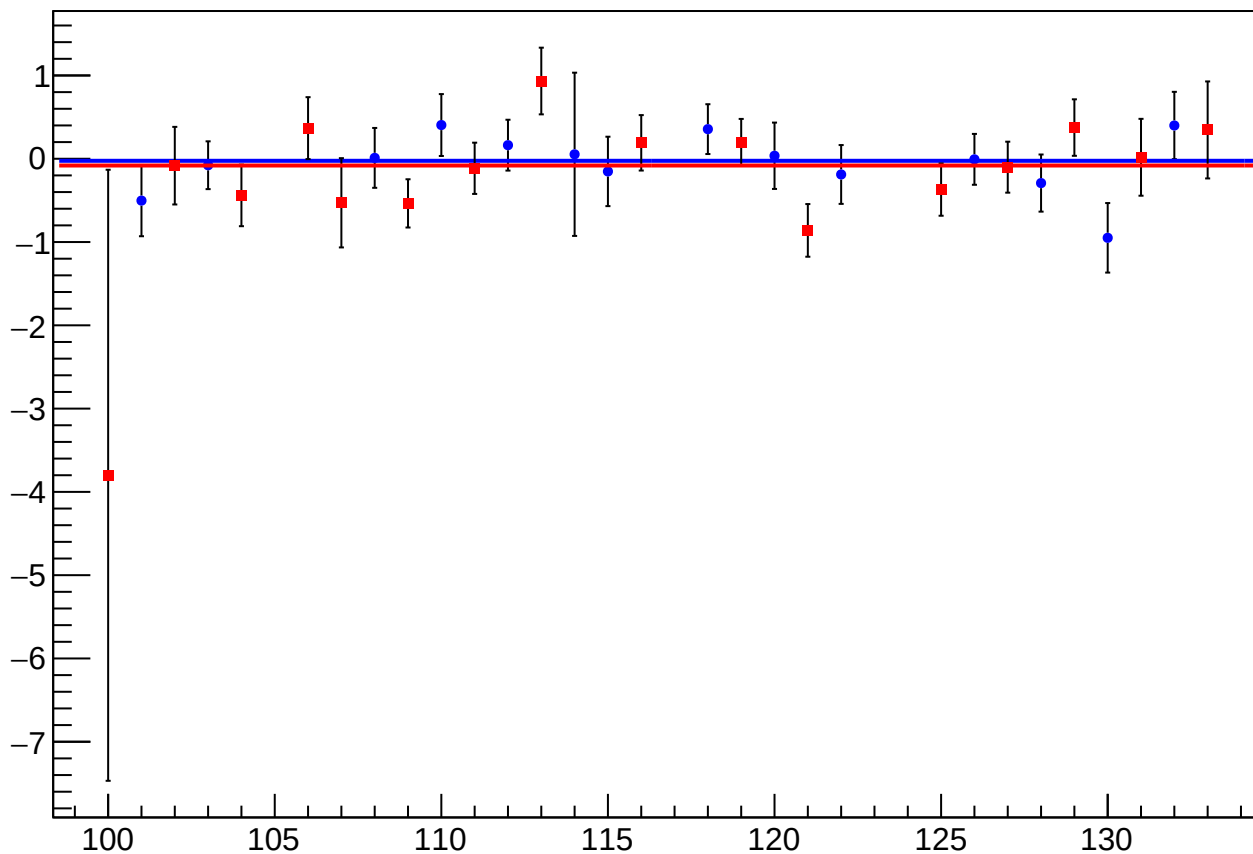
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3284728.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl2\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.025 \pm 0.097$   $\chi^2/\text{NDF}$ : 11.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.081 \pm 0.091$   $\chi^2/\text{NDF}$ : 24.0/15

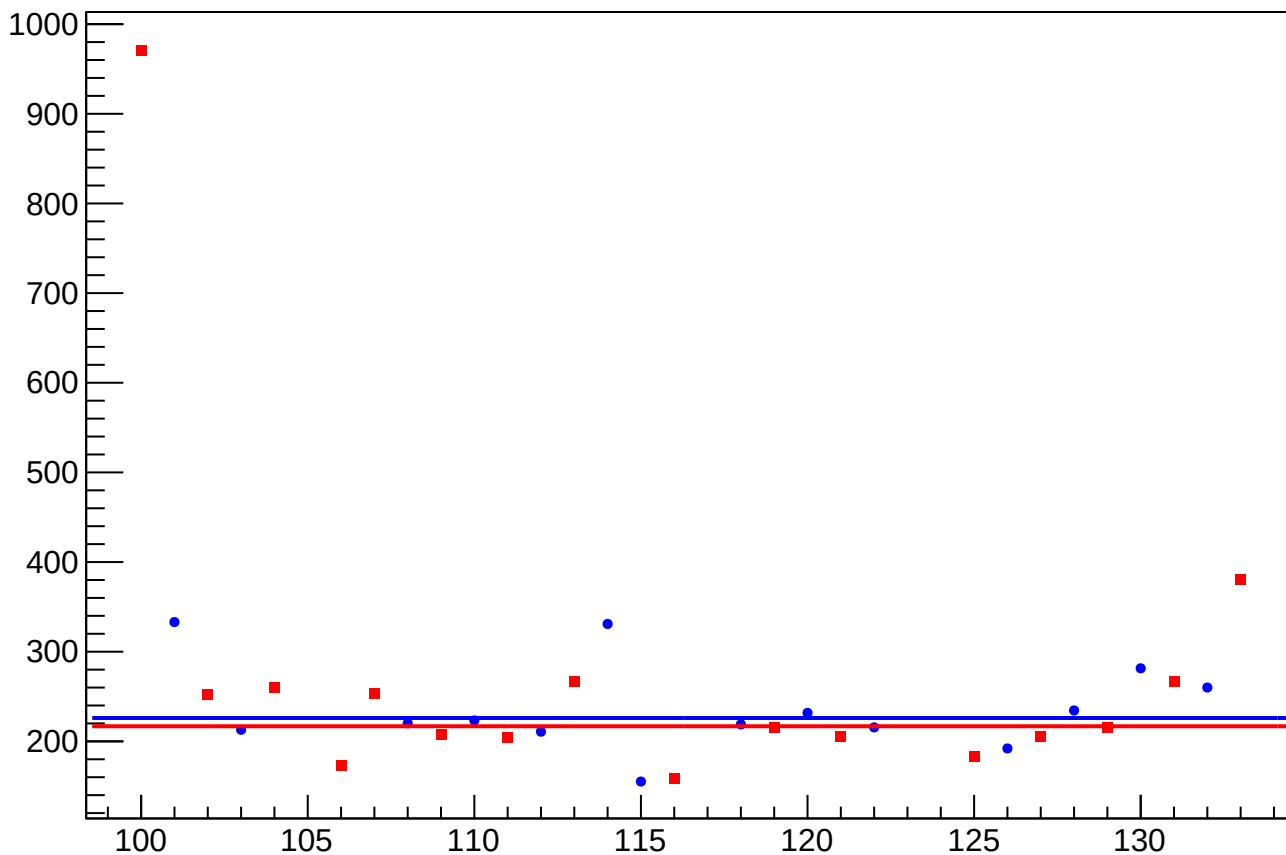
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.054 \pm 0.066$   $\chi^2/\text{NDF}$ : 35.7/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 226.072 $\pm$ 0.068  $\chi^2$ /NDF: 294389.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 216.854 $\pm$ 0.065  $\chi^2$ /NDF: 467229.2/15

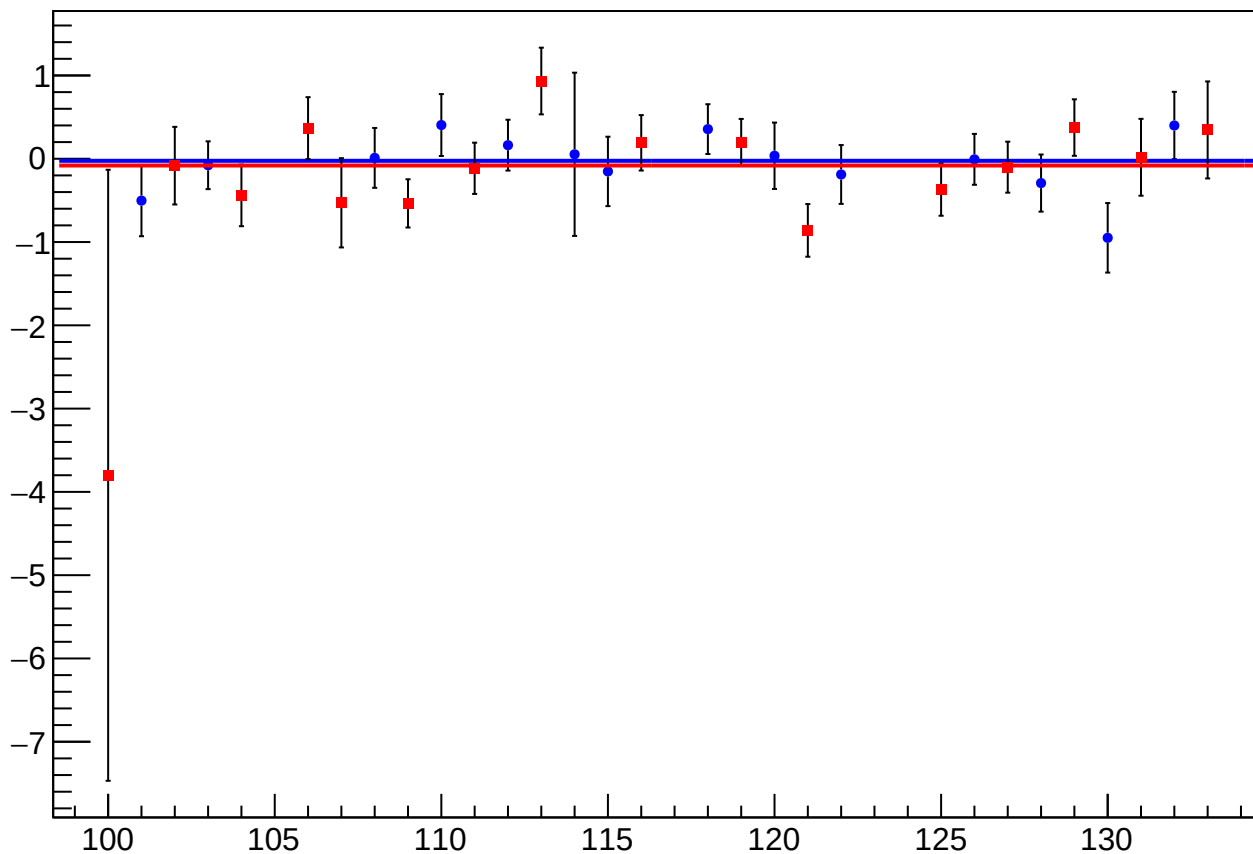
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 221.190 $\pm$ 0.047  $\chi^2$ /NDF: 771221.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.025 \pm 0.097$   $\chi^2/\text{NDF}$ : 11.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.081 \pm 0.091$   $\chi^2/\text{NDF}$ : 24.0/15

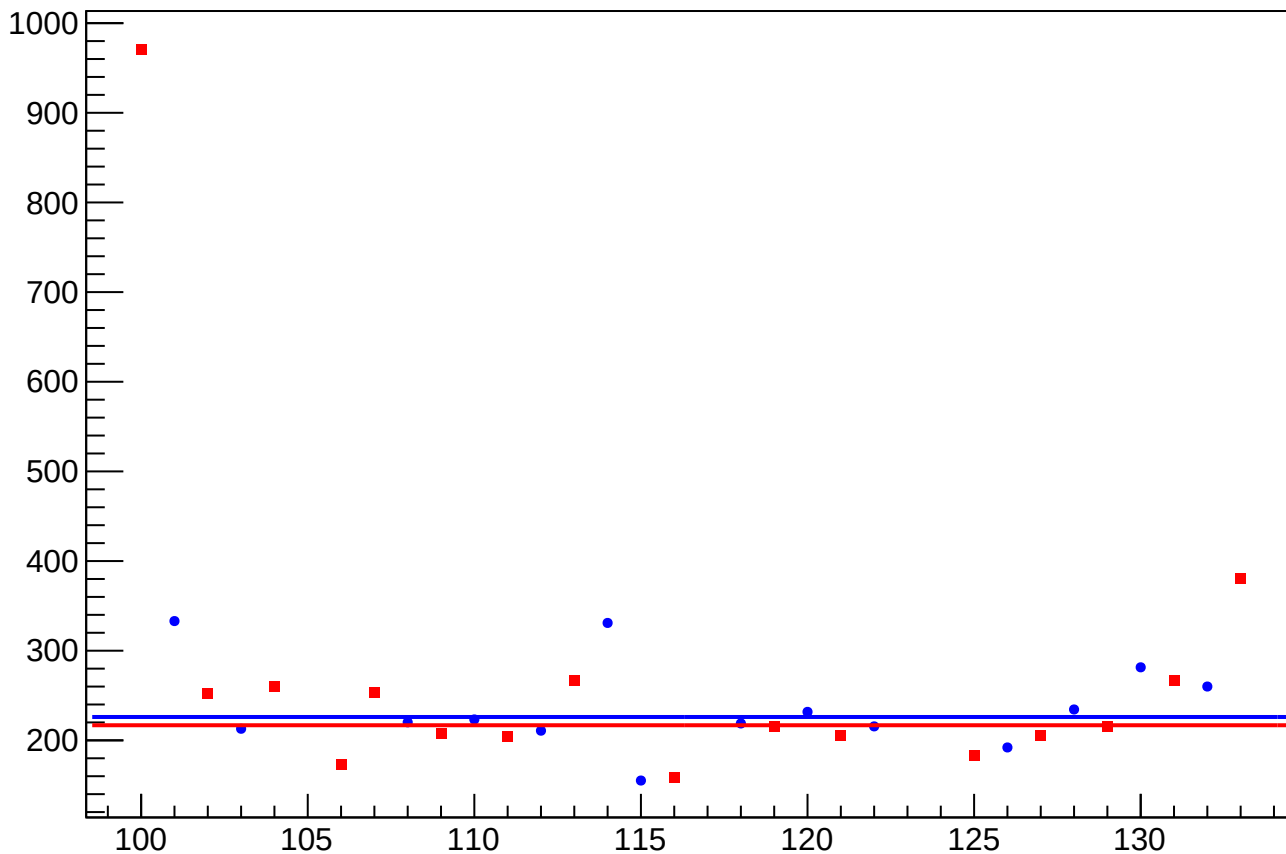
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.054 \pm 0.066$   $\chi^2/\text{NDF}$ : 35.7/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 226.072 $\pm$ 0.068  $\chi^2$ /NDF: 294389.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 216.854 $\pm$ 0.065  $\chi^2$ /NDF: 467229.2/15

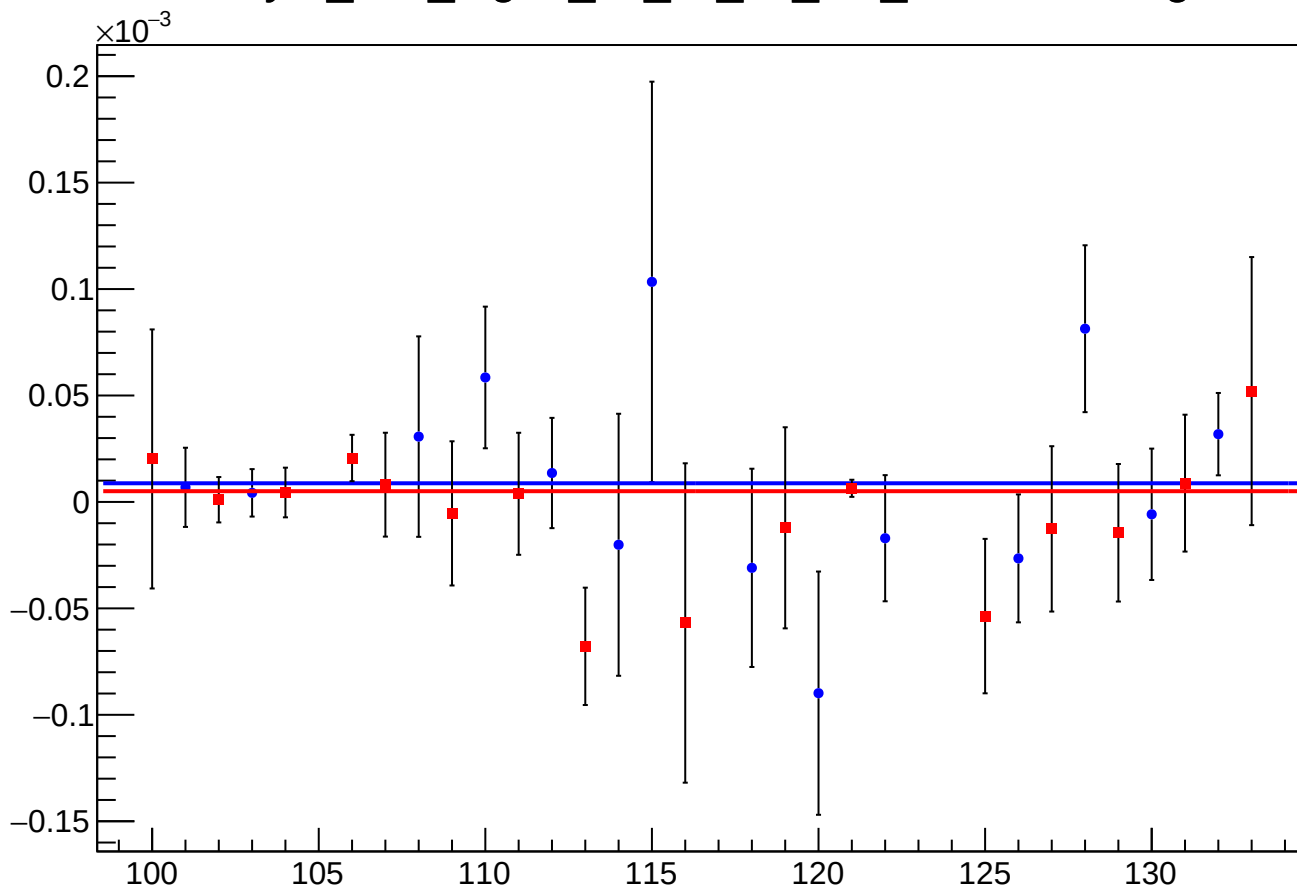
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 221.190 $\pm$ 0.047  $\chi^2$ /NDF: 771221.4/29

- 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: 14.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.0/15

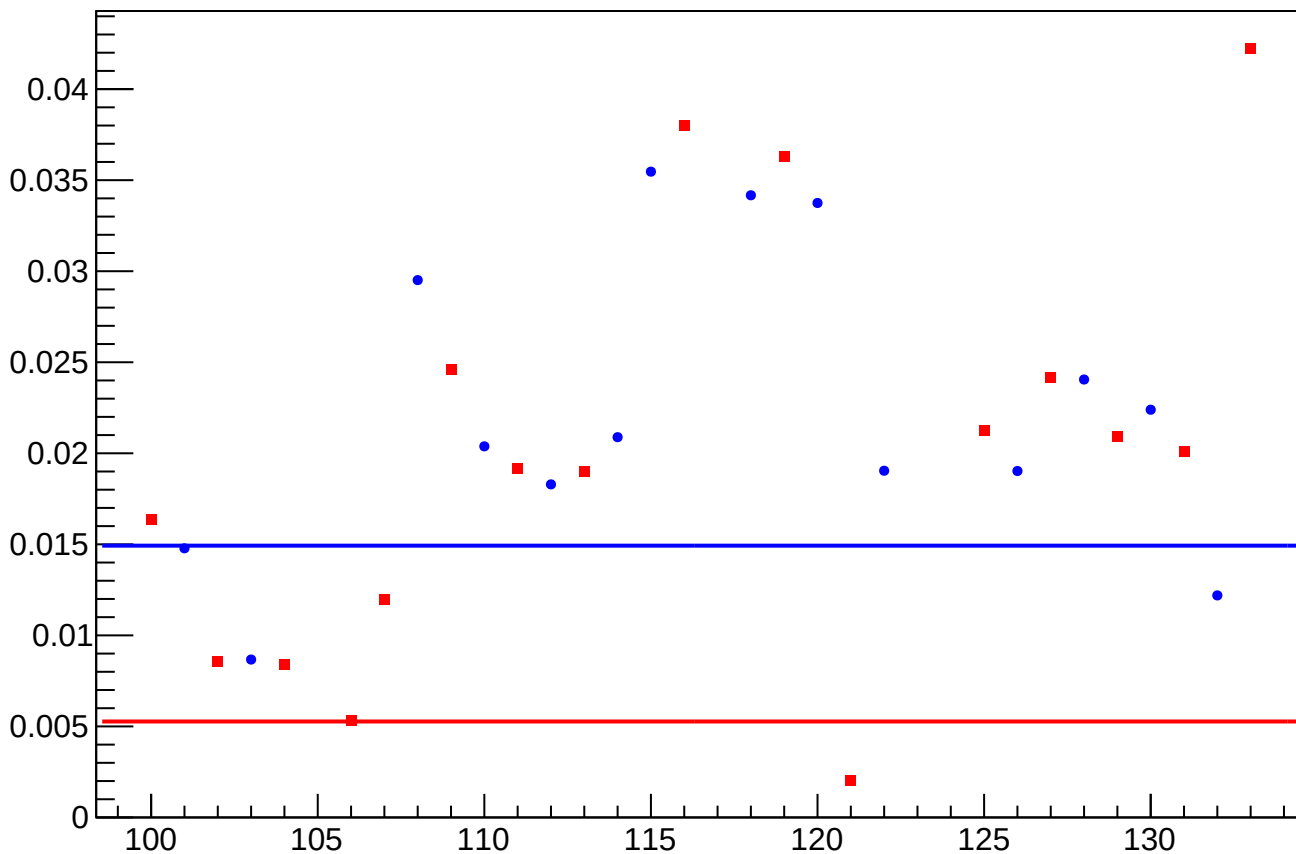
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 29.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1922988.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 7181972.7/15

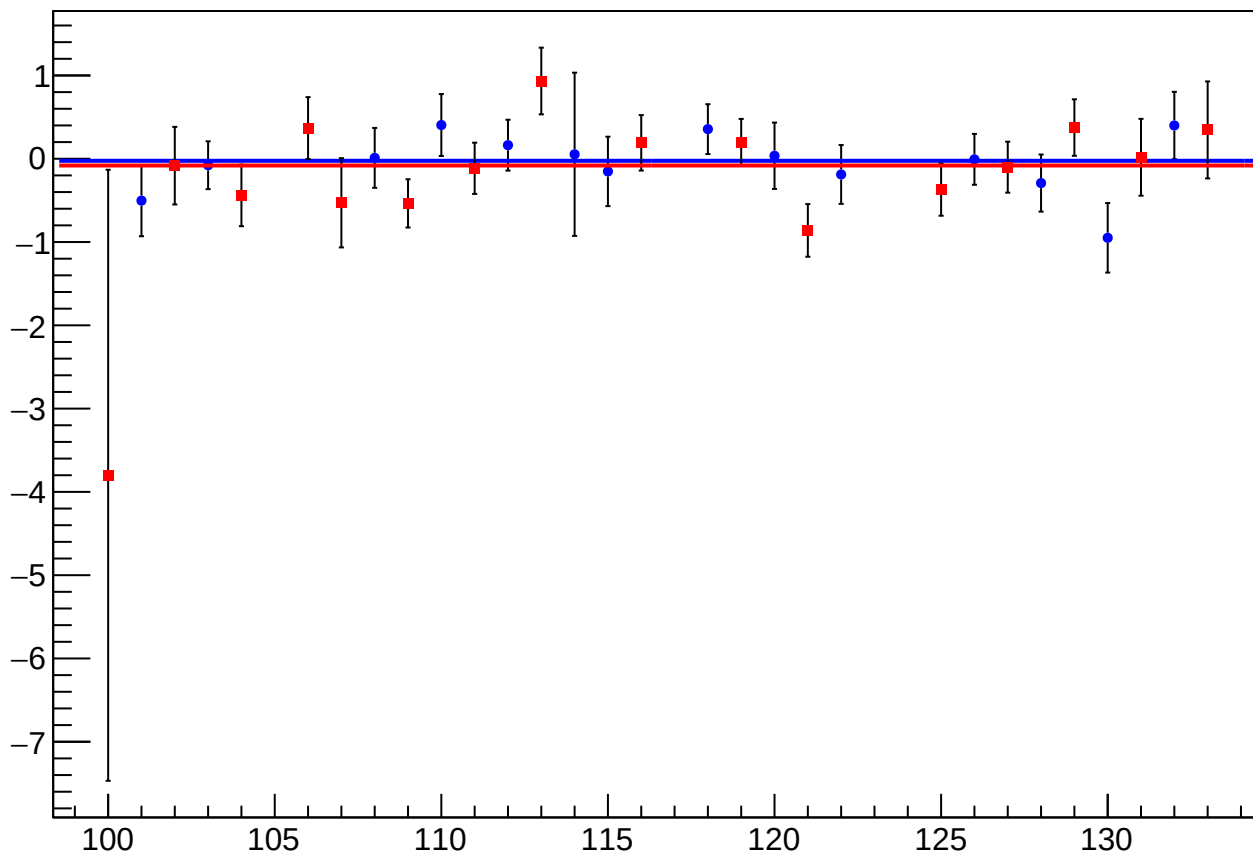
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 12387535.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.025 \pm 0.097$   $\chi^2/\text{NDF}$ : 11.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.081 \pm 0.091$   $\chi^2/\text{NDF}$ : 24.0/15

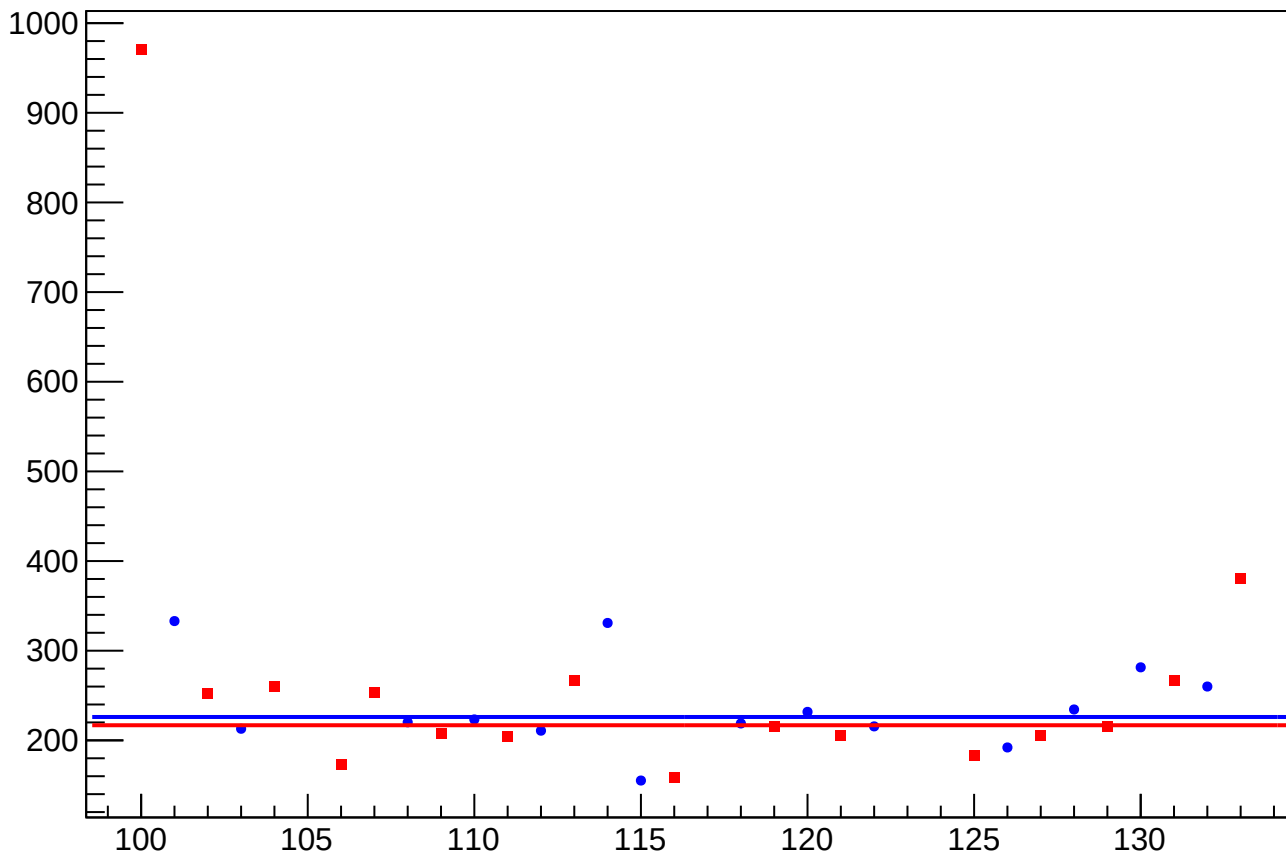
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.054 \pm 0.066$   $\chi^2/\text{NDF}$ : 35.7/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 226.072 $\pm$ 0.068  $\chi^2$ /NDF: 294345.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 216.856 $\pm$ 0.065  $\chi^2$ /NDF: 467162.9/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

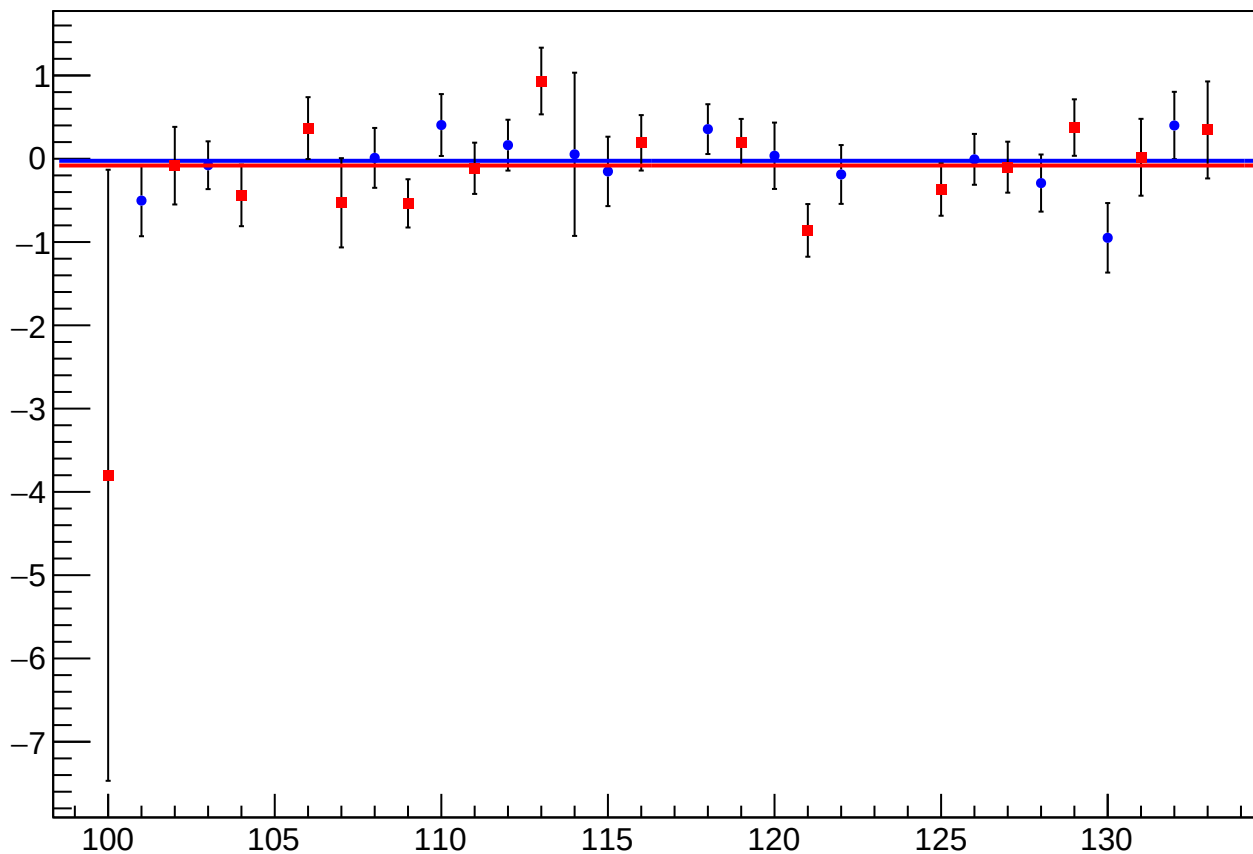
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 221.191 $\pm$ 0.047  $\chi^2$ /NDF: 771109.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_atl2\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.025 \pm 0.097$   $\chi^2/\text{NDF}$ : 11.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.081 \pm 0.091$   $\chi^2/\text{NDF}$ : 24.0/15

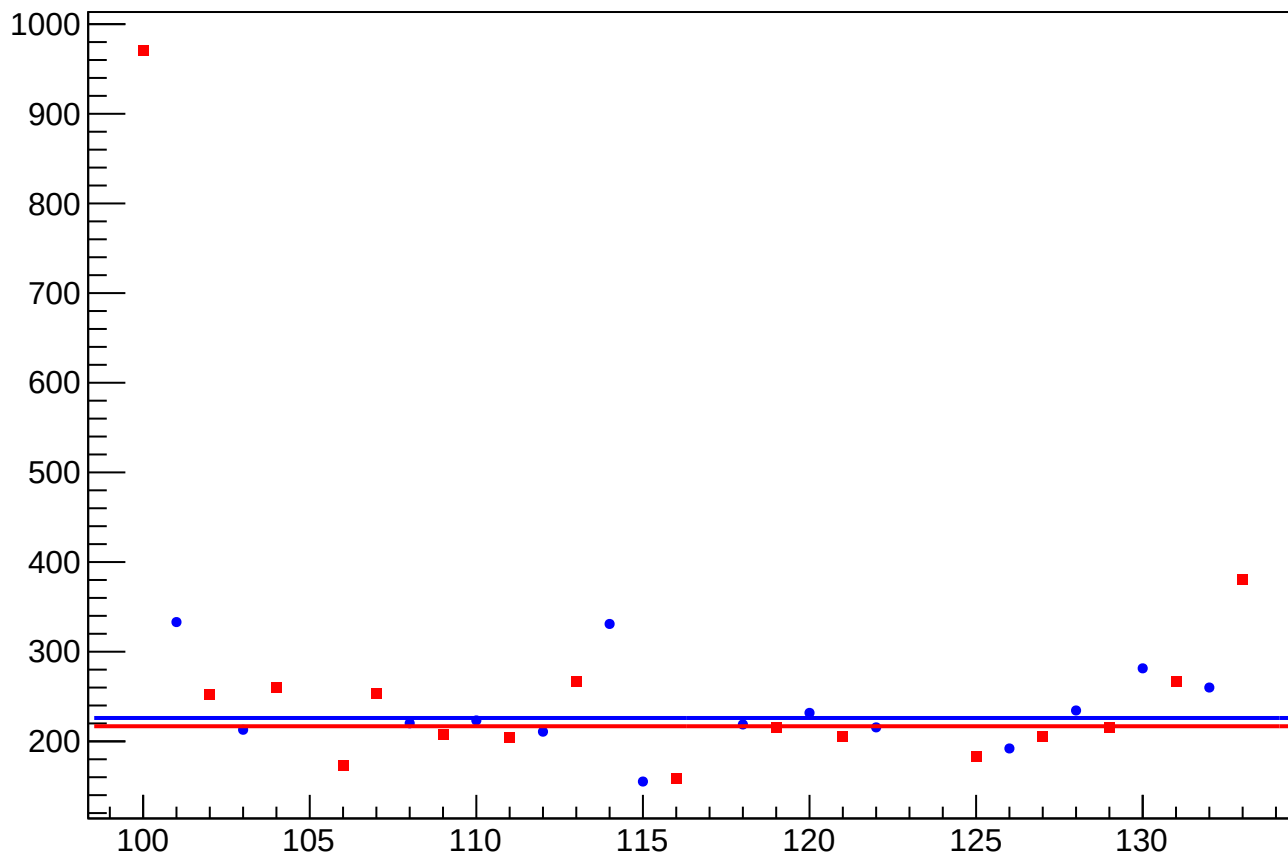
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.054 \pm 0.066$   $\chi^2/\text{NDF}$ : 35.7/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl2\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 226.072+/-0.068  $\chi^2/\text{NDF}$ : 294345.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 216.856+/-0.065  $\chi^2/\text{NDF}$ : 467162.9/15

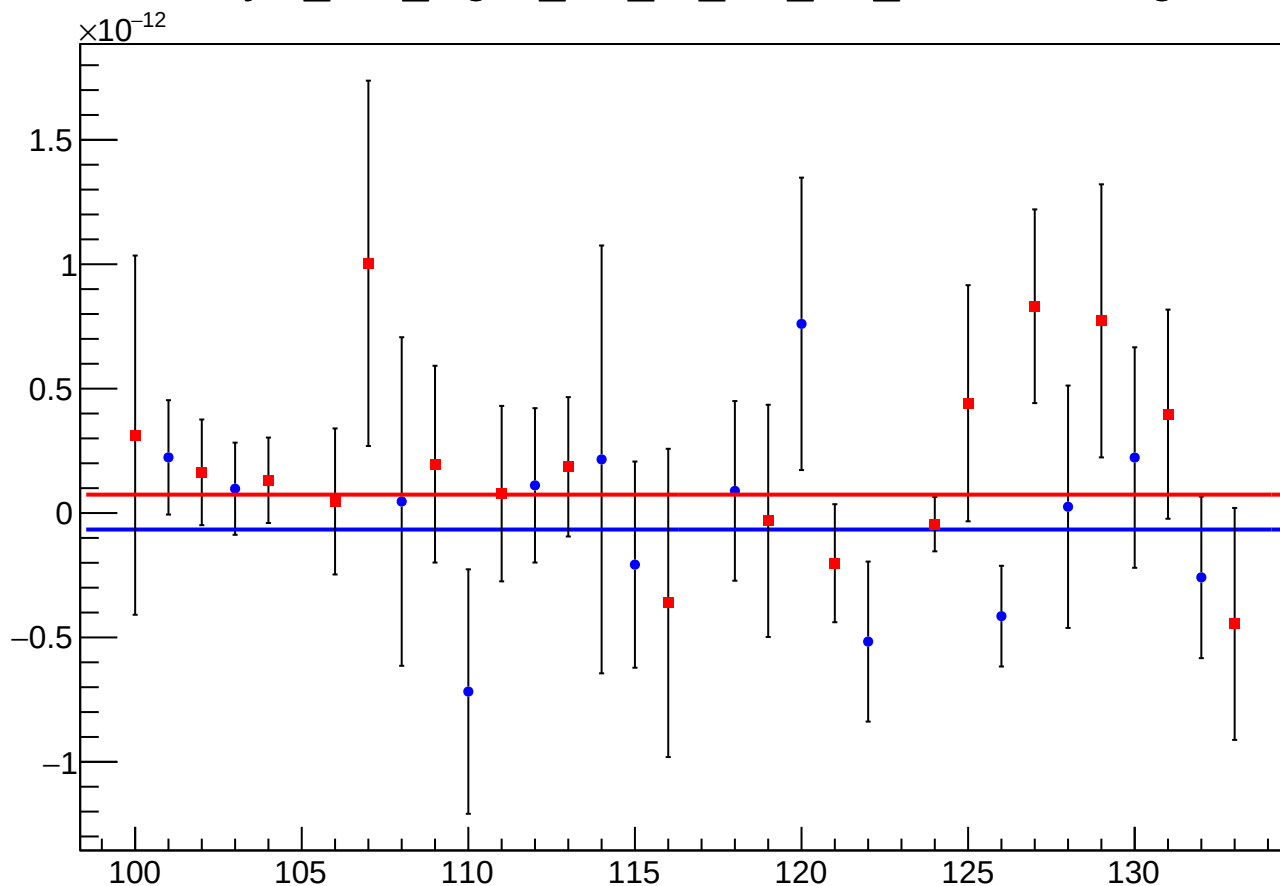
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 221.191+/-0.047  $\chi^2/\text{NDF}$ : 771109.5/29

- 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+/-0.000  $\chi^2$ /NDF: 12.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 13.2/16

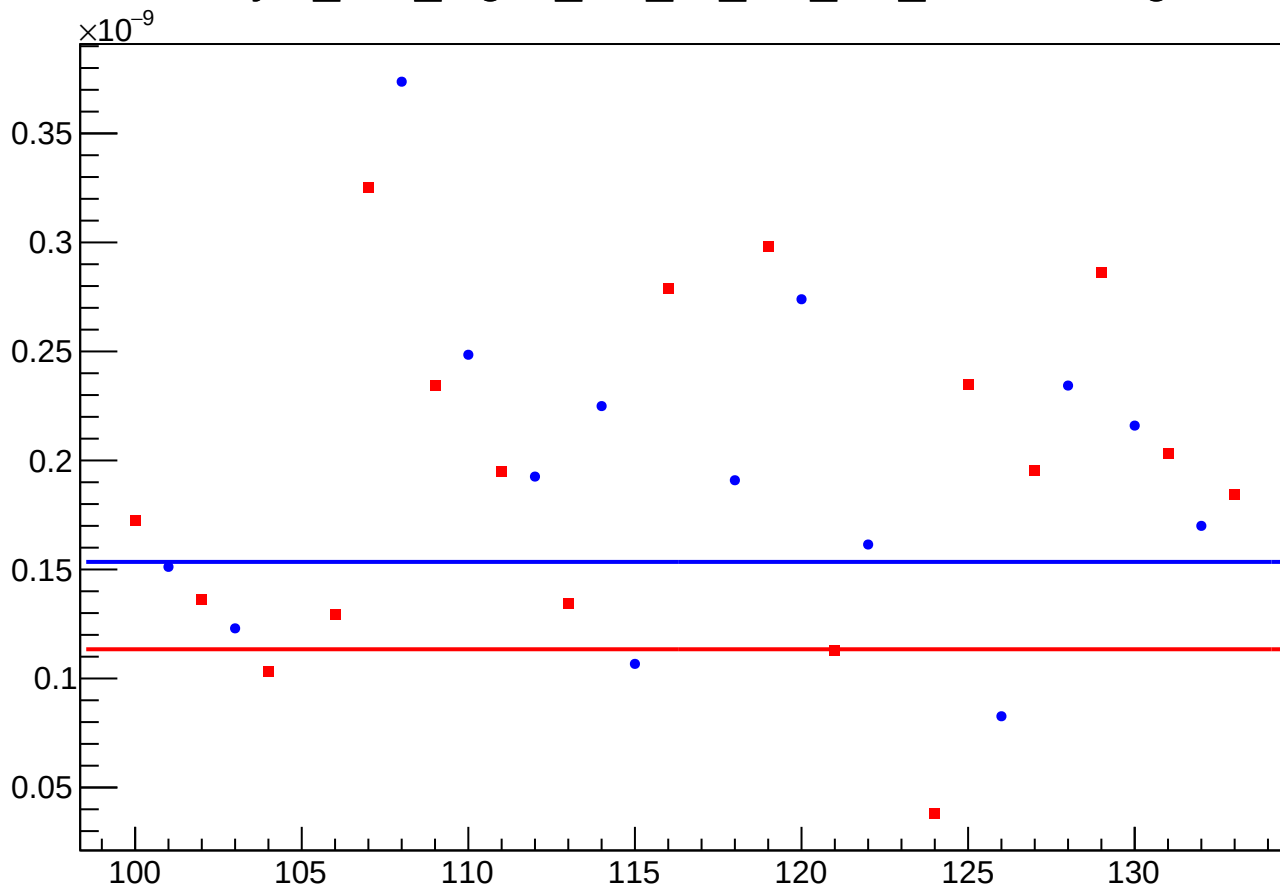
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 27.5/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl2\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 874333.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 2483556.5/16

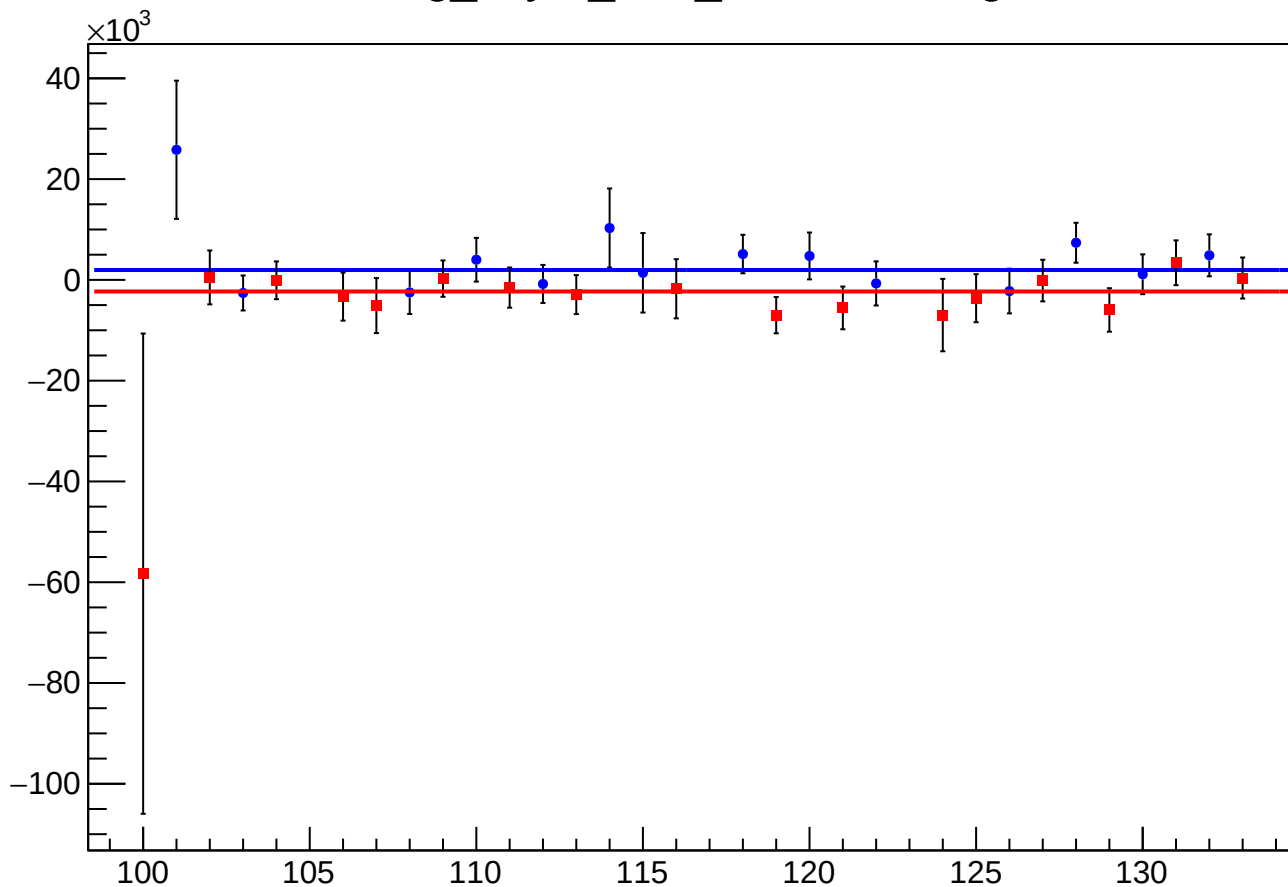
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 3632506.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1\_mean vs Slug



Right In: 1958.296 $\pm$ 1193.758  $\chi^2$ /NDF: 12.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2303.200 $\pm$ 1091.583  $\chi^2$ /NDF: 8.7/16

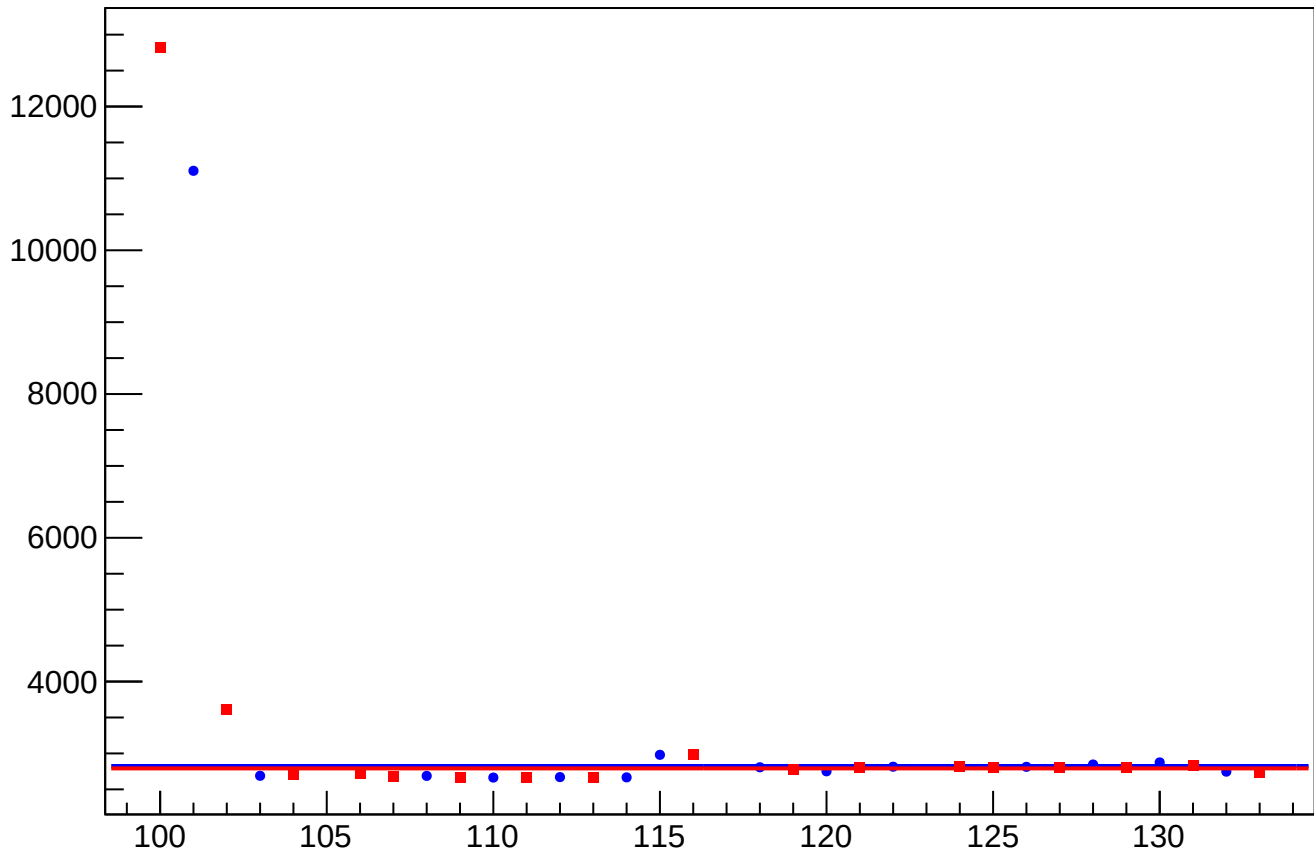
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -362.599 $\pm$ 805.570  $\chi^2$ /NDF: 28.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1\_rms vs Slug



Right In: 2825.143+/-0.844  $\chi^2/\text{NDF}$ : 743412.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2791.599+/-0.772  $\chi^2/\text{NDF}$ : 146742.6/16

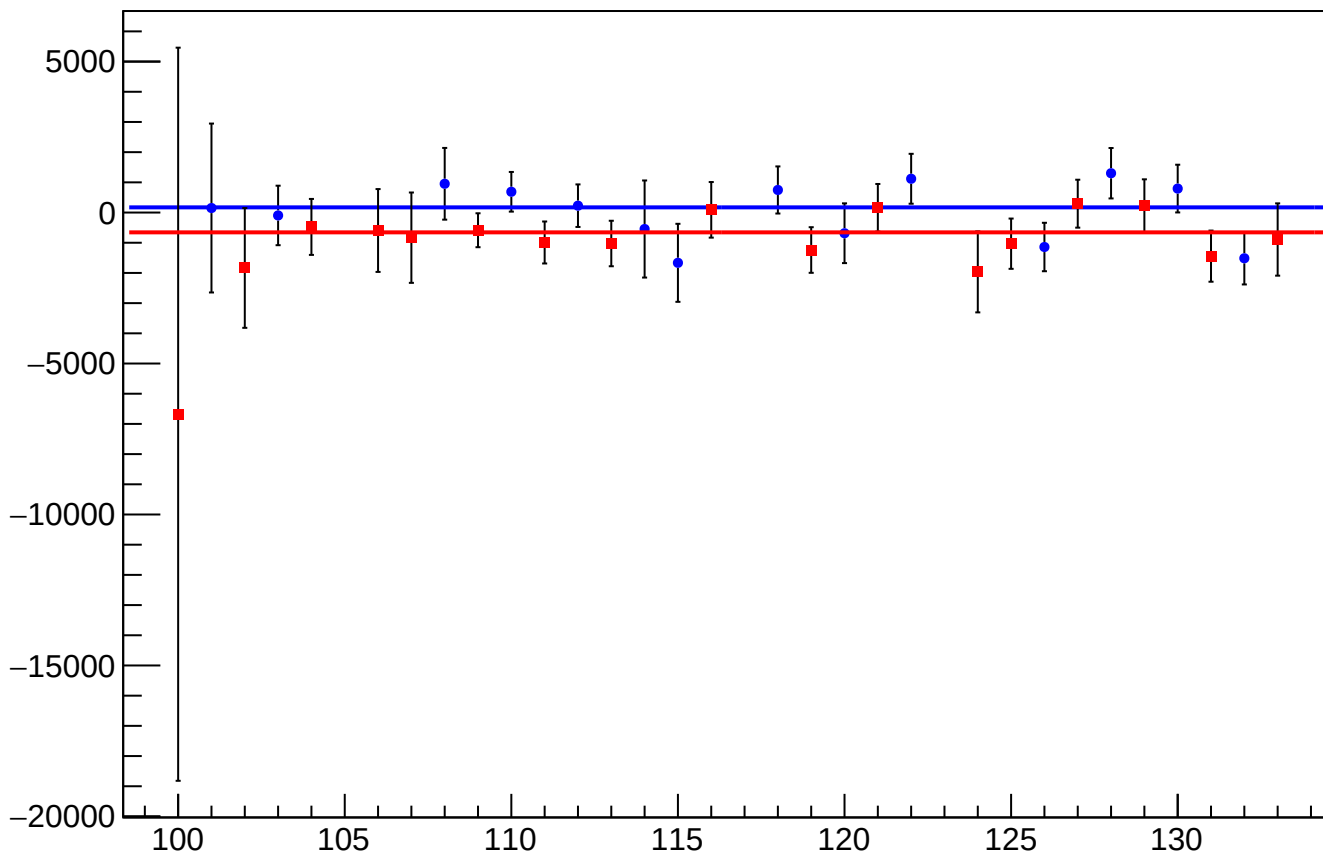
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2806.874+/-0.570  $\chi^2/\text{NDF}$ : 891015.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_reg\_correction\_mean vs Slug



Right In: 171.806 $\pm$ 240.886  $\chi^2$ /NDF: 14.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -655.997 $\pm$ 218.565  $\chi^2$ /NDF: 8.0/16

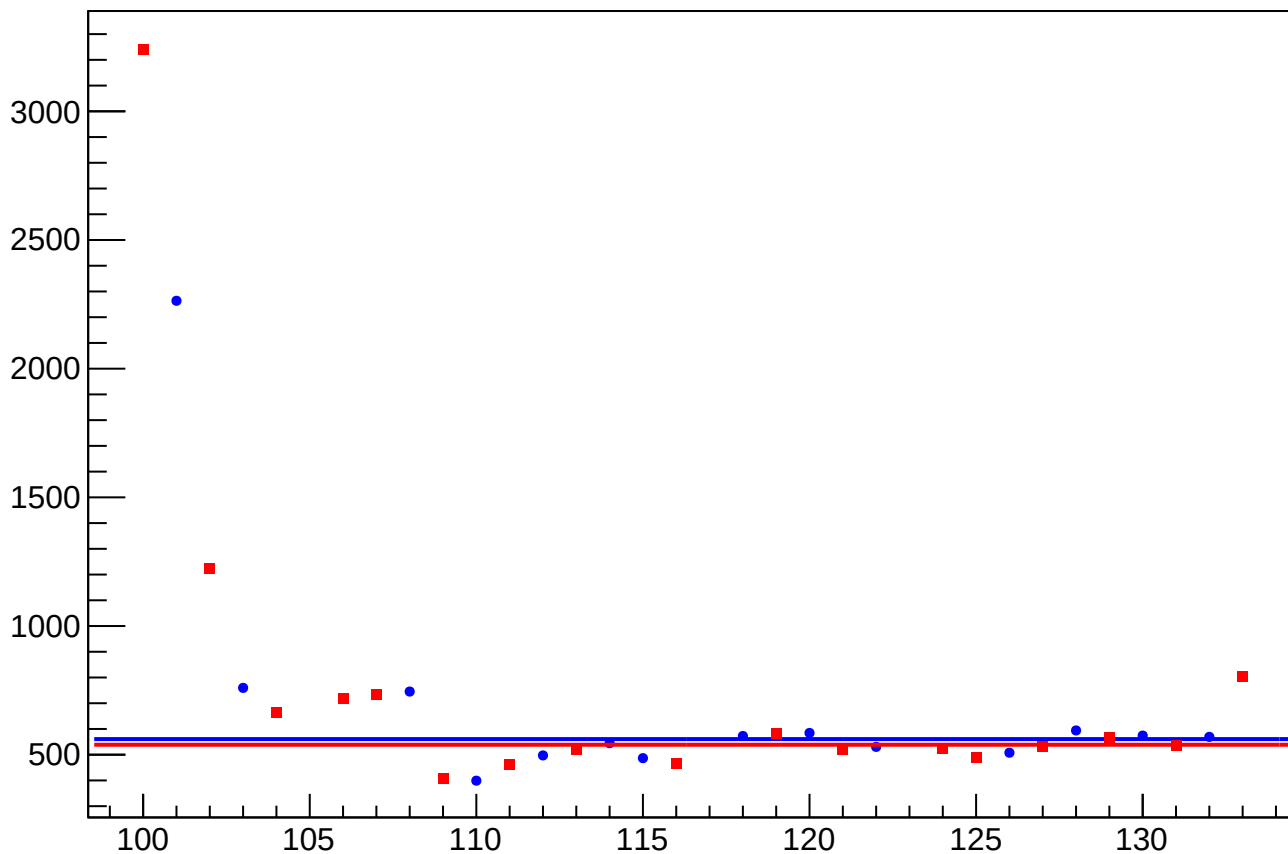
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -282.217 $\pm$ 161.866  $\chi^2$ /NDF: 29.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_reg\_correction\_rms vs Slug



Right In: 560.668 $\pm$ 0.170  $\chi^2$ /NDF: 1032695.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 538.734 $\pm$ 0.155  $\chi^2$ /NDF: 707550.0/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

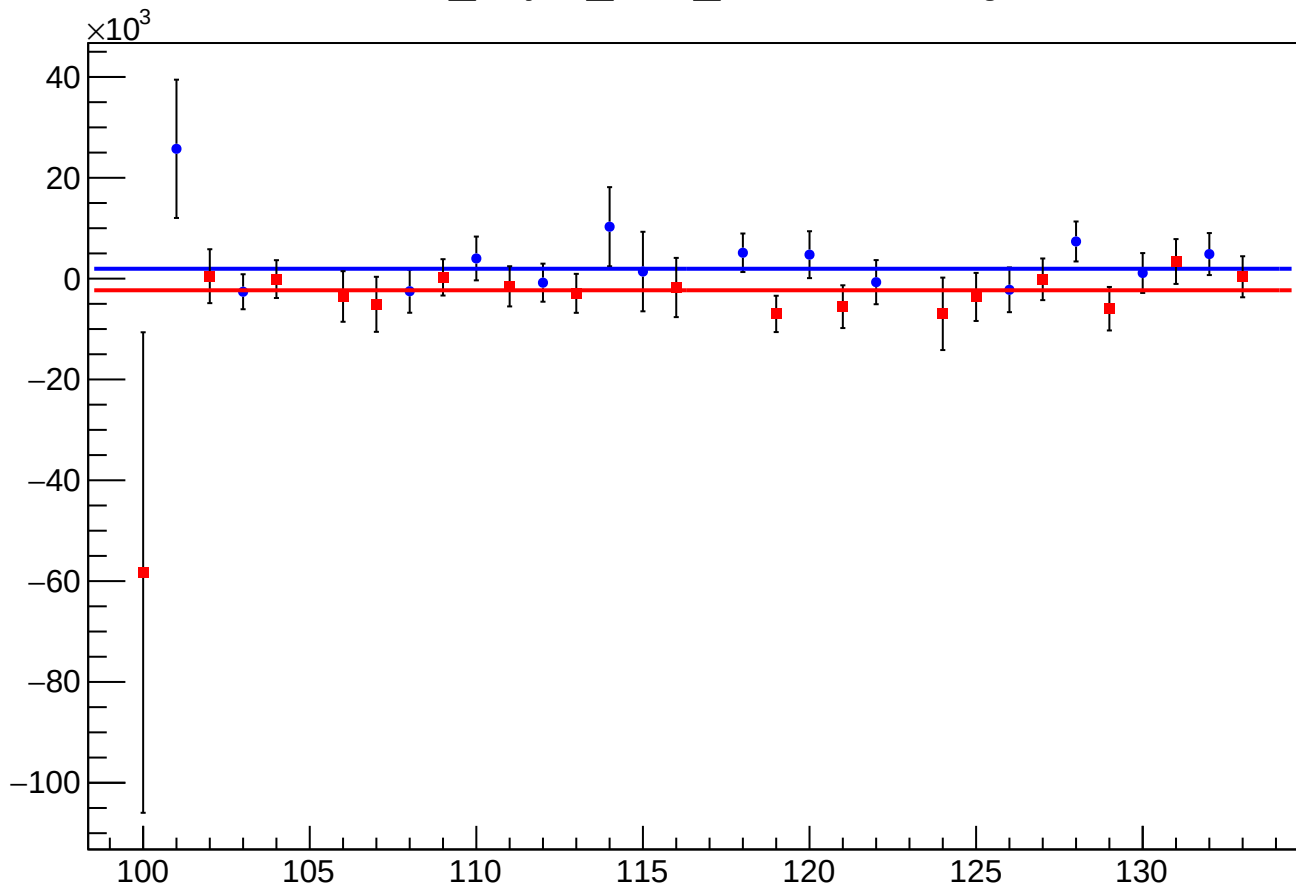
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 548.638 $\pm$ 0.114  $\chi^2$ /NDF: 1749340.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# cor\_asym\_atr1\_mean vs Slug



Right In:  $1957.361 \pm 1193.758$   $\chi^2/\text{NDF}$ : 12.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2309.421 \pm 1094.378$   $\chi^2/\text{NDF}$ : 8.8/16

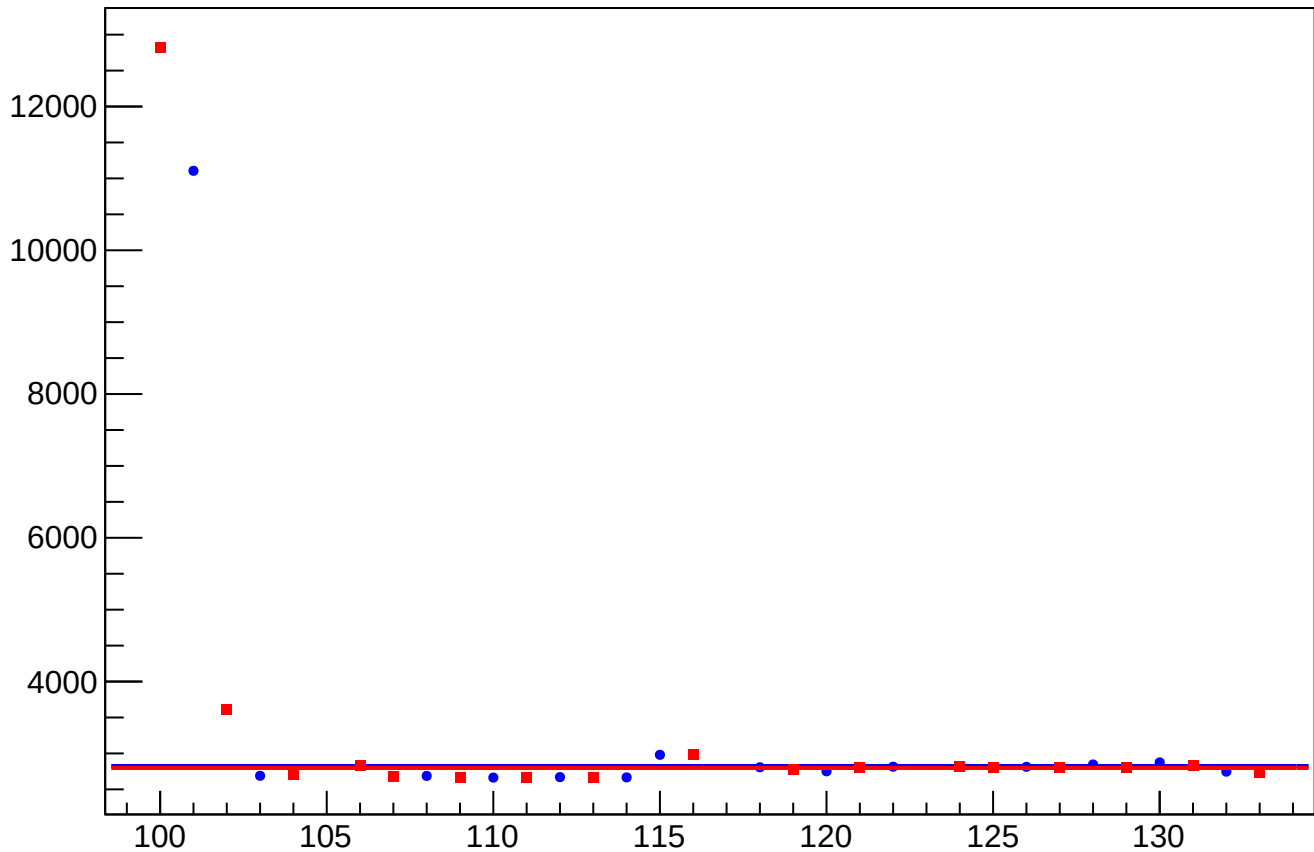
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-361.000 \pm 806.692$   $\chi^2/\text{NDF}$ : 28.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atr1\_rms vs Slug



Right In: 2825.143+/-0.844  $\chi^2/\text{NDF}$ : 743411.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2797.547+/-0.774  $\chi^2/\text{NDF}$ : 146427.2/16

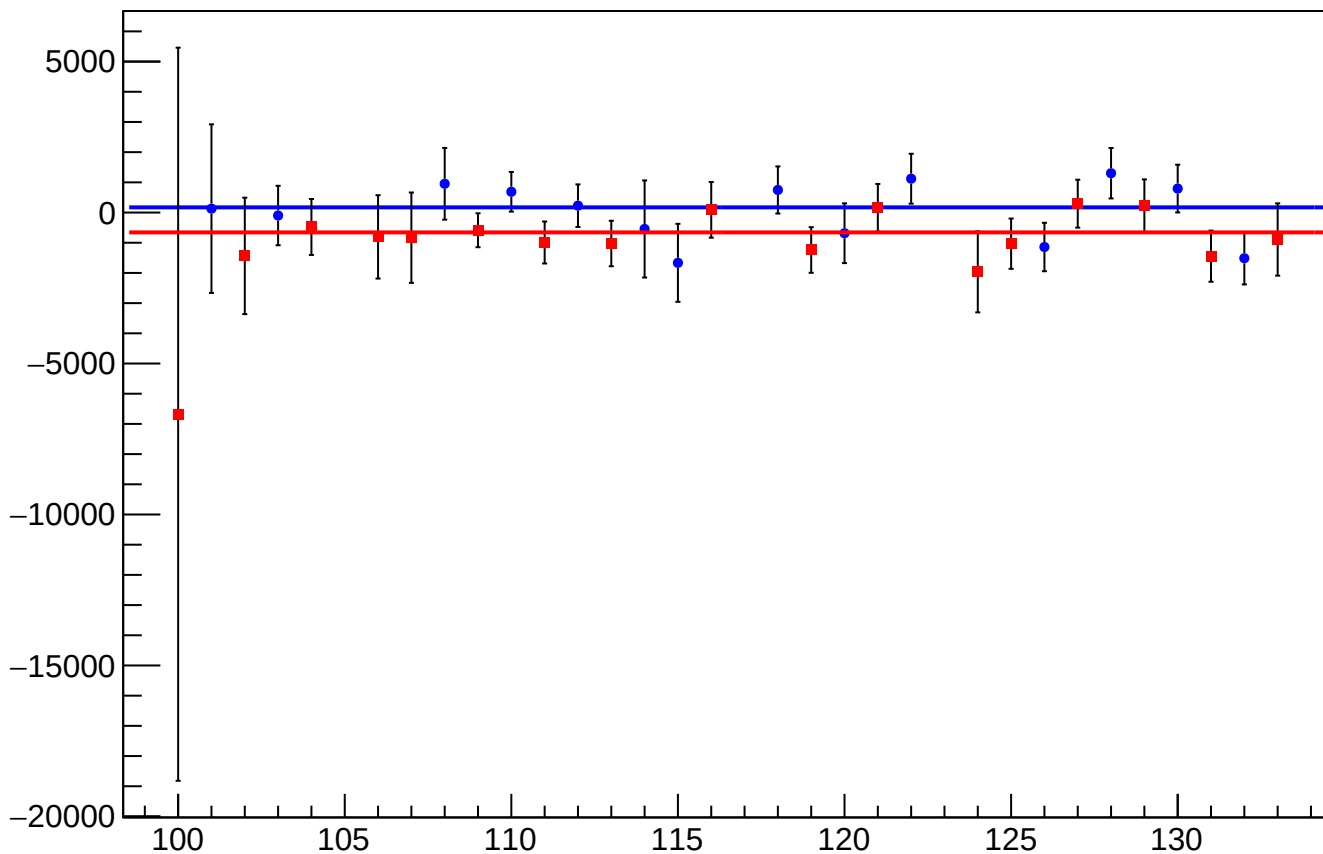
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2810.149+/-0.570  $\chi^2/\text{NDF}$ : 890419.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_cor\_correction\_mean vs Slug



Right In: 171.724+/-240.873  $\chi^2/\text{NDF}$ : 14.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -657.128+/-218.517  $\chi^2/\text{NDF}$ : 7.8/16

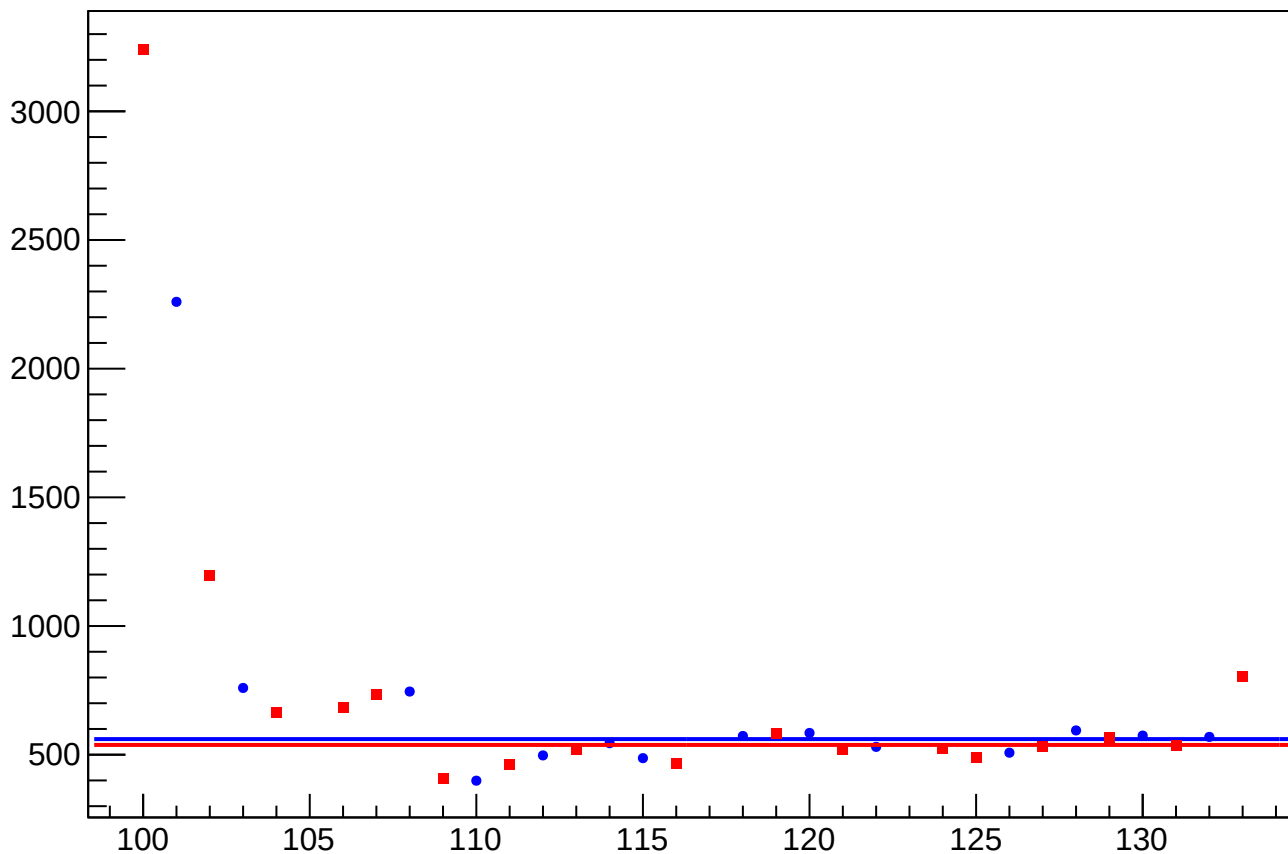
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -282.944+/-161.843  $\chi^2/\text{NDF}$ : 29.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_cor\_correction\_rms vs Slug



Right In: 560.670+/-0.170  $\chi^2/\text{NDF}$ : 1031697.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 537.973+/-0.155  $\chi^2/\text{NDF}$ : 691312.6/16

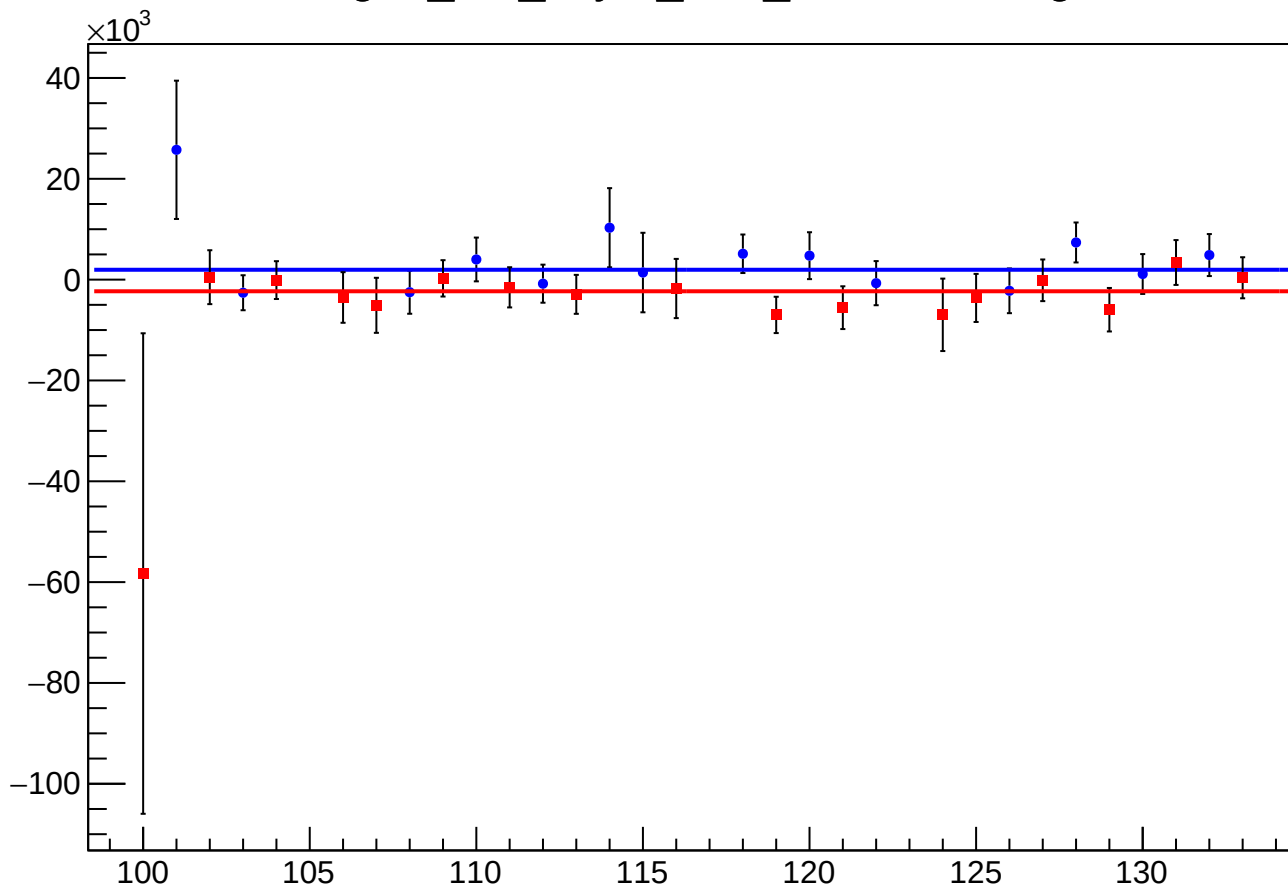
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 548.220+/-0.114  $\chi^2/\text{NDF}$ : 1732751.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr1\_mean vs Slug



Right In: 1957.361+/-1193.758  $\chi^2/\text{NDF}$ : 12.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2309.421+/-1094.378  $\chi^2/\text{NDF}$ : 8.8/16

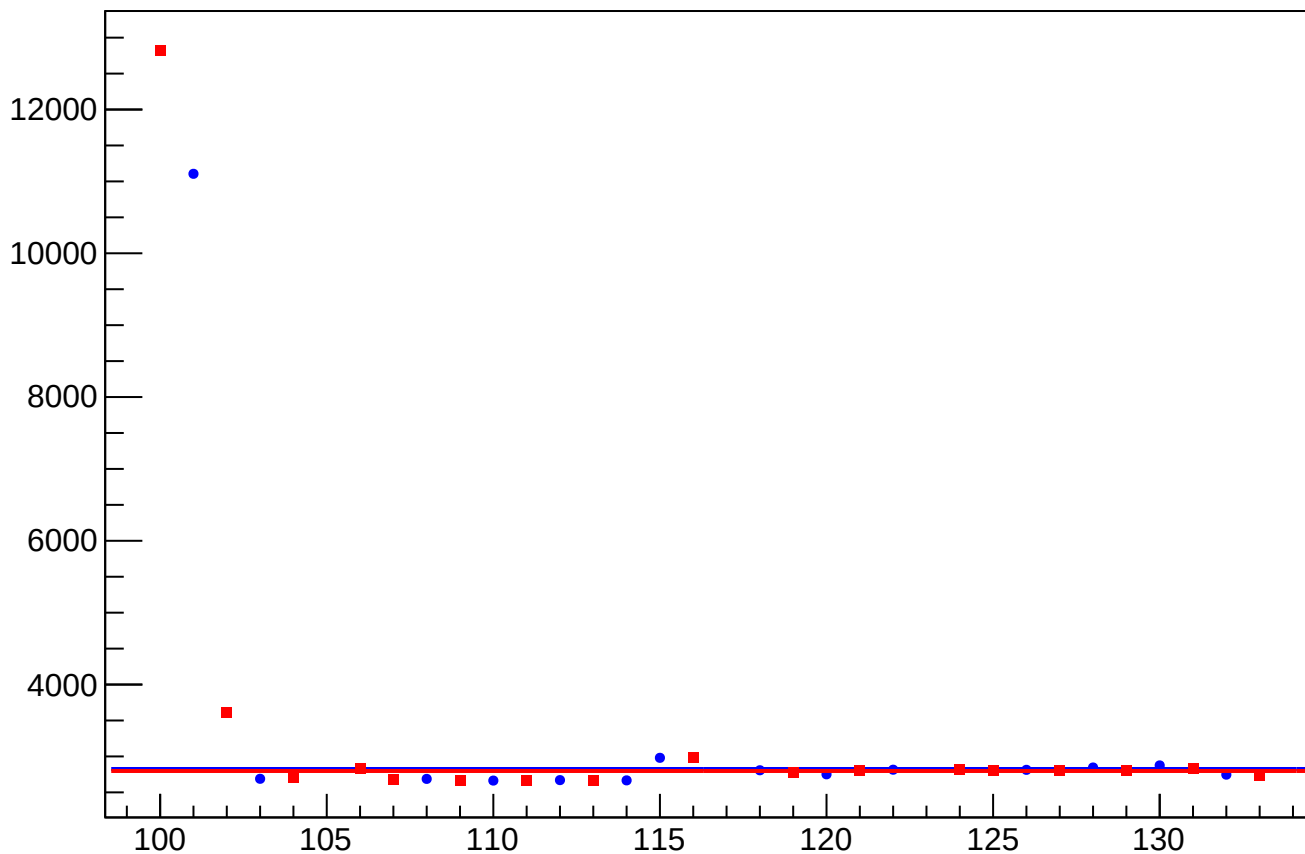
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -361.000+/-806.692  $\chi^2/\text{NDF}$ : 28.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr1\_rms vs Slug



Right In: 2825.143+/-0.844  $\chi^2/\text{NDF}$ : 743411.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2797.547+/-0.774  $\chi^2/\text{NDF}$ : 146427.2/16

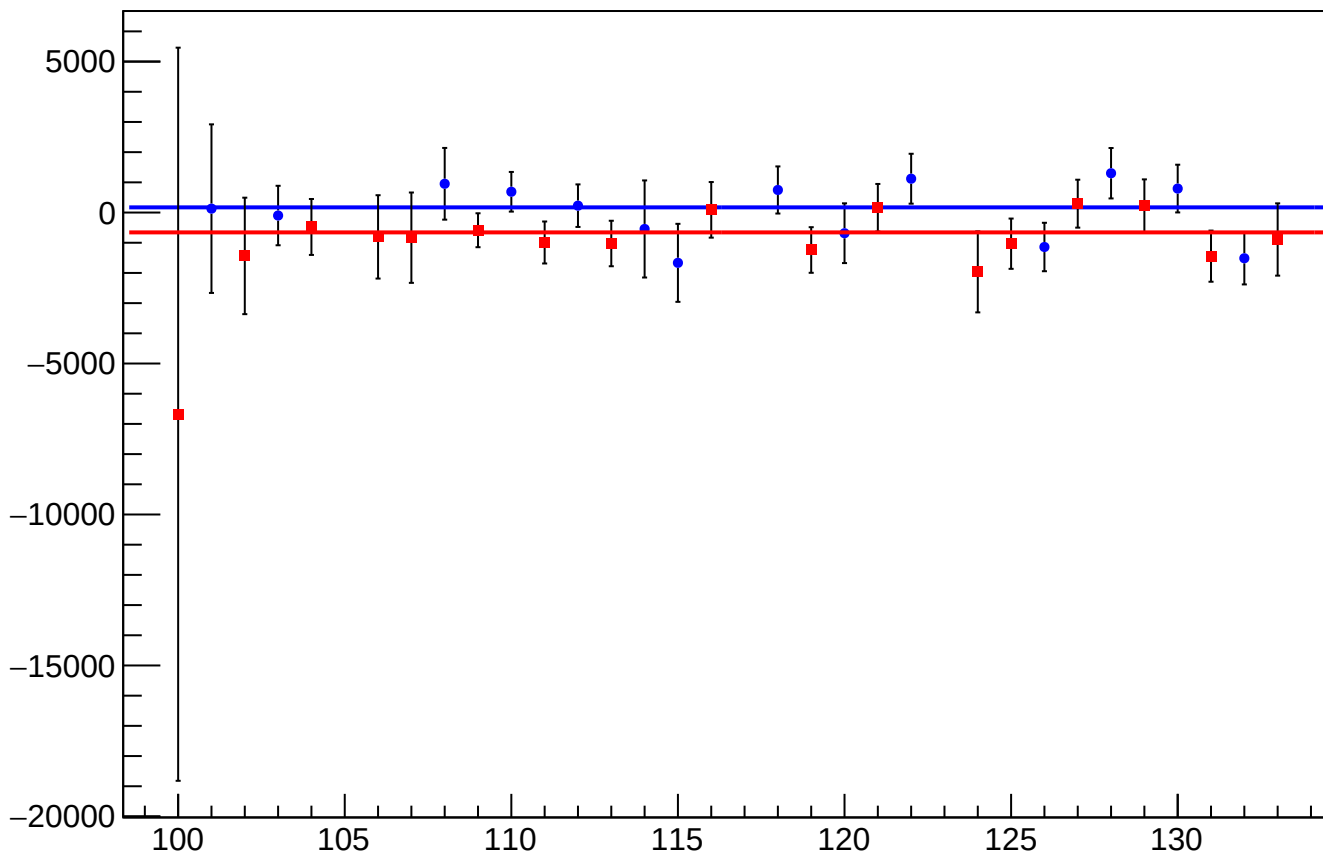
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2810.149+/-0.570  $\chi^2/\text{NDF}$ : 890419.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_cor\_correction\_mean vs Slug



Right In: 171.724+/-240.873  $\chi^2/\text{NDF}$ : 14.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -657.128+/-218.517  $\chi^2/\text{NDF}$ : 7.8/16

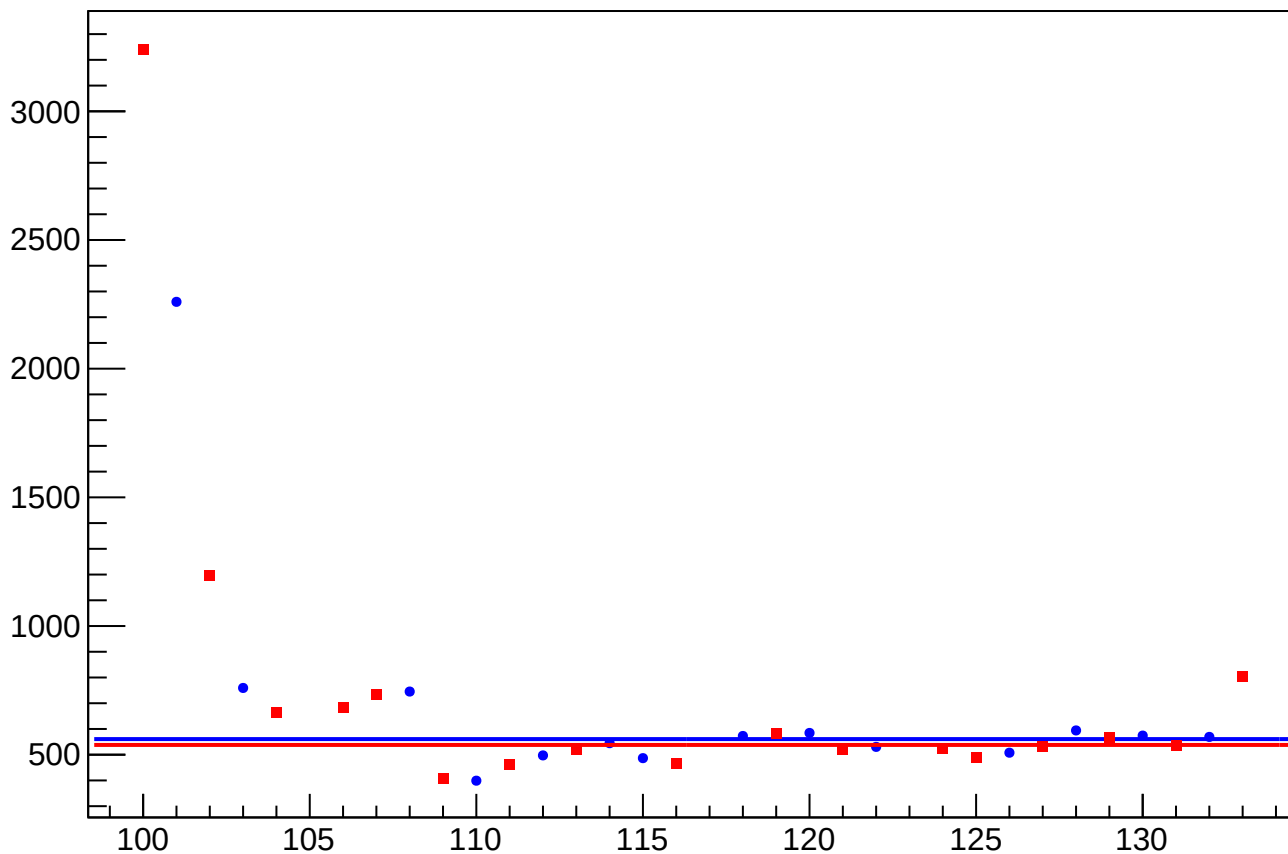
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -282.944+/-161.843  $\chi^2/\text{NDF}$ : 29.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_cor\_correction\_rms vs Slug



Right In: 560.670+/-0.170  $\chi^2/\text{NDF}$ : 1031697.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 537.973+/-0.155  $\chi^2/\text{NDF}$ : 691312.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

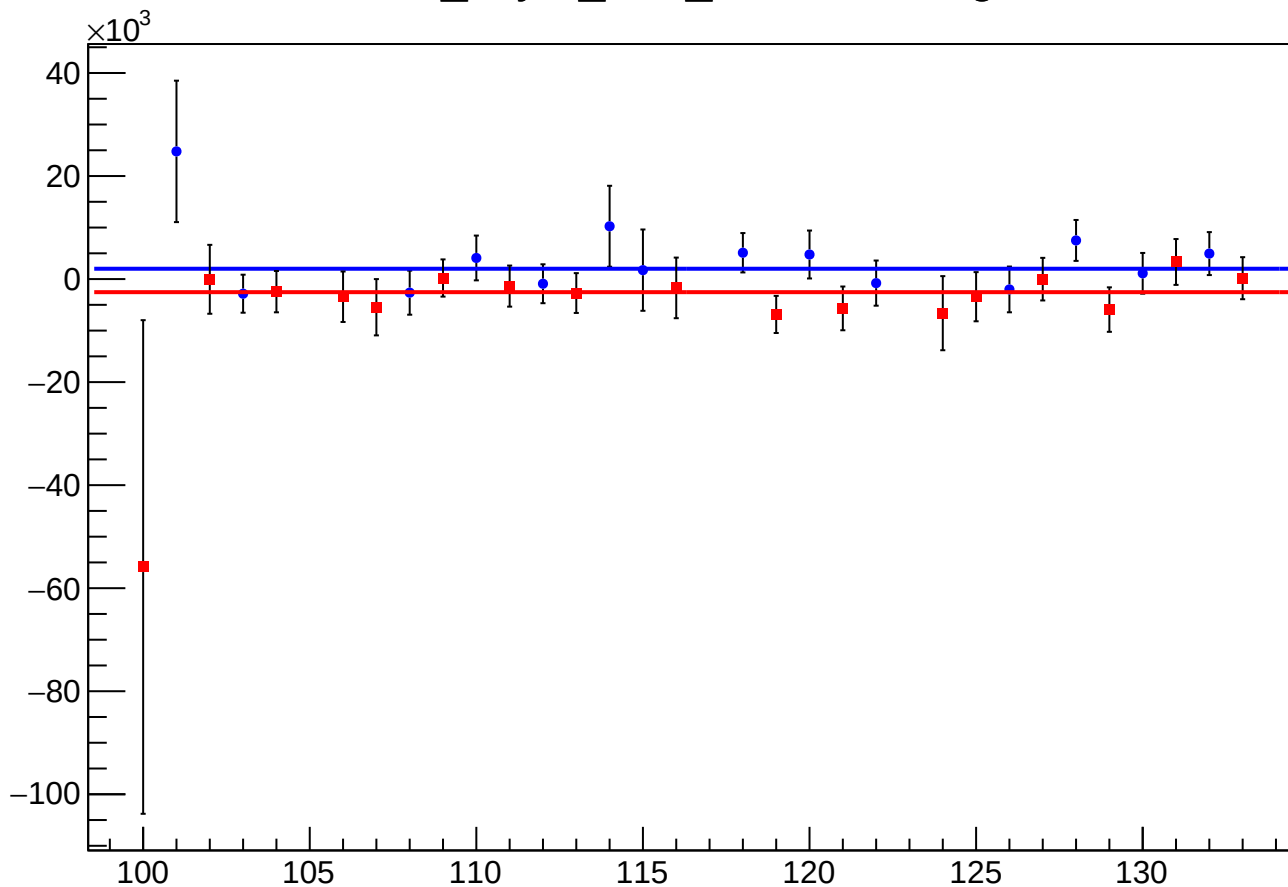
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 548.220+/-0.114  $\chi^2/\text{NDF}$ : 1732751.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_atr1\_mean vs Slug



Right In: 2005.164 $\pm$ 1202.819  $\chi^2$ /NDF: 12.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2540.353 $\pm$ 1108.280  $\chi^2$ /NDF: 7.9/16

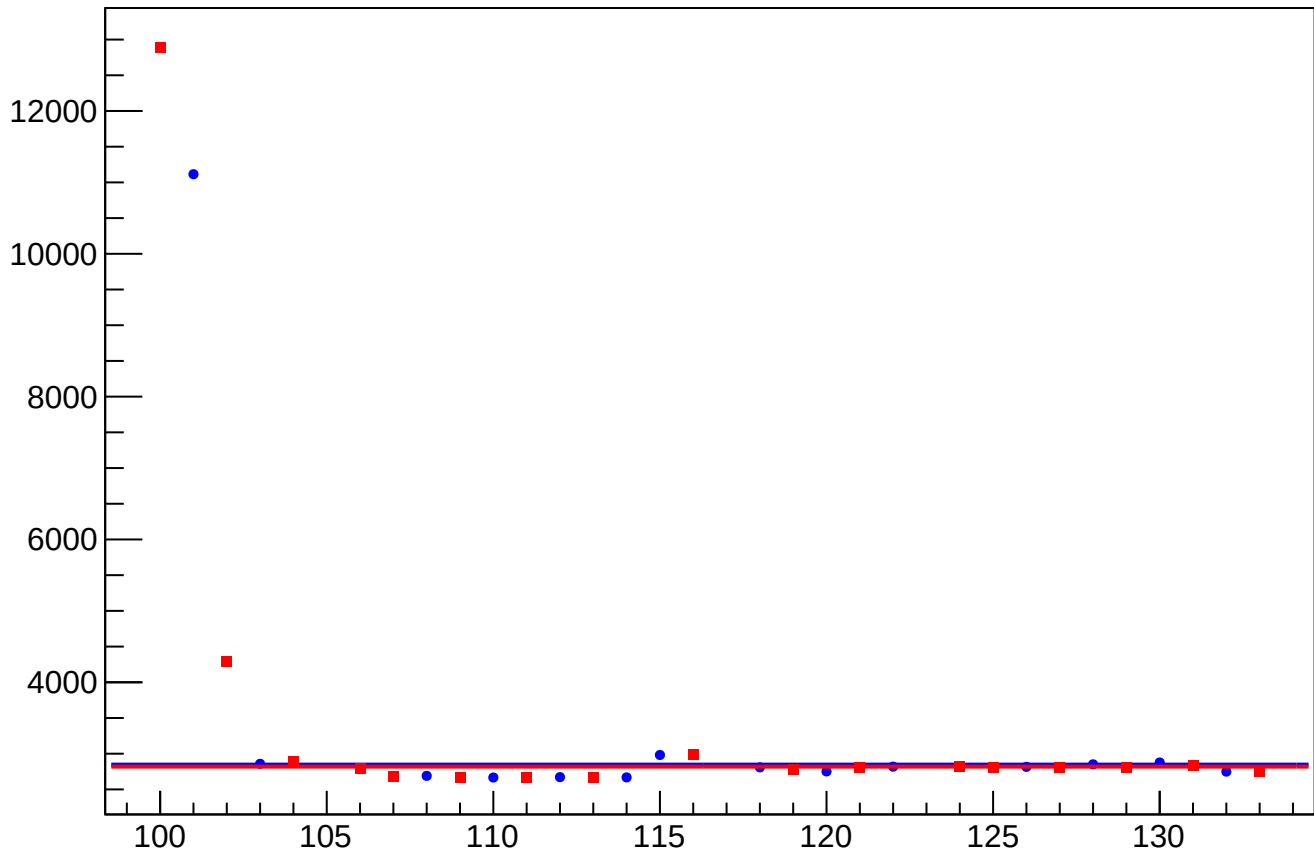
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -453.226 $\pm$ 815.048  $\chi^2$ /NDF: 27.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atr1\_rms vs Slug



Right In: 2846.989 $\pm$ 0.851  $\chi^2$ /NDF: 740006.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2819.011 $\pm$ 0.784  $\chi^2$ /NDF: 199987.6/16

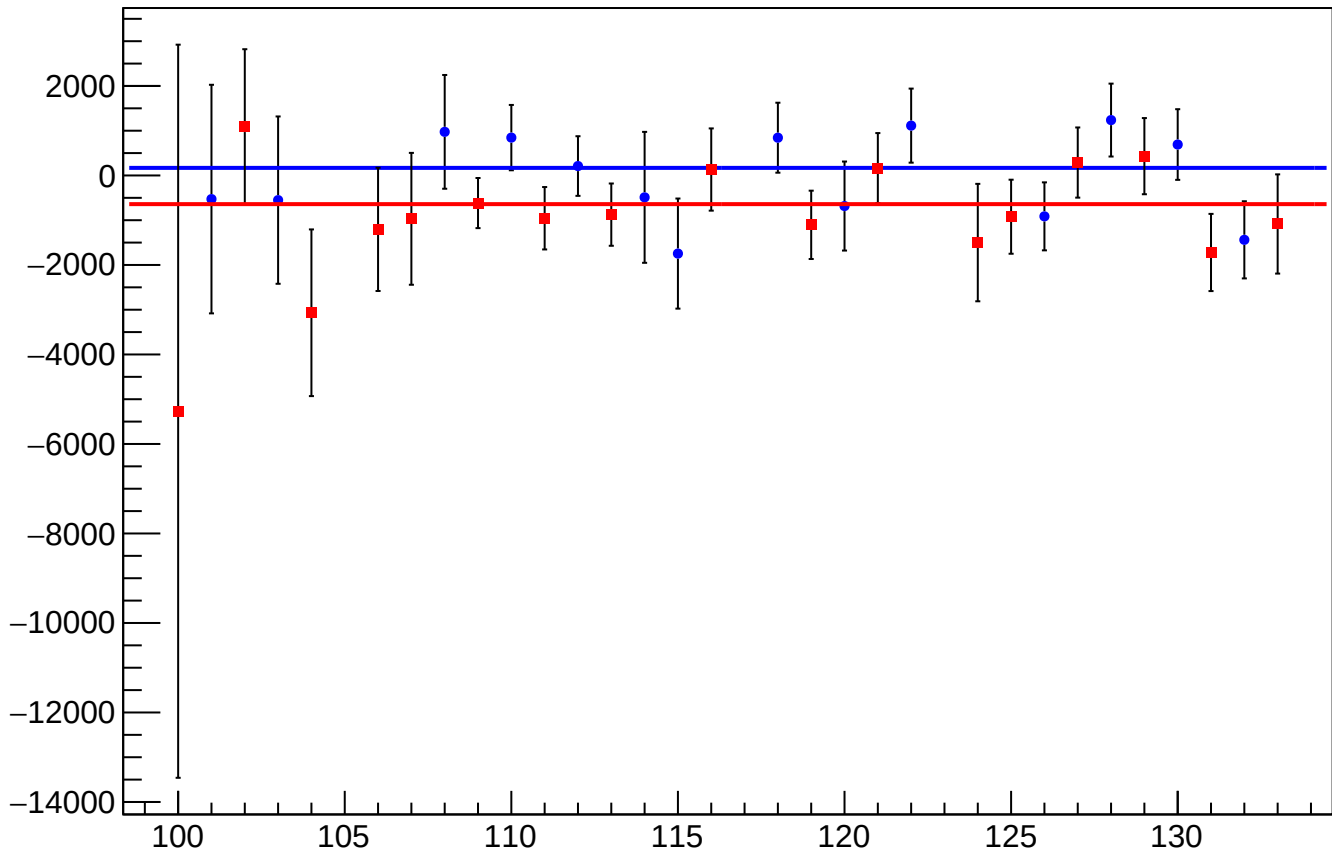
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2831.857 $\pm$ 0.576  $\chi^2$ /NDF: 940579.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_dit\_correction\_mean vs Slug



Right In: 169.410 $\pm$ 245.338  $\chi^2$ /NDF: 14.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -640.680 $\pm$ 219.928  $\chi^2$ /NDF: 10.9/16

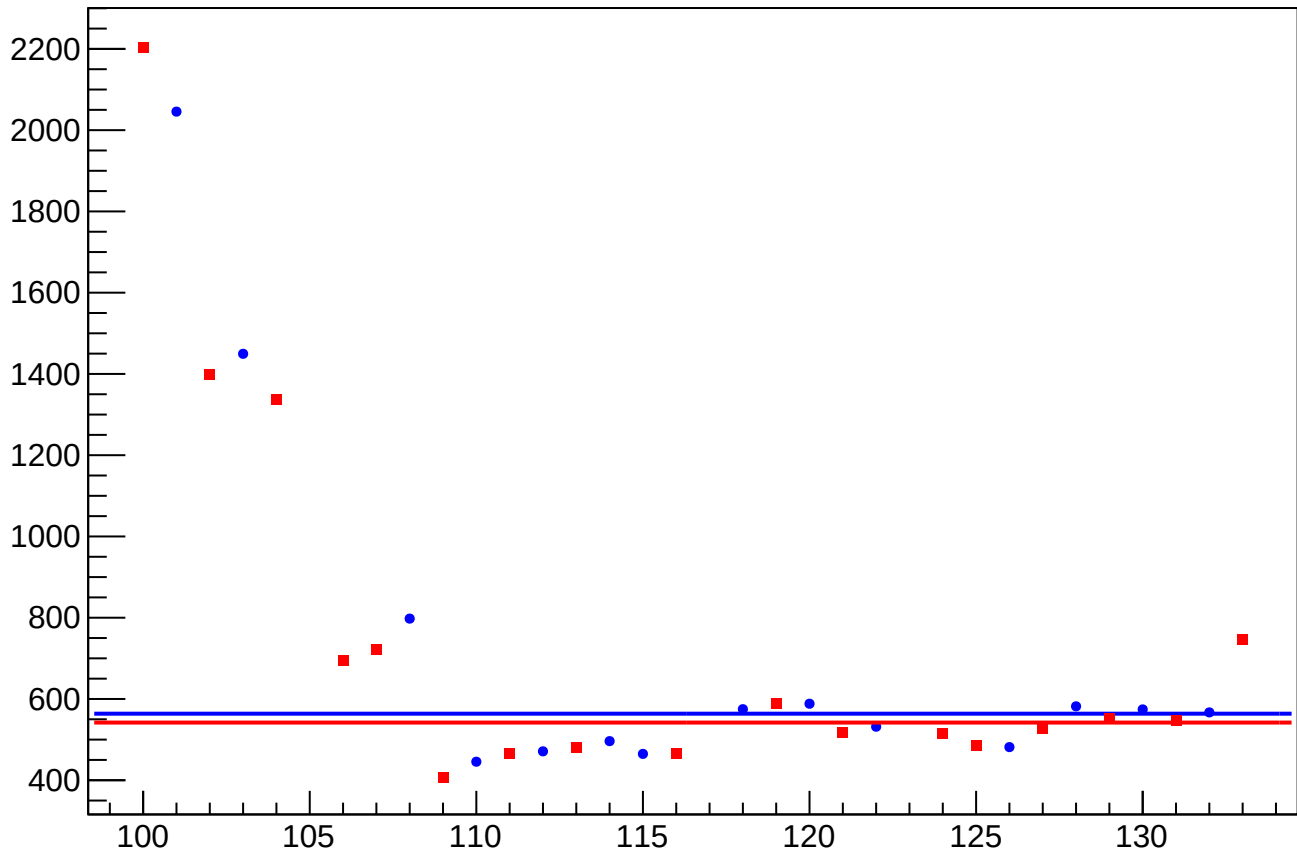
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -279.746 $\pm$ 163.762  $\chi^2$ /NDF: 31.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_dit\_correction\_rms vs Slug



Right In: 563.794+/-0.173  $\chi^2/\text{NDF}$ : 1327783.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 541.953+/-0.156  $\chi^2/\text{NDF}$ : 1246190.3/16

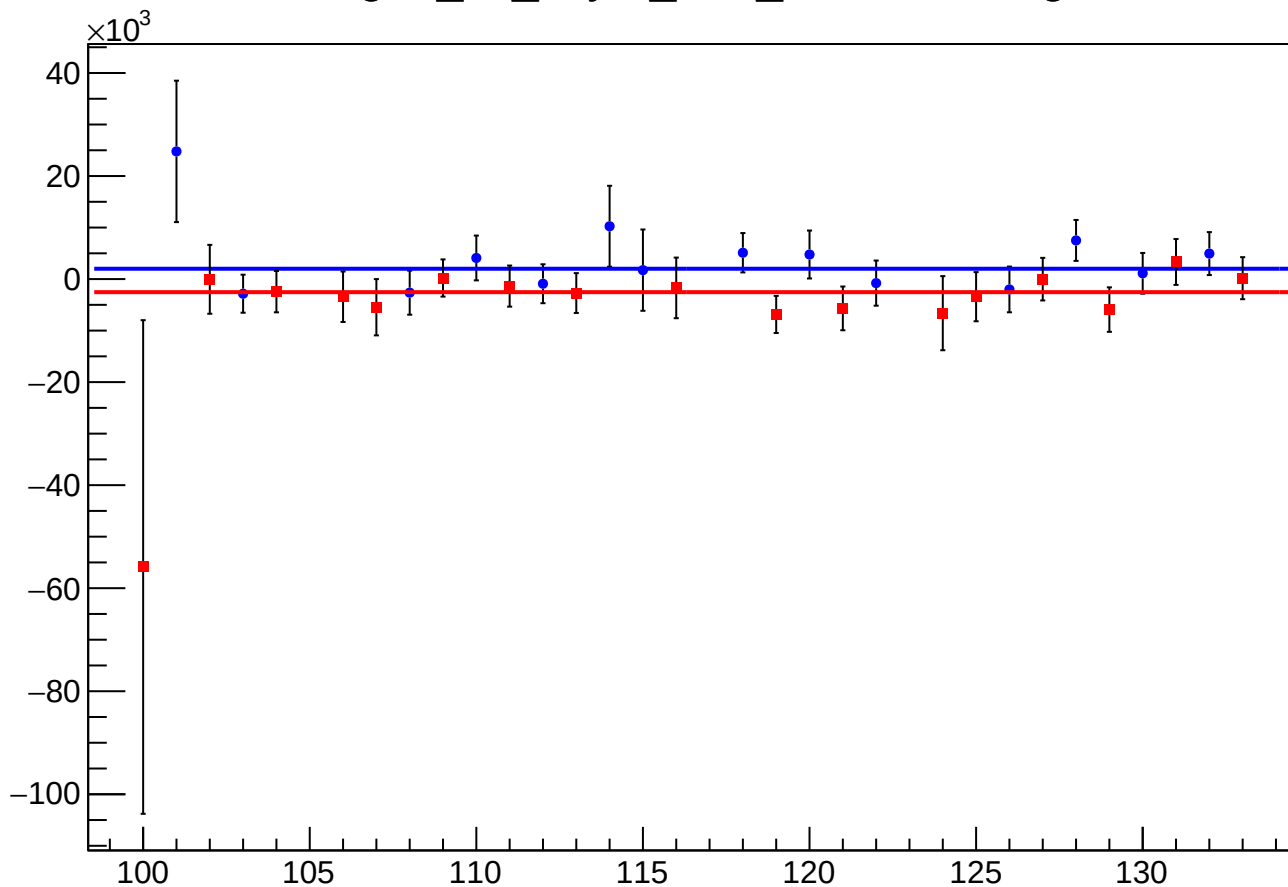
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 551.684+/-0.116  $\chi^2/\text{NDF}$ : 2582762.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atr1\_mean vs Slug



Right In: 2005.164+/-1202.819  $\chi^2/\text{NDF}$ : 12.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2540.351+/-1108.280  $\chi^2/\text{NDF}$ : 7.9/16

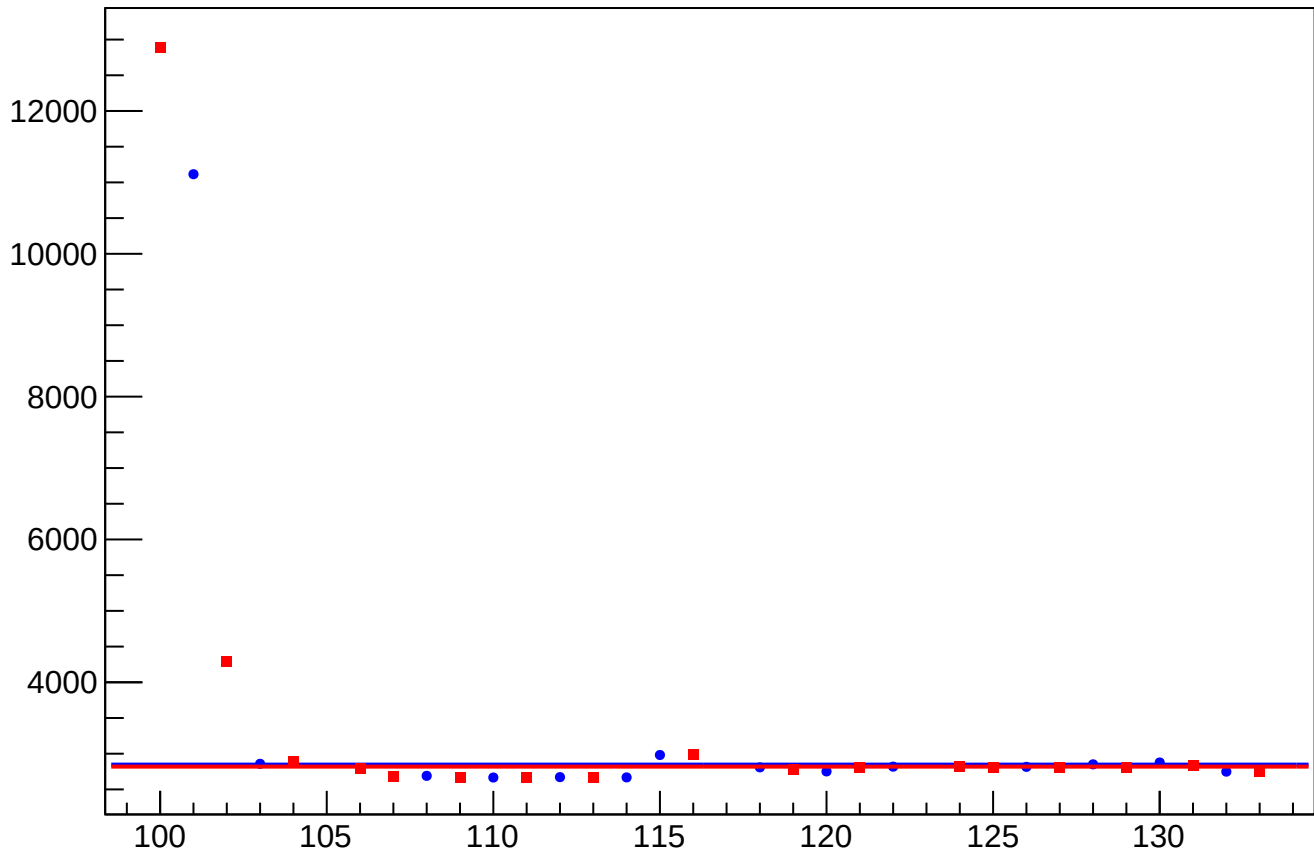
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -453.225+/-815.048  $\chi^2/\text{NDF}$ : 27.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atr1\_rms vs Slug



Right In: 2846.989 $\pm$ 0.851  $\chi^2$ /NDF: 740006.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2819.011 $\pm$ 0.784  $\chi^2$ /NDF: 199987.4/16

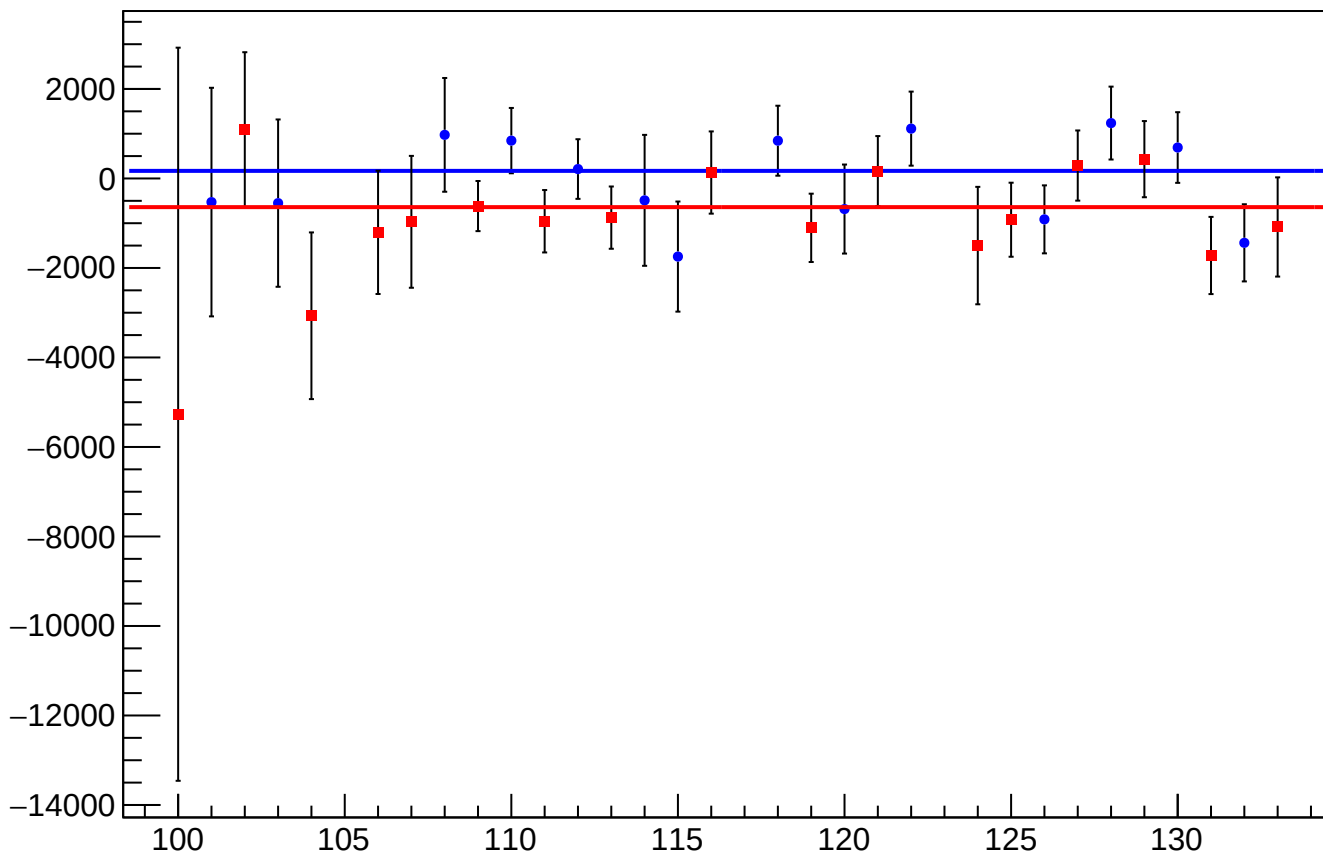
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2831.857 $\pm$ 0.576  $\chi^2$ /NDF: 940579.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_eigen\_dit\_correction\_mean vs Slug



Right In: 169.411+/-245.338  $\chi^2/\text{NDF}$ : 14.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -640.680+/-219.928  $\chi^2/\text{NDF}$ : 10.9/16

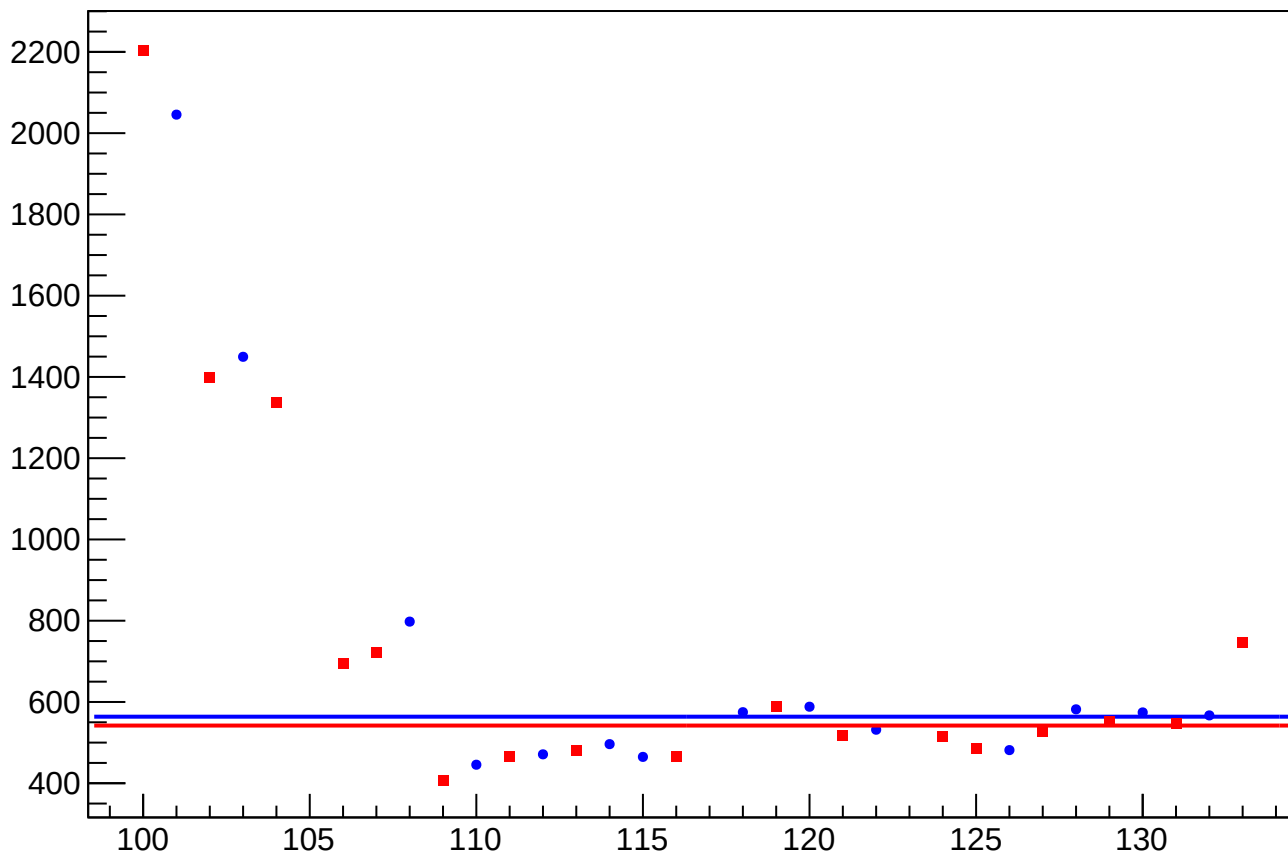
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -279.746+/-163.762  $\chi^2/\text{NDF}$ : 31.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_dit\_correction\_rms vs Slug



Right In: 563.794+/-0.173  $\chi^2/\text{NDF}$ : 1327777.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 541.953+/-0.156  $\chi^2/\text{NDF}$ : 1246186.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

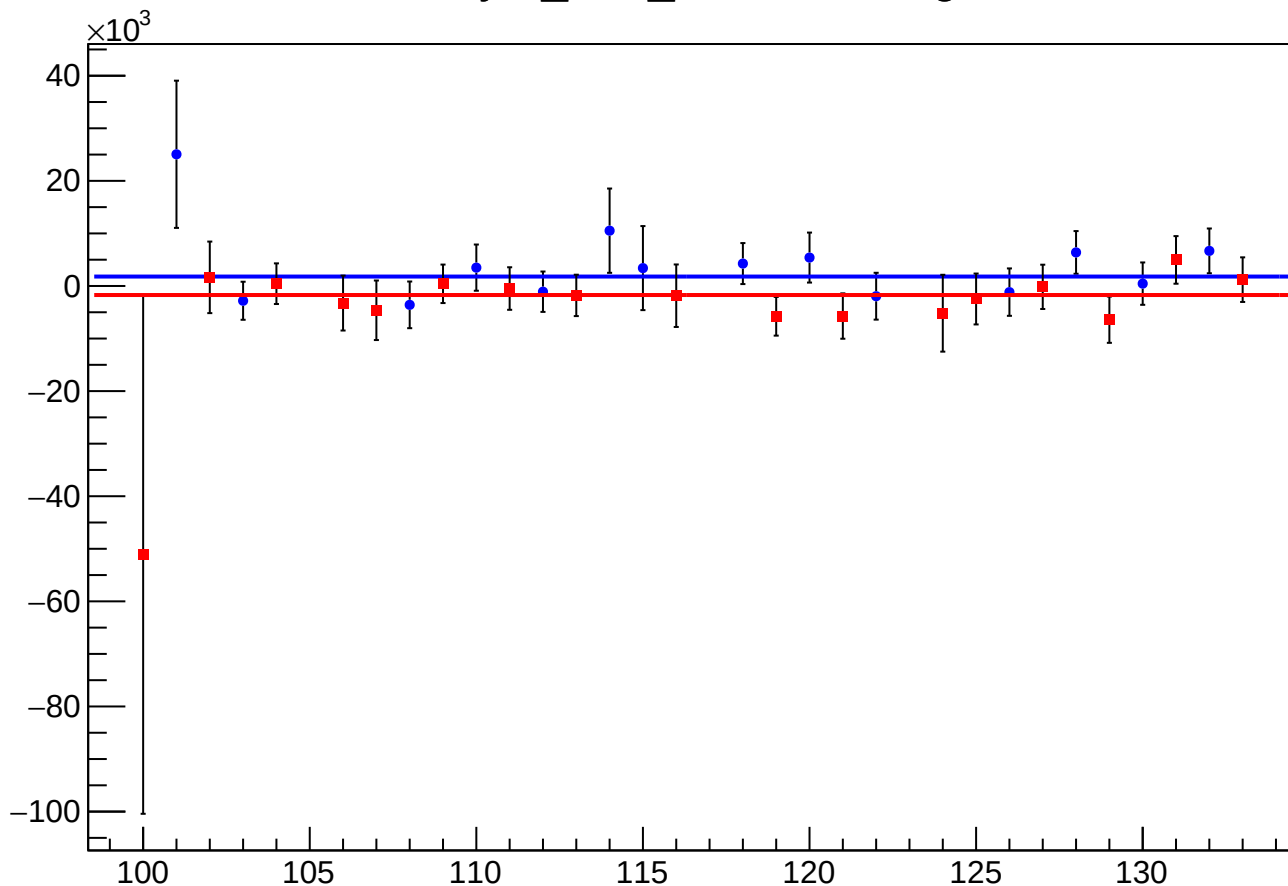
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 551.685+/-0.116  $\chi^2/\text{NDF}$ : 2582752.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atr1\_mean vs Slug



Right In: 1794.068 $\pm$ 1221.865  $\chi^2$ /NDF: 12.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1720.301 $\pm$ 1127.881  $\chi^2$ /NDF: 8.6/16

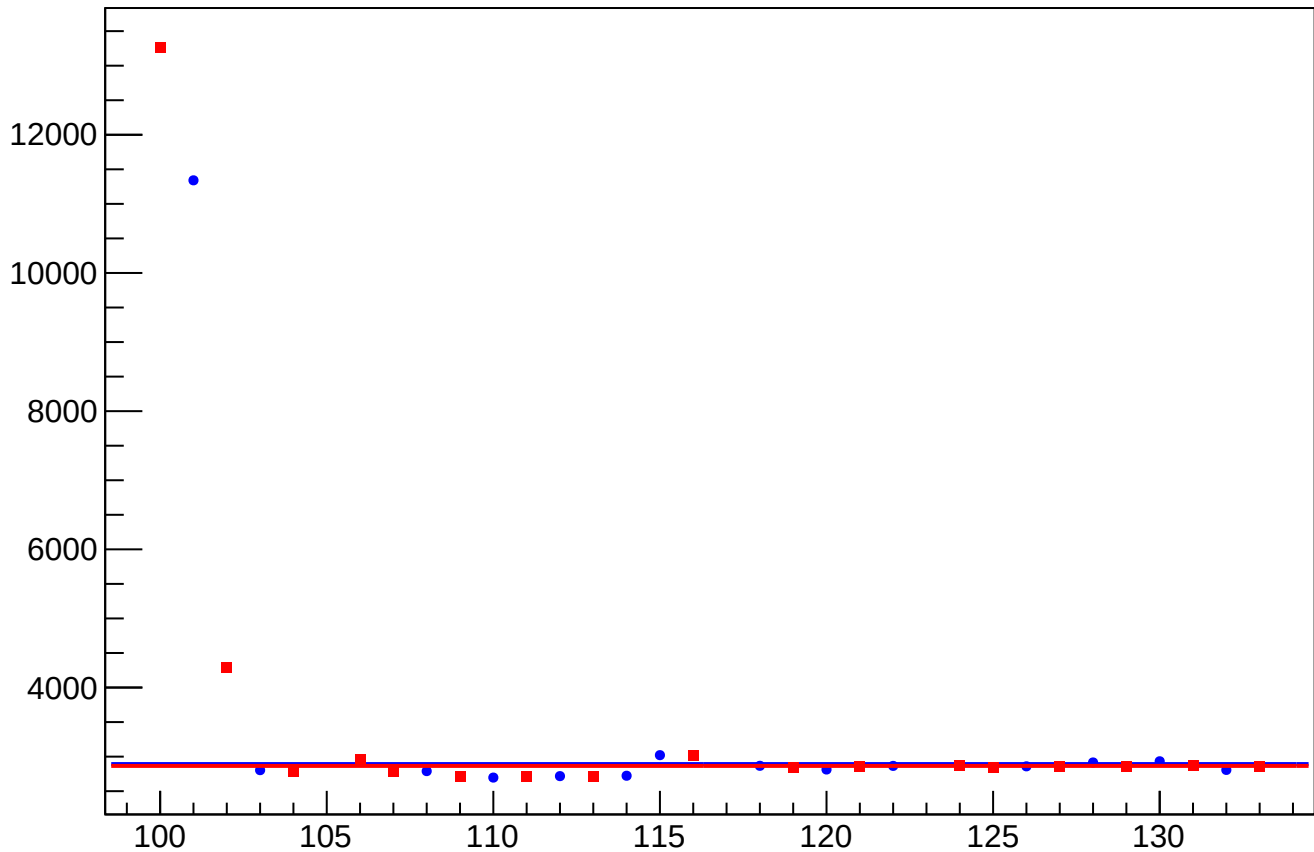
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -103.458 $\pm$ 828.769  $\chi^2$ /NDF: 25.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_rms vs Slug



Right In: 2892.048 $\pm$ 0.864  $\chi^2$ /NDF: 741357.1/13

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

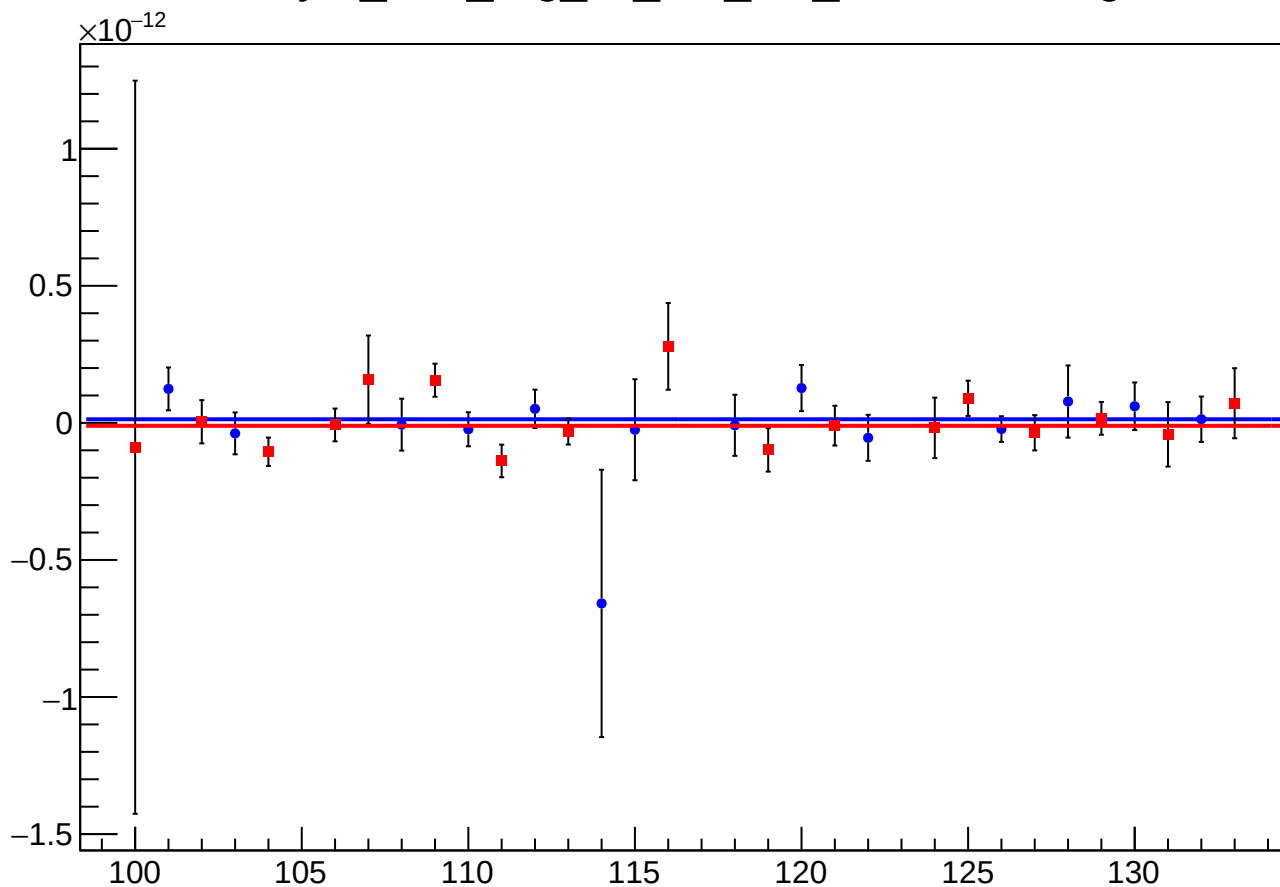
Right Out: 2865.801 $\pm$ 0.798  $\chi^2$ /NDF: 190255.9/16

All: 2877.876 $\pm$ 0.586  $\chi^2$ /NDF: 932111.3/30

- 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\_atr1\_reg\_vs\_cor\_diff\_mean vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 8.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 24.8/16

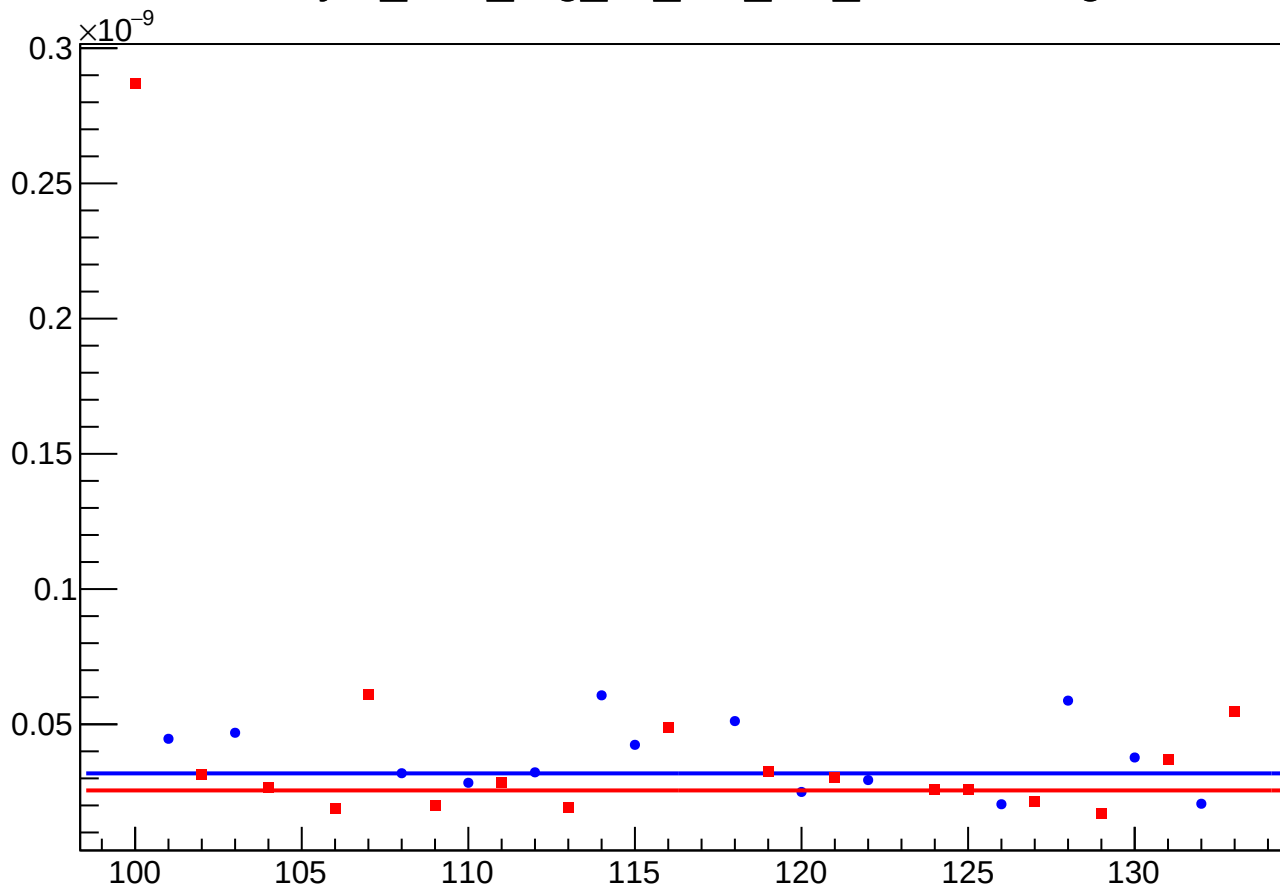
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 34.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 474526.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 508453.1/16

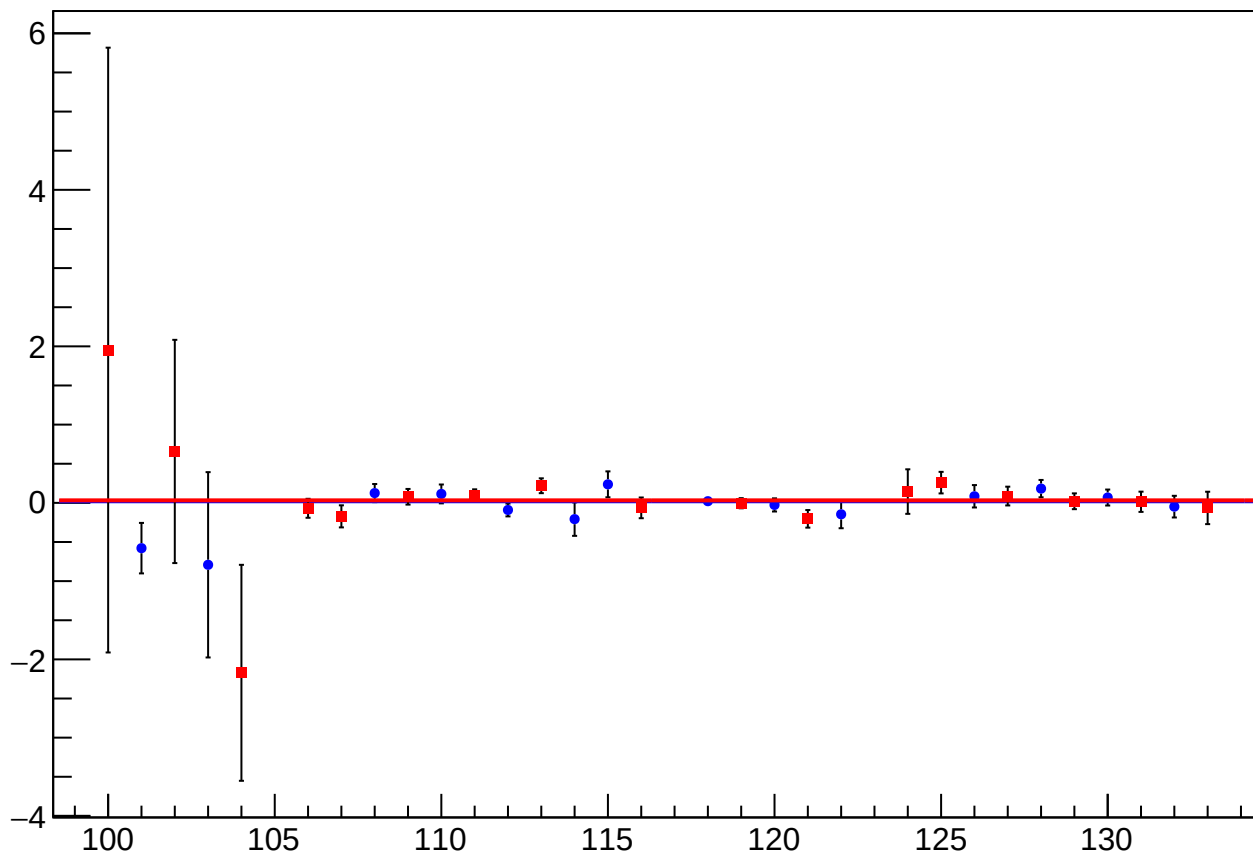
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1083987.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.021+/-0.029  $\chi^2/\text{NDF}$ : 14.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.032+/-0.029  $\chi^2/\text{NDF}$ : 19.3/16

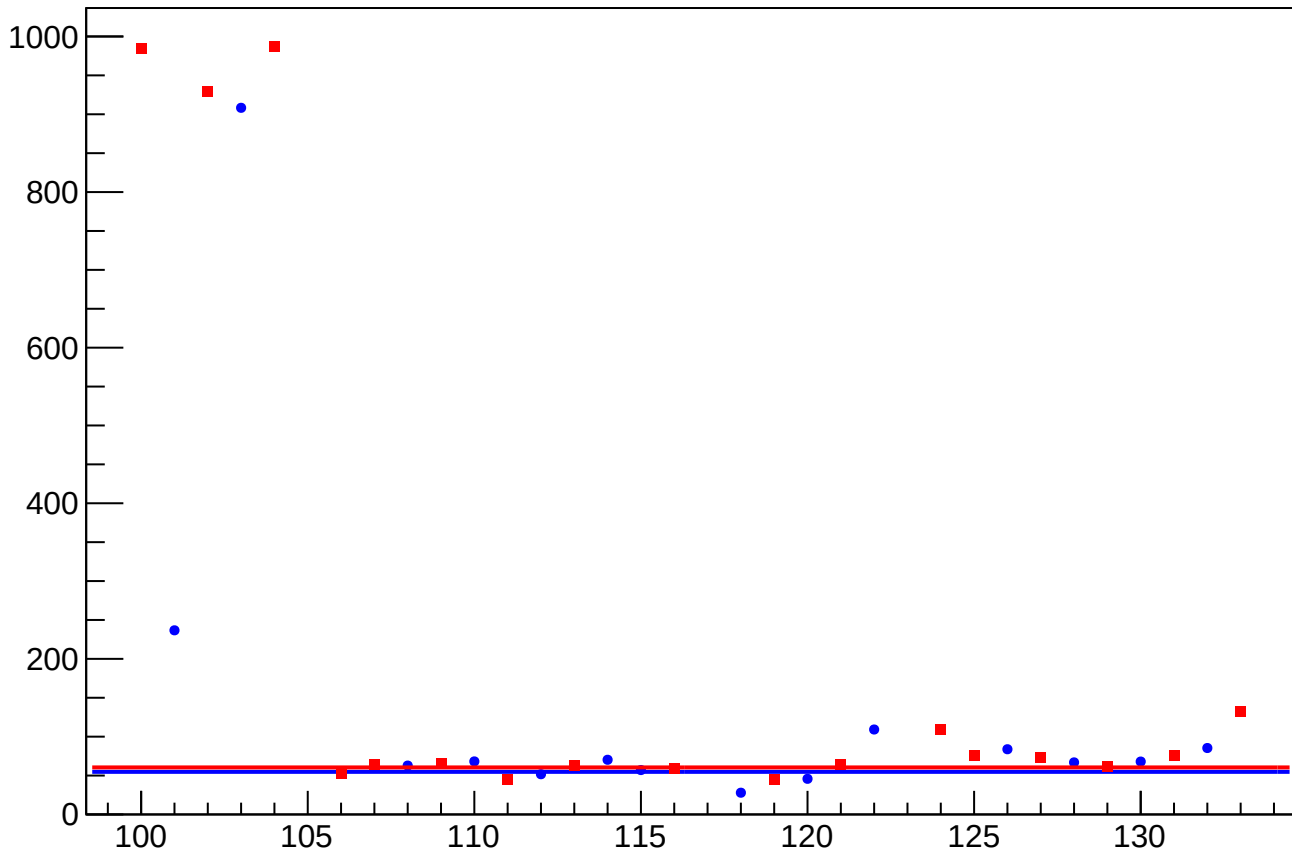
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.026+/-0.021  $\chi^2/\text{NDF}$ : 33.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 54.766 $\pm$ 0.021  $\chi^2$ /NDF: 2683795.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 60.461 $\pm$ 0.020  $\chi^2$ /NDF: 2370940.4/16

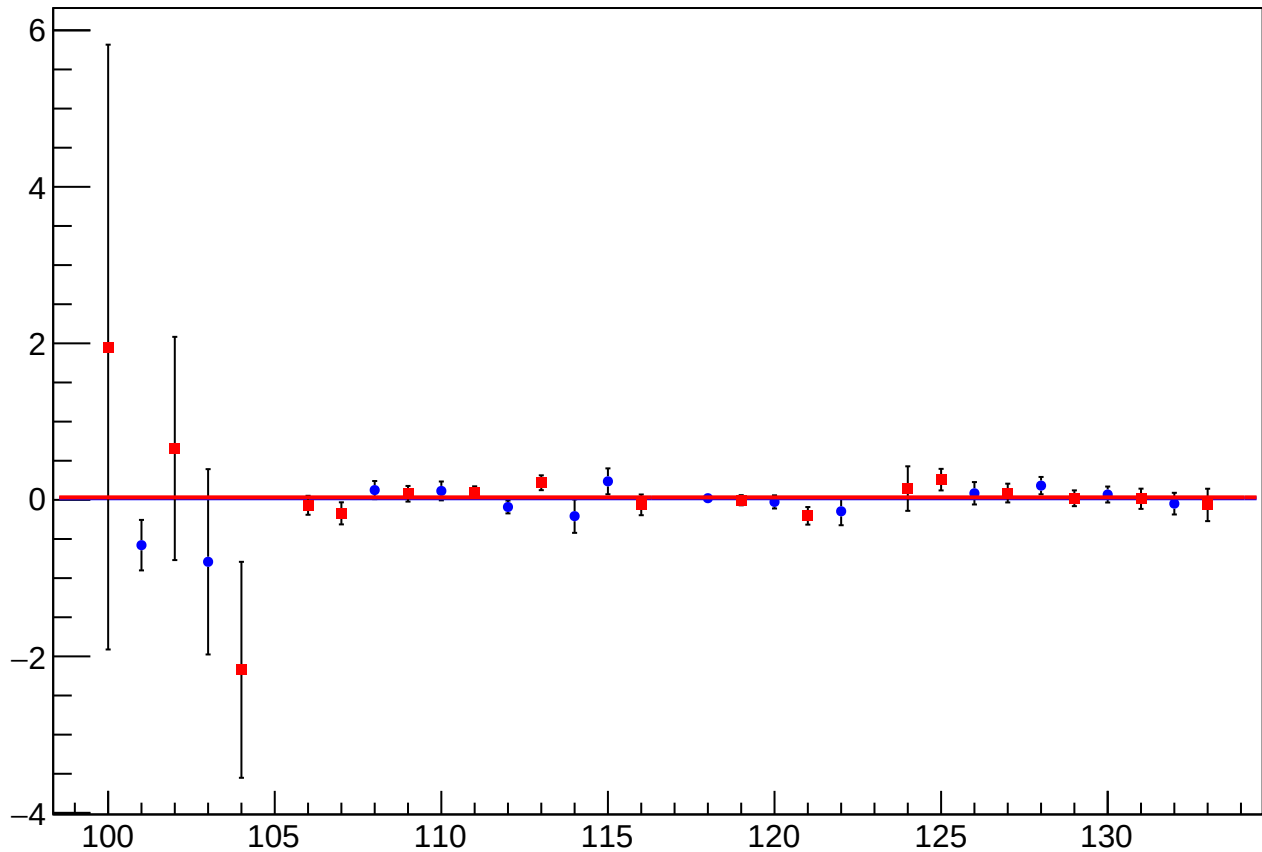
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 57.660 $\pm$ 0.015  $\chi^2$ /NDF: 5093283.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.021+/-0.029  $\chi^2/\text{NDF}$ : 14.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.032+/-0.029  $\chi^2/\text{NDF}$ : 19.3/16

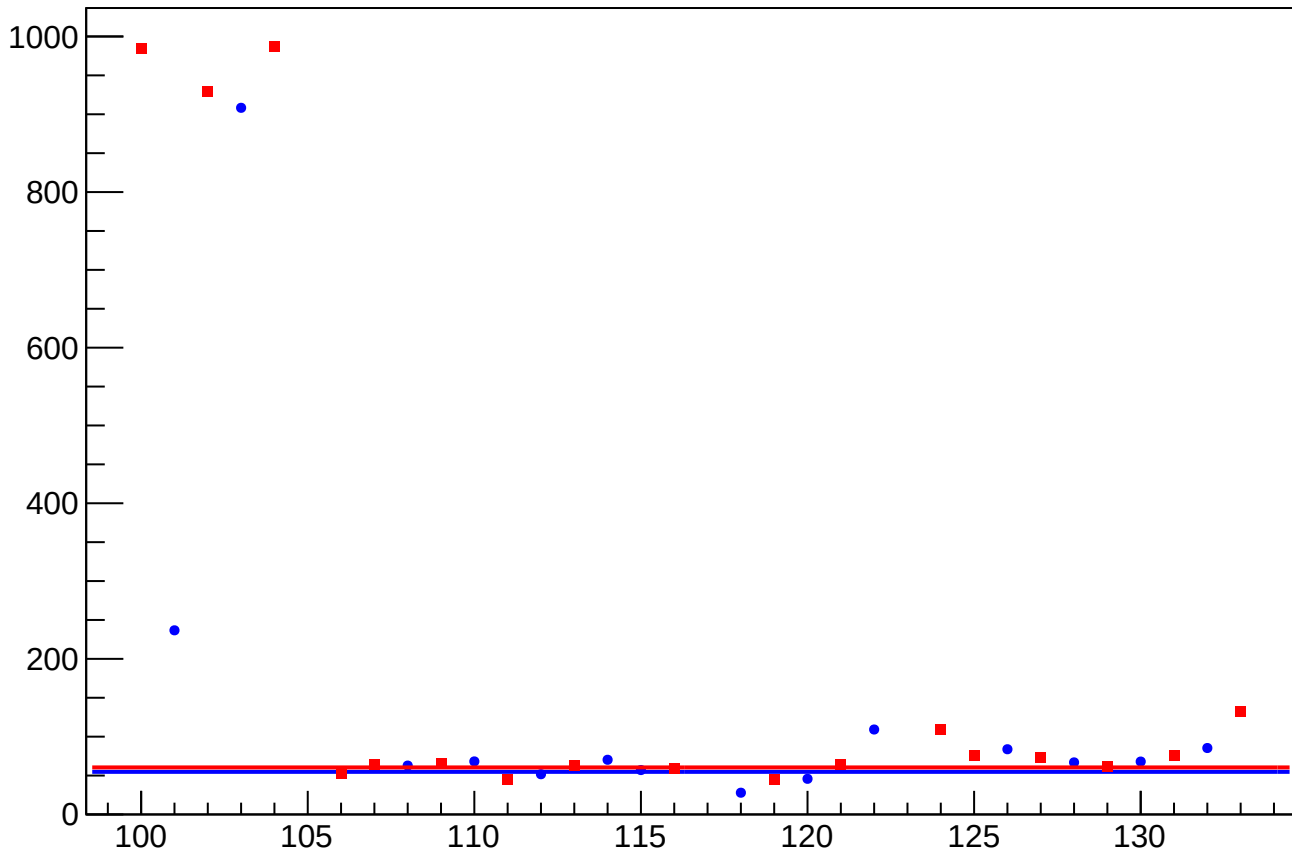
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.026+/-0.021  $\chi^2/\text{NDF}$ : 33.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 54.766 $\pm$ 0.021  $\chi^2$ /NDF: 2683795.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 60.461 $\pm$ 0.020  $\chi^2$ /NDF: 2370940.4/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

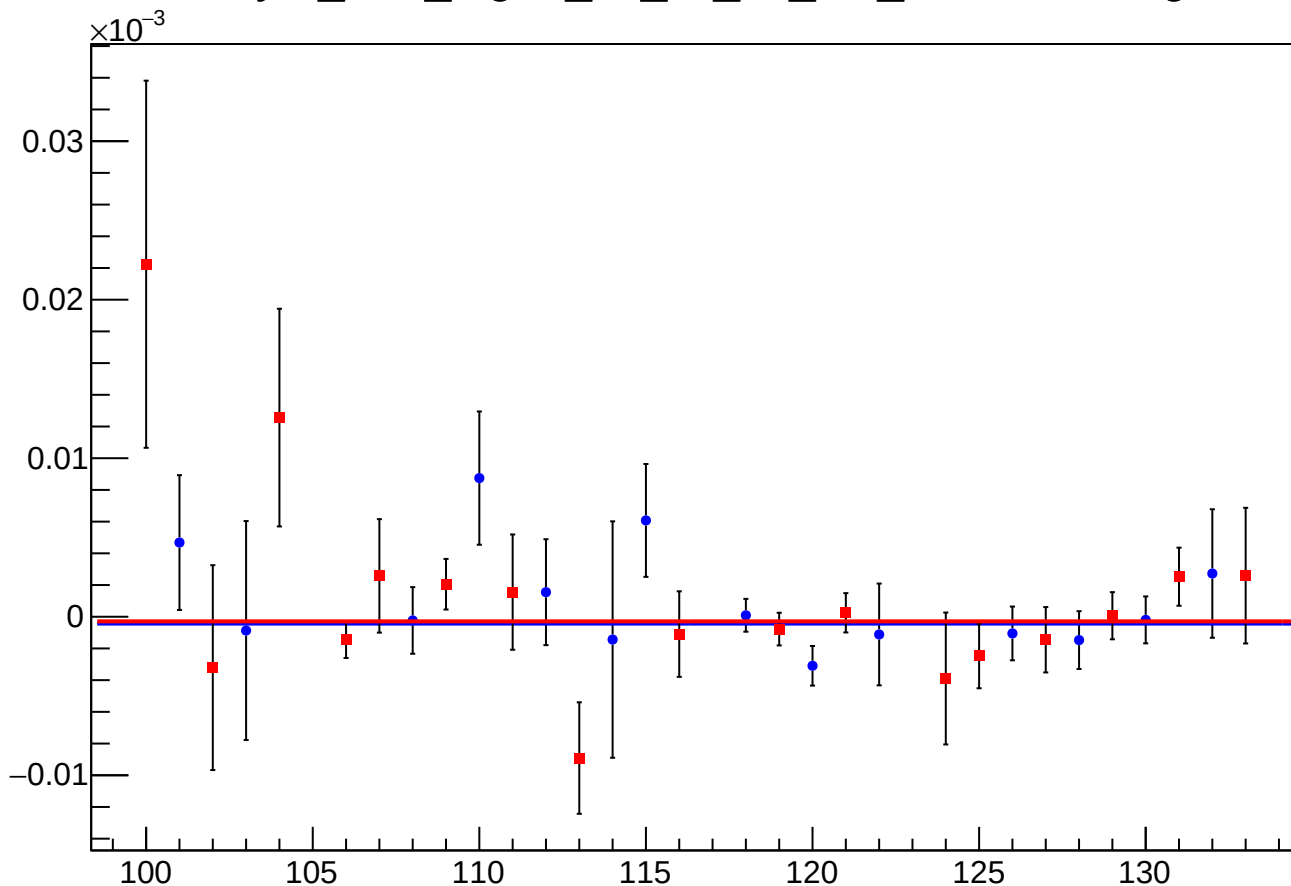
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 57.660 $\pm$ 0.015  $\chi^2$ /NDF: 5093283.0/30

- 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: 15.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 23.2/16

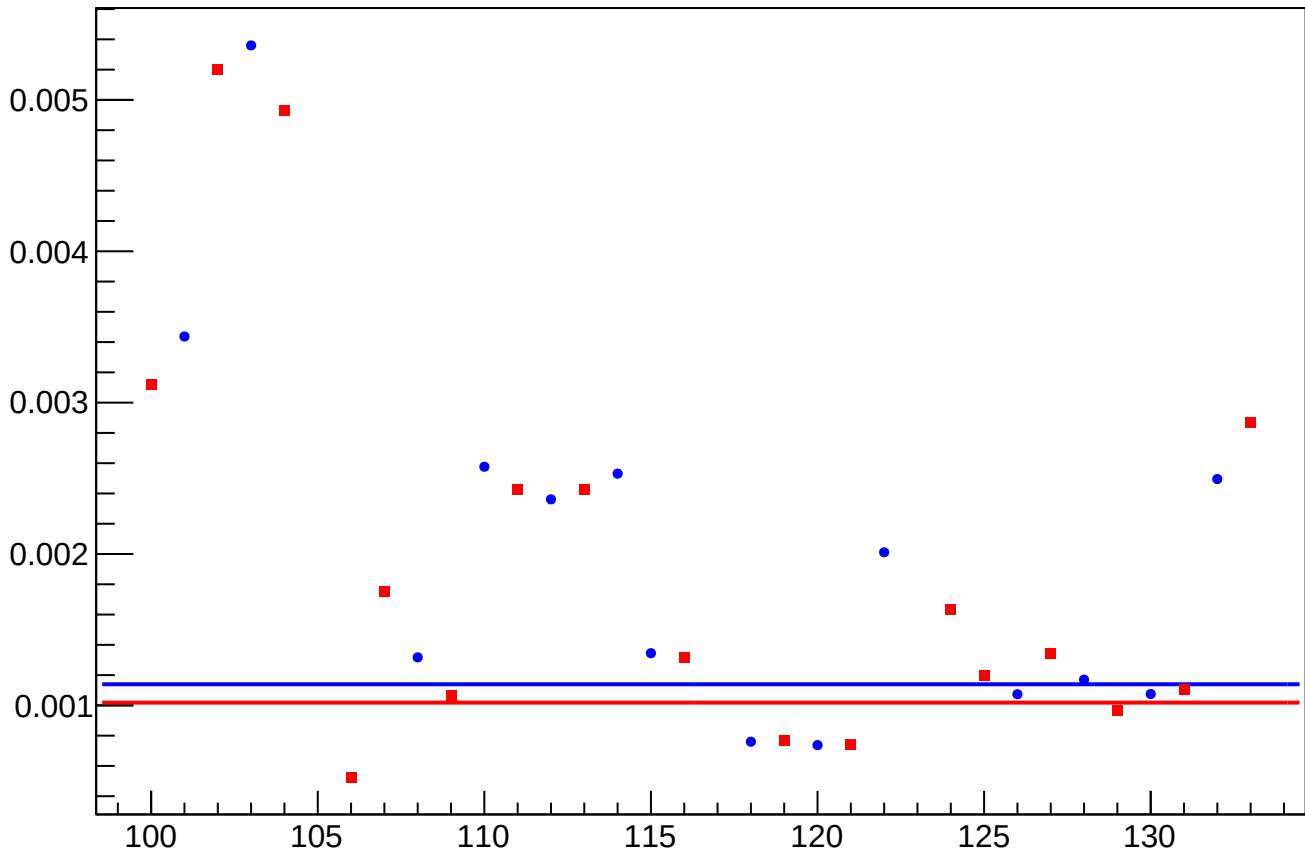
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 39.1/30

- 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  $\chi^2/\text{NDF}$ : 2776851.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3367052.1/16

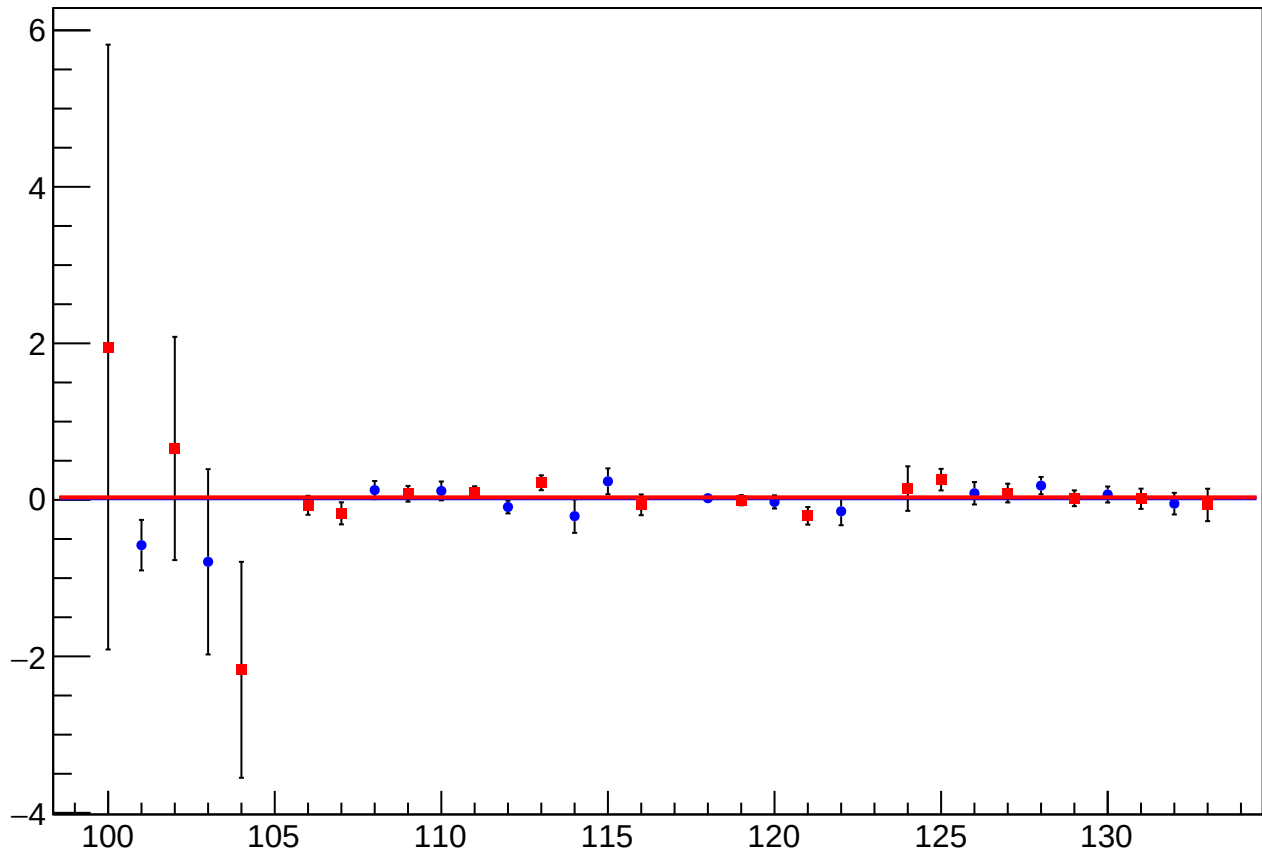
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 6200630.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.021+/-0.029  $\chi^2/\text{NDF}$ : 14.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.032+/-0.029  $\chi^2/\text{NDF}$ : 19.3/16

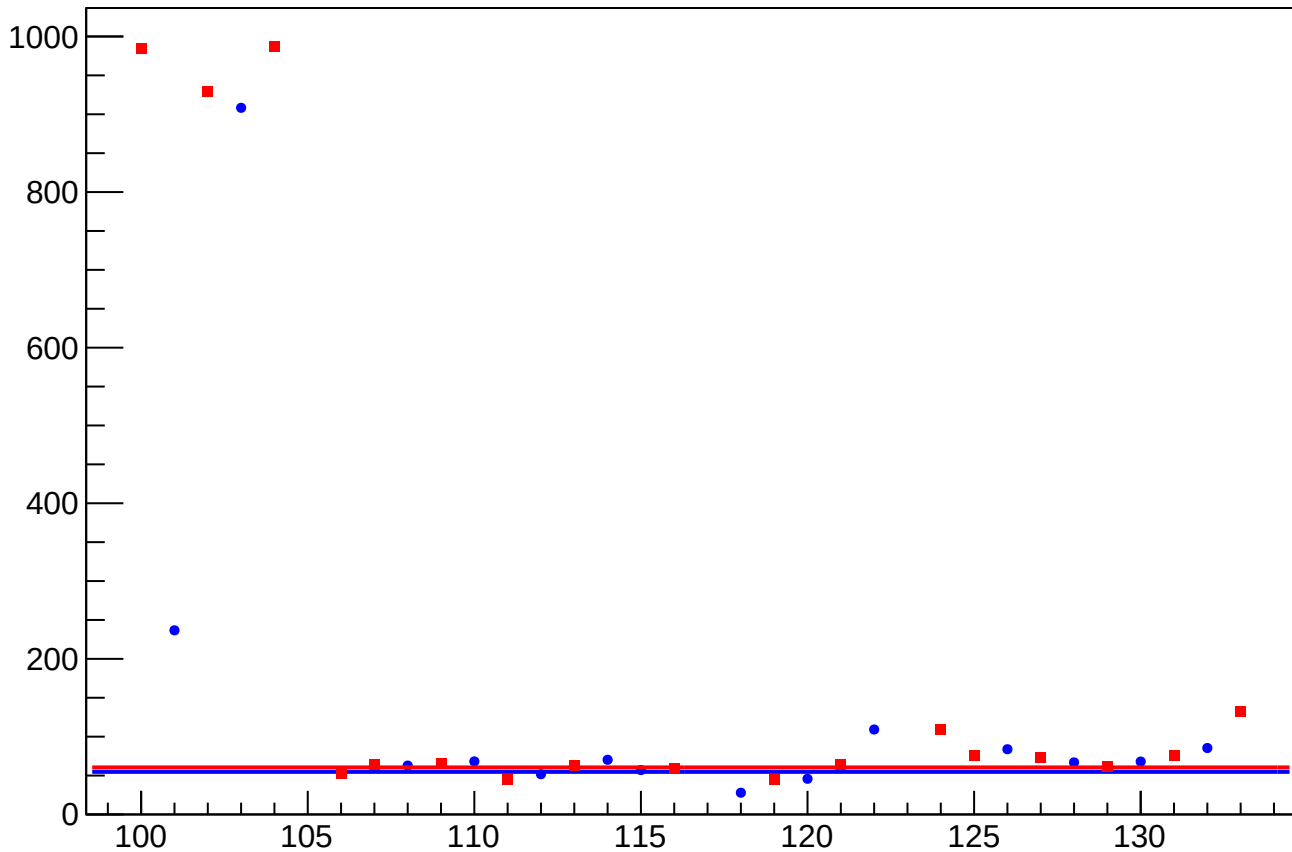
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.026+/-0.021  $\chi^2/\text{NDF}$ : 33.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 54.766 $\pm$ 0.021  $\chi^2$ /NDF: 2683859.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 60.461 $\pm$ 0.020  $\chi^2$ /NDF: 2370929.4/16

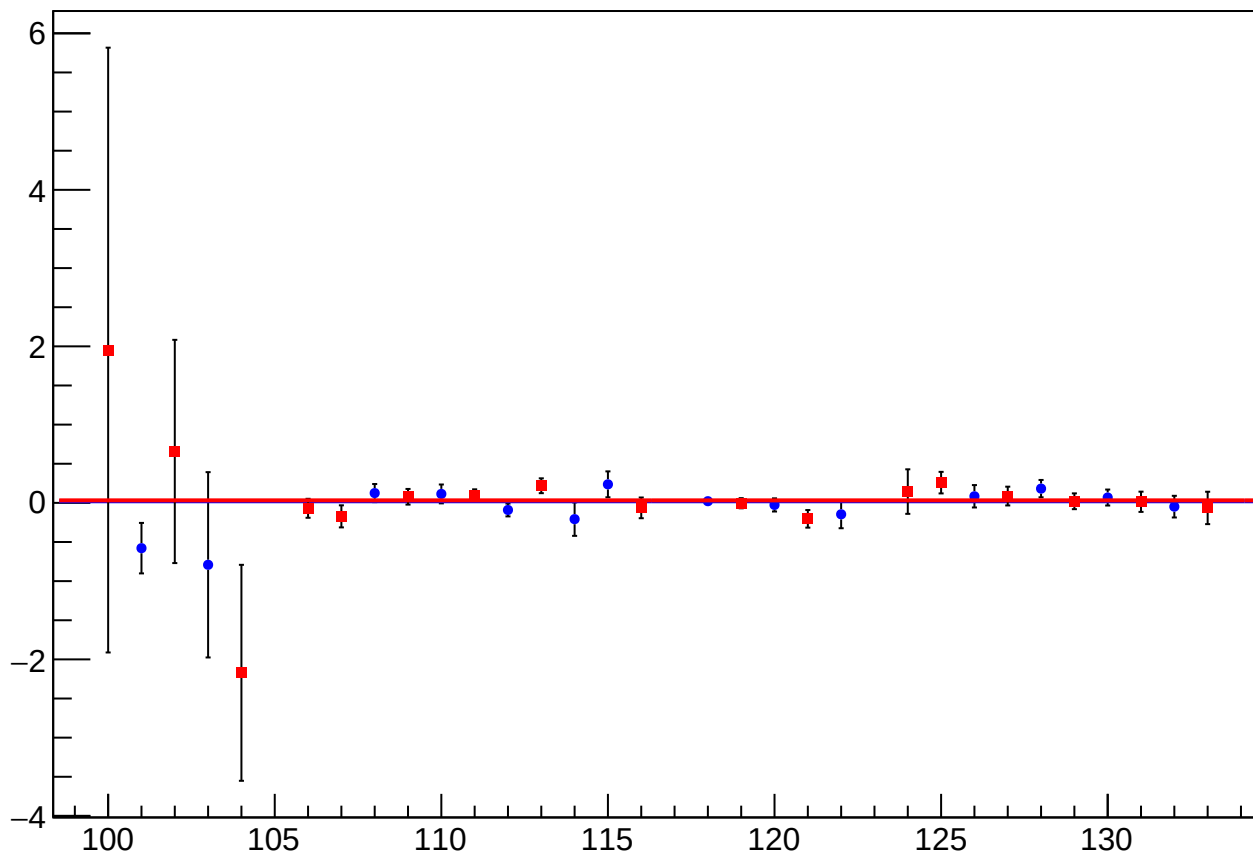
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 57.660 $\pm$ 0.015  $\chi^2$ /NDF: 5093344.6/30

- 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: 0.021 $\pm$ 0.029  $\chi^2$ /NDF: 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.032 $\pm$ 0.029  $\chi^2$ /NDF: 19.3/16

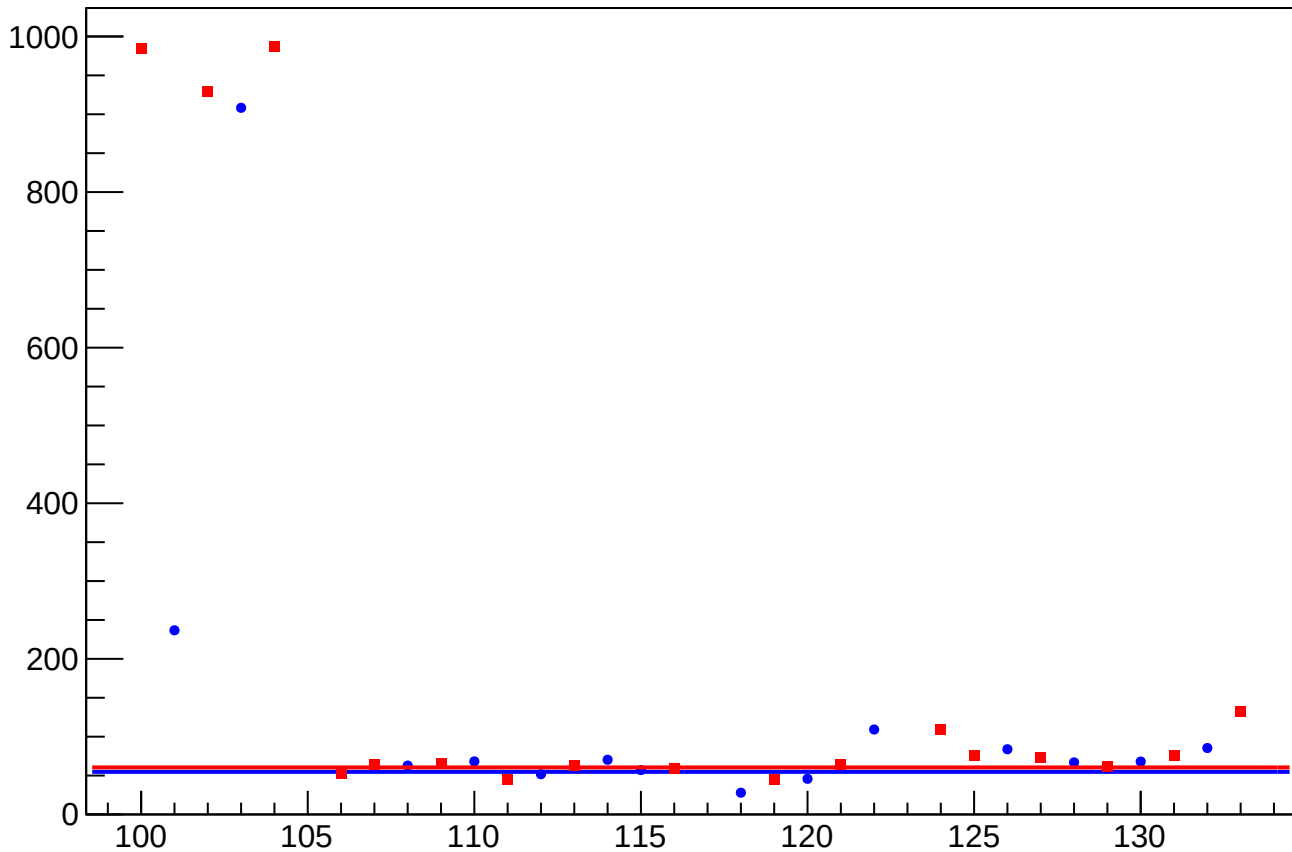
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.026 $\pm$ 0.021  $\chi^2$ /NDF: 33.4/30

- 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: 54.766+/-0.021  $\chi^2/\text{NDF}$ : 2683859.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 60.461+/-0.020  $\chi^2/\text{NDF}$ : 2370929.4/16

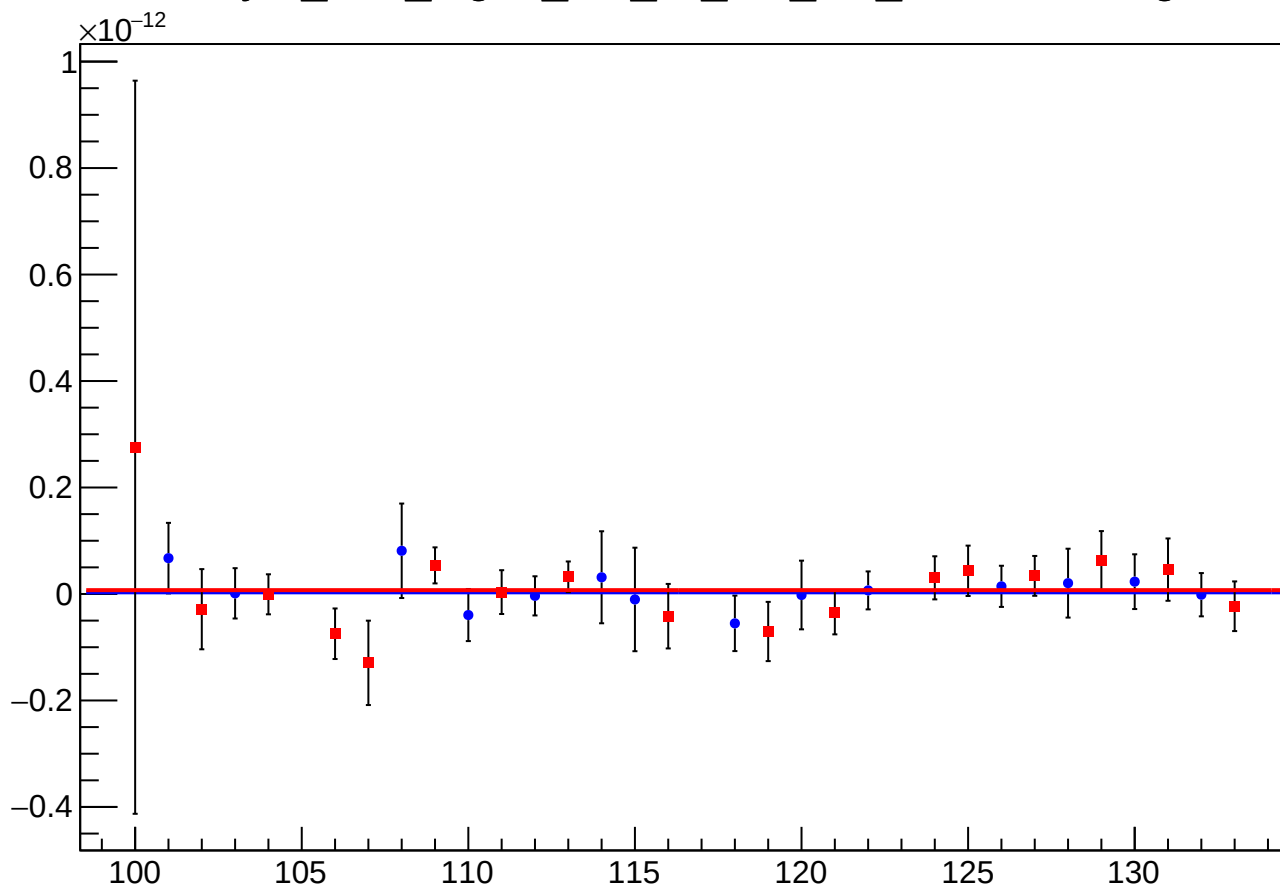
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 57.660+/-0.015  $\chi^2/\text{NDF}$ : 5093344.6/30

- 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: 4.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.9/16

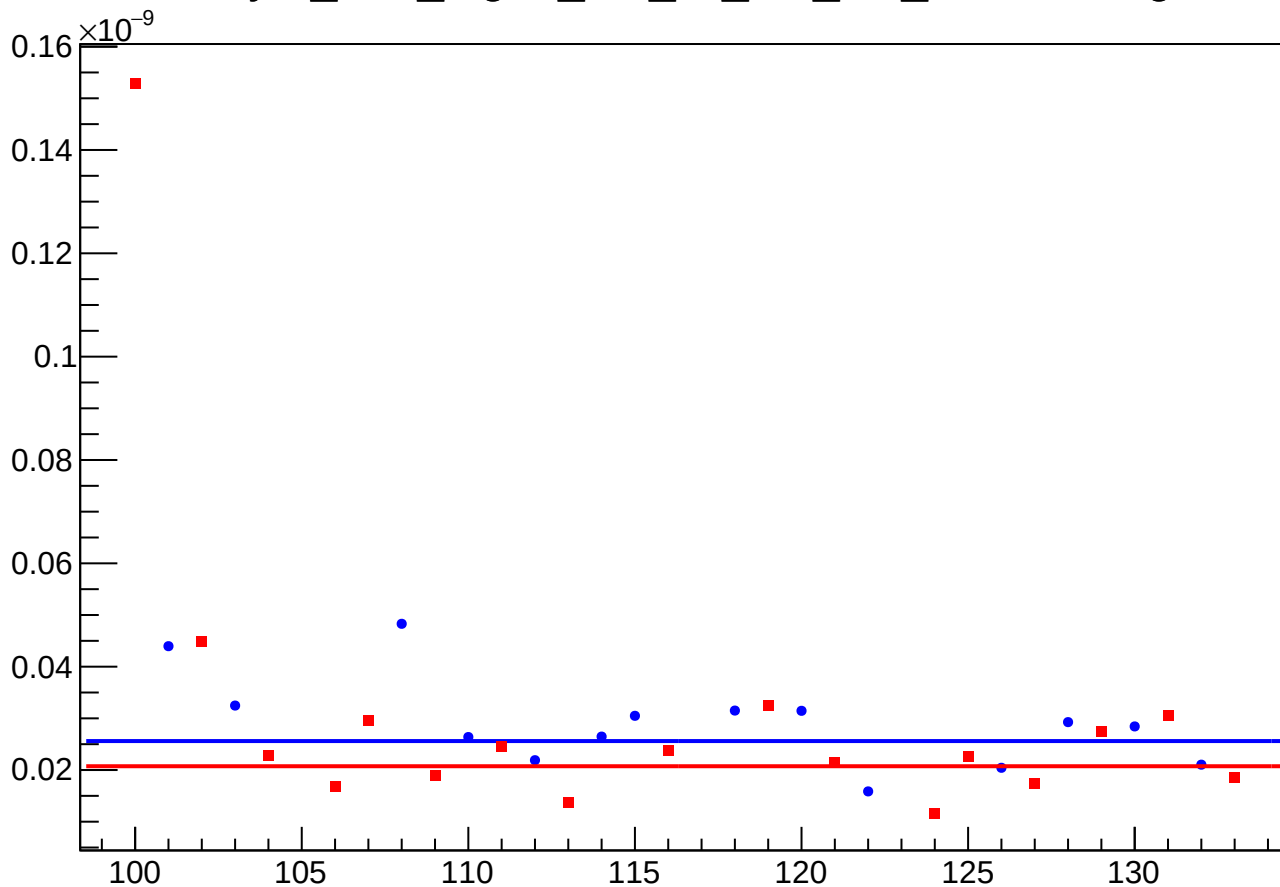
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 20.2/30

- 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  $\chi^2/\text{NDF}$ : 617720.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 770451.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

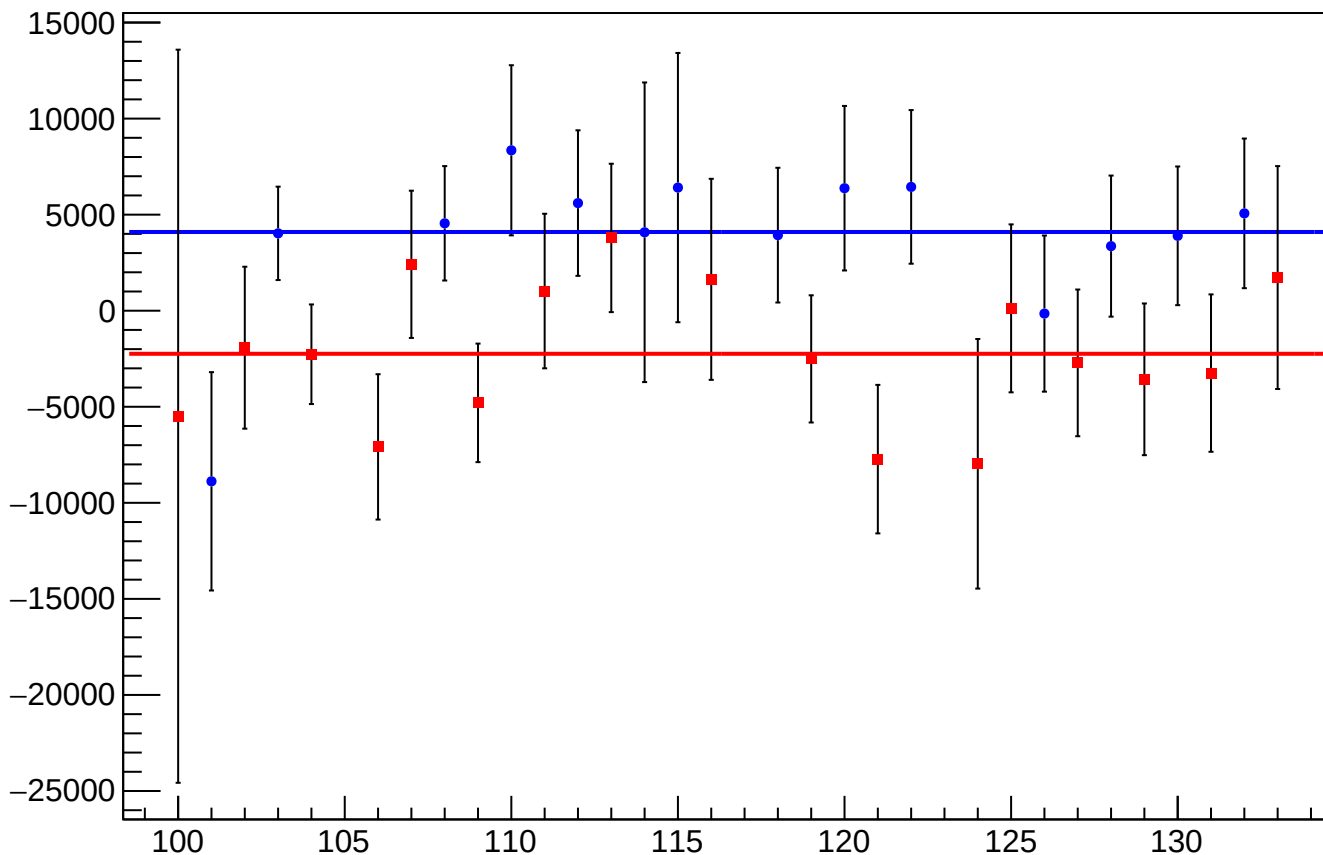
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1544147.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr2\_mean vs Slug



Right In: 4097.939+/-1027.979  $\chi^2/\text{NDF}$ : 8.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2242.091+/-965.587  $\chi^2/\text{NDF}$ : 11.2/16

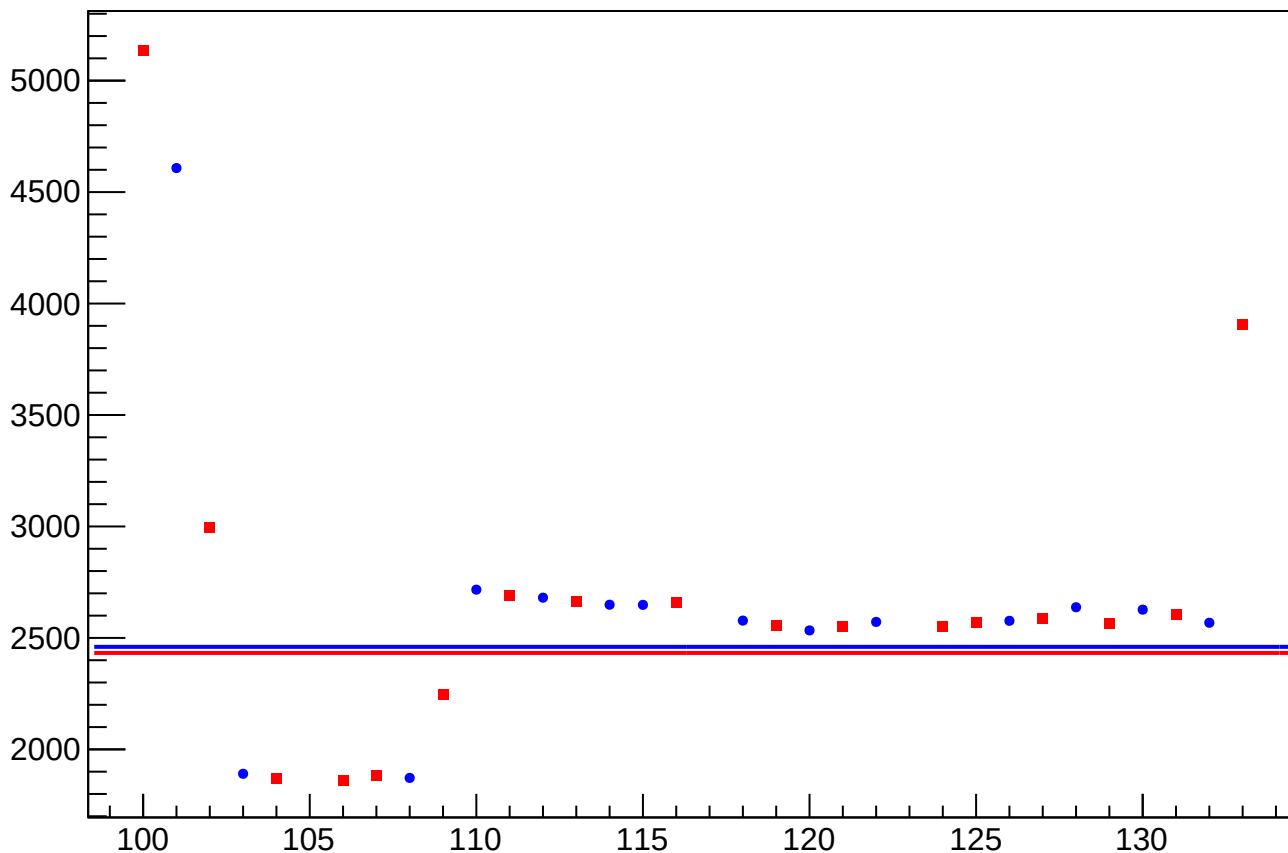
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 729.698+/-703.797  $\chi^2/\text{NDF}$ : 39.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr2\_rms vs Slug



Right In: 2459.931+/-0.727  $\chi^2/\text{NDF}$ : 506181.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2432.664+/-0.683  $\chi^2/\text{NDF}$ : 429778.1/16

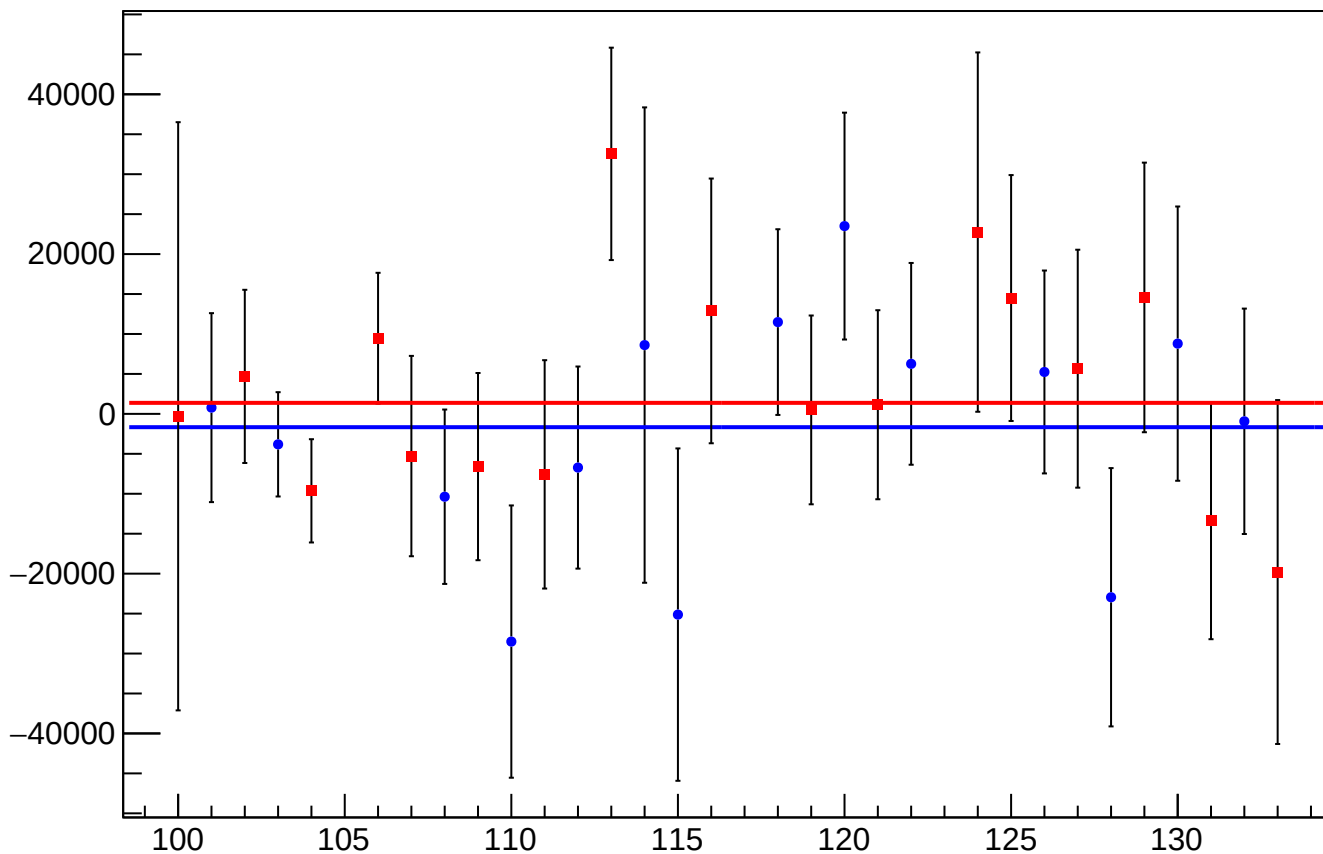
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2445.445+/-0.498  $\chi^2/\text{NDF}$ : 936707.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_reg\_correction\_mean vs Slug



Right In: -1666.397 $\pm$ 3347.604  $\chi^2$ /NDF: 12.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1378.824 $\pm$ 2998.704  $\chi^2$ /NDF: 15.4/16

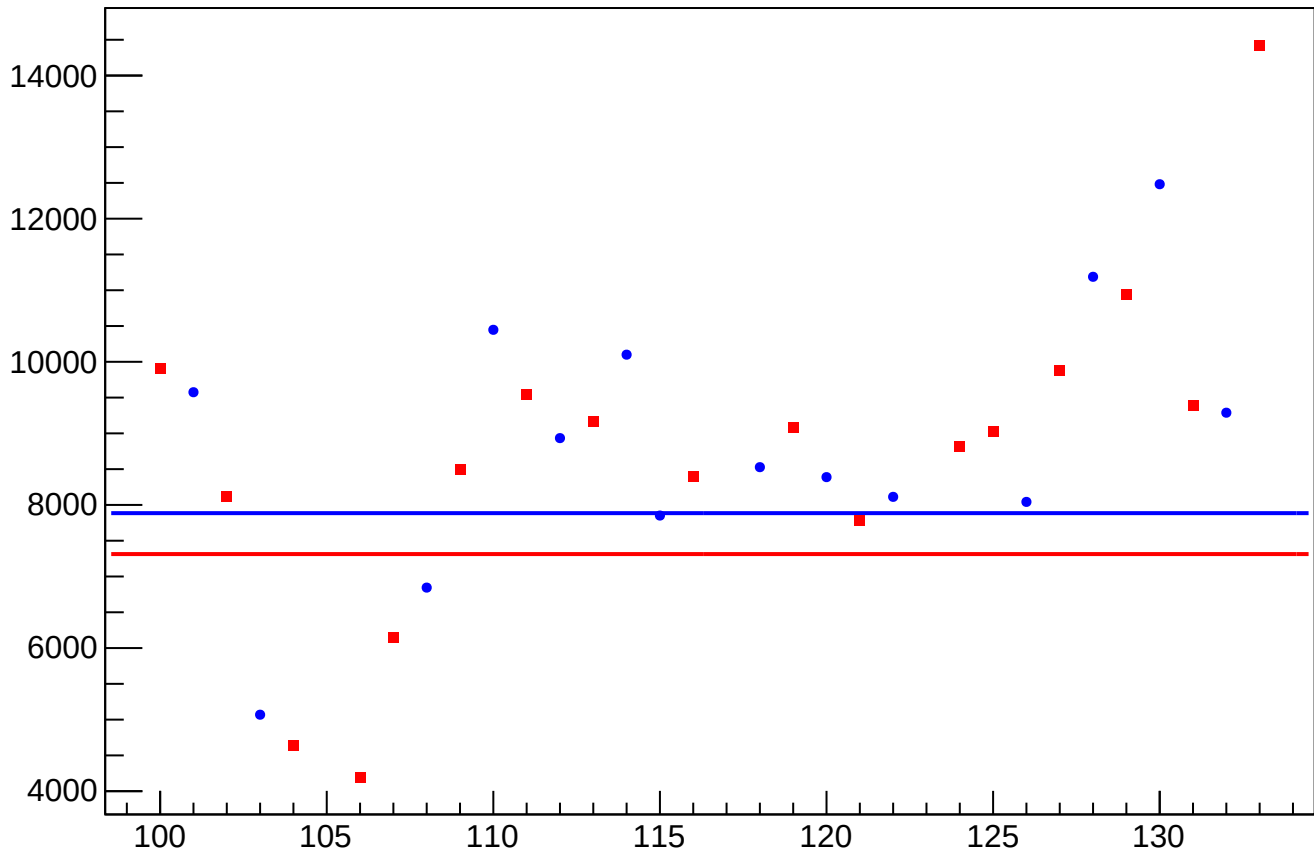
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.126 $\pm$ 2233.604  $\chi^2$ /NDF: 27.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_reg\_correction\_rms vs Slug



Right In: 7885.215+/-2.367  $\chi^2/\text{NDF}$ : 757649.6/13

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

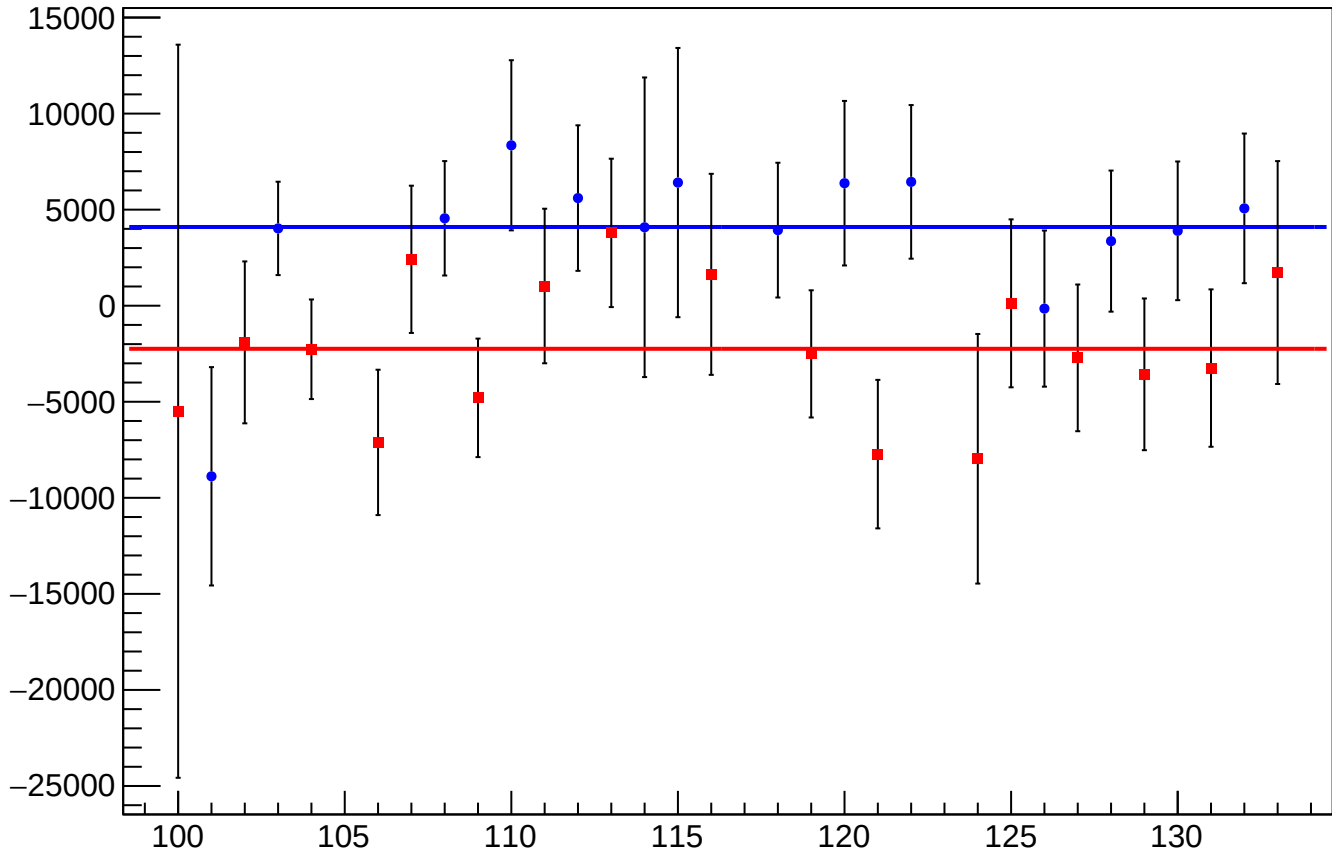
Right Out: 7313.329+/-2.120  $\chi^2/\text{NDF}$ : 1280678.9/16

All: 7567.926+/-1.579  $\chi^2/\text{NDF}$ : 2070712.1/30

- 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\_atr2\_mean vs Slug



Right In: 4097.329 $\pm$ 1027.979  $\chi^2$ /NDF: 8.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2242.880 $\pm$ 965.596  $\chi^2$ /NDF: 11.3/16

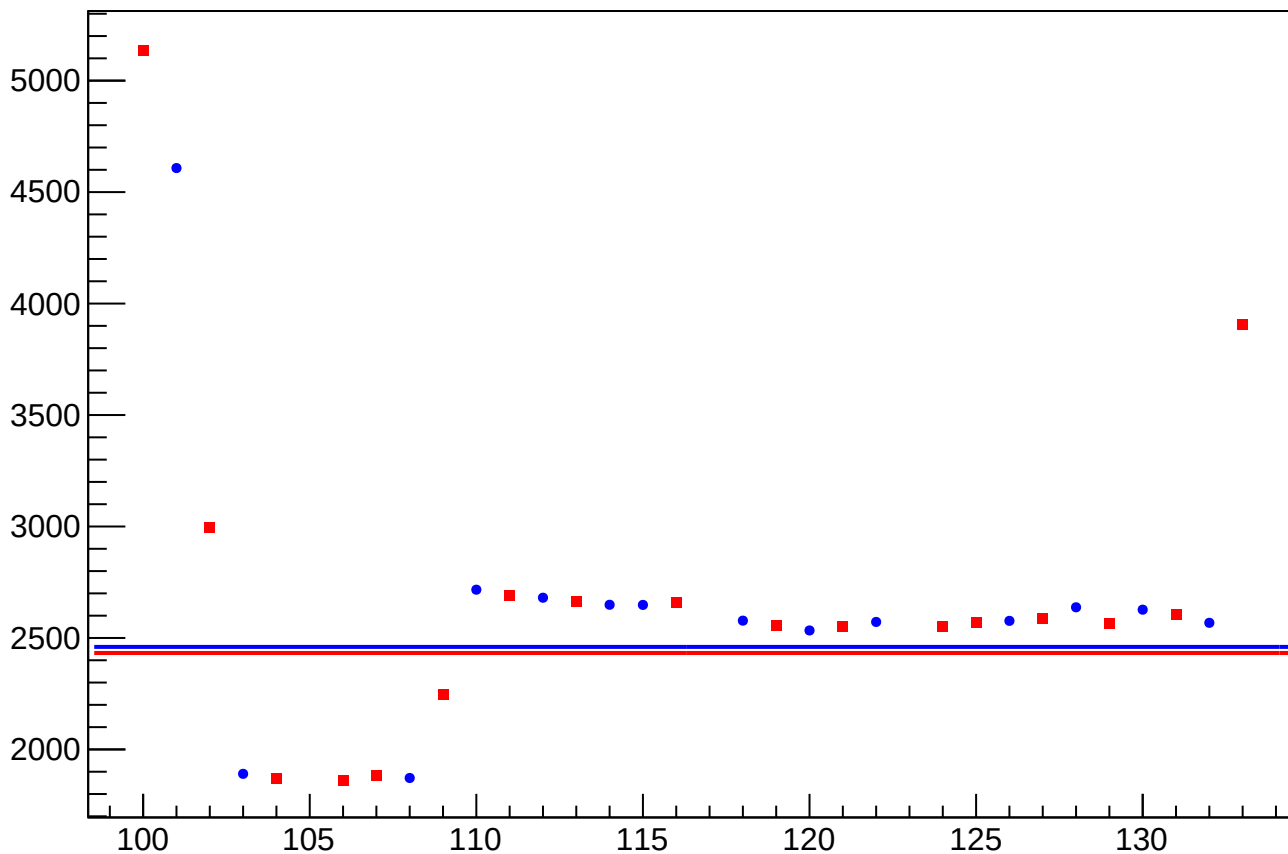
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 729.019 $\pm$ 703.801  $\chi^2$ /NDF: 39.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atr2\_rms vs Slug



Right In: 2459.932+/-0.727  $\chi^2/\text{NDF}$ : 506179.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2432.690+/-0.683  $\chi^2/\text{NDF}$ : 429725.6/16

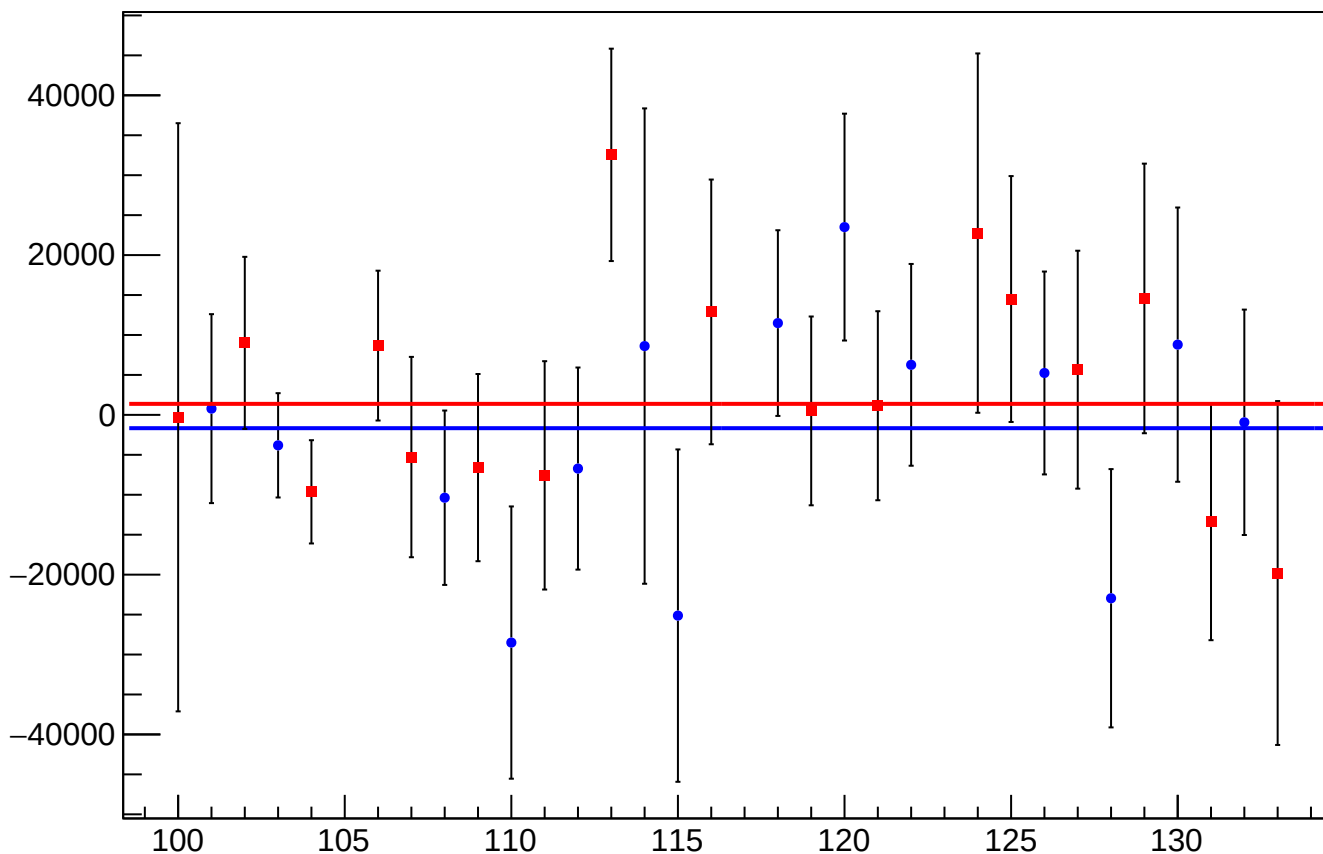
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2445.459+/-0.498  $\chi^2/\text{NDF}$ : 936651.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_cor\_correction\_mean vs Slug



Right In: -1666.058+/-3347.720  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1378.032+/-3046.113  $\chi^2/\text{NDF}$ : 15.4/16

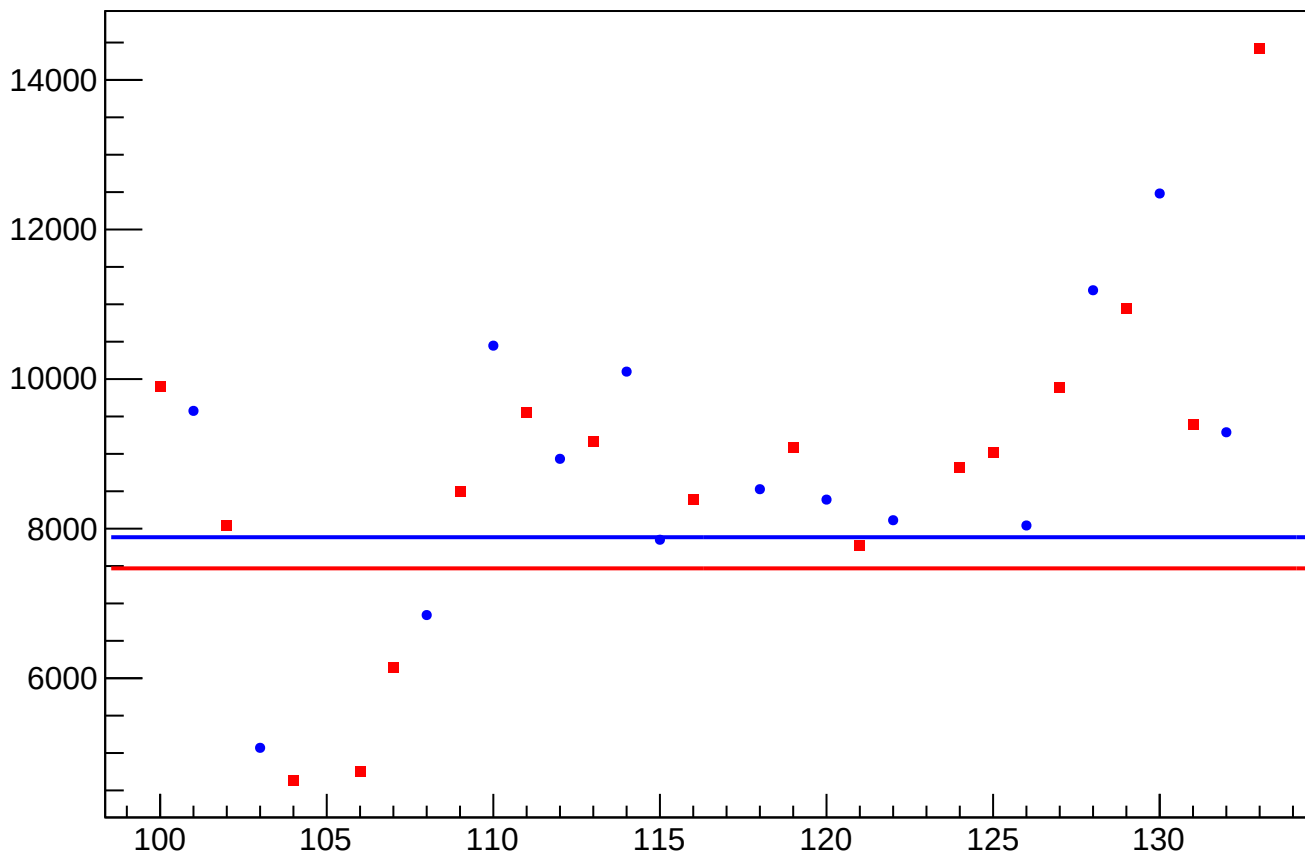
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.738+/-2253.026  $\chi^2/\text{NDF}$ : 27.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_cor\_correction\_rms vs Slug



Right In: 7885.597+/-2.367  $\chi^2/\text{NDF}$ : 757363.7/13

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: 7469.133+/-2.154  $\chi^2/\text{NDF}$ : 1132974.3/16

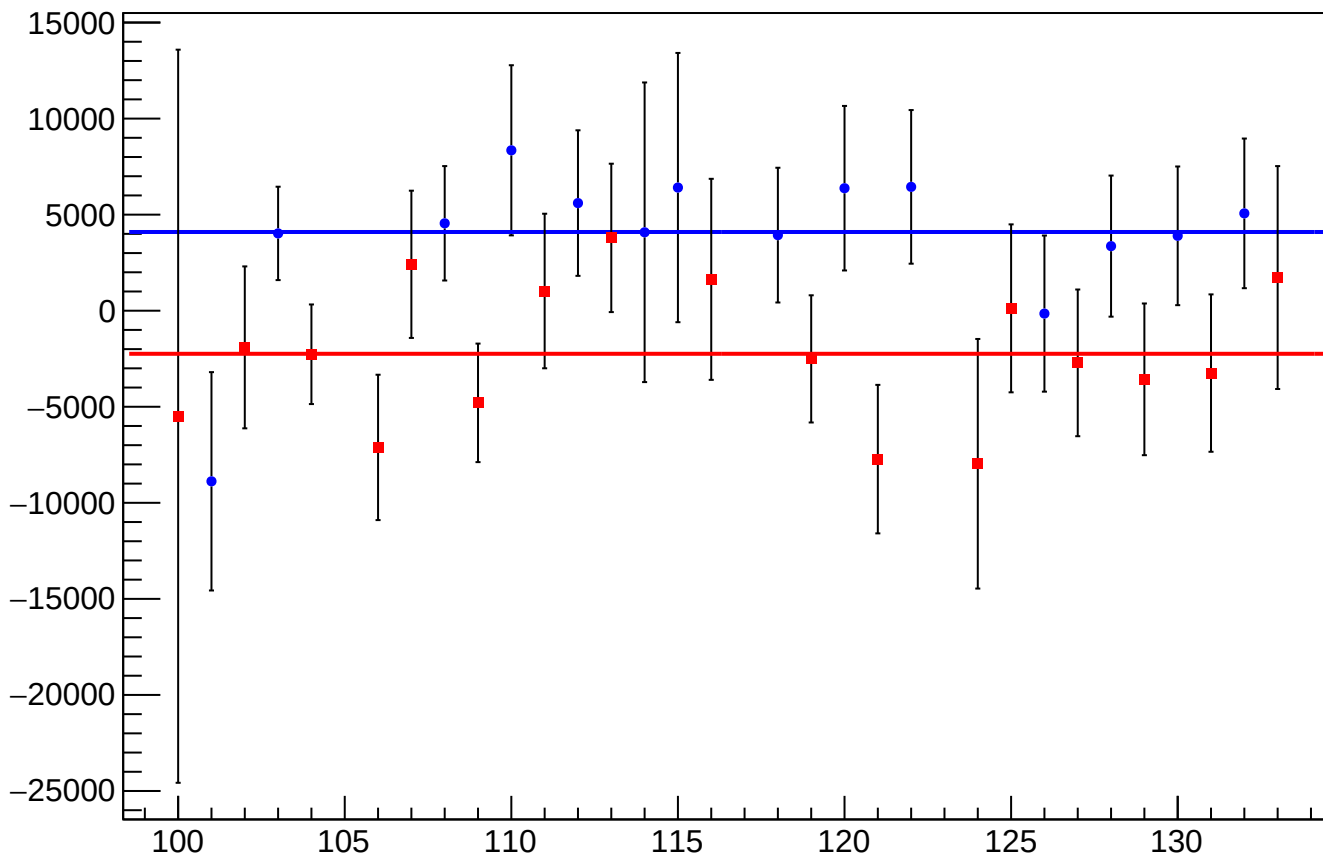
All: 7657.763+/-1.593  $\chi^2/\text{NDF}$ : 1907270.7/30

- 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\_atr2\_mean vs Slug



Right In: 4097.329 $\pm$ 1027.979  $\chi^2$ /NDF: 8.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2242.880 $\pm$ 965.596  $\chi^2$ /NDF: 11.3/16

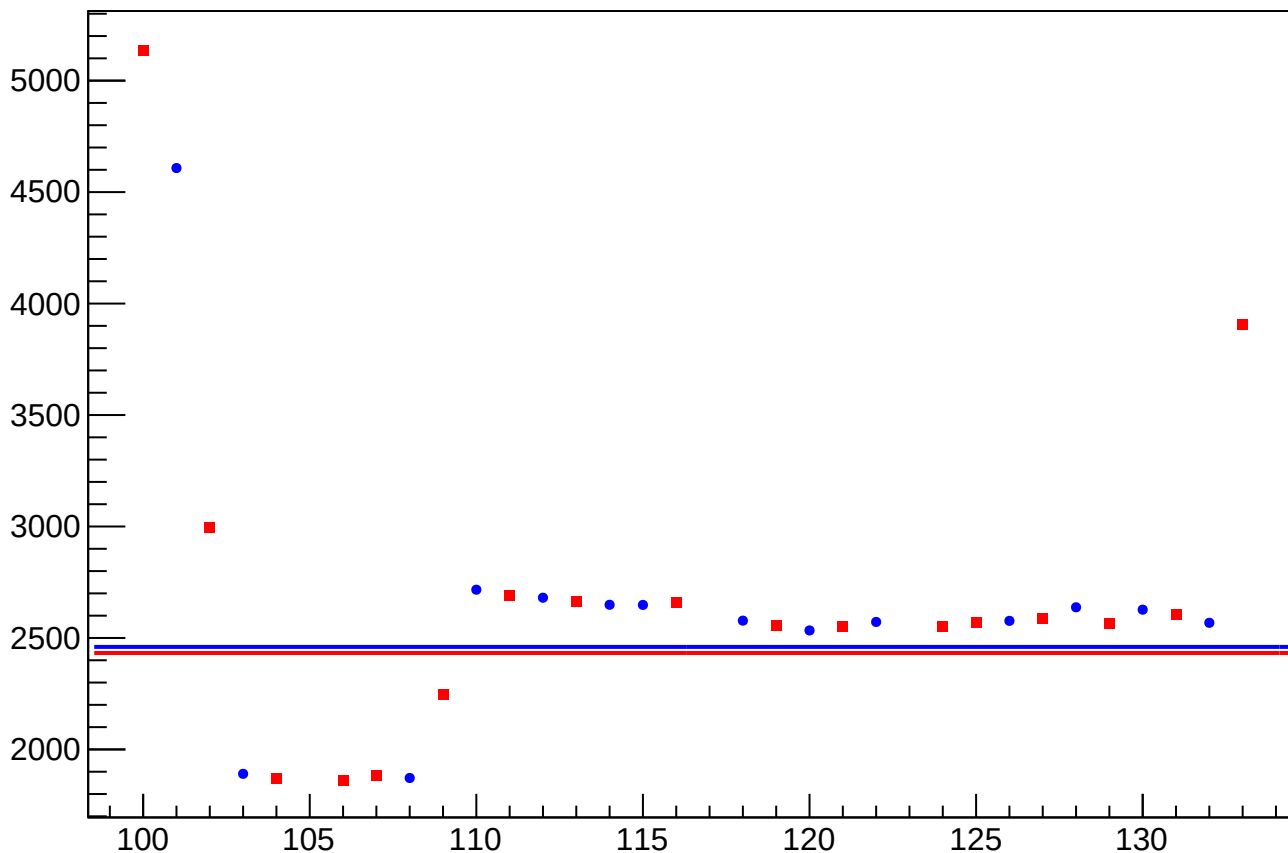
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 729.019 $\pm$ 703.801  $\chi^2$ /NDF: 39.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atr2\_rms vs Slug



Right In: 2459.932+/-0.727  $\chi^2/\text{NDF}$ : 506179.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2432.690+/-0.683  $\chi^2/\text{NDF}$ : 429725.6/16

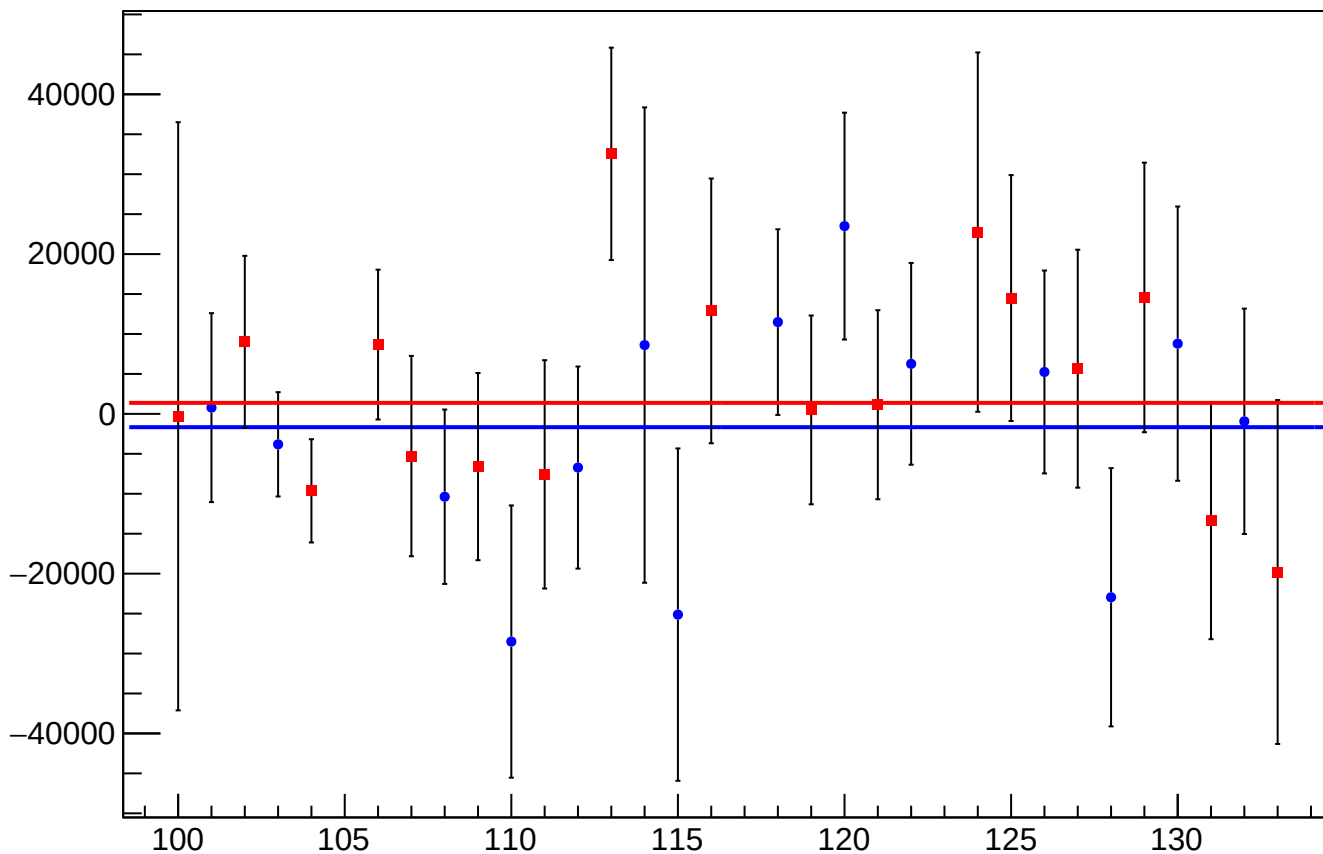
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2445.459+/-0.498  $\chi^2/\text{NDF}$ : 936651.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_cor\_correction\_mean vs Slug



Right In: -1666.058+/-3347.720  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1378.032+/-3046.113  $\chi^2/\text{NDF}$ : 15.4/16

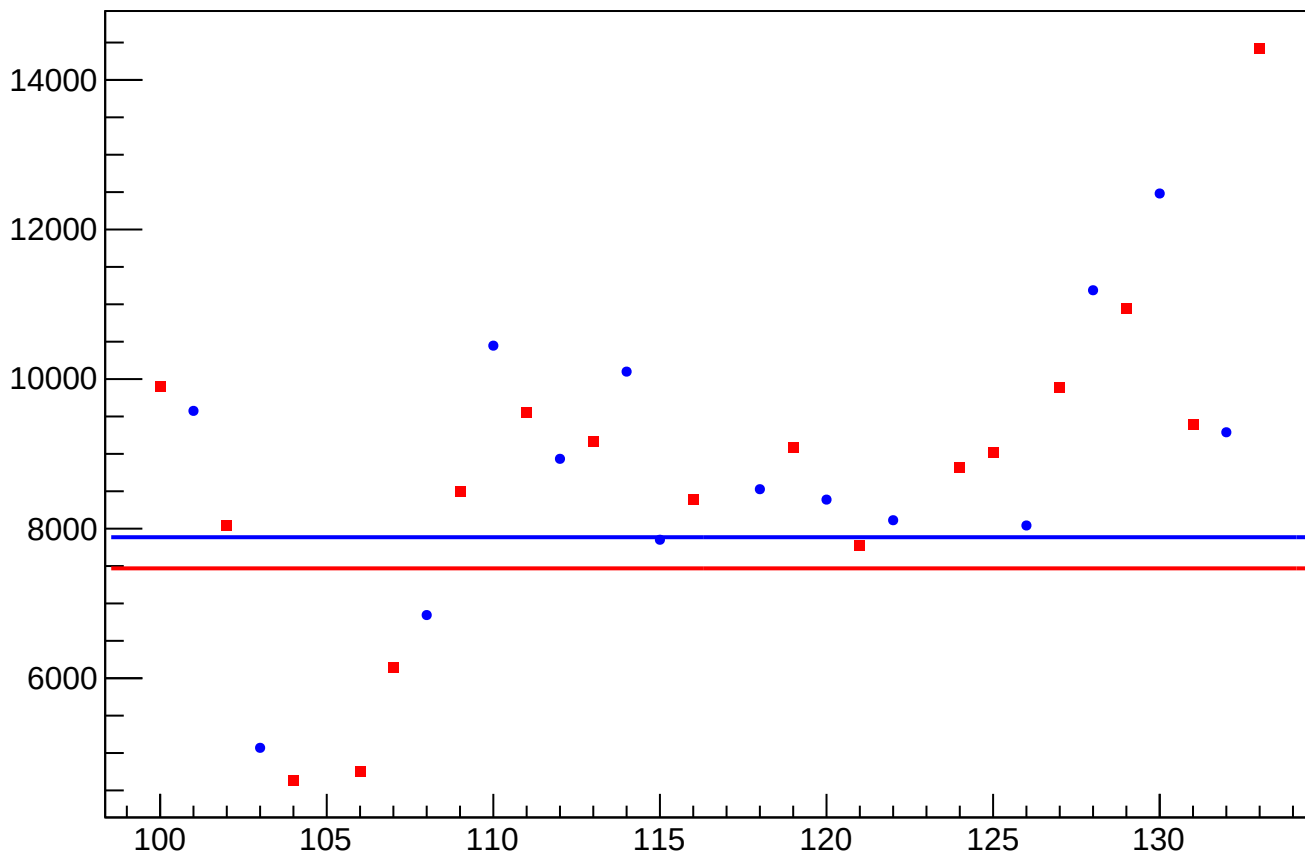
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.738+/-2253.026  $\chi^2/\text{NDF}$ : 27.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_cor\_correction\_rms vs Slug



Right In: 7885.597+/-2.367  $\chi^2/\text{NDF}$ : 757363.7/13

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

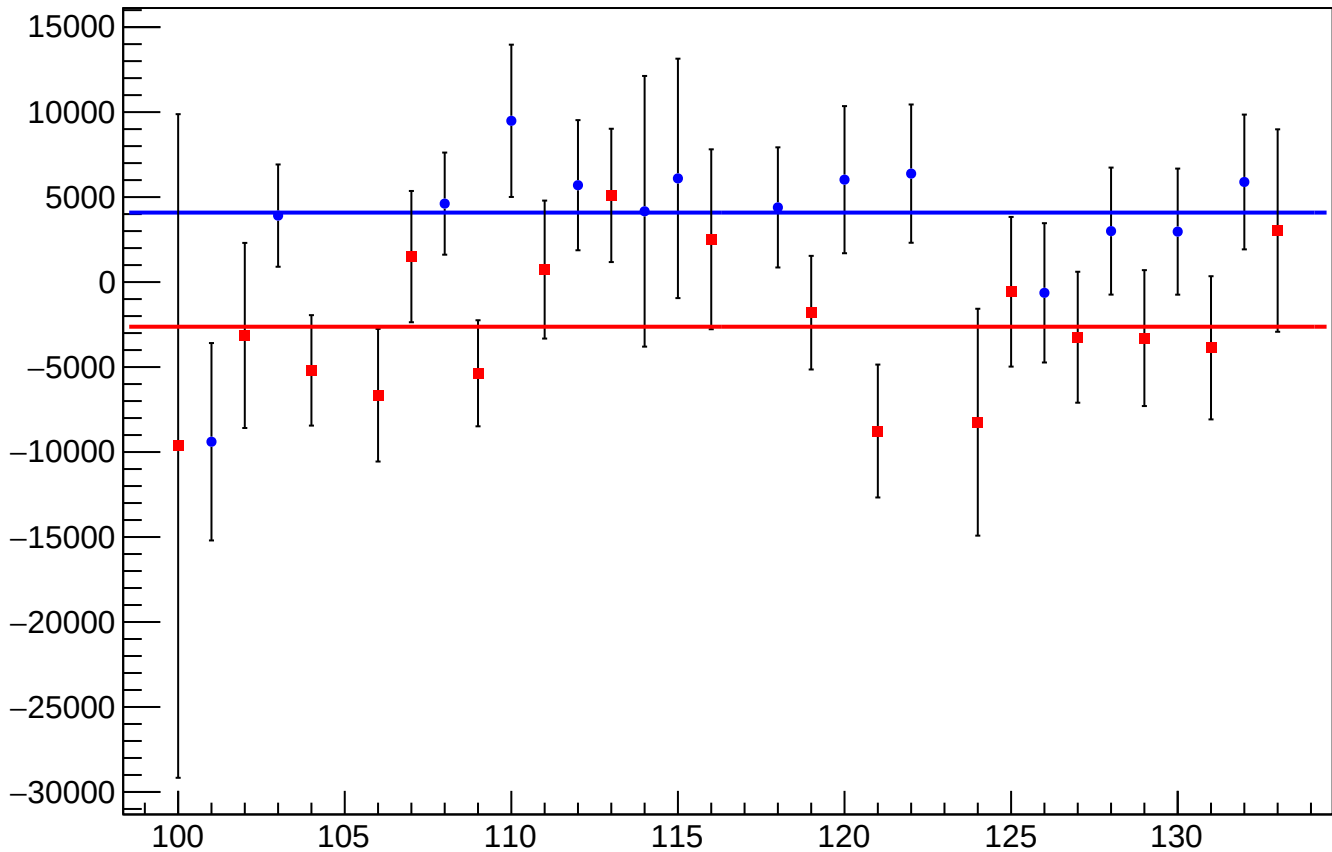
Right Out: 7469.133+/-2.154  $\chi^2/\text{NDF}$ : 1132974.3/16

All: 7657.763+/-1.593  $\chi^2/\text{NDF}$ : 1907270.7/30

- 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\_atr2\_mean vs Slug



Right In: 4088.367+/-1074.512  $\chi^2$ /NDF: 9.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

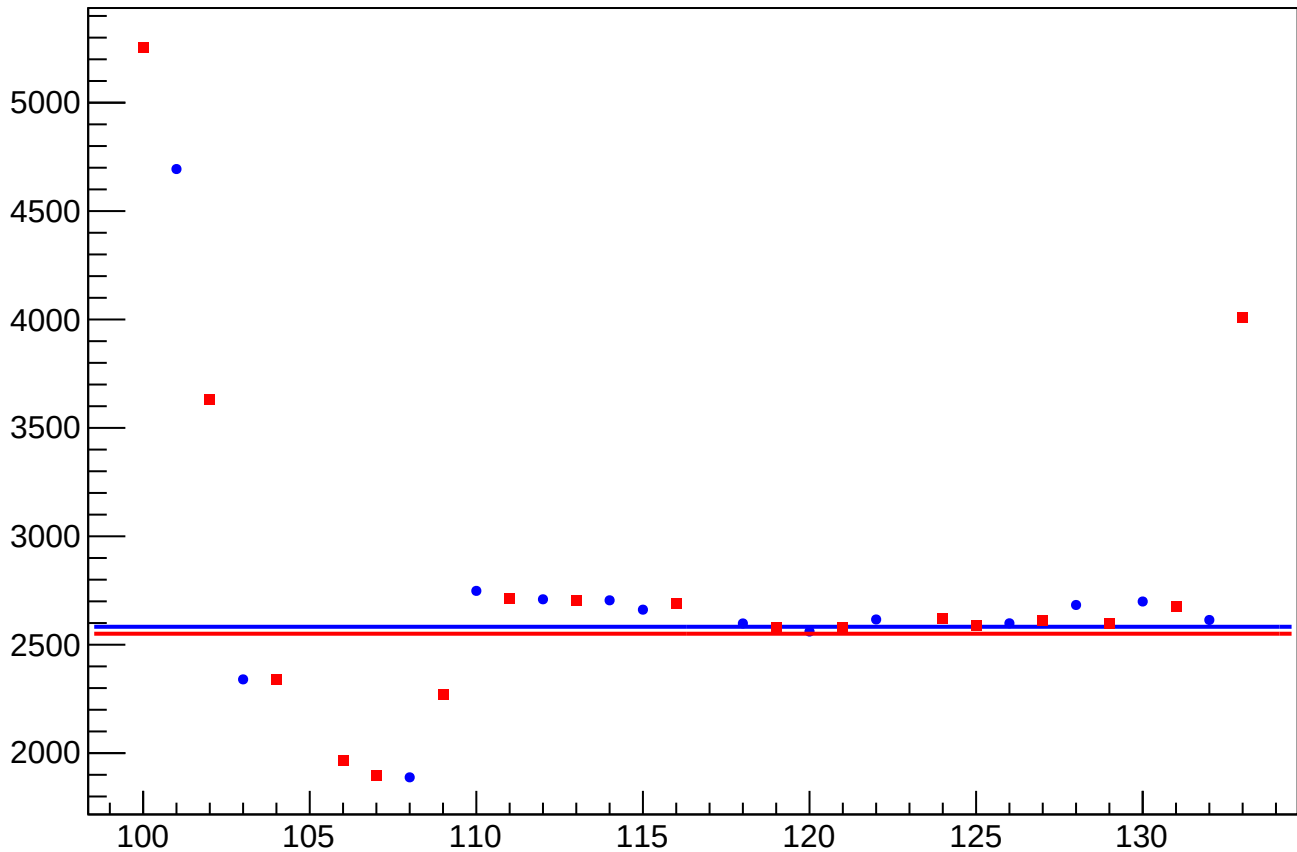
Right Out: -2626.599+/-1014.637  $\chi^2$ /NDF: 13.7/16

All: 538.591+/-737.716  $\chi^2$ /NDF: 43.8/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

# dit\_asym\_atr2\_rms vs Slug



Right In: 2582.745+/-0.760  $\chi^2/\text{NDF}$ : 393669.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2550.674+/-0.717  $\chi^2/\text{NDF}$ : 375533.7/16

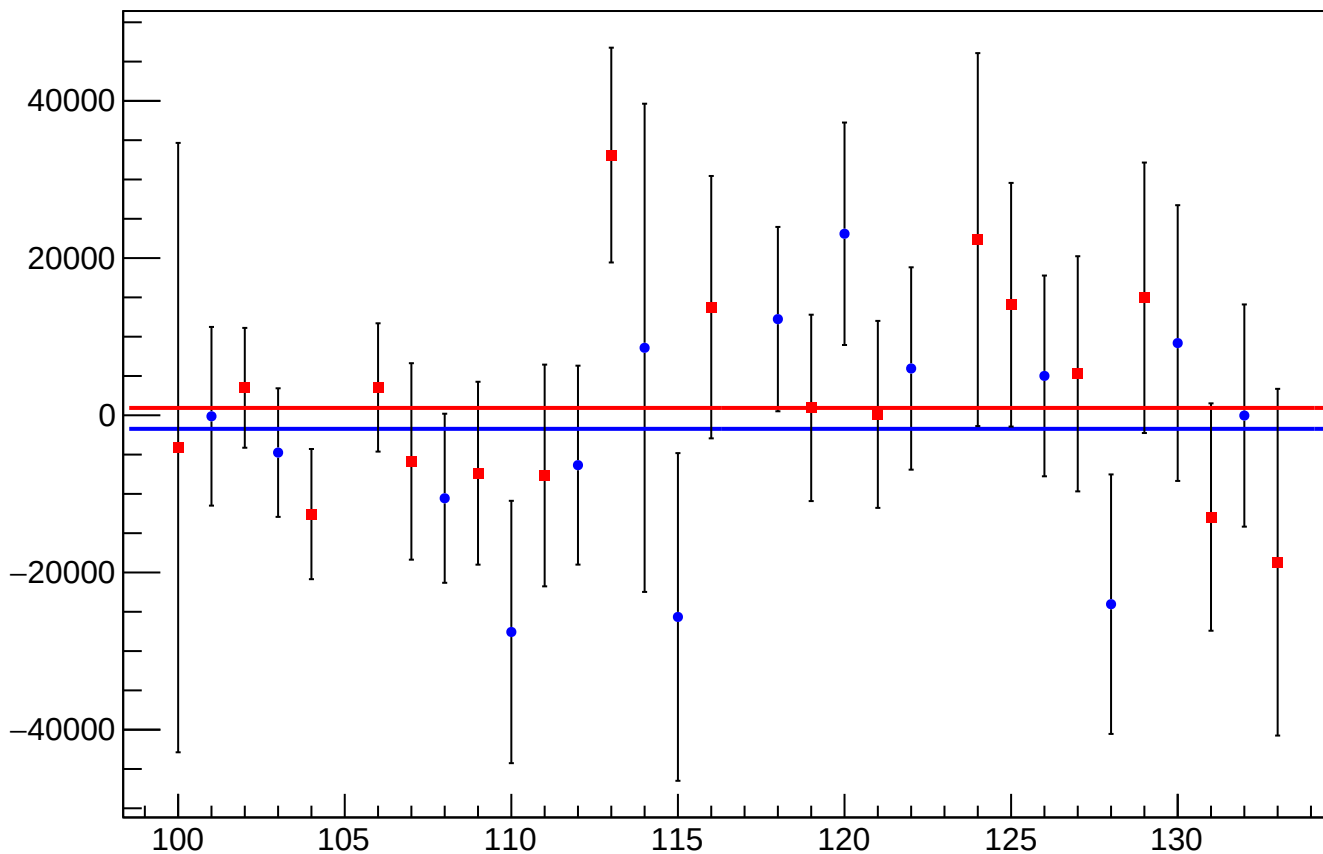
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2565.780+/-0.521  $\chi^2/\text{NDF}$ : 770145.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_dit\_correction\_mean vs Slug



Right In: -1724.851 $\pm$ 3516.868  $\chi^2$ /NDF: 12.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 935.737 $\pm$ 3014.764  $\chi^2$ /NDF: 14.2/16

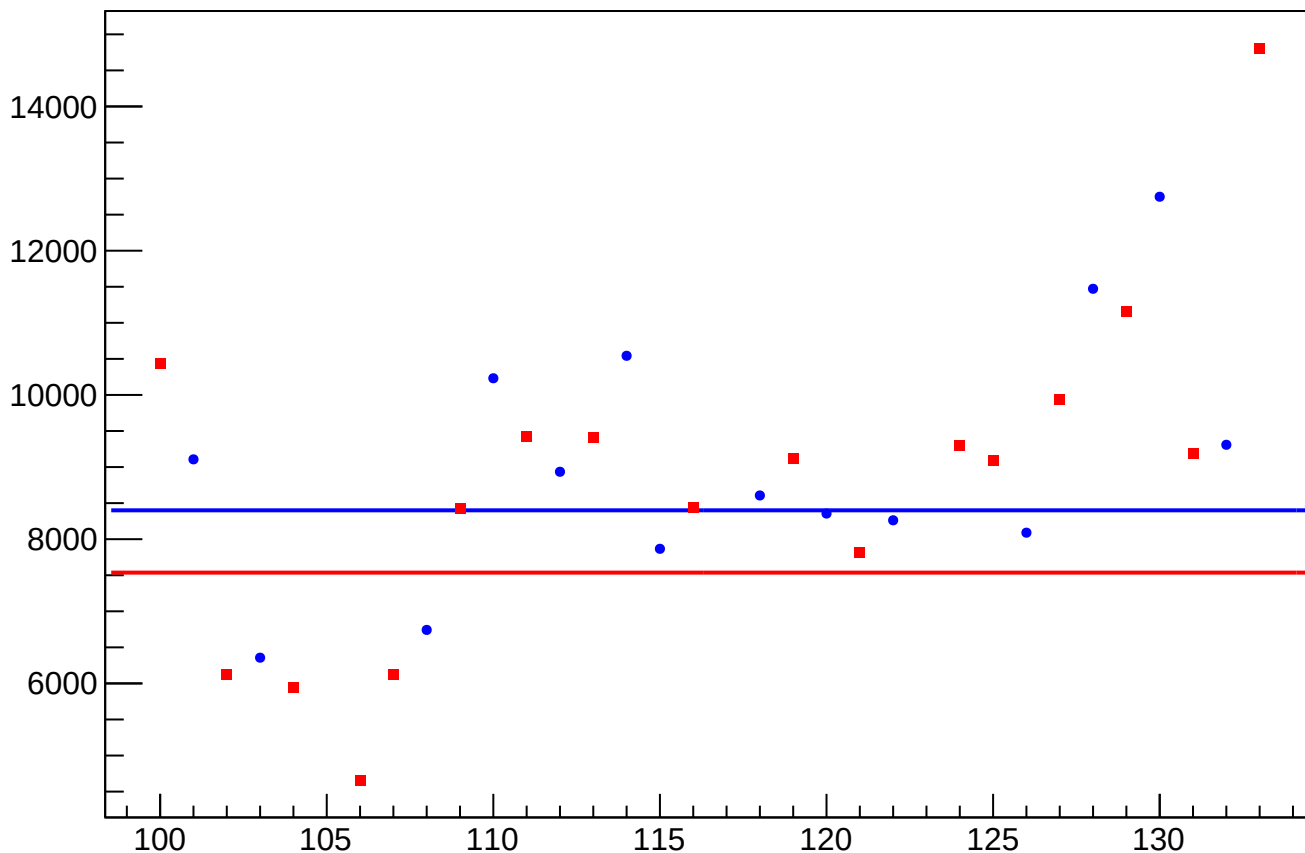
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -191.232 $\pm$ 2288.881  $\chi^2$ /NDF: 26.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_dit\_correction\_rms vs Slug



Right In: 8400.160+/-2.487  $\chi^2/\text{NDF}$ : 420991.5/13

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: 7536.591+/-2.132  $\chi^2/\text{NDF}$ : 969698.7/16

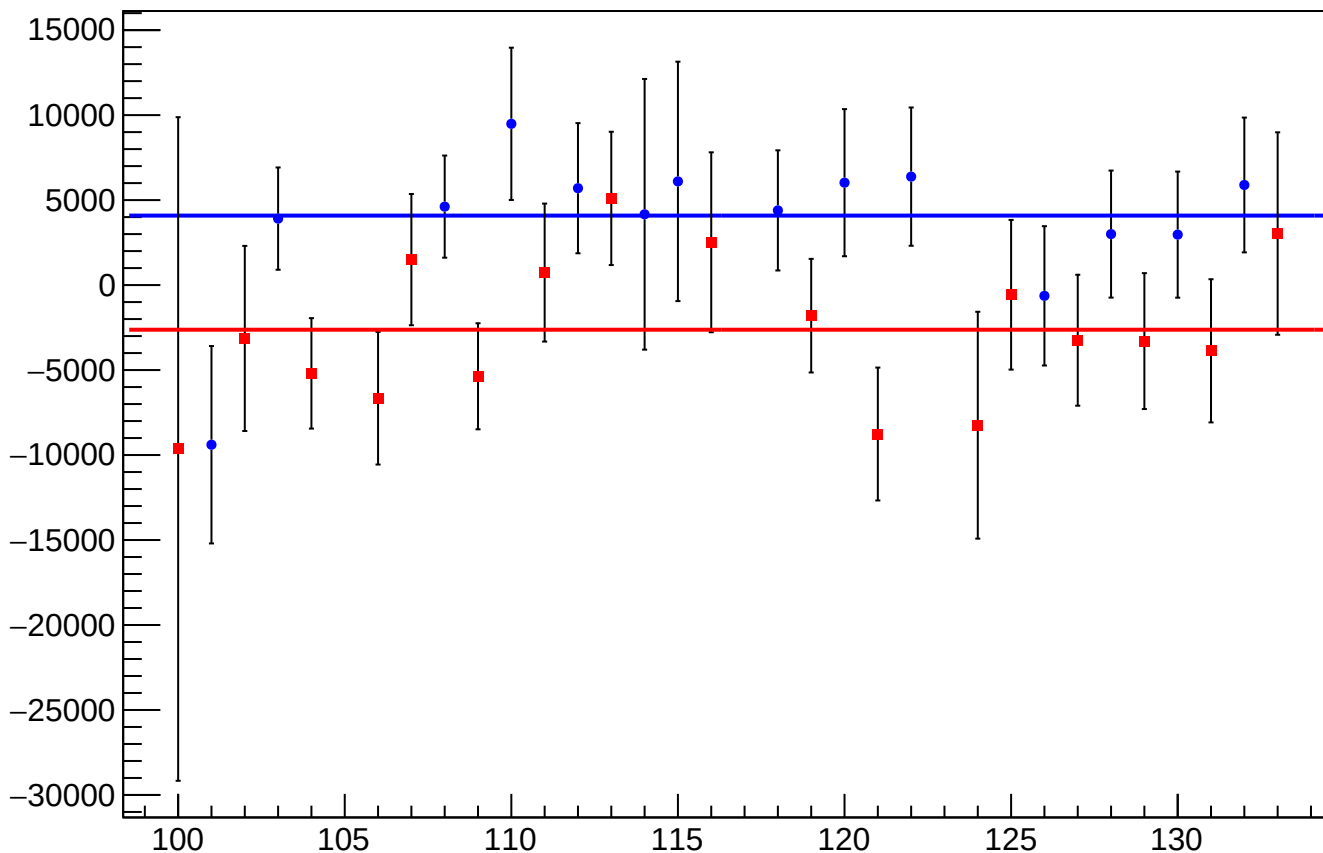
All: 7902.380+/-1.618  $\chi^2/\text{NDF}$ : 1460200.9/30

- 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\_atr2\_mean vs Slug



Right In: 4088.365+/-1074.511  $\chi^2/\text{NDF}$ : 9.4/13

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

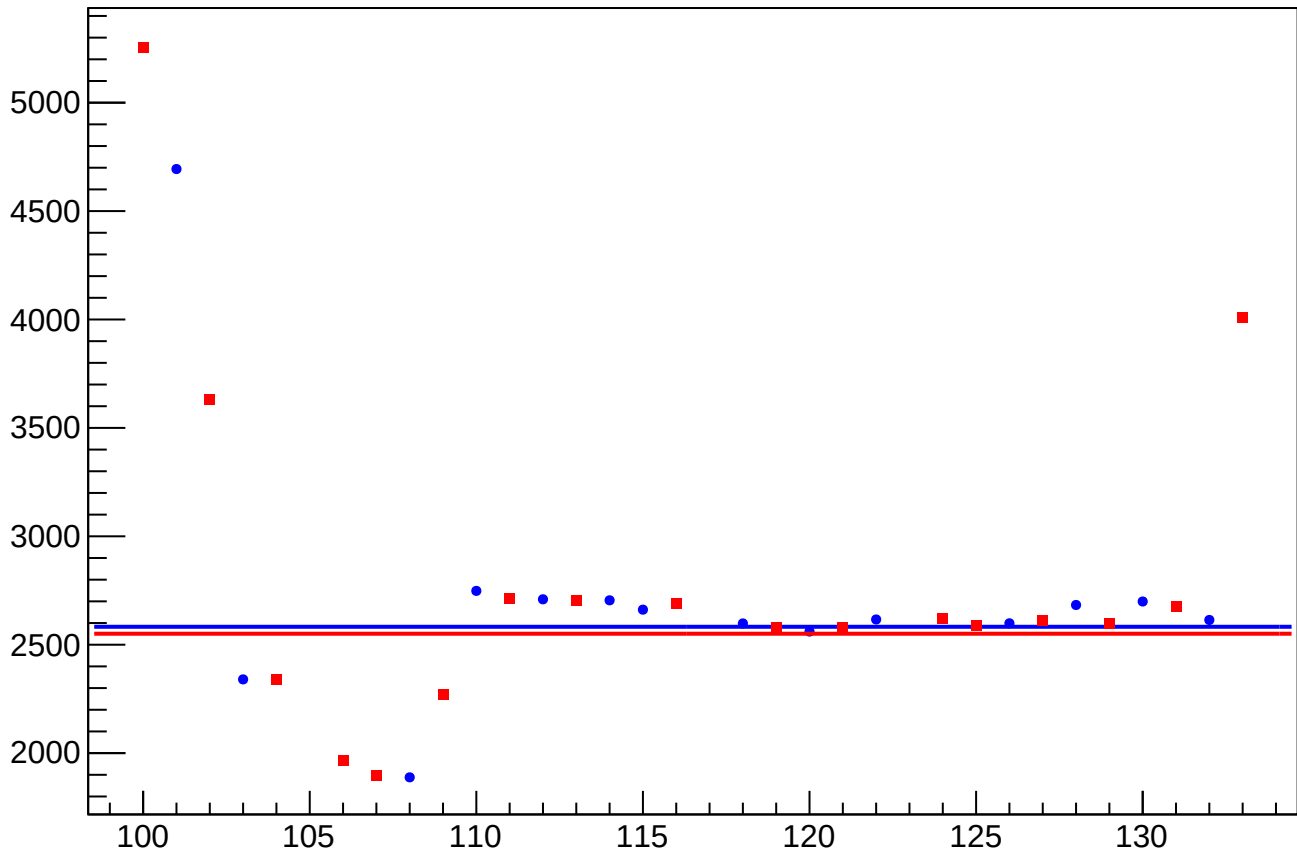
Right Out: -2626.608+/-1014.637  $\chi^2/\text{NDF}$ : 13.7/16

All: 538.587+/-737.716  $\chi^2/\text{NDF}$ : 43.8/30

- 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\_atr2\_rms vs Slug



Right In: 2582.744+/-0.760  $\chi^2/\text{NDF}$ : 393669.6/13

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

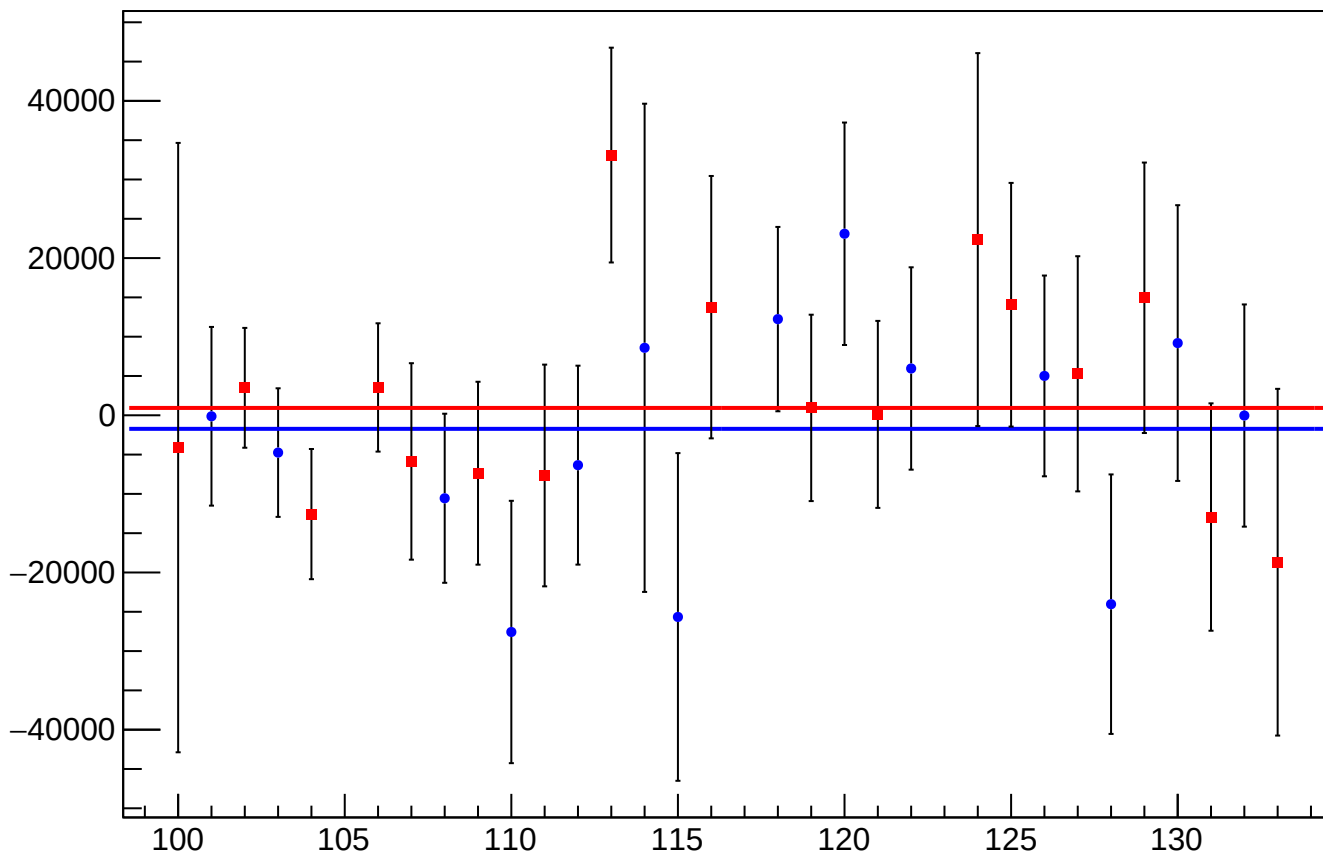
Right Out: 2550.673+/-0.717  $\chi^2/\text{NDF}$ : 375533.0/16

All: 2565.780+/-0.521  $\chi^2/\text{NDF}$ : 770145.0/30

- 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\_atr2\_eigen\_dit\_correction\_mean vs Slug



Right In:  $-1724.837 \pm 3516.860$   $\chi^2/\text{NDF}$ : 12.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $935.732 \pm 3014.758$   $\chi^2/\text{NDF}$ : 14.2/16

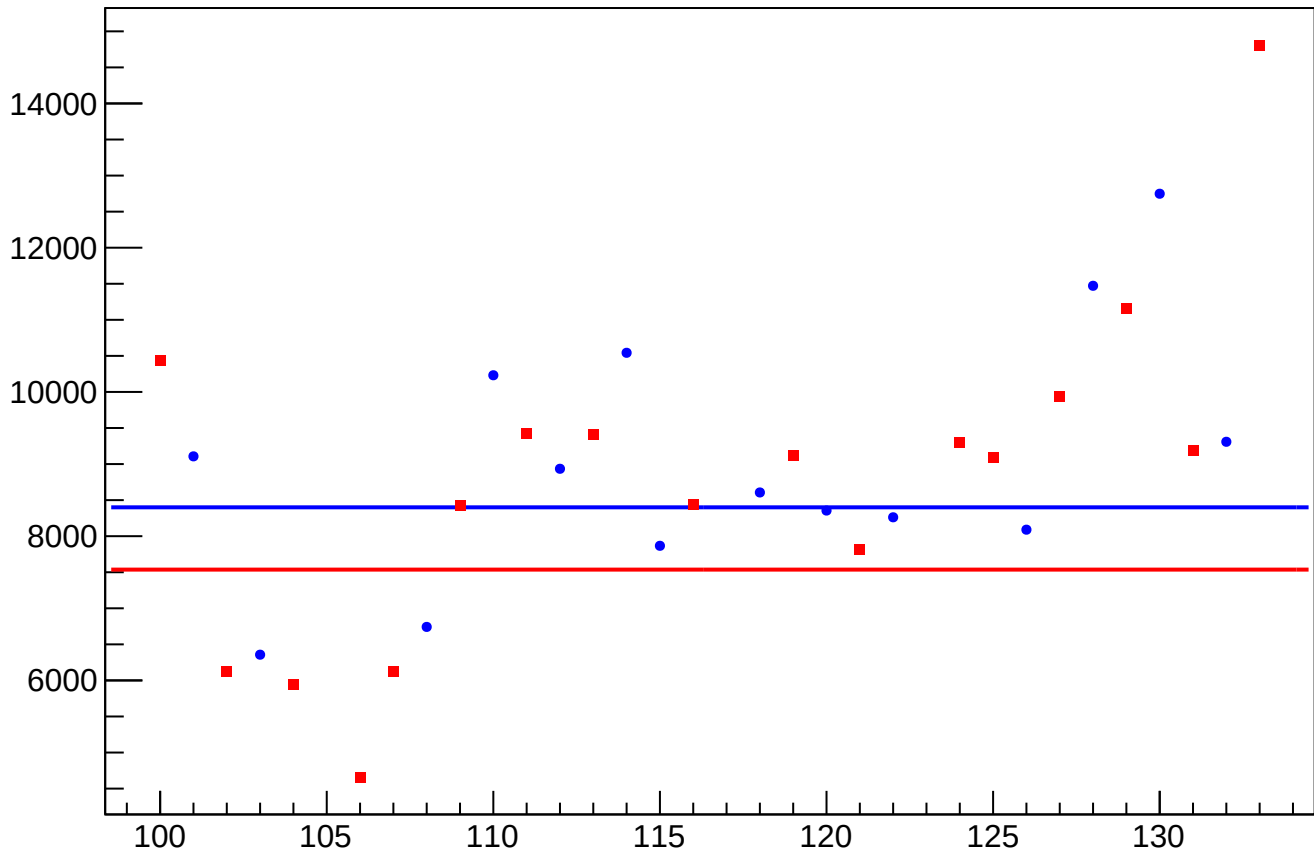
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-191.229 \pm 2288.876$   $\chi^2/\text{NDF}$ : 26.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_dit\_correction\_rms vs Slug



Right In: 8400.143+/-2.487  $\chi^2/\text{NDF}$ : 420986.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7536.576+/-2.132  $\chi^2/\text{NDF}$ : 969694.3/16

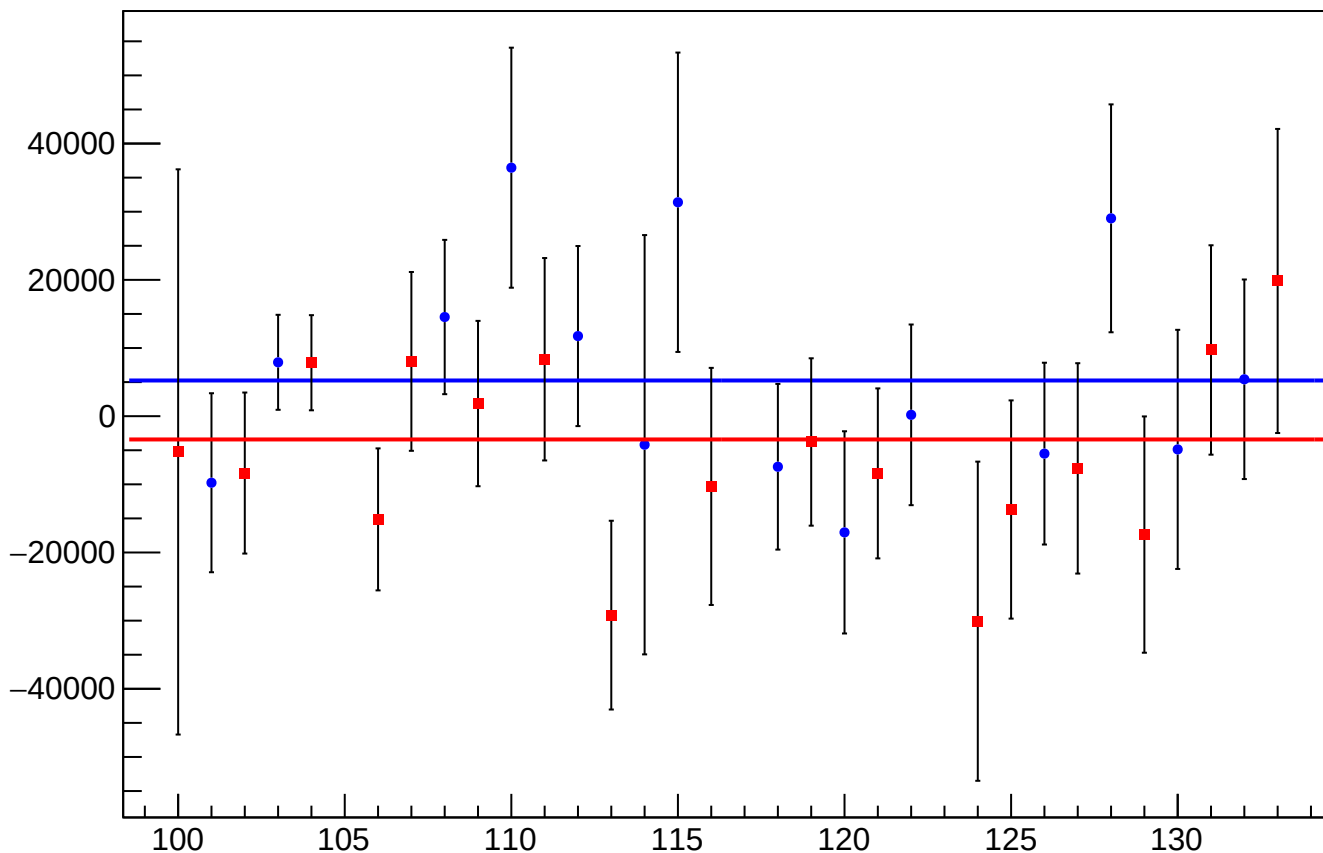
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7902.365+/-1.618  $\chi^2/\text{NDF}$ : 1460191.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_mean vs Slug



Right In: 5236.976+/-3526.775  $\chi^2/\text{NDF}$ : 13.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3414.735+/-3232.334  $\chi^2/\text{NDF}$ : 13.7/16

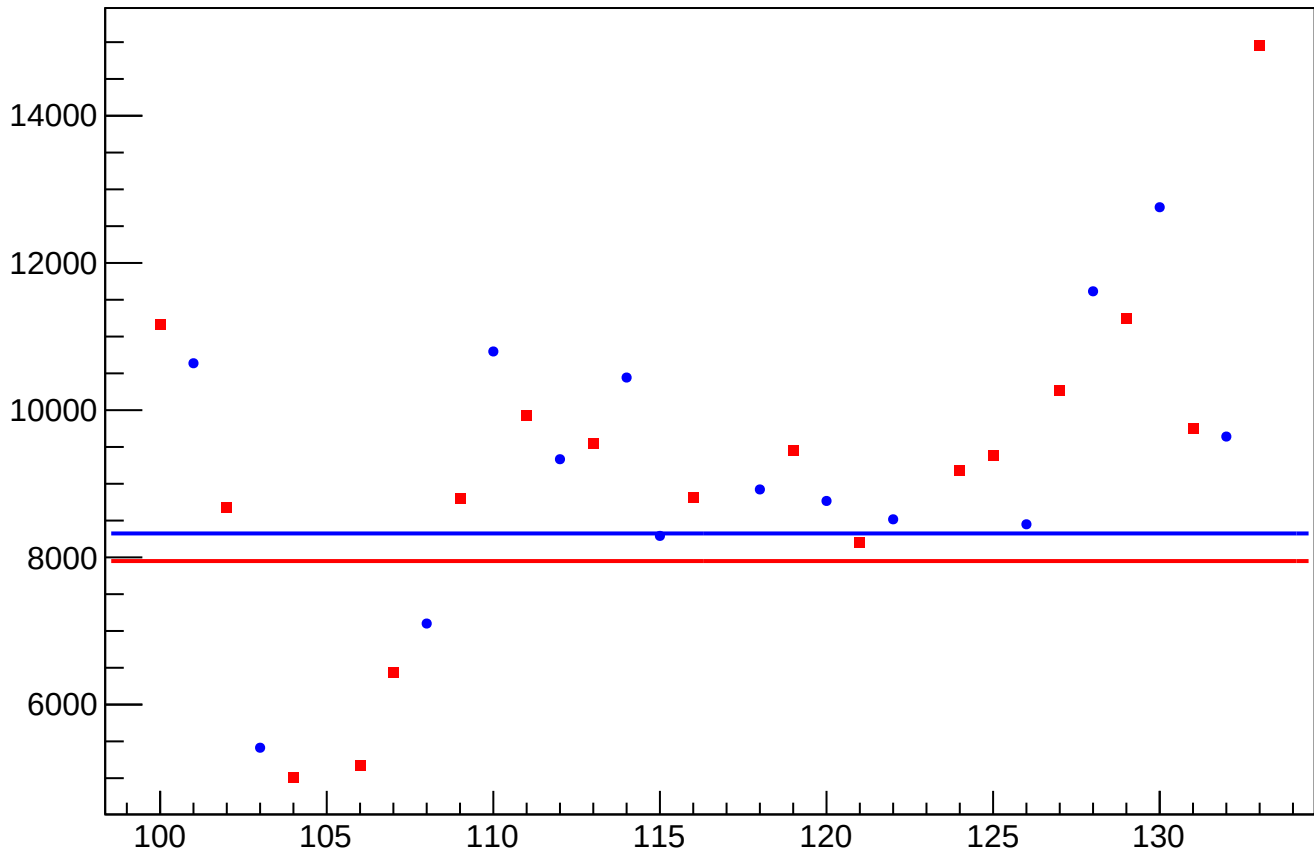
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 534.947+/-2382.911  $\chi^2/\text{NDF}$ : 30.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_rms vs Slug



Right In: 8325.024+/-2.494  $\chi^2/\text{NDF}$ : 723479.3/13

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

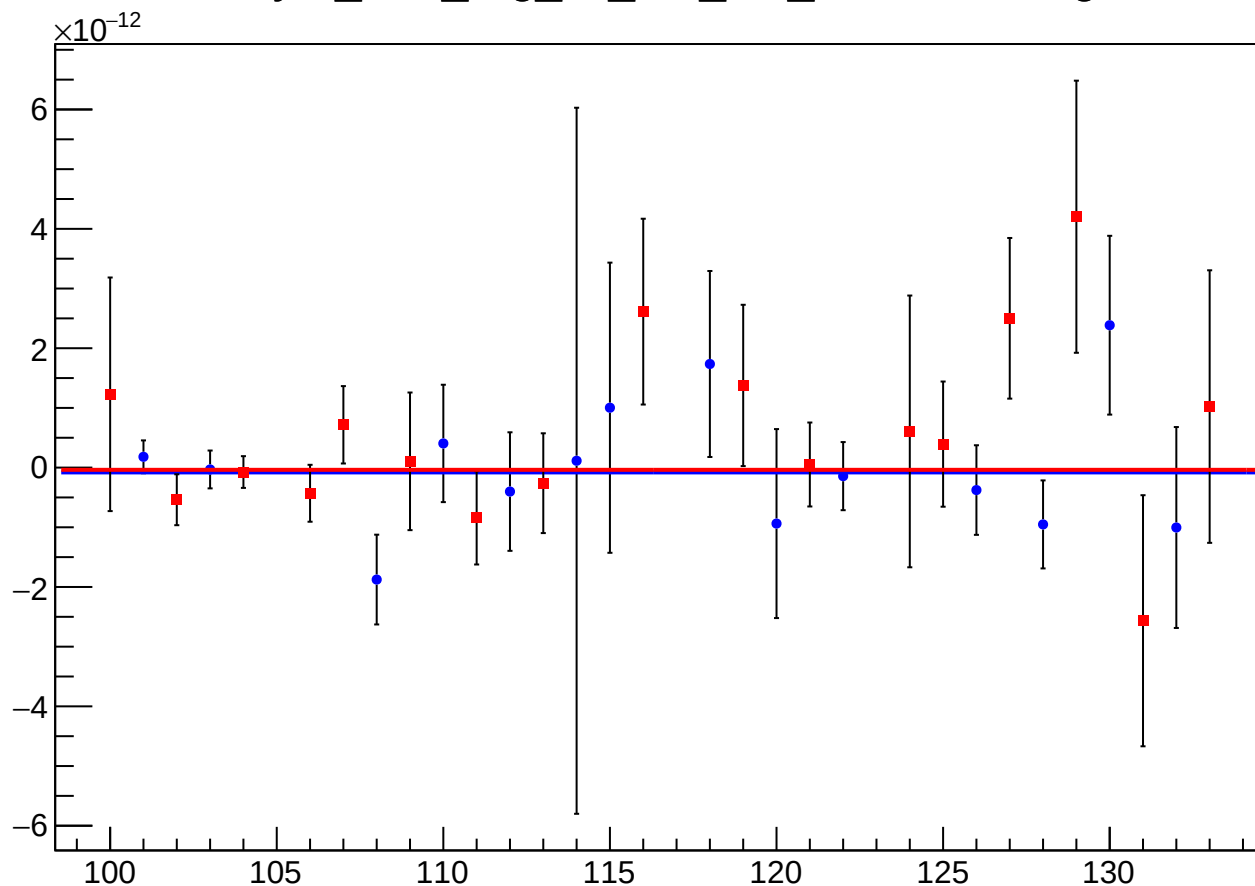
Right Out: 7949.911+/-2.286  $\chi^2/\text{NDF}$ : 1014306.4/16

All: 8121.154+/-1.685  $\chi^2/\text{NDF}$ : 1750082.4/30

- 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\_atr2\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.9/16

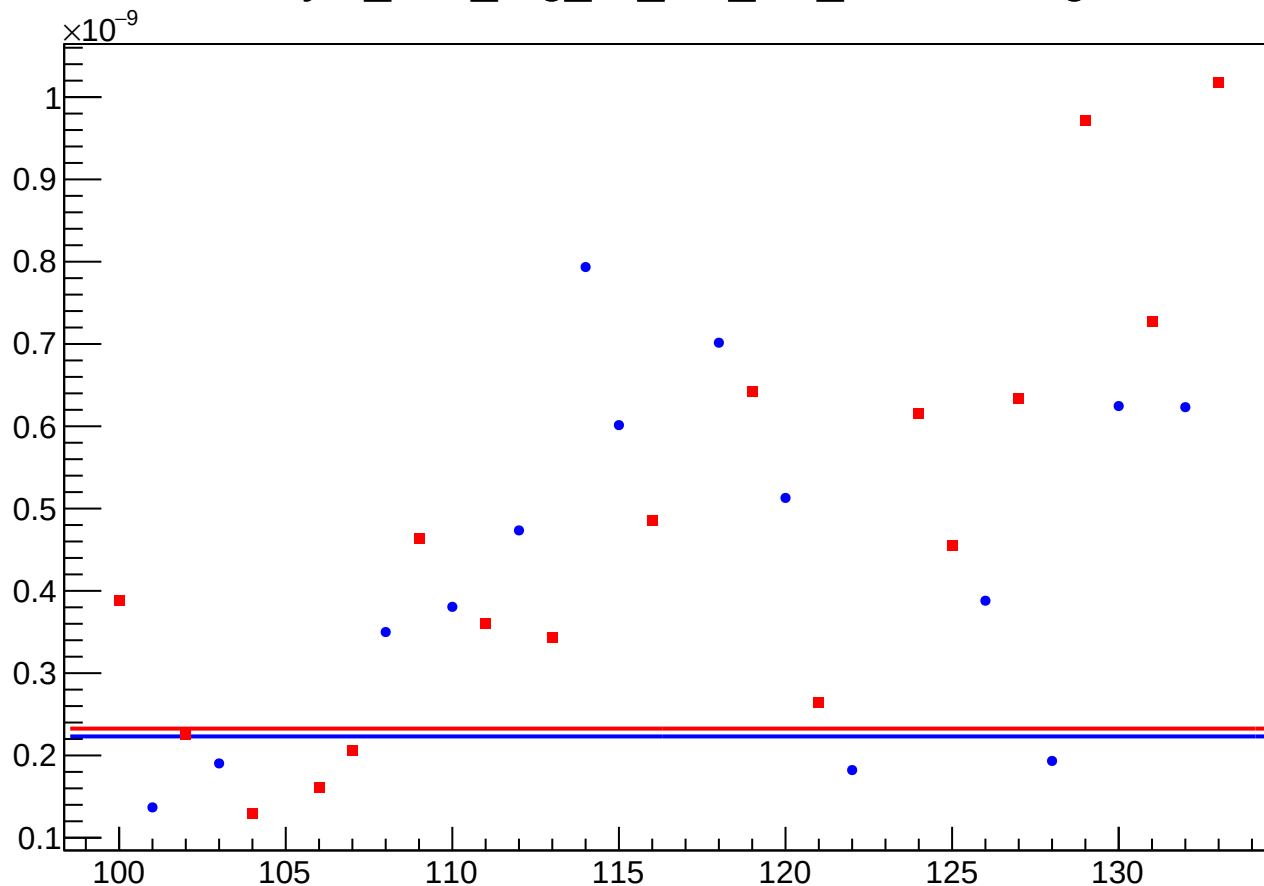
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 31.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1142797.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1656605.5/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

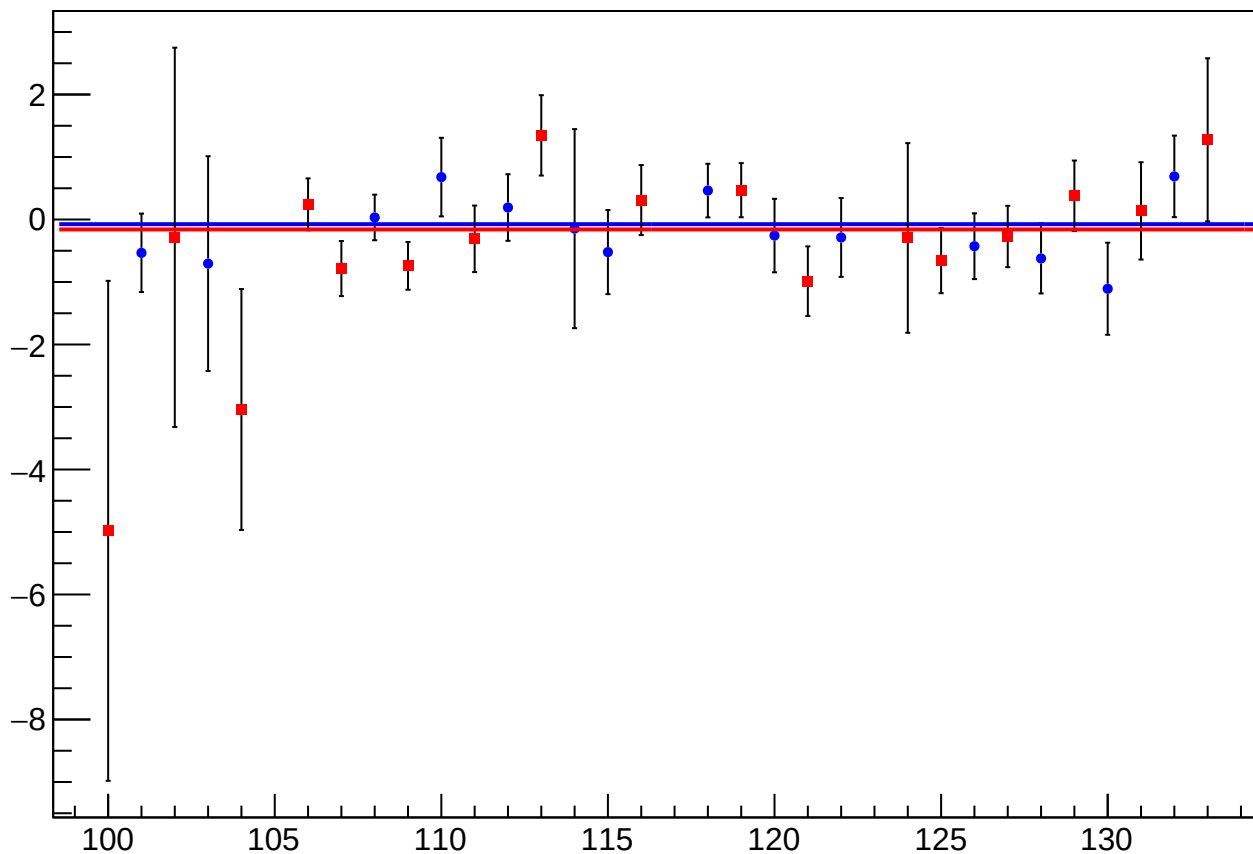
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2802627.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_atr2\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.075 \pm 0.156$   $\chi^2/\text{NDF}$ : 9.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.159 \pm 0.142$   $\chi^2/\text{NDF}$ : 22.8/16

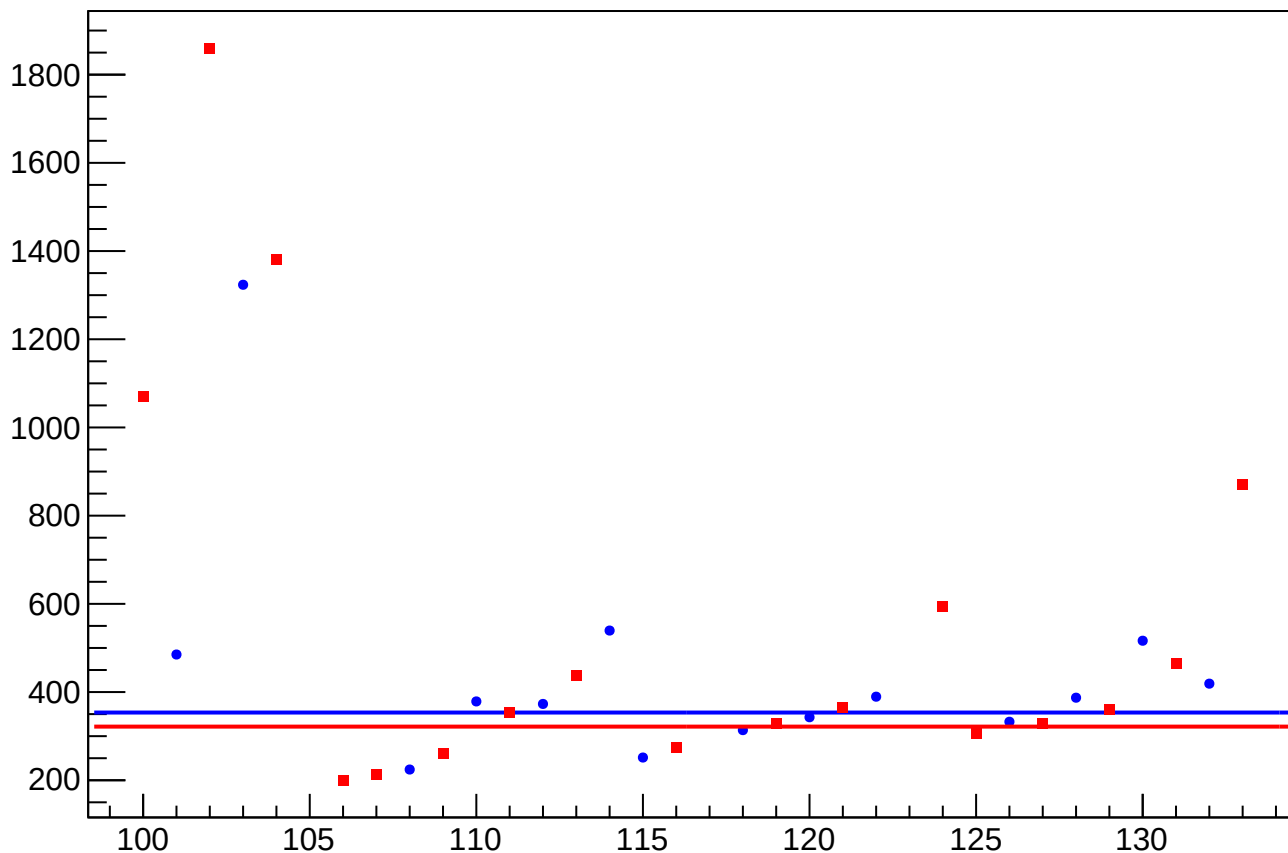
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.121 \pm 0.105$   $\chi^2/\text{NDF}$ : 32.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 353.561+/-0.111  $\chi^2/\text{NDF}$ : 1208336.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 321.648+/-0.100  $\chi^2/\text{NDF}$ : 2128812.7/16

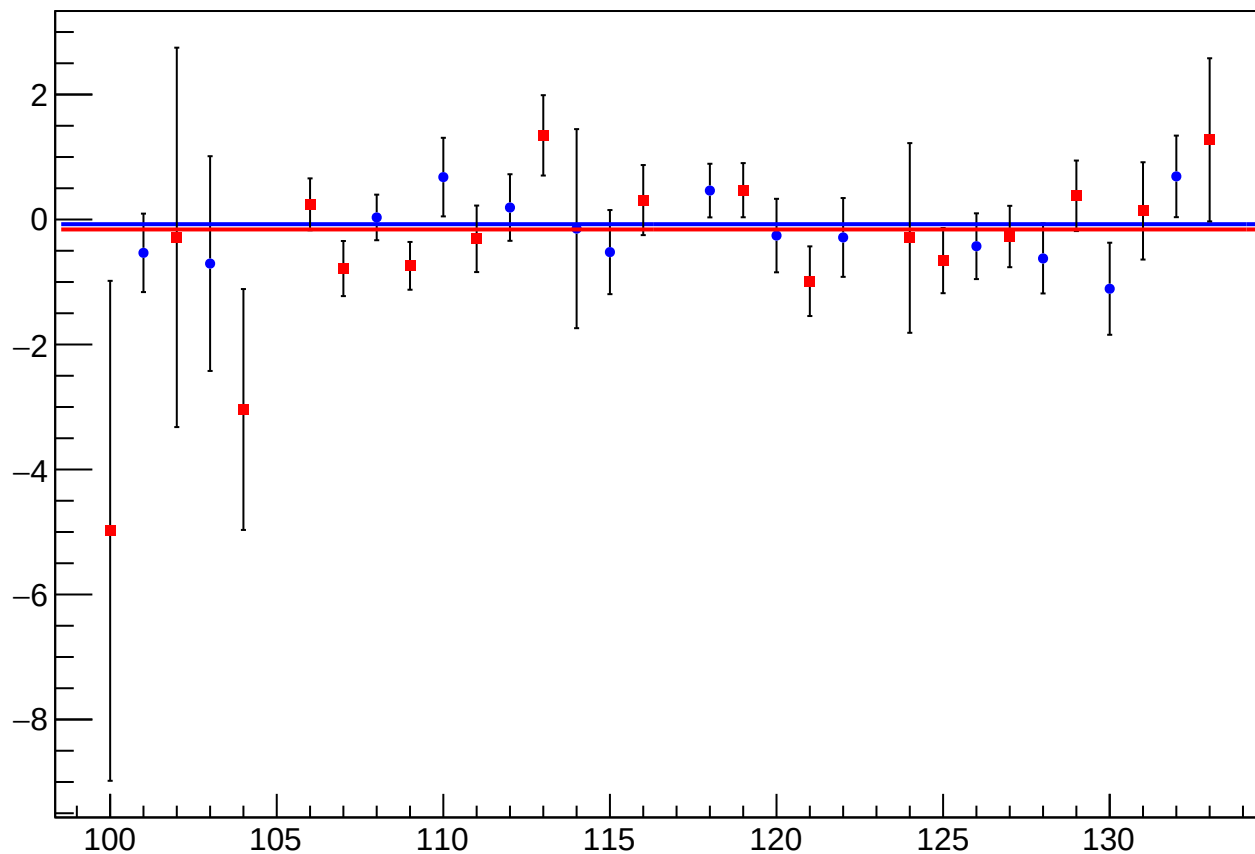
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 336.076+/-0.074  $\chi^2/\text{NDF}$ : 3382778.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.075 \pm 0.156$   $\chi^2/\text{NDF}$ : 9.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.159 \pm 0.142$   $\chi^2/\text{NDF}$ : 22.8/16

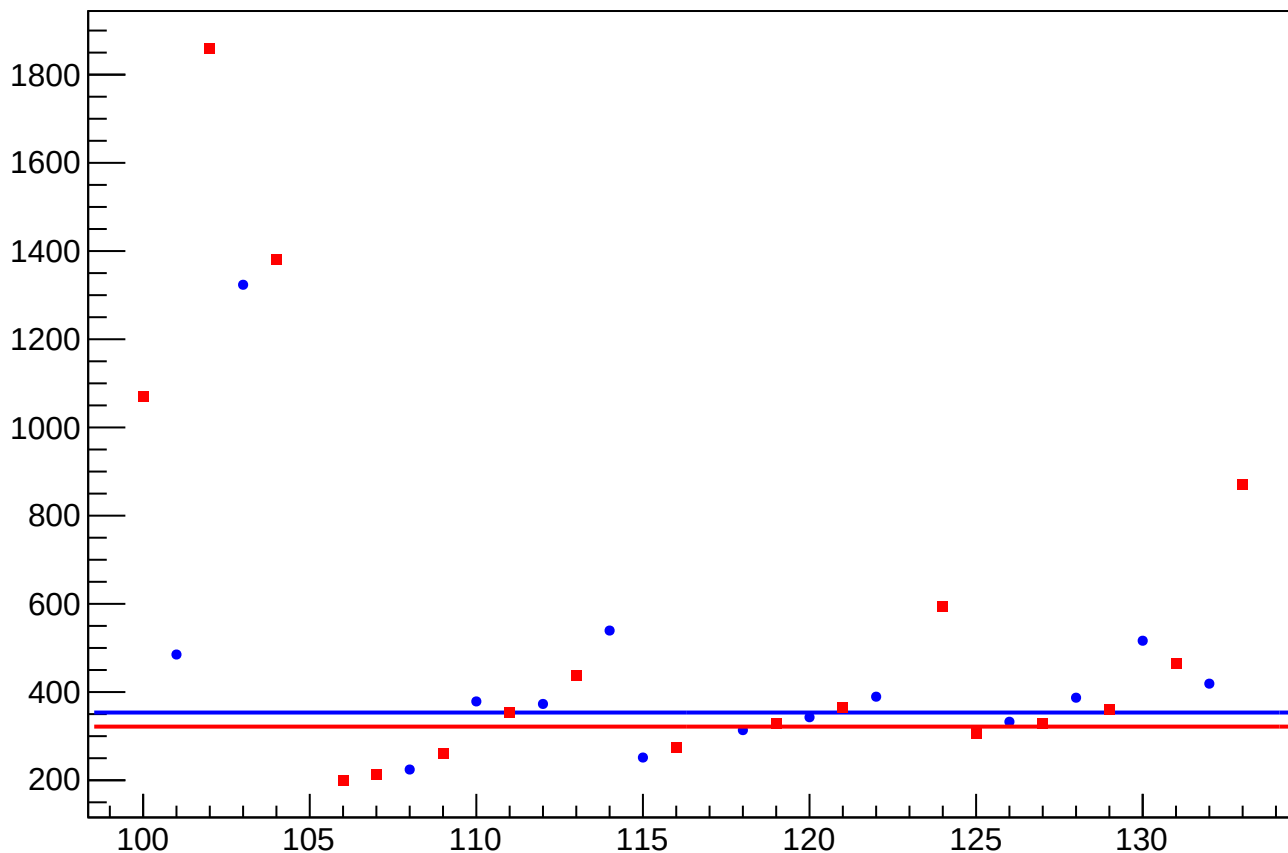
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.121 \pm 0.105$   $\chi^2/\text{NDF}$ : 32.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 353.561+/-0.111  $\chi^2/\text{NDF}$ : 1208336.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 321.648+/-0.100  $\chi^2/\text{NDF}$ : 2128812.7/16

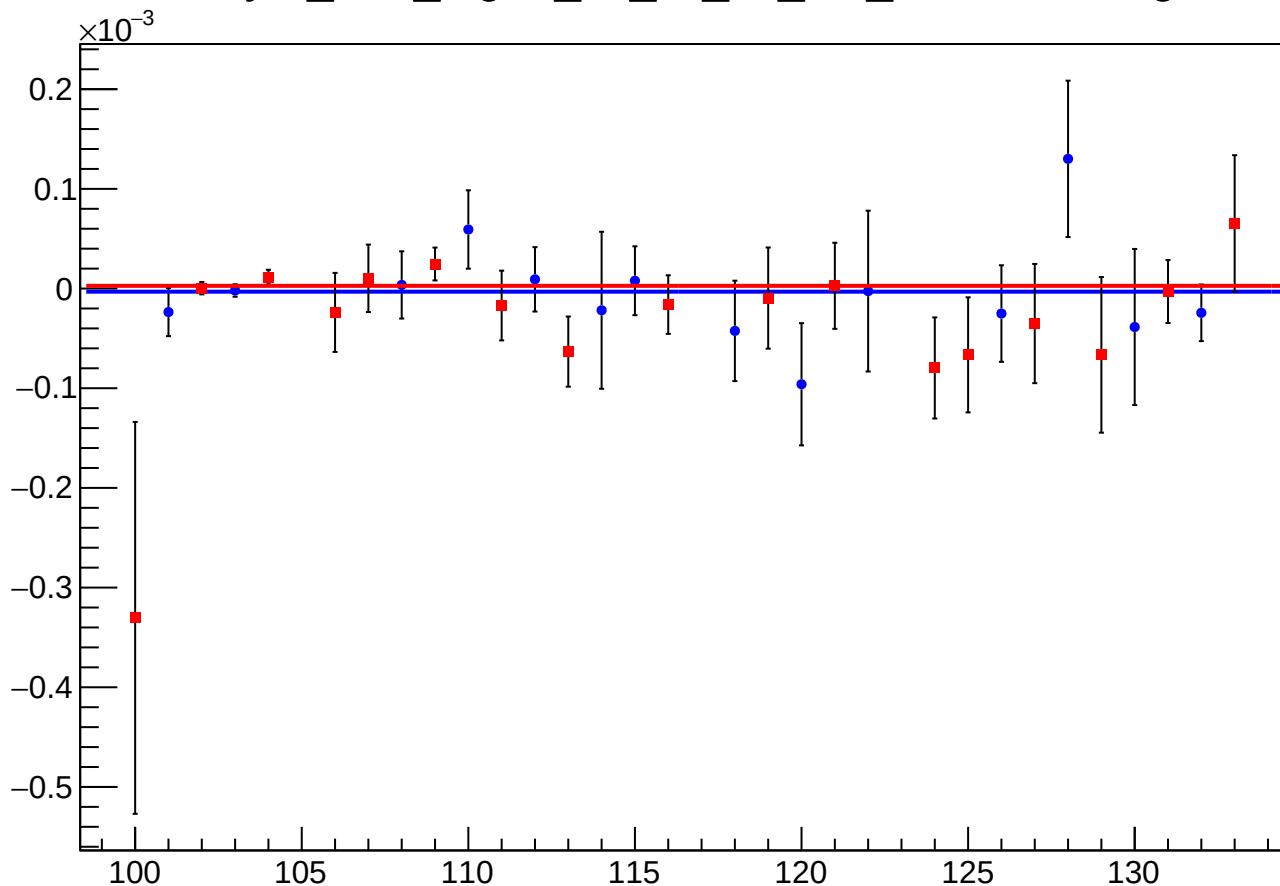
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 336.076+/-0.074  $\chi^2/\text{NDF}$ : 3382778.5/30

- 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+/-0.000  $\chi^2/\text{NDF}$ : 10.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.1/16

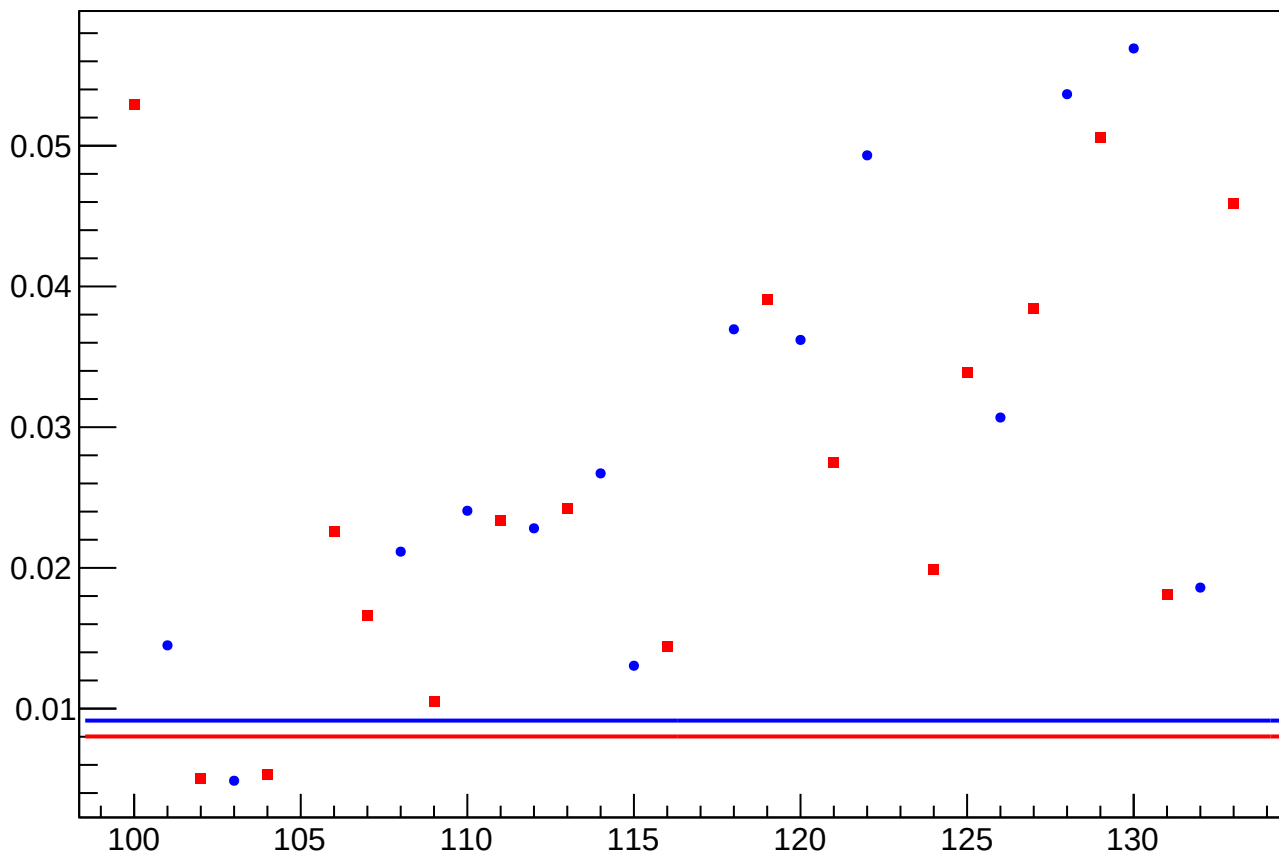
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 5552219.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 5791532.0/16

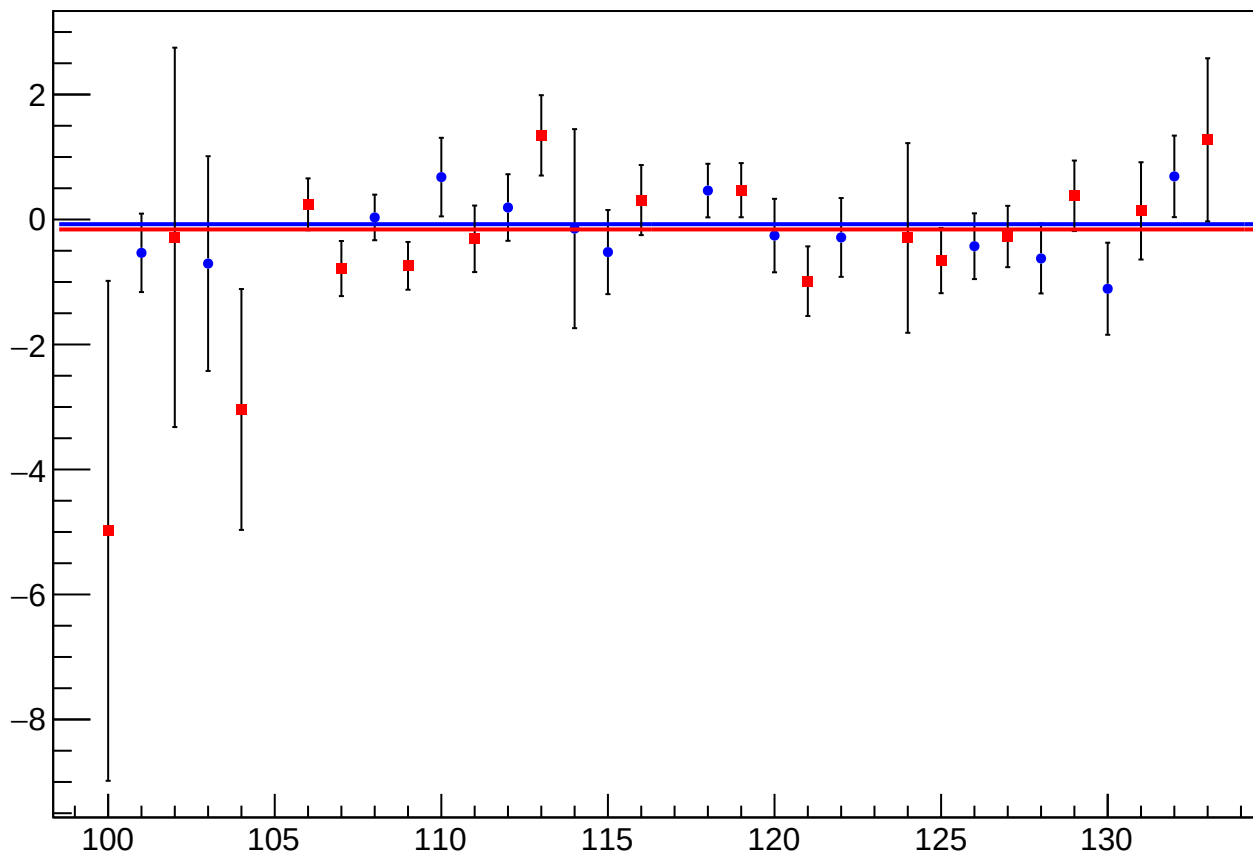
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 11396990.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.075 \pm 0.156$   $\chi^2/\text{NDF}$ : 9.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.159 \pm 0.142$   $\chi^2/\text{NDF}$ : 22.8/16

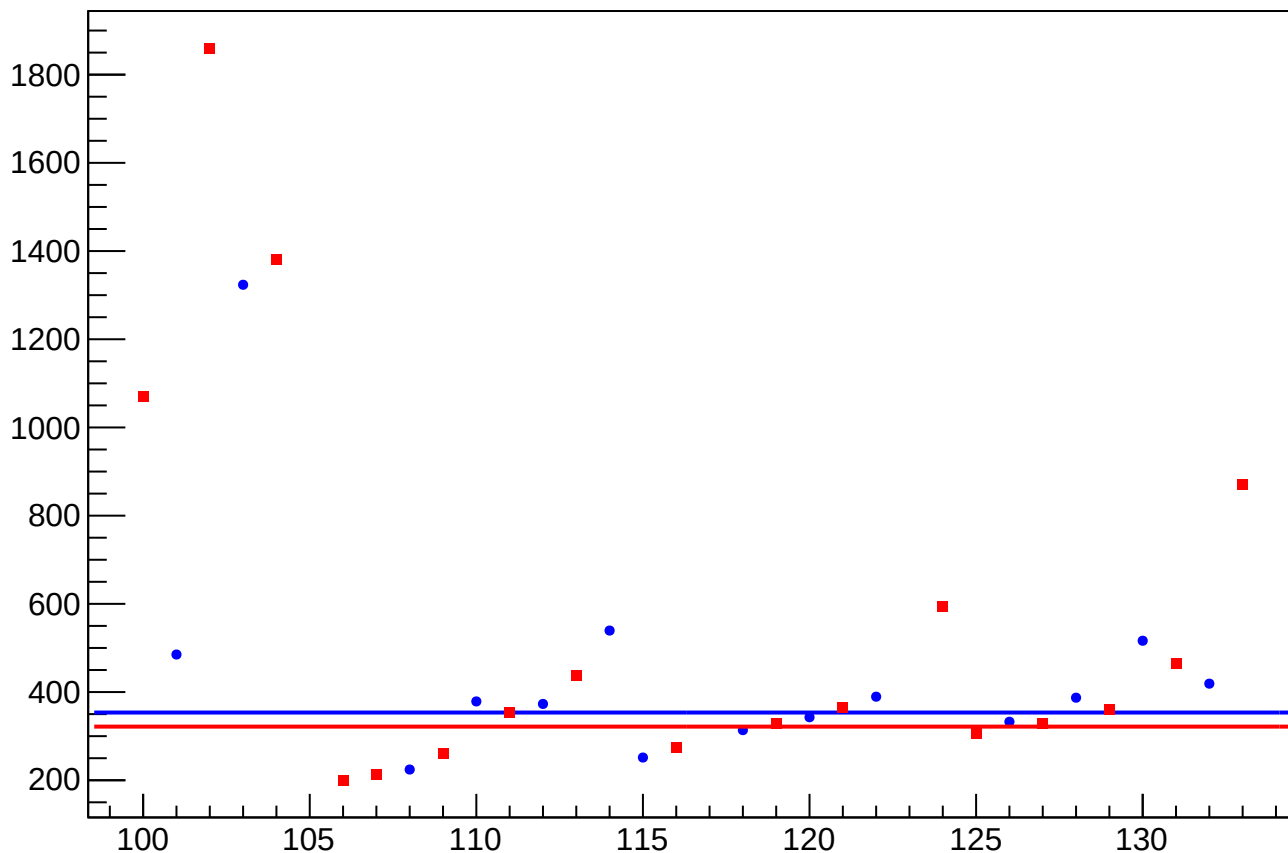
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.121 \pm 0.105$   $\chi^2/\text{NDF}$ : 32.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 353.557+/-0.111  $\chi^2/\text{NDF}$ : 1208325.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 321.646+/-0.100  $\chi^2/\text{NDF}$ : 2128785.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

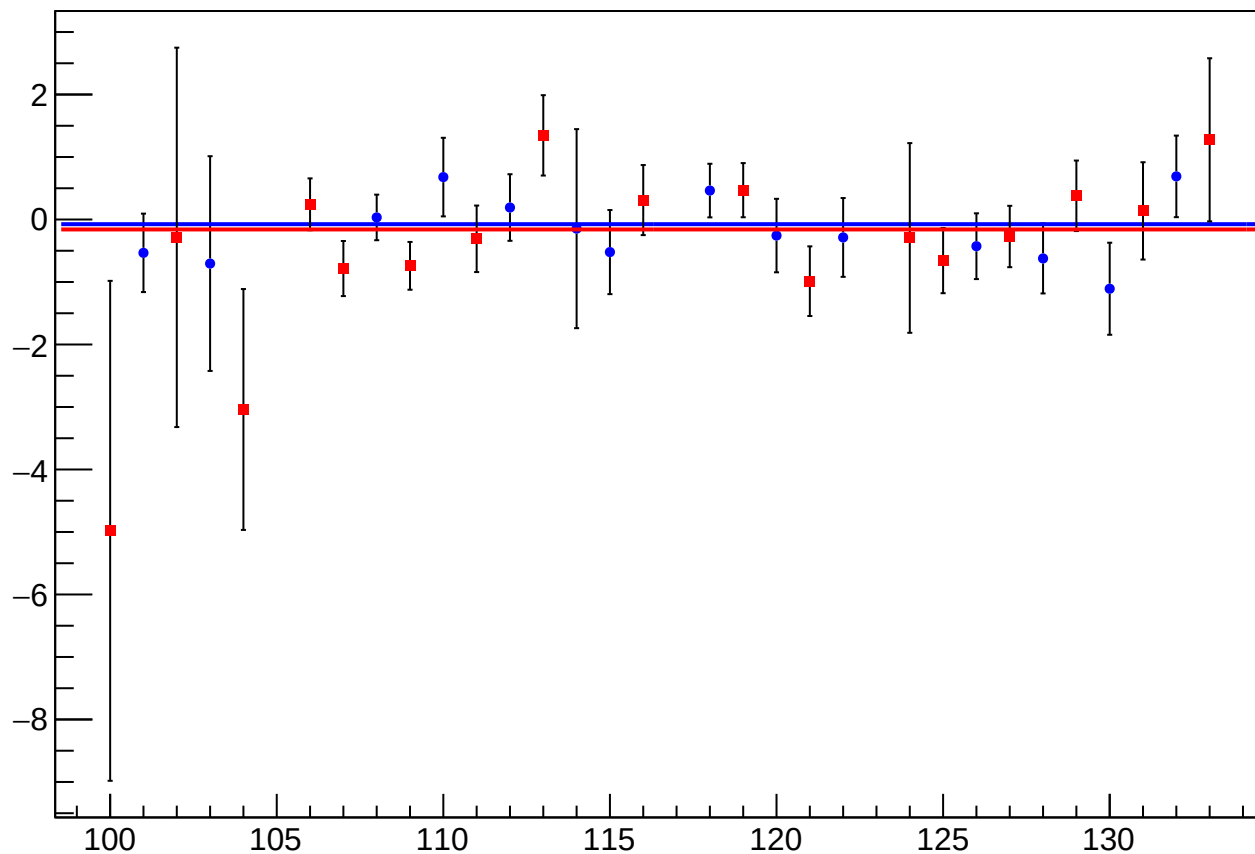
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 336.073+/-0.074  $\chi^2/\text{NDF}$ : 3382733.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atr2\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.075+/-0.156  $\chi^2/\text{NDF}$ : 9.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.159+/-0.142  $\chi^2/\text{NDF}$ : 22.8/16

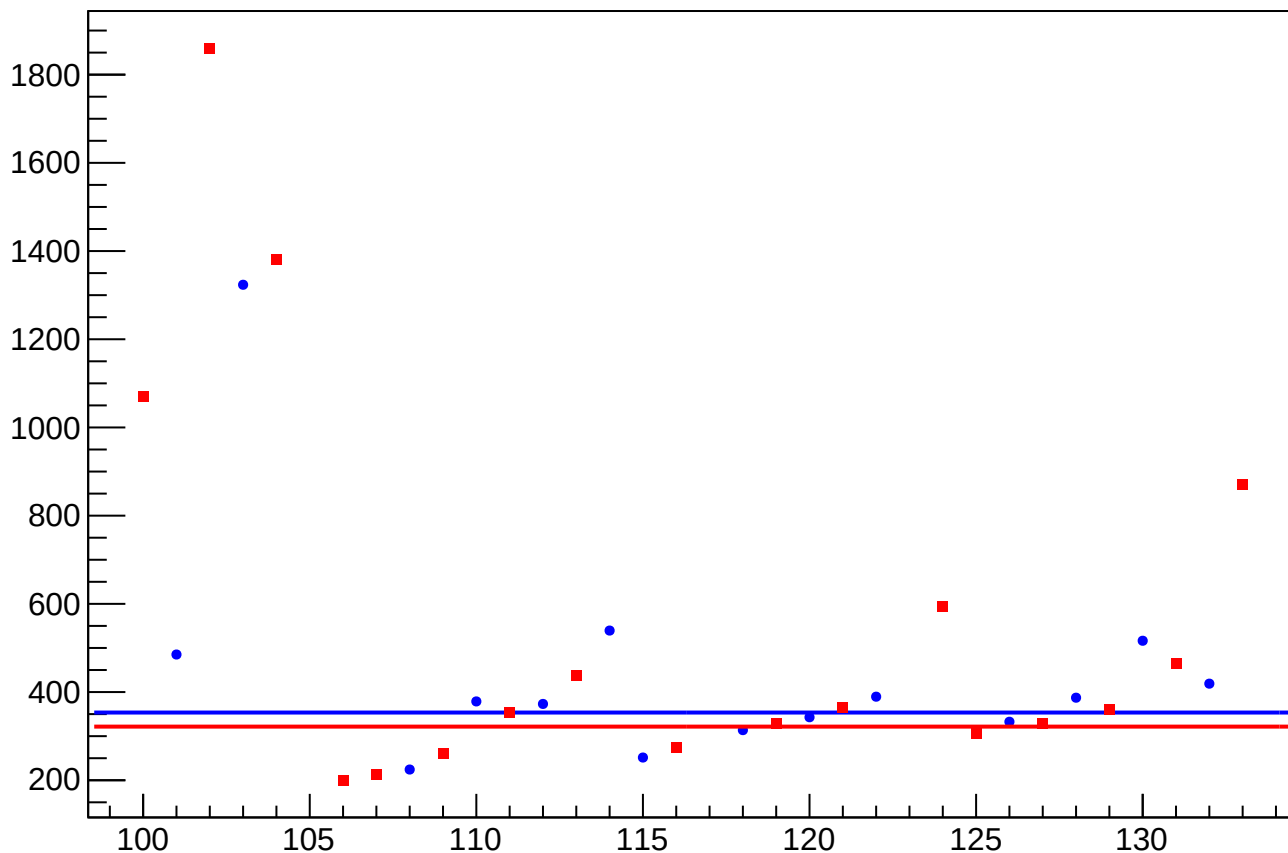
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.121+/-0.105  $\chi^2/\text{NDF}$ : 32.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr2\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 353.557+/-0.111  $\chi^2/\text{NDF}$ : 1208325.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 321.646+/-0.100  $\chi^2/\text{NDF}$ : 2128785.3/16

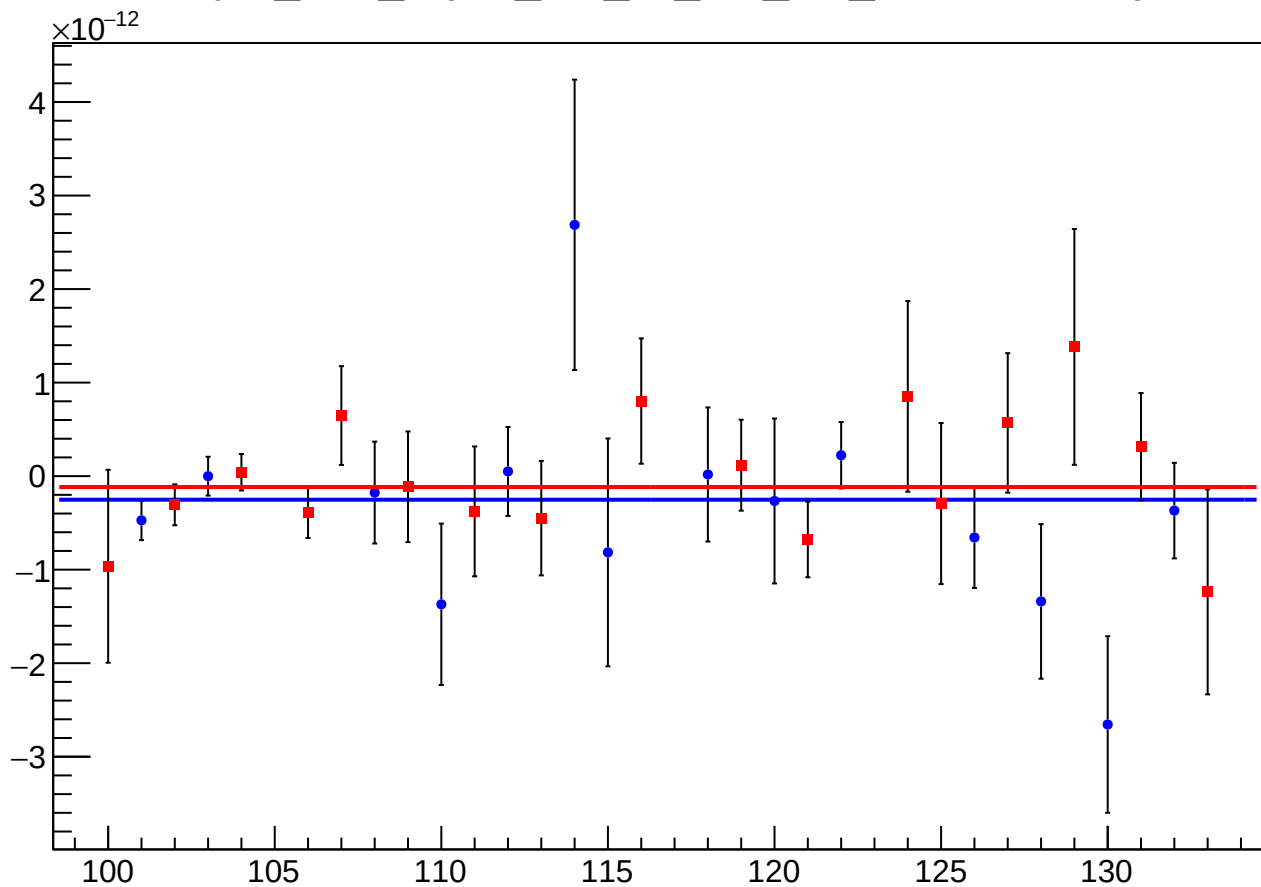
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 336.073+/-0.074  $\chi^2/\text{NDF}$ : 3382733.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 19.2/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 14.4/16

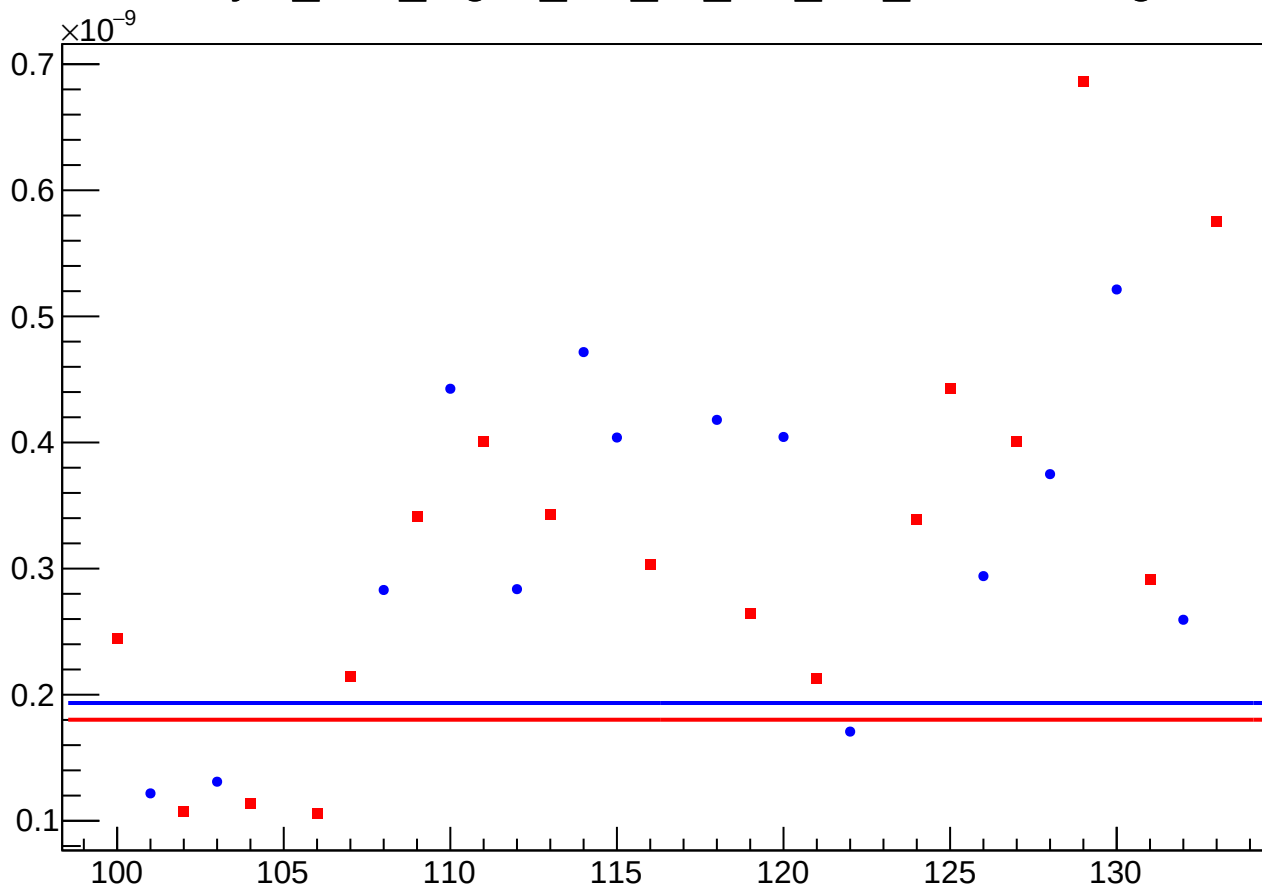
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 34.4/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1587813.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2313942.9/16

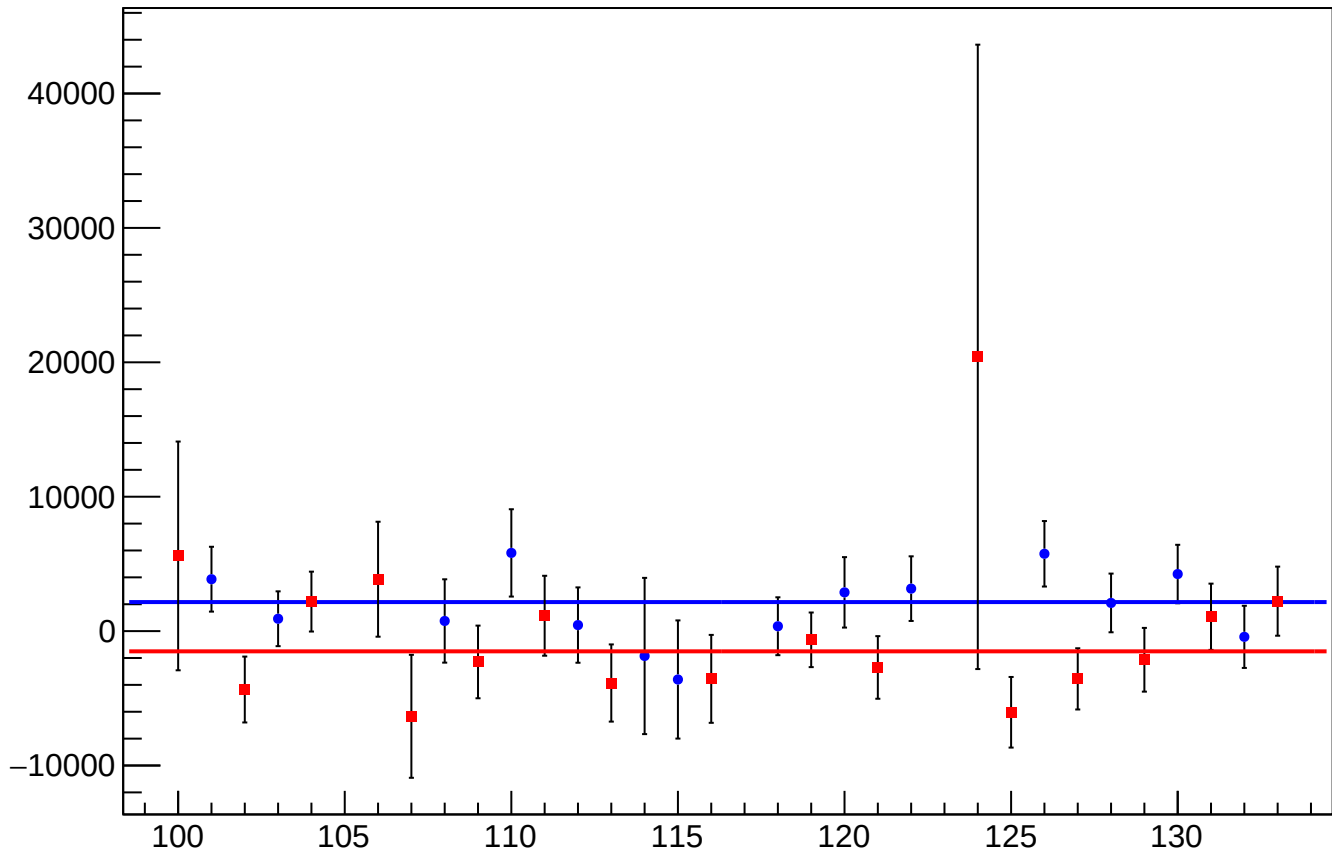
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3916610.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_mean vs Slug



Right In: 2160.493 $\pm$ 685.105  $\chi^2$ /NDF: 10.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1504.960 $\pm$ 672.865  $\chi^2$ /NDF: 17.8/16

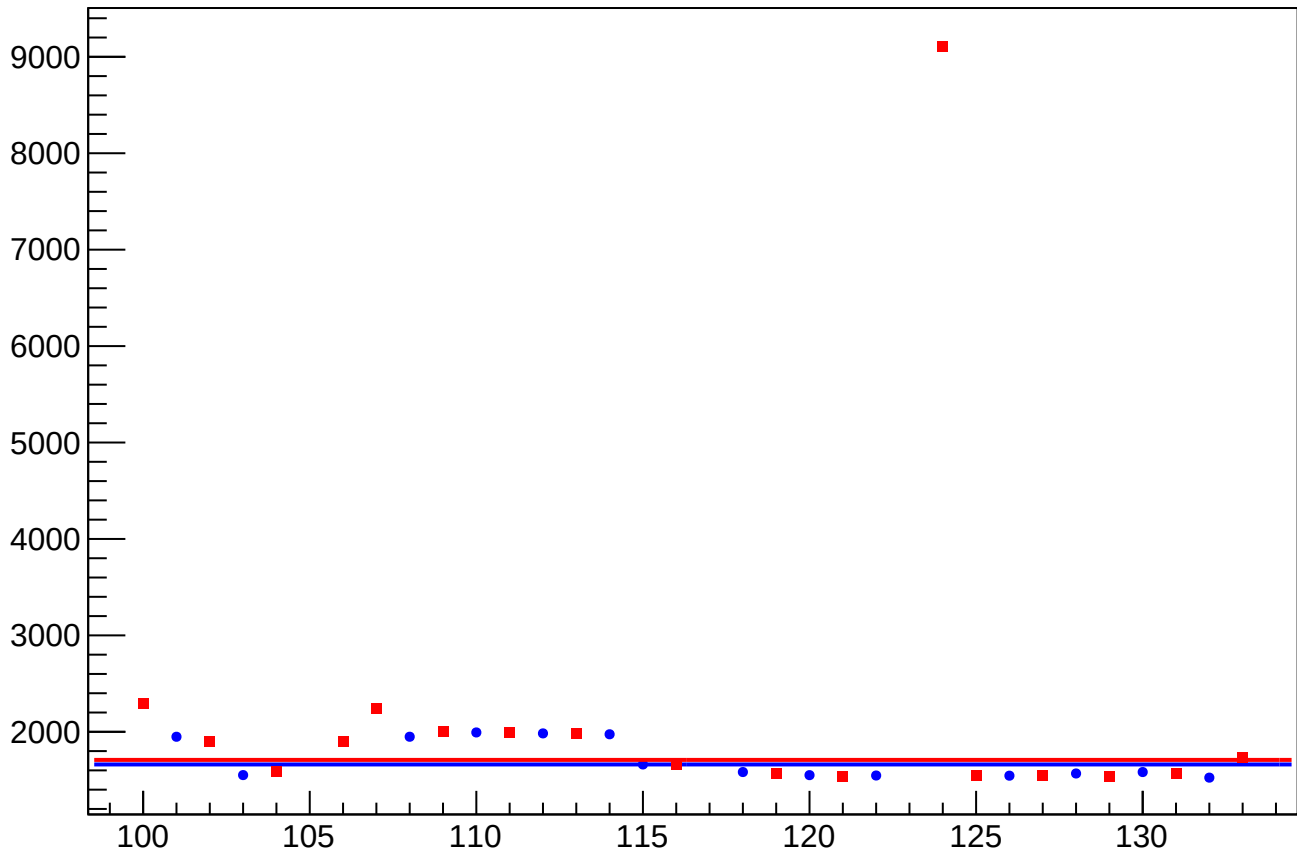
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 294.732 $\pm$ 480.056  $\chi^2$ /NDF: 42.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_avg\_rms vs Slug



Right In: 1661.449 $\pm$ 0.484  $\chi^2$ /NDF: 133142.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1708.671 $\pm$ 0.473  $\chi^2$ /NDF: 378294.1/16

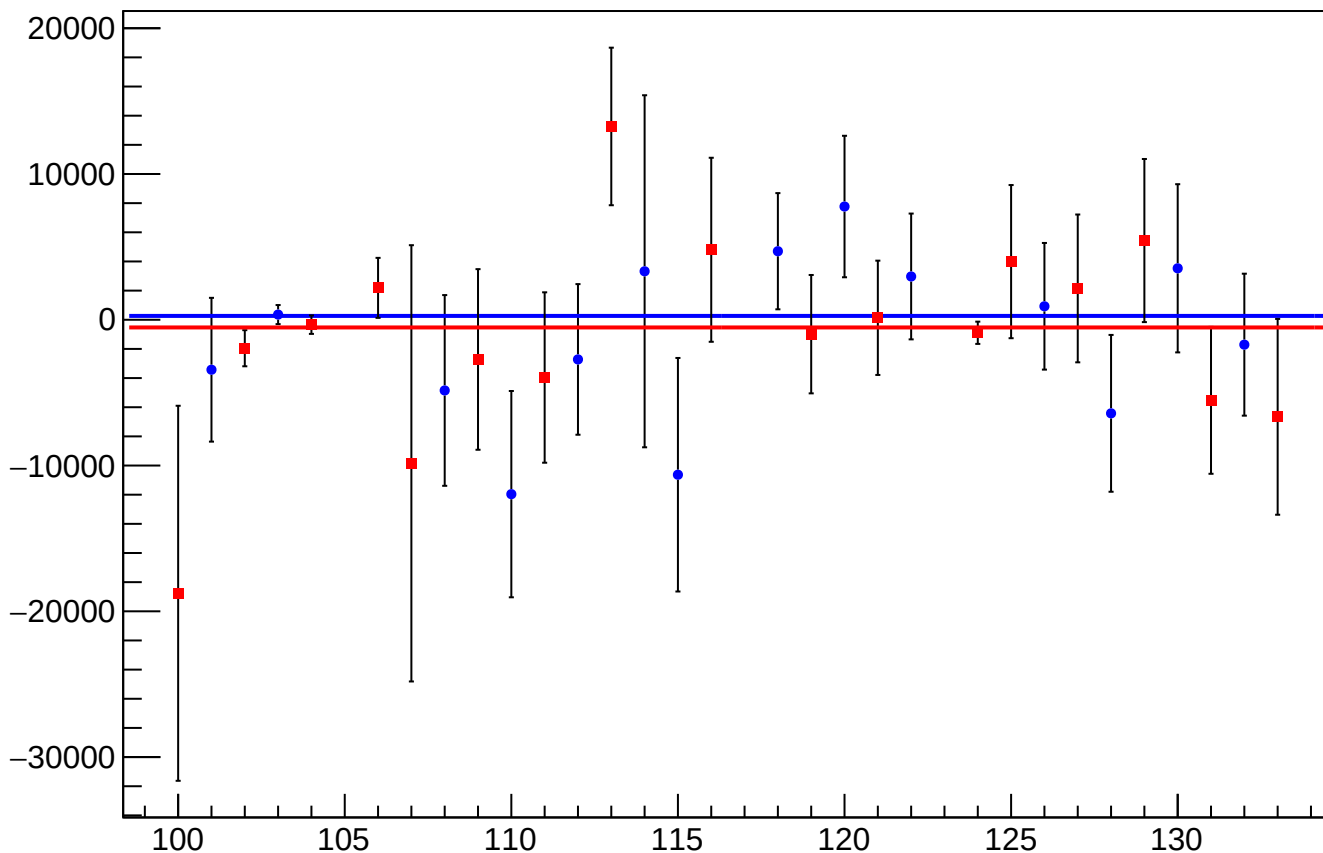
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1685.609 $\pm$ 0.339  $\chi^2$ /NDF: 516297.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_reg\_correction\_mean vs Slug



Right In: 264.510 $\pm$ 597.475  $\chi^2$ /NDF: 12.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -527.012 $\pm$ 426.038  $\chi^2$ /NDF: 17.5/16

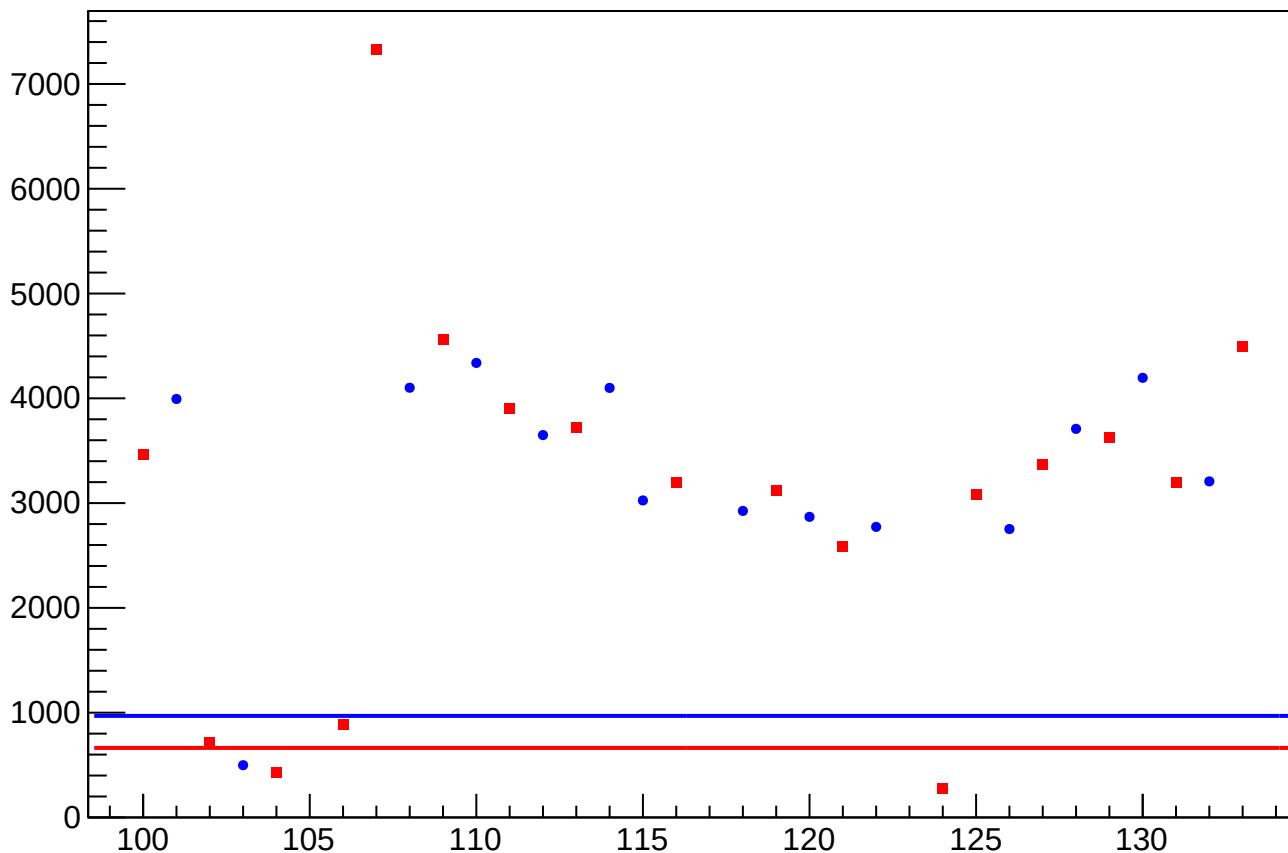
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -260.211 $\pm$ 346.882  $\chi^2$ /NDF: 31.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_reg\_correction\_rms vs Slug



Right In: 969.306+/-0.422  $\chi^2/\text{NDF}$ : 6543755.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 663.734+/-0.301  $\chi^2/\text{NDF}$ : 7589190.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

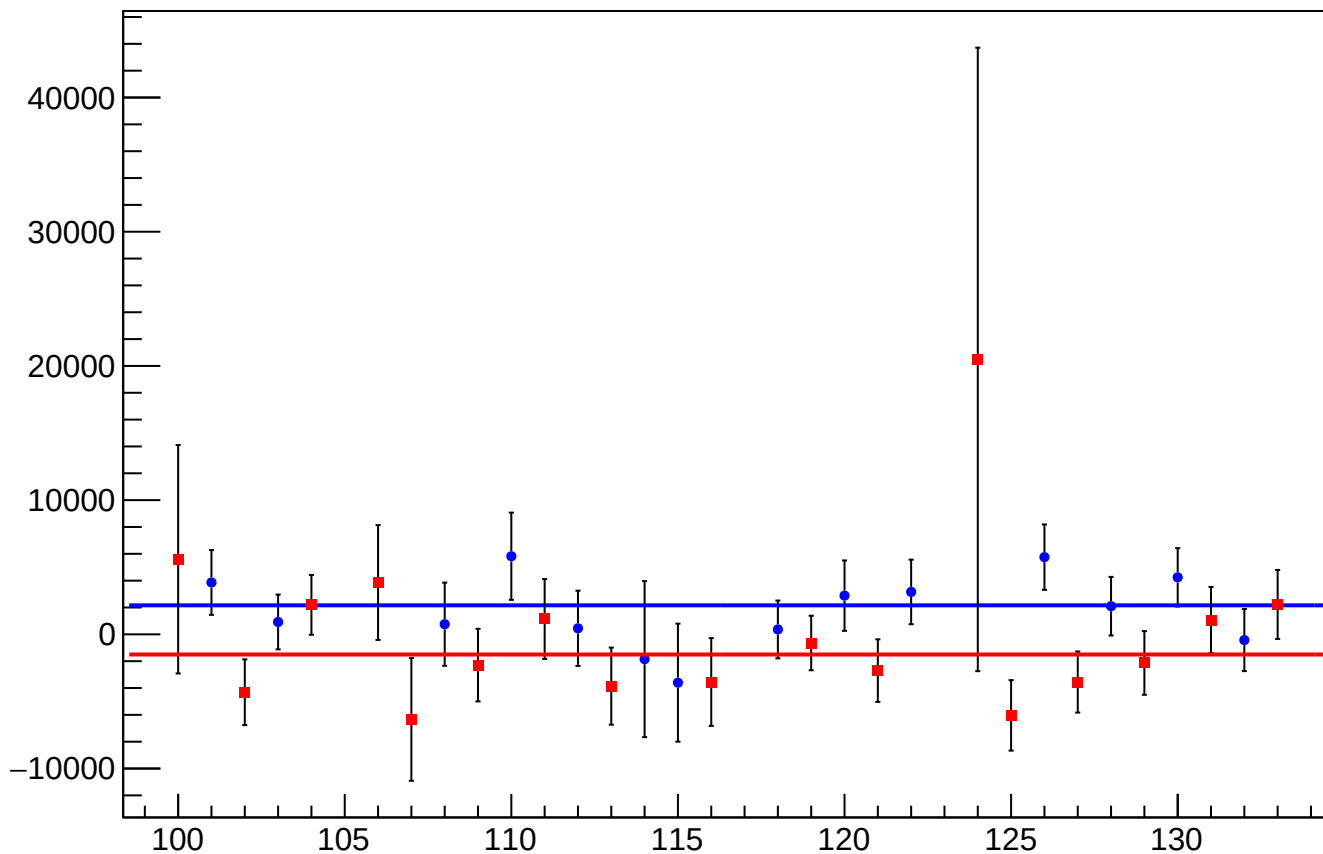
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 766.734+/-0.245  $\chi^2/\text{NDF}$ : 14479748.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atl\_avg\_mean vs Slug



Right In: 2160.693+/-685.105  $\chi^2/\text{NDF}$ : 10.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1502.166+/-672.871  $\chi^2/\text{NDF}$ : 17.8/16

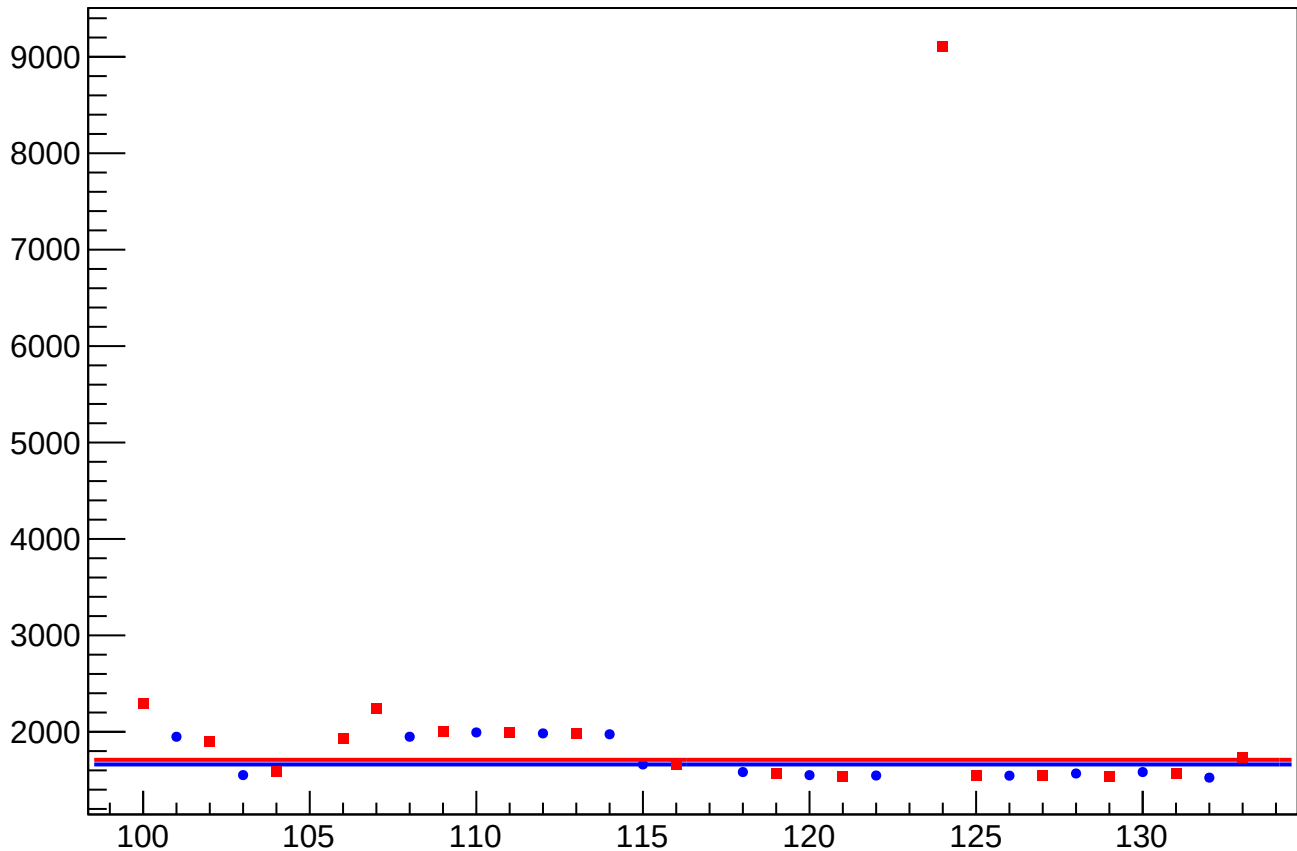
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 296.268+/-480.058  $\chi^2/\text{NDF}$ : 42.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_avg\_rms vs Slug



Right In: 1661.449 $\pm$ 0.484  $\chi^2$ /NDF: 133142.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1709.576 $\pm$ 0.474  $\chi^2$ /NDF: 380115.1/16

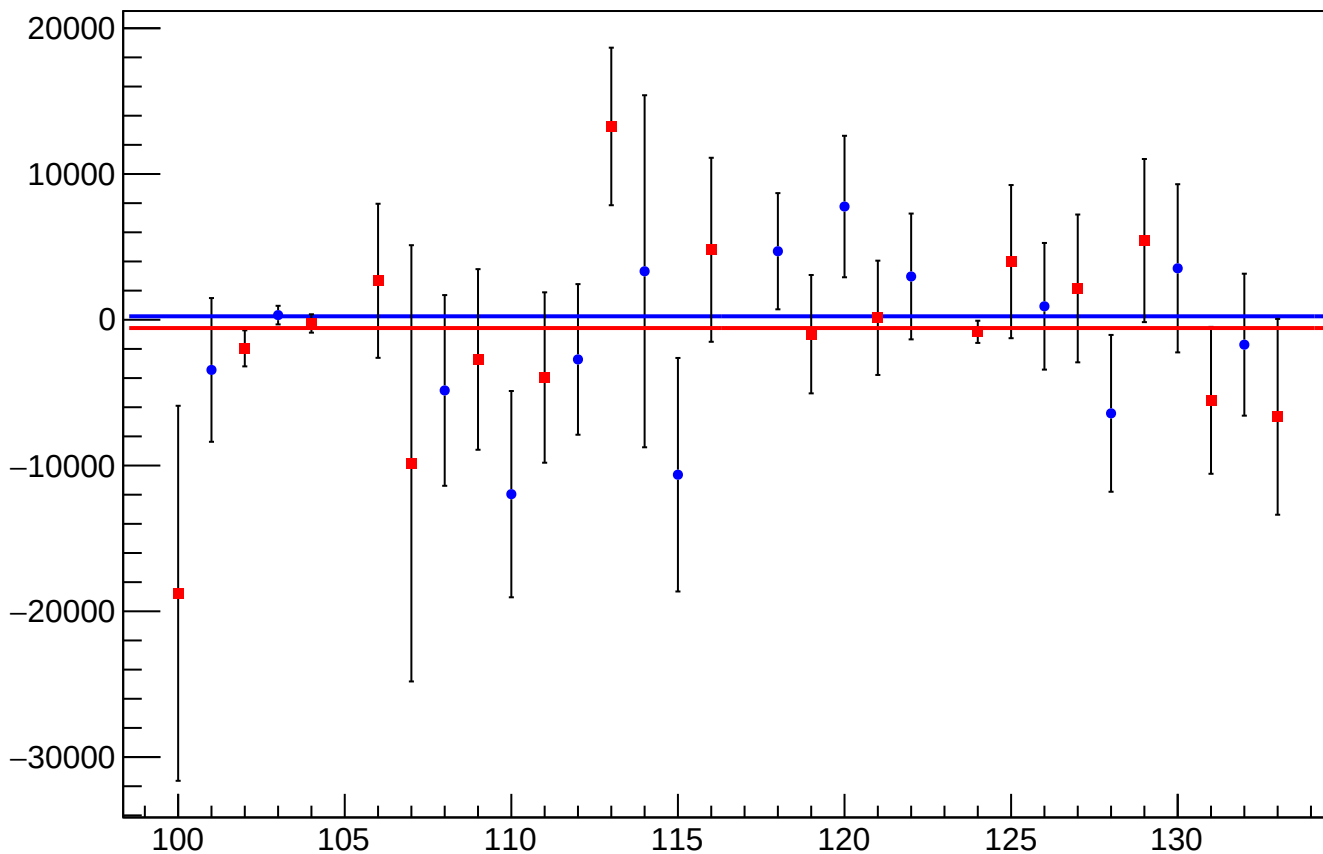
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1686.058 $\pm$ 0.339  $\chi^2$ /NDF: 518303.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_cor\_correction\_mean vs Slug



Right In: 238.351 $\pm$ 584.864  $\chi^2$ /NDF: 12.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -567.787 $\pm$ 431.930  $\chi^2$ /NDF: 16.2/16

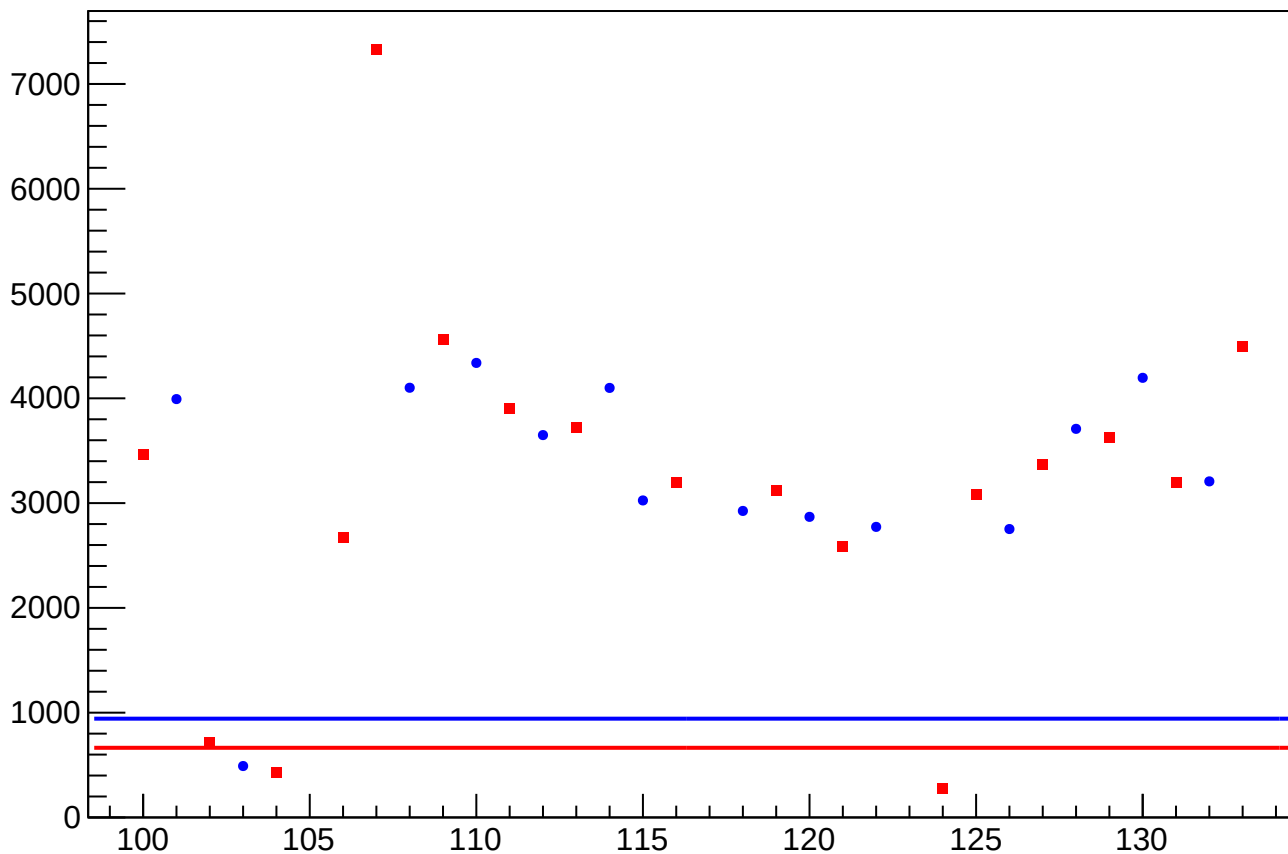
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -283.286 $\pm$ 347.450  $\chi^2$ /NDF: 29.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_cor\_correction\_rms vs Slug



Right In: 942.812+/-0.414  $\chi^2/\text{NDF}$ : 6631591.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 664.813+/-0.305  $\chi^2/\text{NDF}$ : 7868757.2/16

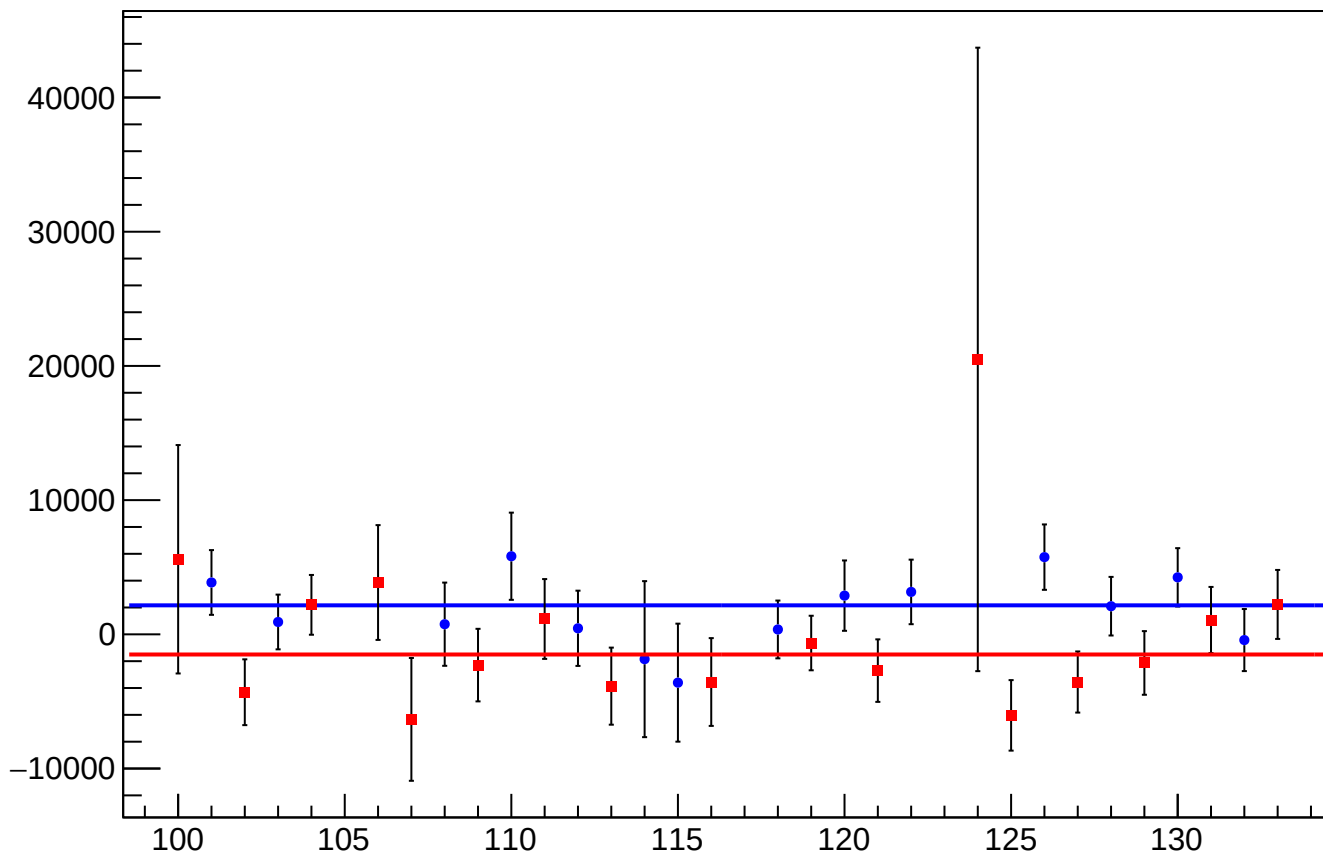
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 762.924+/-0.246  $\chi^2/\text{NDF}$ : 14792739.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl\_avg\_mean vs Slug



Right In: 2160.693+/-685.105  $\chi^2/\text{NDF}$ : 10.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1502.166+/-672.871  $\chi^2/\text{NDF}$ : 17.8/16

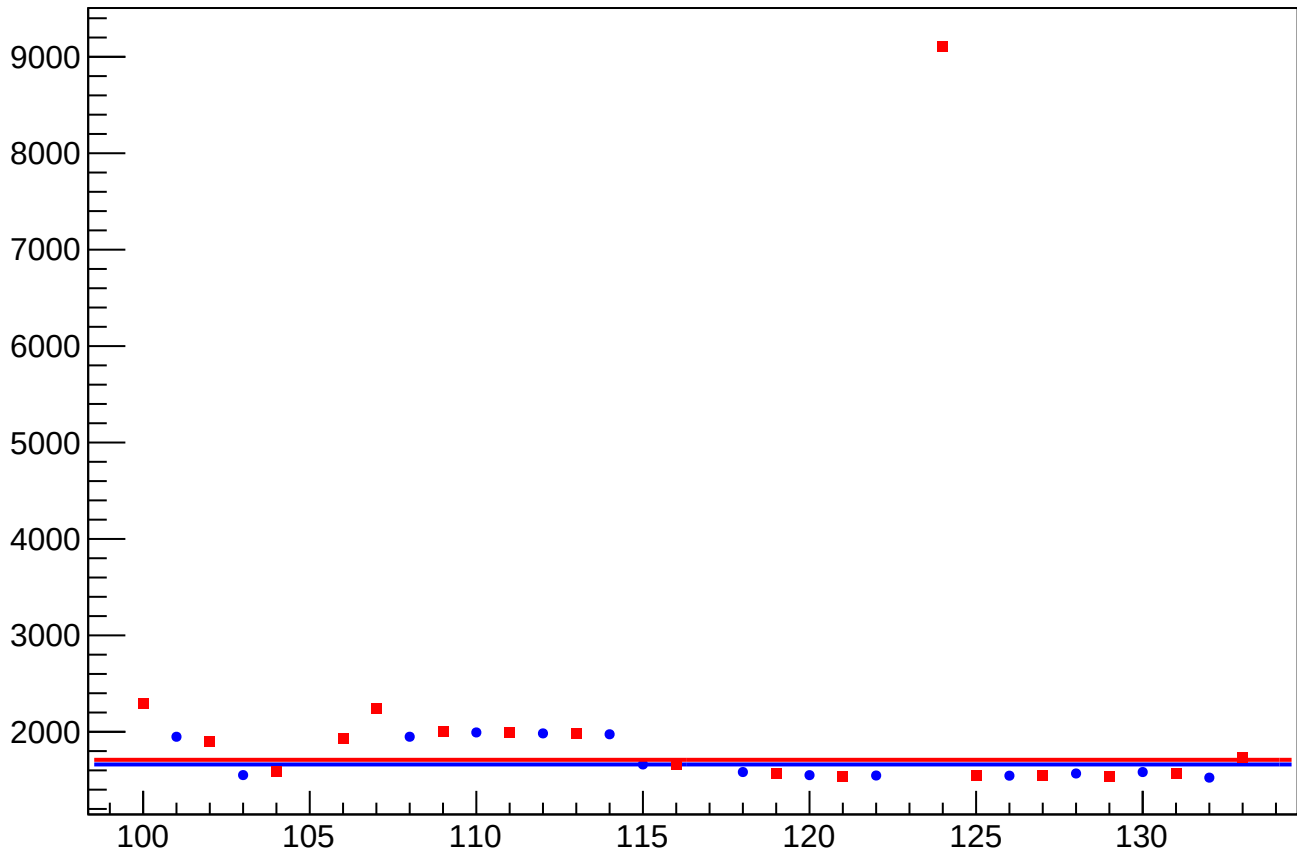
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 296.268+/-480.058  $\chi^2/\text{NDF}$ : 42.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl\_avg\_rms vs Slug



Right In: 1661.449+/-0.484  $\chi^2/\text{NDF}$ : 133142.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1709.576+/-0.474  $\chi^2/\text{NDF}$ : 380115.1/16

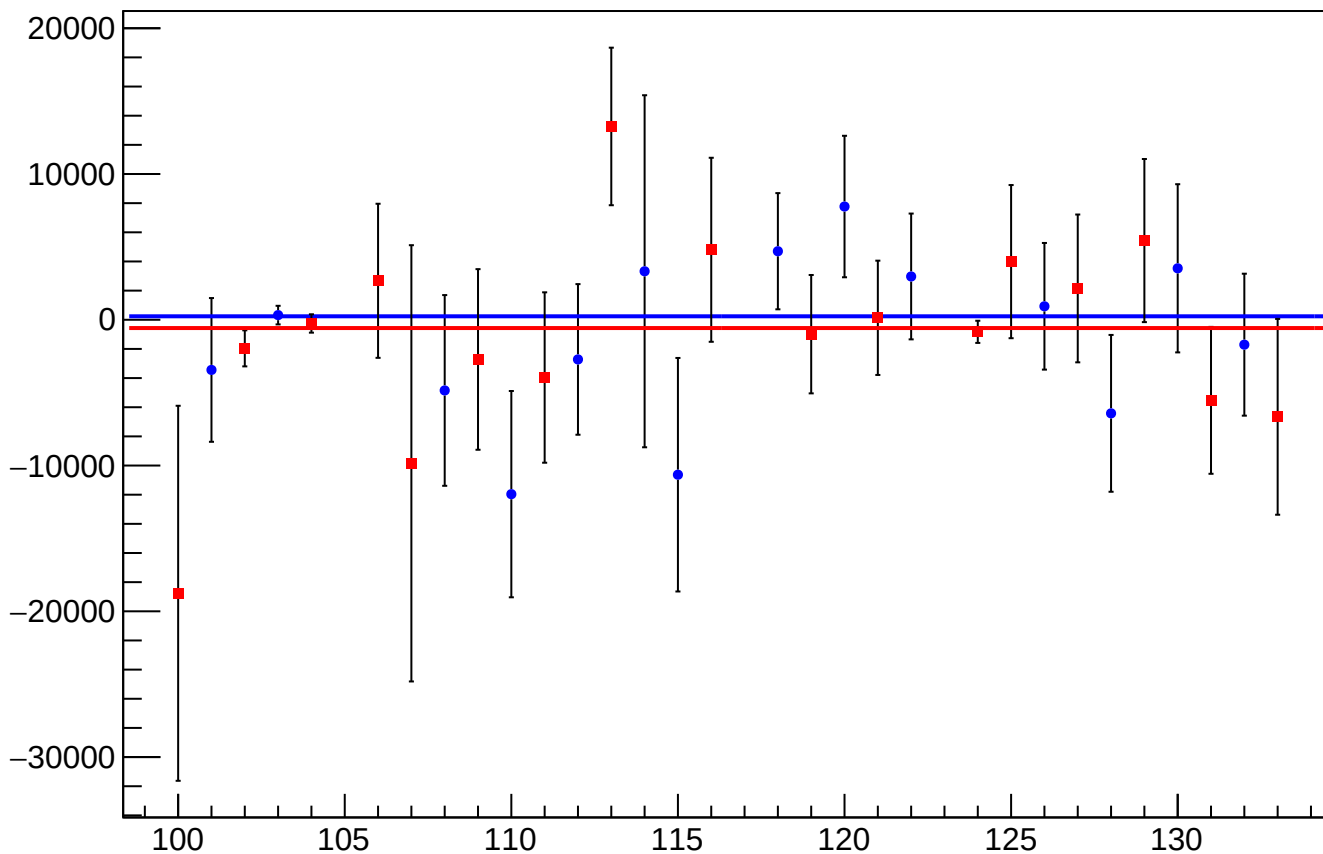
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1686.058+/-0.339  $\chi^2/\text{NDF}$ : 518303.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 238.351+/-584.864  $\chi^2/\text{NDF}$ : 12.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -567.787+/-431.930  $\chi^2/\text{NDF}$ : 16.2/16

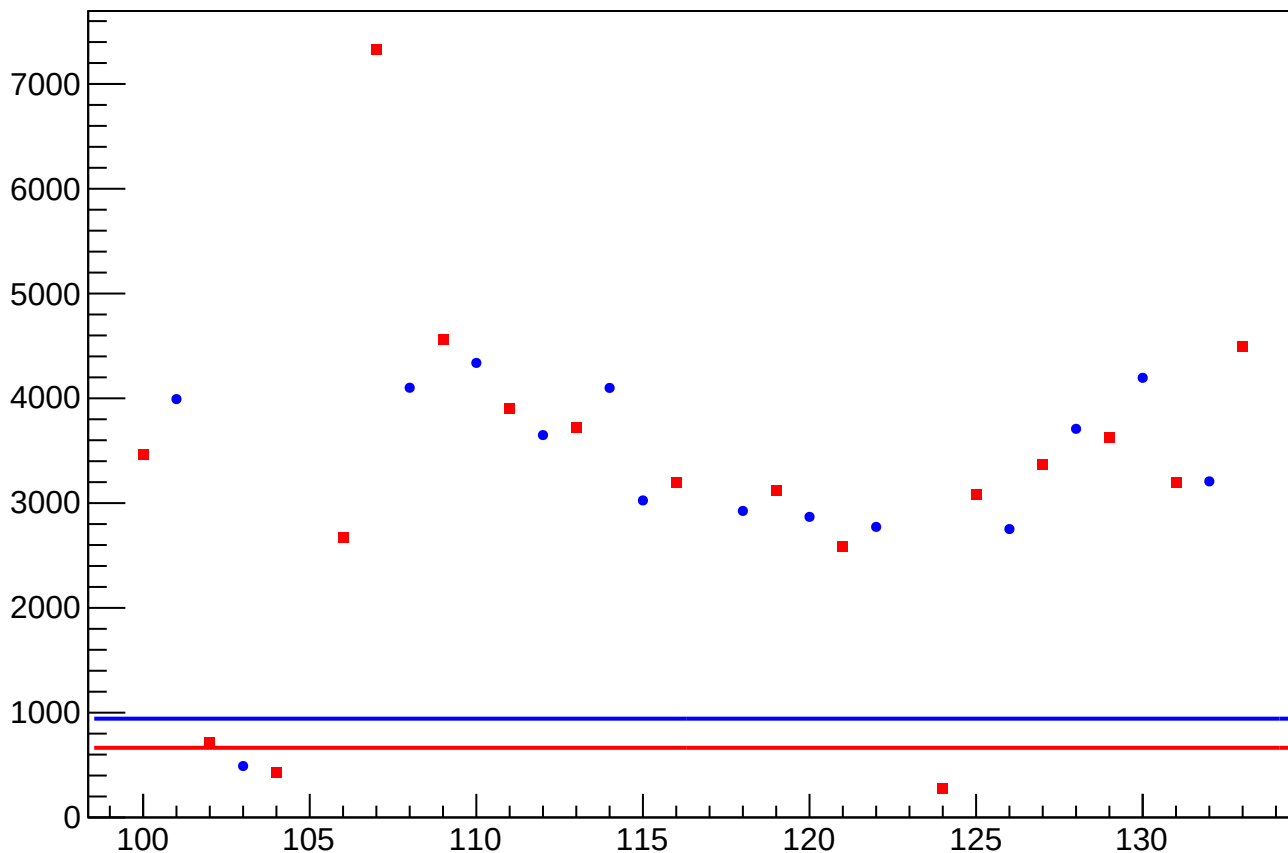
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -283.286+/-347.450  $\chi^2/\text{NDF}$ : 29.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 942.812+/-0.414  $\chi^2/\text{NDF}$ : 6631591.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 664.813+/-0.305  $\chi^2/\text{NDF}$ : 7868757.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

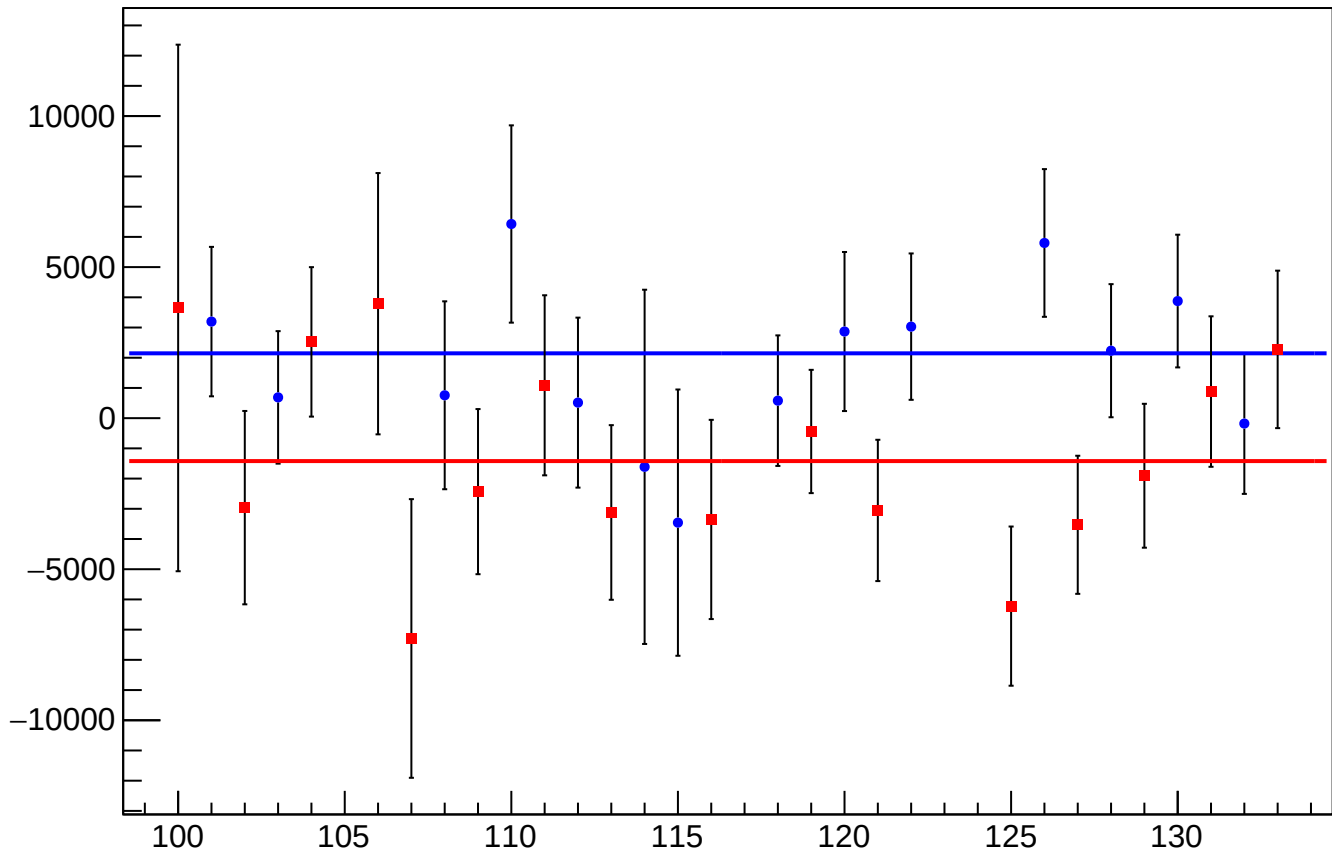
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 762.924+/-0.246  $\chi^2/\text{NDF}$ : 14792739.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_atl\_avg\_mean vs Slug



Right In: 2146.077 $\pm$ 695.118  $\chi^2$ /NDF: 9.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1420.633 $\pm$ 694.010  $\chi^2$ /NDF: 15.5/15

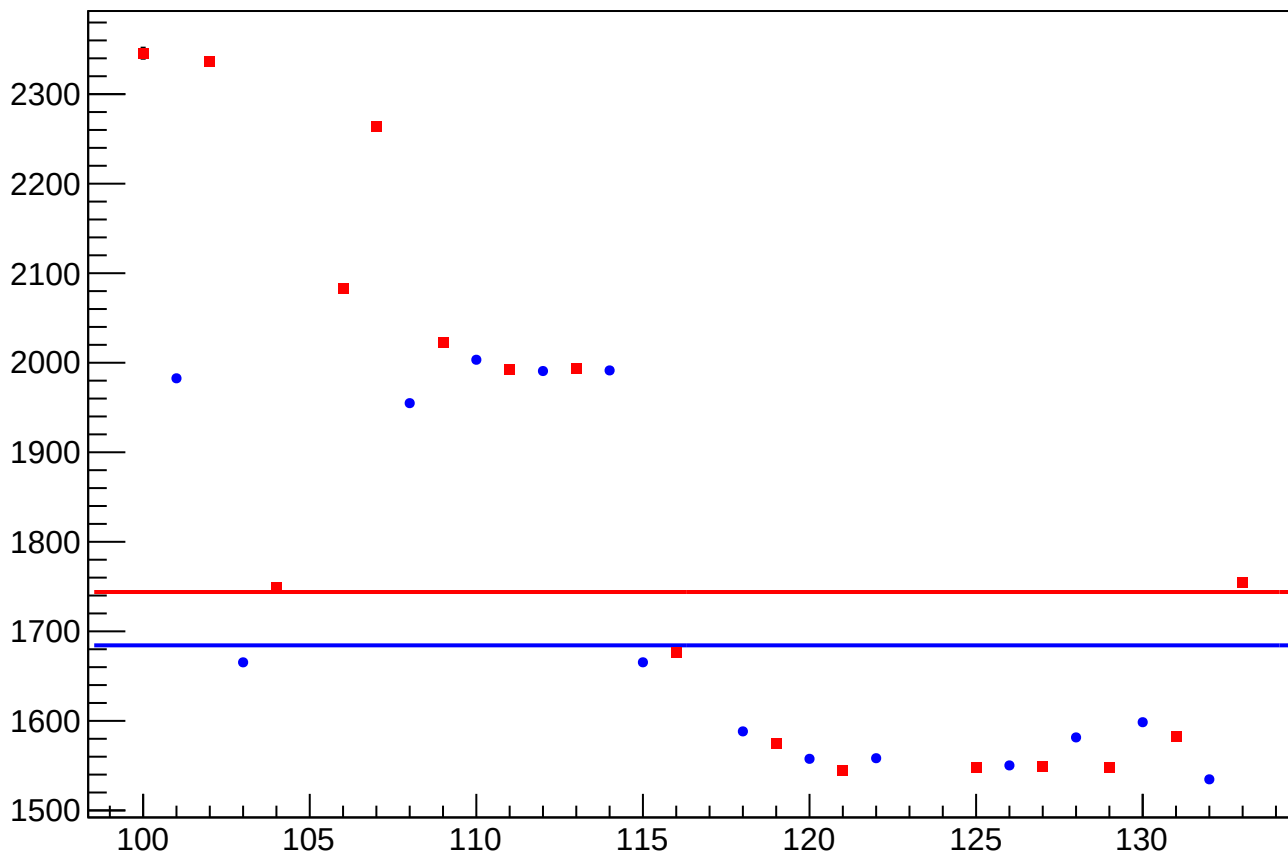
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 359.879 $\pm$ 491.130  $\chi^2$ /NDF: 38.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atl\_avg\_rms vs Slug



Right In: 1684.359+/-0.492  $\chi^2/\text{NDF}$ : 128400.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1743.938+/-0.490  $\chi^2/\text{NDF}$ : 244595.9/15

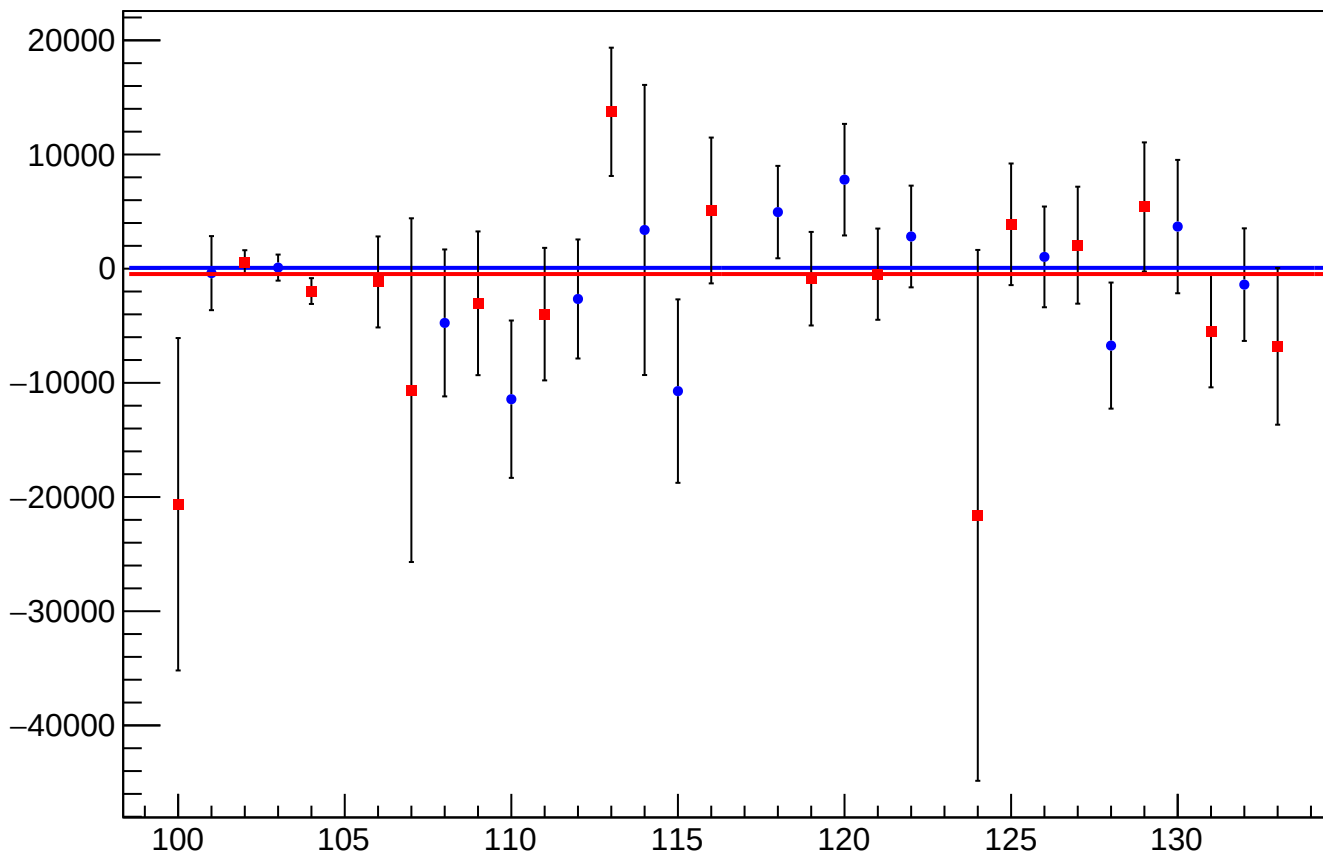
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1714.271+/-0.347  $\chi^2/\text{NDF}$ : 380373.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_dit\_correction\_mean vs Slug



Right In: 71.249+/-885.786  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -470.504+/-684.113  $\chi^2/\text{NDF}$ : 17.5/16

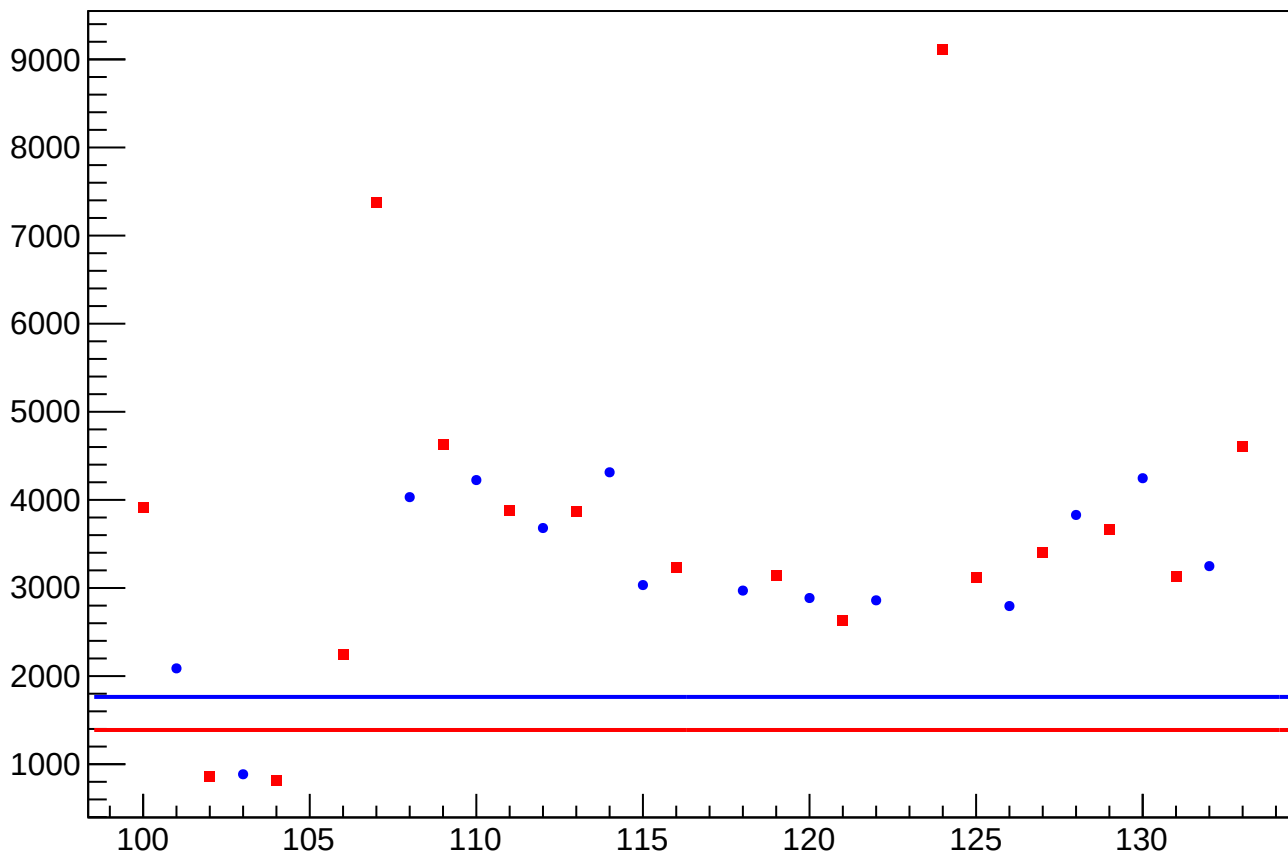
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -268.092+/-541.434  $\chi^2/\text{NDF}$ : 29.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_dit\_correction\_rms vs Slug



Right In: 1763.585+/-0.626  $\chi^2/\text{NDF}$ : 3444647.2/13

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

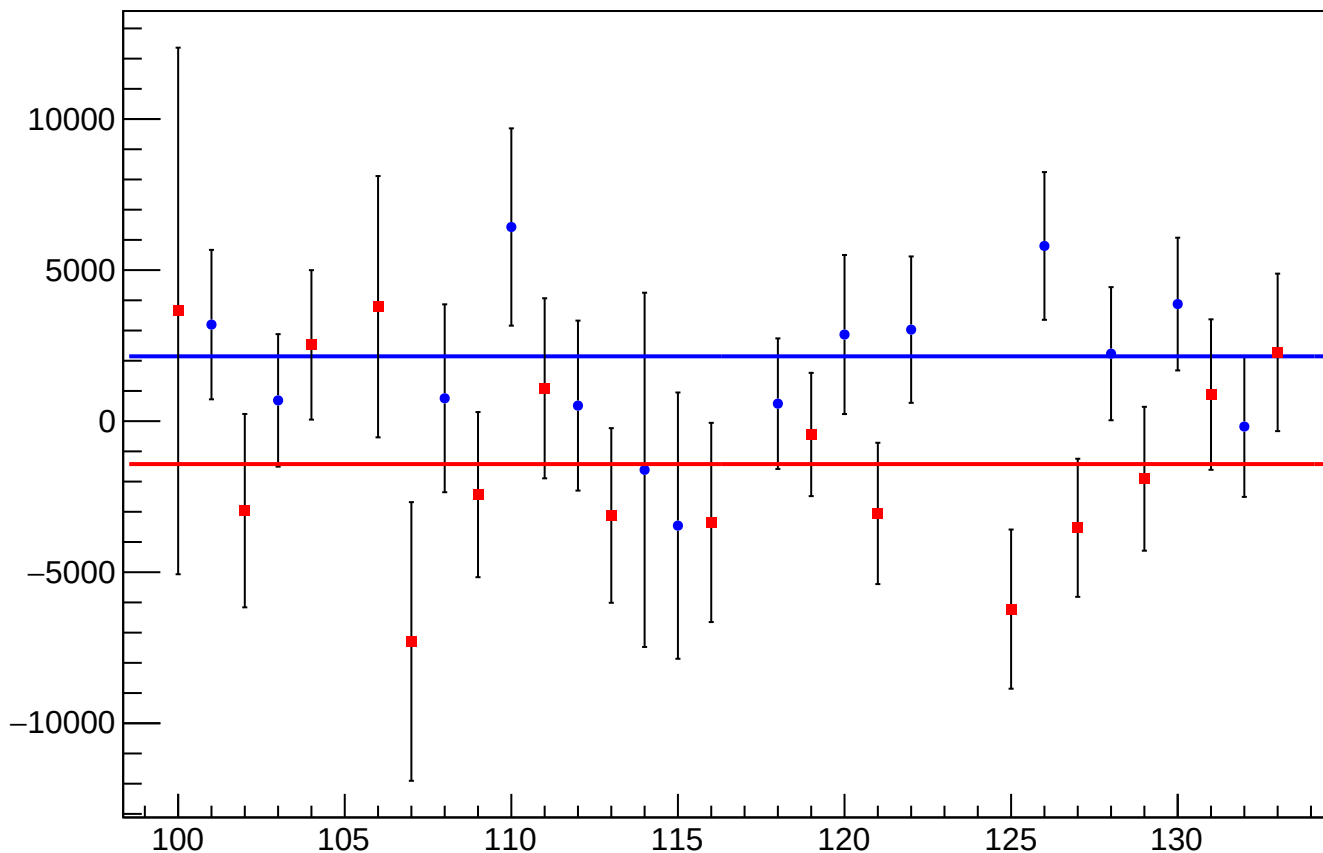
Right Out: 1388.278+/-0.484  $\chi^2/\text{NDF}$ : 5258392.9/16

All: 1528.501+/-0.383  $\chi^2/\text{NDF}$ : 8927936.2/30

- 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\_mean vs Slug



Right In: 2146.081+/-695.118  $\chi^2/\text{NDF}$ : 9.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1420.631+/-694.010  $\chi^2/\text{NDF}$ : 15.5/15

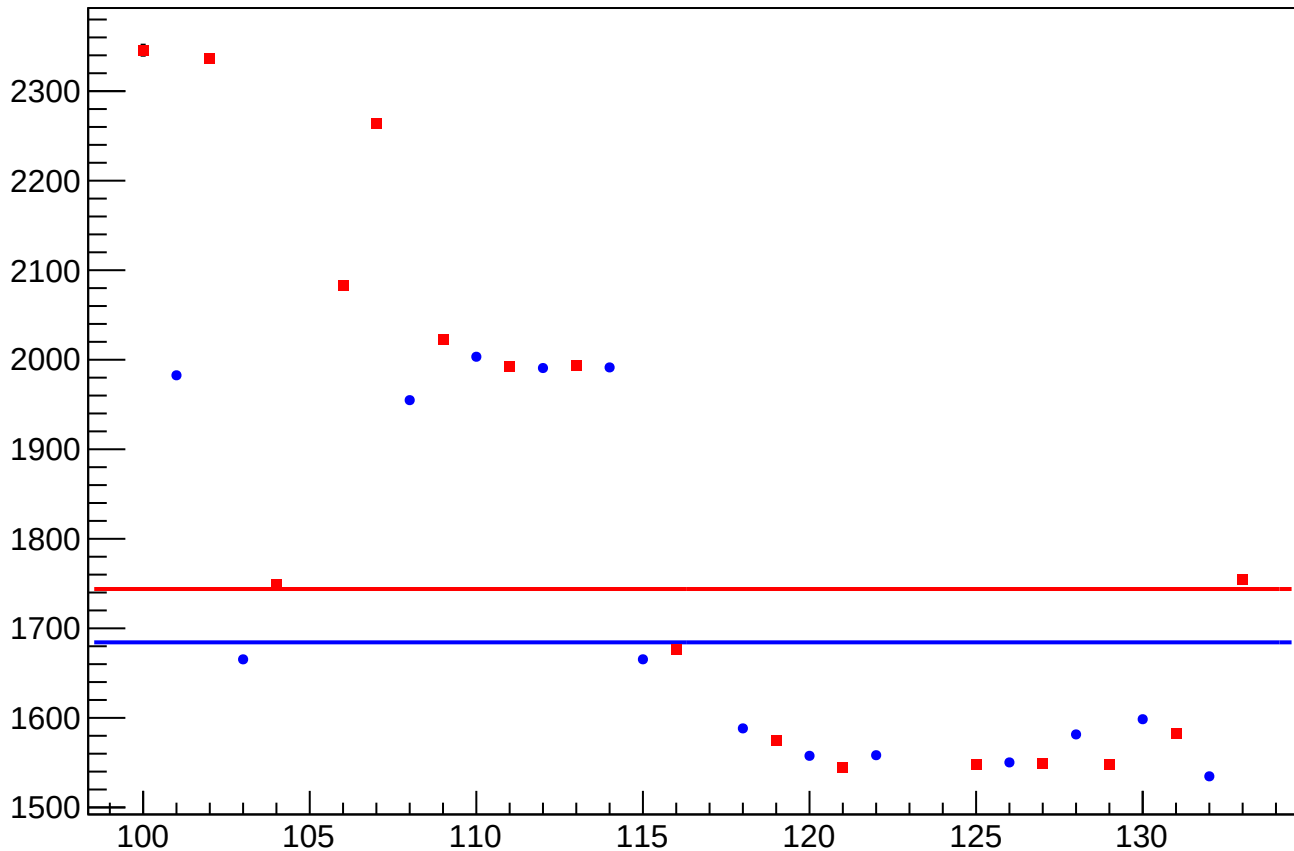
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 359.882+/-491.130  $\chi^2/\text{NDF}$ : 38.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl\_avg\_rms vs Slug



Right In: 1684.358 $\pm$ 0.492  $\chi^2$ /NDF: 128400.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1743.937 $\pm$ 0.490  $\chi^2$ /NDF: 244595.4/15

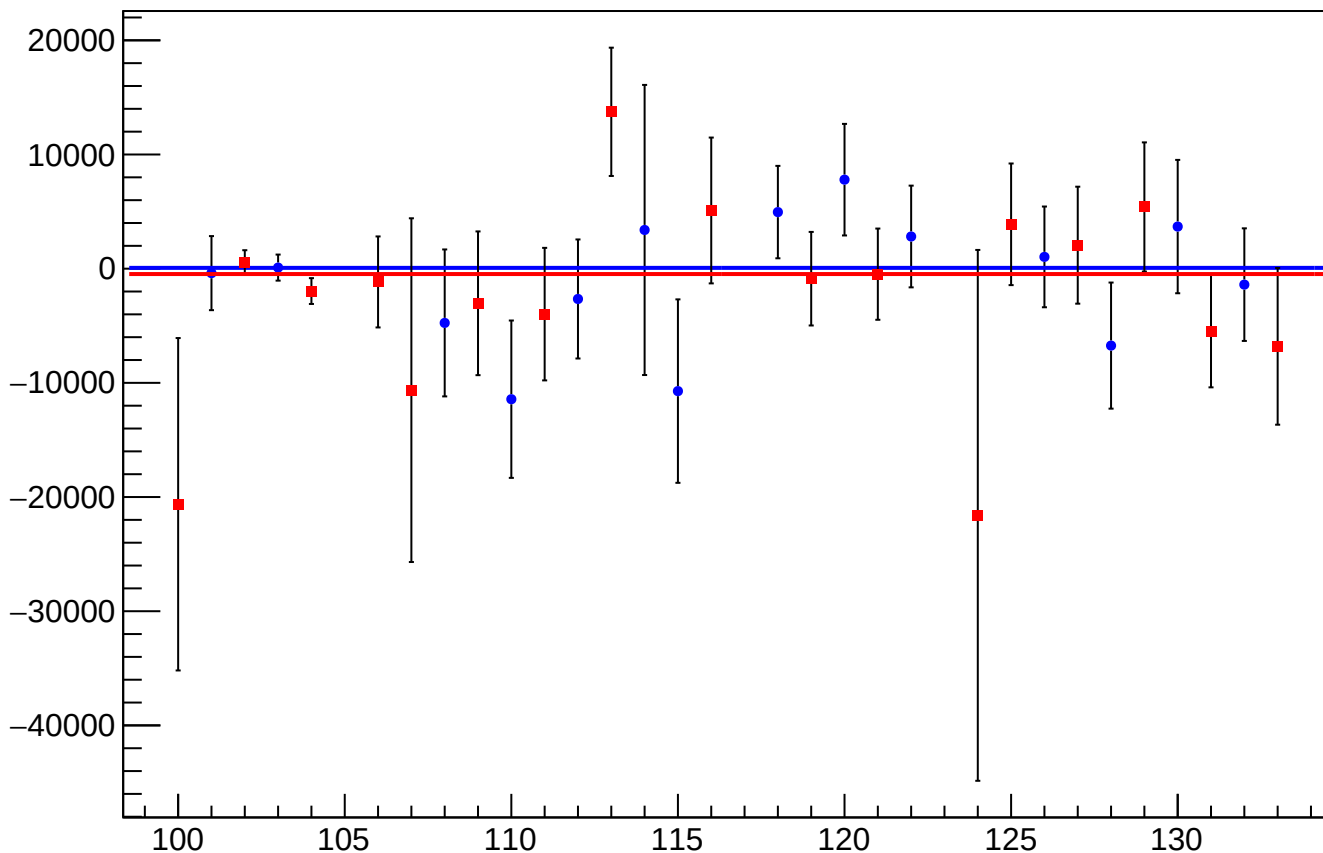
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1714.270 $\pm$ 0.347  $\chi^2$ /NDF: 380372.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 71.251+/-885.780  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -470.503+/-684.108  $\chi^2/\text{NDF}$ : 17.5/16

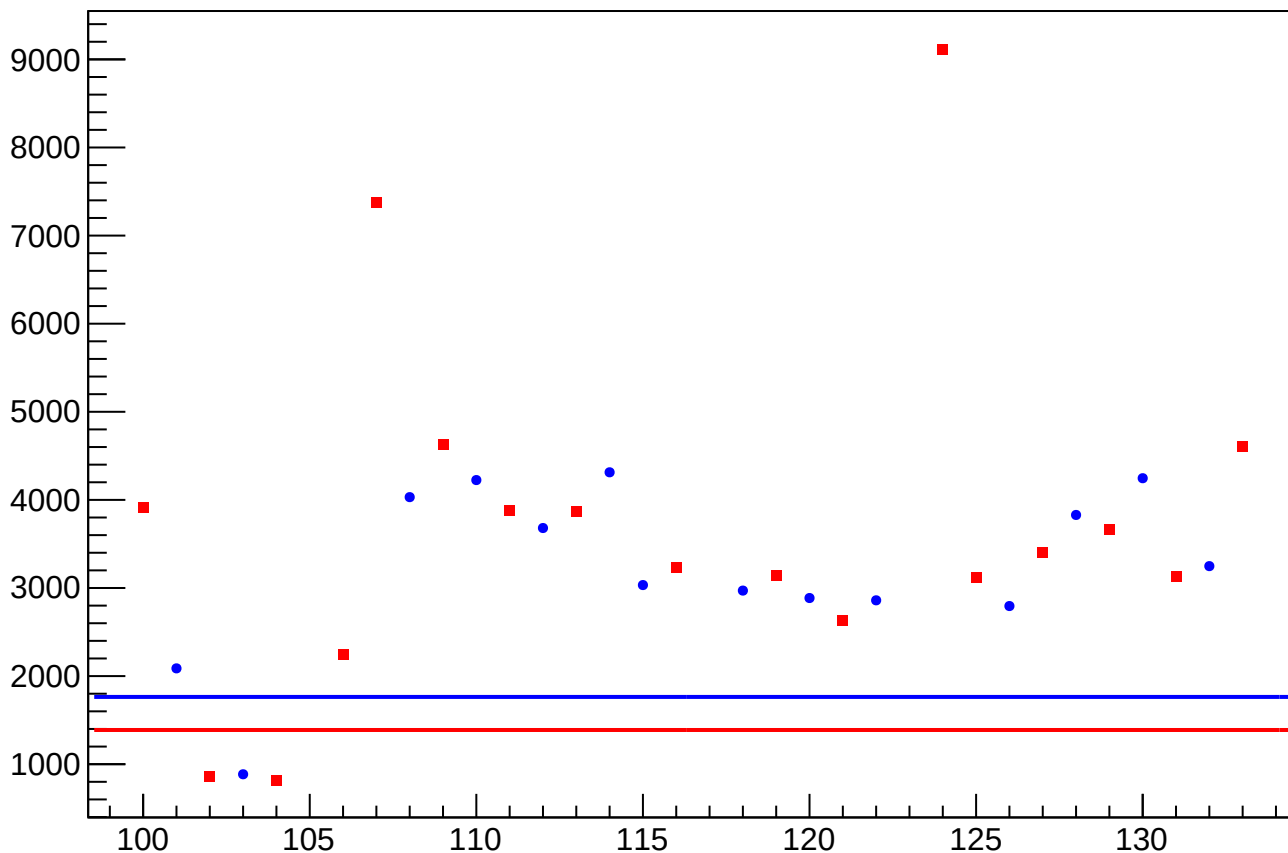
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -268.091+/-541.430  $\chi^2/\text{NDF}$ : 29.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1763.570+/-0.626  $\chi^2/\text{NDF}$ : 3444672.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1388.265+/-0.484  $\chi^2/\text{NDF}$ : 5258420.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

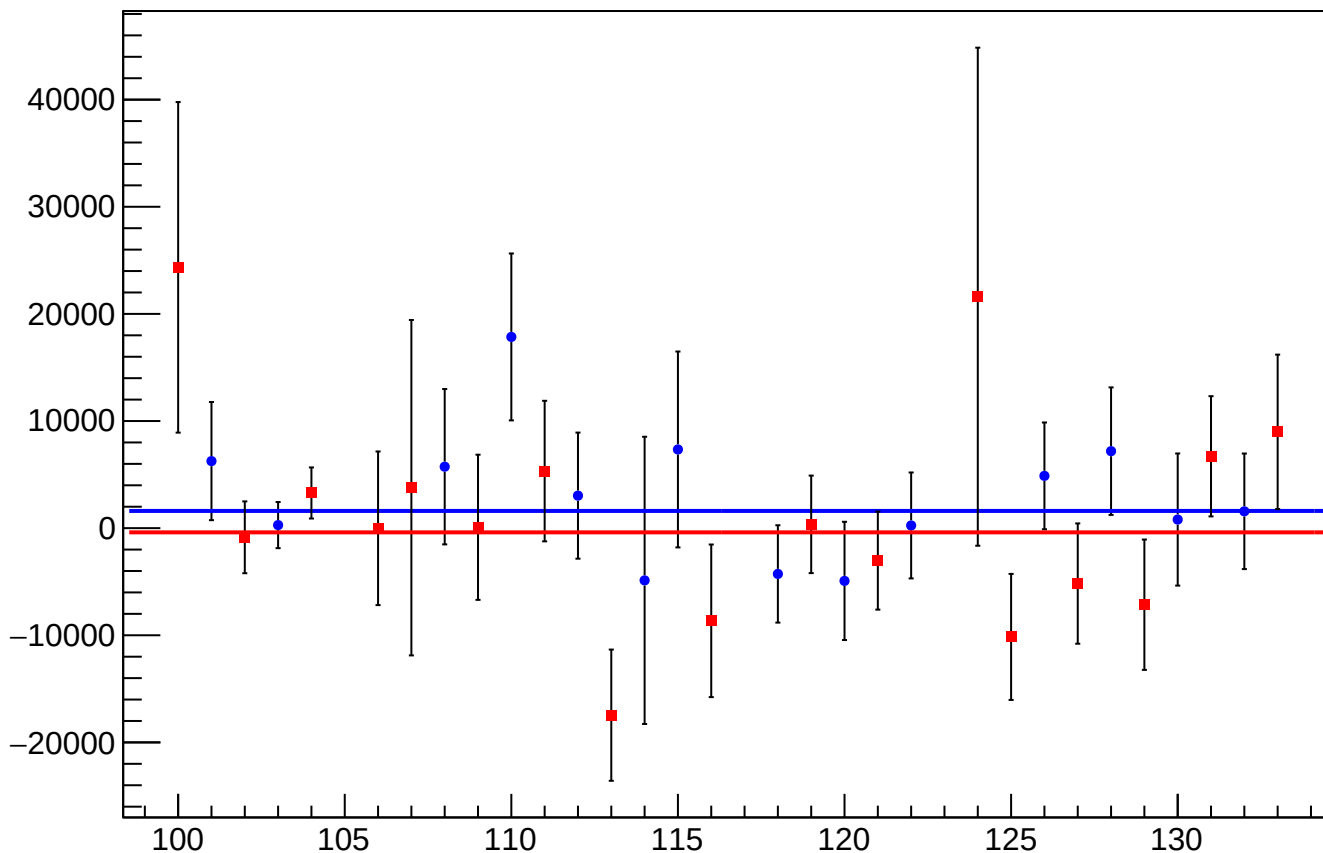
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1528.487+/-0.383  $\chi^2/\text{NDF}$ : 8927989.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl\_avg\_mean vs Slug



Right In: 1607.036+/-1311.010  $\chi^2/\text{NDF}$ : 10.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -392.825+/-1269.526  $\chi^2/\text{NDF}$ : 24.2/16

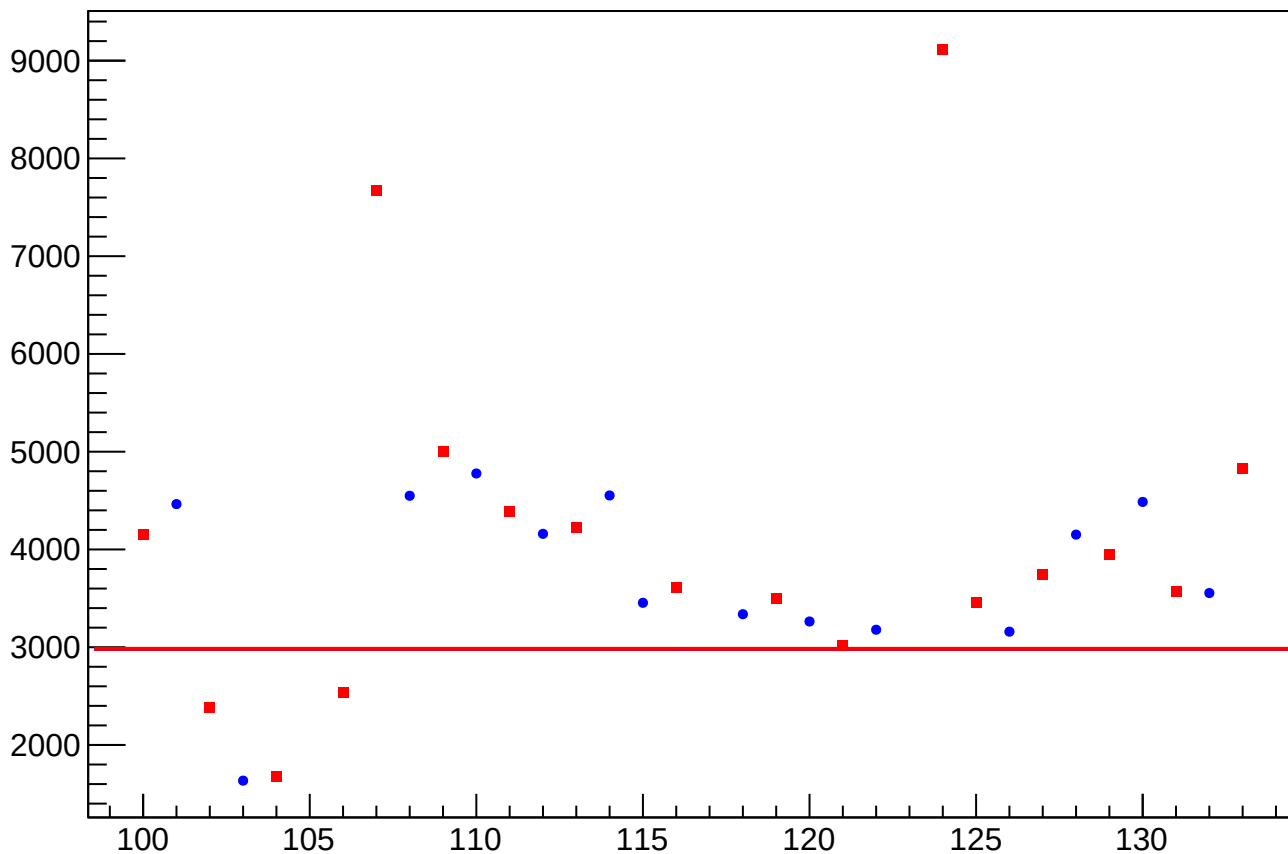
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 574.965+/-912.003  $\chi^2/\text{NDF}$ : 36.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_rms vs Slug



Right In: 2981.691+/-0.927  $\chi^2/\text{NDF}$ : 1481642.6/13

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

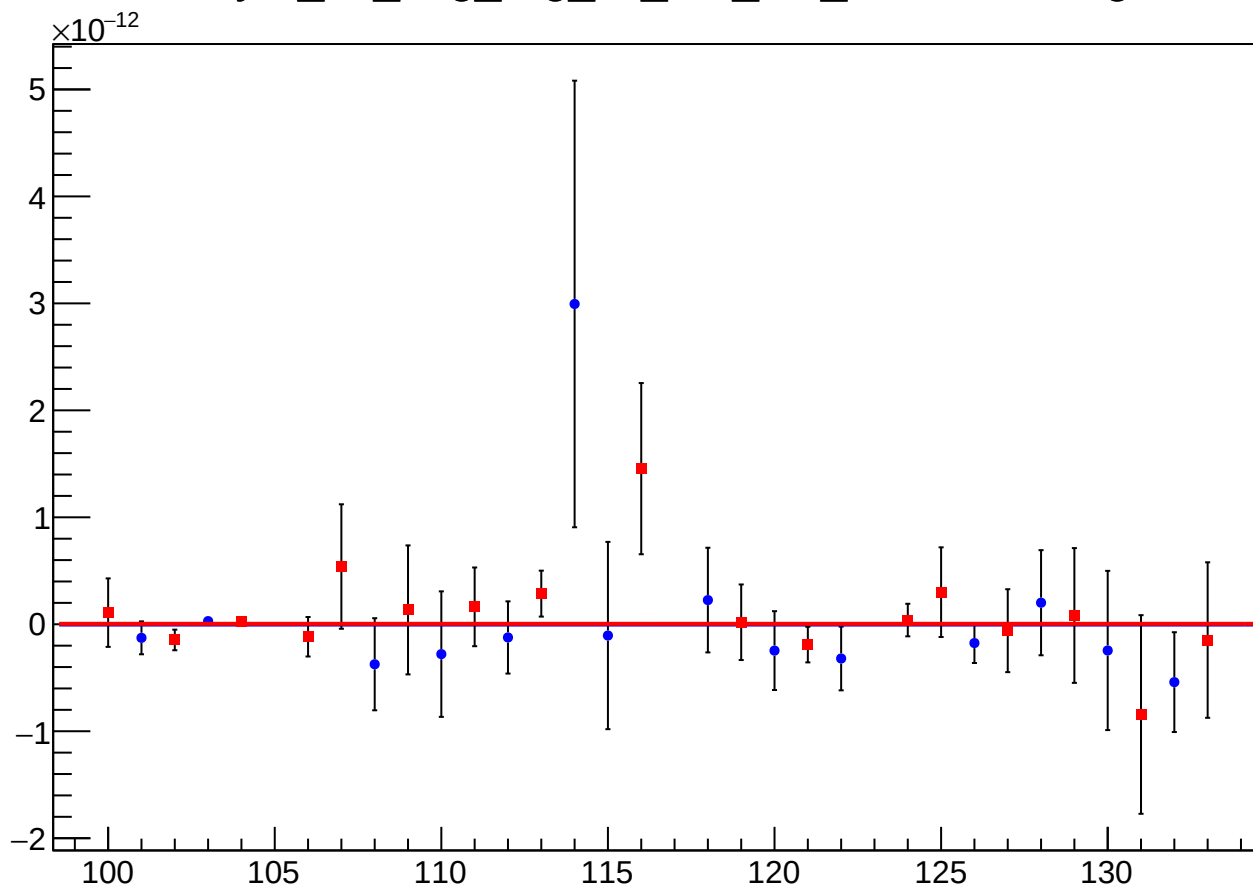
Right Out: 2983.104+/-0.883  $\chi^2/\text{NDF}$ : 1657396.8/16

All: 2982.432+/-0.639  $\chi^2/\text{NDF}$ : 3139040.6/30

- 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\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 8.7/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 12.2/16

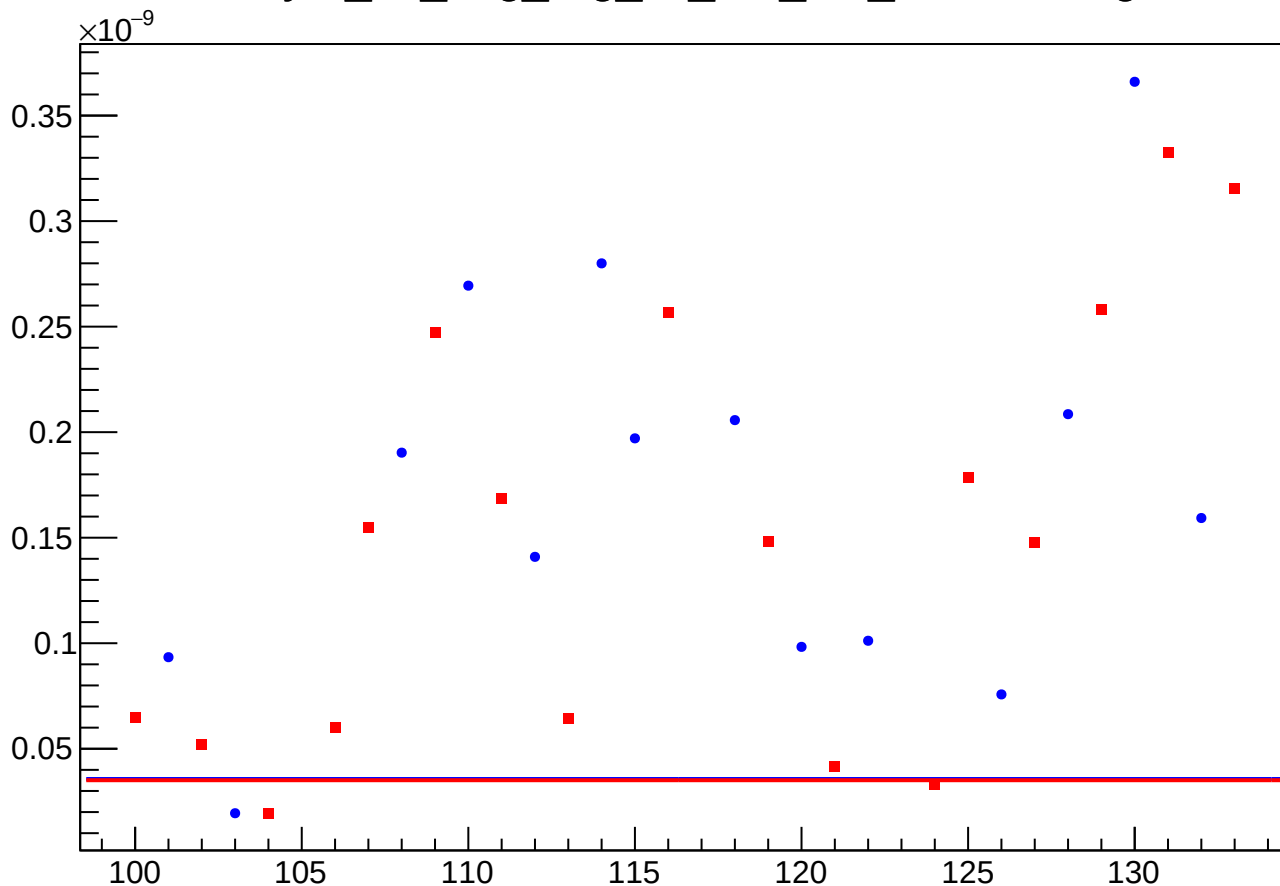
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 20.9/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2745172.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2582318.7/16

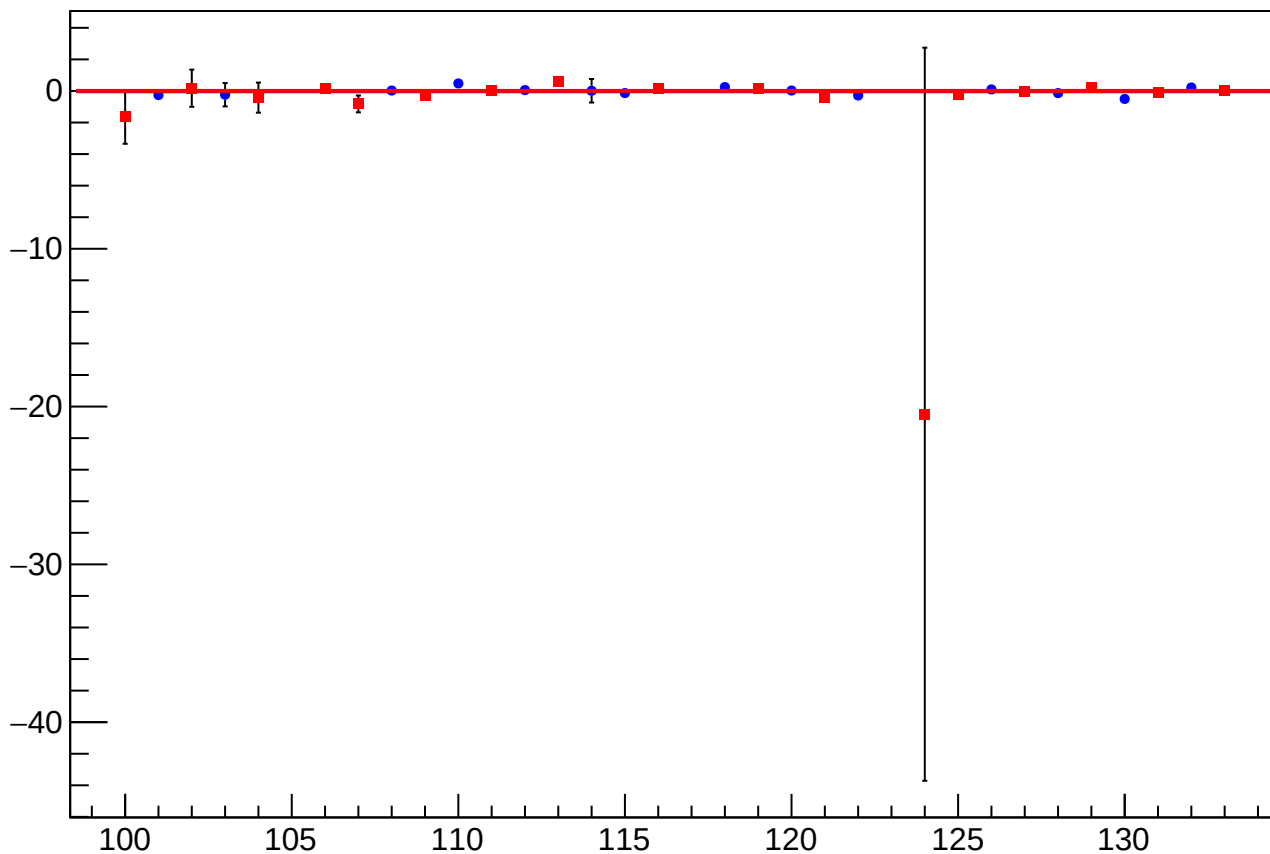
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5327749.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.017 $\pm$ 0.061  $\chi^2$ /NDF: 15.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.003 $\pm$ 0.058  $\chi^2$ /NDF: 19.8/16

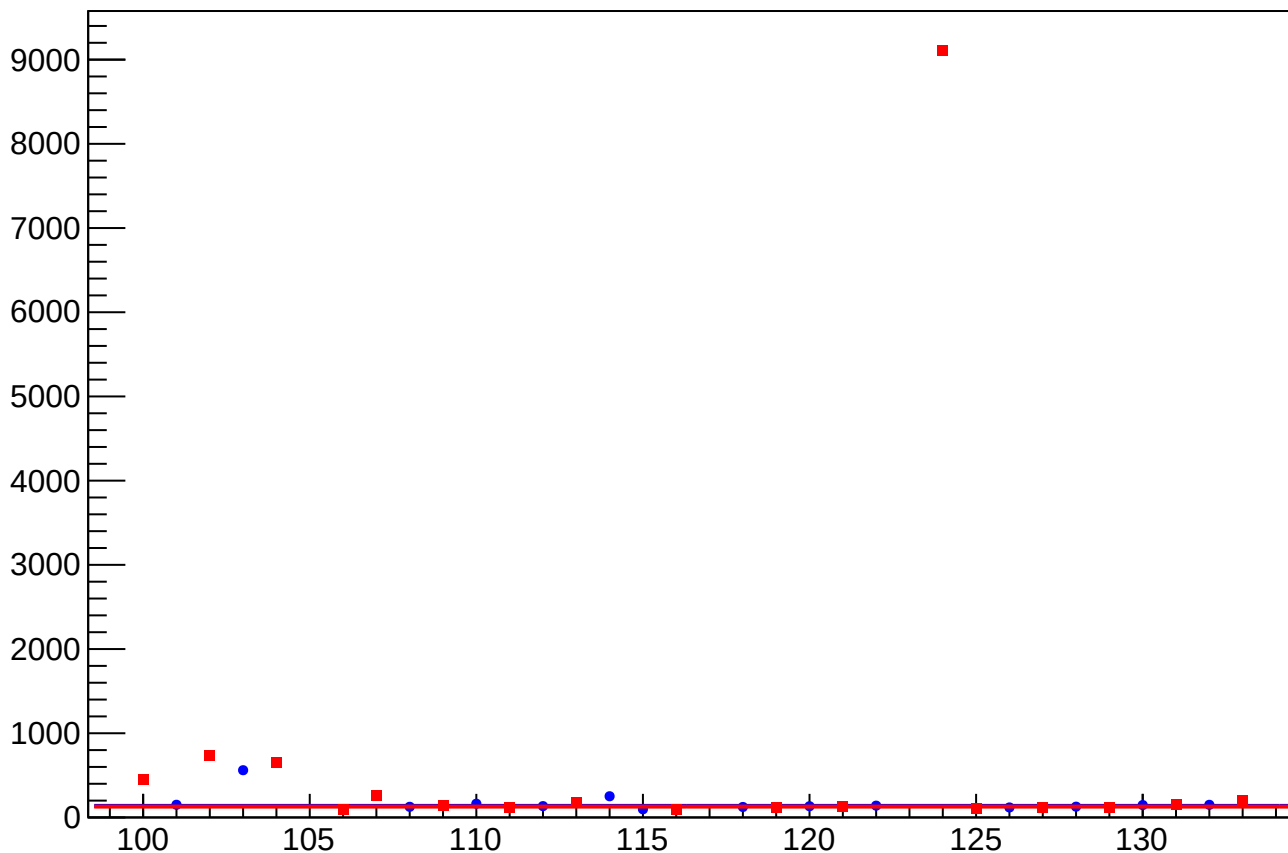
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.007 $\pm$ 0.042  $\chi^2$ /NDF: 35.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 137.355+/-0.043  $\chi^2/\text{NDF}$ : 827751.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 129.072+/-0.041  $\chi^2/\text{NDF}$ : 1968386.1/16

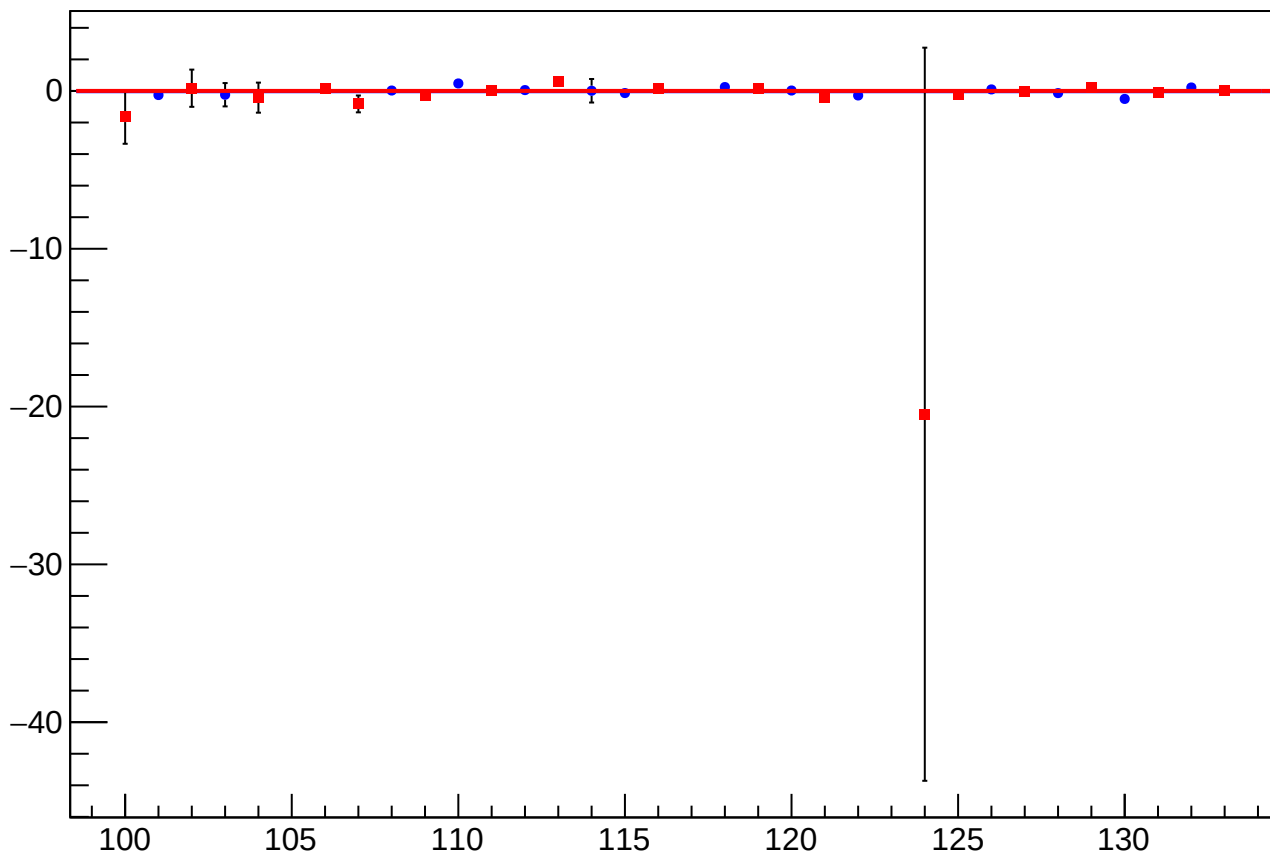
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 133.016+/-0.030  $\chi^2/\text{NDF}$ : 2815686.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.017 $\pm$ 0.061  $\chi^2$ /NDF: 15.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.003 $\pm$ 0.058  $\chi^2$ /NDF: 19.8/16

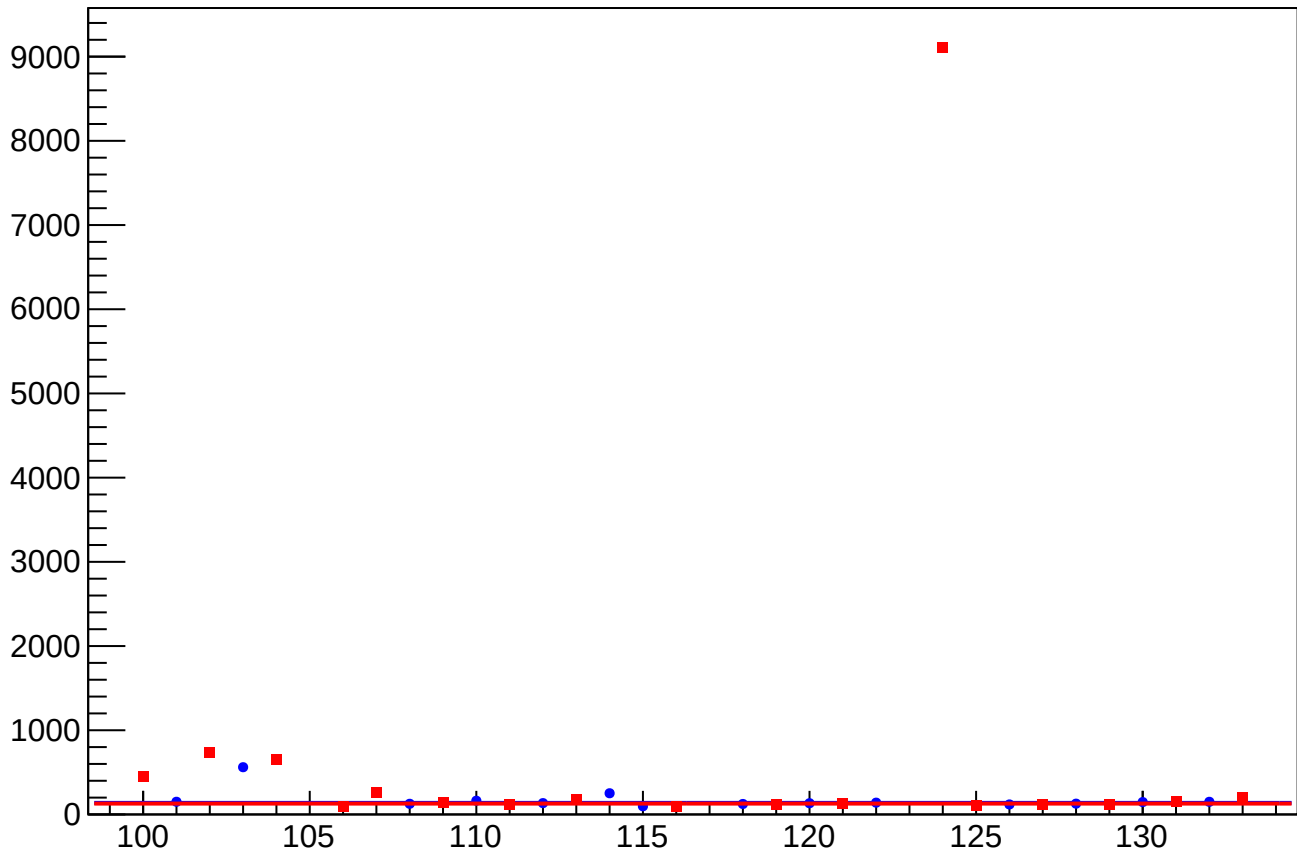
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.007 $\pm$ 0.042  $\chi^2$ /NDF: 35.6/30

- 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: 137.355+/-0.043  $\chi^2/\text{NDF}$ : 827751.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 129.072+/-0.041  $\chi^2/\text{NDF}$ : 1968386.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

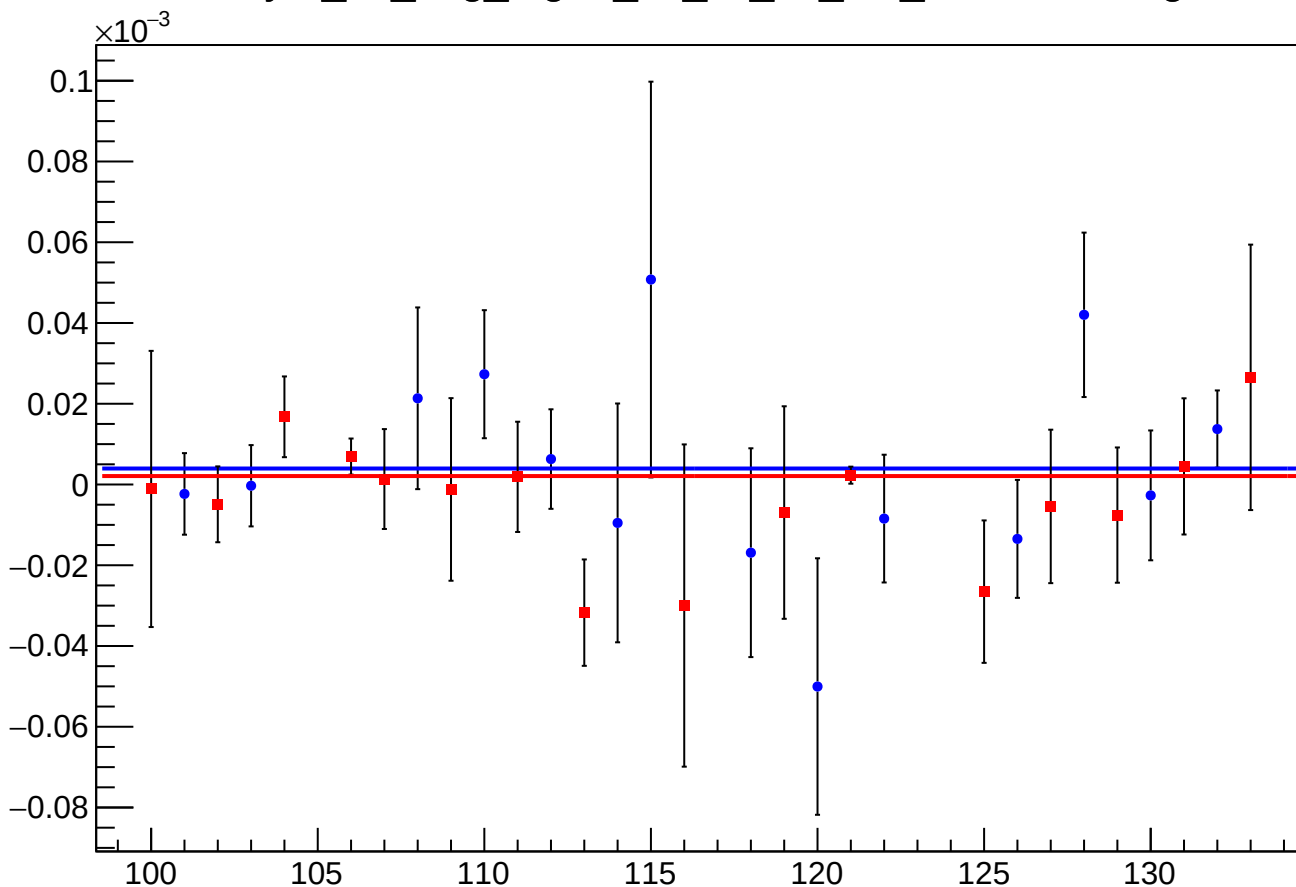
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 133.016+/-0.030  $\chi^2/\text{NDF}$ : 2815686.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.0/15

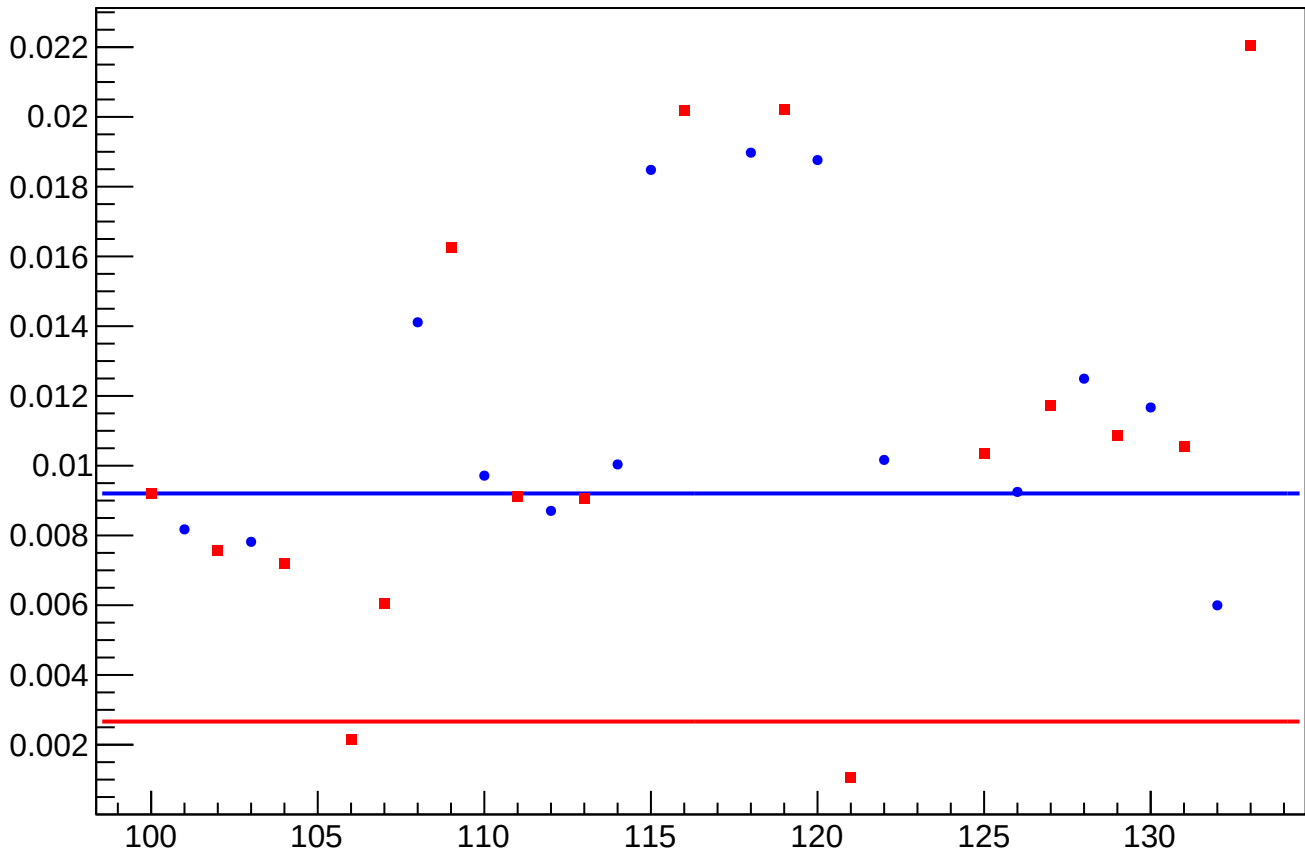
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 29.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 1030818.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 7730373.5/15

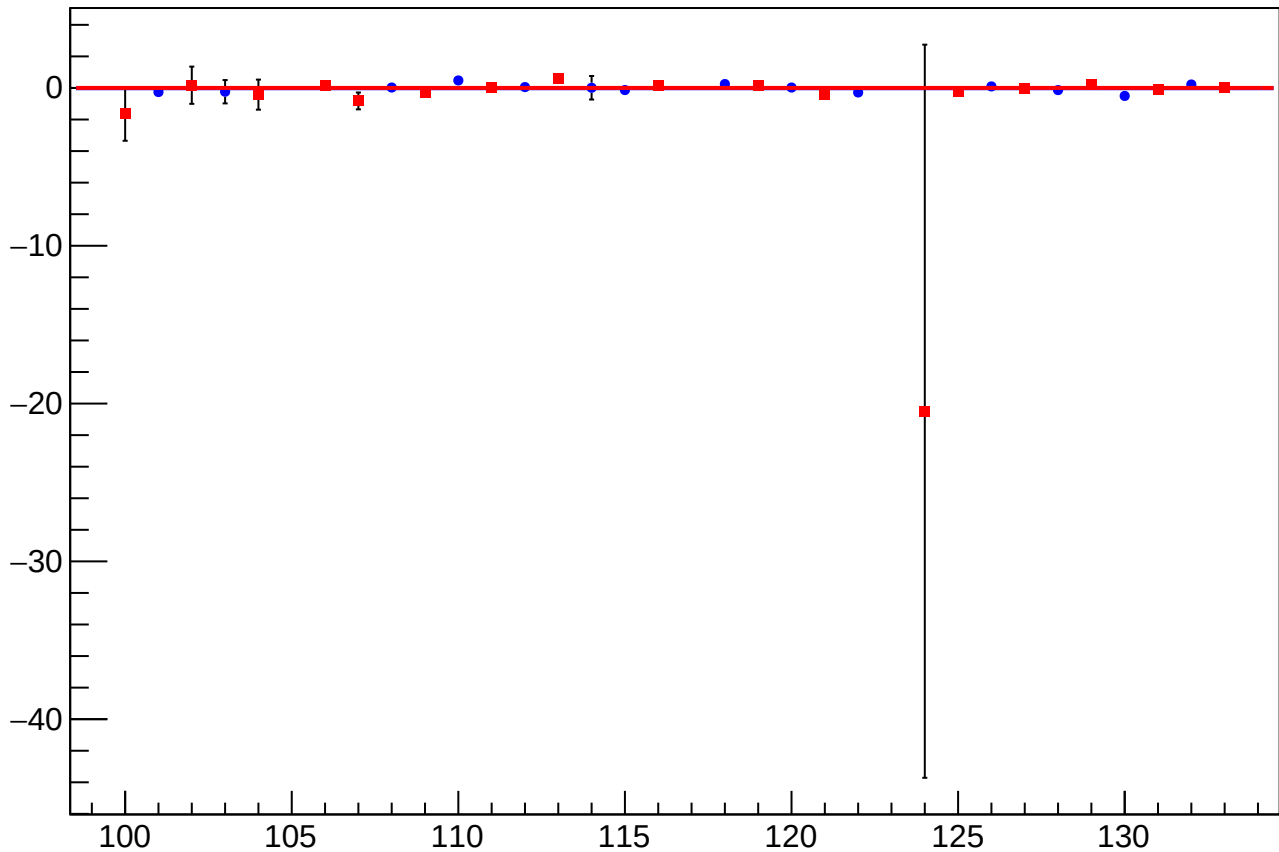
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 13240352.6/29

- 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: -0.017+/-0.061  $\chi^2/\text{NDF}$ : 15.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.058  $\chi^2/\text{NDF}$ : 19.8/16

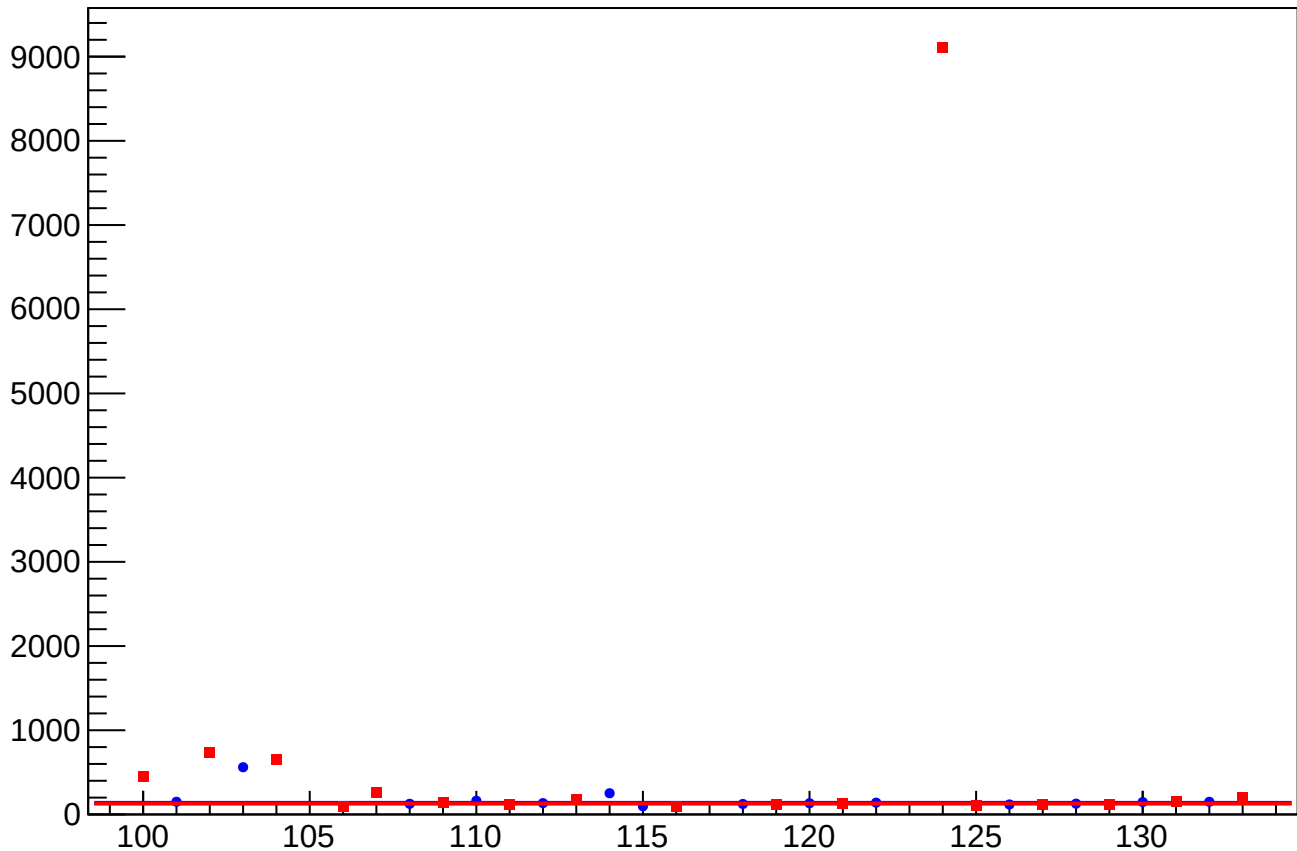
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.007+/-0.042  $\chi^2/\text{NDF}$ : 35.6/30

- 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: 137.353+/-0.043  $\chi^2/\text{NDF}$ : 827754.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 129.072+/-0.041  $\chi^2/\text{NDF}$ : 1968331.7/16

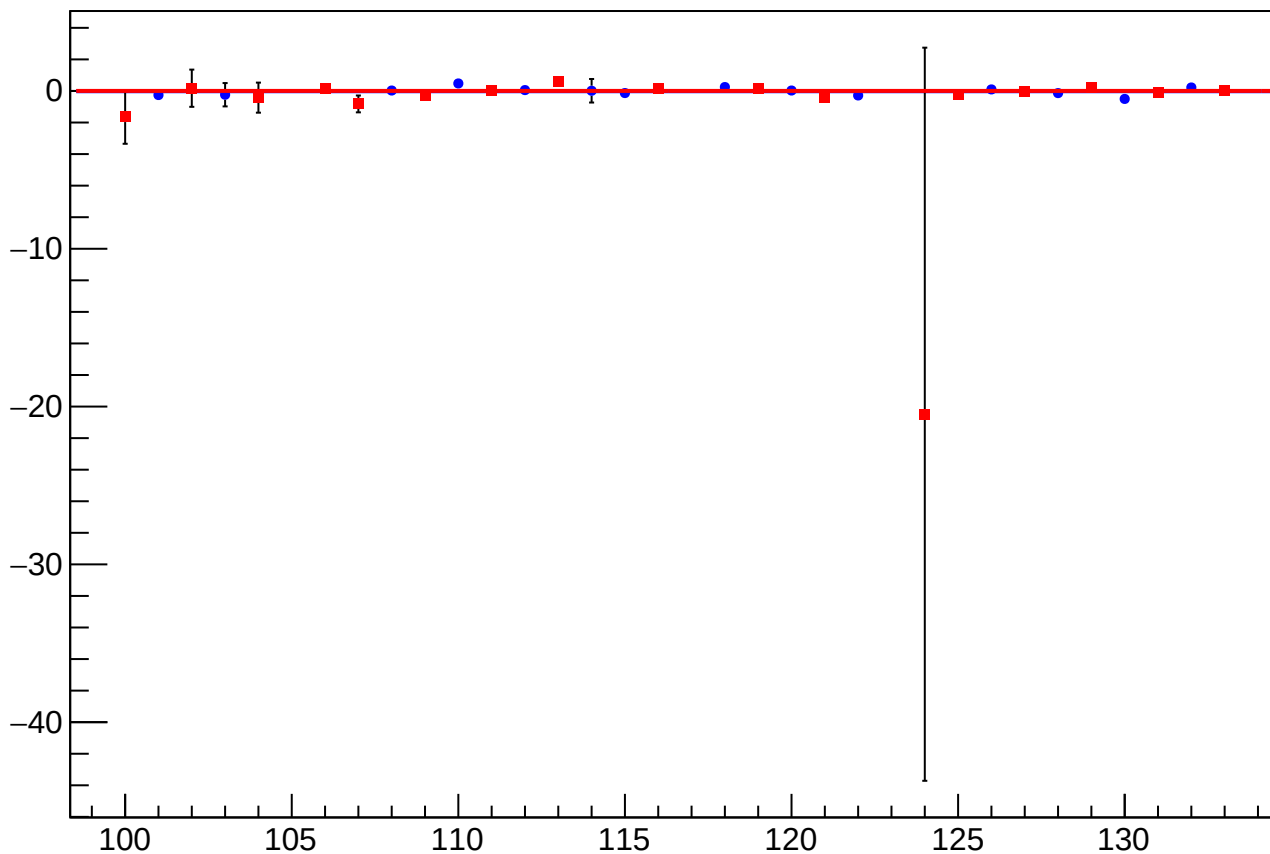
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 133.015+/-0.030  $\chi^2/\text{NDF}$ : 2815631.0/30

- 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:  $-0.017 \pm 0.061$   $\chi^2/\text{NDF}$ : 15.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.003 \pm 0.058$   $\chi^2/\text{NDF}$ : 19.8/16

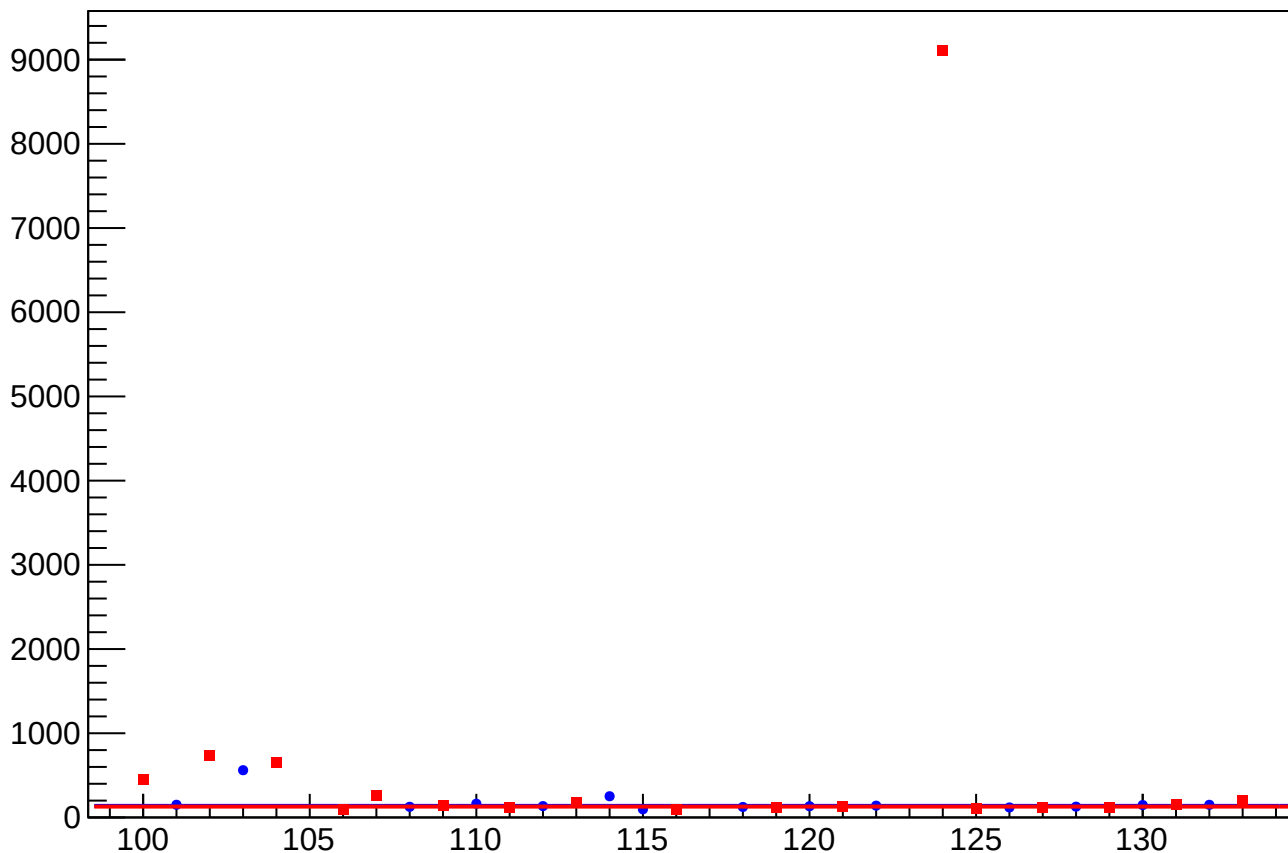
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.007 \pm 0.042$   $\chi^2/\text{NDF}$ : 35.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 137.353+/-0.043  $\chi^2/\text{NDF}$ : 827754.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 129.072+/-0.041  $\chi^2/\text{NDF}$ : 1968331.7/16

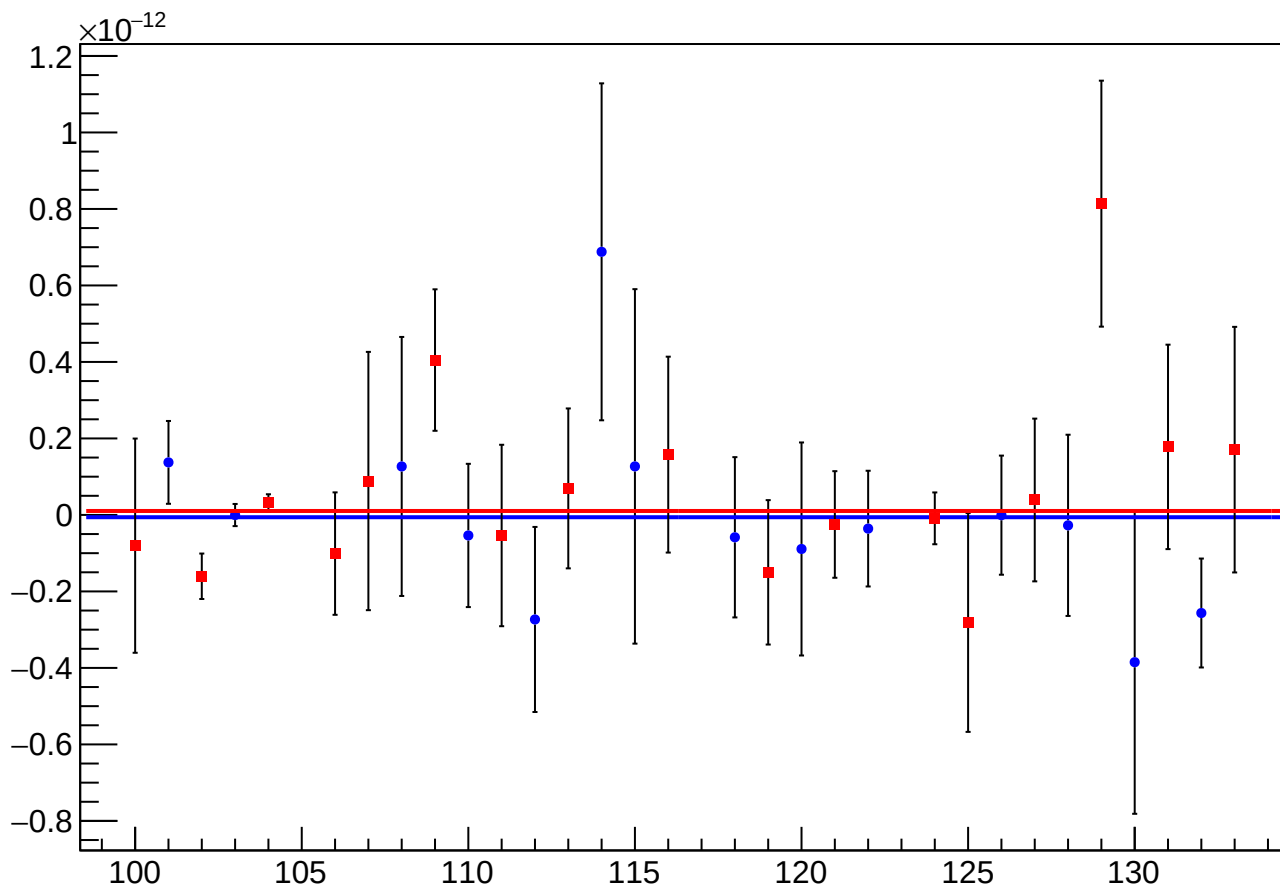
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 133.015+/-0.030  $\chi^2/\text{NDF}$ : 2815631.0/30

- 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+/-0.000  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 23.6/16

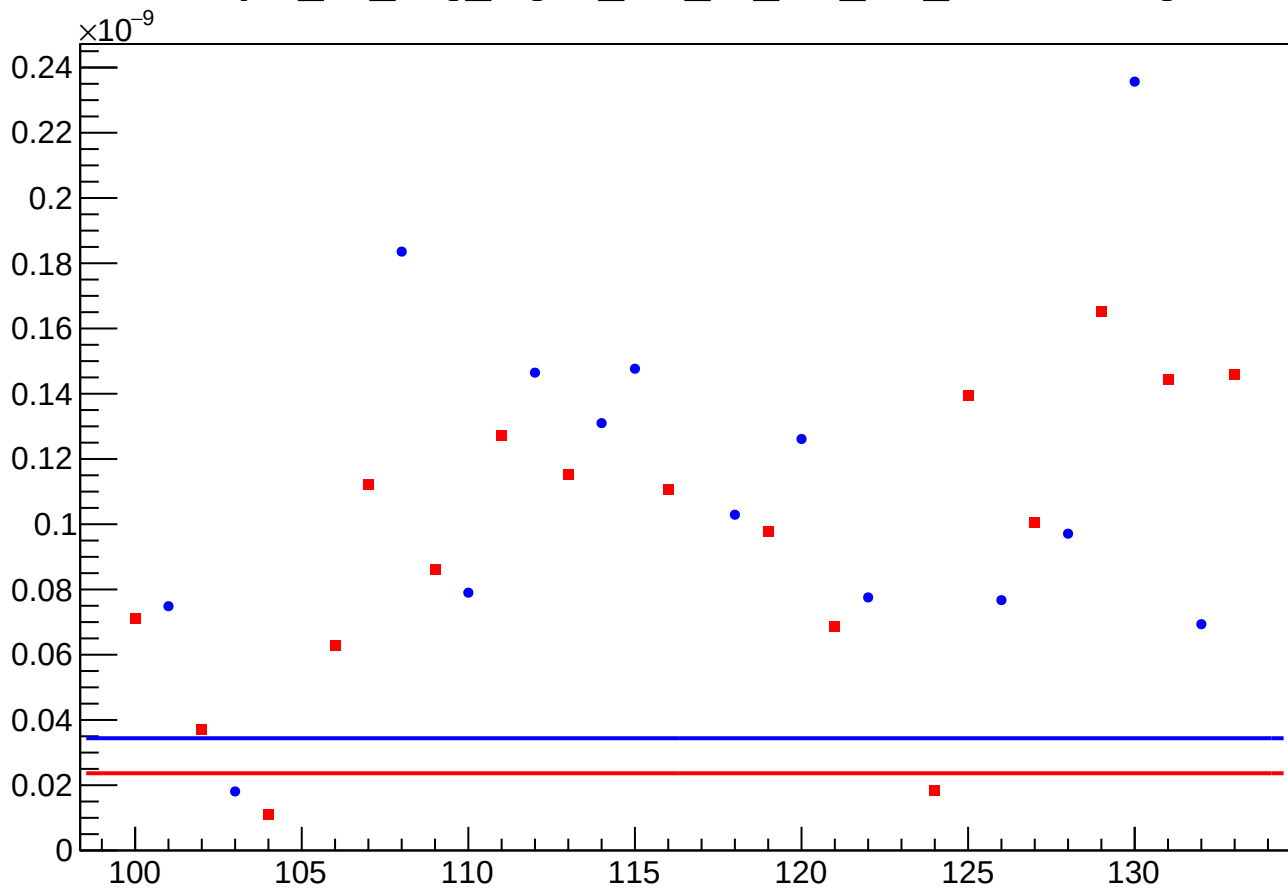
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 33.9/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3578102.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4451972.7/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

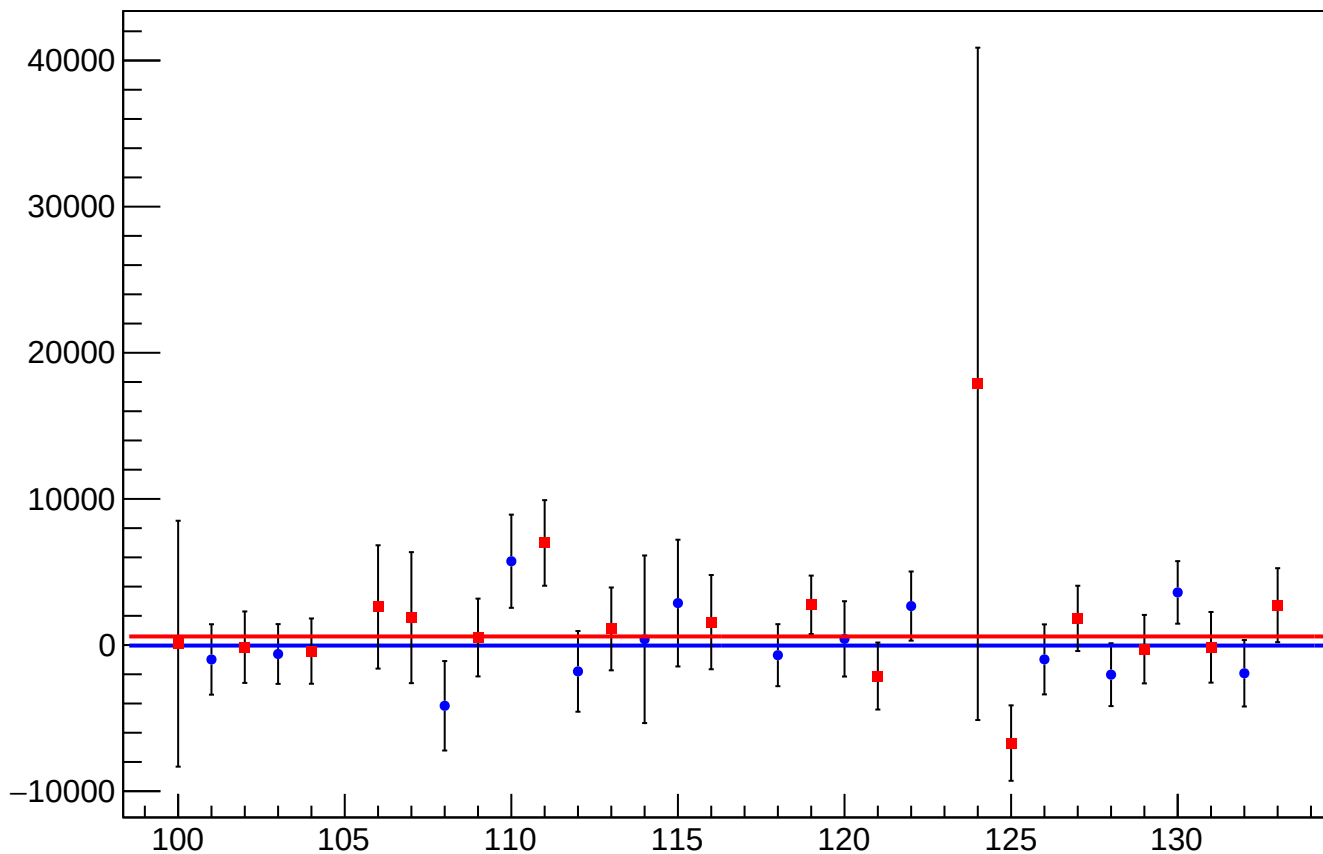
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8257083.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atl\_dd\_mean vs Slug



Right In:  $-35.286 \pm 676.512$   $\chi^2/\text{NDF}$ : 12.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $588.718 \pm 663.957$   $\chi^2/\text{NDF}$ : 17.9/16

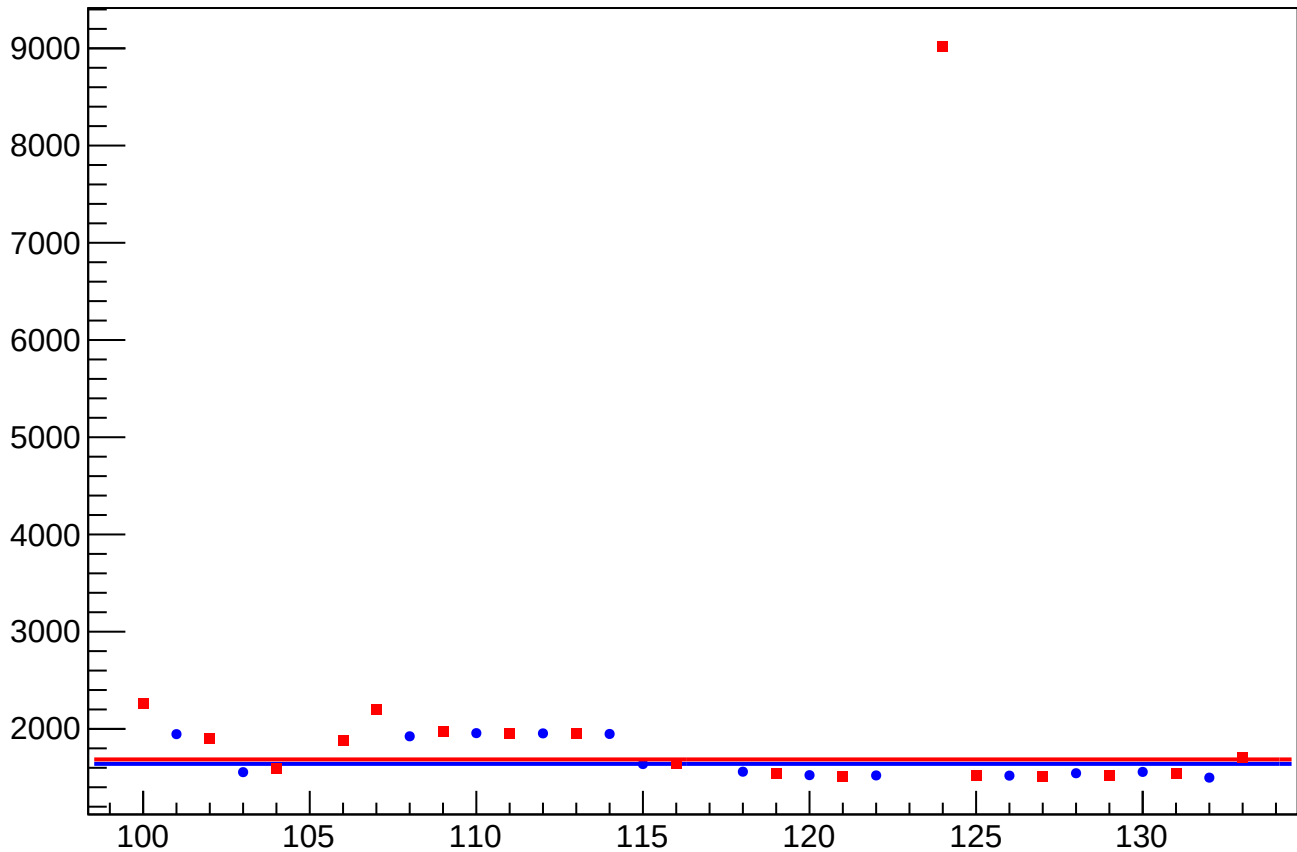
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $282.560 \pm 473.865$   $\chi^2/\text{NDF}$ : 30.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_rms vs Slug



Right In: 1640.449+/-0.478  $\chi^2/\text{NDF}$ : 135908.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1686.199+/-0.467  $\chi^2/\text{NDF}$ : 381462.4/16

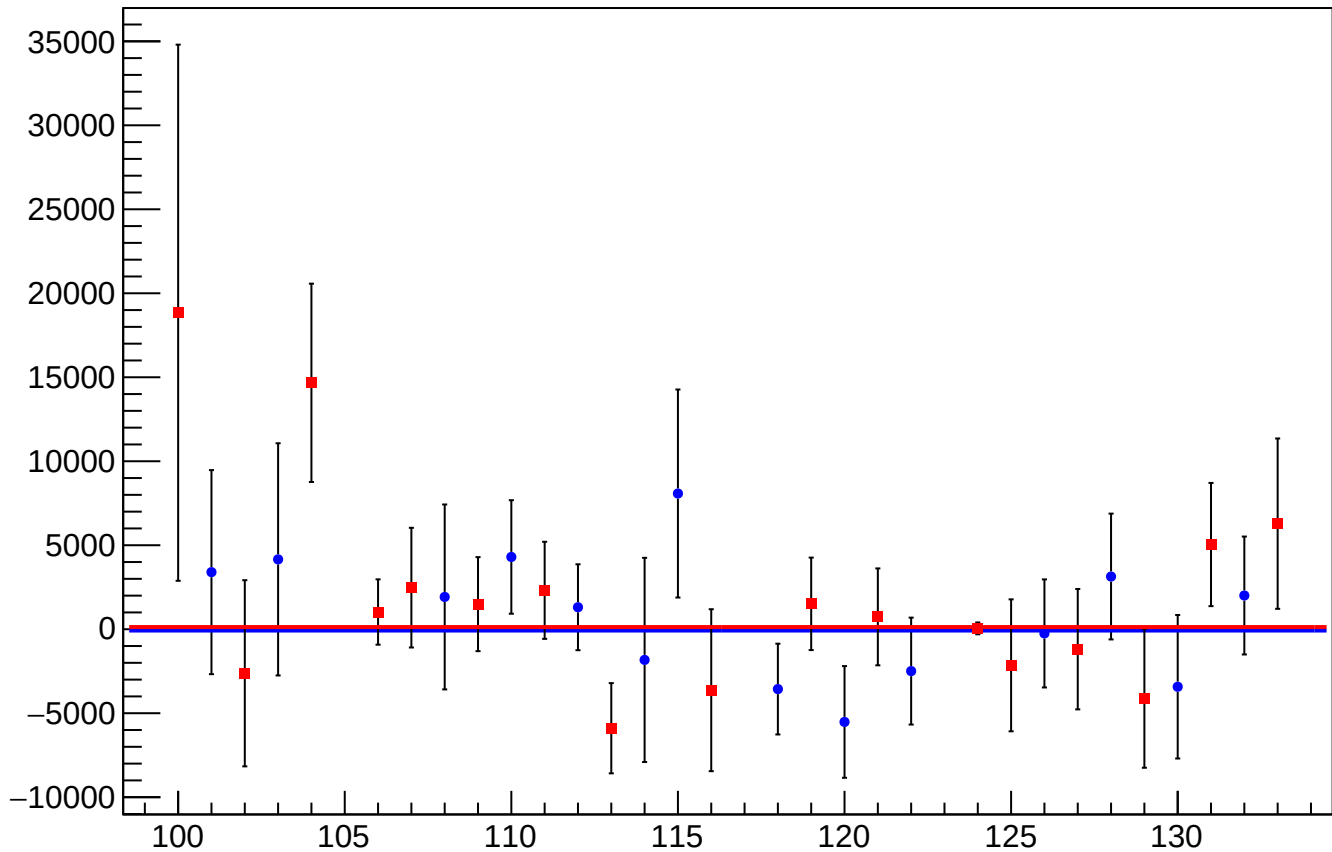
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1663.868+/-0.334  $\chi^2/\text{NDF}$ : 522052.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_reg\_correction\_mean vs Slug



Right In: -77.811+/-997.646  $\chi^2/\text{NDF}$ : 11.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 128.473+/-324.511  $\chi^2/\text{NDF}$ : 19.9/16

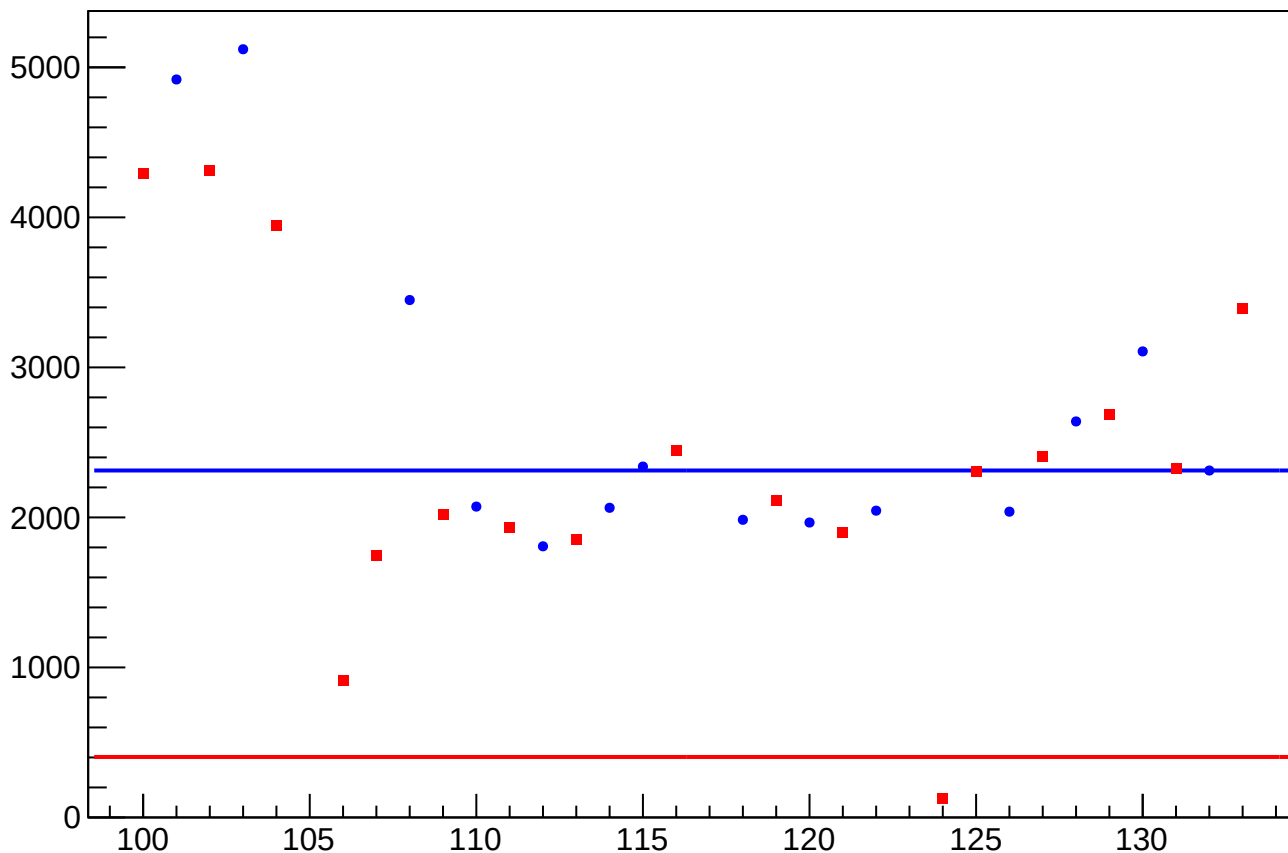
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 108.735+/-308.596  $\chi^2/\text{NDF}$ : 31.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_reg\_correction\_rms vs Slug



Right In: 2312.774 $\pm$ 0.705  $\chi^2$ /NDF: 1039509.3/13

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

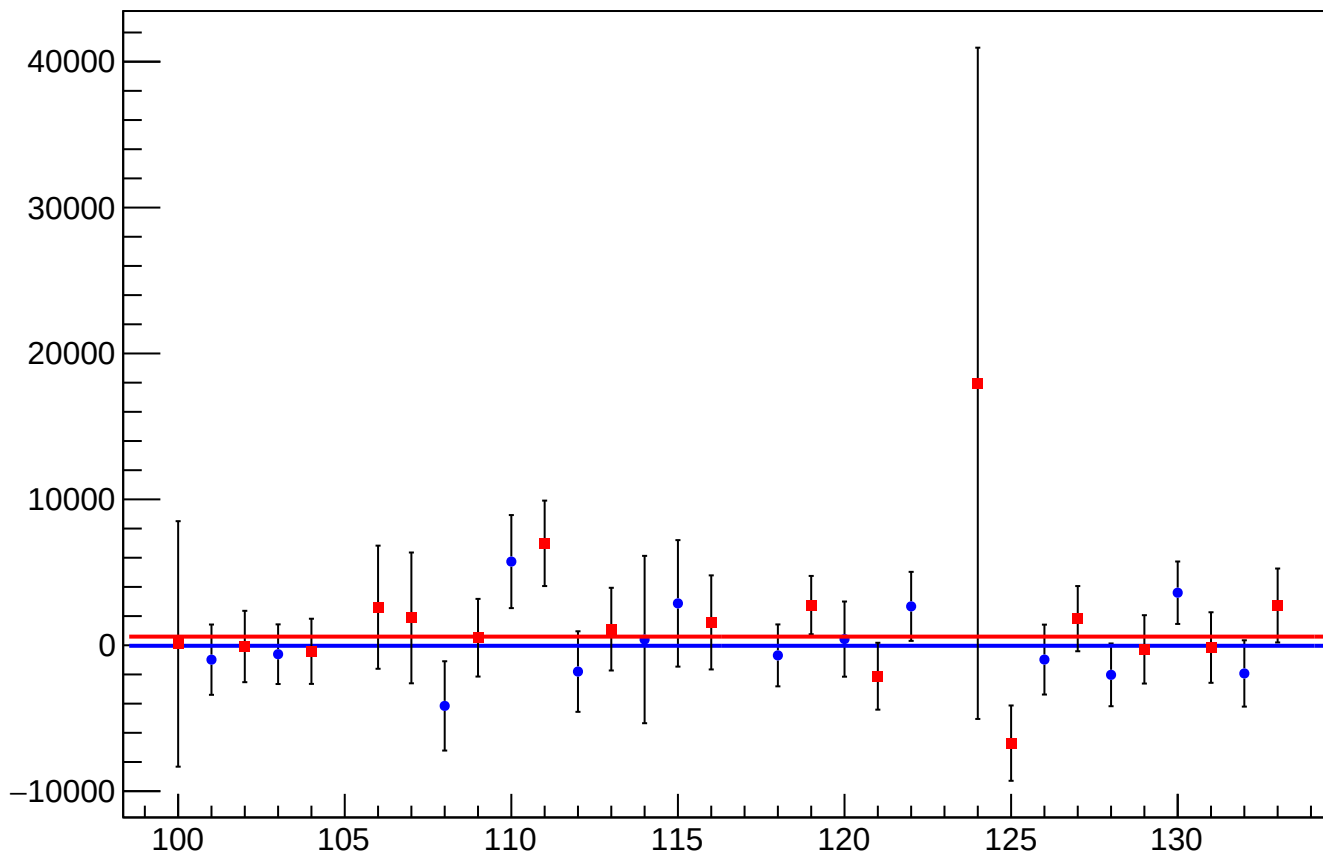
Right Out: 403.136 $\pm$ 0.229  $\chi^2$ /NDF: 9923950.3/16

All: 585.853 $\pm$ 0.218  $\chi^2$ /NDF: 17590202.0/30

- 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:  $-35.443 \pm 676.512$   $\chi^2/\text{NDF}$ : 12.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $593.396 \pm 663.964$   $\chi^2/\text{NDF}$ : 17.9/16

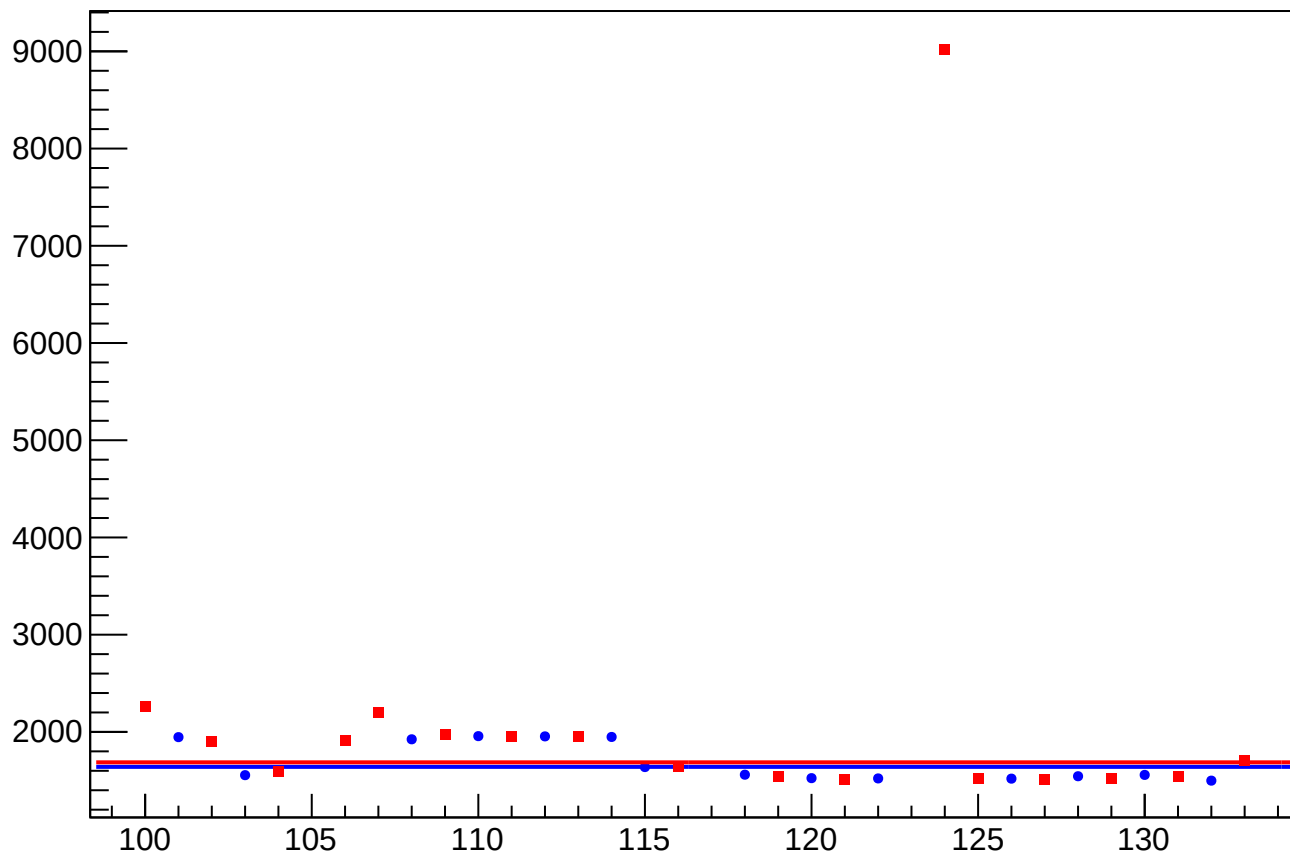
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $284.863 \pm 473.867$   $\chi^2/\text{NDF}$ : 30.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_dd\_rms vs Slug



Right In: 1640.448 $\pm$ 0.478  $\chi^2$ /NDF: 135908.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1687.059 $\pm$ 0.467  $\chi^2$ /NDF: 383295.3/16

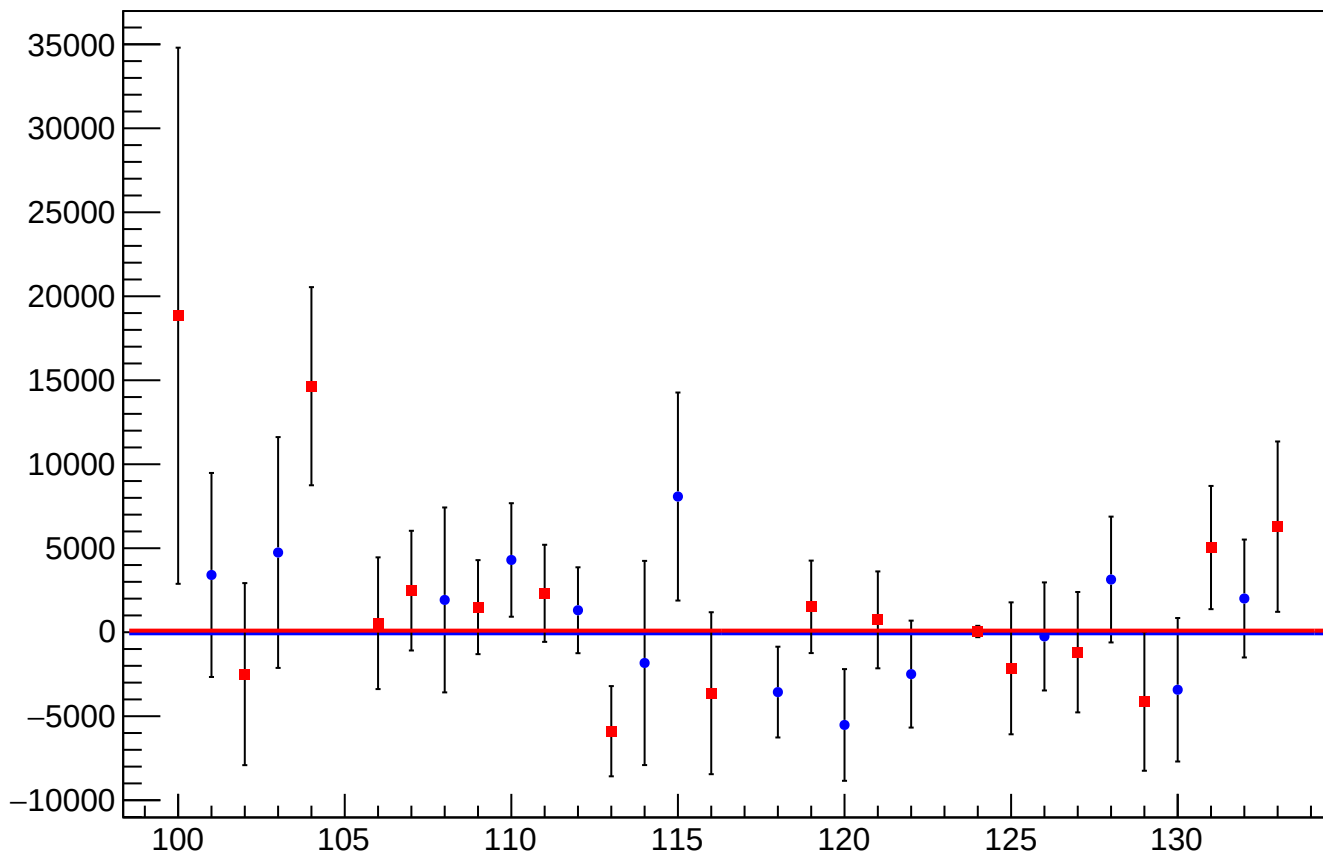
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1664.296 $\pm$ 0.334  $\chi^2$ /NDF: 524060.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_cor\_correction\_mean vs Slug



Right In: -64.194+/-997.514  $\chi^2/\text{NDF}$ : 11.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.831+/-316.496  $\chi^2/\text{NDF}$ : 19.7/16

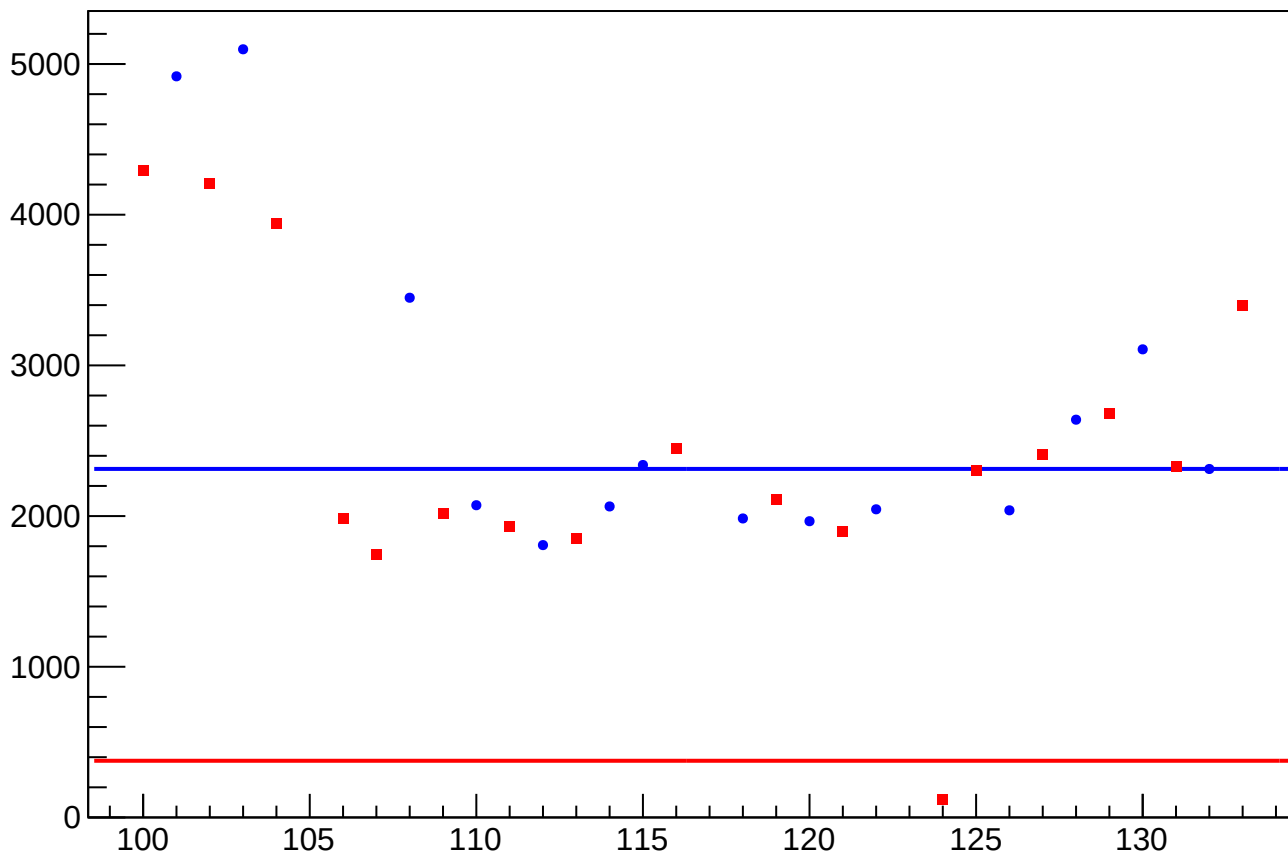
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 80.286+/-301.676  $\chi^2/\text{NDF}$ : 31.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_cor\_correction\_rms vs Slug



Right In: 2312.984 $\pm$ 0.705  $\chi^2$ /NDF: 1037906.4/13

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: 376.217 $\pm$ 0.224  $\chi^2$ /NDF: 10250095.0/16

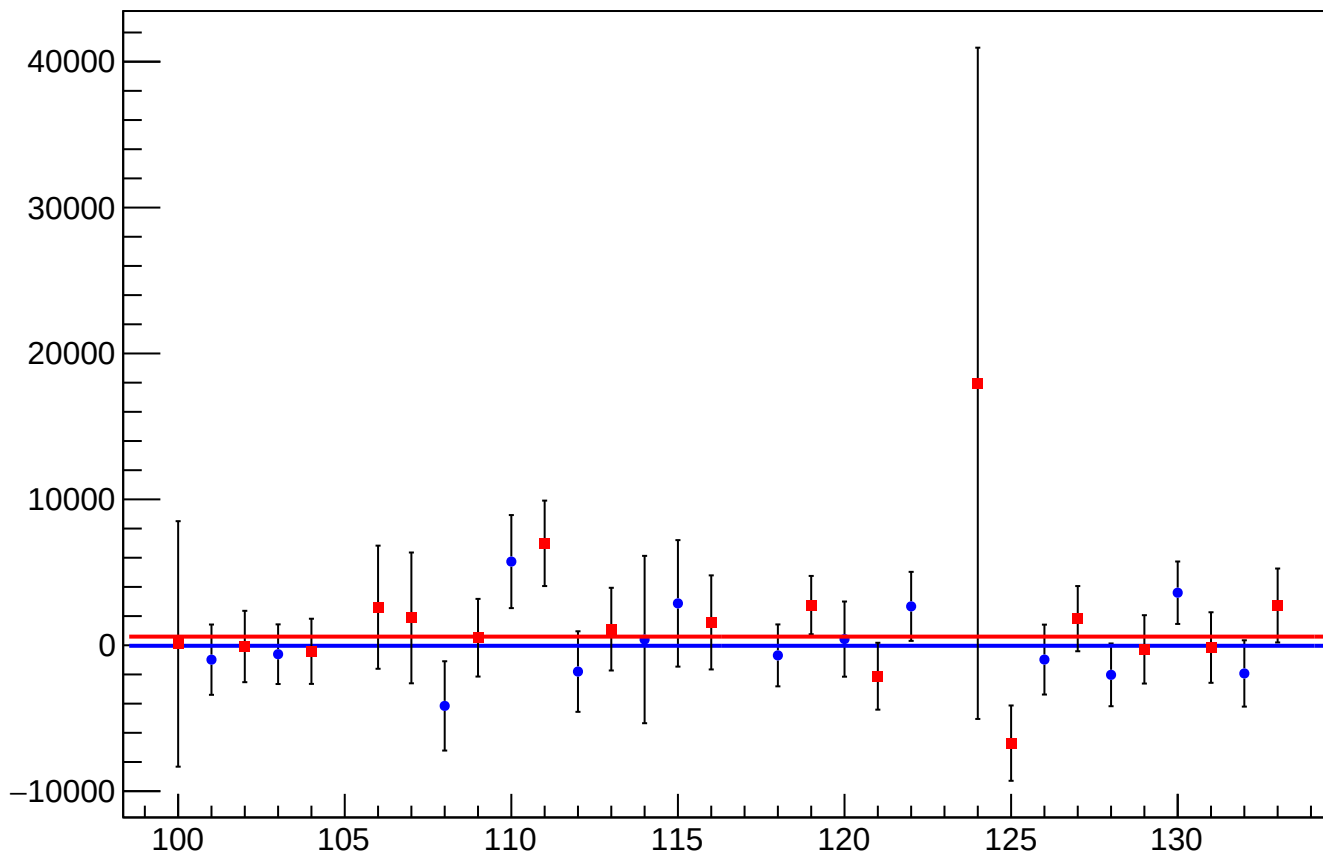
All: 553.358 $\pm$ 0.213  $\chi^2$ /NDF: 18137988.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_cor\_asym\_atl\_dd\_mean vs Slug



Right In:  $-35.443 \pm 676.512$   $\chi^2/\text{NDF}$ : 12.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $593.396 \pm 663.964$   $\chi^2/\text{NDF}$ : 17.9/16

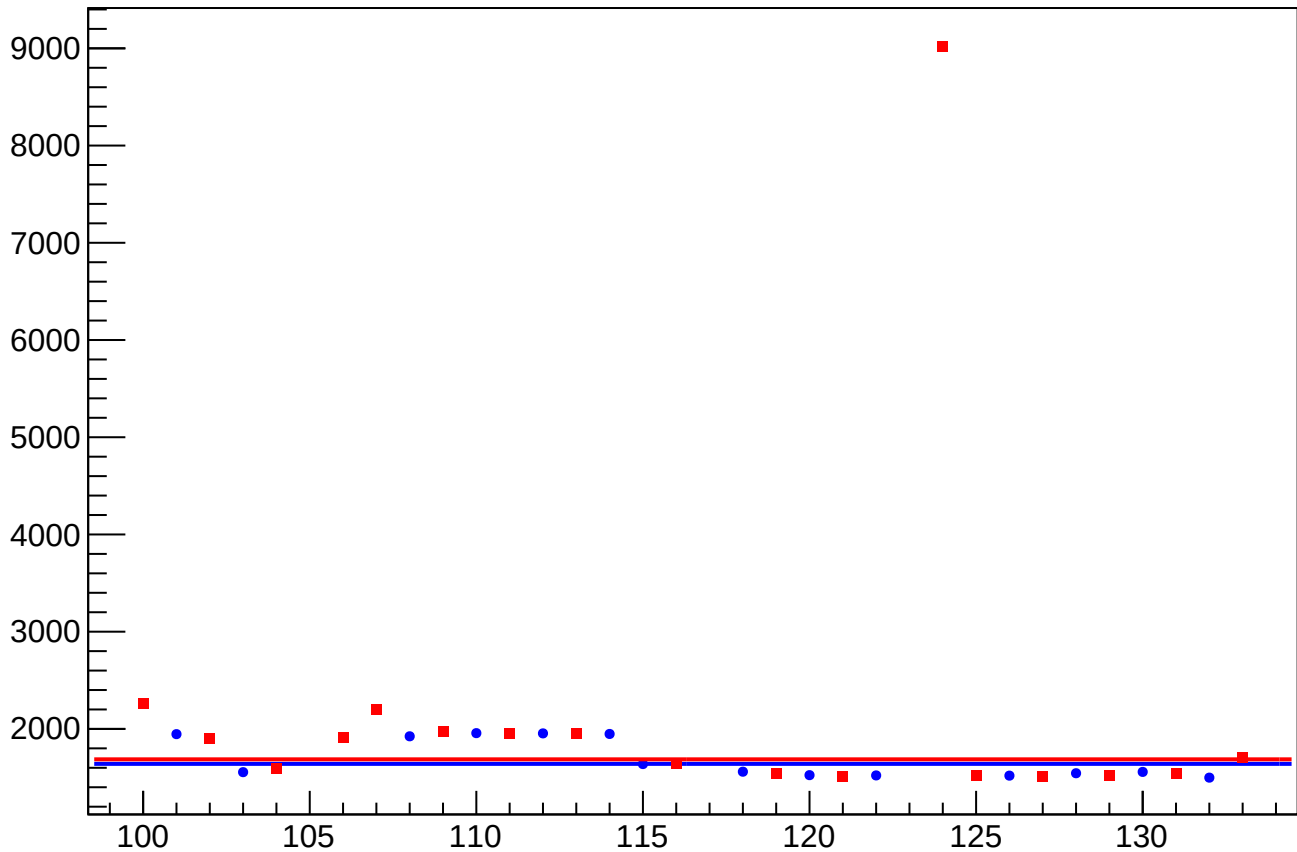
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $284.863 \pm 473.867$   $\chi^2/\text{NDF}$ : 30.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl\_dd\_rms vs Slug



Right In: 1640.448 $\pm$ 0.478  $\chi^2$ /NDF: 135908.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1687.059 $\pm$ 0.467  $\chi^2$ /NDF: 383295.3/16

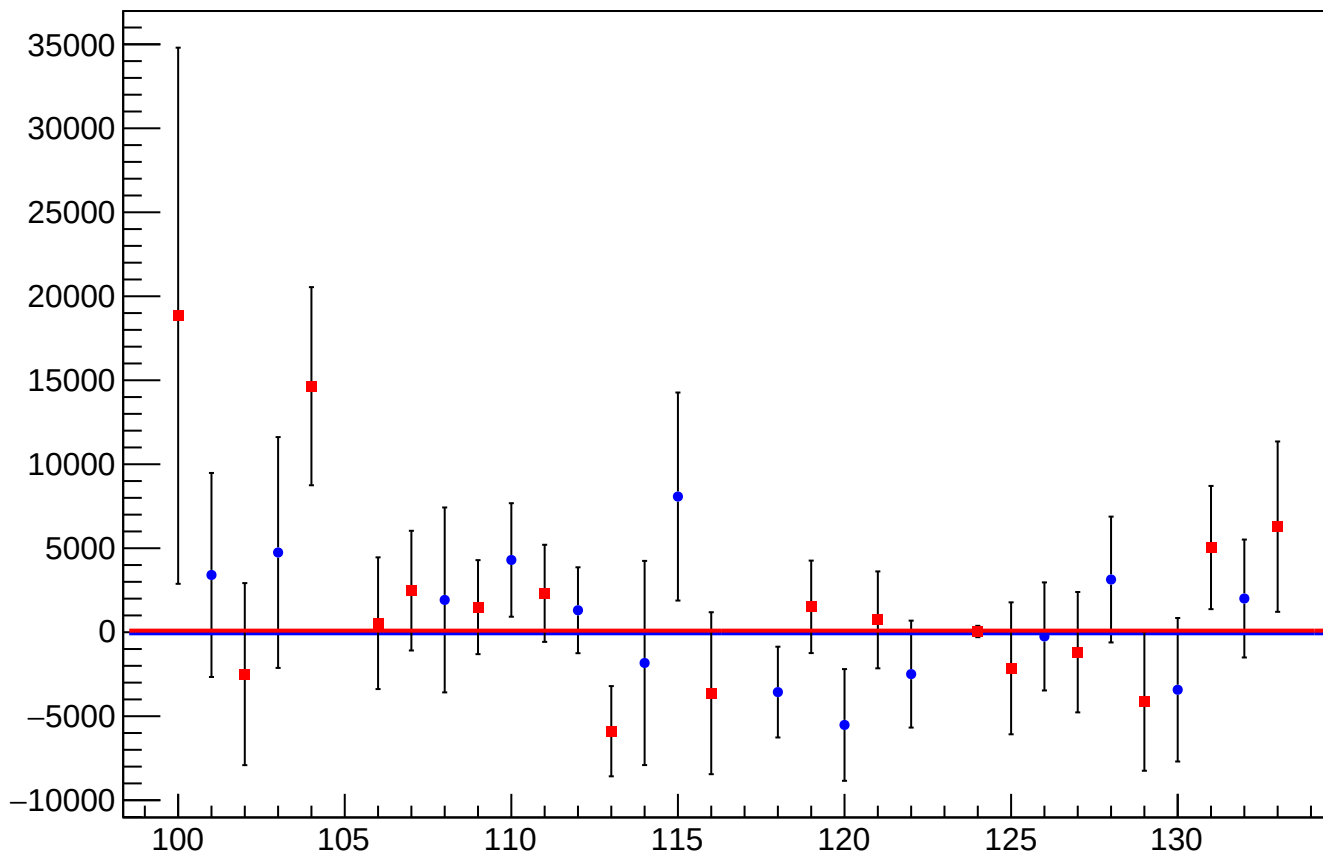
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1664.296 $\pm$ 0.334  $\chi^2$ /NDF: 524060.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -64.194+/-997.514  $\chi^2/\text{NDF}$ : 11.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.831+/-316.496  $\chi^2/\text{NDF}$ : 19.7/16

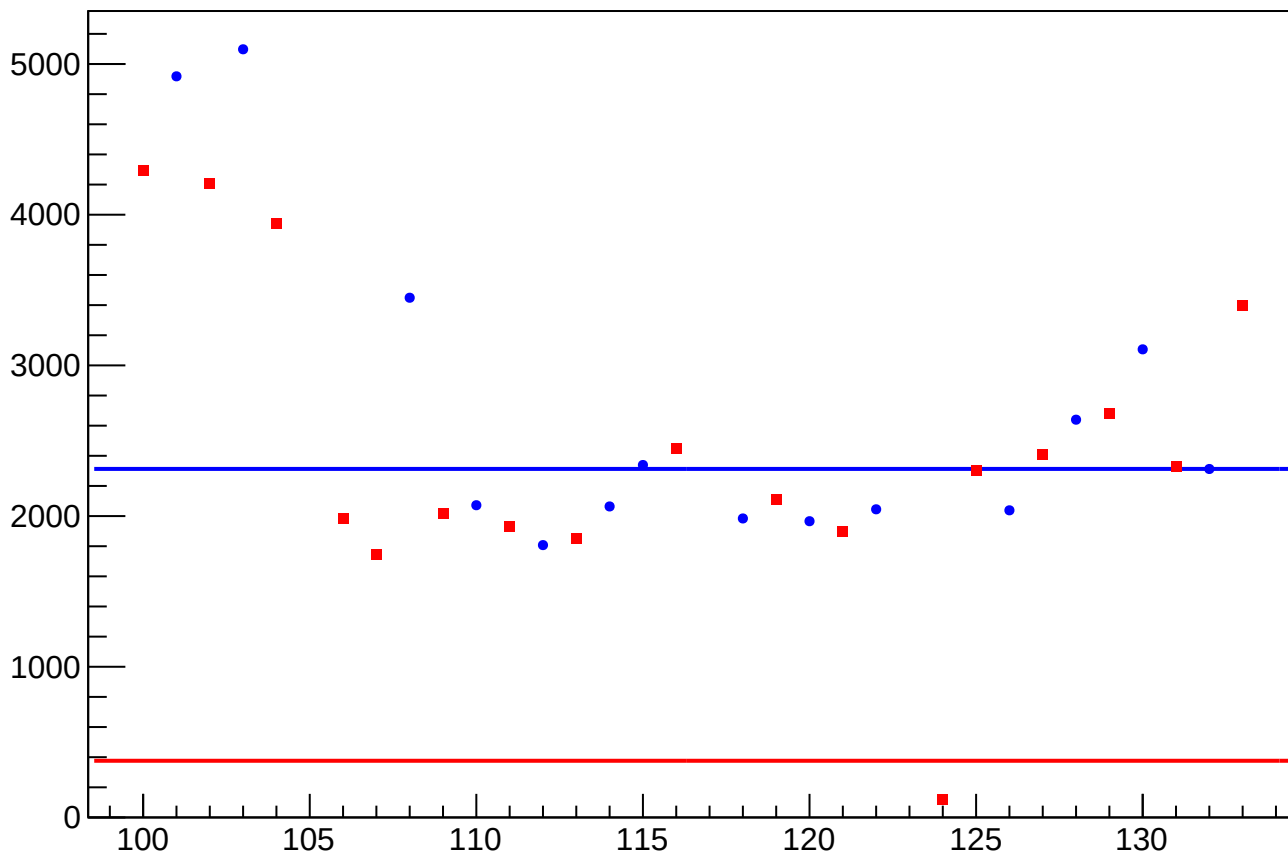
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 80.286+/-301.676  $\chi^2/\text{NDF}$ : 31.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 2312.984 $\pm$ 0.705  $\chi^2$ /NDF: 1037906.4/13

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

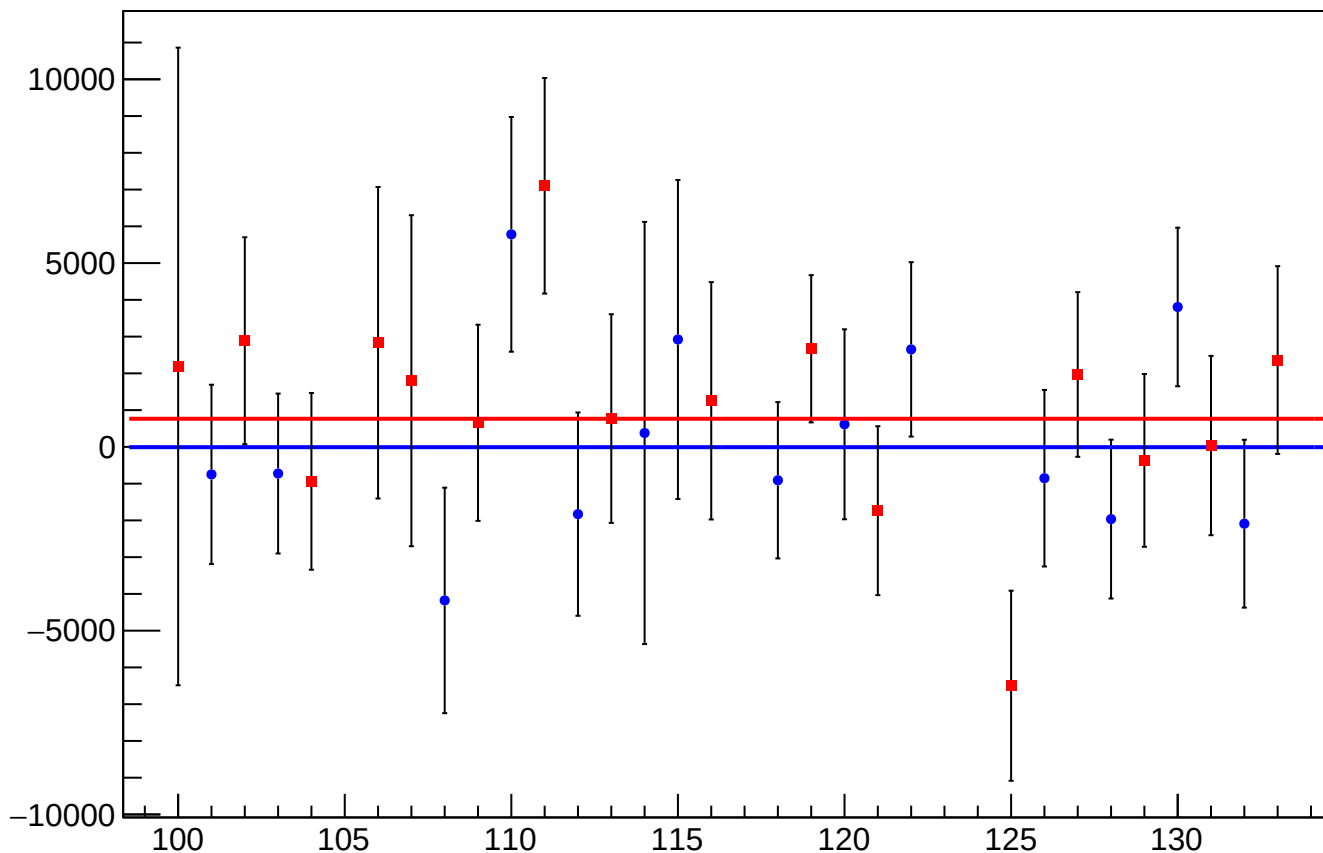
Right Out: 376.217 $\pm$ 0.224  $\chi^2$ /NDF: 10250095.0/16

All: 553.358 $\pm$ 0.213  $\chi^2$ /NDF: 18137988.7/30

- 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\_atl\_dd\_mean vs Slug



Right In: -8.271+/-683.486  $\chi^2/\text{NDF}$ : 12.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 764.763+/-676.602  $\chi^2/\text{NDF}$ : 17.1/15

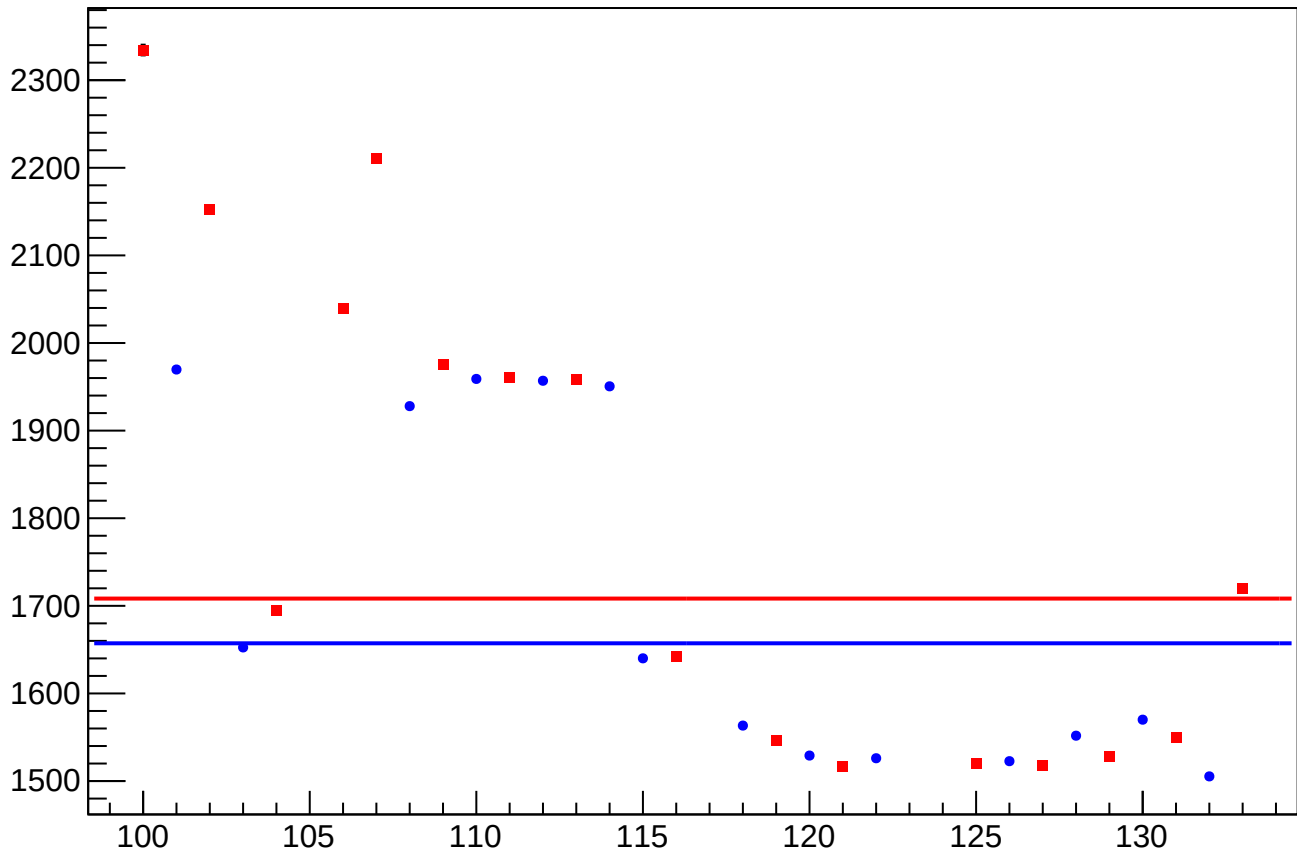
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 382.159+/-480.846  $\chi^2/\text{NDF}$ : 30.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl\_dd\_rms vs Slug



Right In: 1657.239+/-0.483  $\chi^2/\text{NDF}$ : 133093.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1708.295+/-0.477  $\chi^2/\text{NDF}$ : 223254.3/15

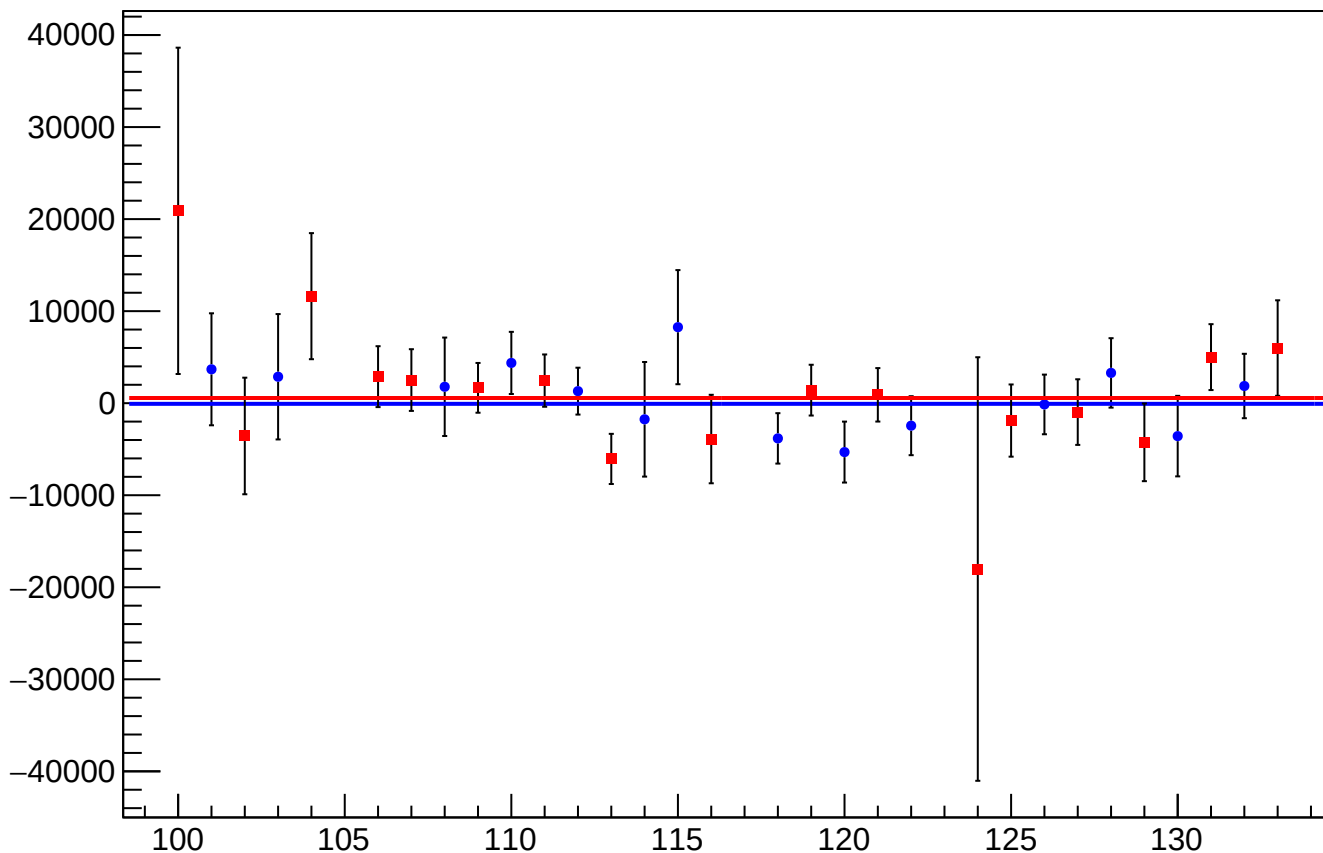
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1683.091+/-0.340  $\chi^2/\text{NDF}$ : 361998.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_dit\_correction\_mean vs Slug



Right In:  $-70.221 \pm 1000.666$   $\chi^2/\text{NDF}$ : 11.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $563.197 \pm 899.713$   $\chi^2/\text{NDF}$ : 17.8/16

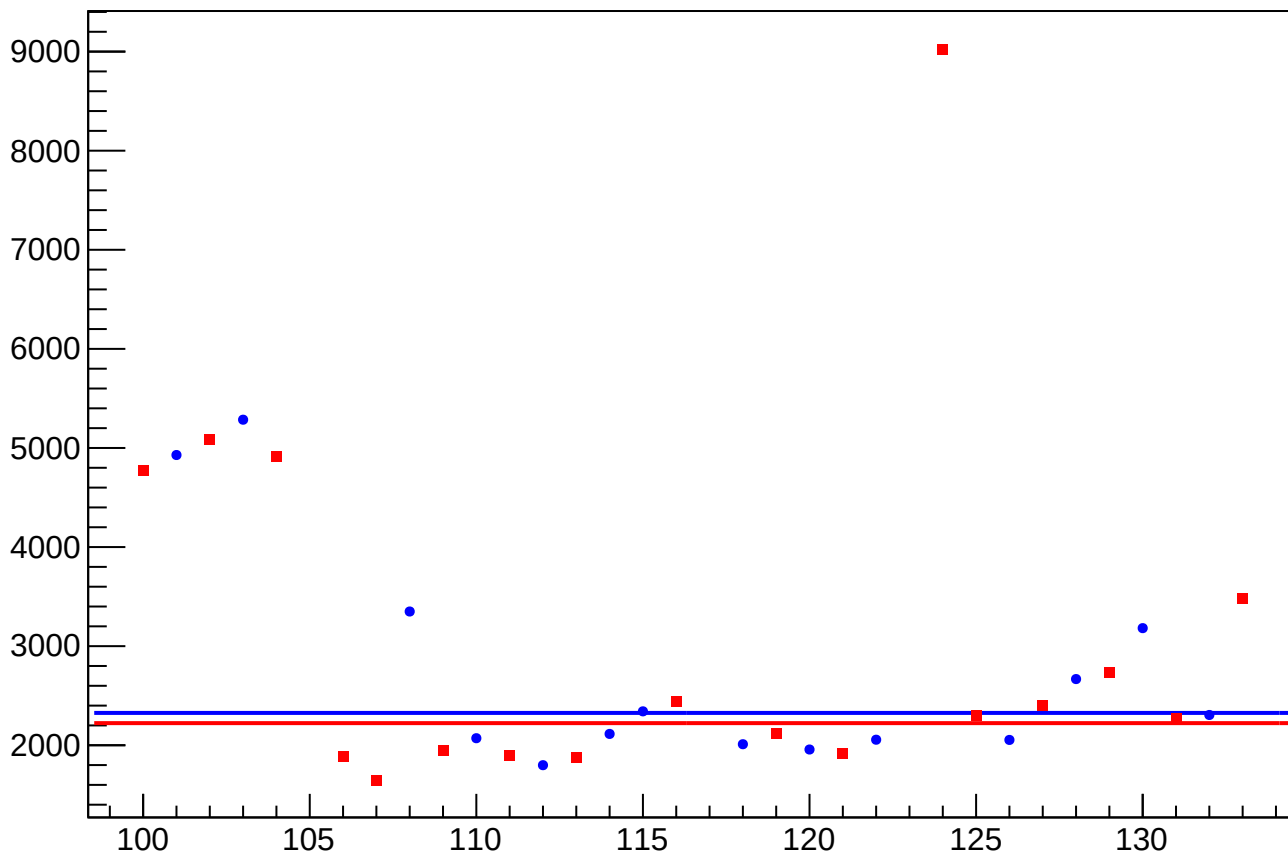
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $280.042 \pm 669.046$   $\chi^2/\text{NDF}$ : 29.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_dit\_correction\_rms vs Slug



Right In: 2326.307+/-0.708  $\chi^2/\text{NDF}$ : 1089079.3/13

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: 2223.237+/-0.636  $\chi^2/\text{NDF}$ : 1276475.9/16

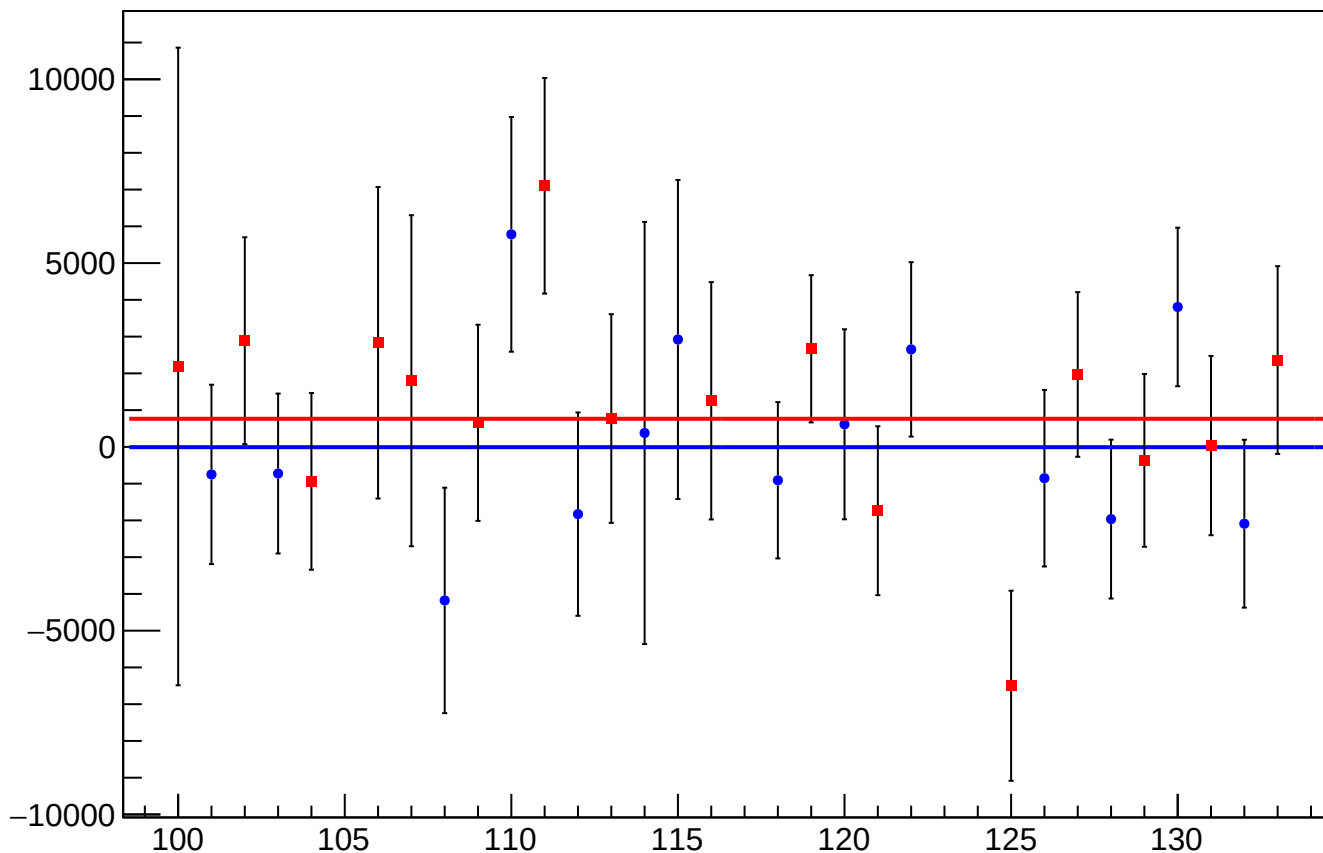
All: 2269.312+/-0.473  $\chi^2/\text{NDF}$ : 2377288.5/30

- 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\_dd\_mean vs Slug



Right In: -8.278+/-683.486  $\chi^2/\text{NDF}$ : 12.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 764.766+/-676.602  $\chi^2/\text{NDF}$ : 17.1/15

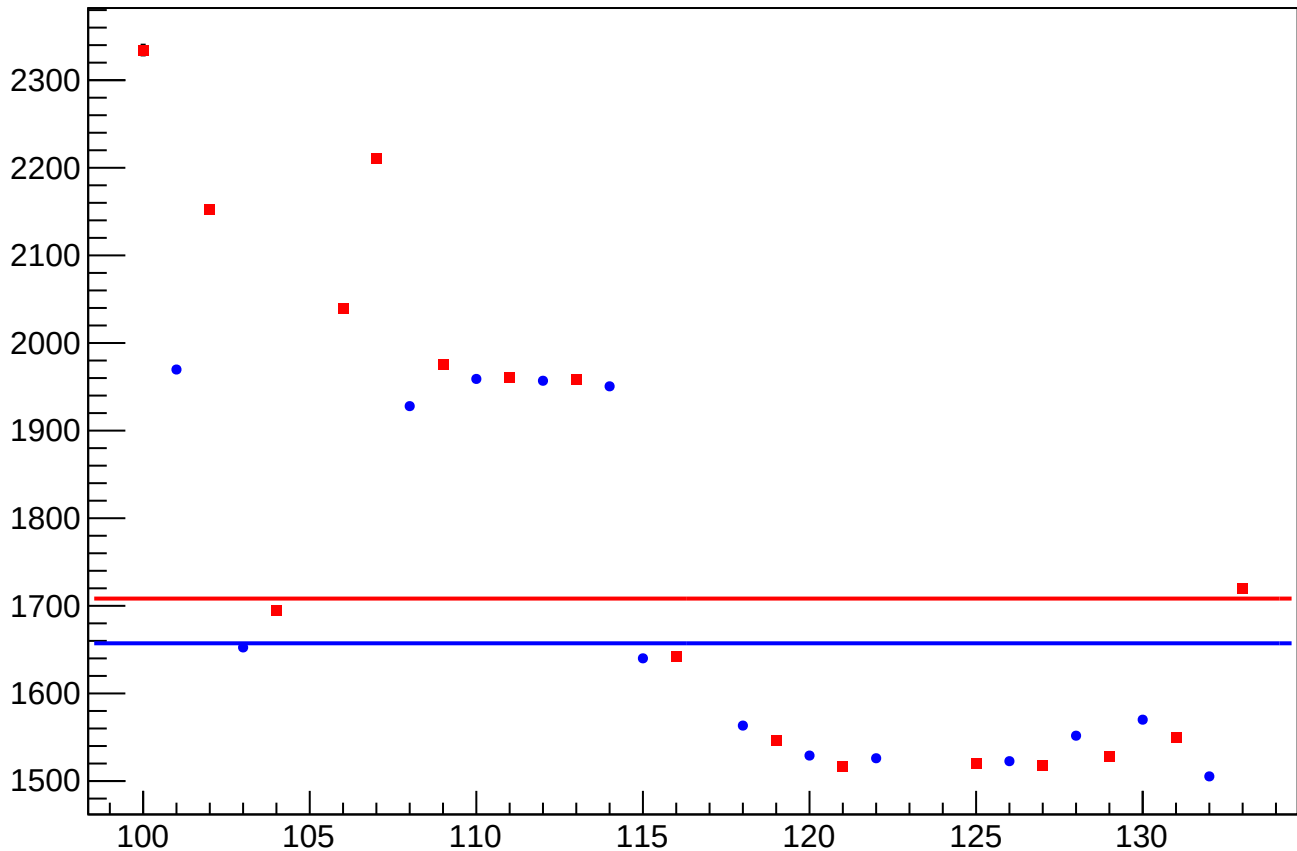
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 382.157+/-480.845  $\chi^2/\text{NDF}$ : 30.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl\_dd\_rms vs Slug



Right In: 1657.239+/-0.483  $\chi^2/\text{NDF}$ : 133093.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1708.295+/-0.477  $\chi^2/\text{NDF}$ : 223253.5/15

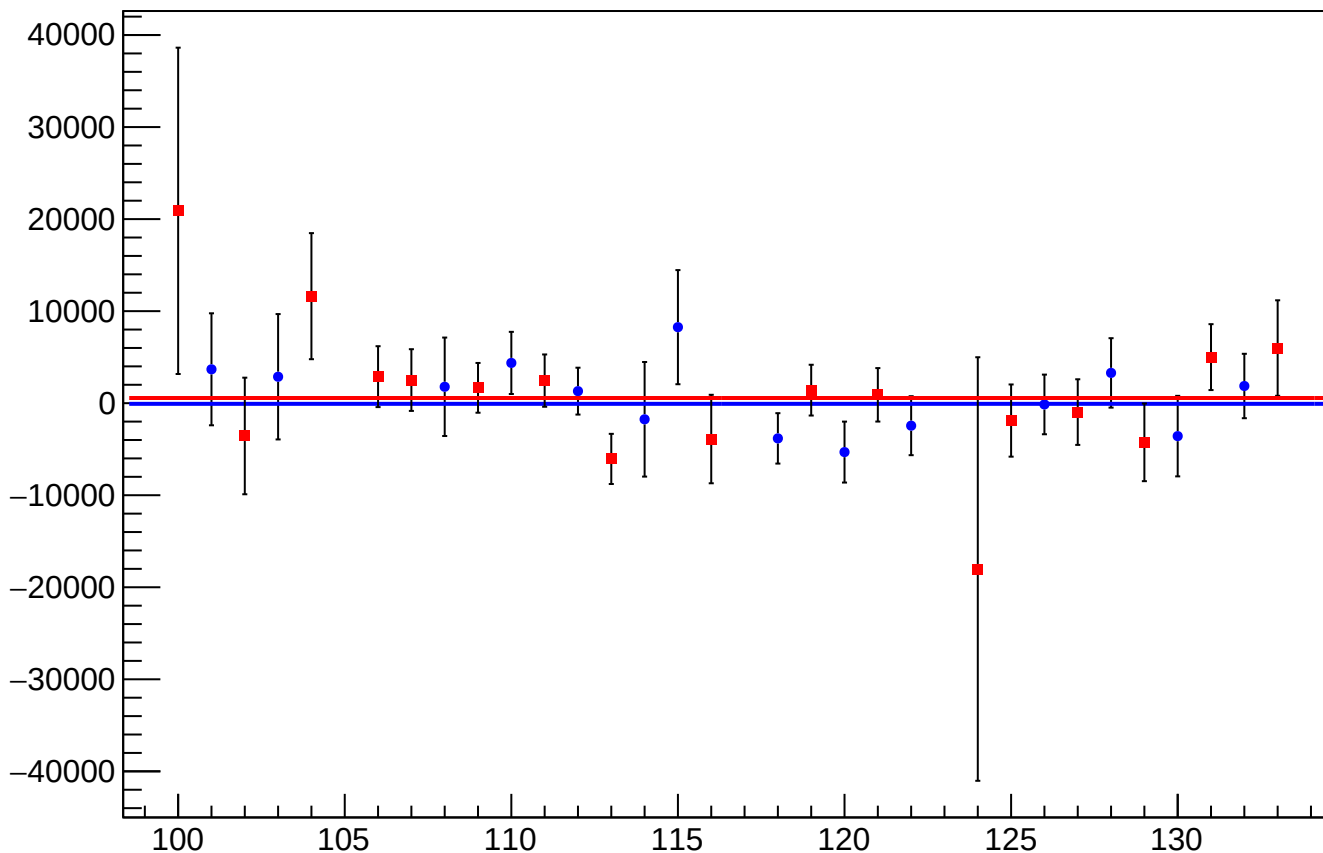
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1683.090+/-0.340  $\chi^2/\text{NDF}$ : 361997.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -70.225+/-1000.662  $\chi^2/\text{NDF}$ : 11.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 563.199+/-899.710  $\chi^2/\text{NDF}$ : 17.8/16

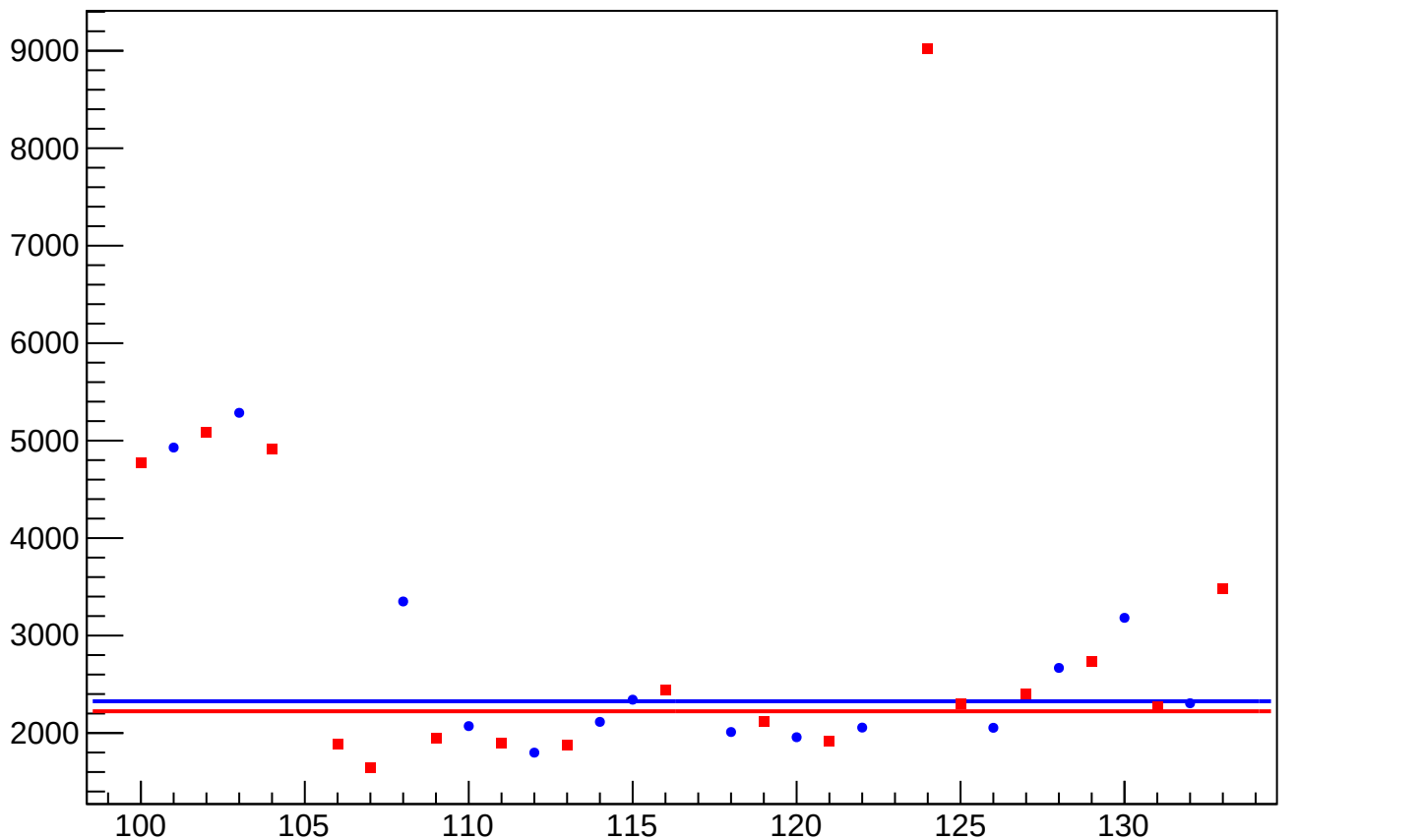
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 280.041+/-669.043  $\chi^2/\text{NDF}$ : 29.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 2326.296 $\pm$ 0.708  $\chi^2$ /NDF: 1089086.0/13

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

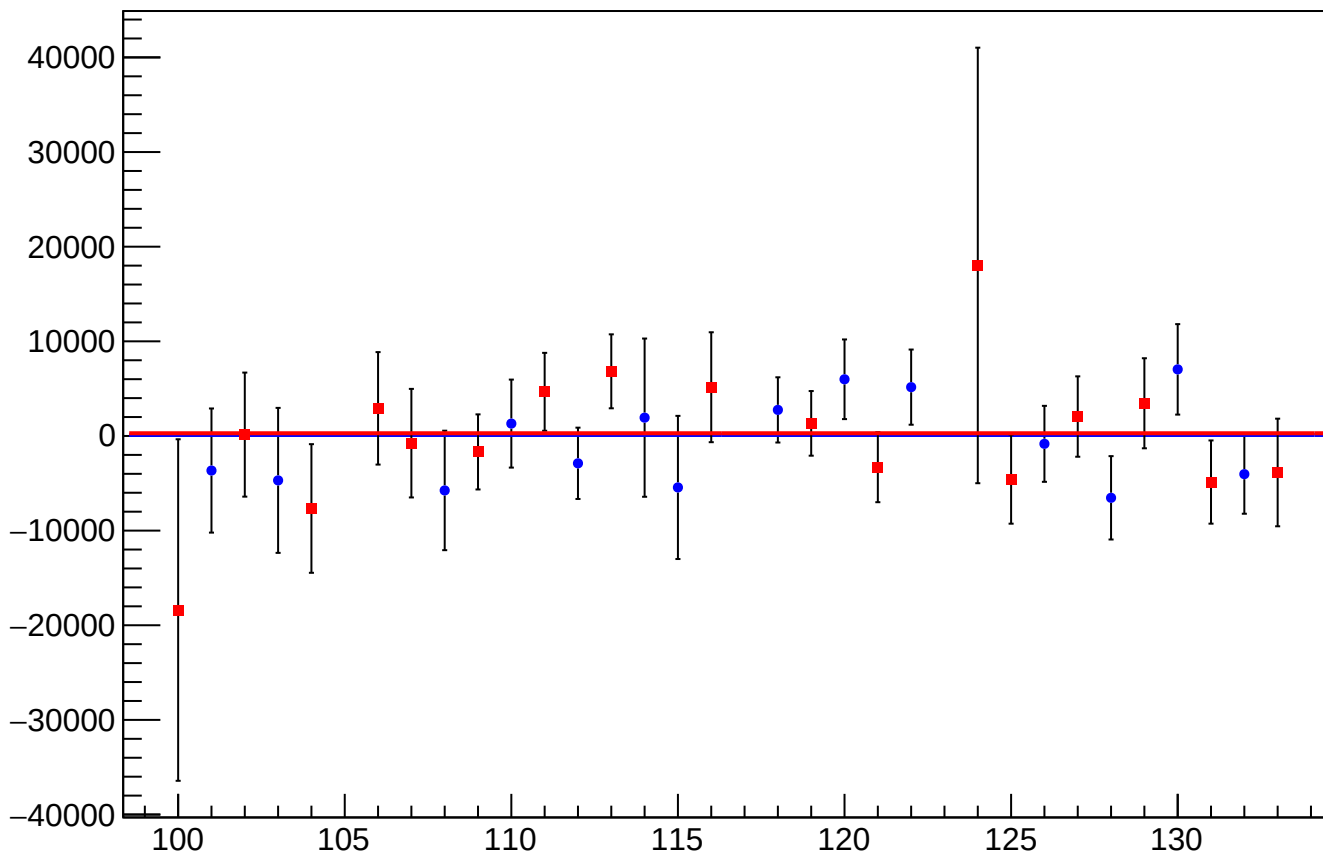
Right Out: 2223.228 $\pm$ 0.636  $\chi^2$ /NDF: 1276480.2/16

All: 2269.303 $\pm$ 0.473  $\chi^2$ /NDF: 2377299.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_mean vs Slug



Right In: 105.662 $\pm$ 1257.459  $\chi^2$ /NDF: 12.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 287.954 $\pm$ 1184.584  $\chi^2$ /NDF: 12.8/16

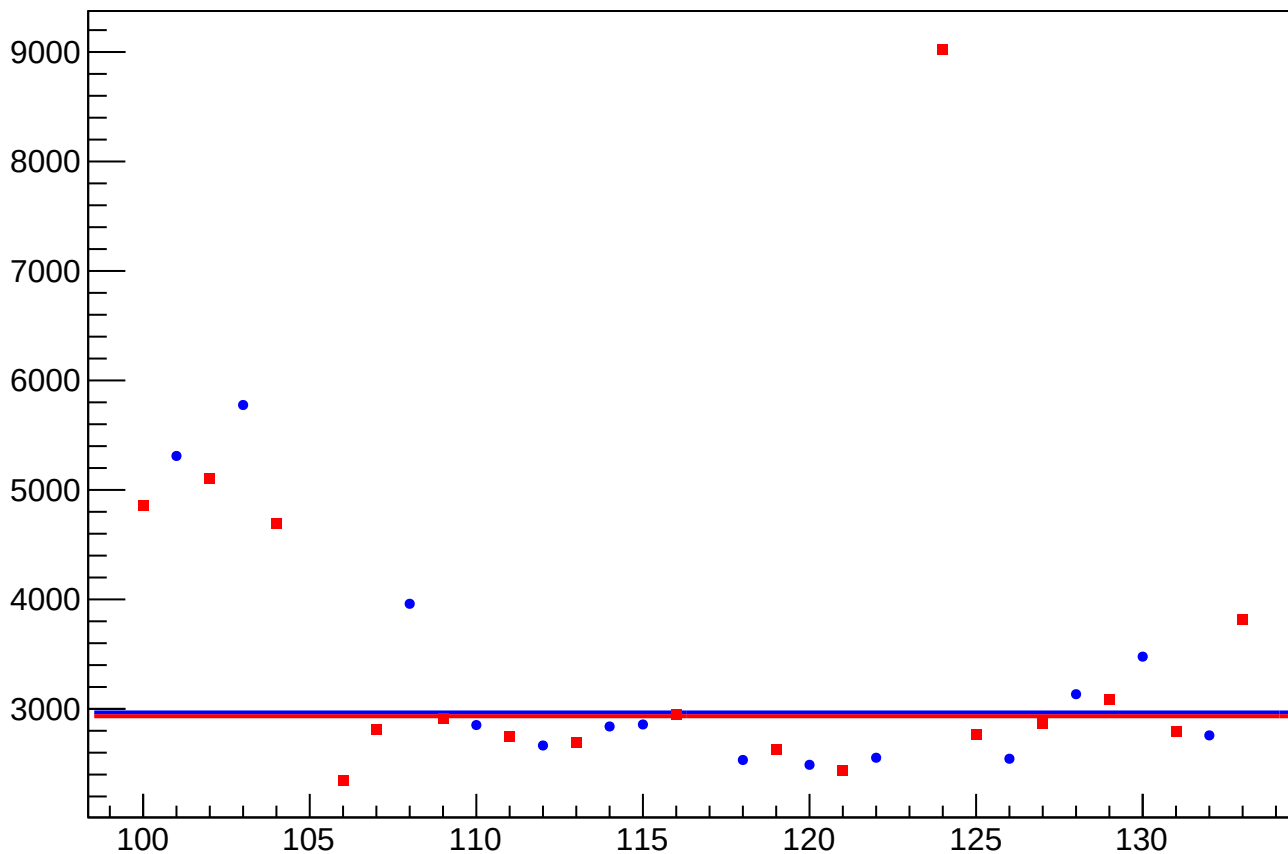
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 202.243 $\pm$ 862.240  $\chi^2$ /NDF: 25.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_rms vs Slug



Right In: 2967.202+/-0.889  $\chi^2/\text{NDF}$ : 720558.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2932.522+/-0.826  $\chi^2/\text{NDF}$ : 670040.0/16

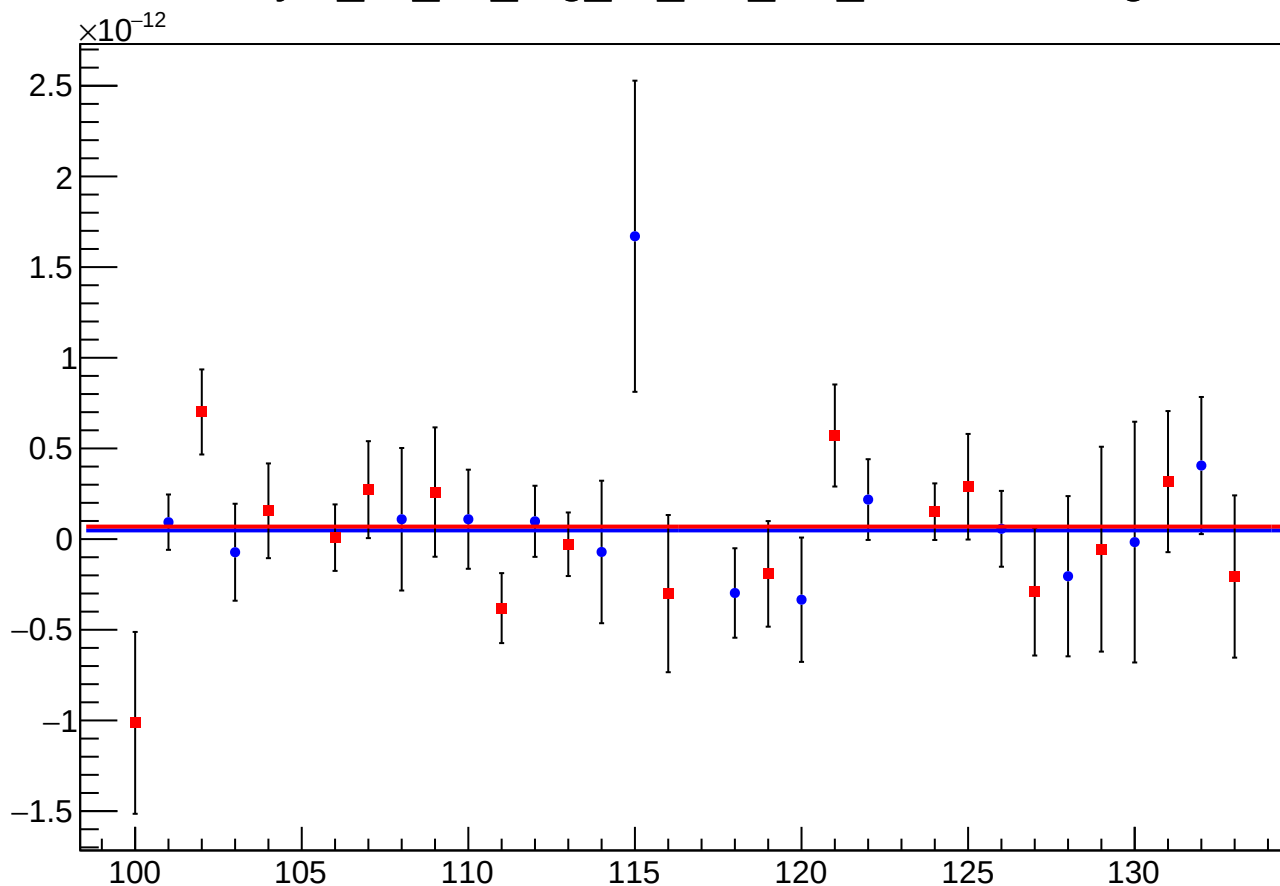
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2948.581+/-0.605  $\chi^2/\text{NDF}$ : 1391415.2/30

- 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 +/- 0.000  $\chi^2/\text{NDF}$ : 9.1/13

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 26.2/16

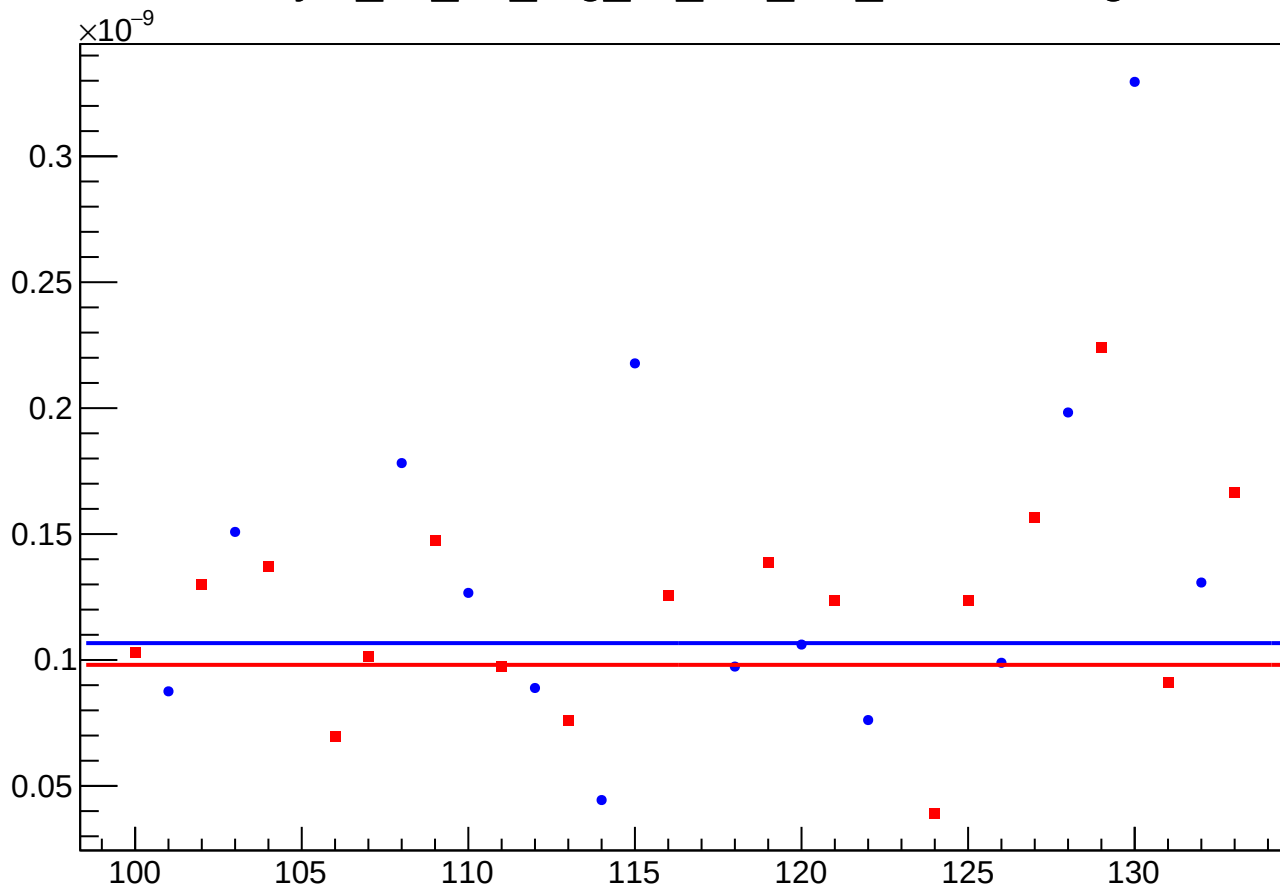
Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 35.3/30

- sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 625907.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 768421.7/16

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

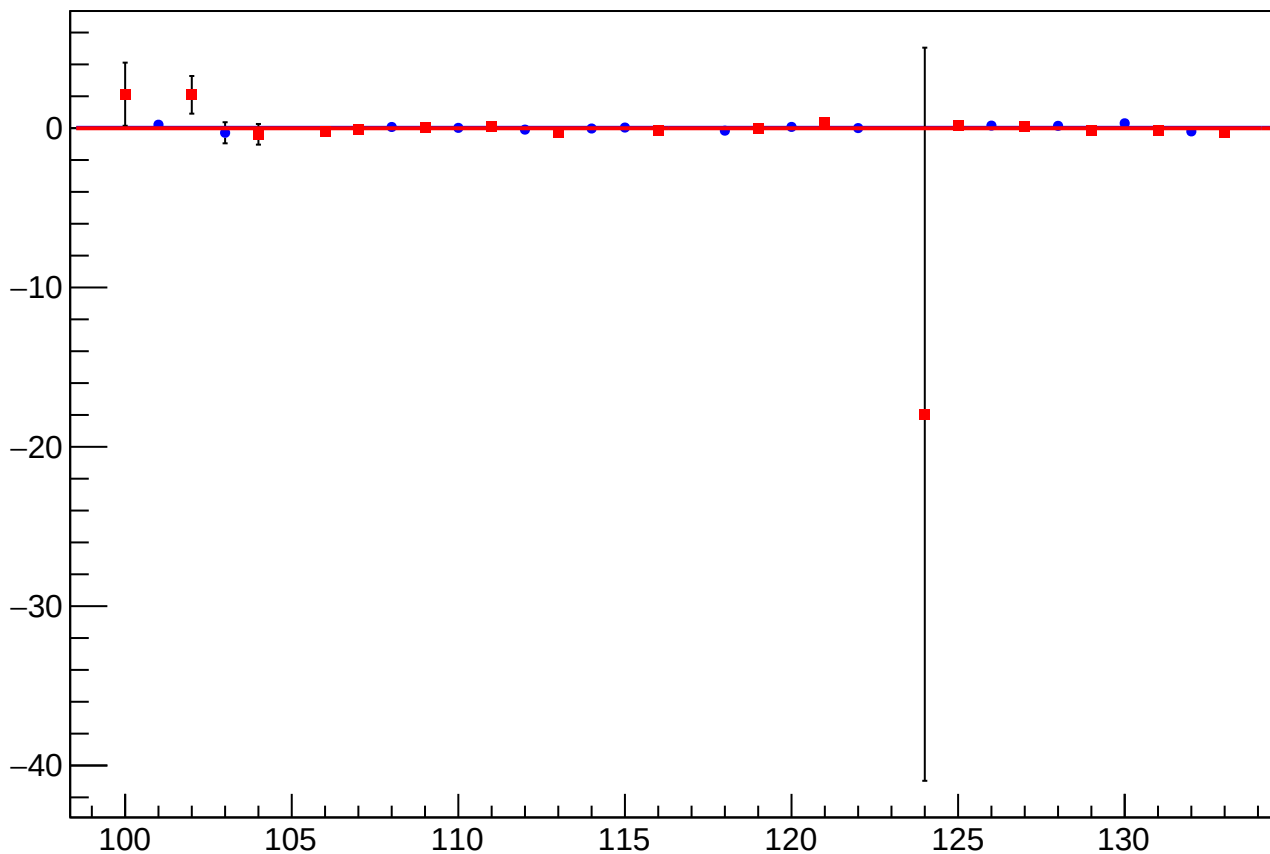
+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 1410652.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.020 $\pm$ 0.047  $\chi^2$ /NDF: 8.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.008 $\pm$ 0.044  $\chi^2$ /NDF: 21.5/16

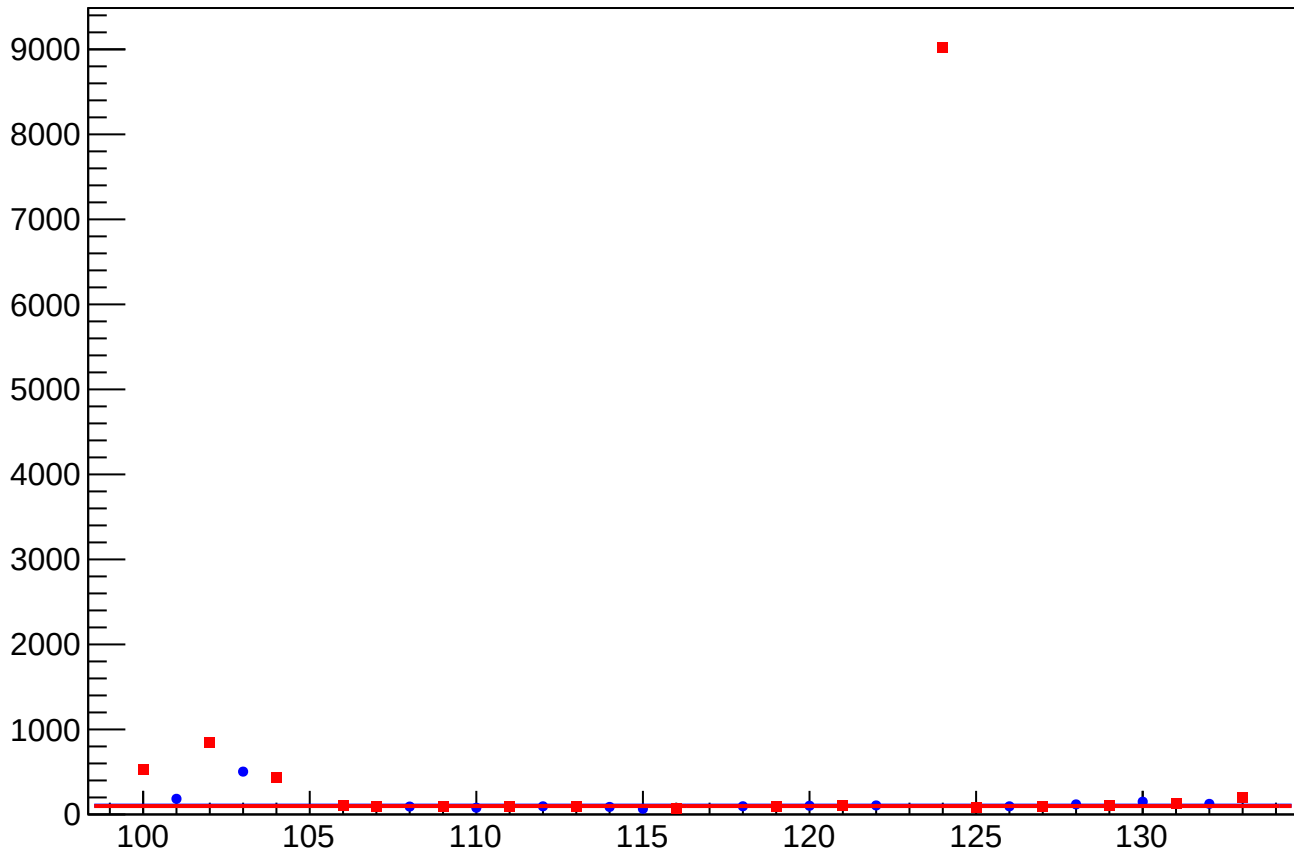
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.032  $\chi^2$ /NDF: 29.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 103.873+/-0.033  $\chi^2/\text{NDF}$ : 1277429.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 98.675+/-0.031  $\chi^2/\text{NDF}$ : 2093482.8/16

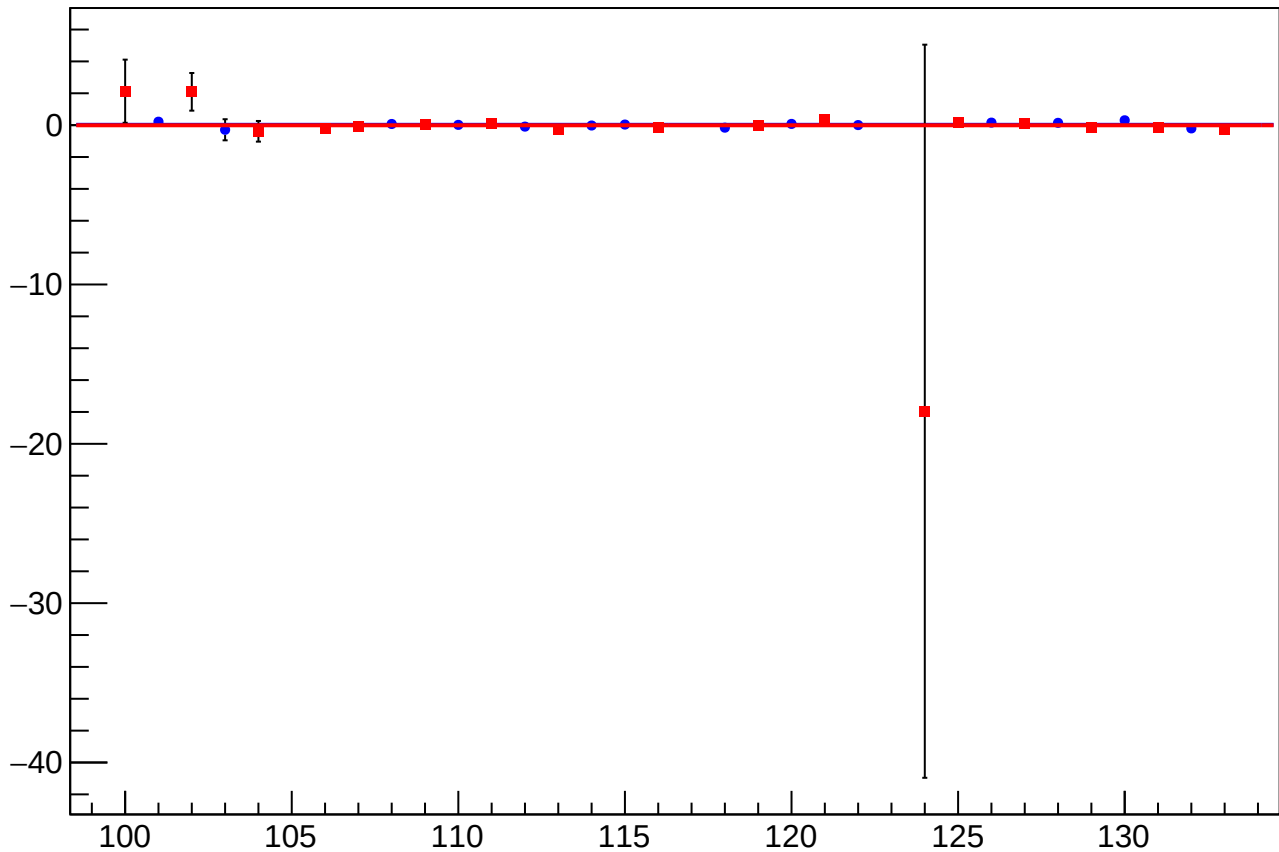
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 101.118+/-0.023  $\chi^2/\text{NDF}$ : 3384126.9/30

- 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: 0.020 $\pm$ 0.047  $\chi^2/\text{NDF}$ : 8.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.008 $\pm$ 0.044  $\chi^2/\text{NDF}$ : 21.5/16

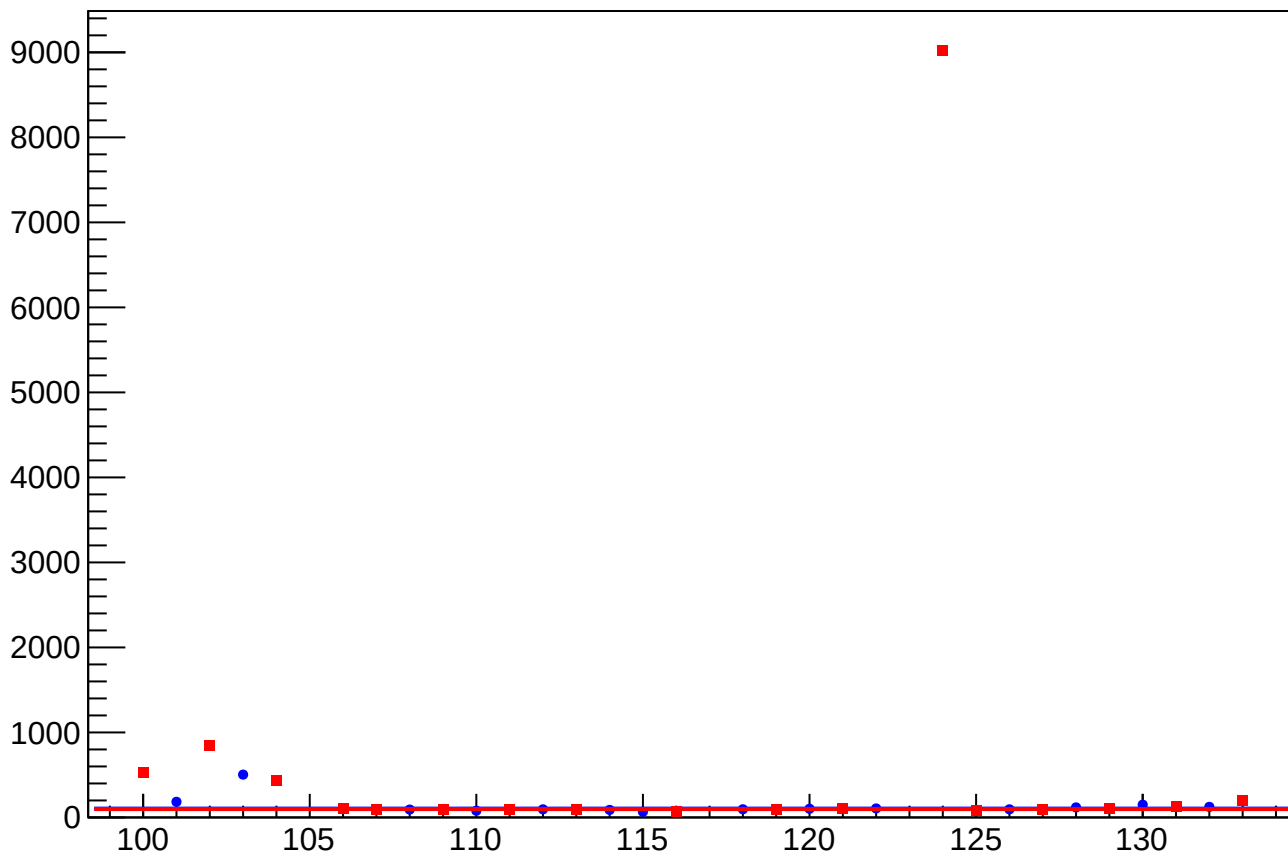
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 29.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 103.873+/-0.033  $\chi^2/\text{NDF}$ : 1277429.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 98.675+/-0.031  $\chi^2/\text{NDF}$ : 2093482.8/16

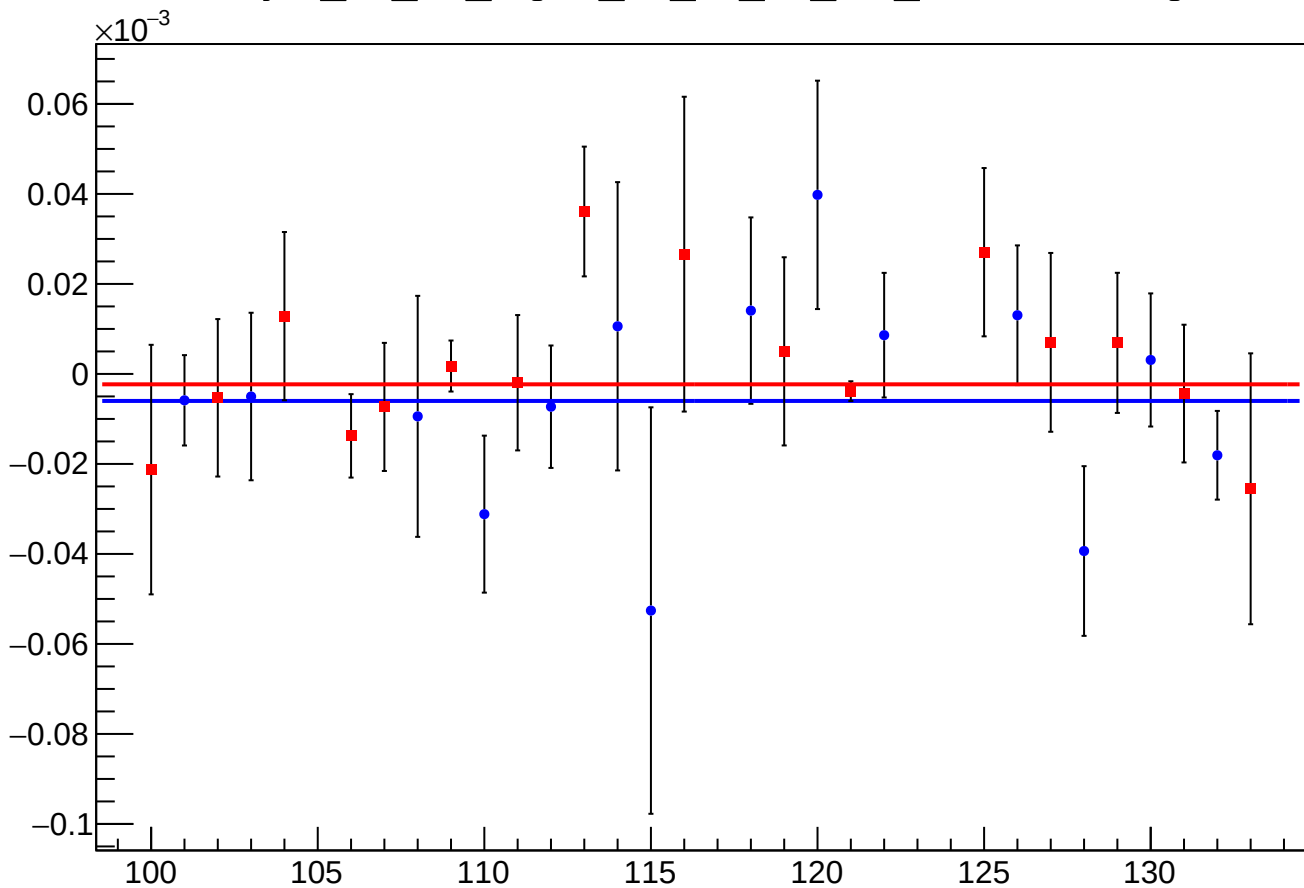
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 101.118+/-0.023  $\chi^2/\text{NDF}$ : 3384126.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 15.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 15.3/15

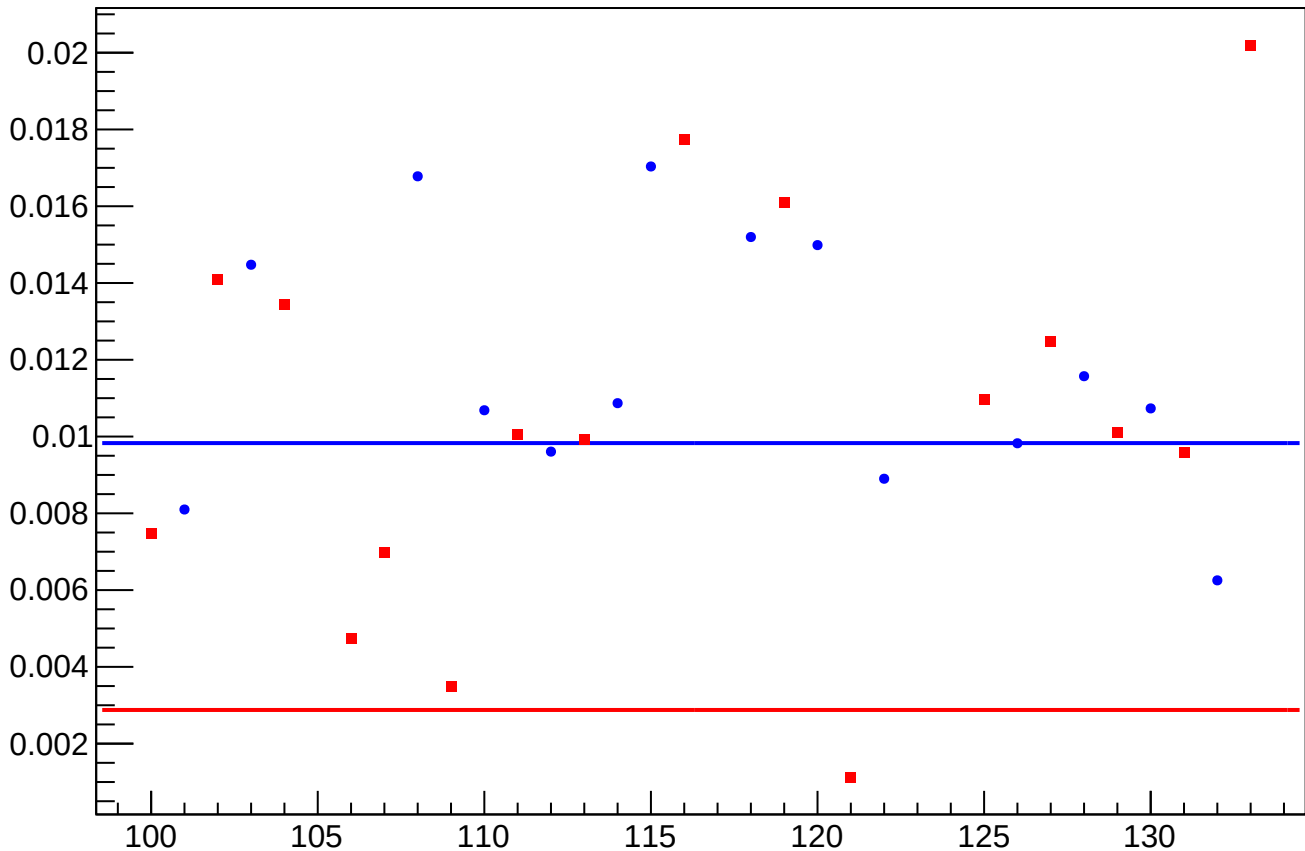
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 31.2/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 890811.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 7489866.2/15

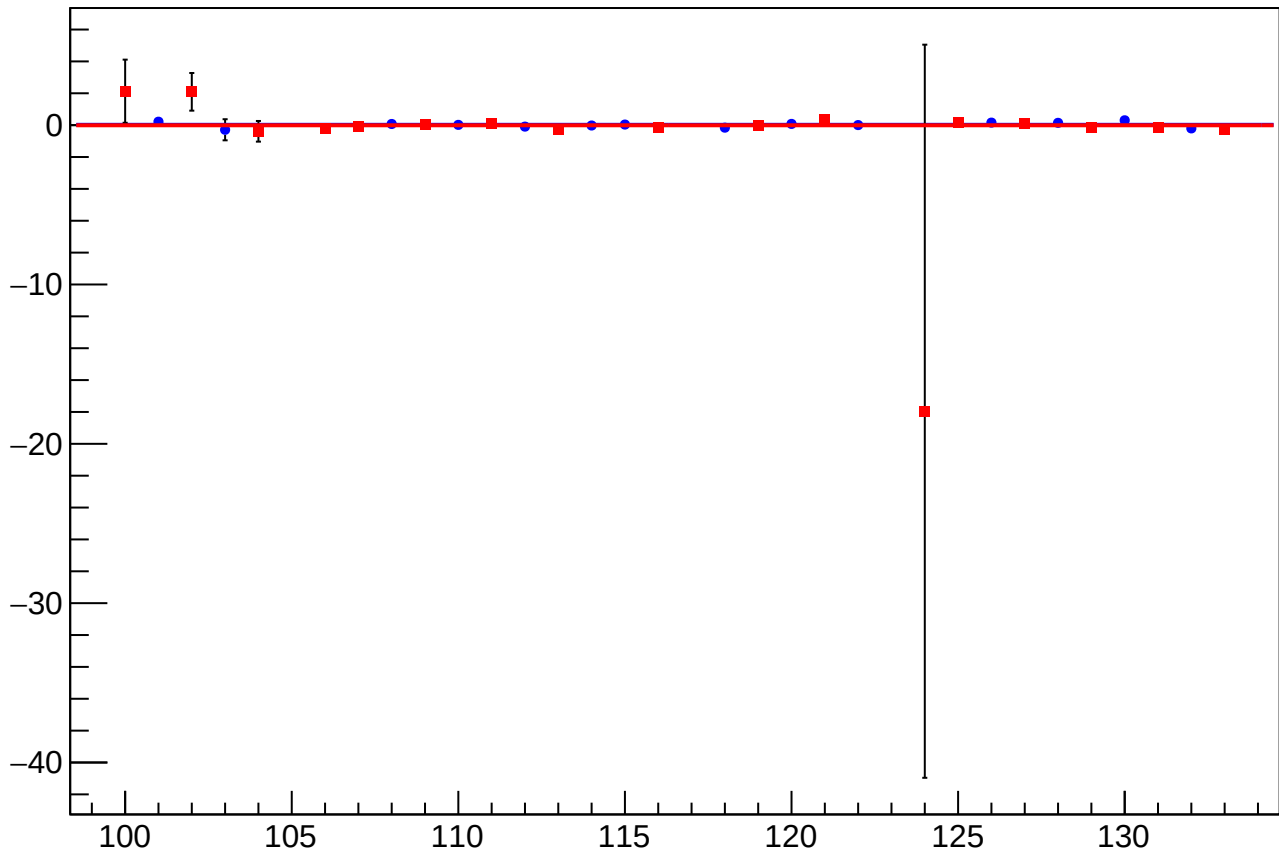
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 12869283.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.020+/-0.047  $\chi^2/\text{NDF}$ : 8.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.008+/-0.044  $\chi^2/\text{NDF}$ : 21.5/16

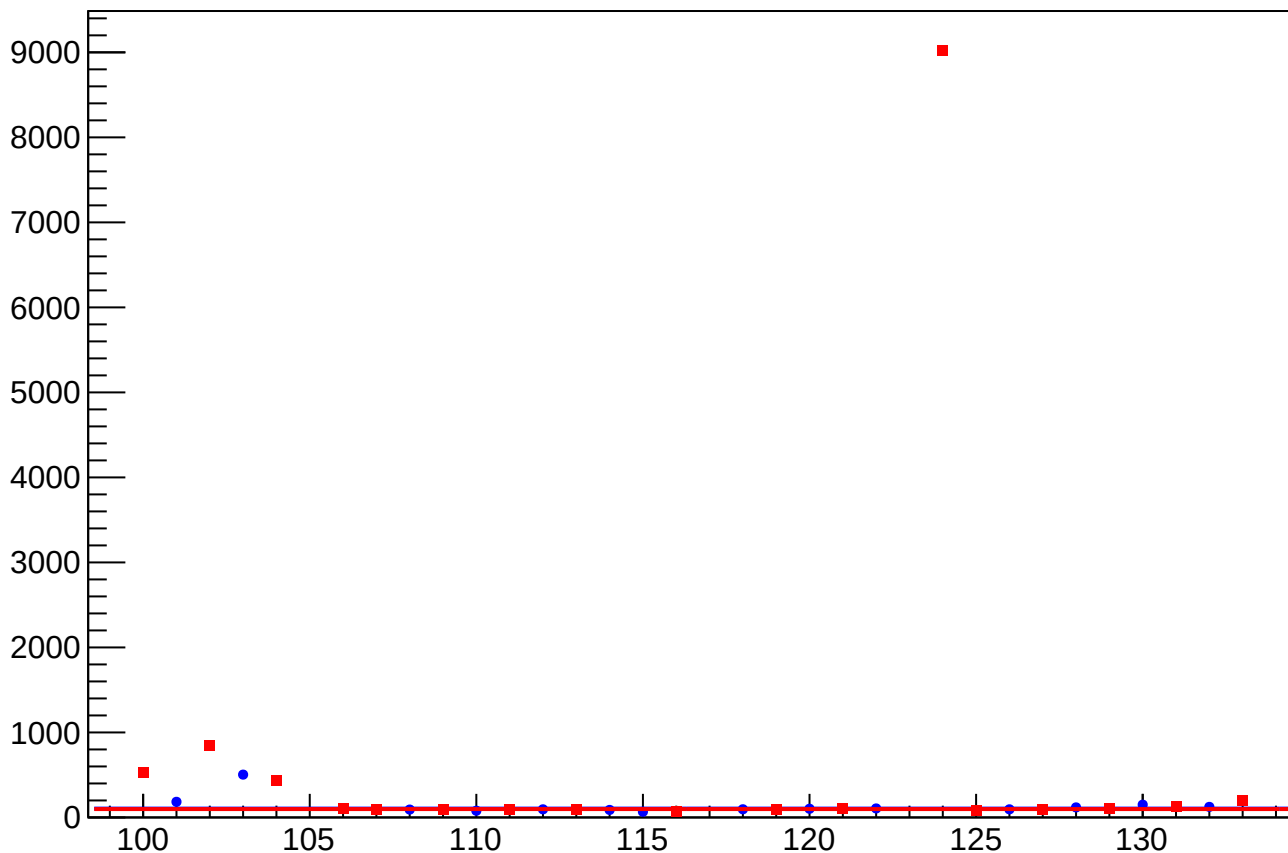
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.032  $\chi^2/\text{NDF}$ : 29.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 103.874+/-0.033  $\chi^2/\text{NDF}$ : 1277357.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 98.676+/-0.031  $\chi^2/\text{NDF}$ : 2093398.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

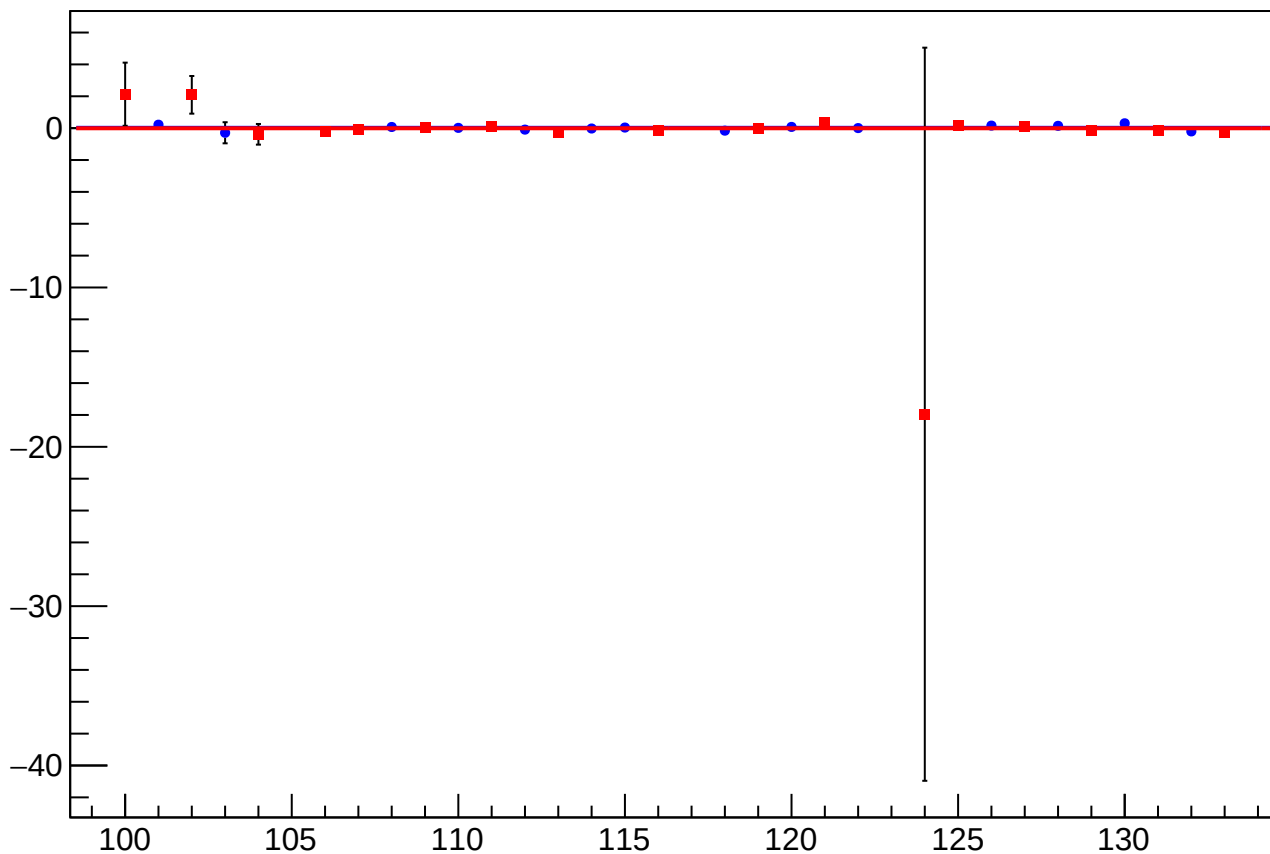
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 101.119+/-0.023  $\chi^2/\text{NDF}$ : 3383968.2/30

- 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: 0.020 $\pm$ 0.047  $\chi^2$ /NDF: 8.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.008 $\pm$ 0.044  $\chi^2$ /NDF: 21.5/16

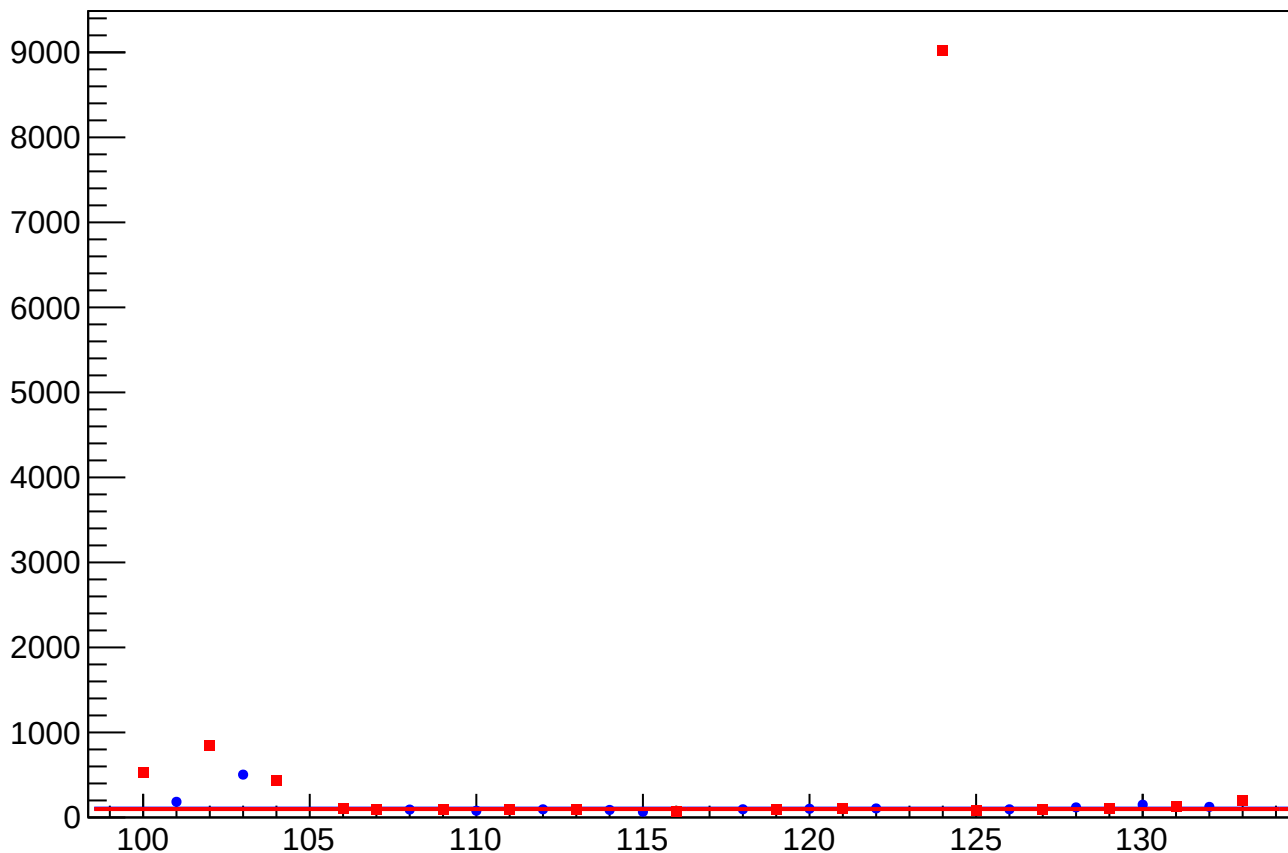
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

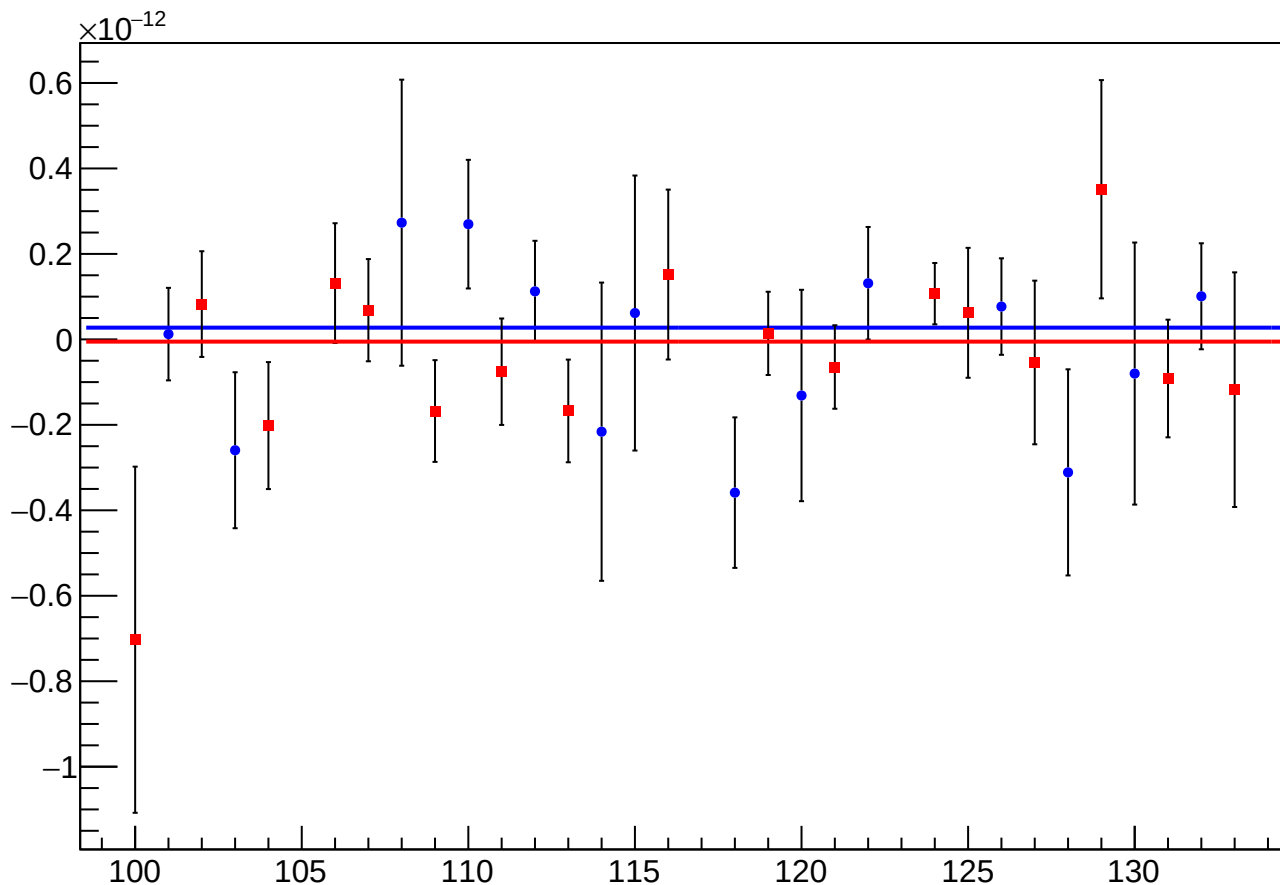
All: 0.005 $\pm$ 0.032  $\chi^2$ /NDF: 29.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



asym\_atl\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.8/16

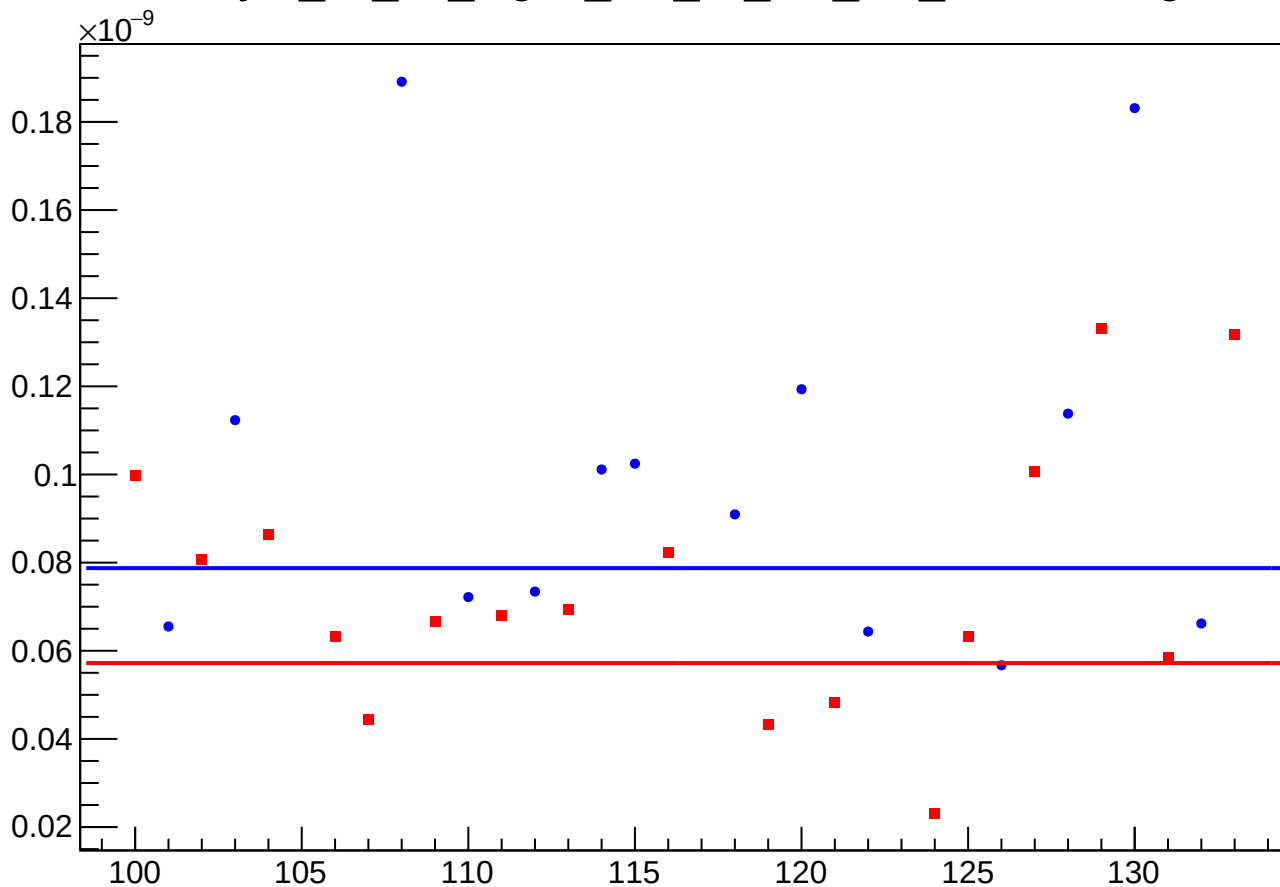
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 32.3/30

- 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: 799934.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1220508.7/16

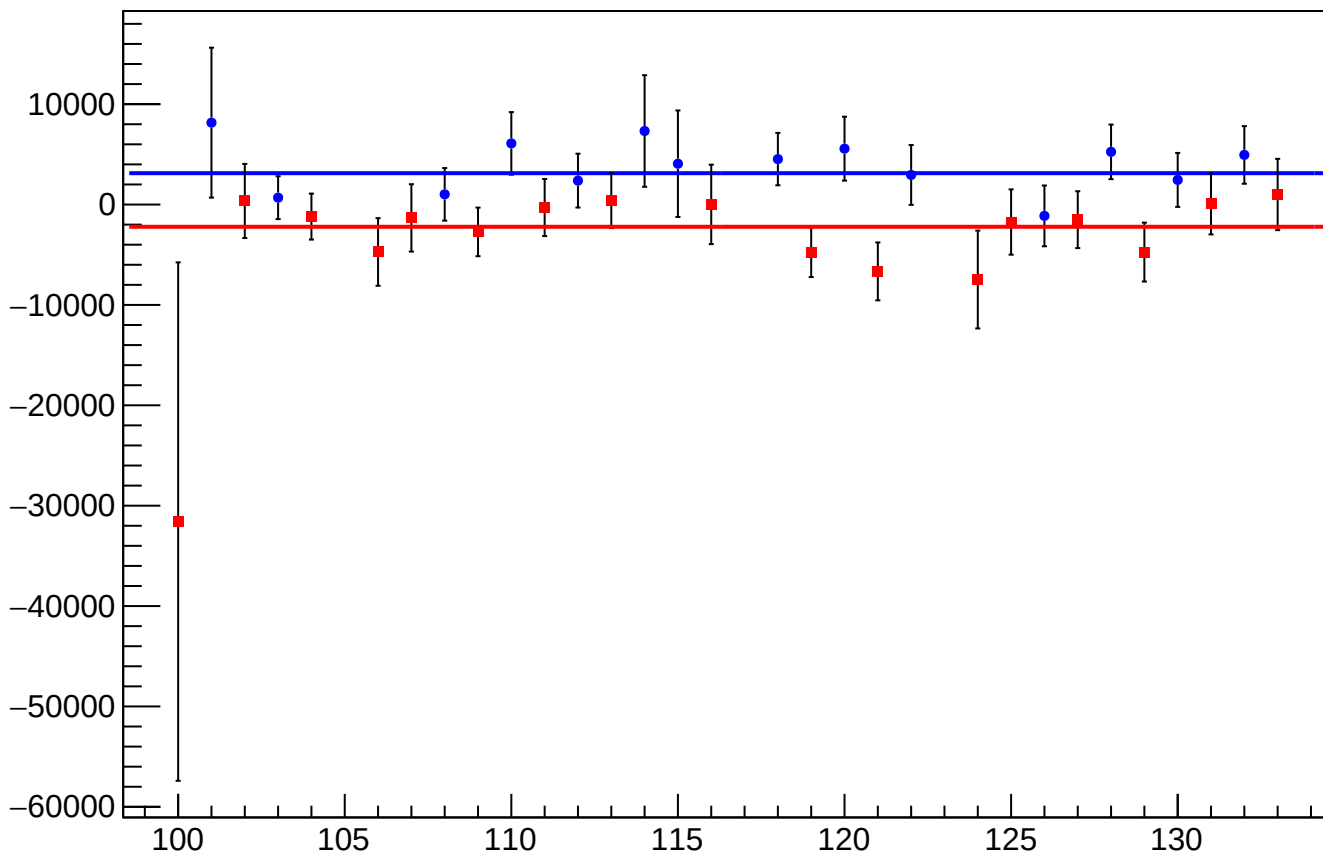
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2346457.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_avg\_mean vs Slug



Right In: 3123.036+/-801.773  $\chi^2/\text{NDF}$ : 7.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2213.877+/-748.588  $\chi^2/\text{NDF}$ : 11.1/16

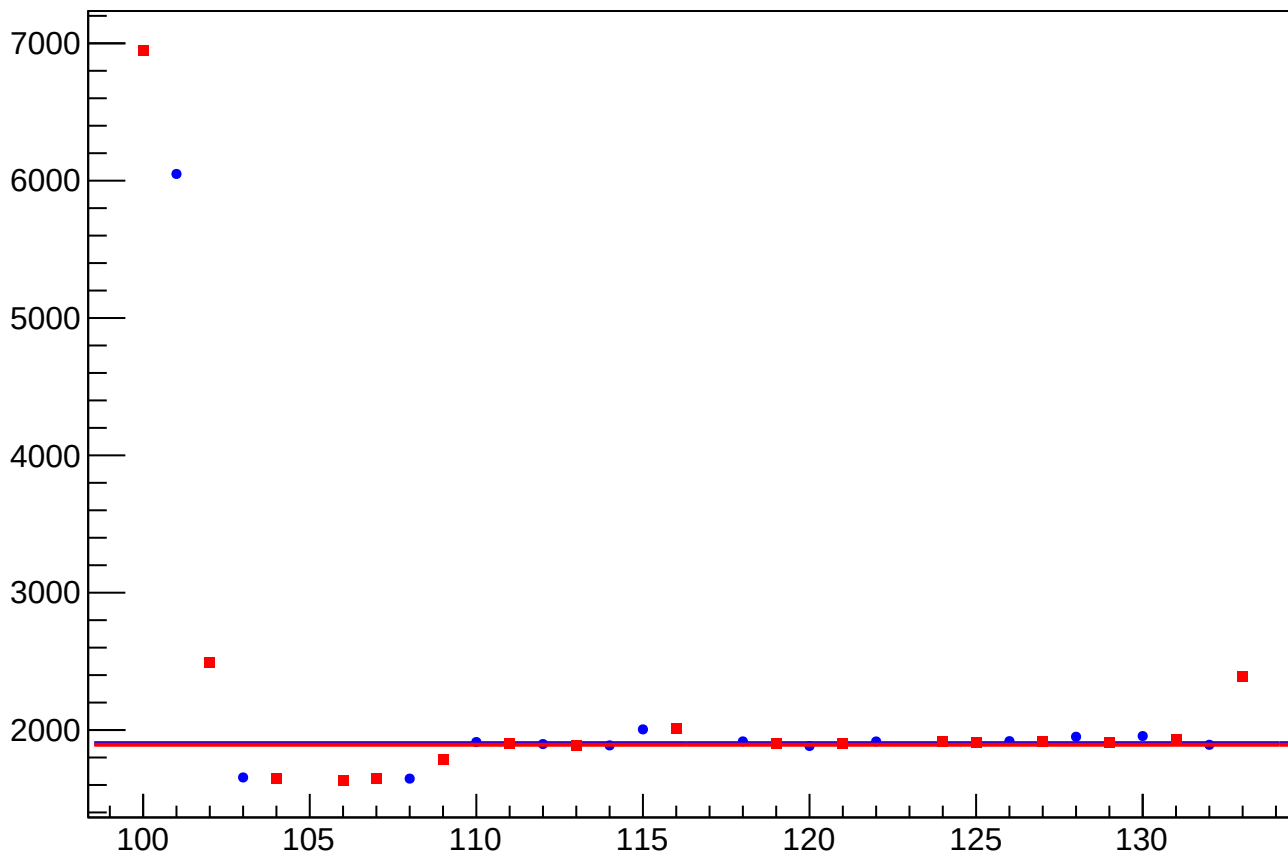
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 271.713+/-547.169  $\chi^2/\text{NDF}$ : 42.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_avg\_rms vs Slug



Right In: 1904.304+/-0.567  $\chi^2/\text{NDF}$ : 664980.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1893.007+/-0.527  $\chi^2/\text{NDF}$ : 221946.7/16

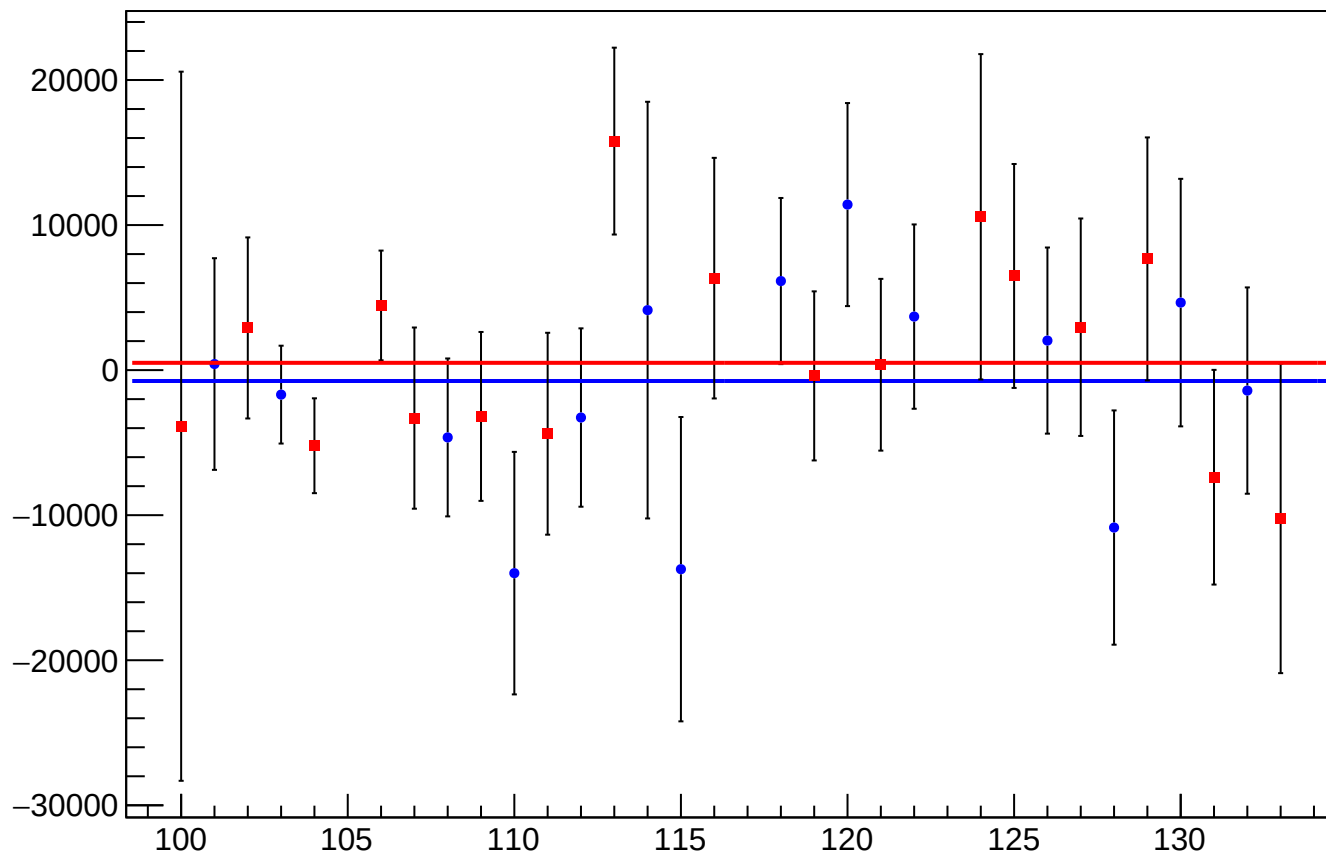
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1898.247+/-0.386  $\chi^2/\text{NDF}$ : 887140.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_reg\_correction\_mean vs Slug



Right In: -750.042 $\pm$ 1705.113  $\chi^2$ /NDF: 12.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 502.639 $\pm$ 1495.655  $\chi^2$ /NDF: 16.1/16

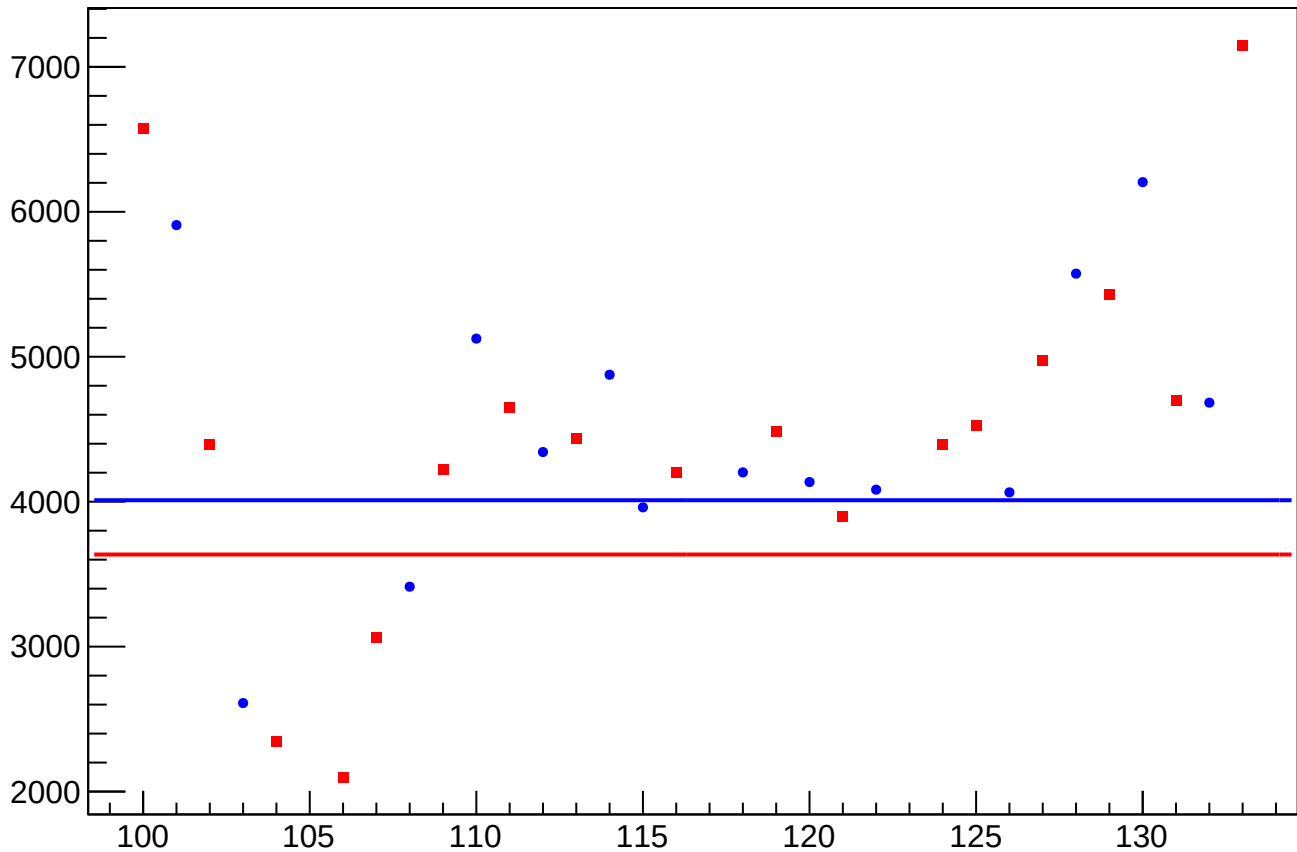
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -42.076 $\pm$ 1124.391  $\chi^2$ /NDF: 28.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_avg\_reg\_correction\_rms vs Slug



Right In: 4010.103+/-1.206  $\chi^2/\text{NDF}$ : 781037.7/13

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: 3635.560+/-1.058  $\chi^2/\text{NDF}$ : 1317614.5/16

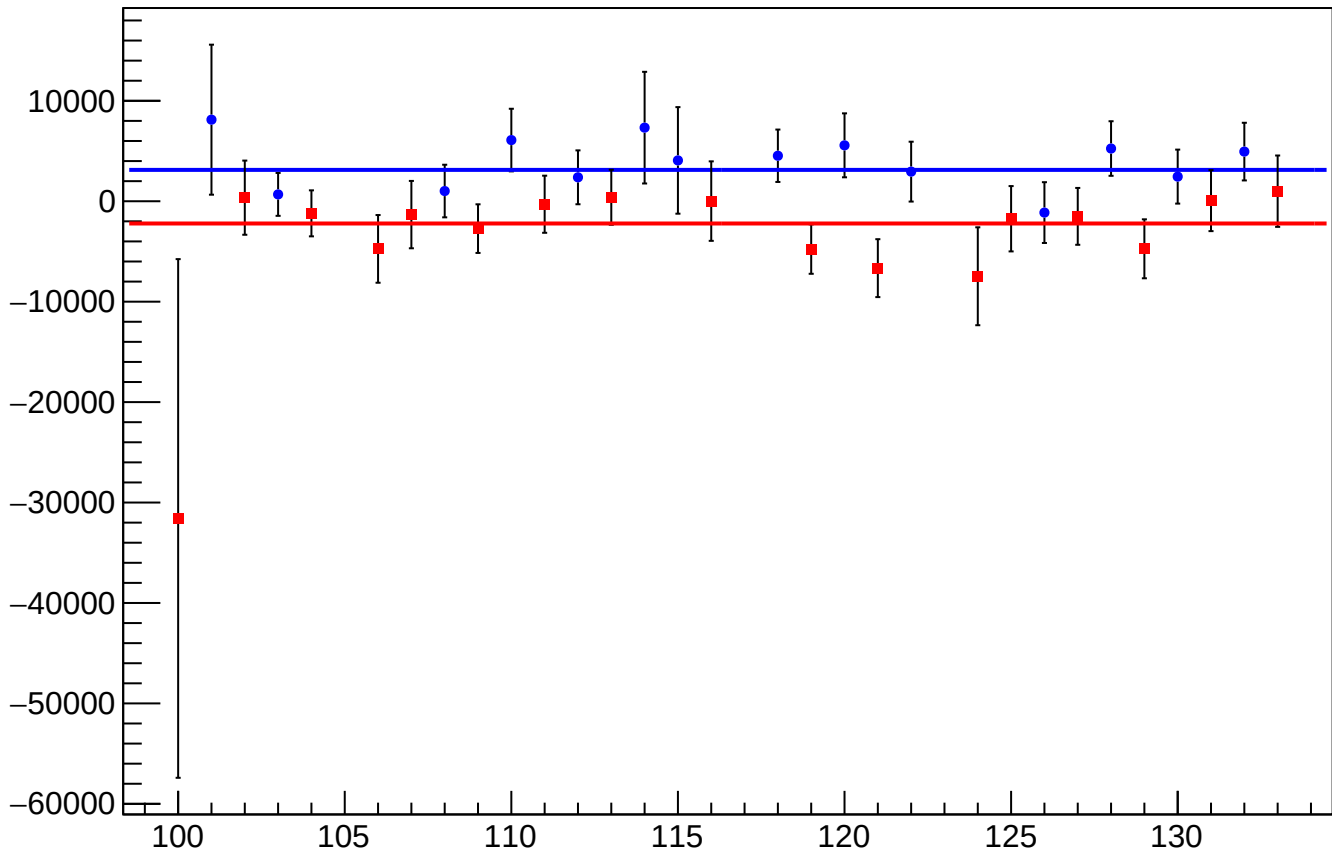
All: 3798.426+/-0.795  $\chi^2/\text{NDF}$ : 2153190.3/30

- 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\_avg\_mean vs Slug



Right In: 3122.149 $\pm$ 801.773  $\chi^2$ /NDF: 7.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2215.221 $\pm$ 748.593  $\chi^2$ /NDF: 11.1/16

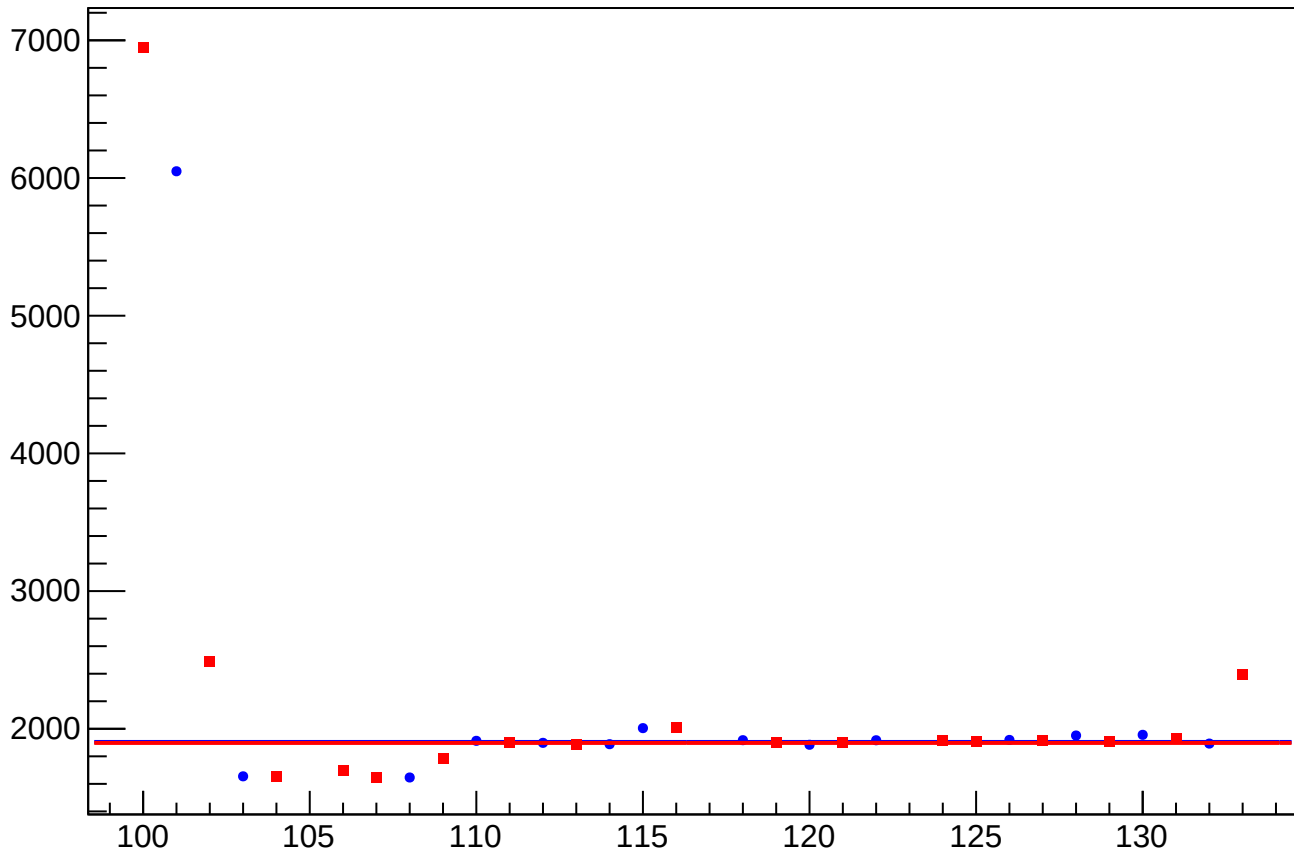
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 270.599 $\pm$ 547.171  $\chi^2$ /NDF: 42.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atr\_avg\_rms vs Slug



Right In: 1904.305+/-0.567  $\chi^2/\text{NDF}$ : 664979.6/13

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

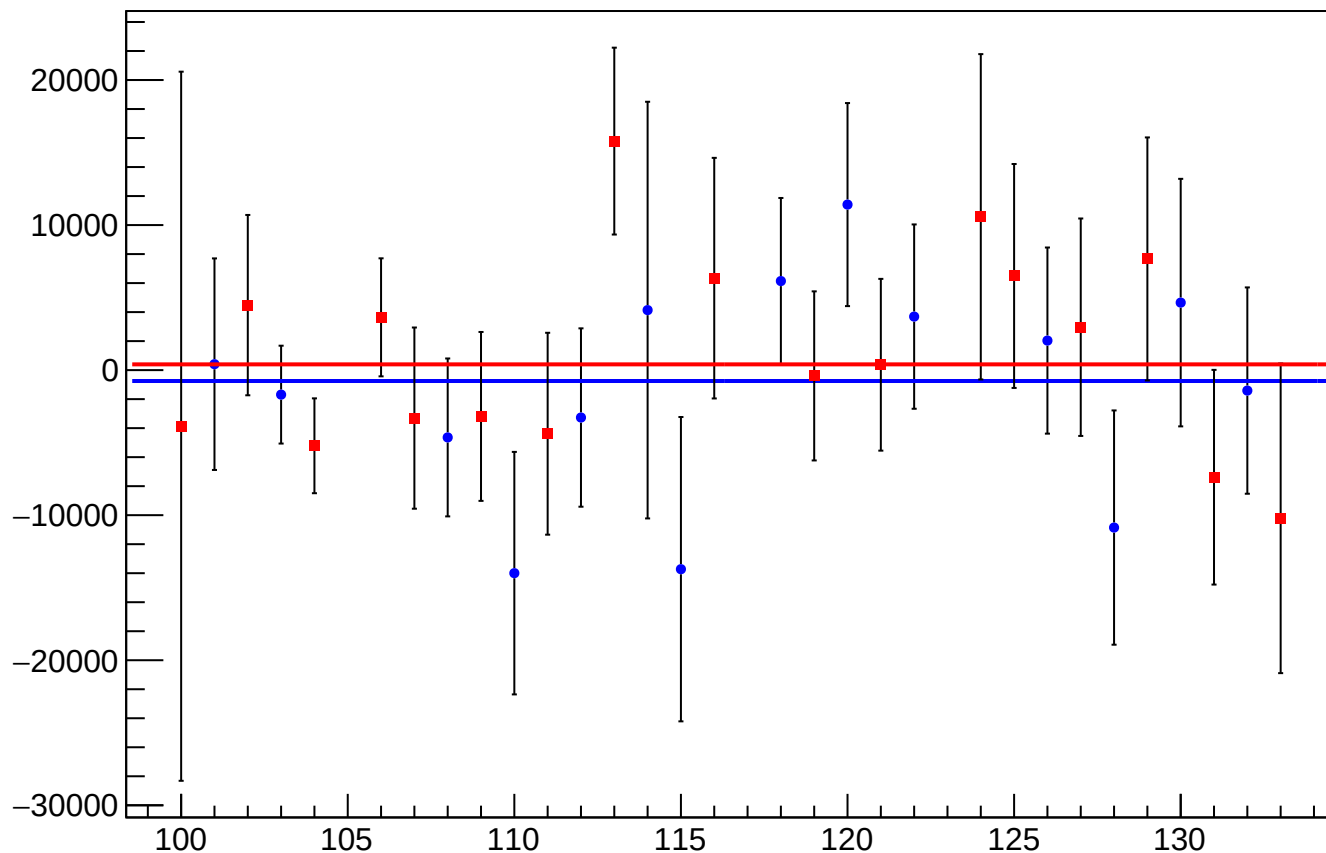
Right Out: 1897.433+/-0.528  $\chi^2/\text{NDF}$ : 215395.0/16

All: 1900.628+/-0.387  $\chi^2/\text{NDF}$ : 880453.2/30

- 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: -750.492 $\pm$ 1705.118  $\chi^2$ /NDF: 12.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 397.139 $\pm$ 1511.517  $\chi^2$ /NDF: 15.9/16

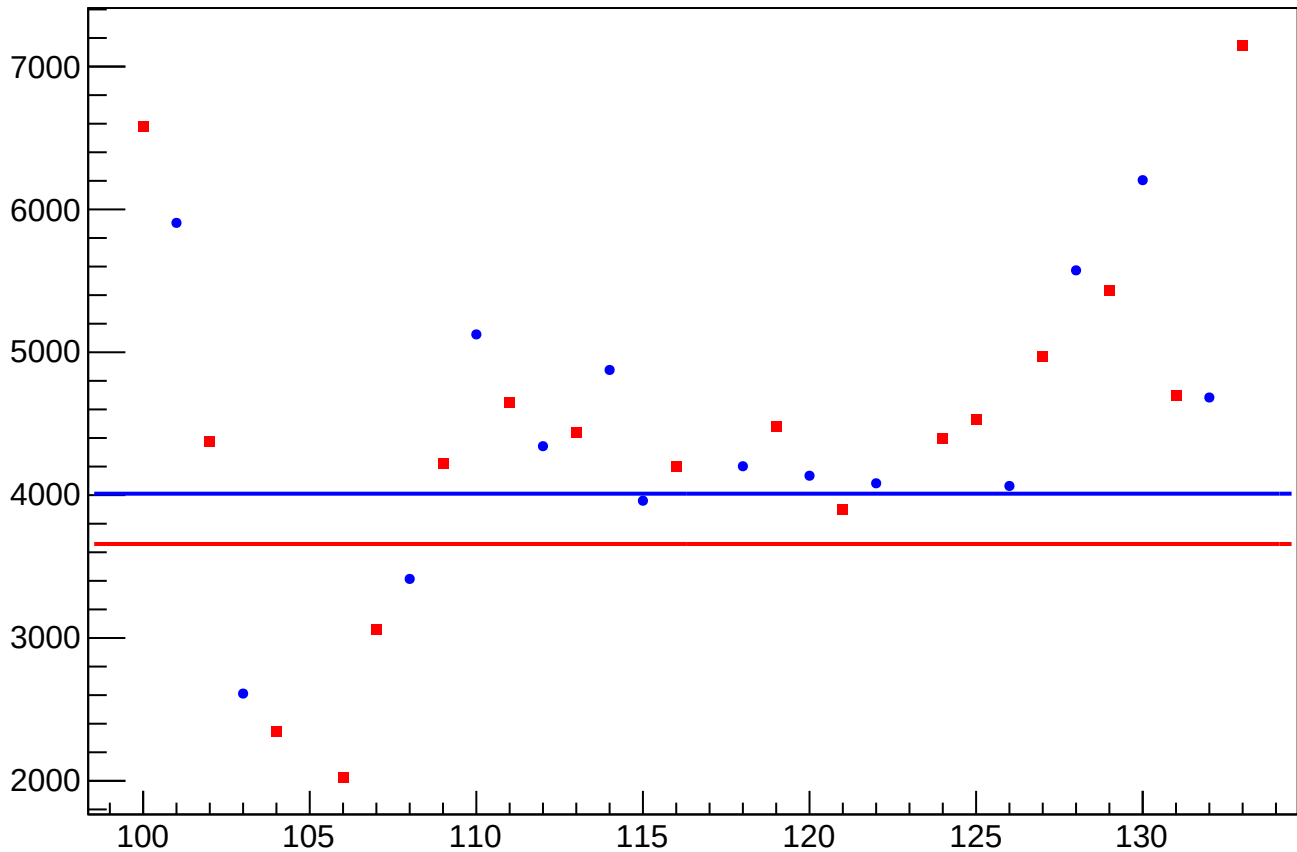
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -107.853 $\pm$ 1131.086  $\chi^2$ /NDF: 28.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_avg\_cor\_correction\_rms vs Slug



Right In: 4010.214+/-1.206  $\chi^2/\text{NDF}$ : 780554.0/13

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

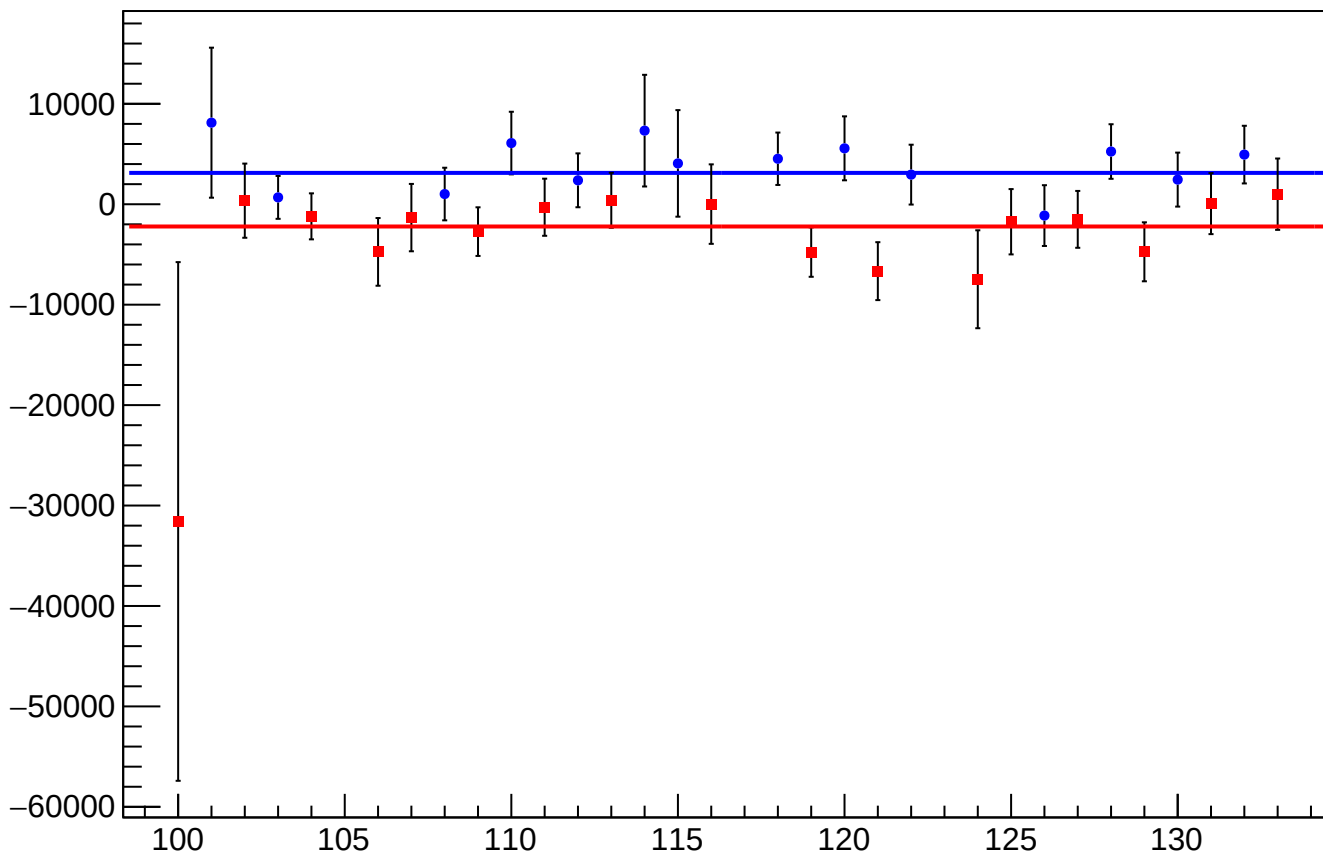
Right Out: 3658.115+/-1.069  $\chi^2/\text{NDF}$ : 1298422.7/16

All: 3813.049+/-0.800  $\chi^2/\text{NDF}$ : 2126731.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr\_avg\_mean vs Slug



Right In: 3122.149+/-801.773  $\chi^2/\text{NDF}$ : 7.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2215.221+/-748.593  $\chi^2/\text{NDF}$ : 11.1/16

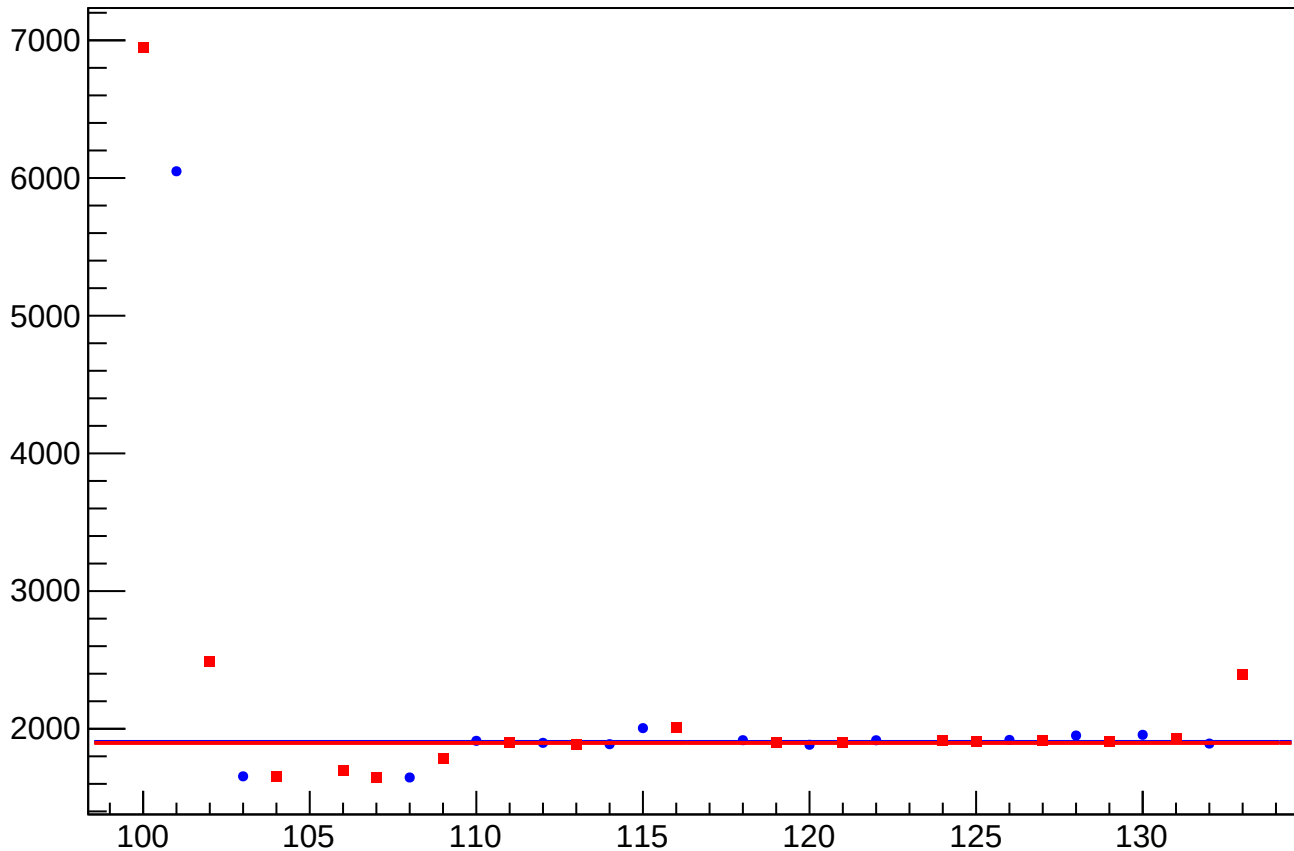
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 270.599+/-547.171  $\chi^2/\text{NDF}$ : 42.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr\_avg\_rms vs Slug



Right In: 1904.305+/-0.567  $\chi^2/\text{NDF}$ : 664979.6/13

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

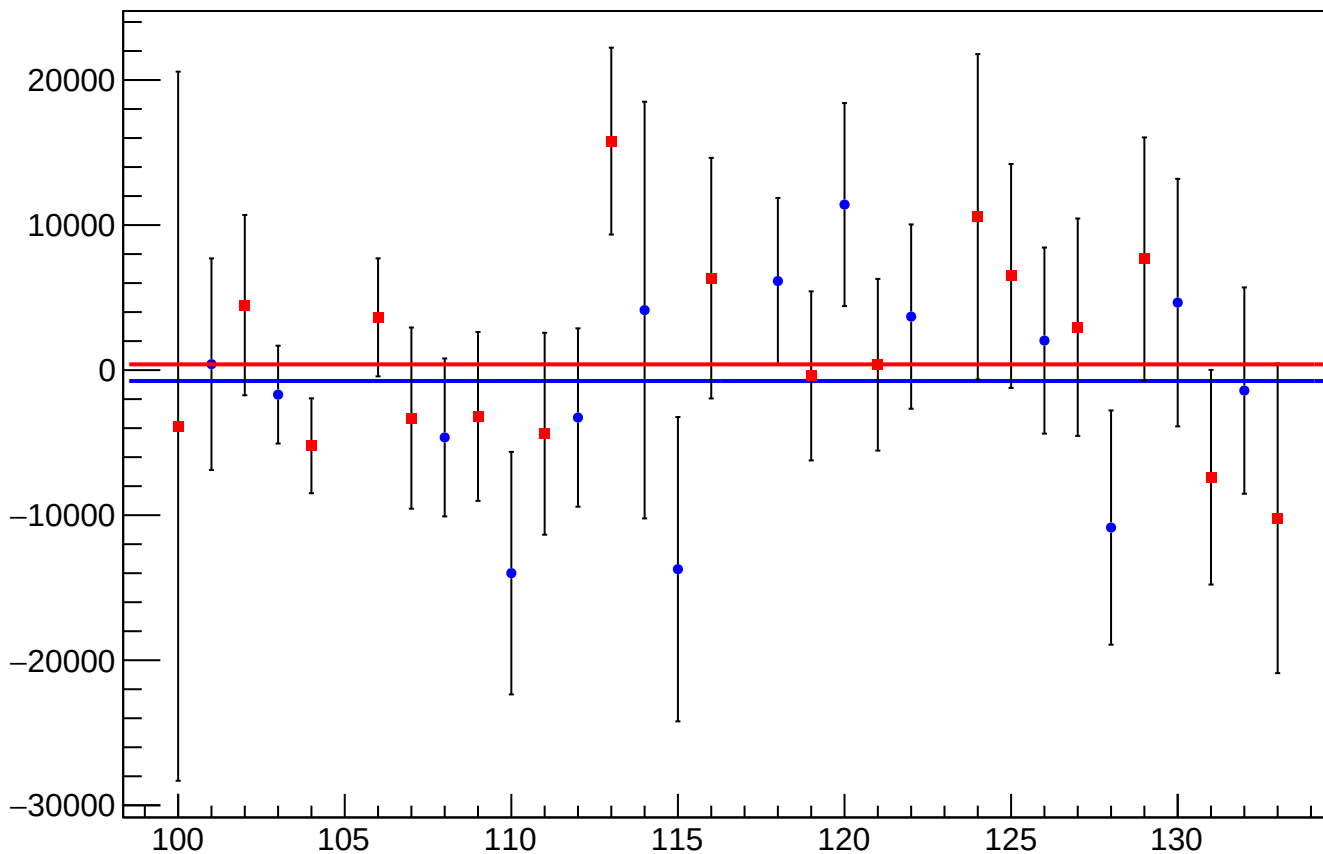
Right Out: 1897.433+/-0.528  $\chi^2/\text{NDF}$ : 215395.0/16

All: 1900.628+/-0.387  $\chi^2/\text{NDF}$ : 880453.2/30

- 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\_eigen\_cor\_correction\_mean vs Slug



Right In: -750.492+/-1705.118  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 397.139+/-1511.517  $\chi^2/\text{NDF}$ : 15.9/16

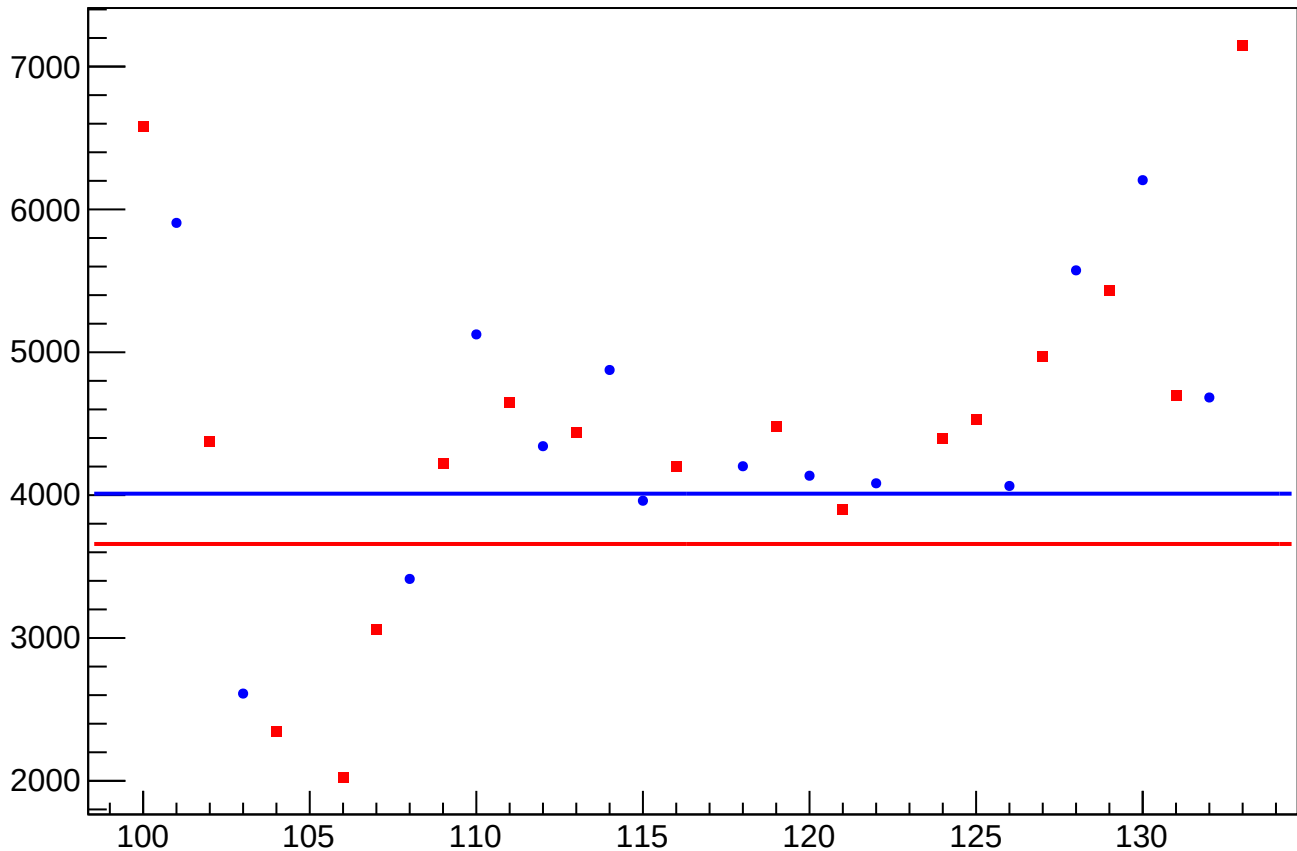
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -107.853+/-1131.086  $\chi^2/\text{NDF}$ : 28.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 4010.214+/-1.206  $\chi^2/\text{NDF}$ : 780554.0/13

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: 3658.115+/-1.069  $\chi^2/\text{NDF}$ : 1298422.7/16

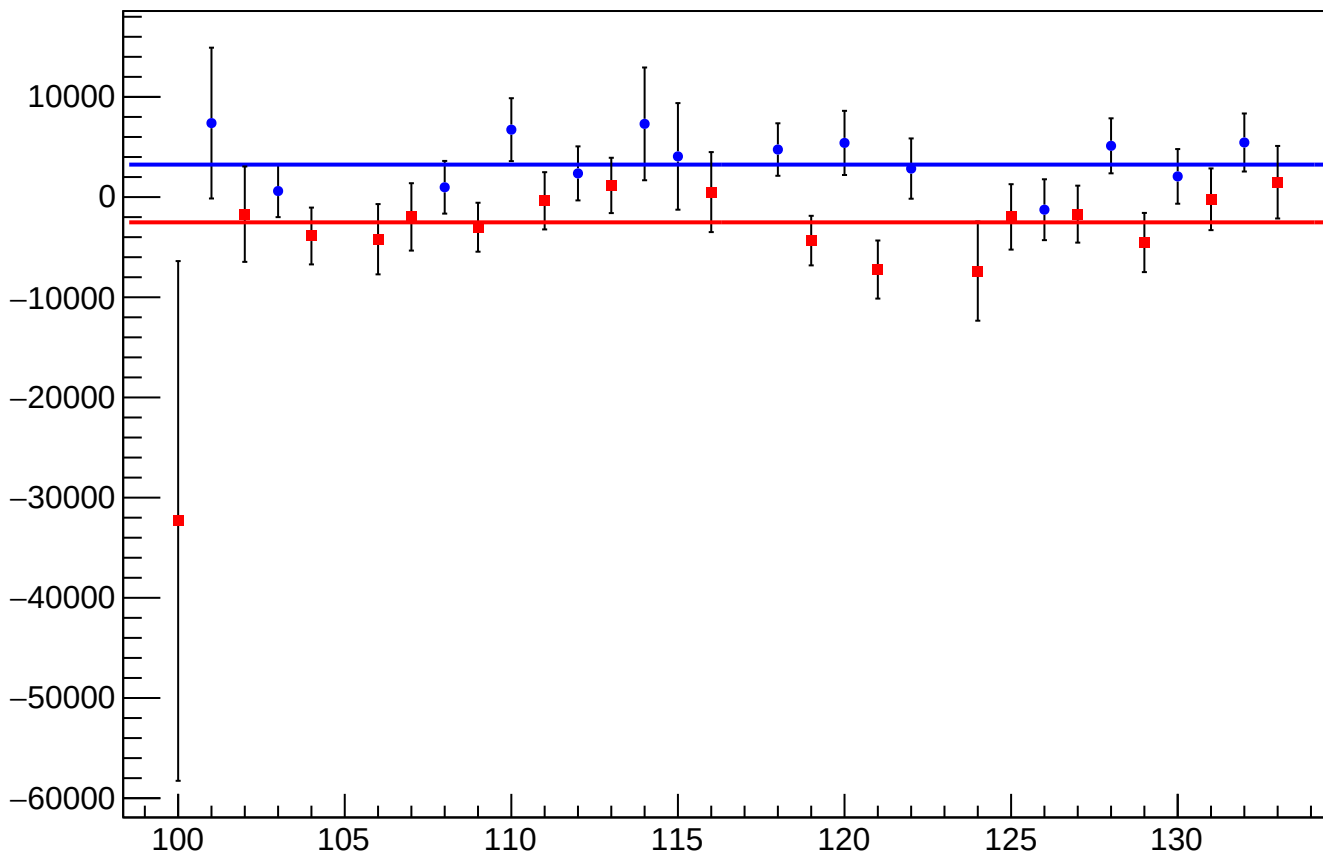
All: 3813.049+/-0.800  $\chi^2/\text{NDF}$ : 2126731.3/30

- 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\_atr\_avg\_mean vs Slug



Right In: 3242.533+/-826.701  $\chi^2$ /NDF: 8.2/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2520.173+/-776.017  $\chi^2$ /NDF: 11.3/16

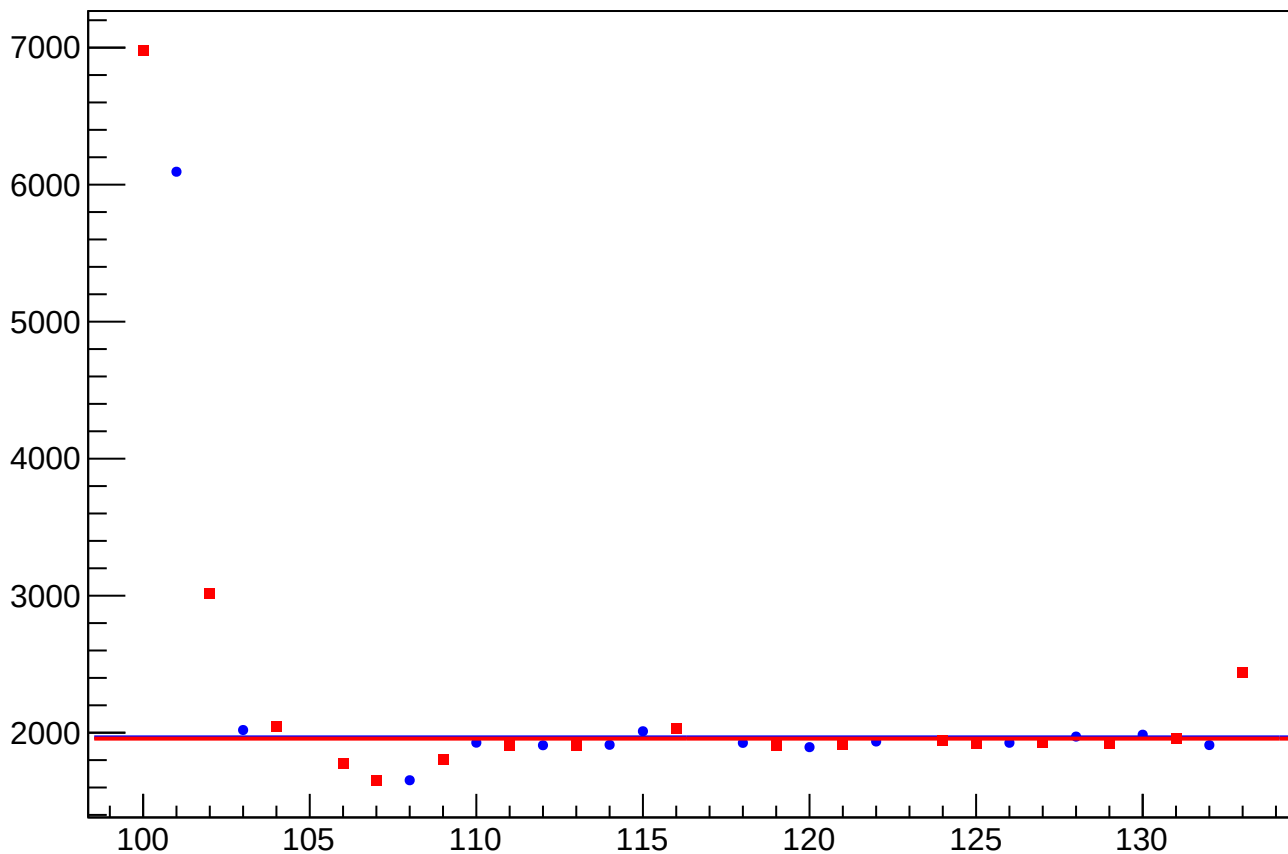
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 179.123+/-565.797  $\chi^2$ /NDF: 45.3/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atr\_avg\_rms vs Slug



Right In: 1965.877+/-0.585  $\chi^2/\text{NDF}$ : 635136.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1956.883+/-0.548  $\chi^2/\text{NDF}$ : 245816.8/16

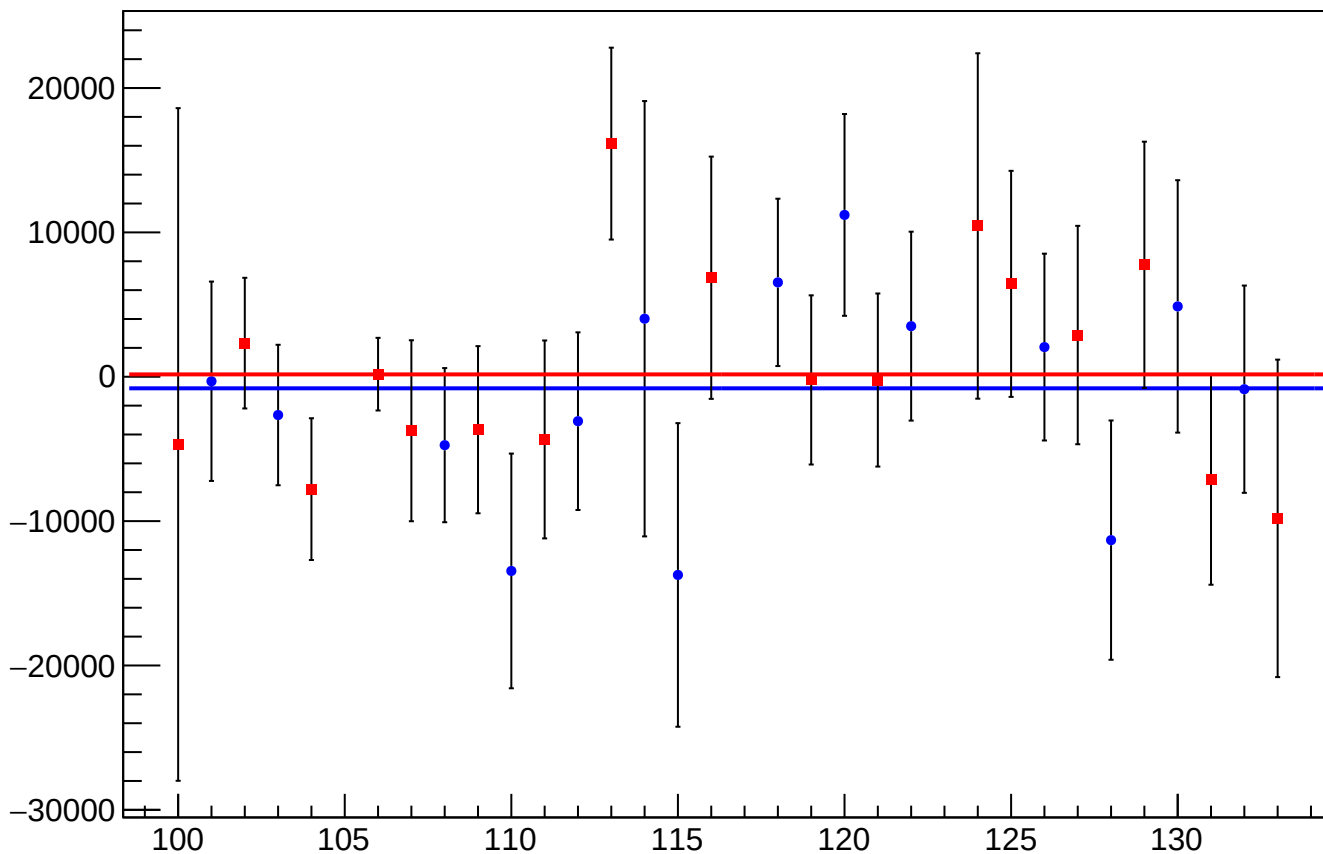
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1961.091+/-0.400  $\chi^2/\text{NDF}$ : 881078.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_dit\_correction\_mean vs Slug



Right In: -801.464+/-1832.418  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 163.938+/-1411.129  $\chi^2/\text{NDF}$ : 14.7/16

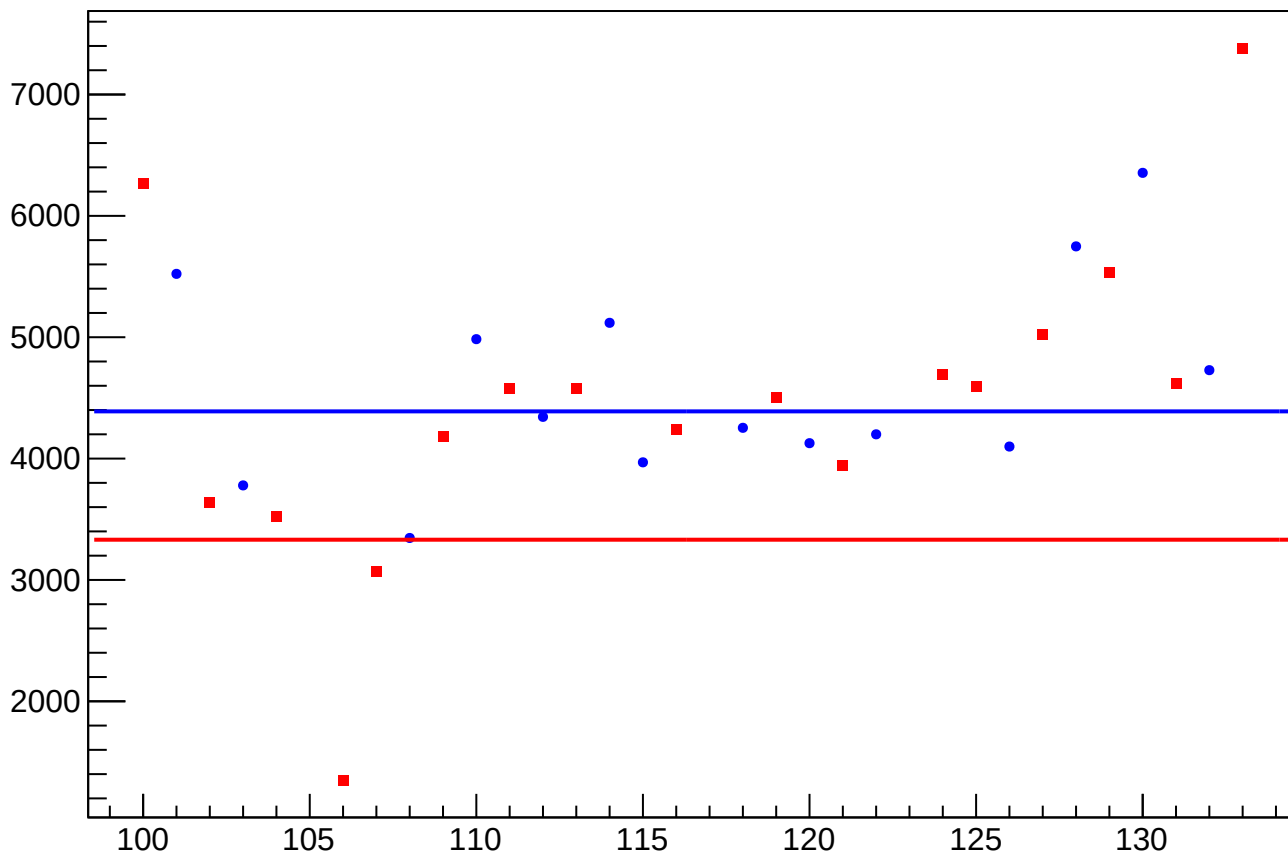
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -195.452+/-1118.030  $\chi^2/\text{NDF}$ : 27.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_dit\_correction\_rms vs Slug



Right In: 4389.035+/-1.296  $\chi^2/\text{NDF}$ : 349332.9/13

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

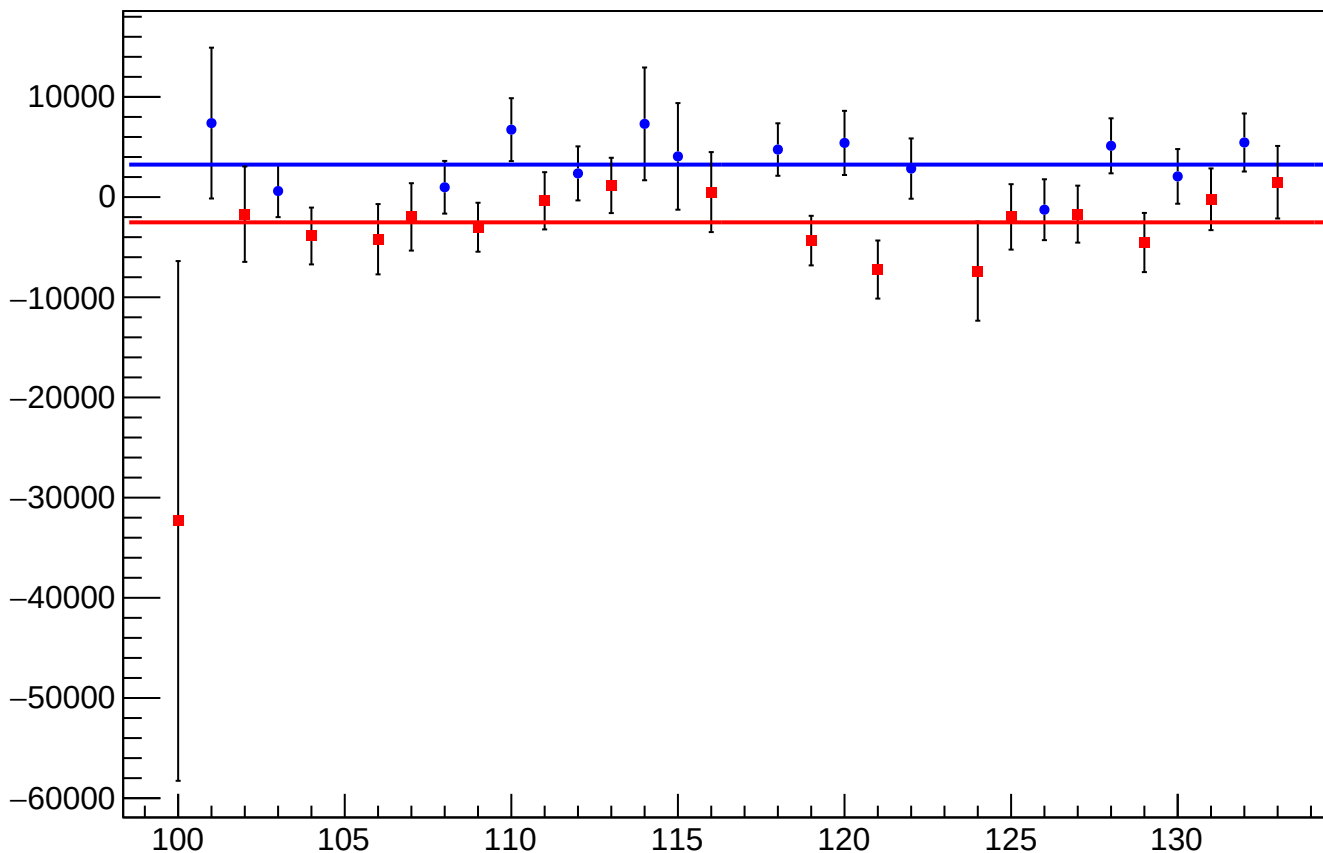
Right Out: 3331.529+/-0.998  $\chi^2/\text{NDF}$ : 2239259.2/16

All: 3725.206+/-0.791  $\chi^2/\text{NDF}$ : 3006730.5/30

- 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\_atr\_avg\_mean vs Slug



Right In: 3242.532 $\pm$ 826.701  $\chi^2$ /NDF: 8.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2520.178 $\pm$ 776.017  $\chi^2$ /NDF: 11.3/16

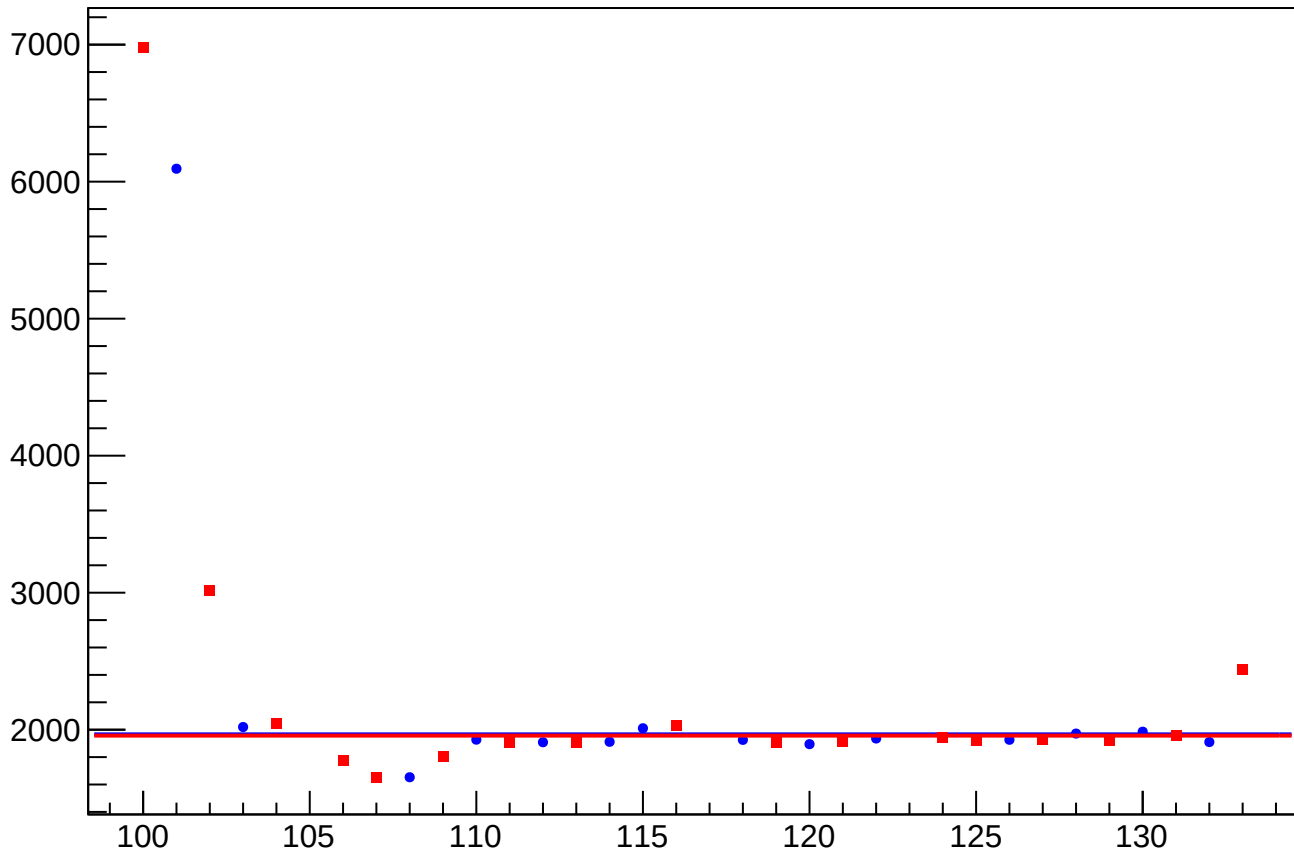
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 179.120 $\pm$ 565.797  $\chi^2$ /NDF: 45.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atr\_avg\_rms vs Slug



Right In: 1965.876 $\pm$ 0.585  $\chi^2$ /NDF: 635136.0/13

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

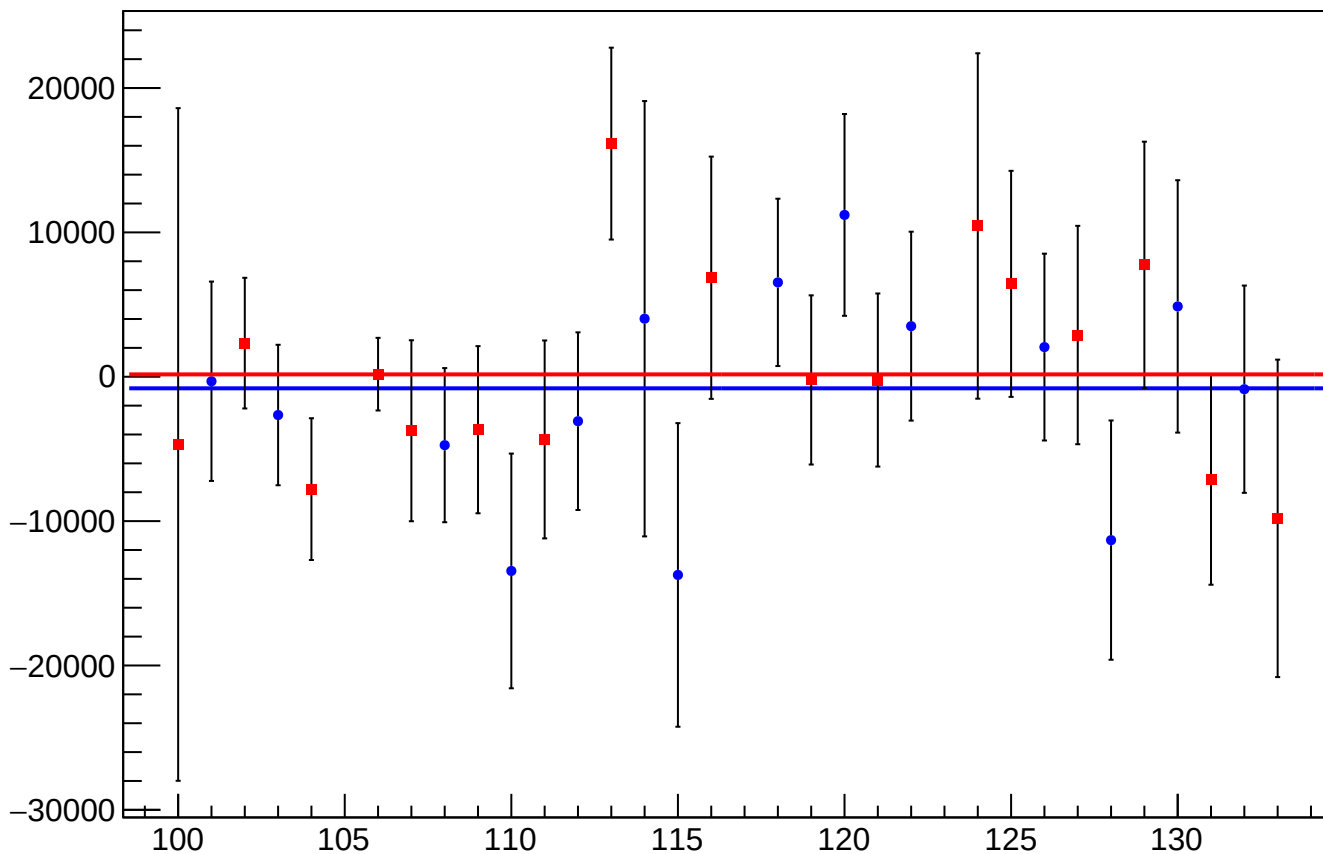
Right Out: 1956.883 $\pm$ 0.548  $\chi^2$ /NDF: 245816.4/16

All: 1961.091 $\pm$ 0.400  $\chi^2$ /NDF: 881078.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -801.455+/-1832.414  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 163.940+/-1411.126  $\chi^2/\text{NDF}$ : 14.7/16

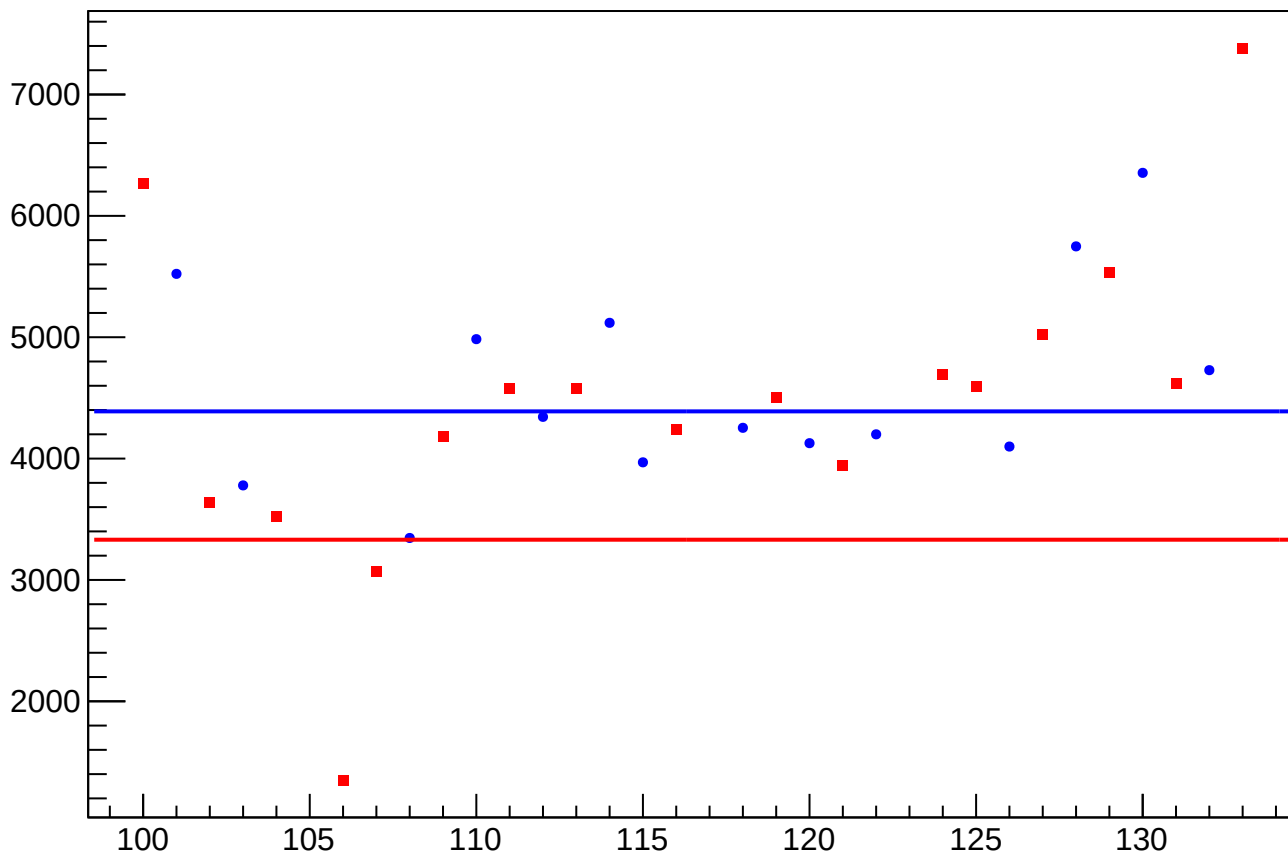
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -195.447+/-1118.027  $\chi^2/\text{NDF}$ : 27.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 4389.025+/-1.296  $\chi^2/\text{NDF}$ : 349329.2/13

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: 3331.520+/-0.998  $\chi^2/\text{NDF}$ : 2239260.2/16

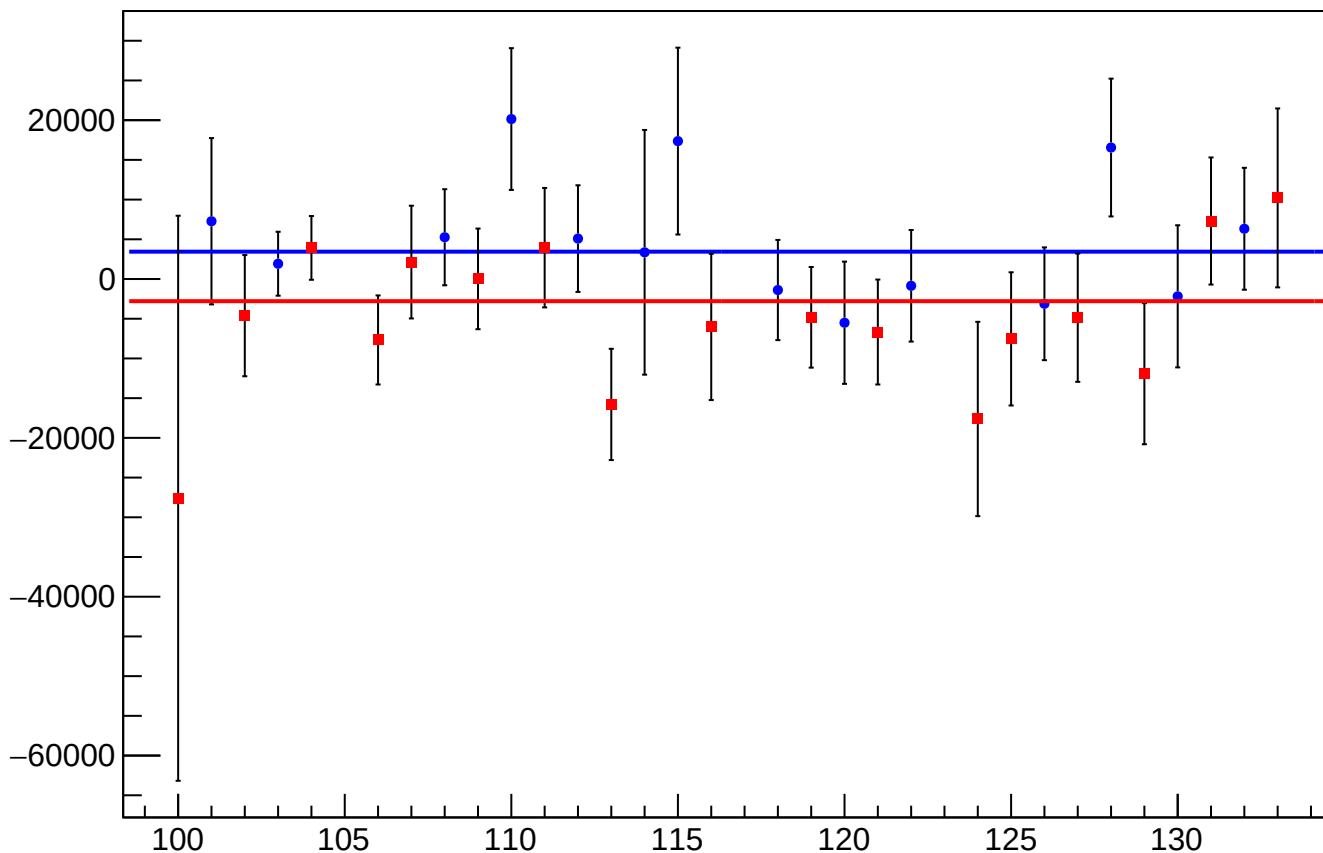
All: 3725.197+/-0.791  $\chi^2/\text{NDF}$ : 3006728.9/30

- 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: 3444.723+/-1927.210  $\chi^2/\text{NDF}$ : 11.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2789.706+/-1749.372  $\chi^2/\text{NDF}$ : 15.4/16

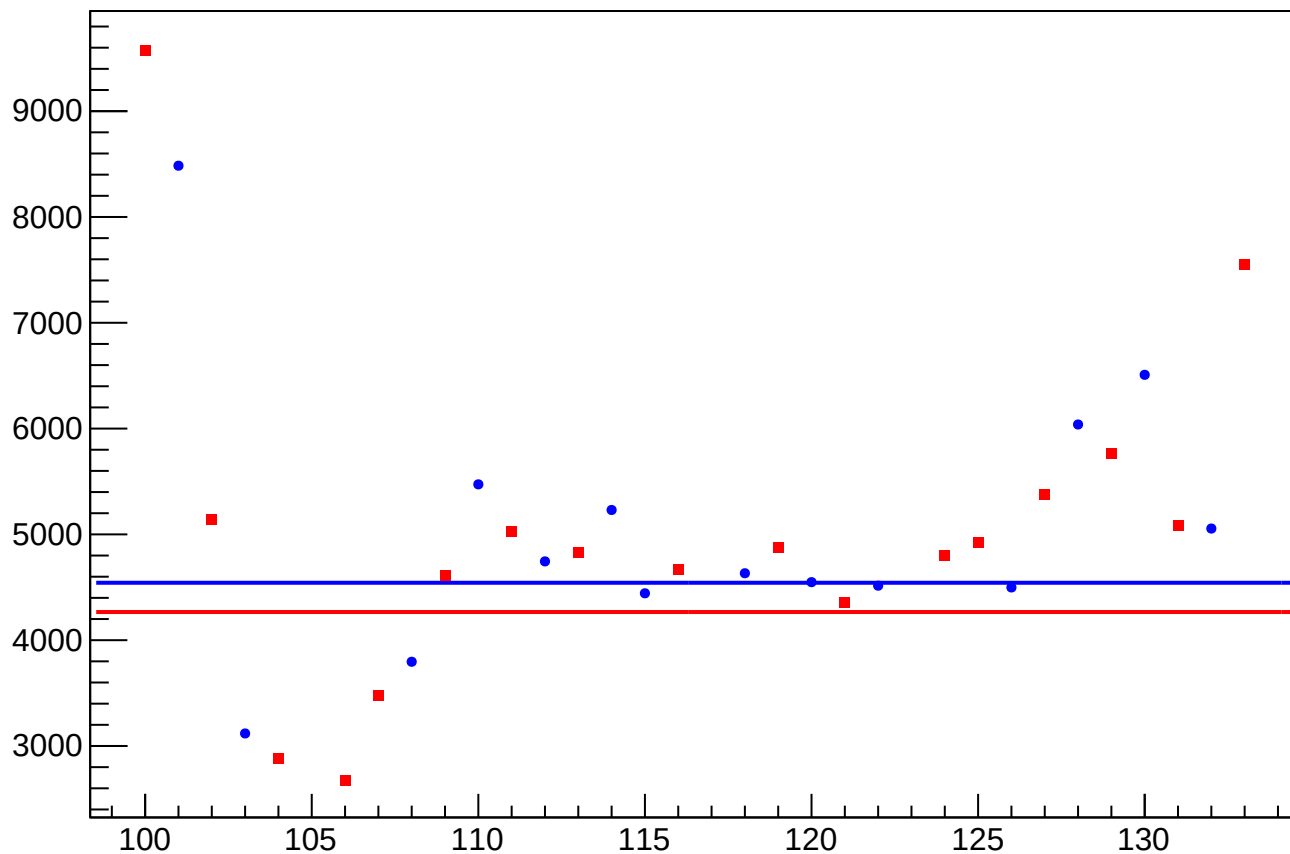
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 26.651+/-1295.312  $\chi^2/\text{NDF}$ : 32.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_rms vs Slug



Right In: 4542.809+/-1.363  $\chi^2/\text{NDF}$ : 757388.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4266.197+/-1.225  $\chi^2/\text{NDF}$ : 888862.2/16

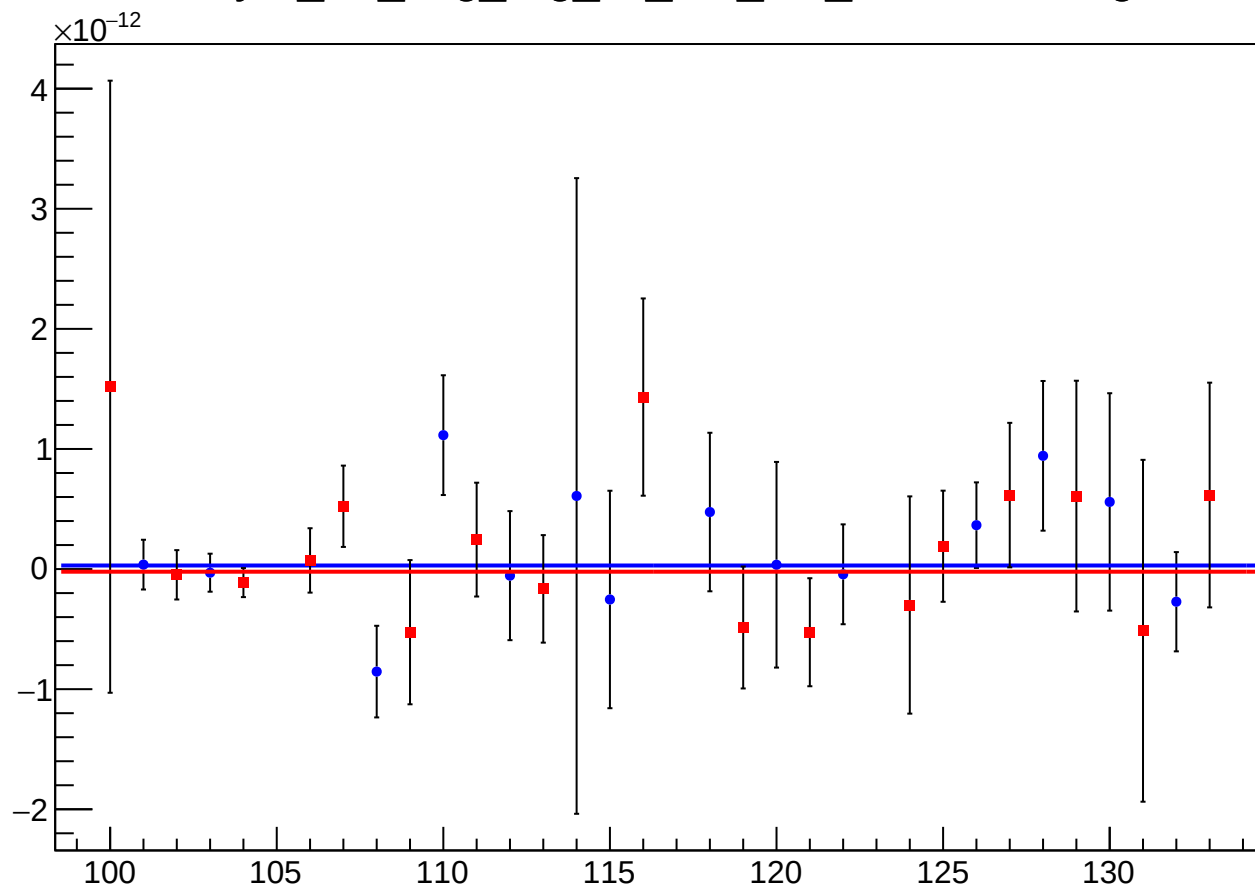
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4389.853+/-0.911  $\chi^2/\text{NDF}$ : 1669033.6/30

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.5/16

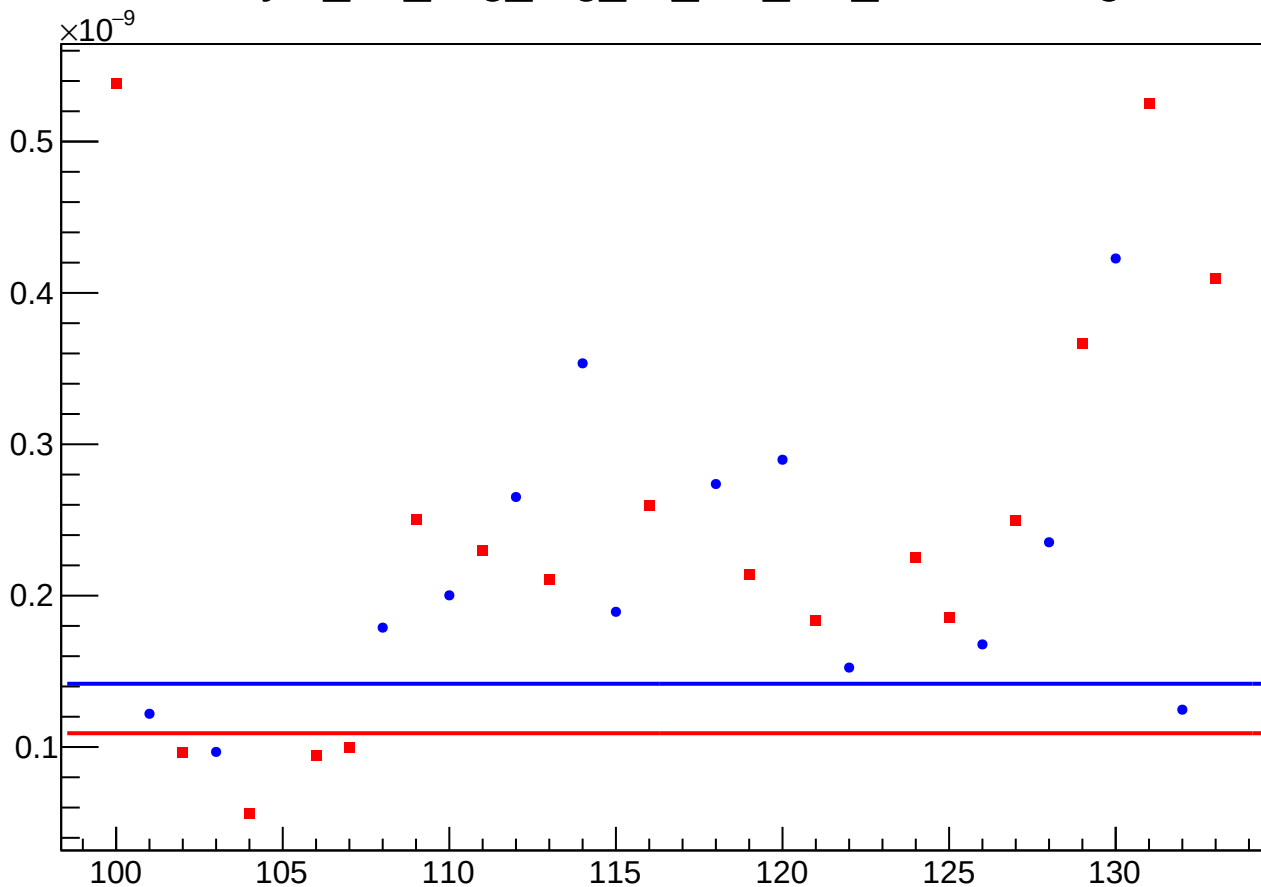
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 27.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 743240.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1726687.1/16

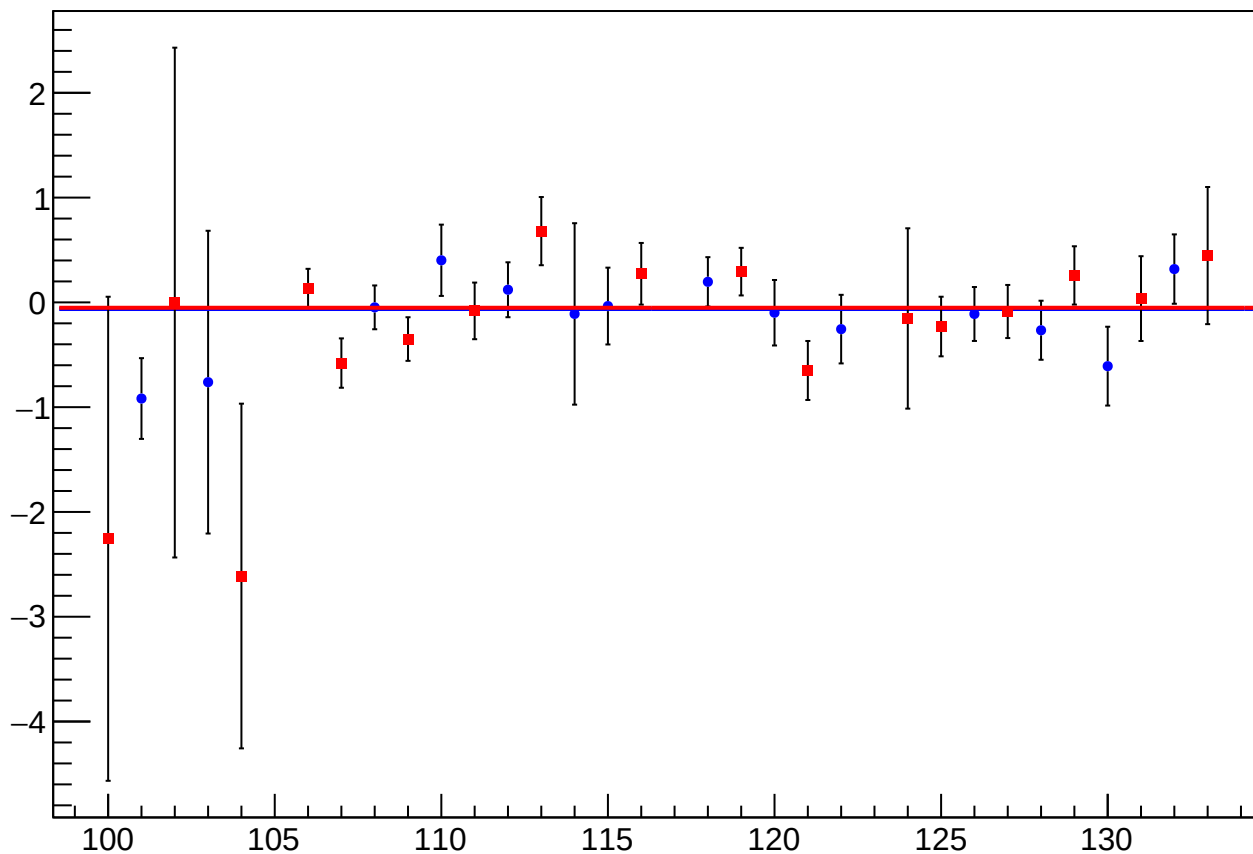
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2602135.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.063 \pm 0.083$   $\chi^2/\text{NDF}$ : 13.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.051 \pm 0.073$   $\chi^2/\text{NDF}$ : 26.9/16

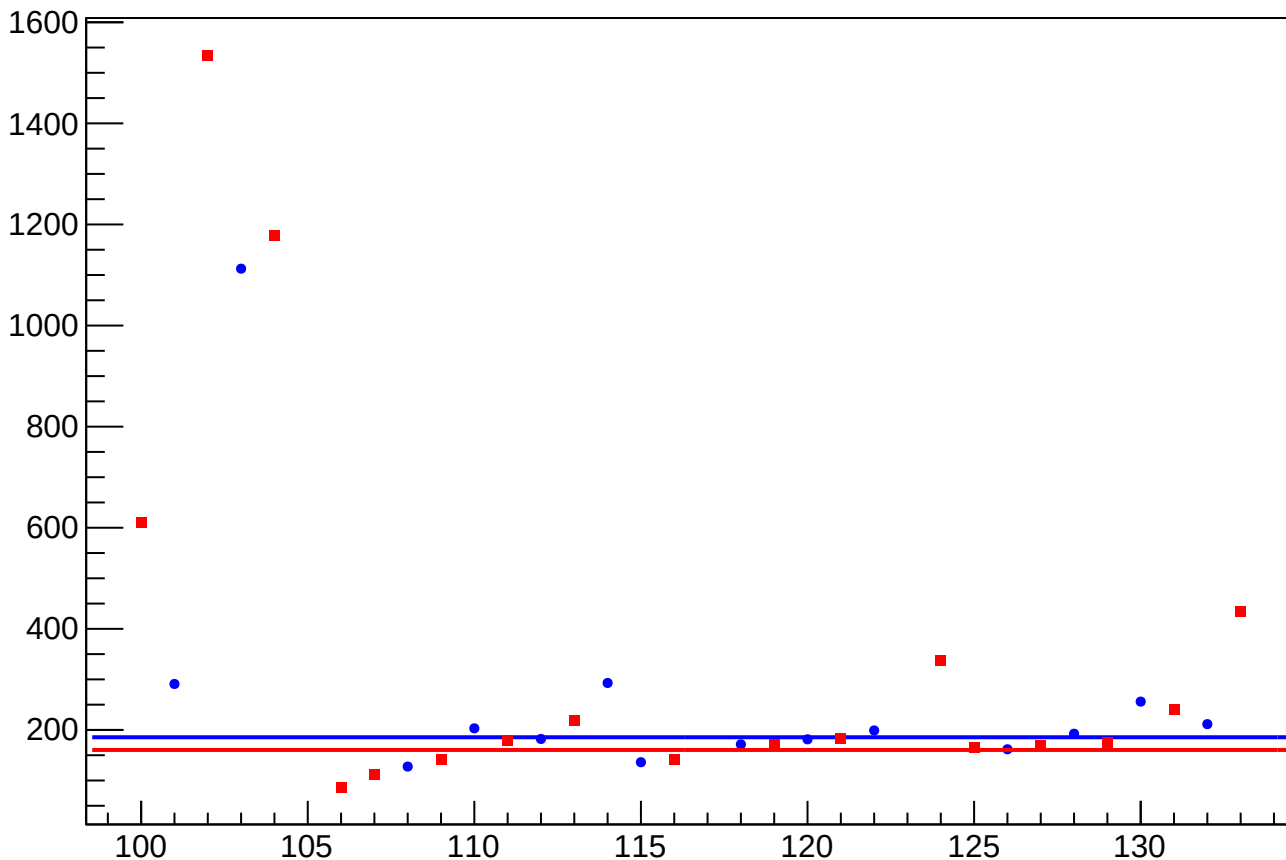
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.057 \pm 0.055$   $\chi^2/\text{NDF}$ : 39.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 185.544+/-0.059  $\chi^2/\text{NDF}$ : 1311253.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 160.421+/-0.051  $\chi^2/\text{NDF}$ : 2534919.0/16

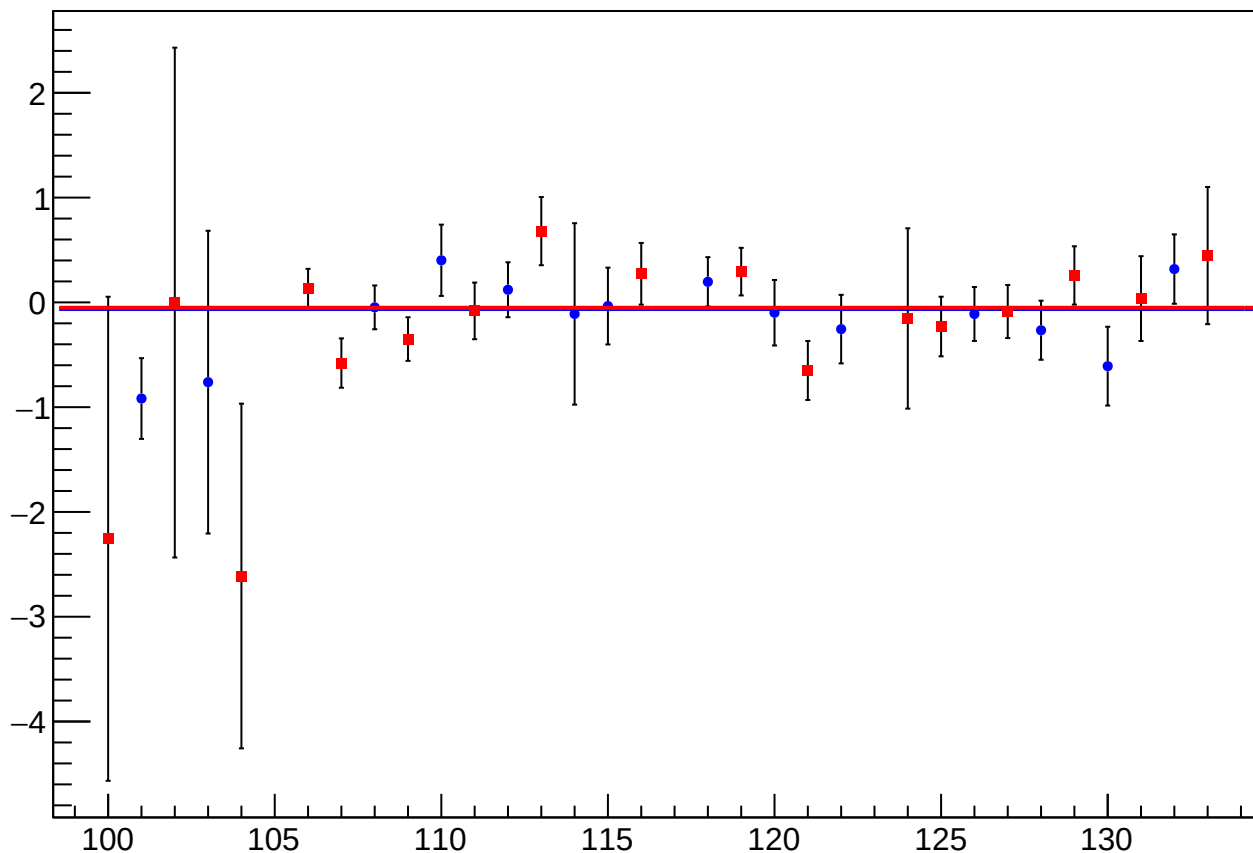
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 171.268+/-0.039  $\chi^2/\text{NDF}$ : 3949160.2/30

- 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: -0.063+/-0.083  $\chi^2/\text{NDF}$ : 13.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.051+/-0.073  $\chi^2/\text{NDF}$ : 26.9/16

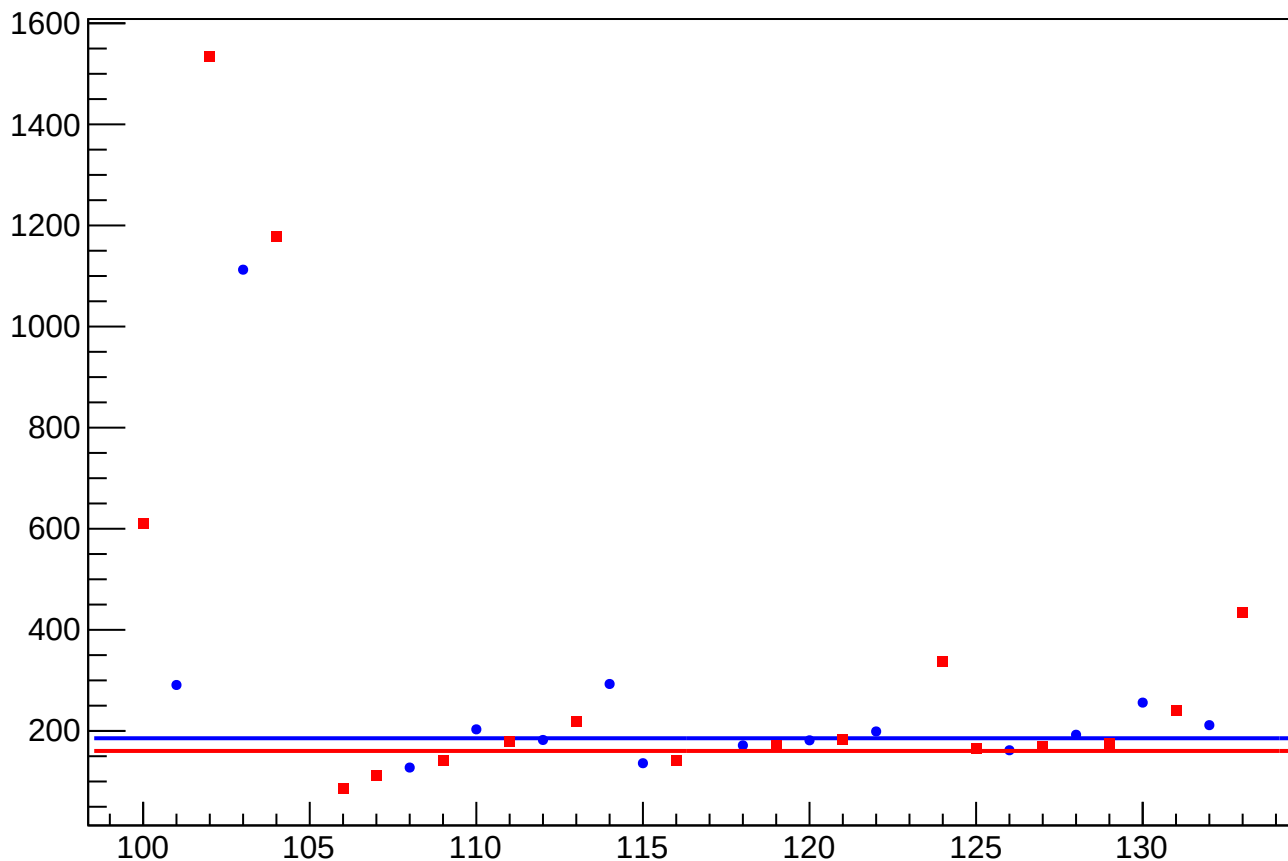
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.057+/-0.055  $\chi^2/\text{NDF}$ : 39.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 185.544+/-0.059  $\chi^2/\text{NDF}$ : 1311253.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 160.421+/-0.051  $\chi^2/\text{NDF}$ : 2534919.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

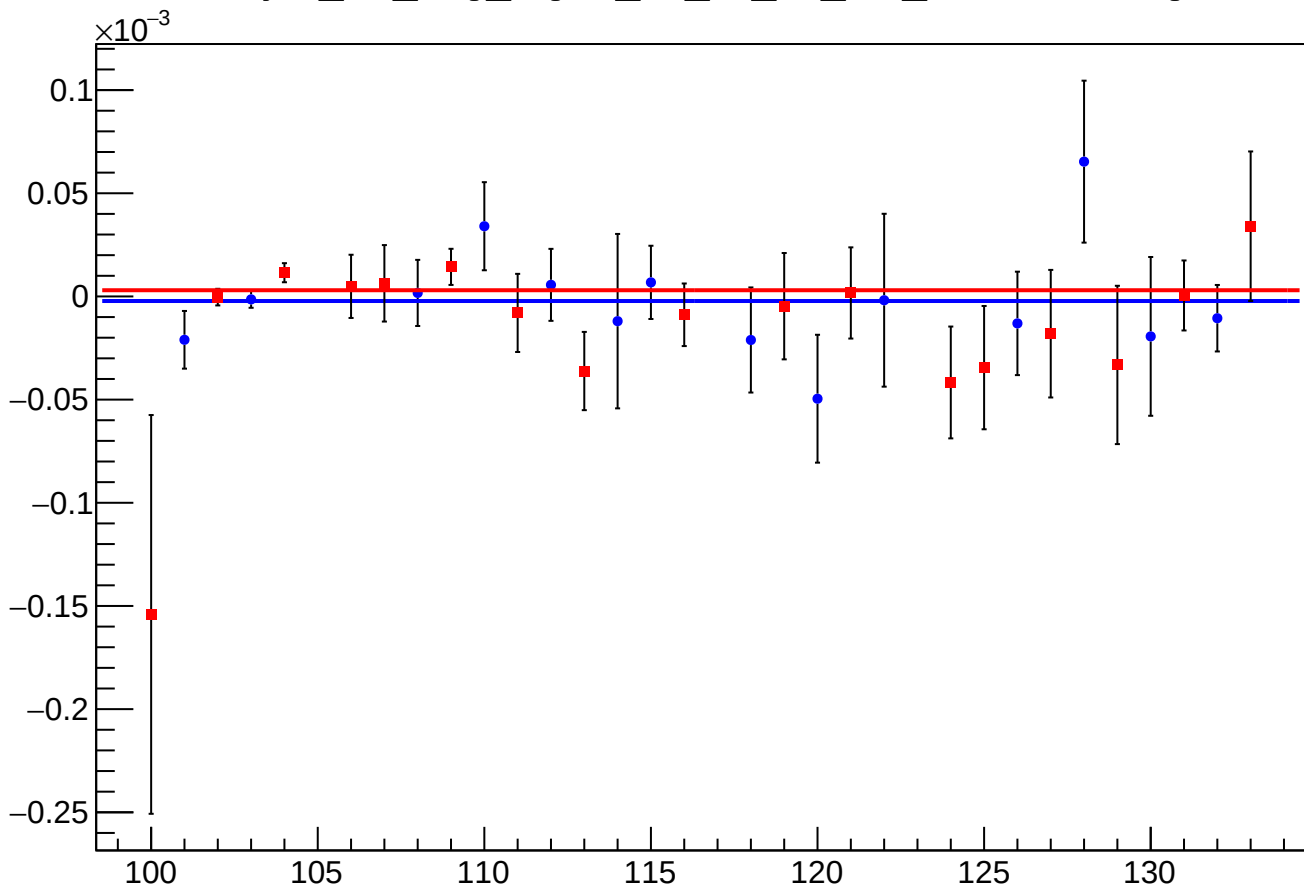
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 171.268+/-0.039  $\chi^2/\text{NDF}$ : 3949160.2/30

- 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  $\chi^2/\text{NDF}$ : 11.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.1/16

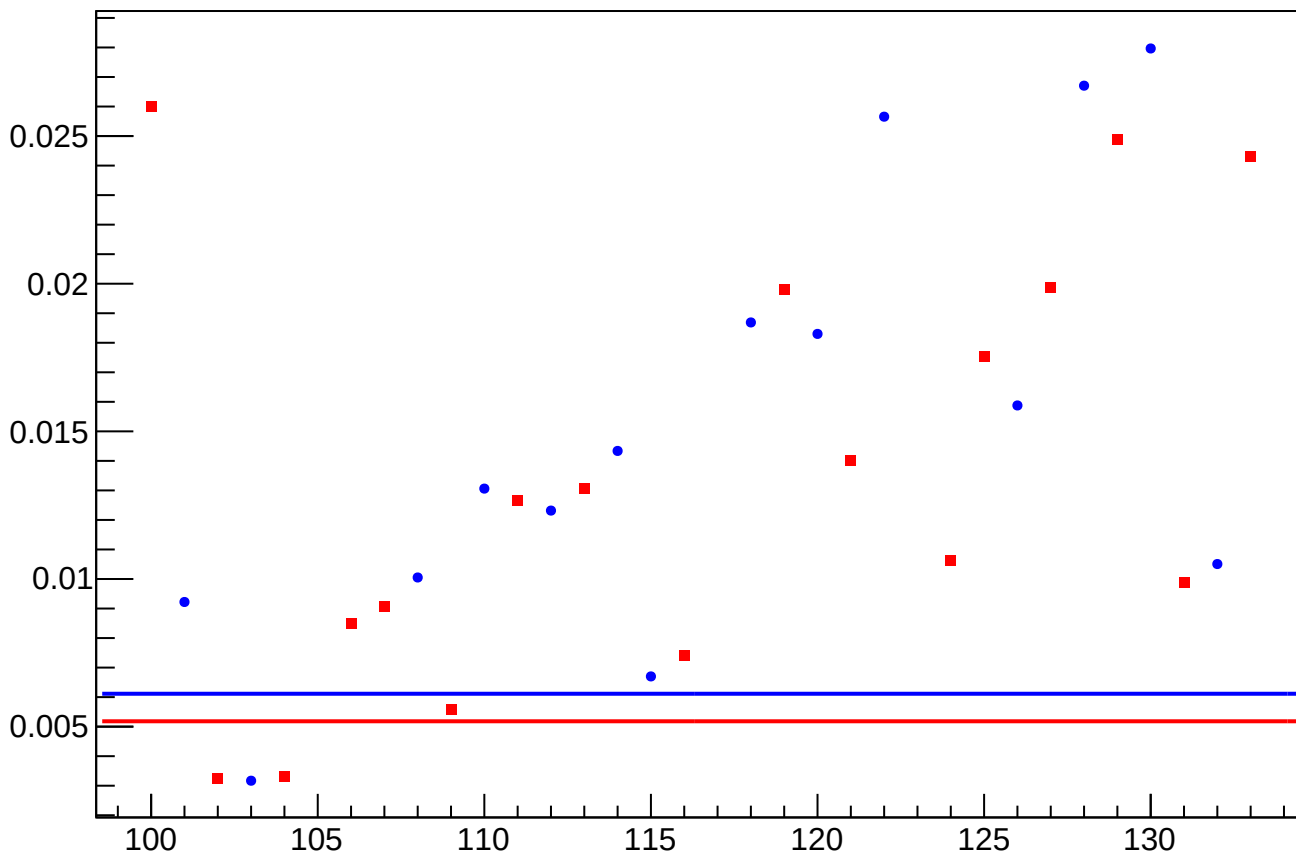
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 33.5/30

- 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: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 4685908.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 4840088.7/16

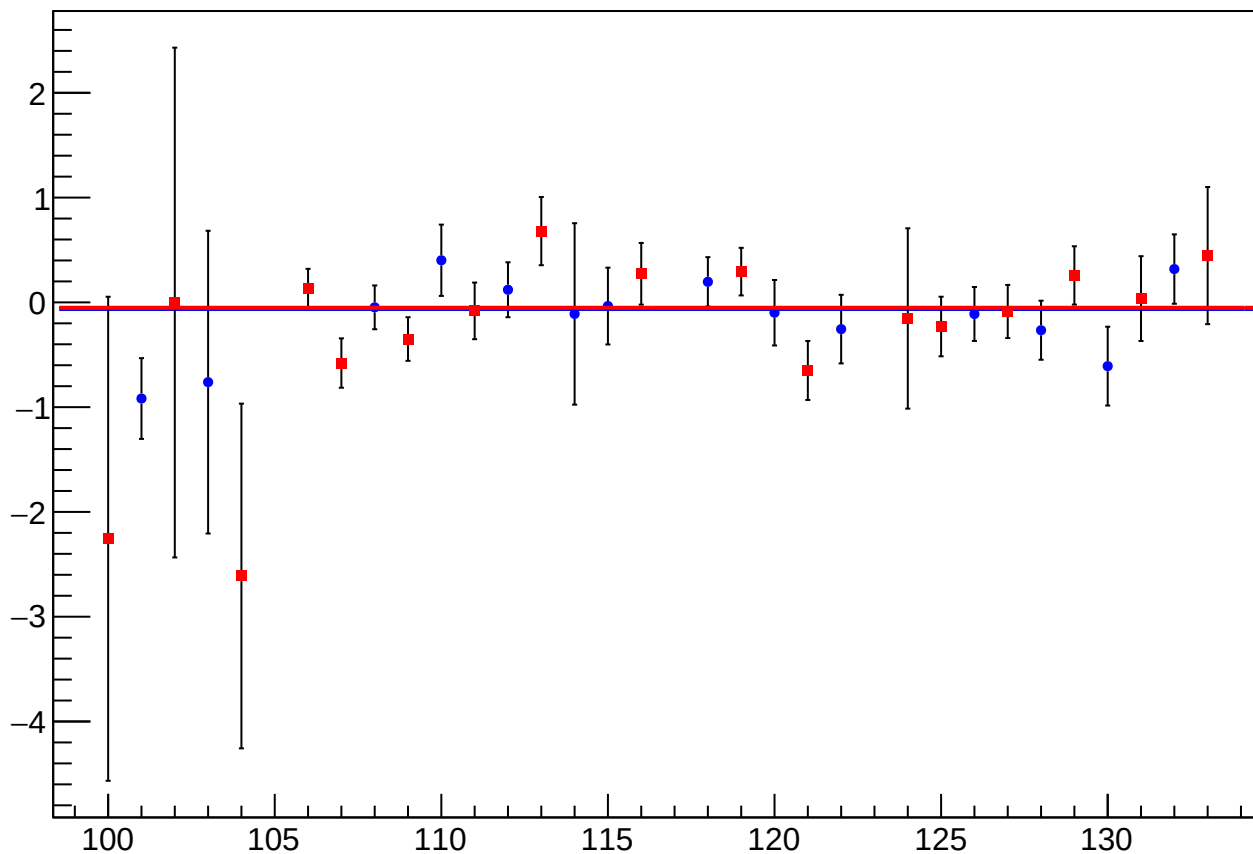
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 9622785.5/30

- 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: -0.063+/-0.083  $\chi^2$ /NDF: 13.1/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.051+/-0.073  $\chi^2$ /NDF: 26.9/16

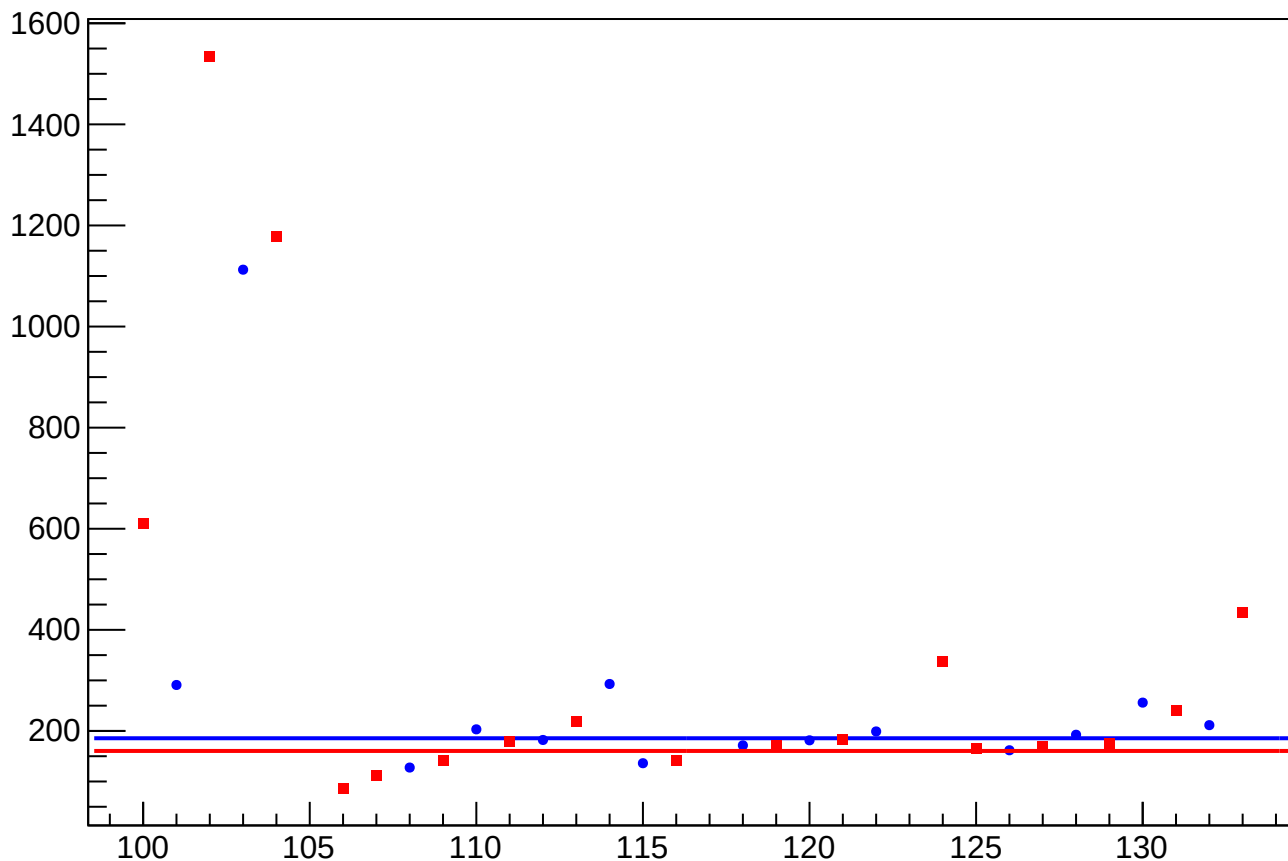
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.057+/-0.055  $\chi^2$ /NDF: 39.9/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 185.542 $\pm$ 0.059  $\chi^2$ /NDF: 1311231.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 160.420 $\pm$ 0.051  $\chi^2$ /NDF: 2534880.1/16

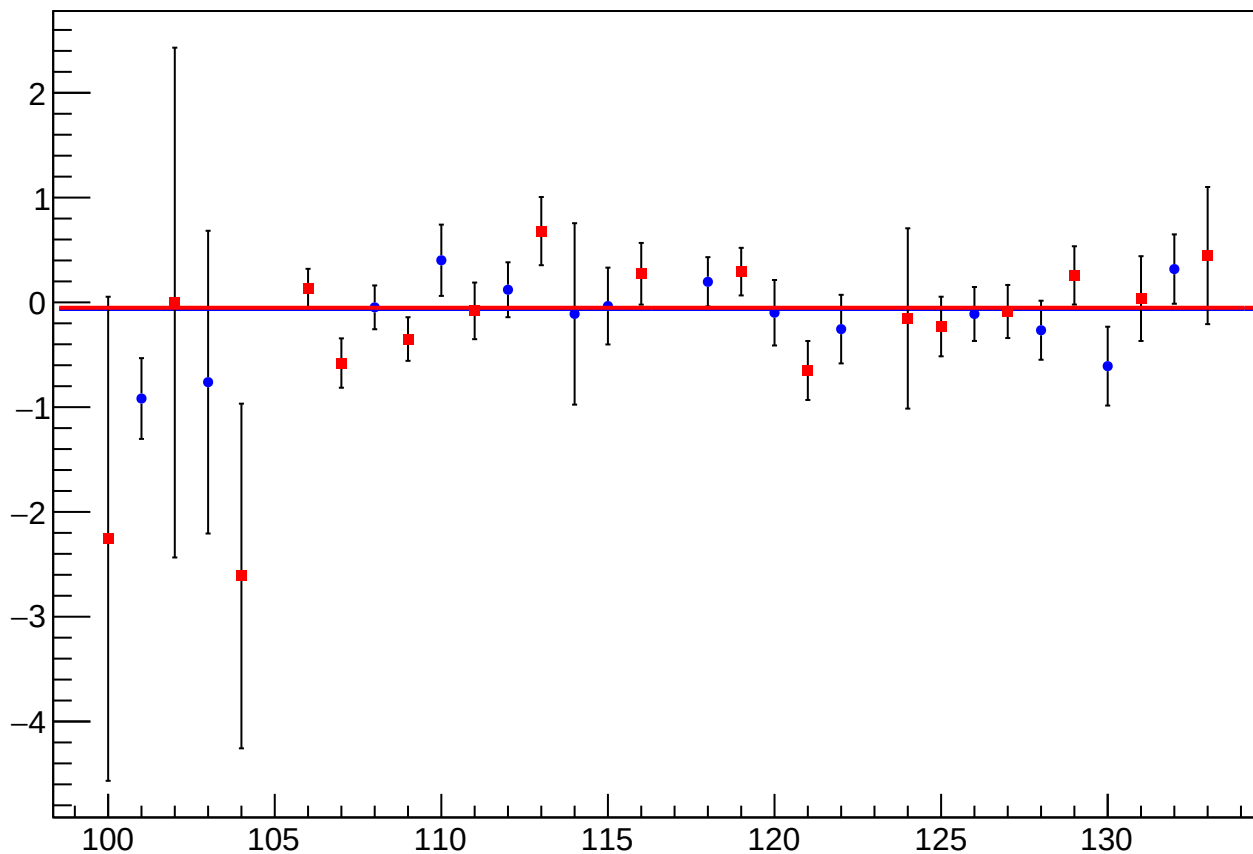
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 171.267 $\pm$ 0.039  $\chi^2$ /NDF: 3949095.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.063 \pm 0.083$   $\chi^2/\text{NDF}$ : 13.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.051 \pm 0.073$   $\chi^2/\text{NDF}$ : 26.9/16

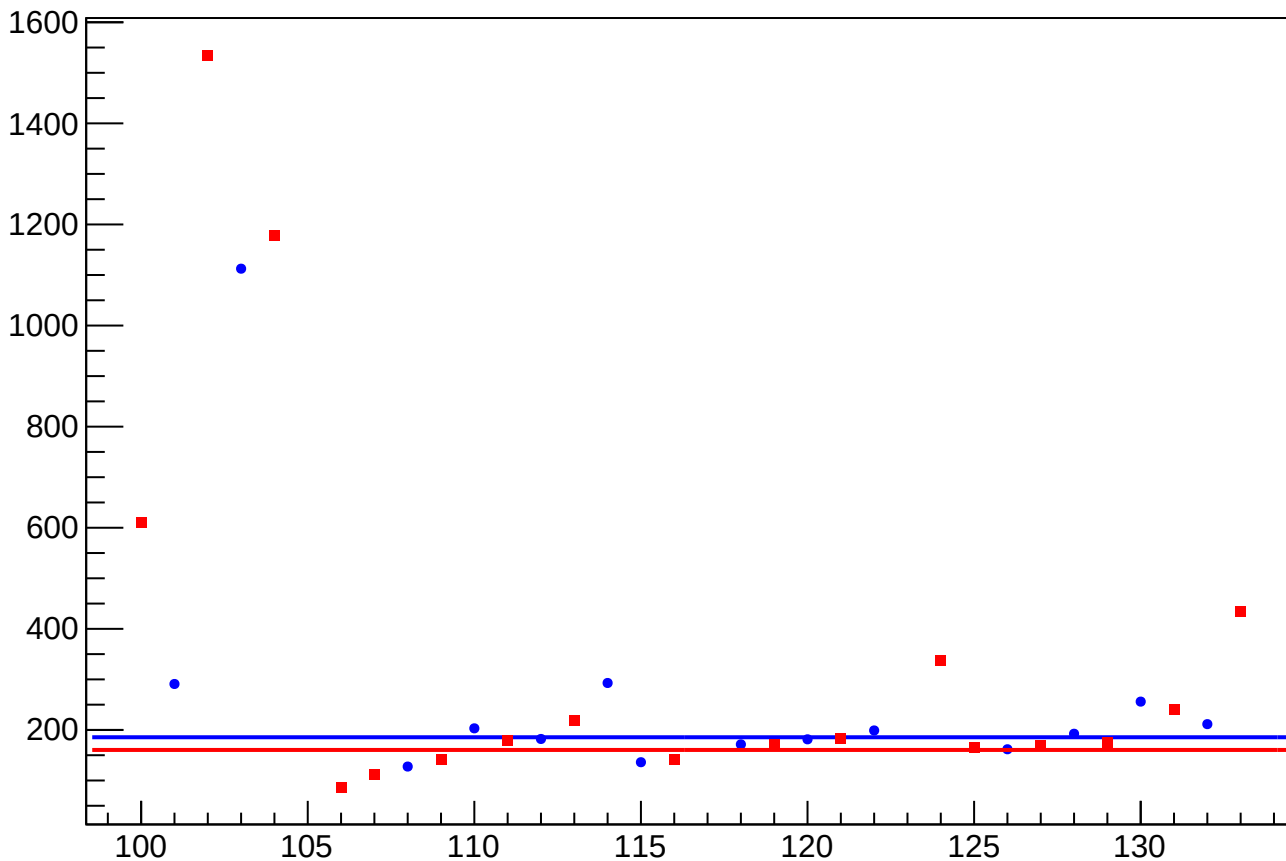
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.057 \pm 0.055$   $\chi^2/\text{NDF}$ : 39.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 185.542 $\pm$ 0.059  $\chi^2$ /NDF: 1311231.1/13

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

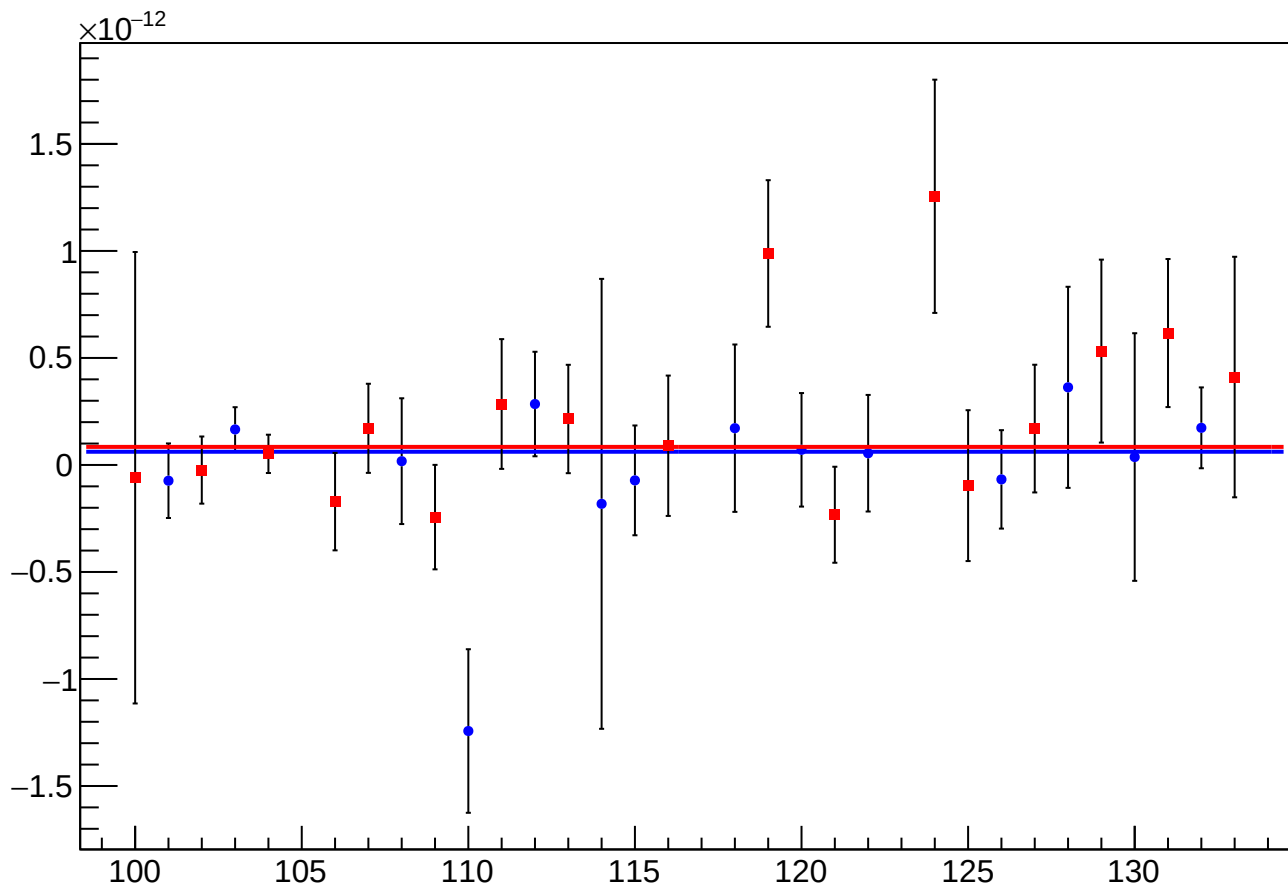
Right Out: 160.420 $\pm$ 0.051  $\chi^2$ /NDF: 2534880.1/16

All: 171.267 $\pm$ 0.039  $\chi^2$ /NDF: 3949095.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 22.3/16

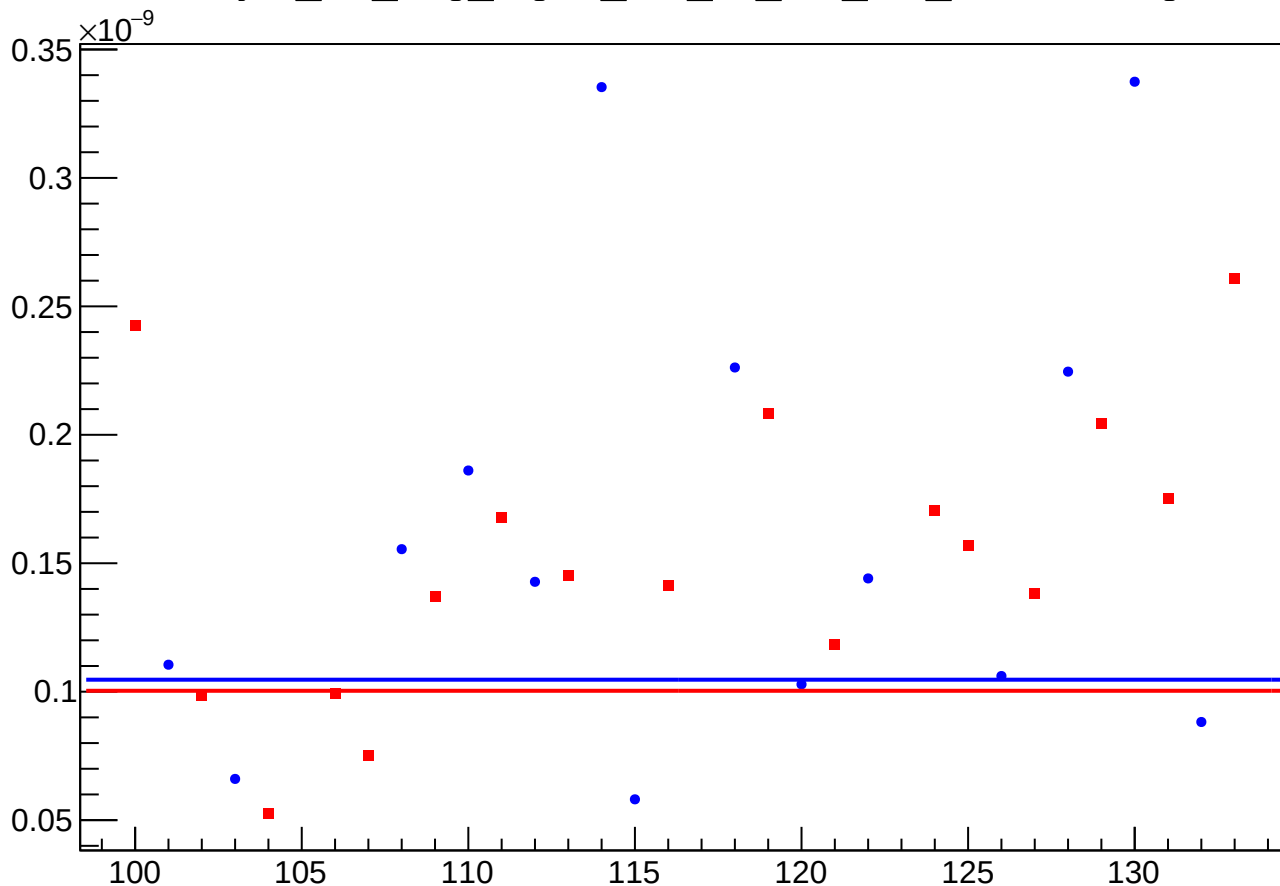
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1345285.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1578298.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

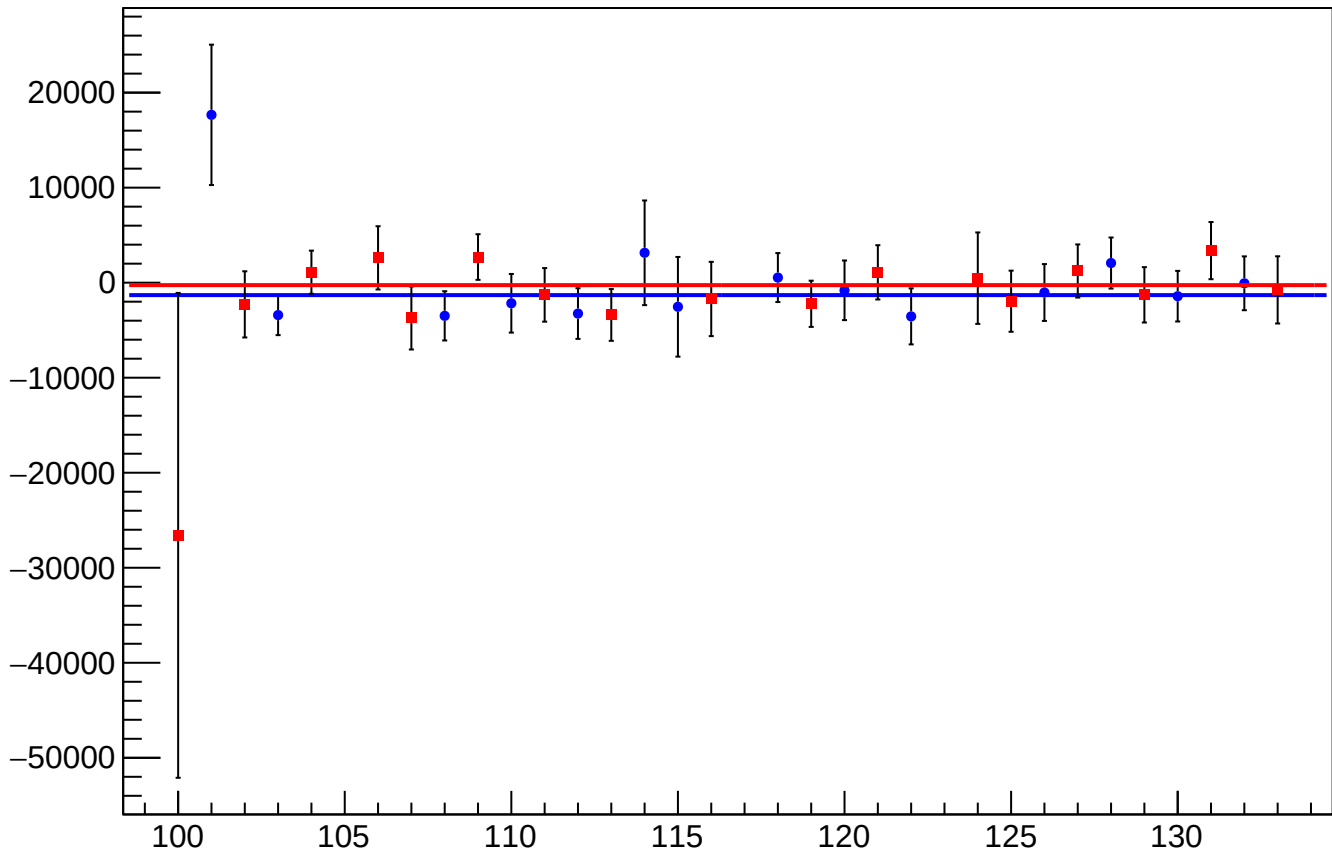
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2929062.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr\_dd\_mean vs Slug



Right In:  $-1308.372 \pm 793.115$   $\chi^2/\text{NDF}$ : 12.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-258.642 \pm 739.889$   $\chi^2/\text{NDF}$ : 9.8/16

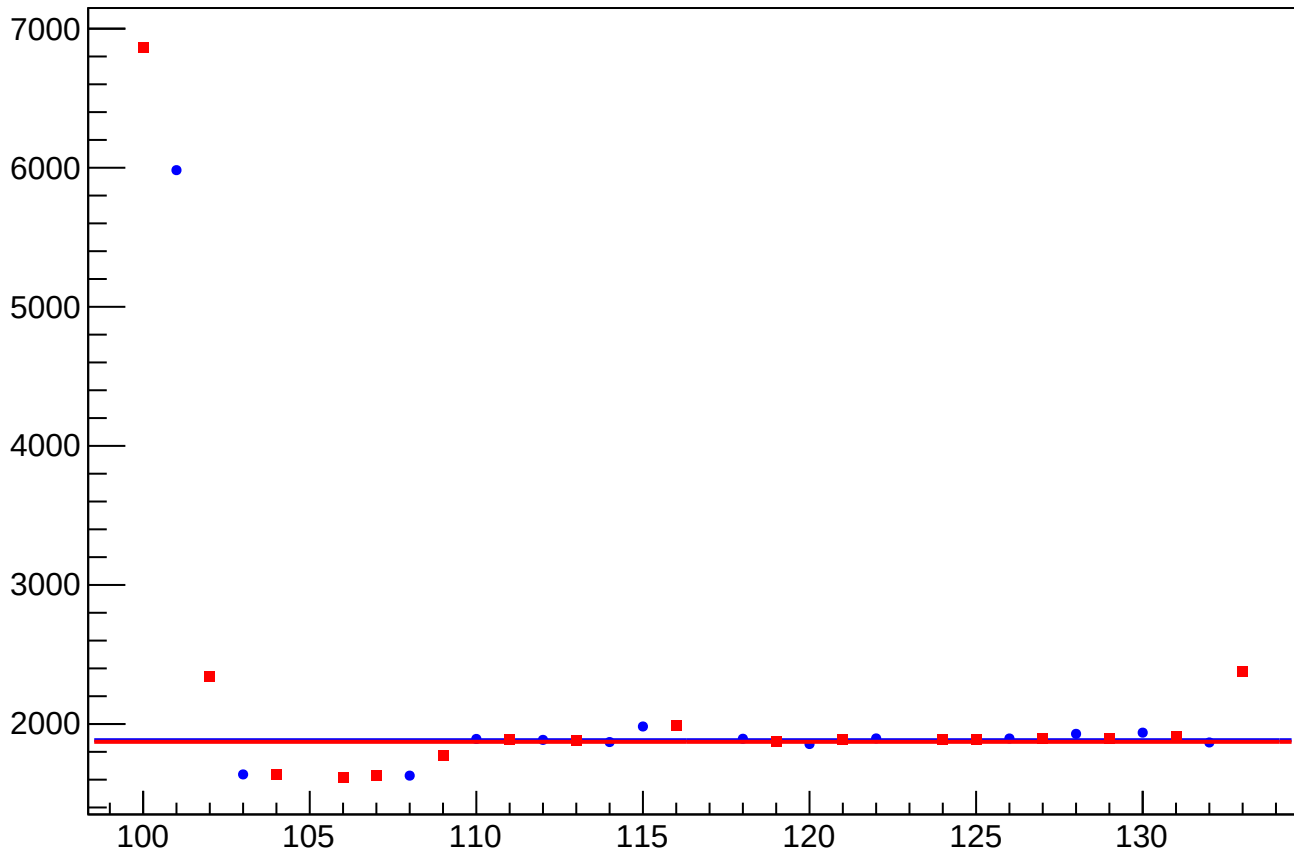
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-747.105 \pm 541.019$   $\chi^2/\text{NDF}$ : 23.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_rms vs Slug



Right In: 1883.755+/-0.561  $\chi^2/\text{NDF}$ : 664761.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1872.031+/-0.521  $\chi^2/\text{NDF}$ : 207352.8/16

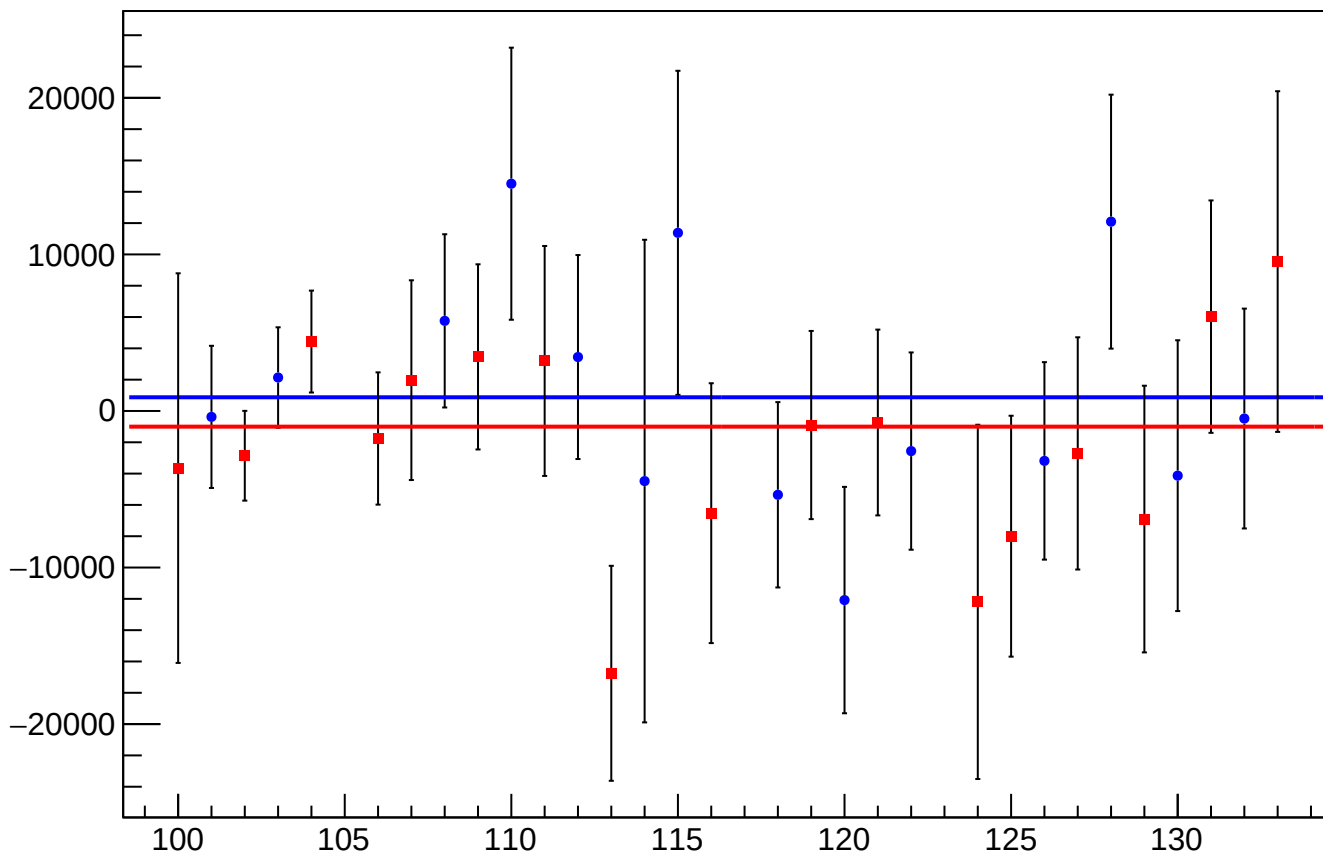
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1877.464+/-0.382  $\chi^2/\text{NDF}$ : 872348.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_reg\_correction\_mean vs Slug



Right In: 874.357+/-1631.772  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1000.774+/-1379.556  $\chi^2/\text{NDF}$ : 14.3/16

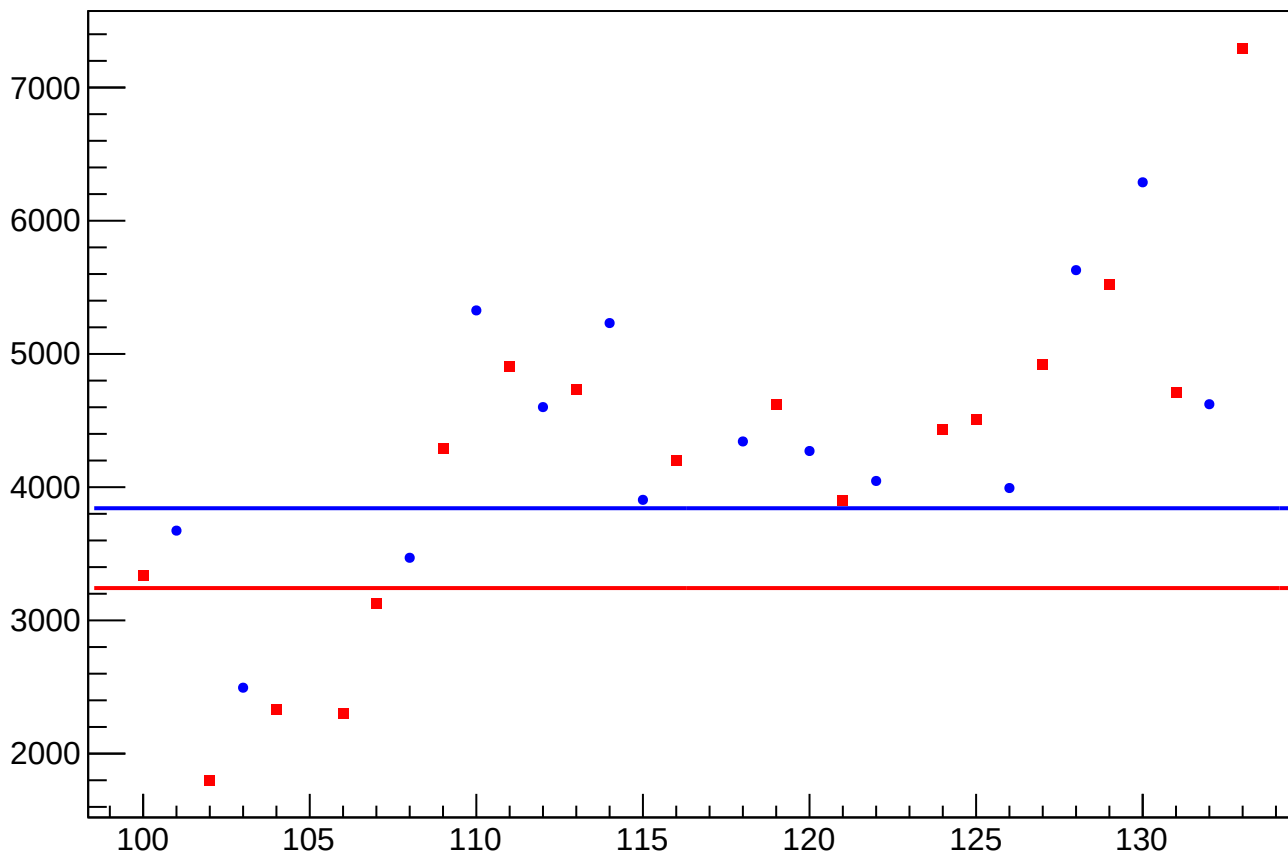
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -219.167+/-1053.508  $\chi^2/\text{NDF}$ : 27.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_reg\_correction\_rms vs Slug



Right In: 3841.969+/-1.154  $\chi^2/\text{NDF}$ : 772910.8/13

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

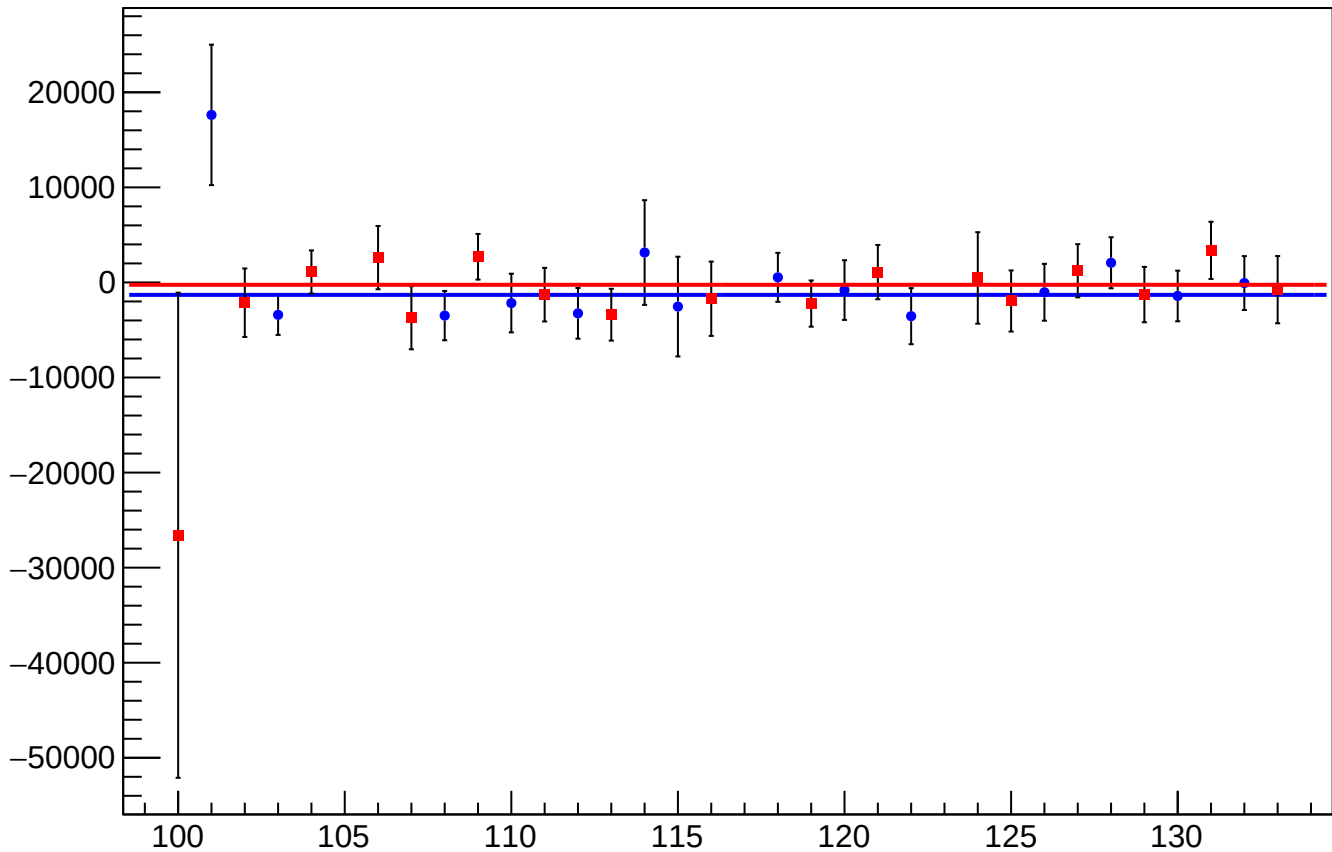
Right Out: 3242.656+/-0.975  $\chi^2/\text{NDF}$ : 1859277.3/16

All: 3492.466+/-0.745  $\chi^2/\text{NDF}$ : 2789519.7/30

- 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: -1308.793+/-793.115  $\chi^2/\text{NDF}$ : 12.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -246.820+/-740.996  $\chi^2/\text{NDF}$ : 9.7/16

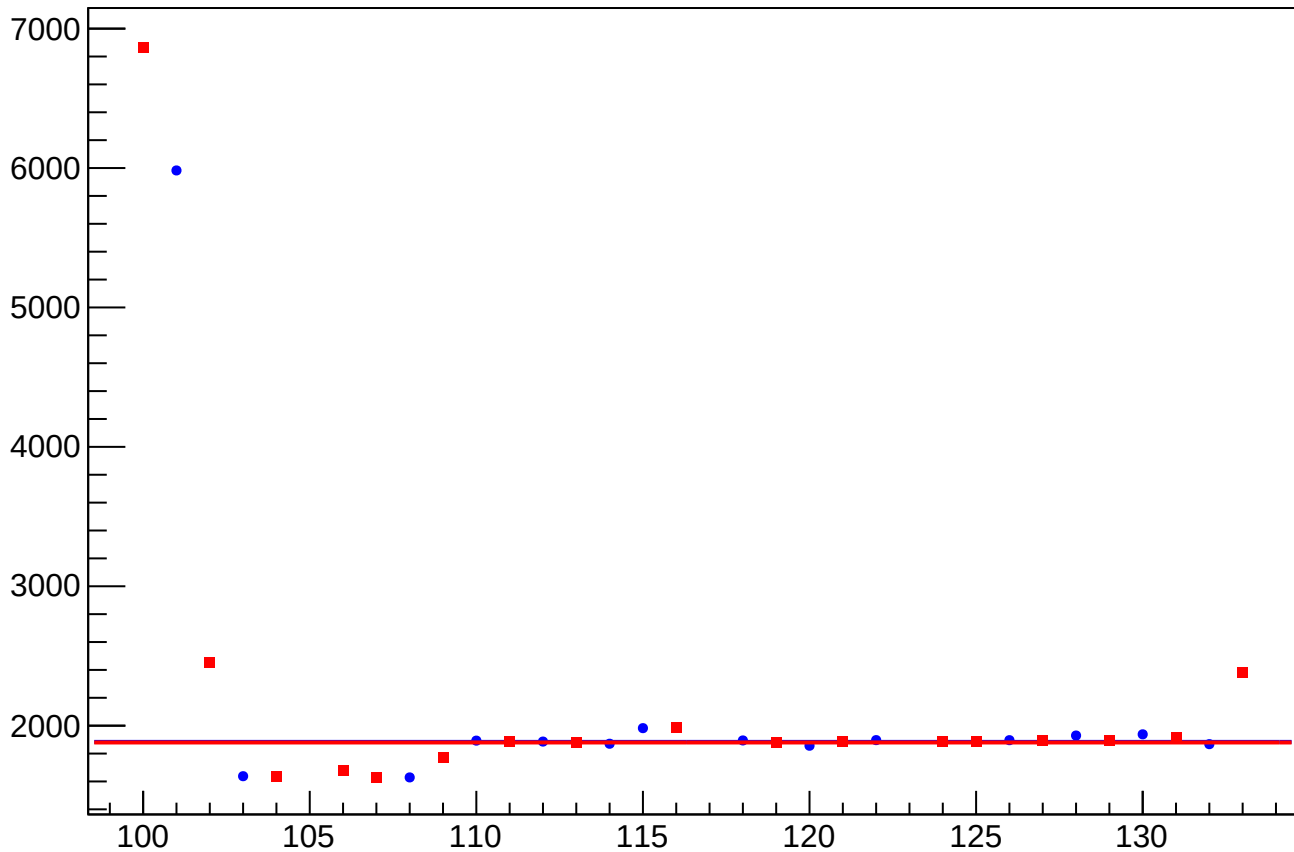
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -741.769+/-541.452  $\chi^2/\text{NDF}$ : 23.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atr\_dd\_rms vs Slug



Right In: 1883.755+/-0.561  $\chi^2$ /NDF: 664761.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1879.505+/-0.523  $\chi^2$ /NDF: 216361.6/16

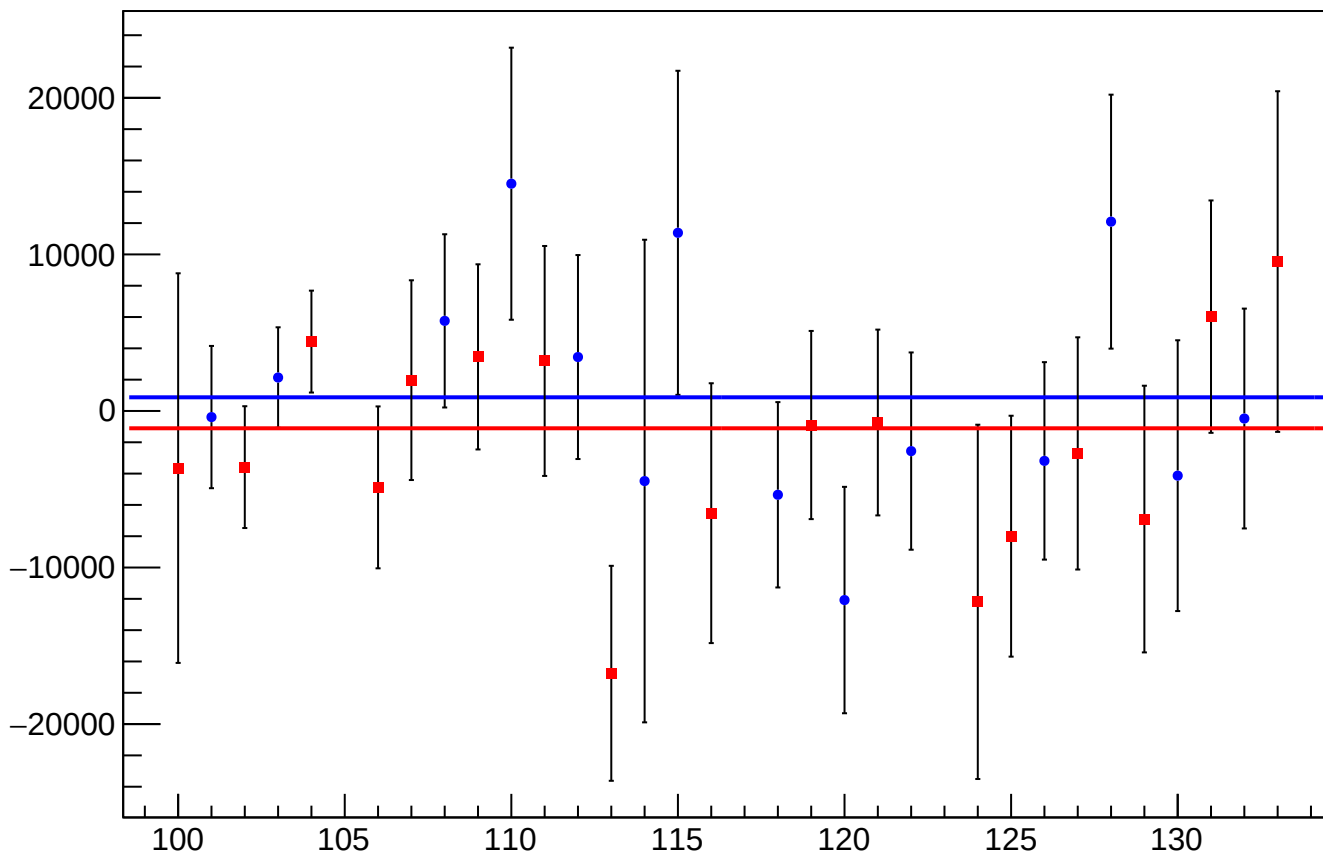
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 1881.482+/-0.383  $\chi^2$ /NDF: 881153.8/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_cor\_correction\_mean vs Slug



Right In: 872.794 $\pm$ 1632.004  $\chi^2$ /NDF: 12.1/13

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

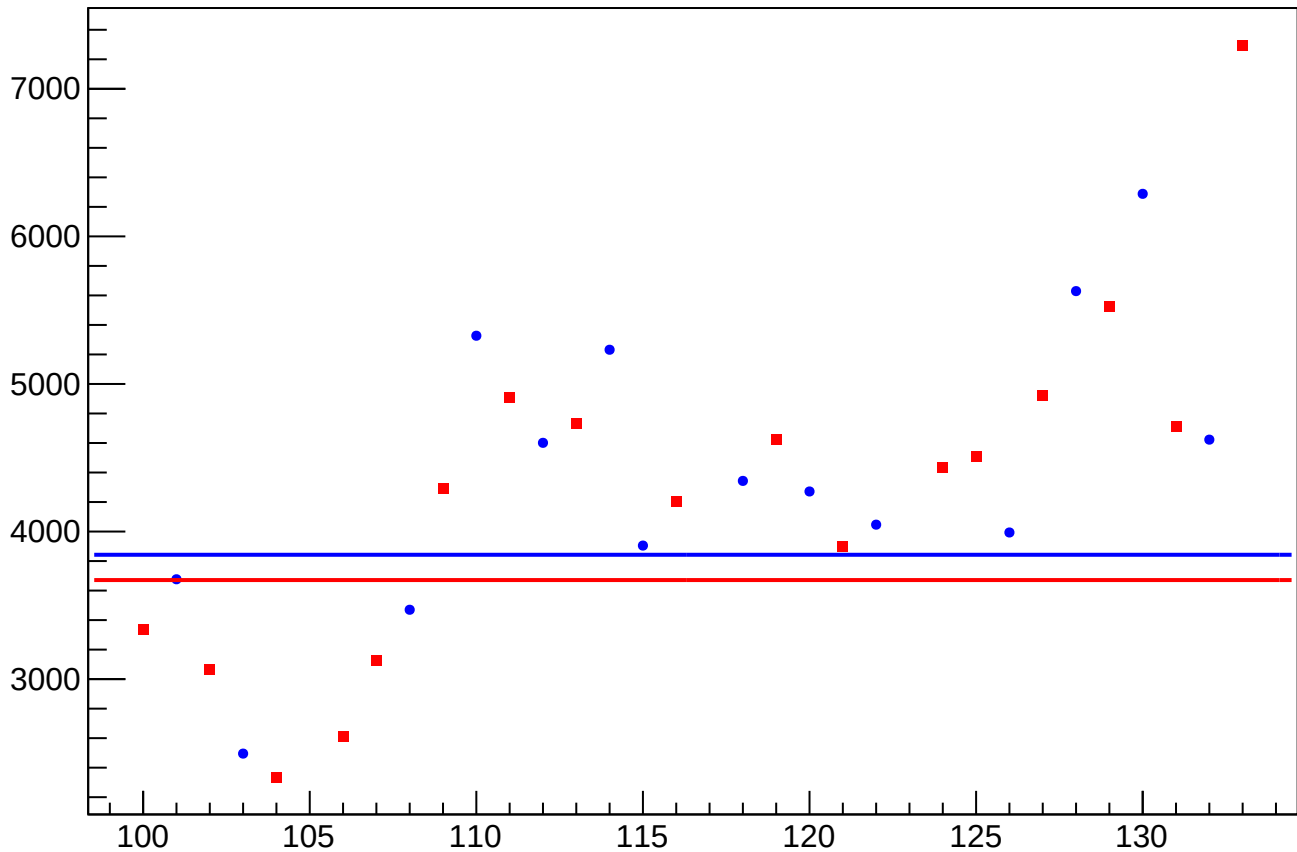
Right Out: -1106.200 $\pm$ 1488.758  $\chi^2$ /NDF: 14.8/16

All: -207.350 $\pm$ 1099.873  $\chi^2$ /NDF: 27.7/30

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_cor\_correction\_rms vs Slug



Right In: 3842.611+/-1.154  $\chi^2/\text{NDF}$ : 772440.4/13

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: 3671.244+/-1.053  $\chi^2/\text{NDF}$ : 1119715.4/16

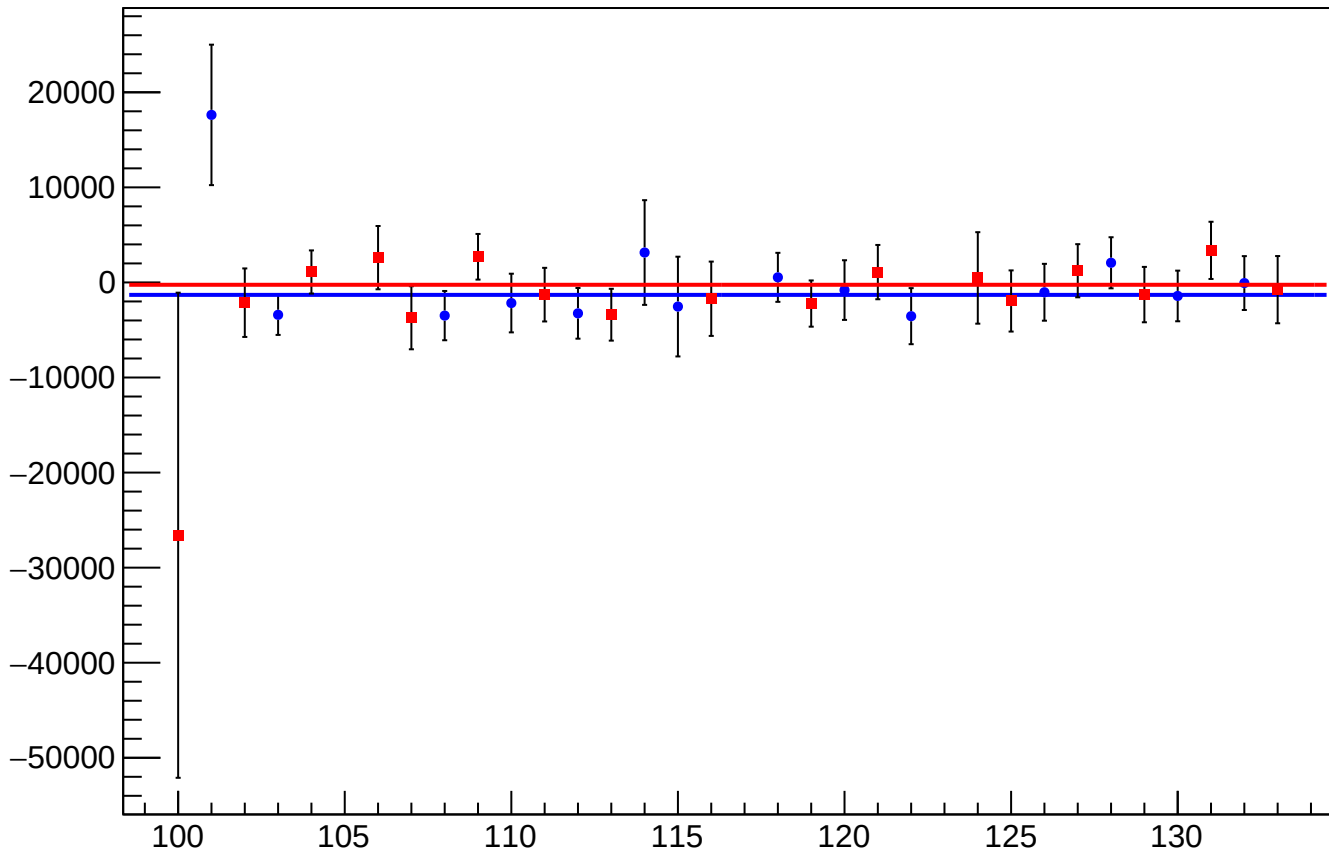
All: 3749.078+/-0.778  $\chi^2/\text{NDF}$ : 1904191.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_atr\_dd\_mean vs Slug



Right In: -1308.793+/-793.115  $\chi^2/\text{NDF}$ : 12.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -246.820+/-740.996  $\chi^2/\text{NDF}$ : 9.7/16

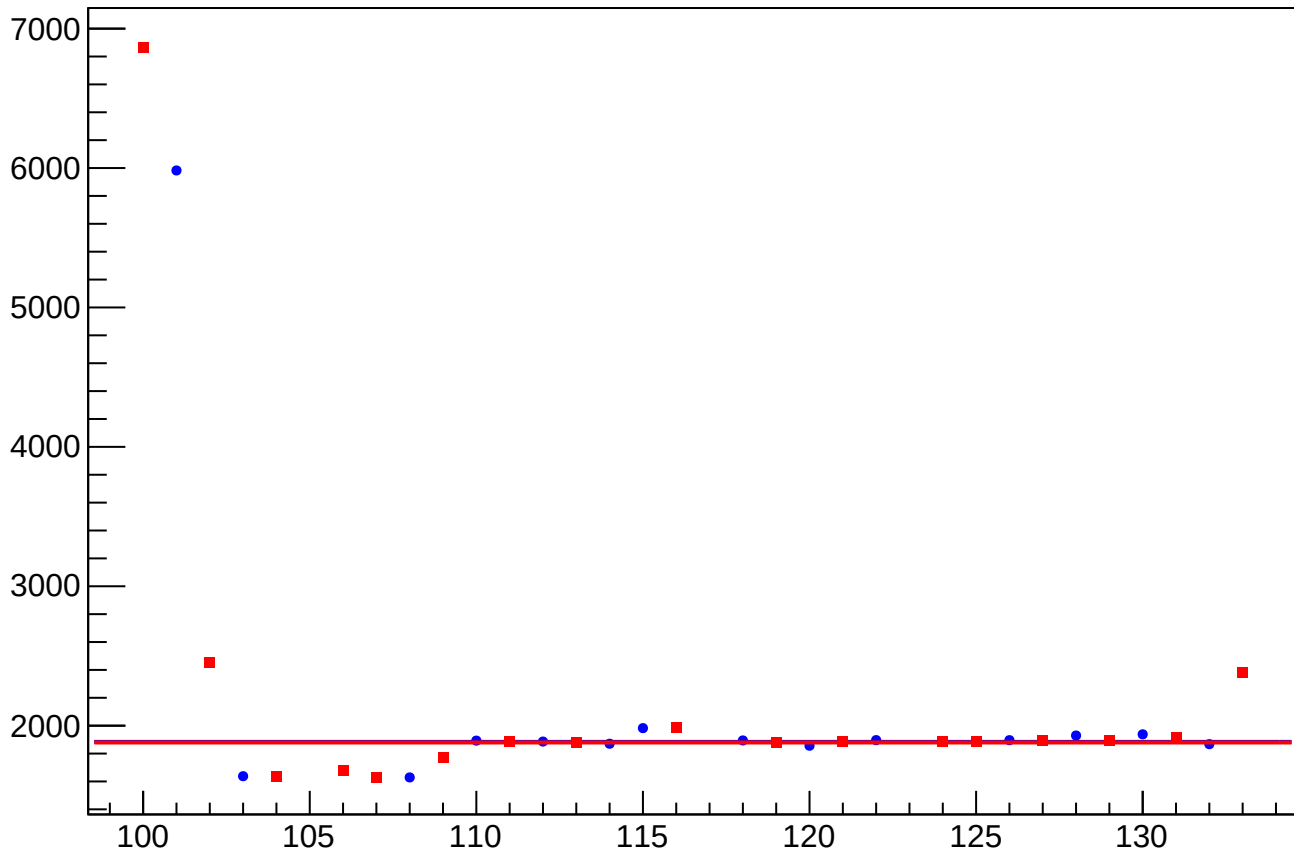
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -741.769+/-541.452  $\chi^2/\text{NDF}$ : 23.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr\_dd\_rms vs Slug



Right In: 1883.755+/-0.561  $\chi^2$ /NDF: 664761.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

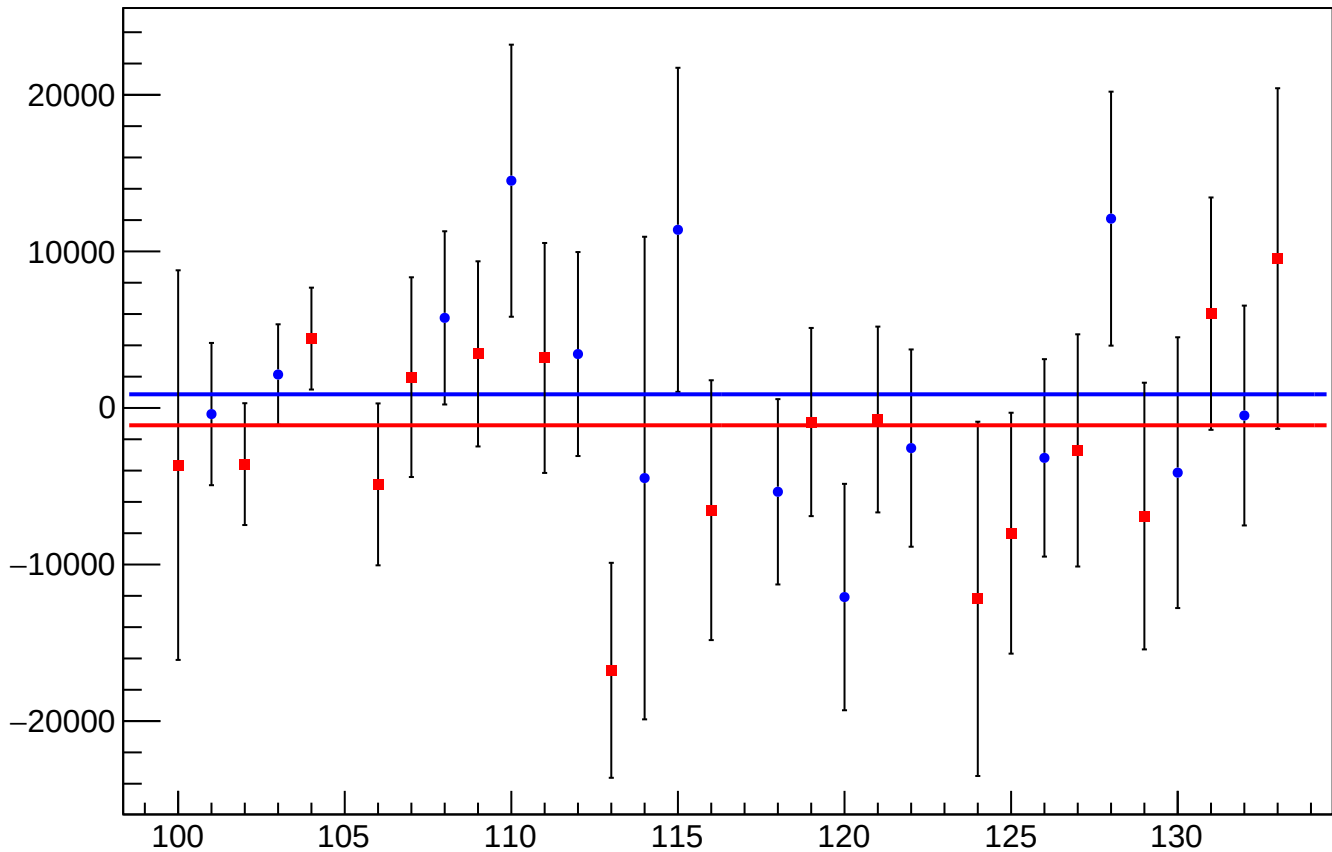
Right Out: 1879.505+/-0.523  $\chi^2$ /NDF: 216361.6/16

All: 1881.482+/-0.383  $\chi^2$ /NDF: 881153.8/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 872.794+/-1632.004  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1106.200+/-1488.758  $\chi^2/\text{NDF}$ : 14.8/16

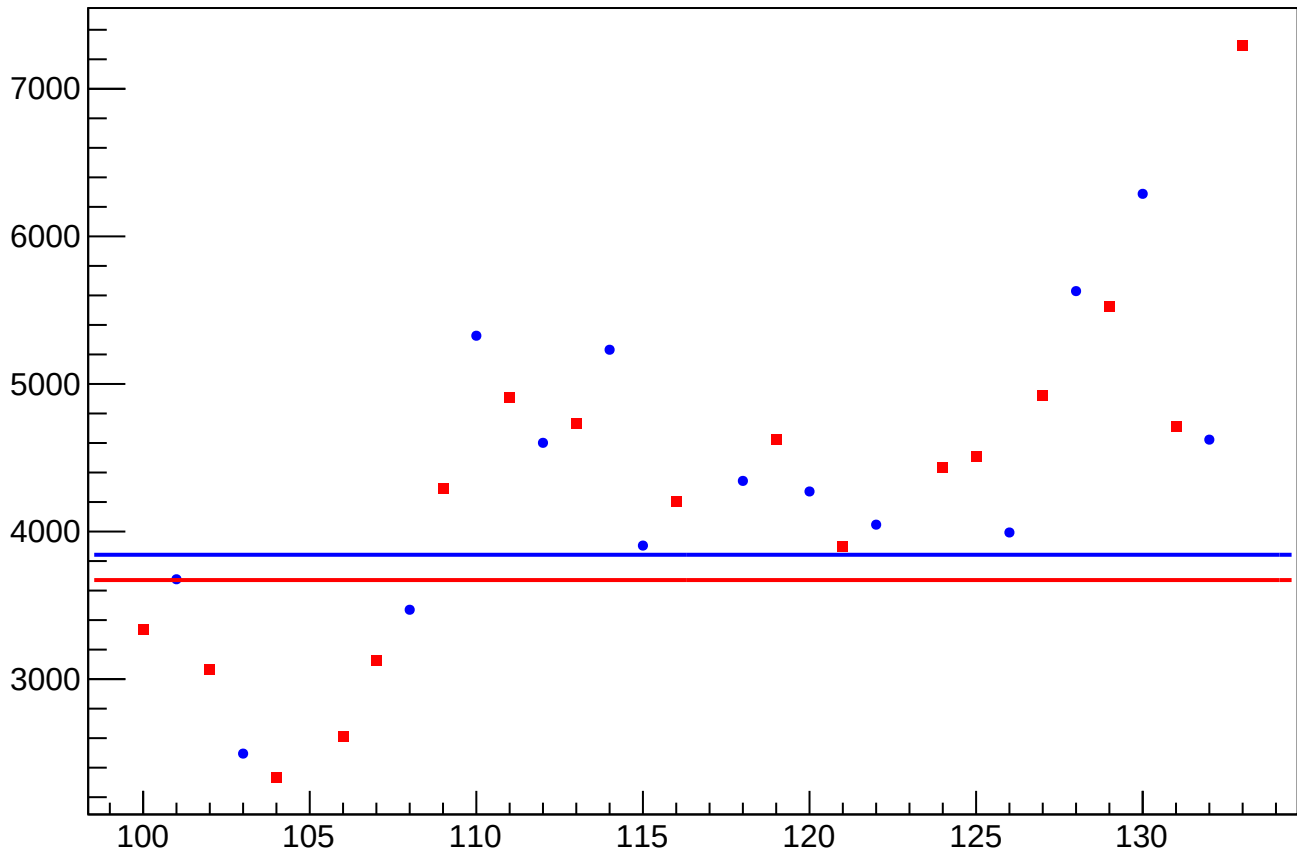
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -207.350+/-1099.873  $\chi^2/\text{NDF}$ : 27.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3842.611+/-1.154  $\chi^2/\text{NDF}$ : 772440.4/13

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

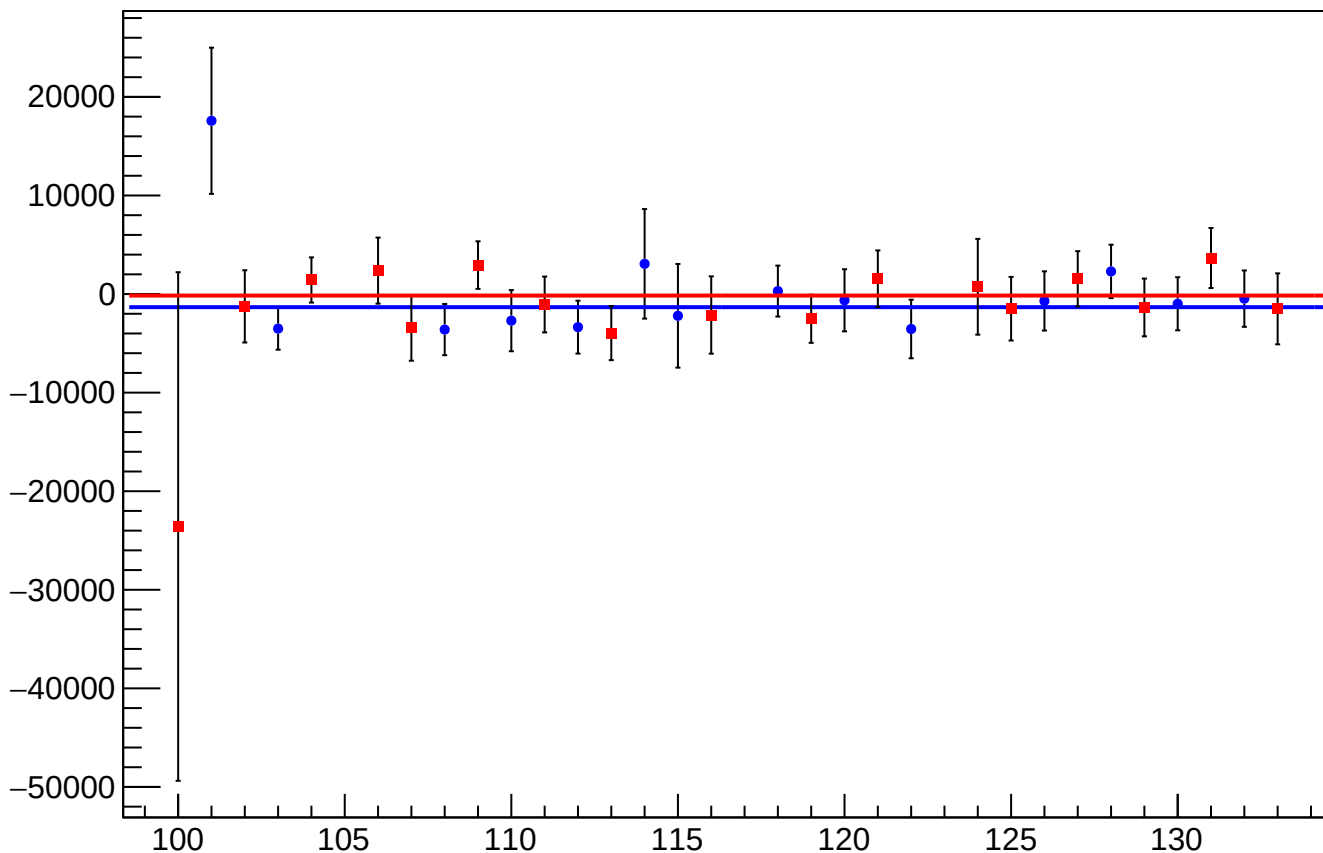
Right Out: 3671.244+/-1.053  $\chi^2/\text{NDF}$ : 1119715.4/16

All: 3749.078+/-0.778  $\chi^2/\text{NDF}$ : 1904191.7/30

- 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\_atr\_dd\_mean vs Slug



Right In: -1330.627+/-798.553  $\chi^2/\text{NDF}$ : 12.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -153.492+/-746.343  $\chi^2/\text{NDF}$ : 10.6/16

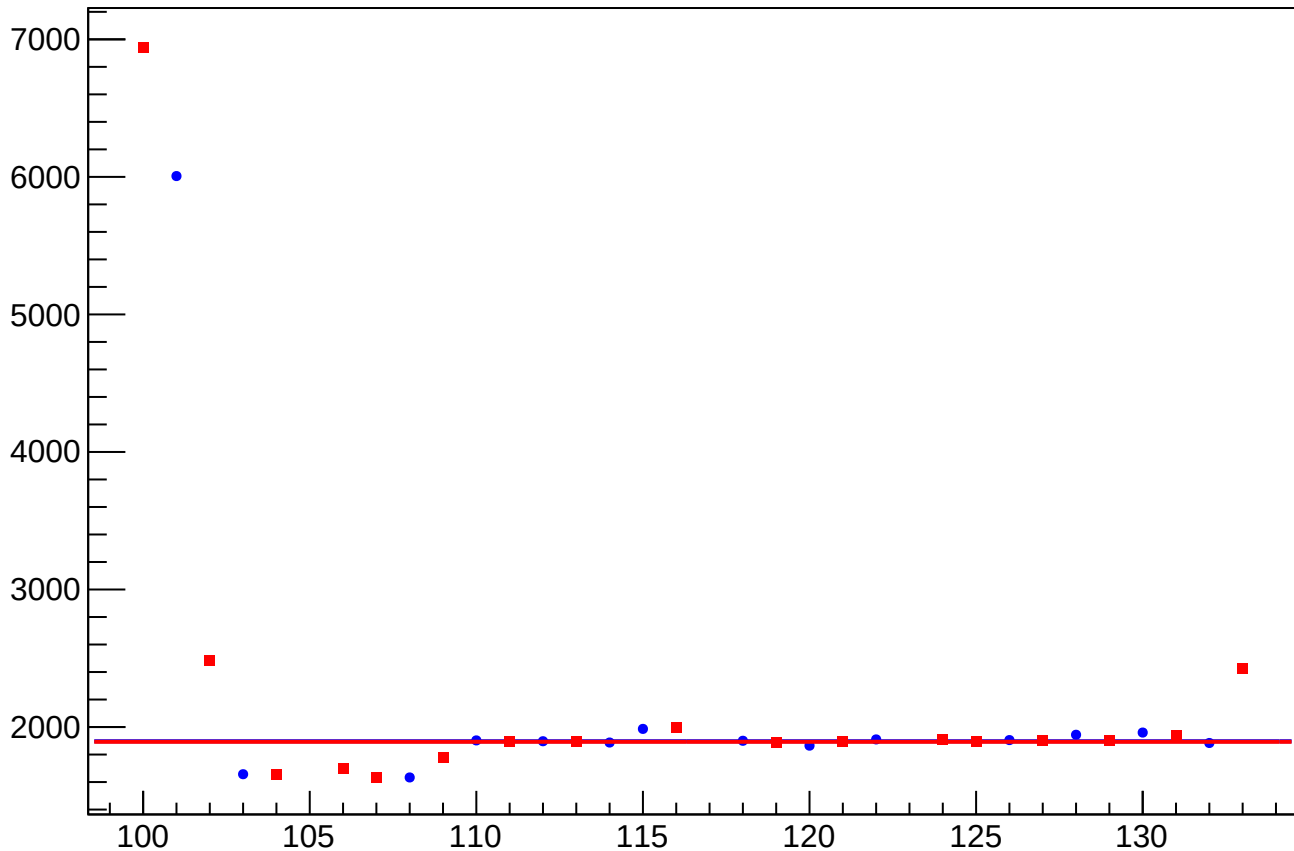
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -702.323+/-545.268  $\chi^2/\text{NDF}$ : 24.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atr\_dd\_rms vs Slug



Right In: 1896.857+/-0.565  $\chi^2/\text{NDF}$ : 662322.7/13

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

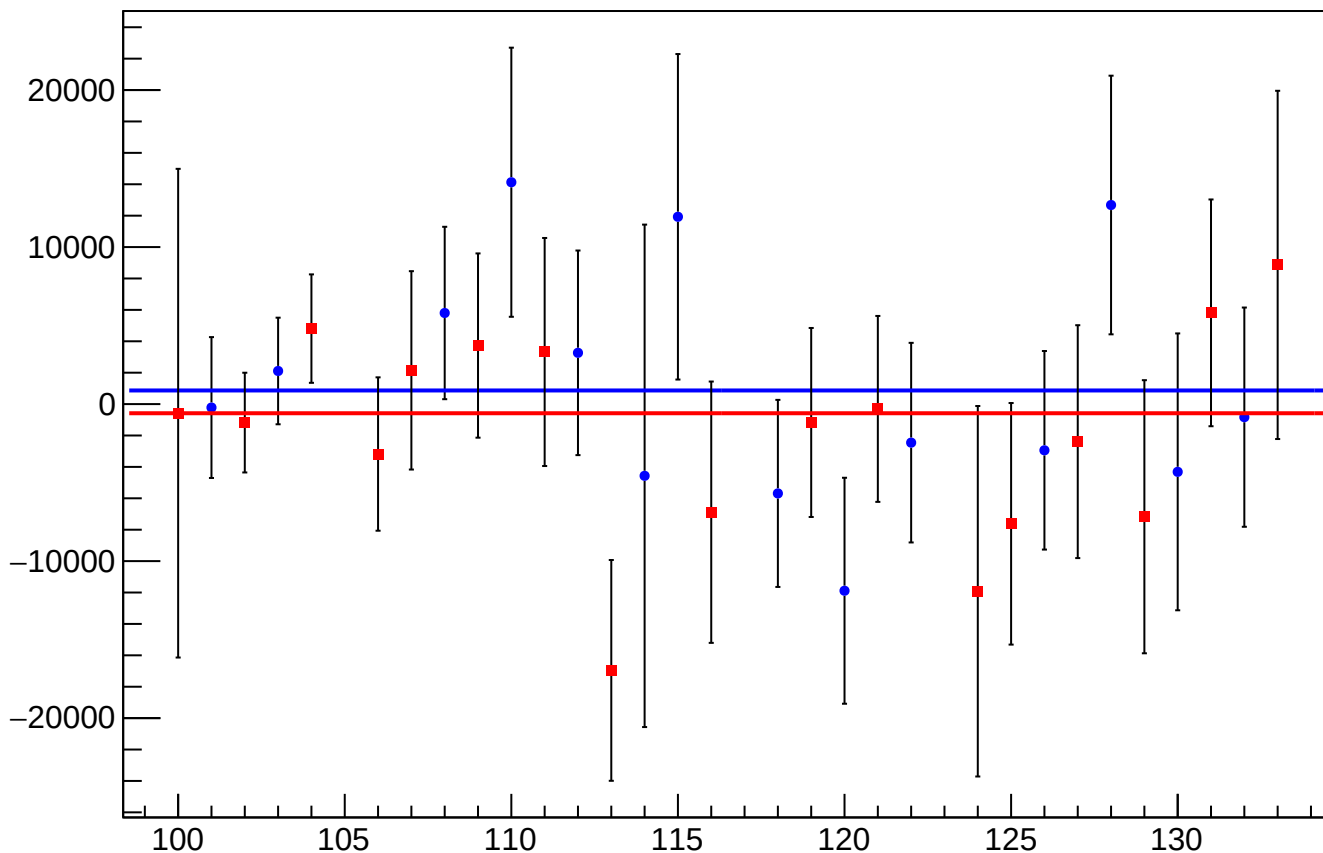
Right Out: 1892.749+/-0.527  $\chi^2/\text{NDF}$ : 219538.1/16

All: 1894.662+/-0.385  $\chi^2/\text{NDF}$ : 881889.1/30

- 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\_dd\_dit\_correction\_mean vs Slug



Right In:  $867.750 \pm 1654.208$   $\chi^2/\text{NDF}$ : 12.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-582.597 \pm 1449.777$   $\chi^2/\text{NDF}$ : 13.7/16

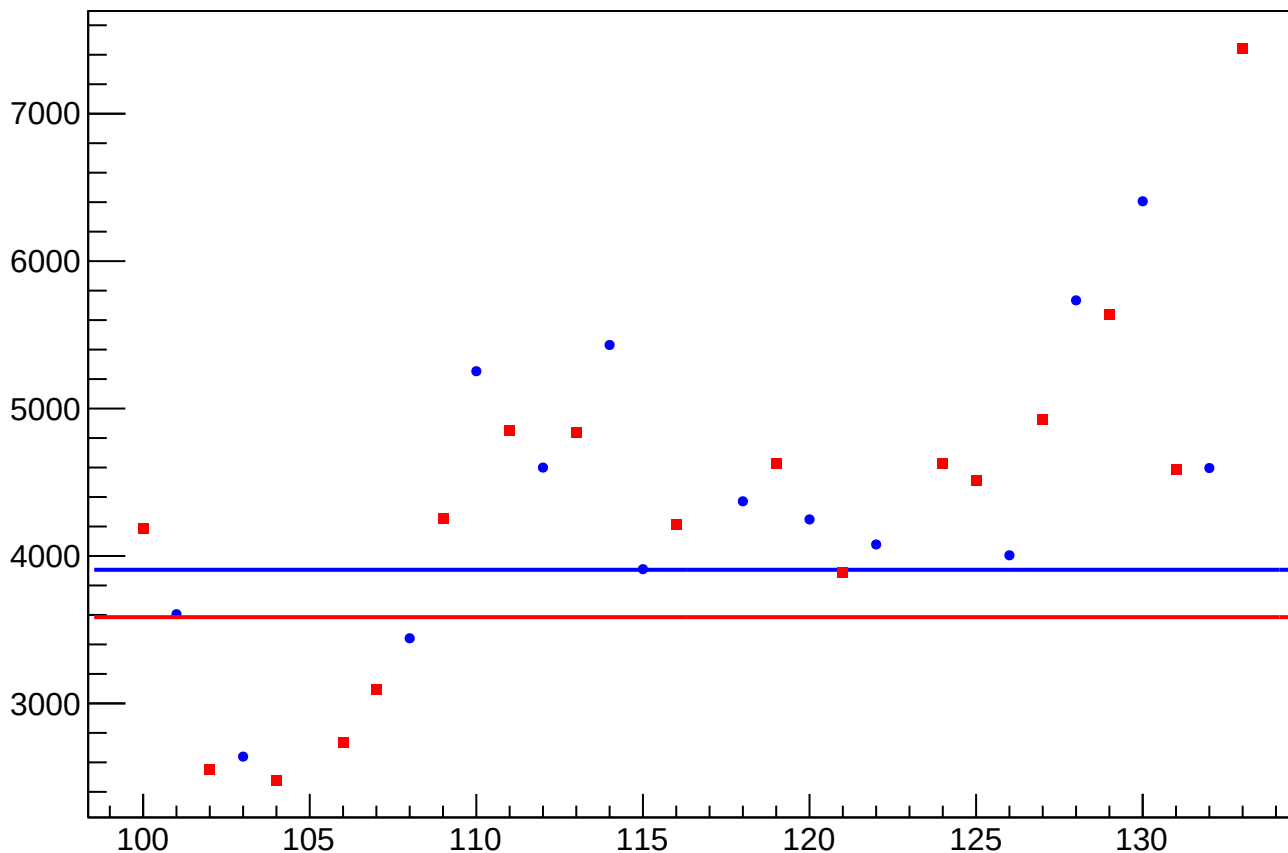
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $47.468 \pm 1090.302$   $\chi^2/\text{NDF}$ : 26.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_dit\_correction\_rms vs Slug



Right In: 3906.353+/-1.170  $\chi^2/\text{NDF}$ : 689705.2/13

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: 3585.041+/-1.025  $\chi^2/\text{NDF}$ : 1221572.1/16

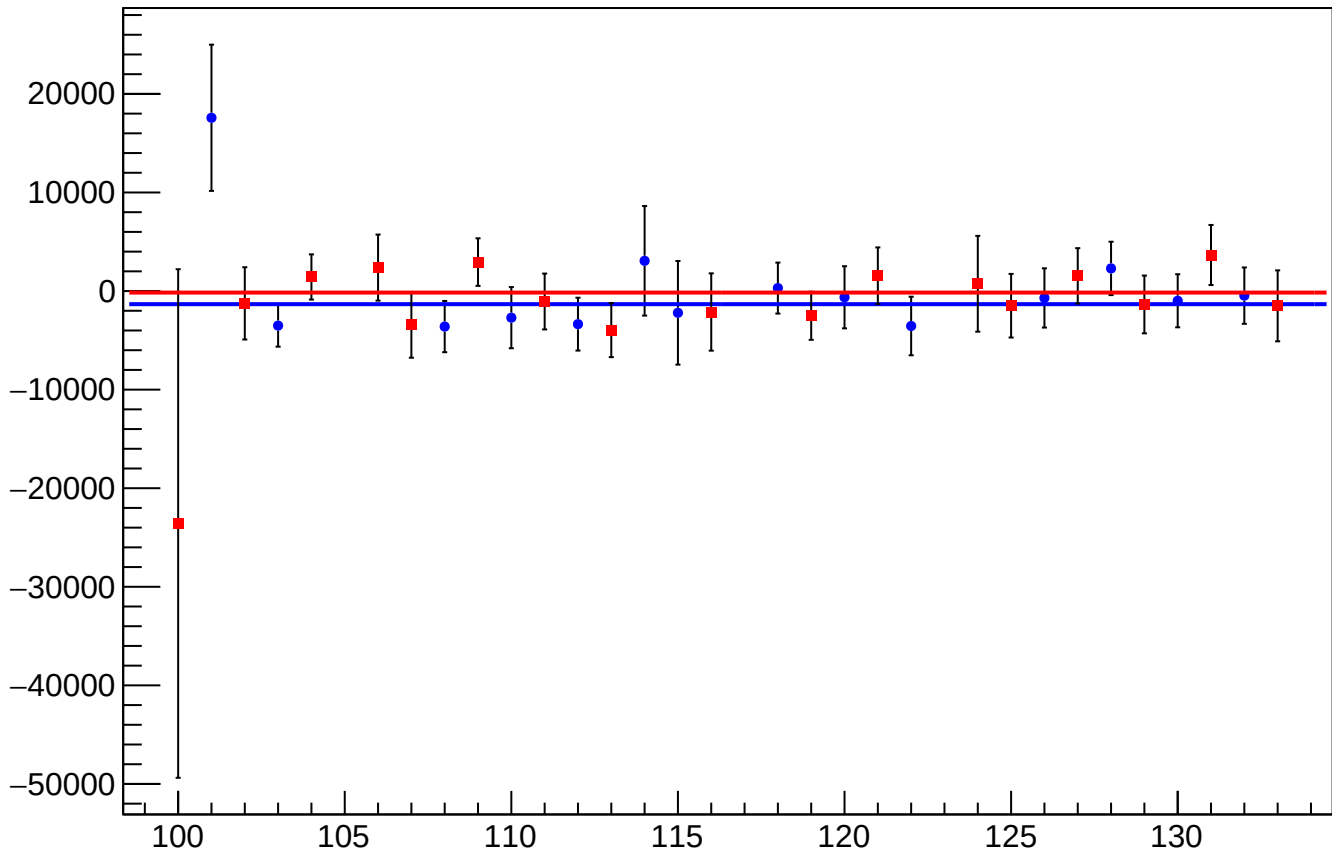
All: 3724.627+/-0.771  $\chi^2/\text{NDF}$ : 1953954.3/30

- 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\_atr\_dd\_mean vs Slug



Right In: -1330.627+/-798.553  $\chi^2/\text{NDF}$ : 12.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -153.487+/-746.343  $\chi^2/\text{NDF}$ : 10.6/16

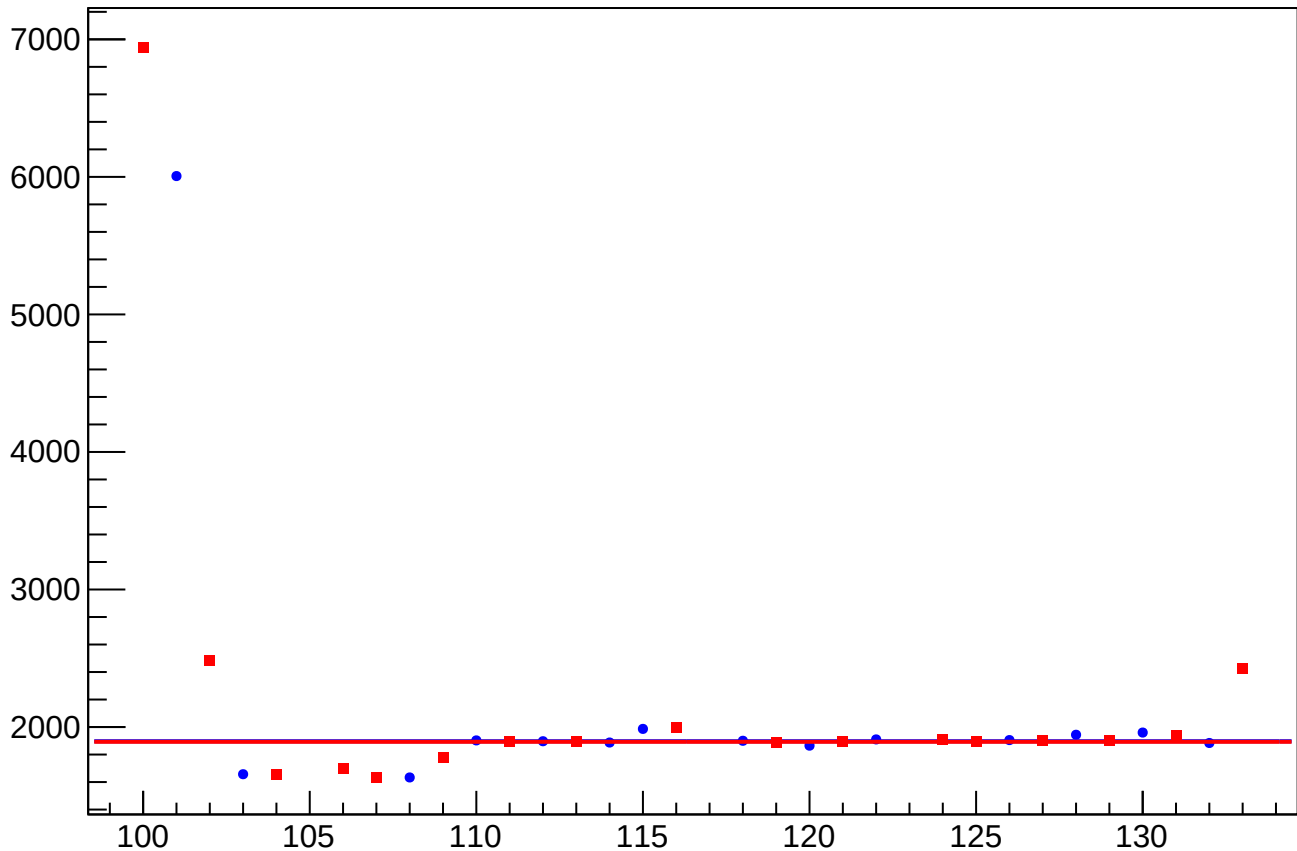
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -702.321+/-545.268  $\chi^2/\text{NDF}$ : 24.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atr\_dd\_rms vs Slug



Right In: 1896.857+/-0.565  $\chi^2/\text{NDF}$ : 662322.6/13

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

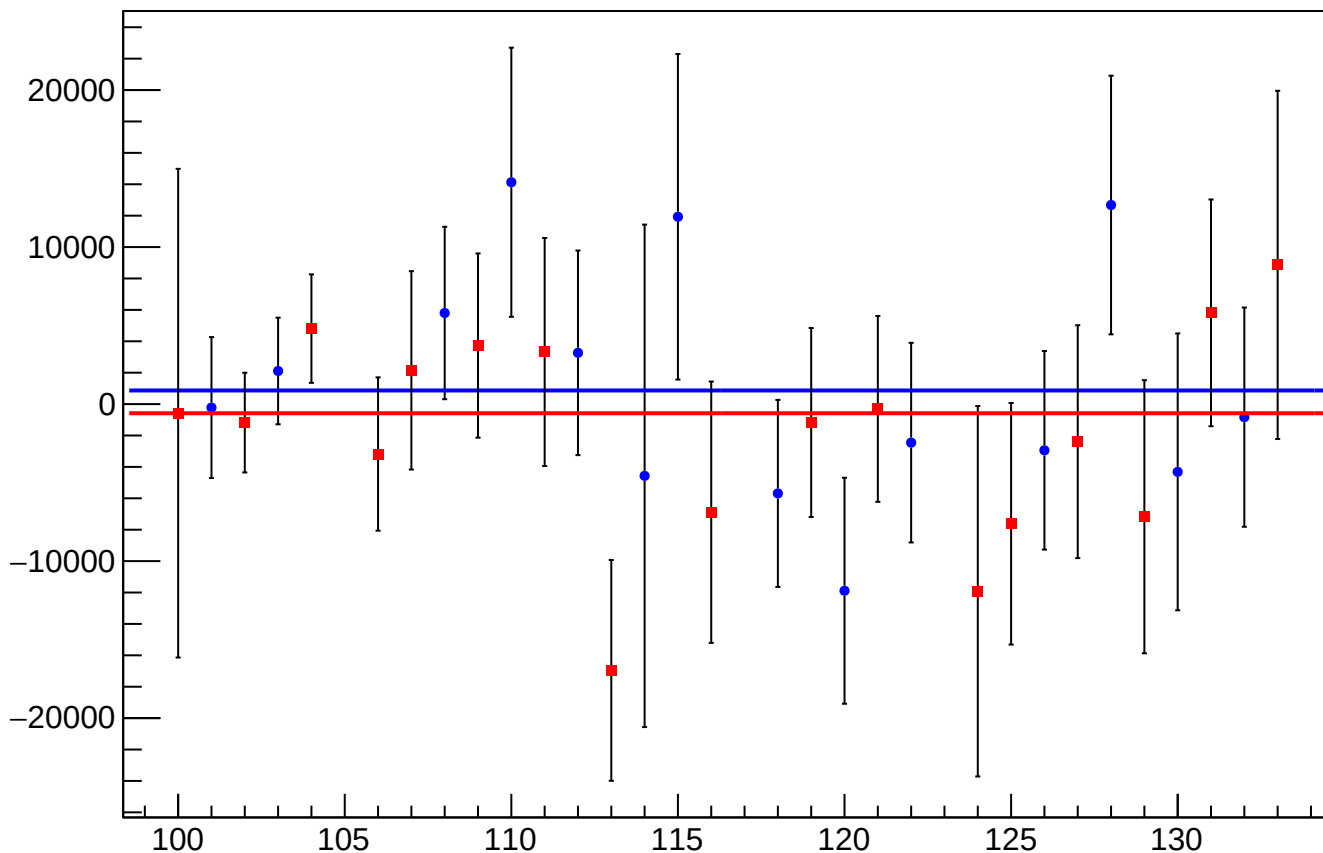
Right Out: 1892.749+/-0.527  $\chi^2/\text{NDF}$ : 219538.1/16

All: 1894.662+/-0.385  $\chi^2/\text{NDF}$ : 881888.9/30

- 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\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 867.746 $\pm$ 1654.205  $\chi^2$ /NDF: 12.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -582.596 $\pm$ 1449.775  $\chi^2$ /NDF: 13.7/16

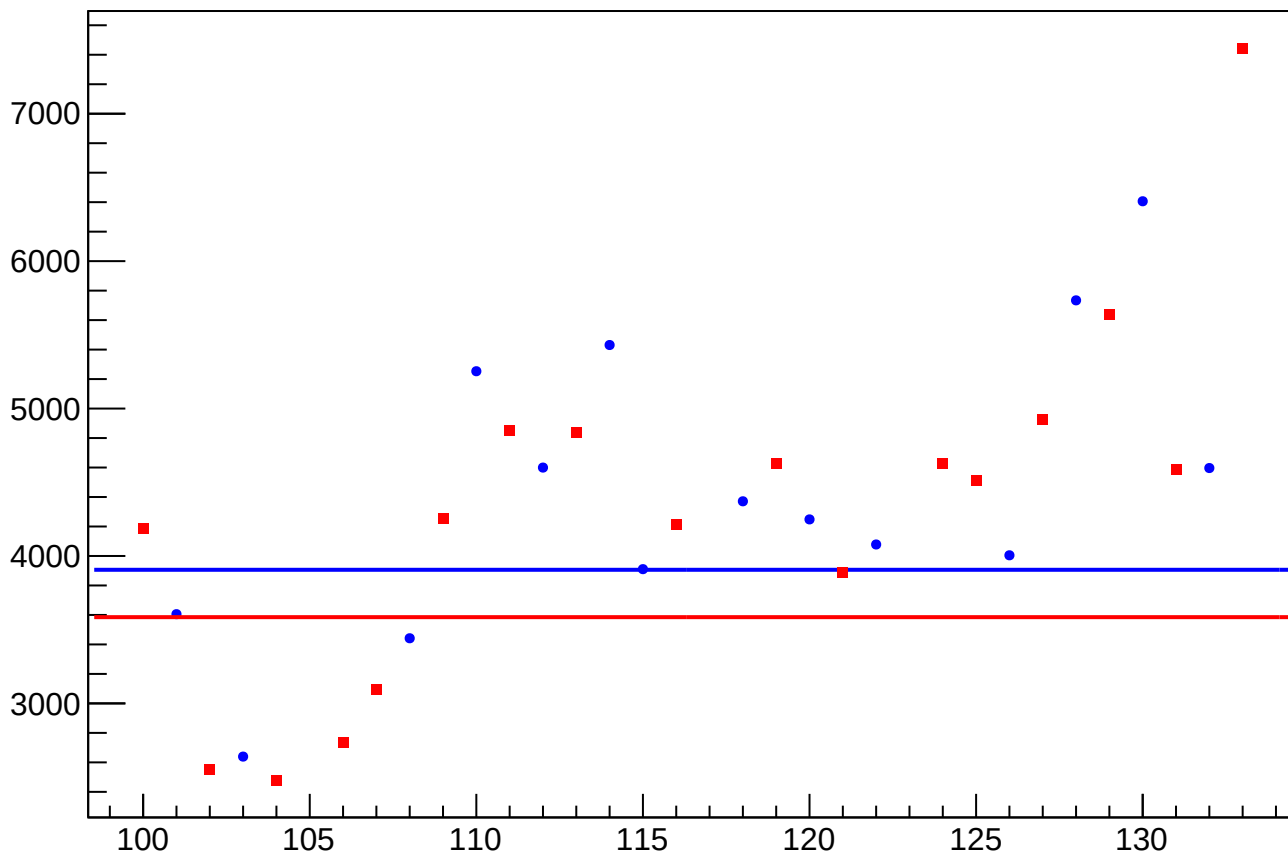
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.467 $\pm$ 1090.300  $\chi^2$ /NDF: 26.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 3906.347+/-1.170  $\chi^2/\text{NDF}$ : 689697.6/13

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

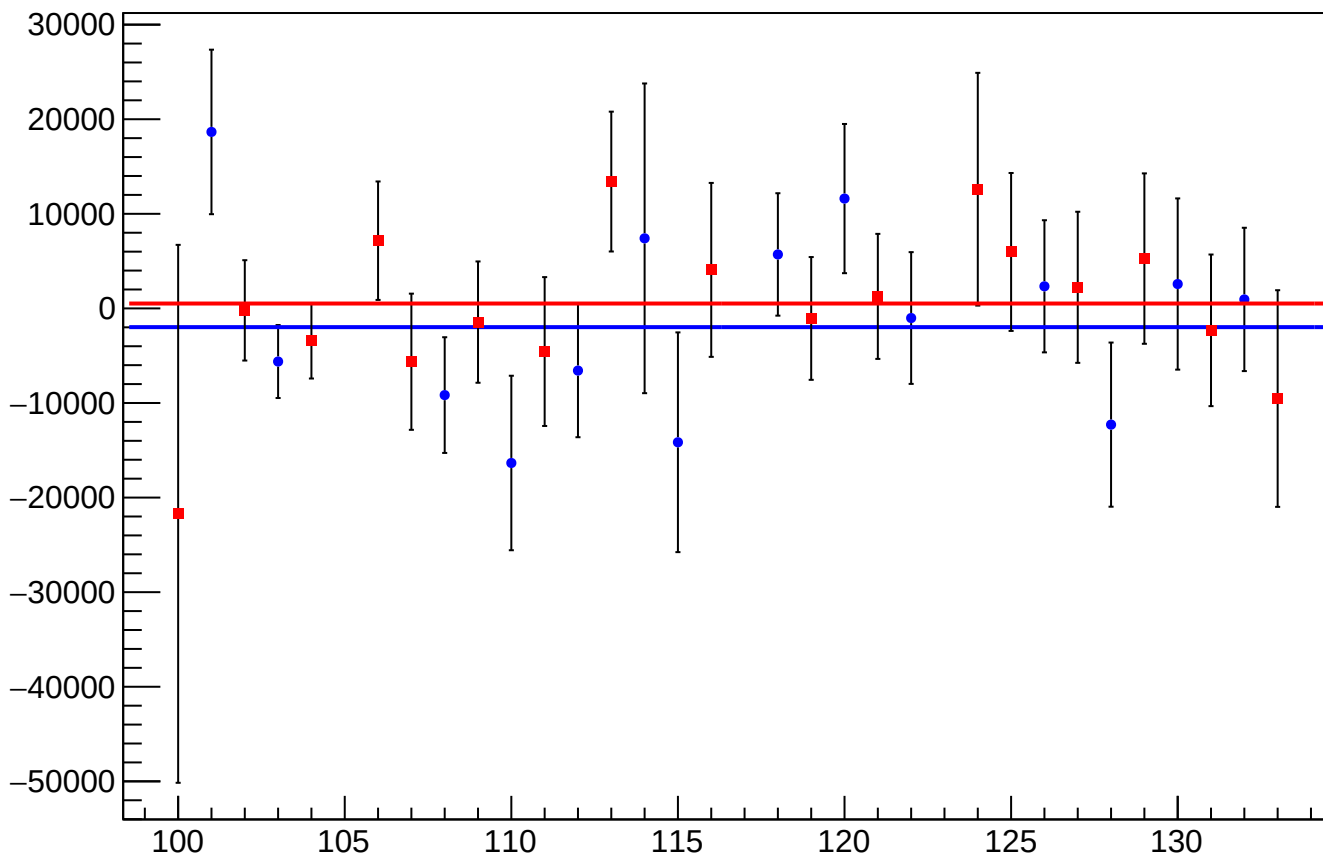
Right Out: 3585.036+/-1.025  $\chi^2/\text{NDF}$ : 1221563.5/16

All: 3724.621+/-0.771  $\chi^2/\text{NDF}$ : 1953938.0/30

- 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\_dd\_mean vs Slug



Right In: -1979.963+/-1909.856  $\chi^2/\text{NDF}$ : 18.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 515.836+/-1730.492  $\chi^2/\text{NDF}$ : 9.9/16

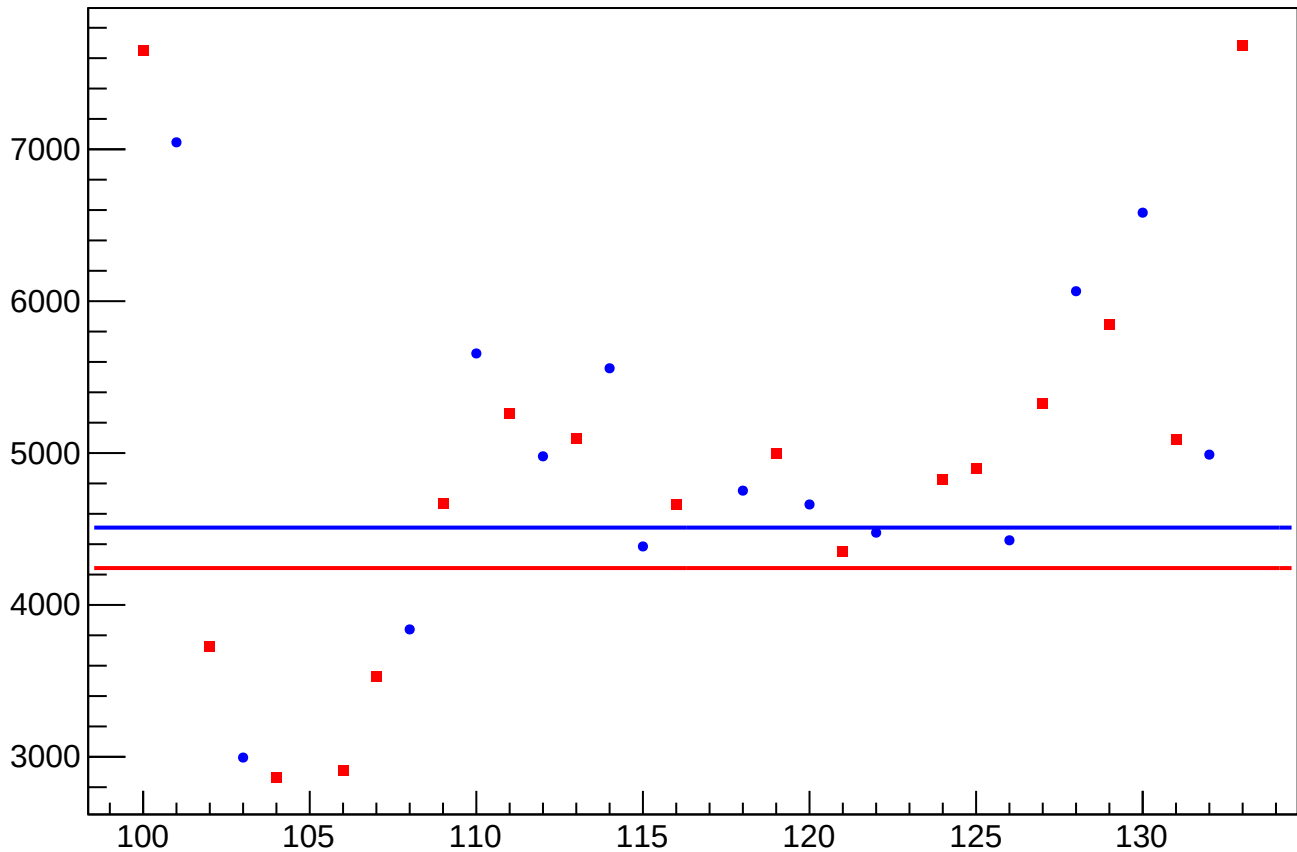
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -609.391+/-1282.377  $\chi^2/\text{NDF}$ : 29.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_rms vs Slug



Right In: 4509.291+/-1.350  $\chi^2/\text{NDF}$ : 731722.8/13

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

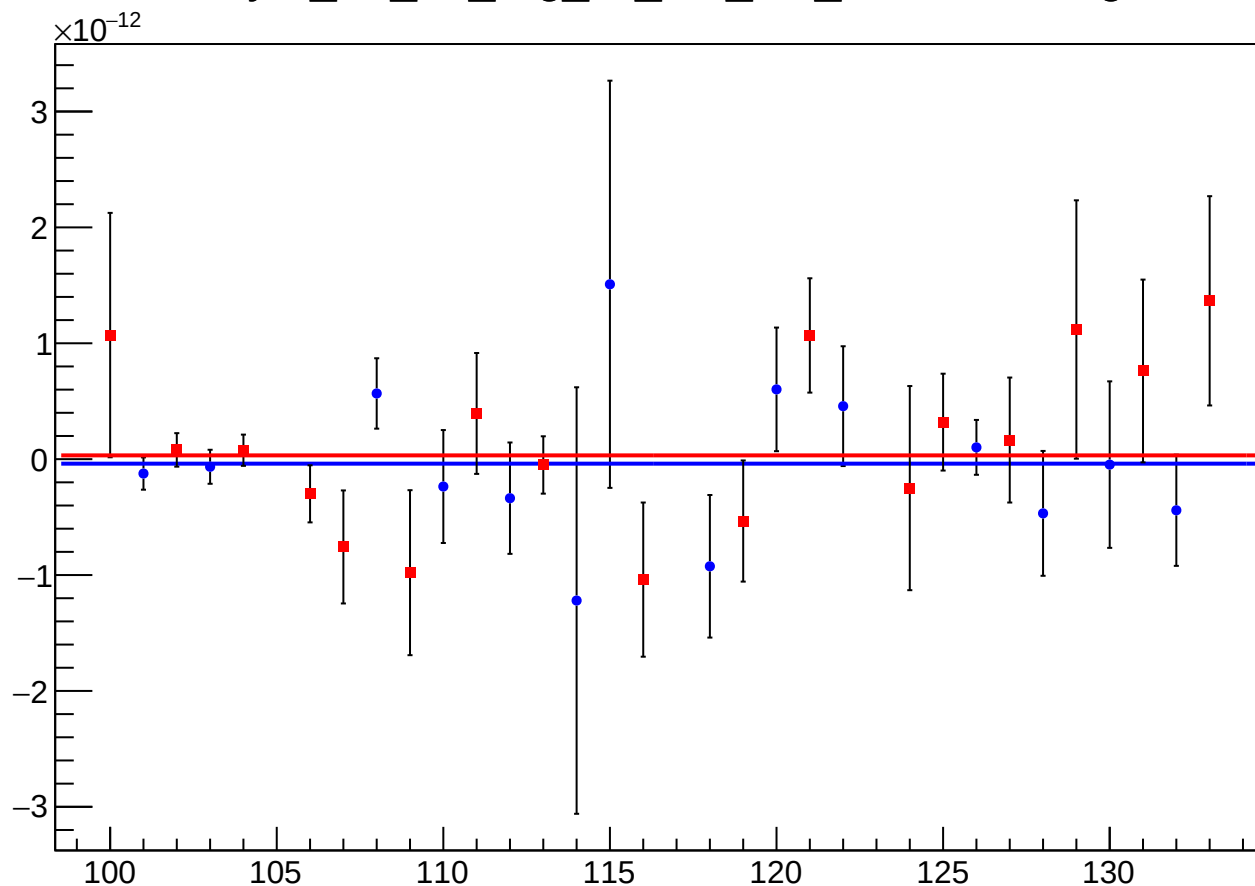
Right Out: 4242.776+/-1.212  $\chi^2/\text{NDF}$ : 838957.1/16

All: 4361.707+/-0.902  $\chi^2/\text{NDF}$ : 1592247.0/30

- 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\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 12.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 21.0/16

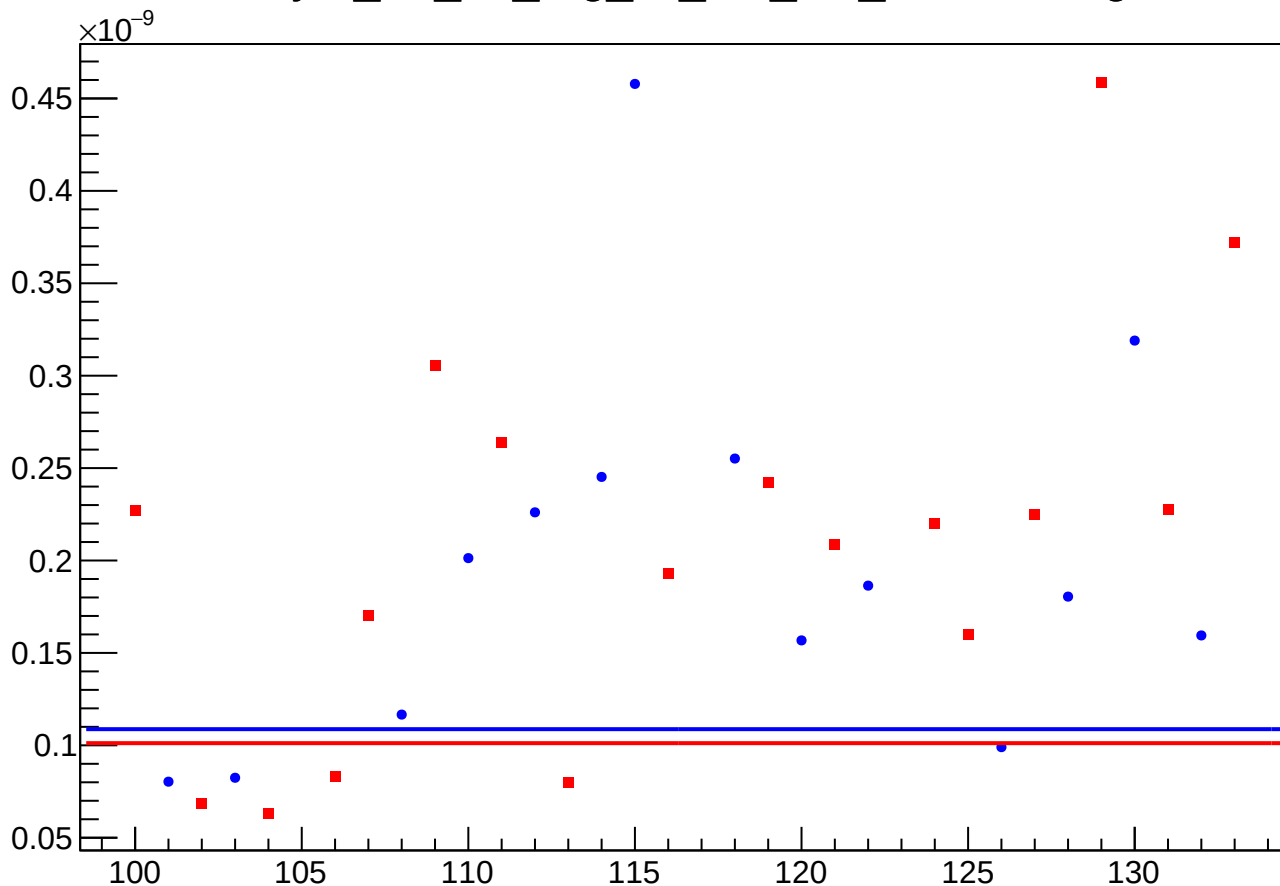
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 33.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 837213.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1613585.4/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

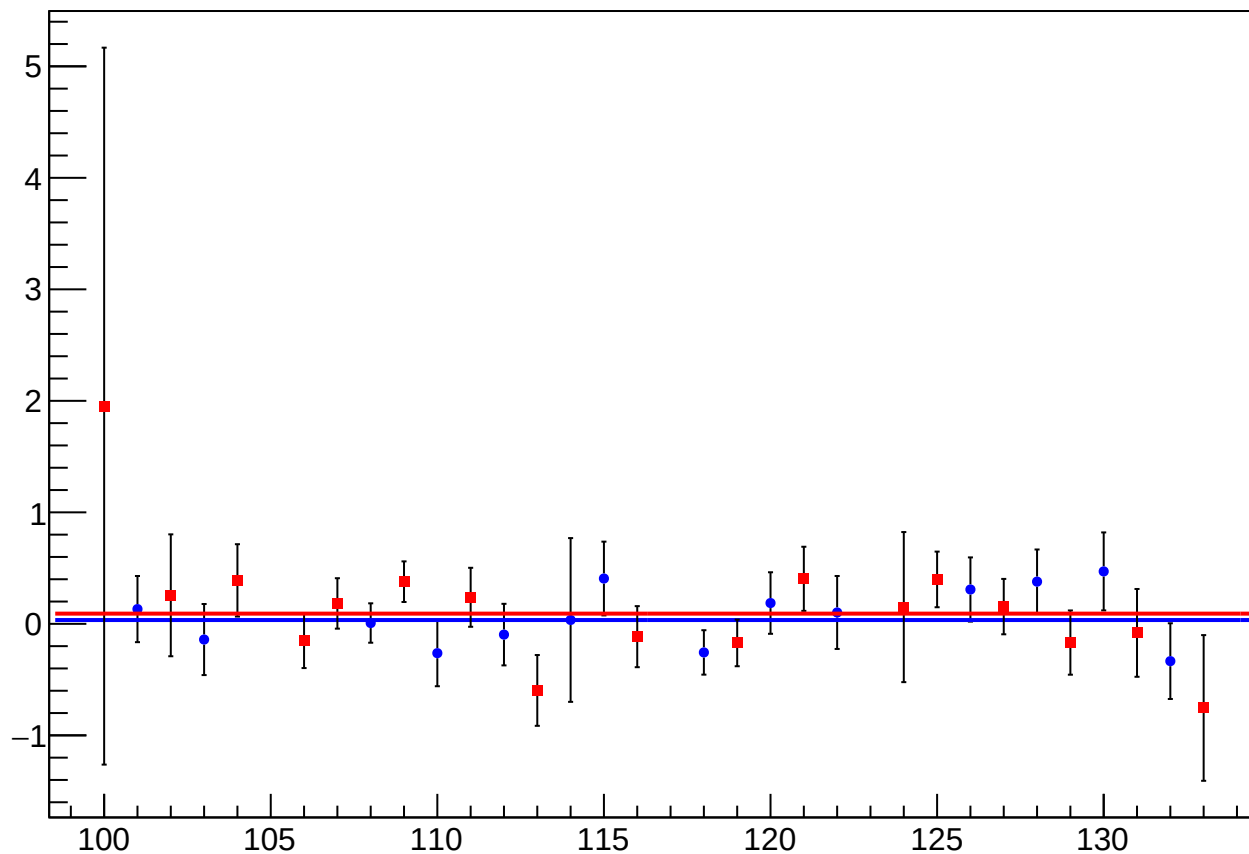
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2460122.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_atr\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.034+/-0.075  $\chi^2/\text{NDF}$ : 10.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.092+/-0.069  $\chi^2/\text{NDF}$ : 17.5/16

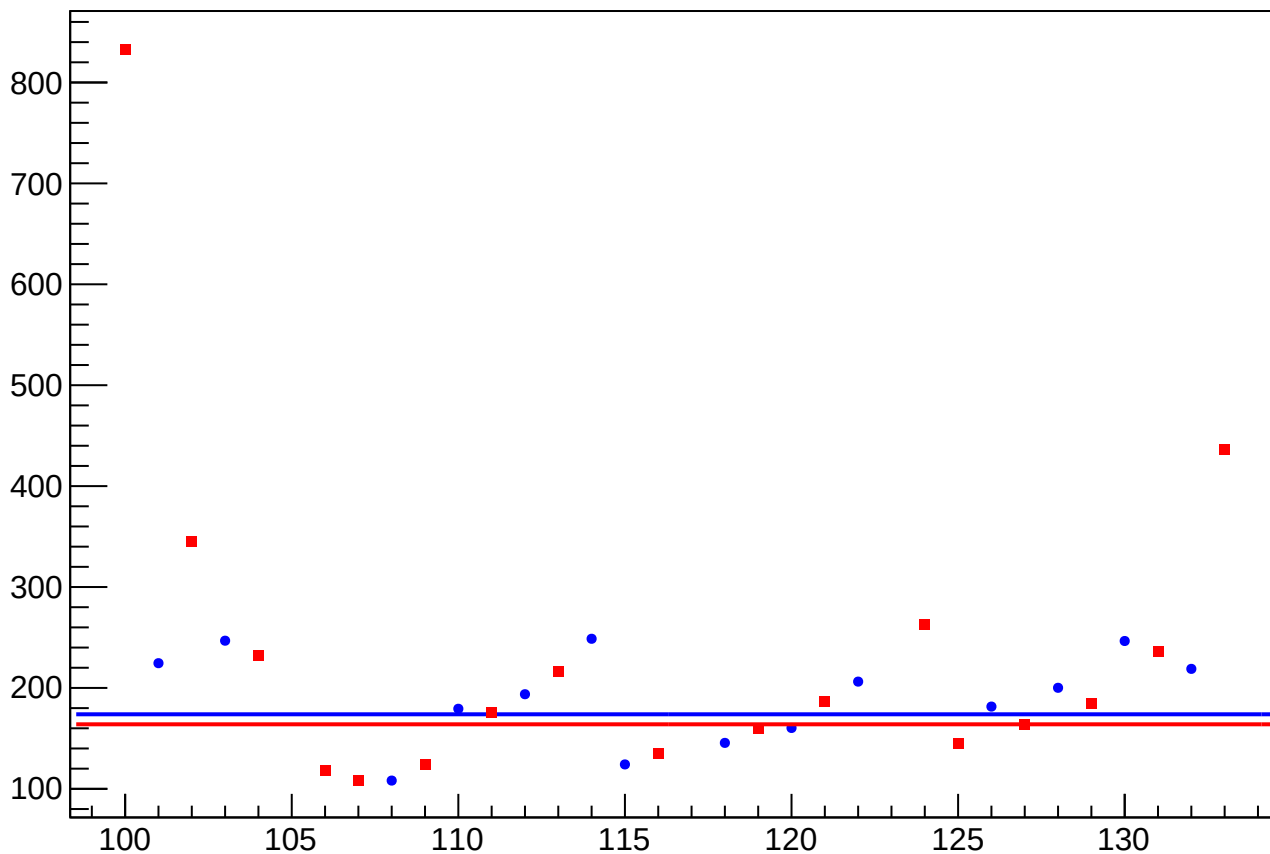
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.065+/-0.051  $\chi^2/\text{NDF}$ : 28.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 173.880+/-0.053  $\chi^2/\text{NDF}$ : 720826.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 163.956+/-0.049  $\chi^2/\text{NDF}$ : 1253869.1/16

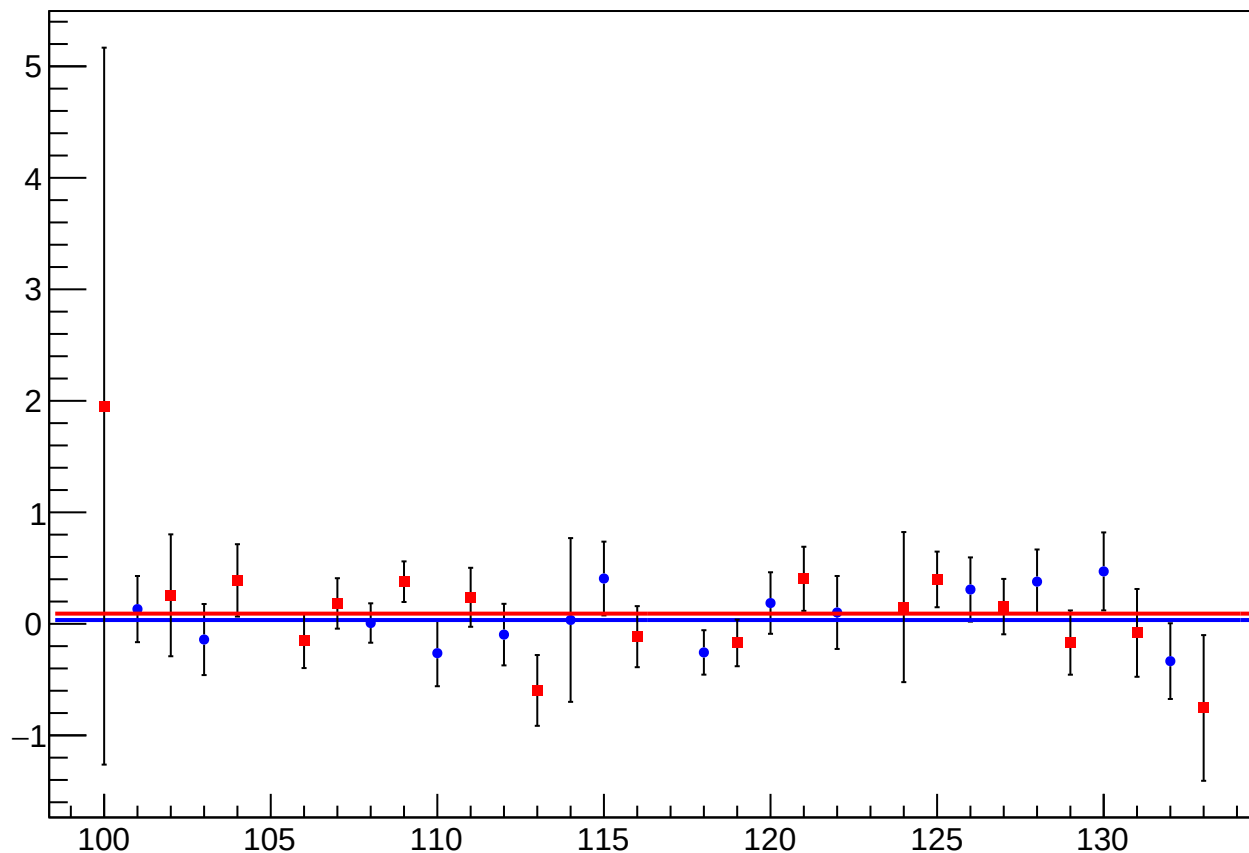
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 168.531+/-0.036  $\chi^2/\text{NDF}$ : 1993525.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.034+/-0.075  $\chi^2/\text{NDF}$ : 10.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.092+/-0.069  $\chi^2/\text{NDF}$ : 17.5/16

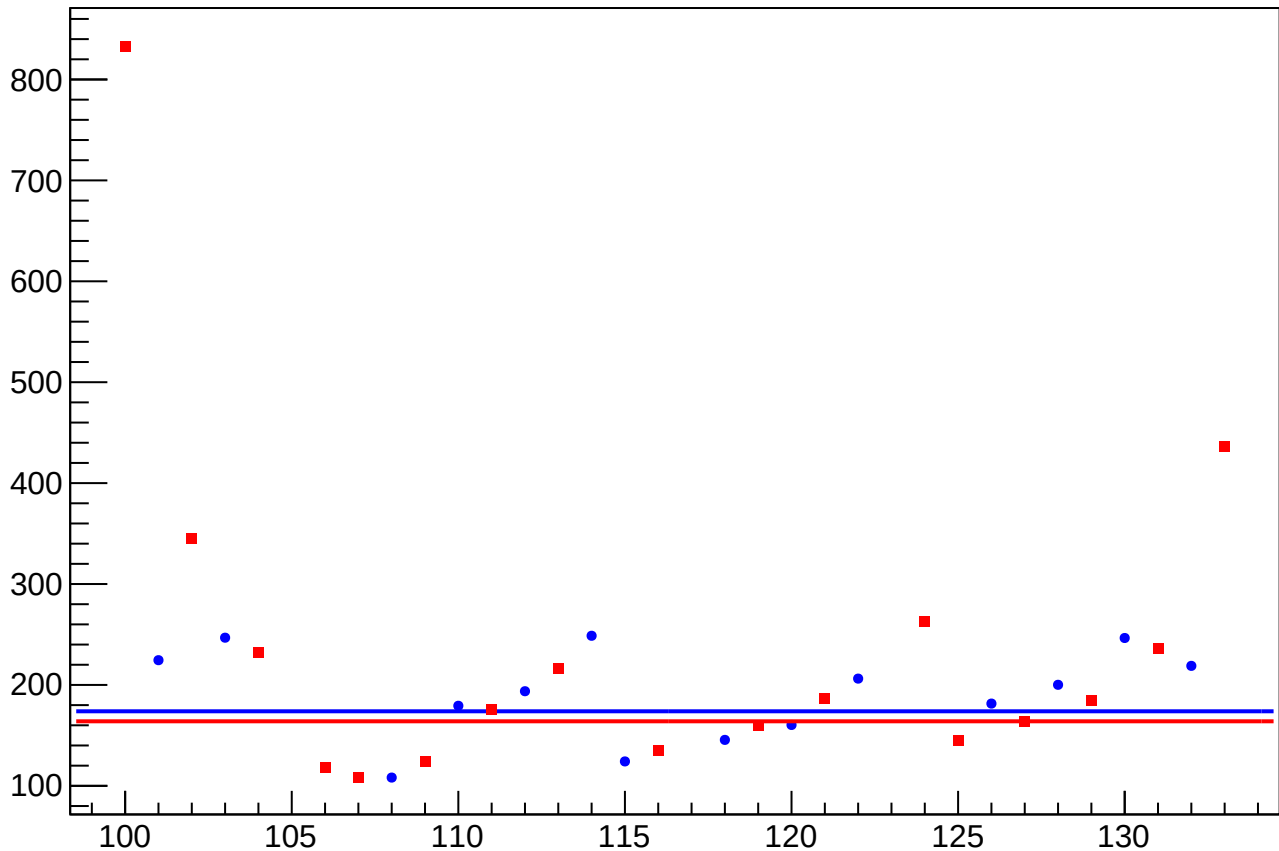
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.065+/-0.051  $\chi^2/\text{NDF}$ : 28.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 173.880+/-0.053  $\chi^2/\text{NDF}$ : 720826.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 163.956+/-0.049  $\chi^2/\text{NDF}$ : 1253869.1/16

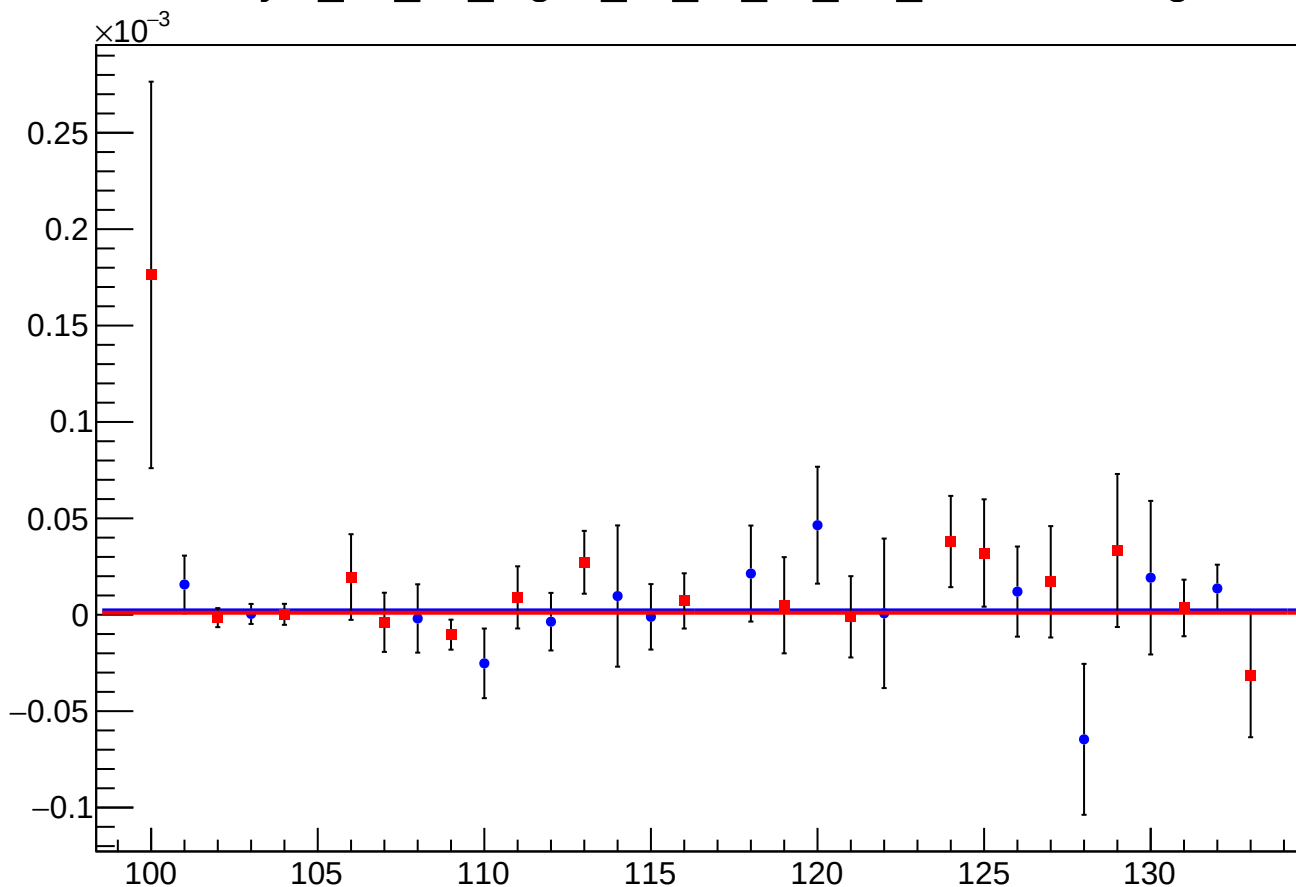
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 168.531+/-0.036  $\chi^2/\text{NDF}$ : 1993525.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.0/16

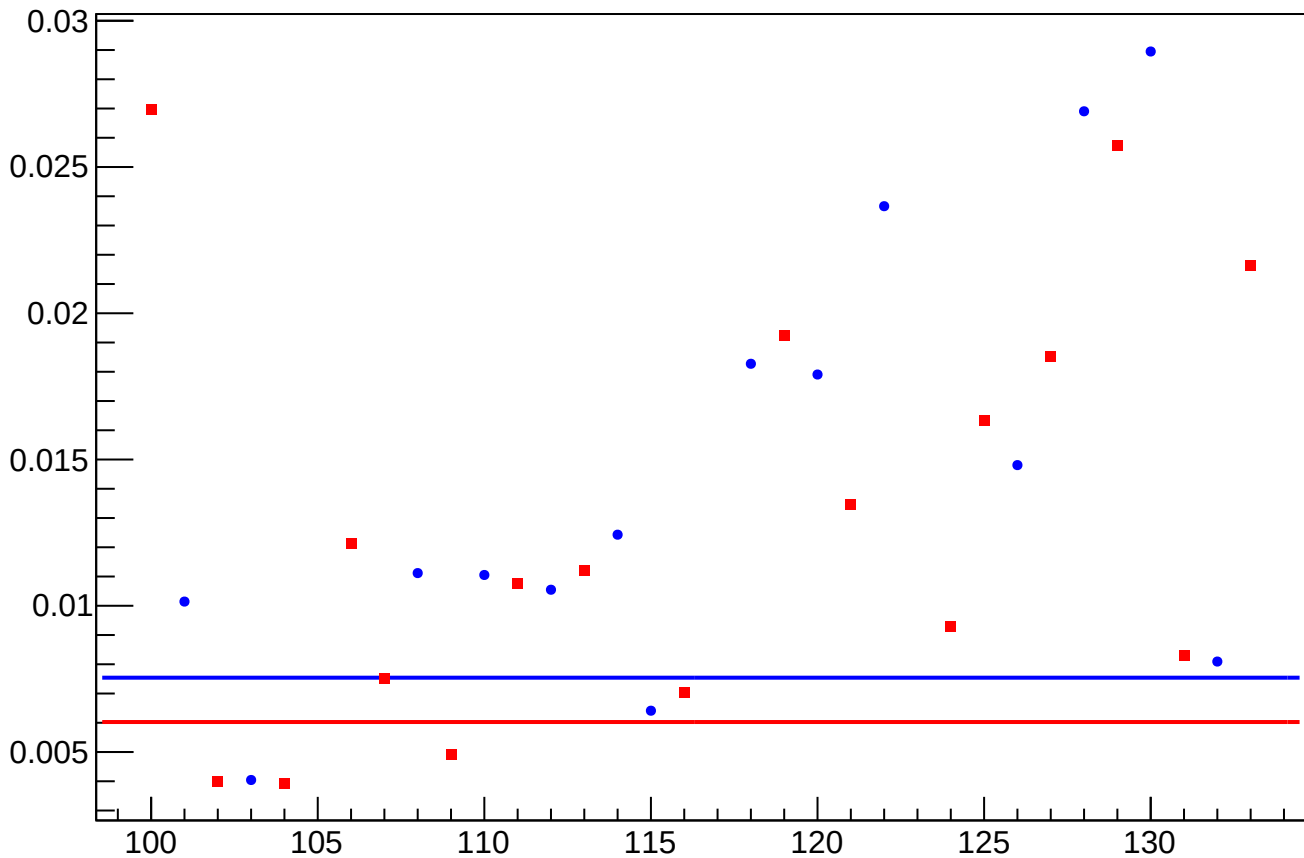
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 25.4/30

- 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: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 3463116.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 3833953.4/16

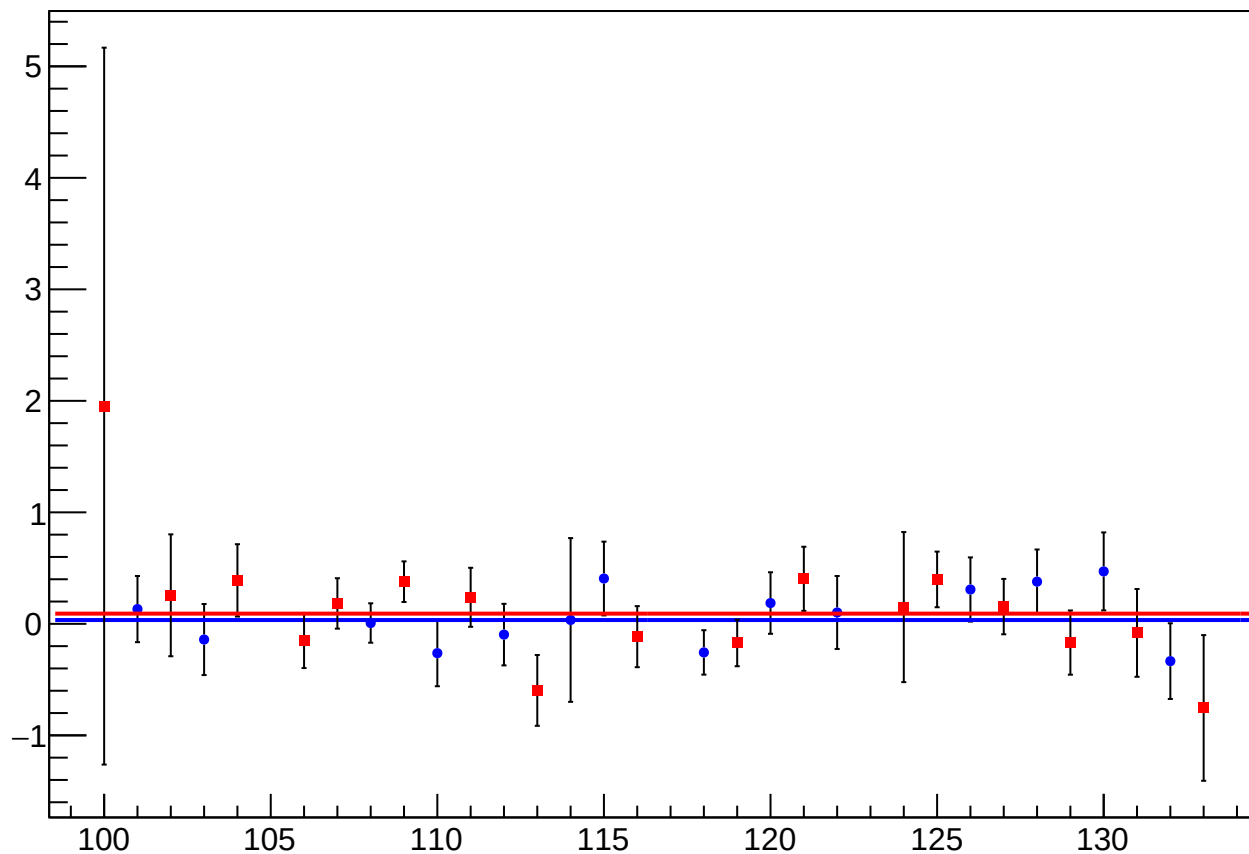
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 7501997.2/30

- 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: 0.034 $\pm$ 0.075  $\chi^2$ /NDF: 10.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.092 $\pm$ 0.069  $\chi^2$ /NDF: 17.5/16

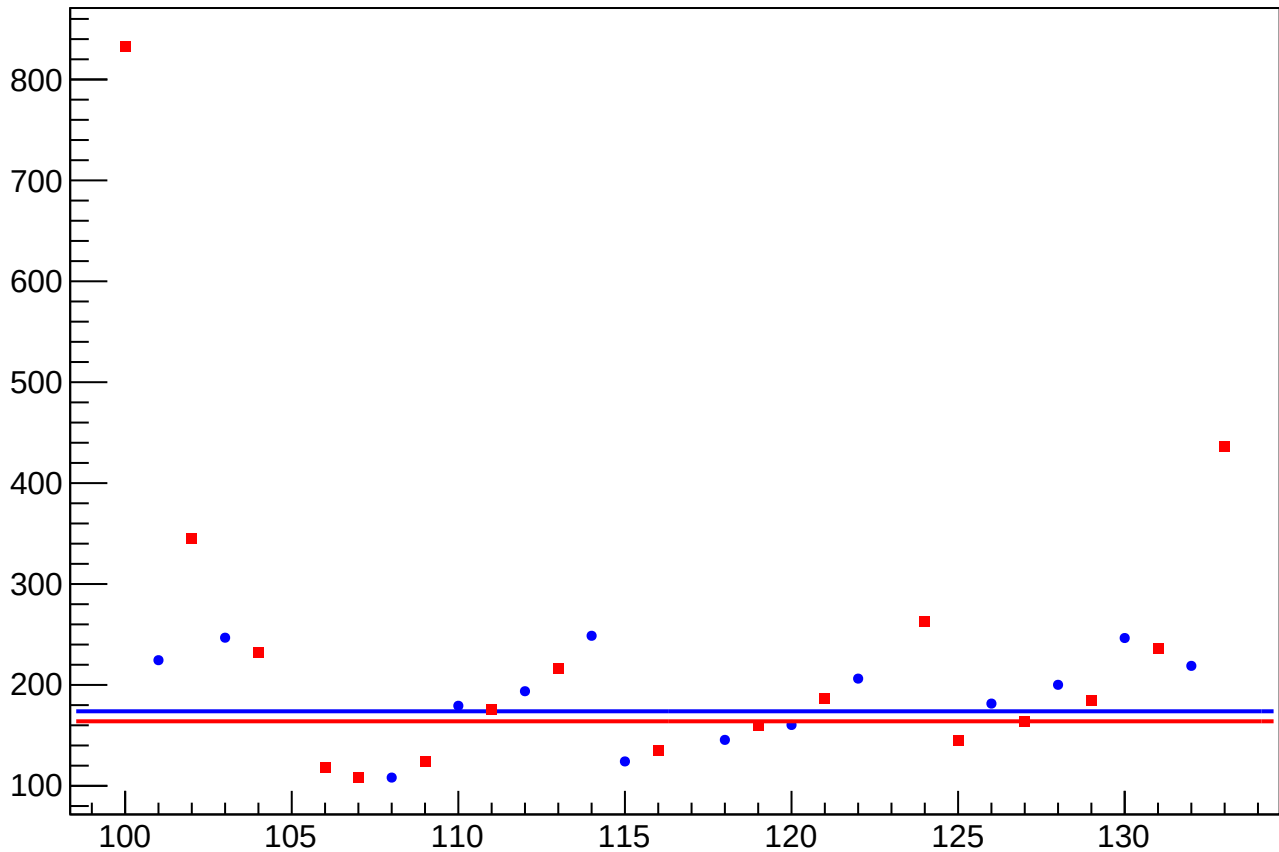
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.065 $\pm$ 0.051  $\chi^2$ /NDF: 28.3/30

- 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: 173.877+/-0.053  $\chi^2/\text{NDF}$ : 720846.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 163.955+/-0.049  $\chi^2/\text{NDF}$ : 1253851.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

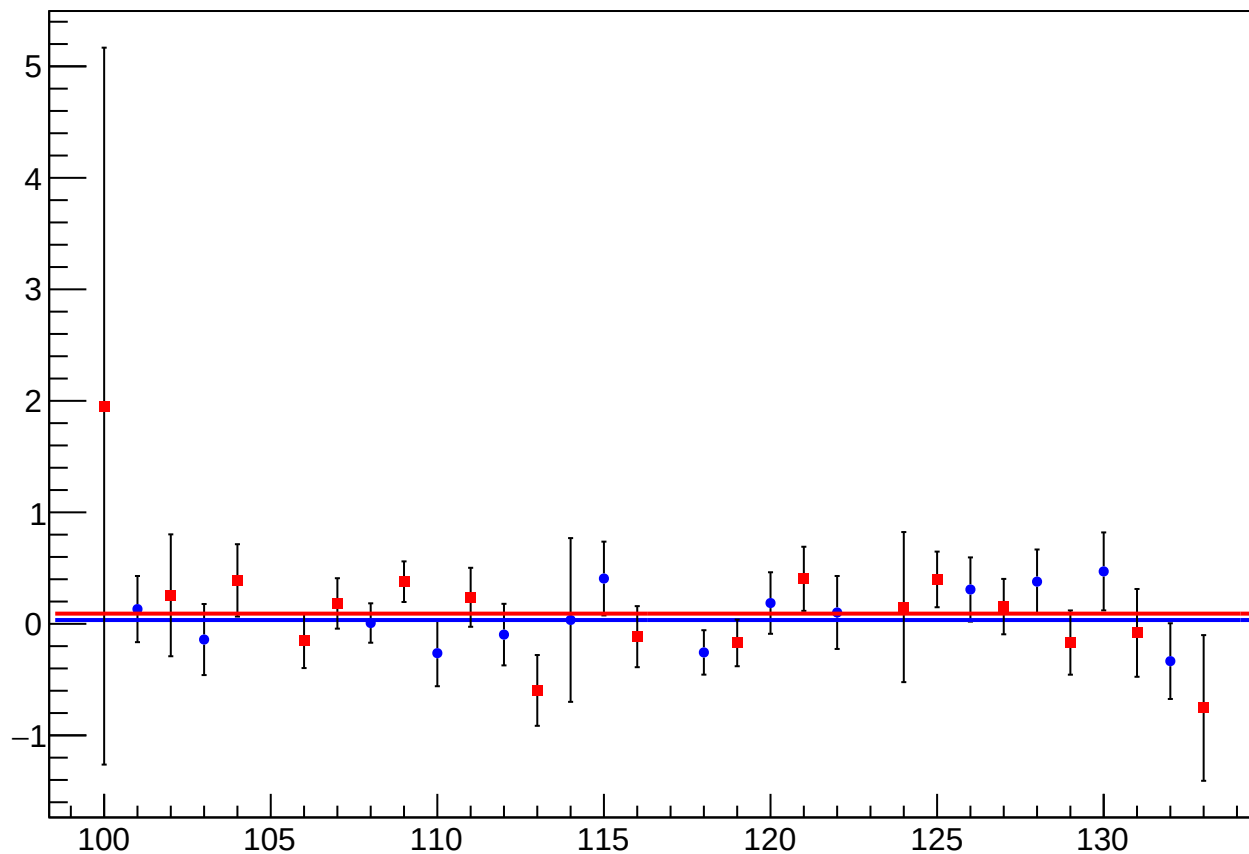
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 168.529+/-0.036  $\chi^2/\text{NDF}$ : 1993517.3/30

- 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: 0.034 $\pm$ 0.075  $\chi^2$ /NDF: 10.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.092 $\pm$ 0.069  $\chi^2$ /NDF: 17.5/16

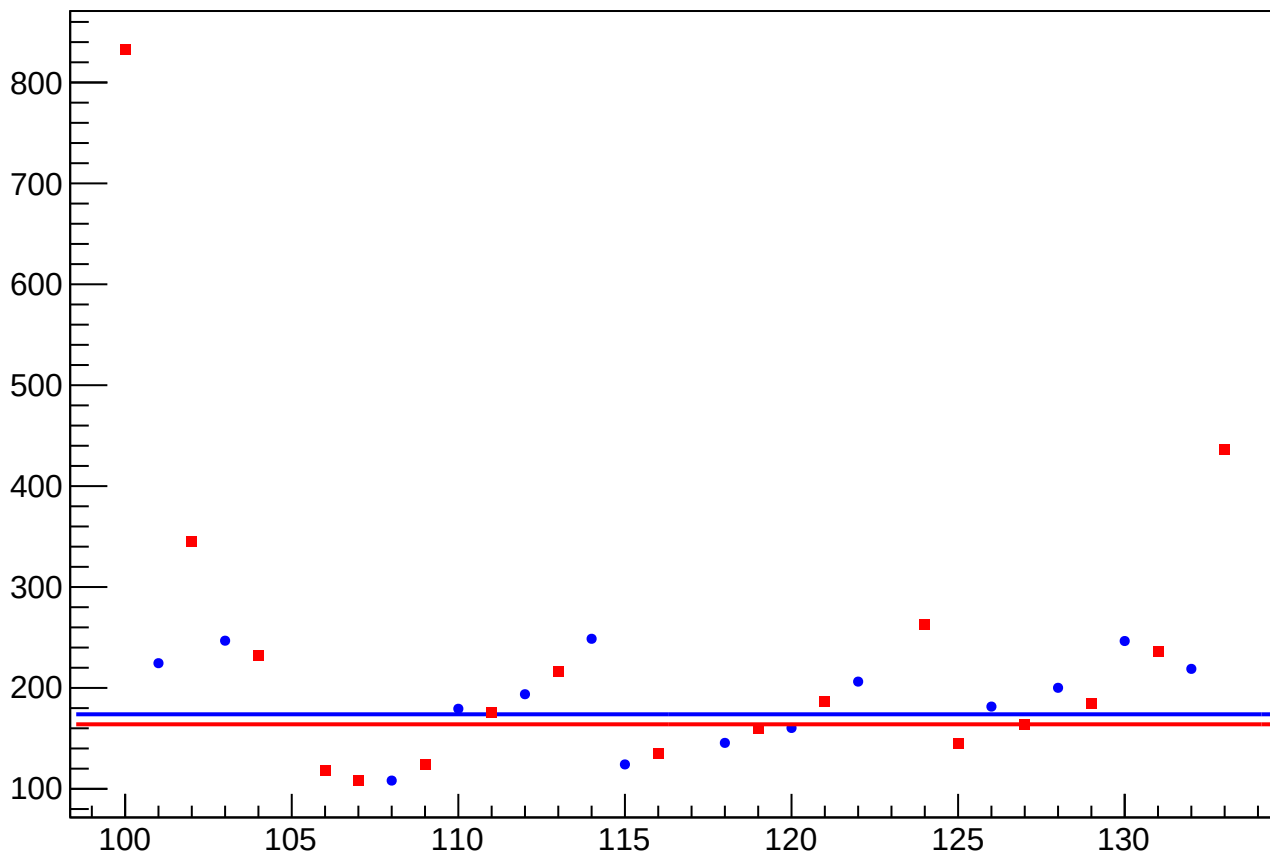
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.065 $\pm$ 0.051  $\chi^2$ /NDF: 28.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 173.877+/-0.053  $\chi^2/\text{NDF}$ : 720846.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 163.955+/-0.049  $\chi^2/\text{NDF}$ : 1253851.7/16

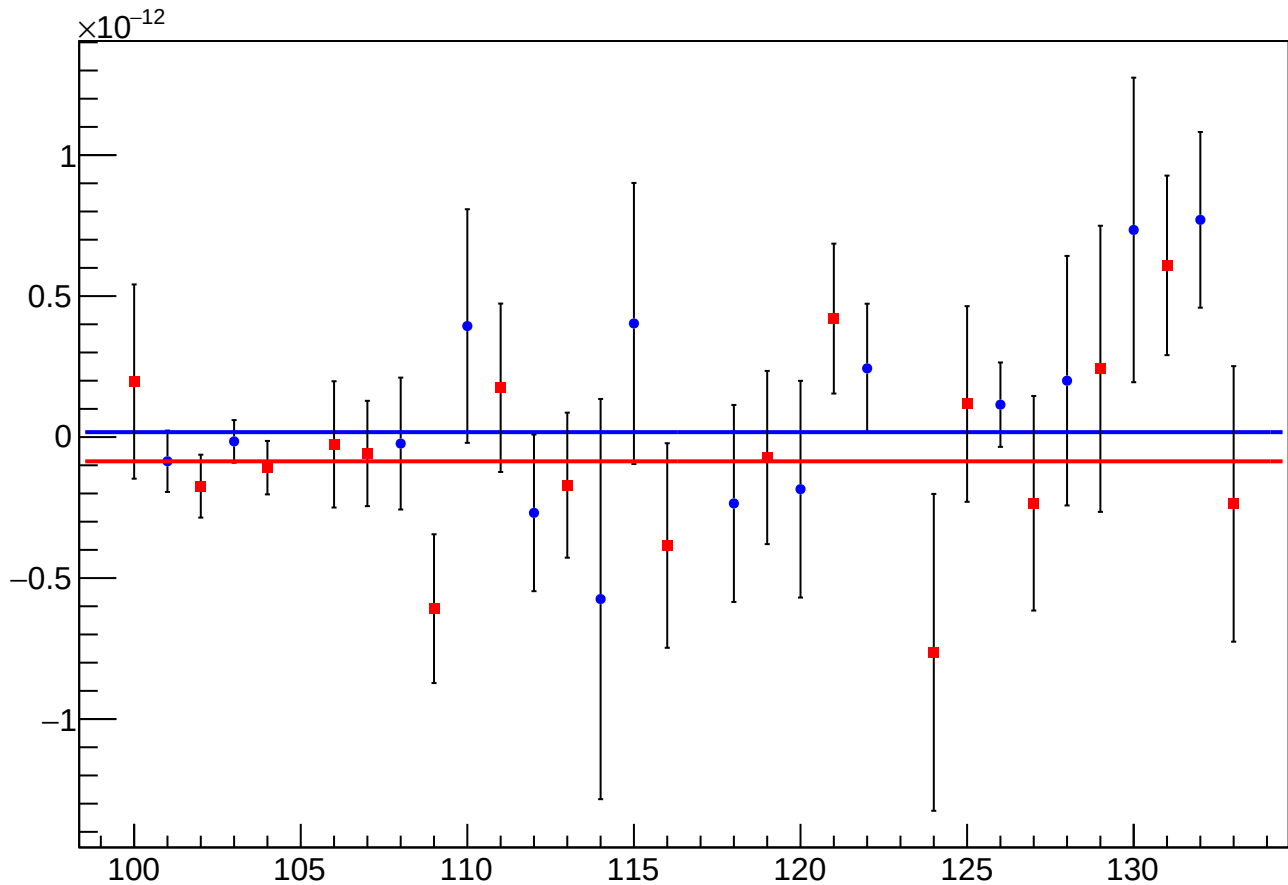
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 168.529+/-0.036  $\chi^2/\text{NDF}$ : 1993517.3/30

- 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  $\chi^2/\text{NDF}$ : 14.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.8/16

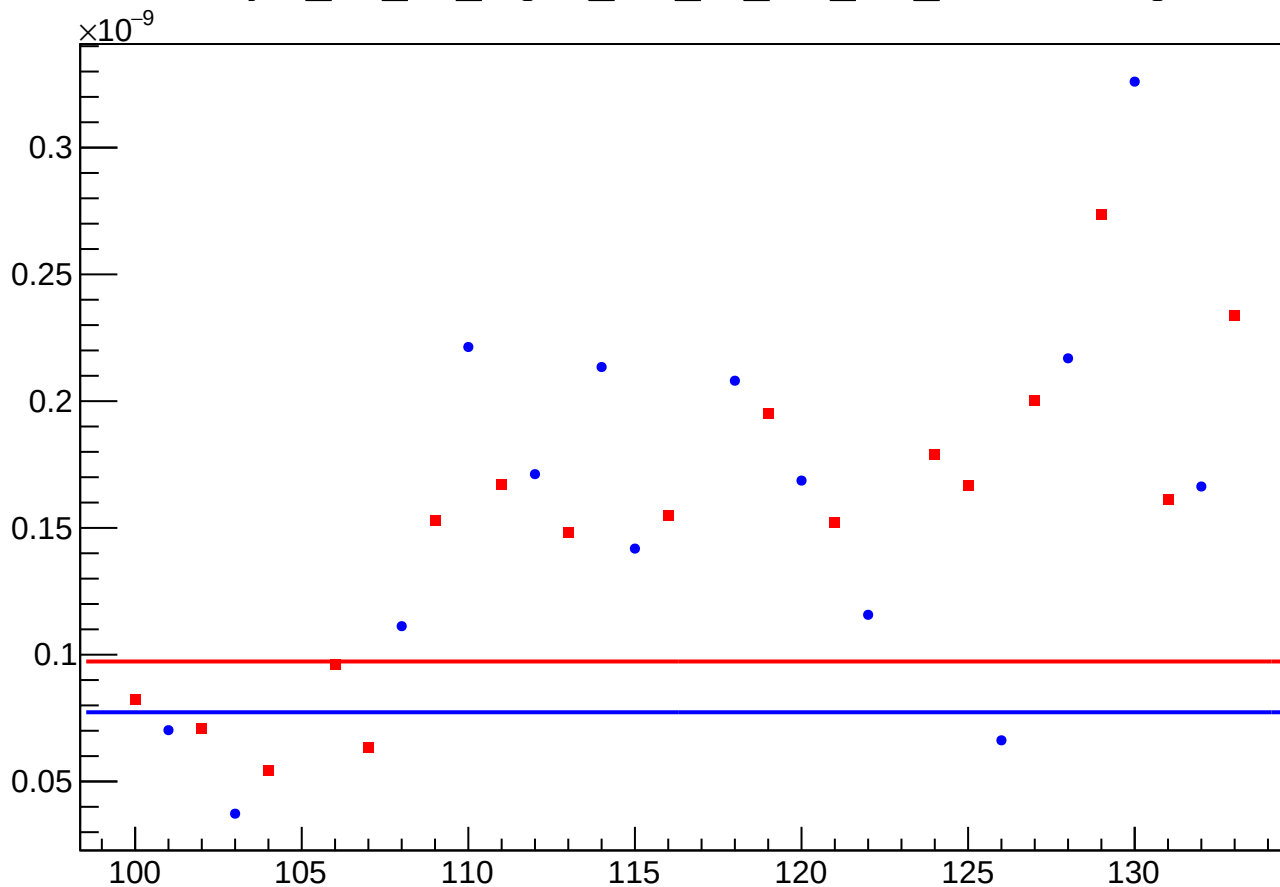
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 34.1/30

- 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  $\chi^2/\text{NDF}$ : 2437289.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1957388.8/16

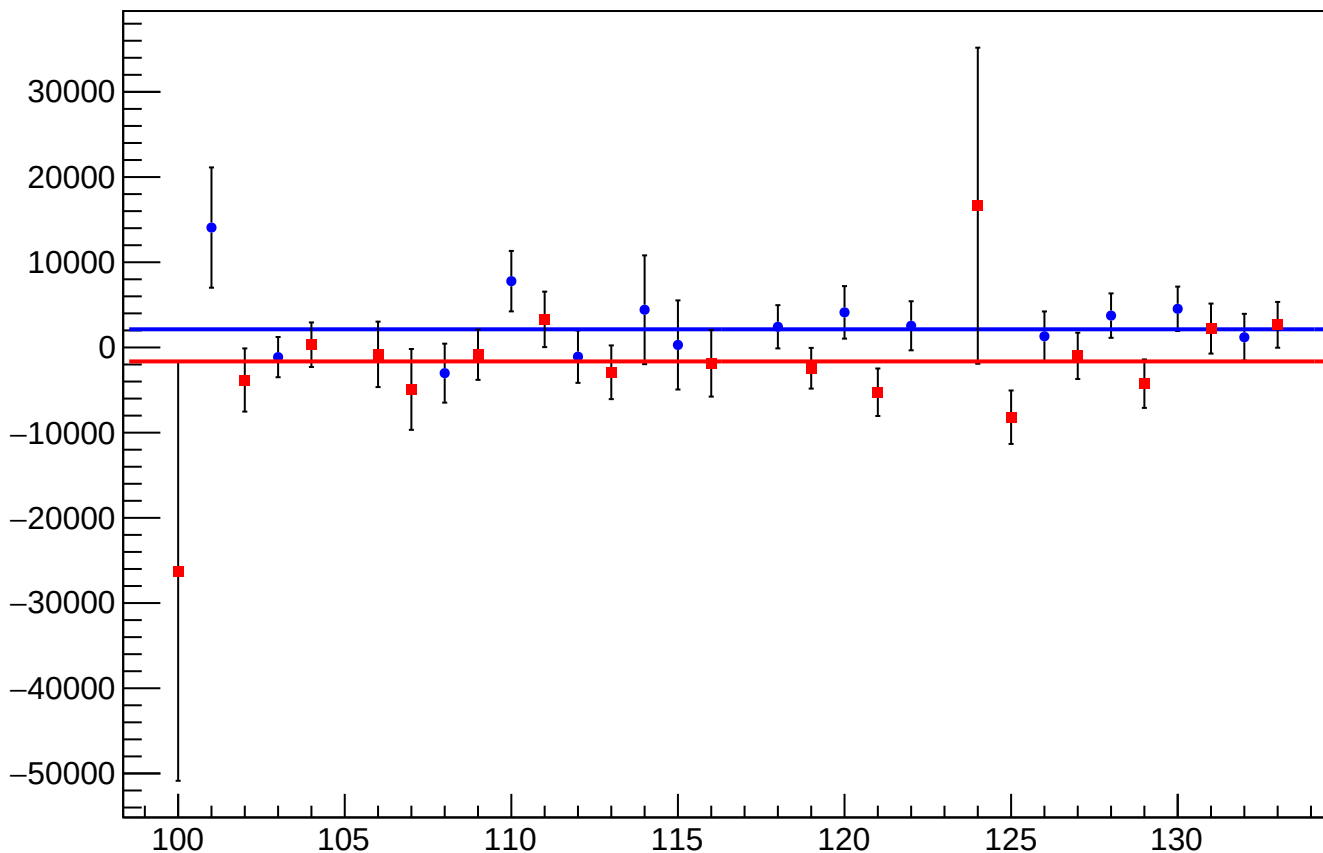
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4546329.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_mean vs Slug



Right In: 2131.058+/-828.989  $\chi^2/\text{NDF}$ : 12.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1638.626+/-783.202  $\chi^2/\text{NDF}$ : 17.3/16

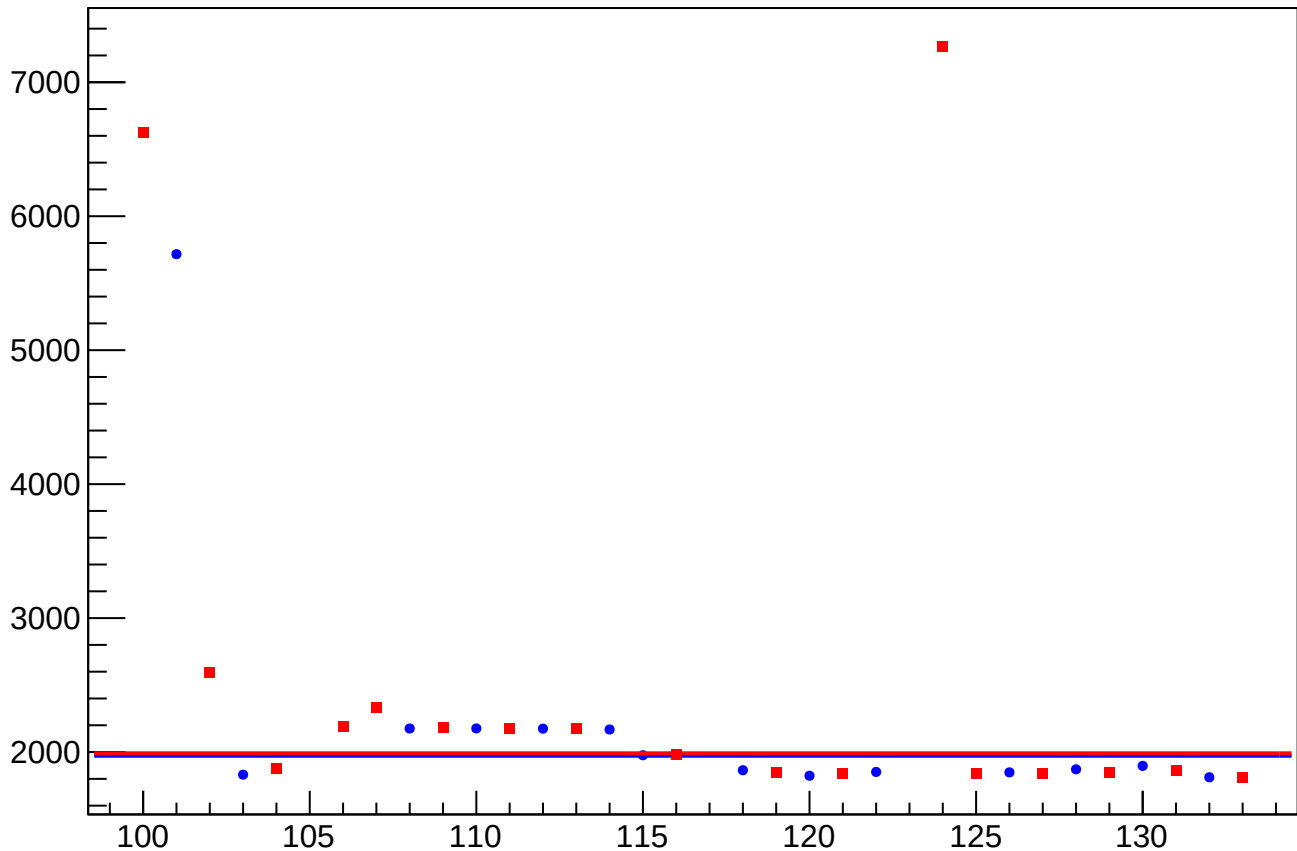
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 139.240+/-569.306  $\chi^2/\text{NDF}$ : 40.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_rms vs Slug



Right In: 1972.726+/-0.586  $\chi^2/\text{NDF}$ : 620758.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1990.702+/-0.554  $\chi^2/\text{NDF}$ : 368303.2/16

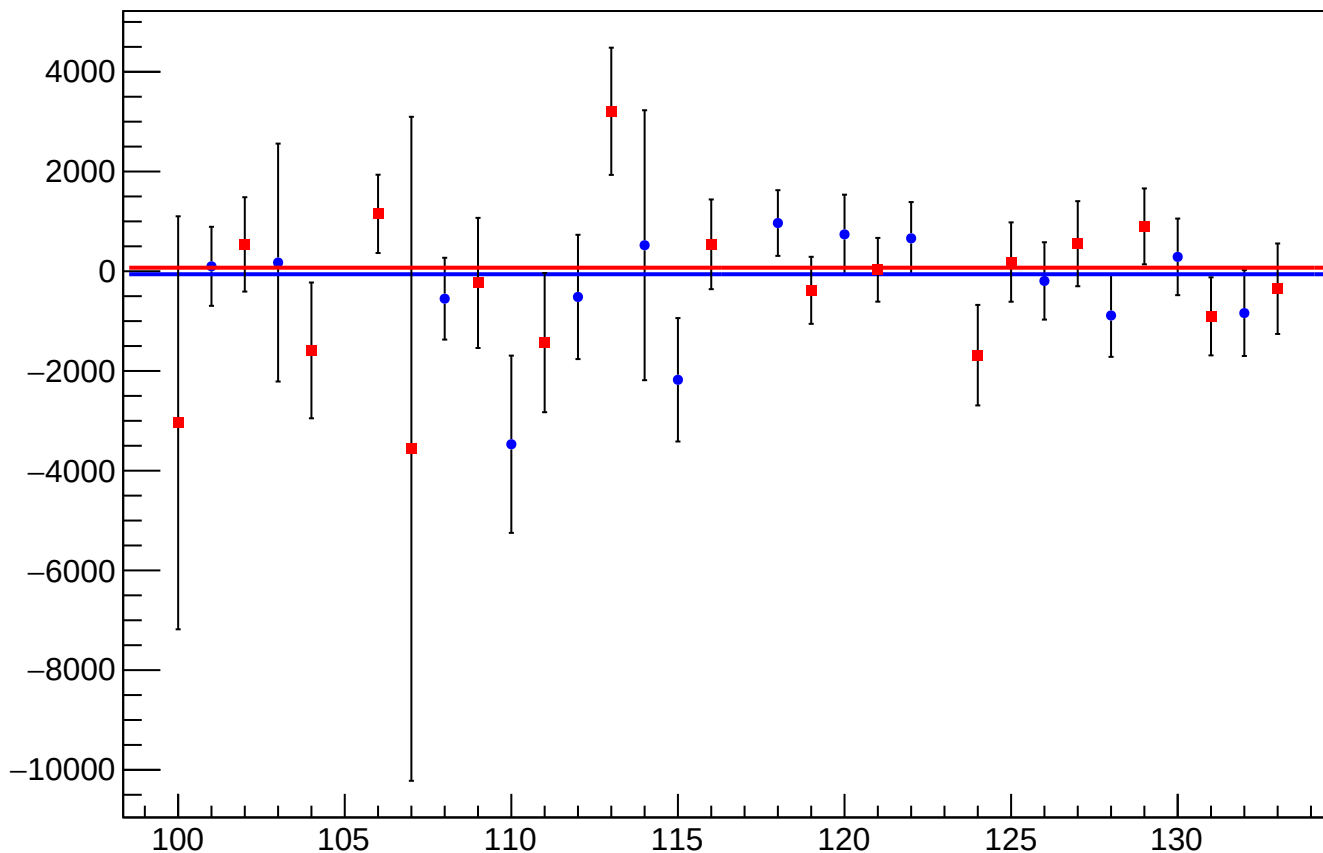
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1982.224+/-0.403  $\chi^2/\text{NDF}$ : 989558.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_reg\_correction\_mean vs Slug



Right In:  $-60.104 \pm 242.985$   $\chi^2/\text{NDF}$ : 13.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $71.230 \pm 226.584$   $\chi^2/\text{NDF}$ : 18.8/16

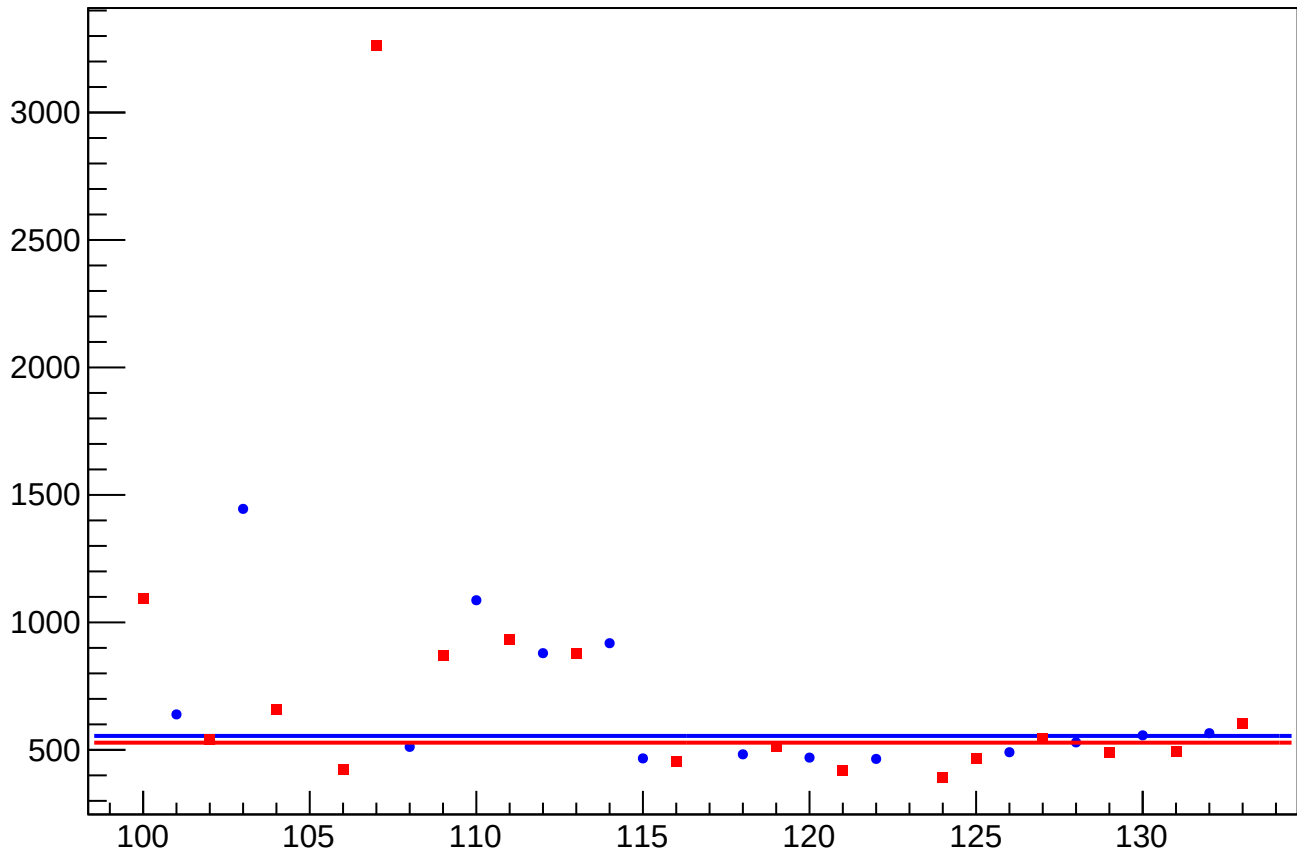
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $10.145 \pm 165.714$   $\chi^2/\text{NDF}$ : 32.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_reg\_correction\_rms vs Slug



Right In: 554.767+/-0.172  $\chi^2/\text{NDF}$ : 761457.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 528.293+/-0.160  $\chi^2/\text{NDF}$ : 1029232.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

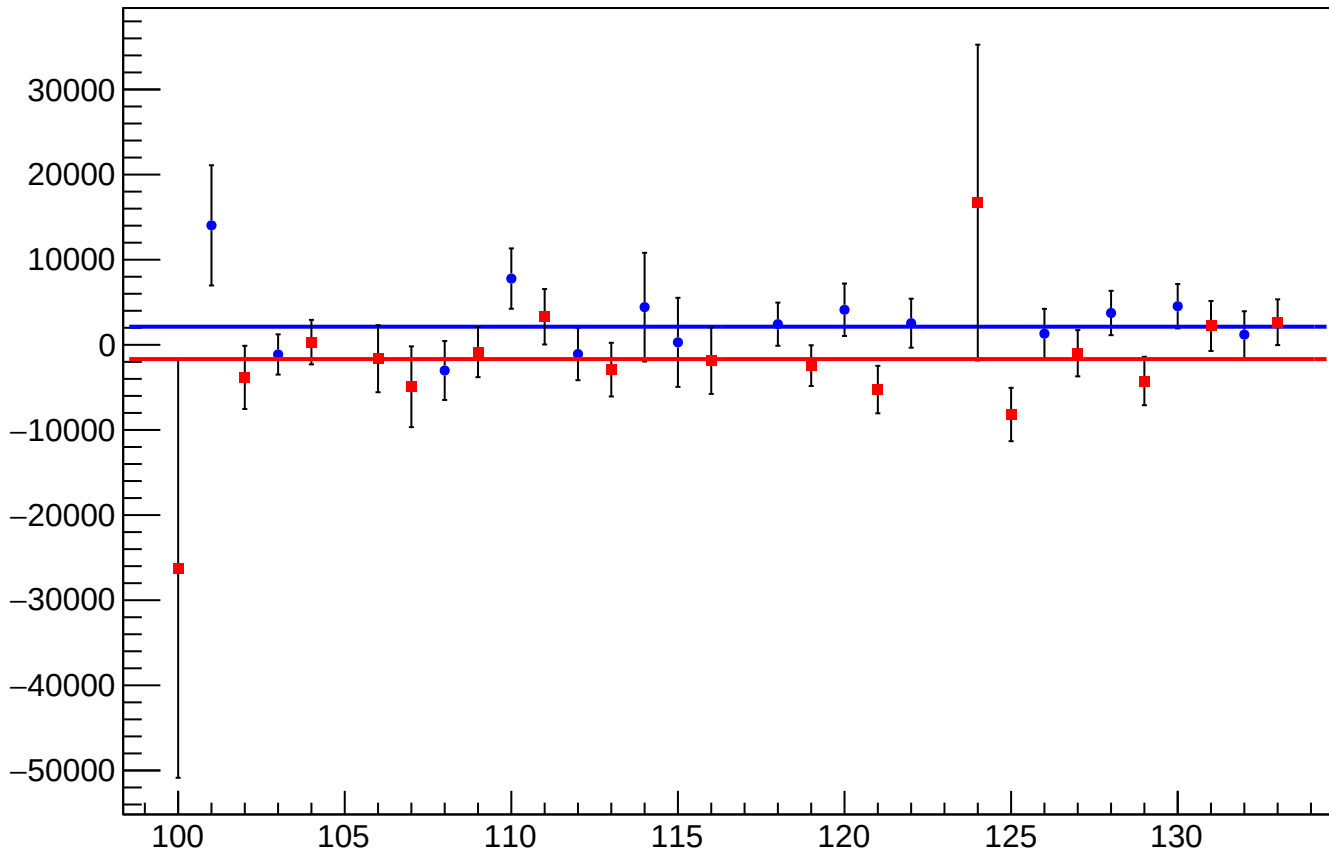
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 540.607+/-0.117  $\chi^2/\text{NDF}$ : 1803389.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_at1\_avg\_mean vs Slug



Right In: 2130.627+/-828.990  $\chi^2/\text{NDF}$ : 12.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1673.160+/-783.982  $\chi^2/\text{NDF}$ : 17.2/16

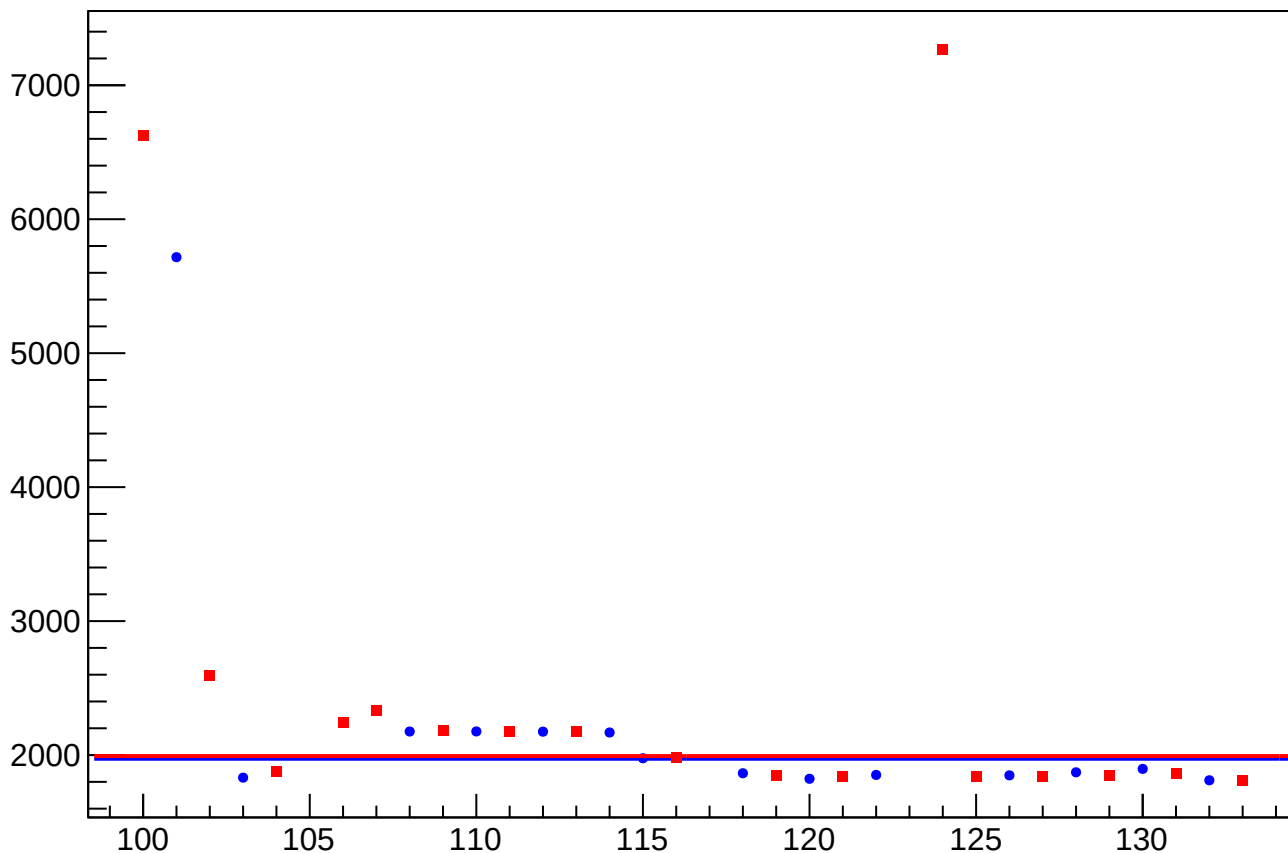
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 122.676+/-569.606  $\chi^2/\text{NDF}$ : 41.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_at1\_avg\_rms vs Slug



Right In: 1972.725+/-0.586  $\chi^2/\text{NDF}$ : 620758.3/13

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

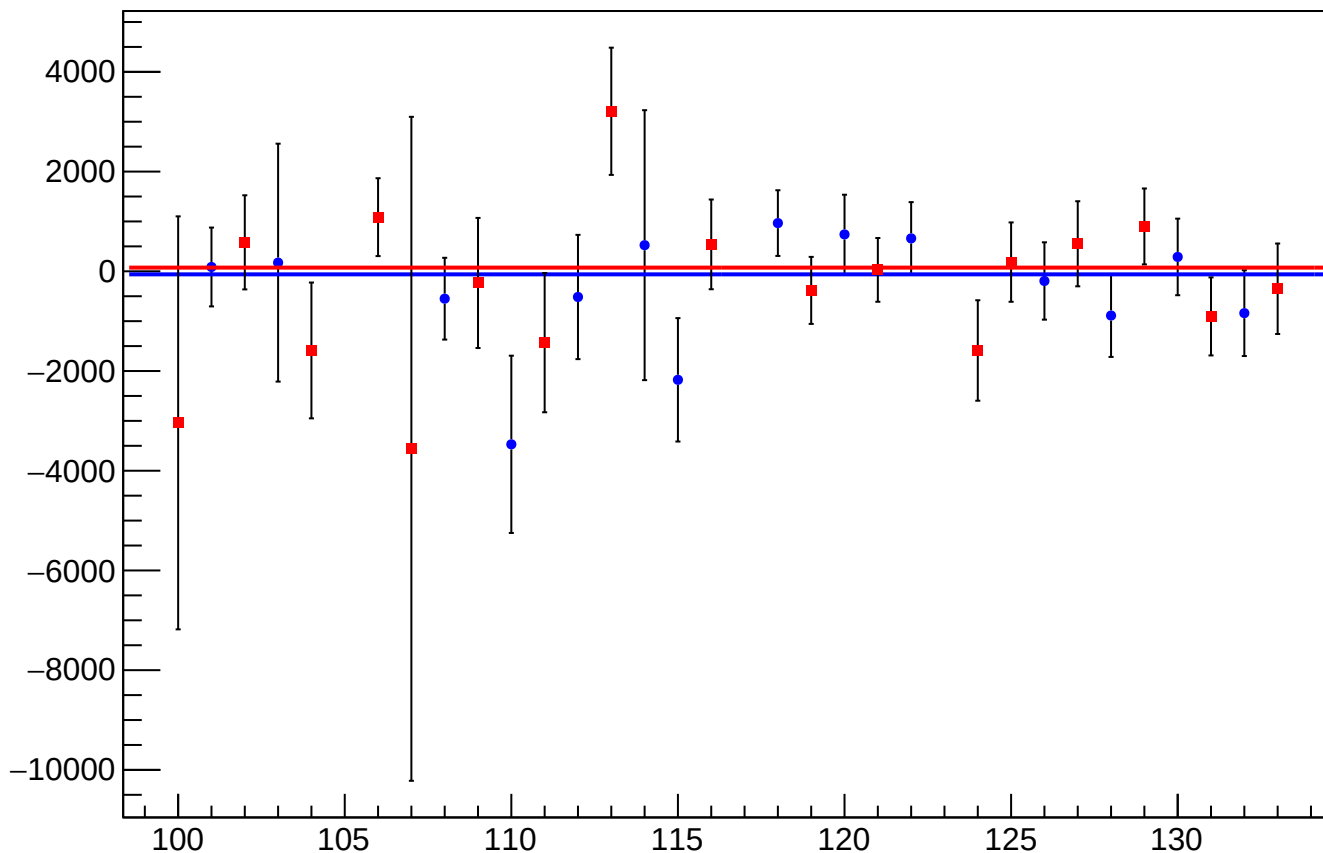
Right Out: 1992.314+/-0.554  $\chi^2/\text{NDF}$ : 371009.3/16

All: 1983.066+/-0.403  $\chi^2/\text{NDF}$ : 992357.2/30

- 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\_cor\_correction\_mean vs Slug



Right In:  $-61.083 \pm 242.928$   $\chi^2/\text{NDF}$ : 13.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $74.033 \pm 226.437$   $\chi^2/\text{NDF}$ : 18.3/16

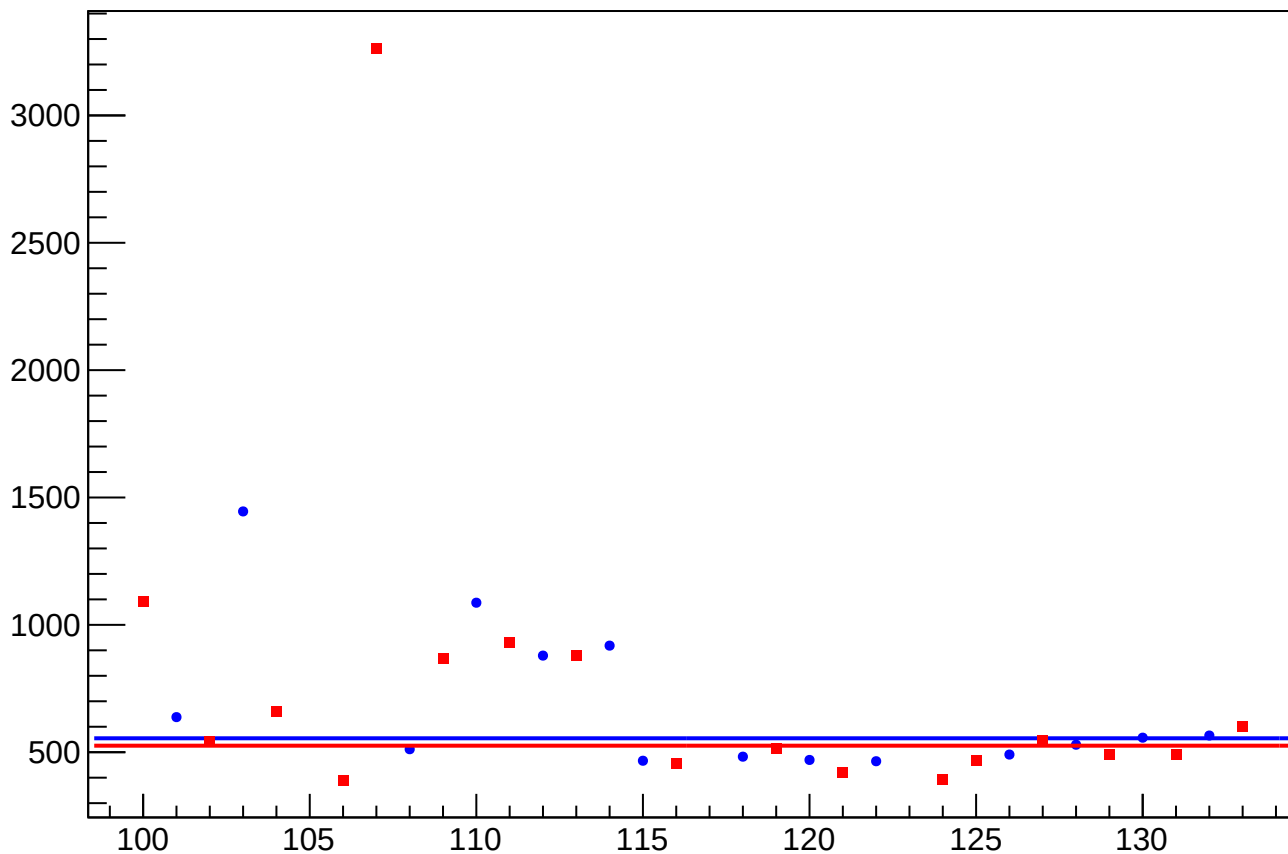
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $11.216 \pm 165.639$   $\chi^2/\text{NDF}$ : 32.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_cor\_correction\_rms vs Slug



Right In: 554.678+/-0.172  $\chi^2/\text{NDF}$ : 760799.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 525.615+/-0.160  $\chi^2/\text{NDF}$ : 1057029.9/16

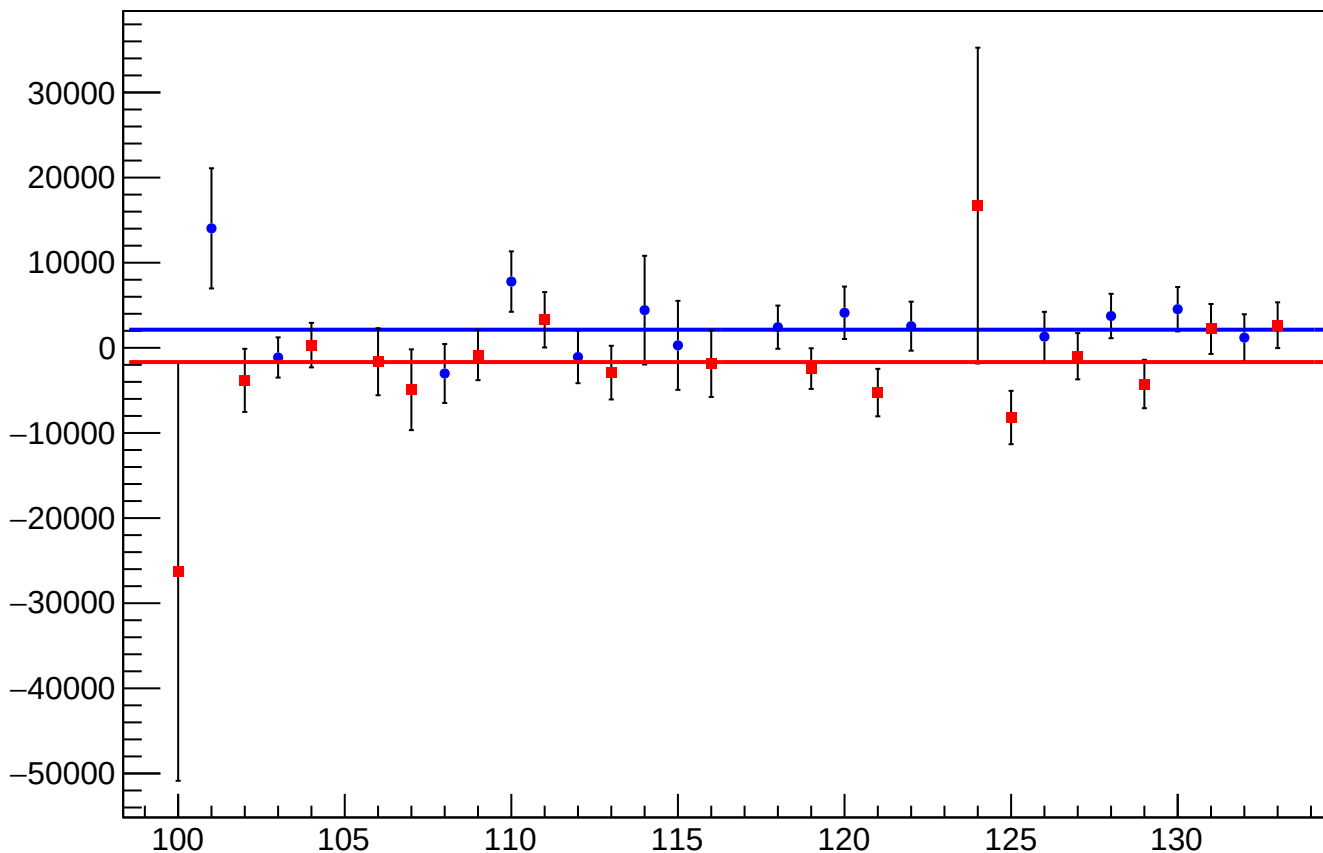
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 539.126+/-0.117  $\chi^2/\text{NDF}$ : 1833146.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_at1\_avg\_mean vs Slug



Right In: 2130.627+/-828.990  $\chi^2/\text{NDF}$ : 12.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1673.160+/-783.982  $\chi^2/\text{NDF}$ : 17.2/16

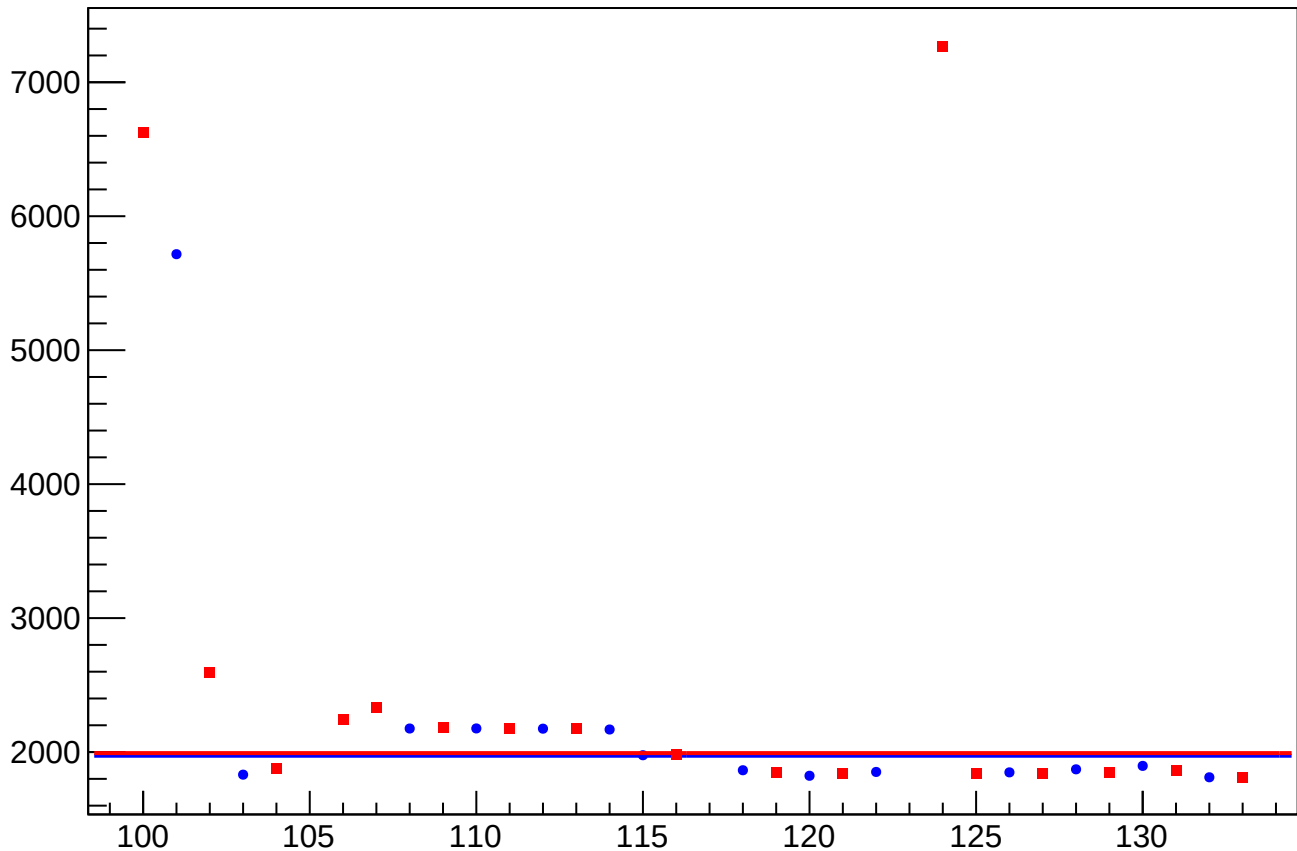
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 122.676+/-569.606  $\chi^2/\text{NDF}$ : 41.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_at1\_avg\_rms vs Slug



Right In: 1972.725+/-0.586  $\chi^2/\text{NDF}$ : 620758.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1992.314+/-0.554  $\chi^2/\text{NDF}$ : 371009.3/16

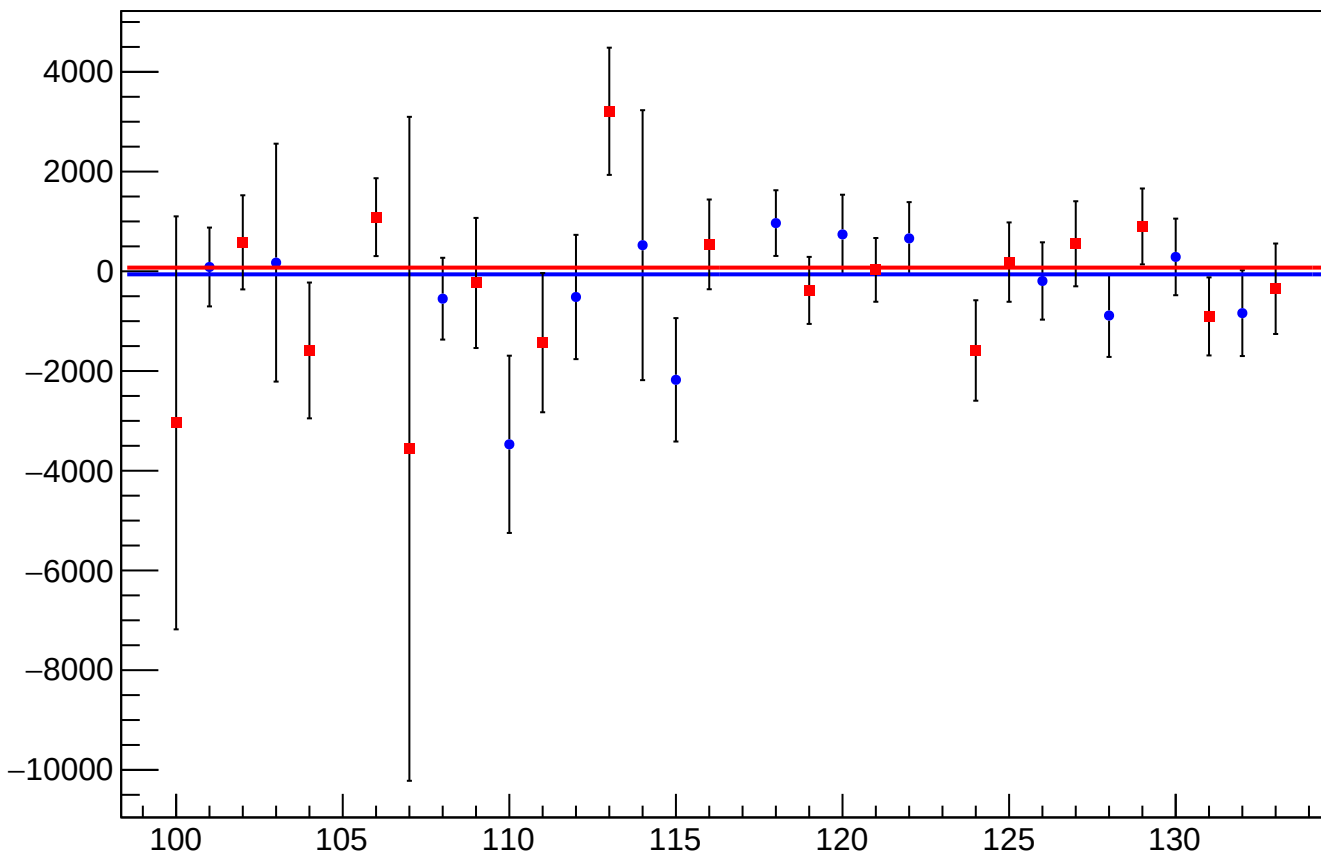
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1983.066+/-0.403  $\chi^2/\text{NDF}$ : 992357.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In:  $-61.083 \pm 242.928$   $\chi^2/\text{NDF}$ : 13.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $74.033 \pm 226.437$   $\chi^2/\text{NDF}$ : 18.3/16

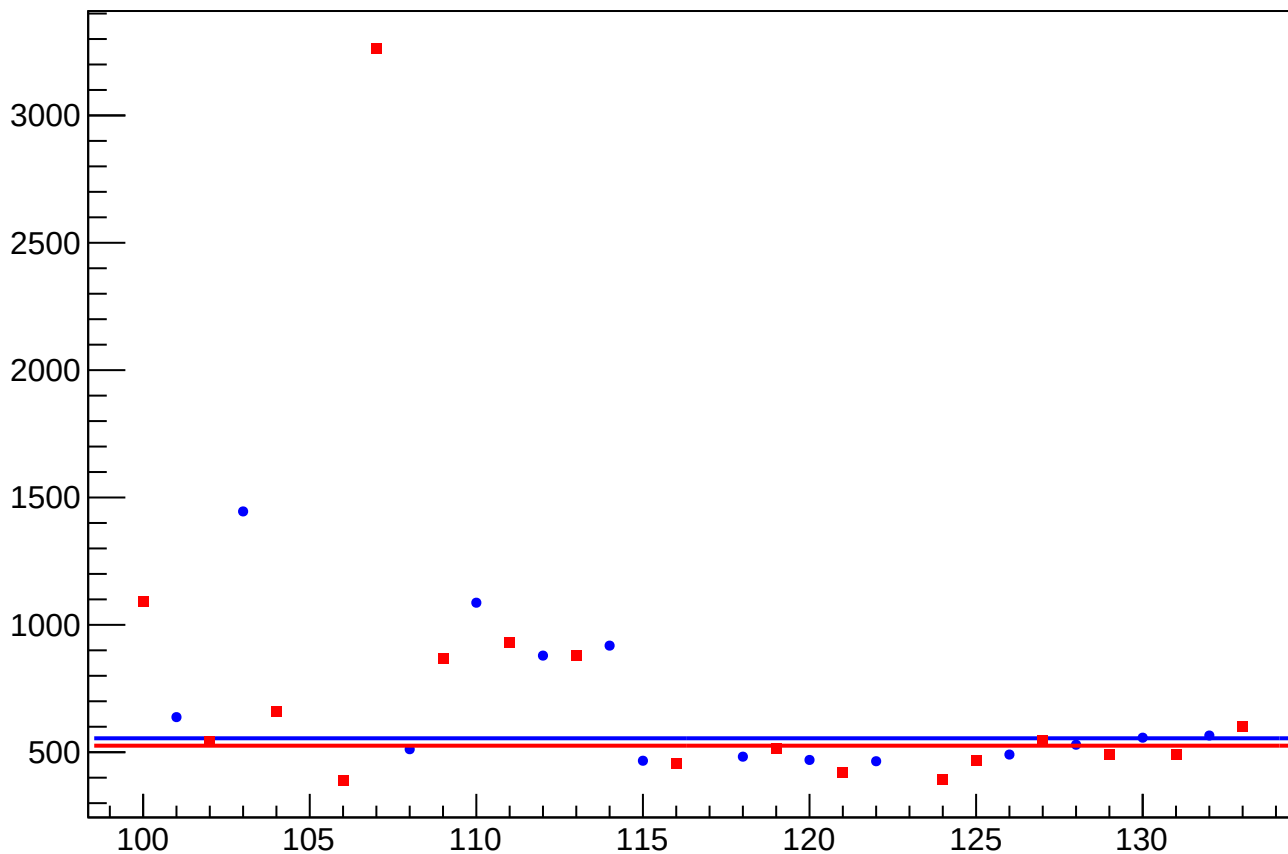
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $11.216 \pm 165.639$   $\chi^2/\text{NDF}$ : 32.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 554.678+/-0.172  $\chi^2/\text{NDF}$ : 760799.4/13

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: 525.615+/-0.160  $\chi^2/\text{NDF}$ : 1057029.9/16

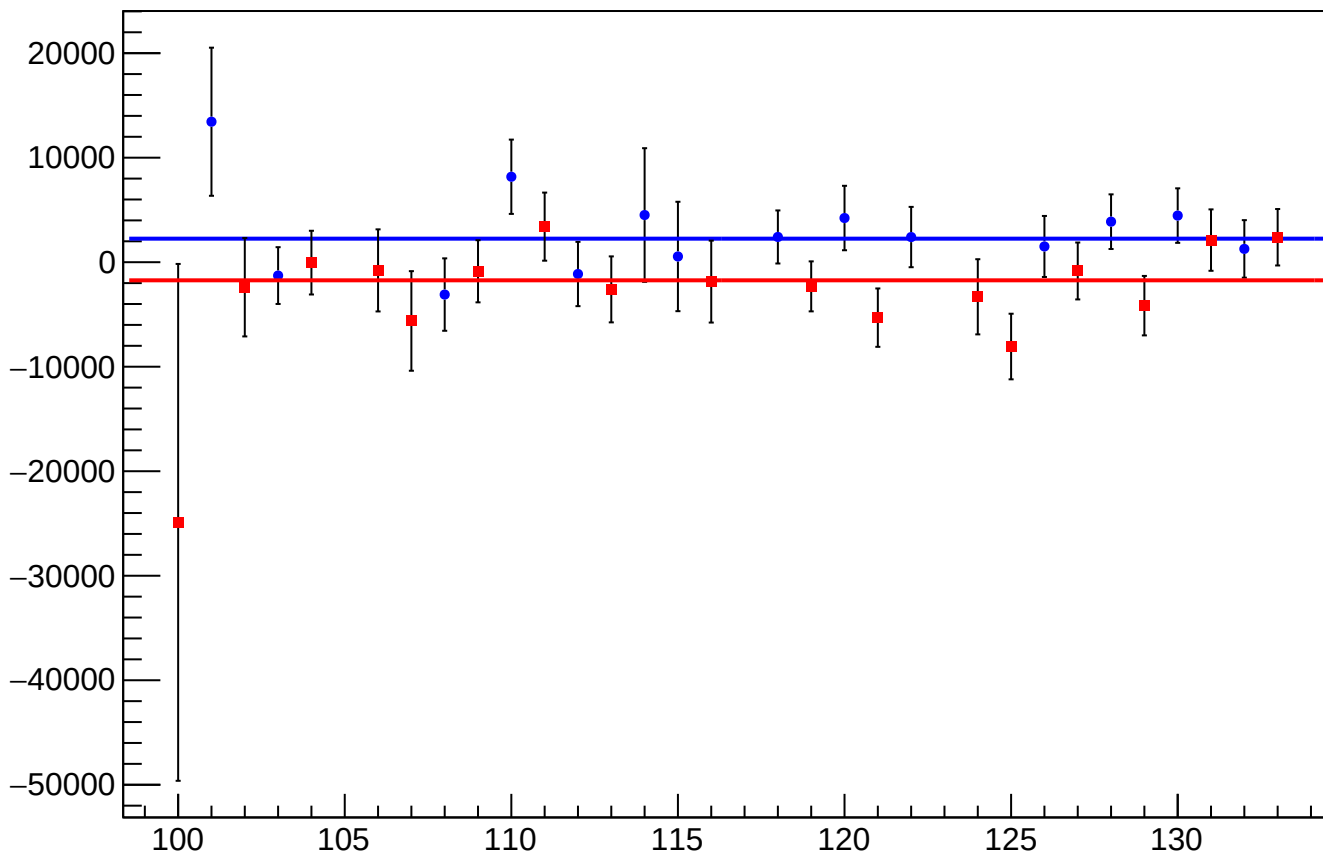
All: 539.126+/-0.117  $\chi^2/\text{NDF}$ : 1833146.3/30

- 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\_at1\_avg\_mean vs Slug



Right In: 2251.942 $\pm$ 842.861  $\chi^2$ /NDF: 12.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1733.871 $\pm$ 783.403  $\chi^2$ /NDF: 15.4/16

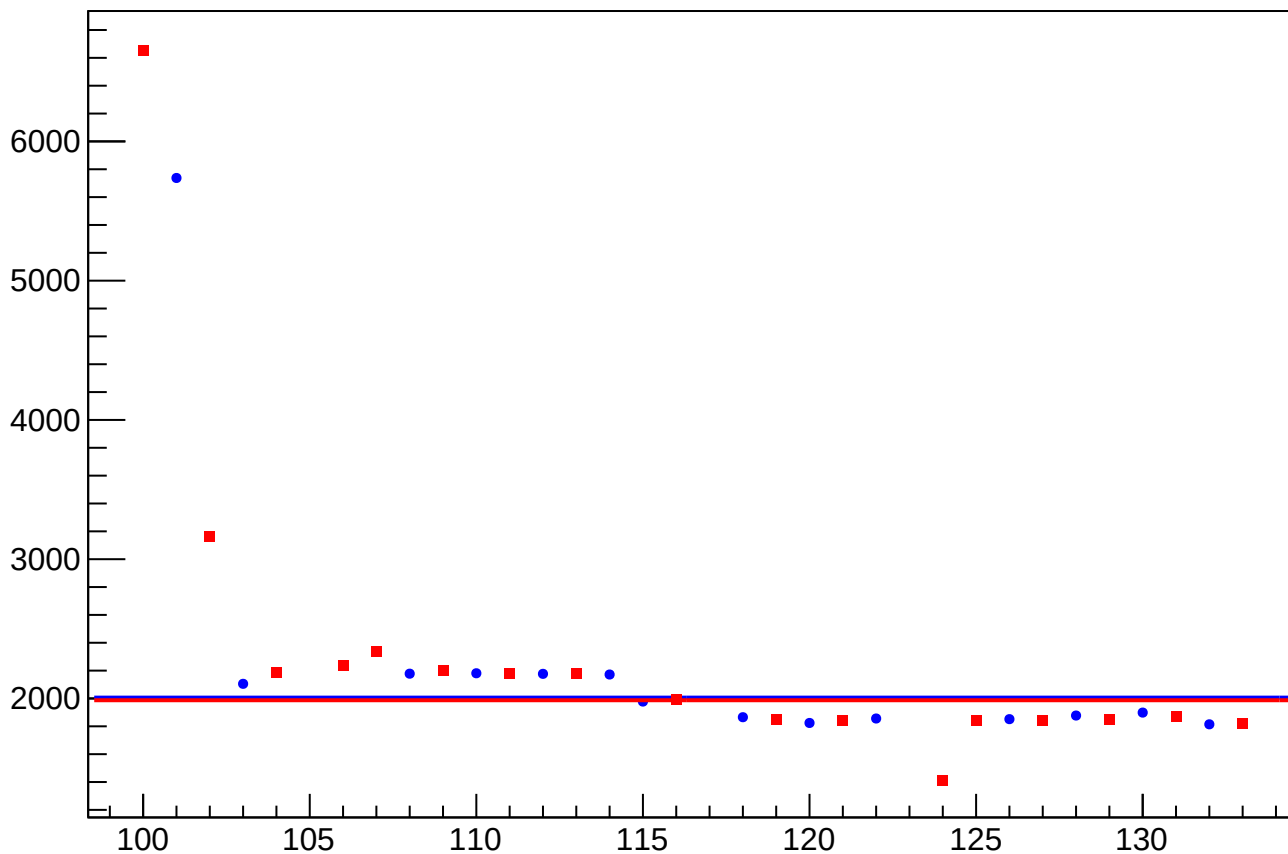
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 113.505 $\pm$ 573.819  $\chi^2$ /NDF: 39.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_at1\_avg\_rms vs Slug



Right In: 2006.004+/-0.596  $\chi^2/\text{NDF}$ : 616627.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1987.252+/-0.554  $\chi^2/\text{NDF}$ : 337044.3/16

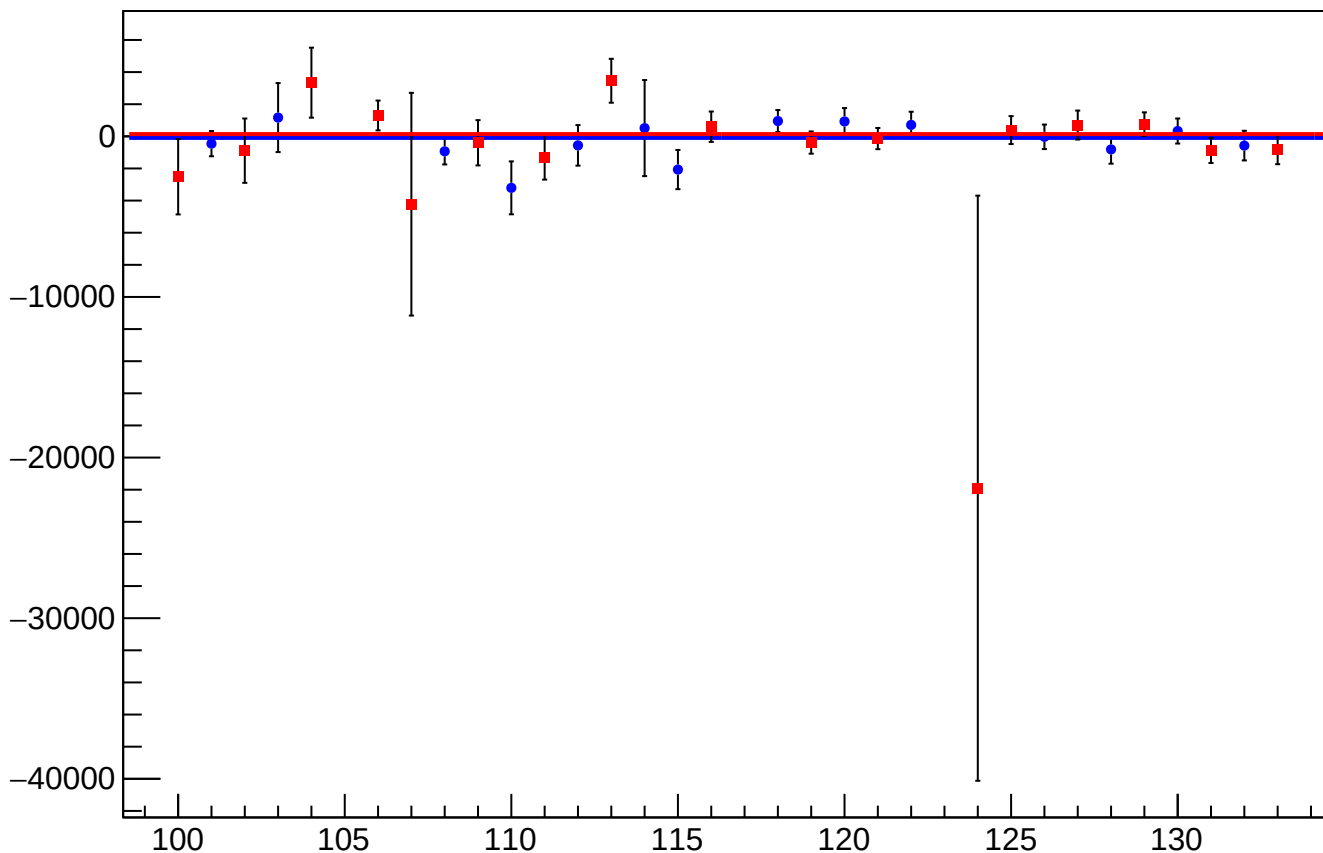
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1995.943+/-0.406  $\chi^2/\text{NDF}$ : 954202.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_dit\_correction\_mean vs Slug



Right In: -96.950 $\pm$ 250.170  $\chi^2/\text{NDF}$ : 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 140.842 $\pm$ 249.304  $\chi^2/\text{NDF}$ : 19.2/16

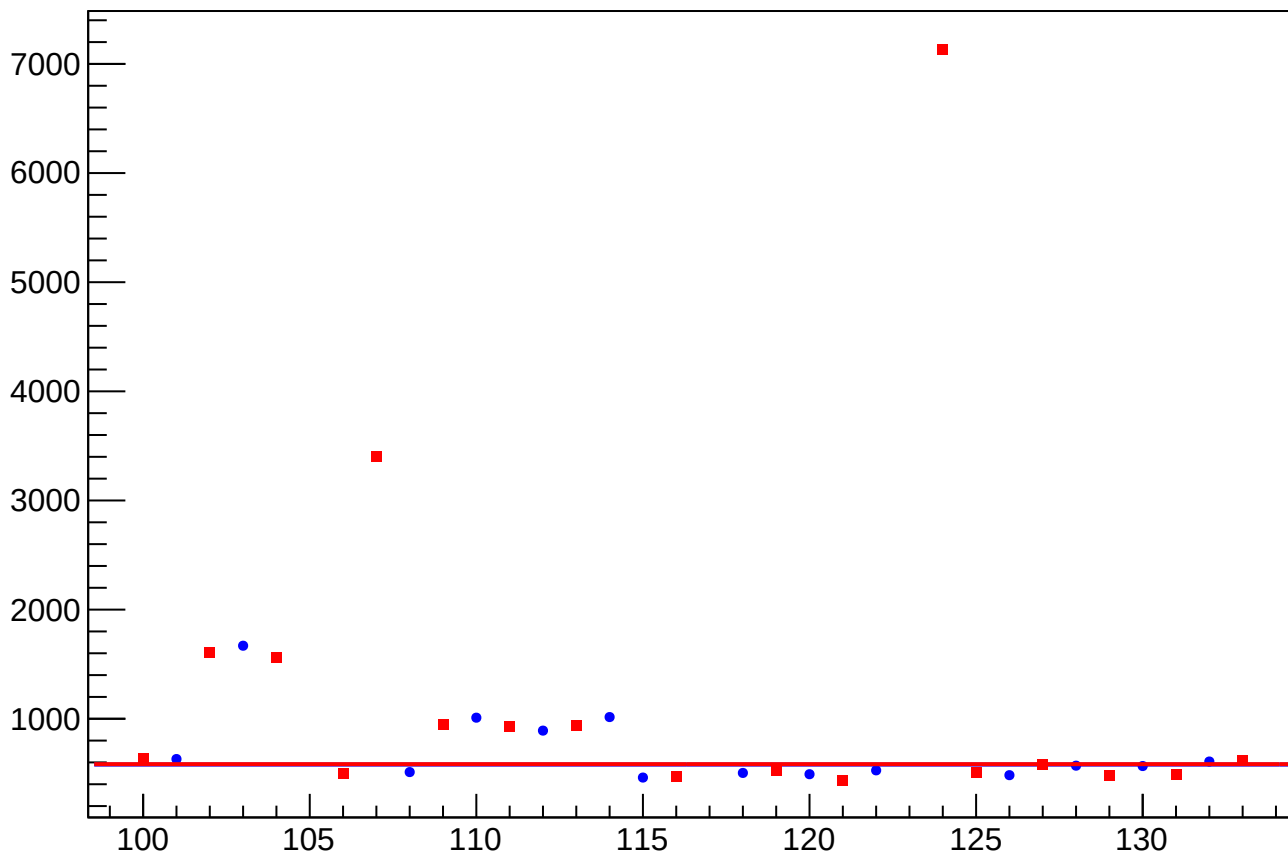
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.358 $\pm$ 176.590  $\chi^2/\text{NDF}$ : 33.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_dit\_correction\_rms vs Slug



Right In: 580.160+/-0.177  $\chi^2/\text{NDF}$ : 946267.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 583.966+/-0.176  $\chi^2/\text{NDF}$ : 2157542.3/16

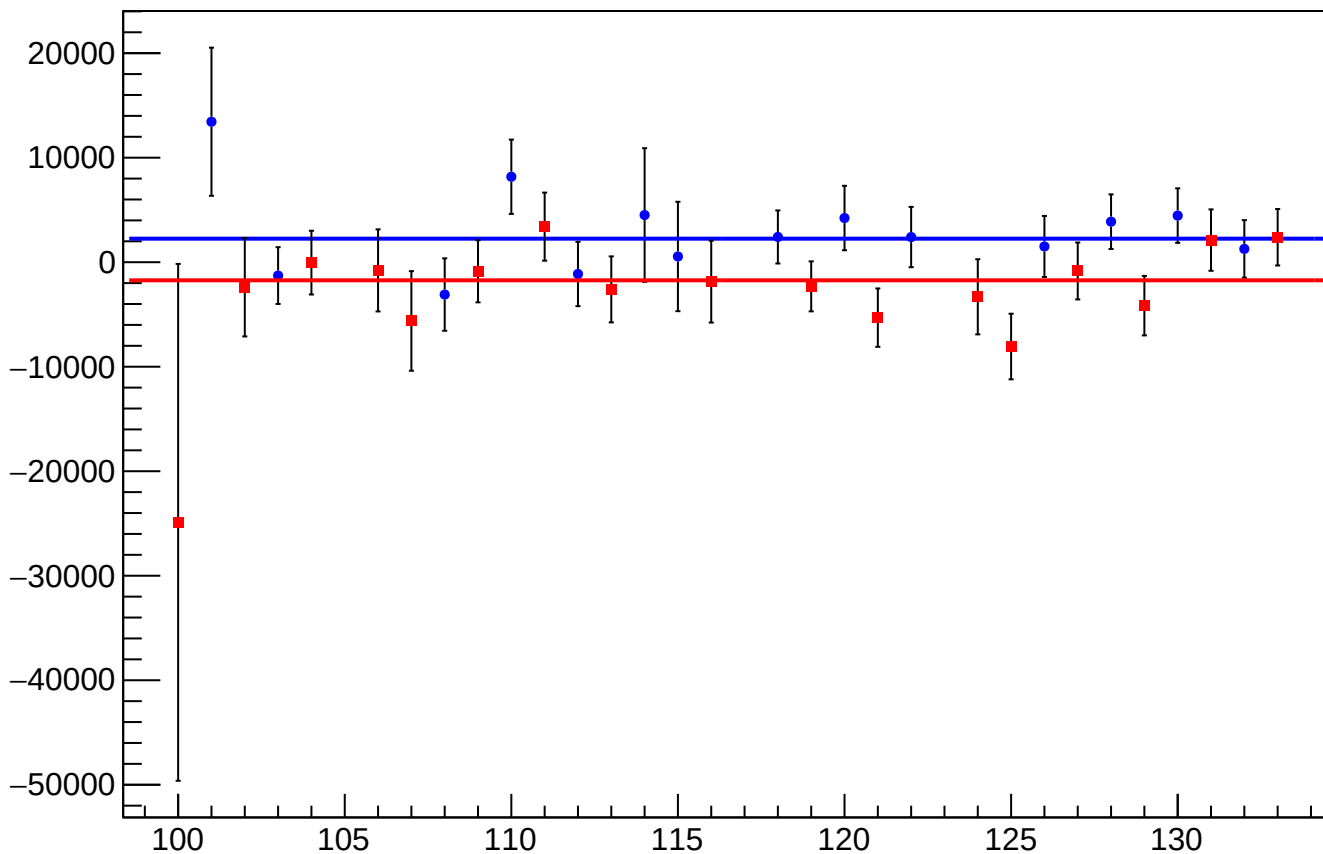
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 582.070+/-0.125  $\chi^2/\text{NDF}$ : 3104042.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_at1\_avg\_mean vs Slug



Right In: 2251.940 $\pm$ 842.861  $\chi^2$ /NDF: 12.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1733.869 $\pm$ 783.403  $\chi^2$ /NDF: 15.4/16

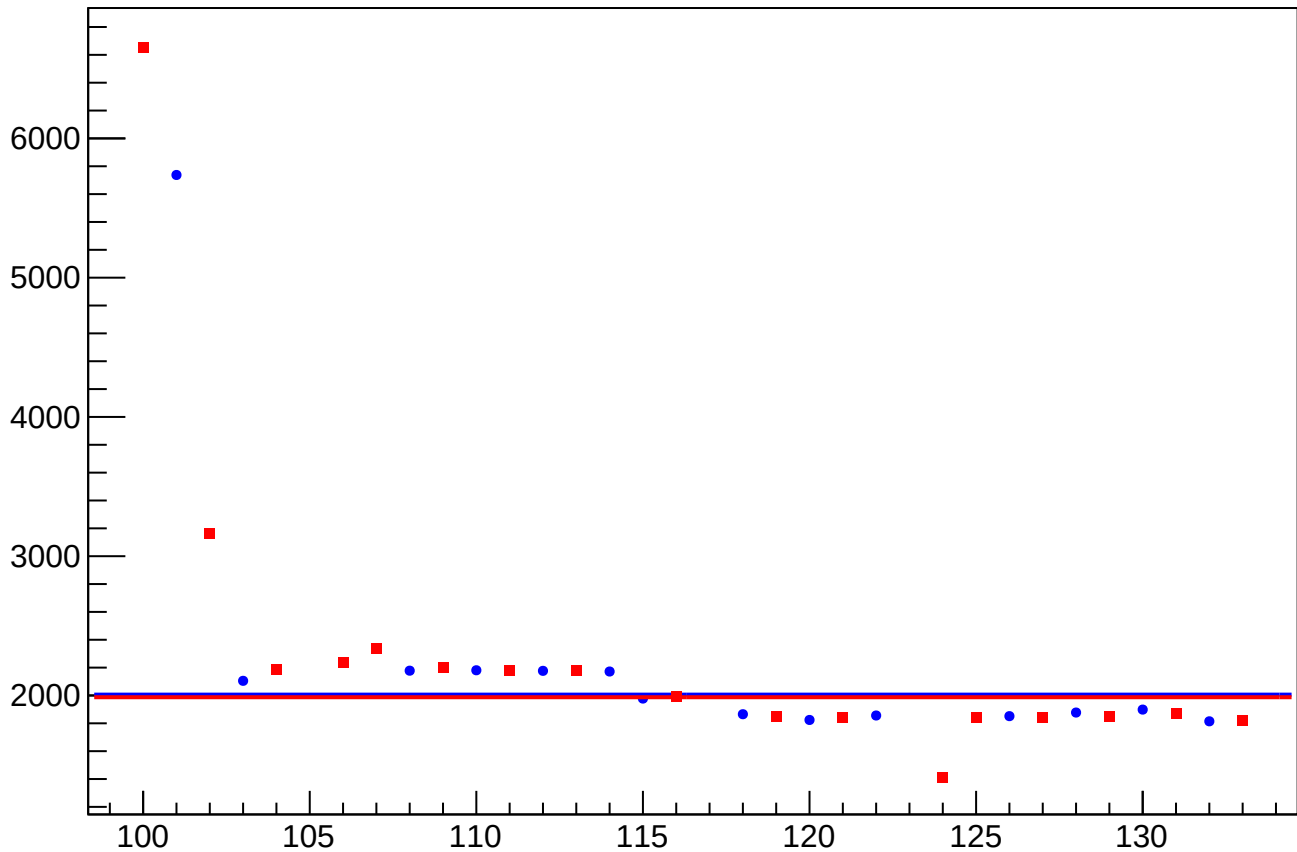
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 113.505 $\pm$ 573.819  $\chi^2$ /NDF: 39.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_at1\_avg\_rms vs Slug



Right In: 2006.003+/-0.596  $\chi^2/\text{NDF}$ : 616627.1/13

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

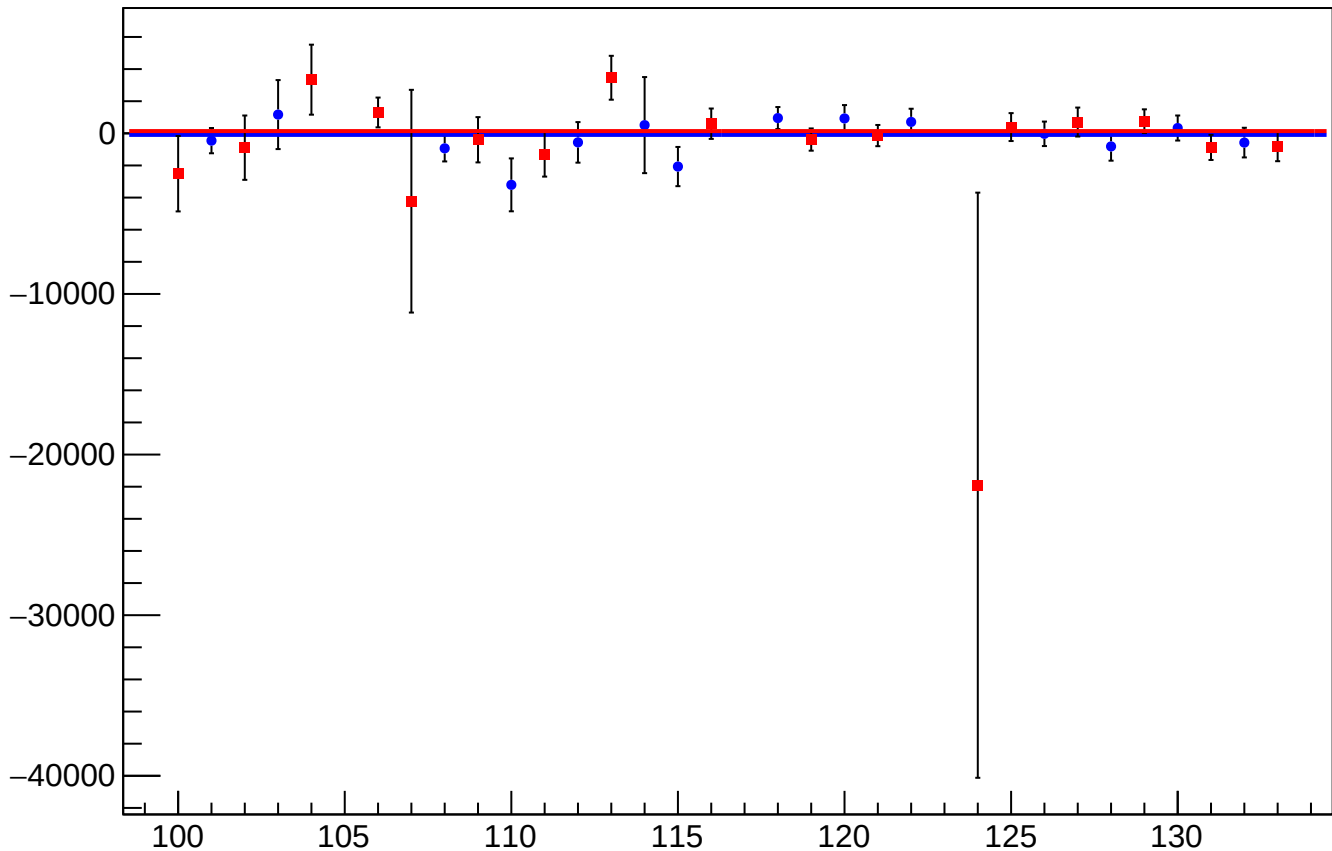
Right Out: 1987.252+/-0.554  $\chi^2/\text{NDF}$ : 337043.0/16

All: 1995.943+/-0.406  $\chi^2/\text{NDF}$ : 954201.2/30

- 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: -96.950 $\pm$ 250.169  $\chi^2/\text{NDF}$ : 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 140.841 $\pm$ 249.303  $\chi^2/\text{NDF}$ : 19.2/16

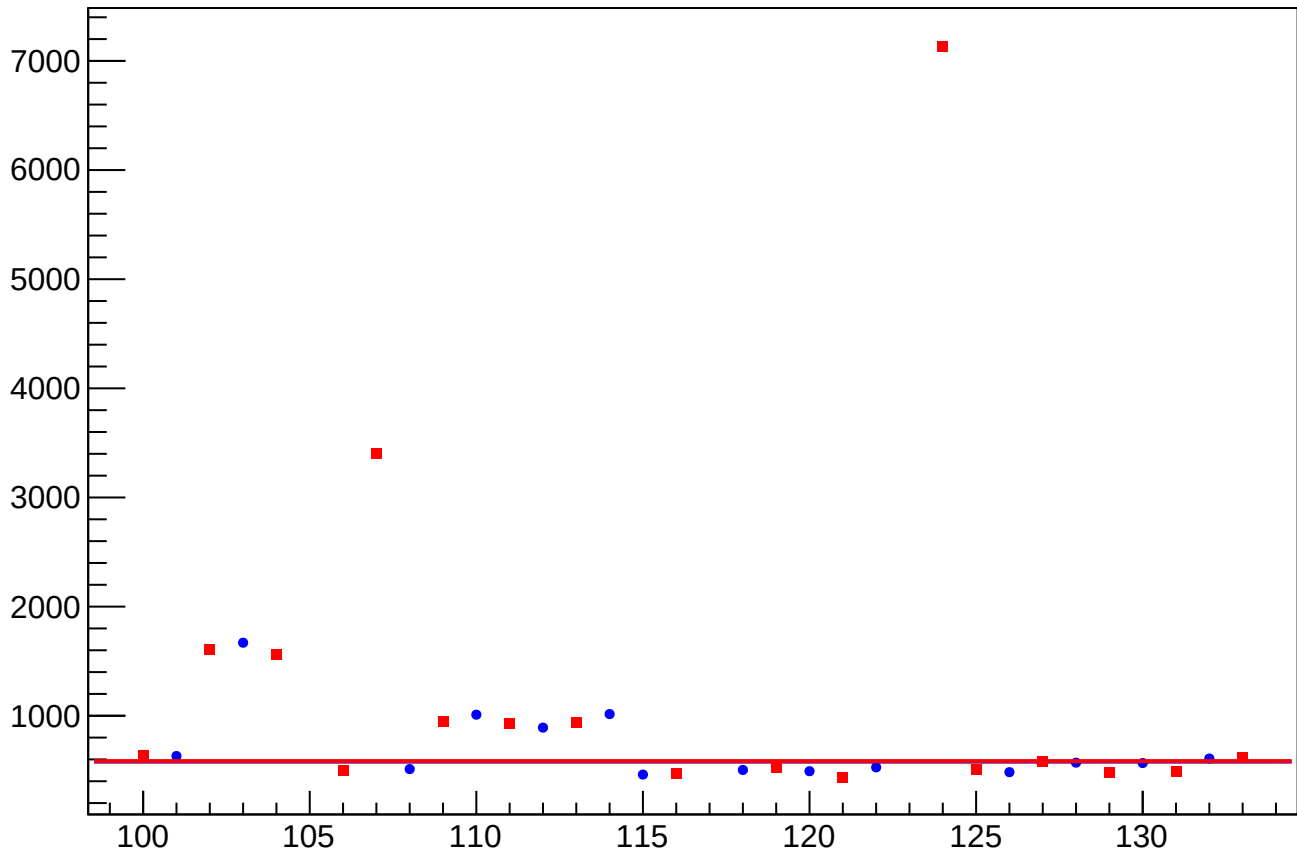
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.358 $\pm$ 176.589  $\chi^2/\text{NDF}$ : 33.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 580.159+/-0.177  $\chi^2/\text{NDF}$ : 946271.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 583.965+/-0.176  $\chi^2/\text{NDF}$ : 2157547.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

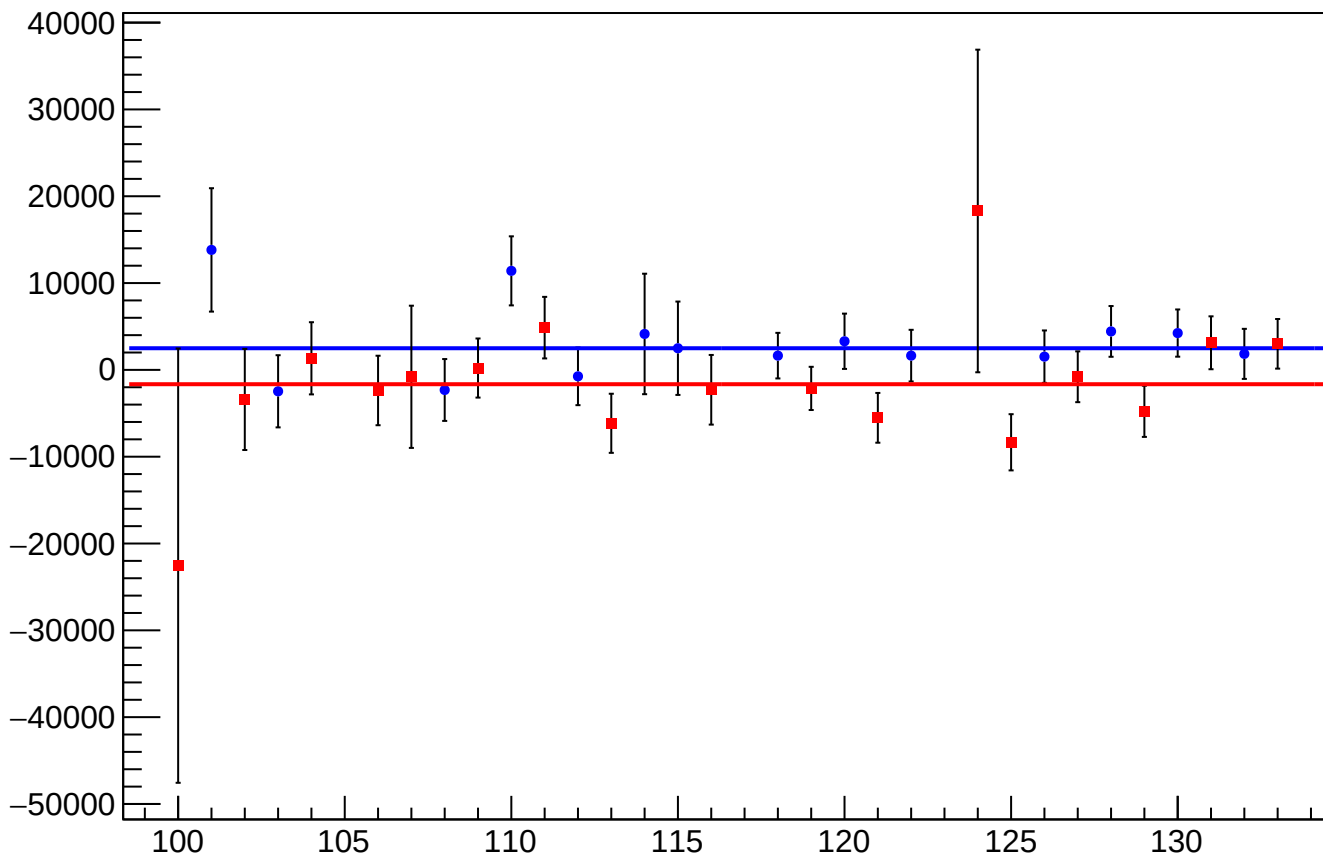
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 582.069+/-0.125  $\chi^2/\text{NDF}$ : 3104051.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_at1\_avg\_mean vs Slug



Right In: 2493.108+/-910.999  $\chi^2/\text{NDF}$ : 13.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1650.470+/-868.961  $\chi^2/\text{NDF}$ : 20.4/16

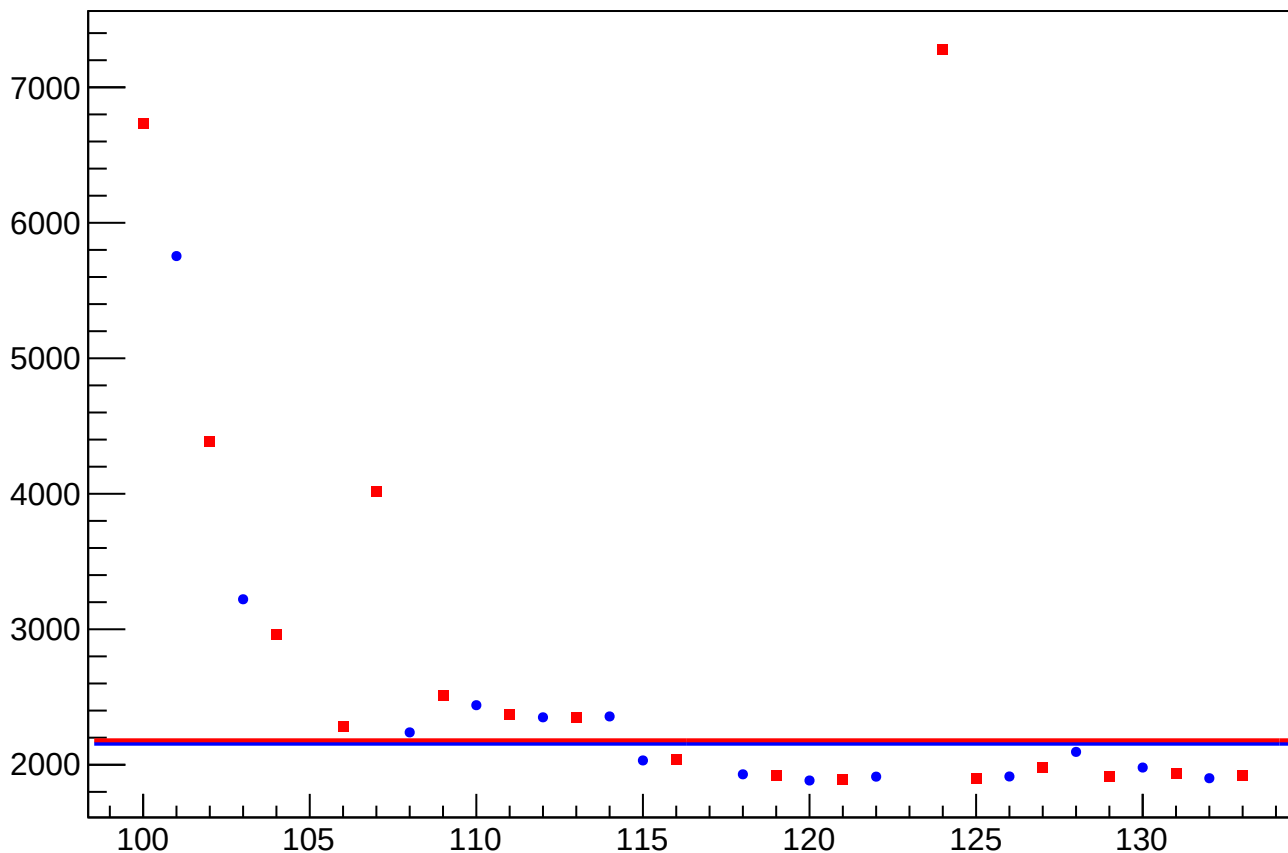
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 323.513+/-628.785  $\chi^2/\text{NDF}$ : 44.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_rms vs Slug



Right In: 2155.504+/-0.644  $\chi^2/\text{NDF}$ : 745875.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2180.655+/-0.614  $\chi^2/\text{NDF}$ : 820041.5/16

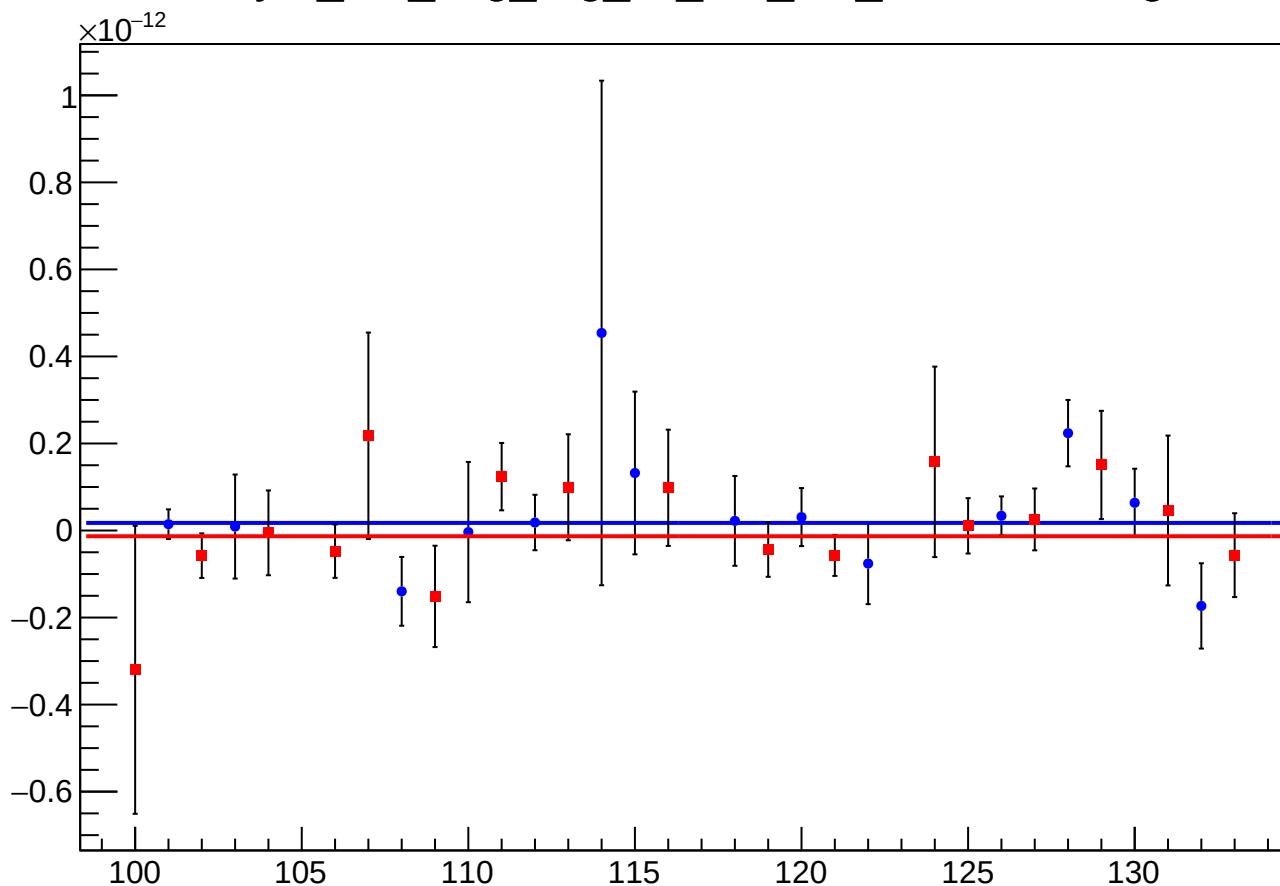
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2168.673+/-0.445  $\chi^2/\text{NDF}$ : 1566715.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.2/16

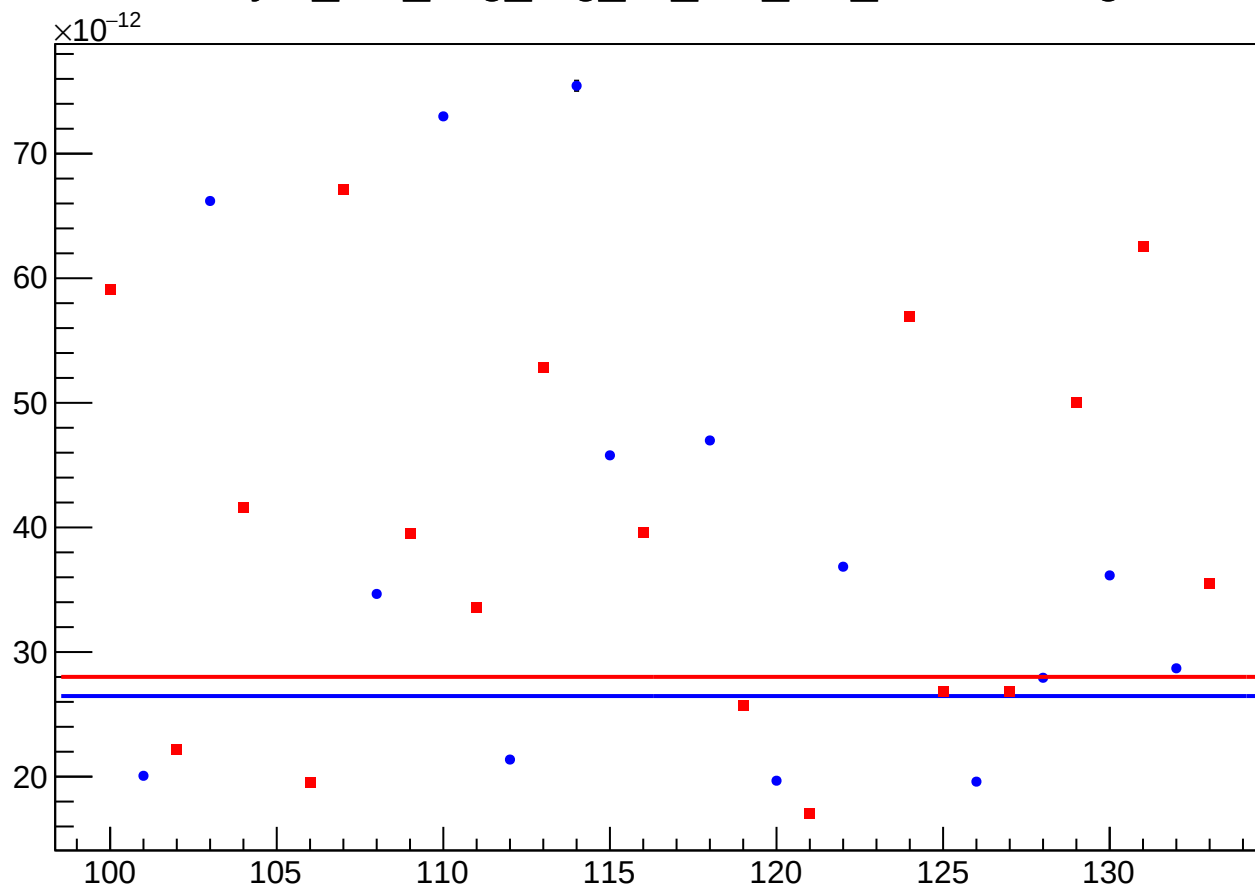
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 32.0/30

- 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  $\chi^2/\text{NDF}$ : 732845.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 606333.5/16

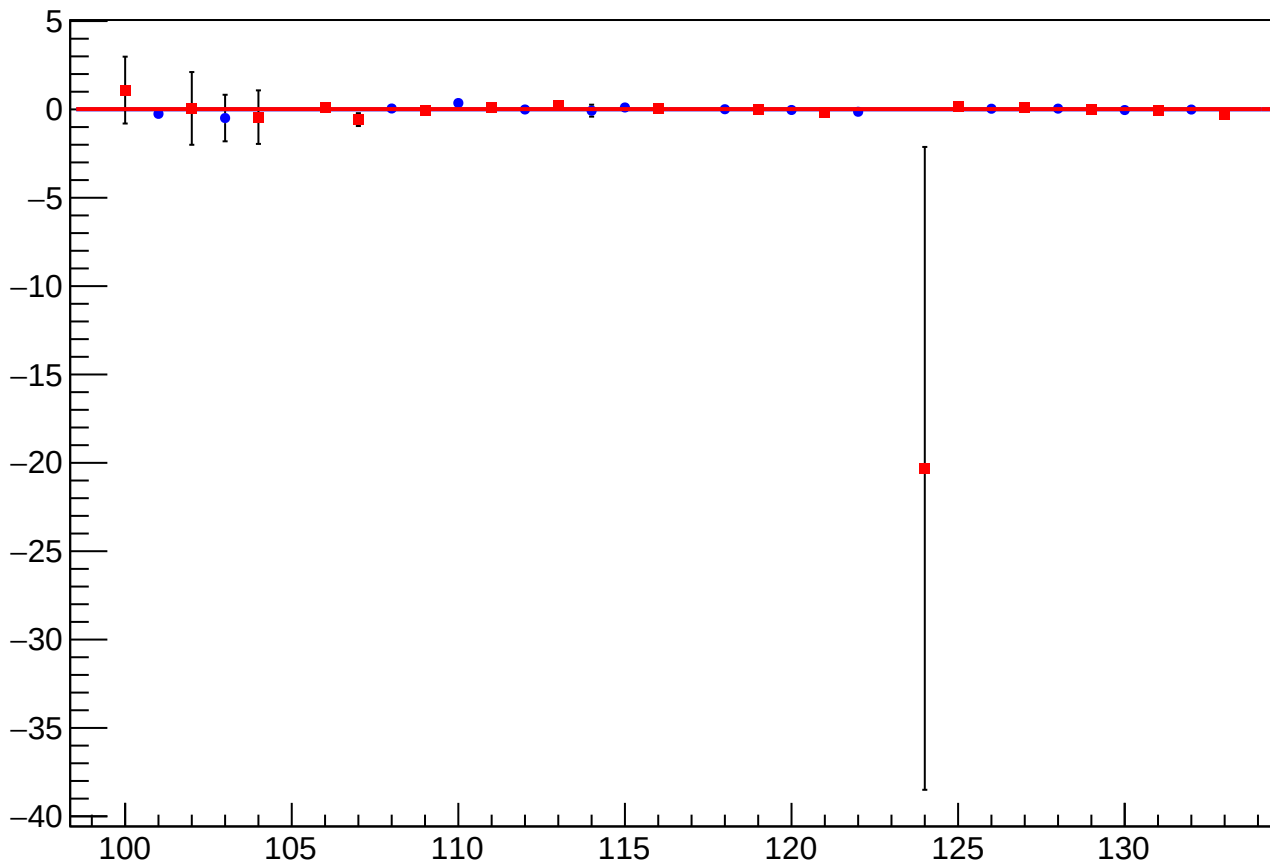
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1345451.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.004 $\pm$ 0.028  $\chi^2$ /NDF: 11.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.017 $\pm$ 0.026  $\chi^2$ /NDF: 16.9/16

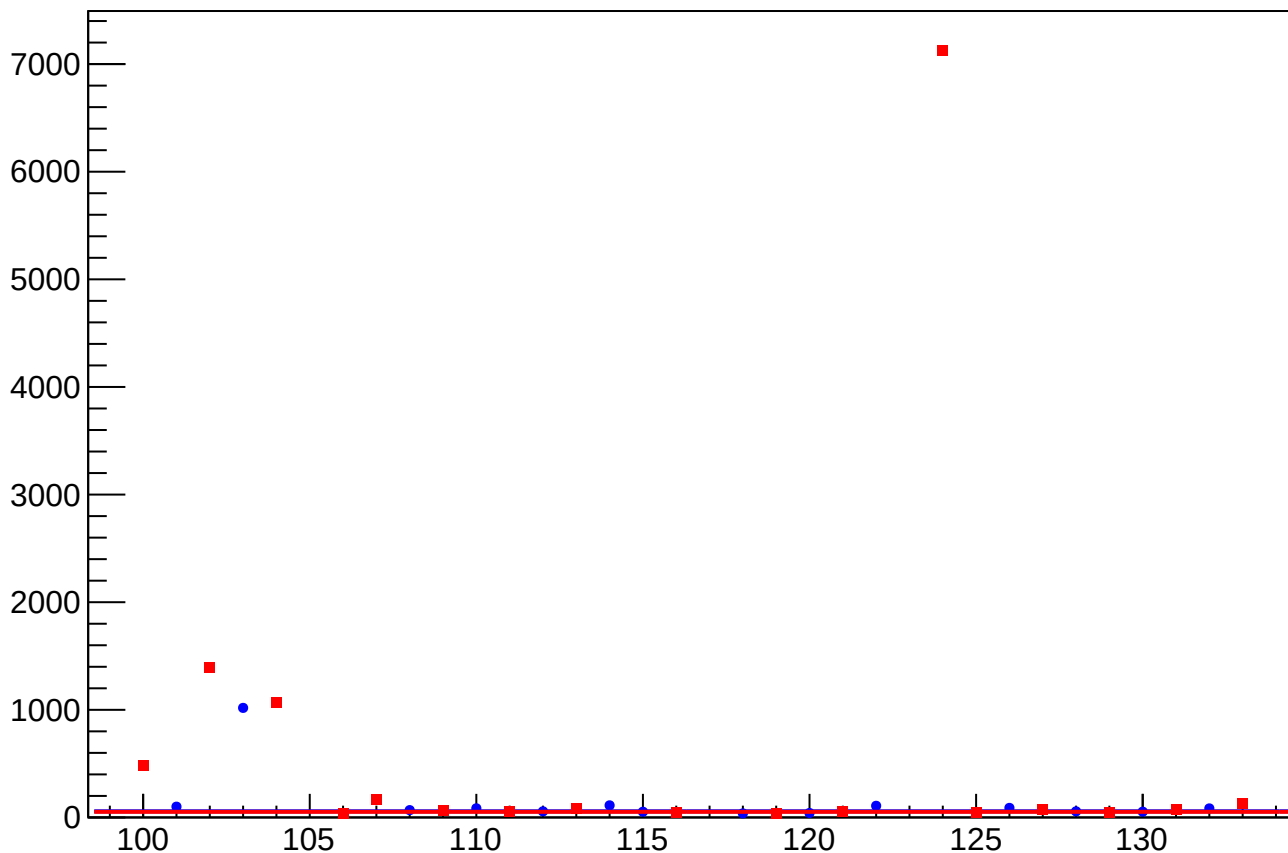
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.019  $\chi^2$ /NDF: 28.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 57.341+/-0.020  $\chi^2/\text{NDF}$ : 2060384.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.296+/-0.019  $\chi^2/\text{NDF}$ : 3190155.6/16

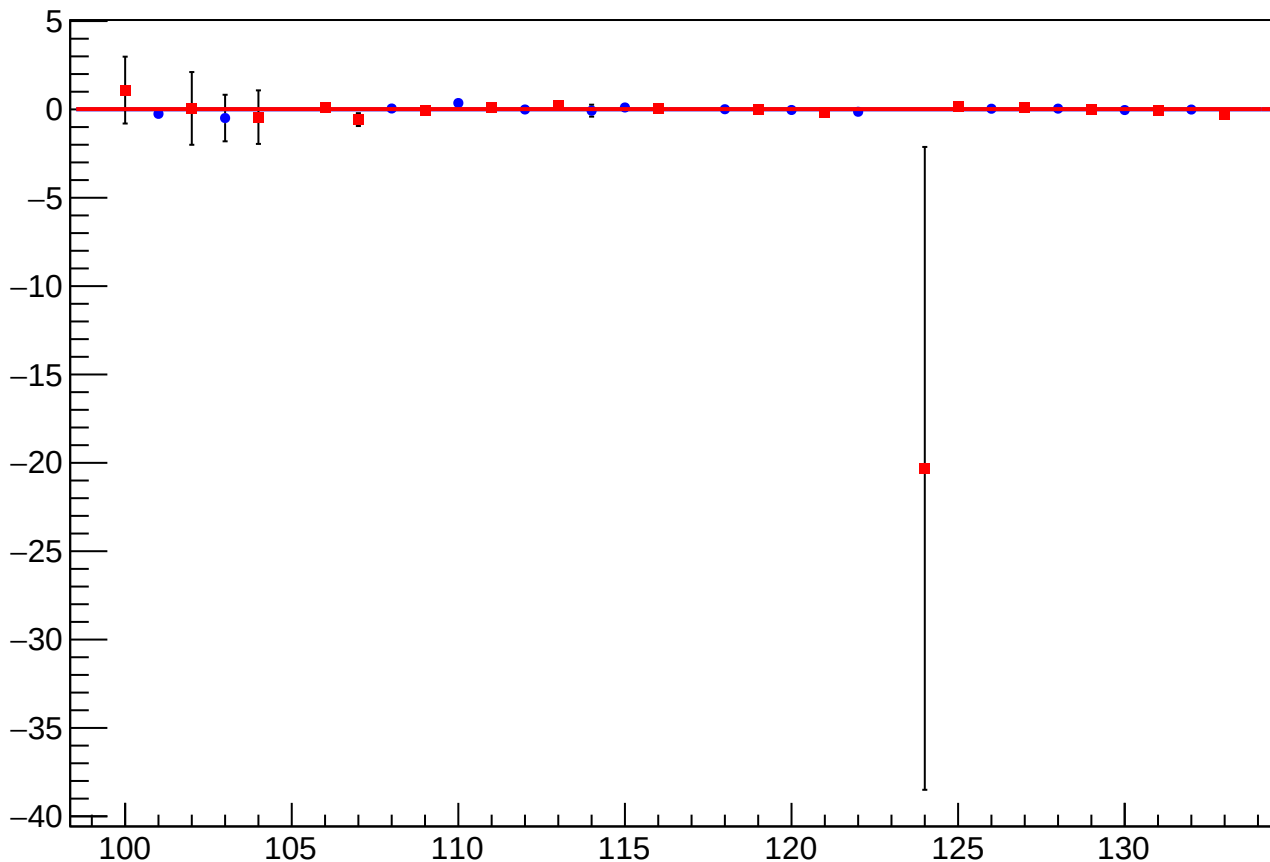
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.634+/-0.014  $\chi^2/\text{NDF}$ : 5284351.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.004 $\pm$ 0.028  $\chi^2$ /NDF: 11.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.017 $\pm$ 0.026  $\chi^2$ /NDF: 16.9/16

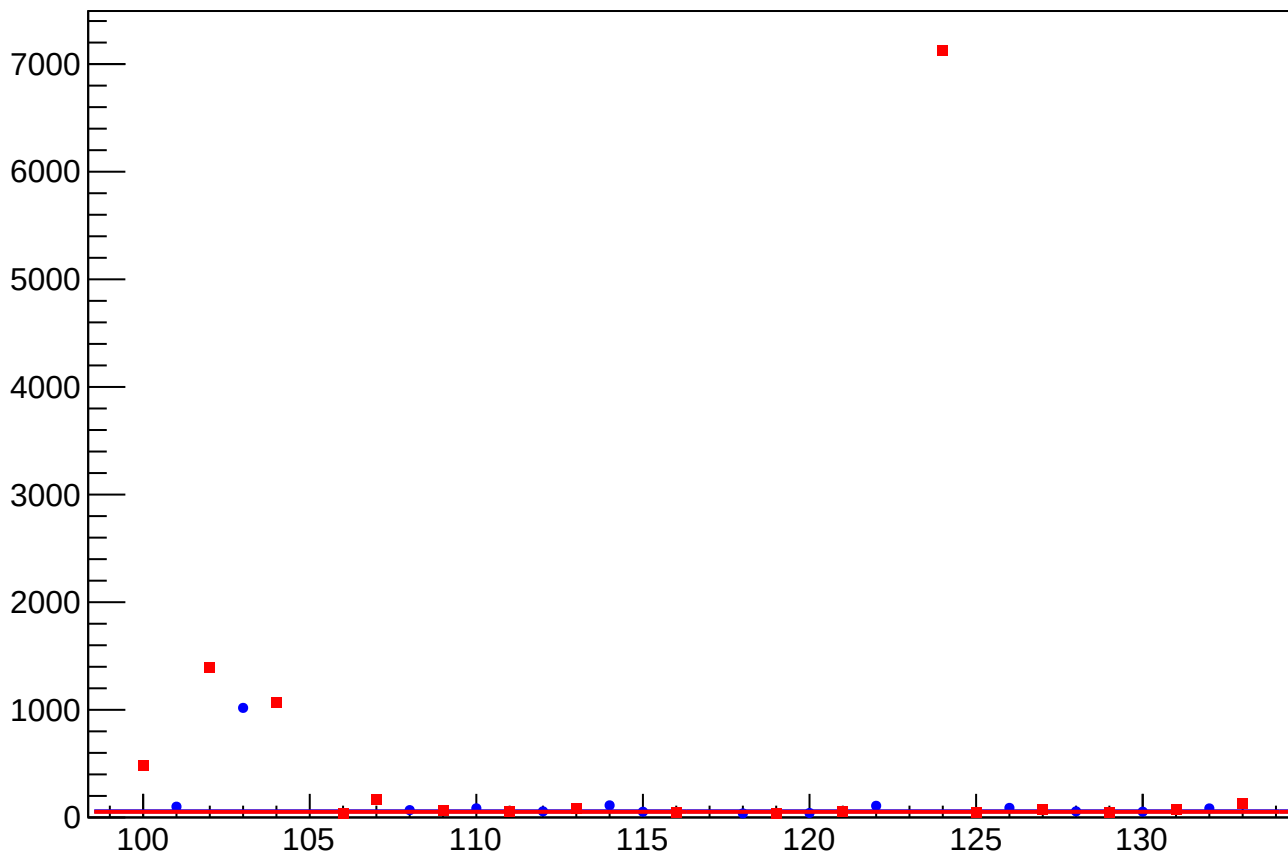
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.019  $\chi^2$ /NDF: 28.1/30

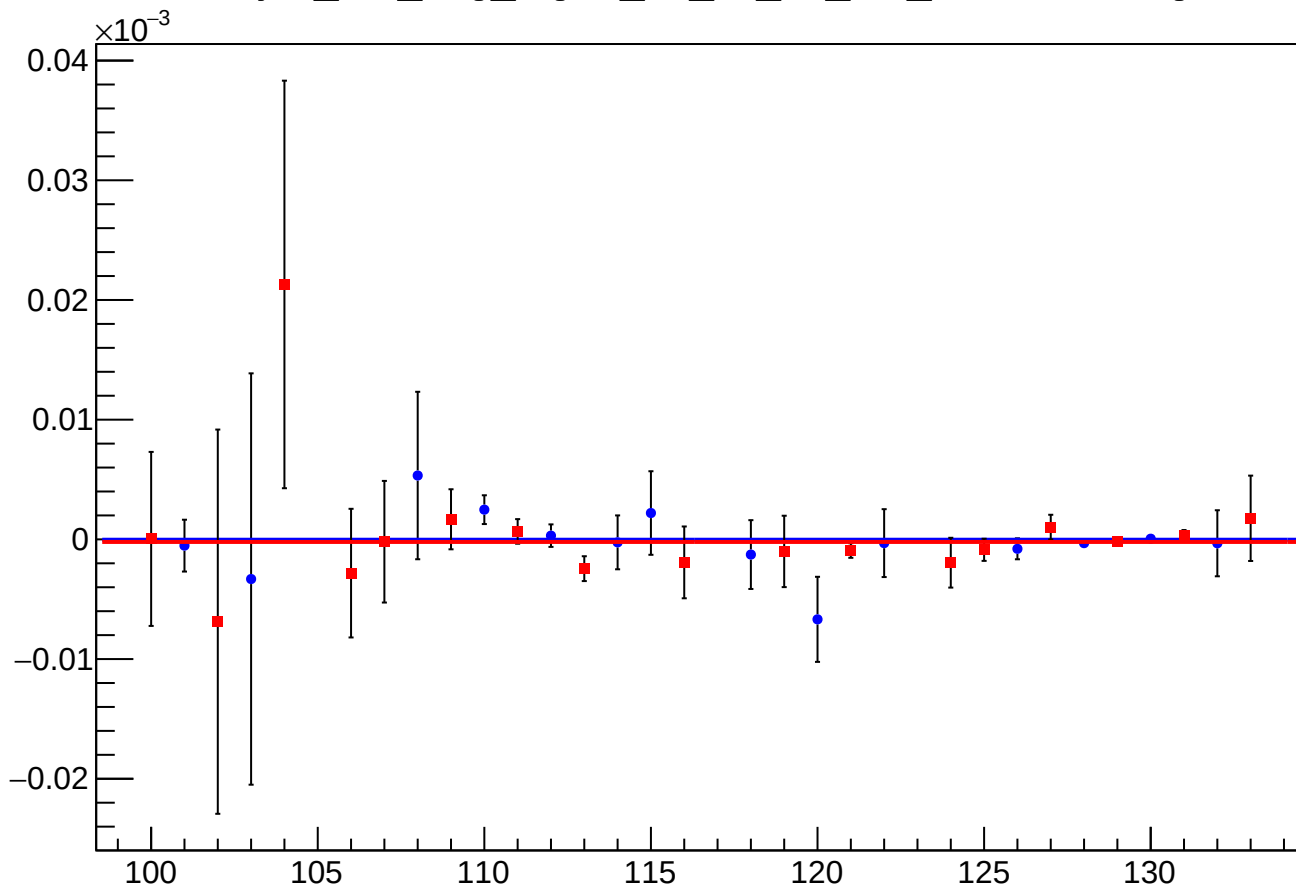
- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug





asym\_at1\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.3/16

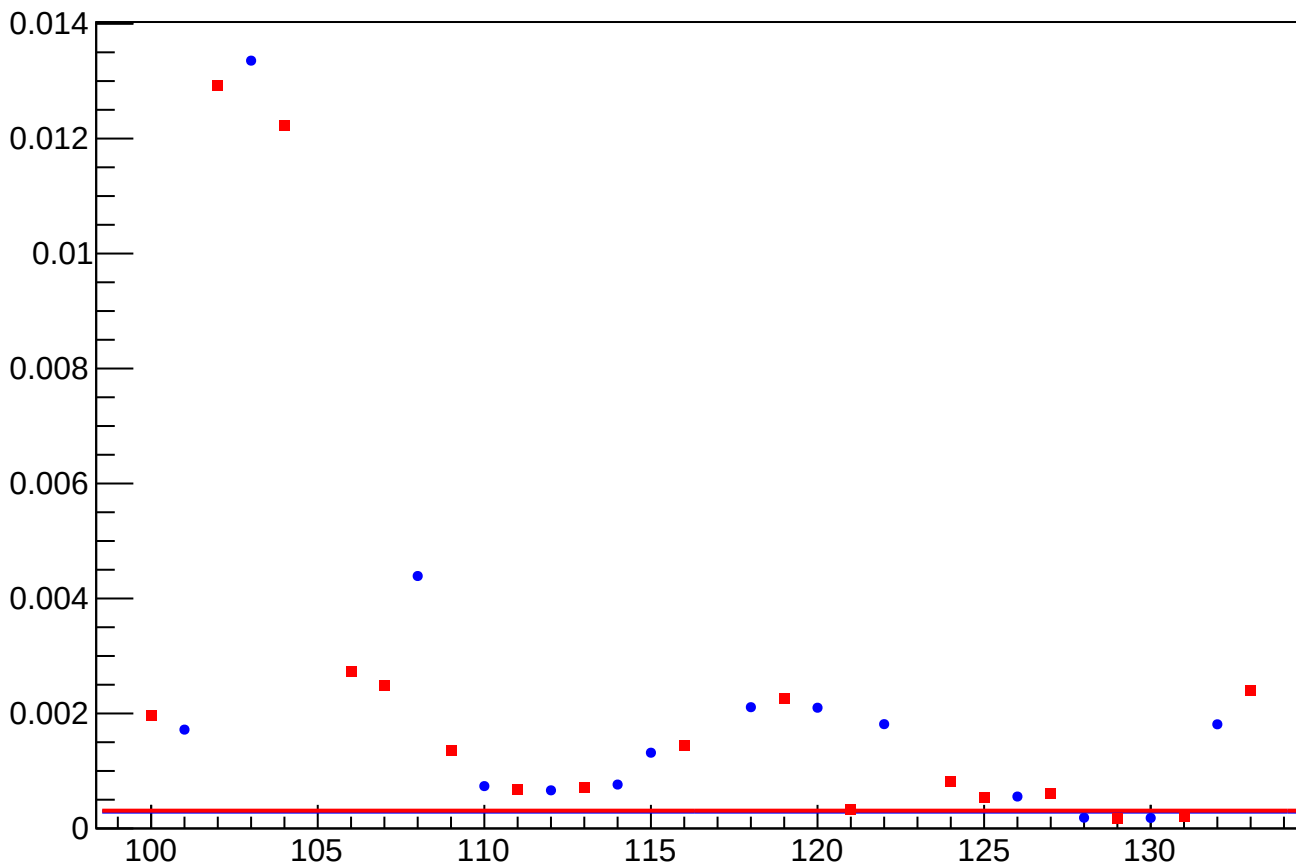
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 25.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6759774.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6867757.0/16

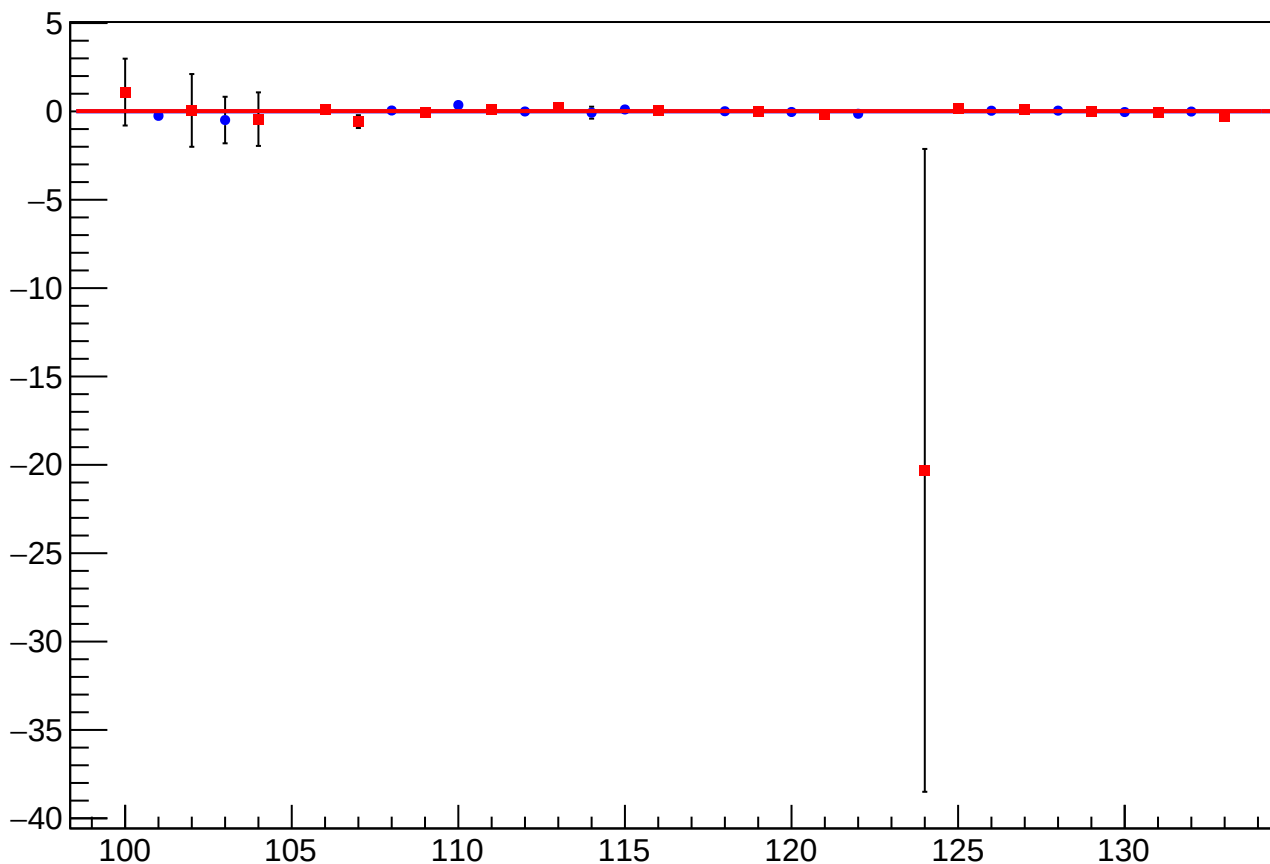
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13635186.7/30

- 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: 0.004 $\pm$ 0.028  $\chi^2$ /NDF: 11.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.017 $\pm$ 0.026  $\chi^2$ /NDF: 16.9/16

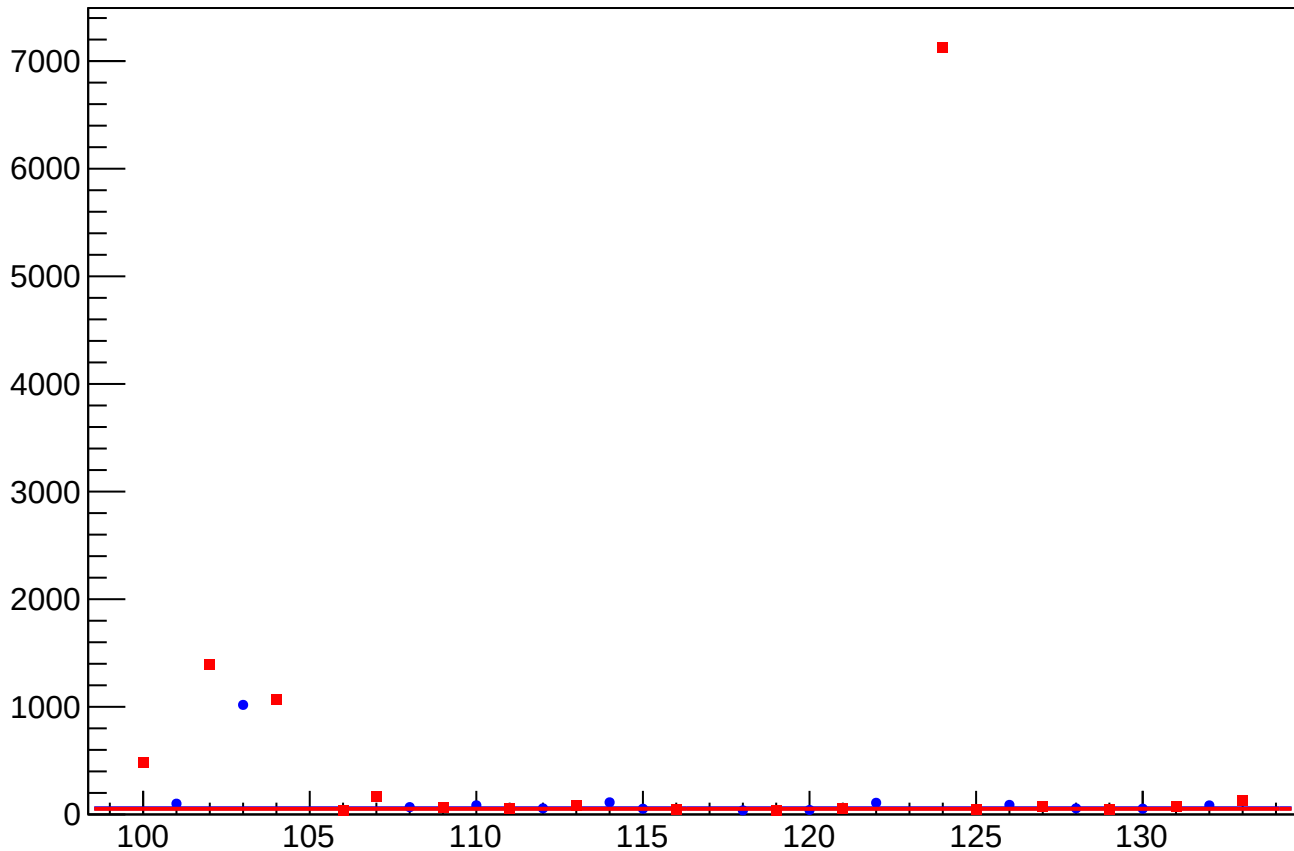
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

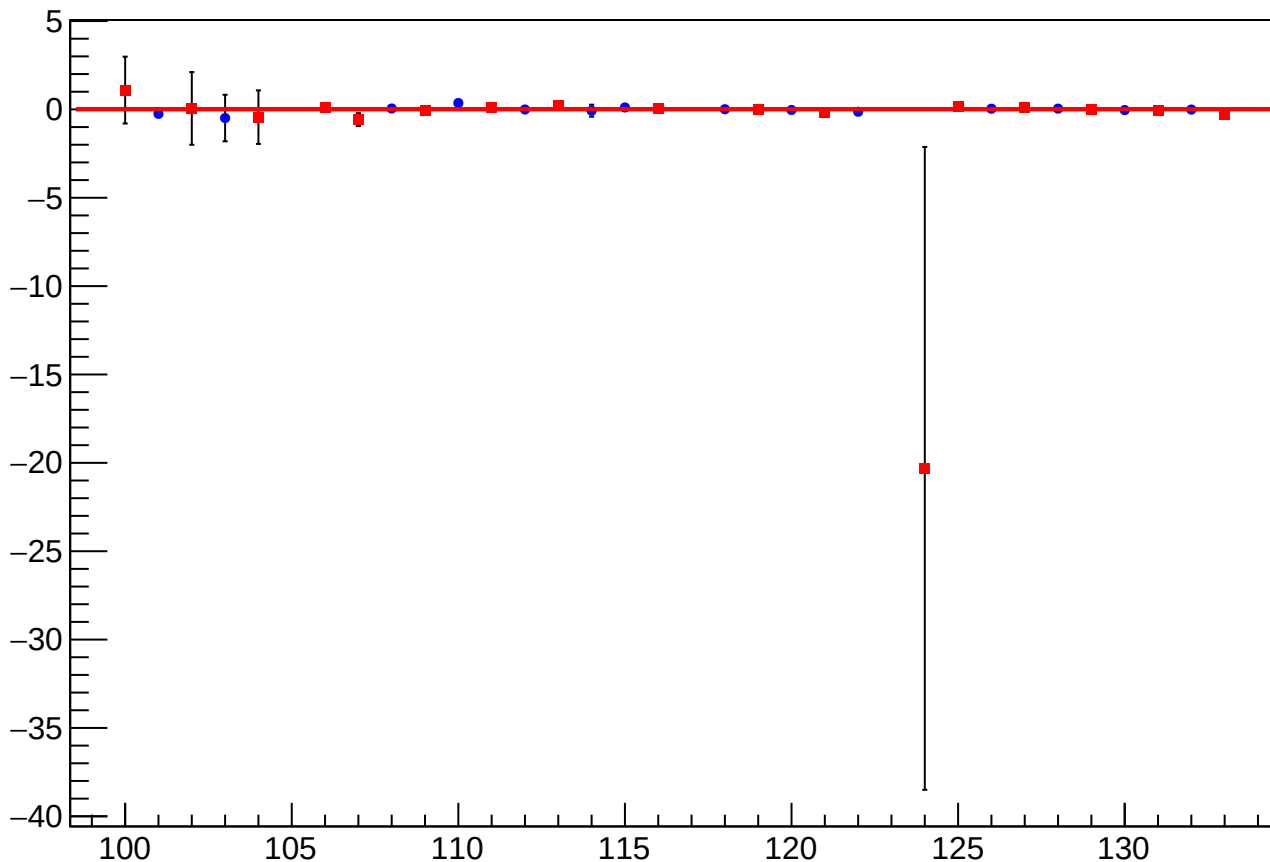
All: 0.011 $\pm$ 0.019  $\chi^2$ /NDF: 28.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



asym\_at1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.004 $\pm$ 0.028  $\chi^2$ /NDF: 11.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.017 $\pm$ 0.026  $\chi^2$ /NDF: 16.9/16

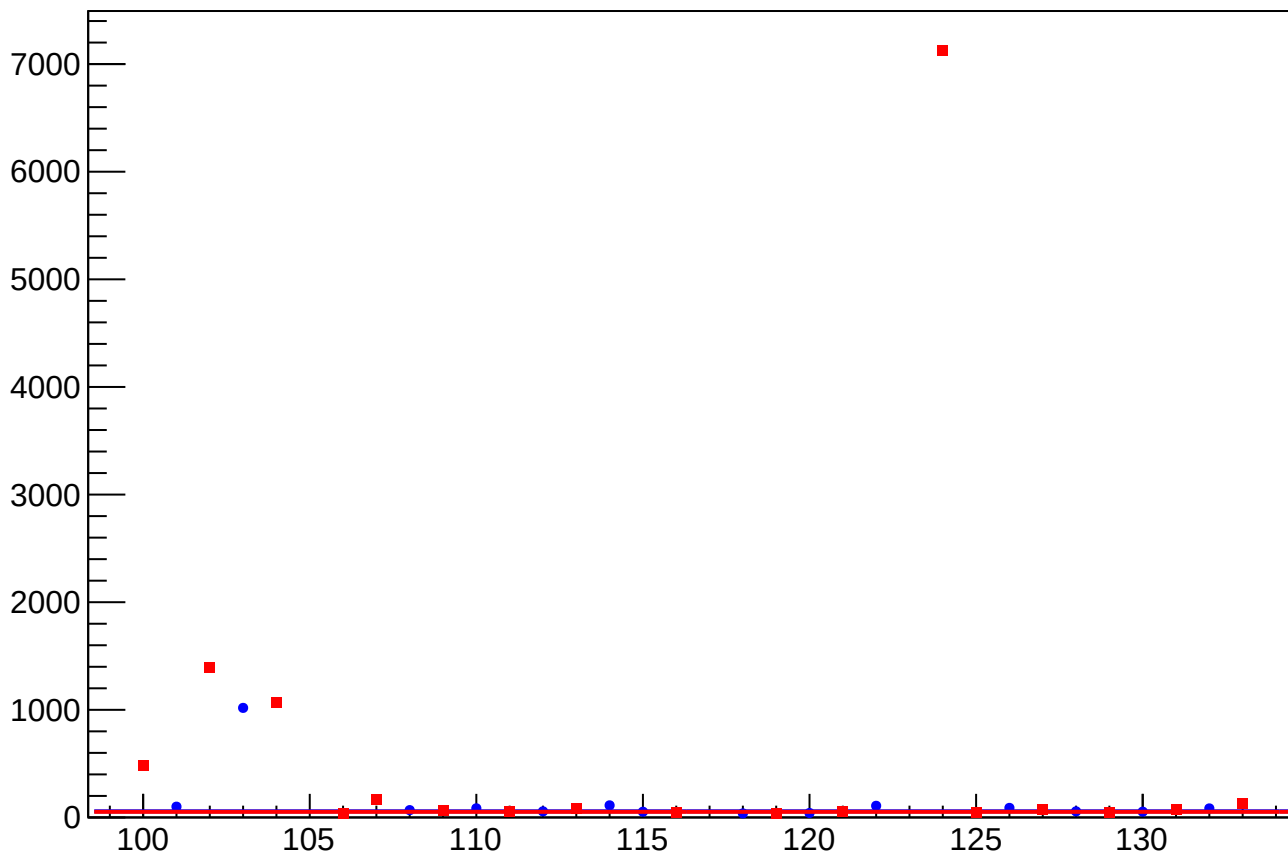
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.019  $\chi^2$ /NDF: 28.1/30

- 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: 57.341+/-0.020  $\chi^2/\text{NDF}$ : 2060393.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.295+/-0.019  $\chi^2/\text{NDF}$ : 3190205.2/16

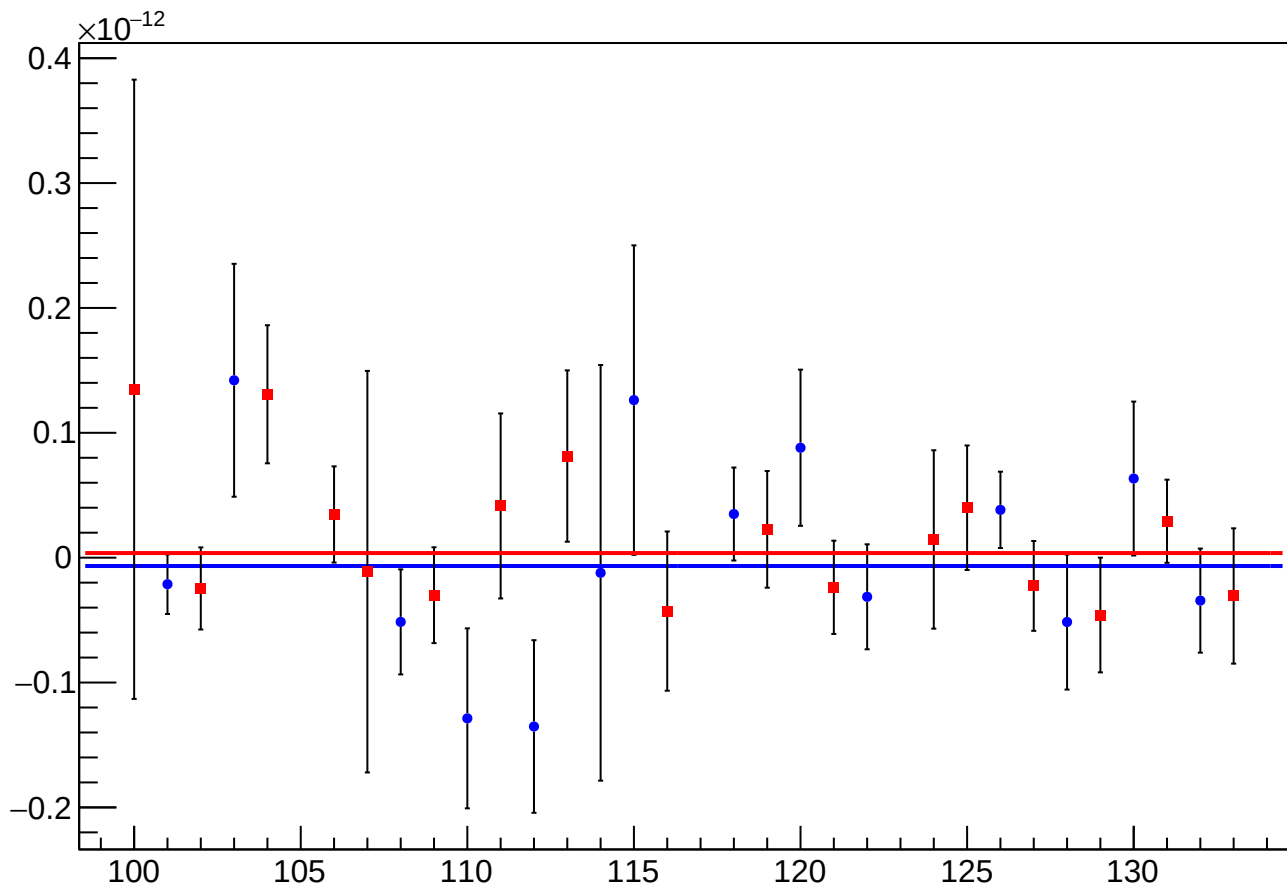
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.634+/-0.014  $\chi^2/\text{NDF}$ : 5284421.5/30

- 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  $\chi^2/\text{NDF}$ : 20.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.8/16

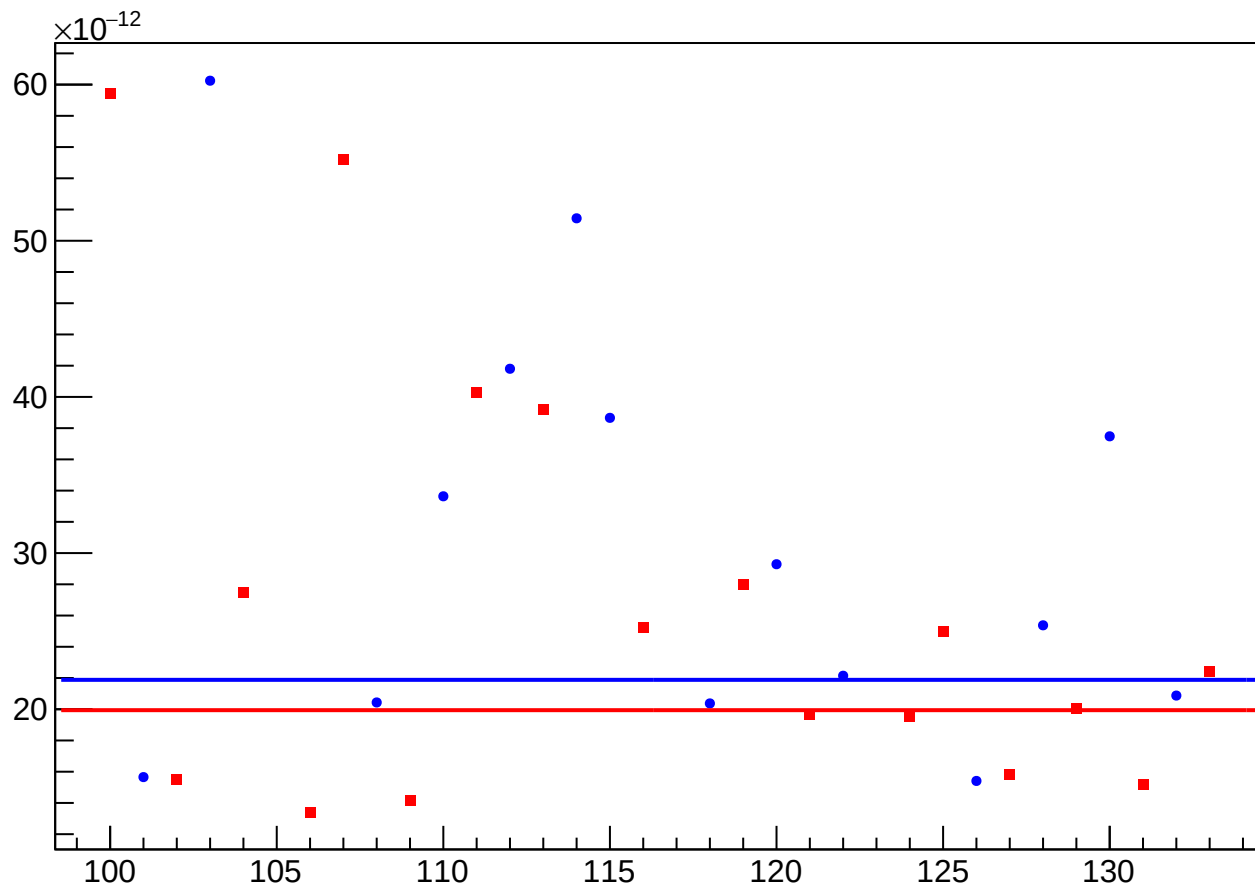
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 34.1/30

- 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  $\chi^2/\text{NDF}$ : 1054780.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 796356.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

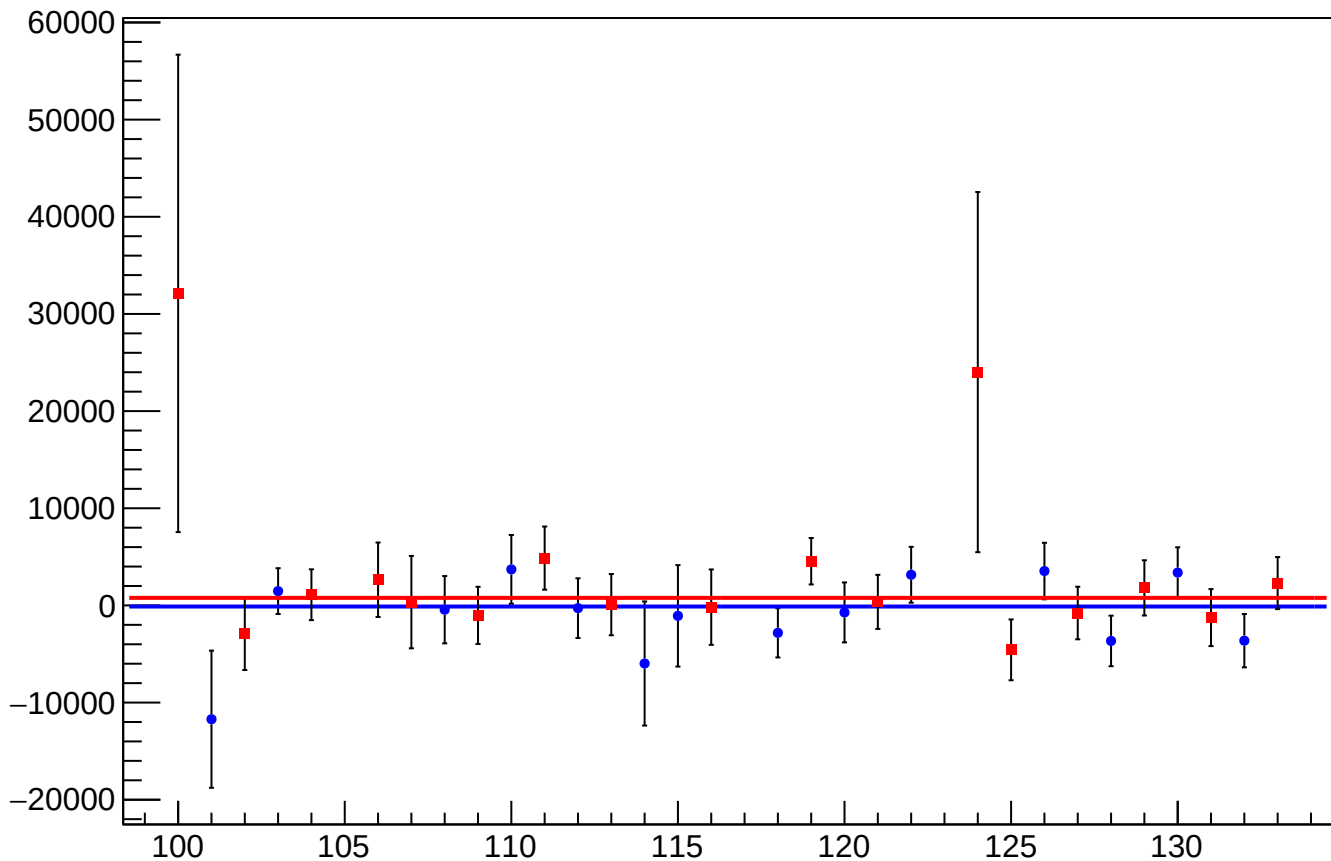
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1878014.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_at1\_dd\_mean vs Slug



Right In:  $-113.594 \pm 828.062$   $\chi^2/\text{NDF}$ : 14.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $777.531 \pm 781.972$   $\chi^2/\text{NDF}$ : 13.2/16

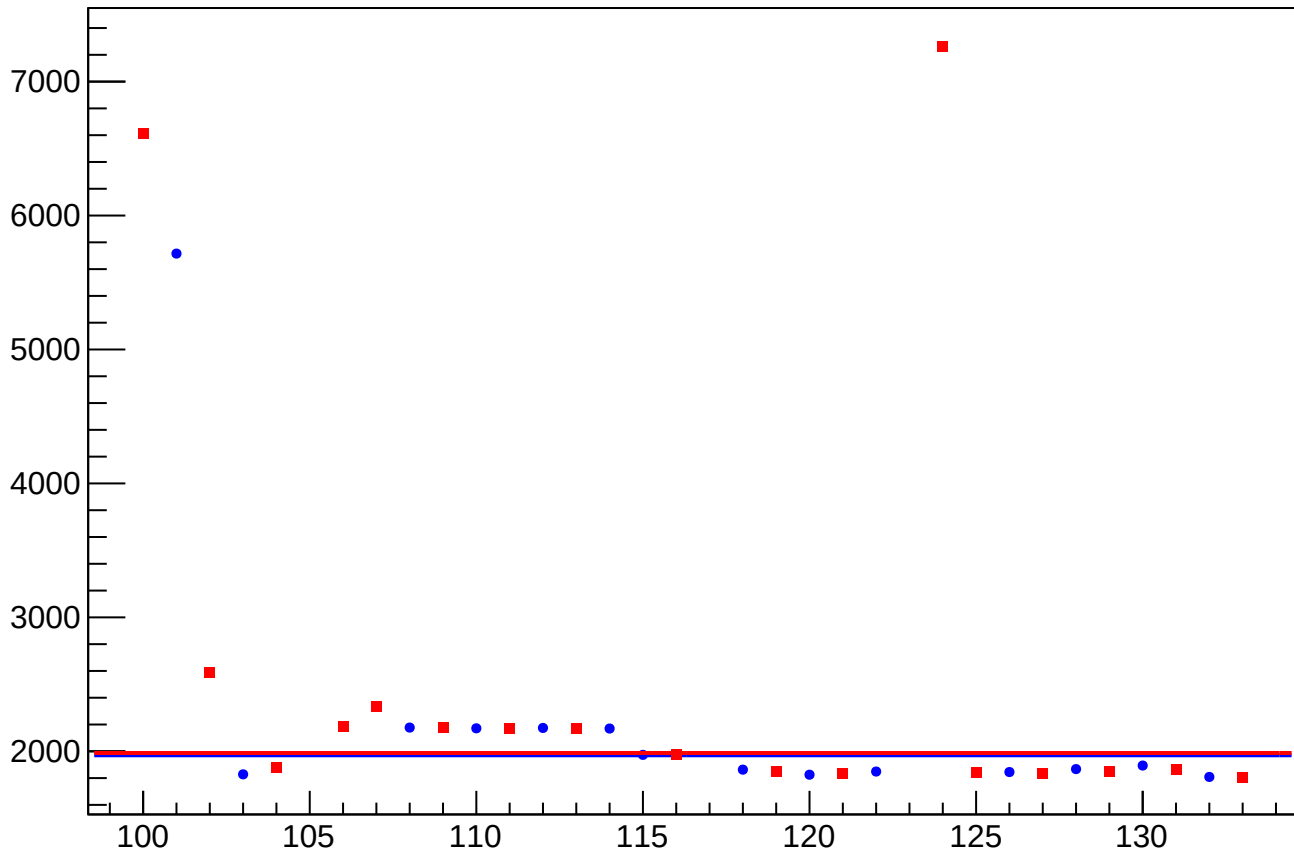
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $357.458 \pm 568.534$   $\chi^2/\text{NDF}$ : 28.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_rms vs Slug



Right In: 1970.402+/-0.586  $\chi^2/\text{NDF}$ : 621894.8/13

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

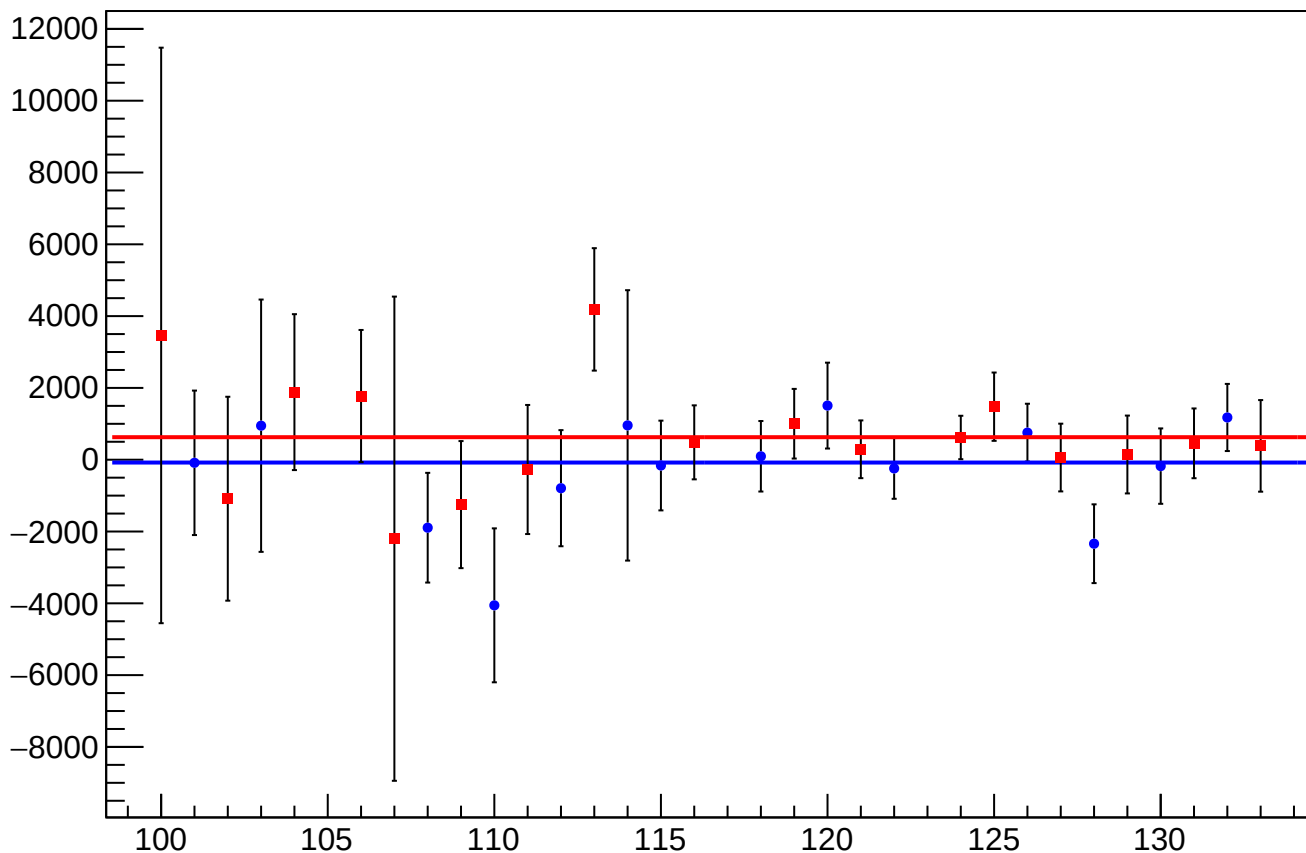
Right Out: 1987.474+/-0.553  $\chi^2/\text{NDF}$ : 368791.4/16

All: 1979.426+/-0.402  $\chi^2/\text{NDF}$ : 991135.6/30

- 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\_reg\_correction\_mean vs Slug



Right In: -78.773+/-322.320  $\chi^2/\text{NDF}$ : 14.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 627.570+/-280.822  $\chi^2/\text{NDF}$ : 8.9/16

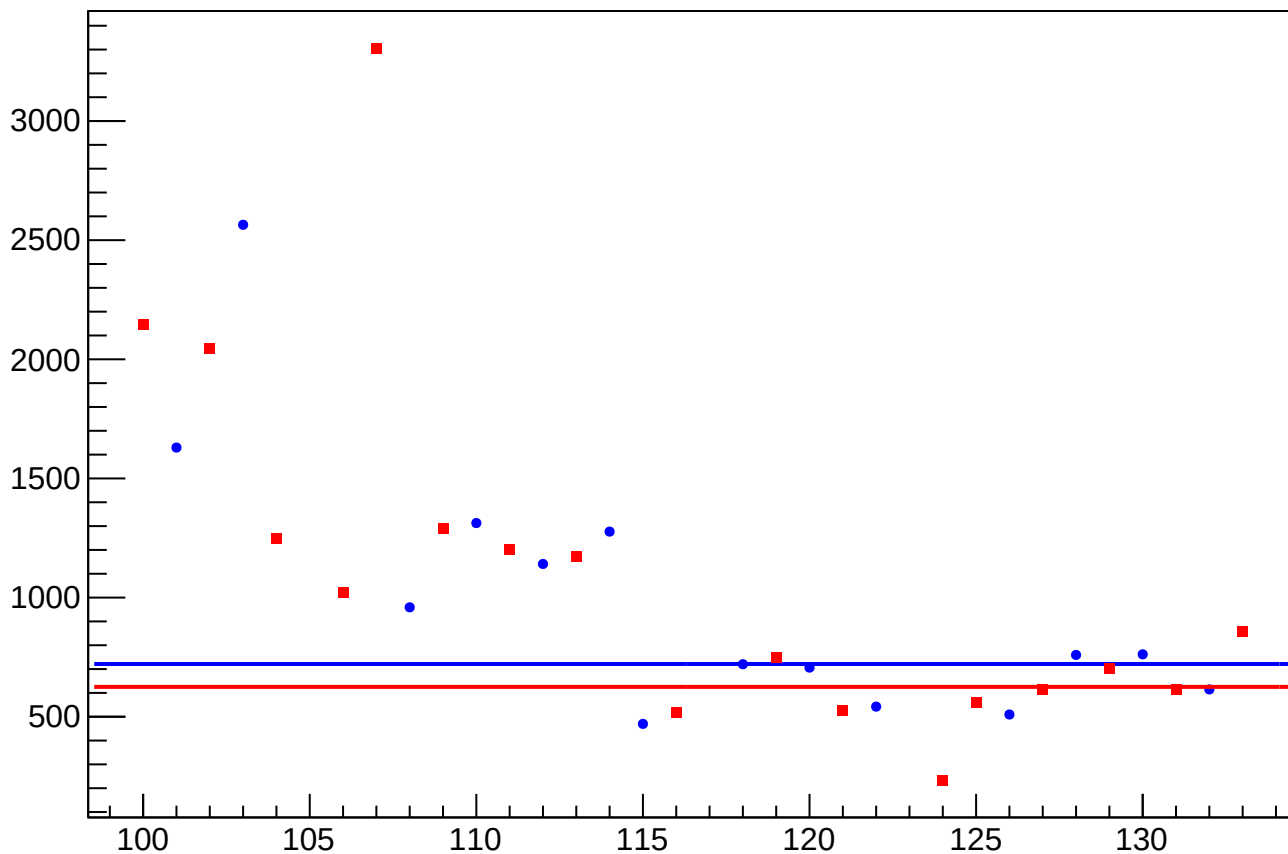
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 322.767+/-211.733  $\chi^2/\text{NDF}$ : 25.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_reg\_correction\_rms vs Slug



Right In: 721.336 $\pm$ 0.228  $\chi^2$ /NDF: 1677791.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 625.281 $\pm$ 0.199  $\chi^2$ /NDF: 2854545.2/16

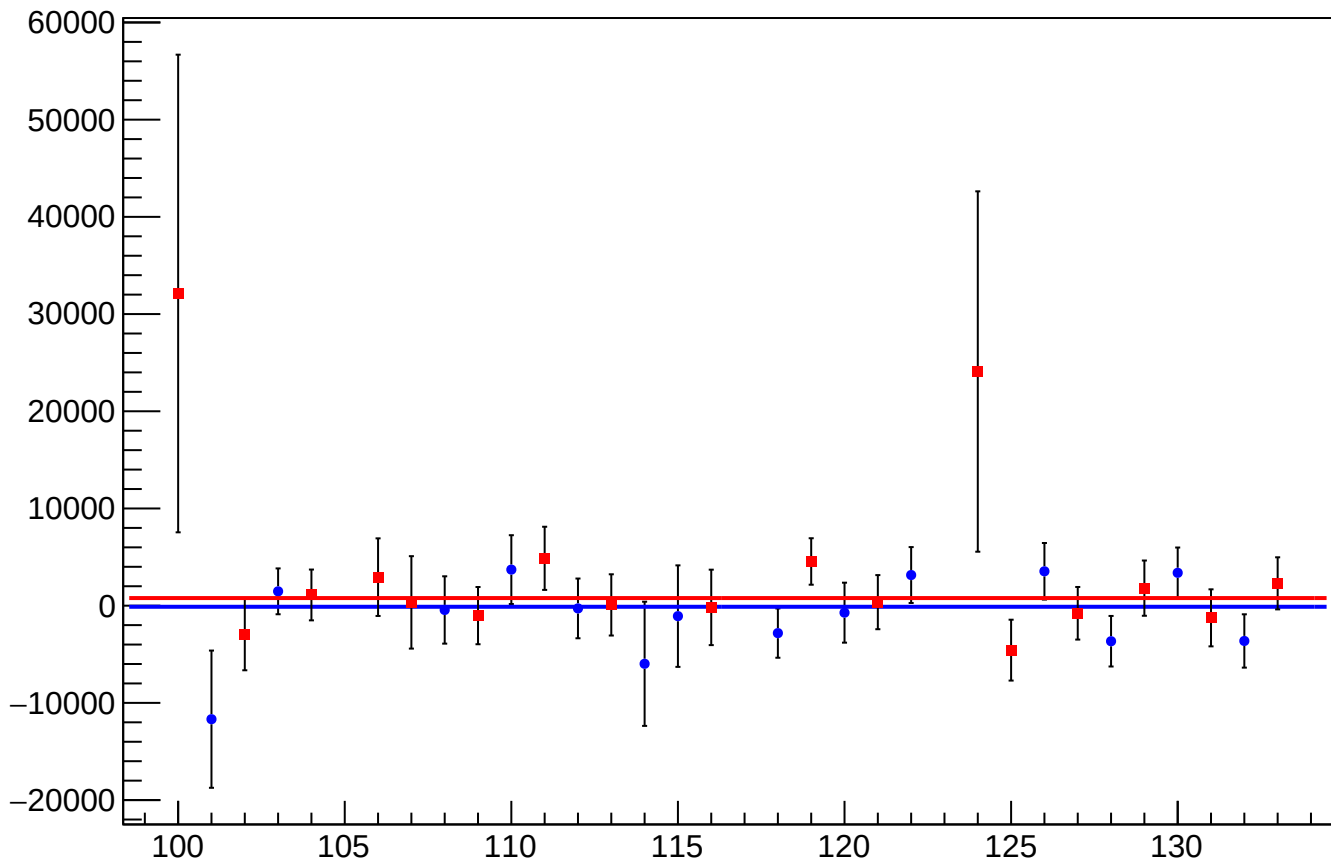
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 666.731 $\pm$ 0.150  $\chi^2$ /NDF: 4633311.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_at1\_dd\_mean vs Slug



Right In: -112.605+/-828.063  $\chi^2/\text{NDF}$ : 14.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 783.483+/-783.260  $\chi^2/\text{NDF}$ : 13.3/16

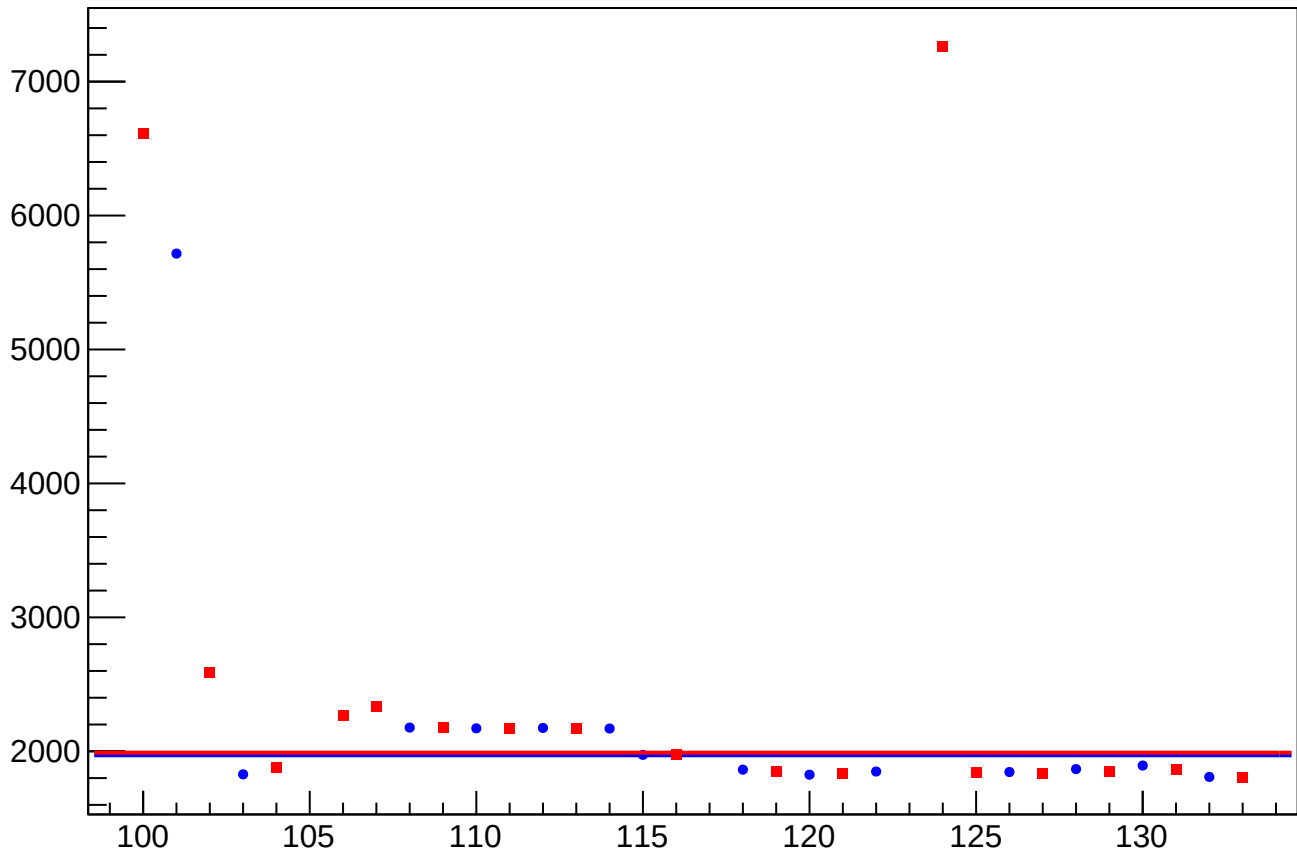
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 360.335+/-569.028  $\chi^2/\text{NDF}$ : 28.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_at1\_dd\_rms vs Slug



Right In: 1970.402 $\pm$ 0.586  $\chi^2$ /NDF: 621894.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1989.969 $\pm$ 0.554  $\chi^2$ /NDF: 373292.3/16

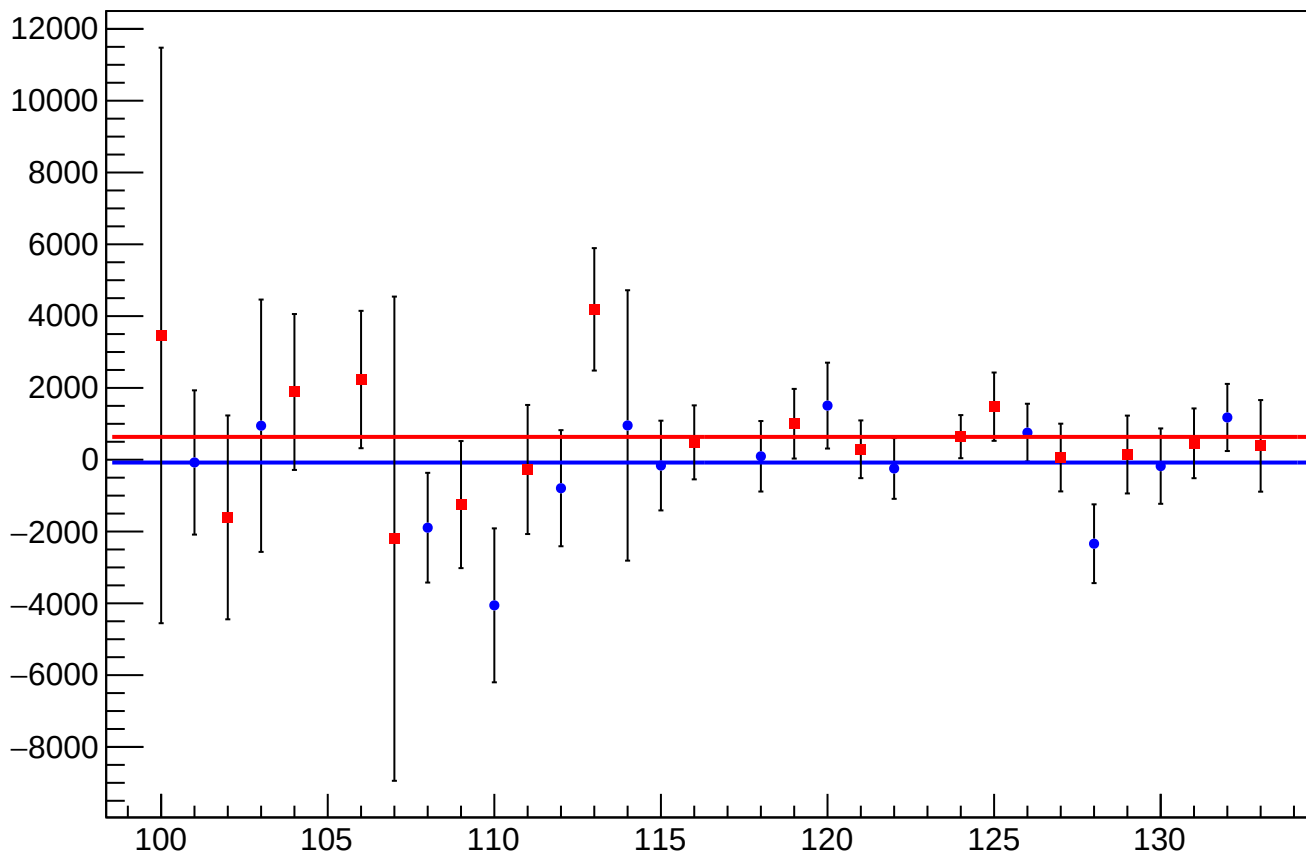
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1980.729 $\pm$ 0.402  $\chi^2$ /NDF: 995776.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_cor\_correction\_mean vs Slug



Right In: -78.635+/-322.300  $\chi^2/\text{NDF}$ : 14.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 635.672+/-280.620  $\chi^2/\text{NDF}$ : 9.5/16

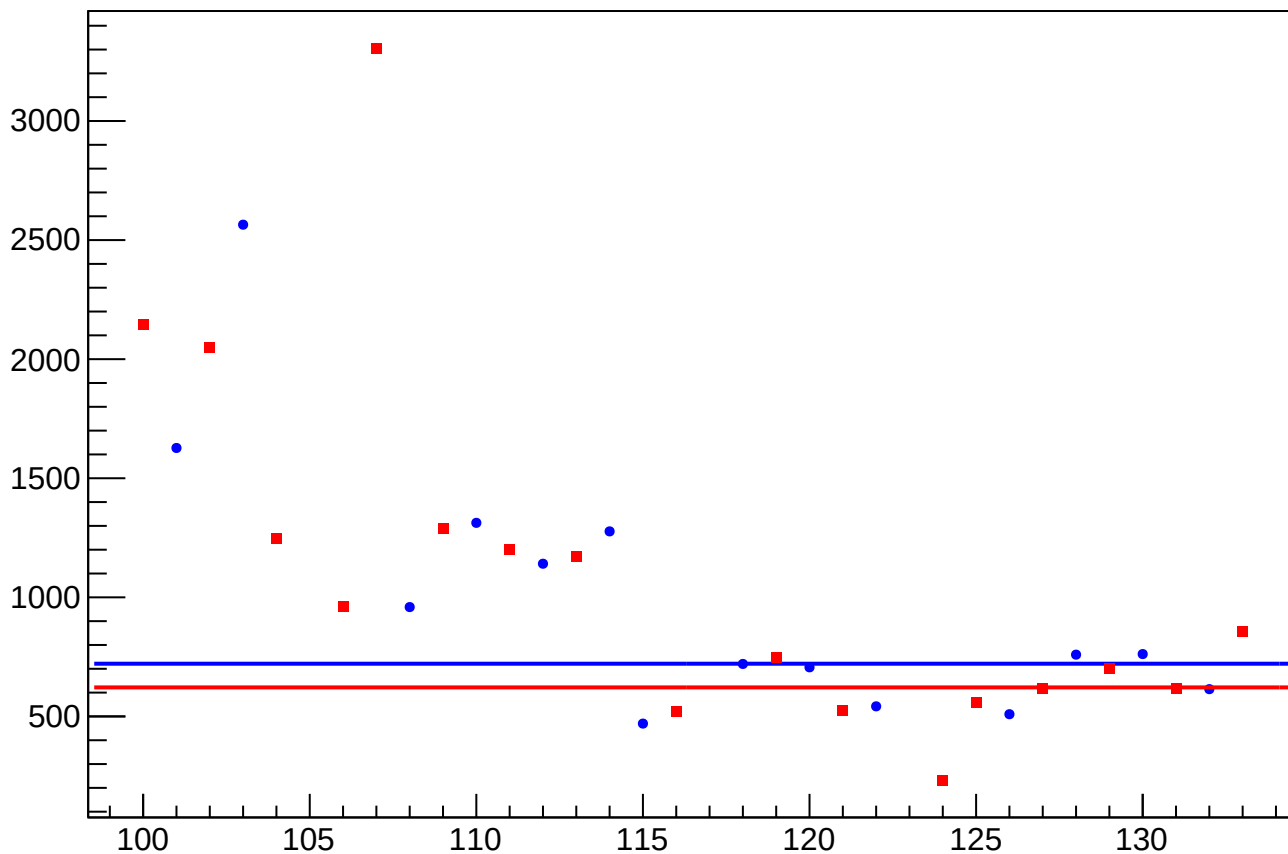
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 327.664+/-211.641  $\chi^2/\text{NDF}$ : 26.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_cor\_correction\_rms vs Slug



Right In: 721.325+/-0.228  $\chi^2/\text{NDF}$ : 1676934.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 621.839+/-0.198  $\chi^2/\text{NDF}$ : 2845243.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

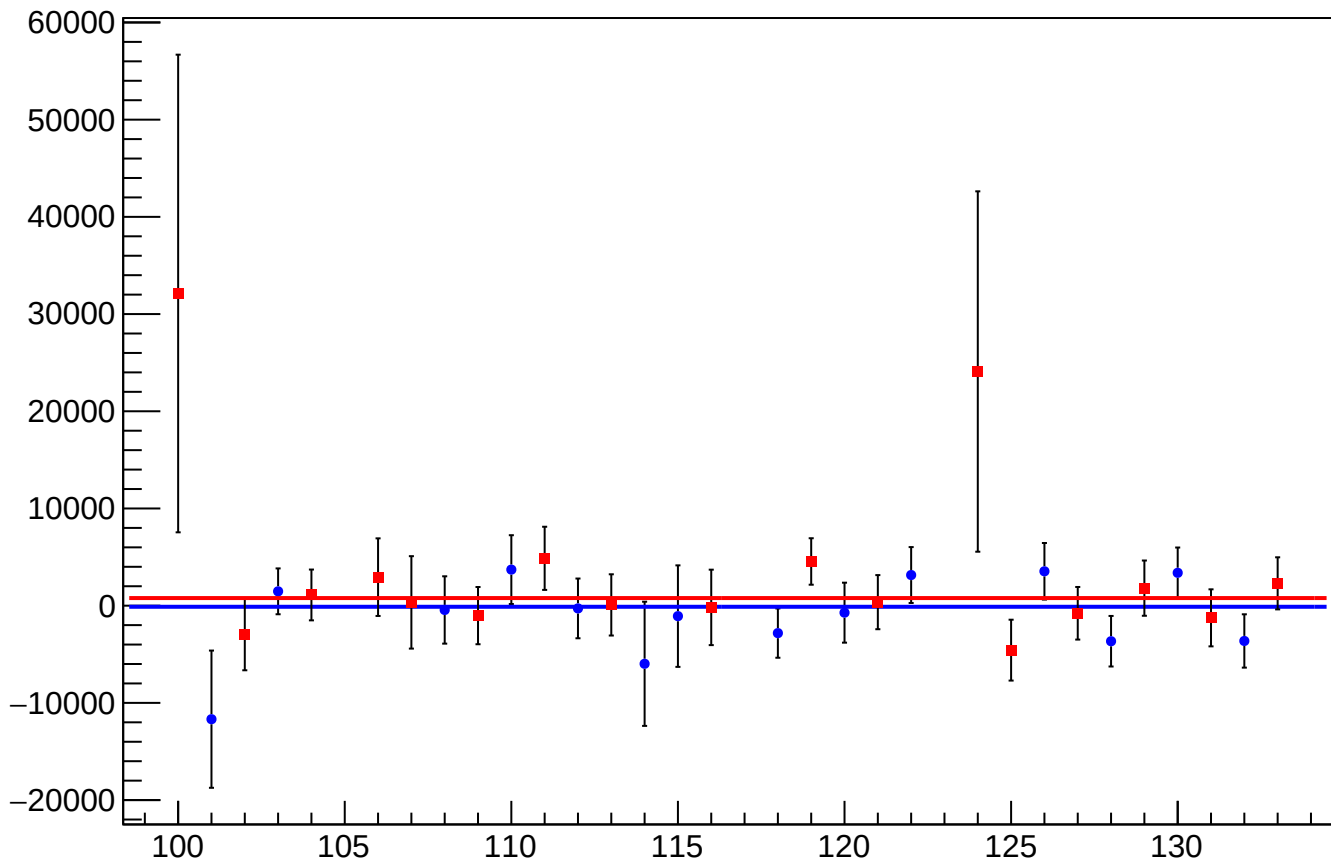
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 664.737+/-0.150  $\chi^2/\text{NDF}$ : 4630569.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_at1\_dd\_mean vs Slug



Right In: -112.605+/-828.063  $\chi^2/\text{NDF}$ : 14.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 783.483+/-783.260  $\chi^2/\text{NDF}$ : 13.3/16

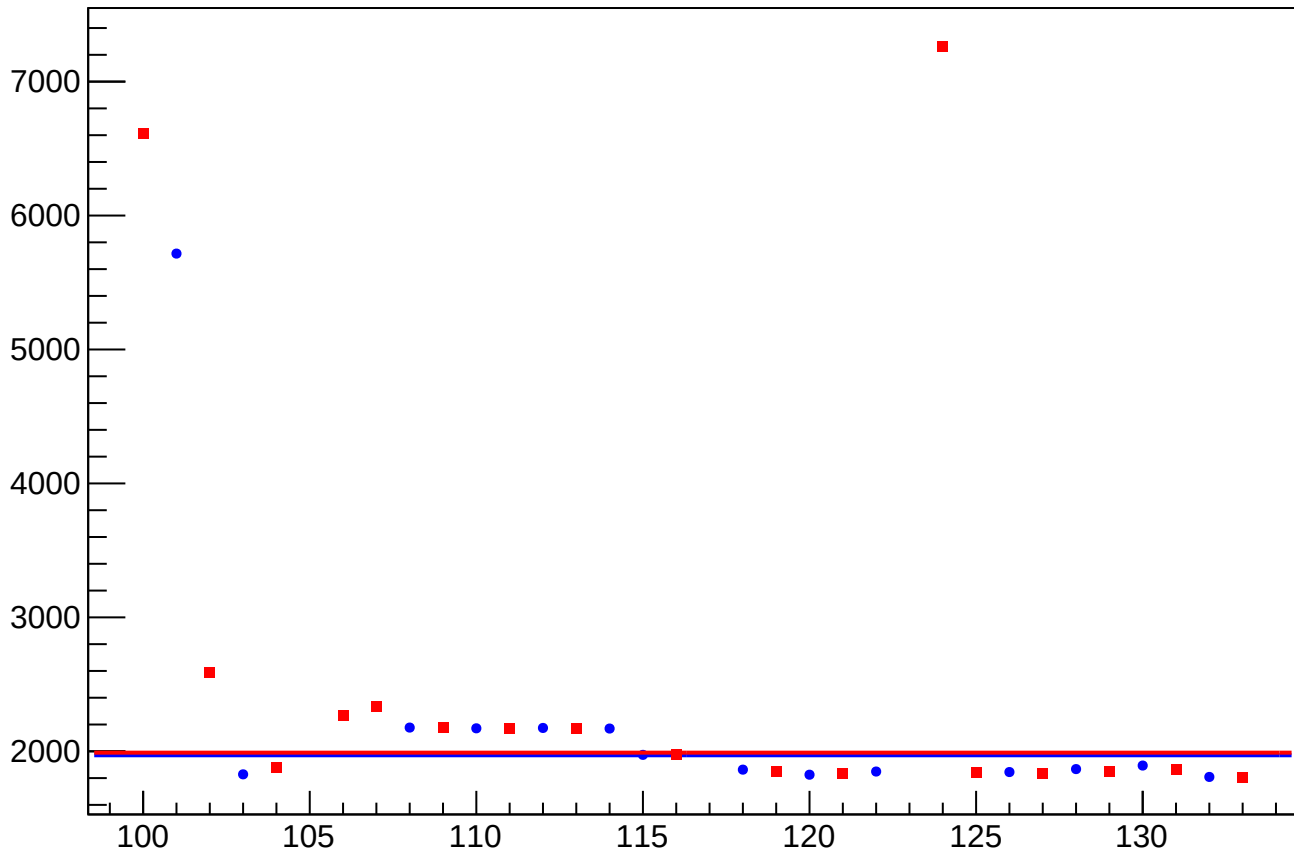
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 360.335+/-569.028  $\chi^2/\text{NDF}$ : 28.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_at1\_dd\_rms vs Slug



Right In: 1970.402 $\pm$ 0.586  $\chi^2$ /NDF: 621894.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1989.969 $\pm$ 0.554  $\chi^2$ /NDF: 373292.3/16

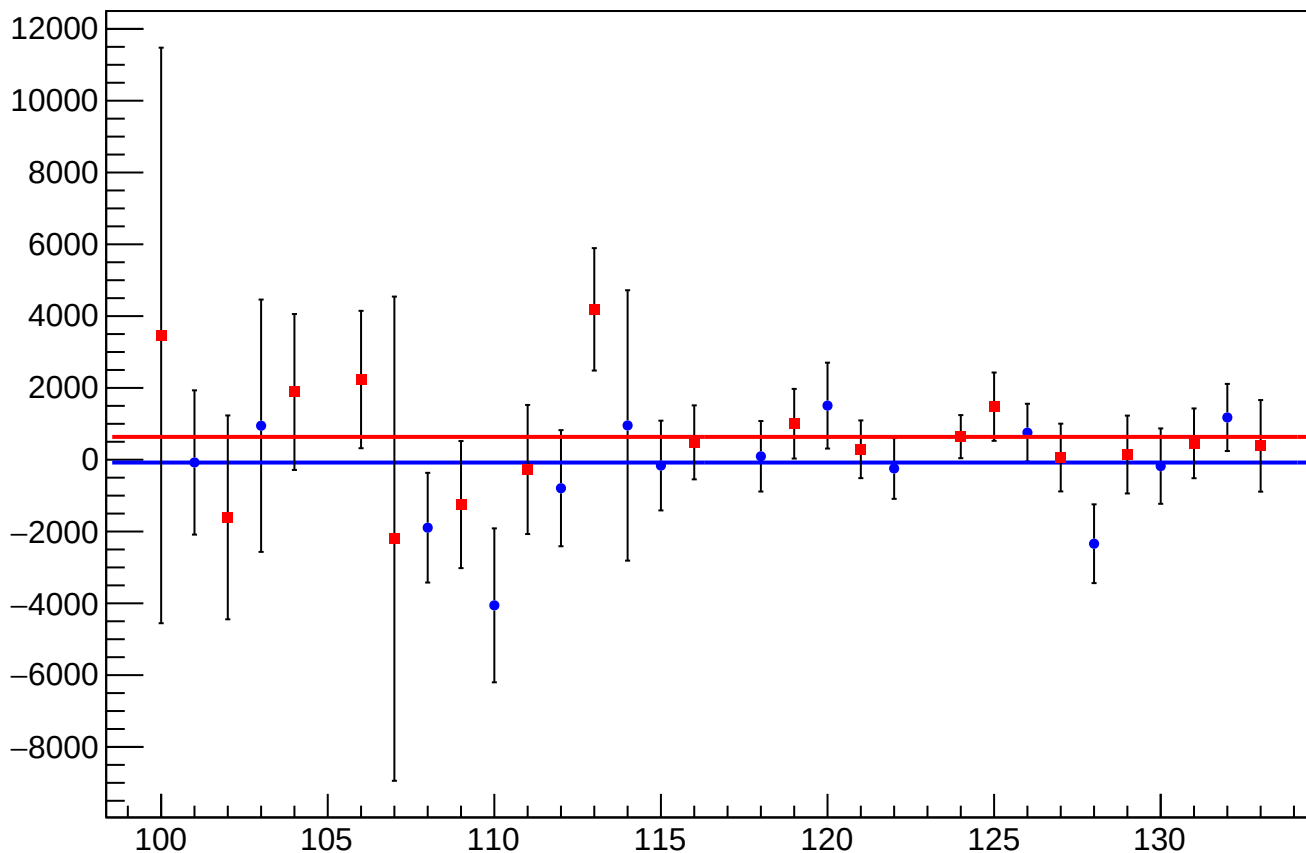
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1980.729 $\pm$ 0.402  $\chi^2$ /NDF: 995776.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -78.635+/-322.300  $\chi^2/\text{NDF}$ : 14.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 635.672+/-280.620  $\chi^2/\text{NDF}$ : 9.5/16

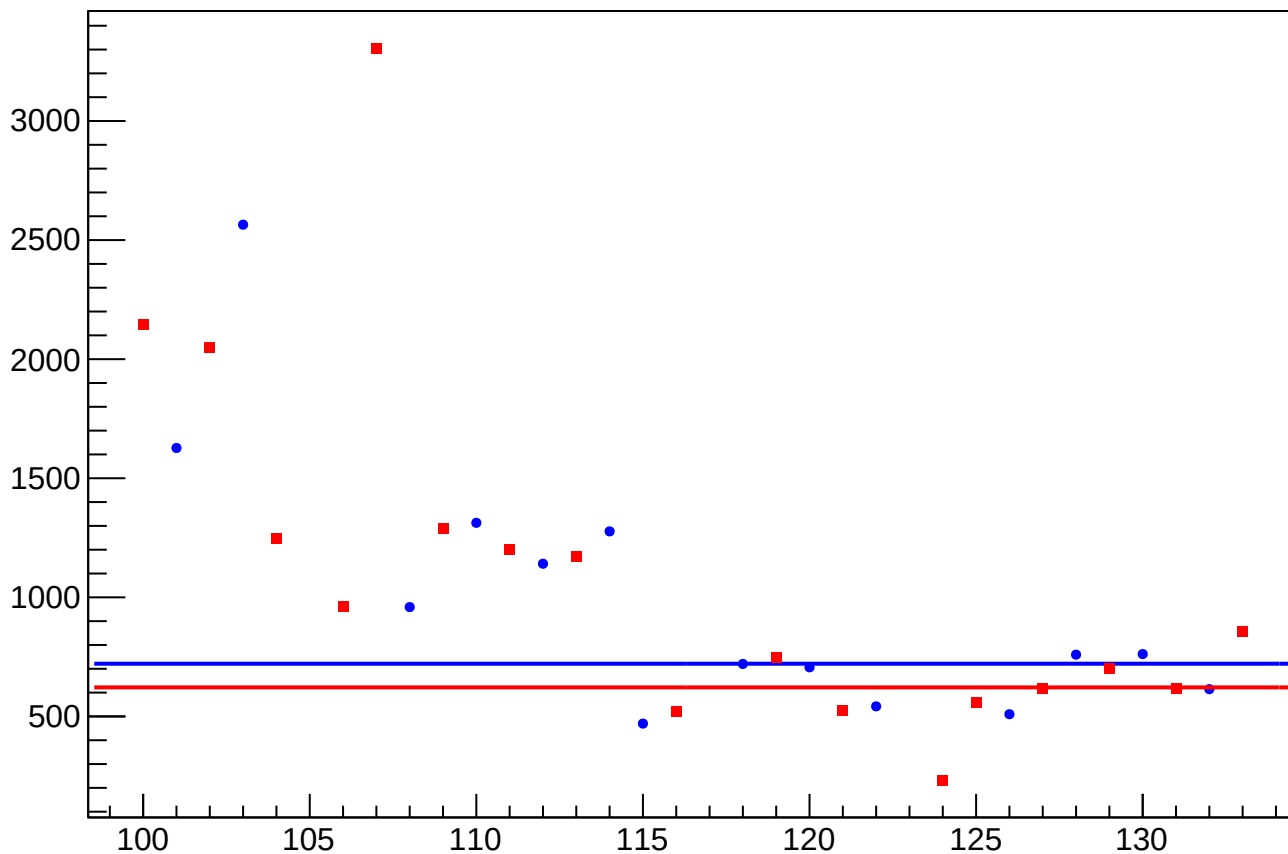
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 327.664+/-211.641  $\chi^2/\text{NDF}$ : 26.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 721.325+/-0.228  $\chi^2/\text{NDF}$ : 1676934.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 621.839+/-0.198  $\chi^2/\text{NDF}$ : 2845243.7/16

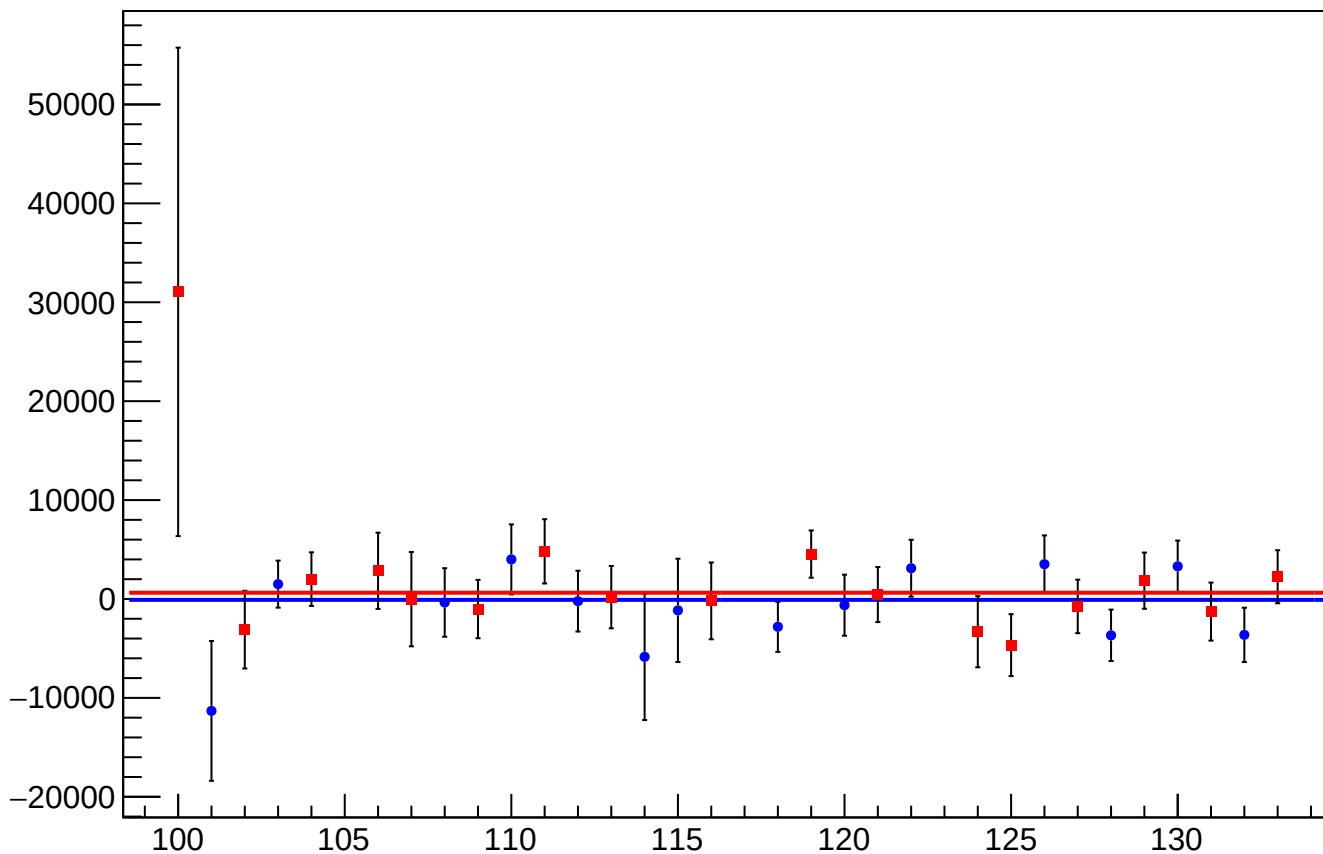
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 664.737+/-0.150  $\chi^2/\text{NDF}$ : 4630569.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_at1\_dd\_mean vs Slug



Right In:  $-88.621 \pm 829.099$   $\chi^2/\text{NDF}$ : 14.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $633.904 \pm 769.363$   $\chi^2/\text{NDF}$ : 13.0/16

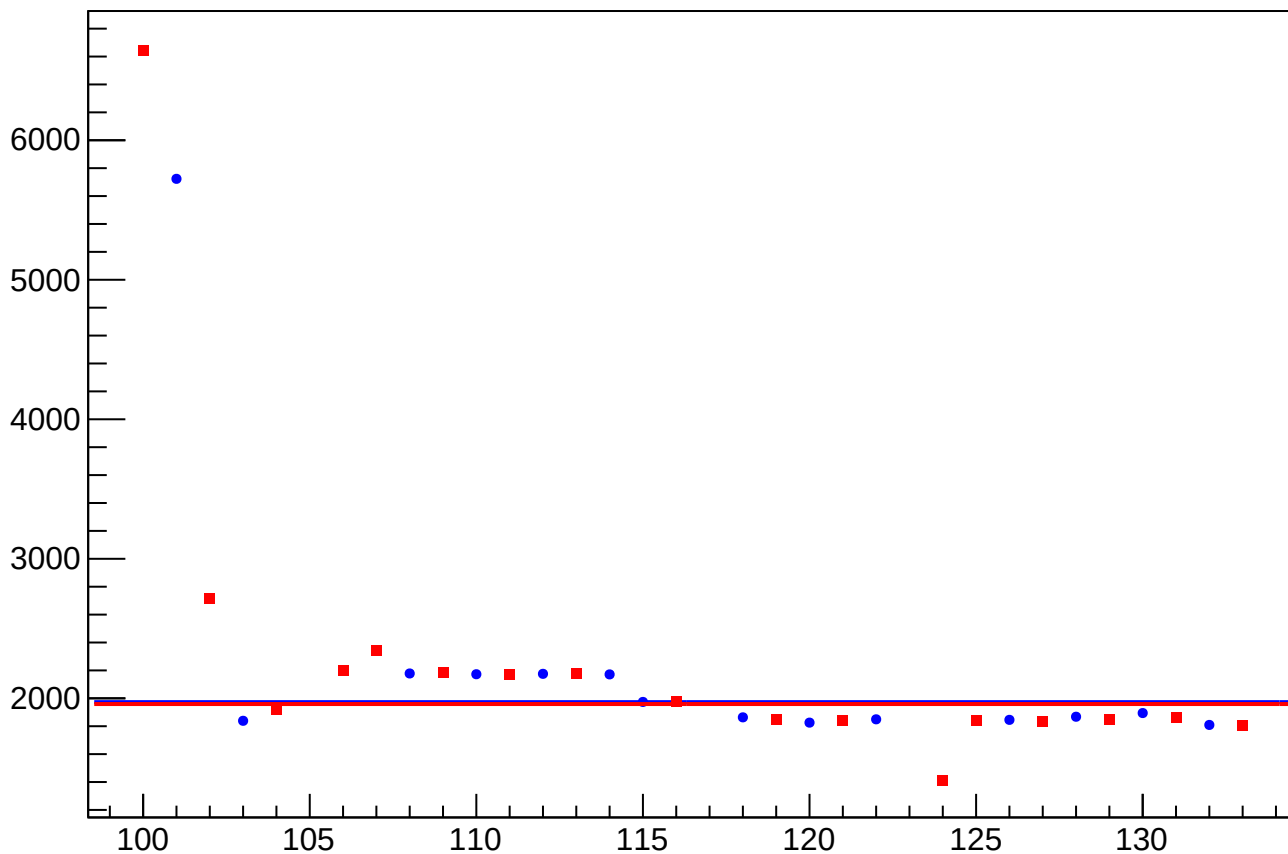
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $299.605 \pm 563.959$   $\chi^2/\text{NDF}$ : 27.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_at1\_dd\_rms vs Slug



Right In: 1972.537 $\pm$ 0.586  $\chi^2$ /NDF: 621476.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1958.990 $\pm$ 0.544  $\chi^2$ /NDF: 269760.6/16

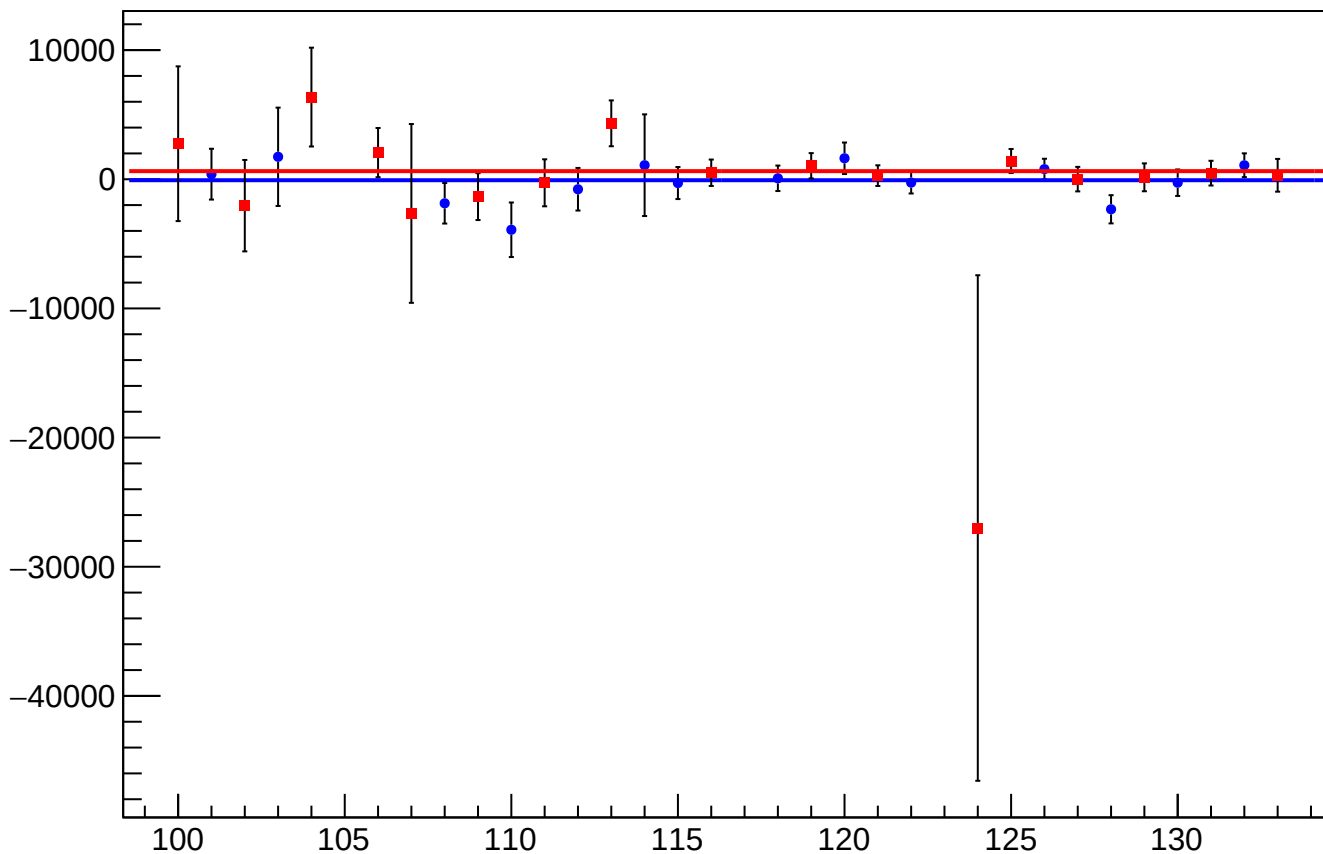
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1965.258 $\pm$ 0.399  $\chi^2$ /NDF: 891524.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_dit\_correction\_mean vs Slug



Right In:  $-74.393 \pm 321.581$   $\chi^2/\text{NDF}$ : 14.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $628.925 \pm 319.463$   $\chi^2/\text{NDF}$ : 13.3/16

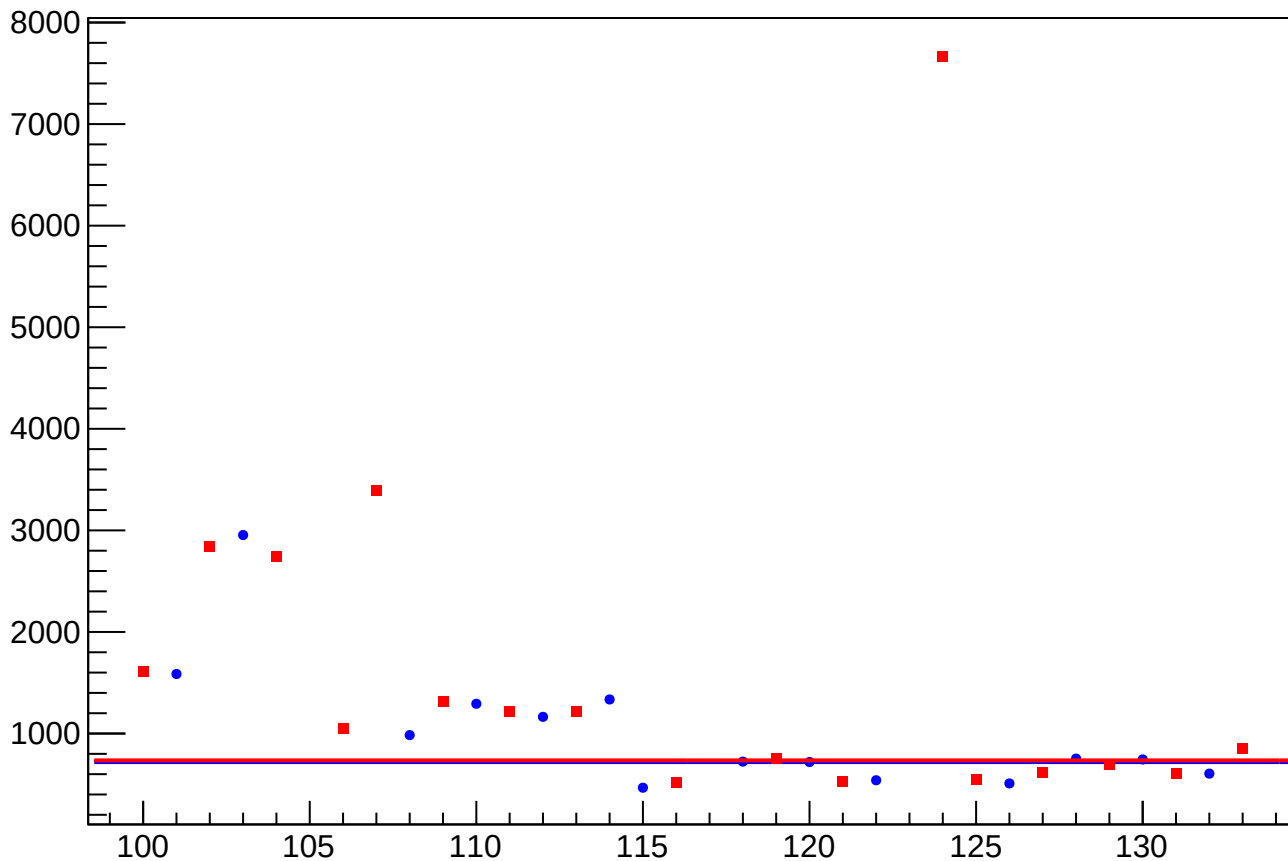
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $279.589 \pm 226.640$   $\chi^2/\text{NDF}$ : 29.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_dit\_correction\_rms vs Slug



Right In: 719.094+/-0.227  $\chi^2/\text{NDF}$ : 1821821.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 735.583+/-0.226  $\chi^2/\text{NDF}$ : 2797320.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

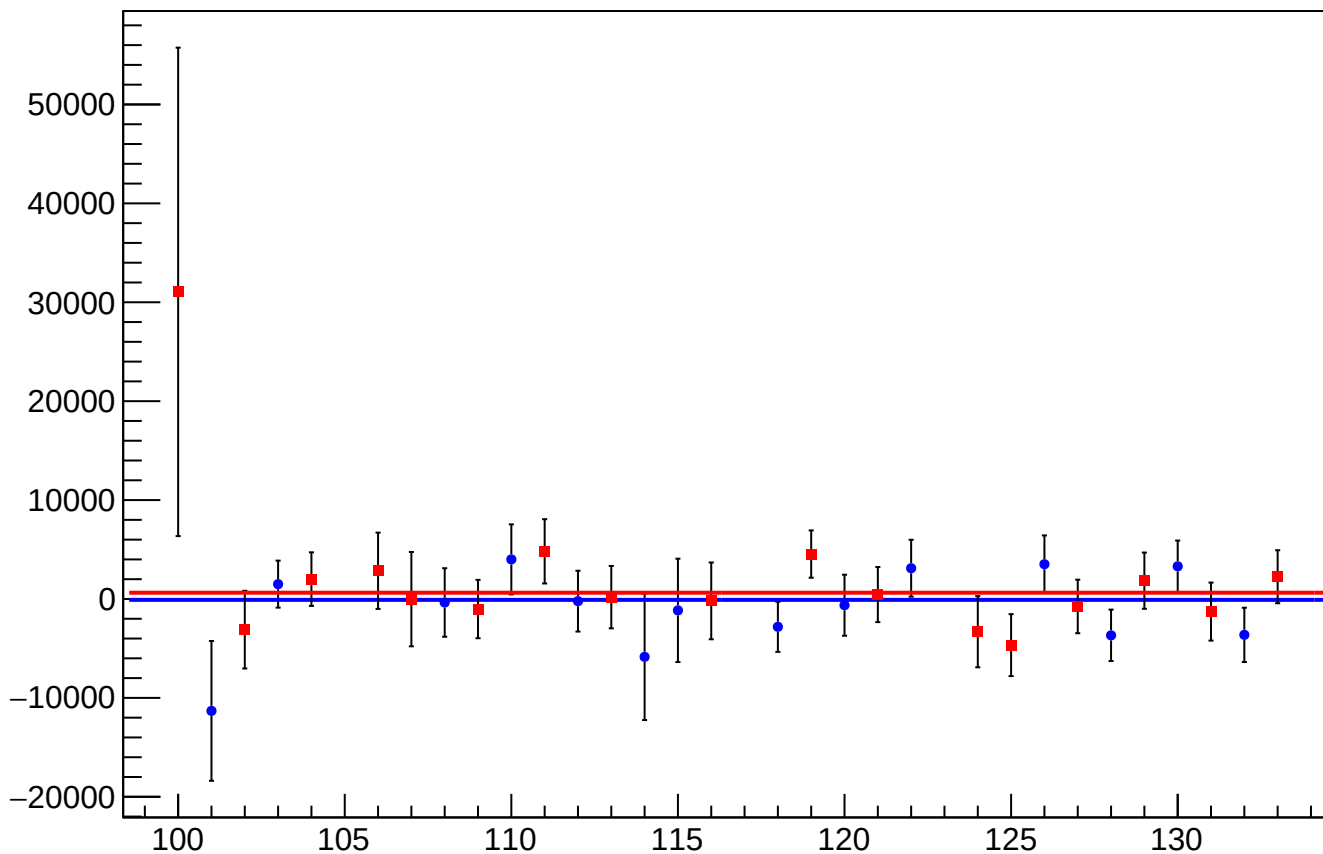
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 727.393+/-0.160  $\chi^2/\text{NDF}$ : 4621789.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_at1\_dd\_mean vs Slug



Right In:  $-88.622 \pm 829.099$   $\chi^2/\text{NDF}$ : 14.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $633.905 \pm 769.363$   $\chi^2/\text{NDF}$ : 13.0/16

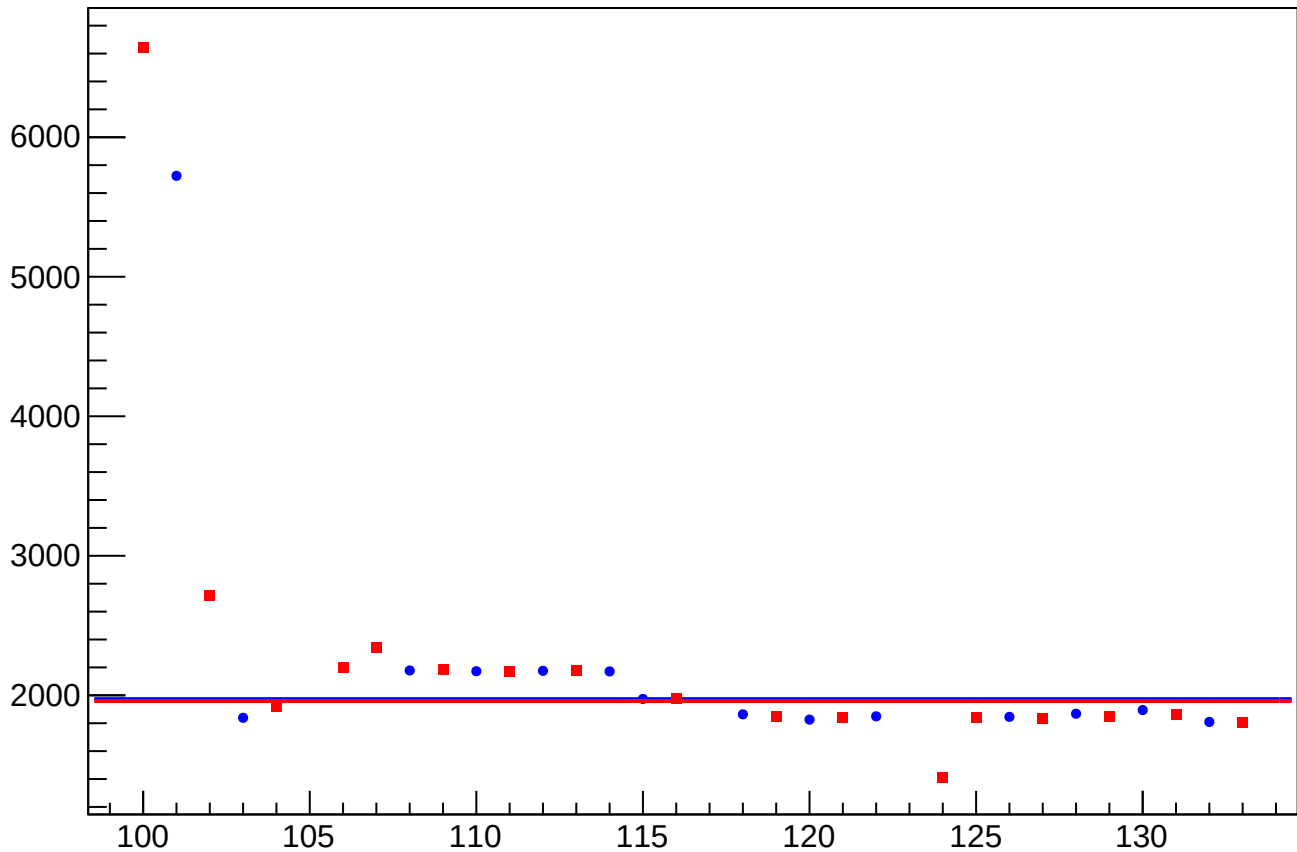
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $299.605 \pm 563.959$   $\chi^2/\text{NDF}$ : 27.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_at1\_dd\_rms vs Slug



Right In: 1972.537 $\pm$ 0.586  $\chi^2$ /NDF: 621476.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1958.990 $\pm$ 0.544  $\chi^2$ /NDF: 269760.4/16

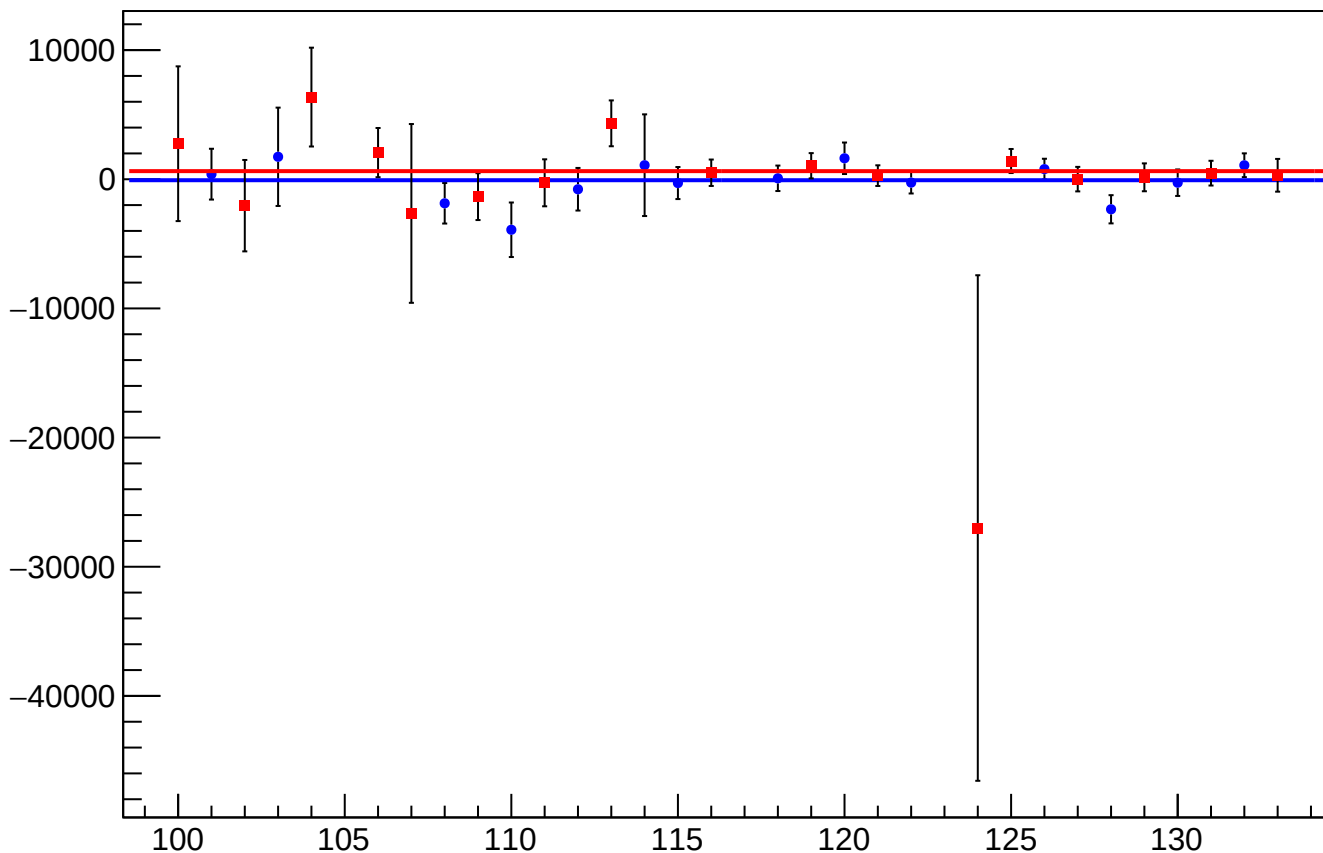
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1965.258 $\pm$ 0.399  $\chi^2$ /NDF: 891523.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In:  $-74.395 \pm 321.581$   $\chi^2/\text{NDF}$ : 14.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $628.925 \pm 319.463$   $\chi^2/\text{NDF}$ : 13.3/16

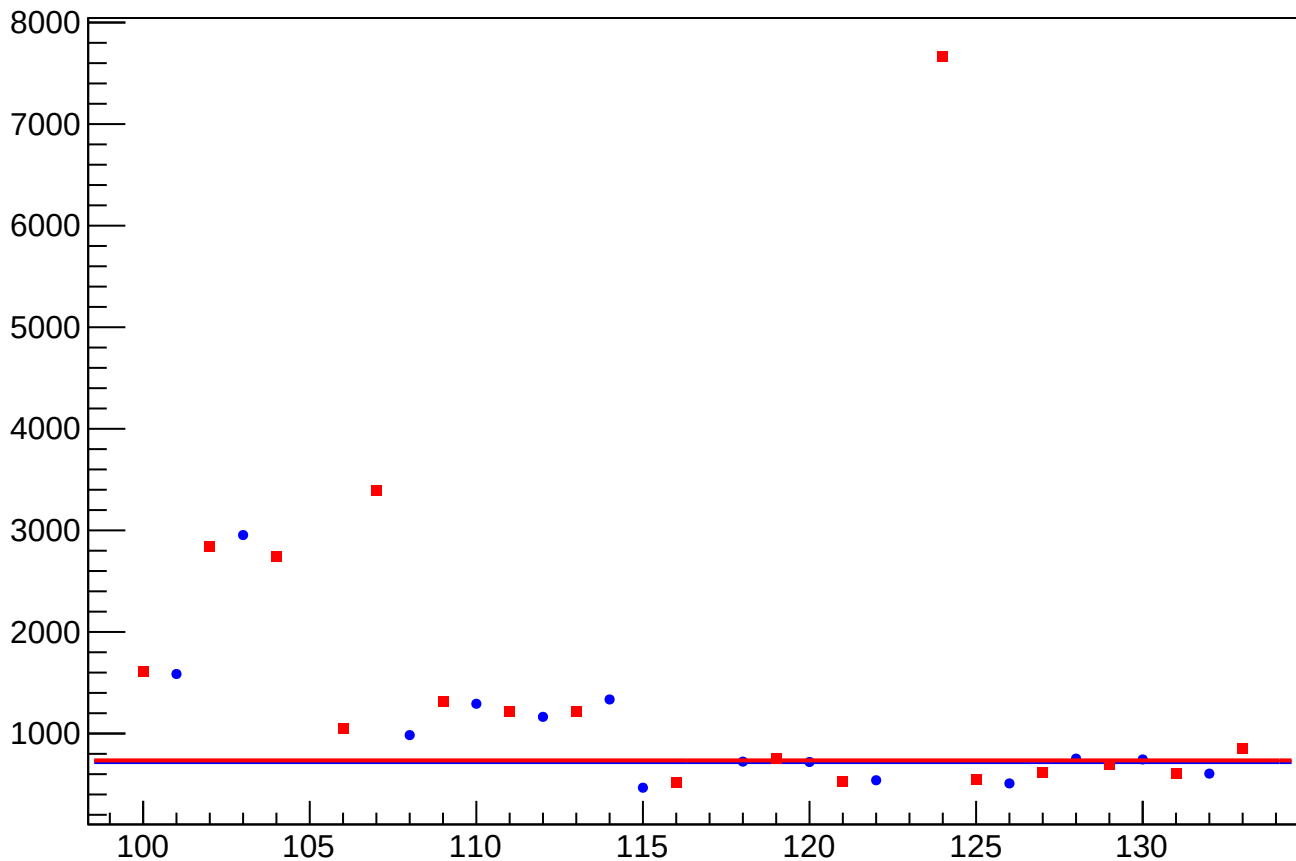
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $279.588 \pm 226.639$   $\chi^2/\text{NDF}$ : 29.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 719.094+/-0.227  $\chi^2/\text{NDF}$ : 1821820.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 735.583+/-0.226  $\chi^2/\text{NDF}$ : 2797321.4/16

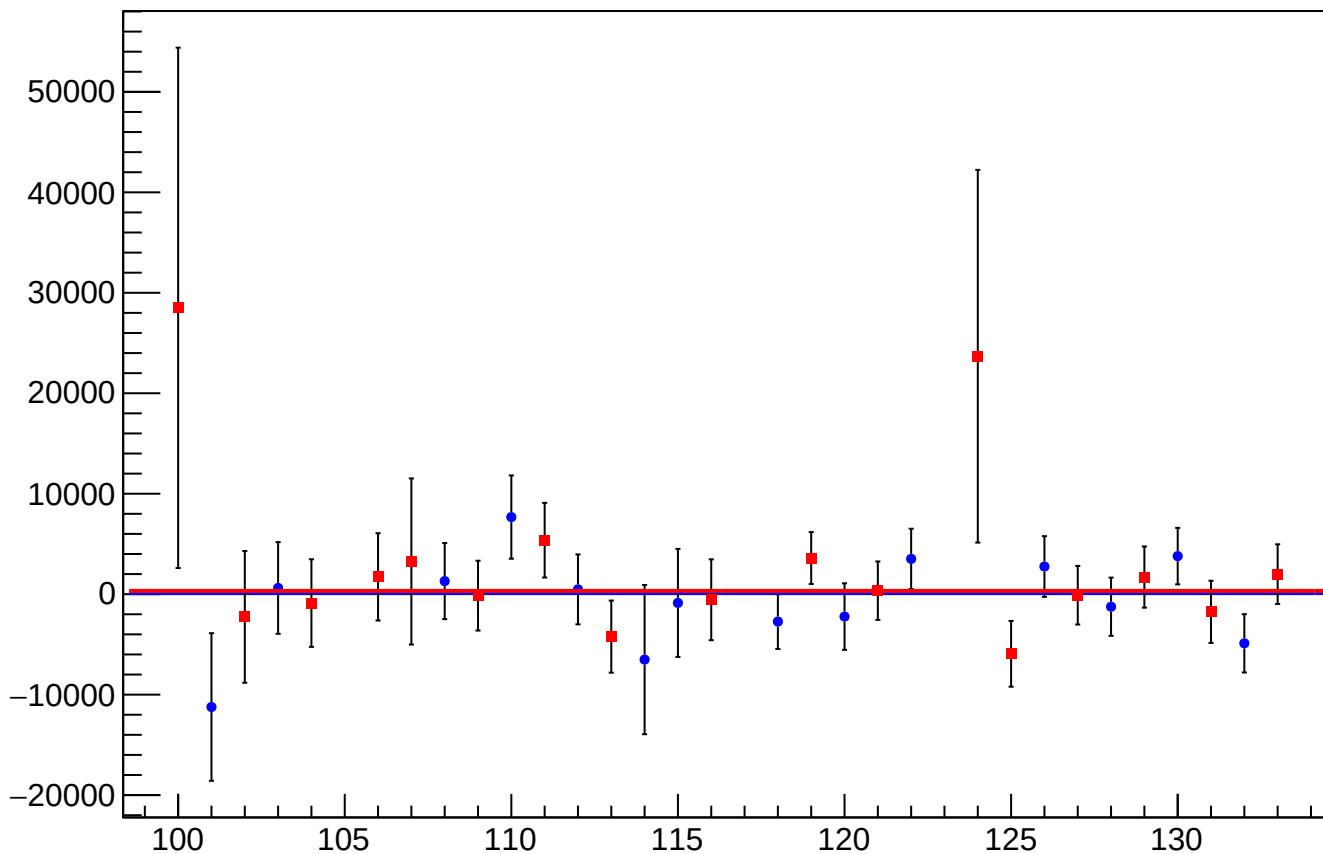
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 727.393+/-0.160  $\chi^2/\text{NDF}$ : 4621788.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_mean vs Slug



Right In: 106.924+/-936.200  $\chi^2/\text{NDF}$ : 15.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 326.244+/-895.452  $\chi^2/\text{NDF}$ : 13.0/16

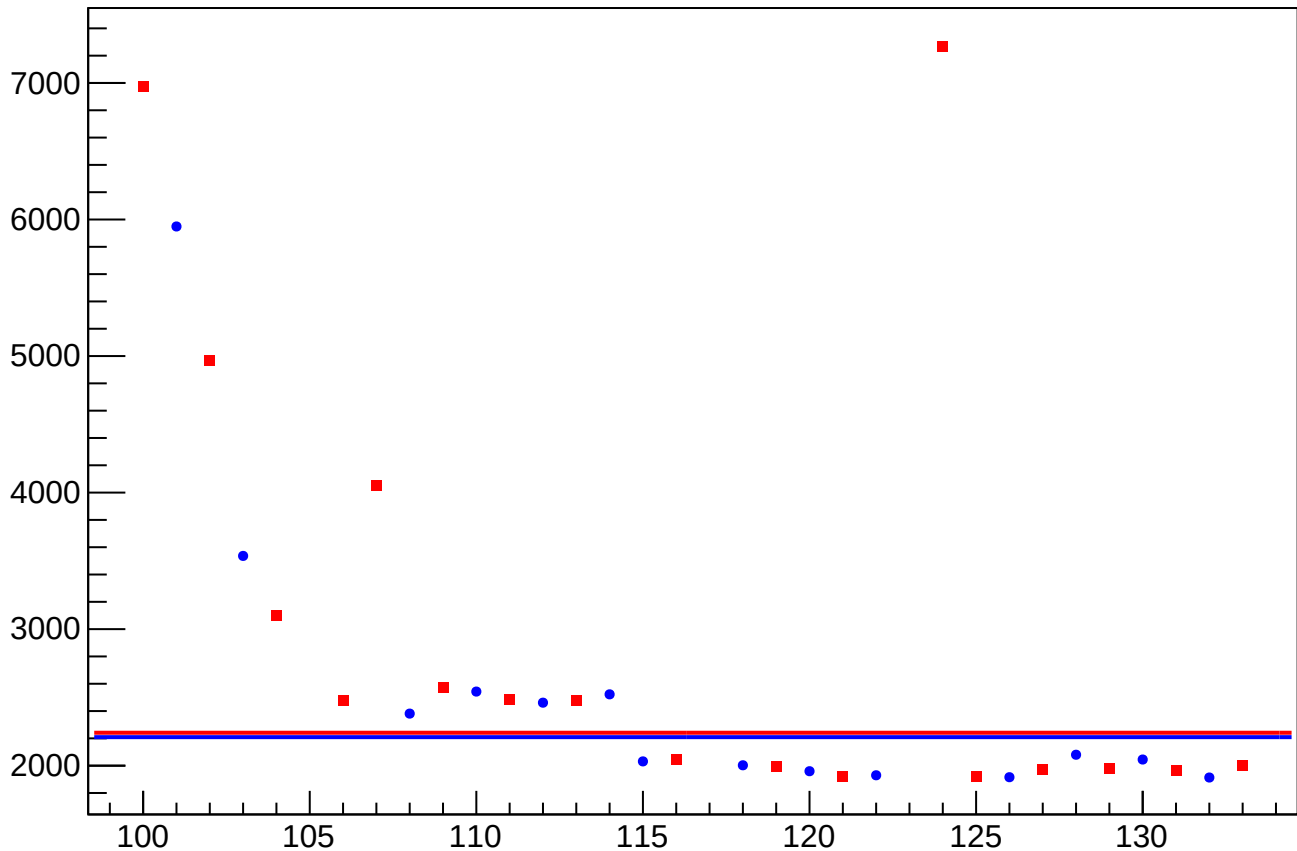
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 221.461+/-647.106  $\chi^2/\text{NDF}$ : 28.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_rms vs Slug



Right In: 2208.966+/-0.662  $\chi^2/\text{NDF}$ : 811575.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2241.241+/-0.633  $\chi^2/\text{NDF}$ : 901173.1/16

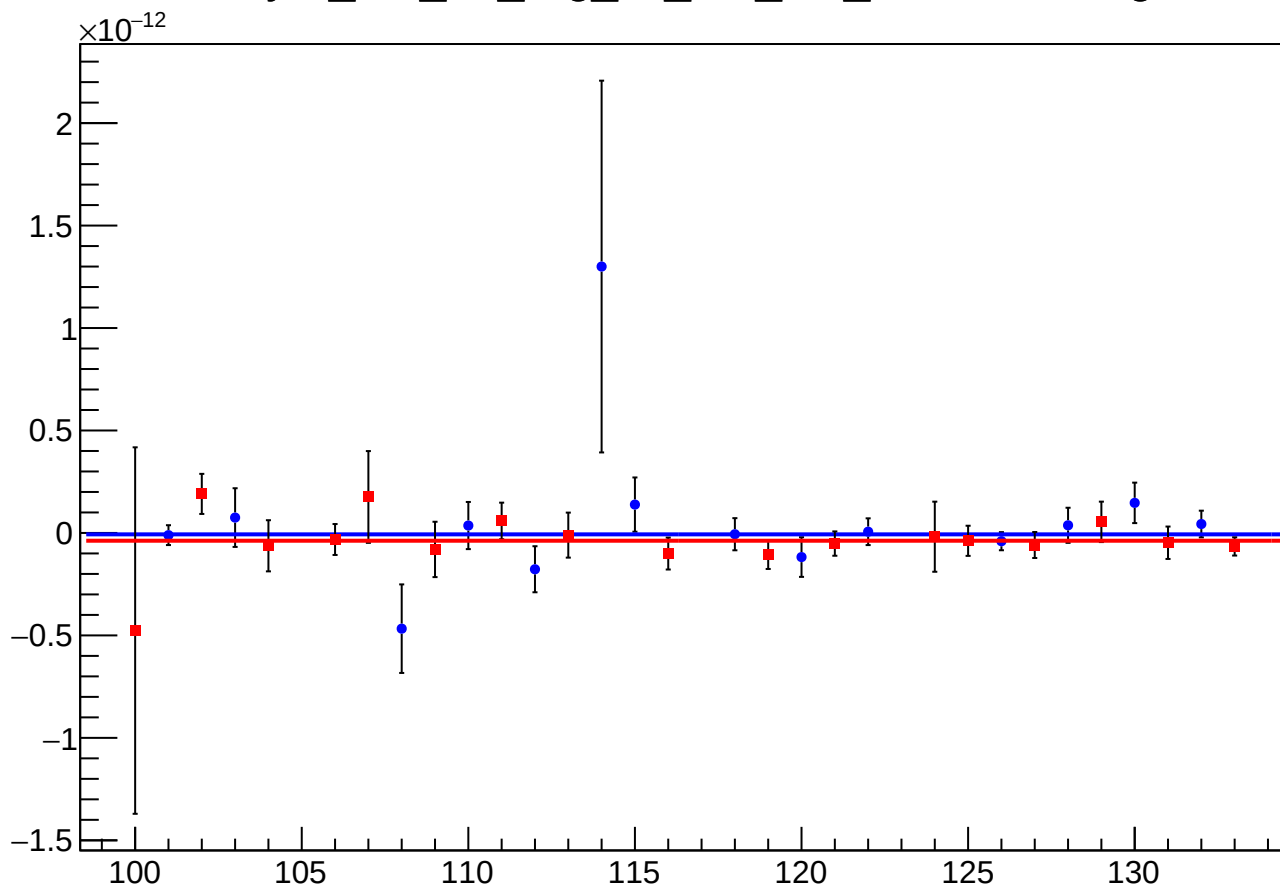
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2225.821+/-0.458  $\chi^2/\text{NDF}$ : 1713989.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 15.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 11.0/16

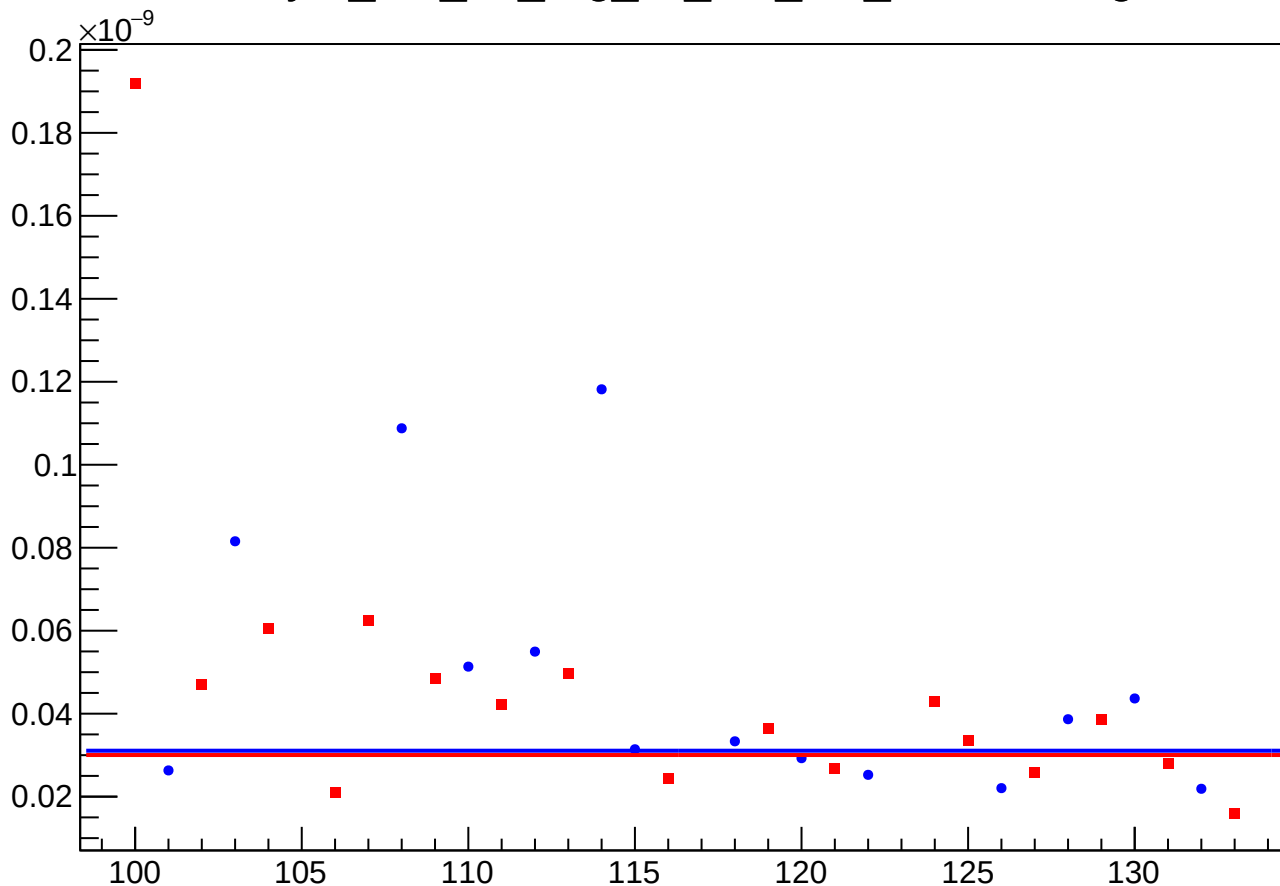
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 28.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 887027.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 730345.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

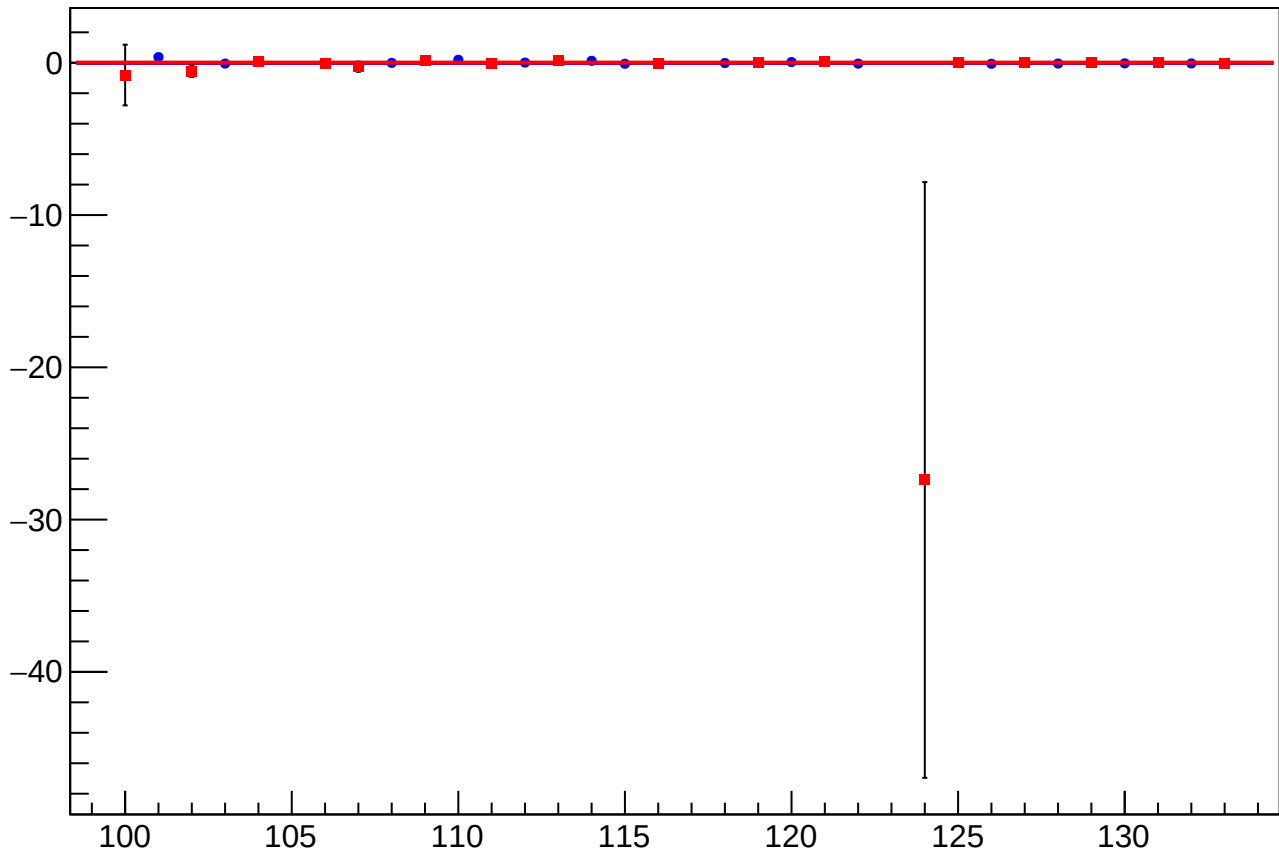
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1619924.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_at1\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.013 $\pm$ 0.017  $\chi^2$ /NDF: 17.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.010 $\pm$ 0.016  $\chi^2$ /NDF: 11.9/16

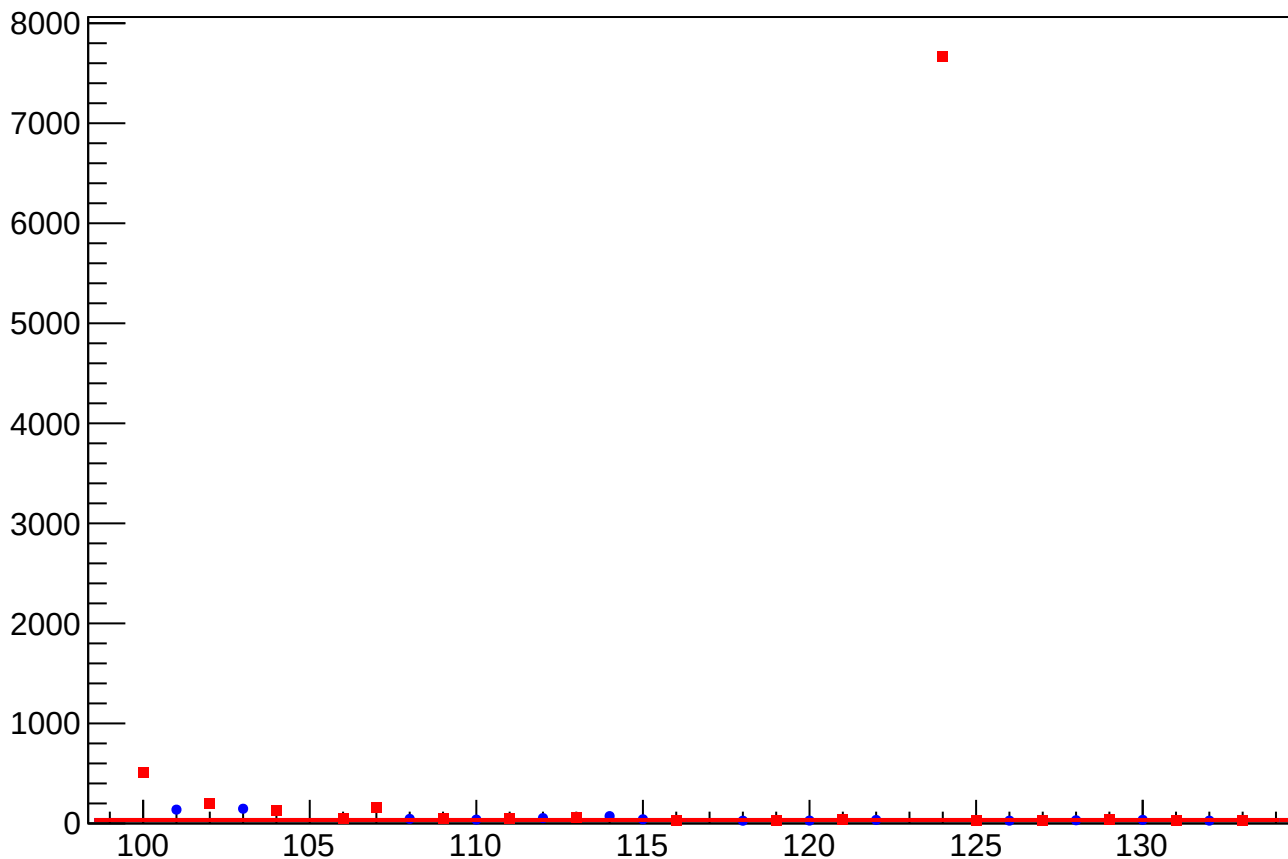
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.001 $\pm$ 0.012  $\chi^2$ /NDF: 30.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 34.708+/-0.012  $\chi^2$ /NDF: 1692287.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 34.786+/-0.012  $\chi^2$ /NDF: 1961163.7/16

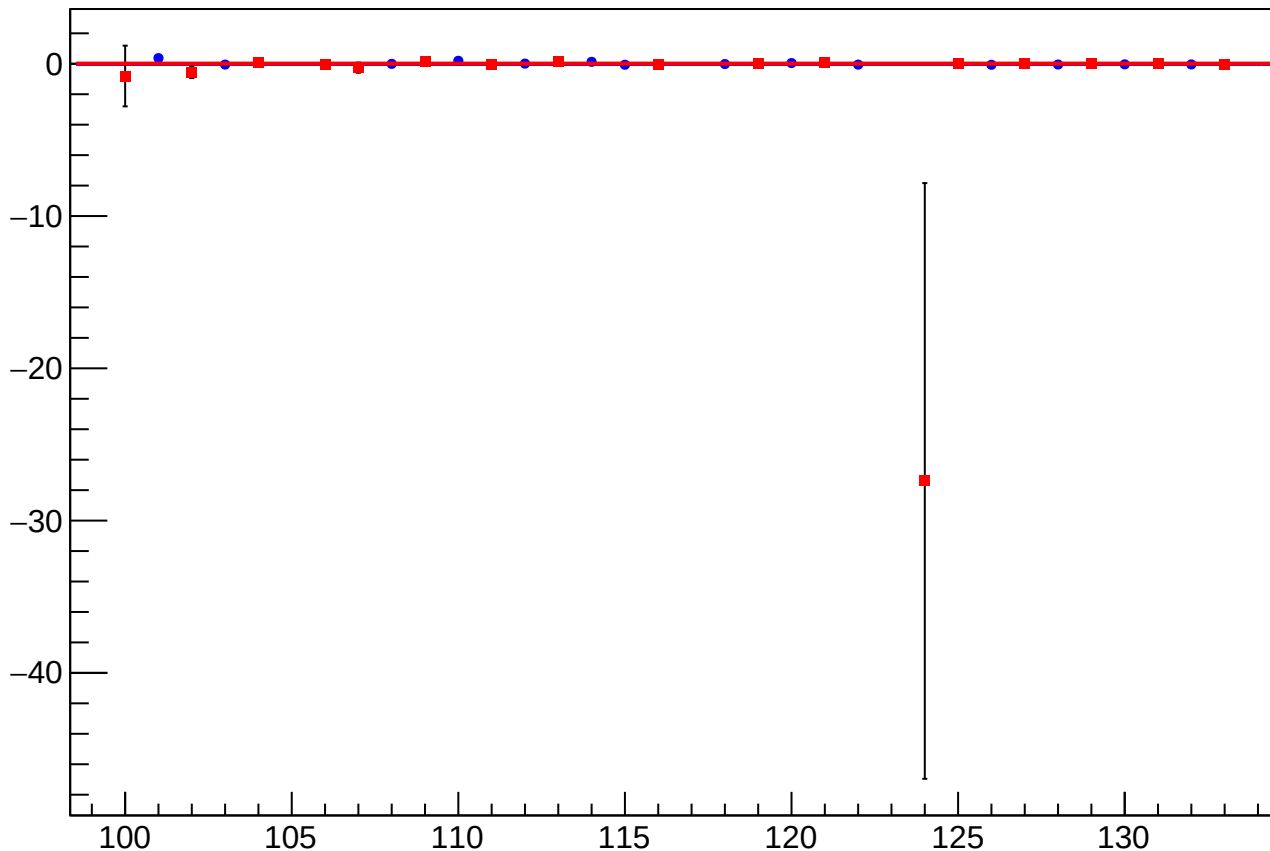
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 34.747+/-0.008  $\chi^2$ /NDF: 3653472.9/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.013+/-0.017  $\chi^2/\text{NDF}$ : 17.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.016  $\chi^2/\text{NDF}$ : 11.9/16

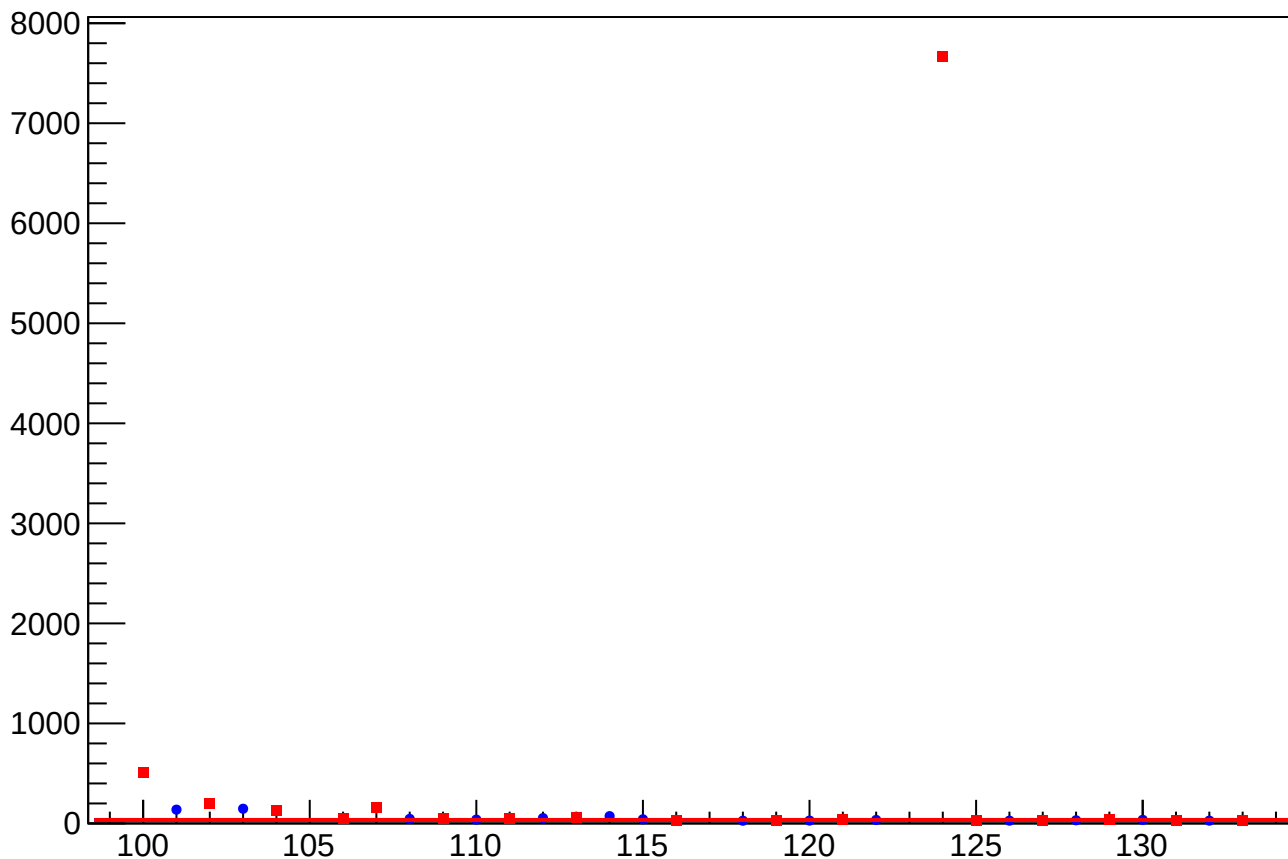
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.001+/-0.012  $\chi^2/\text{NDF}$ : 30.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 34.708+/-0.012  $\chi^2/\text{NDF}$ : 1692287.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 34.786+/-0.012  $\chi^2/\text{NDF}$ : 1961163.7/16

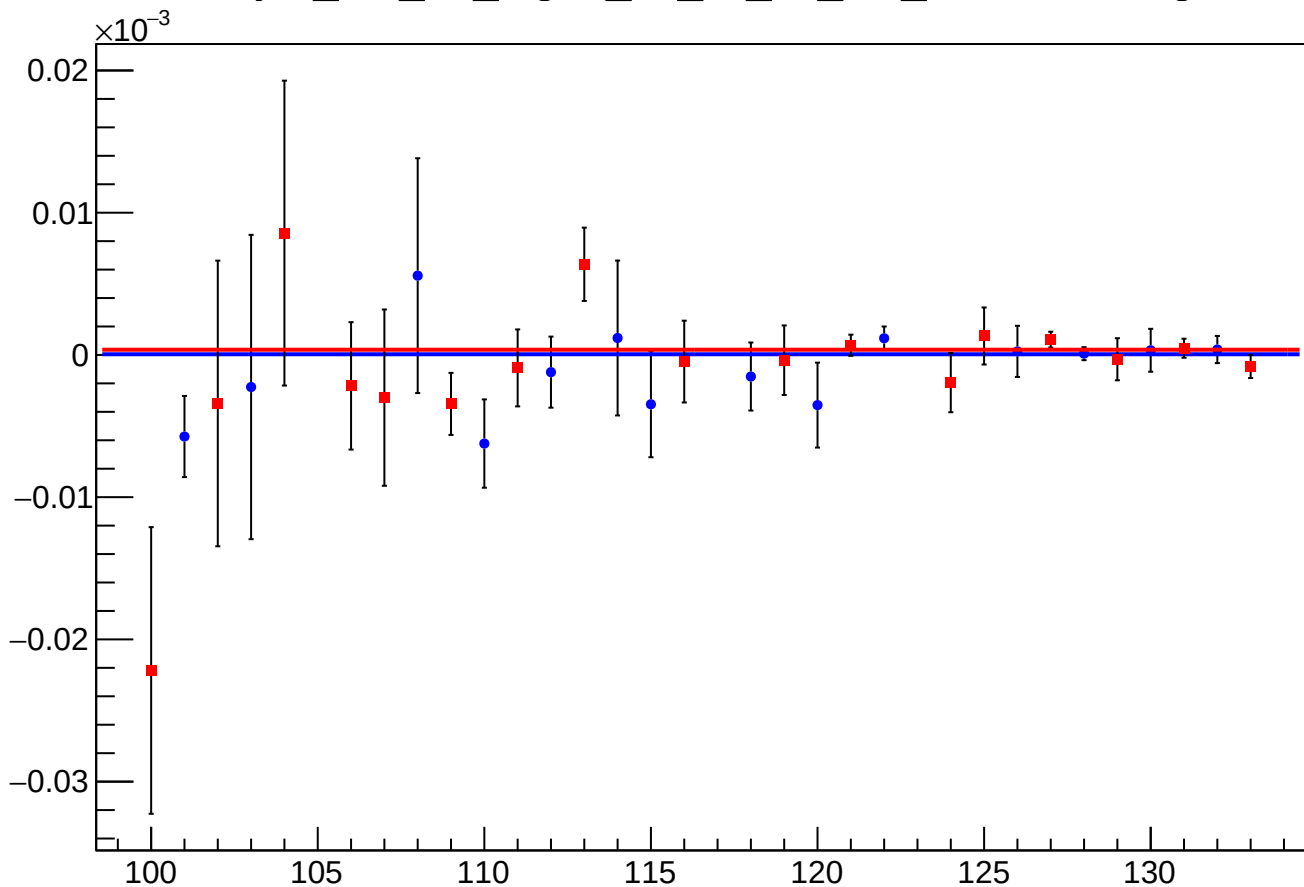
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.747+/-0.008  $\chi^2/\text{NDF}$ : 3653472.9/30

- 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: 13.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 20.8/16

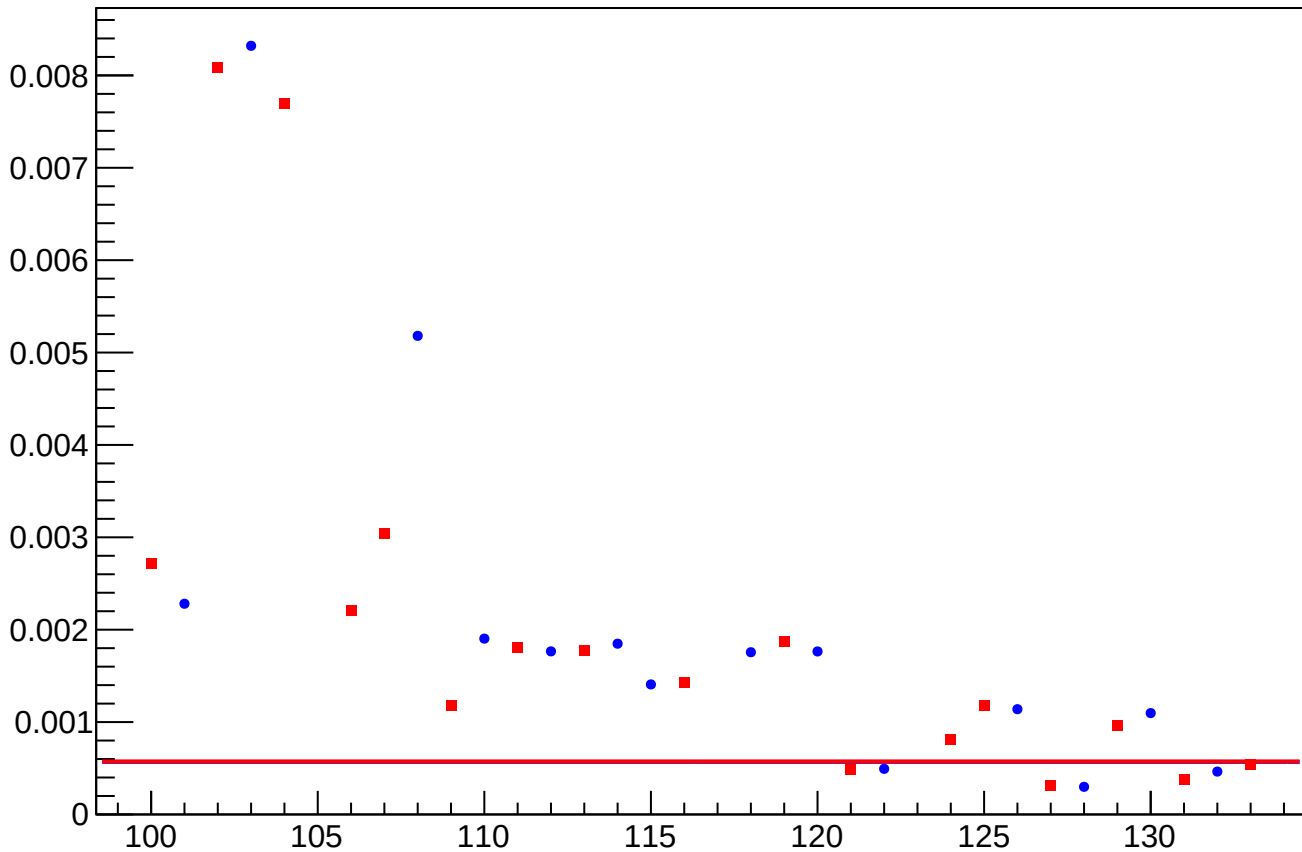
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 35.1/30

- 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: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5435569.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5416182.0/16

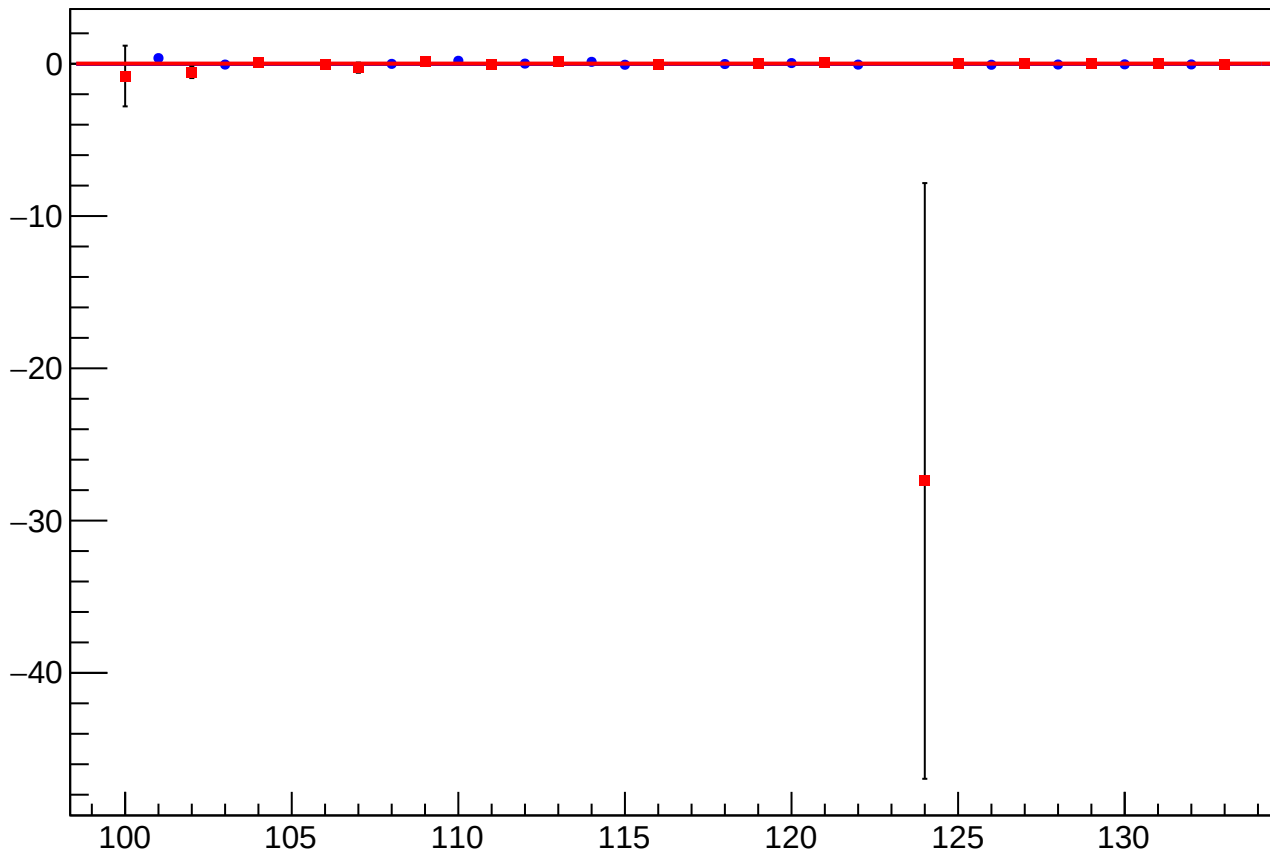
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 10851858.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.013+/-0.017  $\chi^2$ /NDF: 17.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.010+/-0.016  $\chi^2$ /NDF: 11.9/16

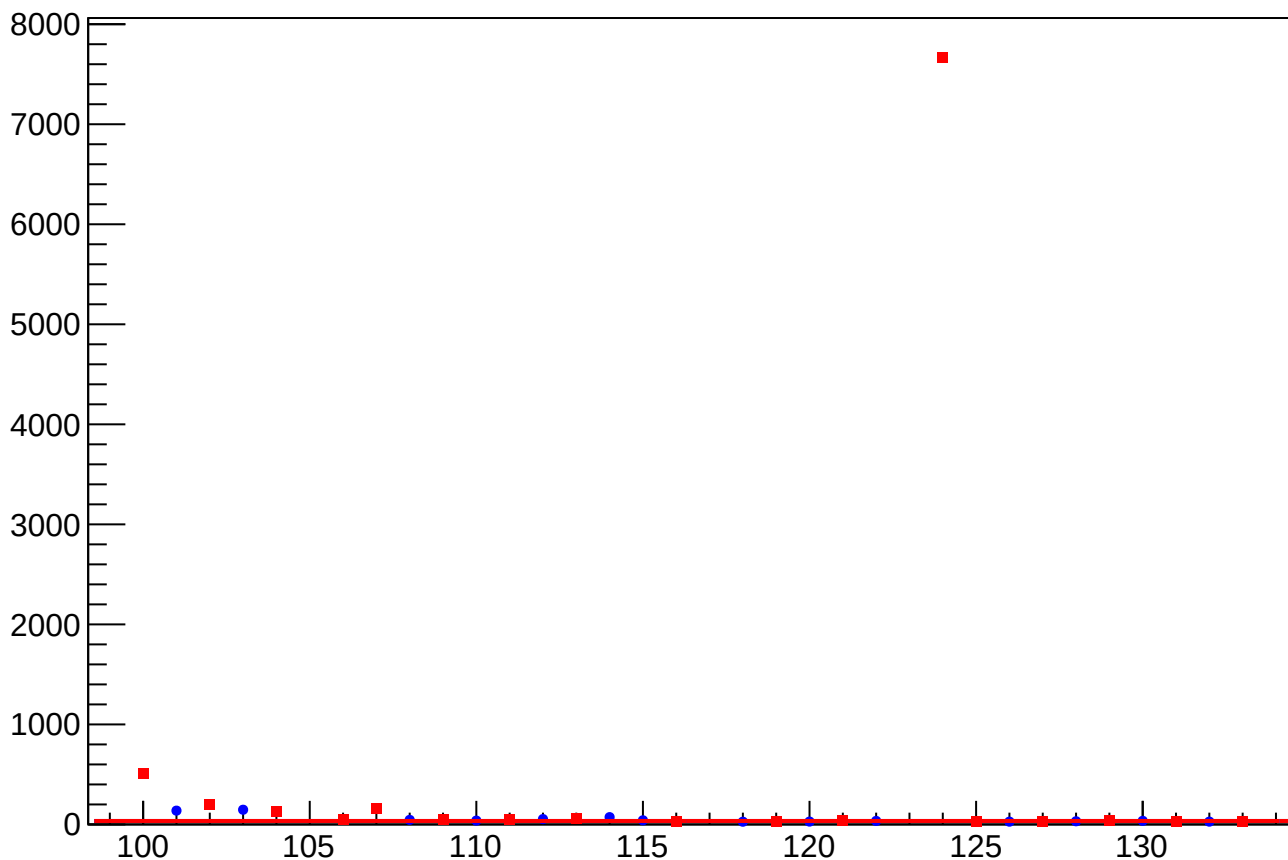
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.001+/-0.012  $\chi^2$ /NDF: 30.7/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 34.708+/-0.012  $\chi^2/\text{NDF}$ : 1692277.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 34.785+/-0.012  $\chi^2/\text{NDF}$ : 1961152.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

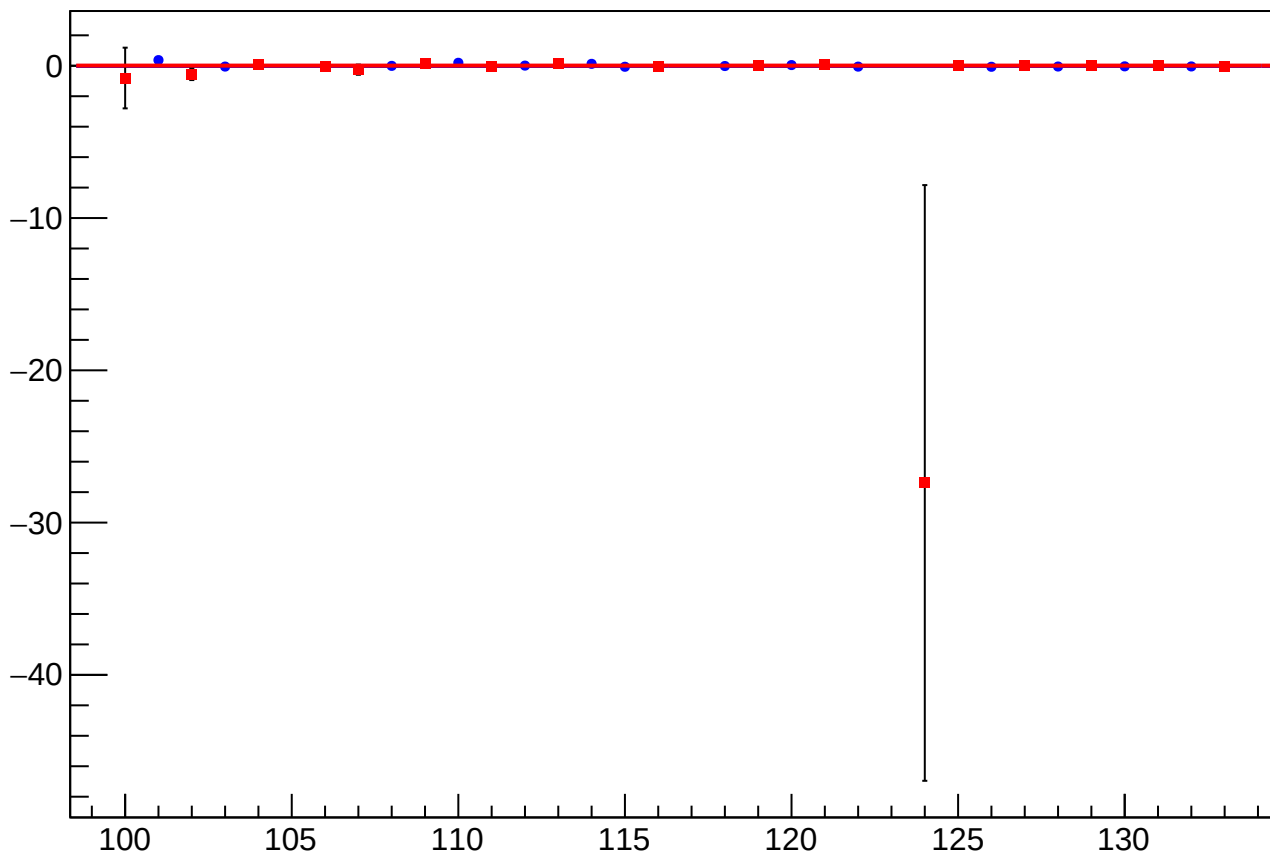
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.747+/-0.008  $\chi^2/\text{NDF}$ : 3653451.0/30

- 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:  $-0.013 \pm 0.017$   $\chi^2/\text{NDF}$ : 17.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.010 \pm 0.016$   $\chi^2/\text{NDF}$ : 11.9/16

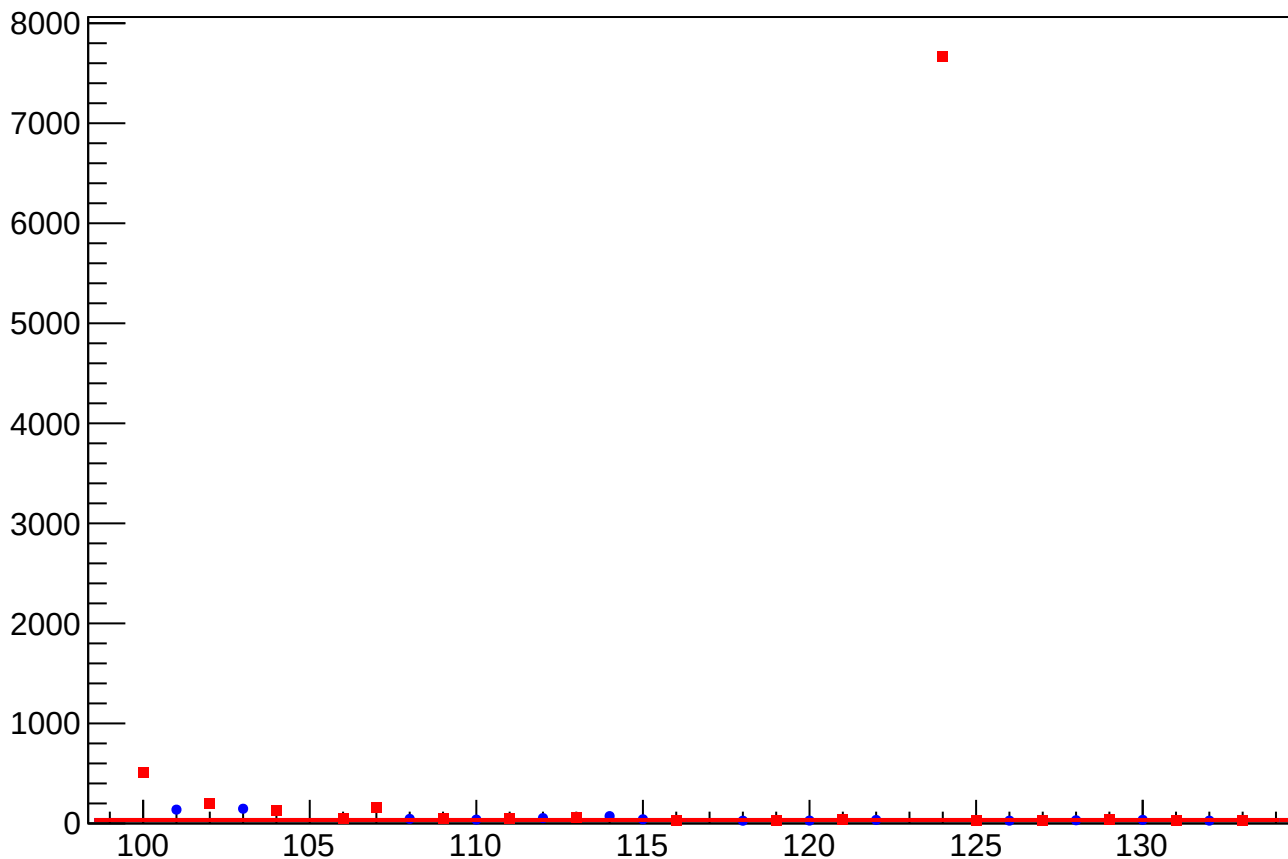
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.001 \pm 0.012$   $\chi^2/\text{NDF}$ : 30.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 34.708+/-0.012  $\chi^2/\text{NDF}$ : 1692277.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 34.785+/-0.012  $\chi^2/\text{NDF}$ : 1961152.2/16

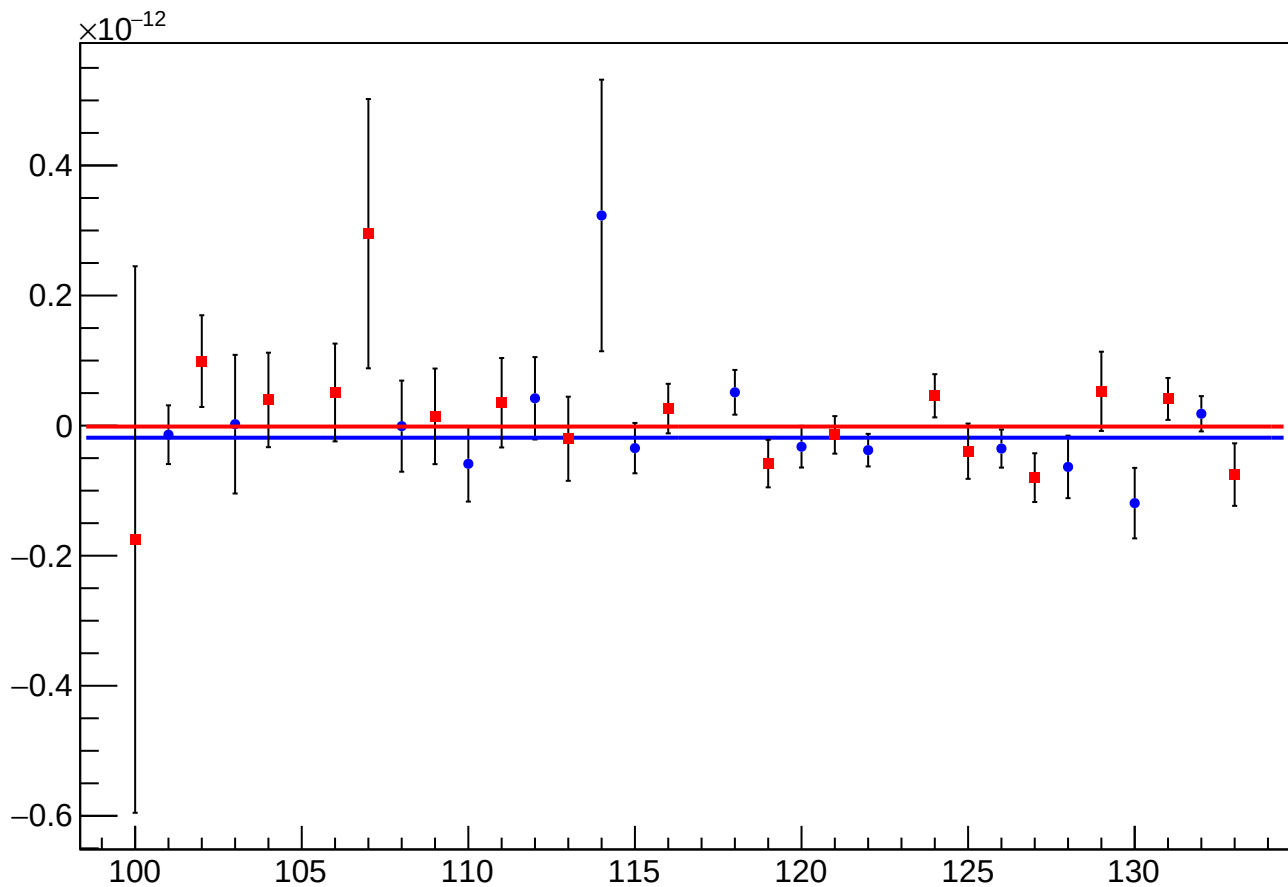
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.747+/-0.008  $\chi^2/\text{NDF}$ : 3653451.0/30

- 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:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 15.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 20.7/16

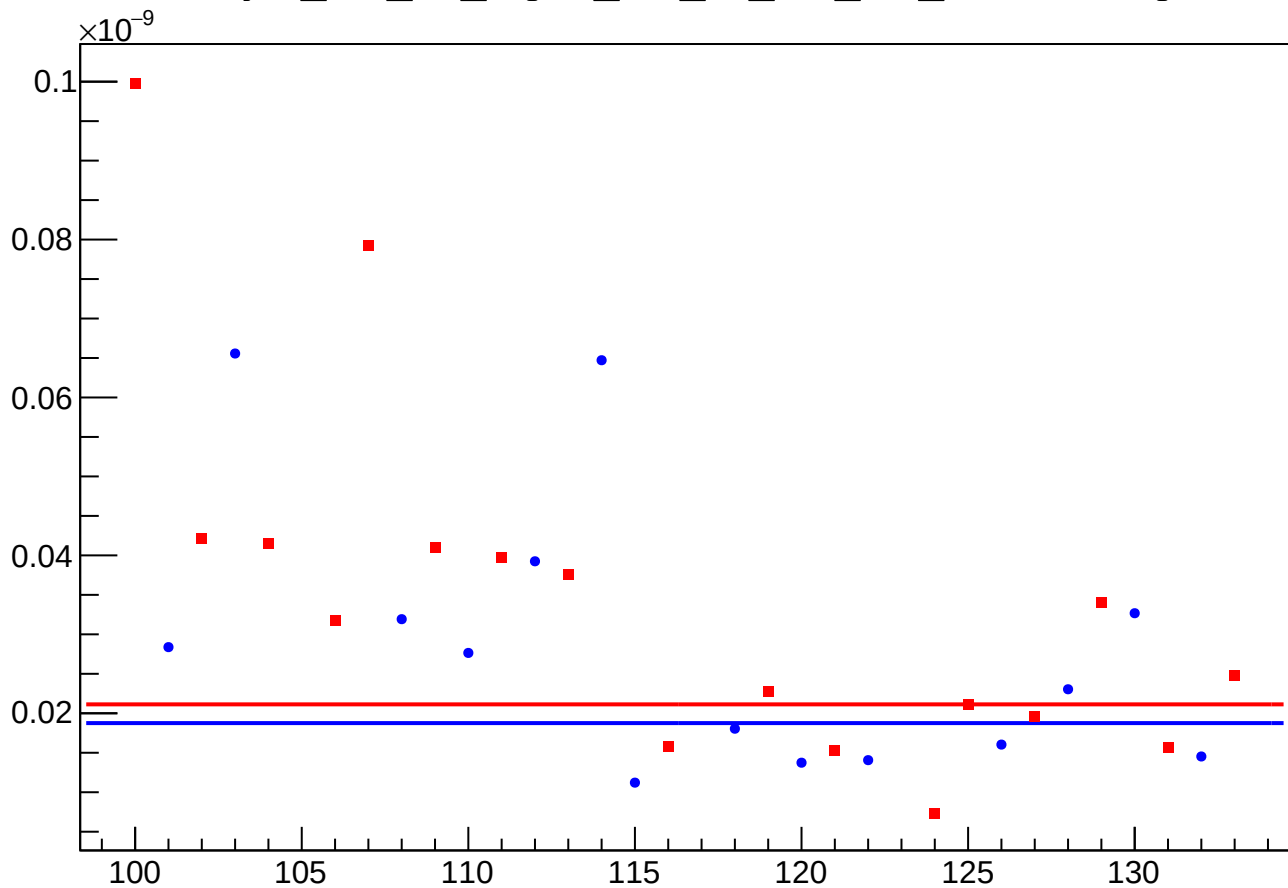
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 37.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1310022.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1658285.9/16

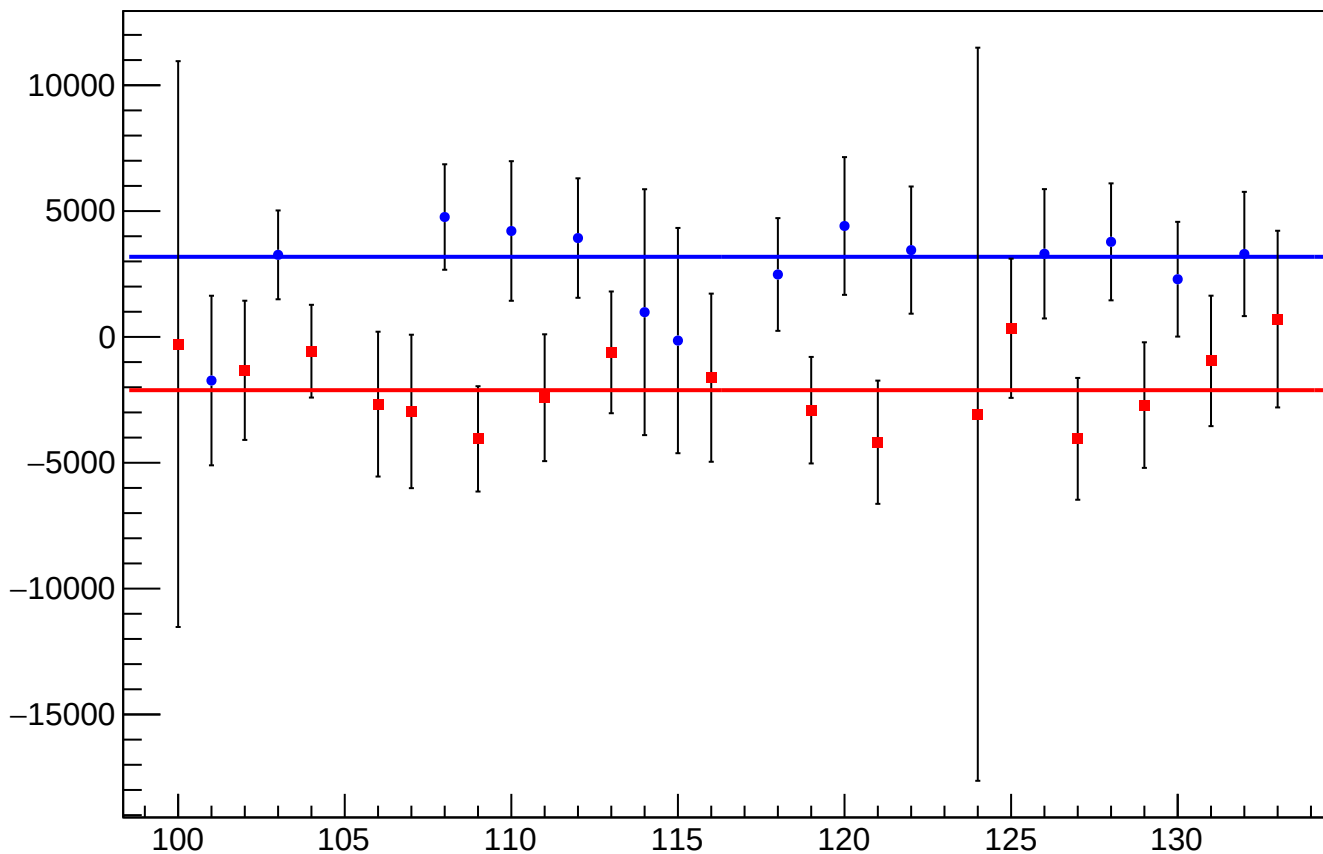
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3014419.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_avg\_mean vs Slug



Right In: 3182.989 $\pm$ 671.314  $\chi^2$ /NDF: 4.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2115.961 $\pm$ 646.153  $\chi^2$ /NDF: 5.4/16

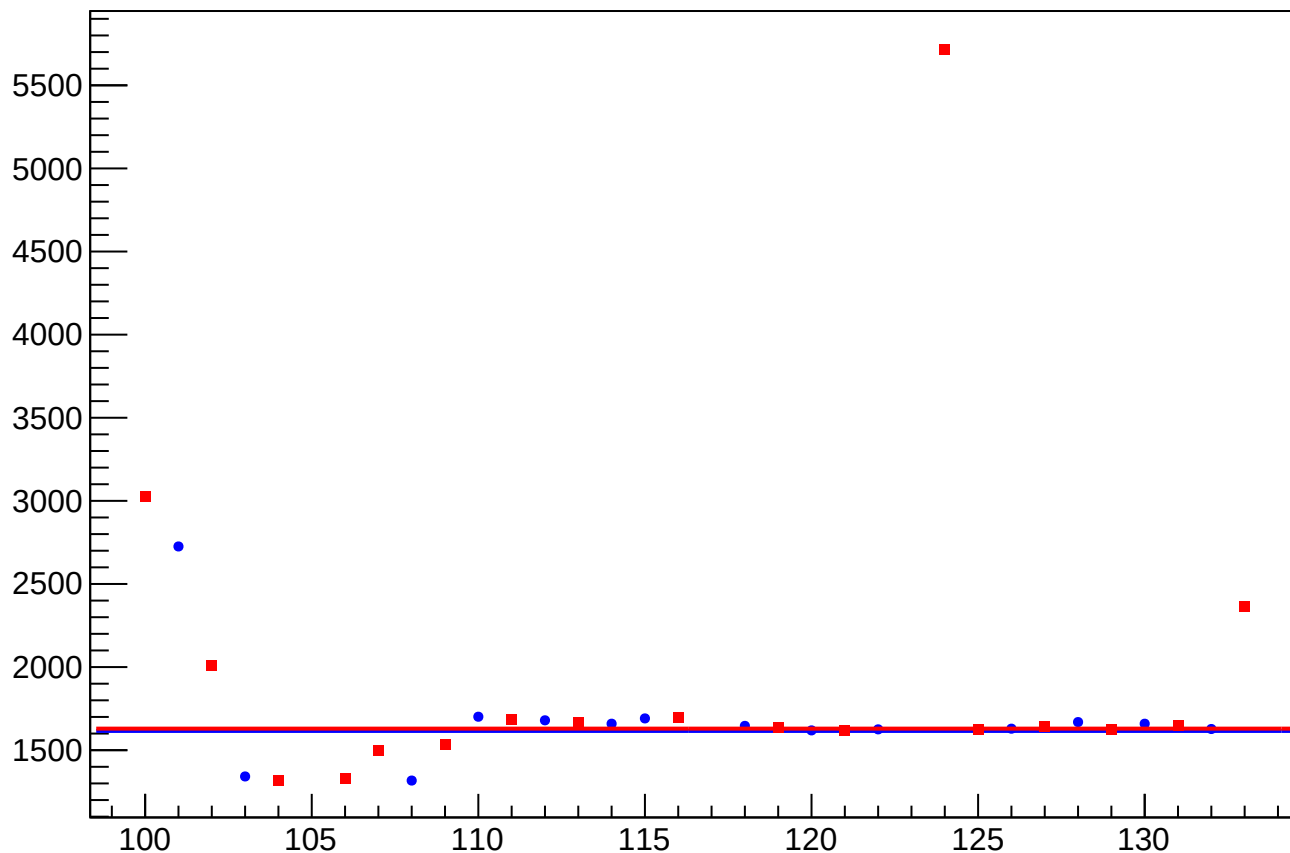
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 432.352 $\pm$ 465.540  $\chi^2$ /NDF: 42.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_avg\_rms vs Slug



Right In: 1615.842+/-0.475  $\chi^2/\text{NDF}$ : 312131.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1629.673+/-0.457  $\chi^2/\text{NDF}$ : 401885.9/16

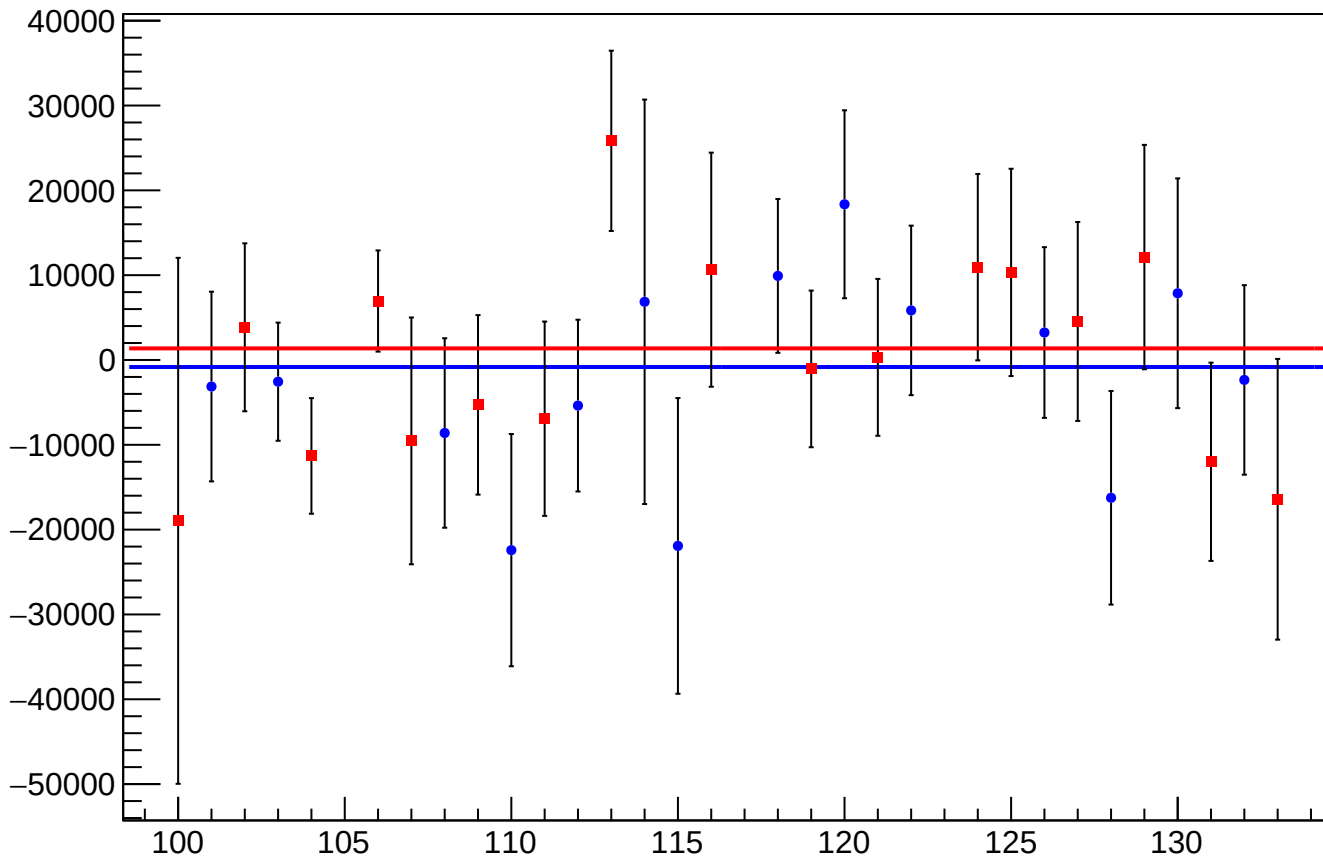
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1623.022+/-0.329  $\chi^2/\text{NDF}$ : 714458.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_reg\_correction\_mean vs Slug



Right In:  $-829.477 \pm 2926.677$   $\chi^2/\text{NDF}$ : 11.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1365.646 \pm 2510.949$   $\chi^2/\text{NDF}$ : 16.6/16

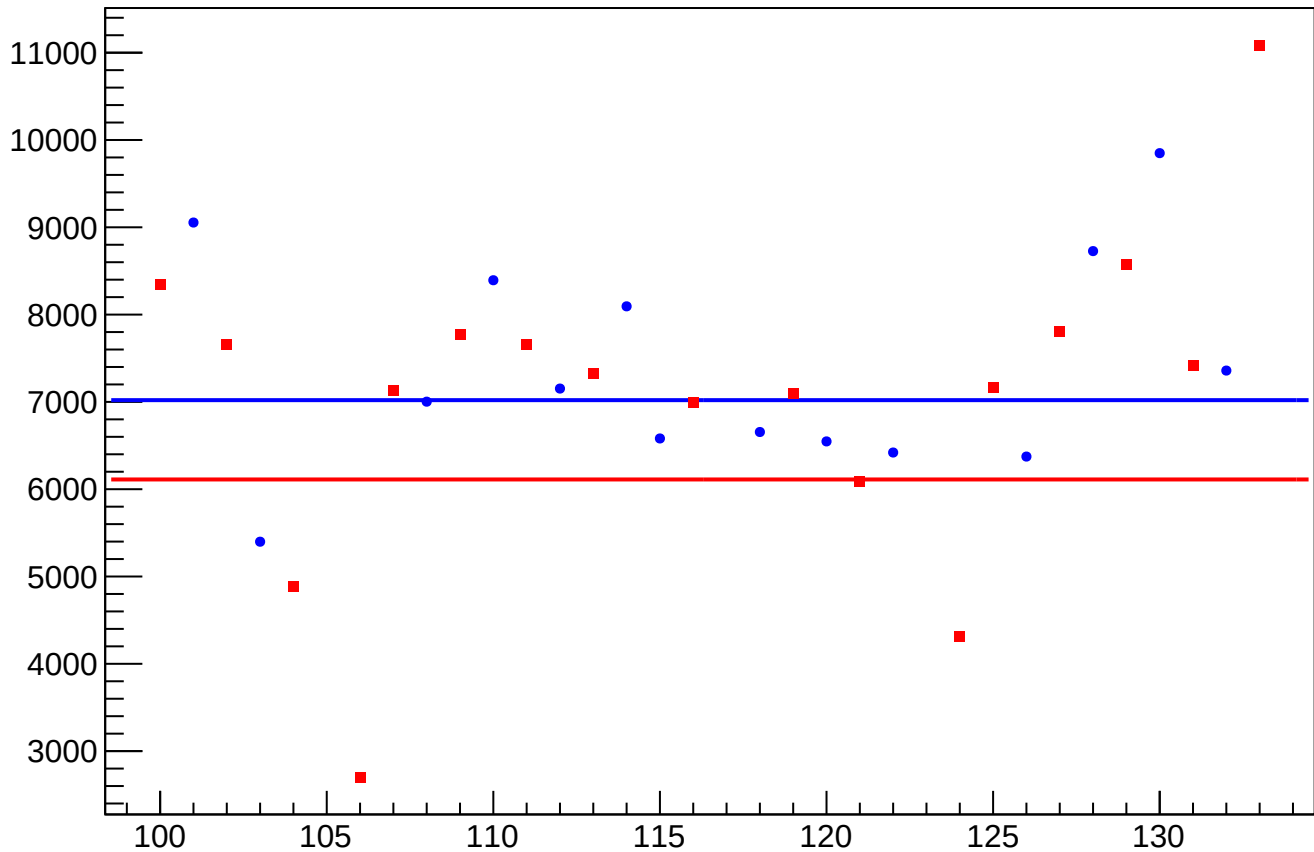
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $434.935 \pm 1905.692$   $\chi^2/\text{NDF}$ : 28.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_reg\_correction\_rms vs Slug



Right In: 7020.071+/-2.069  $\chi^2/\text{NDF}$ : 348714.7/13

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: 6111.584+/-1.776  $\chi^2/\text{NDF}$ : 1315792.6/16

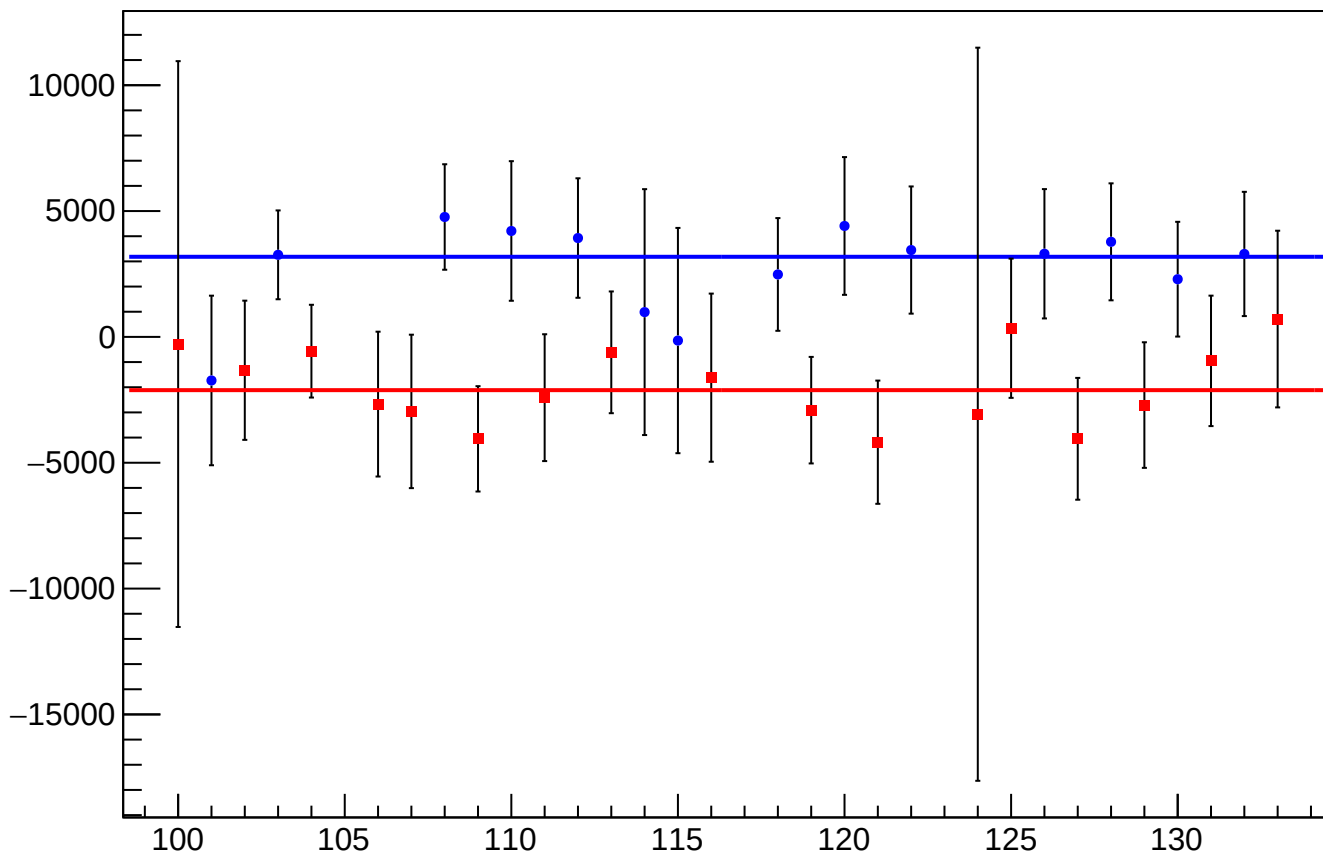
All: 6496.774+/-1.348  $\chi^2/\text{NDF}$ : 1775513.5/30

- 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\_at2\_avg\_mean vs Slug



Right In: 3183.118+/-671.314  $\chi^2/\text{NDF}$ : 4.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2115.729+/-646.153  $\chi^2/\text{NDF}$ : 5.4/16

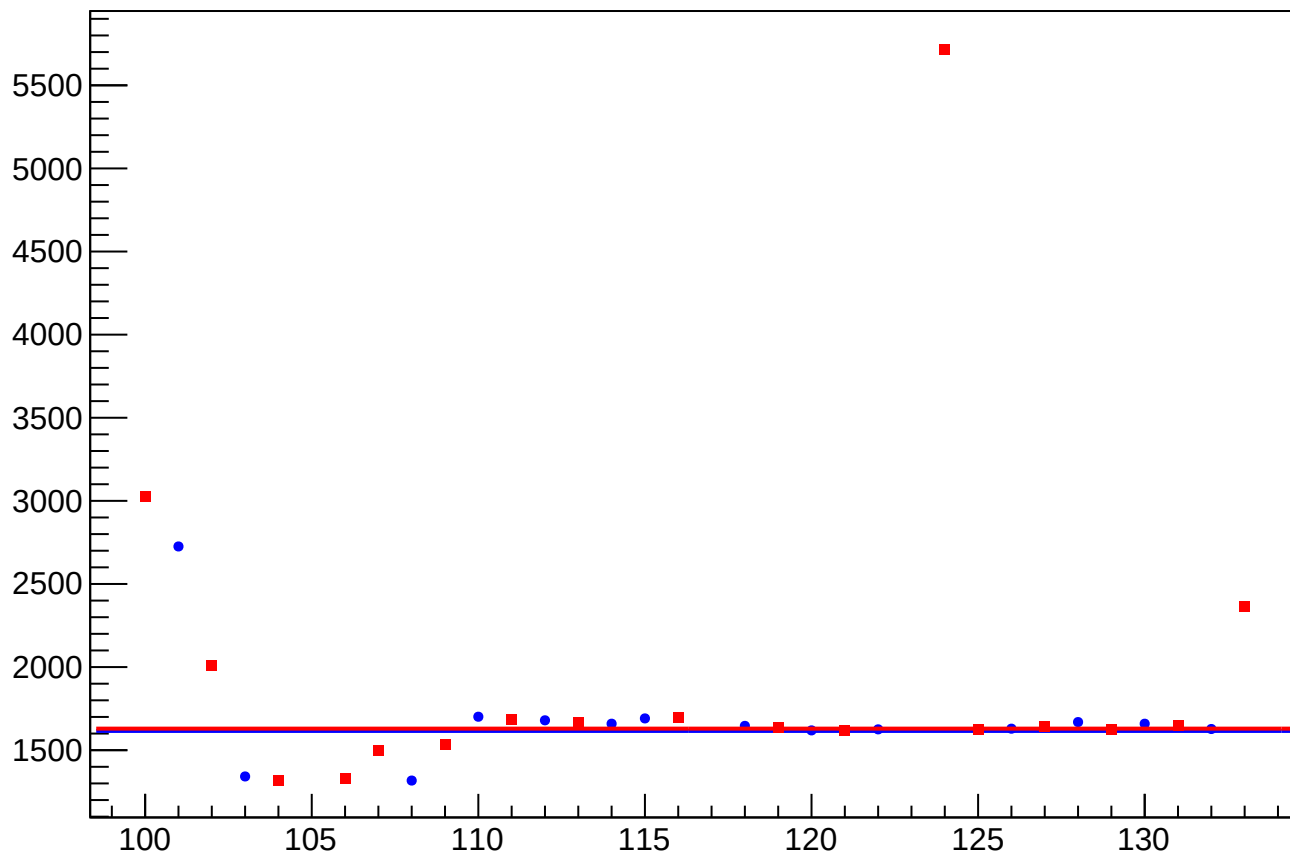
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 432.535+/-465.540  $\chi^2/\text{NDF}$ : 42.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_at2\_avg\_rms vs Slug



Right In: 1615.842 $\pm$ 0.475  $\chi^2$ /NDF: 312131.9/13

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

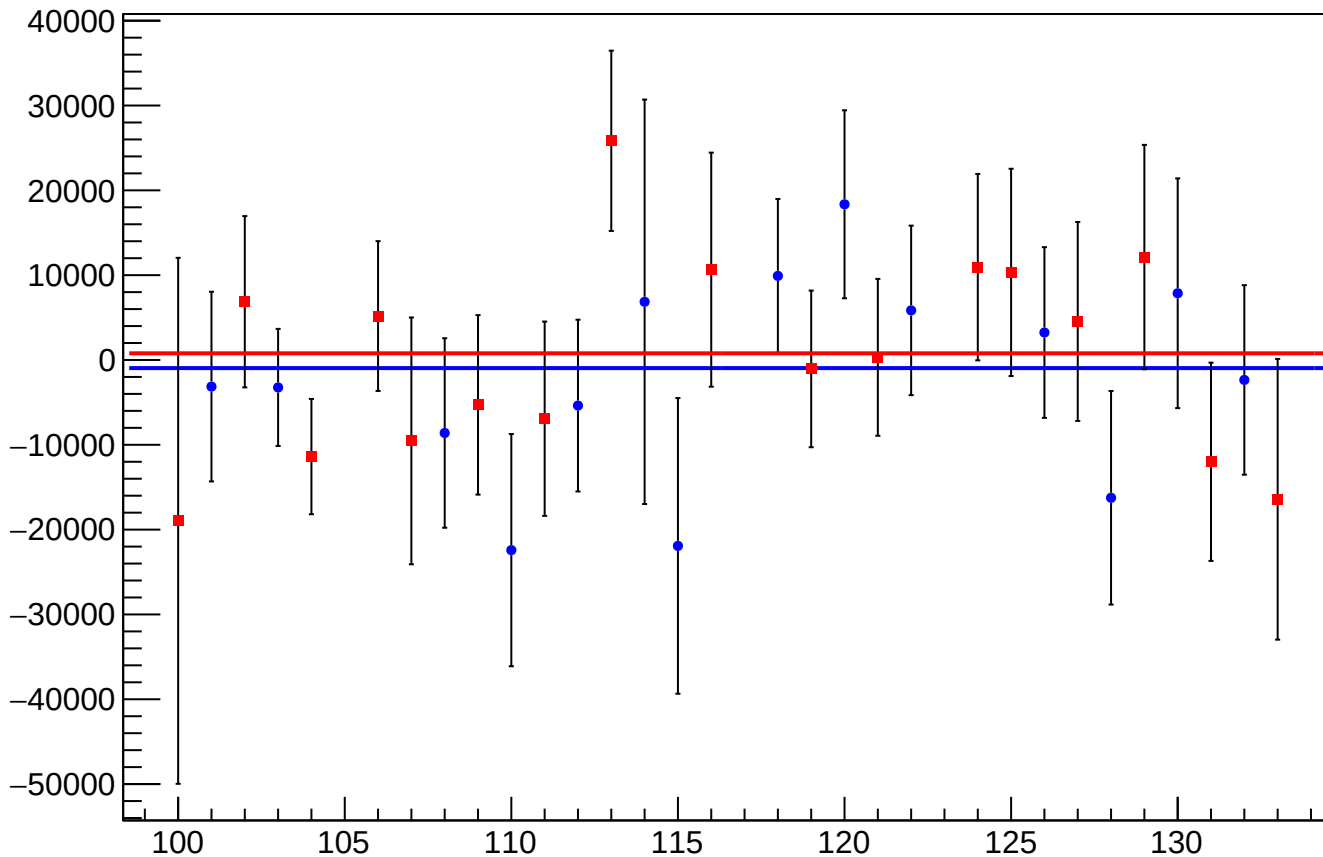
Right Out: 1629.672 $\pm$ 0.457  $\chi^2$ /NDF: 401885.9/16

All: 1623.021 $\pm$ 0.329  $\chi^2$ /NDF: 714458.4/30

- 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\_at2\_avg\_cor\_correction\_mean vs Slug



Right In: -956.421+/-2922.233  $\chi^2/\text{NDF}$ : 11.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 787.518+/-2643.879  $\chi^2/\text{NDF}$ : 16.2/16

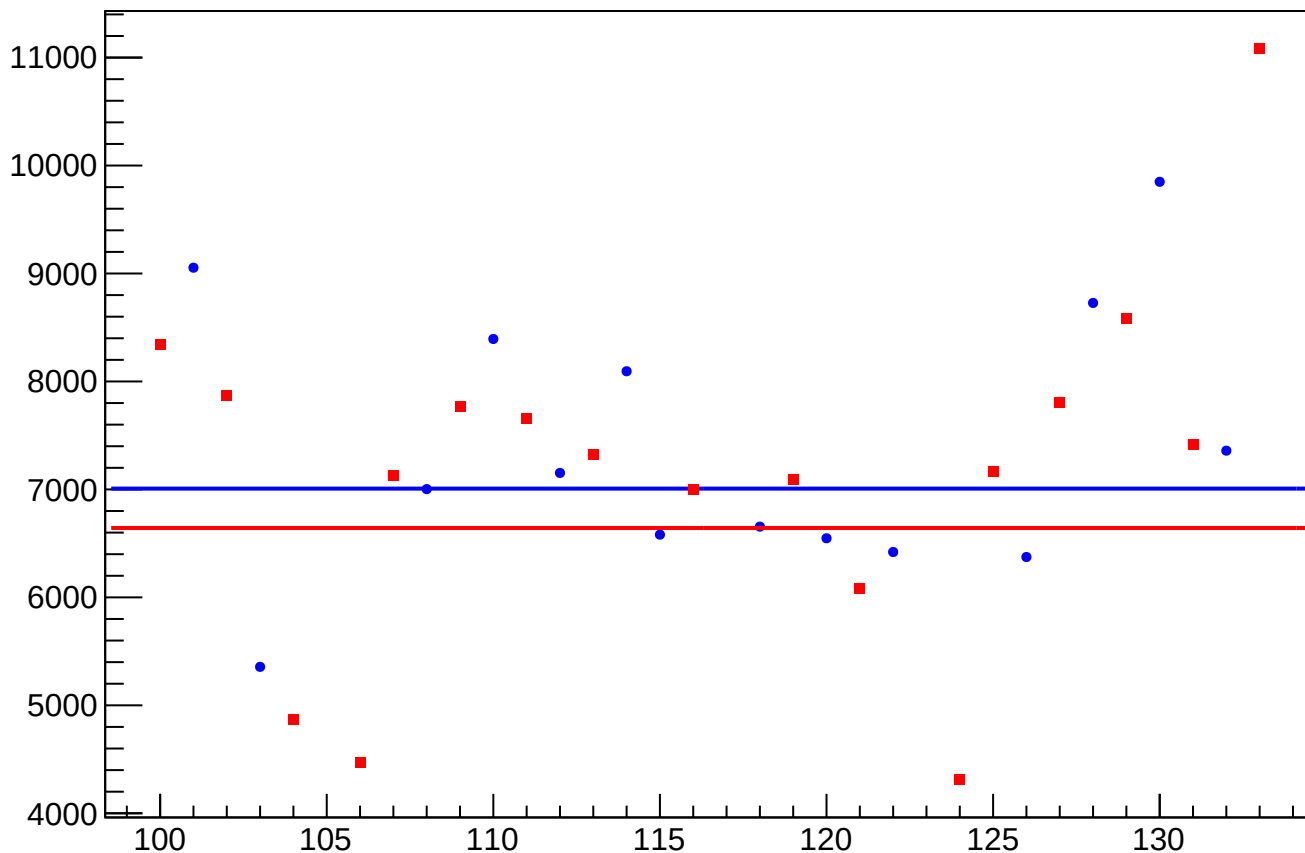
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.543+/-1960.546  $\chi^2/\text{NDF}$ : 28.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_cor\_correction\_rms vs Slug



Right In: 7007.552+/-2.066  $\chi^2/\text{NDF}$ : 356331.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6642.801+/-1.870  $\chi^2/\text{NDF}$ : 663611.0/16

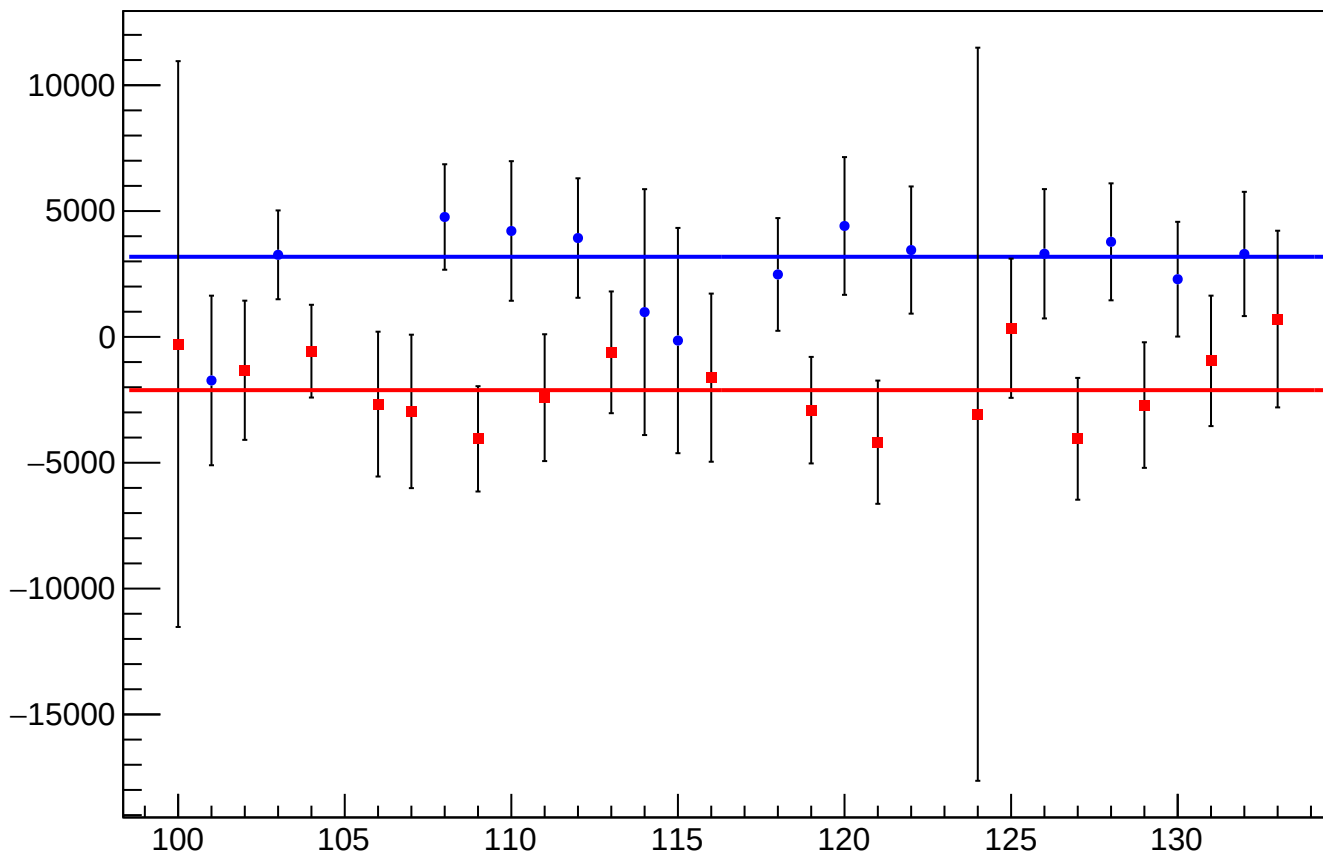
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6806.981+/-1.386  $\chi^2/\text{NDF}$ : 1037076.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_at2\_avg\_mean vs Slug



Right In: 3183.118+/-671.314  $\chi^2/\text{NDF}$ : 4.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2115.729+/-646.153  $\chi^2/\text{NDF}$ : 5.4/16

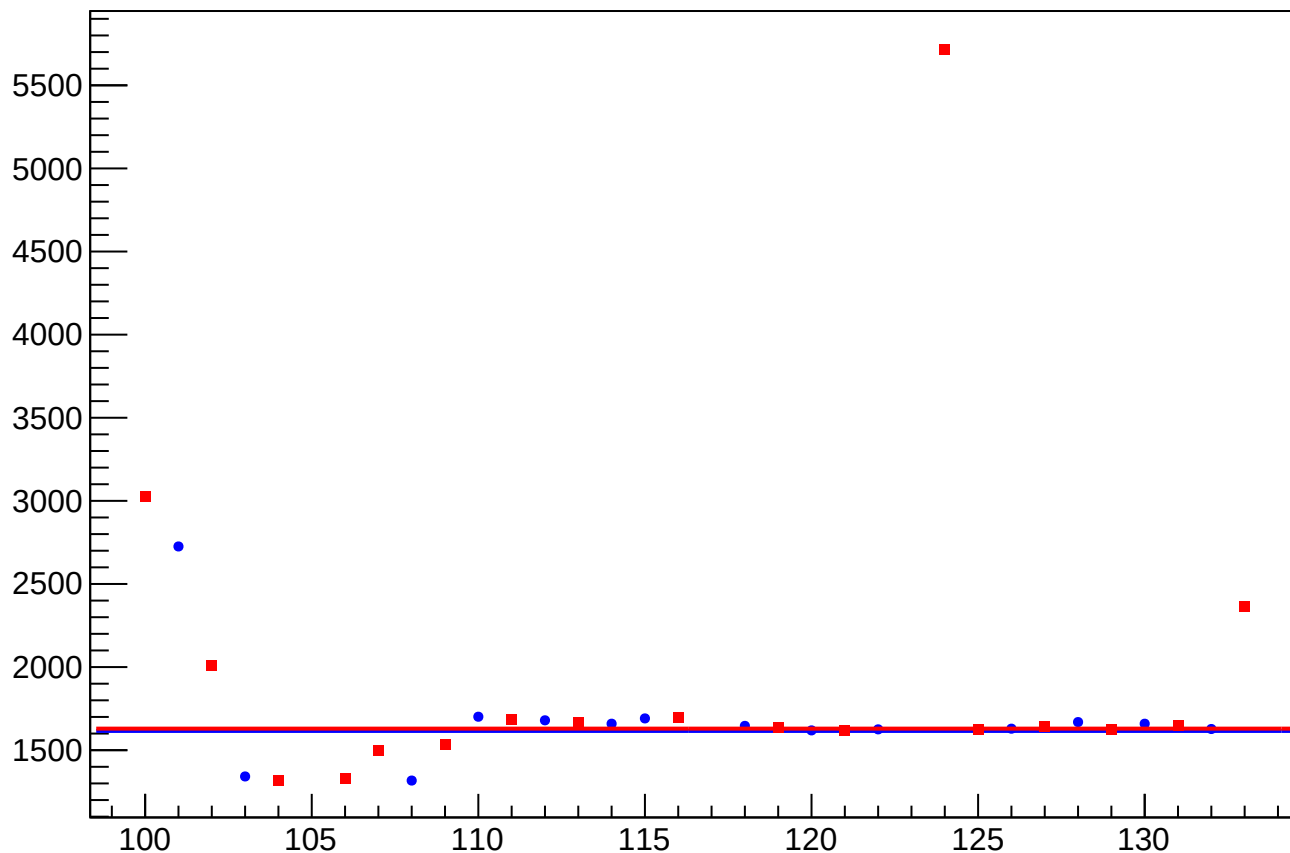
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 432.535+/-465.540  $\chi^2/\text{NDF}$ : 42.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_at2\_avg\_rms vs Slug



Right In: 1615.842 $\pm$ 0.475  $\chi^2$ /NDF: 312131.9/13

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

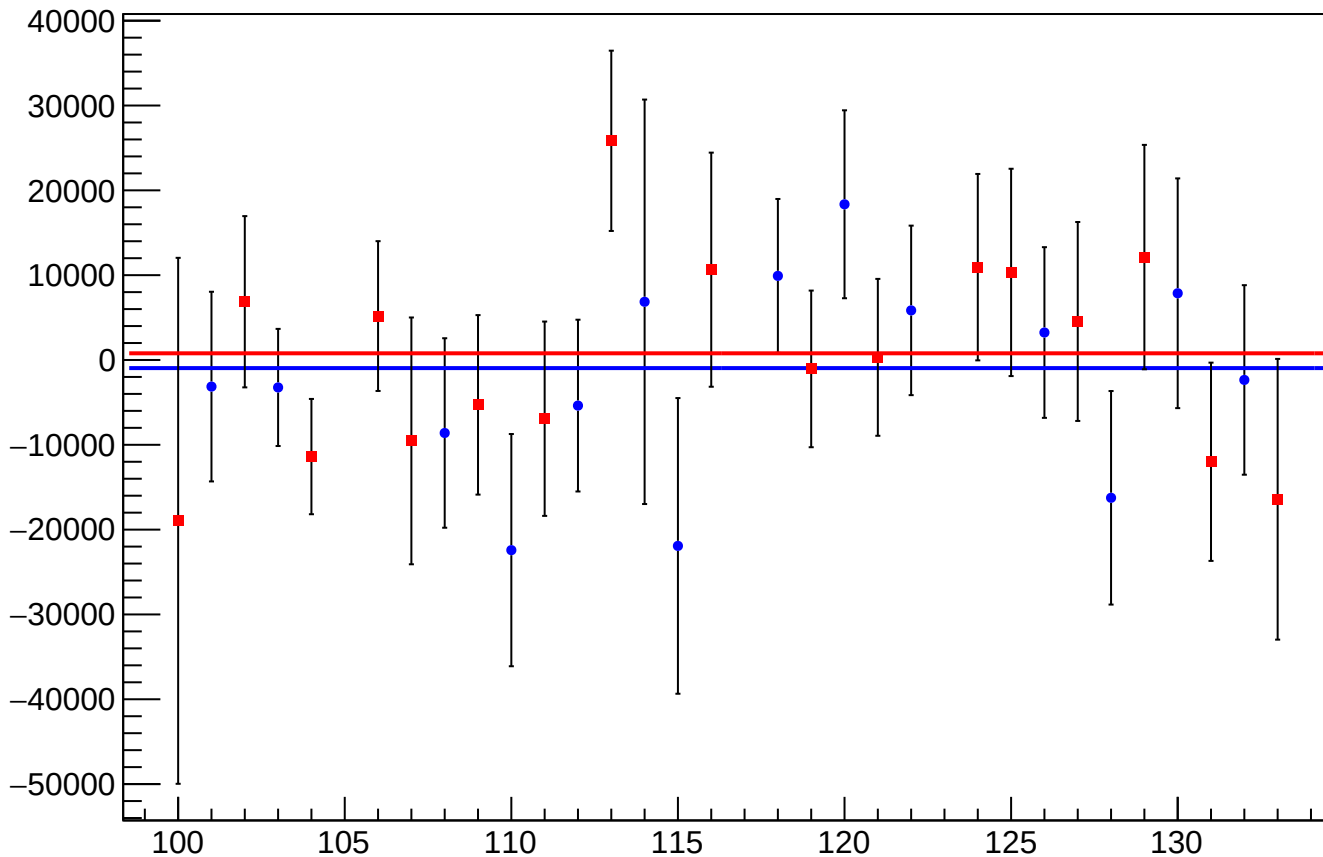
Right Out: 1629.672 $\pm$ 0.457  $\chi^2$ /NDF: 401885.9/16

All: 1623.021 $\pm$ 0.329  $\chi^2$ /NDF: 714458.4/30

- 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\_at2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -956.421+/-2922.233  $\chi^2/\text{NDF}$ : 11.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 787.518+/-2643.879  $\chi^2/\text{NDF}$ : 16.2/16

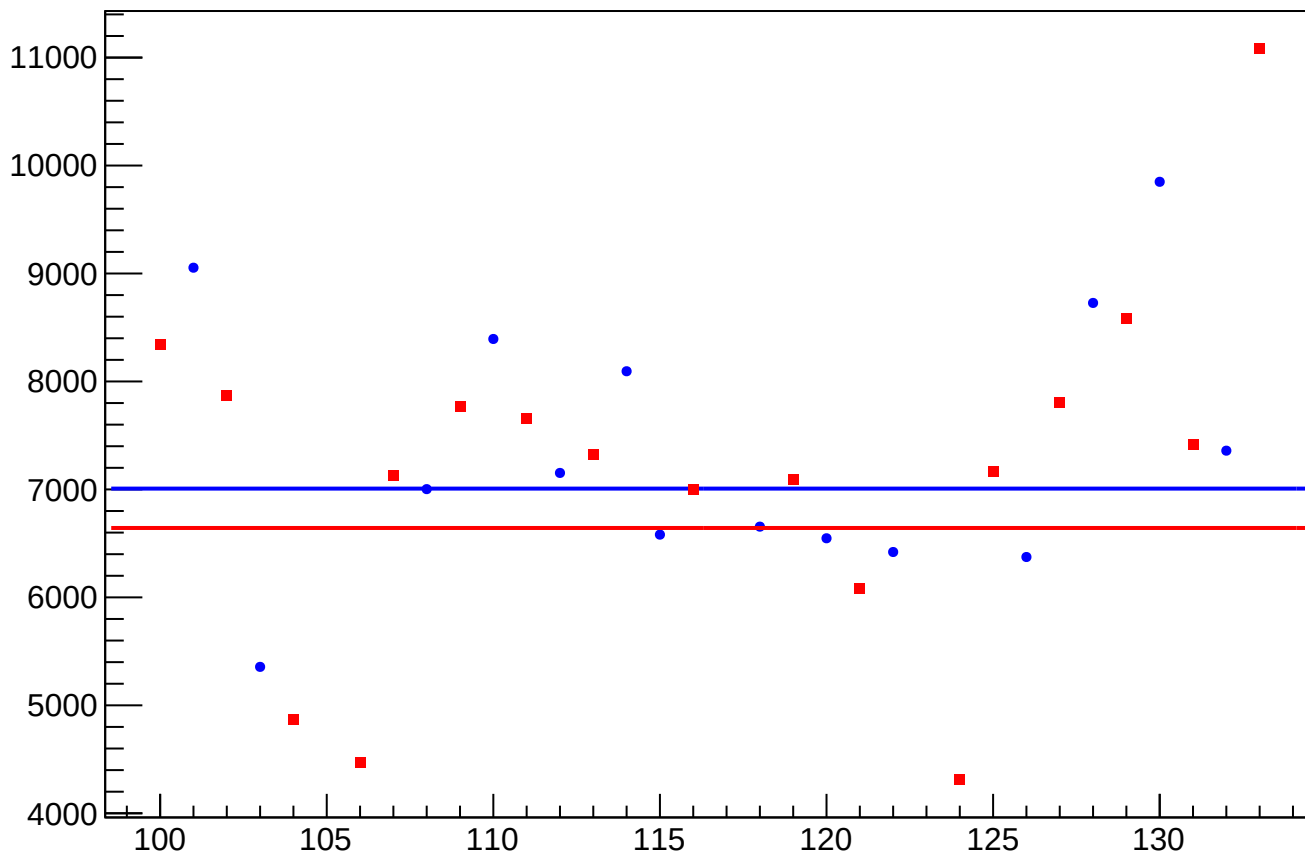
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.543+/-1960.546  $\chi^2/\text{NDF}$ : 28.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 7007.552+/-2.066  $\chi^2/\text{NDF}$ : 356331.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6642.801+/-1.870  $\chi^2/\text{NDF}$ : 663611.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

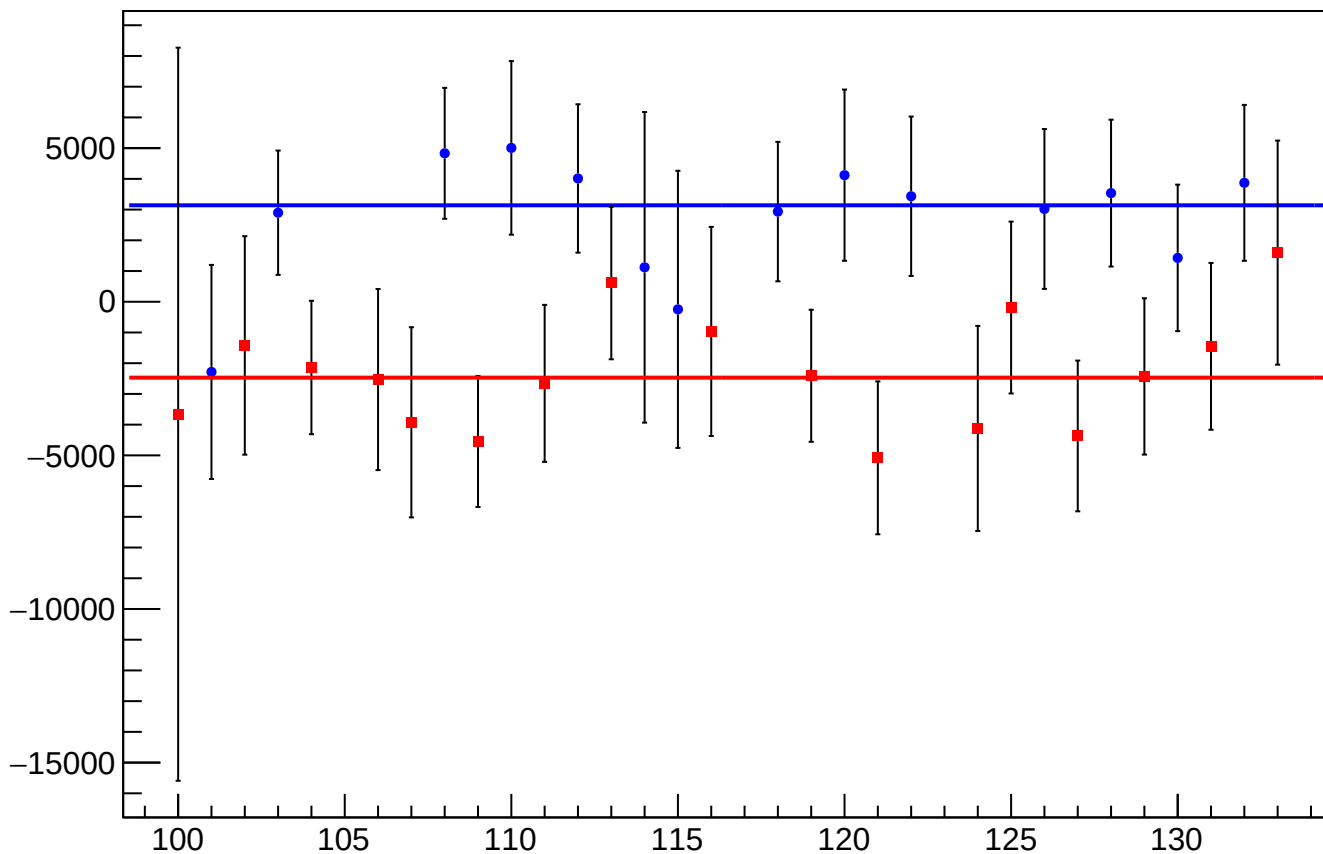
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6806.981+/-1.386  $\chi^2/\text{NDF}$ : 1037076.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_at2\_avg\_mean vs Slug



Right In: 3139.316 $\pm$ 697.140  $\chi^2$ /NDF: 5.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2470.349 $\pm$ 664.229  $\chi^2$ /NDF: 7.0/16

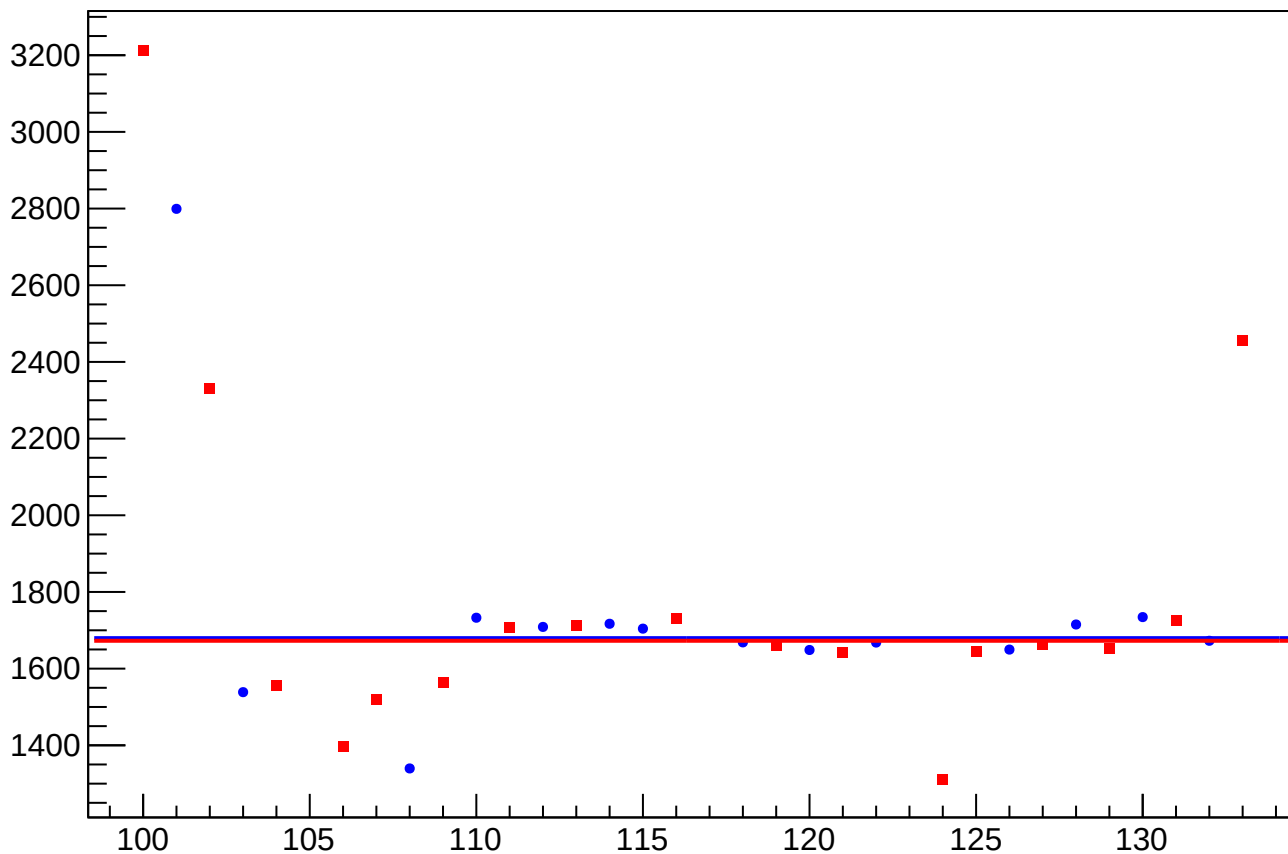
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 198.950 $\pm$ 480.895  $\chi^2$ /NDF: 46.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_at2\_avg\_rms vs Slug



Right In: 1679.519+/-0.493  $\chi^2/\text{NDF}$ : 270499.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1672.676+/-0.469  $\chi^2/\text{NDF}$ : 254033.6/16

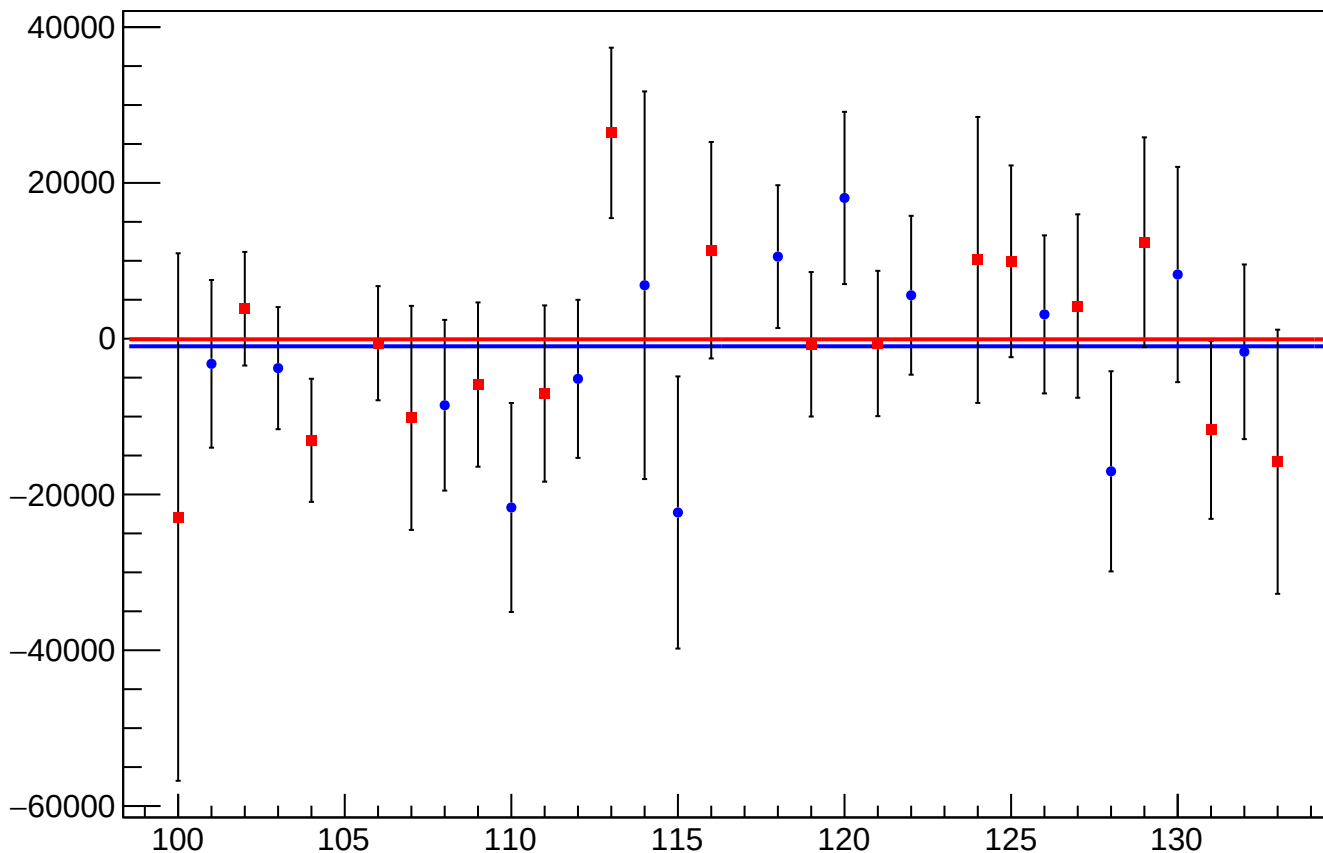
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1675.931+/-0.340  $\chi^2/\text{NDF}$ : 524634.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_dit\_correction\_mean vs Slug



Right In: -976.409 $\pm$ 2987.659  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -77.241 $\pm$ 2616.686  $\chi^2$ /NDF: 15.0/16

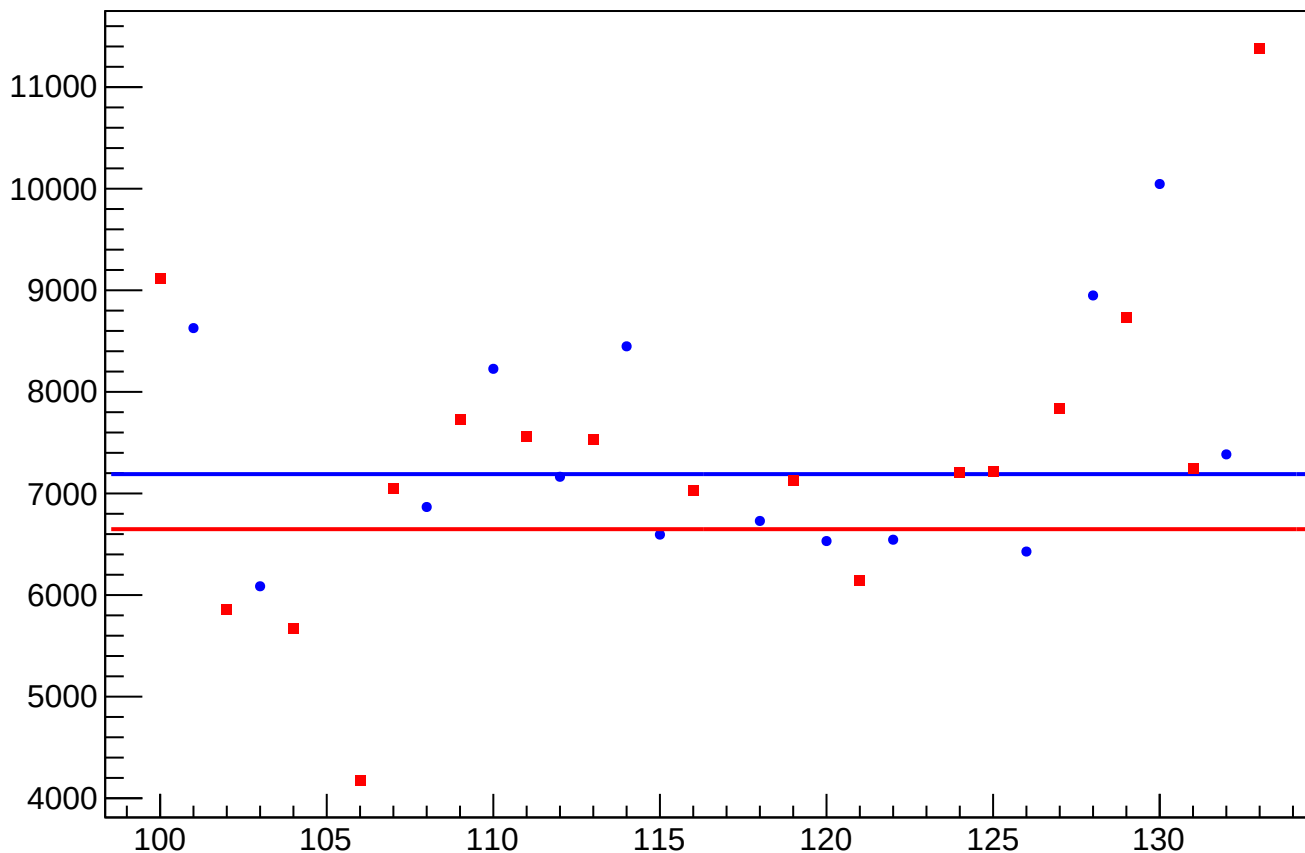
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -467.565 $\pm$ 1968.445  $\chi^2$ /NDF: 27.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_avg\_dit\_correction\_rms vs Slug



Right In: 7190.438+/-2.113  $\chi^2/\text{NDF}$ : 251372.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6648.543+/-1.850  $\chi^2/\text{NDF}$ : 589412.5/16

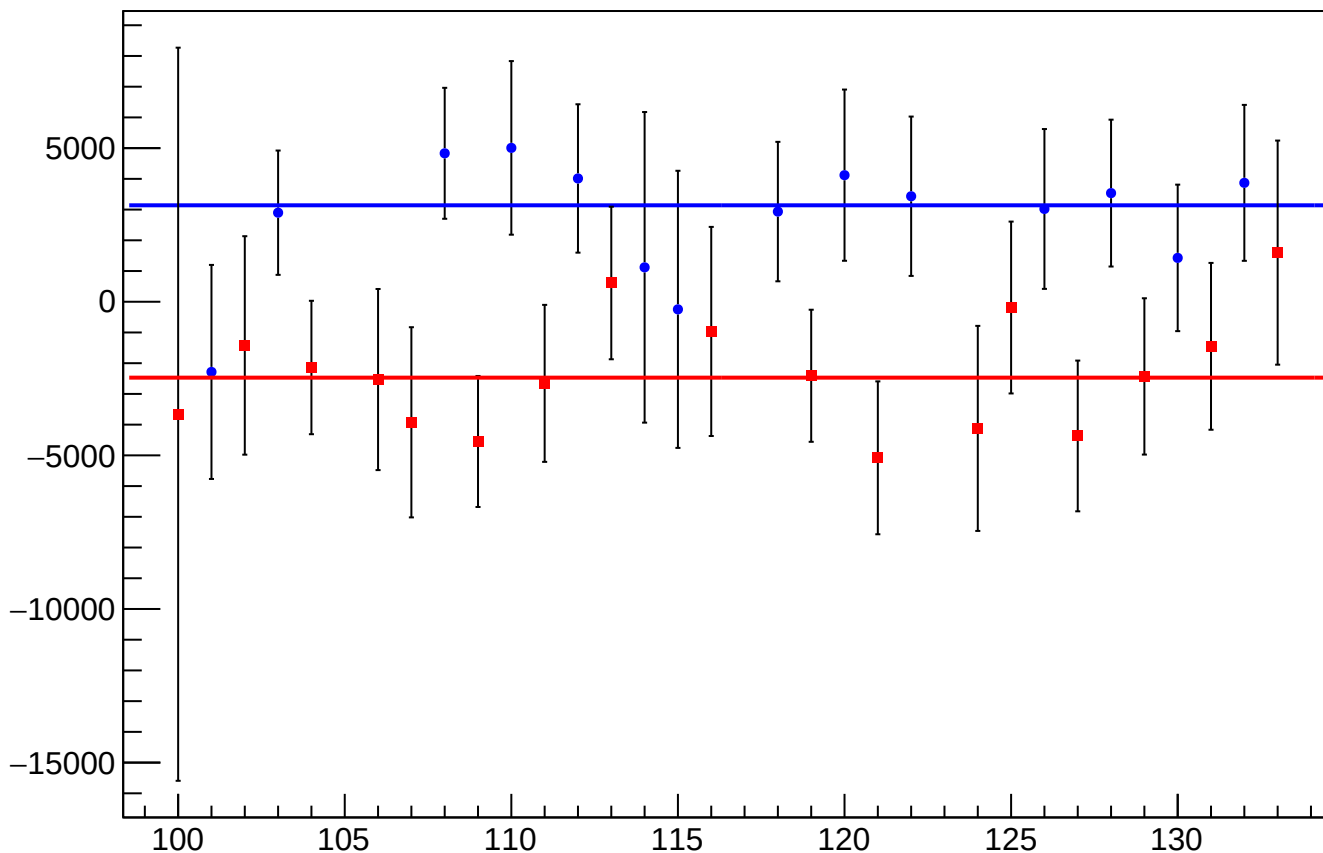
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6883.777+/-1.392  $\chi^2/\text{NDF}$ : 878018.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_at2\_avg\_mean vs Slug



Right In: 3139.320+/-697.140  $\chi^2/\text{NDF}$ : 5.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2470.357+/-664.229  $\chi^2/\text{NDF}$ : 7.0/16

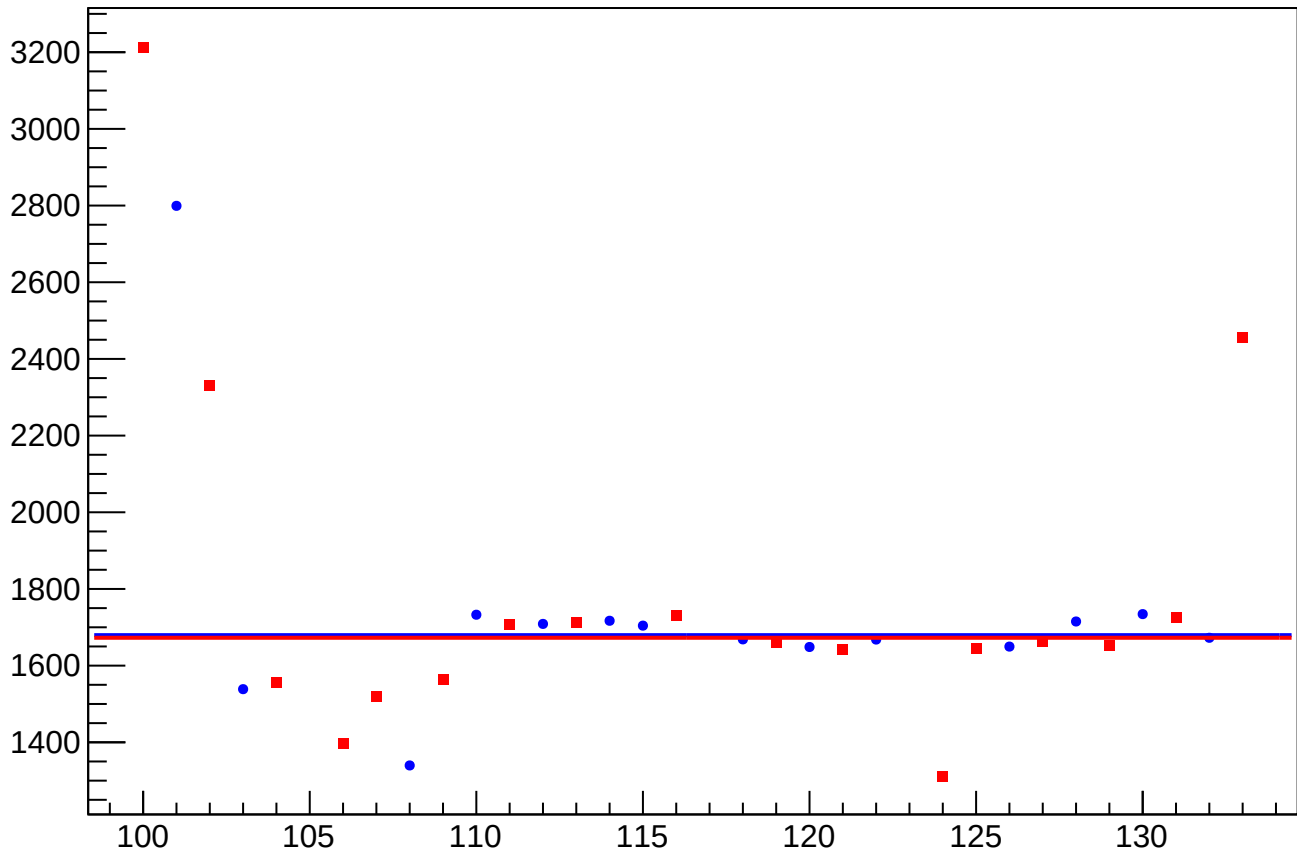
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 198.947+/-480.895  $\chi^2/\text{NDF}$ : 46.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_at2\_avg\_rms vs Slug



Right In: 1679.518+/-0.493  $\chi^2/\text{NDF}$ : 270499.3/13

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

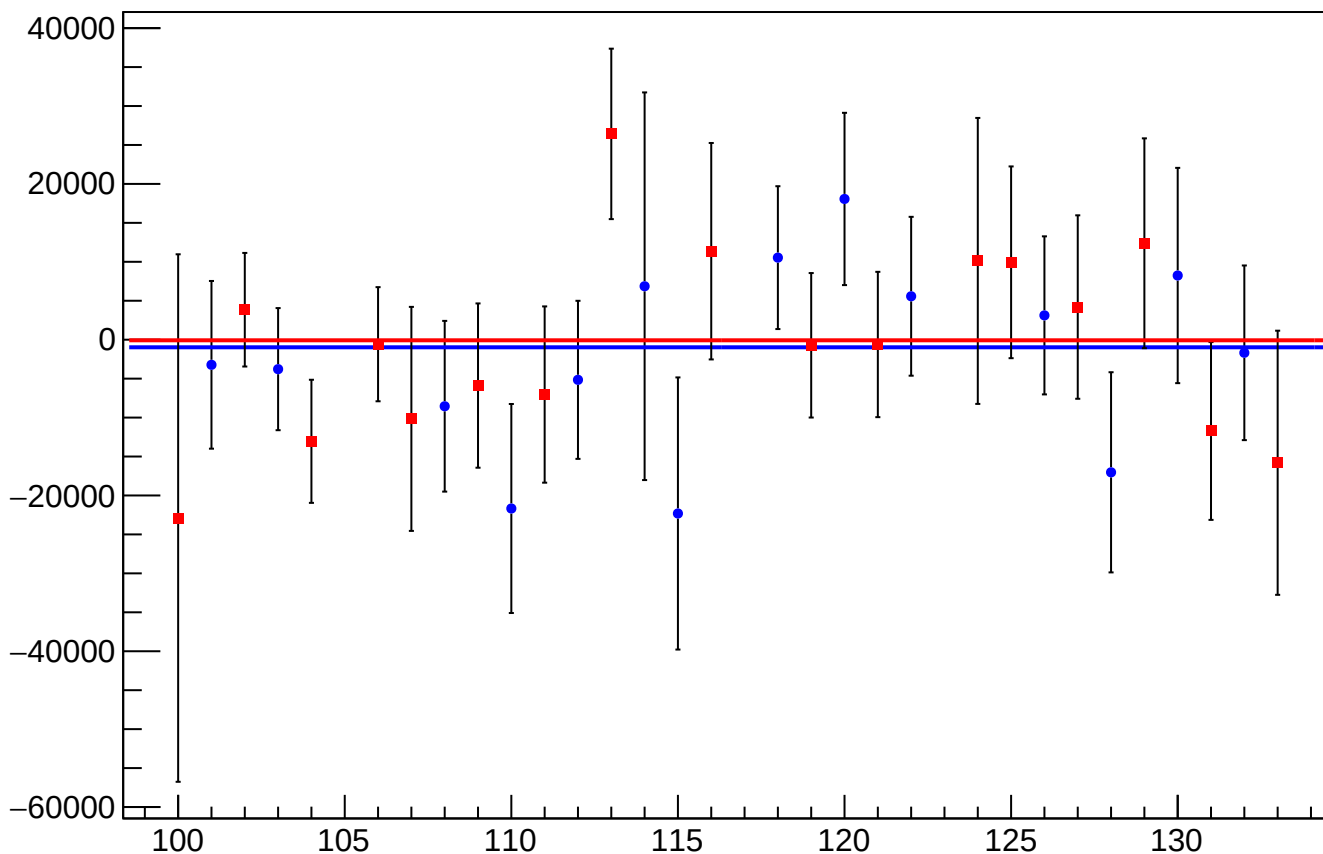
Right Out: 1672.676+/-0.469  $\chi^2/\text{NDF}$ : 254033.4/16

All: 1675.930+/-0.340  $\chi^2/\text{NDF}$ : 524633.7/30

- 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: -976.398+/-2987.650  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -77.248+/-2616.679  $\chi^2/\text{NDF}$ : 15.0/16

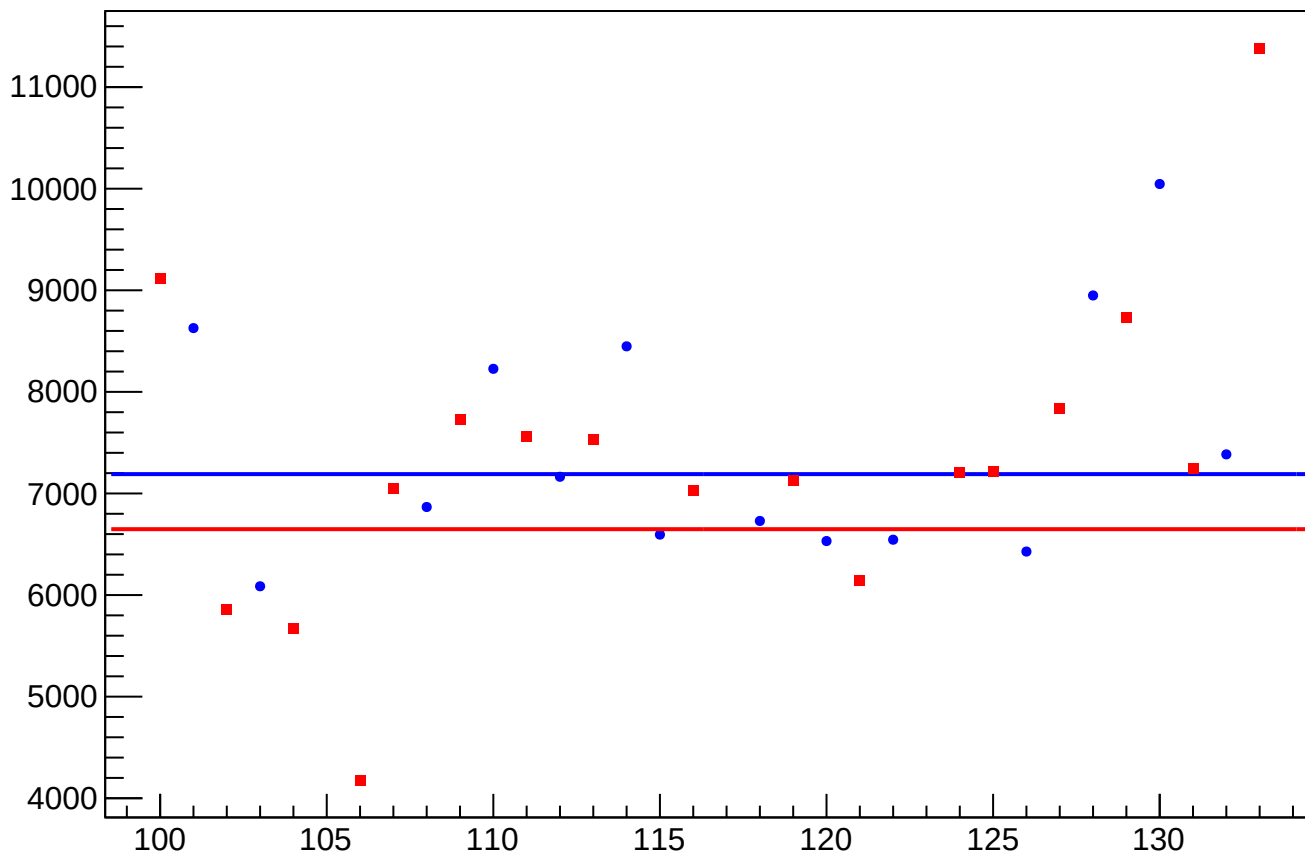
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -467.564+/-1968.440  $\chi^2/\text{NDF}$ : 27.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 7190.418+/-2.113  $\chi^2/\text{NDF}$ : 251371.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6648.527+/-1.850  $\chi^2/\text{NDF}$ : 589409.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

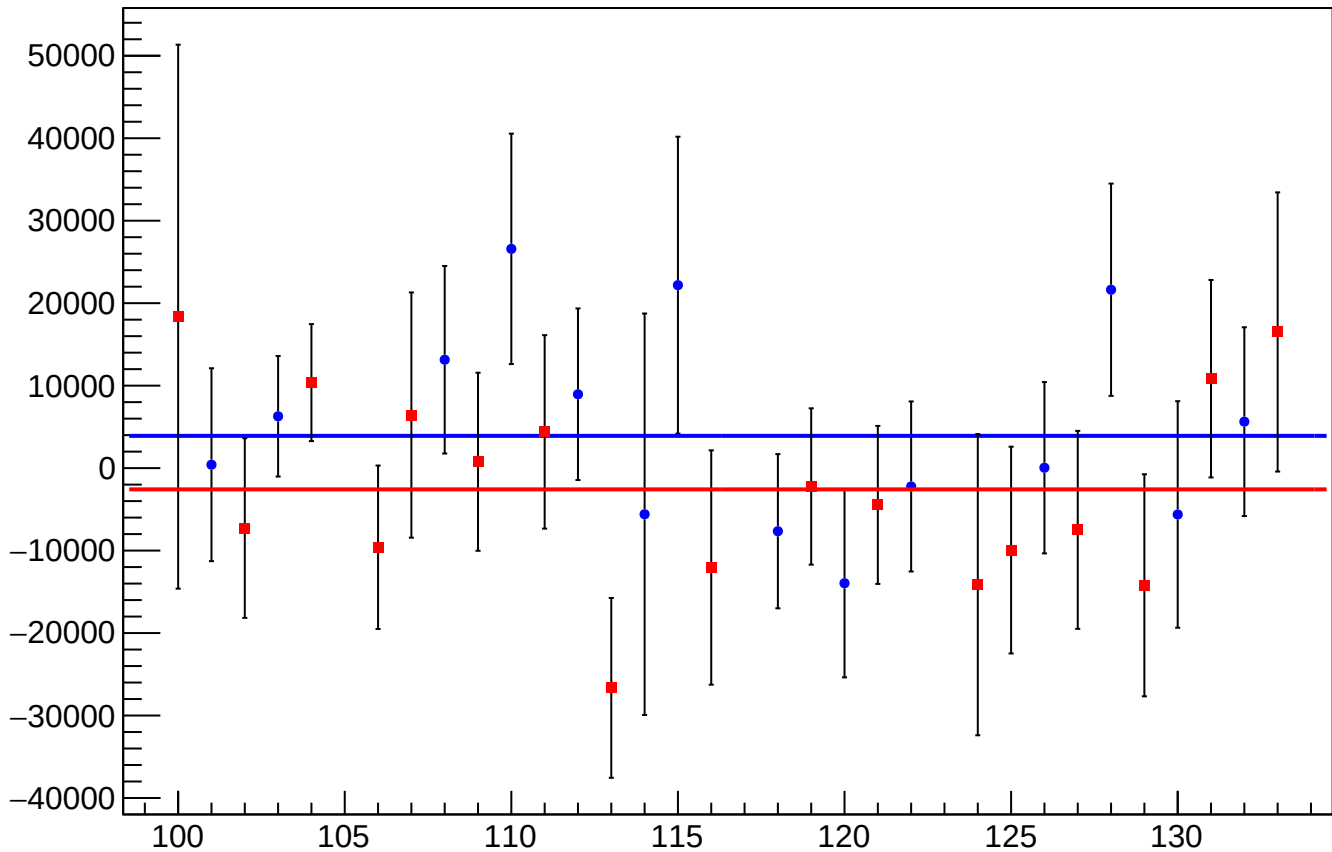
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6883.759+/-1.392  $\chi^2/\text{NDF}$ : 878014.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_at2\_avg\_mean vs Slug



Right In: 3911.510+/-3019.812  $\chi^2/\text{NDF}$ : 11.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2577.405+/-2800.985  $\chi^2/\text{NDF}$ : 14.8/16

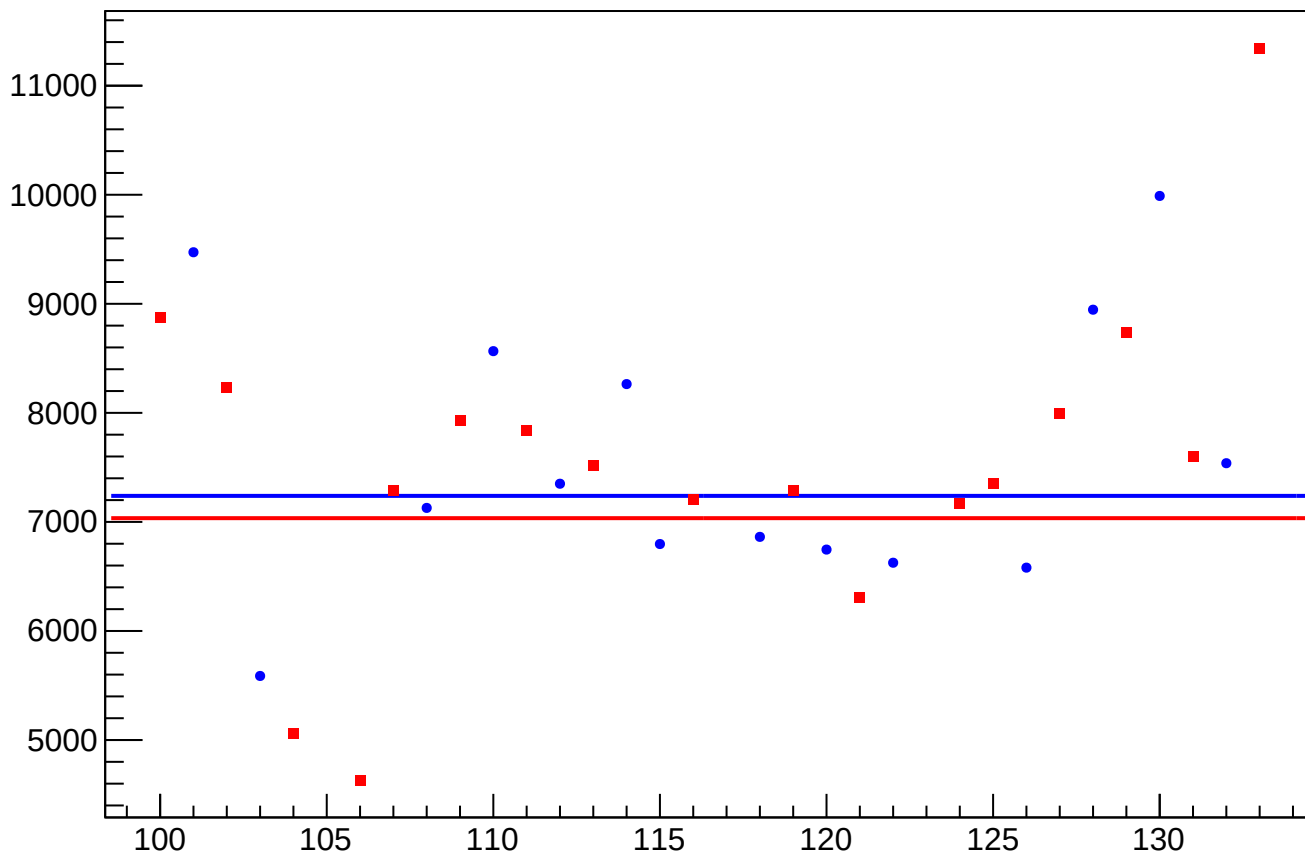
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 423.452+/-2053.603  $\chi^2/\text{NDF}$ : 29.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_rms vs Slug



Right In: 7238.818 $\pm$ 2.135  $\chi^2$ /NDF: 337032.3/13

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

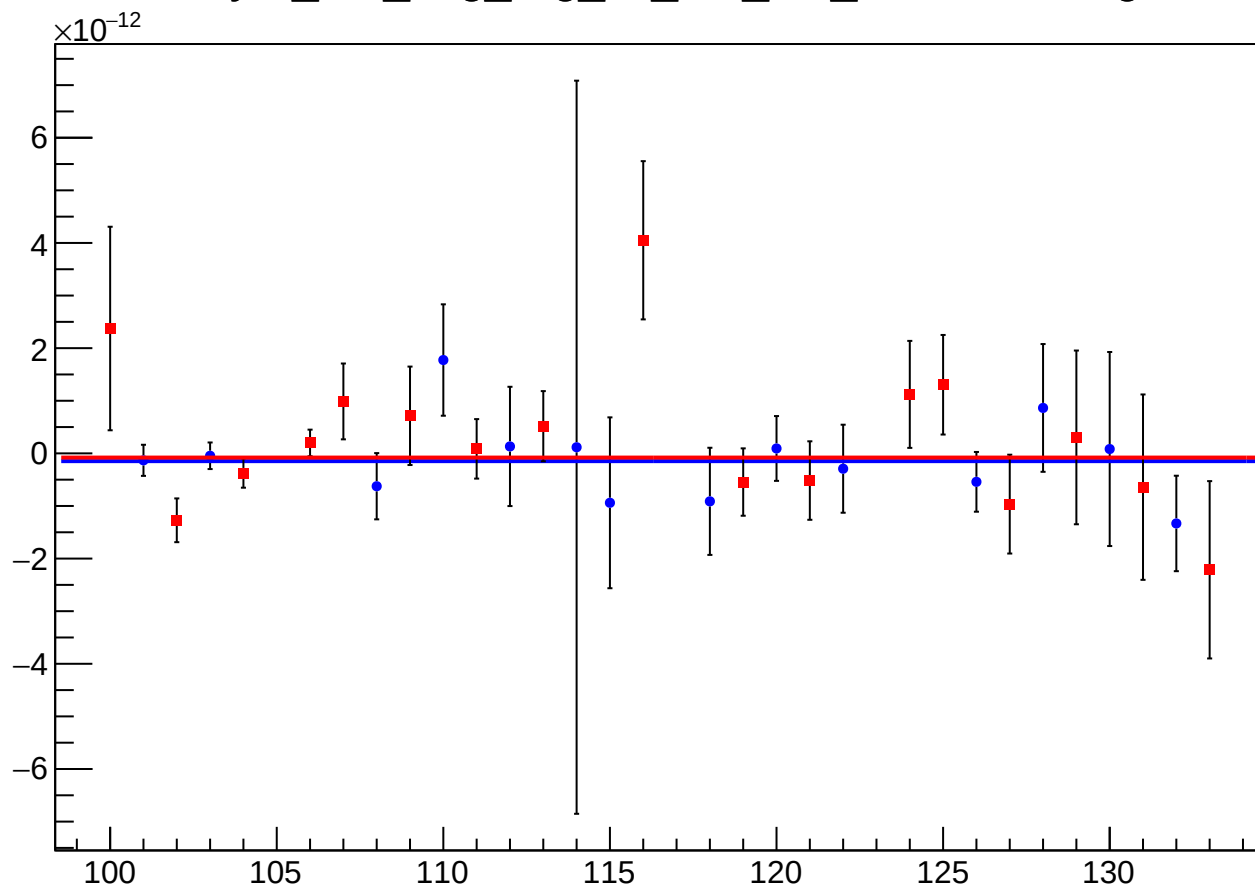
Right Out: 7034.408 $\pm$ 1.980  $\chi^2$ /NDF: 523319.2/16

All: 7128.932 $\pm$ 1.452  $\chi^2$ /NDF: 865277.8/30

- 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\_at2\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 30.5/16

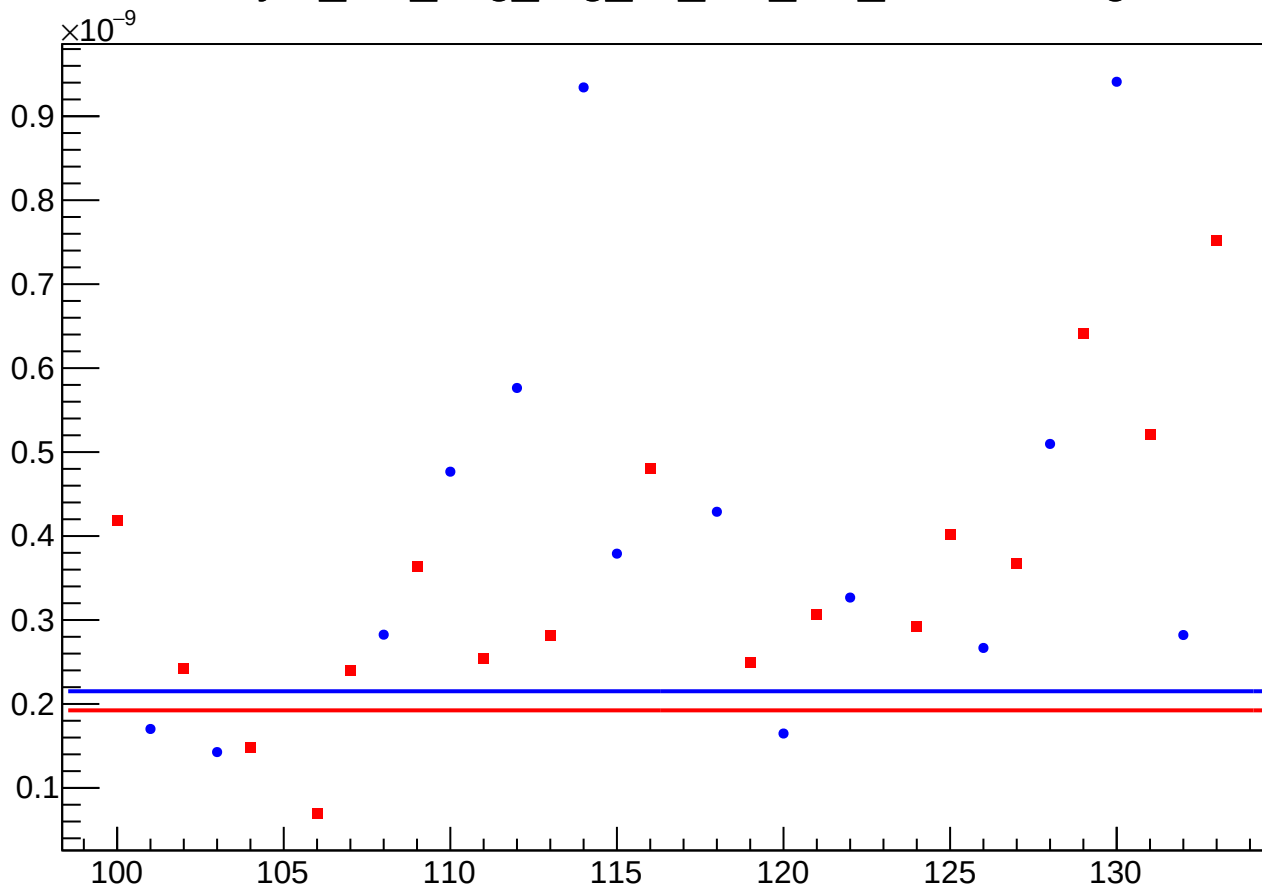
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 38.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1192101.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1475828.6/16

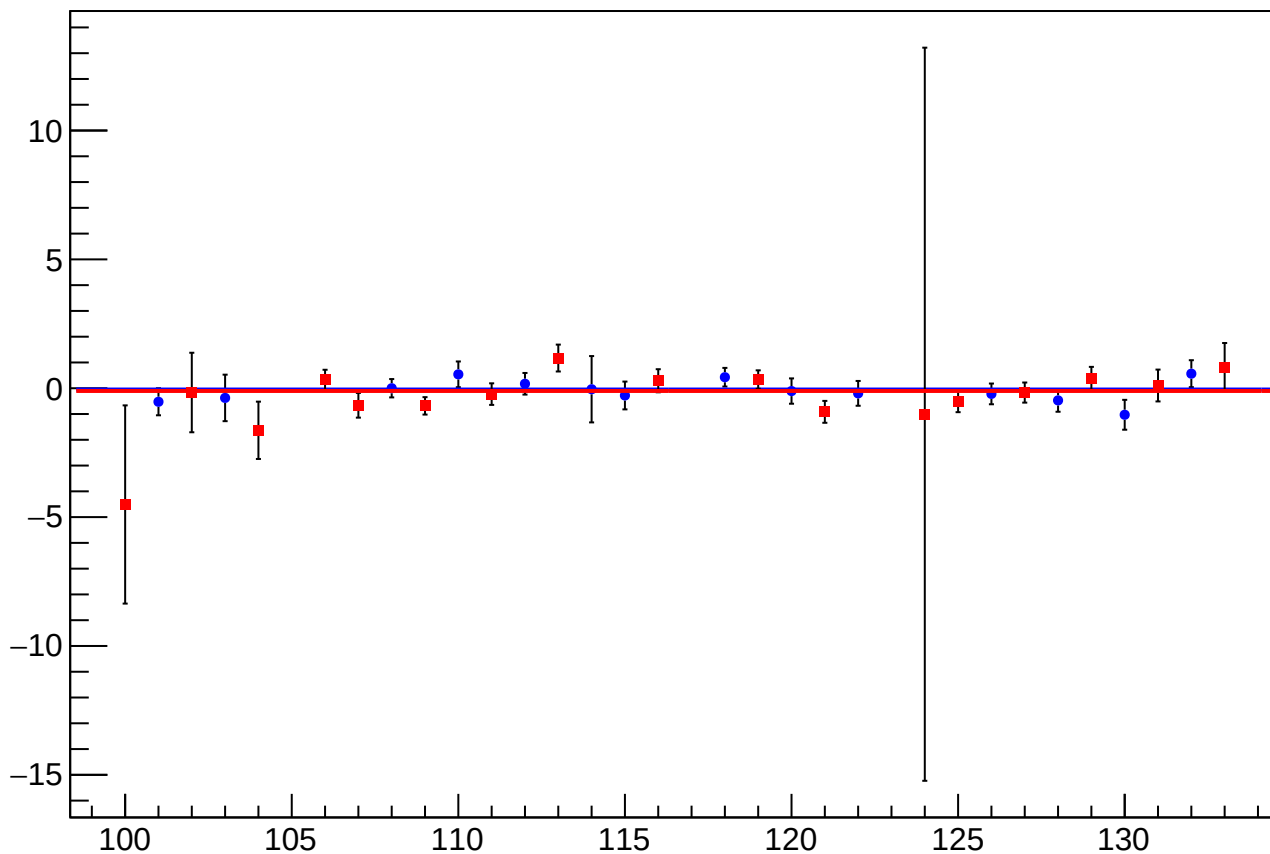
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2691979.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.050 \pm 0.128$   $\chi^2/\text{NDF}$ : 10.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.105 \pm 0.120$   $\chi^2/\text{NDF}$ : 24.0/16

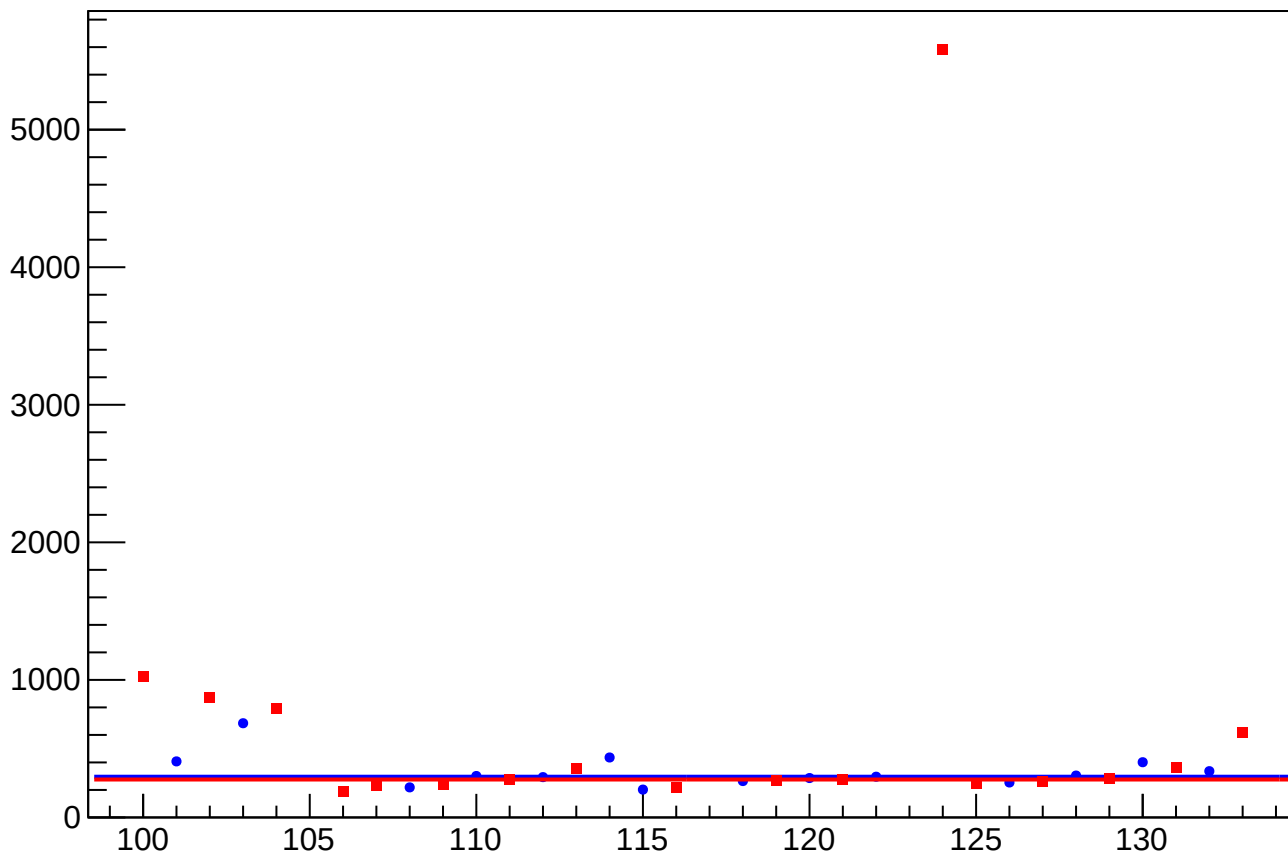
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.080 \pm 0.088$   $\chi^2/\text{NDF}$ : 34.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 296.183+/-0.091  $\chi^2/\text{NDF}$ : 757392.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 275.826+/-0.085  $\chi^2/\text{NDF}$ : 1638038.0/16

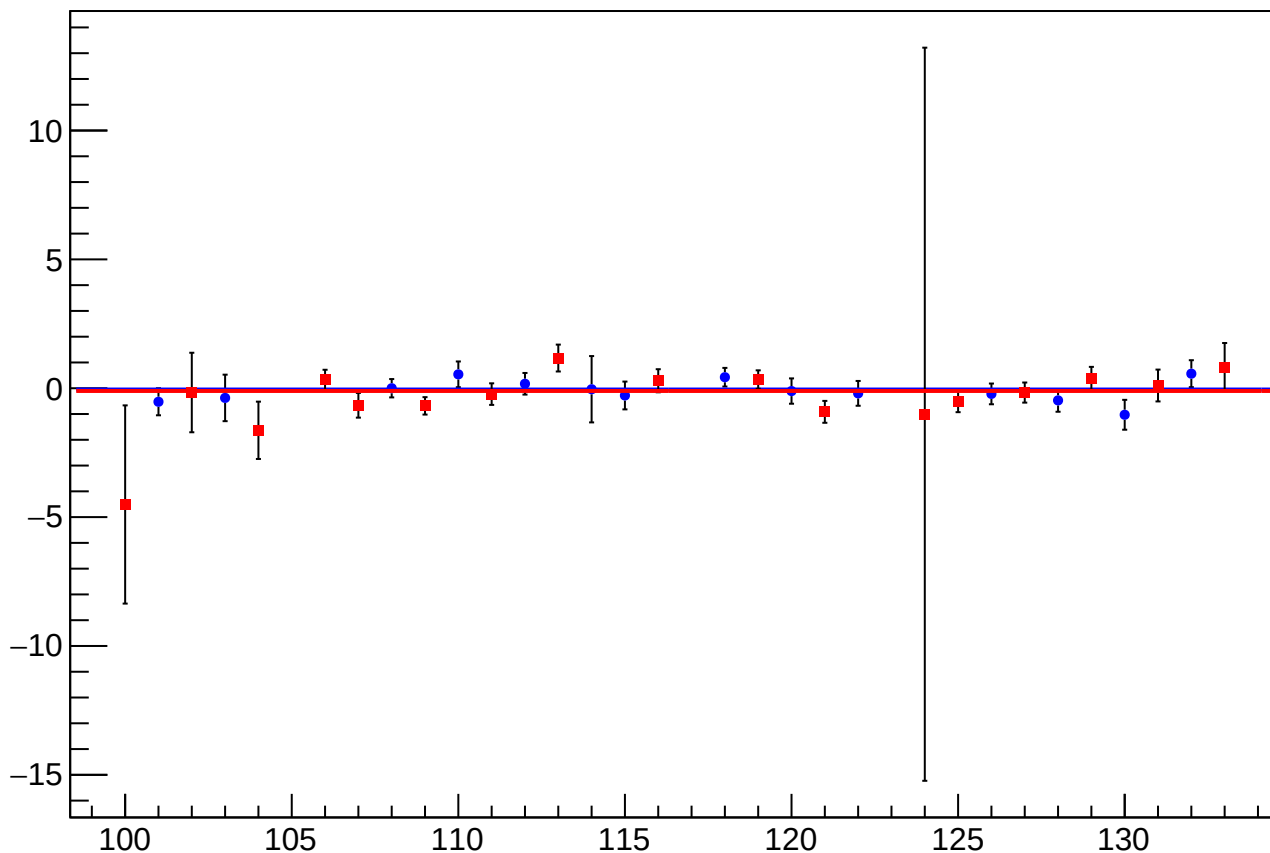
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 285.280+/-0.062  $\chi^2/\text{NDF}$ : 2422314.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.050 \pm 0.128$   $\chi^2/\text{NDF}$ : 10.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.105 \pm 0.120$   $\chi^2/\text{NDF}$ : 24.0/16

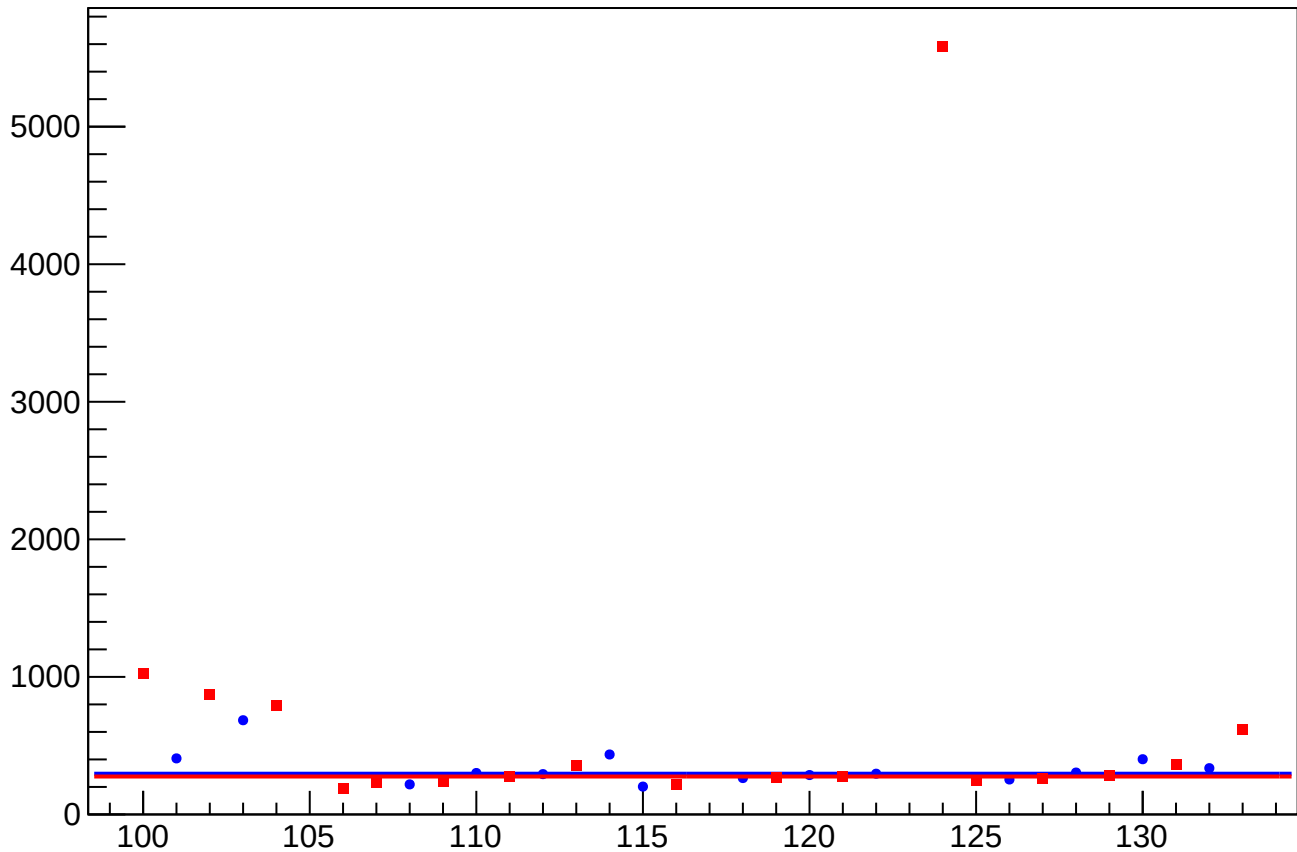
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.080 \pm 0.088$   $\chi^2/\text{NDF}$ : 34.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 296.183+/-0.091  $\chi^2/\text{NDF}$ : 757392.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 275.826+/-0.085  $\chi^2/\text{NDF}$ : 1638038.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

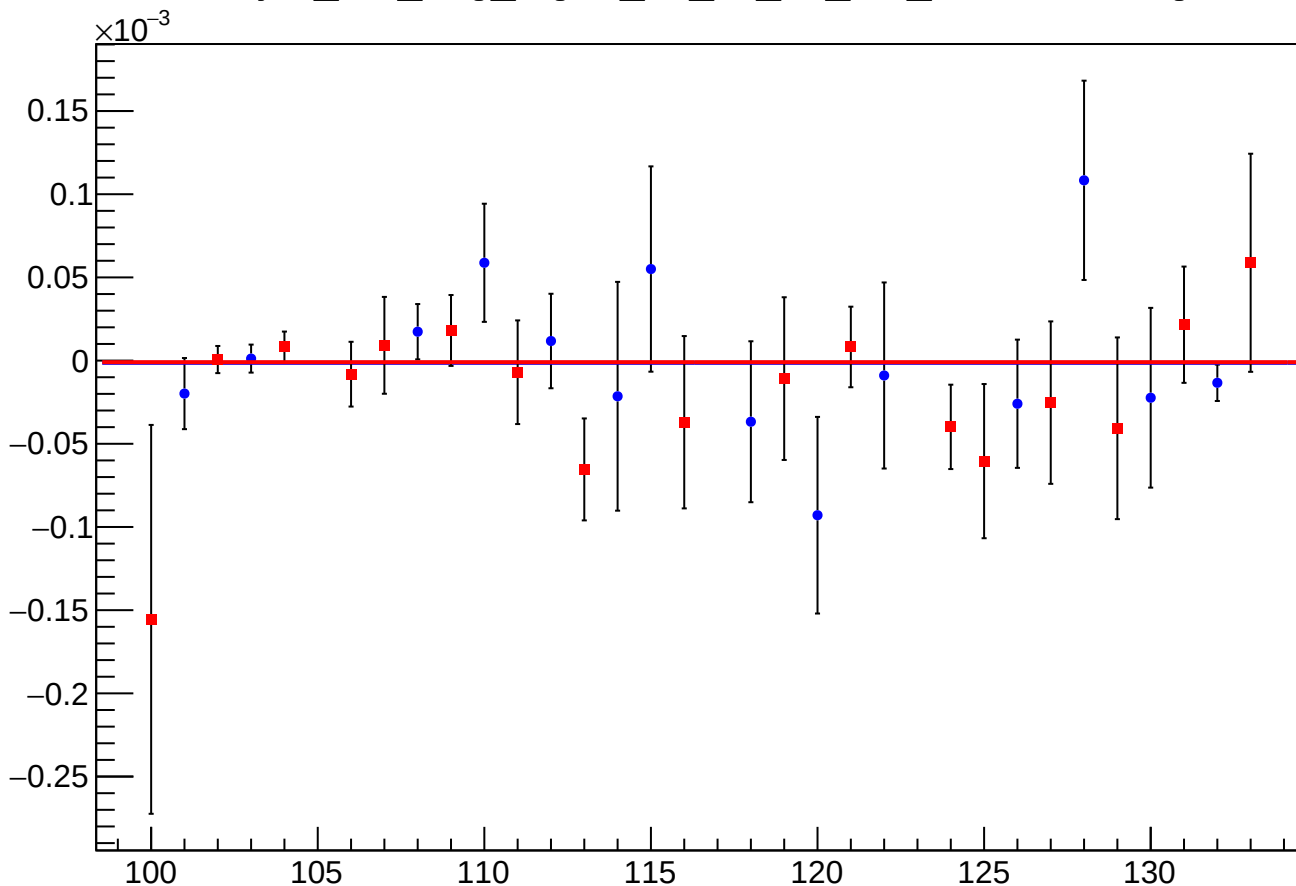
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 285.280+/-0.062  $\chi^2/\text{NDF}$ : 2422314.5/30

- 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+/-0.000  $\chi^2$ /NDF: 14.2/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 15.0/16

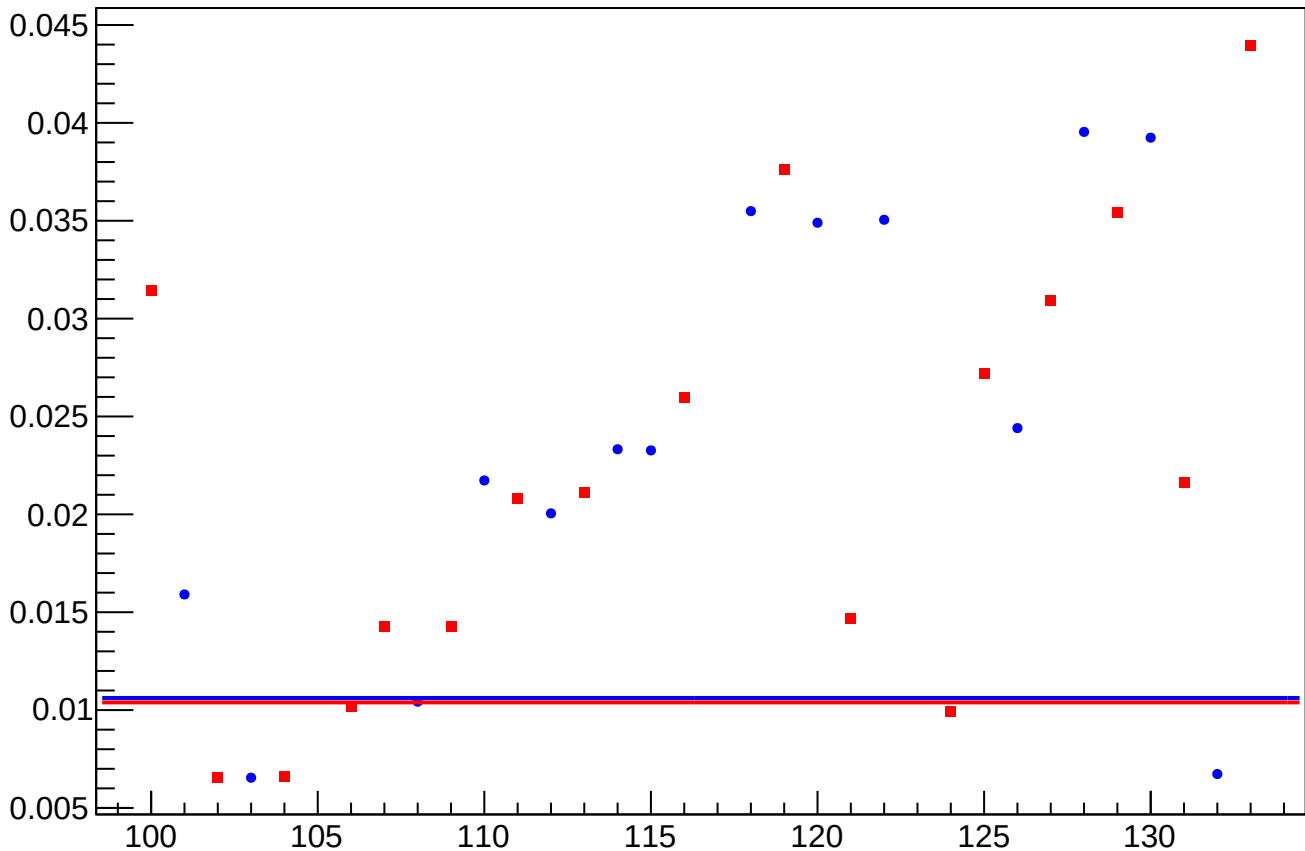
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 29.2/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 3944989.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 4039997.8/16

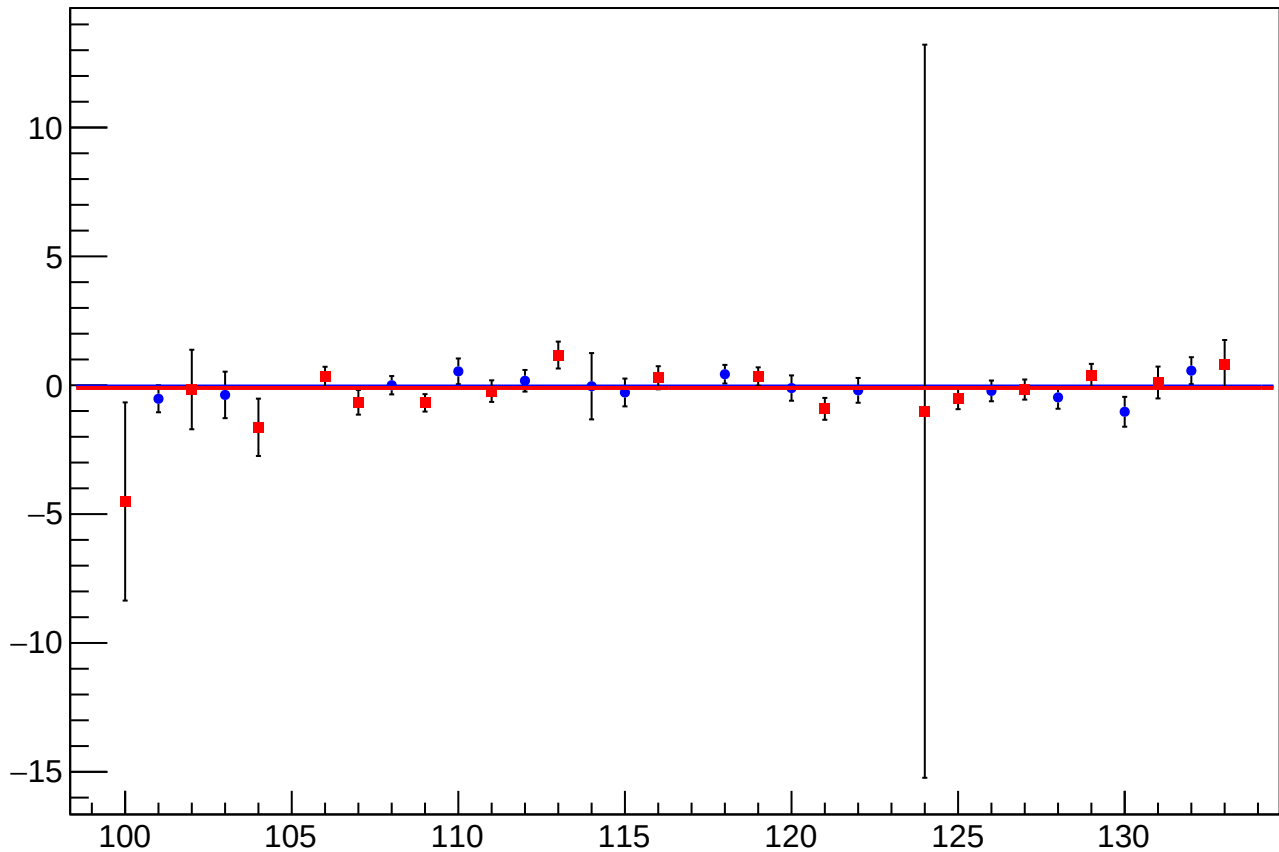
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 7986849.7/30

- 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:  $-0.050 \pm 0.128$   $\chi^2/\text{NDF}$ : 10.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.105 \pm 0.120$   $\chi^2/\text{NDF}$ : 24.0/16

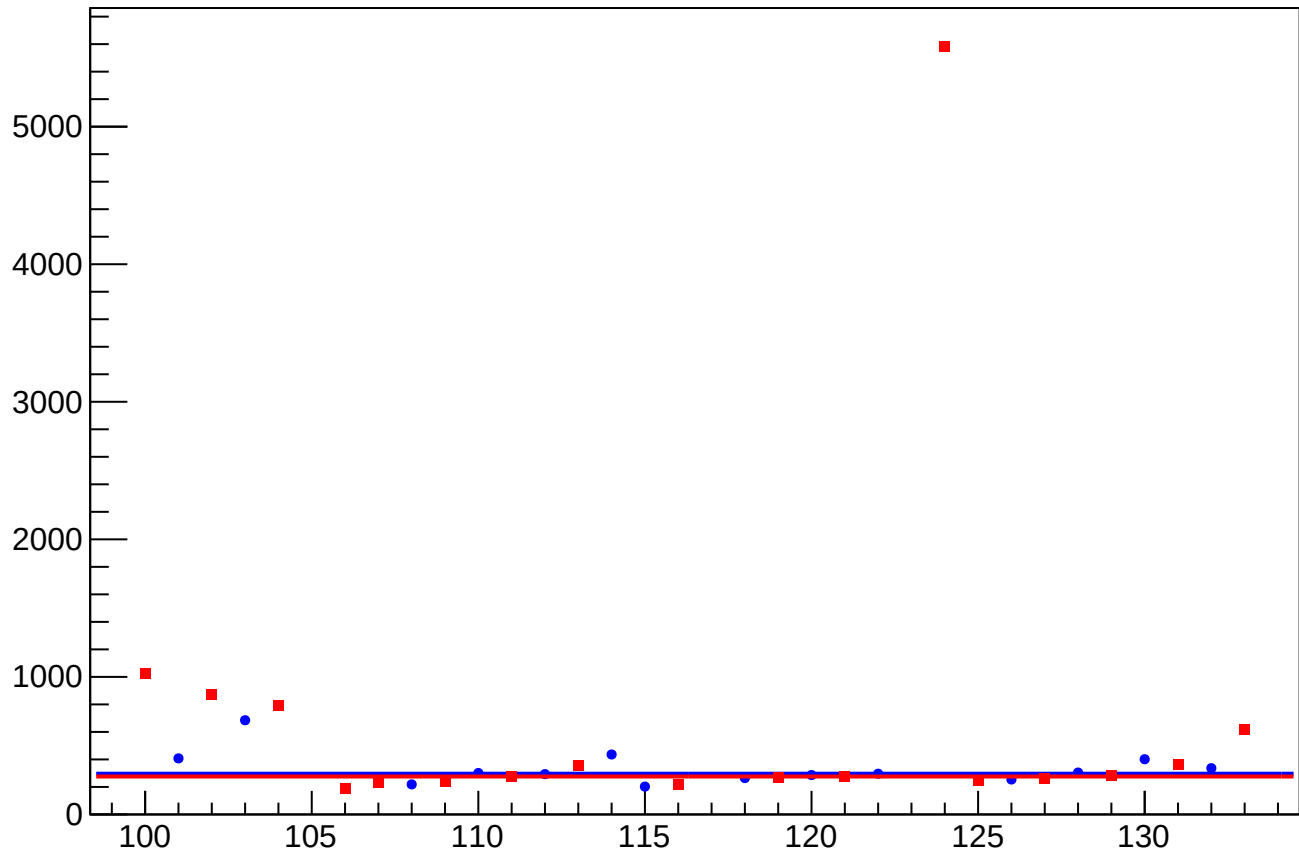
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.080 \pm 0.088$   $\chi^2/\text{NDF}$ : 34.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 296.181 $\pm$ 0.091  $\chi^2$ /NDF: 757340.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 275.825 $\pm$ 0.085  $\chi^2$ /NDF: 1638004.8/16

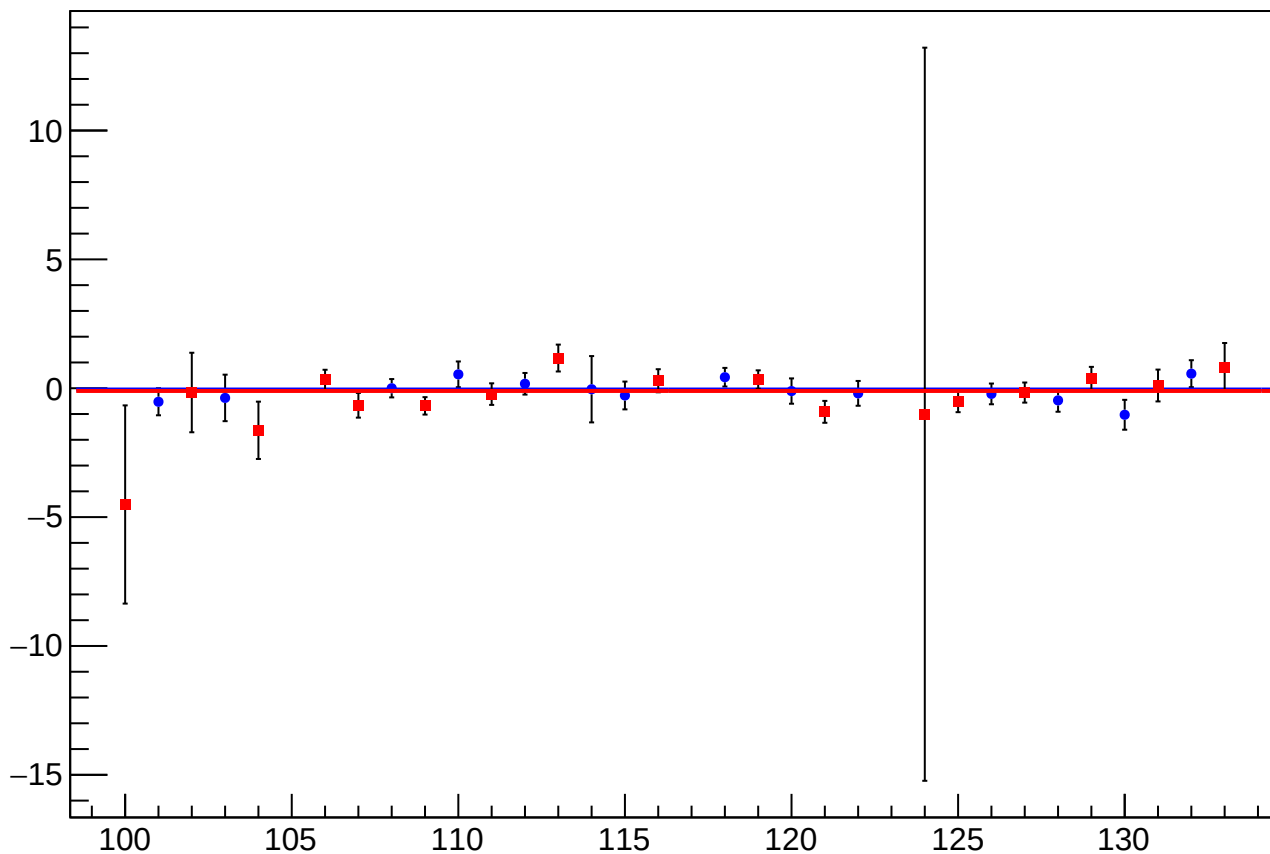
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 285.279 $\pm$ 0.062  $\chi^2$ /NDF: 2422229.2/30

- 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:  $-0.050 \pm 0.128$   $\chi^2/\text{NDF}$ : 10.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.105 \pm 0.120$   $\chi^2/\text{NDF}$ : 24.0/16

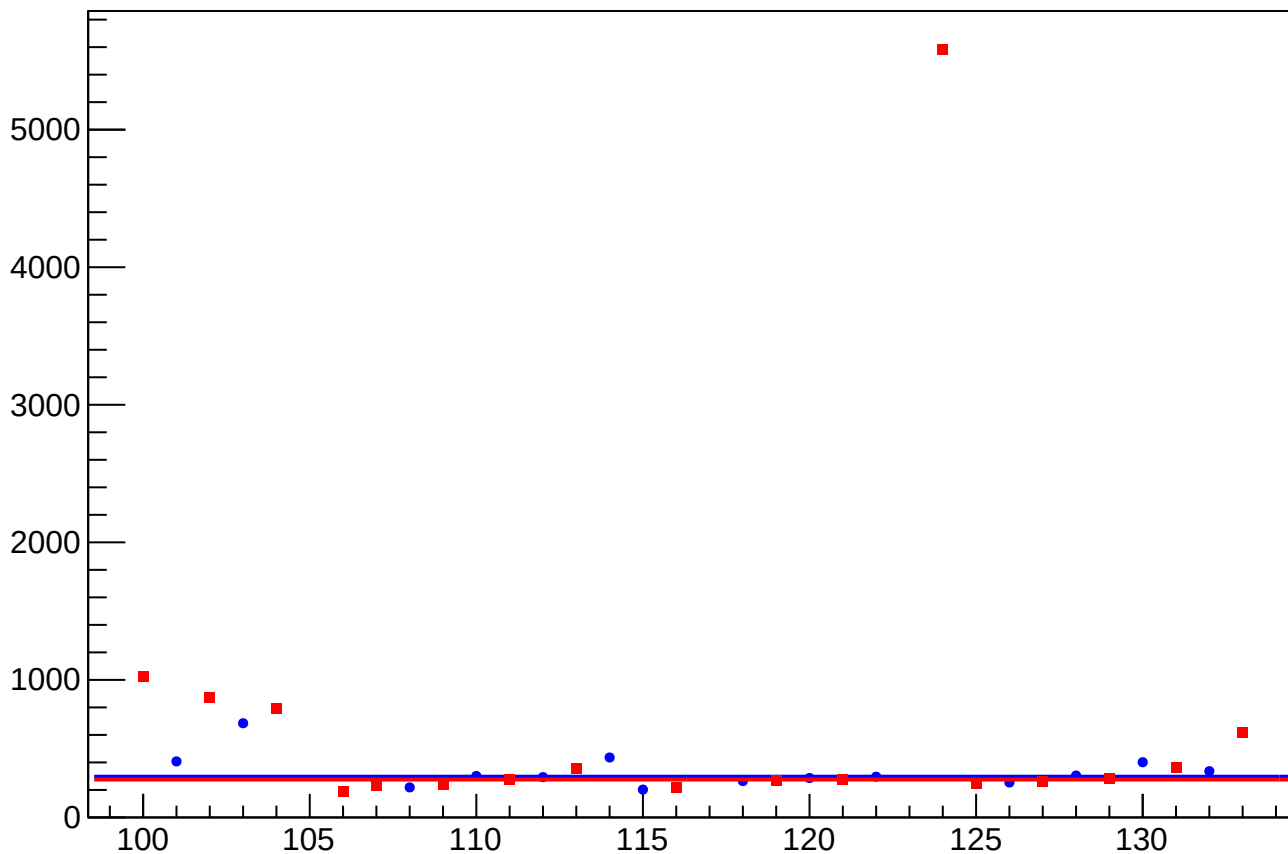
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.080 \pm 0.088$   $\chi^2/\text{NDF}$ : 34.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 296.181+/-0.091  $\chi^2/\text{NDF}$ : 757340.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 275.825+/-0.085  $\chi^2/\text{NDF}$ : 1638004.8/16

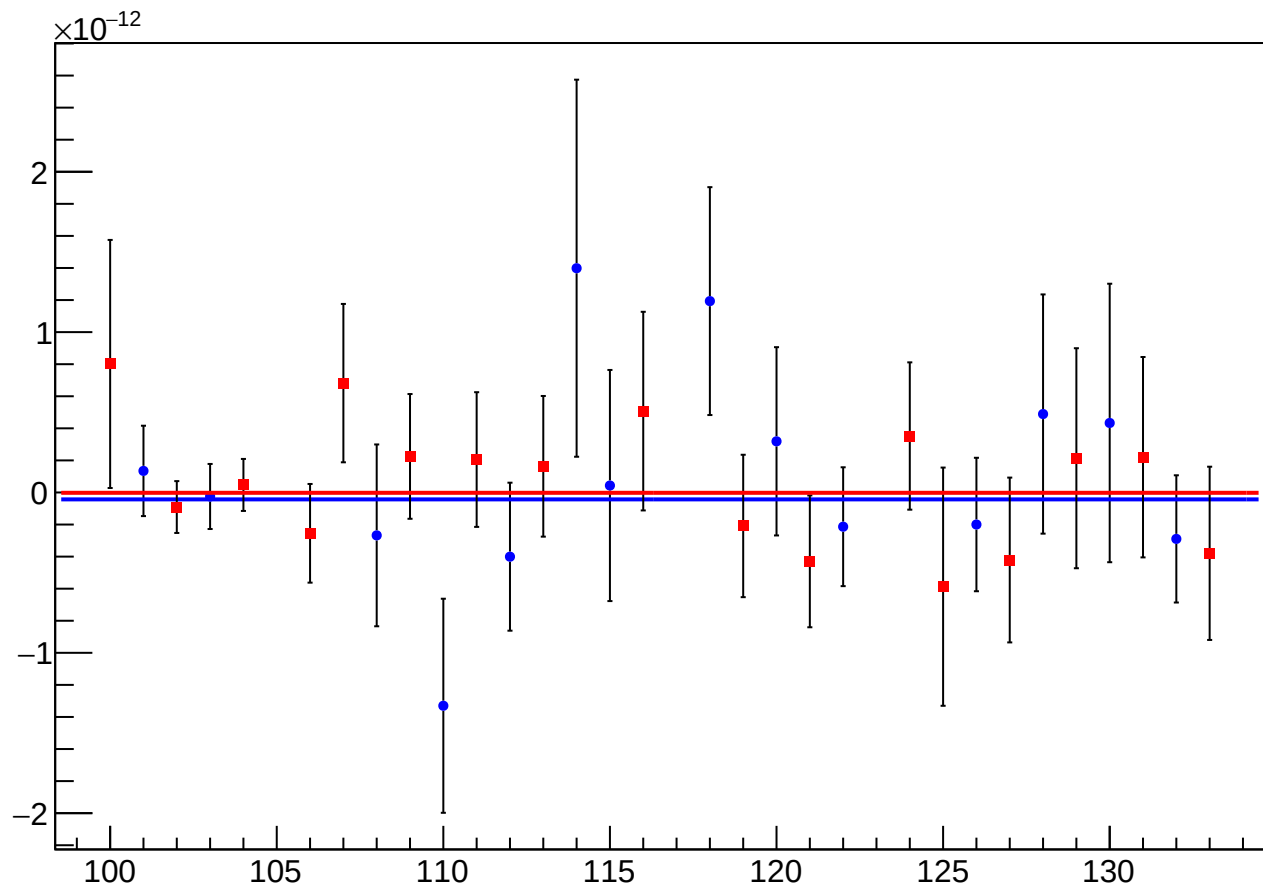
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 285.279+/-0.062  $\chi^2/\text{NDF}$ : 2422229.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 9.4/16

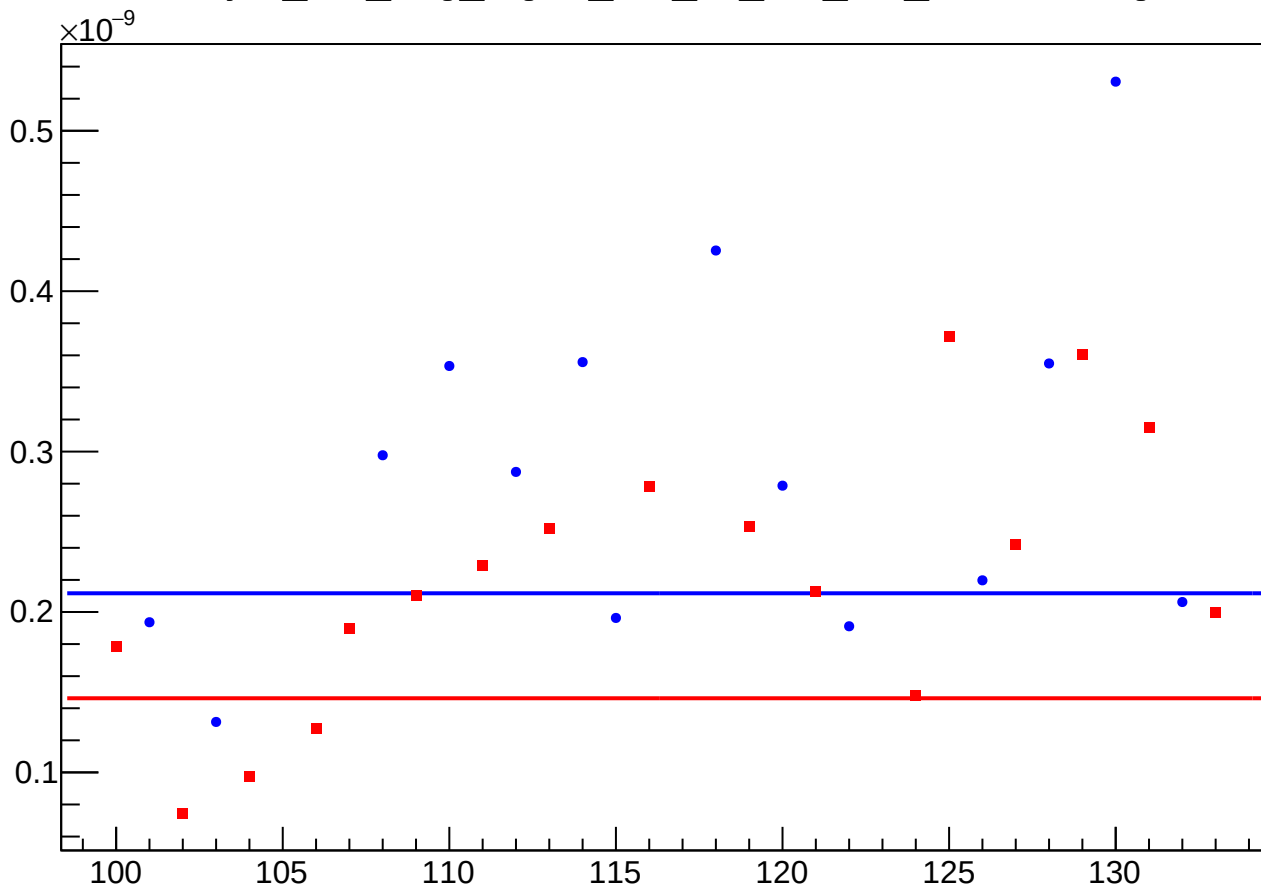
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 20.8/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_at2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1099627.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1726441.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

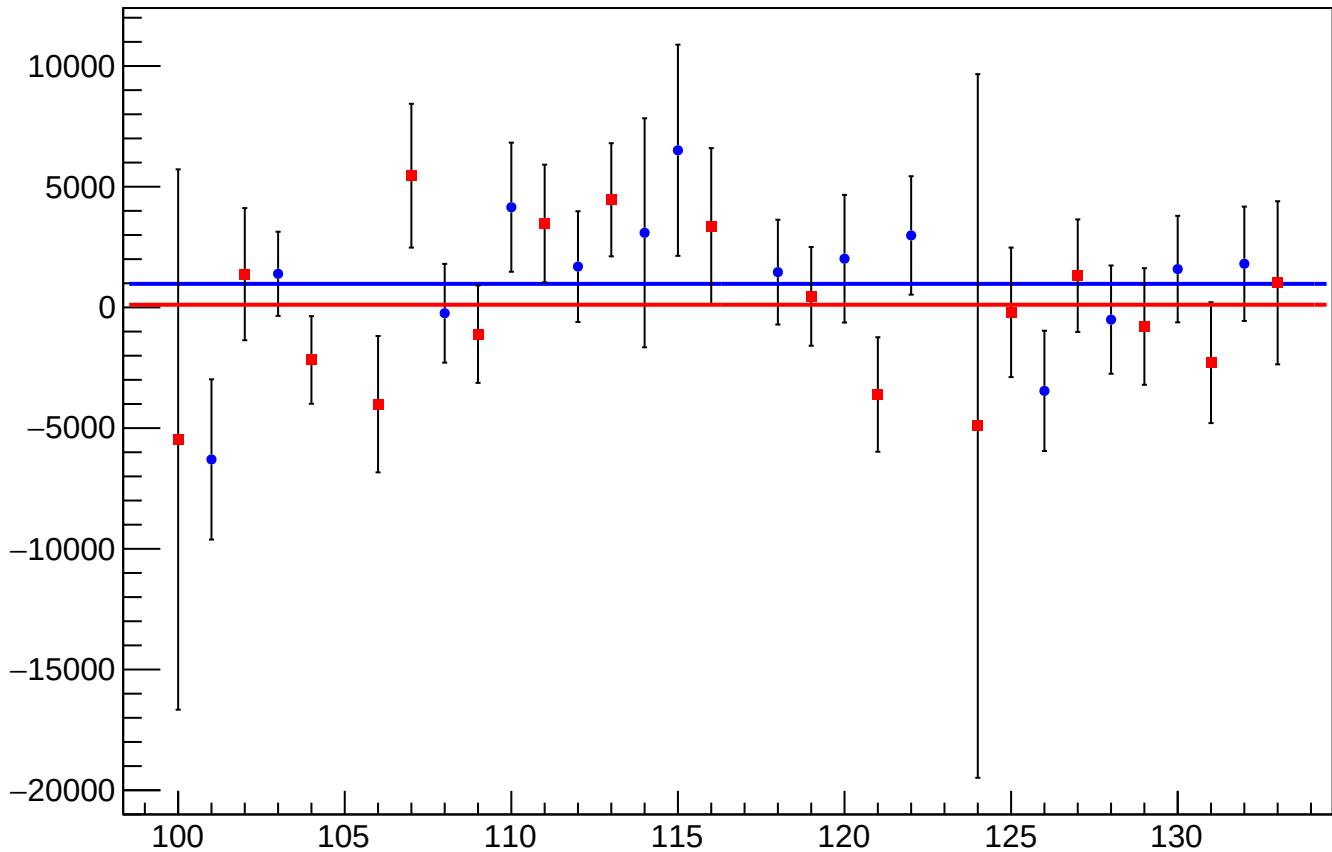
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3253908.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_at2\_dd\_mean vs Slug



Right In: 976.205+/-652.221  $\chi^2/\text{NDF}$ : 13.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 111.166+/-627.890  $\chi^2/\text{NDF}$ : 18.1/16

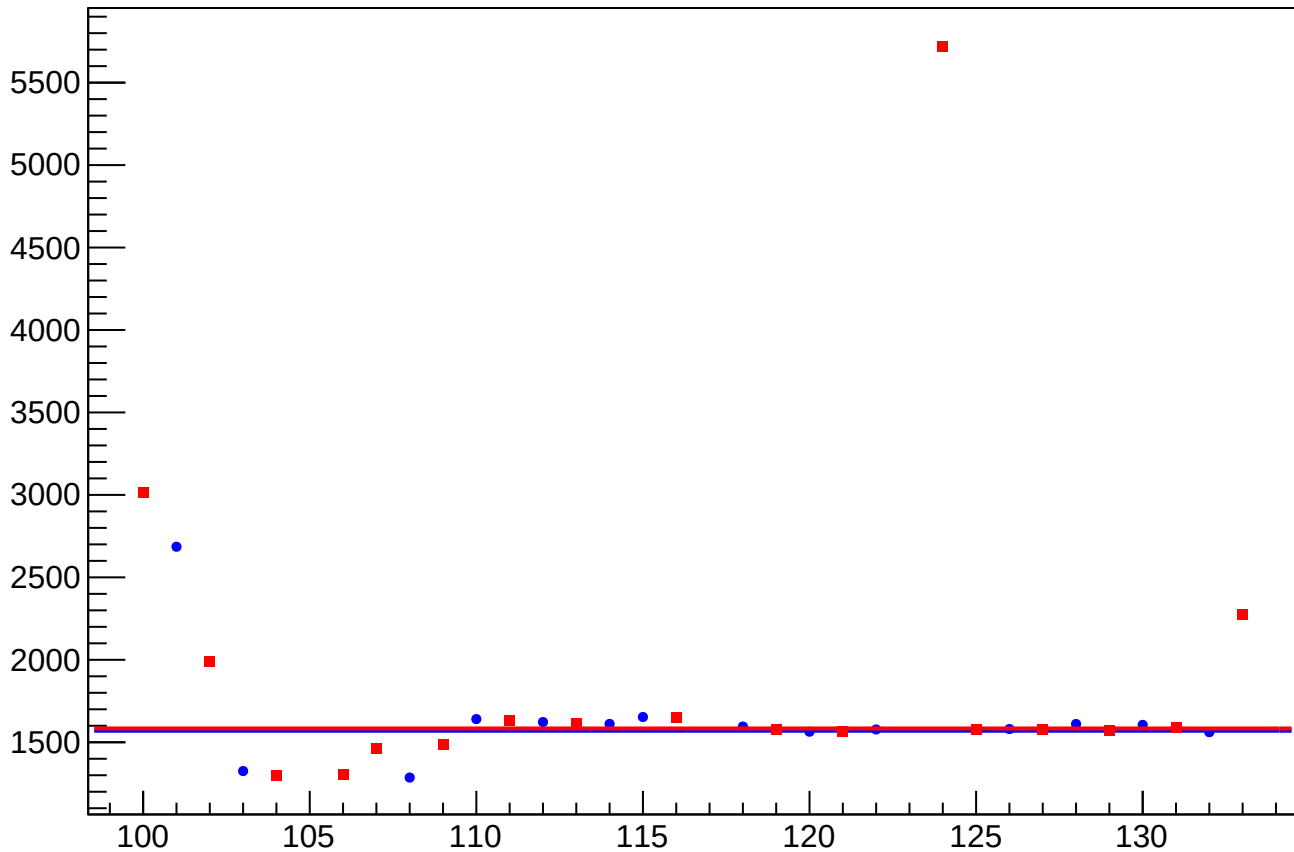
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 527.249+/-452.342  $\chi^2/\text{NDF}$ : 32.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_dd\_rms vs Slug



Right In: 1570.090+/-0.461  $\chi^2$ /NDF: 308628.1/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1583.715+/-0.444  $\chi^2$ /NDF: 399729.3/16

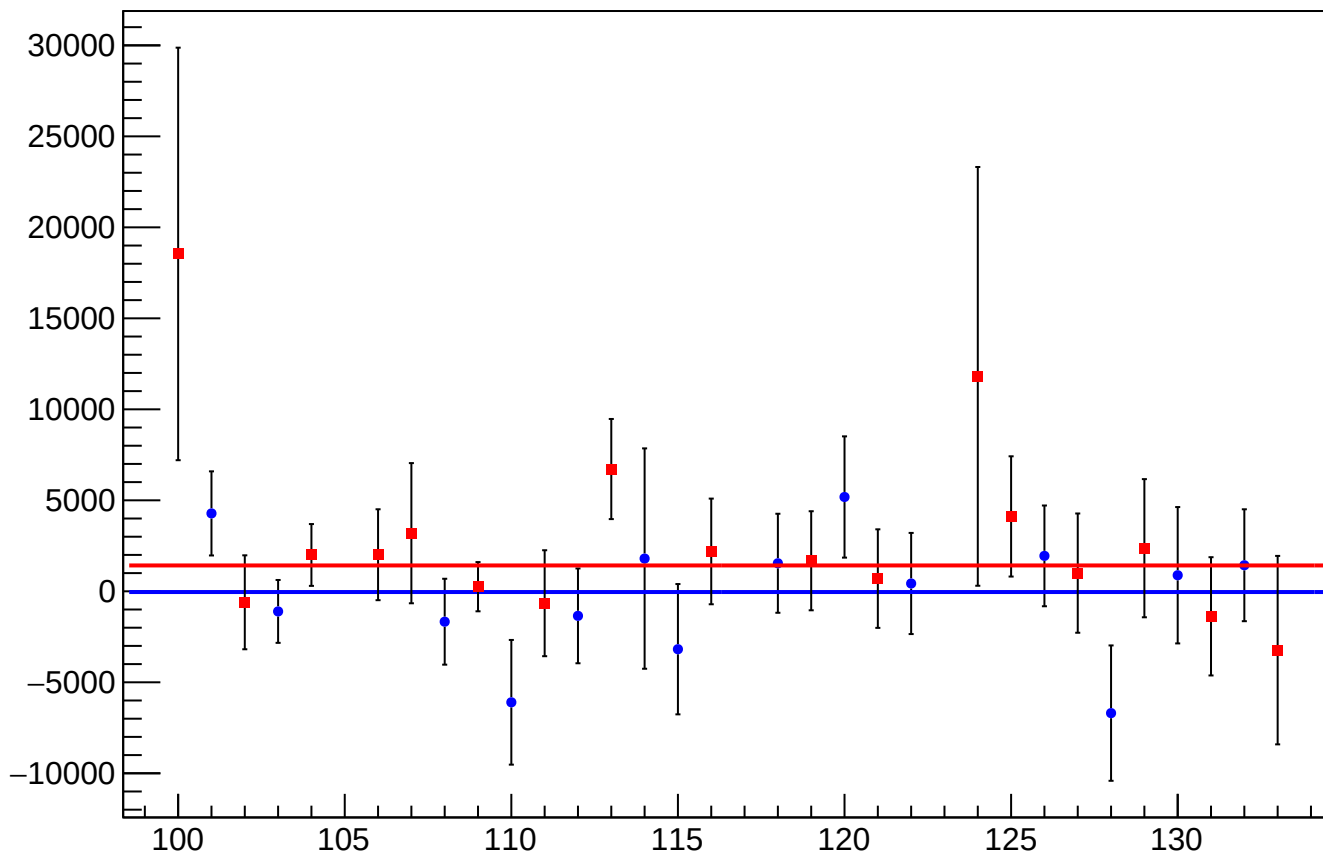
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 1577.161+/-0.320  $\chi^2$ /NDF: 708810.5/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_reg\_correction\_mean vs Slug



Right In:  $-40.102 \pm 750.775$   $\chi^2/\text{NDF}$ : 15.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1421.049 \pm 657.543$   $\chi^2/\text{NDF}$ : 11.5/16

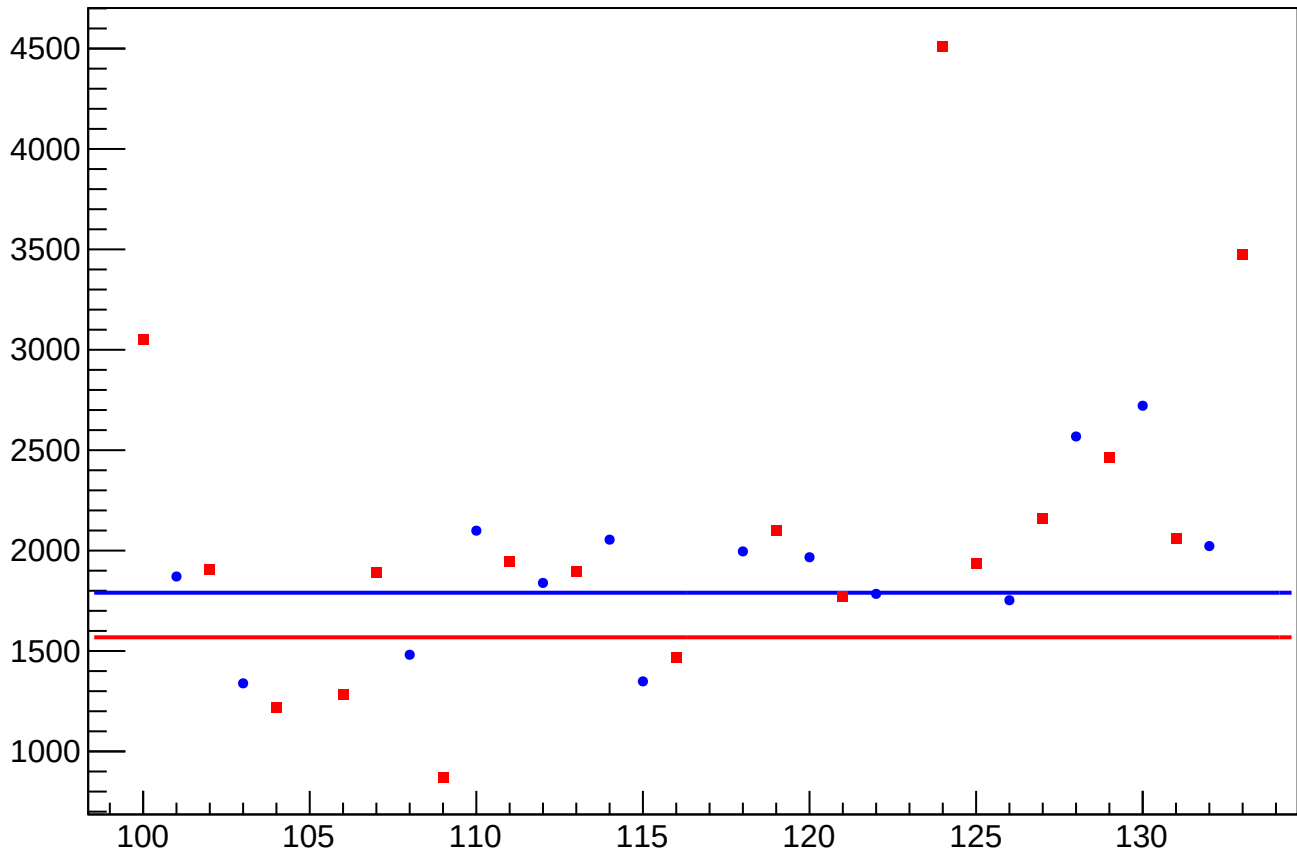
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $786.780 \pm 494.651$   $\chi^2/\text{NDF}$ : 29.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_reg\_correction\_rms vs Slug



Right In: 1790.251+/-0.531  $\chi^2/\text{NDF}$ : 464312.8/13

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

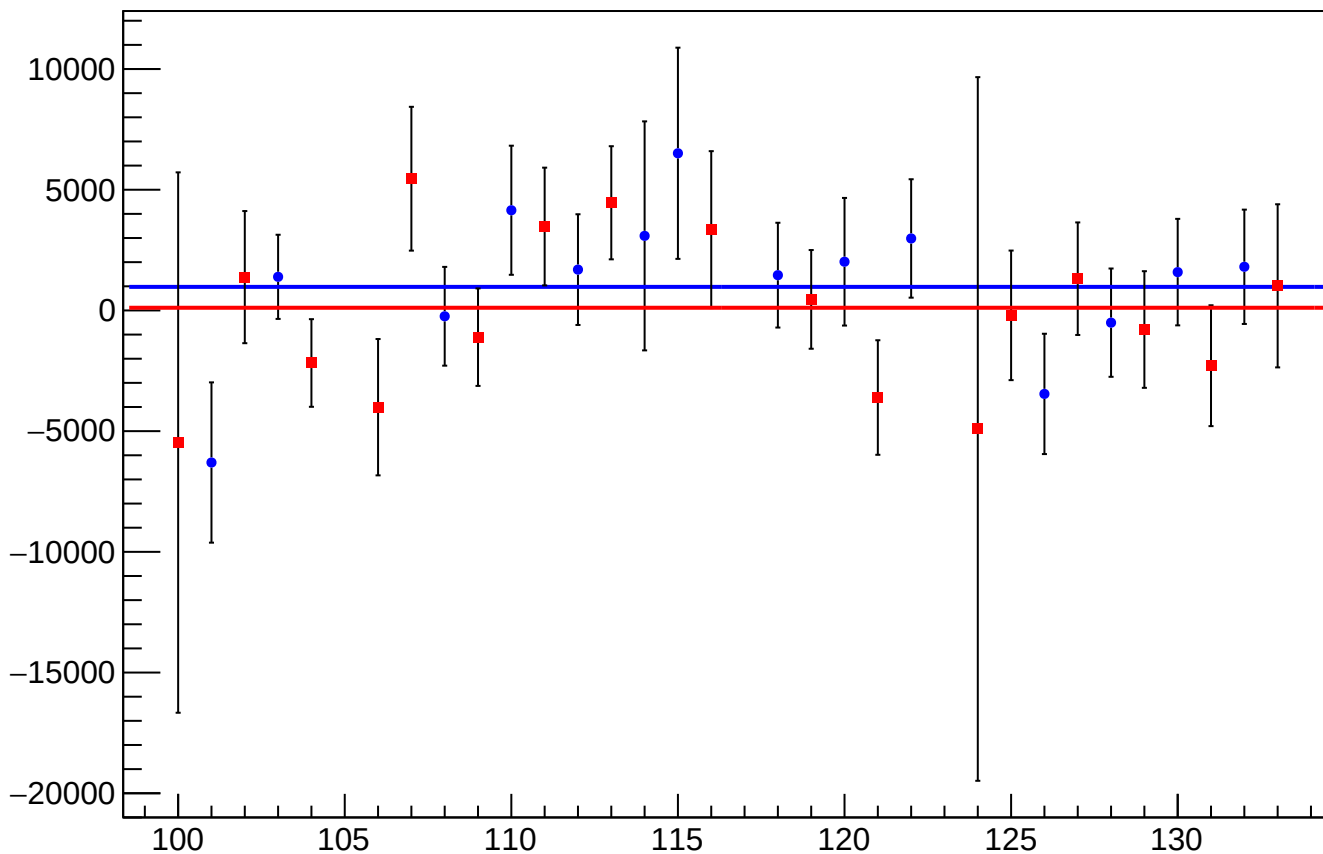
Right Out: 1568.221+/-0.465  $\chi^2/\text{NDF}$ : 1526828.4/16

All: 1664.601+/-0.350  $\chi^2/\text{NDF}$ : 2090129.4/30

- 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\_at2\_dd\_mean vs Slug



Right In: 976.035+/-652.221  $\chi^2/\text{NDF}$ : 13.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 111.397+/-627.890  $\chi^2/\text{NDF}$ : 18.1/16

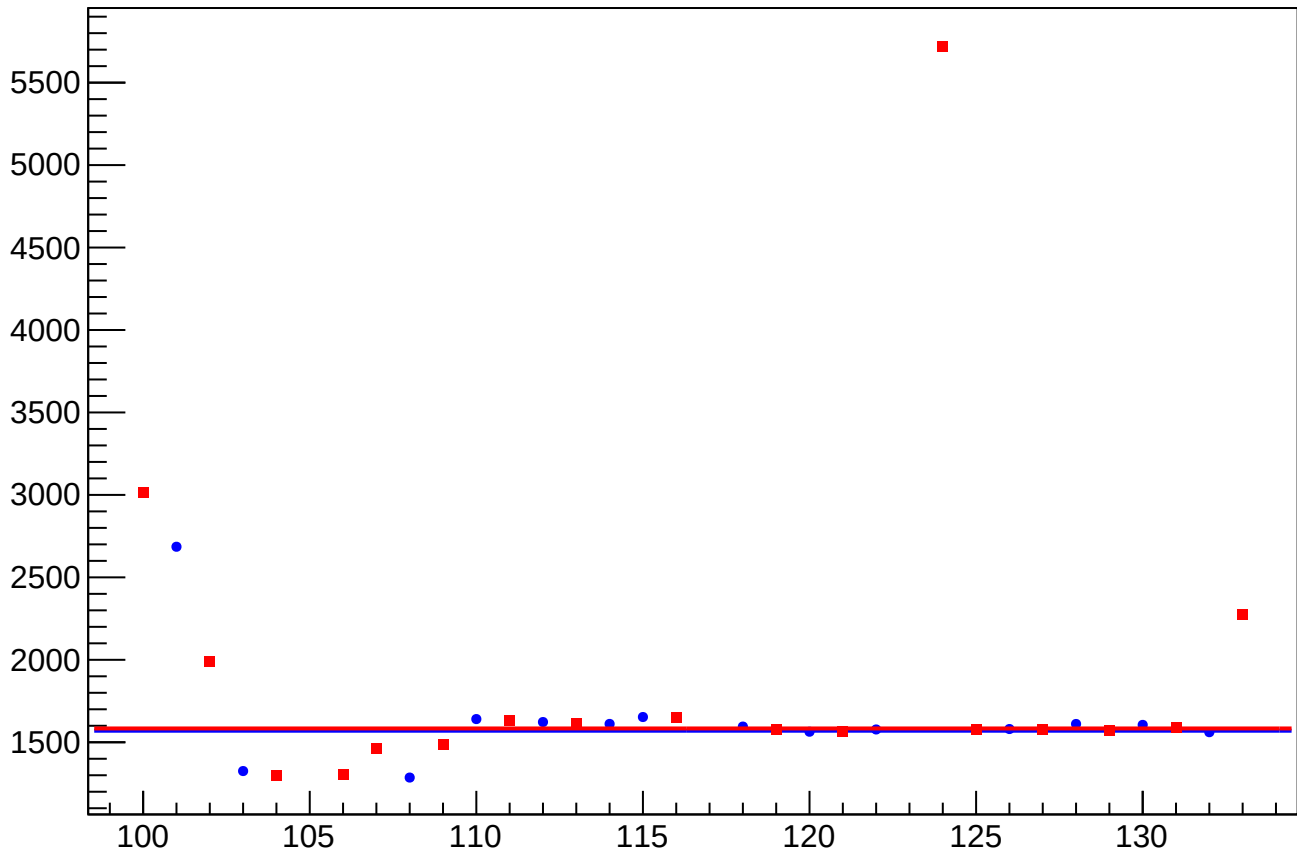
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 527.288+/-452.342  $\chi^2/\text{NDF}$ : 32.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_at2\_dd\_rms vs Slug



Right In: 1570.089+/-0.461  $\chi^2/\text{NDF}$ : 308628.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1583.715+/-0.444  $\chi^2/\text{NDF}$ : 399729.2/16

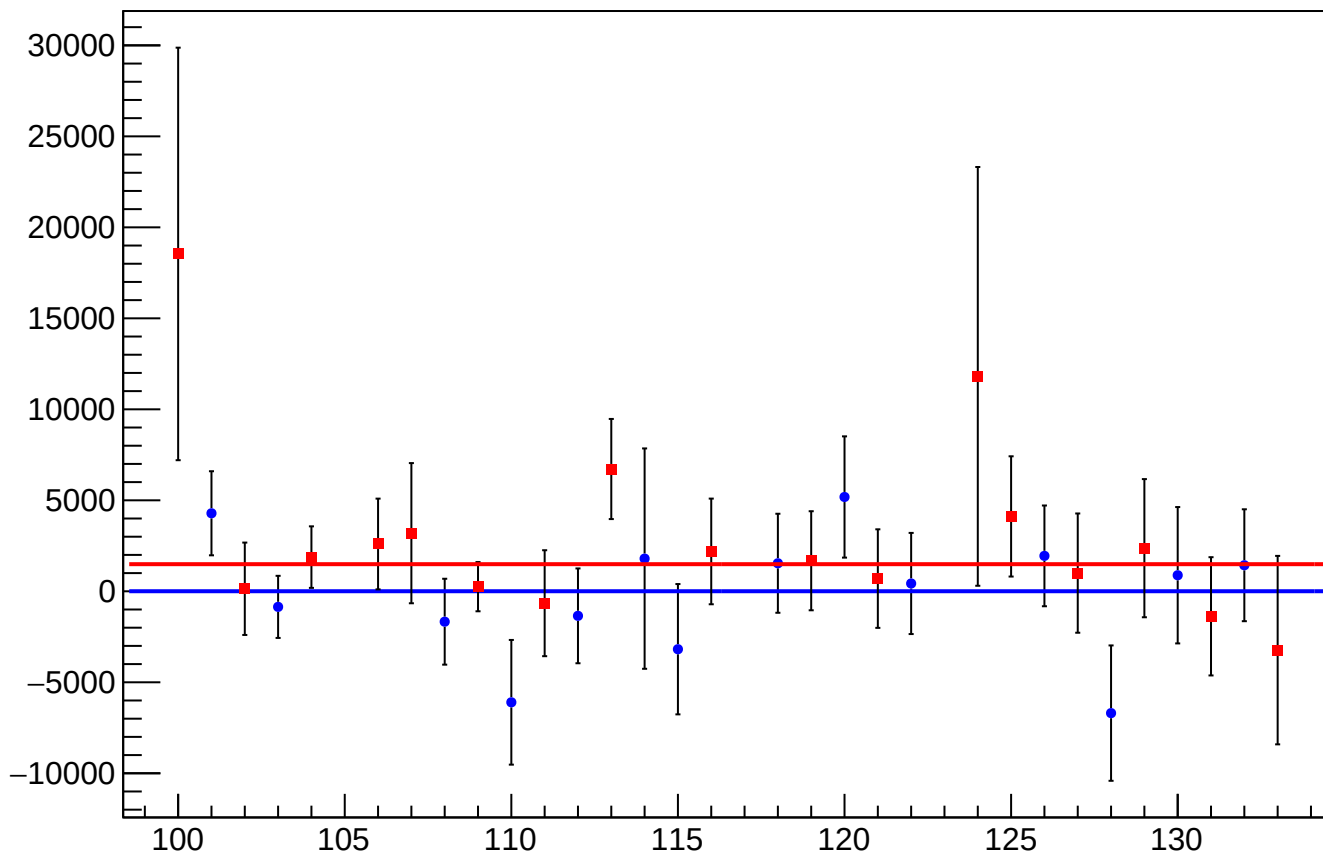
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1577.161+/-0.320  $\chi^2/\text{NDF}$ : 708810.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_cor\_correction\_mean vs Slug



Right In: 3.939+/-748.980  $\chi^2/\text{NDF}$ : 15.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1490.551+/-656.278  $\chi^2/\text{NDF}$ : 11.3/16

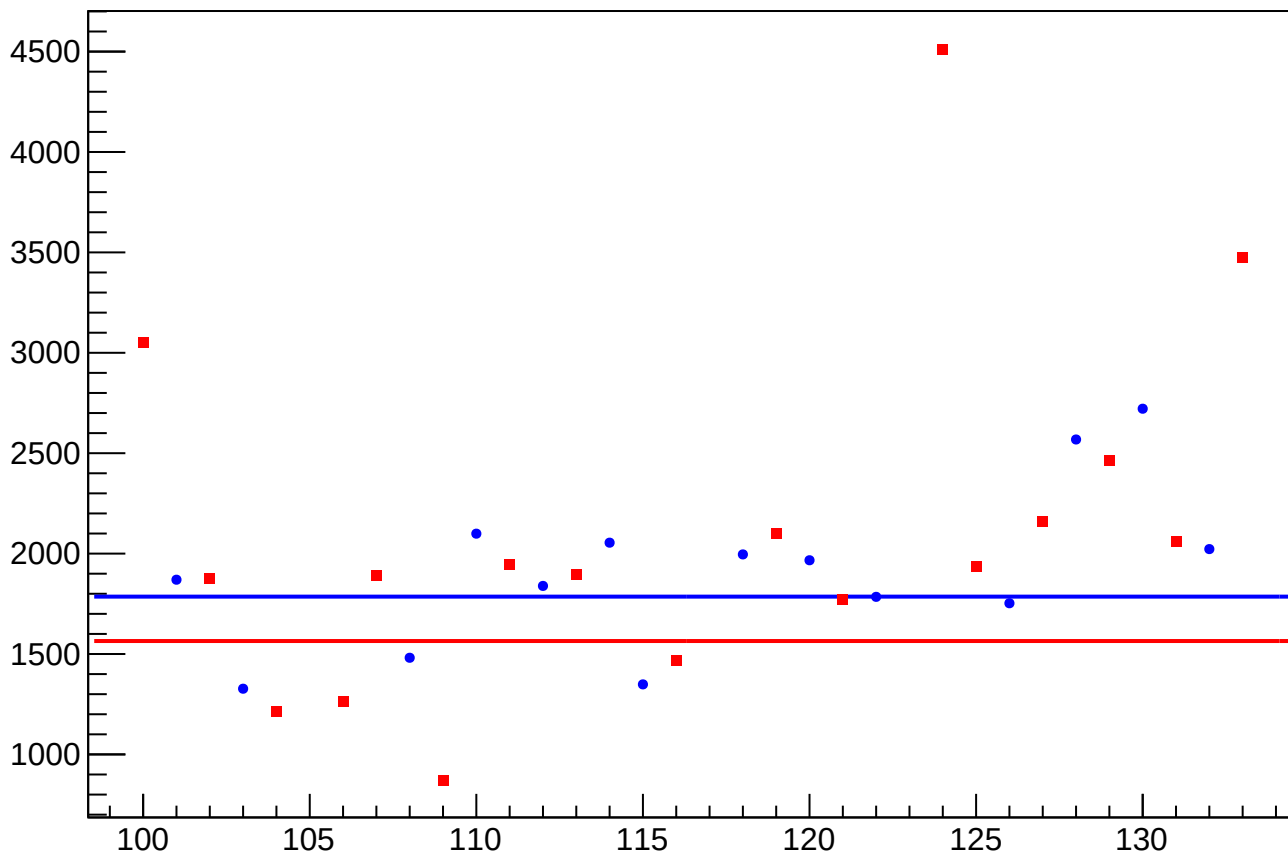
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 844.889+/-493.599  $\chi^2/\text{NDF}$ : 28.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_cor\_correction\_rms vs Slug



Right In: 1785.780+/-0.530  $\chi^2/\text{NDF}$ : 474978.5/13

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: 1564.663+/-0.464  $\chi^2/\text{NDF}$ : 1528108.6/16

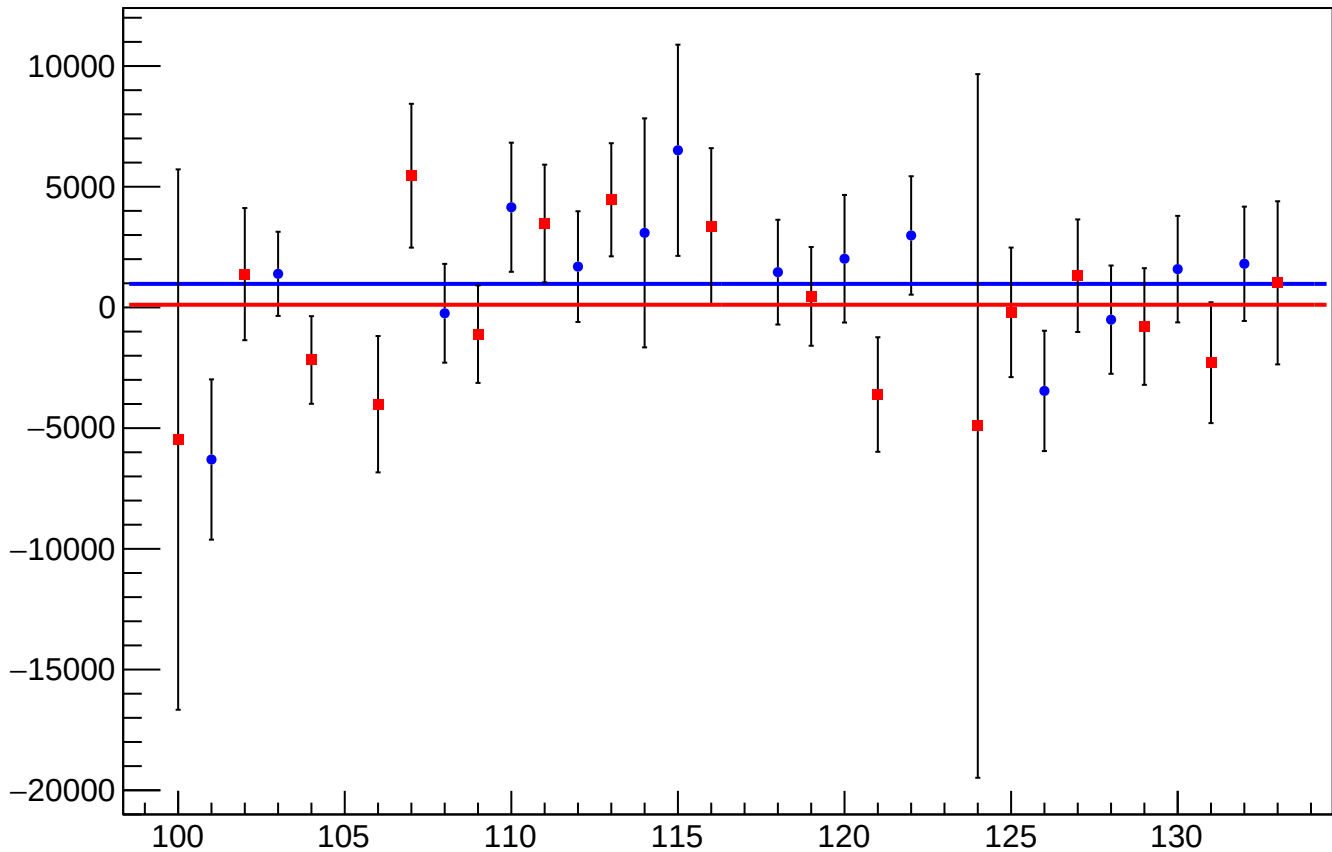
All: 1660.698+/-0.349  $\chi^2/\text{NDF}$ : 2101694.1/30

- 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\_at2\_dd\_mean vs Slug



Right In: 976.035 $\pm$ 652.221  $\chi^2$ /NDF: 13.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 111.397 $\pm$ 627.890  $\chi^2$ /NDF: 18.1/16

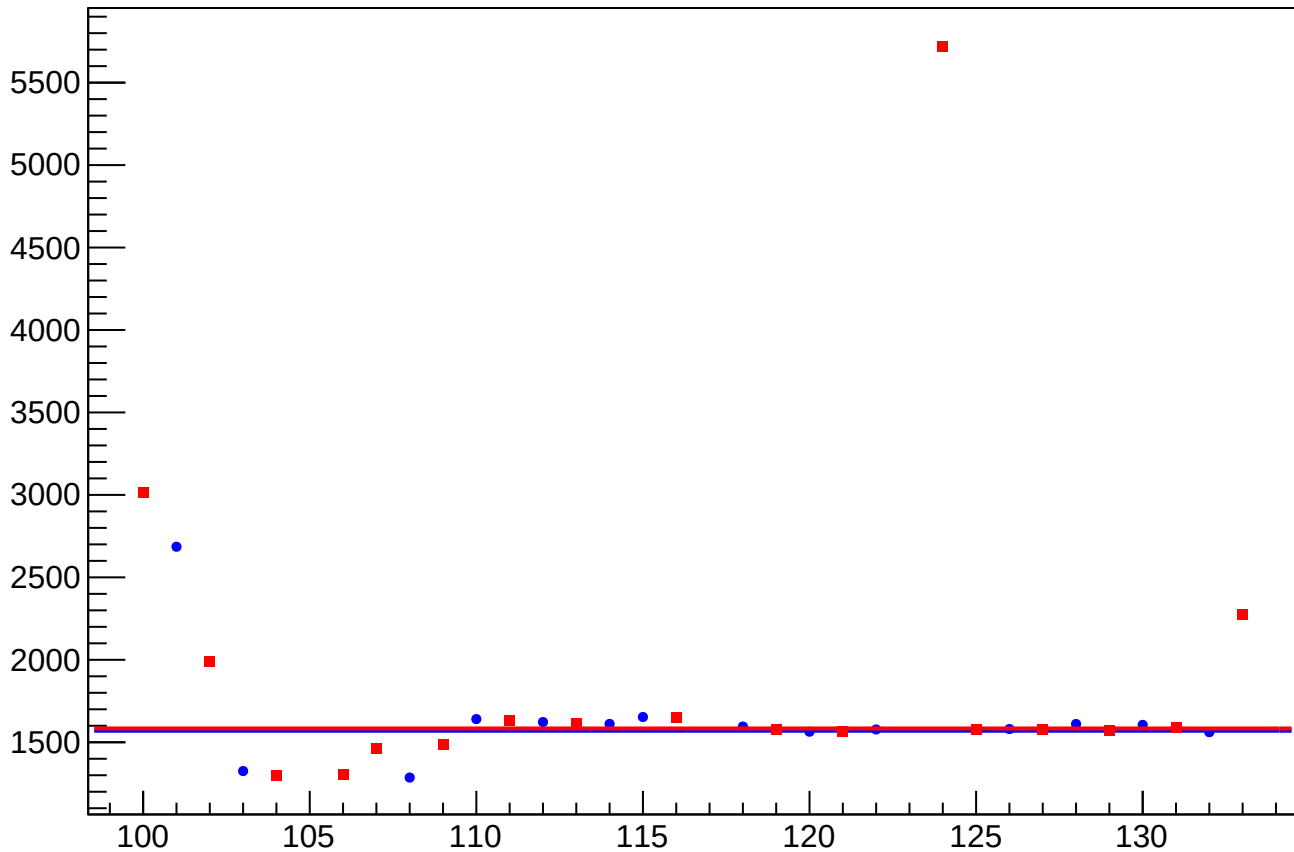
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 527.288 $\pm$ 452.342  $\chi^2$ /NDF: 32.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_at2\_dd\_rms vs Slug



Right In: 1570.089+/-0.461  $\chi^2/\text{NDF}$ : 308628.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1583.715+/-0.444  $\chi^2/\text{NDF}$ : 399729.2/16

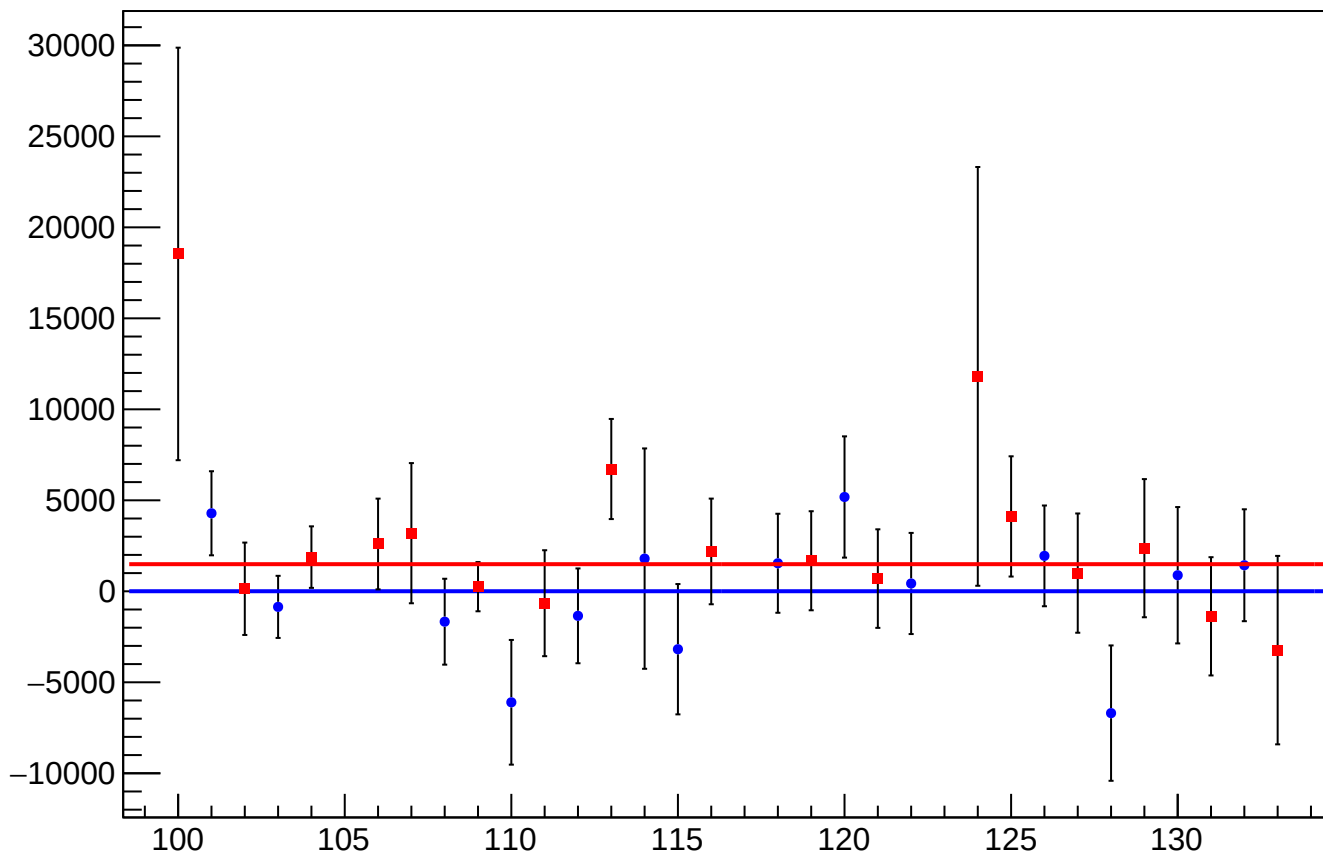
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1577.161+/-0.320  $\chi^2/\text{NDF}$ : 708810.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 3.939+/-748.980  $\chi^2/\text{NDF}$ : 15.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1490.551+/-656.278  $\chi^2/\text{NDF}$ : 11.3/16

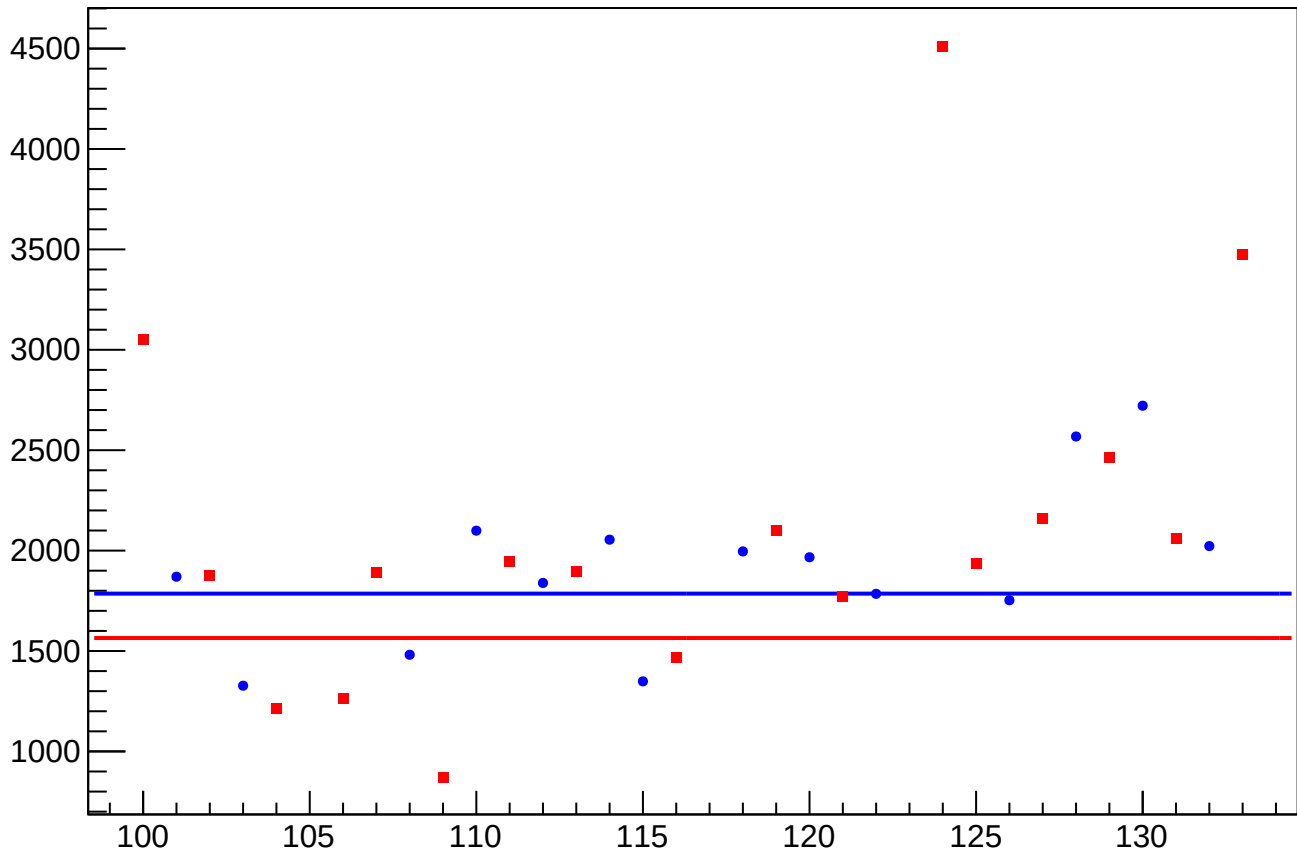
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 844.889+/-493.599  $\chi^2/\text{NDF}$ : 28.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1785.780+/-0.530  $\chi^2/\text{NDF}$ : 474978.5/13

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

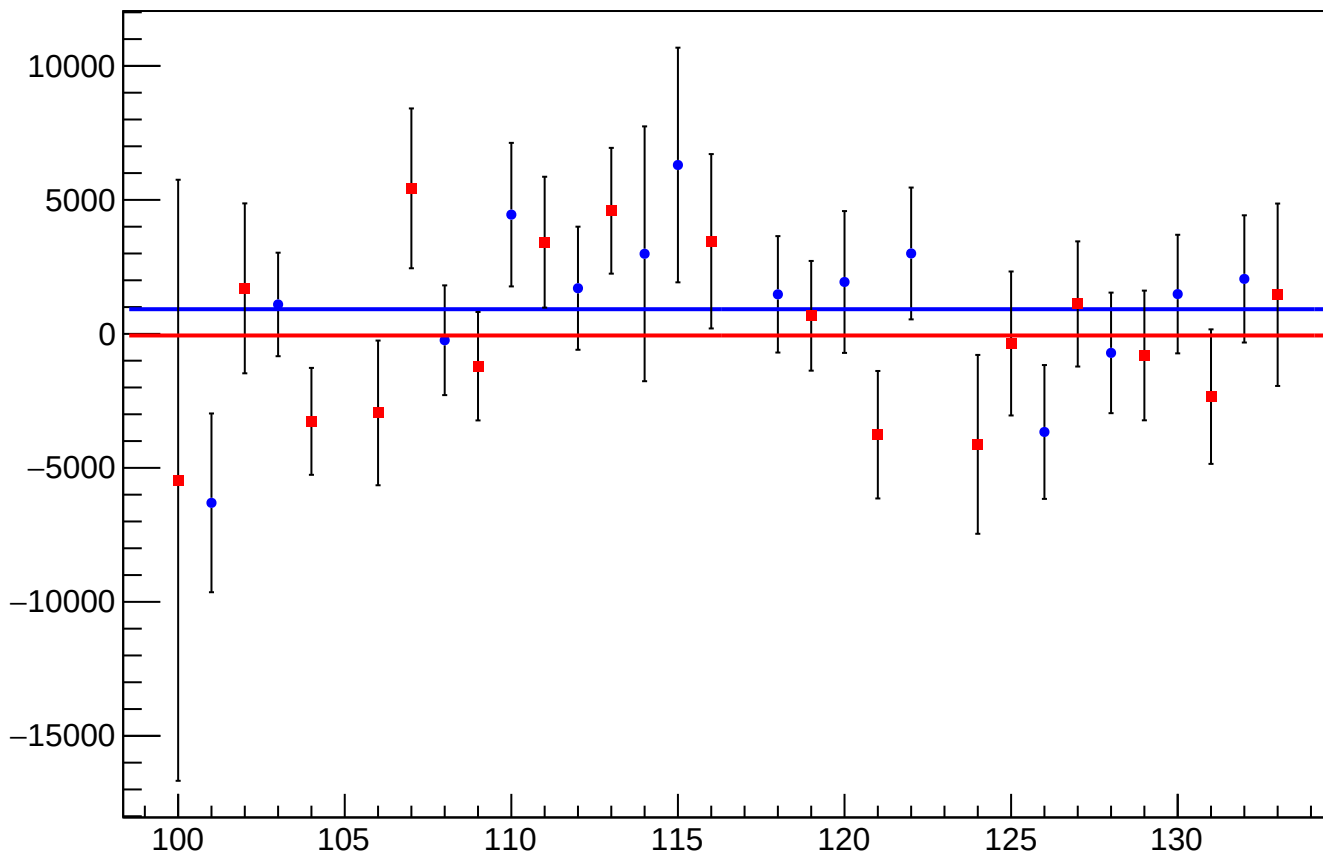
Right Out: 1564.663+/-0.464  $\chi^2/\text{NDF}$ : 1528108.6/16

All: 1660.698+/-0.349  $\chi^2/\text{NDF}$ : 2101694.1/30

- 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\_at2\_dd\_mean vs Slug



Right In: 920.858+/-662.039  $\chi^2/\text{NDF}$ : 13.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -59.480+/-627.538  $\chi^2/\text{NDF}$ : 20.5/16

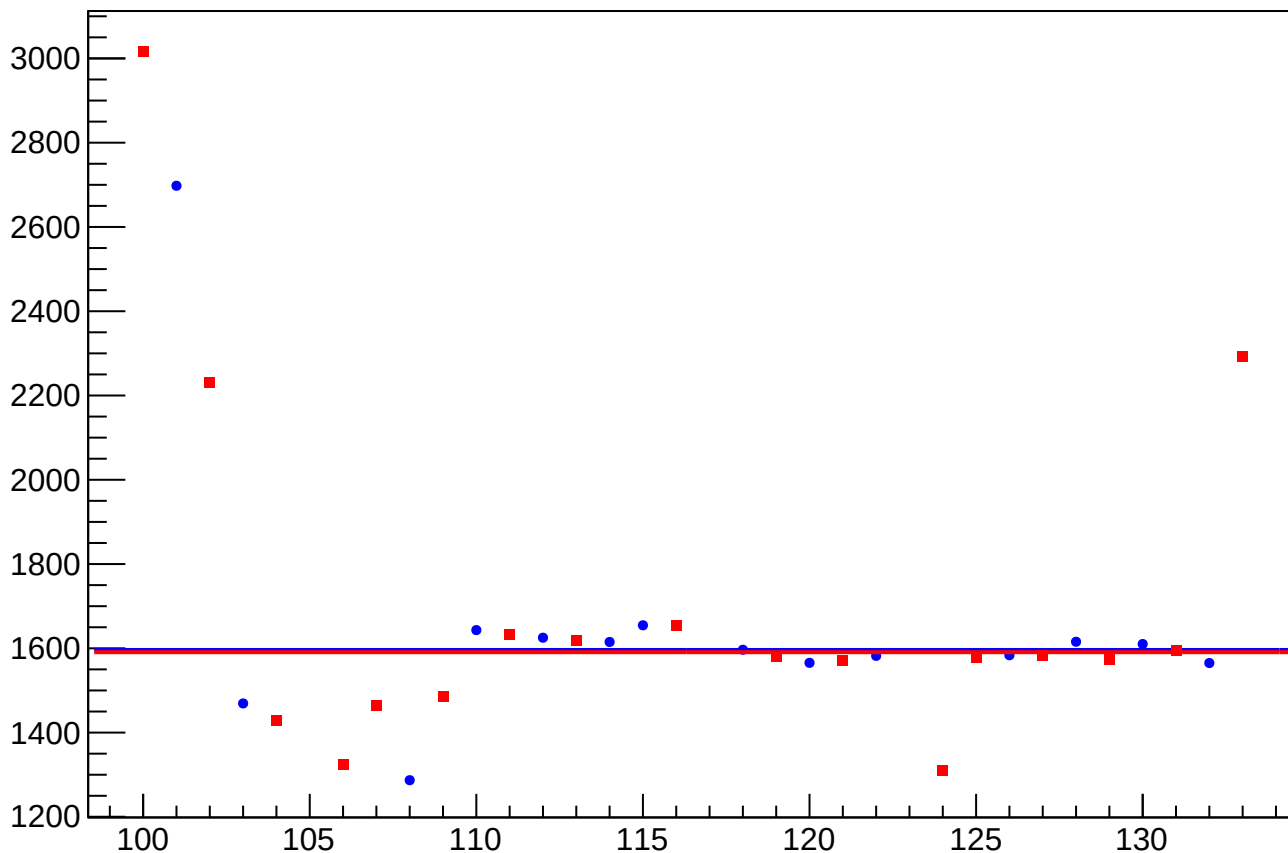
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 404.480+/-455.445  $\chi^2/\text{NDF}$ : 35.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_at2\_dd\_rms vs Slug



Right In: 1596.079 $\pm$ 0.468  $\chi^2$ /NDF: 274676.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1590.806 $\pm$ 0.444  $\chi^2$ /NDF: 255999.9/16

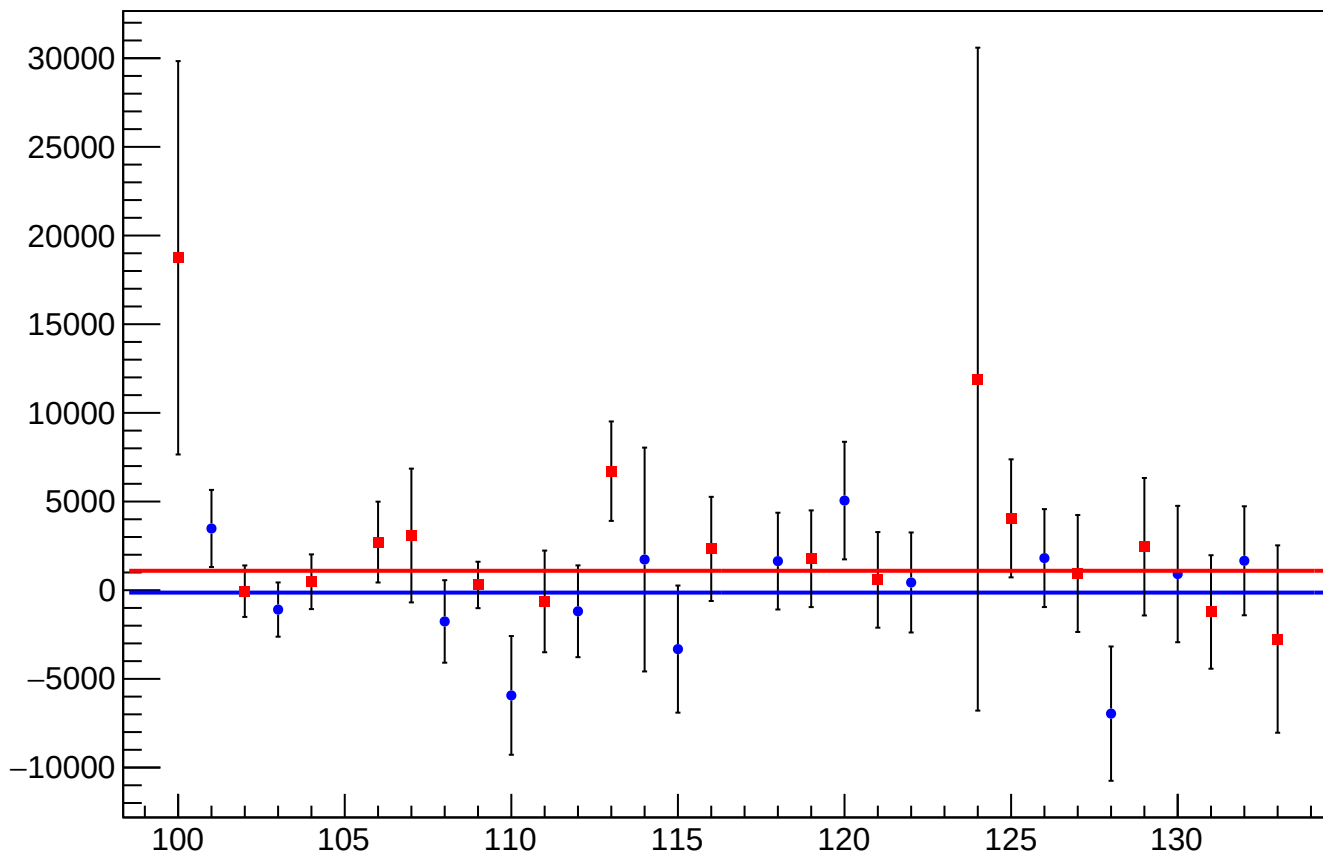
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1593.301 $\pm$ 0.322  $\chi^2$ /NDF: 530743.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_dit\_correction\_mean vs Slug



Right In:  $-134.321 \pm 727.334$   $\chi^2/\text{NDF}$ : 14.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1095.516 \pm 600.672$   $\chi^2/\text{NDF}$ : 11.4/16

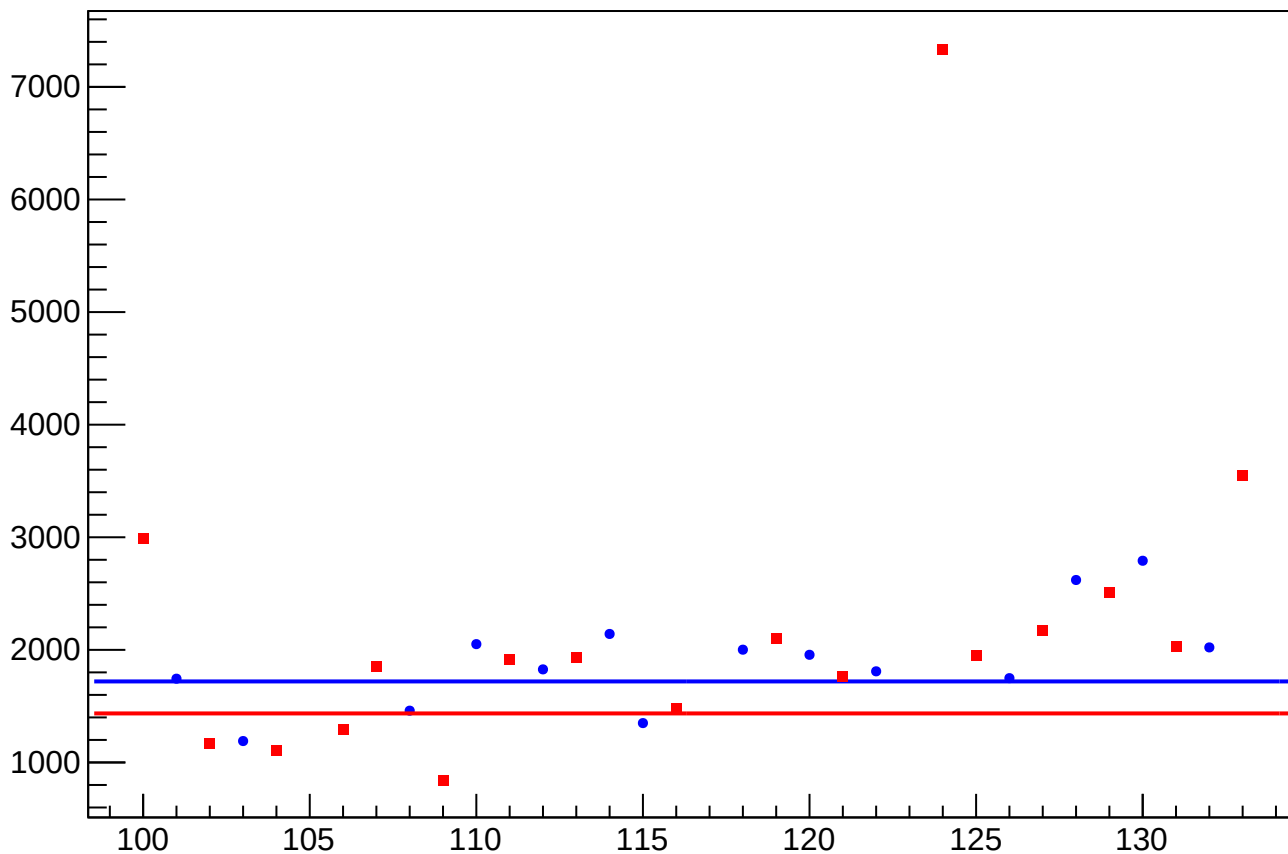
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $596.839 \pm 463.148$   $\chi^2/\text{NDF}$ : 27.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_dit\_correction\_rms vs Slug



Right In: 1719.640+/-0.514  $\chi^2/\text{NDF}$ : 639680.8/13

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: 1435.438+/-0.425  $\chi^2/\text{NDF}$ : 1802583.9/16

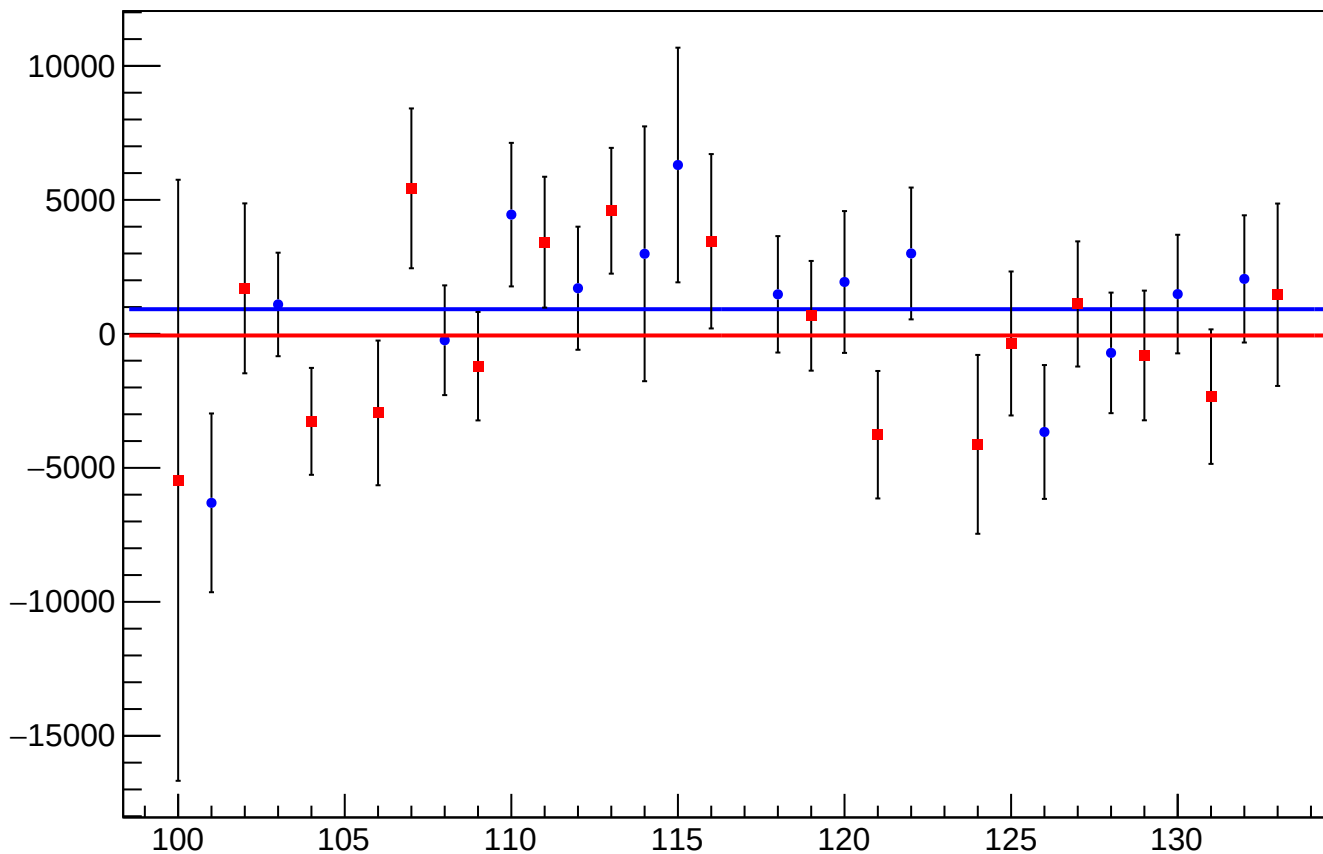
All: 1550.677+/-0.327  $\chi^2/\text{NDF}$ : 2623808.3/30

- 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\_at2\_dd\_mean vs Slug



Right In: 920.851 $\pm$ 662.039  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -59.484 $\pm$ 627.538  $\chi^2$ /NDF: 20.5/16

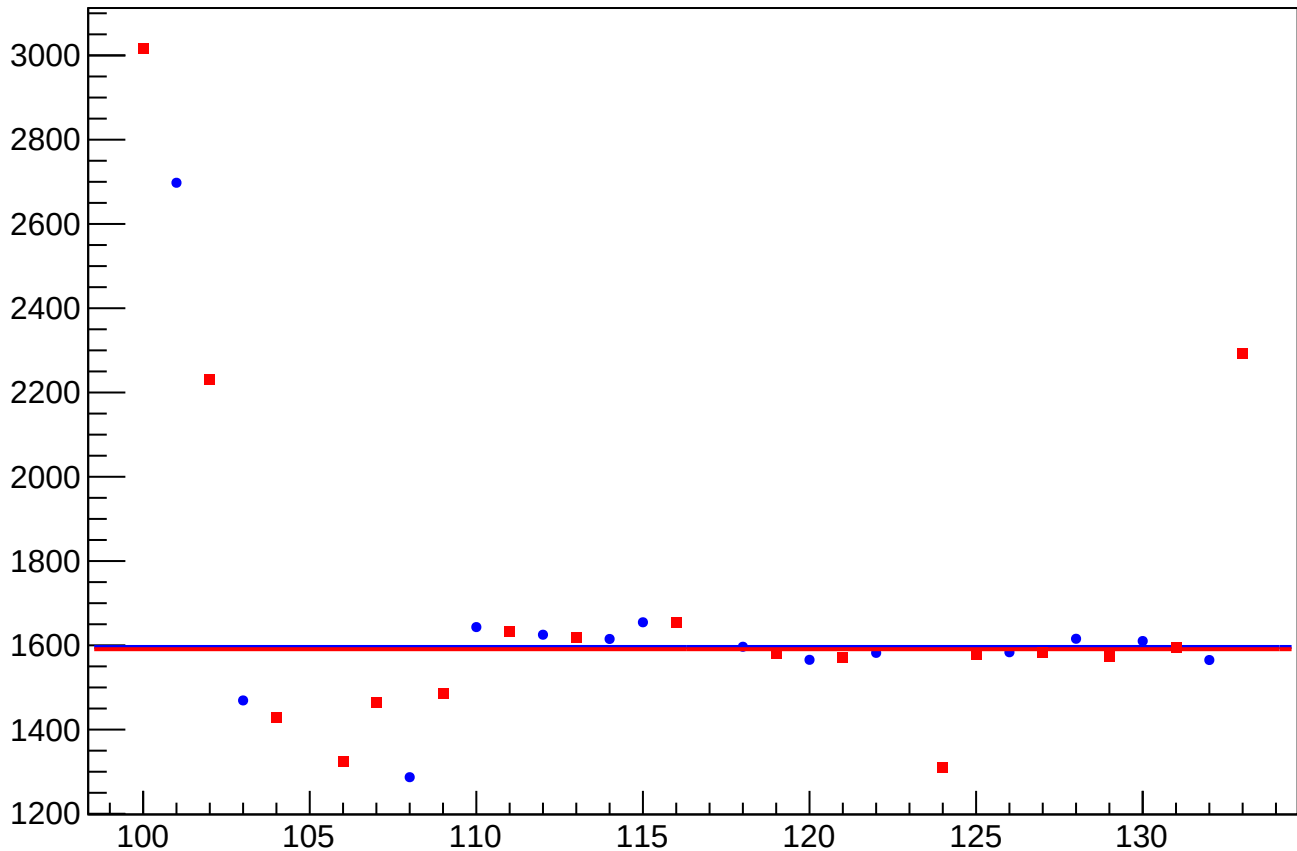
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 404.475 $\pm$ 455.445  $\chi^2$ /NDF: 35.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_at2\_dd\_rms vs Slug



Right In: 1596.078+/-0.468  $\chi^2/\text{NDF}$ : 274676.6/13

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

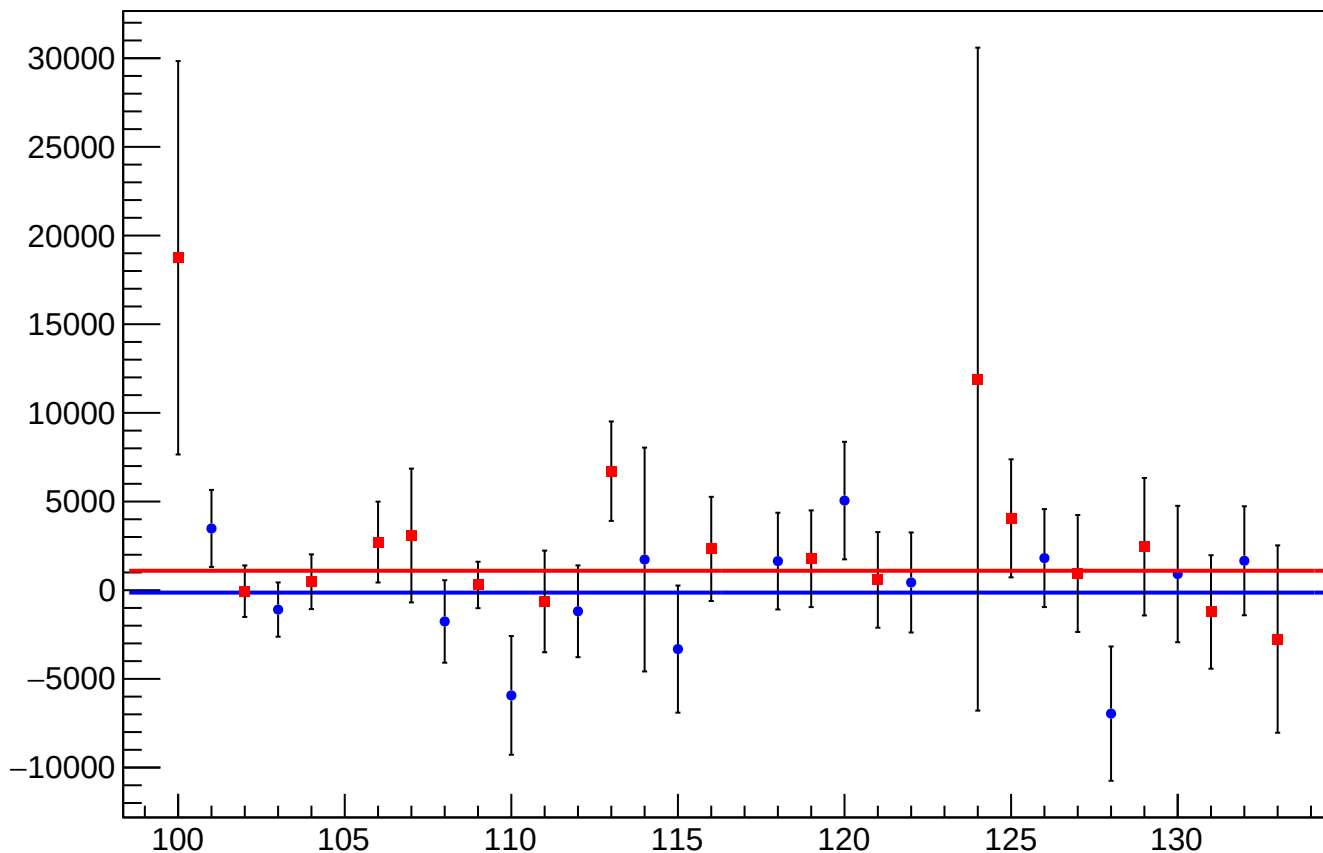
Right Out: 1590.806+/-0.444  $\chi^2/\text{NDF}$ : 256000.1/16

All: 1593.301+/-0.322  $\chi^2/\text{NDF}$ : 530743.5/30

- 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\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -134.320+/-727.332  $\chi^2/\text{NDF}$ : 14.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1095.518+/-600.673  $\chi^2/\text{NDF}$ : 11.4/16

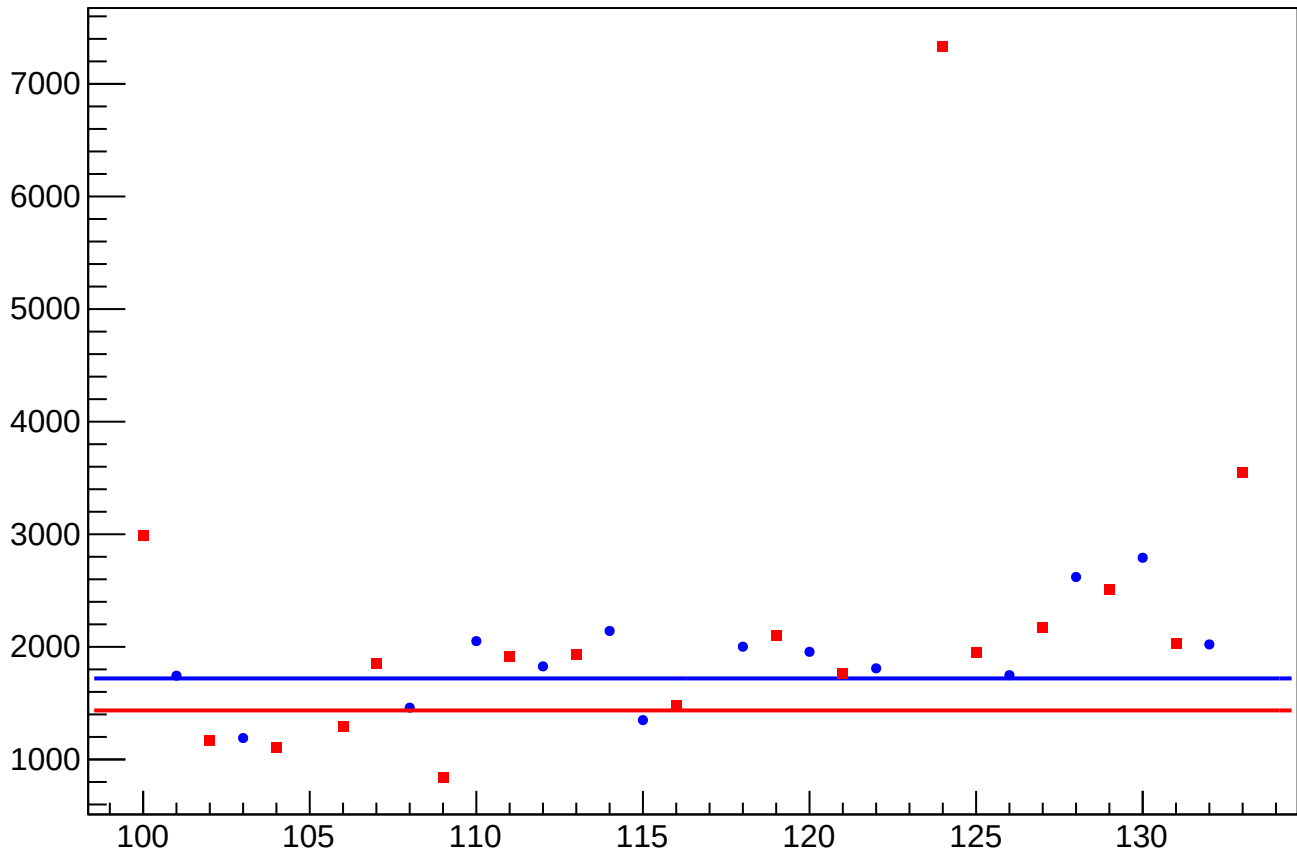
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 596.838+/-463.148  $\chi^2/\text{NDF}$ : 27.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1719.637+/-0.514  $\chi^2/\text{NDF}$ : 639671.2/13

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

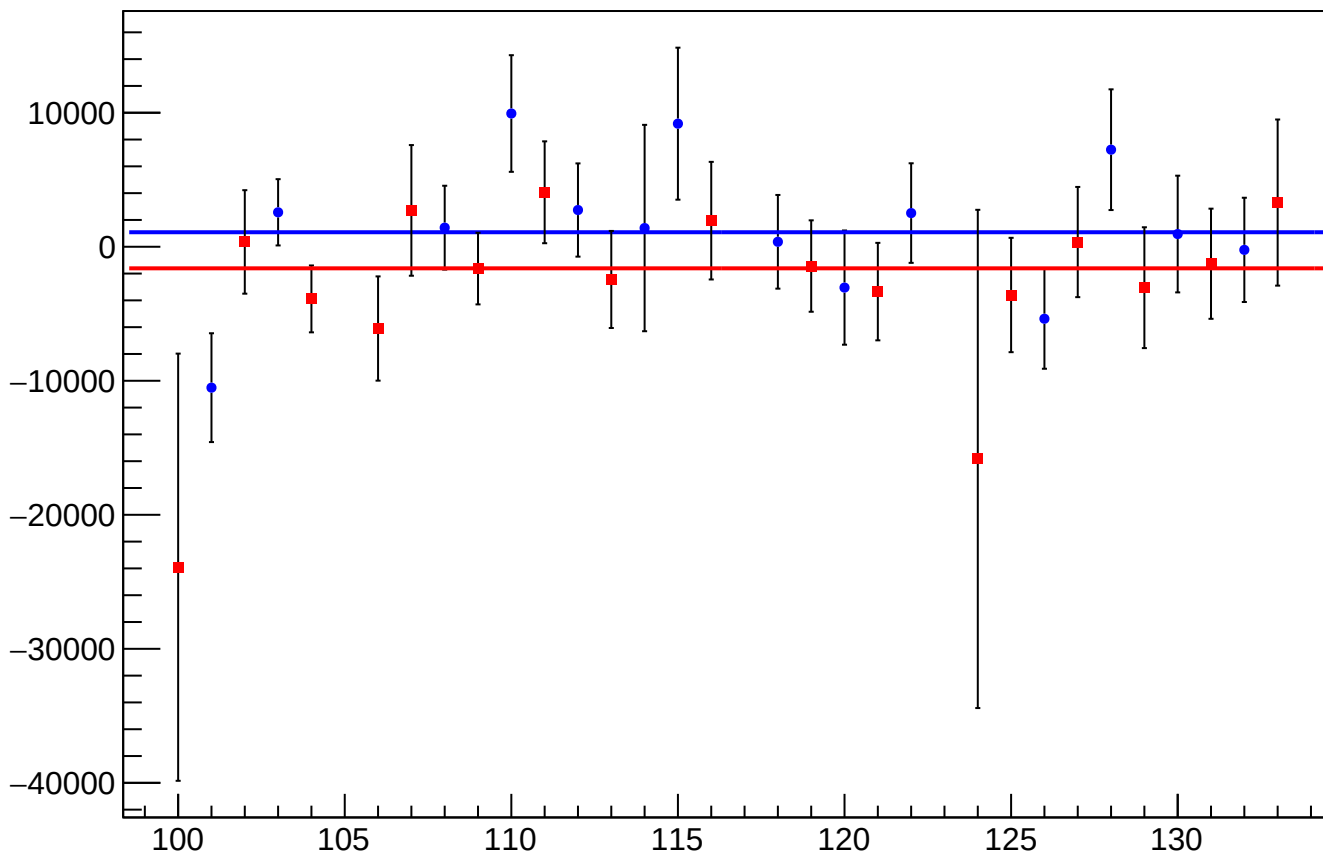
Right Out: 1435.443+/-0.425  $\chi^2/\text{NDF}$ : 1802549.3/16

All: 1550.679+/-0.327  $\chi^2/\text{NDF}$ : 2623753.4/30

- 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\_dd\_mean vs Slug



Right In: 1083.351+/-1021.044  $\chi^2/\text{NDF}$ : 21.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1609.551+/-957.670  $\chi^2/\text{NDF}$ : 10.1/16

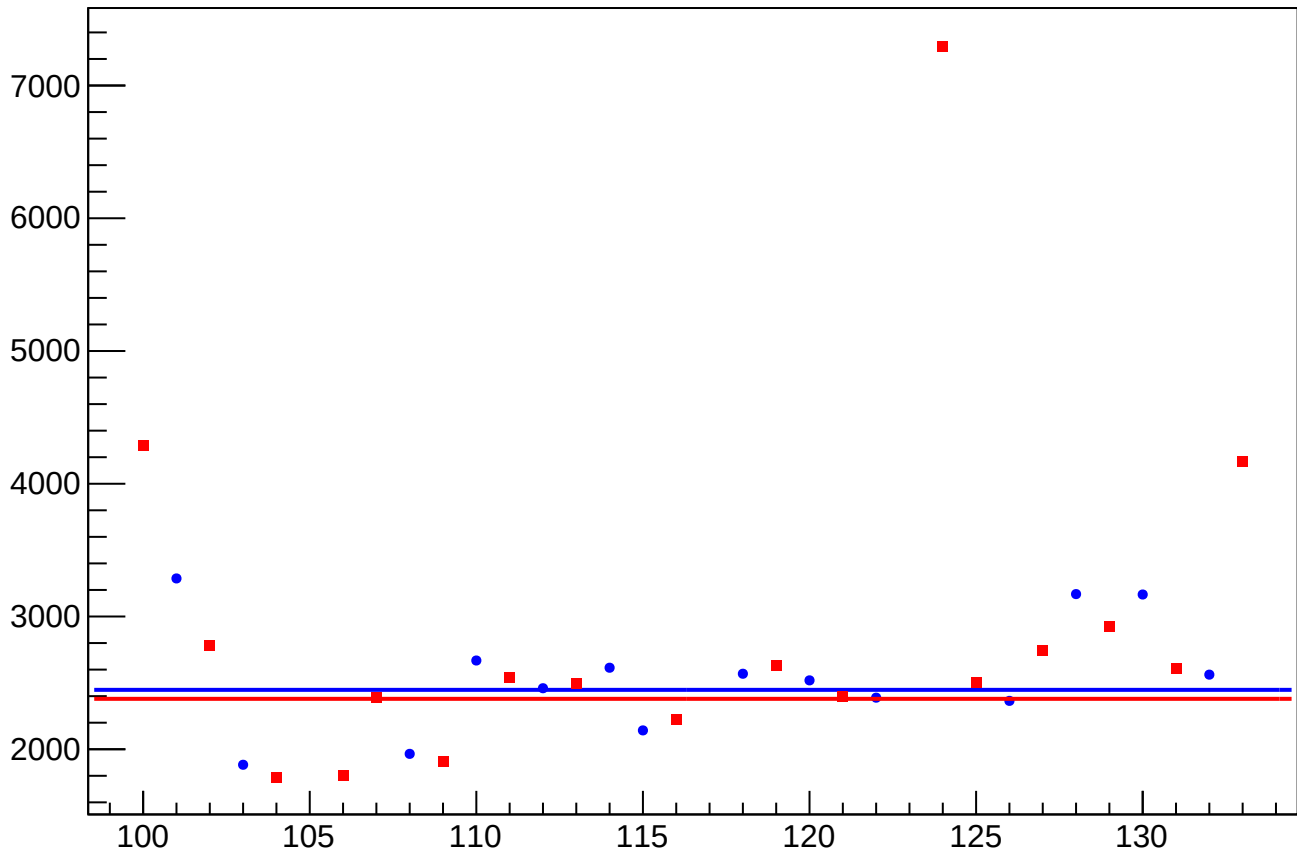
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -349.259+/-698.505  $\chi^2/\text{NDF}$ : 34.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_rms vs Slug



Right In: 2447.475+/-0.722  $\chi^2/\text{NDF}$ : 361005.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2379.757+/-0.677  $\chi^2/\text{NDF}$ : 648370.4/16

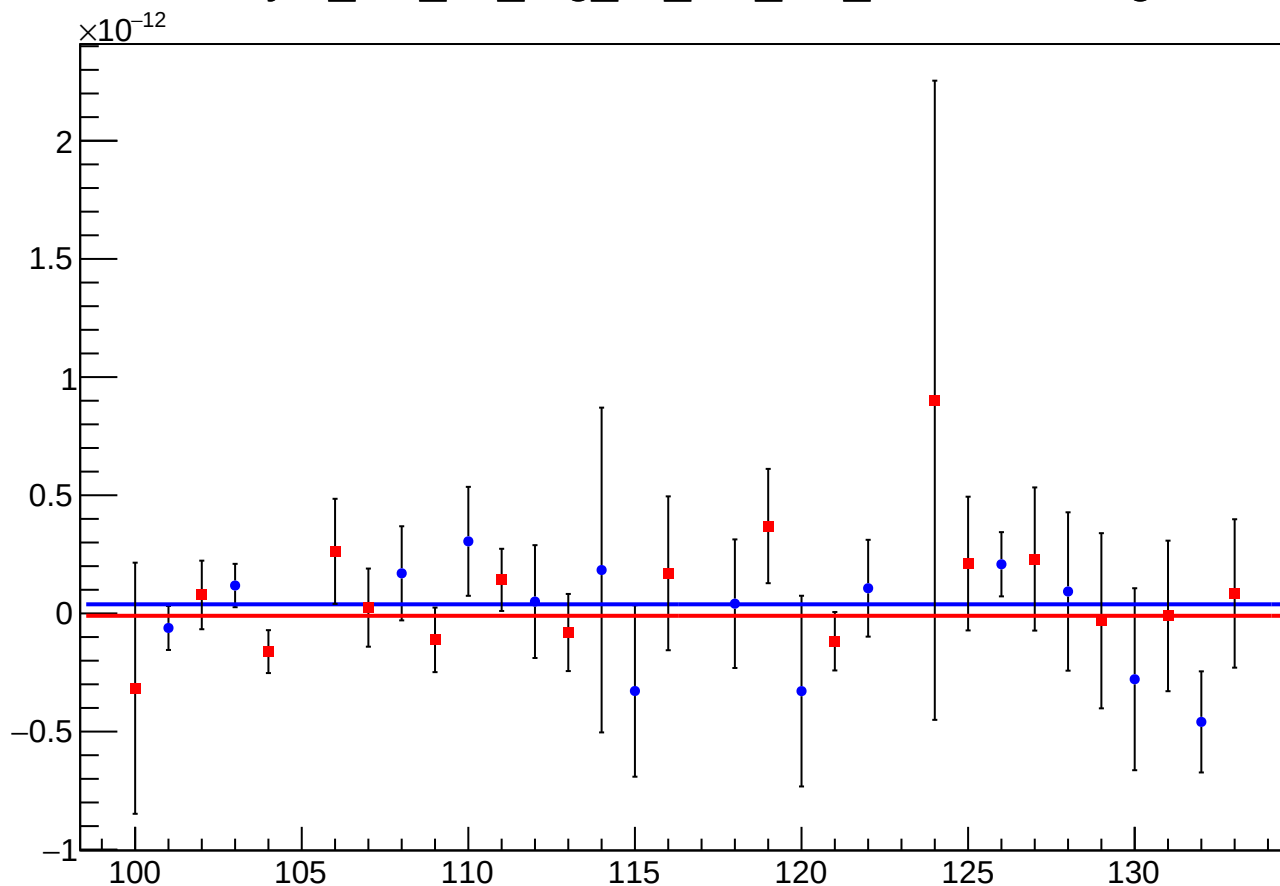
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2411.449+/-0.494  $\chi^2/\text{NDF}$ : 1014056.1/30

- sign 0.000+/-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: 13.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.4/16

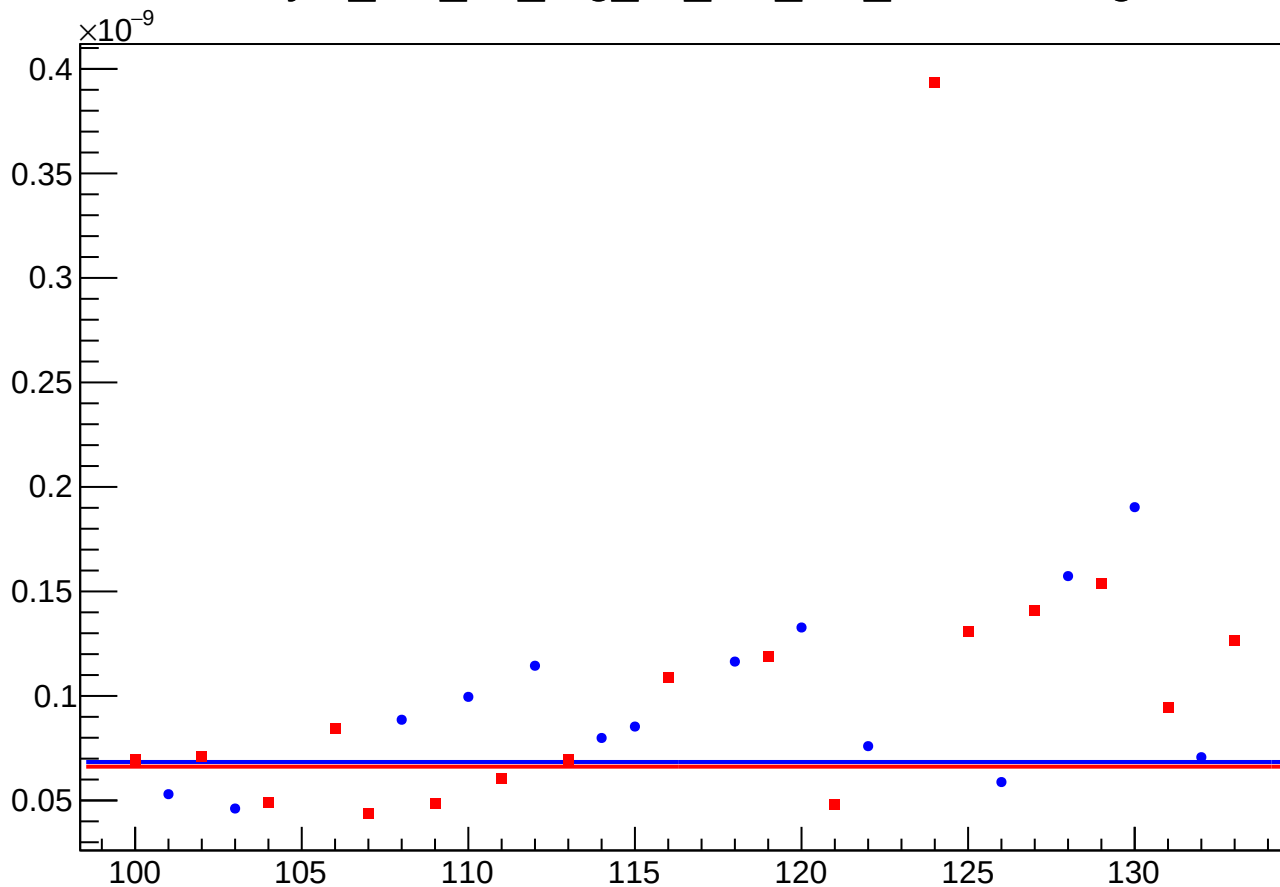
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 26.4/30

- 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  $\chi^2/\text{NDF}$ : 776795.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 878692.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

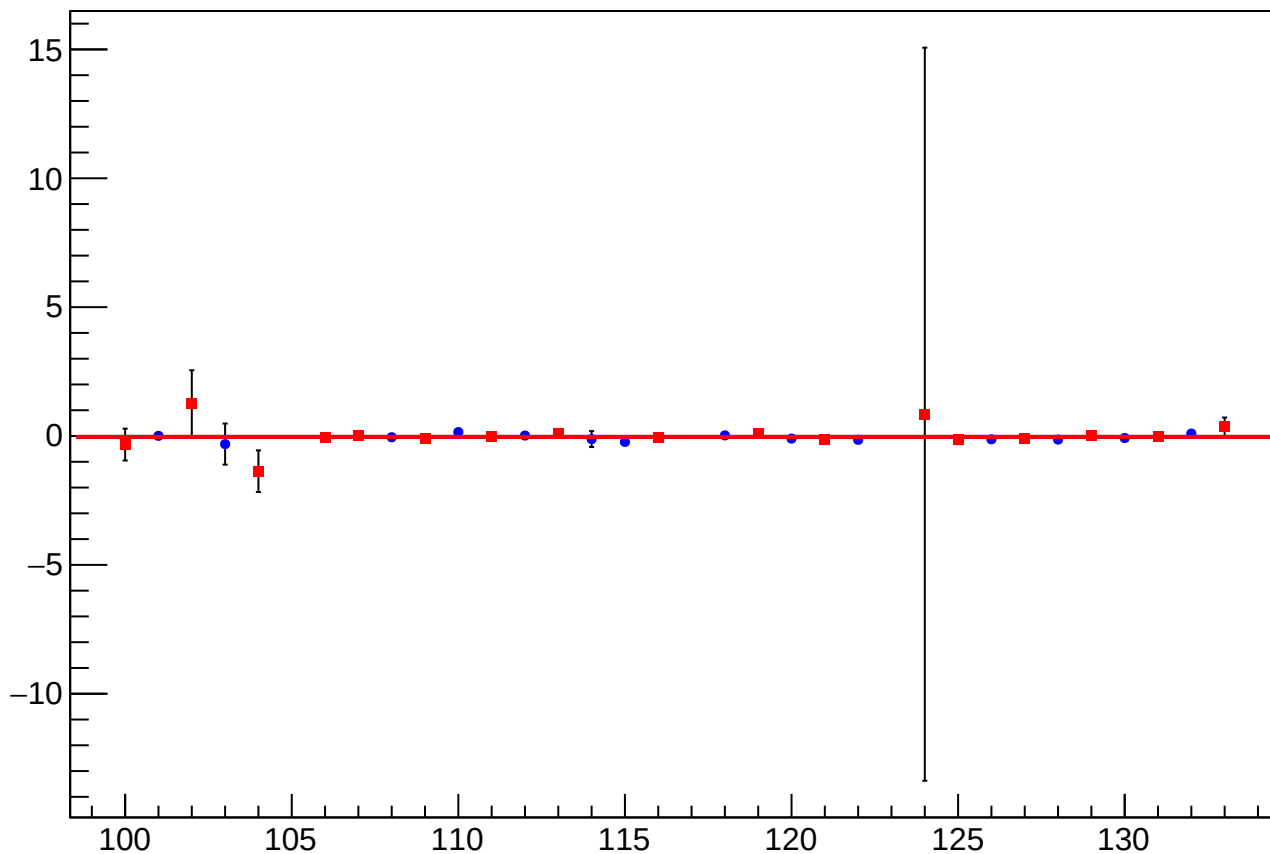
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1657873.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_at2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.035 \pm 0.033$   $\chi^2/\text{NDF}$ : 7.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.033 \pm 0.029$   $\chi^2/\text{NDF}$ : 11.8/16

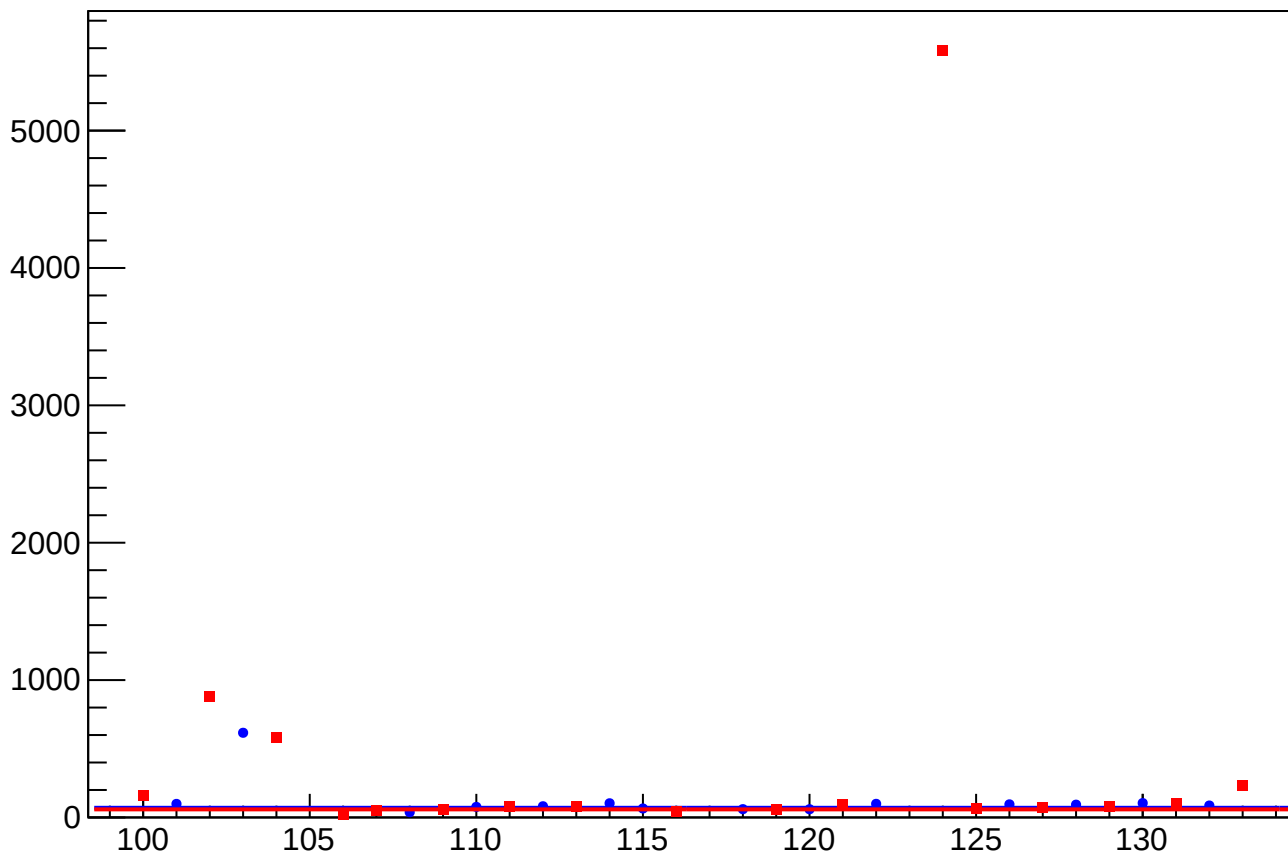
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.034 \pm 0.022$   $\chi^2/\text{NDF}$ : 18.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 70.261+/-0.023  $\chi^2/\text{NDF}$ : 1904901.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 58.870+/-0.020  $\chi^2/\text{NDF}$ : 3608314.8/16

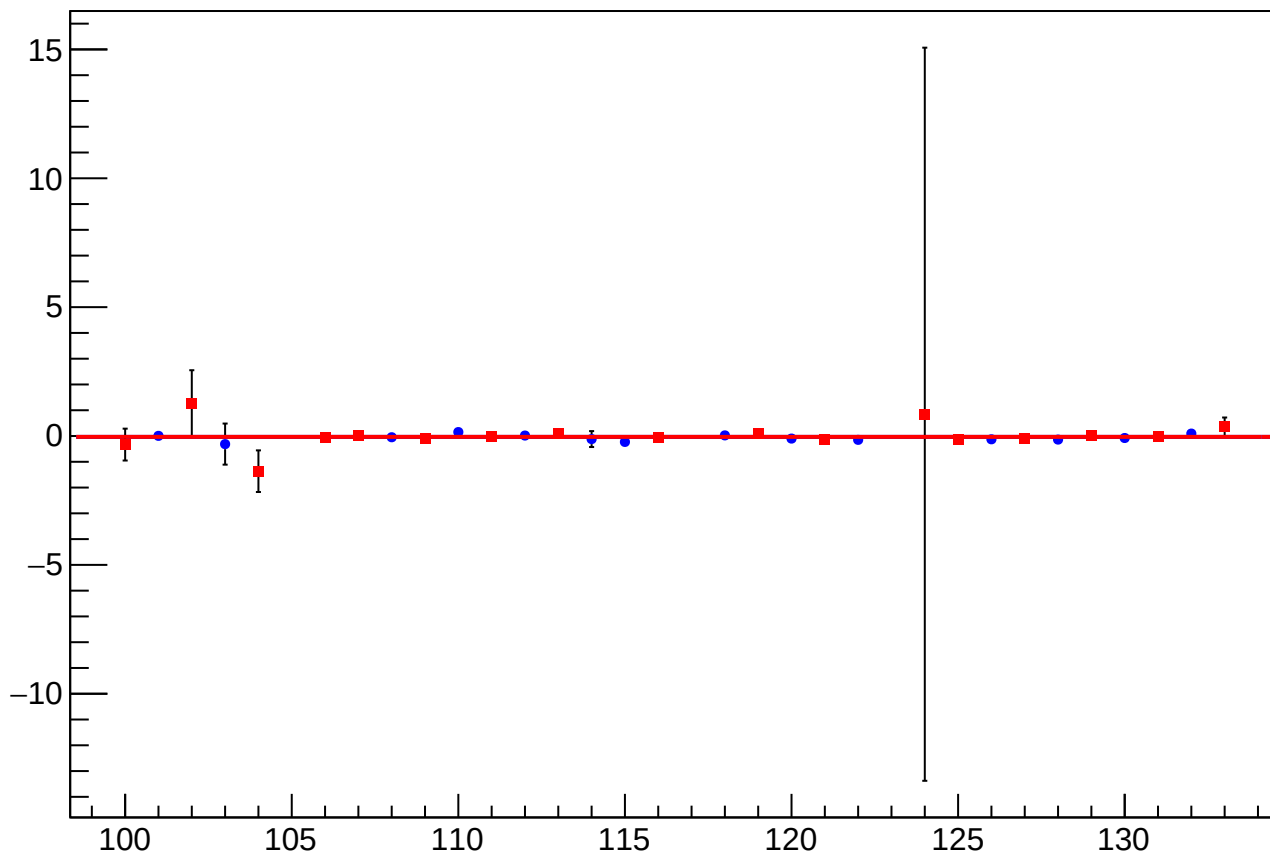
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 63.845+/-0.015  $\chi^2/\text{NDF}$ : 5649131.3/30

- 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: -0.035 $\pm$ 0.033  $\chi^2$ /NDF: 7.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.033 $\pm$ 0.029  $\chi^2$ /NDF: 11.8/16

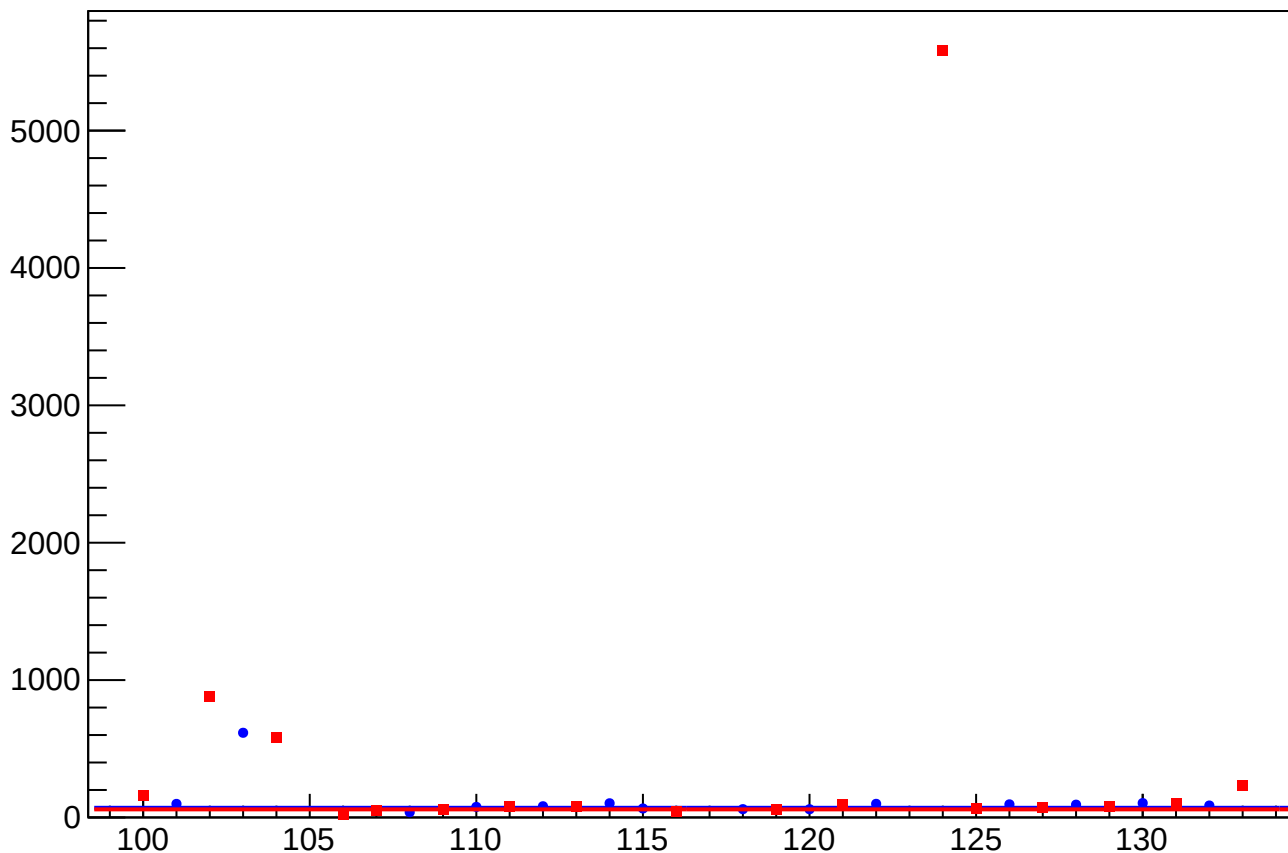
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.034 $\pm$ 0.022  $\chi^2$ /NDF: 18.9/30

- 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: 70.261+/-0.023  $\chi^2/\text{NDF}$ : 1904901.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 58.870+/-0.020  $\chi^2/\text{NDF}$ : 3608314.8/16

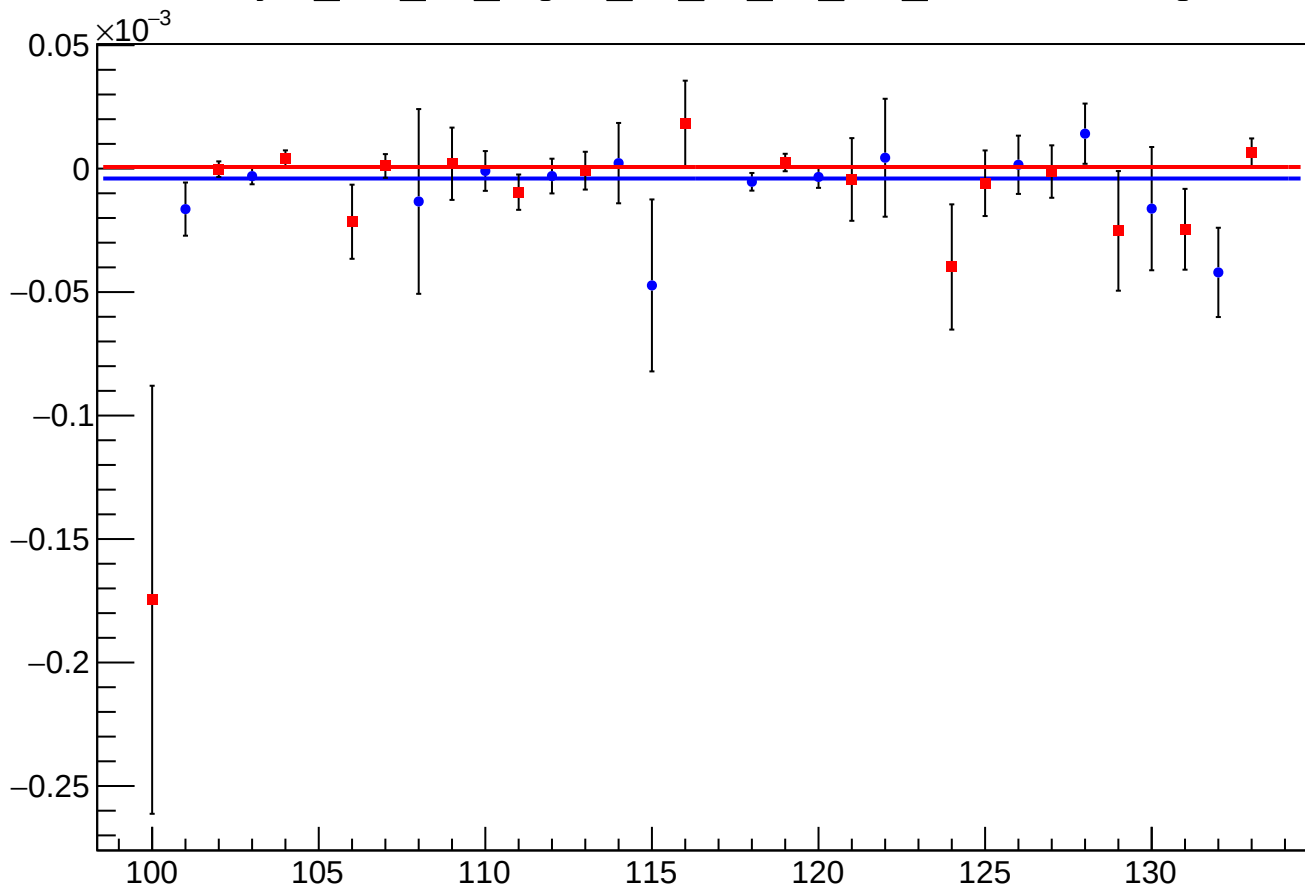
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 63.845+/-0.015  $\chi^2/\text{NDF}$ : 5649131.3/30

- 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+/-0.000  $\chi^2$ /NDF: 10.7/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 18.2/16

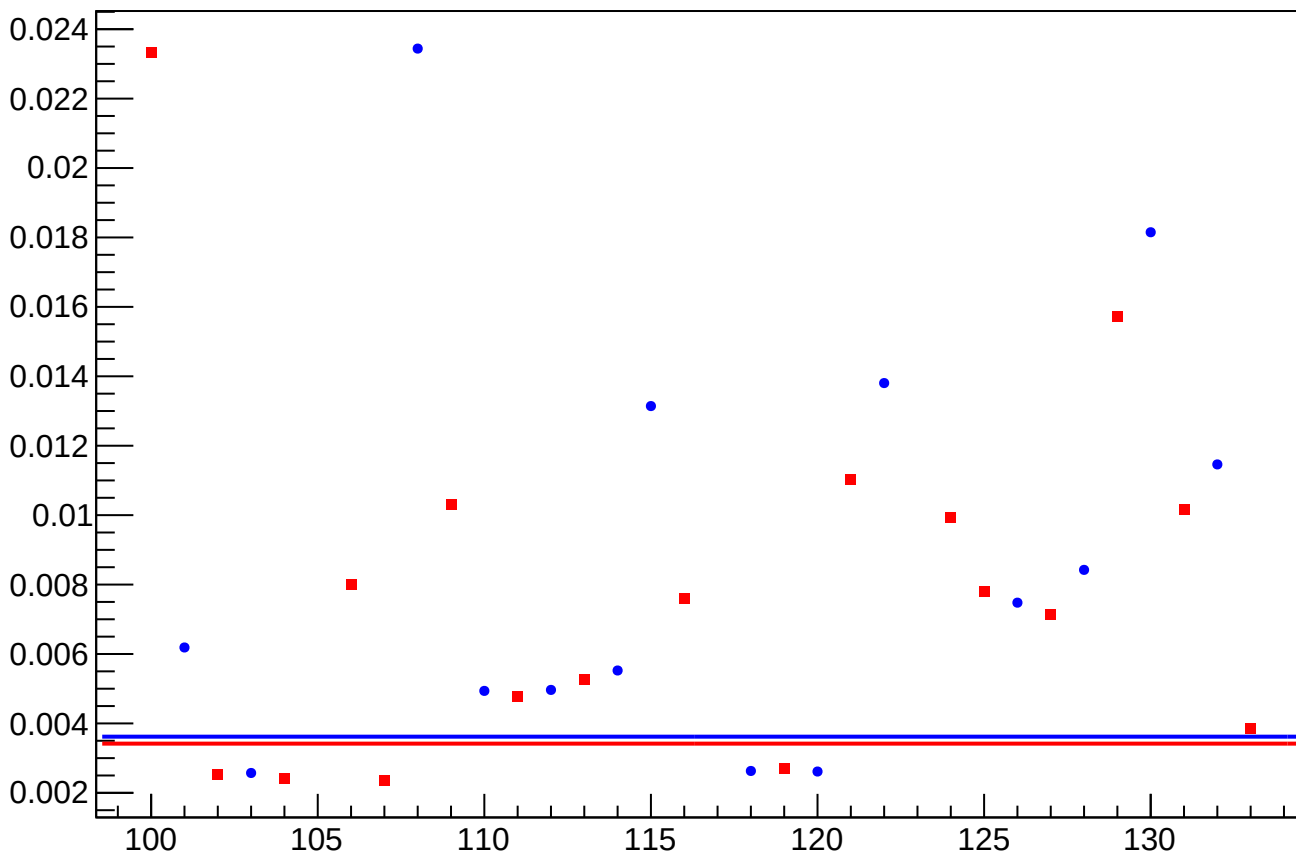
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 32.7/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 3378946.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 3434840.1/16

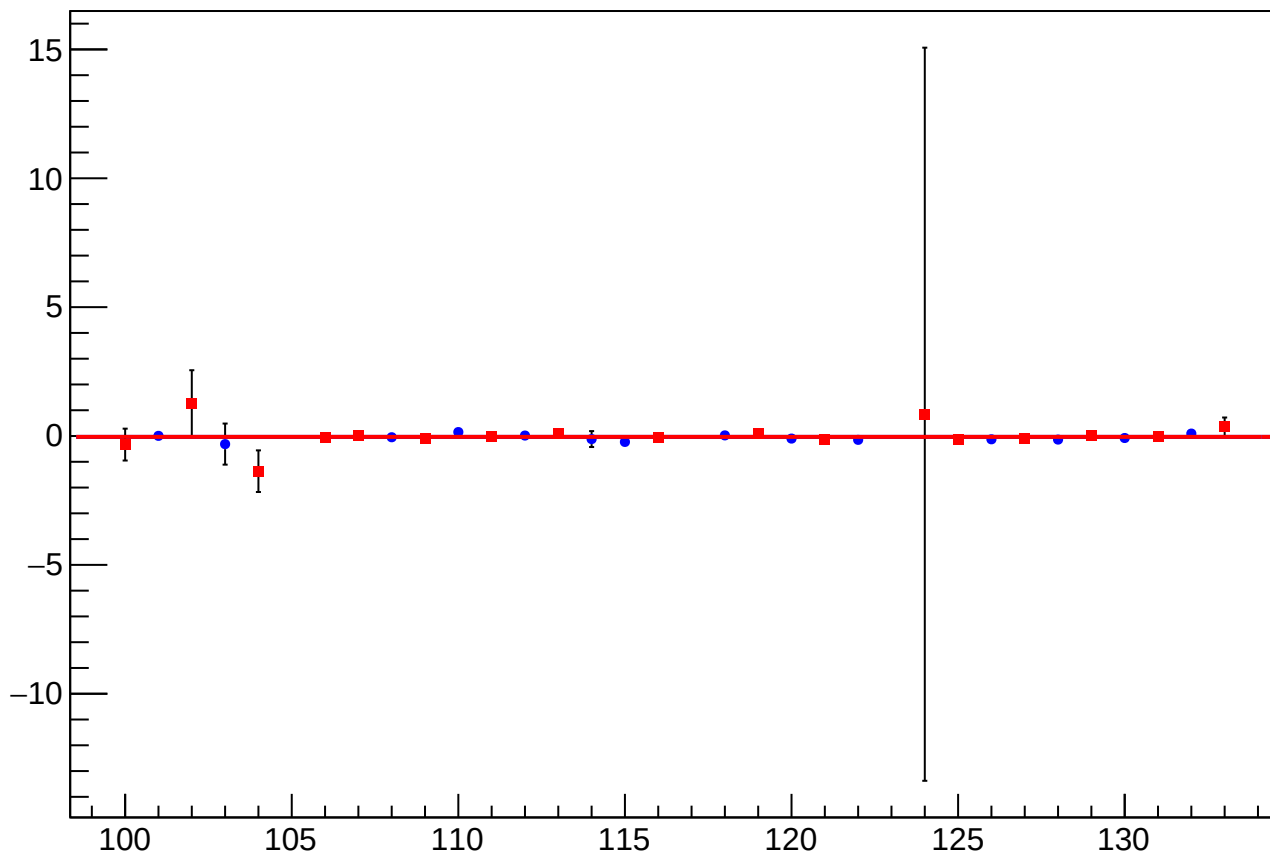
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 6827631.2/30

- 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:  $-0.035 \pm 0.033$   $\chi^2/\text{NDF}$ : 7.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.033 \pm 0.029$   $\chi^2/\text{NDF}$ : 11.8/16

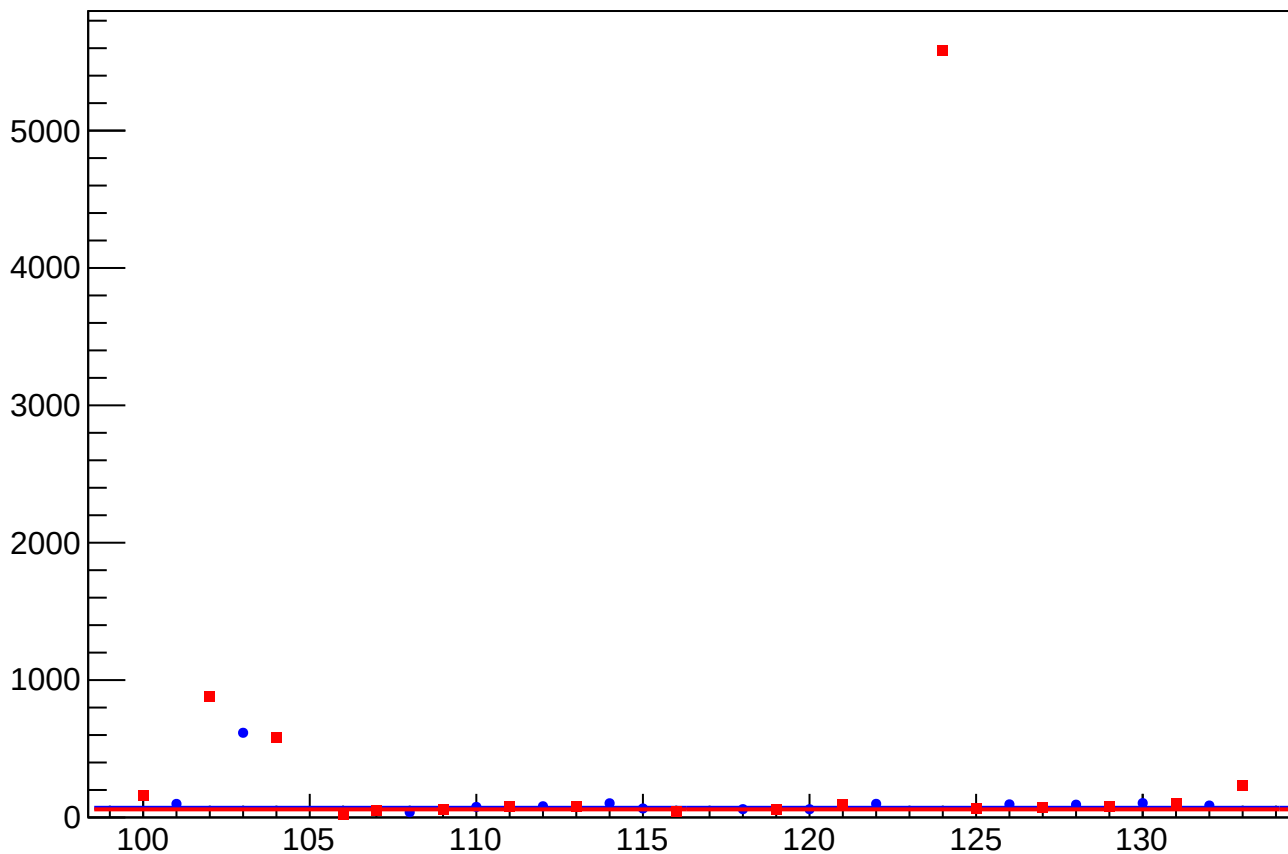
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.034 \pm 0.022$   $\chi^2/\text{NDF}$ : 18.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 70.271+/-0.023  $\chi^2/\text{NDF}$ : 1903946.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 58.863+/-0.020  $\chi^2/\text{NDF}$ : 3608898.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

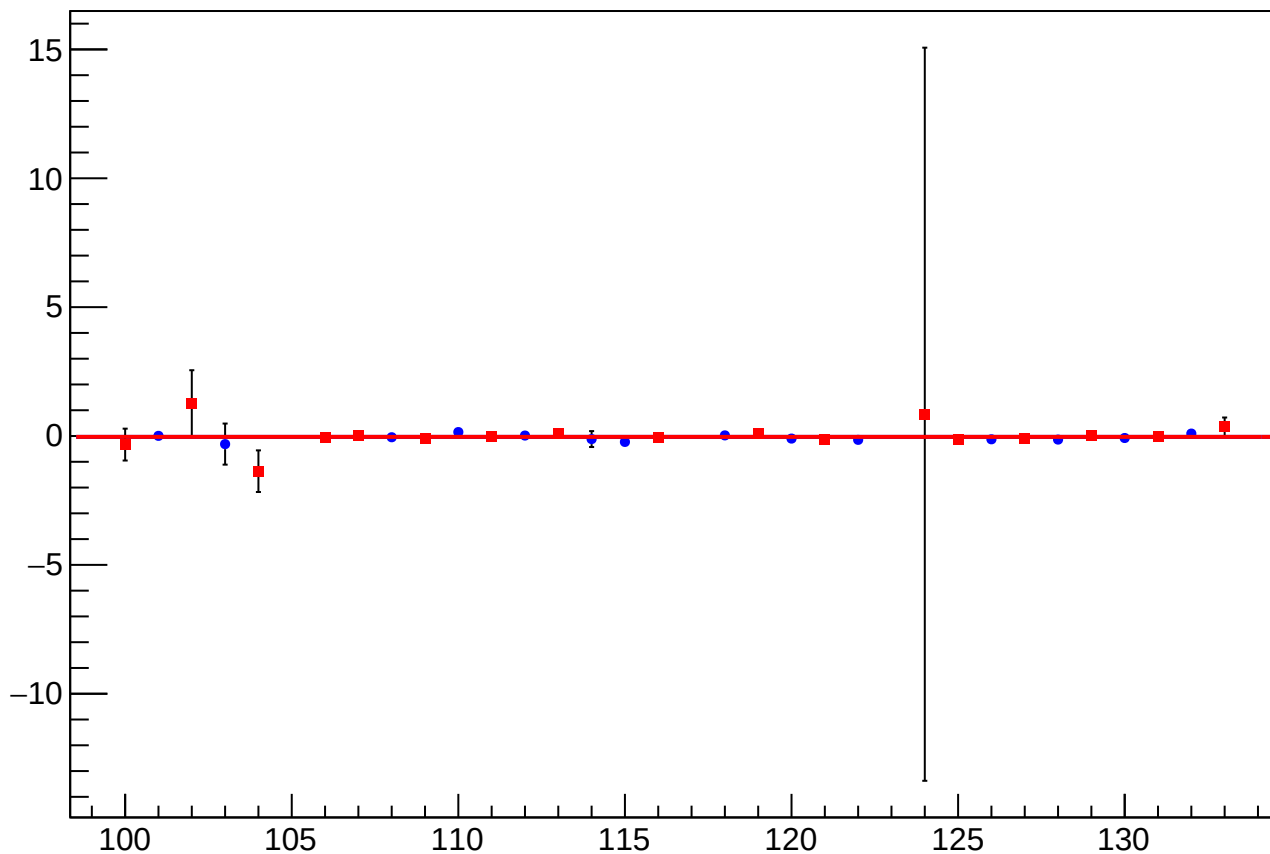
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 63.845+/-0.015  $\chi^2/\text{NDF}$ : 5649160.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_at2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.035 \pm 0.033$   $\chi^2/\text{NDF}: 7.1/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.033 \pm 0.029$   $\chi^2/\text{NDF}: 11.8/16$

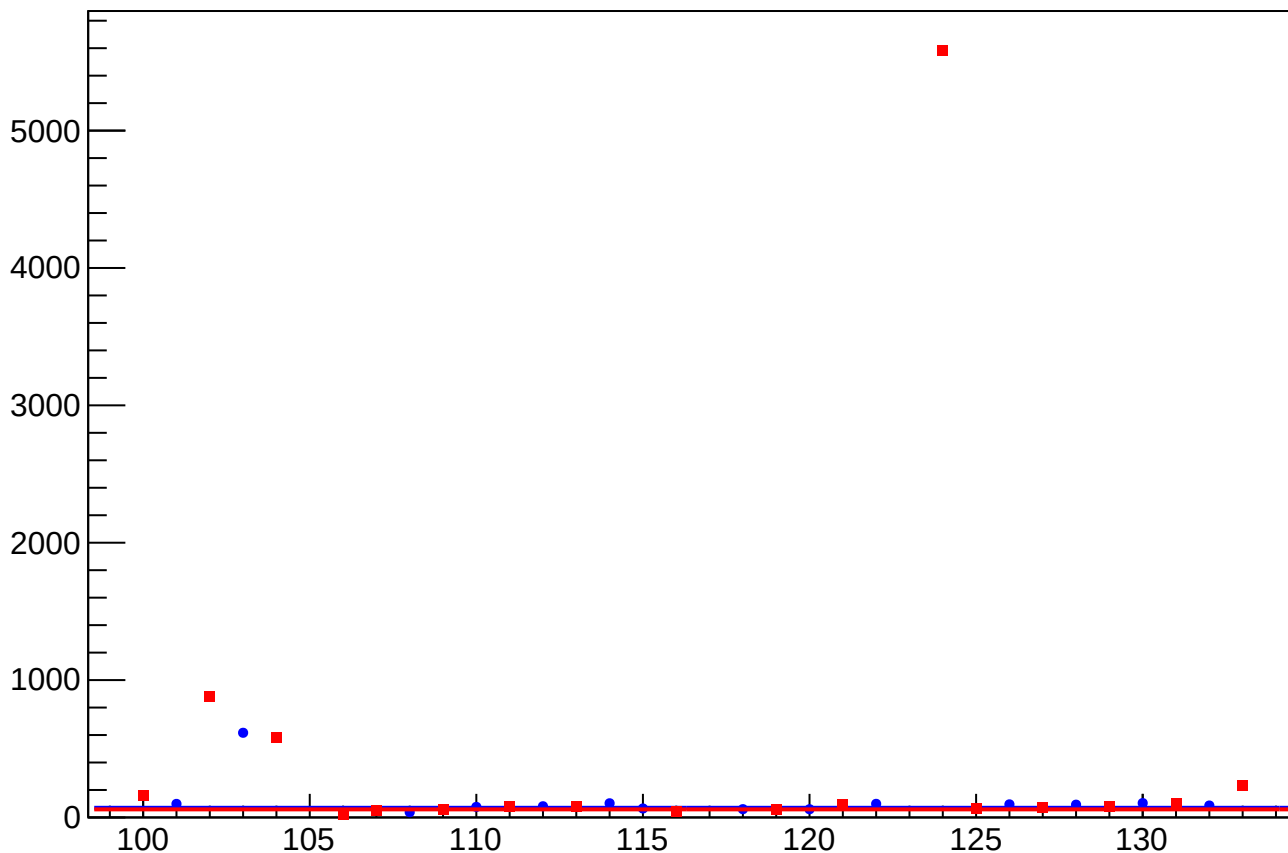
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.034 \pm 0.022$   $\chi^2/\text{NDF}: 18.9/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_at2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 70.271+/-0.023  $\chi^2/\text{NDF}$ : 1903946.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 58.863+/-0.020  $\chi^2/\text{NDF}$ : 3608898.2/16

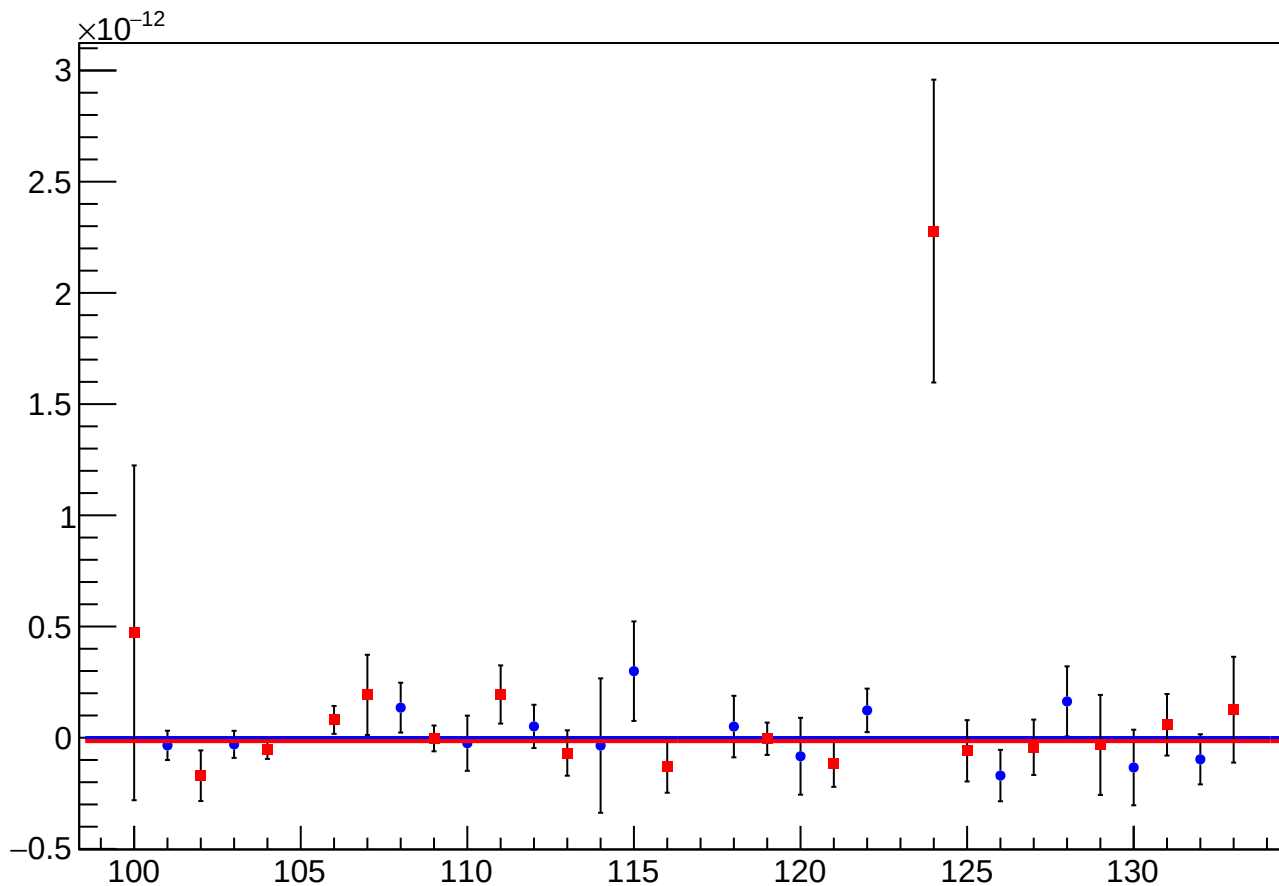
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 63.845+/-0.015  $\chi^2/\text{NDF}$ : 5649160.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 23.7/16

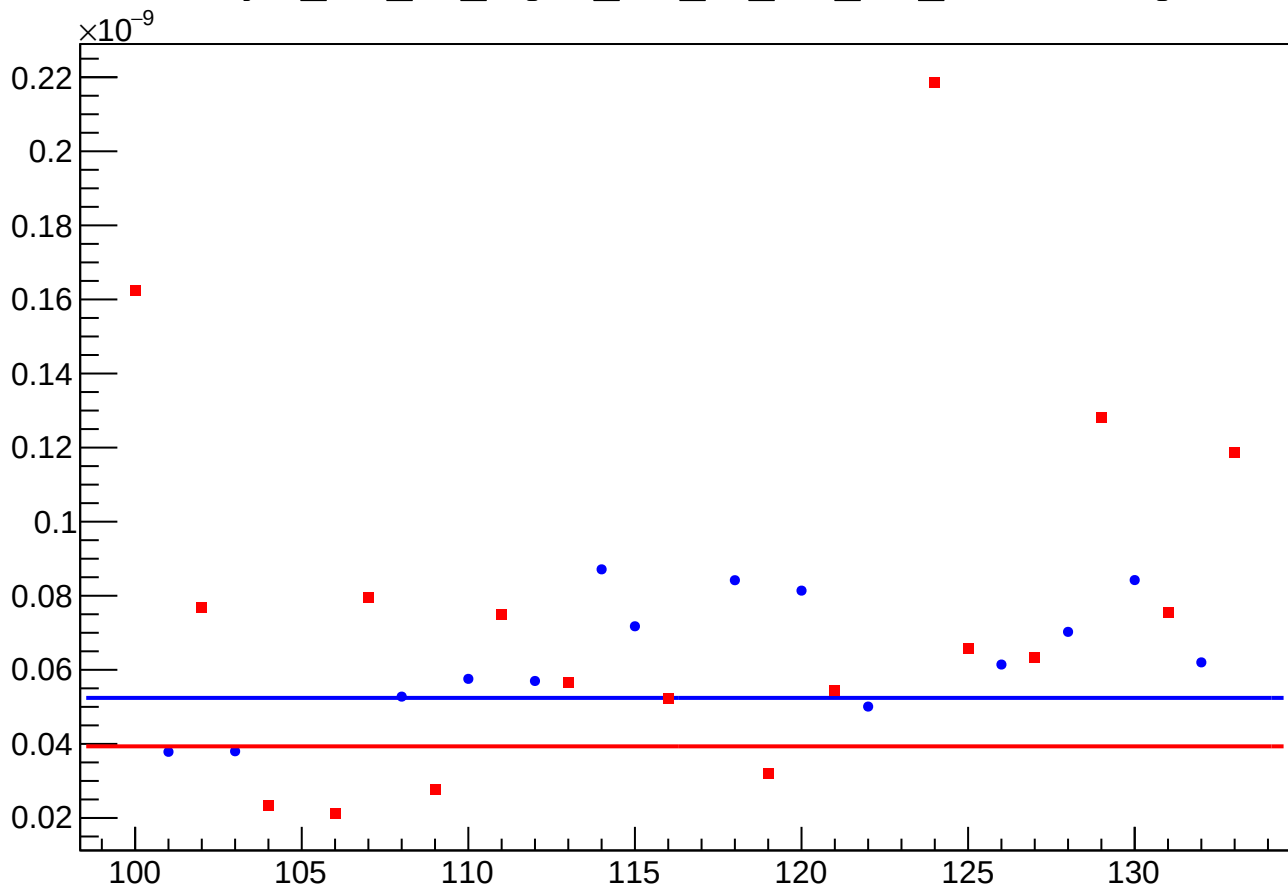
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 34.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 544215.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2163243.4/16

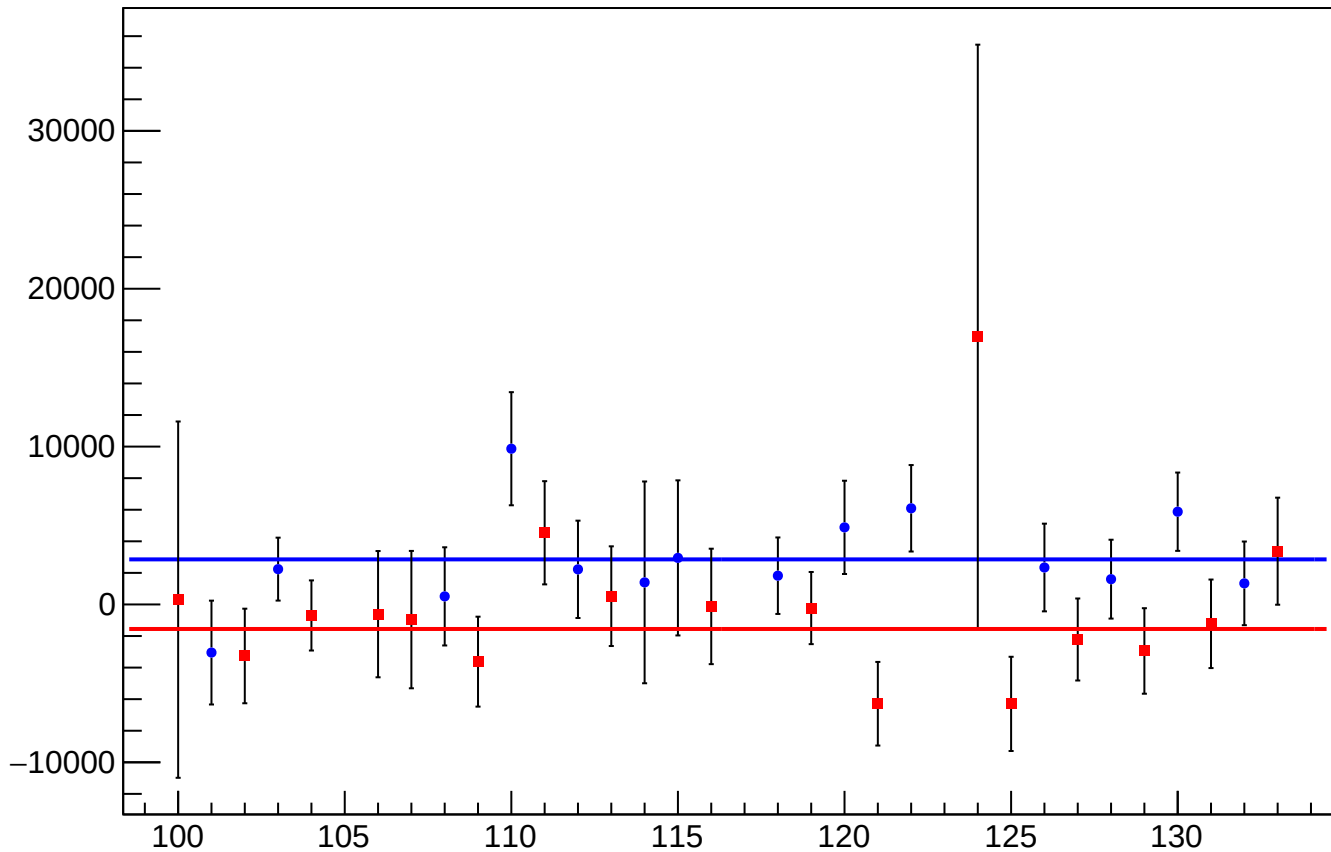
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2961760.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_avg\_mean vs Slug



Right In: 2854.793+/-764.810  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1553.703+/-750.155  $\chi^2/\text{NDF}$ : 14.7/16

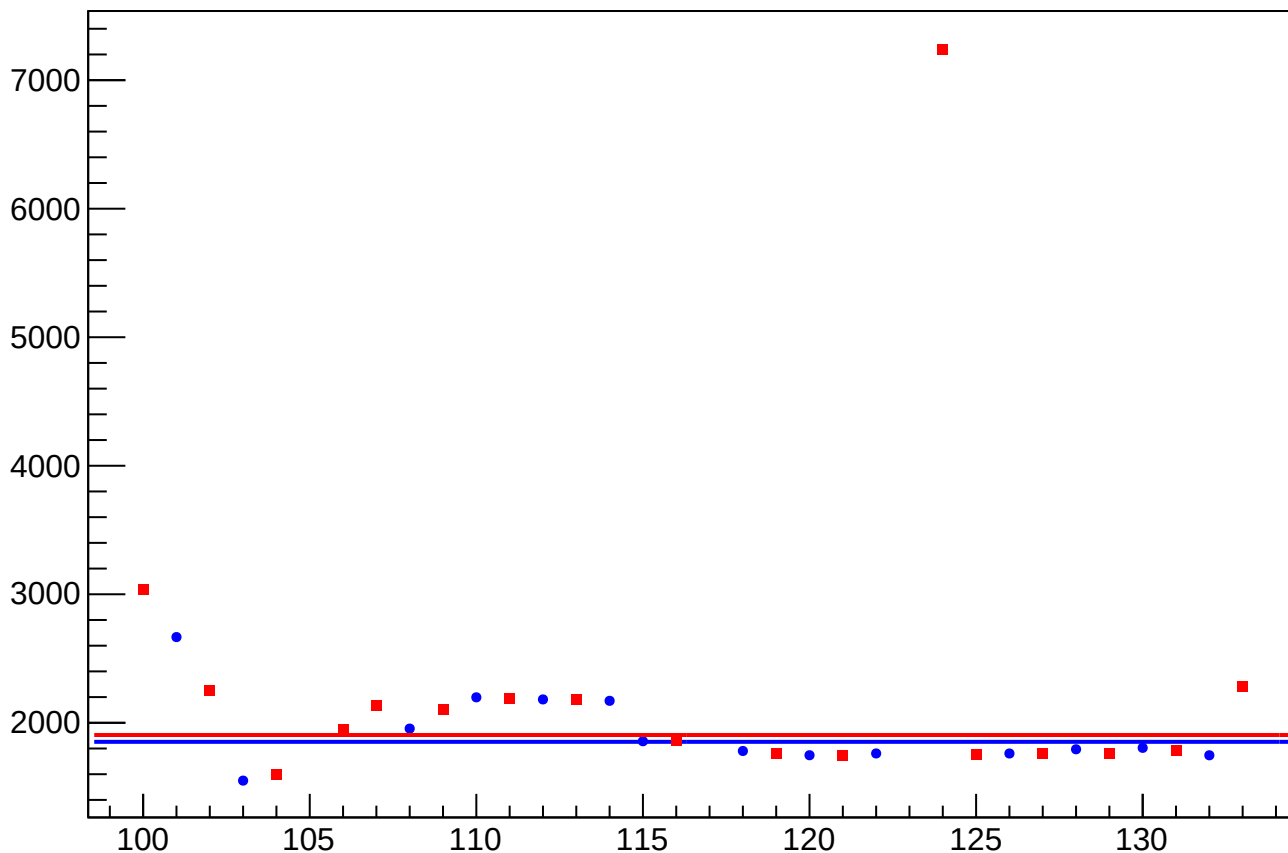
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 607.903+/-535.546  $\chi^2/\text{NDF}$ : 43.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 1851.987+/-0.541  $\chi^2/\text{NDF}$ : 230833.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1905.075+/-0.529  $\chi^2/\text{NDF}$ : 357972.2/16

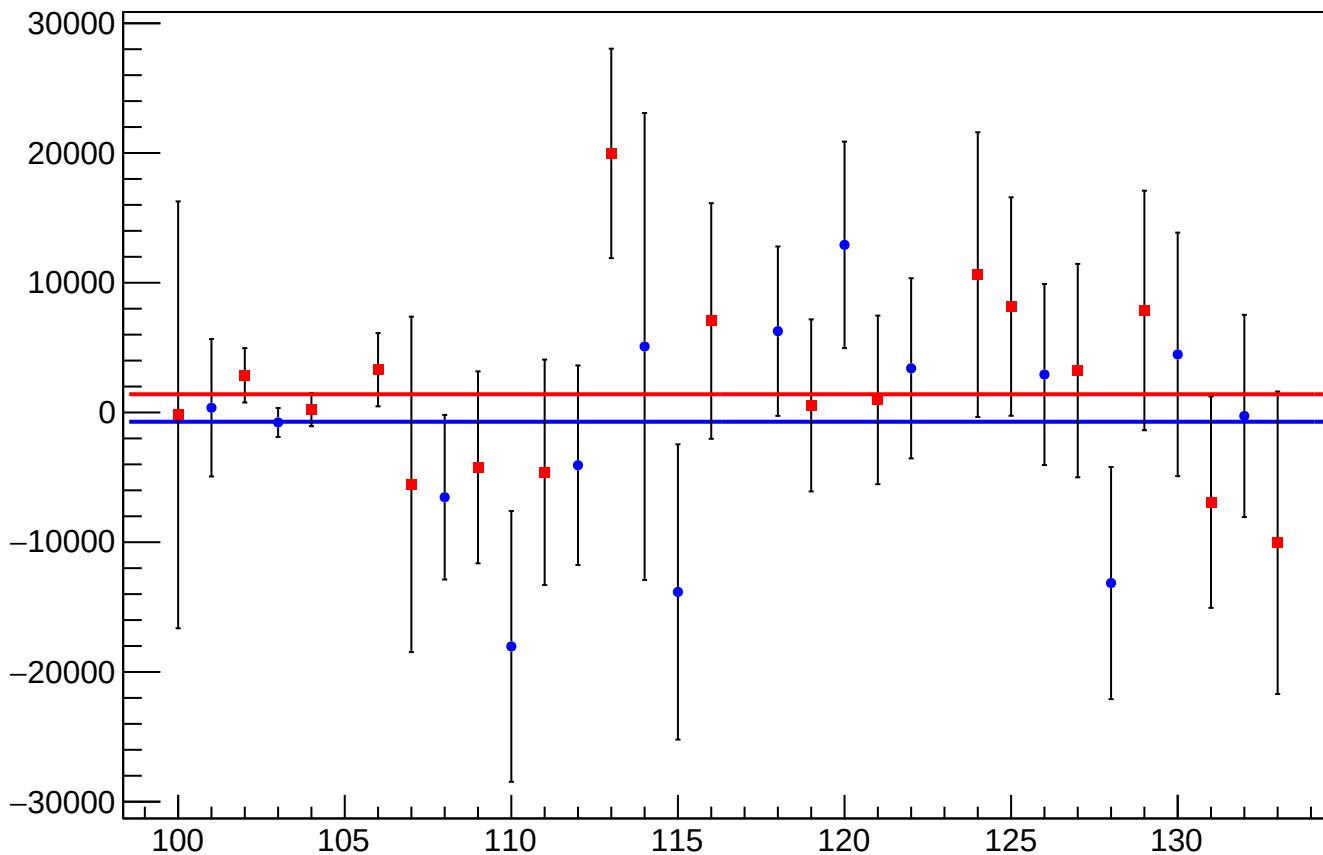
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1879.114+/-0.378  $\chi^2/\text{NDF}$ : 593729.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_reg\_correction\_mean vs Slug



Right In: -714.188+/-988.447  $\chi^2/\text{NDF}$ : 12.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1405.901+/-930.844  $\chi^2/\text{NDF}$ : 12.8/16

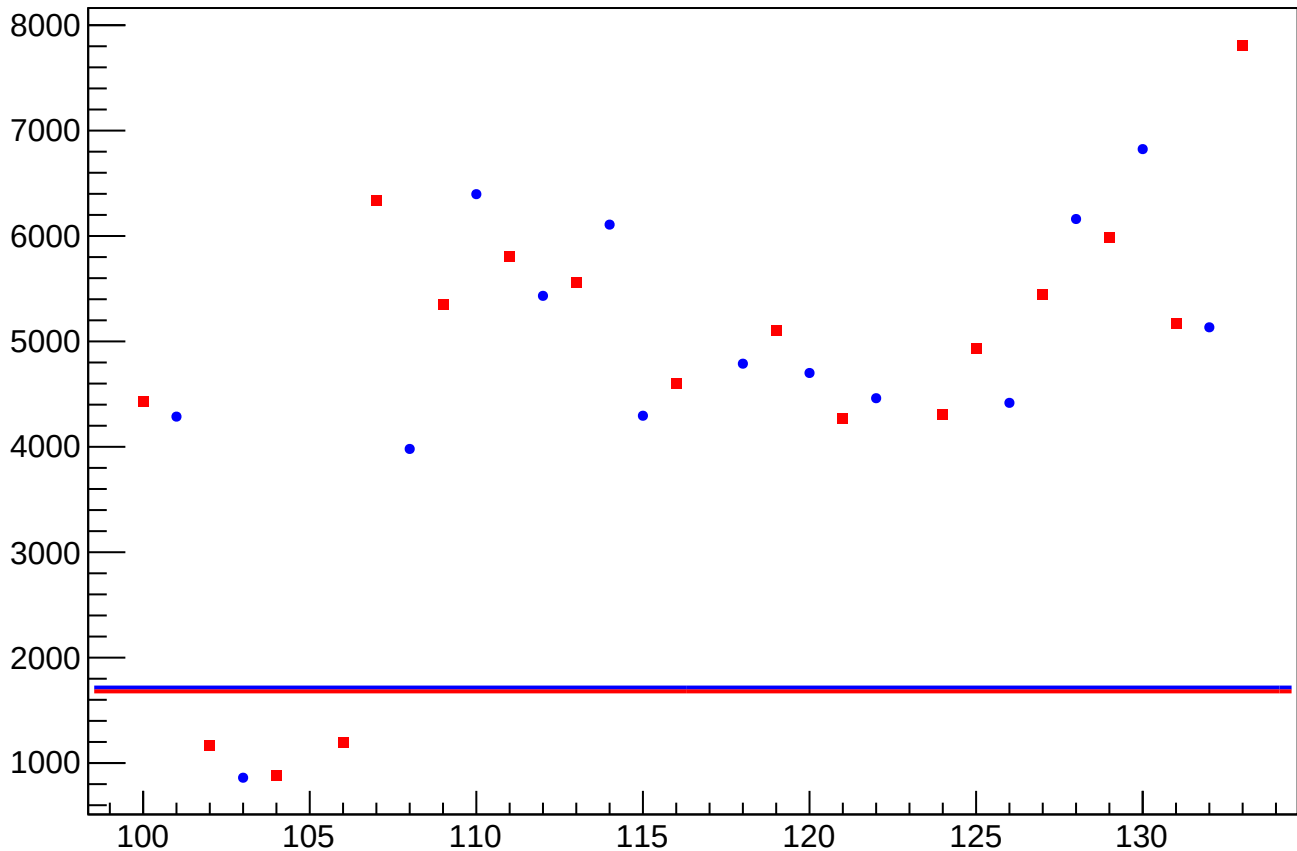
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 409.429+/-677.655  $\chi^2/\text{NDF}$ : 27.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_reg\_correction\_rms vs Slug



Right In: 1716.125+/-0.699  $\chi^2/\text{NDF}$ : 5802699.2/13

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: 1679.858+/-0.658  $\chi^2/\text{NDF}$ : 5917388.5/16

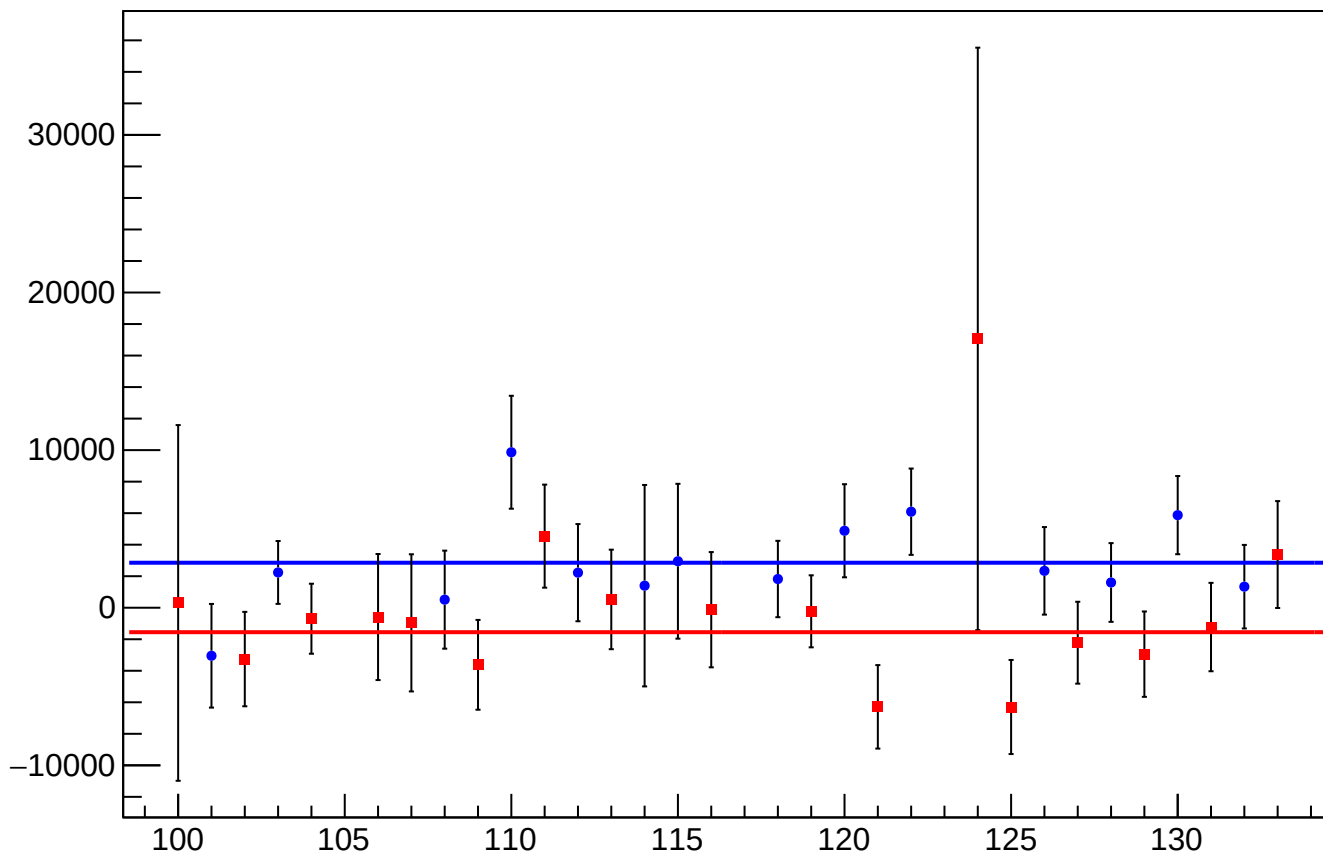
All: 1696.904+/-0.479  $\chi^2/\text{NDF}$ : 11721514.6/3

- 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



# cor\_asym\_atl1r2\_avg\_mean vs Slug



Right In: 2854.887+/-764.810  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1552.170+/-750.156  $\chi^2/\text{NDF}$ : 14.7/16

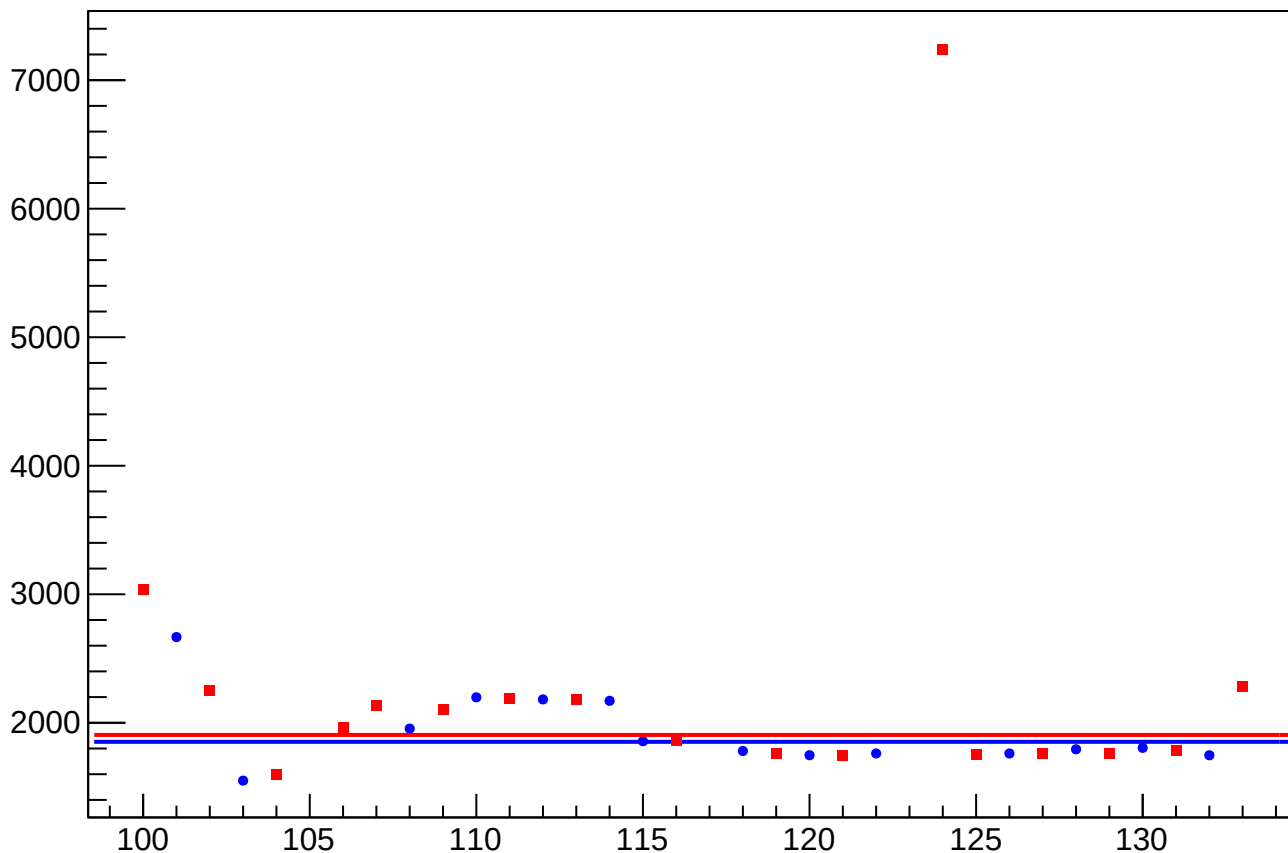
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 608.734+/-535.546  $\chi^2/\text{NDF}$ : 43.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 1851.987+/-0.541  $\chi^2/\text{NDF}$ : 230833.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1905.598+/-0.529  $\chi^2/\text{NDF}$ : 358163.2/16

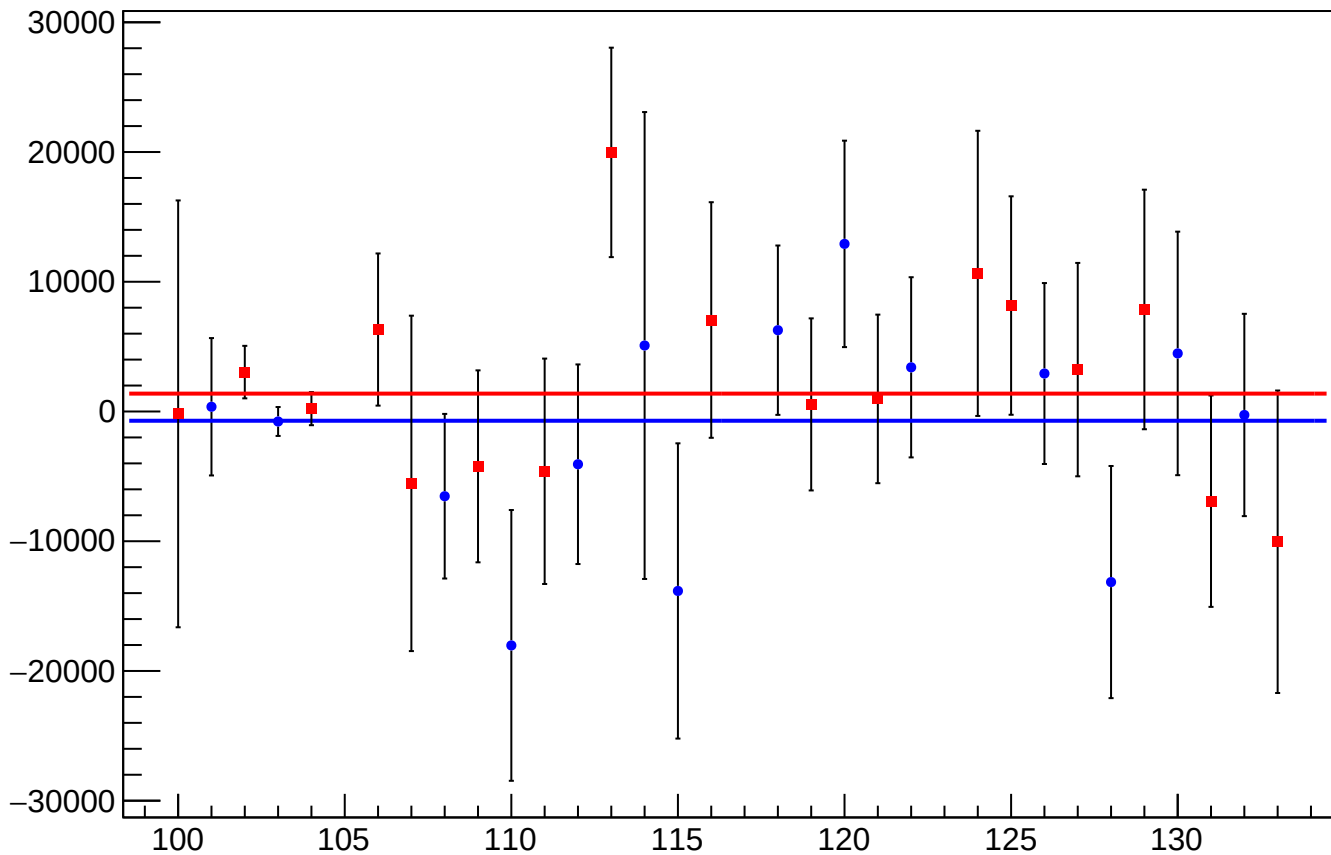
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1879.374+/-0.378  $\chi^2/\text{NDF}$ : 594016.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_cor\_correction\_mean vs Slug



Right In: -713.698+/-988.389  $\chi^2$ /NDF: 12.2/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1377.978+/-964.743  $\chi^2$ /NDF: 13.2/16

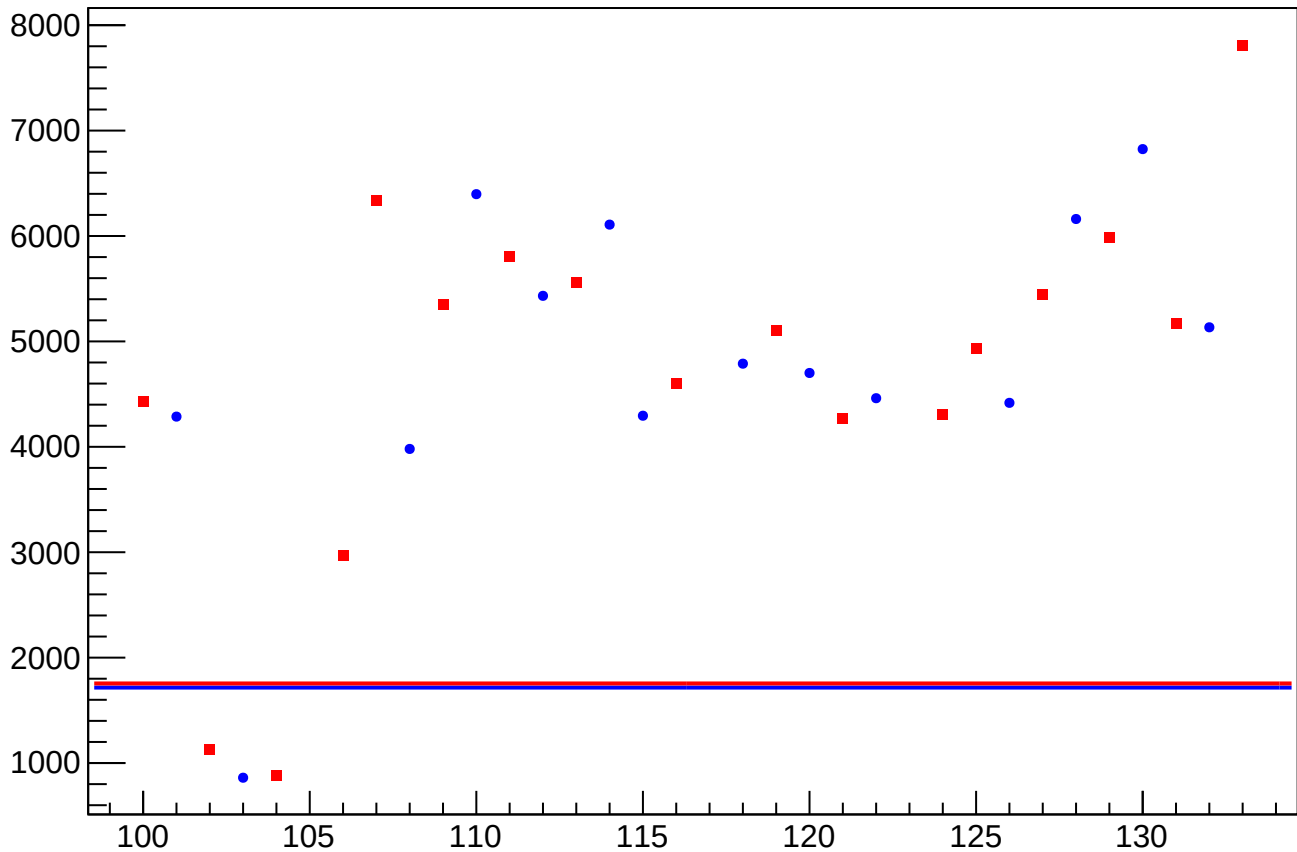
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 357.461+/-690.385  $\chi^2$ /NDF: 27.7/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_avg\_cor\_correction\_rms vs Slug



Right In: 1715.981+/-0.699  $\chi^2/\text{NDF}$ : 5803032.1/13

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

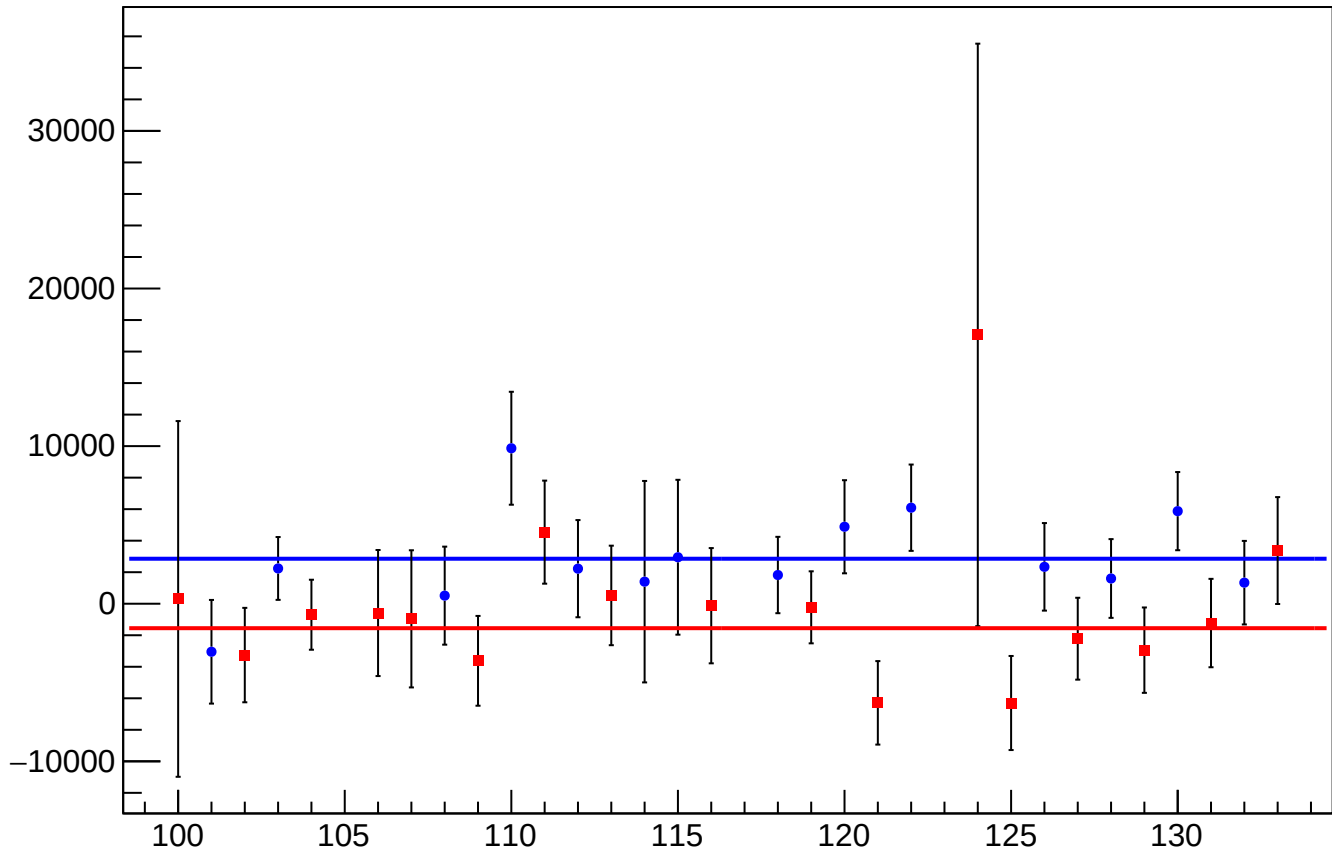
Right Out: 1754.971+/-0.682  $\chi^2/\text{NDF}$ : 5971047.9/16

All: 1735.948+/-0.488  $\chi^2/\text{NDF}$ : 11775673.9/3

- 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

# eigen\_cor\_asym\_atl1r2\_avg\_mean vs Slug



Right In: 2854.887 $\pm$ 764.810  $\chi^2$ /NDF: 12.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1552.170 $\pm$ 750.156  $\chi^2$ /NDF: 14.7/16

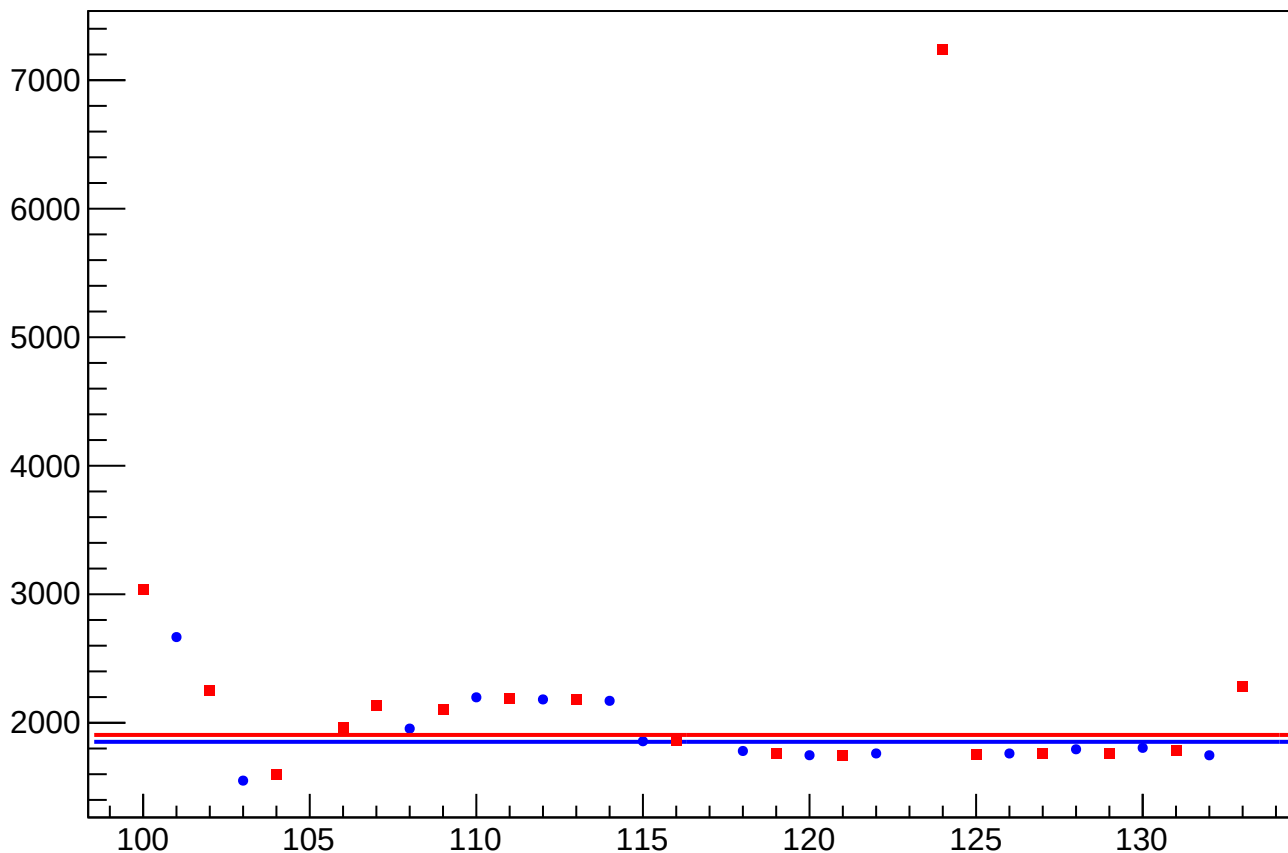
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 608.734 $\pm$ 535.546  $\chi^2$ /NDF: 43.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 1851.987+/-0.541  $\chi^2$ /NDF: 230833.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1905.598+/-0.529  $\chi^2$ /NDF: 358163.2/16

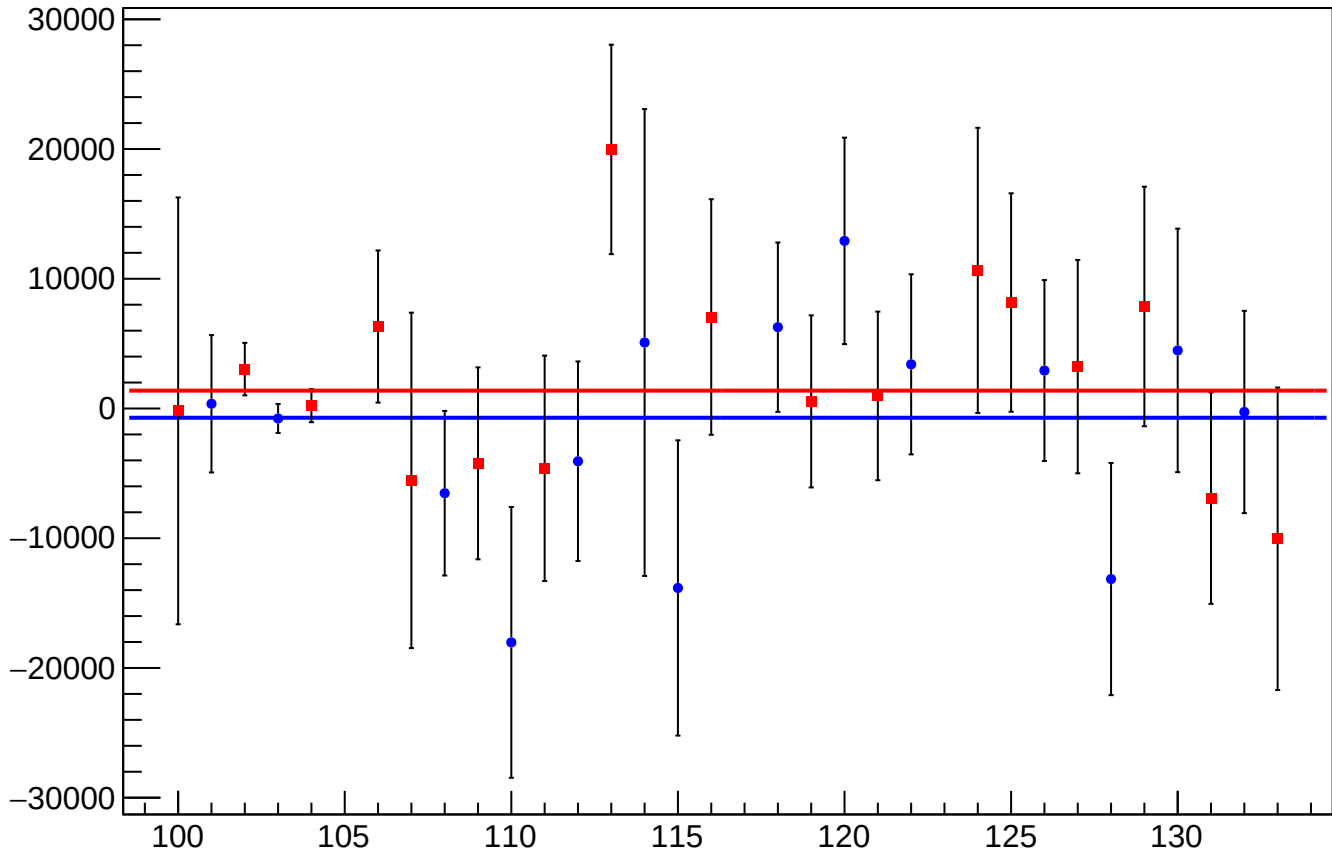
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 1879.374+/-0.378  $\chi^2$ /NDF: 594016.4/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -713.698+/-988.389  $\chi^2/\text{NDF}$ : 12.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1377.978+/-964.743  $\chi^2/\text{NDF}$ : 13.2/16

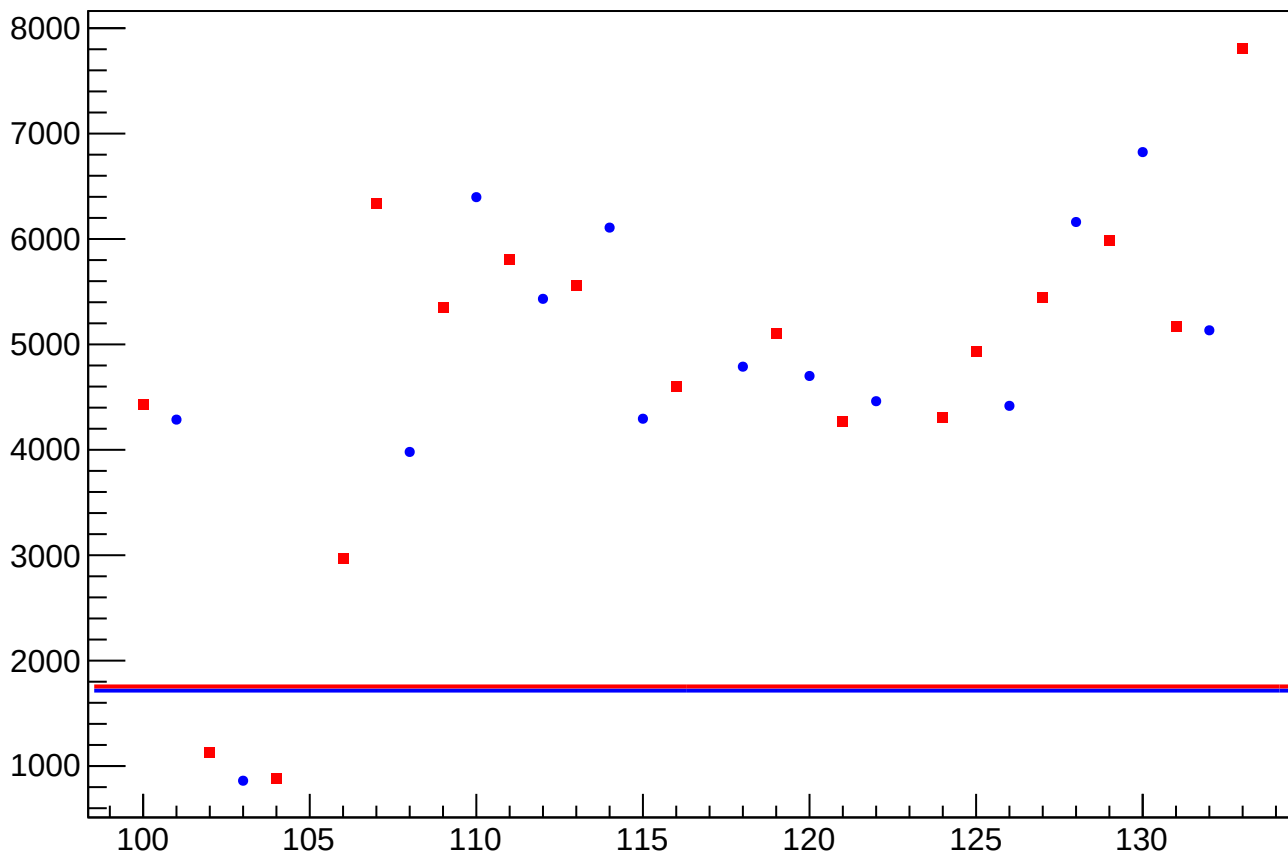
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 357.461+/-690.385  $\chi^2/\text{NDF}$ : 27.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1715.981+/-0.699  $\chi^2/\text{NDF}$ : 5803032.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1754.971+/-0.682  $\chi^2/\text{NDF}$ : 5971047.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

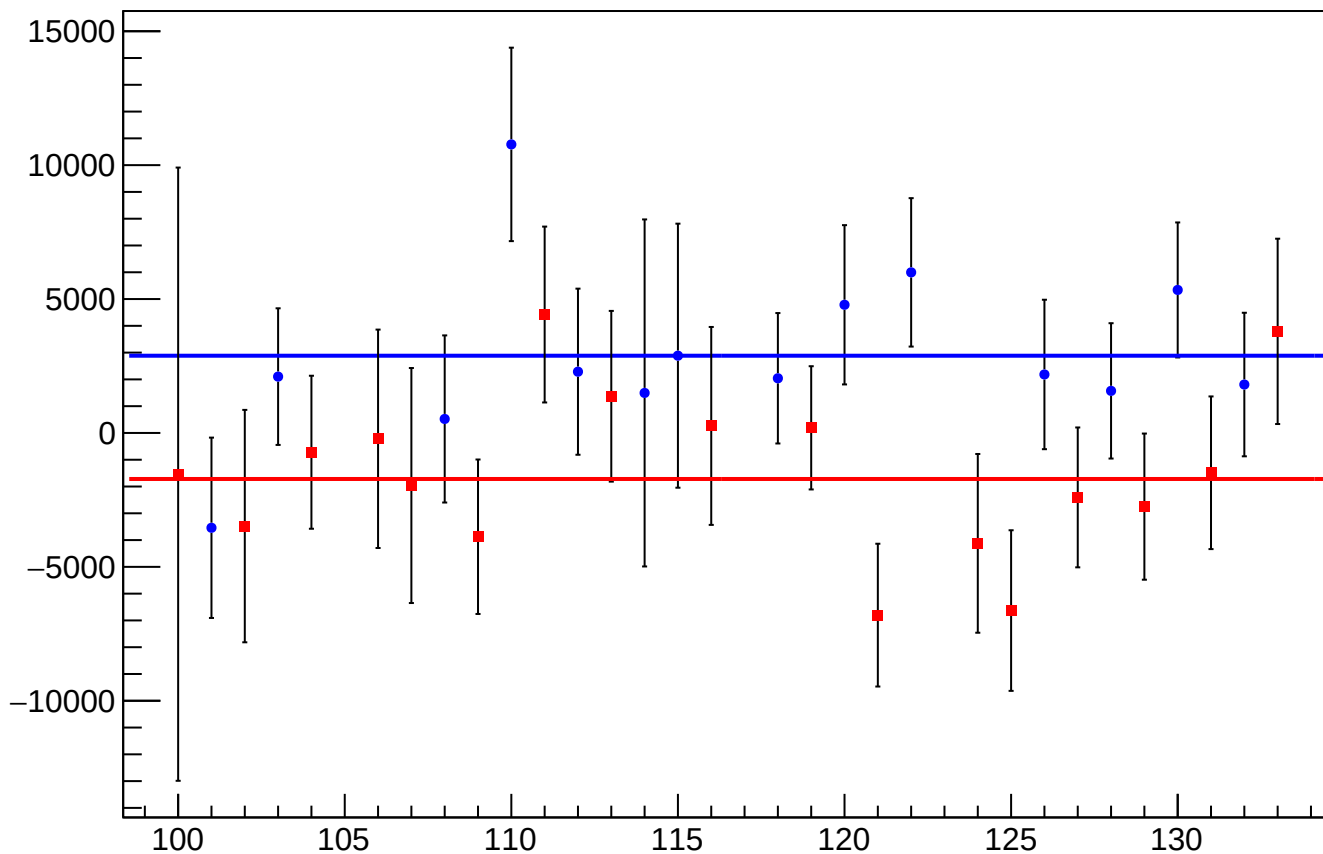
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1735.948+/-0.488  $\chi^2/\text{NDF}$ : 11775673.9/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_atl1r2\_avg\_mean vs Slug



Right In: 2884.060+/-794.572  $\chi^2$ /NDF: 12.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1718.695+/-767.347  $\chi^2$ /NDF: 16.0/16

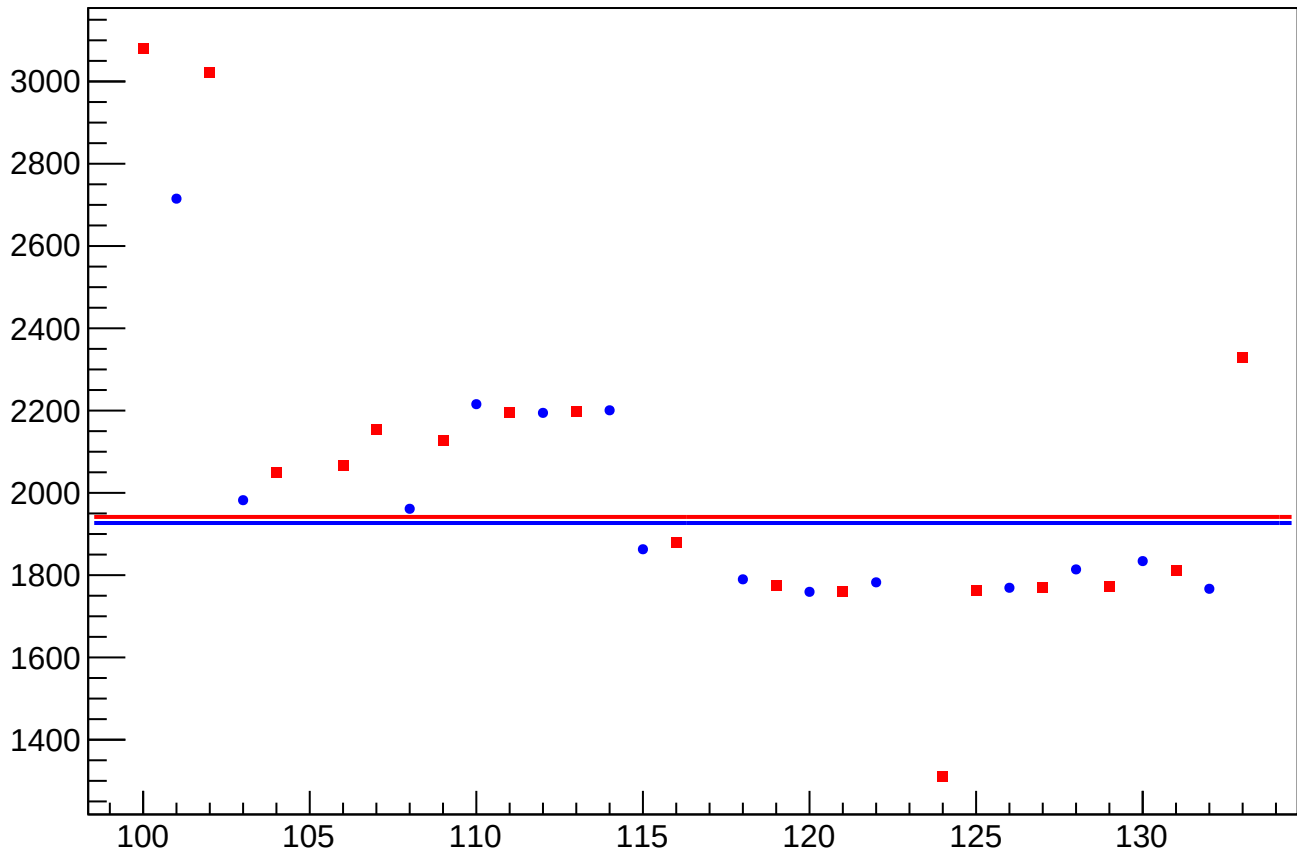
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 502.477+/-551.970  $\chi^2$ /NDF: 45.8/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 1926.752 $\pm$ 0.562  $\chi^2$ /NDF: 180673.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1941.501 $\pm$ 0.542  $\chi^2$ /NDF: 331031.1/16

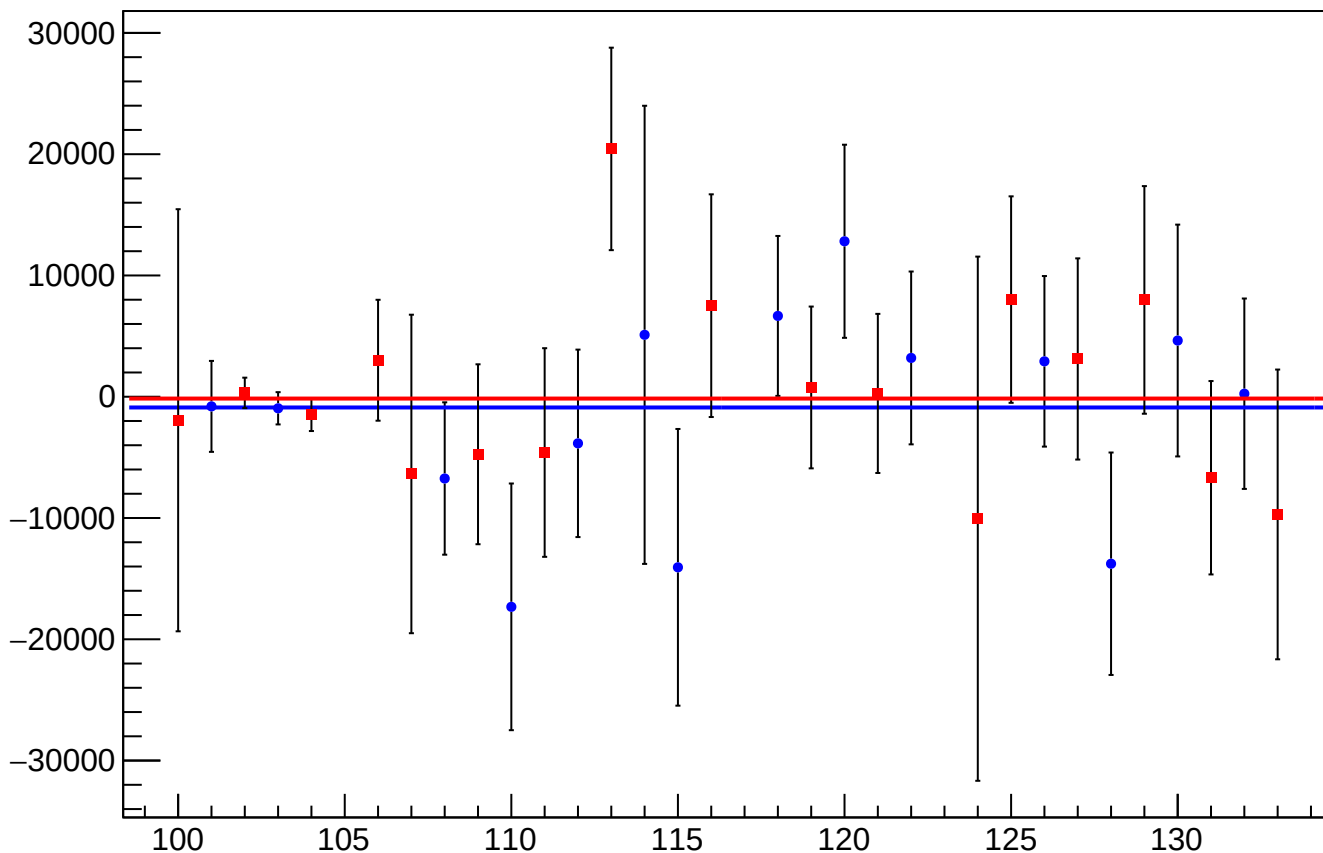
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1934.390 $\pm$ 0.390  $\chi^2$ /NDF: 512061.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_avg\_dit\_correction\_mean vs Slug



Right In: -885.570+/-1106.944  $\chi^2/\text{NDF}$ : 12.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -150.407+/-846.484  $\chi^2/\text{NDF}$ : 12.5/16

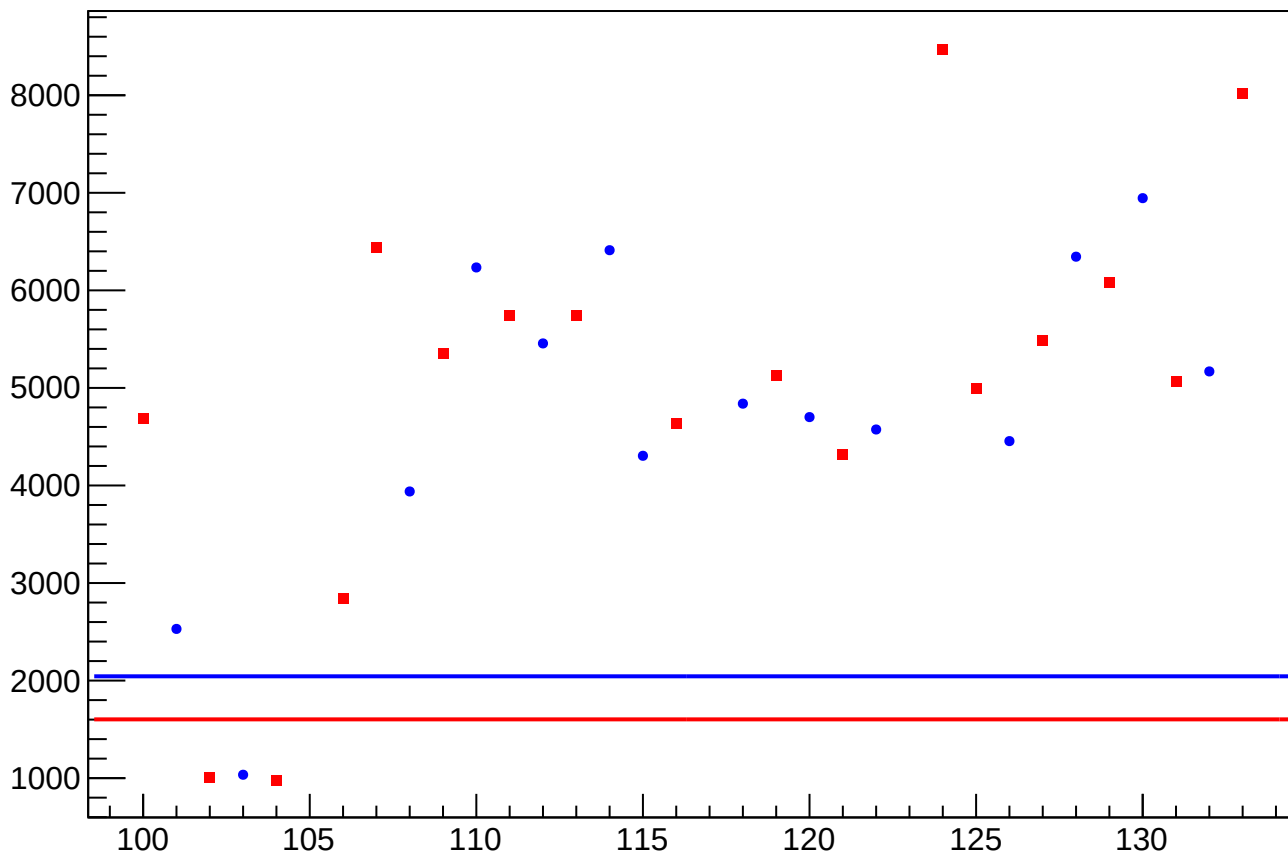
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -421.678+/-672.412  $\chi^2/\text{NDF}$ : 25.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_dit\_correction\_rms vs Slug



Right In: 2043.842+/-0.783  $\chi^2/\text{NDF}$ : 4633061.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1602.450+/-0.599  $\chi^2/\text{NDF}$ : 6288435.7/16

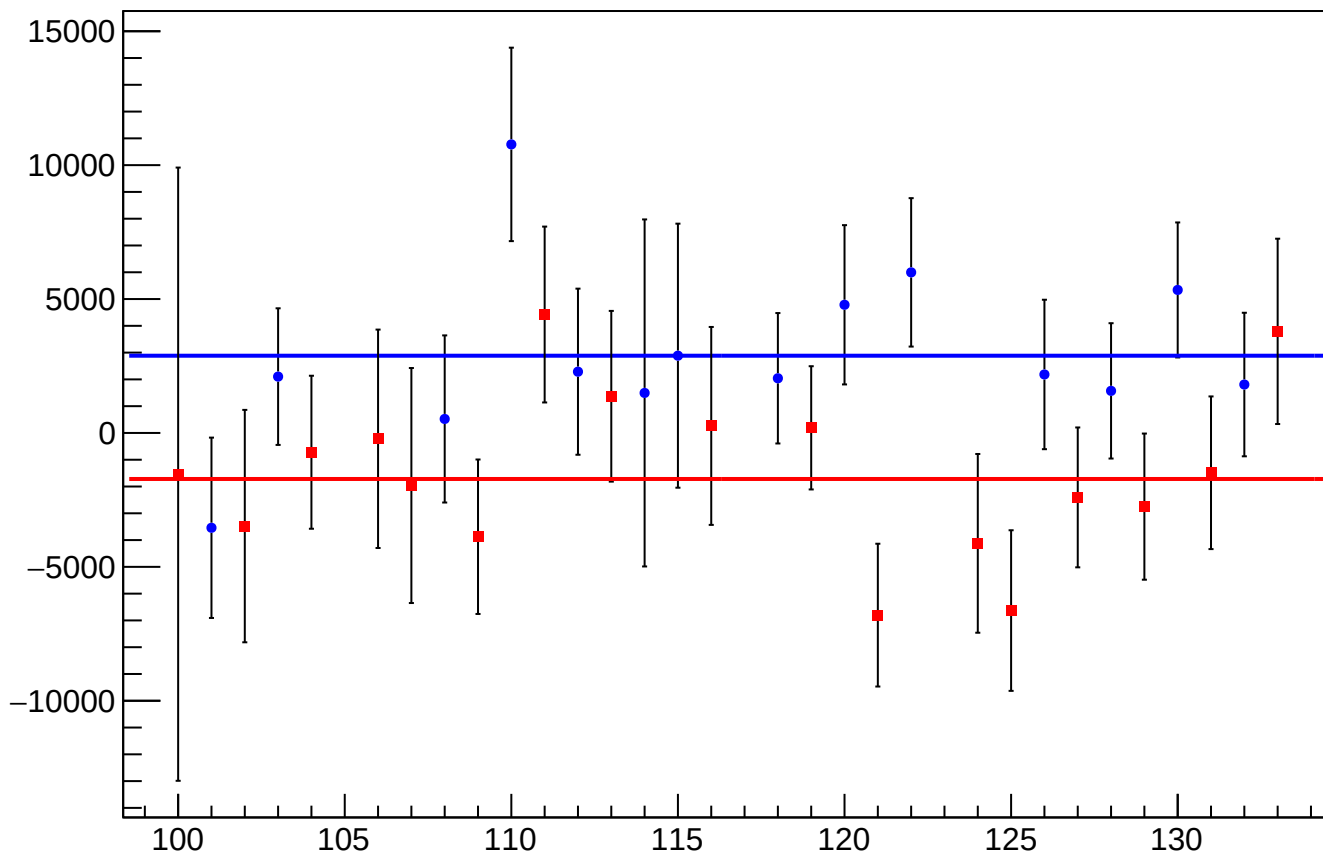
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1765.321+/-0.475  $\chi^2/\text{NDF}$ : 11122157.9/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl1r2\_avg\_mean vs Slug



Right In: 2884.057+/-794.572  $\chi^2$ /NDF: 12.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1718.700+/-767.346  $\chi^2$ /NDF: 16.0/16

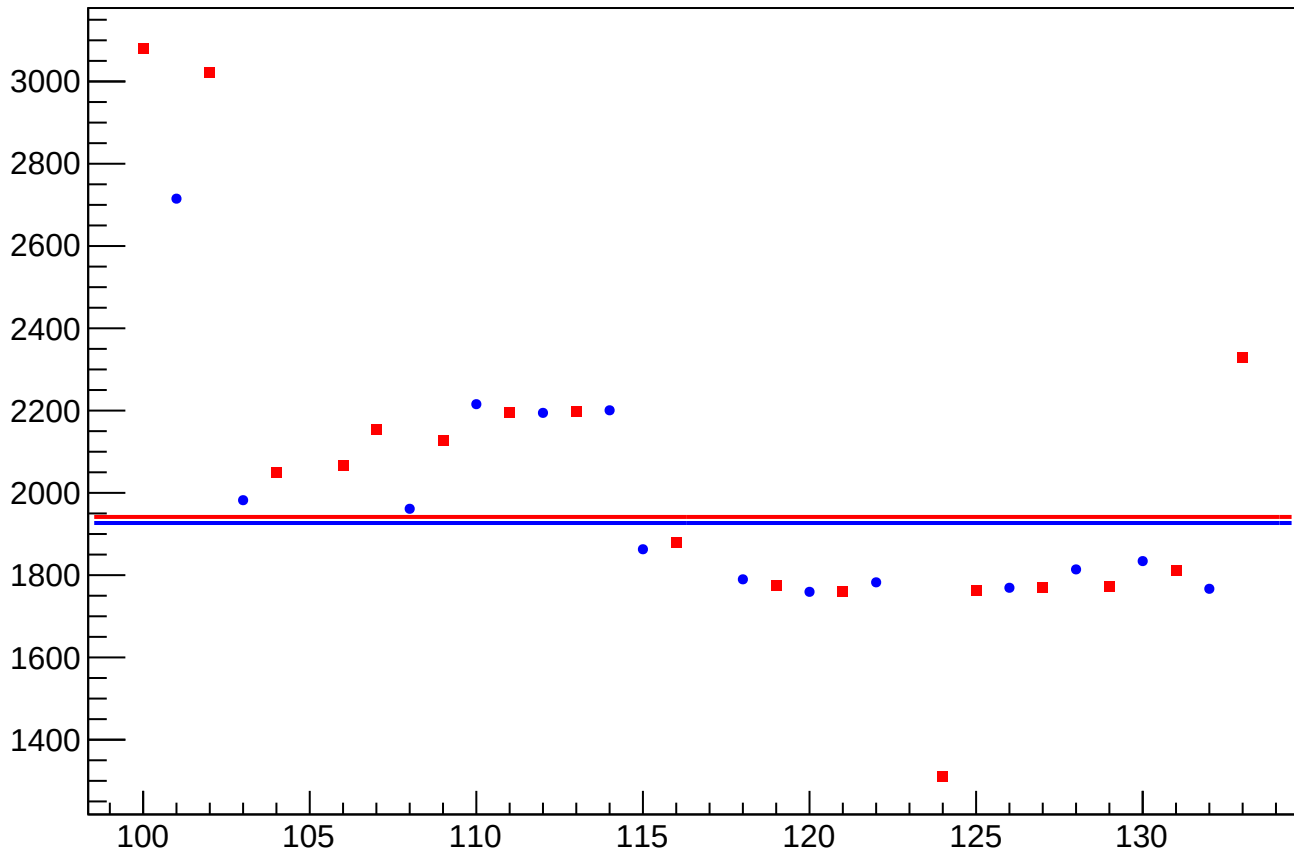
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 502.473+/-551.970  $\chi^2$ /NDF: 45.8/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 1926.751+/-0.562  $\chi^2/\text{NDF}$ : 180673.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1941.500+/-0.542  $\chi^2/\text{NDF}$ : 331030.3/16

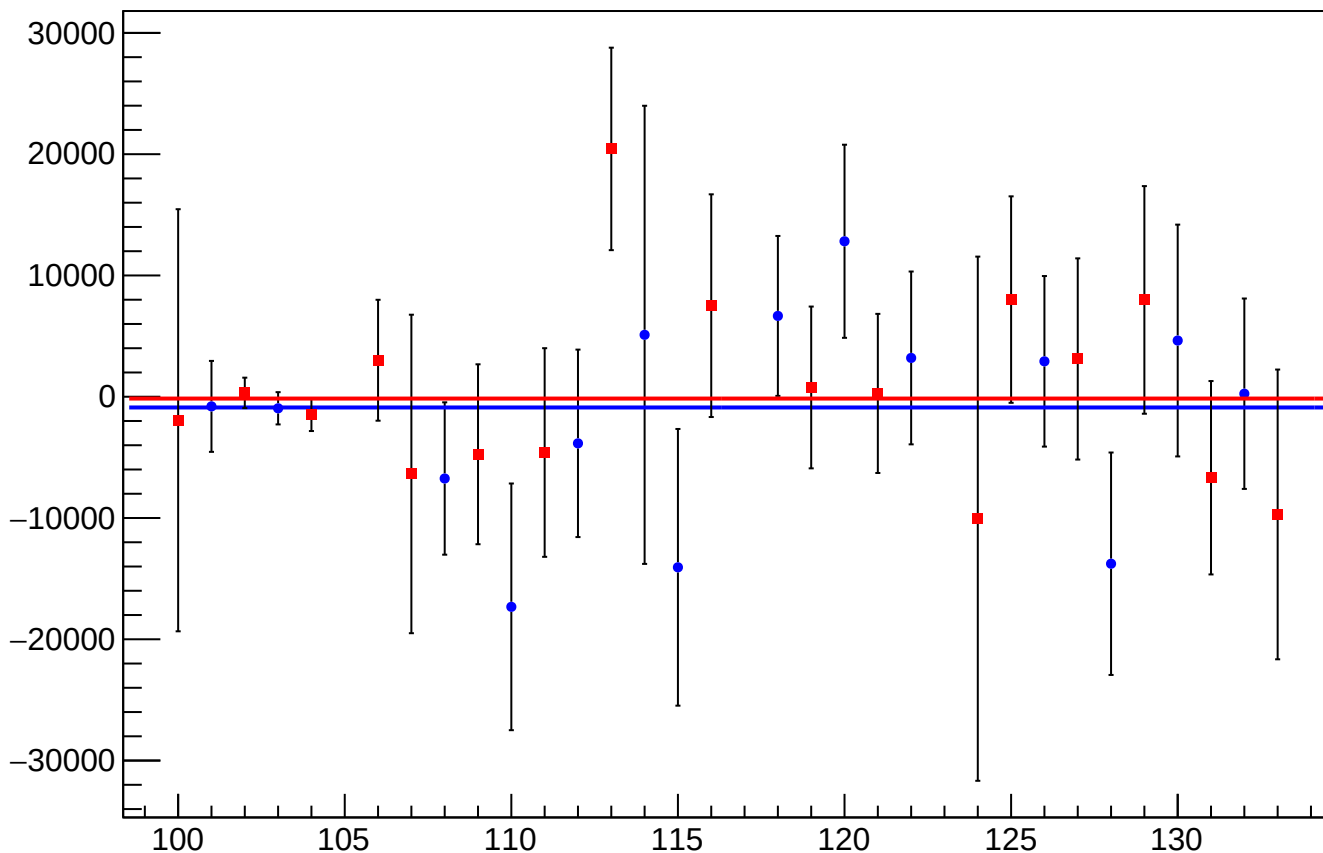
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1934.389+/-0.390  $\chi^2/\text{NDF}$ : 512060.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In:  $-885.571 \pm 1106.943$   $\chi^2/\text{NDF}$ : 12.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-150.401 \pm 846.483$   $\chi^2/\text{NDF}$ : 12.5/16

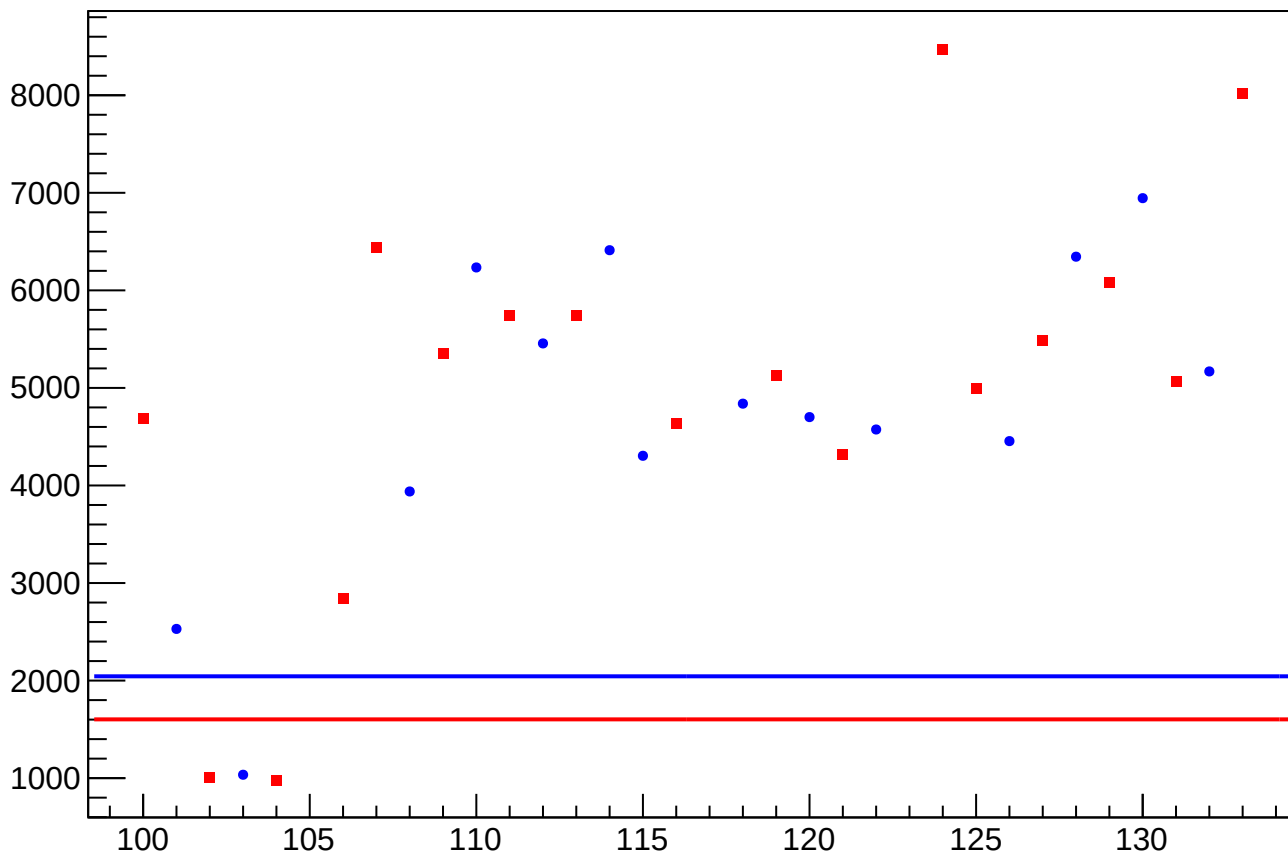
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-421.675 \pm 672.411$   $\chi^2/\text{NDF}$ : 25.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 2043.842+/-0.783  $\chi^2/\text{NDF}$ : 4633051.2/13

+ 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: 1602.450+/-0.599  $\chi^2/\text{NDF}$ : 6288425.4/16

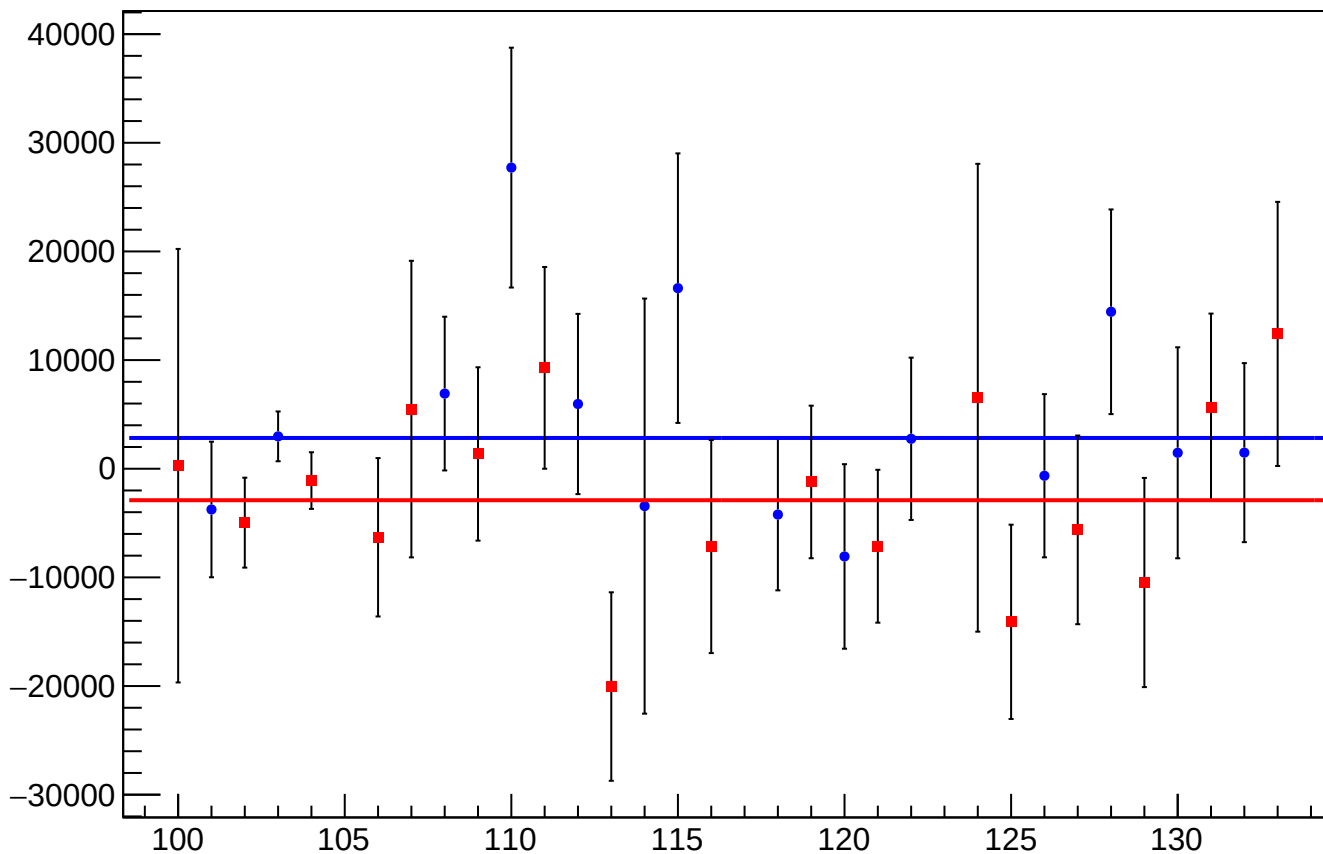
All: 1765.321+/-0.475  $\chi^2/\text{NDF}$ : 11122136.9/3

- 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



# asym\_atl1r2\_avg\_mean vs Slug



Right In: 2832.655+/-1633.666  $\chi^2/\text{NDF}$ : 12.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2897.691+/-1616.492  $\chi^2/\text{NDF}$ : 12.9/16

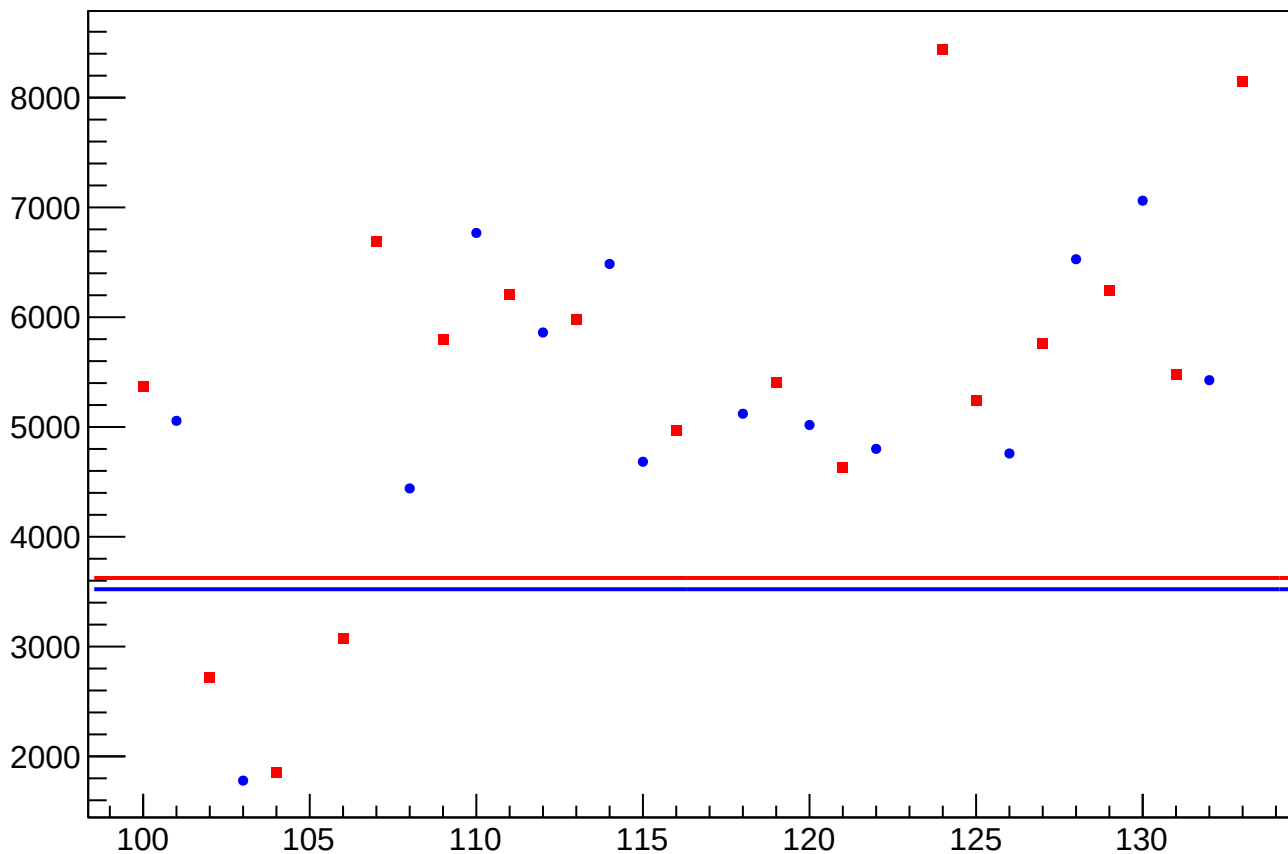
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -62.797+/-1149.056  $\chi^2/\text{NDF}$ : 31.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_rms vs Slug



Right In: 3522.461+/-1.155  $\chi^2/\text{NDF}$ : 2565075.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3624.602+/-1.131  $\chi^2/\text{NDF}$ : 2616588.9/16

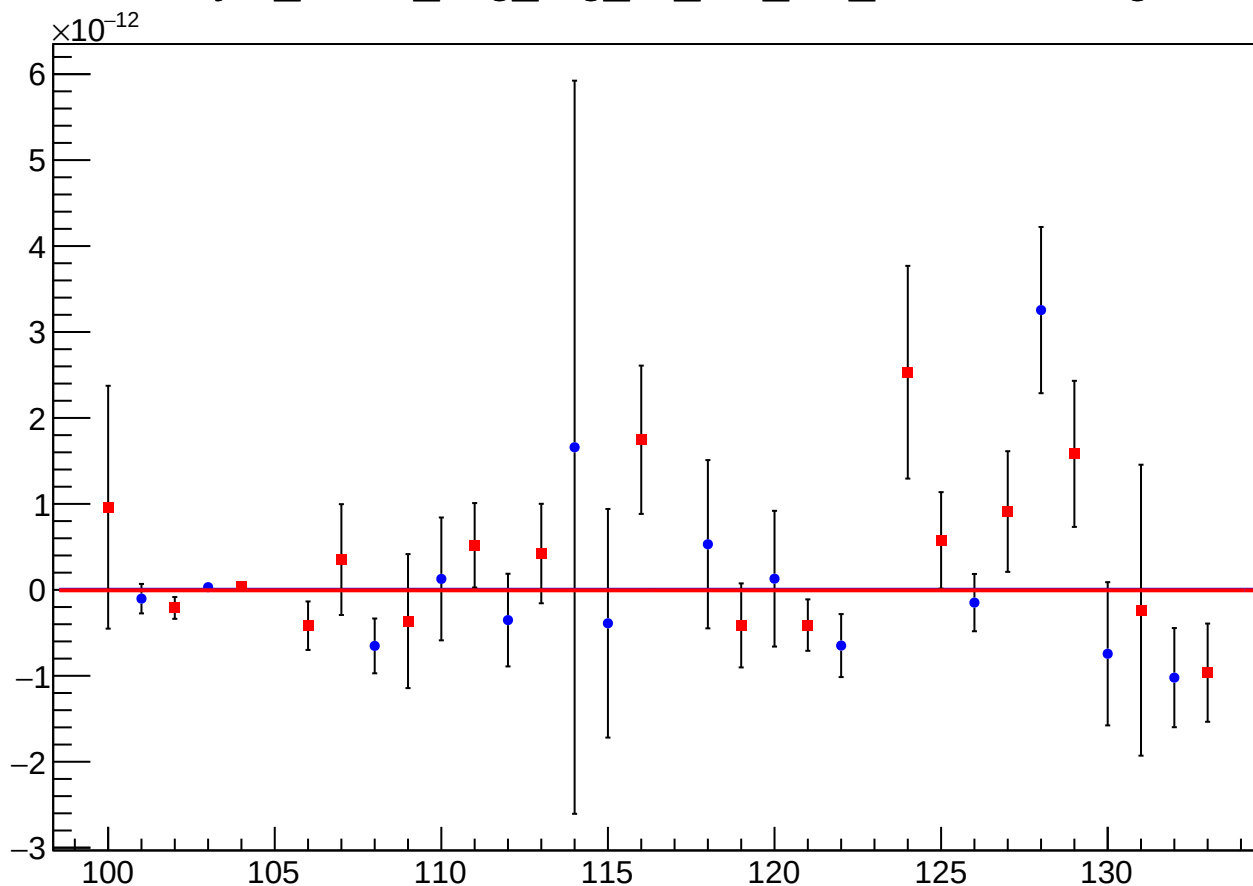
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3574.626+/-0.808  $\chi^2/\text{NDF}$ : 5185657.0/30

- 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+/-0.000  $\chi^2/\text{NDF}$ : 24.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 27.9/16

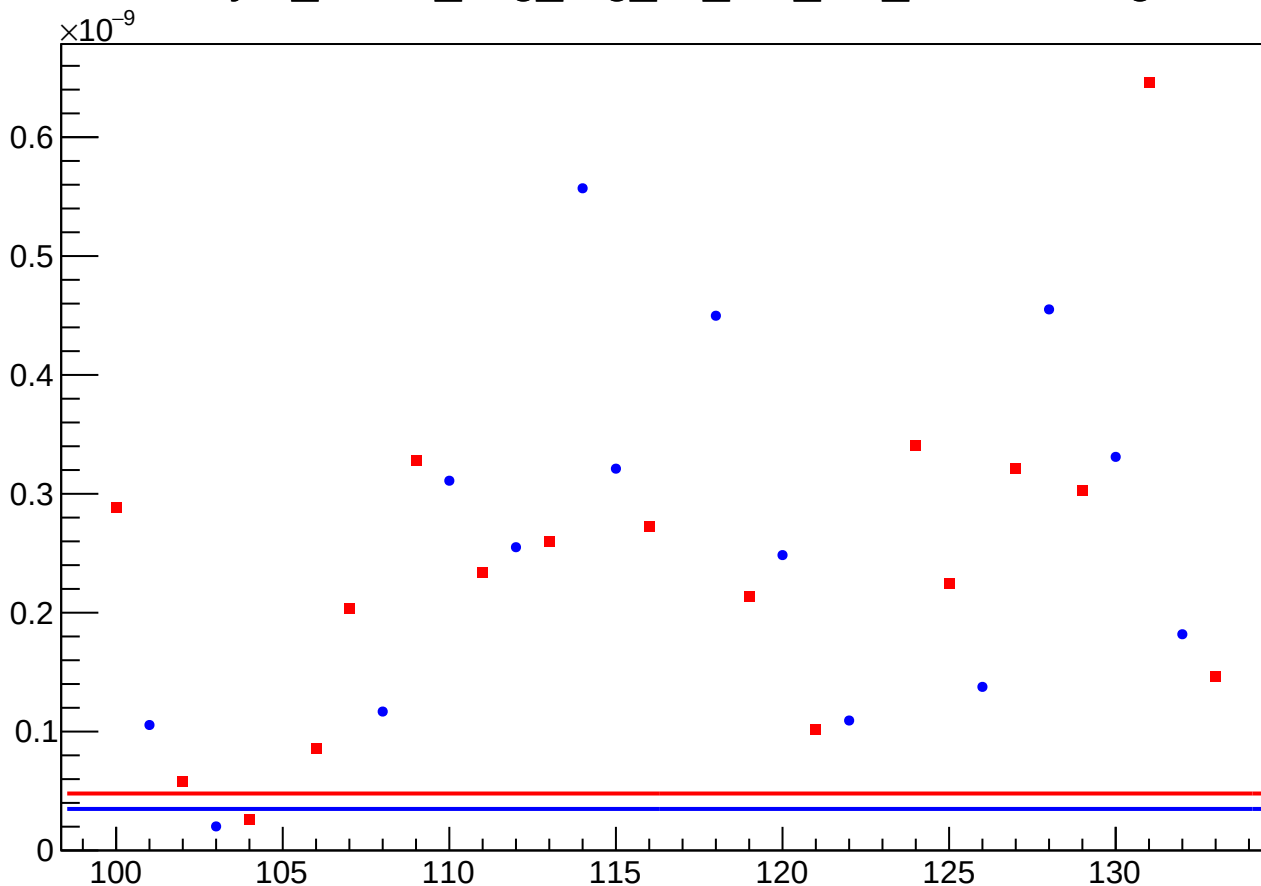
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 52.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3006889.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2888035.0/16

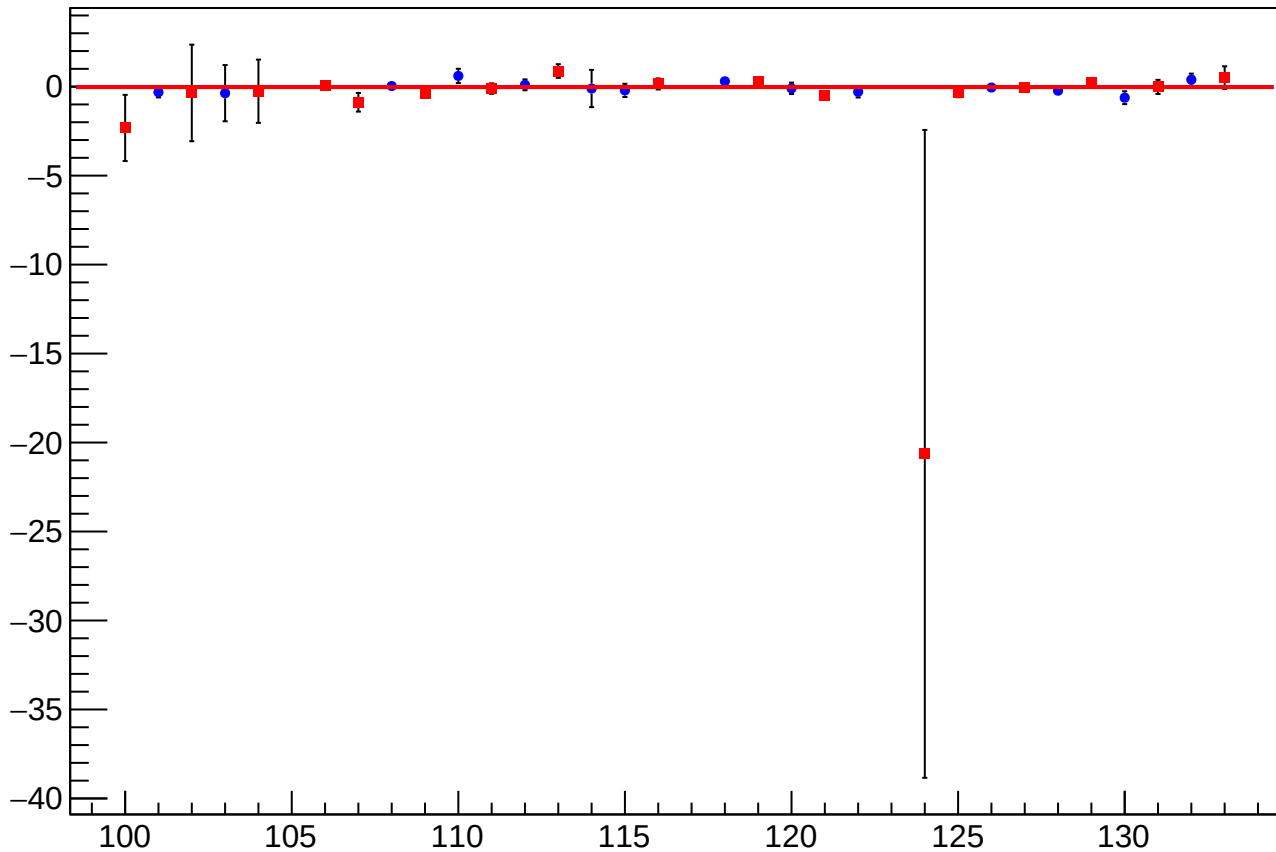
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5982587.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.022 $\pm$ 0.085  $\chi^2/\text{NDF}$ : 11.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.024 $\pm$ 0.083  $\chi^2/\text{NDF}$ : 20.9/16

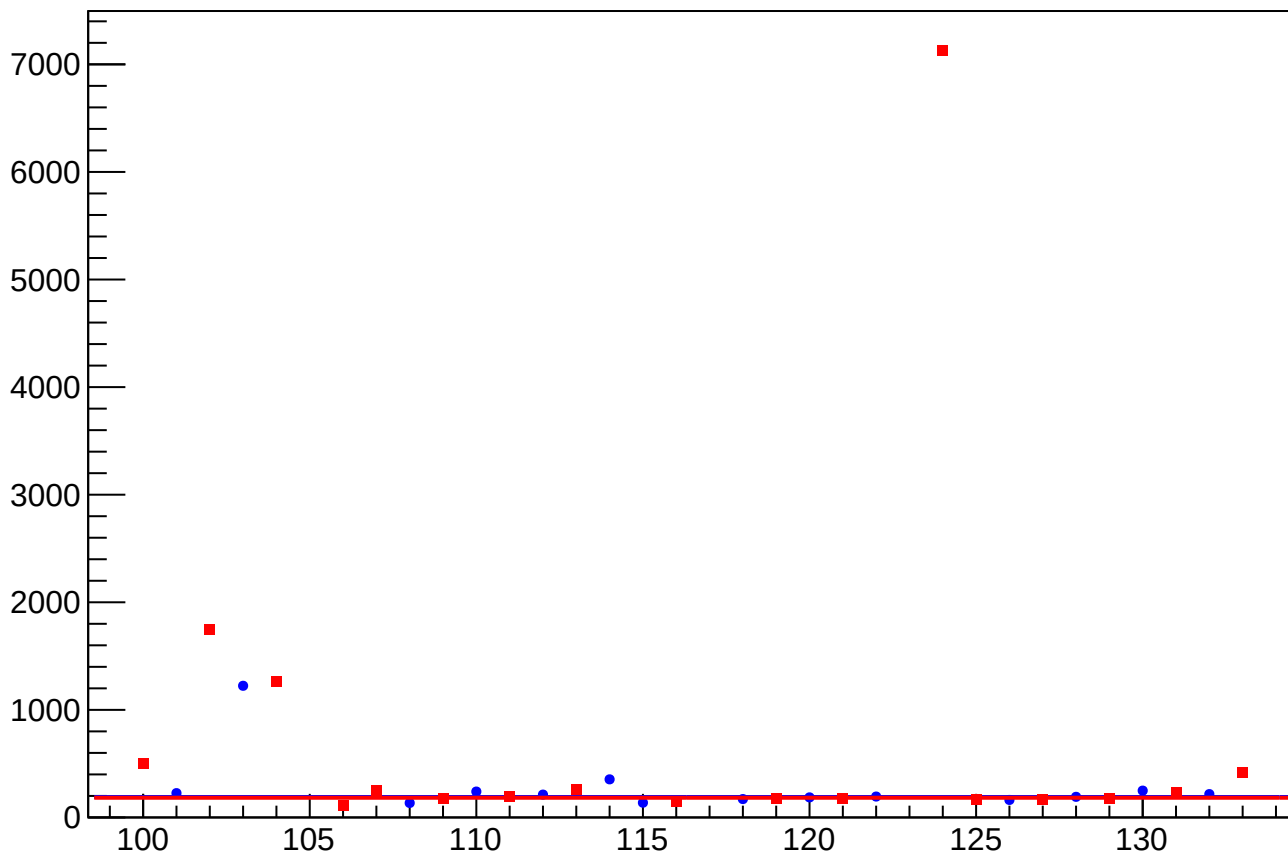
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.023 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 32.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 189.882+/-0.060  $\chi^2/\text{NDF}$ : 1247380.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 183.215+/-0.058  $\chi^2/\text{NDF}$ : 2414378.8/16

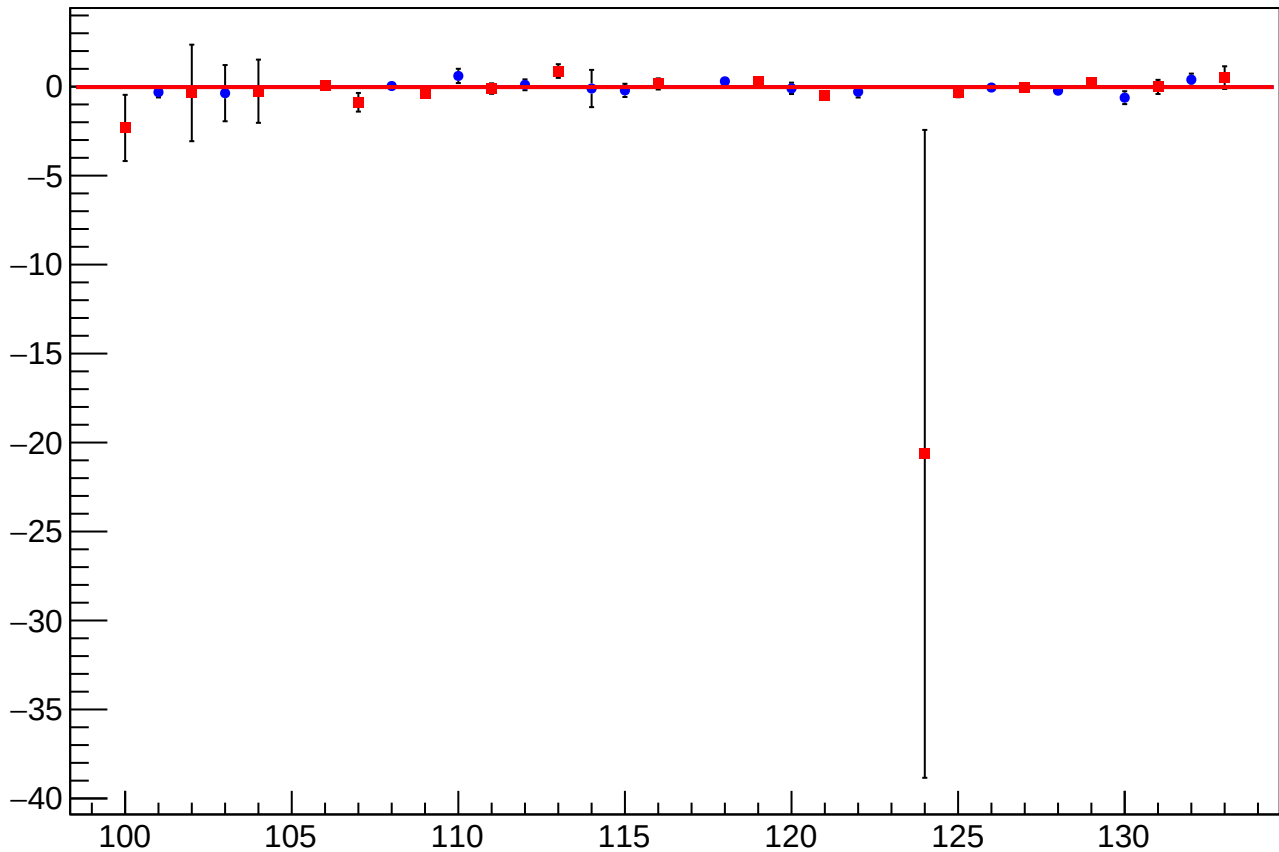
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 186.462+/-0.042  $\chi^2/\text{NDF}$ : 3668115.8/30

- 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:  $-0.022 \pm 0.085$   $\chi^2/\text{NDF}$ : 11.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.024 \pm 0.083$   $\chi^2/\text{NDF}$ : 20.9/16

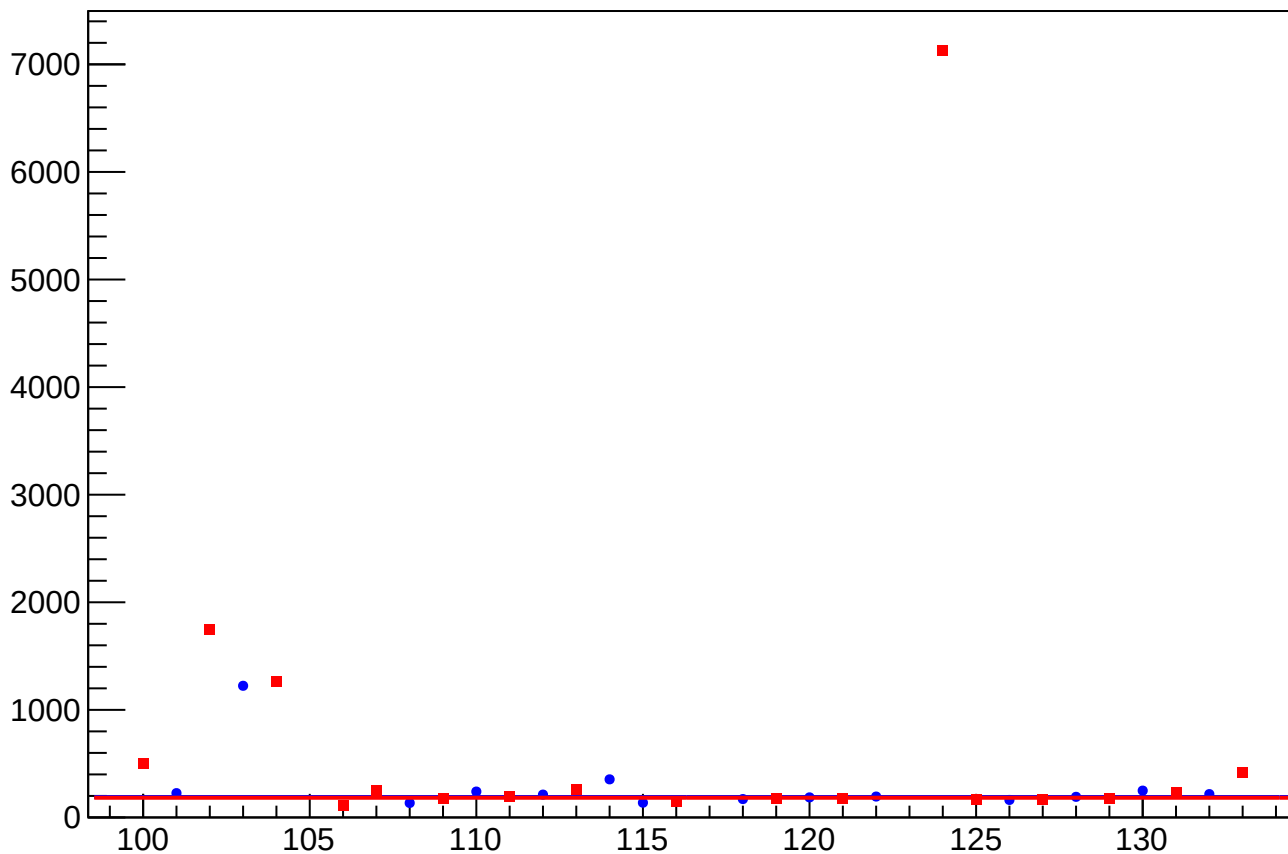
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.023 \pm 0.059$   $\chi^2/\text{NDF}$ : 32.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 189.882+/-0.060  $\chi^2/\text{NDF}$ : 1247380.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 183.215+/-0.058  $\chi^2/\text{NDF}$ : 2414378.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

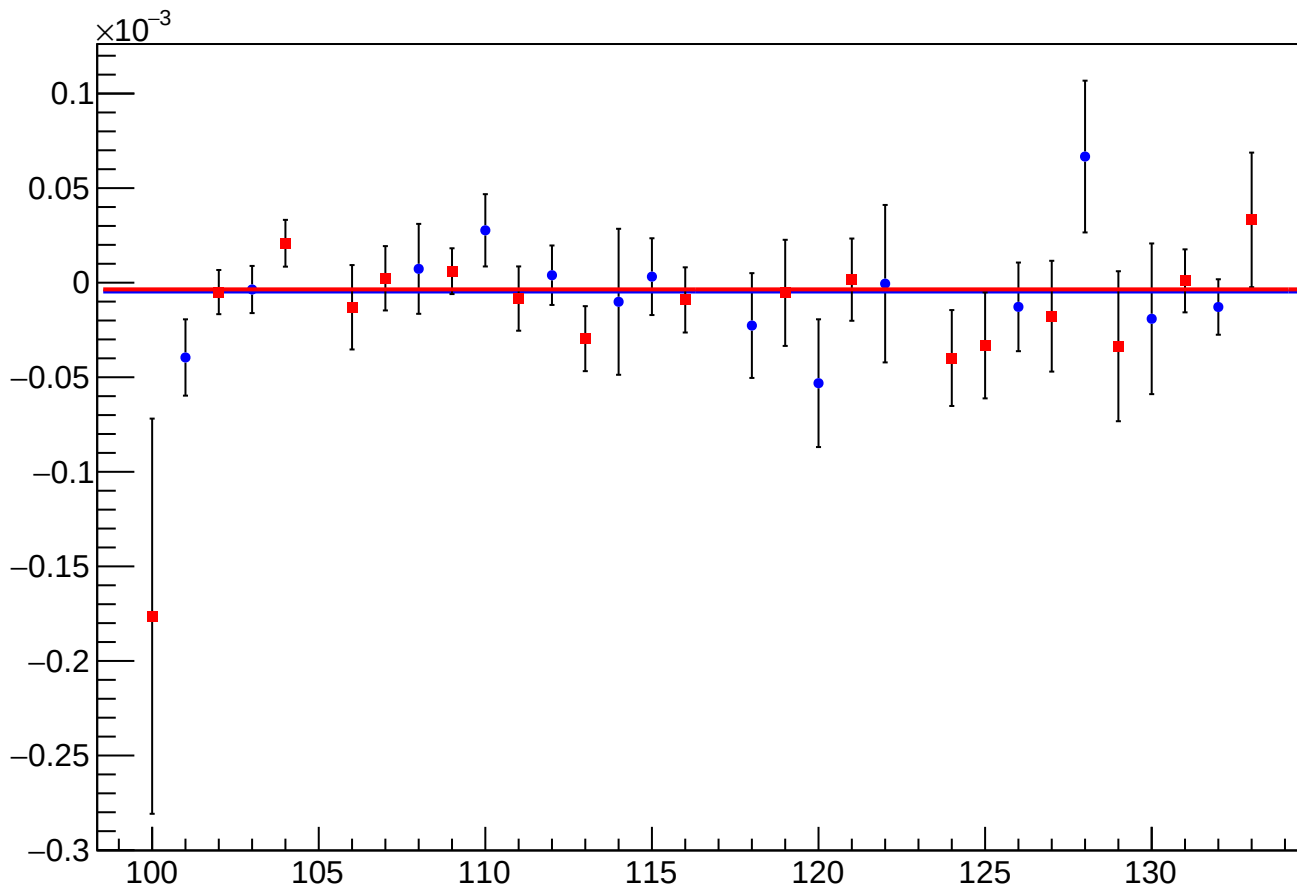
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 186.462+/-0.042  $\chi^2/\text{NDF}$ : 3668115.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl1r2\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.2/16

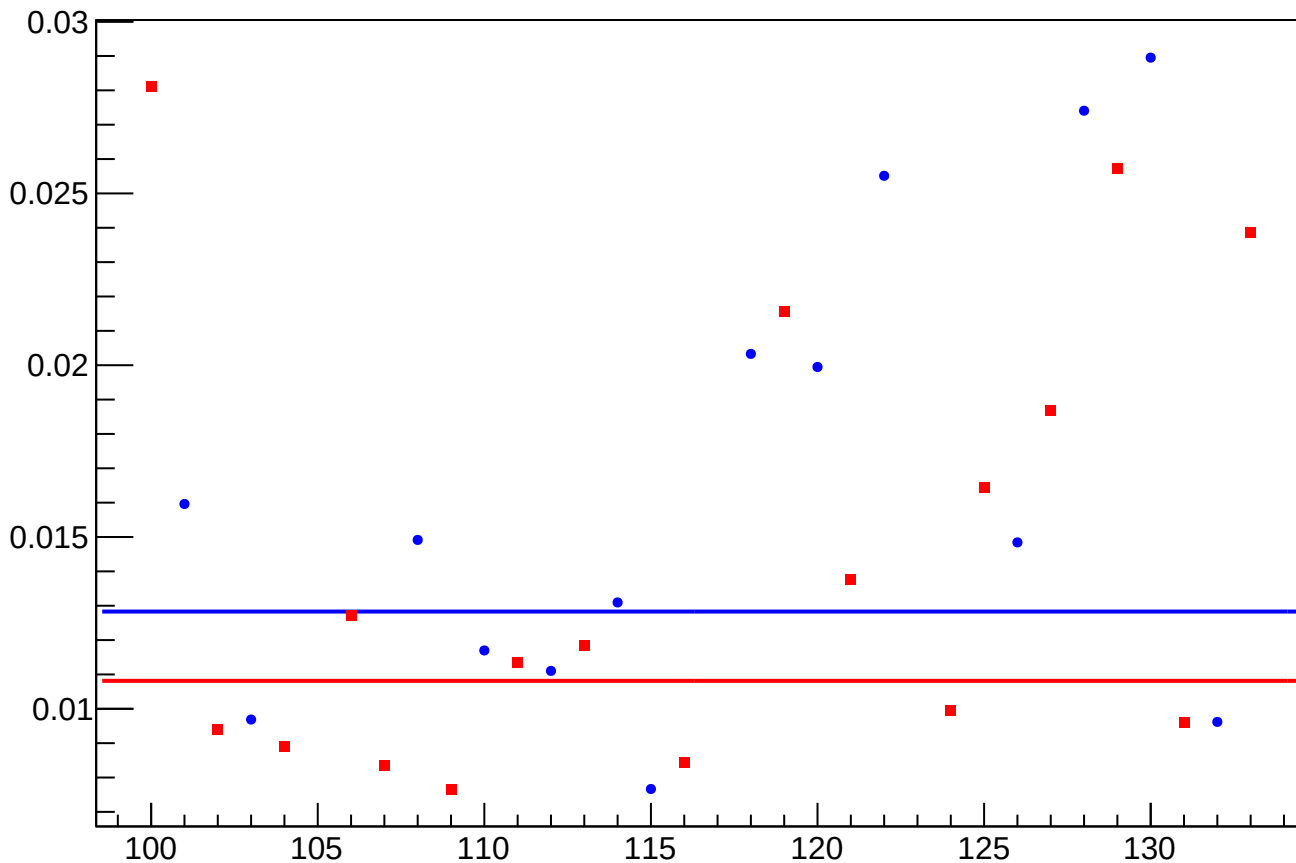
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 28.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.013 $\pm$ 0.000  $\chi^2$ /NDF: 1474568.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 1492720.1/16

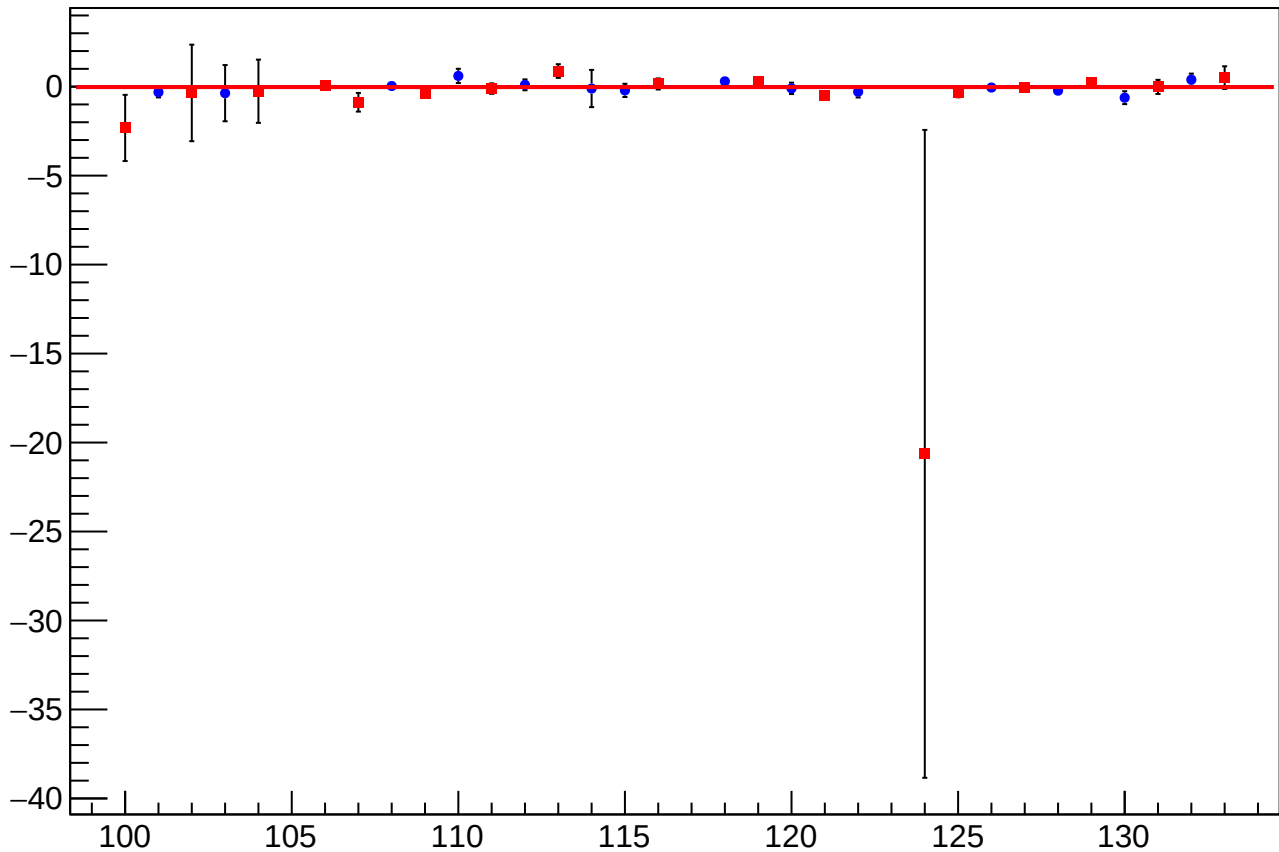
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 3121541.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.022 $\pm$ 0.085  $\chi^2$ /NDF: 11.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.024 $\pm$ 0.083  $\chi^2$ /NDF: 20.9/16

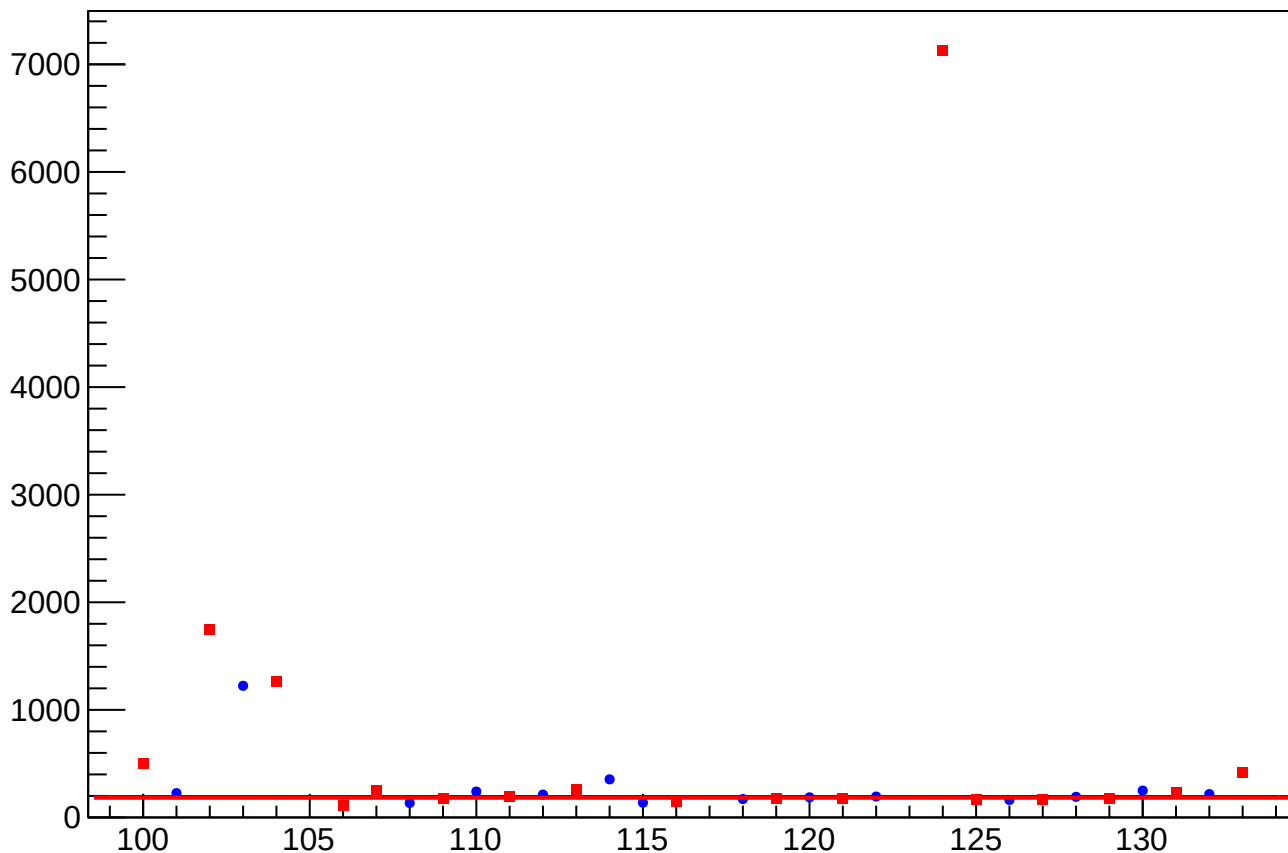
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.023 $\pm$ 0.059  $\chi^2$ /NDF: 32.2/30

- 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: 189.880+/-0.060  $\chi^2/\text{NDF}$ : 1247365.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 183.212+/-0.058  $\chi^2/\text{NDF}$ : 2414396.3/16

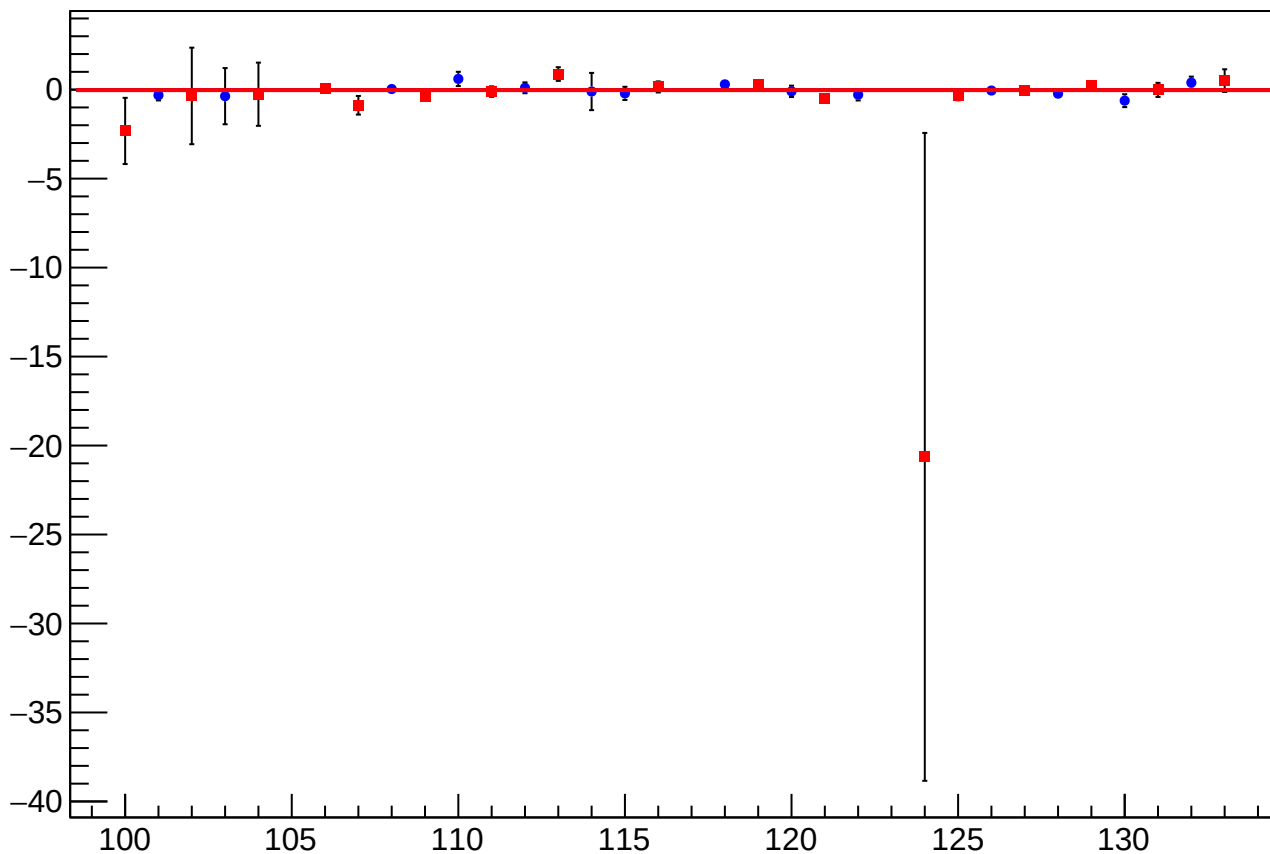
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 186.460+/-0.042  $\chi^2/\text{NDF}$ : 3668119.3/30

- 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:  $-0.022 \pm 0.085$   $\chi^2/\text{NDF}$ : 11.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.024 \pm 0.083$   $\chi^2/\text{NDF}$ : 20.9/16

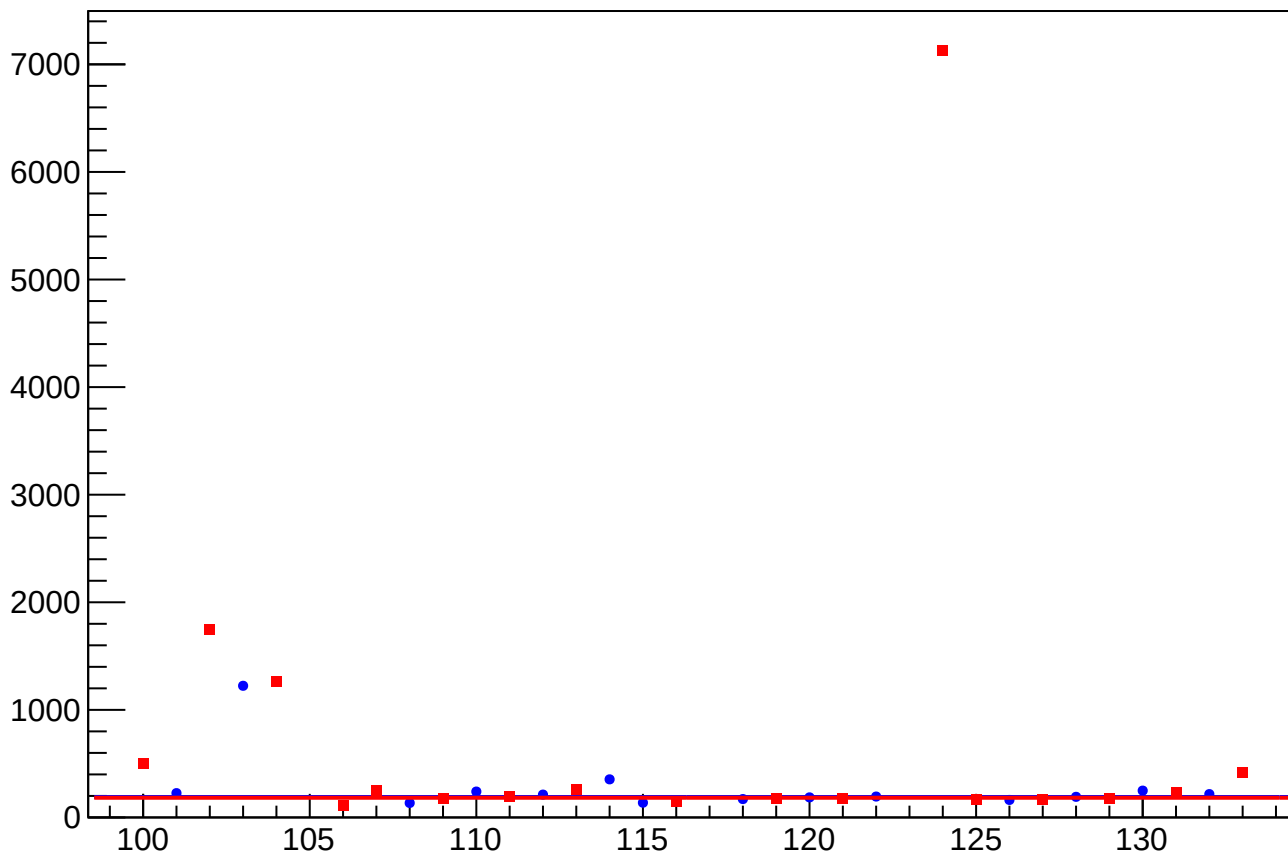
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.023 \pm 0.059$   $\chi^2/\text{NDF}$ : 32.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 189.880+/-0.060  $\chi^2/\text{NDF}$ : 1247365.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 183.212+/-0.058  $\chi^2/\text{NDF}$ : 2414396.3/16

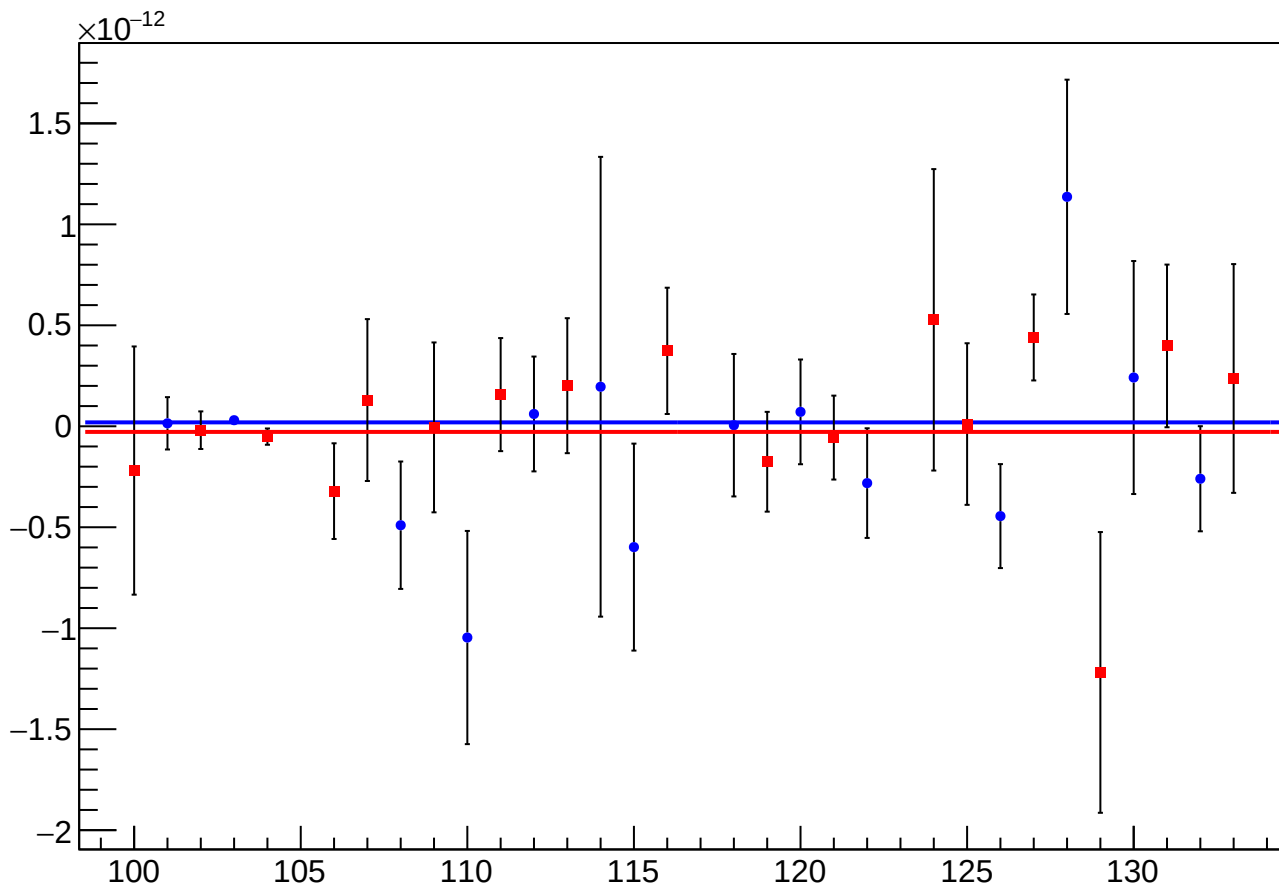
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 186.460+/-0.042  $\chi^2/\text{NDF}$ : 3668119.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.7/16

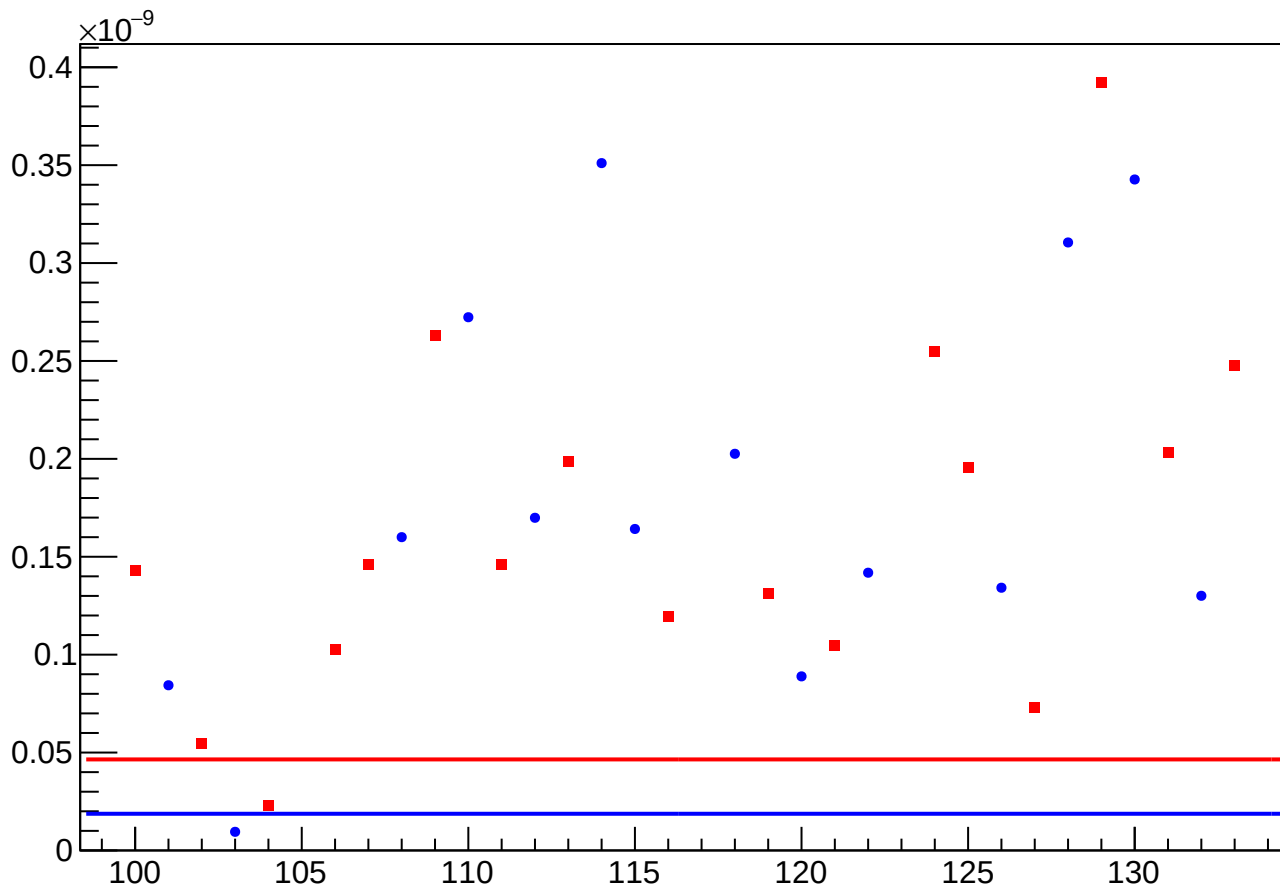
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 34.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5616415.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4181726.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

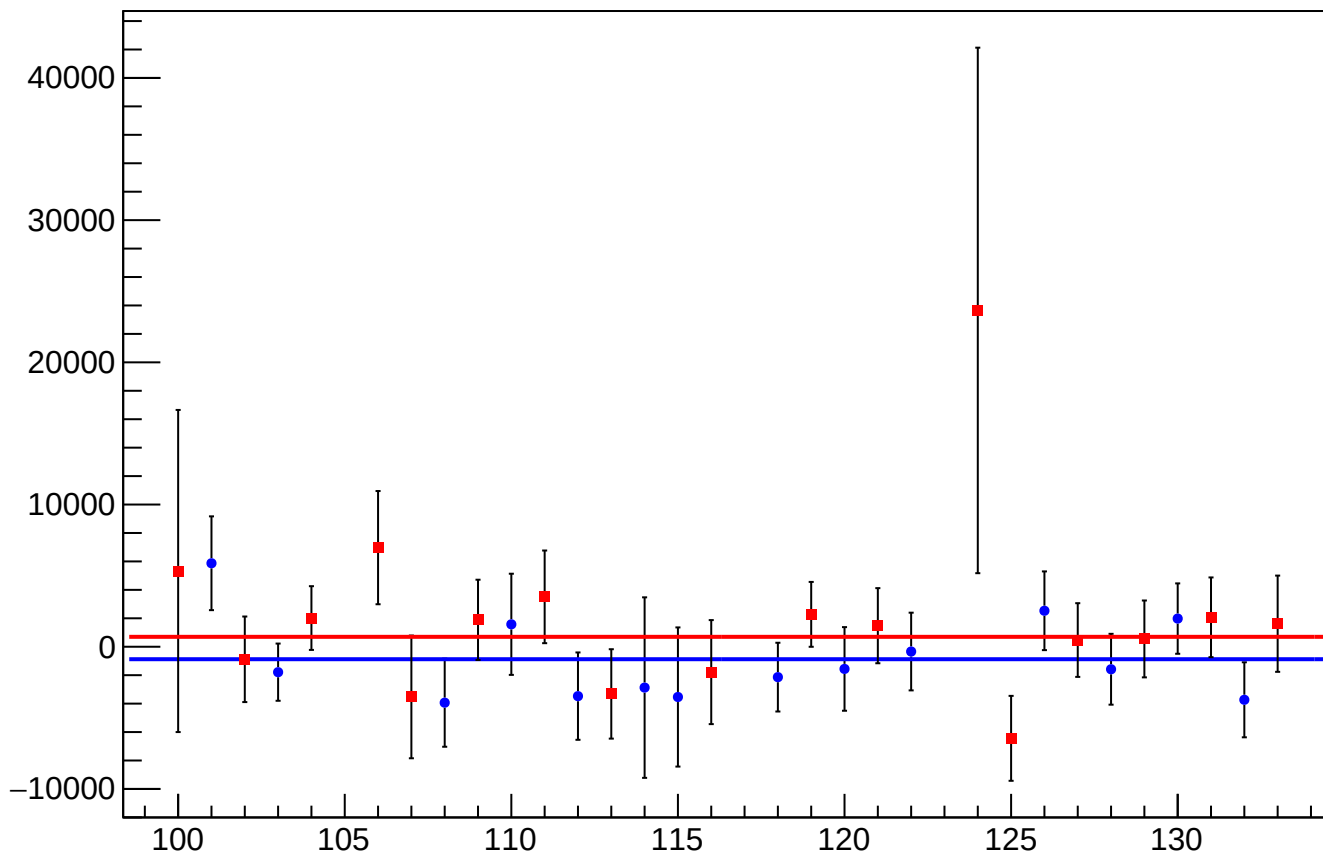
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10757083.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl1r2\_dd\_mean vs Slug



Right In:  $-877.008 \pm 763.775$   $\chi^2/\text{NDF}$ : 11.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $697.182 \pm 749.364$   $\chi^2/\text{NDF}$ : 15.4/16

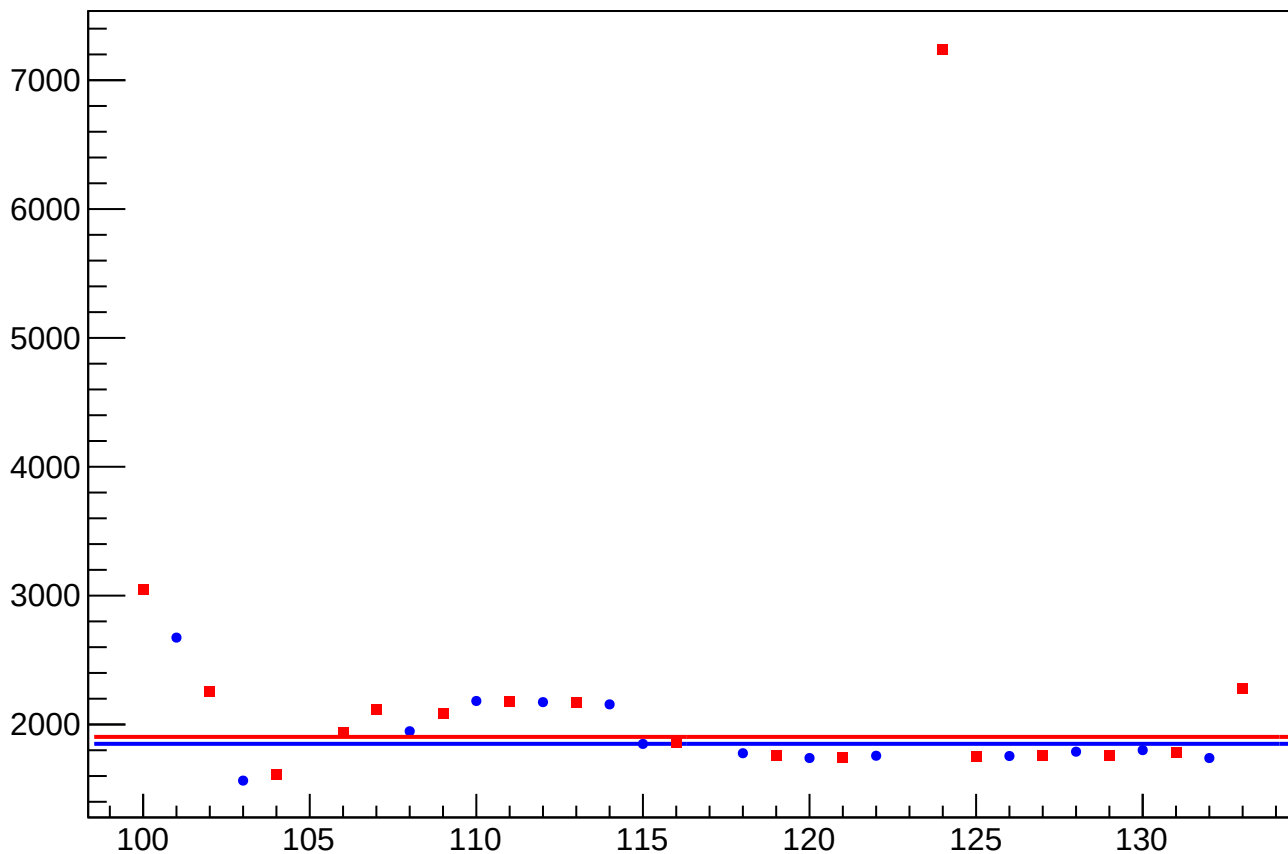
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-74.922 \pm 534.903$   $\chi^2/\text{NDF}$ : 29.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1849.854+/-0.540  $\chi^2/\text{NDF}$ : 226292.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1903.674+/-0.529  $\chi^2/\text{NDF}$ : 352431.5/16

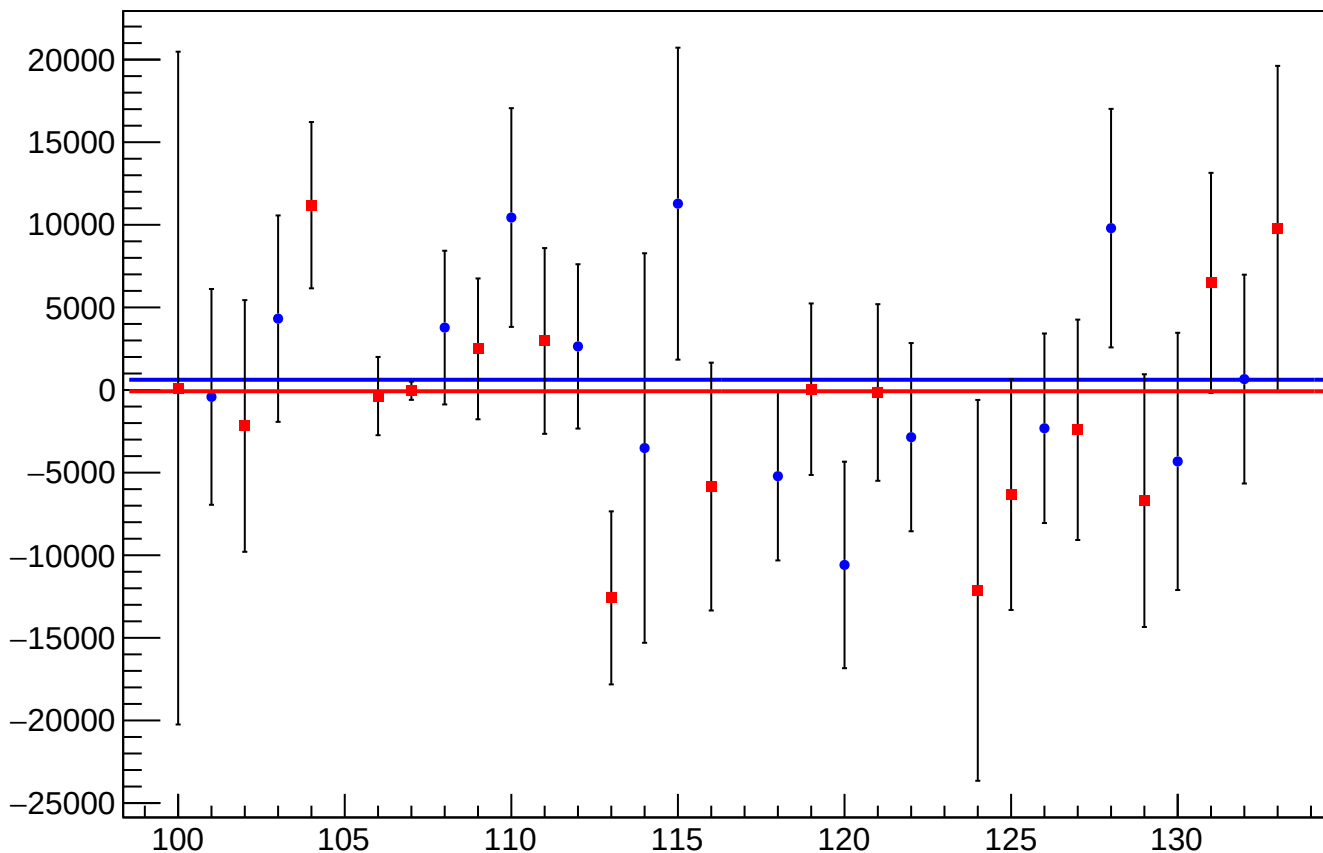
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1877.347+/-0.378  $\chi^2/\text{NDF}$ : 583797.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_reg\_correction\_mean vs Slug



Right In: 621.951+/-1659.936  $\chi^2$ /NDF: 11.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -74.440+/-509.527  $\chi^2$ /NDF: 16.8/16

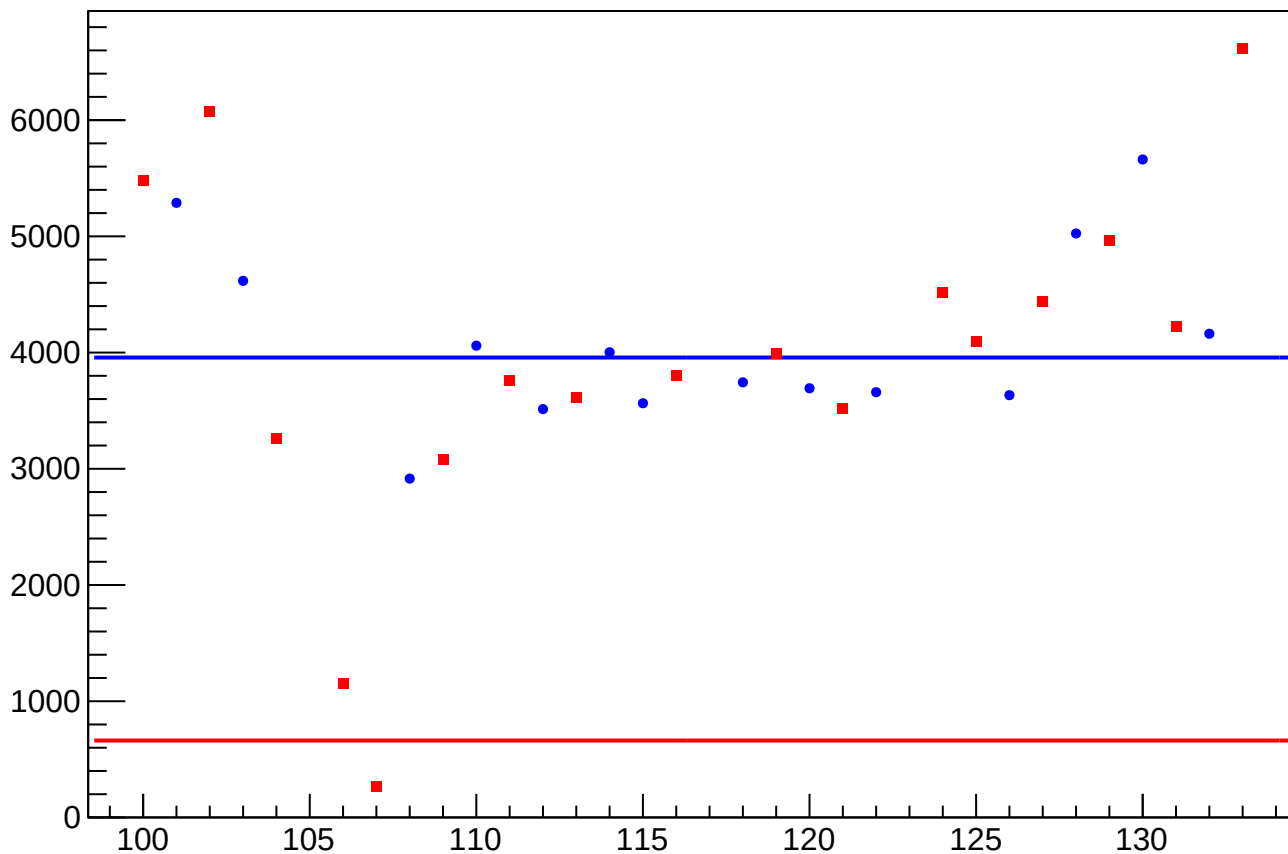
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -14.475+/-487.096  $\chi^2$ /NDF: 28.7/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_reg\_correction\_rms vs Slug



Right In: 3957.268+/-1.174  $\chi^2/\text{NDF}$ : 386236.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 662.050+/-0.360  $\chi^2/\text{NDF}$ : 9697505.1/16

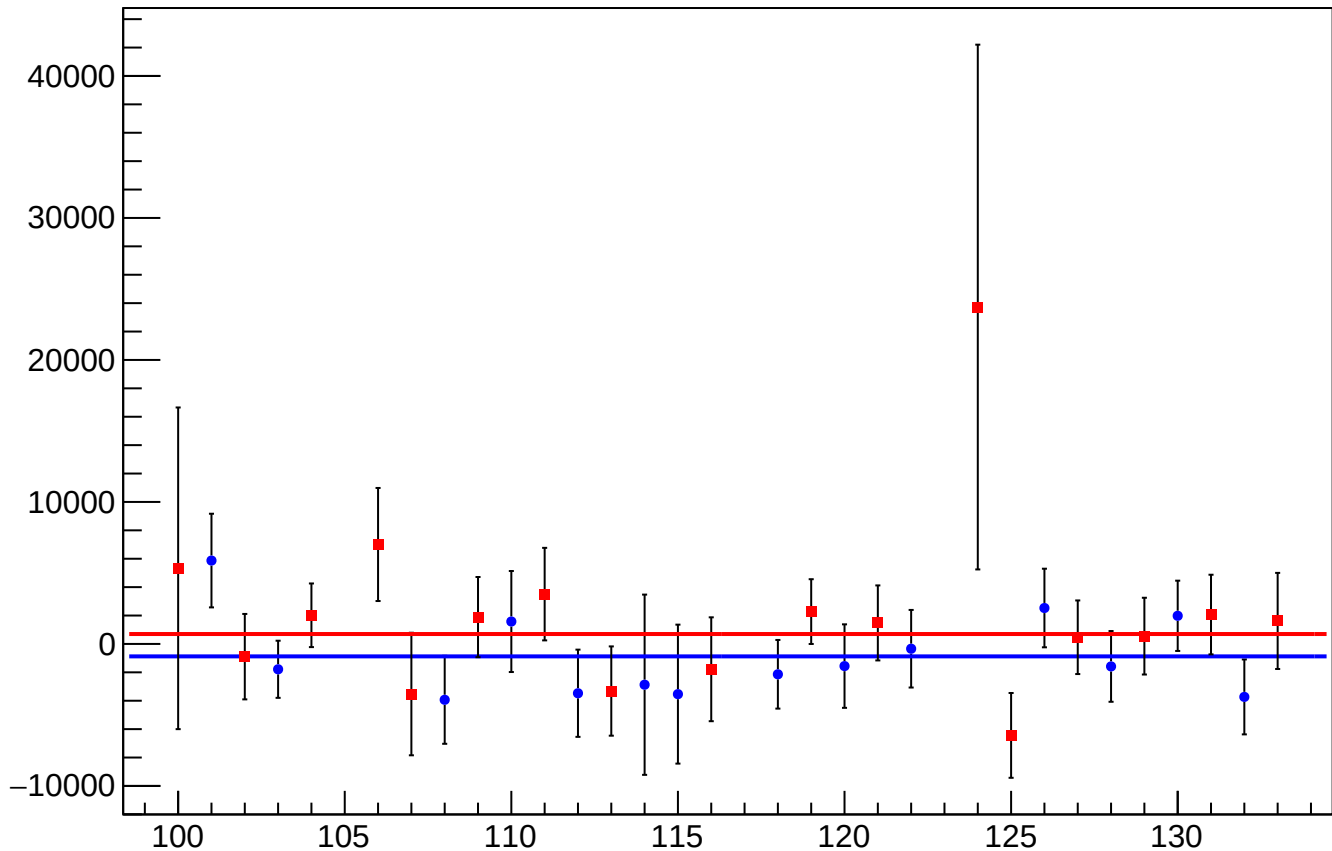
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 945.796+/-0.344  $\chi^2/\text{NDF}$ : 17286688.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -876.465+/-763.775  $\chi^2/\text{NDF}$ : 11.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 697.728+/-749.366  $\chi^2/\text{NDF}$ : 15.4/16

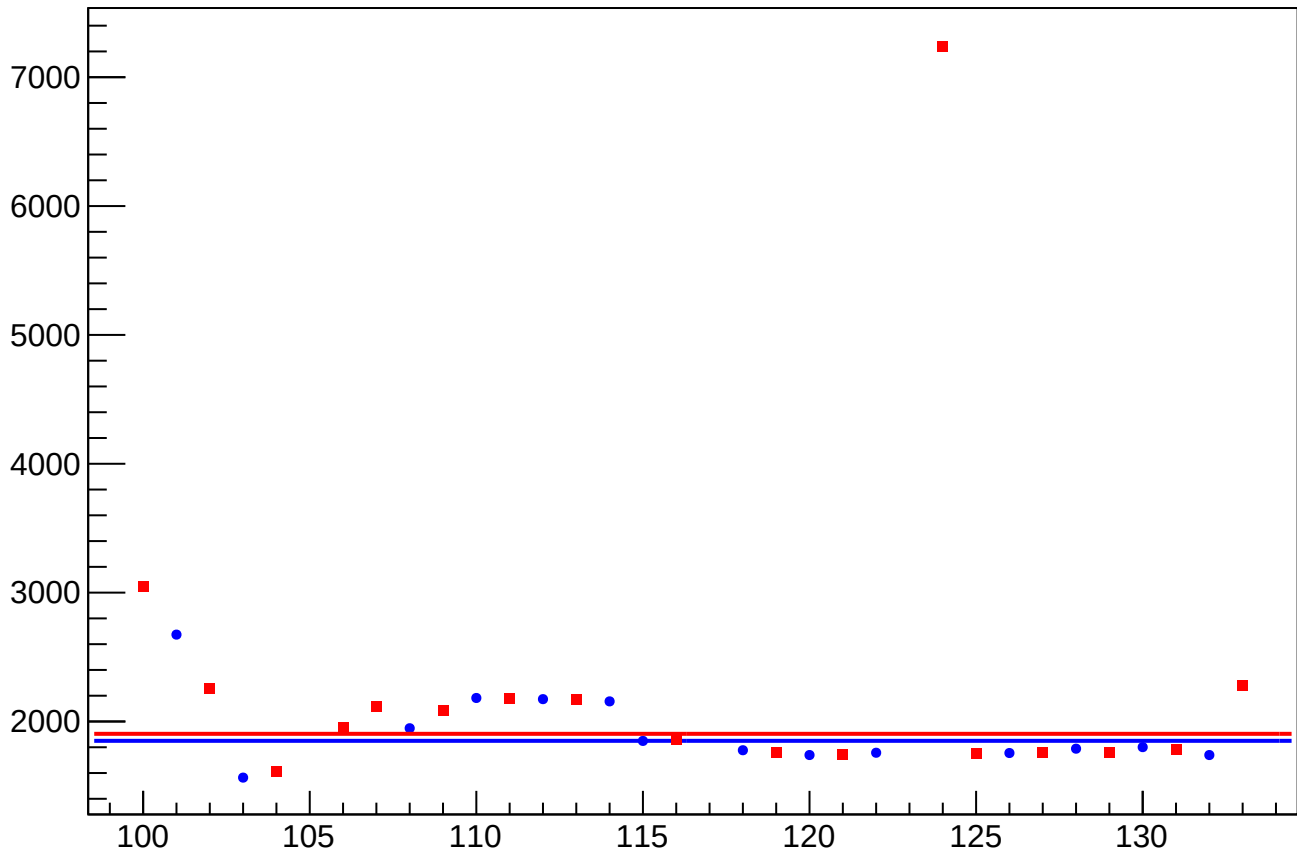
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -74.380+/-534.903  $\chi^2/\text{NDF}$ : 29.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1849.855+/-0.540  $\chi^2/\text{NDF}$ : 226292.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1904.197+/-0.529  $\chi^2/\text{NDF}$ : 352598.5/16

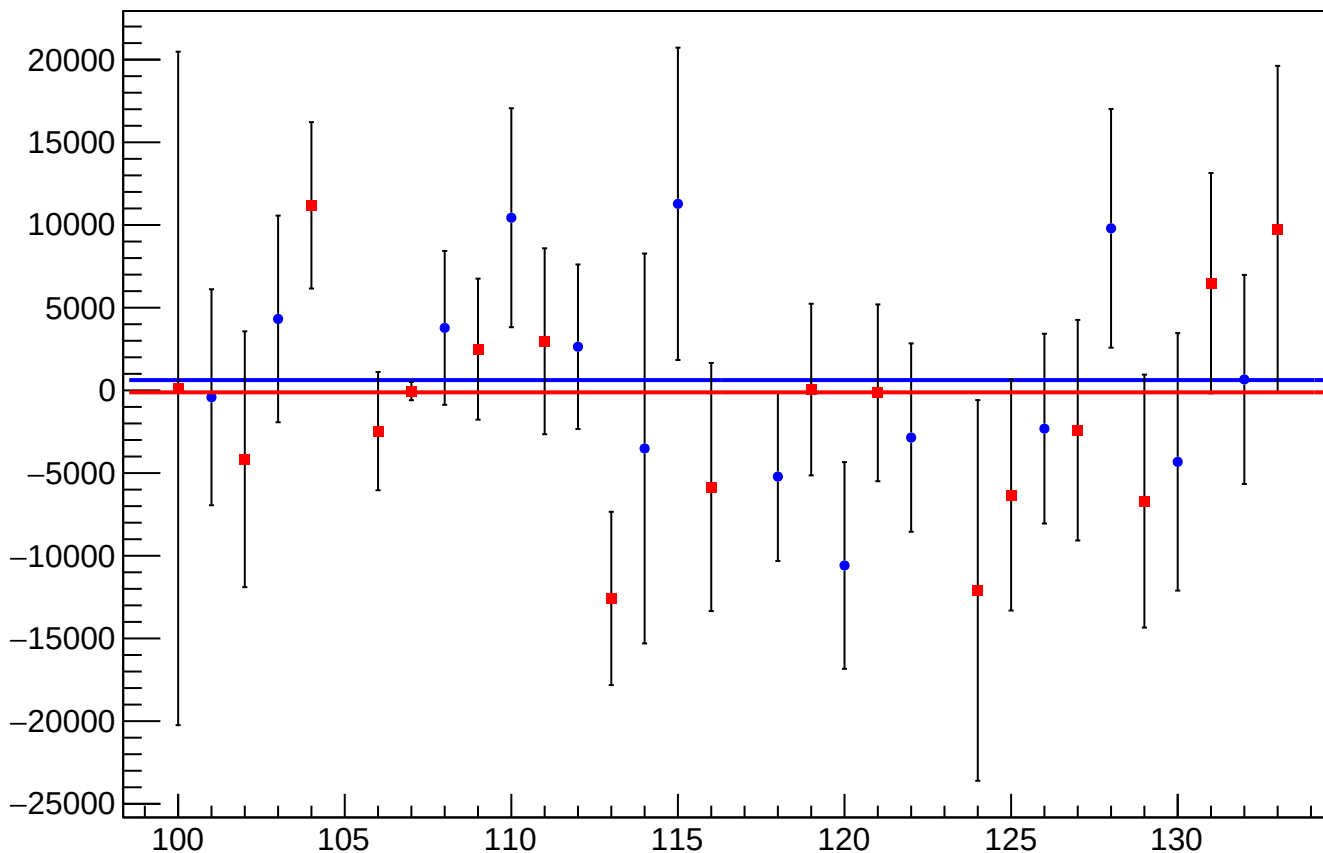
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1877.607+/-0.378  $\chi^2/\text{NDF}$ : 584061.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_cor\_correction\_mean vs Slug



Right In: 621.925 $\pm$ 1659.945  $\chi^2$ /NDF: 11.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -118.378 $\pm$ 516.276  $\chi^2$ /NDF: 17.4/16

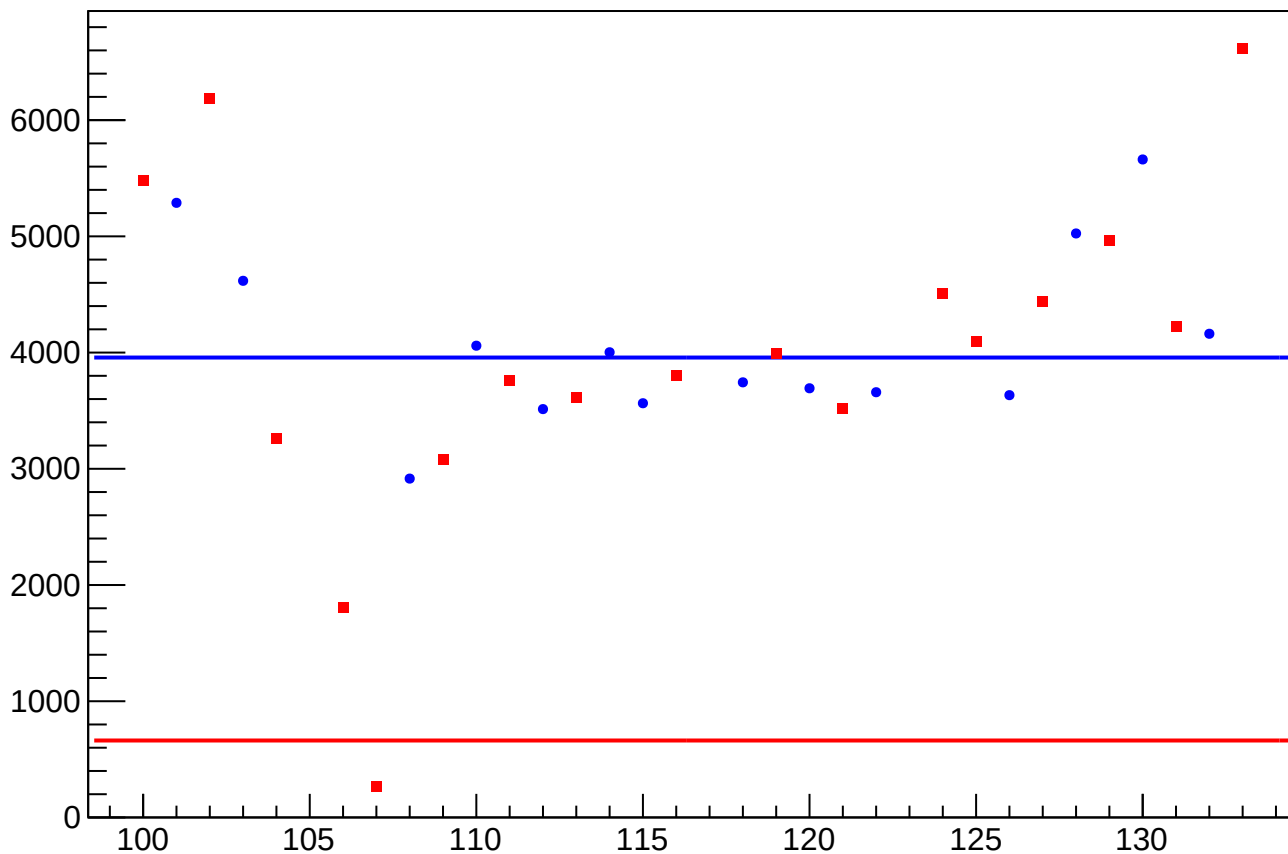
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -53.083 $\pm$ 492.982  $\chi^2$ /NDF: 29.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_cor\_correction\_rms vs Slug



Right In: 3957.281+/-1.174  $\chi^2/\text{NDF}$ : 386258.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 662.176+/-0.365  $\chi^2/\text{NDF}$ : 9826517.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

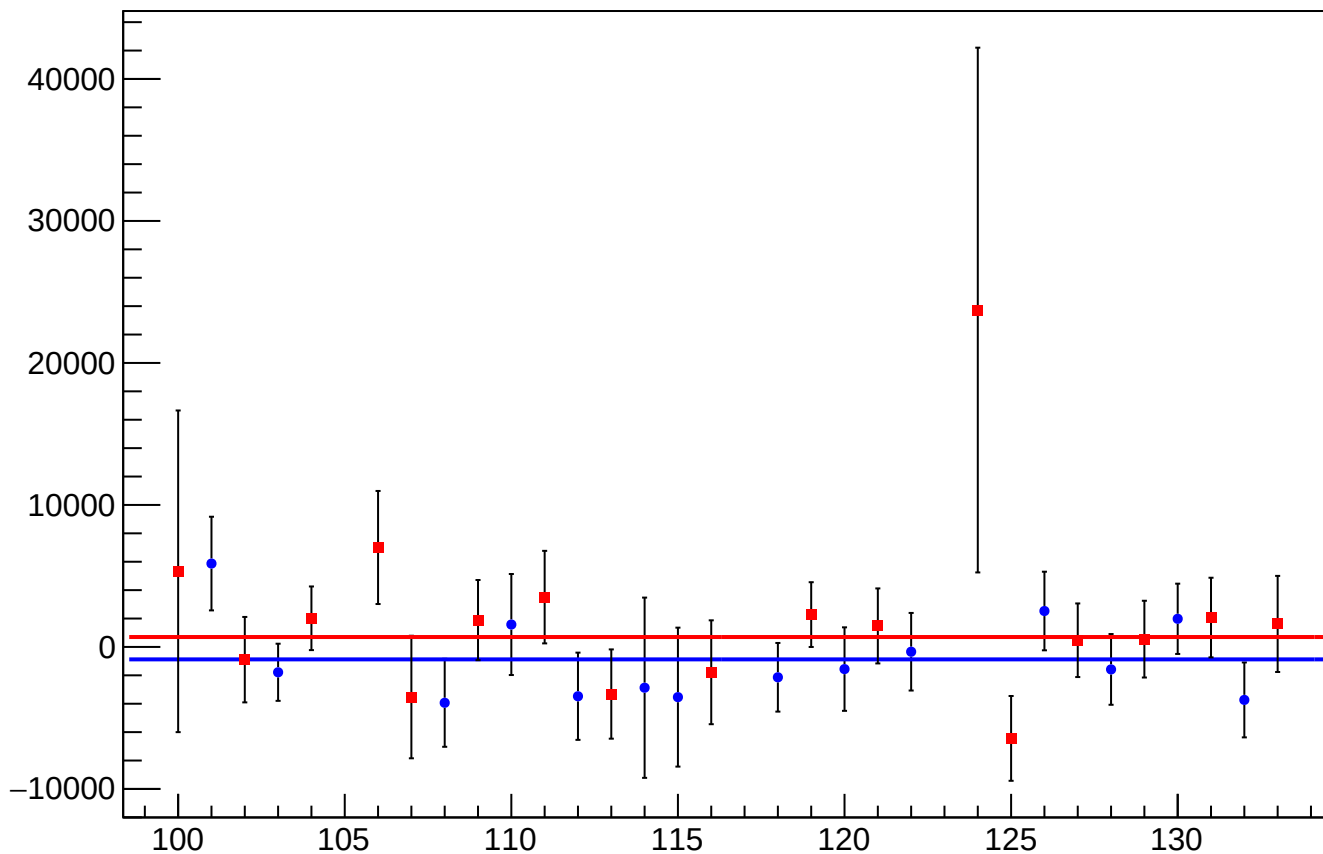
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 952.808+/-0.349  $\chi^2/\text{NDF}$ : 17398664.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -876.465+/-763.775  $\chi^2/\text{NDF}$ : 11.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 697.728+/-749.366  $\chi^2/\text{NDF}$ : 15.4/16

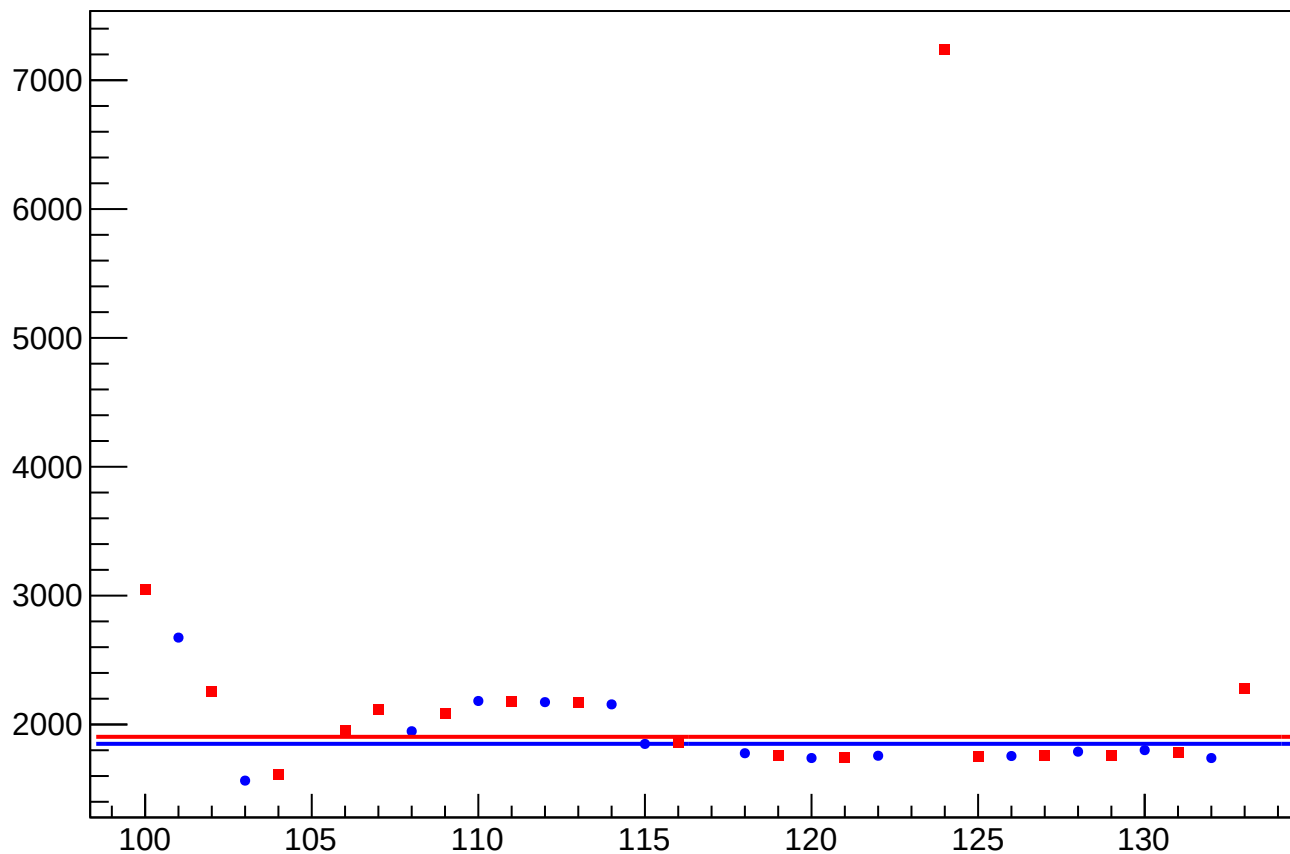
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -74.380+/-534.903  $\chi^2/\text{NDF}$ : 29.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1849.855+/-0.540  $\chi^2/\text{NDF}$ : 226292.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1904.197+/-0.529  $\chi^2/\text{NDF}$ : 352598.5/16

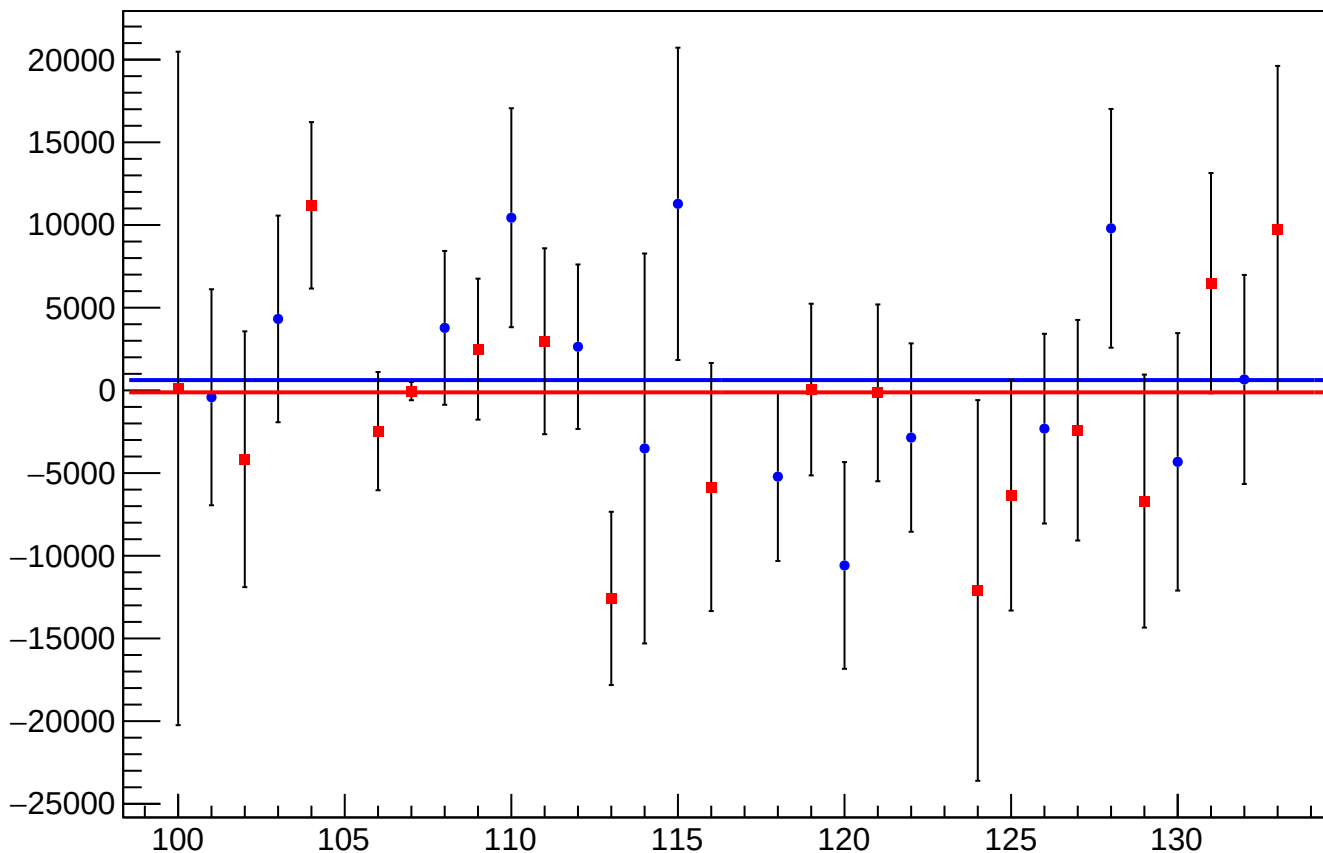
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1877.607+/-0.378  $\chi^2/\text{NDF}$ : 584061.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 621.925 $\pm$ 1659.945  $\chi^2/\text{NDF}$ : 11.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -118.378 $\pm$ 516.276  $\chi^2/\text{NDF}$ : 17.4/16

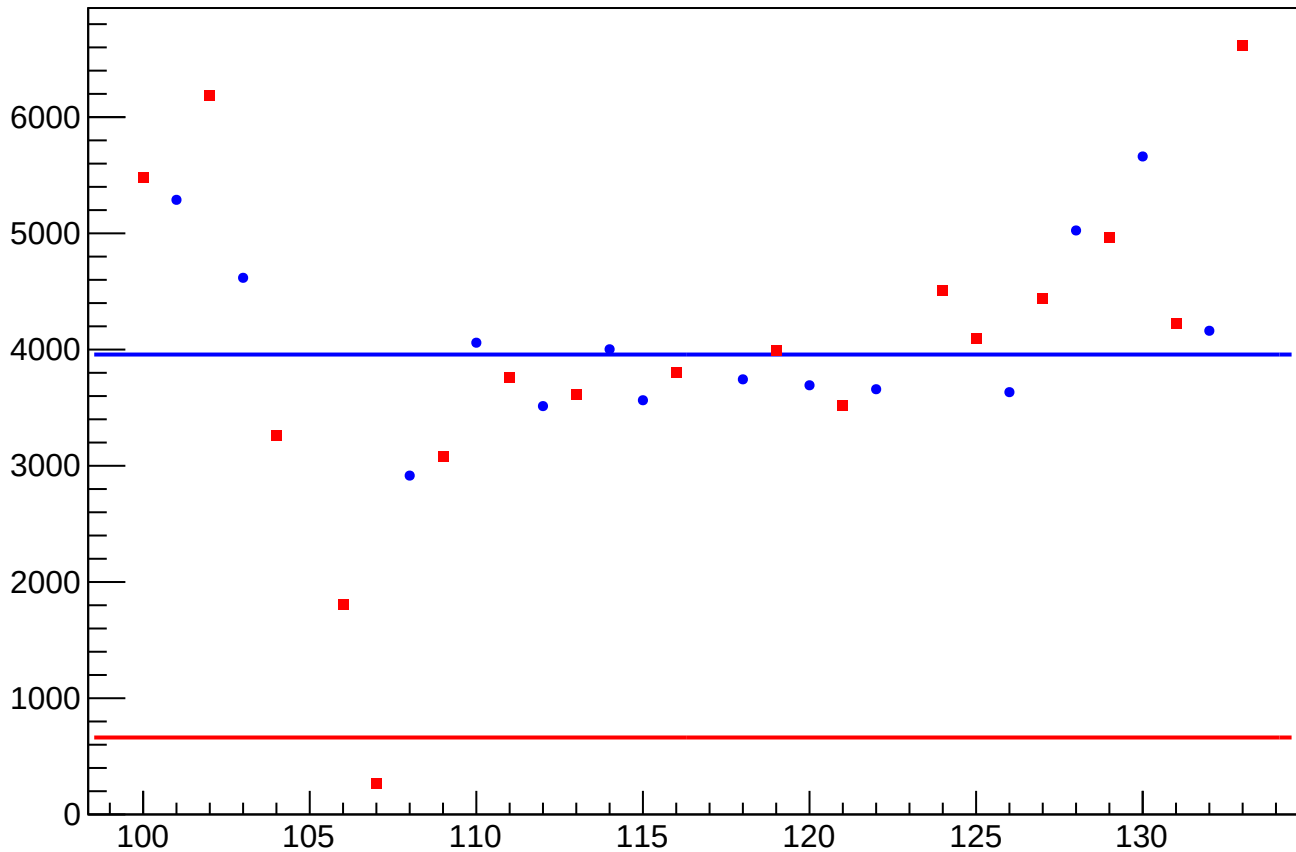
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -53.083 $\pm$ 492.982  $\chi^2/\text{NDF}$ : 29.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3957.281+/-1.174  $\chi^2/\text{NDF}$ : 386258.9/13

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

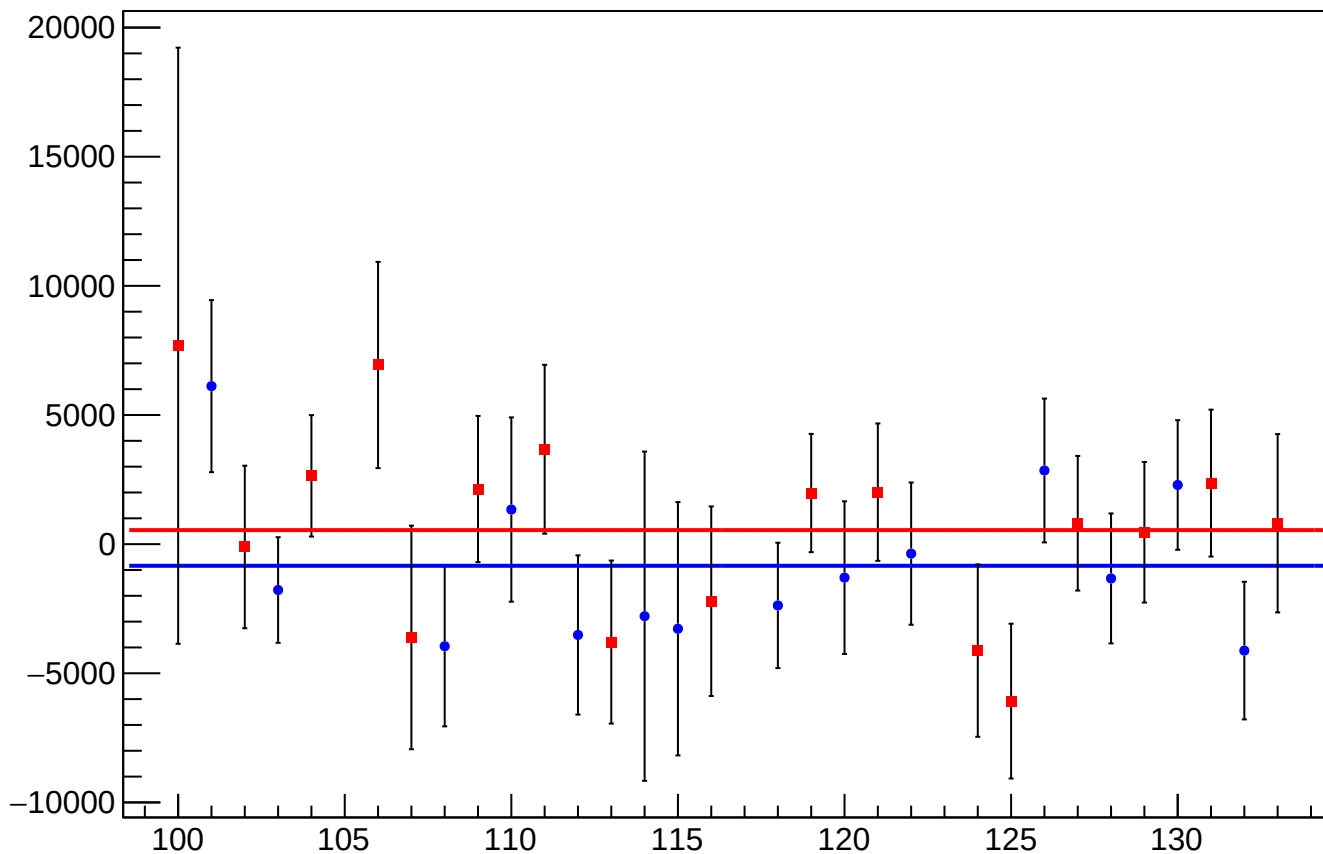
Right Out: 662.176+/-0.365  $\chi^2/\text{NDF}$ : 9826517.1/16

All: 952.808+/-0.349  $\chi^2/\text{NDF}$ : 17398664.1/30

- 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\_dd\_mean vs Slug



Right In: -837.672+/-770.096  $\chi^2/\text{NDF}$ : 12.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 543.047+/-740.935  $\chi^2/\text{NDF}$ : 16.4/16

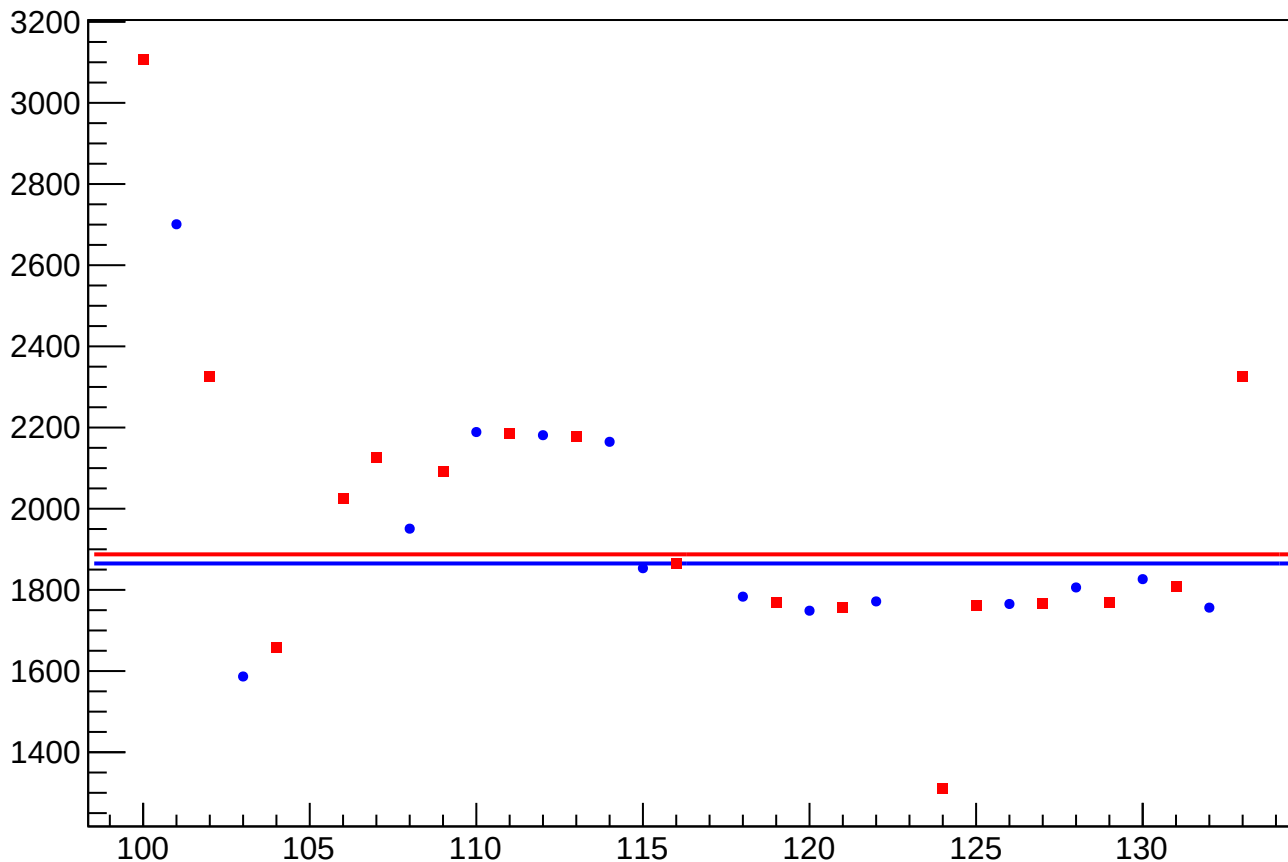
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -120.676+/-533.932  $\chi^2/\text{NDF}$ : 30.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1865.071+/-0.545  $\chi^2/\text{NDF}$ : 221594.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1887.546+/-0.523  $\chi^2/\text{NDF}$ : 248487.5/16

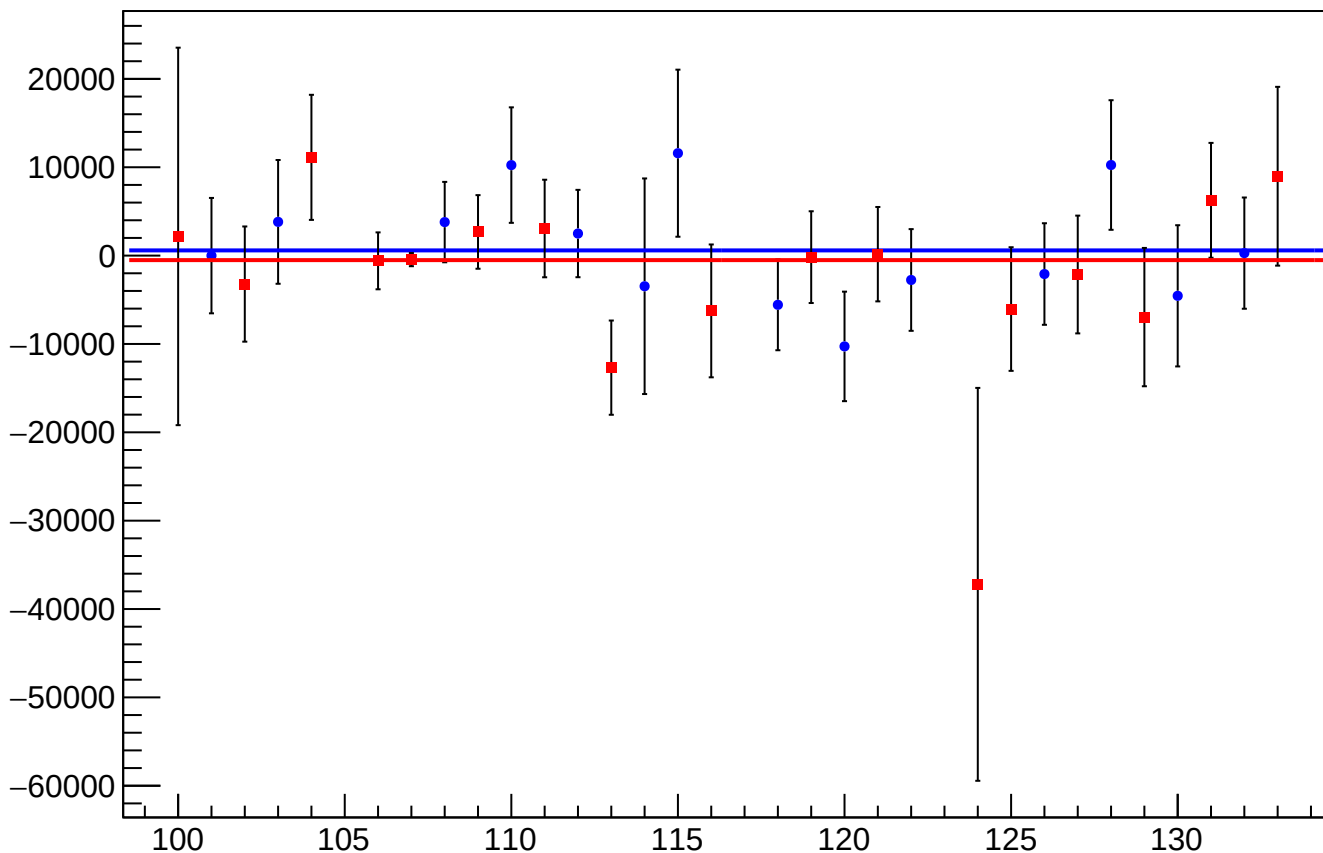
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1876.753+/-0.377  $\chi^2/\text{NDF}$ : 470967.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_dit\_correction\_mean vs Slug



Right In: 589.529 $\pm$ 1670.867  $\chi^2/\text{NDF}$ : 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -510.787 $\pm$ 666.581  $\chi^2/\text{NDF}$ : 15.8/16

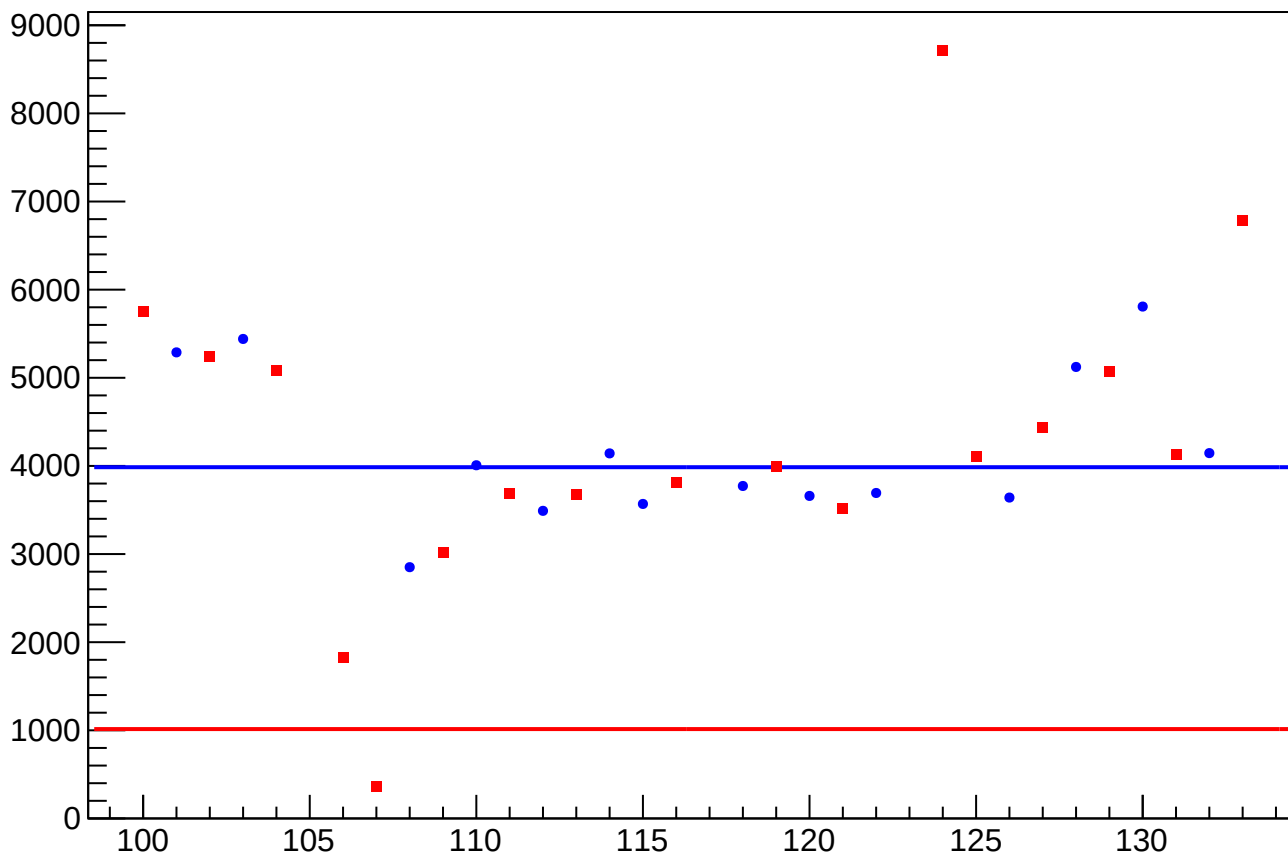
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -359.710 $\pm$ 619.130  $\chi^2/\text{NDF}$ : 27.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_dit\_correction\_rms vs Slug



Right In: 3985.524+/-1.181  $\chi^2/\text{NDF}$ : 489352.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1014.142+/-0.471  $\chi^2/\text{NDF}$ : 8843680.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

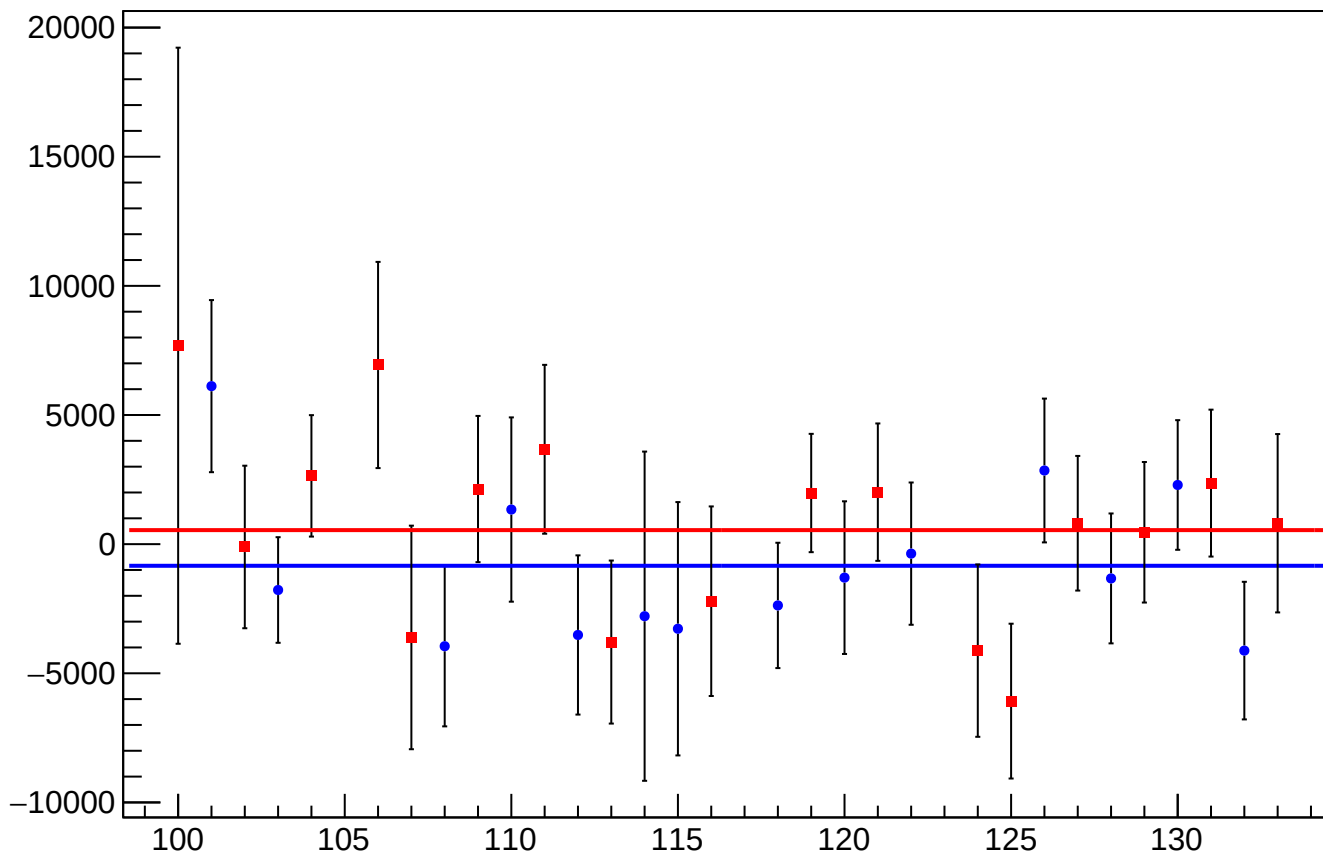
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1422.122+/-0.438  $\chi^2/\text{NDF}$ : 14789627.3/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -837.670+/-770.096  $\chi^2/\text{NDF}$ : 12.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 543.051+/-740.935  $\chi^2/\text{NDF}$ : 16.4/16

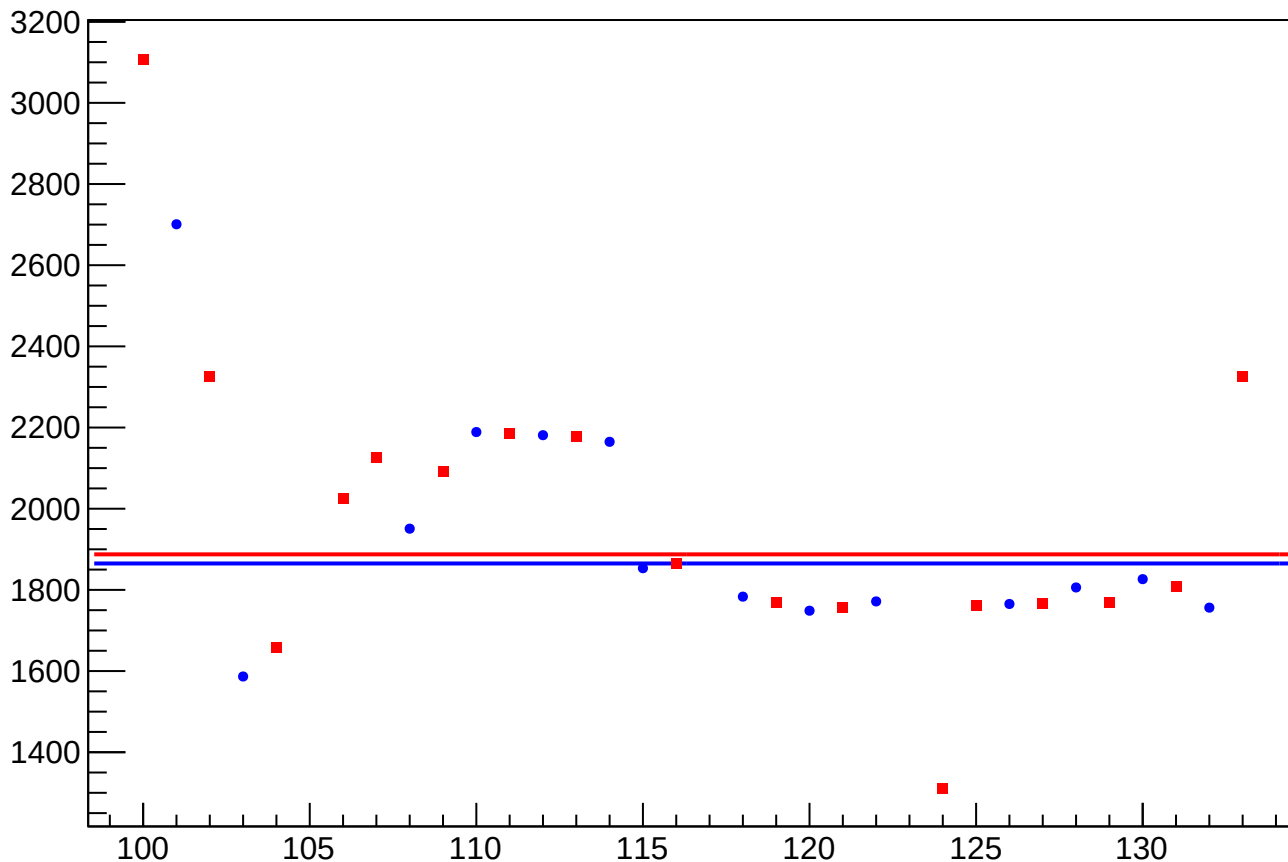
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -120.673+/-533.932  $\chi^2/\text{NDF}$ : 30.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1865.071 $\pm$ 0.545  $\chi^2$ /NDF: 221594.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1887.546 $\pm$ 0.523  $\chi^2$ /NDF: 248487.9/16

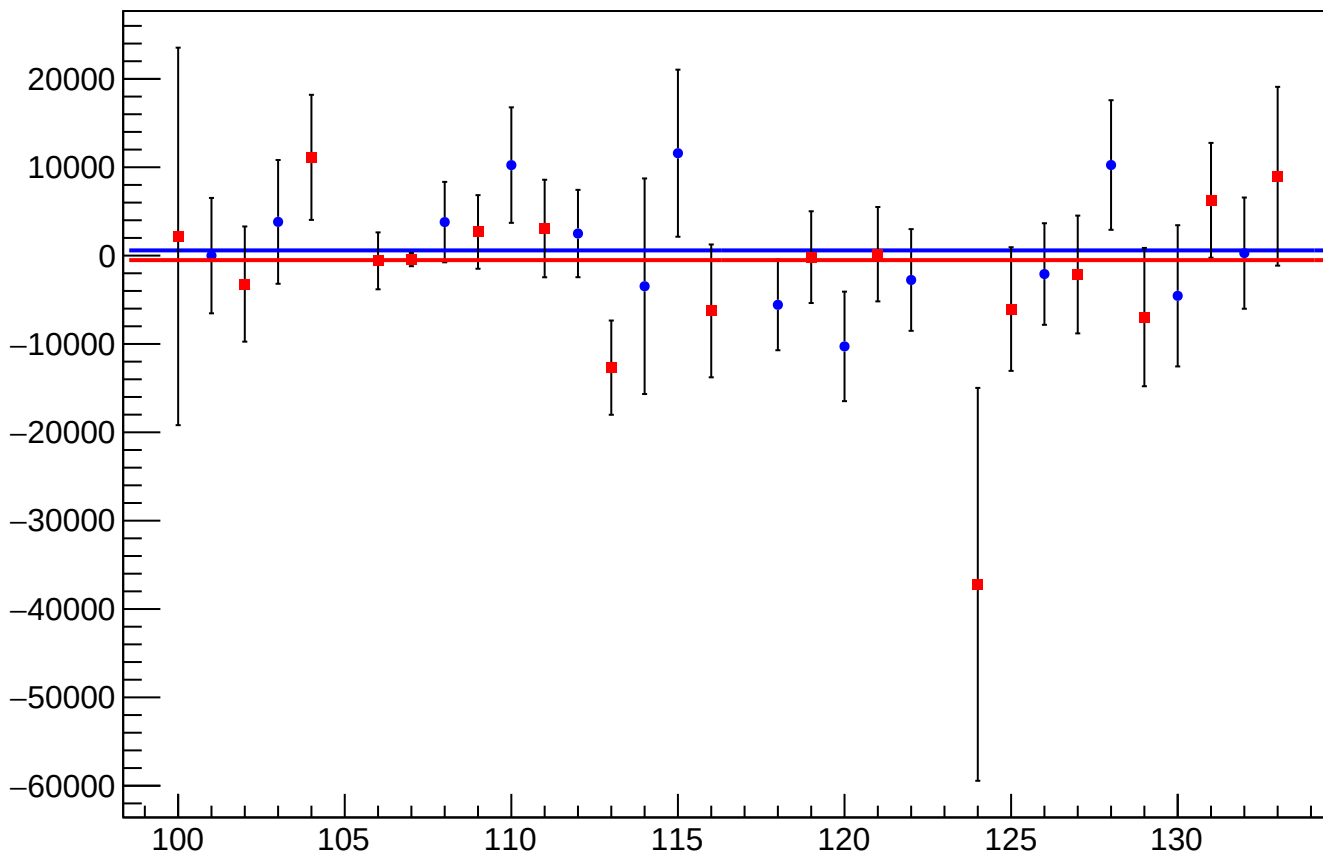
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1876.752 $\pm$ 0.377  $\chi^2$ /NDF: 470967.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 589.520 $\pm$ 1670.862  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -510.795 $\pm$ 666.592  $\chi^2$ /NDF: 15.8/16

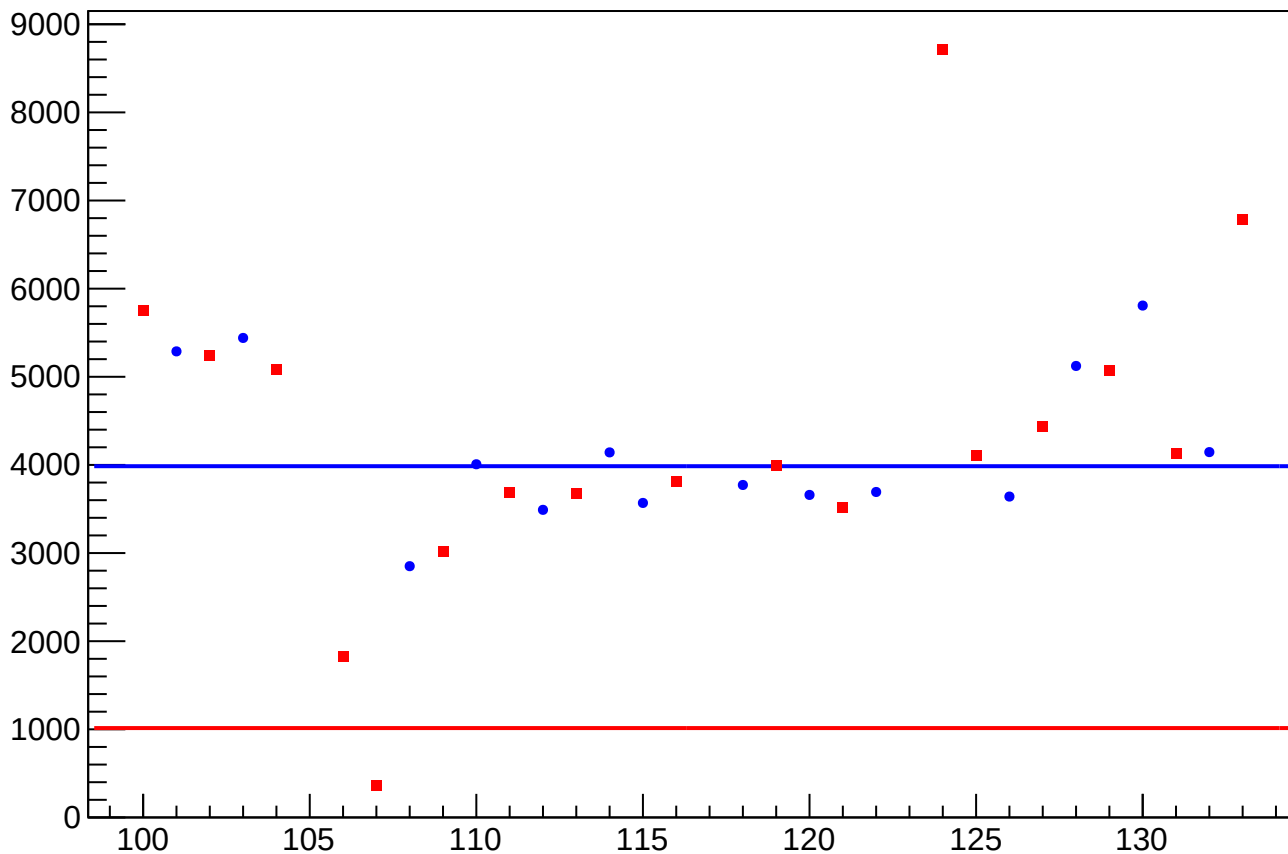
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -359.714 $\pm$ 619.139  $\chi^2$ /NDF: 27.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 3985.514+/-1.181  $\chi^2/\text{NDF}$ : 489350.6/13

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

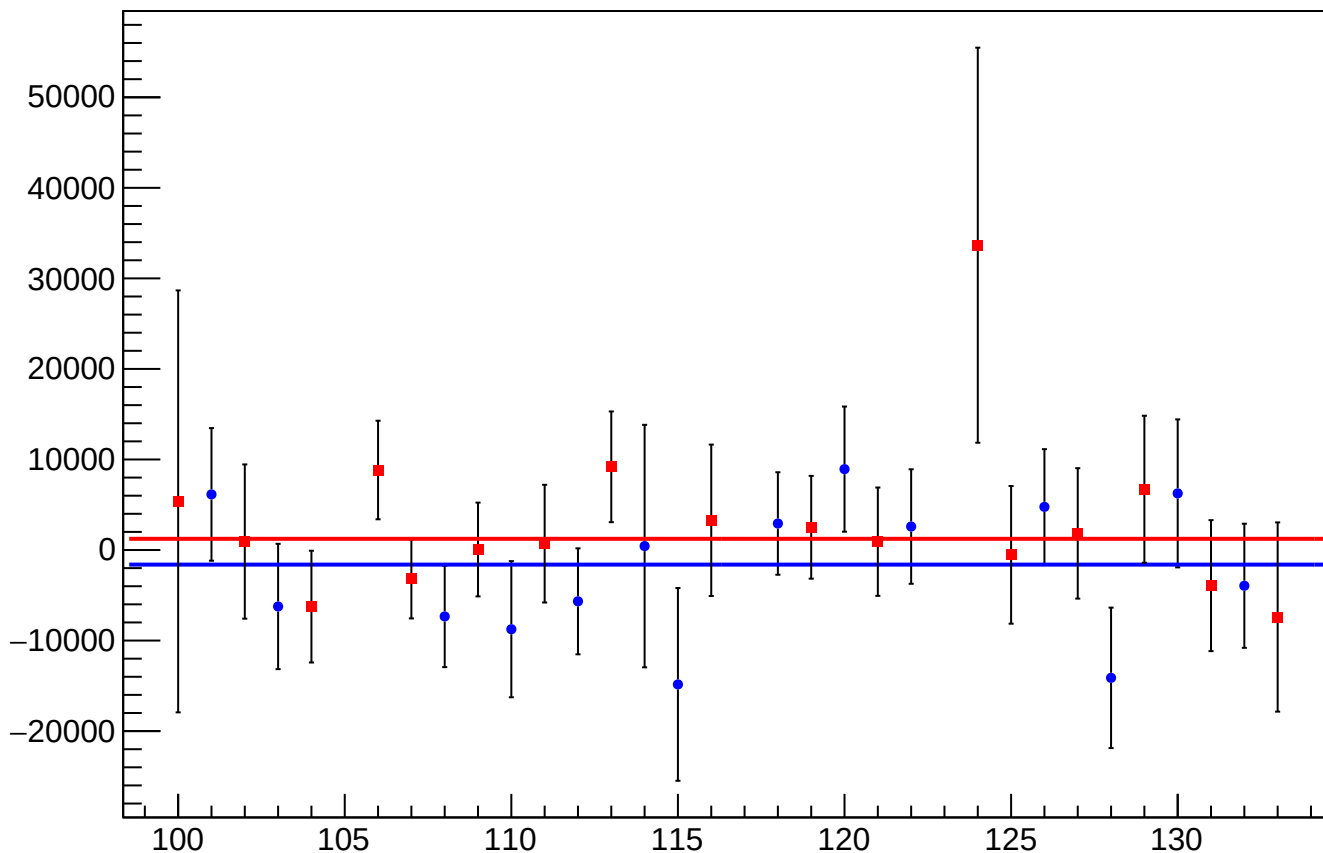
Right Out: 1014.171+/-0.471  $\chi^2/\text{NDF}$ : 8843566.3/16

All: 1422.159+/-0.438  $\chi^2/\text{NDF}$ : 14789364.9/3

- 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

# asym\_atl1r2\_dd\_mean vs Slug



Right In: -1611.026 $\pm$ 1865.454  $\chi^2$ /NDF: 13.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1237.082 $\pm$ 1640.852  $\chi^2$ /NDF: 10.3/16

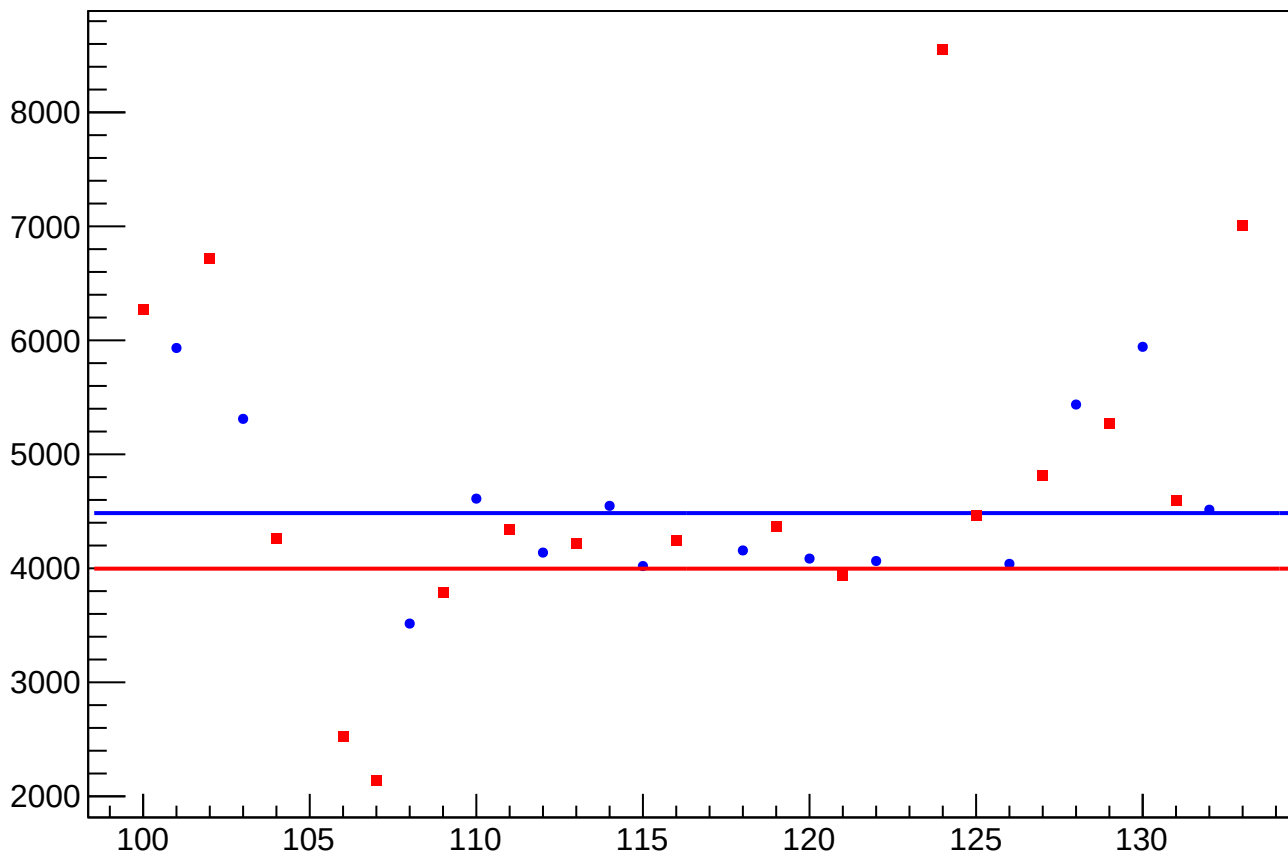
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -5.277 $\pm$ 1232.055  $\chi^2$ /NDF: 25.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_rms vs Slug



Right In: 4484.603+/-1.319  $\chi^2/\text{NDF}$ : 304002.2/13

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

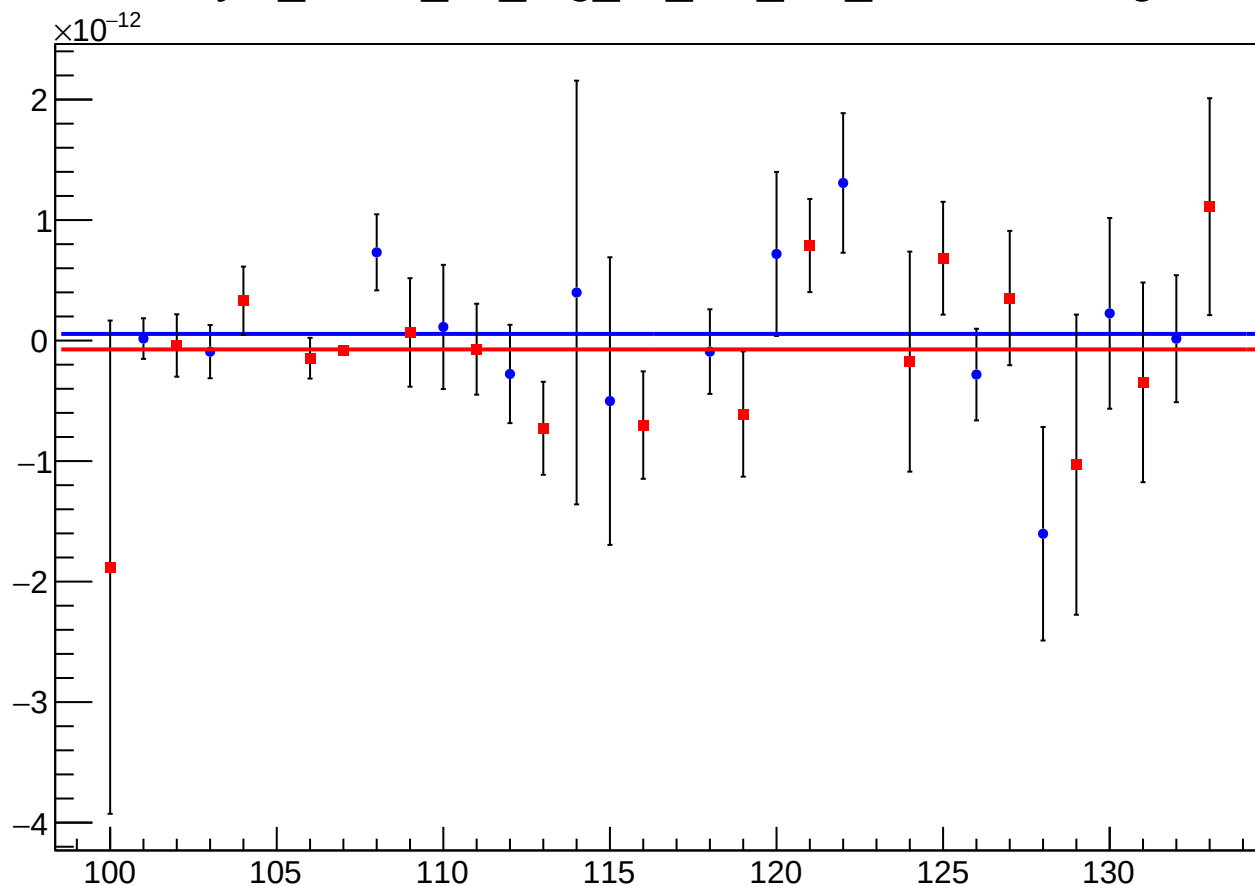
Right Out: 3997.122+/-1.147  $\chi^2/\text{NDF}$ : 1143298.6/16

All: 4207.083+/-0.866  $\chi^2/\text{NDF}$ : 1525052.9/30

- 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\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.7/16

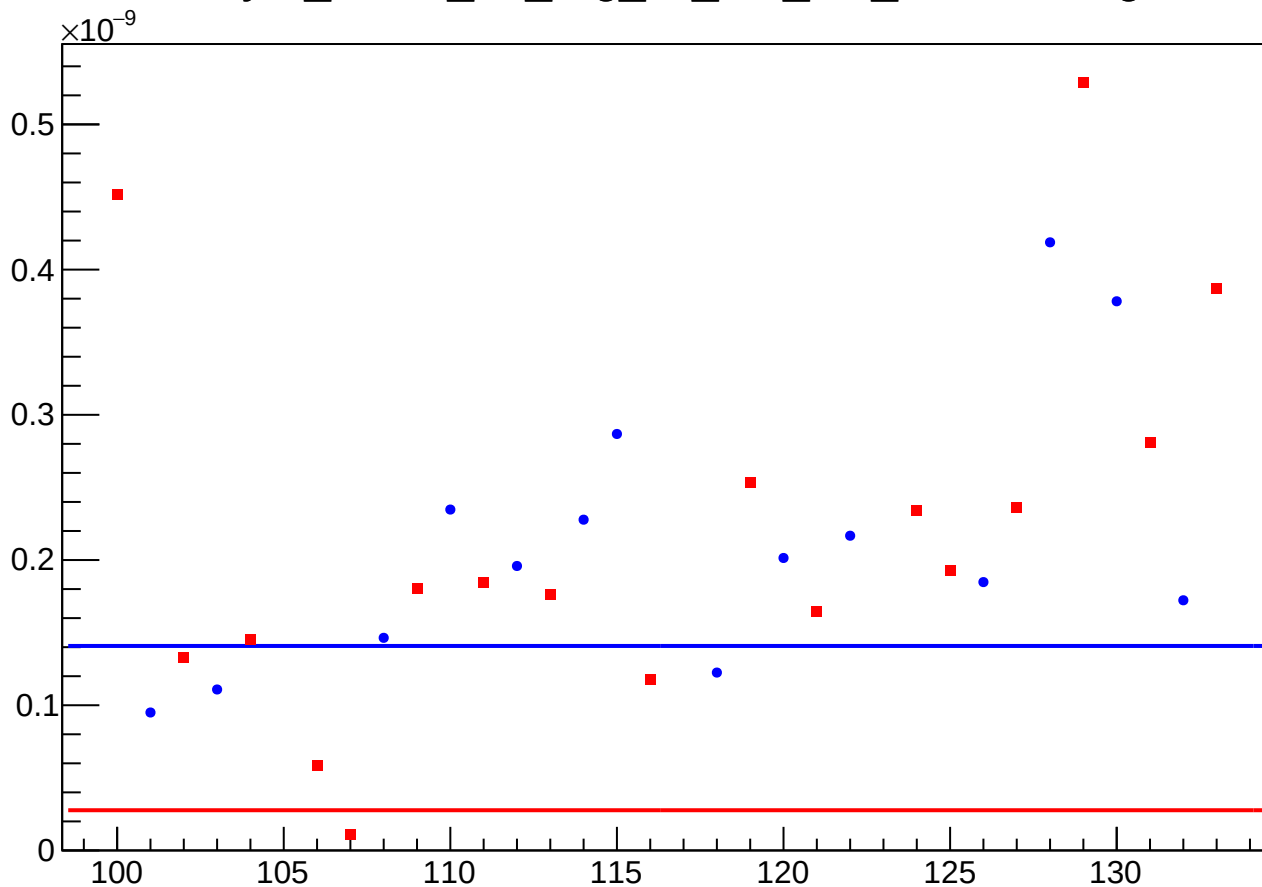
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 37.4/30

- 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 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 789721.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4265000.7/16

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

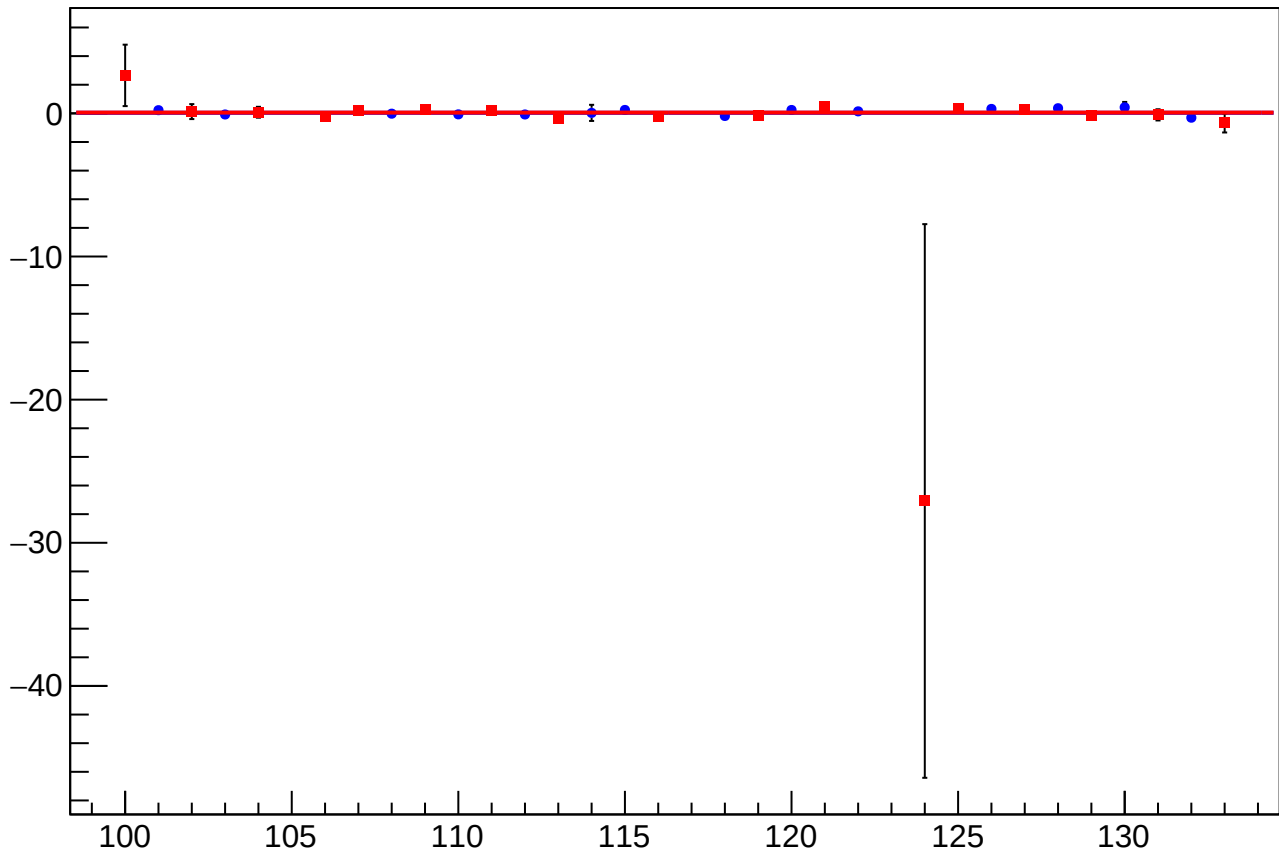
+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 7410500.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl1r2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.040 $\pm$ 0.070  $\chi^2$ /NDF: 7.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.054 $\pm$ 0.066  $\chi^2$ /NDF: 17.9/16

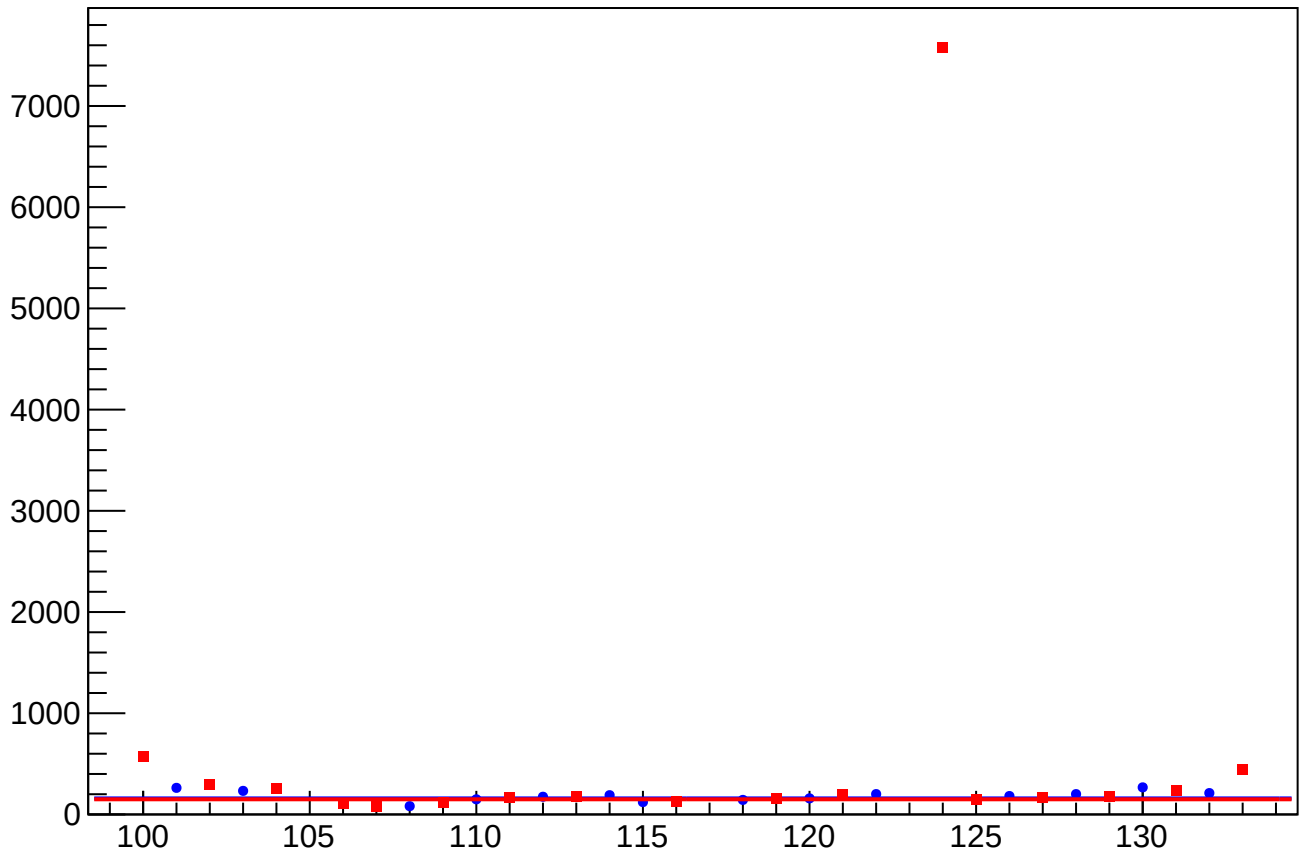
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.047 $\pm$ 0.048  $\chi^2$ /NDF: 25.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 158.444+/-0.050     $\chi^2/\text{NDF}$ : 1236874.7/13

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 149.837+/-0.047     $\chi^2/\text{NDF}$ : 1728891.8/16

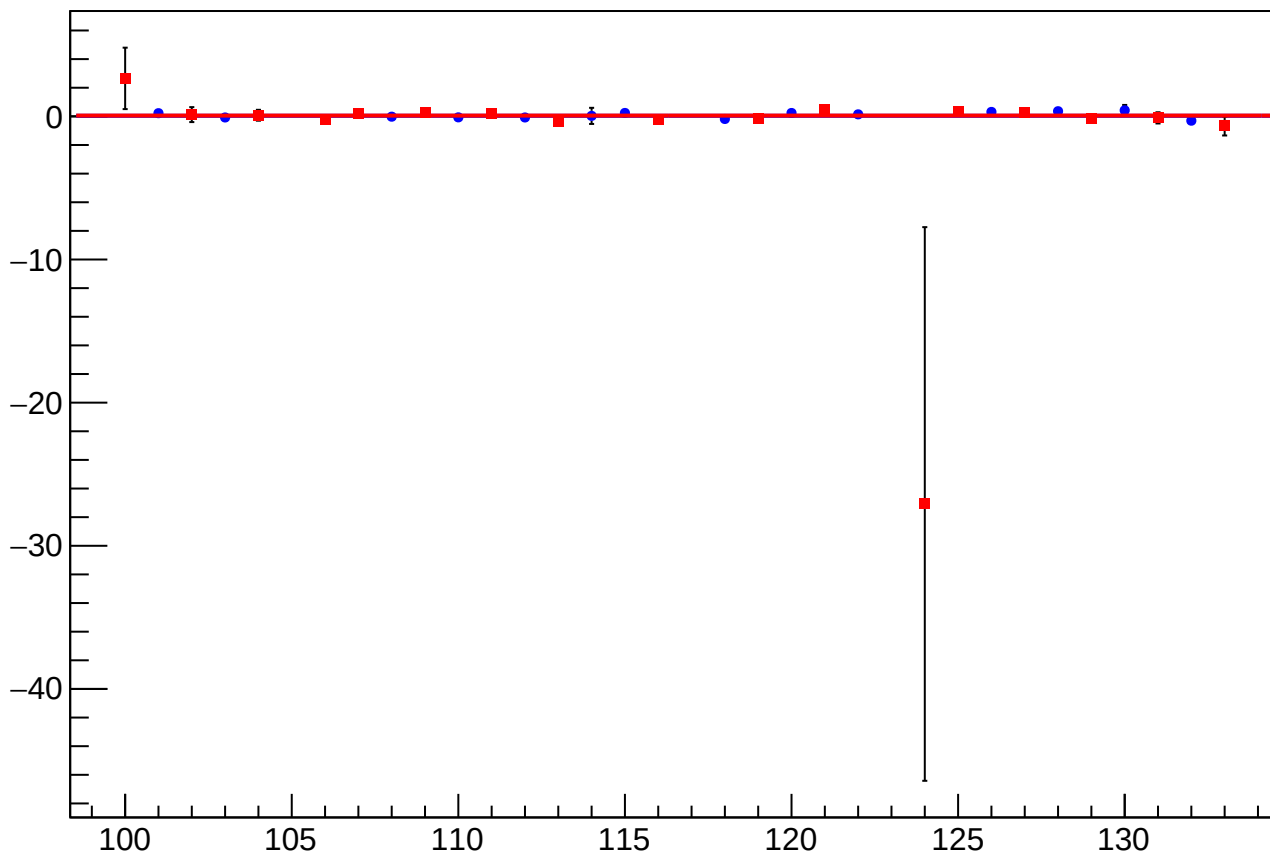
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 153.865+/-0.034     $\chi^2/\text{NDF}$ : 2981652.9/30

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.040 $\pm$ 0.070  $\chi^2$ /NDF: 7.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.054 $\pm$ 0.066  $\chi^2$ /NDF: 17.9/16

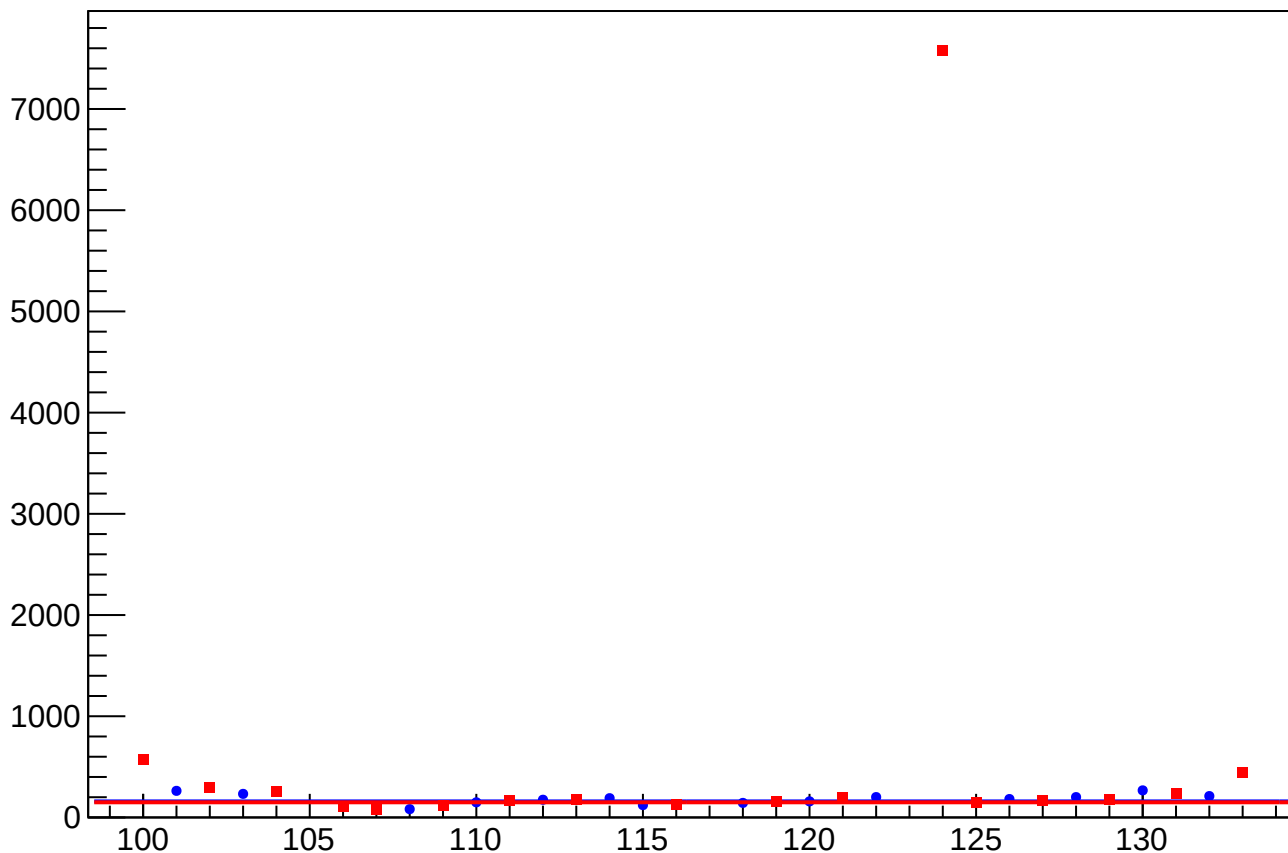
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.047 $\pm$ 0.048  $\chi^2$ /NDF: 25.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 158.444+/-0.050  $\chi^2/\text{NDF}$ : 1236874.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 149.837+/-0.047  $\chi^2/\text{NDF}$ : 1728891.8/16

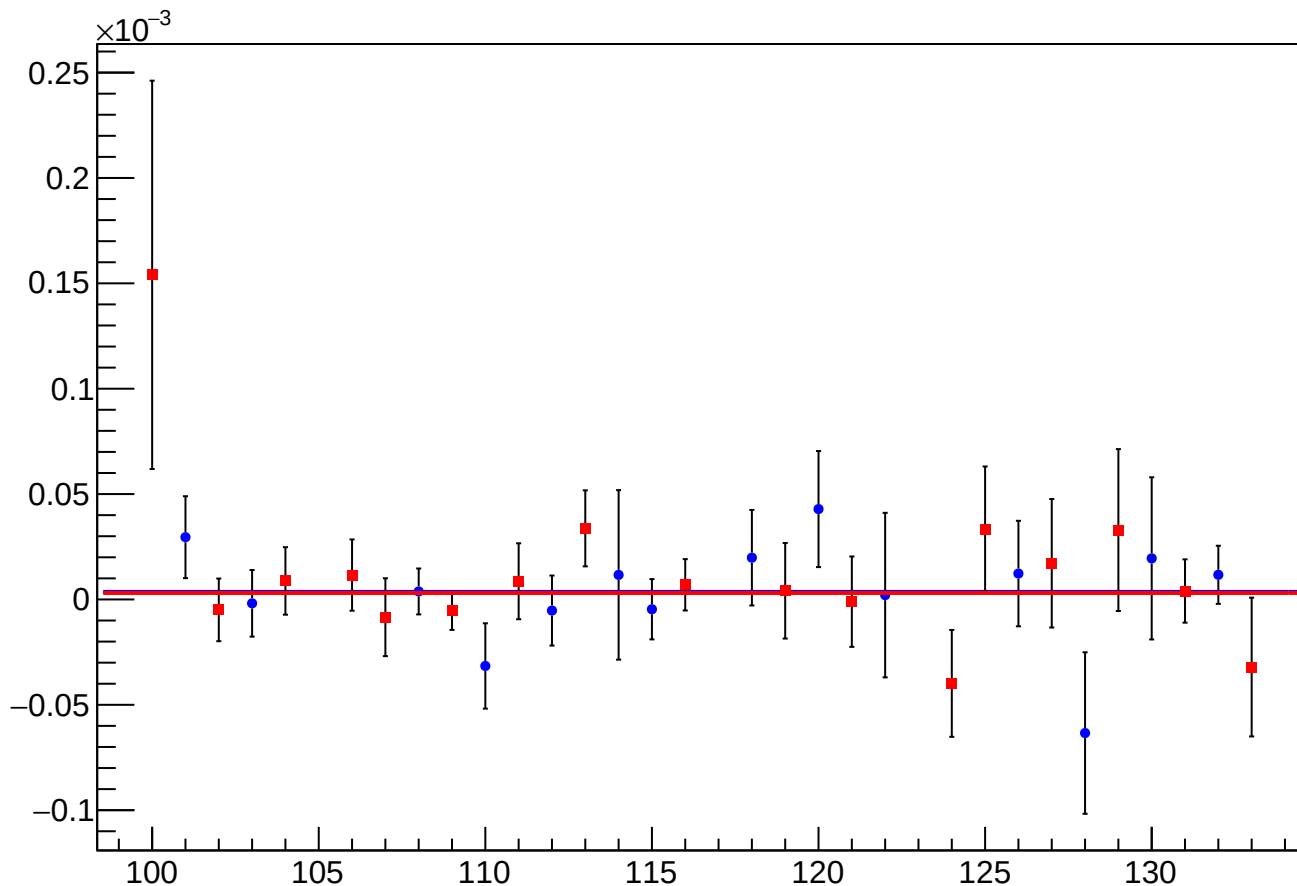
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 153.865+/-0.034  $\chi^2/\text{NDF}$ : 2981652.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.6/16

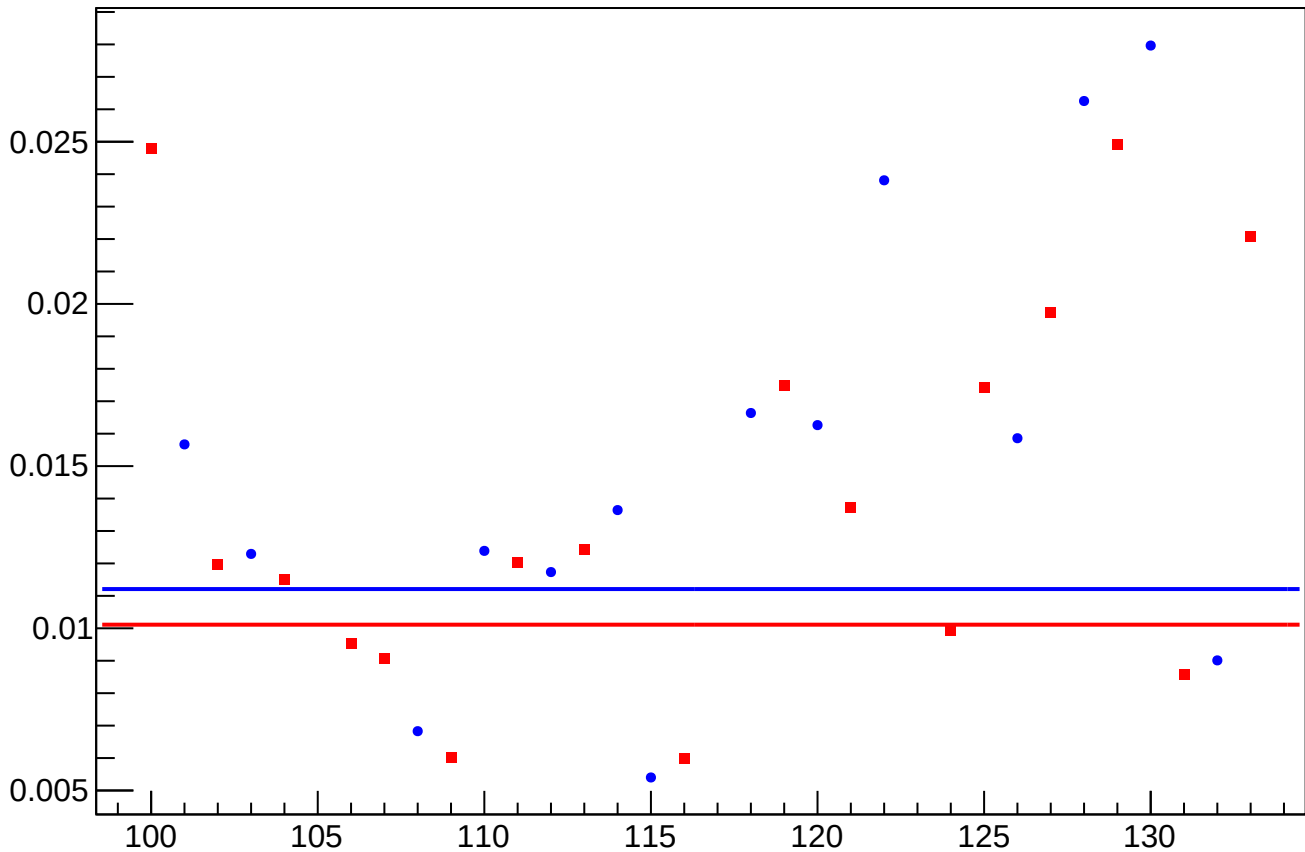
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 25.4/30

- 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: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 1982028.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 1975168.1/16

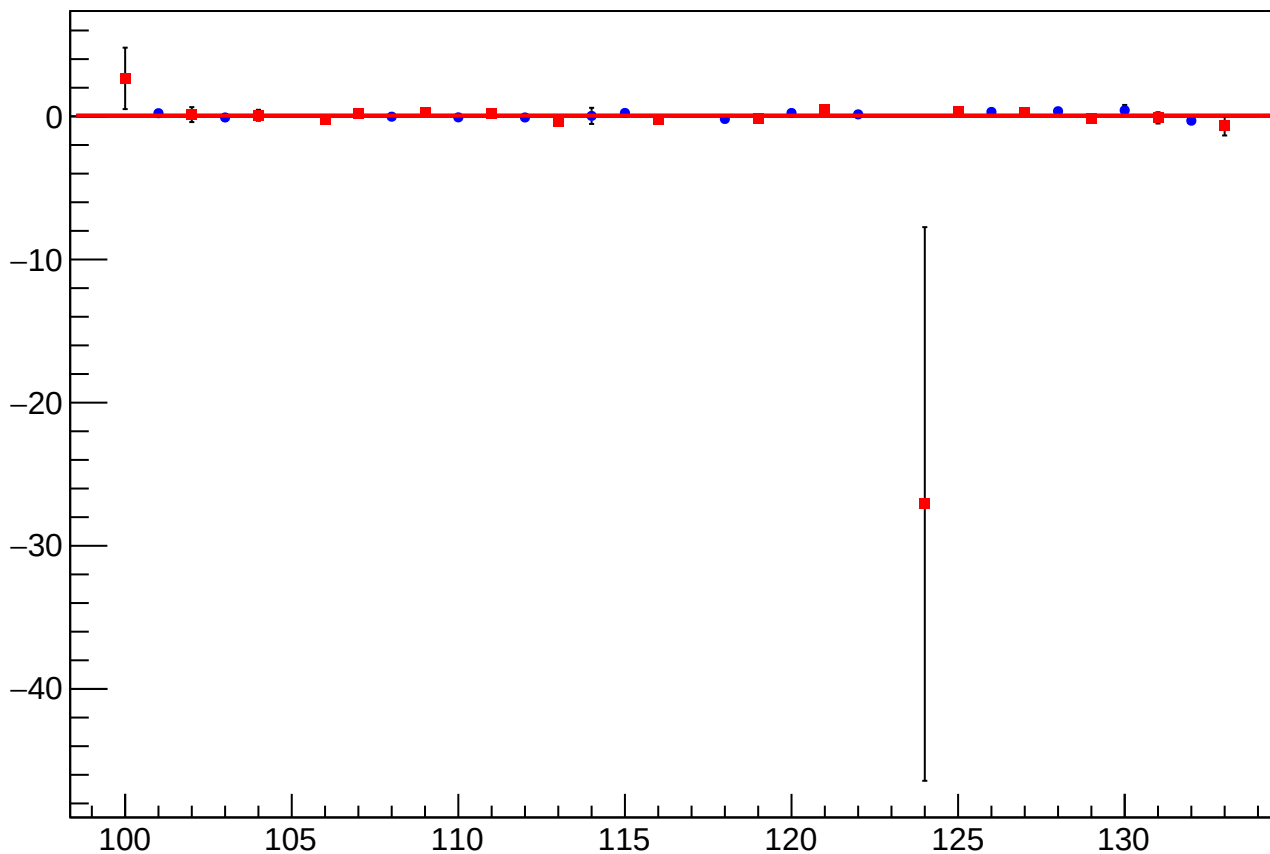
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 4011671.8/30

- 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: 0.040 $\pm$ 0.070  $\chi^2$ /NDF: 7.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.054 $\pm$ 0.066  $\chi^2$ /NDF: 17.9/16

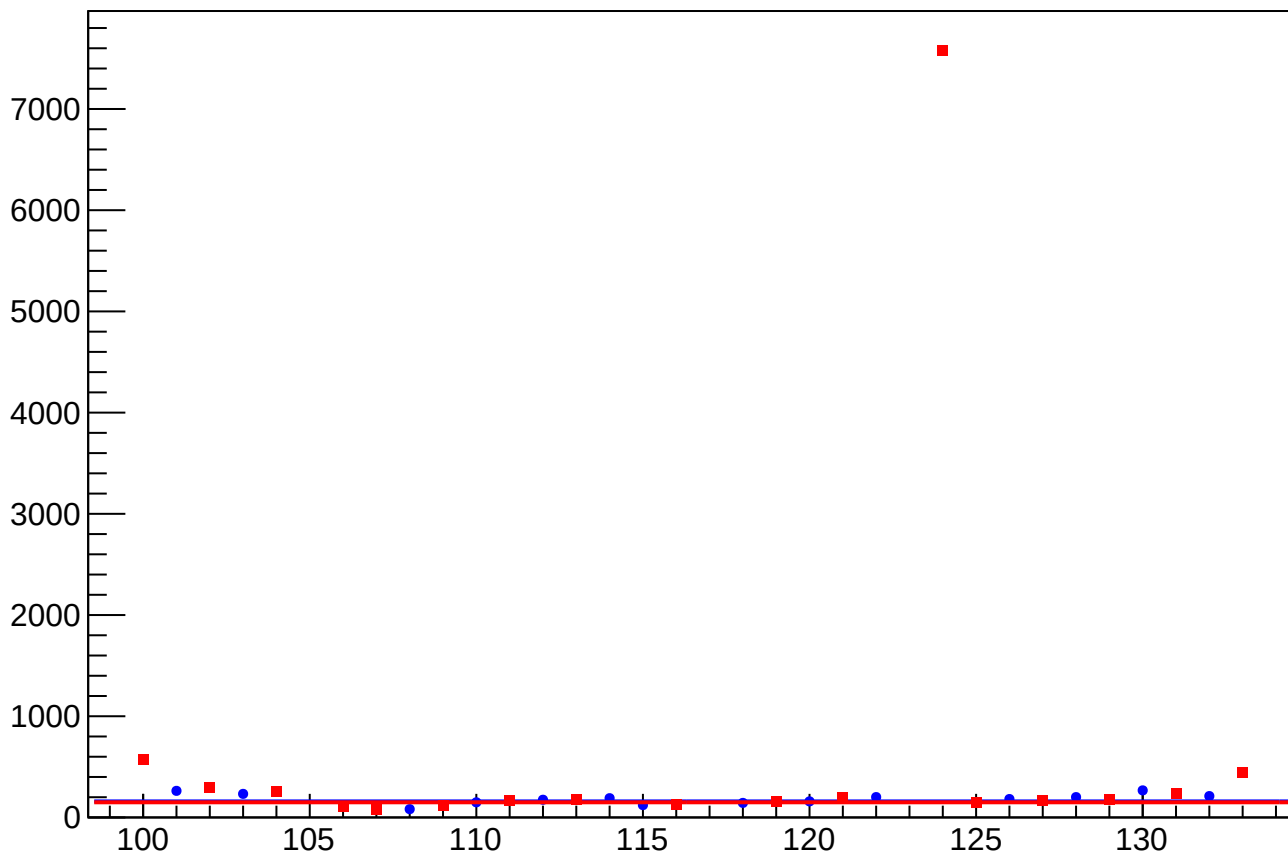
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.047 $\pm$ 0.048  $\chi^2$ /NDF: 25.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 158.444+/-0.050  $\chi^2/\text{NDF}$ : 1236829.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 149.837+/-0.047  $\chi^2/\text{NDF}$ : 1728896.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

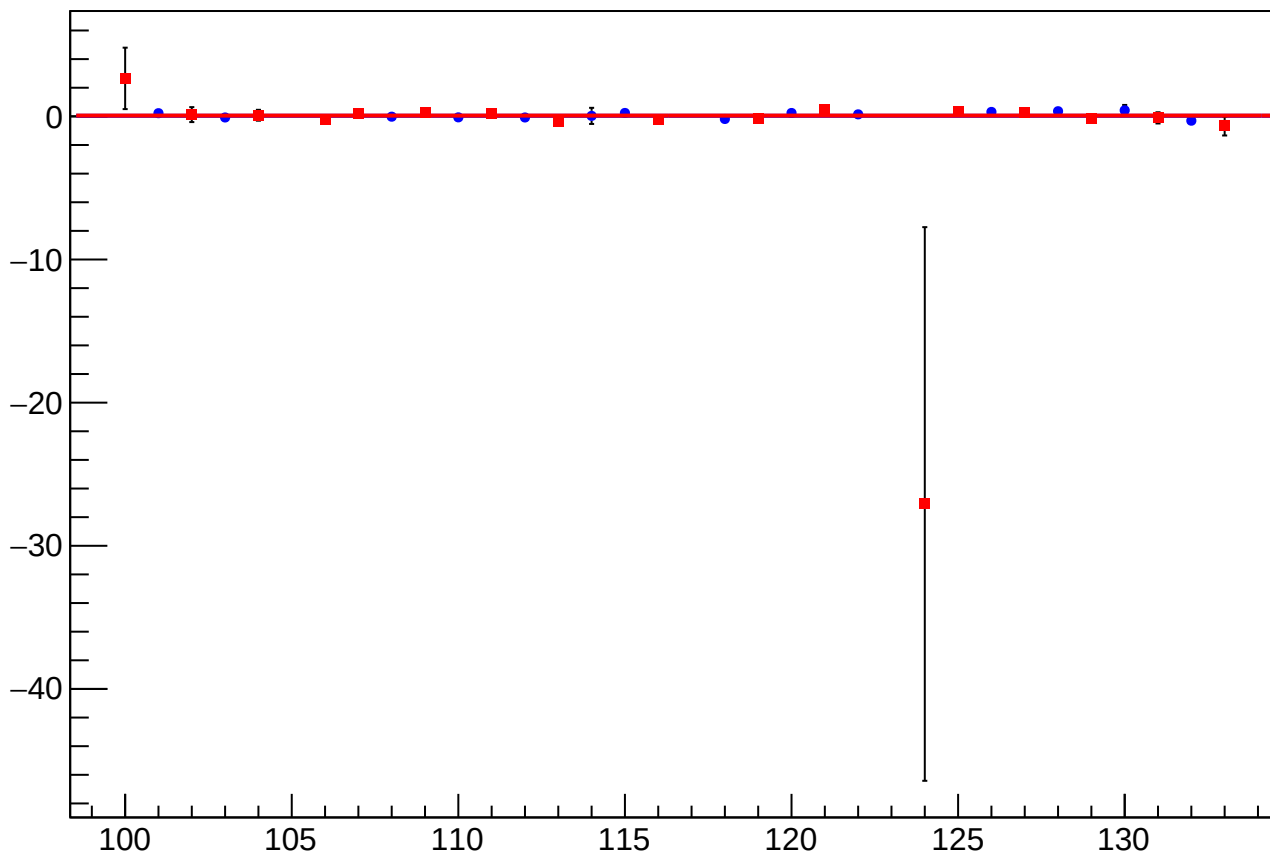
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 153.864+/-0.034  $\chi^2/\text{NDF}$ : 2981612.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl1r2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.040 $\pm$ 0.070  $\chi^2$ /NDF: 7.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.054 $\pm$ 0.066  $\chi^2$ /NDF: 17.9/16

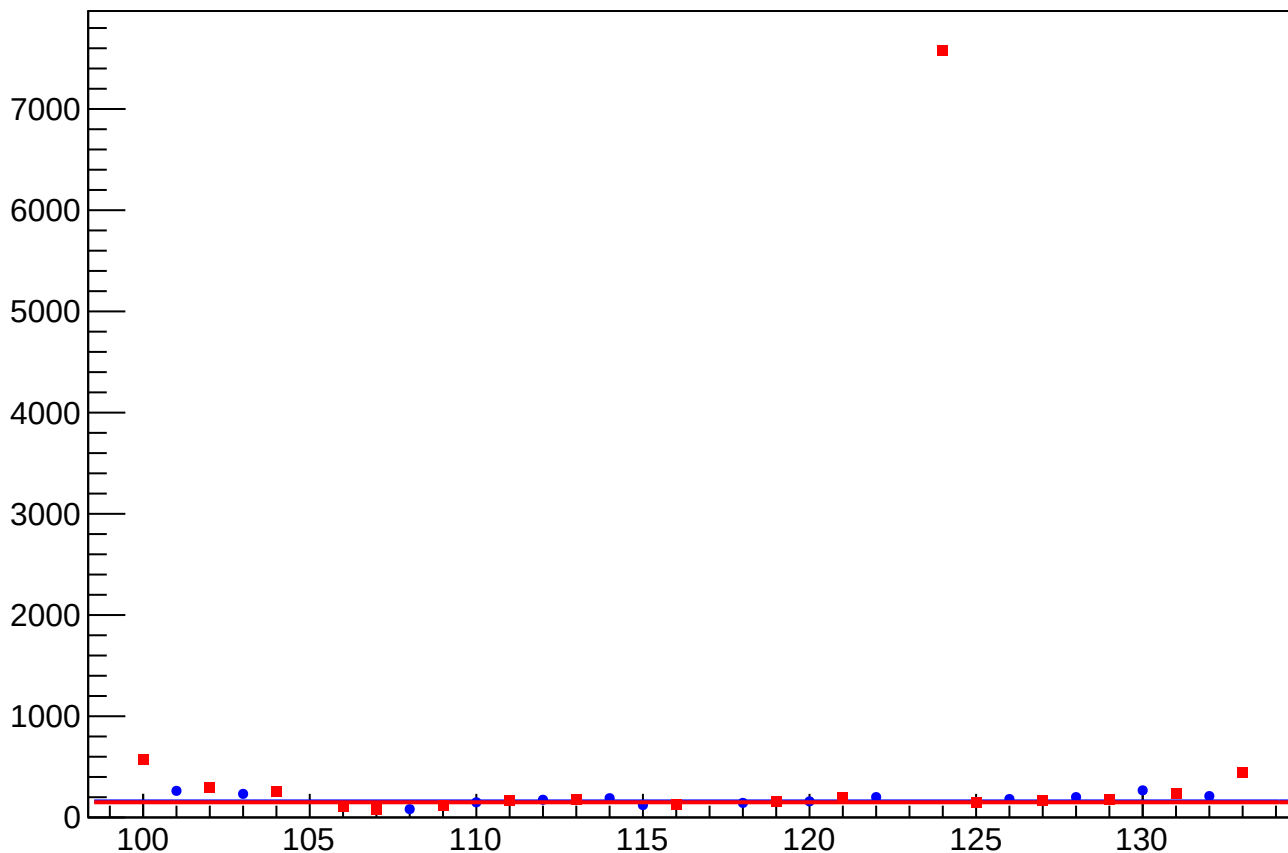
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.047 $\pm$ 0.048  $\chi^2$ /NDF: 25.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 158.444 $\pm$ 0.050  $\chi^2$ /NDF: 1236829.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 149.837 $\pm$ 0.047  $\chi^2$ /NDF: 1728896.9/16

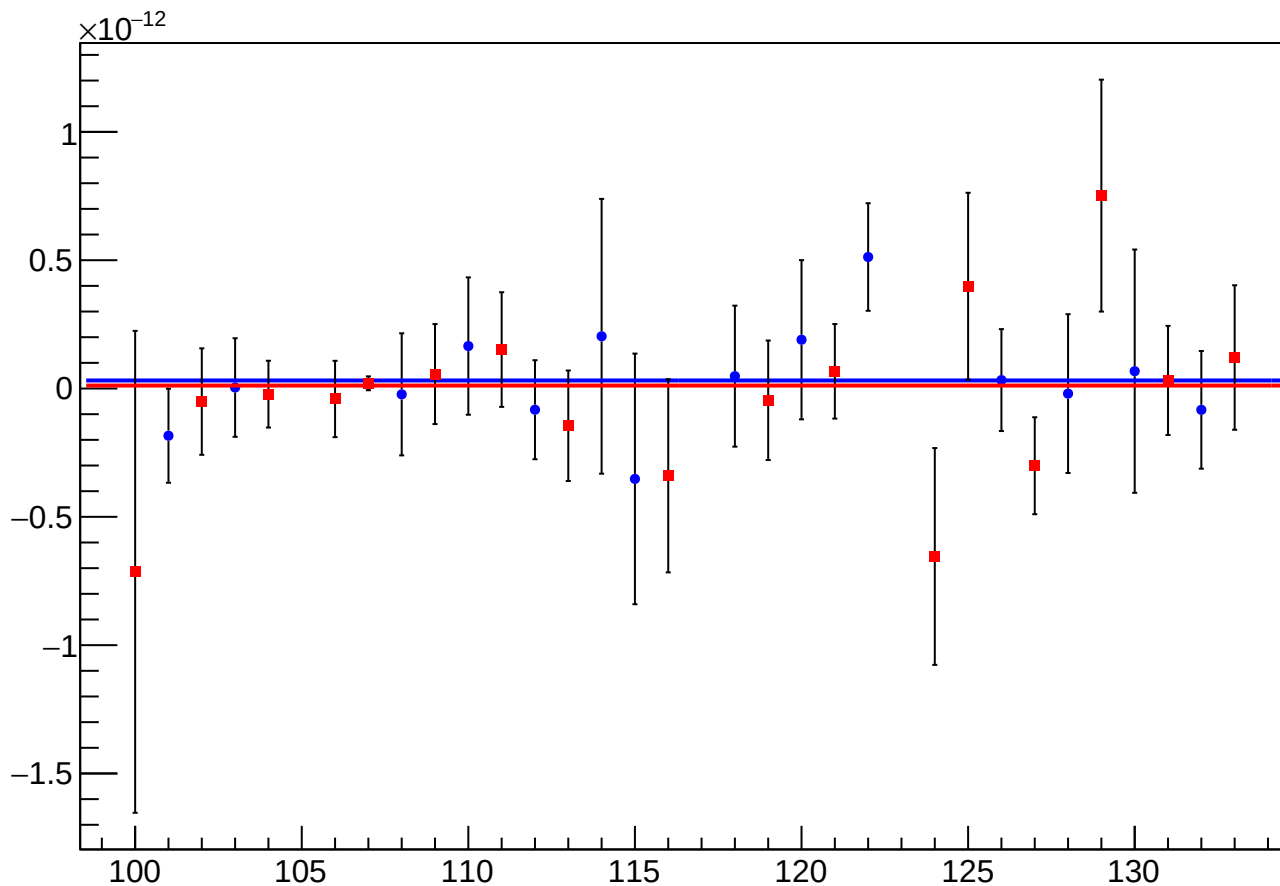
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 153.864 $\pm$ 0.034  $\chi^2$ /NDF: 2981612.9/30

- 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 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 8.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 12.2/16

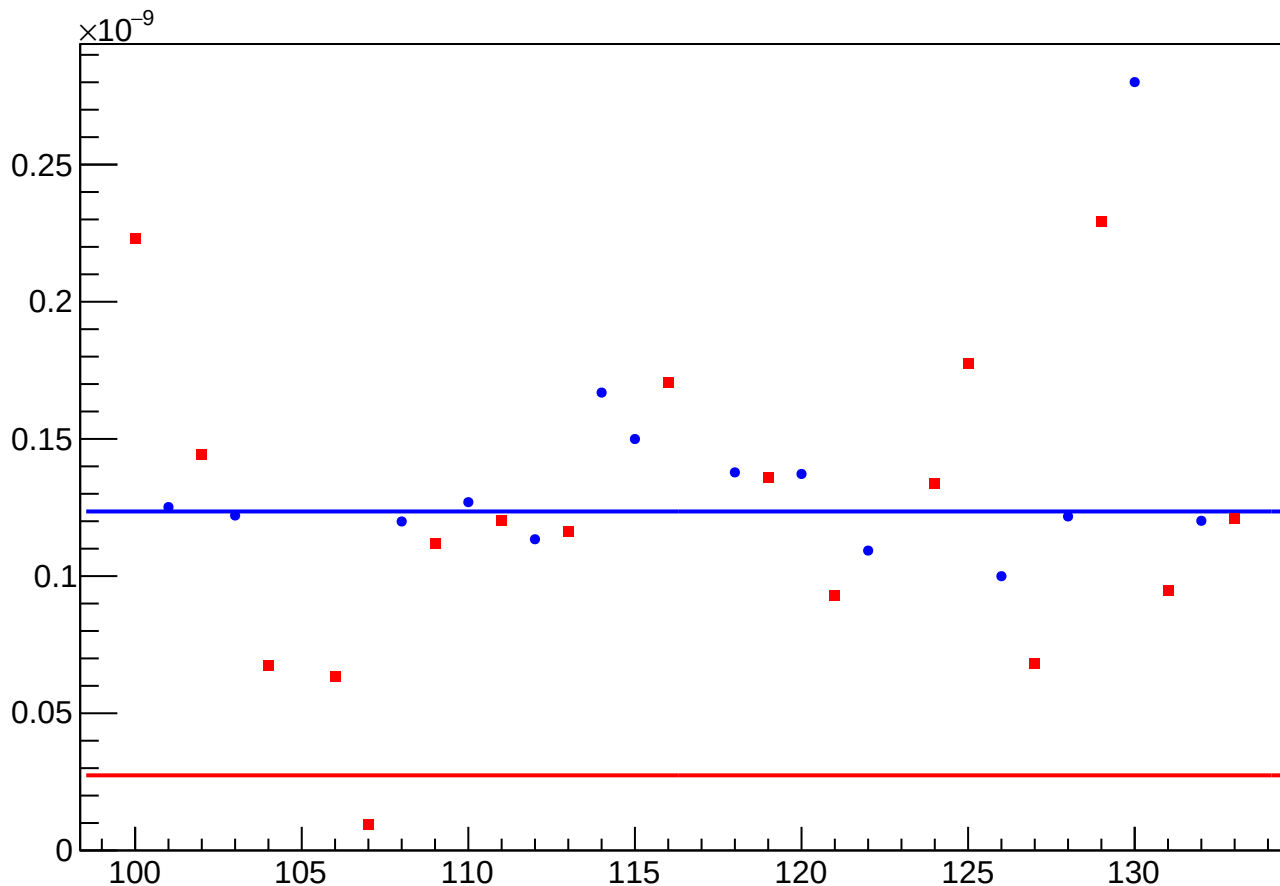
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 20.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 290787.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5322179.5/16

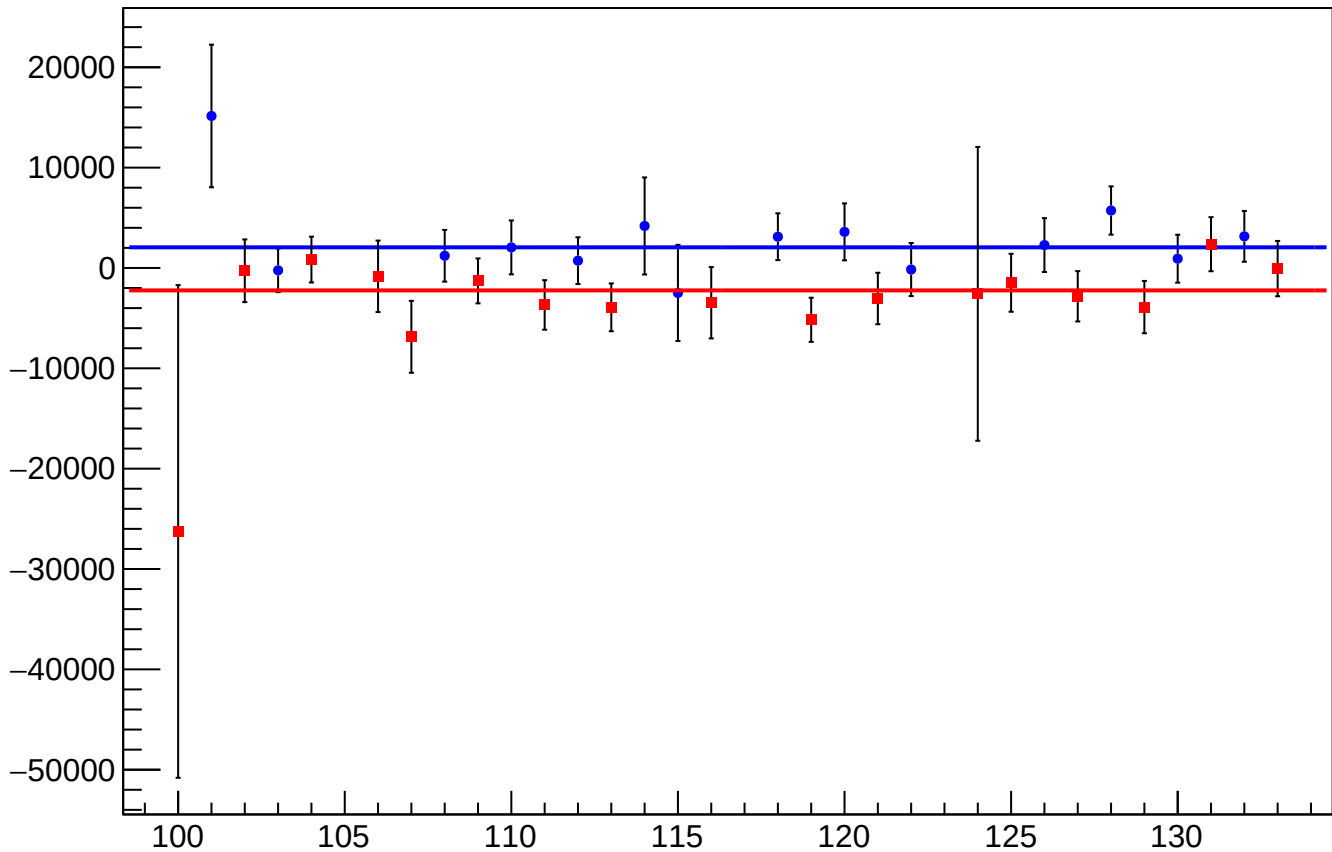
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9344097.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_avg\_mean vs Slug



Right In: 2056.640+/-728.192  $\chi^2/\text{NDF}$ : 10.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2234.978+/-685.162  $\chi^2/\text{NDF}$ : 12.1/16

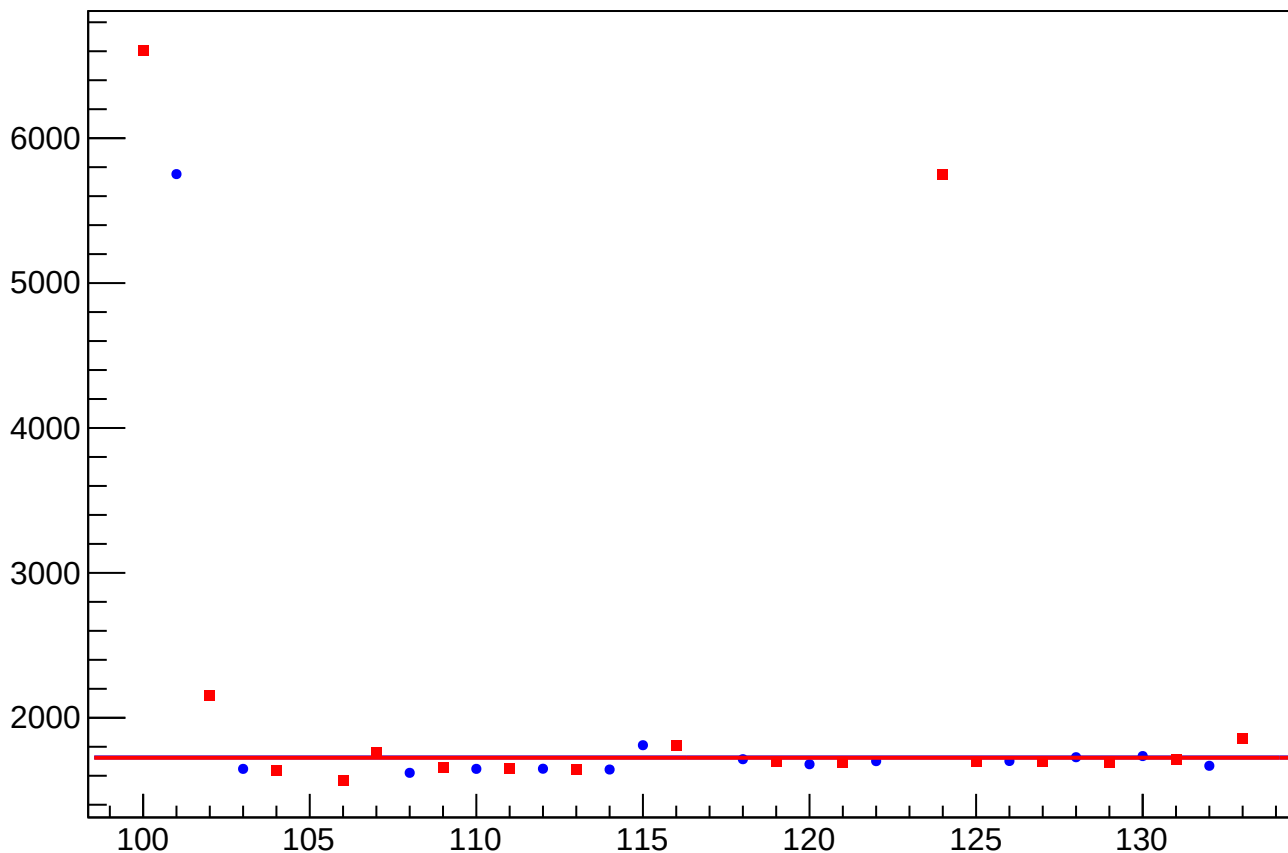
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -219.709+/-499.002  $\chi^2/\text{NDF}$ : 40.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1726.214+/-0.515  $\chi^2/\text{NDF}$ : 655211.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1724.329+/-0.481  $\chi^2/\text{NDF}$ : 289598.5/16

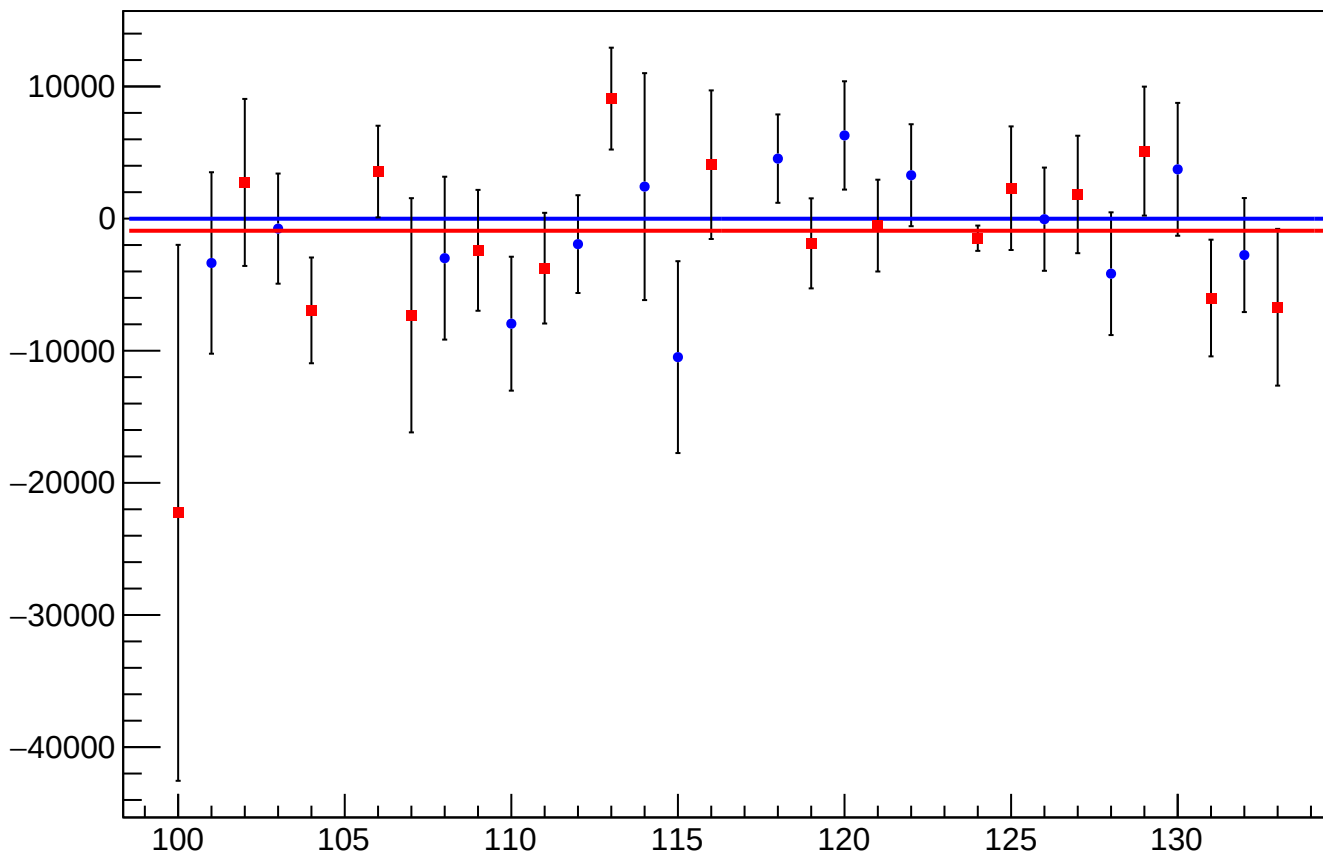
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1725.207+/-0.351  $\chi^2/\text{NDF}$ : 944817.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_reg\_correction\_mean vs Slug



Right In:  $-9.105 \pm 1220.923$   $\chi^2/\text{NDF}$ : 12.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-919.786 \pm 731.680$   $\chi^2/\text{NDF}$ : 19.1/16

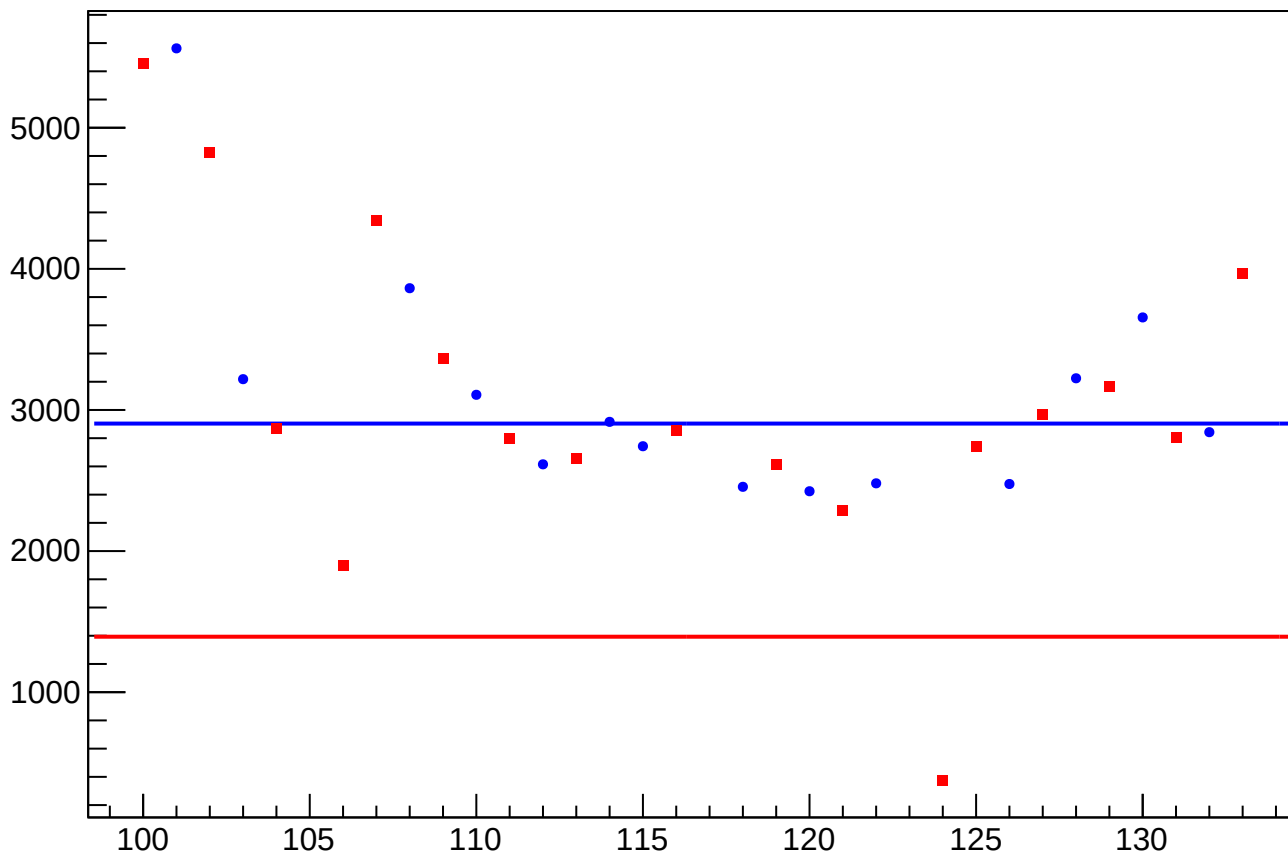
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-679.146 \pm 627.609$   $\chi^2/\text{NDF}$ : 31.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_reg\_correction\_rms vs Slug



Right In: 2903.587 $\pm$ 0.863  $\chi^2$ /NDF: 542260.3/13

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: 1393.152 $\pm$ 0.517  $\chi^2$ /NDF: 6079120.4/16

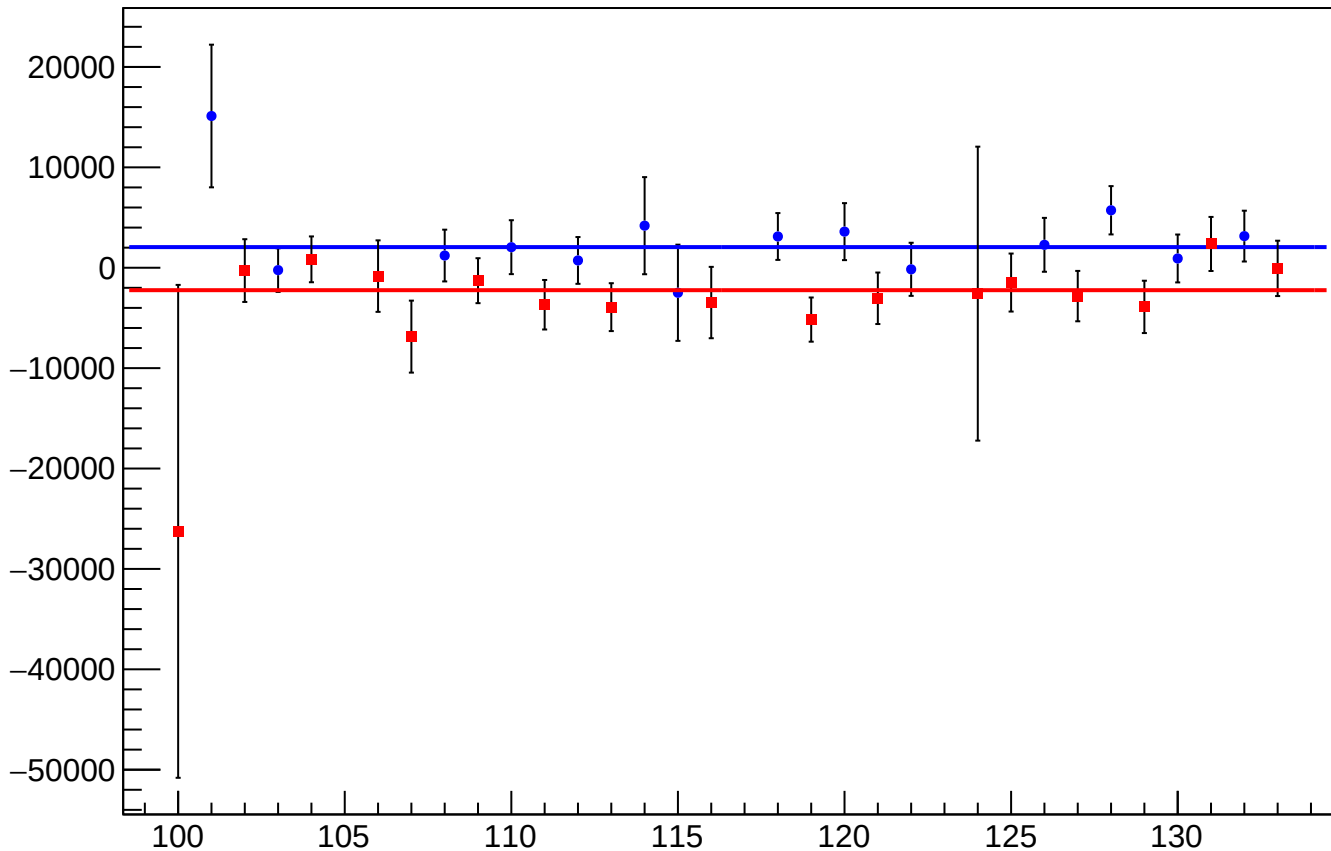
All: 1792.272 $\pm$ 0.444  $\chi^2$ /NDF: 8873505.1/30

- 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\_atr1l2\_avg\_mean vs Slug



Right In: 2056.309+/-728.192  $\chi^2/\text{NDF}$ : 10.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2235.029+/-685.162  $\chi^2/\text{NDF}$ : 12.1/16

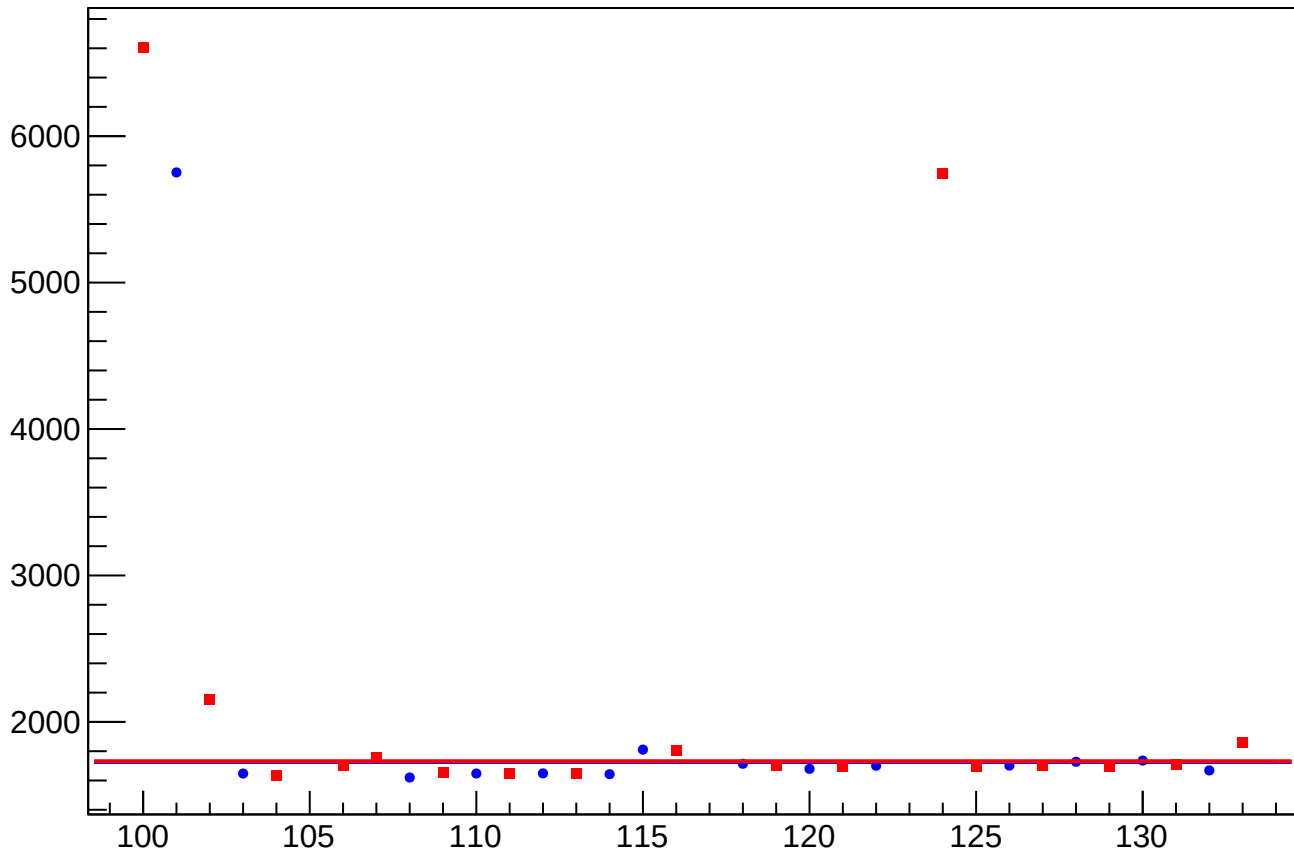
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -219.892+/-499.002  $\chi^2/\text{NDF}$ : 40.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1726.214+/-0.515  $\chi^2/\text{NDF}$ : 655211.9/13

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

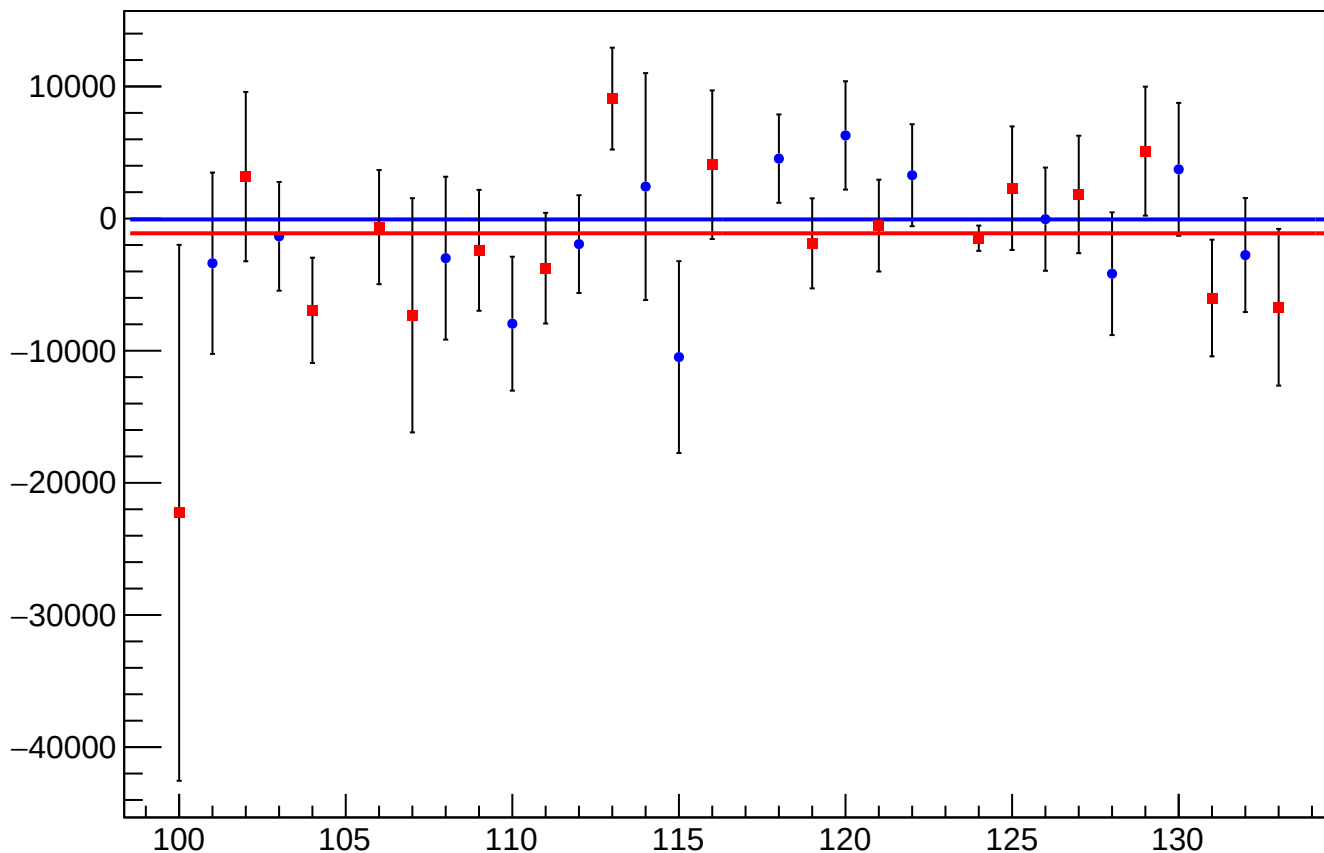
Right Out: 1731.531+/-0.483  $\chi^2/\text{NDF}$ : 283894.6/16

All: 1729.045+/-0.352  $\chi^2/\text{NDF}$ : 939163.3/30

- 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\_avg\_cor\_correction\_mean vs Slug



Right In: -62.599+/-1219.565  $\chi^2/\text{NDF}$ : 12.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1112.056+/-737.544  $\chi^2/\text{NDF}$ : 17.4/16

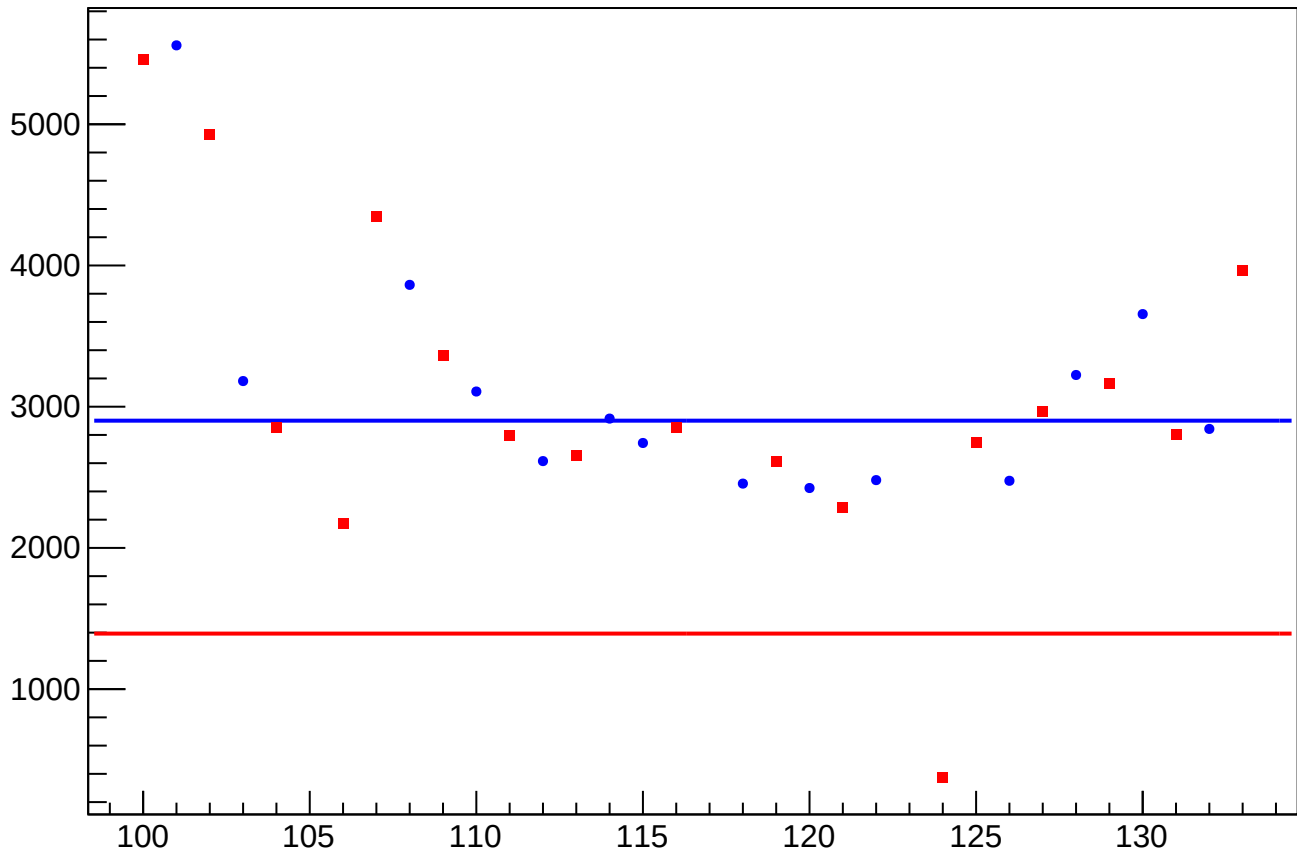
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -831.018+/-631.110  $\chi^2/\text{NDF}$ : 30.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_cor\_correction\_rms vs Slug



Right In: 2901.043+/-0.862  $\chi^2/\text{NDF}$ : 539500.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1393.274+/-0.522  $\chi^2/\text{NDF}$ : 6118144.0/16

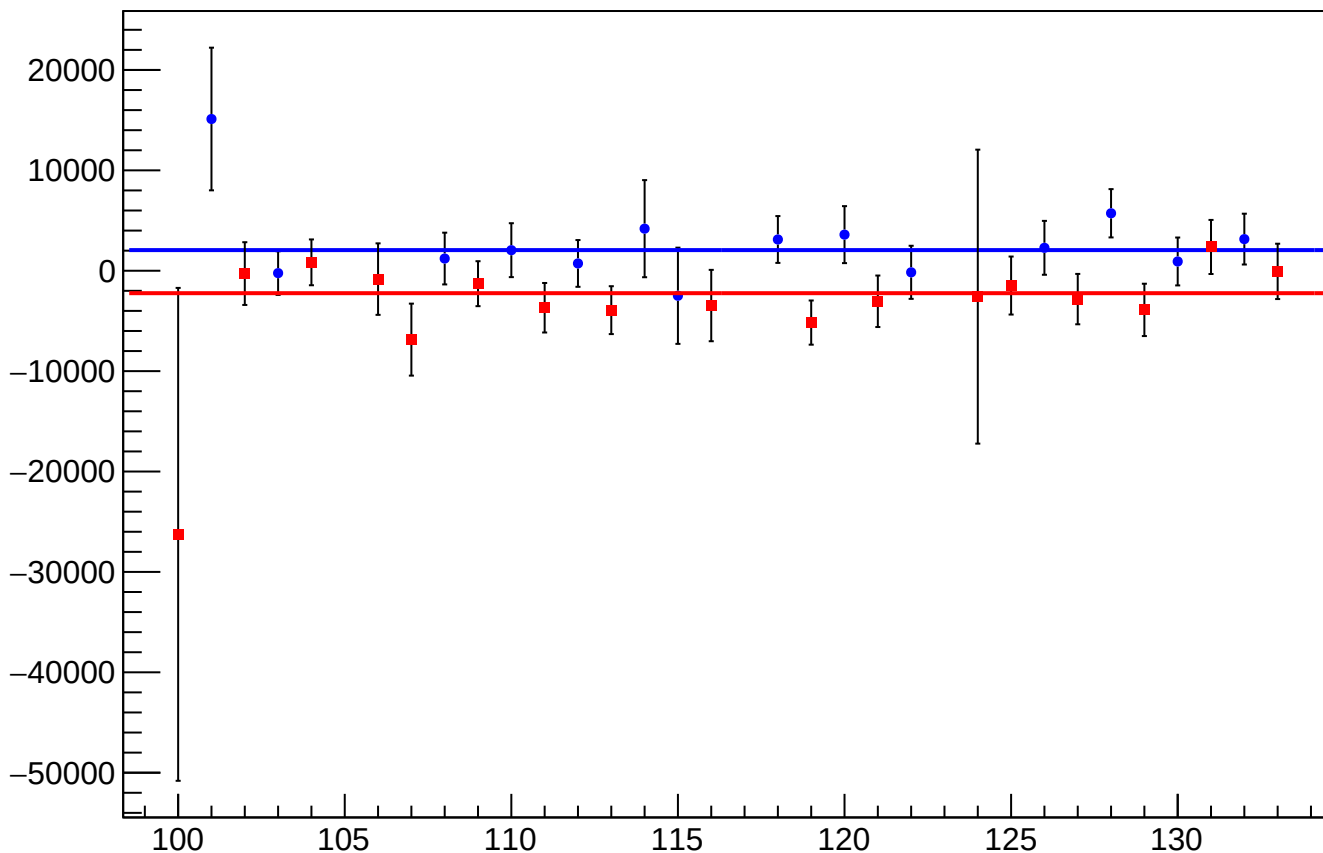
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1797.045+/-0.446  $\chi^2/\text{NDF}$ : 8895968.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr1l2\_avg\_mean vs Slug



Right In: 2056.309+/-728.192  $\chi^2/\text{NDF}$ : 10.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2235.029+/-685.162  $\chi^2/\text{NDF}$ : 12.1/16

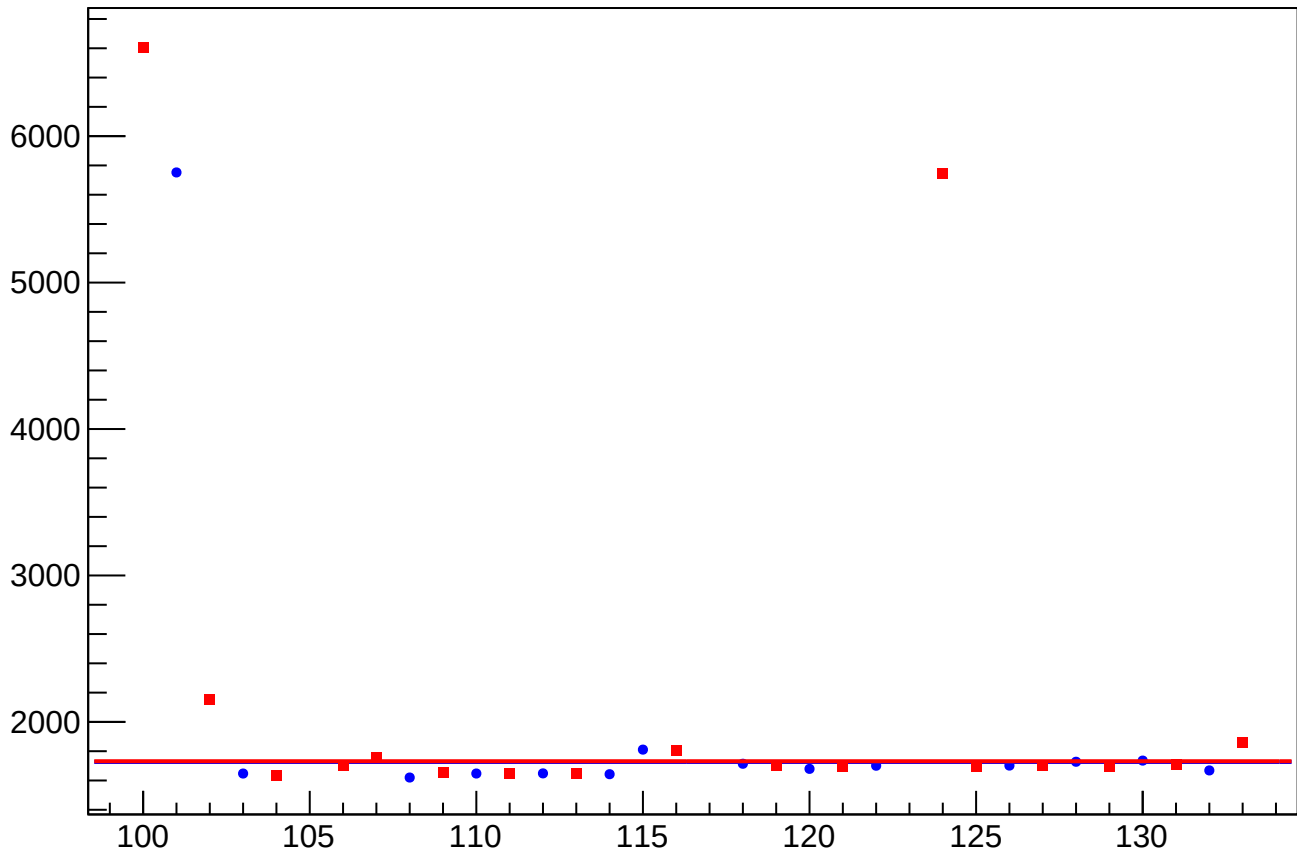
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -219.892+/-499.002  $\chi^2/\text{NDF}$ : 40.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1726.214+/-0.515  $\chi^2/\text{NDF}$ : 655211.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1731.531+/-0.483  $\chi^2/\text{NDF}$ : 283894.6/16

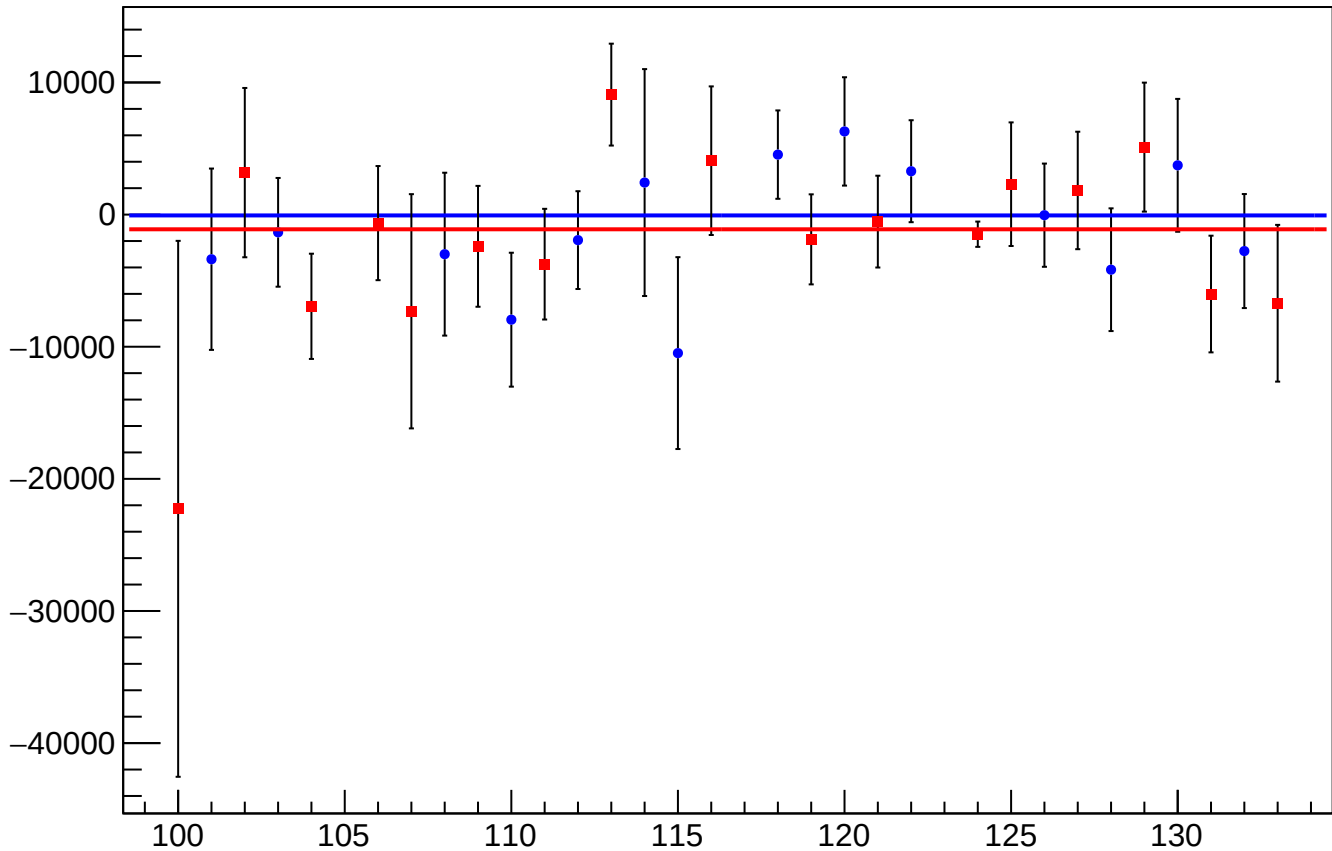
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1729.045+/-0.352  $\chi^2/\text{NDF}$ : 939163.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In:  $-62.599 \pm 1219.565$   $\chi^2/\text{NDF}$ : 12.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1112.056 \pm 737.544$   $\chi^2/\text{NDF}$ : 17.4/16

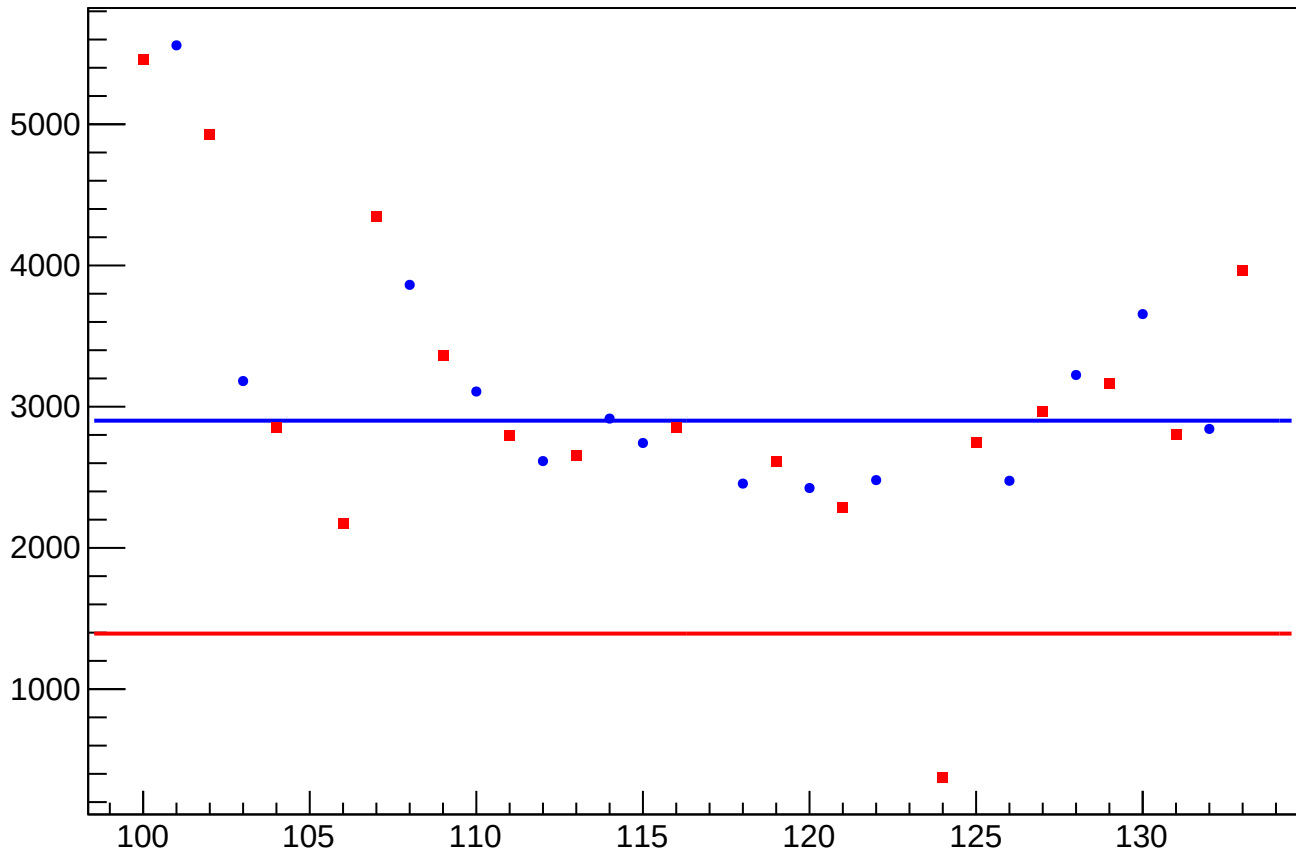
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-831.018 \pm 631.110$   $\chi^2/\text{NDF}$ : 30.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 2901.043+/-0.862  $\chi^2/\text{NDF}$ : 539500.3/13

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: 1393.274+/-0.522  $\chi^2/\text{NDF}$ : 6118144.0/16

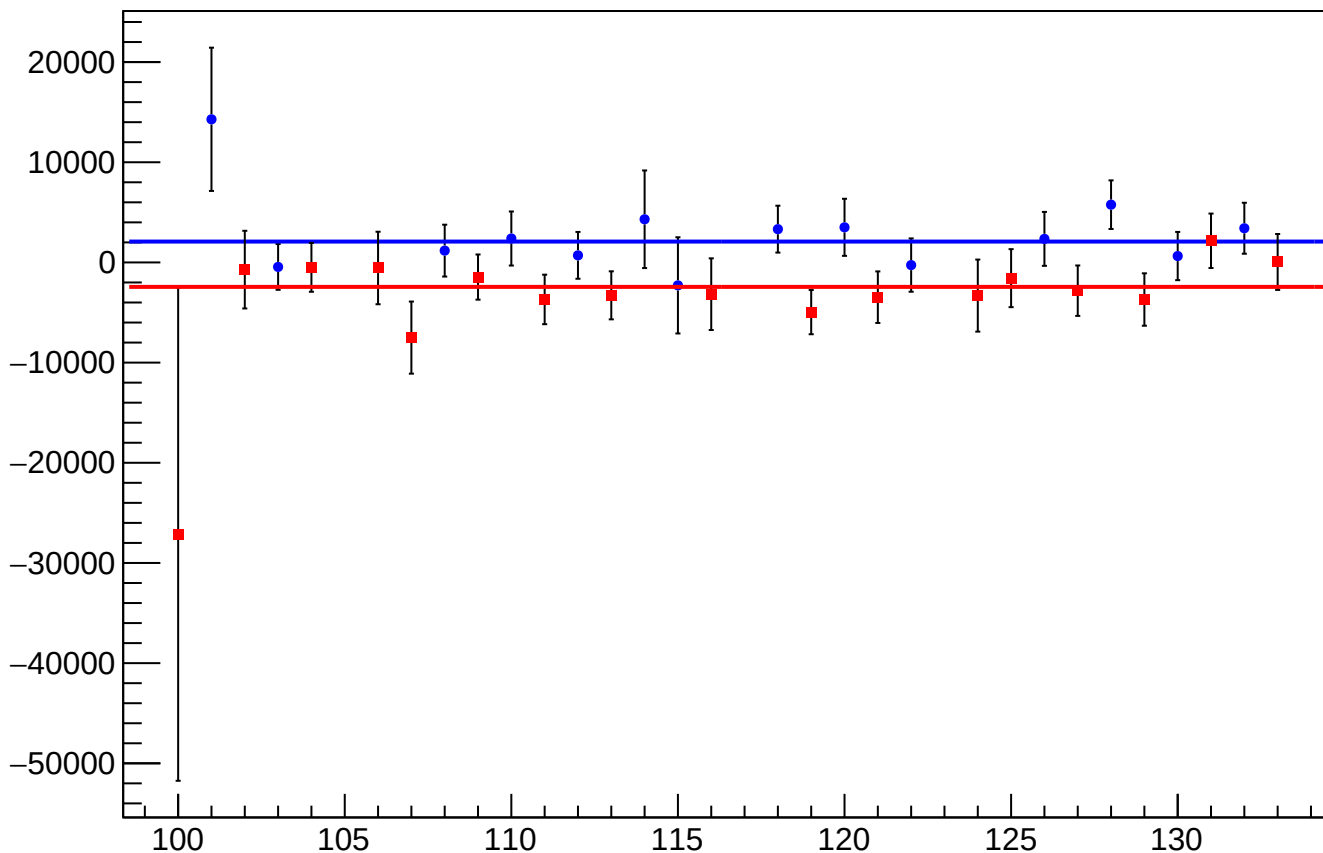
All: 1797.045+/-0.446  $\chi^2/\text{NDF}$ : 8895968.2/30

- 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: 2083.251+/-735.487  $\chi^2/\text{NDF}$ : 9.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2440.283+/-686.292  $\chi^2/\text{NDF}$ : 10.2/16

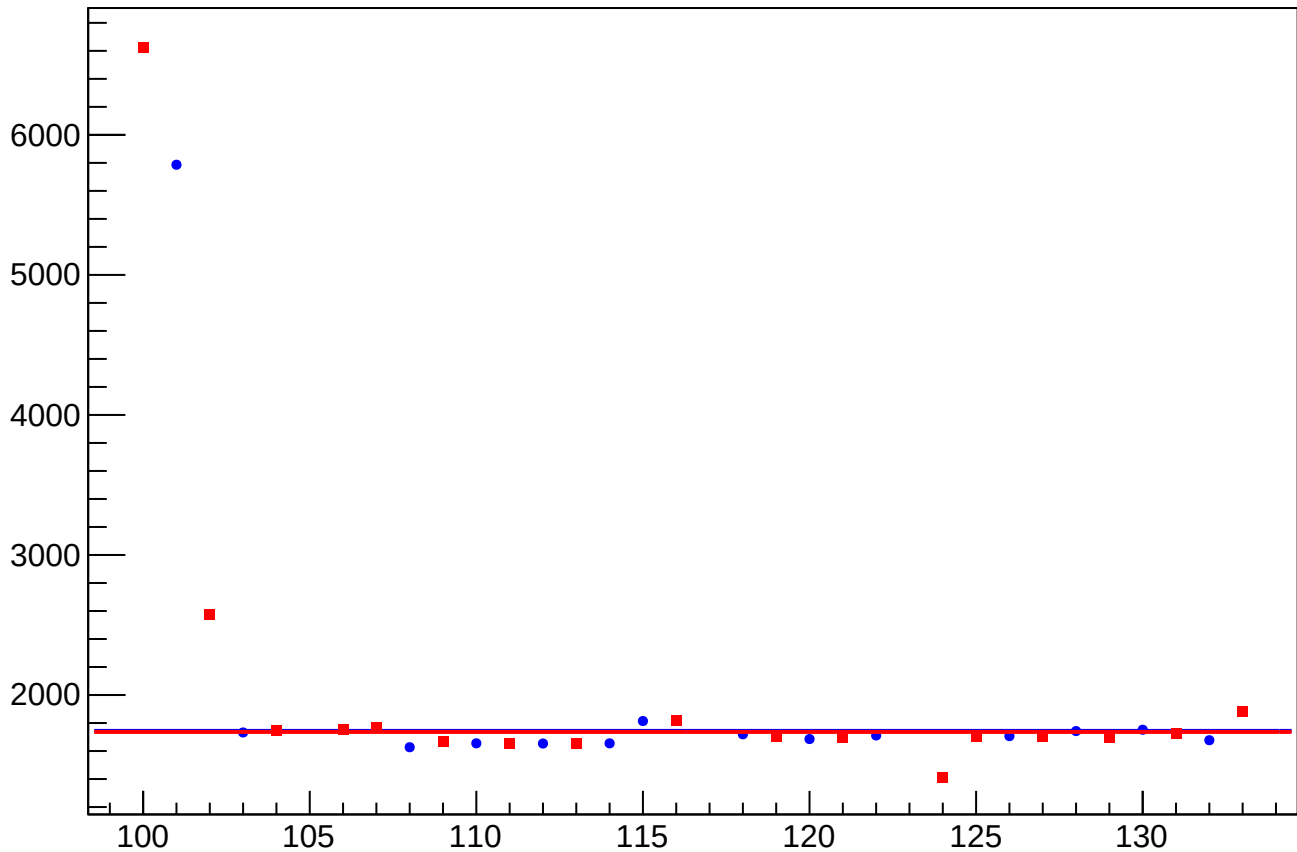
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -334.849+/-501.773  $\chi^2/\text{NDF}$ : 40.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1743.609+/-0.520  $\chi^2/\text{NDF}$ : 652934.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1736.499+/-0.484  $\chi^2/\text{NDF}$ : 203655.6/16

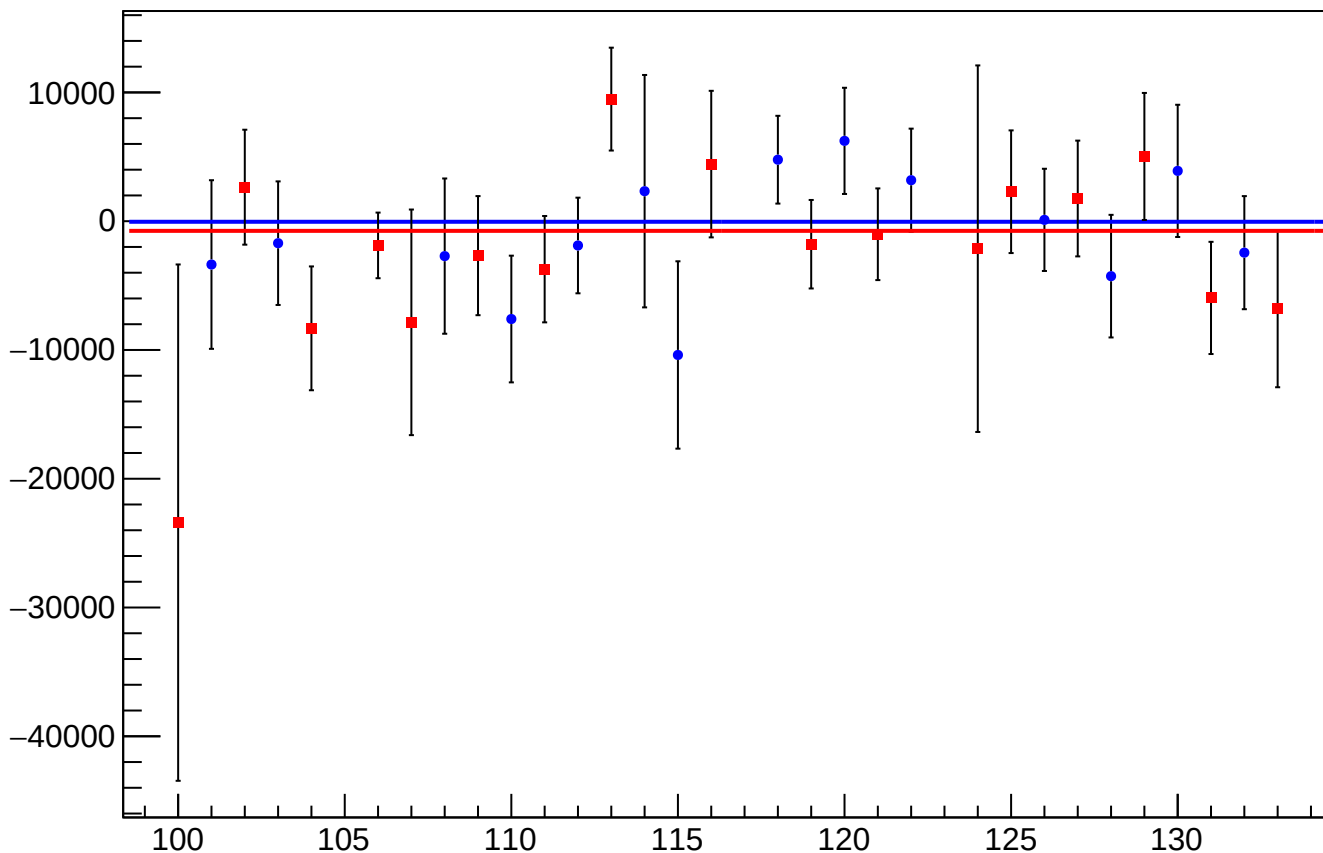
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1739.798+/-0.354  $\chi^2/\text{NDF}$ : 856690.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_dit\_correction\_mean vs Slug



Right In:  $-44.647 \pm 1246.100$   $\chi^2/\text{NDF}$ : 11.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-750.187 \pm 1088.047$   $\chi^2/\text{NDF}$ : 17.9/16

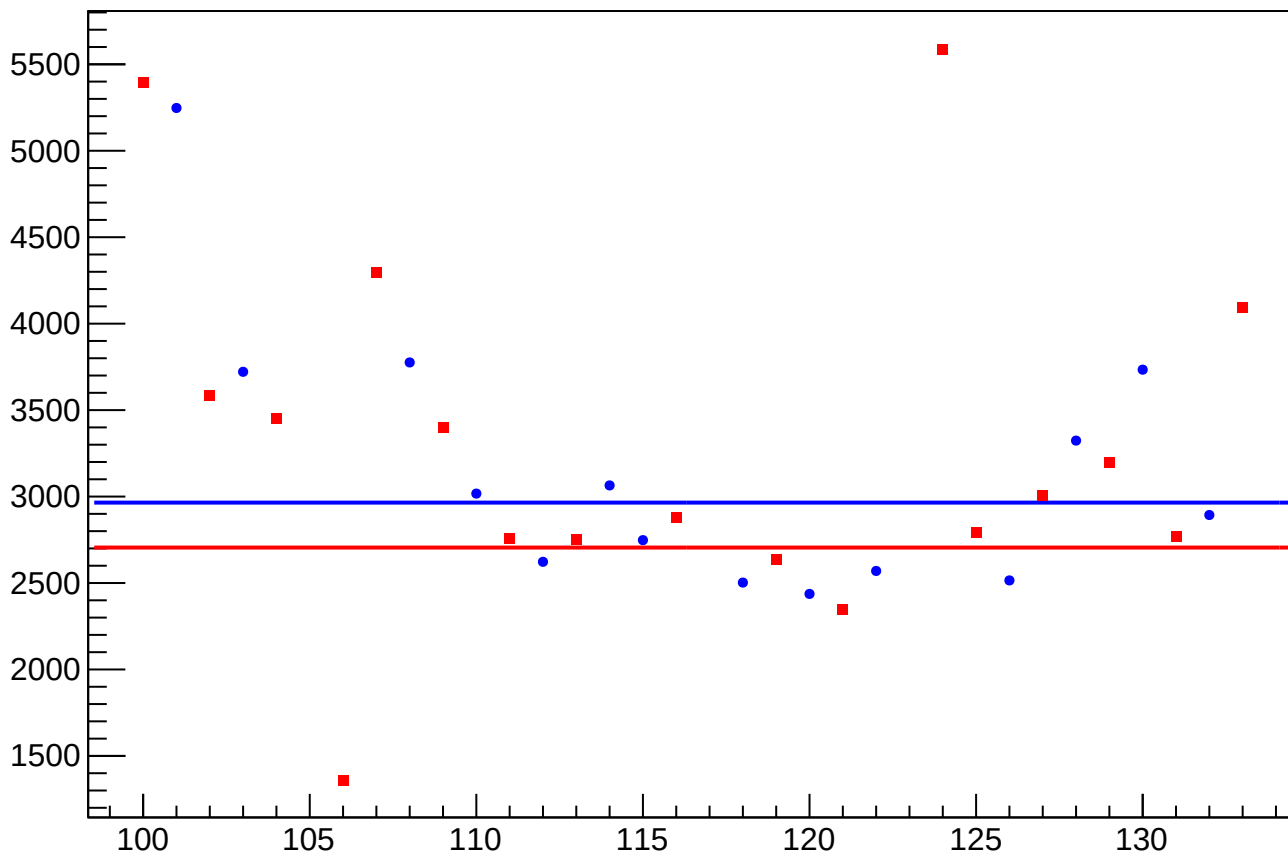
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-444.974 \pm 819.585$   $\chi^2/\text{NDF}$ : 30.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_dit\_correction\_rms vs Slug



Right In: 2965.078+/-0.881  $\chi^2/\text{NDF}$ : 519691.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2705.132+/-0.769  $\chi^2/\text{NDF}$ : 1071216.1/16

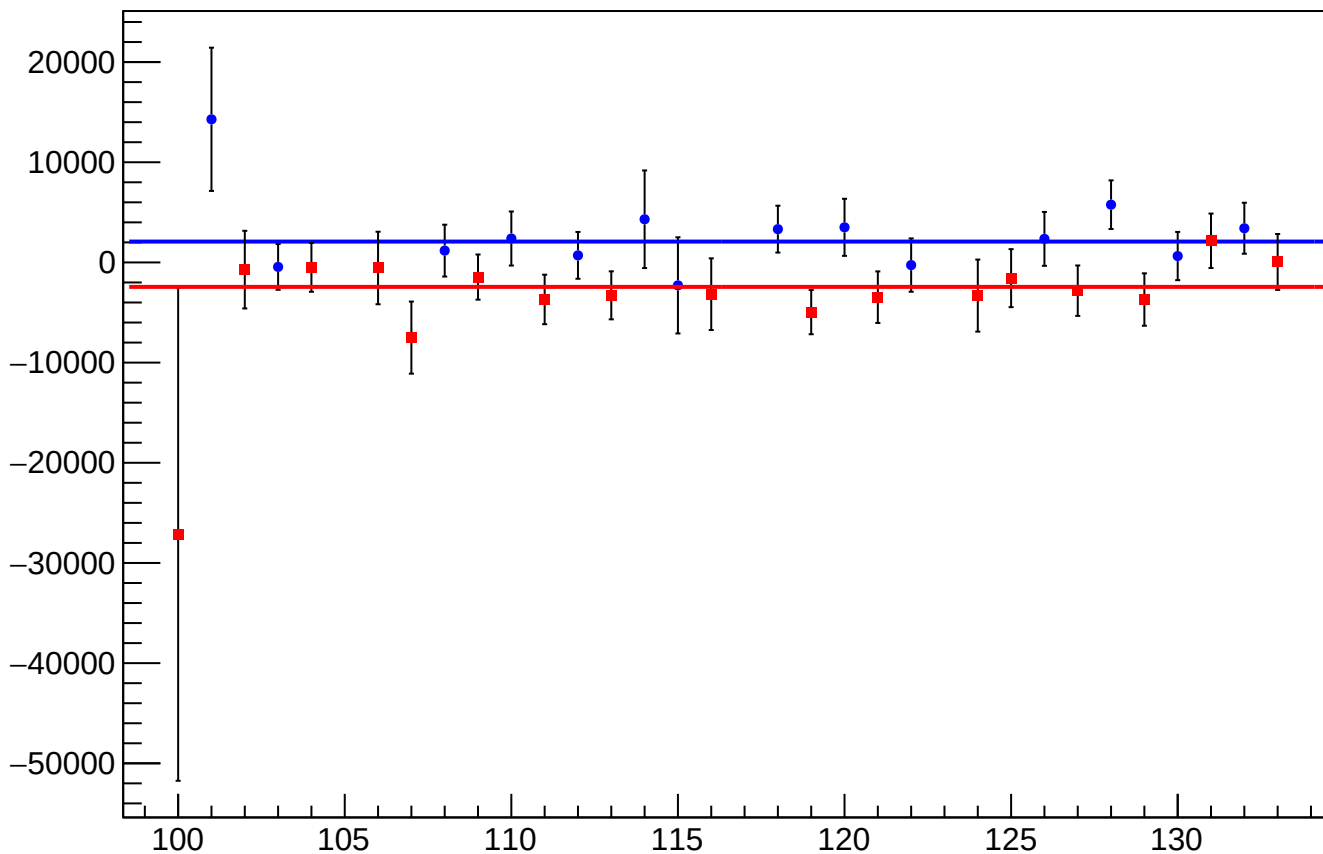
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2817.583+/-0.580  $\chi^2/\text{NDF}$ : 1640291.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atr1l2\_avg\_mean vs Slug



Right In: 2083.257+/-735.487  $\chi^2/\text{NDF}$ : 9.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2440.284+/-686.291  $\chi^2/\text{NDF}$ : 10.2/16

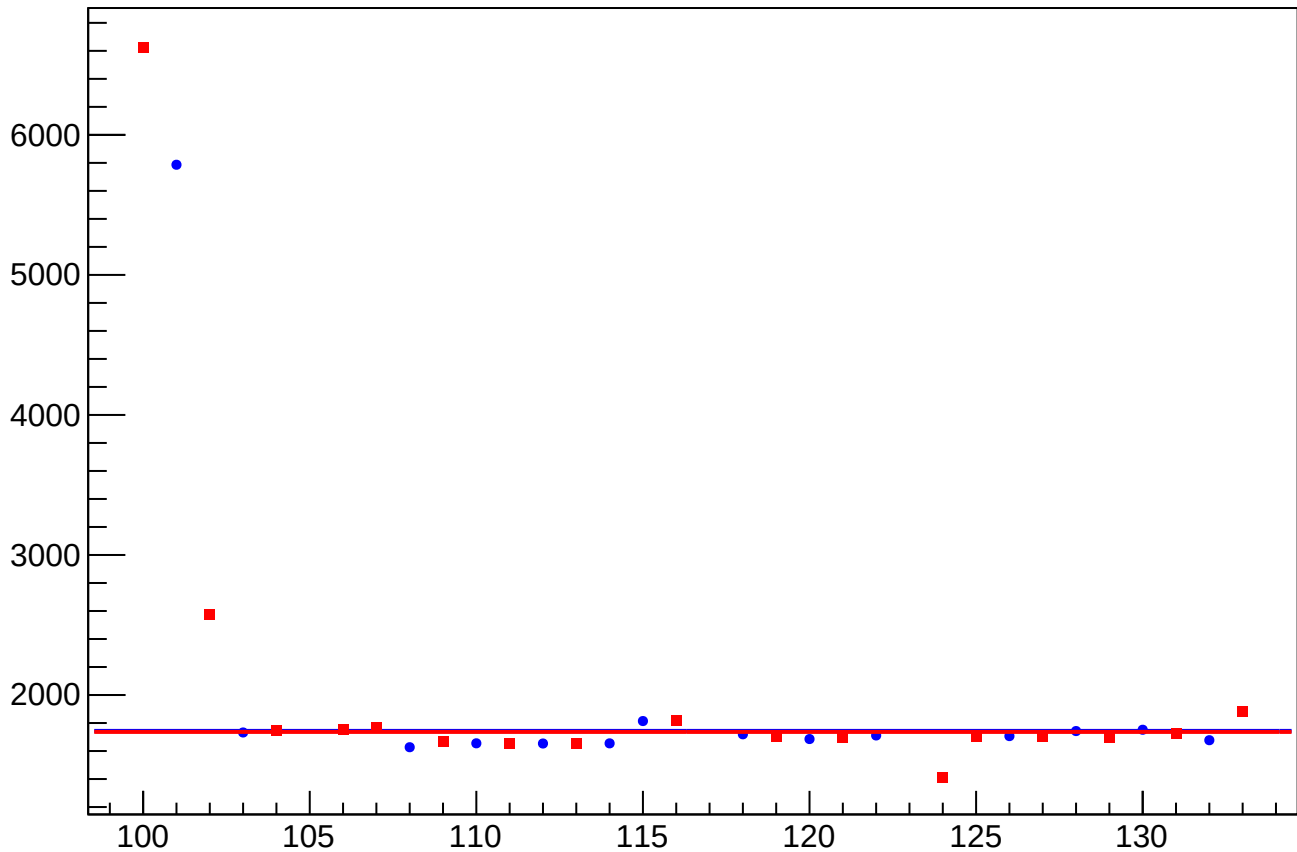
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -334.847+/-501.772  $\chi^2/\text{NDF}$ : 40.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1743.609+/-0.520  $\chi^2/\text{NDF}$ : 652934.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1736.499+/-0.484  $\chi^2/\text{NDF}$ : 203655.5/16

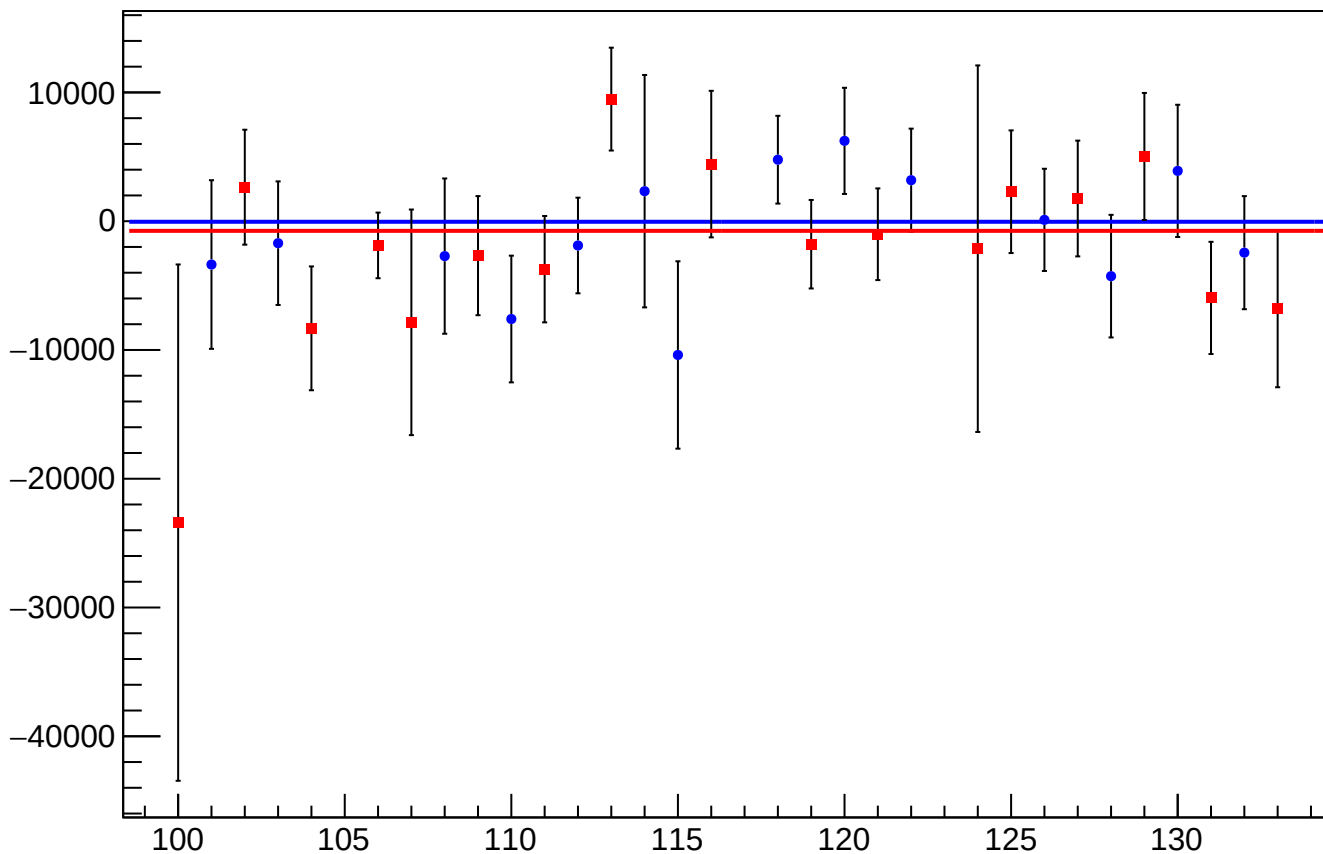
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1739.798+/-0.354  $\chi^2/\text{NDF}$ : 856690.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -44.644+/-1246.095  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -750.188+/-1088.042  $\chi^2$ /NDF: 17.9/16

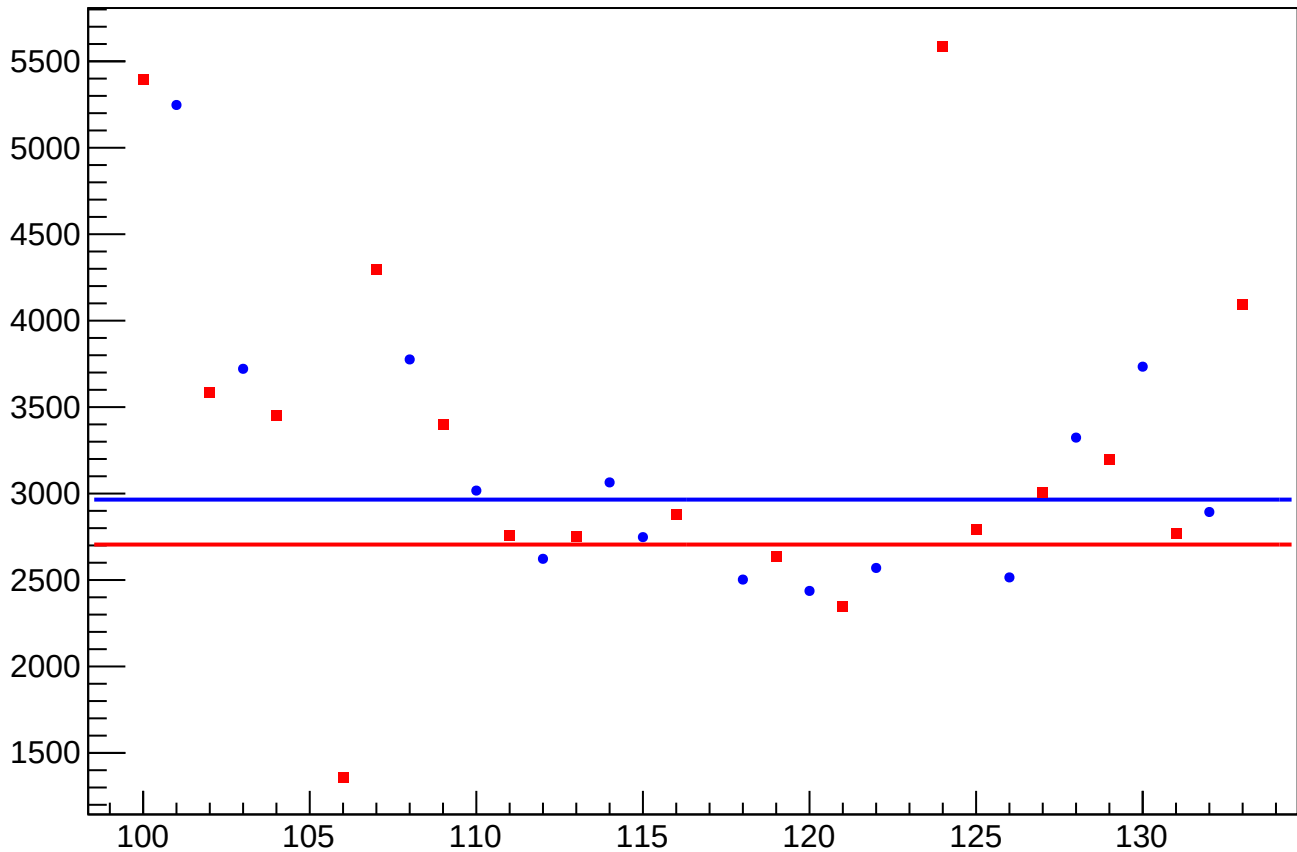
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -444.973+/-819.582  $\chi^2$ /NDF: 30.0/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 2965.067+/-0.881  $\chi^2/\text{NDF}$ : 519695.6/13

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: 2705.119+/-0.769  $\chi^2/\text{NDF}$ : 1071230.5/16

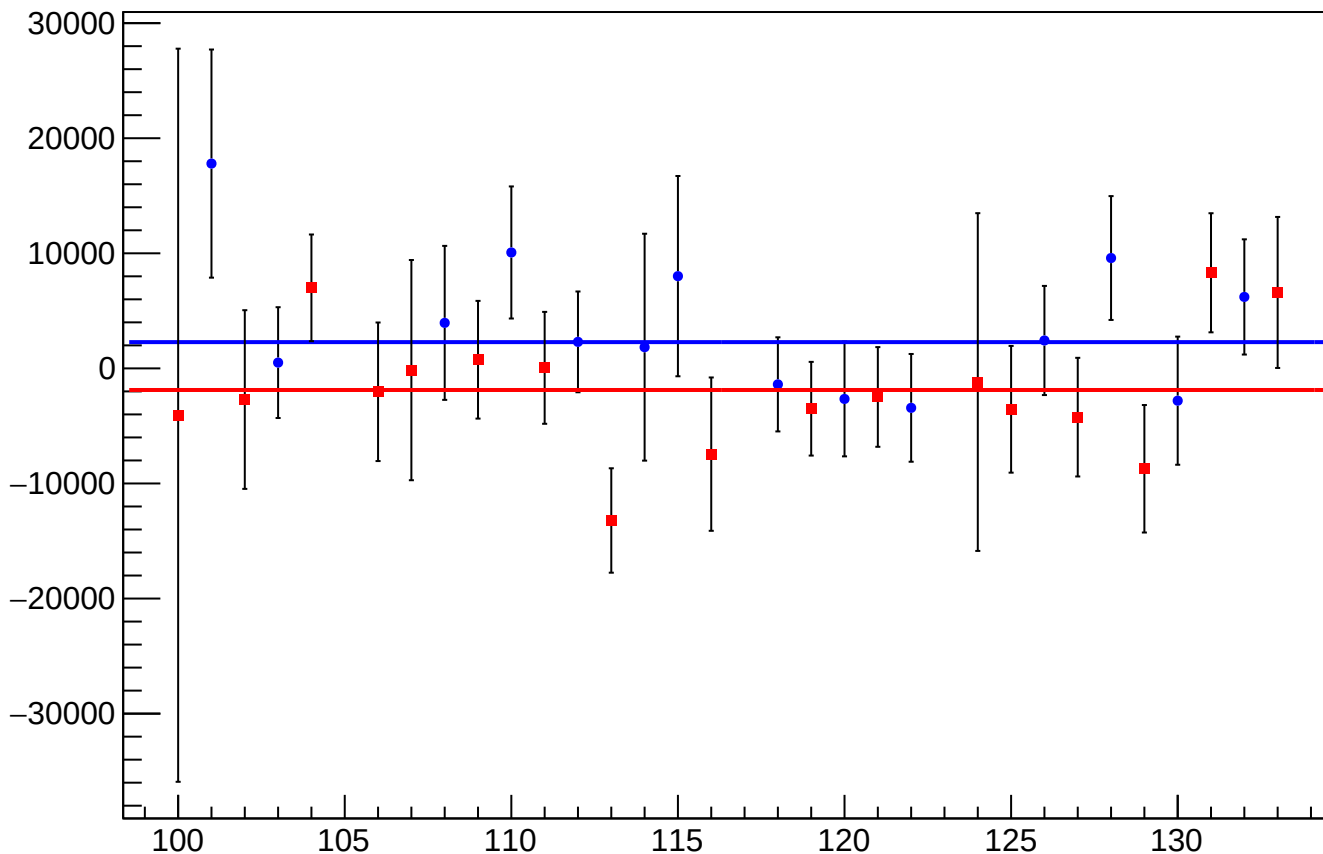
All: 2817.571+/-0.580  $\chi^2/\text{NDF}$ : 1640311.0/30

- 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\_avg\_mean vs Slug



Right In: 2282.441+/-1445.689  $\chi^2/\text{NDF}$ : 11.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1877.417+/-1365.463  $\chi^2/\text{NDF}$ : 18.6/16

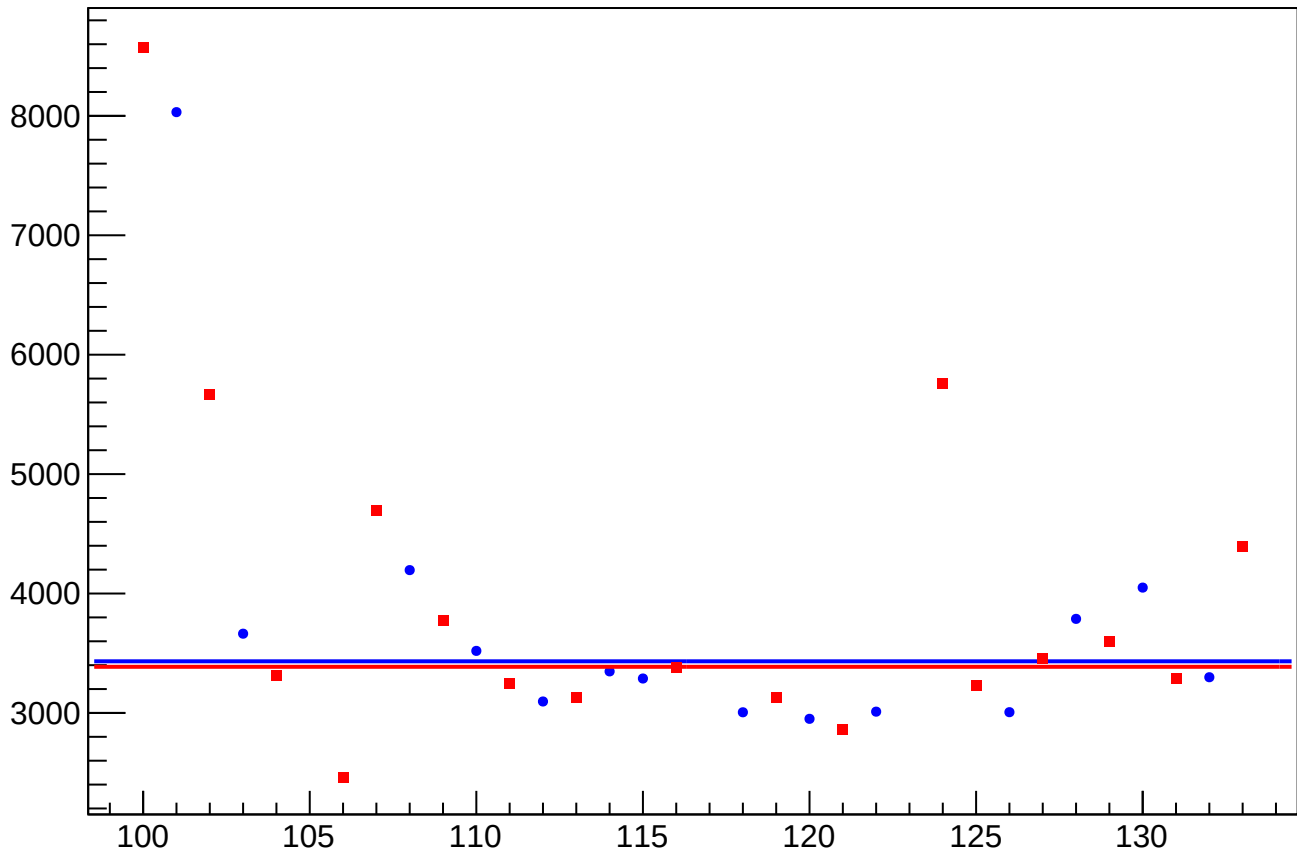
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 83.892+/-992.679  $\chi^2/\text{NDF}$ : 34.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_rms vs Slug



Right In: 3432.350+/-1.022  $\chi^2/\text{NDF}$ : 581704.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3386.399+/-0.950  $\chi^2/\text{NDF}$ : 502247.3/16

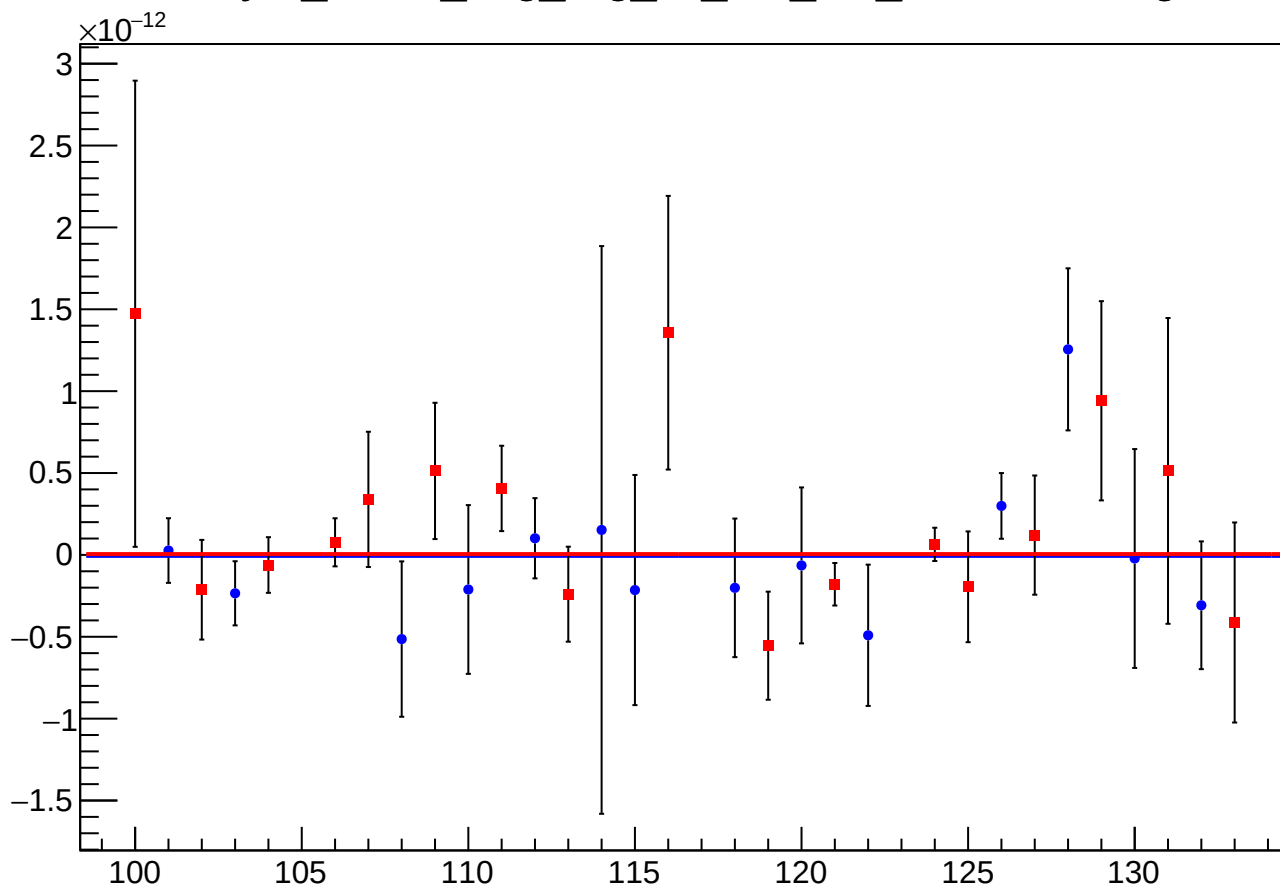
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3407.697+/-0.696  $\chi^2/\text{NDF}$ : 1085036.3/30

- 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+/-0.000  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.6/16

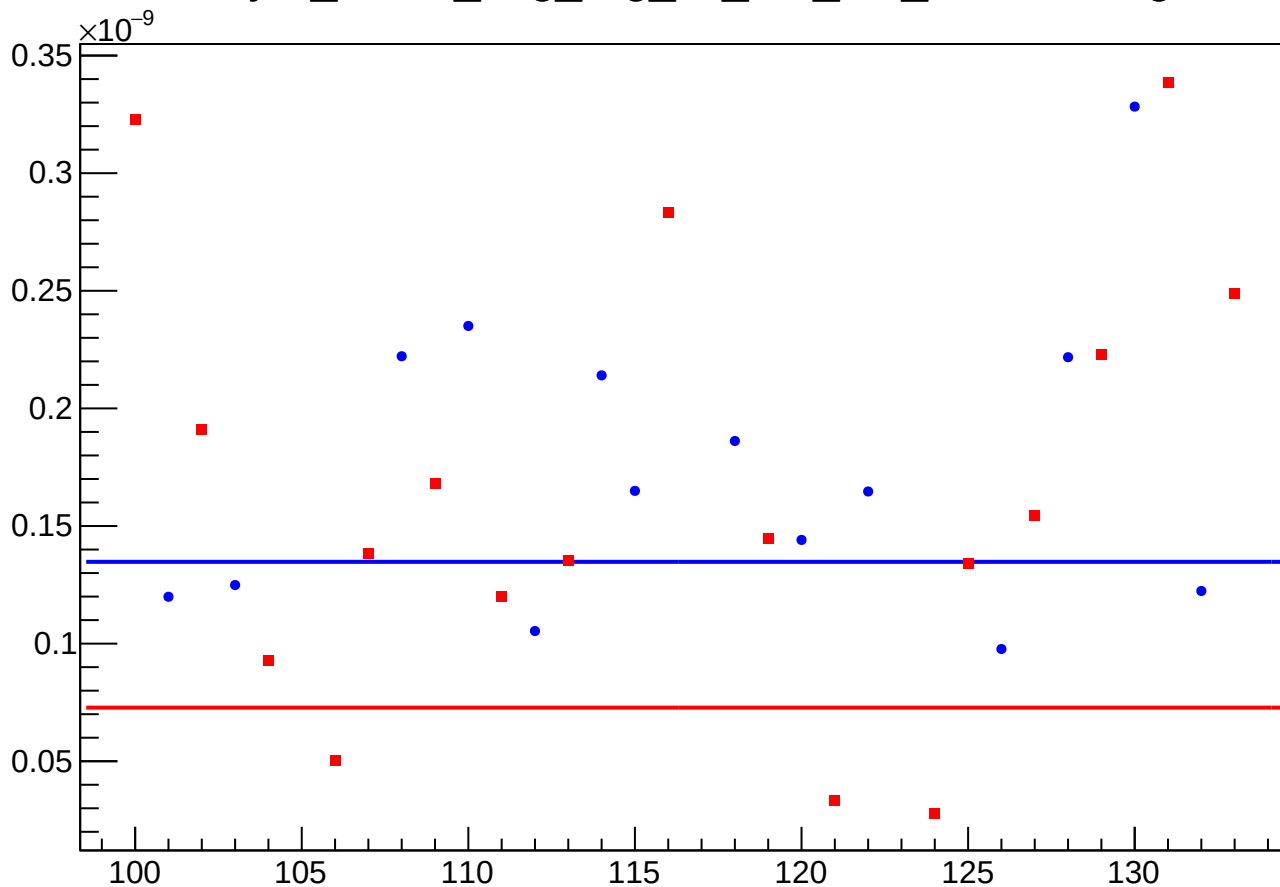
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 32.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 536316.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2171234.2/16

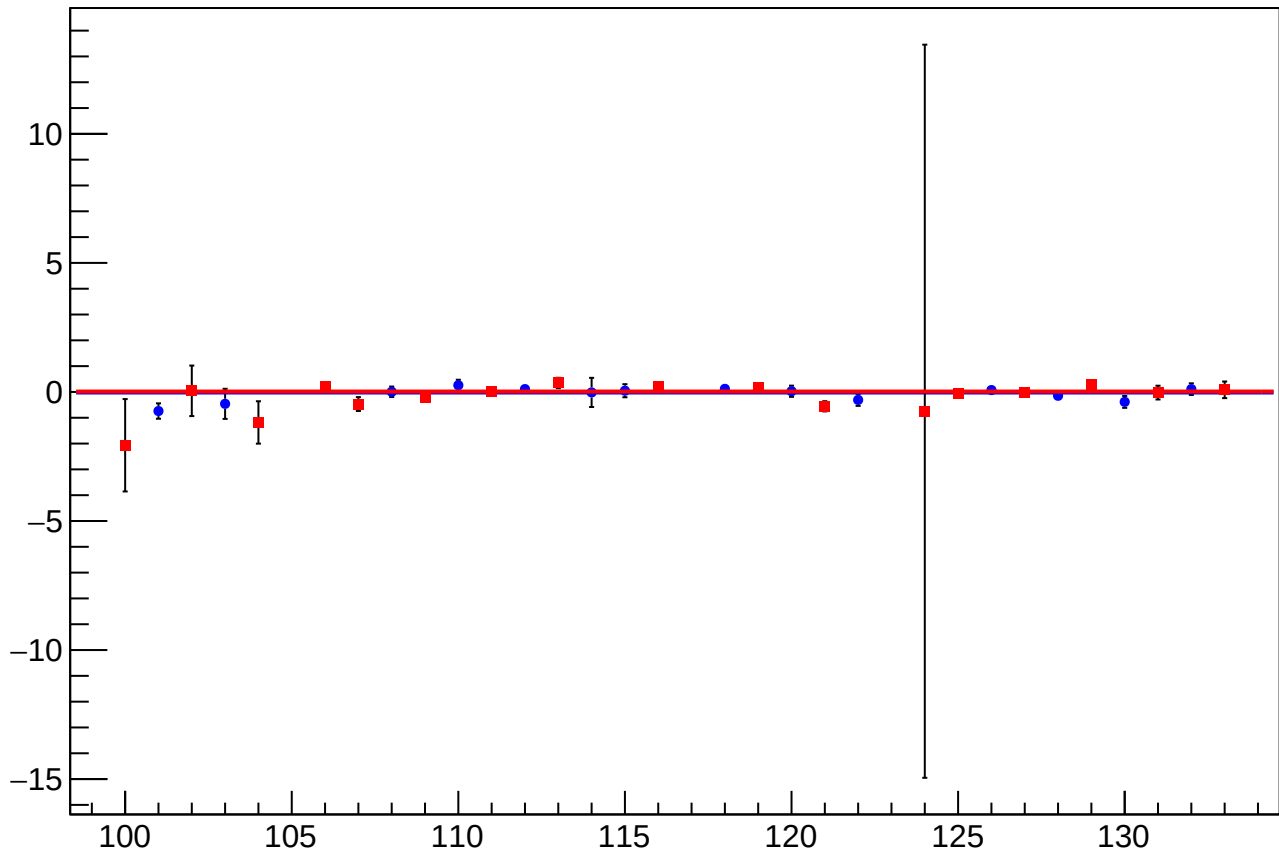
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3425974.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.021 \pm 0.058$   $\chi^2/\text{NDF}$ : 14.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.016 \pm 0.052$   $\chi^2/\text{NDF}$ : 26.5/16

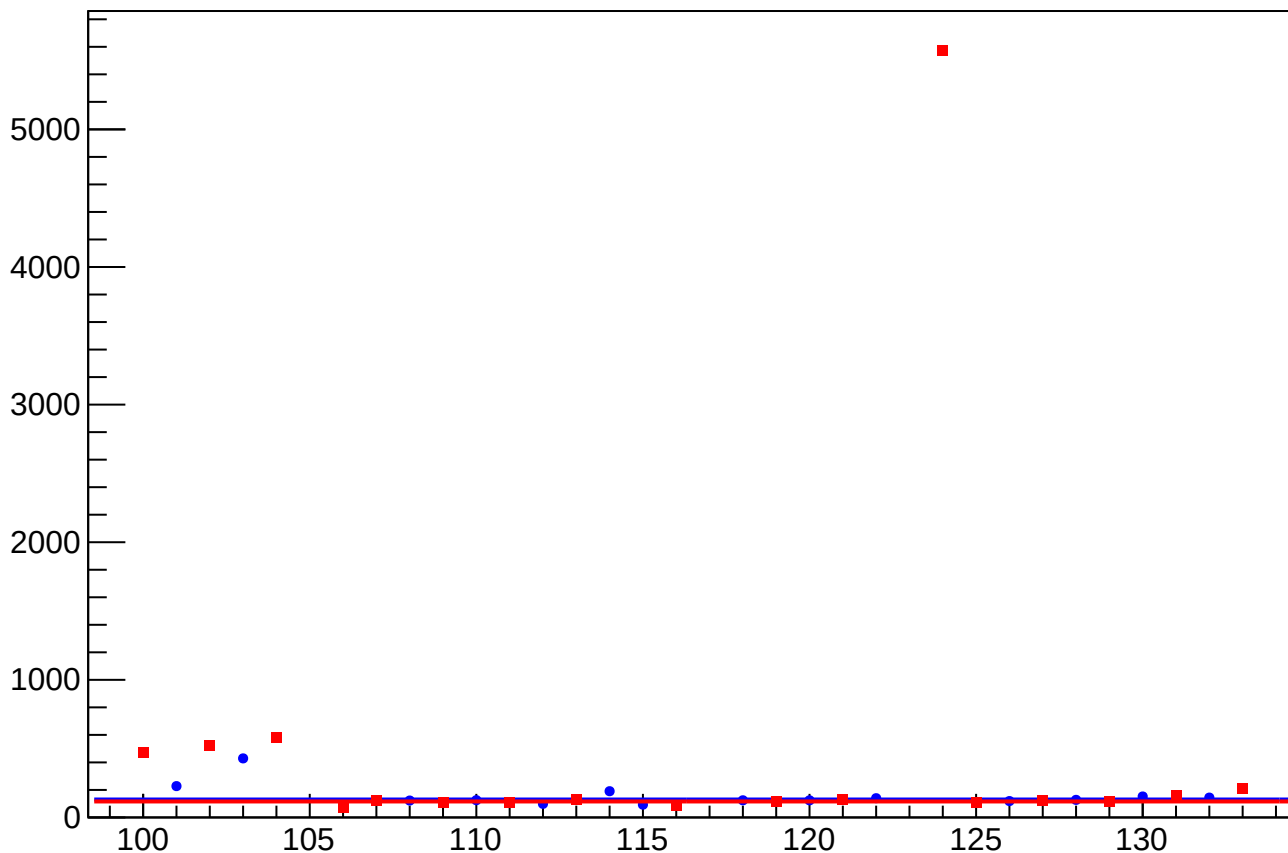
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.039$   $\chi^2/\text{NDF}$ : 41.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 130.432 $\pm$ 0.041  $\chi^2$ /NDF: 939366.4/13

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

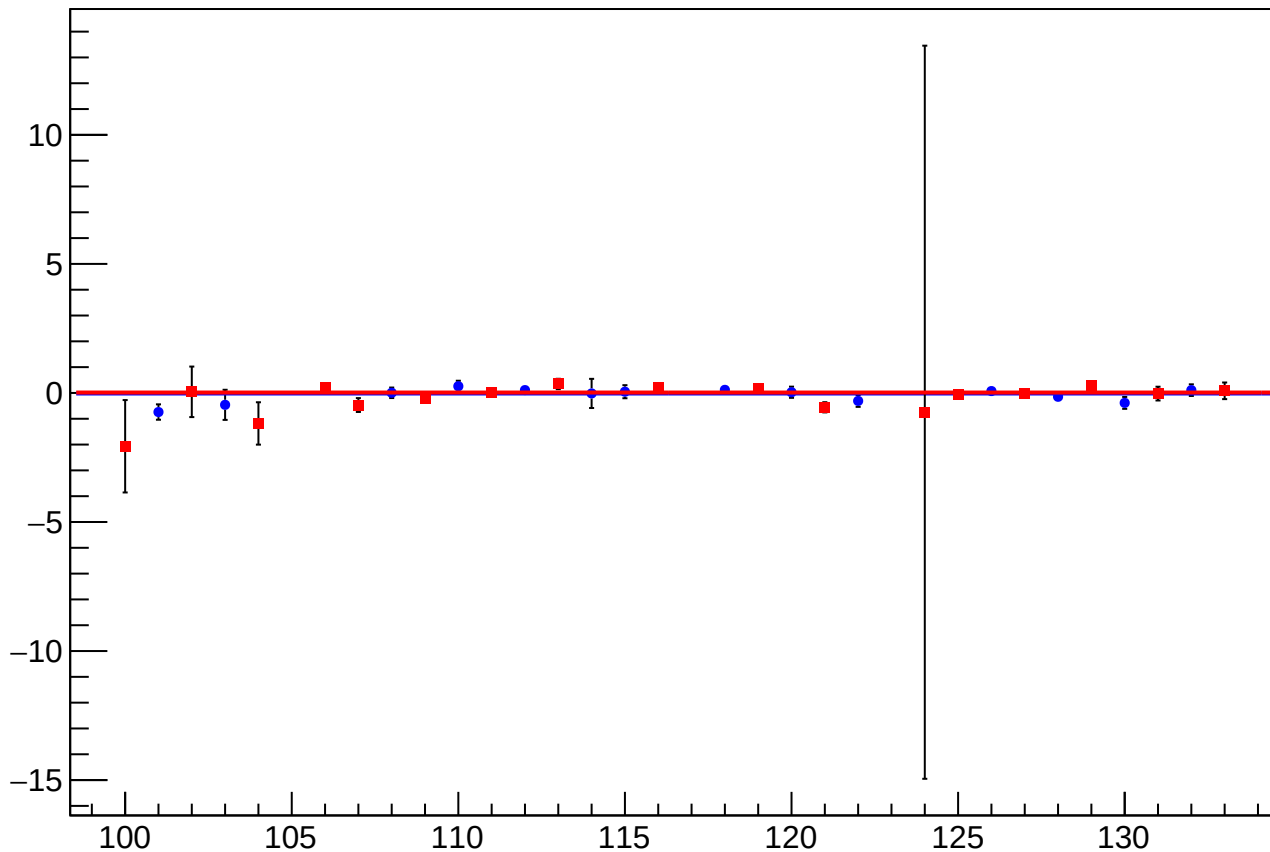
Right Out: 116.198 $\pm$ 0.037  $\chi^2$ /NDF: 1838167.0/16

All: 122.477 $\pm$ 0.027  $\chi^2$ /NDF: 2843814.5/30

- 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\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.021 \pm 0.058$   $\chi^2/\text{NDF}$ : 14.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.016 \pm 0.052$   $\chi^2/\text{NDF}$ : 26.5/16

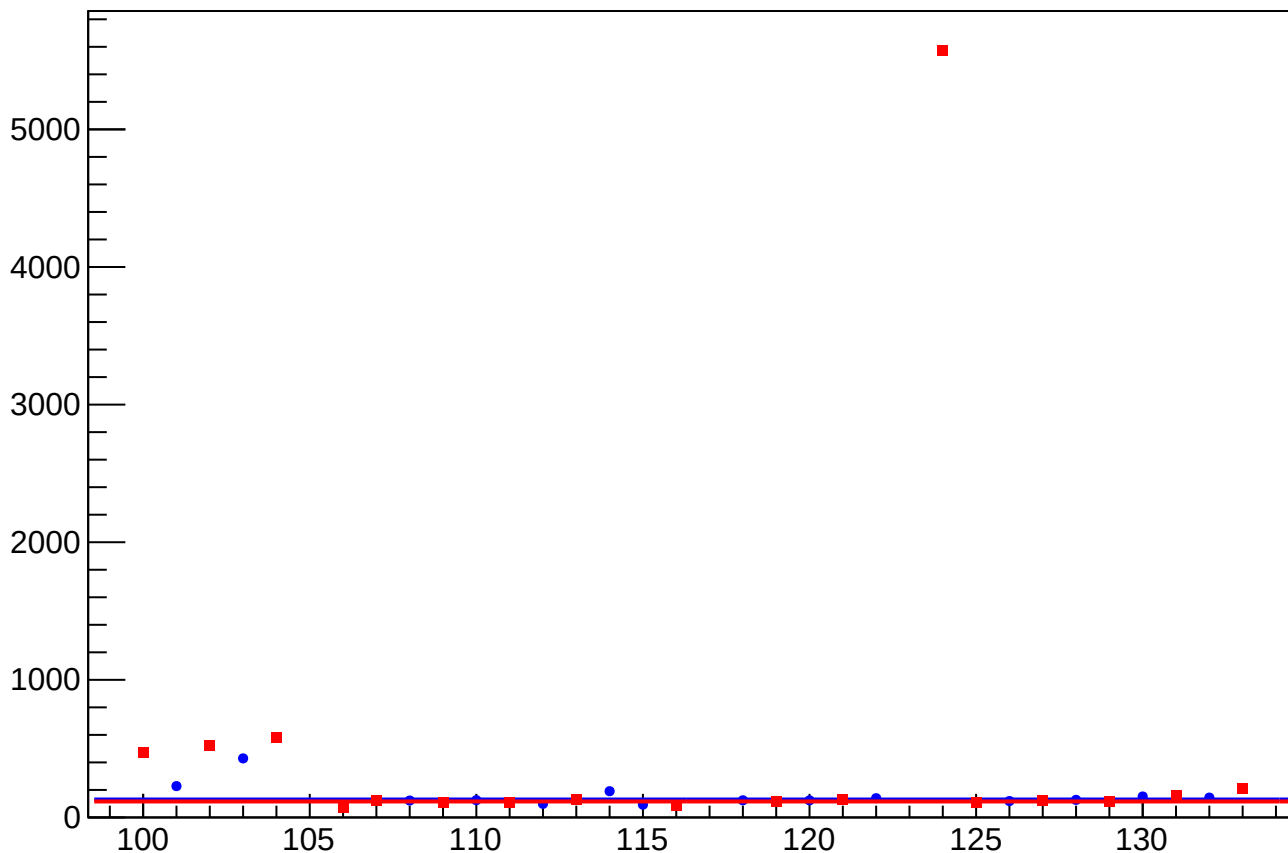
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.039$   $\chi^2/\text{NDF}$ : 41.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 130.432 $\pm$ 0.041  $\chi^2$ /NDF: 939366.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 116.198 $\pm$ 0.037  $\chi^2$ /NDF: 1838167.0/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

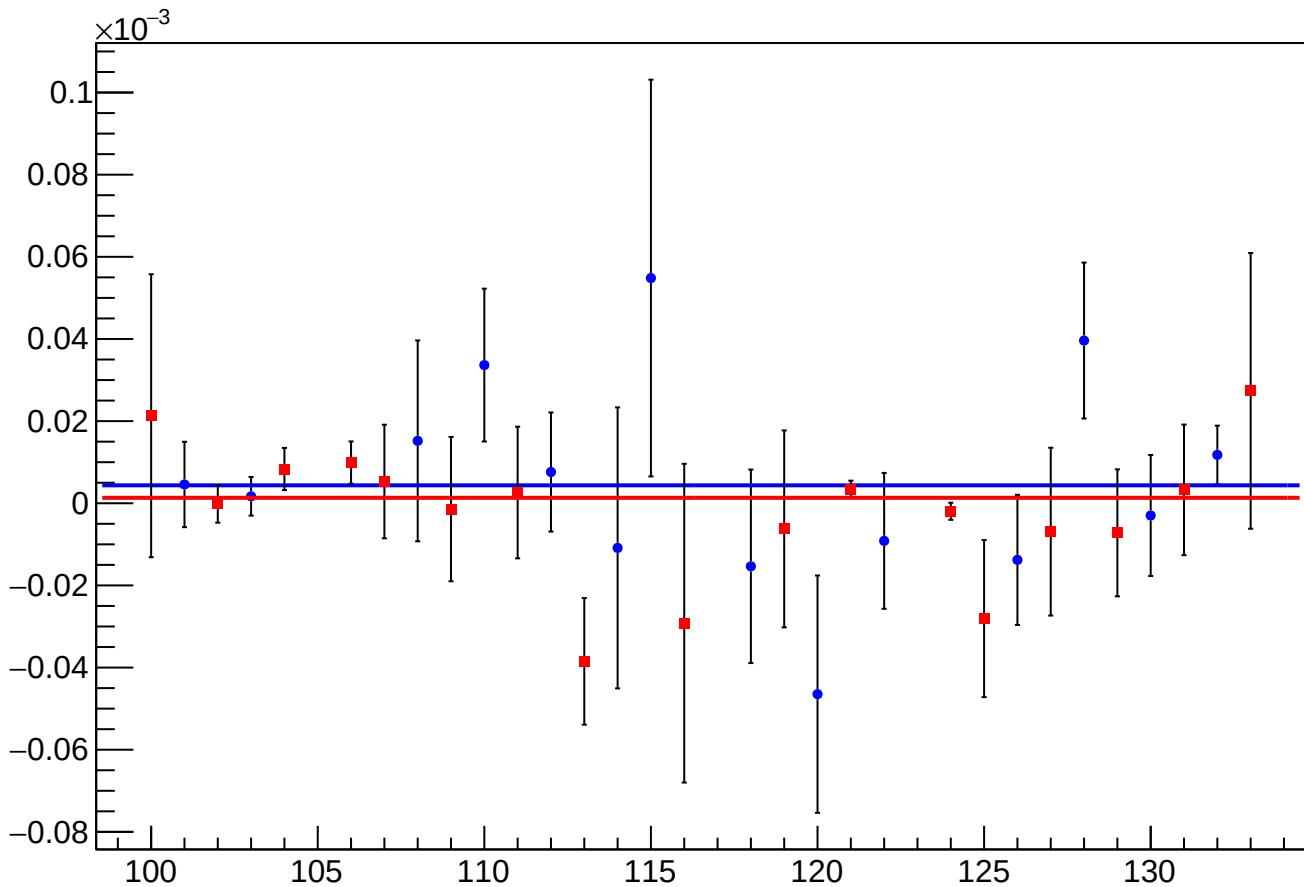
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 122.477 $\pm$ 0.027  $\chi^2$ /NDF: 2843814.5/30

- 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: 14.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.6/16

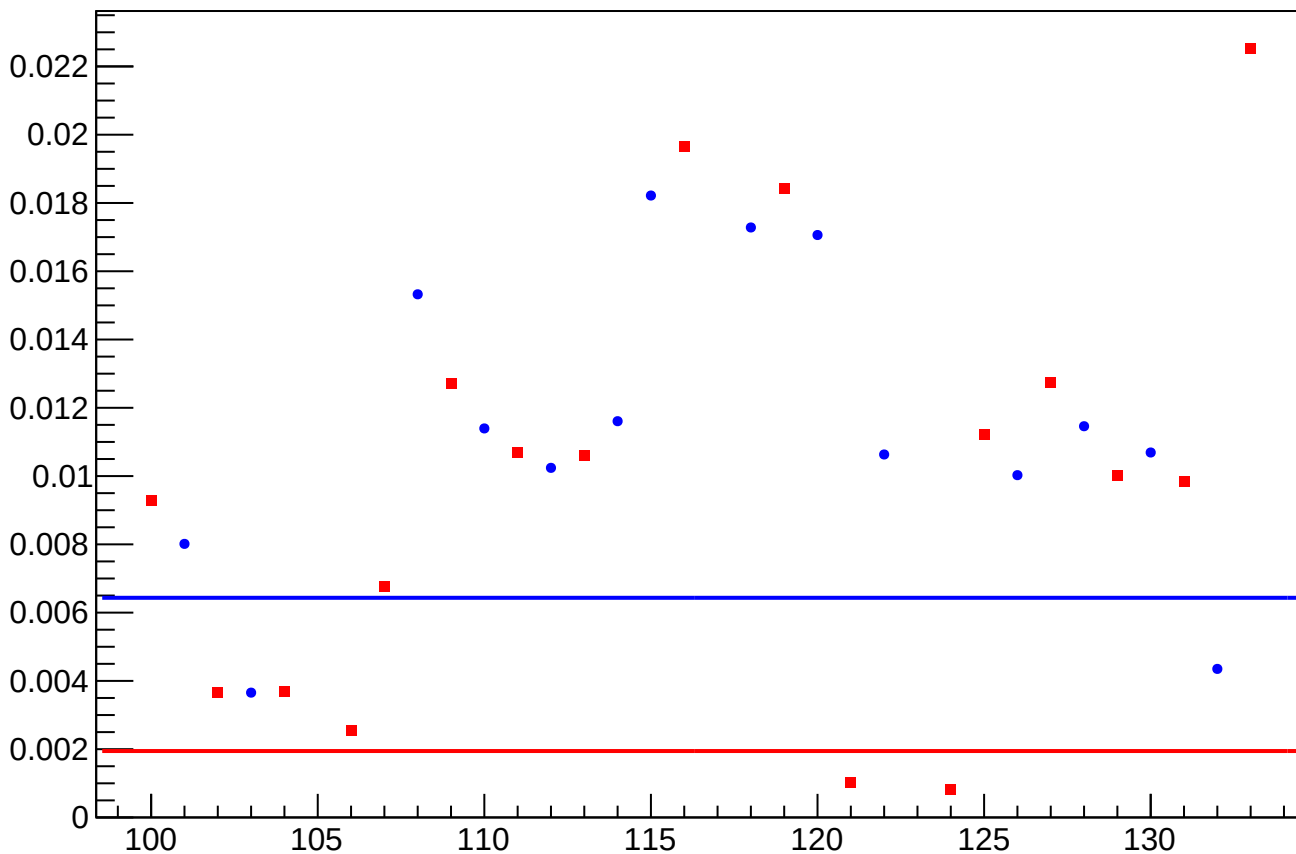
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 35.3/30

- 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  $\chi^2/\text{NDF}$ : 2859477.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 8045271.0/16

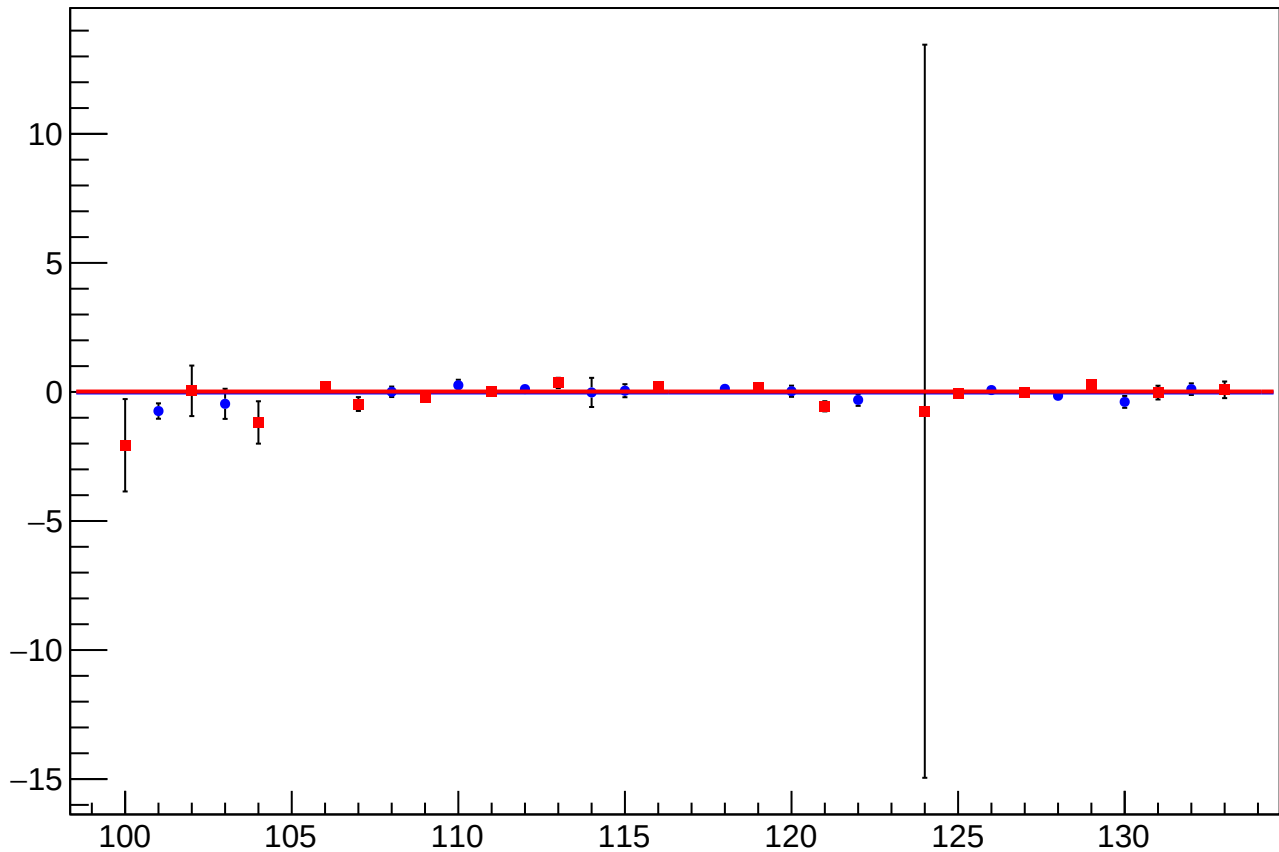
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 14467944.0/30

- 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:  $-0.021 \pm 0.058$   $\chi^2/\text{NDF}$ : 14.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.016 \pm 0.052$   $\chi^2/\text{NDF}$ : 26.5/16

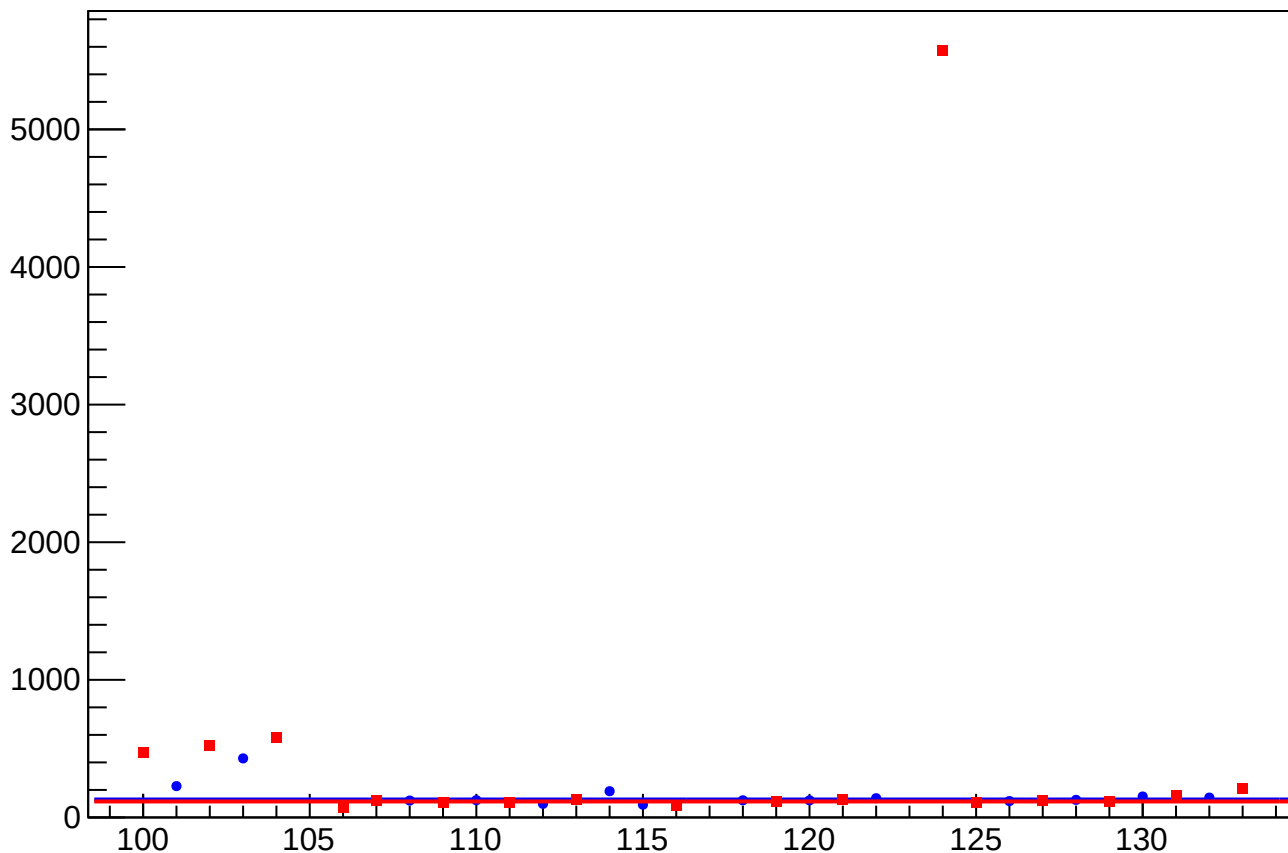
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.039$   $\chi^2/\text{NDF}$ : 41.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 130.433+/-0.041  $\chi^2/\text{NDF}$ : 939304.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 116.199+/-0.037  $\chi^2/\text{NDF}$ : 1838082.4/16

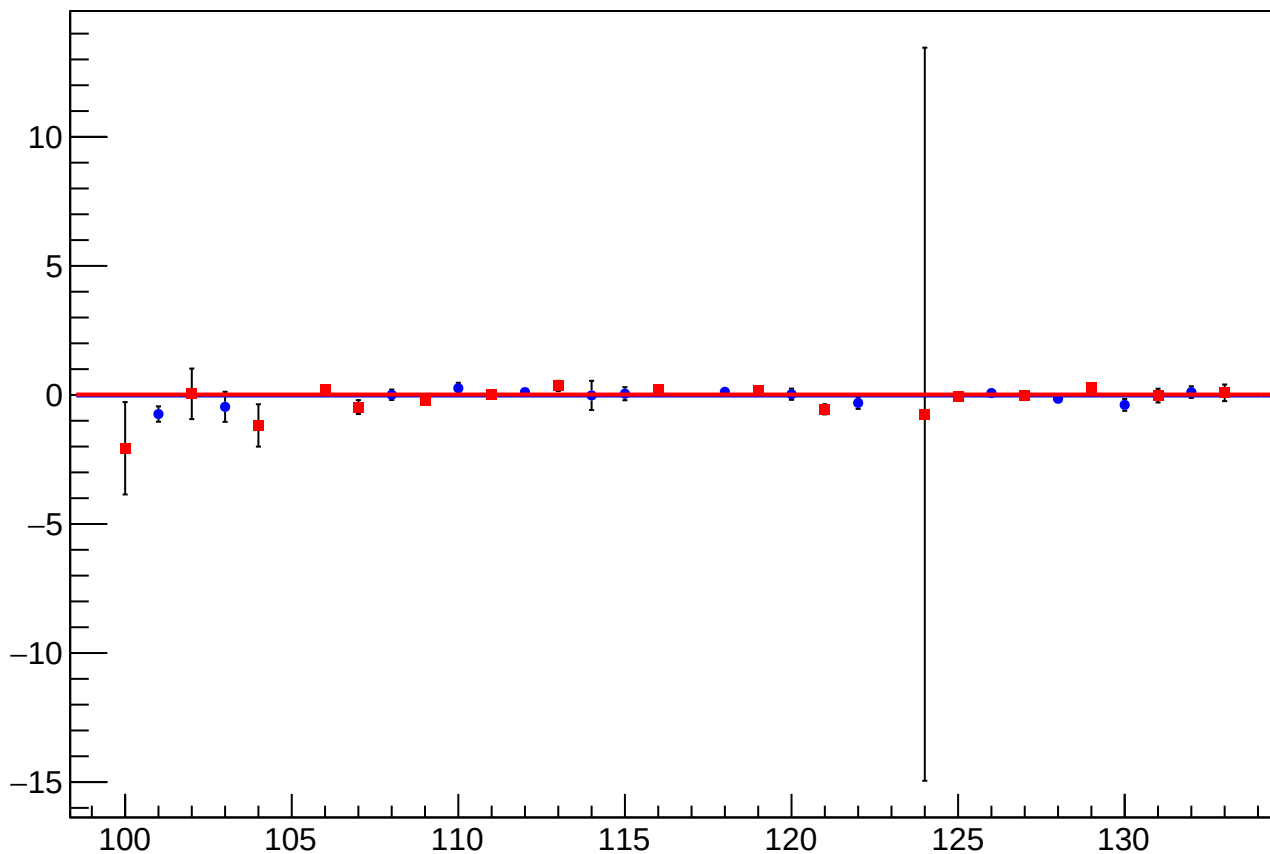
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 122.477+/-0.027  $\chi^2/\text{NDF}$ : 2843675.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.021 \pm 0.058$   $\chi^2/\text{NDF}$ : 14.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.016 \pm 0.052$   $\chi^2/\text{NDF}$ : 26.5/16

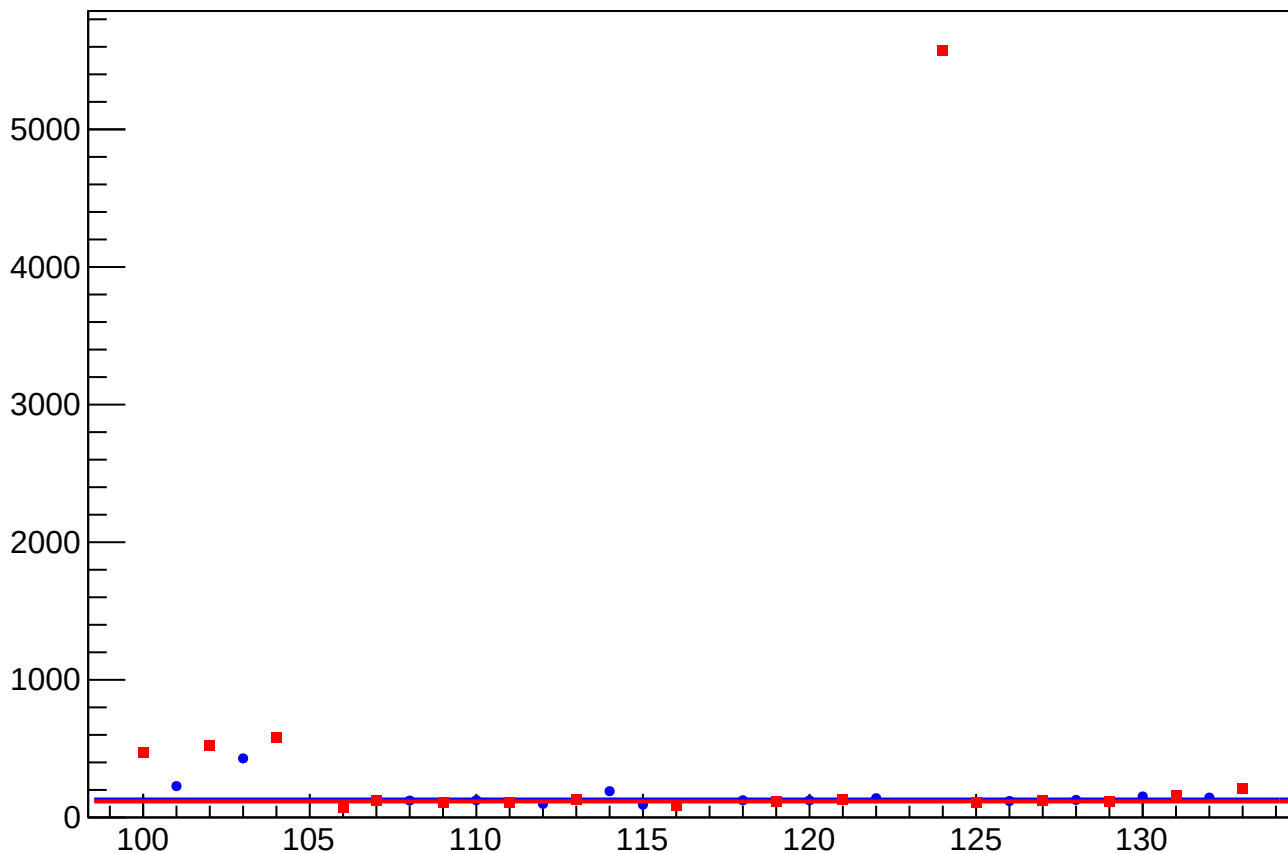
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.039$   $\chi^2/\text{NDF}$ : 41.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 130.433+/-0.041  $\chi^2/\text{NDF}$ : 939304.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 116.199+/-0.037  $\chi^2/\text{NDF}$ : 1838082.4/16

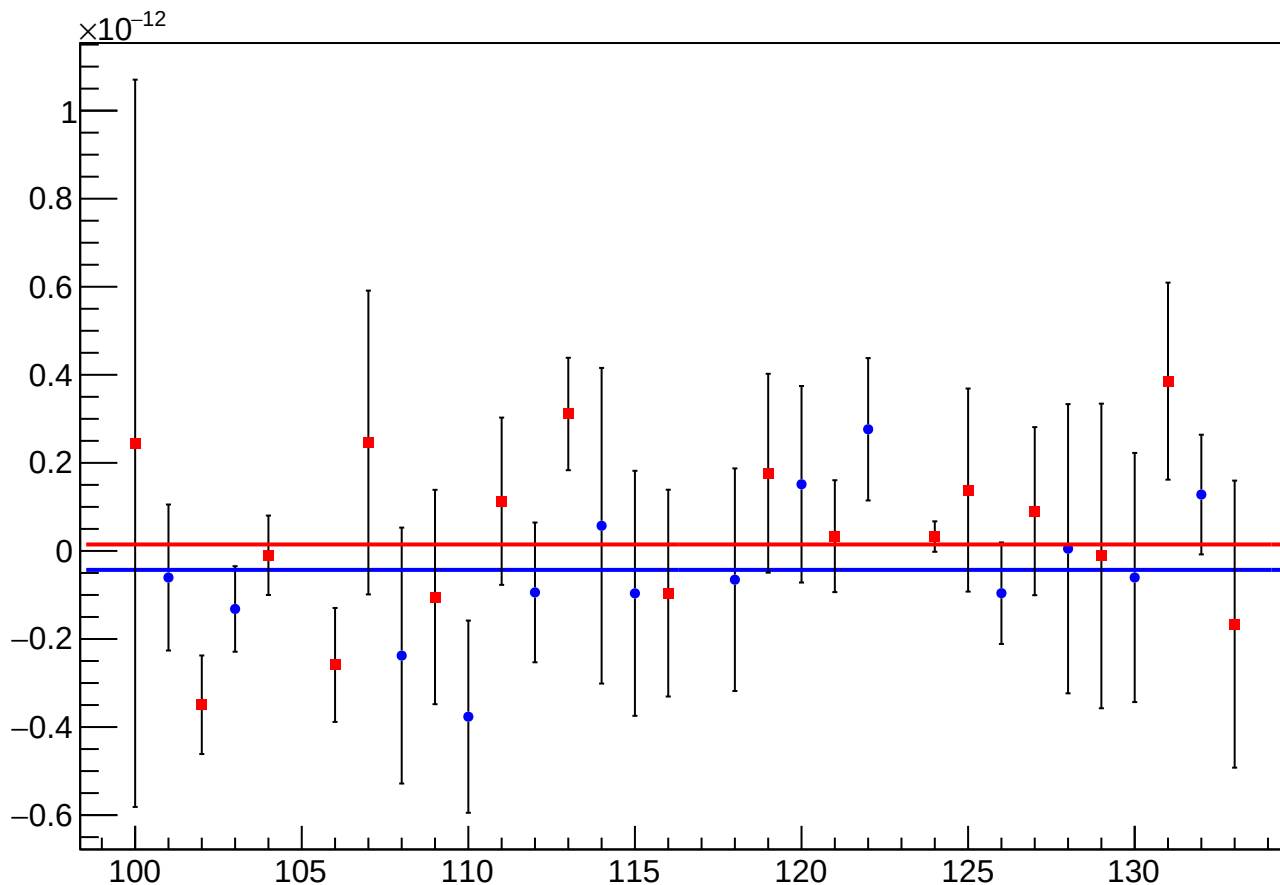
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 122.477+/-0.027  $\chi^2/\text{NDF}$ : 2843675.9/30

- 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+/-0.000  $\chi^2/\text{NDF}$ : 10.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 26.1/16

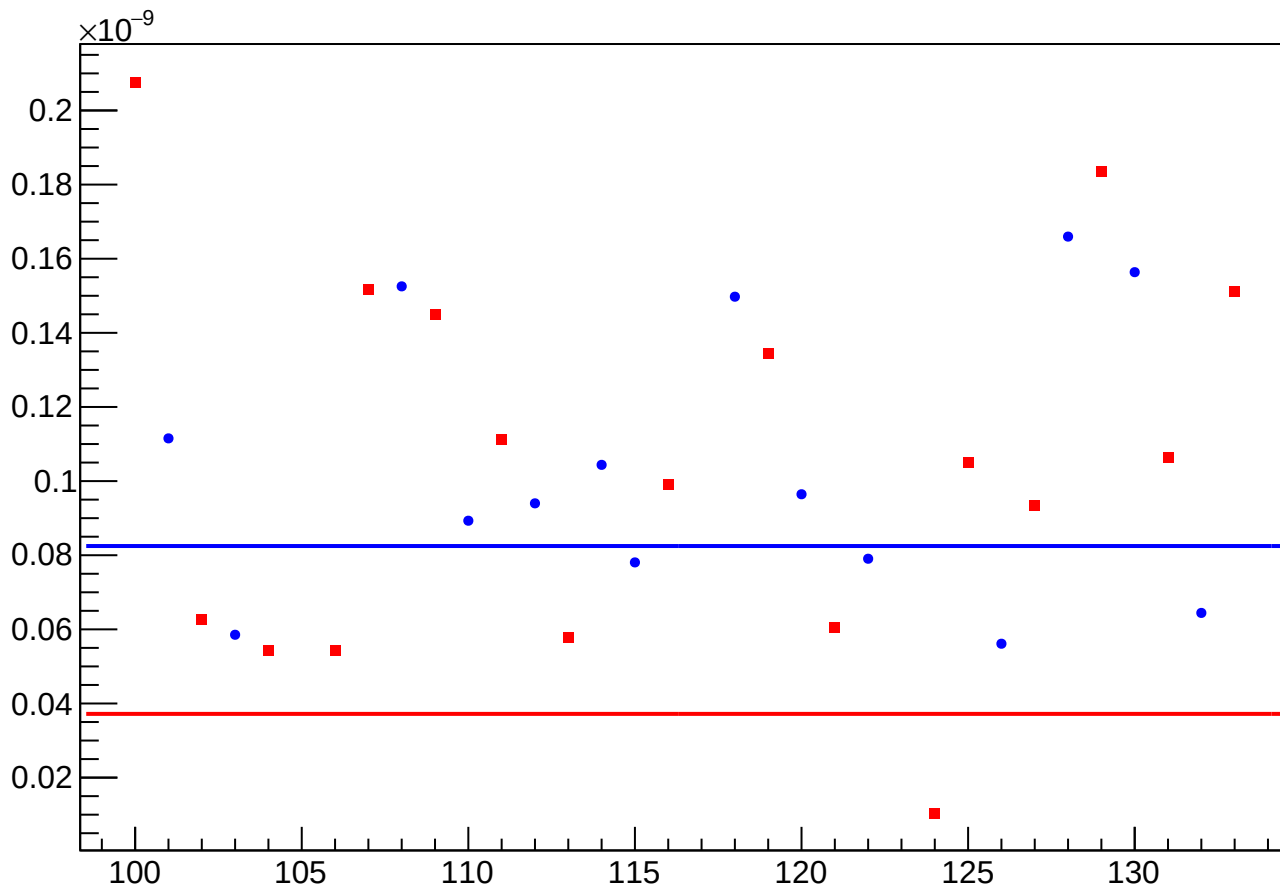
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 37.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 875316.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4197544.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

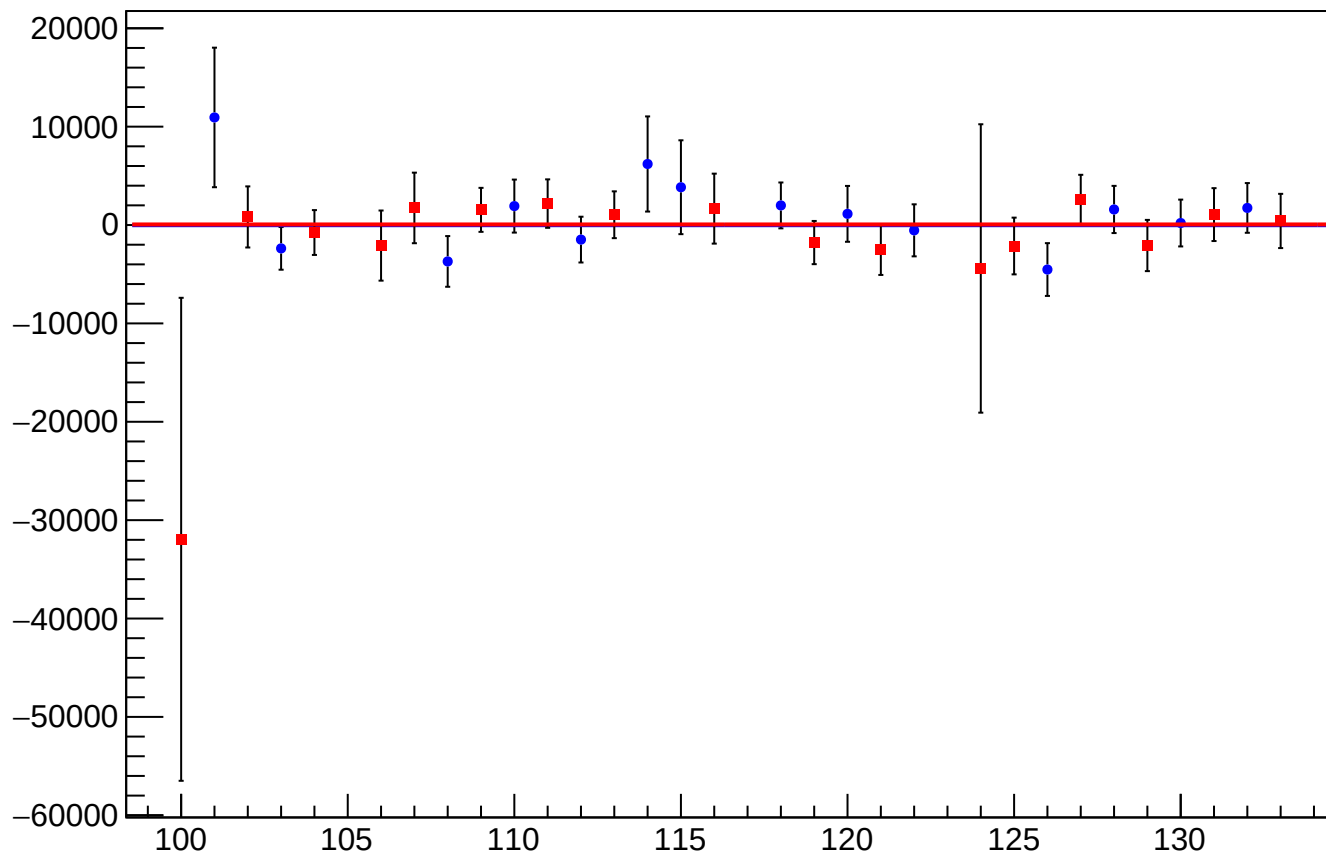
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6494178.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -17.811+/-727.512  $\chi^2/\text{NDF}$ : 13.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 58.130+/-684.022  $\chi^2/\text{NDF}$ : 8.3/16

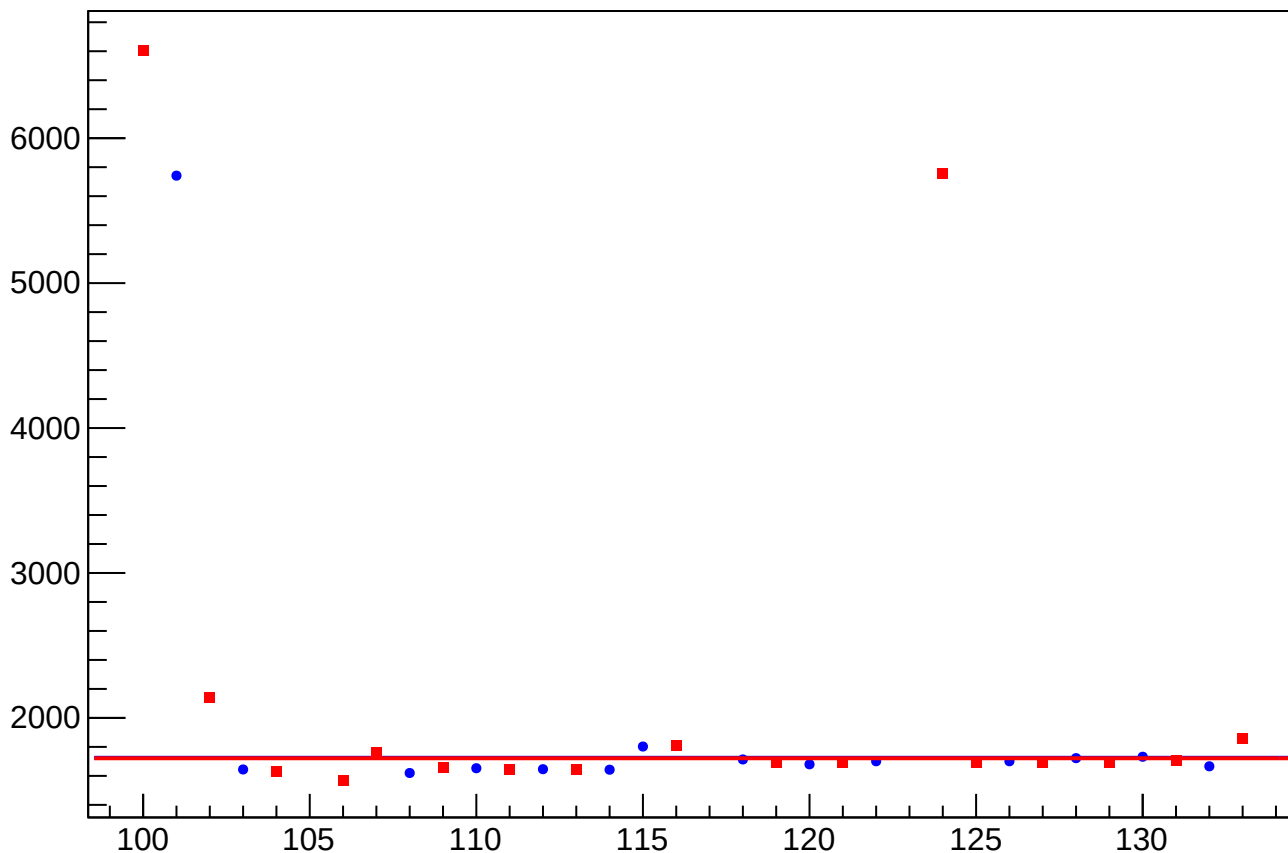
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.497+/-498.343  $\chi^2/\text{NDF}$ : 21.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1724.642 $\pm$ 0.514  $\chi^2$ /NDF: 654276.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1721.643 $\pm$ 0.480  $\chi^2$ /NDF: 289143.6/16

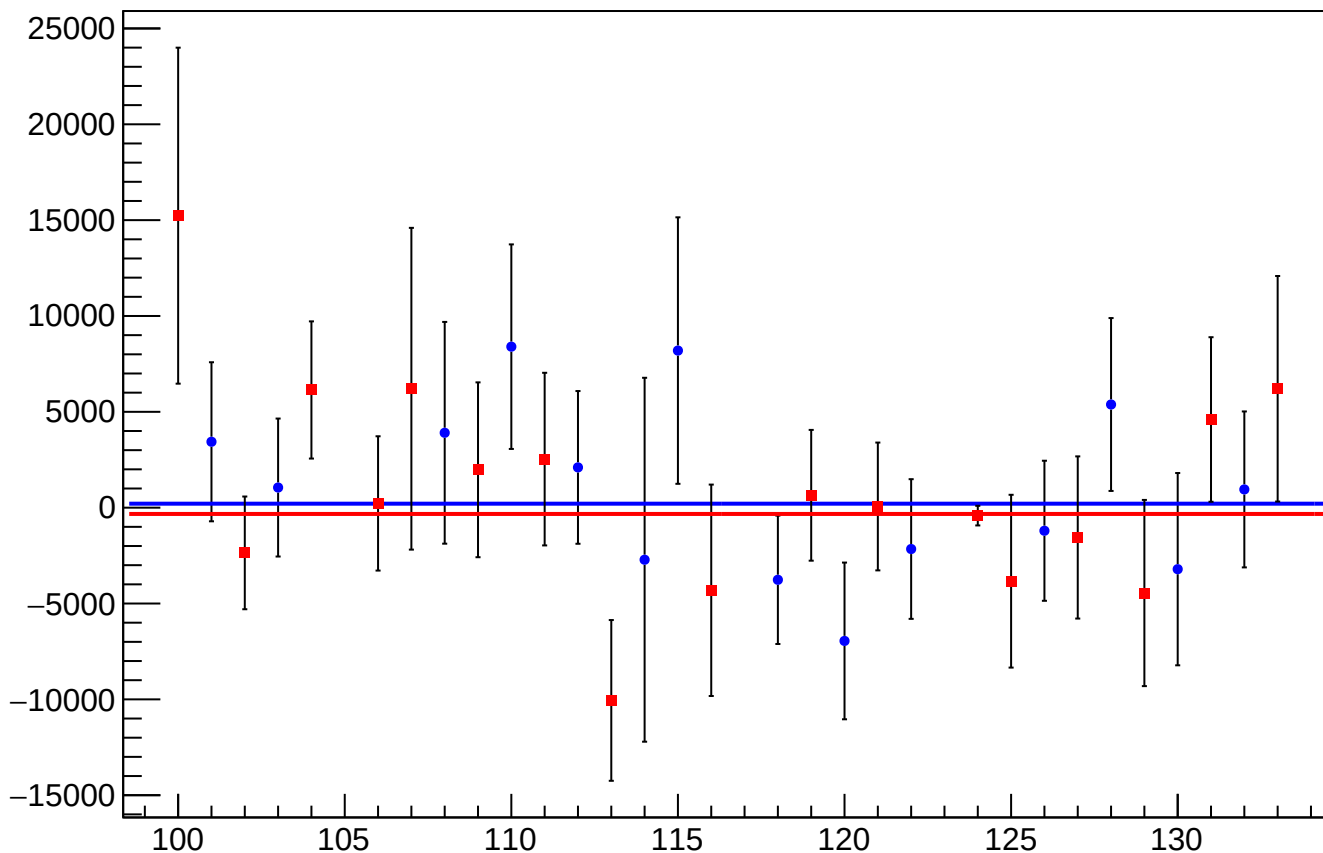
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1723.038 $\pm$ 0.351  $\chi^2$ /NDF: 943438.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_dd\_reg\_correction\_mean vs Slug



Right In: 208.097 $\pm$ 1159.538  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -327.384 $\pm$ 460.386  $\chi^2$ /NDF: 18.2/16

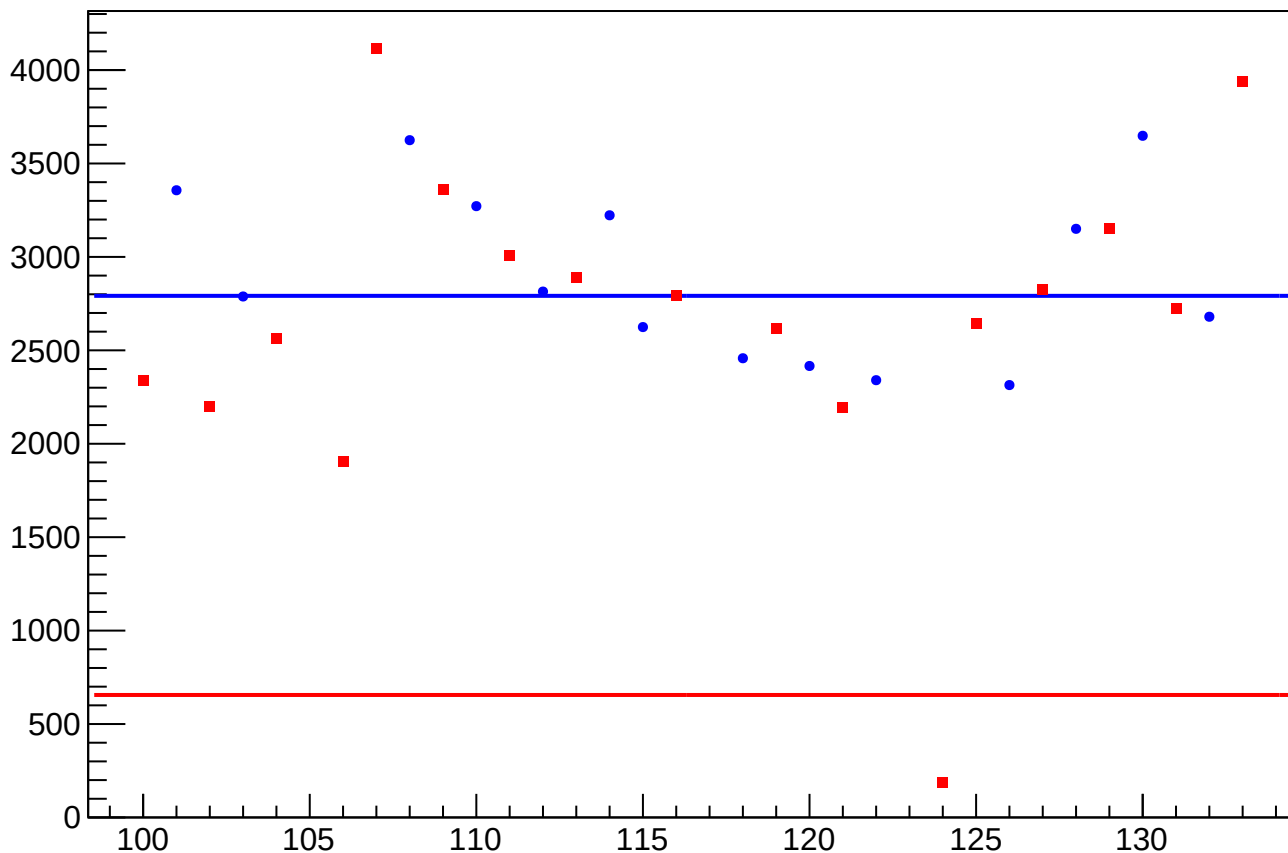
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -254.464 $\pm$ 427.893  $\chi^2$ /NDF: 30.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_dd\_reg\_correction\_rms vs Slug



Right In: 2791.648 $\pm$ 0.820  $\chi^2$ /NDF: 274245.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 655.521 $\pm$ 0.326  $\chi^2$ /NDF: 9187795.7/16

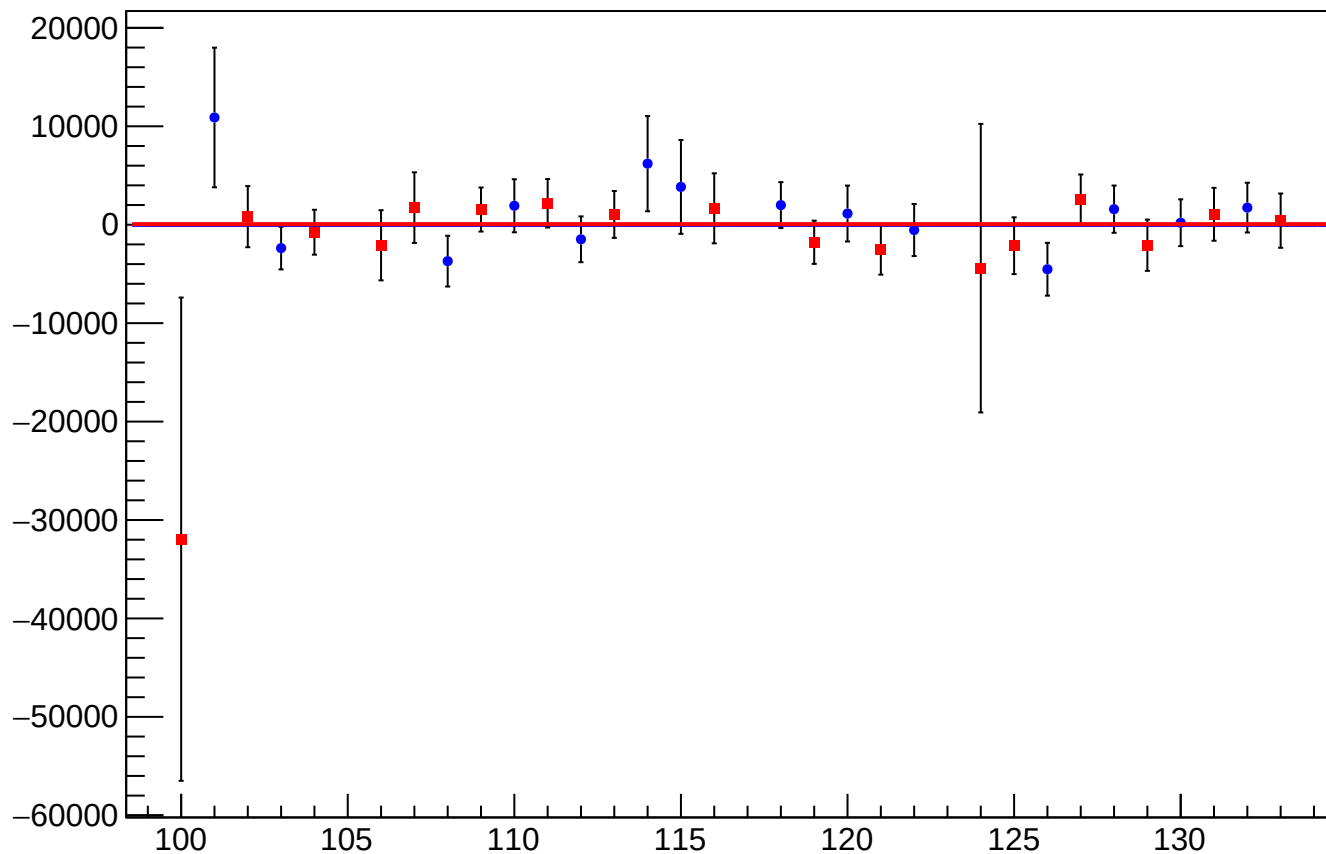
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 946.409 $\pm$ 0.303  $\chi^2$ /NDF: 15325308.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -18.402 $\pm$ 727.512  $\chi^2$ /NDF: 13.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 57.981 $\pm$ 684.022  $\chi^2$ /NDF: 8.3/16

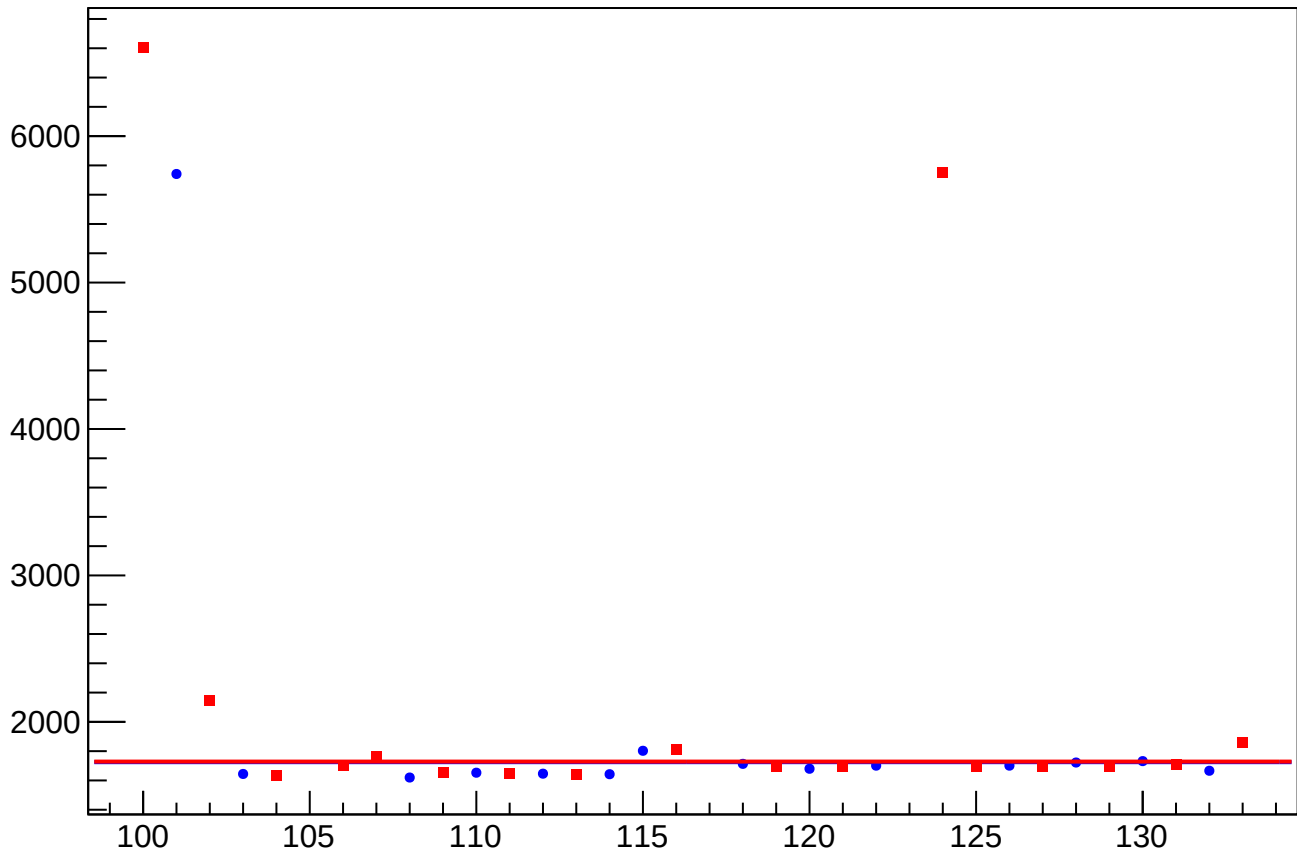
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 22.140 $\pm$ 498.343  $\chi^2$ /NDF: 21.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1724.642 $\pm$ 0.514  $\chi^2$ /NDF: 654276.6/13

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

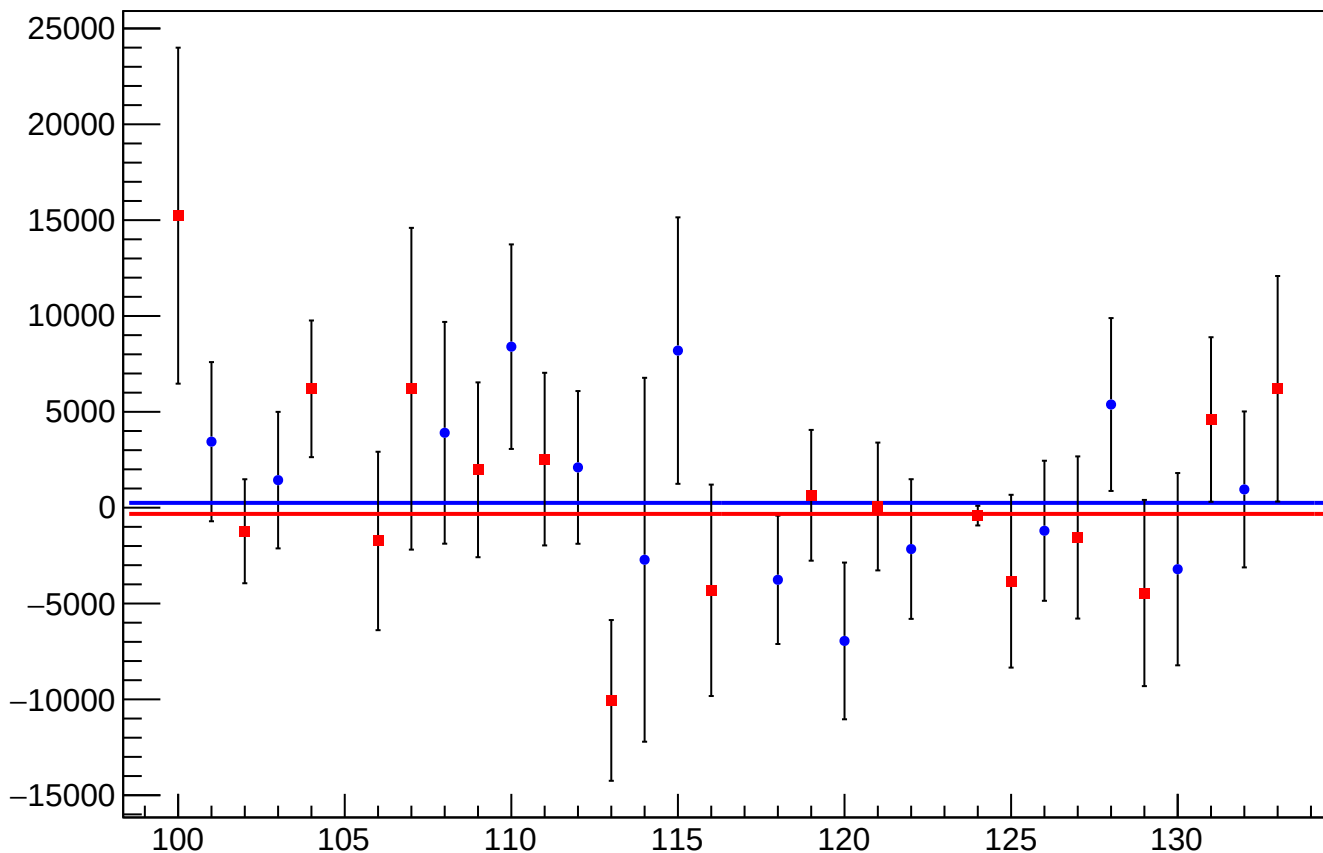
Right Out: 1728.800 $\pm$ 0.482  $\chi^2$ /NDF: 283667.9/16

All: 1726.858 $\pm$ 0.352  $\chi^2$ /NDF: 937979.3/30

- 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\_cor\_correction\_mean vs Slug



Right In: 250.750 $\pm$ 1158.326  $\chi^2$ /NDF: 12.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -324.973 $\pm$ 461.315  $\chi^2$ /NDF: 18.0/16

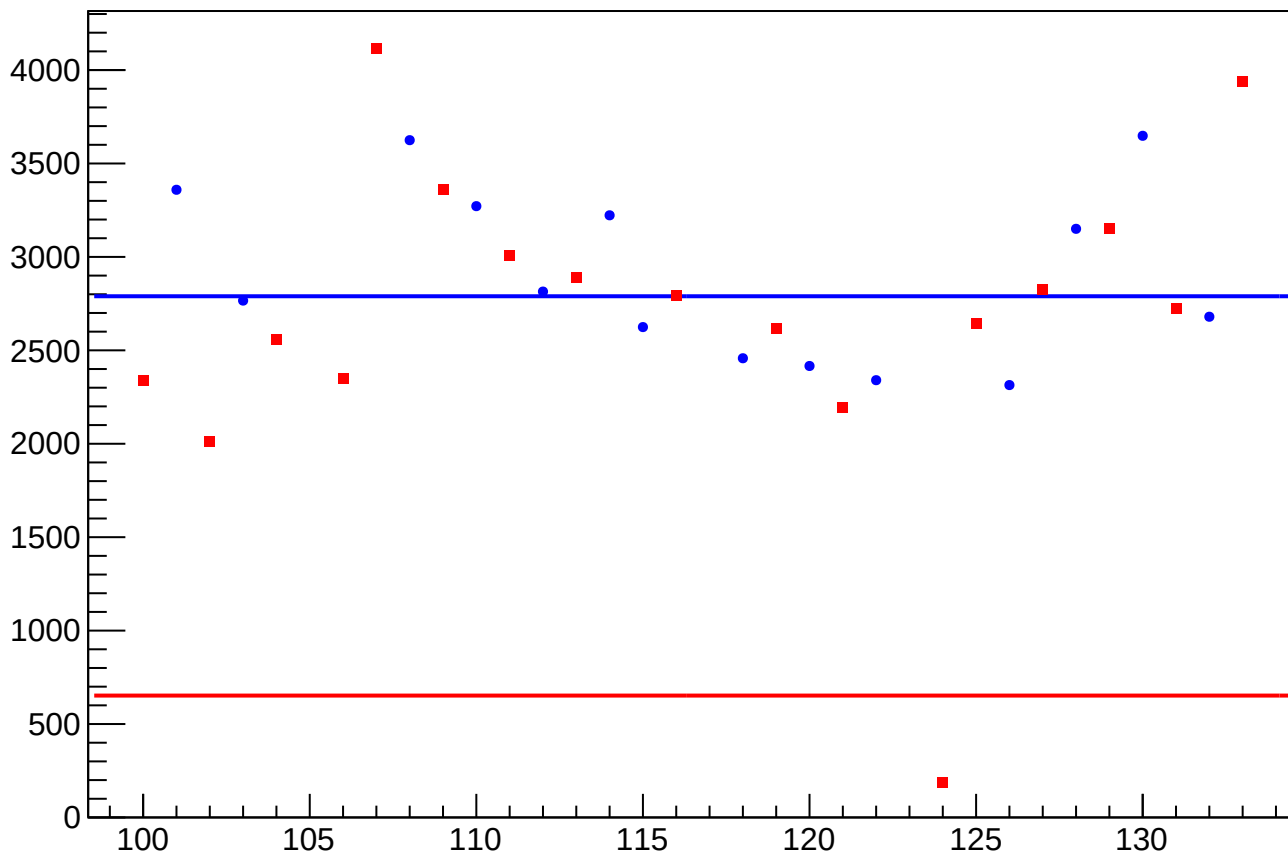
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -246.158 $\pm$ 428.577  $\chi^2$ /NDF: 30.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_dd\_cor\_correction\_rms vs Slug



Right In: 2789.445+/-0.819  $\chi^2/\text{NDF}$ : 274624.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 652.293+/-0.326  $\chi^2/\text{NDF}$ : 9142722.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

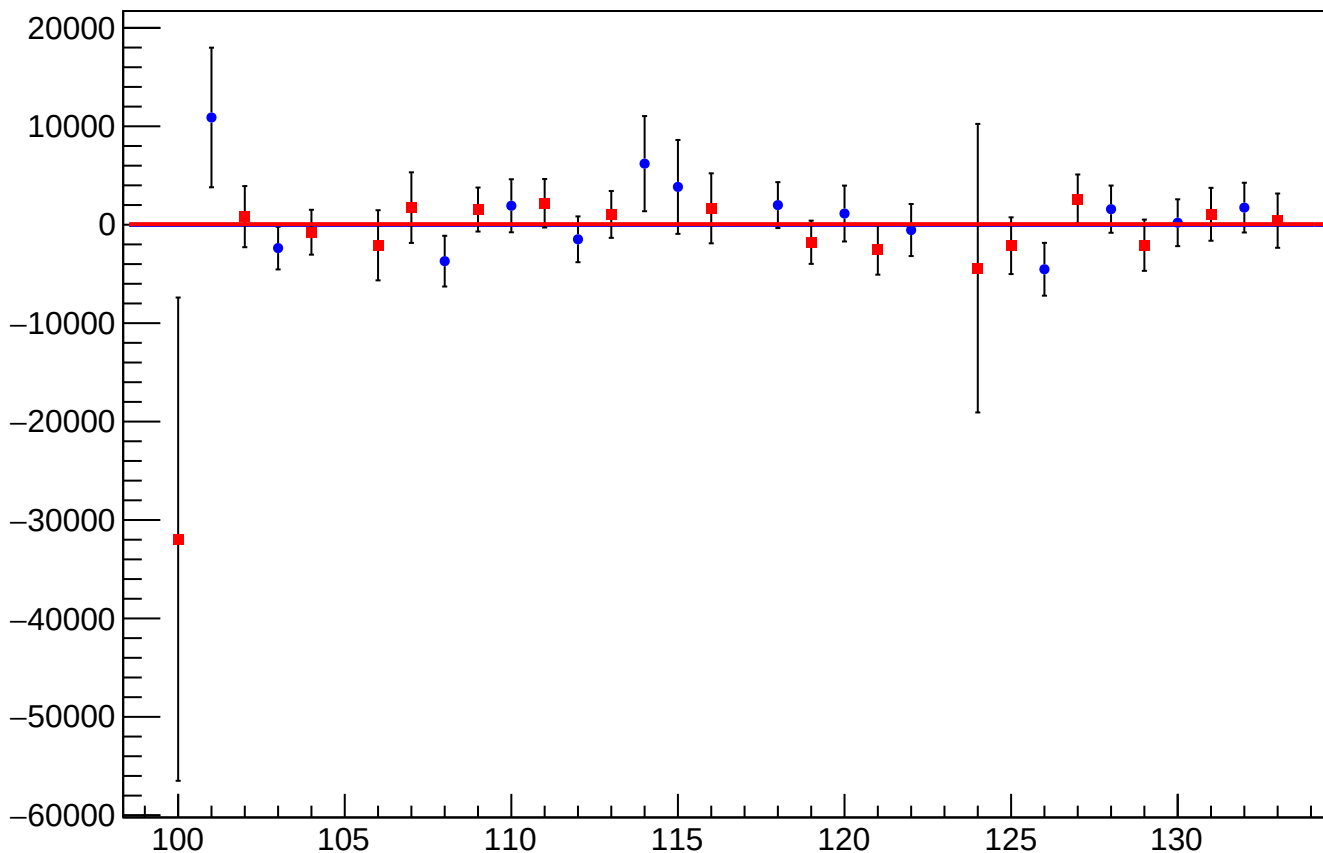
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 944.864+/-0.303  $\chi^2/\text{NDF}$ : 15293610.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_atr1l2\_dd\_mean vs Slug



Right In:  $-18.402 \pm 727.512$   $\chi^2/\text{NDF}$ : 13.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $57.981 \pm 684.022$   $\chi^2/\text{NDF}$ : 8.3/16

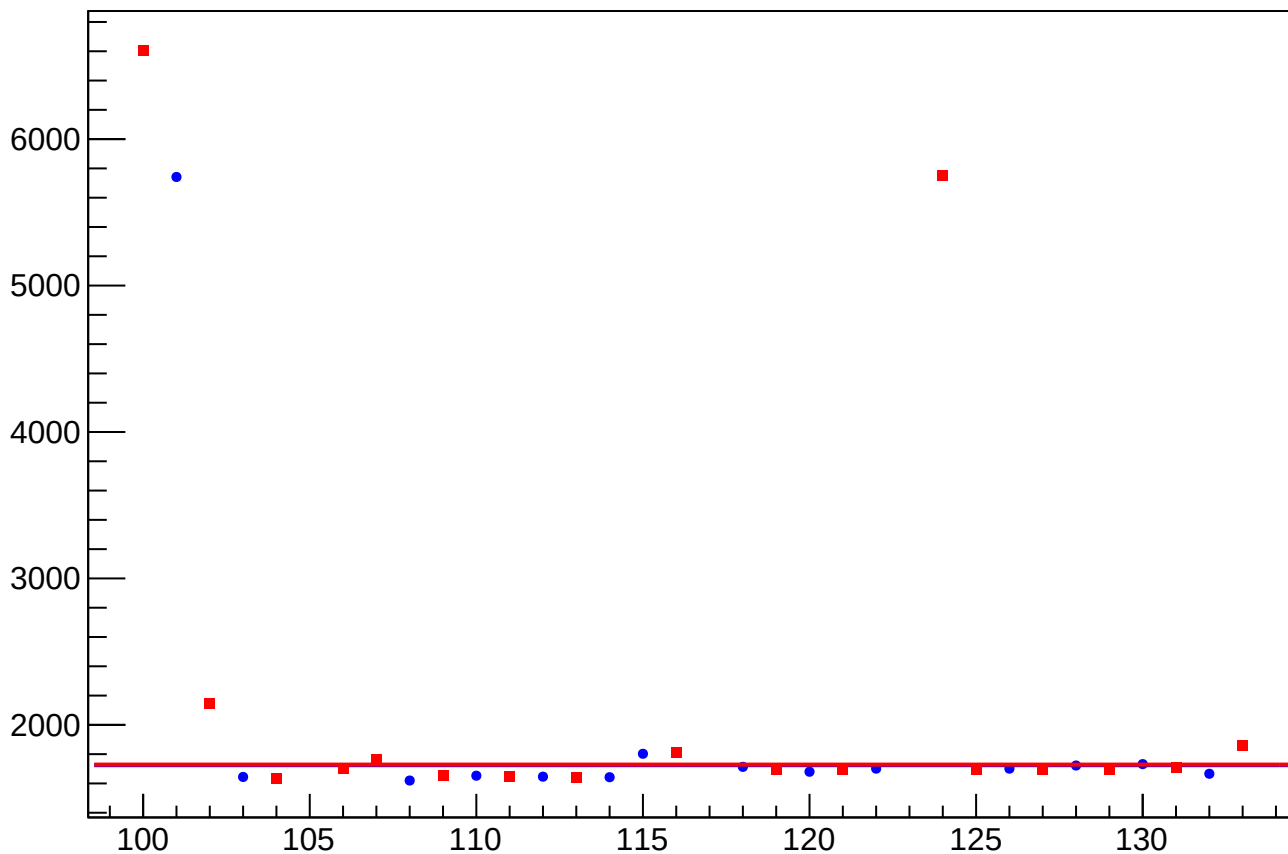
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $22.140 \pm 498.343$   $\chi^2/\text{NDF}$ : 21.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1724.642 $\pm$ 0.514  $\chi^2$ /NDF: 654276.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1728.800 $\pm$ 0.482  $\chi^2$ /NDF: 283667.9/16

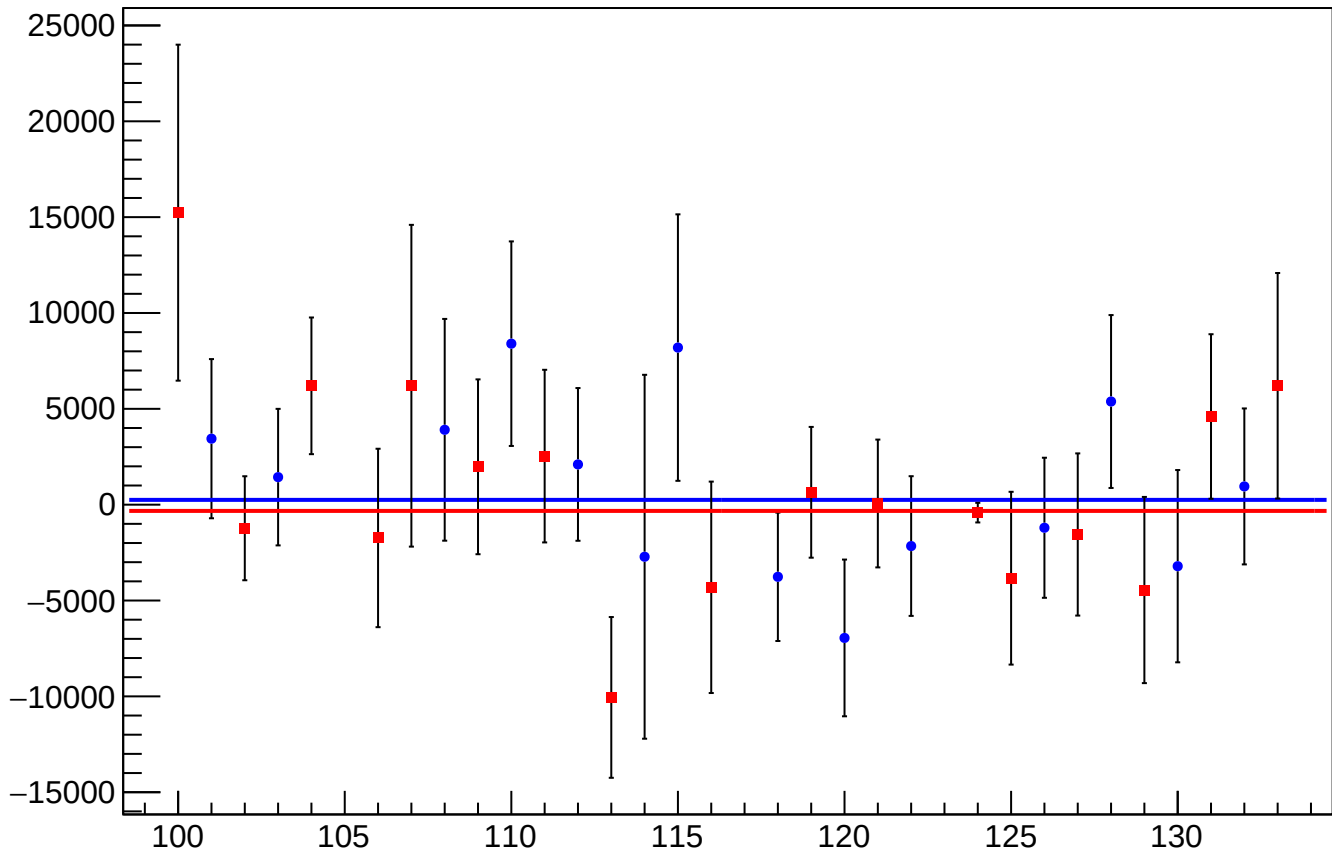
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1726.858 $\pm$ 0.352  $\chi^2$ /NDF: 937979.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 250.750 $\pm$ 1158.326  $\chi^2$ /NDF: 12.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -324.973 $\pm$ 461.315  $\chi^2$ /NDF: 18.0/16

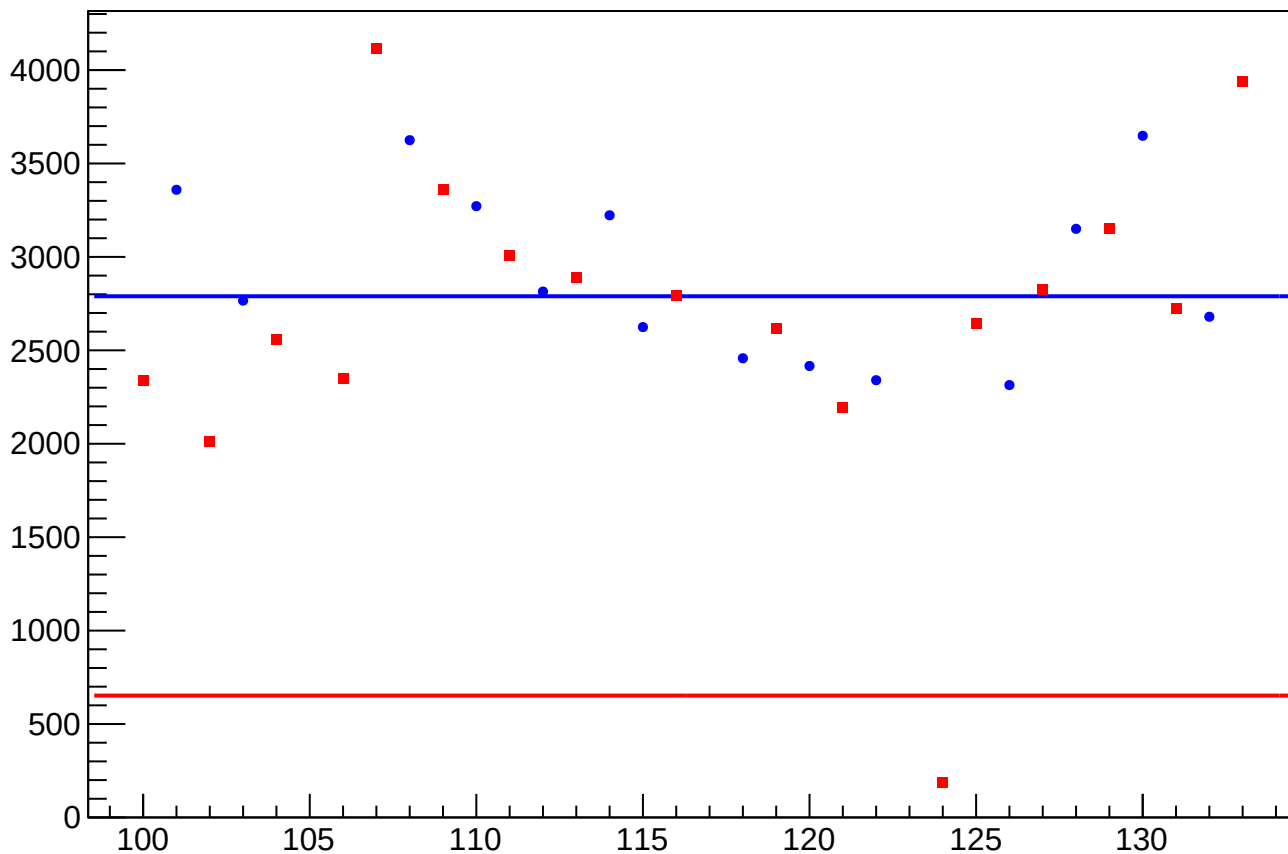
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -246.158 $\pm$ 428.577  $\chi^2$ /NDF: 30.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 2789.445+/-0.819  $\chi^2/\text{NDF}$ : 274624.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 652.293+/-0.326  $\chi^2/\text{NDF}$ : 9142722.1/16

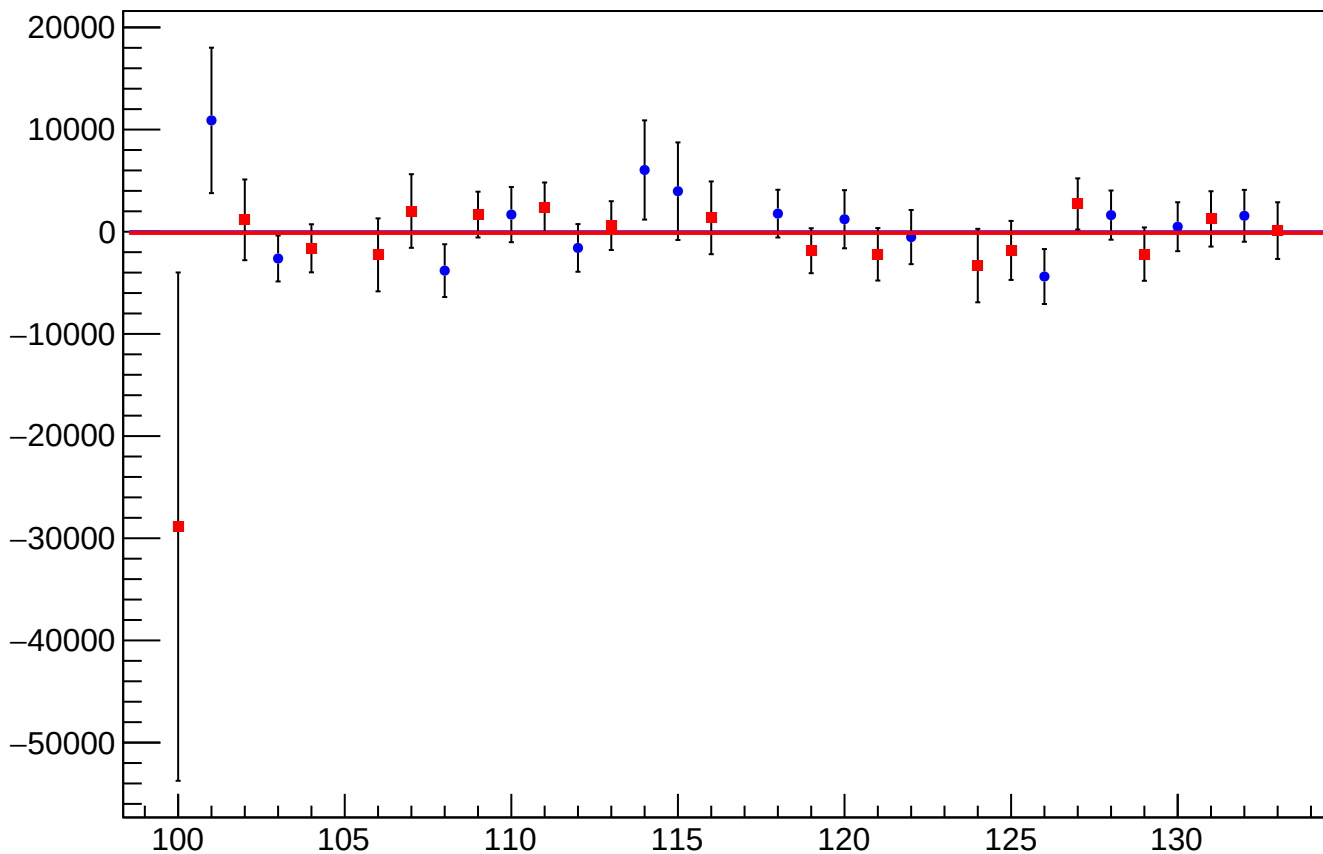
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 944.864+/-0.303  $\chi^2/\text{NDF}$ : 15293610.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -53.138+/-732.337  $\chi^2/\text{NDF}$ : 13.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -115.213+/-682.482  $\chi^2/\text{NDF}$ : 9.1/16

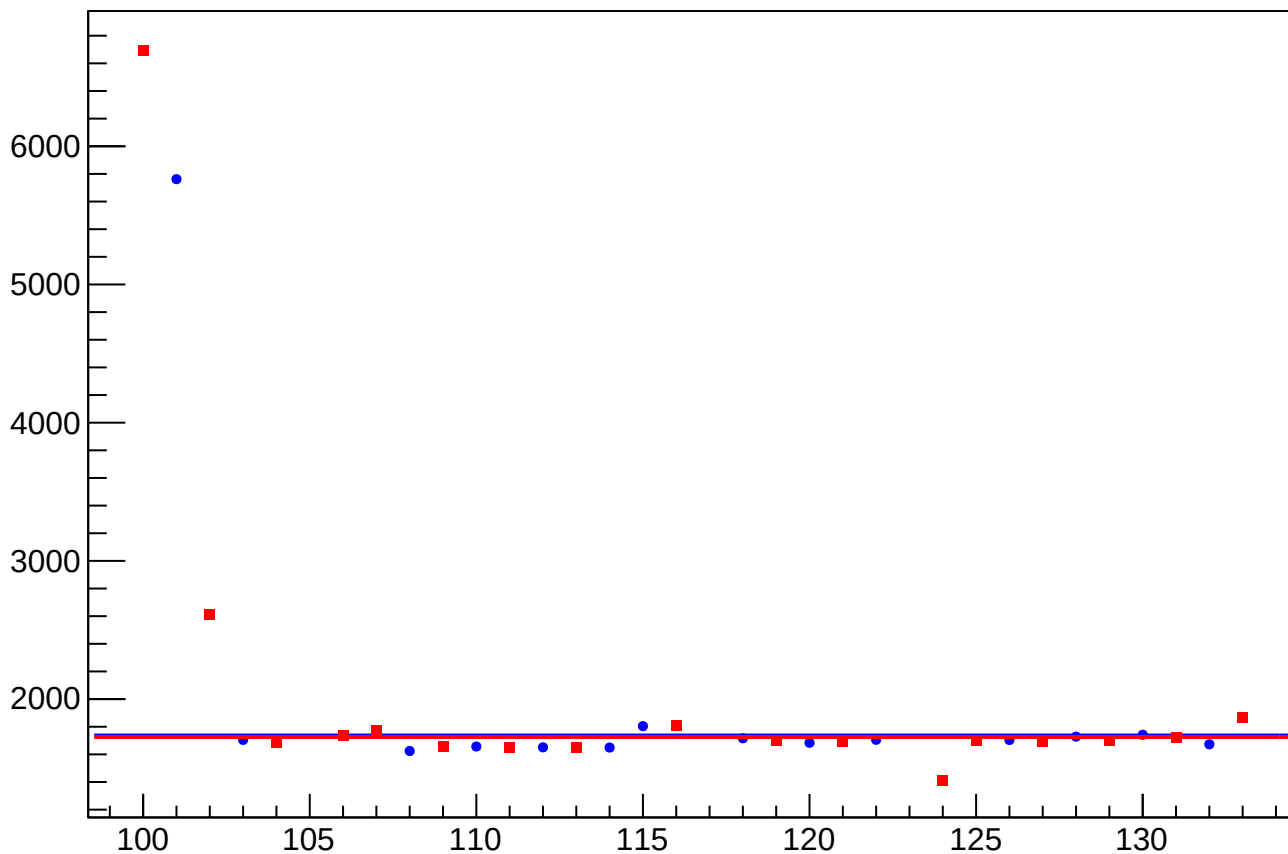
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -86.360+/-499.283  $\chi^2/\text{NDF}$ : 22.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1736.294+/-0.518  $\chi^2/\text{NDF}$ : 651895.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1725.883+/-0.481  $\chi^2/\text{NDF}$ : 210496.2/16

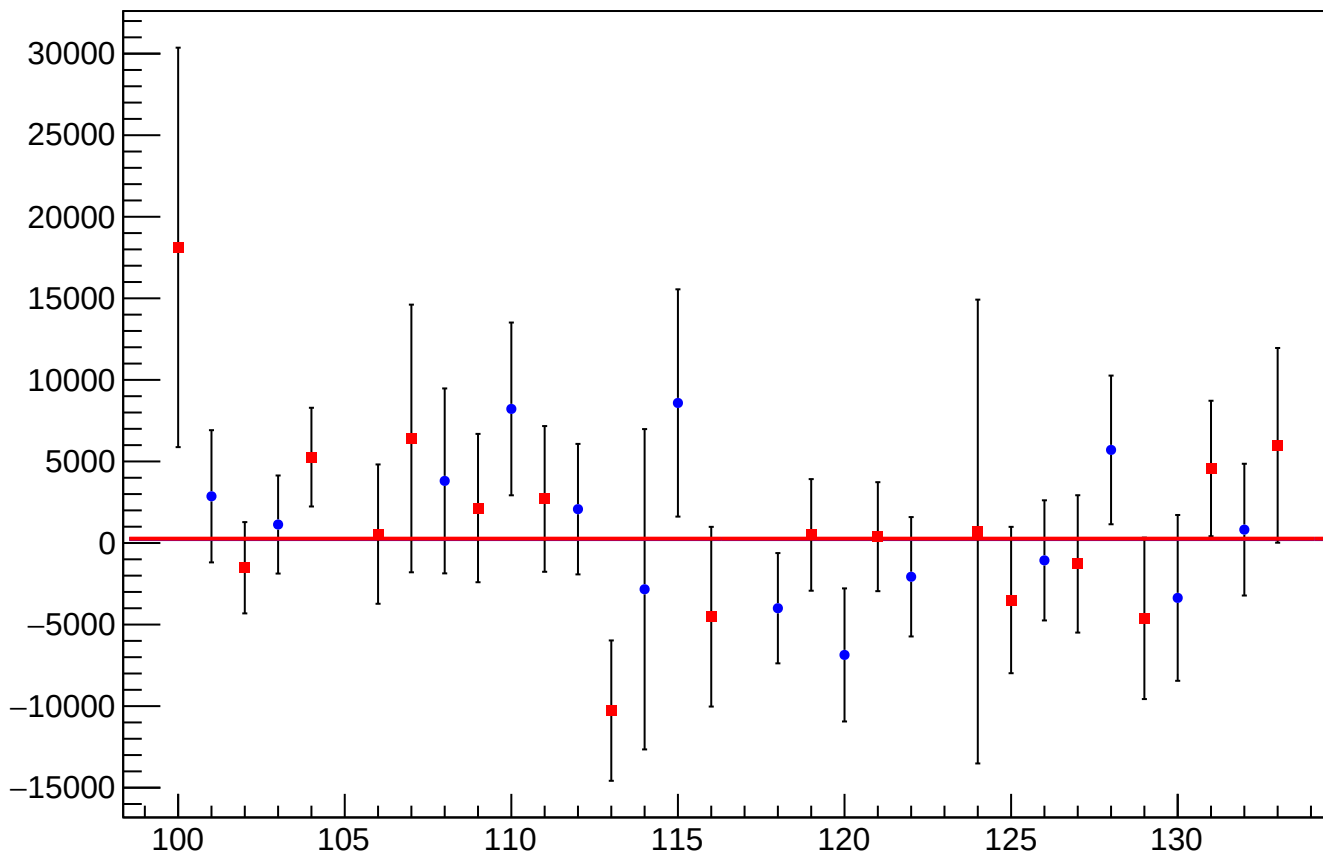
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1730.706+/-0.352  $\chi^2/\text{NDF}$ : 862609.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_dit\_correction\_mean vs Slug



Right In: 242.554 $\pm$ 1135.238  $\chi^2$ /NDF: 12.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 264.785 $\pm$ 1047.283  $\chi^2$ /NDF: 16.9/16

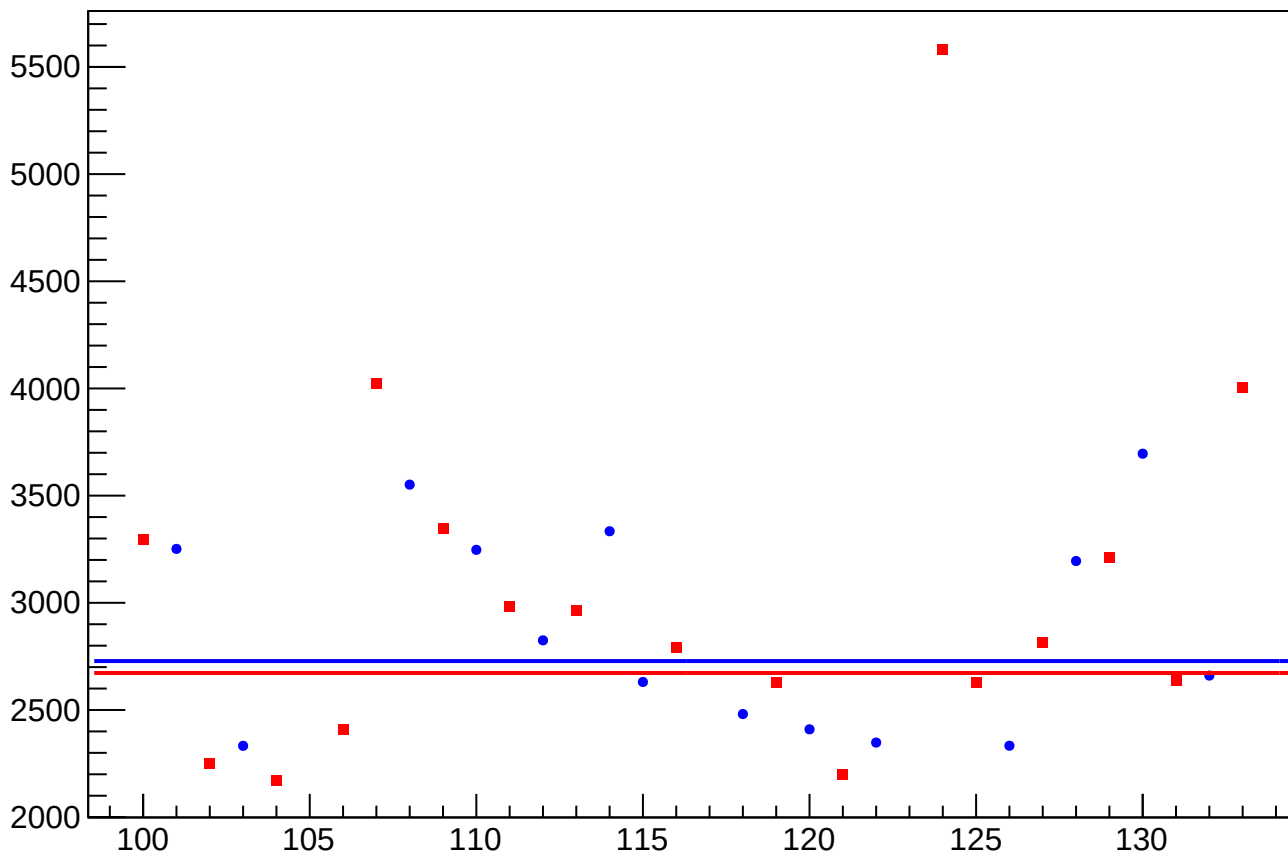
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 254.564 $\pm$ 769.760  $\chi^2$ /NDF: 28.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_dd\_dit\_correction\_rms vs Slug



Right In: 2728.253+/-0.803  $\chi^2/\text{NDF}$ : 299947.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2672.573+/-0.741  $\chi^2/\text{NDF}$ : 481327.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

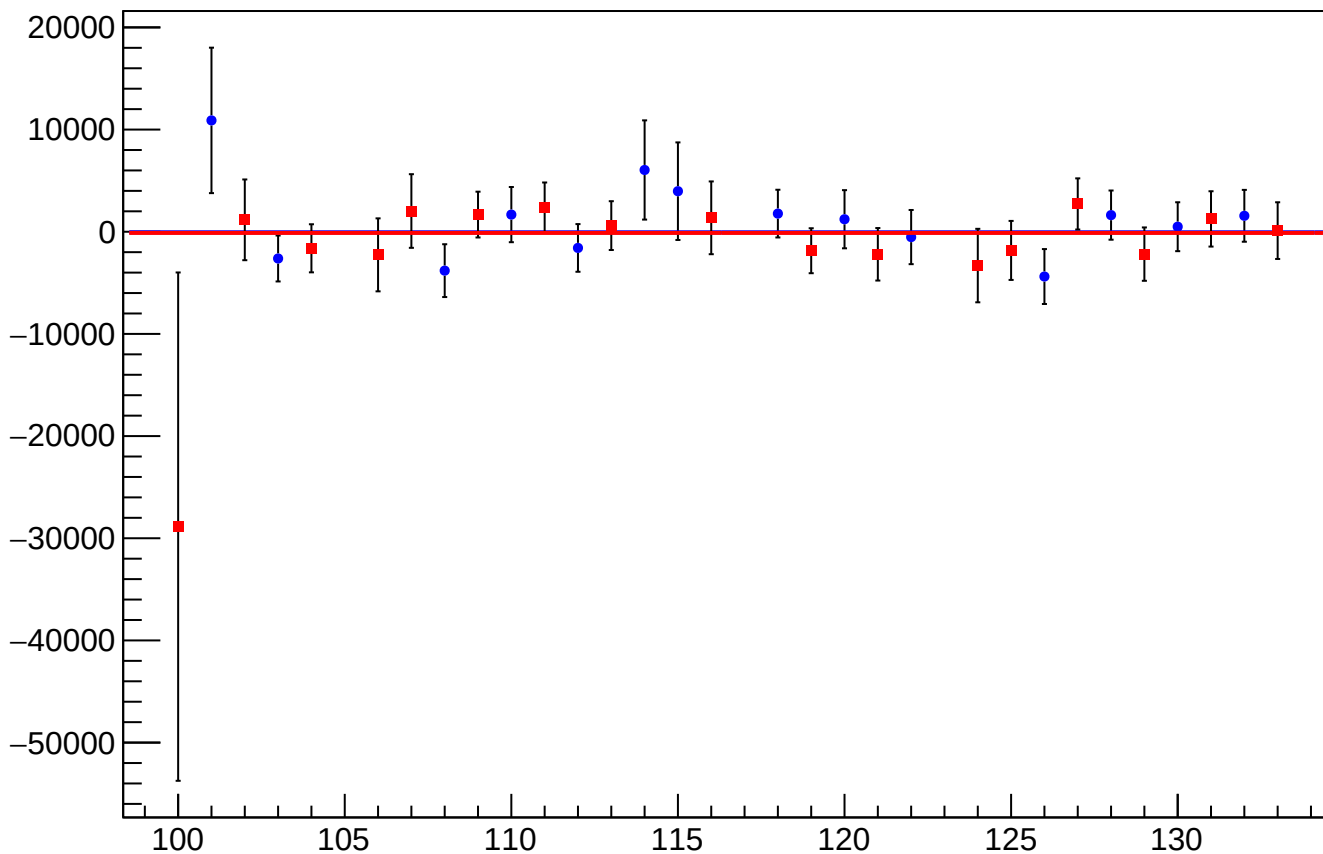
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2698.173+/-0.544  $\chi^2/\text{NDF}$ : 783873.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_atr1l2\_dd\_mean vs Slug



Right In: -53.145+/-732.337  $\chi^2/\text{NDF}$ : 13.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -115.211+/-682.482  $\chi^2/\text{NDF}$ : 9.1/16

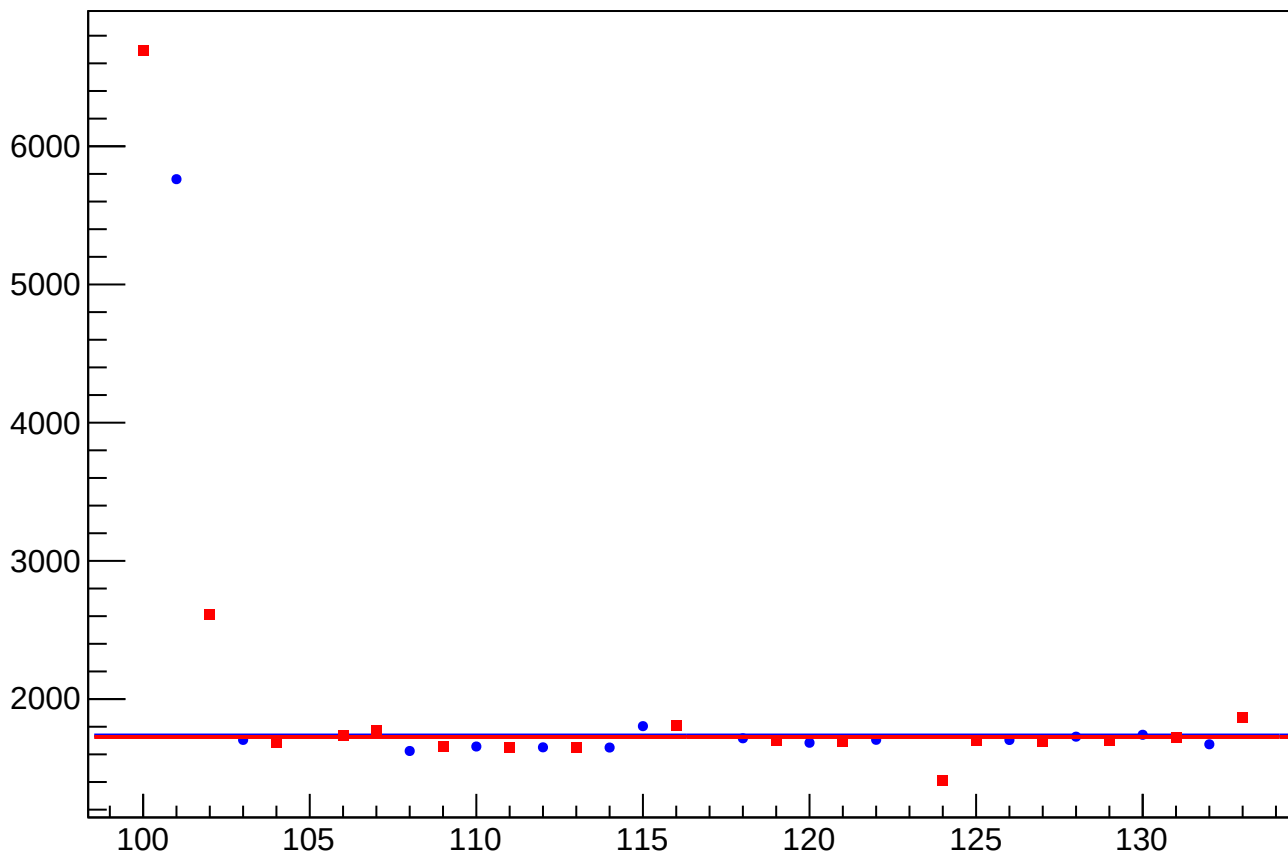
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -86.362+/-499.283  $\chi^2/\text{NDF}$ : 22.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1736.294+/-0.518  $\chi^2/\text{NDF}$ : 651895.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1725.883+/-0.481  $\chi^2/\text{NDF}$ : 210496.2/16

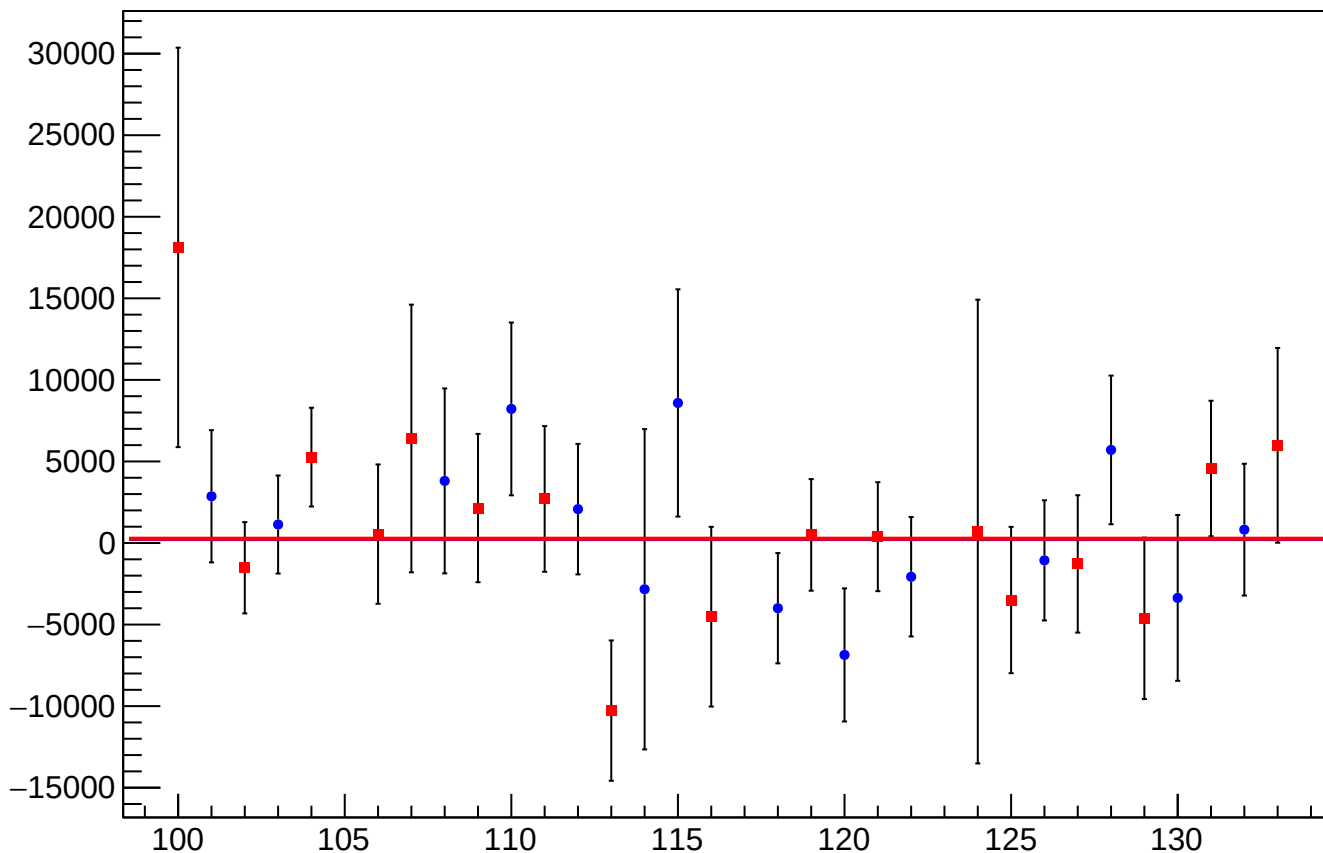
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1730.706+/-0.352  $\chi^2/\text{NDF}$ : 862608.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 242.550+/-1135.235  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 264.786+/-1047.281  $\chi^2/\text{NDF}$ : 16.9/16

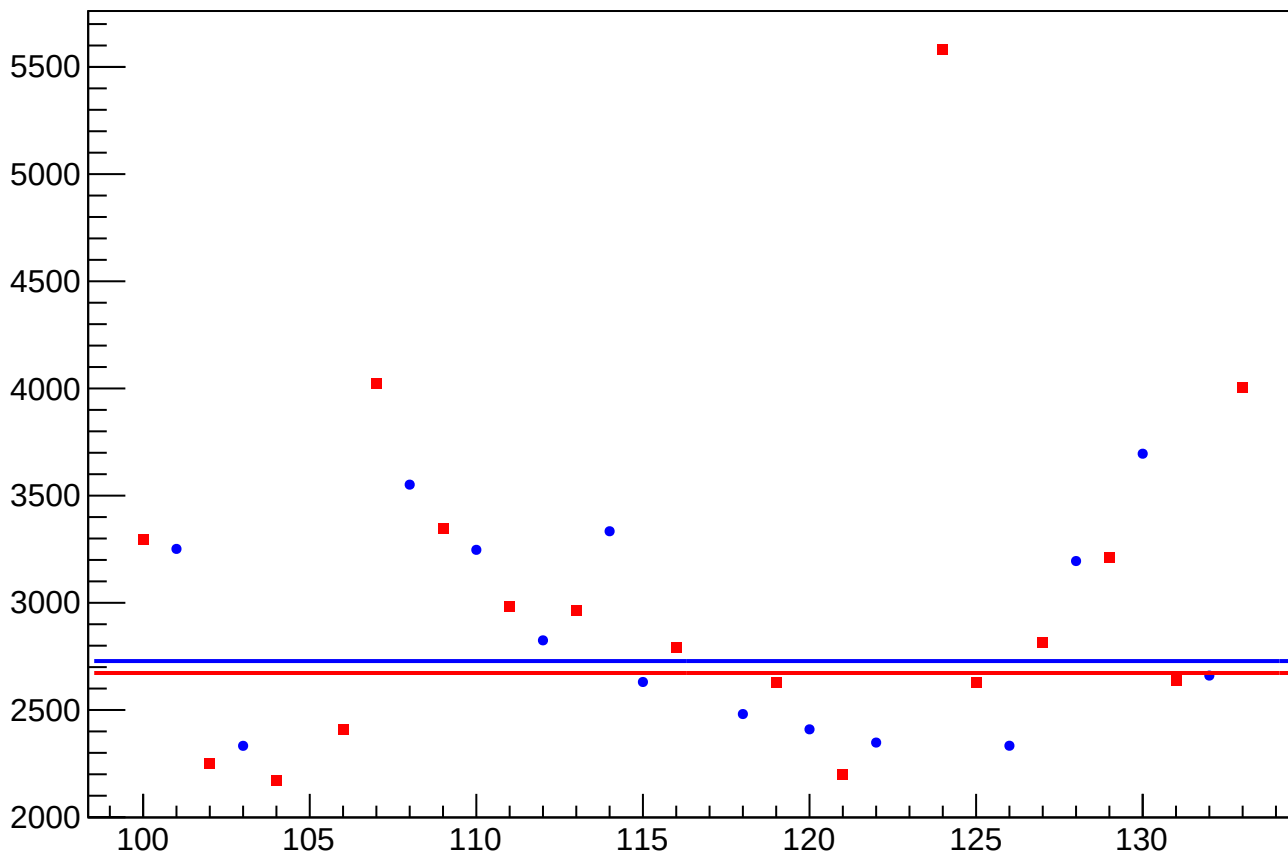
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 254.563+/-769.758  $\chi^2/\text{NDF}$ : 28.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 2728.245 $\pm$ 0.803  $\chi^2$ /NDF: 299947.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2672.567 $\pm$ 0.741  $\chi^2$ /NDF: 481322.1/16

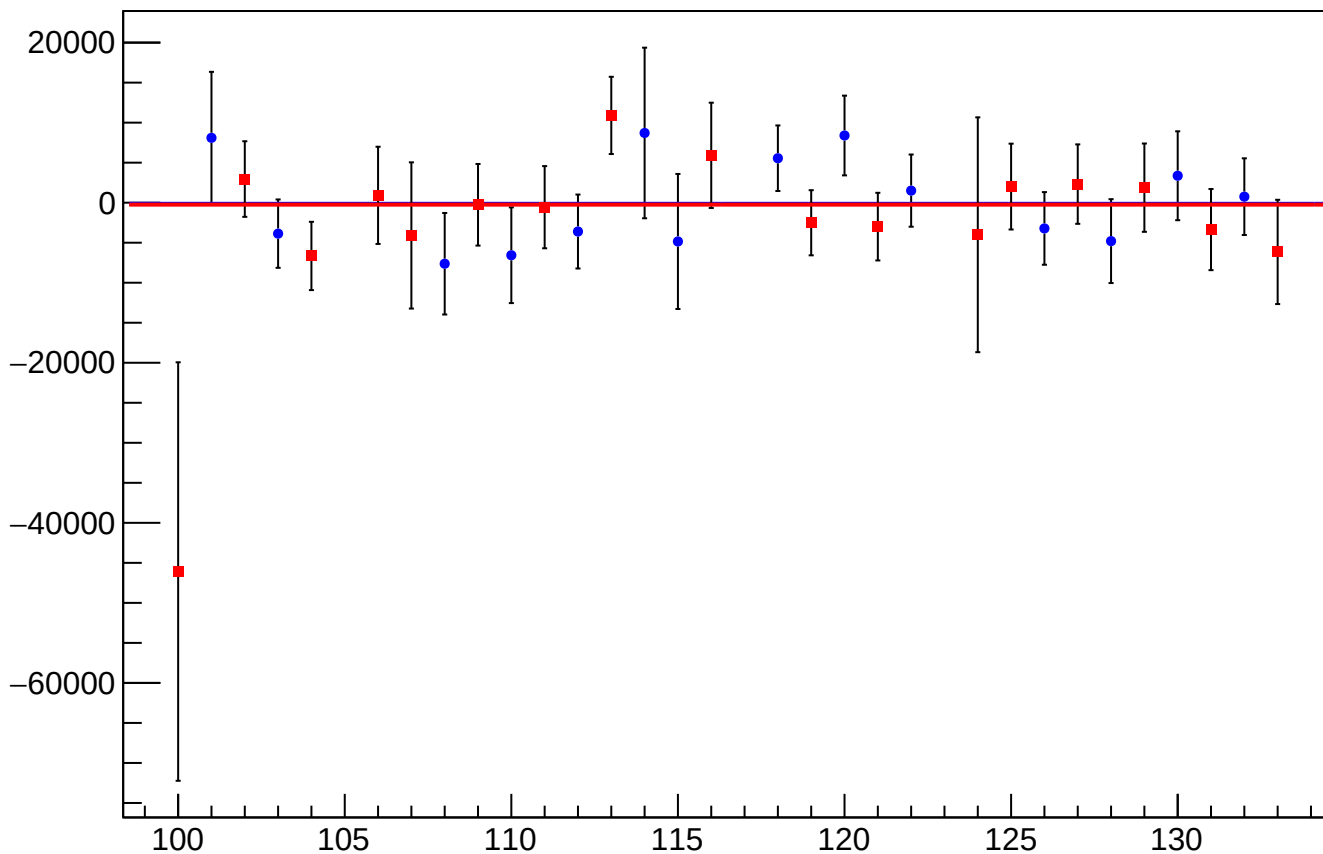
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2698.166 $\pm$ 0.544  $\chi^2$ /NDF: 783868.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_dd\_mean vs Slug



Right In: -143.149+/-1411.217  $\chi^2/\text{NDF}$ : 12.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -241.907+/-1319.208  $\chi^2/\text{NDF}$ : 14.8/16

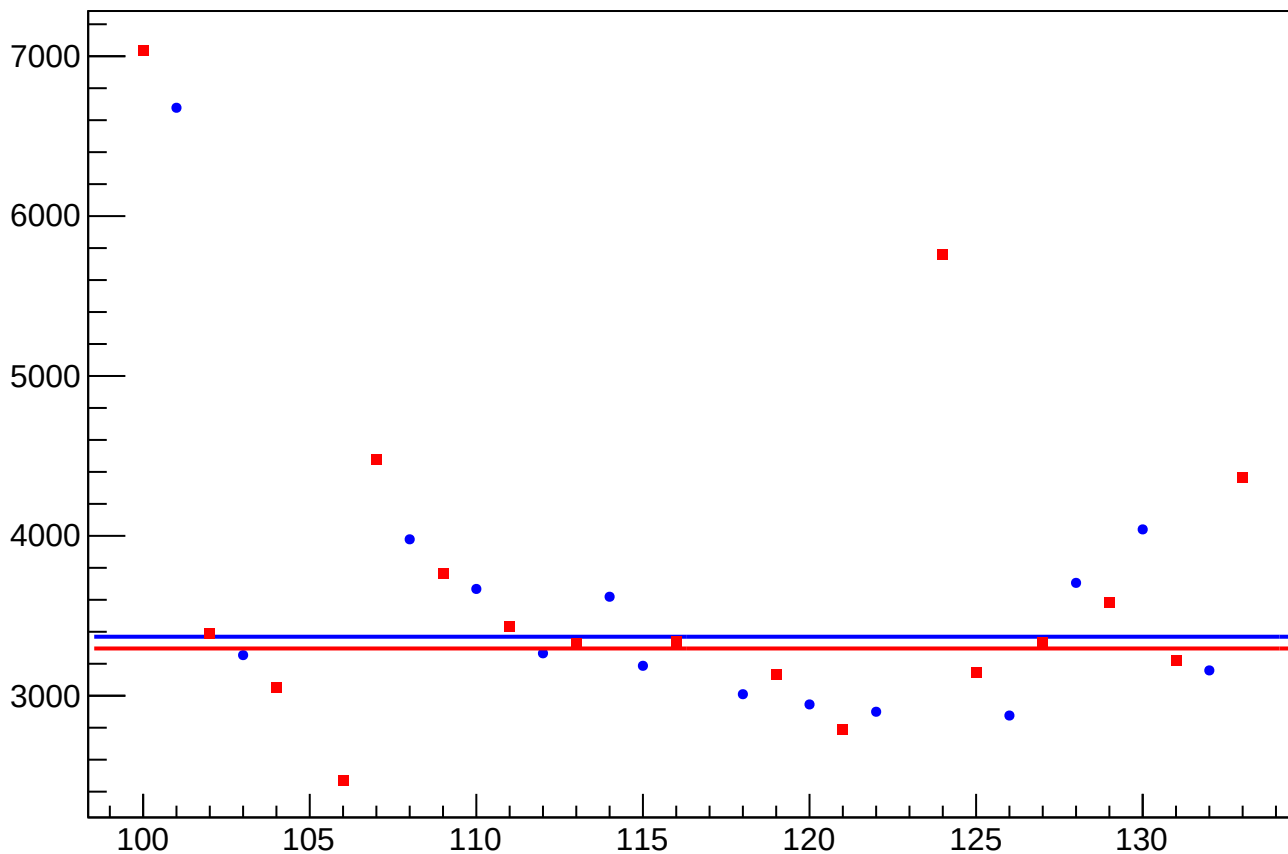
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -195.852+/-963.708  $\chi^2/\text{NDF}$ : 27.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_rms vs Slug



Right In: 3369.081+/-0.998  $\chi^2/\text{NDF}$ : 466480.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3295.543+/-0.919  $\chi^2/\text{NDF}$ : 311191.1/16

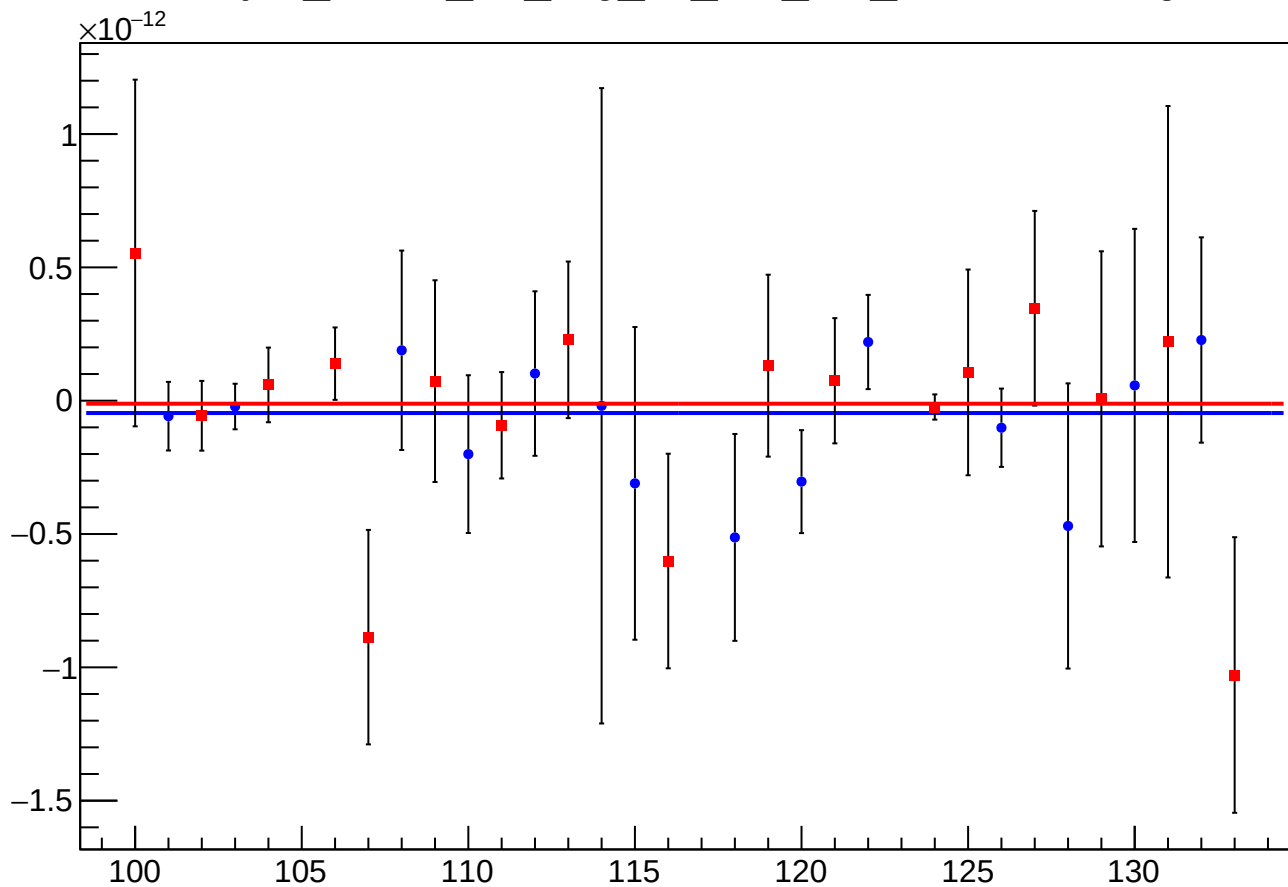
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3329.289+/-0.676  $\chi^2/\text{NDF}$ : 780610.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1l2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.5/16

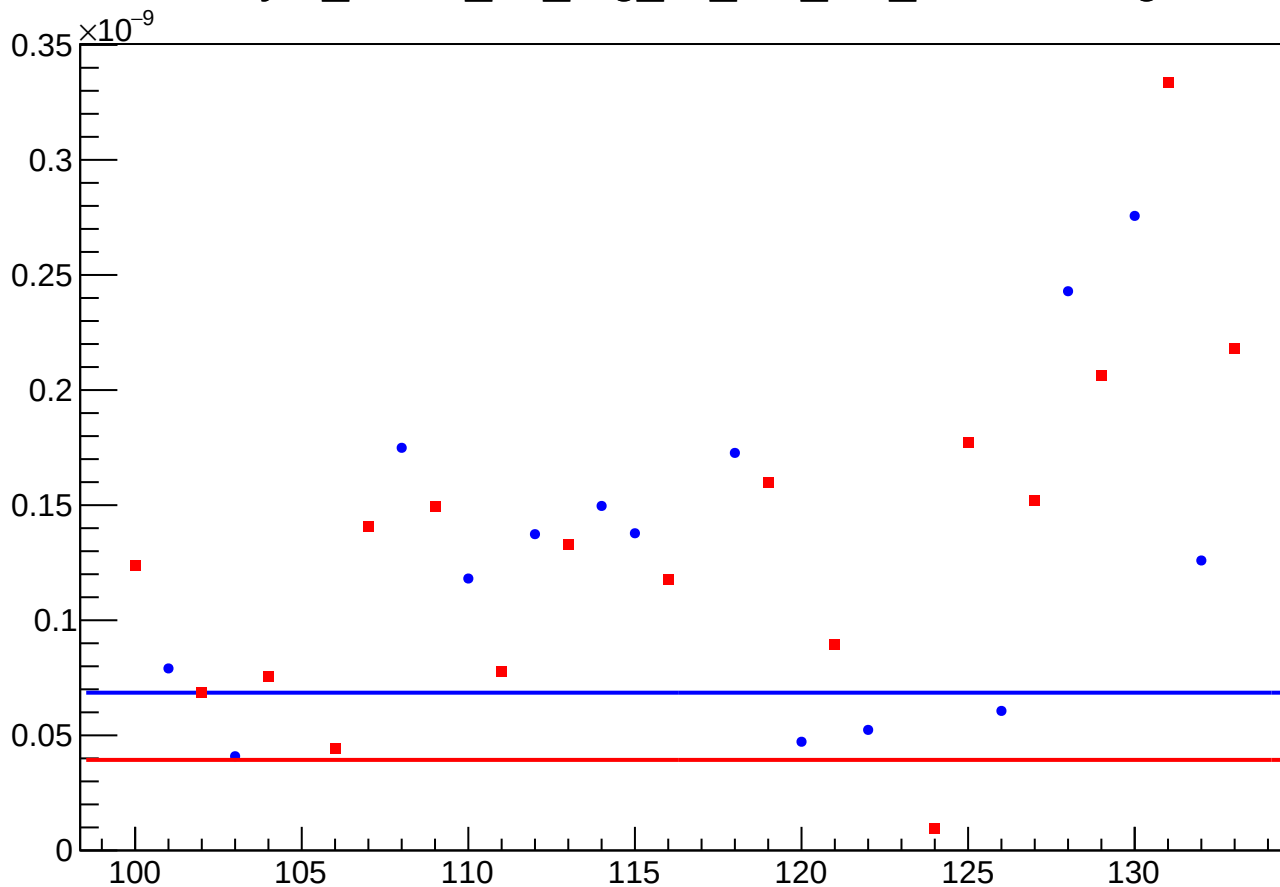
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 23.8/30

- 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  $\chi^2/\text{NDF}$ : 1274334.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3136251.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

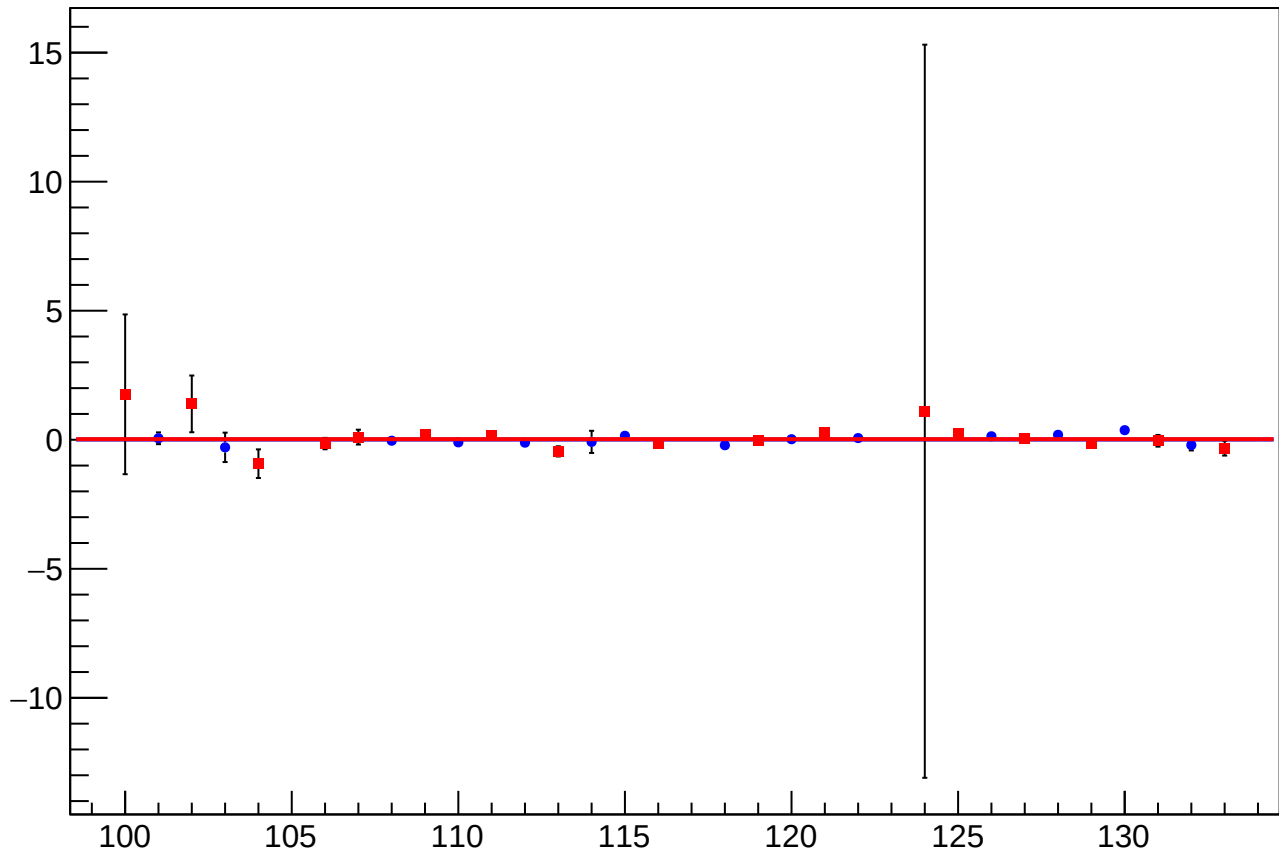
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4815773.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atr1l2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.049  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.022 $\pm$ 0.047  $\chi^2$ /NDF: 21.7/16

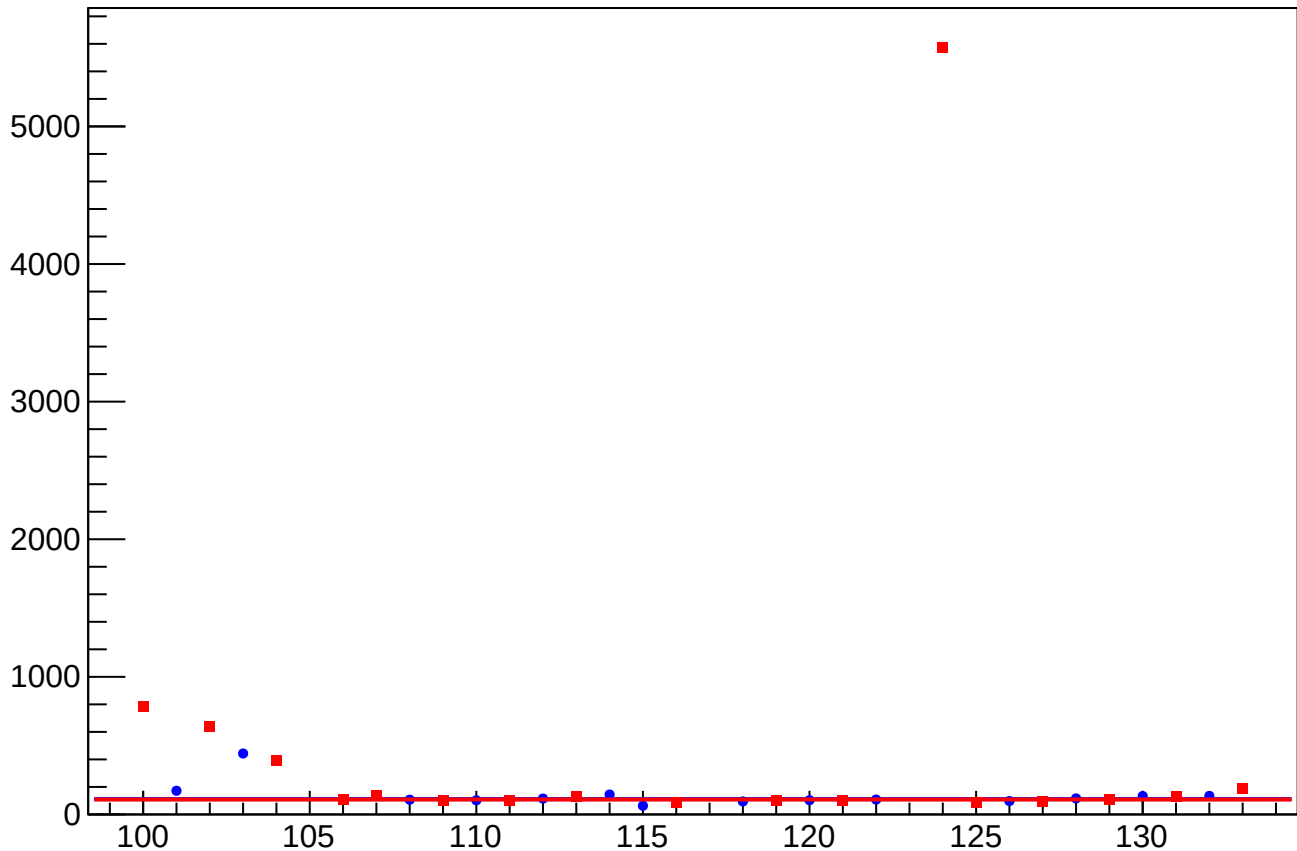
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.034  $\chi^2$ /NDF: 33.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr1l2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 111.234 $\pm$ 0.035  $\chi^2$ /NDF: 1095280.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 108.697 $\pm$ 0.034  $\chi^2$ /NDF: 1742891.0/16

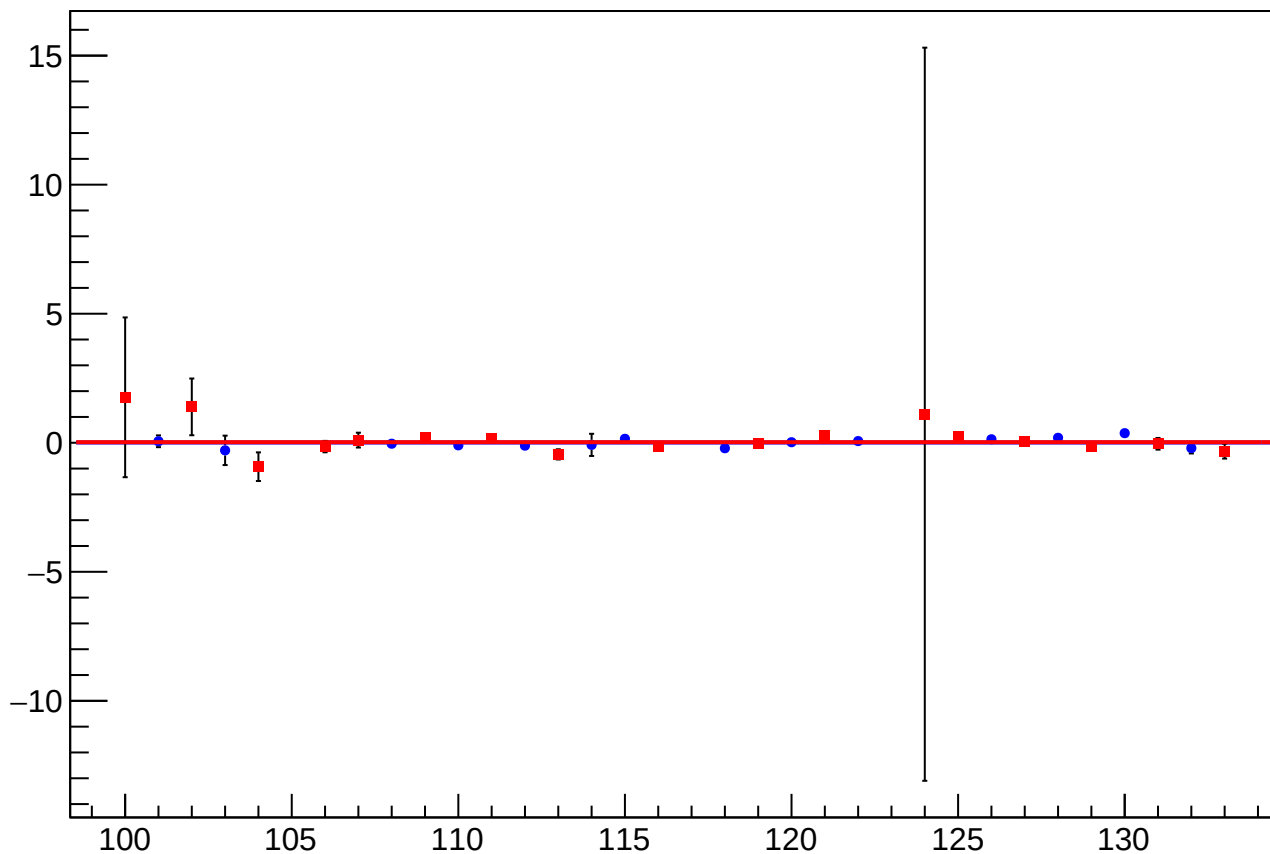
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 109.917 $\pm$ 0.024  $\chi^2$ /NDF: 2840925.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.049  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.022 $\pm$ 0.047  $\chi^2$ /NDF: 21.7/16

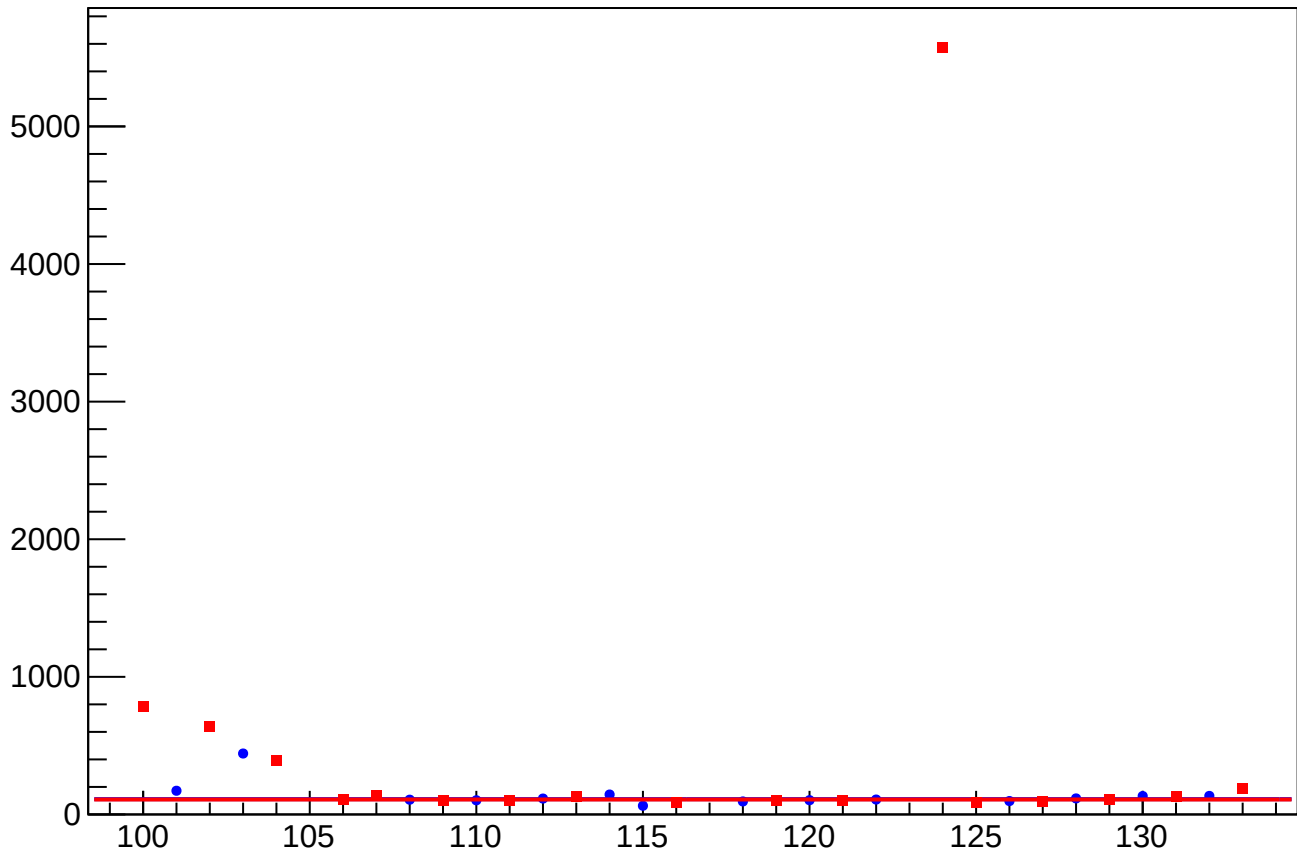
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.034  $\chi^2$ /NDF: 33.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 111.234+/-0.035  $\chi^2/\text{NDF}$ : 1095280.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

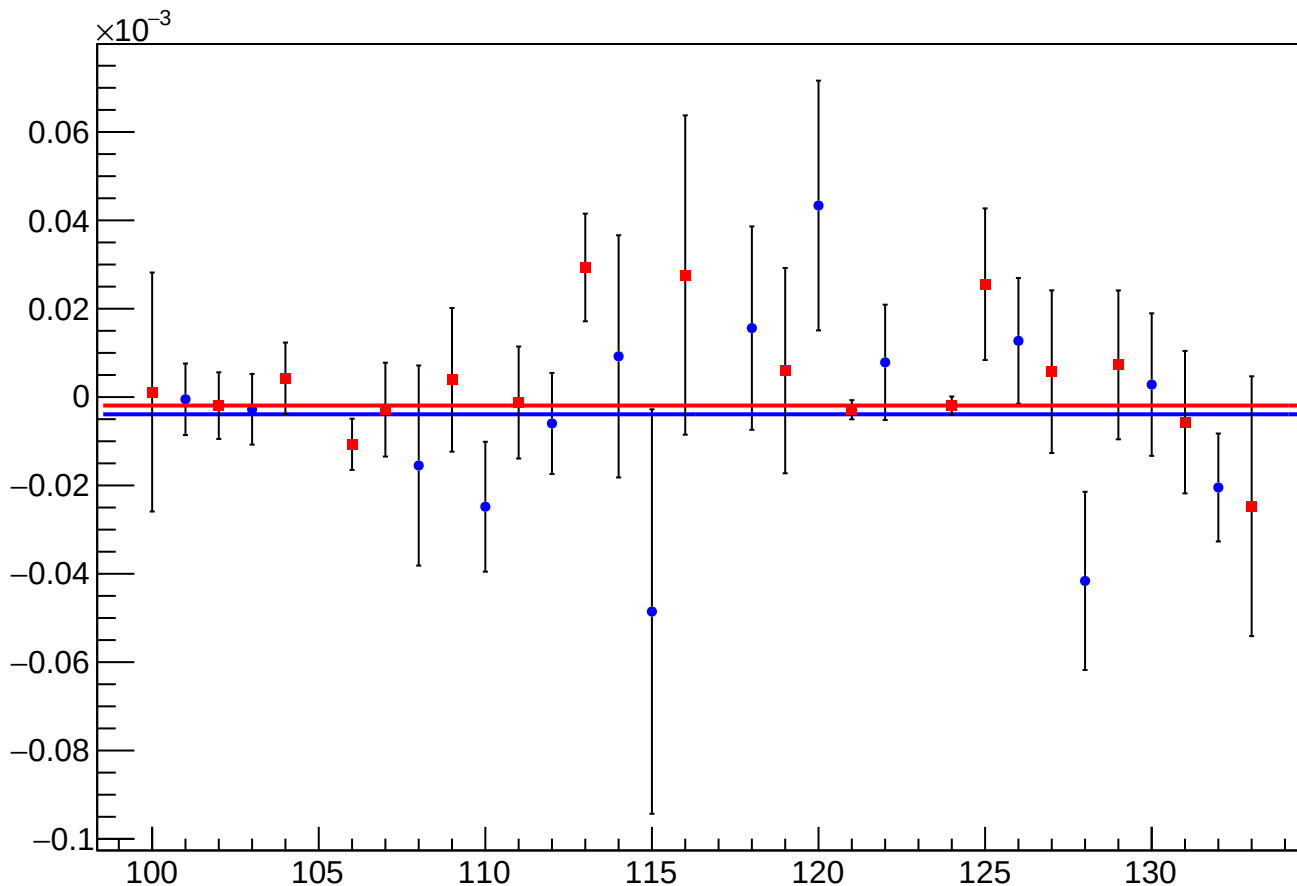
Right Out: 108.697+/-0.034  $\chi^2/\text{NDF}$ : 1742891.0/16

All: 109.917+/-0.024  $\chi^2/\text{NDF}$ : 2840925.9/30

- 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\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 14.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 14.3/16

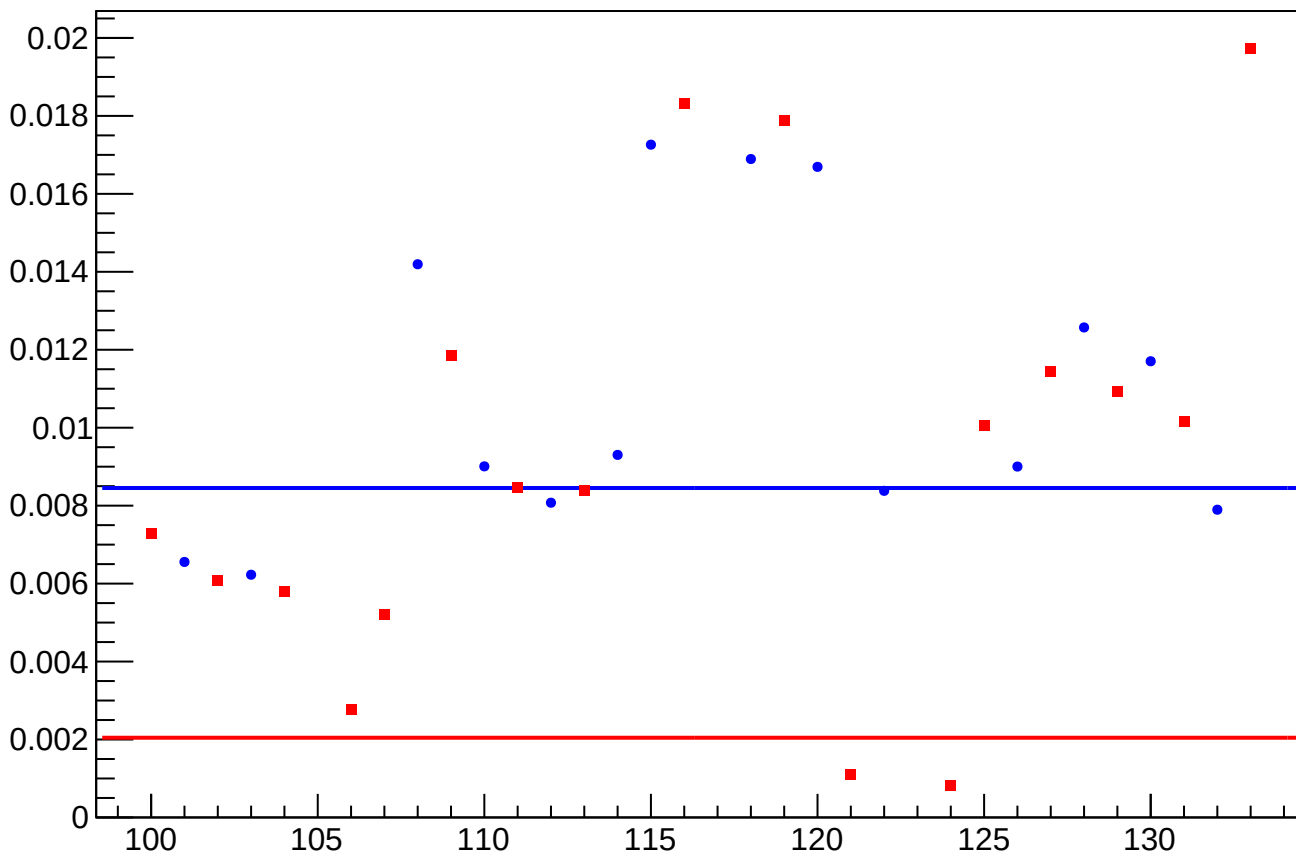
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 29.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 1084584.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 8225929.8/16

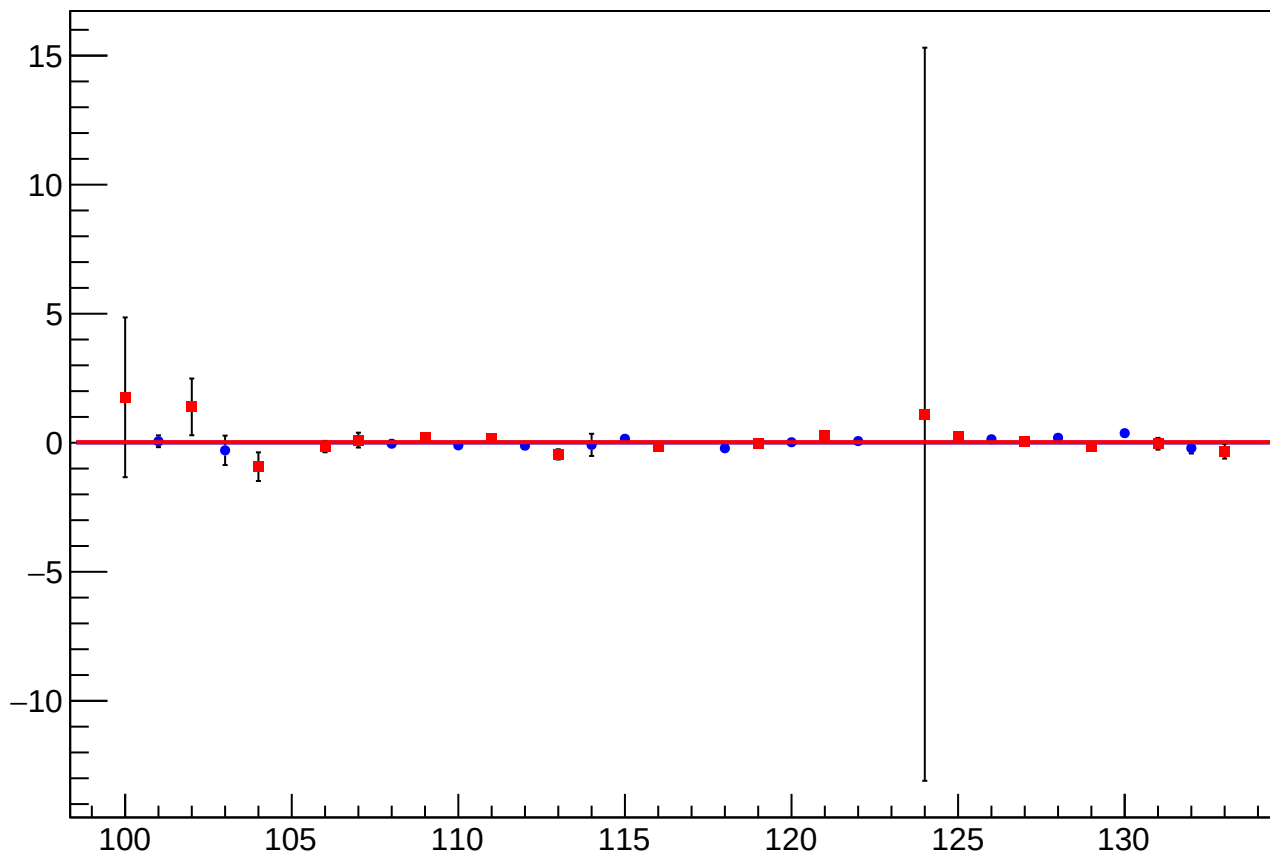
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 14656426.5/30

- 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: 0.009 $\pm$ 0.049  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.022 $\pm$ 0.047  $\chi^2$ /NDF: 21.7/16

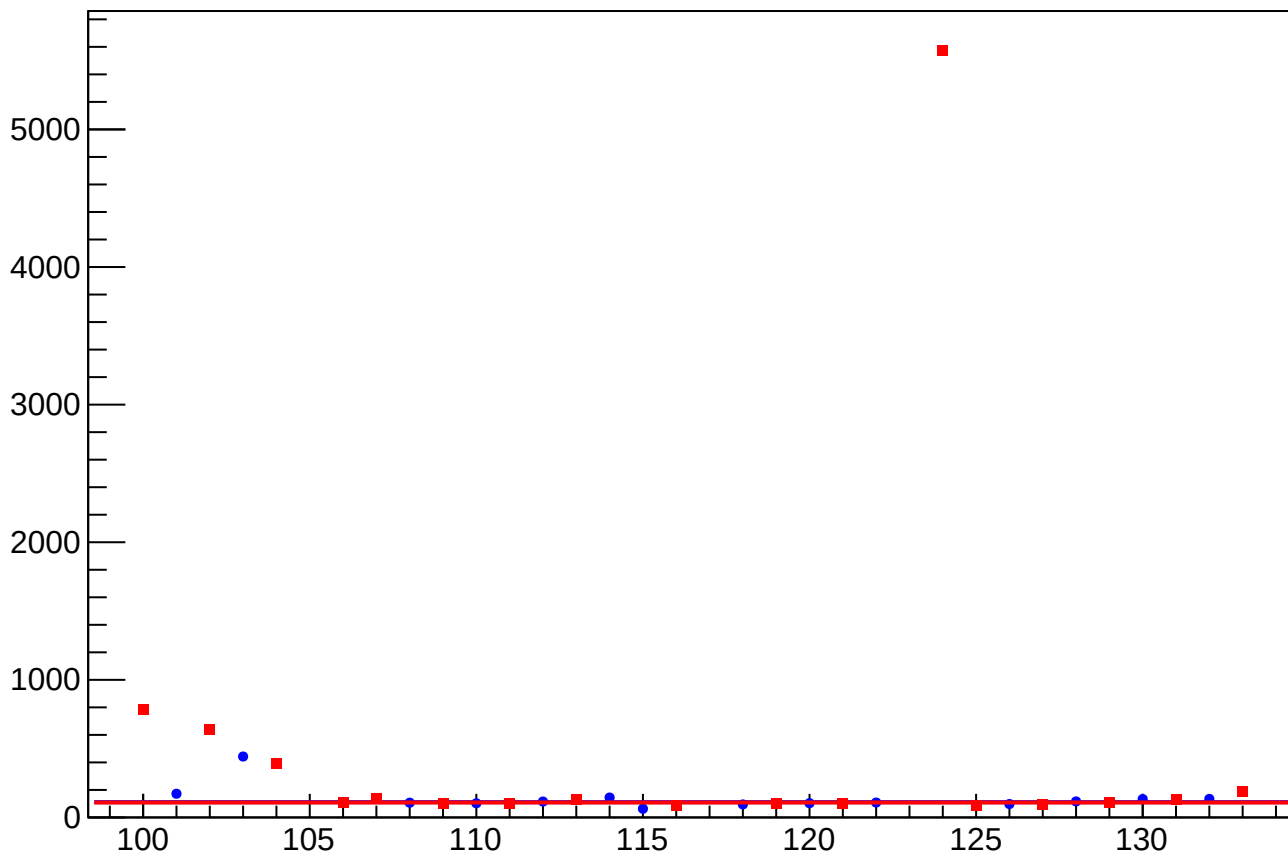
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.034  $\chi^2$ /NDF: 33.2/30

- 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: 111.234+/-0.035  $\chi^2/\text{NDF}$ : 1095235.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 108.698+/-0.034  $\chi^2/\text{NDF}$ : 1742821.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

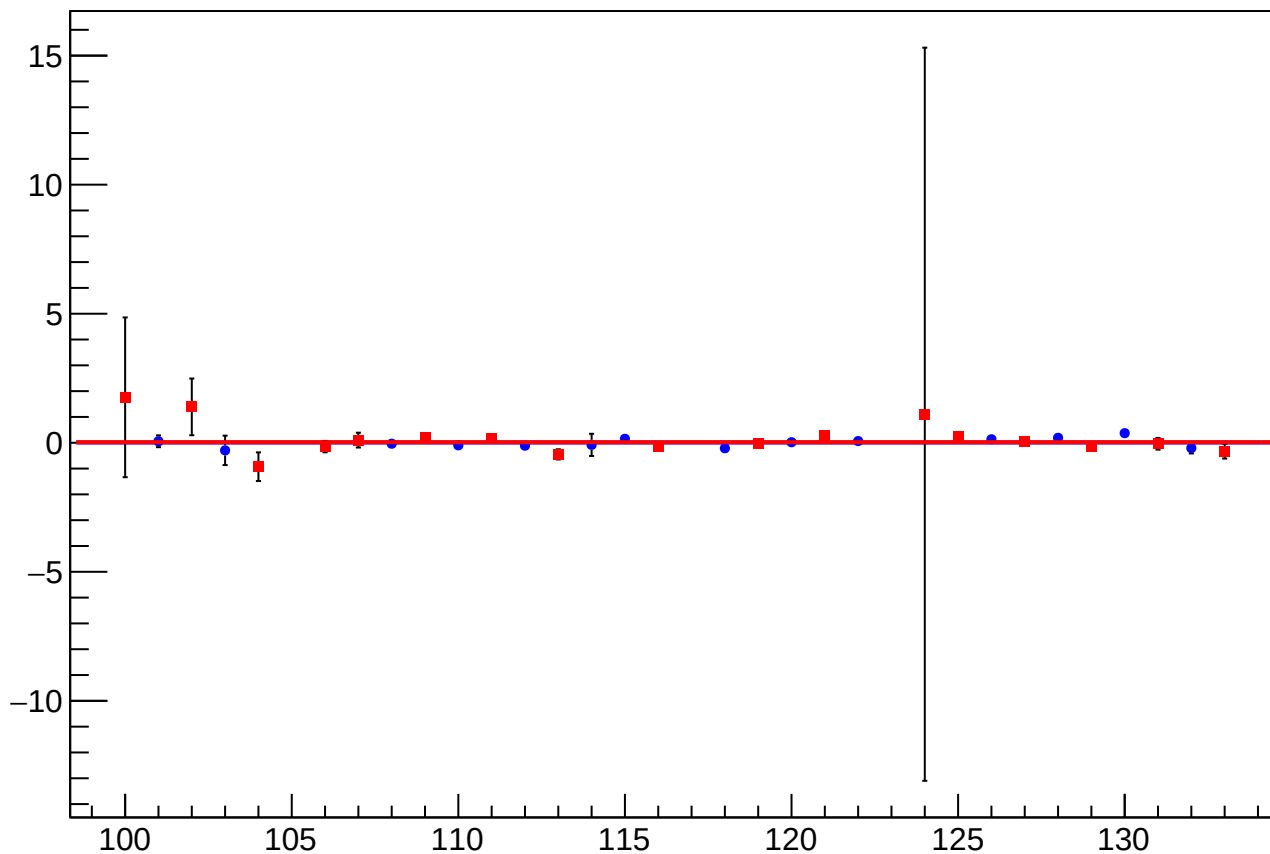
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 109.918+/-0.024  $\chi^2/\text{NDF}$ : 2840808.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atr1l2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.009 $\pm$ 0.049  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.022 $\pm$ 0.047  $\chi^2$ /NDF: 21.7/16

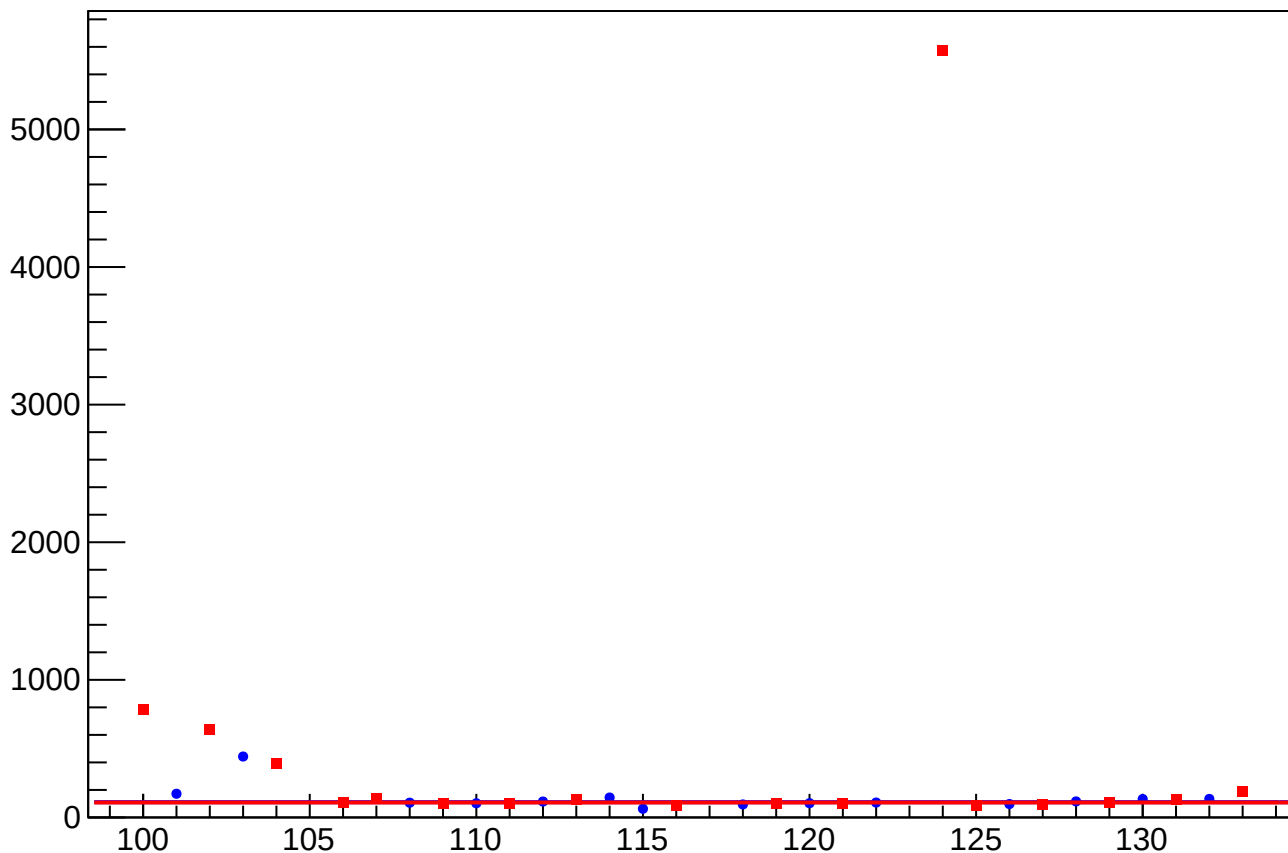
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.034  $\chi^2$ /NDF: 33.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 111.234+/-0.035  $\chi^2/\text{NDF}$ : 1095235.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 108.698+/-0.034  $\chi^2/\text{NDF}$ : 1742821.8/16

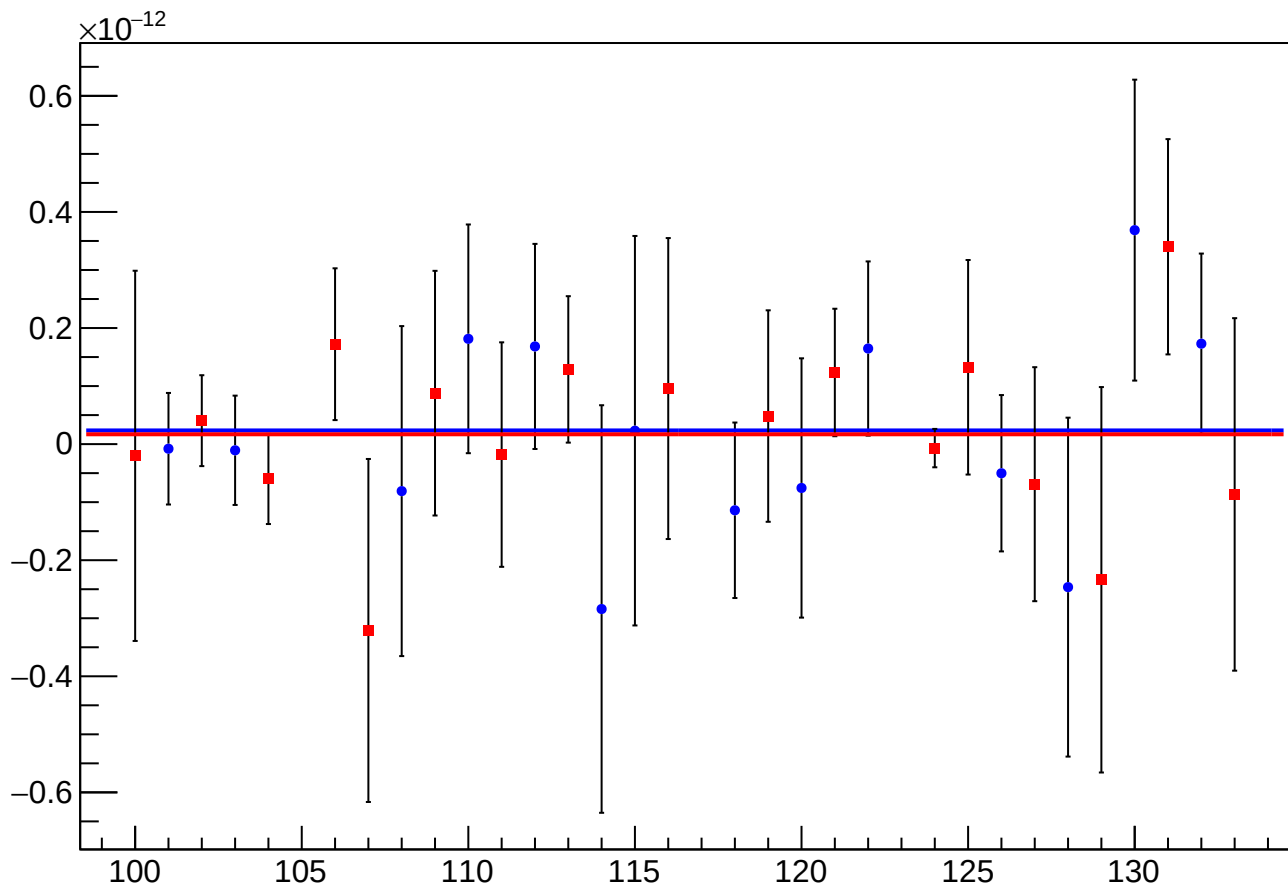
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 109.918+/-0.024  $\chi^2/\text{NDF}$ : 2840808.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atr1l2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.6/16

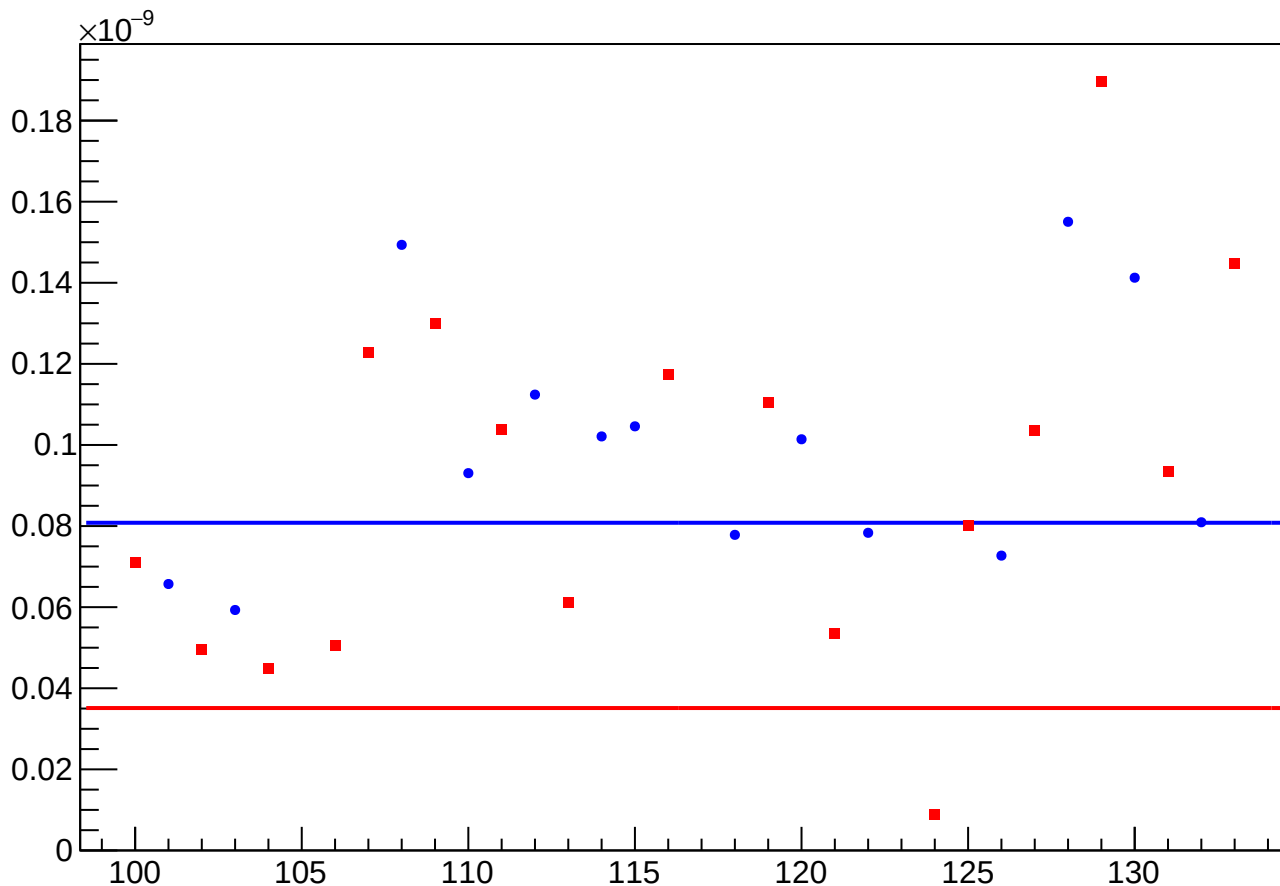
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 18.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atr1l2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 622663.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4183330.1/16

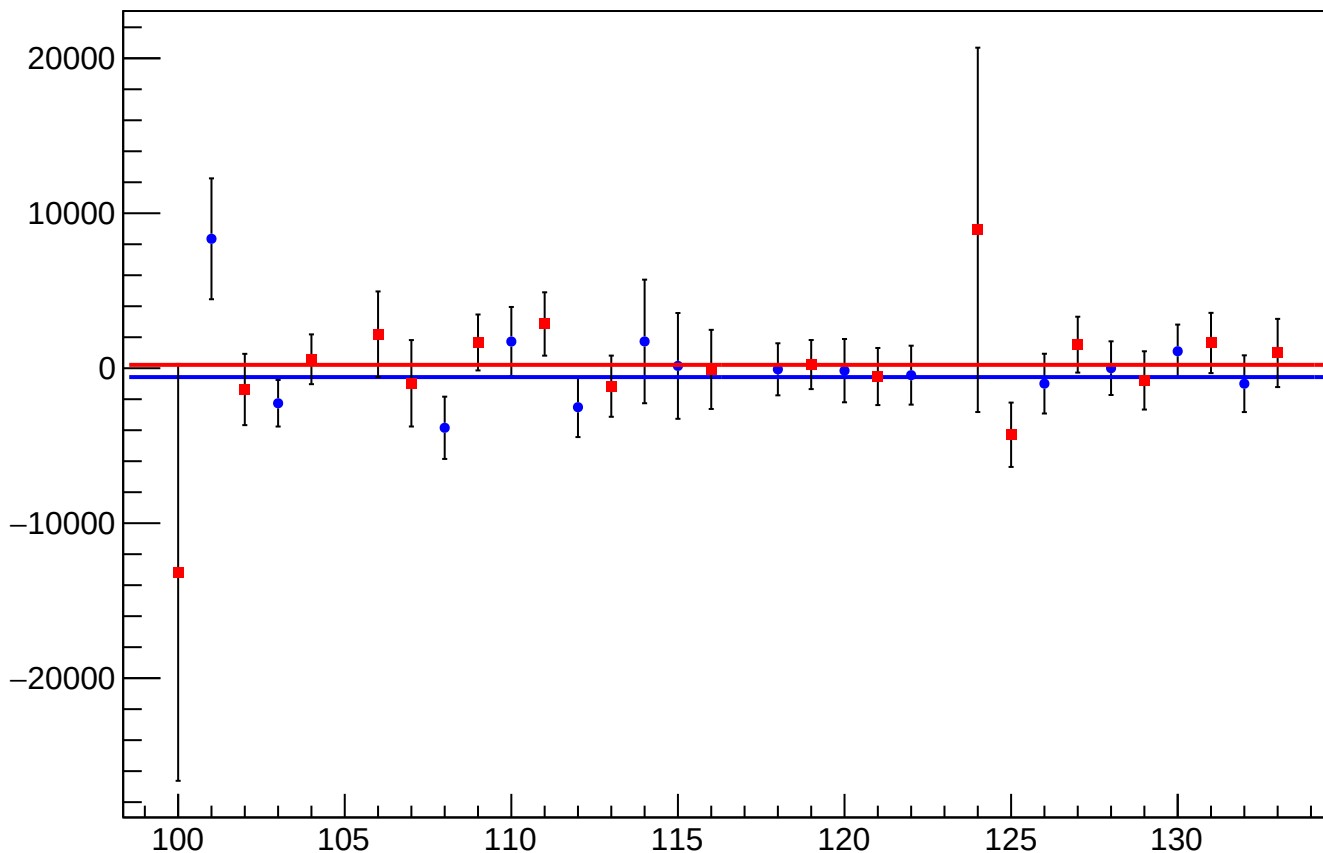
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6508117.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In:  $-571.910 \pm 535.663$   $\chi^2/\text{NDF}$ : 12.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $217.420 \pm 513.494$   $\chi^2/\text{NDF}$ : 11.9/16

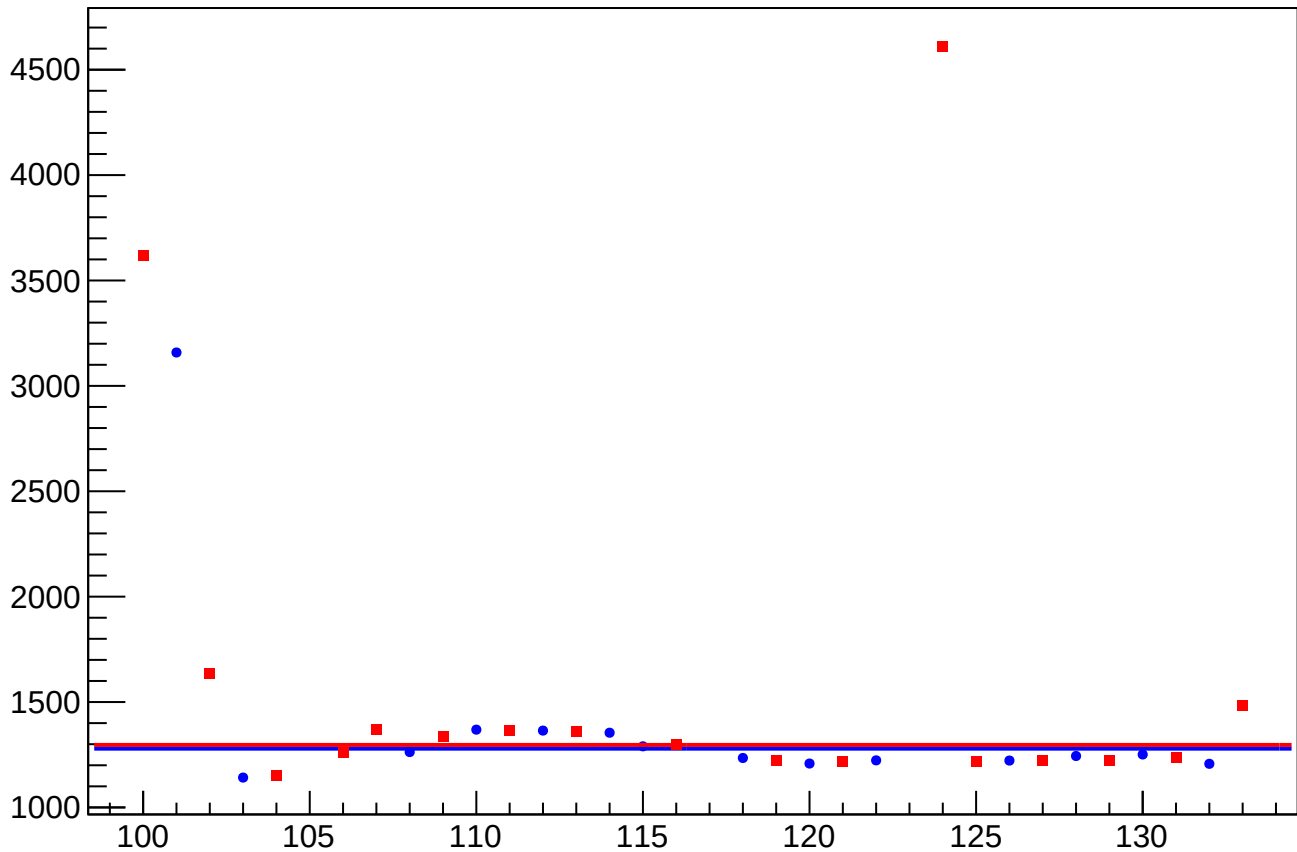
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-160.573 \pm 370.684$   $\chi^2/\text{NDF}$ : 25.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1278.879+/-0.379  $\chi^2/\text{NDF}$ : 500878.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1296.555+/-0.362  $\chi^2/\text{NDF}$ : 318960.1/16

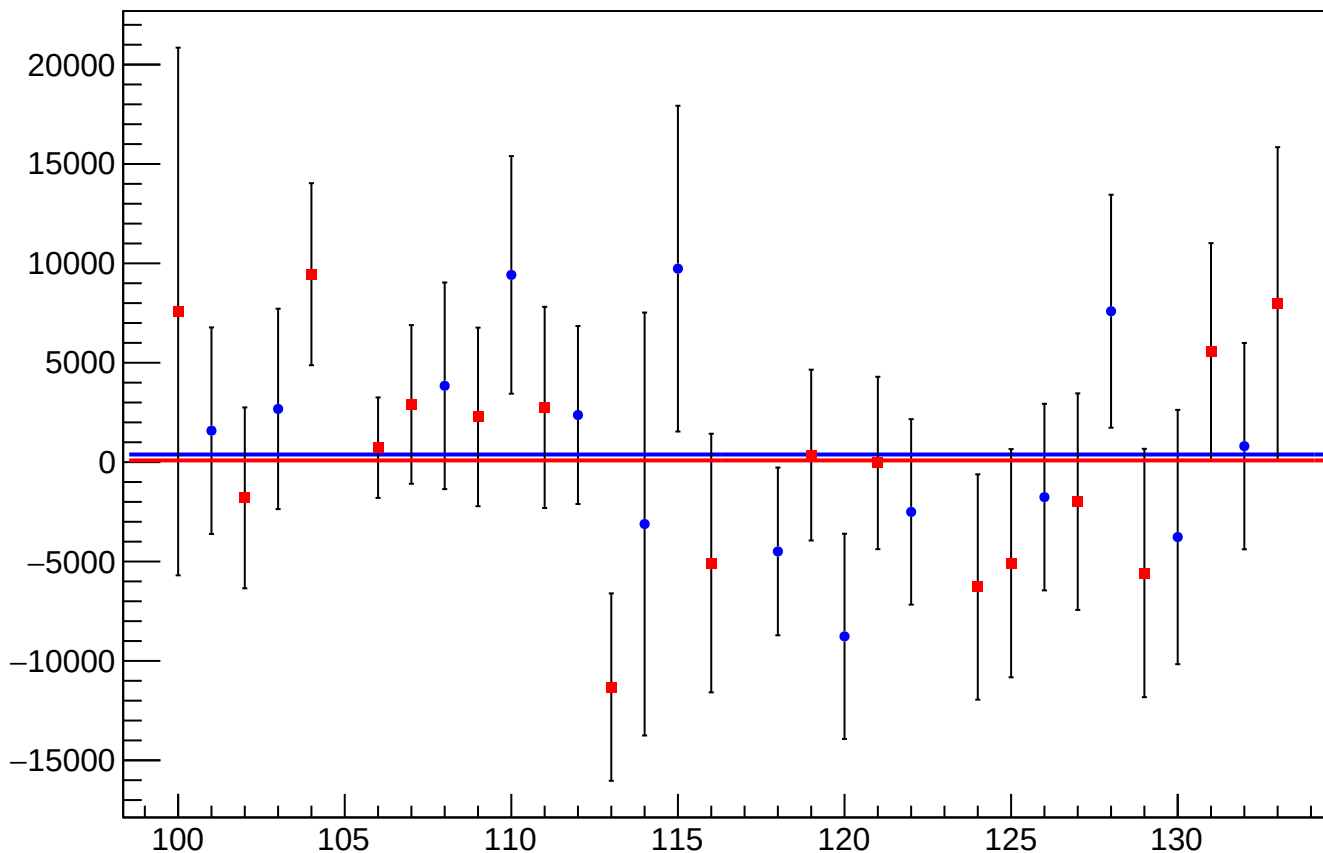
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1288.116+/-0.262  $\chi^2/\text{NDF}$ : 820976.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_reg\_correction\_mean vs Slug



Right In: 384.055 $\pm$ 1427.553  $\chi^2$ /NDF: 11.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 86.795 $\pm$ 1150.348  $\chi^2$ /NDF: 17.3/16

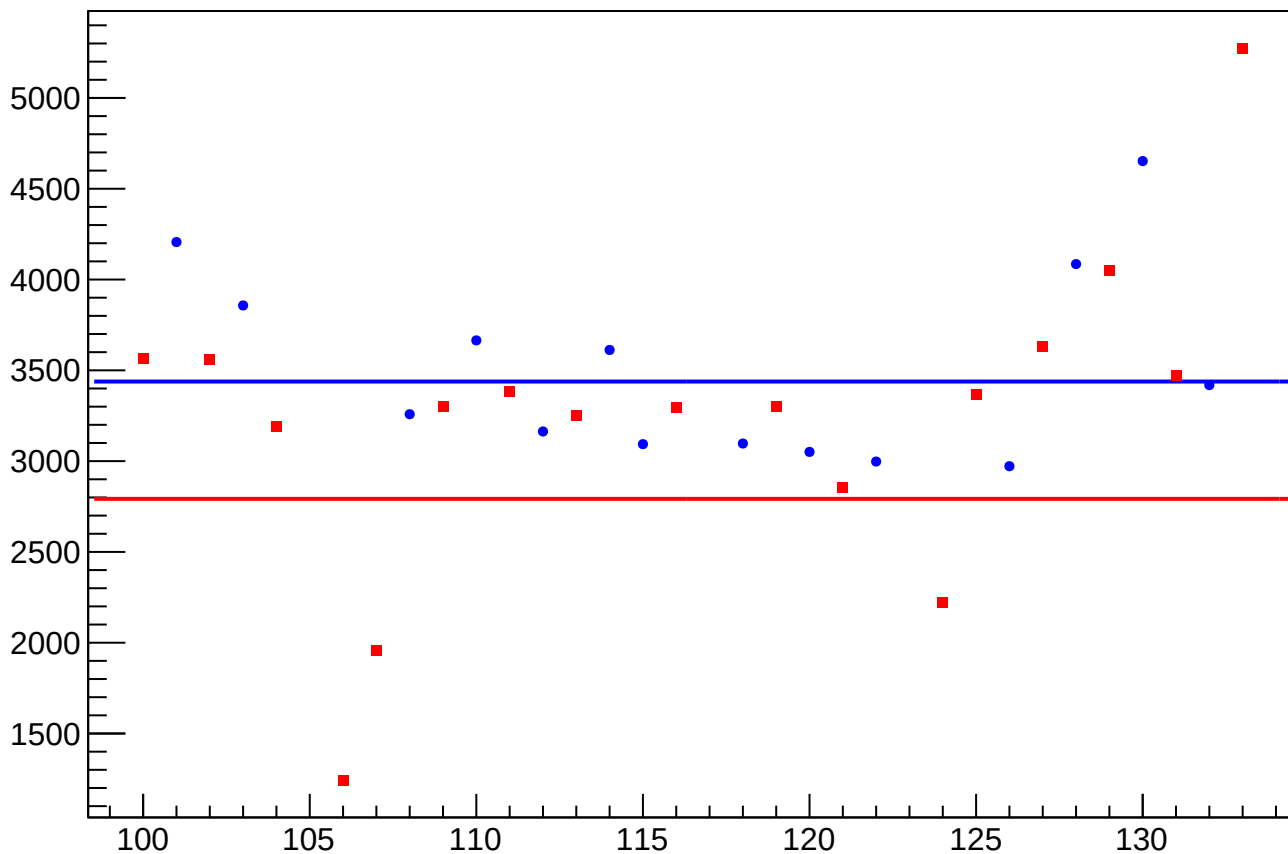
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 203.826 $\pm$ 895.723  $\chi^2$ /NDF: 28.9/30

- 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: 3438.273+/-1.009  $\chi^2/\text{NDF}$ : 232786.0/13

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: 2792.290+/-0.813  $\chi^2/\text{NDF}$ : 1429809.5/16

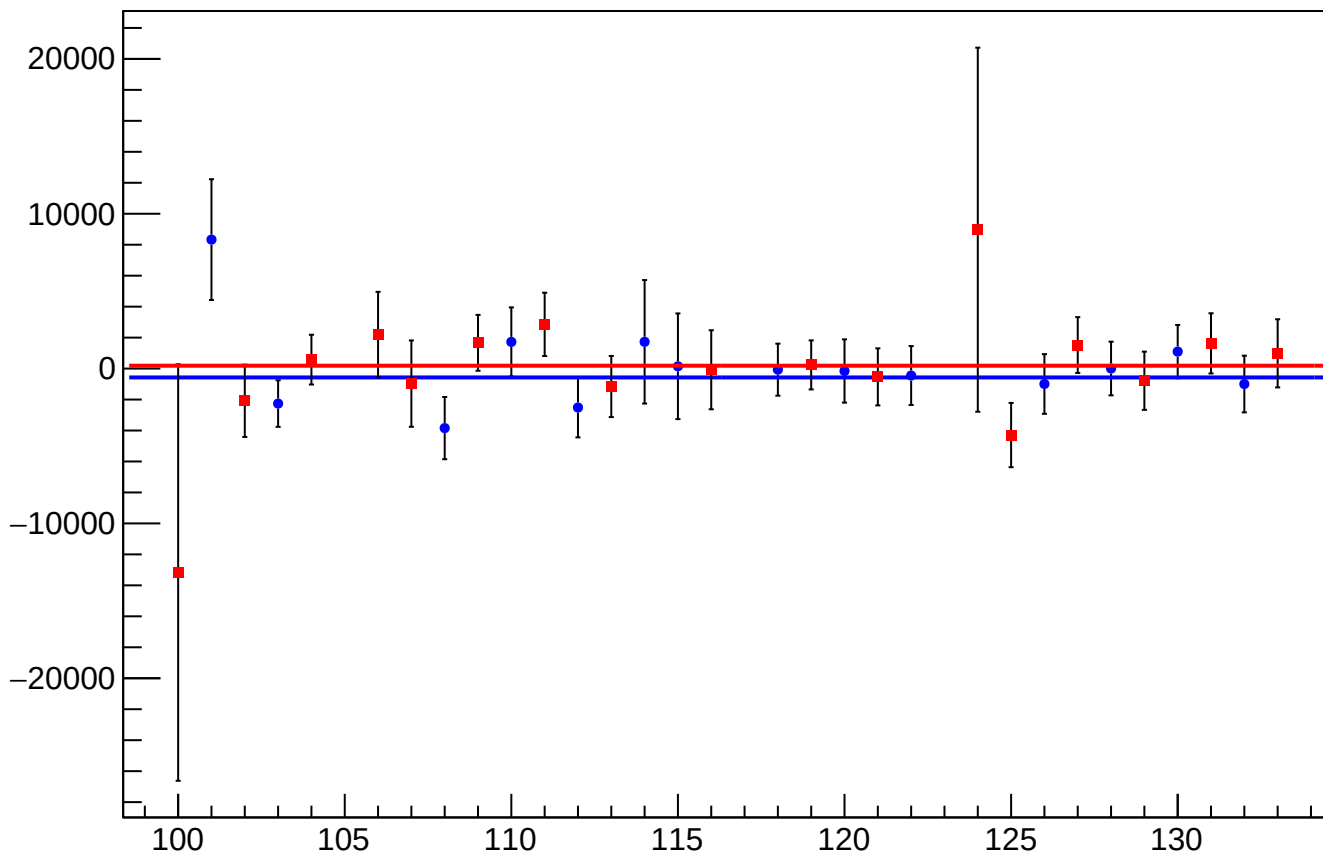
All: 3046.612+/-0.633  $\chi^2/\text{NDF}$ : 1910895.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -572.381+/-535.663  $\chi^2/\text{NDF}$ : 12.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 185.468+/-513.871  $\chi^2/\text{NDF}$ : 12.4/16

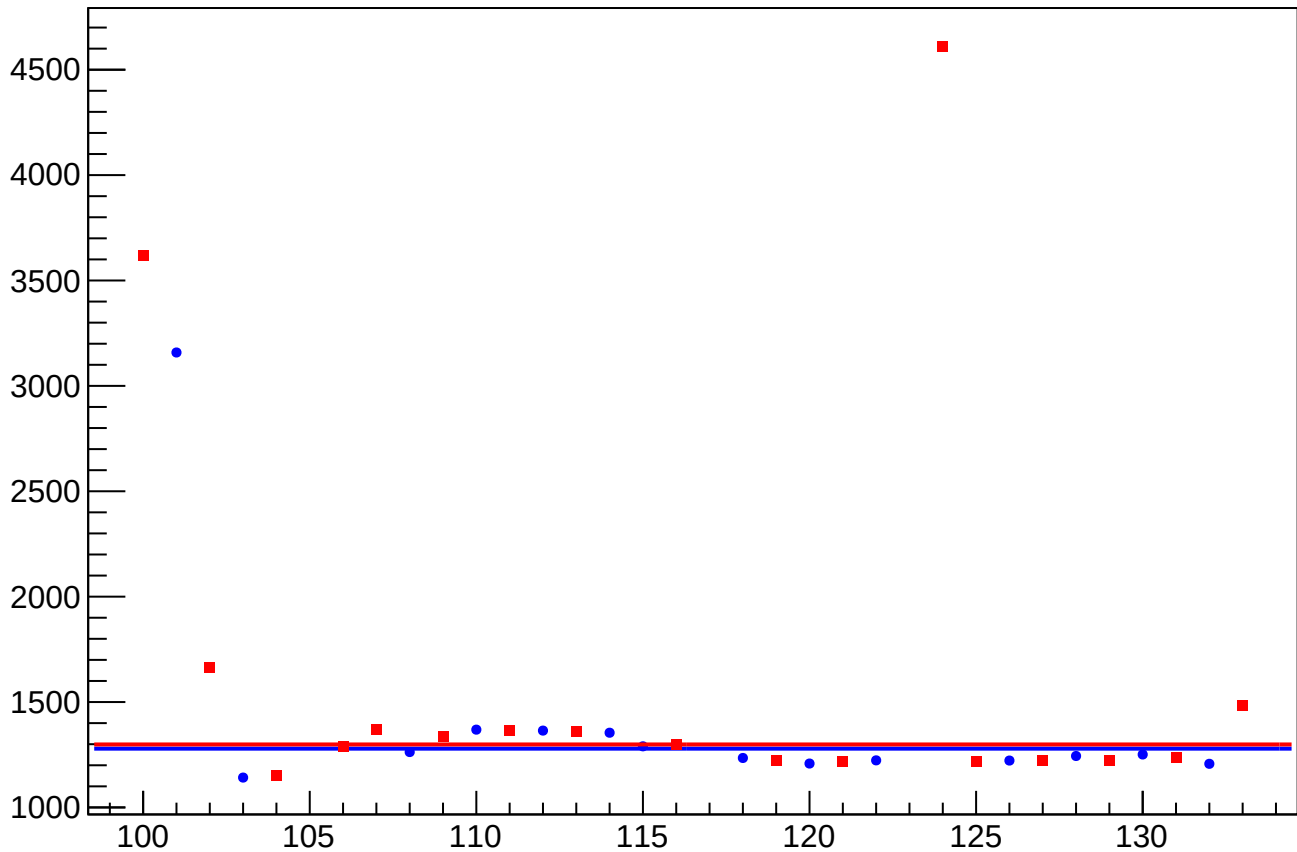
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -177.728+/-370.827  $\chi^2/\text{NDF}$ : 26.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1278.879+/-0.379  $\chi^2/\text{NDF}$ : 500879.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1298.796+/-0.363  $\chi^2/\text{NDF}$ : 325561.1/16

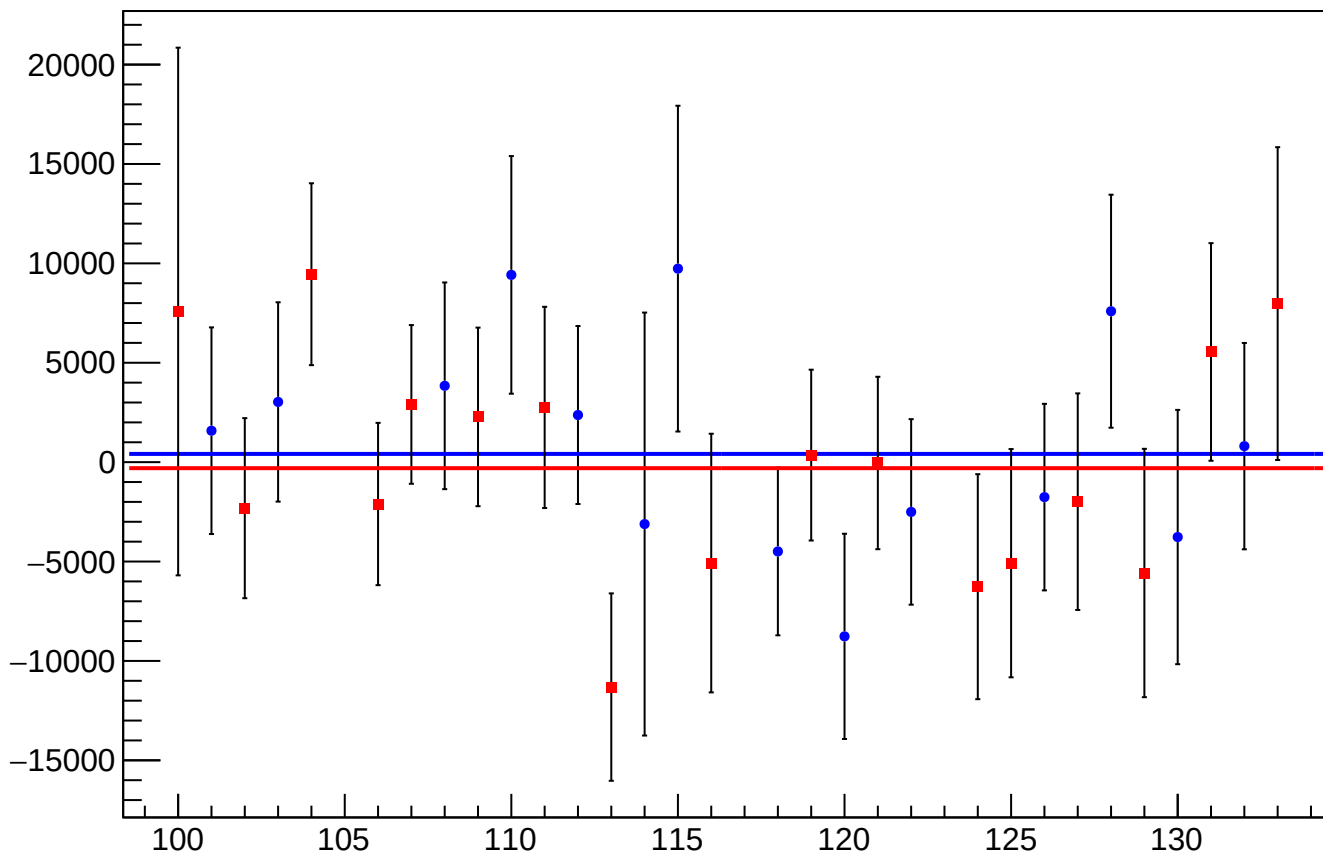
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1289.271+/-0.262  $\chi^2/\text{NDF}$ : 827883.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_cor\_correction\_mean vs Slug



Right In: 414.235 $\pm$ 1426.984  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -302.867 $\pm$ 1230.941  $\chi^2$ /NDF: 17.5/16

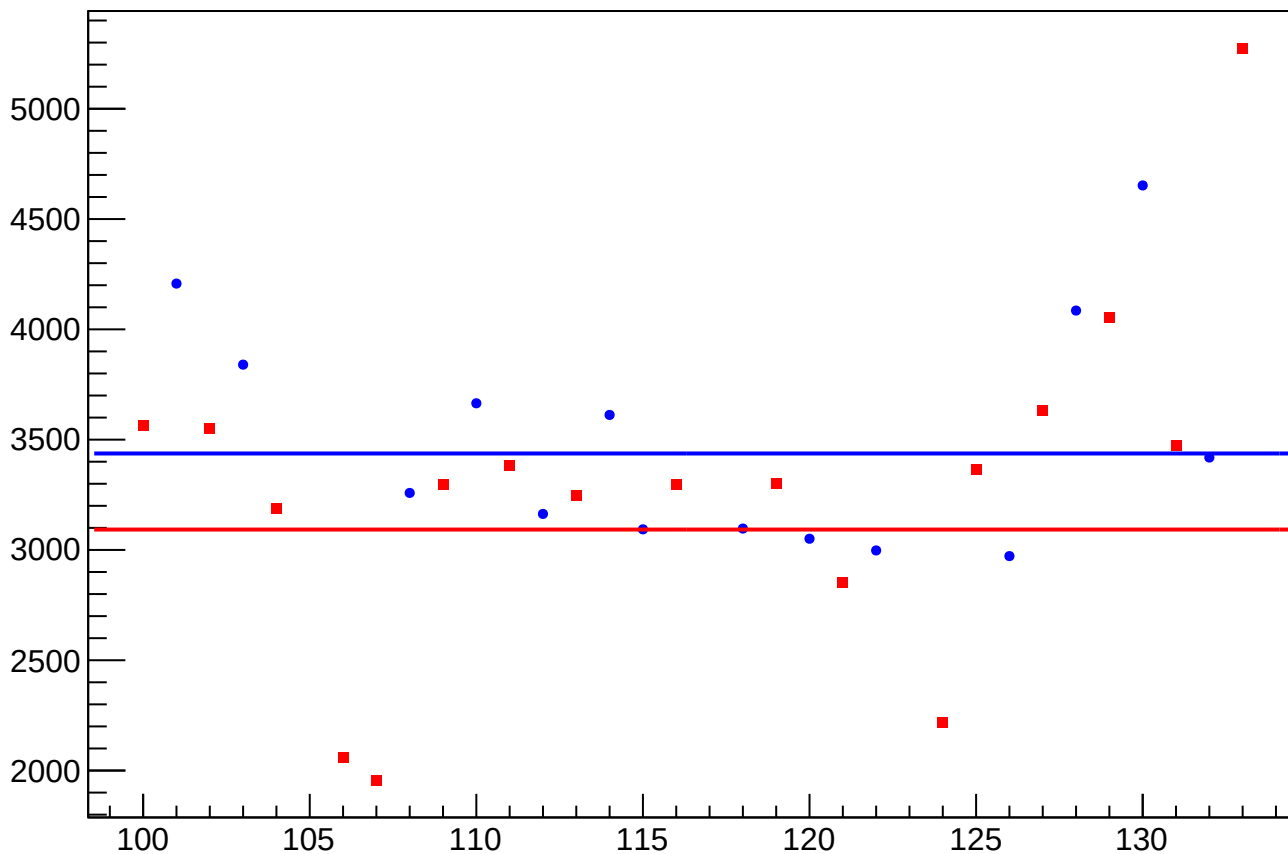
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.078 $\pm$ 932.074  $\chi^2$ /NDF: 29.3/30

- 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: 3437.268+/-1.009  $\chi^2/\text{NDF}$ : 231903.7/13

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

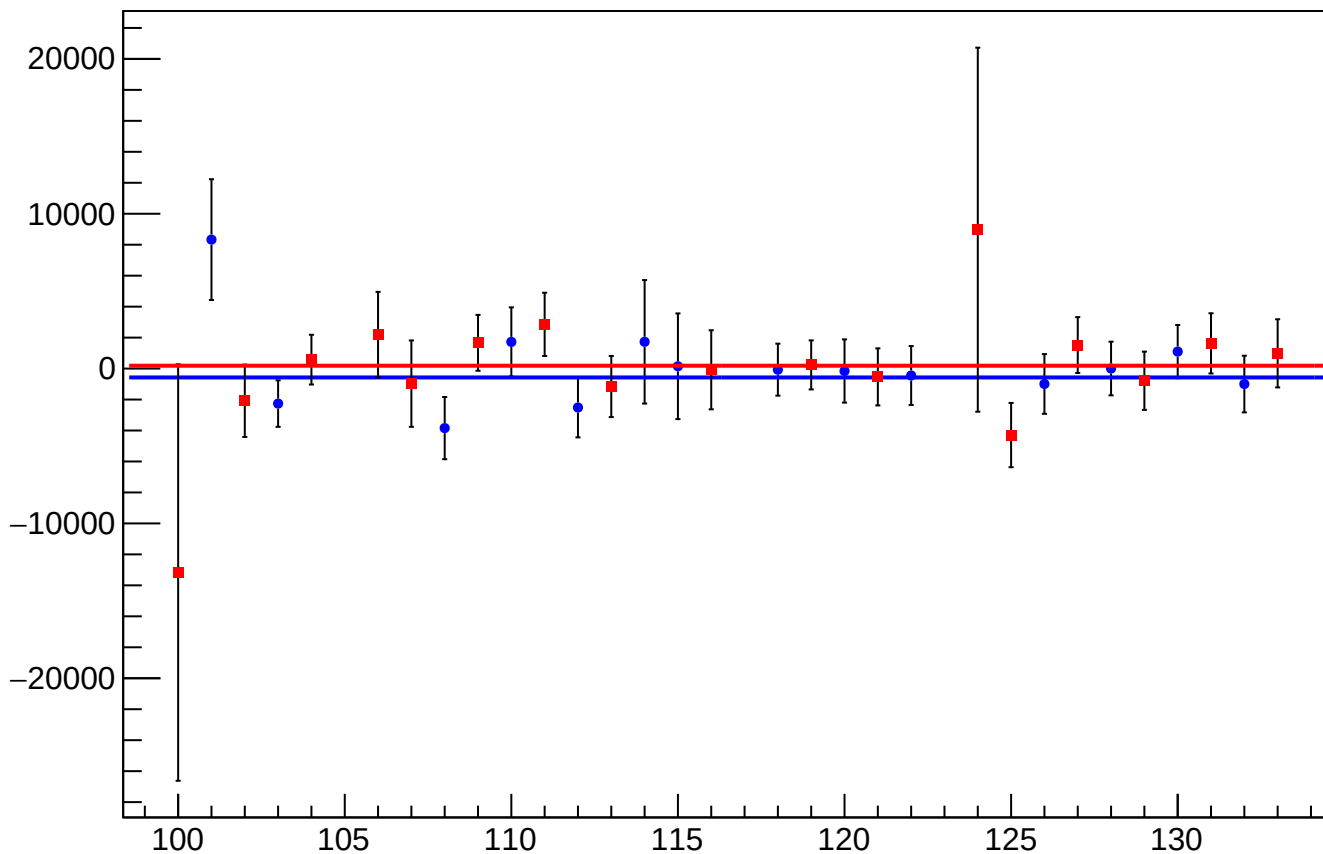
Right Out: 3092.446+/-0.870  $\chi^2/\text{NDF}$ : 621572.7/16

All: 3239.561+/-0.659  $\chi^2/\text{NDF}$ : 920435.5/30

- 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\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -572.381+/-535.663  $\chi^2/\text{NDF}$ : 12.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 185.468+/-513.871  $\chi^2/\text{NDF}$ : 12.4/16

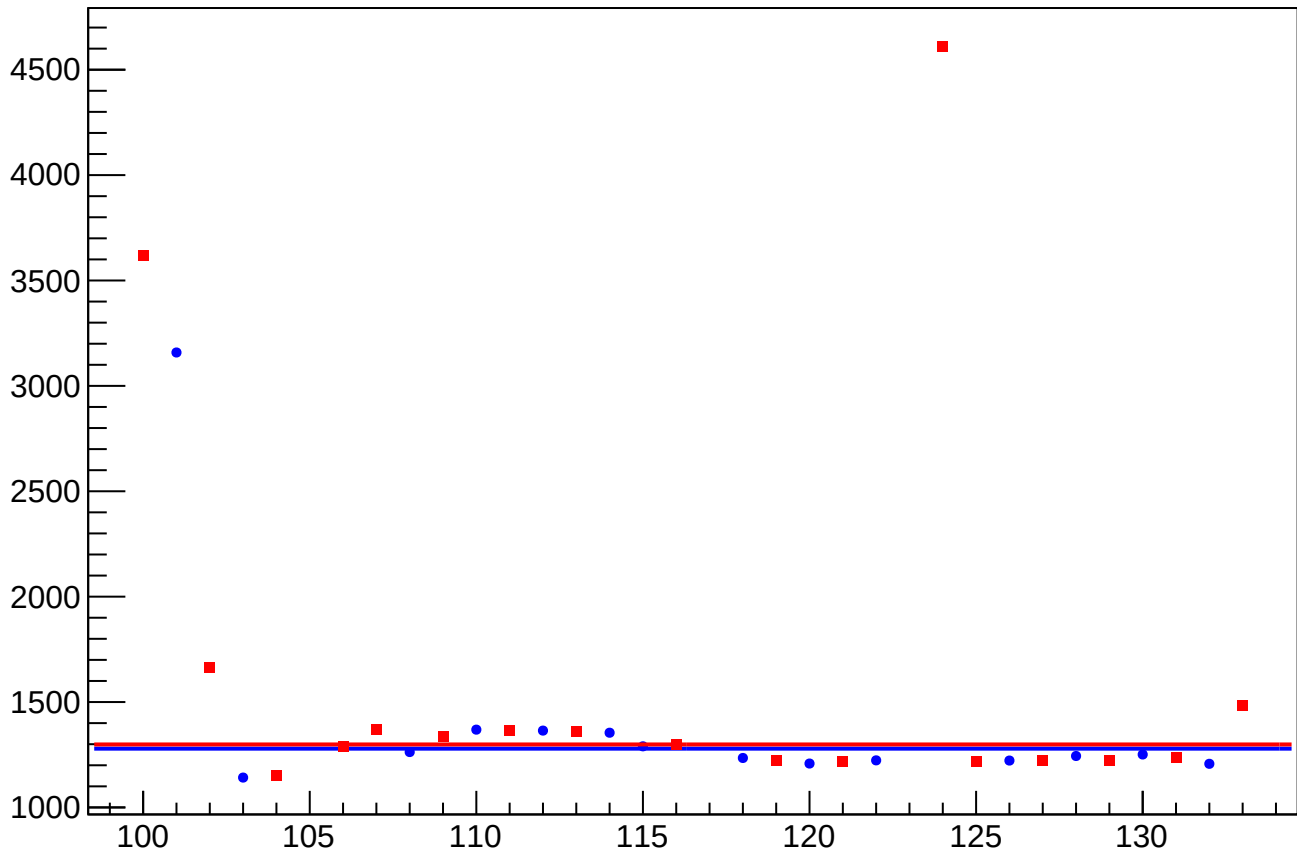
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -177.728+/-370.827  $\chi^2/\text{NDF}$ : 26.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1278.879+/-0.379  $\chi^2/\text{NDF}$ : 500879.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1298.796+/-0.363  $\chi^2/\text{NDF}$ : 325561.1/16

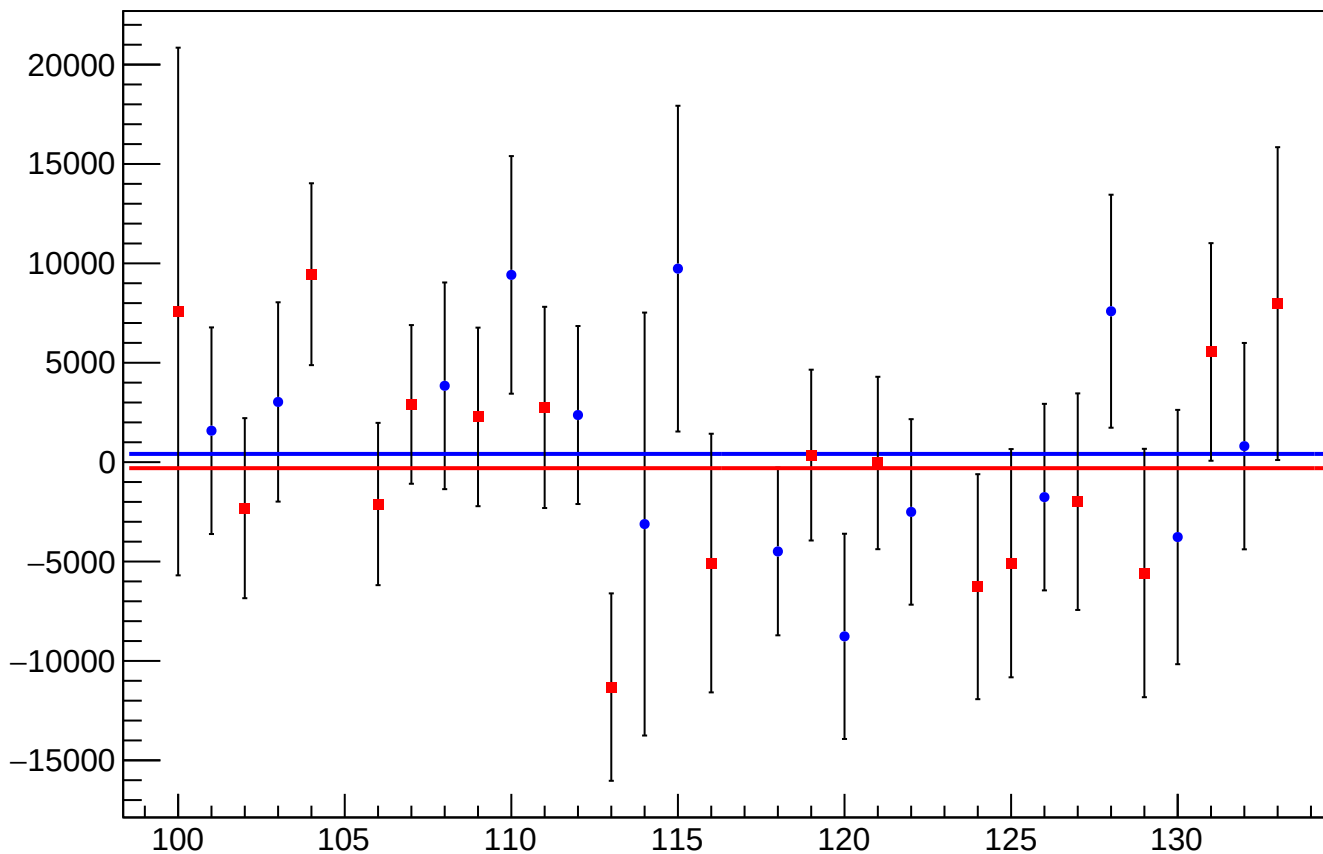
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1289.271+/-0.262  $\chi^2/\text{NDF}$ : 827883.3/30

- 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: 414.235 $\pm$ 1426.984  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -302.867 $\pm$ 1230.941  $\chi^2$ /NDF: 17.5/16

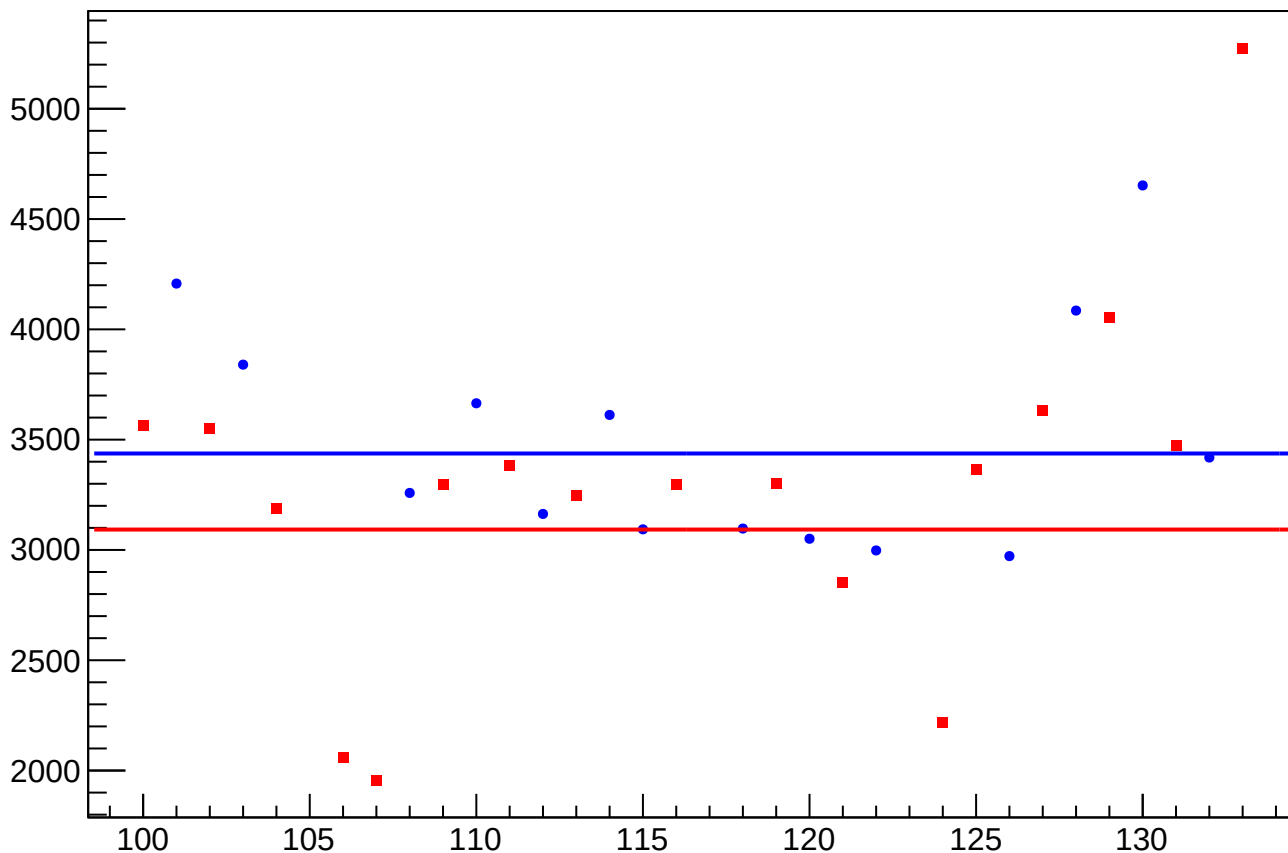
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.078 $\pm$ 932.074  $\chi^2$ /NDF: 29.3/30

- 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: 3437.268+/-1.009  $\chi^2/\text{NDF}$ : 231903.7/13

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: 3092.446+/-0.870  $\chi^2/\text{NDF}$ : 621572.7/16

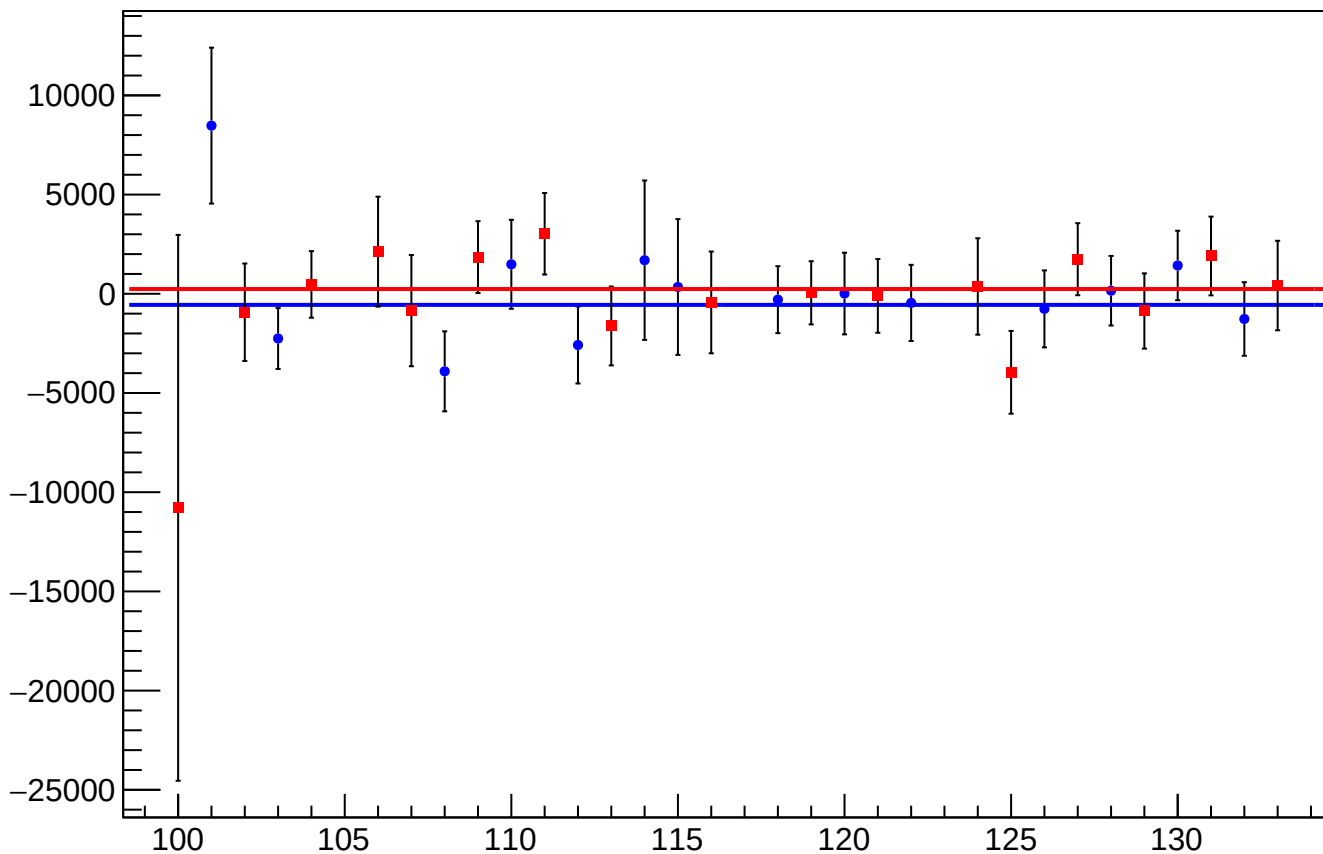
All: 3239.561+/-0.659  $\chi^2/\text{NDF}$ : 920435.5/30

- 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\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -558.551+/-541.173  $\chi^2$ /NDF: 13.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 240.257+/-509.871  $\chi^2$ /NDF: 10.9/16

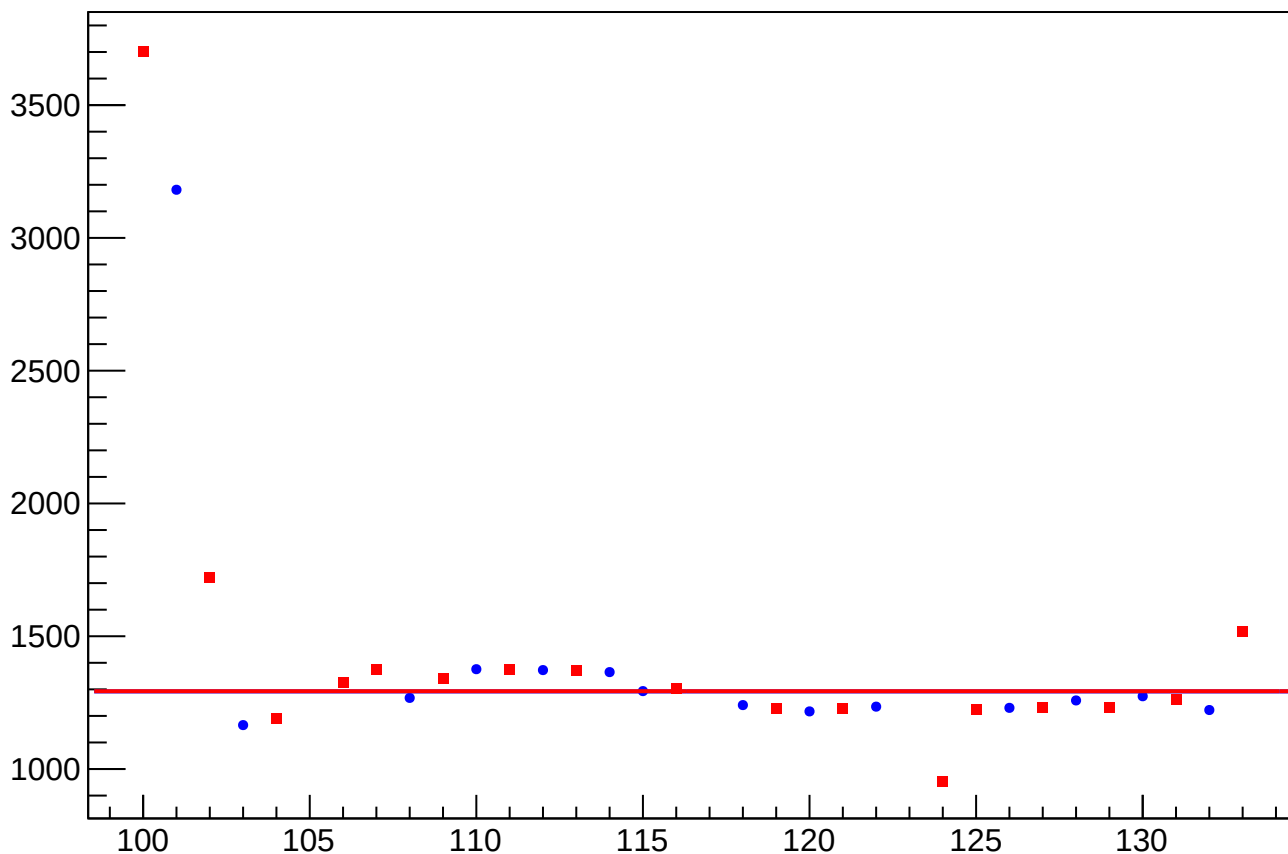
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -135.379+/-371.106  $\chi^2$ /NDF: 25.3/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1292.213+/-0.383  $\chi^2/\text{NDF}$ : 495291.6/13

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

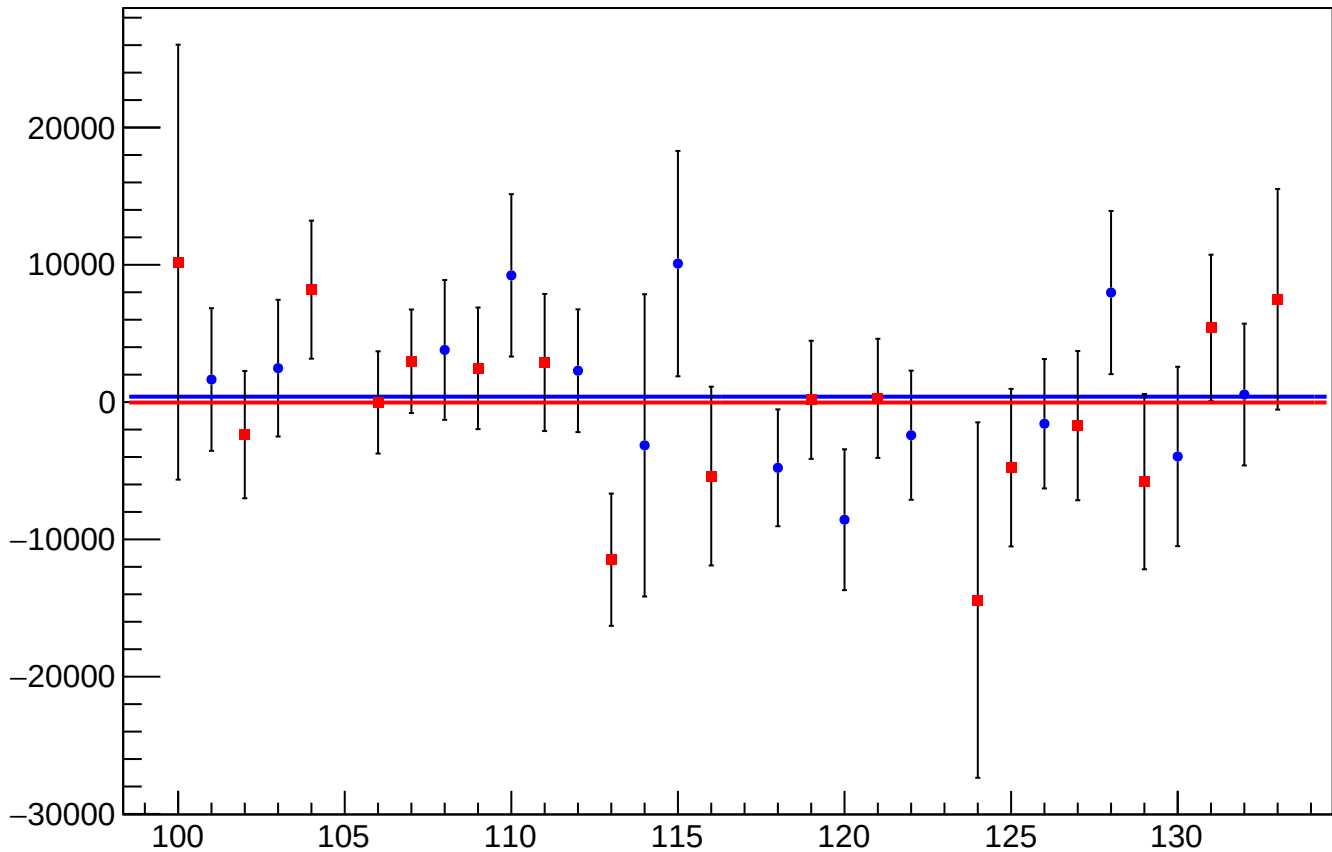
Right Out: 1293.041+/-0.360  $\chi^2/\text{NDF}$ : 211204.6/16

All: 1292.652+/-0.262  $\chi^2/\text{NDF}$ : 706498.6/30

- 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\_dit\_correction\_mean vs Slug



Right In: 394.695 $\pm$ 1428.125  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -30.502 $\pm$ 1247.043  $\chi^2$ /NDF: 15.7/16

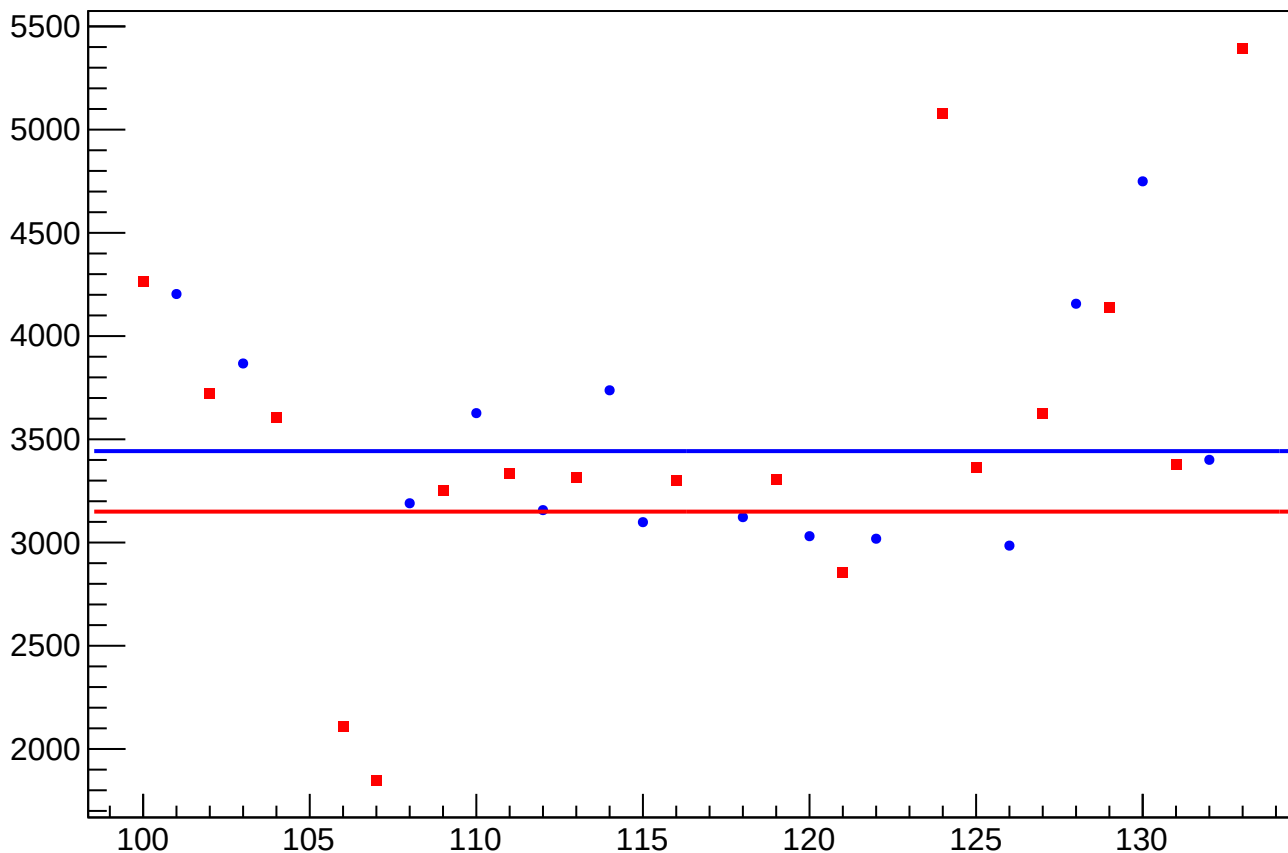
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 153.446 $\pm$ 939.331  $\chi^2$ /NDF: 27.5/30

- 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: 3442.793+/-1.010  $\chi^2/\text{NDF}$ : 245736.0/13

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

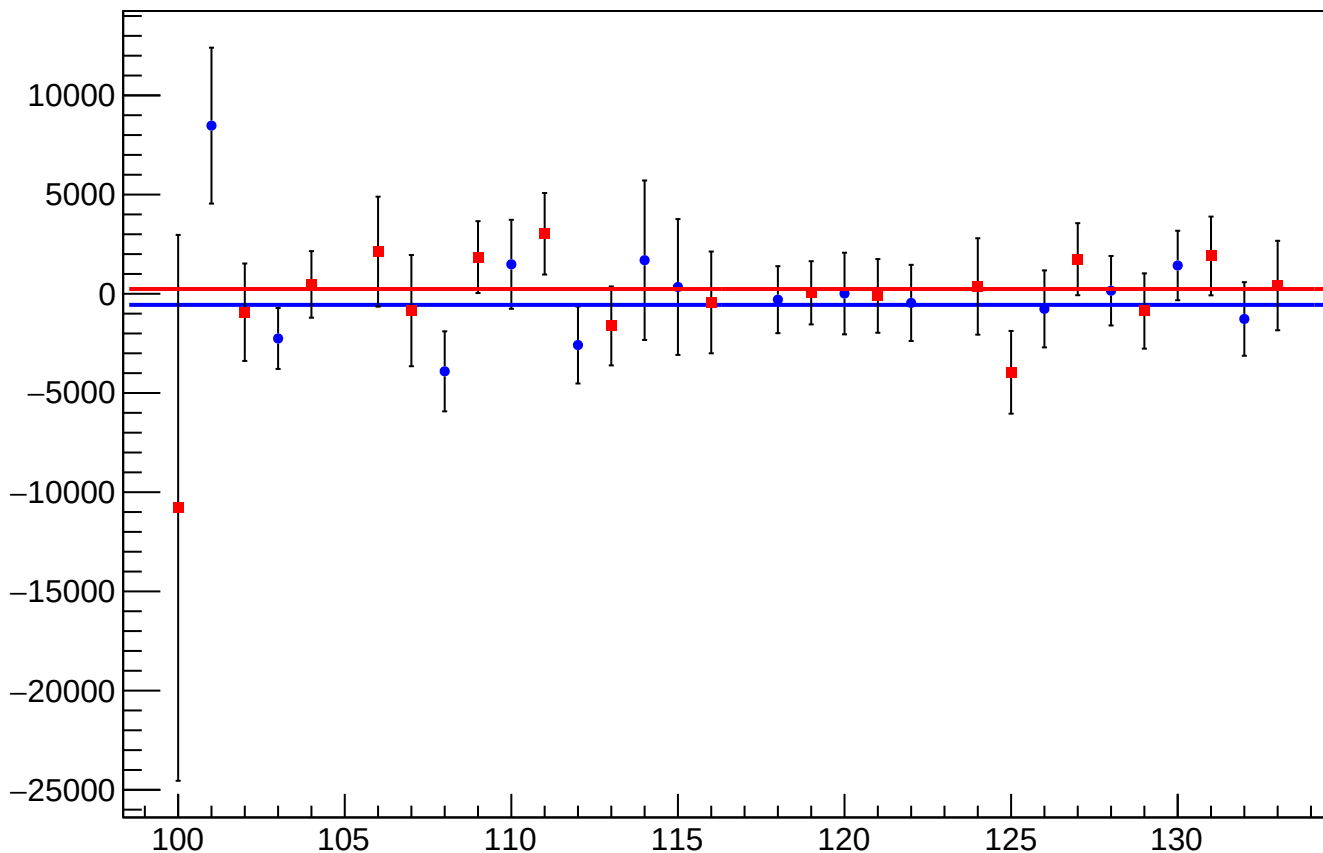
Right Out: 3149.771+/-0.882  $\chi^2/\text{NDF}$ : 741142.1/16

All: 3276.538+/-0.664  $\chi^2/\text{NDF}$ : 1034650.0/30

- 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\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -558.555+/-541.173  $\chi^2/\text{NDF}$ : 13.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 240.262+/-509.871  $\chi^2/\text{NDF}$ : 10.9/16

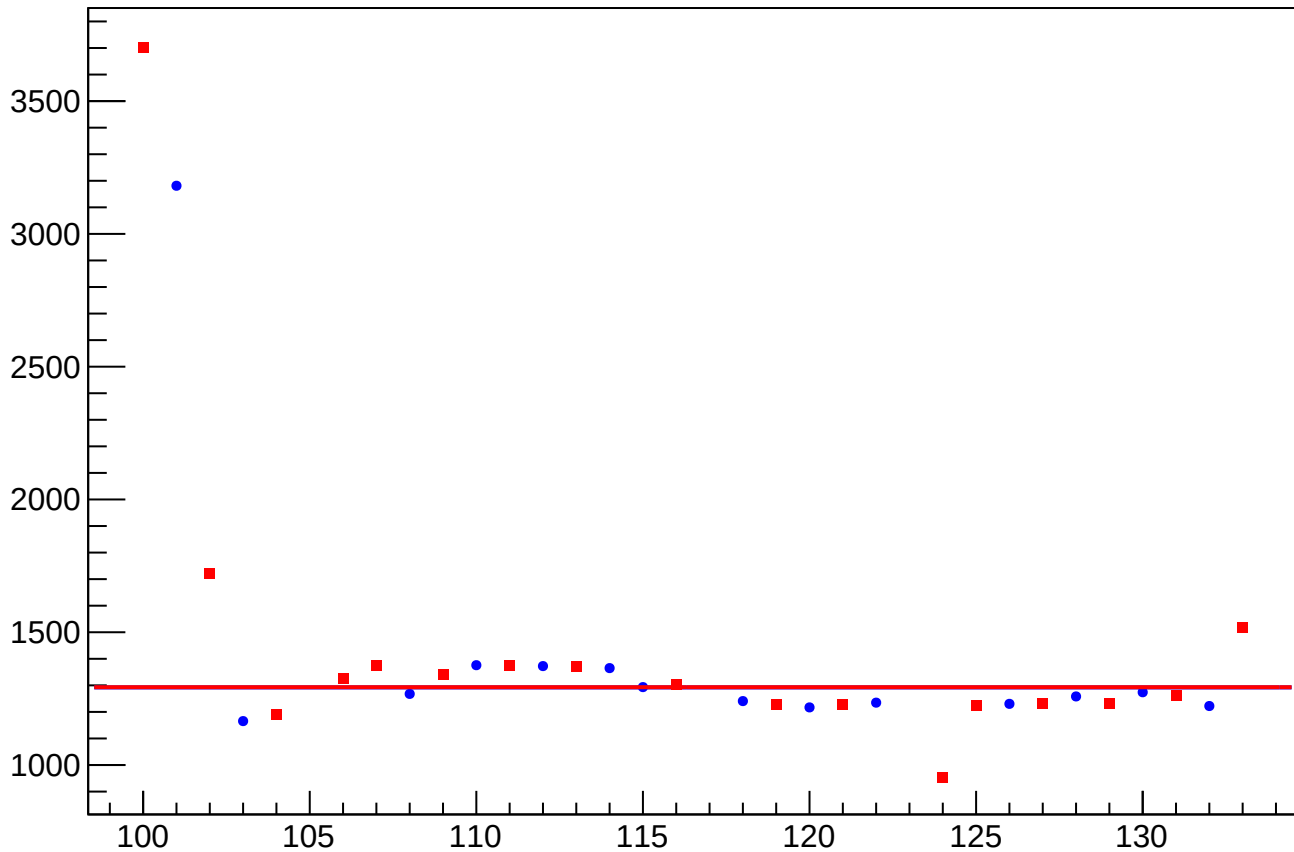
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -135.377+/-371.106  $\chi^2/\text{NDF}$ : 25.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1292.213+/-0.383  $\chi^2/\text{NDF}$ : 495291.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1293.041+/-0.360  $\chi^2/\text{NDF}$ : 211204.6/16

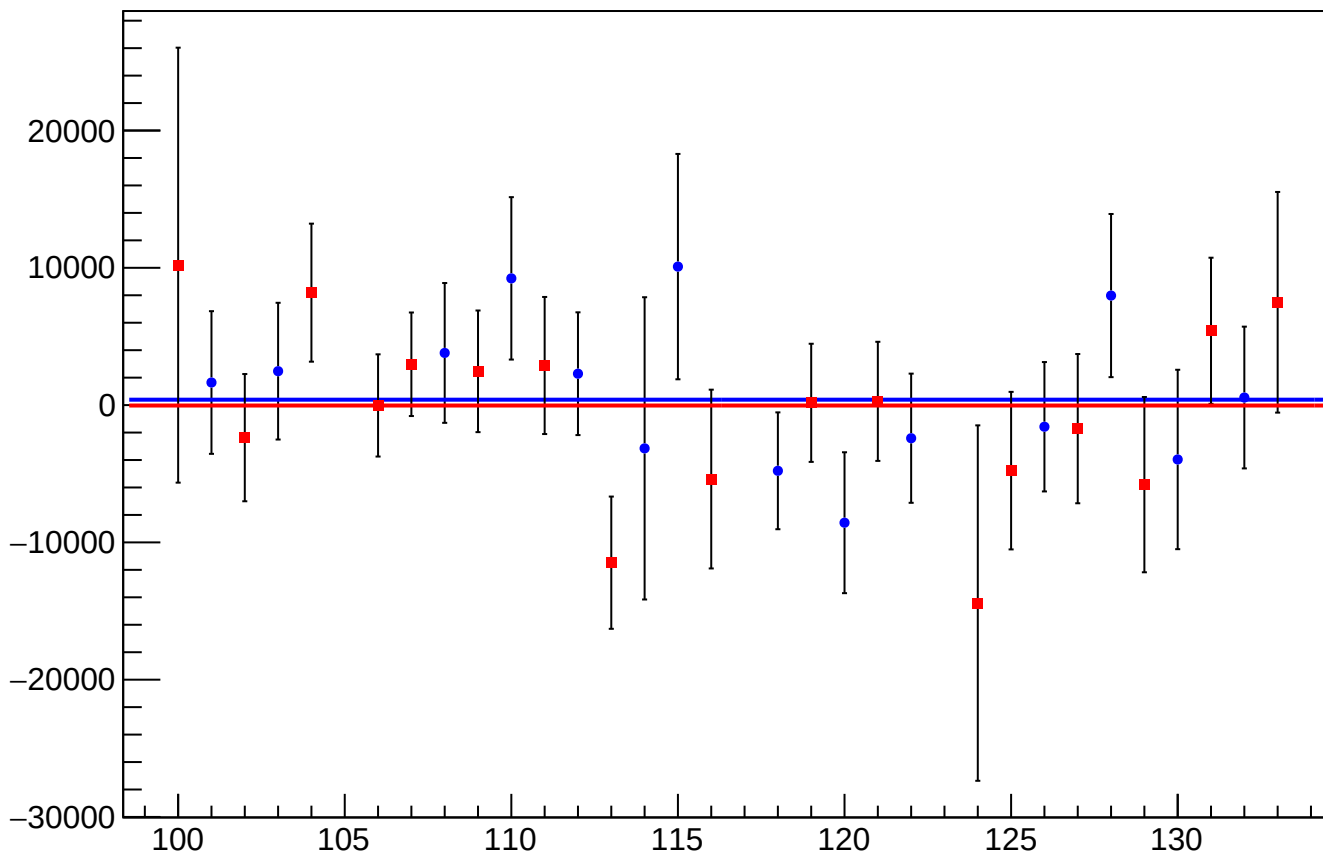
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1292.652+/-0.262  $\chi^2/\text{NDF}$ : 706498.7/30

- sign 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: 394.689 $\pm$ 1428.120  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -30.498 $\pm$ 1247.039  $\chi^2$ /NDF: 15.7/16

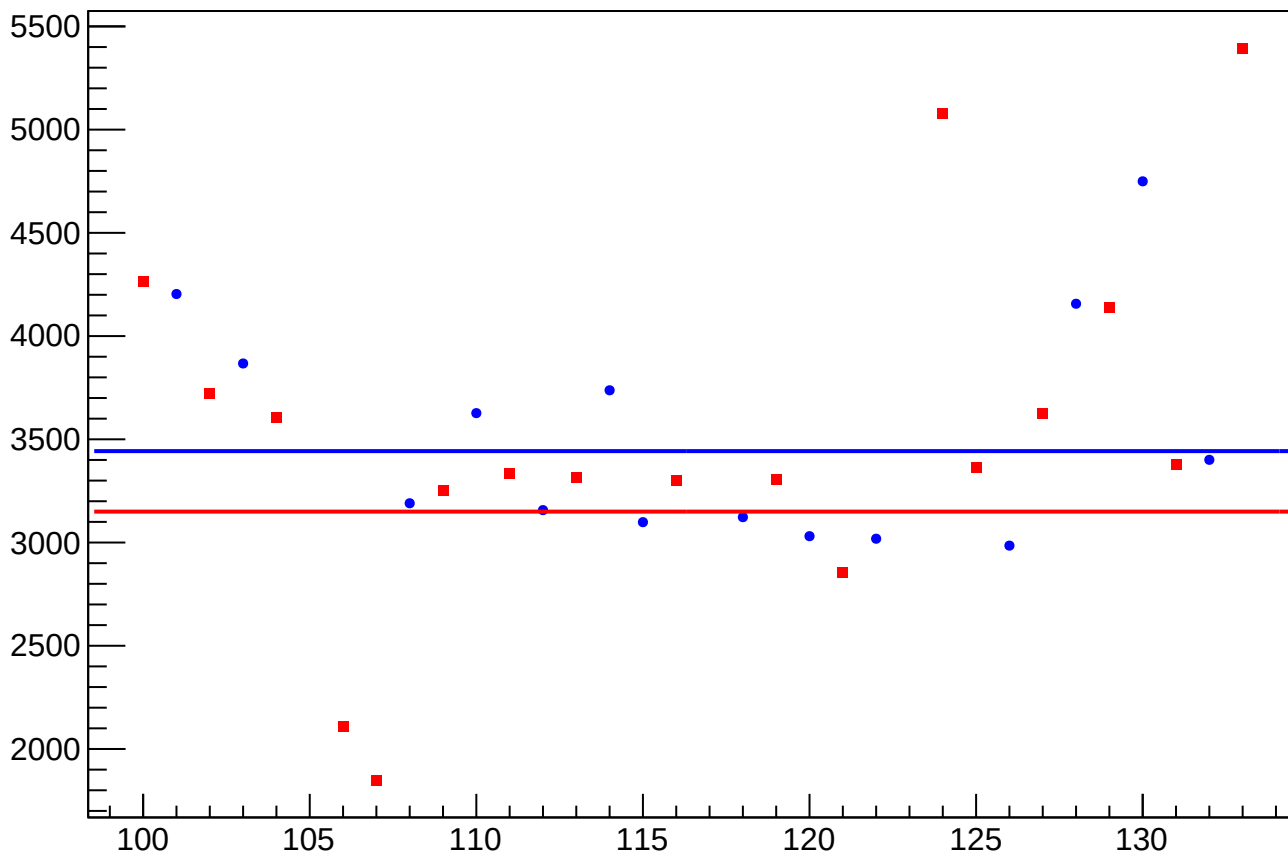
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 153.446 $\pm$ 939.329  $\chi^2$ /NDF: 27.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 3442.782+/-1.010  $\chi^2/\text{NDF}$ : 245738.3/13

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: 3149.762+/-0.882  $\chi^2/\text{NDF}$ : 741142.7/16

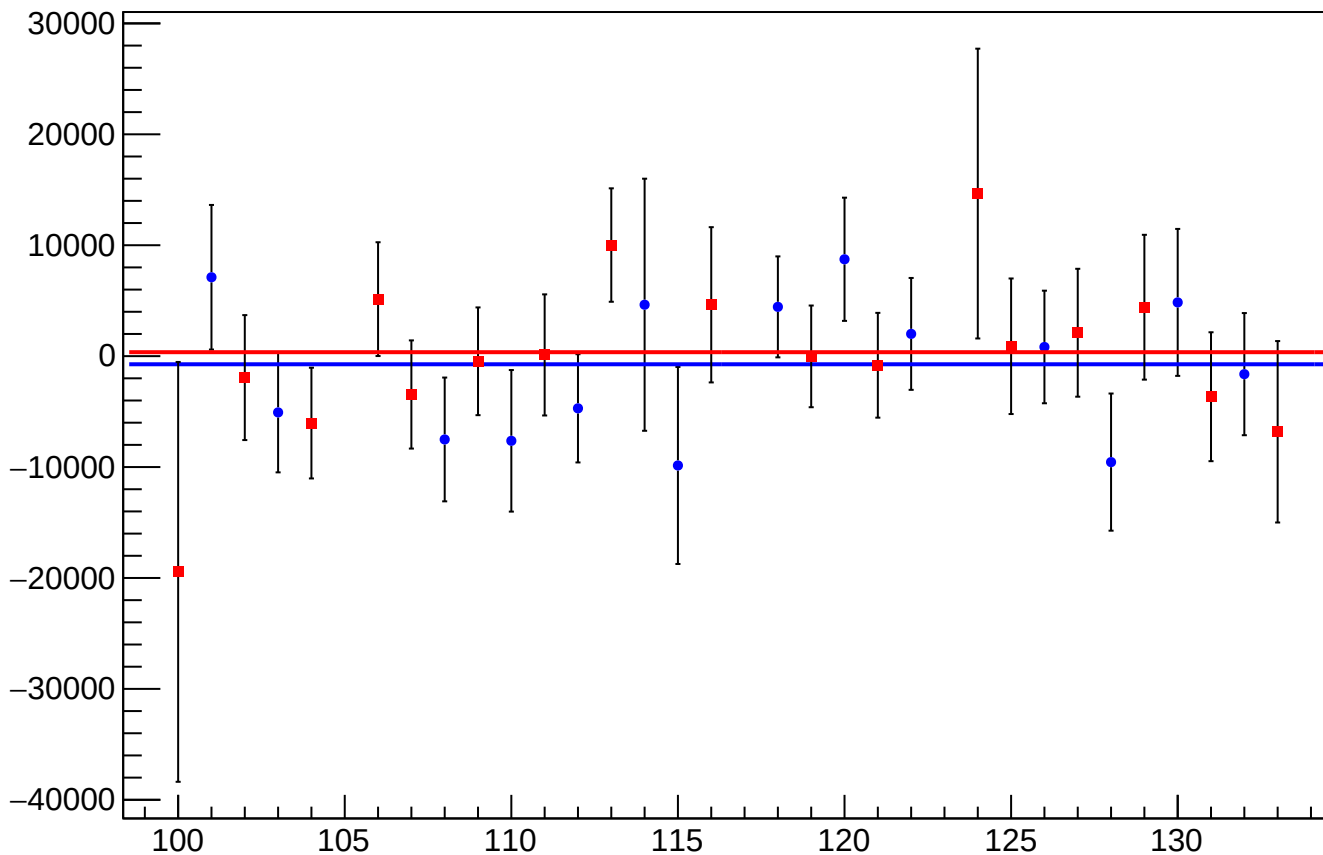
All: 3276.528+/-0.664  $\chi^2/\text{NDF}$ : 1034652.4/30

- 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\_mean vs Slug



Right In: -732.780 $\pm$ 1547.449  $\chi^2$ /NDF: 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 356.476 $\pm$ 1397.238  $\chi^2$ /NDF: 11.4/16

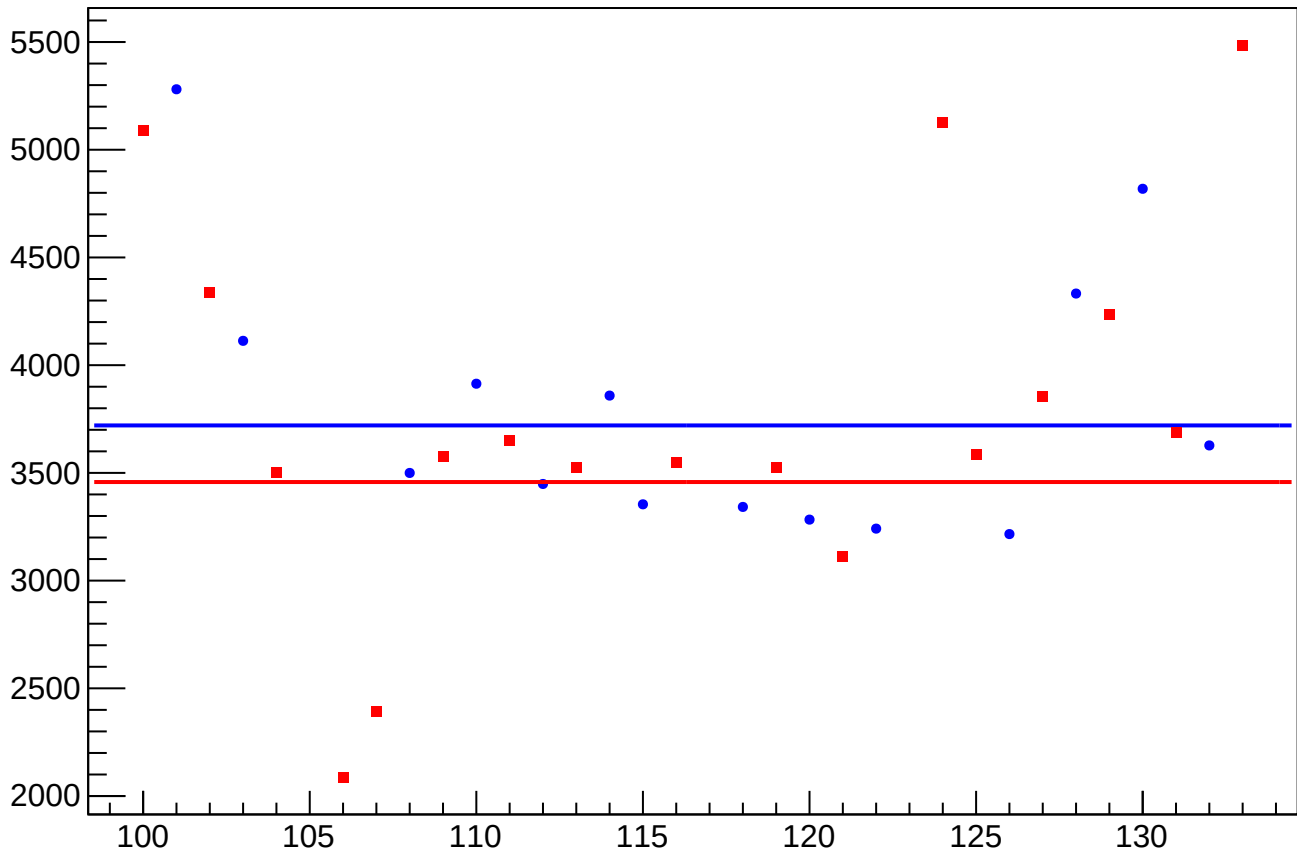
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -132.732 $\pm$ 1037.047  $\chi^2$ /NDF: 25.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 3720.318+/-1.094  $\chi^2/\text{NDF}$ : 279184.5/13

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

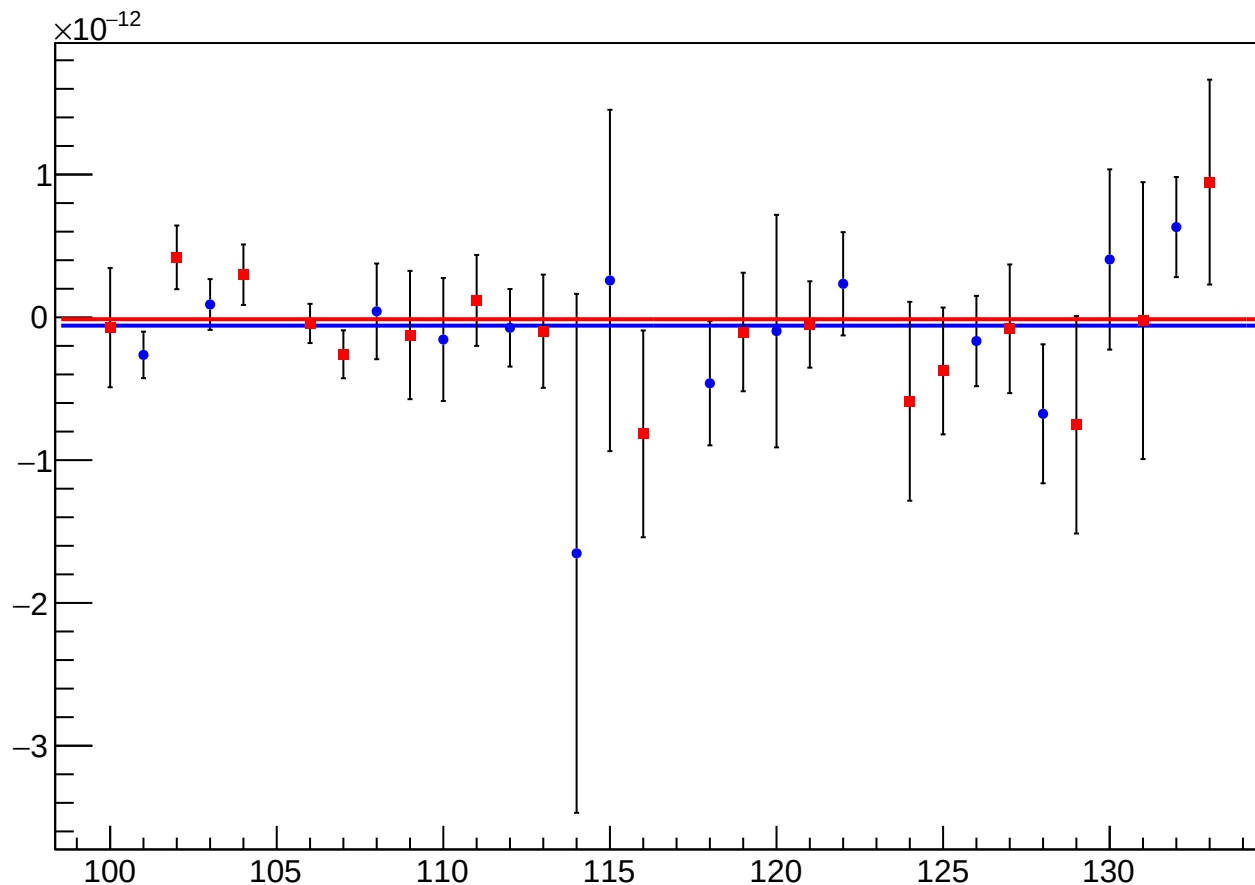
Right Out: 3457.587+/-0.973  $\chi^2/\text{NDF}$ : 572805.3/16

All: 3573.641+/-0.727  $\chi^2/\text{NDF}$ : 884176.9/30

- 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\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.8/16

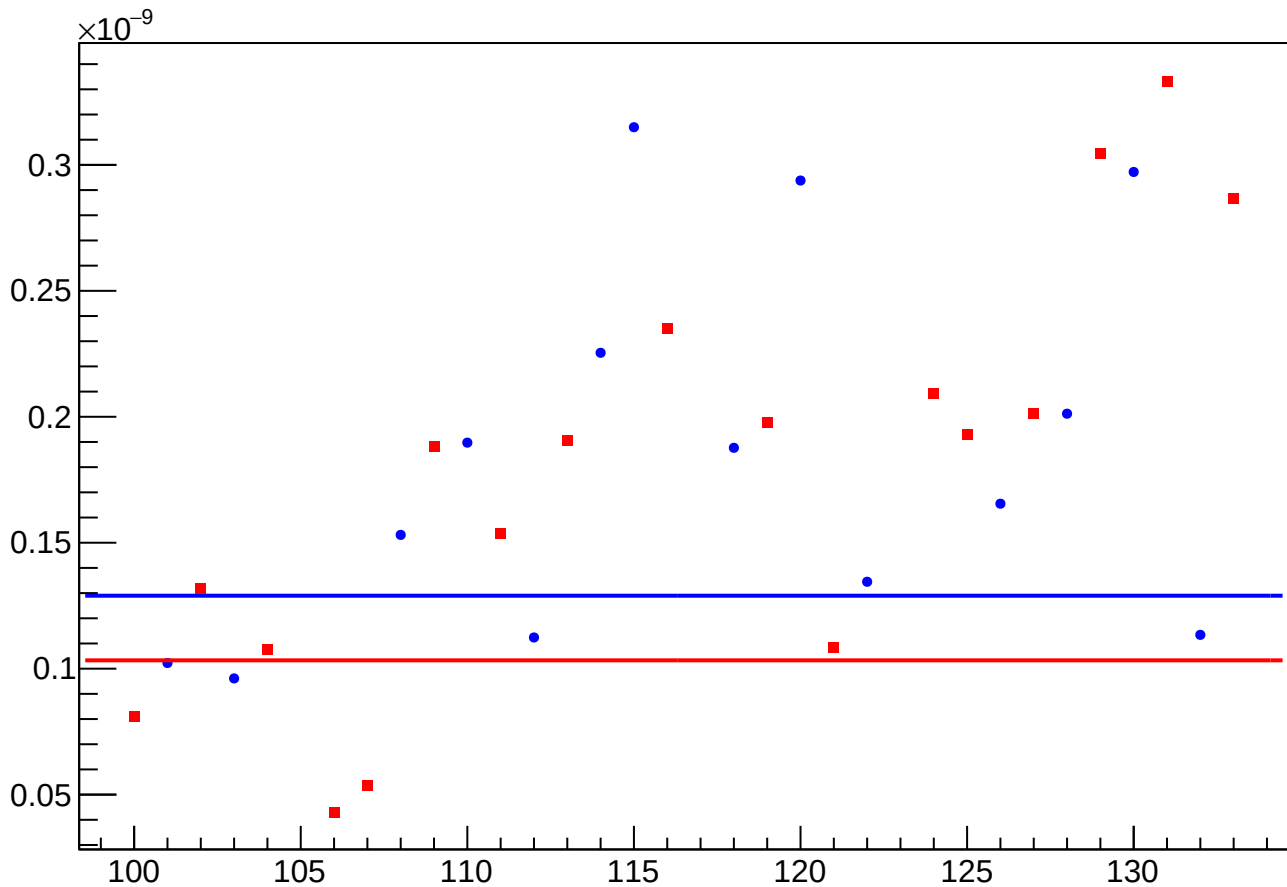
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 24.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 569496.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1596591.4/16

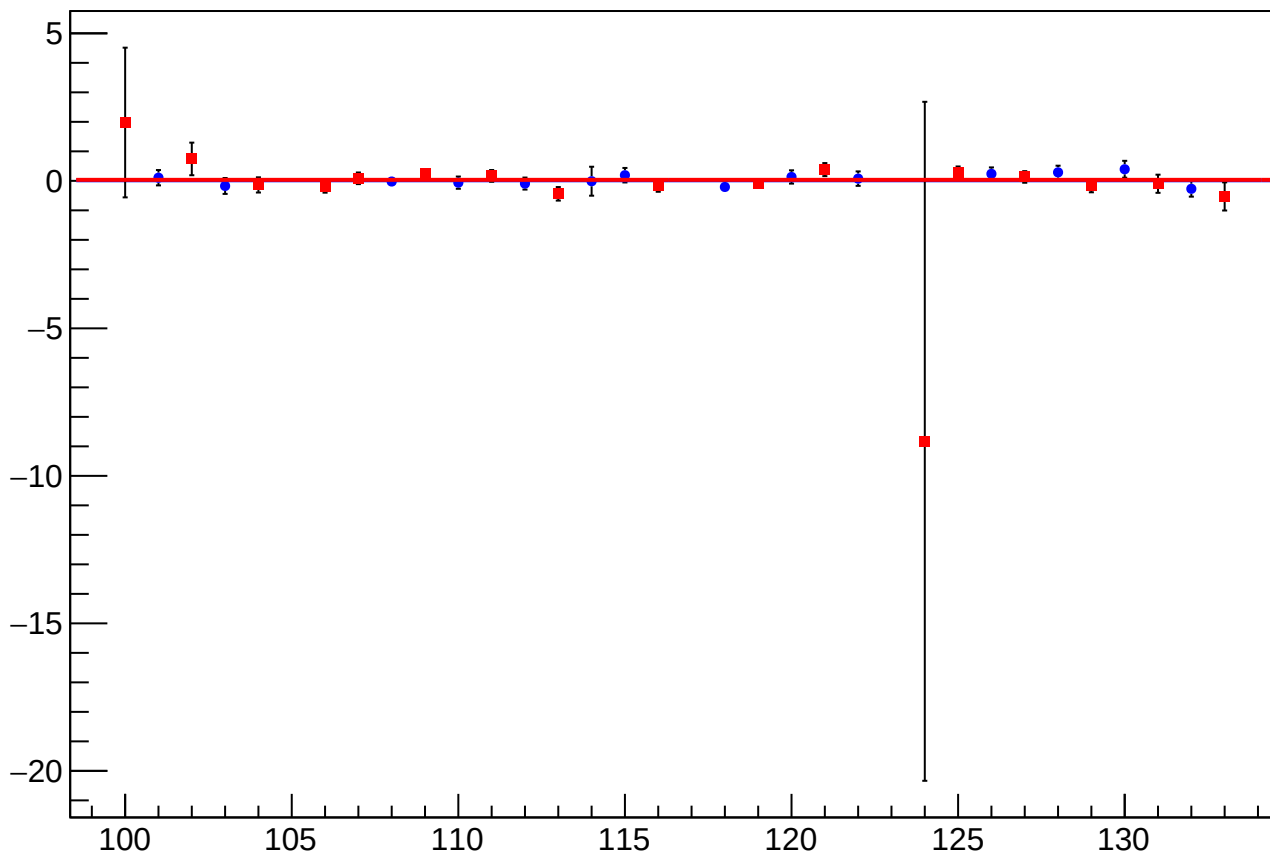
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2271899.8/30

- 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: 0.019 $\pm$ 0.060  $\chi^2$ /NDF: 9.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.034 $\pm$ 0.056  $\chi^2$ /NDF: 19.6/16

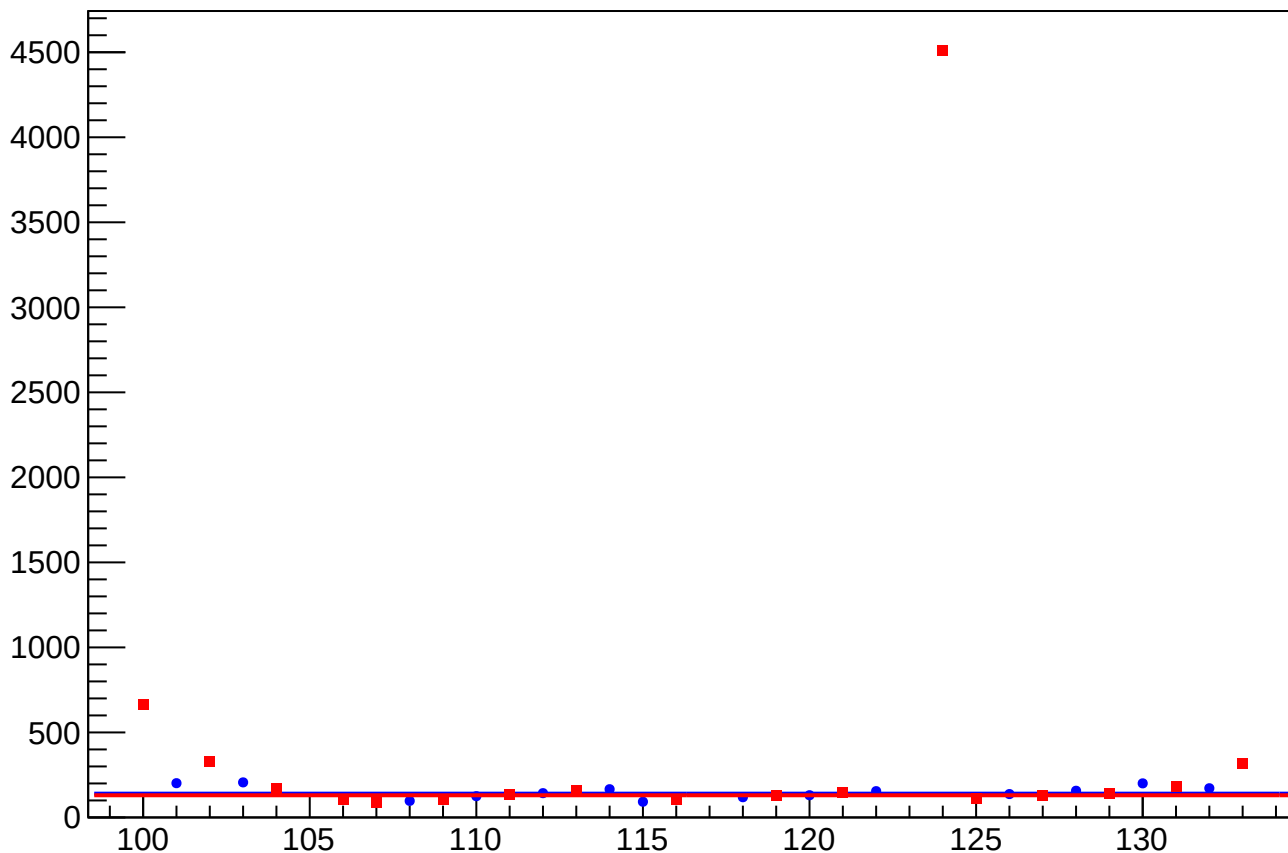
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.041  $\chi^2$ /NDF: 28.8/30

- 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:  $139.902 \pm 0.043$   $\chi^2/\text{NDF}$ : 637807.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $130.506 \pm 0.039$   $\chi^2/\text{NDF}$ : 1302037.0/16

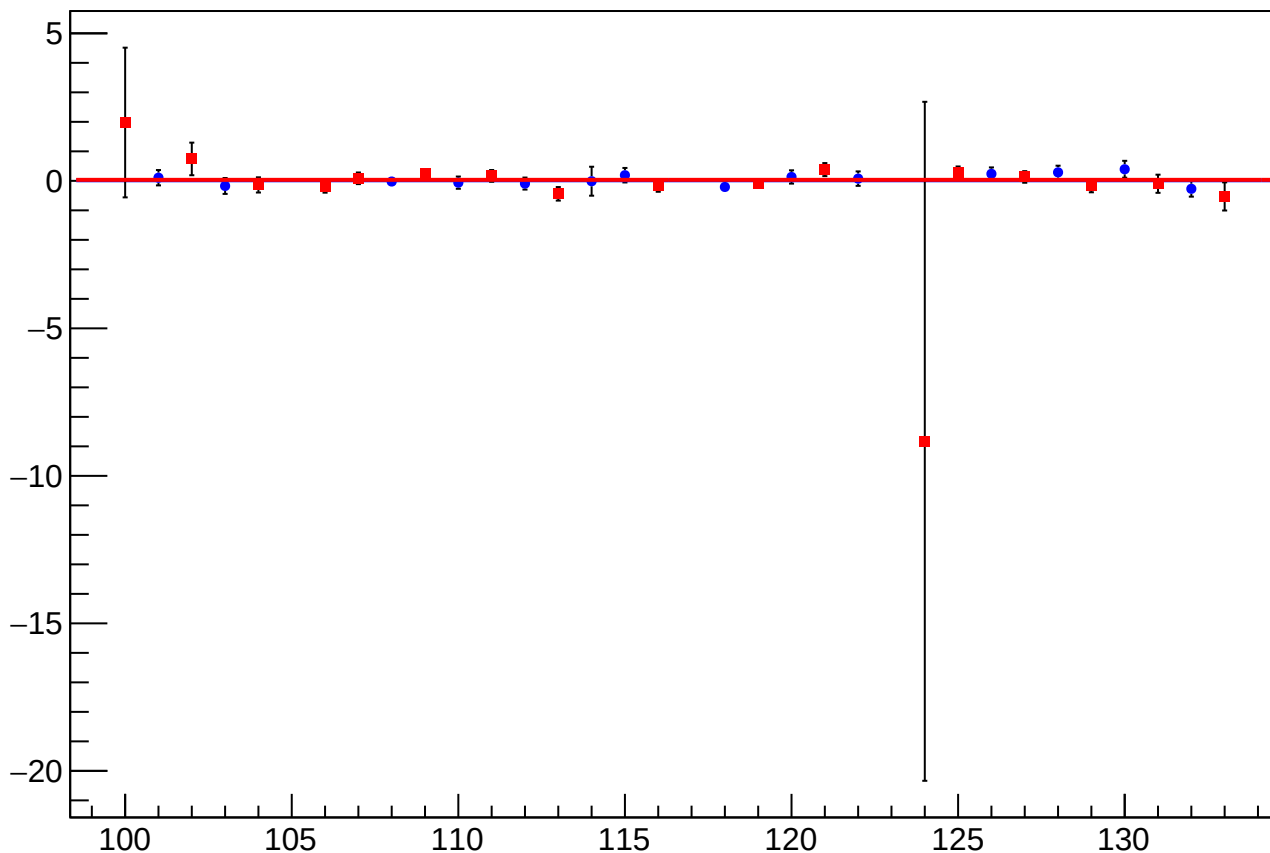
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $134.849 \pm 0.029$   $\chi^2/\text{NDF}$ : 1966105.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.019+/-0.060  $\chi^2/\text{NDF}$ : 9.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.034+/-0.056  $\chi^2/\text{NDF}$ : 19.6/16

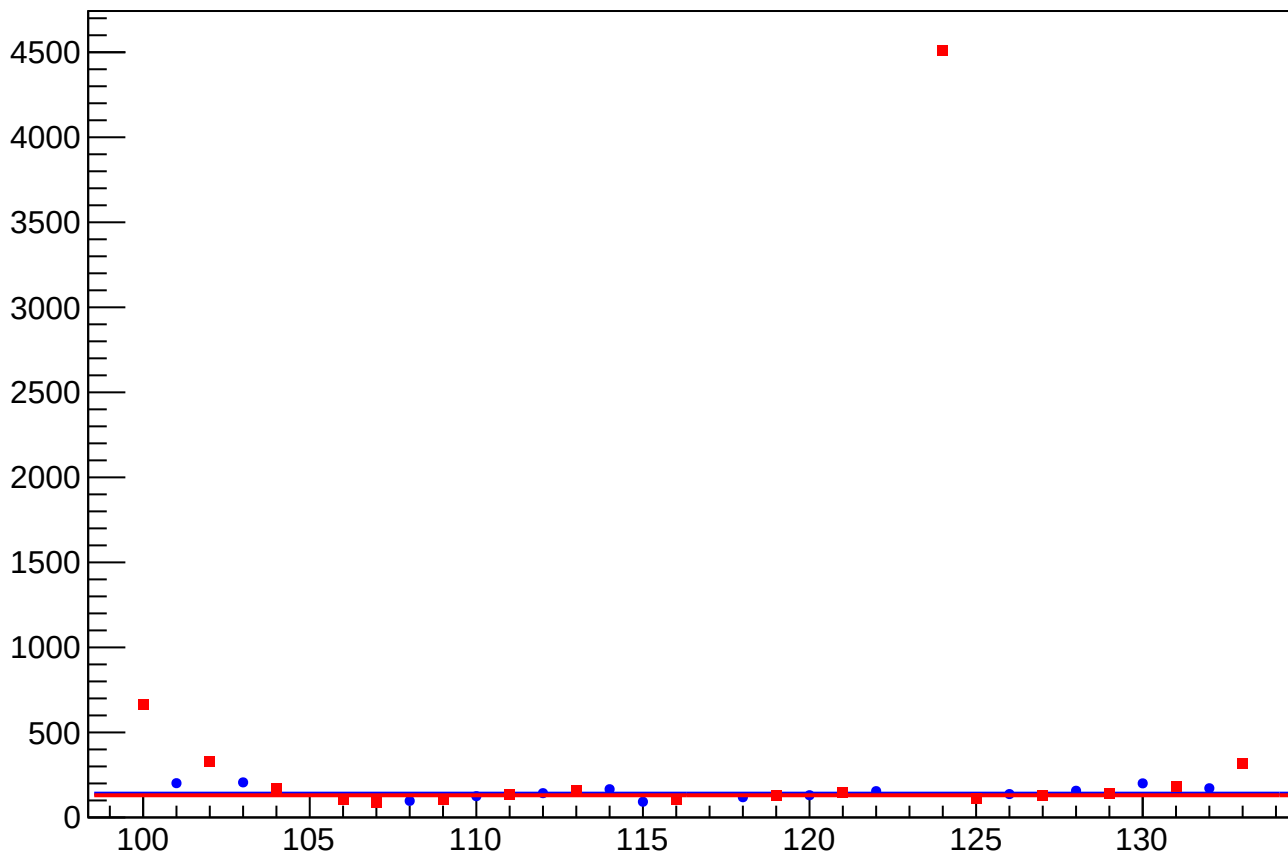
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.027+/-0.041  $\chi^2/\text{NDF}$ : 28.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.902 $\pm$ 0.043  $\chi^2$ /NDF: 637807.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 130.506 $\pm$ 0.039  $\chi^2$ /NDF: 1302037.0/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

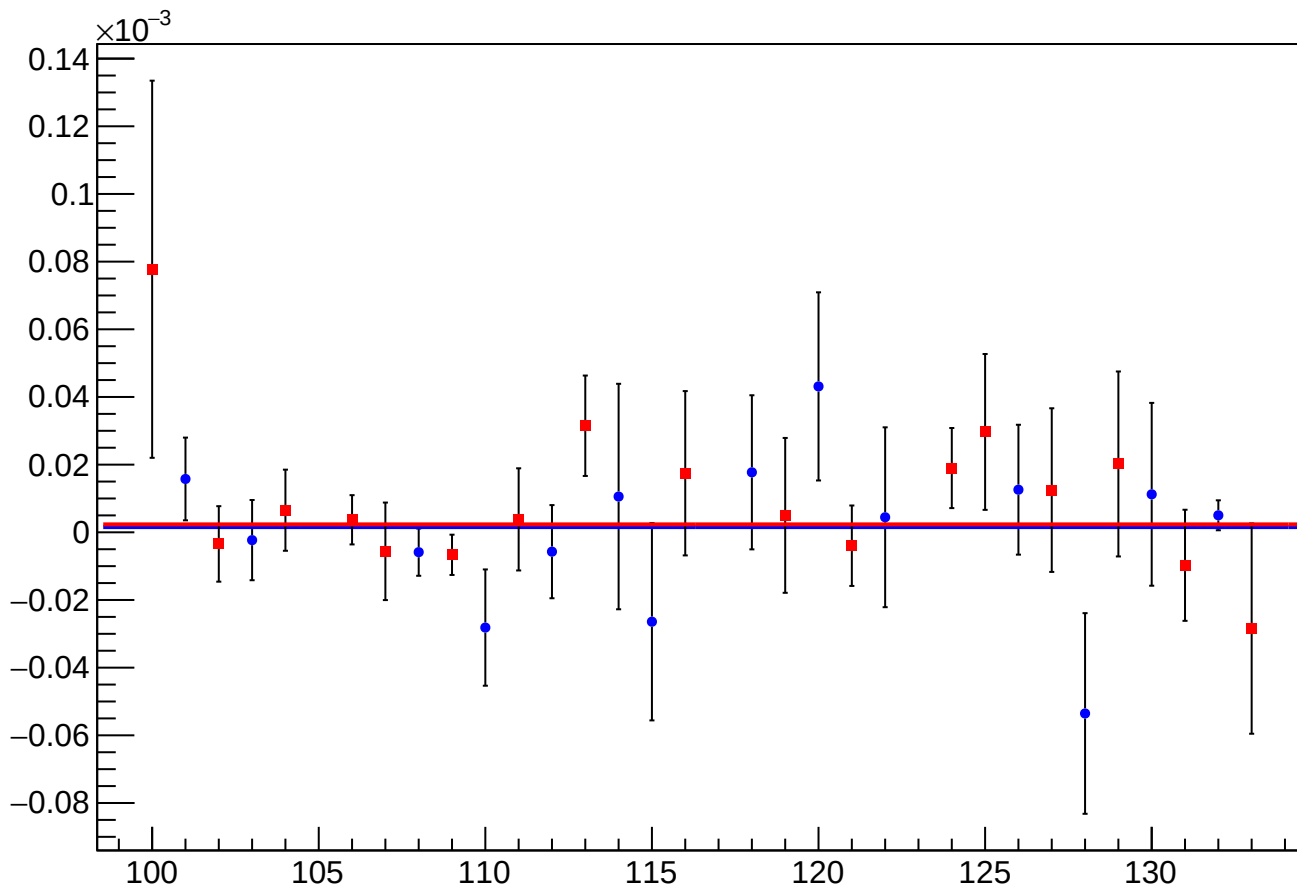
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 134.849 $\pm$ 0.029  $\chi^2$ /NDF: 1966105.3/30

- 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: 14.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.9/16

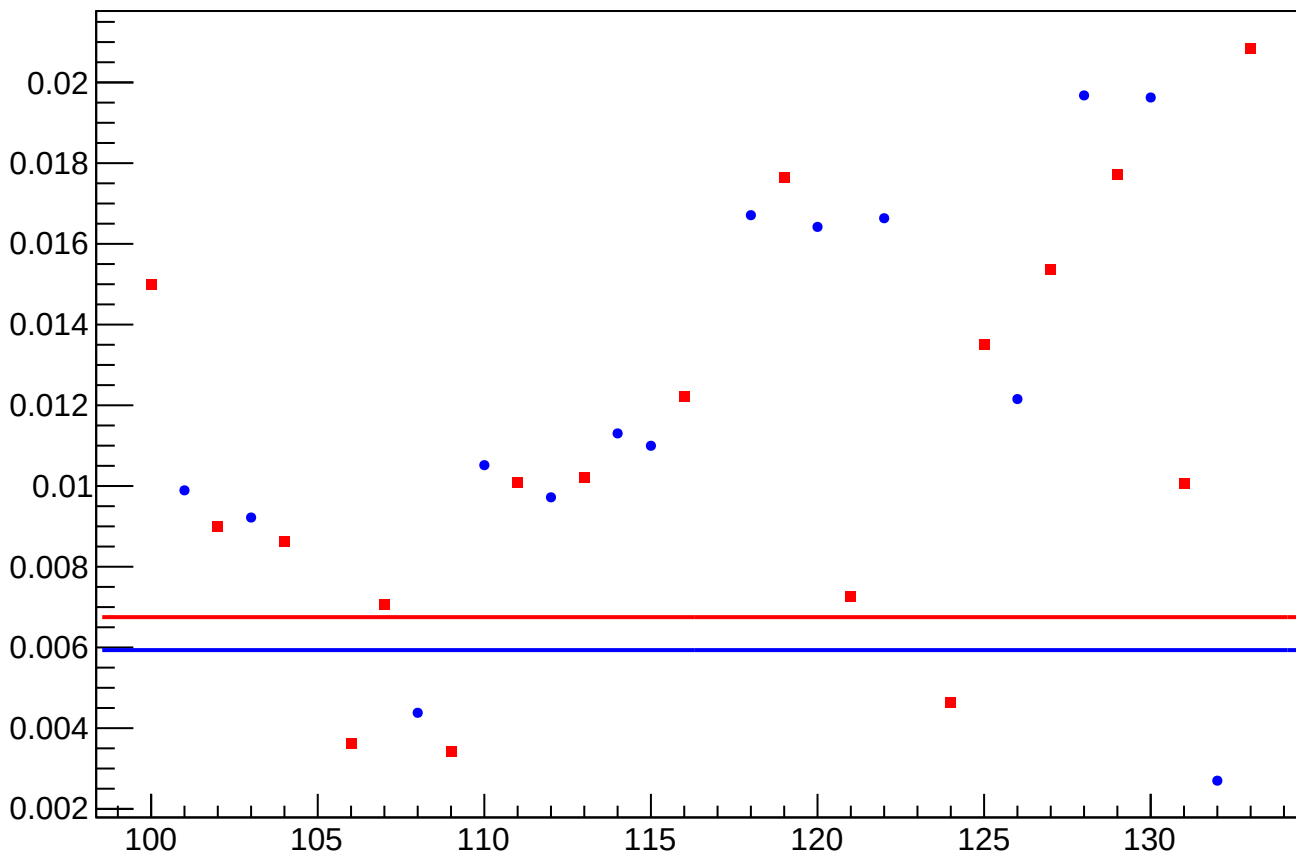
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 29.1/30

- 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: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 4146422.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 3236557.9/16

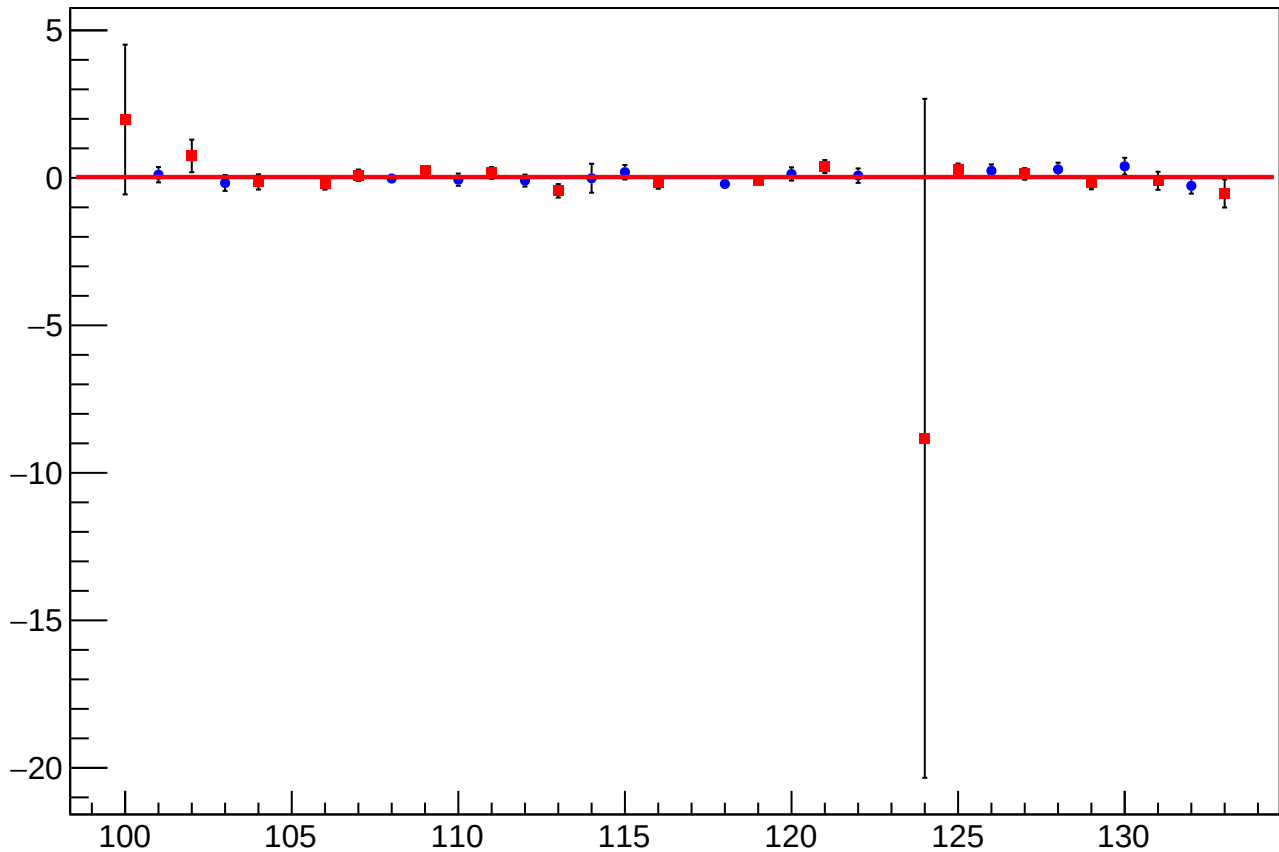
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 7452952.3/30

- 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: 0.019+/-0.060  $\chi^2/\text{NDF}$ : 9.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.034+/-0.056  $\chi^2/\text{NDF}$ : 19.6/16

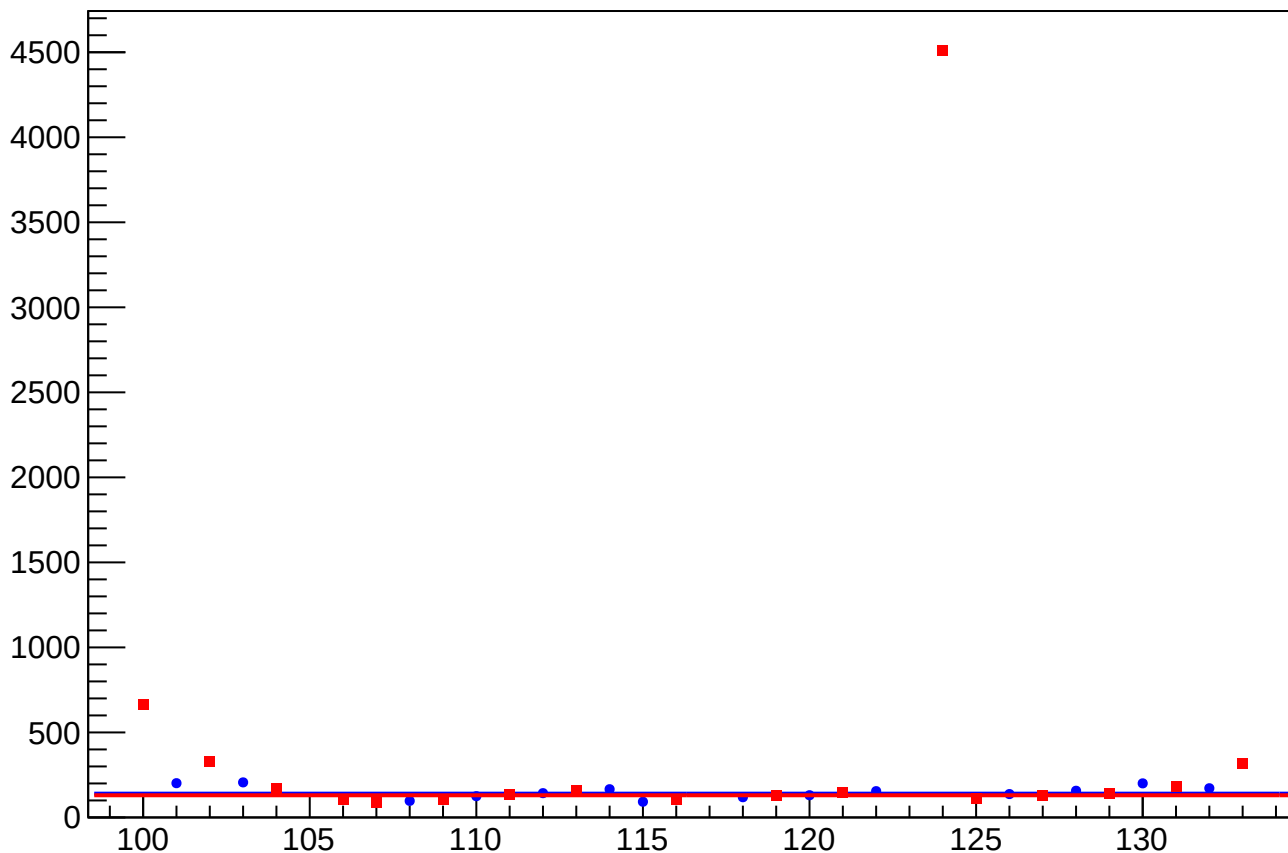
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.027+/-0.041  $\chi^2/\text{NDF}$ : 28.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.902 $\pm$ 0.043  $\chi^2$ /NDF: 637732.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 130.507 $\pm$ 0.039  $\chi^2$ /NDF: 1301957.4/16

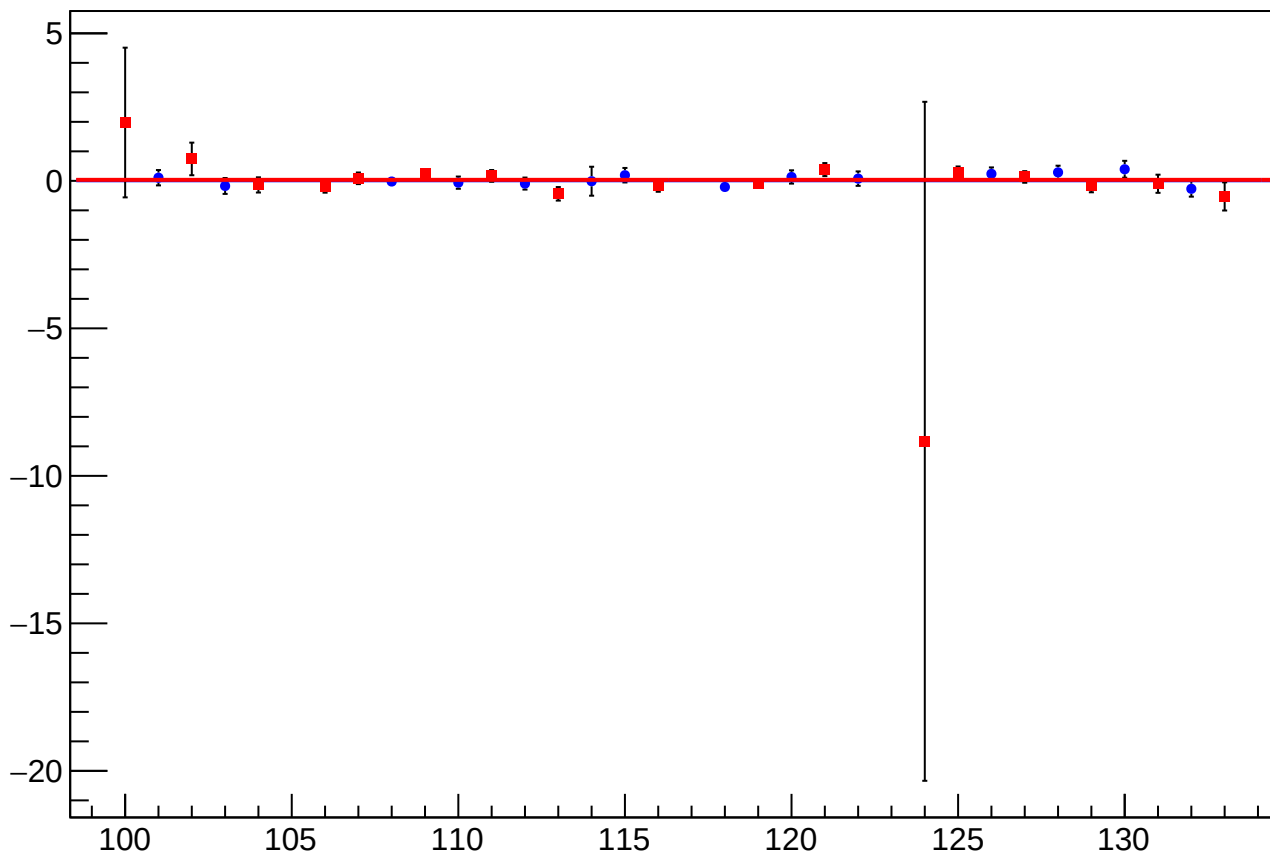
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 134.849 $\pm$ 0.029  $\chi^2$ /NDF: 1965942.5/30

- 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: 0.019 $\pm$ 0.060  $\chi^2$ /NDF: 9.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.034 $\pm$ 0.056  $\chi^2$ /NDF: 19.6/16

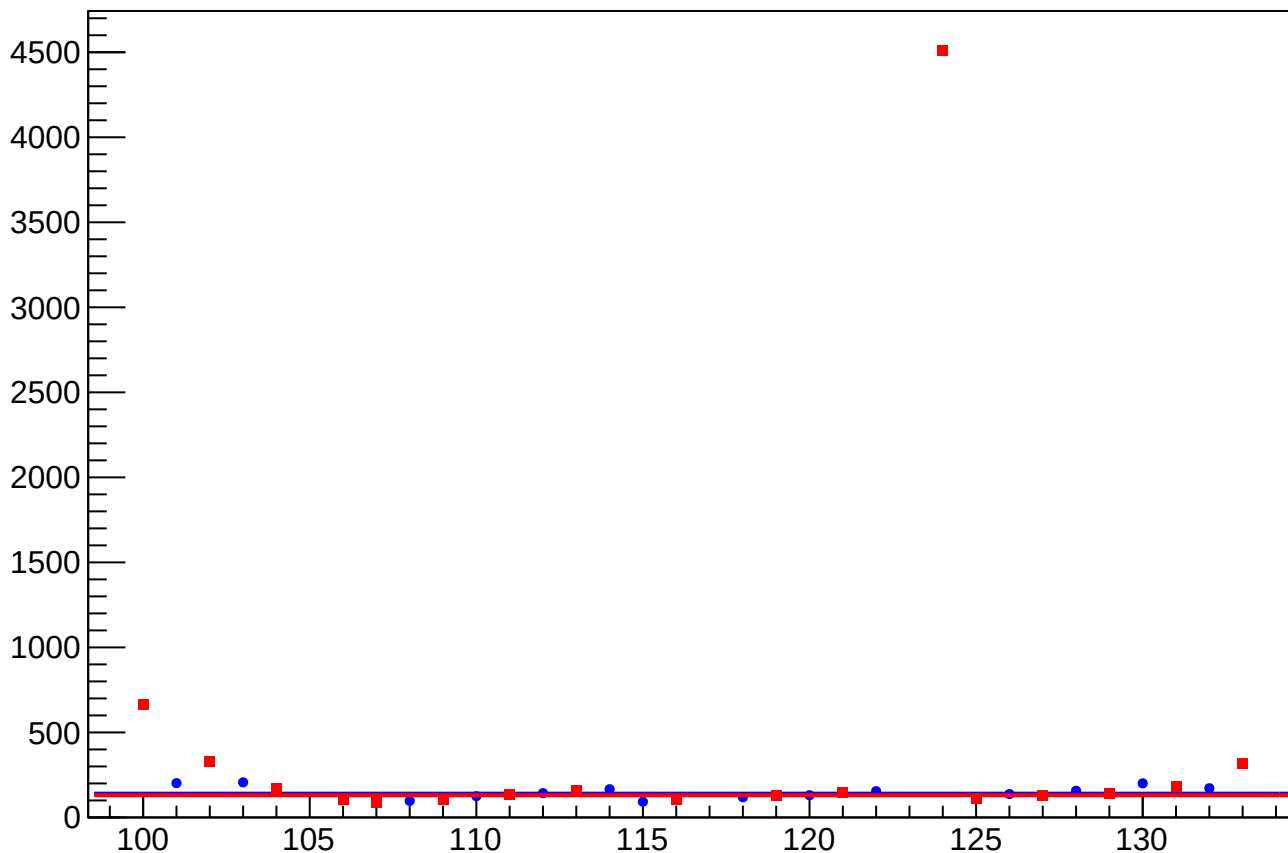
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.041  $\chi^2$ /NDF: 28.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.902 $\pm$ 0.043  $\chi^2$ /NDF: 637732.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 130.507 $\pm$ 0.039  $\chi^2$ /NDF: 1301957.4/16

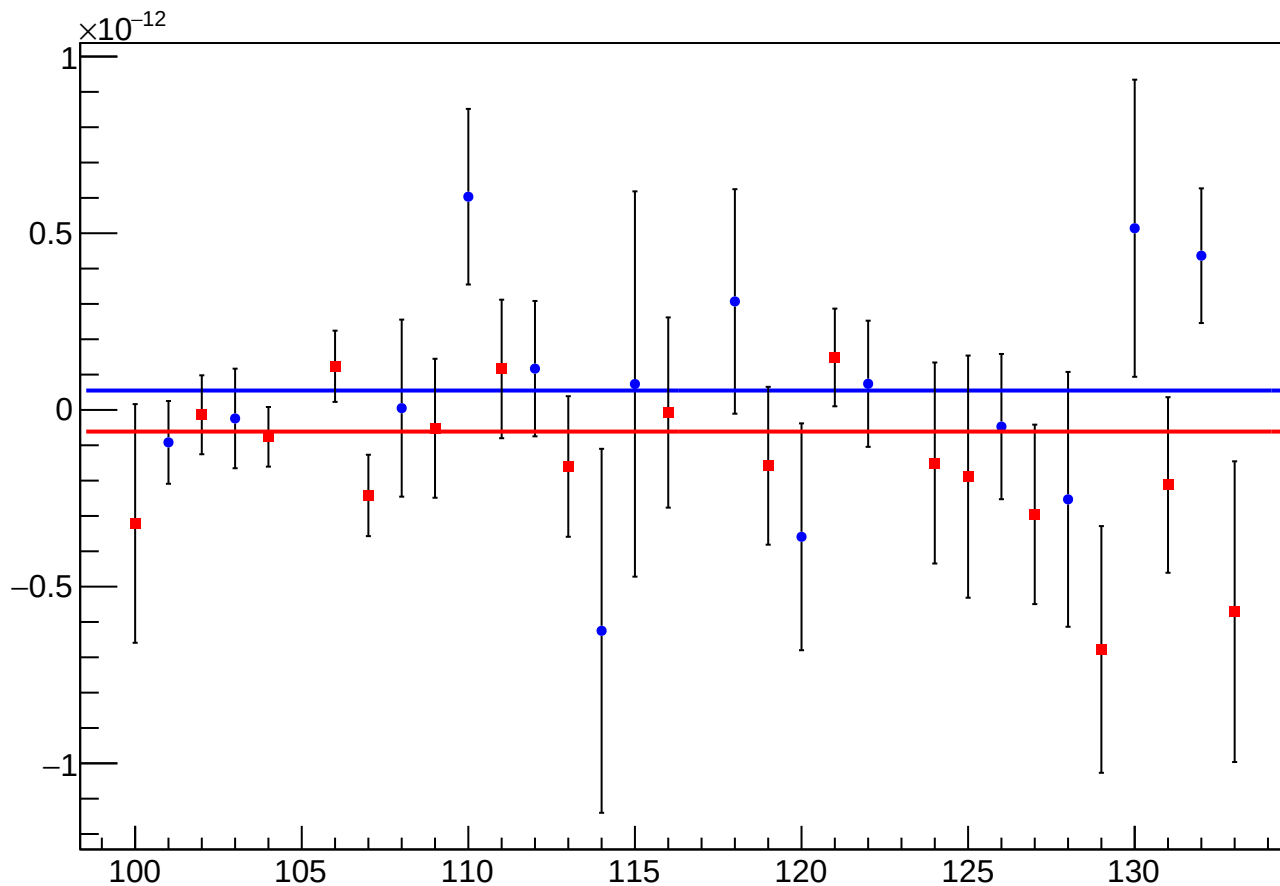
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 134.849 $\pm$ 0.029  $\chi^2$ /NDF: 1965942.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.2/16

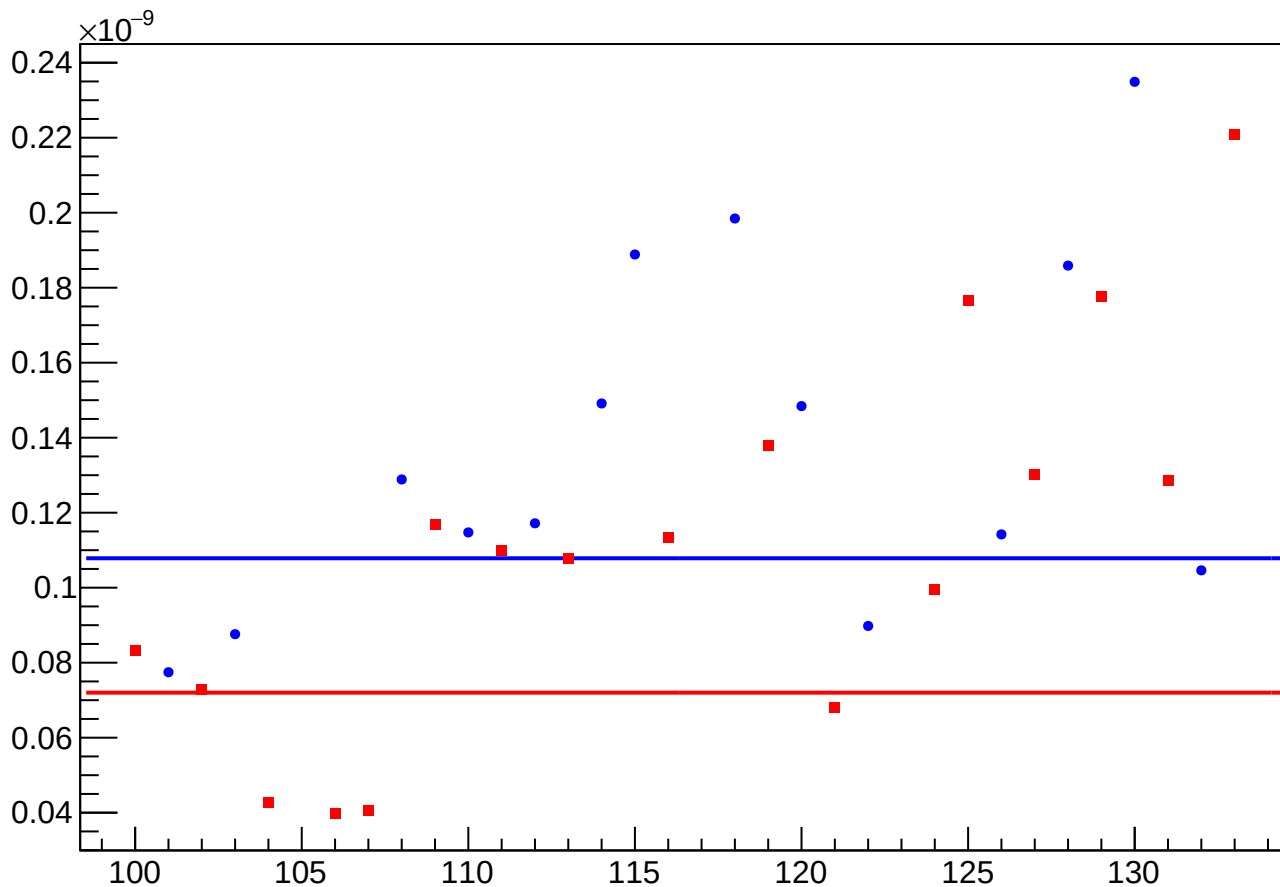
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 36.1/30

- 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  $\chi^2/\text{NDF}$ : 747350.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1902273.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

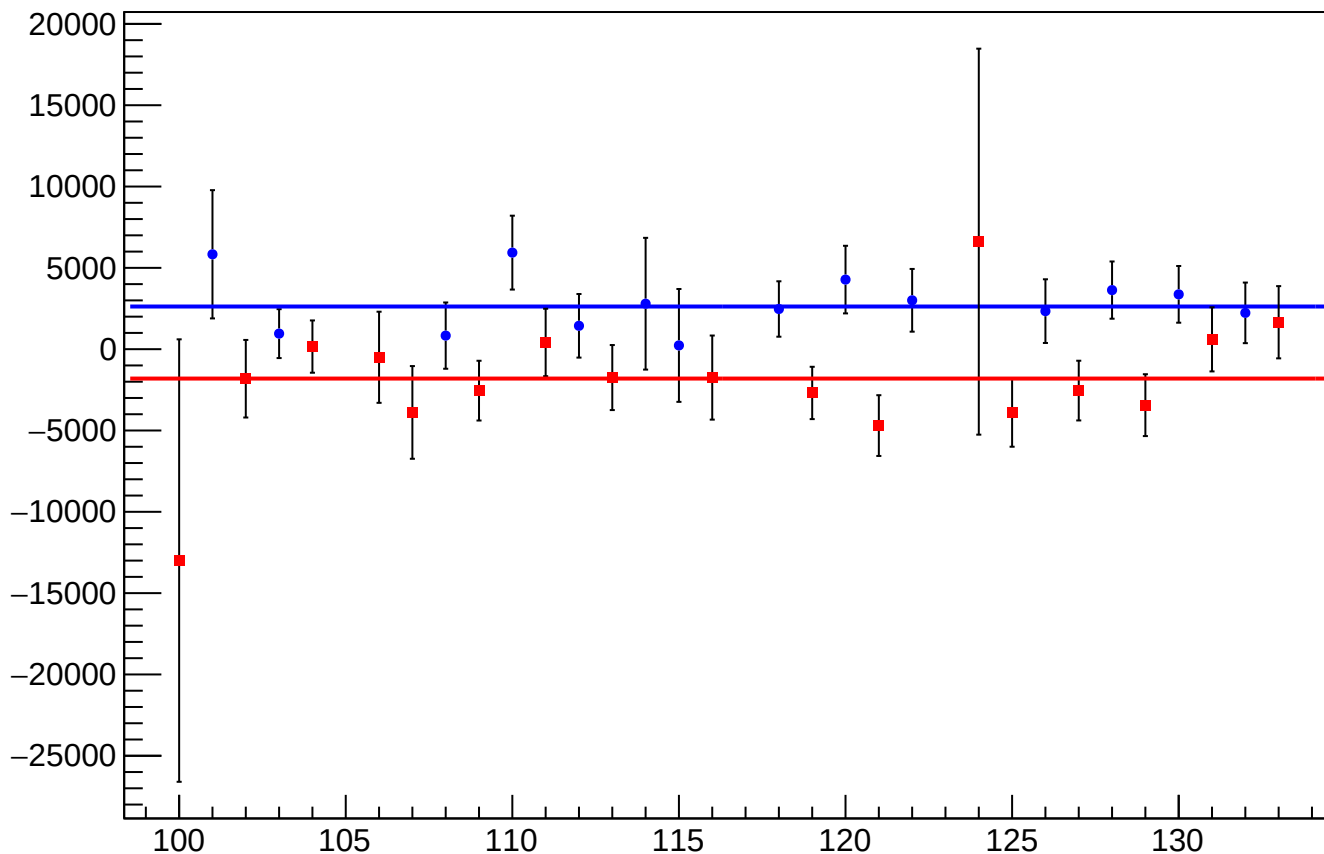
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3178672.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2623.578+/-542.911  $\chi^2$ /NDF: 6.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1806.616+/-520.825  $\chi^2$ /NDF: 13.2/16

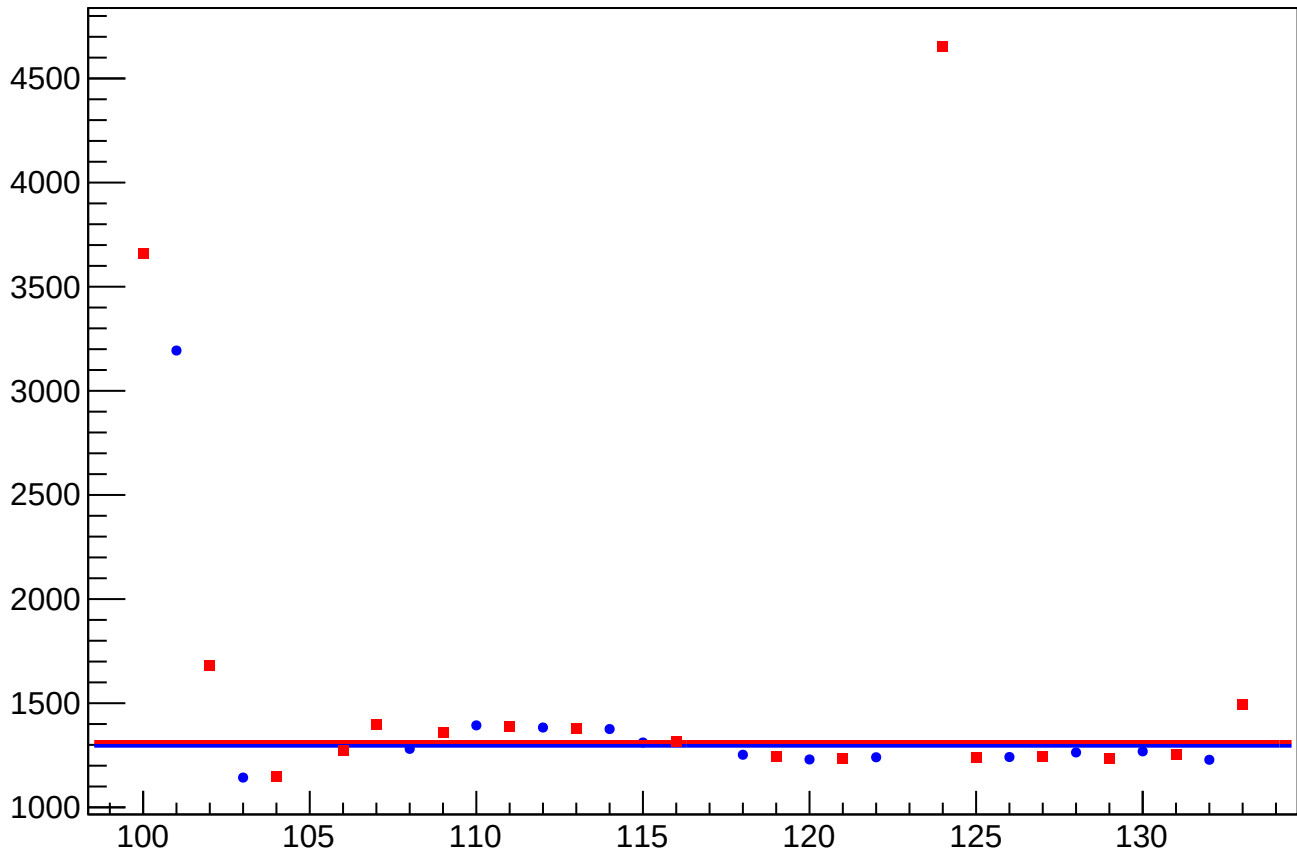
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 316.537+/-375.844  $\chi^2$ /NDF: 54.8/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 1296.072+/-0.384  $\chi^2/\text{NDF}$ : 502759.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1313.759+/-0.367  $\chi^2/\text{NDF}$ : 325903.2/16

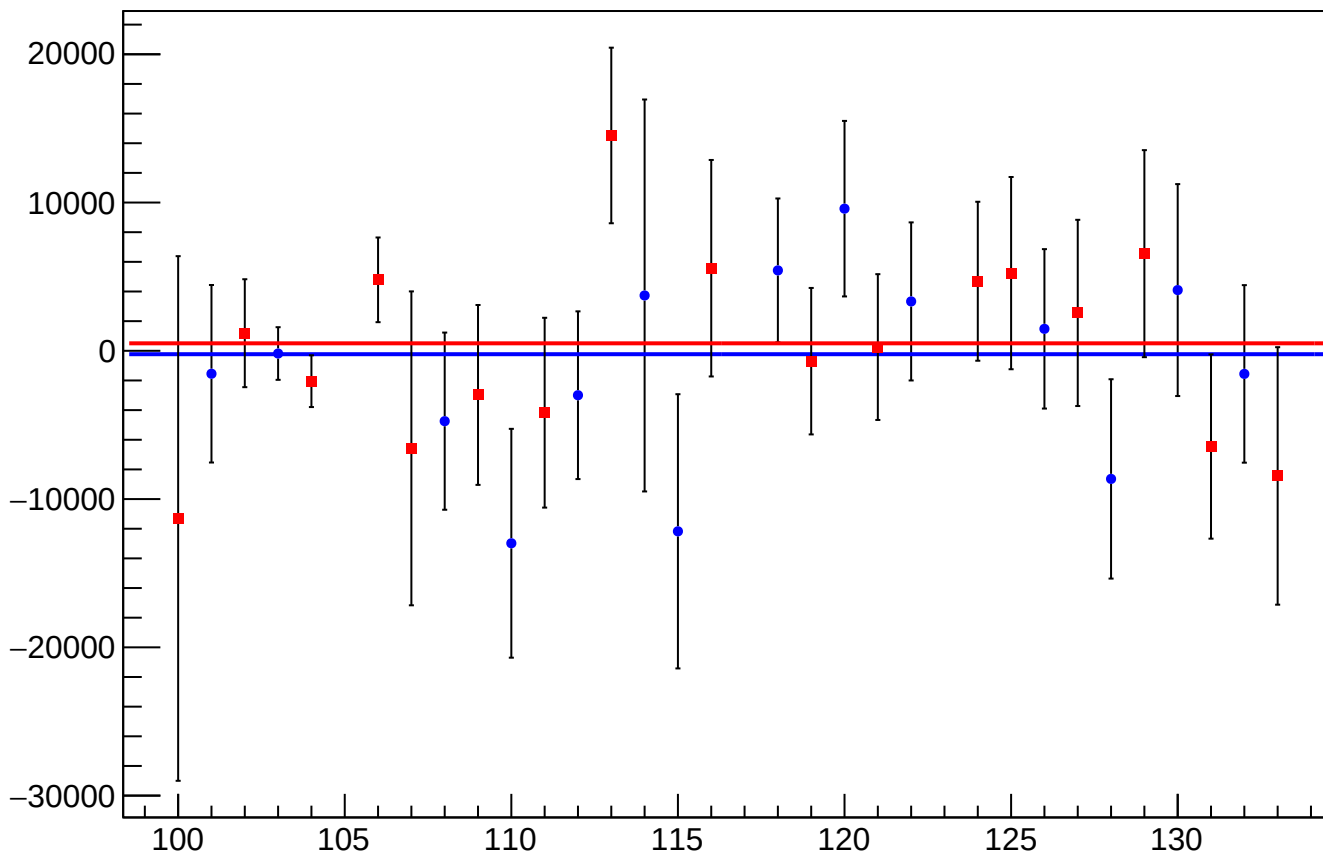
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1305.309+/-0.265  $\chi^2/\text{NDF}$ : 829771.2/30

- 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:  $-228.753 \pm 1241.212$   $\chi^2/\text{NDF}: 12.0/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $505.082 \pm 1076.452$   $\chi^2/\text{NDF}: 16.6/16$

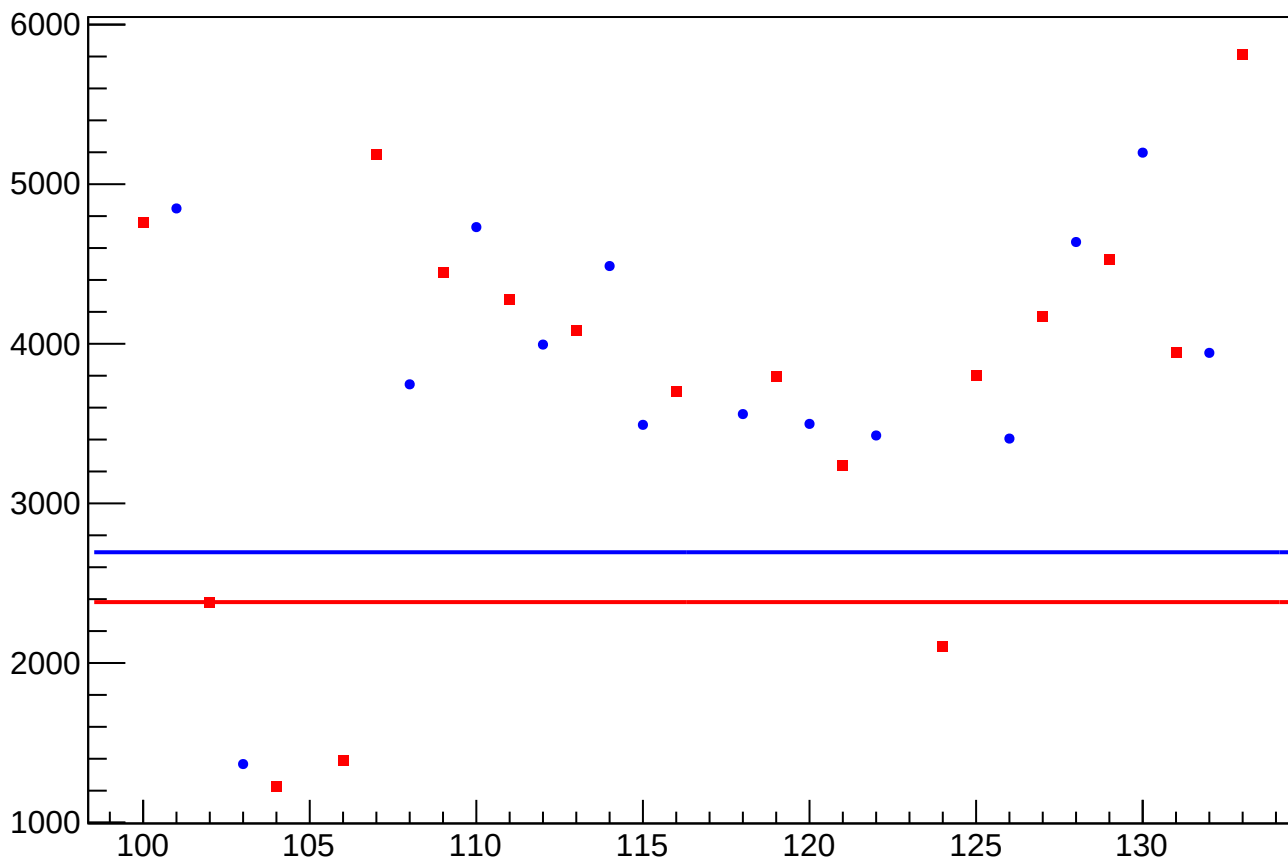
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $190.069 \pm 813.225$   $\chi^2/\text{NDF}: 28.8/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_atl\_avg\_atr\_avg\_avg\_reg\_correction\_rms vs Slug



Right In: 2693.903+/-0.878  $\chi^2/\text{NDF}$ : 2408754.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2381.530+/-0.761  $\chi^2/\text{NDF}$ : 3047974.1/16

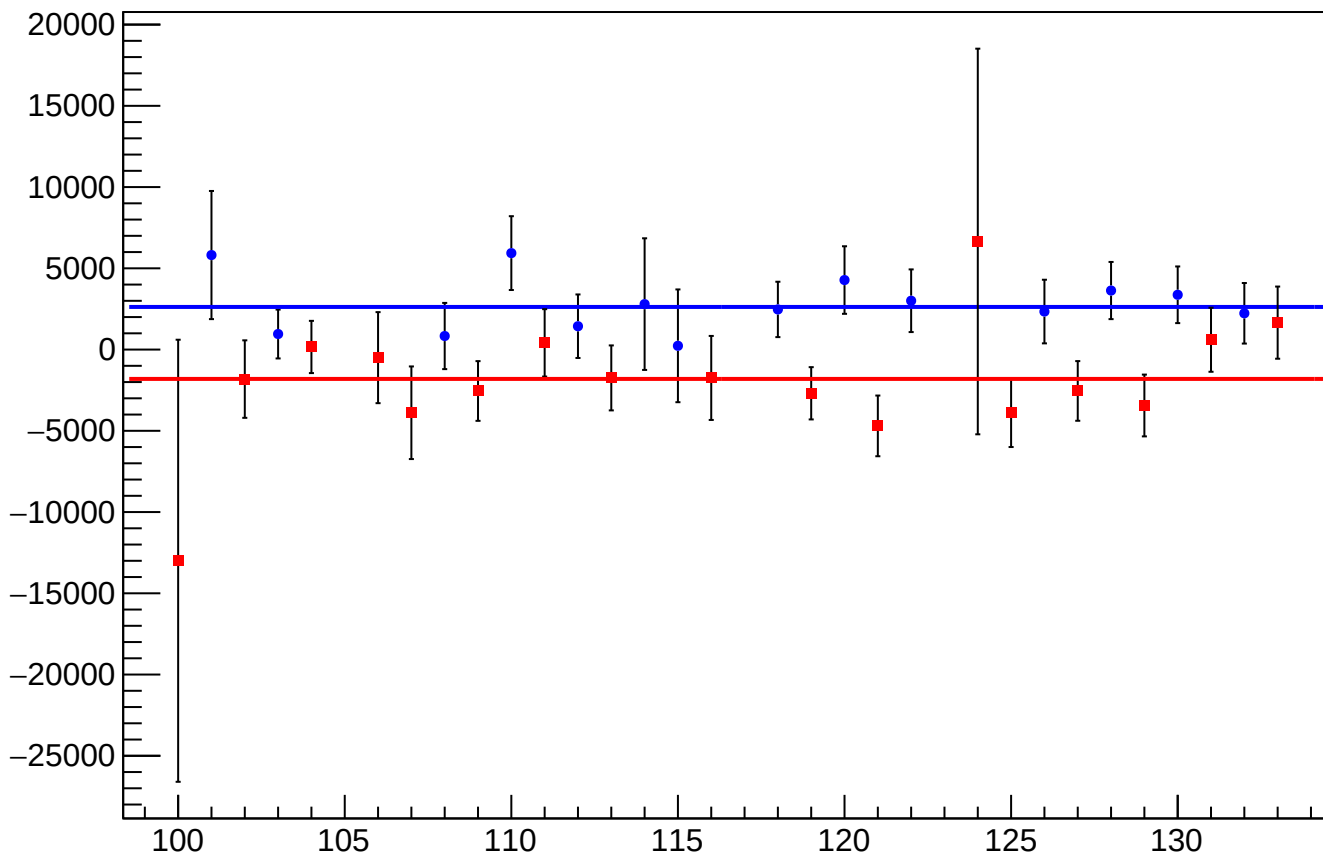
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2515.622+/-0.575  $\chi^2/\text{NDF}$ : 5529025.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2623.271+/-542.911  $\chi^2/\text{NDF}$ : 6.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1806.310+/-520.825  $\chi^2/\text{NDF}$ : 13.3/16

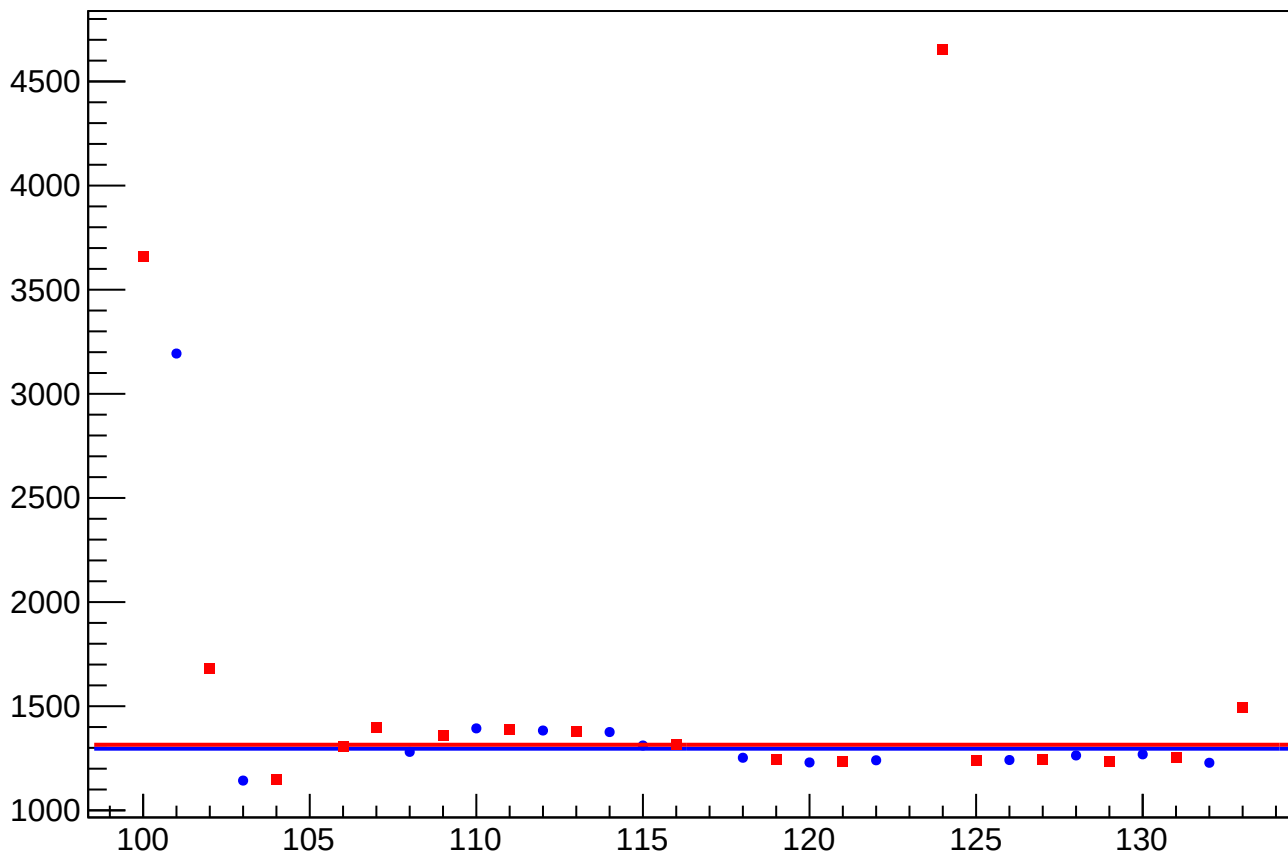
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 316.549+/-375.844  $\chi^2/\text{NDF}$ : 54.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 1296.072 $\pm$ 0.384  $\chi^2$ /NDF: 502760.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1315.006 $\pm$ 0.368  $\chi^2$ /NDF: 325450.3/16

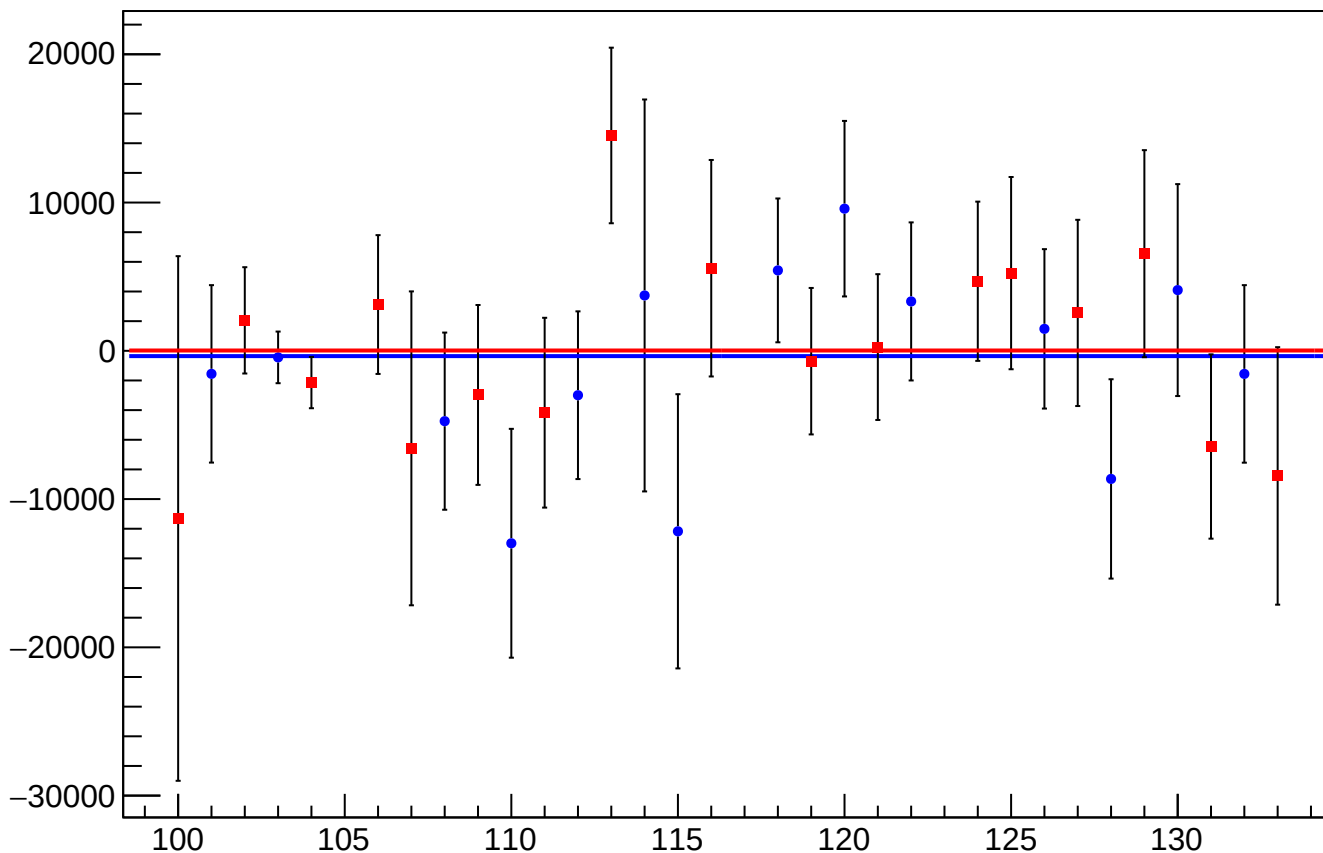
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1305.952 $\pm$ 0.265  $\chi^2$ /NDF: 829480.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_cor\_correction\_mean vs Slug



Right In: -358.049+/-1229.475  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.276+/-1121.944  $\chi^2/\text{NDF}$ : 14.9/16

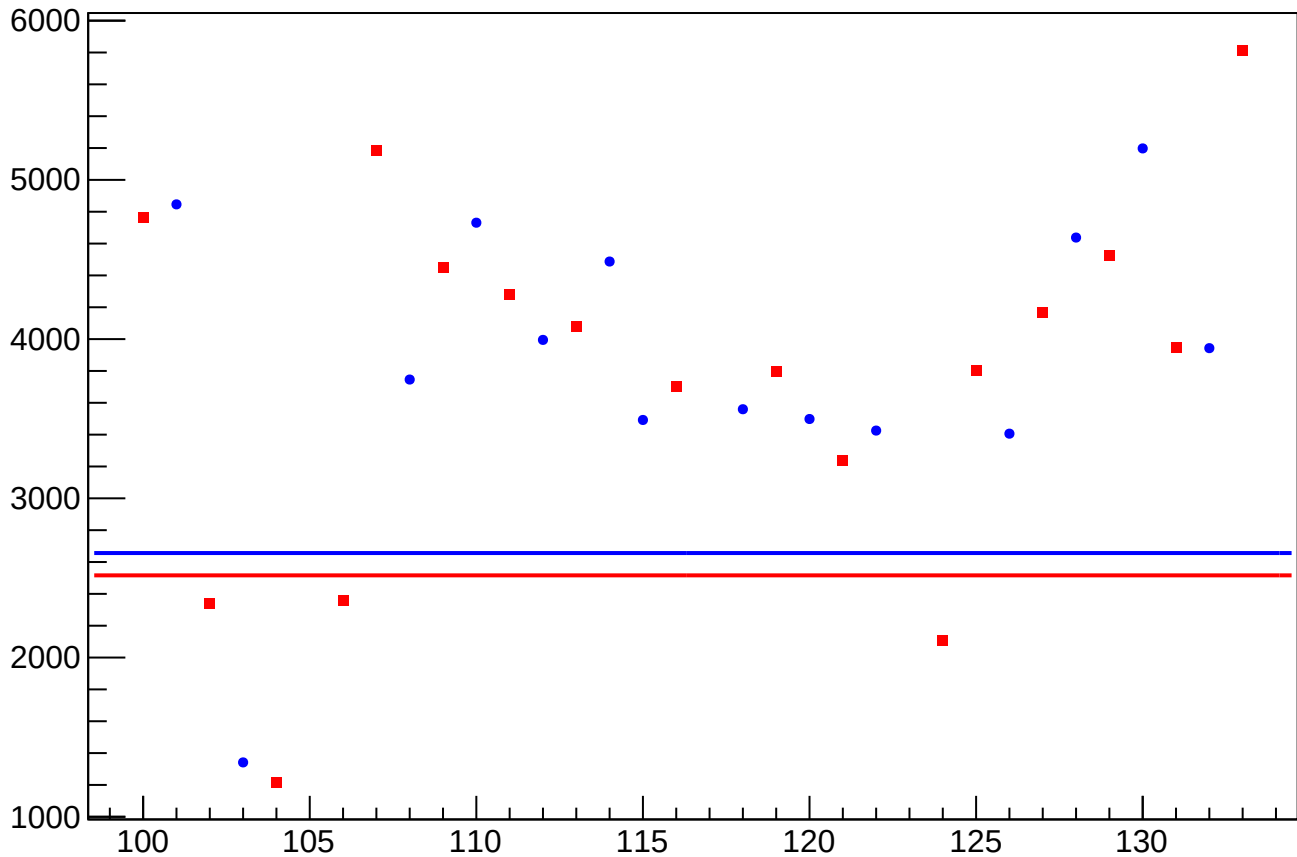
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -151.076+/-828.748  $\chi^2/\text{NDF}$ : 26.9/30

- 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: 2656.362+/-0.869  $\chi^2/\text{NDF}$ : 2495079.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2516.232+/-0.793  $\chi^2/\text{NDF}$ : 2811110.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

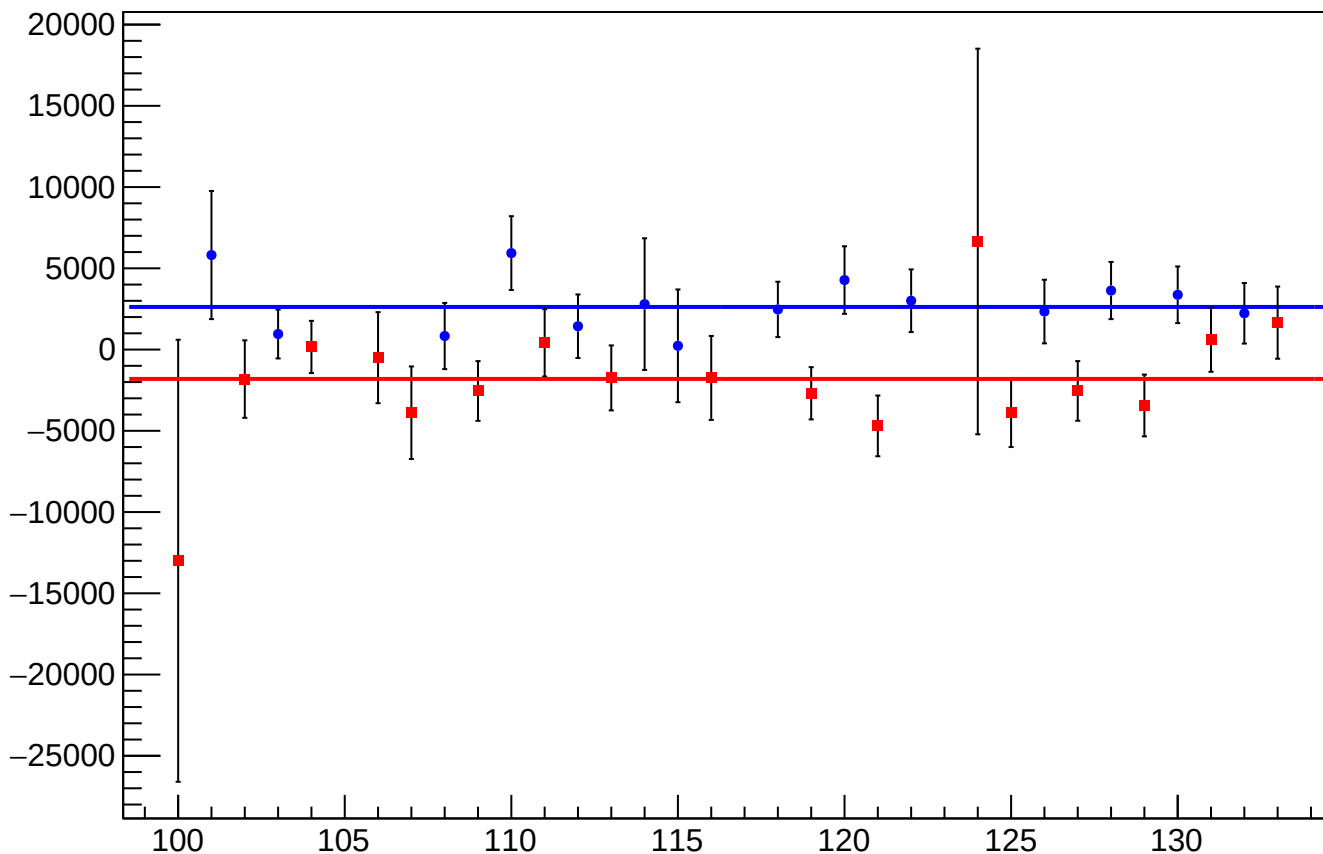
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2579.902+/-0.586  $\chi^2/\text{NDF}$ : 5320366.2/30

- 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: 2623.271 $\pm$ 542.911  $\chi^2$ /NDF: 6.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1806.310 $\pm$ 520.825  $\chi^2$ /NDF: 13.3/16

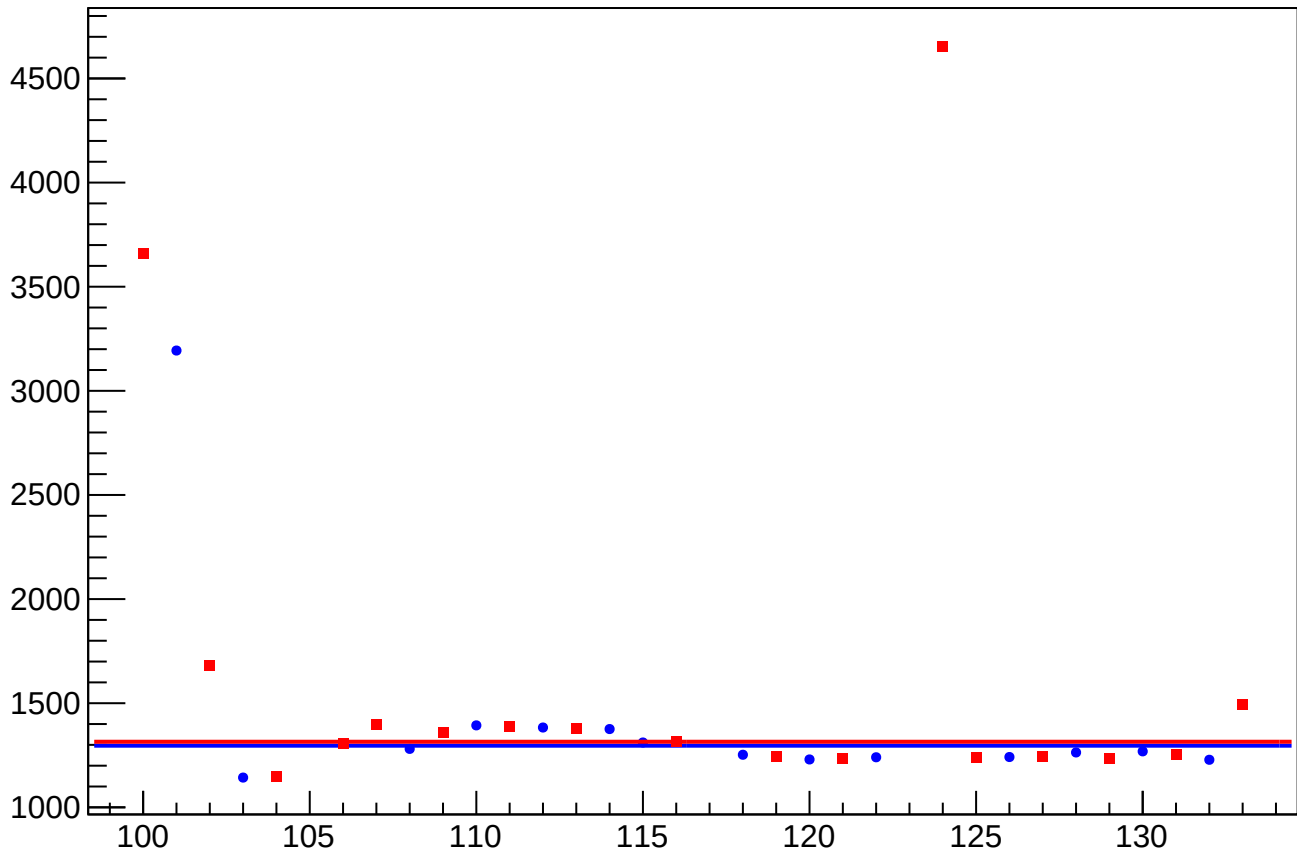
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 316.549 $\pm$ 375.844  $\chi^2$ /NDF: 54.8/30

- 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: 1296.072+/-0.384  $\chi^2/\text{NDF}$ : 502760.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1315.006+/-0.368  $\chi^2/\text{NDF}$ : 325450.3/16

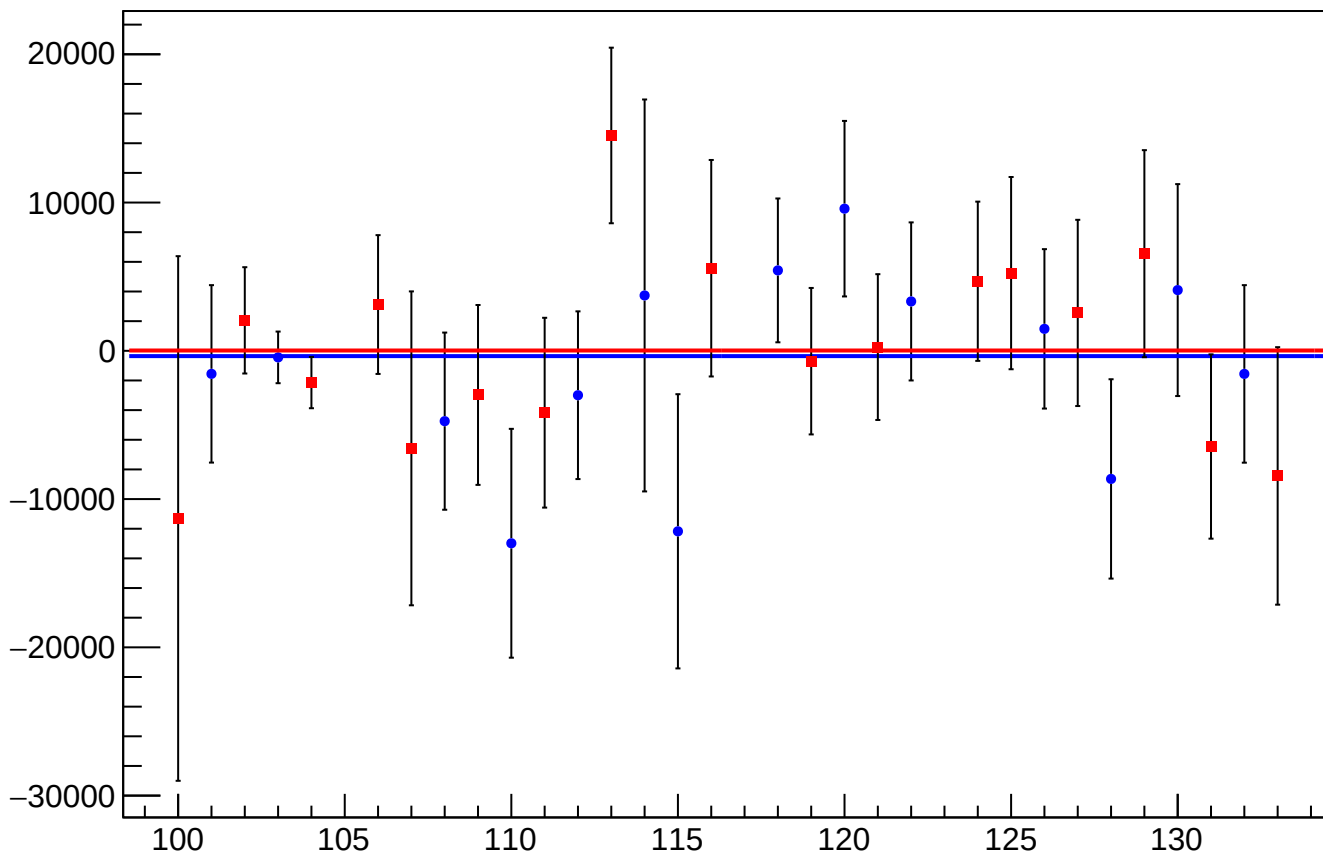
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1305.952+/-0.265  $\chi^2/\text{NDF}$ : 829480.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -358.049+/-1229.475  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.276+/-1121.944  $\chi^2/\text{NDF}$ : 14.9/16

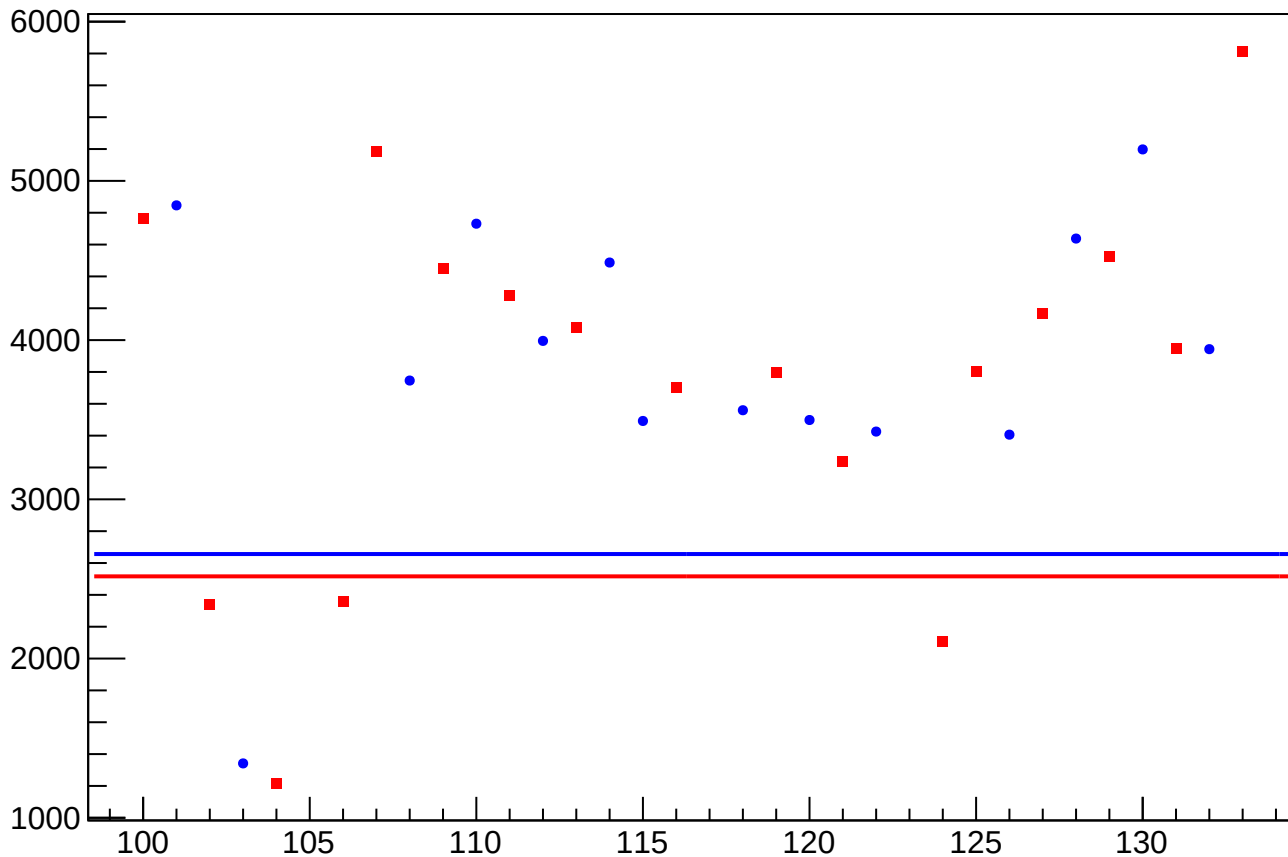
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -151.076+/-828.748  $\chi^2/\text{NDF}$ : 26.9/30

- 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: 2656.362+/-0.869  $\chi^2/\text{NDF}$ : 2495079.3/13

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

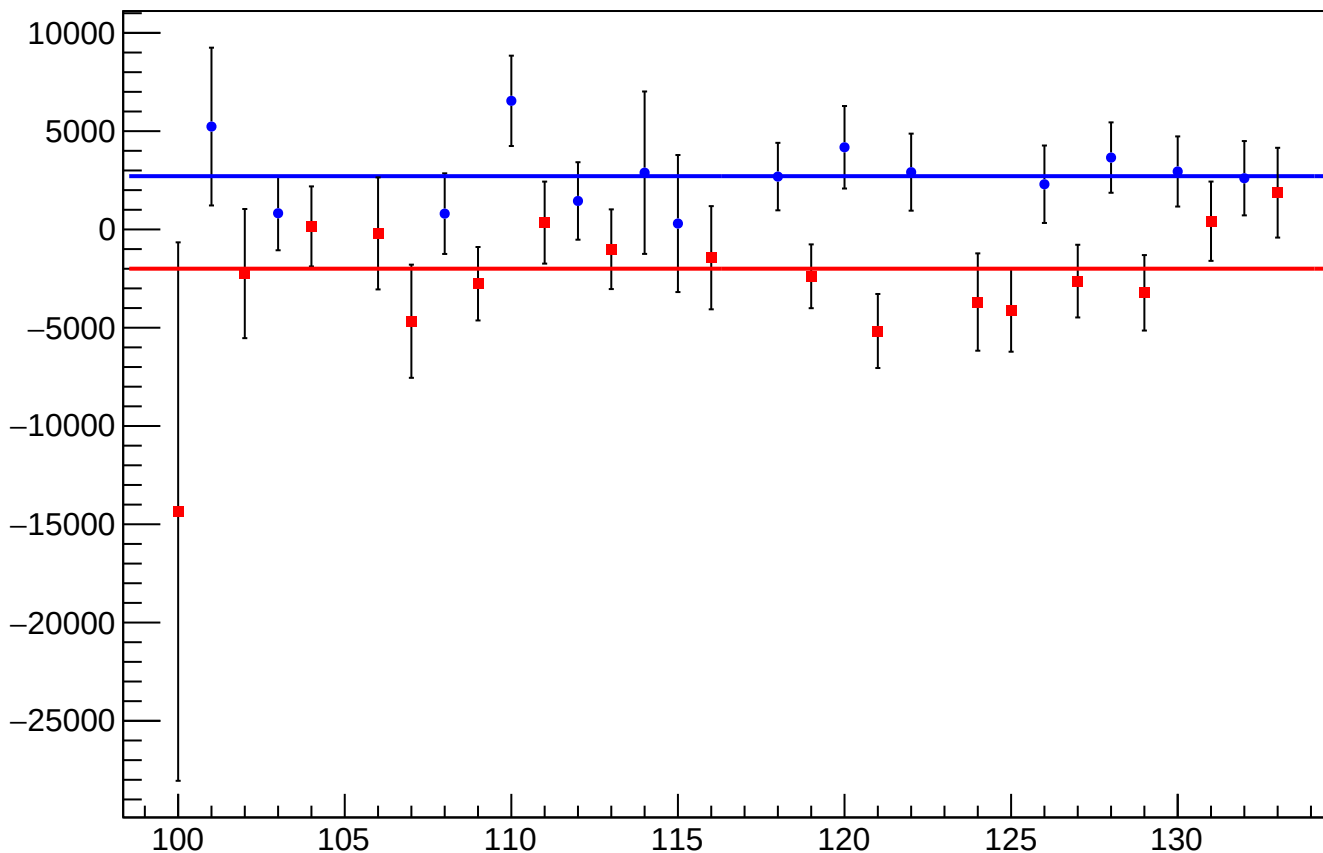
Right Out: 2516.232+/-0.793  $\chi^2/\text{NDF}$ : 2811110.8/16

All: 2579.902+/-0.586  $\chi^2/\text{NDF}$ : 5320366.2/30

- 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\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2710.275 $\pm$ 562.634  $\chi^2$ /NDF: 6.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1996.908 $\pm$ 531.788  $\chi^2$ /NDF: 14.1/16

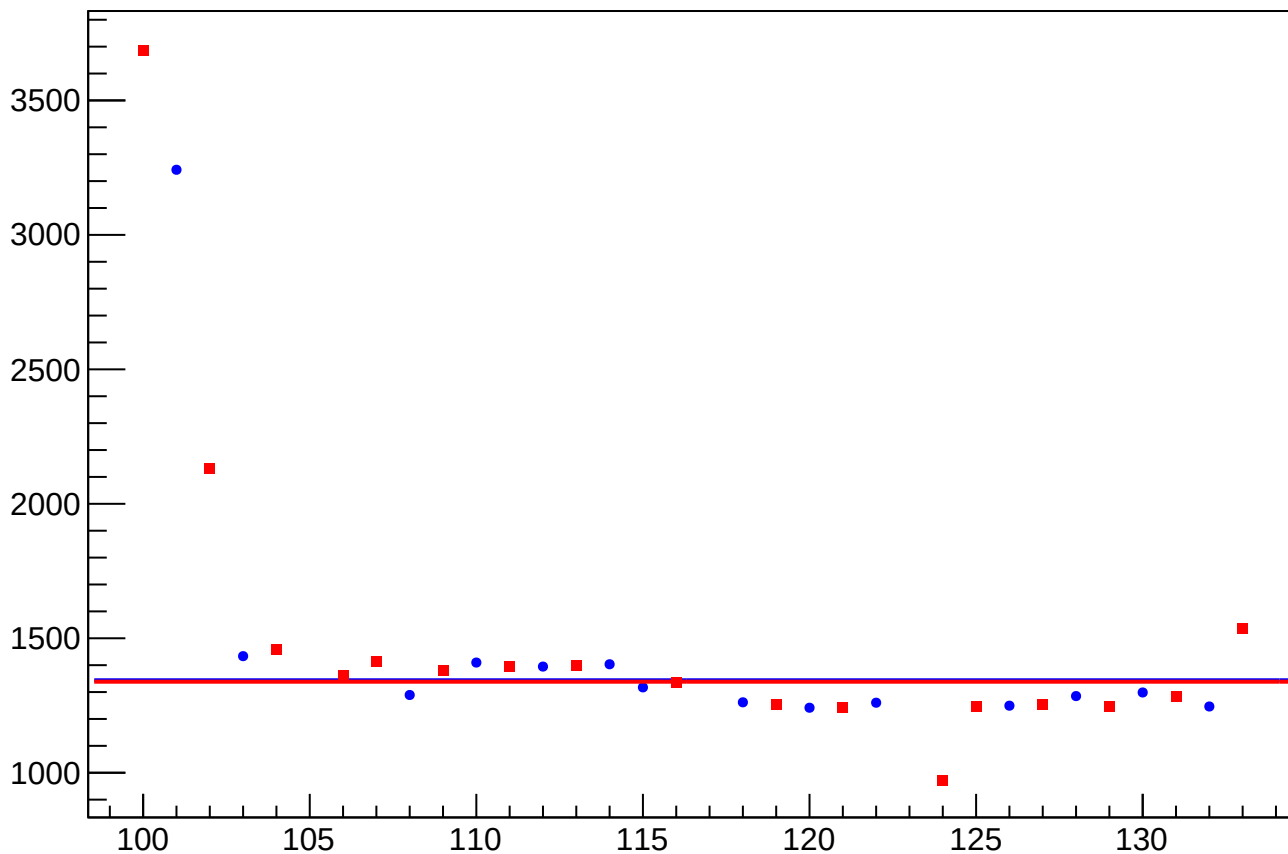
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 224.119 $\pm$ 386.476  $\chi^2$ /NDF: 57.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 1343.868 $\pm$ 0.398  $\chi^2$ /NDF: 483088.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1338.542 $\pm$ 0.376  $\chi^2$ /NDF: 271670.1/16

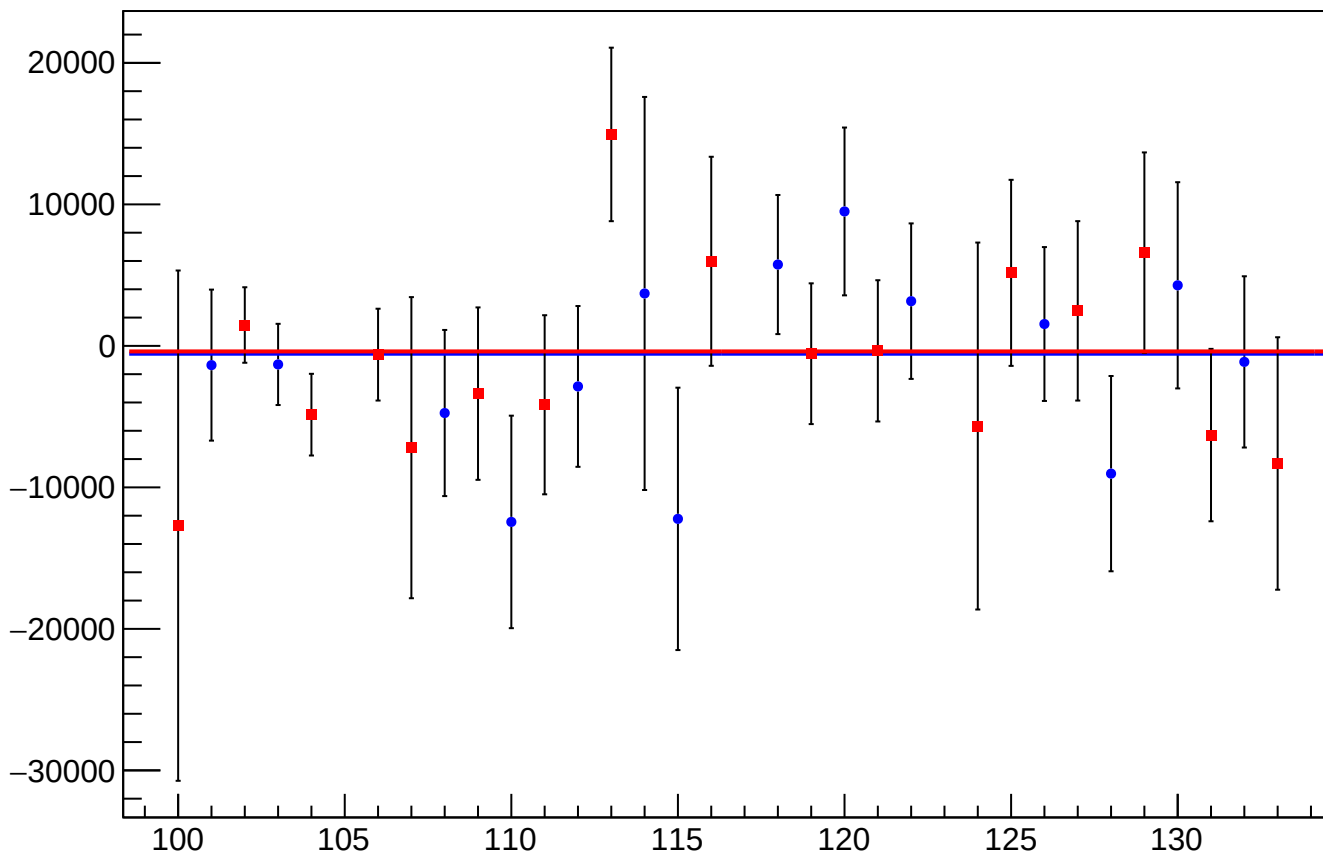
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1341.053 $\pm$ 0.273  $\chi^2$ /NDF: 754853.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_dit\_correction\_mean vs Slug



Right In: -553.553+/-1482.498  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -391.307+/-1232.618  $\chi^2/\text{NDF}$ : 15.1/16

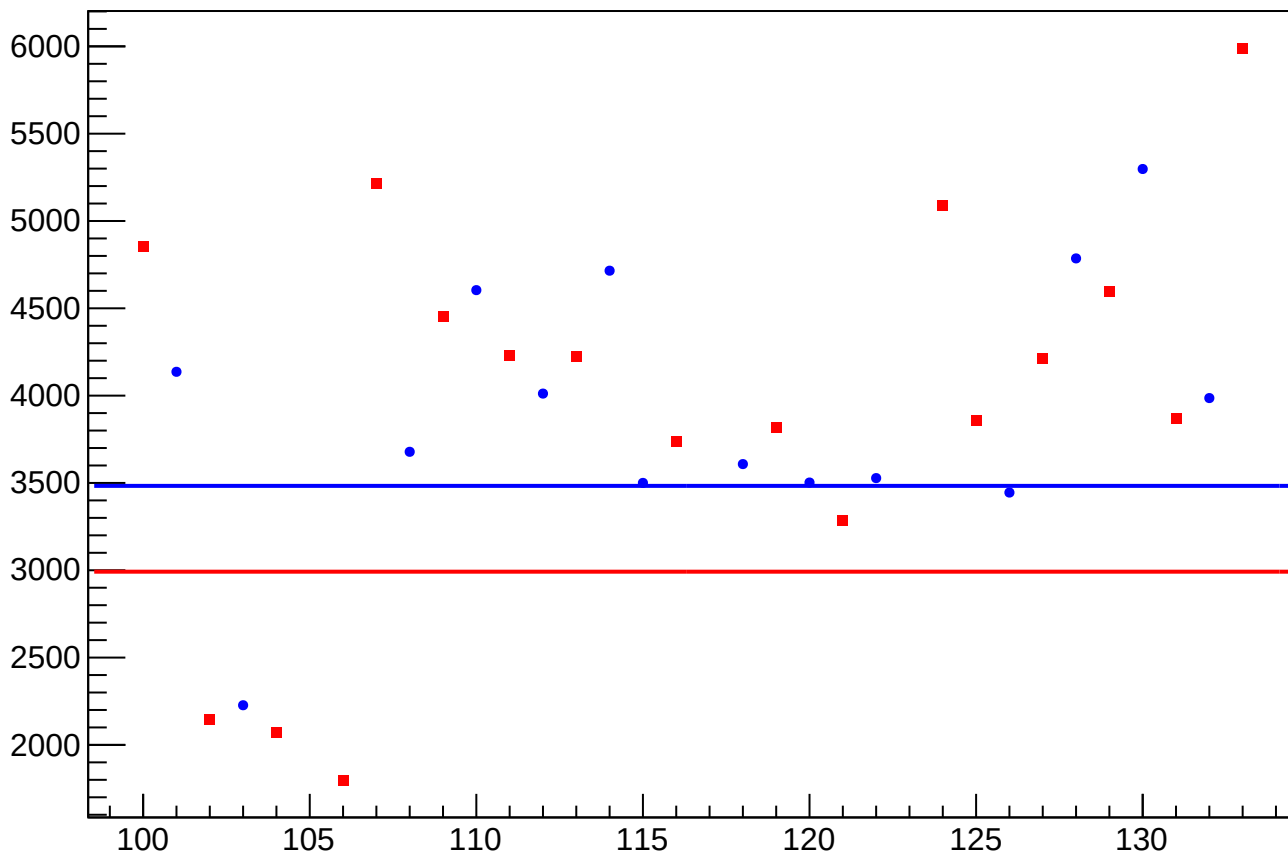
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -457.623+/-947.802  $\chi^2/\text{NDF}$ : 27.2/30

- 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: 3483.246+/-1.048  $\chi^2/\text{NDF}$ : 703680.6/13

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: 2991.888+/-0.872  $\chi^2/\text{NDF}$ : 1670342.4/16

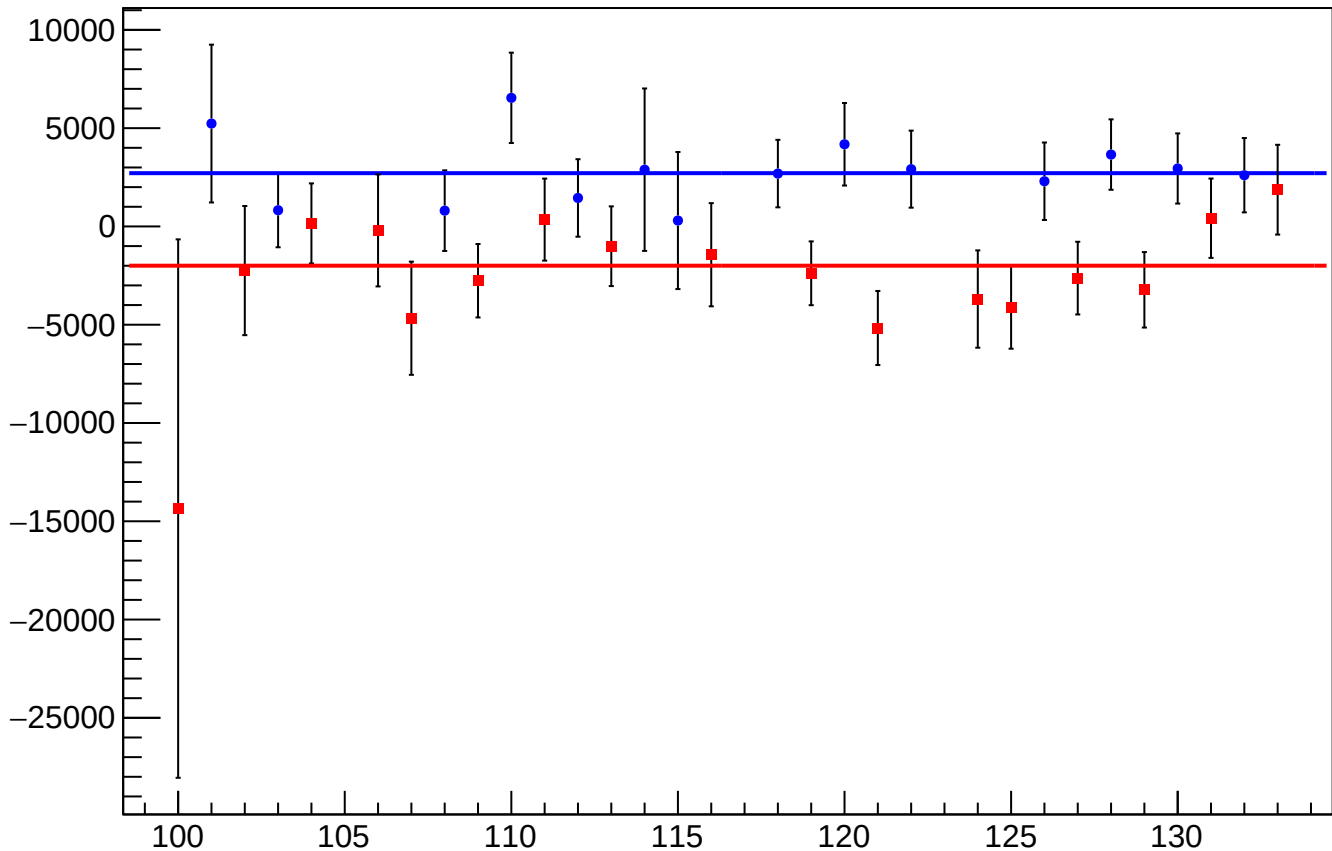
All: 3192.726+/-0.670  $\chi^2/\text{NDF}$ : 2503925.0/30

- 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: 2710.275 $\pm$ 562.633  $\chi^2$ /NDF: 6.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1996.911 $\pm$ 531.788  $\chi^2$ /NDF: 14.1/16

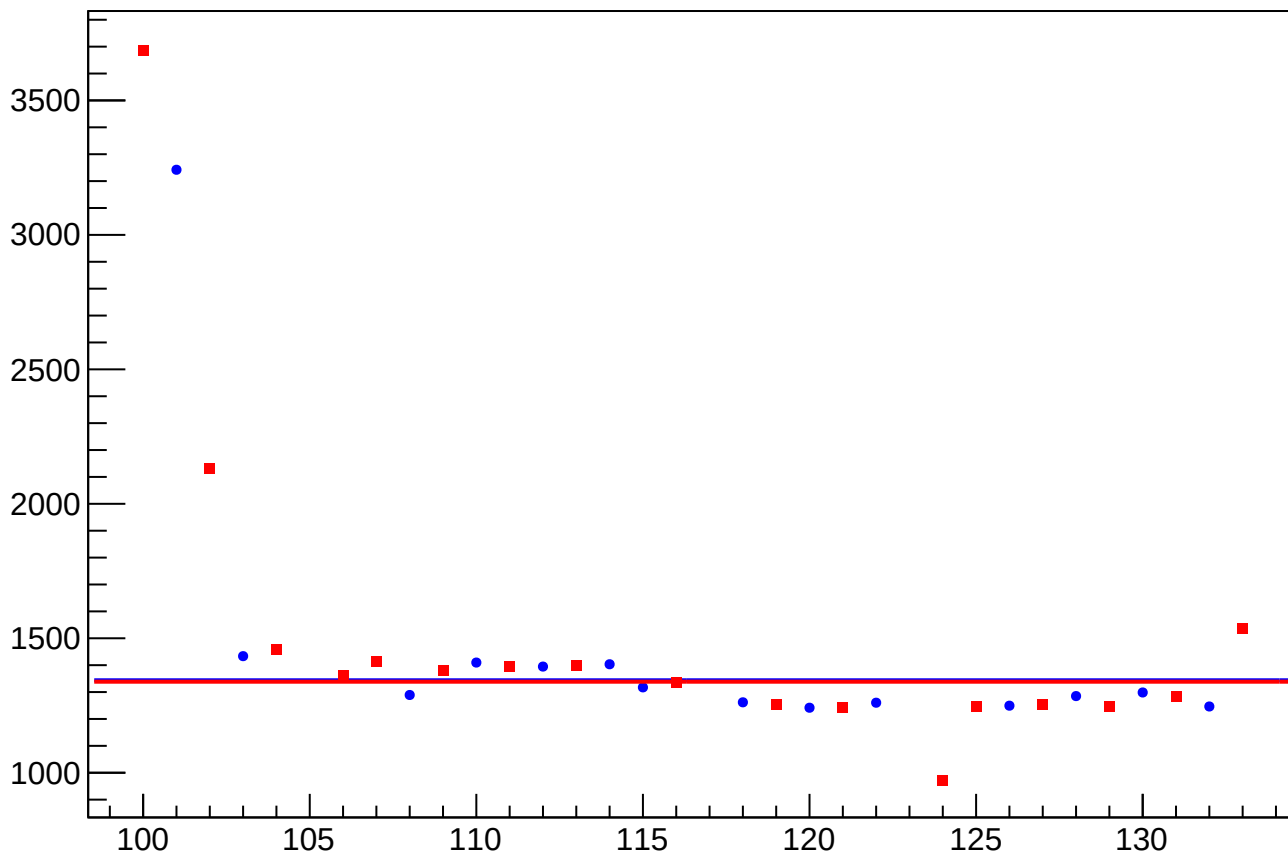
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 224.118 $\pm$ 386.475  $\chi^2$ /NDF: 57.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 1343.868+/-0.398  $\chi^2/\text{NDF}$ : 483088.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1338.541+/-0.376  $\chi^2/\text{NDF}$ : 271669.1/16

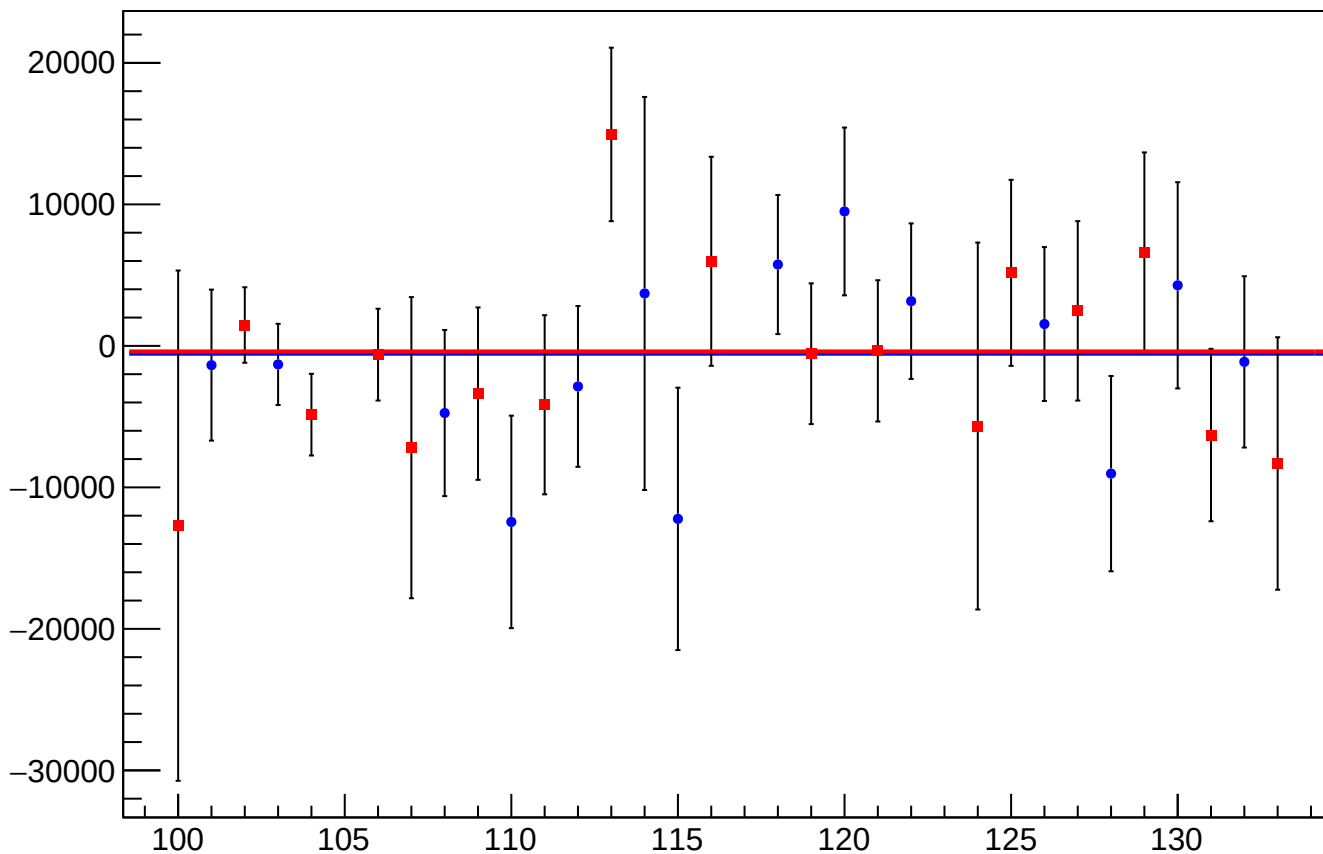
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1341.053+/-0.273  $\chi^2/\text{NDF}$ : 754852.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -553.549+/-1482.494  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -391.308+/-1232.614  $\chi^2/\text{NDF}$ : 15.1/16

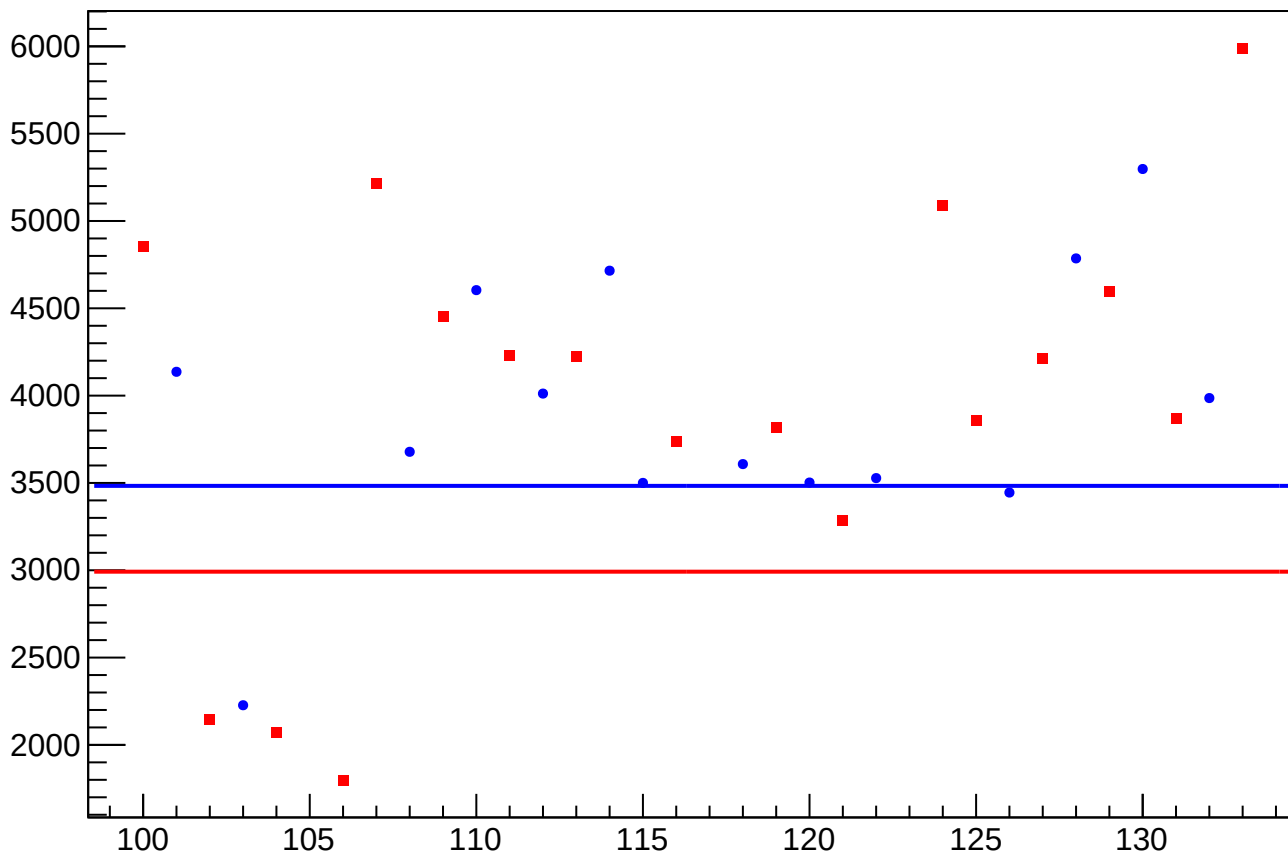
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -457.622+/-947.799  $\chi^2/\text{NDF}$ : 27.2/30

- 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: 3483.236+/-1.048  $\chi^2/\text{NDF}$ : 703678.9/13

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

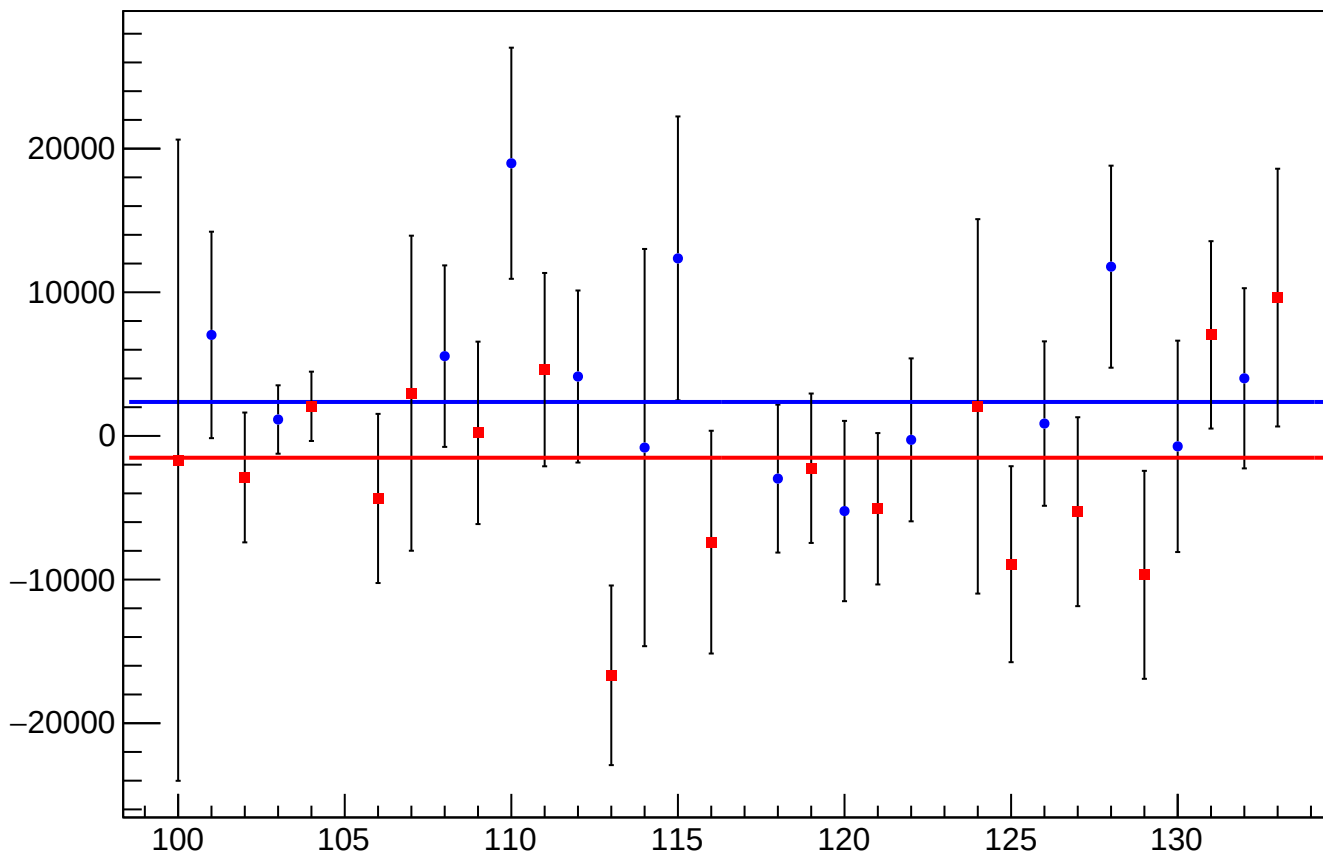
Right Out: 2991.880+/-0.872  $\chi^2/\text{NDF}$ : 1670342.0/16

All: 3192.717+/-0.670  $\chi^2/\text{NDF}$ : 2503923.1/30

- 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: 2364.322 $\pm$ 1461.173  $\chi^2$ /NDF: 11.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1518.134 $\pm$ 1376.881  $\chi^2$ /NDF: 16.6/16

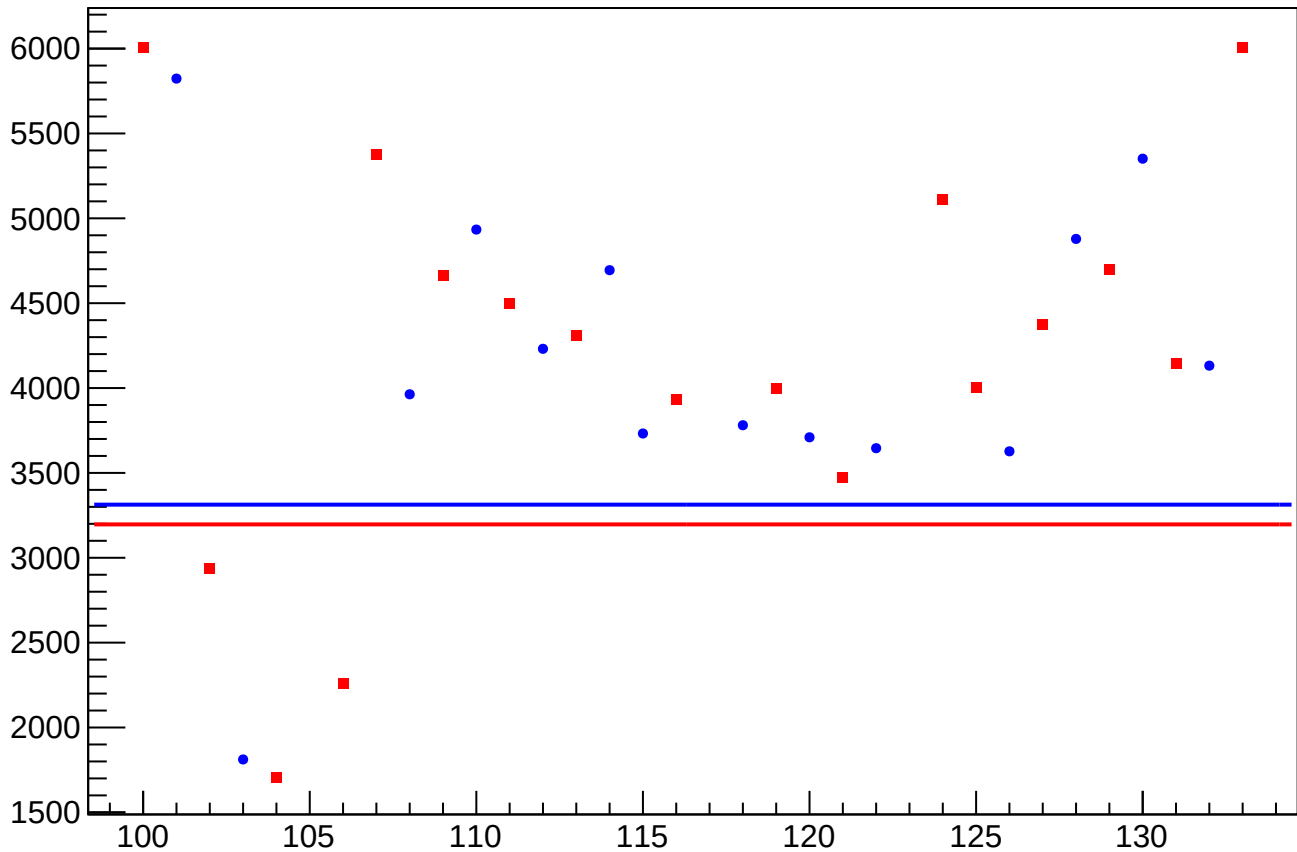
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 307.884 $\pm$ 1002.076  $\chi^2$ /NDF: 31.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 3313.099+/-1.033  $\chi^2/\text{NDF}$ : 1536005.6/13

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

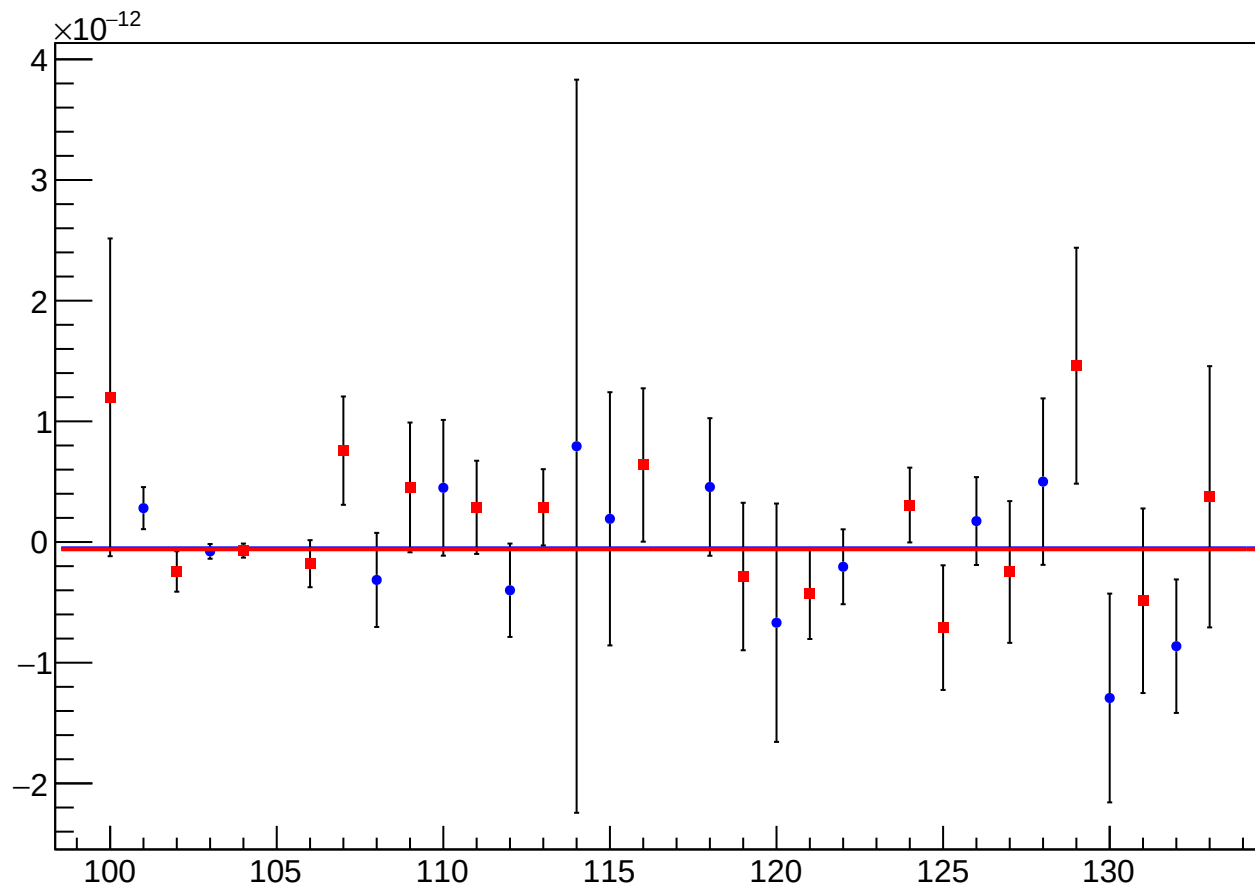
Right Out: 3196.680+/-0.960  $\chi^2/\text{NDF}$ : 1734786.5/16

All: 3250.590+/-0.703  $\chi^2/\text{NDF}$ : 3277609.2/30

- 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\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.1/16

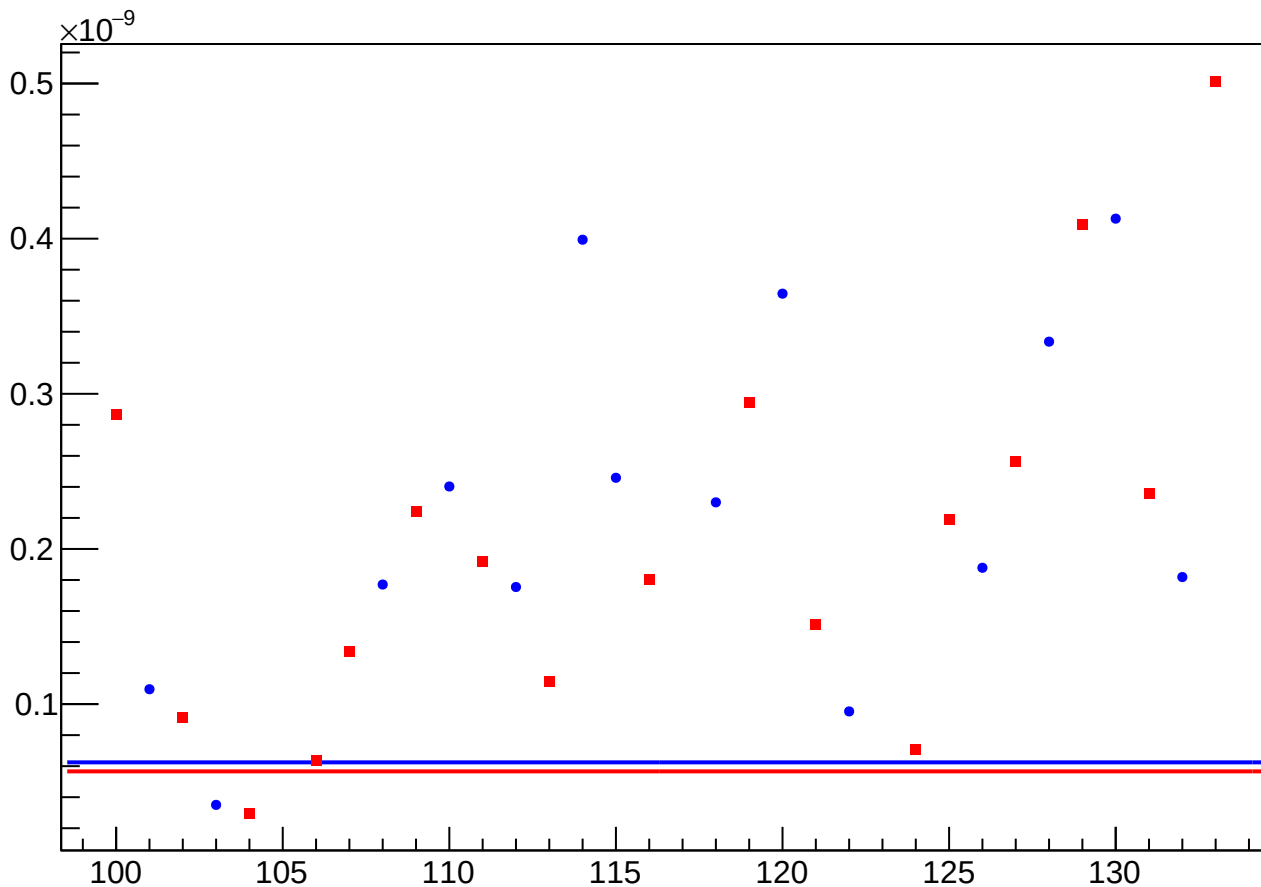
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 29.8/30

- 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  $\chi^2/\text{NDF}$ : 2529149.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2803800.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

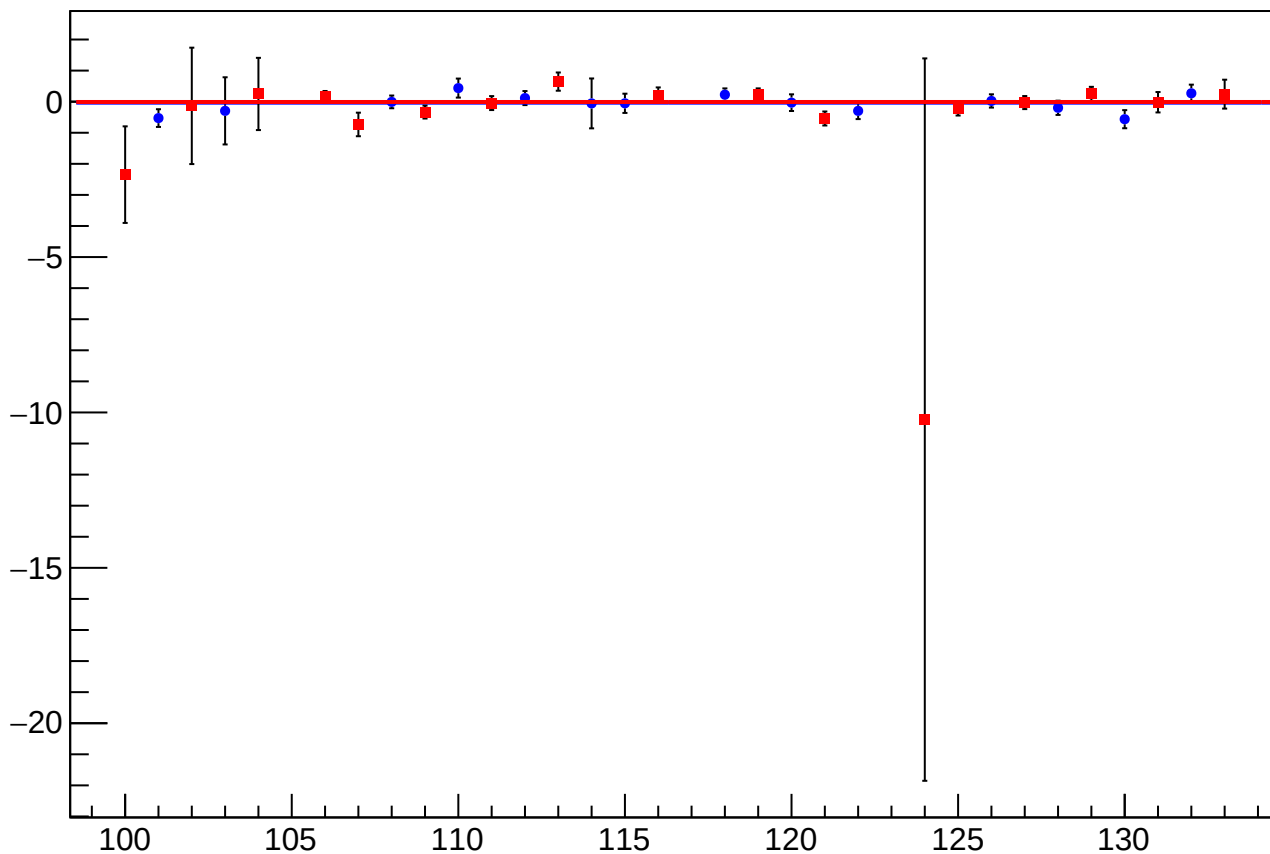
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5345766.7/30

- 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: -0.031+/-0.071  $\chi^2/\text{NDF}$ : 13.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.010+/-0.066  $\chi^2/\text{NDF}$ : 25.4/16

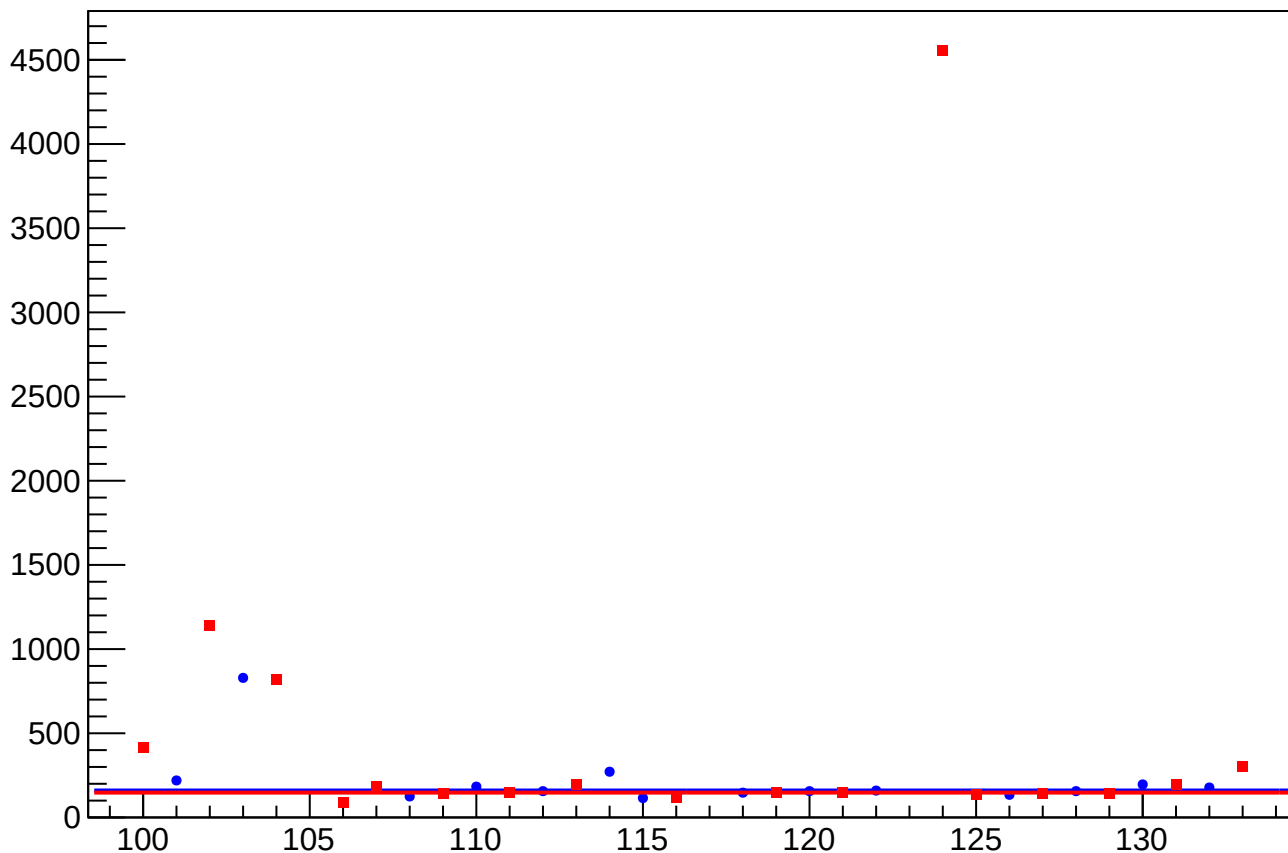
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.020+/-0.048  $\chi^2/\text{NDF}$ : 39.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 160.038+/-0.050  $\chi^2/\text{NDF}$ : 1083022.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 147.643+/-0.047  $\chi^2/\text{NDF}$ : 2156558.1/16

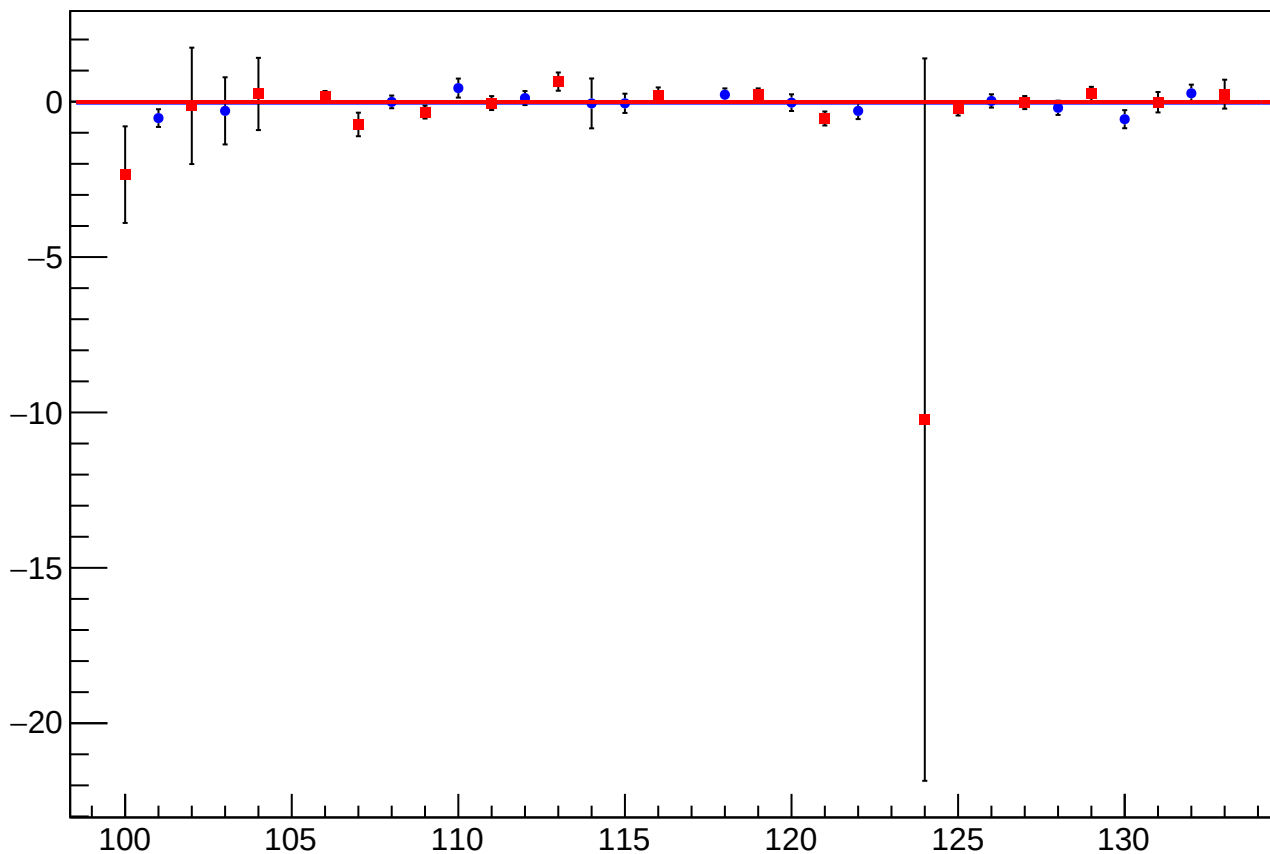
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 153.385+/-0.034  $\chi^2/\text{NDF}$ : 3272221.0/30

- 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:  $-0.031 \pm 0.071$   $\chi^2/\text{NDF}$ : 13.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.010 \pm 0.066$   $\chi^2/\text{NDF}$ : 25.4/16

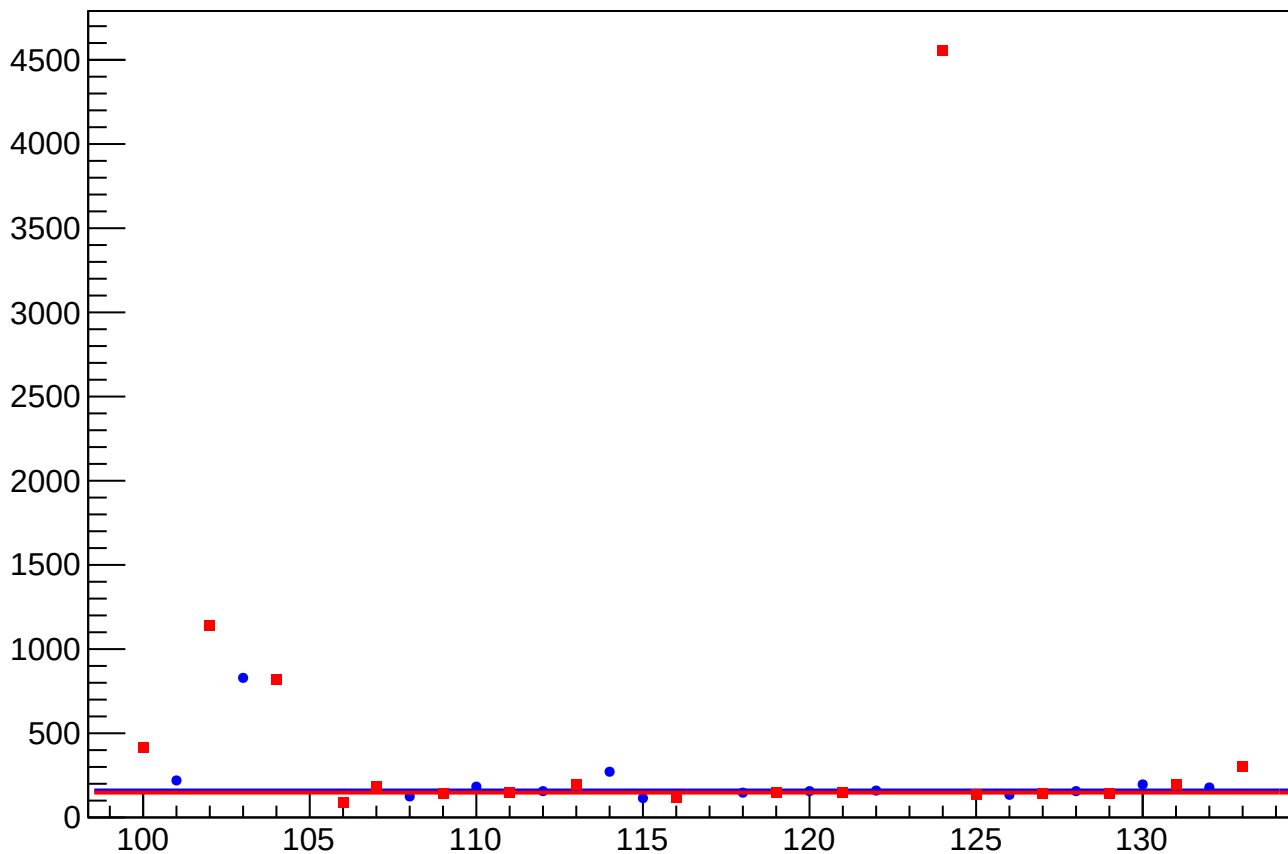
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.020 \pm 0.048$   $\chi^2/\text{NDF}$ : 39.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 160.038+/-0.050  $\chi^2/\text{NDF}$ : 1083022.8/13

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

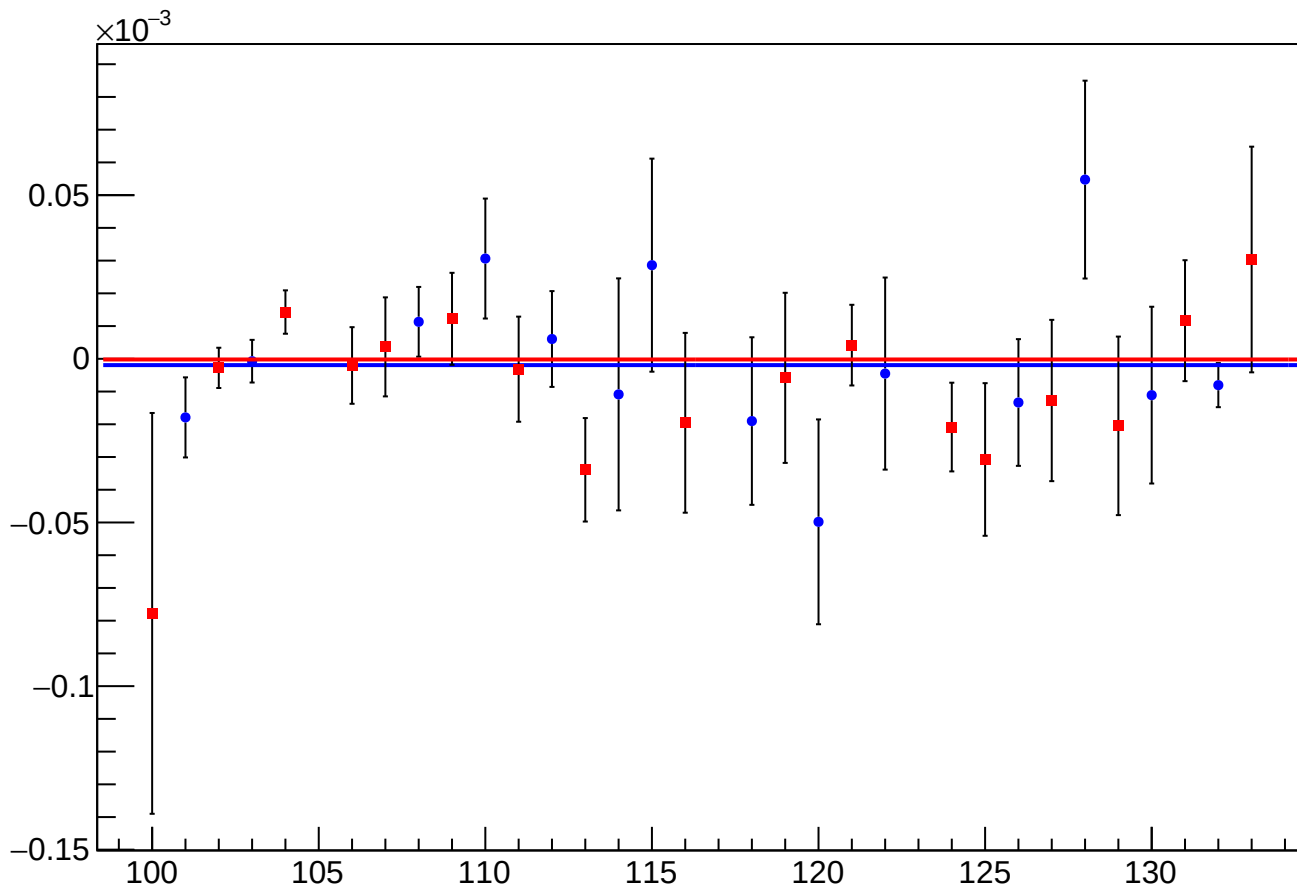
Right Out: 147.643+/-0.047  $\chi^2/\text{NDF}$ : 2156558.1/16

All: 153.385+/-0.034  $\chi^2/\text{NDF}$ : 3272221.0/30

- 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\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 18.7/16

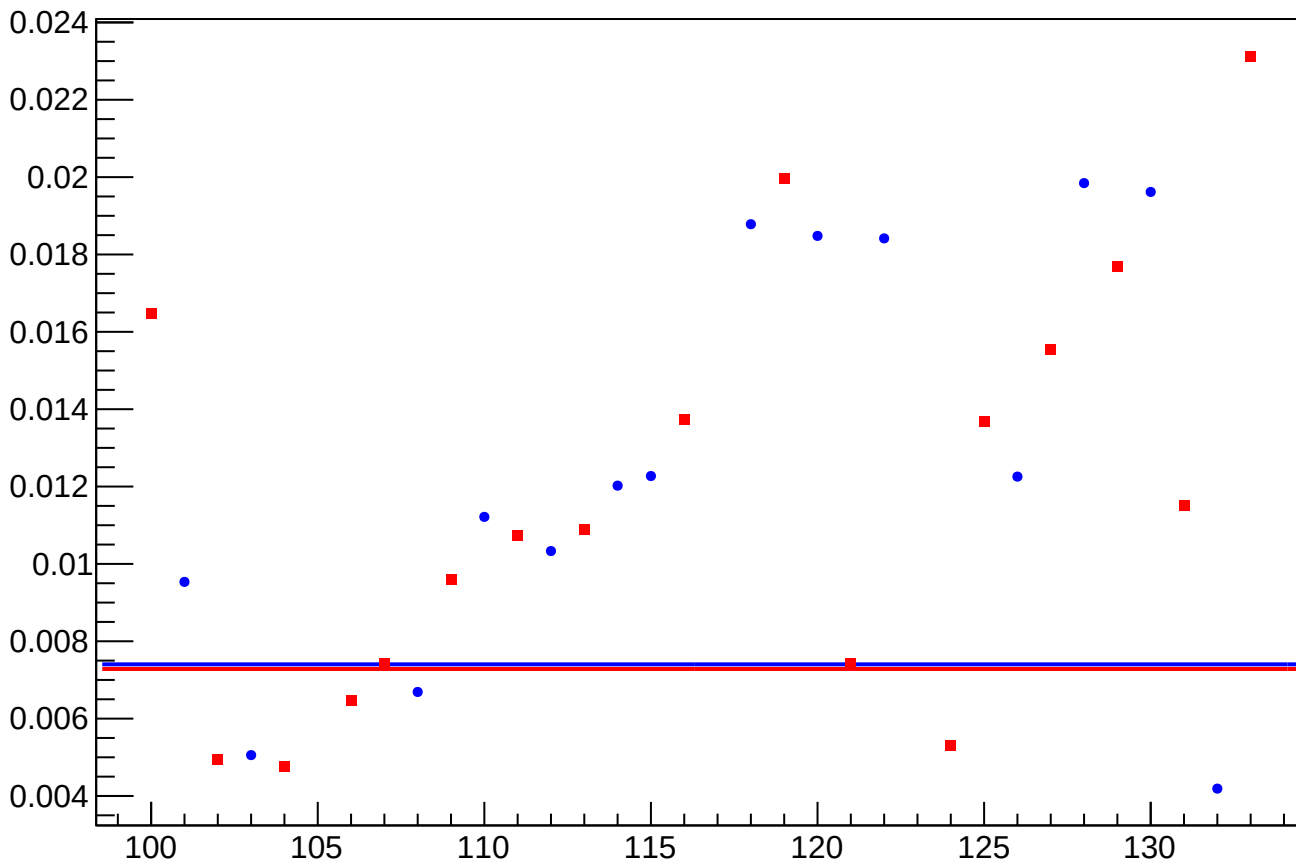
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 34.1/30

- 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  $\chi^2/\text{NDF}$ : 2831435.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 2703434.7/16

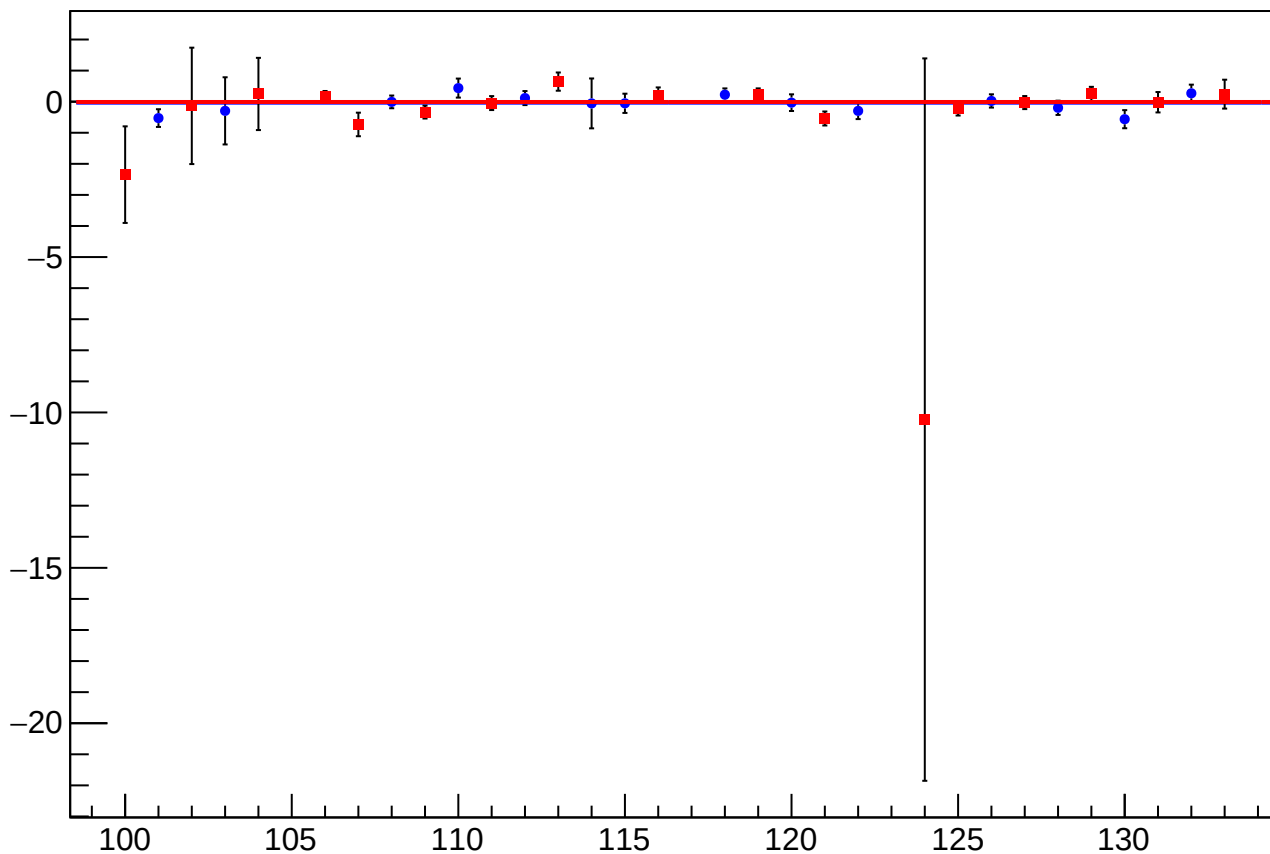
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 5536117.0/30

- 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:  $-0.031 \pm 0.071$   $\chi^2/\text{NDF}$ : 13.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.010 \pm 0.066$   $\chi^2/\text{NDF}$ : 25.4/16

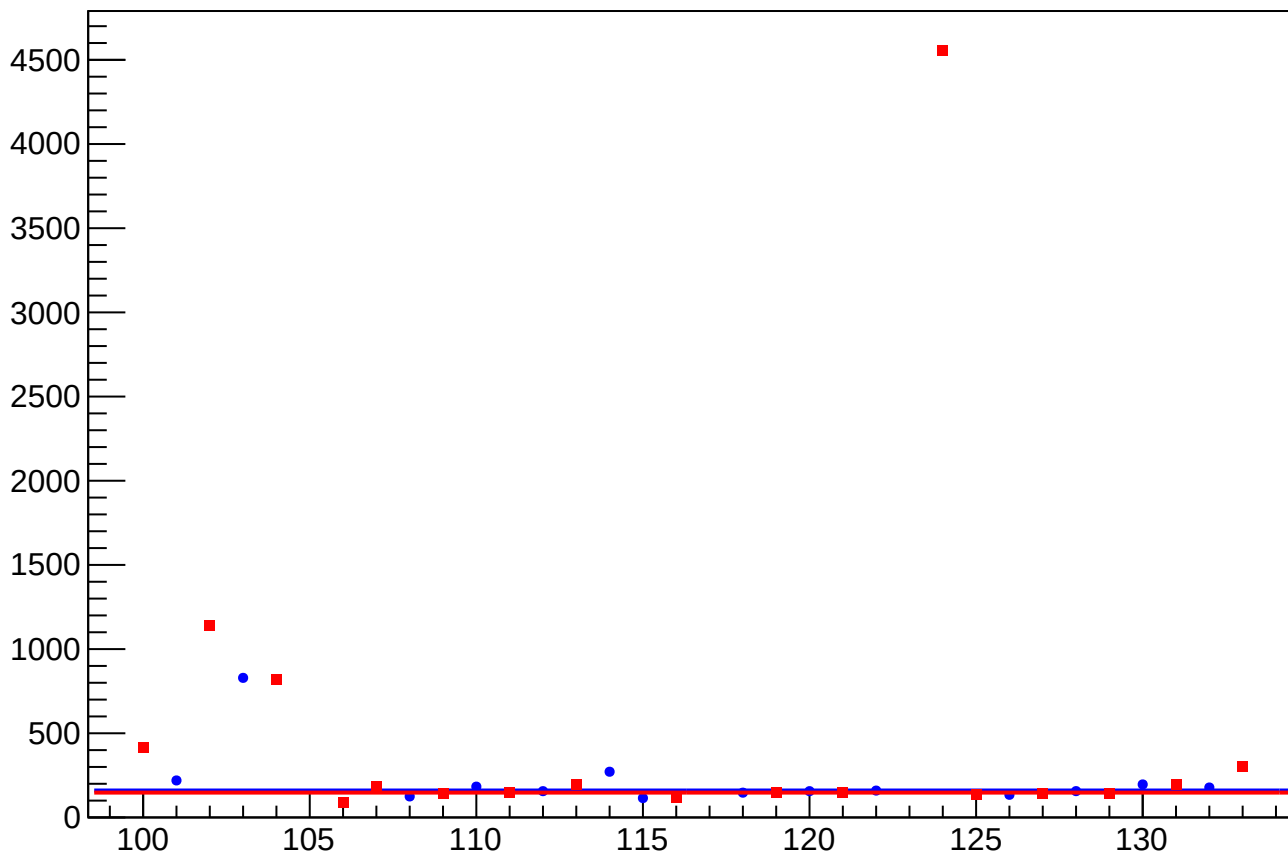
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.020 \pm 0.048$   $\chi^2/\text{NDF}$ : 39.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 160.037+/-0.050  $\chi^2/\text{NDF}$ : 1082999.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 147.642+/-0.047  $\chi^2/\text{NDF}$ : 2156544.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

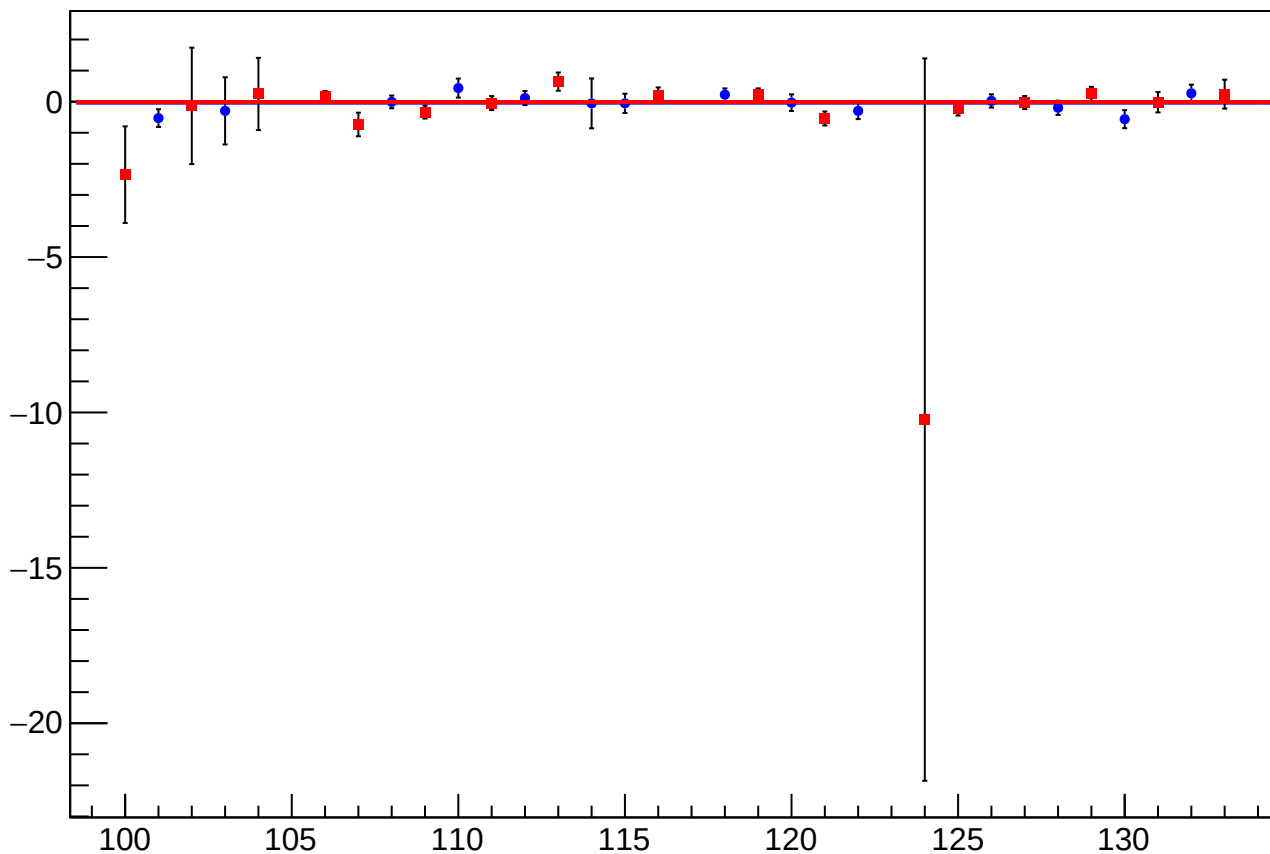
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 153.384+/-0.034  $\chi^2/\text{NDF}$ : 3272186.7/30

- 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: -0.031 $\pm$ 0.071  $\chi^2$ /NDF: 13.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.010 $\pm$ 0.066  $\chi^2$ /NDF: 25.4/16

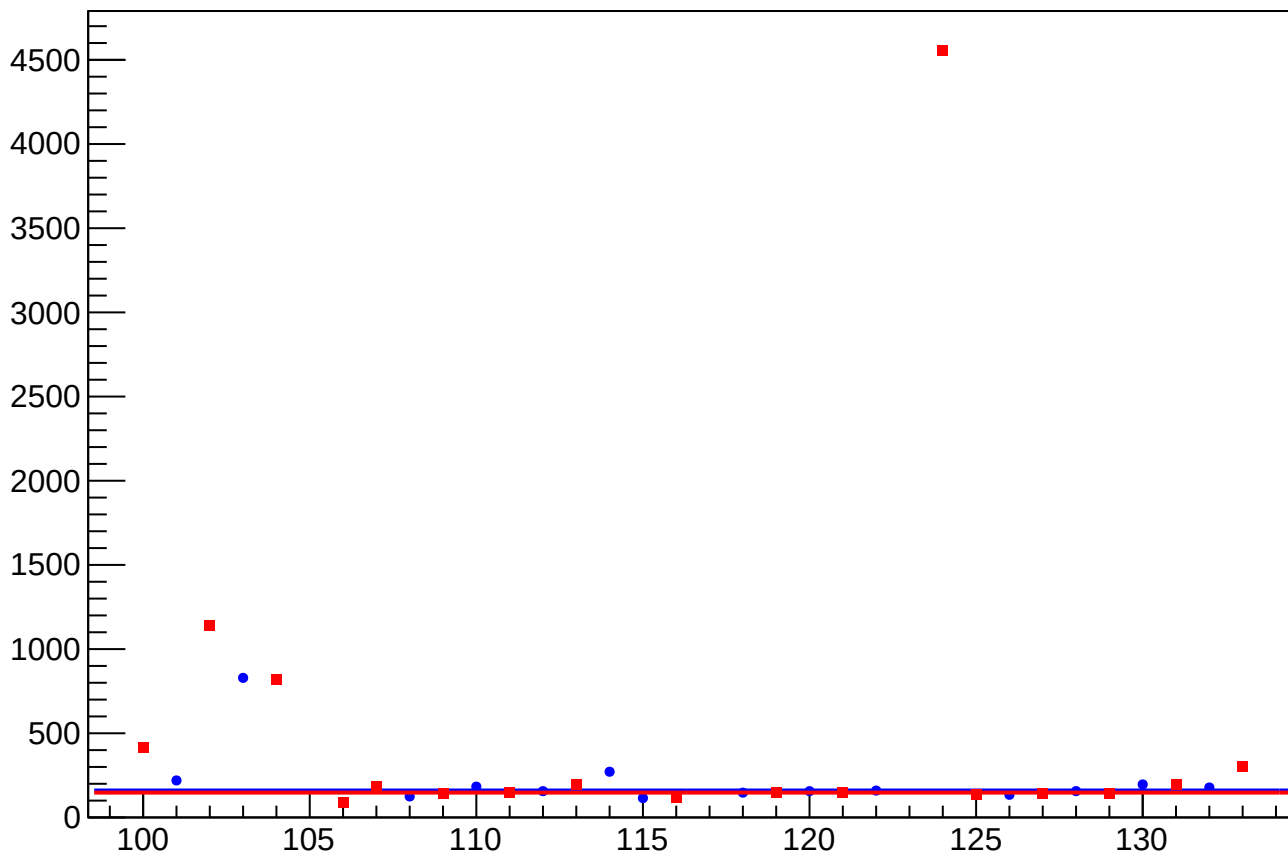
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.020 $\pm$ 0.048  $\chi^2$ /NDF: 39.1/30

- 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: 160.037+/-0.050  $\chi^2/\text{NDF}$ : 1082999.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 147.642+/-0.047  $\chi^2/\text{NDF}$ : 2156544.3/16

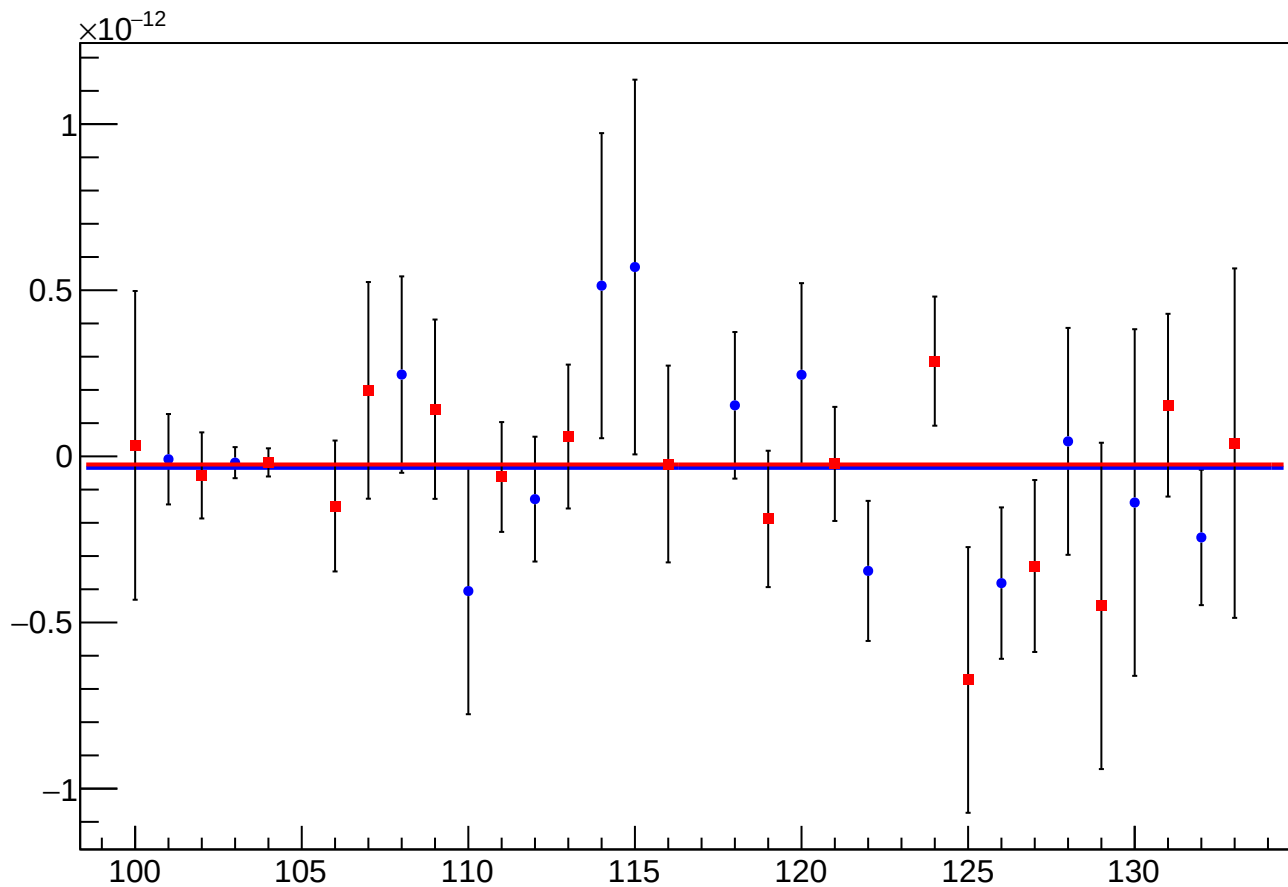
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 153.384+/-0.034  $\chi^2/\text{NDF}$ : 3272186.7/30

- 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  $\chi^2$ /NDF: 12.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 10.0/16

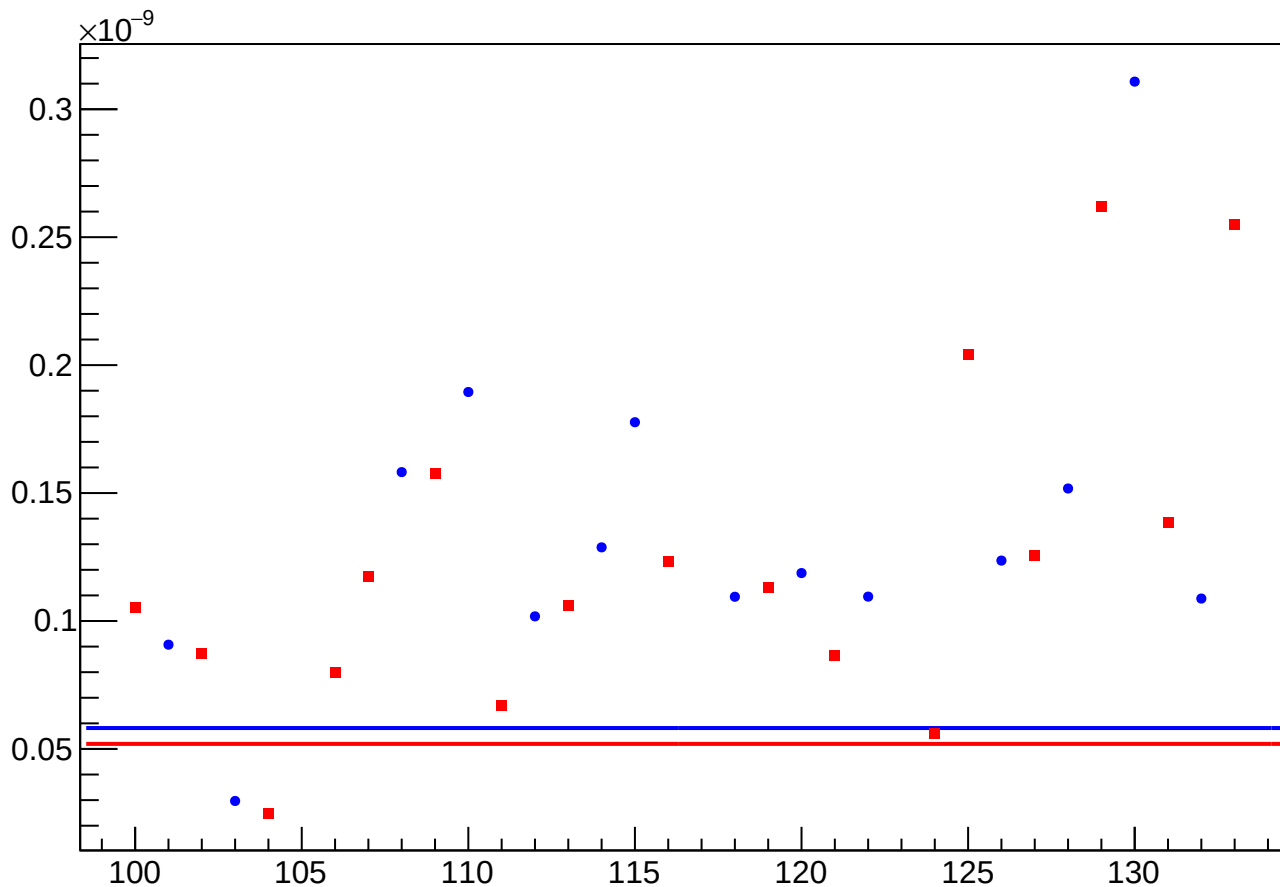
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 22.3/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2813035.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3261382.7/16

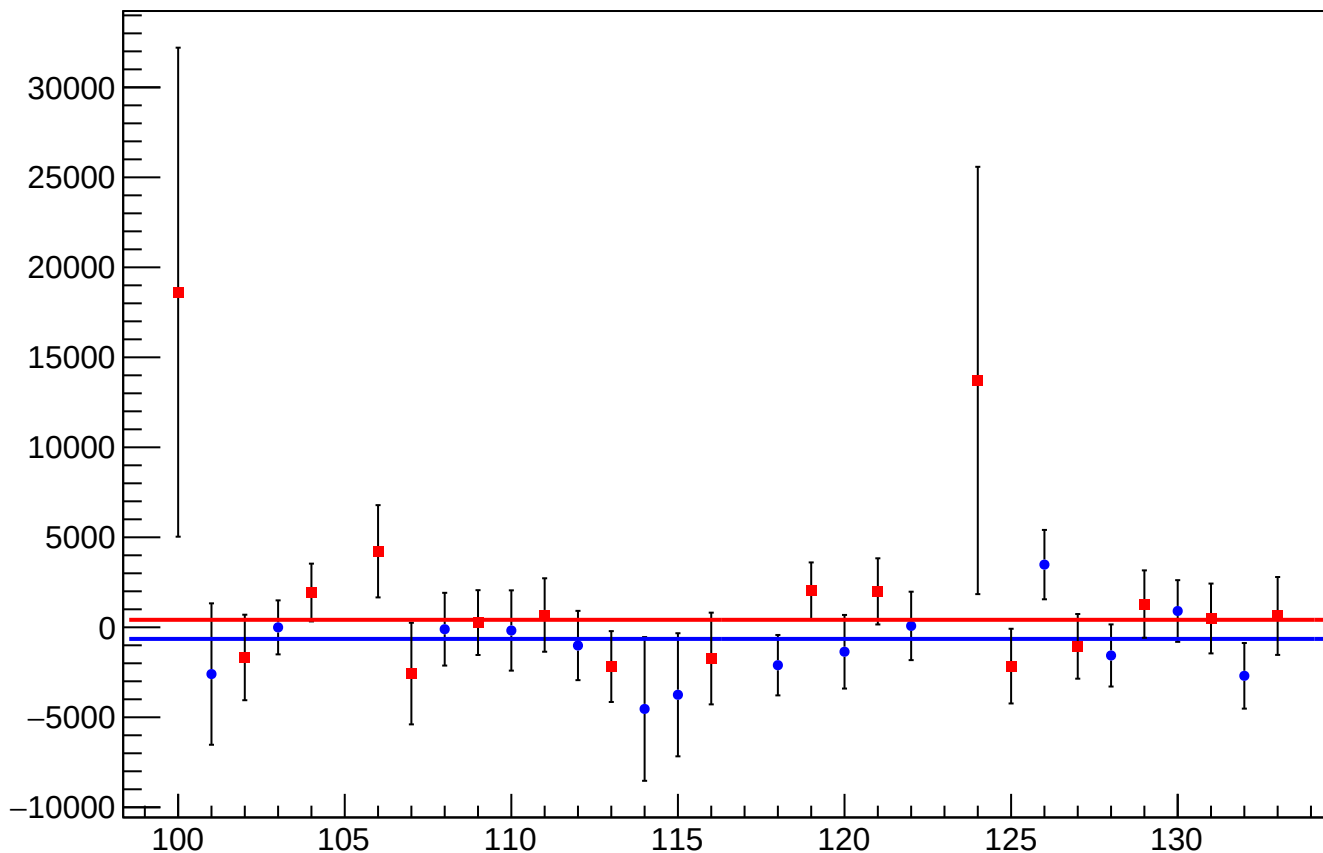
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6103629.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -644.864+/-535.267  $\chi^2/\text{NDF}$ : 10.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 416.064+/-511.787  $\chi^2/\text{NDF}$ : 14.7/16

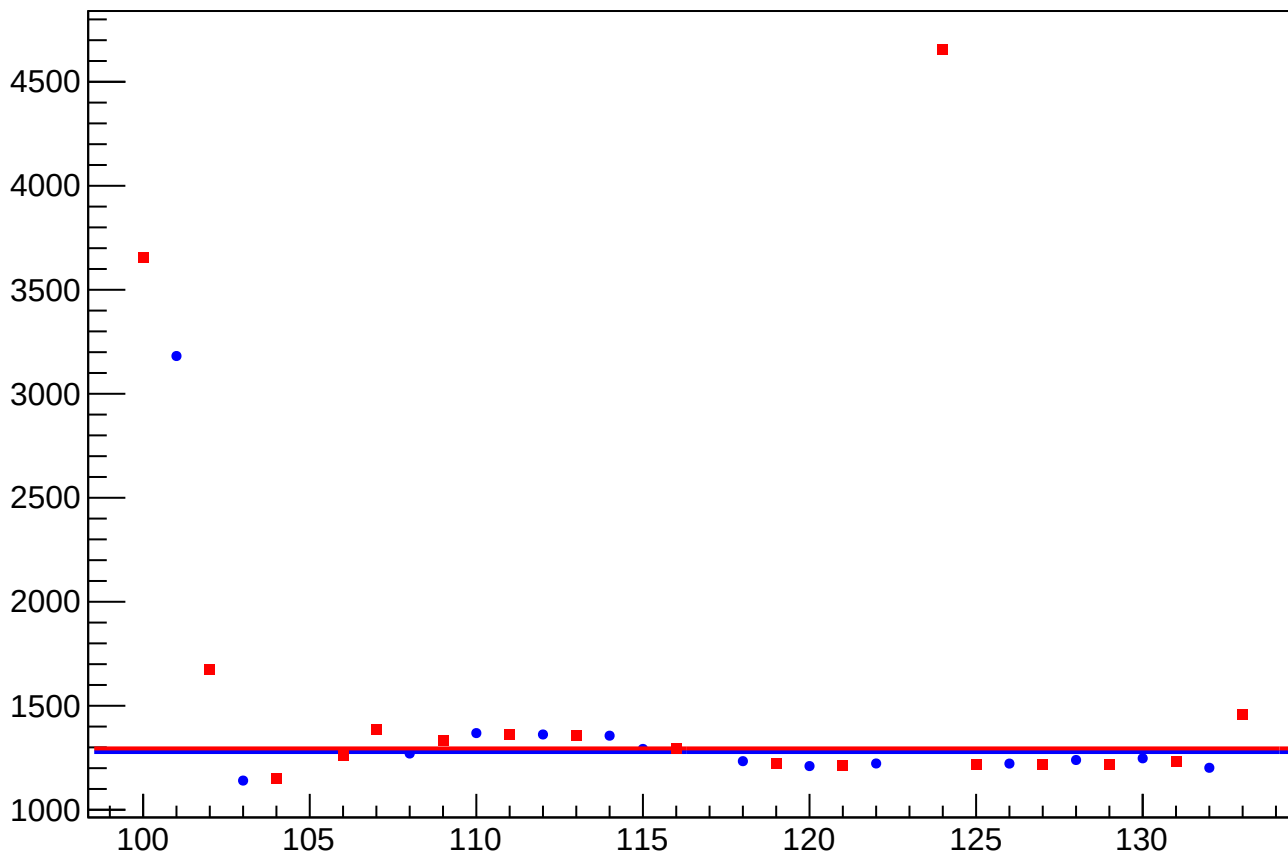
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -90.621+/-369.910  $\chi^2/\text{NDF}$ : 27.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1277.598+/-0.378  $\chi^2/\text{NDF}$ : 506454.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1294.931+/-0.362  $\chi^2/\text{NDF}$ : 327826.2/16

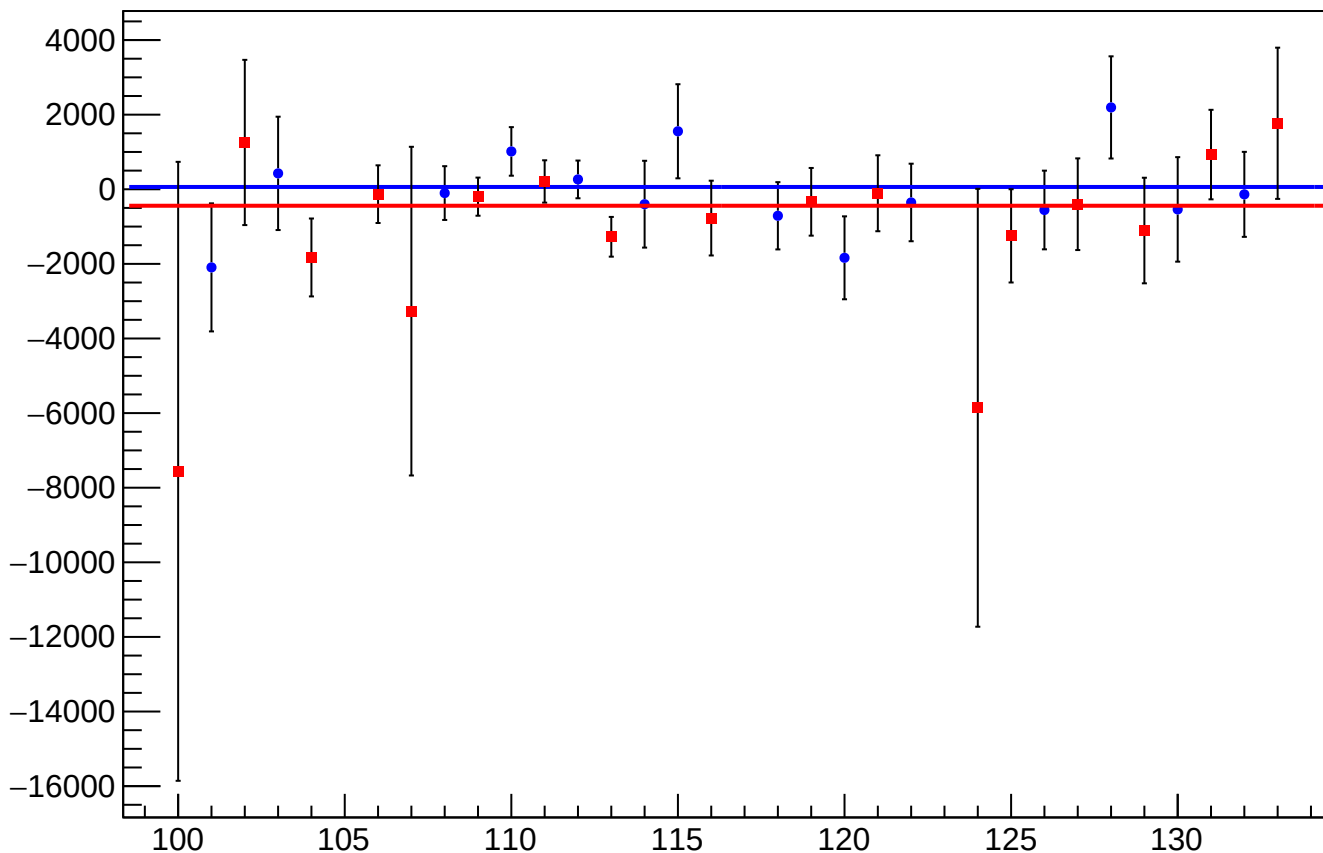
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1286.653+/-0.262  $\chi^2/\text{NDF}$ : 835375.8/30

- 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: 61.823+/-249.878  $\chi^2/\text{NDF}$ : 12.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -441.609+/-227.848  $\chi^2/\text{NDF}$ : 11.9/16

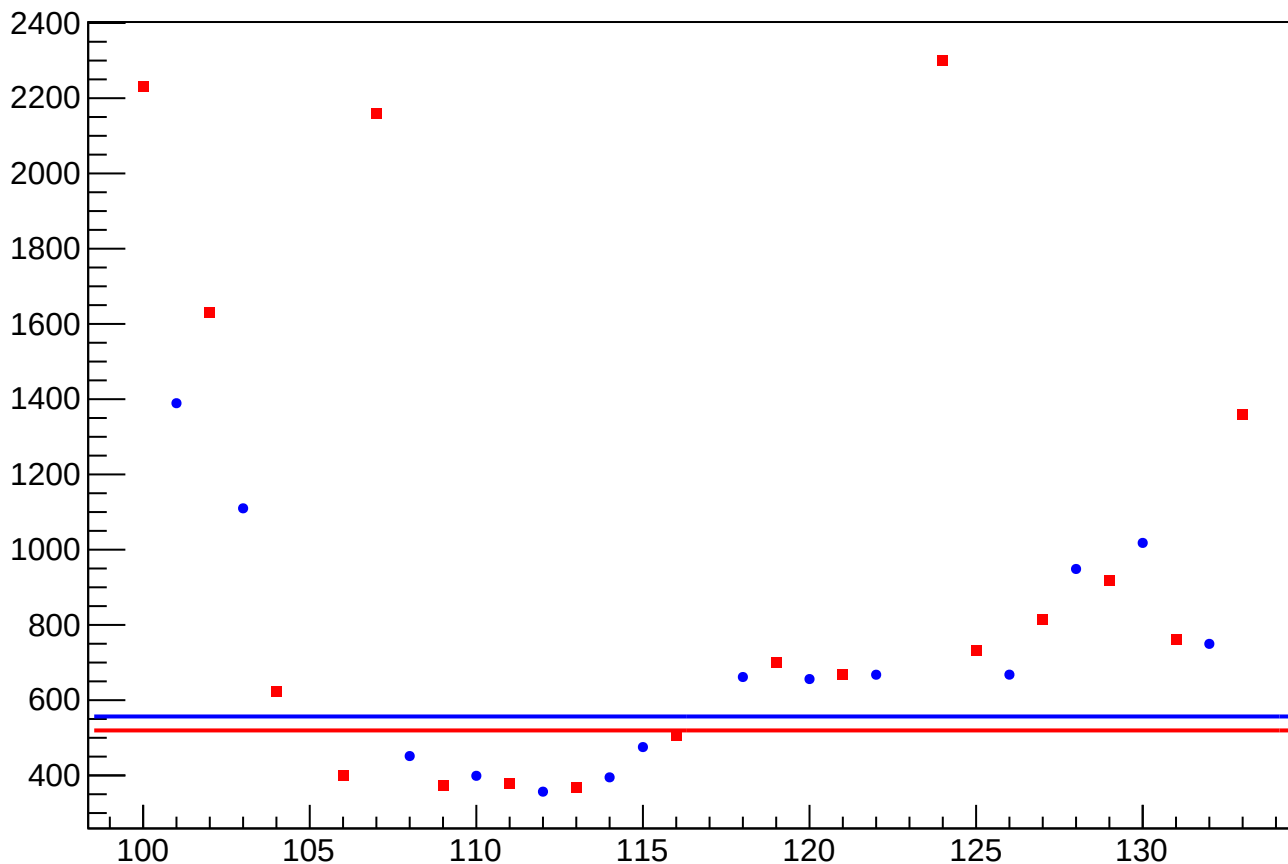
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -213.059+/-168.363  $\chi^2/\text{NDF}$ : 26.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_reg\_correction\_rms vs Slug



Right In: 556.674+/-0.177  $\chi^2/\text{NDF}$ : 1781967.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 519.572+/-0.161  $\chi^2/\text{NDF}$ : 2444739.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

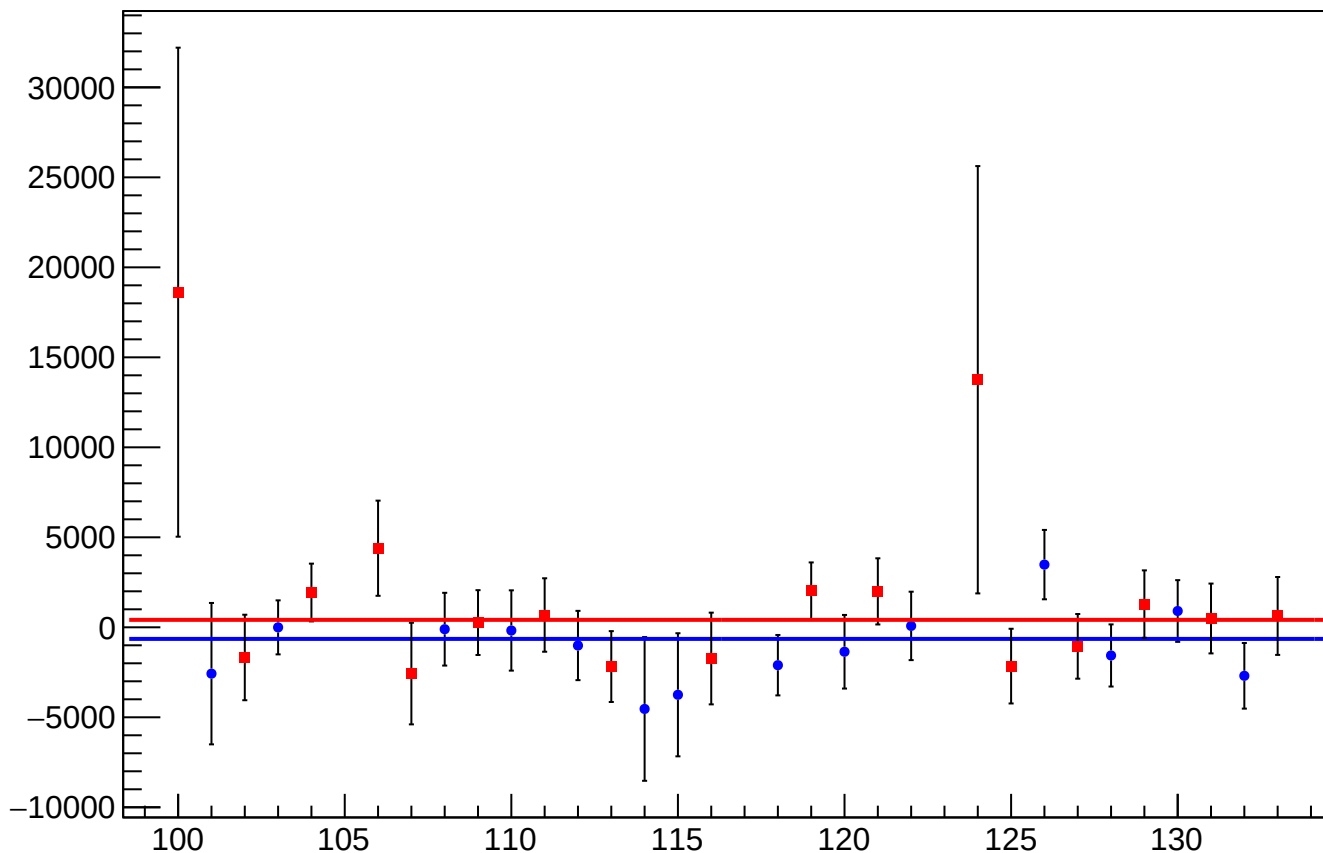
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 536.415+/-0.119  $\chi^2/\text{NDF}$ : 4250782.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -644.346+/-535.267  $\chi^2/\text{NDF}$ : 10.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 413.469+/-512.399  $\chi^2/\text{NDF}$ : 14.8/16

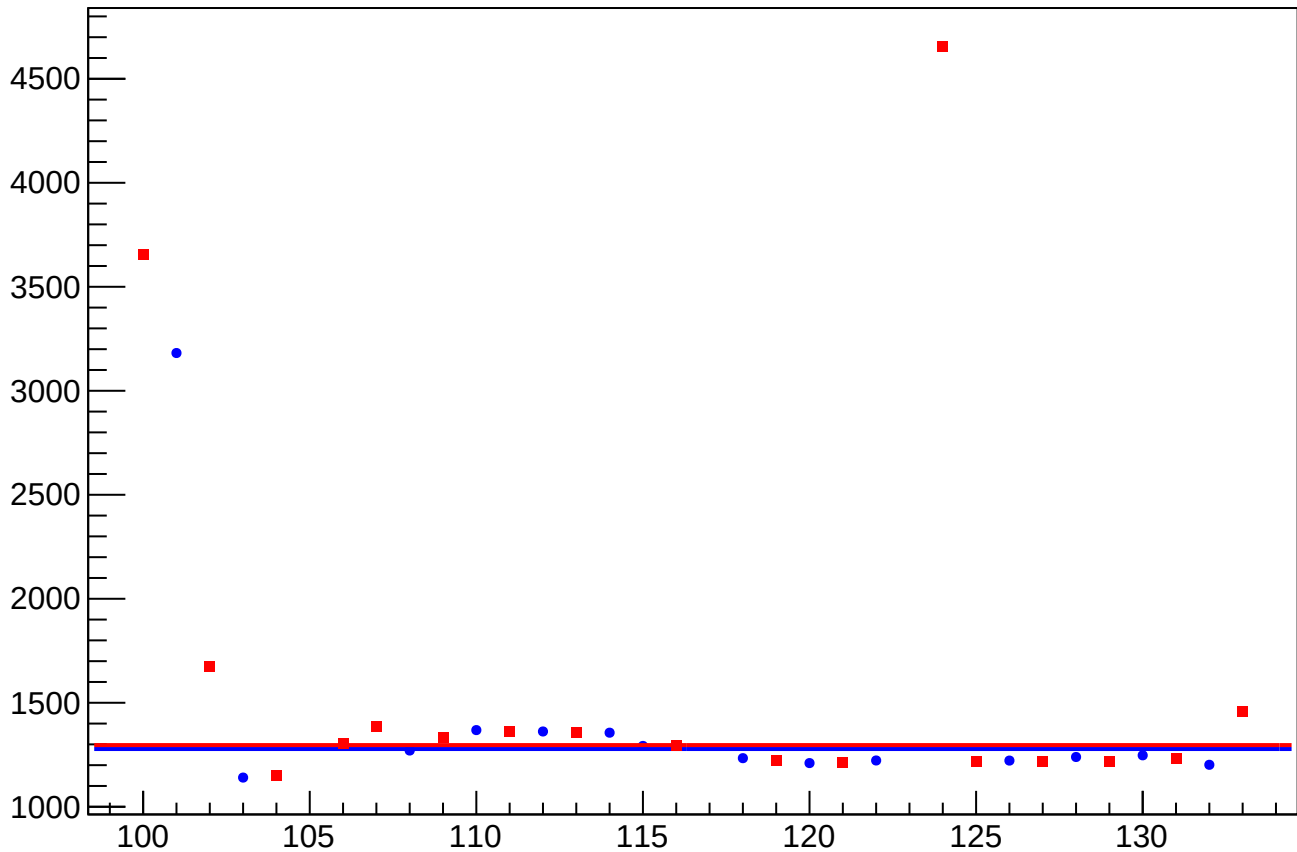
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -92.359+/-370.141  $\chi^2/\text{NDF}$ : 27.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1277.598 $\pm$ 0.378  $\chi^2$ /NDF: 506455.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1296.539 $\pm$ 0.362  $\chi^2$ /NDF: 327520.9/16

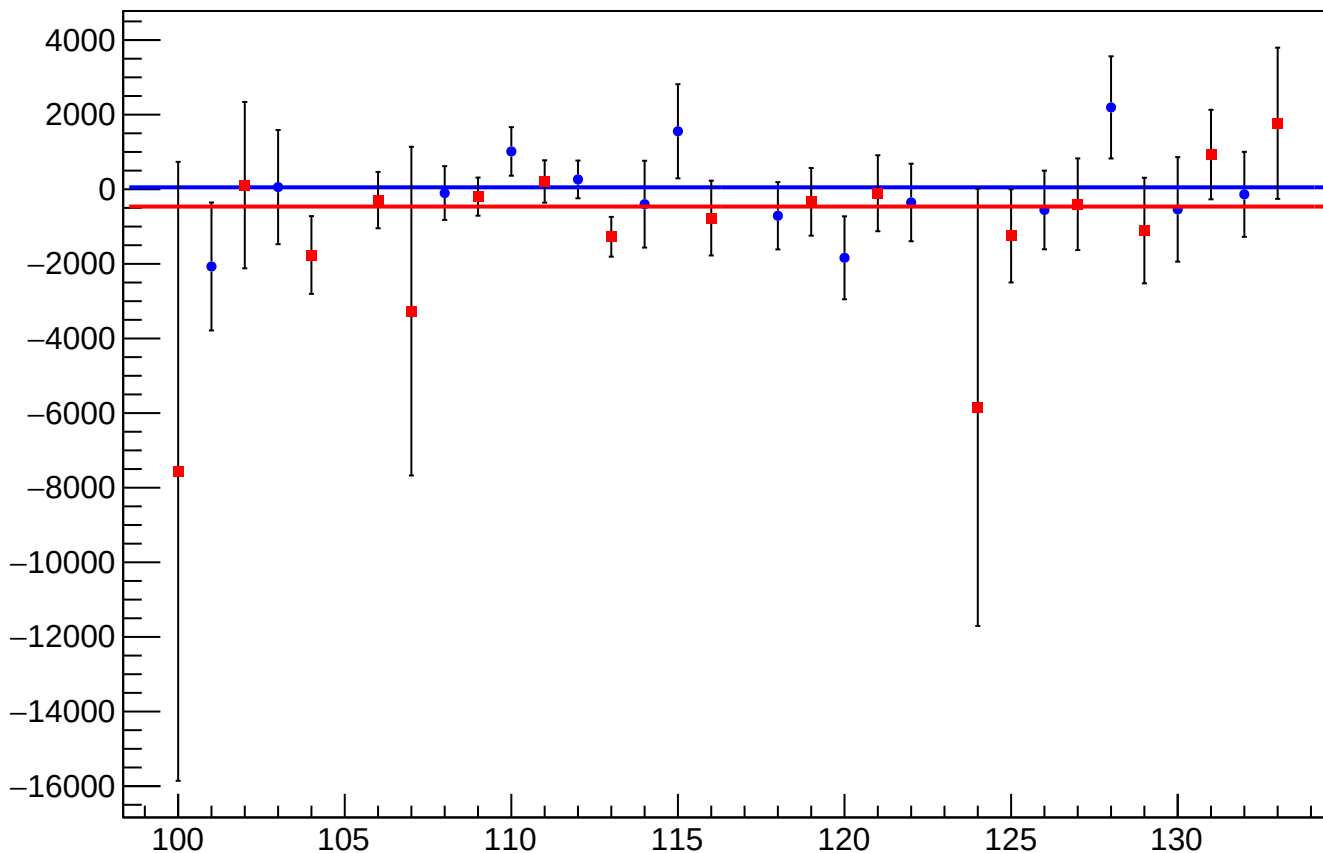
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1287.482 $\pm$ 0.262  $\chi^2$ /NDF: 835283.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_cor\_correction\_mean vs Slug



Right In: 52.371 $\pm$ 249.925  $\chi^2$ /NDF: 12.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -463.749 $\pm$ 227.363  $\chi^2$ /NDF: 11.0/16

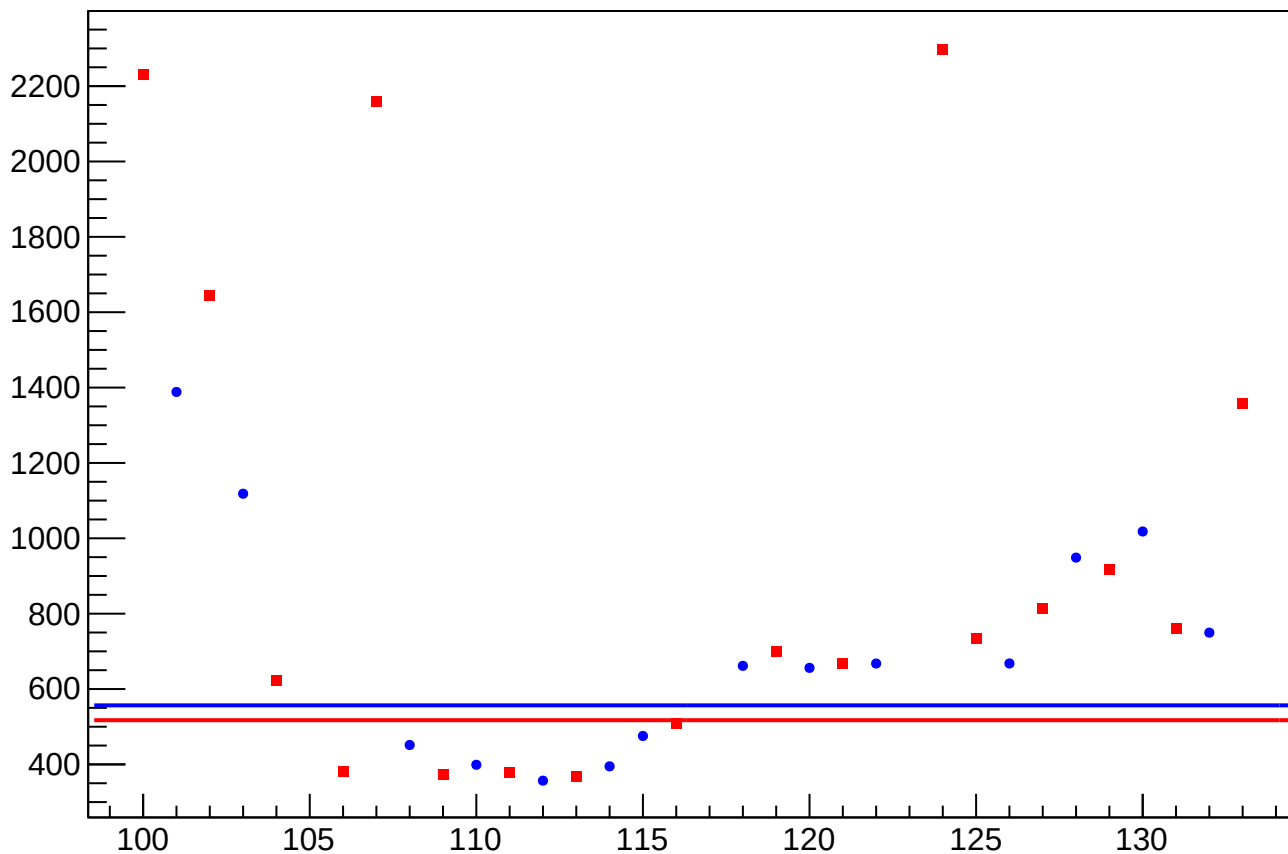
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -230.033 $\pm$ 168.182  $\chi^2$ /NDF: 25.6/30

- 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: 556.685+/-0.177  $\chi^2/\text{NDF}$ : 1785638.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 517.287+/-0.161  $\chi^2/\text{NDF}$ : 2471265.9/16

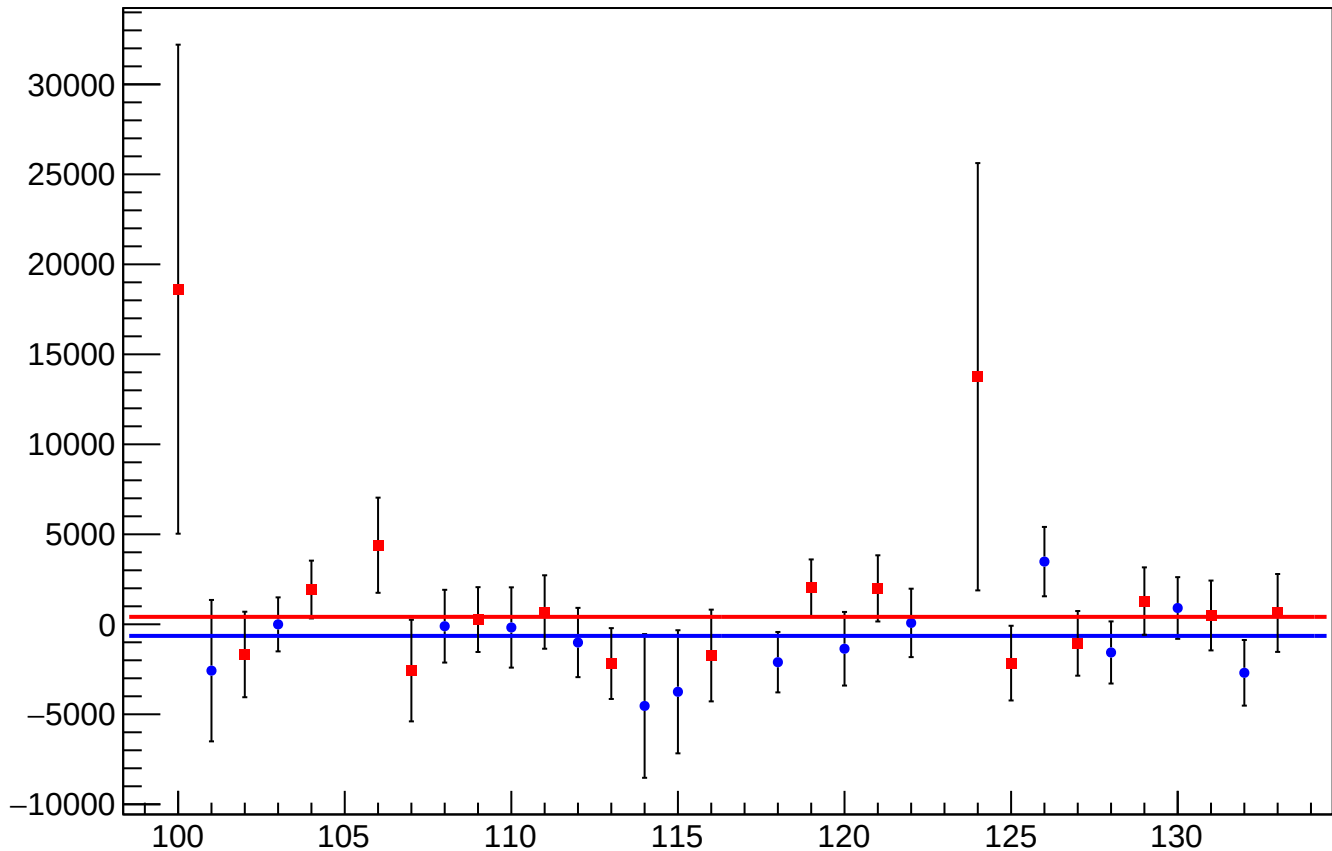
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 535.128+/-0.119  $\chi^2/\text{NDF}$ : 4284098.0/30

- 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: -644.346+/-535.267  $\chi^2/\text{NDF}$ : 10.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 413.469+/-512.399  $\chi^2/\text{NDF}$ : 14.8/16

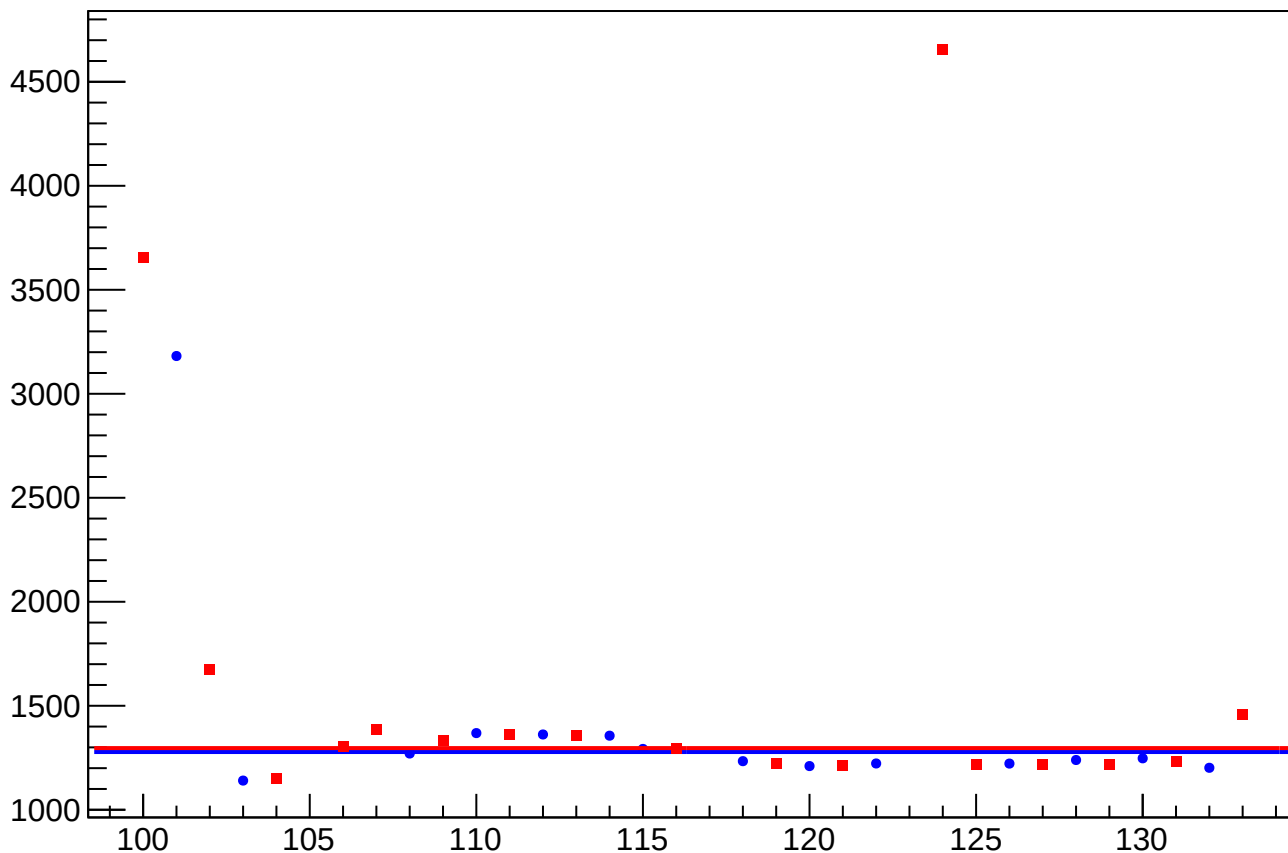
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -92.359+/-370.141  $\chi^2/\text{NDF}$ : 27.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1277.598 $\pm$ 0.378  $\chi^2$ /NDF: 506455.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1296.539 $\pm$ 0.362  $\chi^2$ /NDF: 327520.9/16

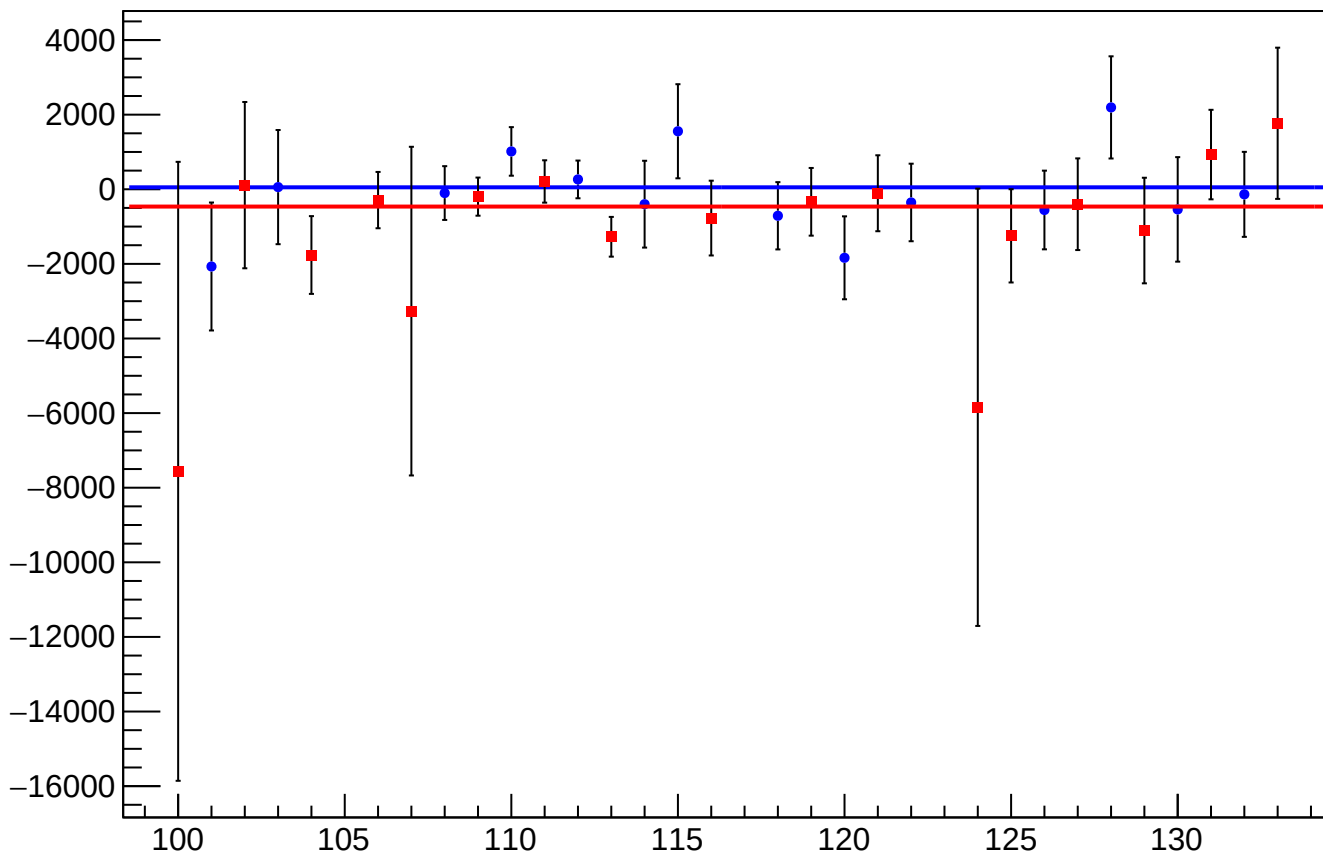
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1287.482 $\pm$ 0.262  $\chi^2$ /NDF: 835283.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 52.371+/-249.925  $\chi^2/\text{NDF}$ : 12.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -463.749+/-227.363  $\chi^2/\text{NDF}$ : 11.0/16

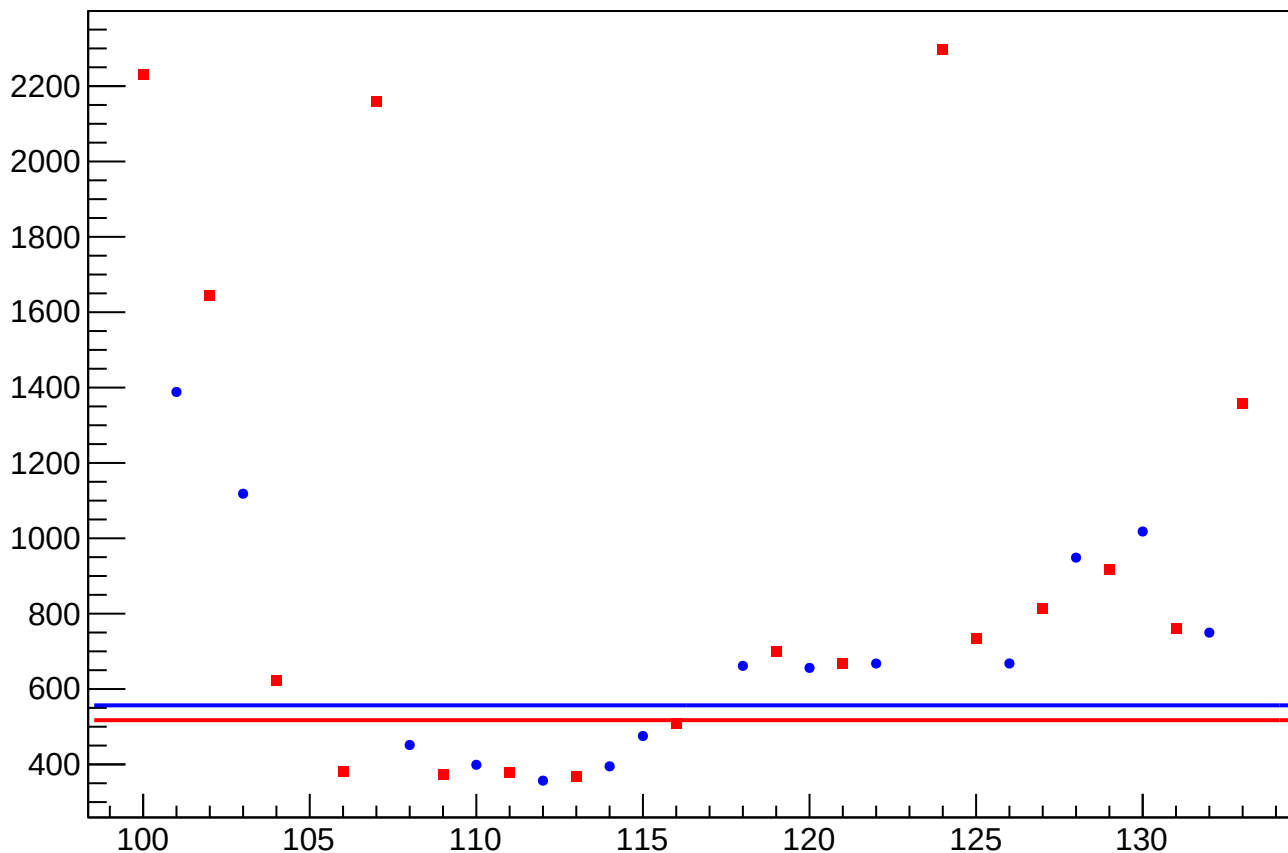
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -230.033+/-168.182  $\chi^2/\text{NDF}$ : 25.6/30

- 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: 556.685+/-0.177  $\chi^2/\text{NDF}$ : 1785638.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 517.287+/-0.161  $\chi^2/\text{NDF}$ : 2471265.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

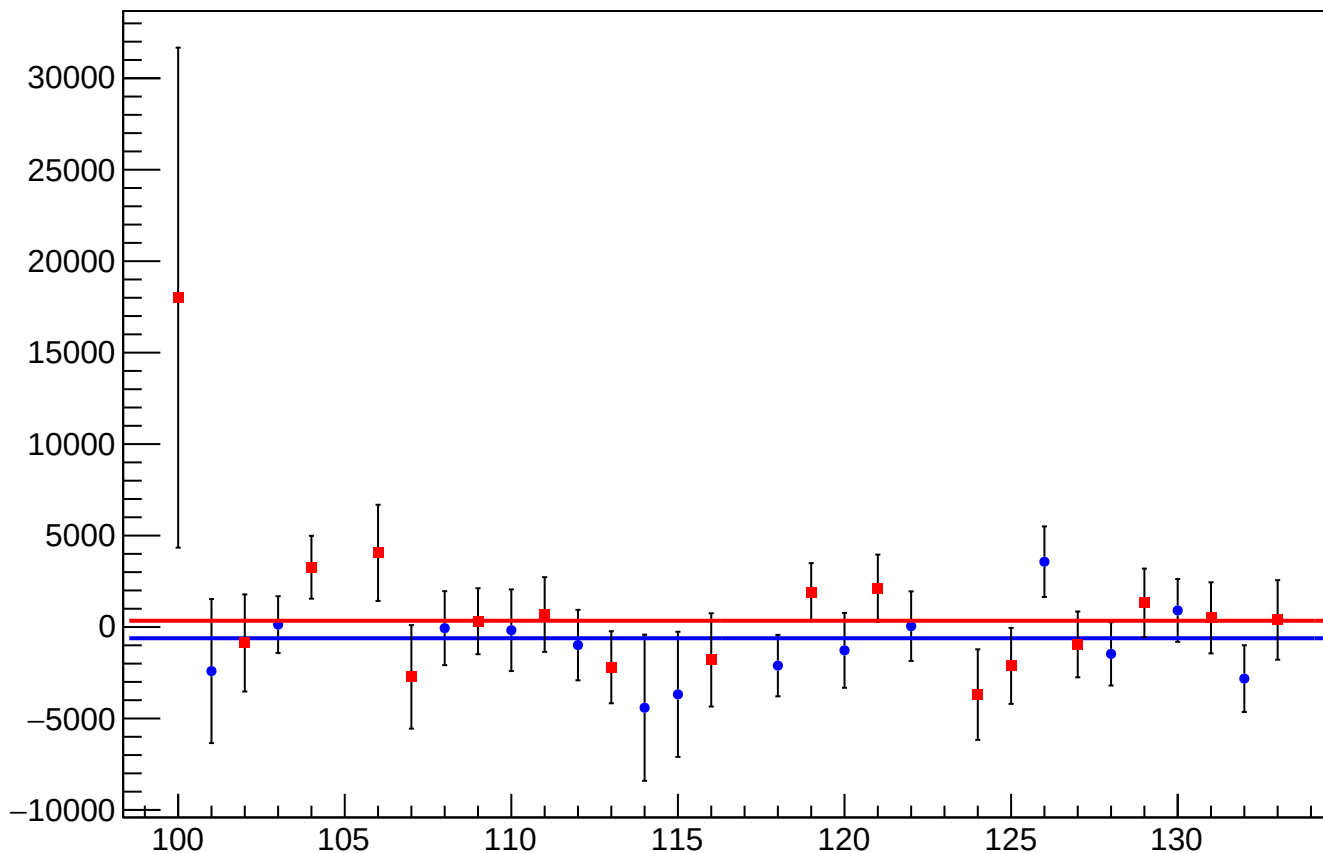
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 535.128+/-0.119  $\chi^2/\text{NDF}$ : 4284098.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -613.239+/-538.023  $\chi^2/\text{NDF}$ : 10.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 344.103+/-508.049  $\chi^2/\text{NDF}$ : 17.1/16

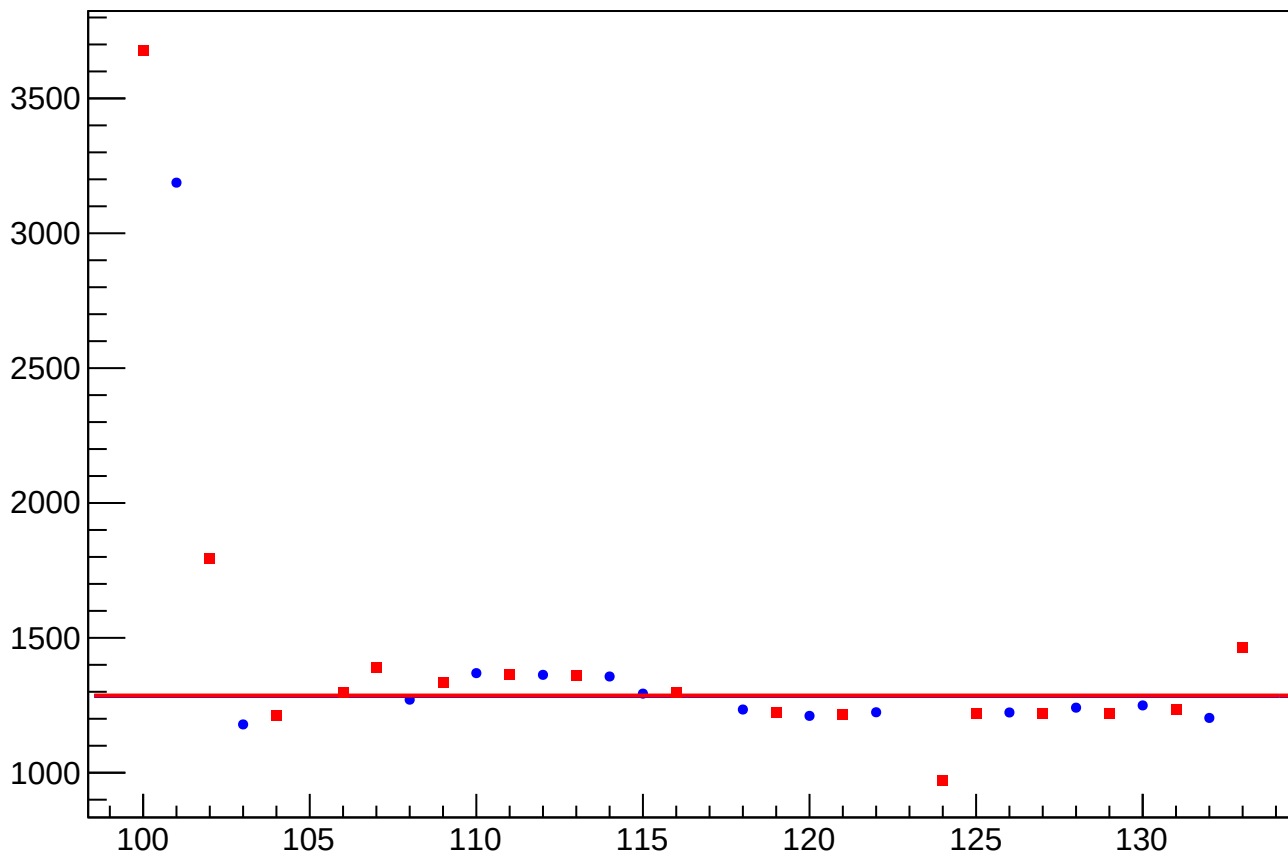
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -107.159+/-369.387  $\chi^2/\text{NDF}$ : 29.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1284.479+/-0.380  $\chi^2/\text{NDF}$ : 498185.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1286.078+/-0.359  $\chi^2/\text{NDF}$ : 208756.4/16

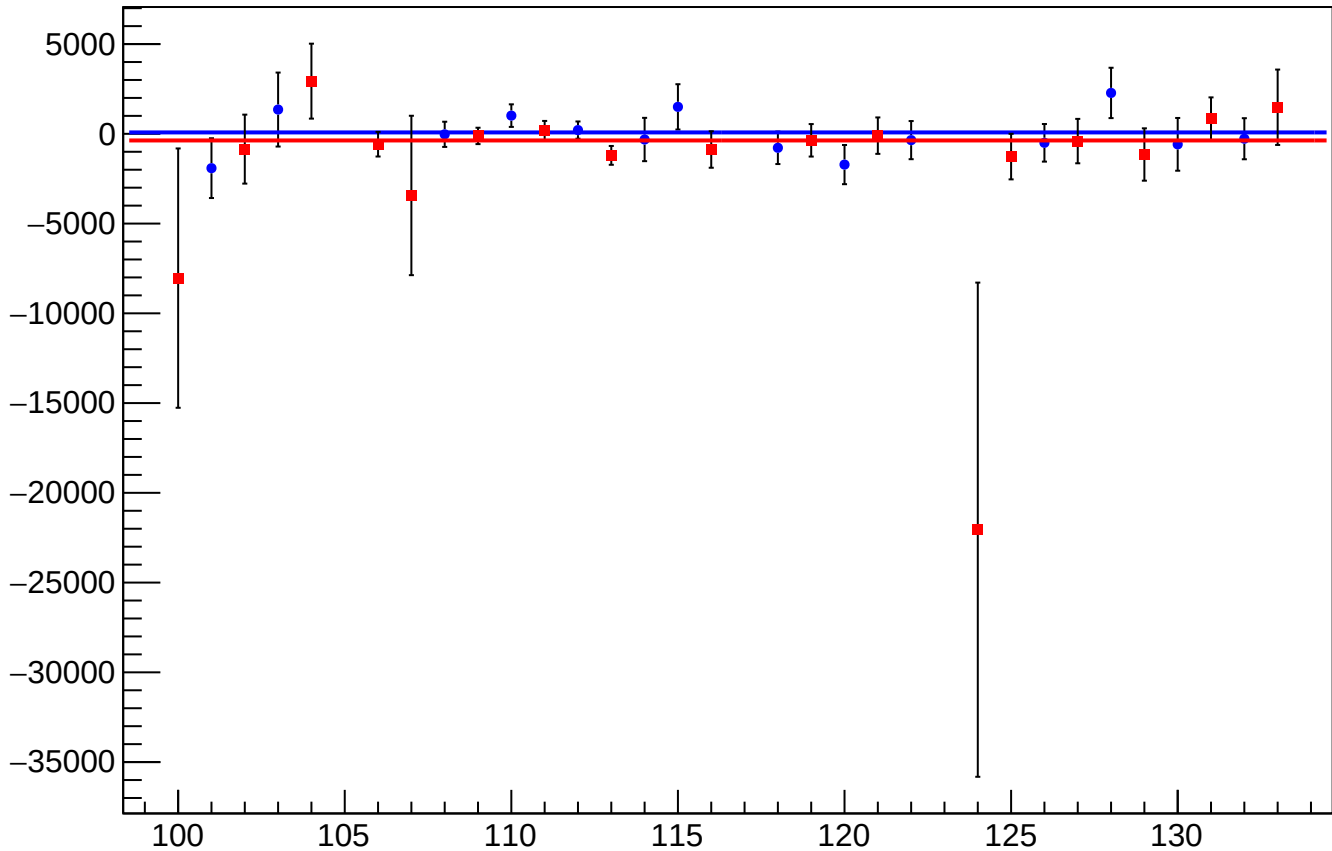
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1285.324+/-0.261  $\chi^2/\text{NDF}$ : 706951.3/30

- 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: 78.601 $\pm$ 246.871  $\chi^2$ /NDF: 12.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -369.222 $\pm$ 220.983  $\chi^2$ /NDF: 13.5/16

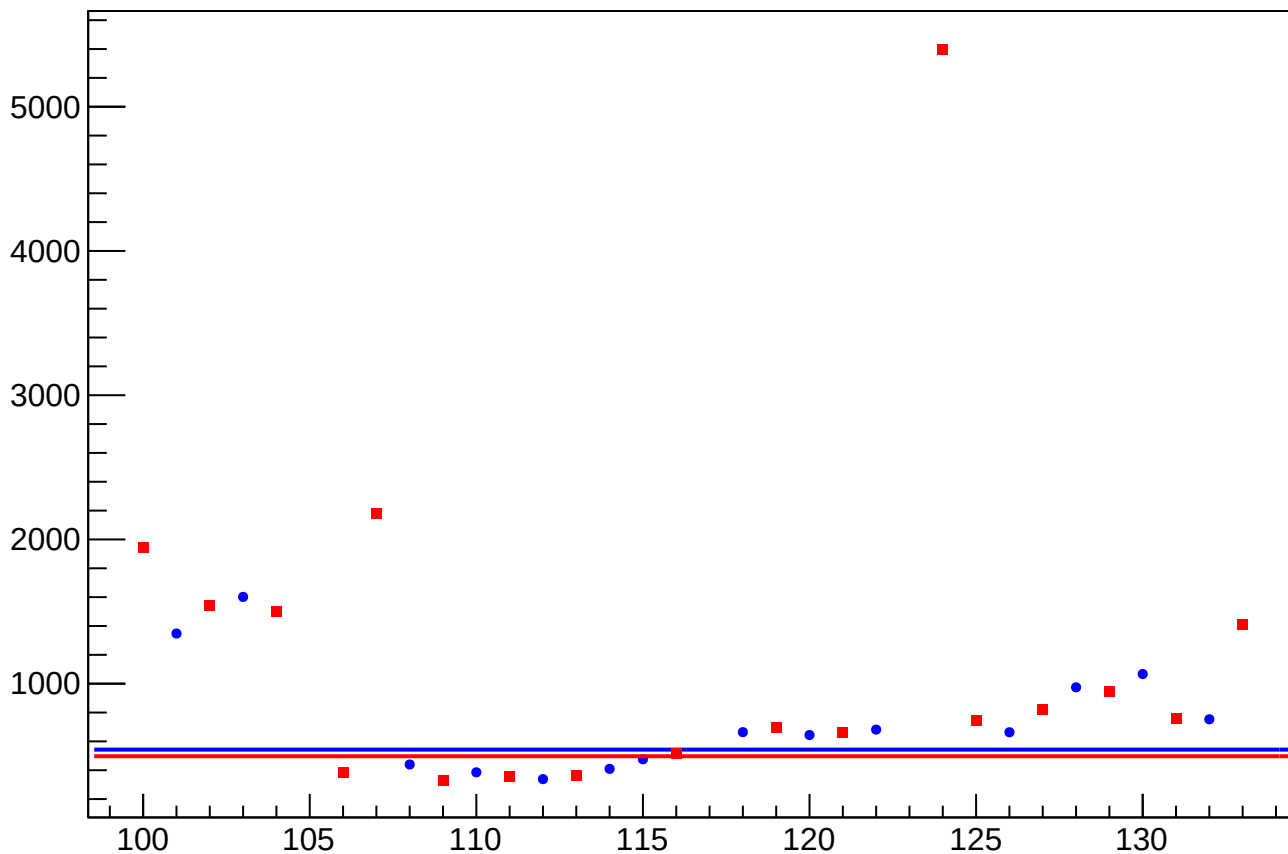
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -170.015 $\pm$ 164.653  $\chi^2$ /NDF: 27.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_dit\_correction\_rms vs Slug



Right In: 542.852+/-0.175  $\chi^2/\text{NDF}$ : 2182620.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 496.853+/-0.156  $\chi^2/\text{NDF}$ : 3304215.7/16

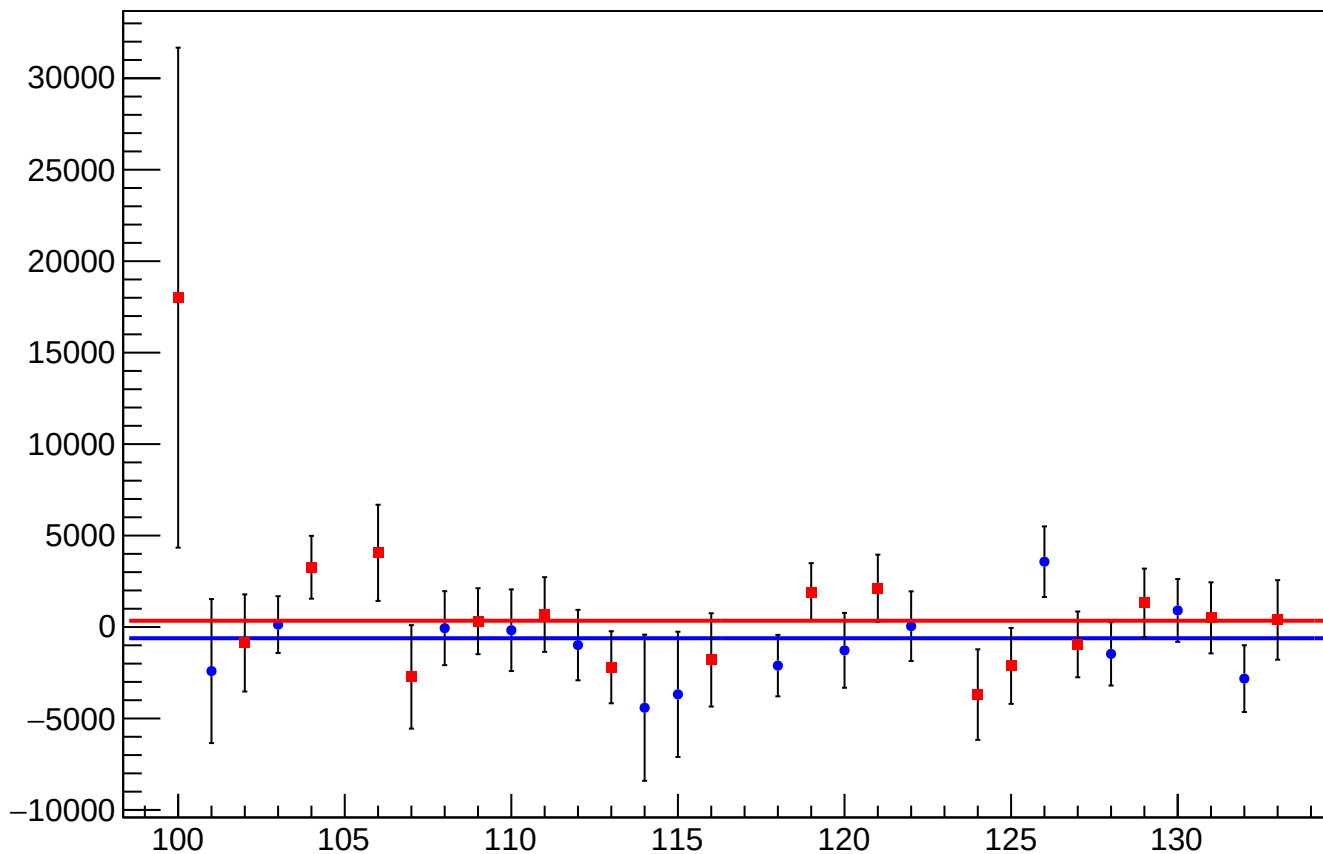
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 517.315+/-0.116  $\chi^2/\text{NDF}$ : 5525385.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -613.236+/-538.023  $\chi^2/\text{NDF}$ : 10.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 344.103+/-508.049  $\chi^2/\text{NDF}$ : 17.1/16

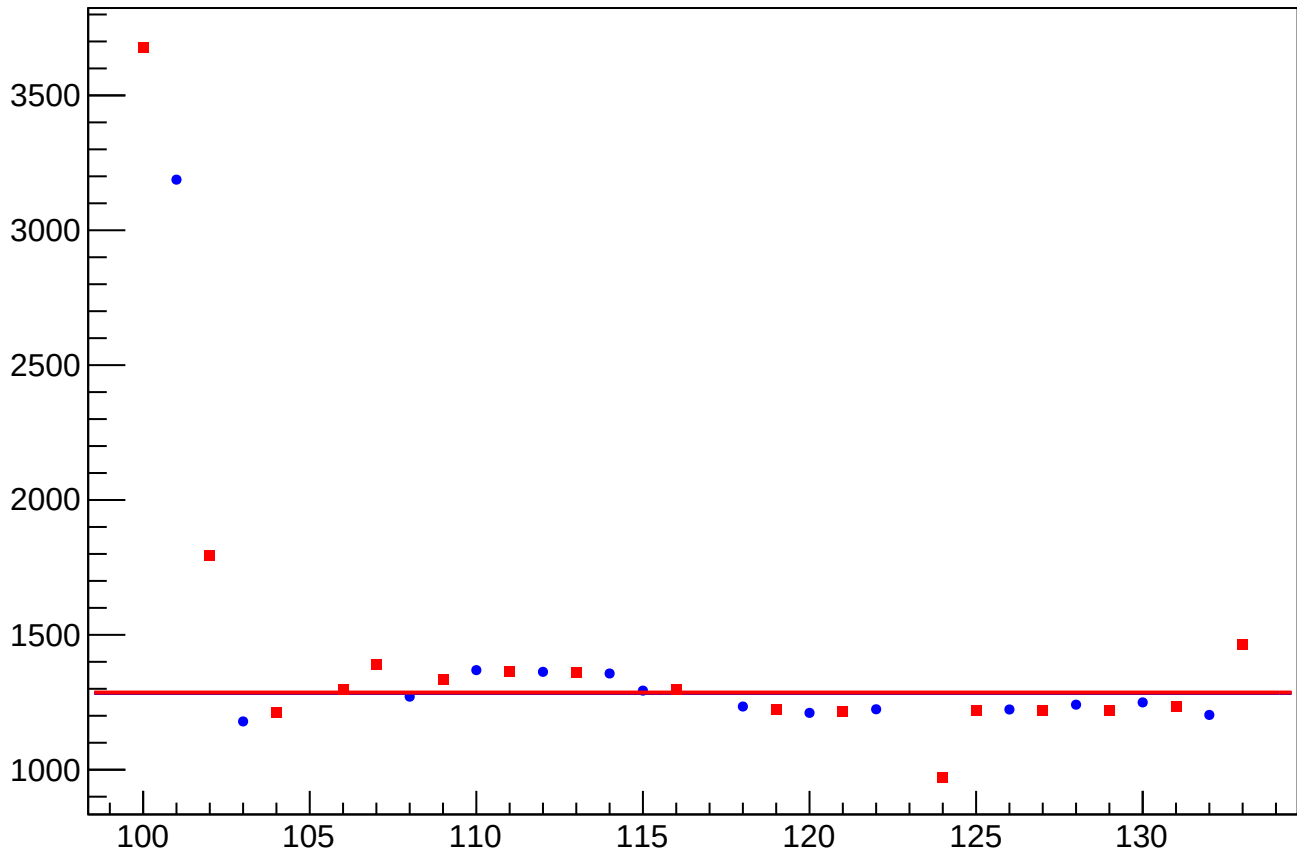
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -107.158+/-369.387  $\chi^2/\text{NDF}$ : 29.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1284.479+/-0.380  $\chi^2/\text{NDF}$ : 498185.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1286.078+/-0.359  $\chi^2/\text{NDF}$ : 208756.7/16

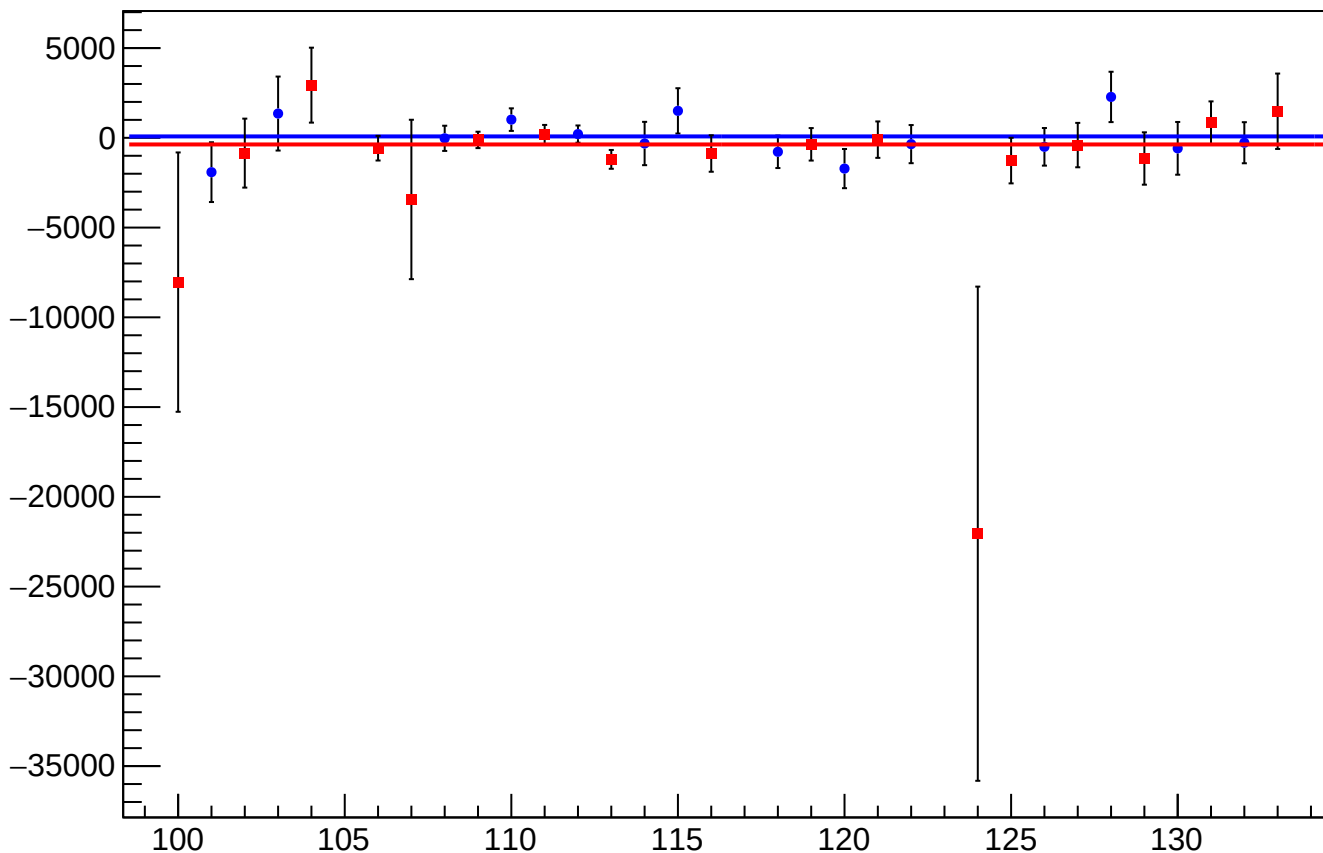
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1285.324+/-0.261  $\chi^2/\text{NDF}$ : 706951.6/30

- 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: 78.600 $\pm$ 246.870  $\chi^2$ /NDF: 12.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -369.221 $\pm$ 220.983  $\chi^2$ /NDF: 13.5/16

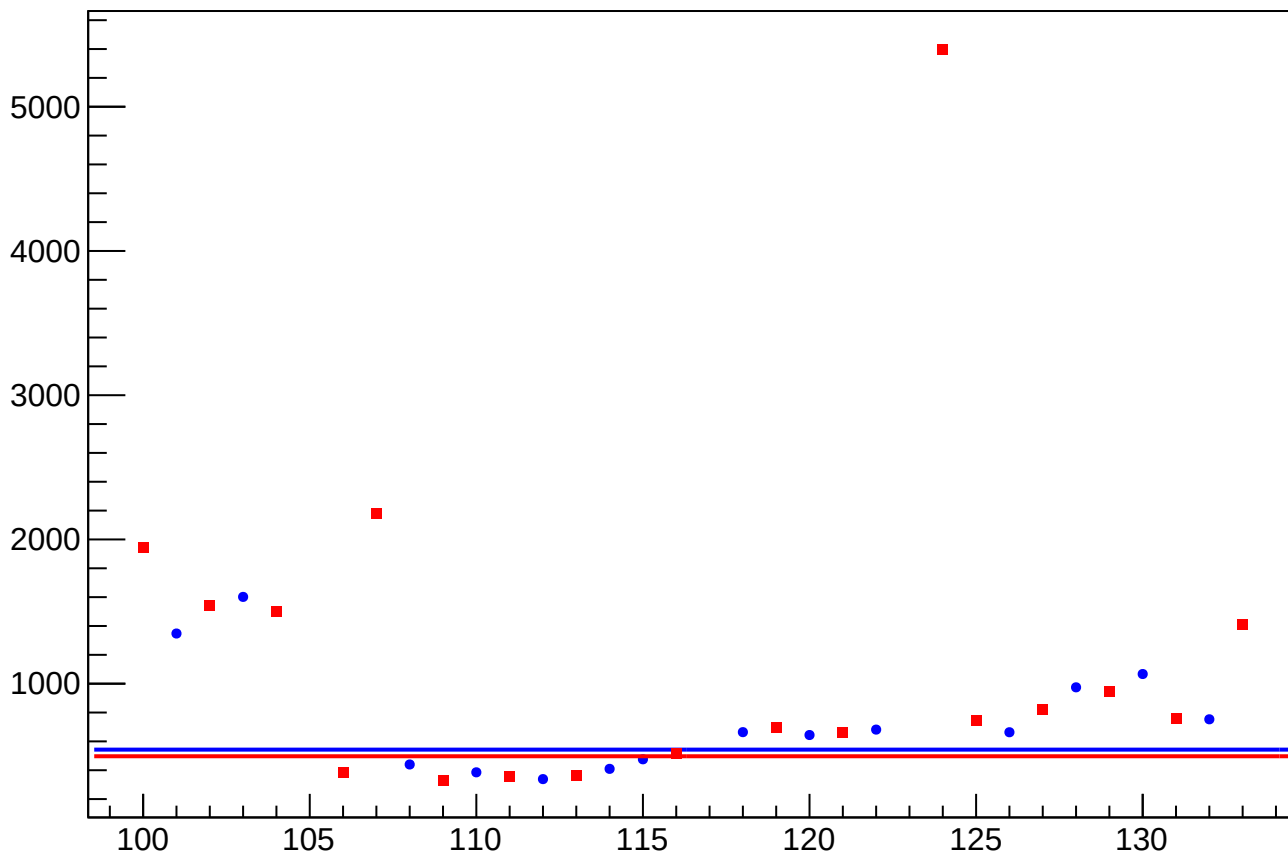
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -170.014 $\pm$ 164.653  $\chi^2$ /NDF: 27.7/30

- 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: 542.849+/-0.175  $\chi^2/\text{NDF}$ : 2182624.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 496.851+/-0.156  $\chi^2/\text{NDF}$ : 3304223.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

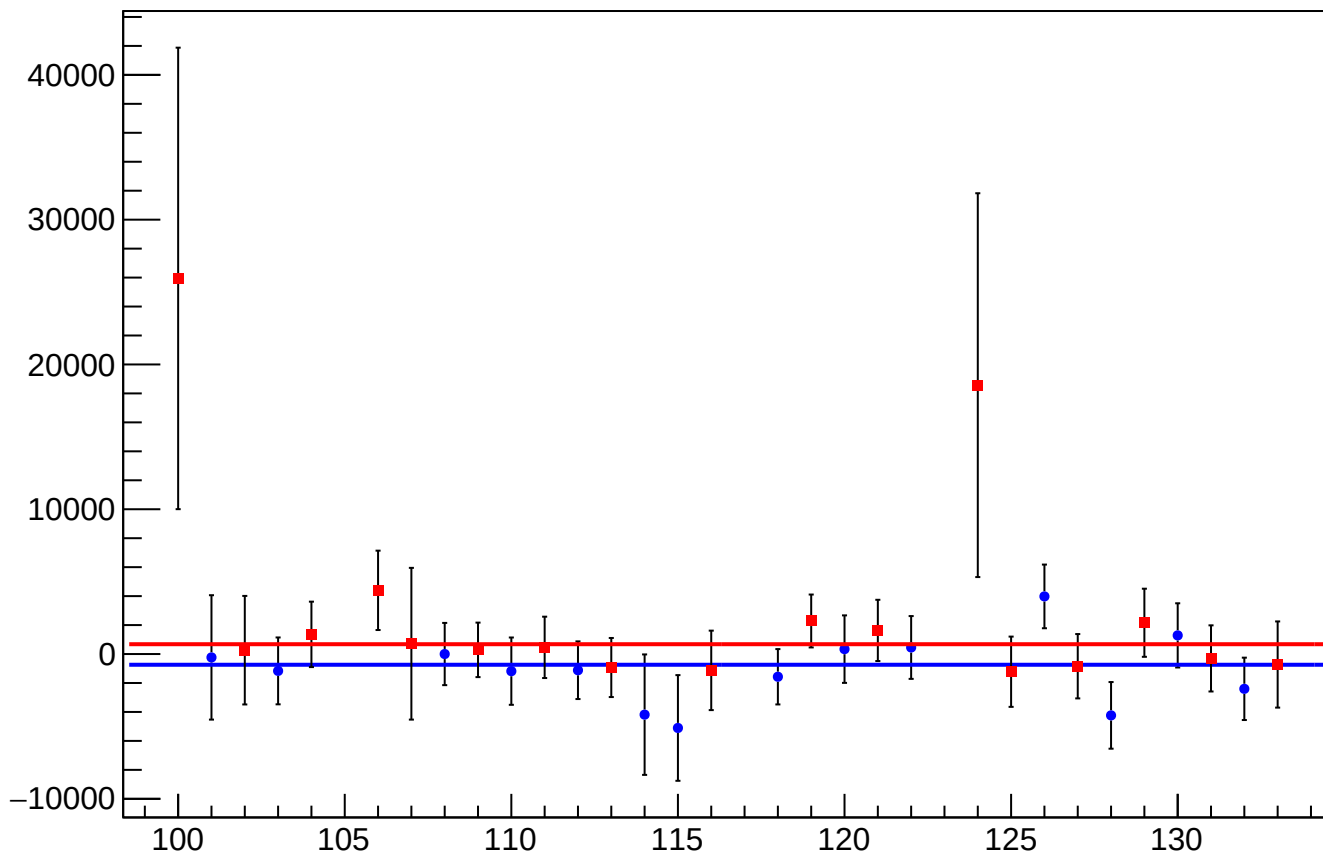
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 517.313+/-0.116  $\chi^2/\text{NDF}$ : 5525395.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -740.479+/-630.764  $\chi^2/\text{NDF}$ : 11.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 678.558+/-607.974  $\chi^2/\text{NDF}$ : 10.2/16

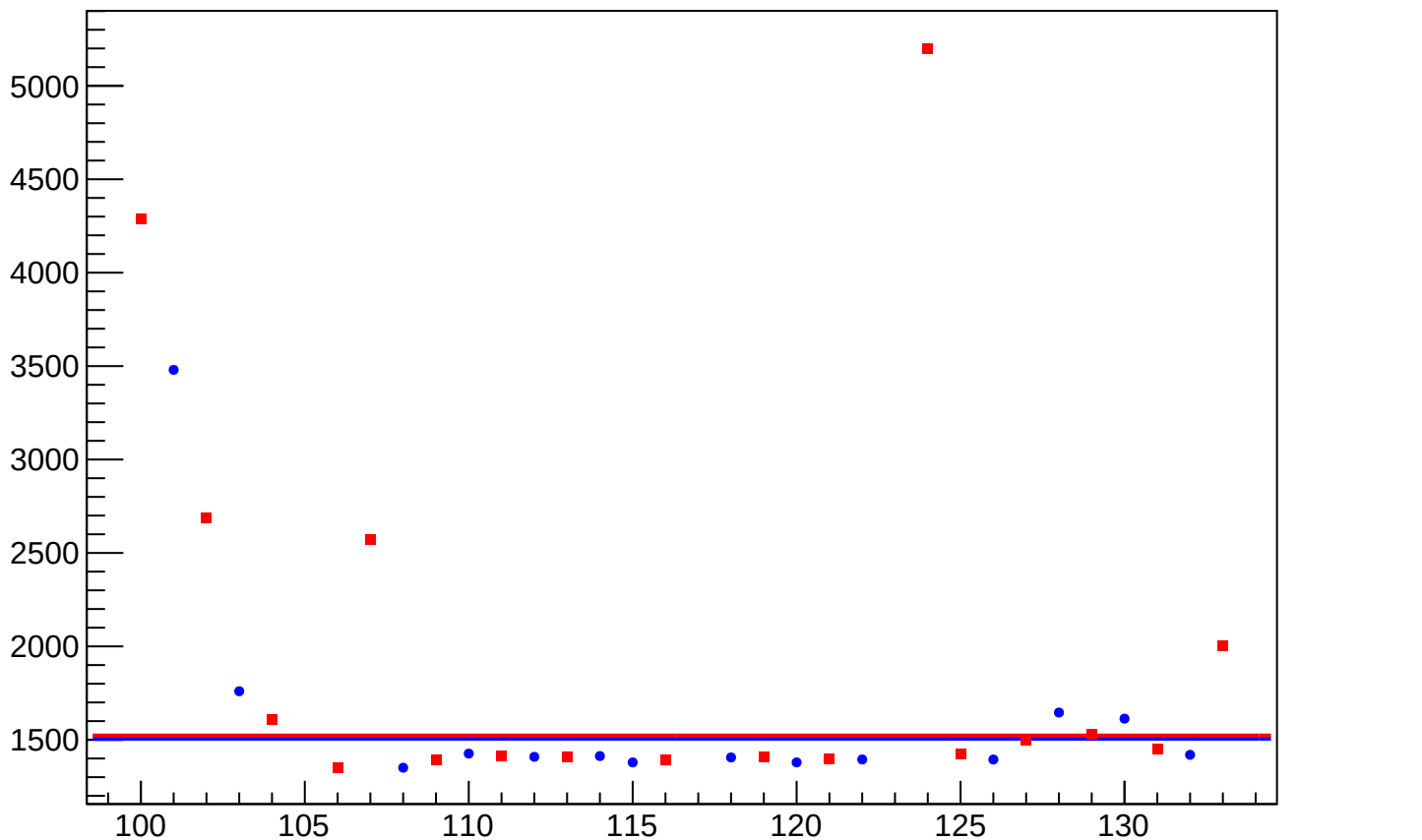
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.862+/-437.738  $\chi^2/\text{NDF}$ : 24.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1505.567+/-0.446  $\chi^2/\text{NDF}$ : 504605.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1523.038+/-0.430  $\chi^2/\text{NDF}$ : 594813.3/16

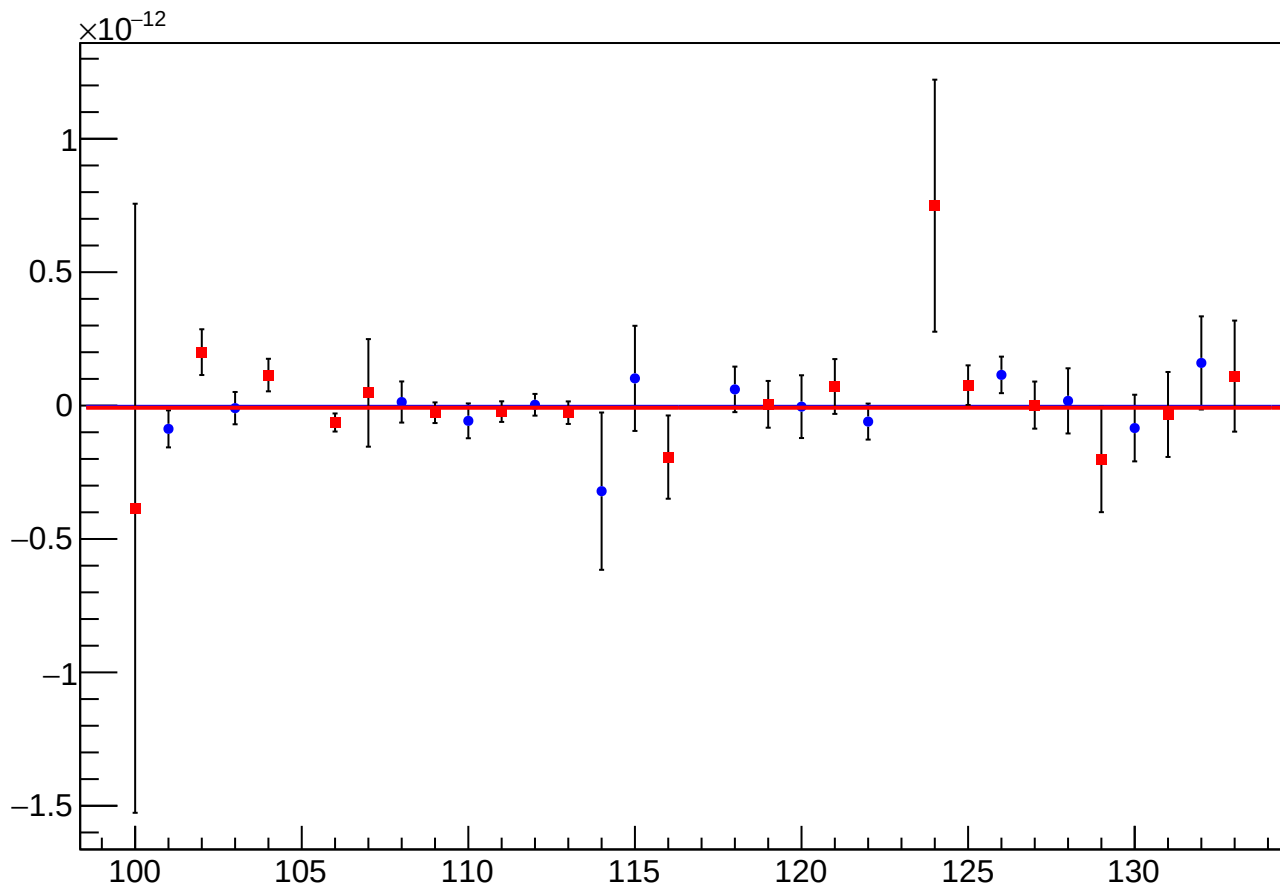
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1514.624+/-0.310  $\chi^2/\text{NDF}$ : 1100214.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.6/16

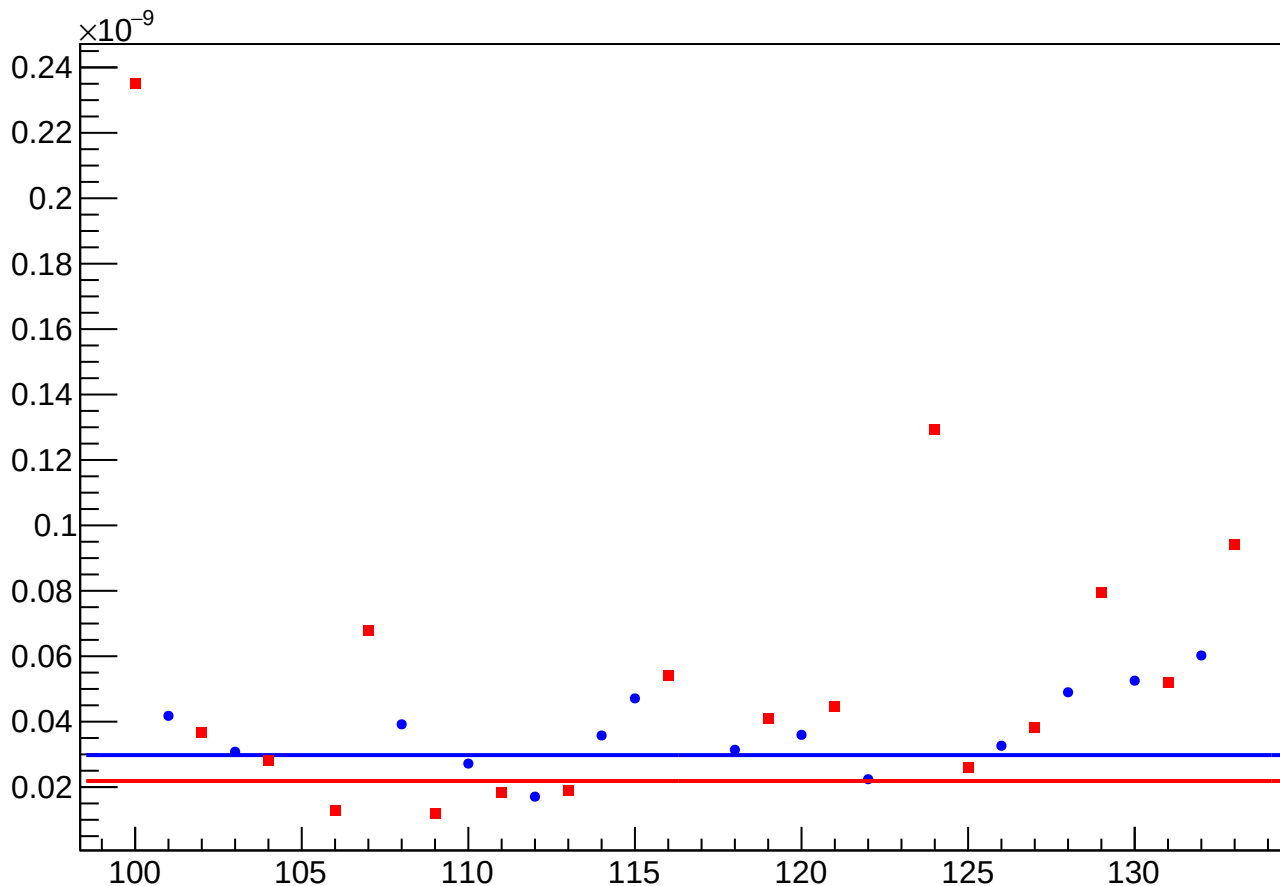
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 29.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 514795.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1500598.7/16

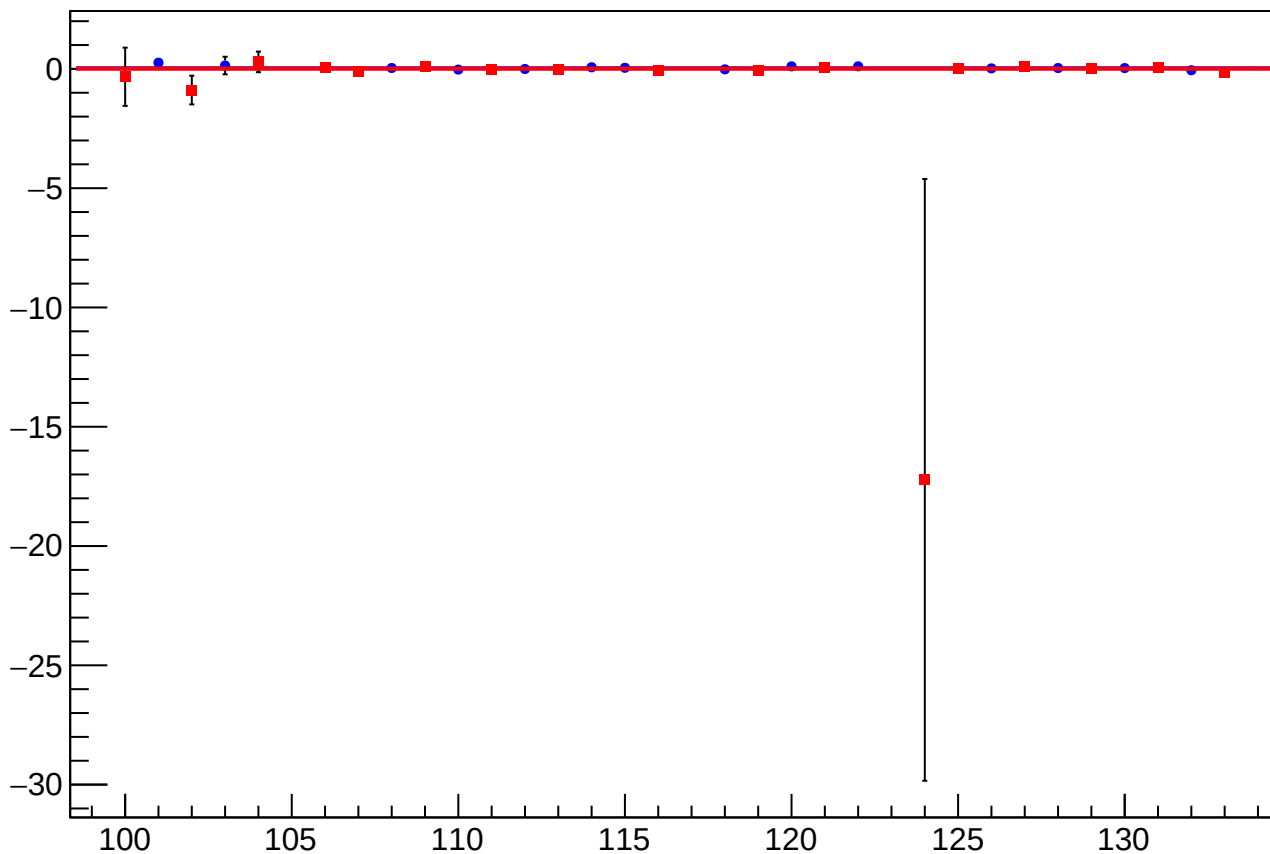
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2197431.5/30

- 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: 0.026+/-0.018  $\chi^2/\text{NDF}$ : 10.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.018  $\chi^2/\text{NDF}$ : 15.8/16

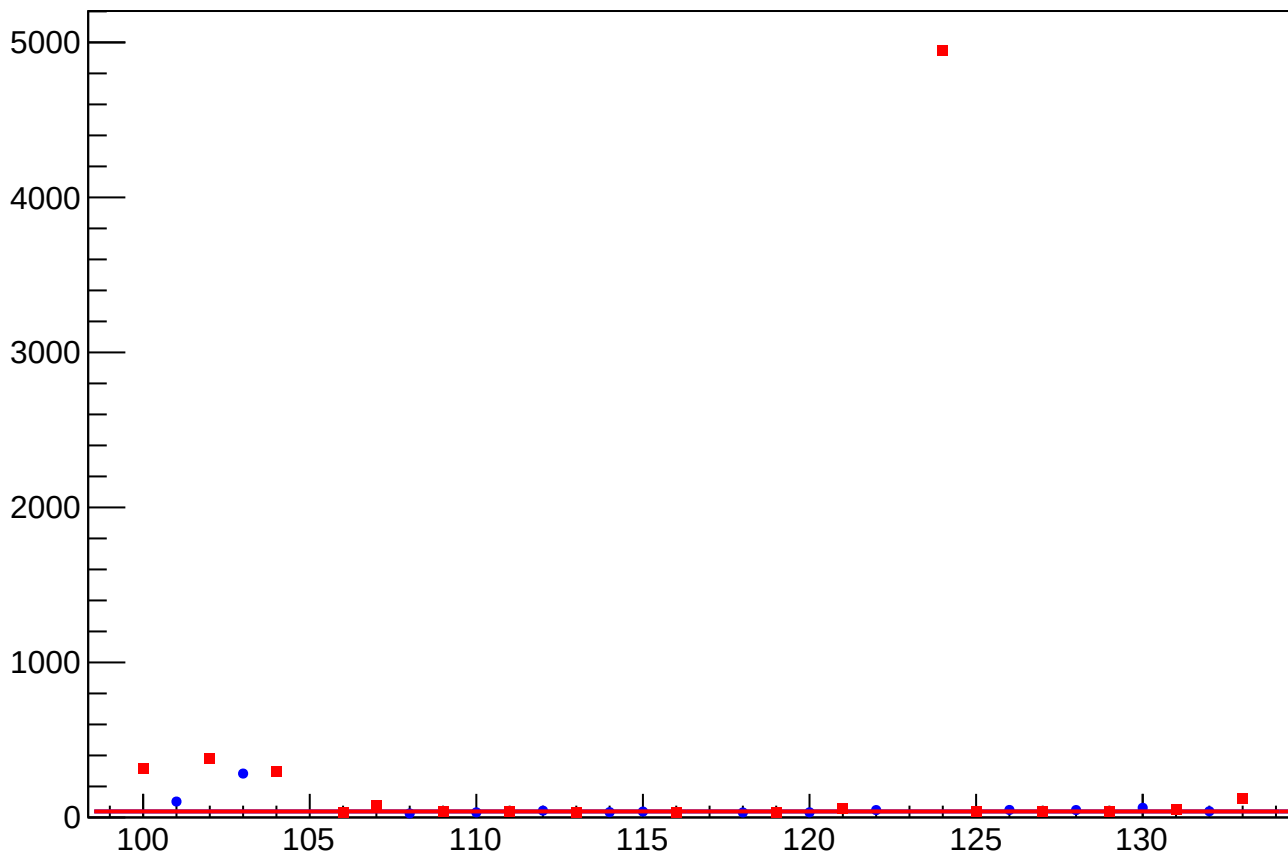
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.018+/-0.013  $\chi^2/\text{NDF}$ : 26.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 38.834+/-0.013  $\chi^2/\text{NDF}$ : 1826088.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38.919+/-0.013  $\chi^2/\text{NDF}$ : 2491876.4/16

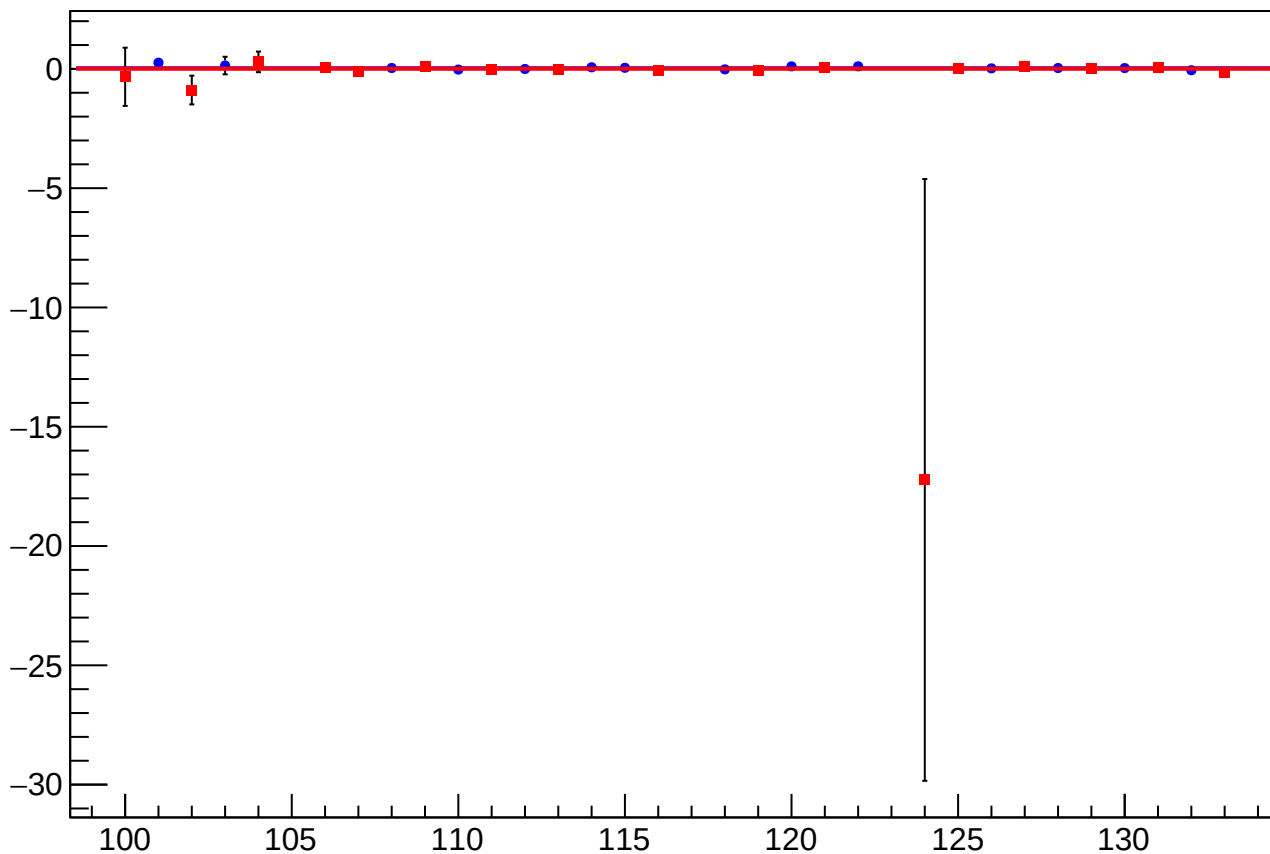
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.877+/-0.009  $\chi^2/\text{NDF}$ : 4317986.4/30

- 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: 0.026 $\pm$ 0.018  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.018  $\chi^2$ /NDF: 15.8/16

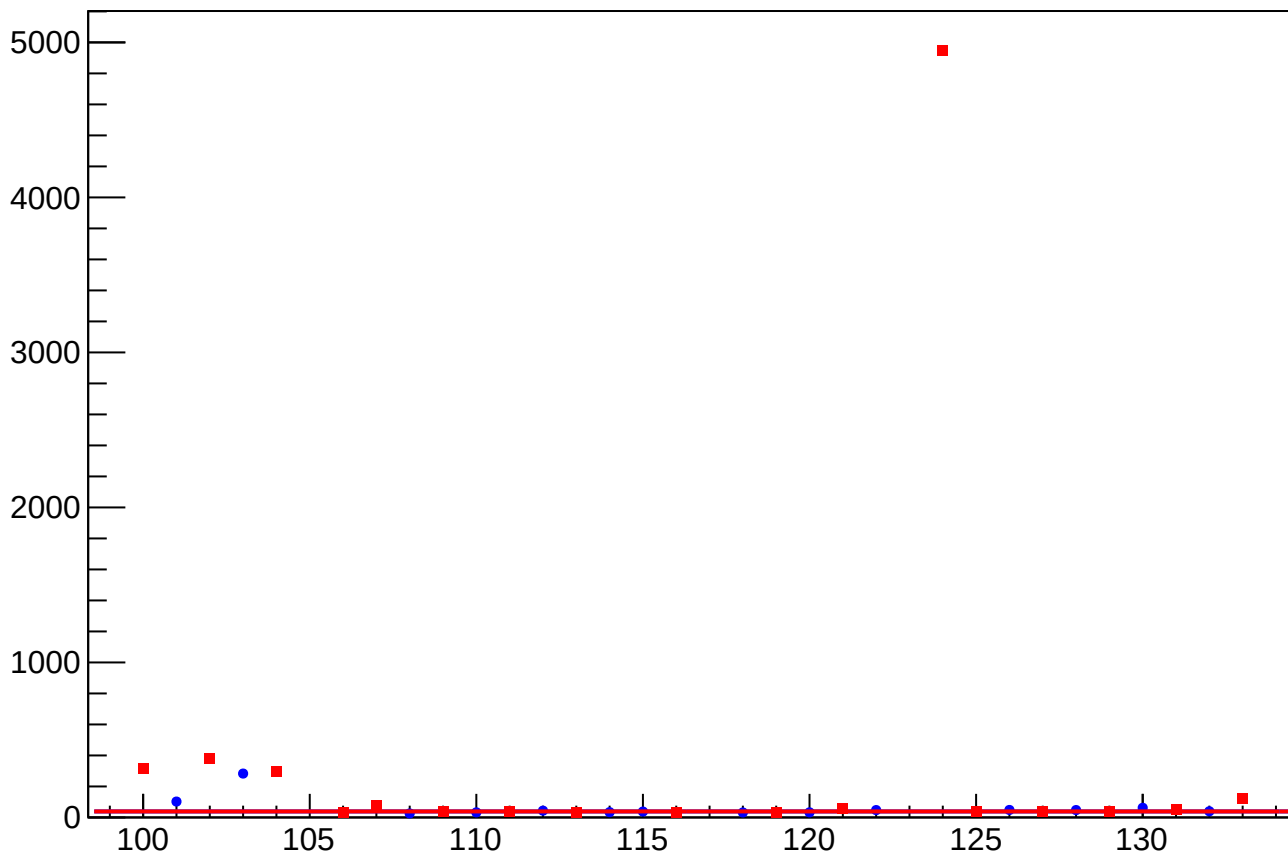
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.013  $\chi^2$ /NDF: 26.2/30

- 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: 38.834+/-0.013  $\chi^2/\text{NDF}$ : 1826088.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38.919+/-0.013  $\chi^2/\text{NDF}$ : 2491876.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

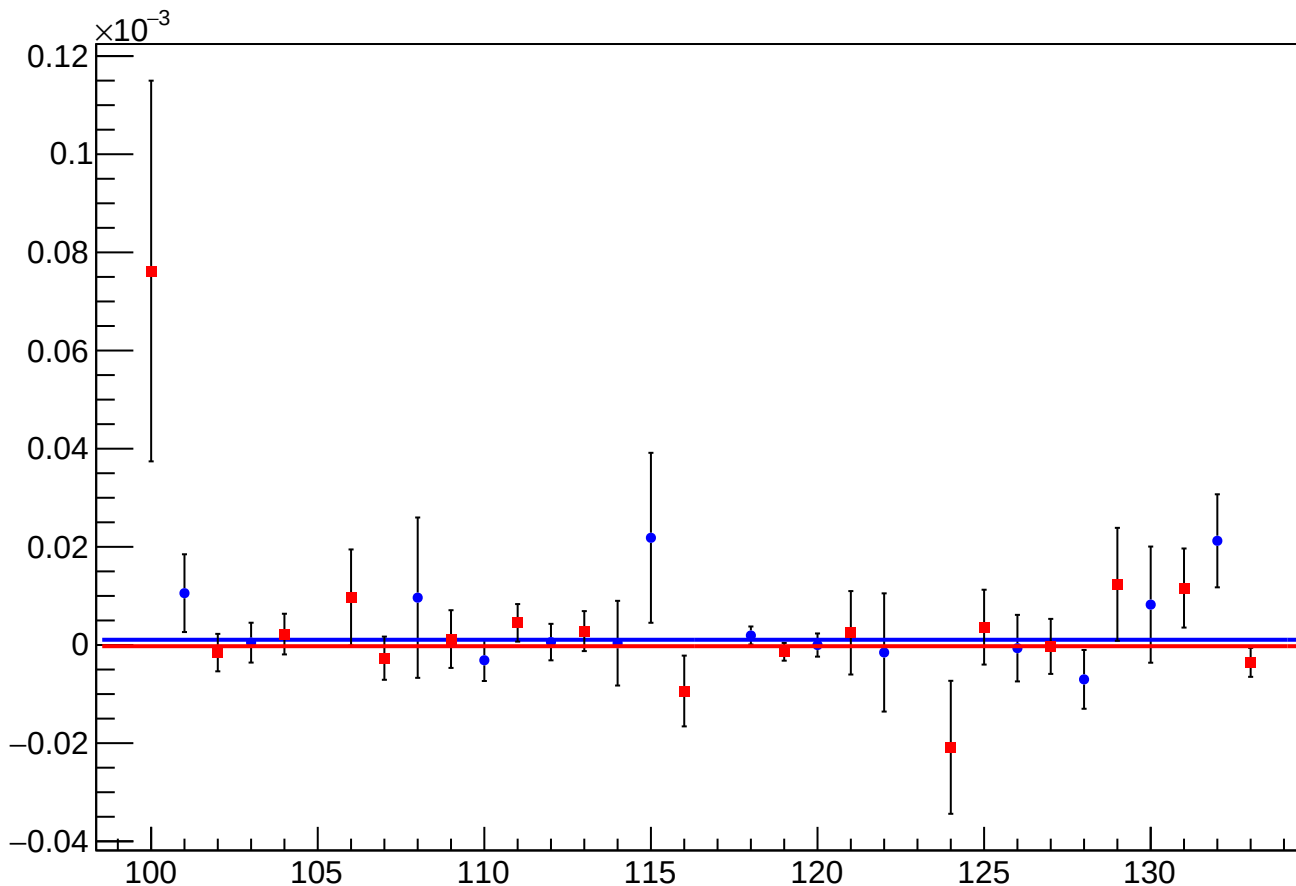
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.877+/-0.009  $\chi^2/\text{NDF}$ : 4317986.4/30

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.2/16

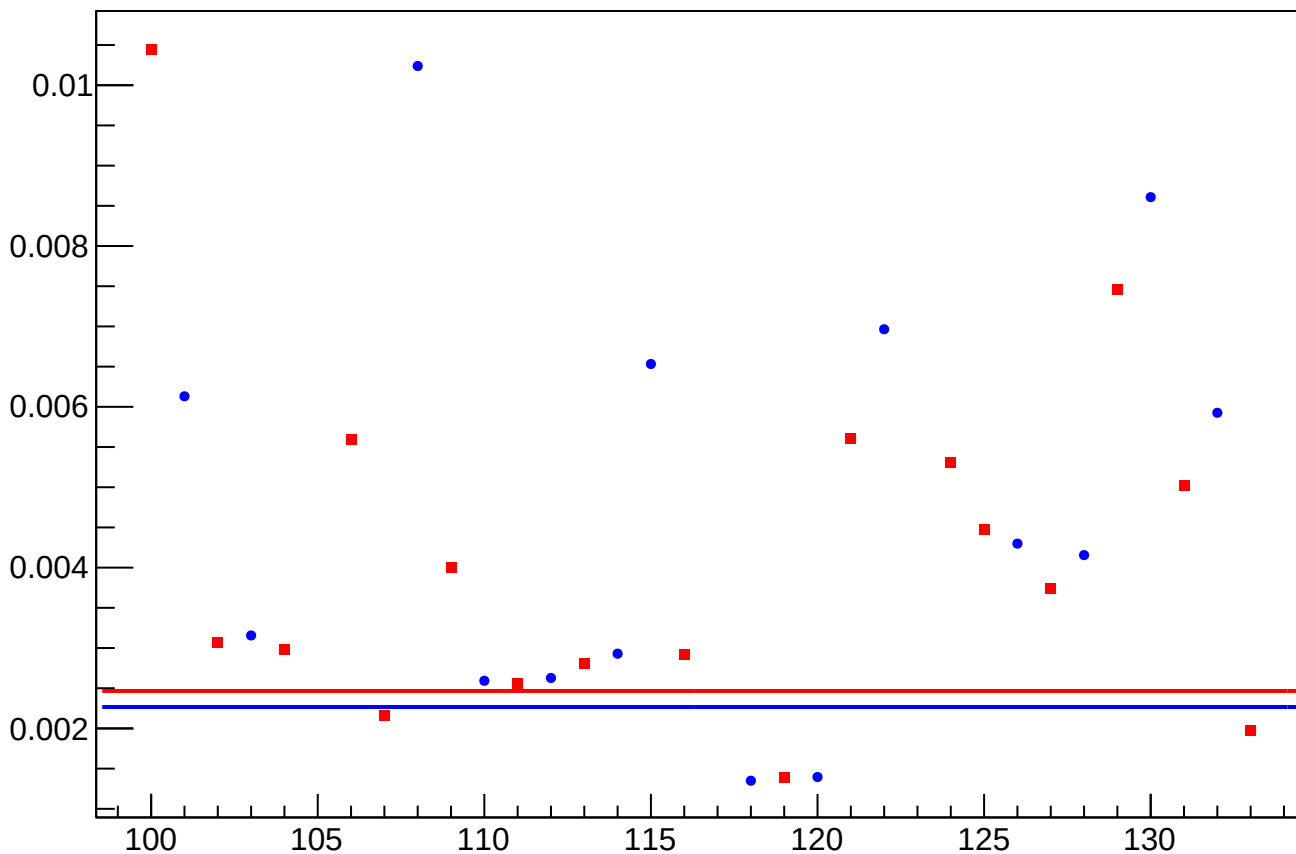
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 29.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3537923.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2481197.0/16

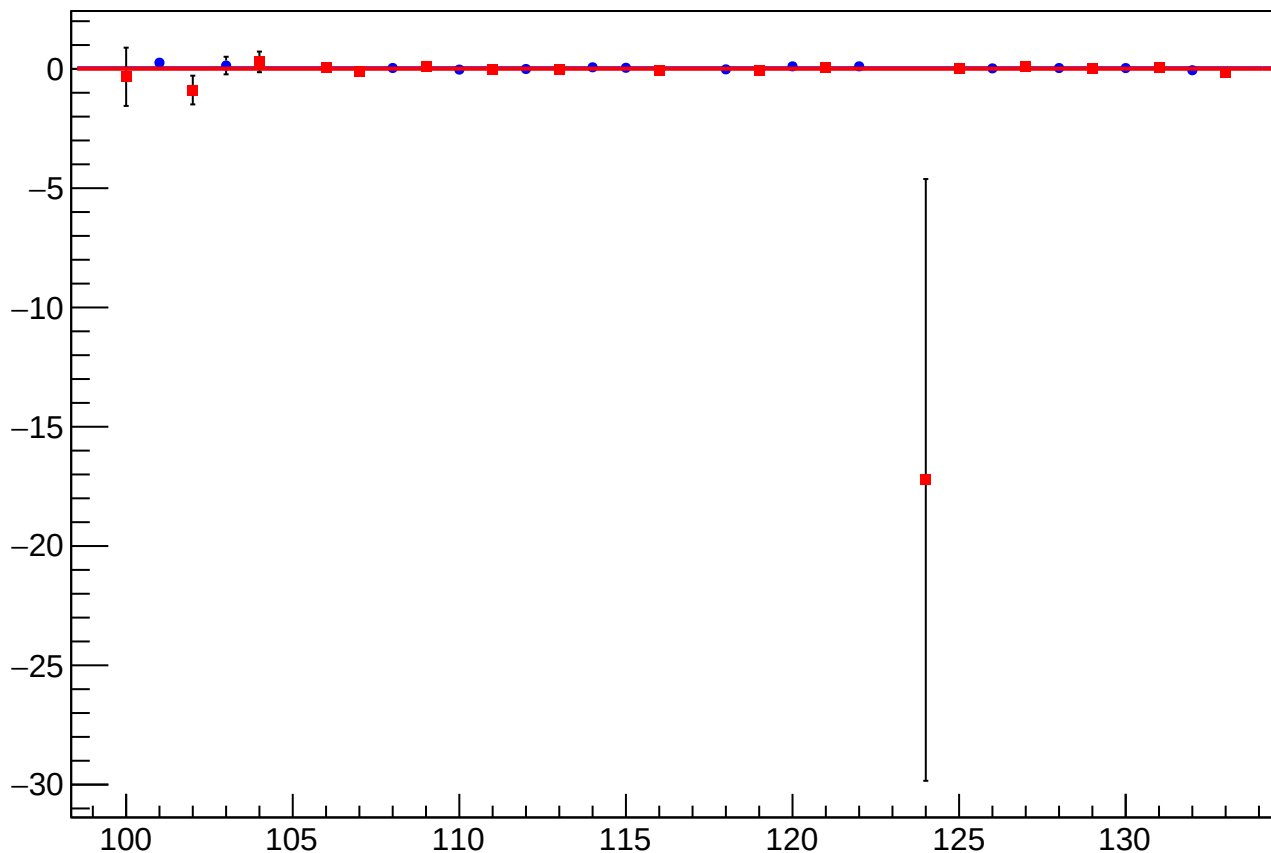
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 6051909.5/30

- 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: 0.026 $\pm$ 0.018  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.018  $\chi^2$ /NDF: 15.8/16

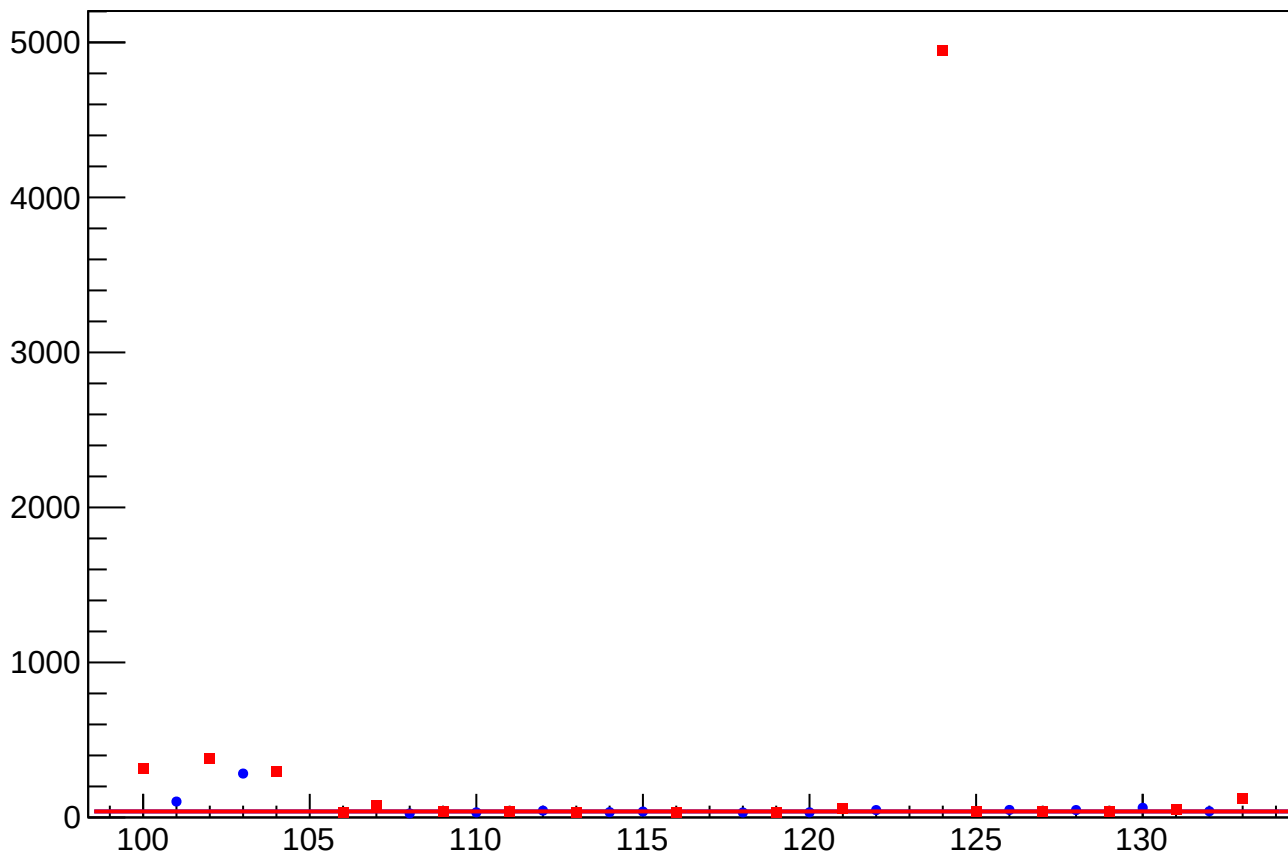
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.013  $\chi^2$ /NDF: 26.2/30

- 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:  $38.835 \pm 0.013$   $\chi^2/\text{NDF}: 1825946.4/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $38.919 \pm 0.013$   $\chi^2/\text{NDF}: 2491874.5/16$

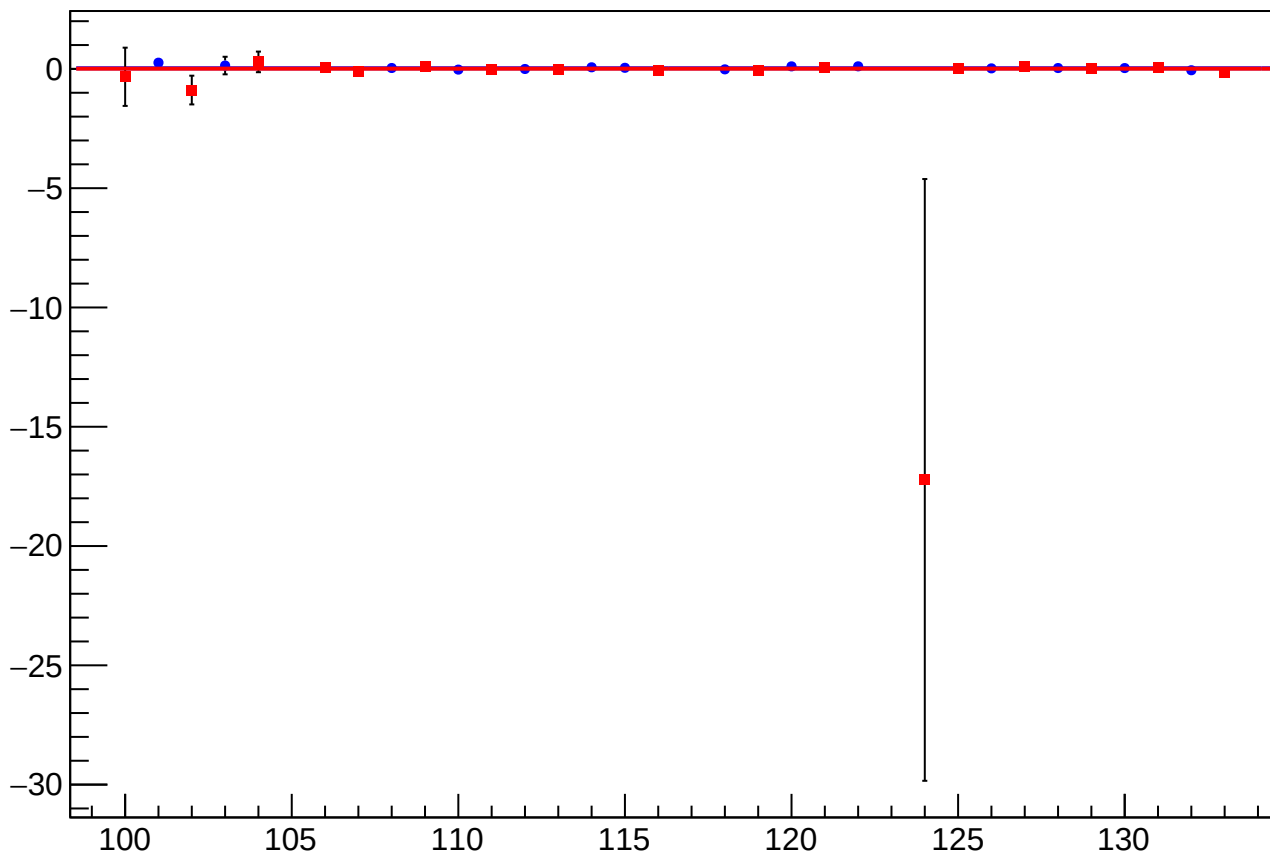
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $38.877 \pm 0.009$   $\chi^2/\text{NDF}: 4317842.2/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.026 $\pm$ 0.018  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.018  $\chi^2$ /NDF: 15.8/16

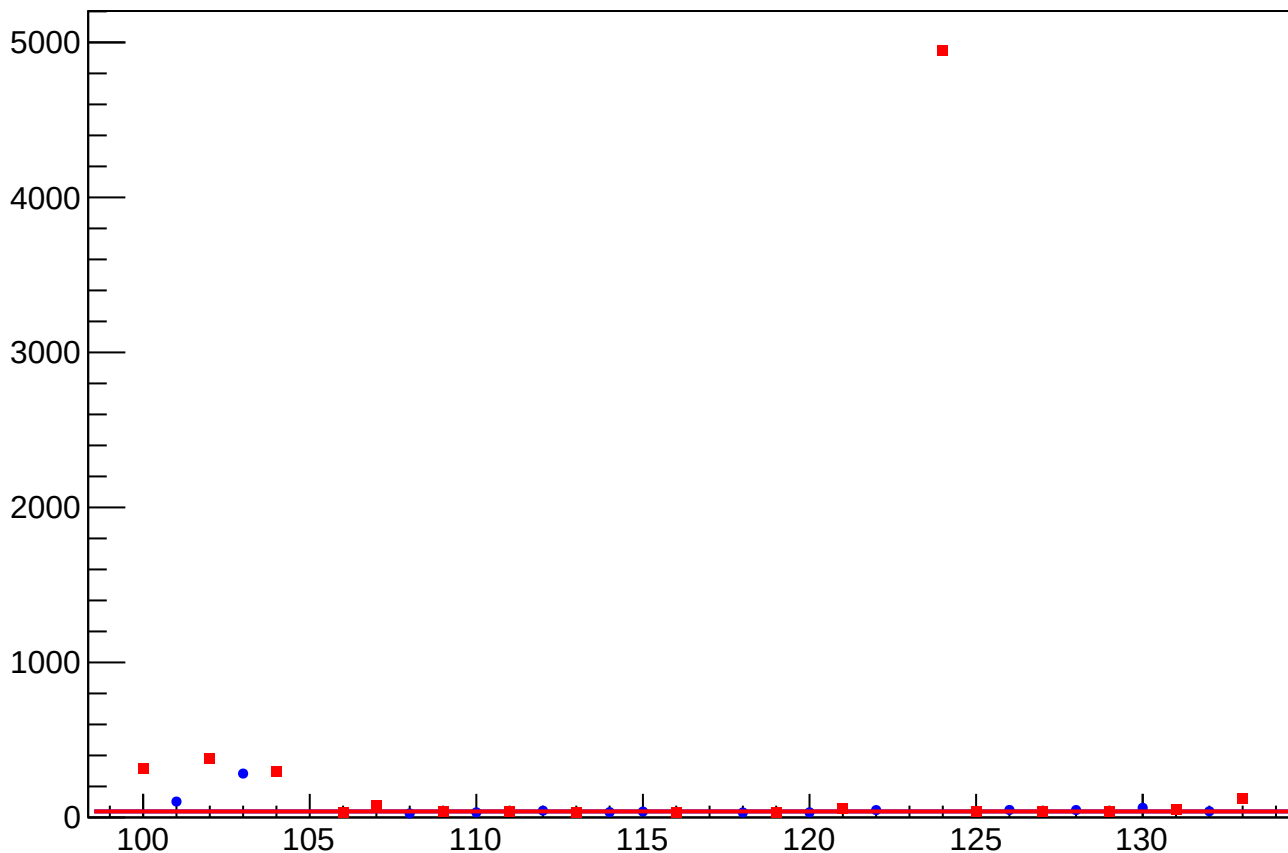
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.013  $\chi^2$ /NDF: 26.2/30

- 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: 38.835+/-0.013  $\chi^2/\text{NDF}$ : 1825946.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38.919+/-0.013  $\chi^2/\text{NDF}$ : 2491874.5/16

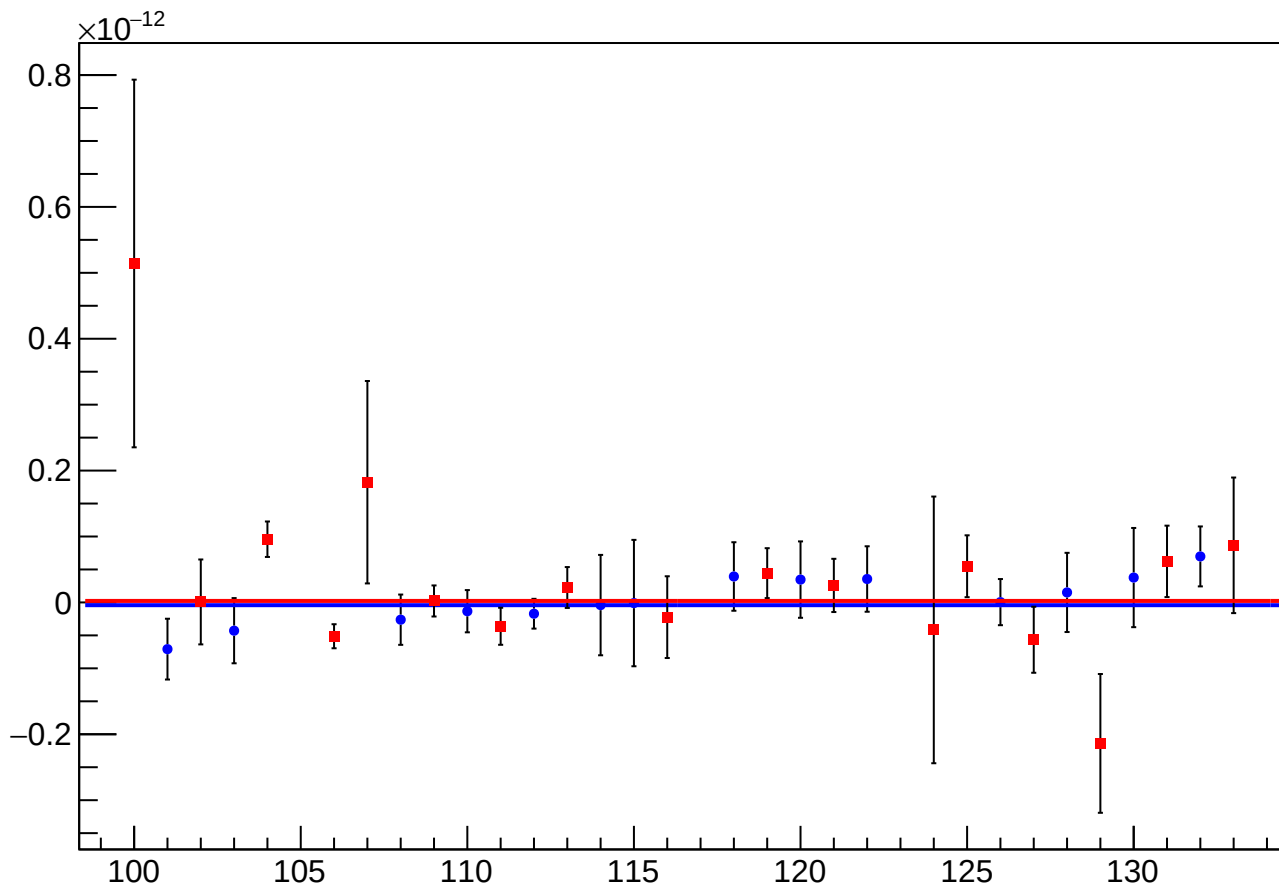
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.877+/-0.009  $\chi^2/\text{NDF}$ : 4317842.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38.3/16

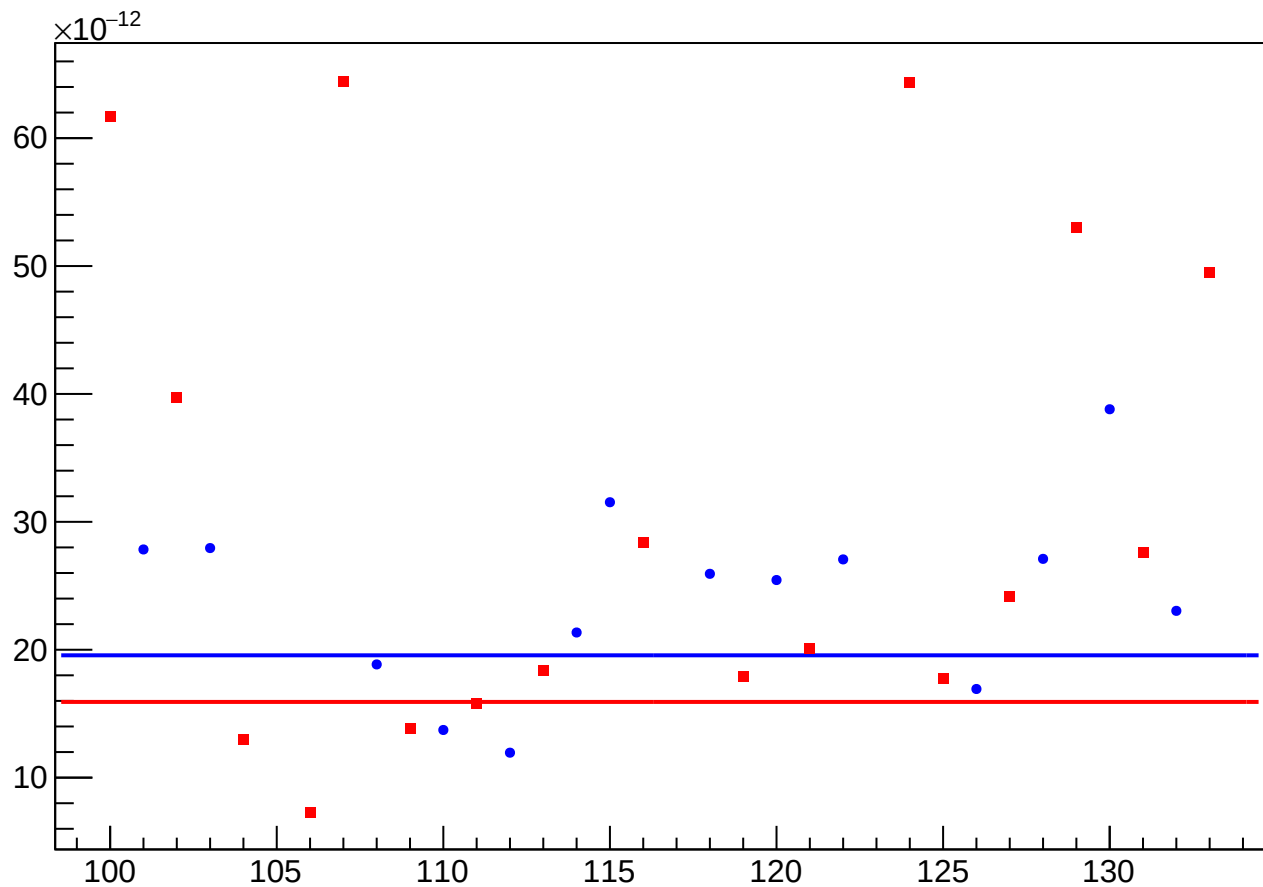
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 46.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 730175.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1865420.0/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

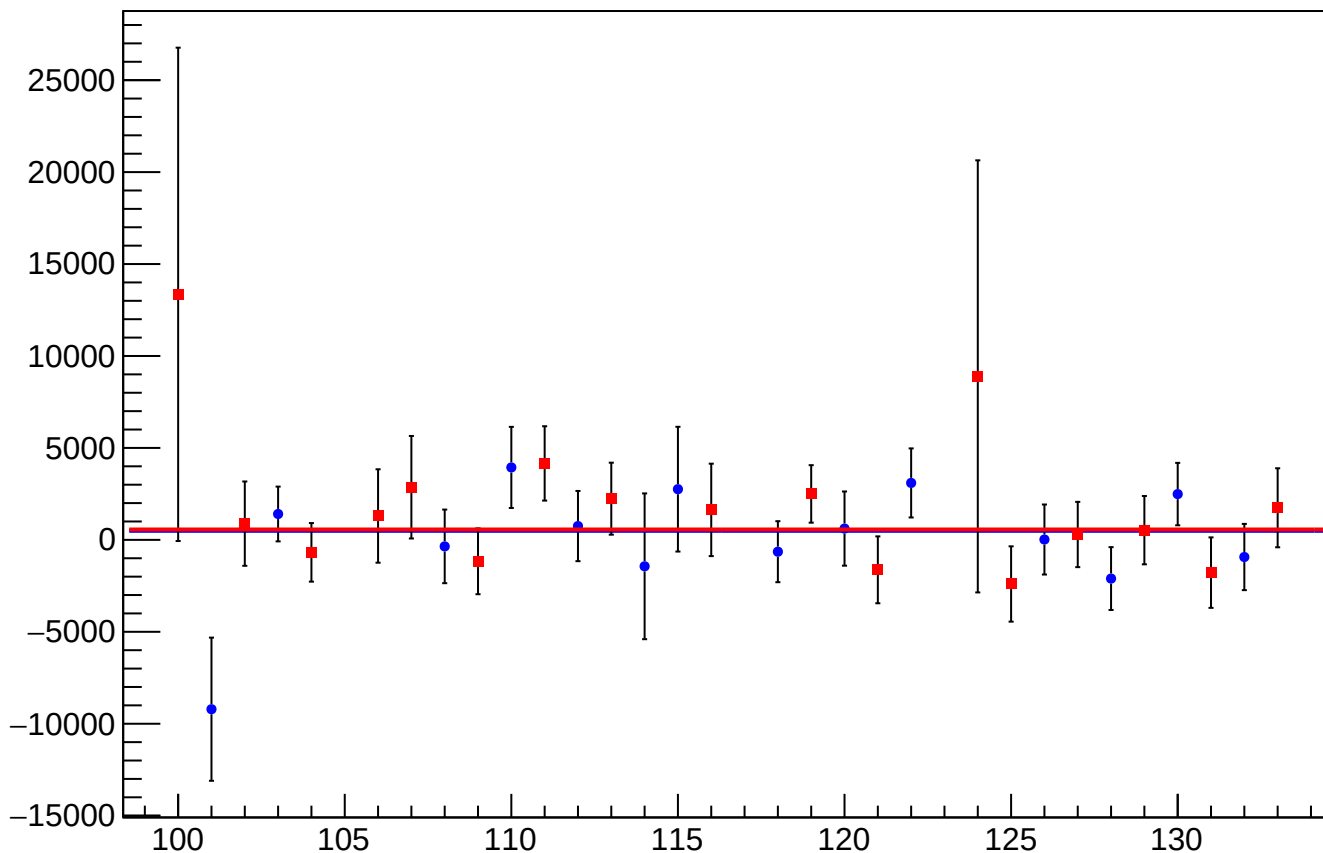
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2718378.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 493.453+/-529.749  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 564.036+/-506.210  $\chi^2/\text{NDF}$ : 14.7/16

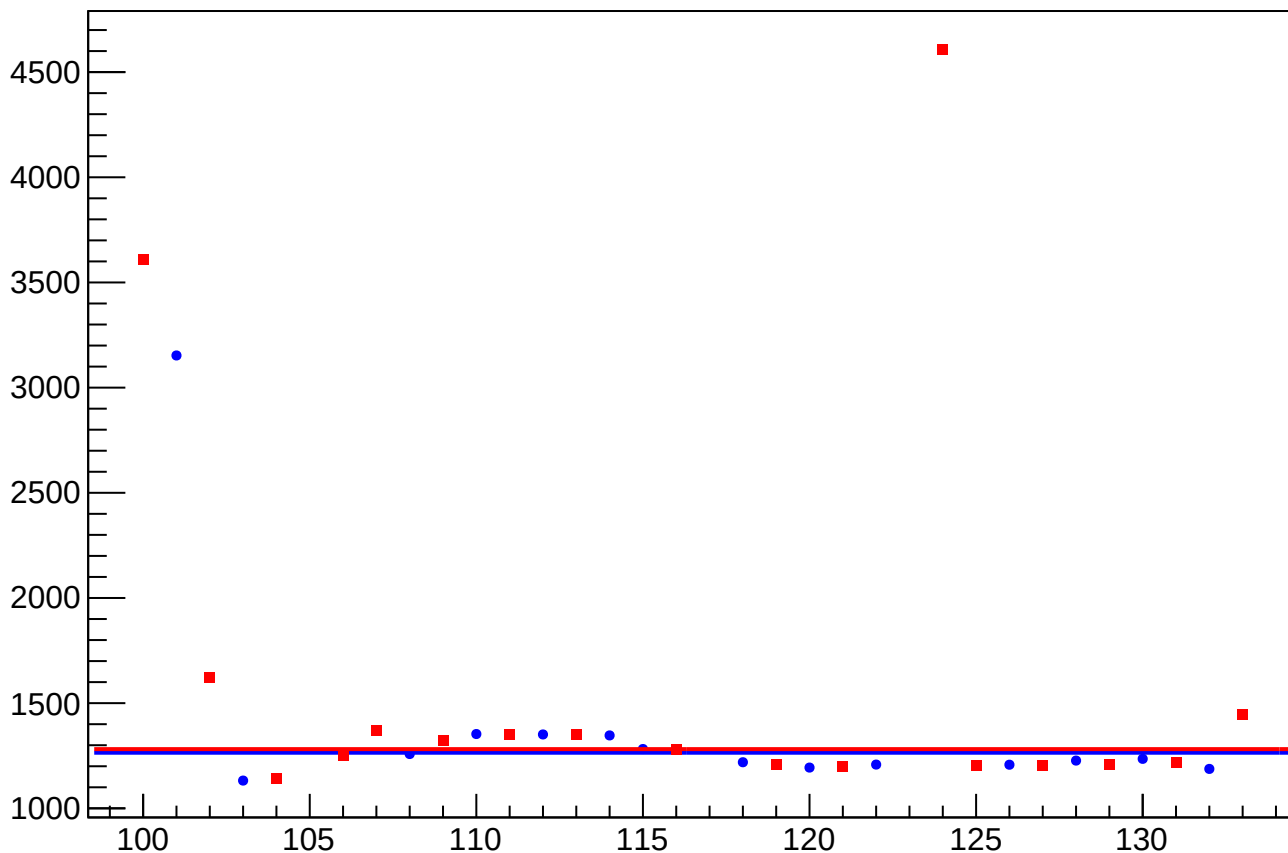
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 530.347+/-365.983  $\chi^2/\text{NDF}$ : 31.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1264.376 $\pm$ 0.375  $\chi^2$ /NDF: 507494.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1281.473 $\pm$ 0.358  $\chi^2$ /NDF: 321826.6/16

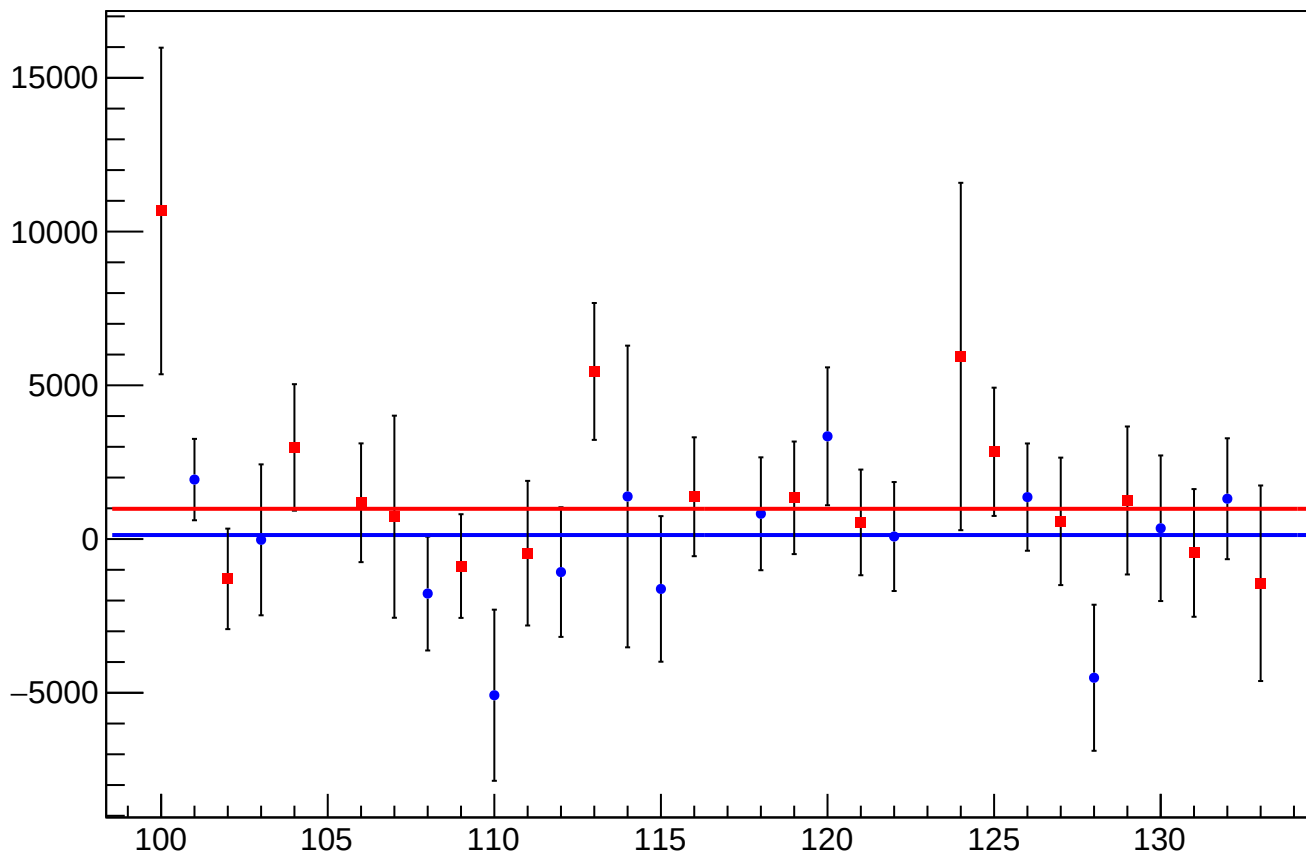
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1273.313 $\pm$ 0.259  $\chi^2$ /NDF: 830409.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_reg\_correction\_mean vs Slug



Right In: 130.622 $\pm$ 545.585  $\chi^2$ /NDF: 14.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 983.684 $\pm$ 523.898  $\chi^2$ /NDF: 14.7/16

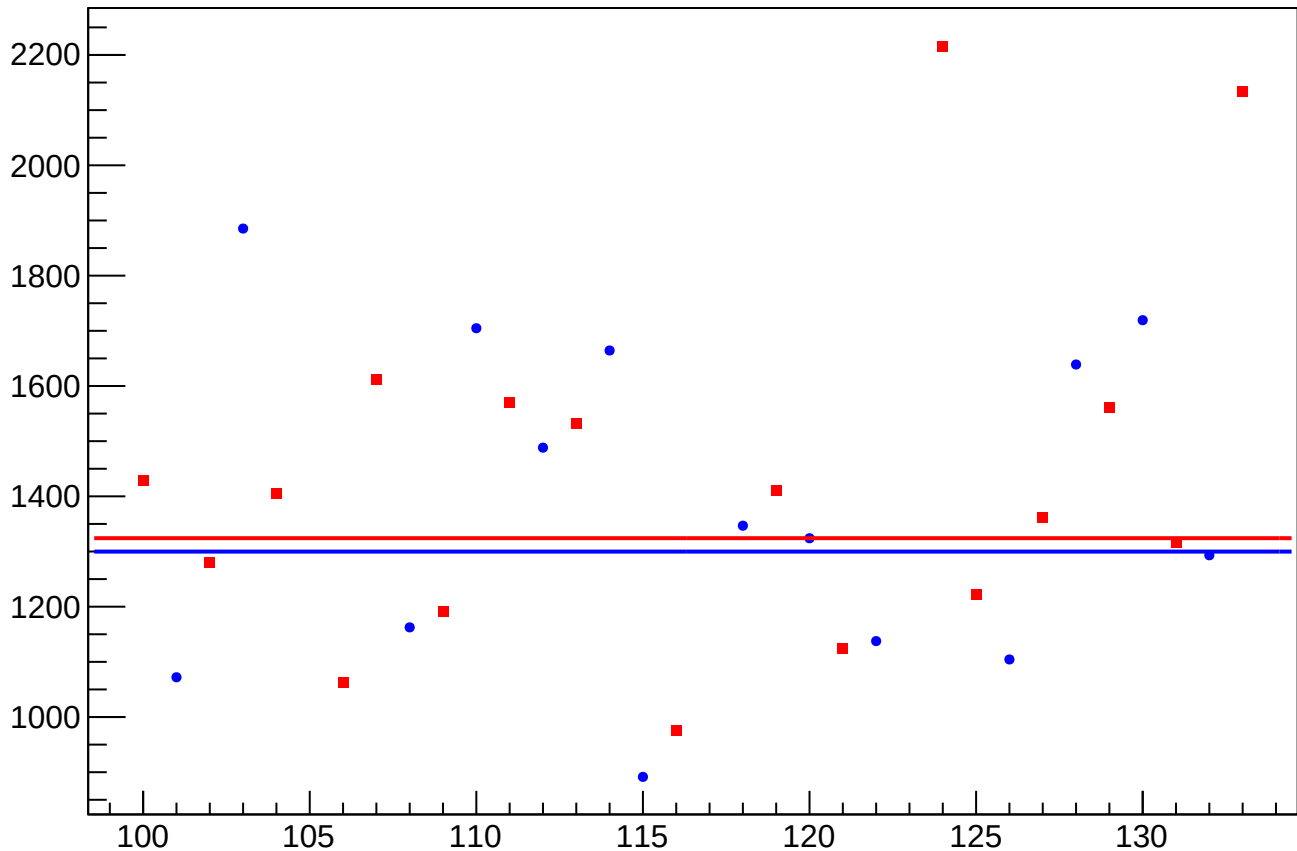
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 574.444 $\pm$ 377.886  $\chi^2$ /NDF: 30.2/30

- 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: 1299.877+/-0.386  $\chi^2/\text{NDF}$ : 459873.1/13

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

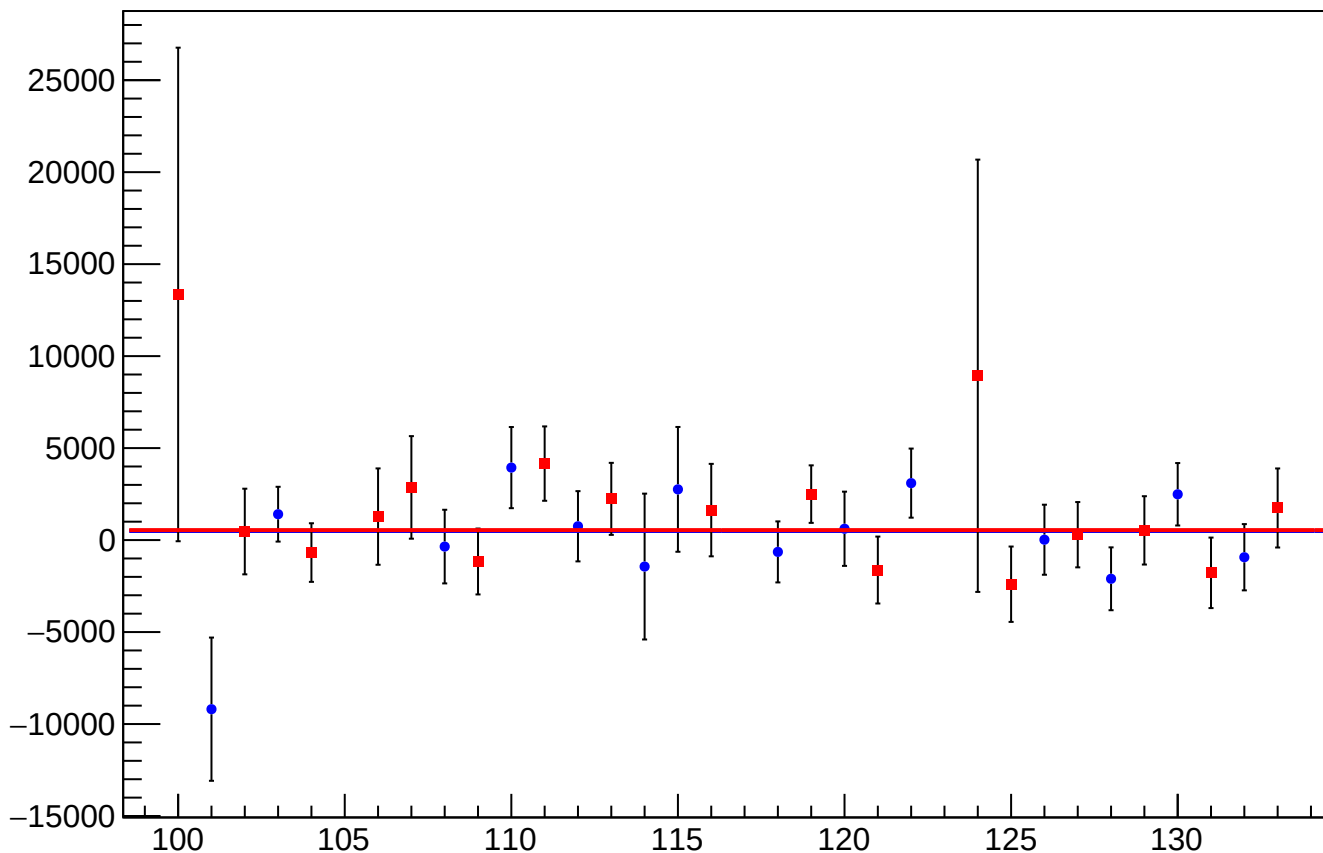
Right Out: 1324.151+/-0.370  $\chi^2/\text{NDF}$ : 409822.5/16

All: 1312.506+/-0.267  $\chi^2/\text{NDF}$ : 871755.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 493.780+/-529.749  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 541.482+/-507.165  $\chi^2/\text{NDF}$ : 14.7/16

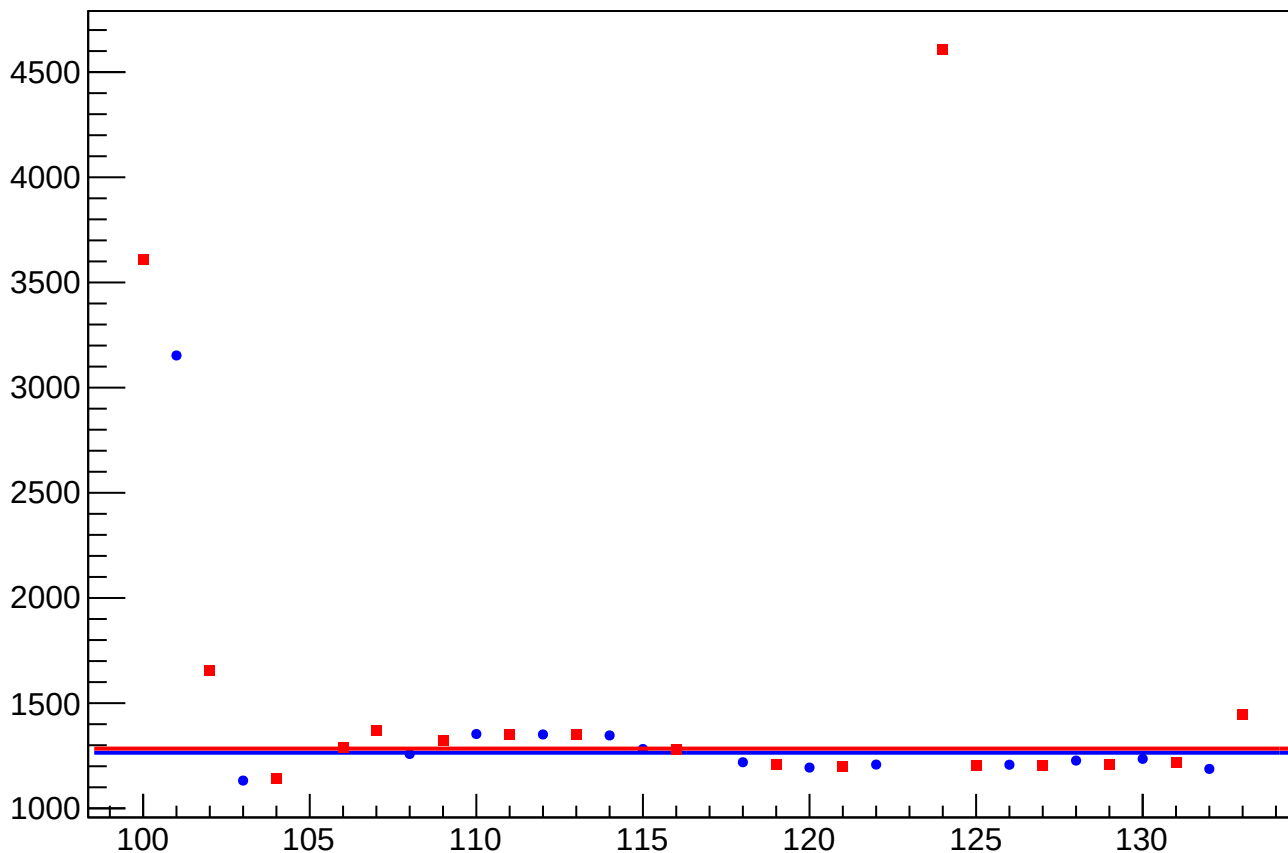
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 518.670+/-366.344  $\chi^2/\text{NDF}$ : 31.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1264.375 $\pm$ 0.375  $\chi^2$ /NDF: 507495.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1284.011 $\pm$ 0.359  $\chi^2$ /NDF: 328513.3/16

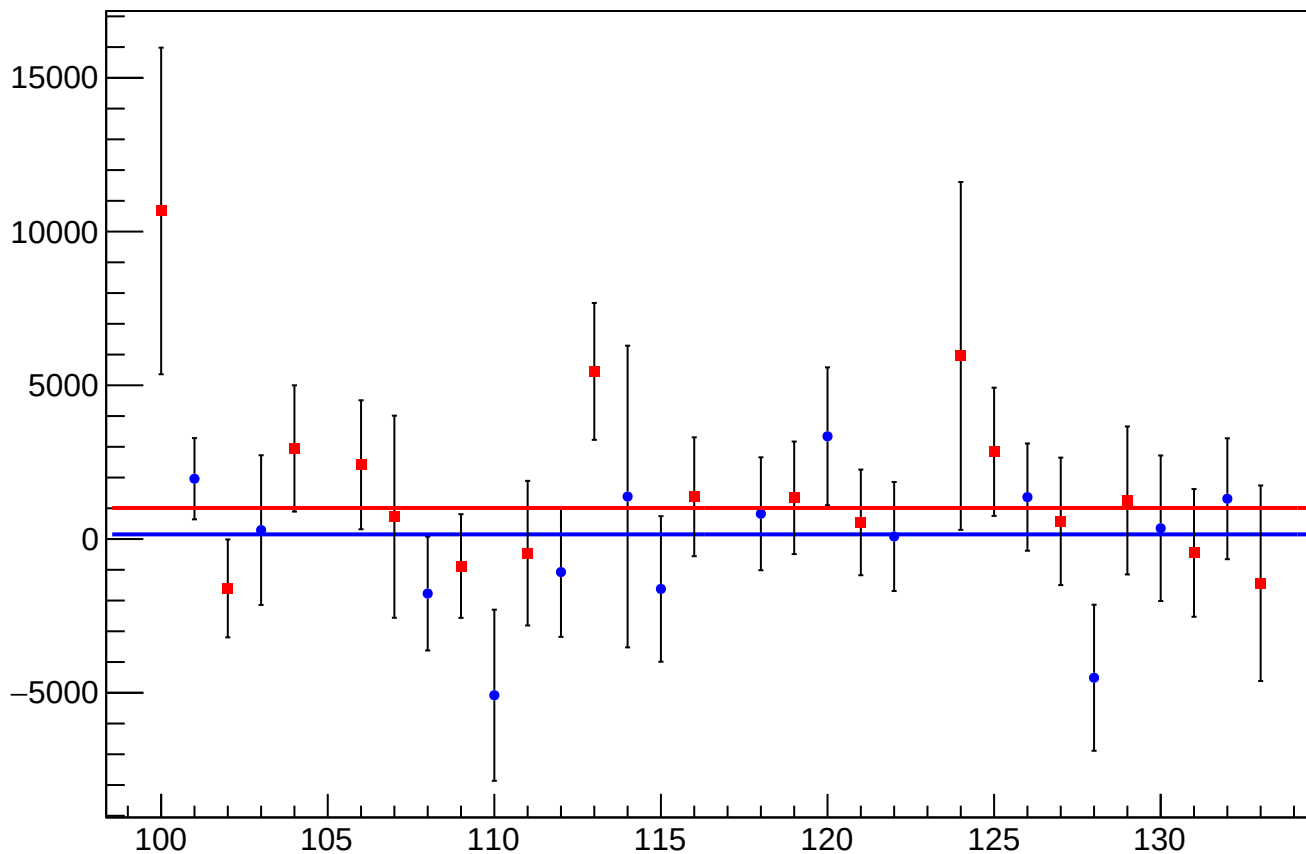
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1274.621 $\pm$ 0.259  $\chi^2$ /NDF: 837442.6/30

- 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: 151.977 $\pm$ 545.213  $\chi^2$ /NDF: 14.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1010.941 $\pm$ 525.345  $\chi^2$ /NDF: 15.8/16

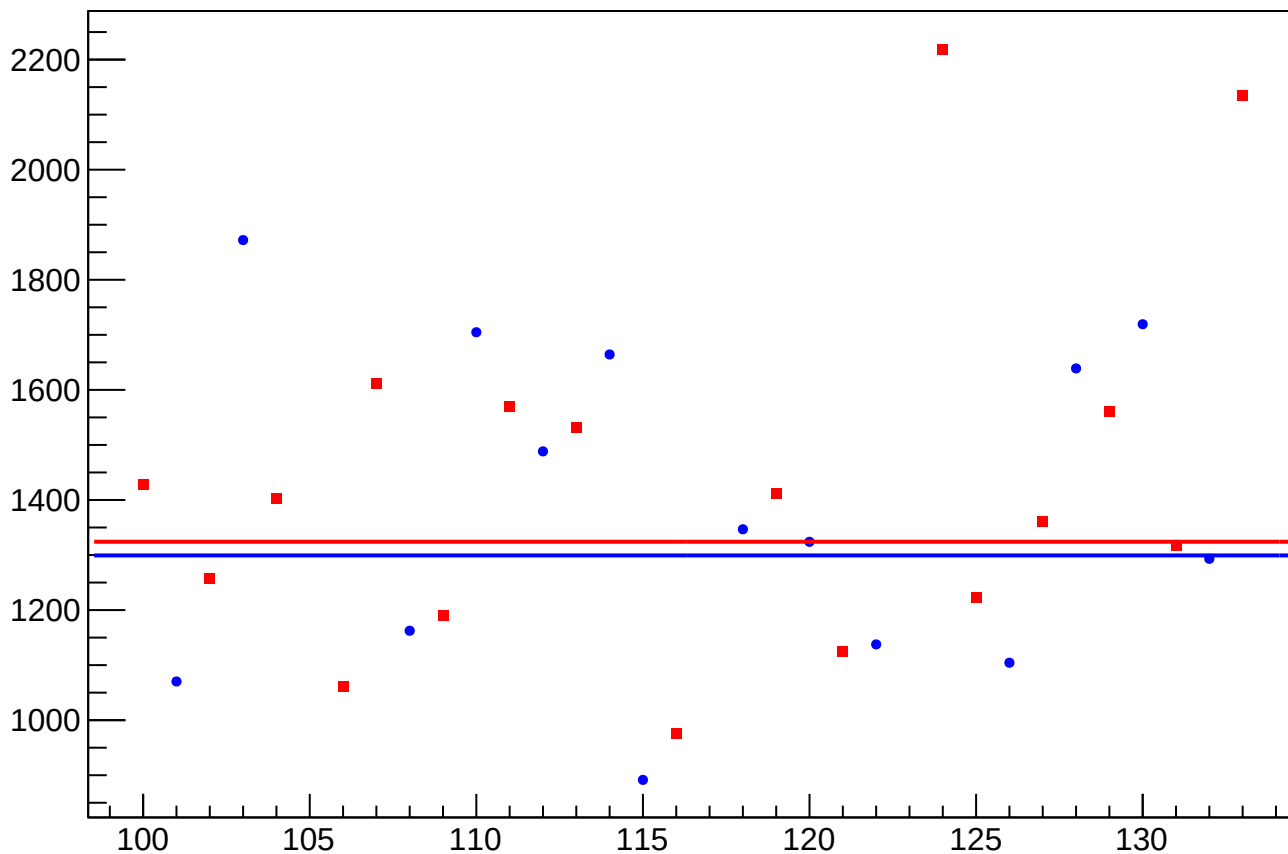
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 597.395 $\pm$ 378.304  $\chi^2$ /NDF: 31.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_cor\_correction\_rms vs Slug



Right In: 1299.268+/-0.386  $\chi^2/\text{NDF}$ : 457723.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1324.171+/-0.371  $\chi^2/\text{NDF}$ : 406955.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

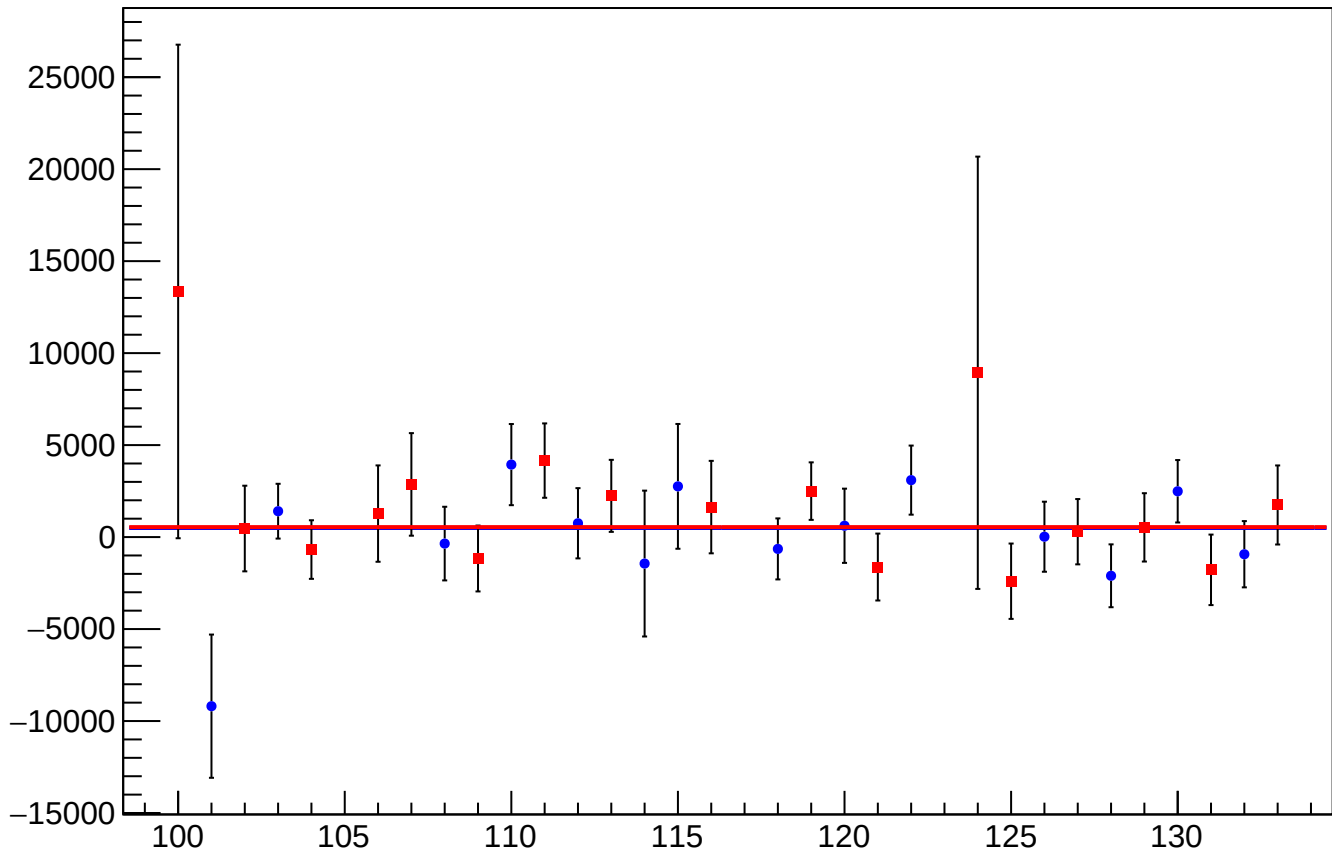
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1312.181+/-0.268  $\chi^2/\text{NDF}$ : 866841.9/30

- 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: 493.780+/-529.749  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 541.482+/-507.165  $\chi^2/\text{NDF}$ : 14.7/16

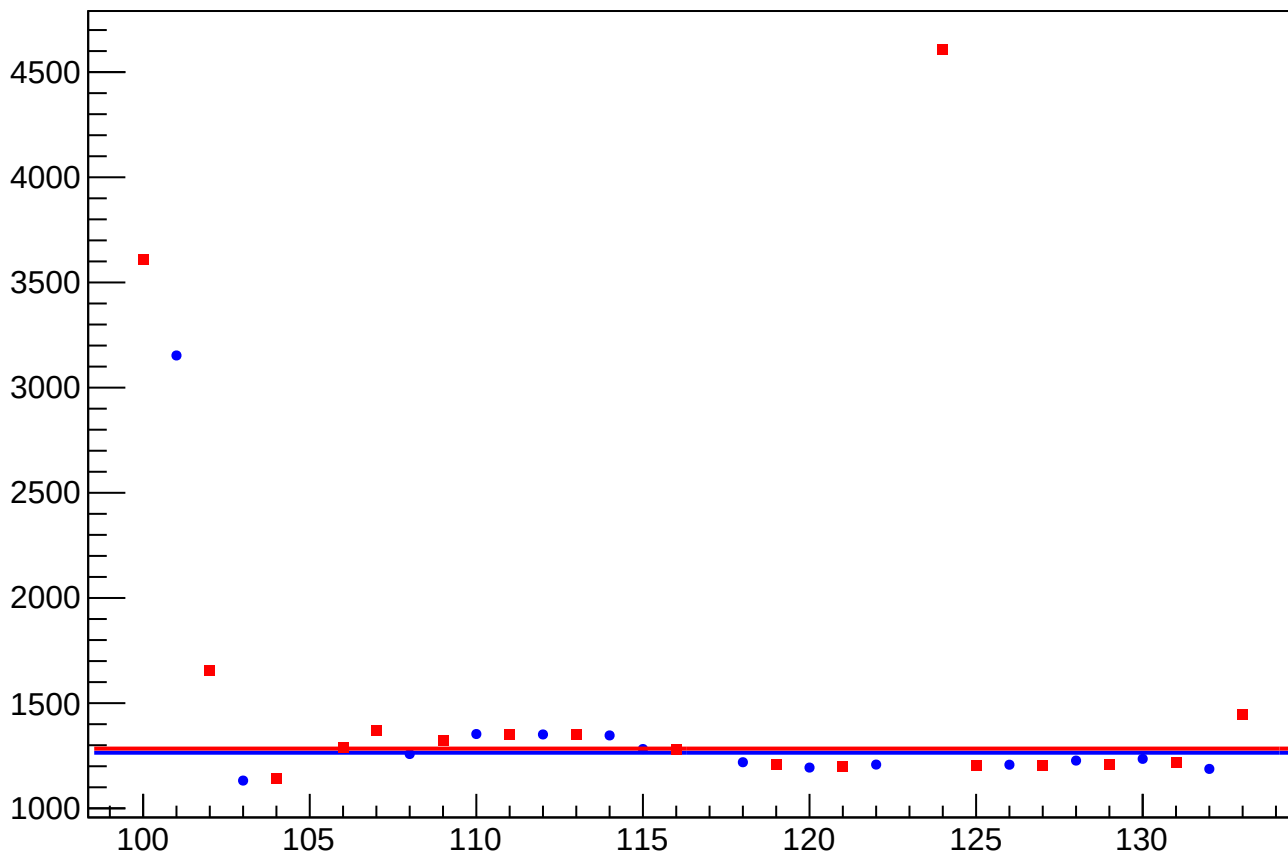
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 518.670+/-366.344  $\chi^2/\text{NDF}$ : 31.4/30

- 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: 1264.375 $\pm$ 0.375  $\chi^2$ /NDF: 507495.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1284.011 $\pm$ 0.359  $\chi^2$ /NDF: 328513.3/16

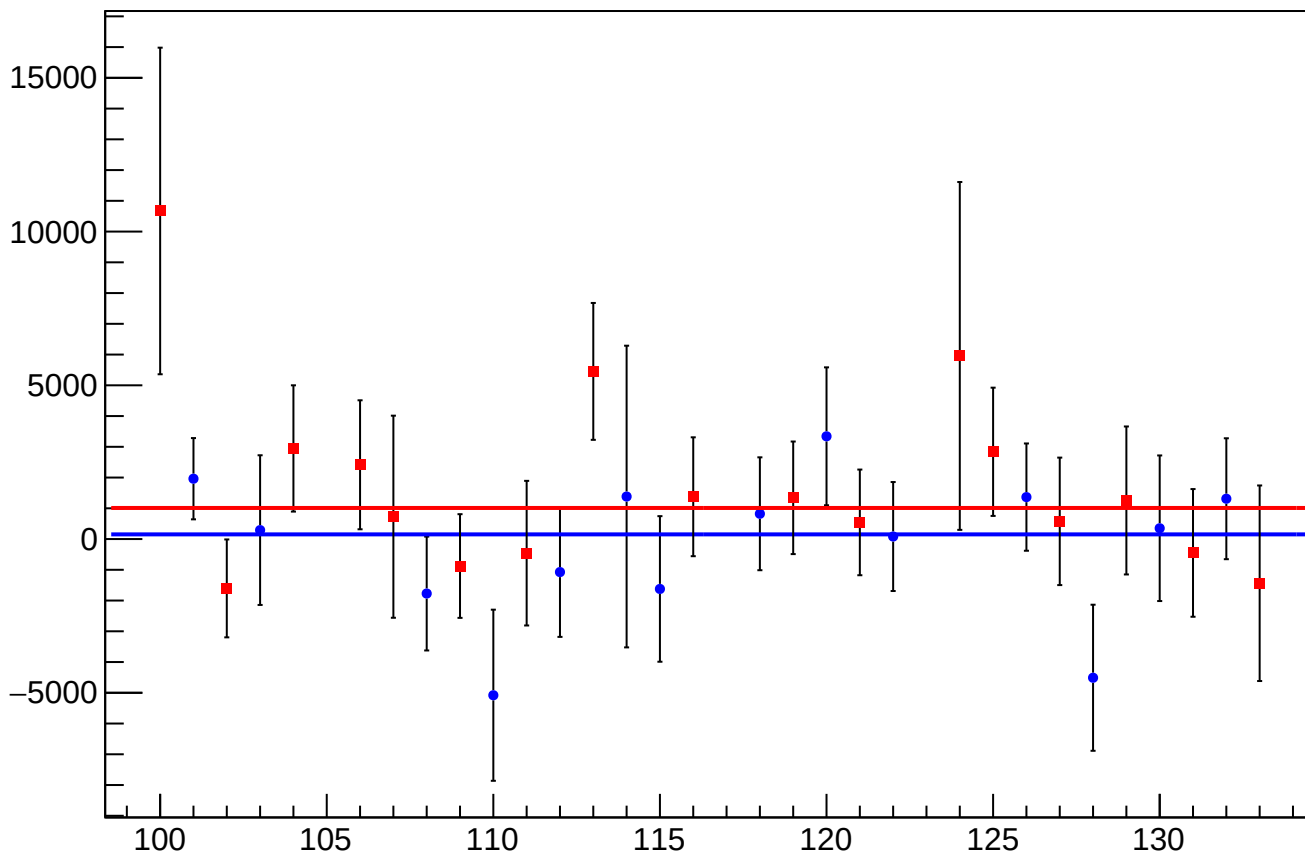
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1274.621 $\pm$ 0.259  $\chi^2$ /NDF: 837442.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 151.977 $\pm$ 545.213  $\chi^2$ /NDF: 14.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1010.941 $\pm$ 525.345  $\chi^2$ /NDF: 15.8/16

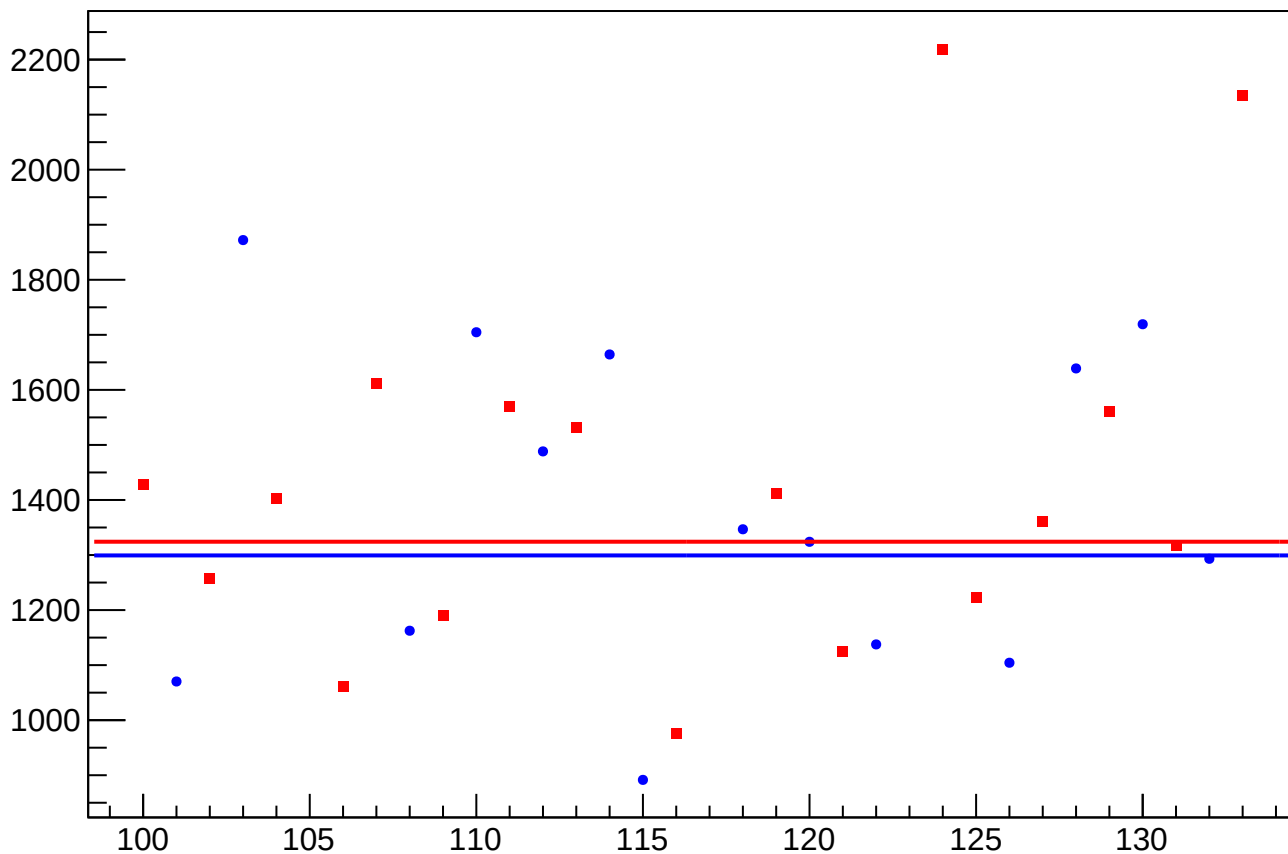
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 597.395 $\pm$ 378.304  $\chi^2$ /NDF: 31.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1299.268+/-0.386  $\chi^2/\text{NDF}$ : 457723.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1324.171+/-0.371  $\chi^2/\text{NDF}$ : 406955.0/16

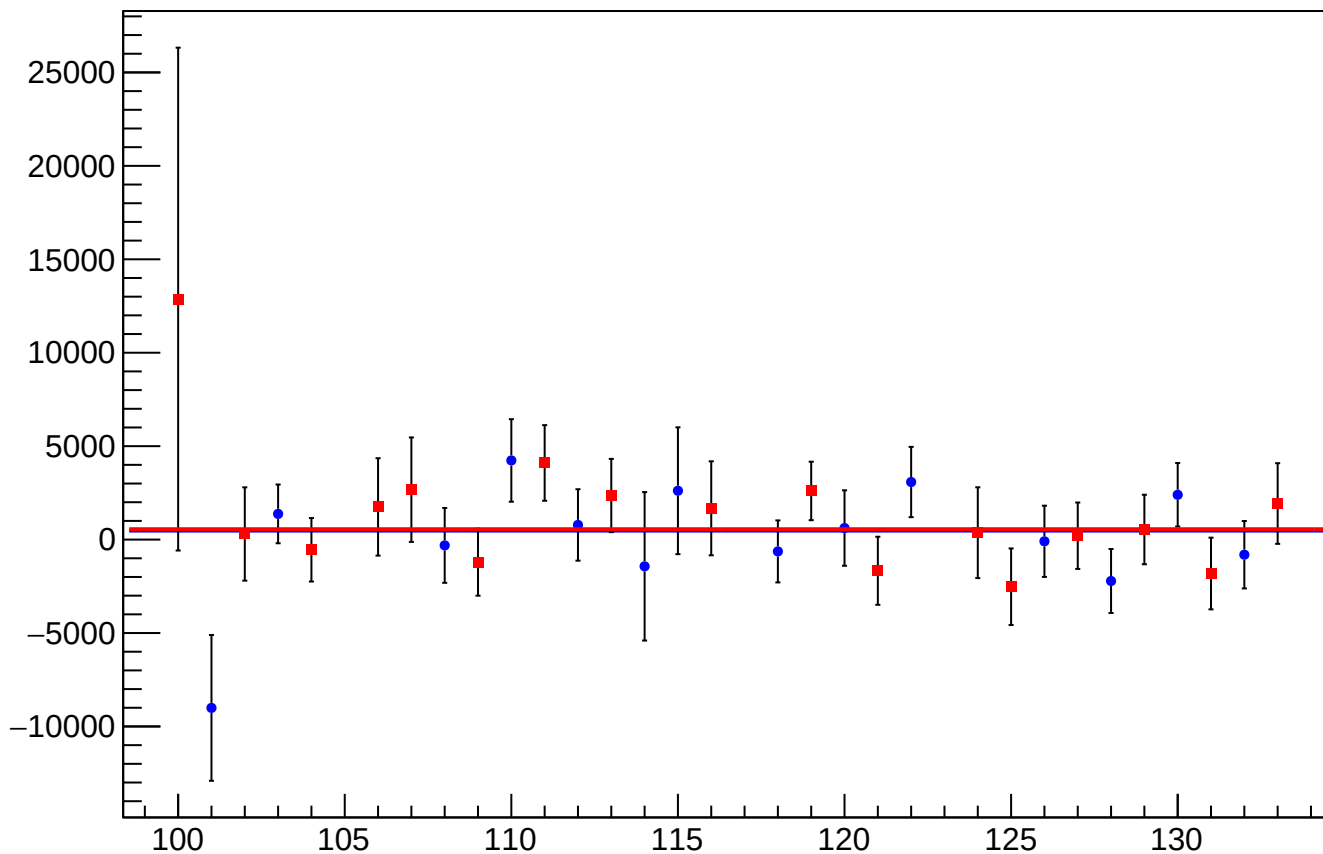
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1312.181+/-0.268  $\chi^2/\text{NDF}$ : 866841.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 484.146+/-533.703  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 554.398+/-501.845  $\chi^2/\text{NDF}$ : 14.6/16

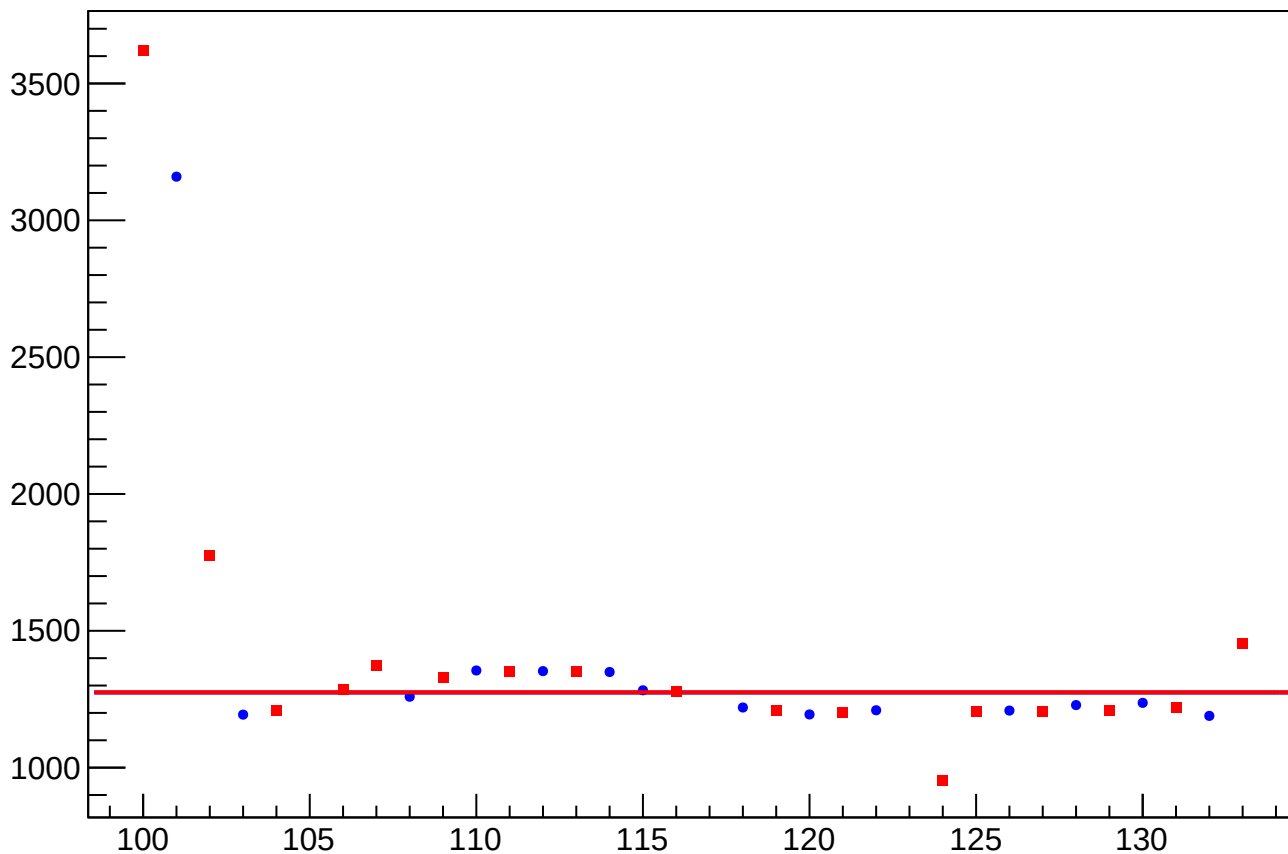
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 521.431+/-365.602  $\chi^2/\text{NDF}$ : 31.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1274.401+/-0.377  $\chi^2/\text{NDF}$ : 496027.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1275.340+/-0.355  $\chi^2/\text{NDF}$ : 220135.3/16

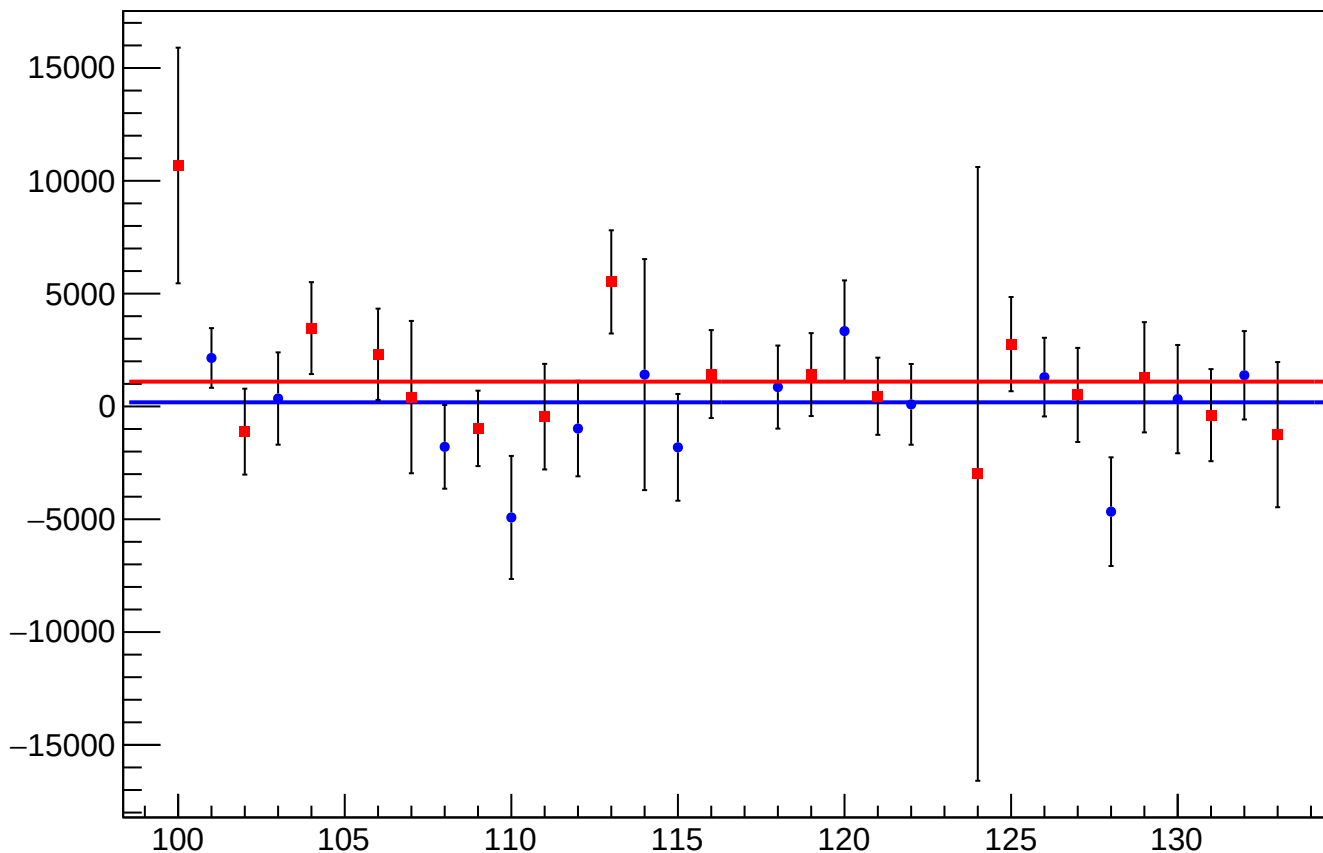
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1274.899+/-0.259  $\chi^2/\text{NDF}$ : 716165.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_dit\_correction\_mean vs Slug



Right In: 182.742 $\pm$ 540.951  $\chi^2$ /NDF: 14.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1099.359 $\pm$ 535.449  $\chi^2$ /NDF: 14.3/16

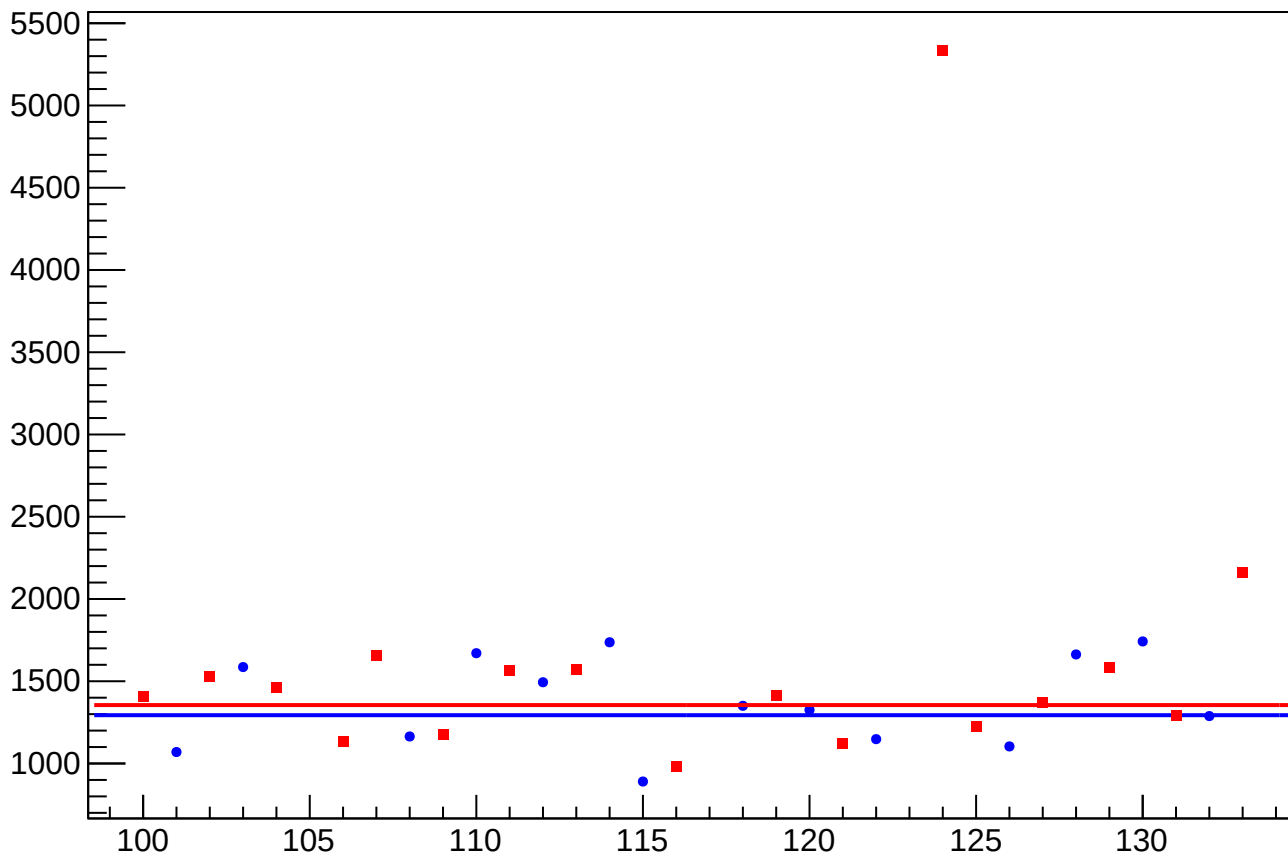
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 645.736 $\pm$ 380.550  $\chi^2$ /NDF: 30.6/30

- 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: 1293.614+/-0.383  $\chi^2/\text{NDF}$ : 393312.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1355.120+/-0.379  $\chi^2/\text{NDF}$ : 556398.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

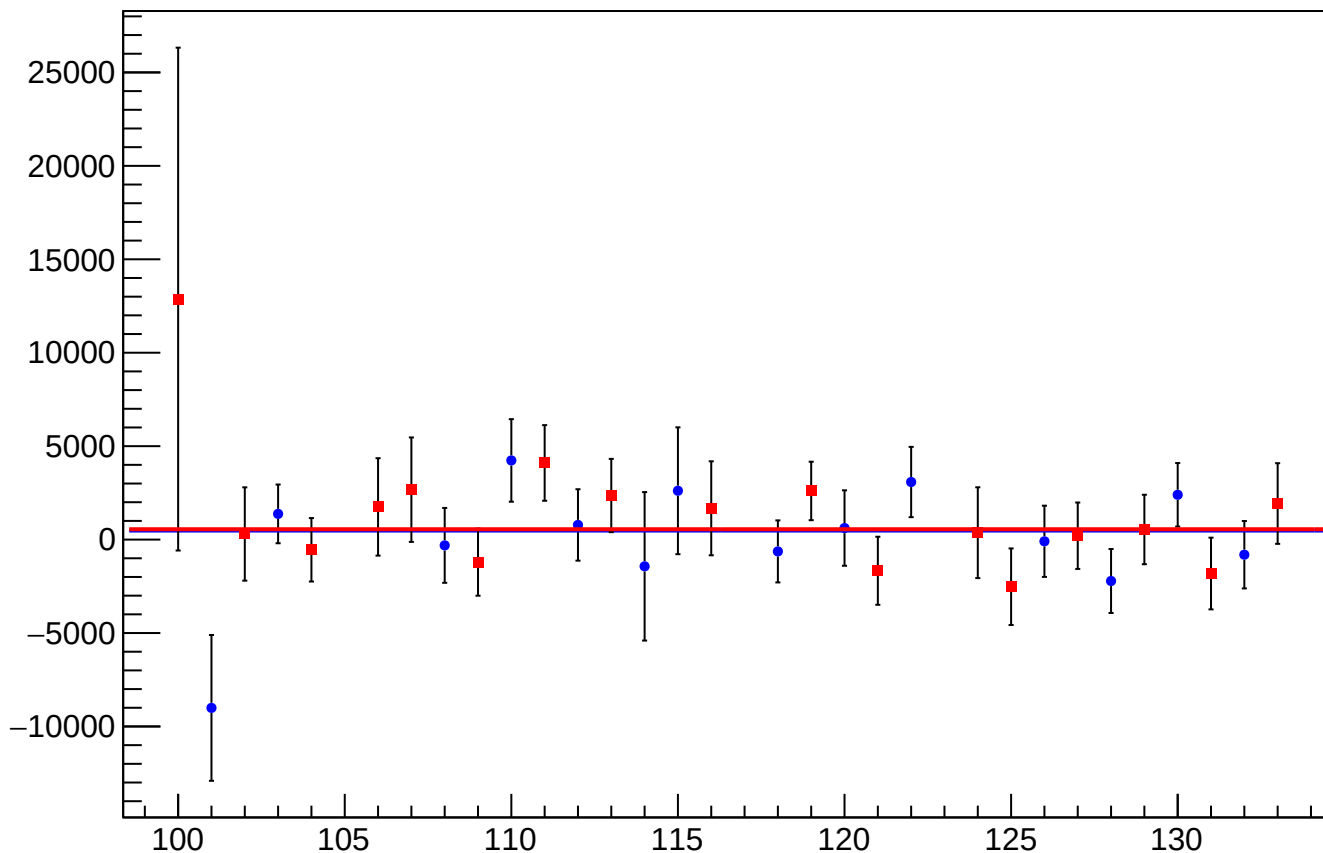
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1324.681+/-0.269  $\chi^2/\text{NDF}$ : 962770.2/30

- 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: 484.143+/-533.703  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 554.398+/-501.845  $\chi^2/\text{NDF}$ : 14.6/16

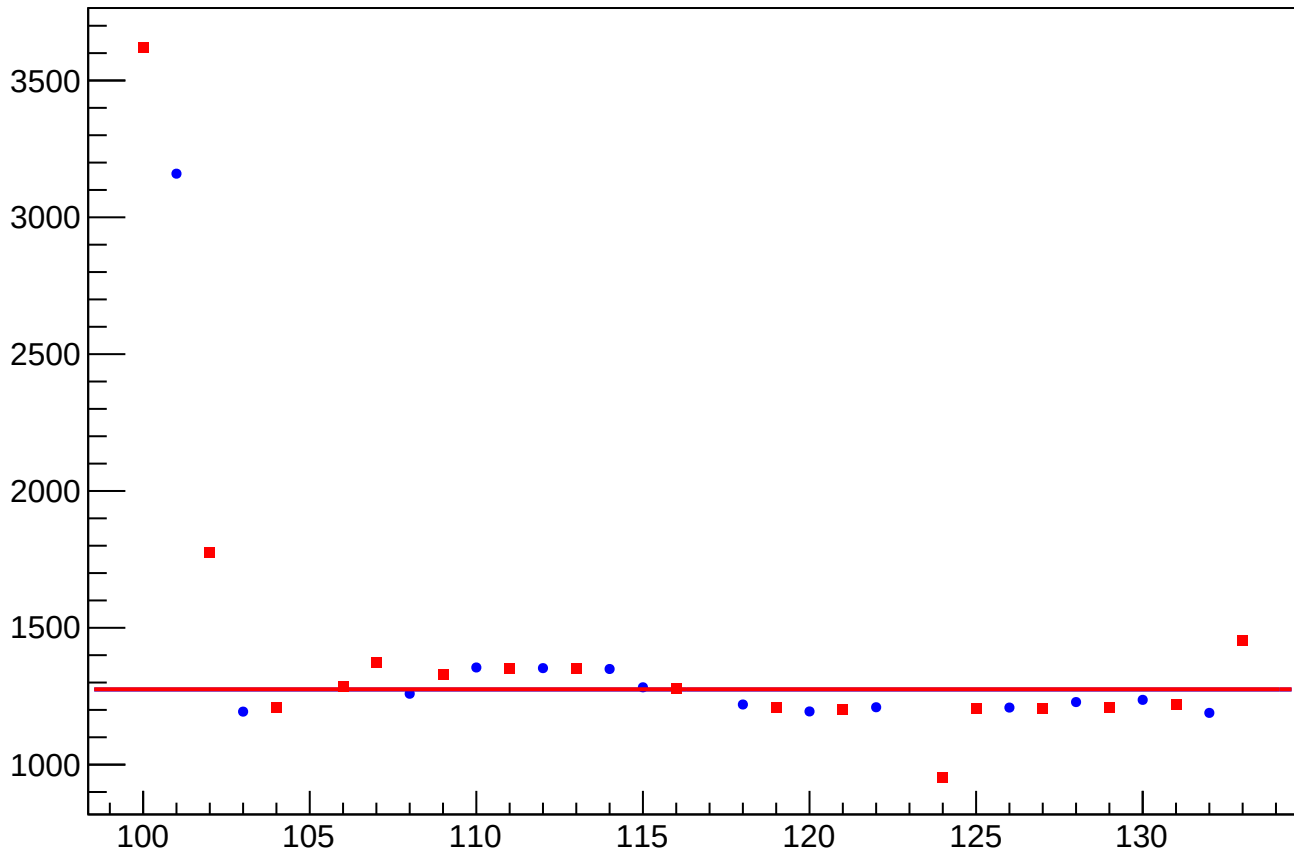
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 521.430+/-365.602  $\chi^2/\text{NDF}$ : 31.2/30

- 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: 1274.401+/-0.377  $\chi^2/\text{NDF}$ : 496027.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1275.340+/-0.355  $\chi^2/\text{NDF}$ : 220135.1/16

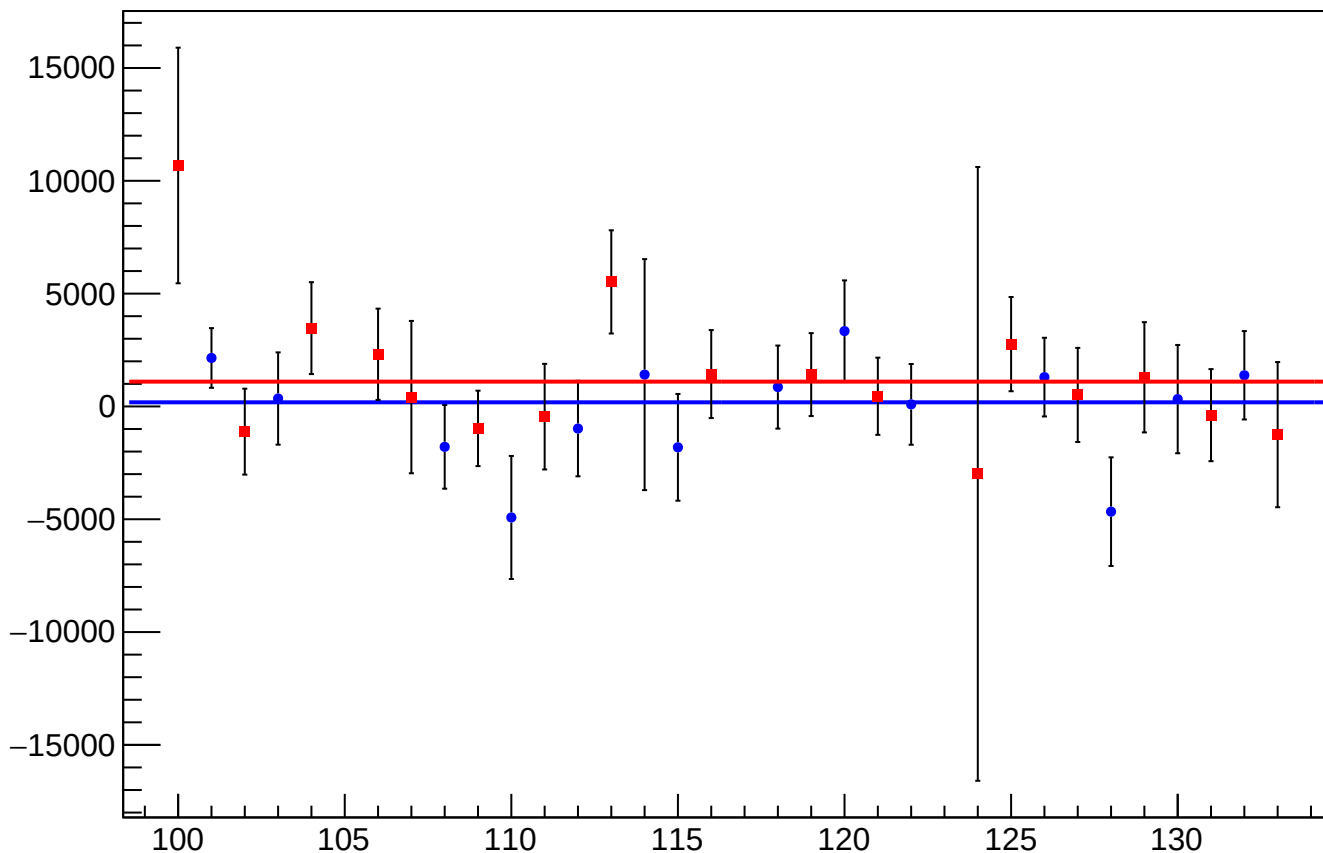
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1274.899+/-0.259  $\chi^2/\text{NDF}$ : 716165.7/30

- 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: 182.742 $\pm$ 540.949  $\chi^2$ /NDF: 14.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1099.360 $\pm$ 535.448  $\chi^2$ /NDF: 14.3/16

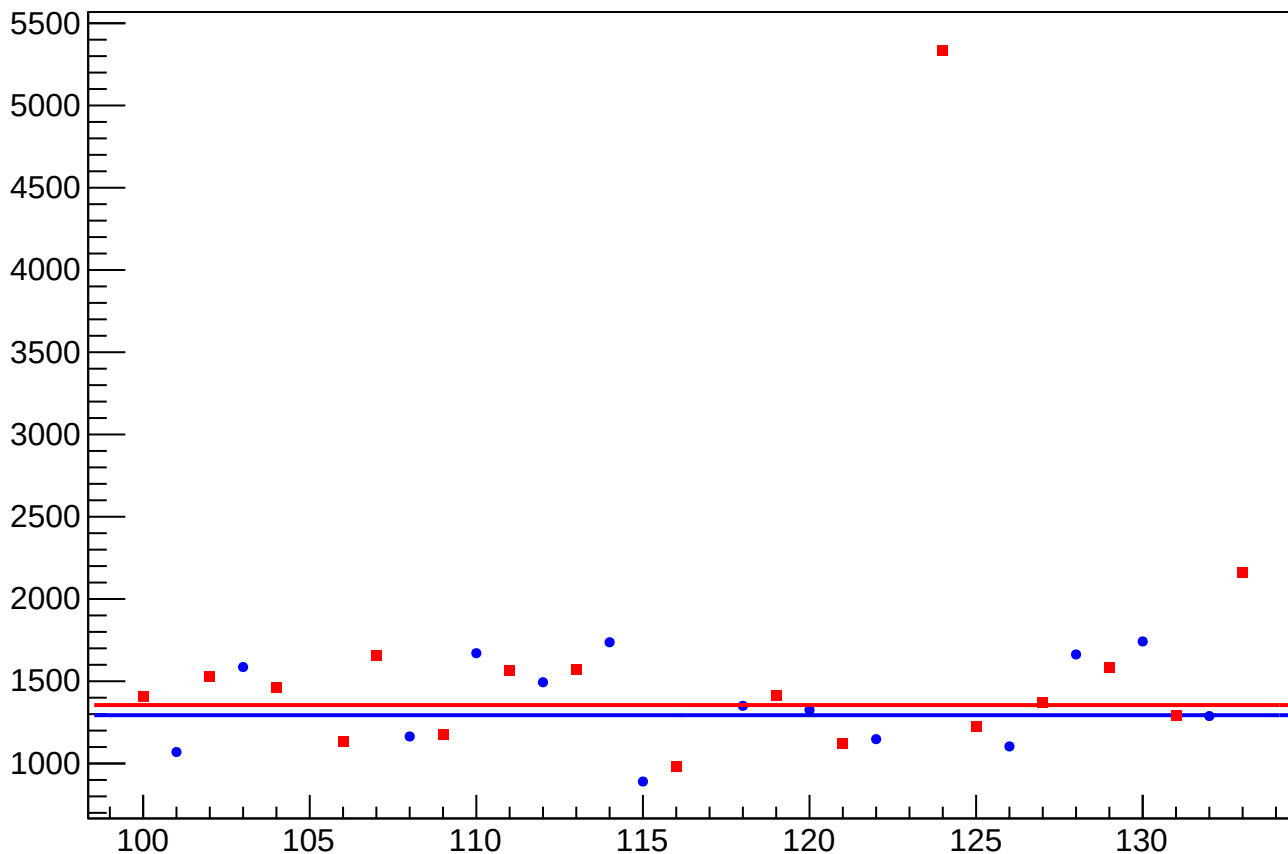
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 645.735 $\pm$ 380.549  $\chi^2$ /NDF: 30.6/30

- 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: 1293.609+/-0.383  $\chi^2/\text{NDF}$ : 393316.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1355.119+/-0.379  $\chi^2/\text{NDF}$ : 556398.8/16

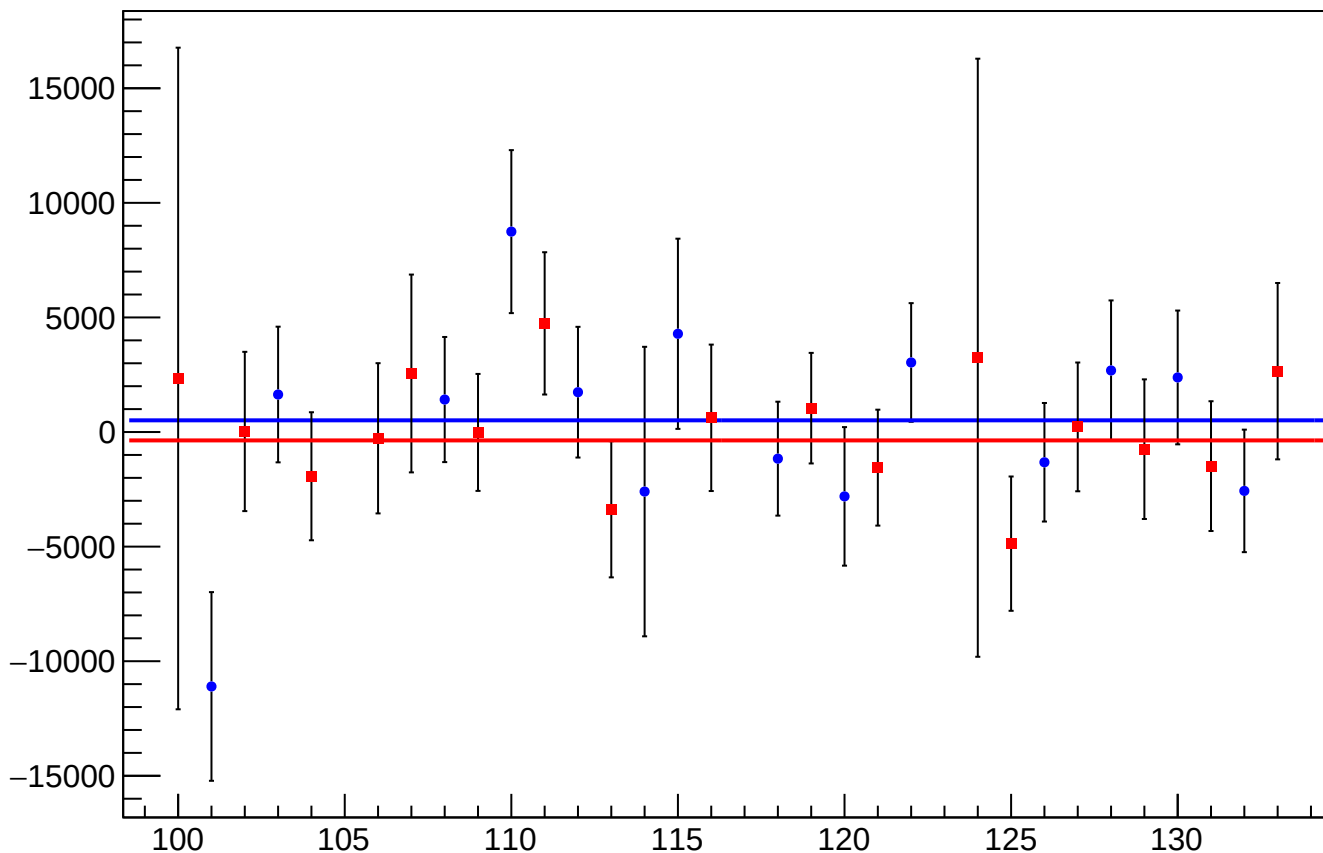
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1324.678+/-0.269  $\chi^2/\text{NDF}$ : 962776.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 510.322+/-809.248  $\chi^2/\text{NDF}$ : 20.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -365.785+/-765.056  $\chi^2/\text{NDF}$ : 8.5/16

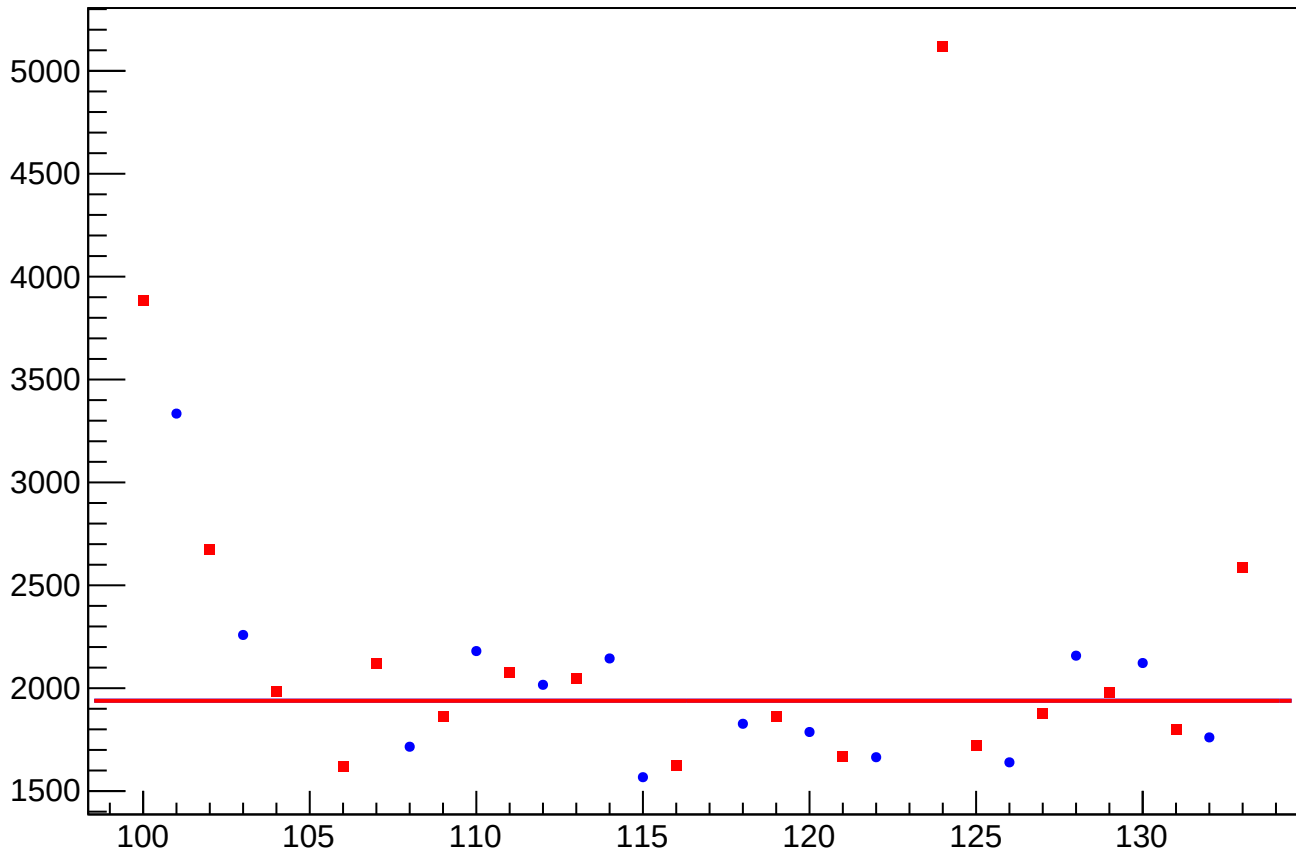
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.695+/-555.943  $\chi^2/\text{NDF}$ : 29.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1939.467+/-0.572  $\chi^2/\text{NDF}$ : 380834.1/13

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

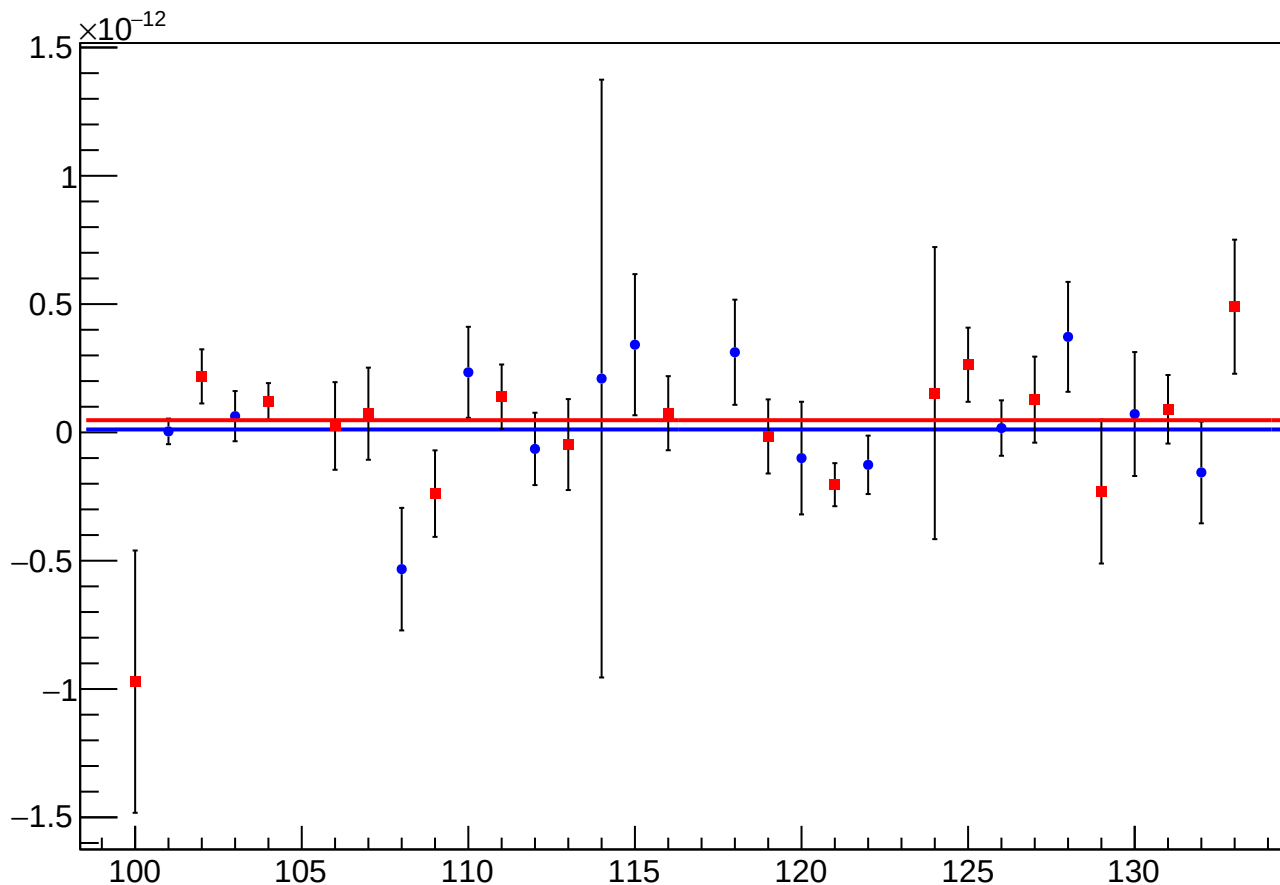
Right Out: 1938.744+/-0.541  $\chi^2/\text{NDF}$ : 394697.6/16

All: 1939.085+/-0.393  $\chi^2/\text{NDF}$ : 775532.6/30

- 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+/-0.000  $\chi^2/\text{NDF}$ : 16.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 27.0/16

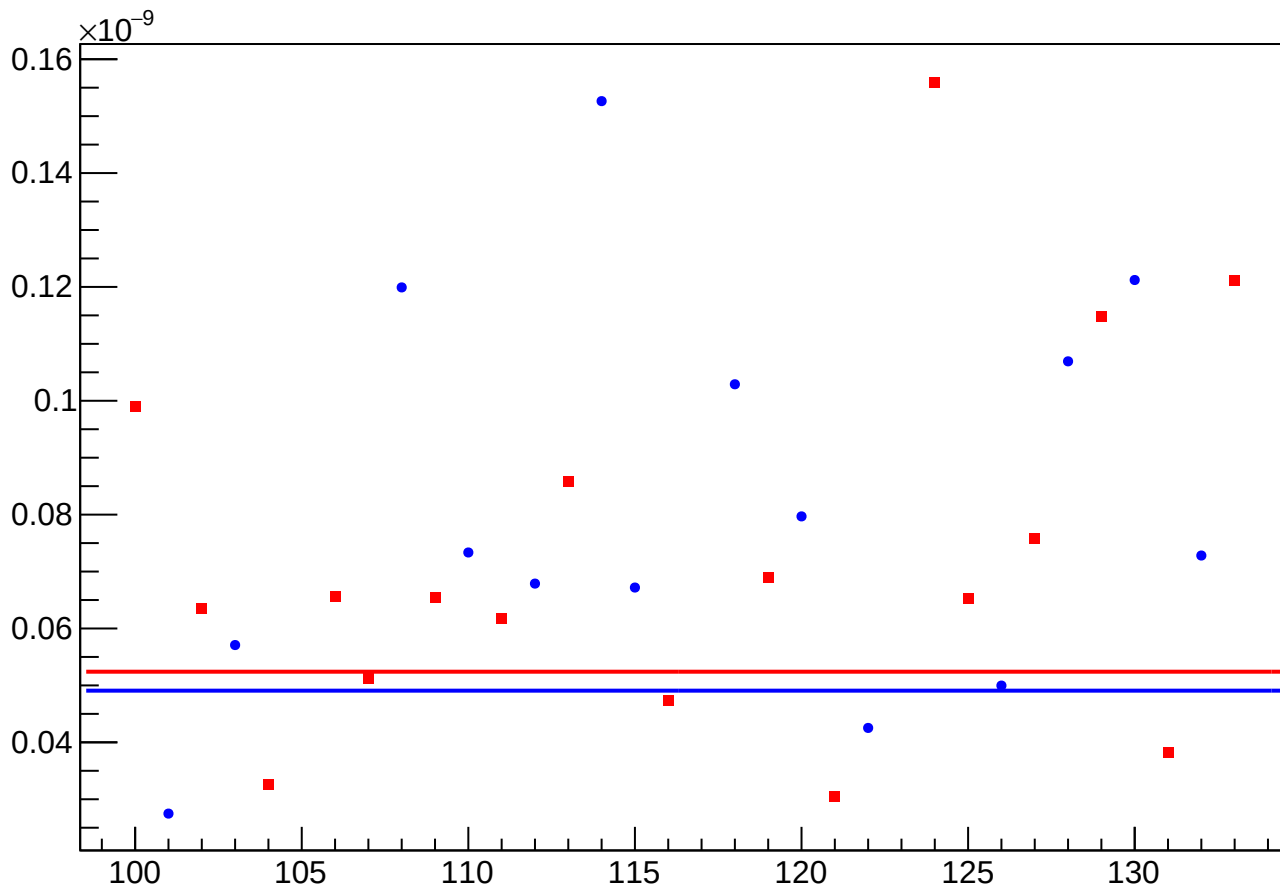
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 44.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1199741.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 844884.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

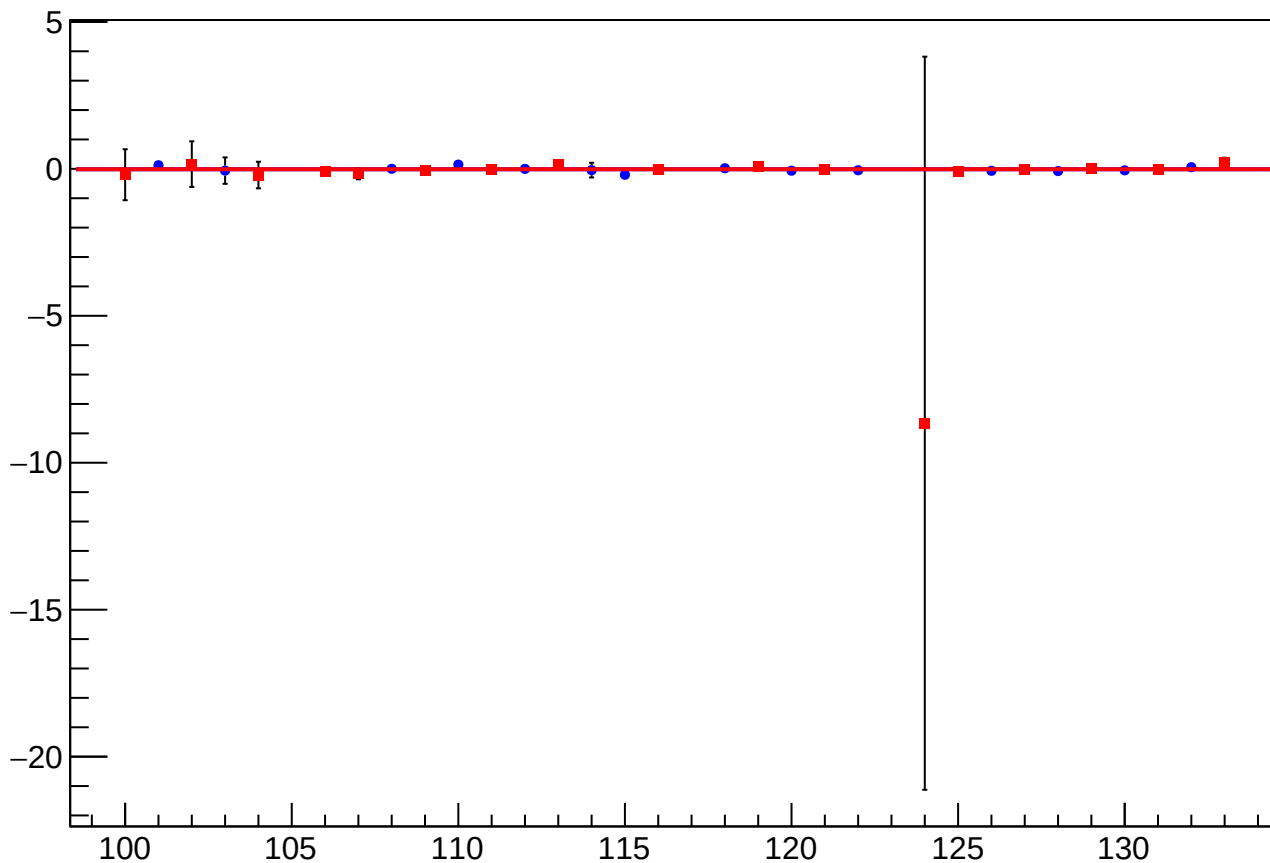
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2054543.6/30

- 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:  $-0.013 \pm 0.020$   $\chi^2/\text{NDF}: 13.6/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.014 \pm 0.019$   $\chi^2/\text{NDF}: 12.5/16$

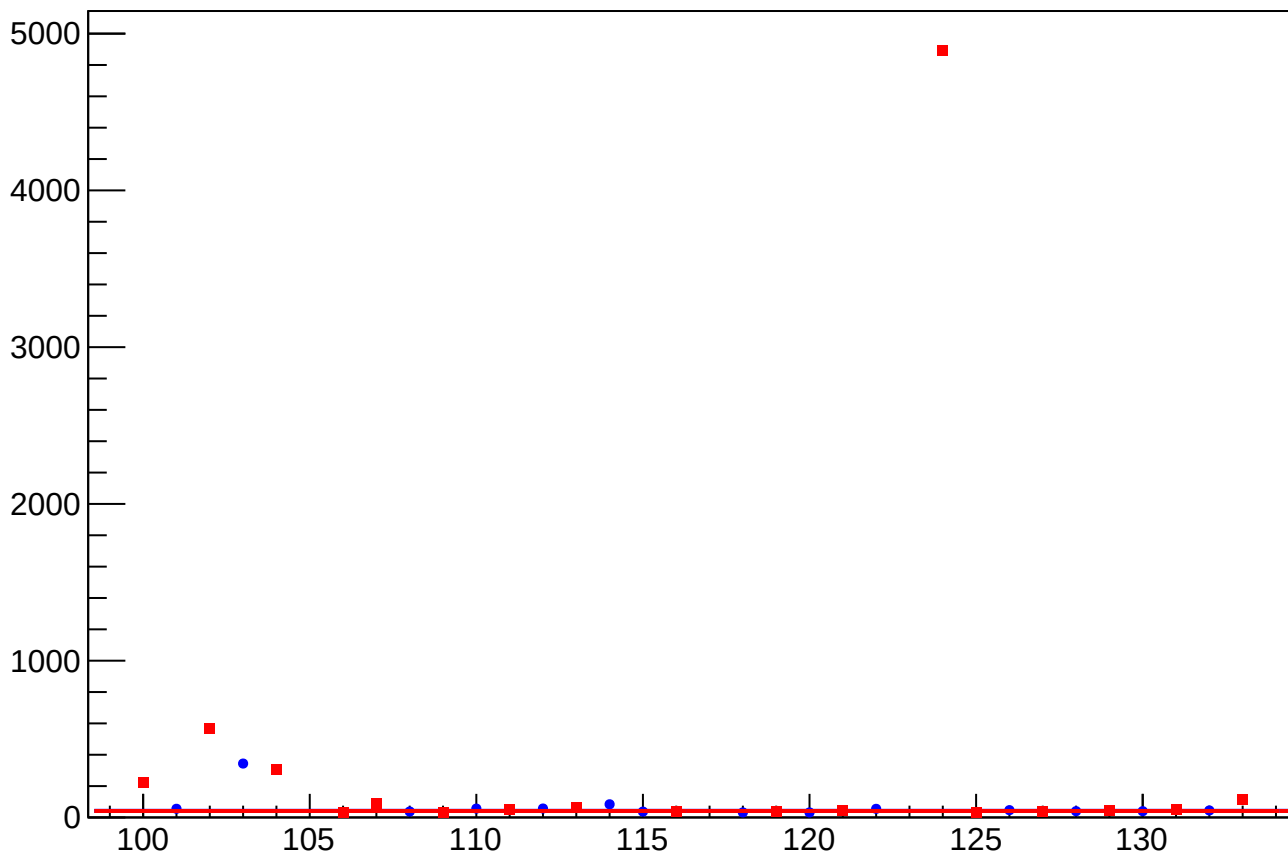
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.014 \pm 0.014$   $\chi^2/\text{NDF}: 26.1/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_atl\_dd\_atr\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In:  $42.284 \pm 0.014$   $\chi^2/\text{NDF}: 1356322.6/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $41.239 \pm 0.014$   $\chi^2/\text{NDF}: 2799445.4/16$

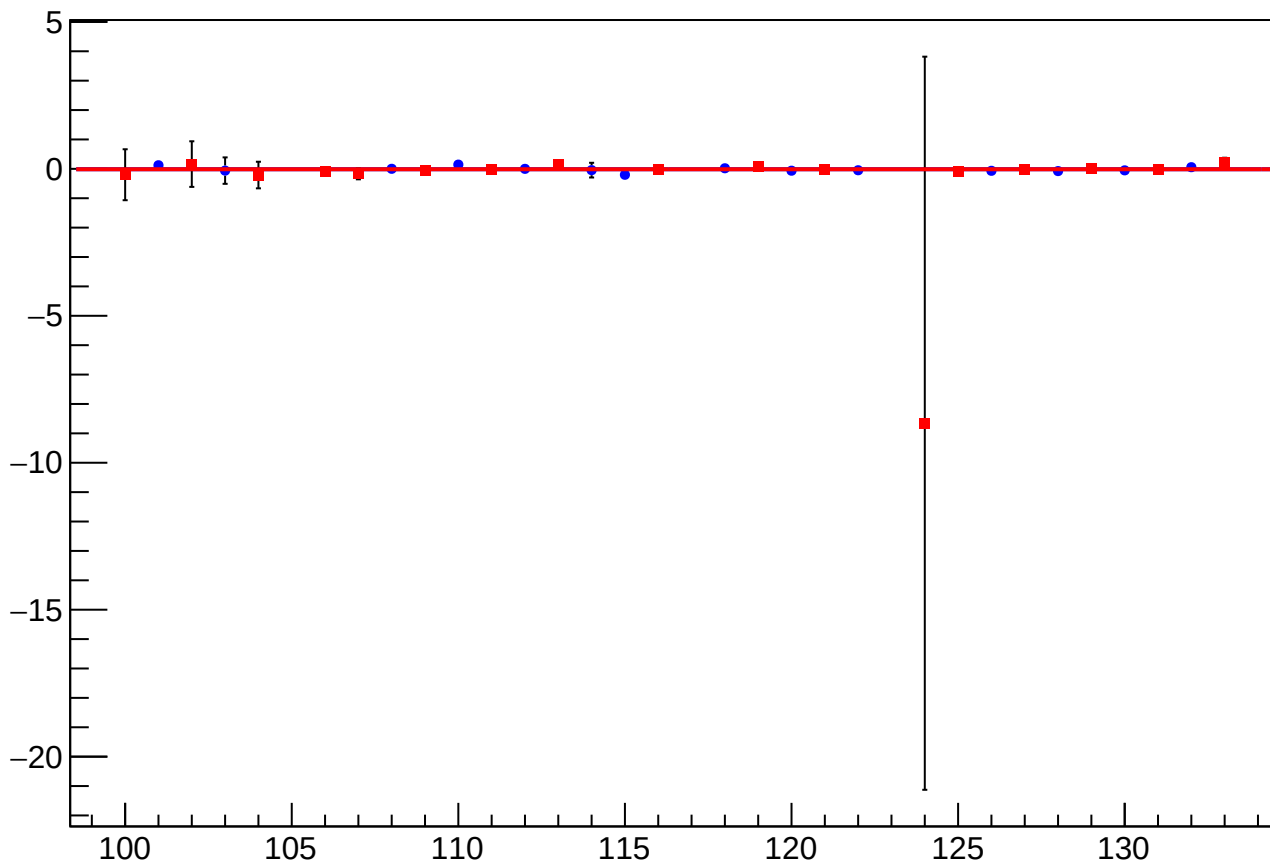
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $41.757 \pm 0.010$   $\chi^2/\text{NDF}: 4158623.0/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_atl\_dd\_atr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.013 \pm 0.020$   $\chi^2/\text{NDF}$ : 13.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.014 \pm 0.019$   $\chi^2/\text{NDF}$ : 12.5/16

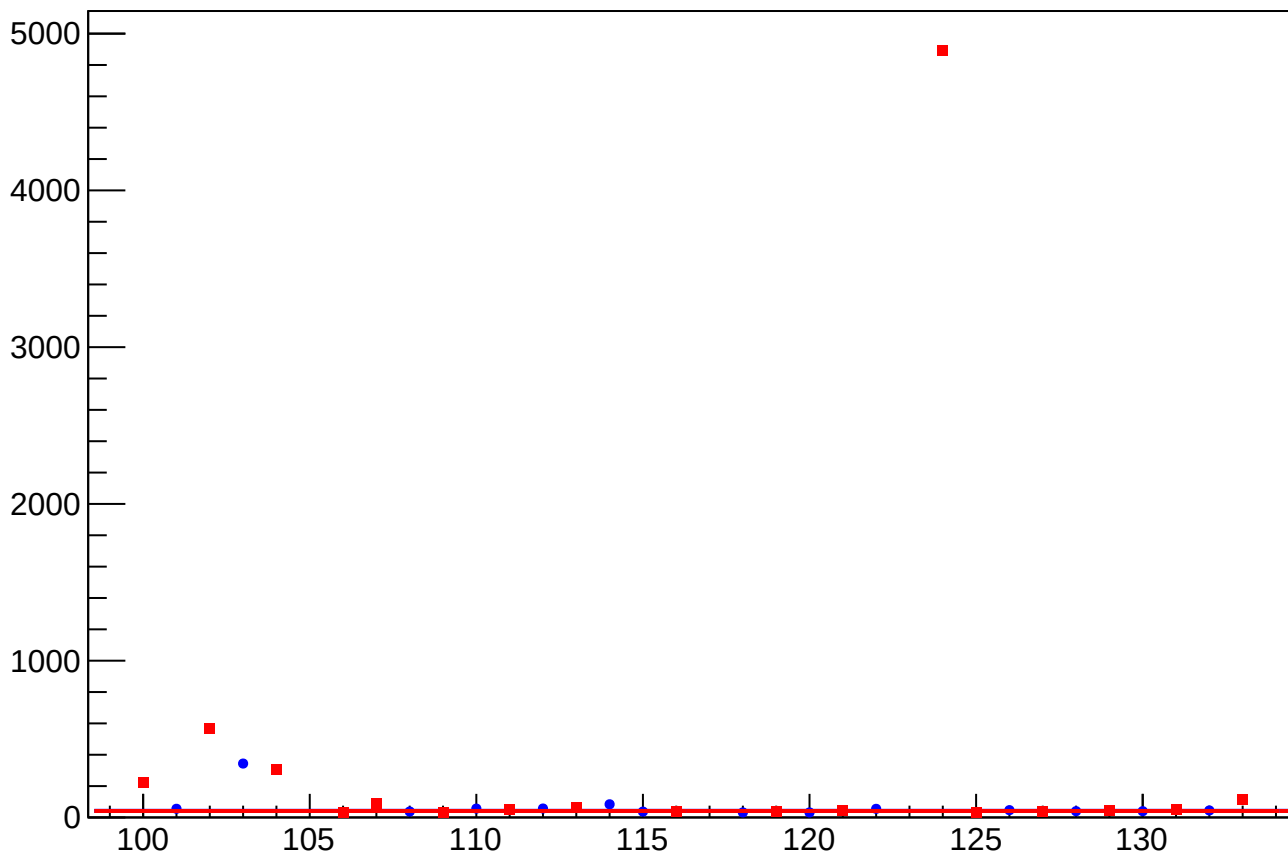
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.014 \pm 0.014$   $\chi^2/\text{NDF}$ : 26.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 42.284+/-0.014  $\chi^2/\text{NDF}$ : 1356322.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 41.239+/-0.014  $\chi^2/\text{NDF}$ : 2799445.4/16

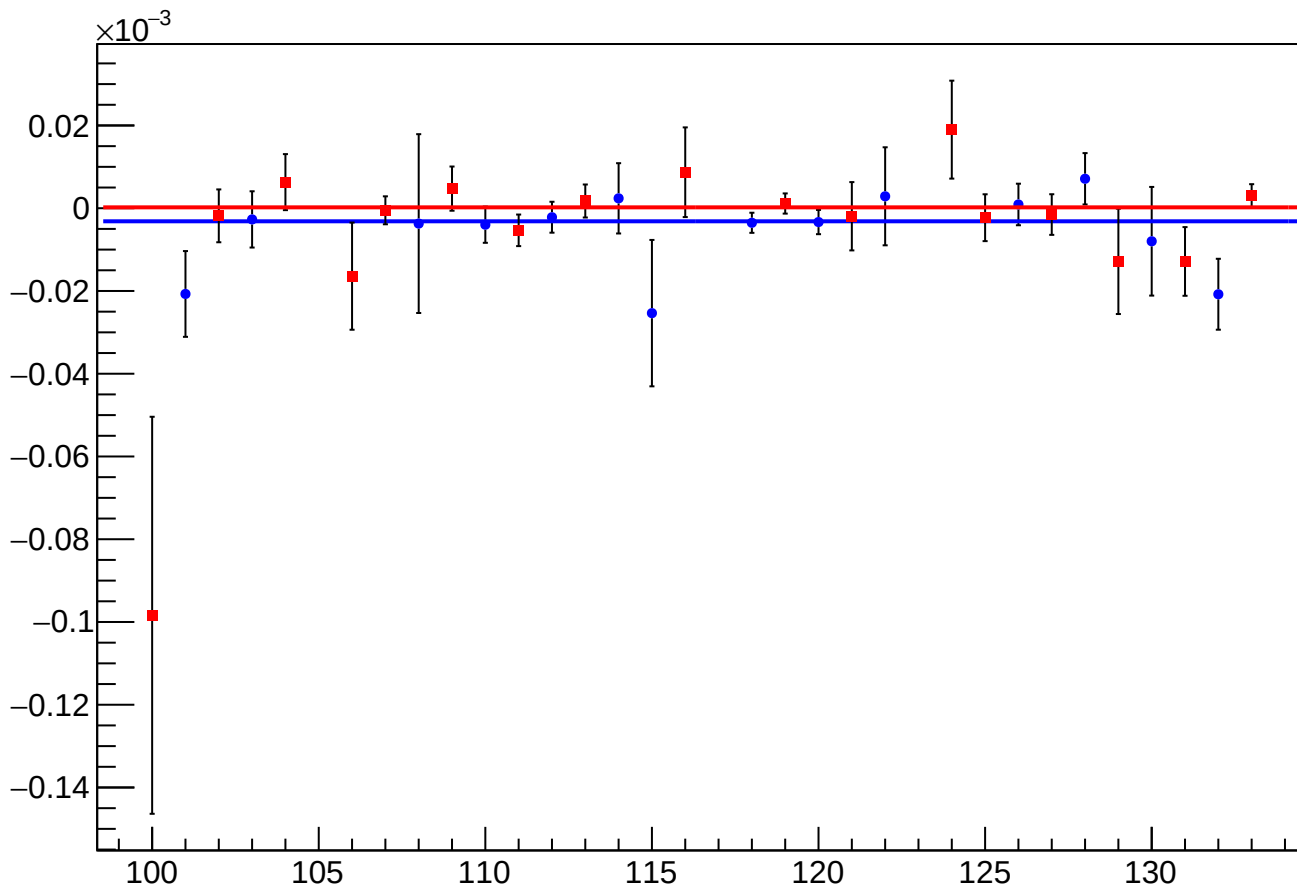
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.757+/-0.010  $\chi^2/\text{NDF}$ : 4158623.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 13.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 17.9/16

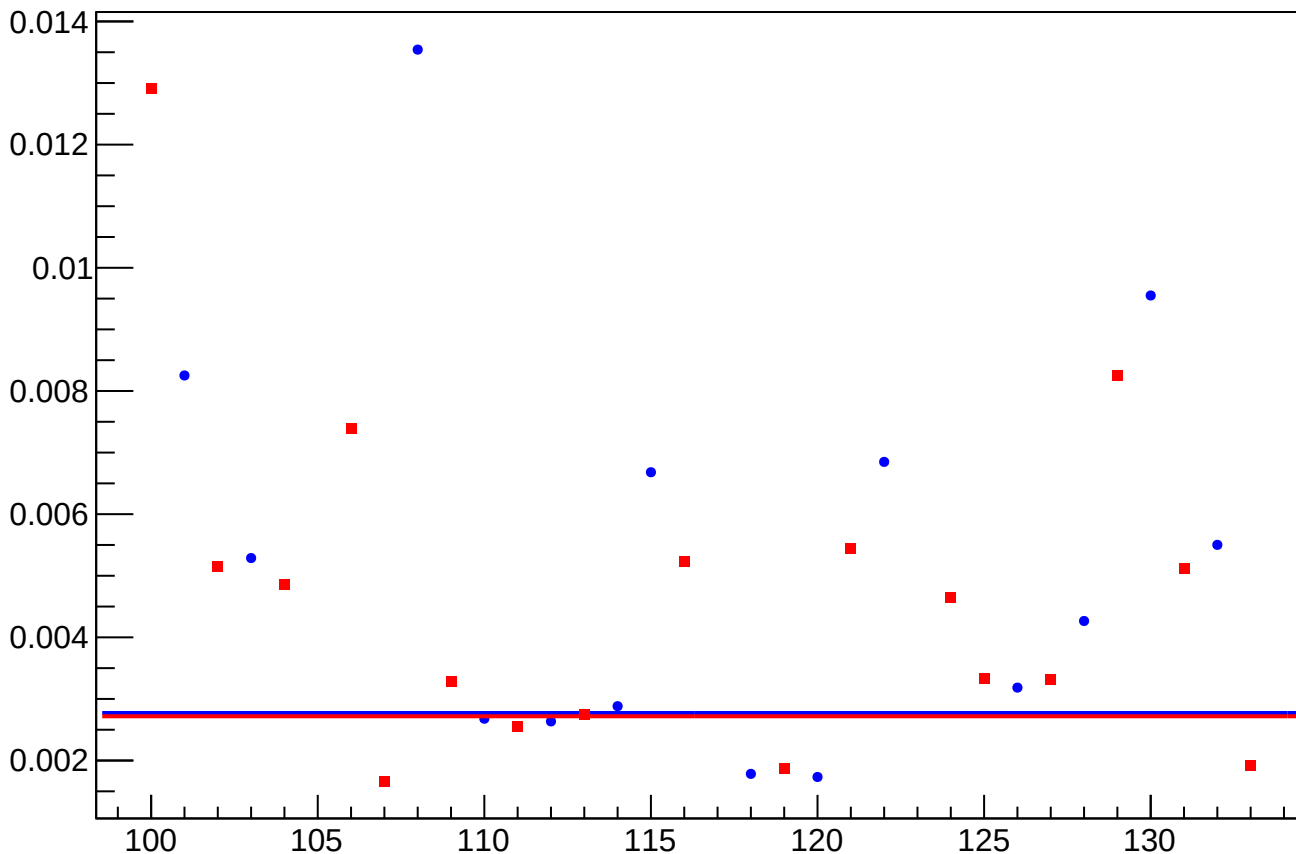
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 34.5/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 3115967.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2442211.3/16

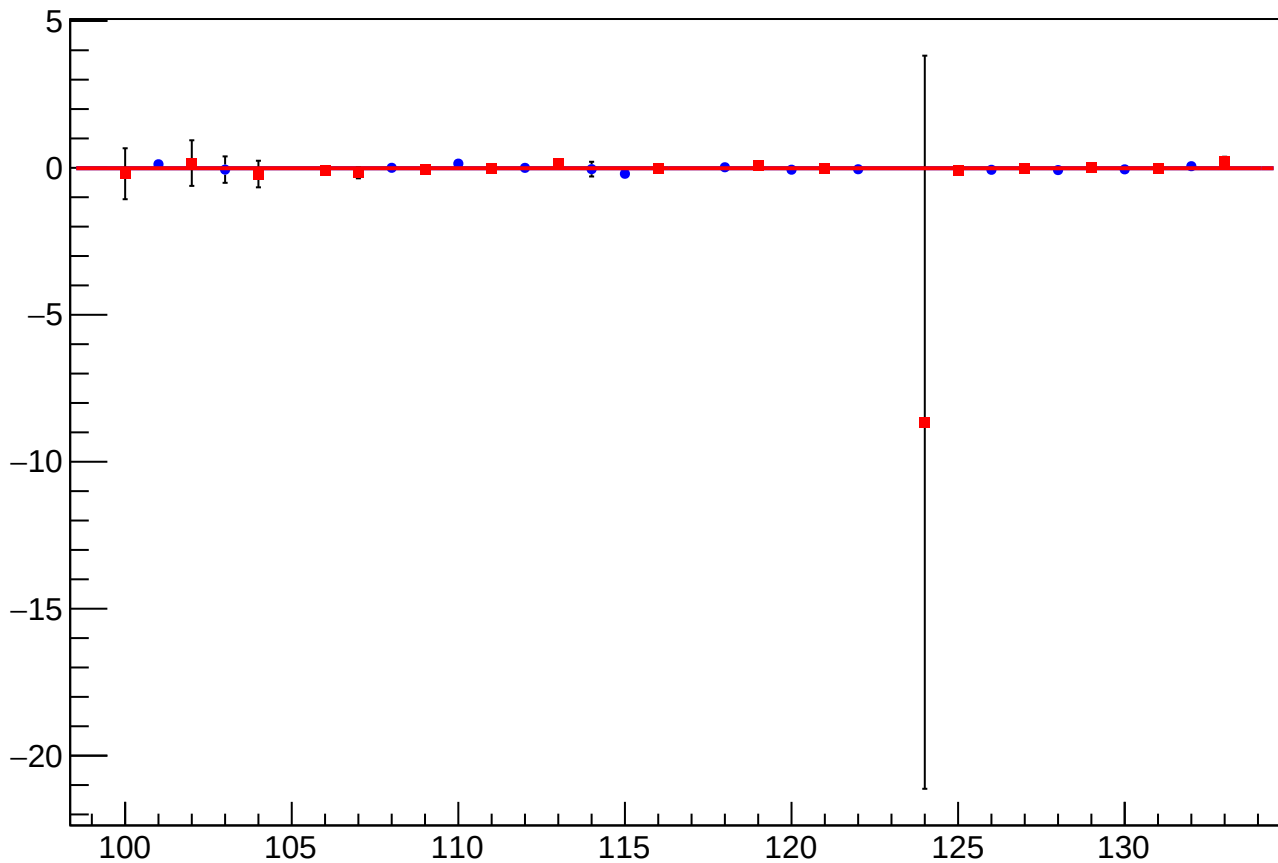
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 5559984.0/30

- 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:  $-0.013 \pm 0.020$   $\chi^2/\text{NDF}$ : 13.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.014 \pm 0.019$   $\chi^2/\text{NDF}$ : 12.5/16

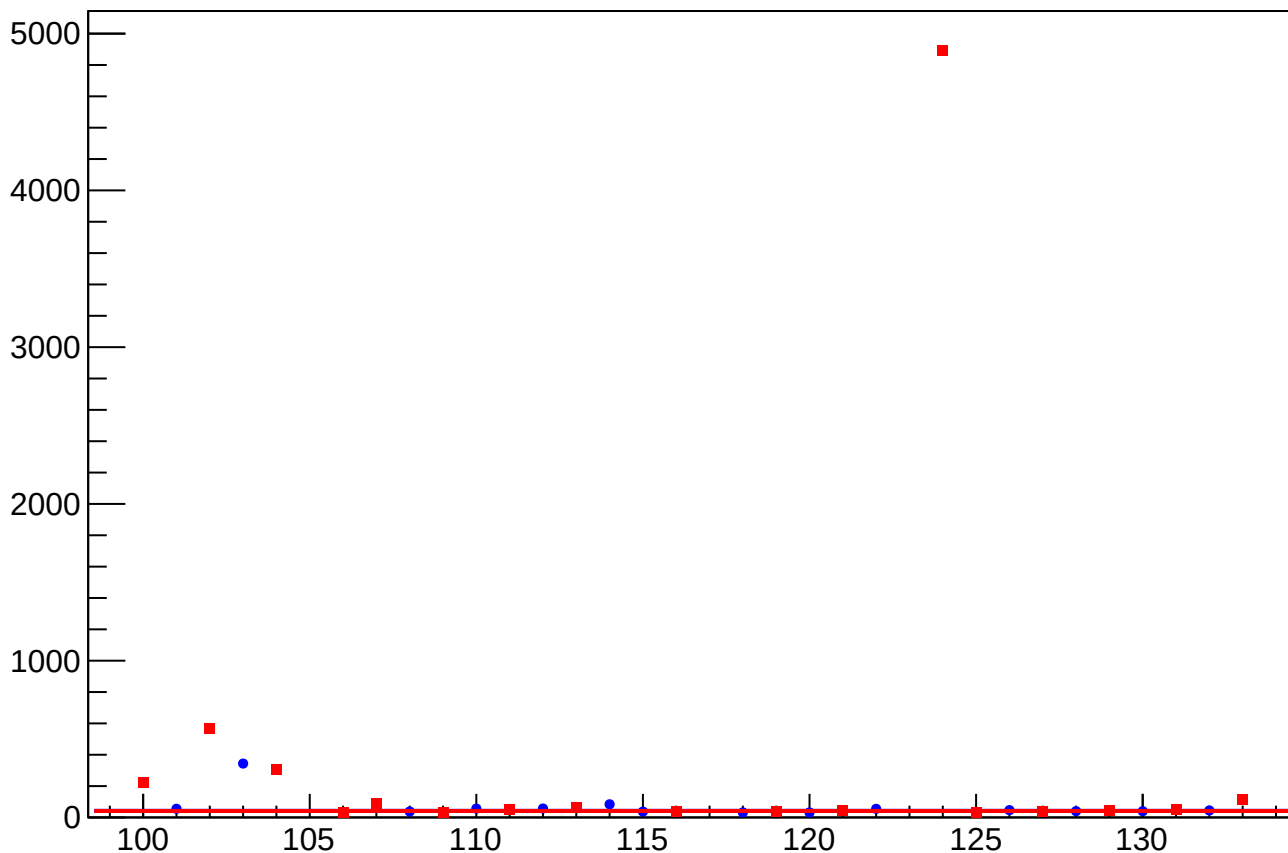
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.014 \pm 0.014$   $\chi^2/\text{NDF}$ : 26.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 42.284+/-0.014  $\chi^2/\text{NDF}$ : 1356339.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 41.238+/-0.014  $\chi^2/\text{NDF}$ : 2799499.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

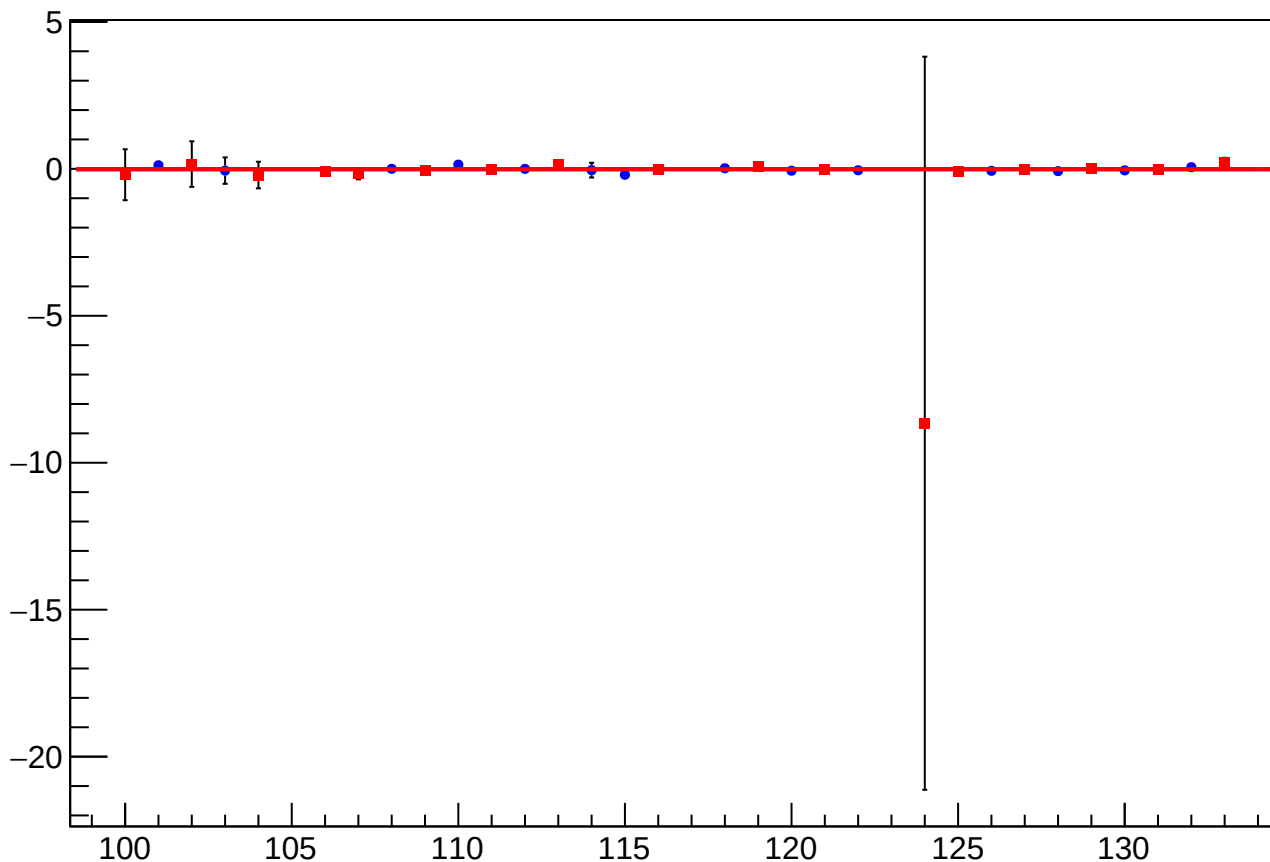
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.757+/-0.010  $\chi^2/\text{NDF}$ : 4158699.1/30

- 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:  $-0.013 \pm 0.020$   $\chi^2/\text{NDF}$ : 13.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.014 \pm 0.019$   $\chi^2/\text{NDF}$ : 12.5/16

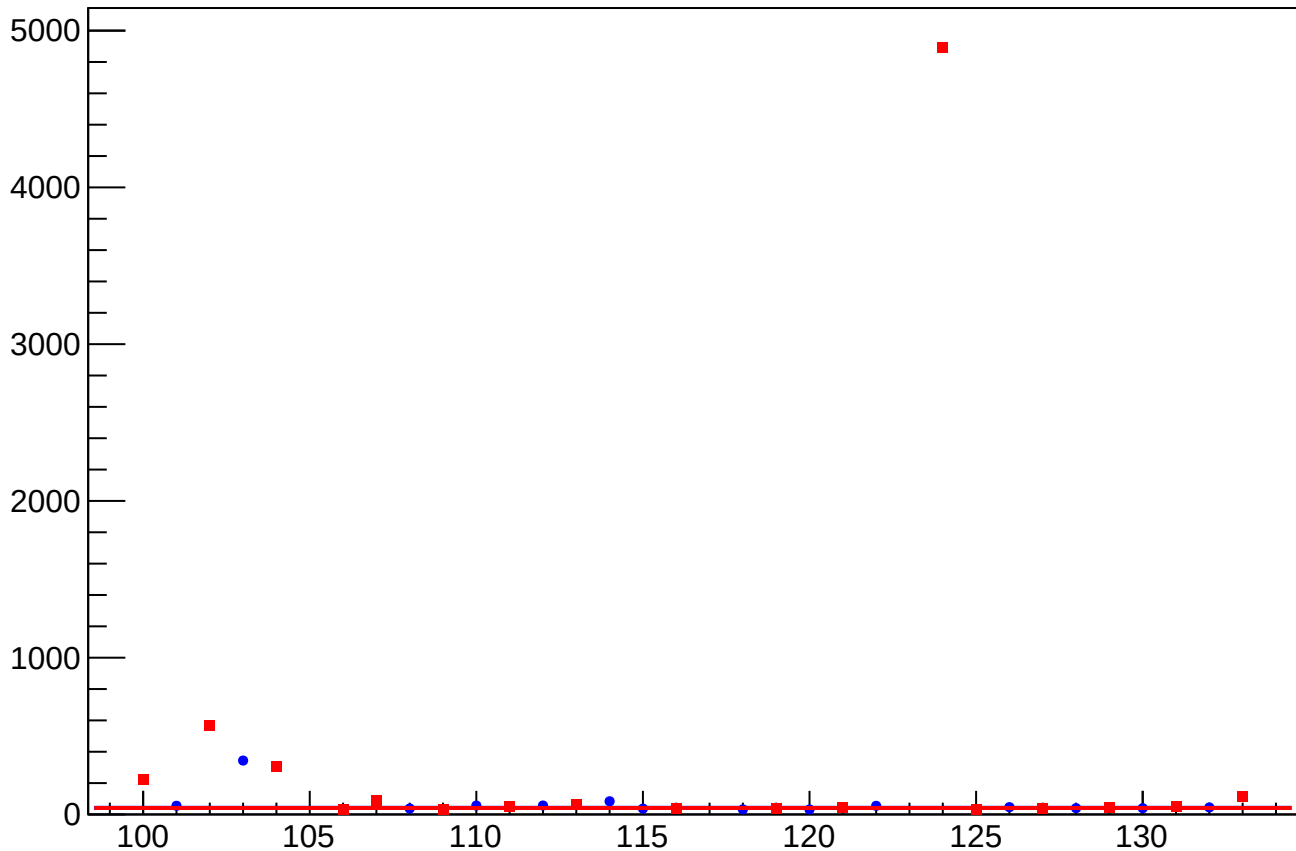
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.014 \pm 0.014$   $\chi^2/\text{NDF}$ : 26.1/30

- 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: 42.284+/-0.014  $\chi^2/\text{NDF}$ : 1356339.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 41.238+/-0.014  $\chi^2/\text{NDF}$ : 2799499.6/16

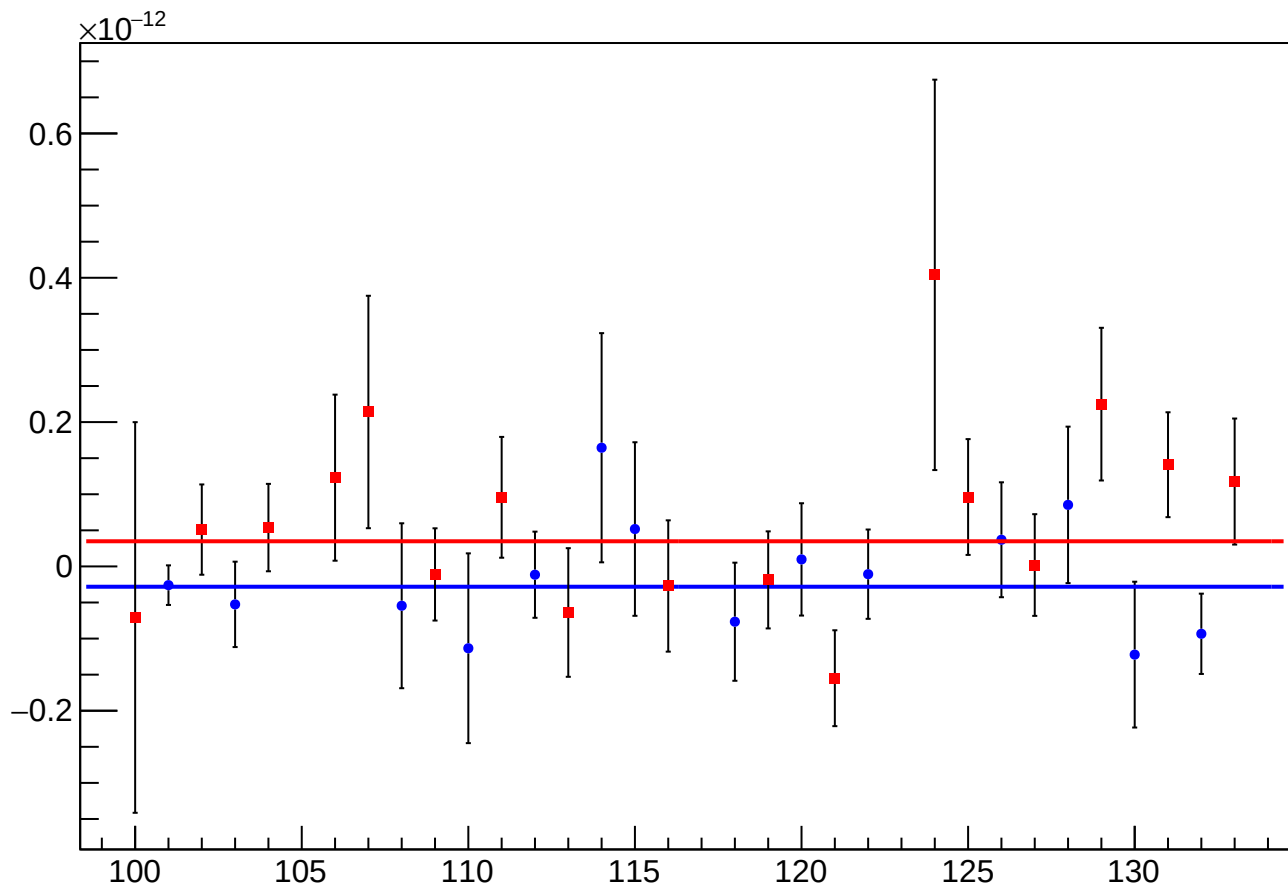
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.757+/-0.010  $\chi^2/\text{NDF}$ : 4158699.1/30

- 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  $\chi^2/\text{NDF}$ : 7.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 22.6/16

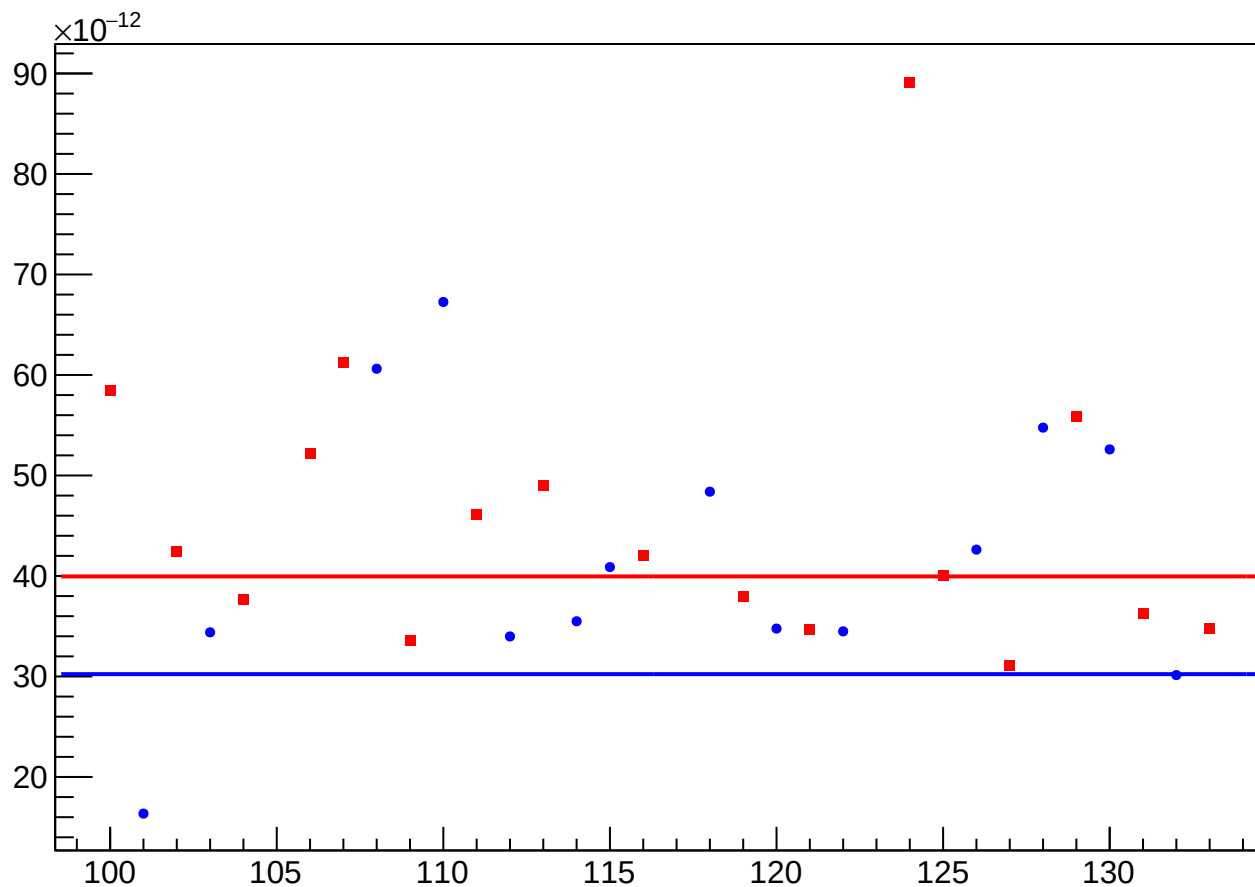
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 35.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1210695.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 294973.2/16

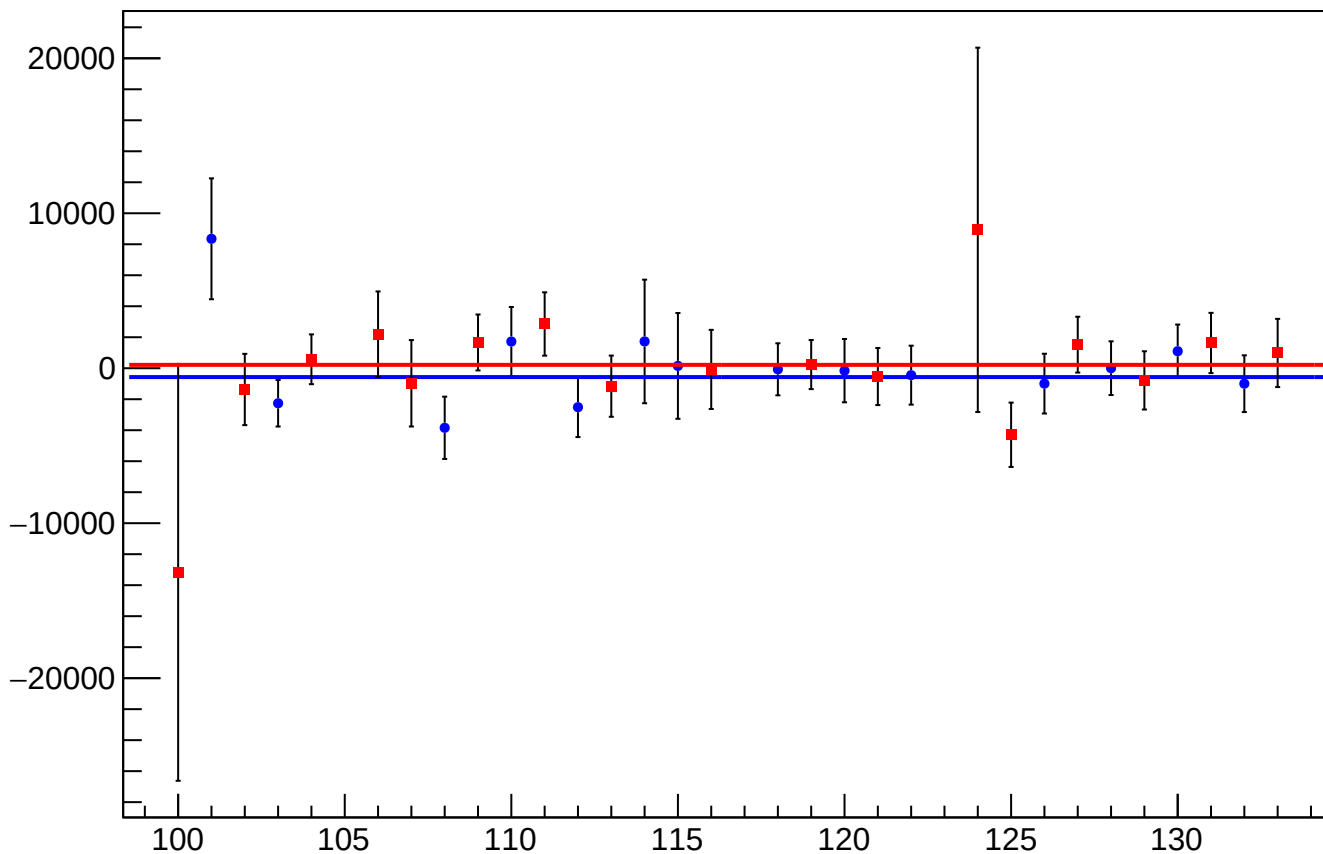
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1778404.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In:  $-571.910 \pm 535.663$   $\chi^2/\text{NDF}$ : 12.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $217.420 \pm 513.494$   $\chi^2/\text{NDF}$ : 11.9/16

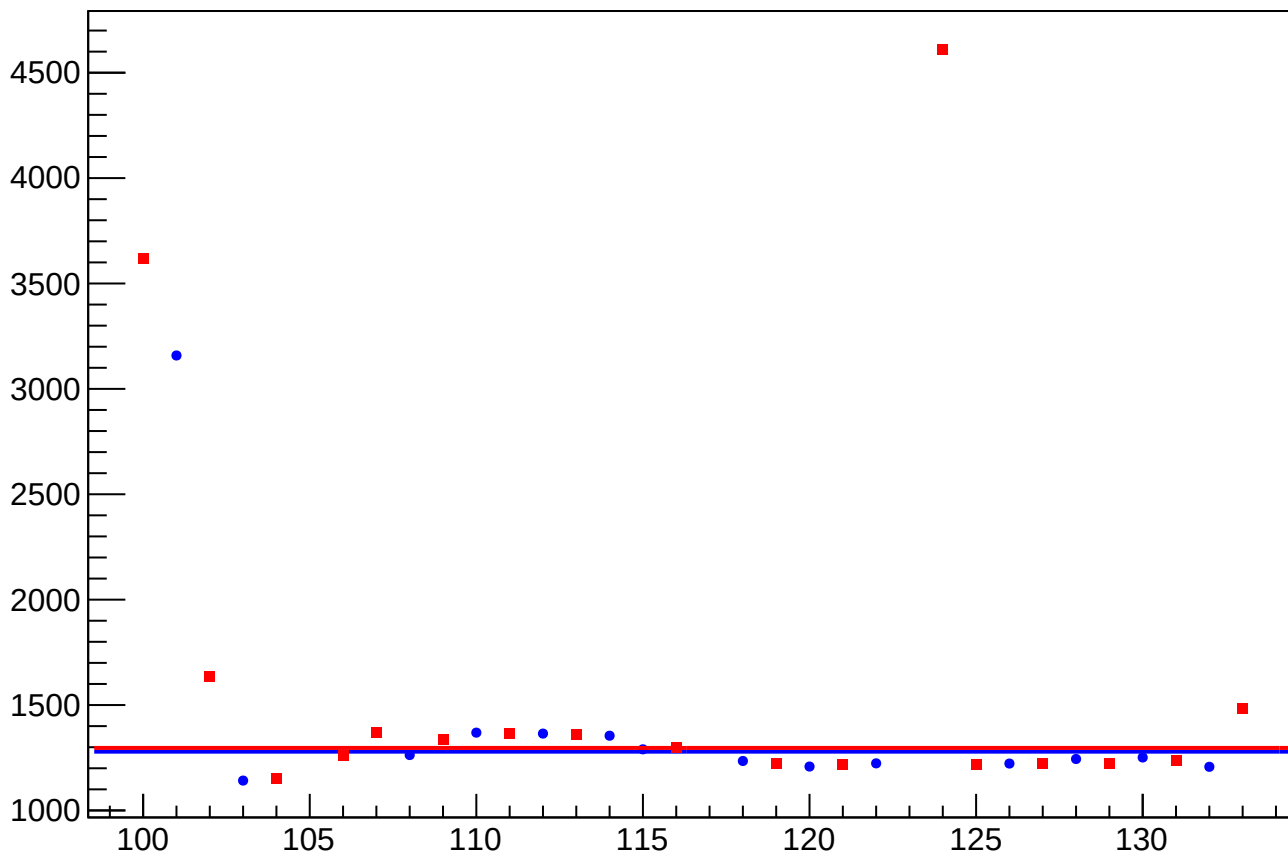
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-160.573 \pm 370.684$   $\chi^2/\text{NDF}$ : 25.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 1278.879+/-0.379  $\chi^2/\text{NDF}$ : 500878.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1296.555+/-0.362  $\chi^2/\text{NDF}$ : 318960.1/16

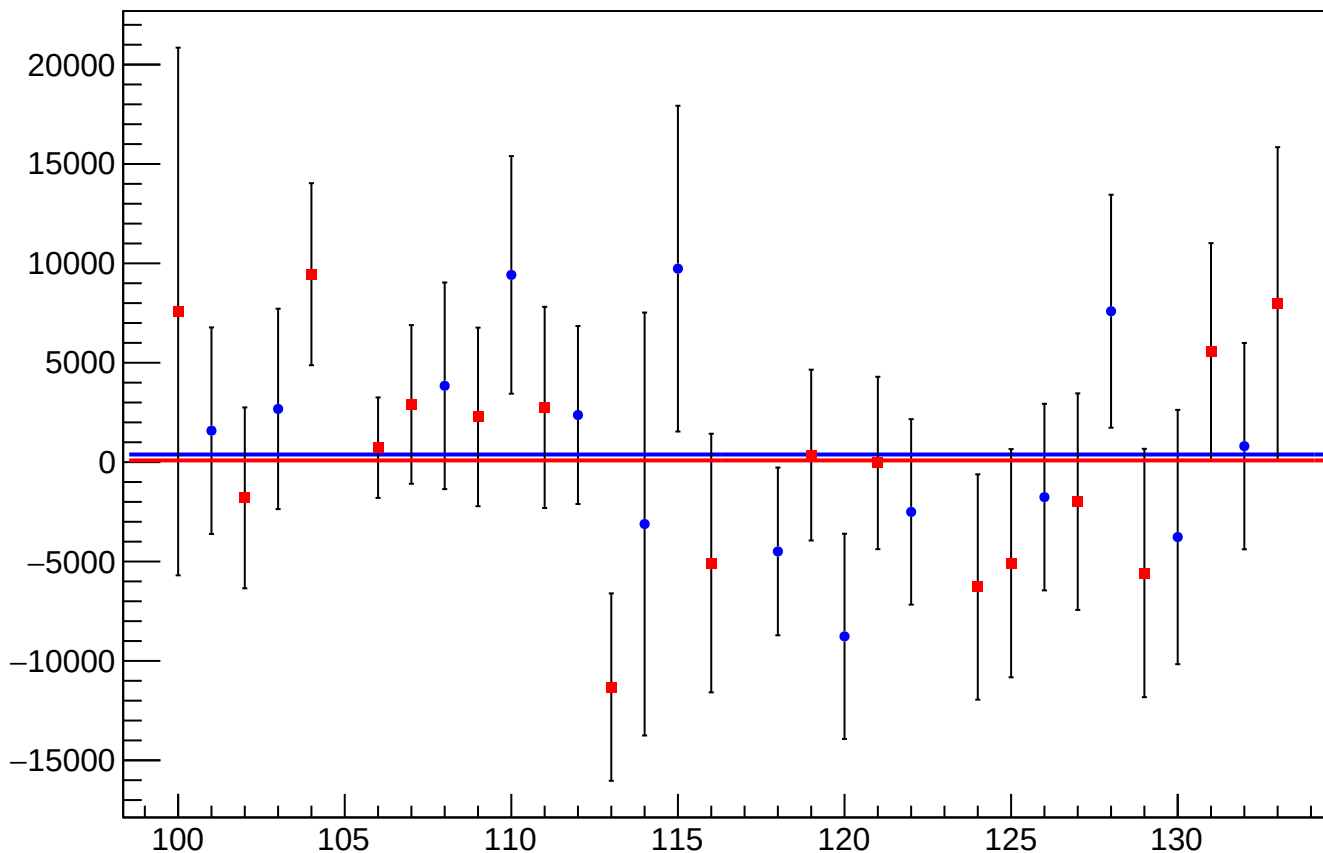
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1288.116+/-0.262  $\chi^2/\text{NDF}$ : 820976.3/30

- 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: 384.055+/-1427.553  $\chi^2/\text{NDF}$ : 11.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 86.795+/-1150.348  $\chi^2/\text{NDF}$ : 17.3/16

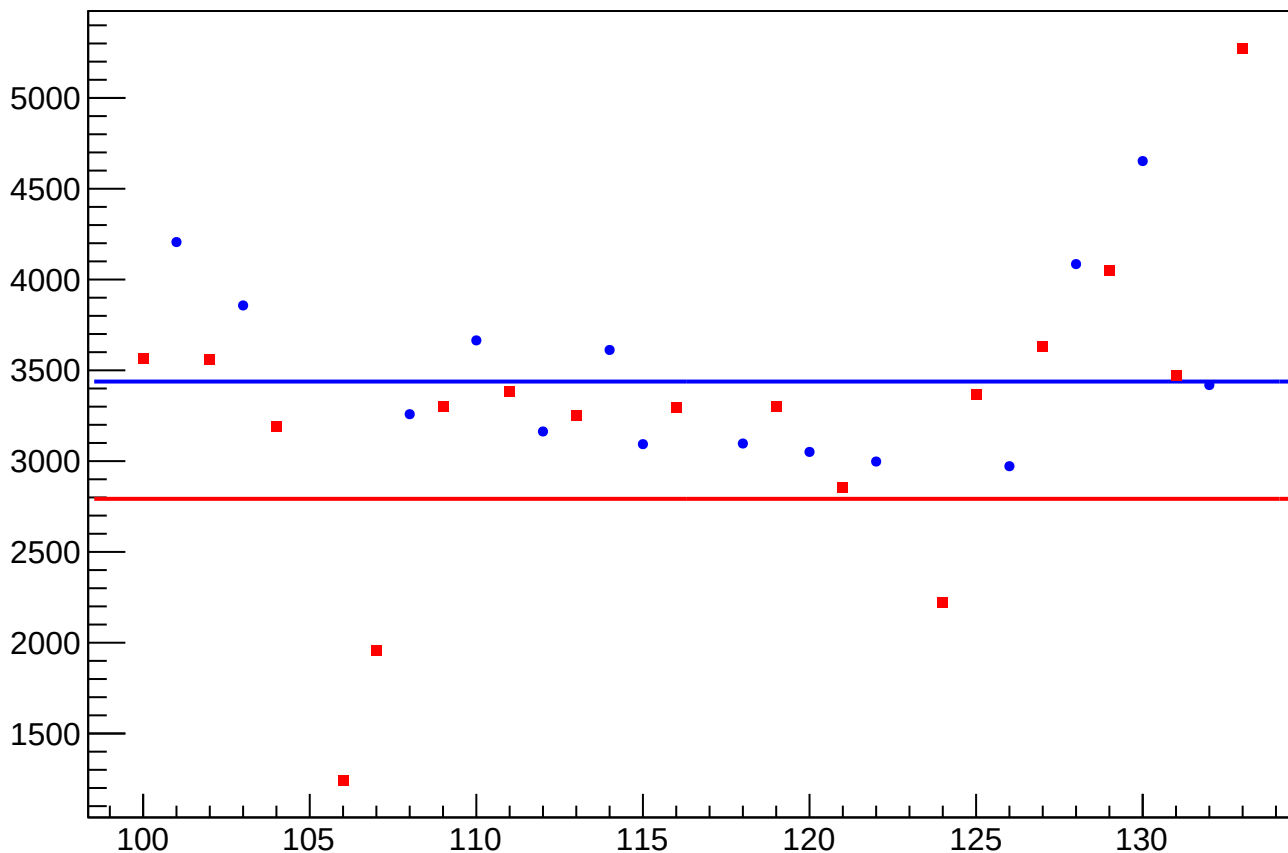
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 203.826+/-895.723  $\chi^2/\text{NDF}$ : 28.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_reg\_correction\_rms vs Slug



Right In: 3438.273+/-1.009  $\chi^2/\text{NDF}$ : 232786.0/13

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: 2792.290+/-0.813  $\chi^2/\text{NDF}$ : 1429809.5/16

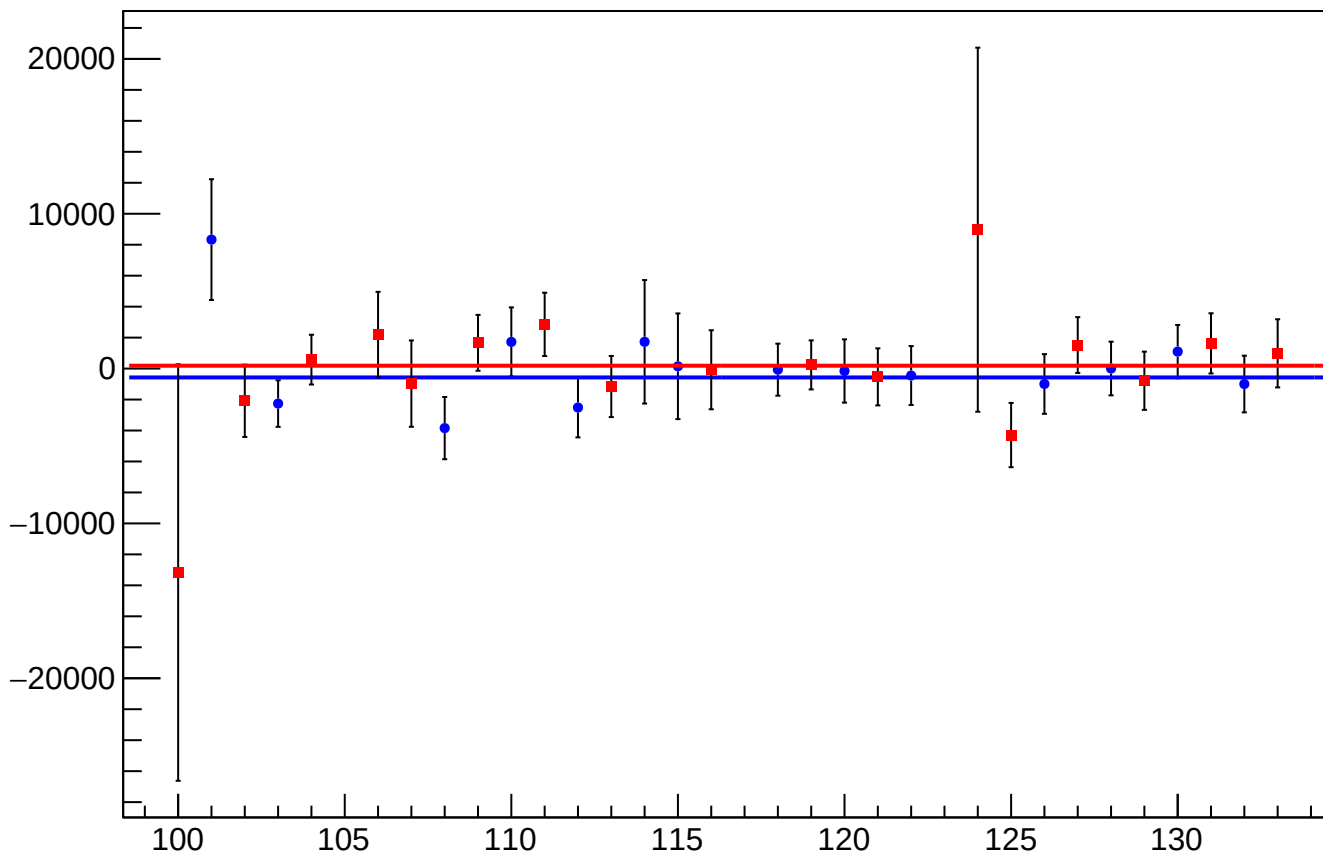
All: 3046.612+/-0.633  $\chi^2/\text{NDF}$ : 1910895.1/30

- 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\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -572.381+/-535.663  $\chi^2/\text{NDF}$ : 12.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 185.468+/-513.871  $\chi^2/\text{NDF}$ : 12.4/16

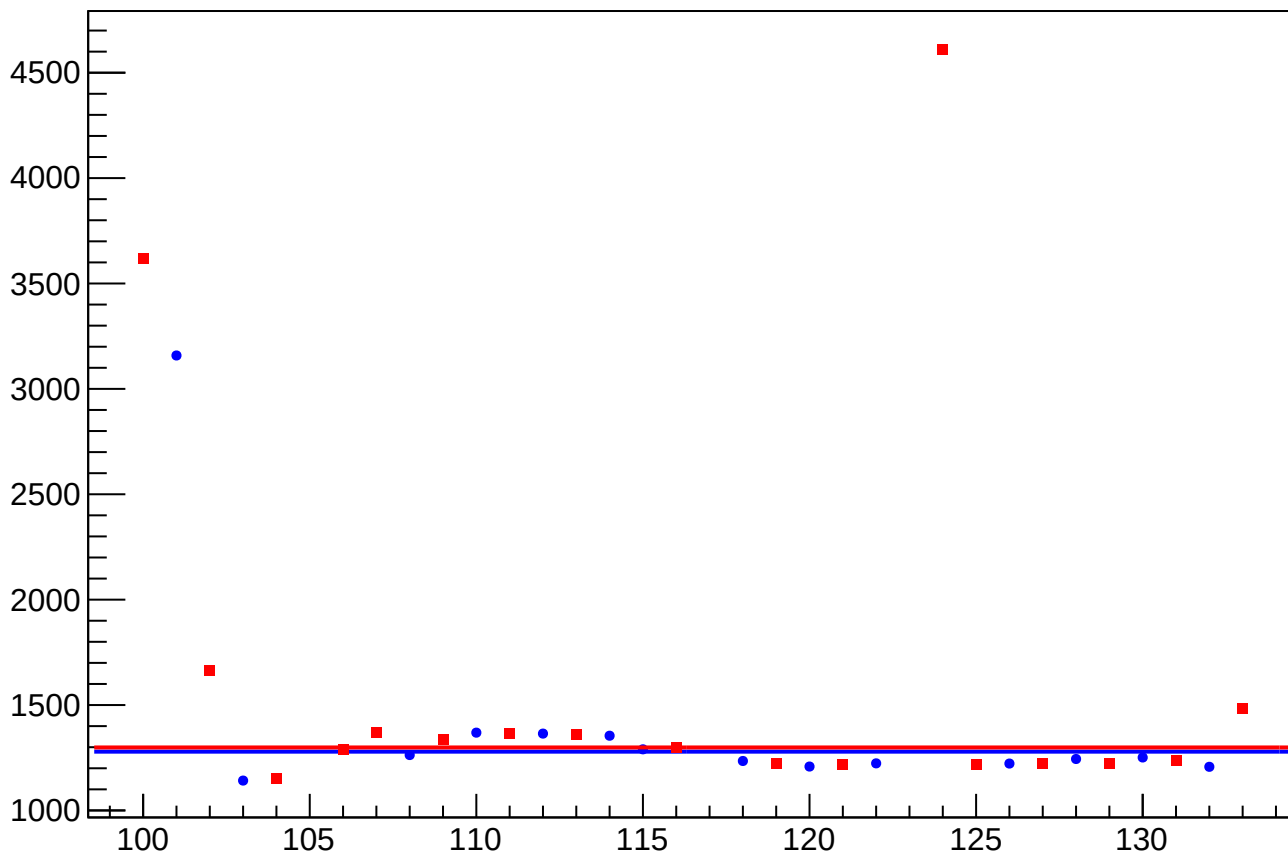
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -177.728+/-370.827  $\chi^2/\text{NDF}$ : 26.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 1278.879+/-0.379  $\chi^2/\text{NDF}$ : 500879.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1298.796+/-0.363  $\chi^2/\text{NDF}$ : 325561.1/16

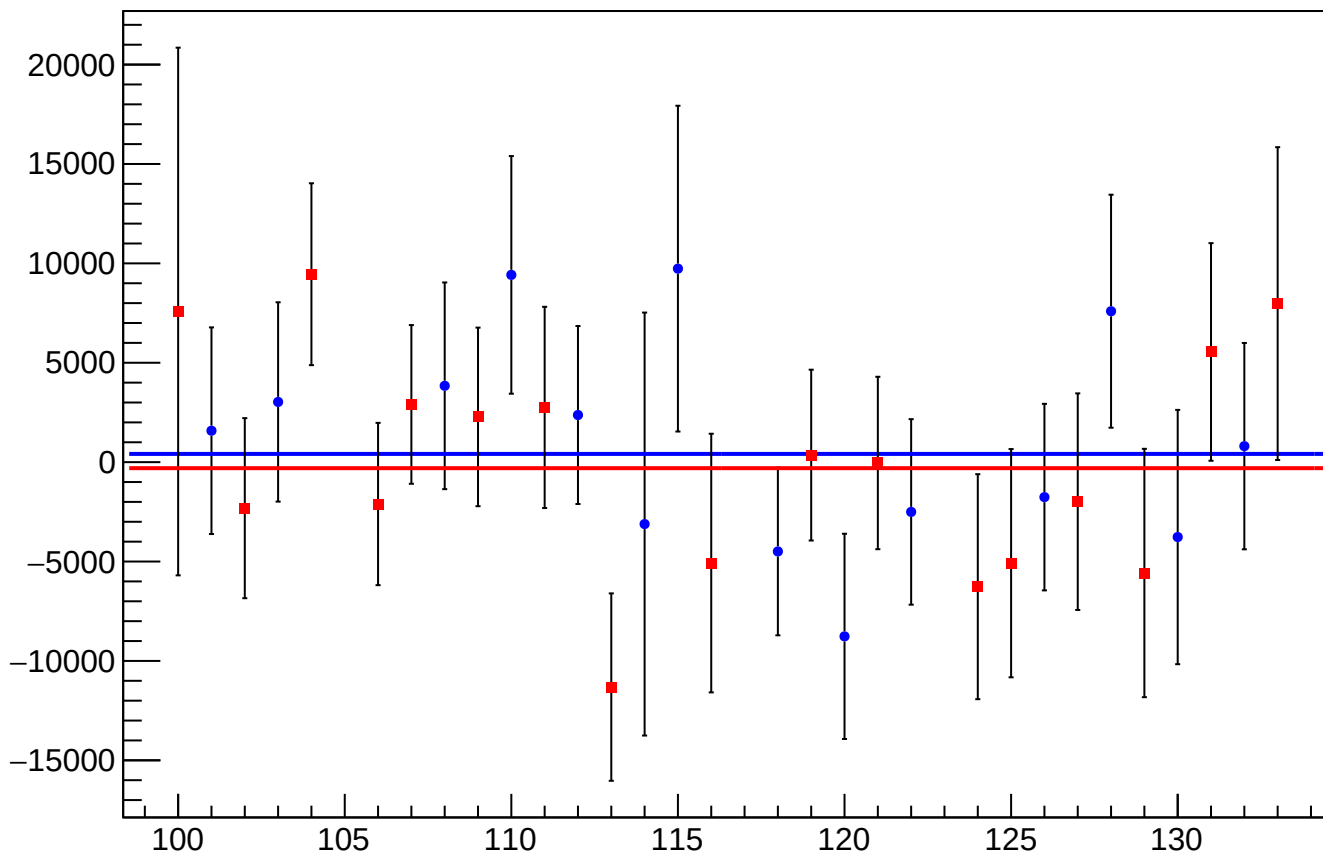
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1289.271+/-0.262  $\chi^2/\text{NDF}$ : 827883.3/30

- 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: 414.235 $\pm$ 1426.984  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -302.867 $\pm$ 1230.941  $\chi^2$ /NDF: 17.5/16

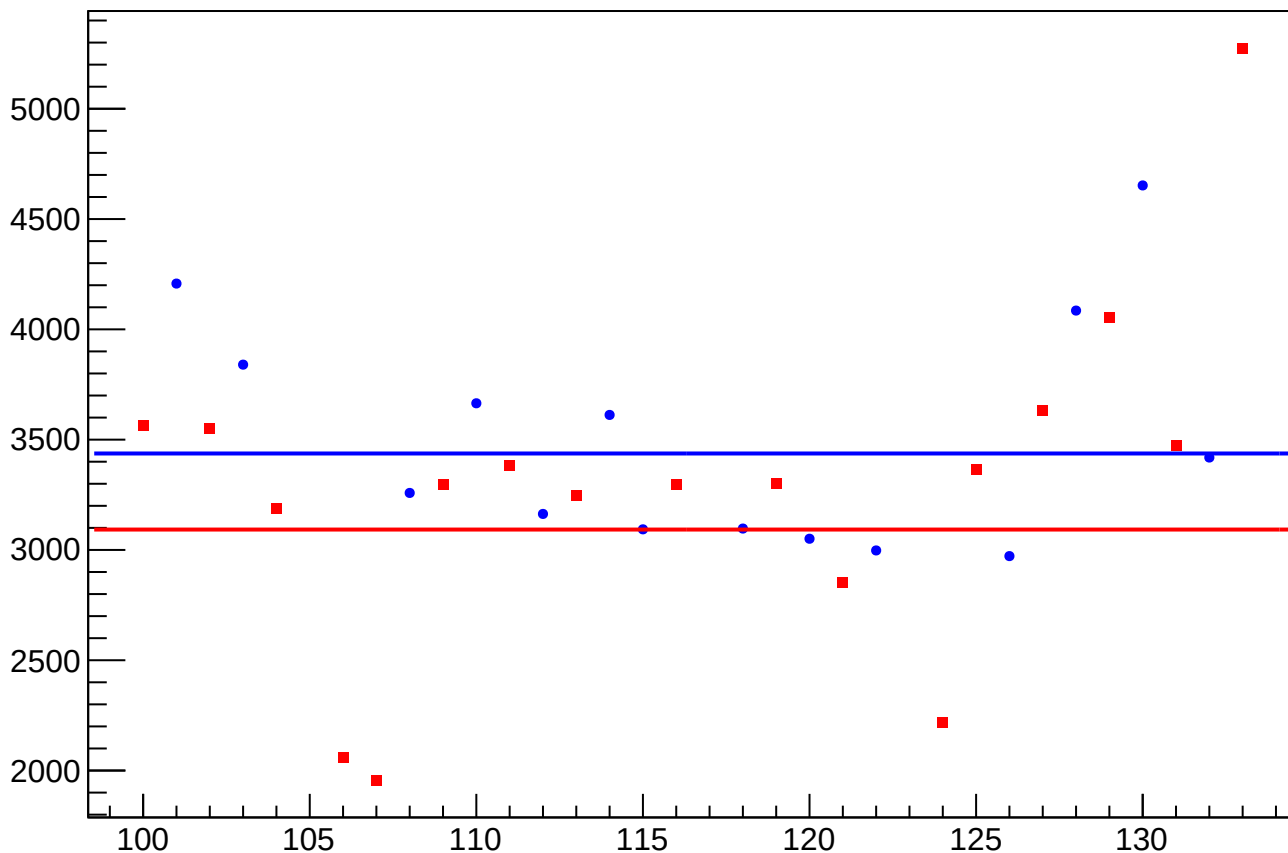
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.078 $\pm$ 932.074  $\chi^2$ /NDF: 29.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_cor\_correction\_rms vs Slug



Right In: 3437.268+/-1.009  $\chi^2/\text{NDF}$ : 231903.7/13

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

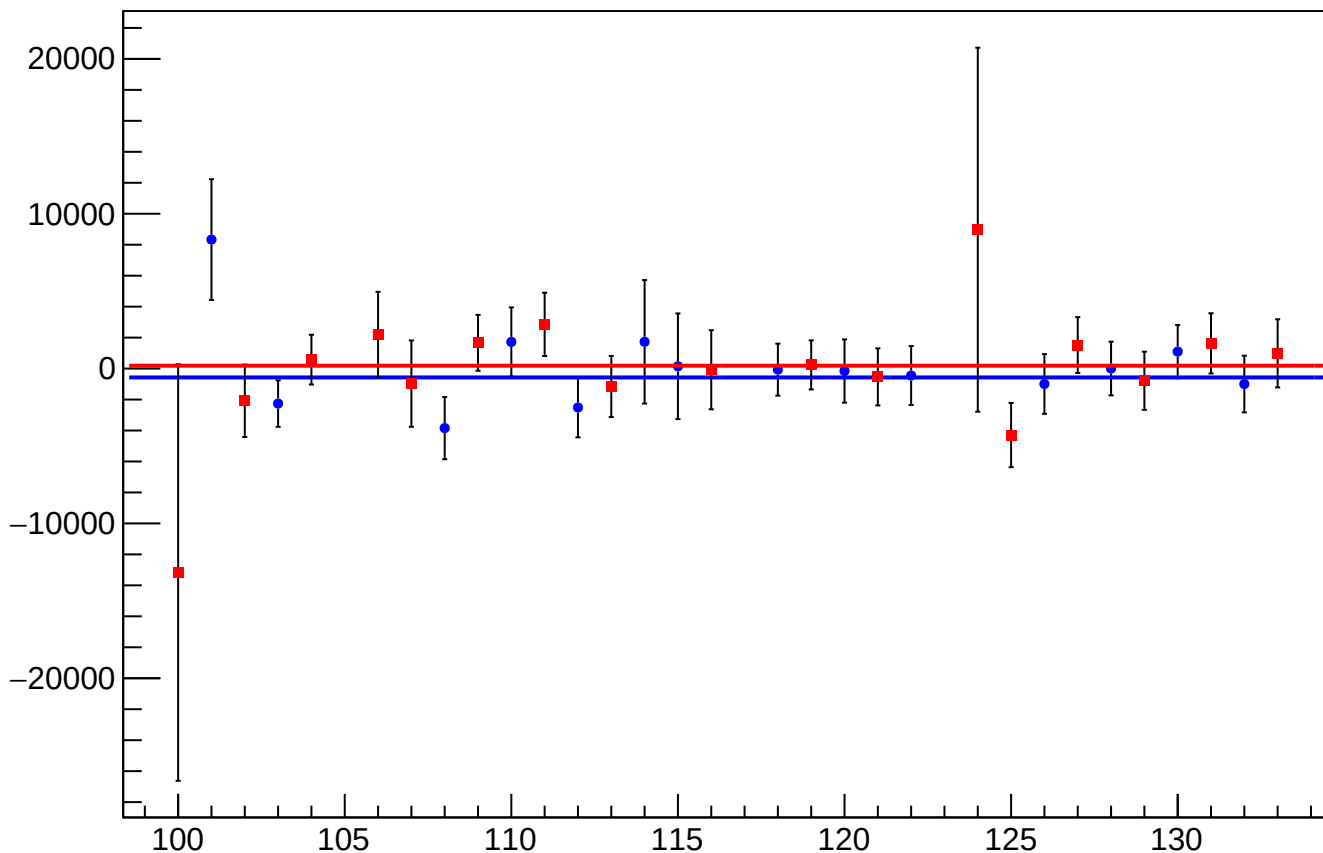
Right Out: 3092.446+/-0.870  $\chi^2/\text{NDF}$ : 621572.7/16

All: 3239.561+/-0.659  $\chi^2/\text{NDF}$ : 920435.5/30

- 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\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -572.381+/-535.663  $\chi^2/\text{NDF}$ : 12.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 185.468+/-513.871  $\chi^2/\text{NDF}$ : 12.4/16

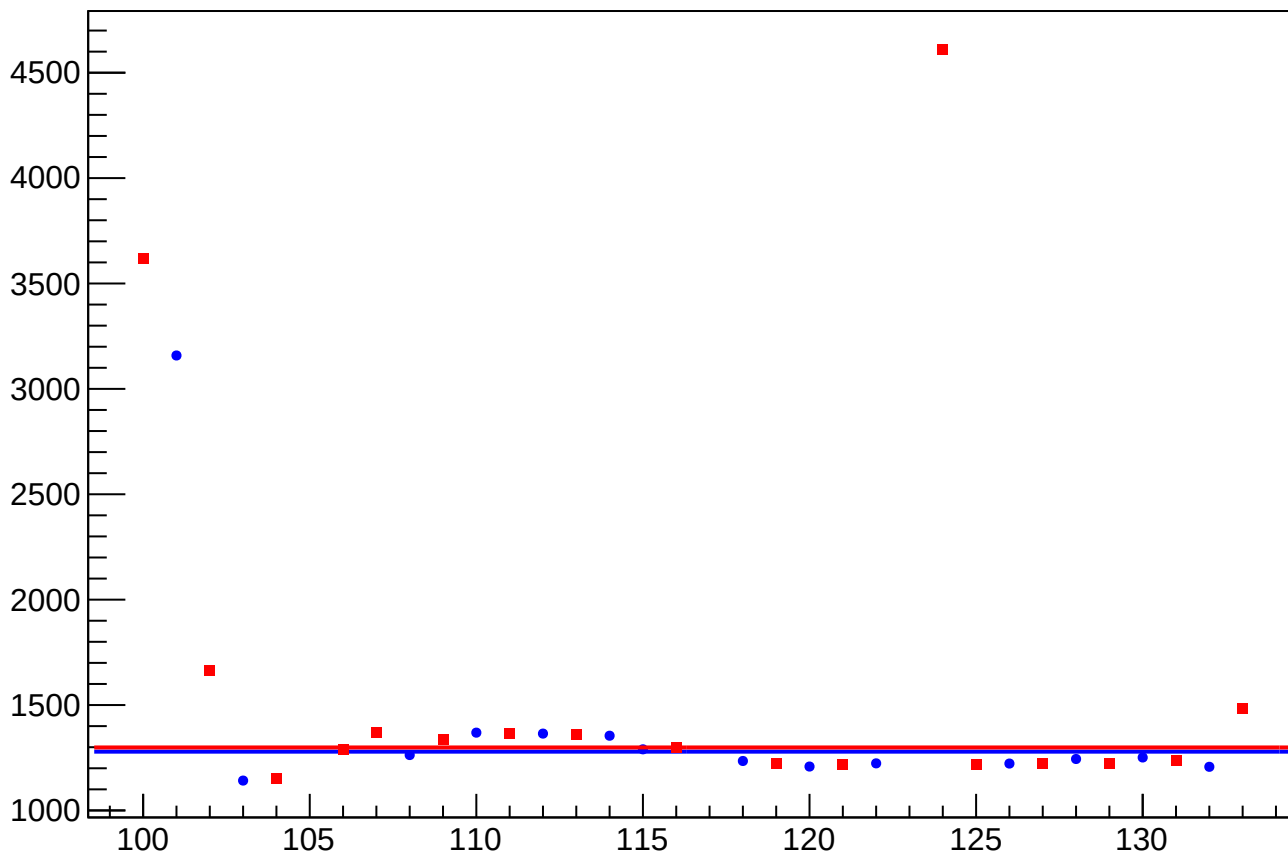
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -177.728+/-370.827  $\chi^2/\text{NDF}$ : 26.3/30

- 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: 1278.879+/-0.379  $\chi^2/\text{NDF}$ : 500879.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1298.796+/-0.363  $\chi^2/\text{NDF}$ : 325561.1/16

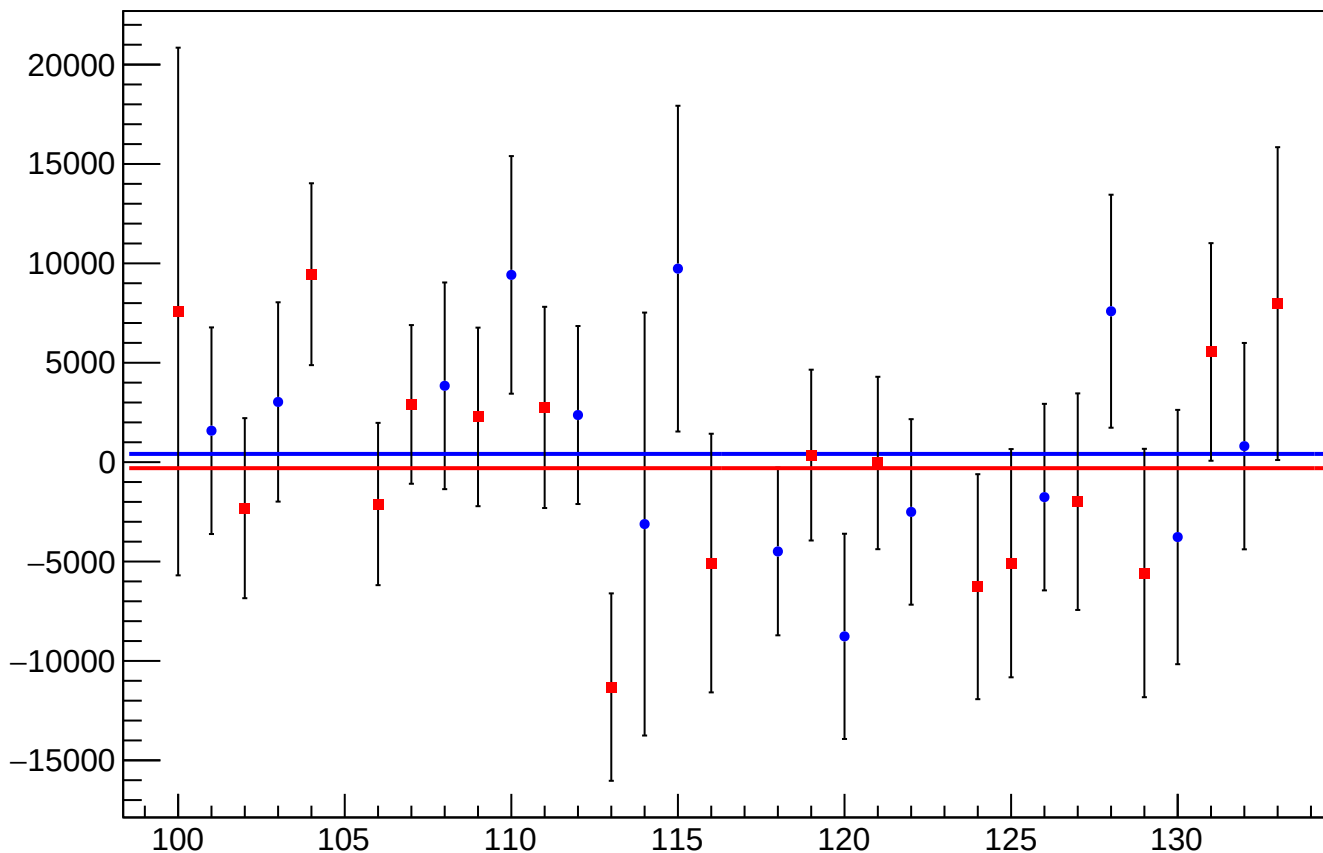
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1289.271+/-0.262  $\chi^2/\text{NDF}$ : 827883.3/30

- 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: 414.235 $\pm$ 1426.984  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -302.867 $\pm$ 1230.941  $\chi^2$ /NDF: 17.5/16

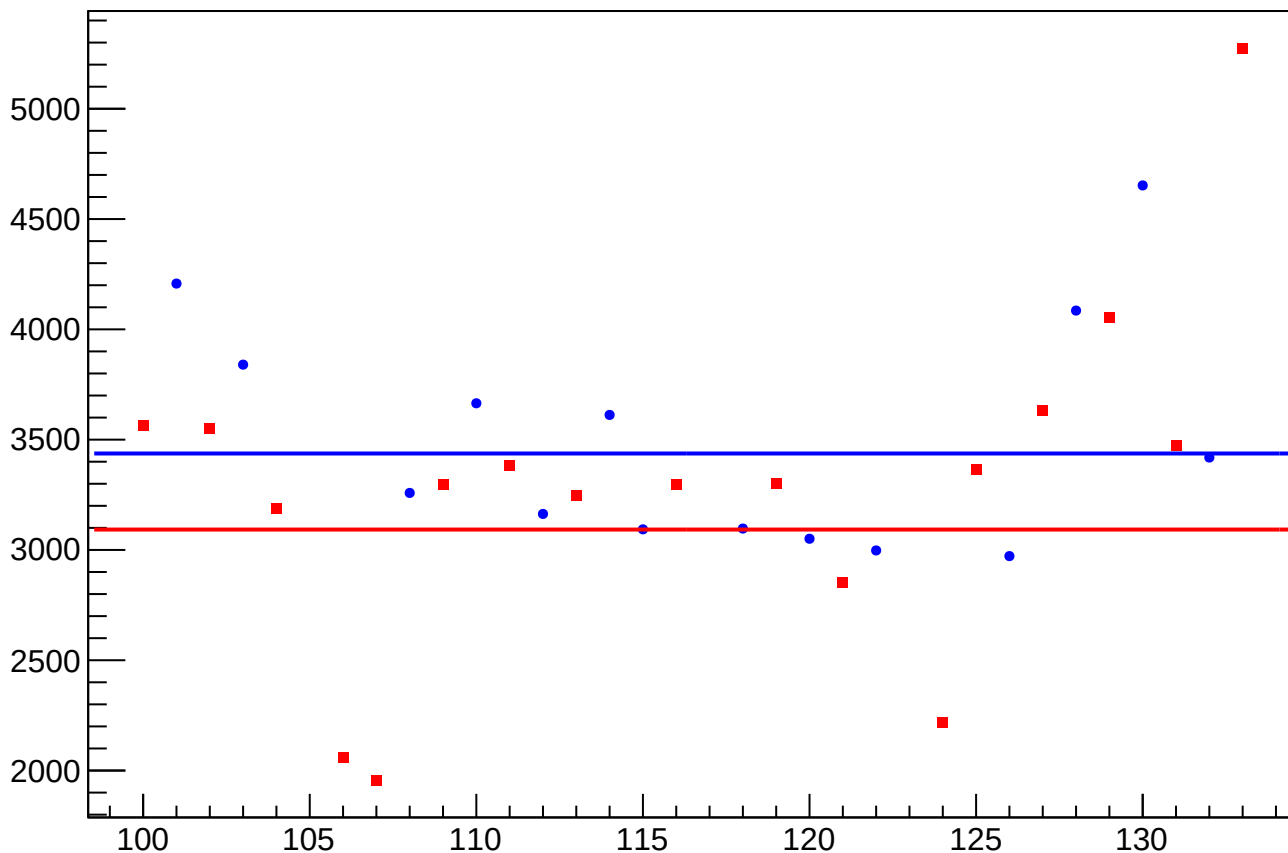
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.078 $\pm$ 932.074  $\chi^2$ /NDF: 29.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3437.268+/-1.009  $\chi^2/\text{NDF}$ : 231903.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3092.446+/-0.870  $\chi^2/\text{NDF}$ : 621572.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

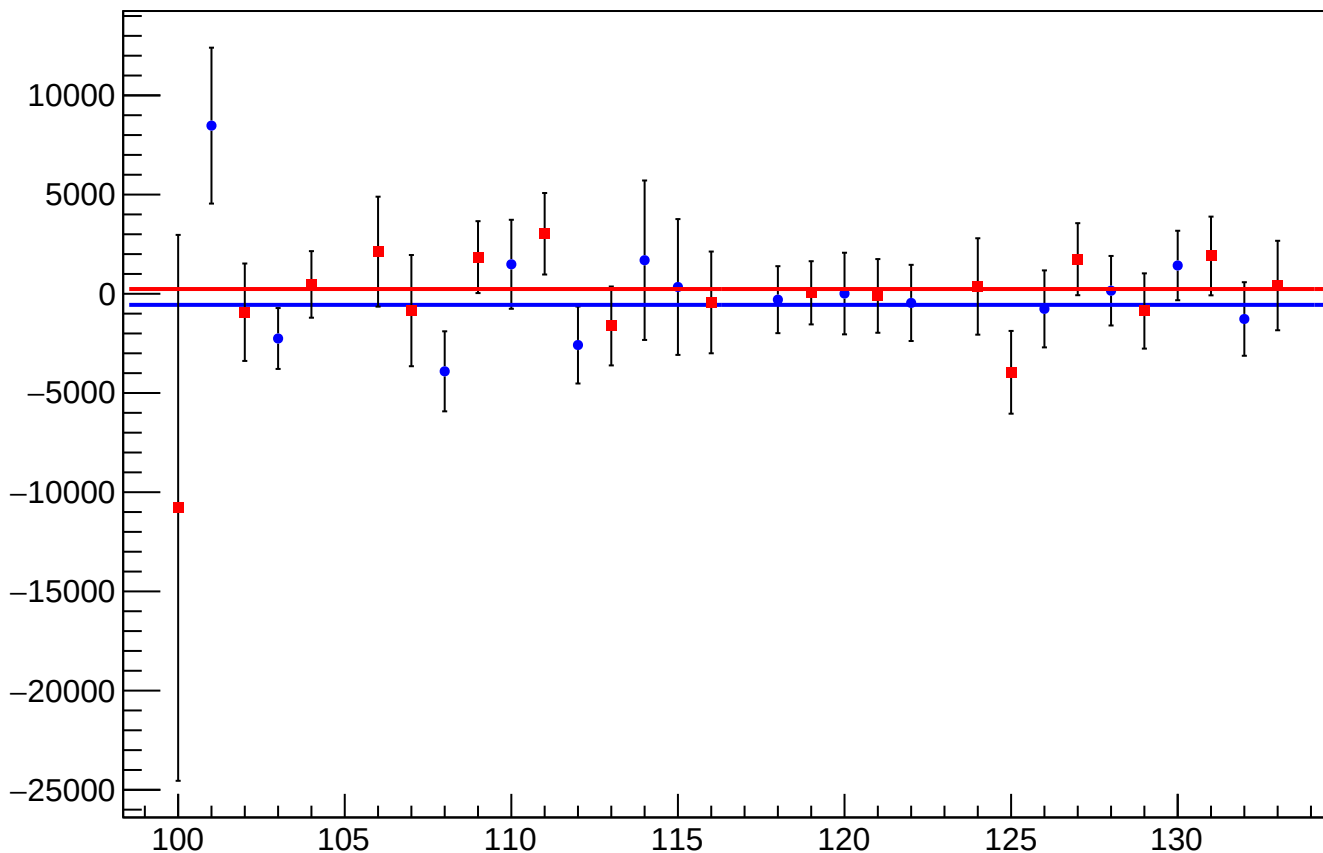
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3239.561+/-0.659  $\chi^2/\text{NDF}$ : 920435.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -558.551+/-541.173  $\chi^2/\text{NDF}$ : 13.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 240.257+/-509.871  $\chi^2/\text{NDF}$ : 10.9/16

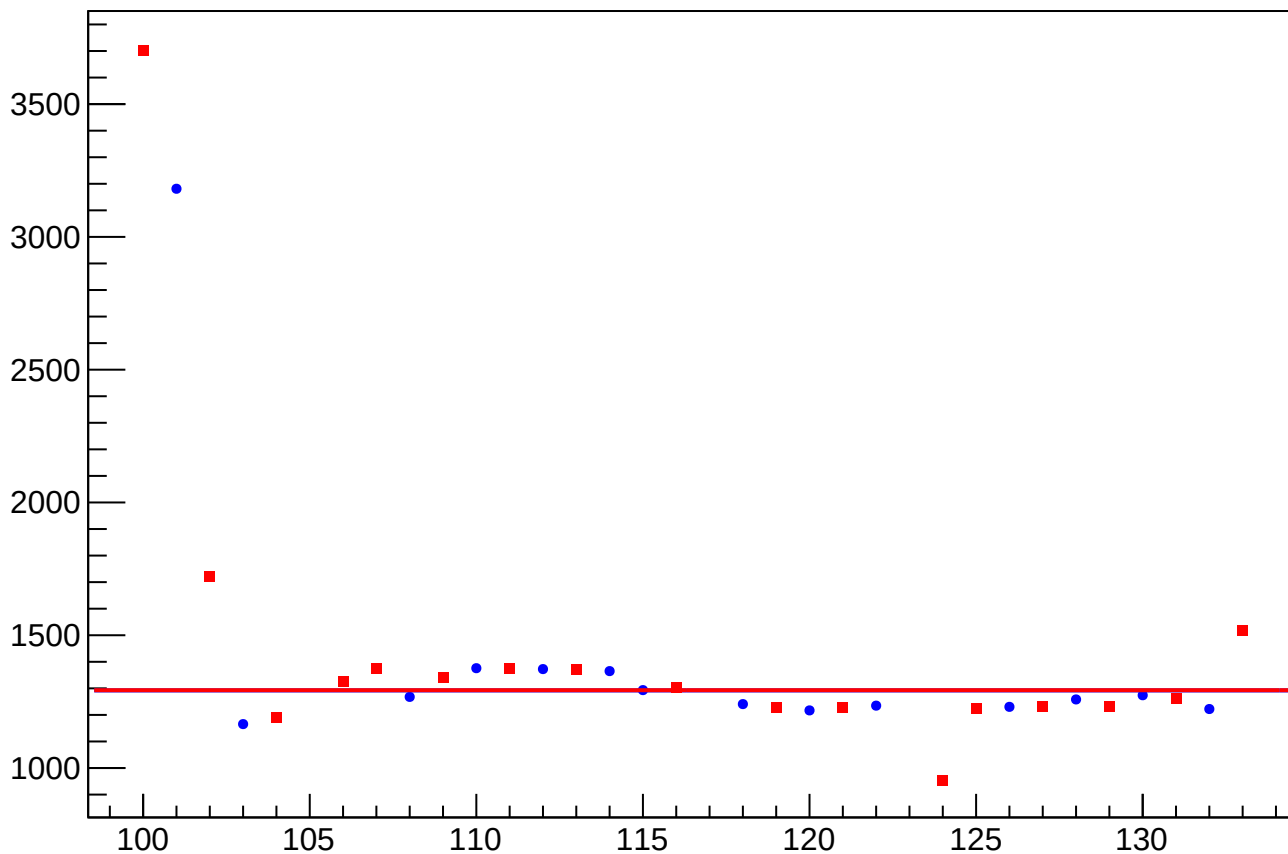
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -135.379+/-371.106  $\chi^2/\text{NDF}$ : 25.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit asym at1 avg at2 avg dd rms vs Slug



Right In: 1292.213+/-0.383     $\chi^2/\text{NDF}$ : 495291.6/13

+ 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

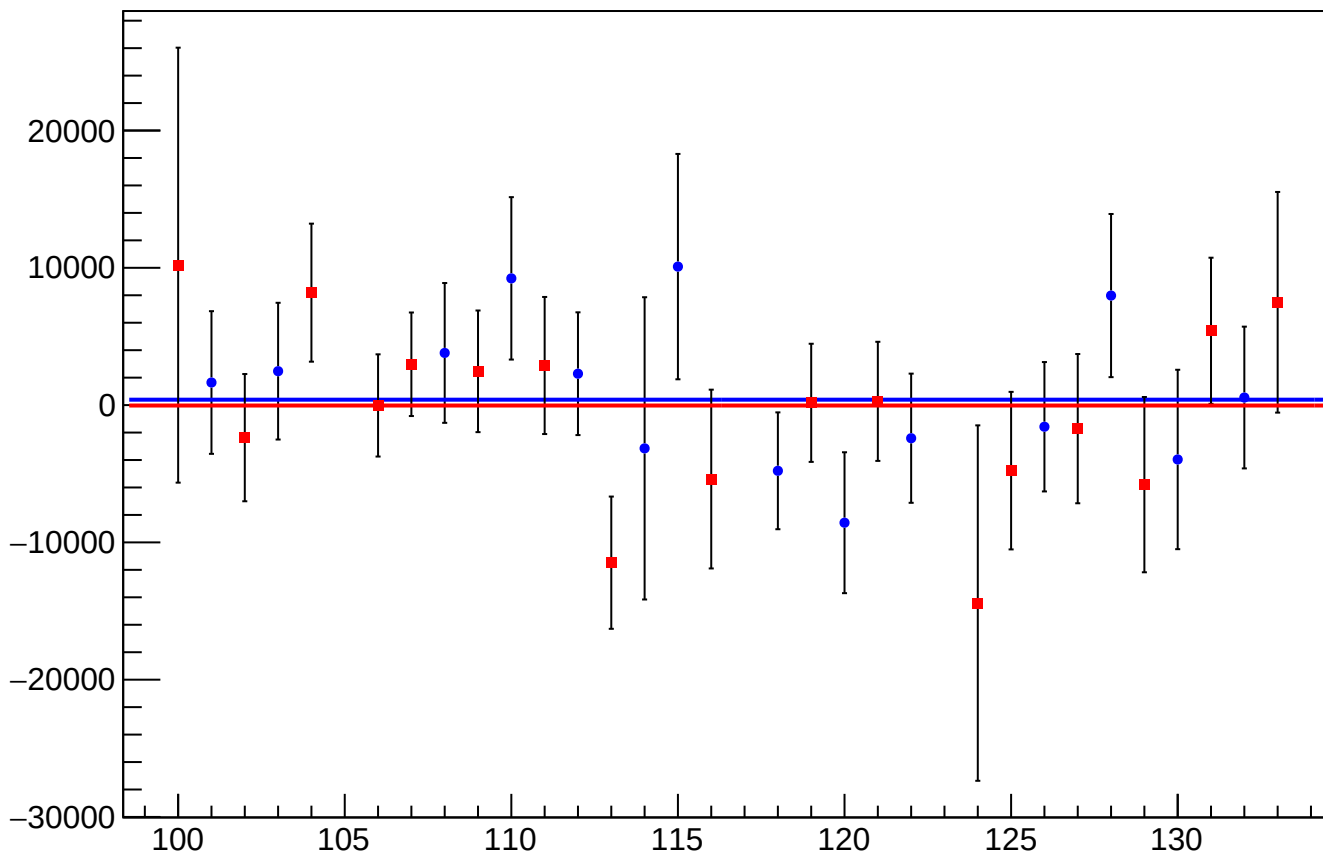
Right Out: 1293.041+/-0.360     $\chi^2/\text{NDF}$ : 211204.6/16

All: 1292.652+/-0.262     $\chi^2/\text{NDF}$ : 706498.6/30

- 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\_at2\_avg\_dd\_dit\_correction\_mean vs Slug



Right In: 394.695 $\pm$ 1428.125  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -30.502 $\pm$ 1247.043  $\chi^2$ /NDF: 15.7/16

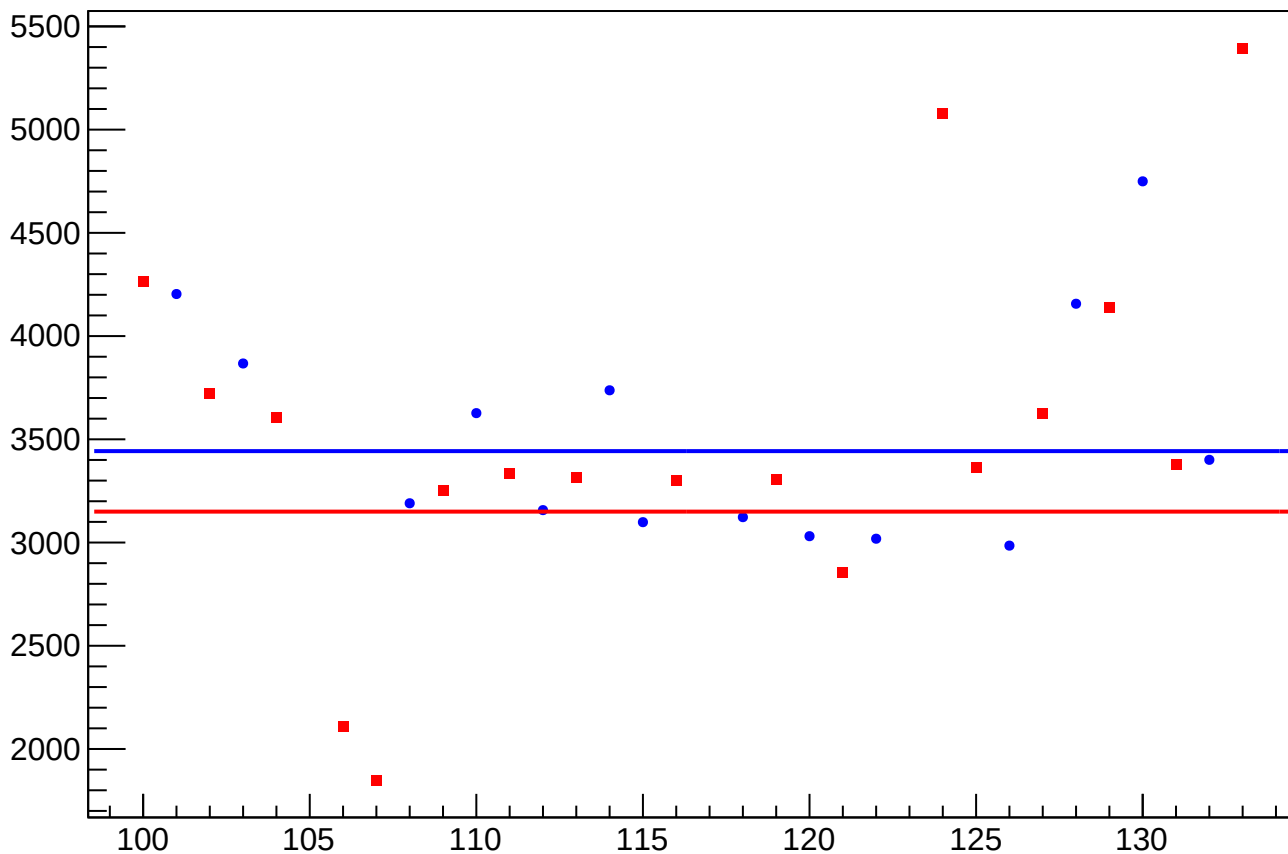
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 153.446 $\pm$ 939.331  $\chi^2$ /NDF: 27.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_dit\_correction\_rms vs Slug



Right In: 3442.793+/-1.010  $\chi^2/\text{NDF}$ : 245736.0/13

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

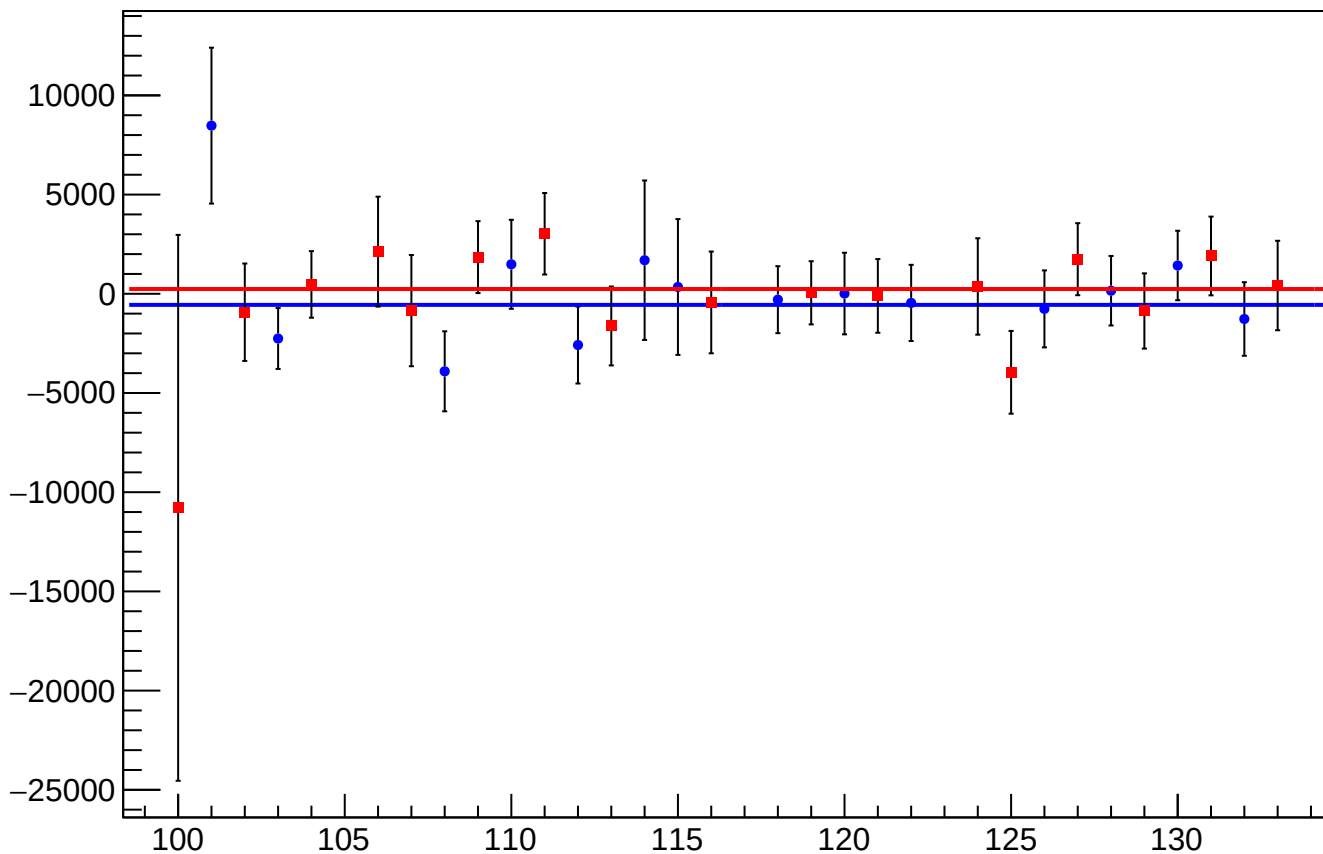
Right Out: 3149.771+/-0.882  $\chi^2/\text{NDF}$ : 741142.1/16

All: 3276.538+/-0.664  $\chi^2/\text{NDF}$ : 1034650.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -558.555 $\pm$ 541.173  $\chi^2$ /NDF: 13.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 240.262 $\pm$ 509.871  $\chi^2$ /NDF: 10.9/16

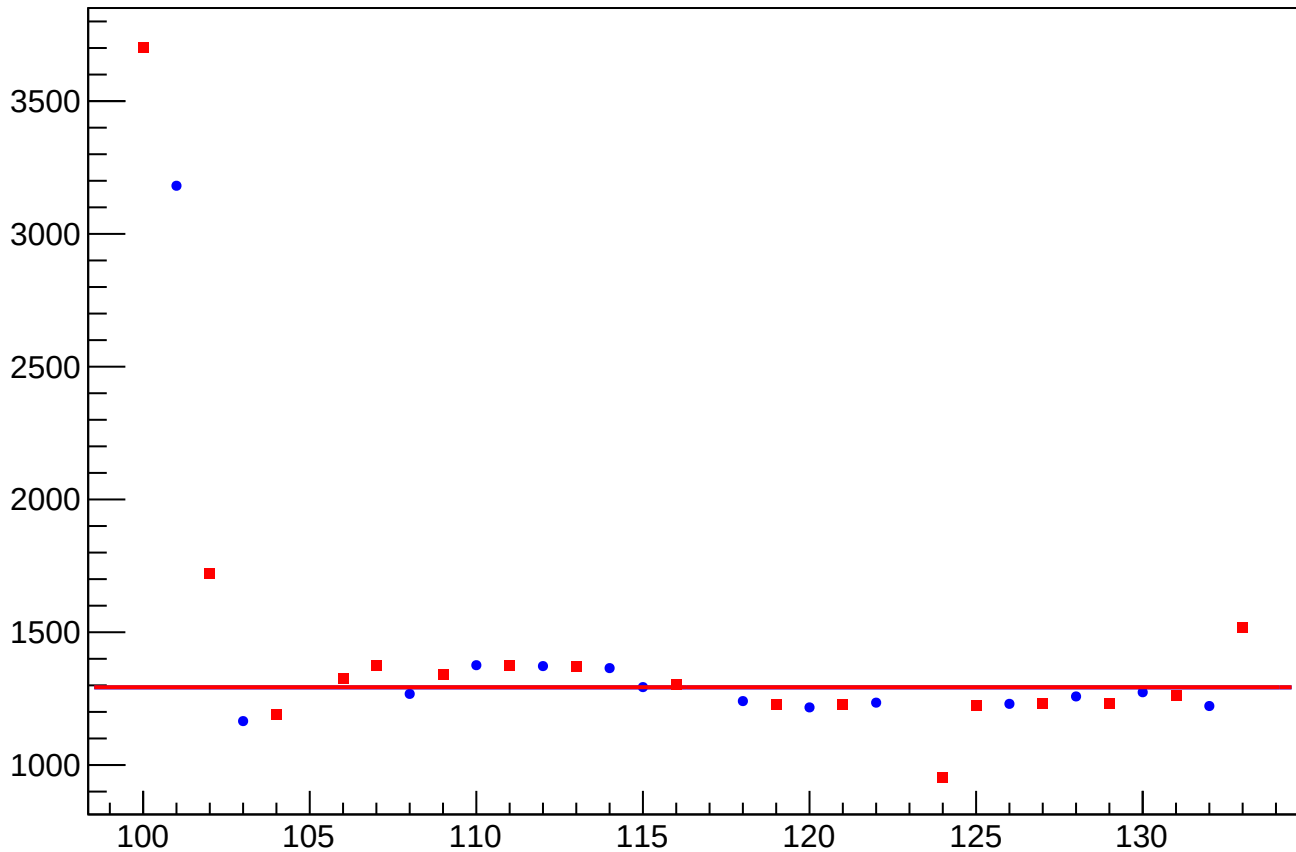
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -135.377 $\pm$ 371.106  $\chi^2$ /NDF: 25.3/30

- 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: 1292.213+/-0.383  $\chi^2/\text{NDF}$ : 495291.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1293.041+/-0.360  $\chi^2/\text{NDF}$ : 211204.6/16

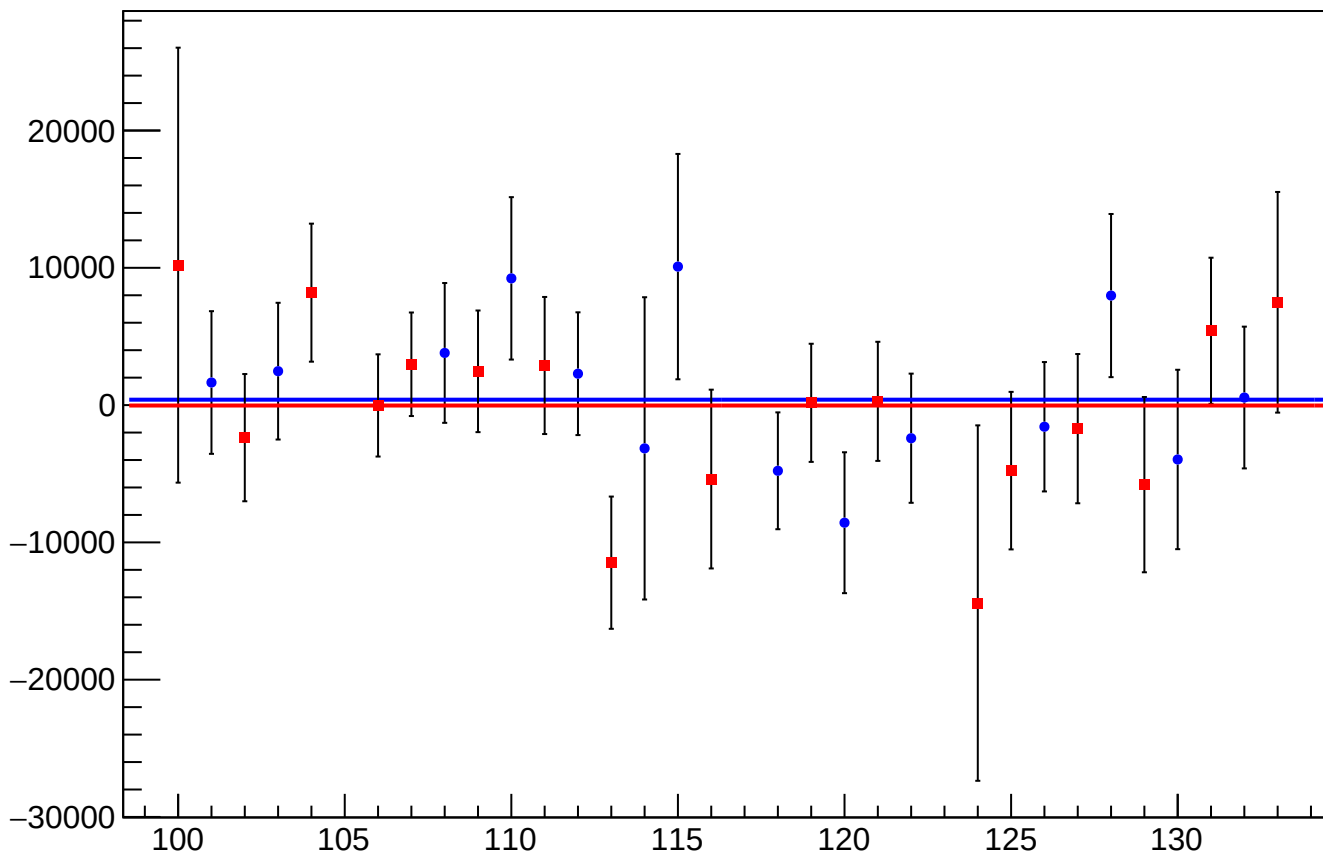
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1292.652+/-0.262  $\chi^2/\text{NDF}$ : 706498.7/30

- 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: 394.689 $\pm$ 1428.120  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -30.498 $\pm$ 1247.039  $\chi^2$ /NDF: 15.7/16

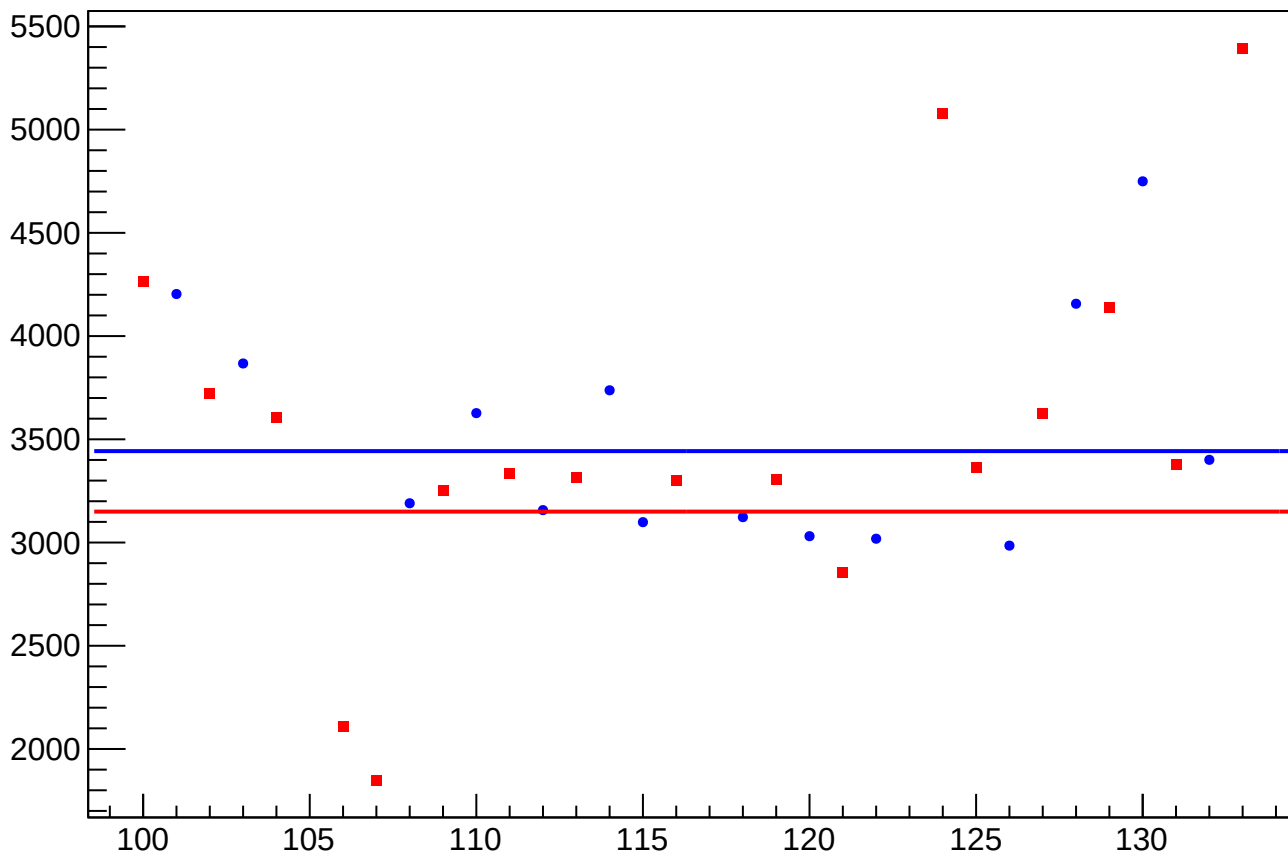
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 153.446 $\pm$ 939.329  $\chi^2$ /NDF: 27.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 3442.782+/-1.010  $\chi^2/\text{NDF}$ : 245738.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3149.762+/-0.882  $\chi^2/\text{NDF}$ : 741142.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

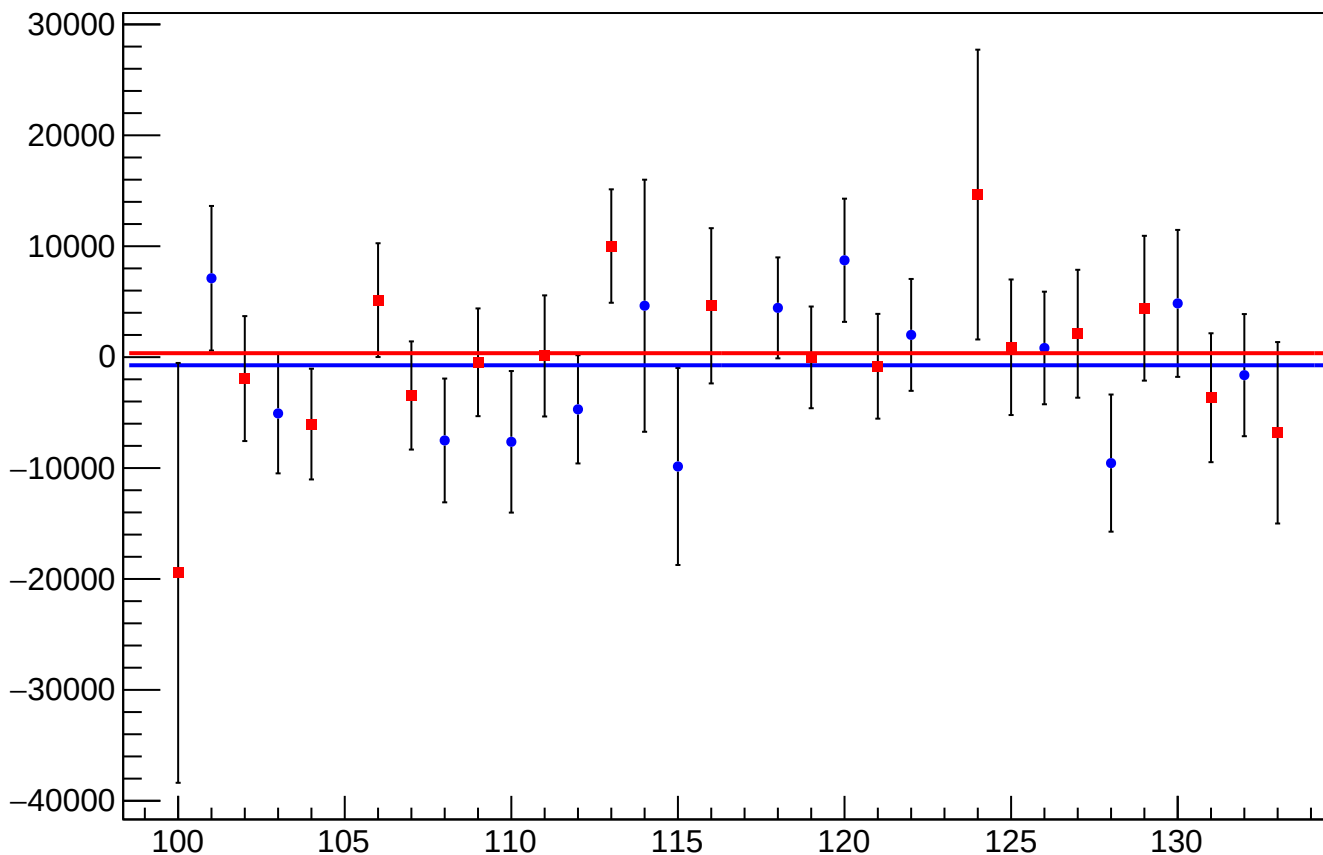
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3276.528+/-0.664  $\chi^2/\text{NDF}$ : 1034652.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug



Right In: -732.780+/-1547.449  $\chi^2/\text{NDF}$ : 14.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 356.476+/-1397.238  $\chi^2/\text{NDF}$ : 11.4/16

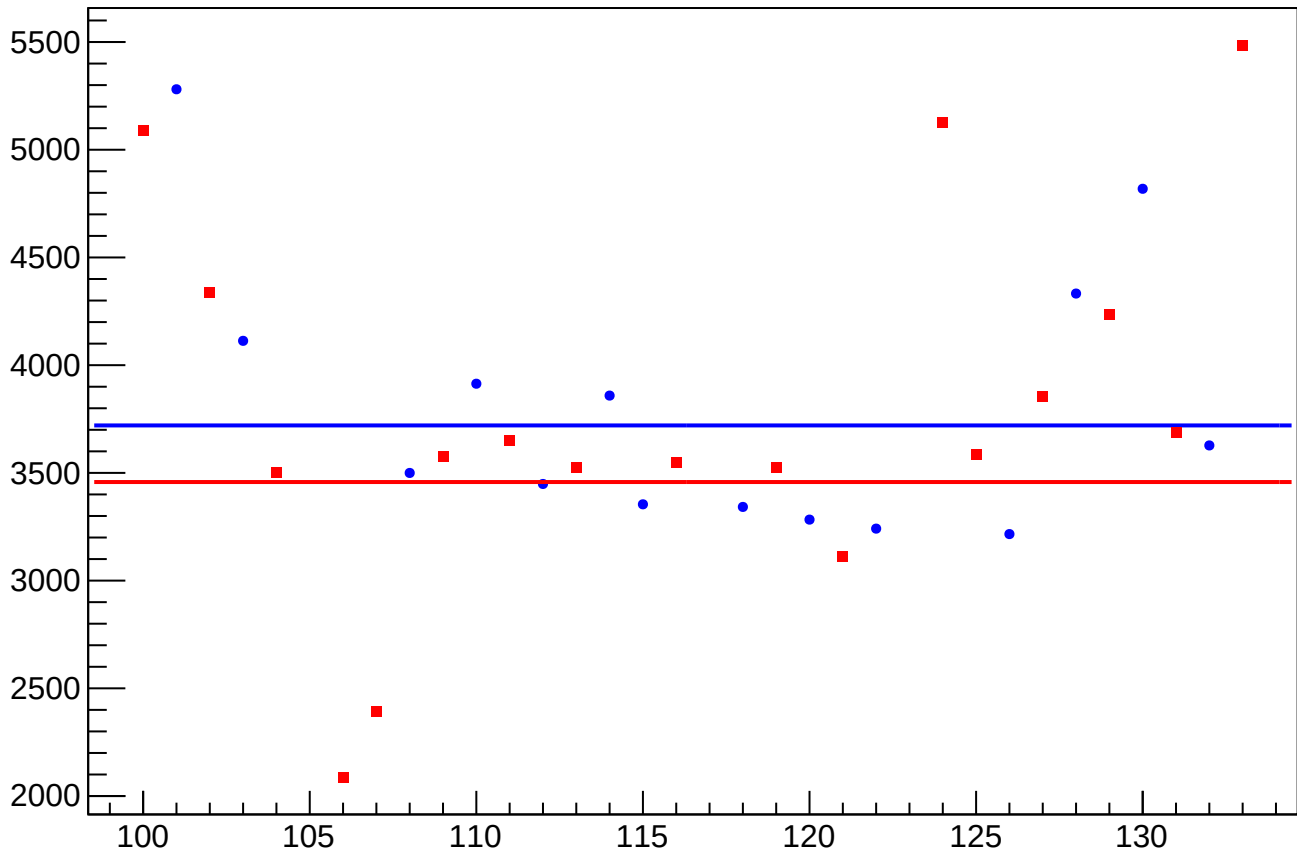
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -132.732+/-1037.047  $\chi^2/\text{NDF}$ : 25.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug



Right In: 3720.318+/-1.094  $\chi^2/\text{NDF}$ : 279184.5/13

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

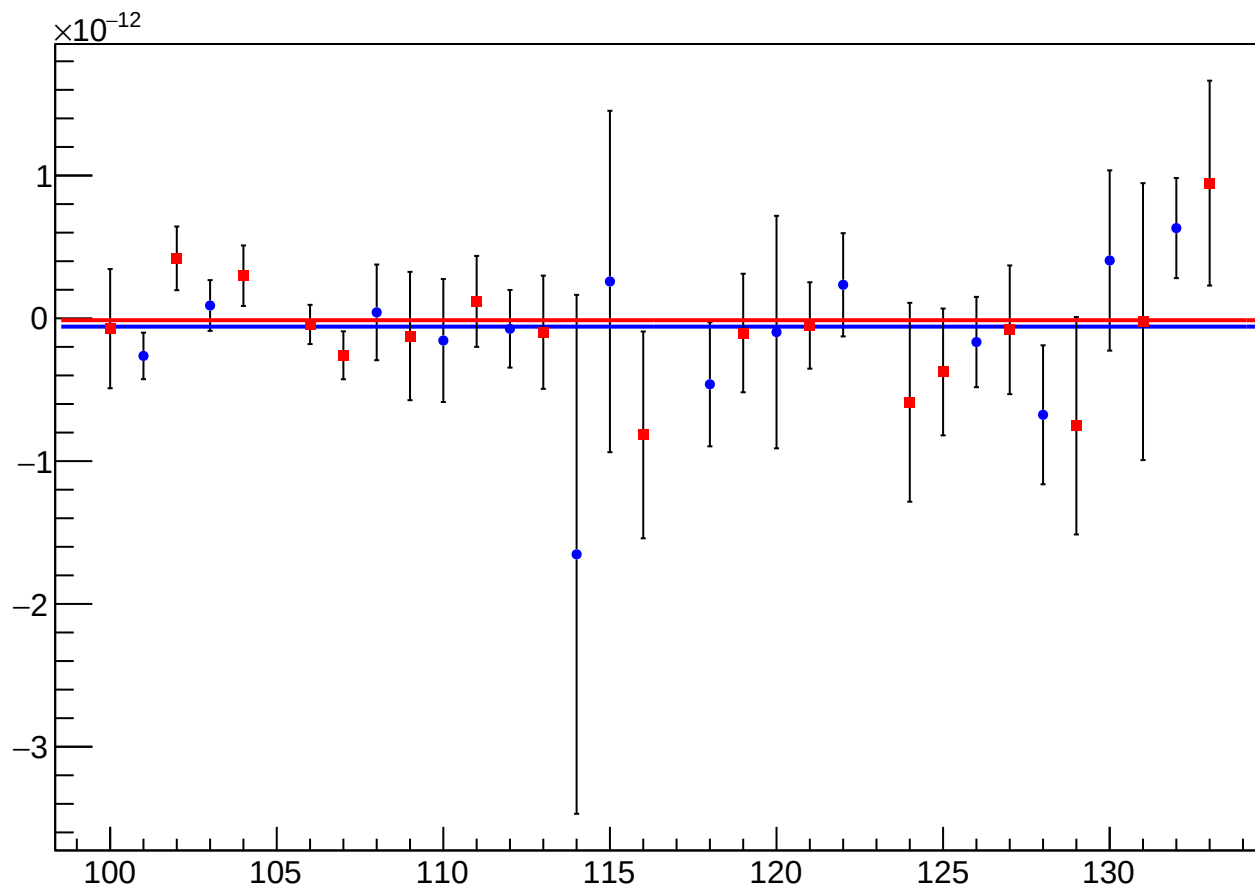
Right Out: 3457.587+/-0.973  $\chi^2/\text{NDF}$ : 572805.3/16

All: 3573.641+/-0.727  $\chi^2/\text{NDF}$ : 884176.9/30

- 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\_at2\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.8/16

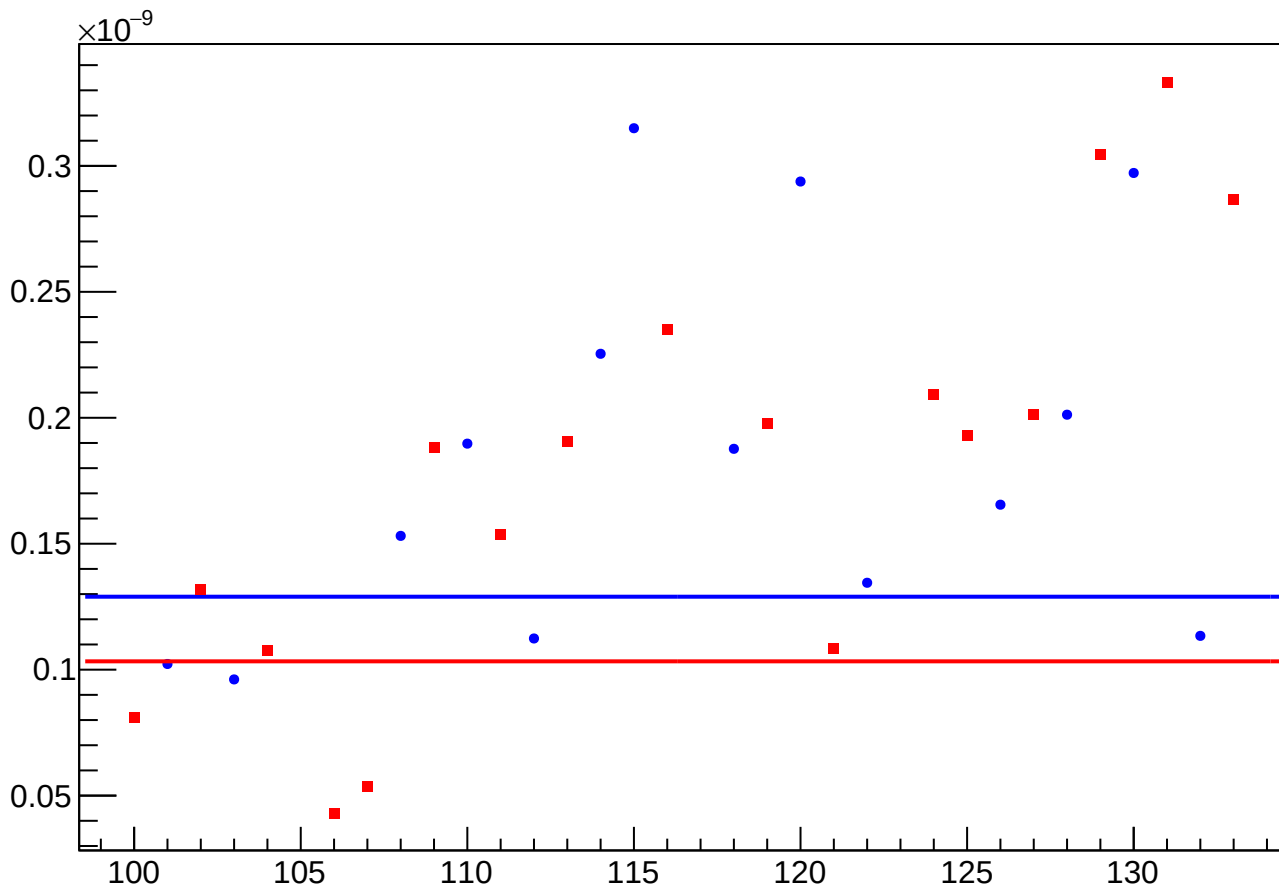
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 24.9/30

- 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  $\chi^2/\text{NDF}$ : 569496.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1596591.4/16

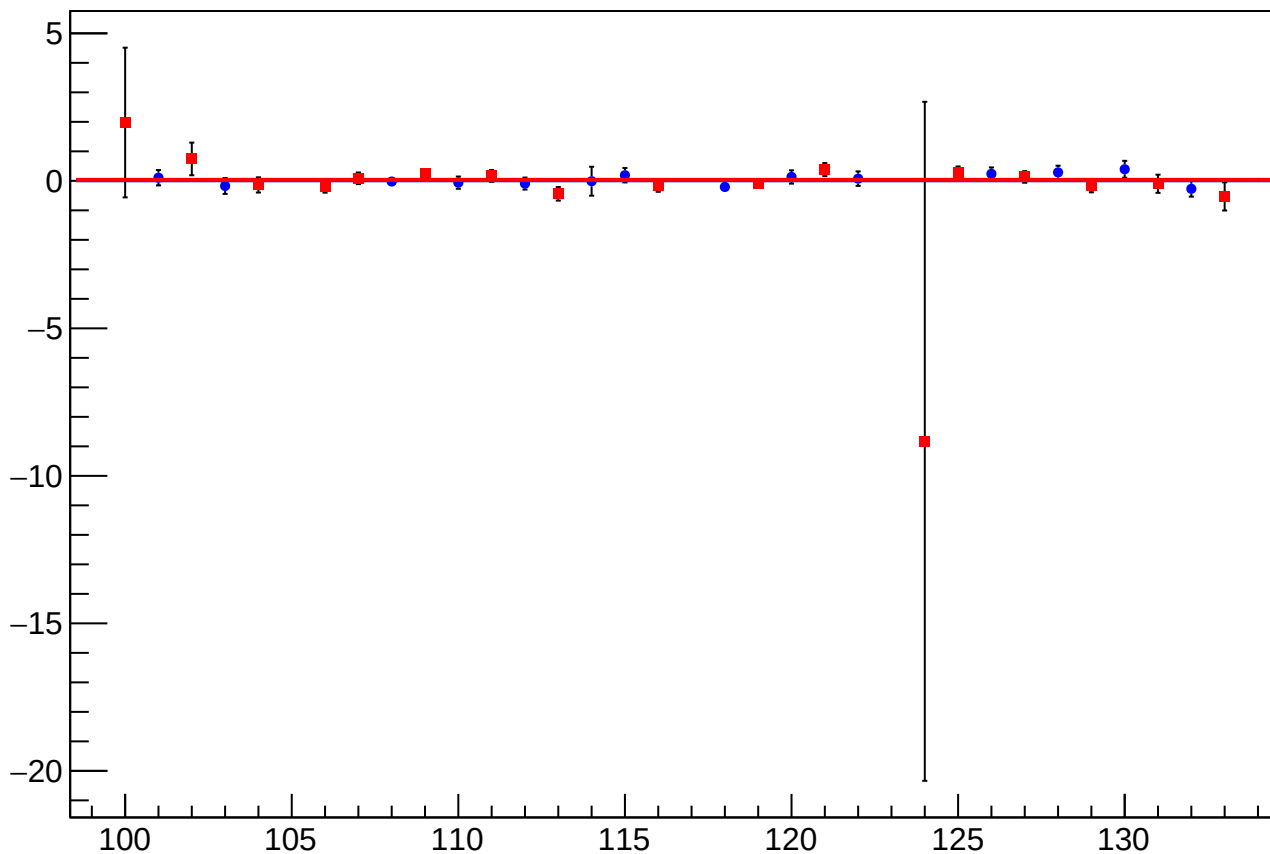
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2271899.8/30

- 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: 0.019 $\pm$ 0.060  $\chi^2$ /NDF: 9.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.034 $\pm$ 0.056  $\chi^2$ /NDF: 19.6/16

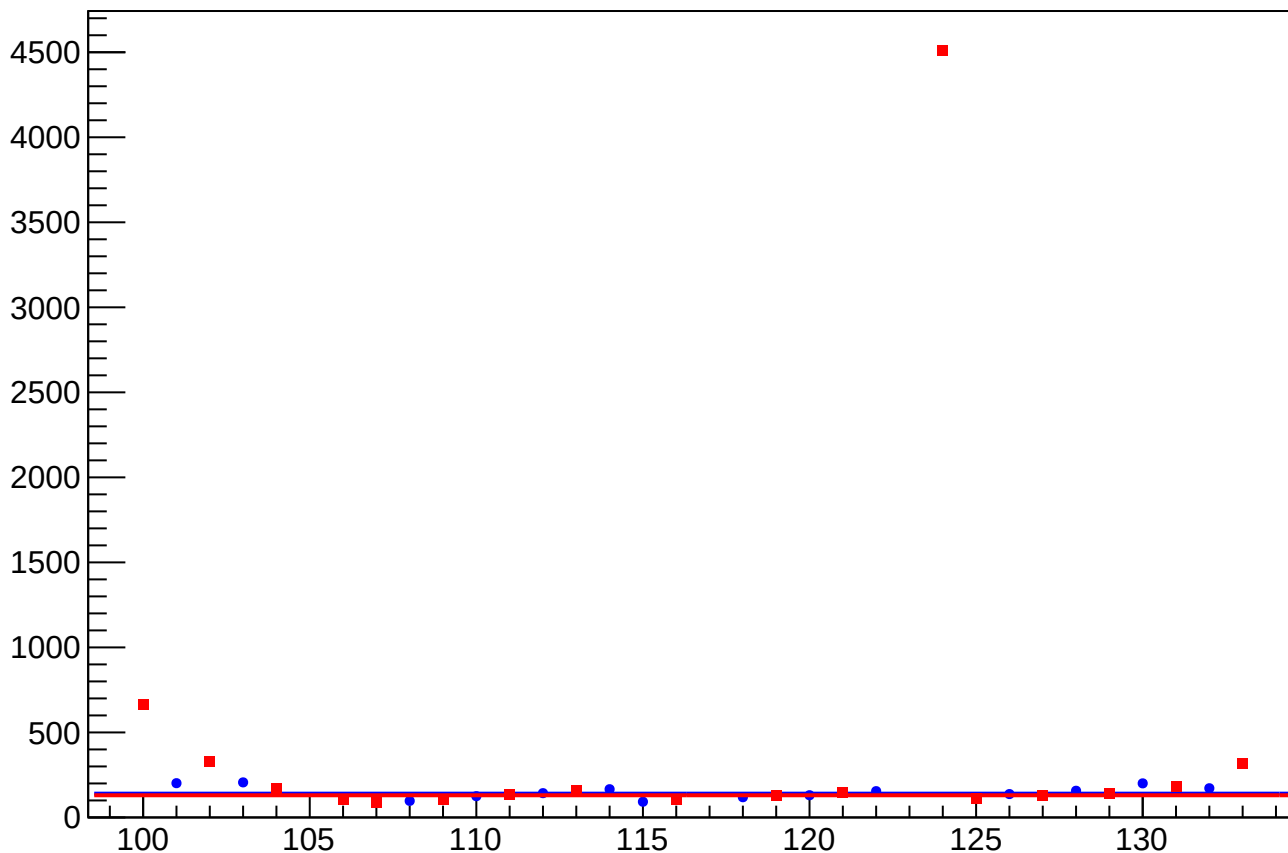
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.041  $\chi^2$ /NDF: 28.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.902+/-0.043  $\chi^2/\text{NDF}$ : 637807.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 130.506+/-0.039  $\chi^2/\text{NDF}$ : 1302037.0/16

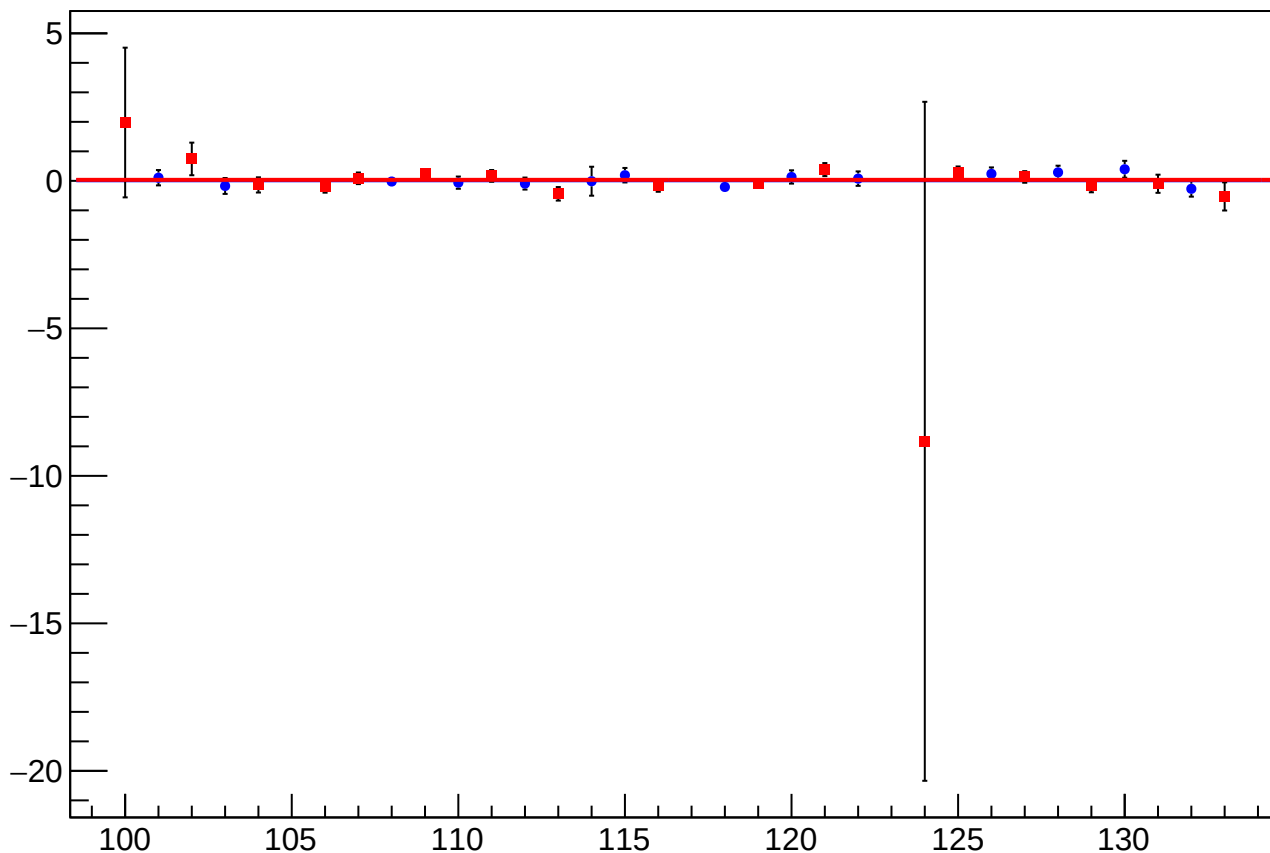
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 134.849+/-0.029  $\chi^2/\text{NDF}$ : 1966105.3/30

- 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: 0.019+/-0.060  $\chi^2/\text{NDF}$ : 9.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.034+/-0.056  $\chi^2/\text{NDF}$ : 19.6/16

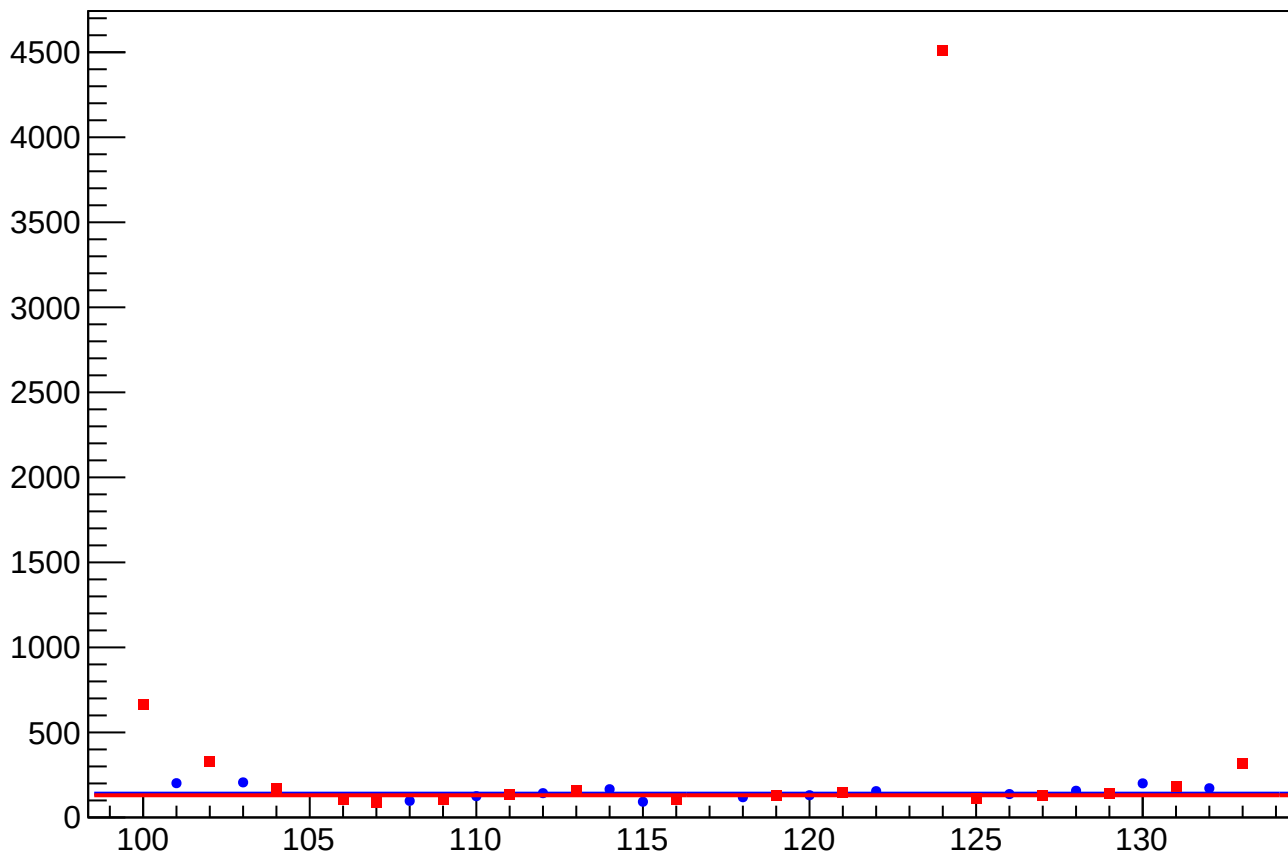
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.027+/-0.041  $\chi^2/\text{NDF}$ : 28.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.902+/-0.043  $\chi^2/\text{NDF}$ : 637807.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 130.506+/-0.039  $\chi^2/\text{NDF}$ : 1302037.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

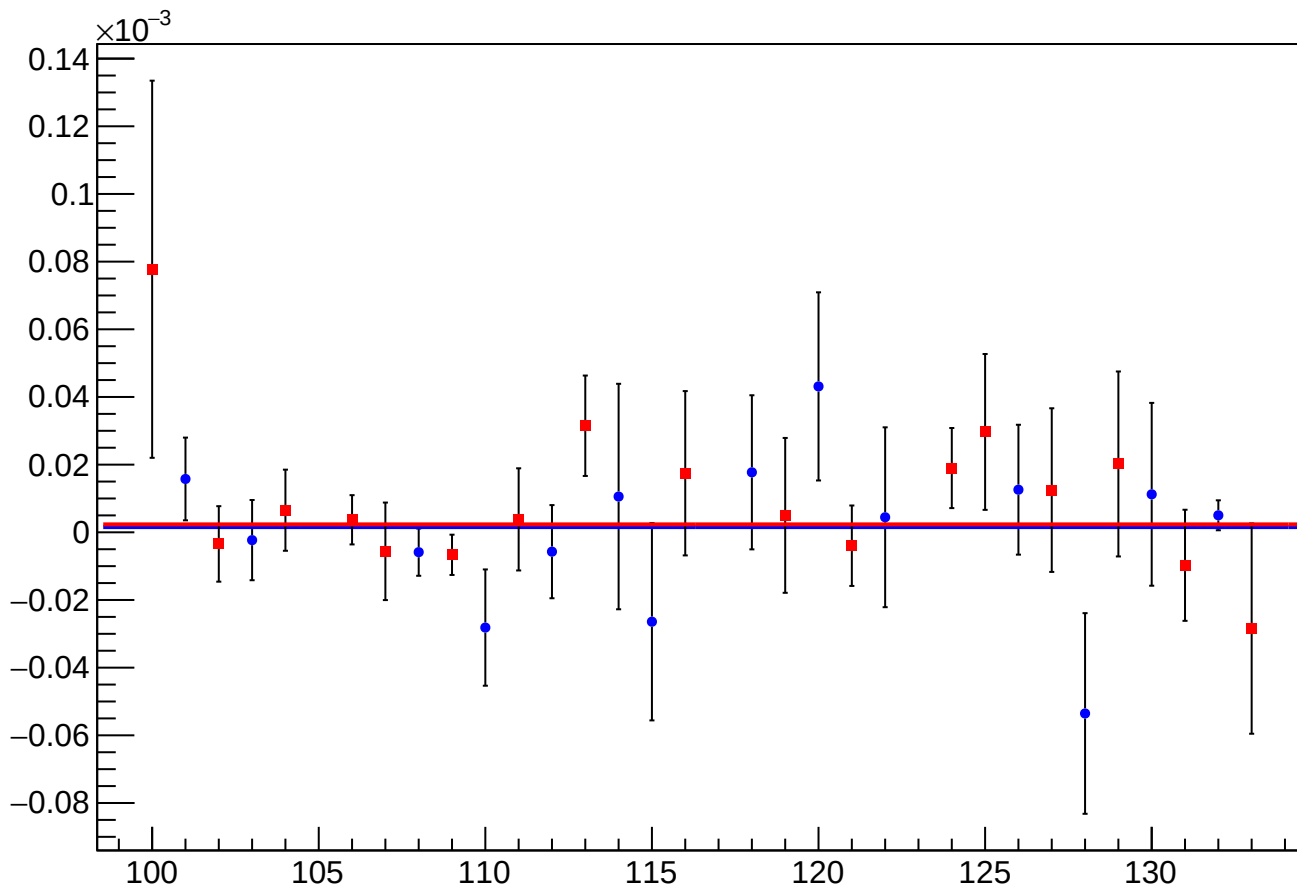
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 134.849+/-0.029  $\chi^2/\text{NDF}$ : 1966105.3/30

- 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: 14.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.9/16

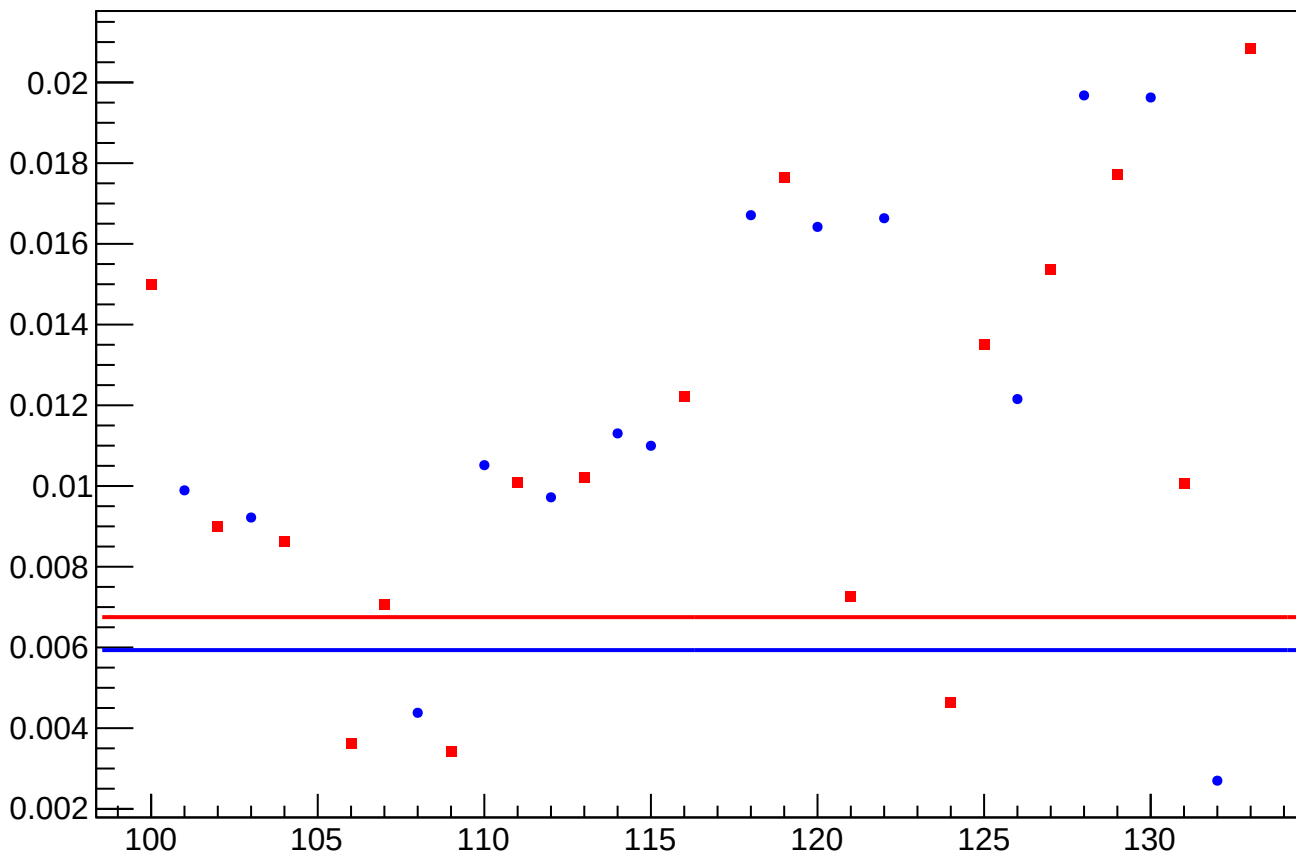
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 29.1/30

- 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: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 4146422.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 3236557.9/16

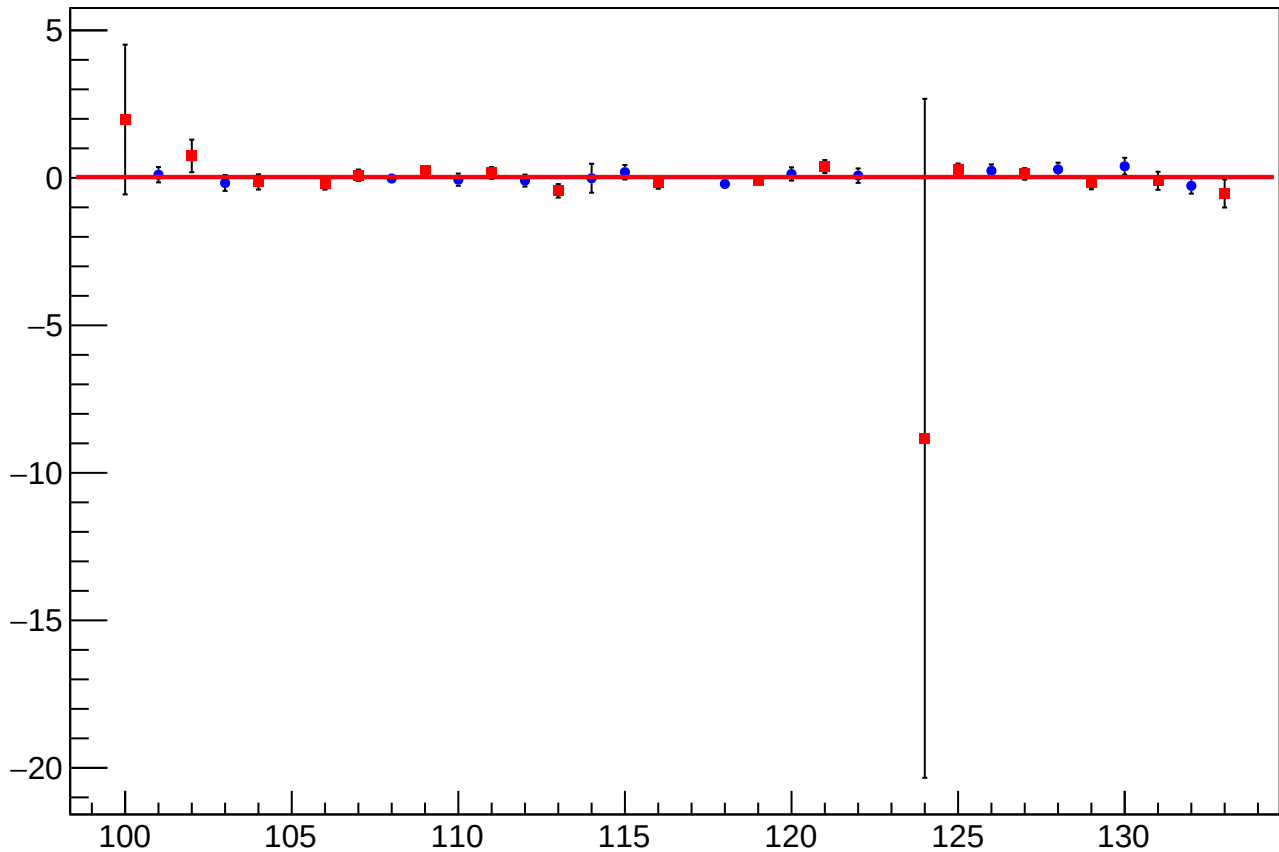
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 7452952.3/30

- 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: 0.019+/-0.060  $\chi^2/\text{NDF}$ : 9.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.034+/-0.056  $\chi^2/\text{NDF}$ : 19.6/16

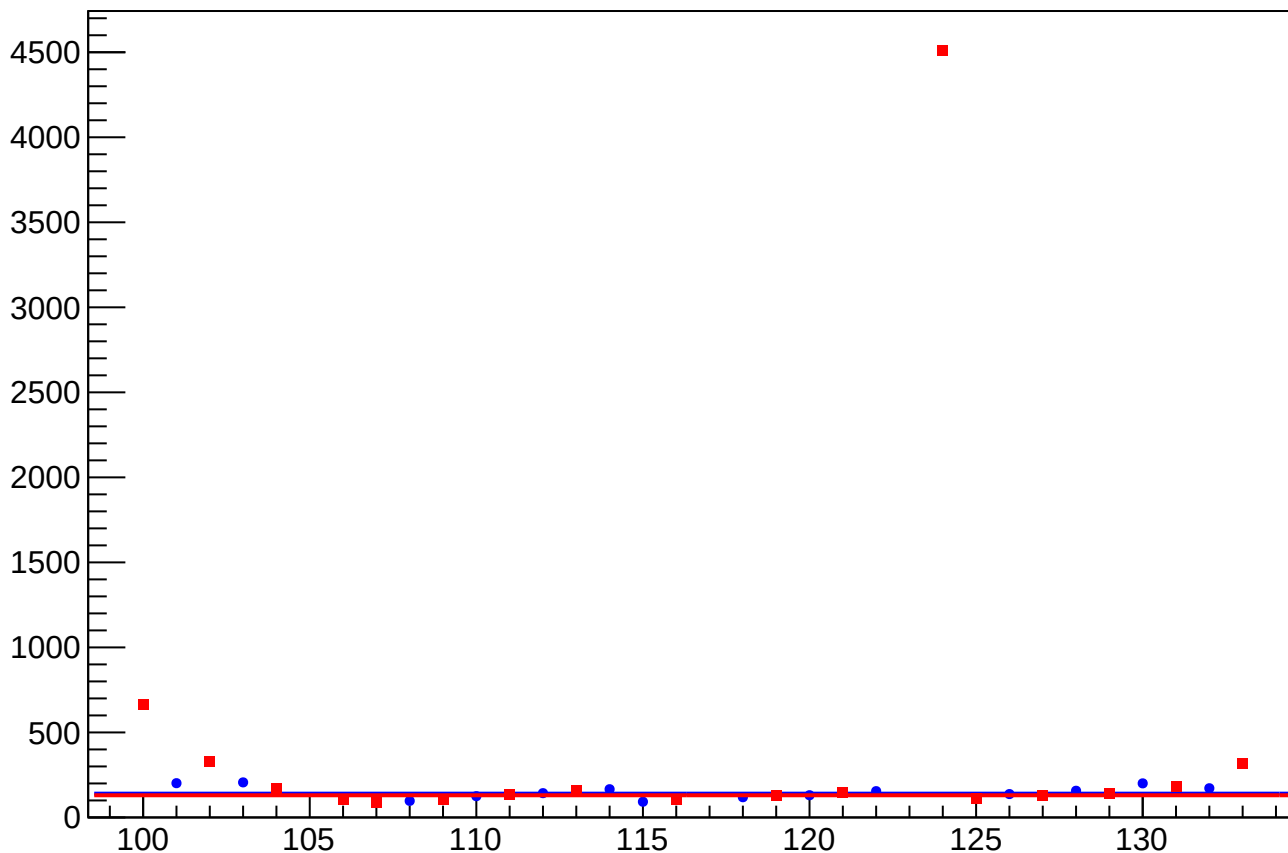
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.027+/-0.041  $\chi^2/\text{NDF}$ : 28.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.902 $\pm$ 0.043  $\chi^2$ /NDF: 637732.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 130.507 $\pm$ 0.039  $\chi^2$ /NDF: 1301957.4/16

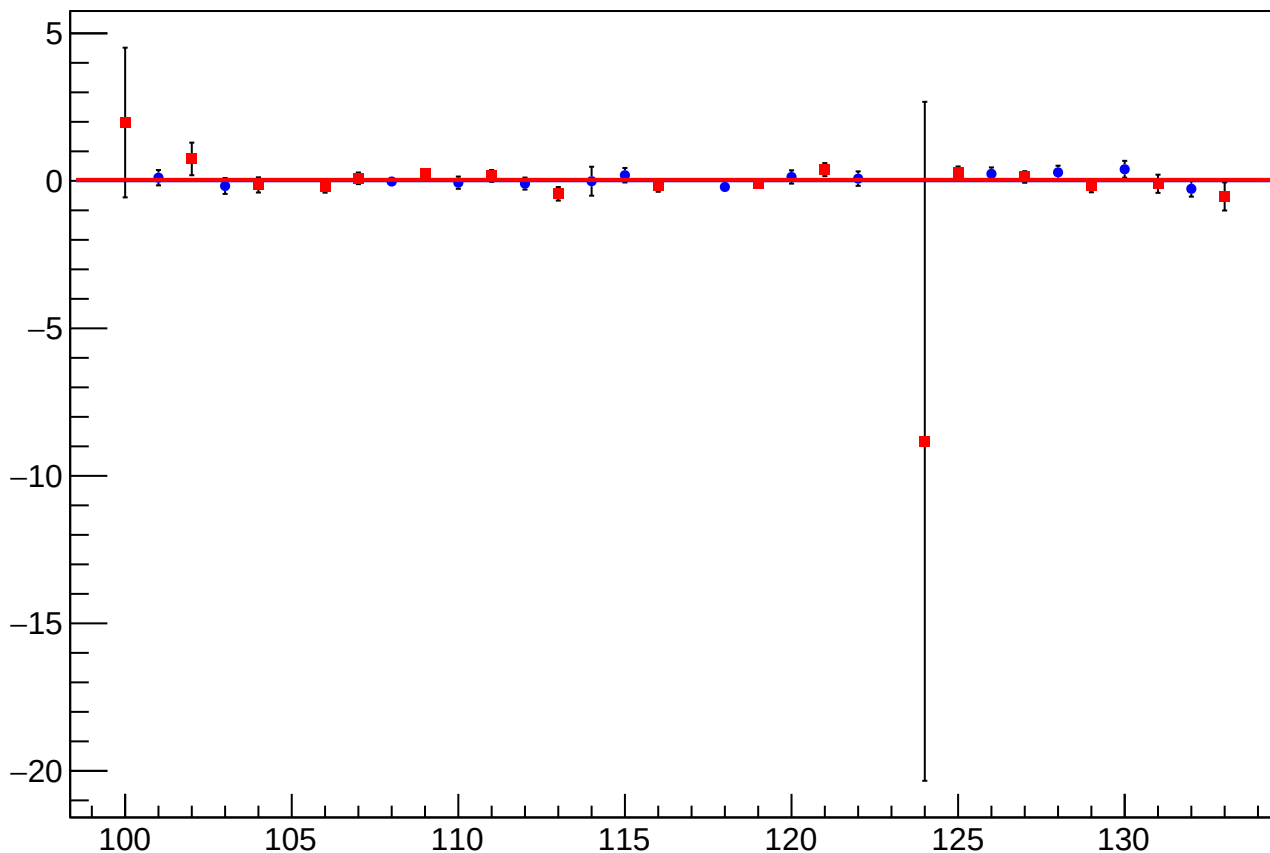
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 134.849 $\pm$ 0.029  $\chi^2$ /NDF: 1965942.5/30

- 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: 0.019+/-0.060  $\chi^2/\text{NDF}$ : 9.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.034+/-0.056  $\chi^2/\text{NDF}$ : 19.6/16

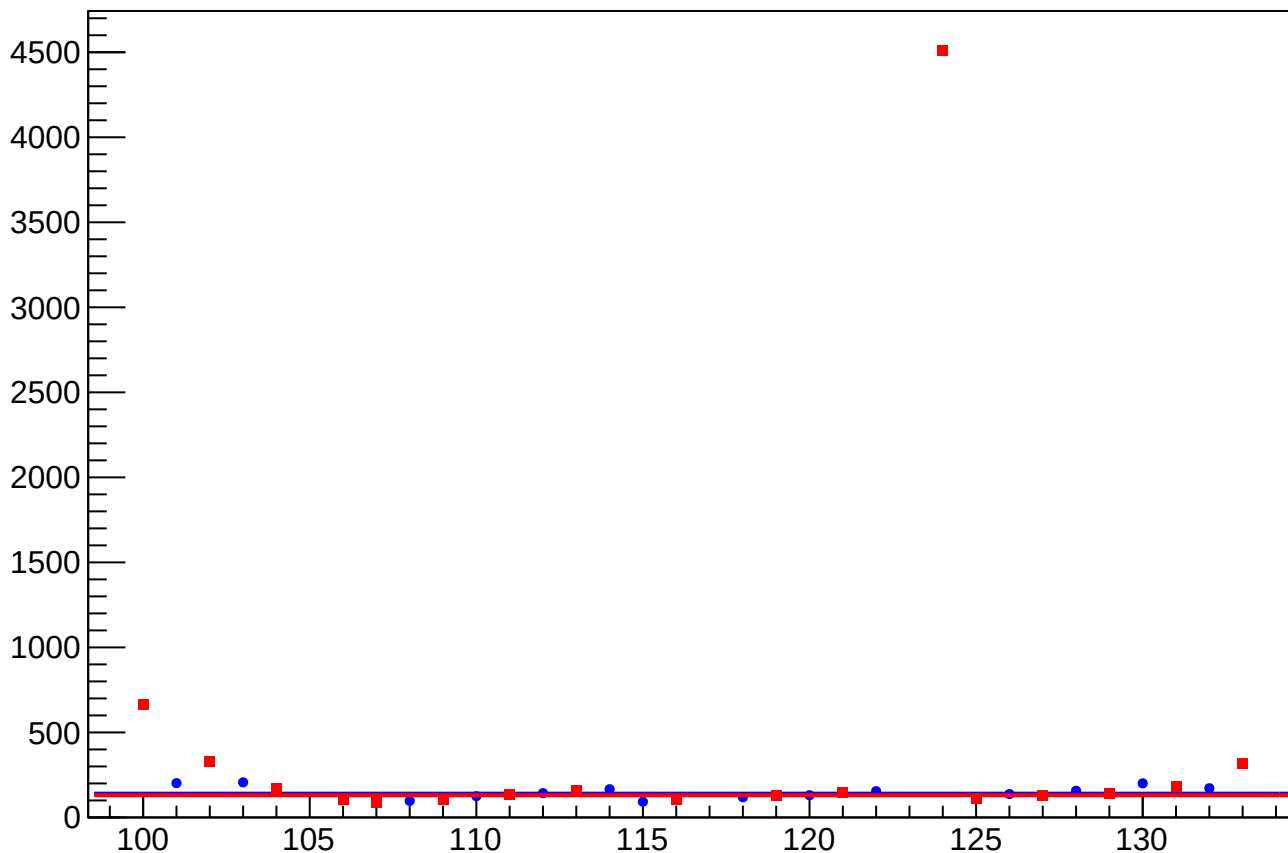
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.027+/-0.041  $\chi^2/\text{NDF}$ : 28.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.902 $\pm$ 0.043  $\chi^2$ /NDF: 637732.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 130.507 $\pm$ 0.039  $\chi^2$ /NDF: 1301957.4/16

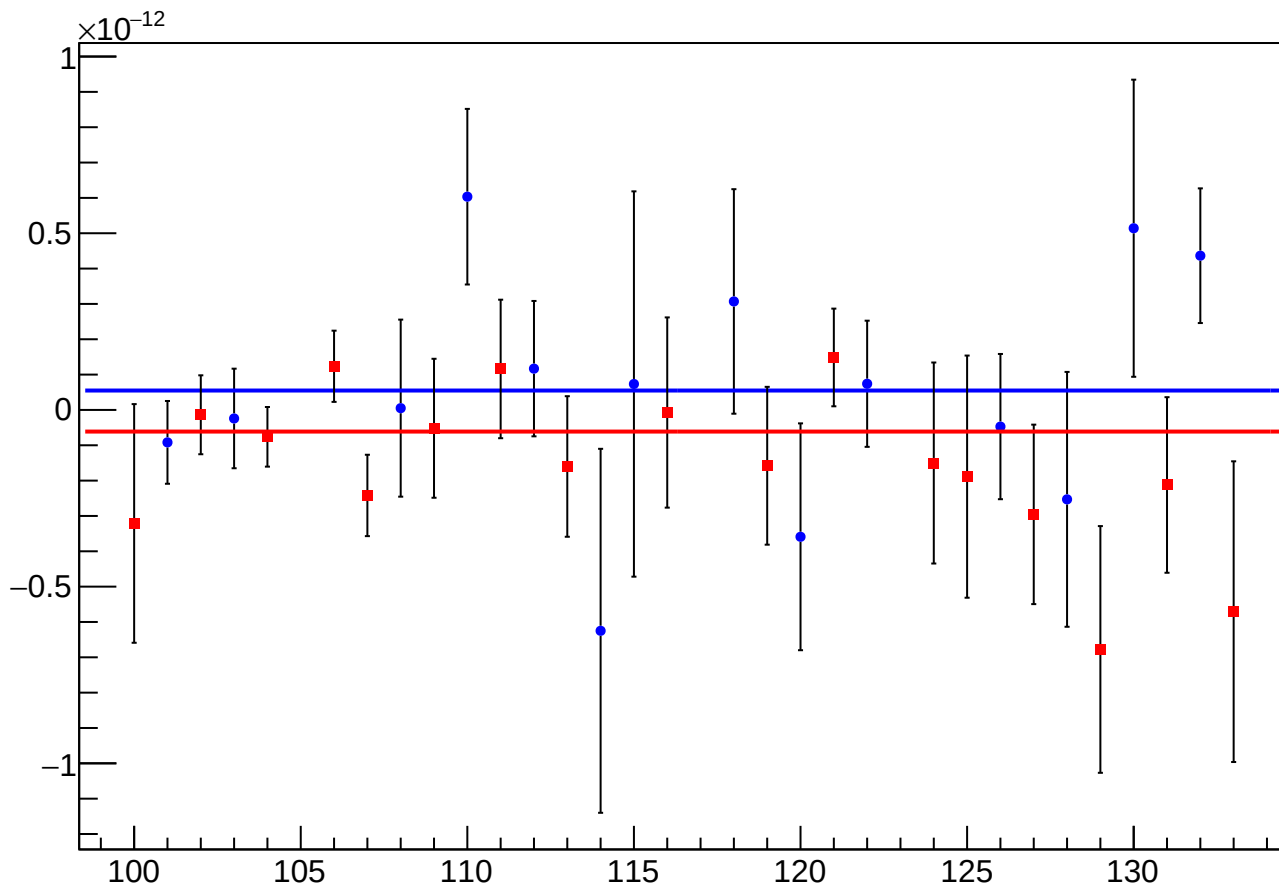
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 134.849 $\pm$ 0.029  $\chi^2$ /NDF: 1965942.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.2/16

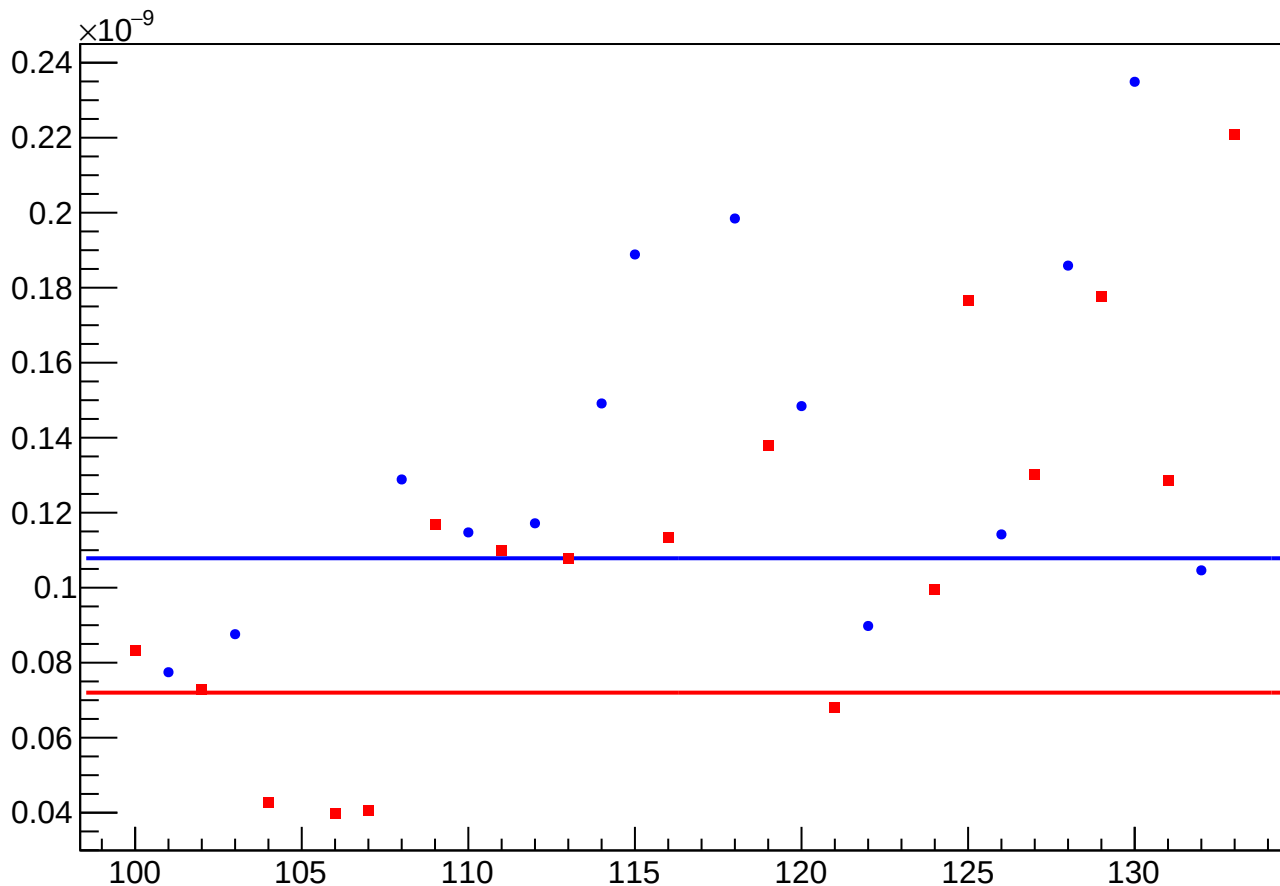
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 36.1/30

- 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  $\chi^2/\text{NDF}$ : 747350.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1902273.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

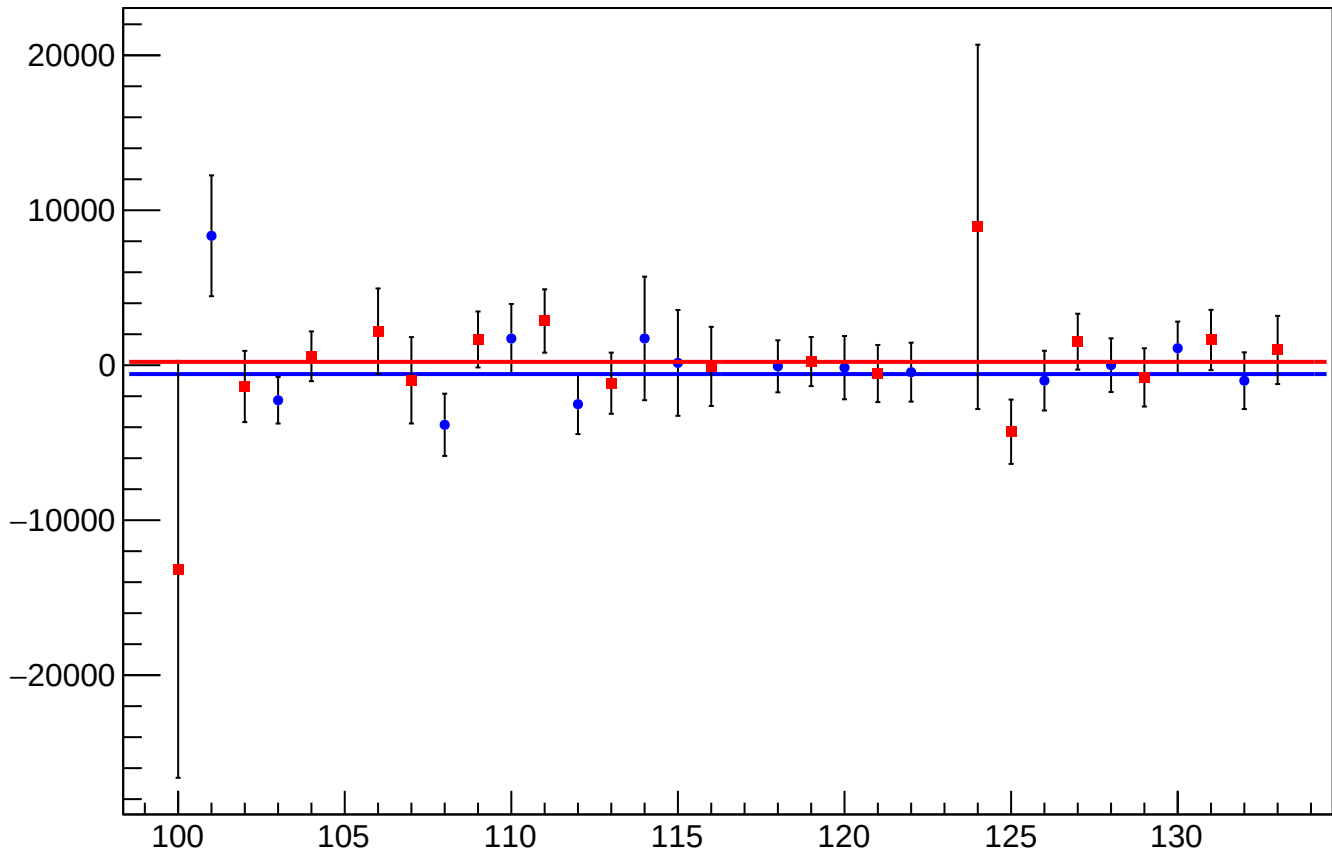
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3178672.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -571.910+/-535.663  $\chi^2/\text{NDF}$ : 12.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 217.420+/-513.494  $\chi^2/\text{NDF}$ : 11.9/16

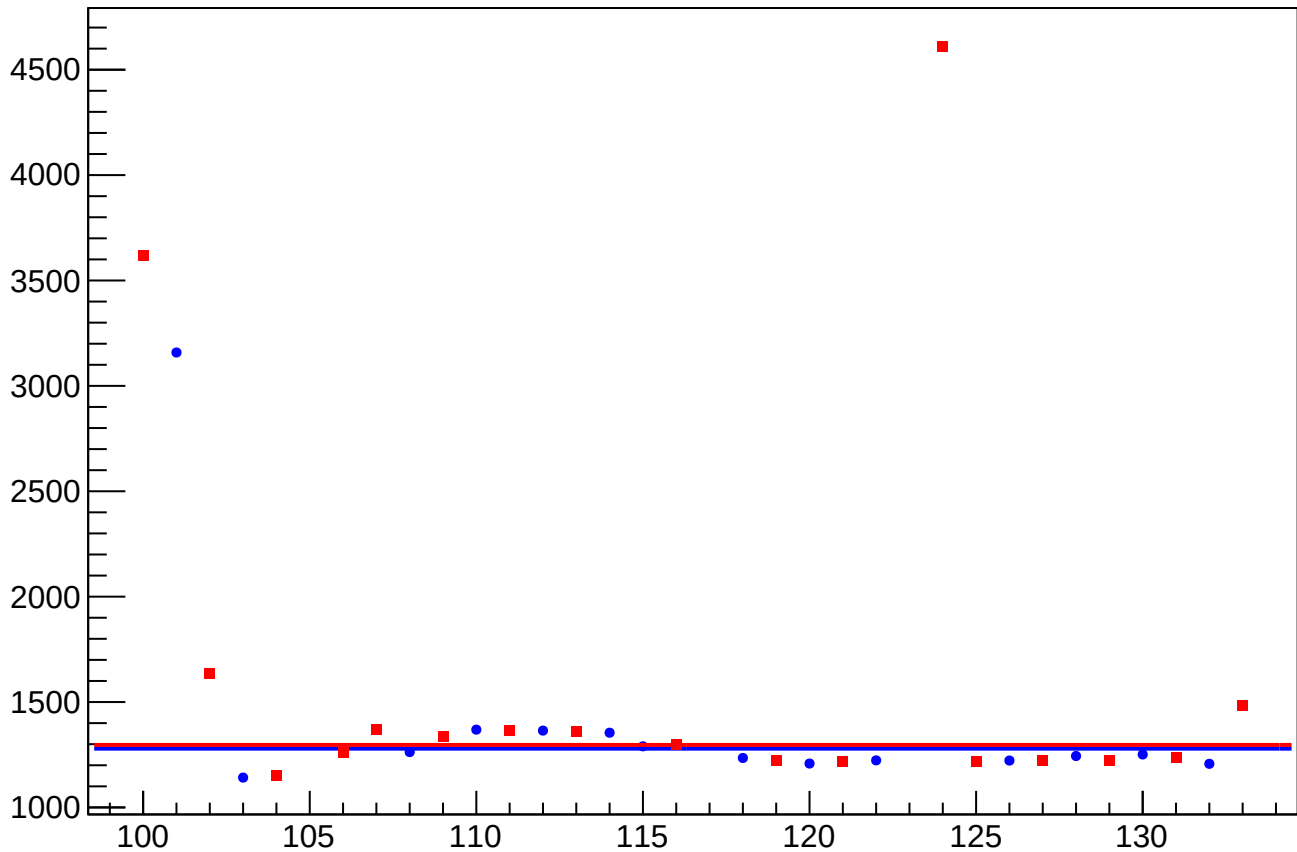
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -160.573+/-370.684  $\chi^2/\text{NDF}$ : 25.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 1278.879+/-0.379  $\chi^2/\text{NDF}$ : 500878.1/13

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

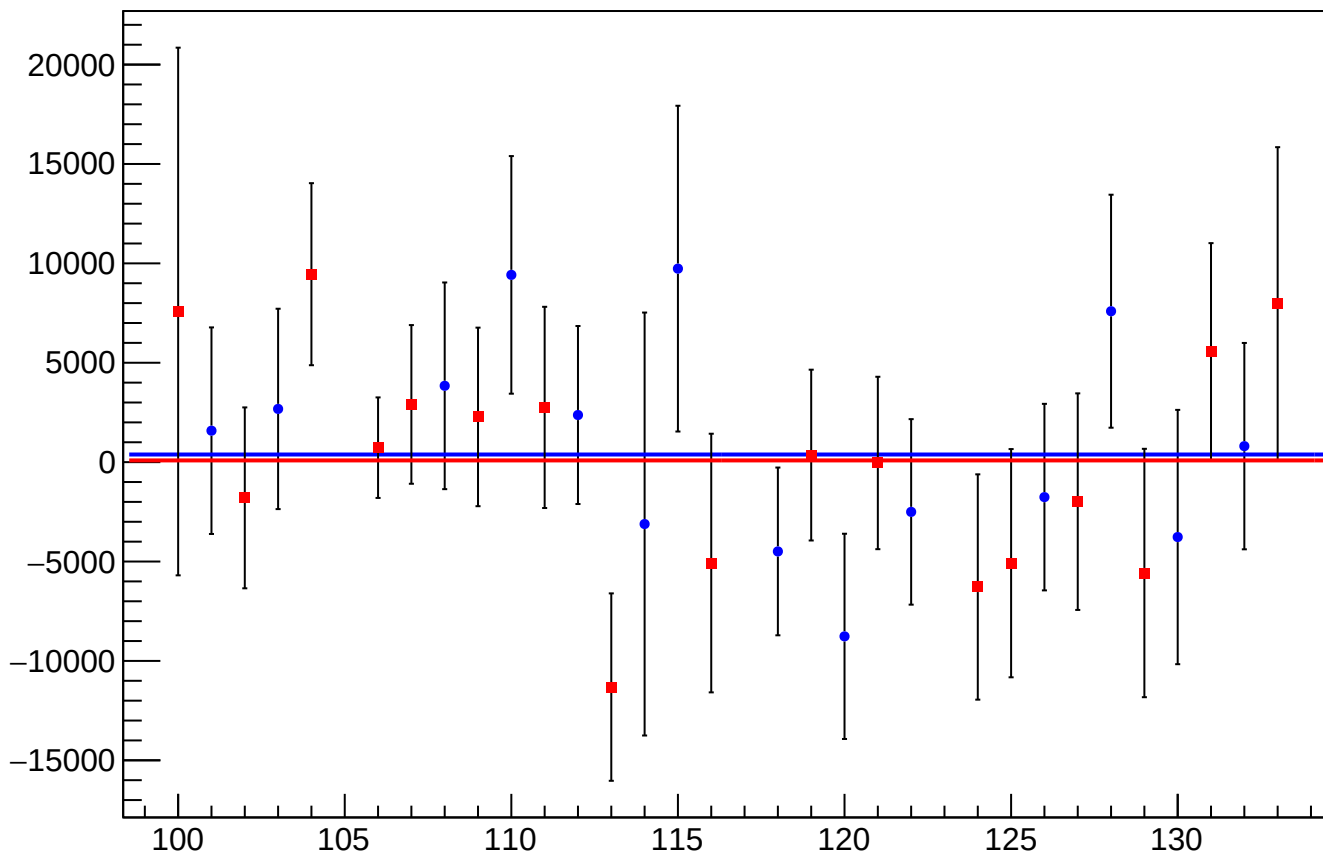
Right Out: 1296.555+/-0.362  $\chi^2/\text{NDF}$ : 318960.1/16

All: 1288.116+/-0.262  $\chi^2/\text{NDF}$ : 820976.3/30

- 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: 384.055+/-1427.553  $\chi^2/\text{NDF}$ : 11.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 86.795+/-1150.348  $\chi^2/\text{NDF}$ : 17.3/16

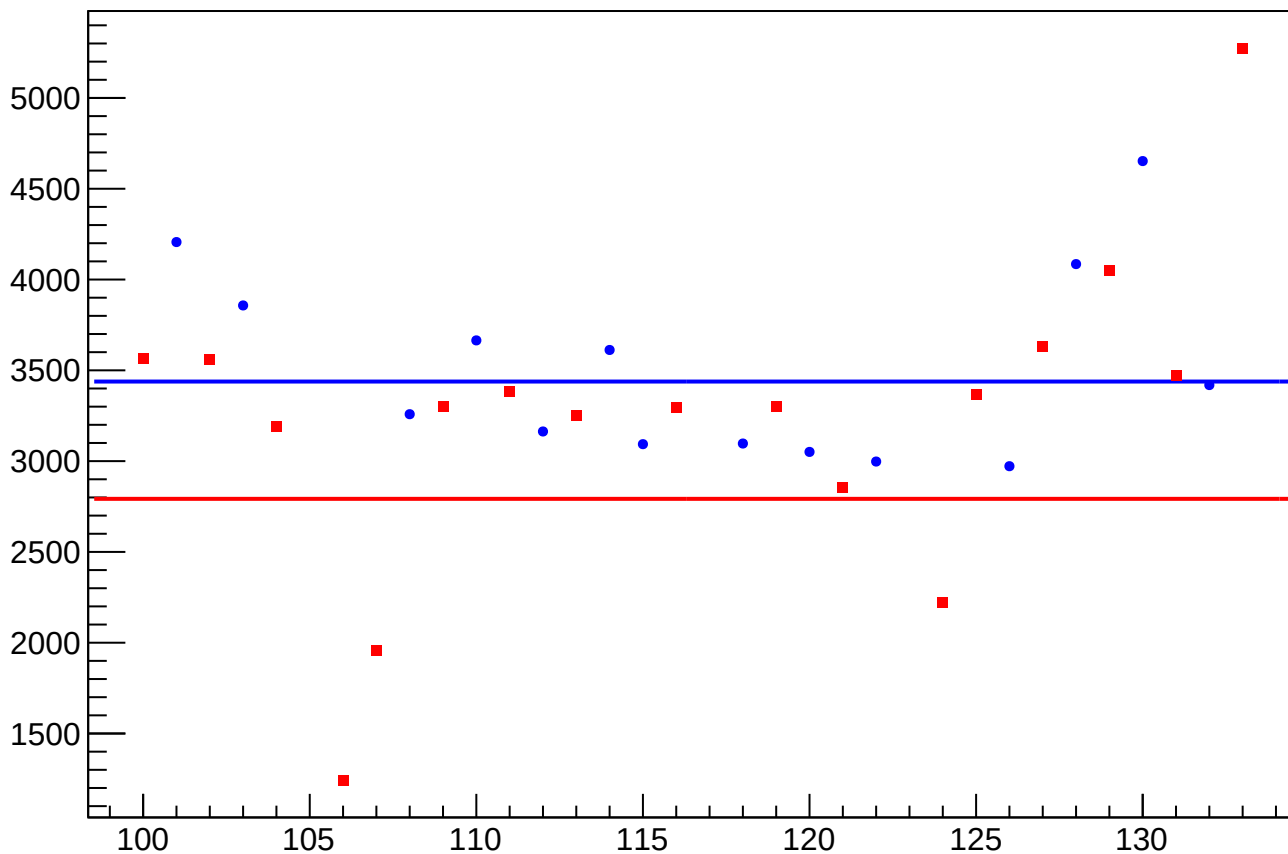
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 203.826+/-895.723  $\chi^2/\text{NDF}$ : 28.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_reg\_correction\_rms vs Slug



Right In: 3438.273+/-1.009  $\chi^2/\text{NDF}$ : 232786.0/13

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

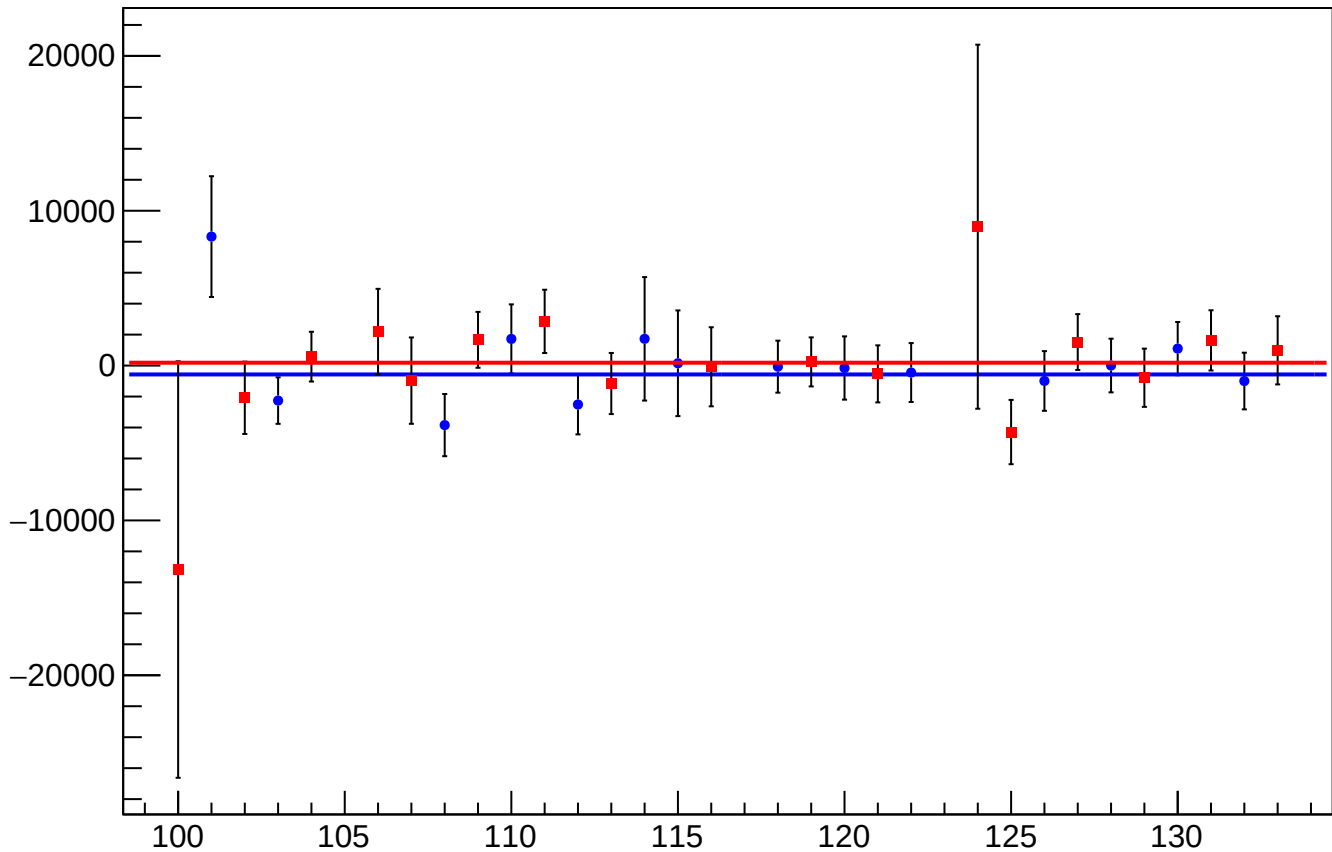
Right Out: 2792.290+/-0.813  $\chi^2/\text{NDF}$ : 1429809.5/16

All: 3046.612+/-0.633  $\chi^2/\text{NDF}$ : 1910895.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In:  $-572.381 \pm 535.663$   $\chi^2/\text{NDF}$ : 12.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $185.468 \pm 513.871$   $\chi^2/\text{NDF}$ : 12.4/16

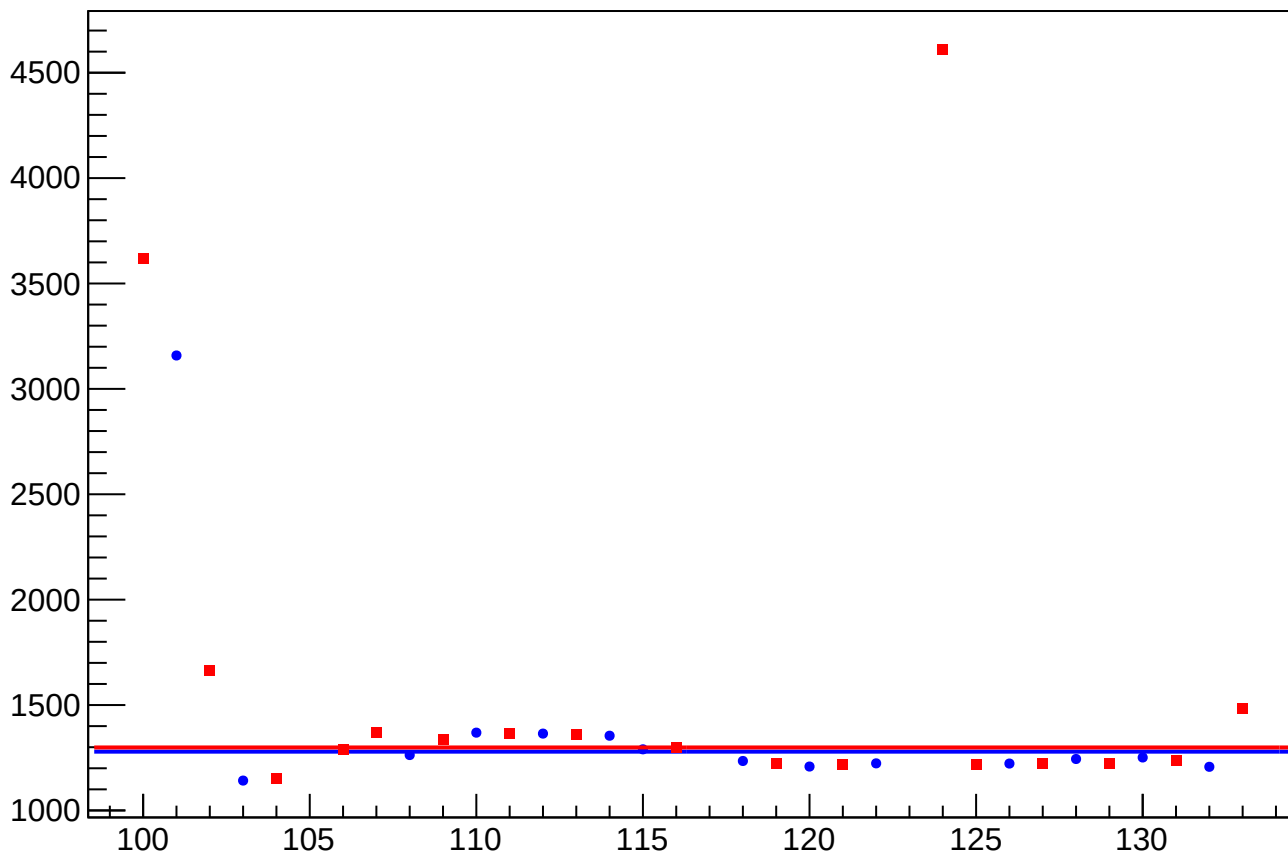
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-177.728 \pm 370.827$   $\chi^2/\text{NDF}$ : 26.3/30

- 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: 1278.879+/-0.379  $\chi^2/\text{NDF}$ : 500879.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1298.796+/-0.363  $\chi^2/\text{NDF}$ : 325561.1/16

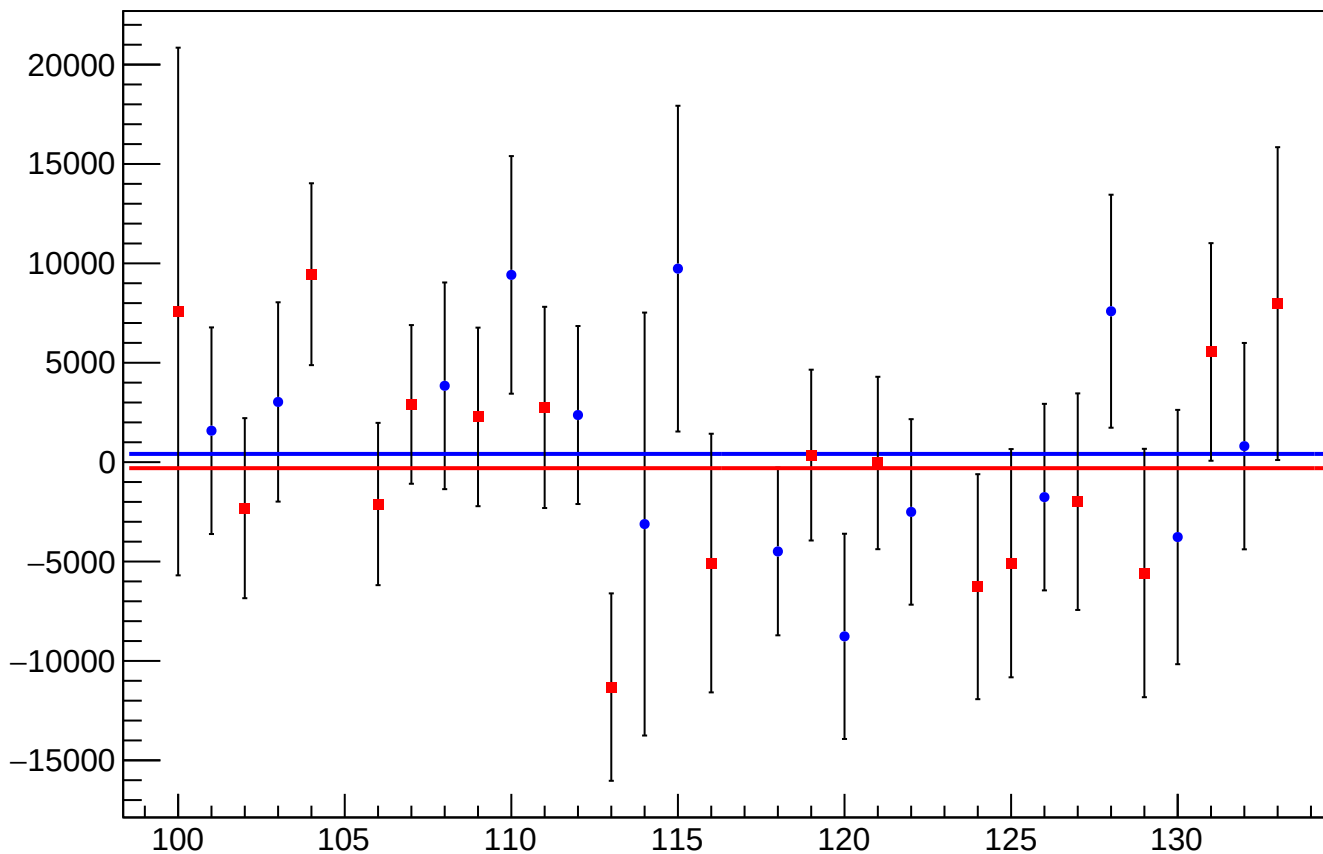
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1289.271+/-0.262  $\chi^2/\text{NDF}$ : 827883.3/30

- 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: 414.235 $\pm$ 1426.984  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -302.867 $\pm$ 1230.941  $\chi^2$ /NDF: 17.5/16

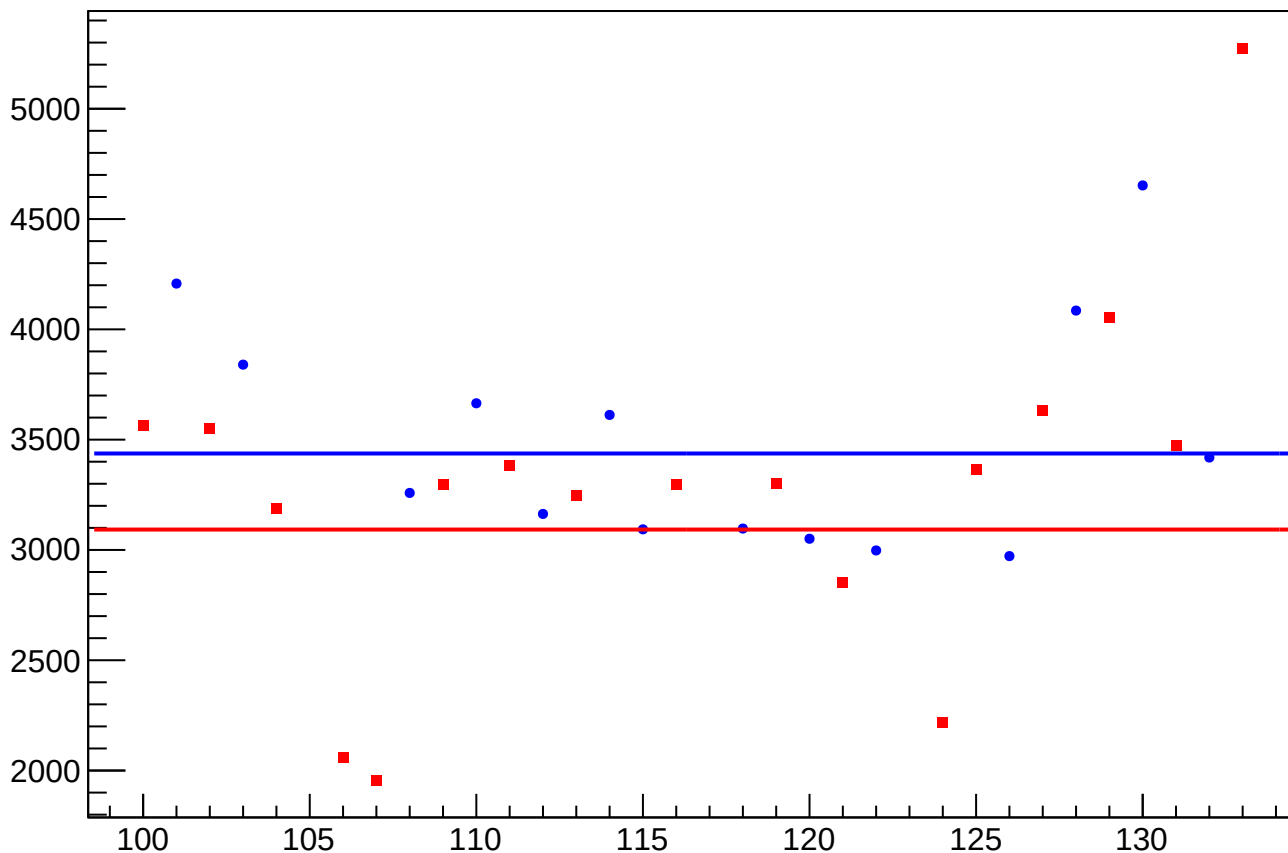
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.078 $\pm$ 932.074  $\chi^2$ /NDF: 29.3/30

- 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: 3437.268+/-1.009  $\chi^2/\text{NDF}$ : 231903.7/13

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: 3092.446+/-0.870  $\chi^2/\text{NDF}$ : 621572.7/16

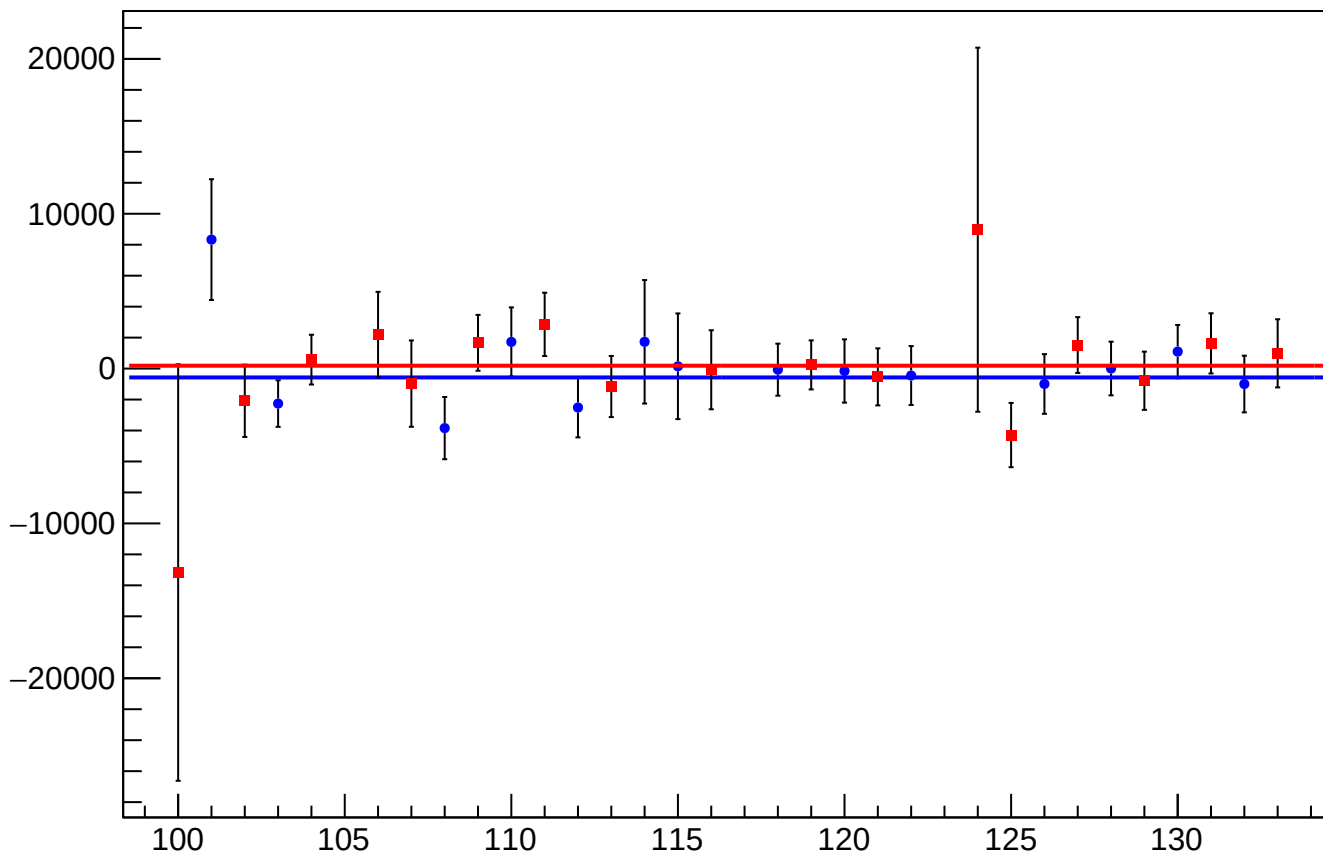
All: 3239.561+/-0.659  $\chi^2/\text{NDF}$ : 920435.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -572.381+/-535.663  $\chi^2/\text{NDF}$ : 12.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 185.468+/-513.871  $\chi^2/\text{NDF}$ : 12.4/16

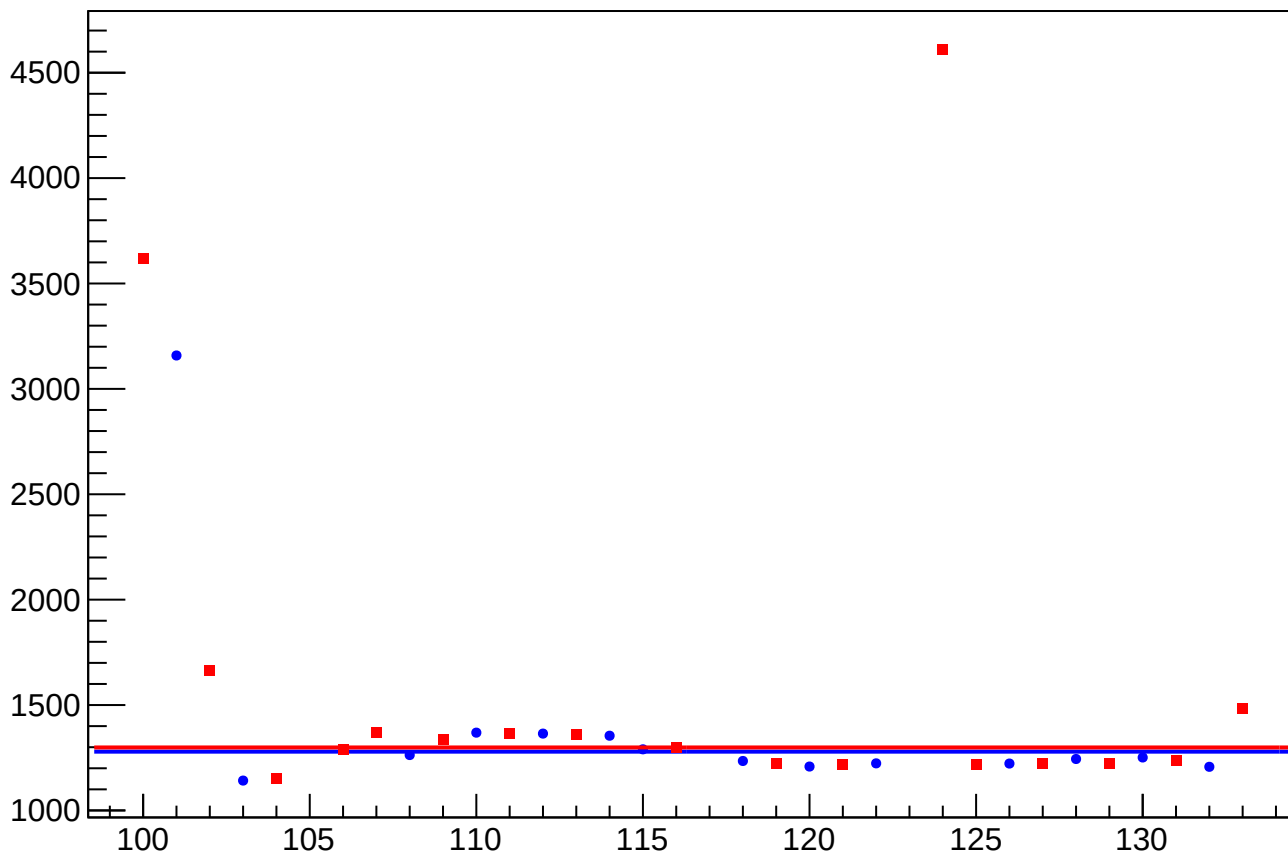
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -177.728+/-370.827  $\chi^2/\text{NDF}$ : 26.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 1278.879+/-0.379  $\chi^2/\text{NDF}$ : 500879.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1298.796+/-0.363  $\chi^2/\text{NDF}$ : 325561.1/16

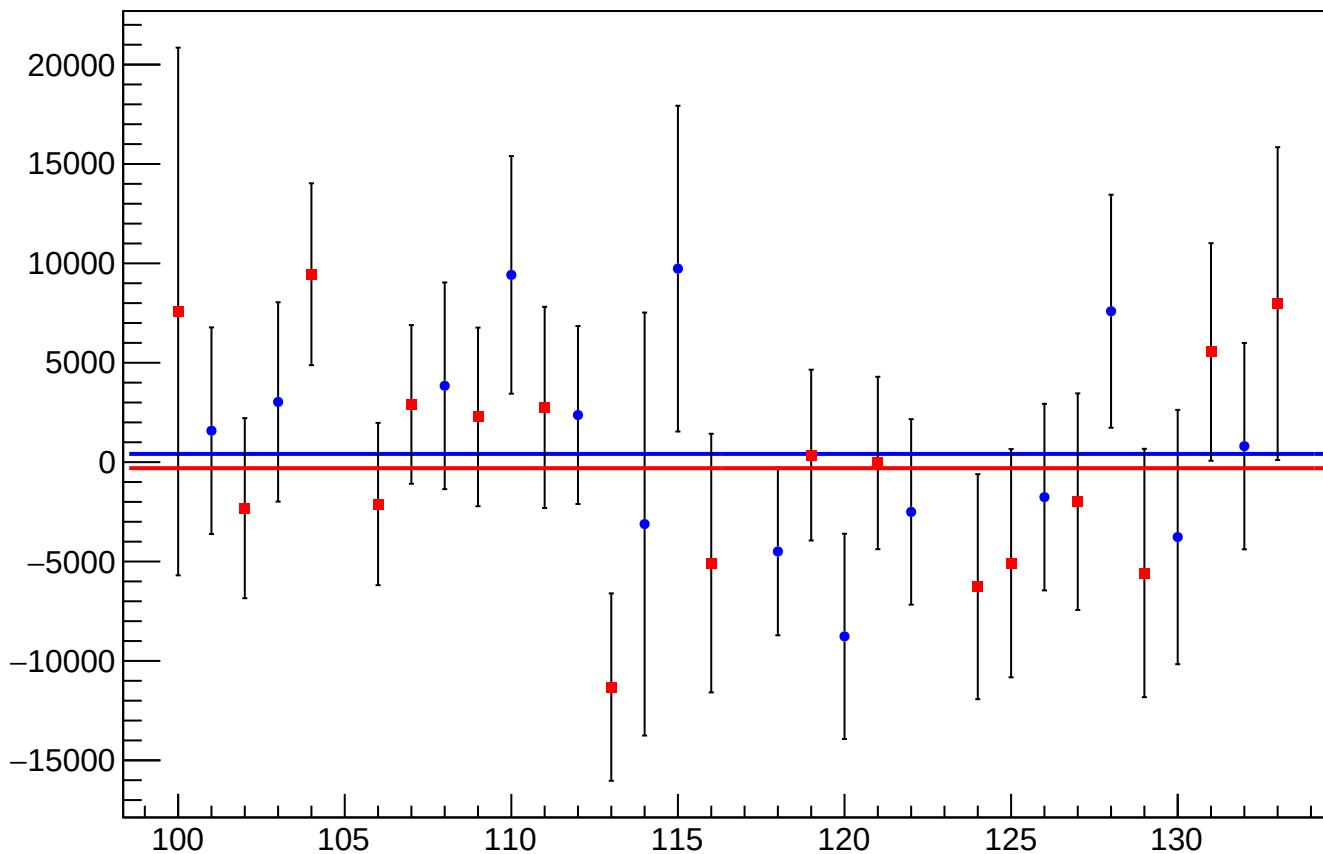
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1289.271+/-0.262  $\chi^2/\text{NDF}$ : 827883.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 414.235 $\pm$ 1426.984  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -302.867 $\pm$ 1230.941  $\chi^2$ /NDF: 17.5/16

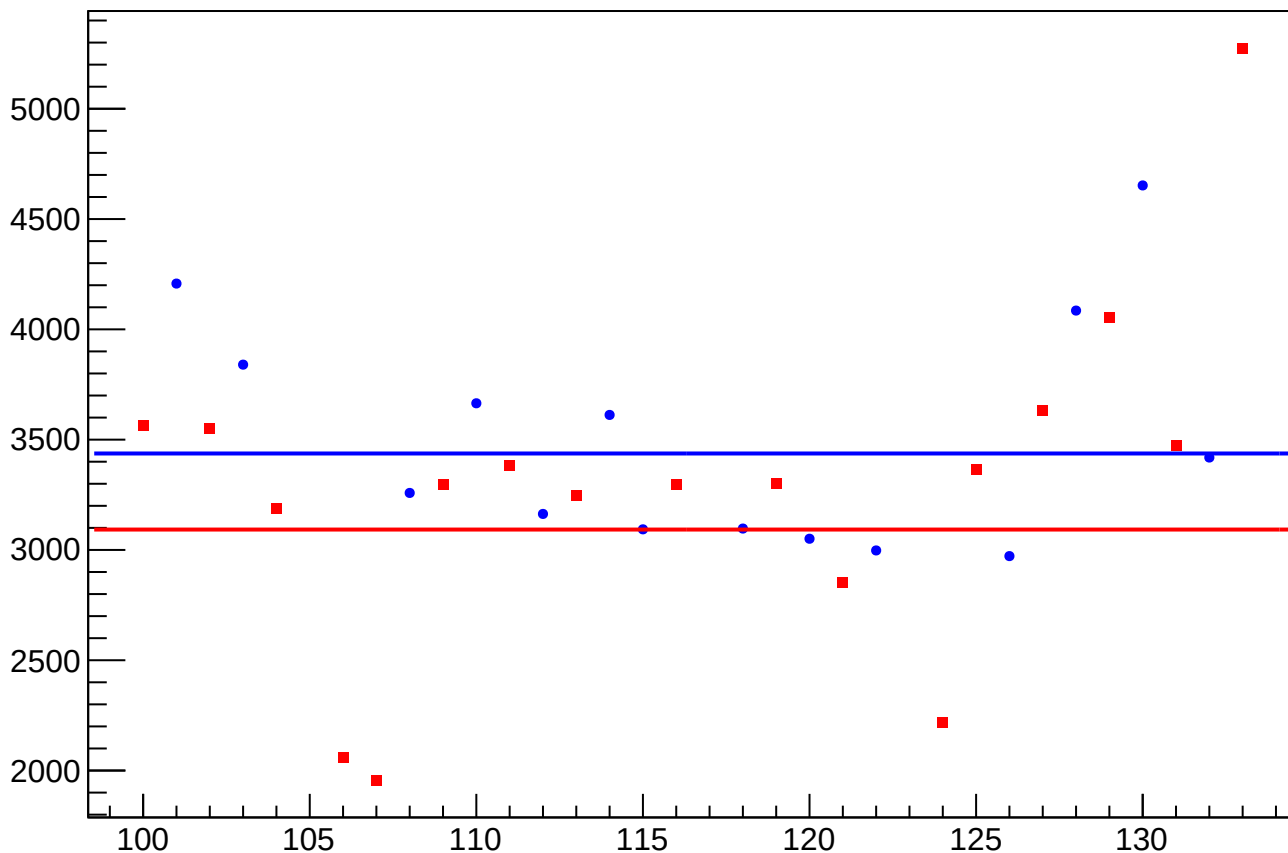
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.078 $\pm$ 932.074  $\chi^2$ /NDF: 29.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3437.268+/-1.009  $\chi^2/\text{NDF}$ : 231903.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3092.446+/-0.870  $\chi^2/\text{NDF}$ : 621572.7/16

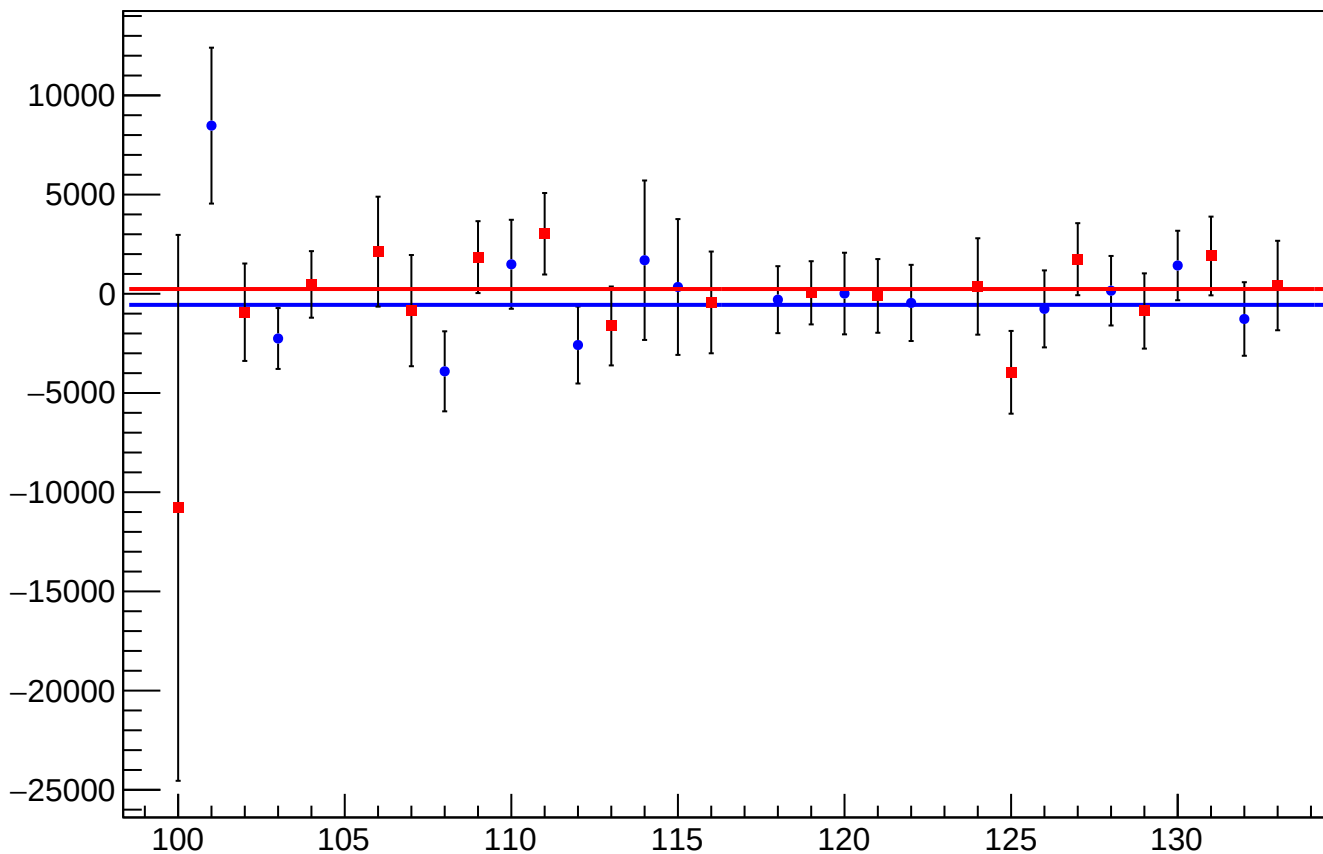
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3239.561+/-0.659  $\chi^2/\text{NDF}$ : 920435.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -558.551+/-541.173  $\chi^2$ /NDF: 13.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 240.257+/-509.871  $\chi^2$ /NDF: 10.9/16

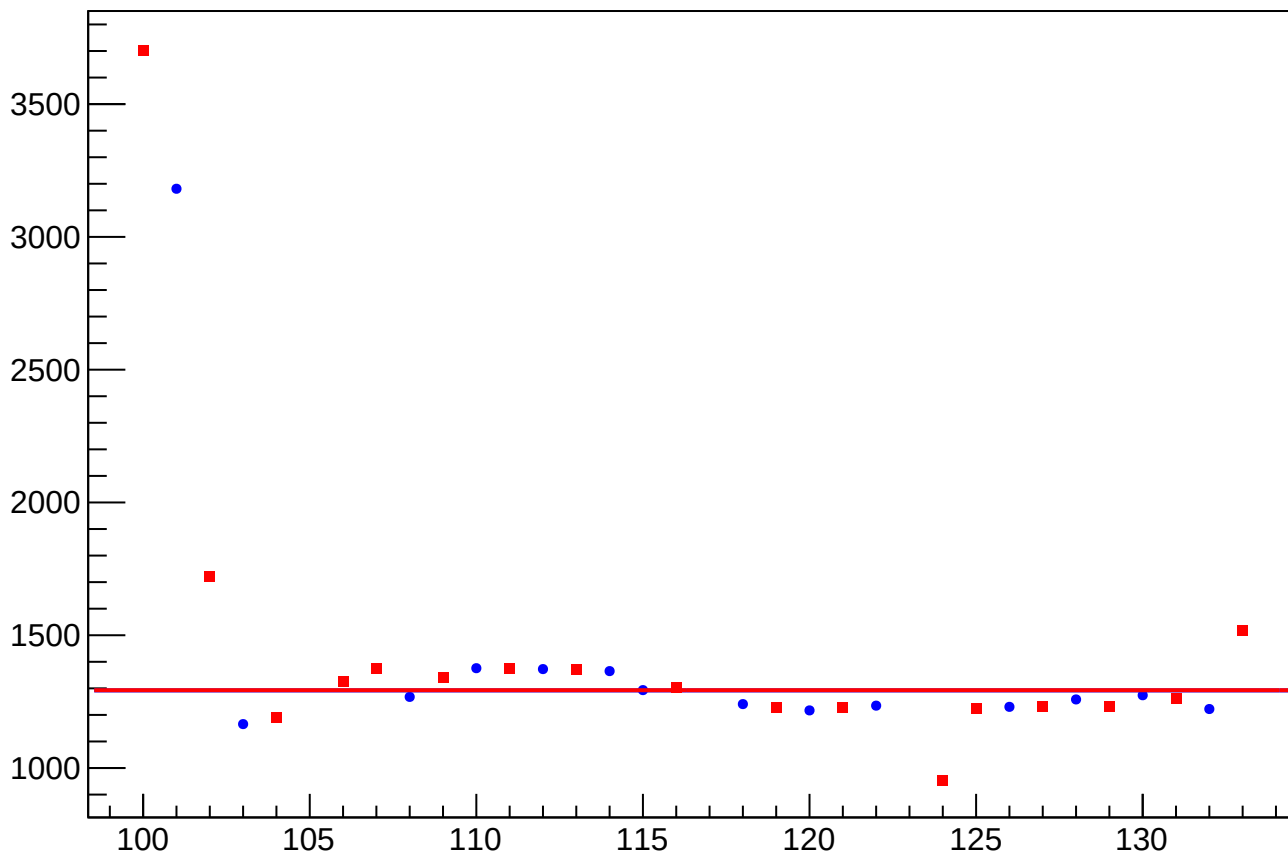
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -135.379+/-371.106  $\chi^2$ /NDF: 25.3/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 1292.213+/-0.383  $\chi^2/\text{NDF}$ : 495291.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1293.041+/-0.360  $\chi^2/\text{NDF}$ : 211204.6/16

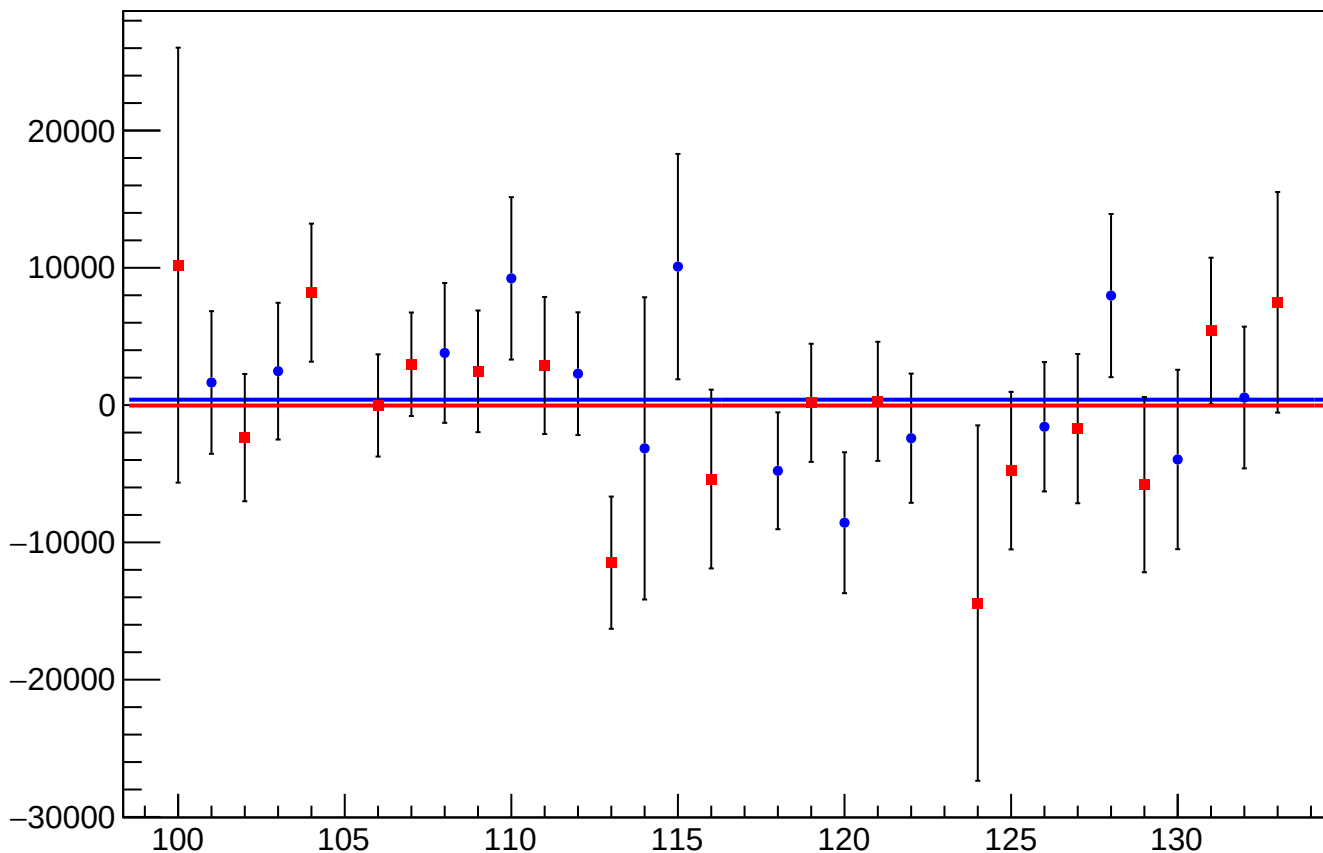
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1292.652+/-0.262  $\chi^2/\text{NDF}$ : 706498.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_correction\_mean vs Slug



Right In:  $394.695 \pm 1428.125$   $\chi^2/\text{NDF}$ : 11.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-30.502 \pm 1247.043$   $\chi^2/\text{NDF}$ : 15.7/16

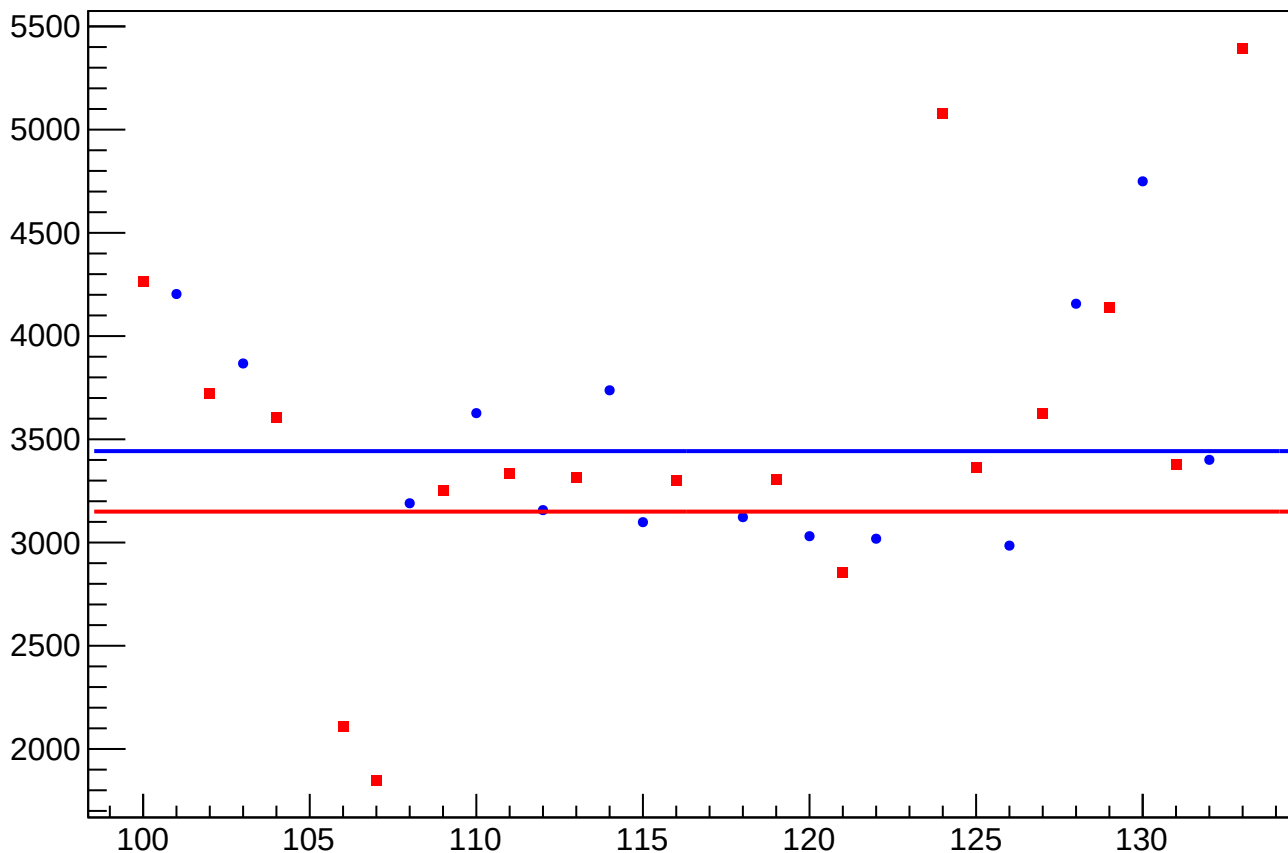
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $153.446 \pm 939.331$   $\chi^2/\text{NDF}$ : 27.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_correction\_rms vs Slug



Right In: 3442.793+/-1.010  $\chi^2/\text{NDF}$ : 245736.0/13

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: 3149.771+/-0.882  $\chi^2/\text{NDF}$ : 741142.1/16

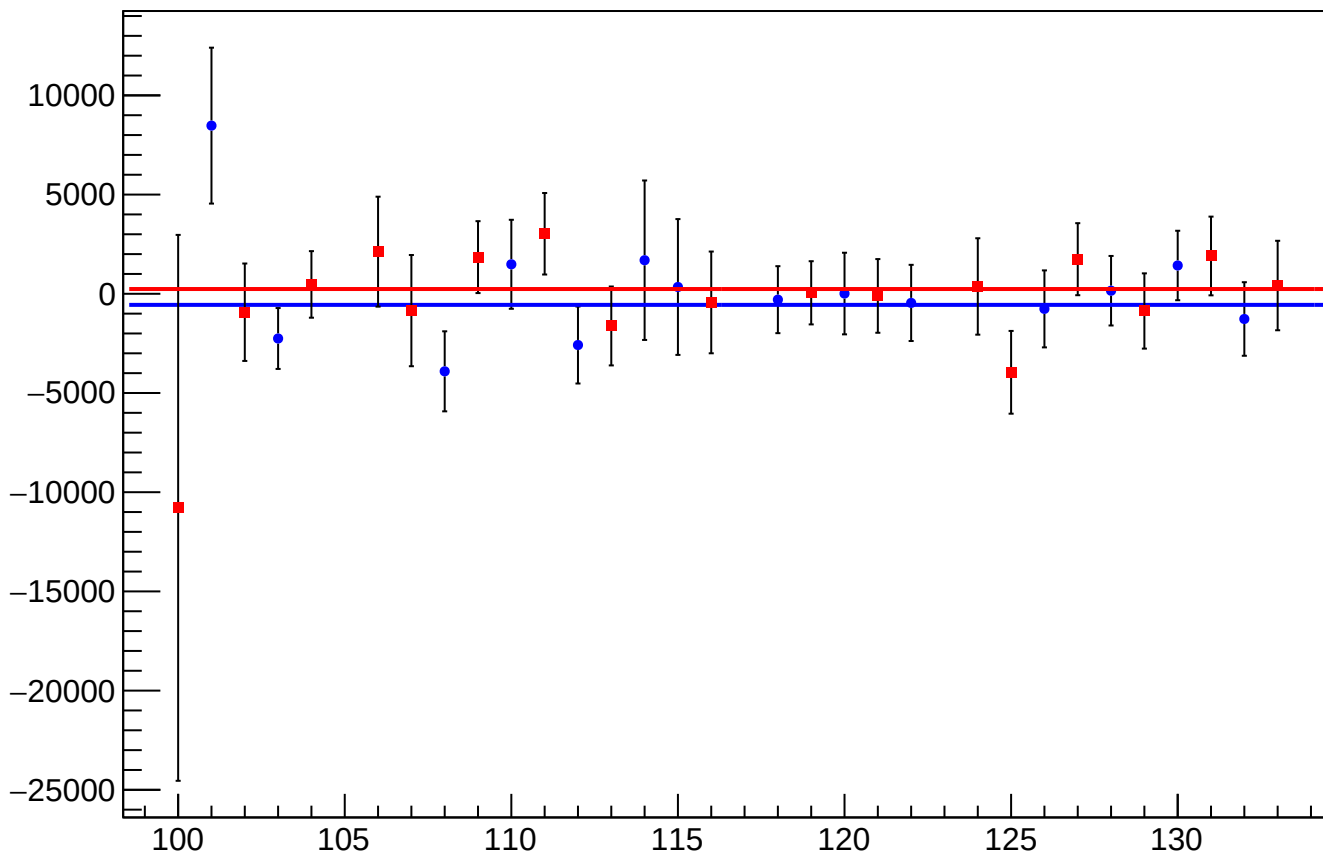
All: 3276.538+/-0.664  $\chi^2/\text{NDF}$ : 1034650.0/30

- 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\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -558.555 $\pm$ 541.173  $\chi^2$ /NDF: 13.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 240.262 $\pm$ 509.871  $\chi^2$ /NDF: 10.9/16

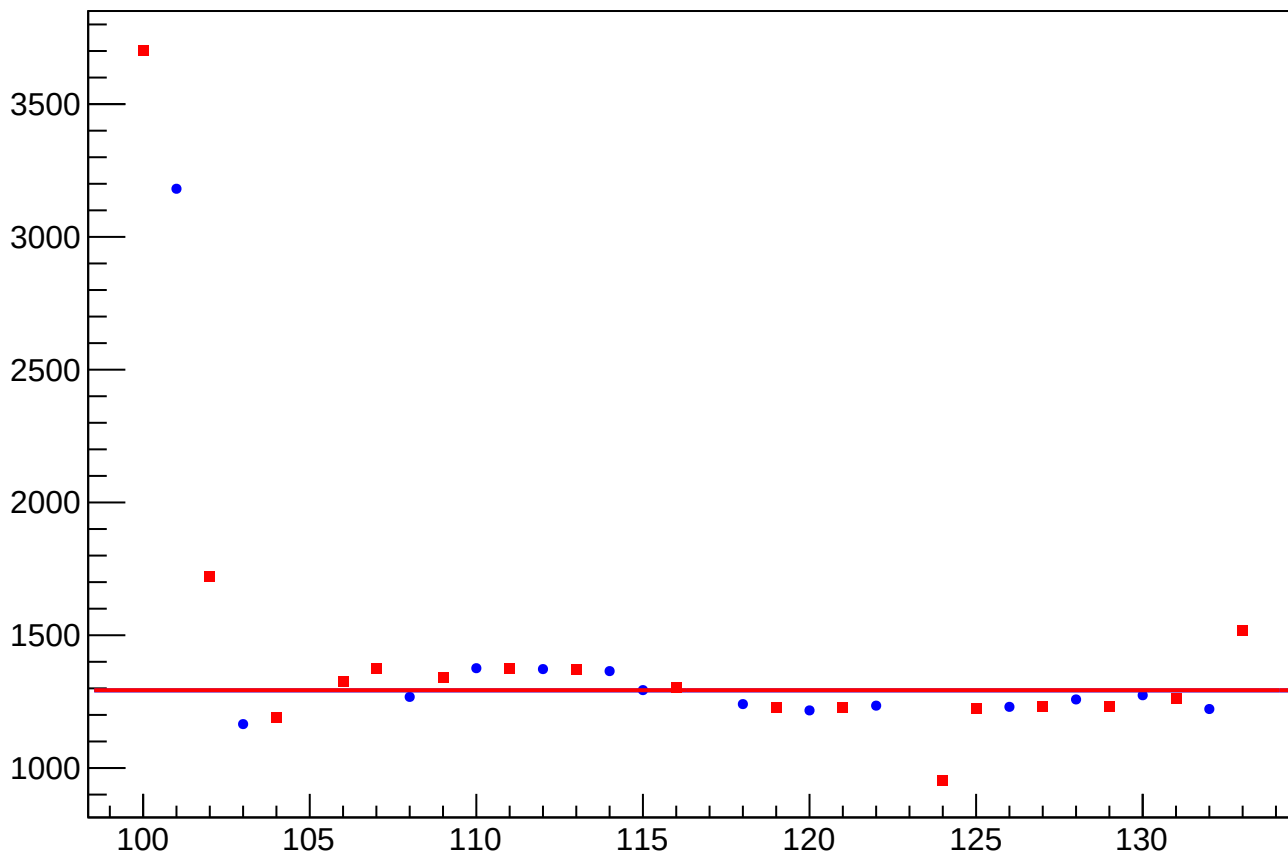
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -135.377 $\pm$ 371.106  $\chi^2$ /NDF: 25.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 1292.213+/-0.383  $\chi^2/\text{NDF}$ : 495291.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1293.041+/-0.360  $\chi^2/\text{NDF}$ : 211204.6/16

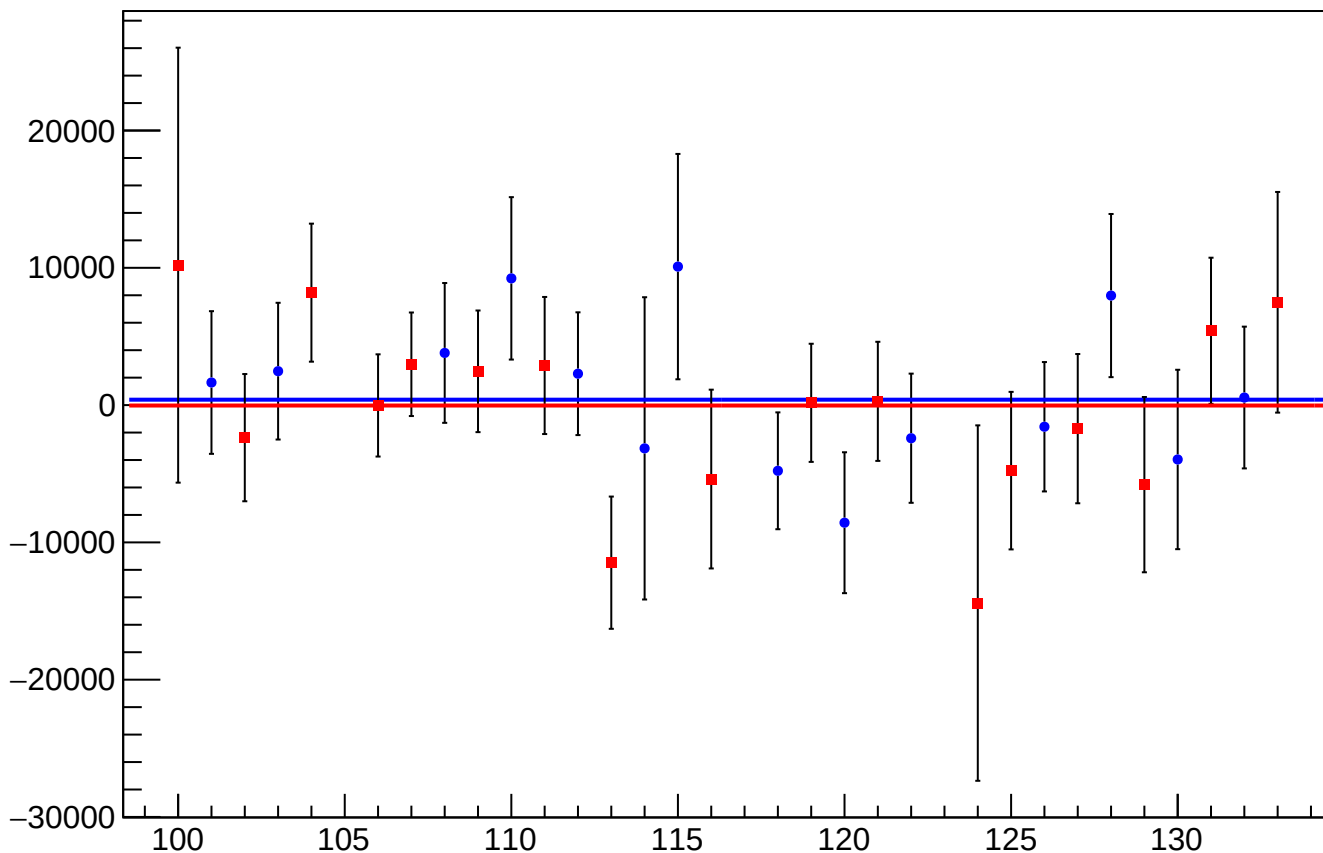
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1292.652+/-0.262  $\chi^2/\text{NDF}$ : 706498.7/30

- 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: 394.689 $\pm$ 1428.120  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -30.498 $\pm$ 1247.039  $\chi^2$ /NDF: 15.7/16

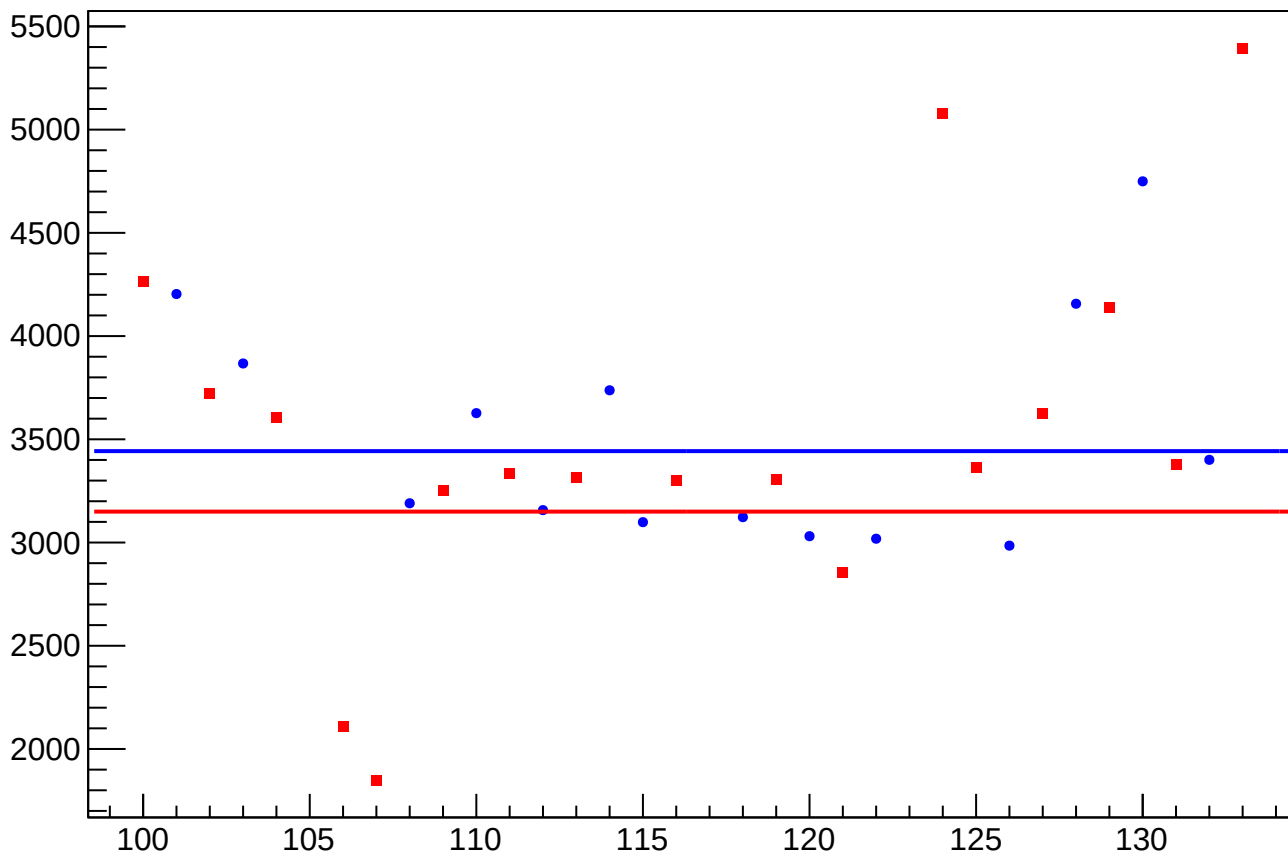
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 153.446 $\pm$ 939.329  $\chi^2$ /NDF: 27.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 3442.782+/-1.010  $\chi^2/\text{NDF}$ : 245738.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3149.762+/-0.882  $\chi^2/\text{NDF}$ : 741142.7/16

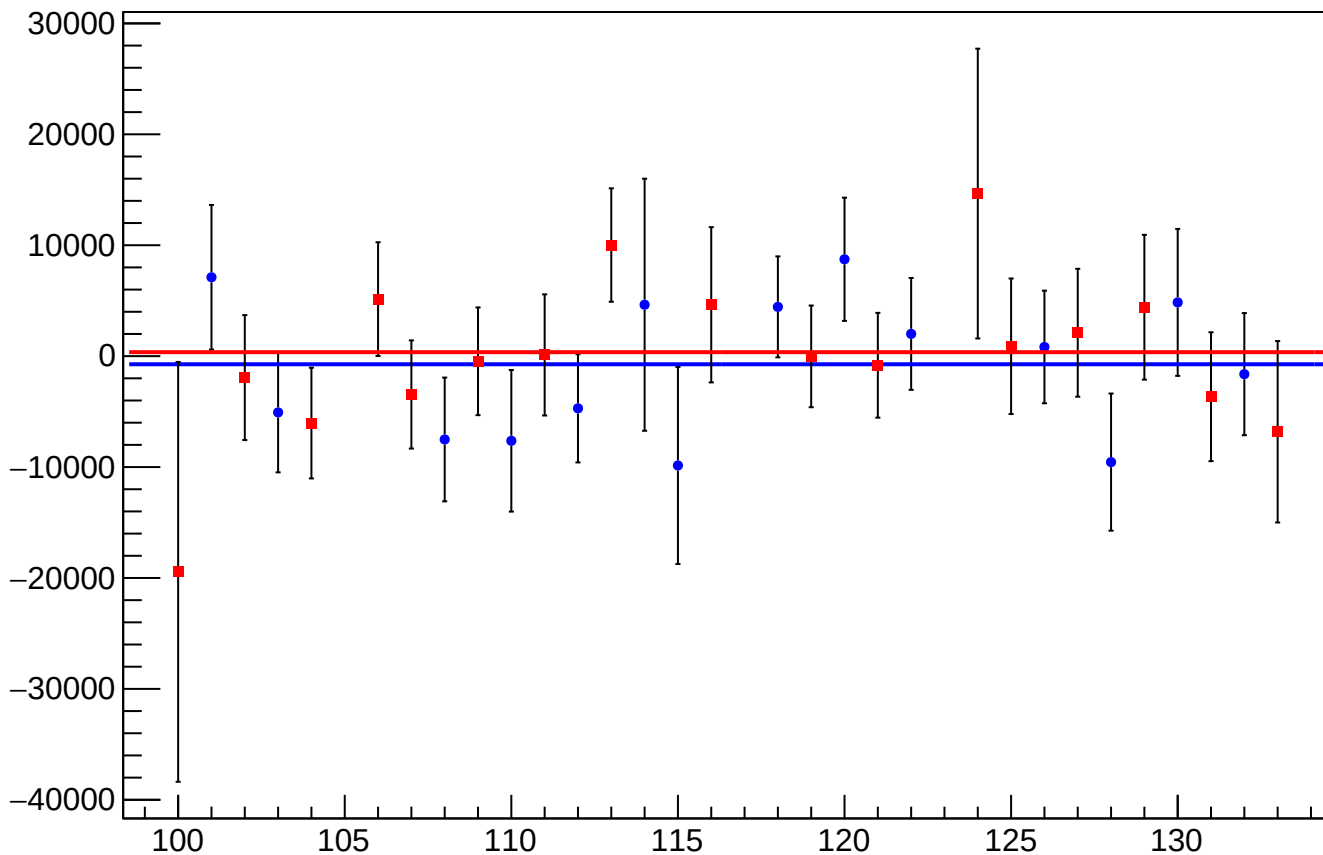
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3276.528+/-0.664  $\chi^2/\text{NDF}$ : 1034652.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug



Right In: -732.780 $\pm$ 1547.449  $\chi^2$ /NDF: 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 356.476 $\pm$ 1397.238  $\chi^2$ /NDF: 11.4/16

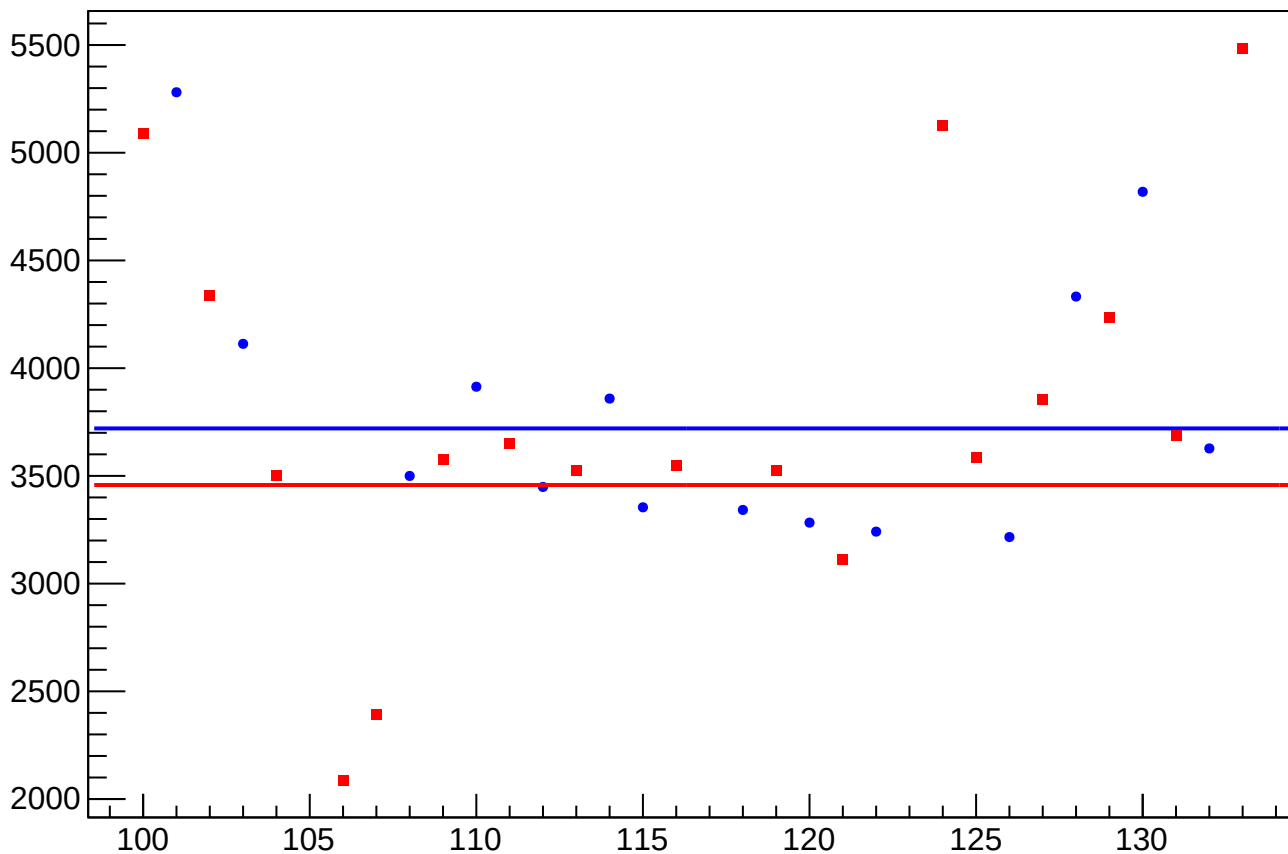
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -132.732 $\pm$ 1037.047  $\chi^2$ /NDF: 25.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug



Right In: 3720.318+/-1.094  $\chi^2/\text{NDF}$ : 279184.5/13

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

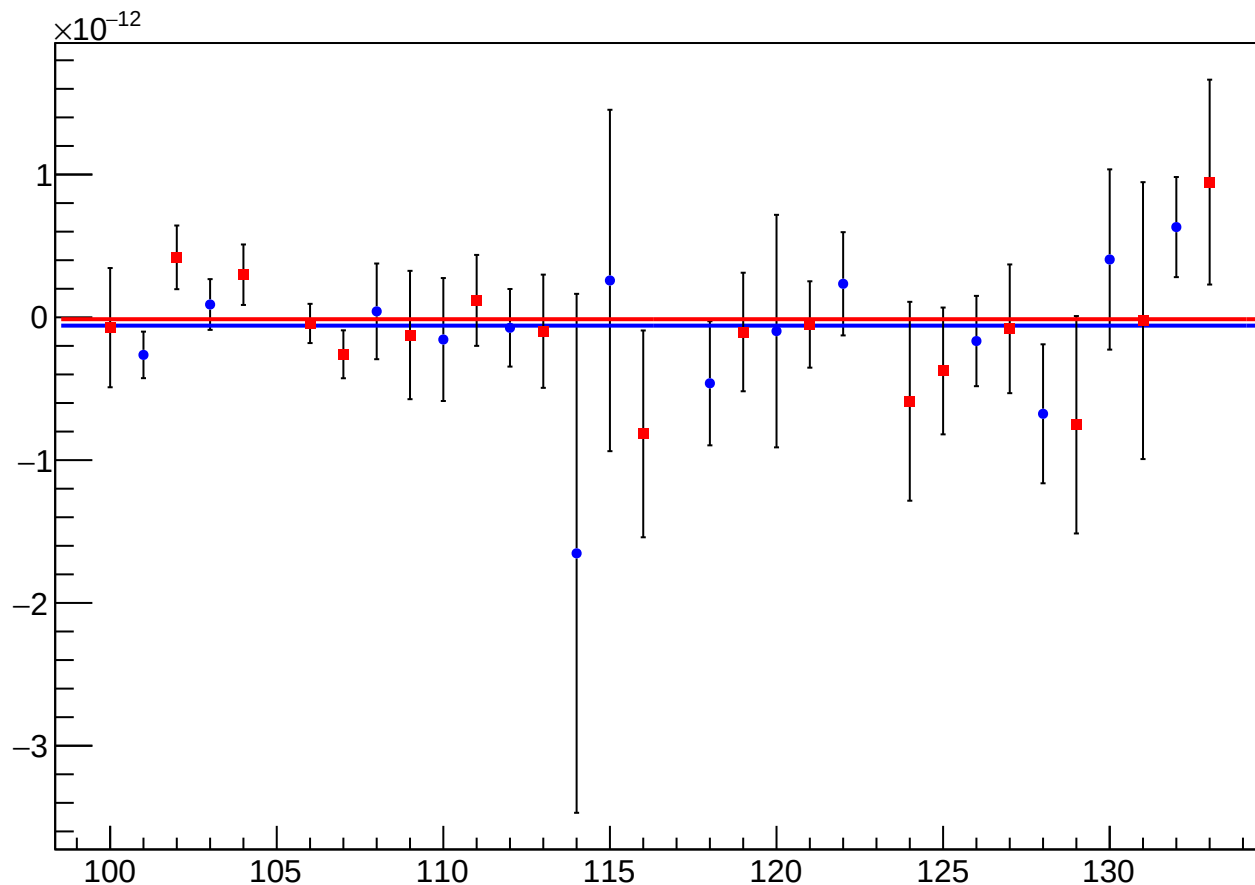
Right Out: 3457.587+/-0.973  $\chi^2/\text{NDF}$ : 572805.3/16

All: 3573.641+/-0.727  $\chi^2/\text{NDF}$ : 884176.9/30

- 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\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.8/16

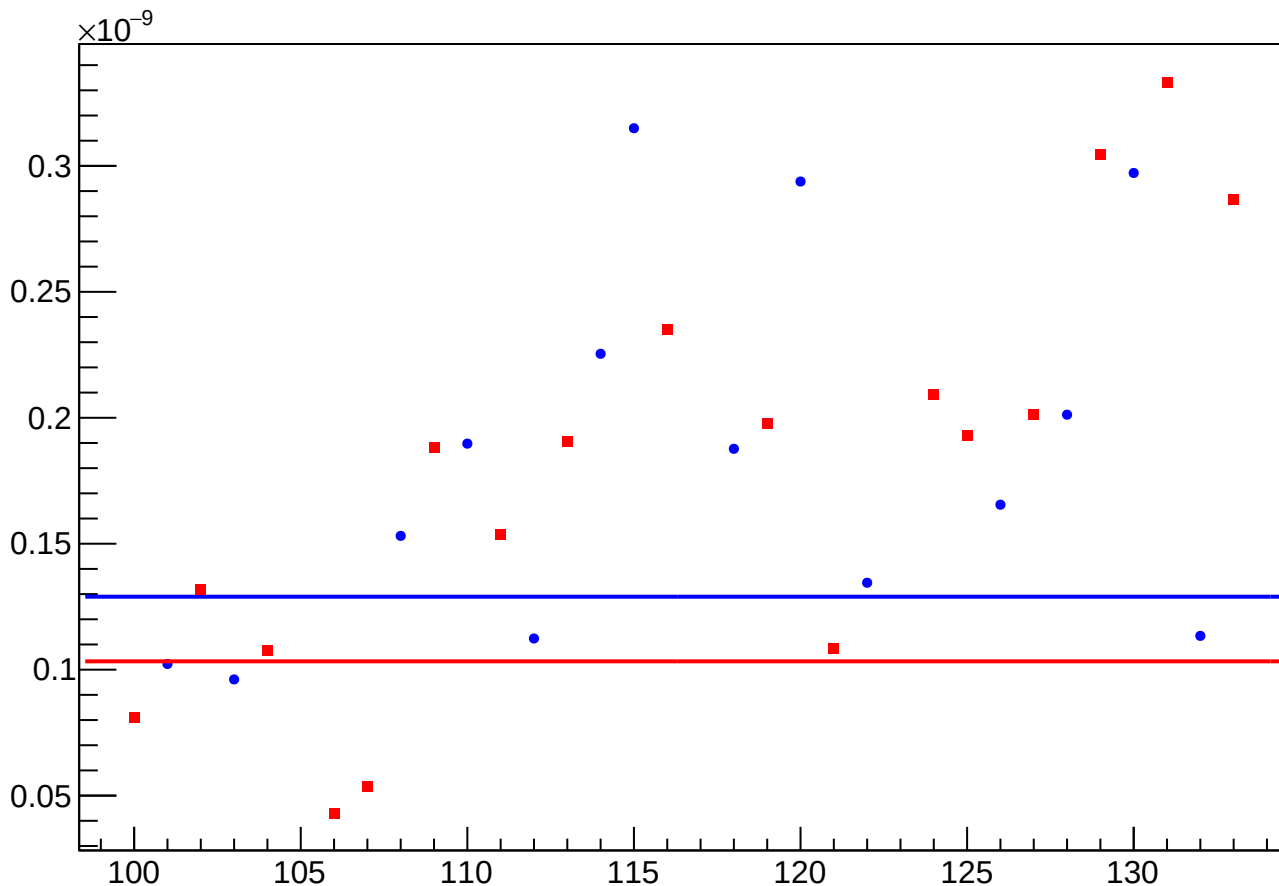
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 24.9/30

- 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: 569496.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1596591.4/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

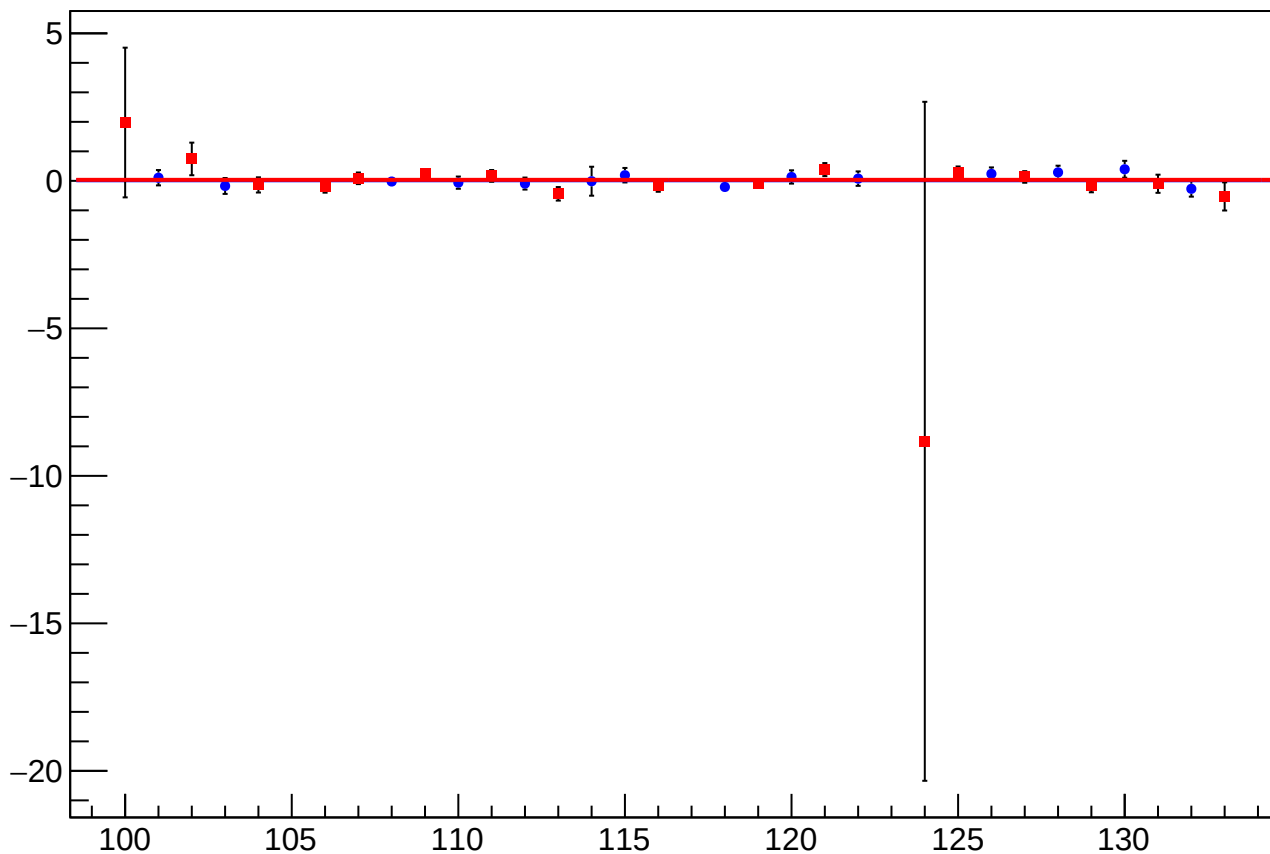
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2271899.8/30

- 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: 0.019 $\pm$ 0.060  $\chi^2$ /NDF: 9.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.034 $\pm$ 0.056  $\chi^2$ /NDF: 19.6/16

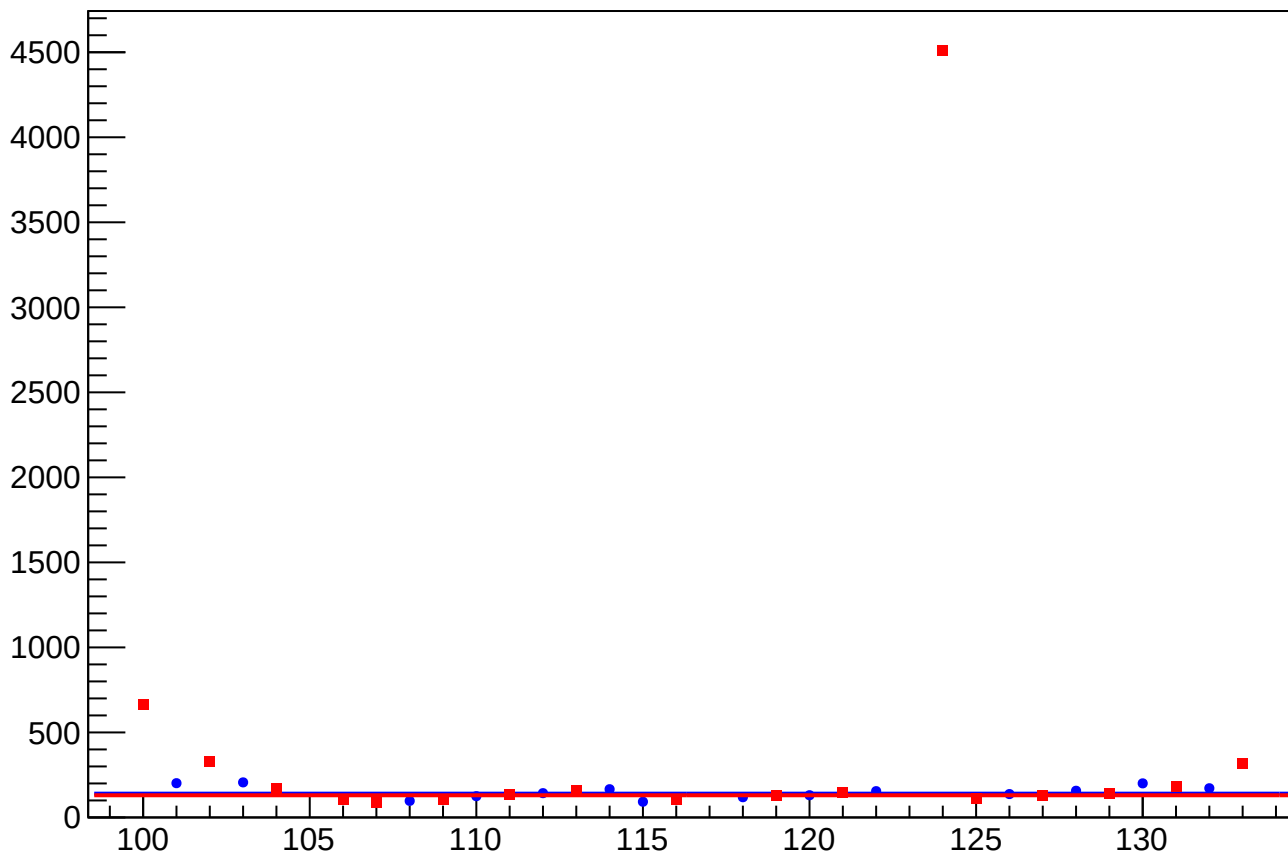
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.027 $\pm$ 0.041  $\chi^2$ /NDF: 28.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 139.902+/-0.043  $\chi^2/\text{NDF}$ : 637807.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 130.506+/-0.039  $\chi^2/\text{NDF}$ : 1302037.0/16

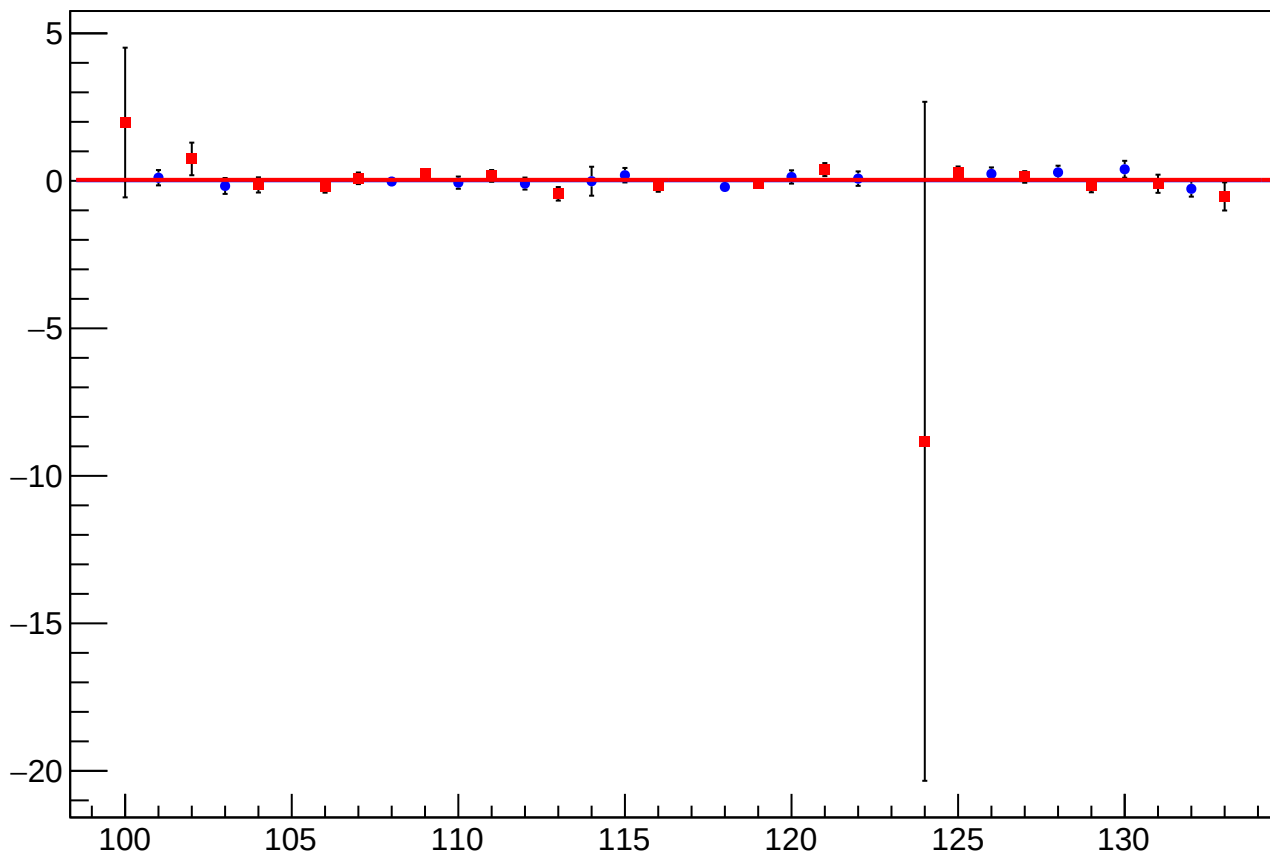
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 134.849+/-0.029  $\chi^2/\text{NDF}$ : 1966105.3/30

- 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: 0.019+/-0.060  $\chi^2/\text{NDF}$ : 9.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.034+/-0.056  $\chi^2/\text{NDF}$ : 19.6/16

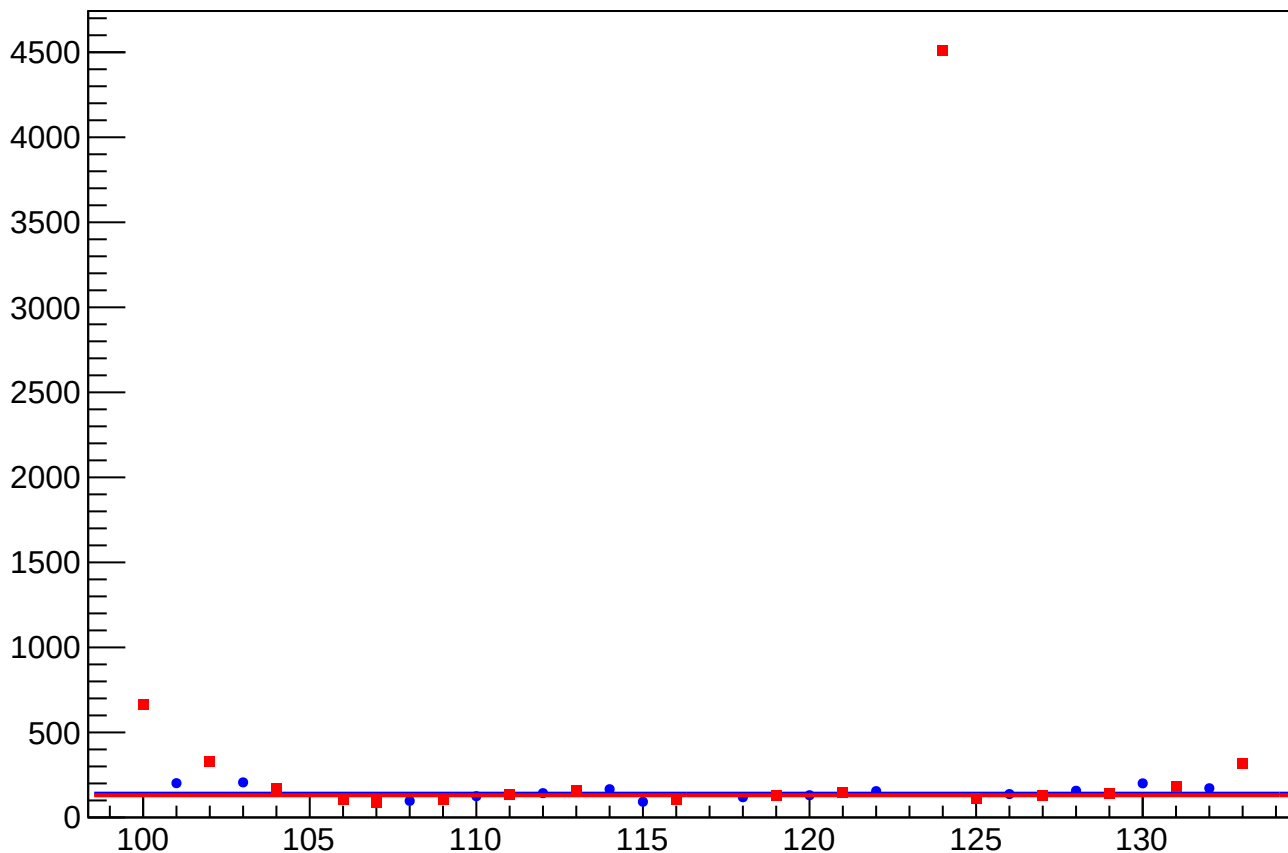
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.027+/-0.041  $\chi^2/\text{NDF}$ : 28.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 139.902+/-0.043  $\chi^2/\text{NDF}$ : 637807.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 130.506+/-0.039  $\chi^2/\text{NDF}$ : 1302037.0/16

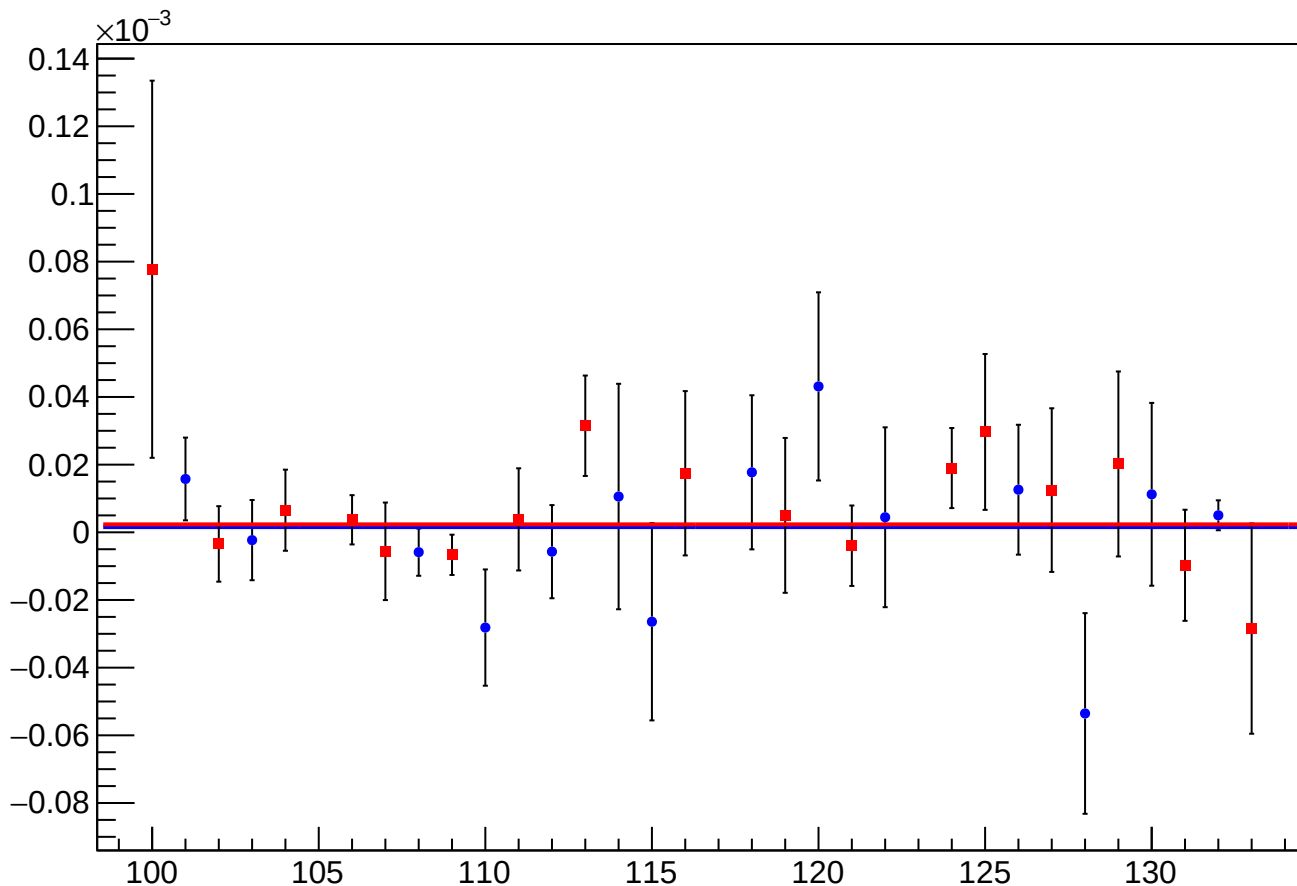
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 134.849+/-0.029  $\chi^2/\text{NDF}$ : 1966105.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 14.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.9/16

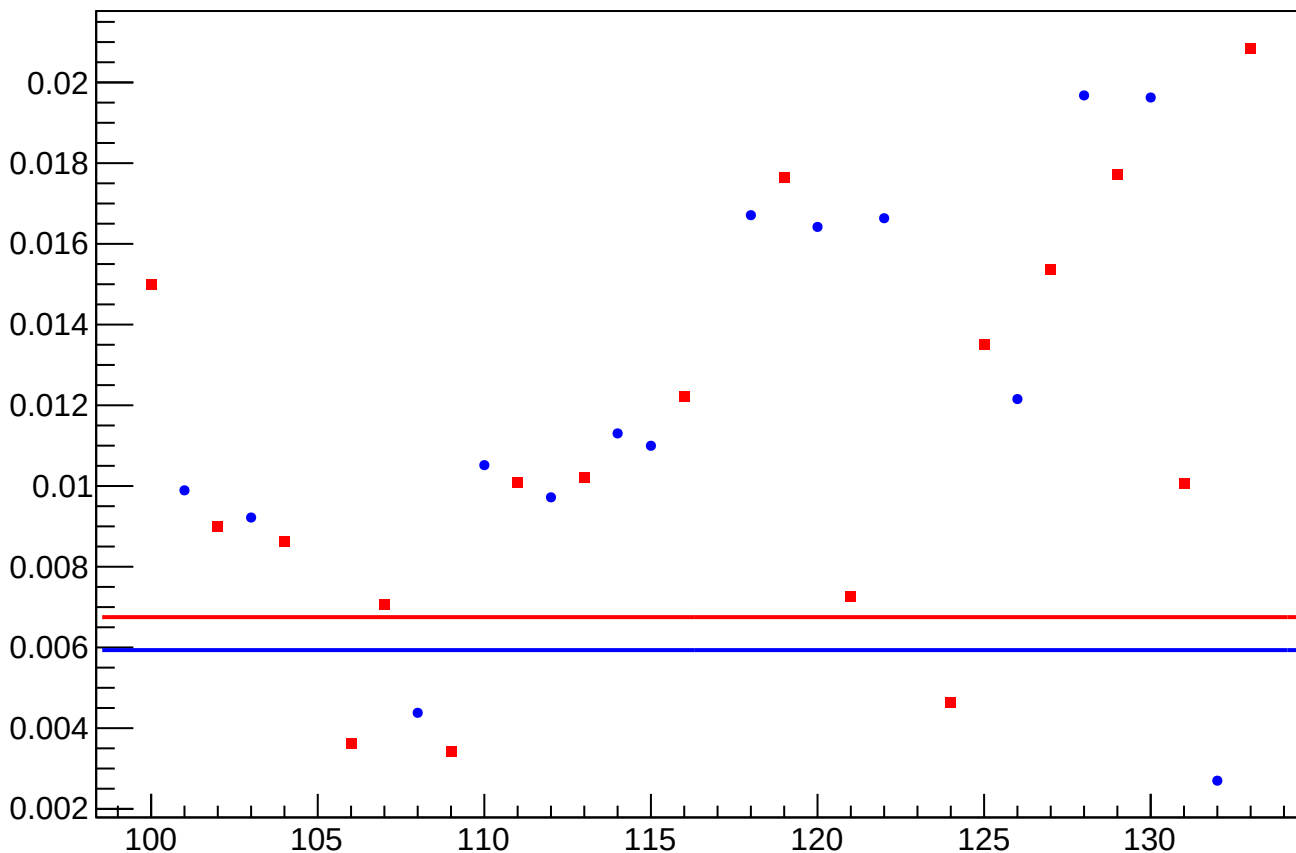
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 29.1/30

- 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: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 4146422.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 3236557.9/16

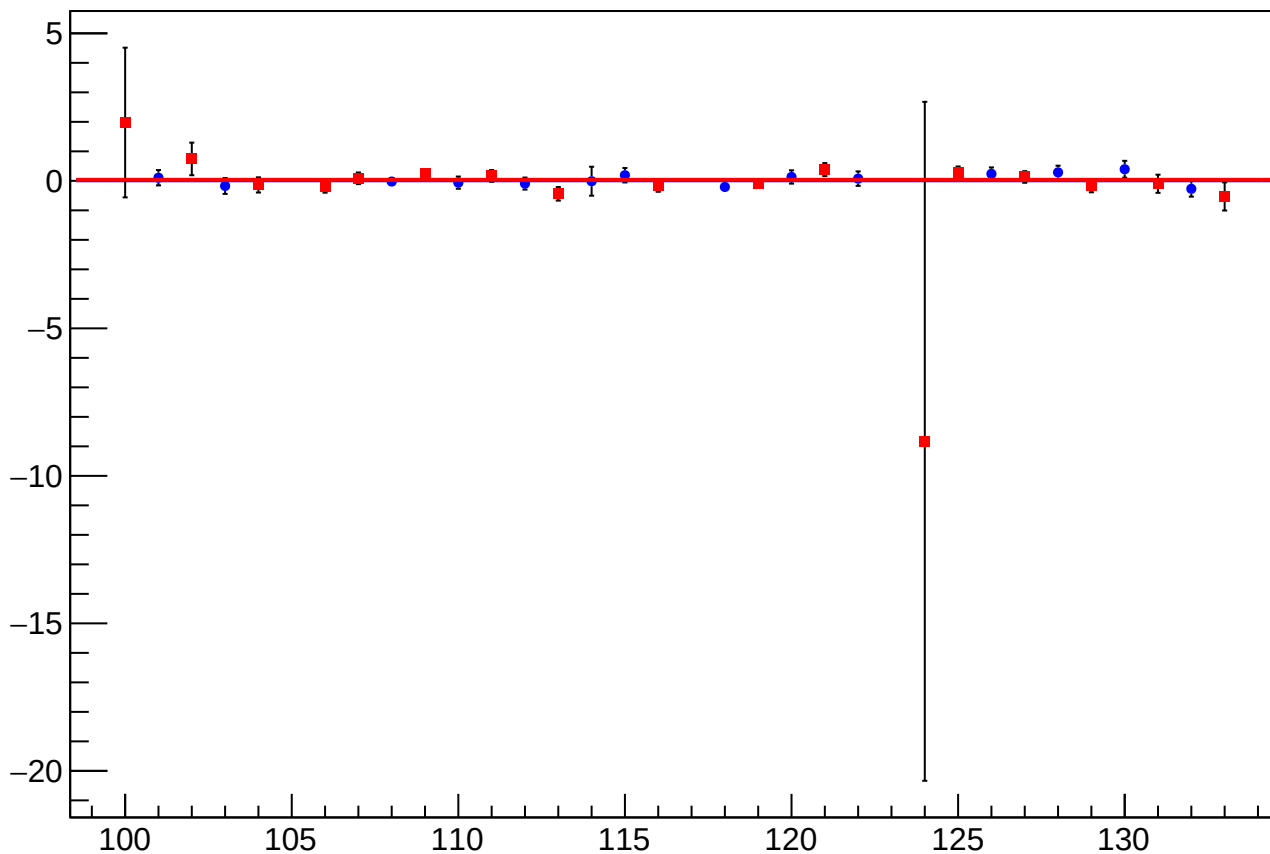
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 7452952.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.019+/-0.060  $\chi^2/\text{NDF}$ : 9.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.034+/-0.056  $\chi^2/\text{NDF}$ : 19.6/16

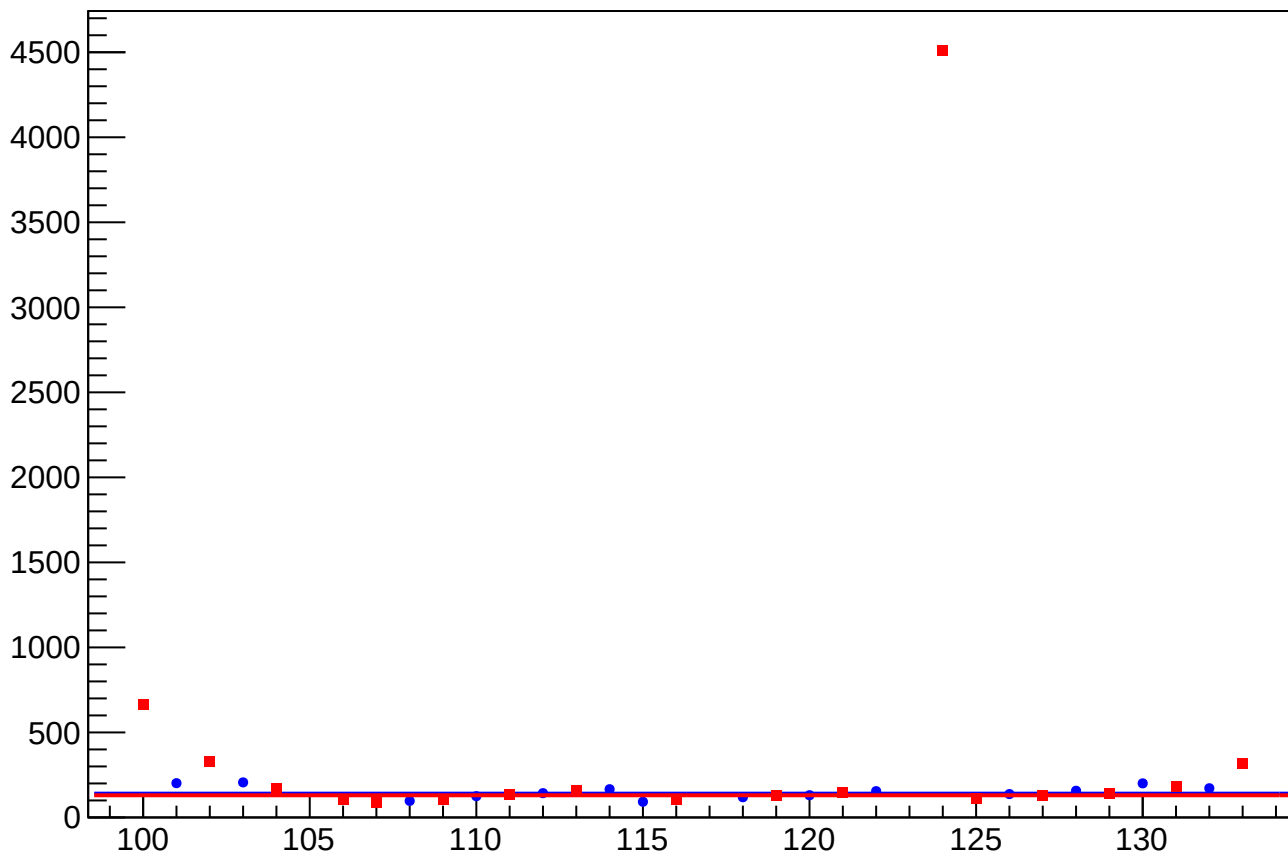
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.027+/-0.041  $\chi^2/\text{NDF}$ : 28.8/30

- 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: 139.902 $\pm$ 0.043  $\chi^2$ /NDF: 637732.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 130.507 $\pm$ 0.039  $\chi^2$ /NDF: 1301957.4/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

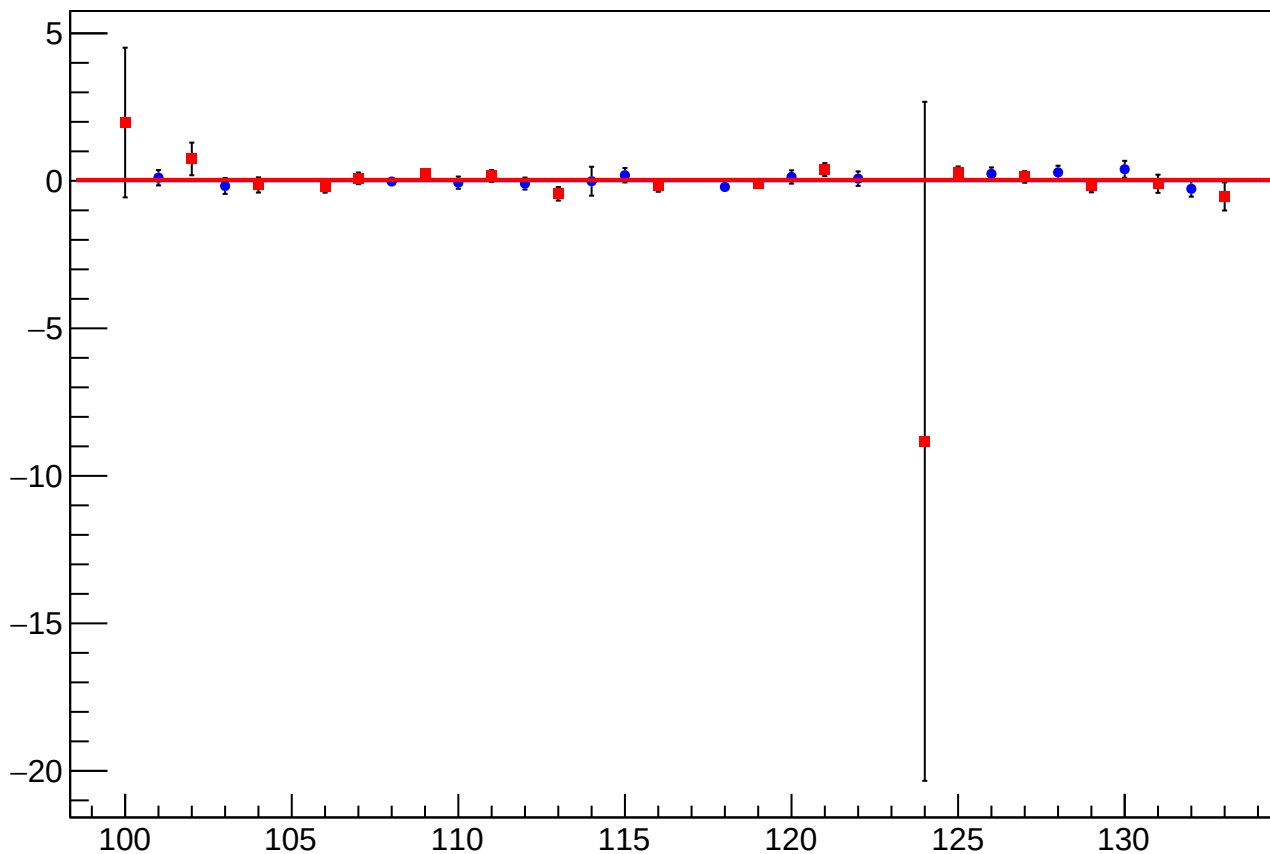
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 134.849 $\pm$ 0.029  $\chi^2$ /NDF: 1965942.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.019+/-0.060  $\chi^2/\text{NDF}$ : 9.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.034+/-0.056  $\chi^2/\text{NDF}$ : 19.6/16

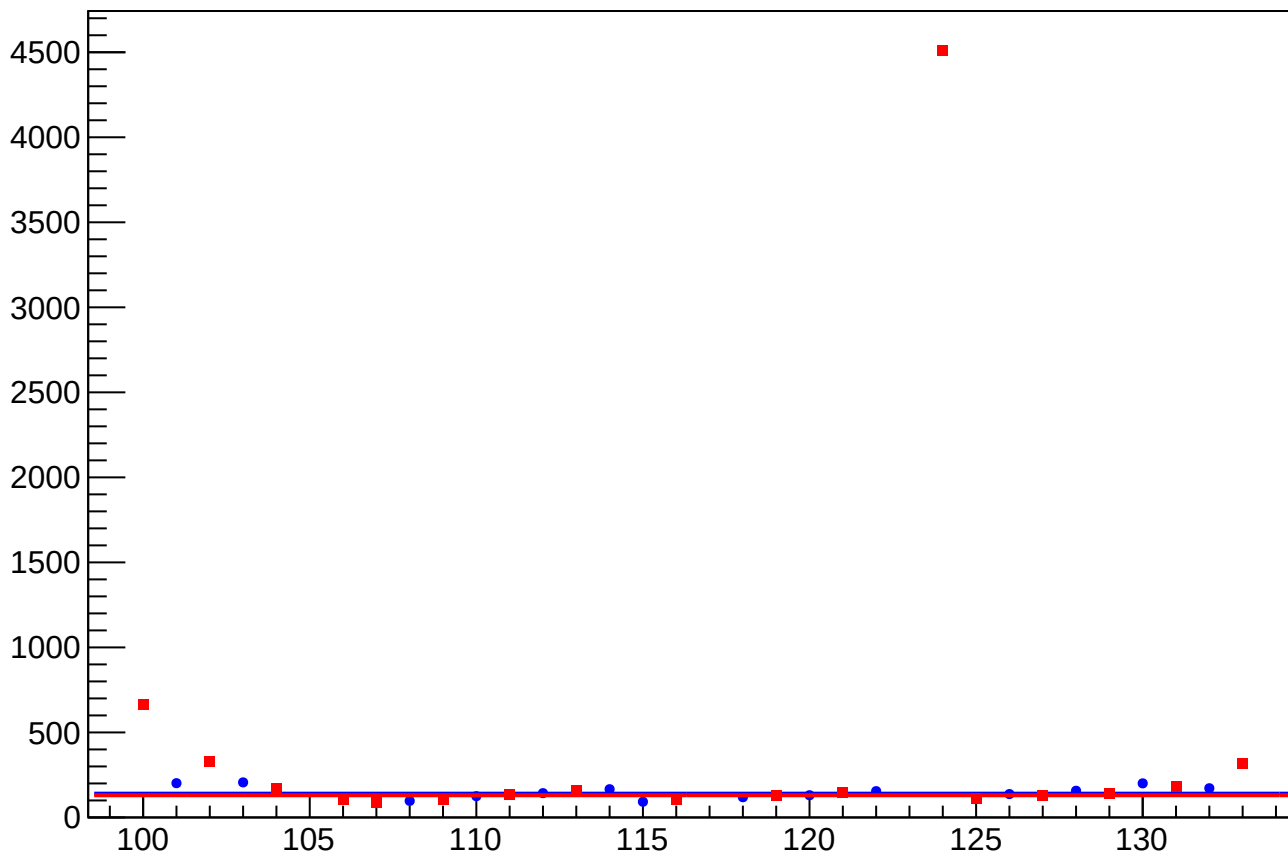
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.027+/-0.041  $\chi^2/\text{NDF}$ : 28.8/30

- 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: 139.902 $\pm$ 0.043  $\chi^2$ /NDF: 637732.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 130.507 $\pm$ 0.039  $\chi^2$ /NDF: 1301957.4/16

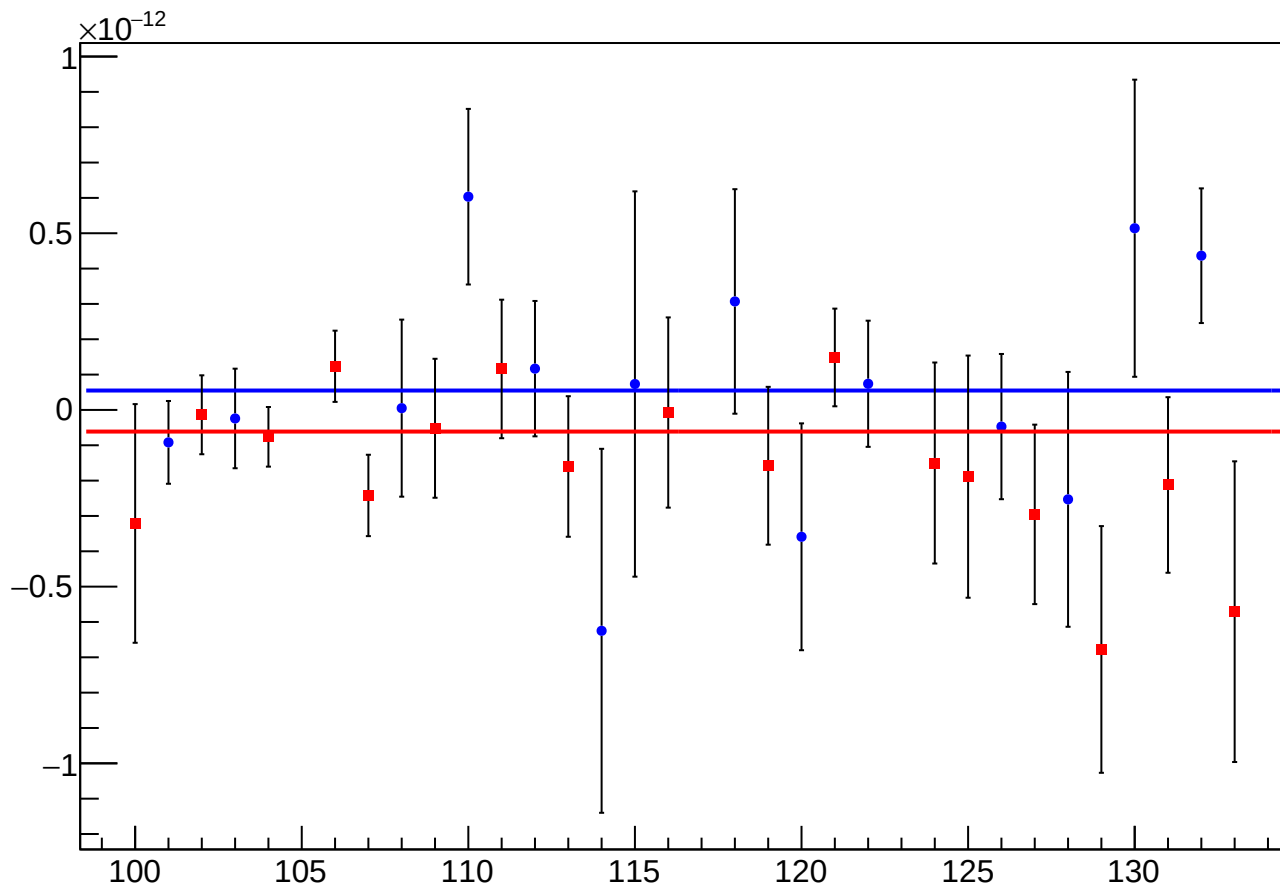
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 134.849 $\pm$ 0.029  $\chi^2$ /NDF: 1965942.5/30

- 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:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 17.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 16.2/16

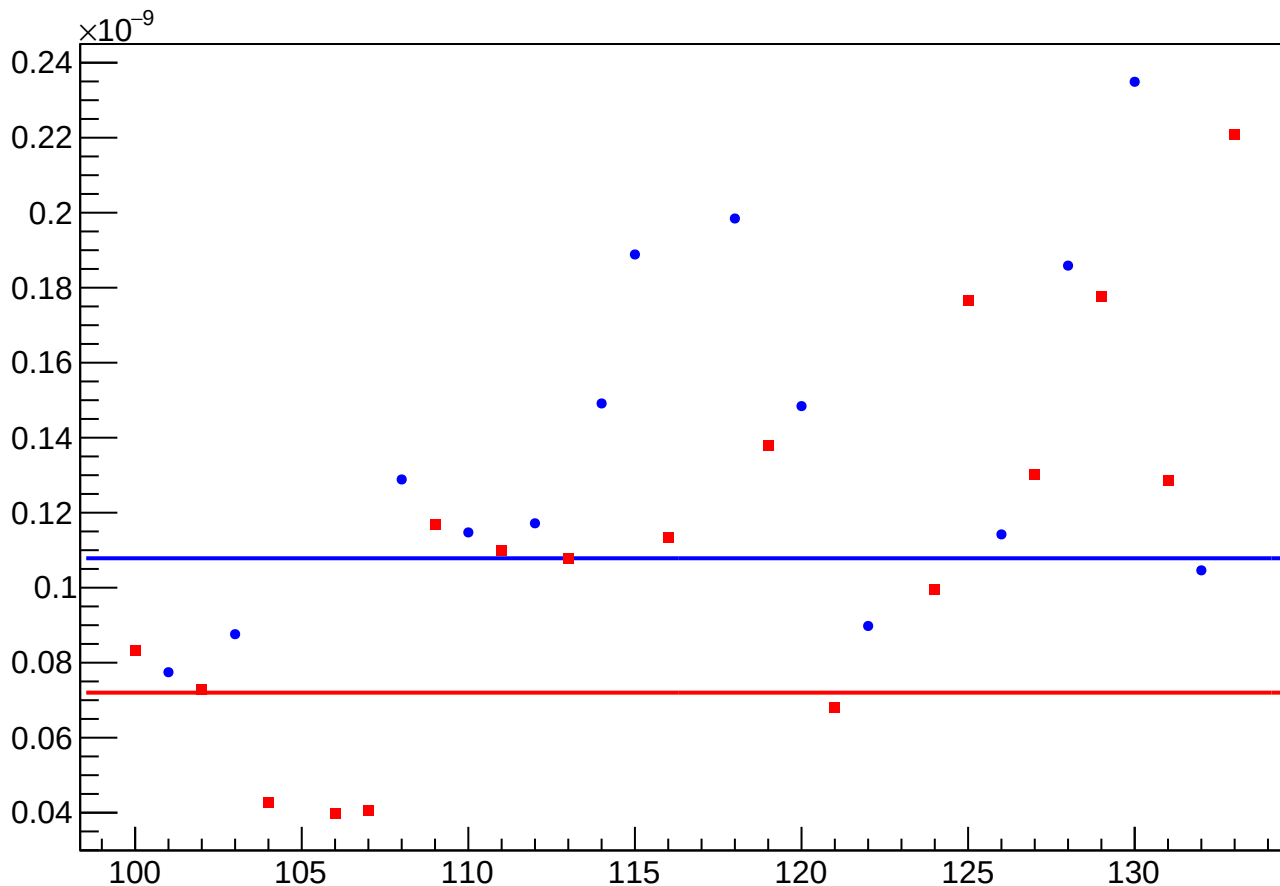
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 36.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 747350.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1902273.2/16

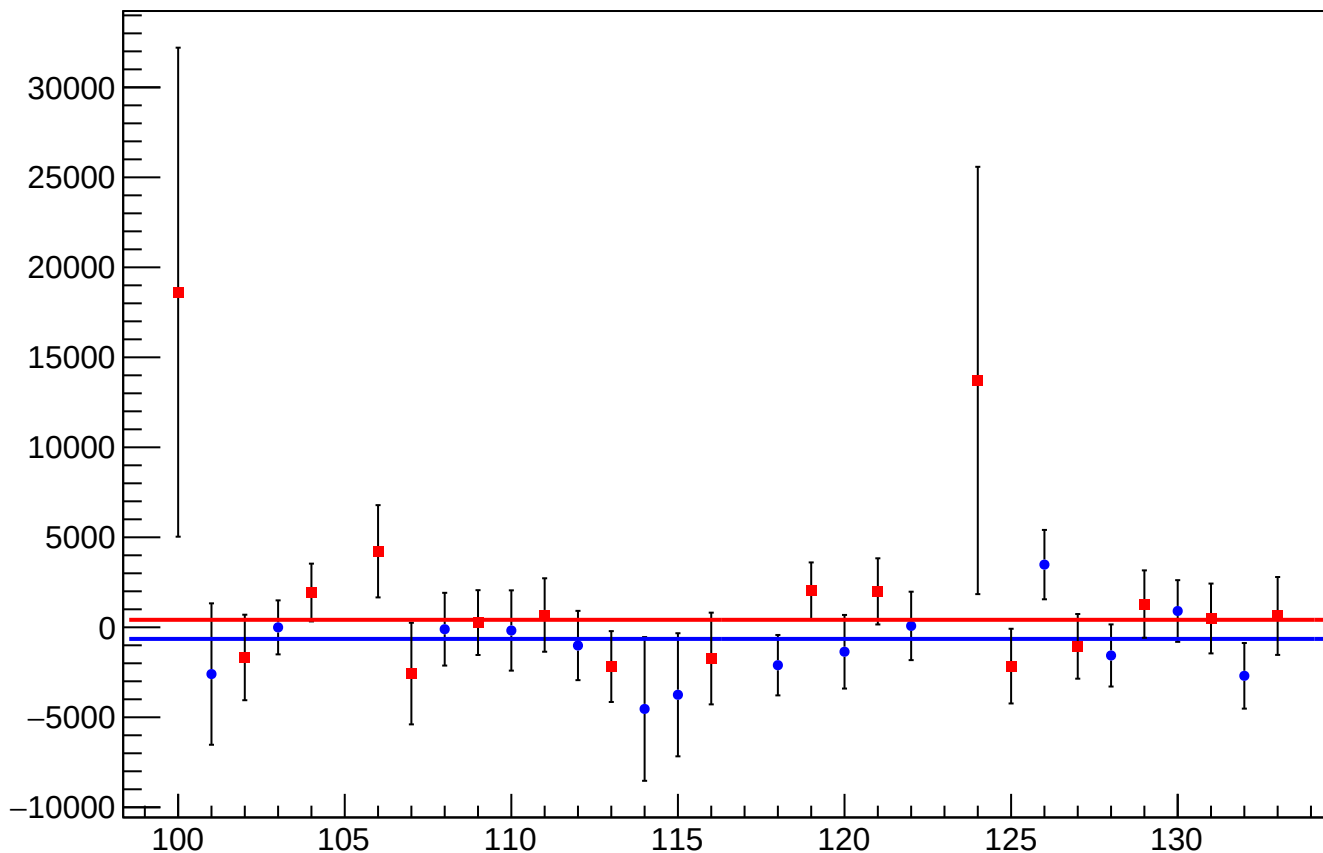
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3178672.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In:  $-644.864 \pm 535.267$   $\chi^2/\text{NDF}$ : 10.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $416.064 \pm 511.787$   $\chi^2/\text{NDF}$ : 14.7/16

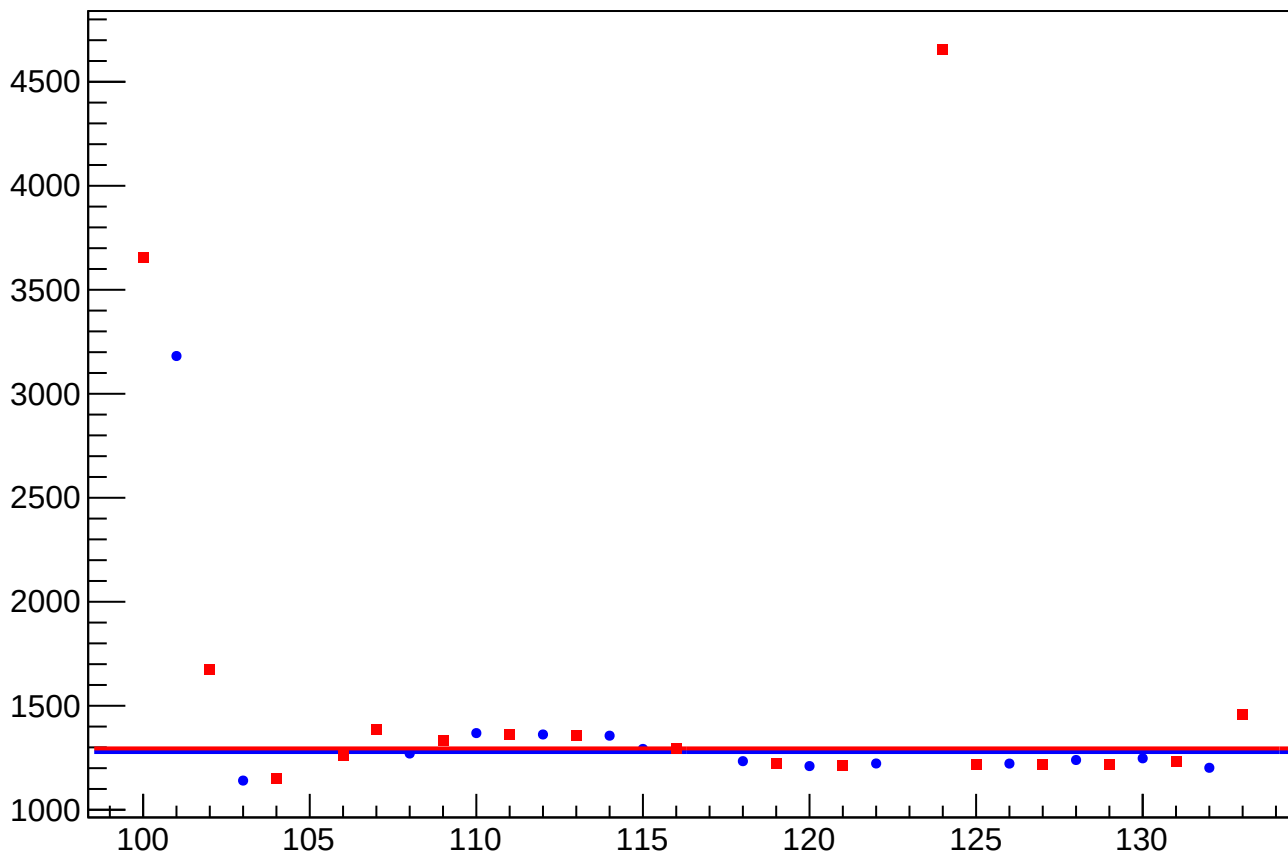
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-90.621 \pm 369.910$   $\chi^2/\text{NDF}$ : 27.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1277.598+/-0.378  $\chi^2/\text{NDF}$ : 506454.0/13

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

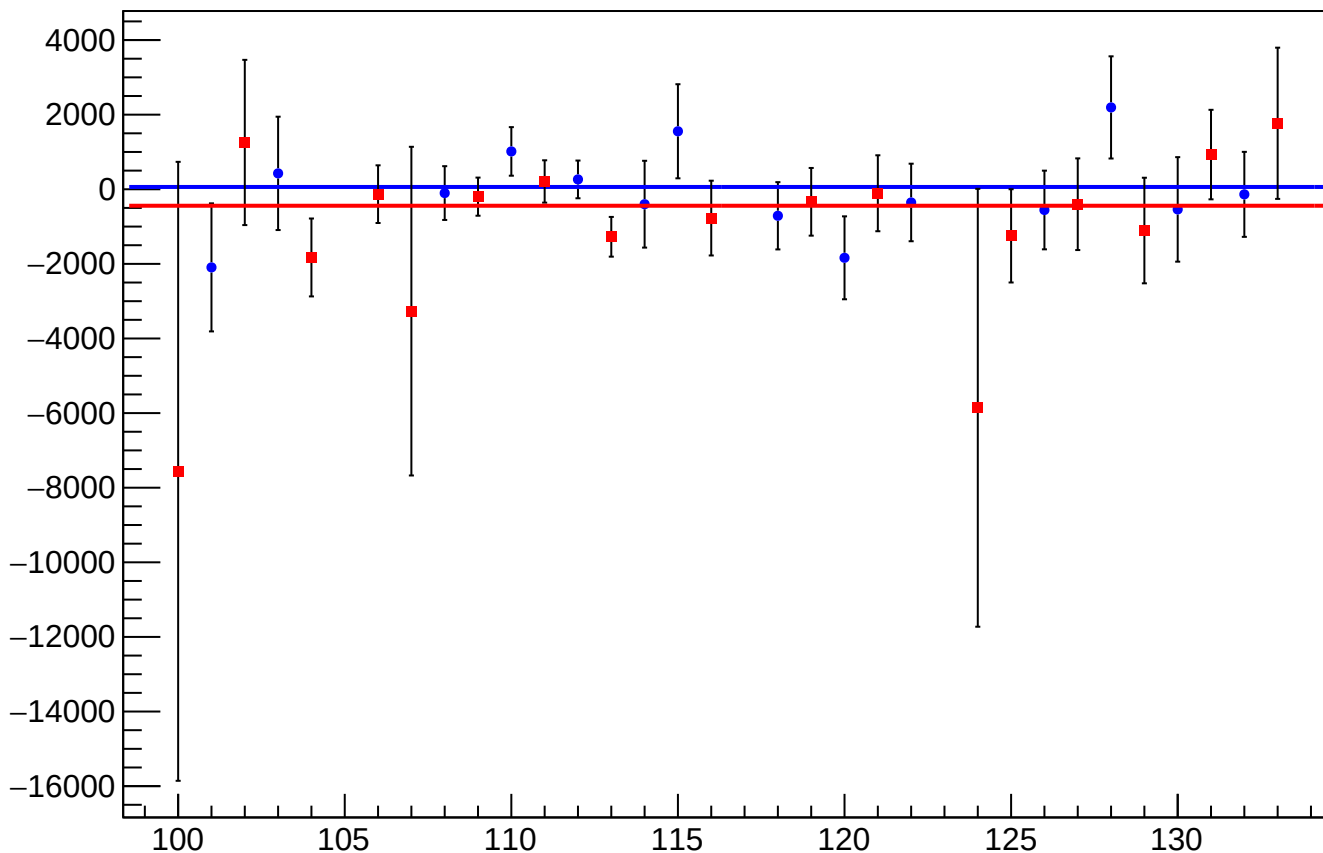
Right Out: 1294.931+/-0.362  $\chi^2/\text{NDF}$ : 327826.2/16

All: 1286.653+/-0.262  $\chi^2/\text{NDF}$ : 835375.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_correction\_mean vs Slug



Right In: 61.823+/-249.878  $\chi^2/\text{NDF}$ : 12.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -441.609+/-227.848  $\chi^2/\text{NDF}$ : 11.9/16

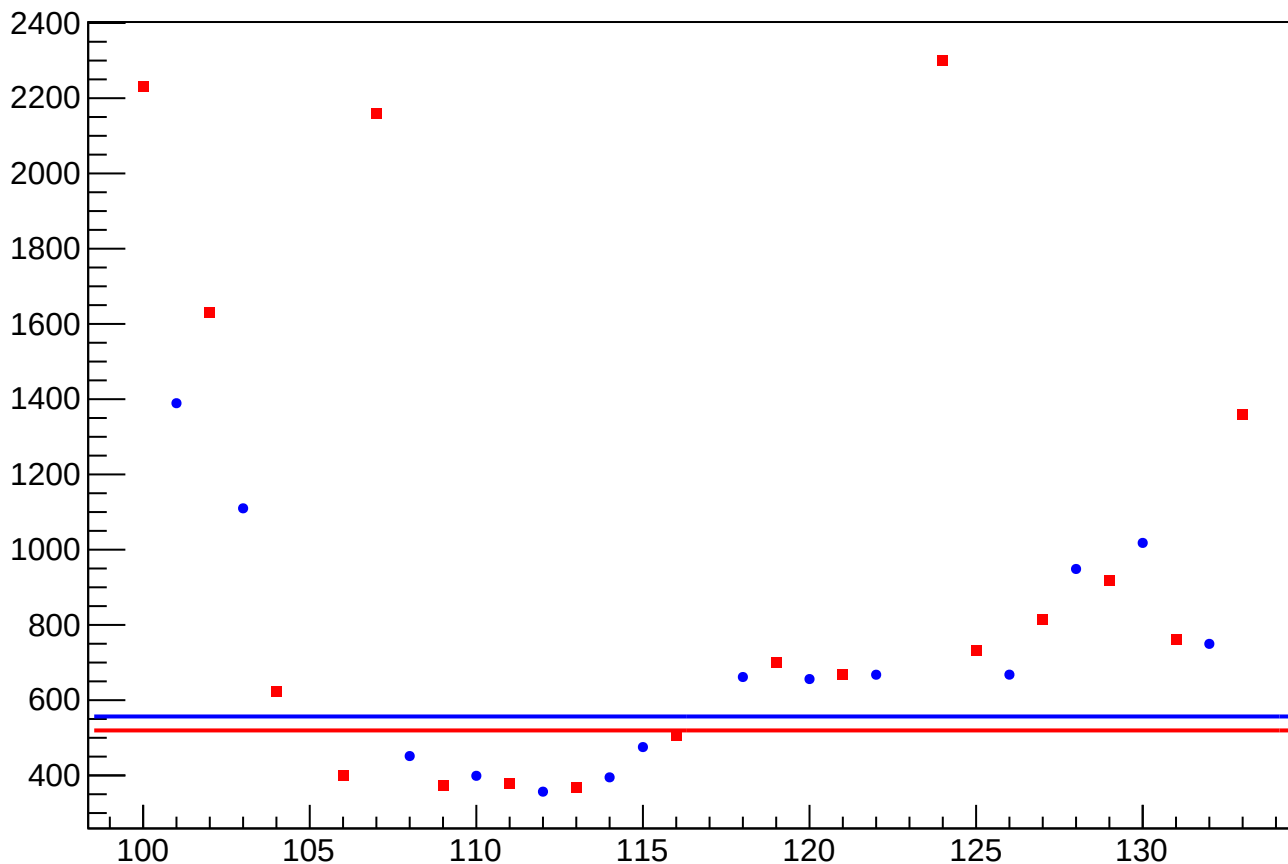
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -213.059+/-168.363  $\chi^2/\text{NDF}$ : 26.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_correction\_rms vs Slug



Right In: 556.674+/-0.177  $\chi^2/\text{NDF}$ : 1781967.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 519.572+/-0.161  $\chi^2/\text{NDF}$ : 2444739.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

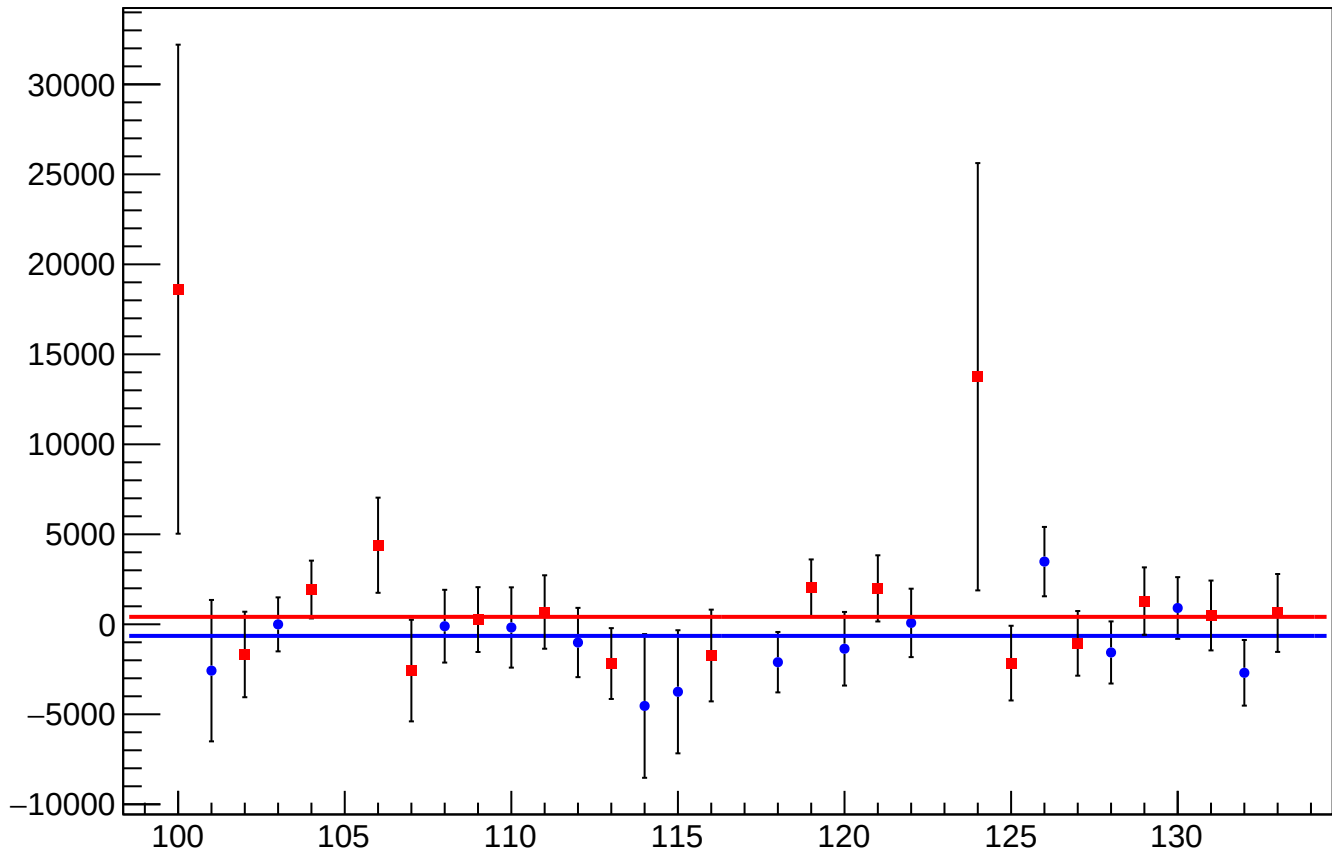
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 536.415+/-0.119  $\chi^2/\text{NDF}$ : 4250782.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -644.346+/-535.267  $\chi^2/\text{NDF}$ : 10.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 413.469+/-512.399  $\chi^2/\text{NDF}$ : 14.8/16

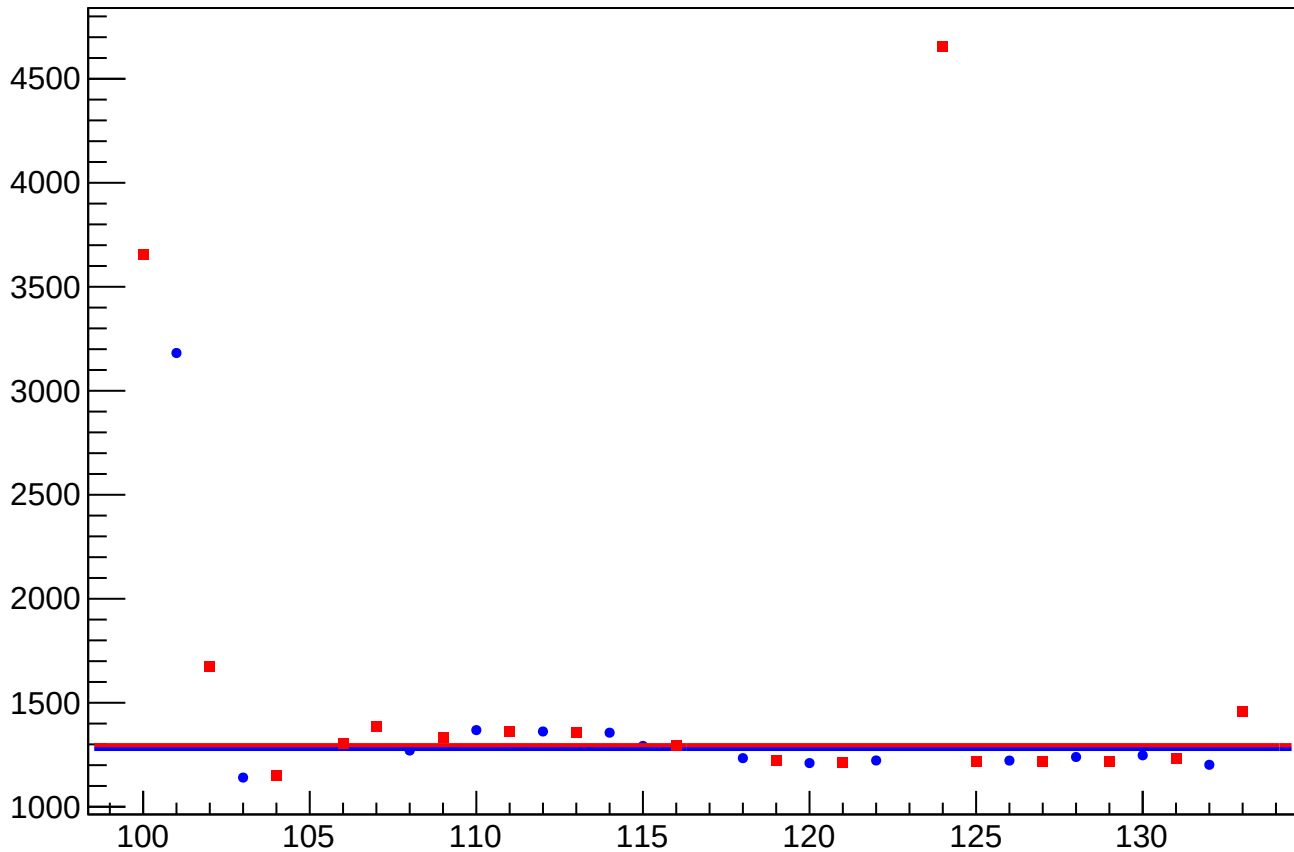
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -92.359+/-370.141  $\chi^2/\text{NDF}$ : 27.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1277.598 $\pm$ 0.378  $\chi^2$ /NDF: 506455.4/13

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

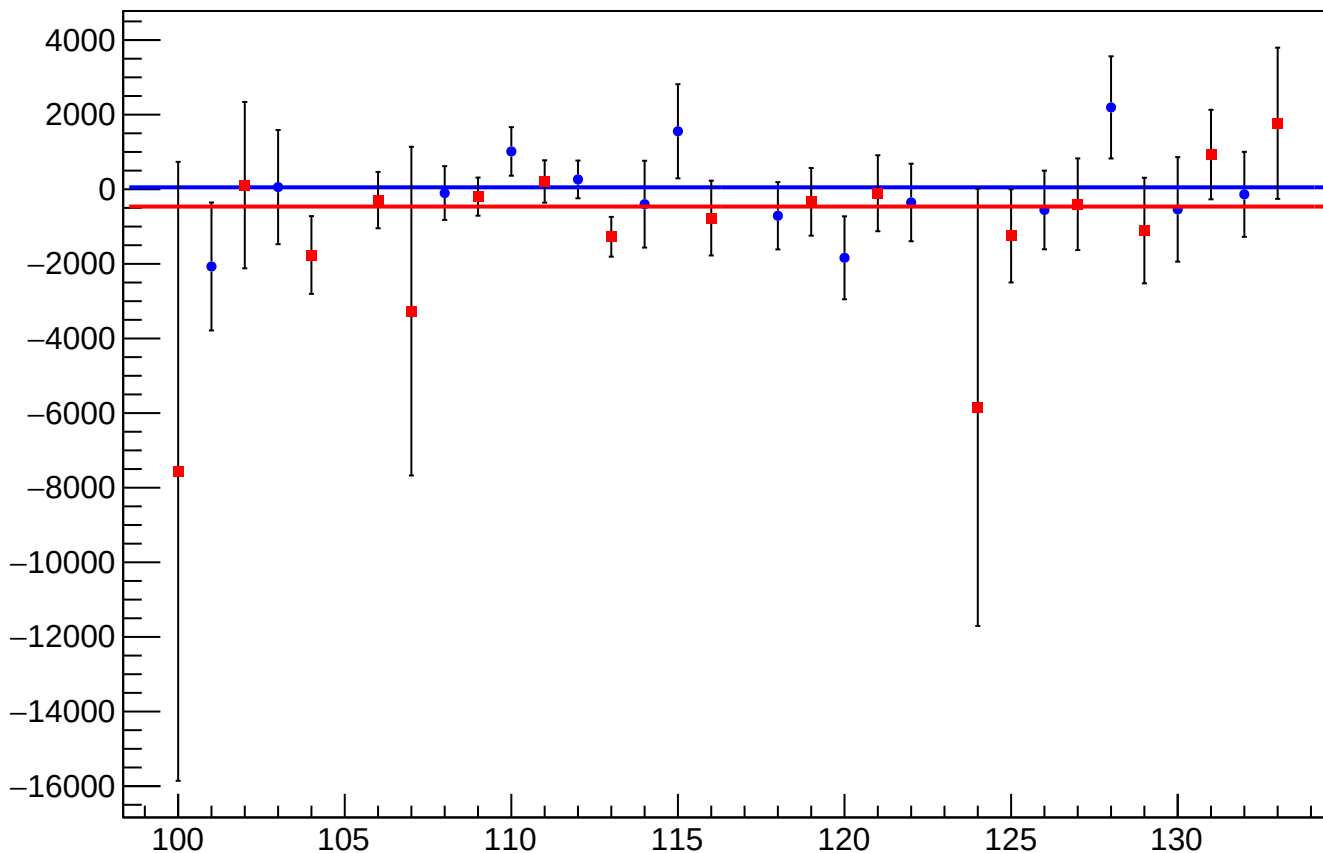
Right Out: 1296.539 $\pm$ 0.362  $\chi^2$ /NDF: 327520.9/16

All: 1287.482 $\pm$ 0.262  $\chi^2$ /NDF: 835283.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_cor\_correction\_mean vs Slug



Right In: 52.371+/-249.925  $\chi^2/\text{NDF}$ : 12.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -463.749+/-227.363  $\chi^2/\text{NDF}$ : 11.0/16

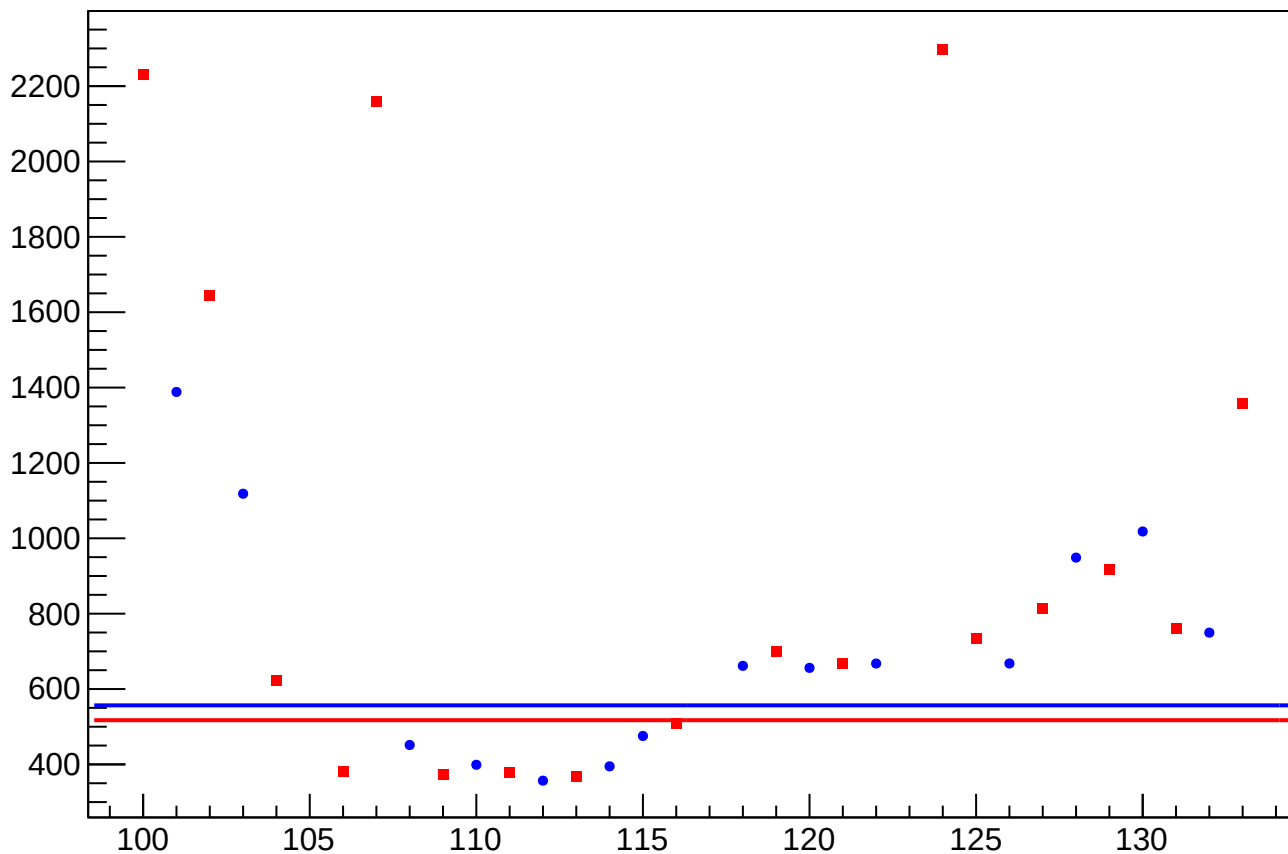
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -230.033+/-168.182  $\chi^2/\text{NDF}$ : 25.6/30

- 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: 556.685+/-0.177  $\chi^2/\text{NDF}$ : 1785638.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 517.287+/-0.161  $\chi^2/\text{NDF}$ : 2471265.9/16

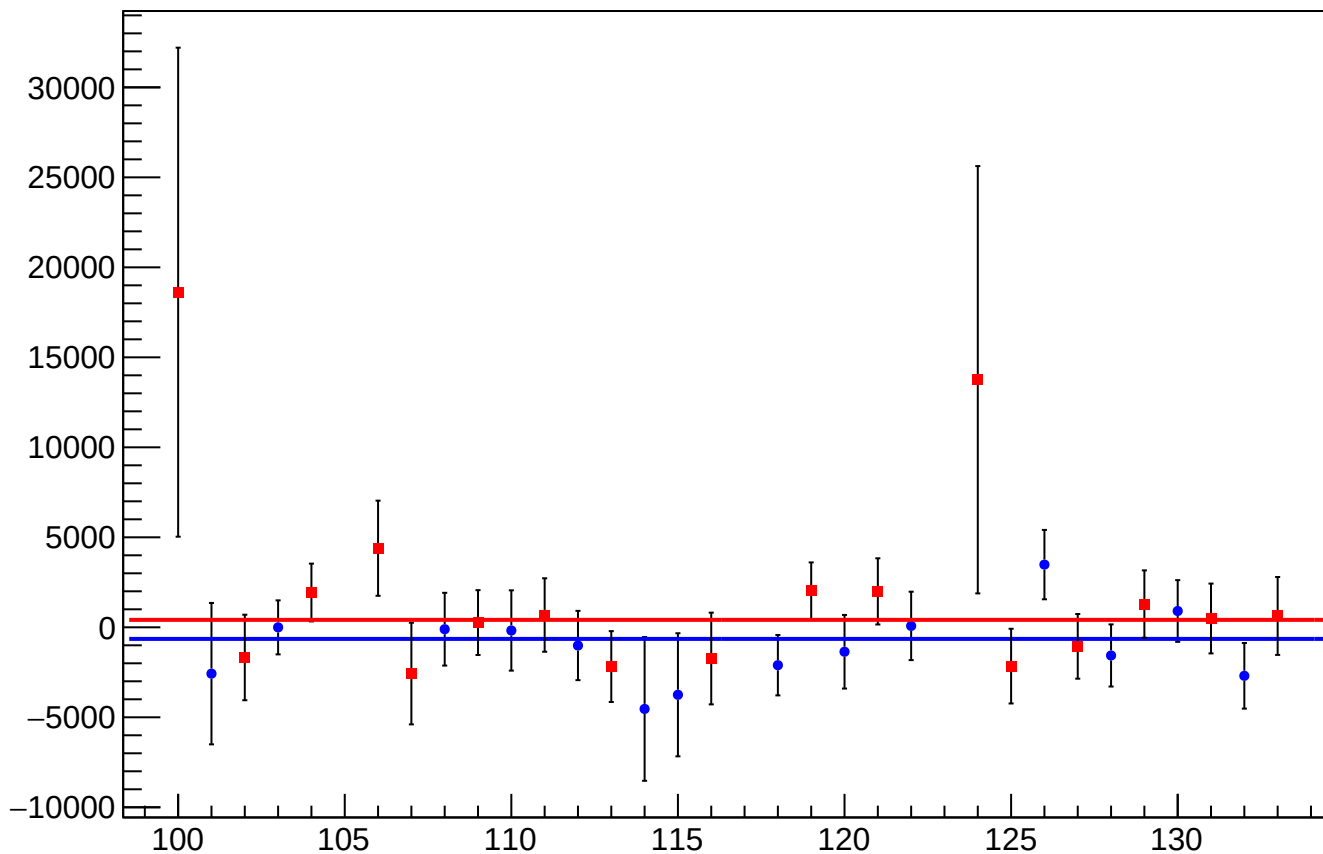
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 535.128+/-0.119  $\chi^2/\text{NDF}$ : 4284098.0/30

- 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: -644.346+/-535.267  $\chi^2/\text{NDF}$ : 10.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 413.469+/-512.399  $\chi^2/\text{NDF}$ : 14.8/16

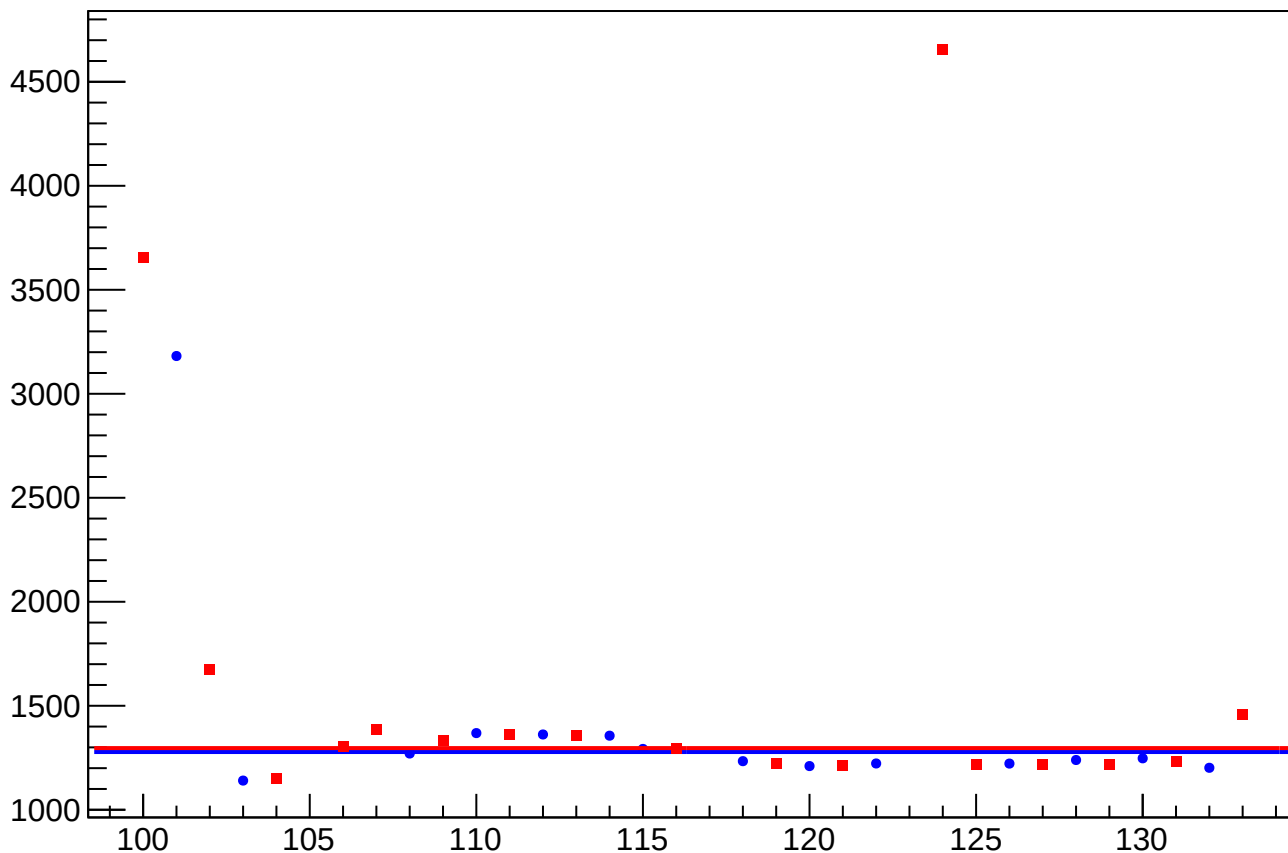
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -92.359+/-370.141  $\chi^2/\text{NDF}$ : 27.2/30

- 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: 1277.598 $\pm$ 0.378  $\chi^2$ /NDF: 506455.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1296.539 $\pm$ 0.362  $\chi^2$ /NDF: 327520.9/16

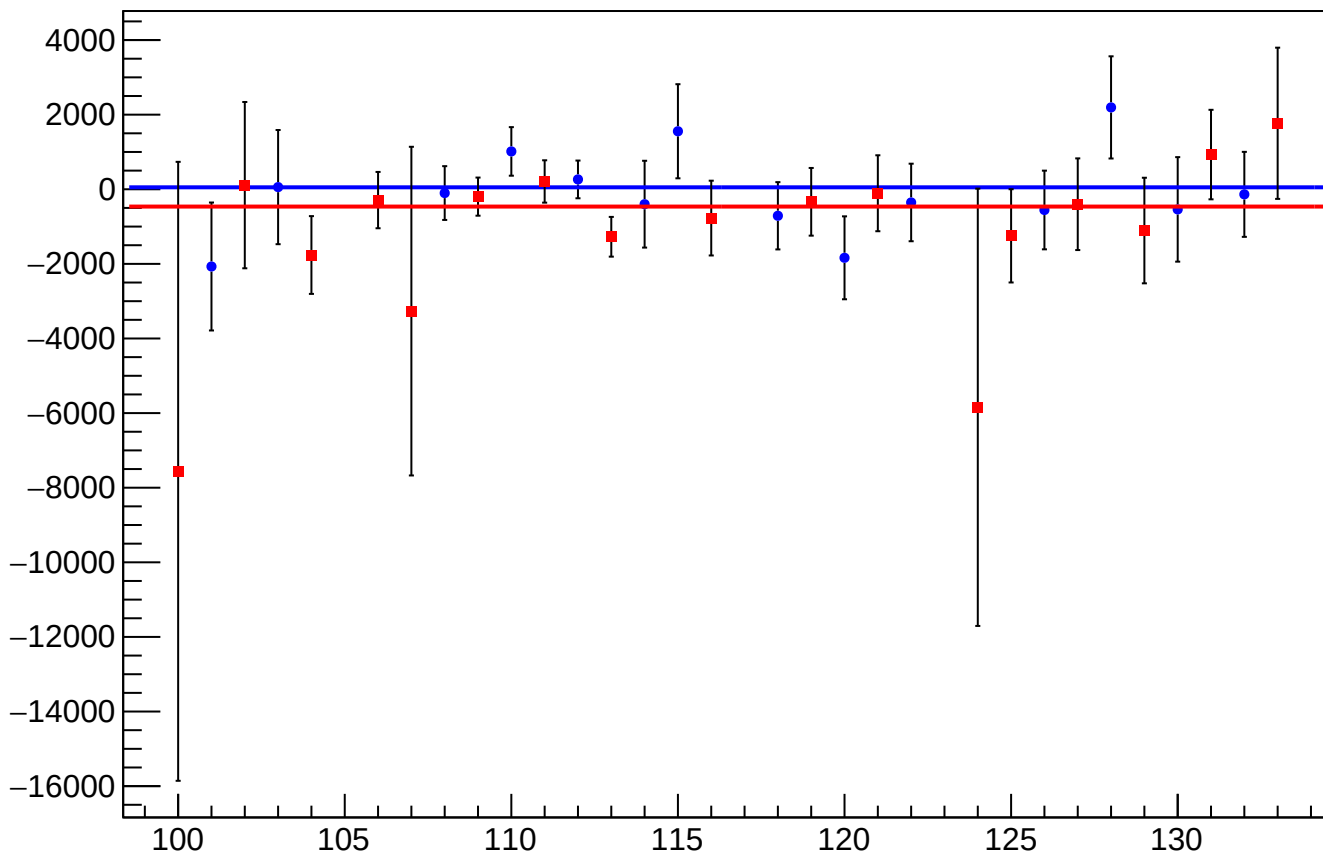
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1287.482 $\pm$ 0.262  $\chi^2$ /NDF: 835283.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 52.371+/-249.925  $\chi^2/\text{NDF}$ : 12.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -463.749+/-227.363  $\chi^2/\text{NDF}$ : 11.0/16

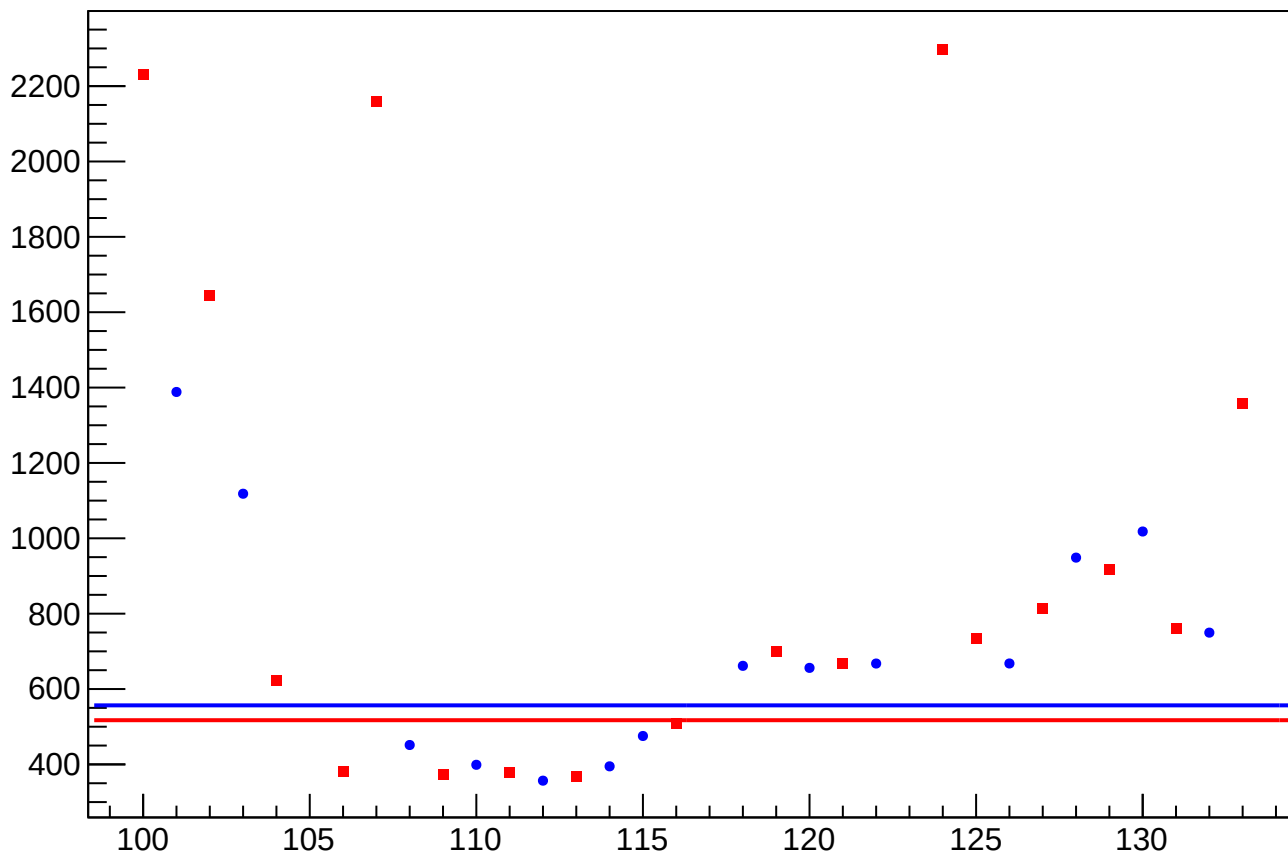
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -230.033+/-168.182  $\chi^2/\text{NDF}$ : 25.6/30

- 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: 556.685+/-0.177  $\chi^2/\text{NDF}$ : 1785638.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 517.287+/-0.161  $\chi^2/\text{NDF}$ : 2471265.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

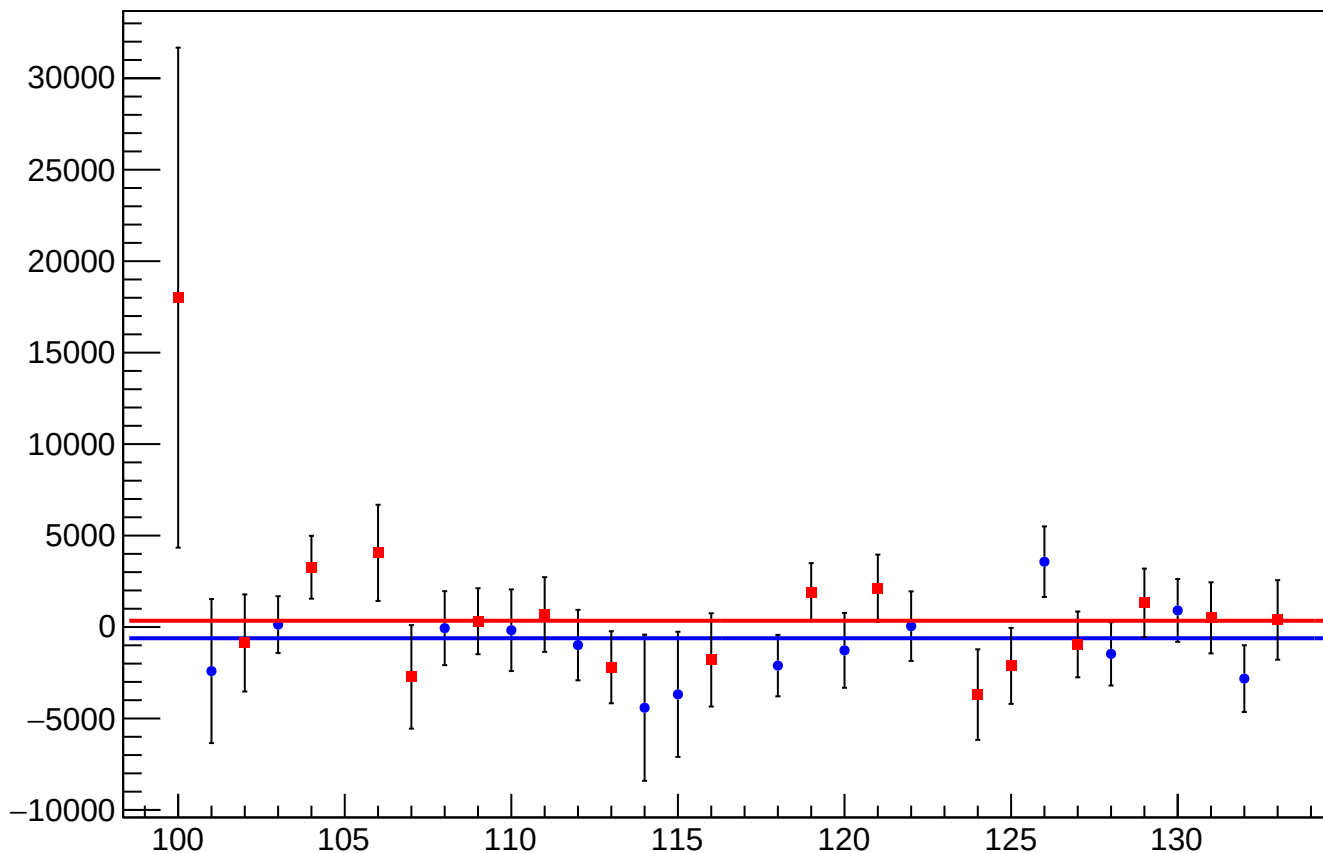
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 535.128+/-0.119  $\chi^2/\text{NDF}$ : 4284098.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -613.239+/-538.023  $\chi^2/\text{NDF}$ : 10.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 344.103+/-508.049  $\chi^2/\text{NDF}$ : 17.1/16

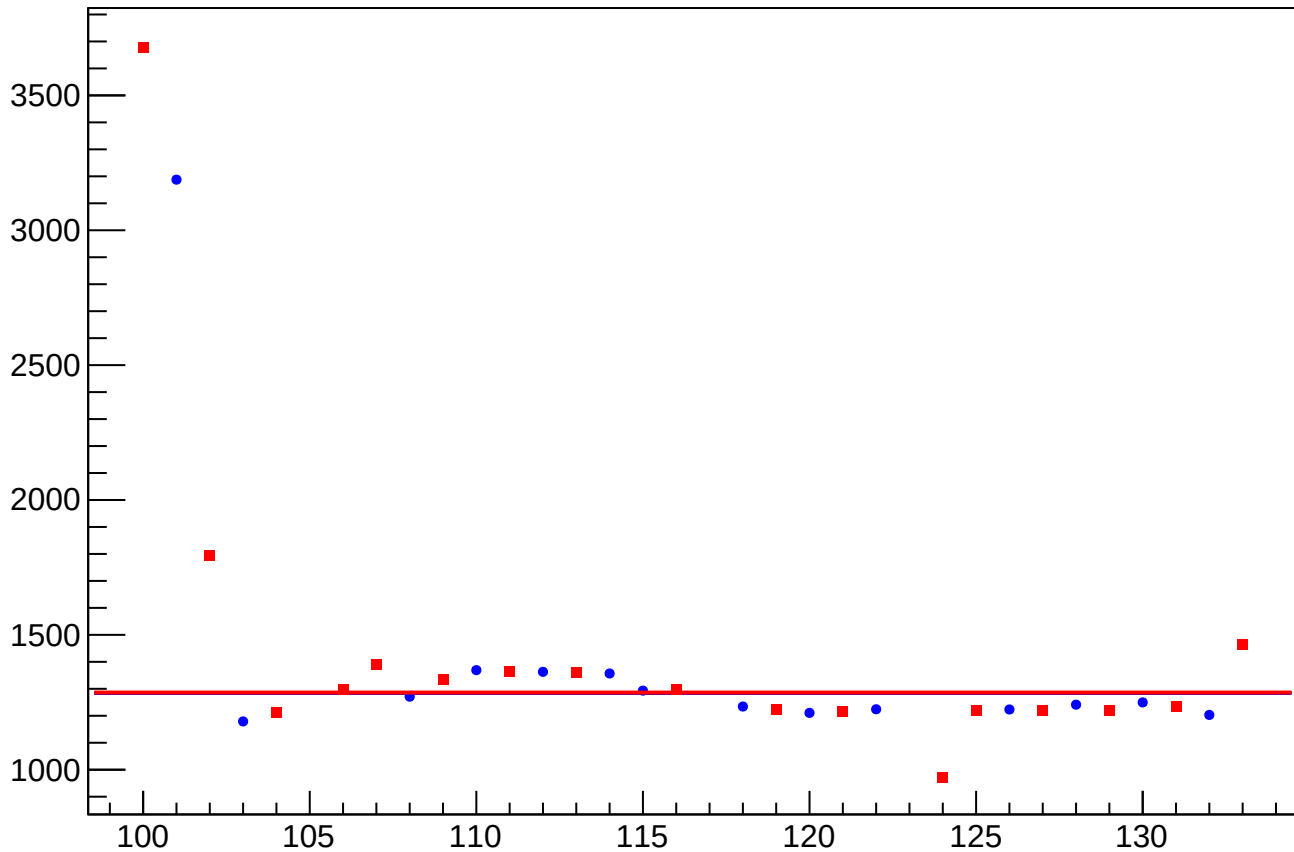
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -107.159+/-369.387  $\chi^2/\text{NDF}$ : 29.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1284.479+/-0.380  $\chi^2/\text{NDF}$ : 498185.6/13

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

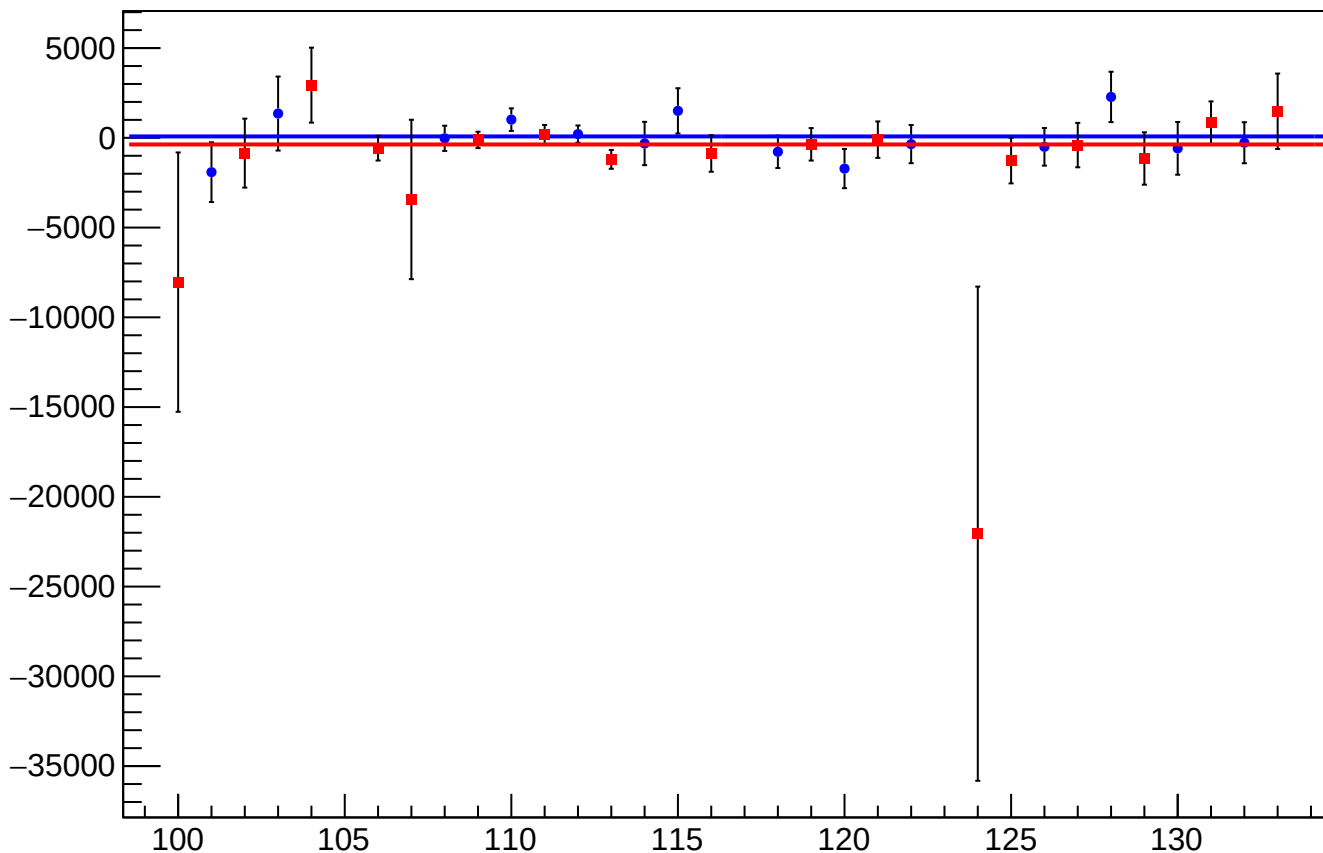
Right Out: 1286.078+/-0.359  $\chi^2/\text{NDF}$ : 208756.4/16

All: 1285.324+/-0.261  $\chi^2/\text{NDF}$ : 706951.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_correction\_mean vs Slug



Right In: 78.601 $\pm$ 246.871  $\chi^2$ /NDF: 12.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -369.222 $\pm$ 220.983  $\chi^2$ /NDF: 13.5/16

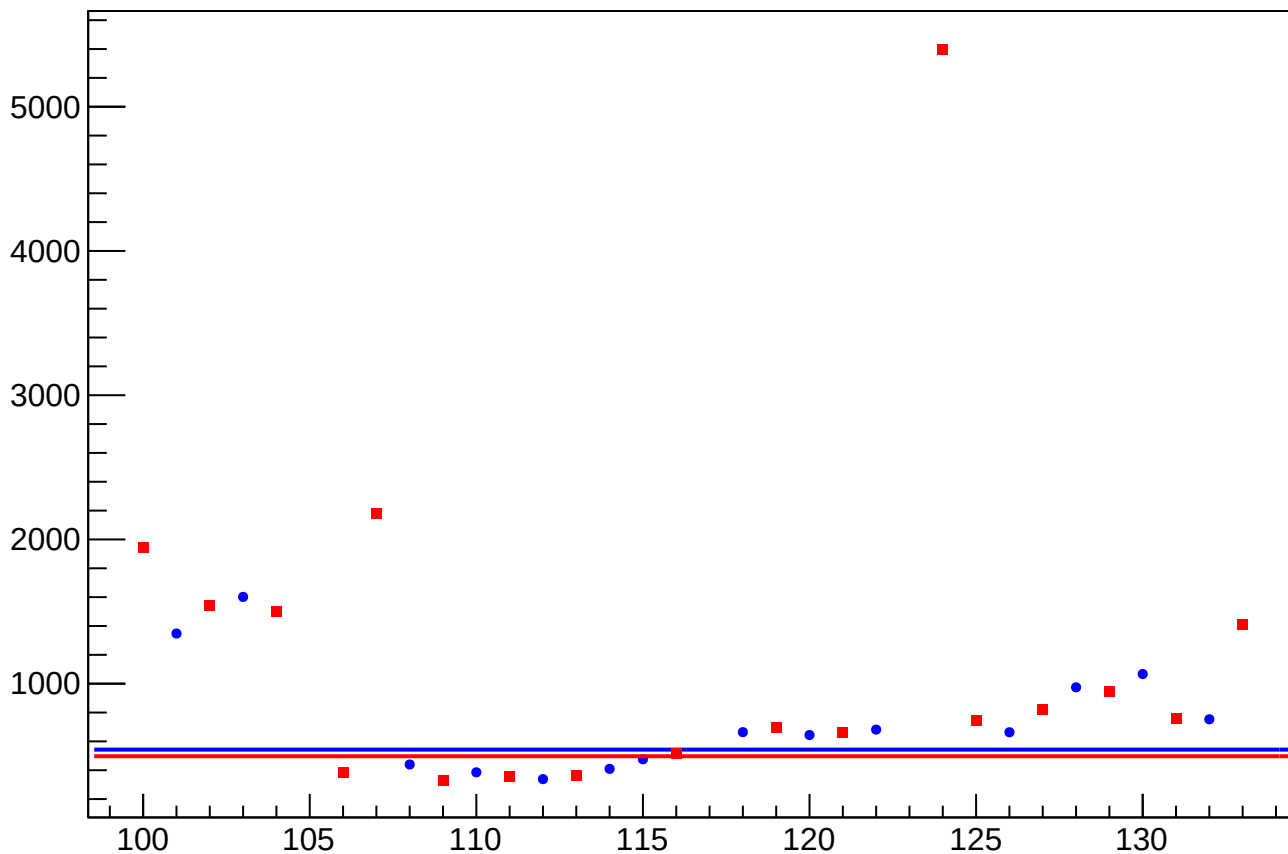
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -170.015 $\pm$ 164.653  $\chi^2$ /NDF: 27.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_correction\_rms vs Slug



Right In: 542.852+/-0.175  $\chi^2/\text{NDF}$ : 2182620.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 496.853+/-0.156  $\chi^2/\text{NDF}$ : 3304215.7/16

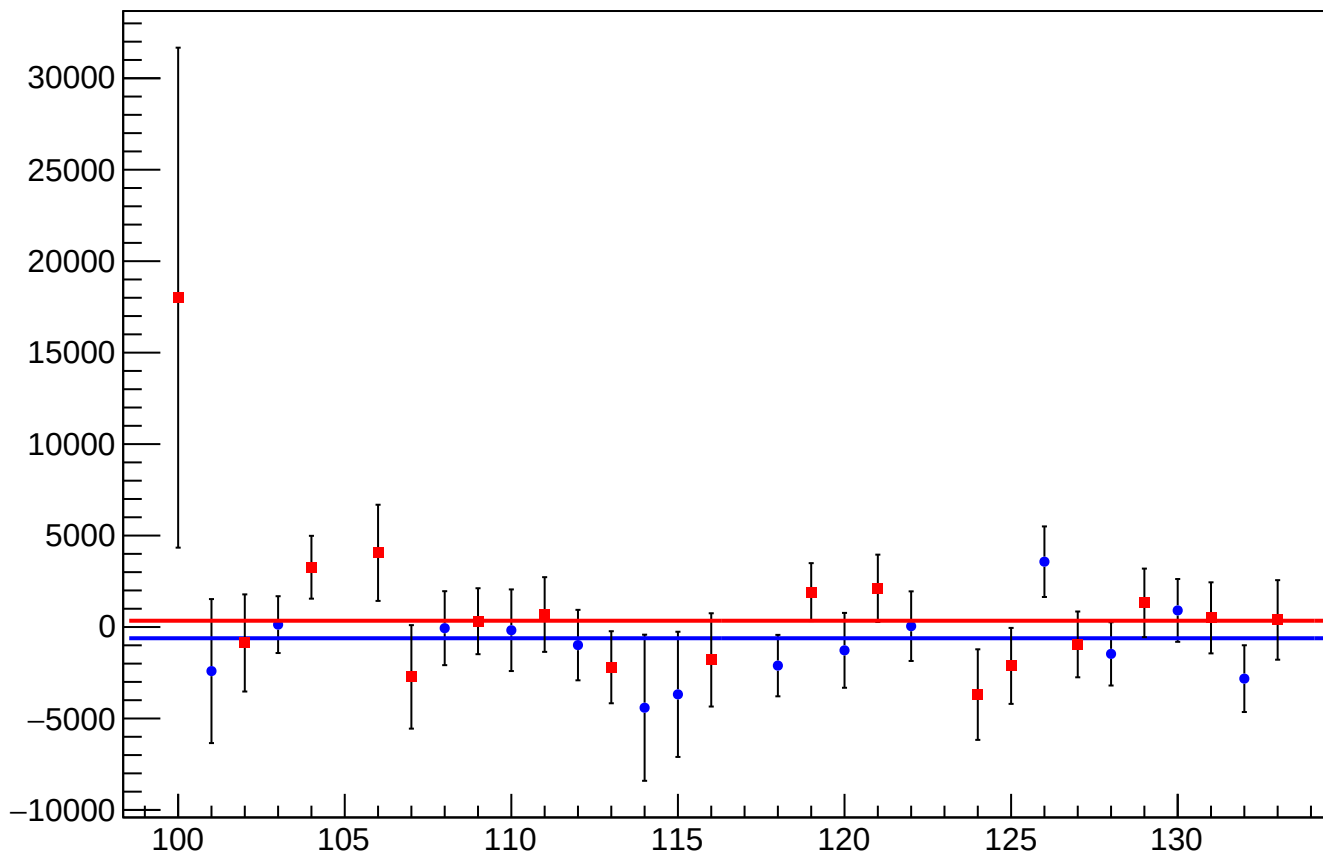
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 517.315+/-0.116  $\chi^2/\text{NDF}$ : 5525385.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -613.236+/-538.023  $\chi^2/\text{NDF}$ : 10.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 344.103+/-508.049  $\chi^2/\text{NDF}$ : 17.1/16

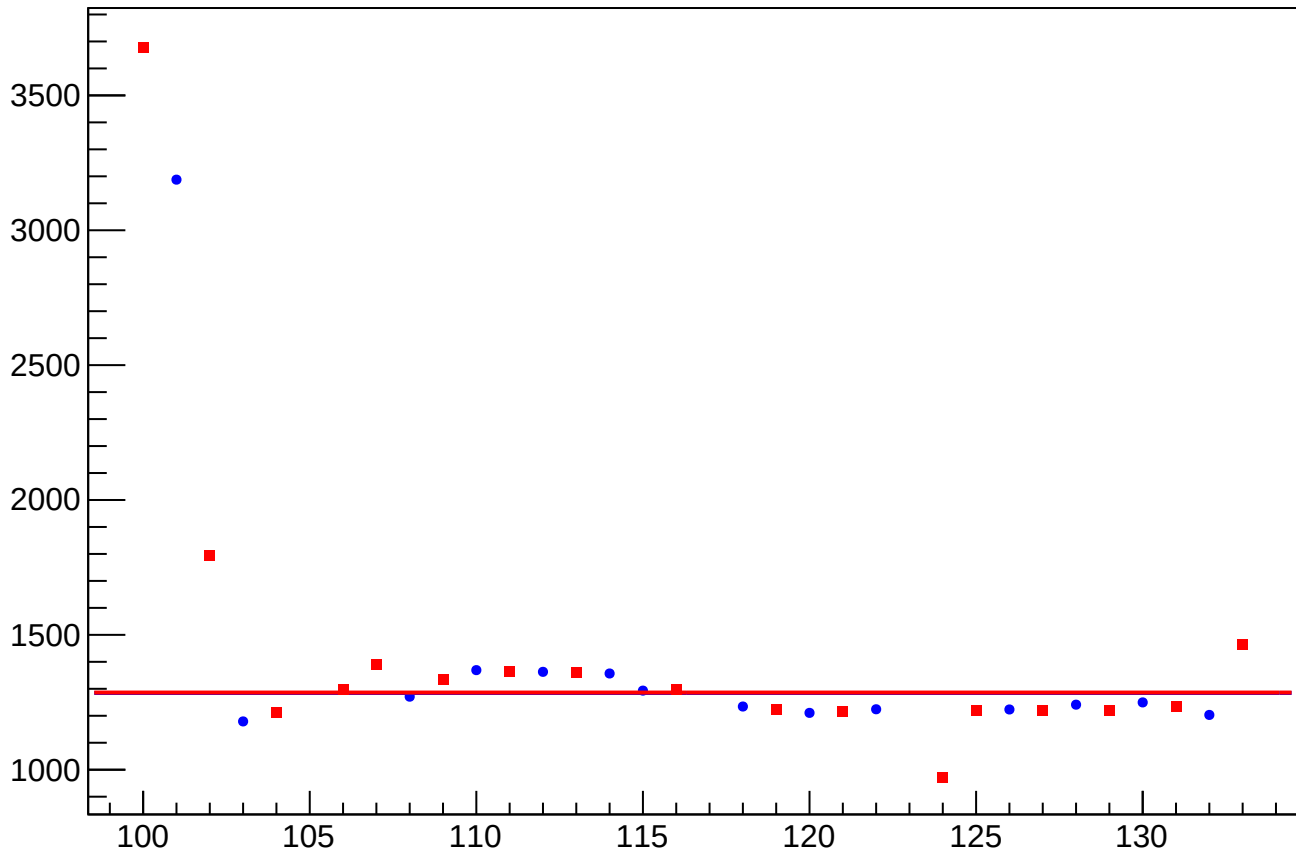
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -107.158+/-369.387  $\chi^2/\text{NDF}$ : 29.3/30

- 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: 1284.479+/-0.380  $\chi^2/\text{NDF}$ : 498185.5/13

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

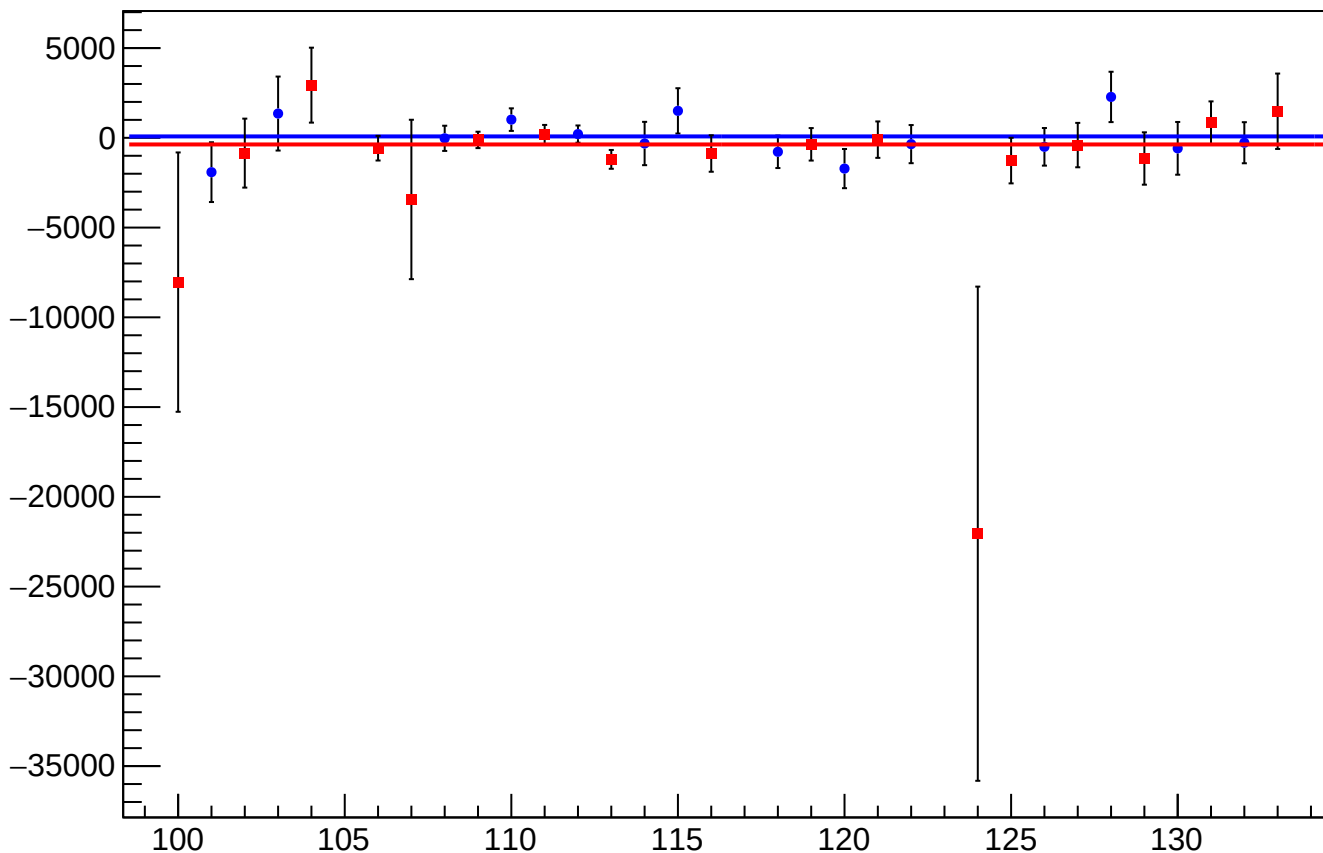
Right Out: 1286.078+/-0.359  $\chi^2/\text{NDF}$ : 208756.7/16

All: 1285.324+/-0.261  $\chi^2/\text{NDF}$ : 706951.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 78.600 $\pm$ 246.870  $\chi^2$ /NDF: 12.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -369.221 $\pm$ 220.983  $\chi^2$ /NDF: 13.5/16

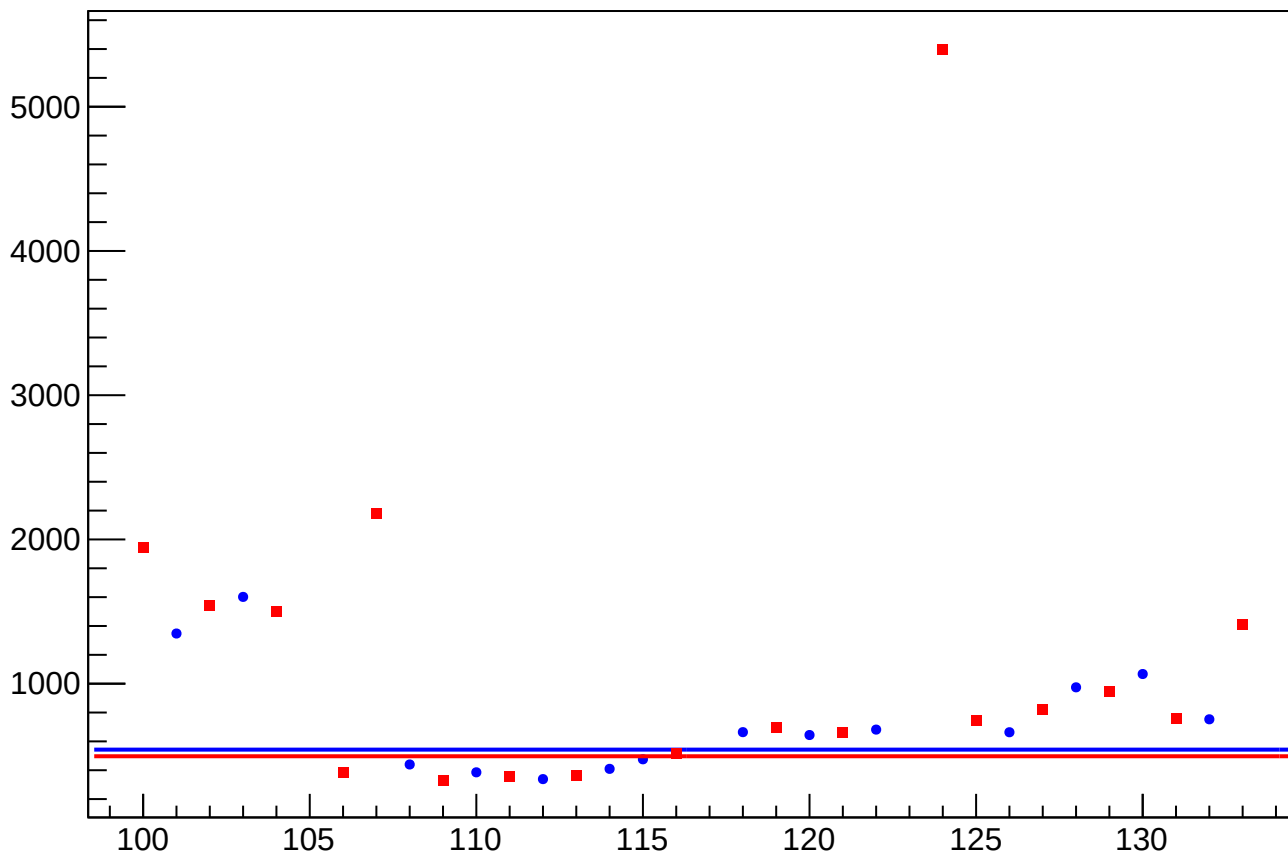
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -170.014 $\pm$ 164.653  $\chi^2$ /NDF: 27.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 542.849+/-0.175  $\chi^2/\text{NDF}$ : 2182624.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 496.851+/-0.156  $\chi^2/\text{NDF}$ : 3304223.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

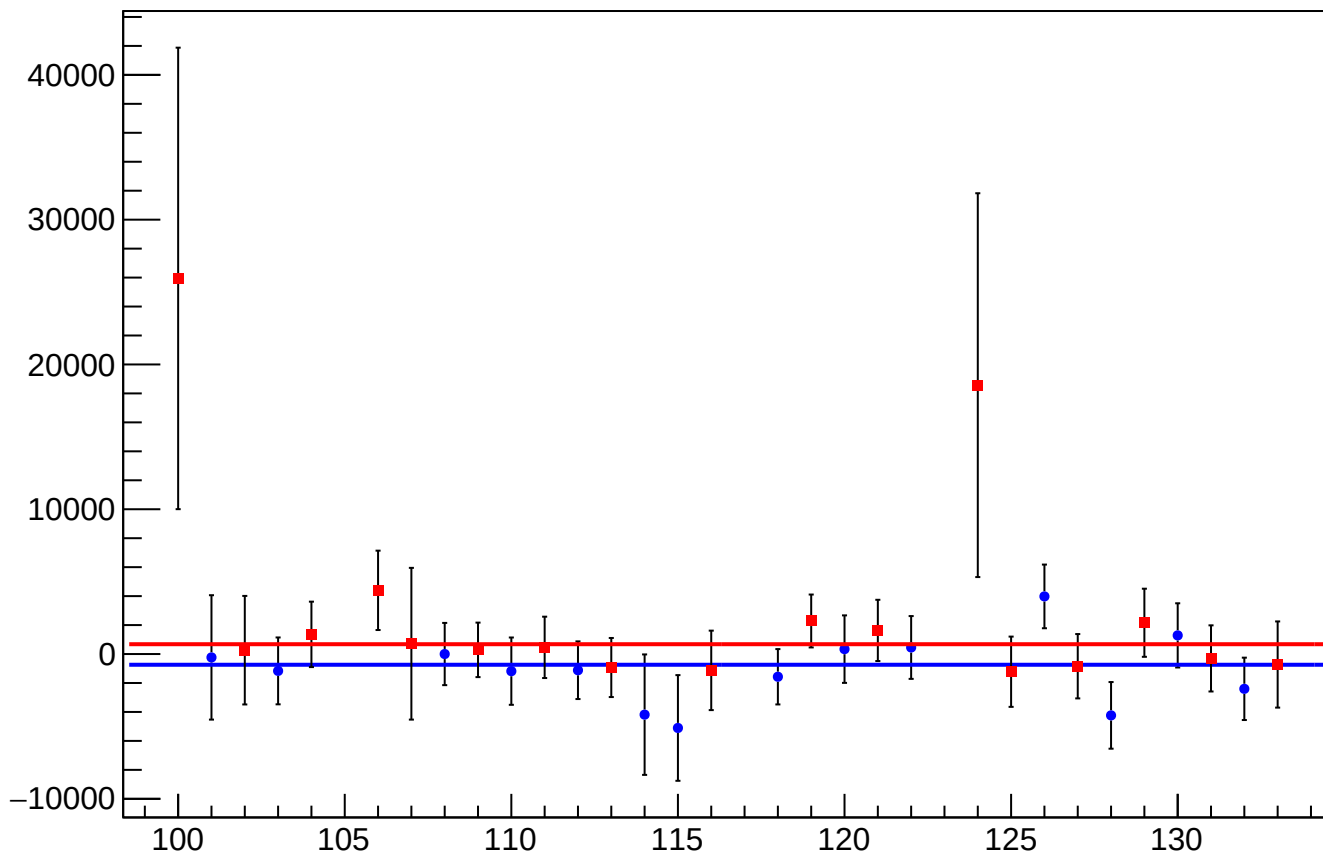
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 517.313+/-0.116  $\chi^2/\text{NDF}$ : 5525395.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug



Right In: -740.479+/-630.764  $\chi^2/\text{NDF}$ : 11.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 678.558+/-607.974  $\chi^2/\text{NDF}$ : 10.2/16

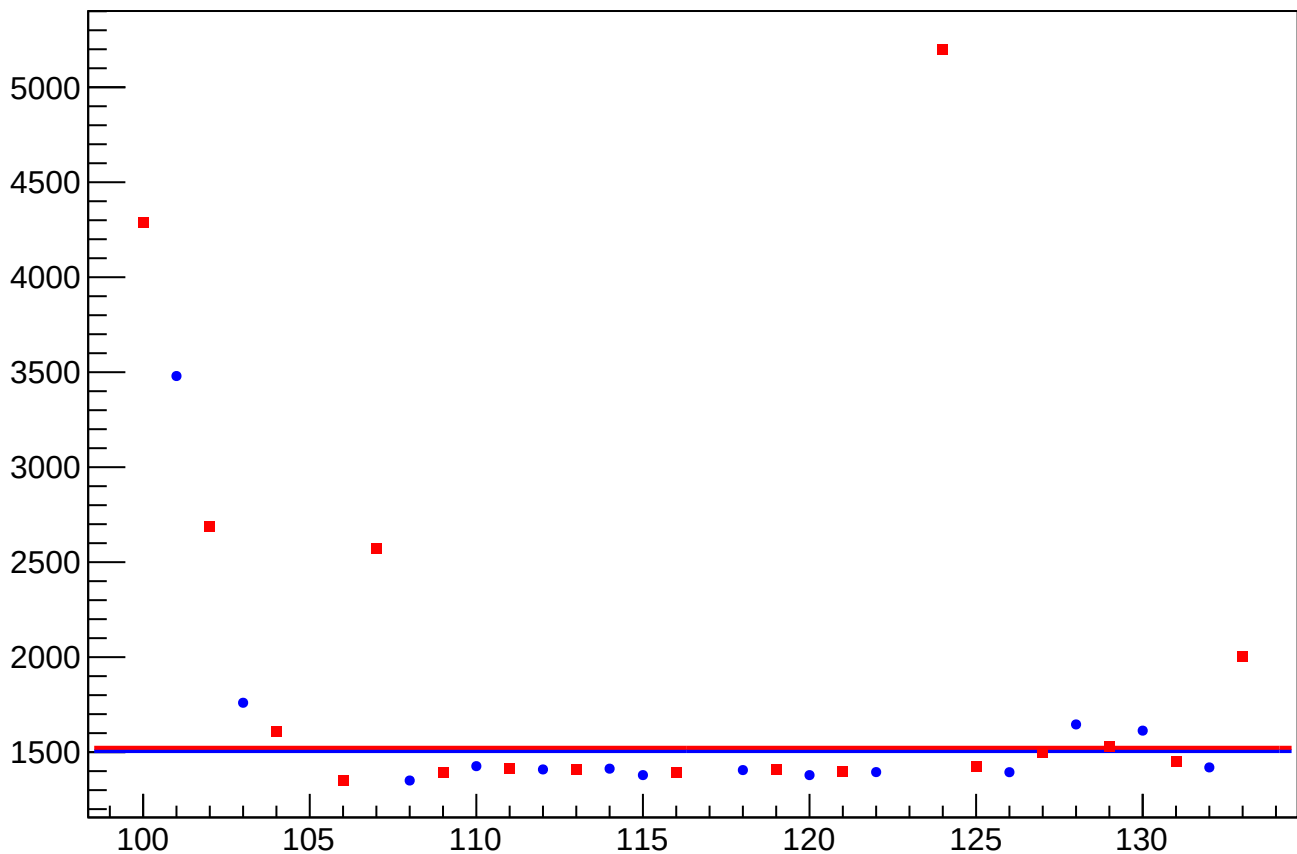
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.862+/-437.738  $\chi^2/\text{NDF}$ : 24.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug



Right In: 1505.567+/-0.446  $\chi^2/\text{NDF}$ : 504605.4/13

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

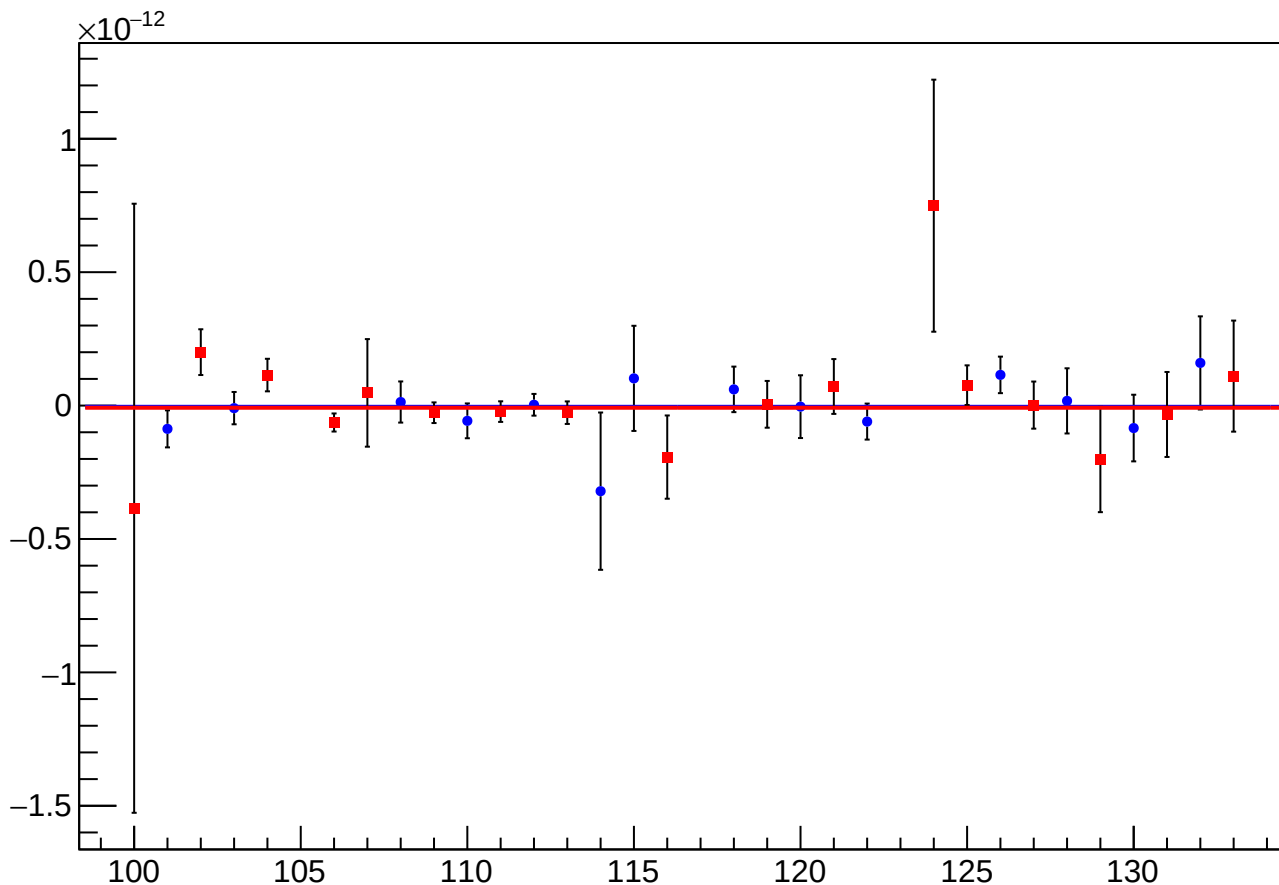
Right Out: 1523.038+/-0.430  $\chi^2/\text{NDF}$ : 594813.3/16

All: 1514.624+/-0.310  $\chi^2/\text{NDF}$ : 1100214.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 20.6/16

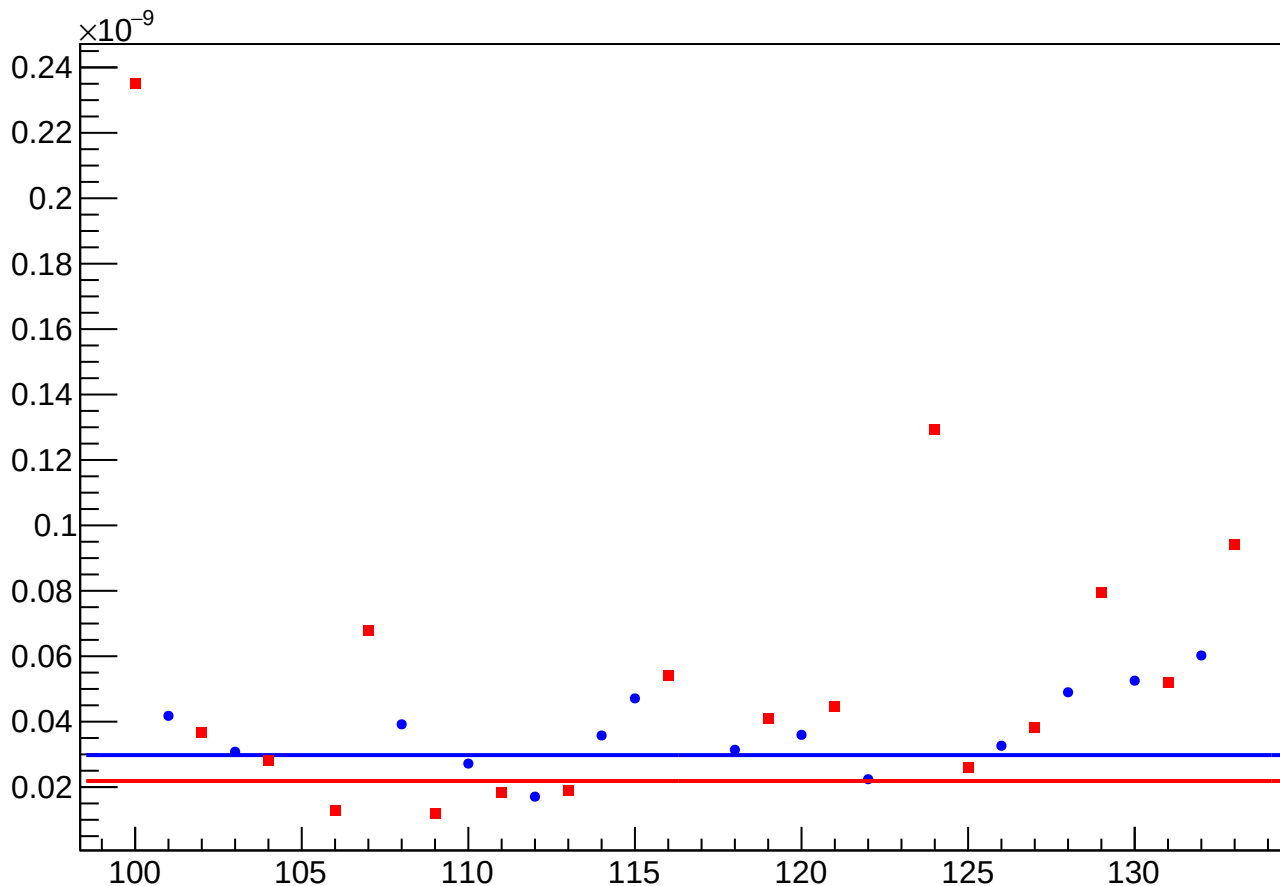
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 29.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 514795.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1500598.7/16

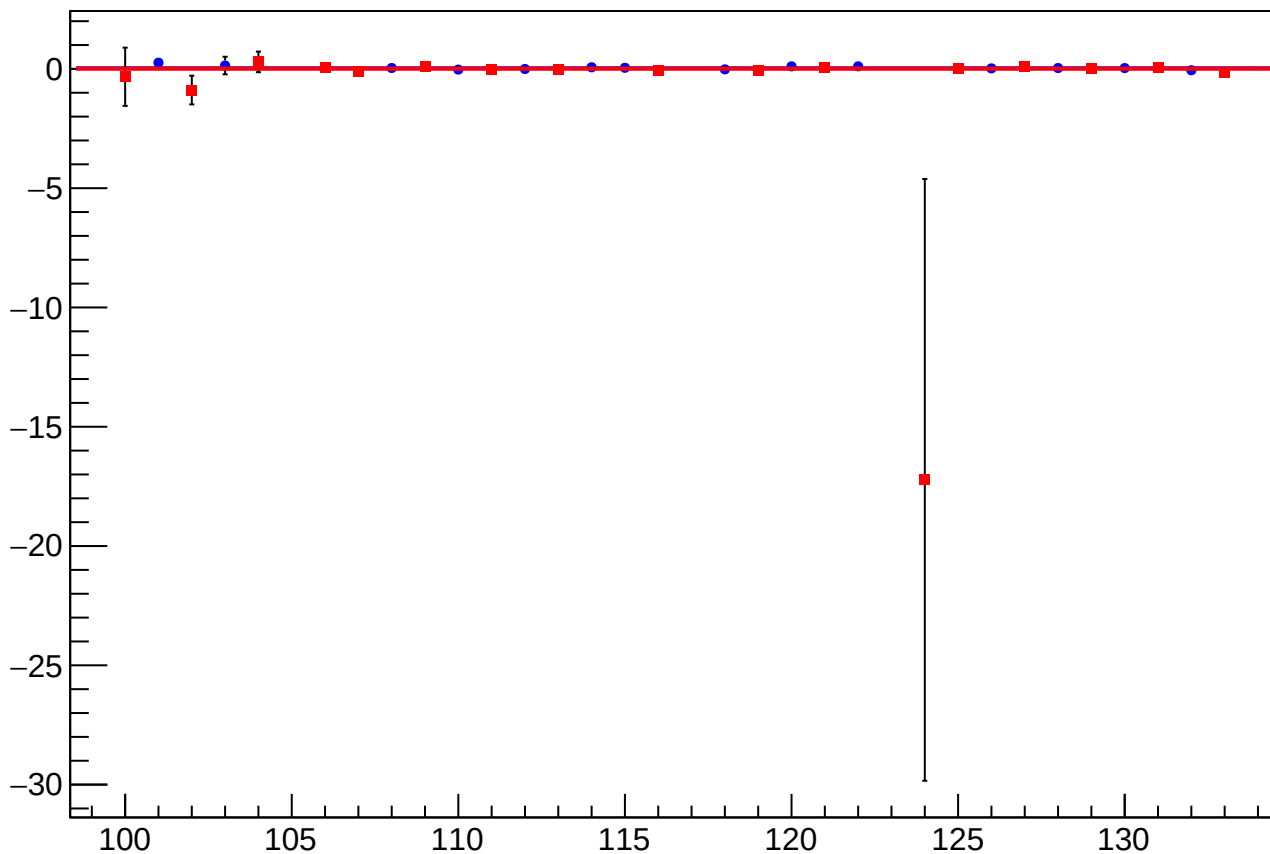
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2197431.5/30

- 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: 0.026 $\pm$ 0.018  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.010 $\pm$ 0.018  $\chi^2$ /NDF: 15.8/16

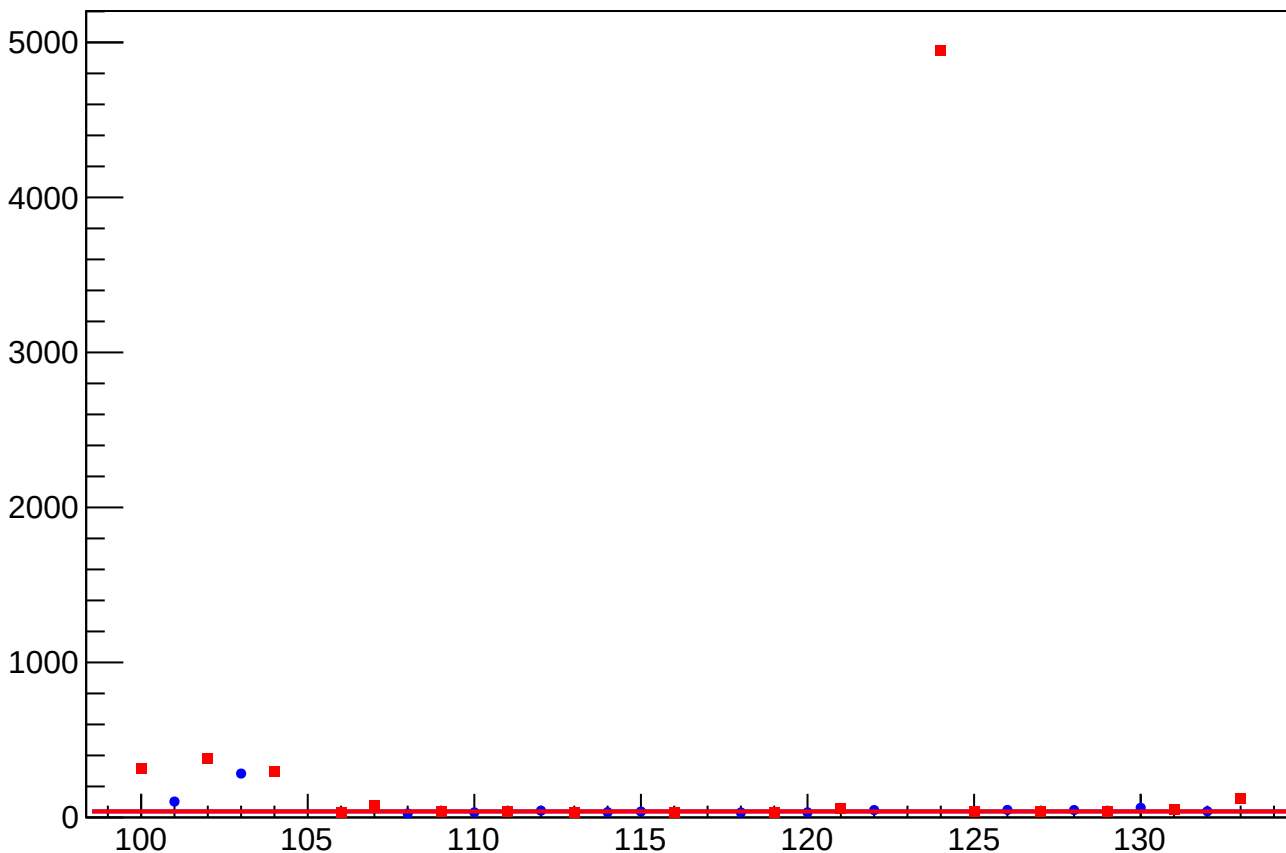
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.013  $\chi^2$ /NDF: 26.2/30

- 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: 38.834+/-0.013  $\chi^2/\text{NDF}$ : 1826088.2/13

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

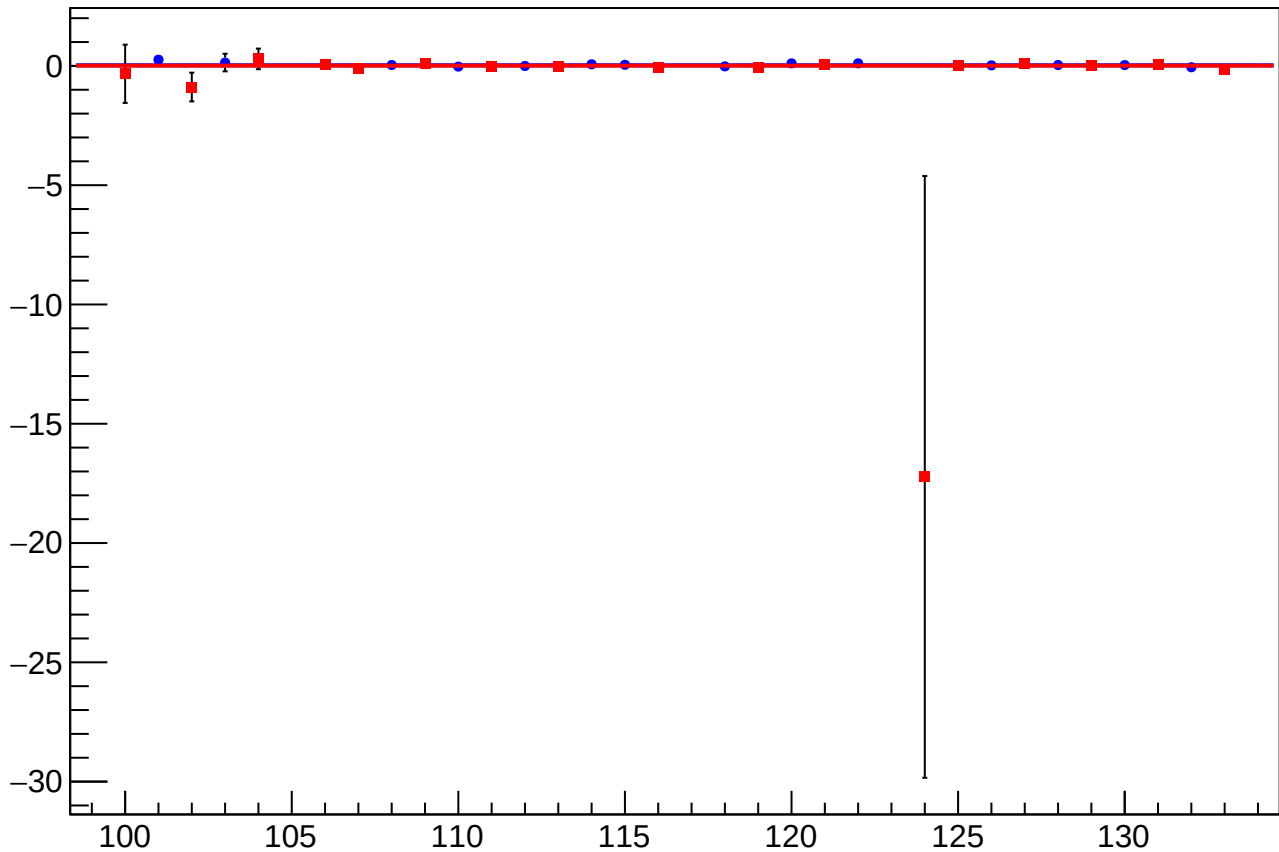
Right Out: 38.919+/-0.013  $\chi^2/\text{NDF}$ : 2491876.4/16

All: 38.877+/-0.009  $\chi^2/\text{NDF}$ : 4317986.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.026 $\pm$ 0.018  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.010 $\pm$ 0.018  $\chi^2$ /NDF: 15.8/16

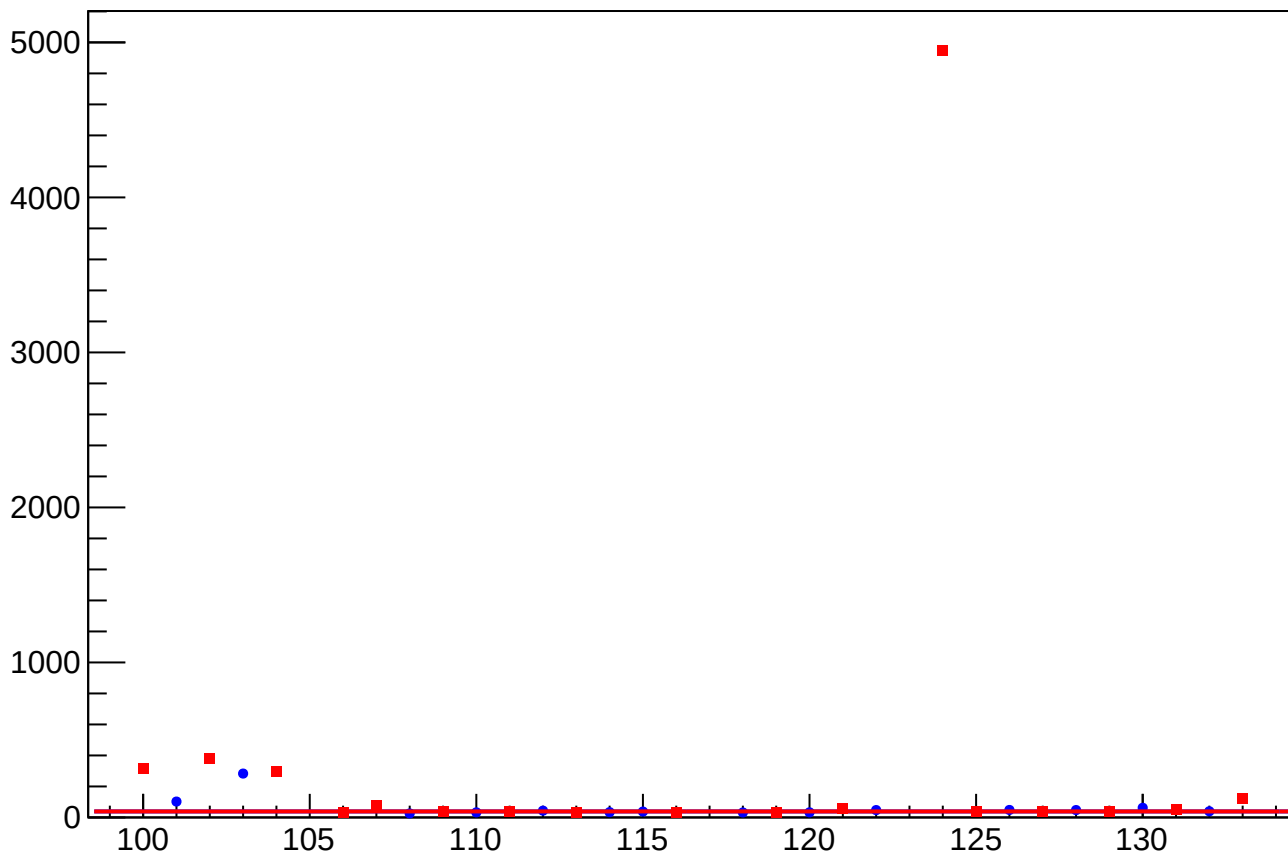
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.013  $\chi^2$ /NDF: 26.2/30

- 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: 38.834+/-0.013  $\chi^2/\text{NDF}$ : 1826088.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38.919+/-0.013  $\chi^2/\text{NDF}$ : 2491876.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

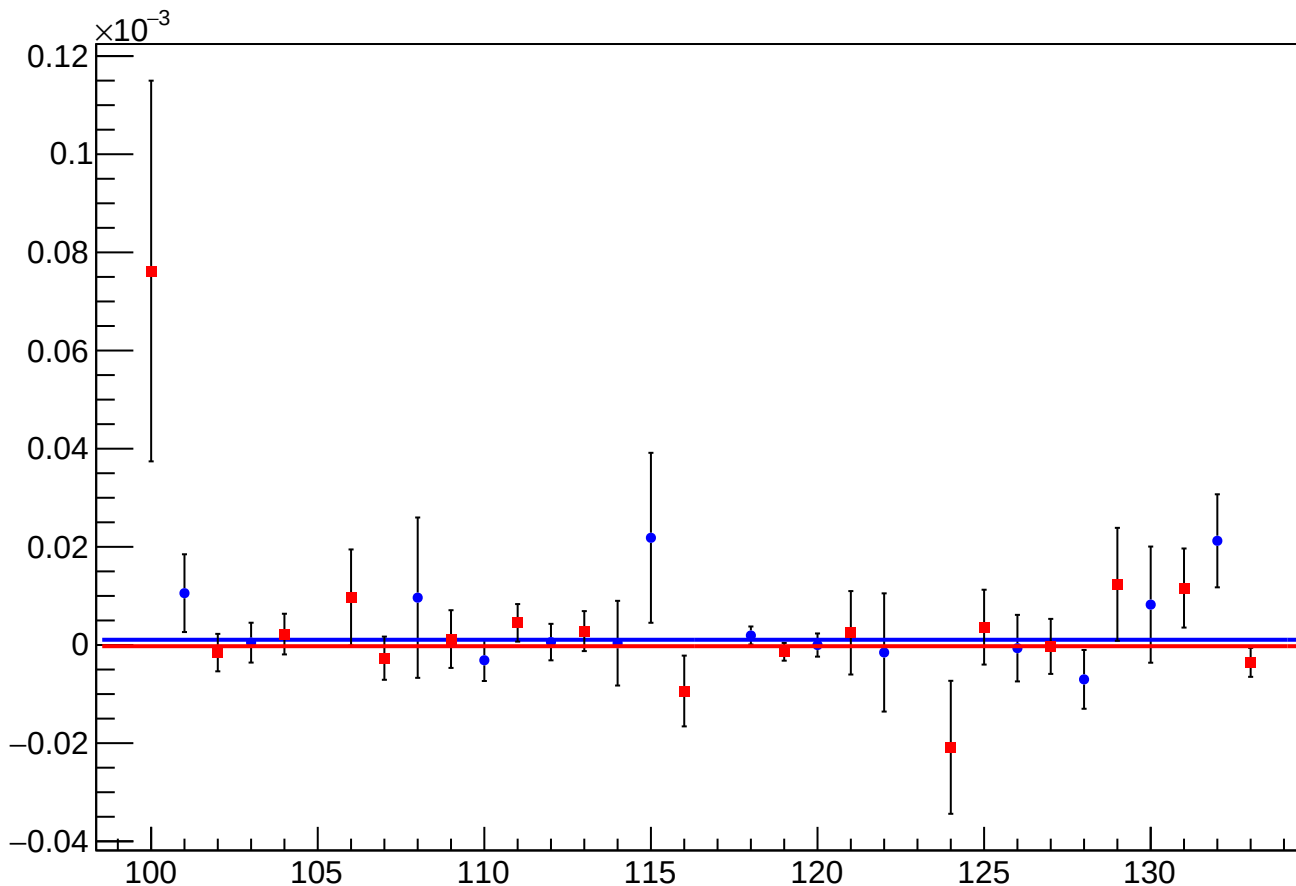
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.877+/-0.009  $\chi^2/\text{NDF}$ : 4317986.4/30

- 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: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.2/16

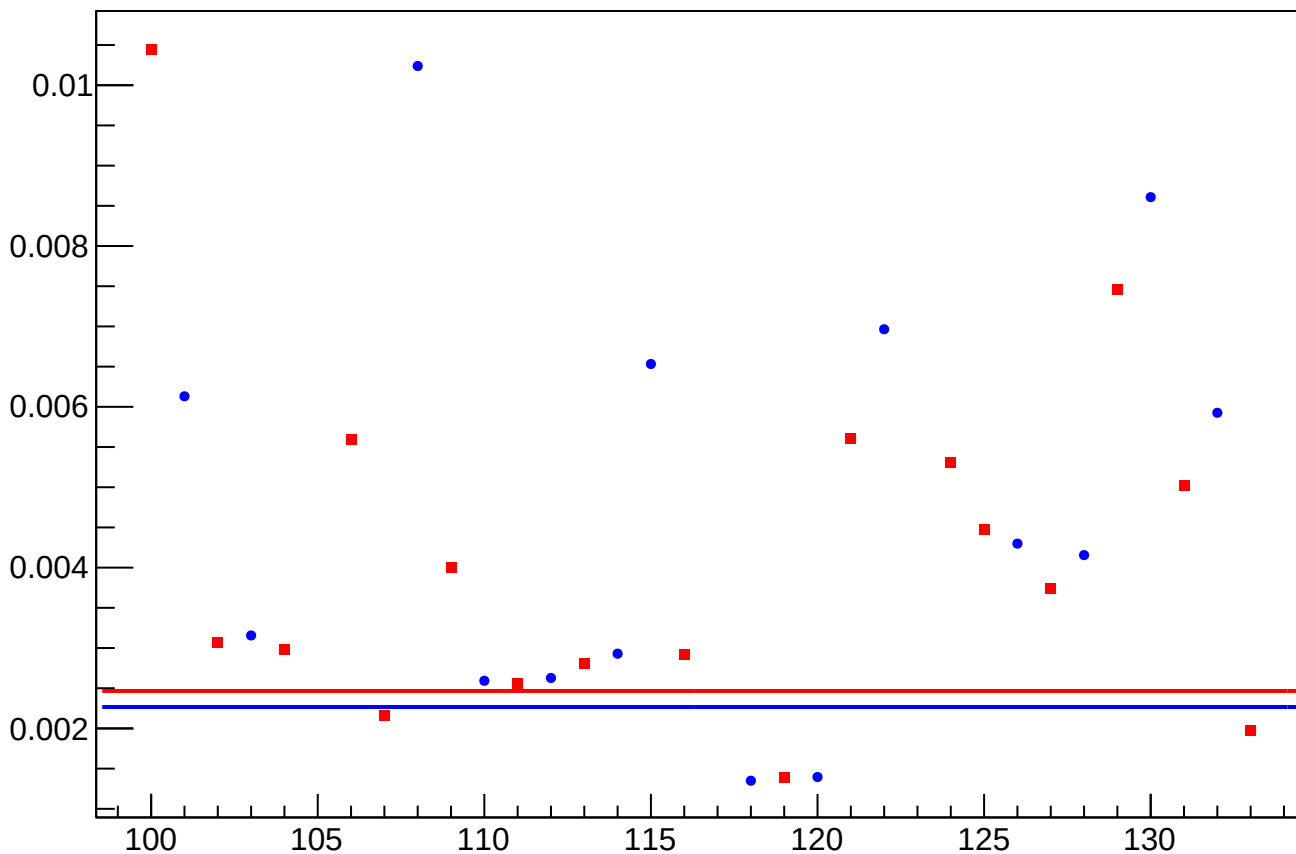
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 29.3/30

- 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  $\chi^2/\text{NDF}$ : 3537923.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2481197.0/16

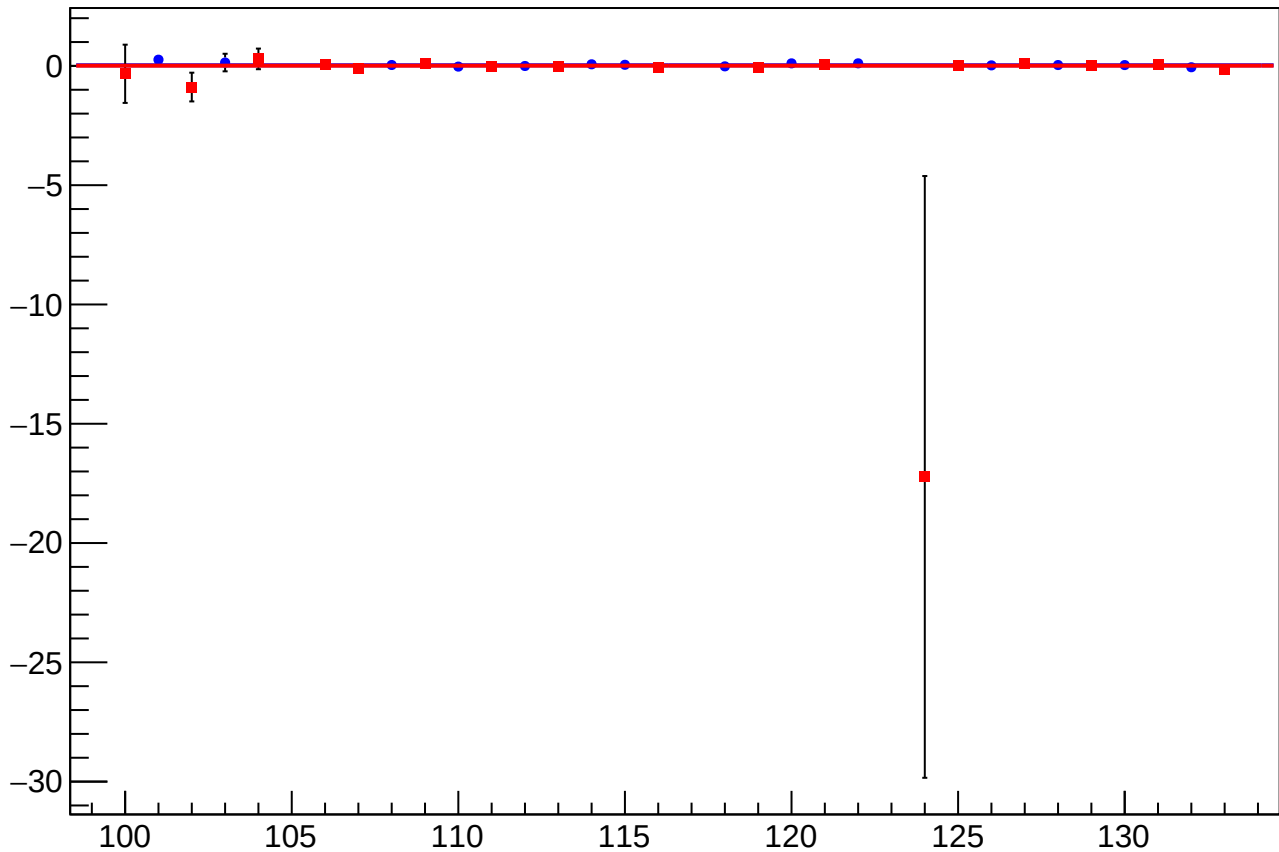
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 6051909.5/30

- 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: 0.026 $\pm$ 0.018  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.018  $\chi^2$ /NDF: 15.8/16

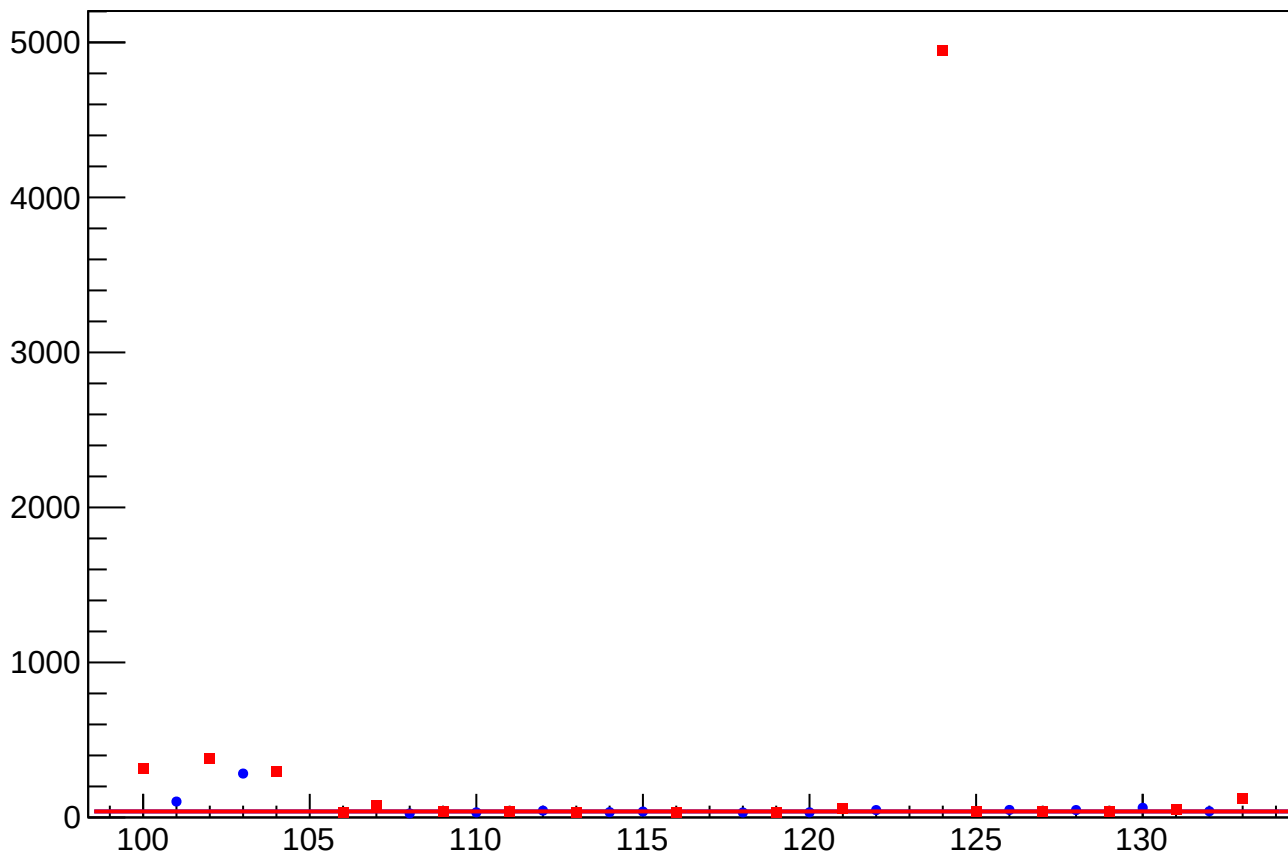
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.018 $\pm$ 0.013  $\chi^2$ /NDF: 26.2/30

- 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: 38.835+/-0.013  $\chi^2/\text{NDF}$ : 1825946.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38.919+/-0.013  $\chi^2/\text{NDF}$ : 2491874.5/16

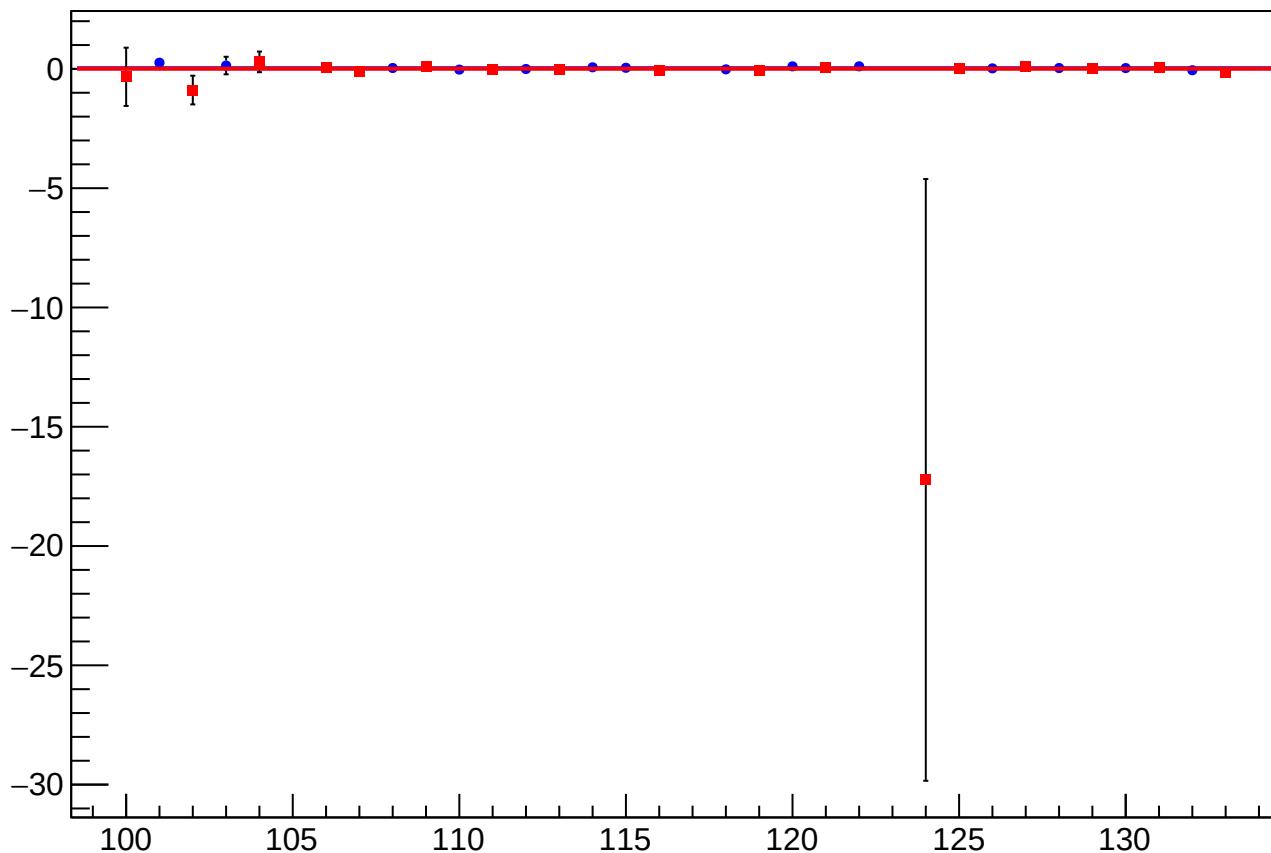
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.877+/-0.009  $\chi^2/\text{NDF}$ : 4317842.2/30

- 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: 0.026 $\pm$ 0.018  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.018  $\chi^2$ /NDF: 15.8/16

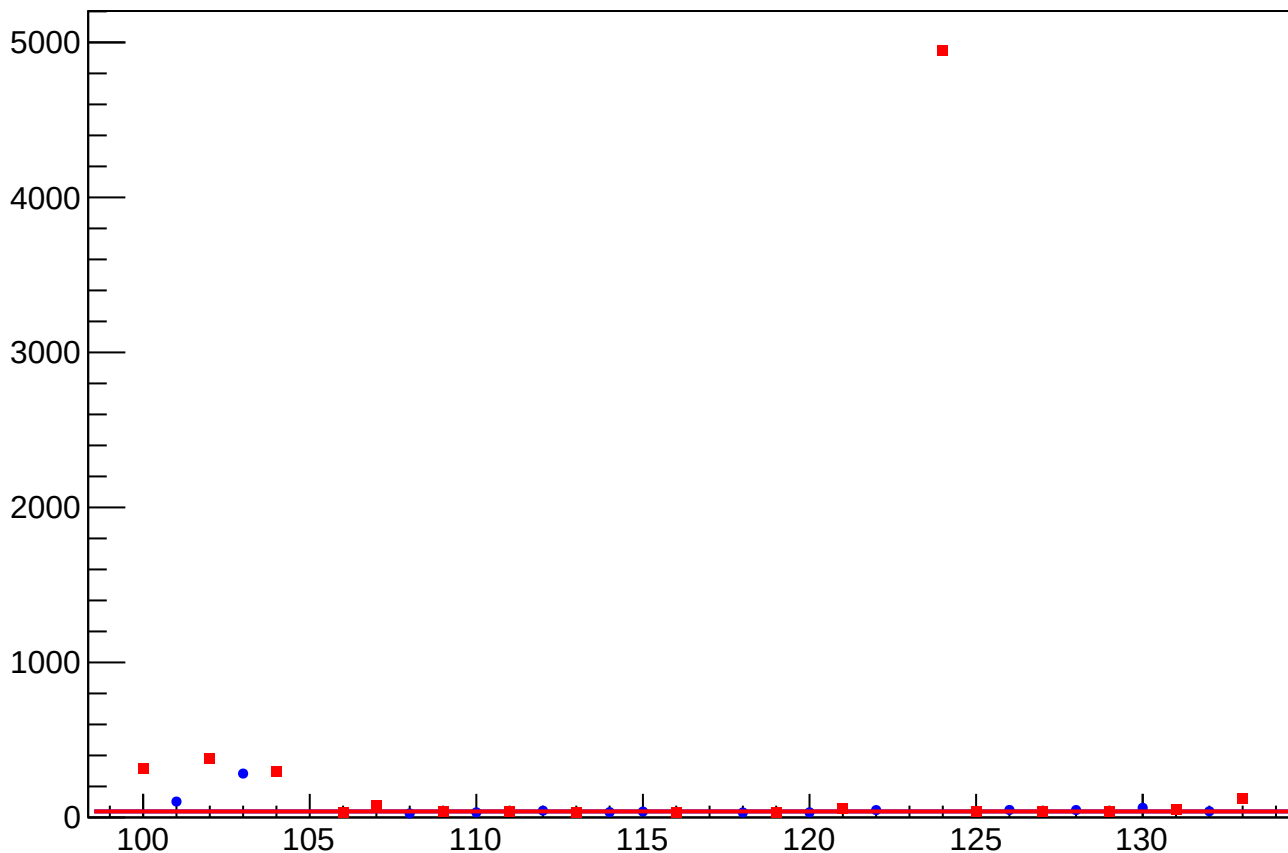
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

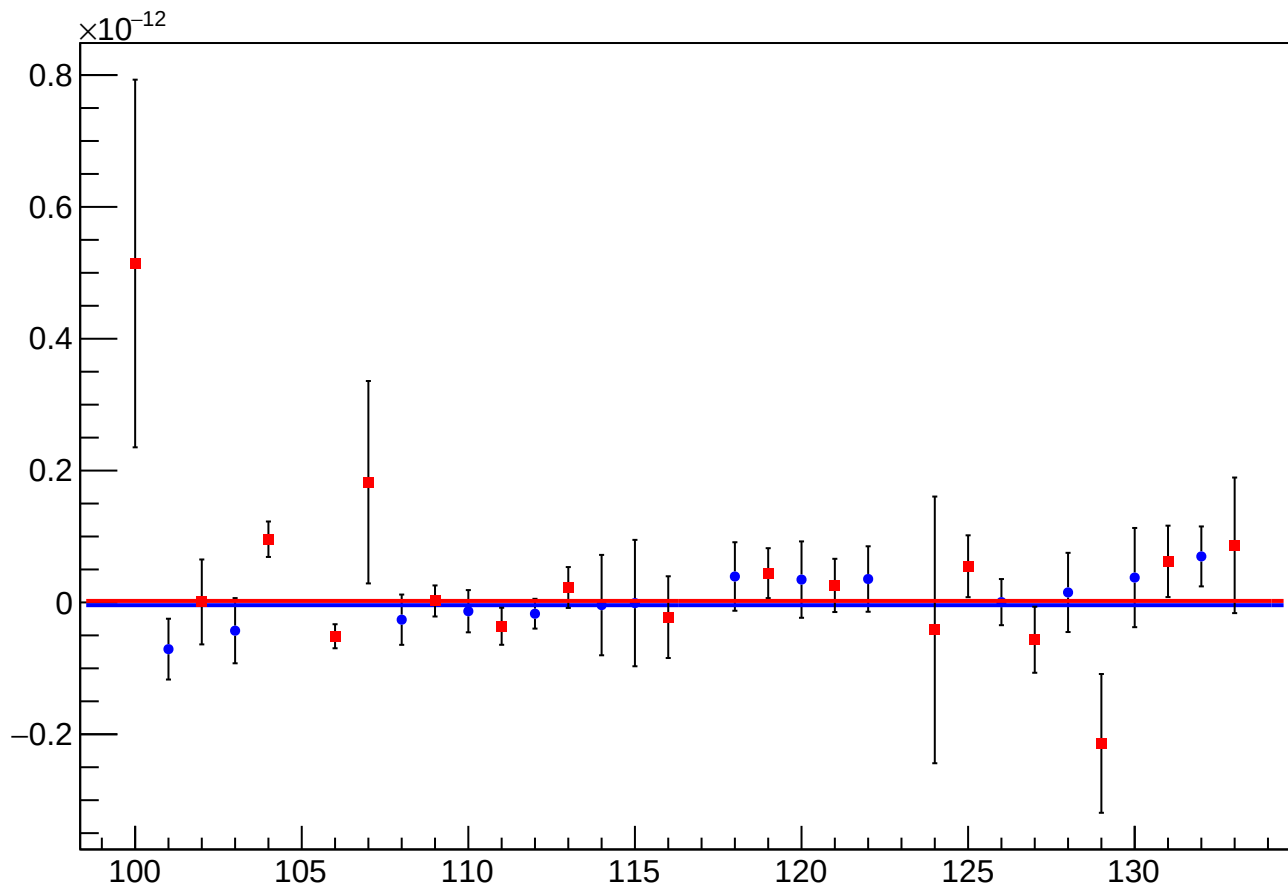
All: 0.018 $\pm$ 0.013  $\chi^2$ /NDF: 26.2/30

- 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



asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38.3/16

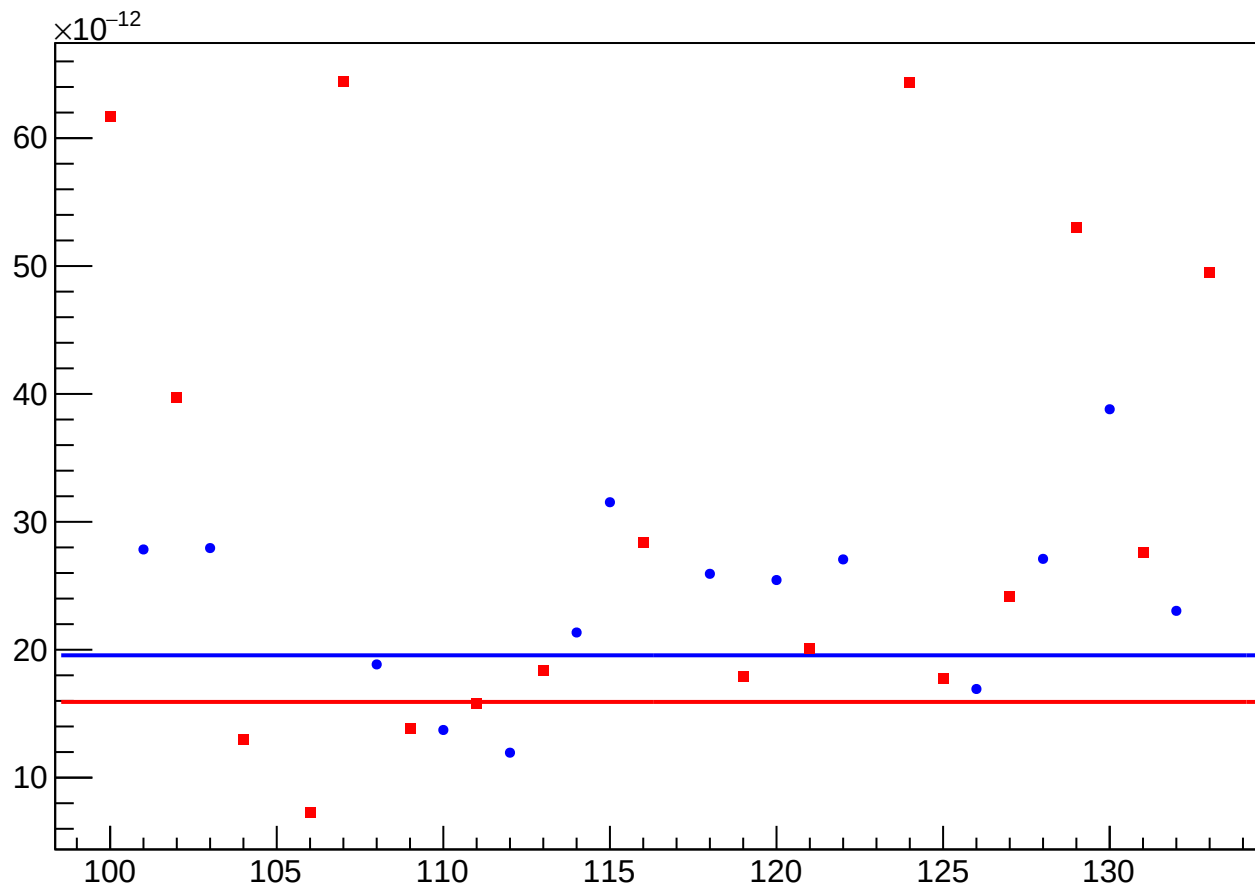
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 46.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 730175.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1865420.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

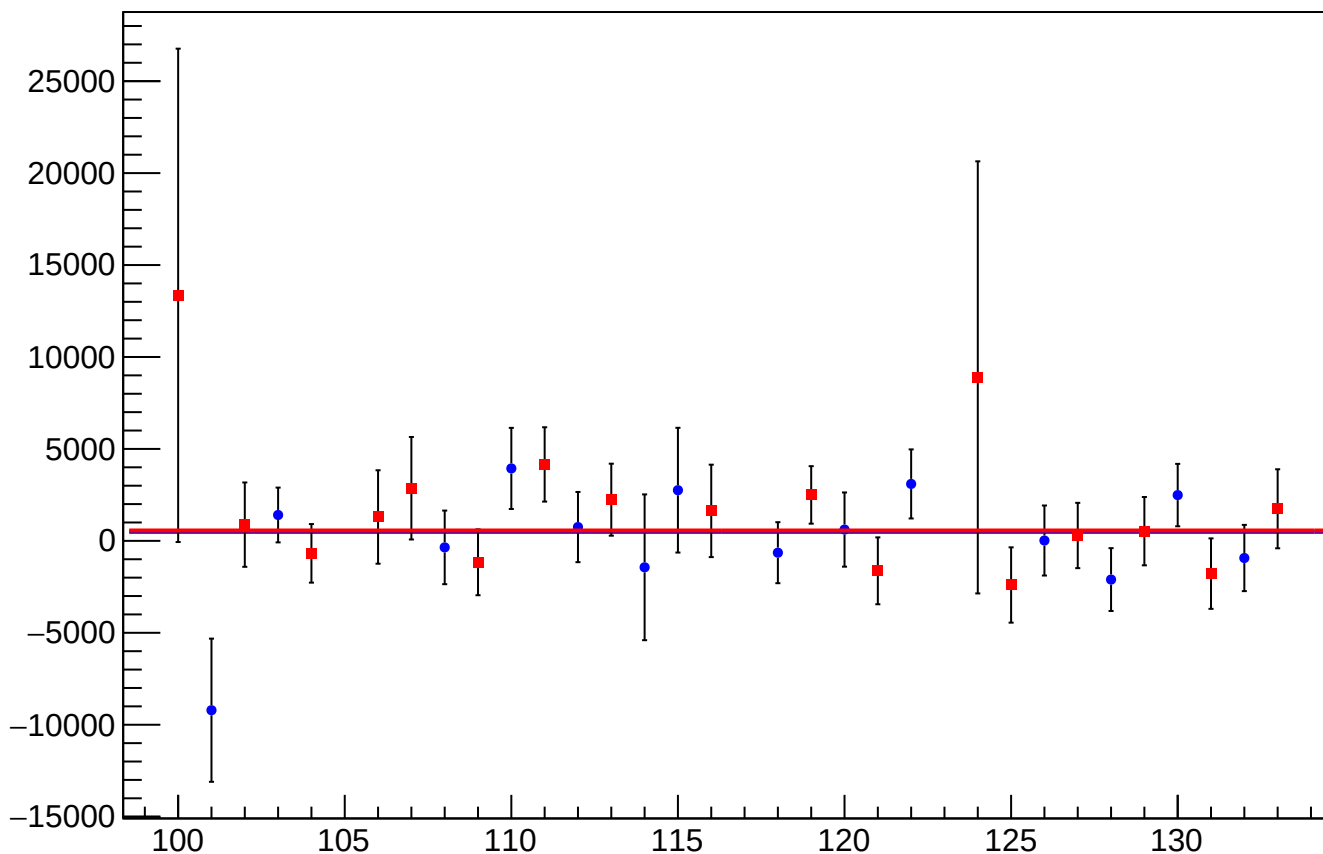
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2718378.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 493.453+/-529.749  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 564.036+/-506.210  $\chi^2/\text{NDF}$ : 14.7/16

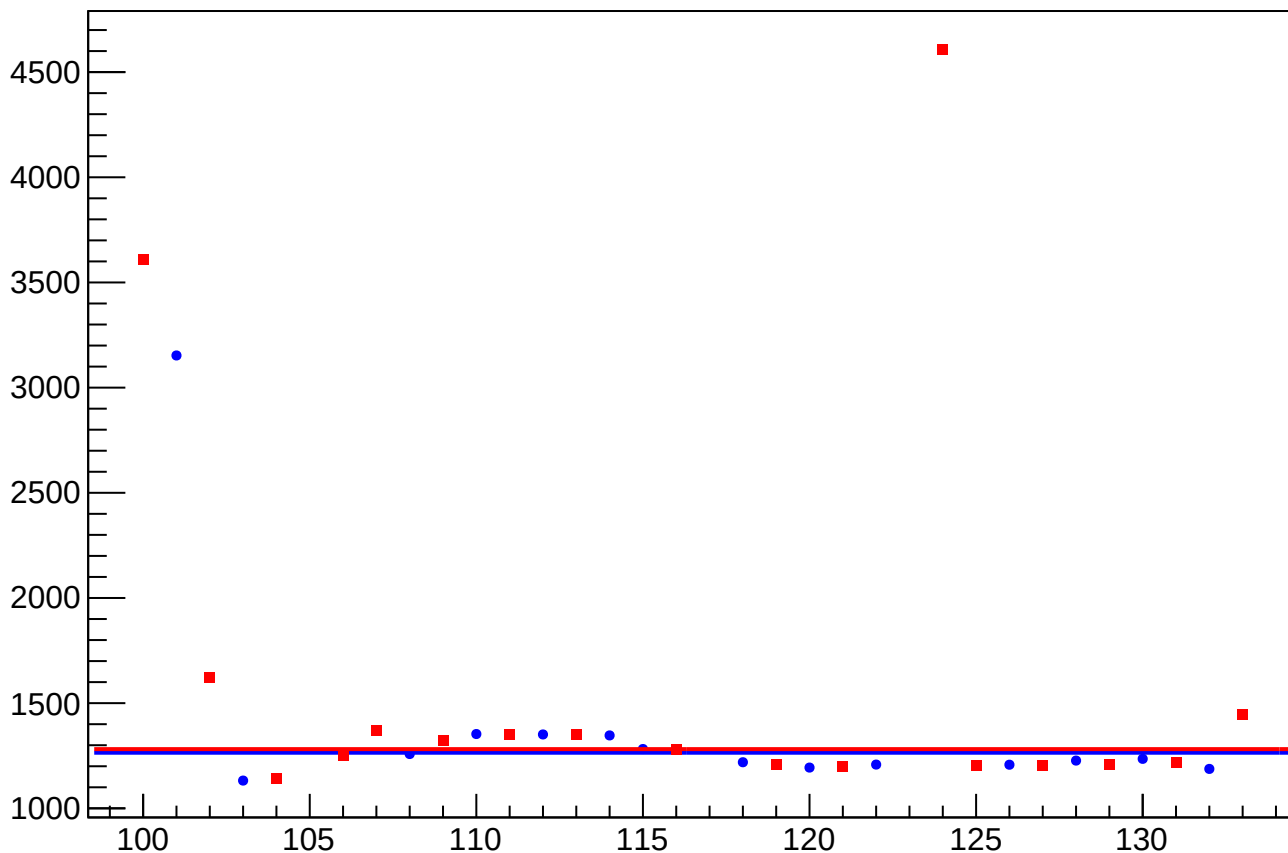
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 530.347+/-365.983  $\chi^2/\text{NDF}$ : 31.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 1264.376 $\pm$ 0.375  $\chi^2$ /NDF: 507494.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1281.473 $\pm$ 0.358  $\chi^2$ /NDF: 321826.6/16

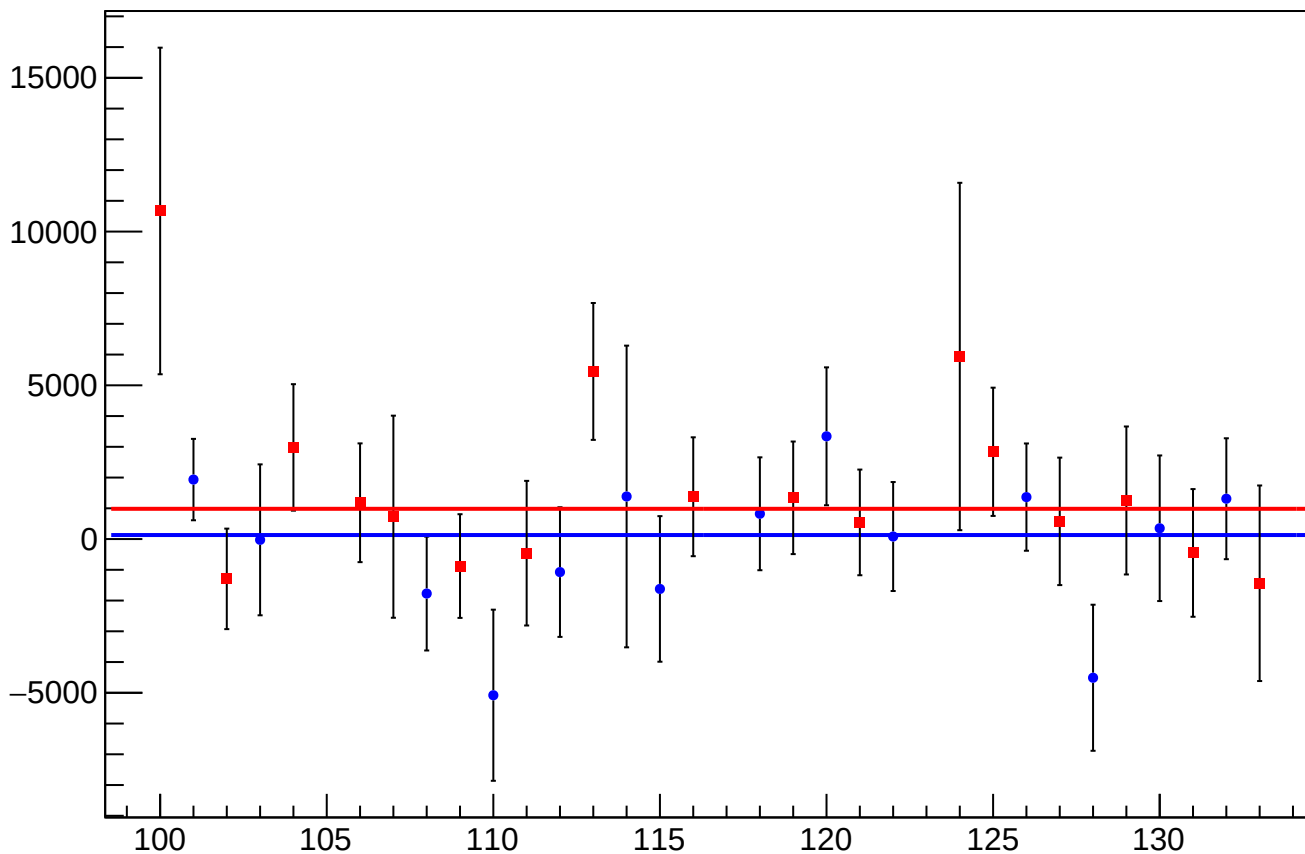
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1273.313 $\pm$ 0.259  $\chi^2$ /NDF: 830409.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_reg\_correction\_mean vs Slug



Right In: 130.622 $\pm$ 545.585  $\chi^2$ /NDF: 14.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 983.684 $\pm$ 523.898  $\chi^2$ /NDF: 14.7/16

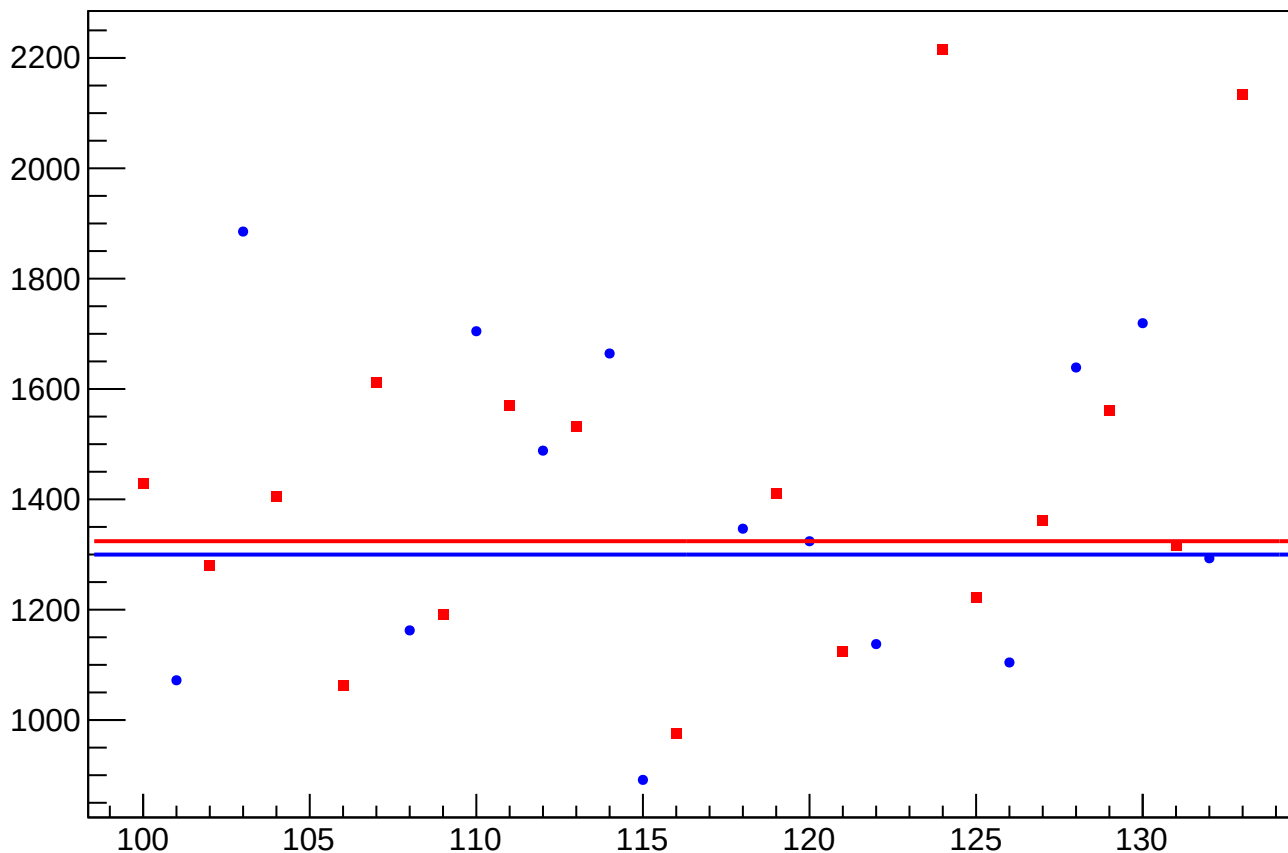
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 574.444 $\pm$ 377.886  $\chi^2$ /NDF: 30.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_reg\_correction\_rms vs Slug



Right In: 1299.877+/-0.386  $\chi^2/\text{NDF}$ : 459873.1/13

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

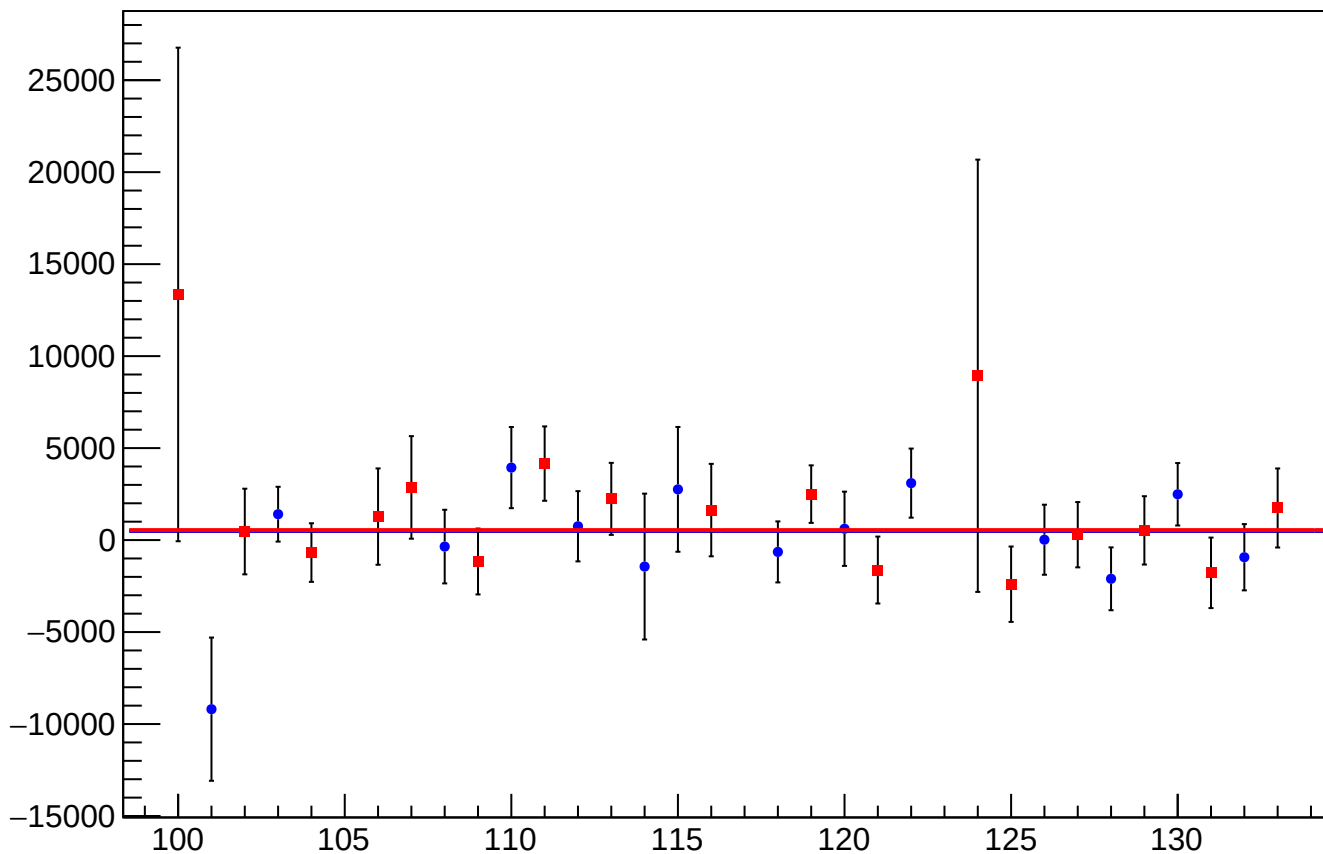
Right Out: 1324.151+/-0.370  $\chi^2/\text{NDF}$ : 409822.5/16

All: 1312.506+/-0.267  $\chi^2/\text{NDF}$ : 871755.3/30

- 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: 493.780+/-529.749  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 541.482+/-507.165  $\chi^2/\text{NDF}$ : 14.7/16

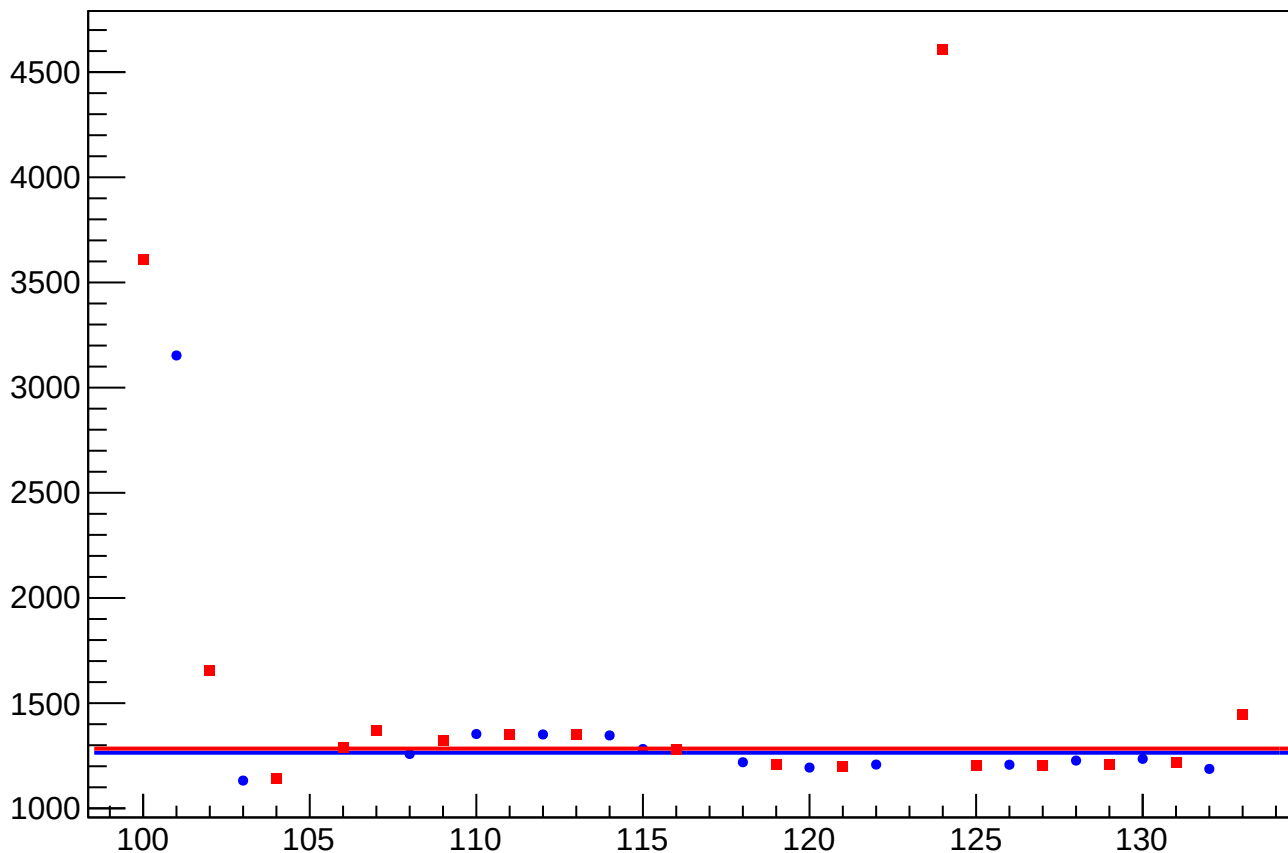
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 518.670+/-366.344  $\chi^2/\text{NDF}$ : 31.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 1264.375+/-0.375  $\chi^2/\text{NDF}$ : 507495.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1284.011+/-0.359  $\chi^2/\text{NDF}$ : 328513.3/16

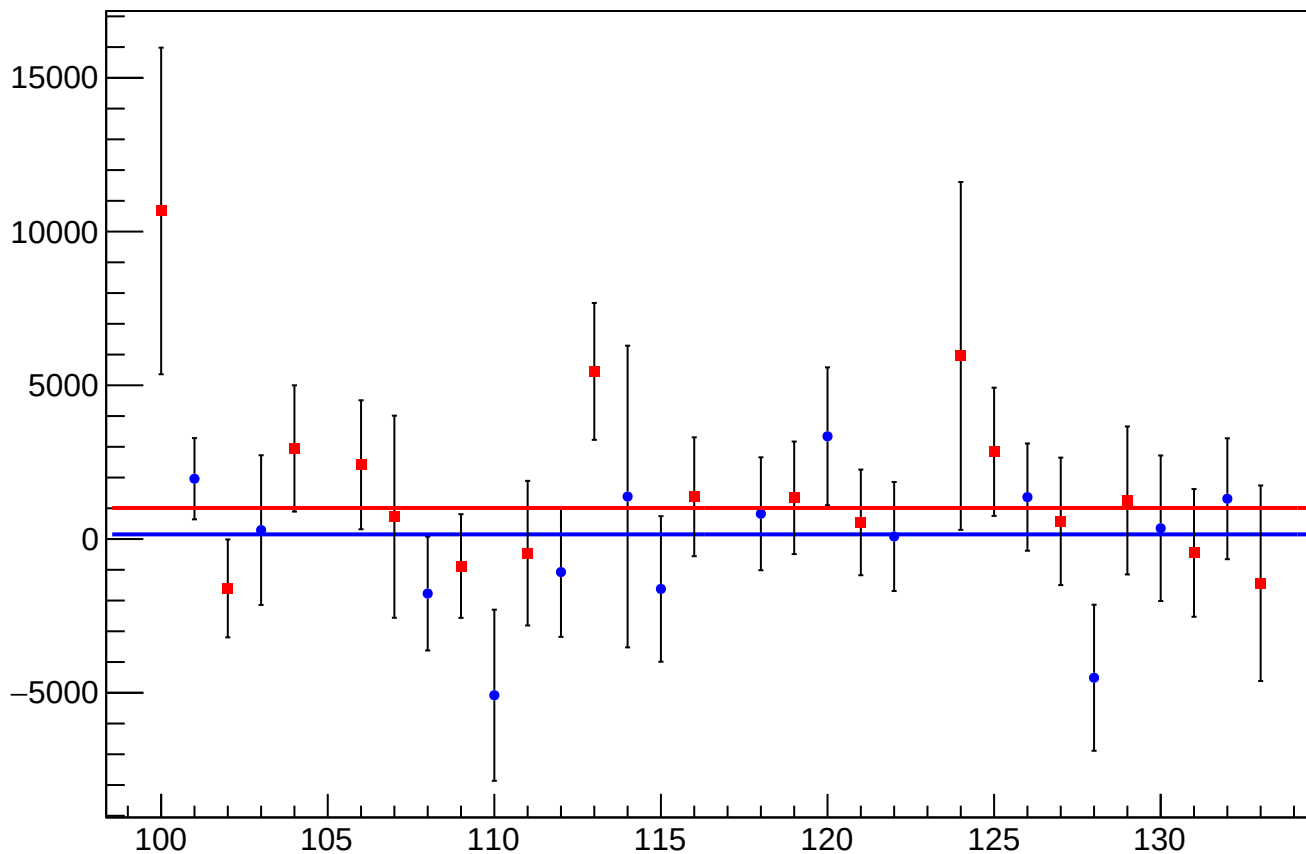
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1274.621+/-0.259  $\chi^2/\text{NDF}$ : 837442.6/30

- 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: 151.977 $\pm$ 545.213  $\chi^2$ /NDF: 14.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1010.941 $\pm$ 525.345  $\chi^2$ /NDF: 15.8/16

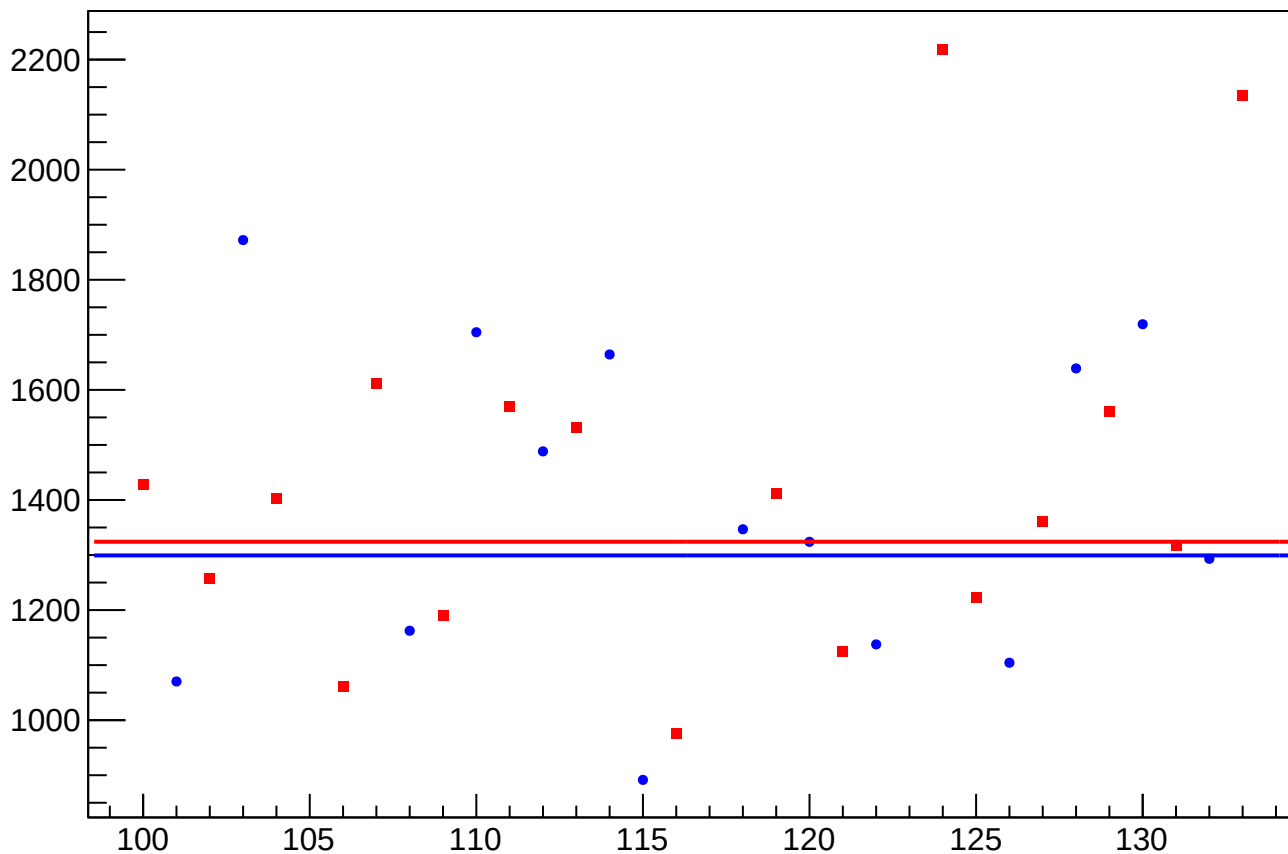
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 597.395 $\pm$ 378.304  $\chi^2$ /NDF: 31.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_cor\_correction\_rms vs Slug



Right In: 1299.268+/-0.386  $\chi^2/\text{NDF}$ : 457723.2/13

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: 1324.171+/-0.371  $\chi^2/\text{NDF}$ : 406955.0/16

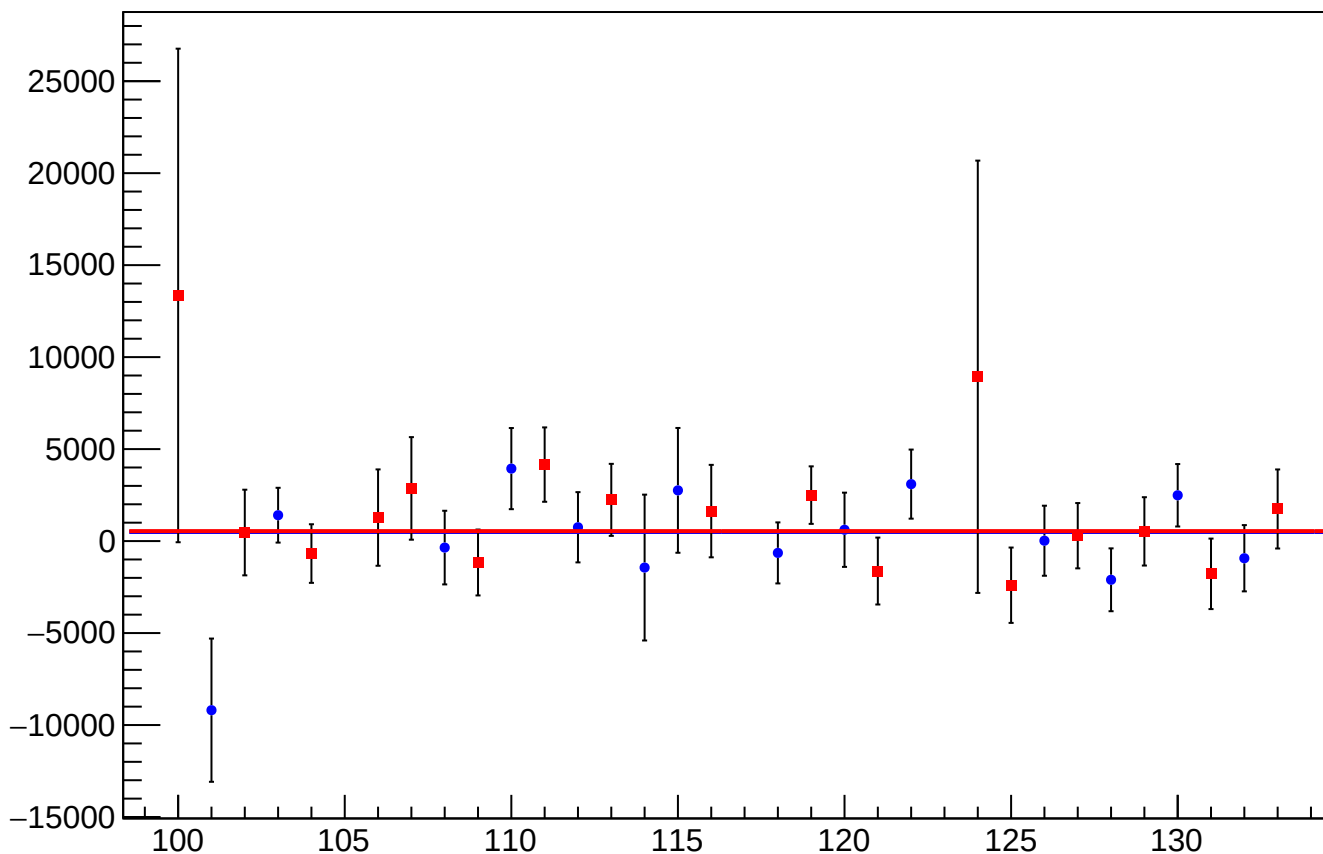
All: 1312.181+/-0.268  $\chi^2/\text{NDF}$ : 866841.9/30

- 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\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 493.780+/-529.749  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 541.482+/-507.165  $\chi^2/\text{NDF}$ : 14.7/16

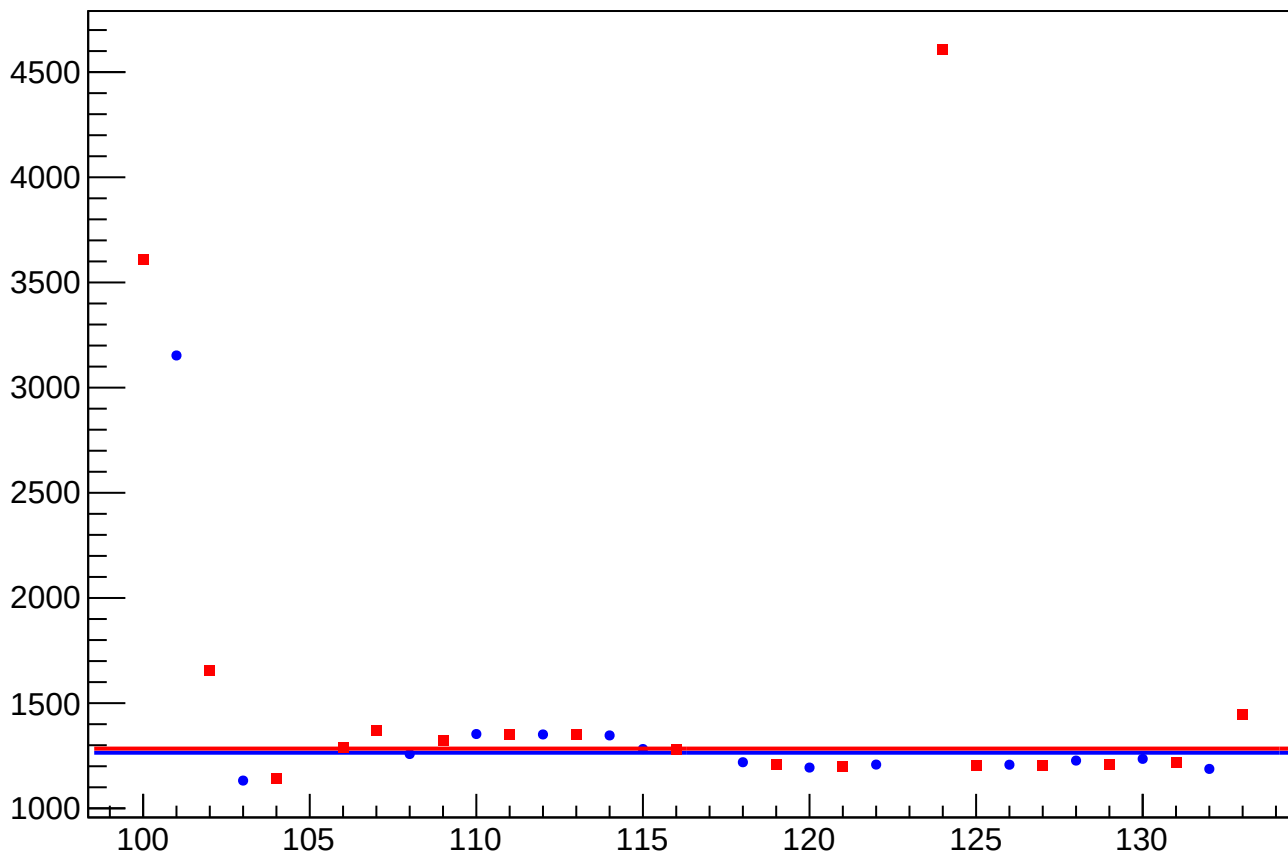
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 518.670+/-366.344  $\chi^2/\text{NDF}$ : 31.4/30

- 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: 1264.375+/-0.375  $\chi^2/\text{NDF}$ : 507495.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1284.011+/-0.359  $\chi^2/\text{NDF}$ : 328513.3/16

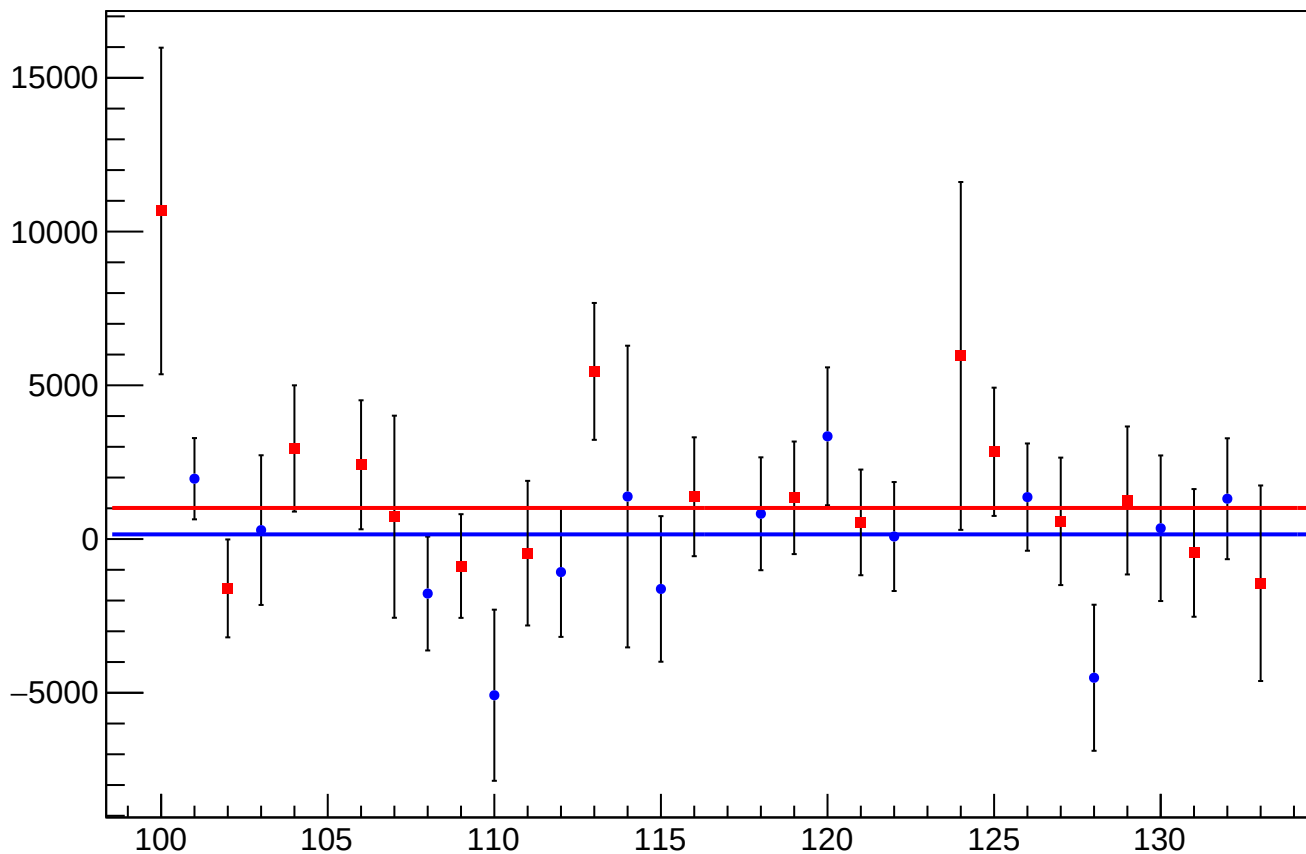
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1274.621+/-0.259  $\chi^2/\text{NDF}$ : 837442.6/30

- 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: 151.977 $\pm$ 545.213  $\chi^2$ /NDF: 14.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1010.941 $\pm$ 525.345  $\chi^2$ /NDF: 15.8/16

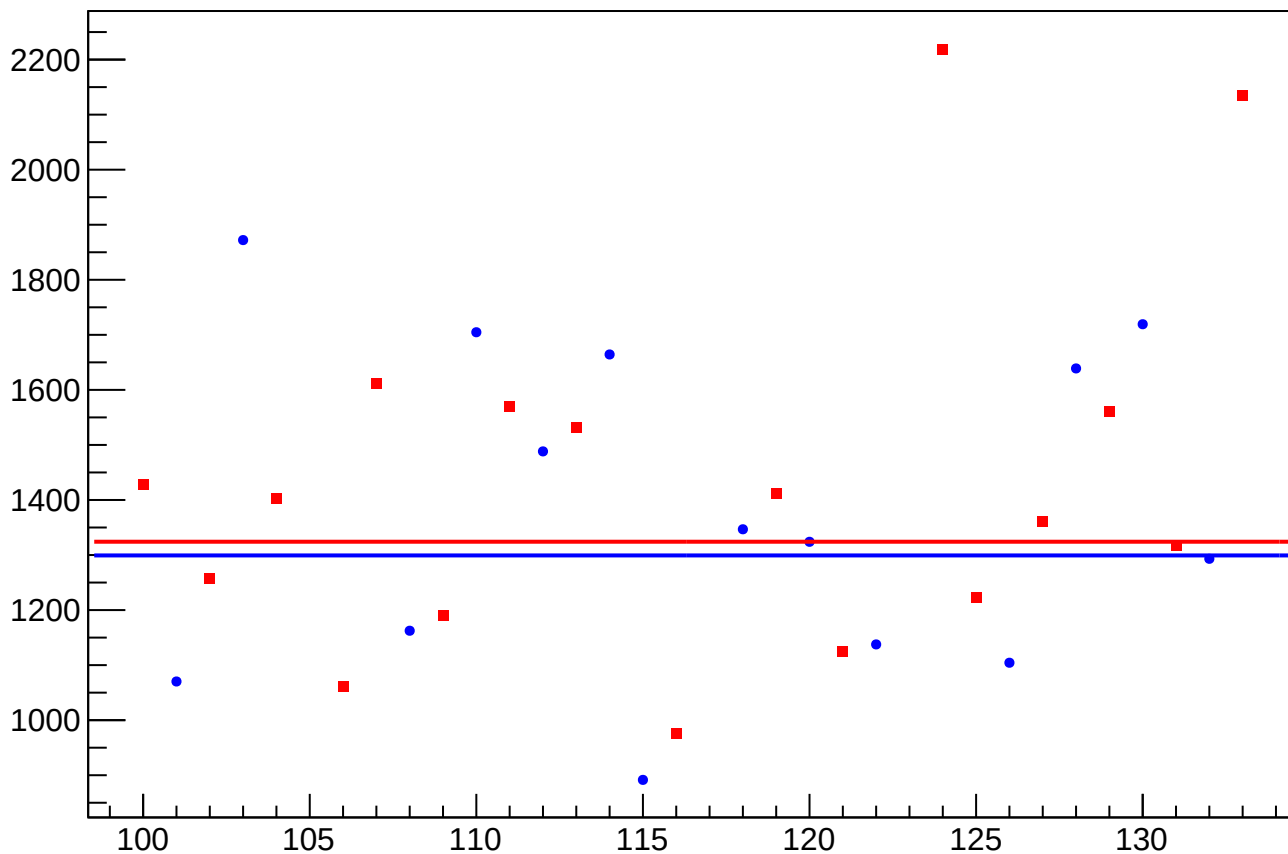
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 597.395 $\pm$ 378.304  $\chi^2$ /NDF: 31.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1299.268+/-0.386  $\chi^2/\text{NDF}$ : 457723.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1324.171+/-0.371  $\chi^2/\text{NDF}$ : 406955.0/16

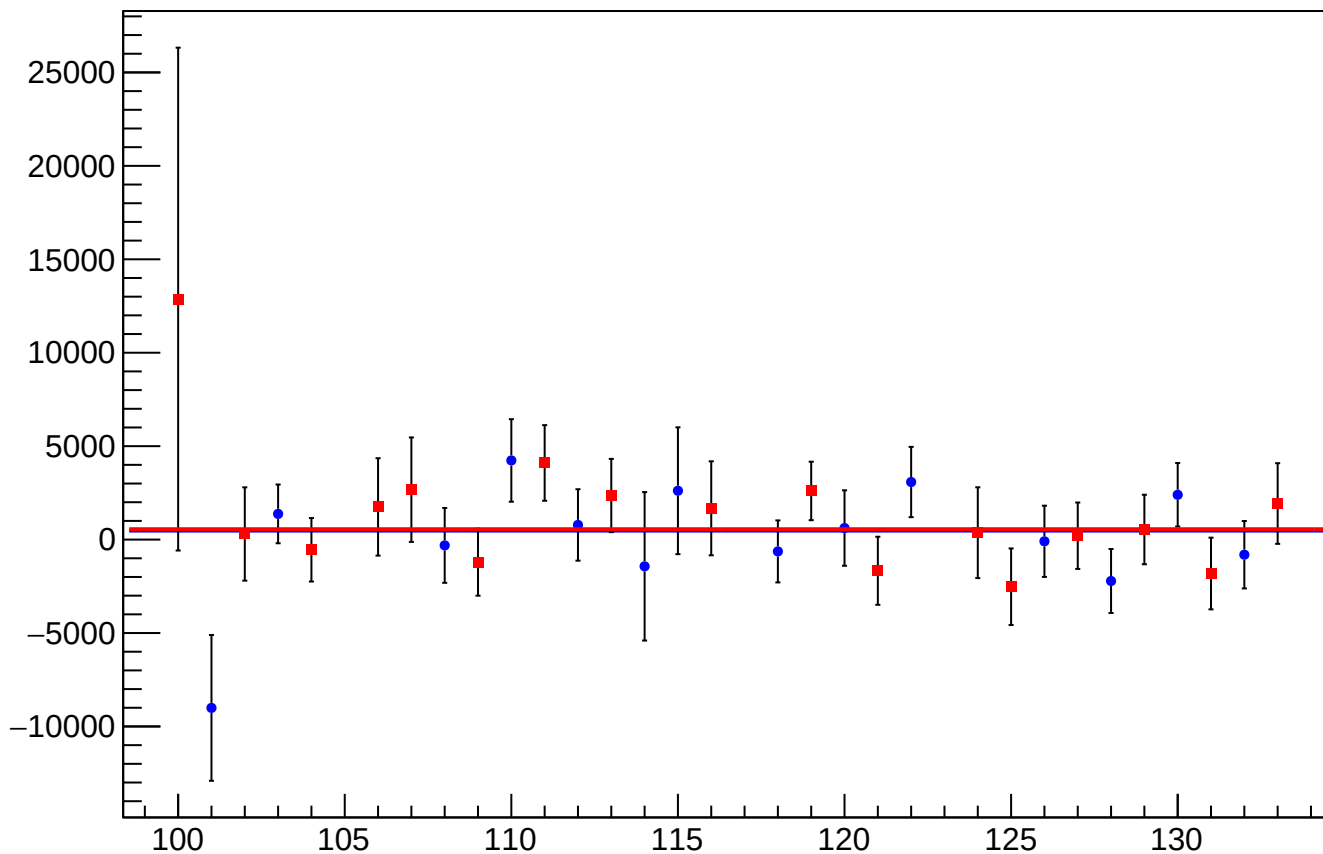
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1312.181+/-0.268  $\chi^2/\text{NDF}$ : 866841.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 484.146 $\pm$ 533.703  $\chi^2$ /NDF: 16.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 554.398 $\pm$ 501.845  $\chi^2$ /NDF: 14.6/16

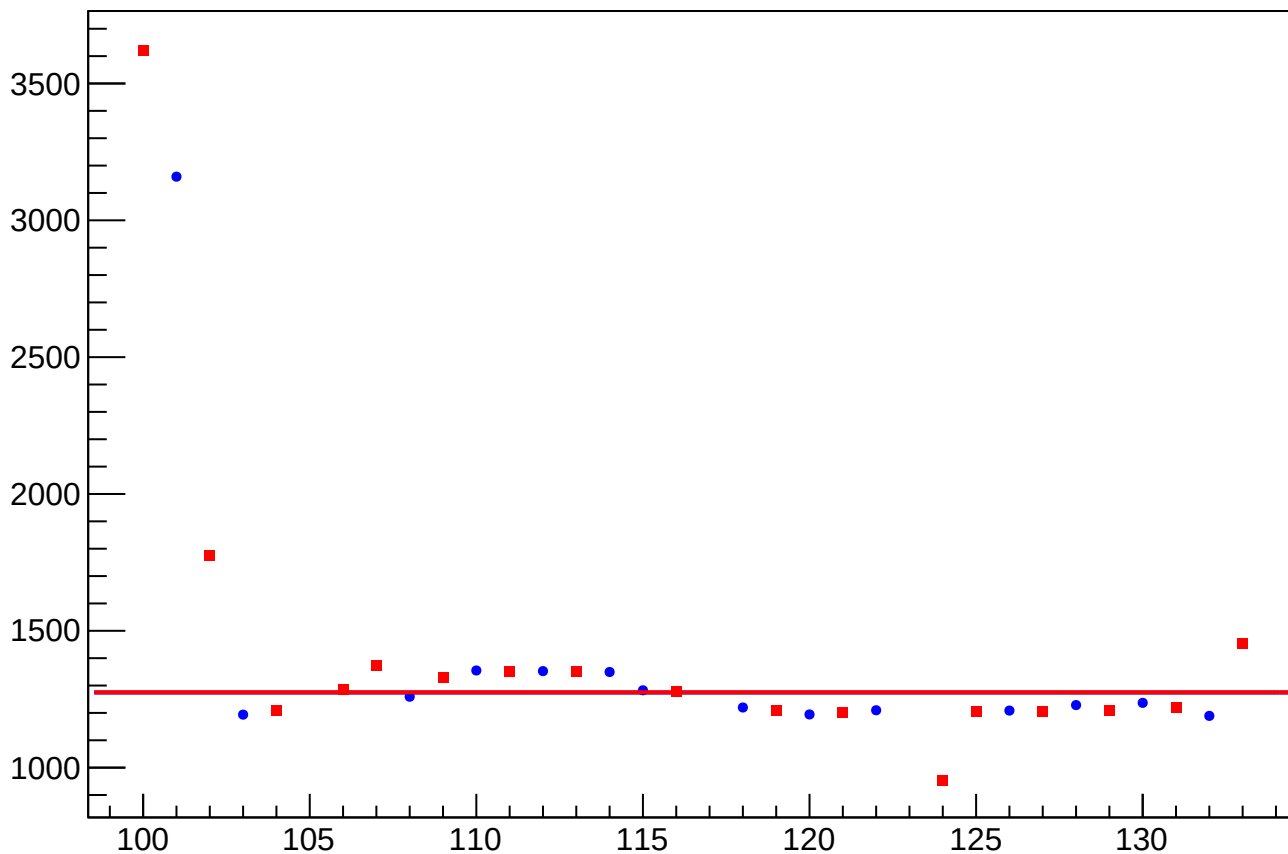
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 521.431 $\pm$ 365.602  $\chi^2$ /NDF: 31.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 1274.401 $\pm$ 0.377  $\chi^2$ /NDF: 496027.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1275.340 $\pm$ 0.355  $\chi^2$ /NDF: 220135.3/16

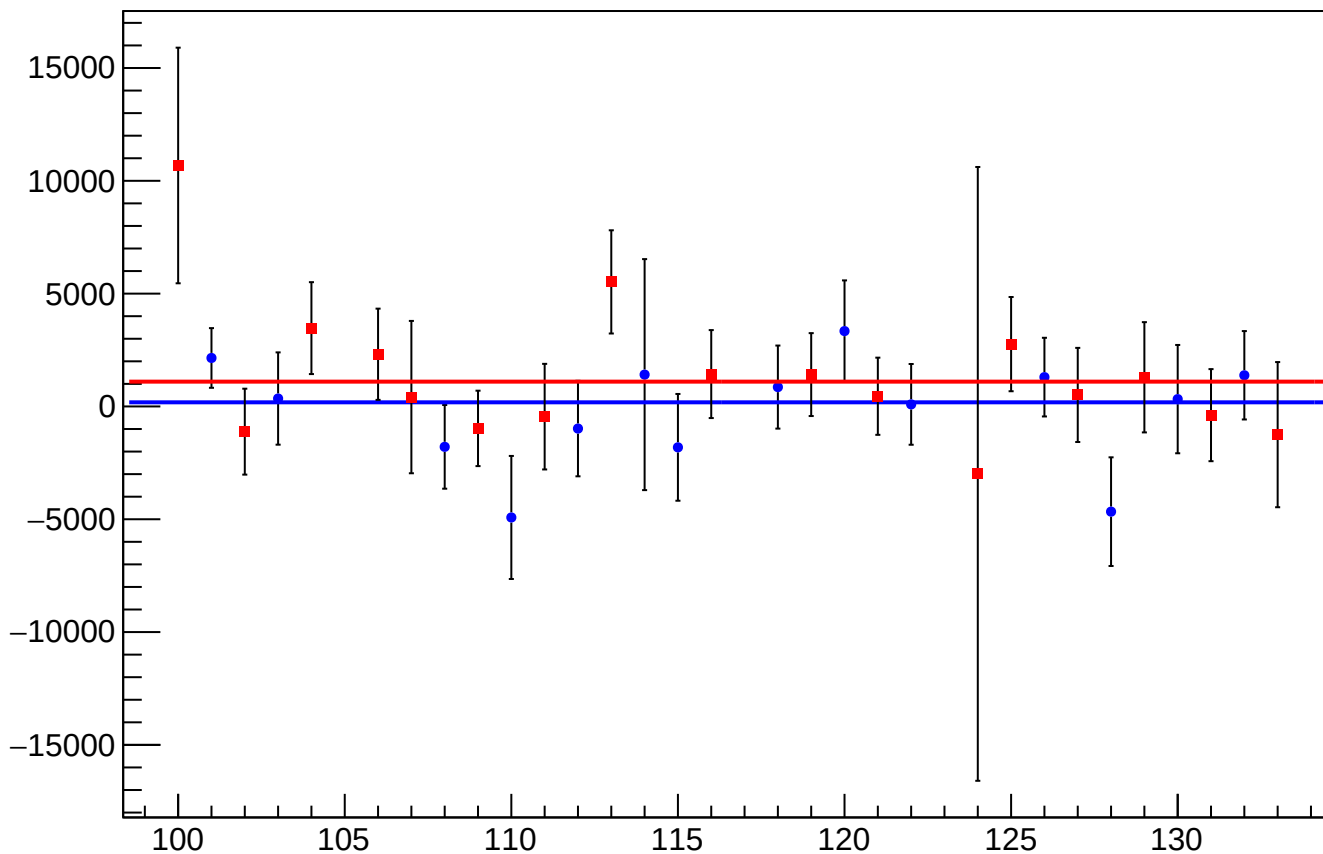
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1274.899 $\pm$ 0.259  $\chi^2$ /NDF: 716165.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_dit\_correction\_mean vs Slug



Right In: 182.742 $\pm$ 540.951  $\chi^2$ /NDF: 14.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1099.359 $\pm$ 535.449  $\chi^2$ /NDF: 14.3/16

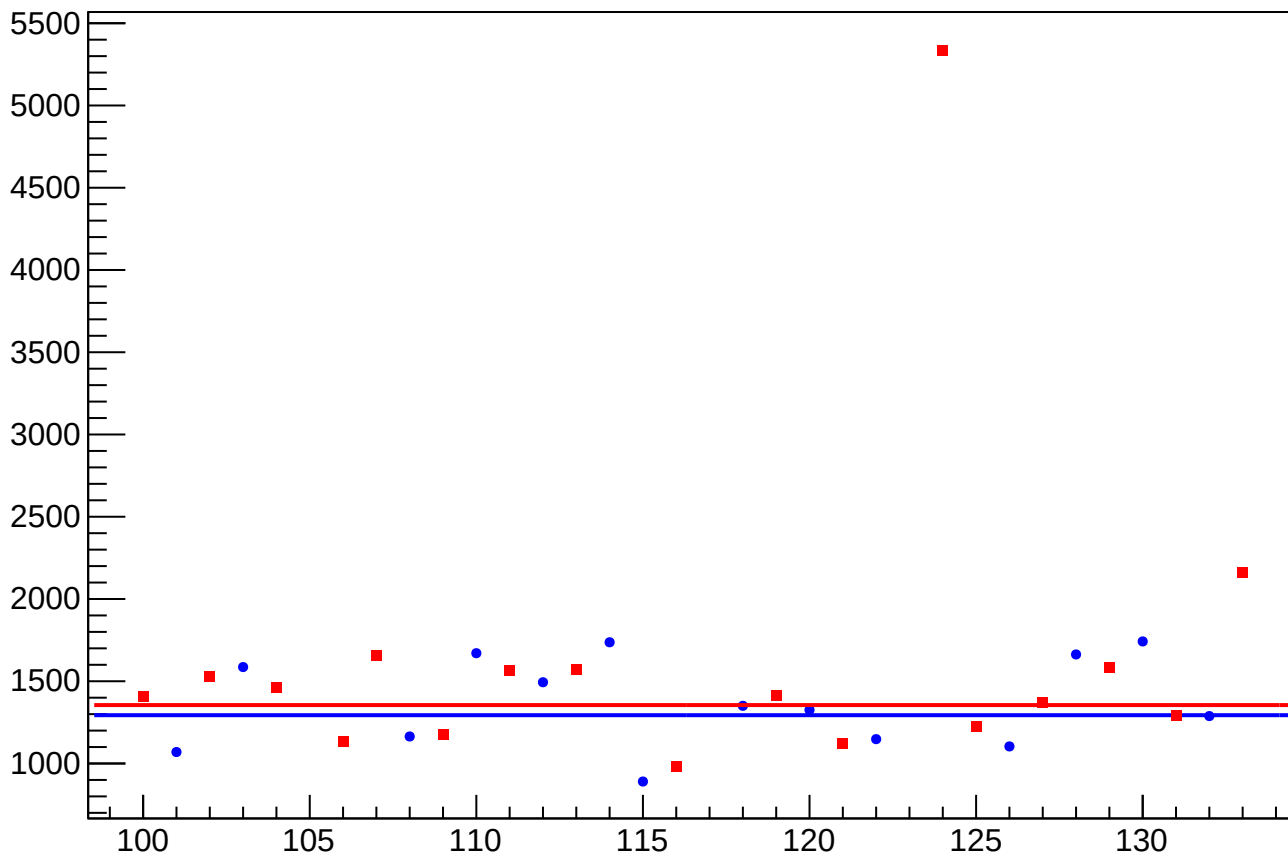
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 645.736 $\pm$ 380.550  $\chi^2$ /NDF: 30.6/30

- 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: 1293.614+/-0.383  $\chi^2/\text{NDF}$ : 393312.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1355.120+/-0.379  $\chi^2/\text{NDF}$ : 556398.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

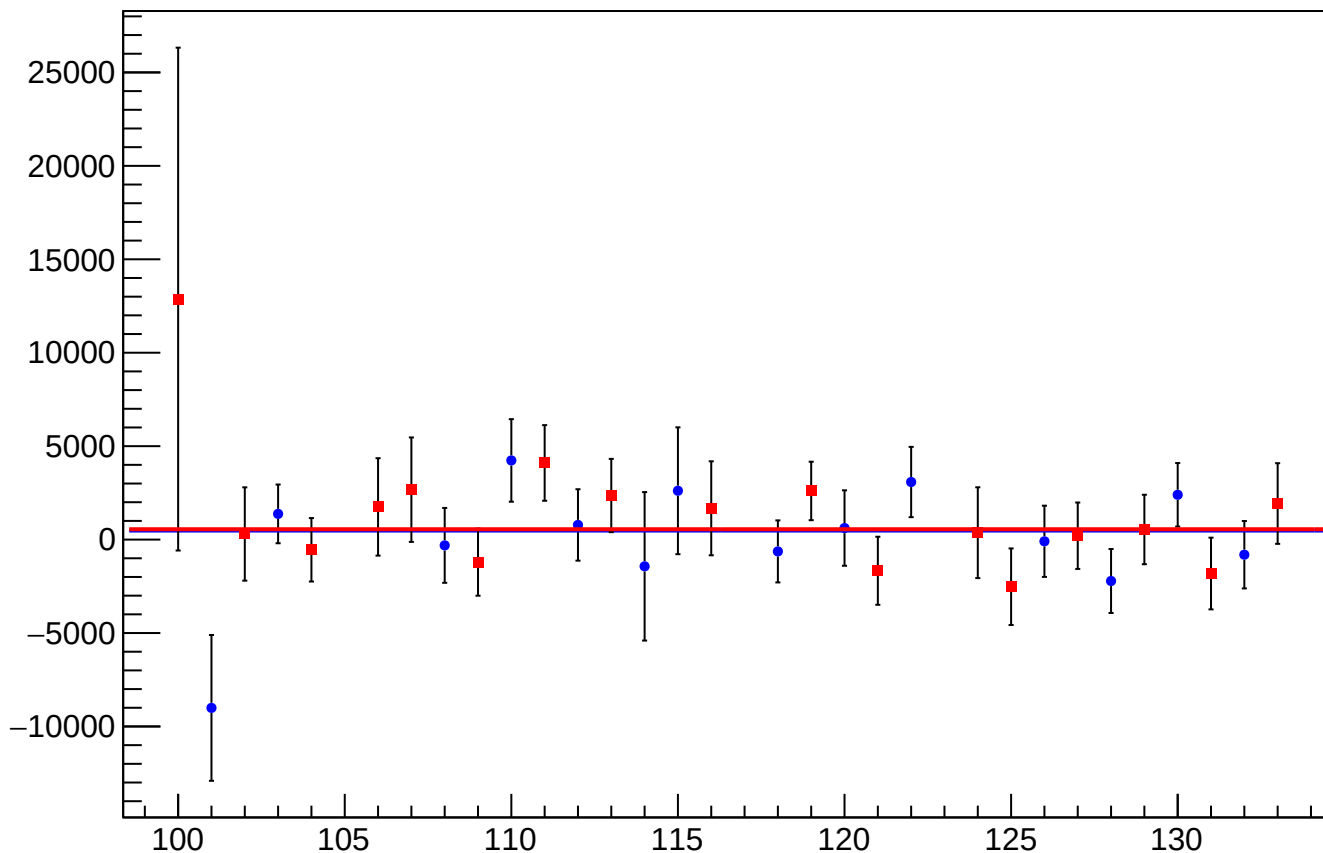
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1324.681+/-0.269  $\chi^2/\text{NDF}$ : 962770.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 484.143+/-533.703  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 554.398+/-501.845  $\chi^2/\text{NDF}$ : 14.6/16

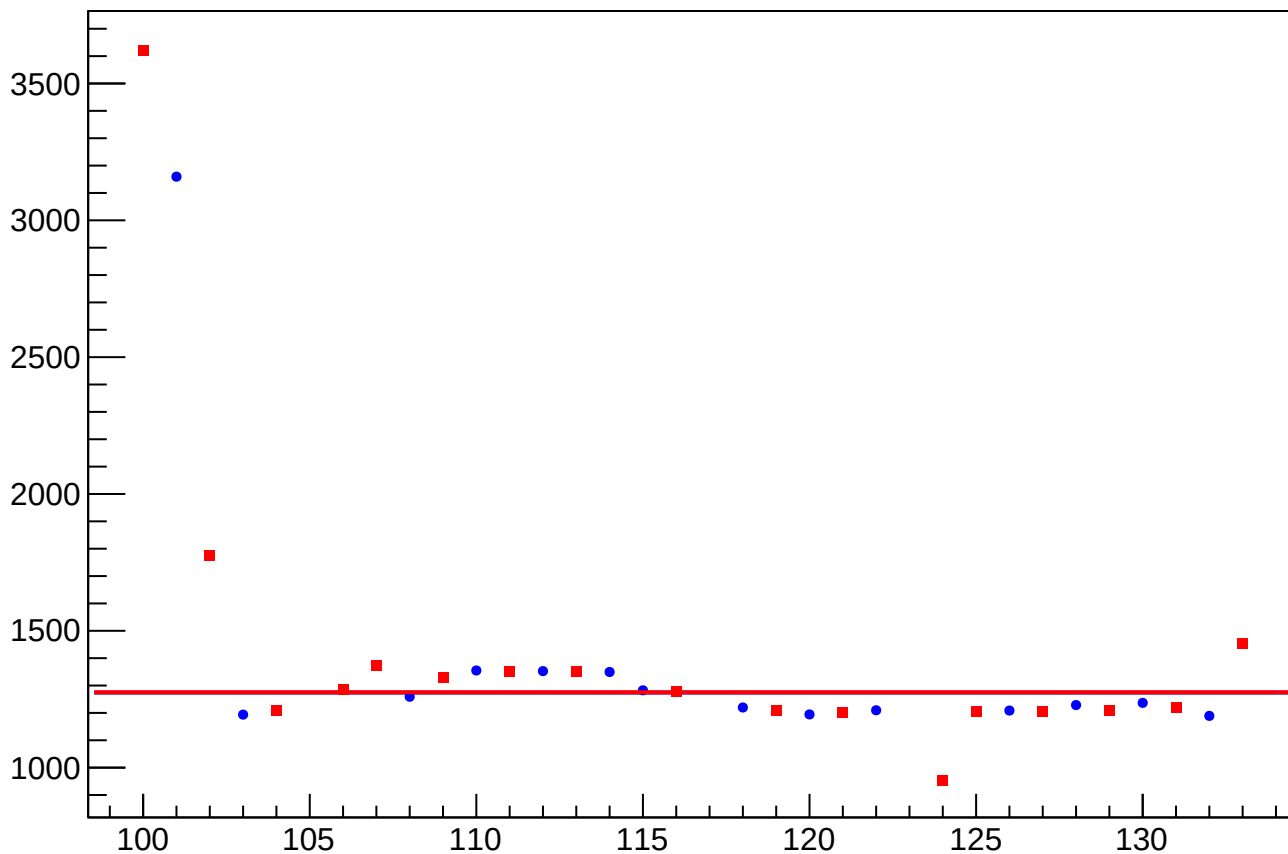
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 521.430+/-365.602  $\chi^2/\text{NDF}$ : 31.2/30

- 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: 1274.401+/-0.377  $\chi^2/\text{NDF}$ : 496027.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1275.340+/-0.355  $\chi^2/\text{NDF}$ : 220135.1/16

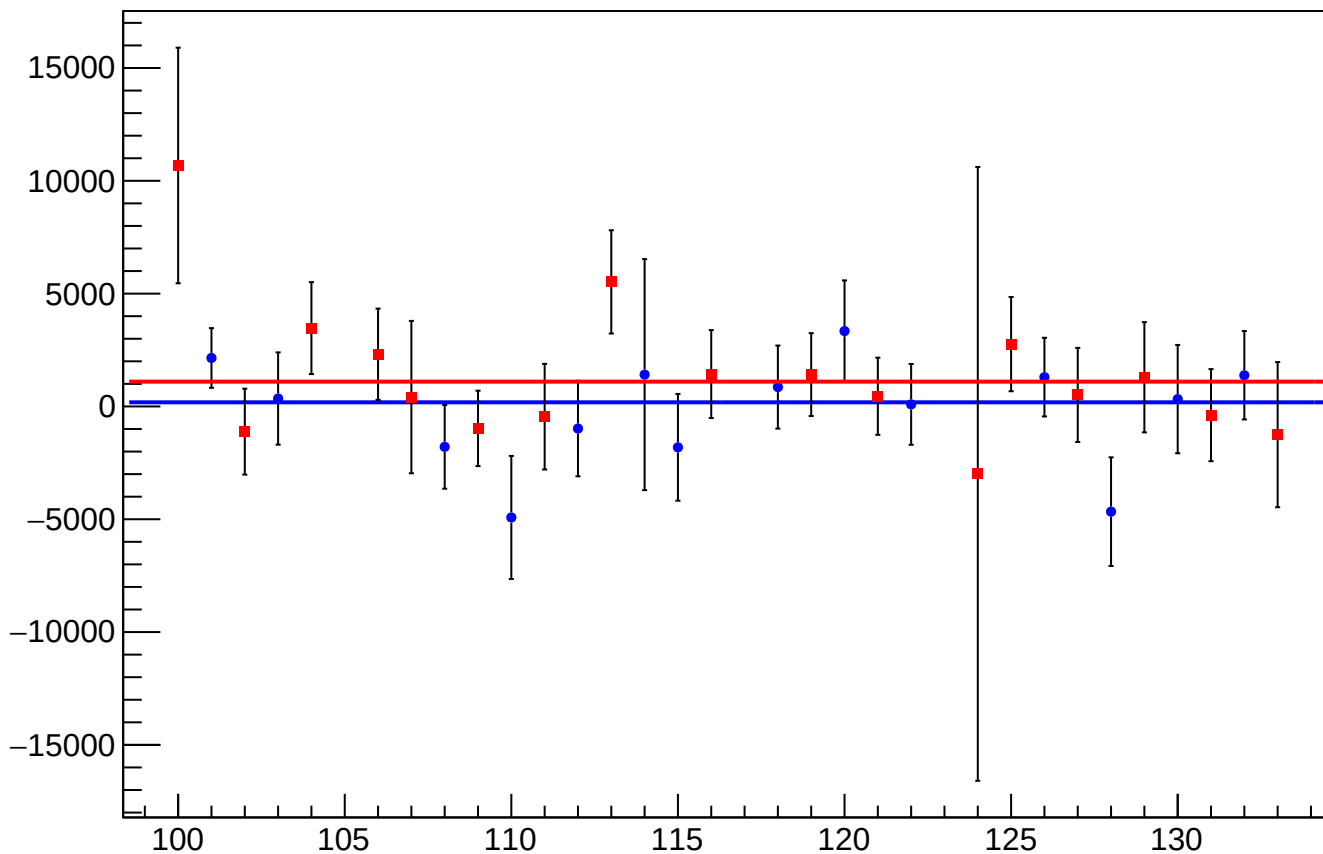
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1274.899+/-0.259  $\chi^2/\text{NDF}$ : 716165.7/30

- 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: 182.742 $\pm$ 540.949  $\chi^2$ /NDF: 14.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1099.360 $\pm$ 535.448  $\chi^2$ /NDF: 14.3/16

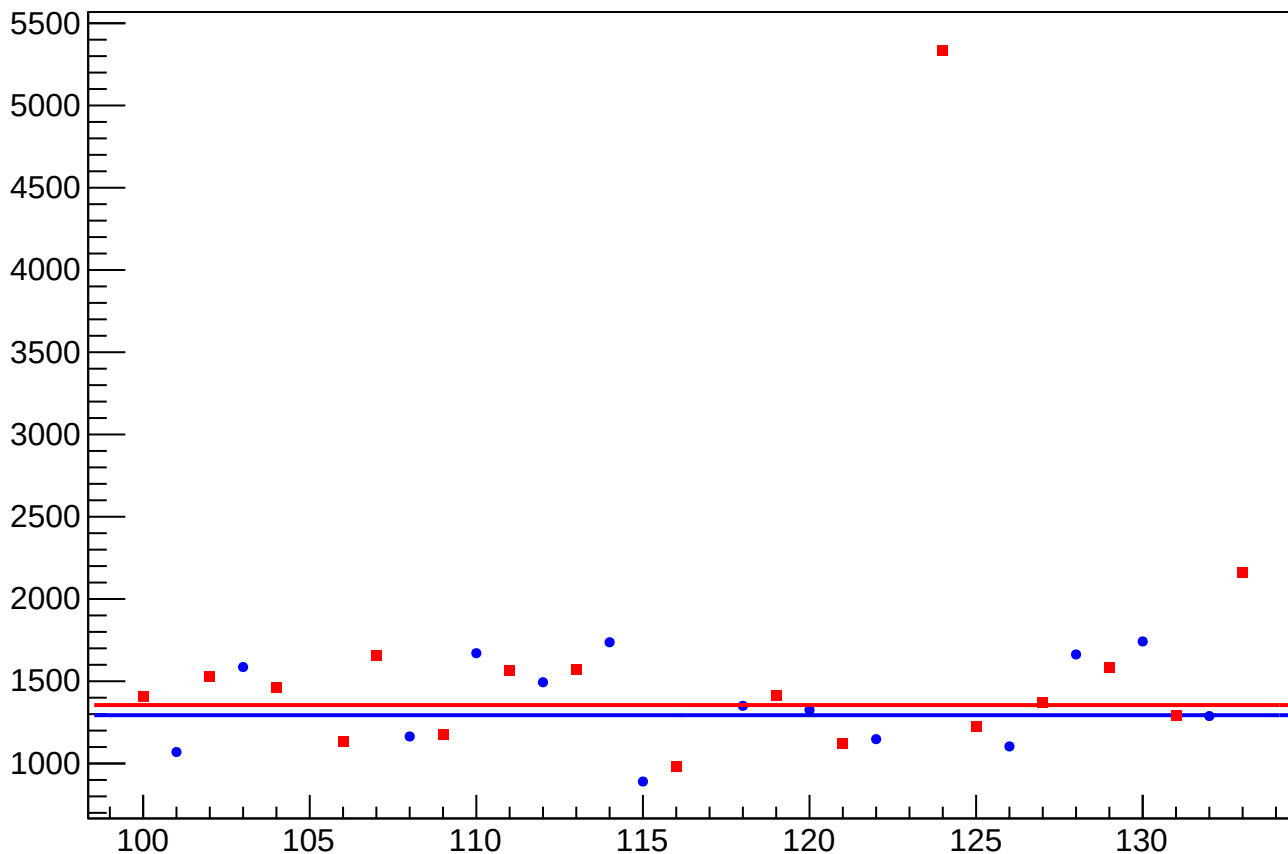
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 645.735 $\pm$ 380.549  $\chi^2$ /NDF: 30.6/30

- 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: 1293.609+/-0.383  $\chi^2/\text{NDF}$ : 393316.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1355.119+/-0.379  $\chi^2/\text{NDF}$ : 556398.8/16

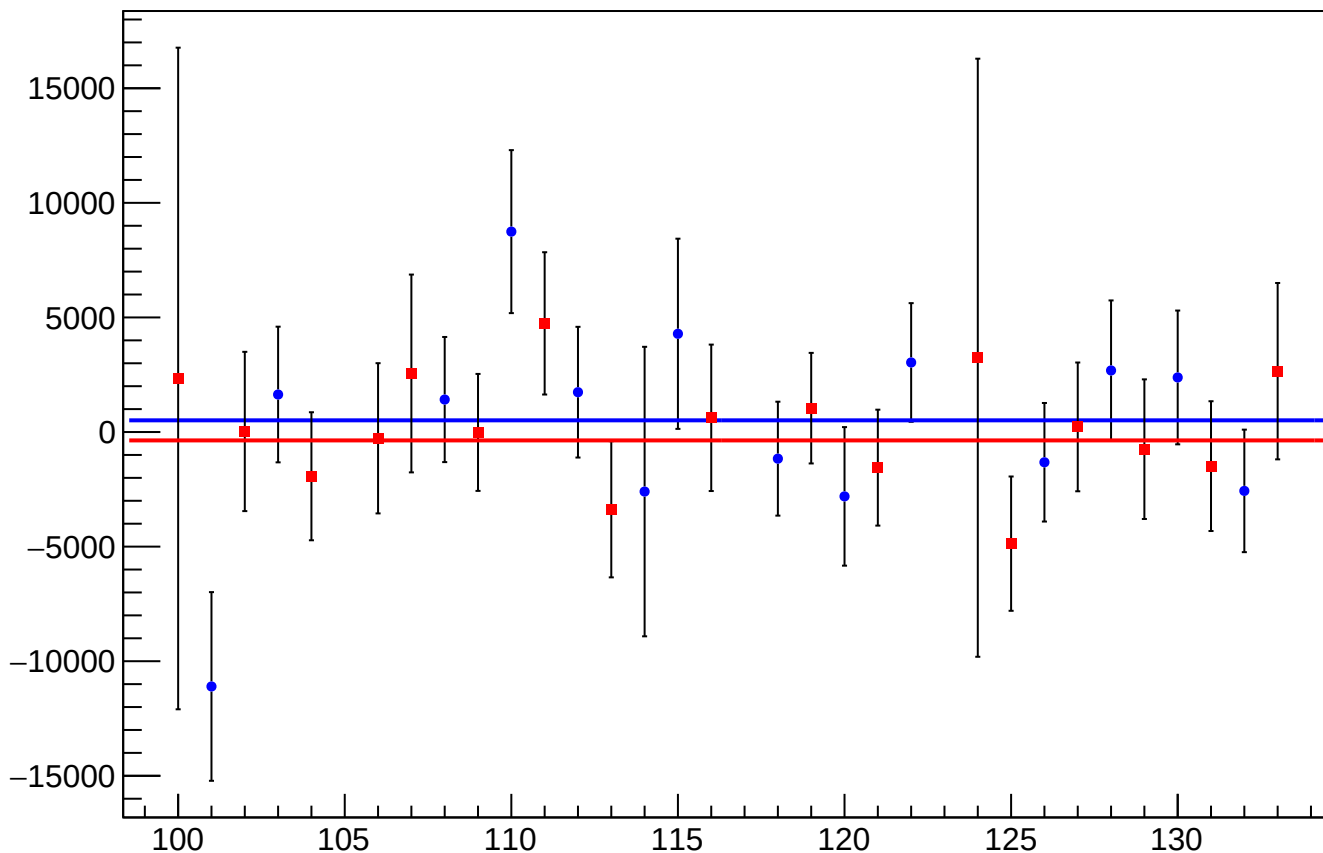
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1324.678+/-0.269  $\chi^2/\text{NDF}$ : 962776.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug



Right In: 510.322 $\pm$ 809.248  $\chi^2$ /NDF: 20.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -365.785 $\pm$ 765.056  $\chi^2$ /NDF: 8.5/16

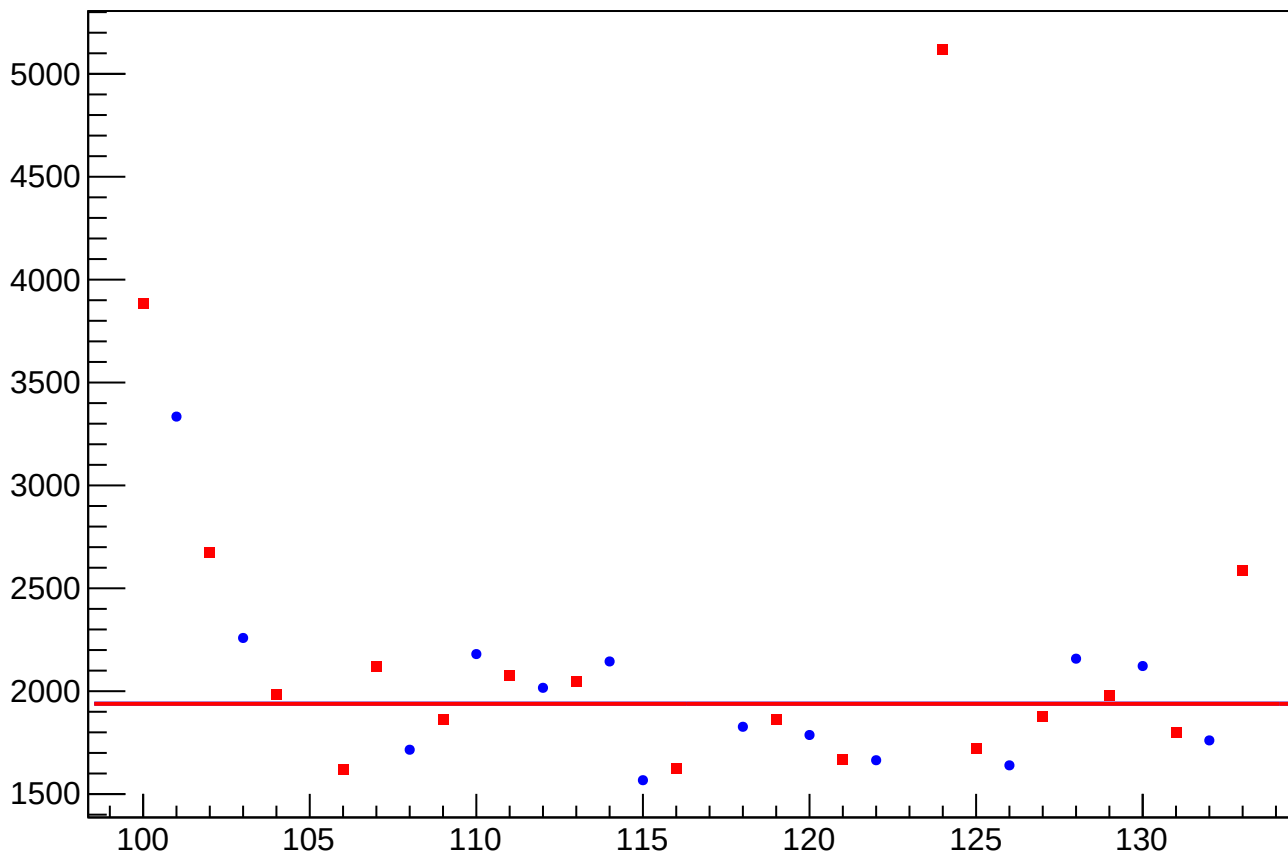
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.695 $\pm$ 555.943  $\chi^2$ /NDF: 29.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug



Right In: 1939.467+/-0.572  $\chi^2/\text{NDF}$ : 380834.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1938.744+/-0.541  $\chi^2/\text{NDF}$ : 394697.6/16

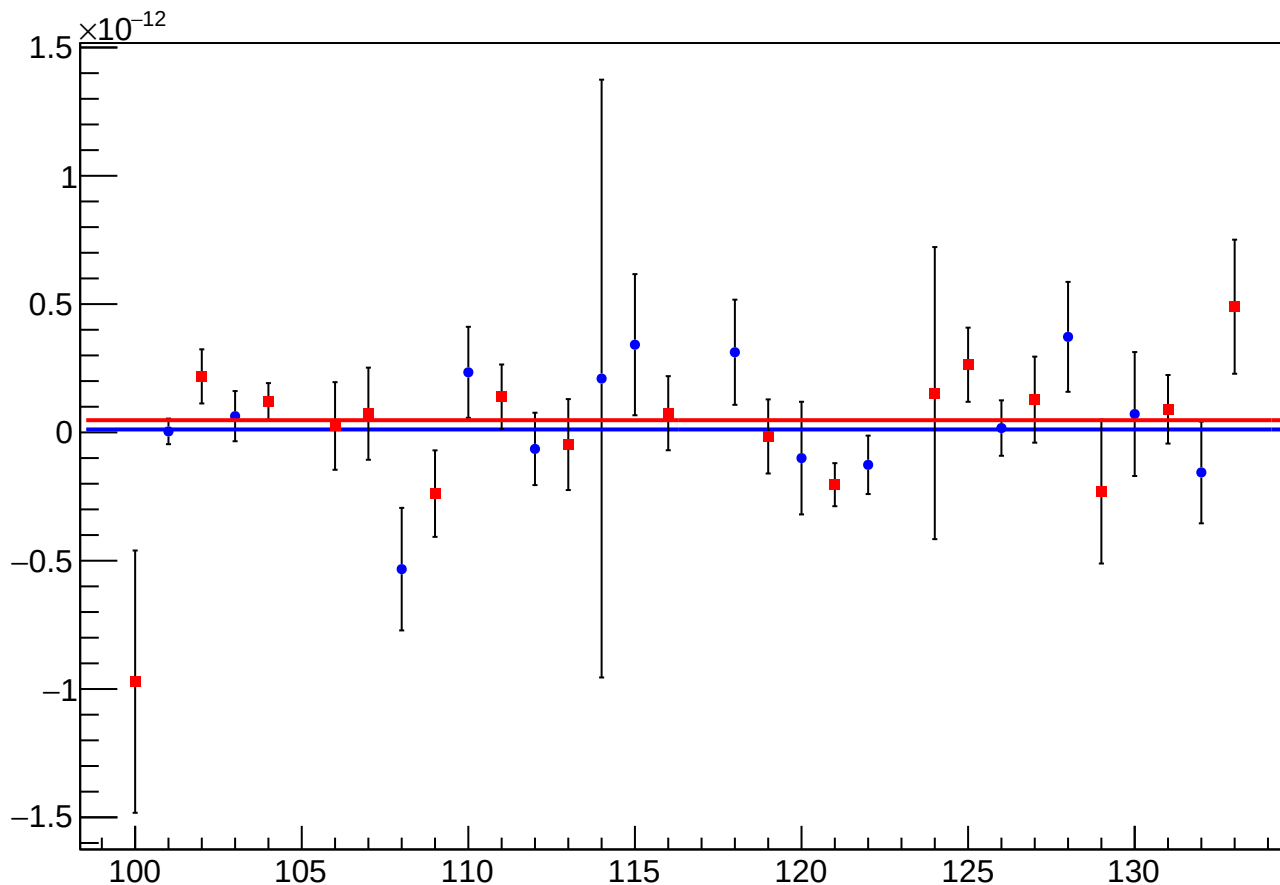
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1939.085+/-0.393  $\chi^2/\text{NDF}$ : 775532.6/30

- 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: 16.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 27.0/16

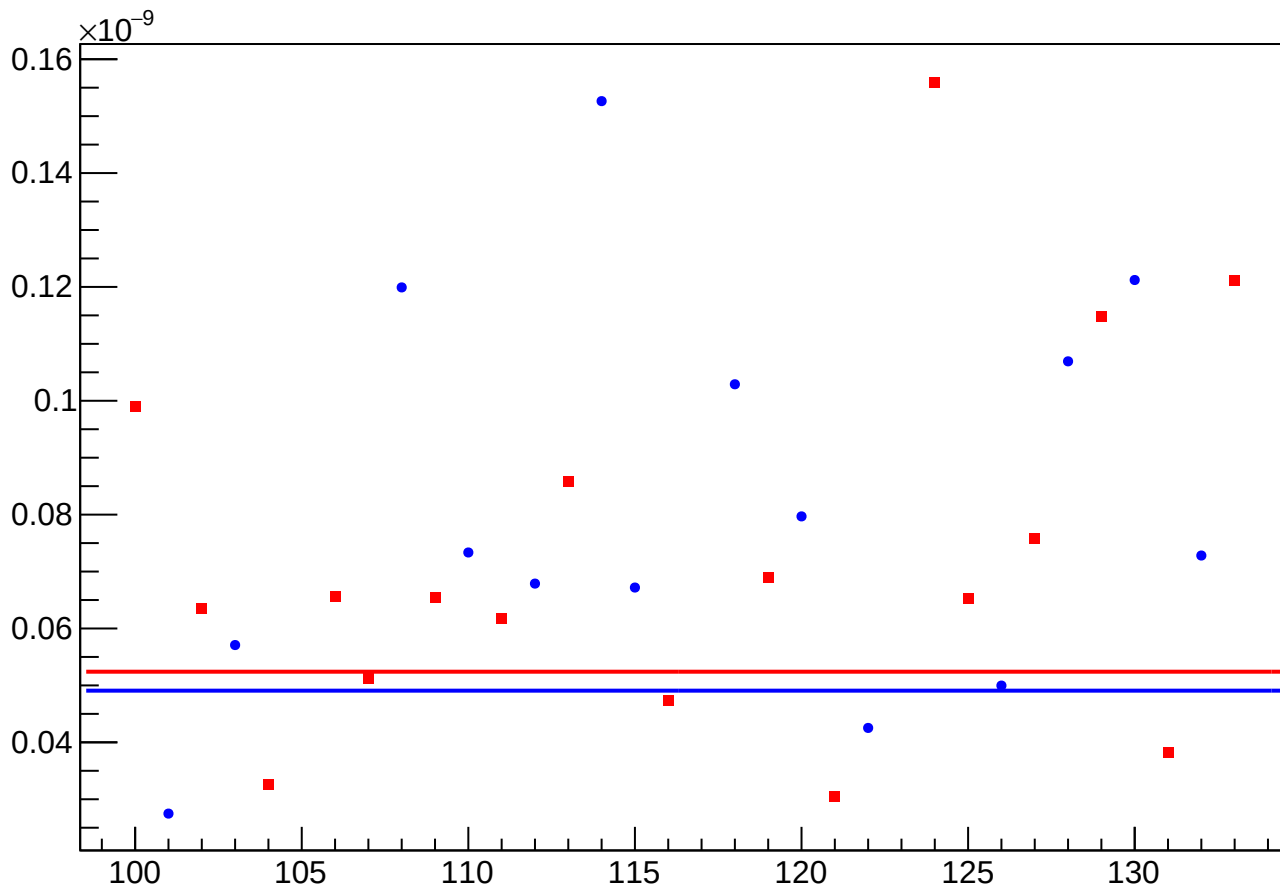
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 44.0/30

- 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  $\chi^2/\text{NDF}$ : 1199741.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 844884.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

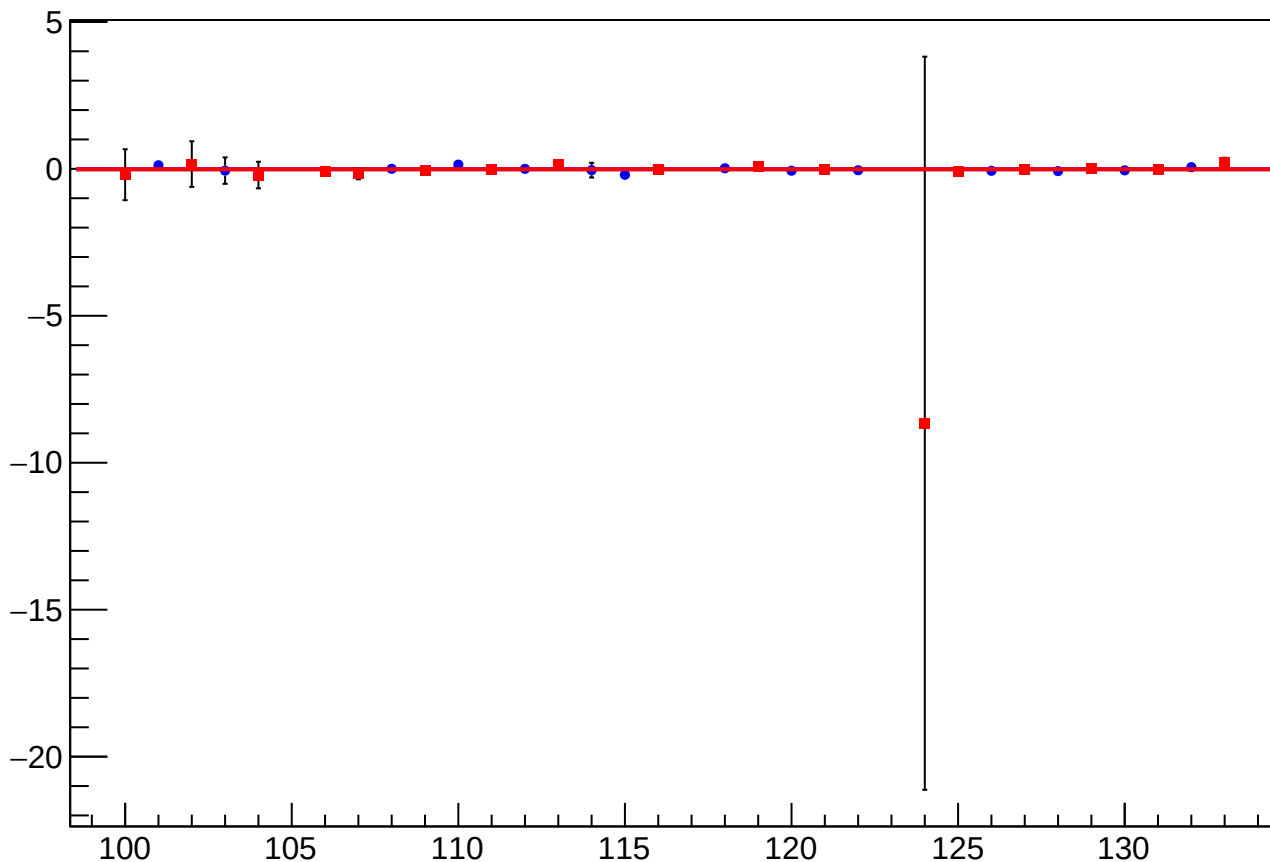
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2054543.6/30

- 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:  $-0.013 \pm 0.020$   $\chi^2/\text{NDF}$ : 13.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.014 \pm 0.019$   $\chi^2/\text{NDF}$ : 12.5/16

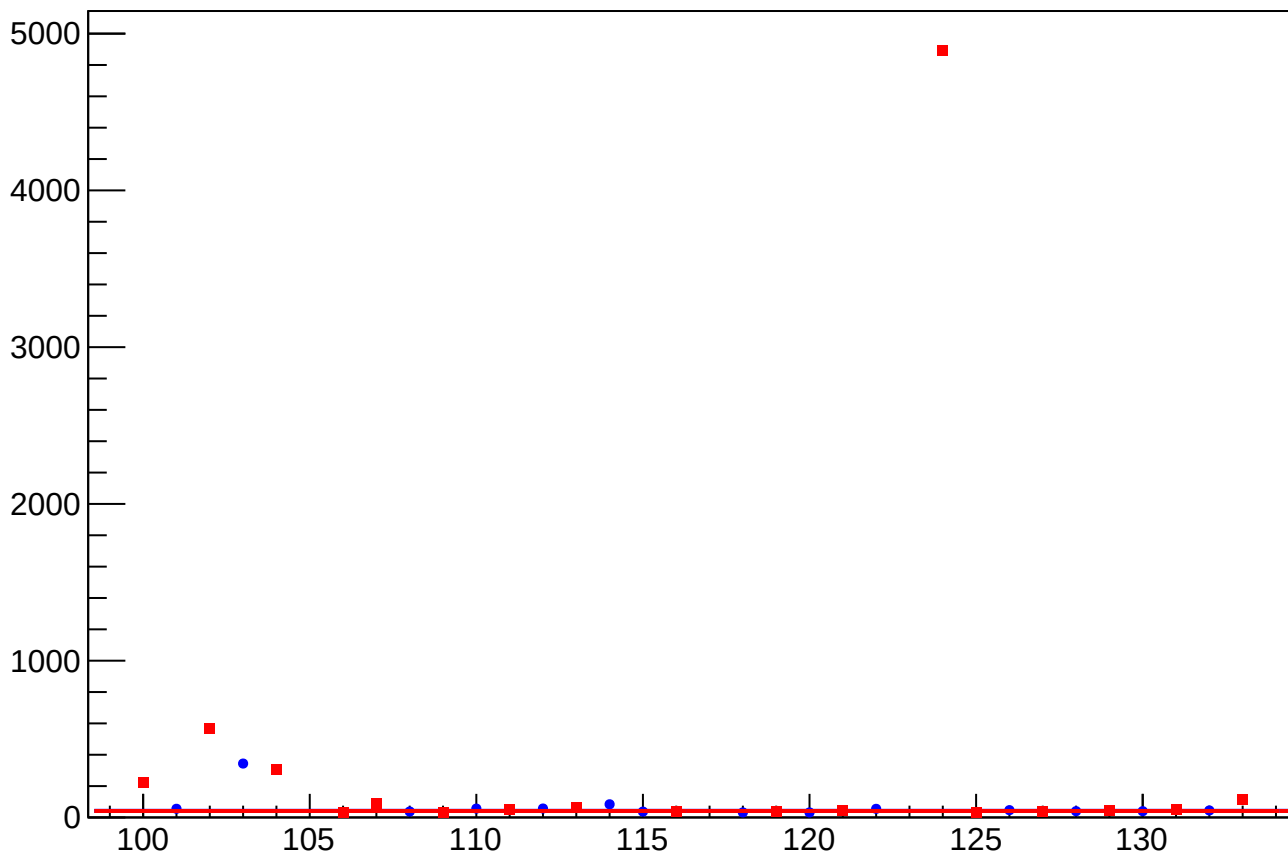
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.014 \pm 0.014$   $\chi^2/\text{NDF}$ : 26.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 42.284+/-0.014  $\chi^2/\text{NDF}$ : 1356322.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 41.239+/-0.014  $\chi^2/\text{NDF}$ : 2799445.4/16

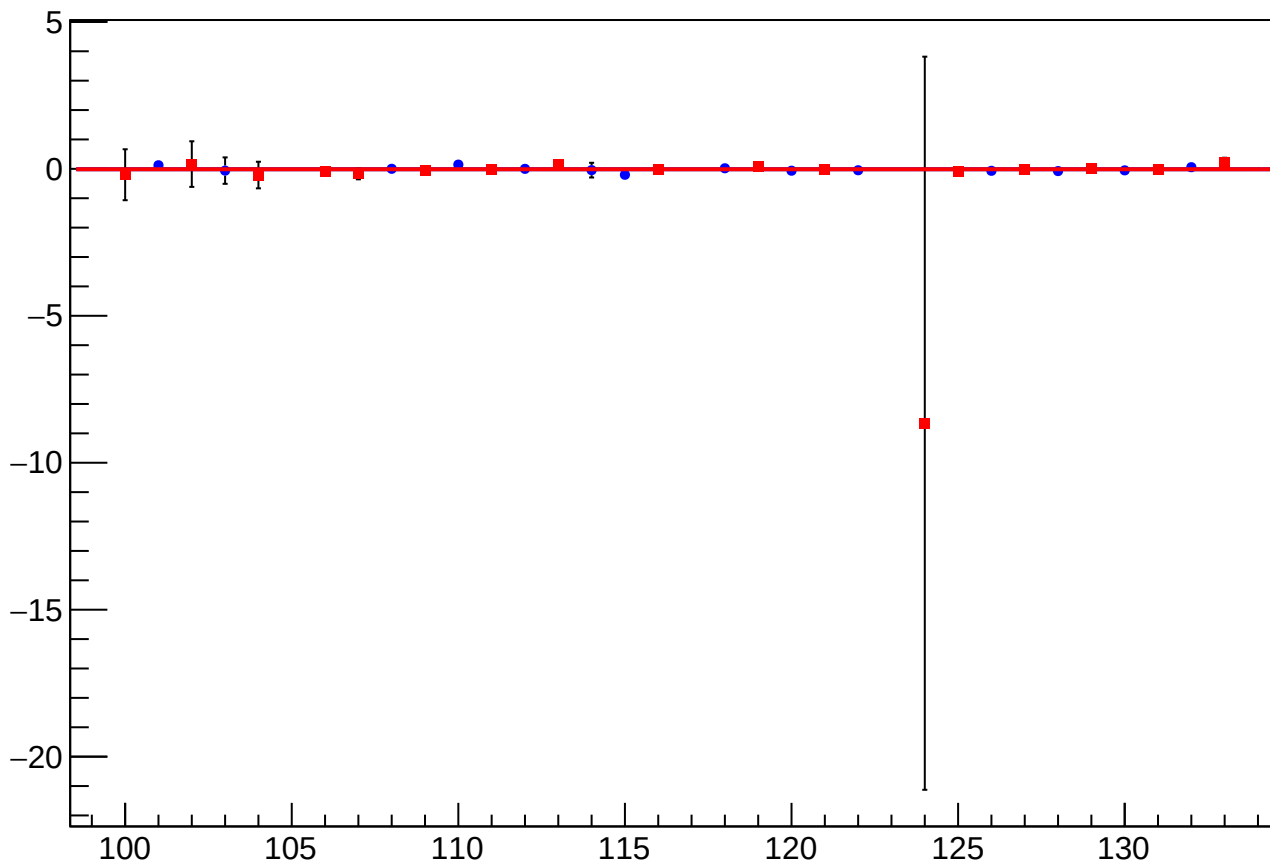
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.757+/-0.010  $\chi^2/\text{NDF}$ : 4158623.0/30

- 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: -0.013 $\pm$ 0.020  $\chi^2$ /NDF: 13.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.014 $\pm$ 0.019  $\chi^2$ /NDF: 12.5/16

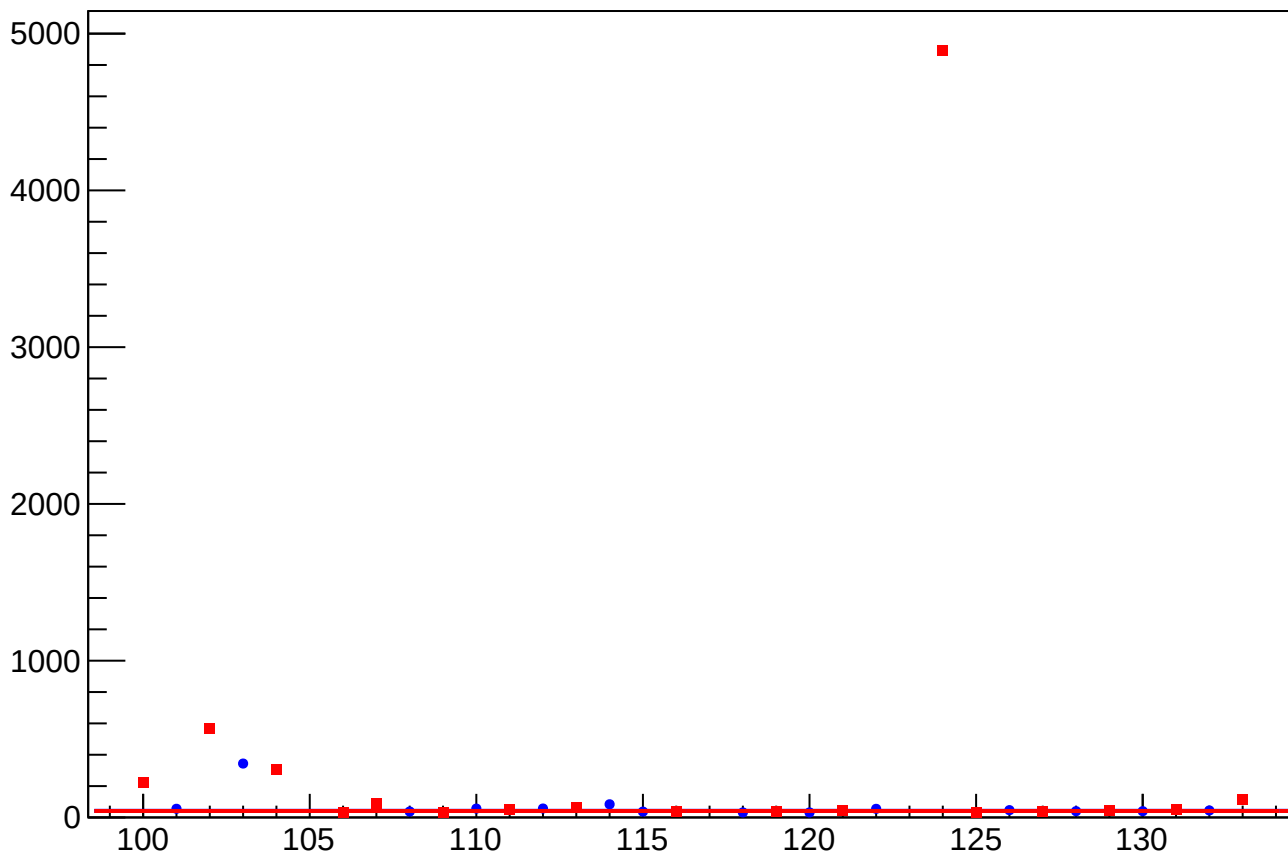
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.014 $\pm$ 0.014  $\chi^2$ /NDF: 26.1/30

- 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: 42.284+/-0.014  $\chi^2/\text{NDF}$ : 1356322.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 41.239+/-0.014  $\chi^2/\text{NDF}$ : 2799445.4/16

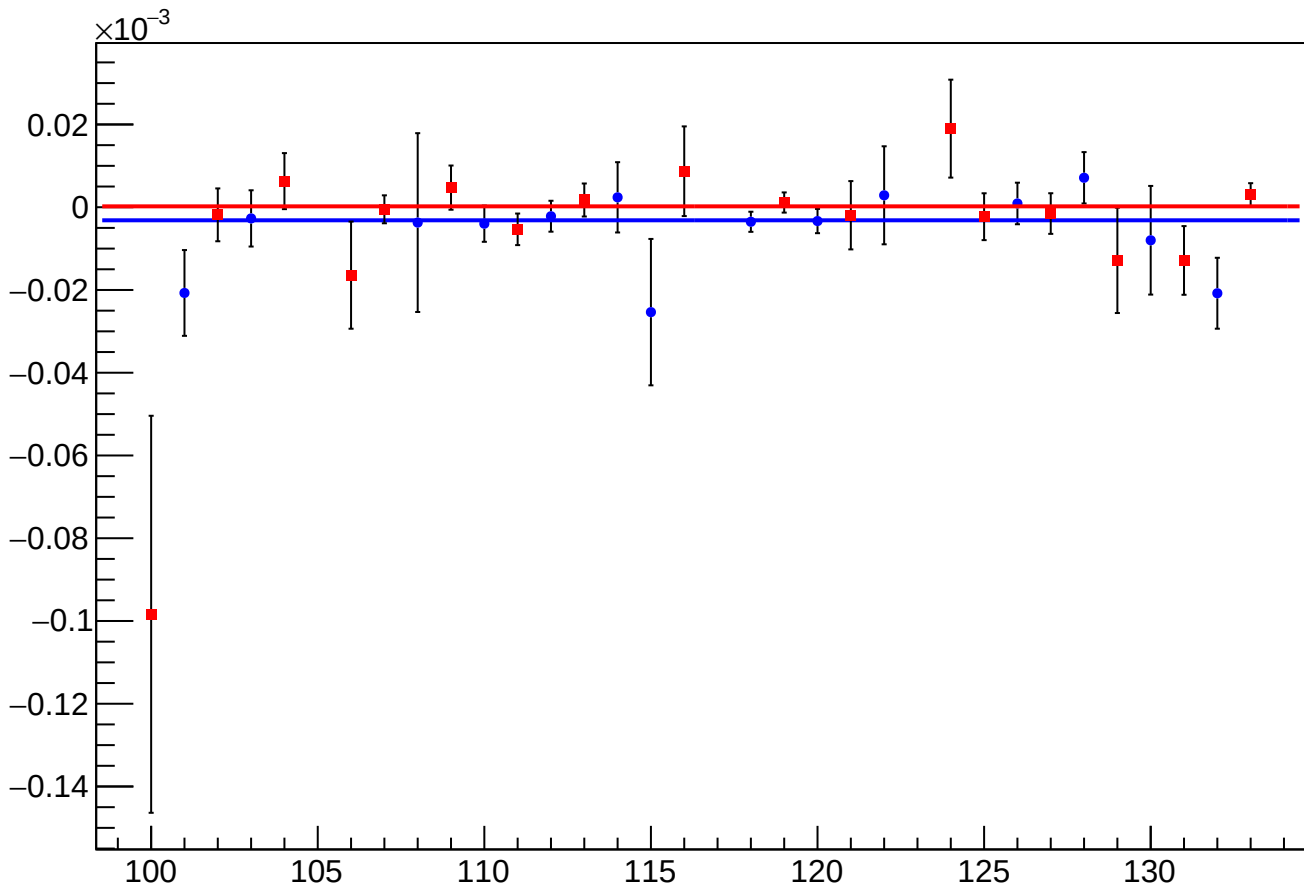
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.757+/-0.010  $\chi^2/\text{NDF}$ : 4158623.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 13.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 17.9/16

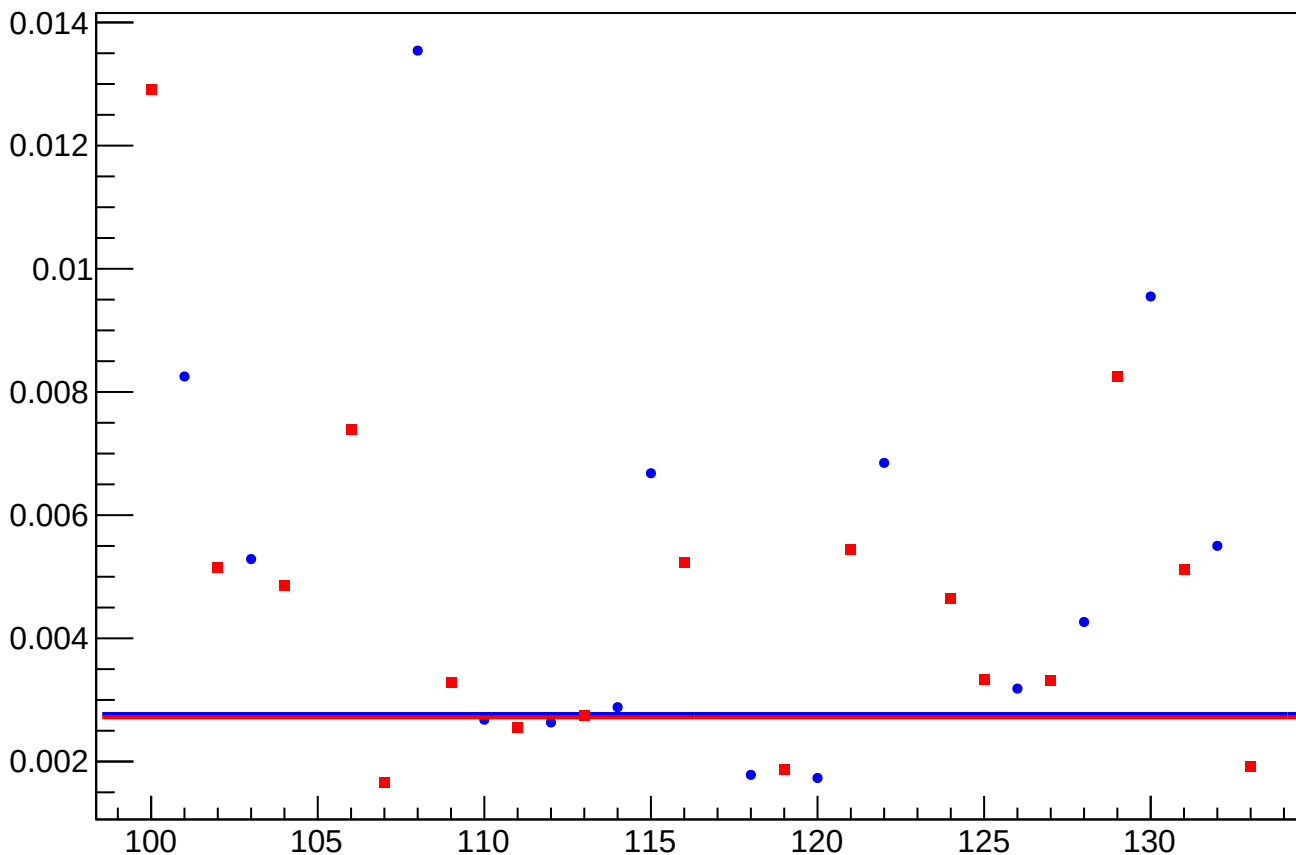
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 34.5/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 3115967.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2442211.3/16

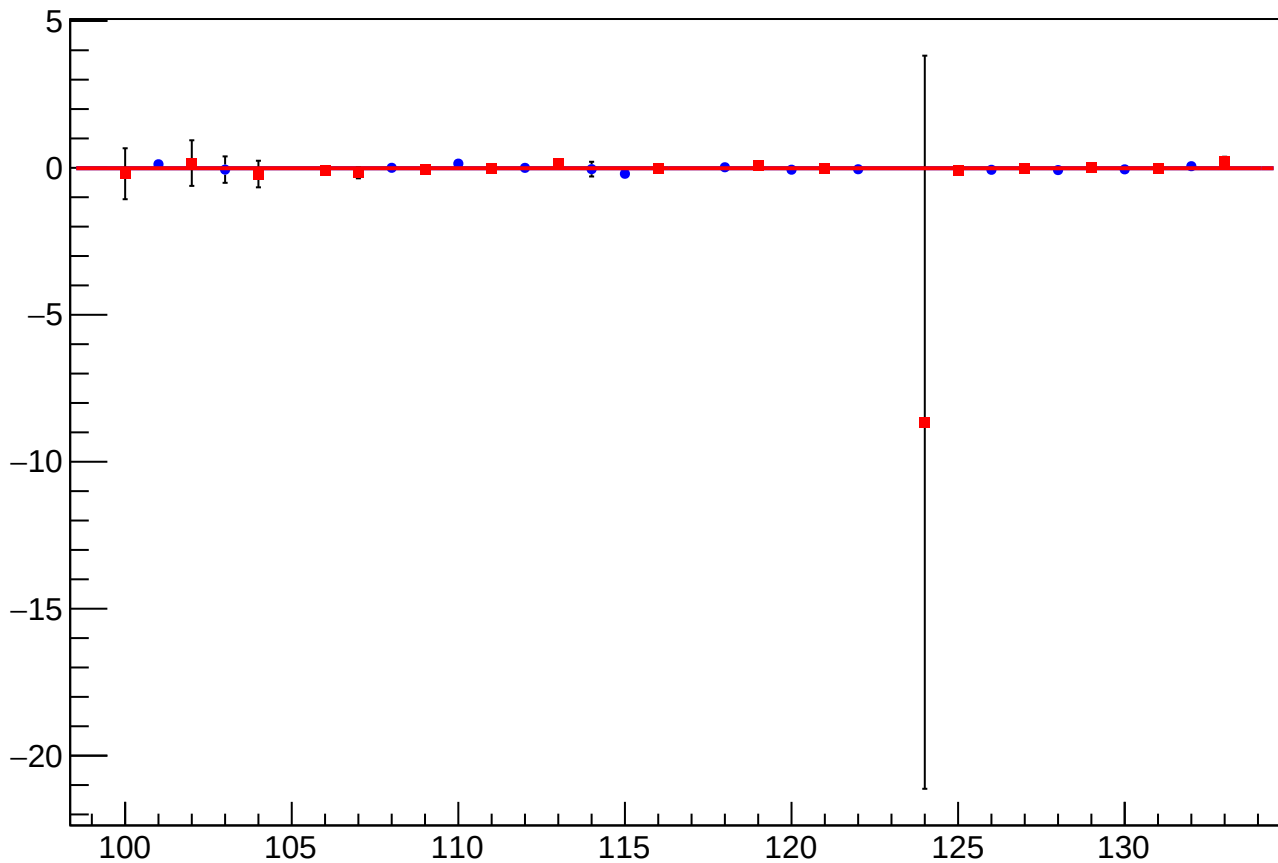
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 5559984.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.013 \pm 0.020$   $\chi^2/\text{NDF}$ : 13.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.014 \pm 0.019$   $\chi^2/\text{NDF}$ : 12.5/16

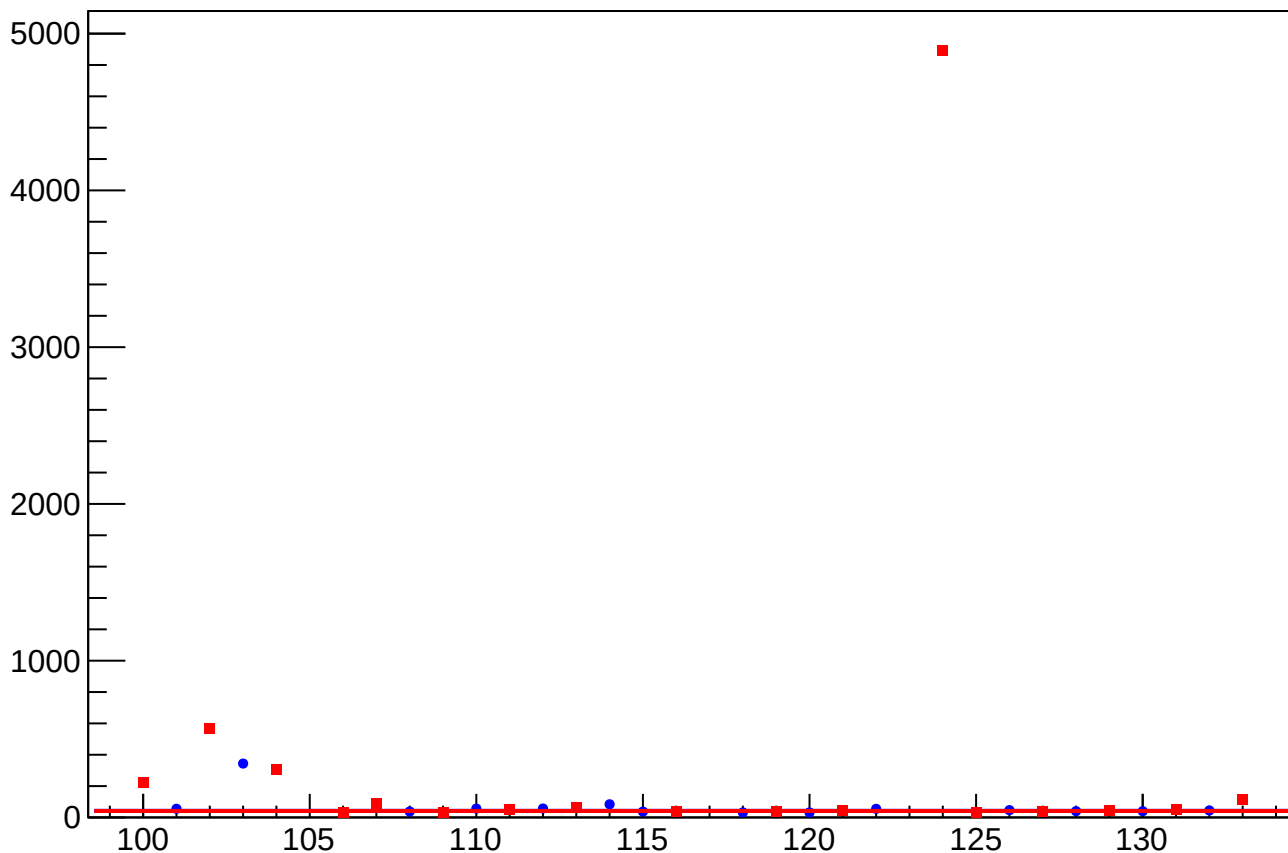
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.014 \pm 0.014$   $\chi^2/\text{NDF}$ : 26.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In:  $42.284 \pm 0.014$   $\chi^2/\text{NDF}: 1356339.3/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $41.238 \pm 0.014$   $\chi^2/\text{NDF}: 2799499.6/16$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

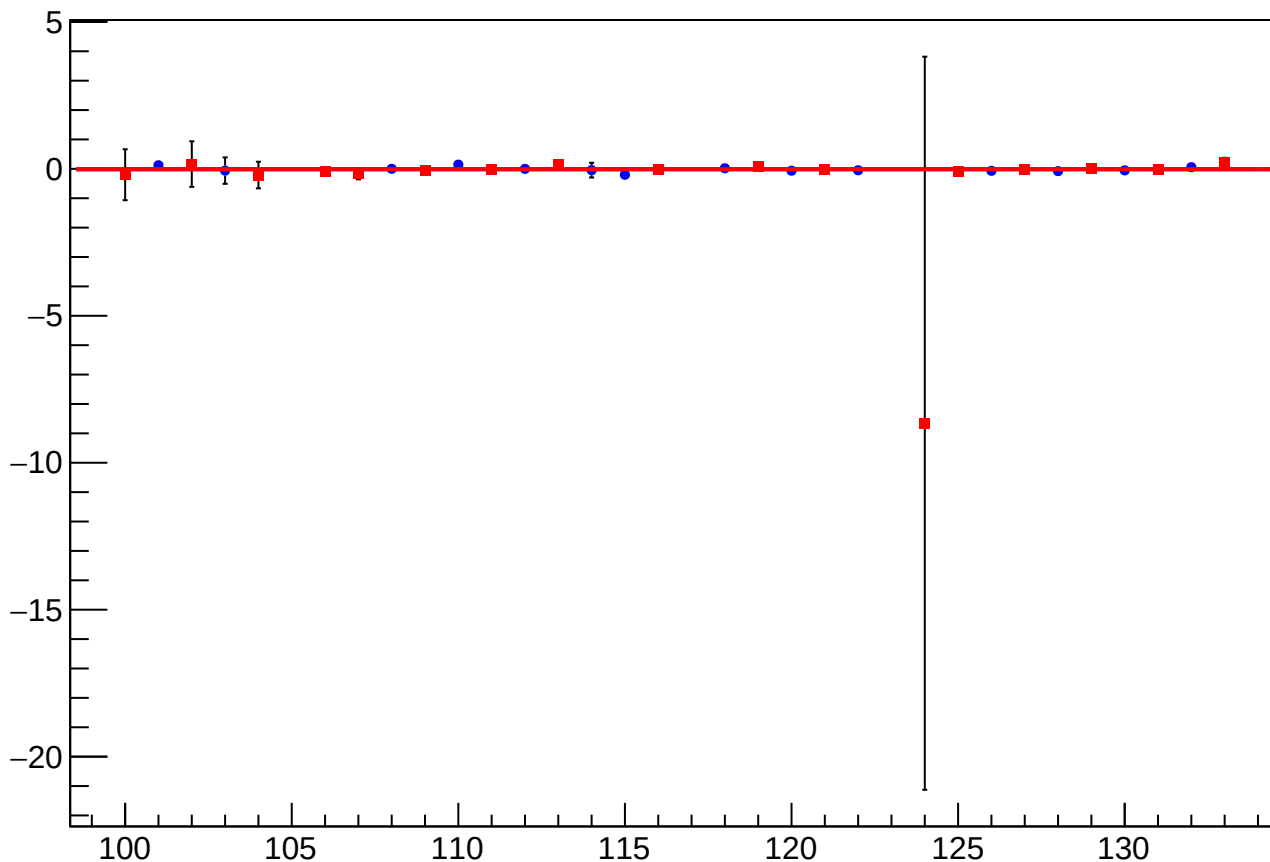
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $41.757 \pm 0.010$   $\chi^2/\text{NDF}: 4158699.1/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$



asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.013 $\pm$ 0.020  $\chi^2$ /NDF: 13.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.014 $\pm$ 0.019  $\chi^2$ /NDF: 12.5/16

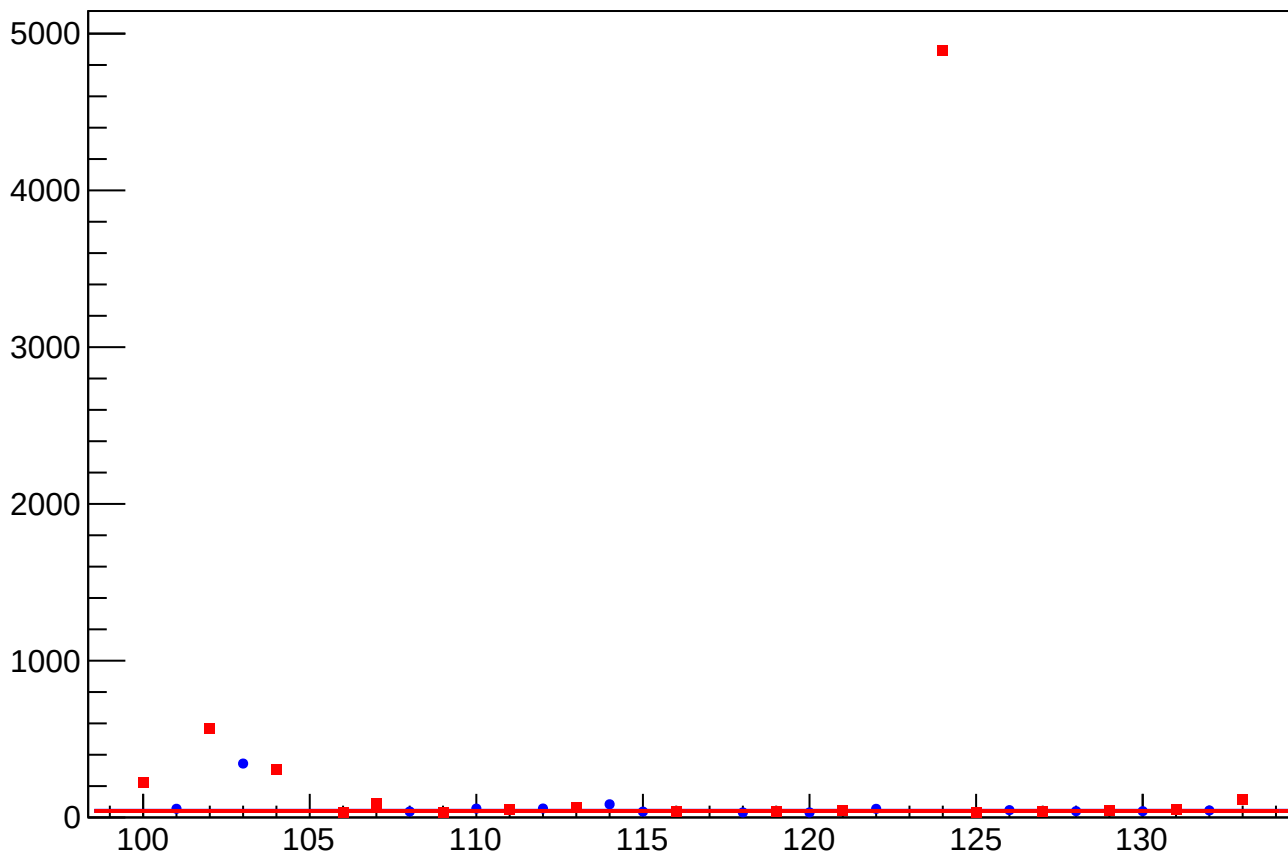
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.014 $\pm$ 0.014  $\chi^2$ /NDF: 26.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 42.284 $\pm$ 0.014  $\chi^2$ /NDF: 1356339.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 41.238 $\pm$ 0.014  $\chi^2$ /NDF: 2799499.6/16

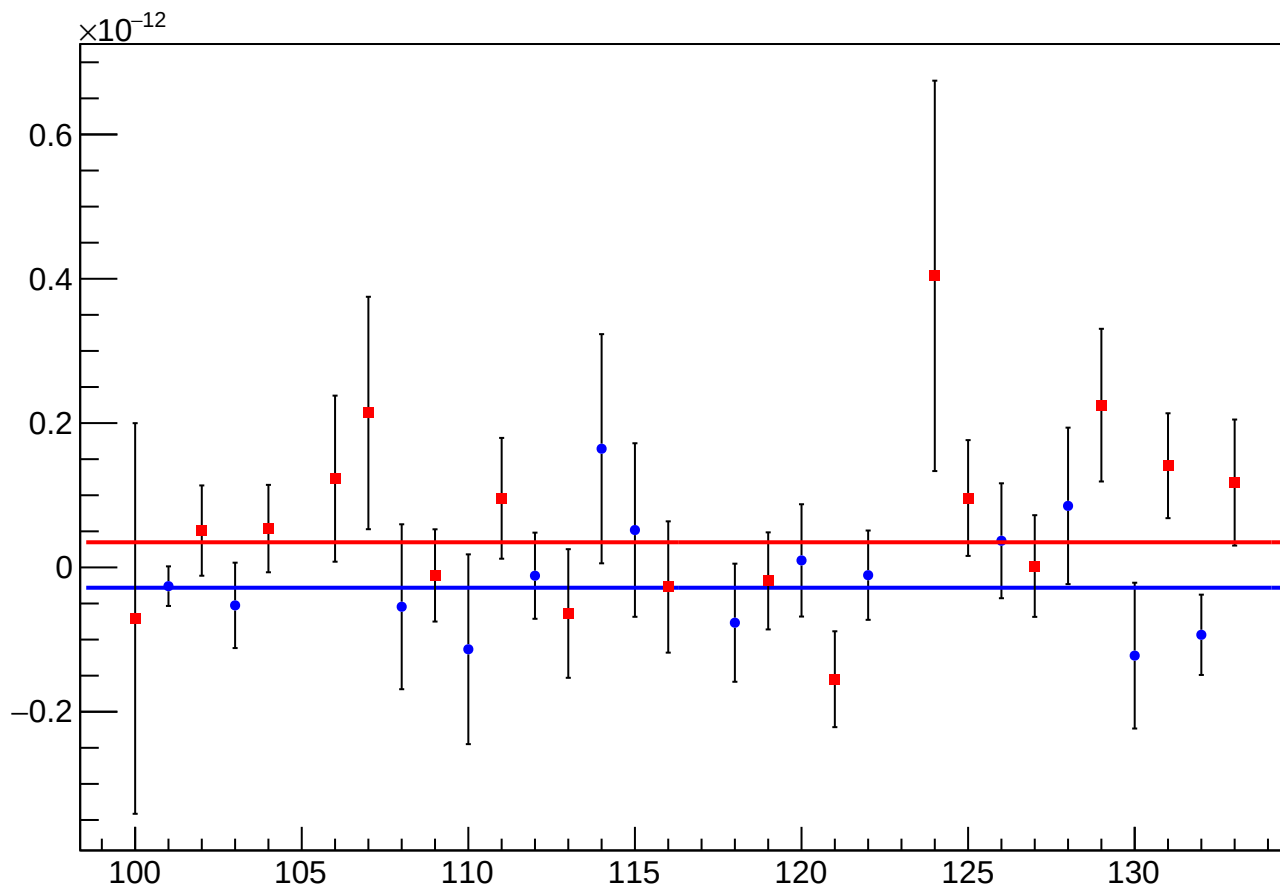
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 41.757 $\pm$ 0.010  $\chi^2$ /NDF: 4158699.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 22.6/16

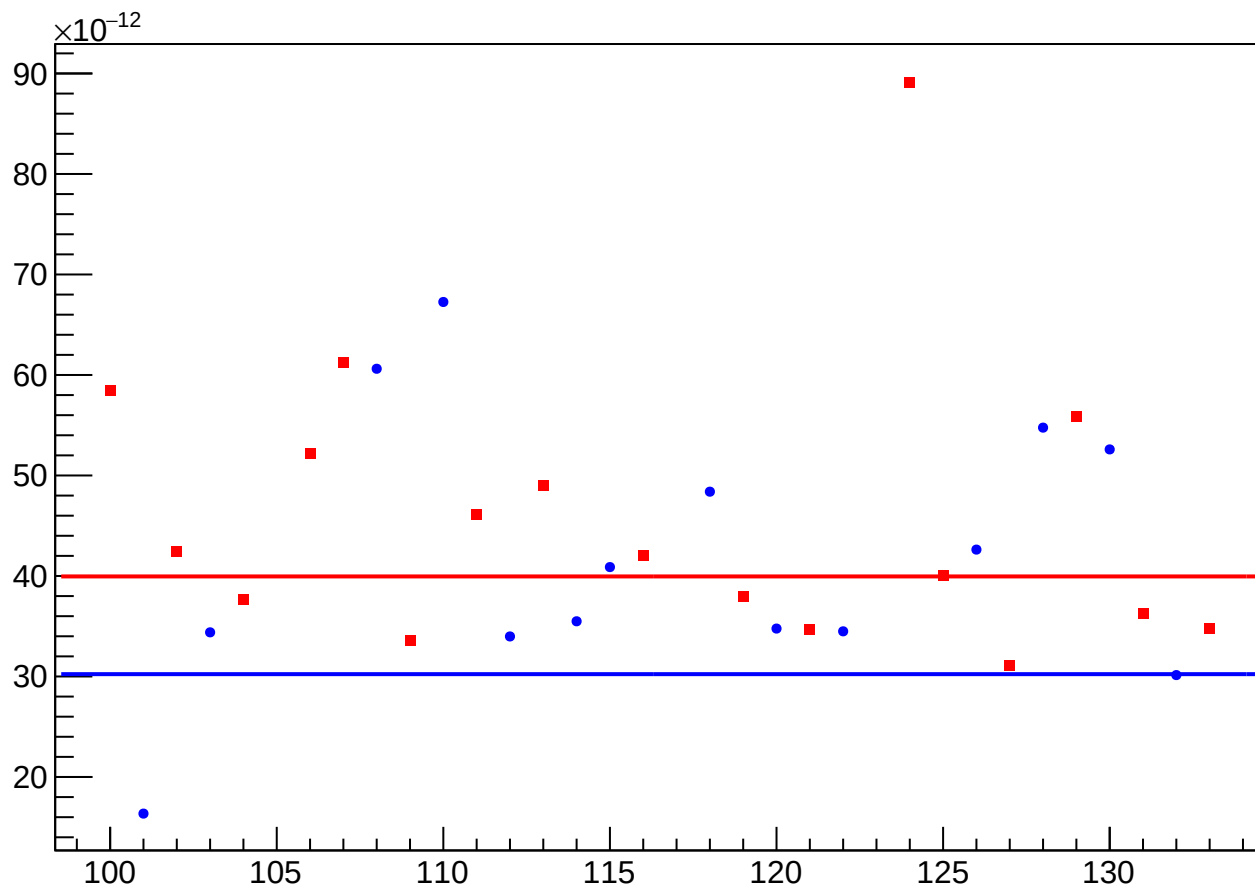
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 35.6/30

- 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  $\chi^2/\text{NDF}$ : 1210695.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 294973.2/16

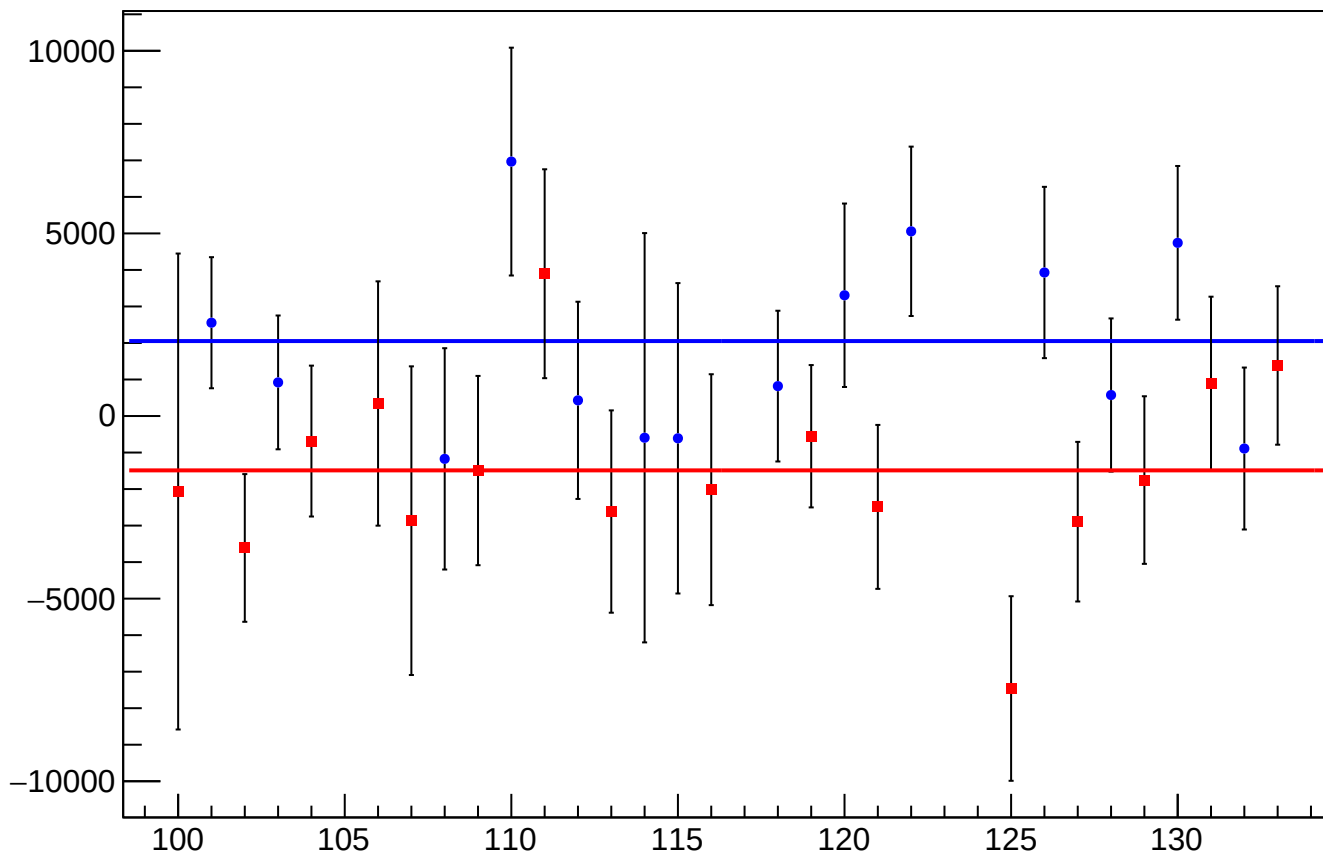
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1778404.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 2052.612 $\pm$ 637.305  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1488.310 $\pm$ 625.371  $\chi^2$ /NDF: 14.6/15

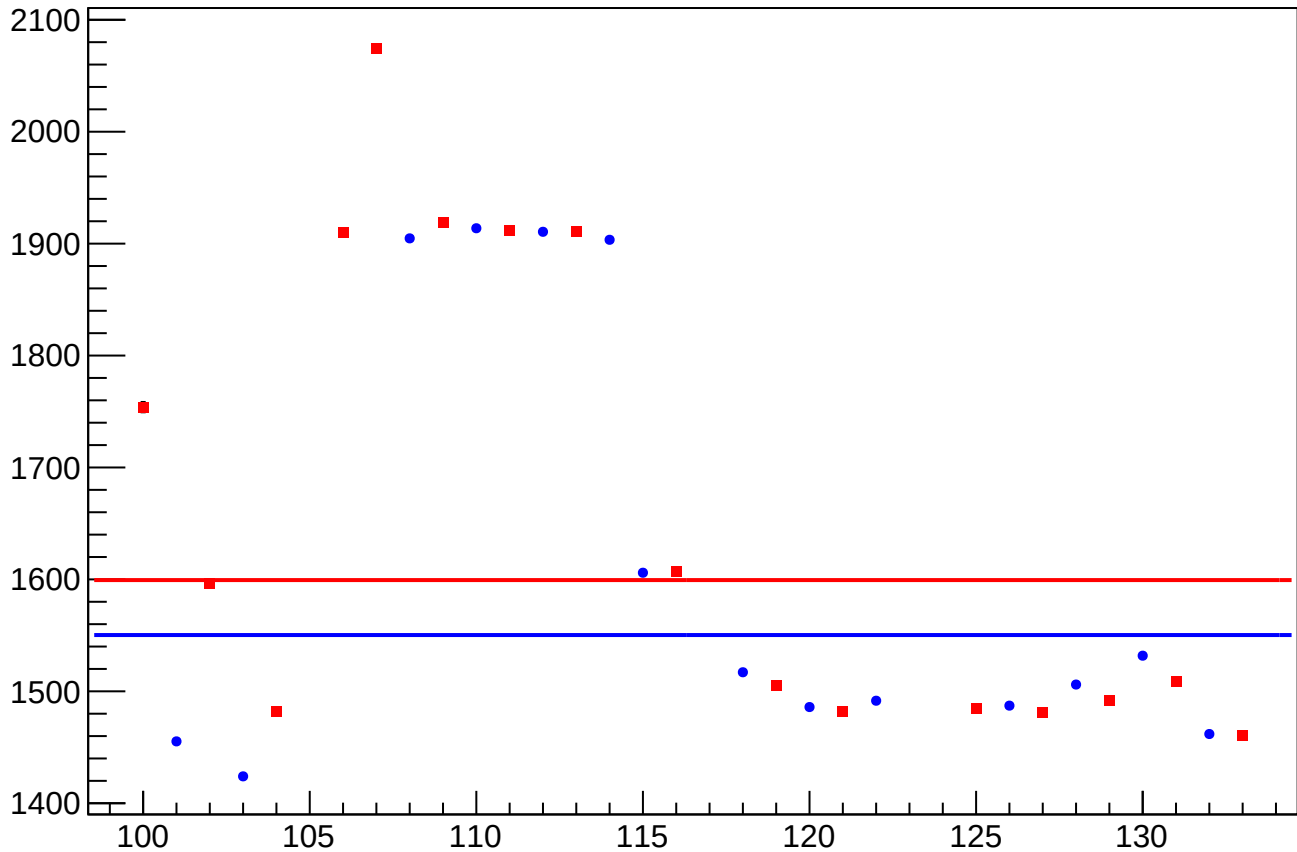
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 248.689 $\pm$ 446.363  $\chi^2$ /NDF: 42.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1550.282 $\pm$ 0.451  $\chi^2$ /NDF: 122313.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1599.389 $\pm$ 0.442  $\chi^2$ /NDF: 165356.1/15

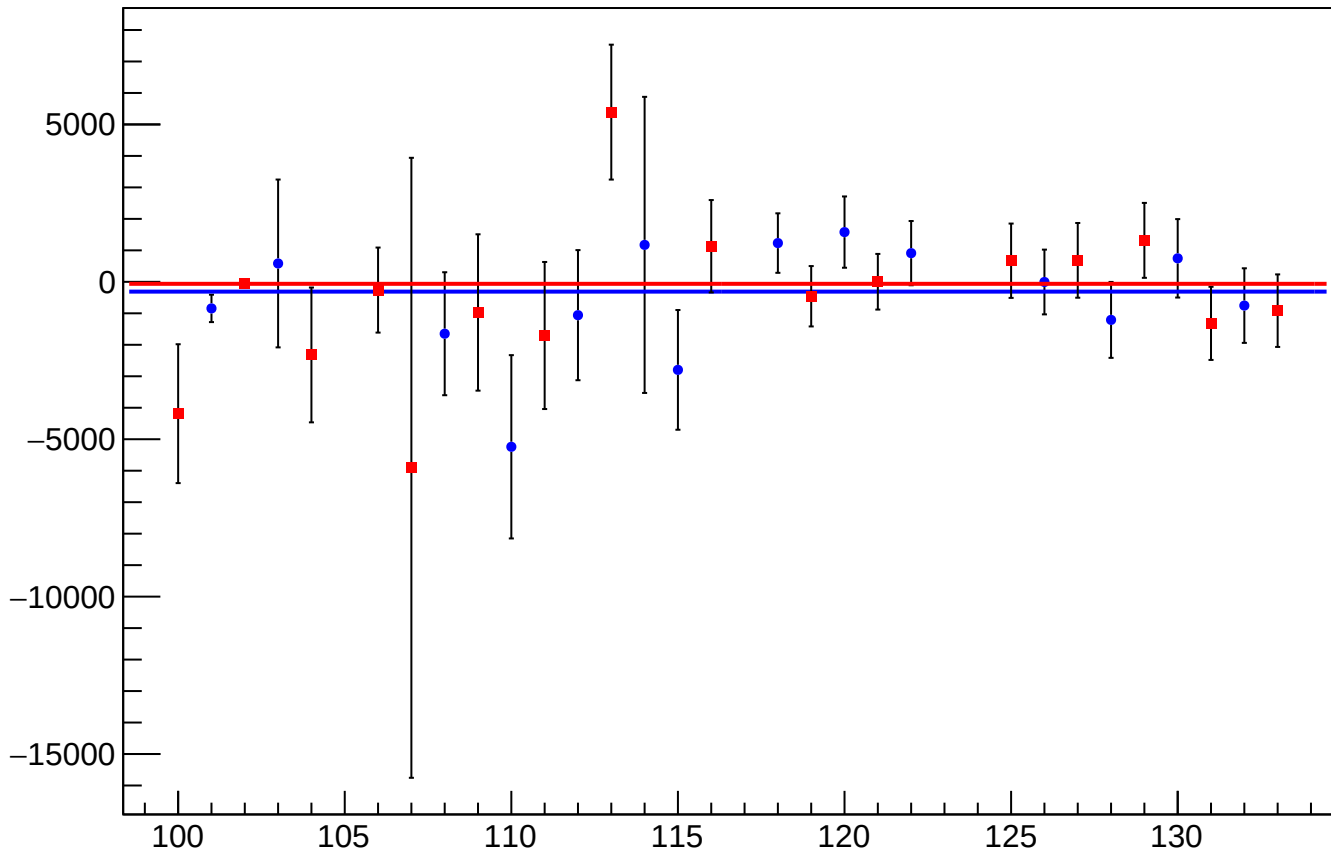
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1575.300 $\pm$ 0.316  $\chi^2$ /NDF: 293719.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_reg\_correction\_mean vs Slug



Right In: -310.862+/-286.288  $\chi^2/\text{NDF}$ : 15.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -63.086+/-128.338  $\chi^2/\text{NDF}$ : 16.8/15

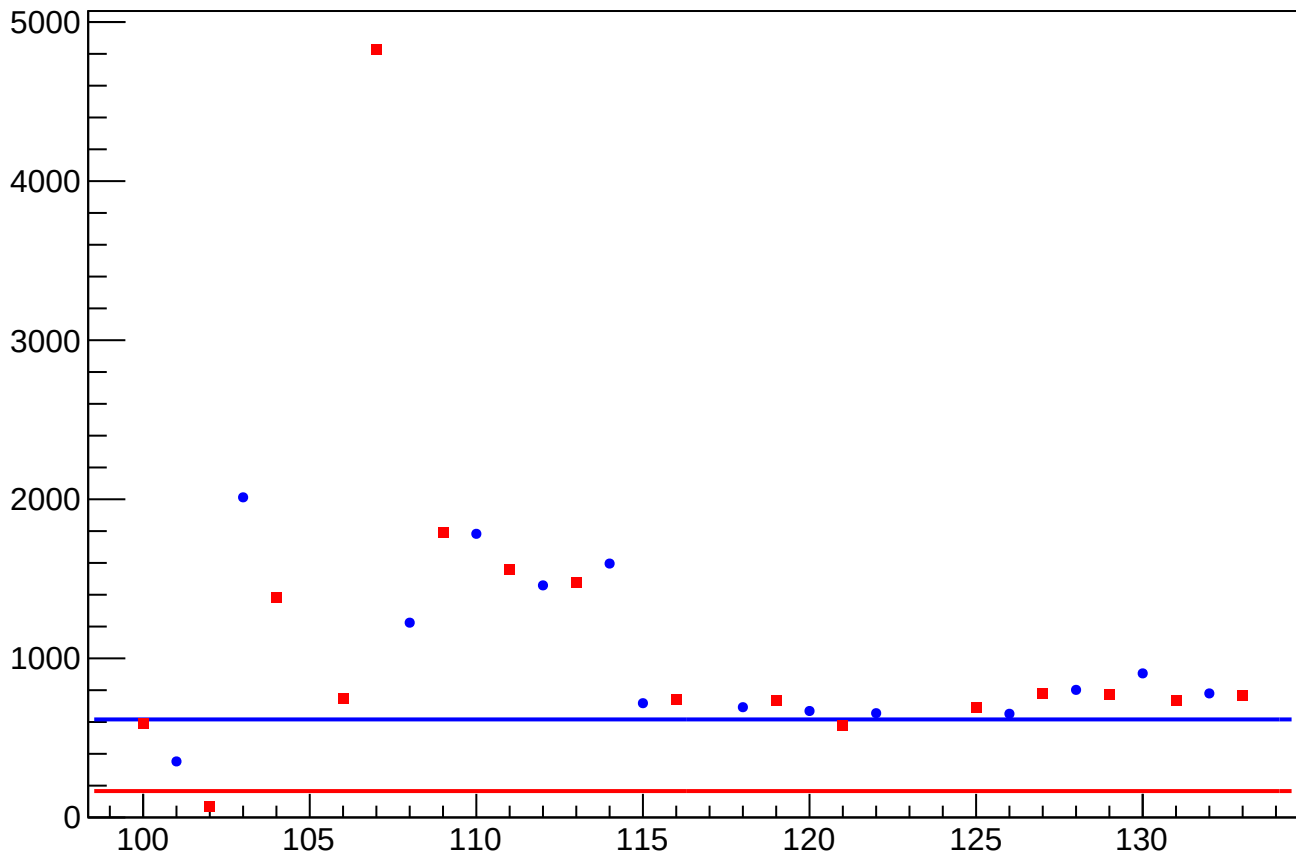
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -104.546+/-117.109  $\chi^2/\text{NDF}$ : 32.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_avg\_reg\_correction\_rms vs Slug



Right In: 616.221+/-0.202  $\chi^2/\text{NDF}$ : 2440299.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 165.833+/-0.091  $\chi^2/\text{NDF}$ : 8753401.1/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

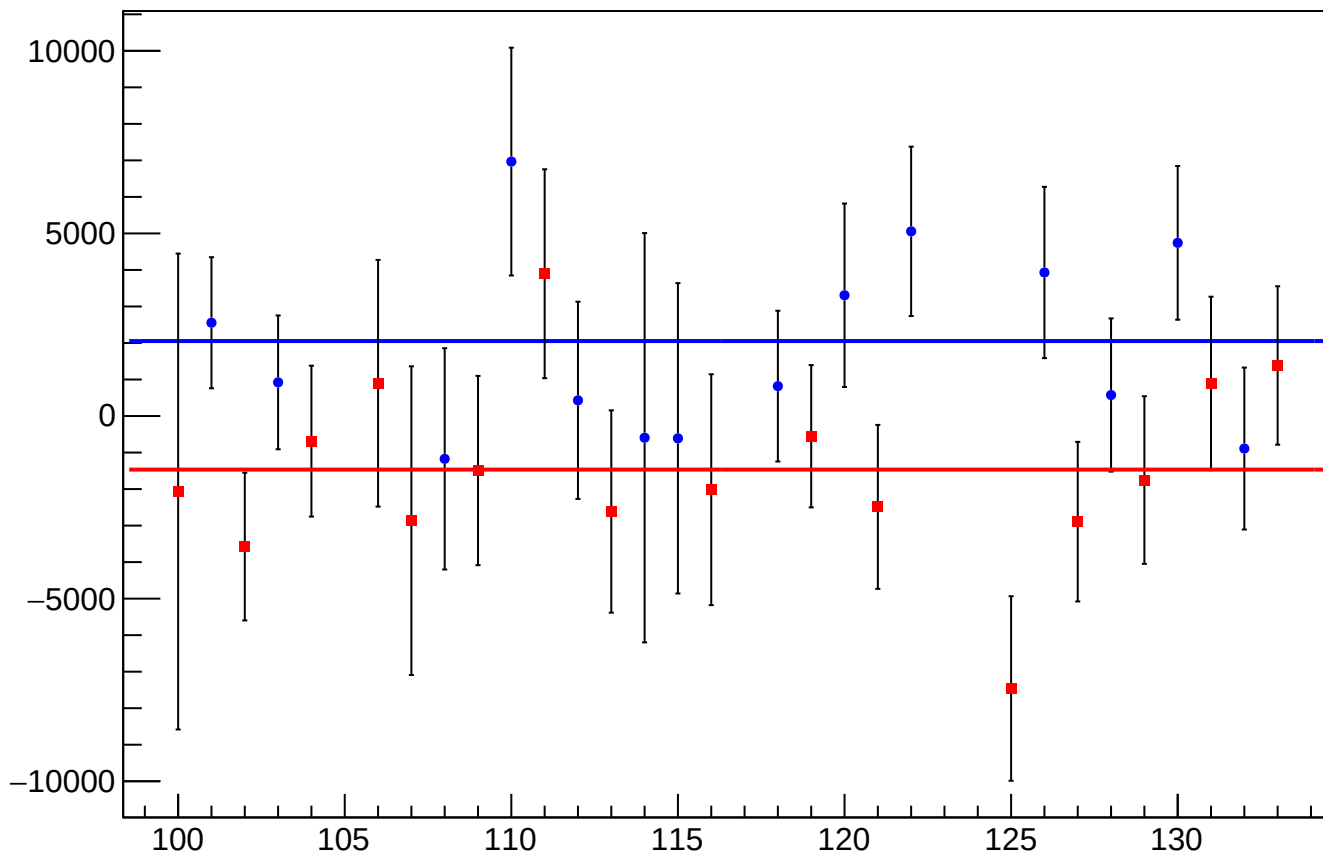
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 241.196+/-0.083  $\chi^2/\text{NDF}$ : 15315316.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 2052.781 $\pm$ 637.305  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1466.775 $\pm$ 625.588  $\chi^2$ /NDF: 14.8/15

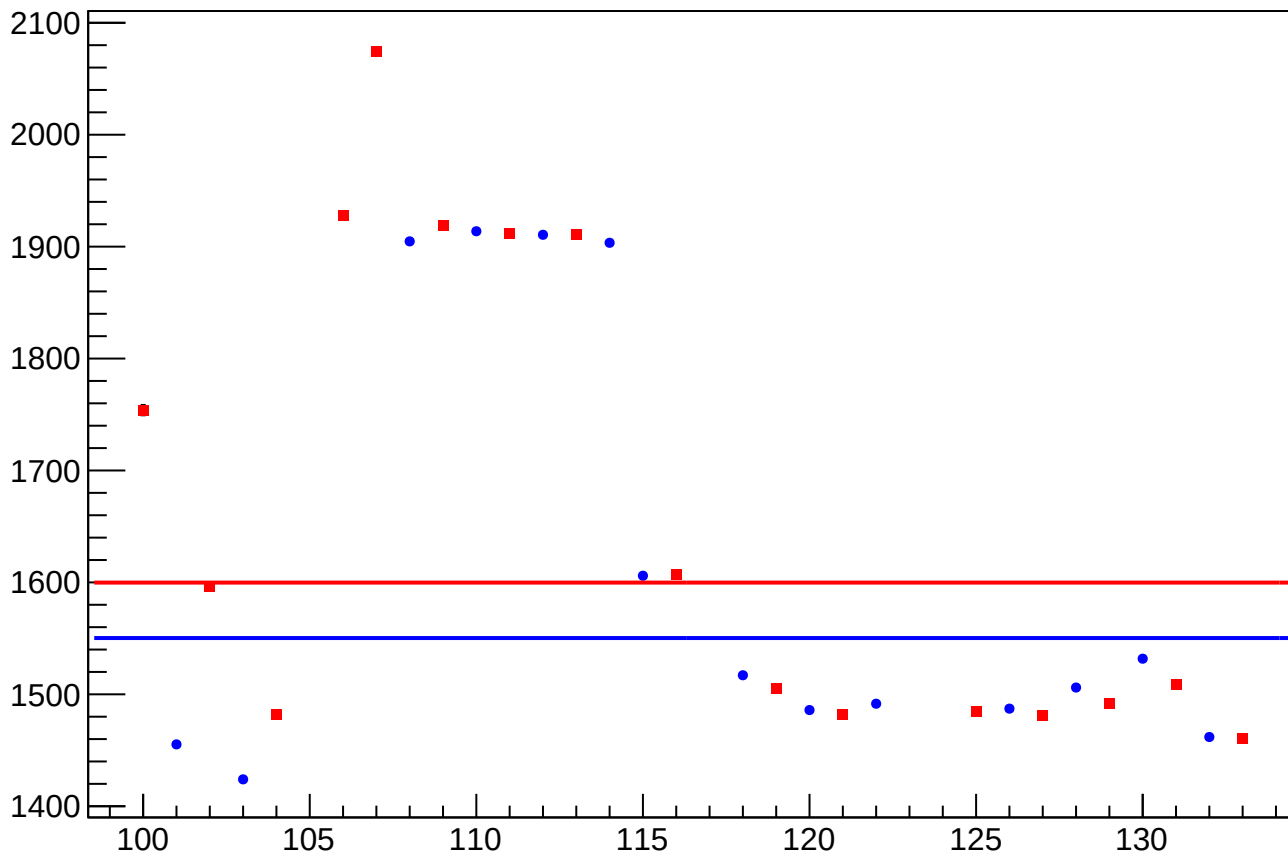
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 260.351 $\pm$ 446.442  $\chi^2$ /NDF: 42.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1550.283+/-0.451  $\chi^2$ /NDF: 122313.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1599.831+/-0.442  $\chi^2$ /NDF: 167081.3/15

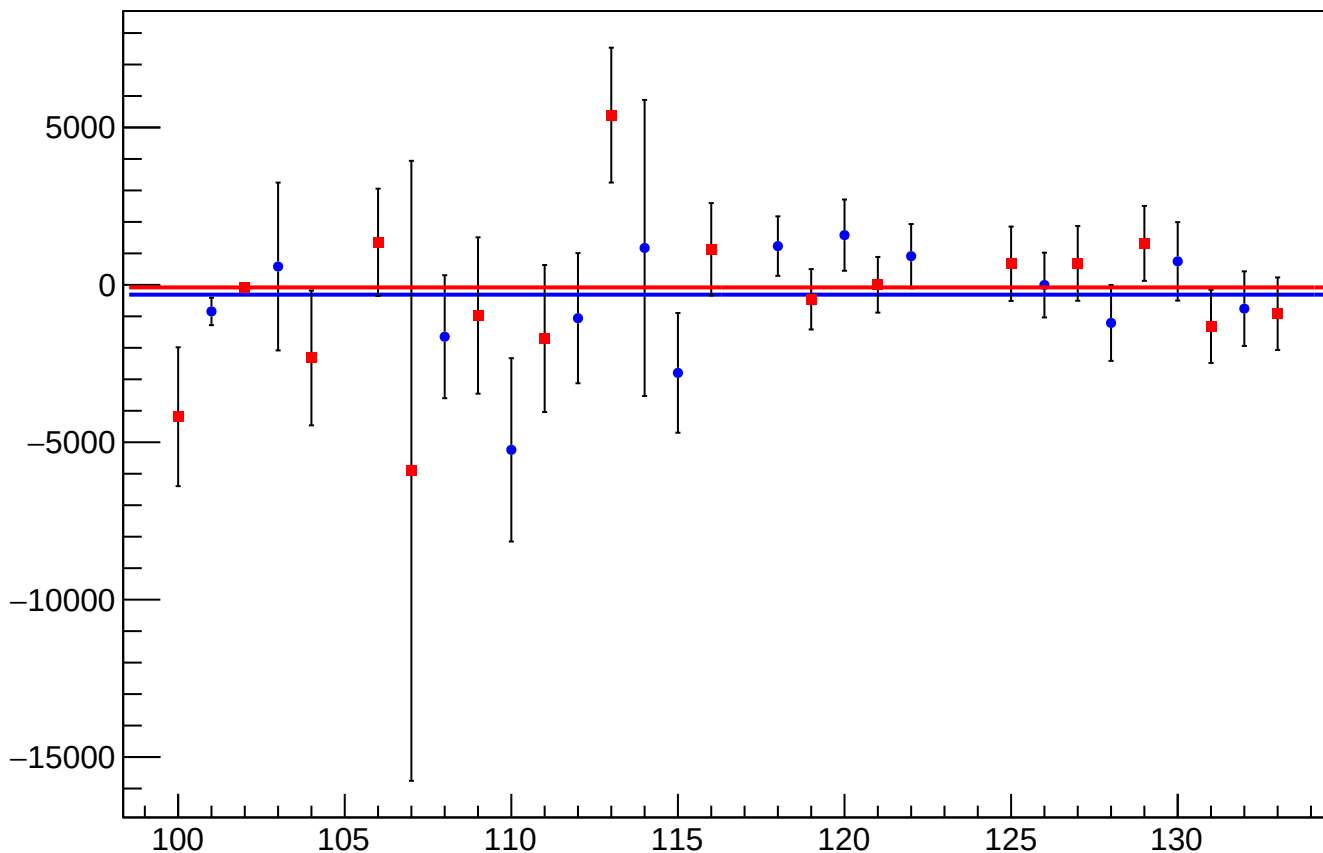
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 1575.516+/-0.316  $\chi^2$ /NDF: 295551.8/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_cor\_correction\_mean vs Slug



Right In: -310.816+/-286.288  $\chi^2/\text{NDF}$ : 15.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -80.591+/-138.945  $\chi^2/\text{NDF}$ : 17.5/15

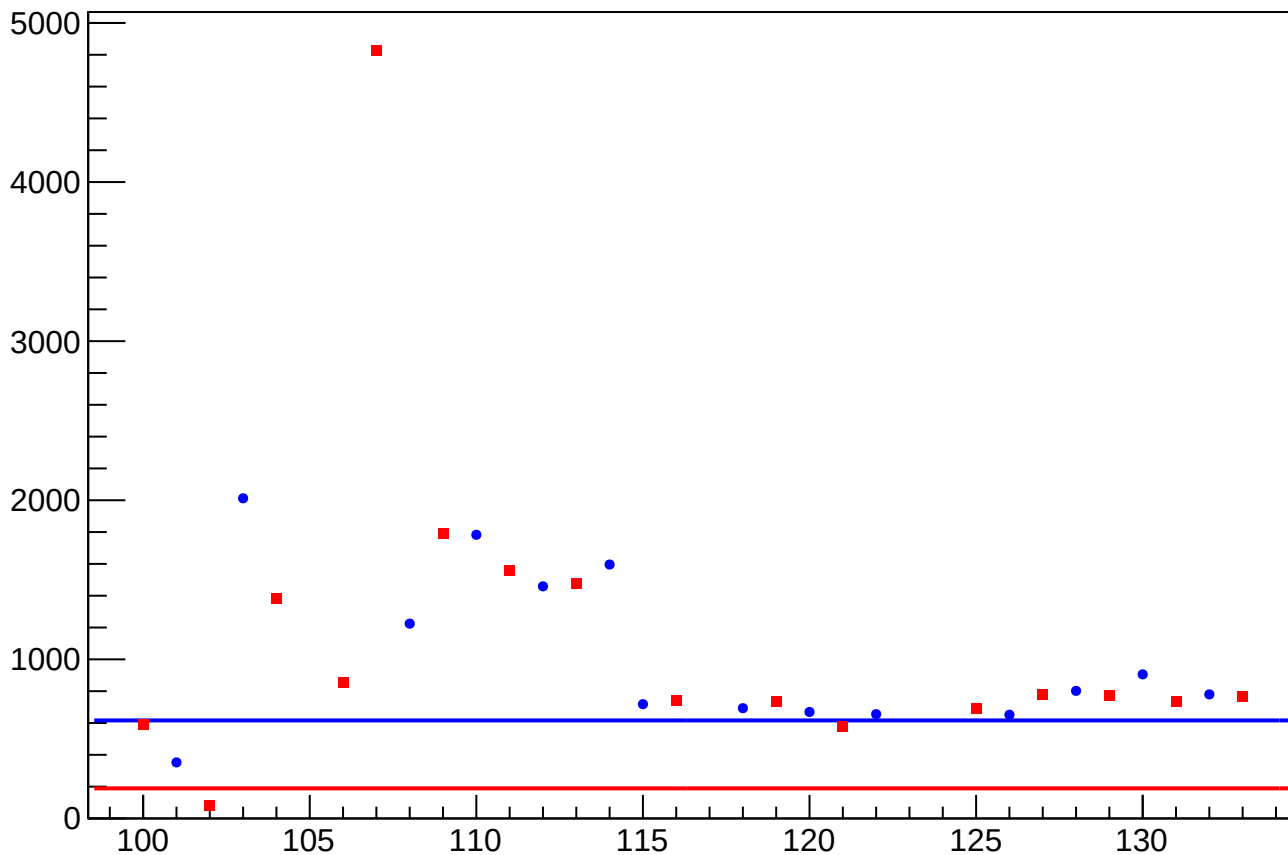
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -124.481+/-125.001  $\chi^2/\text{NDF}$ : 33.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_avg\_cor\_correction\_rms vs Slug



Right In: 616.219+/-0.202     $\chi^2/\text{NDF}$ : 2440324.9/13

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 189.005+/-0.098     $\chi^2/\text{NDF}$ : 8328963.4/15

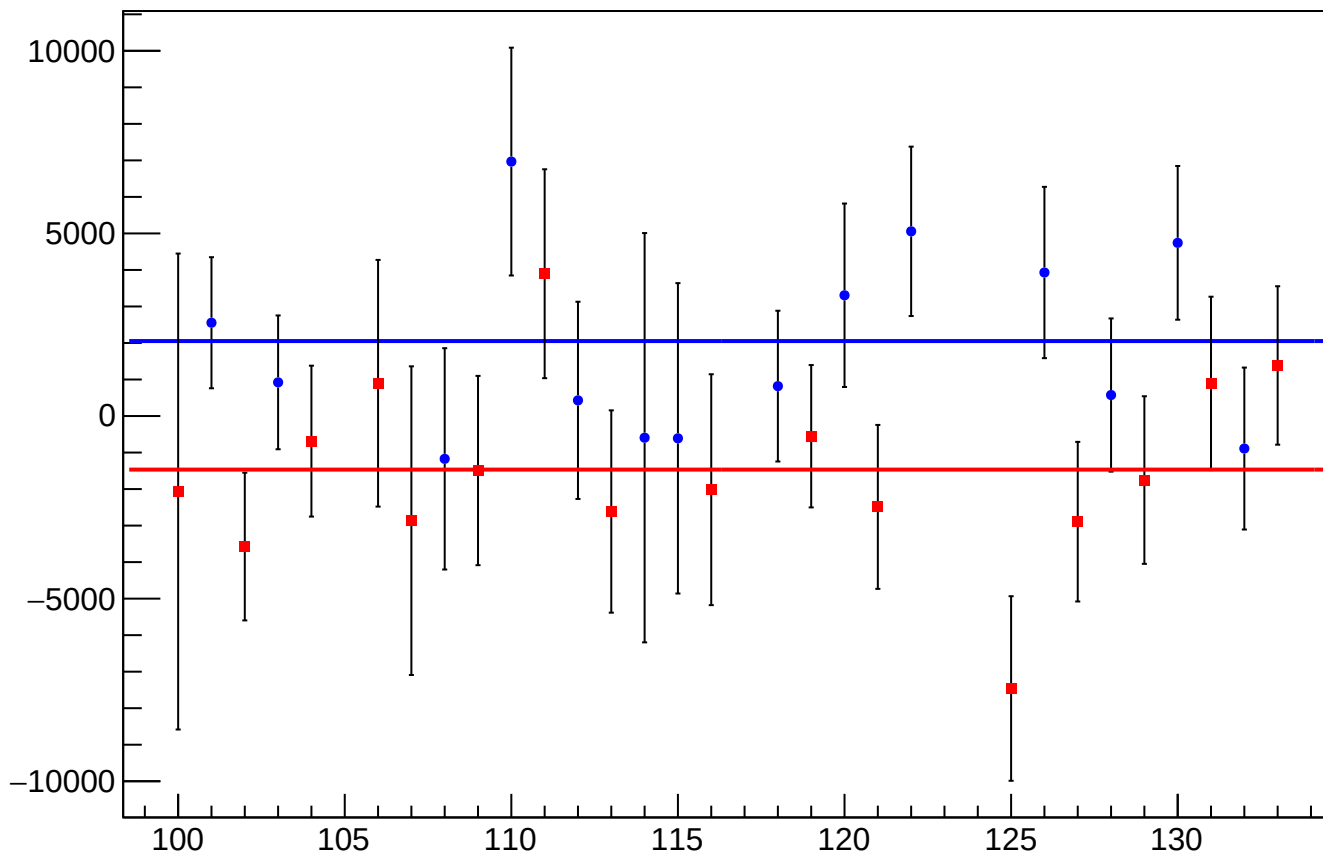
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 270.449+/-0.088     $\chi^2/\text{NDF}$ : 14373866.8/29

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 2052.781 $\pm$ 637.305  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1466.775 $\pm$ 625.588  $\chi^2/\text{NDF}$ : 14.8/15

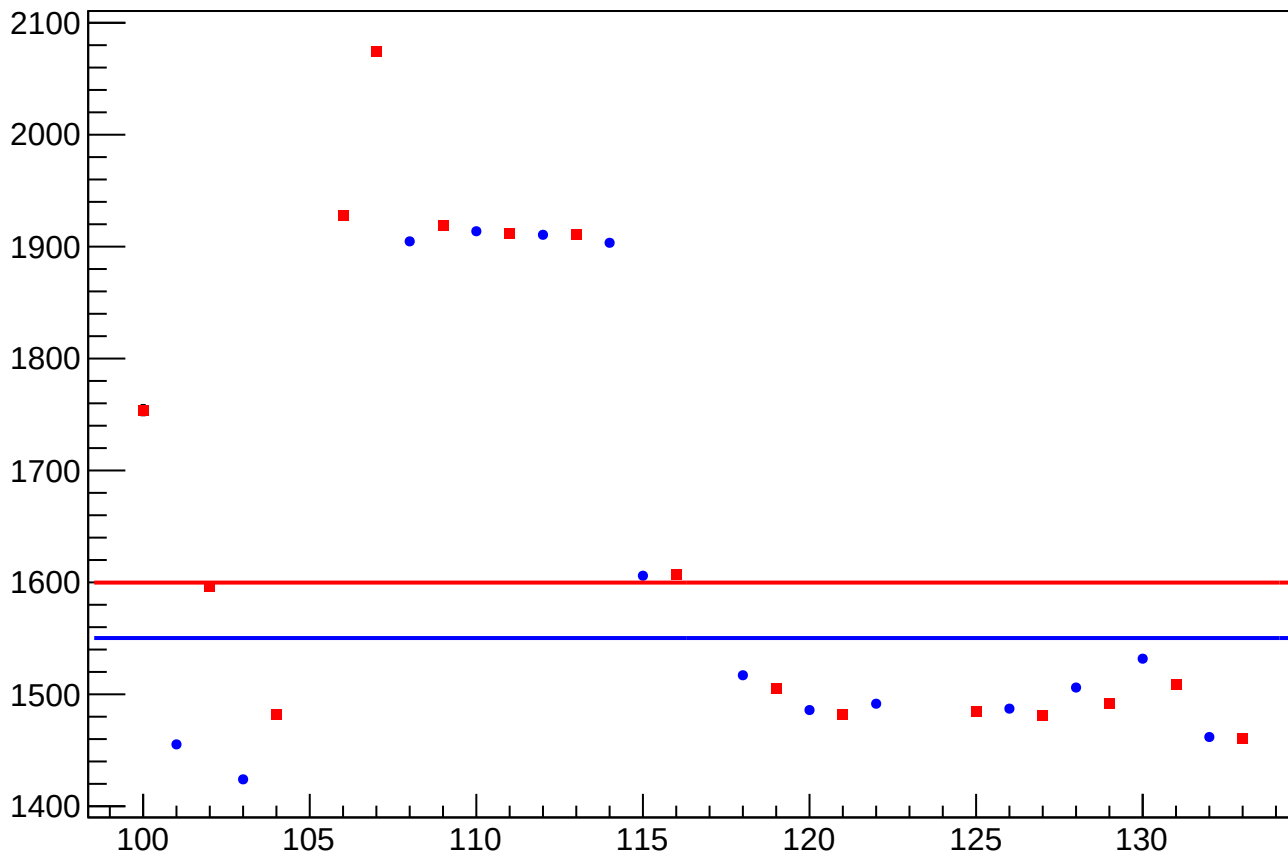
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 260.351 $\pm$ 446.442  $\chi^2/\text{NDF}$ : 42.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1550.283 $\pm$ 0.451  $\chi^2$ /NDF: 122313.9/13

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

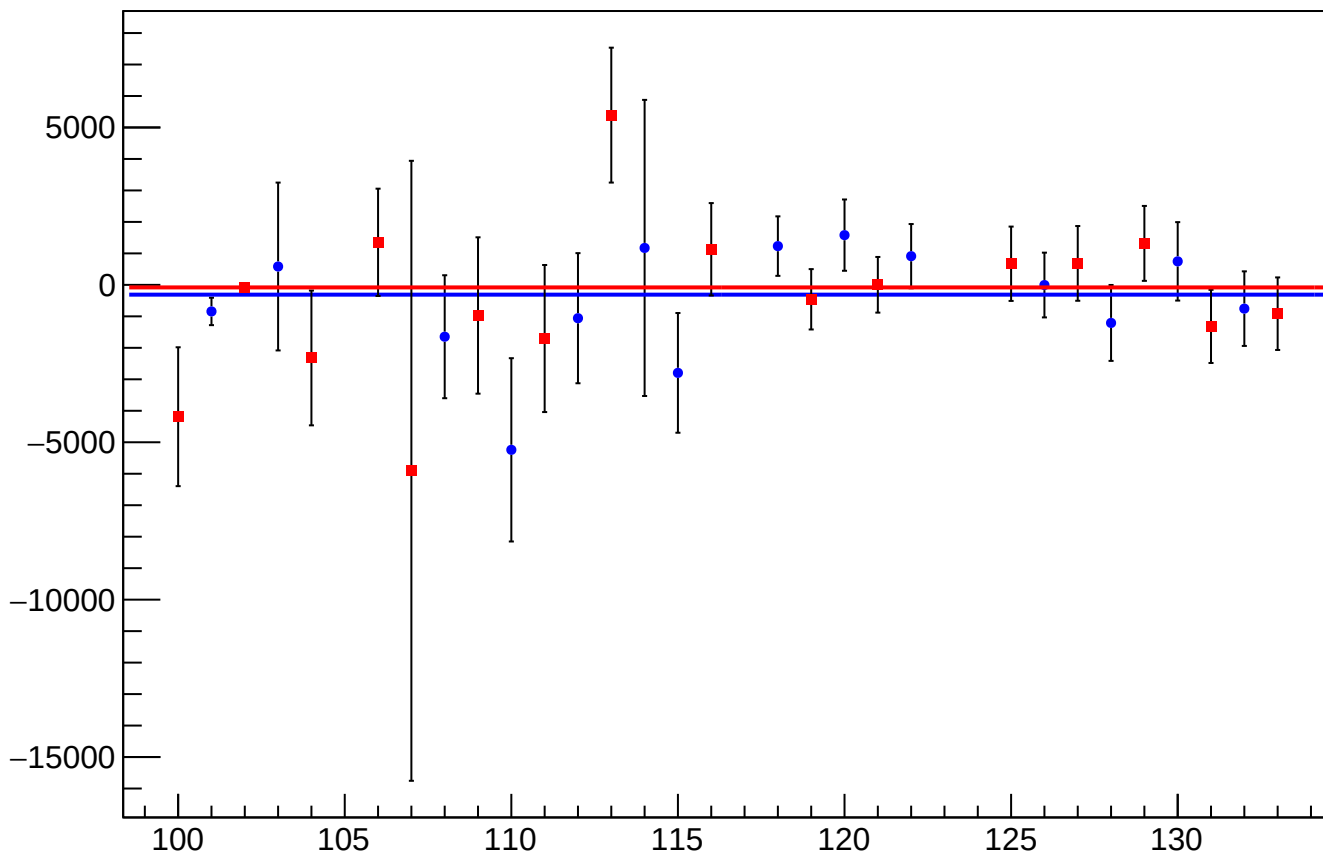
Right Out: 1599.831 $\pm$ 0.442  $\chi^2$ /NDF: 167081.3/15

All: 1575.516 $\pm$ 0.316  $\chi^2$ /NDF: 295551.8/29

- 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\_usl\_atl1\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -310.816+/-286.288  $\chi^2/\text{NDF}$ : 15.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -80.591+/-138.945  $\chi^2/\text{NDF}$ : 17.5/15

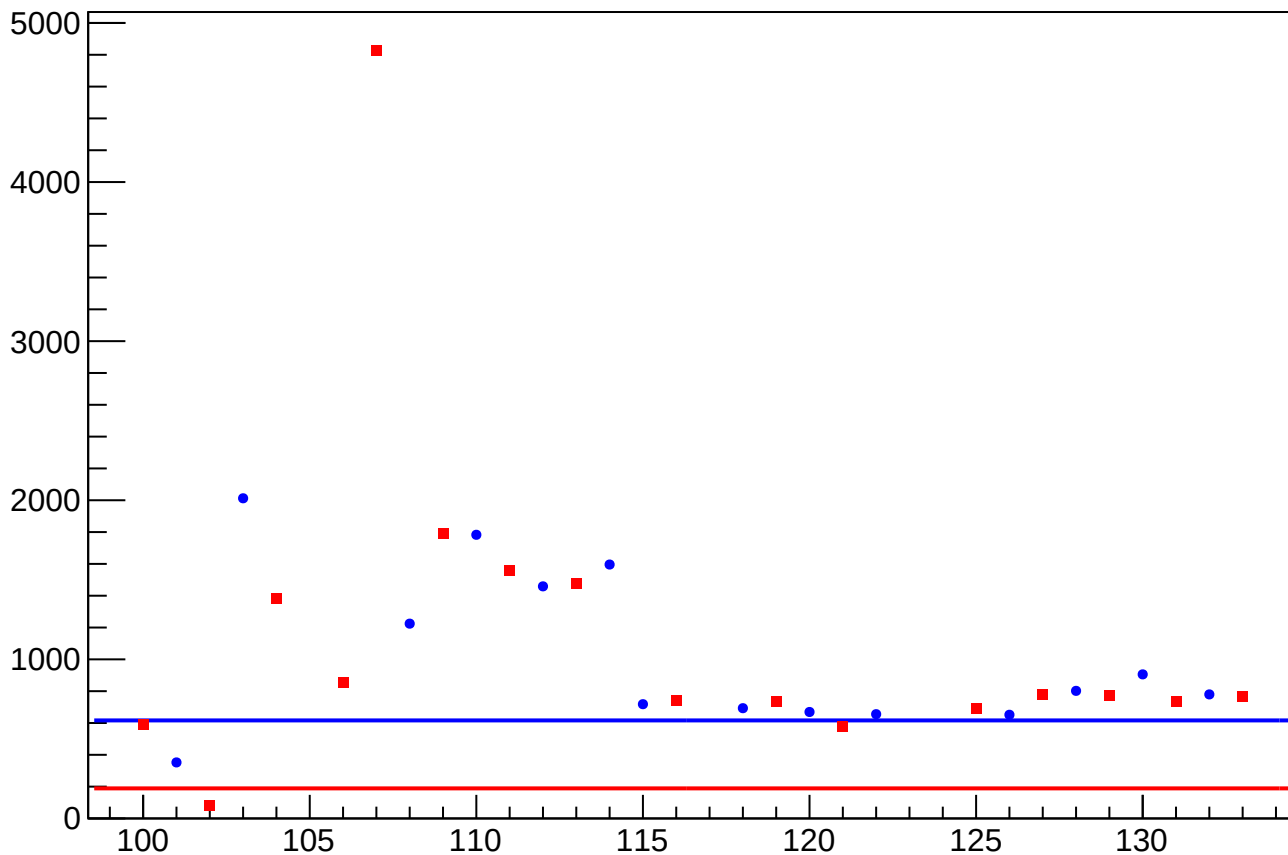
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -124.481+/-125.001  $\chi^2/\text{NDF}$ : 33.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 616.219+/-0.202  $\chi^2/\text{NDF}$ : 2440324.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 189.005+/-0.098  $\chi^2/\text{NDF}$ : 8328963.4/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

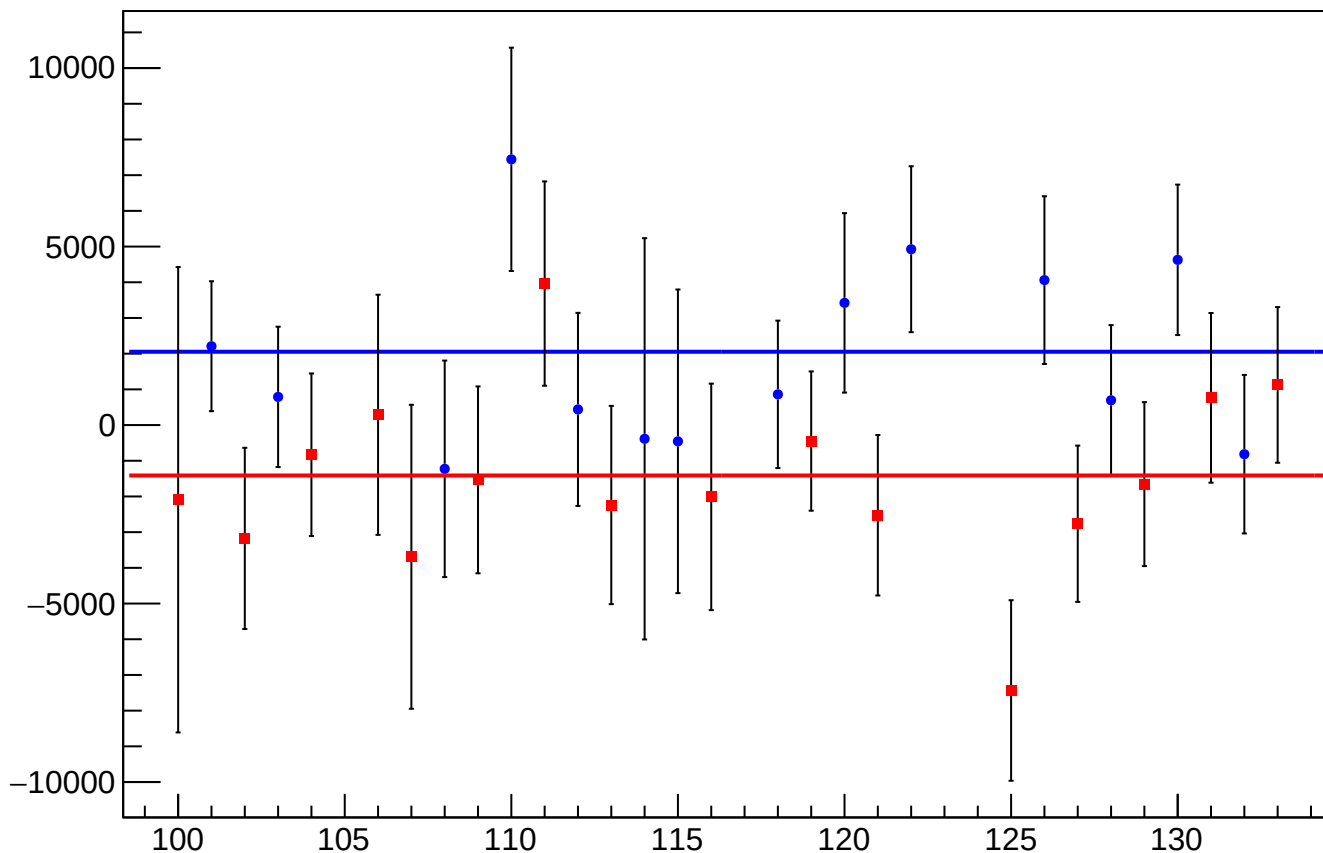
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 270.449+/-0.088  $\chi^2/\text{NDF}$ : 14373866.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 2053.948 $\pm$ 644.385  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1412.042 $\pm$ 643.483  $\chi^2$ /NDF: 13.5/15

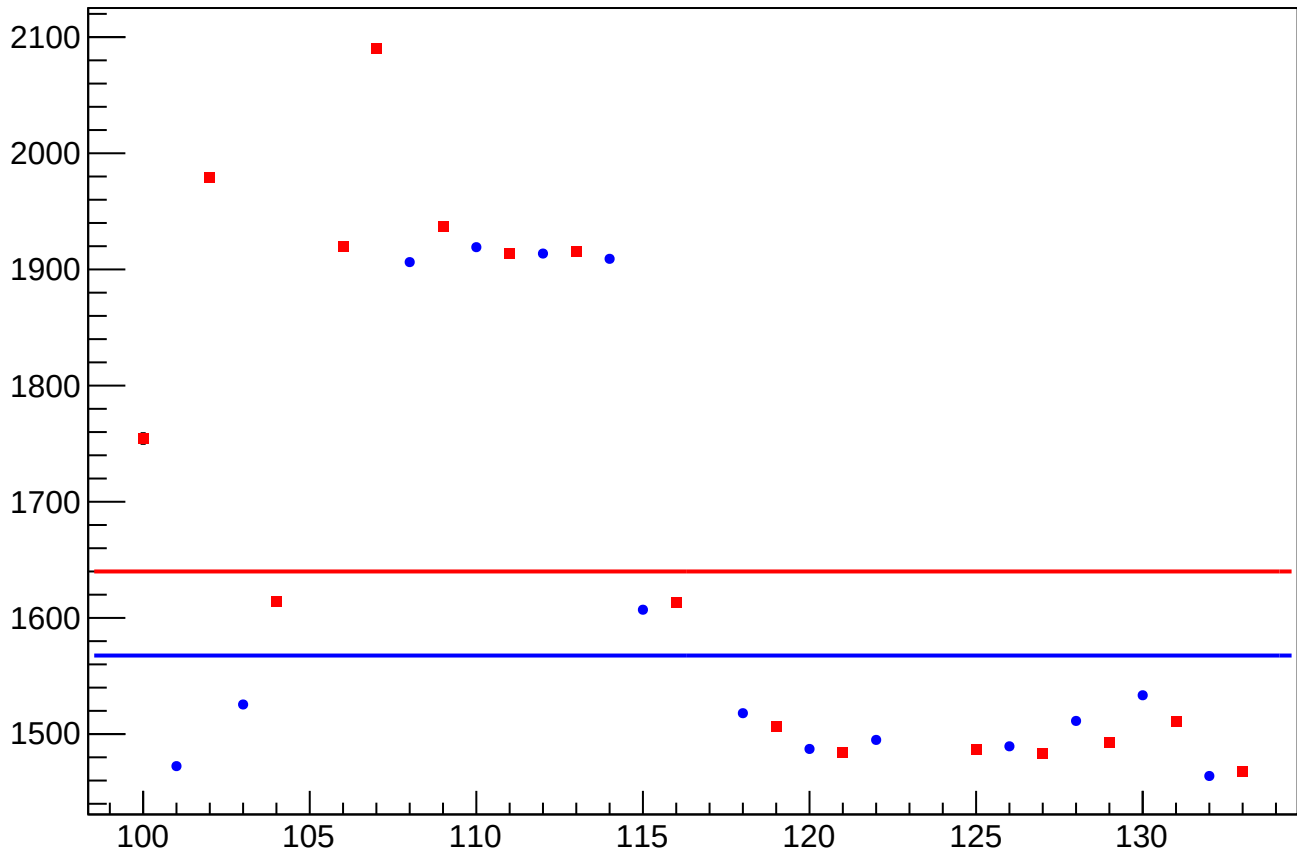
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 318.528 $\pm$ 455.330  $\chi^2$ /NDF: 39.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1567.621+/-0.456  $\chi^2/\text{NDF}$ : 110591.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1639.992+/-0.455  $\chi^2/\text{NDF}$ : 199966.6/15

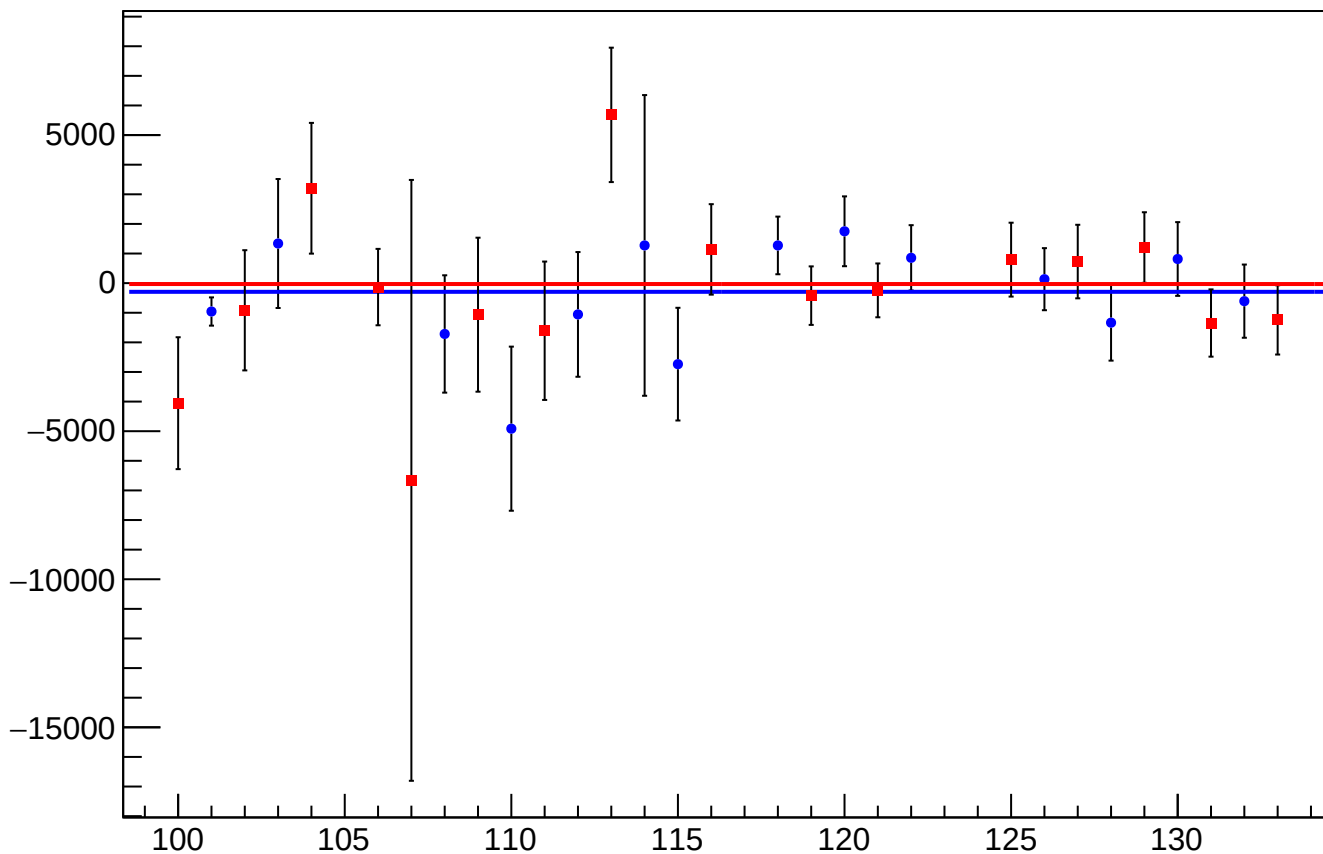
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1603.857+/-0.322  $\chi^2/\text{NDF}$ : 323190.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_dit\_correction\_mean vs Slug



Right In: -293.212+/-302.209  $\chi^2$ /NDF: 16.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -30.132+/-354.655  $\chi^2$ /NDF: 18.1/15

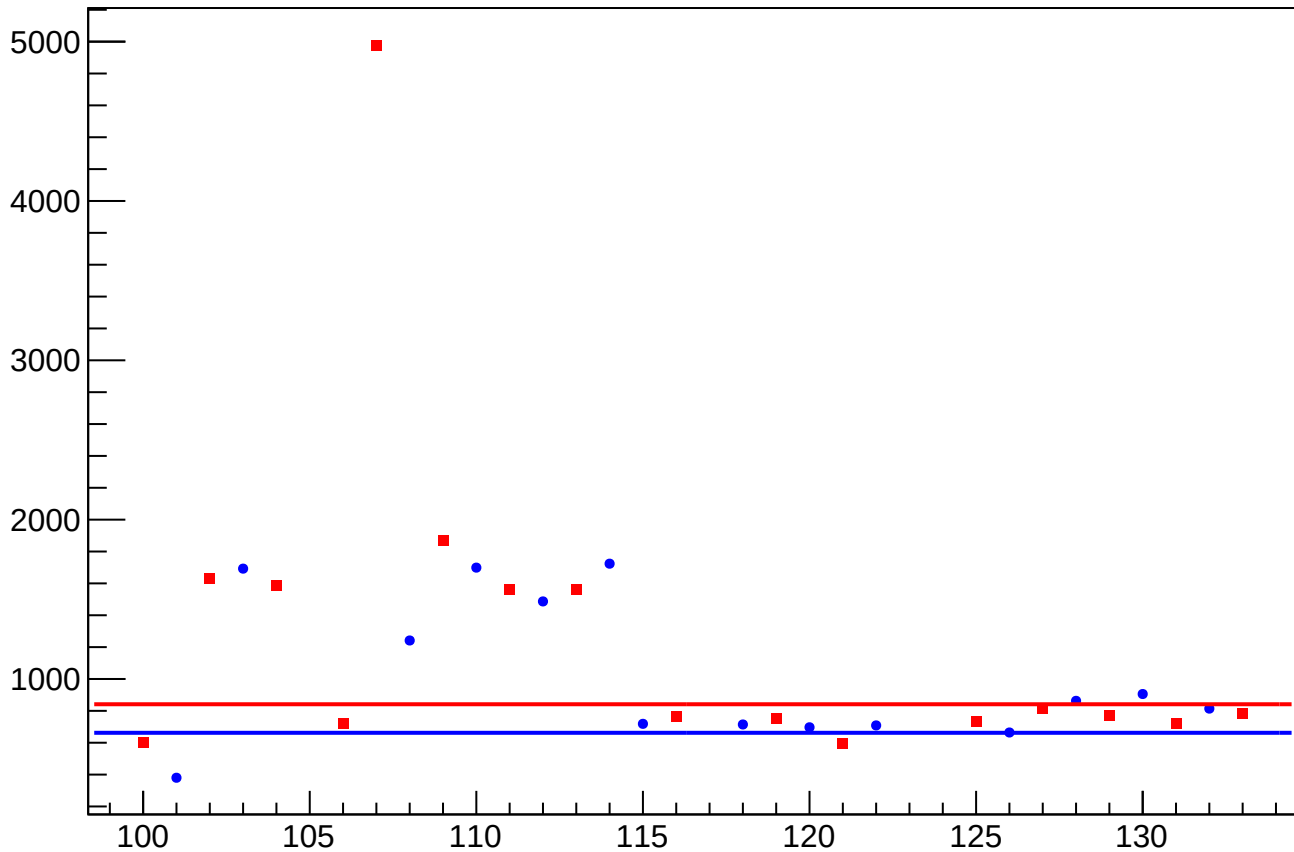
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -182.544+/-230.024  $\chi^2$ /NDF: 34.4/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_avg\_dit\_correction\_rms vs Slug



Right In: 662.311+/-0.214     $\chi^2/\text{NDF}$ : 2160566.3/13

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 841.464+/-0.251     $\chi^2/\text{NDF}$ : 1821403.0/15

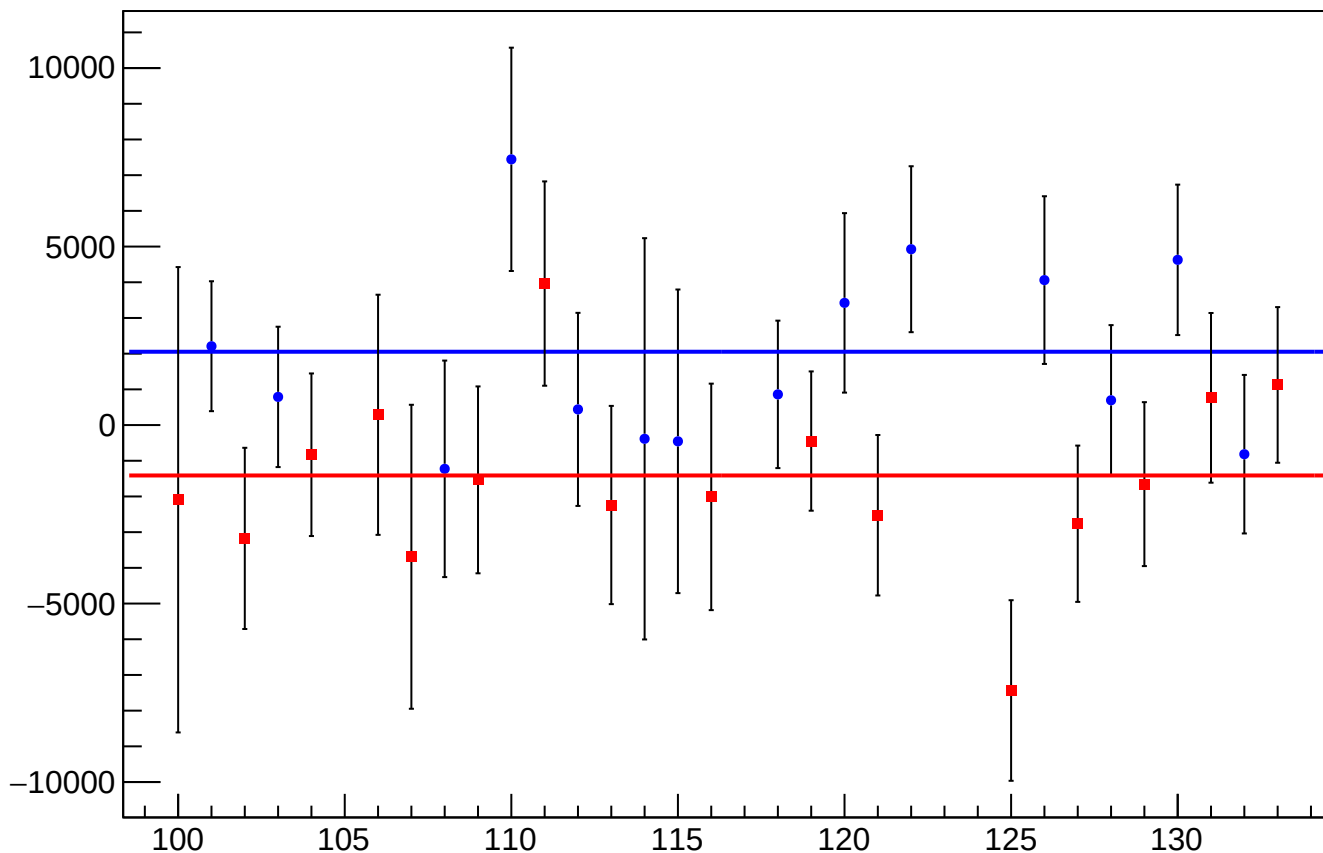
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 737.674+/-0.163     $\chi^2/\text{NDF}$ : 4277632.8/29

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 2053.946+/-644.384  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1412.039+/-643.483  $\chi^2/\text{NDF}$ : 13.5/15

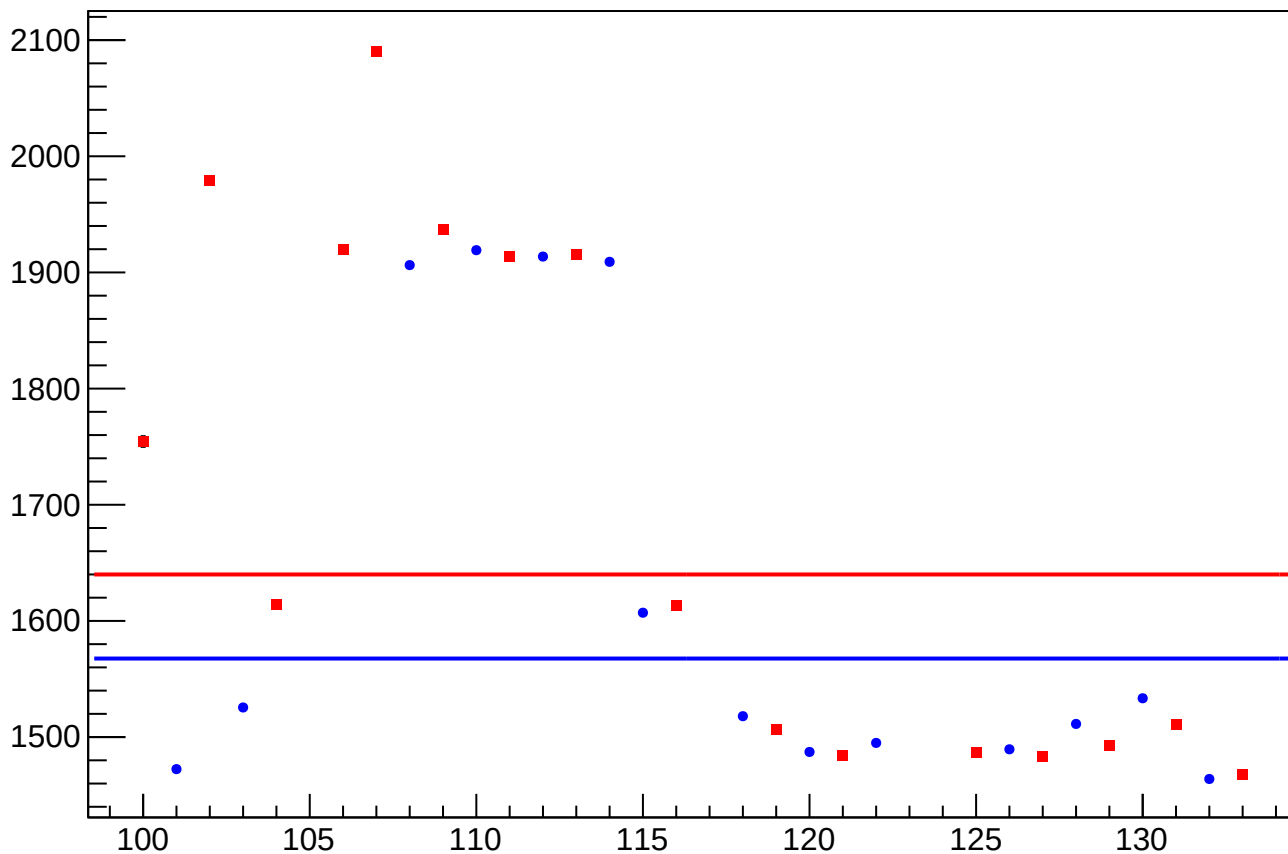
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 318.529+/-455.330  $\chi^2/\text{NDF}$ : 39.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1567.620 $\pm$ 0.456  $\chi^2$ /NDF: 110592.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1639.992 $\pm$ 0.455  $\chi^2$ /NDF: 199966.5/15

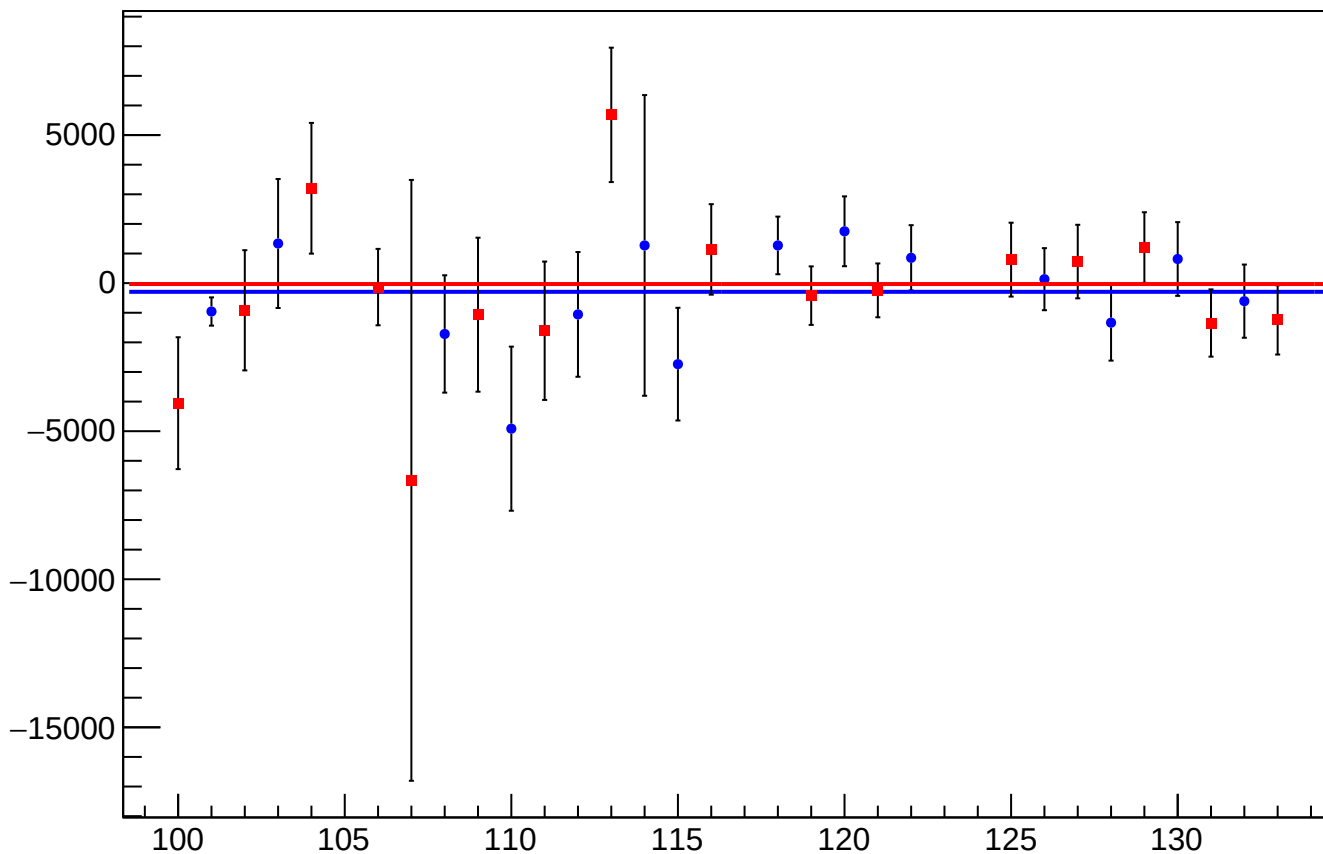
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1603.857 $\pm$ 0.322  $\chi^2$ /NDF: 323190.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -293.211+/-302.209  $\chi^2$ /NDF: 16.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -30.133+/-354.655  $\chi^2$ /NDF: 18.1/15

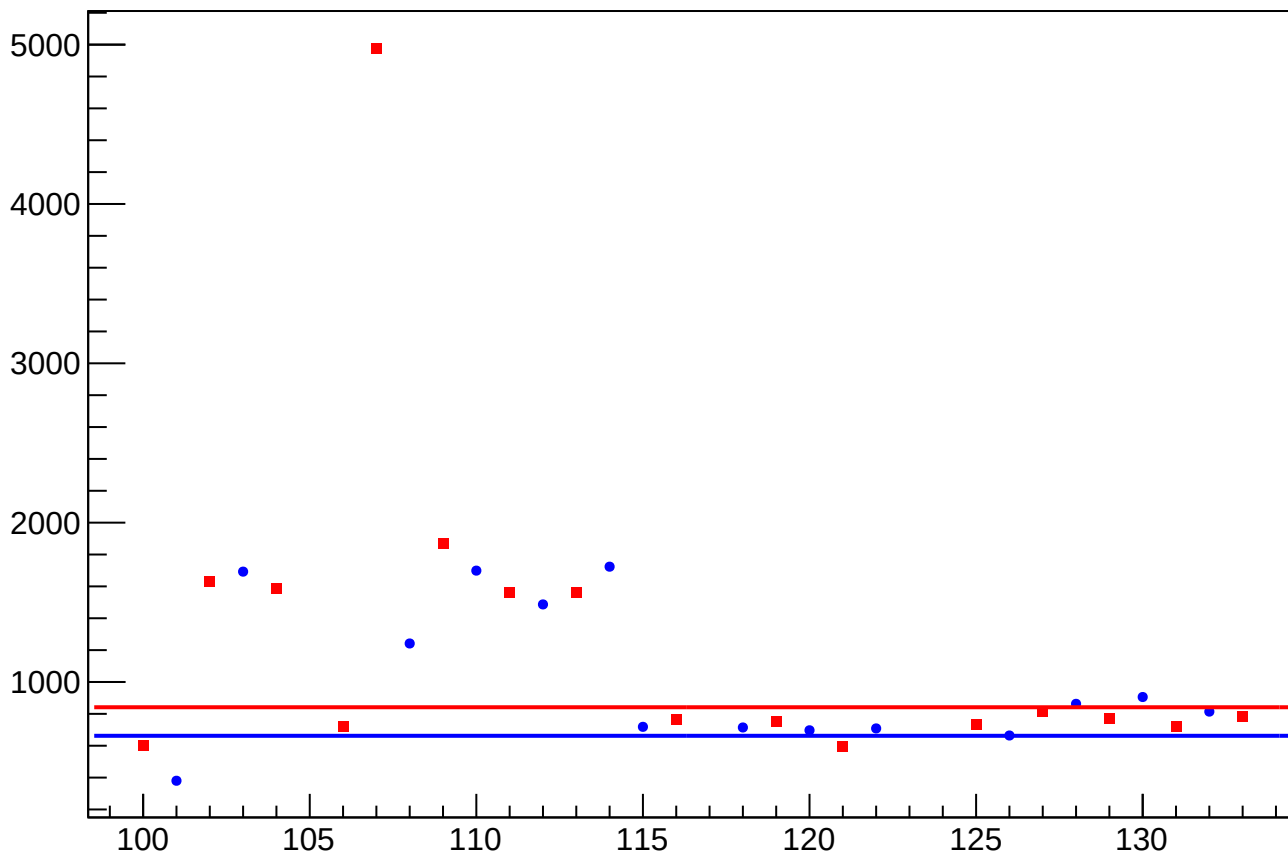
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -182.544+/-230.024  $\chi^2$ /NDF: 34.4/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 662.311+/-0.214  $\chi^2/\text{NDF}$ : 2160558.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 841.462+/-0.251  $\chi^2/\text{NDF}$ : 1821410.8/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

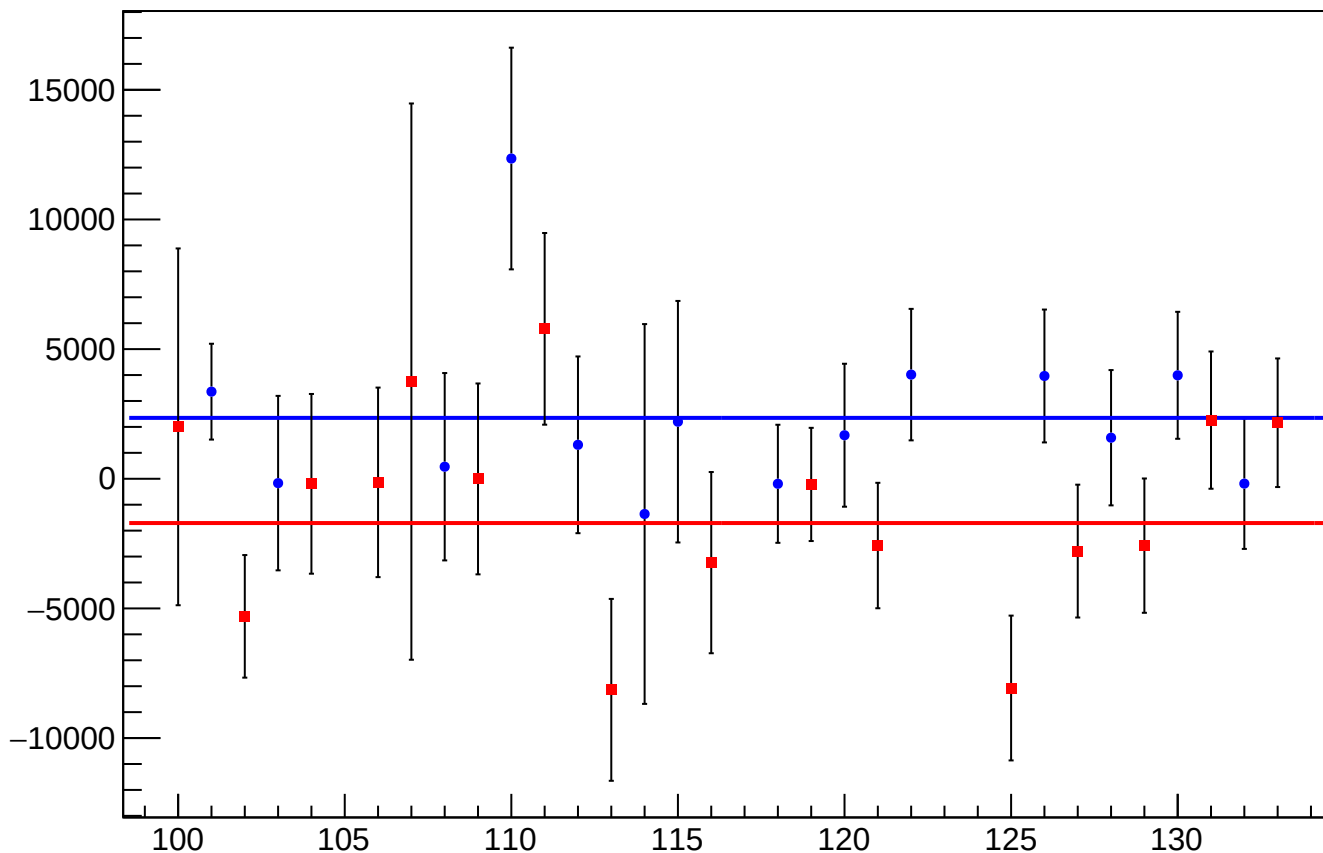
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 737.673+/-0.163  $\chi^2/\text{NDF}$ : 4277627.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_usl\_atl1\_avg\_mean vs Slug



Right In: 2348.329 $\pm$ 752.225  $\chi^2$ /NDF: 10.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1707.544 $\pm$ 746.839  $\chi^2$ /NDF: 21.9/15

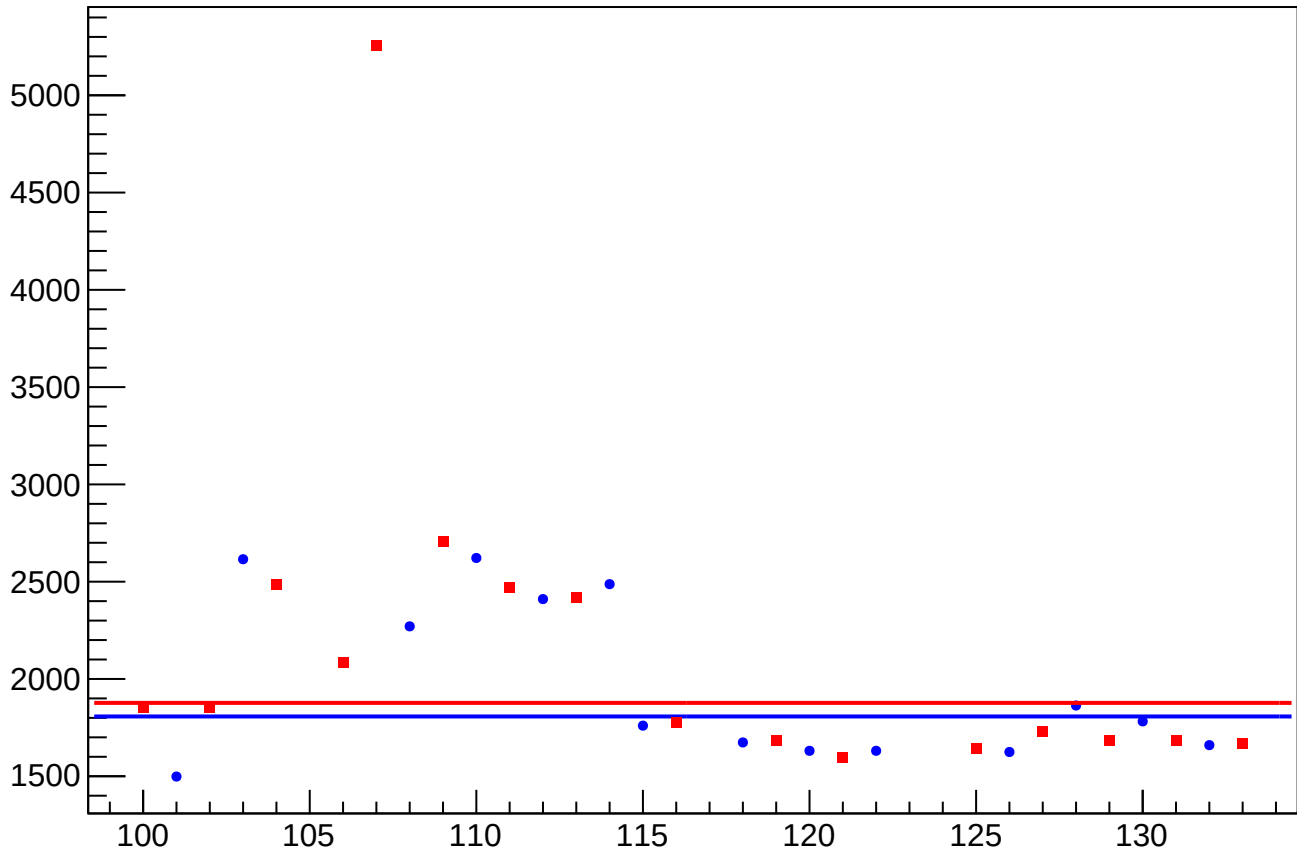
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 305.820 $\pm$ 529.989  $\chi^2$ /NDF: 47.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_avg\_rms vs Slug



Right In: 1807.256+/-0.532  $\chi^2/\text{NDF}$ : 399773.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1877.004+/-0.528  $\chi^2/\text{NDF}$ : 569592.8/15

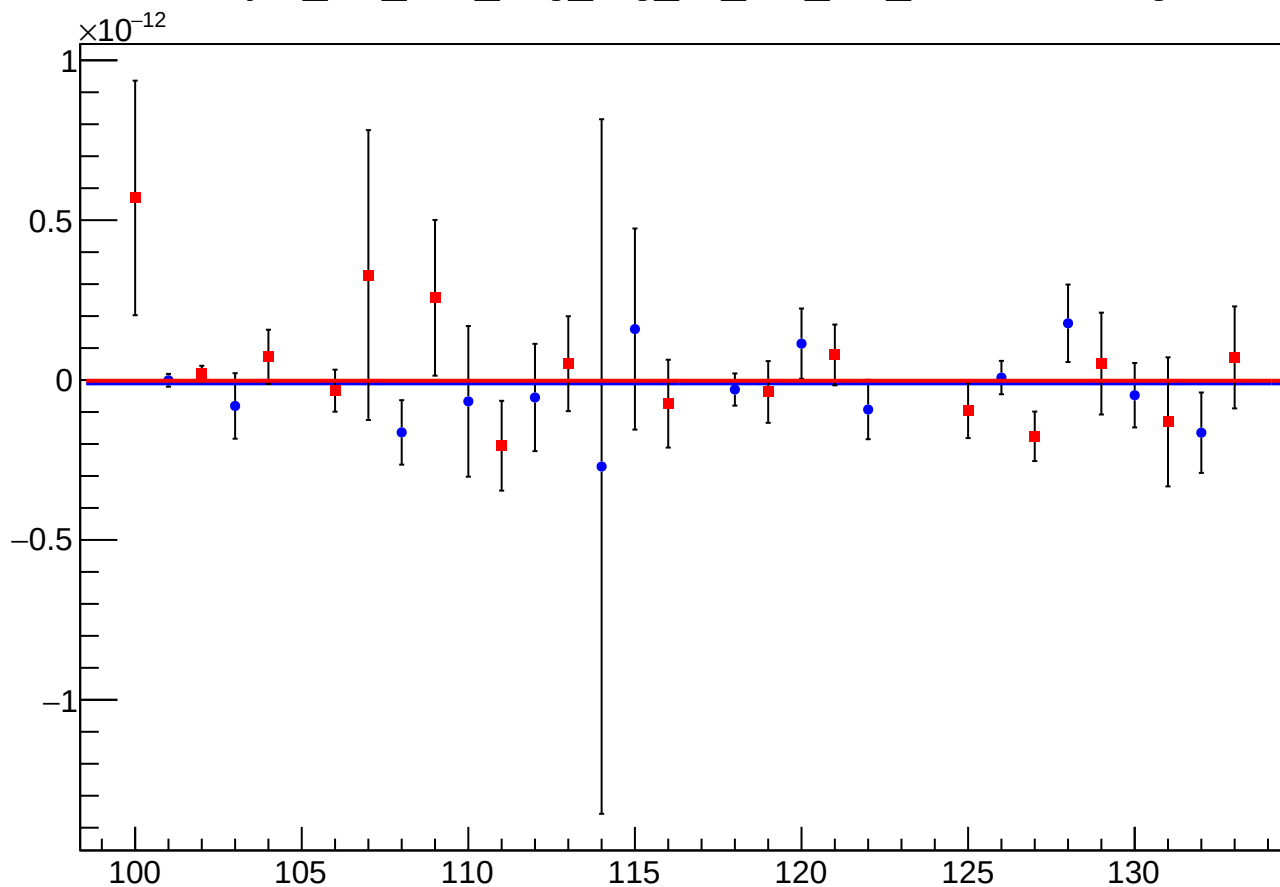
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1842.381+/-0.375  $\chi^2/\text{NDF}$ : 978025.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.0/15

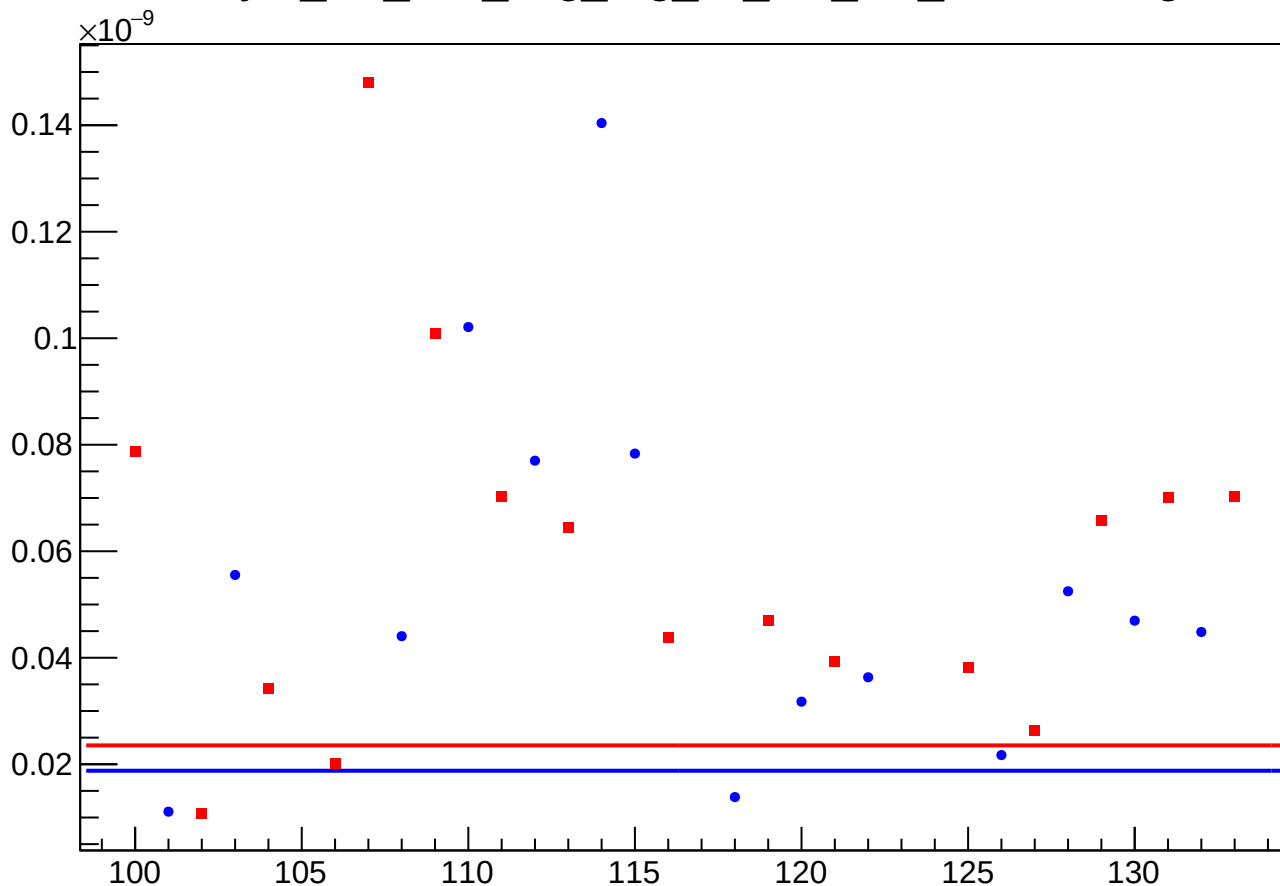
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 26.0/29

- sign 0.000+/-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  $\chi^2/\text{NDF}$ : 1788451.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2007333.3/15

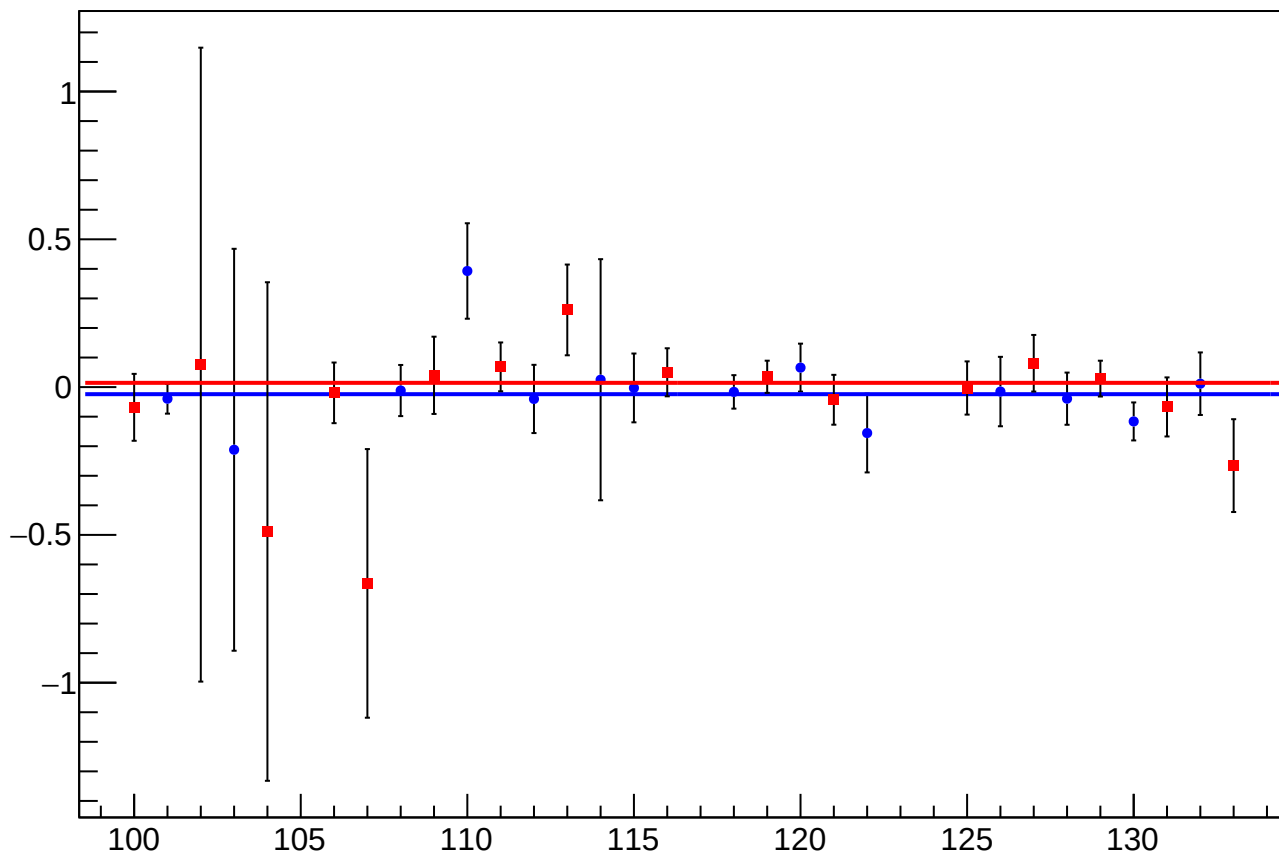
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3868430.9/29

- 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:  $-0.024 \pm 0.024$   $\chi^2/\text{NDF}$ : 11.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.014 \pm 0.024$   $\chi^2/\text{NDF}$ : 11.5/15

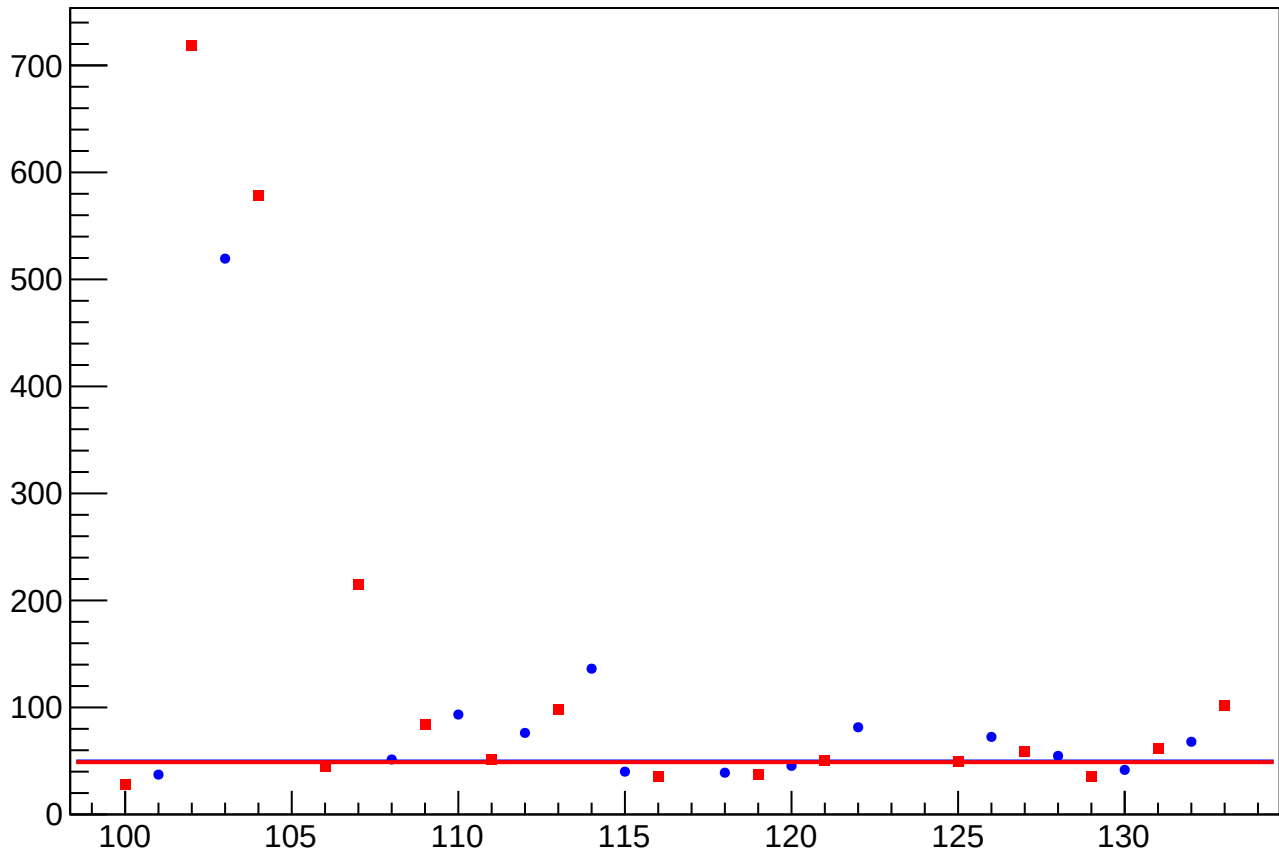
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.005 \pm 0.017$   $\chi^2/\text{NDF}$ : 24.1/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 49.482+/-0.017  $\chi^2/\text{NDF}$ : 1795728.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.860+/-0.017  $\chi^2/\text{NDF}$ : 2777261.2/15

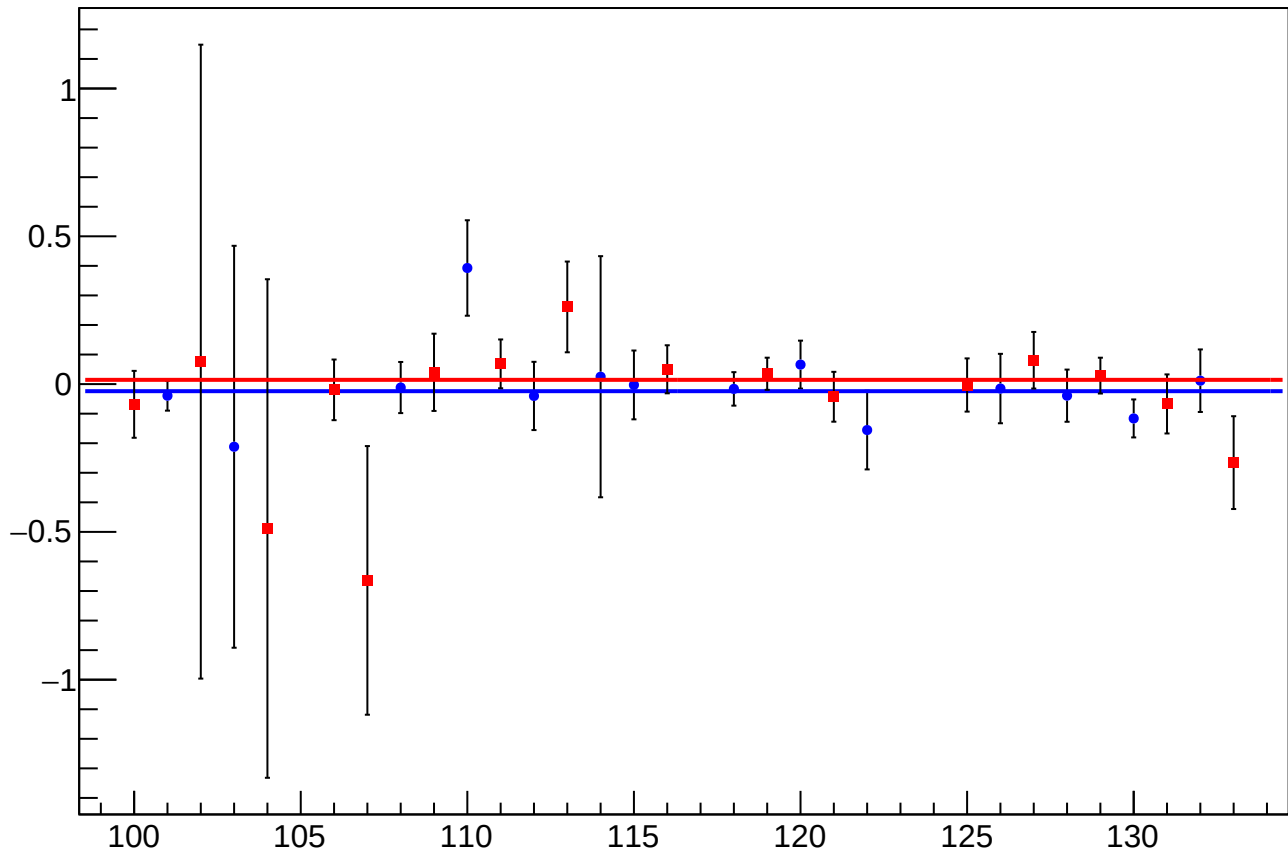
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.178+/-0.012  $\chi^2/\text{NDF}$ : 4573663.0/29

- 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:  $-0.024 \pm 0.024$   $\chi^2/\text{NDF}$ : 11.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.014 \pm 0.024$   $\chi^2/\text{NDF}$ : 11.5/15

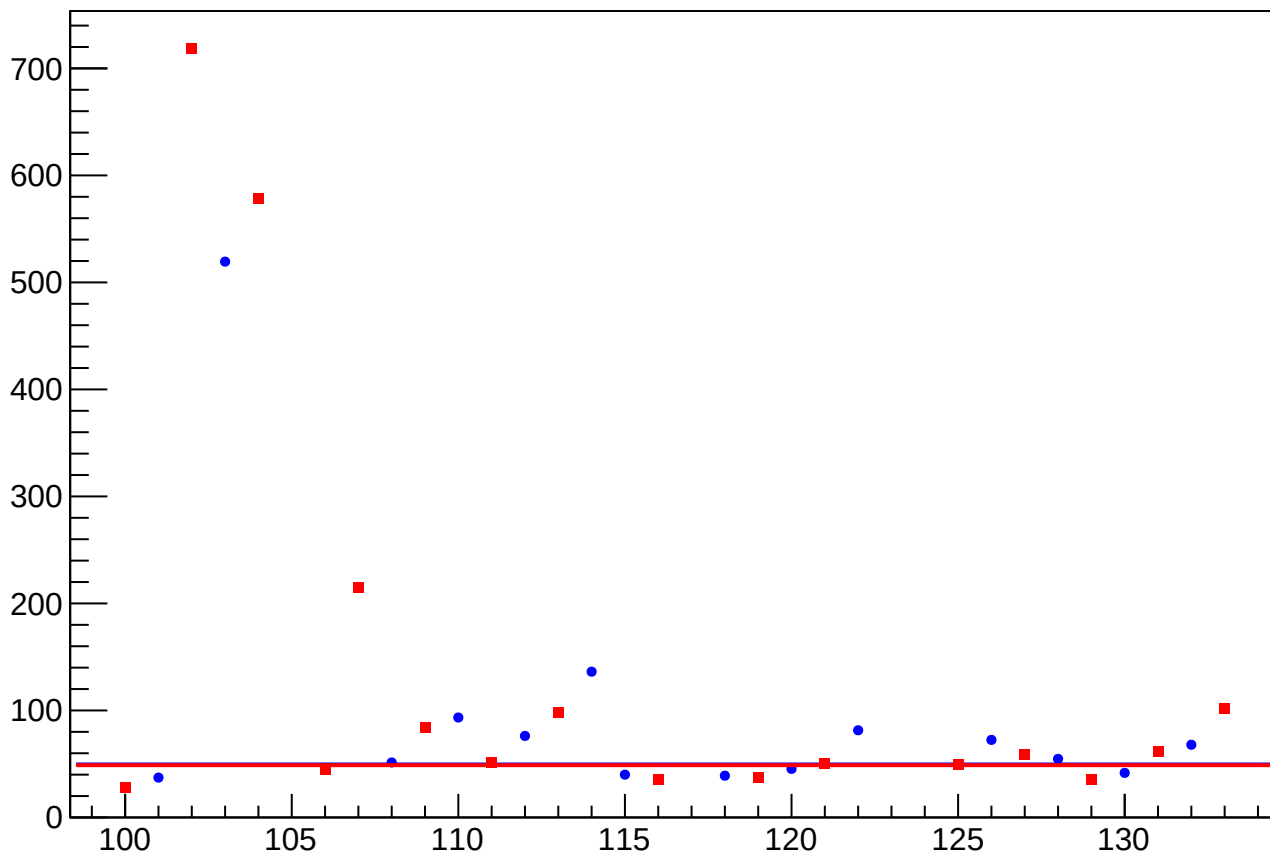
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.005 \pm 0.017$   $\chi^2/\text{NDF}$ : 24.1/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 49.482+/-0.017  $\chi^2/\text{NDF}$ : 1795728.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.860+/-0.017  $\chi^2/\text{NDF}$ : 2777261.2/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

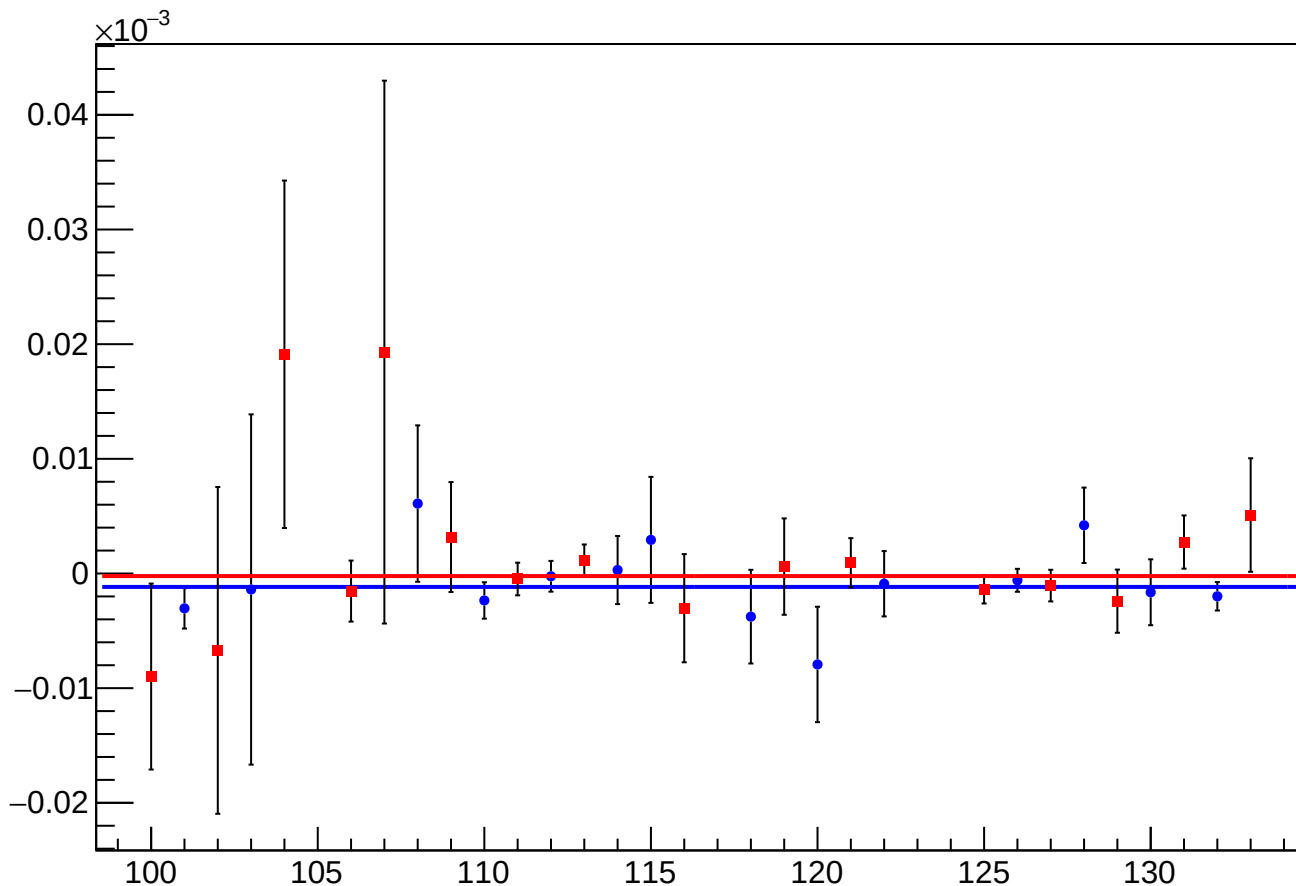
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.178+/-0.012  $\chi^2/\text{NDF}$ : 4573663.0/29

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 9.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.8/15

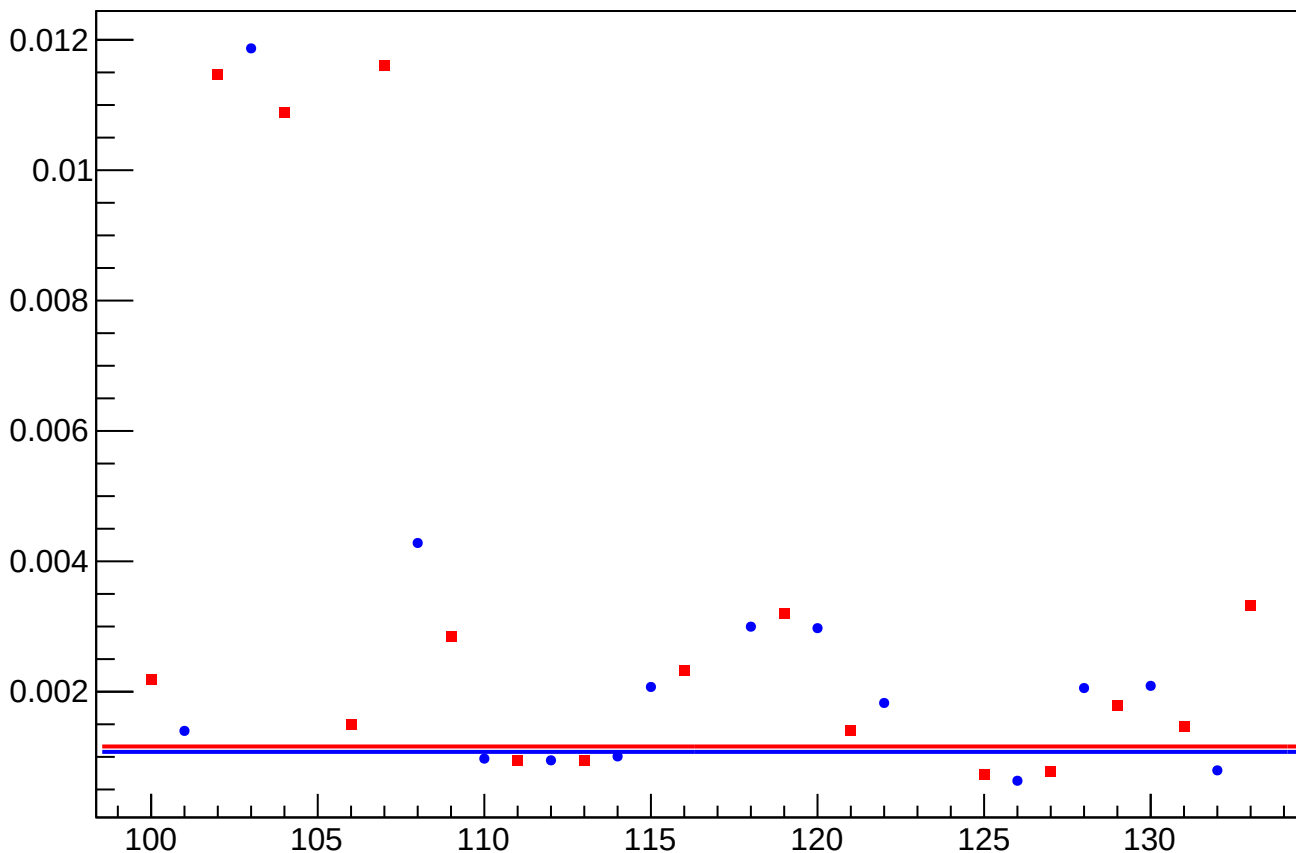
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 22.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3388219.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4193874.8/15

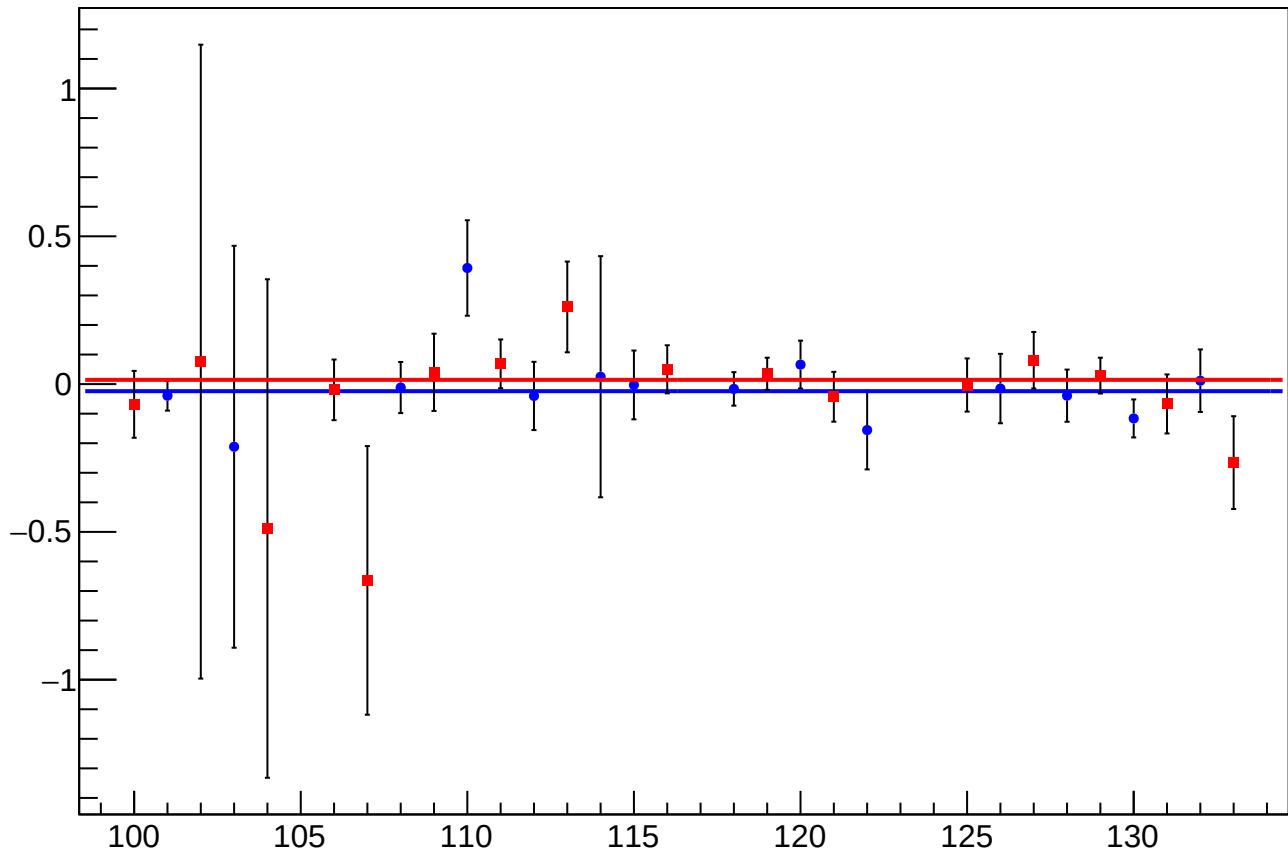
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 7604692.3/29

- 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:  $-0.024 \pm 0.024$   $\chi^2/\text{NDF}$ : 11.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.014 \pm 0.024$   $\chi^2/\text{NDF}$ : 11.5/15

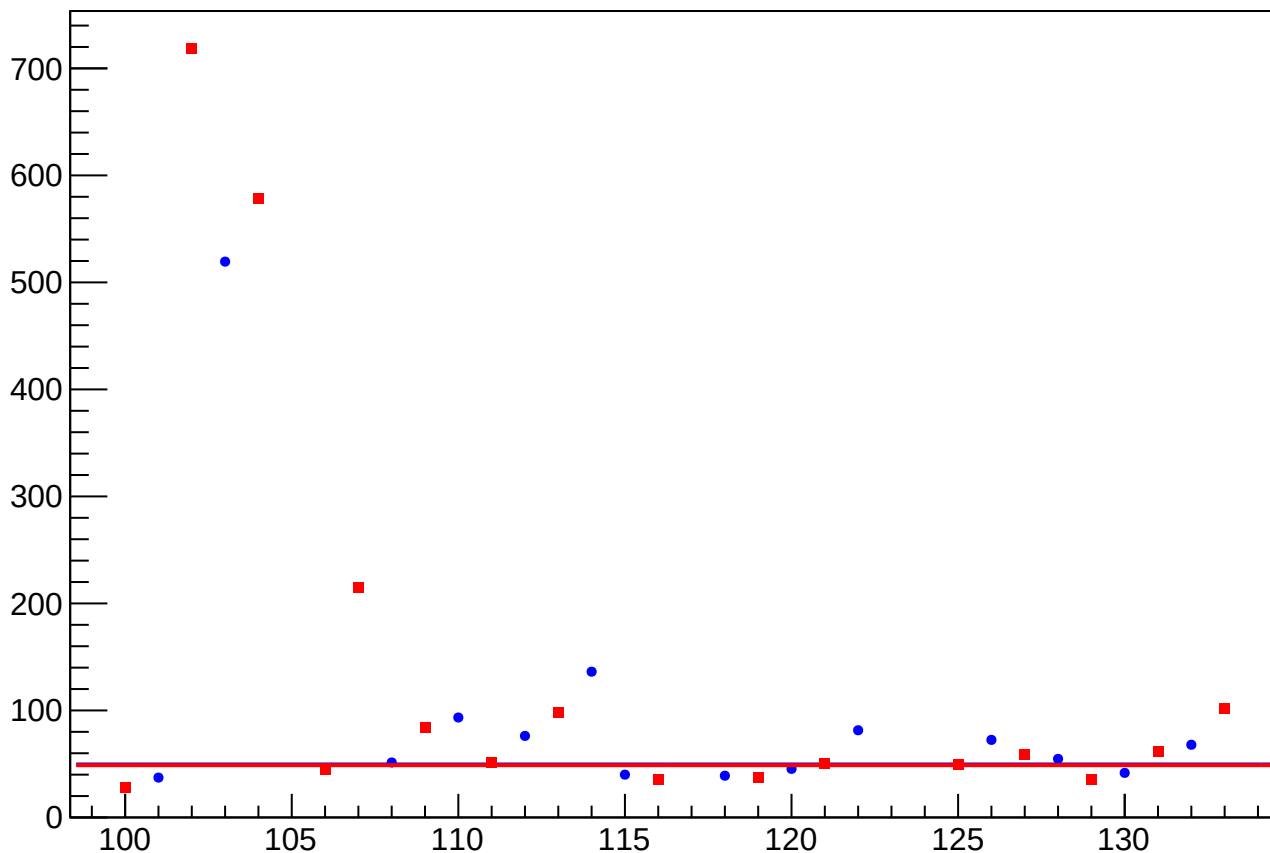
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.005 \pm 0.017$   $\chi^2/\text{NDF}$ : 24.1/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 49.482+/-0.017  $\chi^2/\text{NDF}$ : 1795721.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.860+/-0.017  $\chi^2/\text{NDF}$ : 2777244.3/15

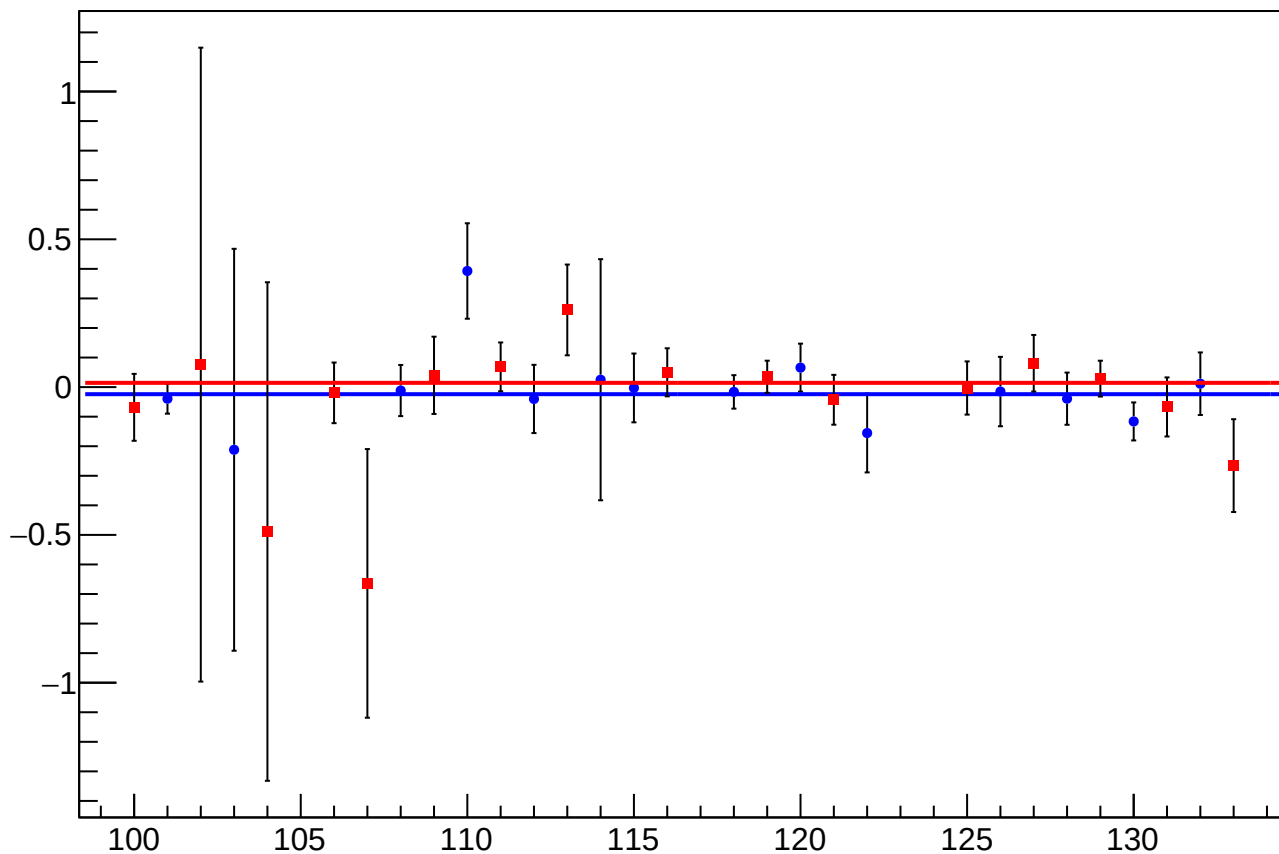
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.177+/-0.012  $\chi^2/\text{NDF}$ : 4573639.2/29

- 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: -0.024 $\pm$ 0.024  $\chi^2$ /NDF: 11.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.014 $\pm$ 0.024  $\chi^2$ /NDF: 11.5/15

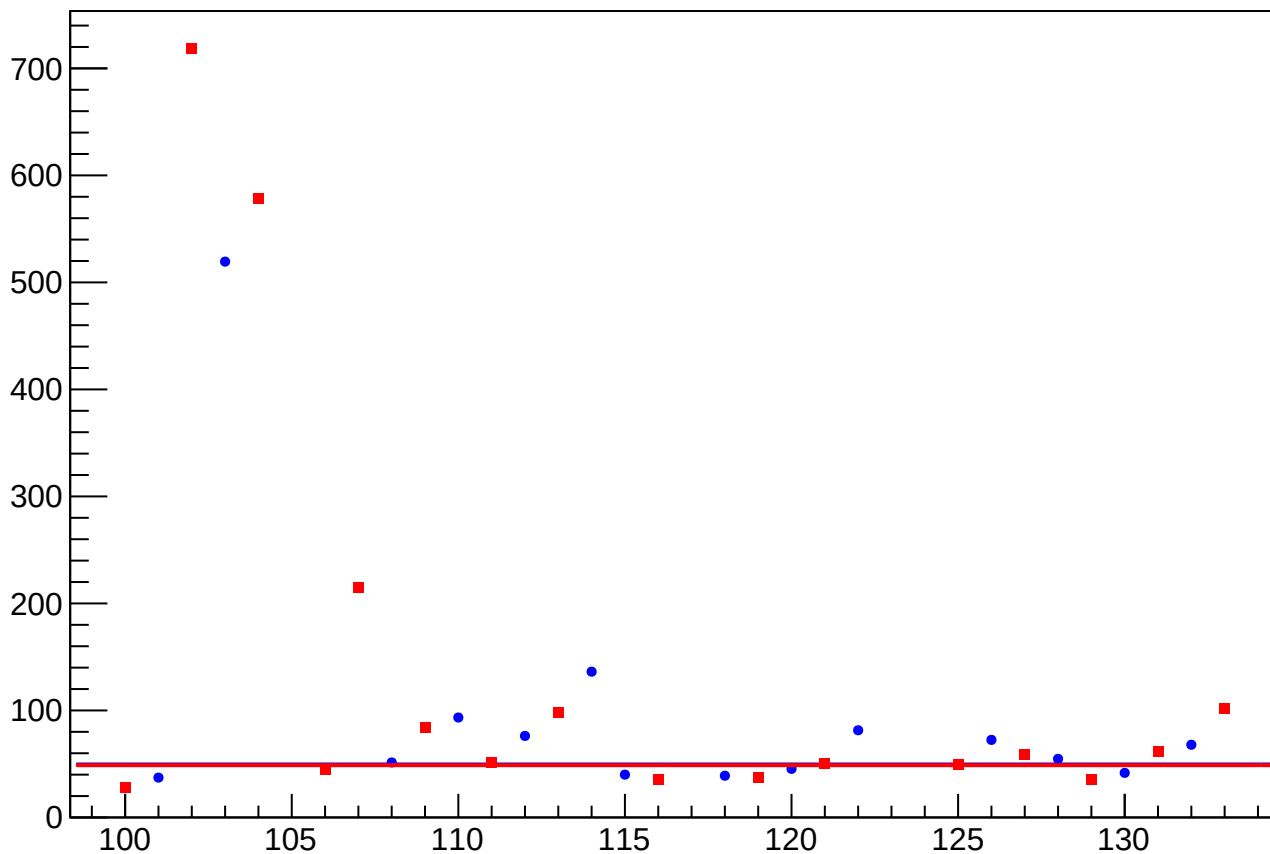
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.005 $\pm$ 0.017  $\chi^2$ /NDF: 24.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 49.482+/-0.017  $\chi^2/\text{NDF}$ : 1795721.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.860+/-0.017  $\chi^2/\text{NDF}$ : 2777244.3/15

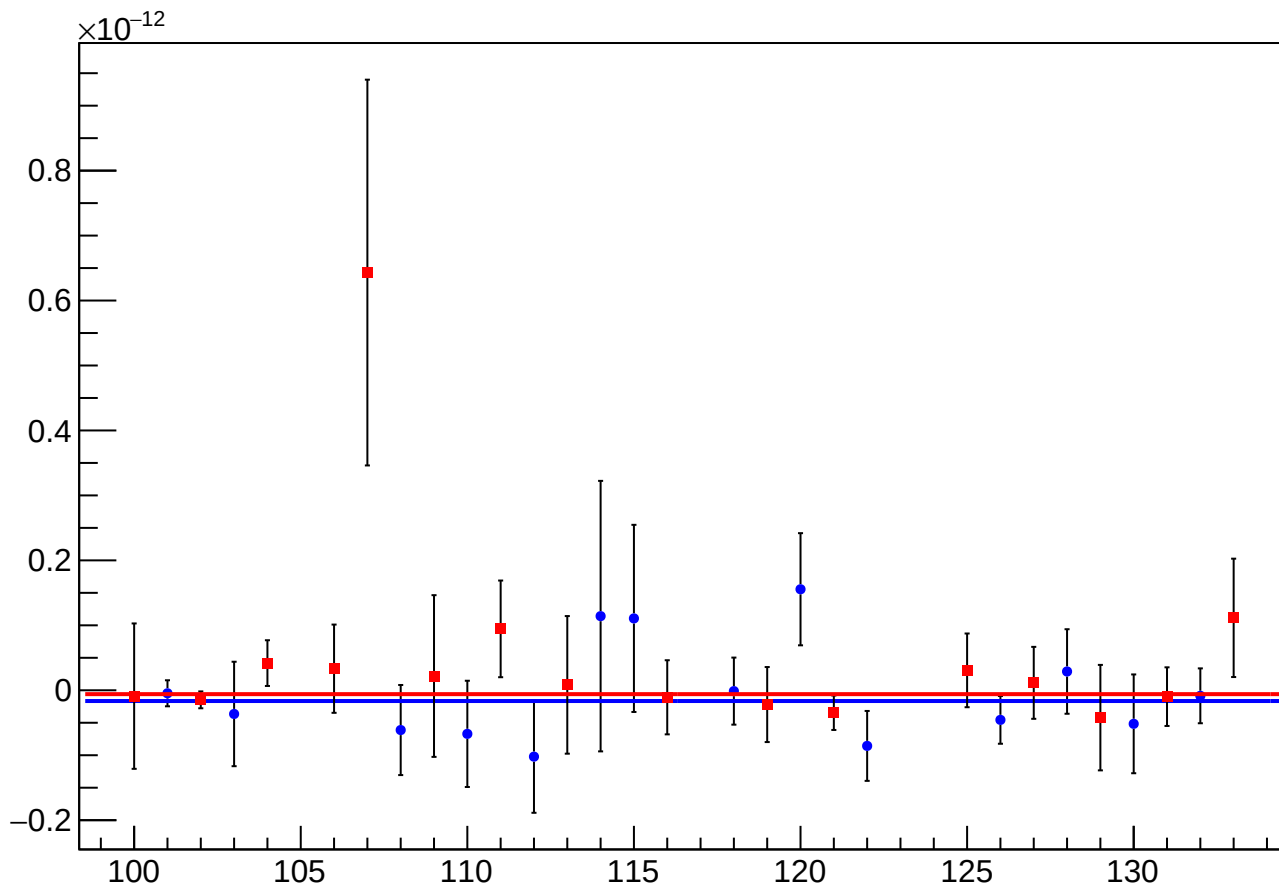
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.177+/-0.012  $\chi^2/\text{NDF}$ : 4573639.2/29

- 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  $\chi^2/\text{NDF}$ : 10.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.9/15

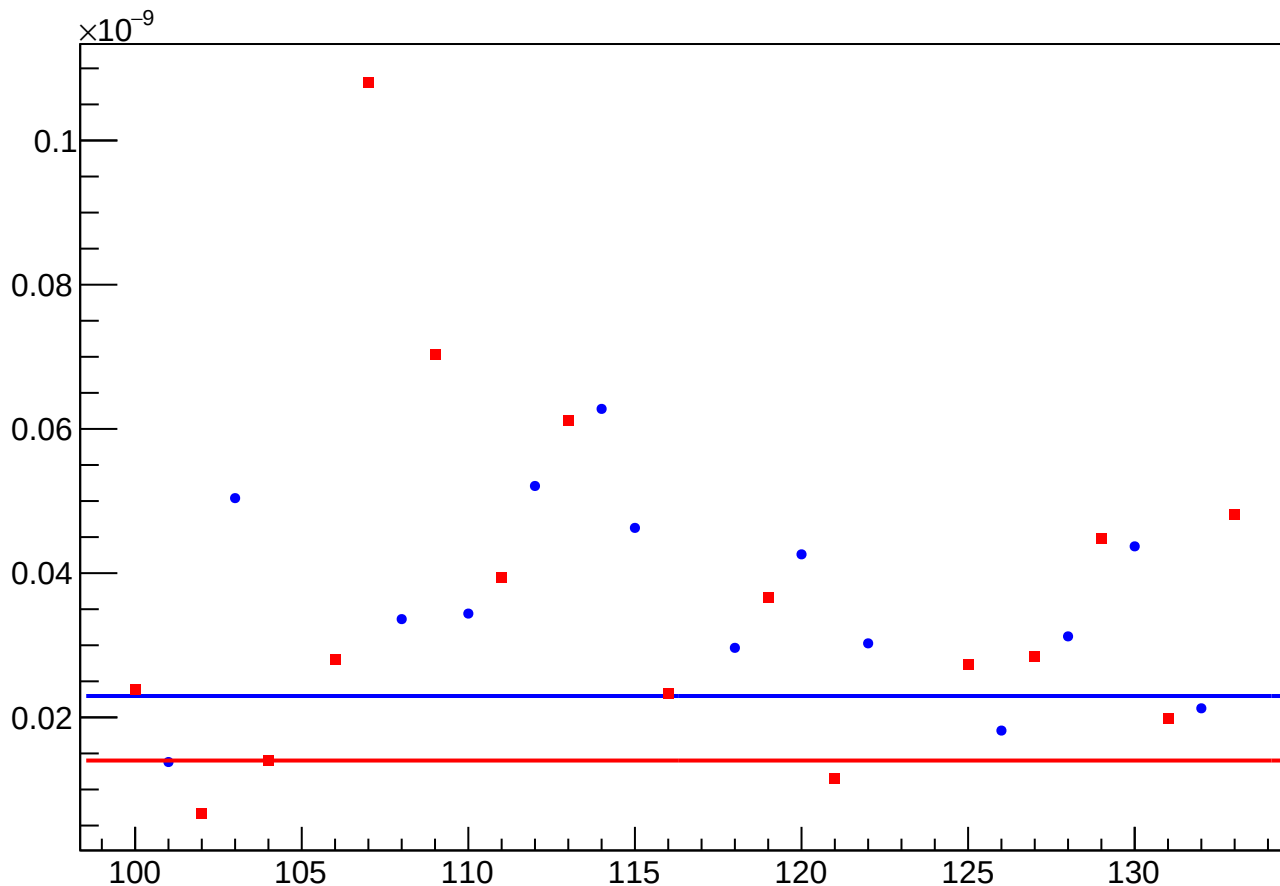
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 23.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1481862.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3210988.3/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

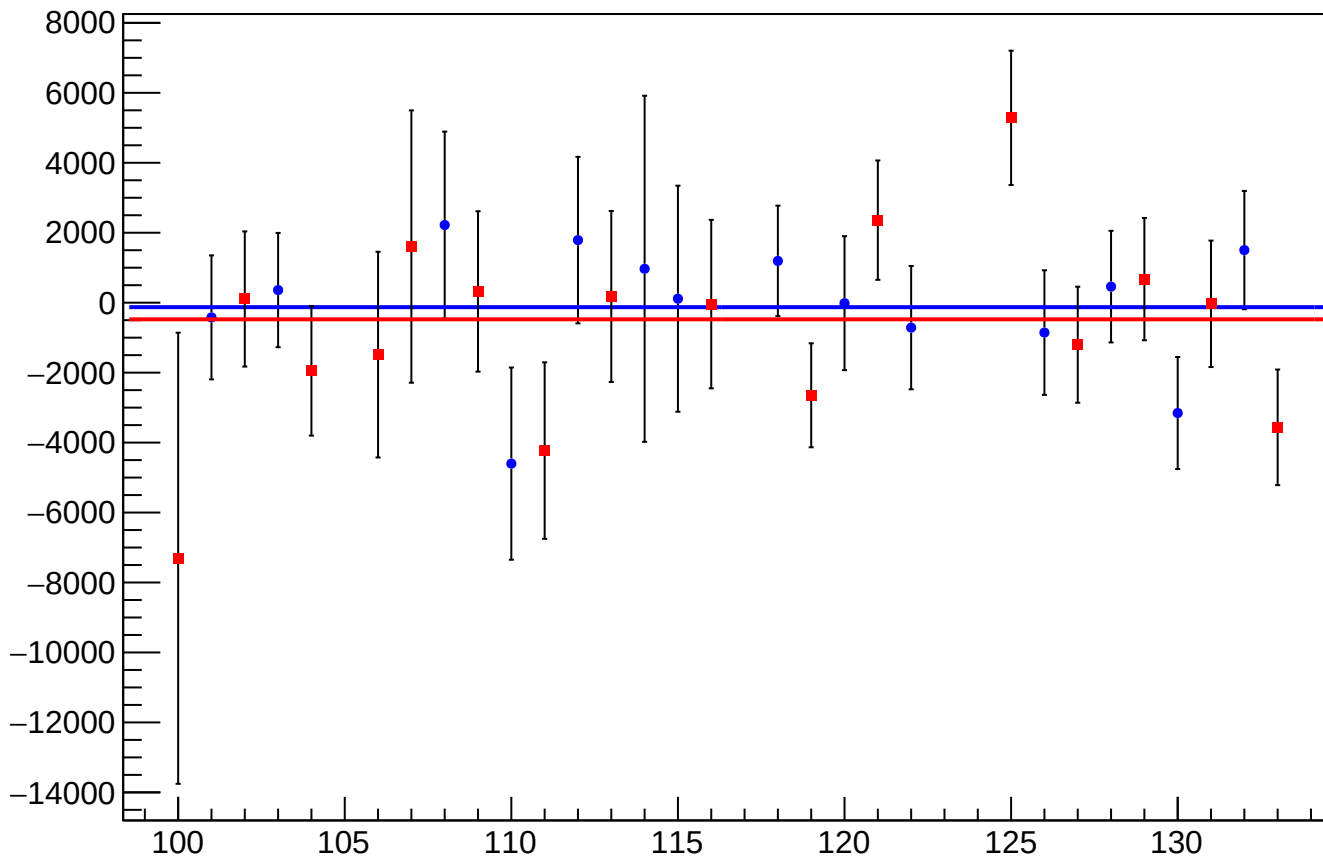
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5295711.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_usl\_atl1\_dd\_mean vs Slug



Right In: -128.080+/-518.333  $\chi^2$ /NDF: 9.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -475.683+/-507.452  $\chi^2$ /NDF: 22.8/15

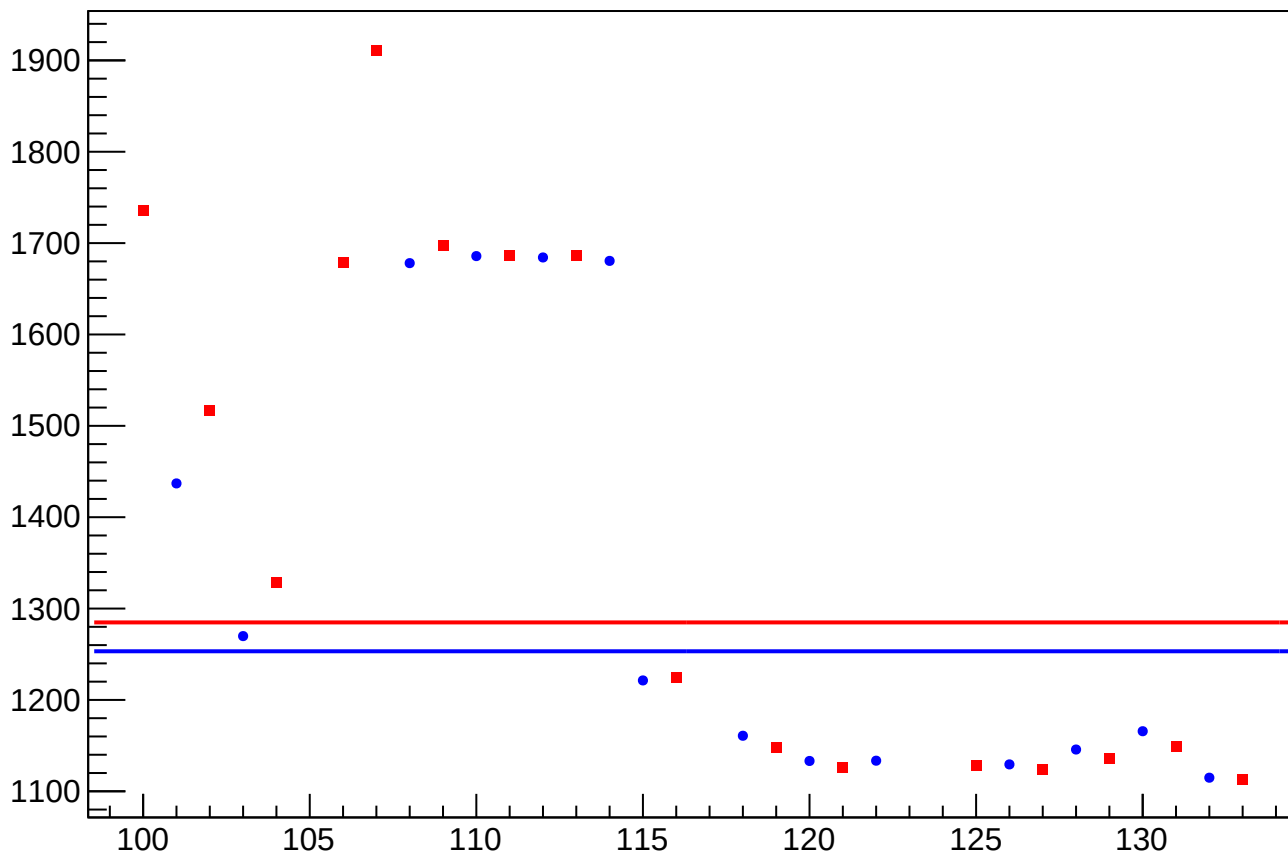
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -305.568+/-362.609  $\chi^2$ /NDF: 32.9/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1253.250+/-0.367  $\chi^2/\text{NDF}$ : 264690.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1284.840+/-0.359  $\chi^2/\text{NDF}$ : 412293.1/15

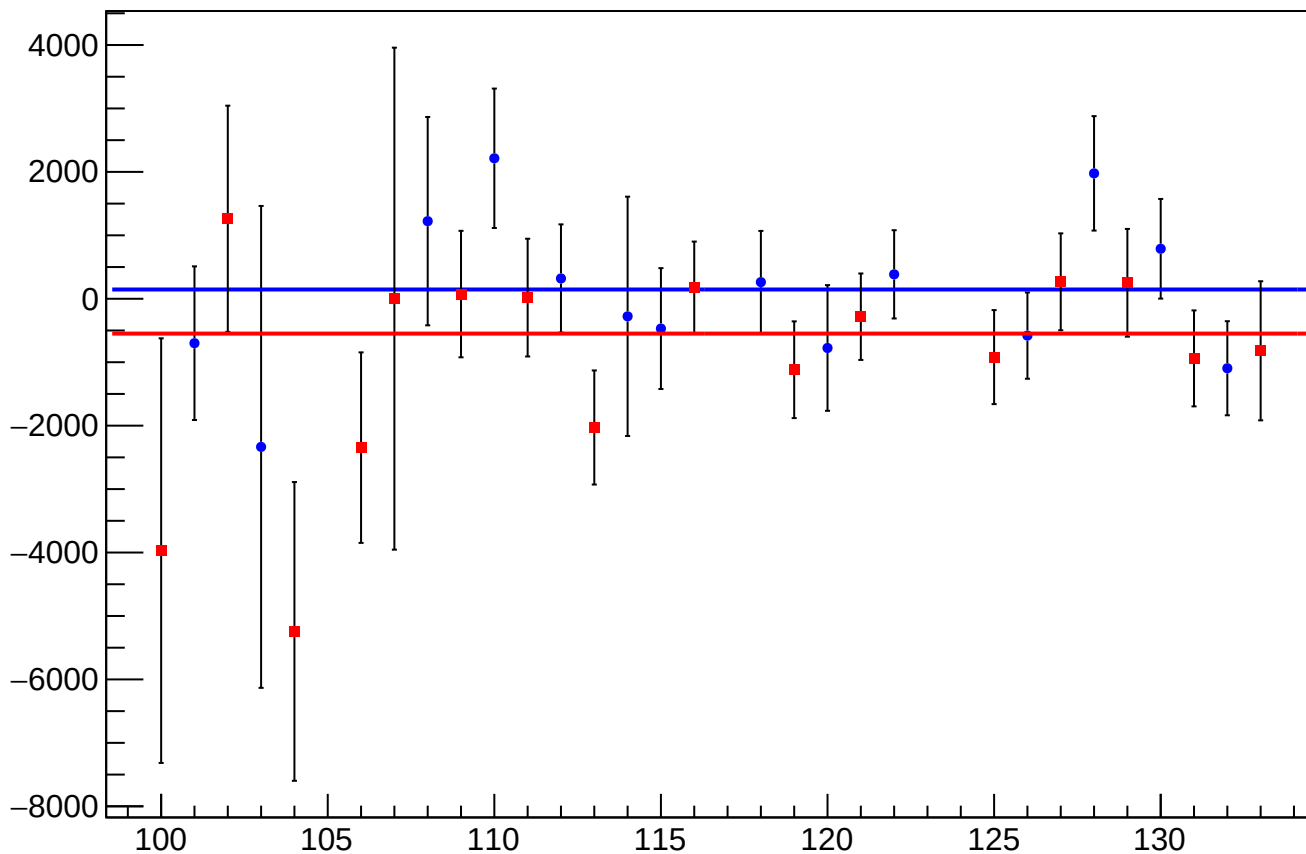
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1269.380+/-0.256  $\chi^2/\text{NDF}$ : 680776.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_reg\_correction\_mean vs Slug



Right In: 146.125+/-248.753  $\chi^2/\text{NDF}$ : 15.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -548.972+/-237.245  $\chi^2/\text{NDF}$ : 15.3/15

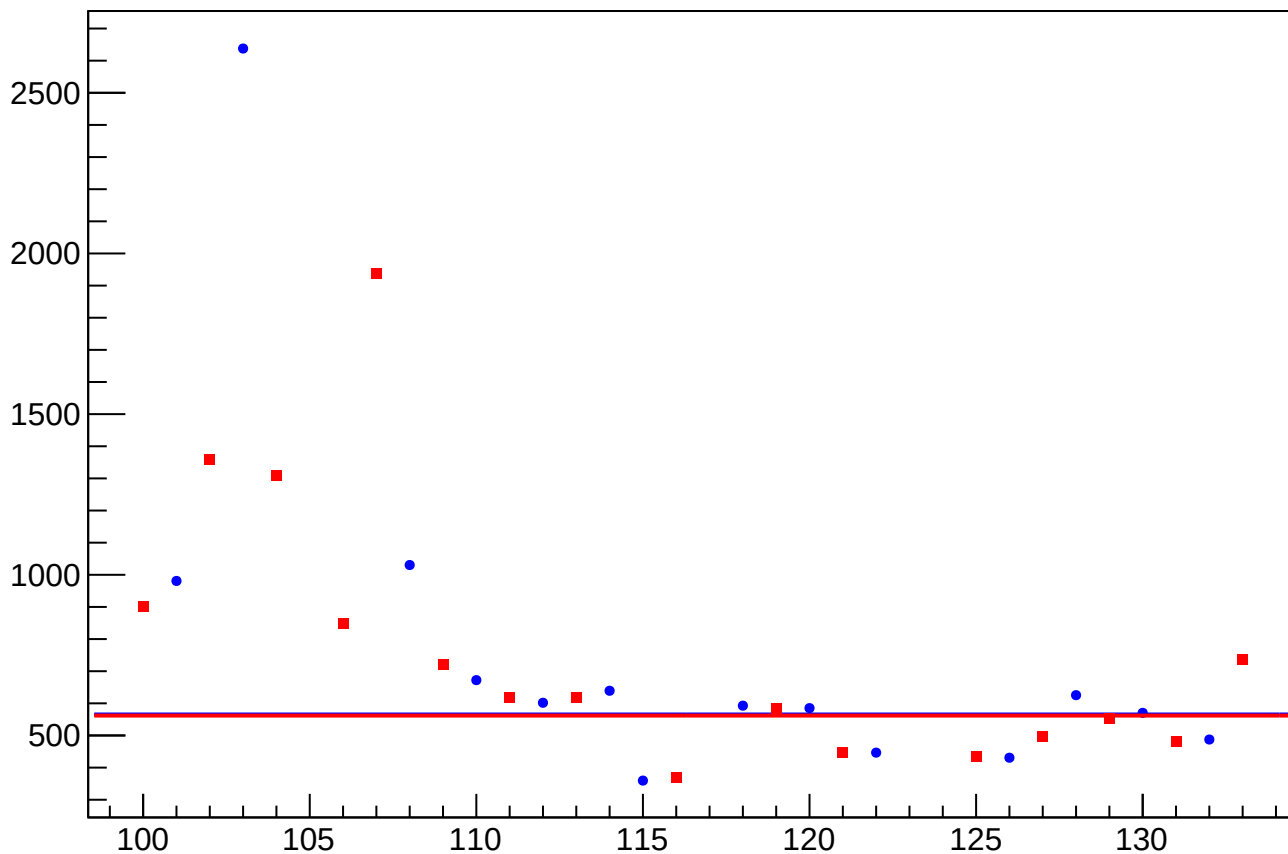
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -217.873+/-171.682  $\chi^2/\text{NDF}$ : 34.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_reg\_correction\_rms vs Slug



Right In: 565.234+/-0.176  $\chi^2/\text{NDF}$ : 1281163.4/13

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

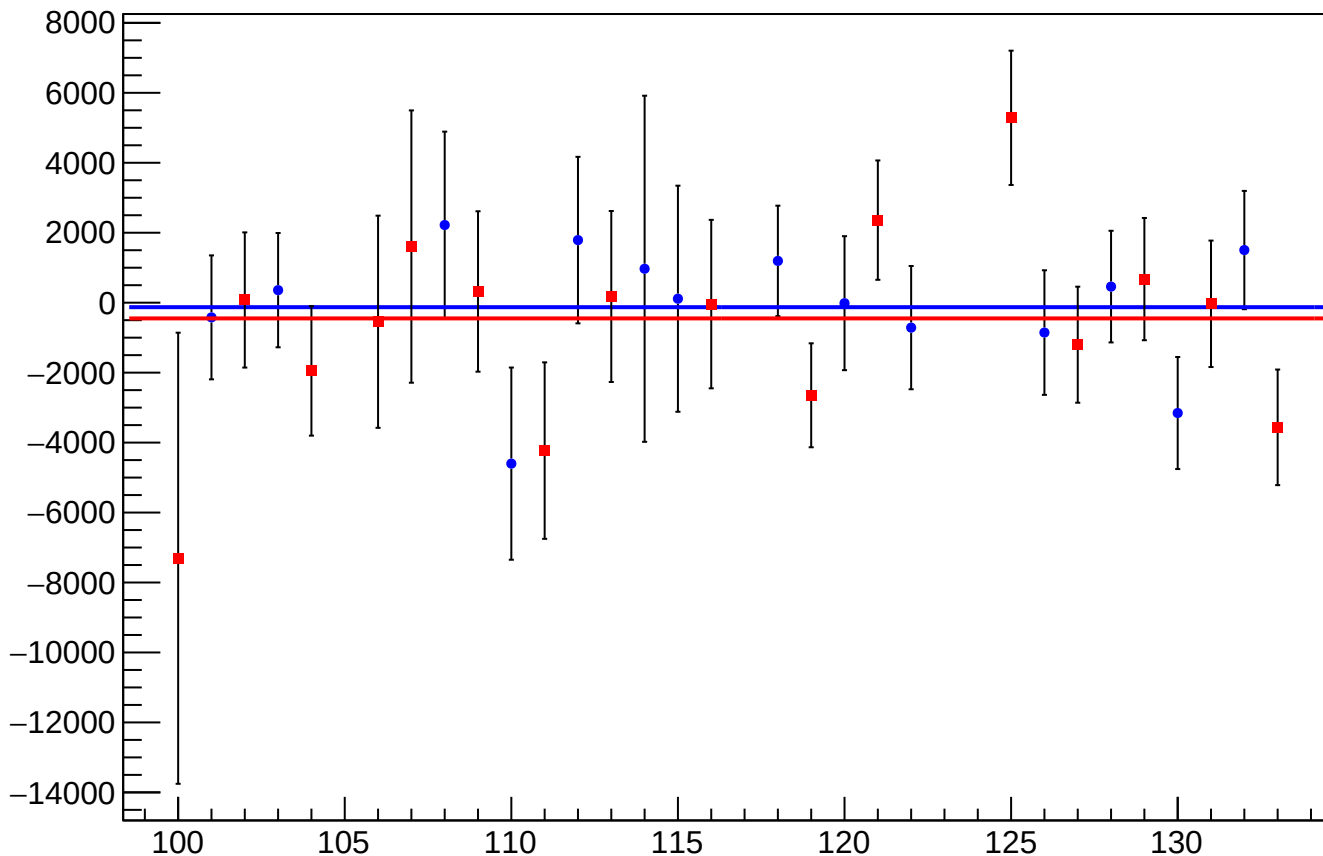
Right Out: 561.939+/-0.168  $\chi^2/\text{NDF}$ : 1351919.3/15

All: 563.508+/-0.121  $\chi^2/\text{NDF}$ : 2633266.5/29

- 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\_usl\_atl1\_dd\_mean vs Slug



Right In: -128.341+/-518.333  $\chi^2$ /NDF: 9.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -449.642+/-507.910  $\chi^2$ /NDF: 22.6/15

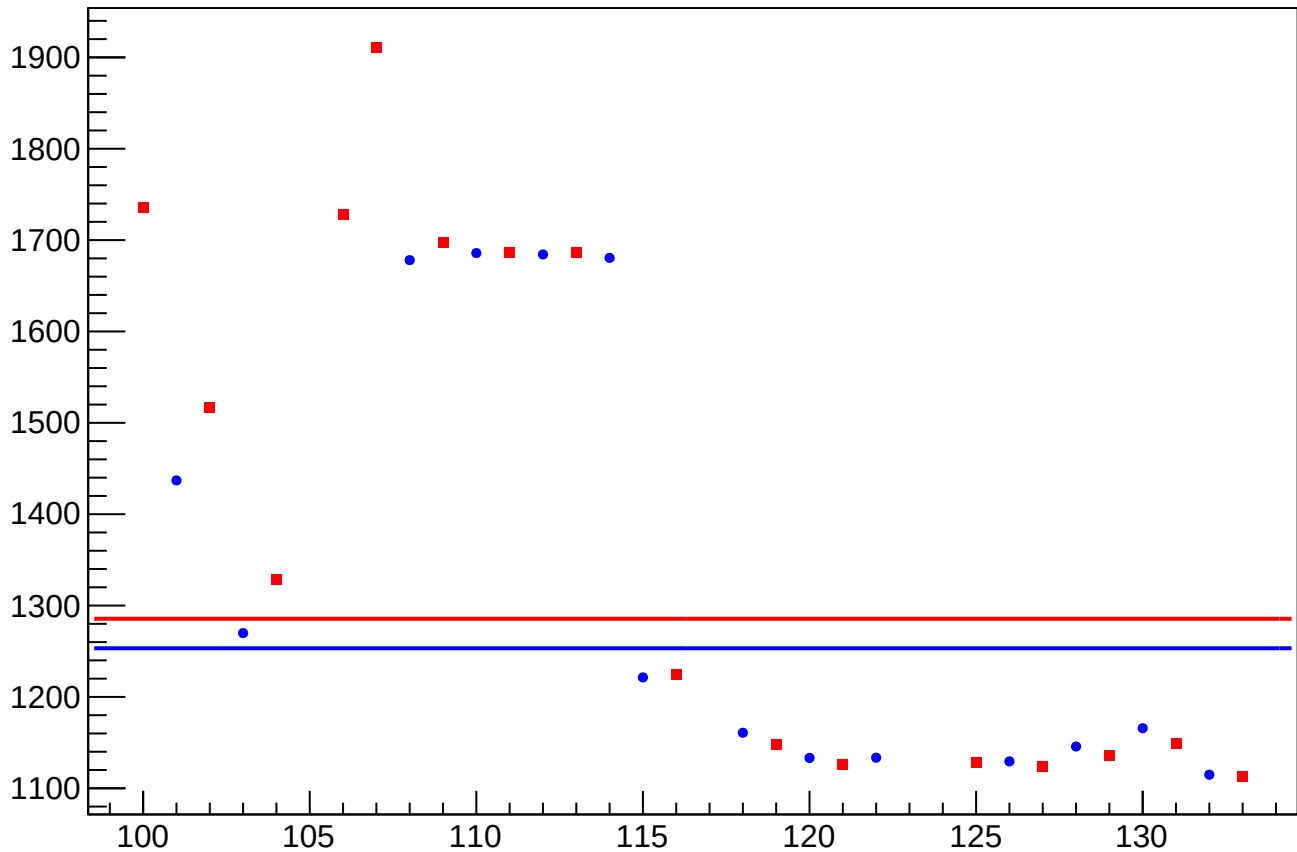
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -292.255+/-362.776  $\chi^2$ /NDF: 32.7/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1253.250+/-0.367  $\chi^2/\text{NDF}$ : 264690.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1285.538+/-0.359  $\chi^2/\text{NDF}$ : 419238.2/15

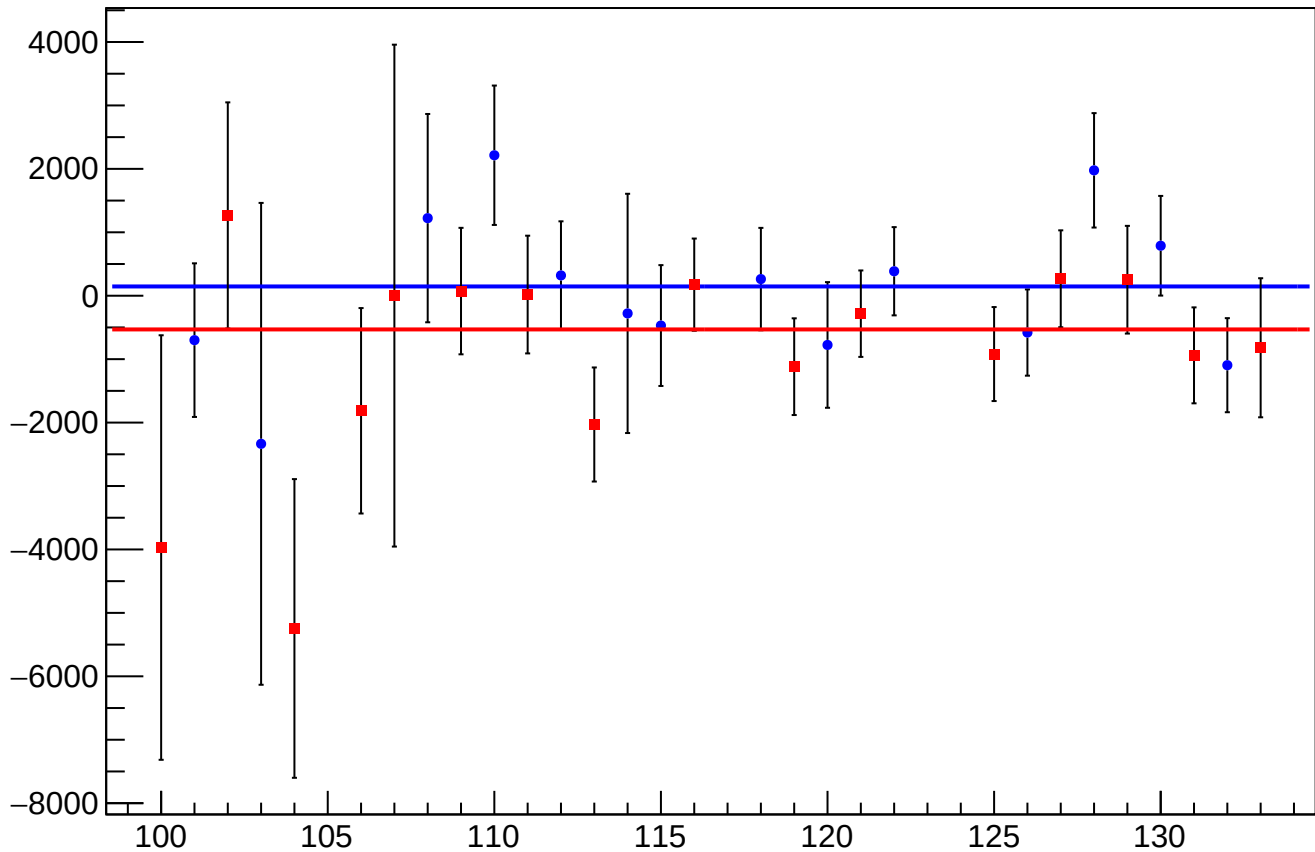
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1269.722+/-0.257  $\chi^2/\text{NDF}$ : 687887.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_cor\_correction\_mean vs Slug



Right In: 146.134 $\pm$ 248.751  $\chi^2$ /NDF: 15.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -531.332 $\pm$ 237.659  $\chi^2$ /NDF: 14.5/15

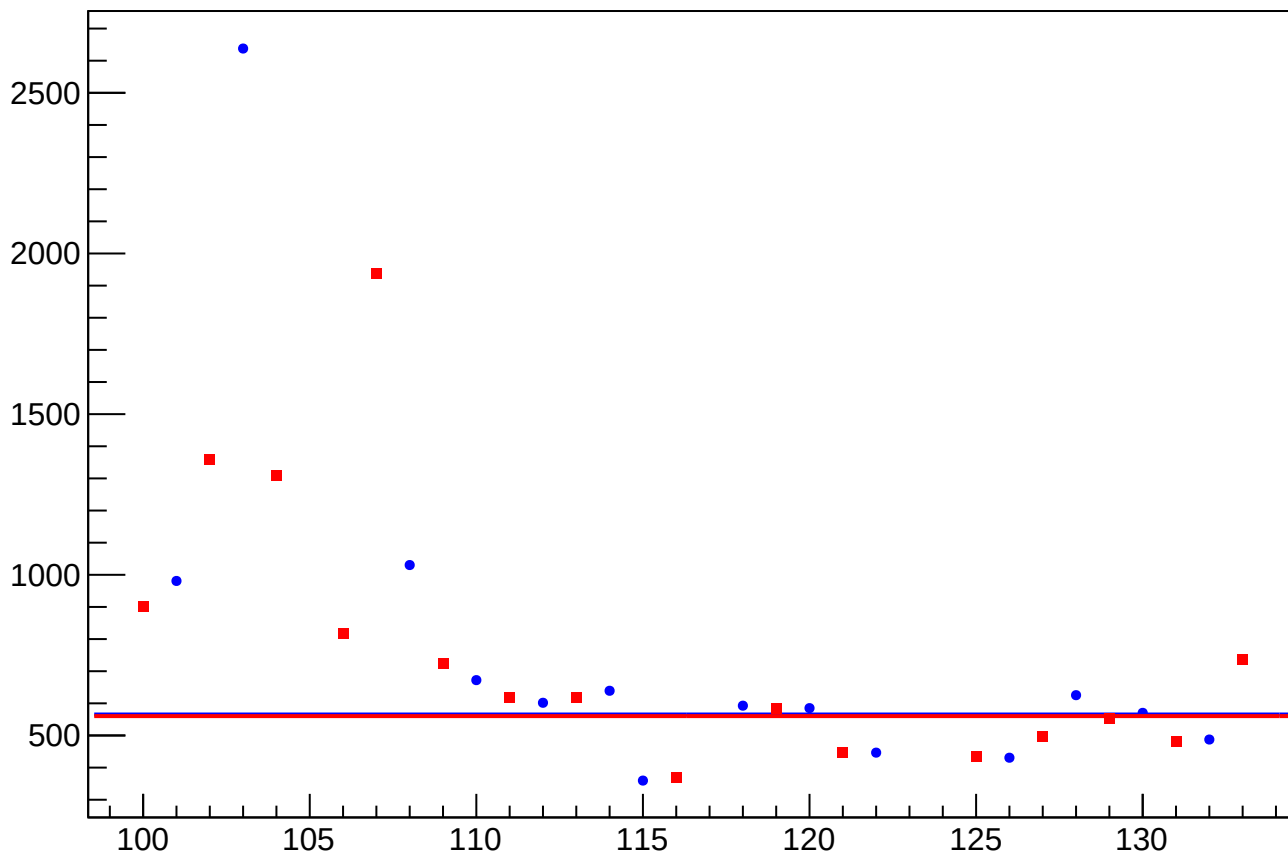
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -208.039 $\pm$ 171.838  $\chi^2$ /NDF: 33.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_dd\_cor\_correction\_rms vs Slug



Right In: 565.229+/-0.176  $\chi^2/\text{NDF}$ : 1281142.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 560.263+/-0.168  $\chi^2/\text{NDF}$ : 1329108.5/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

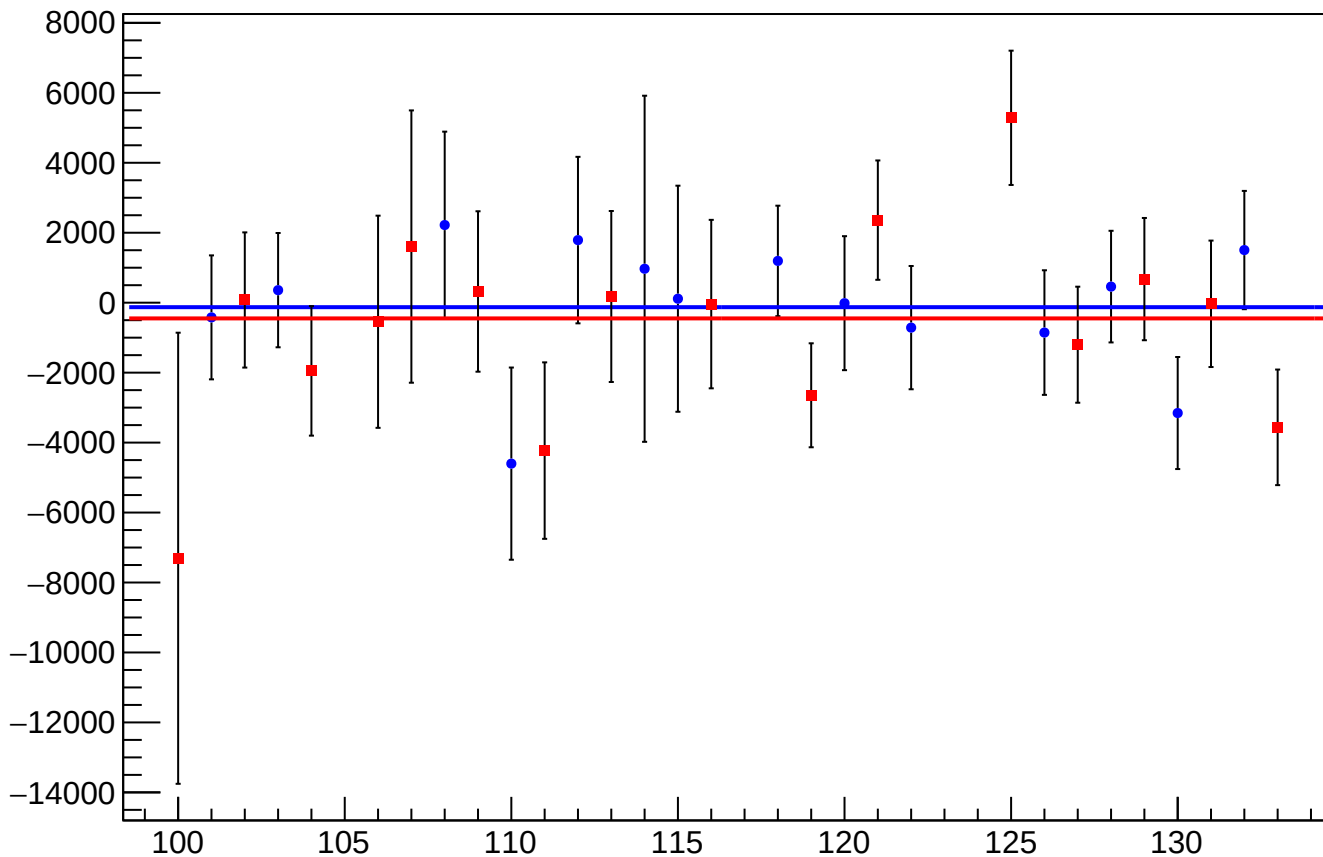
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 562.633+/-0.122  $\chi^2/\text{NDF}$ : 2610667.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_cor\_asym\_usl\_atl1\_dd\_mean vs Slug



Right In: -128.341+/-518.333  $\chi^2$ /NDF: 9.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -449.642+/-507.910  $\chi^2$ /NDF: 22.6/15

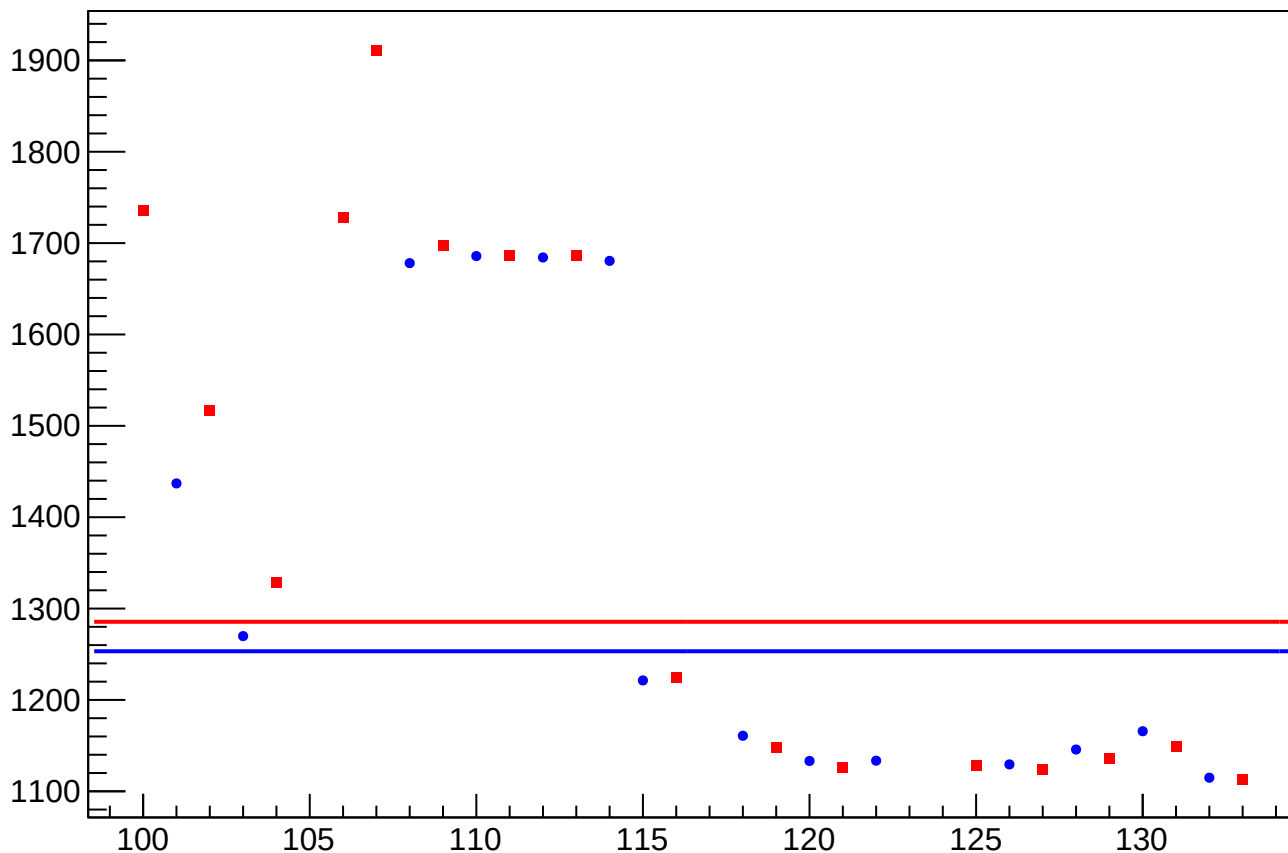
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -292.255+/-362.776  $\chi^2$ /NDF: 32.7/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1253.250+/-0.367  $\chi^2/\text{NDF}$ : 264690.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1285.538+/-0.359  $\chi^2/\text{NDF}$ : 419238.2/15

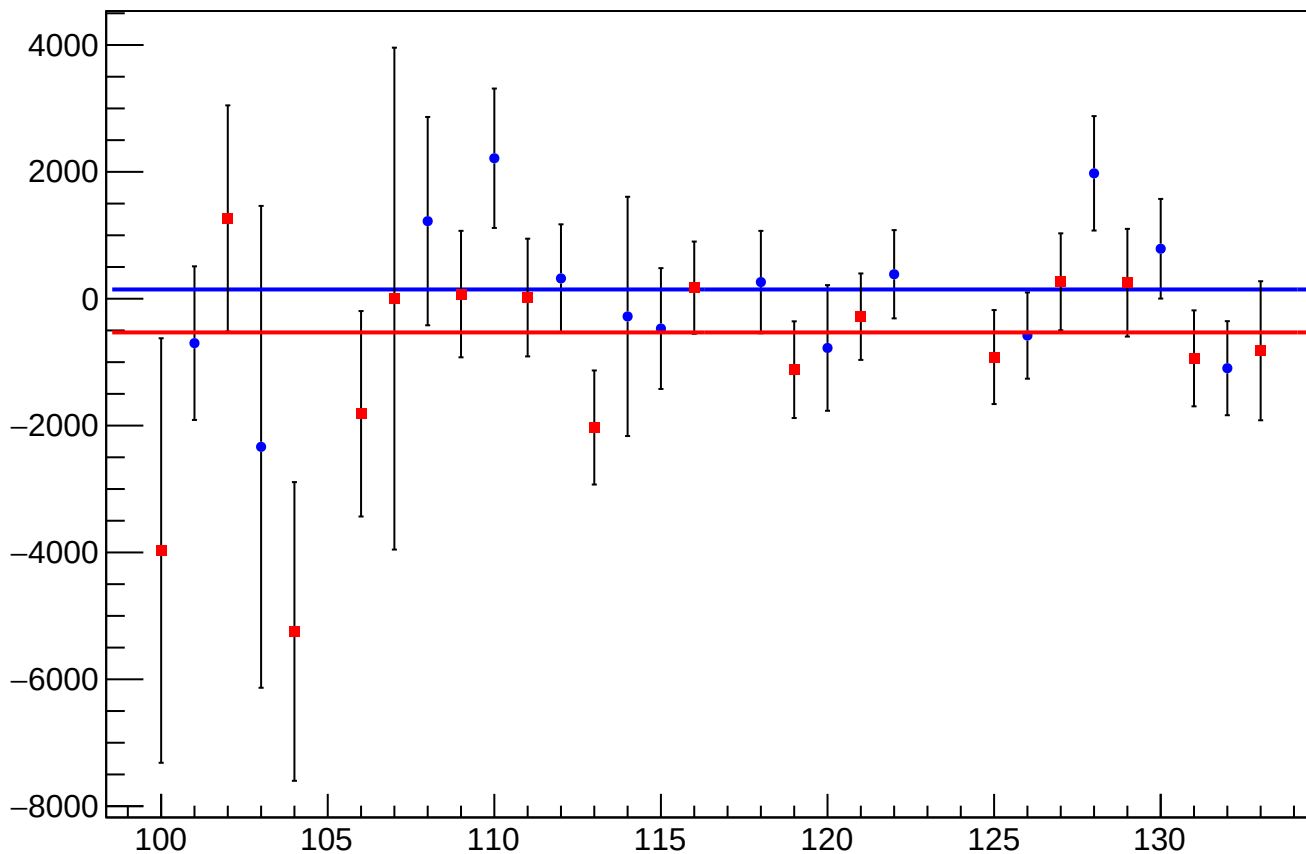
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1269.722+/-0.257  $\chi^2/\text{NDF}$ : 687887.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 146.134 $\pm$ 248.751  $\chi^2$ /NDF: 15.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -531.332 $\pm$ 237.659  $\chi^2$ /NDF: 14.5/15

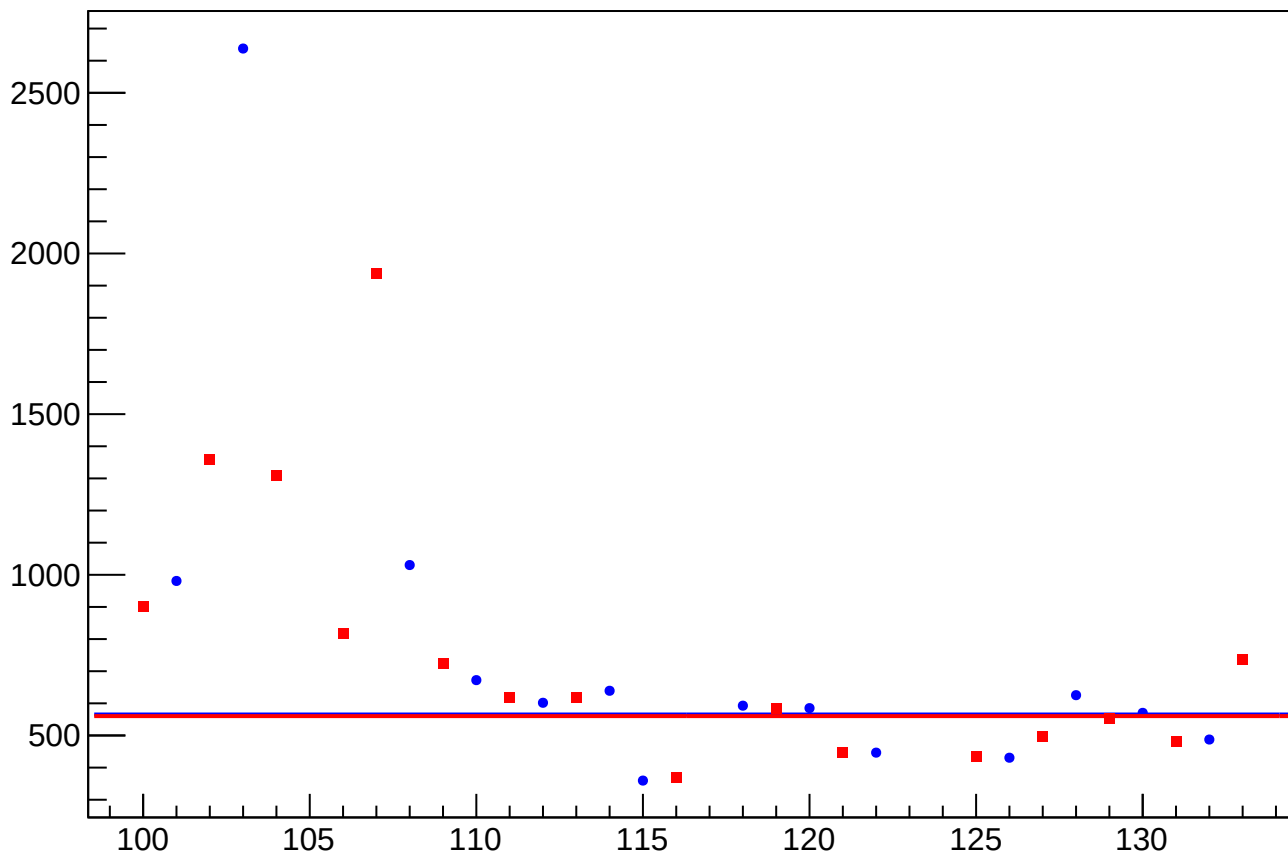
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -208.039 $\pm$ 171.838  $\chi^2$ /NDF: 33.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 565.229+/-0.176  $\chi^2/\text{NDF}$ : 1281142.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 560.263+/-0.168  $\chi^2/\text{NDF}$ : 1329108.5/15

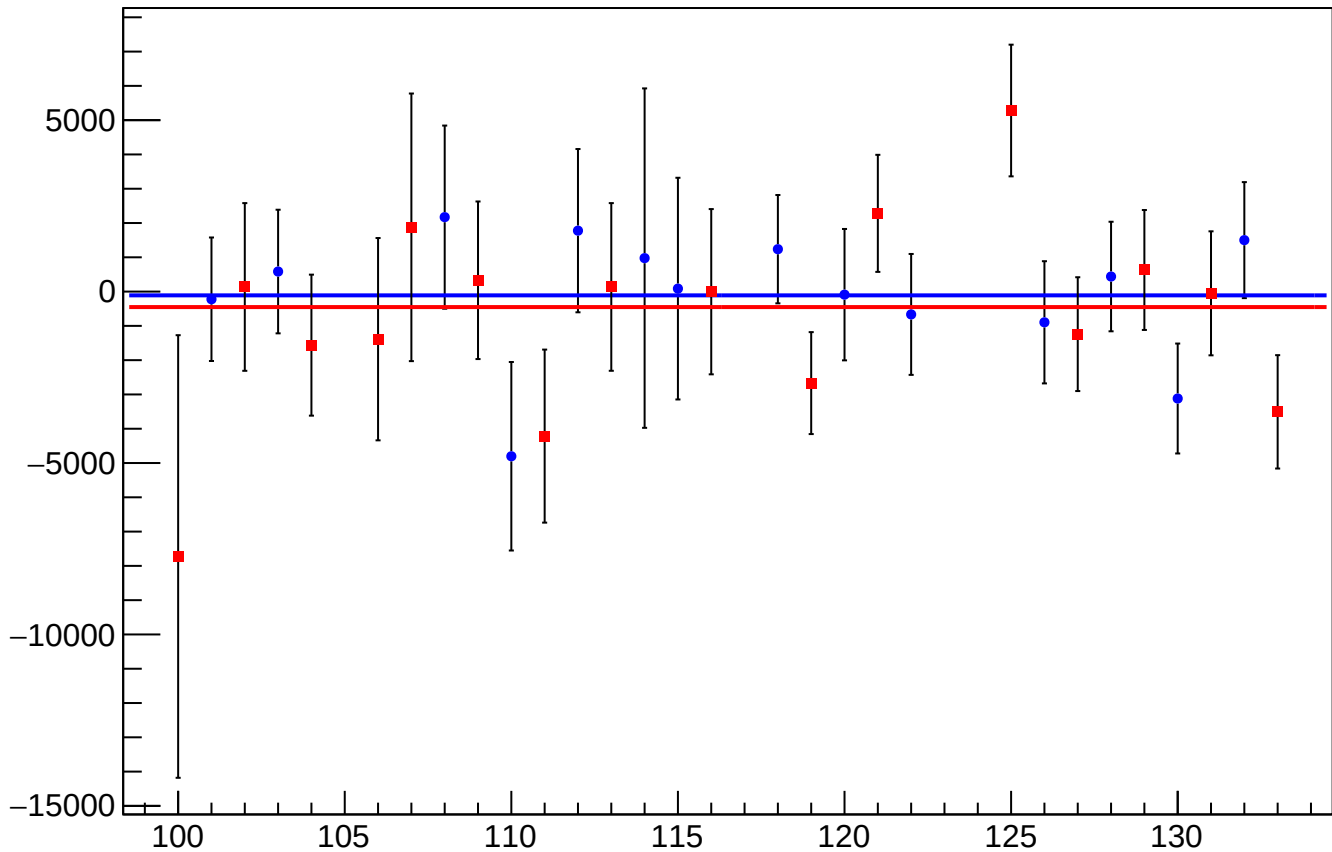
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 562.633+/-0.122  $\chi^2/\text{NDF}$ : 2610667.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_usl\_atl1\_dd\_mean vs Slug



Right In:  $-109.878 \pm 524.031$   $\chi^2/\text{NDF}$ : 10.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-451.693 \pm 518.313$   $\chi^2/\text{NDF}$ : 22.3/15

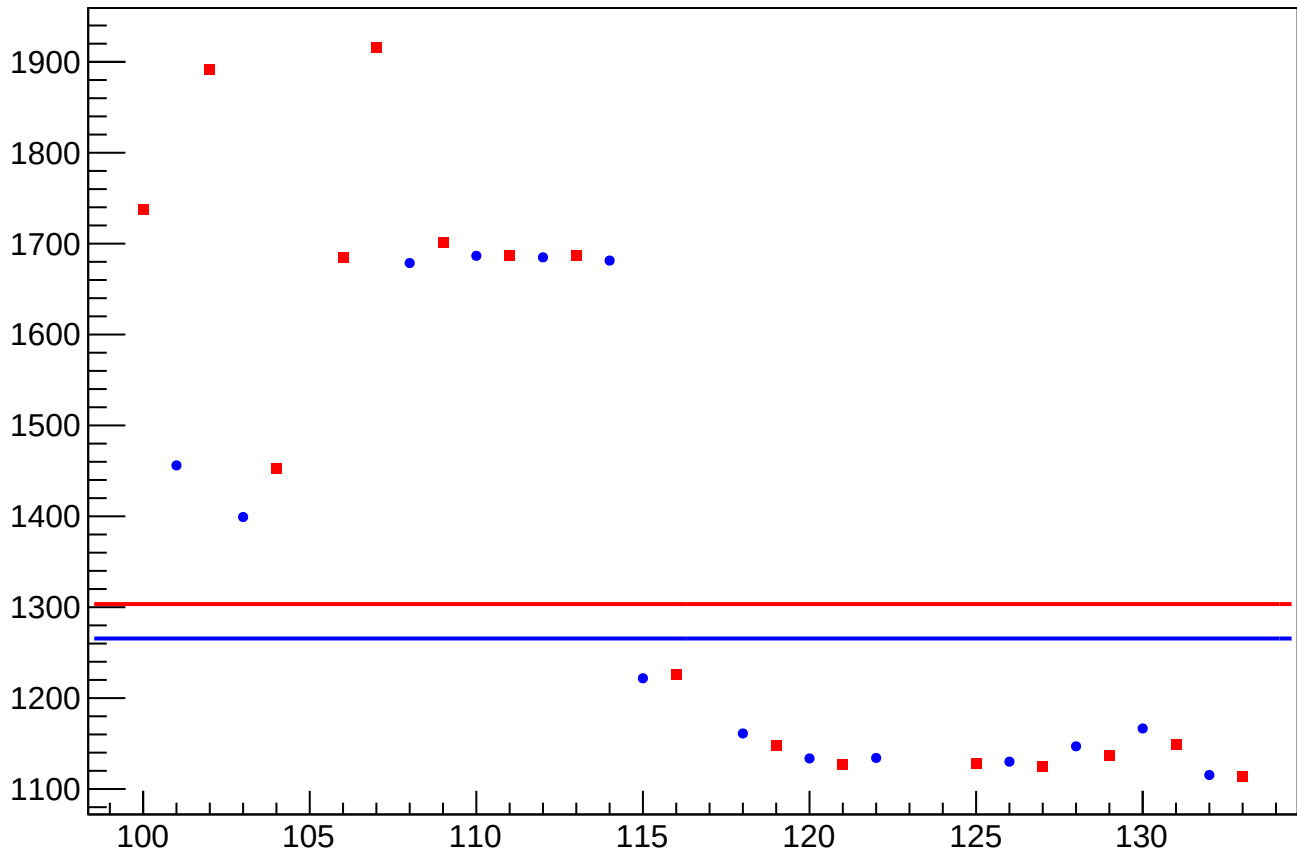
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-282.661 \pm 368.508$   $\chi^2/\text{NDF}$ : 32.5/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1265.585 $\pm$ 0.371  $\chi^2$ /NDF: 279962.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1303.456 $\pm$ 0.367  $\chi^2$ /NDF: 517628.8/15

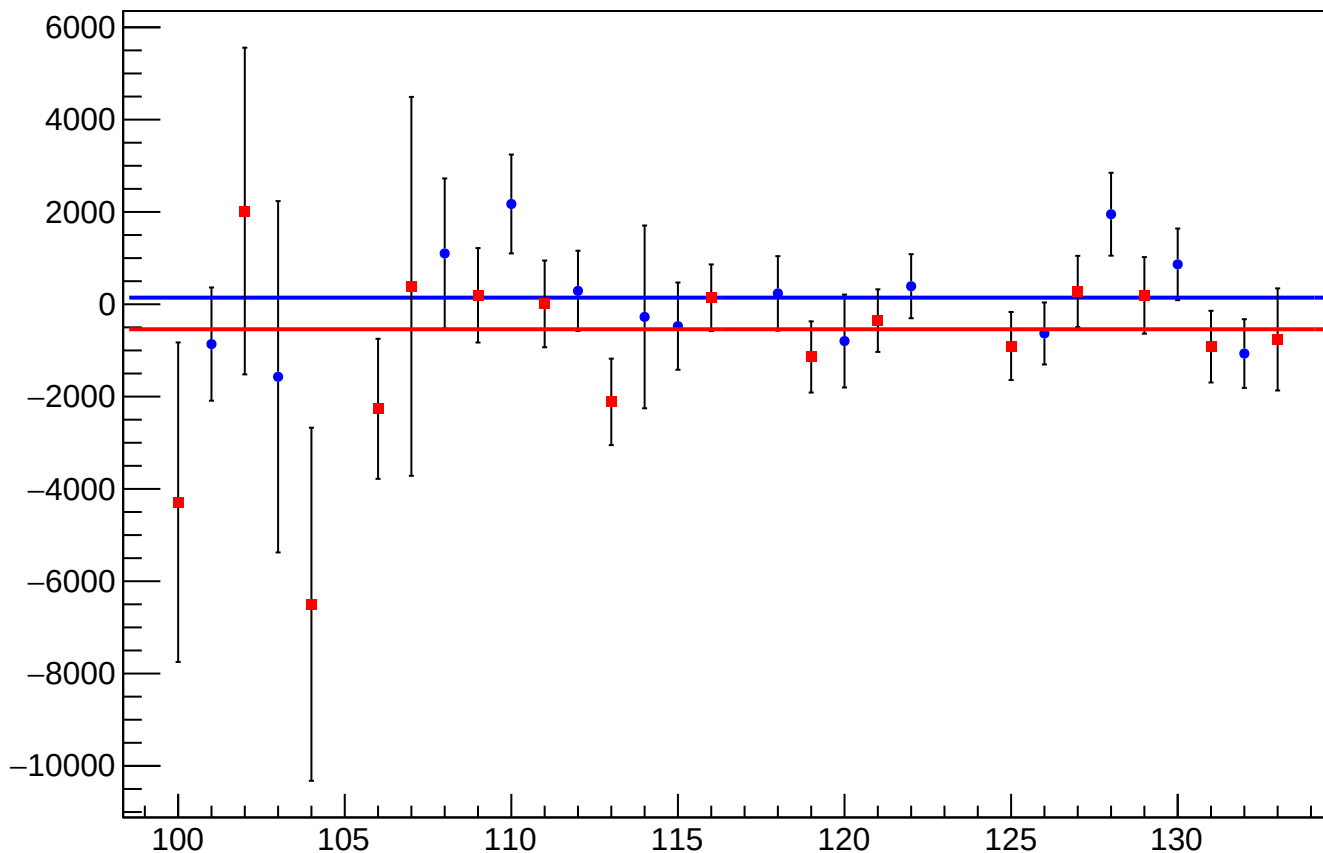
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1284.728 $\pm$ 0.261  $\chi^2$ /NDF: 802871.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_dd\_dit\_correction\_mean vs Slug



Right In: 143.689 $\pm$ 248.375  $\chi^2$ /NDF: 15.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -541.341 $\pm$ 241.306  $\chi^2$ /NDF: 13.1/15

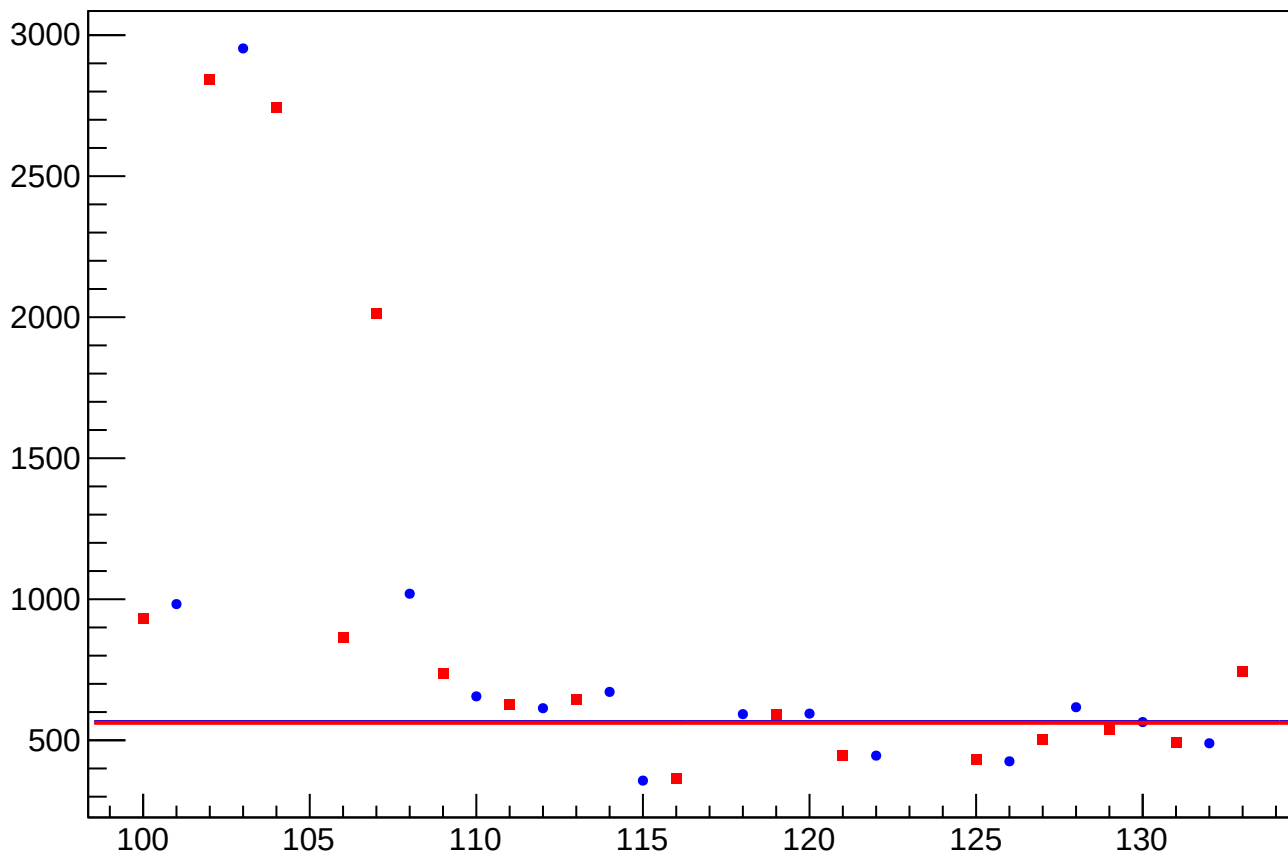
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -208.713 $\pm$ 173.074  $\chi^2$ /NDF: 32.3/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl1\_dd\_dit\_correction\_rms vs Slug



Right In: 564.606 $\pm$ 0.176  $\chi^2$ /NDF: 1476761.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 561.927 $\pm$ 0.171  $\chi^2$ /NDF: 2273009.6/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

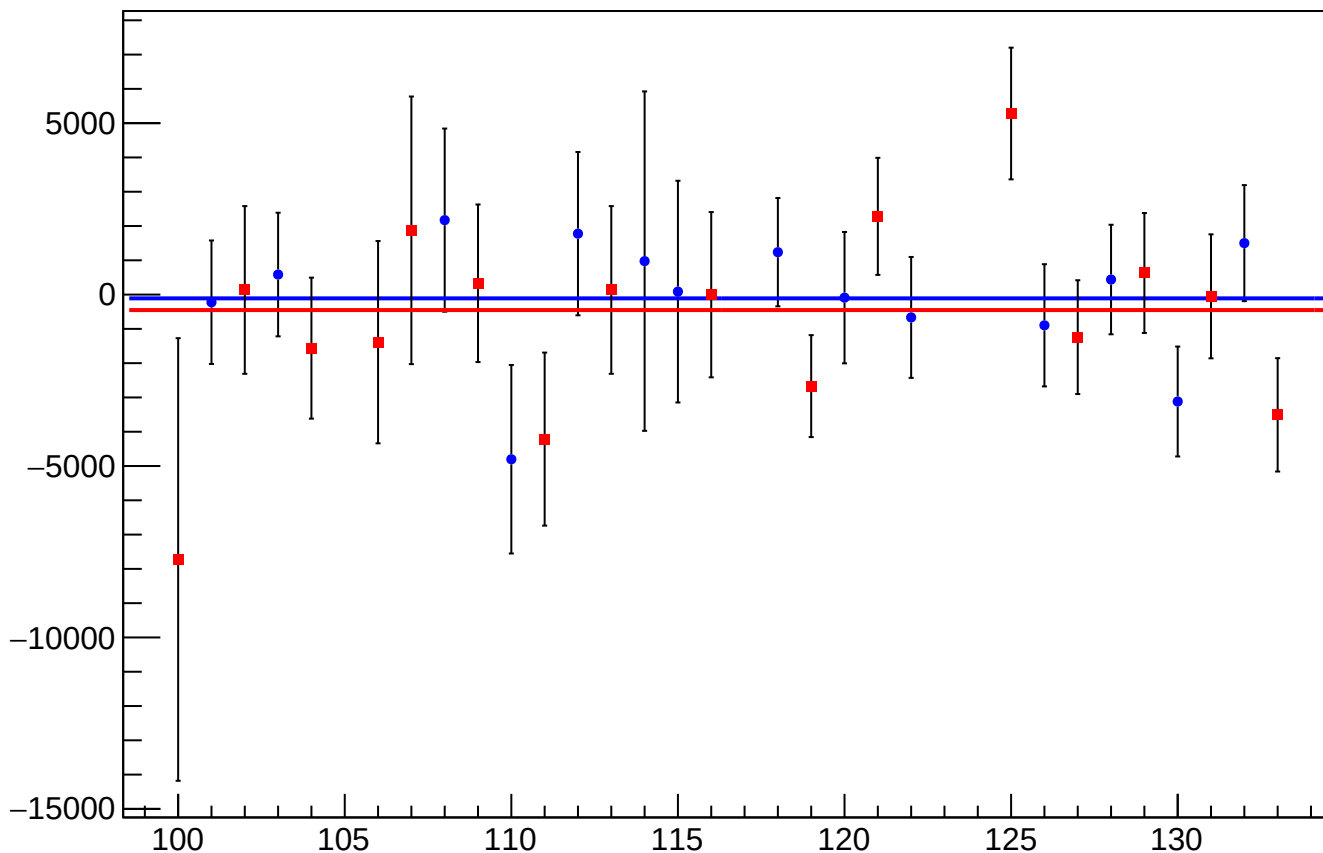
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 563.228 $\pm$ 0.122  $\chi^2$ /NDF: 3749891.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_dit\_asym\_usl\_atl1\_dd\_mean vs Slug



Right In: -109.876+/-524.031  $\chi^2/\text{NDF}$ : 10.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -451.693+/-518.313  $\chi^2/\text{NDF}$ : 22.3/15

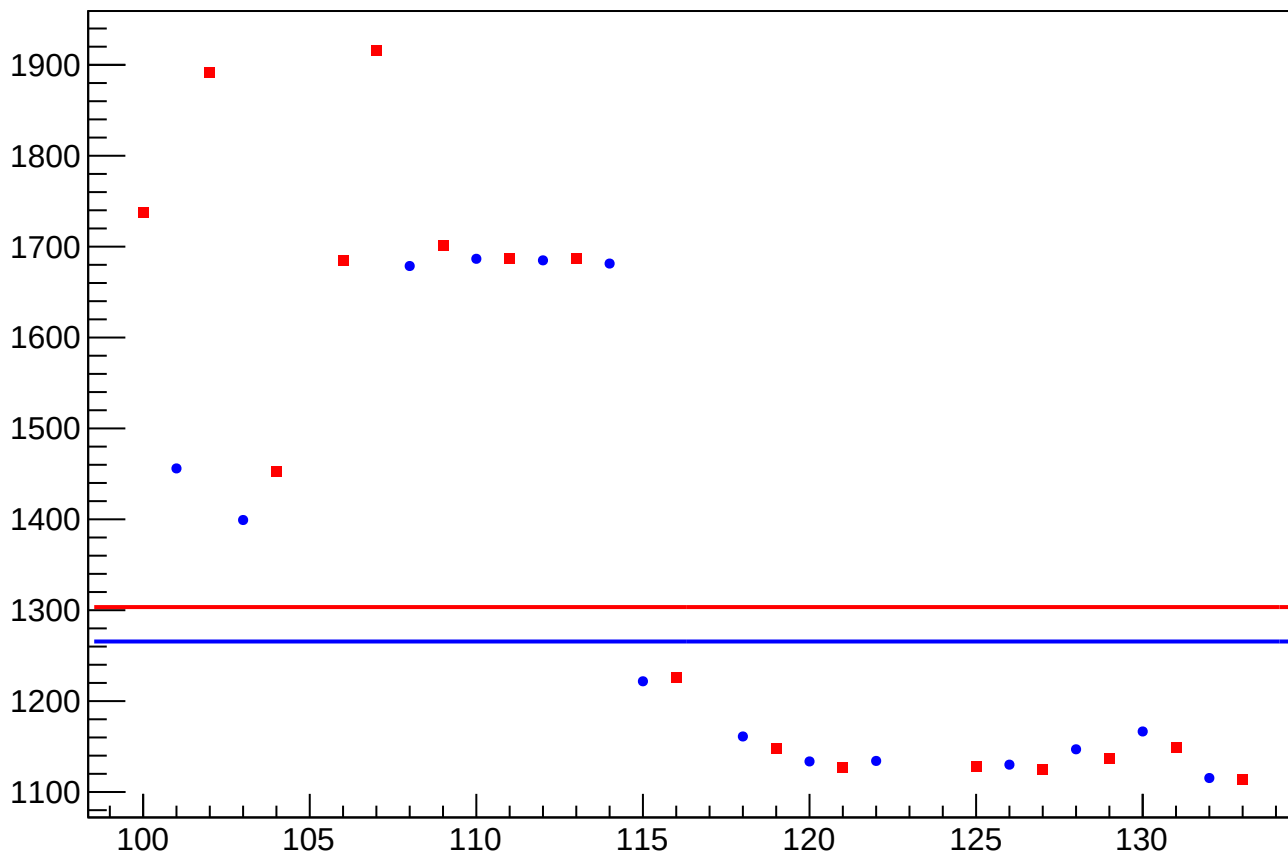
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -282.660+/-368.508  $\chi^2/\text{NDF}$ : 32.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1265.585+/-0.371  $\chi^2$ /NDF: 279962.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1303.456+/-0.367  $\chi^2$ /NDF: 517628.3/15

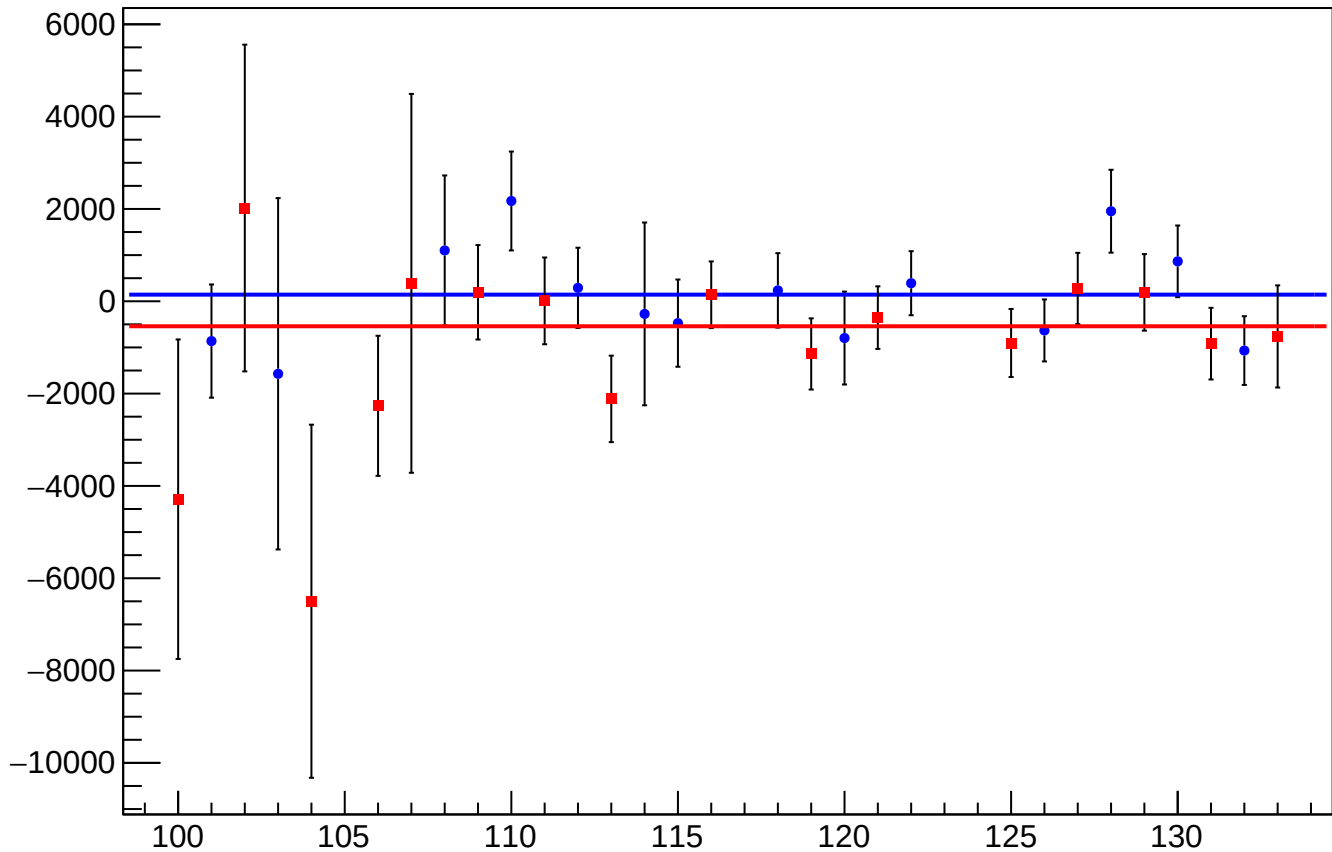
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 1284.728+/-0.261  $\chi^2$ /NDF: 802871.1/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 143.689 $\pm$ 248.375  $\chi^2$ /NDF: 15.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -541.342 $\pm$ 241.306  $\chi^2$ /NDF: 13.1/15

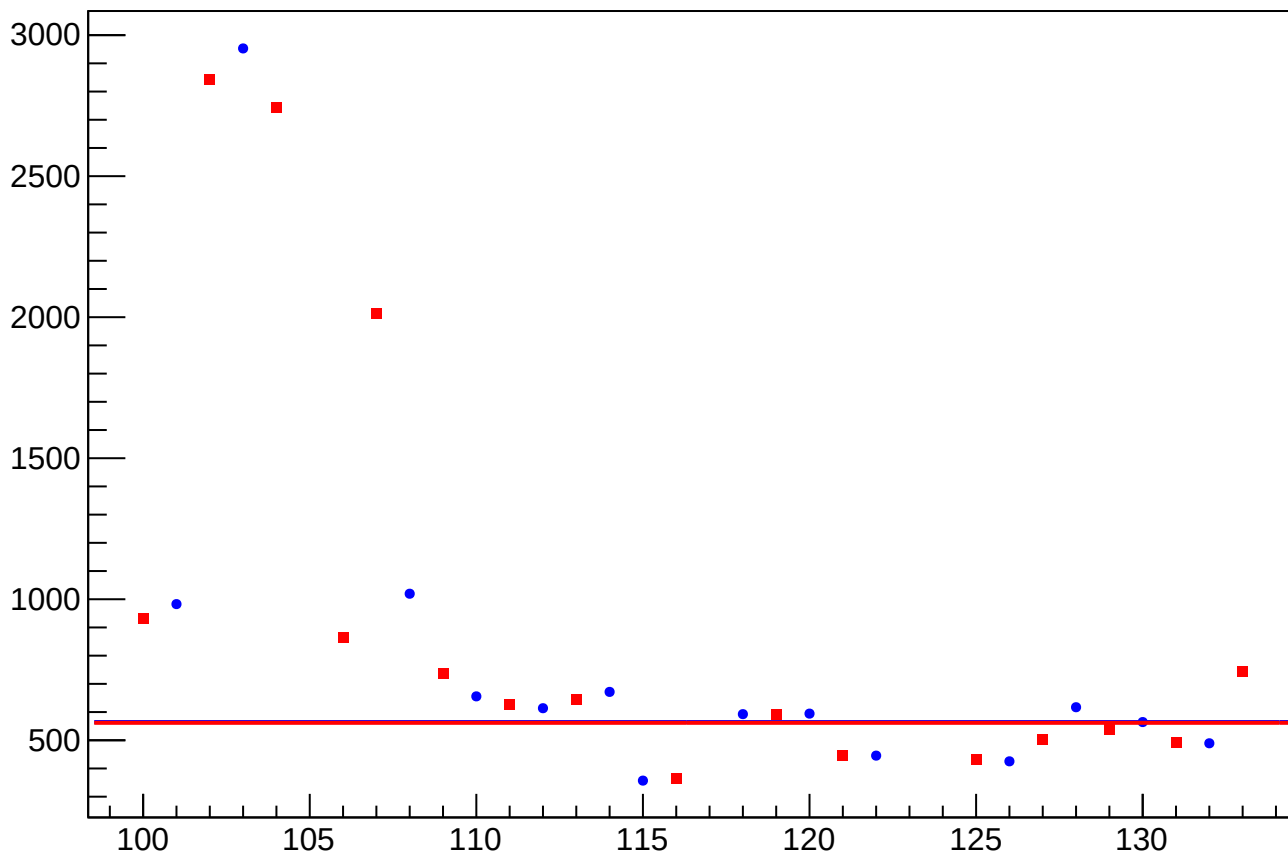
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -208.713 $\pm$ 173.074  $\chi^2$ /NDF: 32.3/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 564.606+/-0.176  $\chi^2/\text{NDF}$ : 1476759.5/13

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

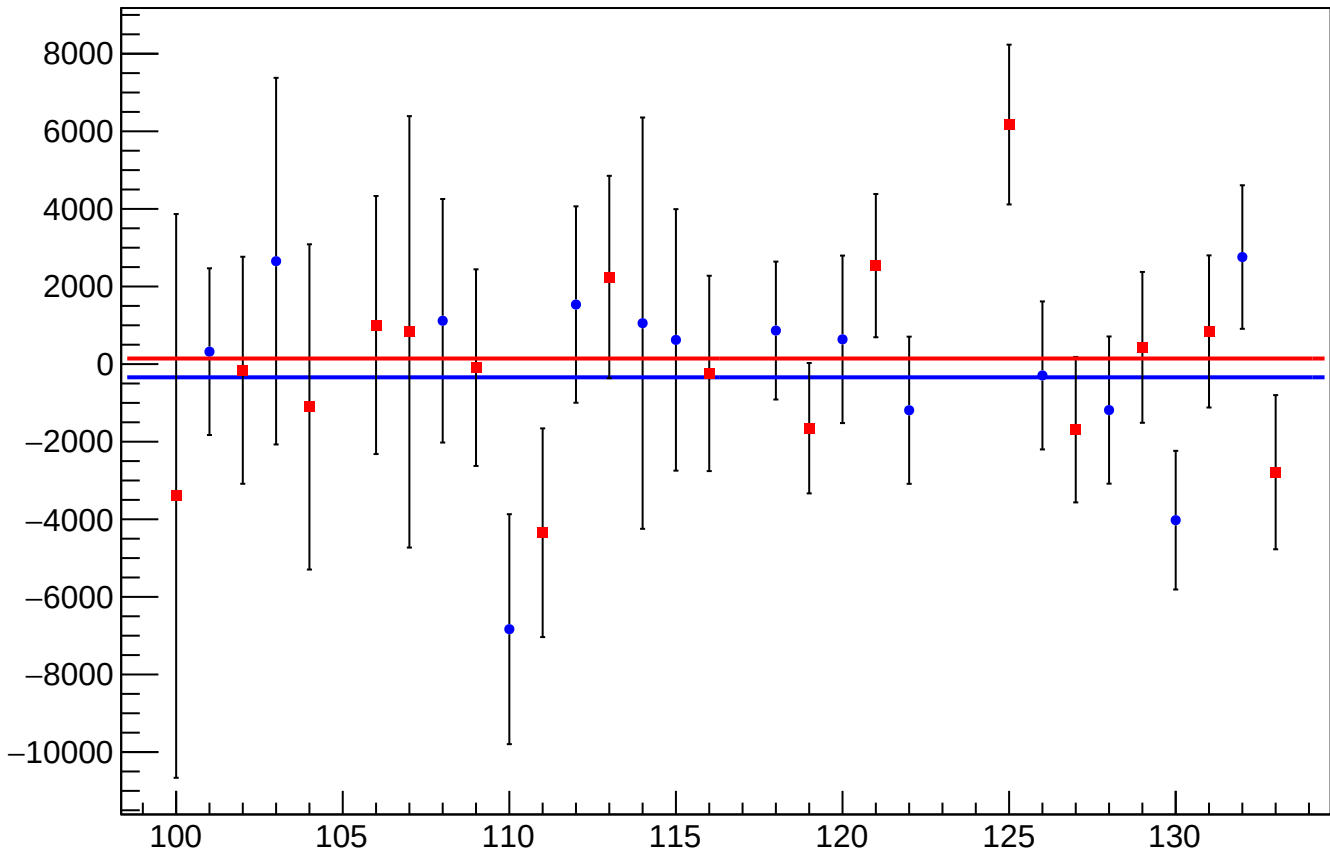
Right Out: 561.927+/-0.171  $\chi^2/\text{NDF}$ : 2273010.3/15

All: 563.228+/-0.122  $\chi^2/\text{NDF}$ : 3749889.5/29

- 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\_usl\_atl1\_dd\_mean vs Slug



Right In: -340.494+/-605.907  $\chi^2/\text{NDF}$ : 14.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 143.842+/-591.271  $\chi^2/\text{NDF}$ : 18.6/15

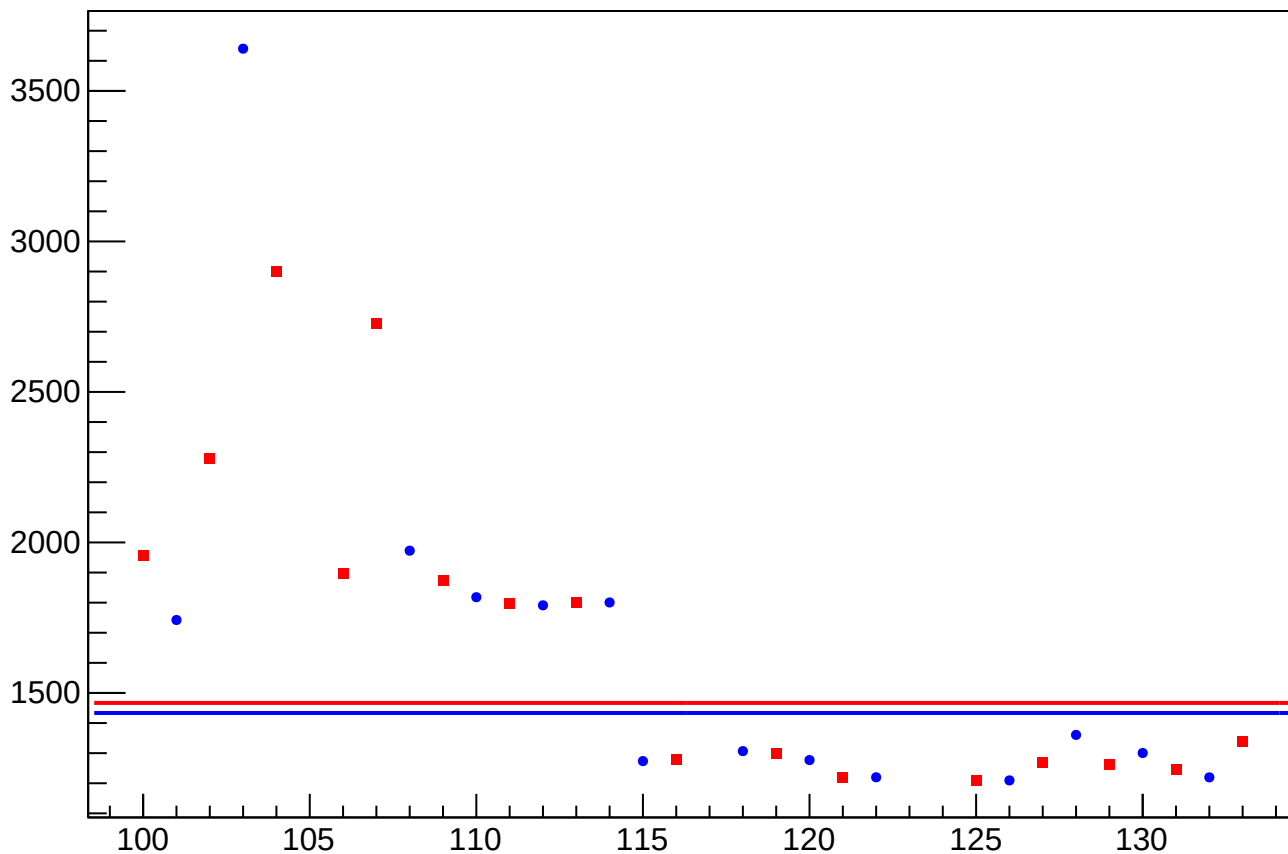
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -92.405+/-423.171  $\chi^2/\text{NDF}$ : 33.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_rms vs Slug



Right In: 1433.488+/-0.428  $\chi^2/\text{NDF}$ : 738795.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1466.861+/-0.418  $\chi^2/\text{NDF}$ : 824509.0/15

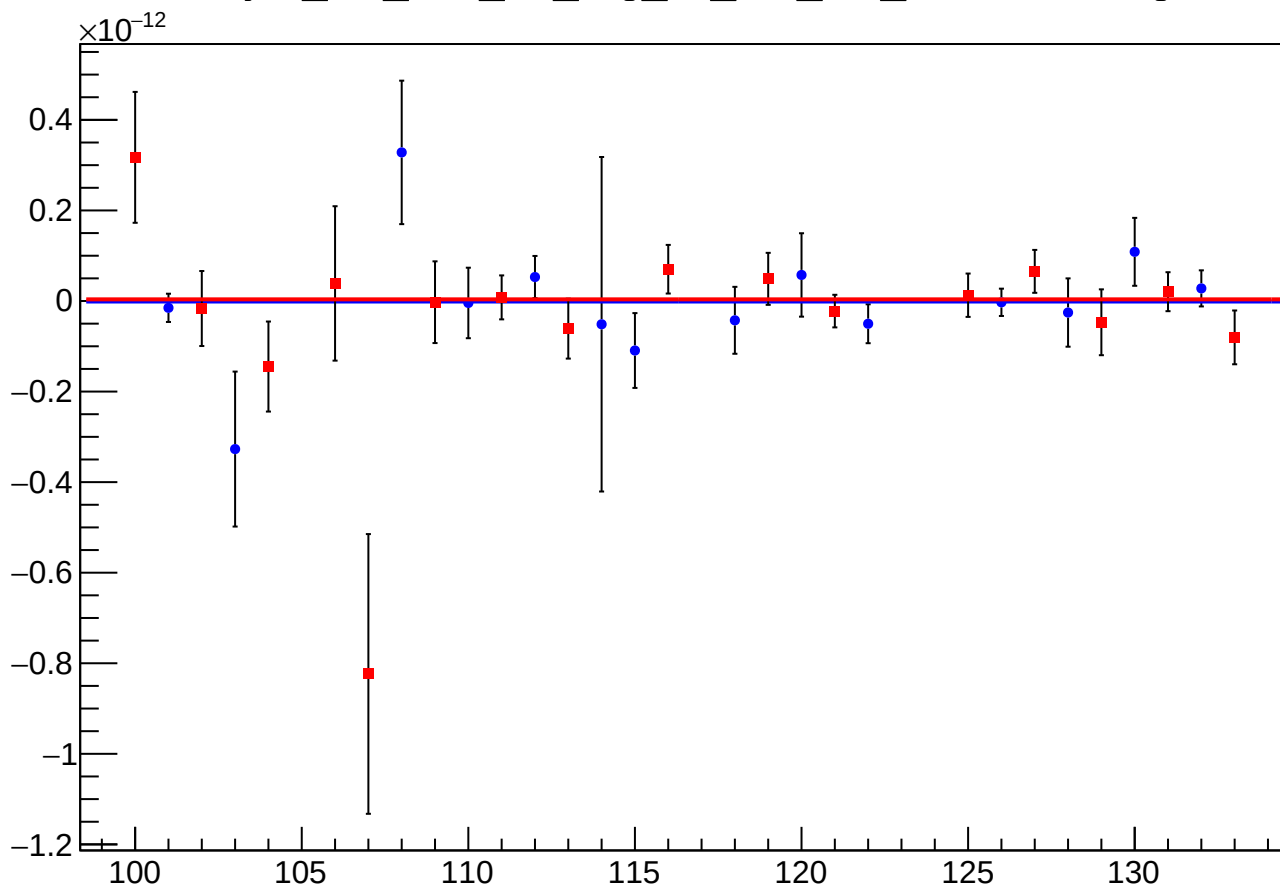
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1450.582+/-0.299  $\chi^2/\text{NDF}$ : 1566411.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 16.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 22.2/15

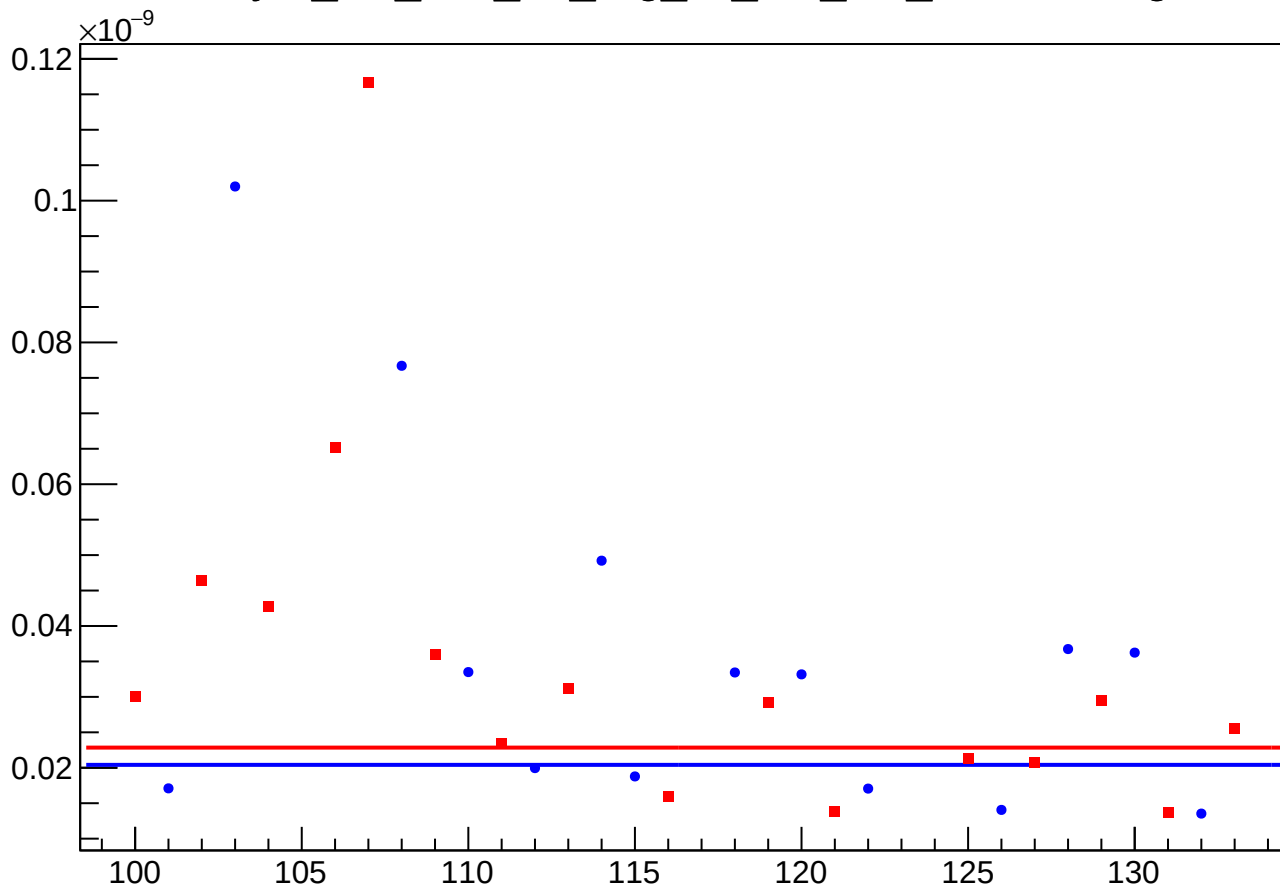
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 38.3/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1243397.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 933529.2/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

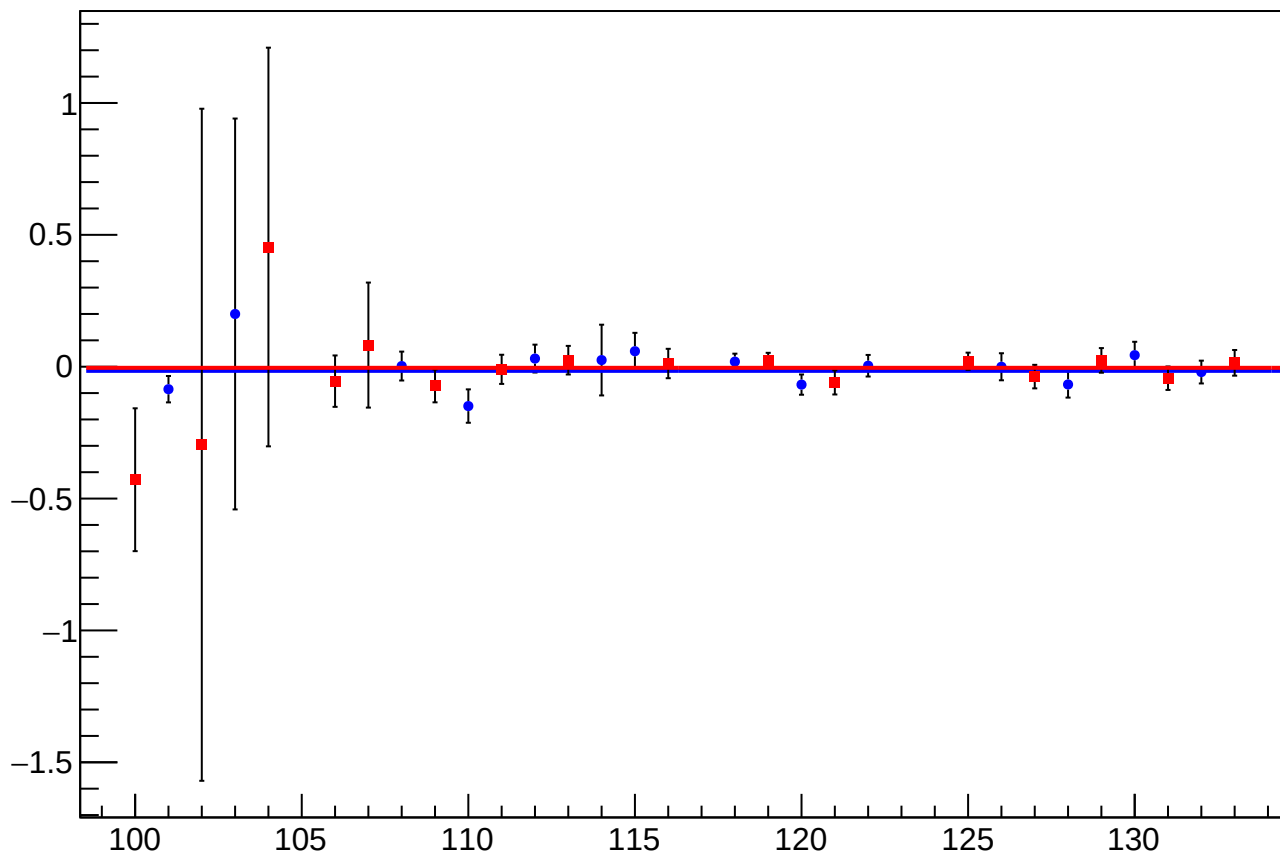
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2204266.0/29

- 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:  $-0.016 \pm 0.013$   $\chi^2/\text{NDF}$ : 14.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.004 \pm 0.013$   $\chi^2/\text{NDF}$ : 9.7/15

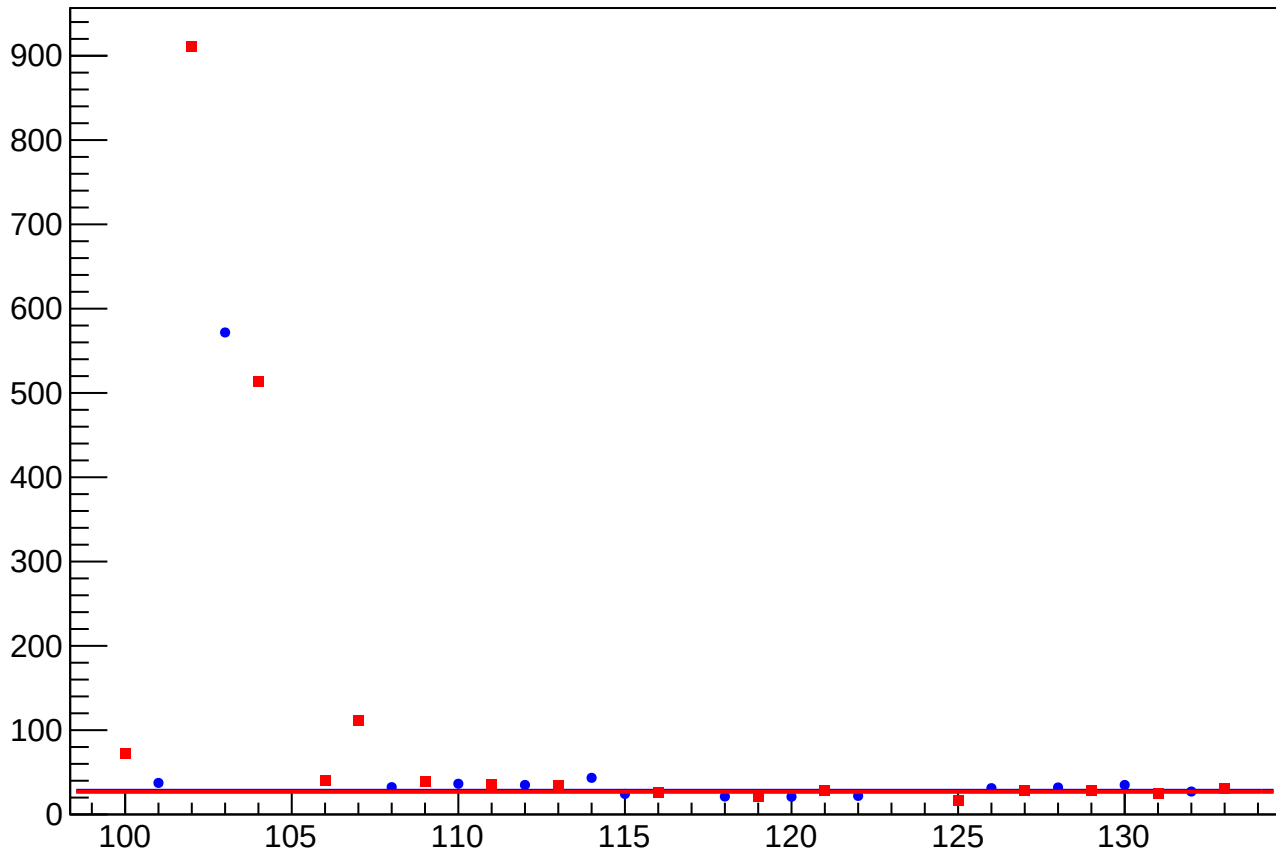
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.010 \pm 0.009$   $\chi^2/\text{NDF}$ : 24.6/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 28.067+/-0.009  $\chi^2/\text{NDF}$ : 1530208.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26.875+/-0.009  $\chi^2/\text{NDF}$ : 2596339.0/15

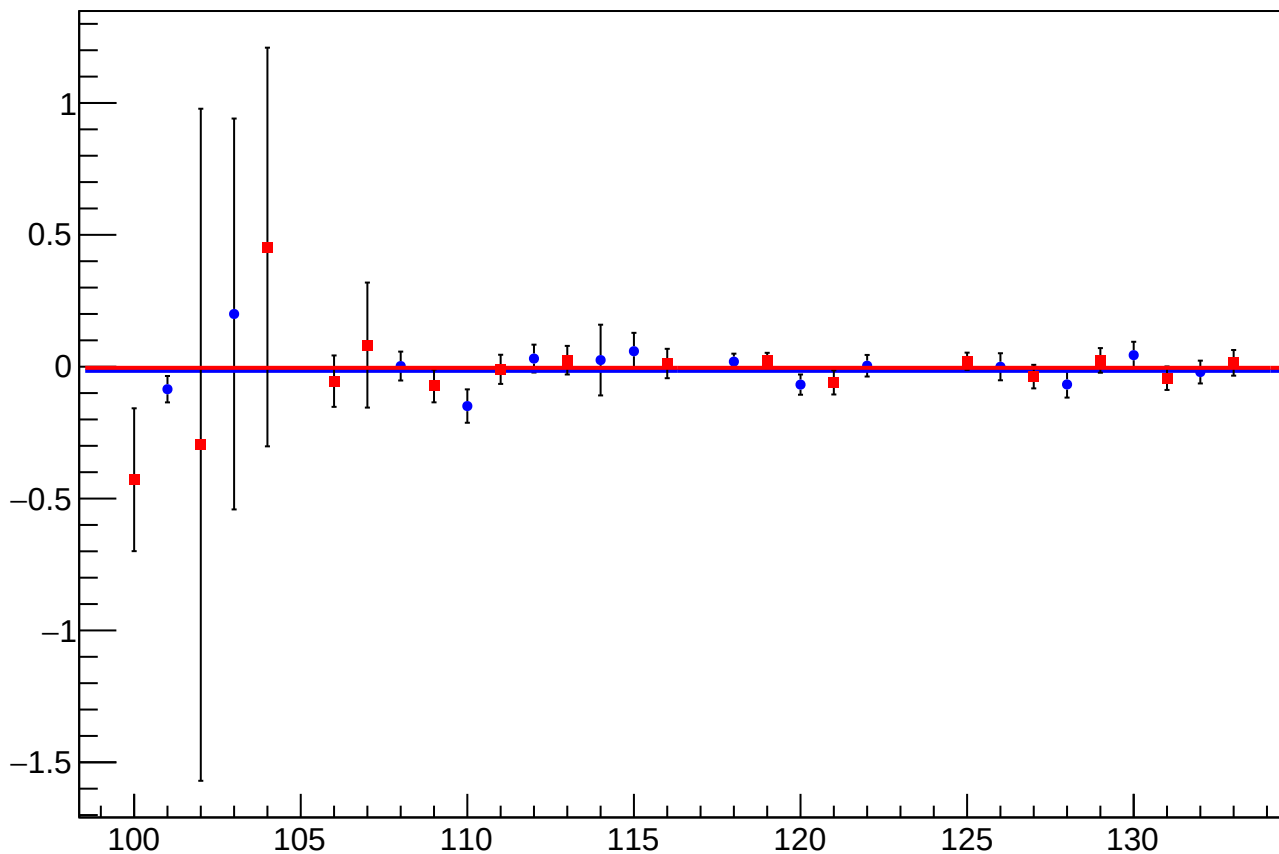
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.462+/-0.007  $\chi^2/\text{NDF}$ : 4134738.6/29

- 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:  $-0.016 \pm 0.013$   $\chi^2/\text{NDF}$ : 14.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.004 \pm 0.013$   $\chi^2/\text{NDF}$ : 9.7/15

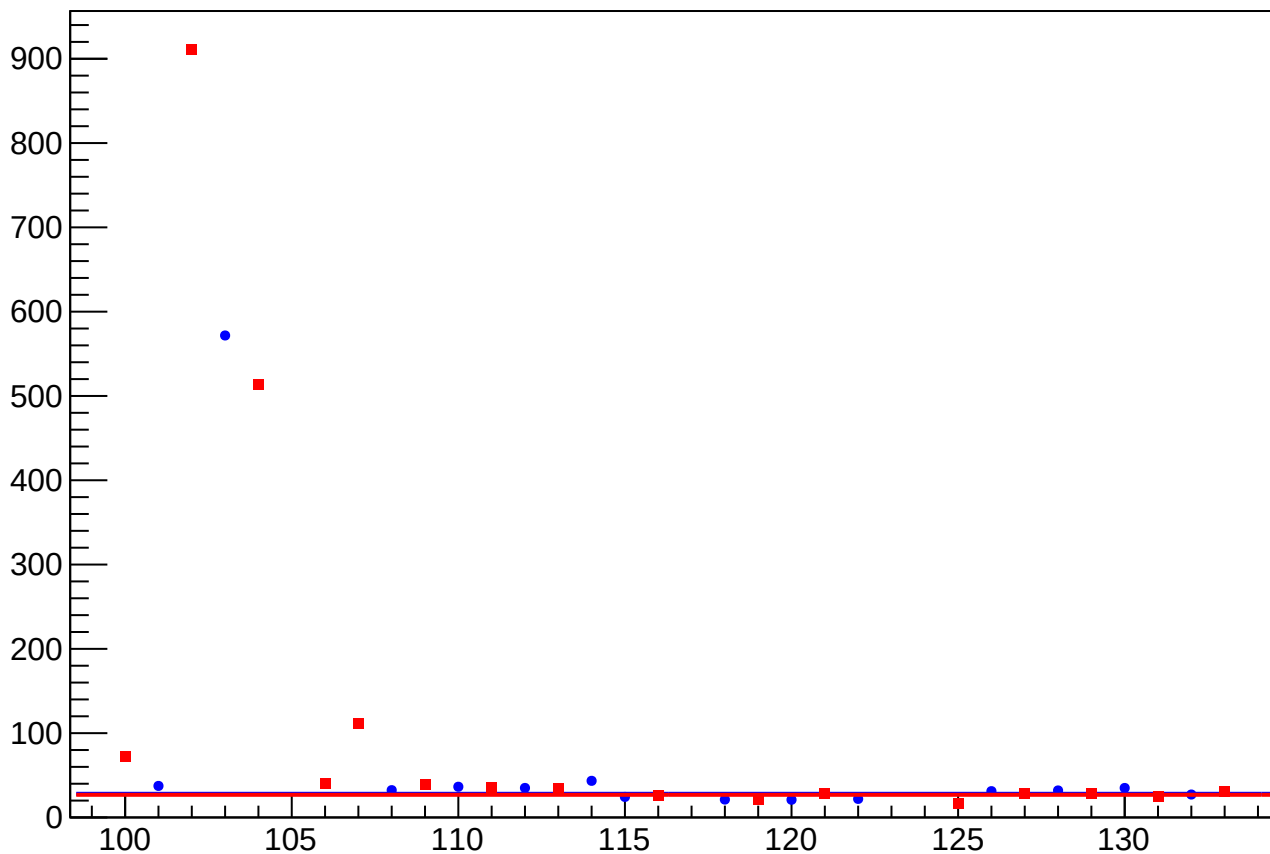
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.010 \pm 0.009$   $\chi^2/\text{NDF}$ : 24.6/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 28.067+/-0.009  $\chi^2/\text{NDF}$ : 1530208.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26.875+/-0.009  $\chi^2/\text{NDF}$ : 2596339.0/15

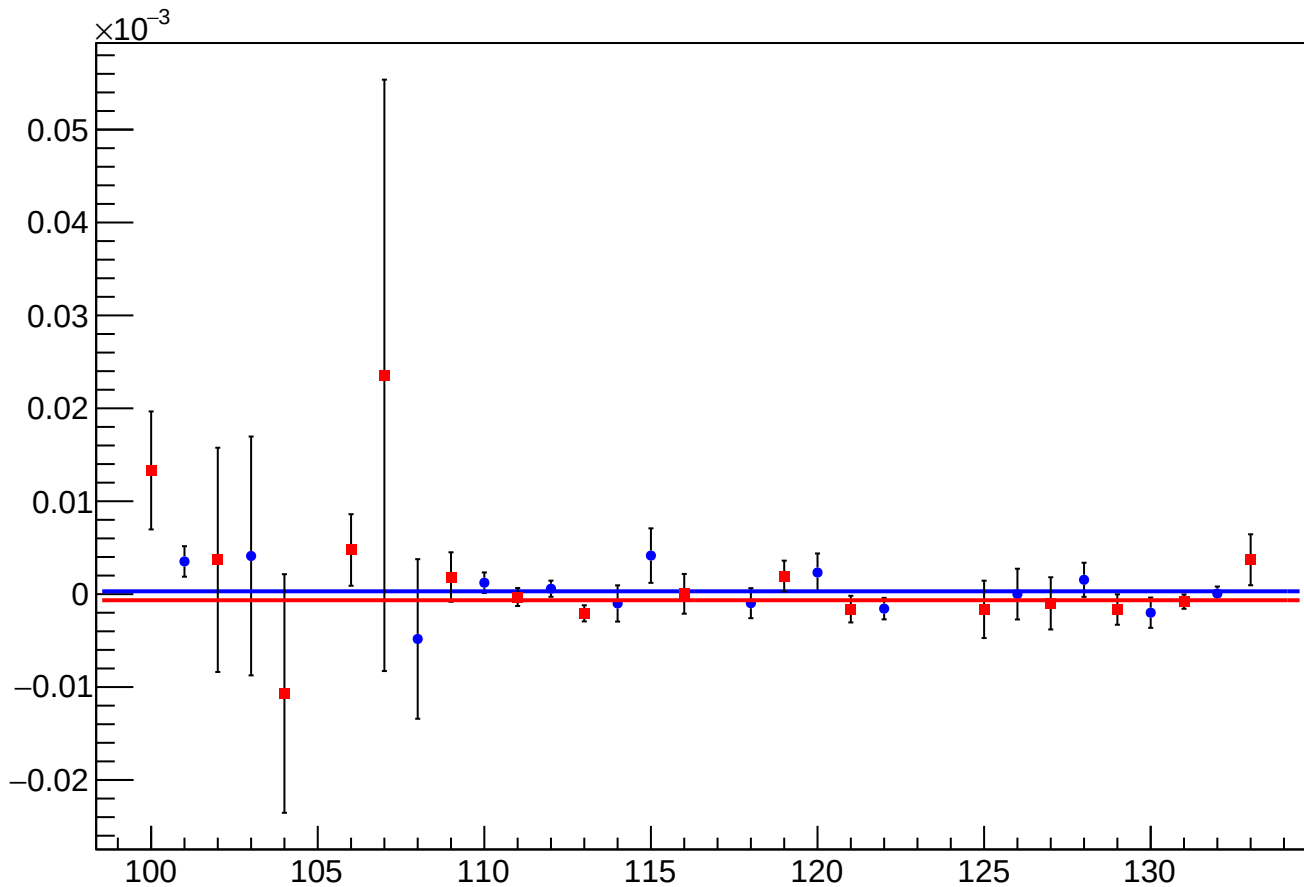
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.462+/-0.007  $\chi^2/\text{NDF}$ : 4134738.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.9/15

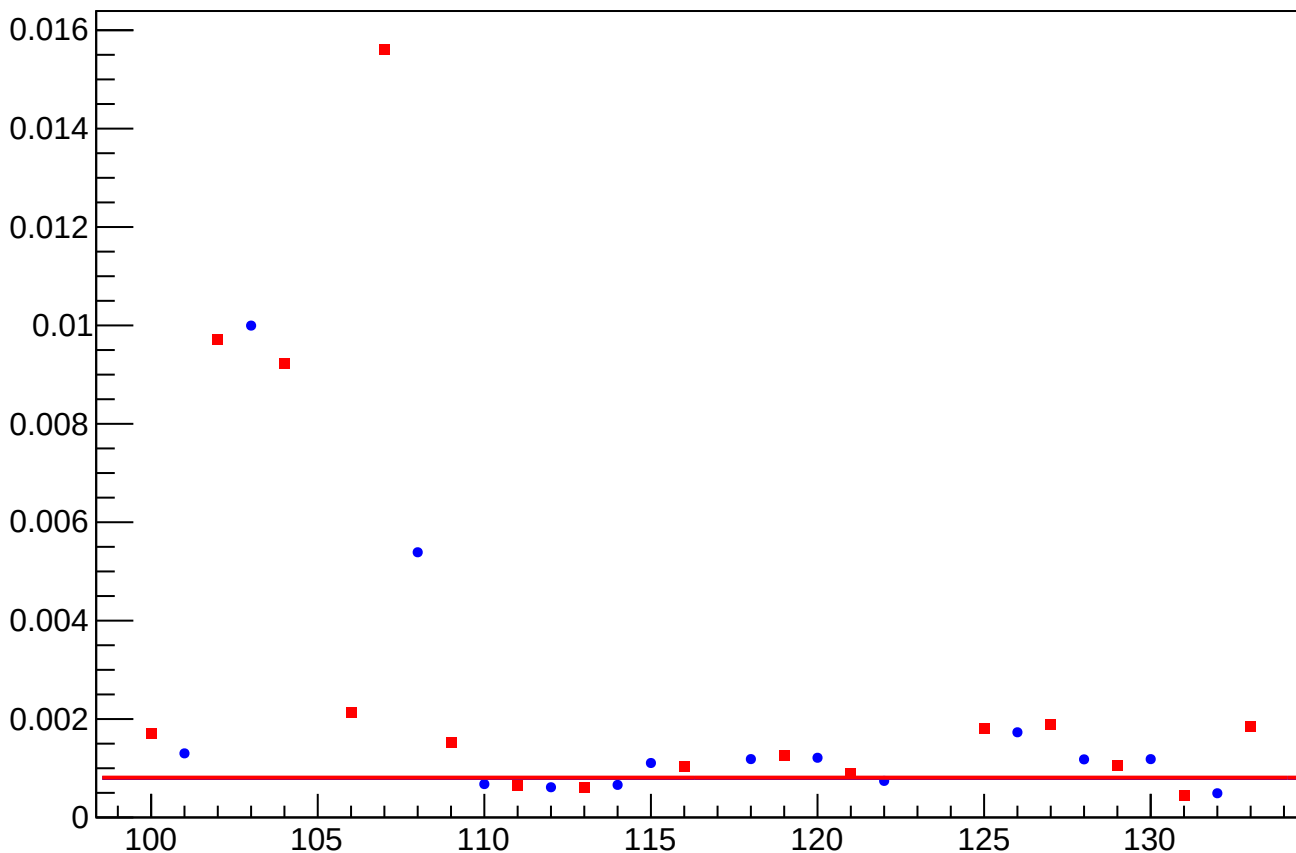
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 34.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2886644.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4436201.2/15

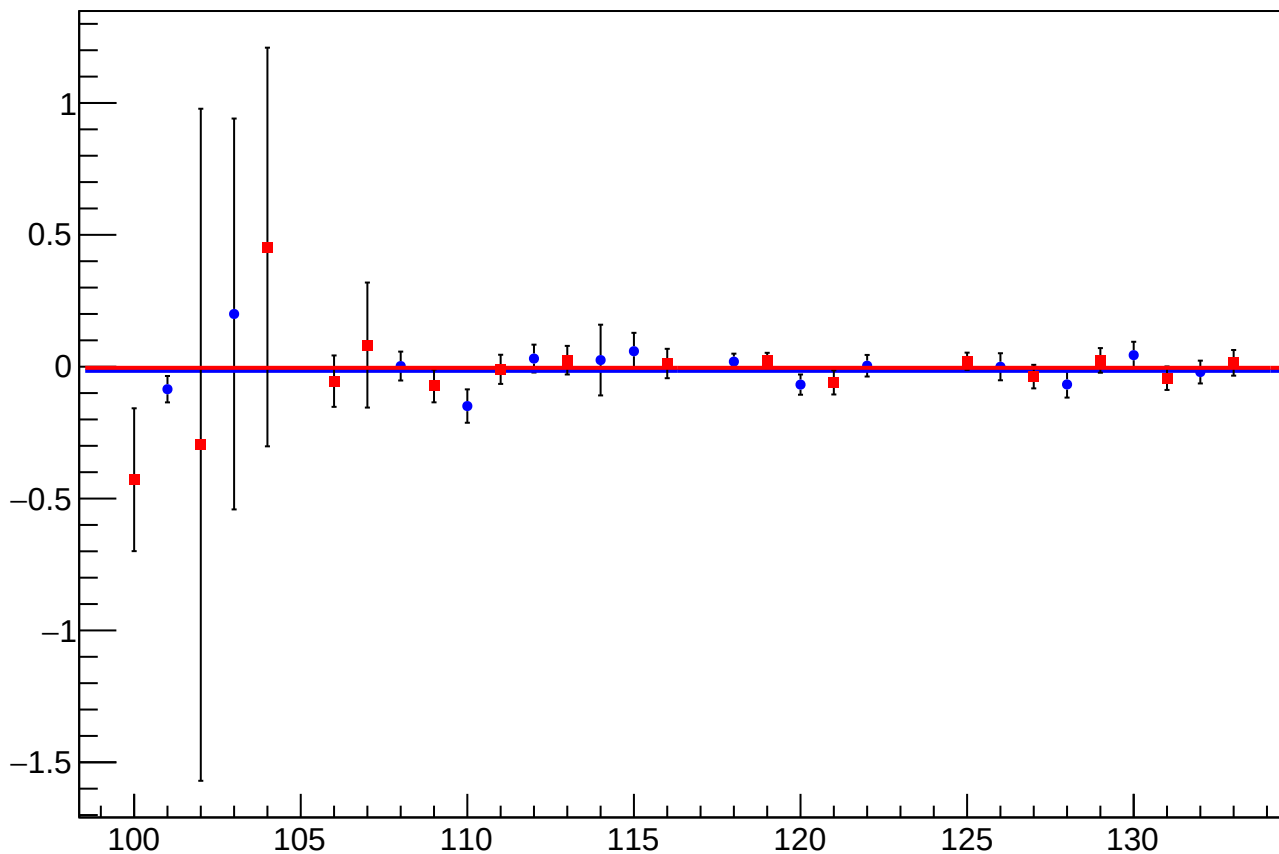
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 7323134.6/29

- 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: -0.016+/-0.013  $\chi^2/\text{NDF}$ : 14.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.004+/-0.013  $\chi^2/\text{NDF}$ : 9.7/15

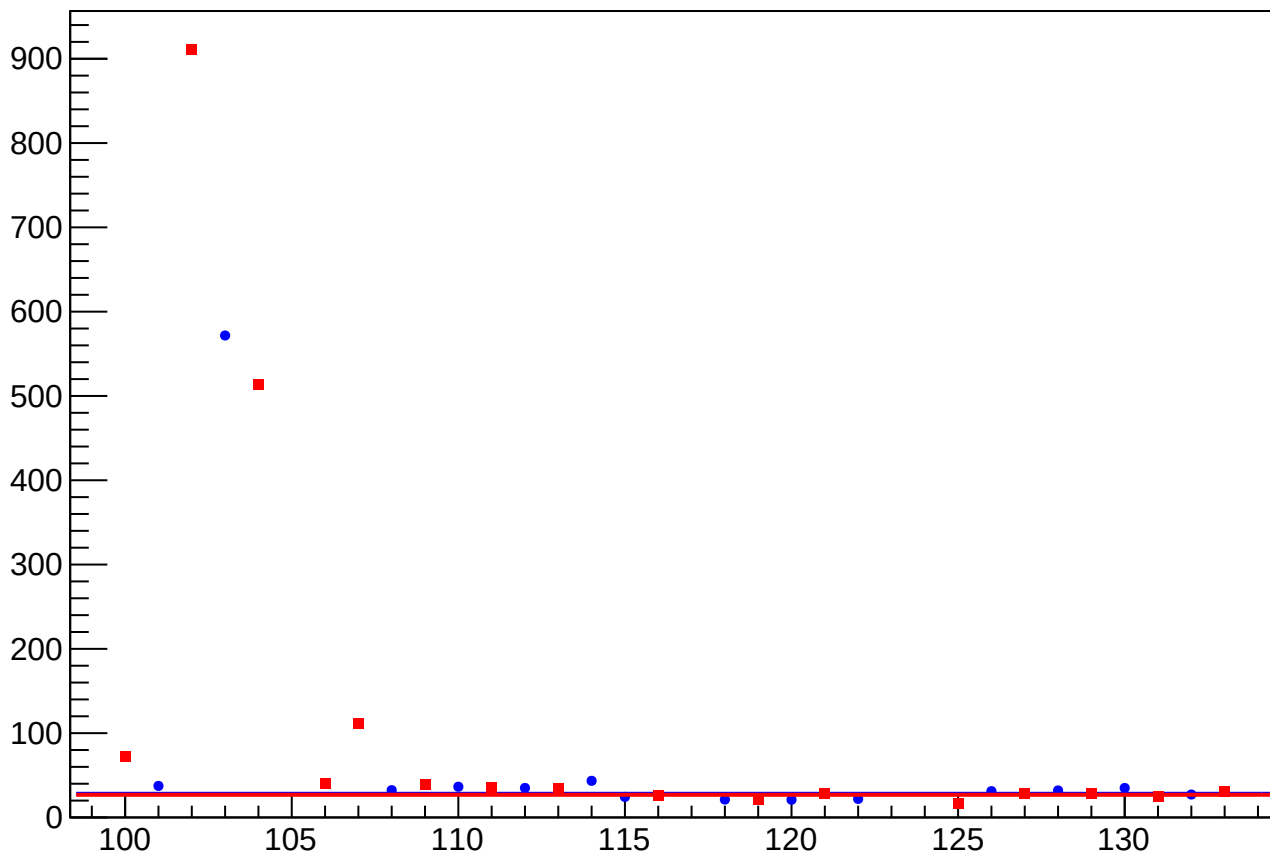
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.010+/-0.009  $\chi^2/\text{NDF}$ : 24.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 28.067+/-0.009  $\chi^2/\text{NDF}$ : 1530202.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26.875+/-0.009  $\chi^2/\text{NDF}$ : 2596359.3/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

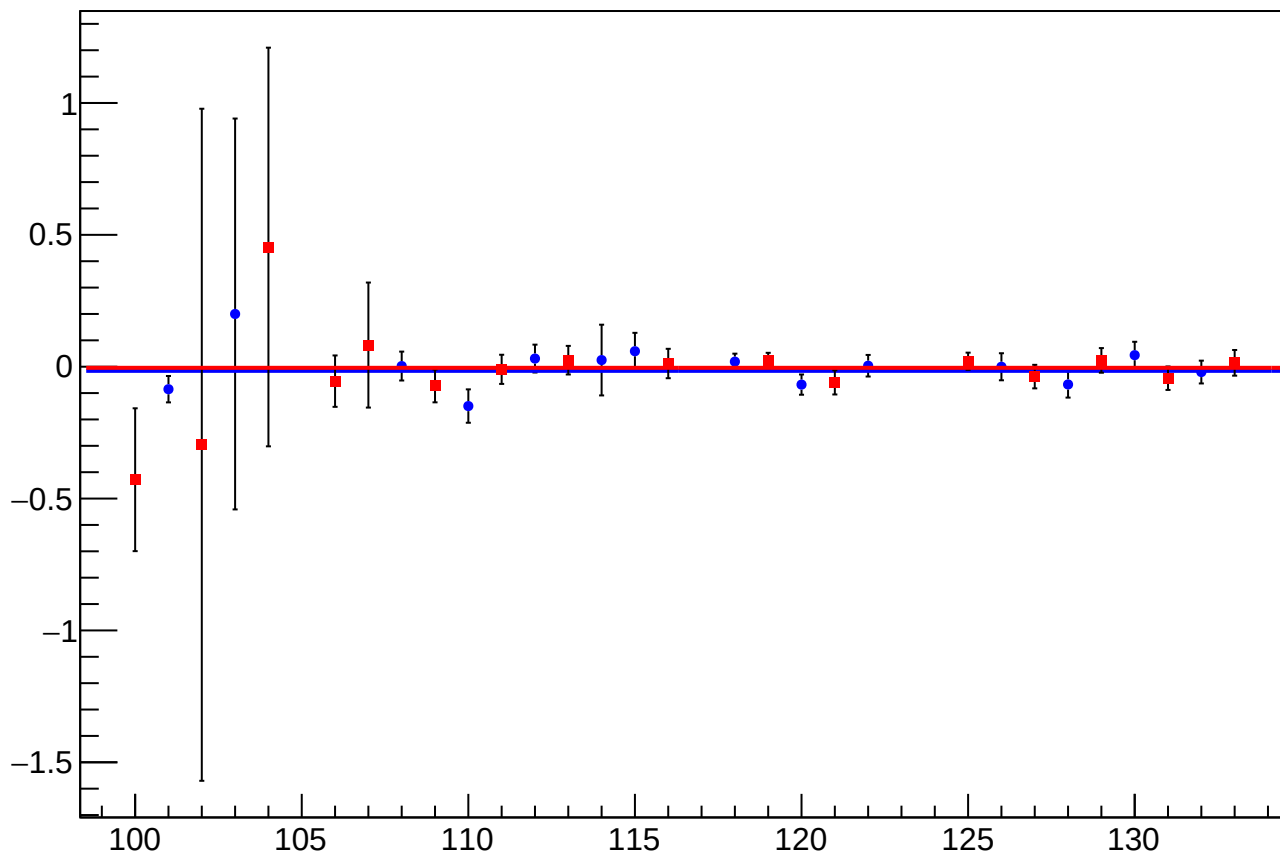
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.462+/-0.007  $\chi^2/\text{NDF}$ : 4134753.2/29

- 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:  $-0.016 \pm 0.013$   $\chi^2/\text{NDF}$ : 14.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.004 \pm 0.013$   $\chi^2/\text{NDF}$ : 9.7/15

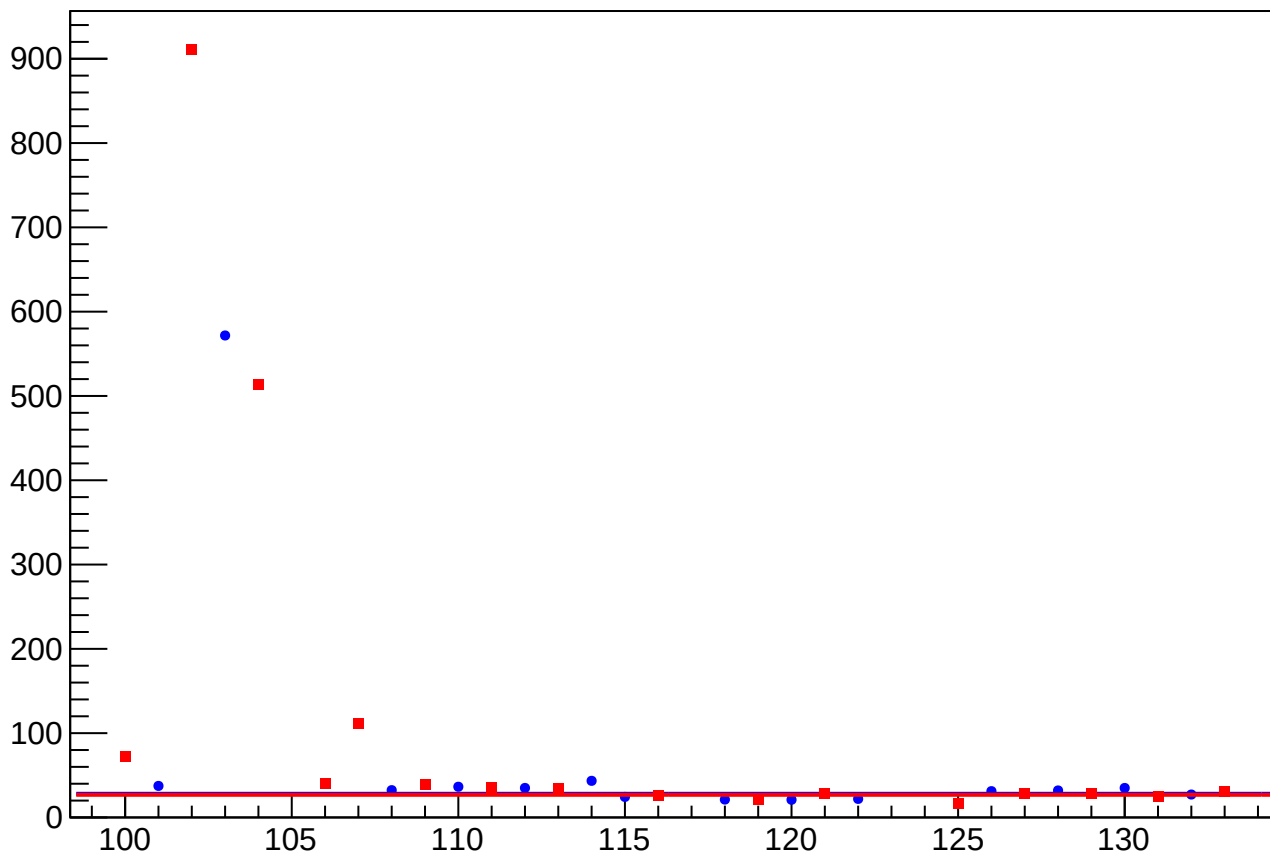
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.010 \pm 0.009$   $\chi^2/\text{NDF}$ : 24.6/29

- 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: 28.067+/-0.009  $\chi^2/\text{NDF}$ : 1530202.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26.875+/-0.009  $\chi^2/\text{NDF}$ : 2596359.3/15

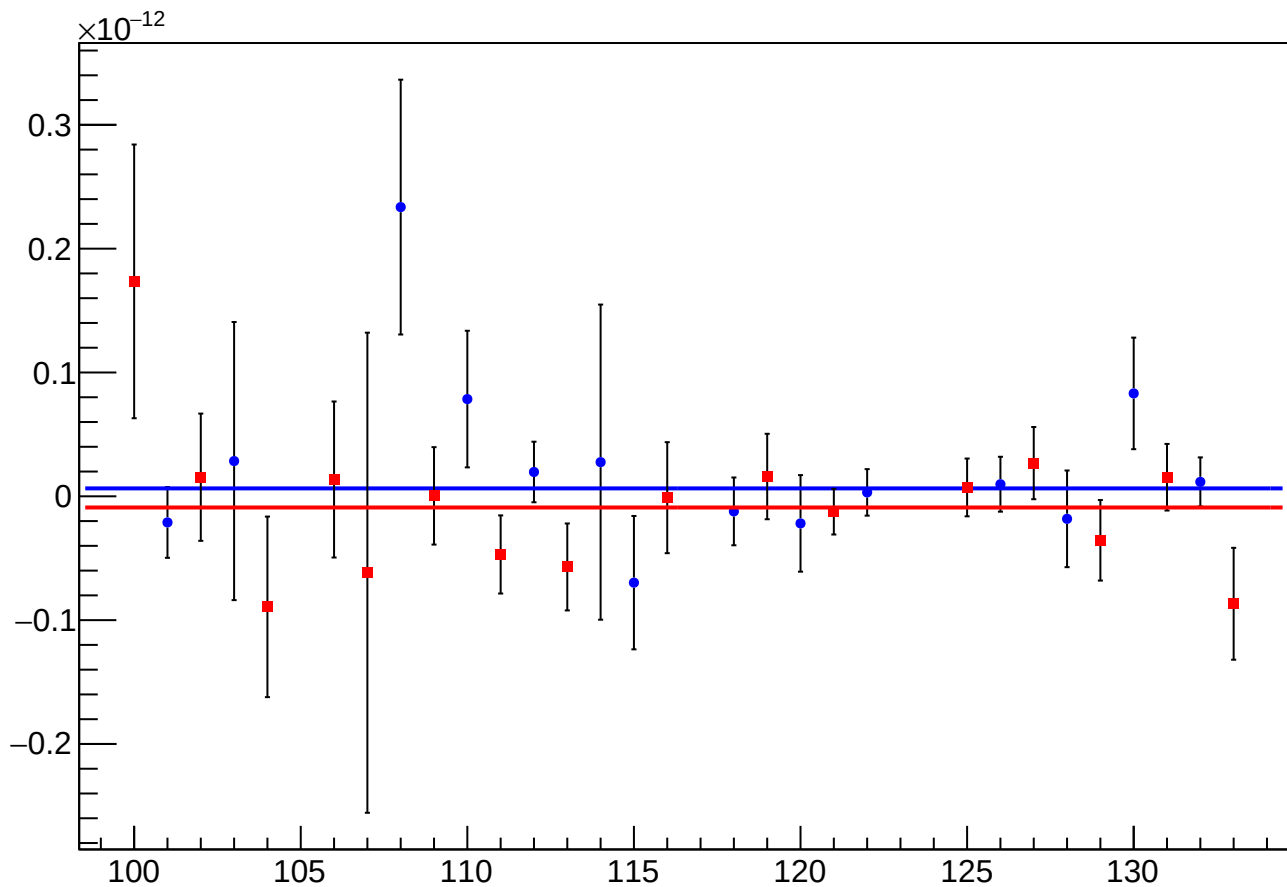
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.462+/-0.007  $\chi^2/\text{NDF}$ : 4134753.2/29

- 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  $\chi^2/\text{NDF}$ : 14.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.8/15

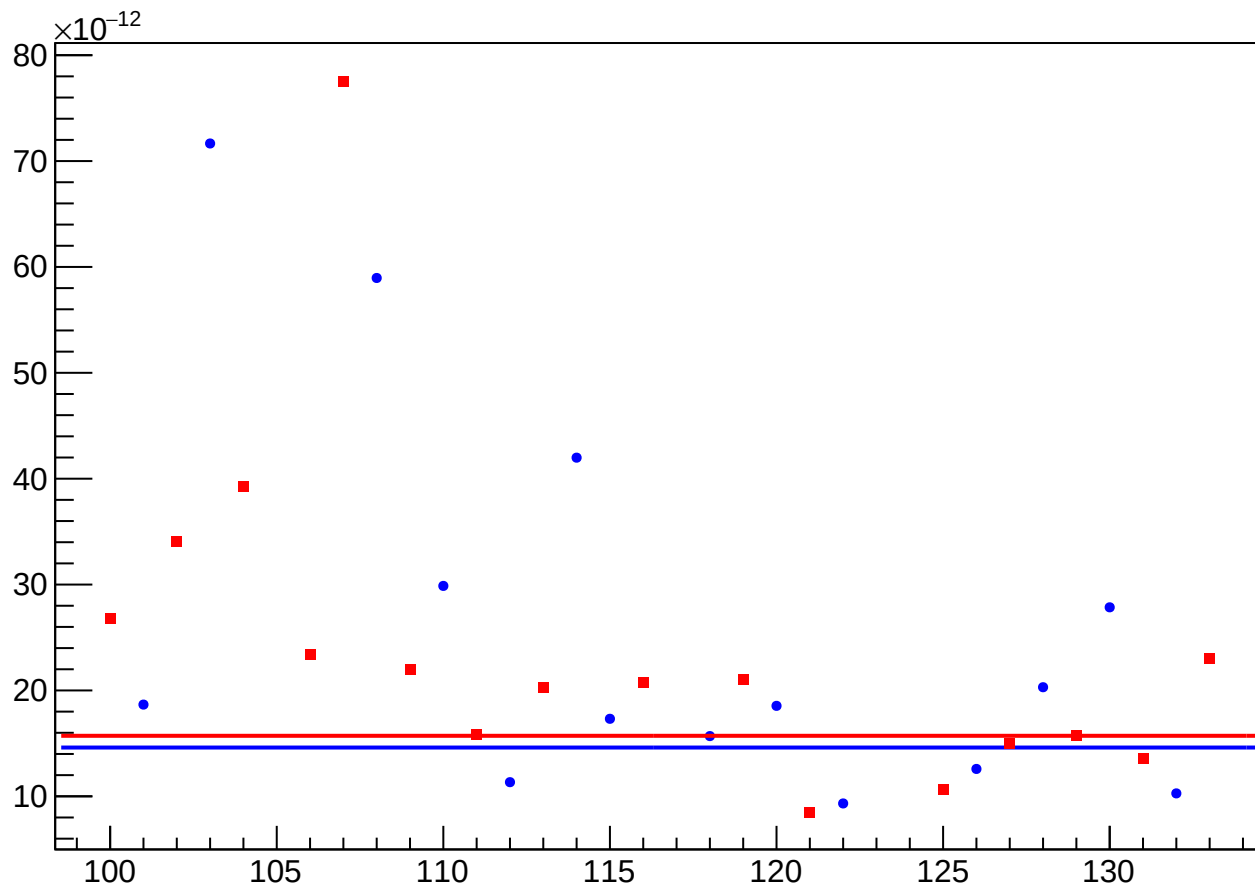
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 30.7/29

- 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  $\chi^2/\text{NDF}$ : 1723983.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1345280.9/15

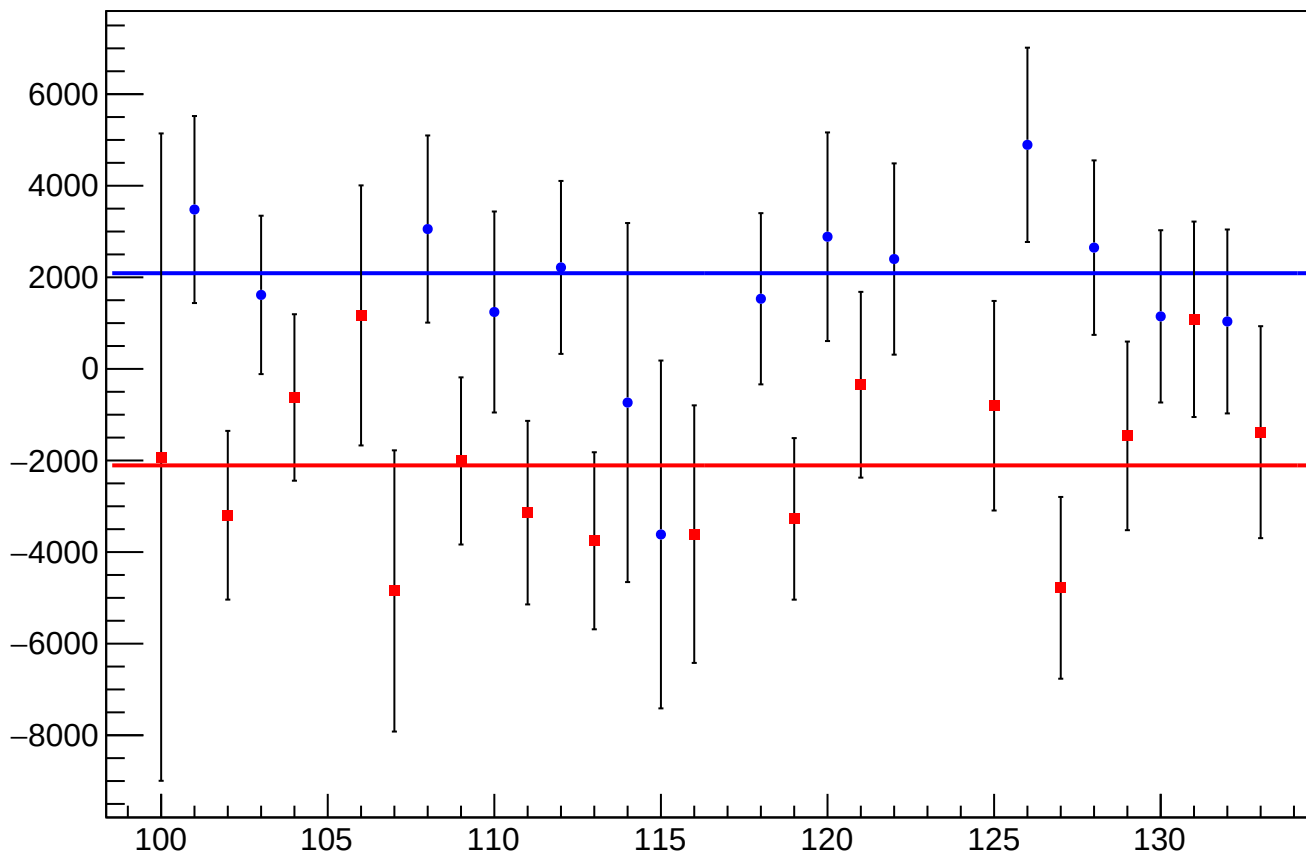
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3086371.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 2089.762+/-561.455  $\chi^2/\text{NDF}$ : 6.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2107.074+/-539.034  $\chi^2/\text{NDF}$ : 10.2/15

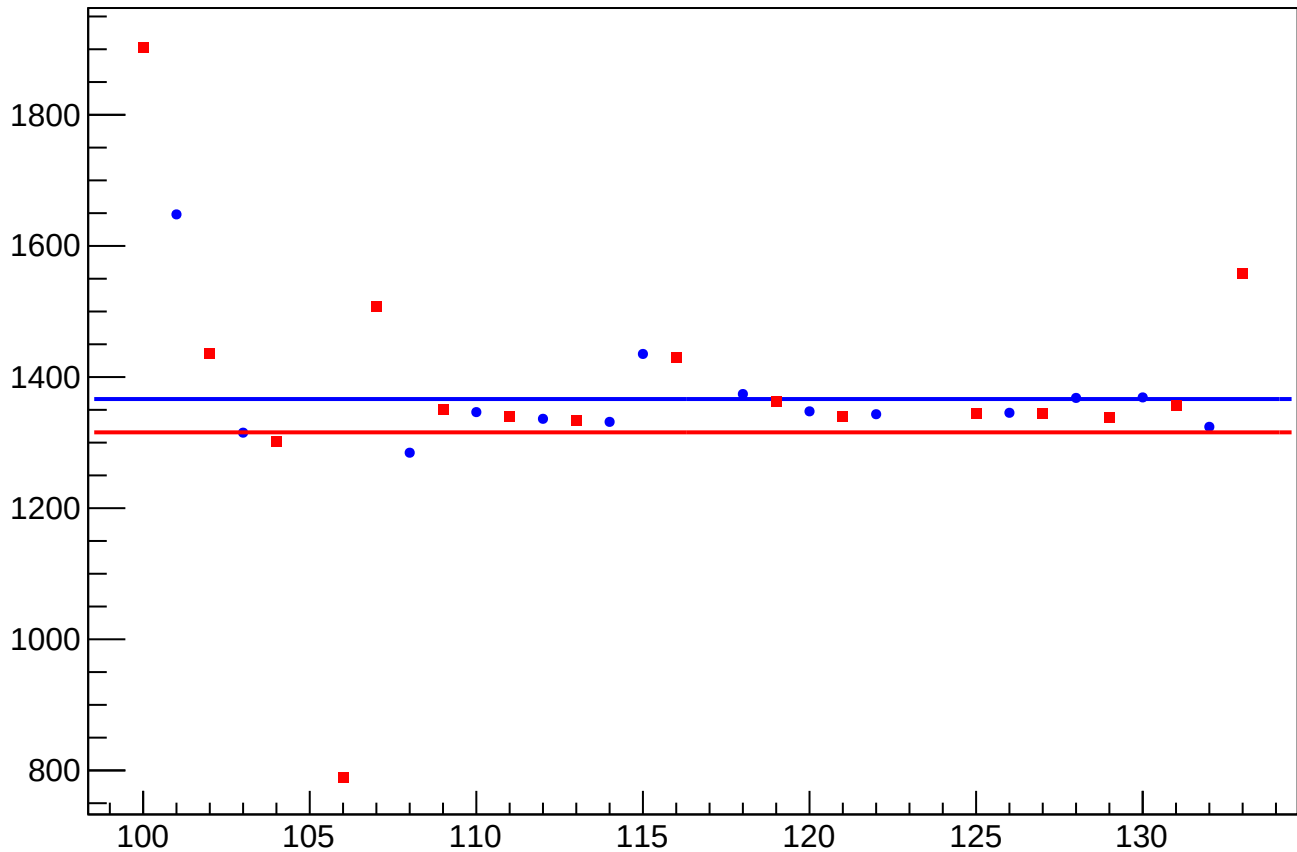
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -94.125+/-388.840  $\chi^2/\text{NDF}$ : 45.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1366.473+/-0.397  $\chi^2/\text{NDF}$ : 46006.7/13

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

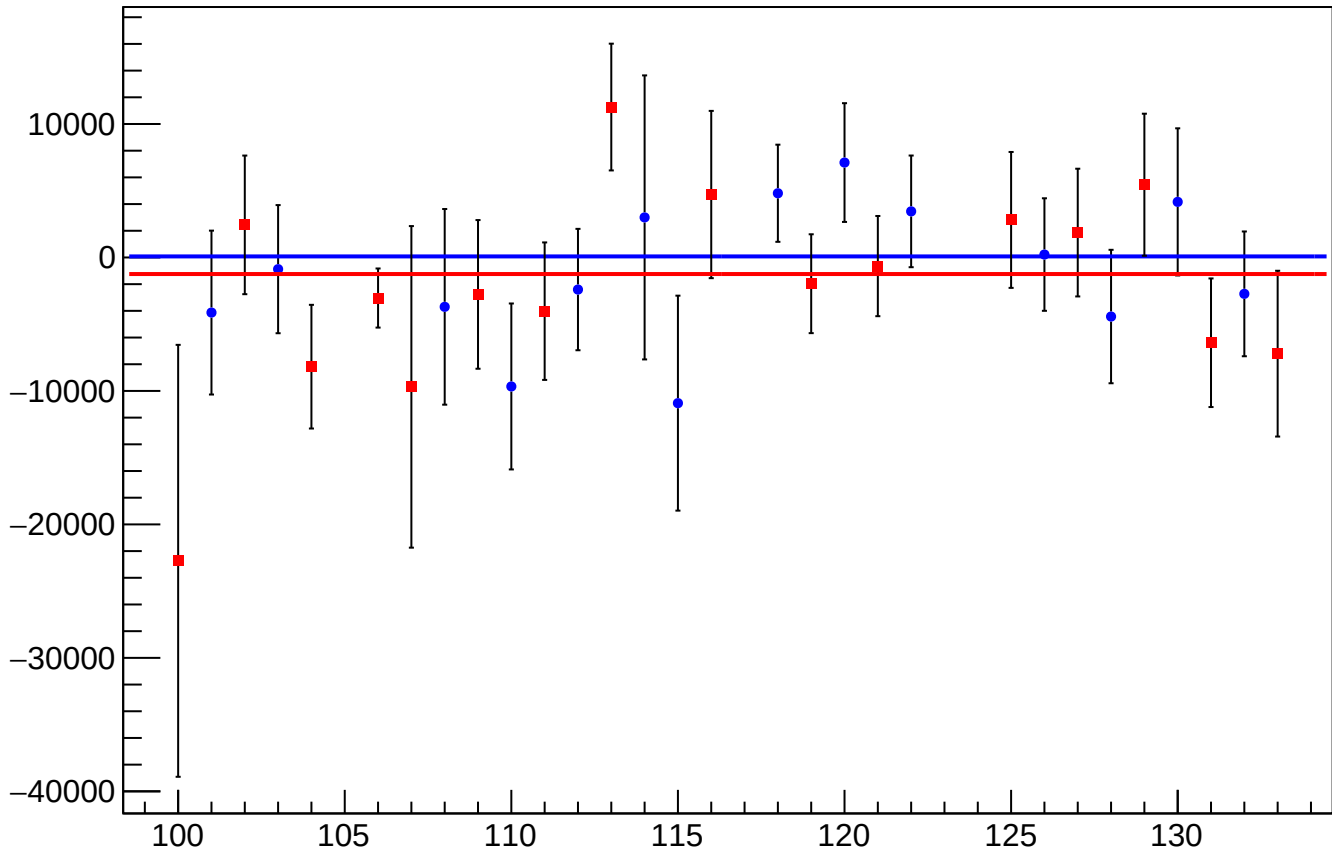
Right Out: 1315.668+/-0.368  $\chi^2/\text{NDF}$ : 263213.6/15

All: 1339.172+/-0.270  $\chi^2/\text{NDF}$ : 318020.2/29

- 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\_usl\_atl2\_avg\_reg\_correction\_mean vs Slug



Right In: 78.598+/-1354.357  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1241.594+/-1140.680  $\chi^2/\text{NDF}$ : 18.6/15

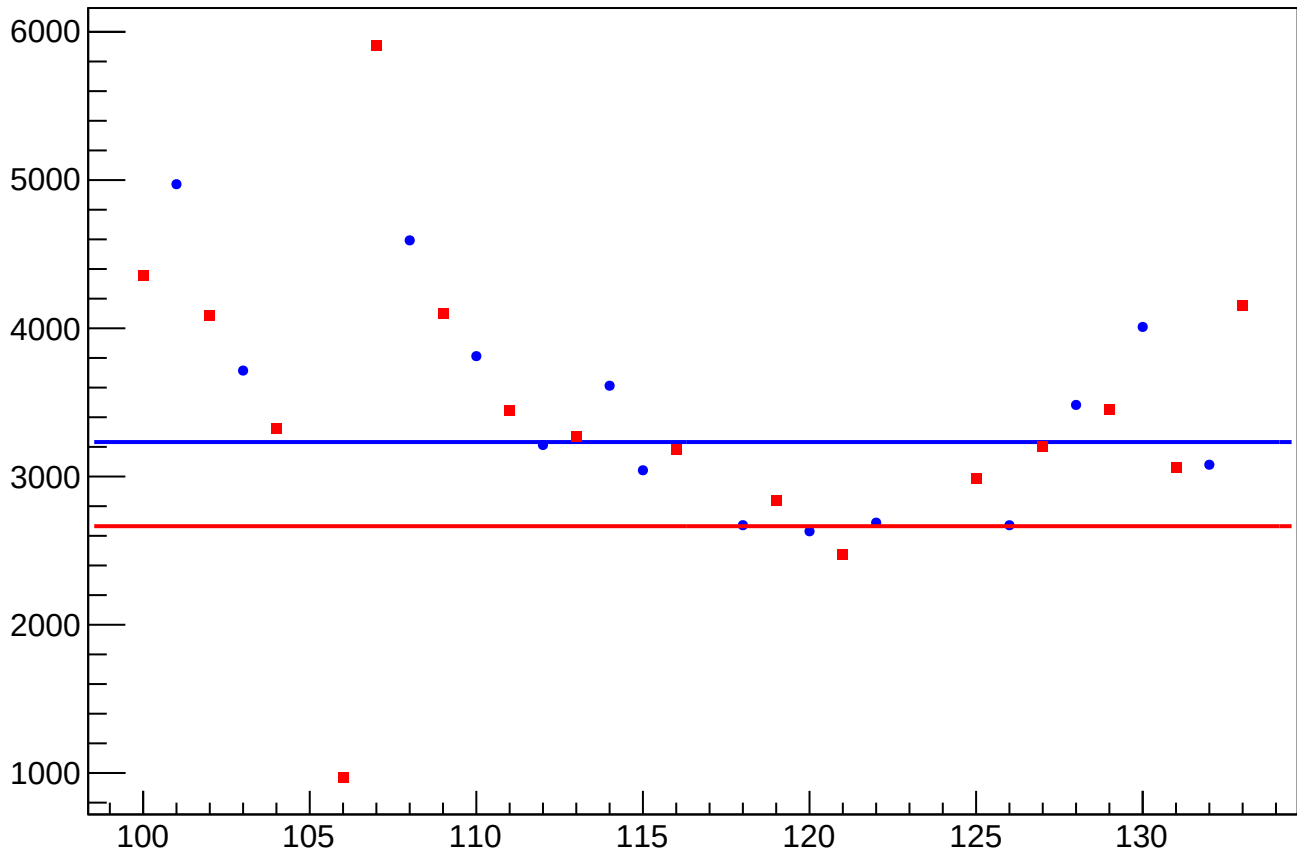
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -693.737+/-872.465  $\chi^2/\text{NDF}$ : 31.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_avg\_reg\_correction\_rms vs Slug



Right In: 3232.649+/-0.958  $\chi^2/\text{NDF}$ : 470997.7/13

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: 2665.007+/-0.807  $\chi^2/\text{NDF}$ : 1968813.7/15

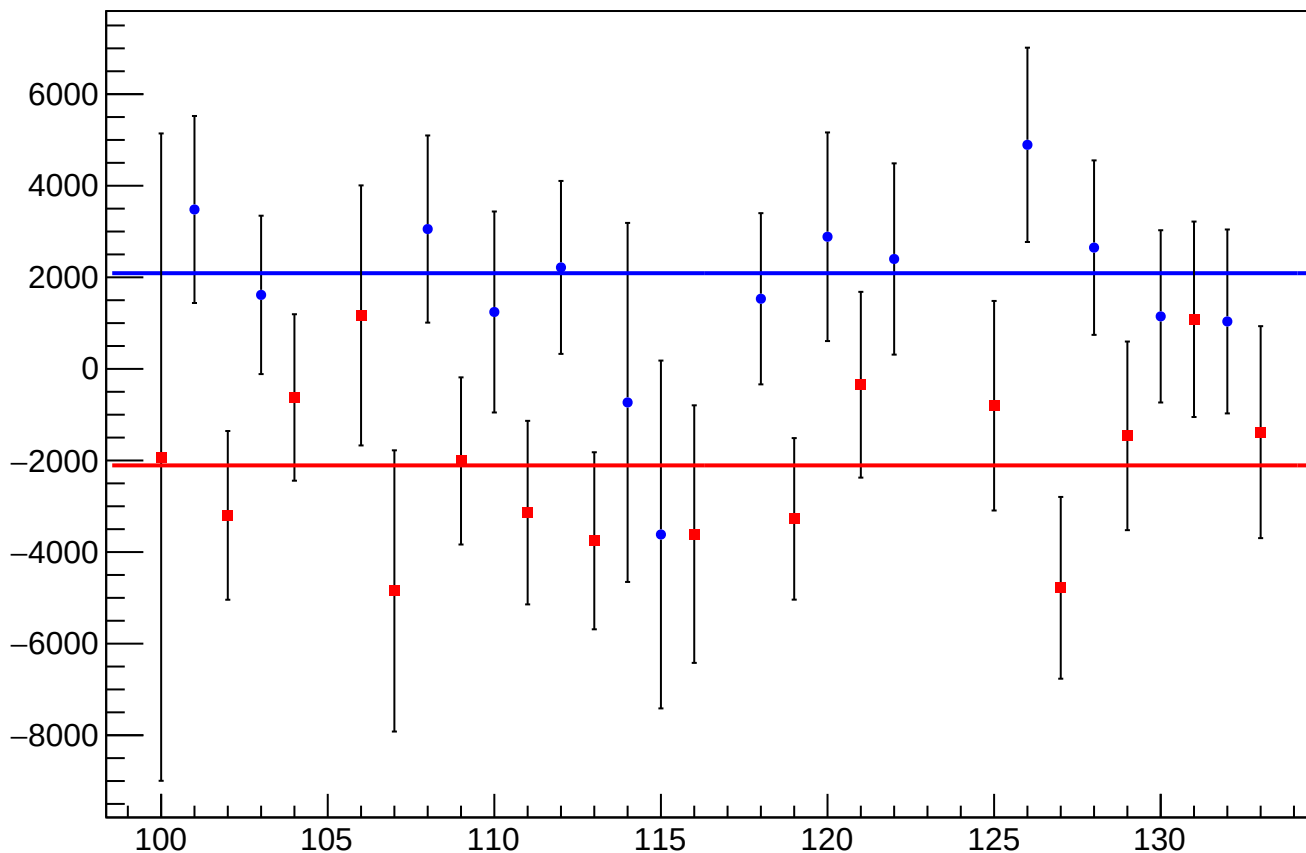
All: 2900.569+/-0.617  $\chi^2/\text{NDF}$ : 2645344.0/29

- 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\_usl\_atl2\_avg\_mean vs Slug



Right In: 2089.904+/-561.455  $\chi^2/\text{NDF}$ : 6.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2107.220+/-539.038  $\chi^2/\text{NDF}$ : 10.2/15

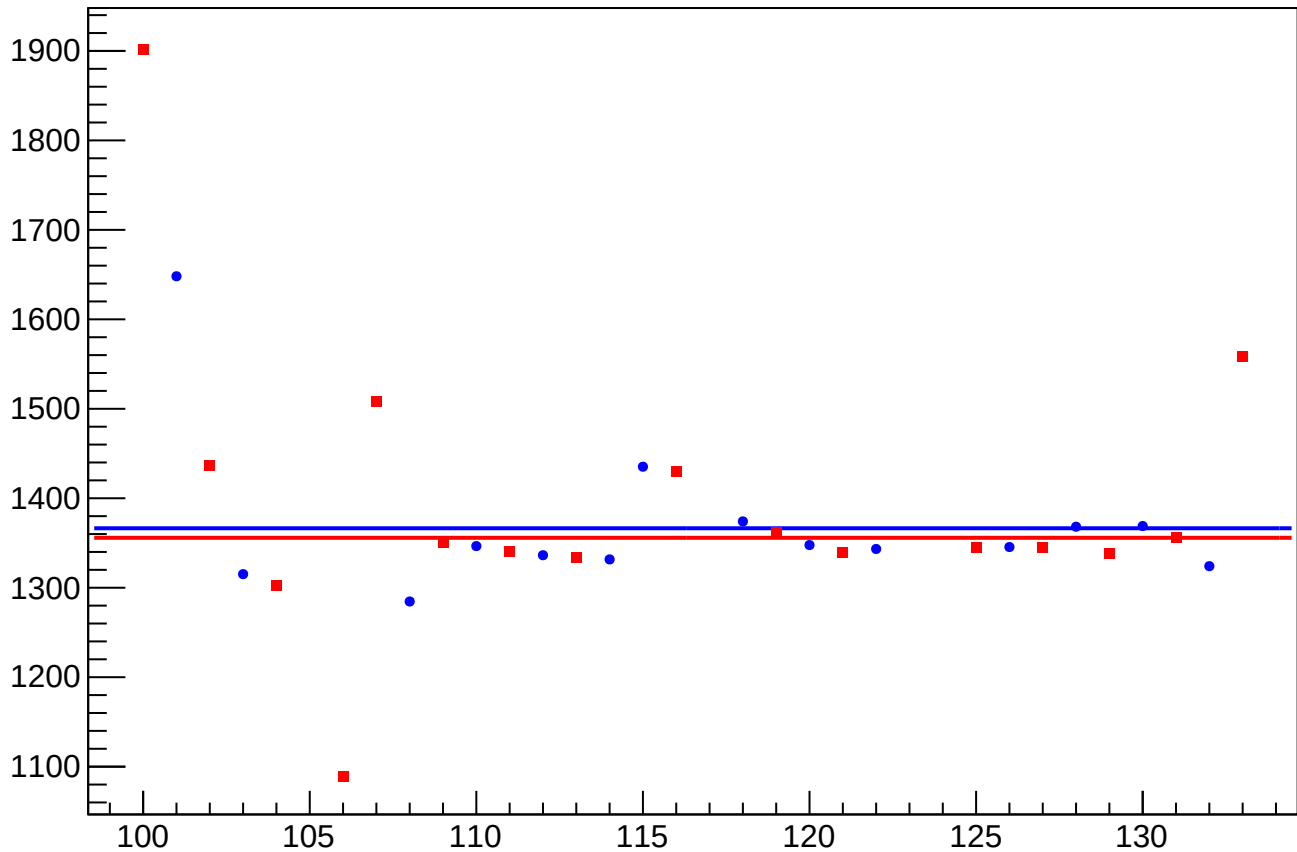
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -94.119+/-388.841  $\chi^2/\text{NDF}$ : 45.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1366.472+/-0.397  $\chi^2/\text{NDF}$ : 46006.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1355.809+/-0.376  $\chi^2/\text{NDF}$ : 71911.7/15

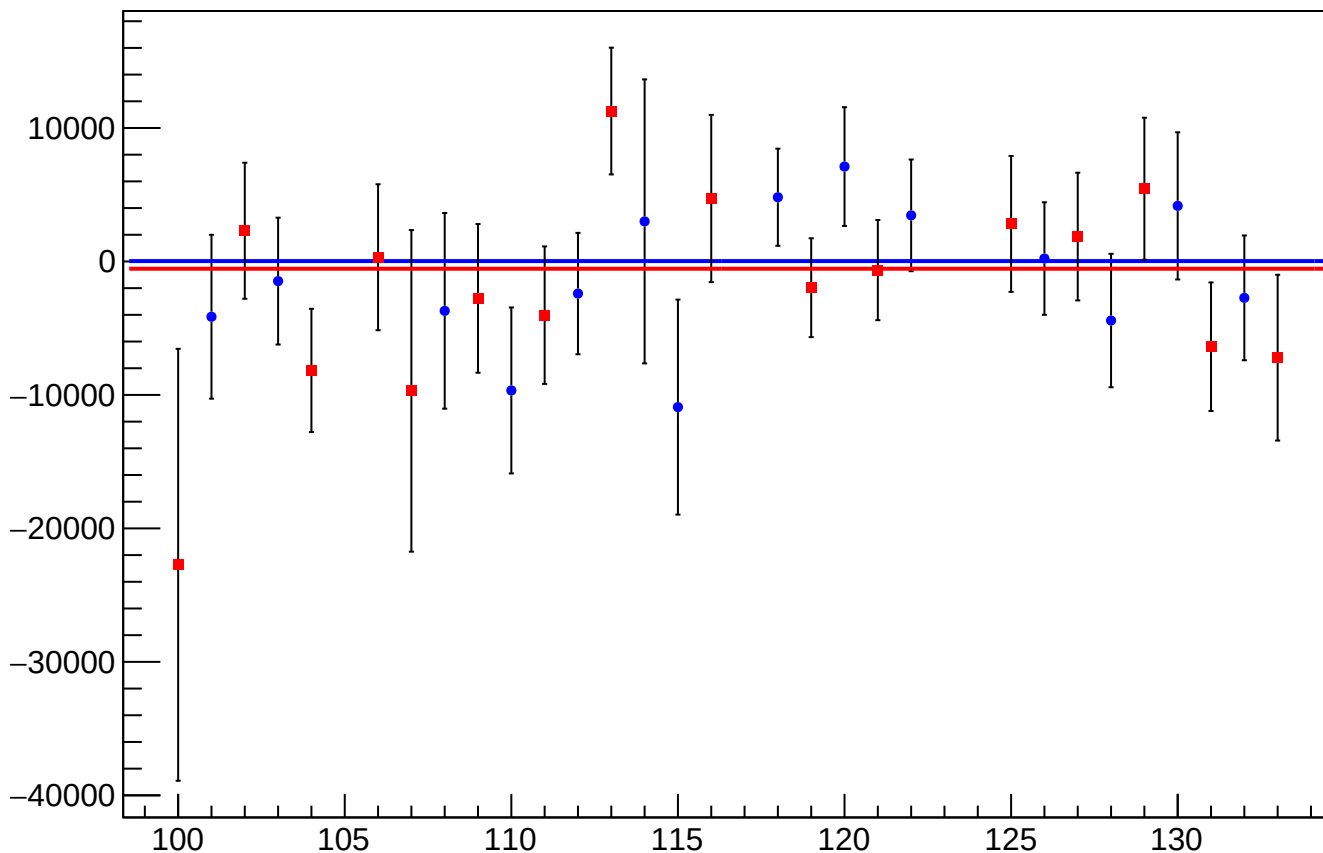
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1360.847+/-0.273  $\chi^2/\text{NDF}$ : 118299.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_cor\_correction\_mean vs Slug



Right In: 28.184+/-1353.232  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -545.498+/-1291.244  $\chi^2/\text{NDF}$ : 17.8/15

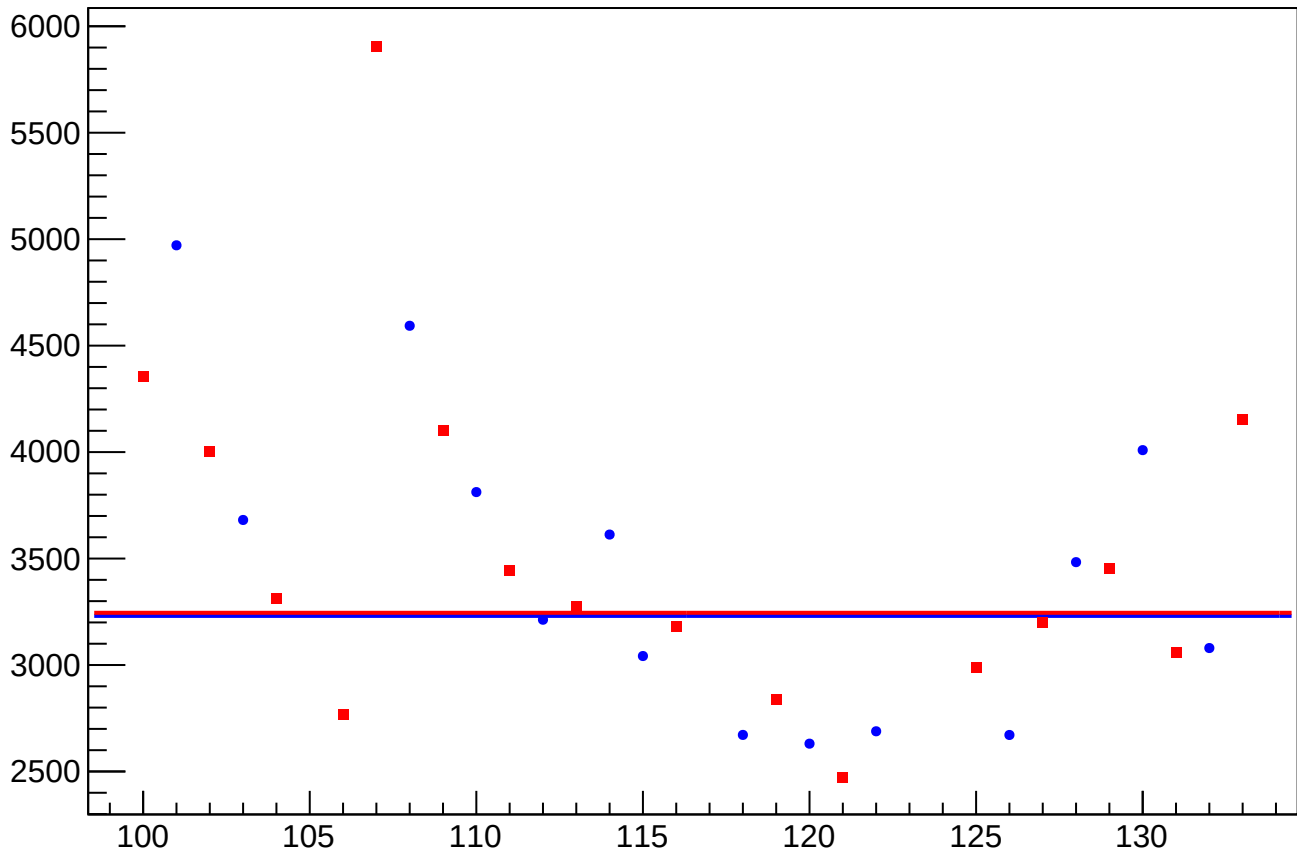
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -272.097+/-934.193  $\chi^2/\text{NDF}$ : 29.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_avg\_cor\_correction\_rms vs Slug



Right In: 3230.704+/-0.957  $\chi^2/\text{NDF}$ : 468518.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3245.288+/-0.913  $\chi^2/\text{NDF}$ : 379747.9/15

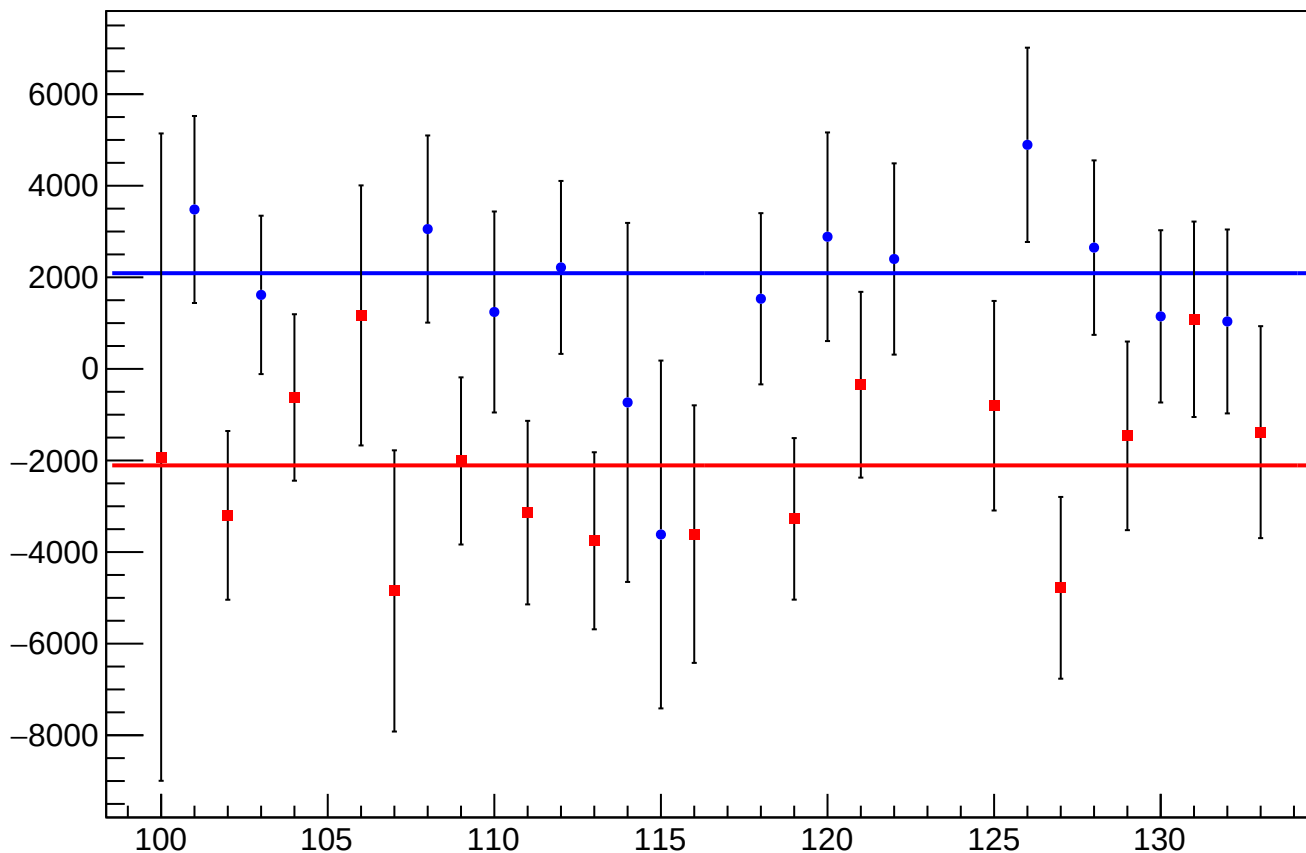
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3238.338+/-0.661  $\chi^2/\text{NDF}$ : 848387.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 2089.904 $\pm$ 561.455  $\chi^2$ /NDF: 6.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2107.220 $\pm$ 539.038  $\chi^2$ /NDF: 10.2/15

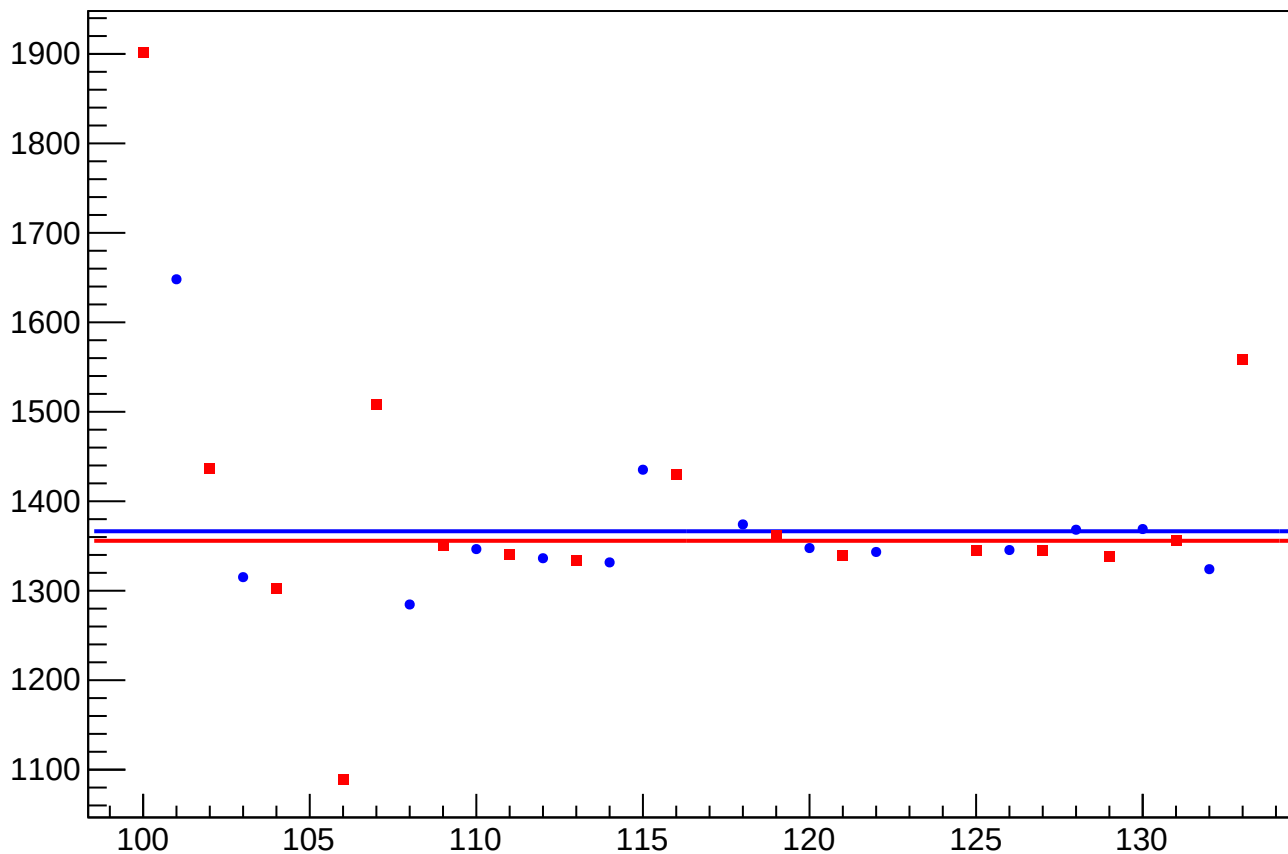
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -94.119 $\pm$ 388.841  $\chi^2$ /NDF: 45.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1366.472 $\pm$ 0.397  $\chi^2$ /NDF: 46006.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1355.809 $\pm$ 0.376  $\chi^2$ /NDF: 71911.7/15

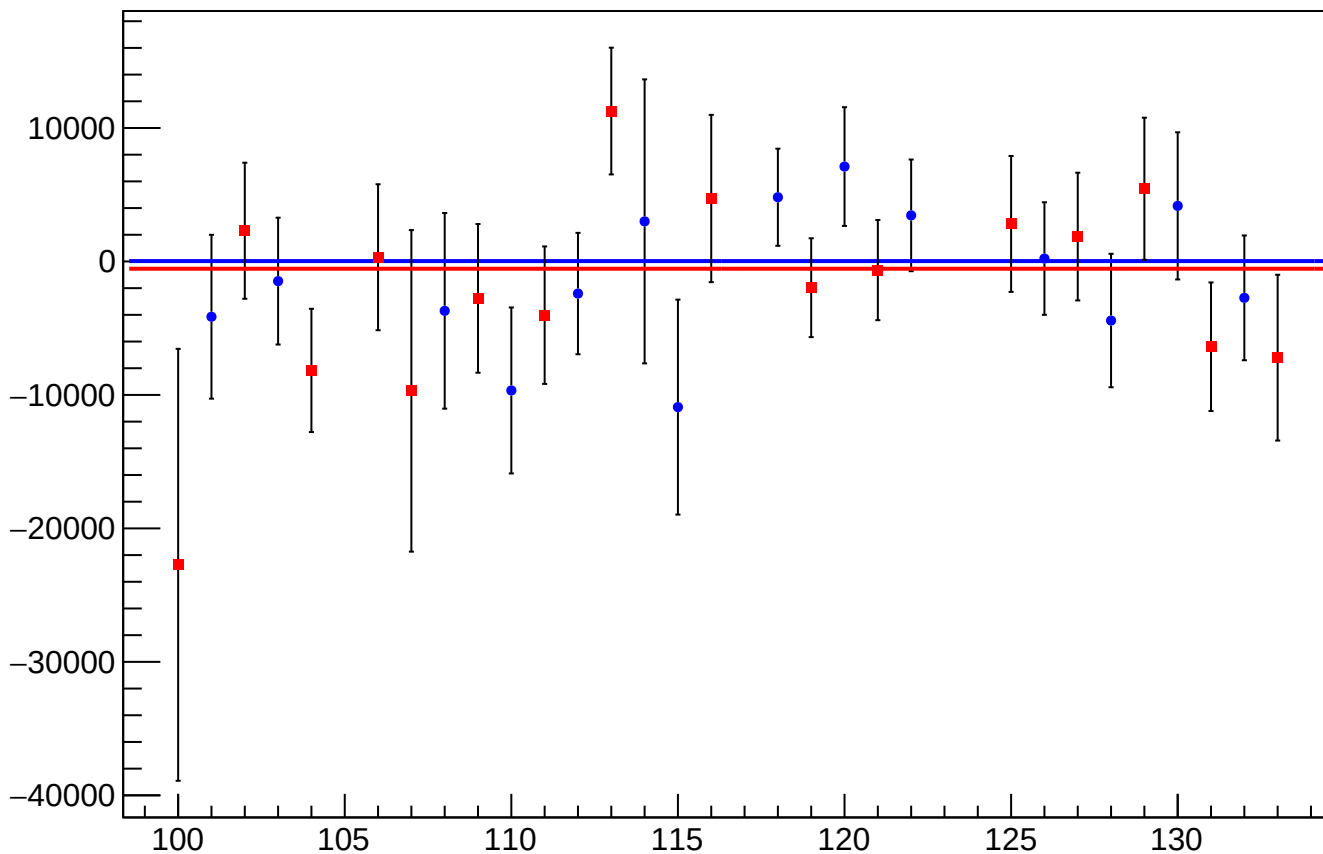
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1360.847 $\pm$ 0.273  $\chi^2$ /NDF: 118299.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 28.184+/-1353.232  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -545.498+/-1291.244  $\chi^2/\text{NDF}$ : 17.8/15

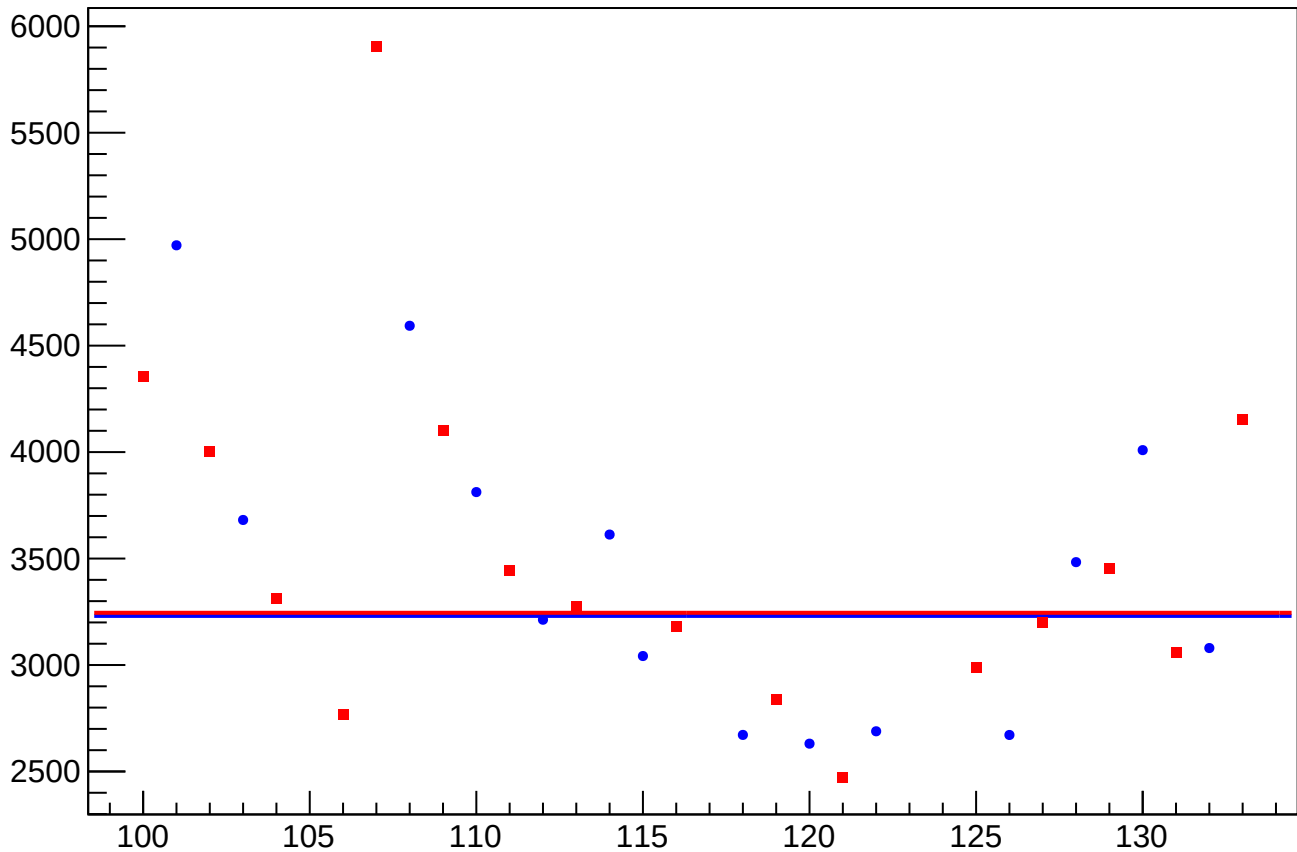
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -272.097+/-934.193  $\chi^2/\text{NDF}$ : 29.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 3230.704+/-0.957  $\chi^2/\text{NDF}$ : 468518.0/13

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: 3245.288+/-0.913  $\chi^2/\text{NDF}$ : 379747.9/15

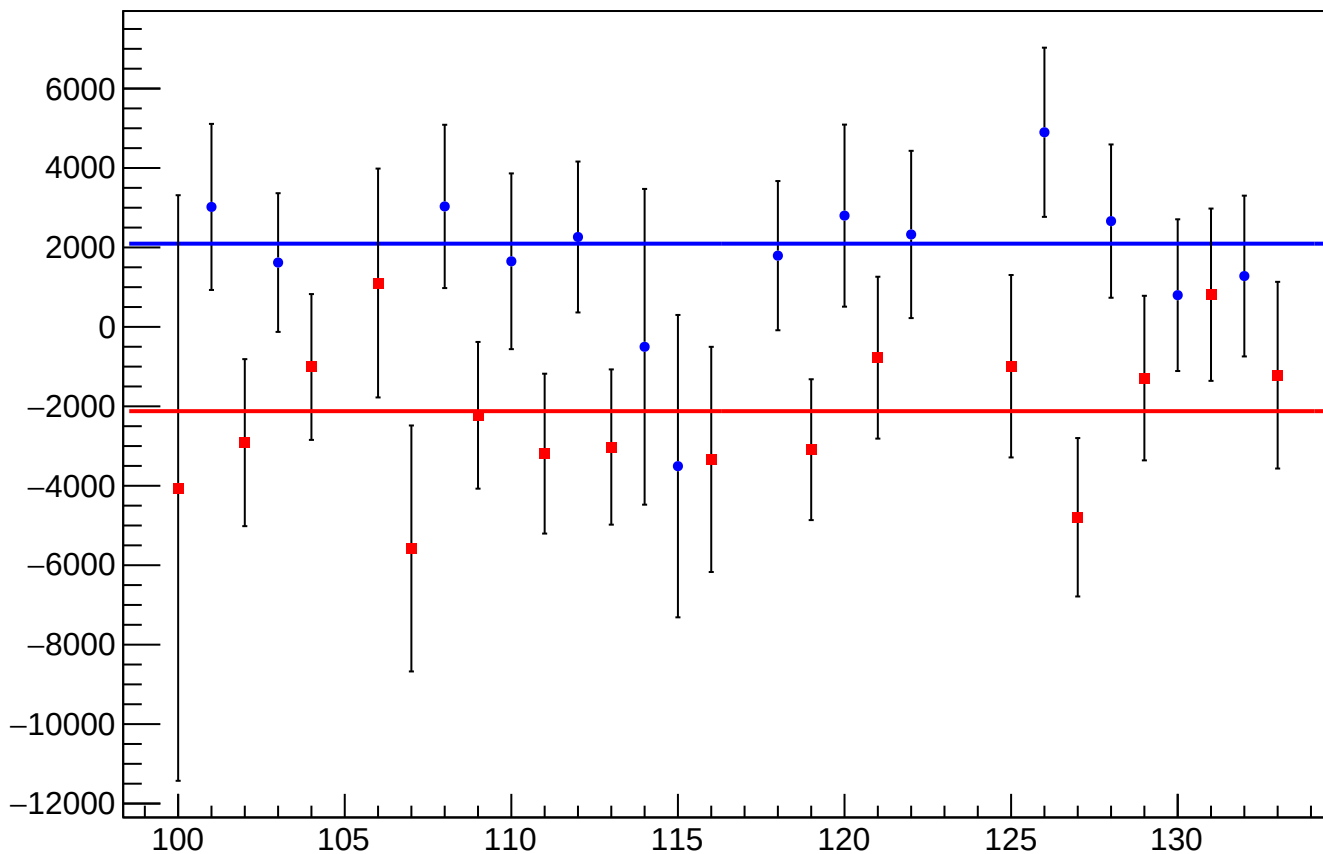
All: 3238.338+/-0.661  $\chi^2/\text{NDF}$ : 848387.5/29

- 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\_usl\_atl2\_avg\_mean vs Slug



Right In: 2095.149 $\pm$ 566.674  $\chi^2$ /NDF: 5.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2121.344 $\pm$ 548.869  $\chi^2$ /NDF: 8.7/15

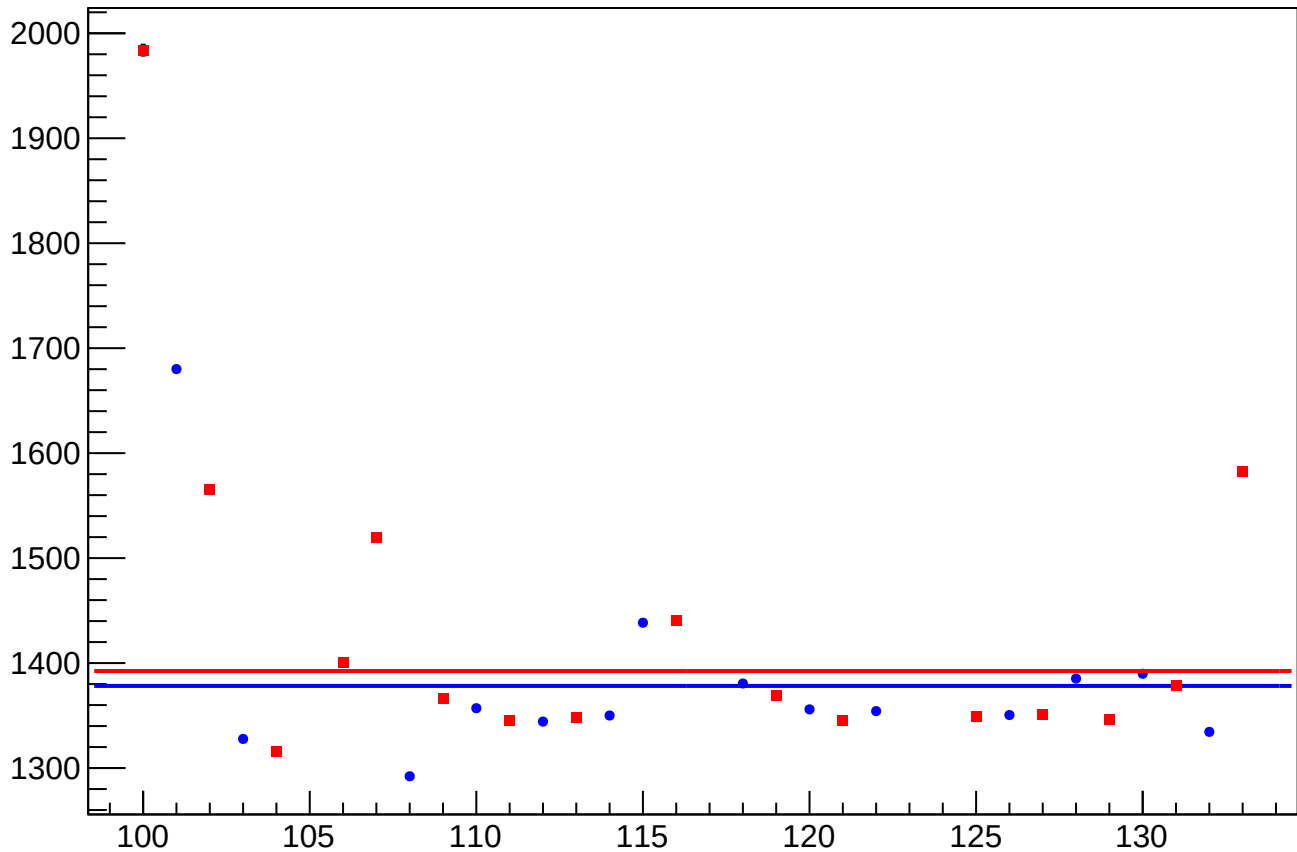
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -80.378 $\pm$ 394.253  $\chi^2$ /NDF: 42.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1378.242 $\pm$ 0.401  $\chi^2$ /NDF: 50130.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1392.430 $\pm$ 0.387  $\chi^2$ /NDF: 53481.4/15

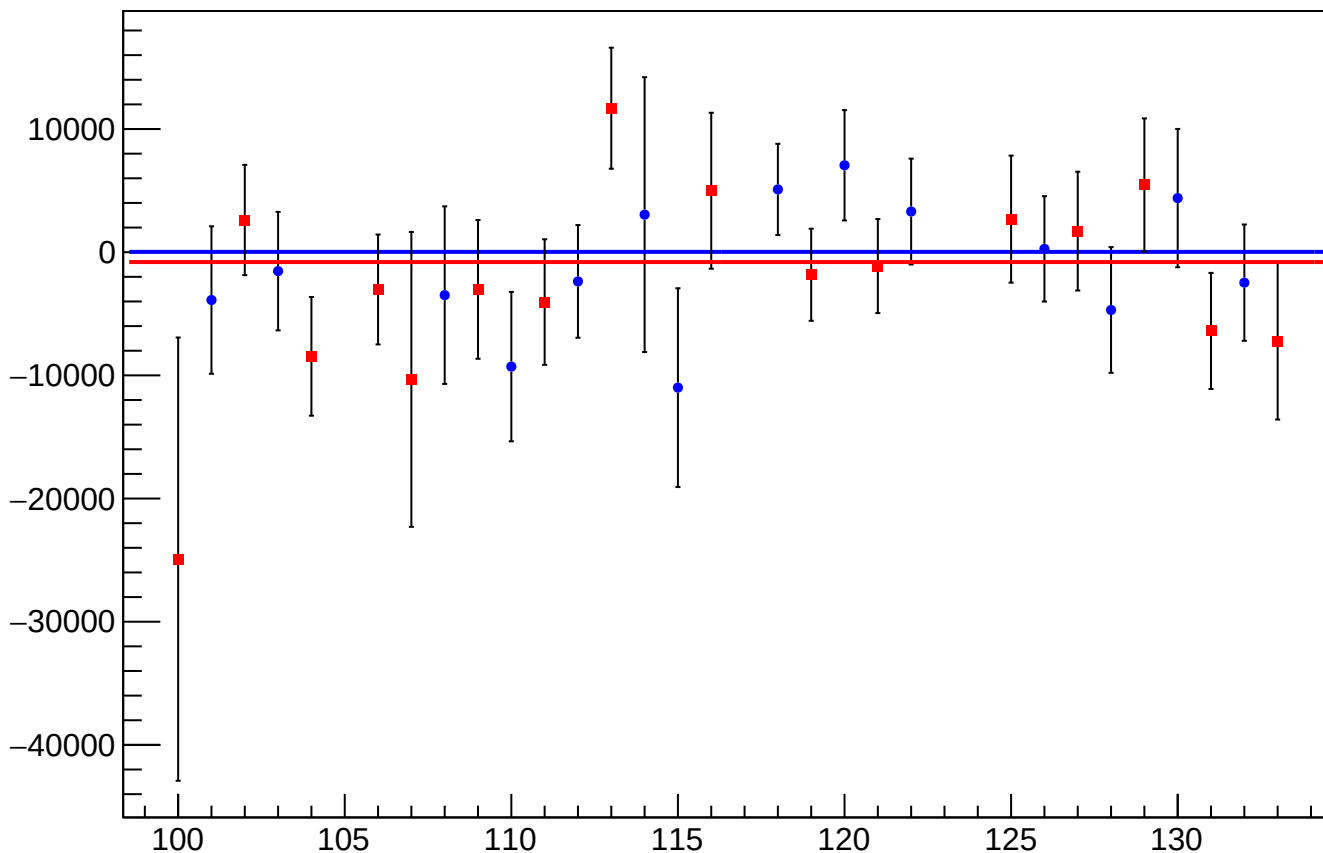
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1385.583 $\pm$ 0.278  $\chi^2$ /NDF: 104260.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_avg\_dit\_correction\_mean vs Slug



Right In: 26.126+/-1366.678  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -799.172+/-1275.738  $\chi^2/\text{NDF}$ : 18.2/15

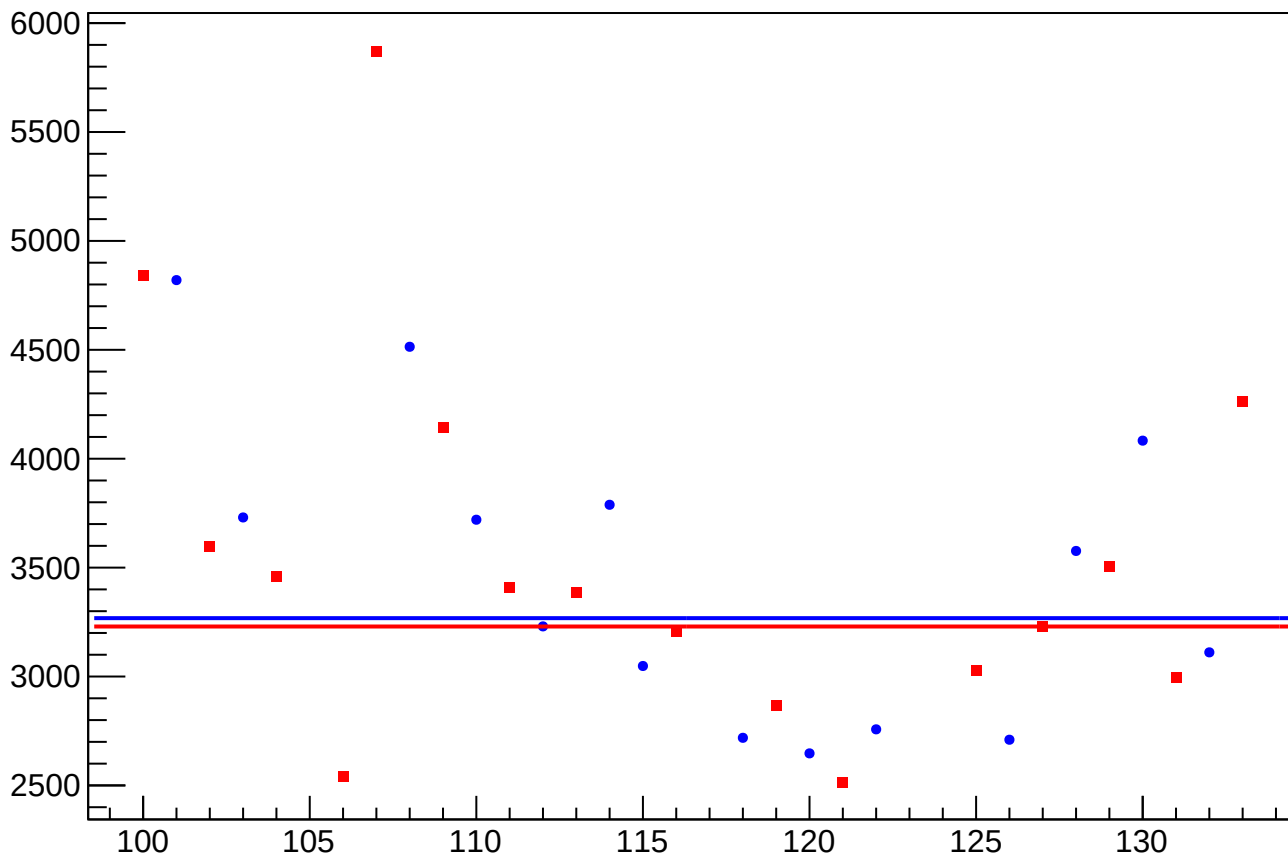
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -414.892+/-932.577  $\chi^2/\text{NDF}$ : 30.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_avg\_dit\_correction\_rms vs Slug



Right In: 3268.017 $\pm$ 0.966  $\chi^2$ /NDF: 426209.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3229.637 $\pm$ 0.902  $\chi^2$ /NDF: 391800.3/15

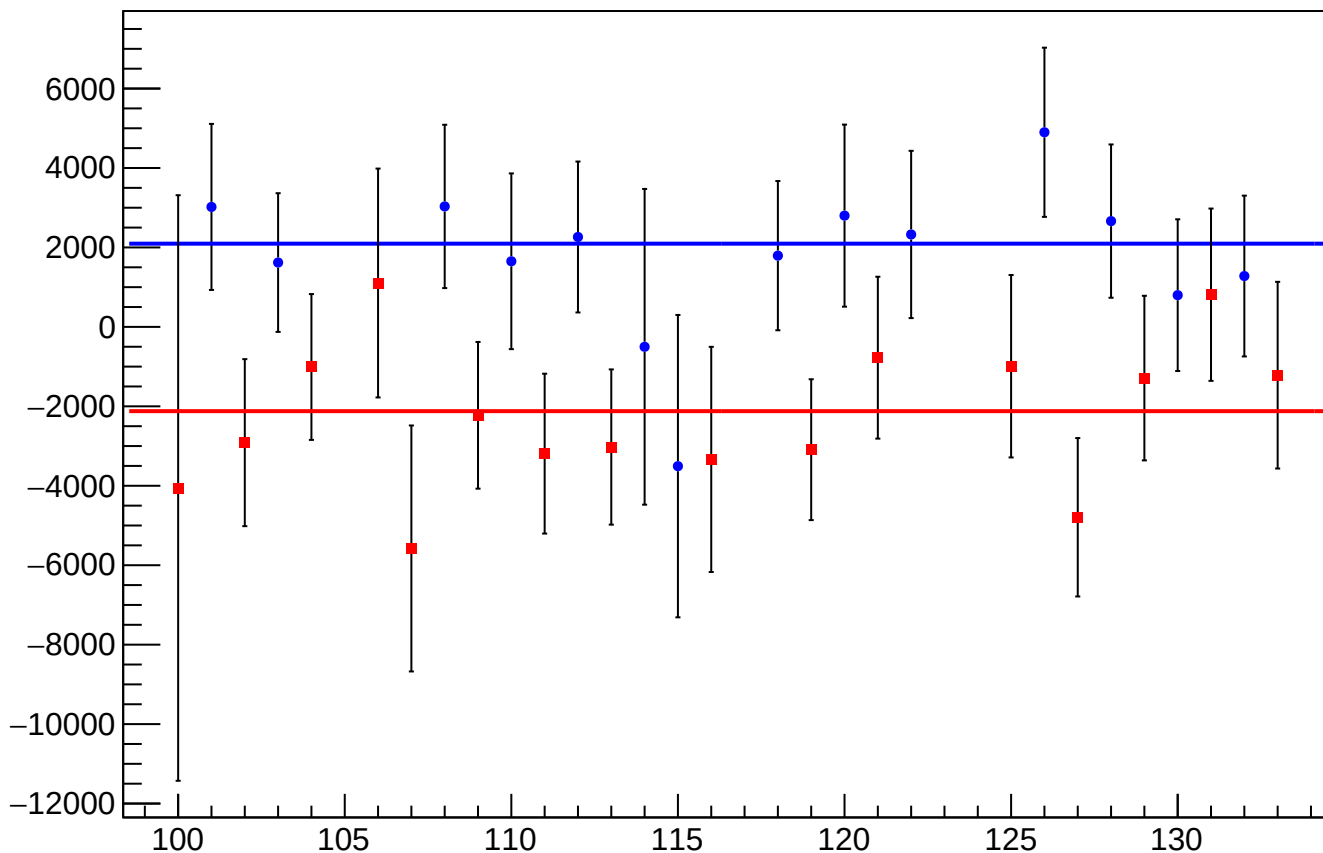
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3247.507 $\pm$ 0.659  $\chi^2$ /NDF: 818852.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 2095.155 $\pm$ 566.674  $\chi^2$ /NDF: 5.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2121.346 $\pm$ 548.869  $\chi^2$ /NDF: 8.7/15

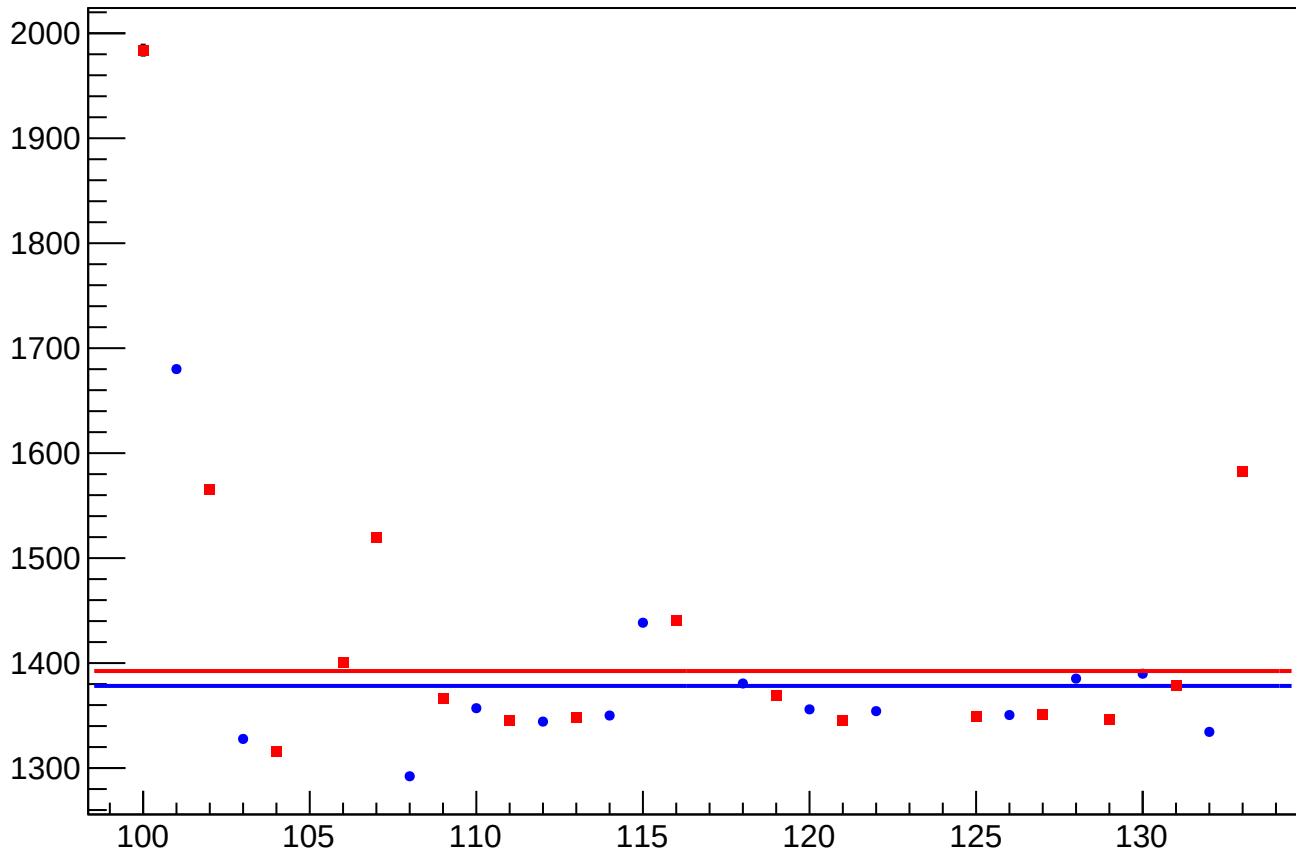
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -80.376 $\pm$ 394.253  $\chi^2$ /NDF: 42.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_usl\_atl2\_avg\_rms vs Slug



Right In: 1378.242 $\pm$ 0.401  $\chi^2$ /NDF: 50130.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1392.430 $\pm$ 0.387  $\chi^2$ /NDF: 53481.4/15

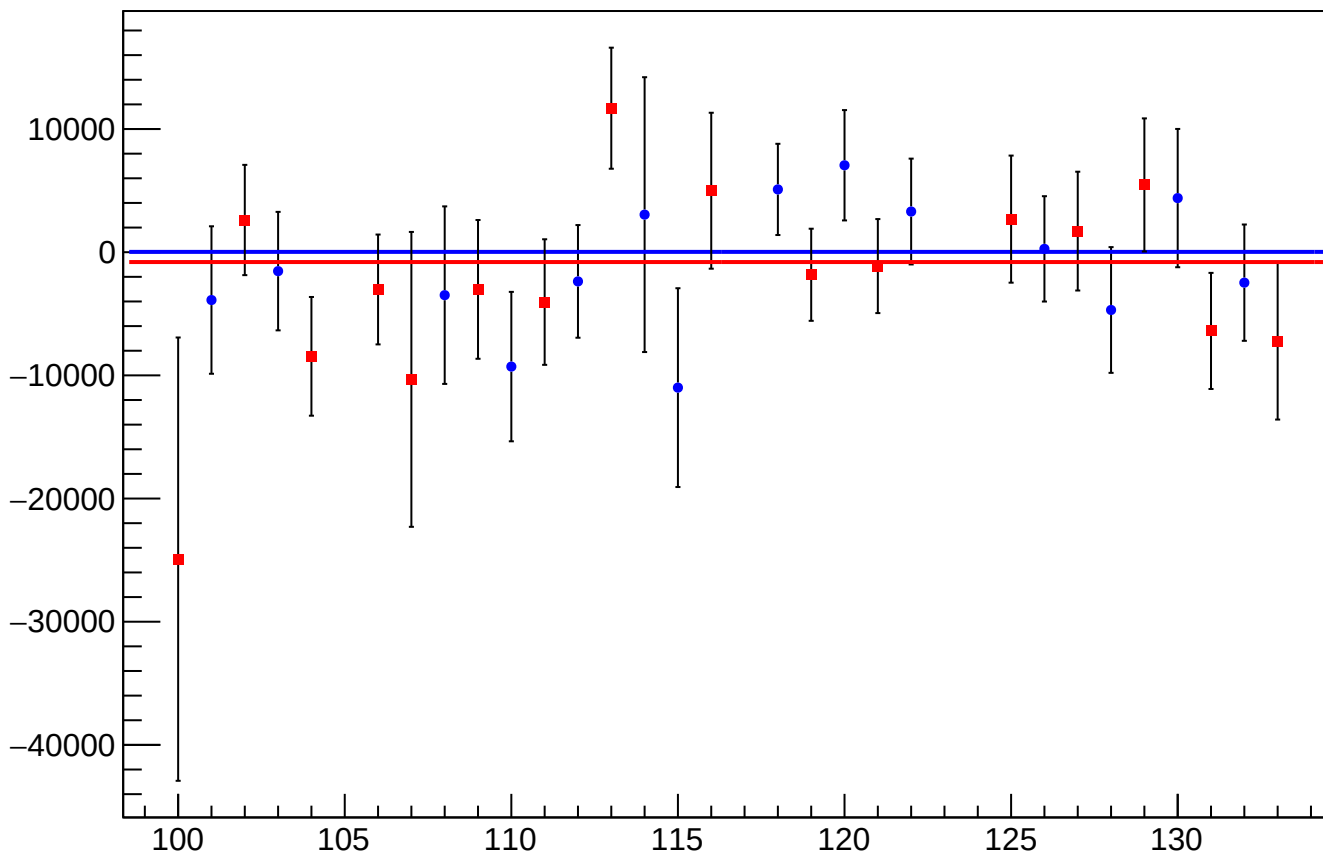
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1385.583 $\pm$ 0.278  $\chi^2$ /NDF: 104260.3/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 26.130+/-1366.674  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -799.175+/-1275.734  $\chi^2/\text{NDF}$ : 18.2/15

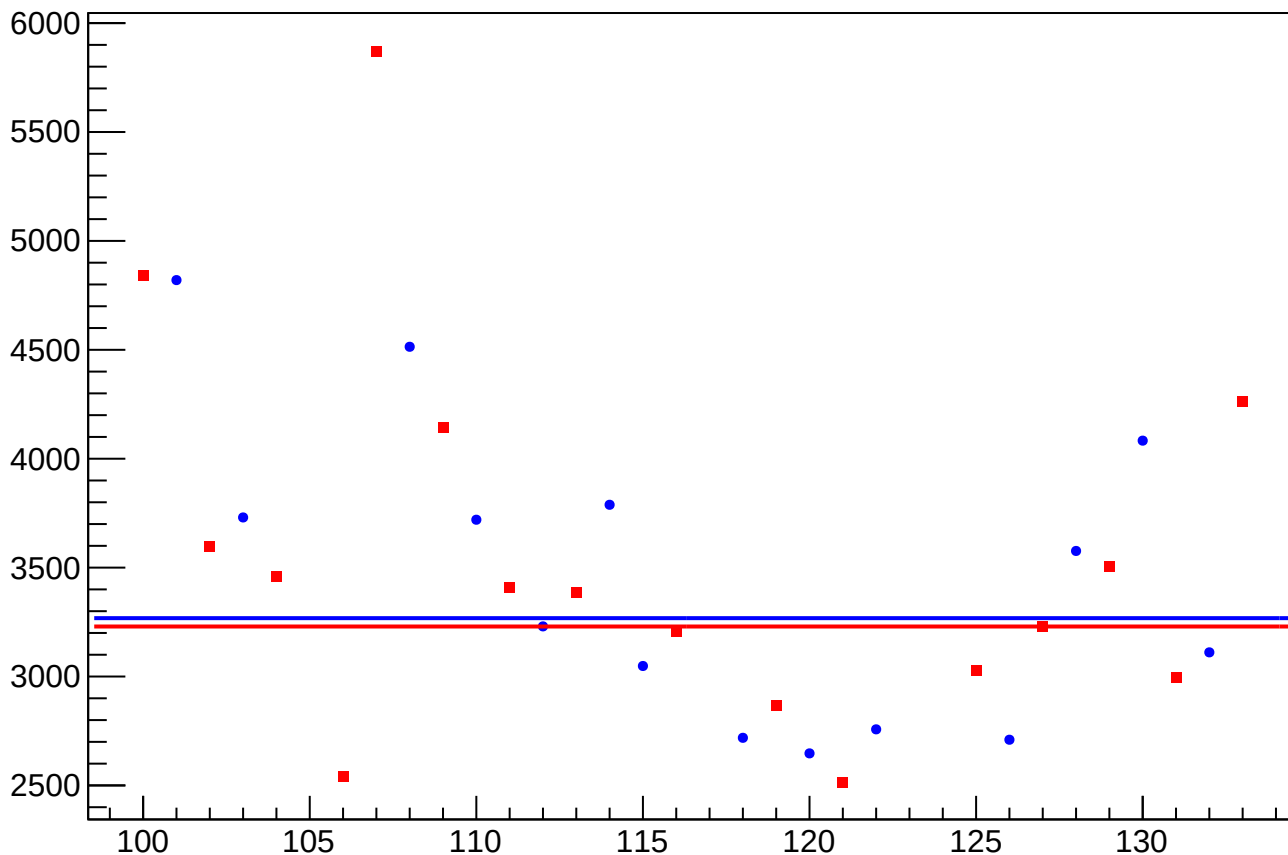
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -414.892+/-932.574  $\chi^2/\text{NDF}$ : 30.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 3268.005+/-0.966  $\chi^2/\text{NDF}$ : 426213.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3229.627+/-0.902  $\chi^2/\text{NDF}$ : 391801.1/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

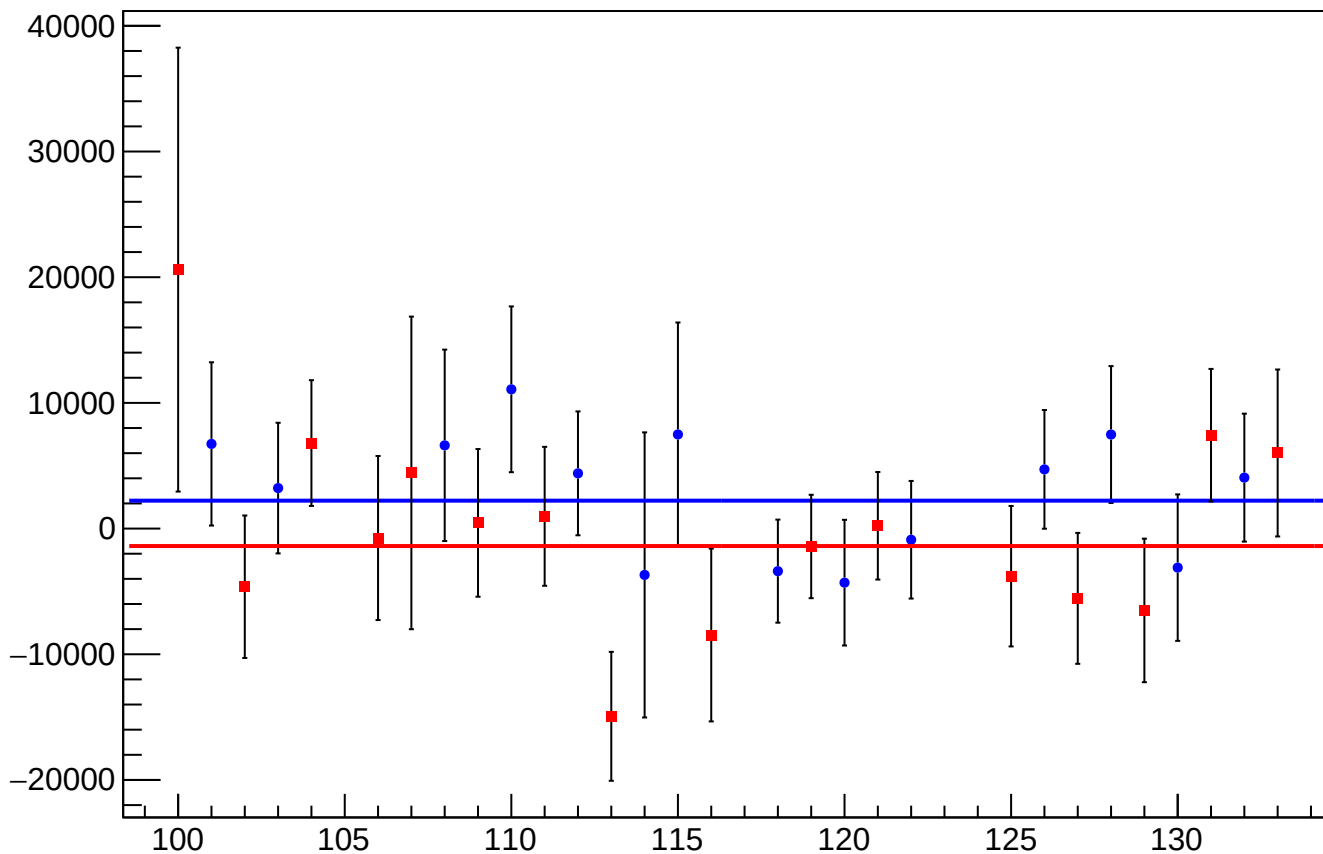
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3247.497+/-0.659  $\chi^2/\text{NDF}$ : 818857.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_usl\_atl2\_avg\_mean vs Slug



Right In: 2221.322+/-1483.517  $\chi^2/\text{NDF}$ : 9.7/13

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

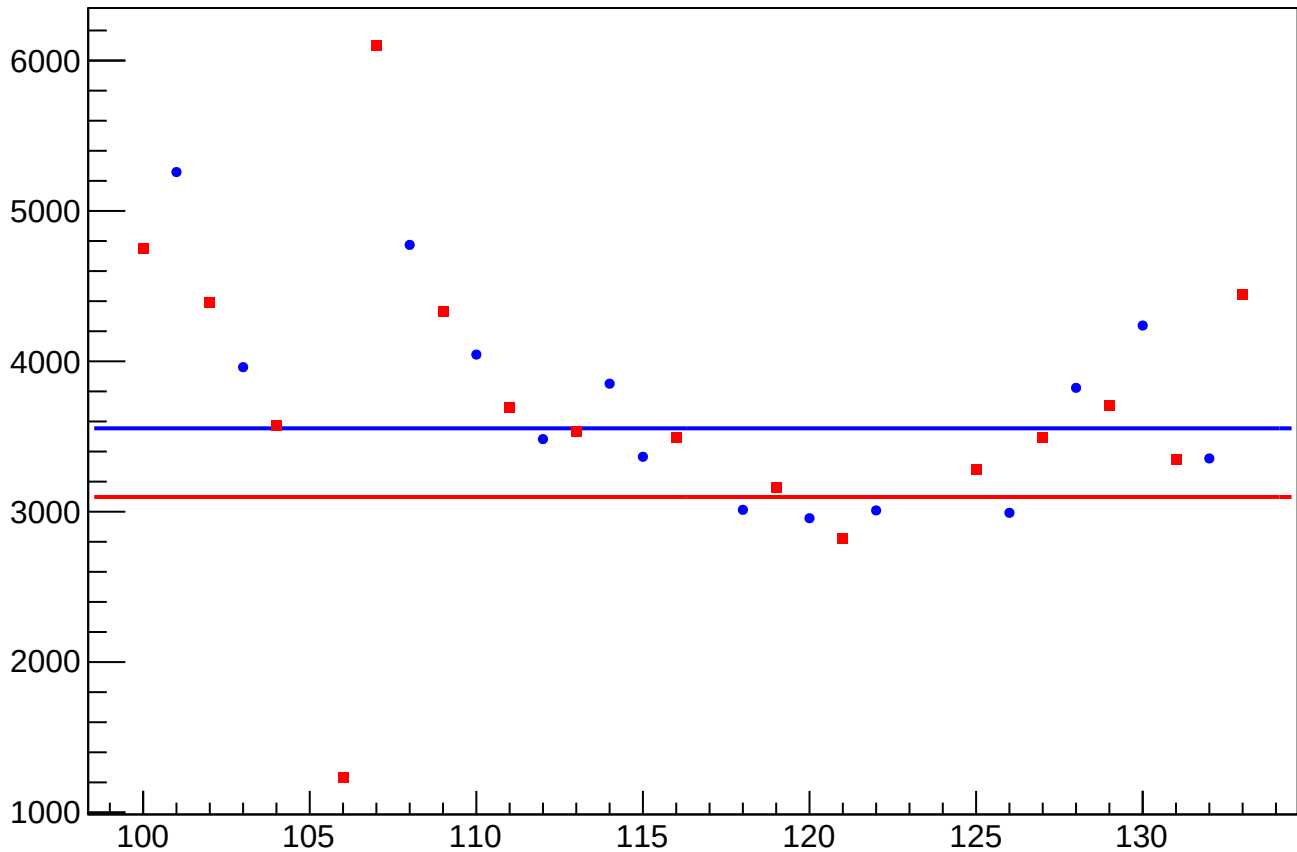
Right Out: -1389.931+/-1418.443  $\chi^2/\text{NDF}$ : 18.9/15

All: 334.756+/-1025.224  $\chi^2/\text{NDF}$ : 31.7/29

- 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\_usl\_atl2\_avg\_rms vs Slug



Right In: 3554.382 $\pm$ 1.049  $\chi^2$ /NDF: 369567.2/13

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

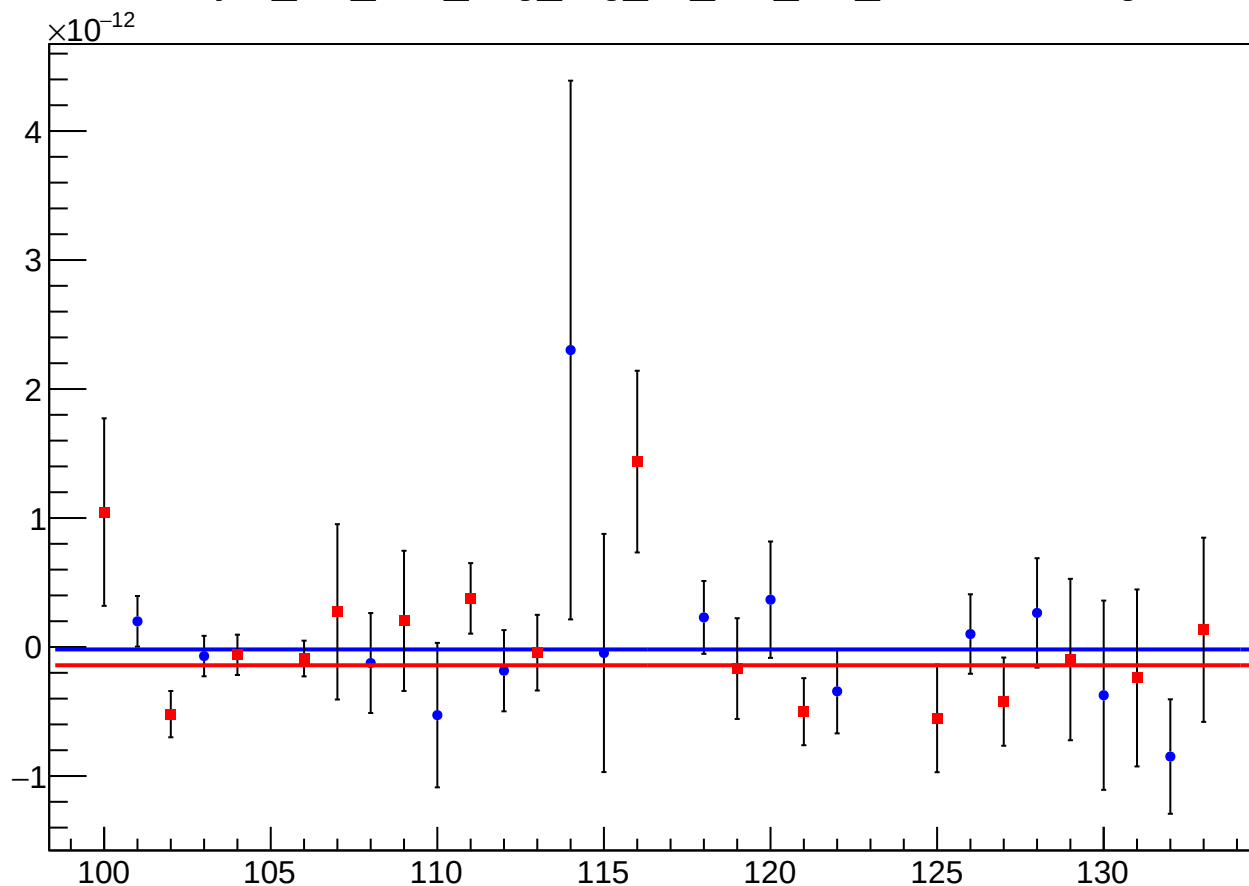
Right Out: 3098.028 $\pm$ 0.915  $\chi^2$ /NDF: 1382479.7/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3295.163 $\pm$ 0.689  $\chi^2$ /NDF: 1859548.3/29

- 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  $\chi^2/\text{NDF}$ : 10.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.8/15

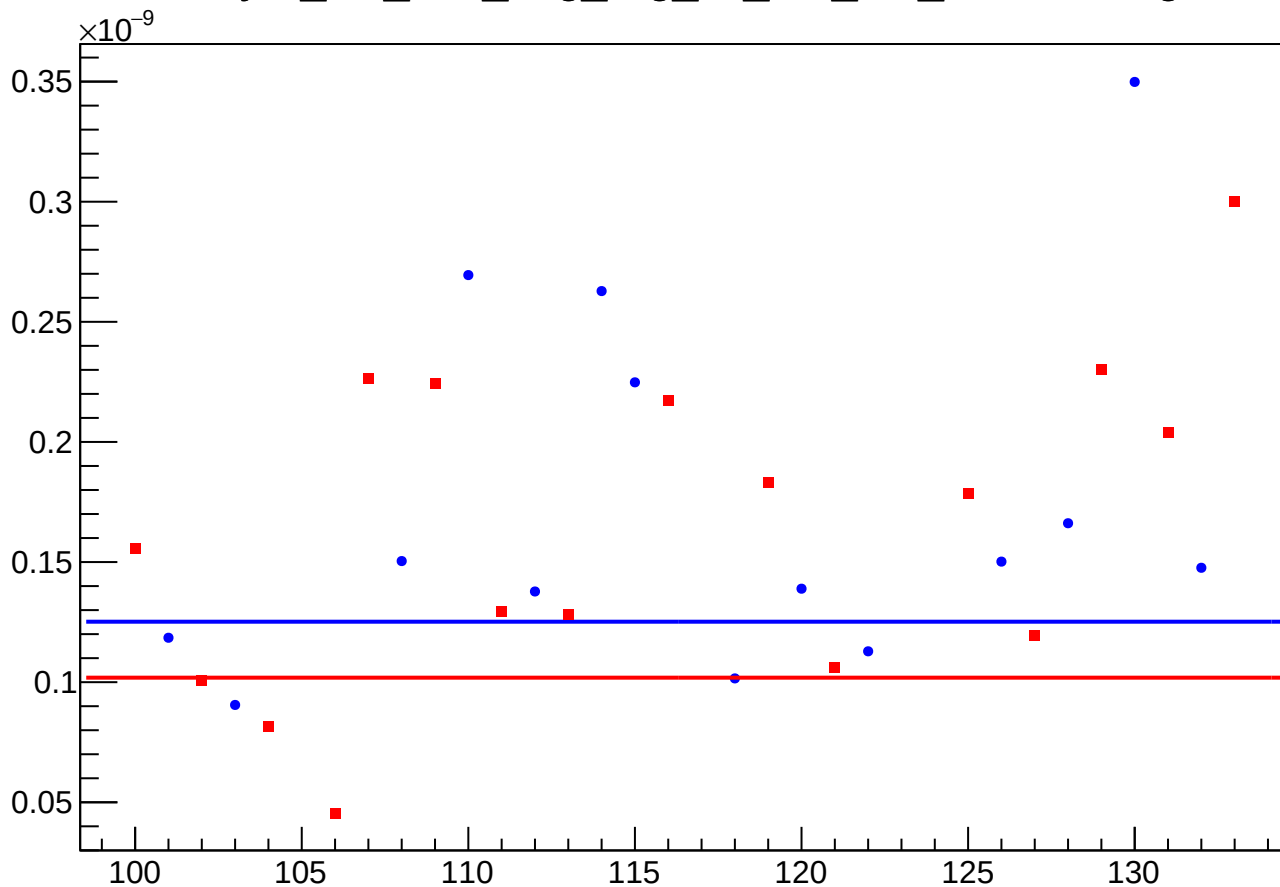
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 32.6/29

- 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  $\chi^2/\text{NDF}$ : 519675.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1079103.5/15

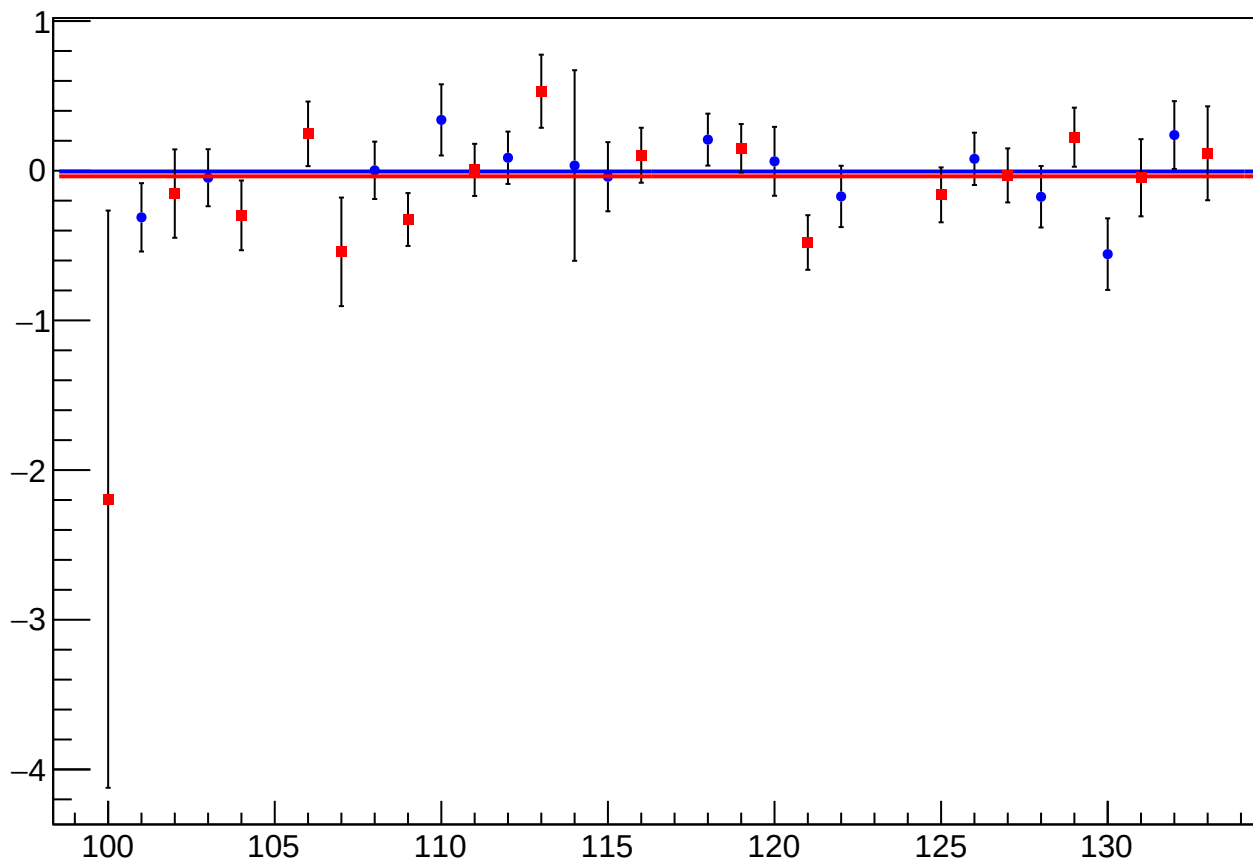
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1687512.3/29

- 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:  $-0.005 \pm 0.056$   $\chi^2/\text{NDF}$ : 13.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.038 \pm 0.053$   $\chi^2/\text{NDF}$ : 24.7/15

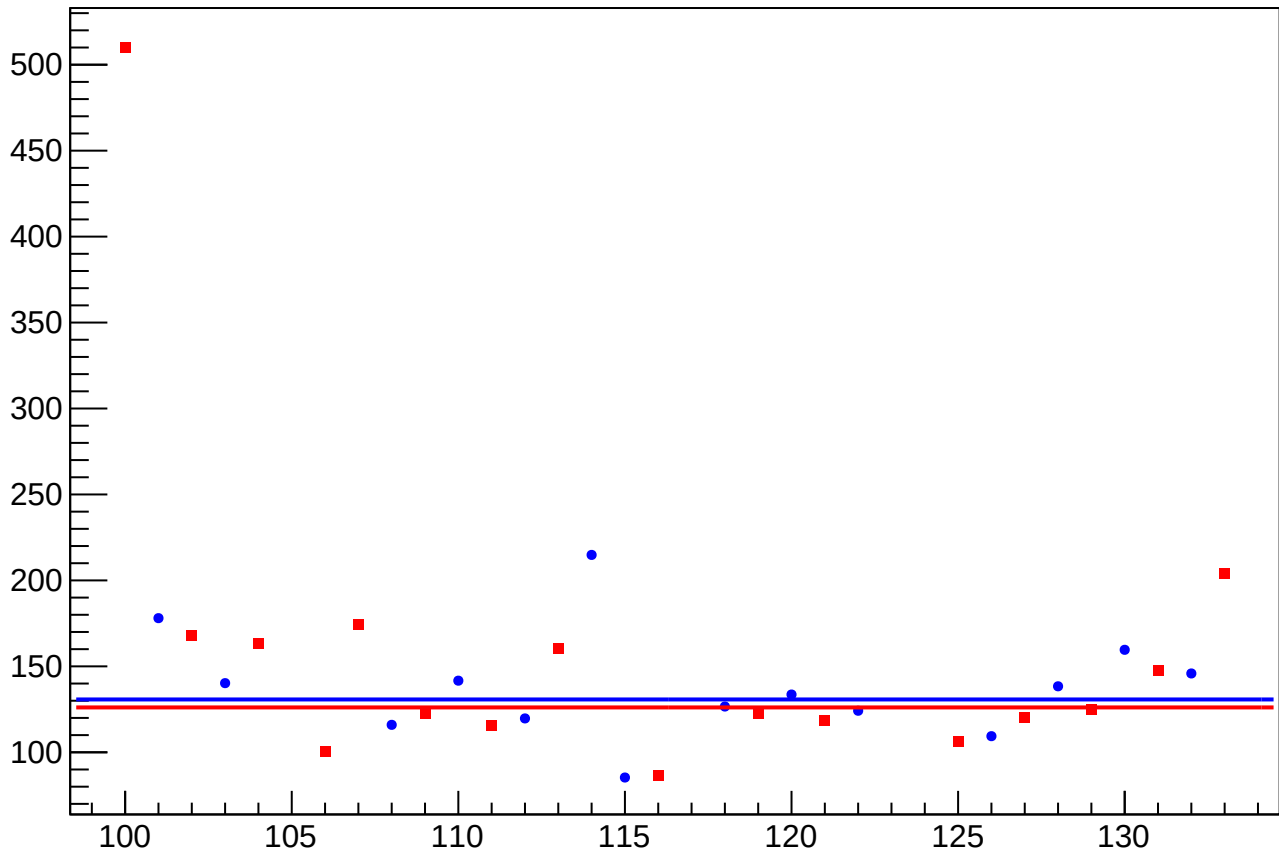
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.022 \pm 0.039$   $\chi^2/\text{NDF}$ : 38.8/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 130.743+/-0.040  $\chi^2/\text{NDF}$ : 301264.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 126.105+/-0.038  $\chi^2/\text{NDF}$ : 539570.2/15

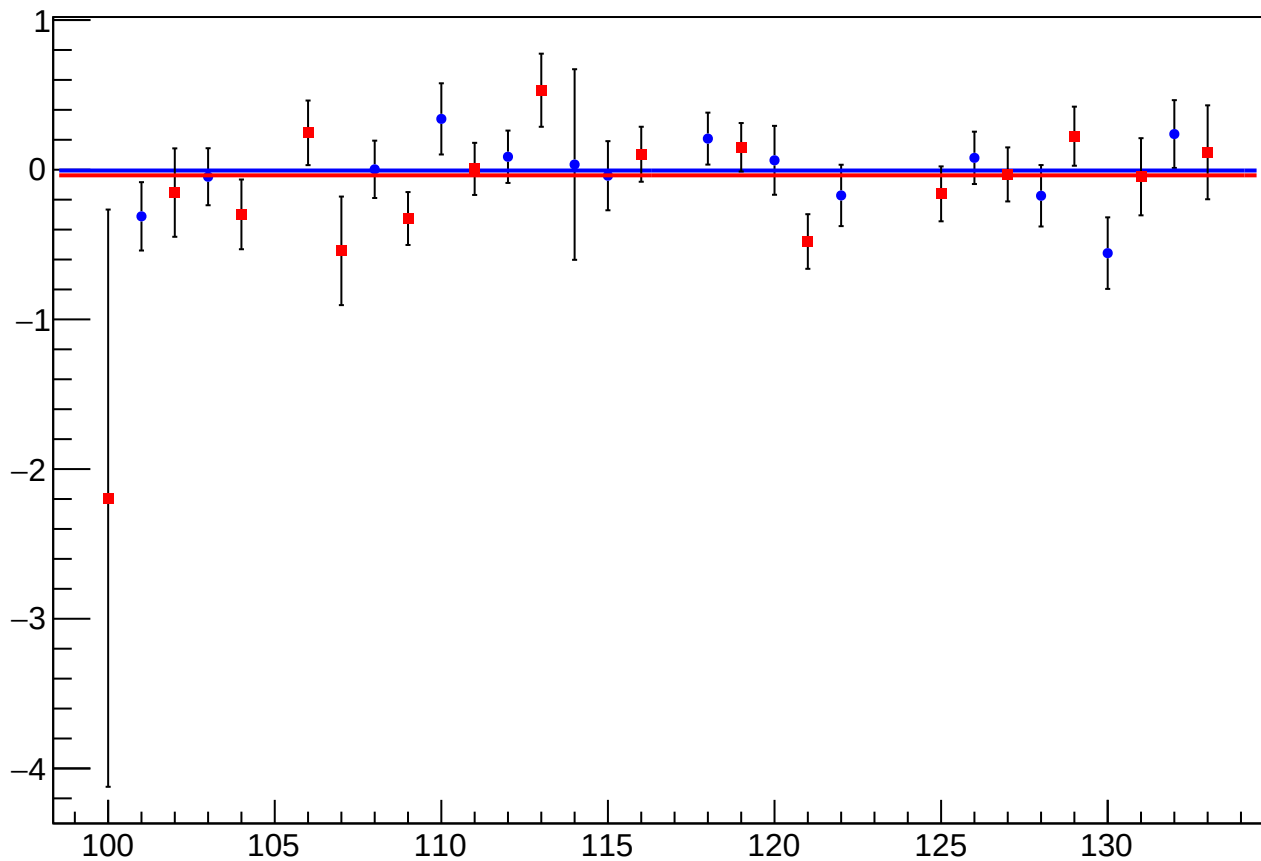
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 128.301+/-0.027  $\chi^2/\text{NDF}$ : 847965.7/29

- 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: -0.005+/-0.056  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.038+/-0.053  $\chi^2/\text{NDF}$ : 24.7/15

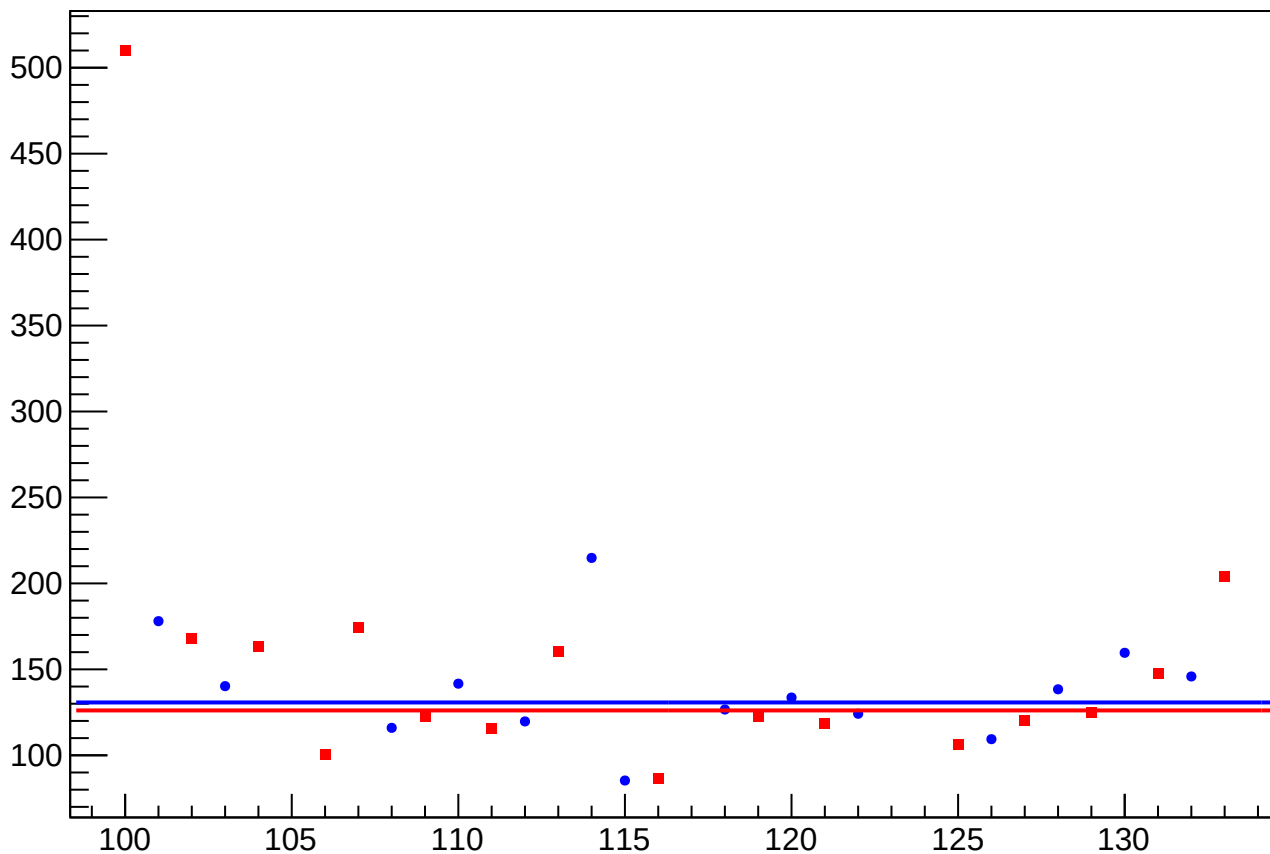
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.022+/-0.039  $\chi^2/\text{NDF}$ : 38.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 130.743+/-0.040  $\chi^2/\text{NDF}$ : 301264.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 126.105+/-0.038  $\chi^2/\text{NDF}$ : 539570.2/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

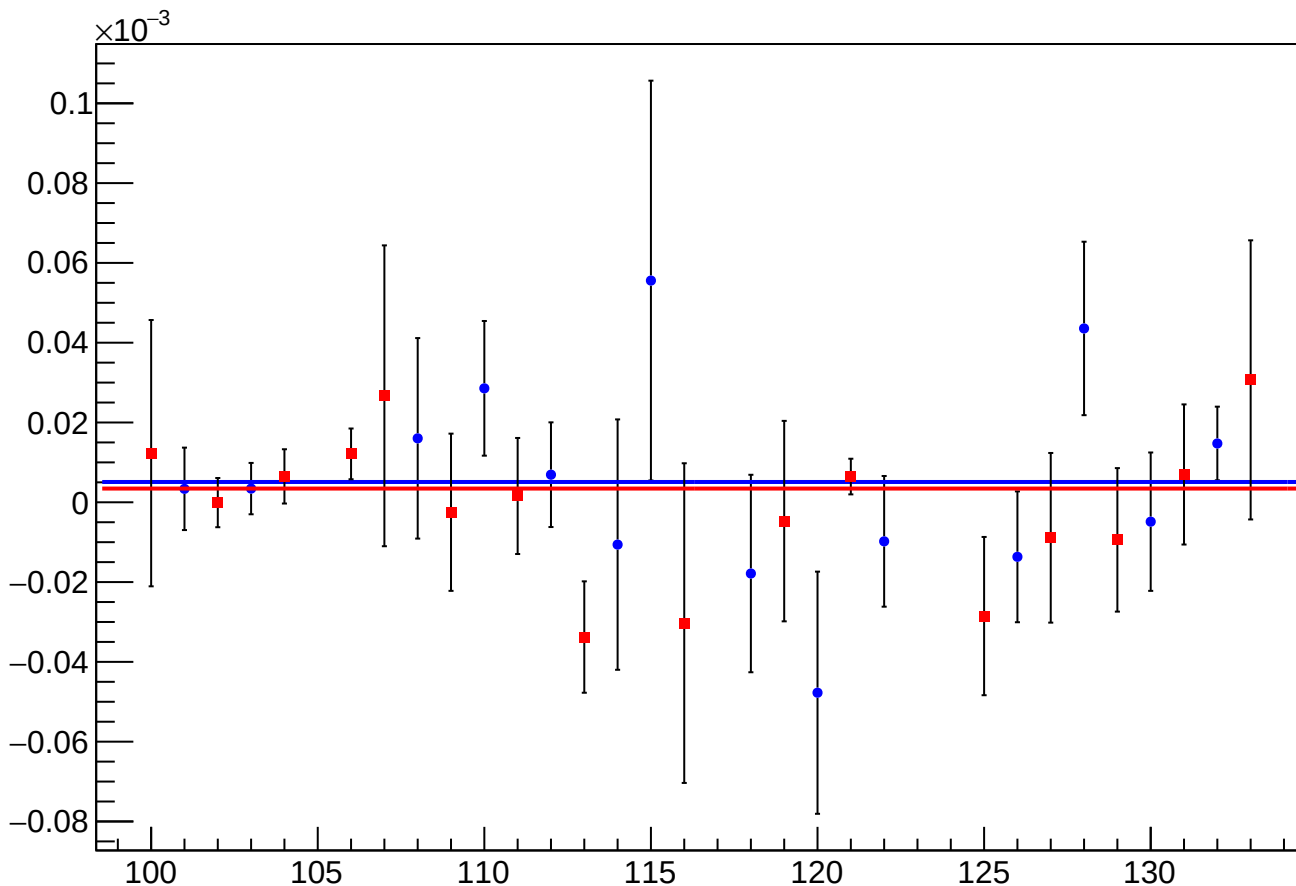
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 128.301+/-0.027  $\chi^2/\text{NDF}$ : 847965.7/29

- 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  $\chi^2$ /NDF: 14.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.4/15

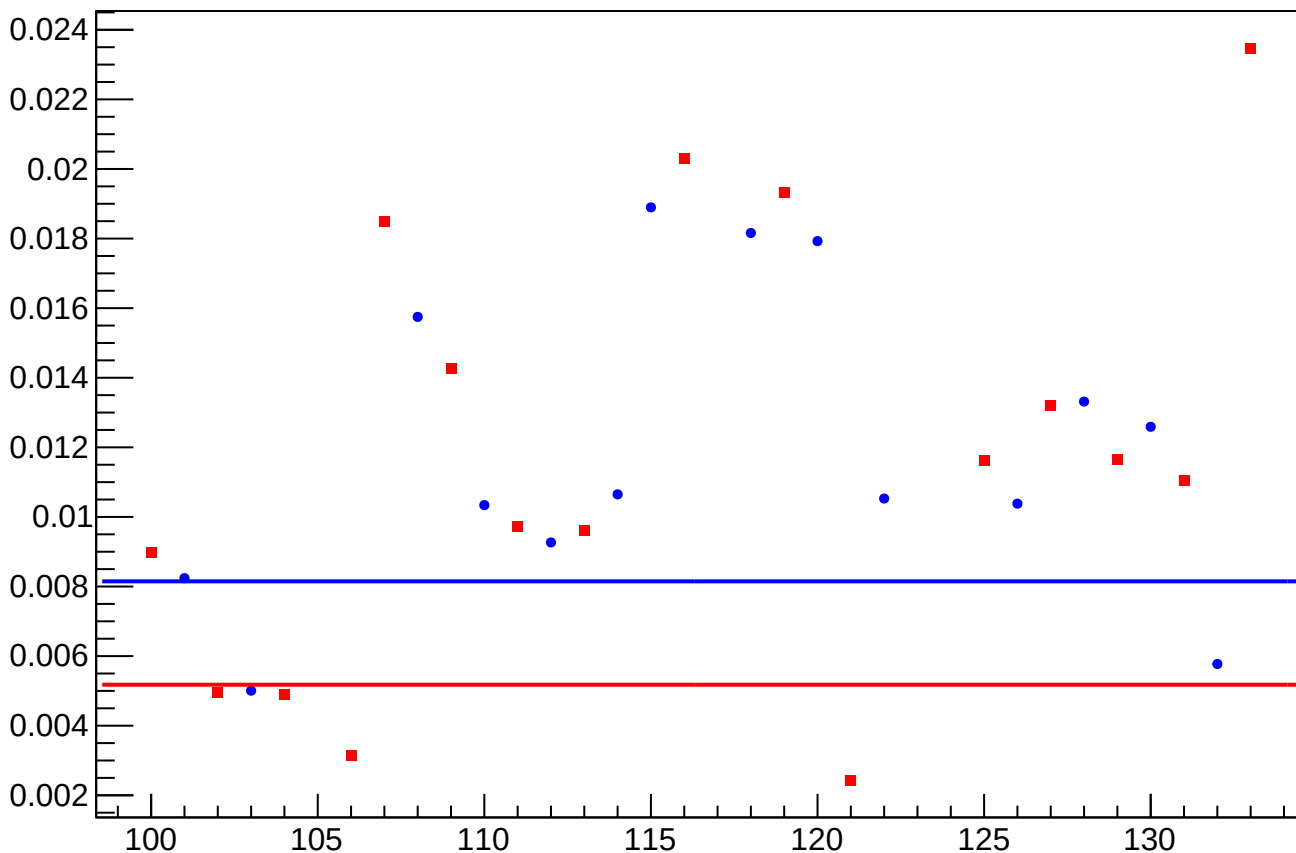
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 29.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 1803742.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 4515401.5/15

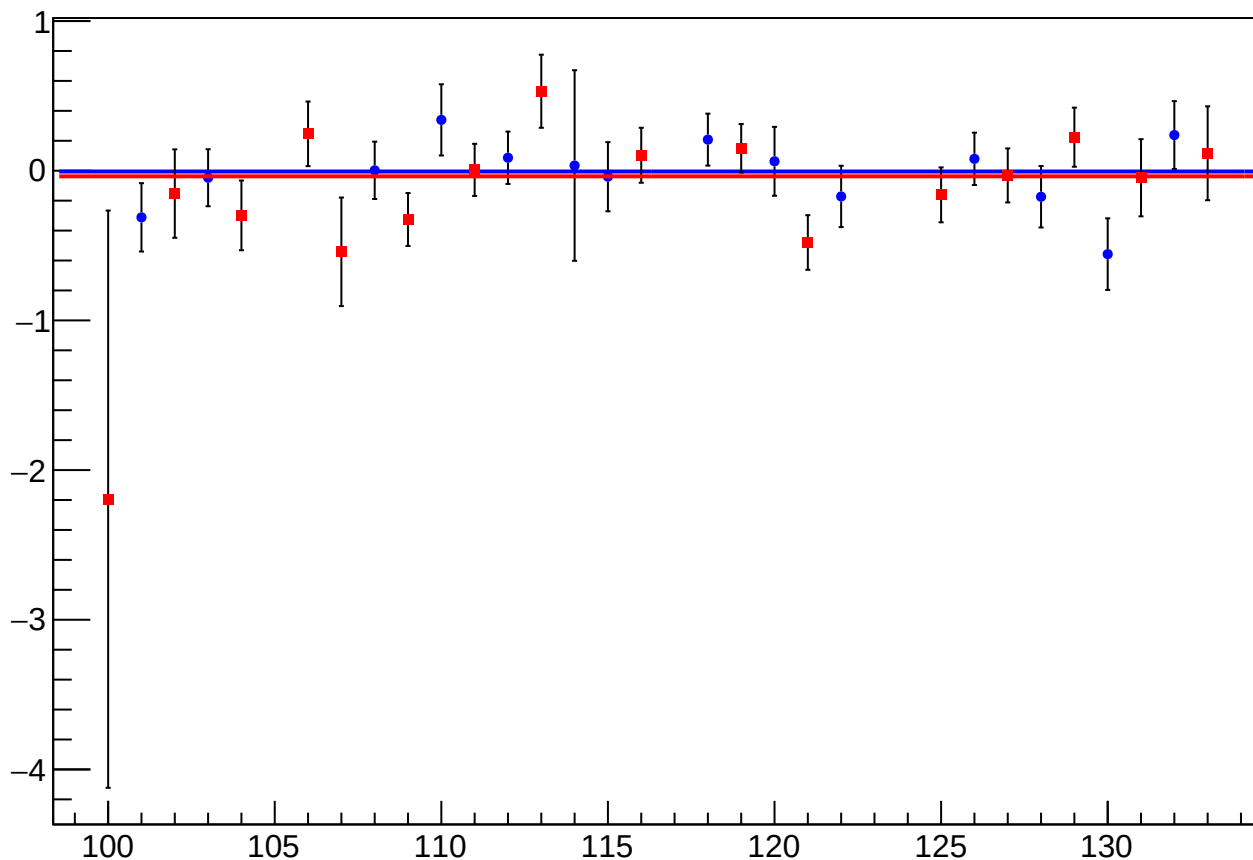
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 7188750.5/29

- 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:  $-0.005 \pm 0.056$   $\chi^2/\text{NDF}$ : 13.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.038 \pm 0.053$   $\chi^2/\text{NDF}$ : 24.7/15

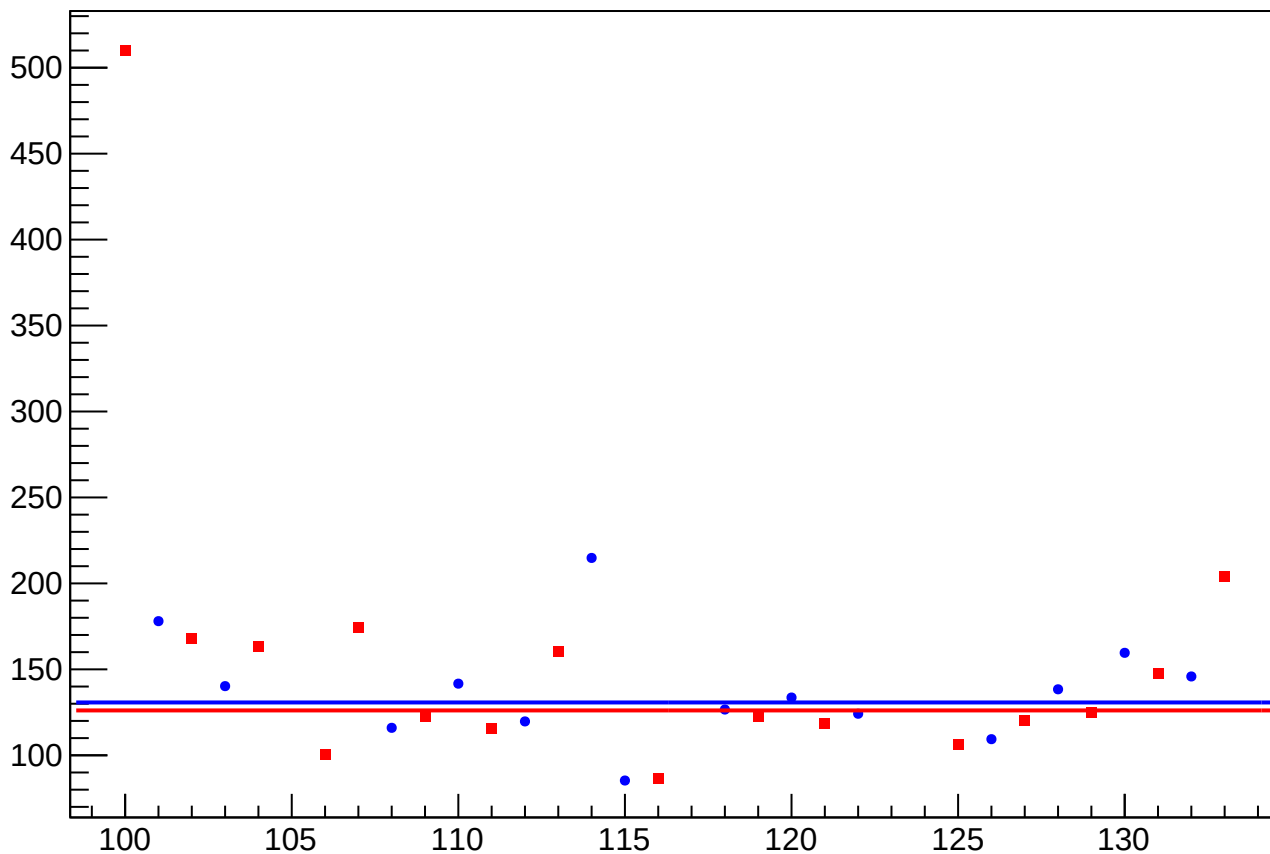
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.022 \pm 0.039$   $\chi^2/\text{NDF}$ : 38.8/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 130.743+/-0.040  $\chi^2/\text{NDF}$ : 301228.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 126.105+/-0.038  $\chi^2/\text{NDF}$ : 539512.8/15

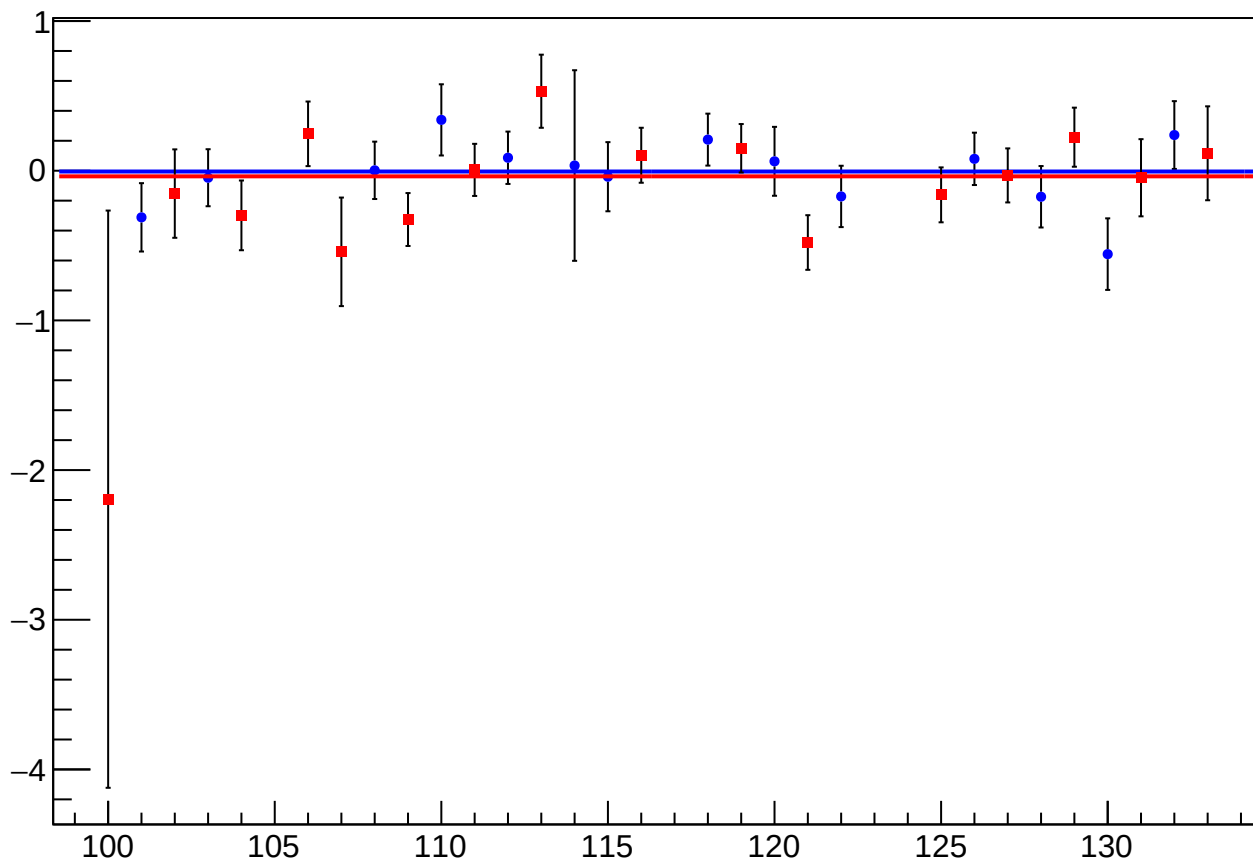
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 128.301+/-0.027  $\chi^2/\text{NDF}$ : 847872.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.005+/-0.056  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.038+/-0.053  $\chi^2/\text{NDF}$ : 24.7/15

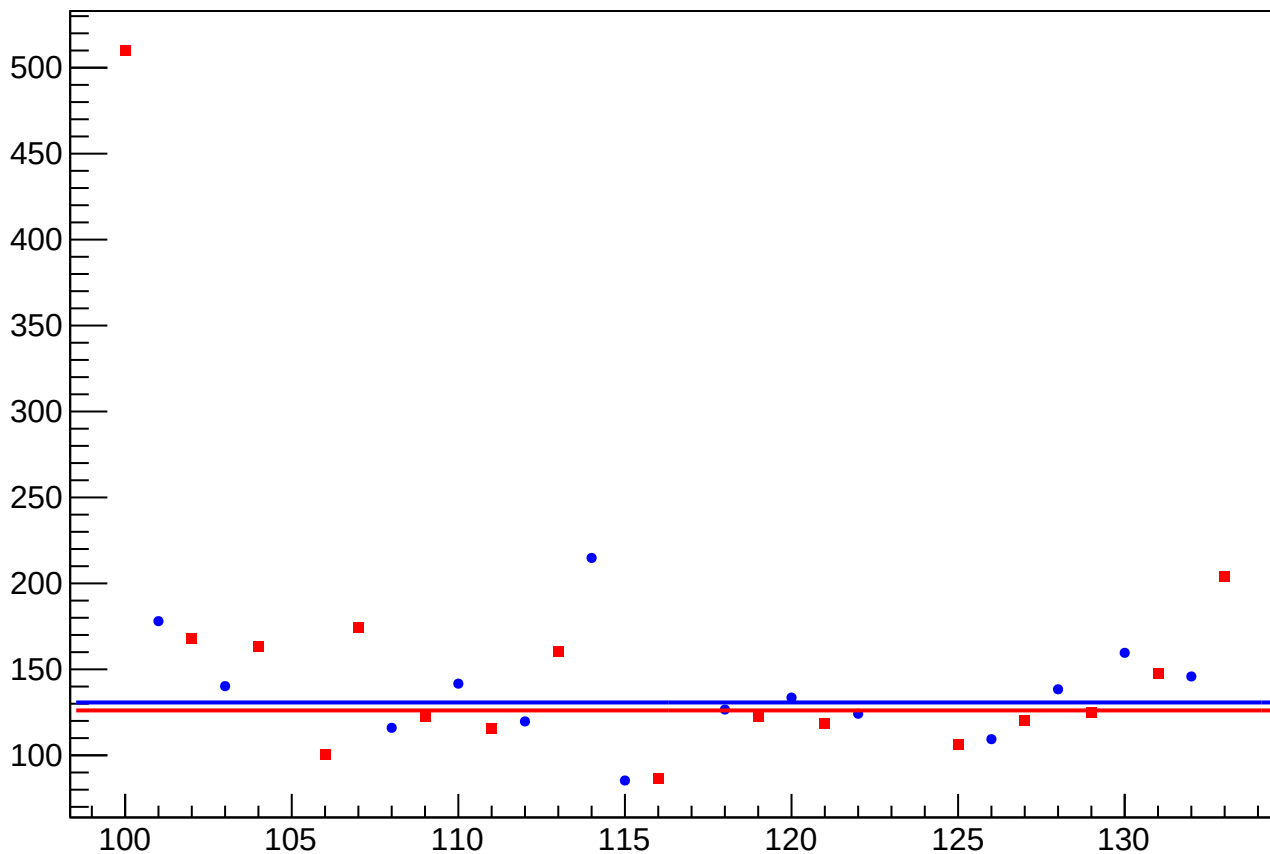
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.022+/-0.039  $\chi^2/\text{NDF}$ : 38.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 130.743+/-0.040  $\chi^2/\text{NDF}$ : 301228.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 126.105+/-0.038  $\chi^2/\text{NDF}$ : 539512.8/15

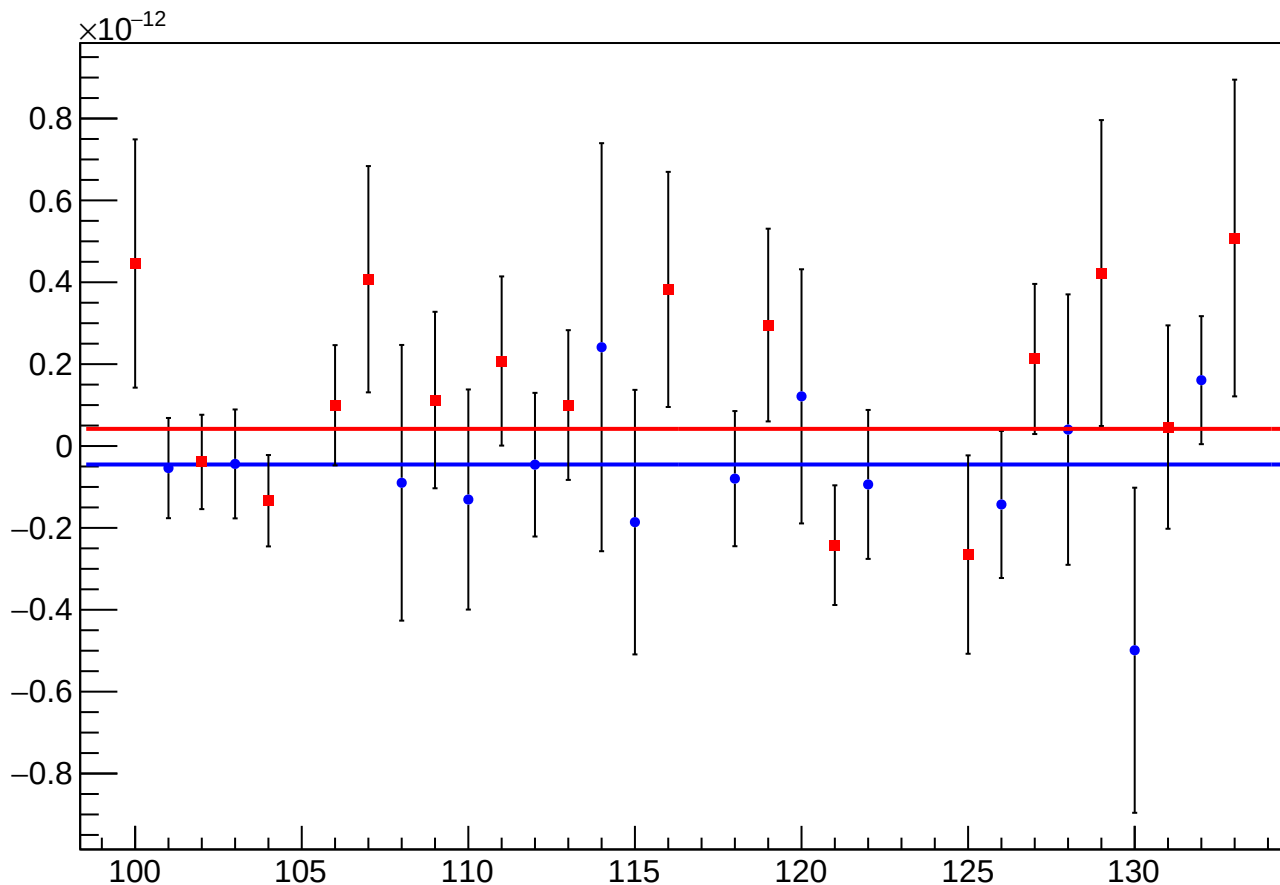
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 128.301+/-0.027  $\chi^2/\text{NDF}$ : 847872.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 4.5/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 18.8/15

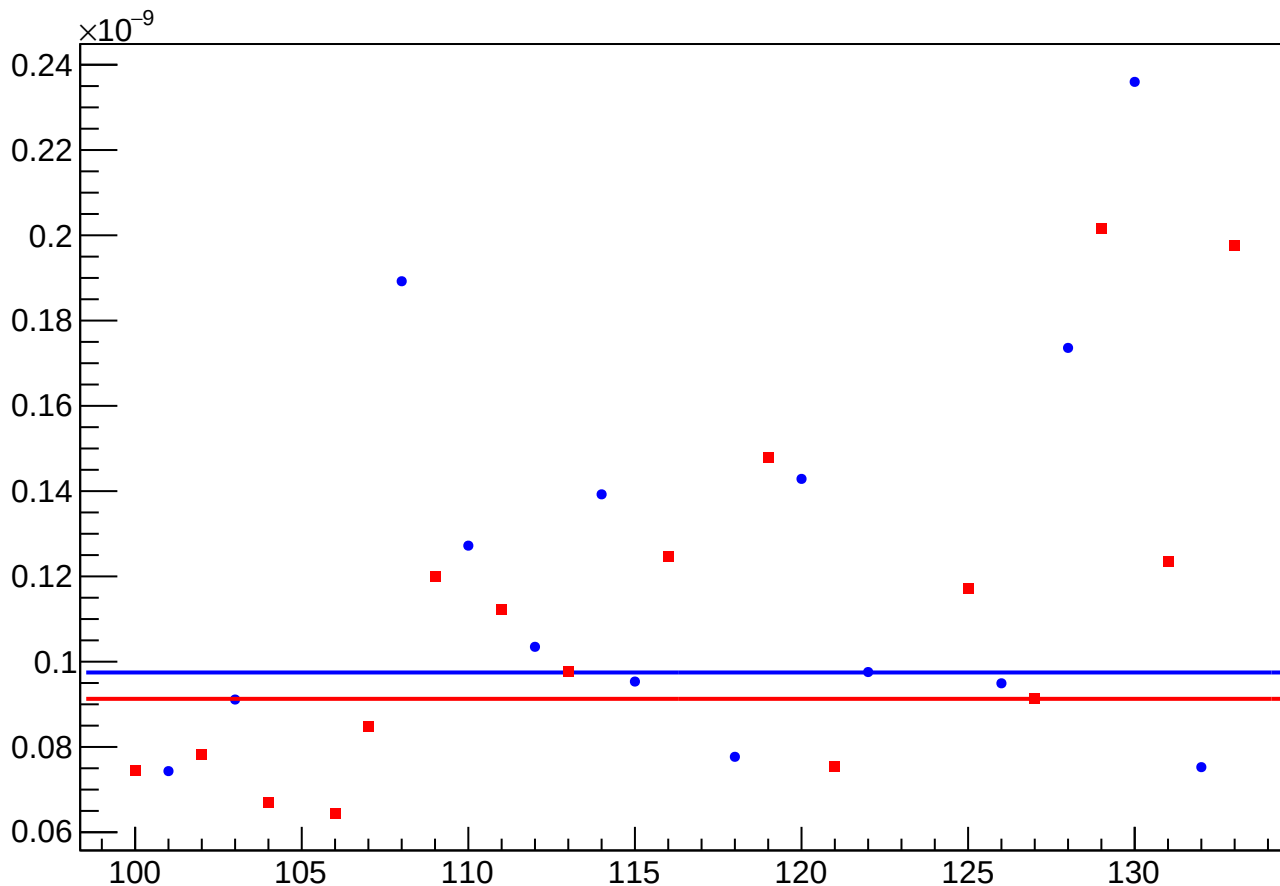
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 24.8/29

- sign 0.000+/-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  $\chi^2/\text{NDF}$ : 727373.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 800563.3/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

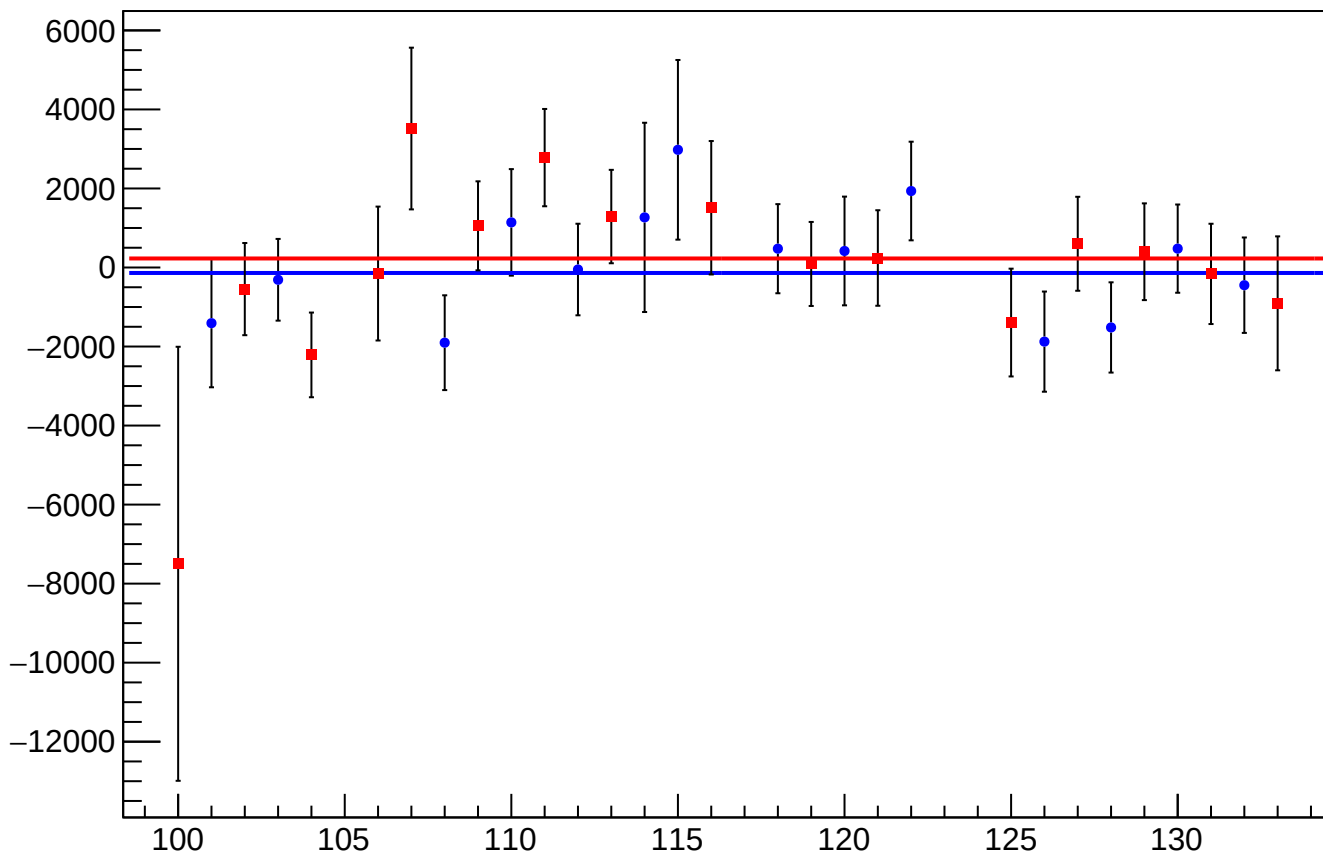
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1543219.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -138.419+/-342.854  $\chi^2/\text{NDF}$ : 12.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 228.256+/-329.833  $\chi^2/\text{NDF}$ : 18.6/15

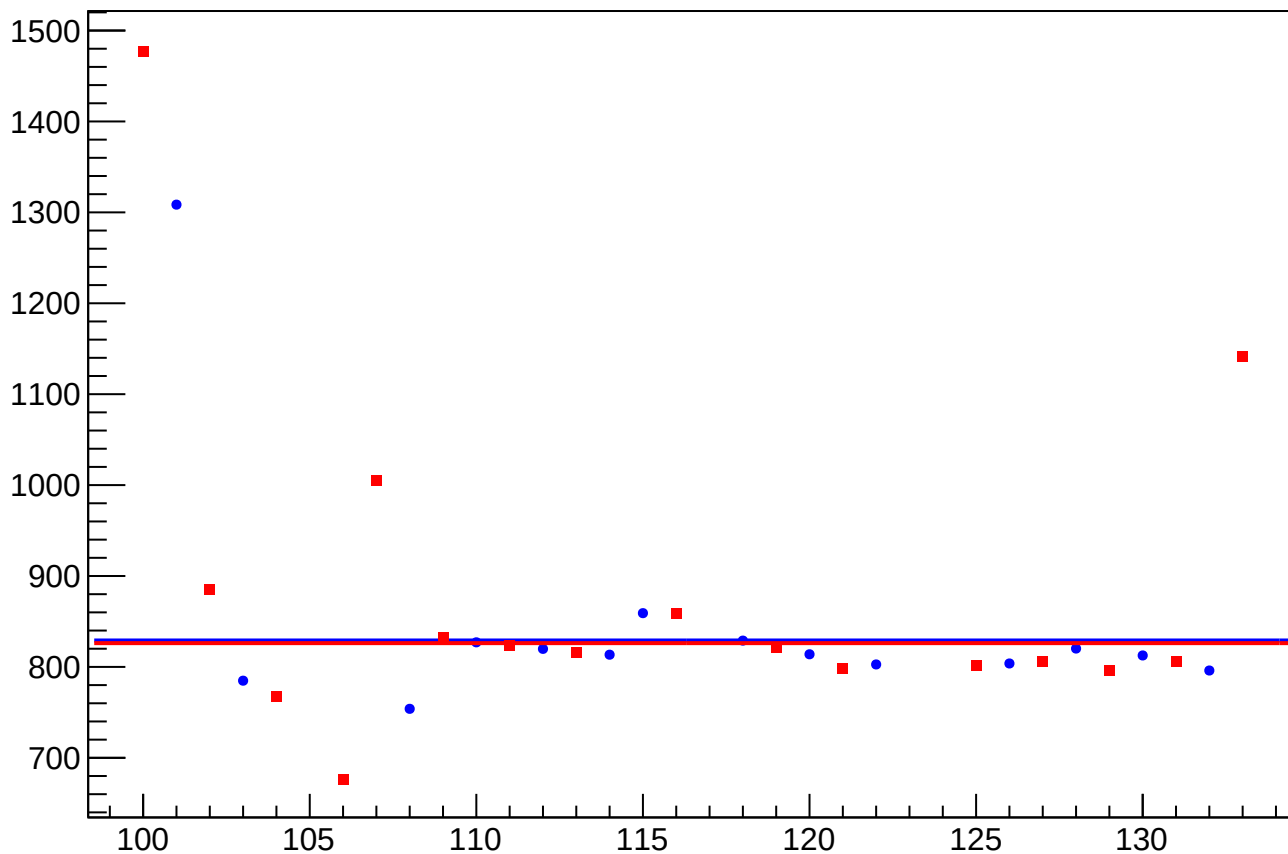
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52.013+/-237.697  $\chi^2/\text{NDF}$ : 32.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 829.072+/-0.242  $\chi^2/\text{NDF}$ : 190520.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 826.155+/-0.230  $\chi^2/\text{NDF}$ : 155426.2/15

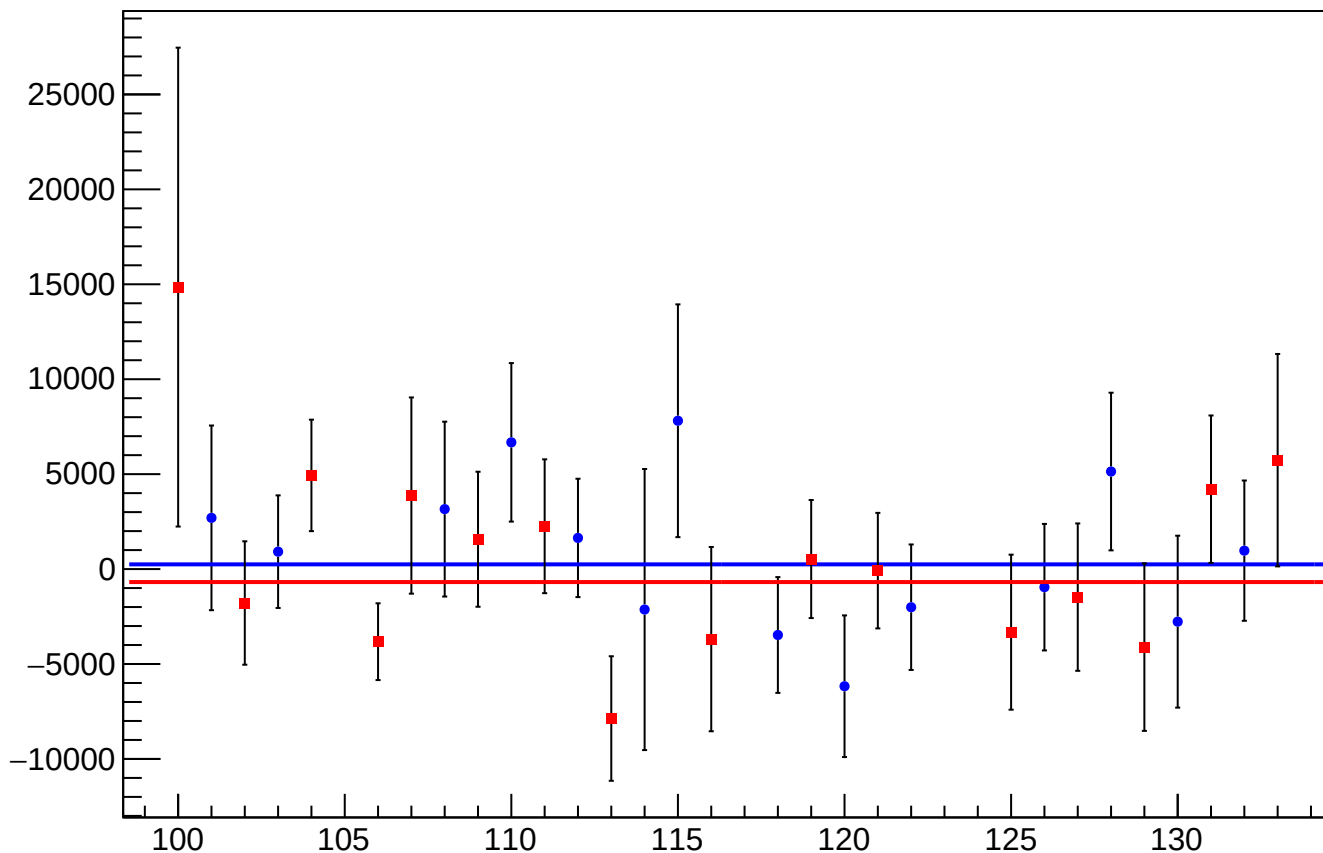
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 827.538+/-0.167  $\chi^2/\text{NDF}$ : 346023.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_reg\_correction\_mean vs Slug



Right In: 248.206 $\pm$ 1026.304  $\chi^2$ /NDF: 11.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -684.157 $\pm$ 883.327  $\chi^2$ /NDF: 18.9/15

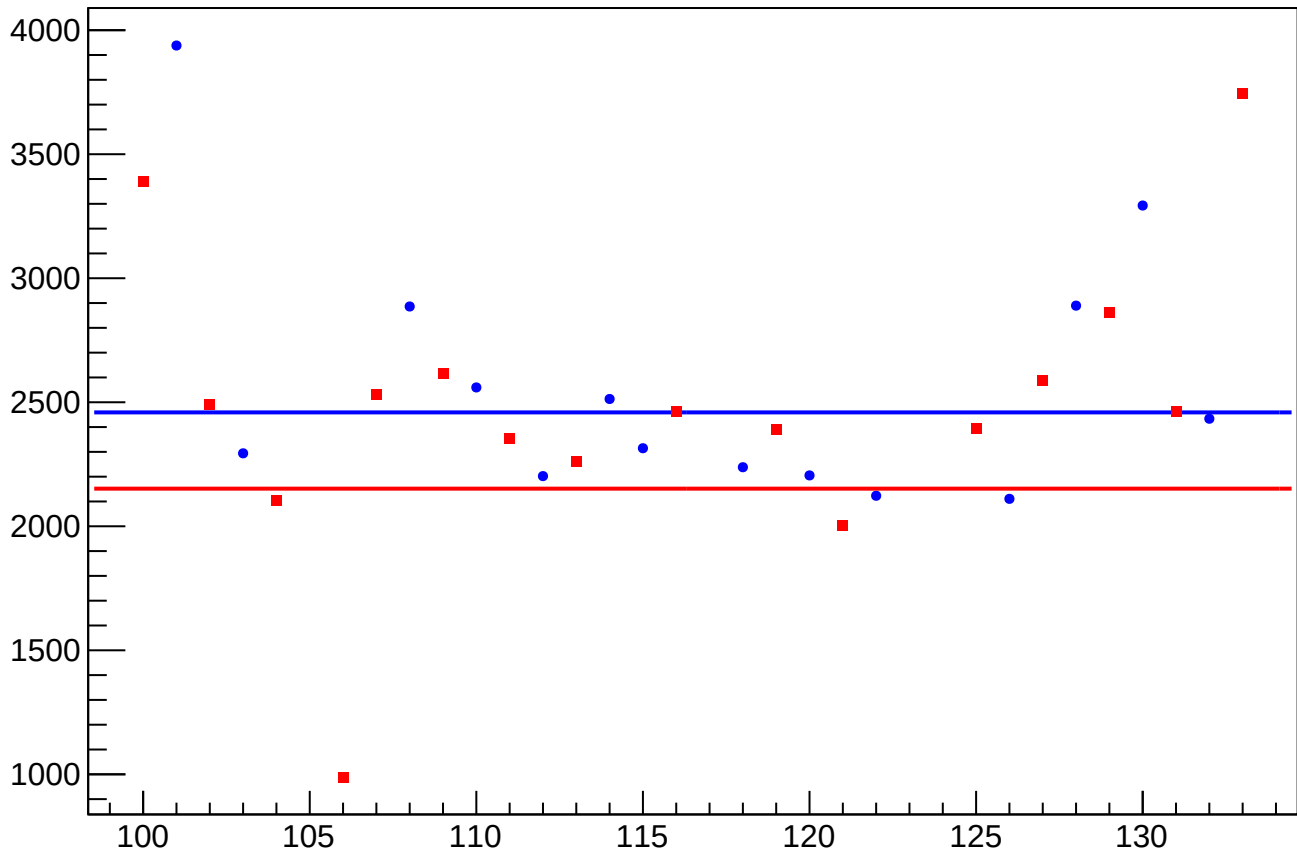
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -287.394 $\pm$ 669.498  $\chi^2$ /NDF: 31.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_reg\_correction\_rms vs Slug



Right In: 2459.127+/-0.726  $\chi^2/\text{NDF}$ : 376103.3/13

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

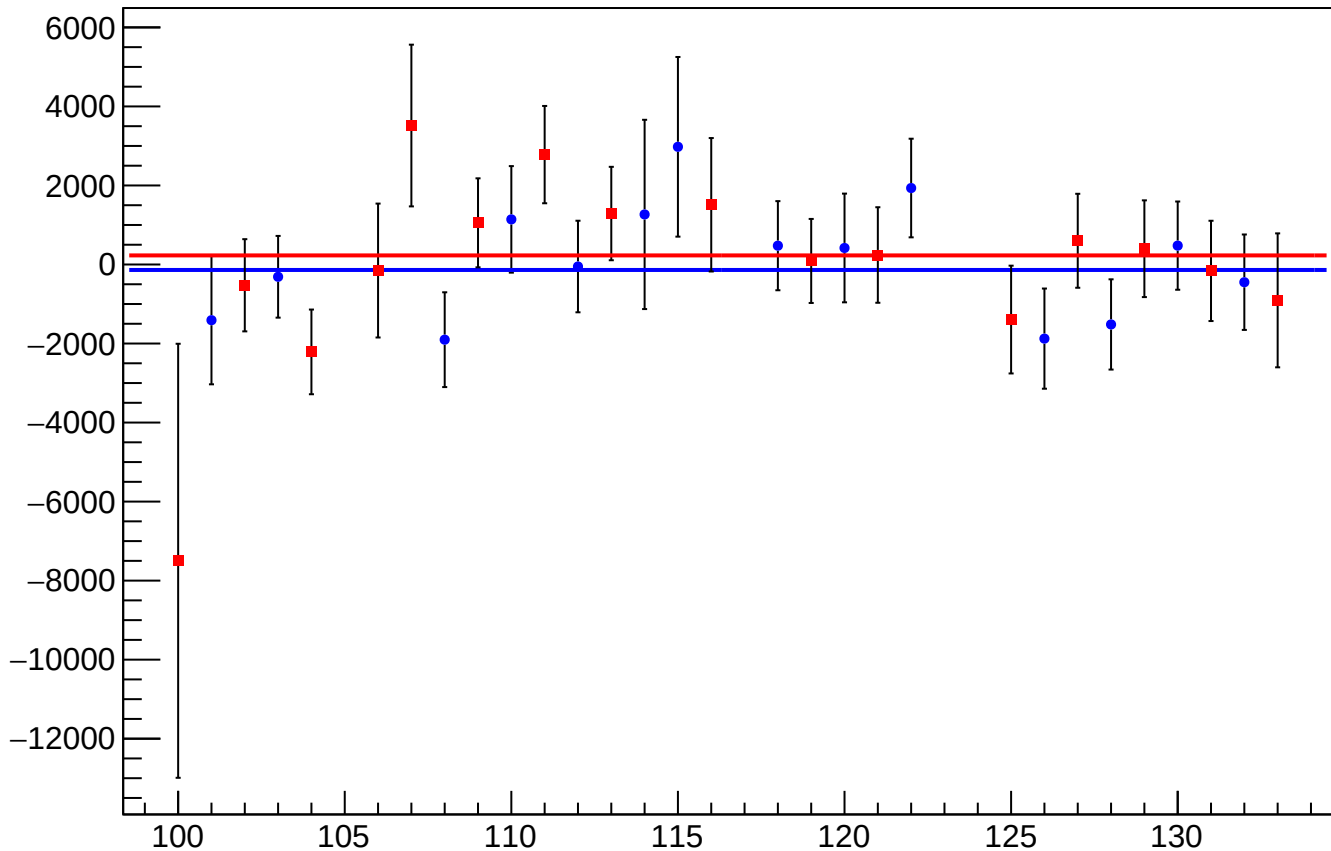
Right Out: 2151.711+/-0.625  $\chi^2/\text{NDF}$ : 1042947.4/15

All: 2282.530+/-0.473  $\chi^2/\text{NDF}$ : 1522133.3/29

- 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\_usl\_atl2\_dd\_mean vs Slug



Right In: -138.522+/-342.854  $\chi^2$ /NDF: 12.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 229.952+/-329.839  $\chi^2$ /NDF: 18.5/15

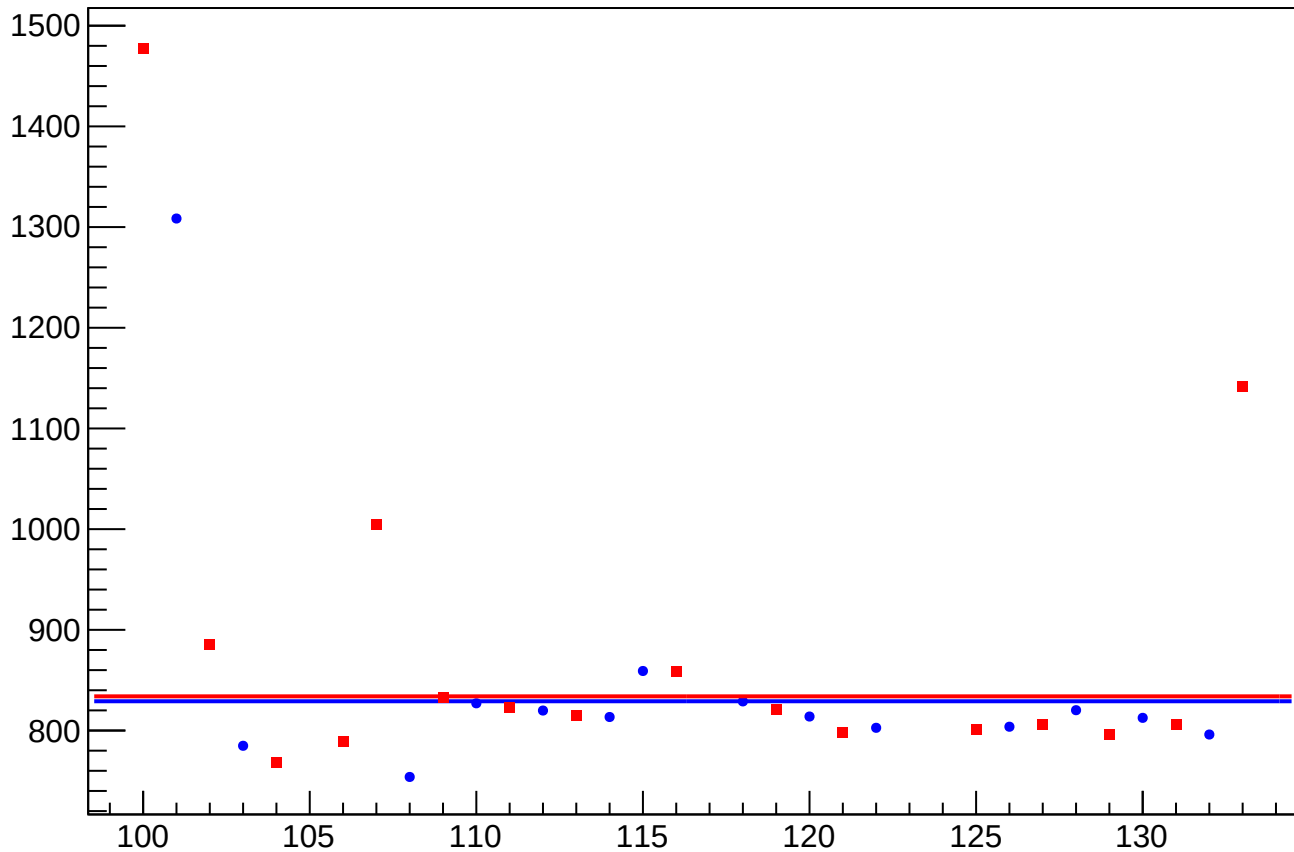
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 52.841+/-237.699  $\chi^2$ /NDF: 32.0/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 829.072 $\pm$ 0.242  $\chi^2$ /NDF: 190520.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 833.951 $\pm$ 0.232  $\chi^2$ /NDF: 128775.4/15

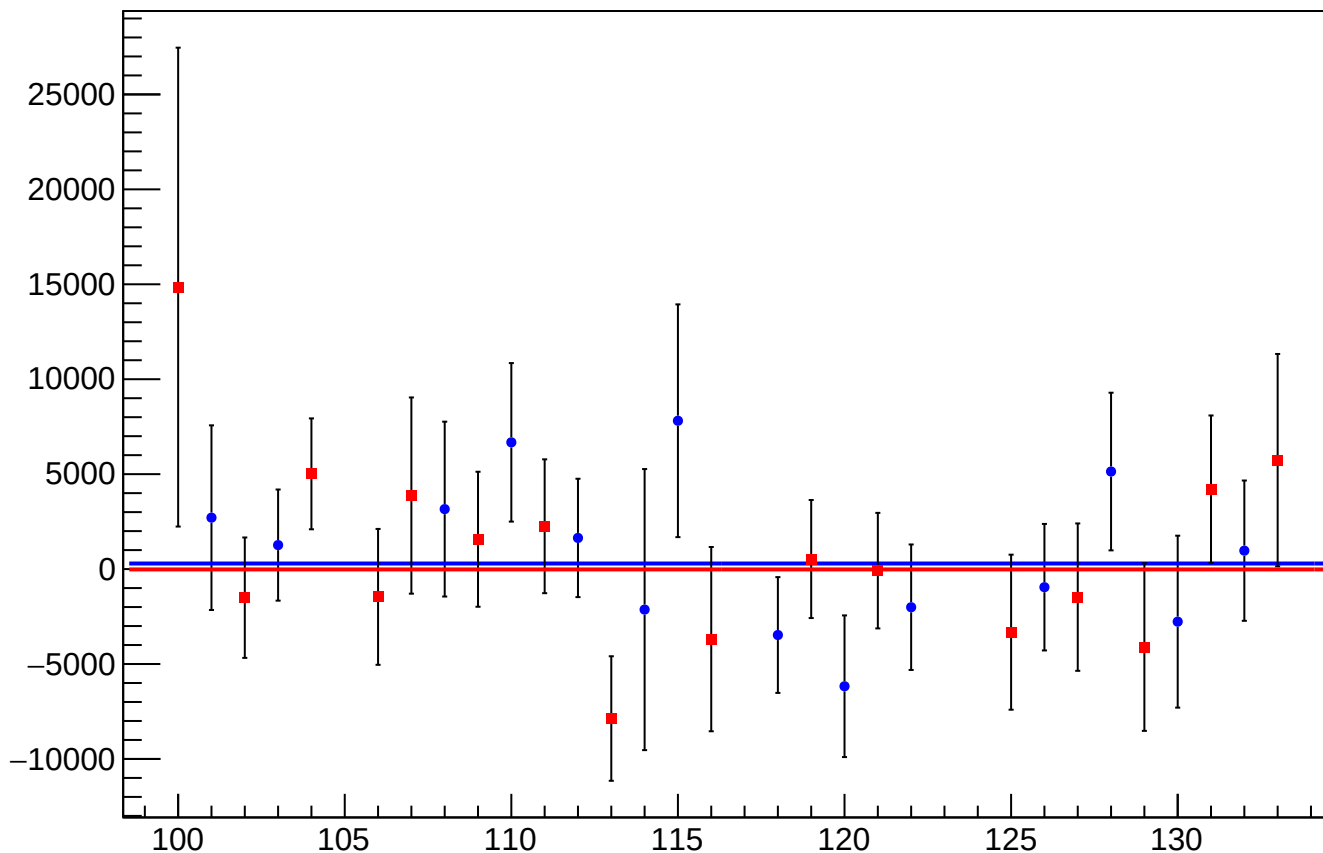
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 831.619 $\pm$ 0.168  $\chi^2$ /NDF: 319507.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_cor\_correction\_mean vs Slug



Right In: 293.332 $\pm$ 1024.664  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -18.278 $\pm$ 944.454  $\chi^2$ /NDF: 16.2/15

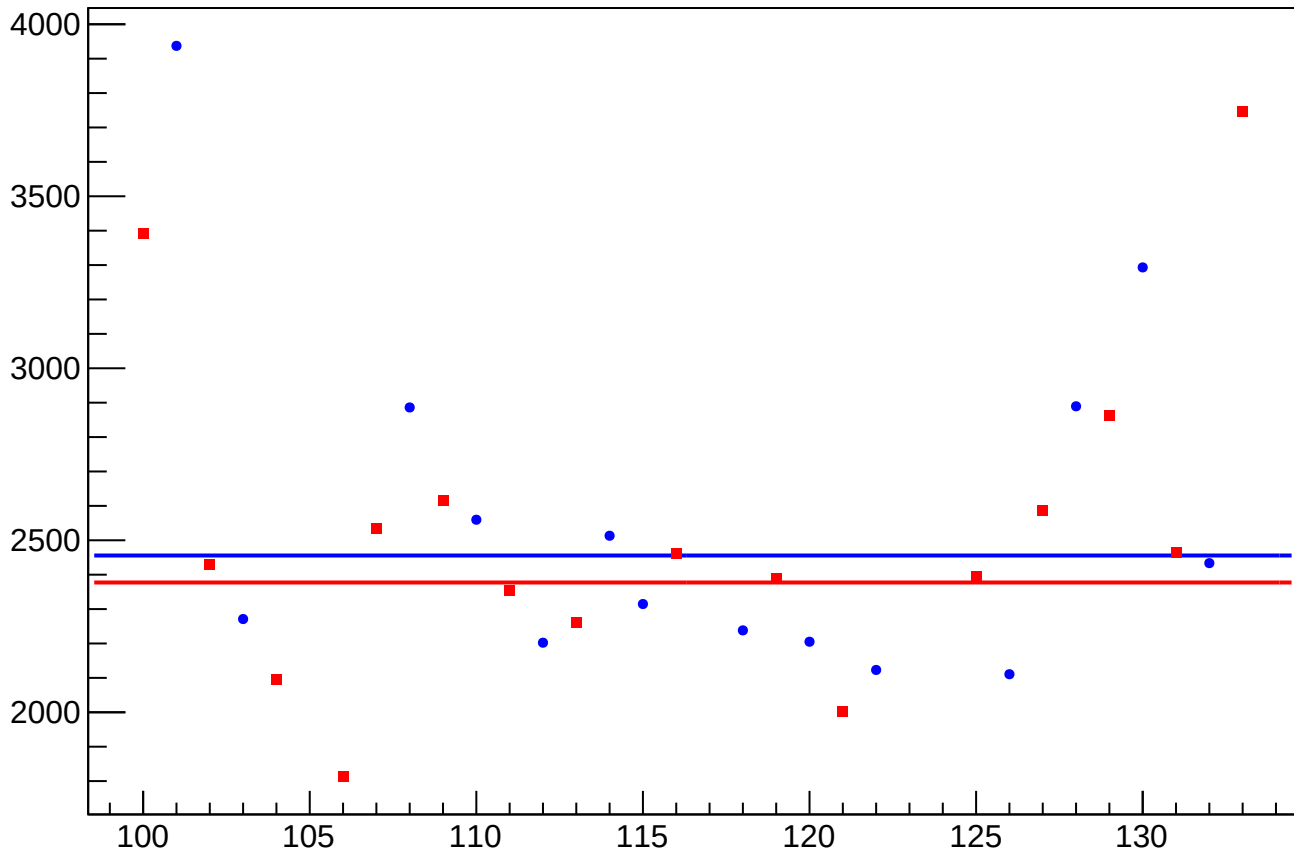
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 124.855 $\pm$ 694.457  $\chi^2$ /NDF: 28.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_cor\_correction\_rms vs Slug



Right In: 2455.760 $\pm$ 0.725  $\chi^2$ /NDF: 377999.4/13

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: 2377.287 $\pm$ 0.668  $\chi^2$ /NDF: 277369.9/15

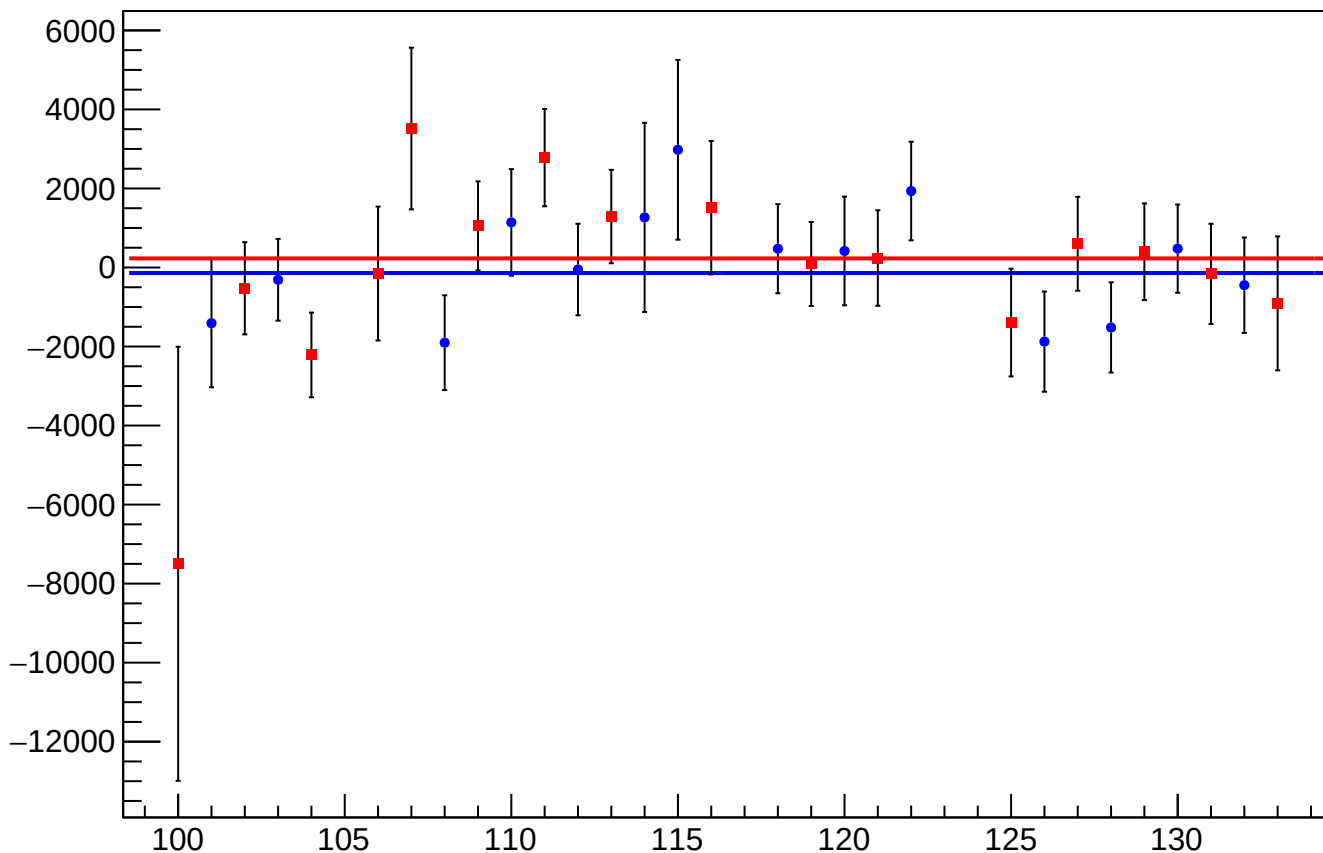
All: 2413.332 $\pm$ 0.491  $\chi^2$ /NDF: 661711.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_cor\_asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -138.522+/-342.854  $\chi^2$ /NDF: 12.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 229.952+/-329.839  $\chi^2$ /NDF: 18.5/15

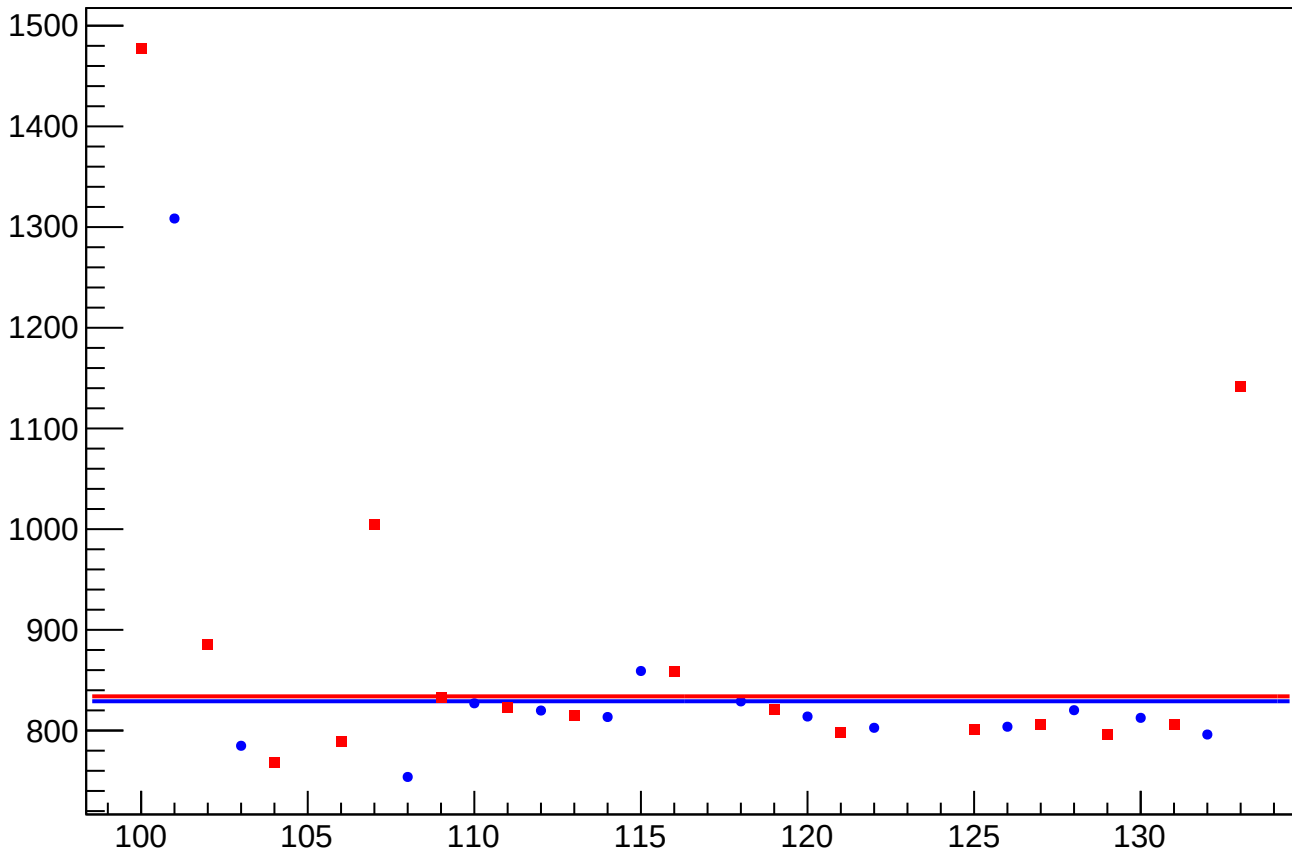
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 52.841+/-237.699  $\chi^2$ /NDF: 32.0/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 829.072 $\pm$ 0.242  $\chi^2$ /NDF: 190520.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 833.951 $\pm$ 0.232  $\chi^2$ /NDF: 128775.4/15

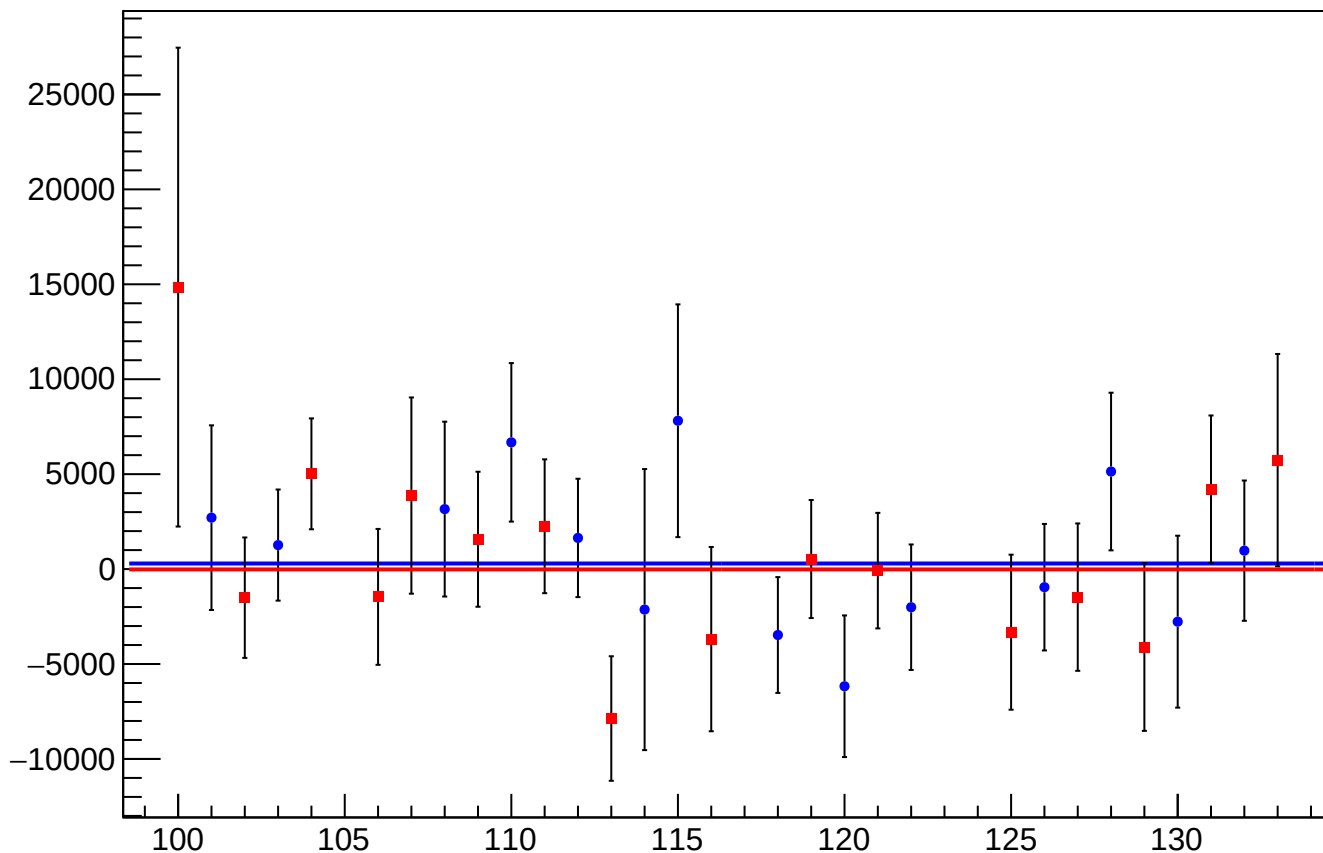
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 831.619 $\pm$ 0.168  $\chi^2$ /NDF: 319507.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 293.332 $\pm$ 1024.664  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -18.278 $\pm$ 944.454  $\chi^2$ /NDF: 16.2/15

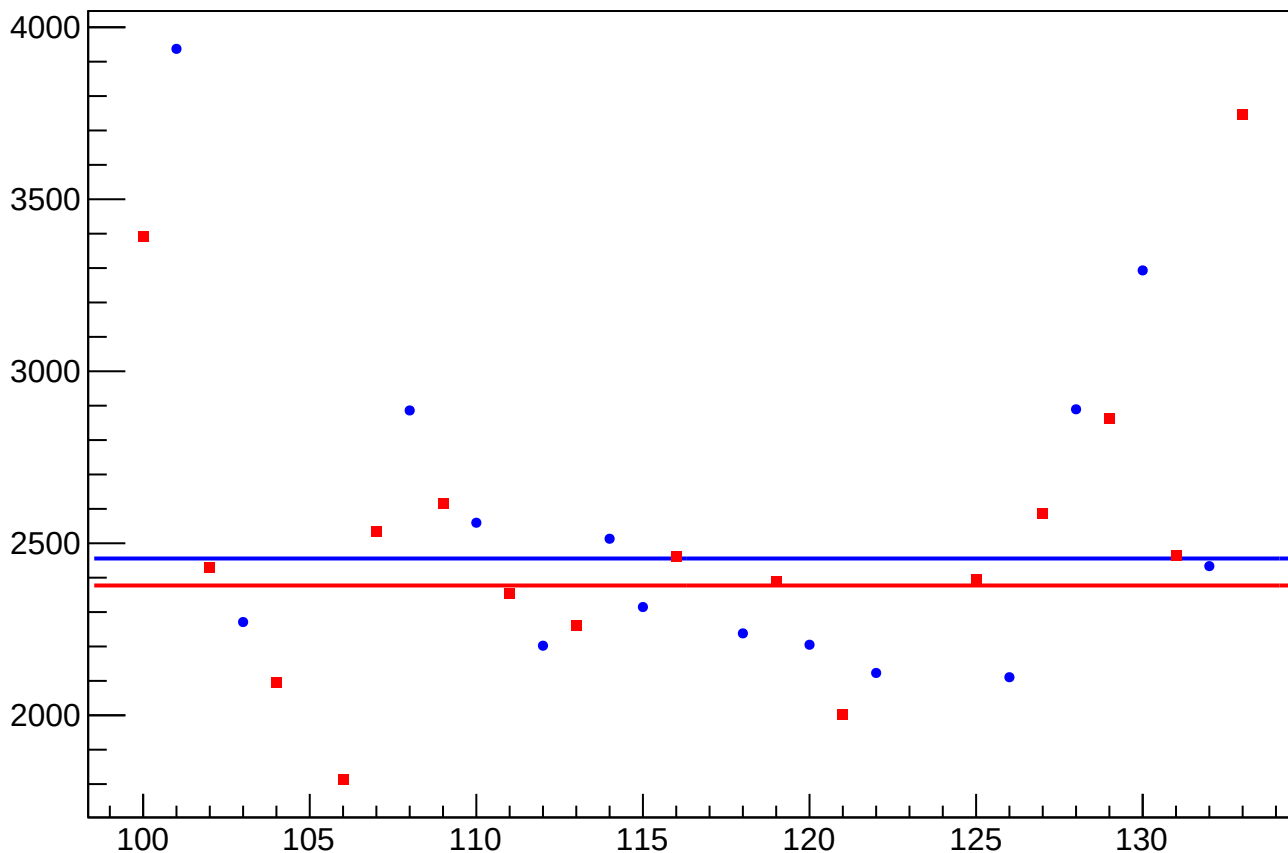
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 124.855 $\pm$ 694.457  $\chi^2$ /NDF: 28.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 2455.760+/-0.725  $\chi^2/\text{NDF}$ : 377999.4/13

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

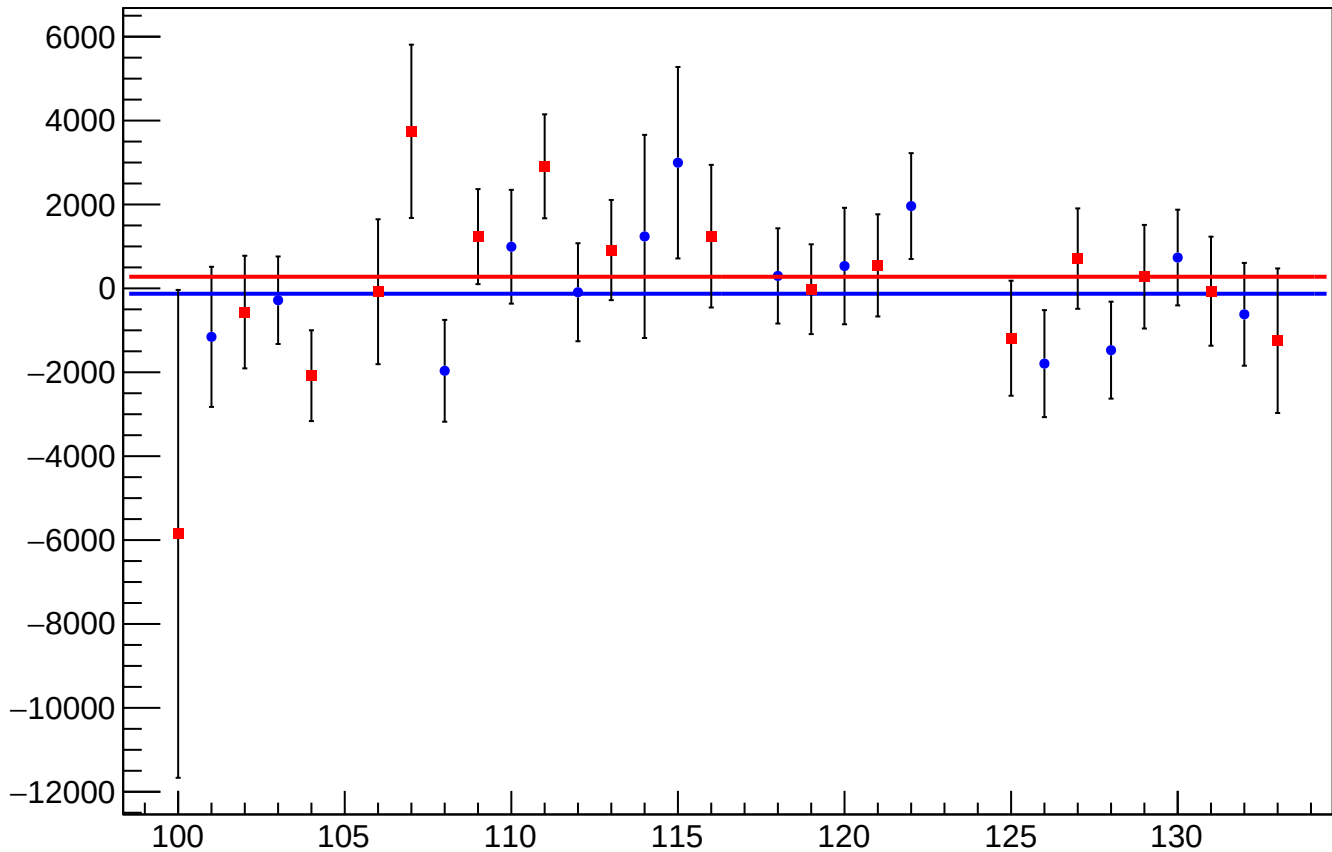
Right Out: 2377.287+/-0.668  $\chi^2/\text{NDF}$ : 277369.9/15

All: 2413.332+/-0.491  $\chi^2/\text{NDF}$ : 661711.6/29

- 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\_usl\_atl2\_dd\_mean vs Slug



Right In: -127.814+/-346.743  $\chi^2/\text{NDF}$ : 12.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 277.366+/-336.220  $\chi^2/\text{NDF}$ : 17.2/15

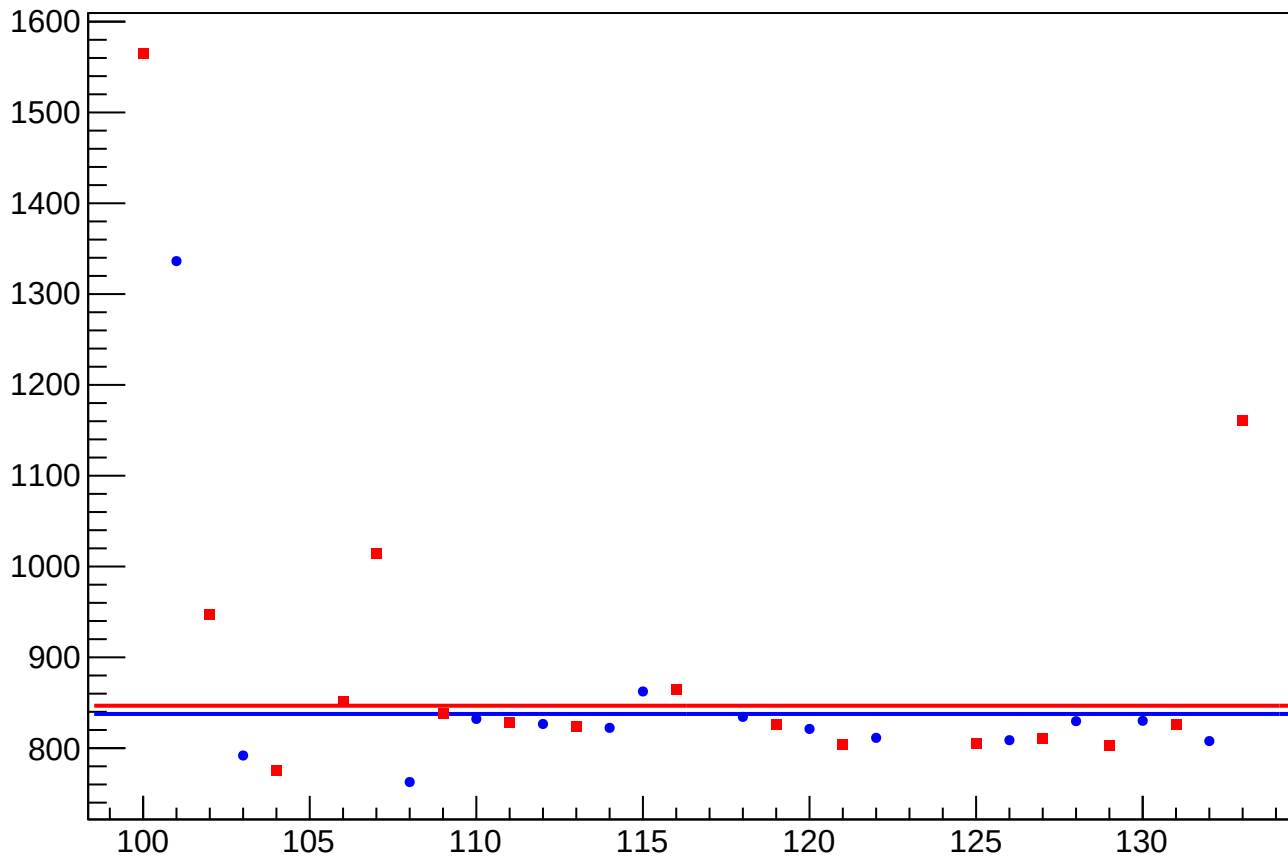
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 81.018+/-241.378  $\chi^2/\text{NDF}$ : 30.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 837.656+/-0.245  $\chi^2/\text{NDF}$ : 193906.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 846.718+/-0.237  $\chi^2/\text{NDF}$ : 141171.5/15

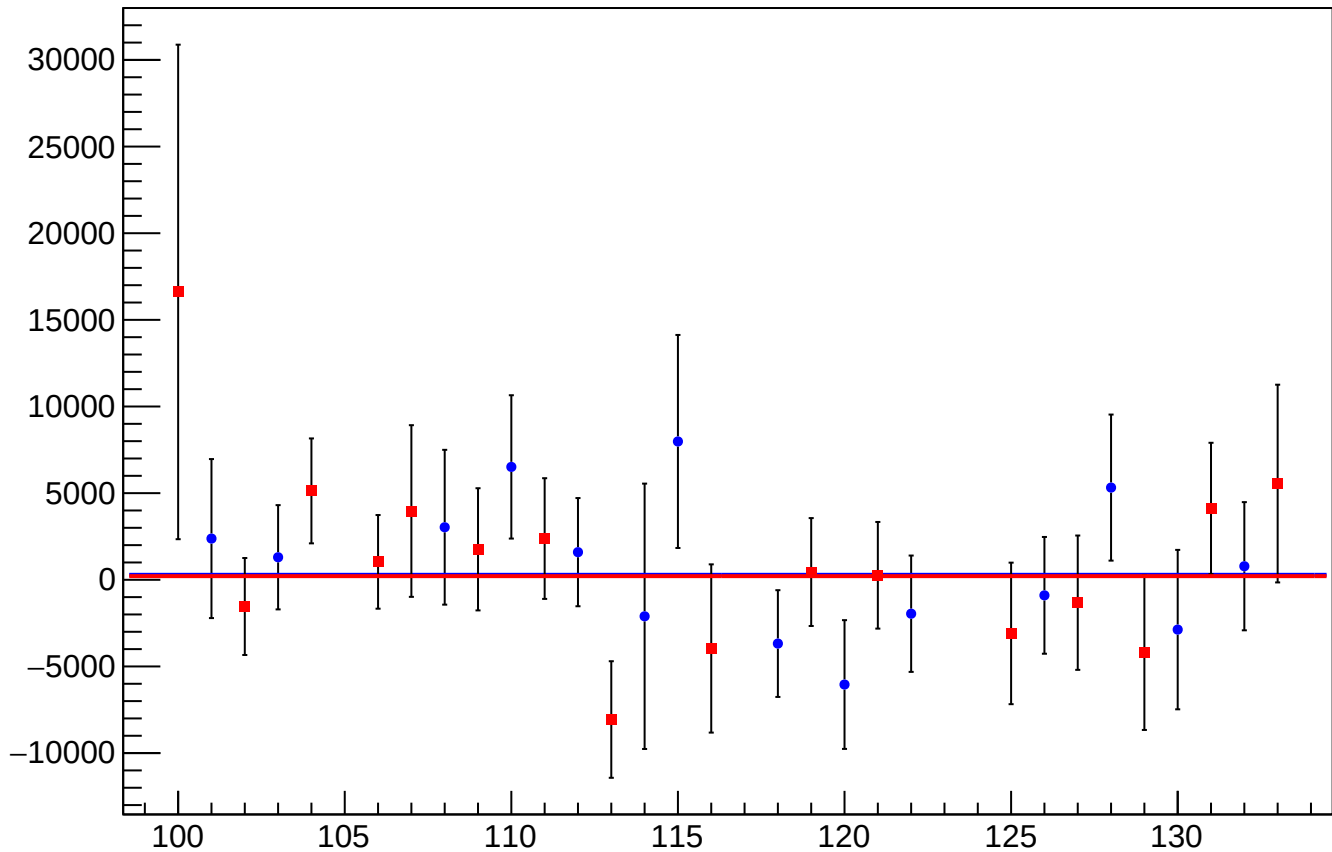
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 842.331+/-0.171  $\chi^2/\text{NDF}$ : 335782.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_dit\_correction\_mean vs Slug



Right In: 287.275+/-1029.187  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 210.879+/-913.298  $\chi^2/\text{NDF}$ : 16.1/15

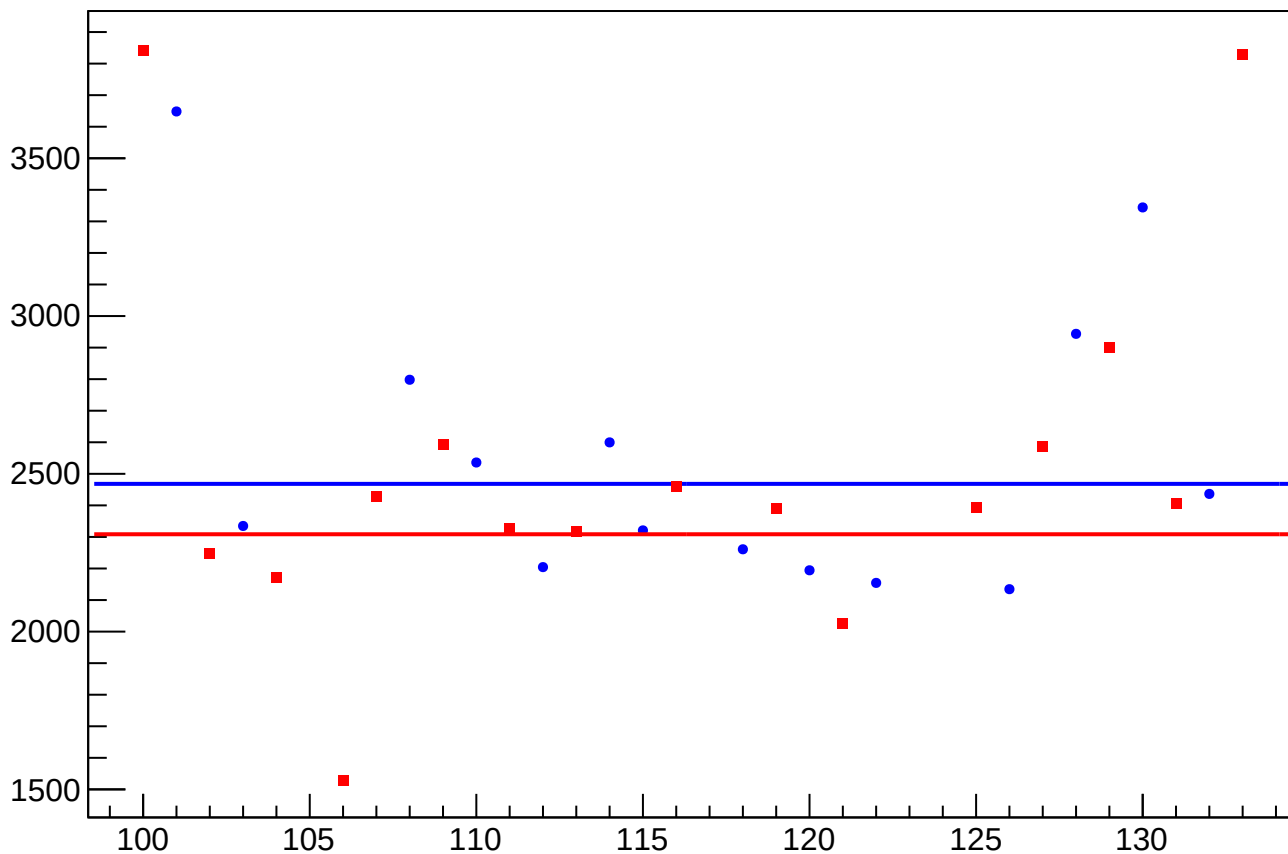
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 244.535+/-683.113  $\chi^2/\text{NDF}$ : 28.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_dit\_correction\_rms vs Slug



Right In: 2468.191+/-0.728  $\chi^2/\text{NDF}$ : 318894.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2308.509+/-0.646  $\chi^2/\text{NDF}$ : 418190.2/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

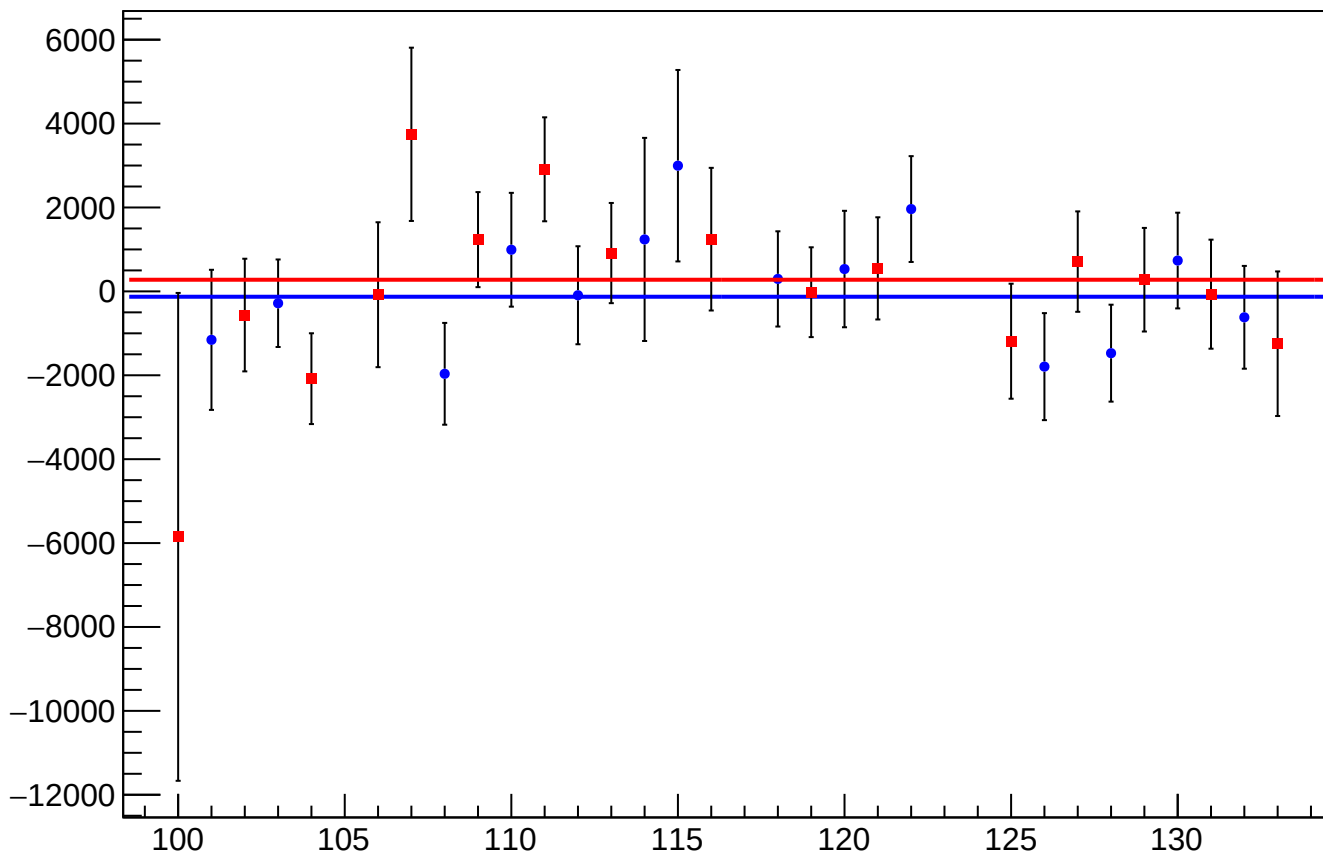
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2378.857+/-0.483  $\chi^2/\text{NDF}$ : 764019.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# eigen\_dit\_asym\_usl\_atl2\_dd\_mean vs Slug



Right In: -127.820+/-346.743  $\chi^2/\text{NDF}$ : 12.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 277.370+/-336.220  $\chi^2/\text{NDF}$ : 17.2/15

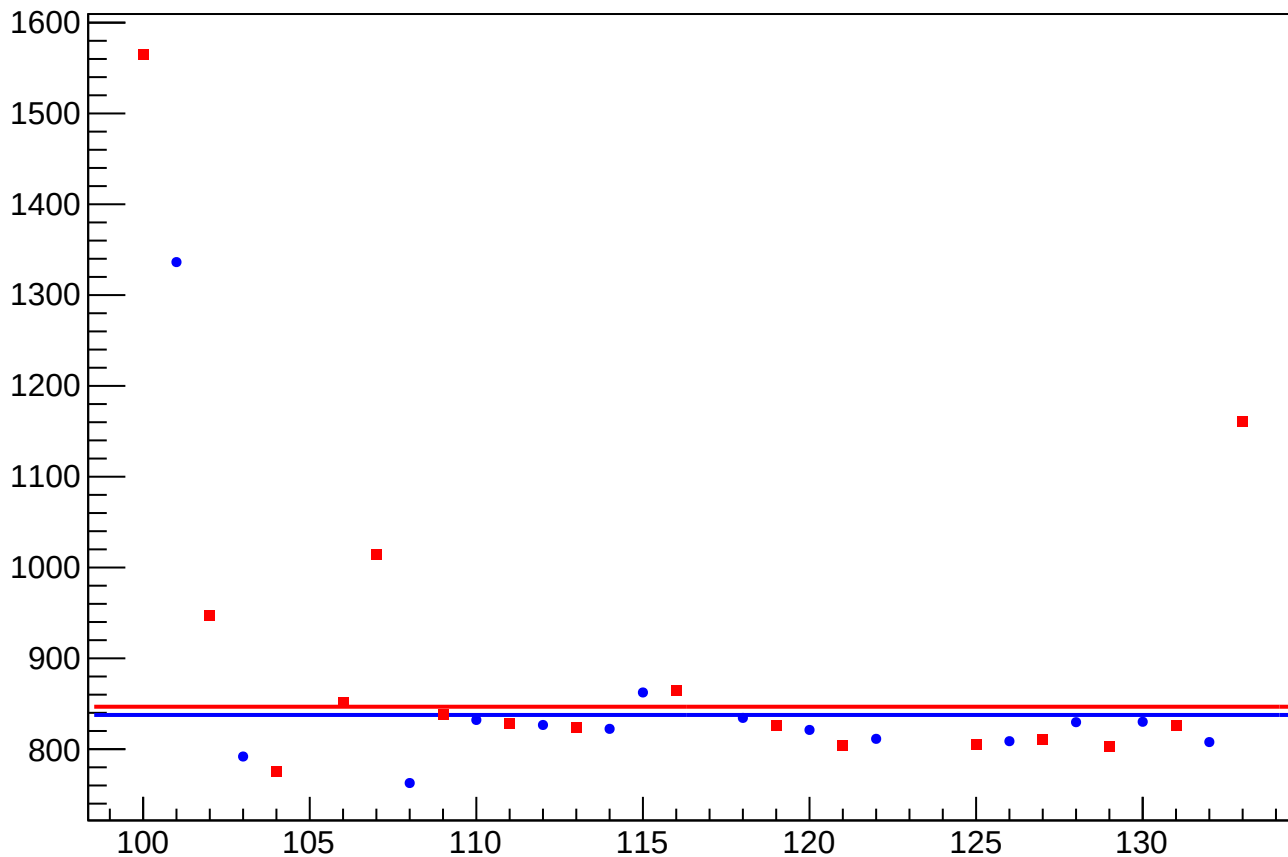
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 81.017+/-241.378  $\chi^2/\text{NDF}$ : 30.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 837.656+/-0.245  $\chi^2/\text{NDF}$ : 193905.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 846.718+/-0.237  $\chi^2/\text{NDF}$ : 141171.4/15

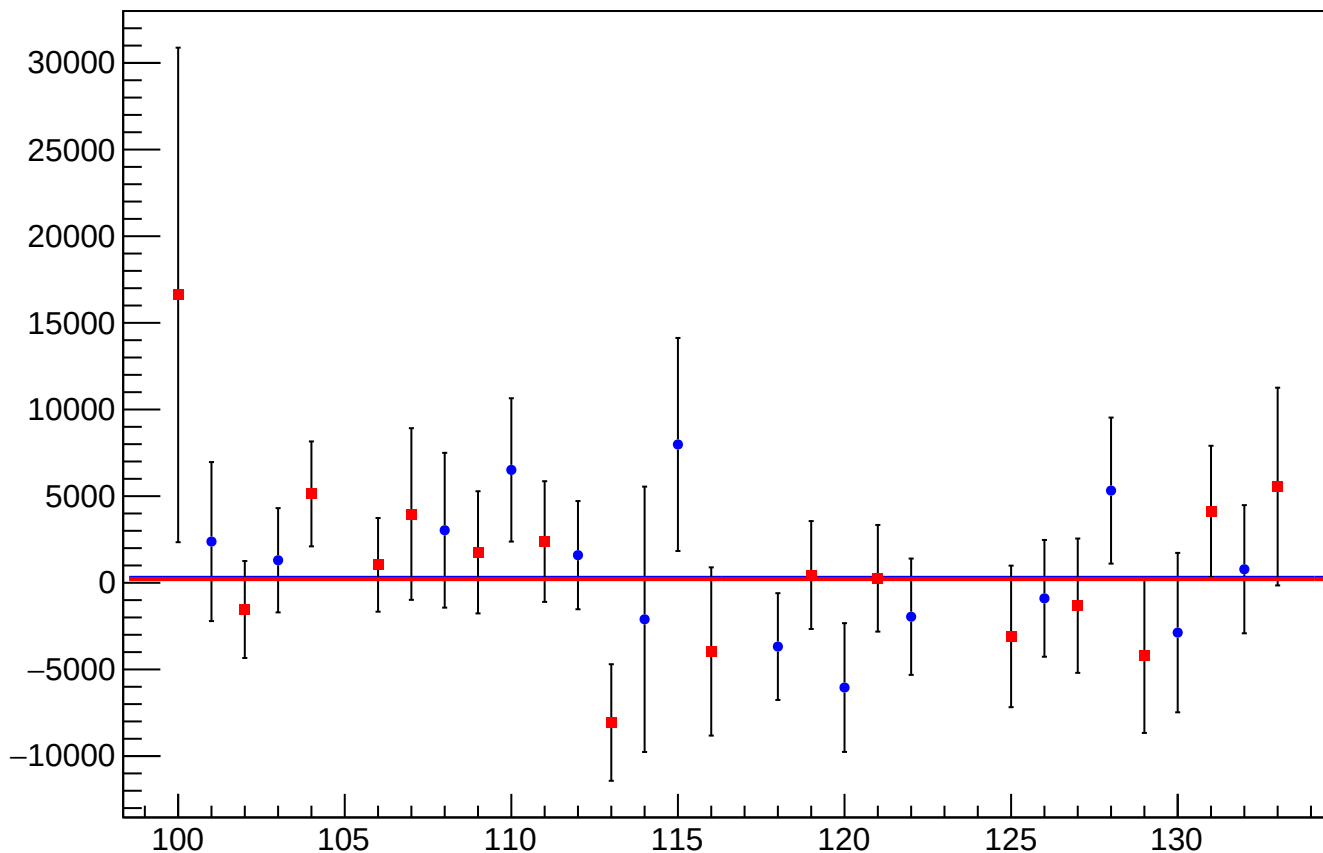
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 842.331+/-0.171  $\chi^2/\text{NDF}$ : 335781.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 287.272 $\pm$ 1029.183  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 210.881 $\pm$ 913.295  $\chi^2$ /NDF: 16.1/15

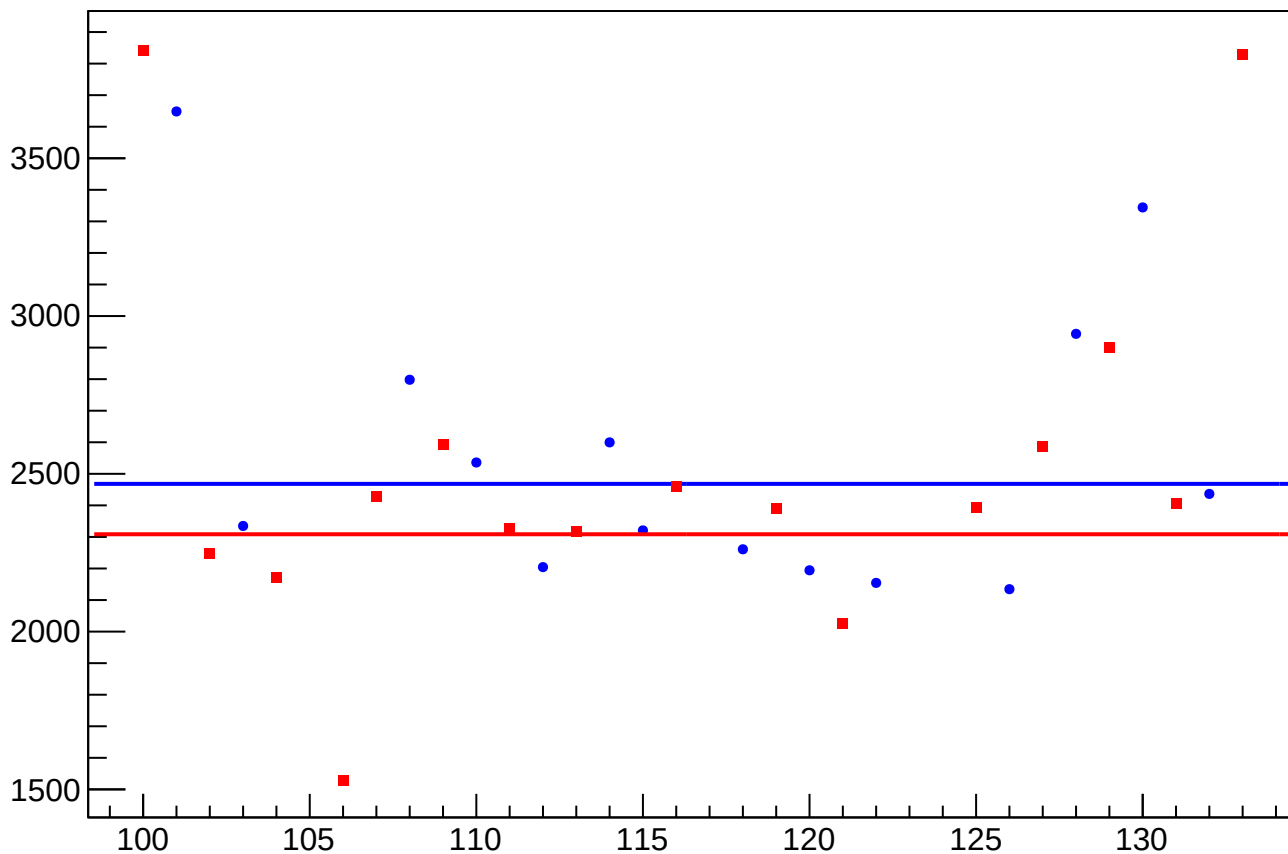
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 244.535 $\pm$ 683.111  $\chi^2$ /NDF: 28.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 2468.182 $\pm$ 0.728  $\chi^2$ /NDF: 318896.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2308.502 $\pm$ 0.646  $\chi^2$ /NDF: 418190.5/15

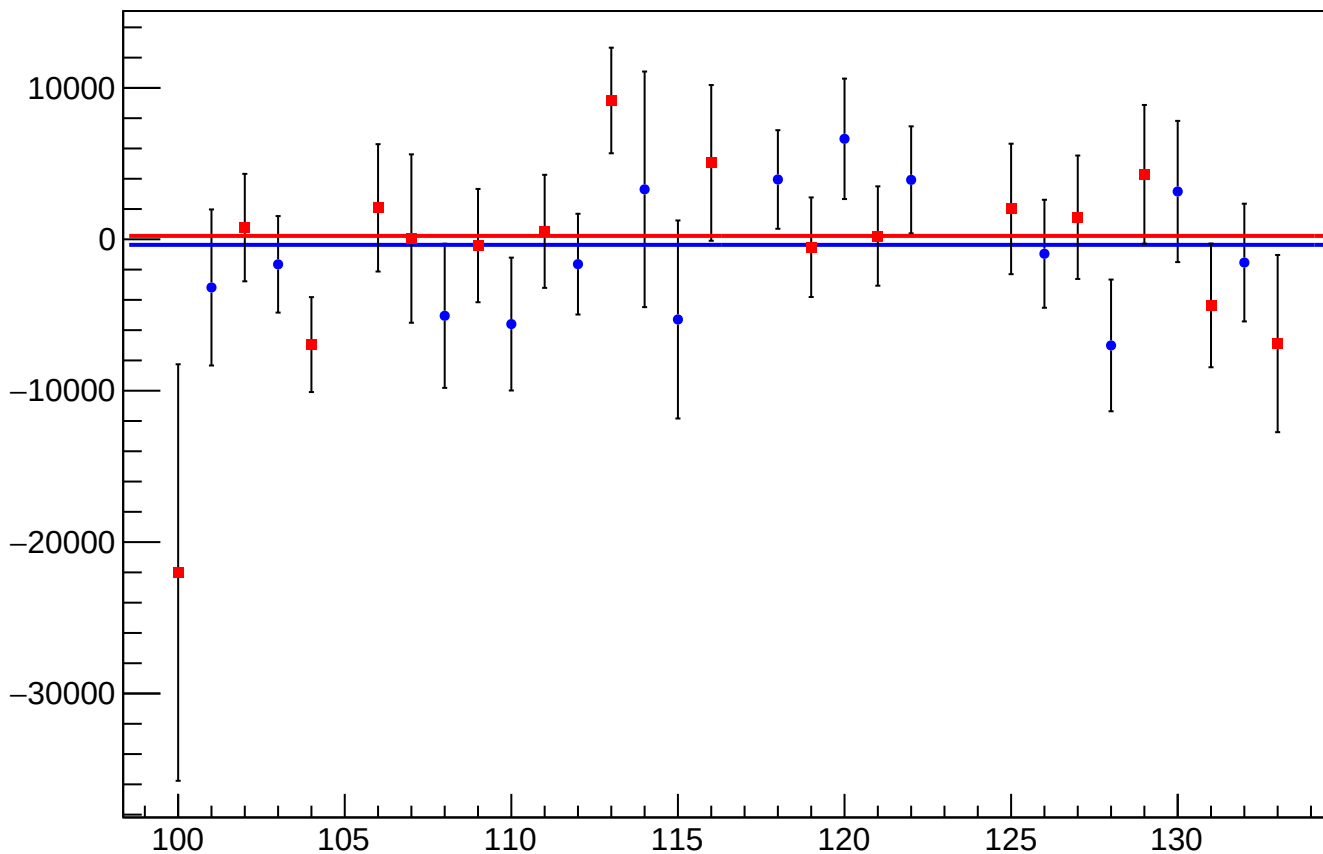
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2378.850 $\pm$ 0.483  $\chi^2$ /NDF: 764021.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_mean vs Slug



Right In:  $-366.296 \pm 1088.885$   $\chi^2/\text{NDF}$ : 13.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $225.159 \pm 1012.994$   $\chi^2/\text{NDF}$ : 19.4/15

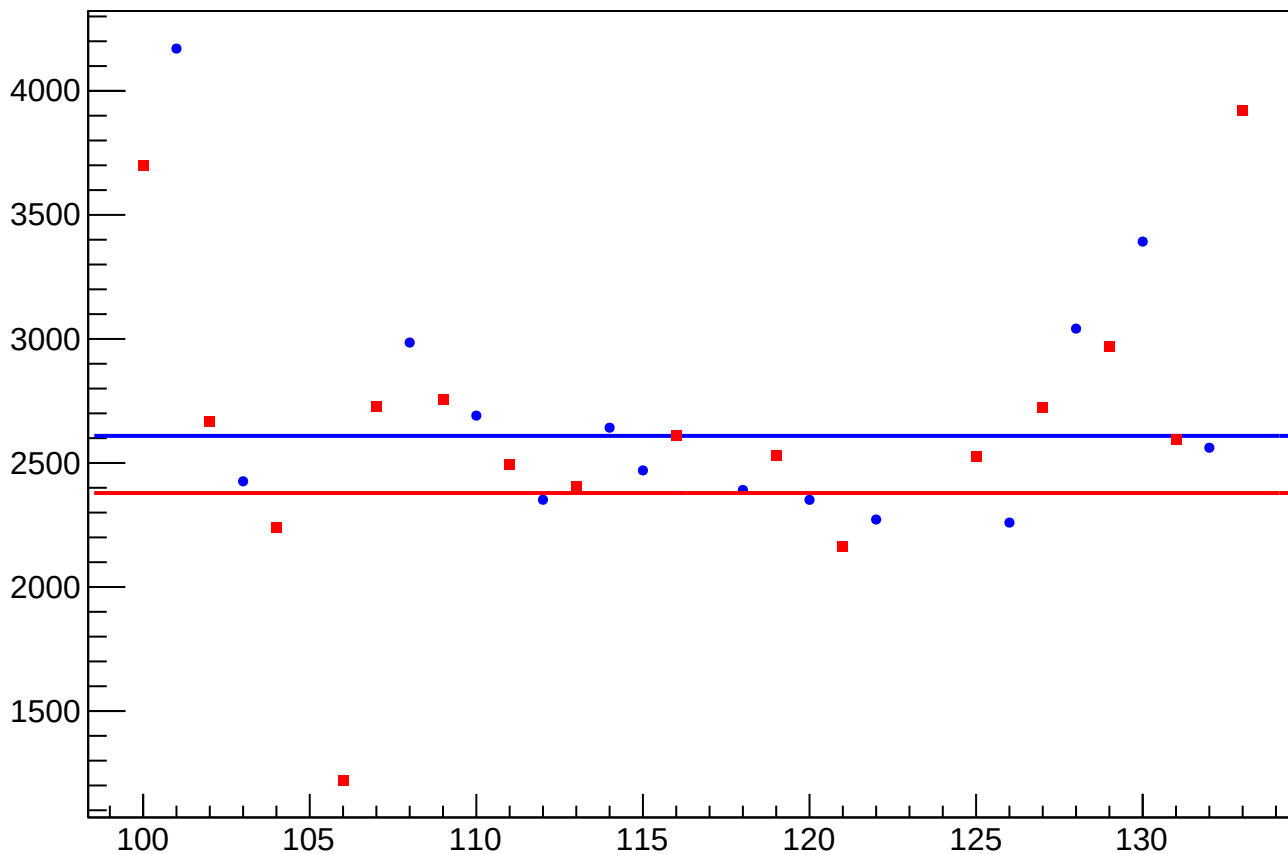
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-49.241 \pm 741.675$   $\chi^2/\text{NDF}$ : 32.7/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_rms vs Slug



Right In: 2609.306+/-0.770  $\chi^2/\text{NDF}$ : 347465.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2378.875+/-0.682  $\chi^2/\text{NDF}$ : 698908.3/15

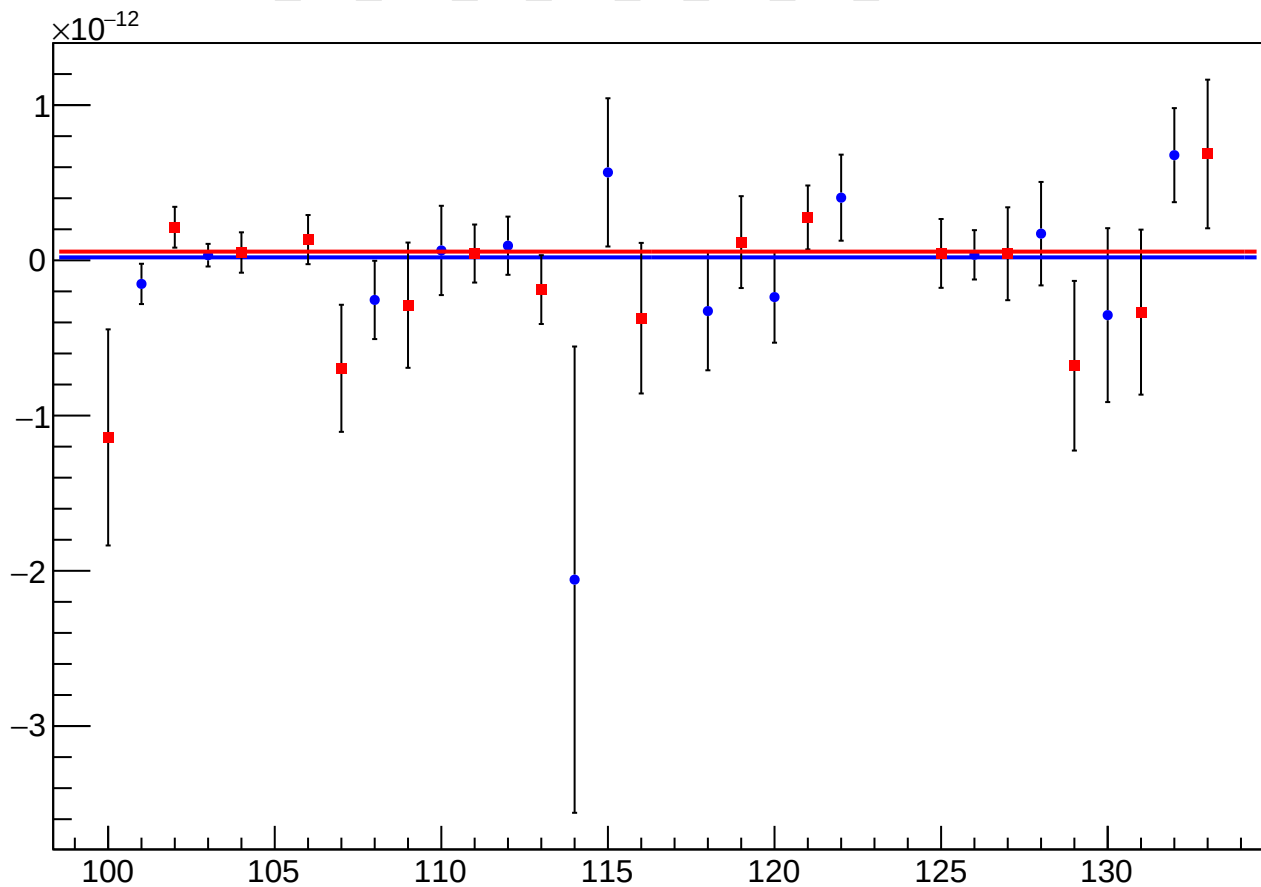
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2480.183+/-0.511  $\chi^2/\text{NDF}$ : 1096562.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.0/15

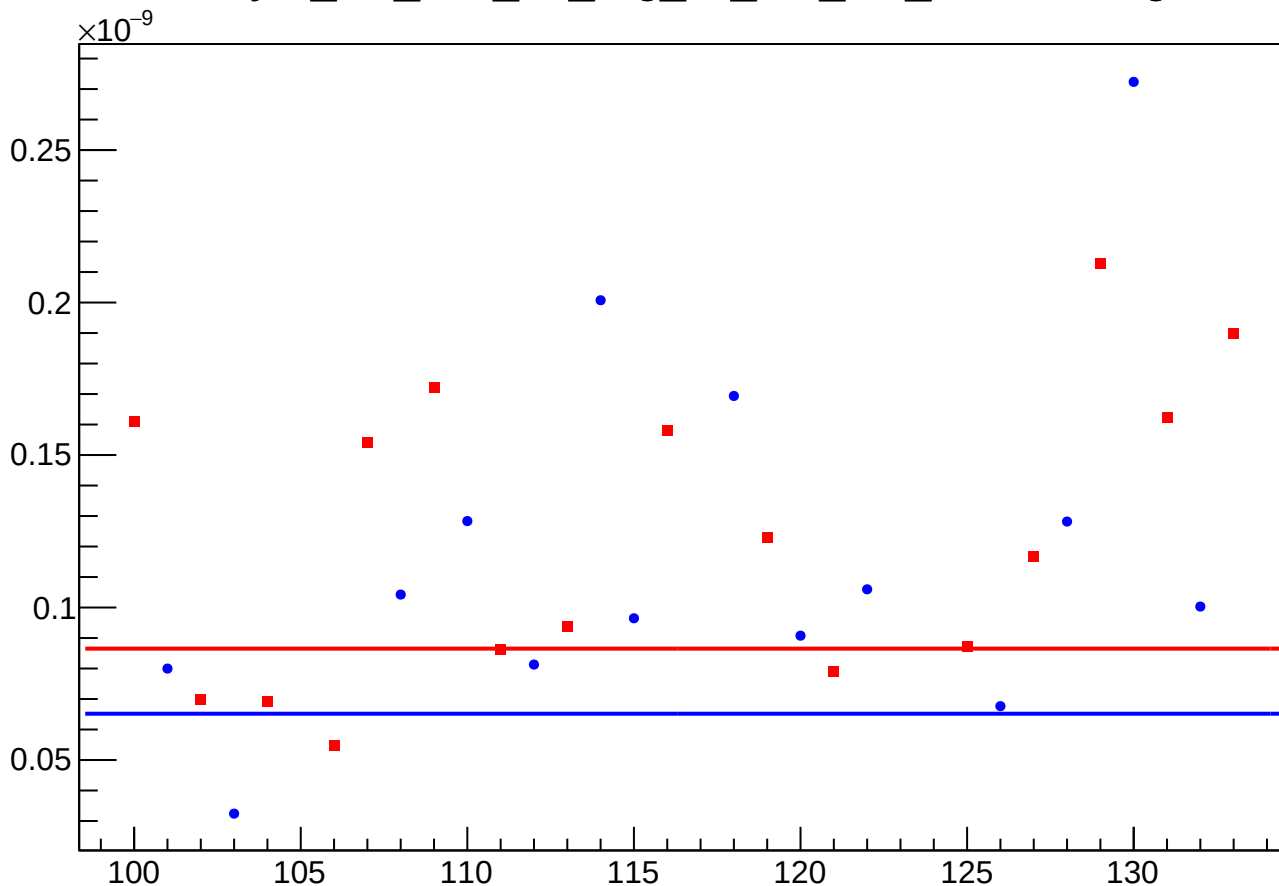
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 31.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usl\_atl2\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1194298.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 655298.2/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

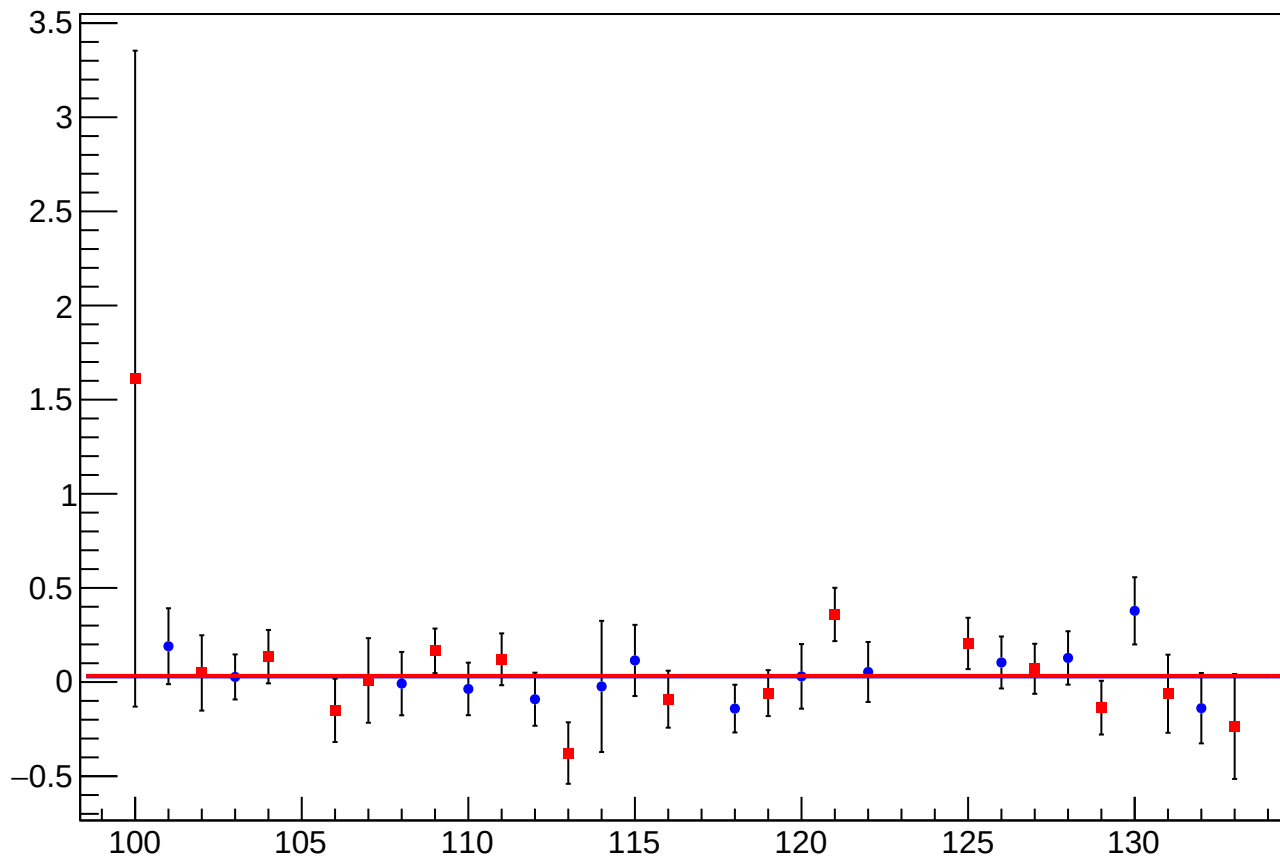
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2006860.3/29

- 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: 0.030+/-0.042  $\chi^2/\text{NDF}$ : 9.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.033+/-0.039  $\chi^2/\text{NDF}$ : 21.3/15

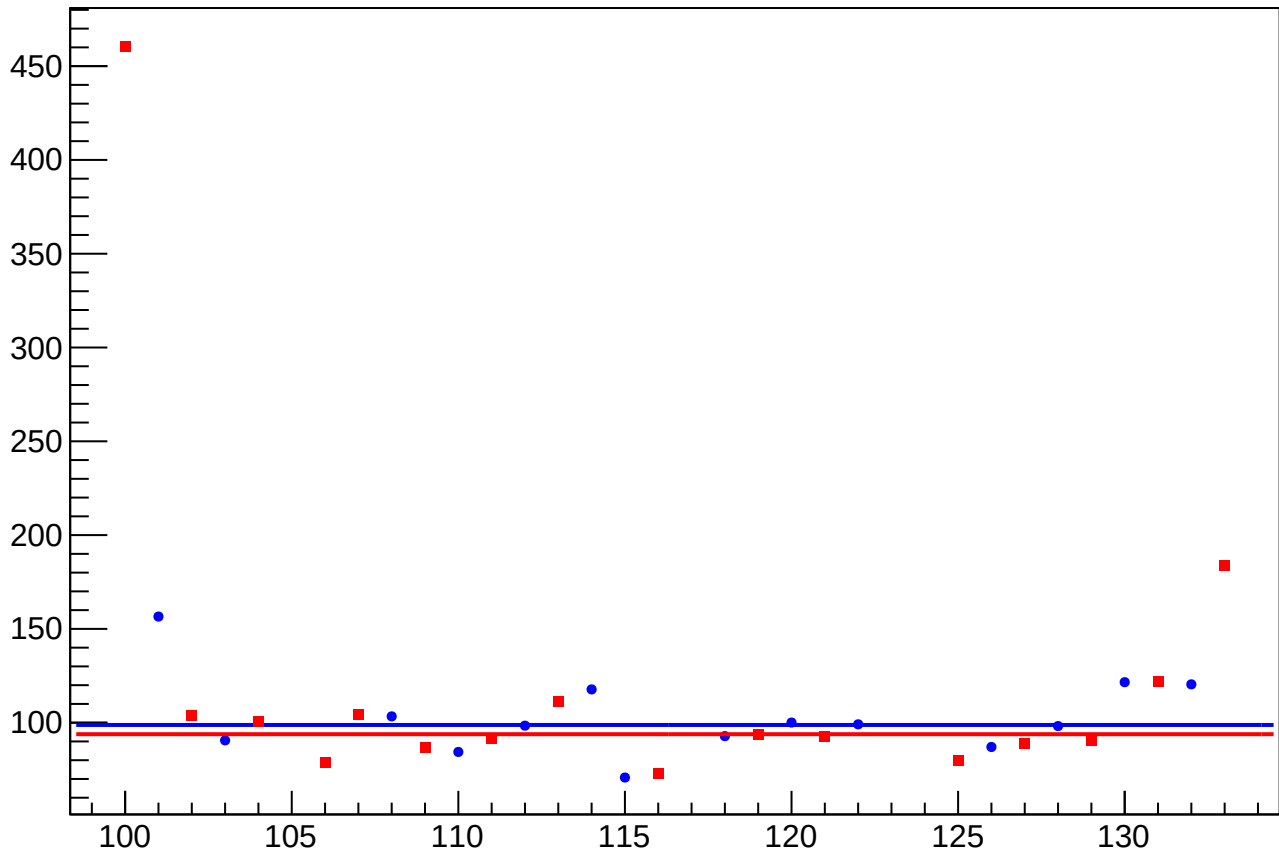
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.031+/-0.029  $\chi^2/\text{NDF}$ : 30.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_atl2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 98.790+/-0.030  $\chi^2/\text{NDF}$ : 324968.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 93.866+/-0.028  $\chi^2/\text{NDF}$ : 456171.5/15

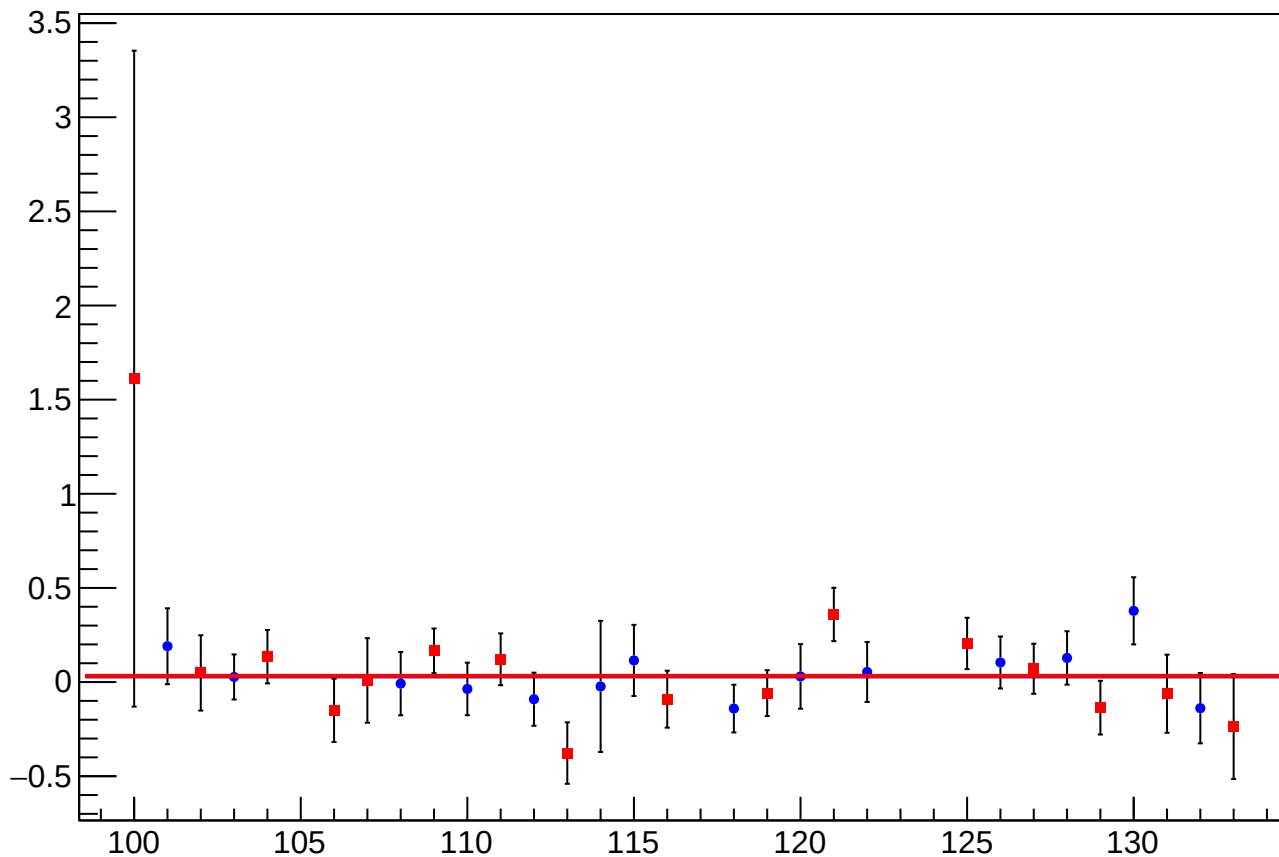
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 96.160+/-0.020  $\chi^2/\text{NDF}$ : 795780.1/29

- 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: 0.030 $\pm$ 0.042  $\chi^2$ /NDF: 9.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.033 $\pm$ 0.039  $\chi^2$ /NDF: 21.3/15

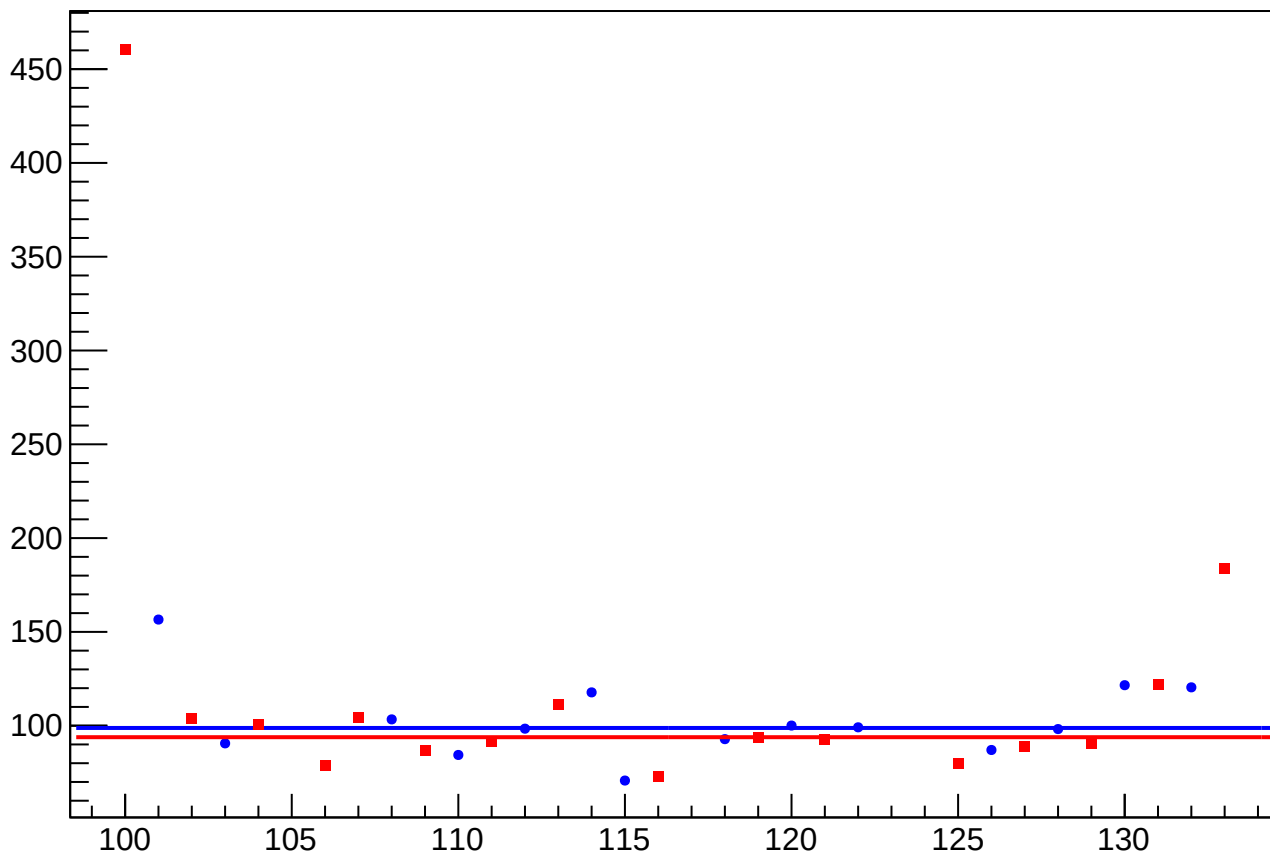
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.029  $\chi^2$ /NDF: 30.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 98.790 $\pm$ 0.030  $\chi^2$ /NDF: 324968.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 93.866 $\pm$ 0.028  $\chi^2$ /NDF: 456171.5/15

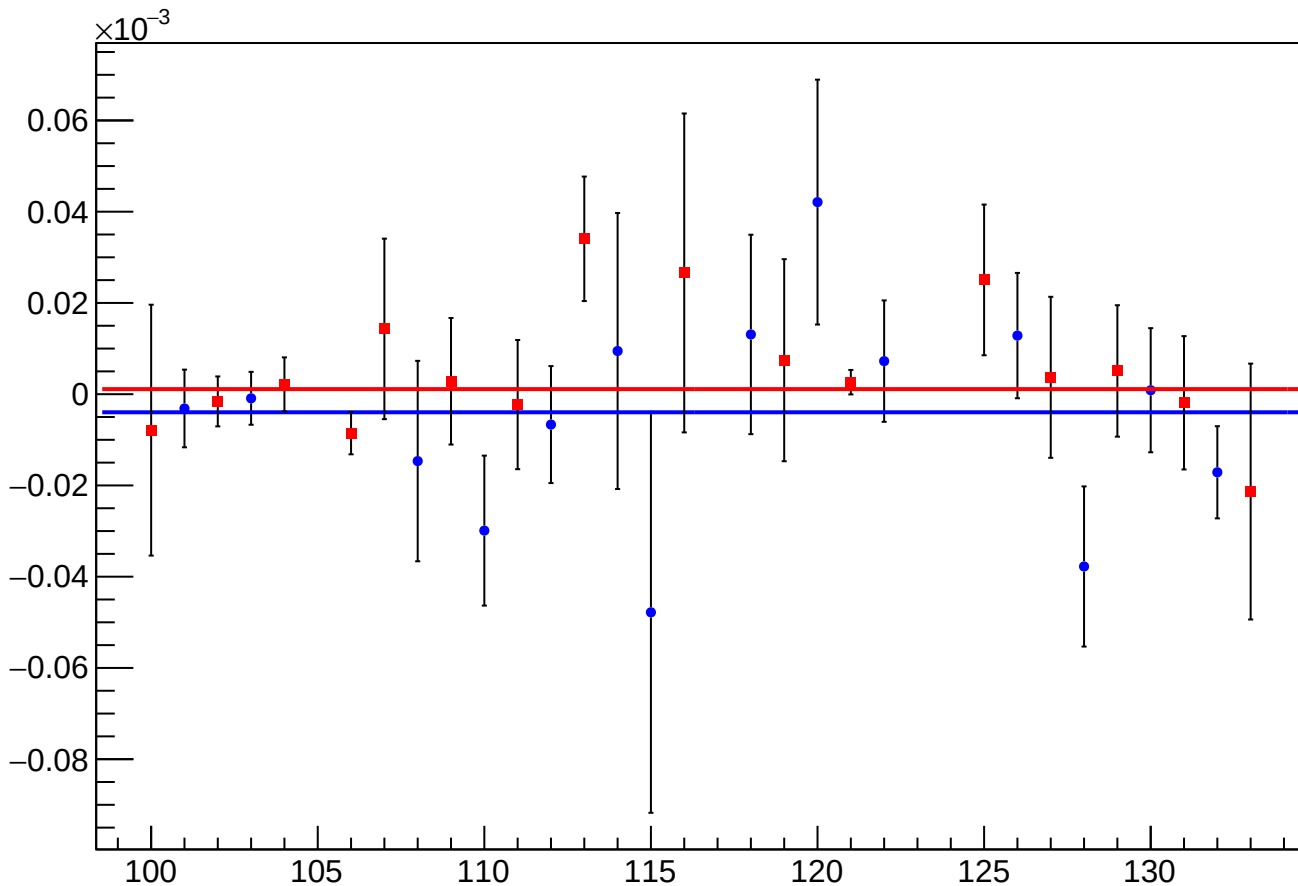
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 96.160 $\pm$ 0.020  $\chi^2$ /NDF: 795780.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000     $\chi^2/\text{NDF}$ : 15.5/13

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 14.8/15

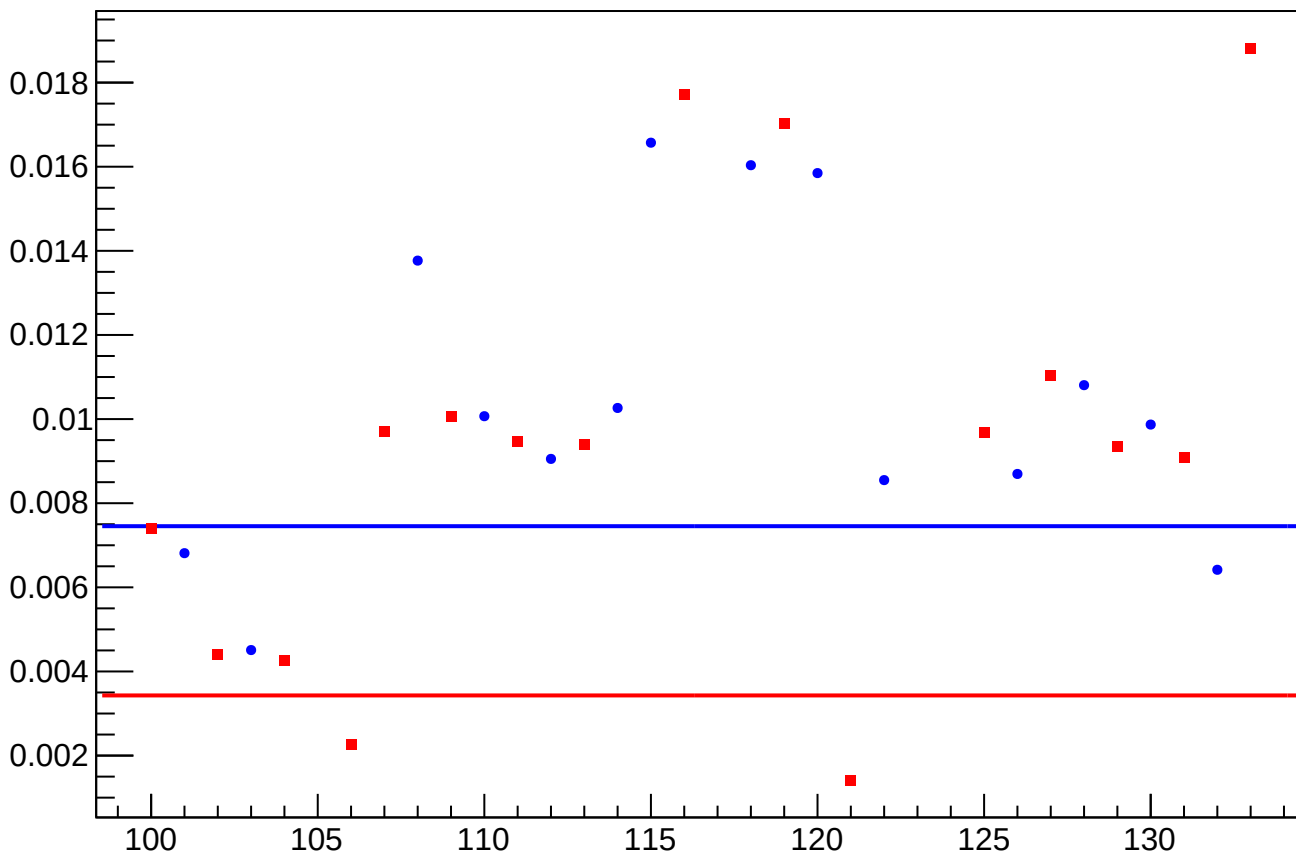
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 32.2/29

- 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  $\chi^2/\text{NDF}$ : 1568957.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 5799340.5/15

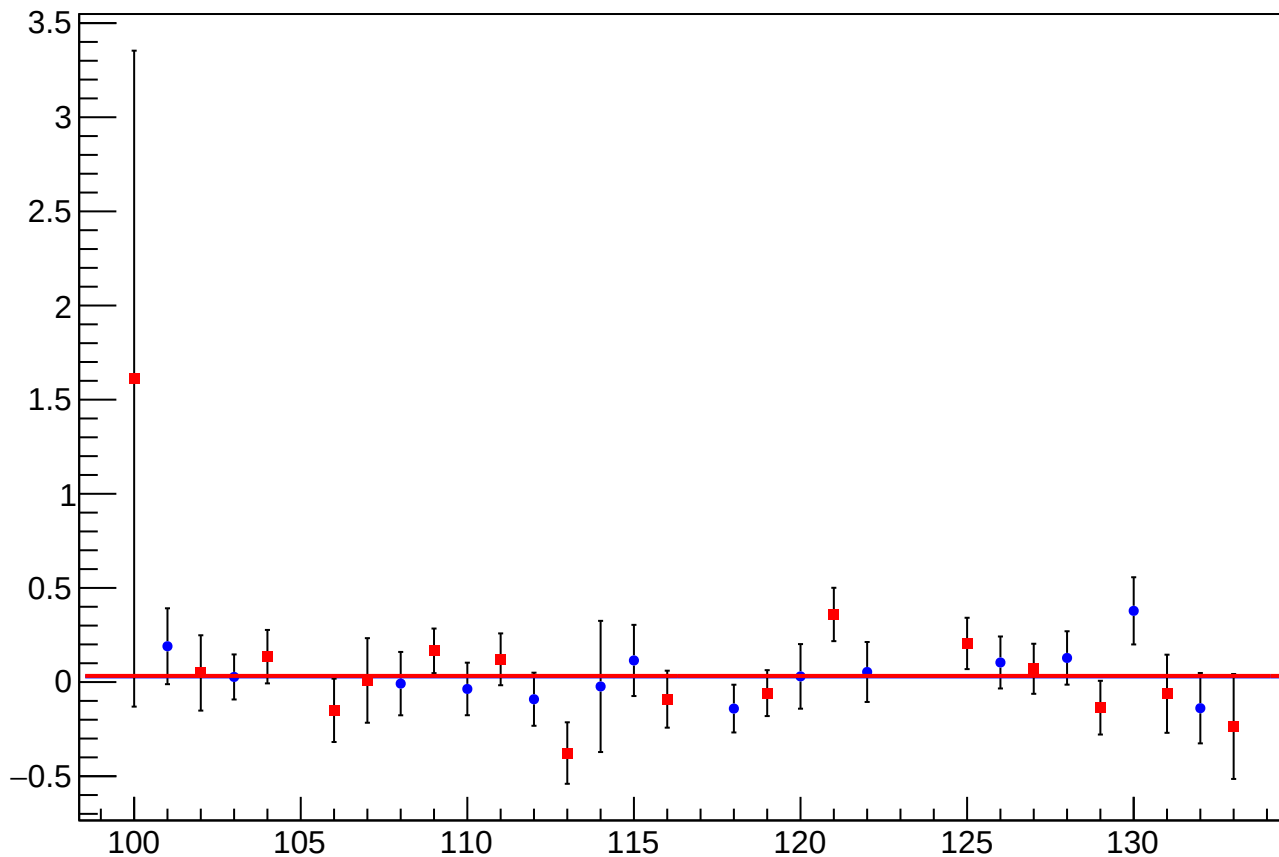
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 9584787.5/29

- 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: 0.030 $\pm$ 0.042  $\chi^2$ /NDF: 9.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.033 $\pm$ 0.039  $\chi^2$ /NDF: 21.3/15

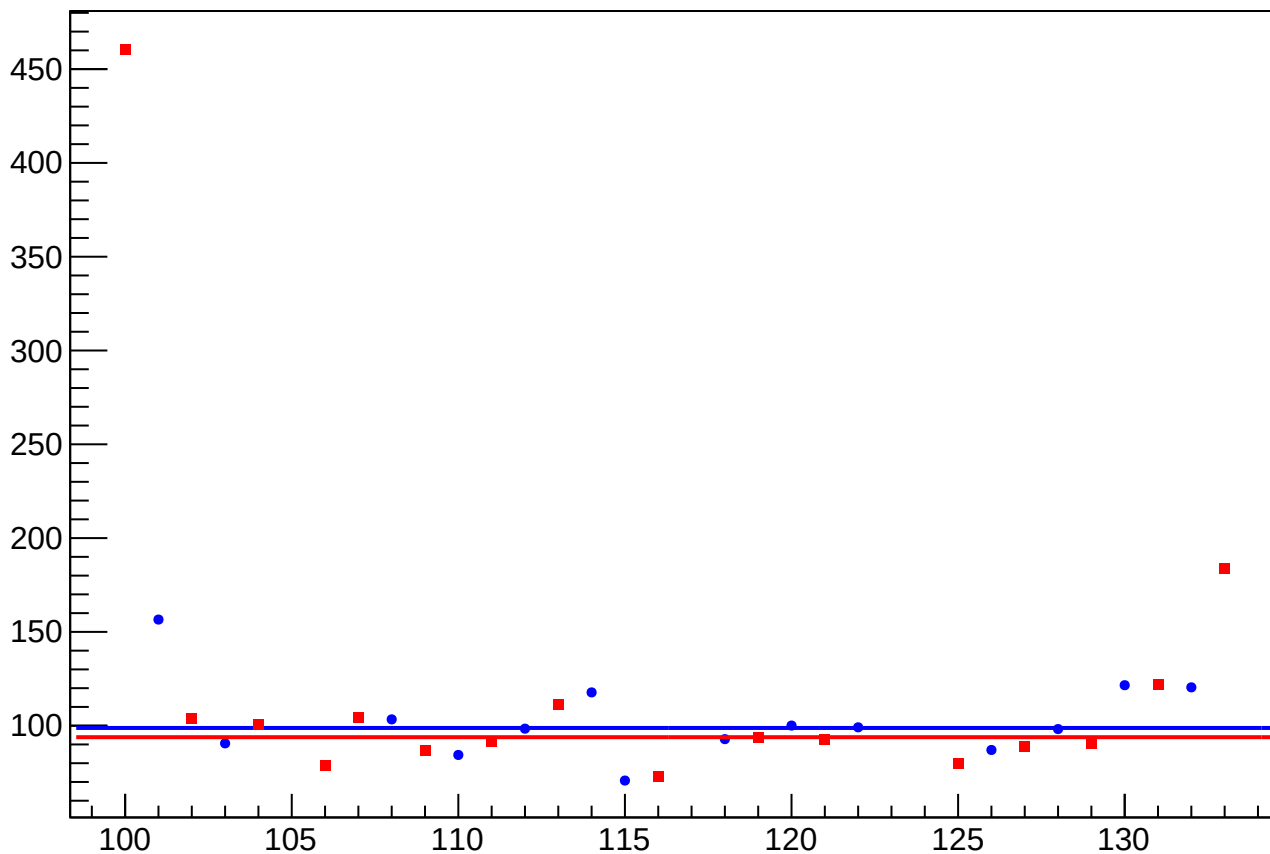
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.029  $\chi^2$ /NDF: 30.4/29

- 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: 98.790+/-0.030  $\chi^2/\text{NDF}$ : 324917.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 93.867+/-0.028  $\chi^2/\text{NDF}$ : 456098.6/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

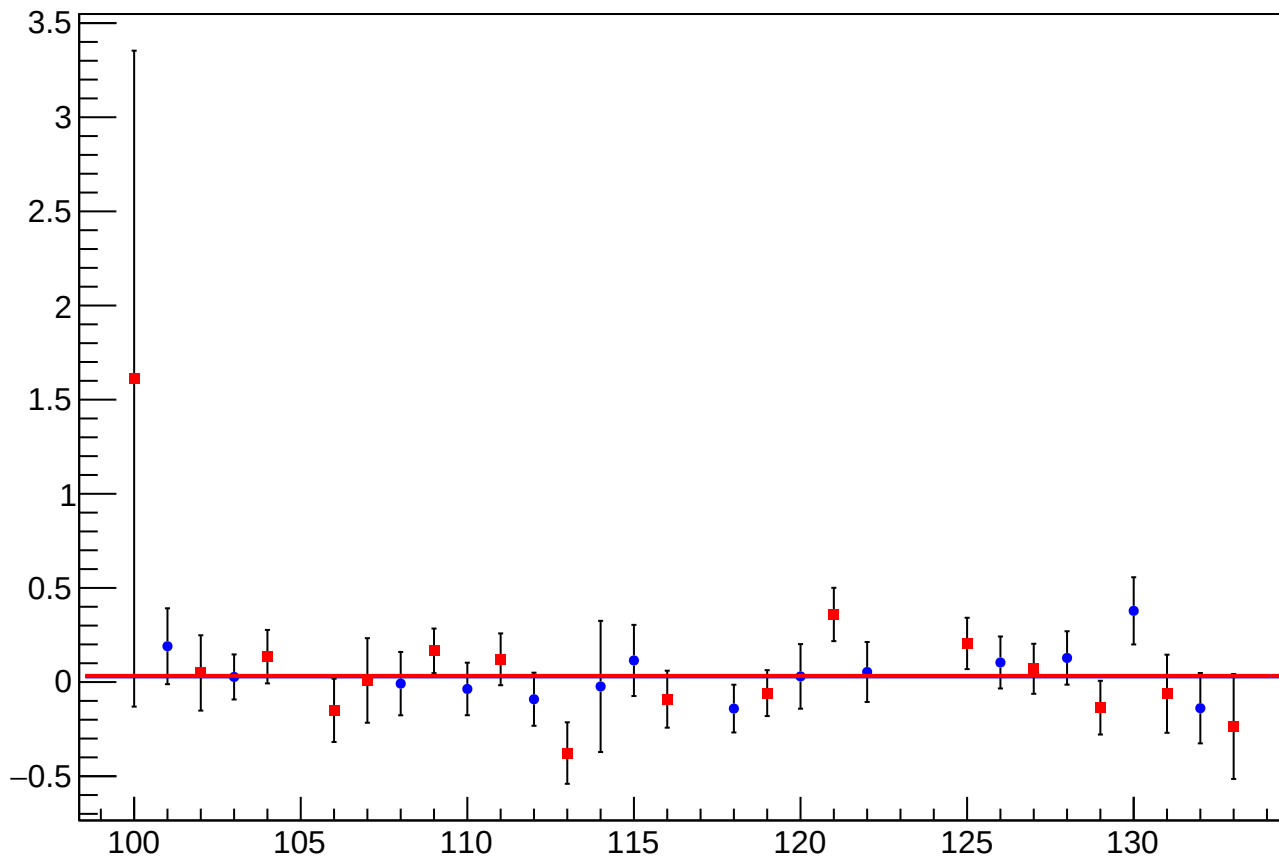
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 96.161+/-0.020  $\chi^2/\text{NDF}$ : 795653.5/29

- 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: 0.030 $\pm$ 0.042  $\chi^2$ /NDF: 9.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.033 $\pm$ 0.039  $\chi^2$ /NDF: 21.3/15

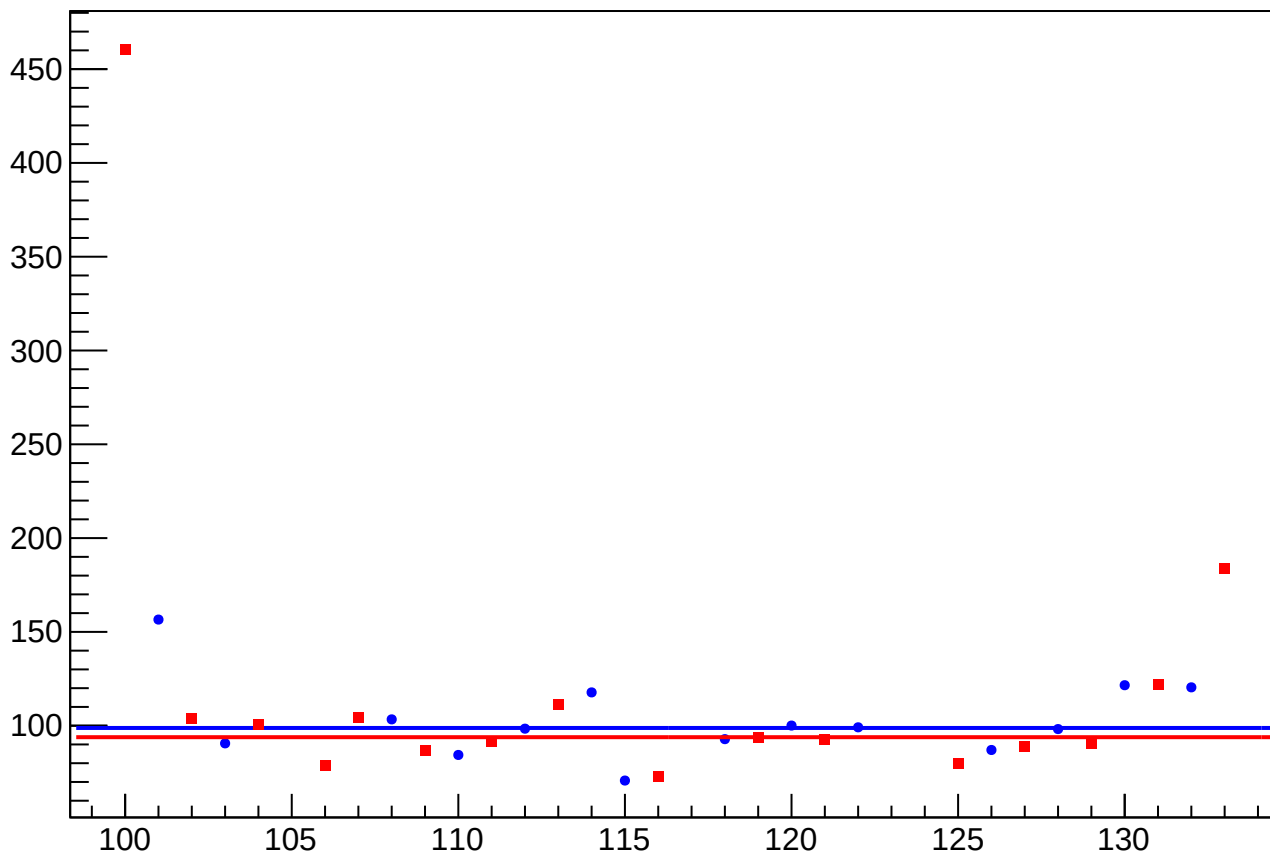
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.029  $\chi^2$ /NDF: 30.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 98.790+/-0.030  $\chi^2/\text{NDF}$ : 324917.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 93.867+/-0.028  $\chi^2/\text{NDF}$ : 456098.6/15

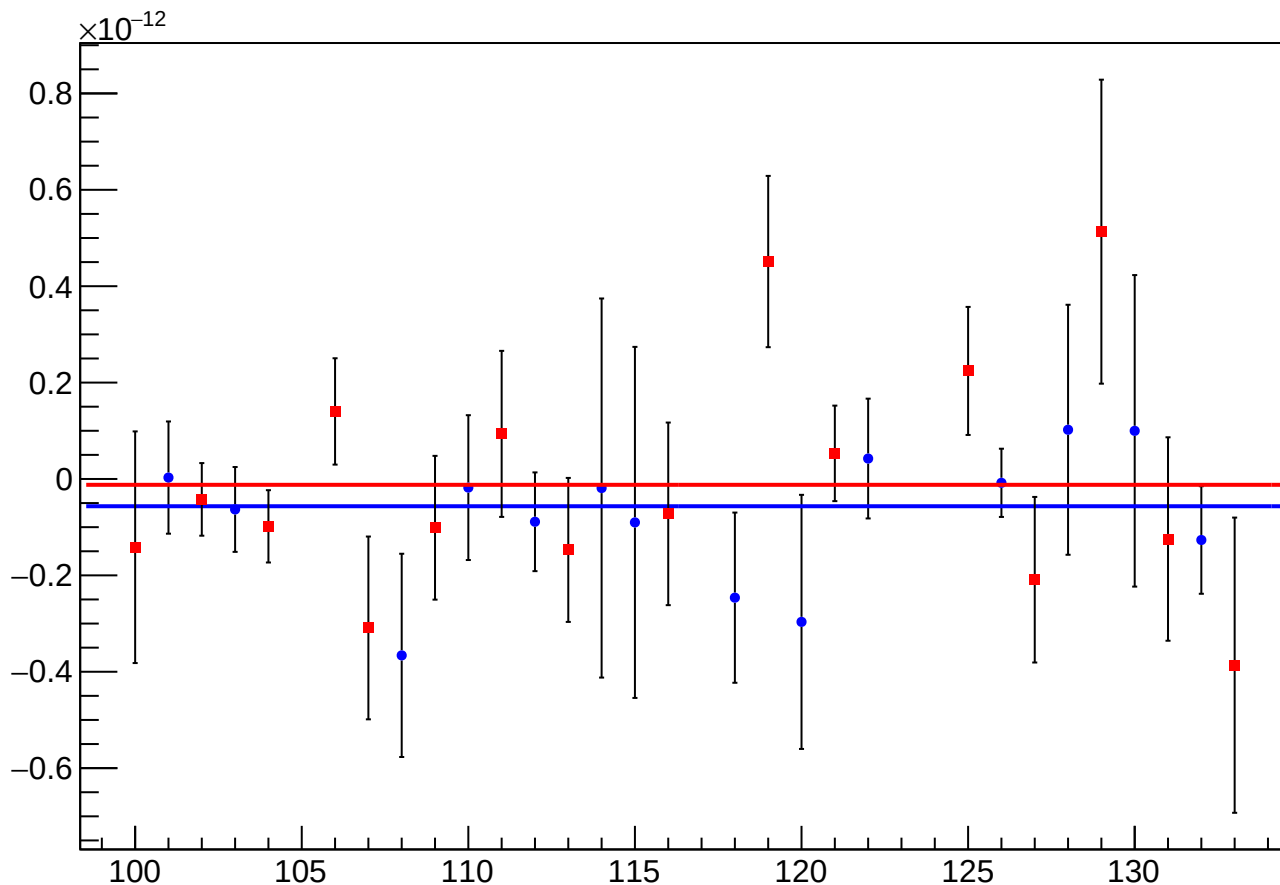
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 96.161+/-0.020  $\chi^2/\text{NDF}$ : 795653.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usl\_atl2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 24.0/15

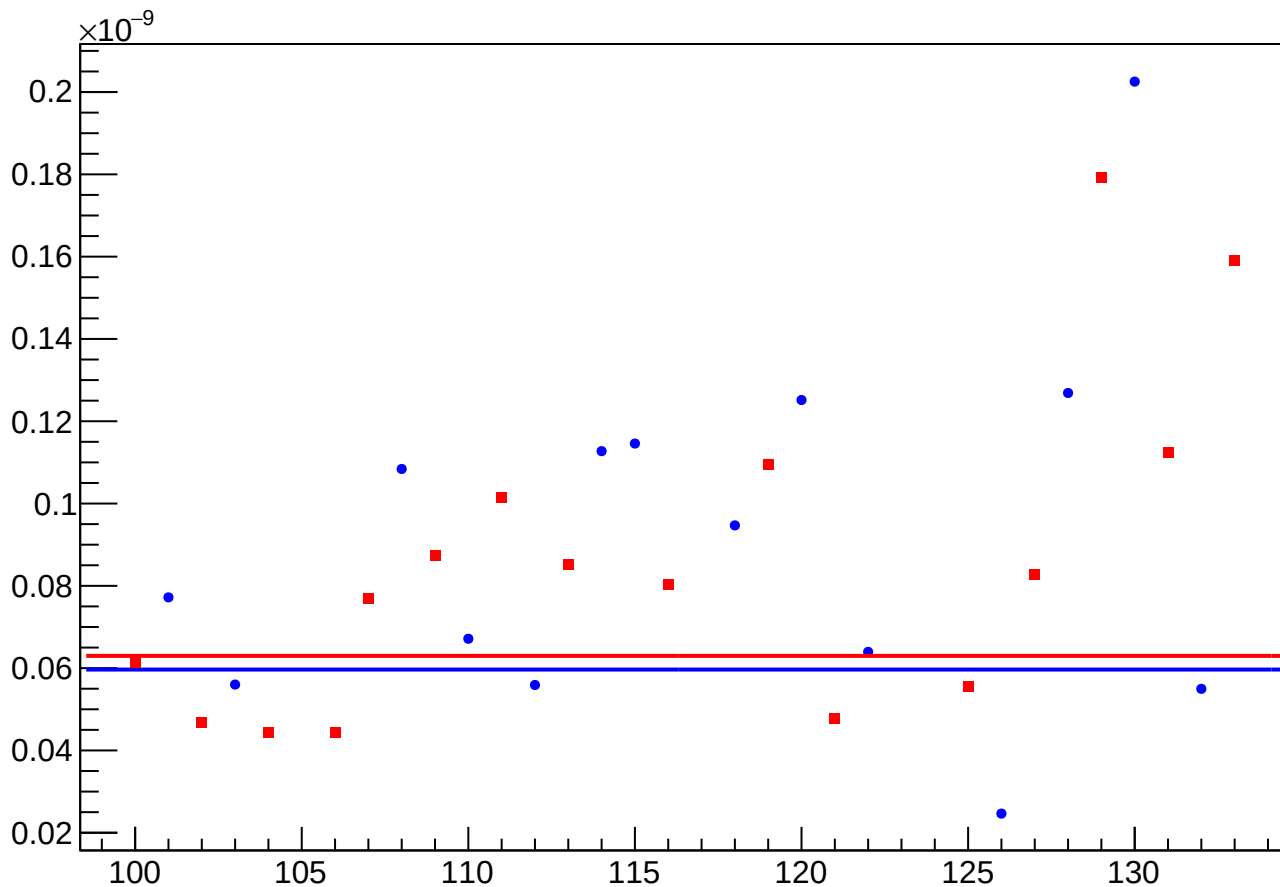
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 31.6/29

- 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  $\chi^2/\text{NDF}$ : 1467558.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1295477.0/15

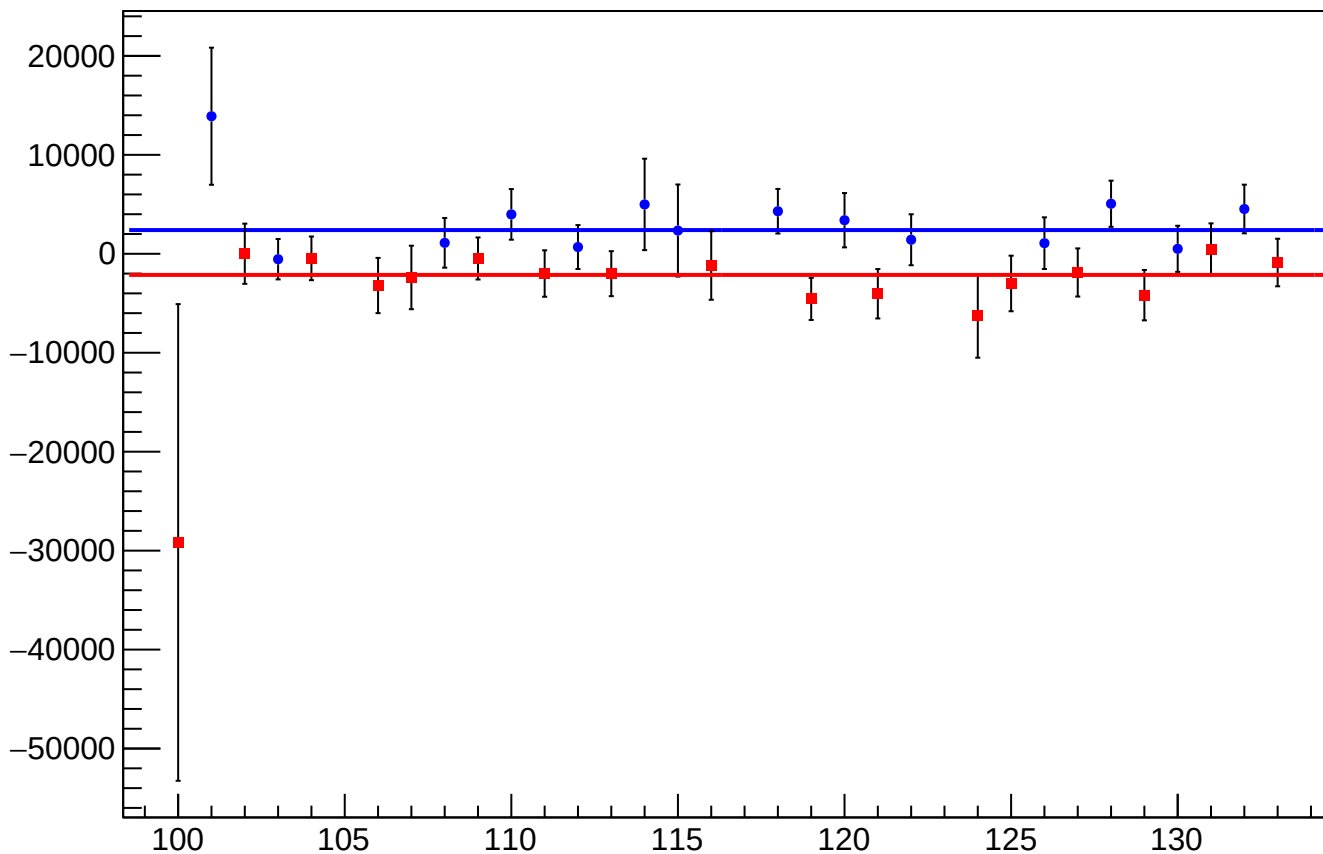
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2772342.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 2397.074+/-702.226  $\chi^2/\text{NDF}$ : 10.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2134.364+/-641.836  $\chi^2/\text{NDF}$ : 8.0/16

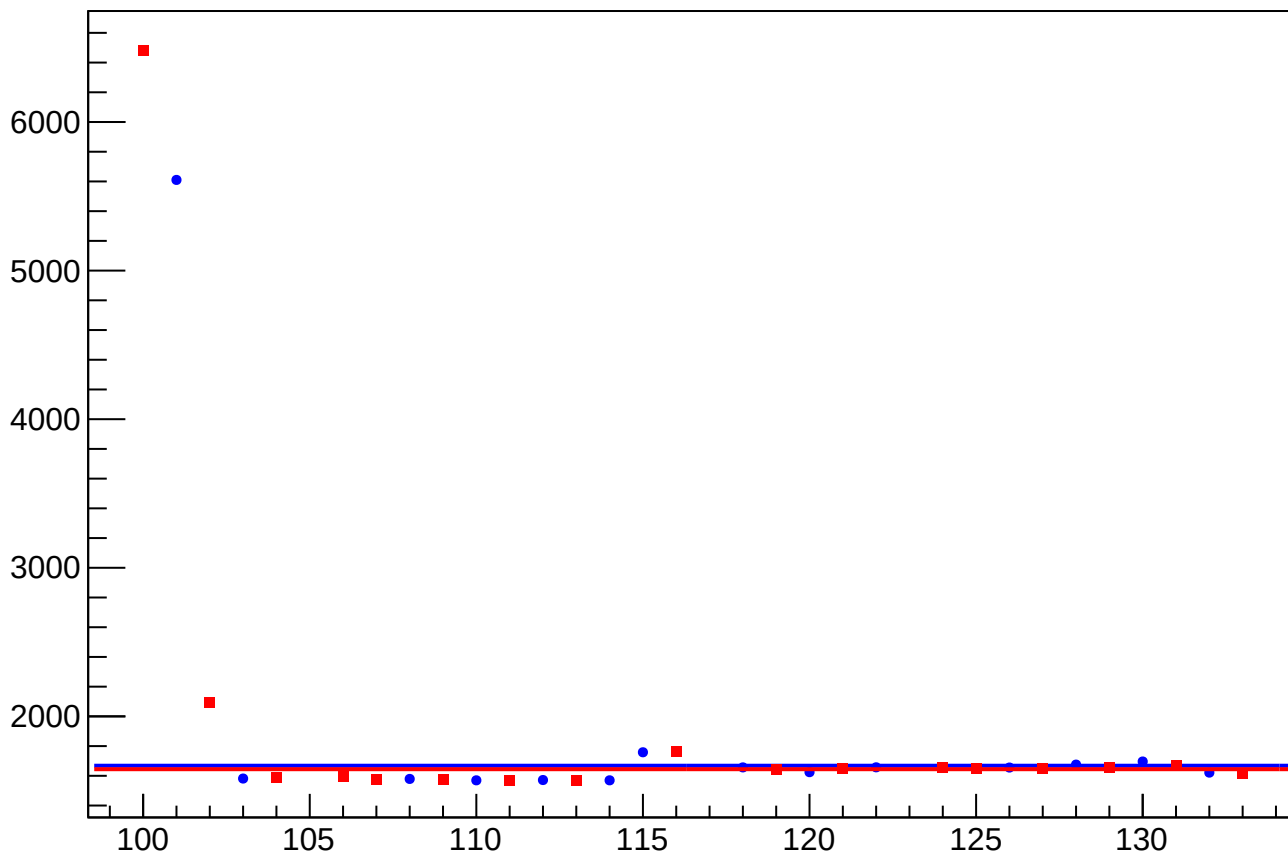
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -71.838+/-473.760  $\chi^2/\text{NDF}$ : 41.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1667.884 $\pm$ 0.497  $\chi^2$ /NDF: 663583.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1644.519 $\pm$ 0.454  $\chi^2$ /NDF: 136810.5/16

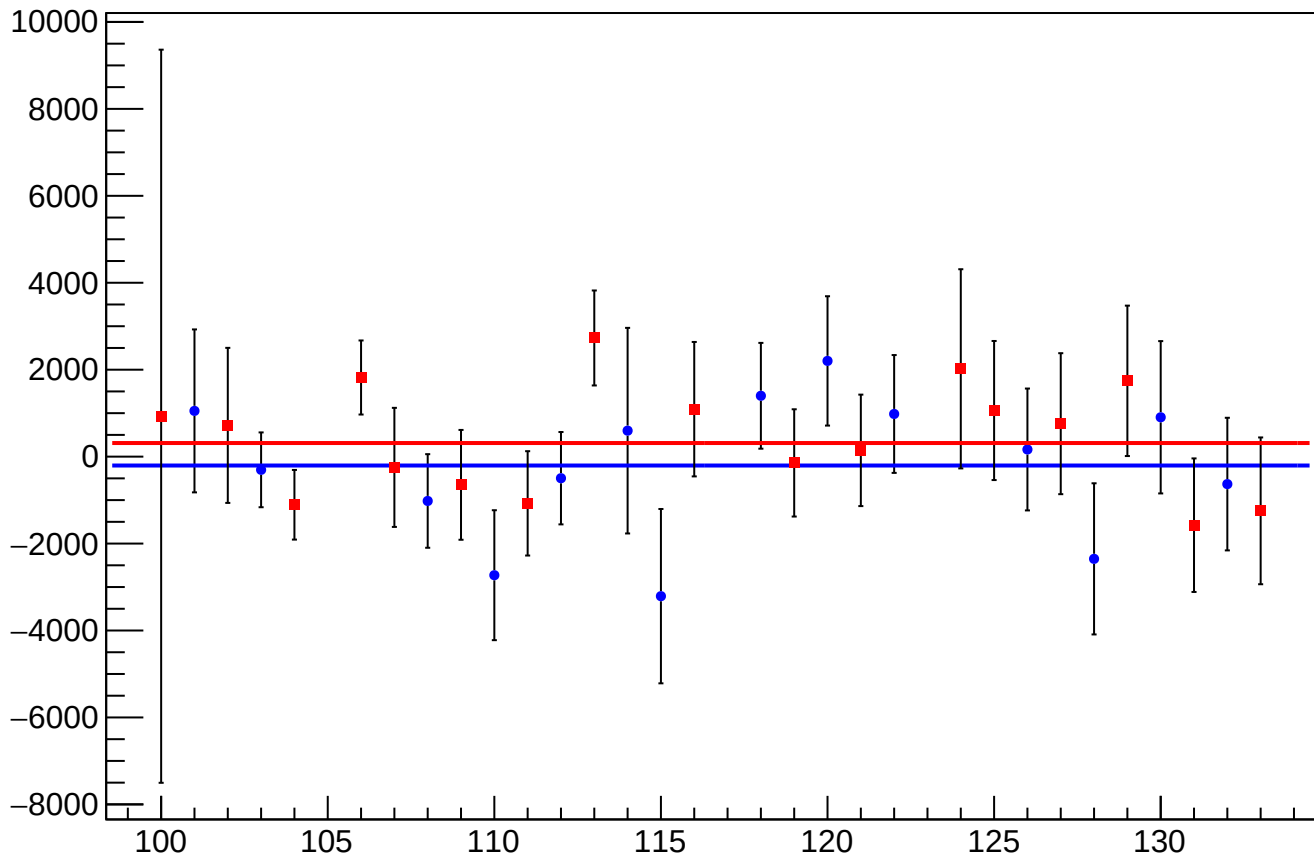
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1655.154 $\pm$ 0.335  $\chi^2$ /NDF: 801600.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_reg\_correction\_mean vs Slug



Right In: -204.434+/-364.534  $\chi^2/\text{NDF}$ : 13.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 312.933+/-320.910  $\chi^2/\text{NDF}$ : 17.6/16

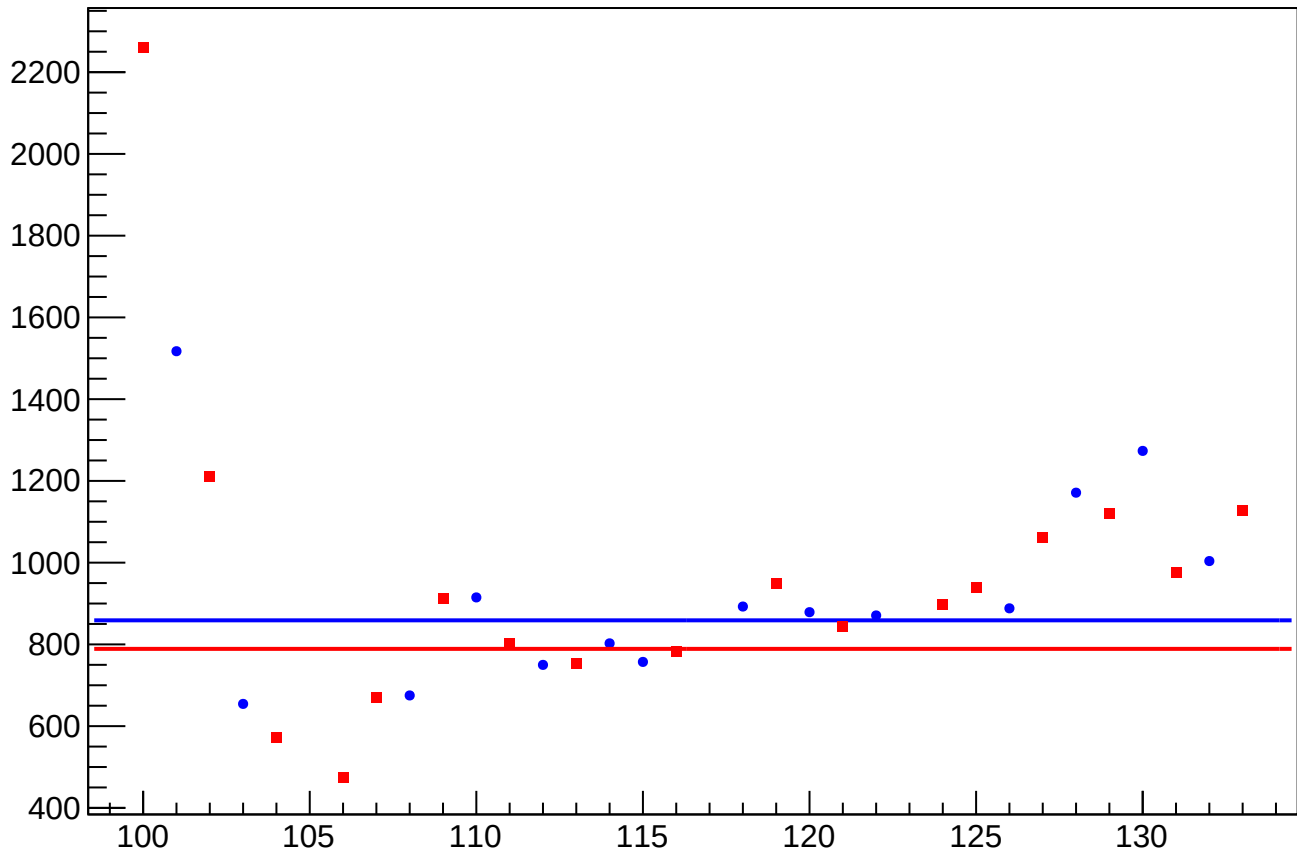
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 87.043+/-240.872  $\chi^2/\text{NDF}$ : 32.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_avg\_reg\_correction\_rms vs Slug



Right In: 858.870+/-0.258  $\chi^2/\text{NDF}$ : 645606.6/13

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: 789.057+/-0.227  $\chi^2/\text{NDF}$ : 928364.5/16

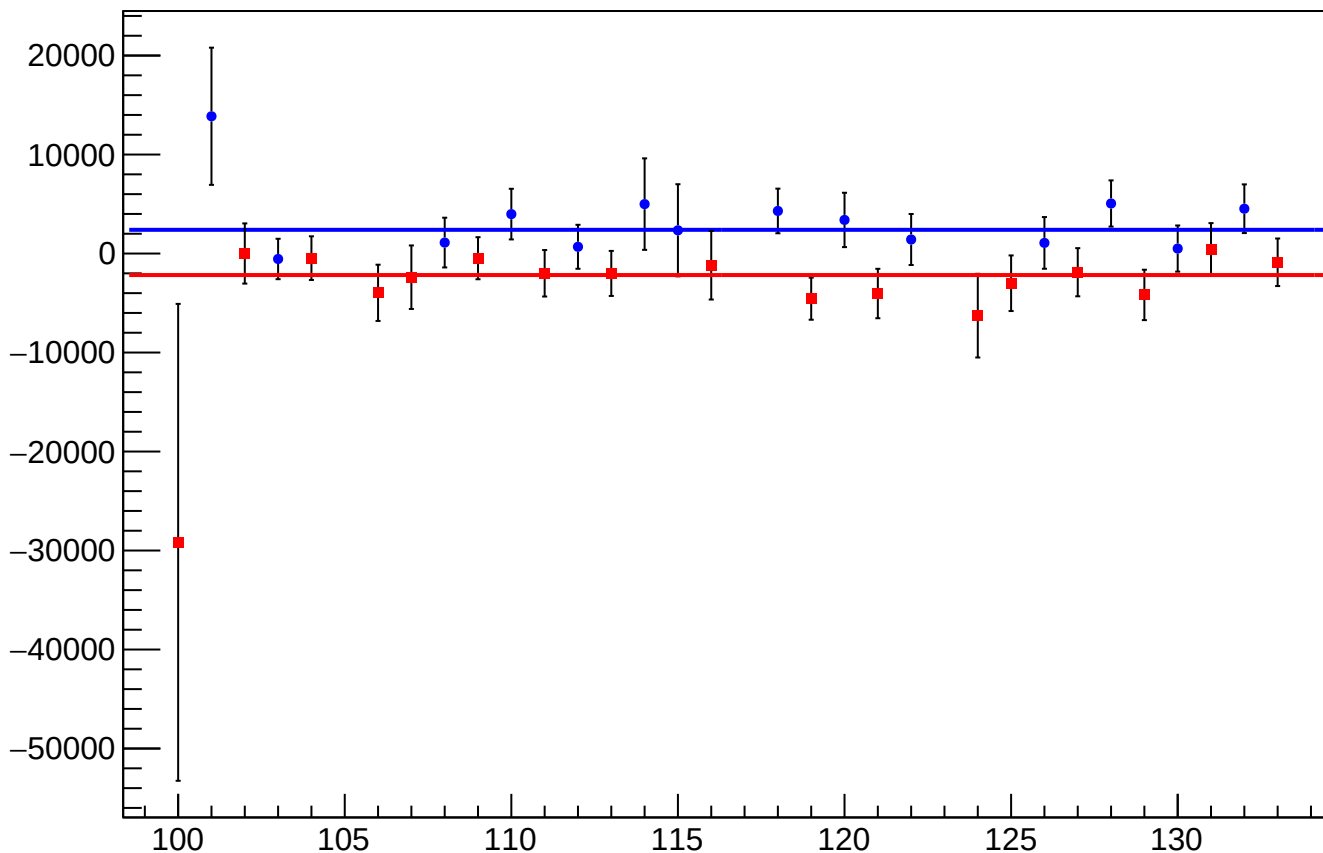
All: 819.538+/-0.170  $\chi^2/\text{NDF}$ : 1615298.0/30

- 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\_atr1\_avg\_mean vs Slug



Right In: 2396.415+/-702.226  $\chi^2/\text{NDF}$ : 10.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2171.899+/-642.421  $\chi^2/\text{NDF}$ : 8.3/16

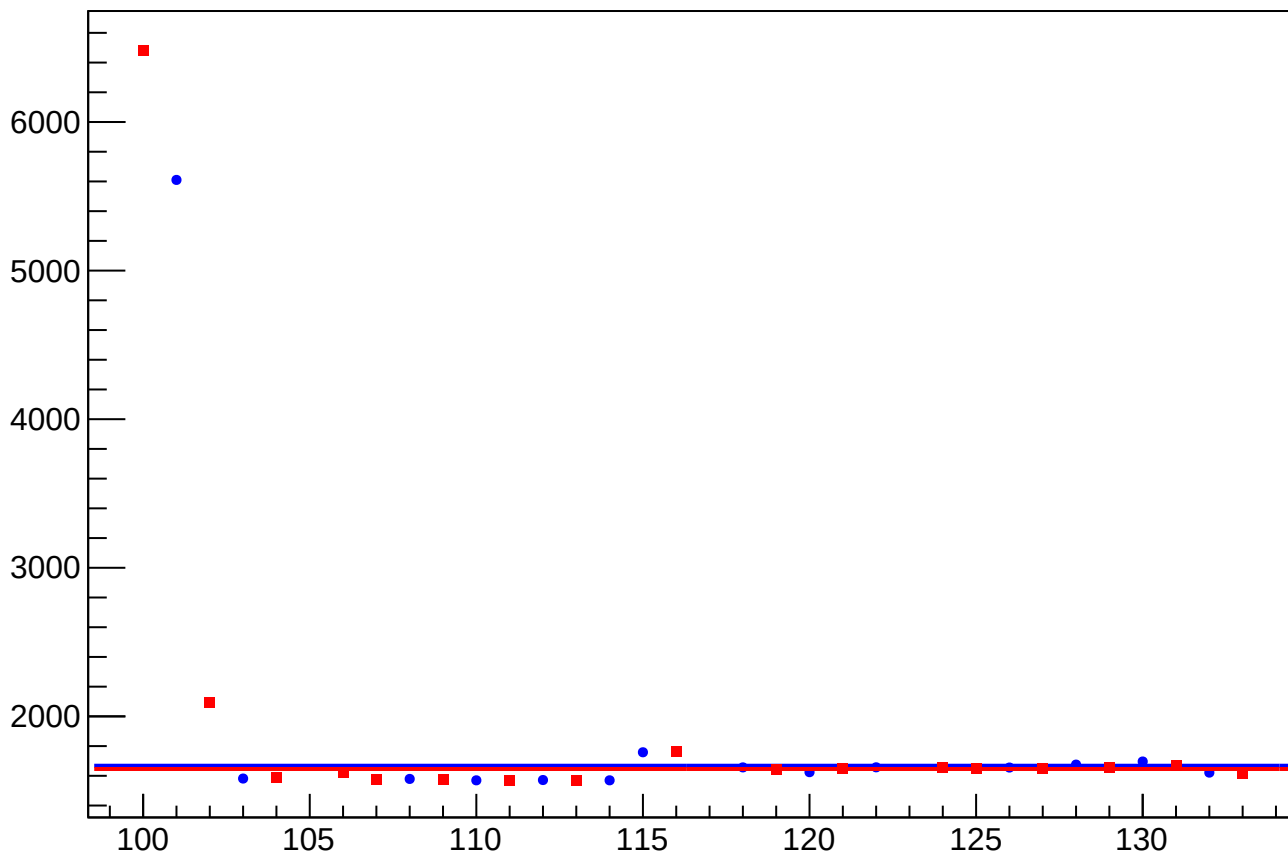
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -90.525+/-473.995  $\chi^2/\text{NDF}$ : 41.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1667.884 $\pm$ 0.497  $\chi^2$ /NDF: 663583.1/13

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

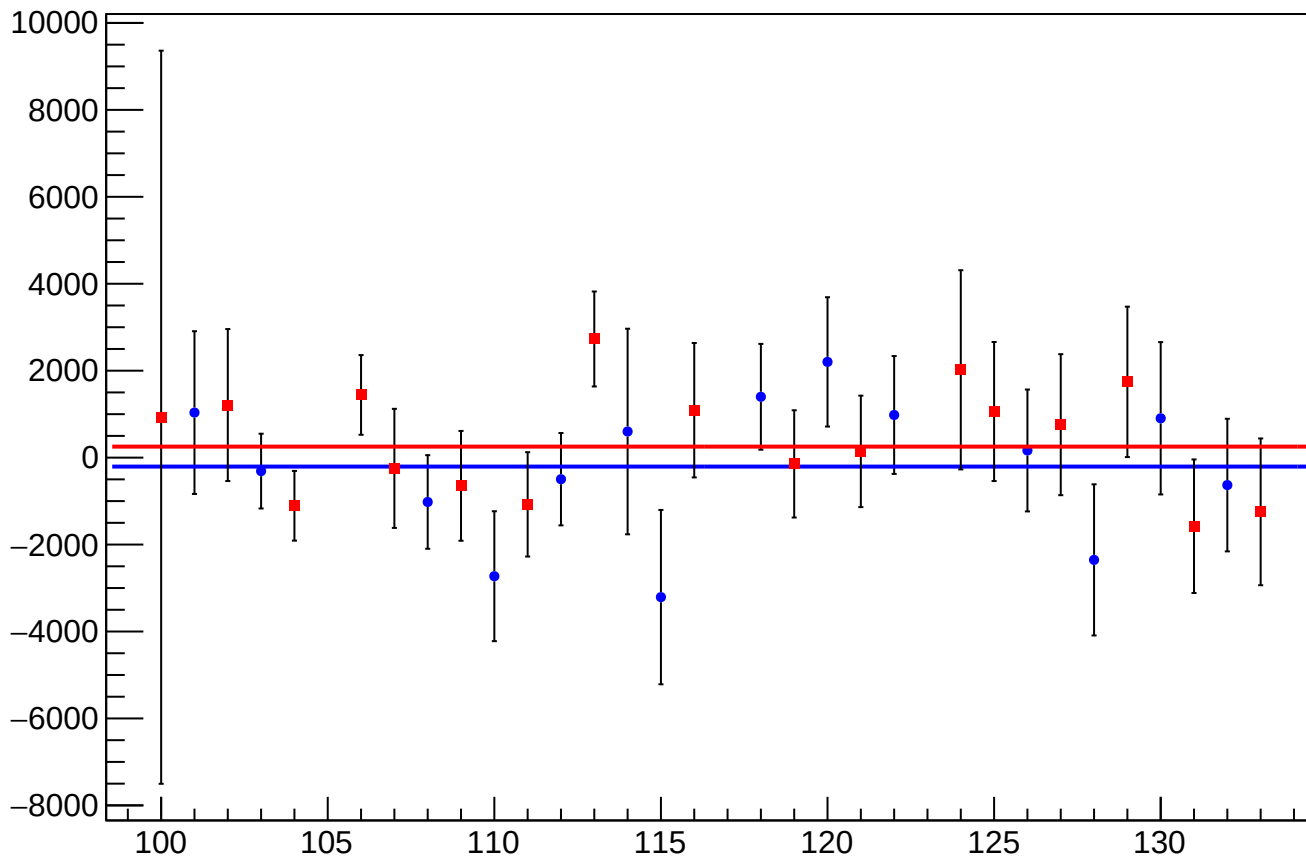
Right Out: 1645.967 $\pm$ 0.454  $\chi^2$ /NDF: 136279.4/16

All: 1655.952 $\pm$ 0.335  $\chi^2$ /NDF: 800923.2/30

- 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\_cor\_correction\_mean vs Slug



Right In: -205.988+/-364.480  $\chi^2/\text{NDF}$ : 13.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 253.623+/-323.901  $\chi^2/\text{NDF}$ : 16.2/16

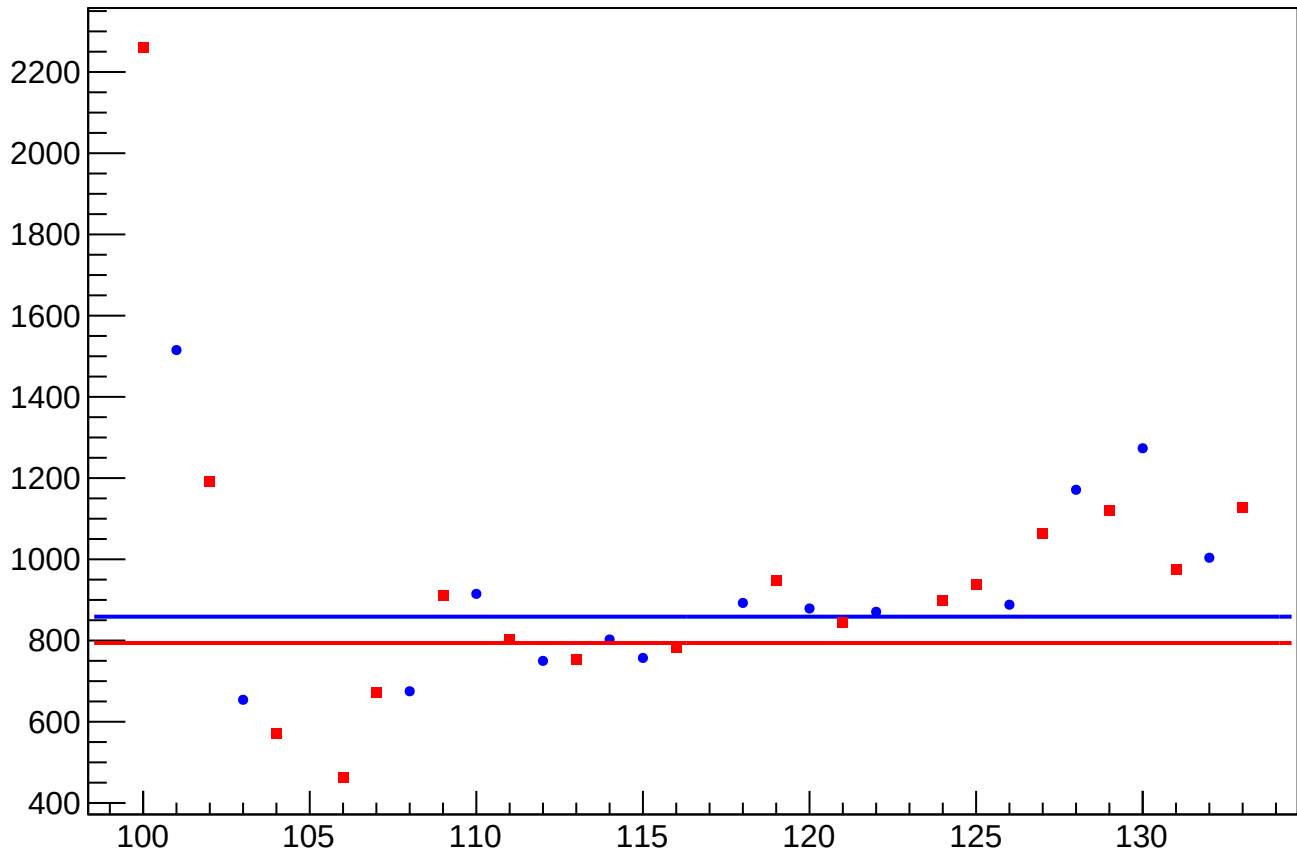
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 50.817+/-242.113  $\chi^2/\text{NDF}$ : 30.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_avg\_cor\_correction\_rms vs Slug



Right In: 858.768 $\pm$ 0.258  $\chi^2$ /NDF: 645271.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 793.946 $\pm$ 0.229  $\chi^2$ /NDF: 901371.9/16

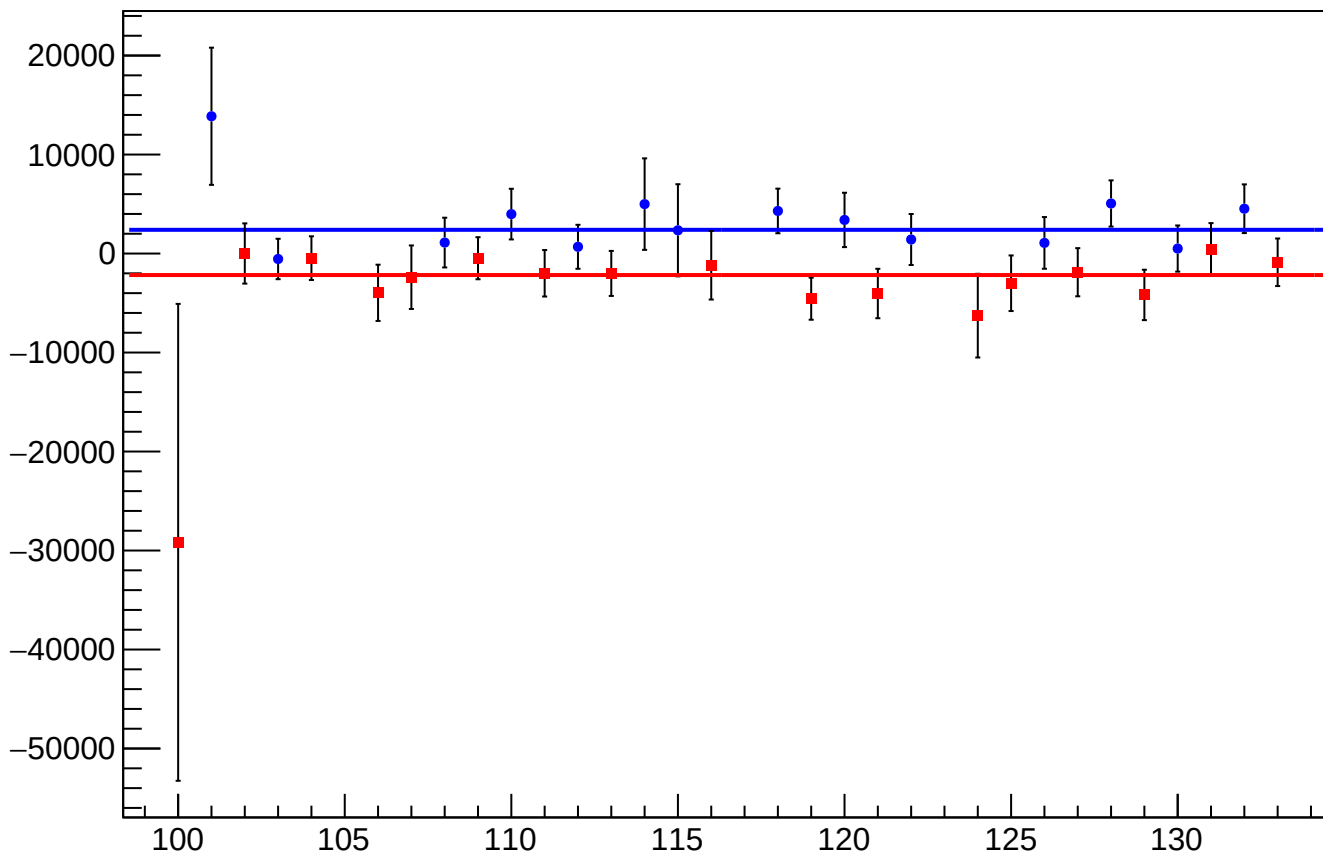
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 822.549 $\pm$ 0.171  $\chi^2$ /NDF: 1581989.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 2396.415 $\pm$ 702.226  $\chi^2$ /NDF: 10.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2171.899 $\pm$ 642.421  $\chi^2$ /NDF: 8.3/16

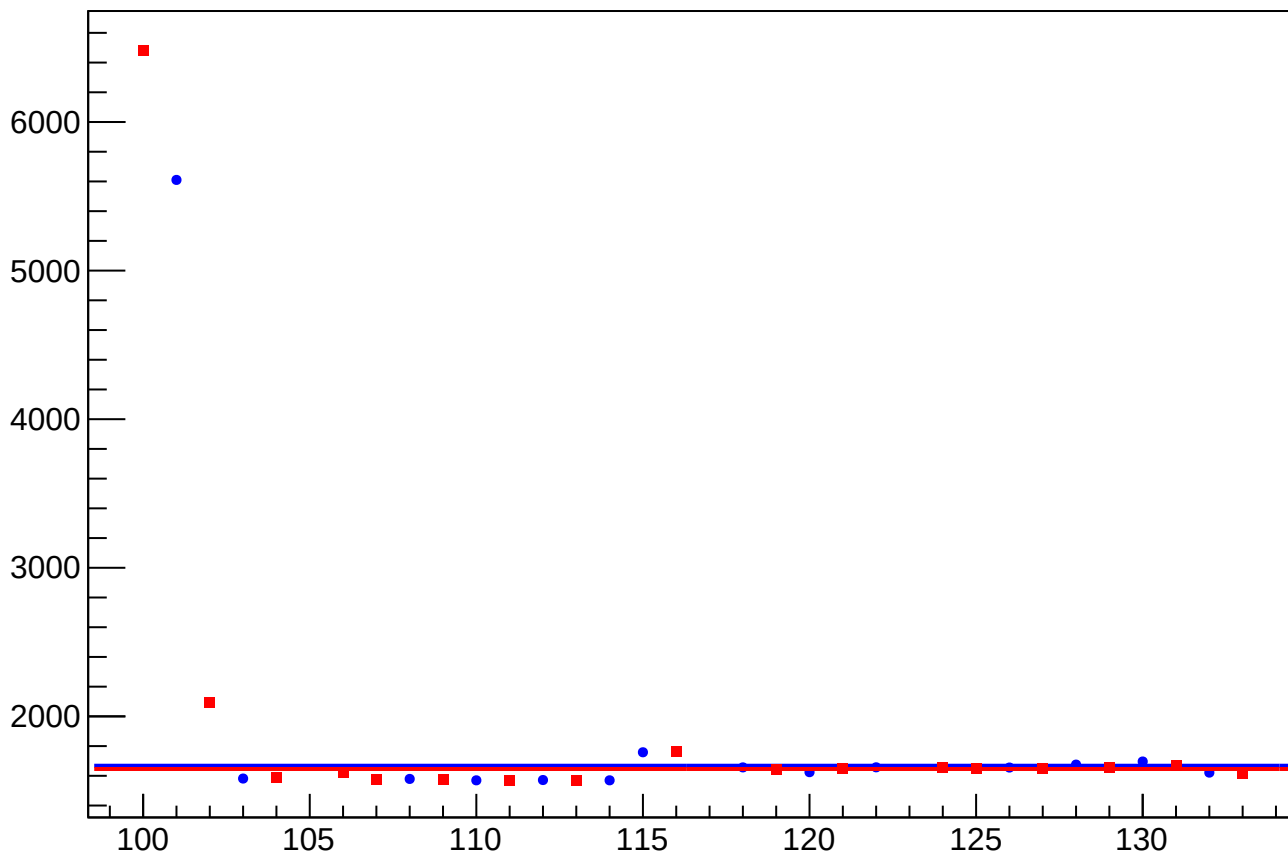
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -90.525 $\pm$ 473.995  $\chi^2$ /NDF: 41.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1667.884 $\pm$ 0.497  $\chi^2$ /NDF: 663583.1/13

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

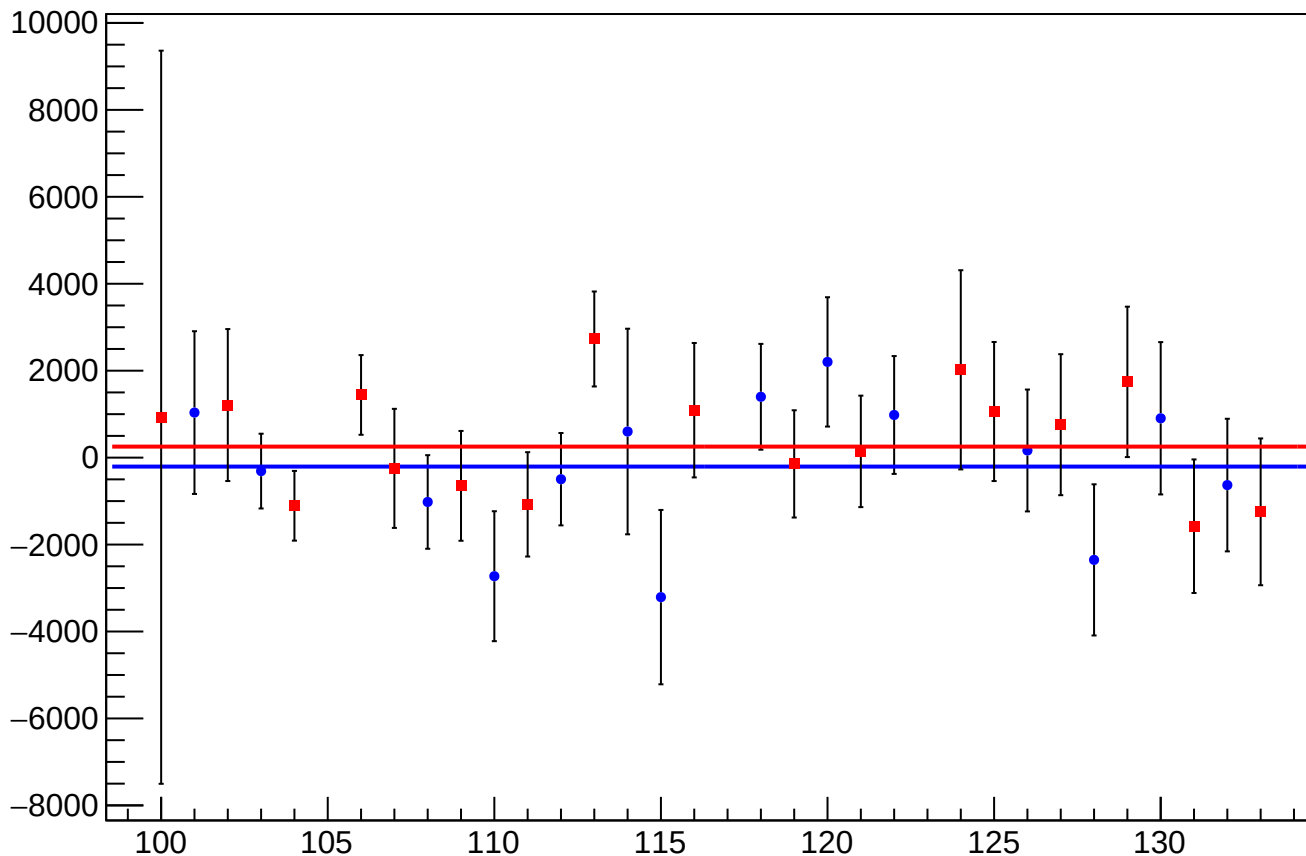
Right Out: 1645.967 $\pm$ 0.454  $\chi^2$ /NDF: 136279.4/16

All: 1655.952 $\pm$ 0.335  $\chi^2$ /NDF: 800923.2/30

- 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\_eigen\_cor\_correction\_mean vs Slug



Right In: -205.988+/-364.480  $\chi^2/\text{NDF}$ : 13.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 253.623+/-323.901  $\chi^2/\text{NDF}$ : 16.2/16

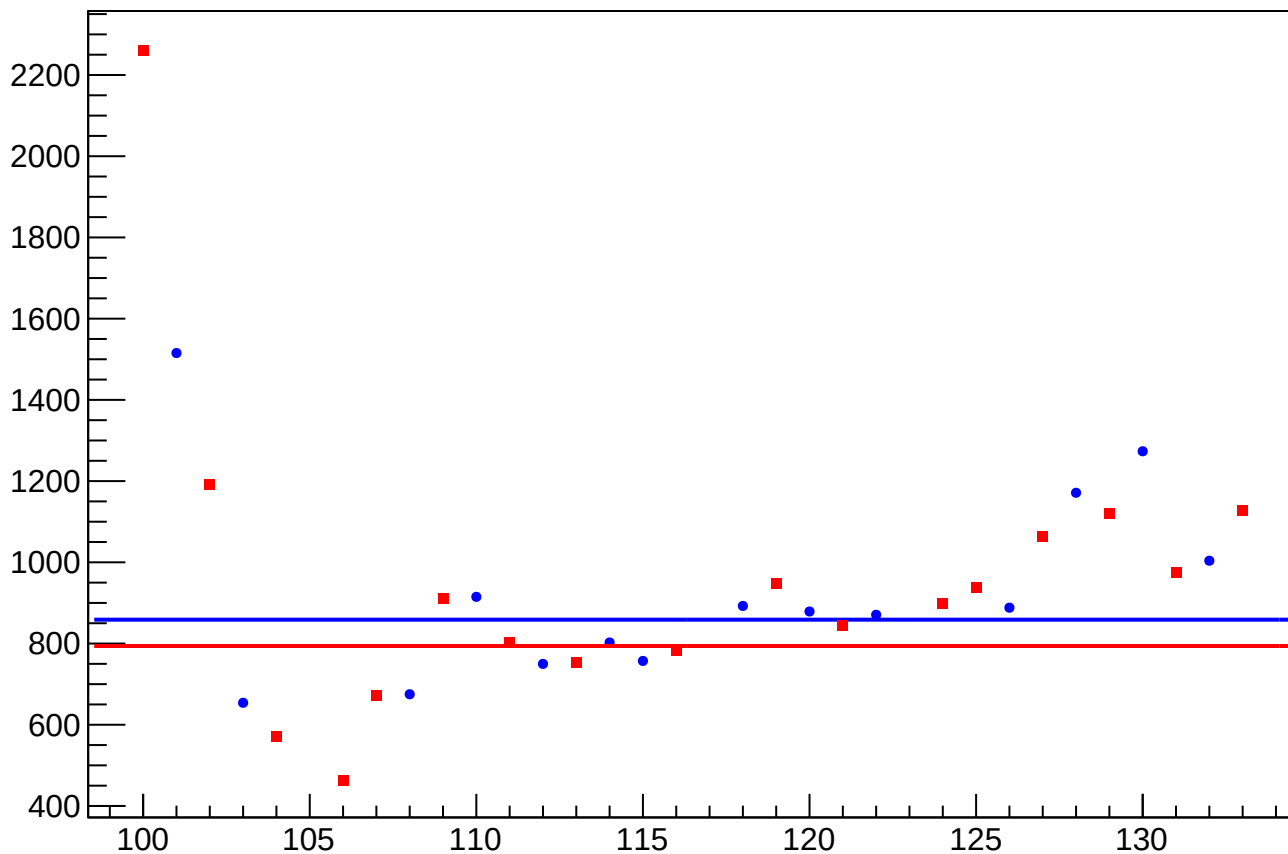
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 50.817+/-242.113  $\chi^2/\text{NDF}$ : 30.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 858.768+/-0.258  $\chi^2/\text{NDF}$ : 645271.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 793.946+/-0.229  $\chi^2/\text{NDF}$ : 901371.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

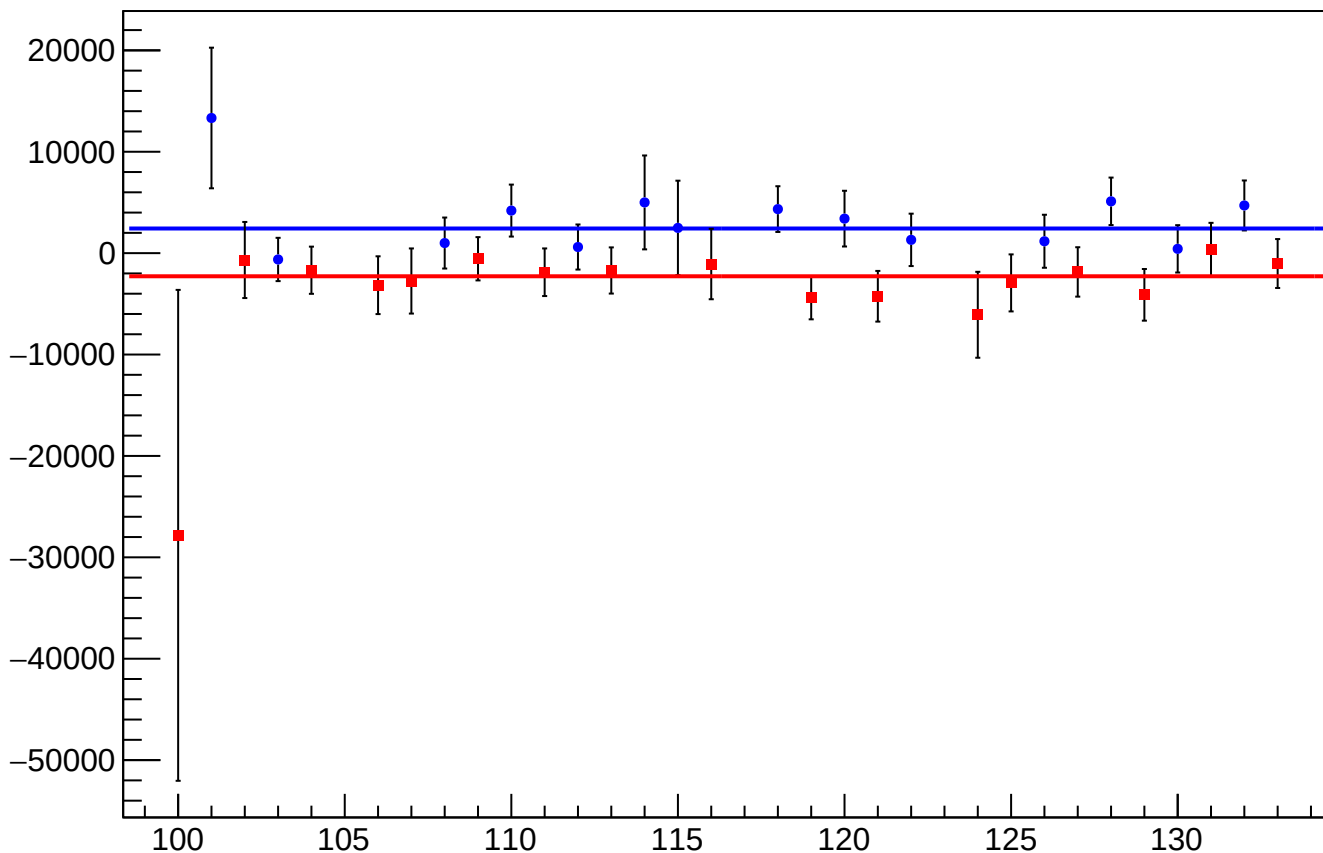
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 822.549+/-0.171  $\chi^2/\text{NDF}$ : 1581989.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 2430.245 $\pm$ 706.858  $\chi^2$ /NDF: 10.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2281.112 $\pm$ 651.439  $\chi^2$ /NDF: 6.6/16

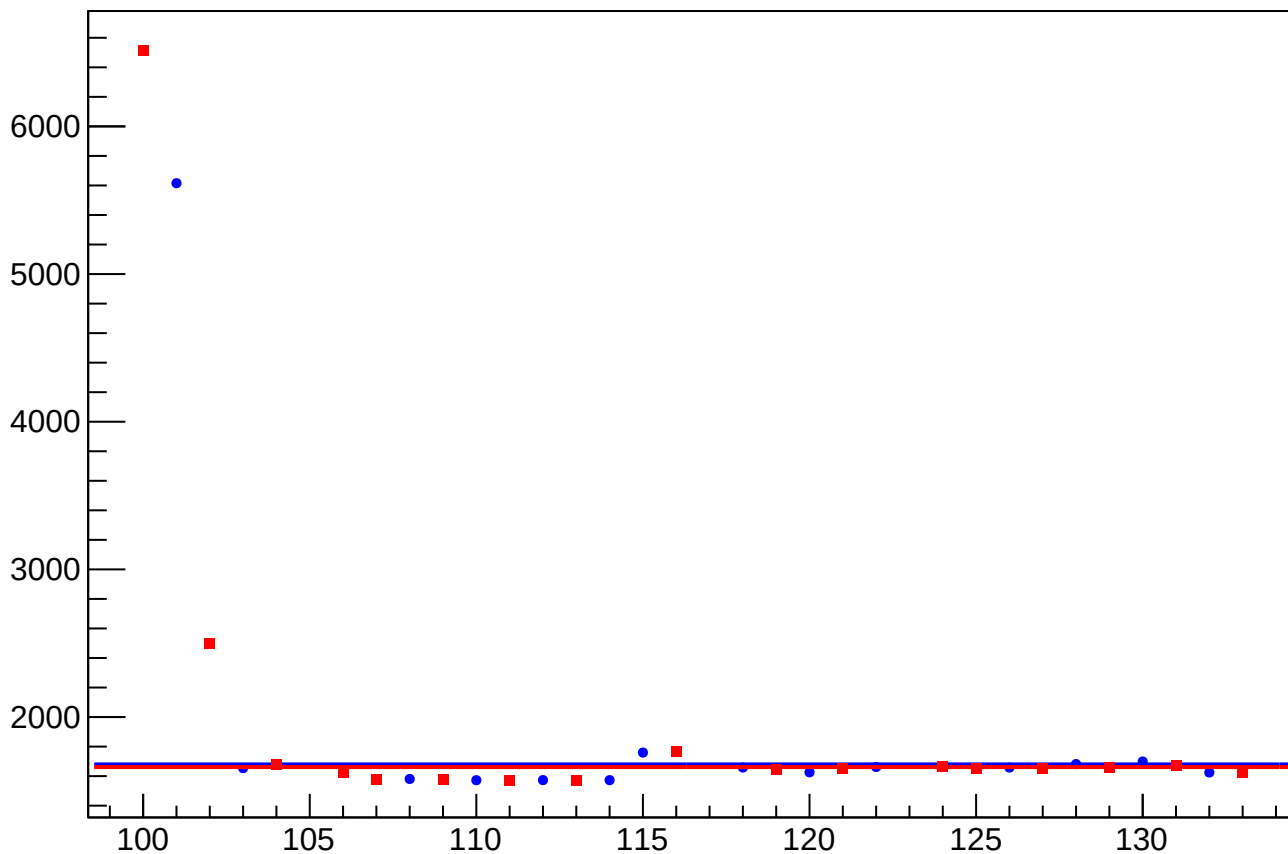
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -117.338 $\pm$ 479.033  $\chi^2$ /NDF: 41.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1679.150+/-0.500  $\chi^2/\text{NDF}$ : 659577.4/13

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

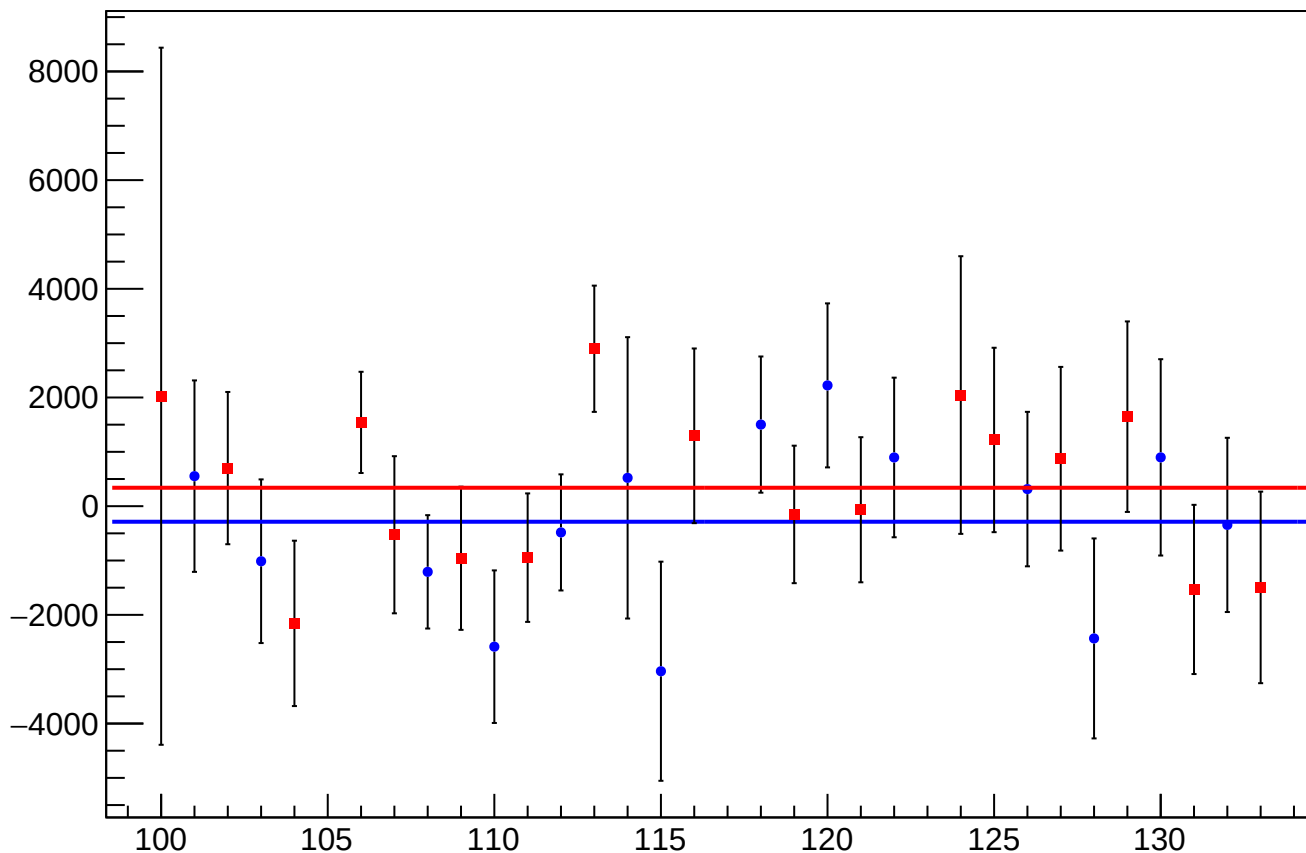
Right Out: 1661.336+/-0.461  $\chi^2/\text{NDF}$ : 192885.8/16

All: 1669.517+/-0.339  $\chi^2/\text{NDF}$ : 853150.1/30

- 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\_atr1\_avg\_dit\_correction\_mean vs Slug



Right In:  $-286.368 \pm 392.650$   $\chi^2/\text{NDF}$ : 13.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $339.125 \pm 351.084$   $\chi^2/\text{NDF}$ : 16.3/16

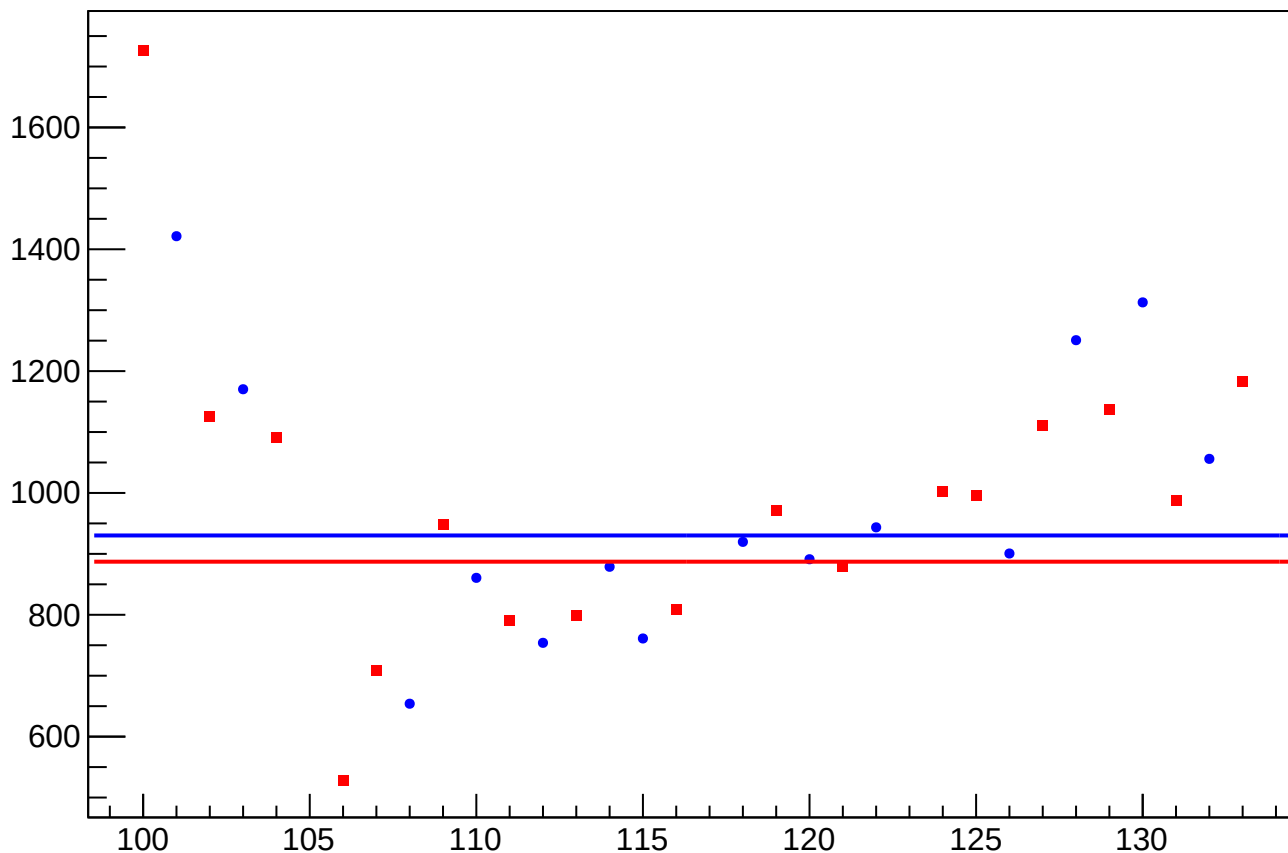
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $61.228 \pm 261.720$   $\chi^2/\text{NDF}$ : 31.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_avg\_dit\_correction\_rms vs Slug



Right In: 930.212+/-0.278  $\chi^2/\text{NDF}$ : 585987.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 887.174+/-0.248  $\chi^2/\text{NDF}$ : 651232.1/16

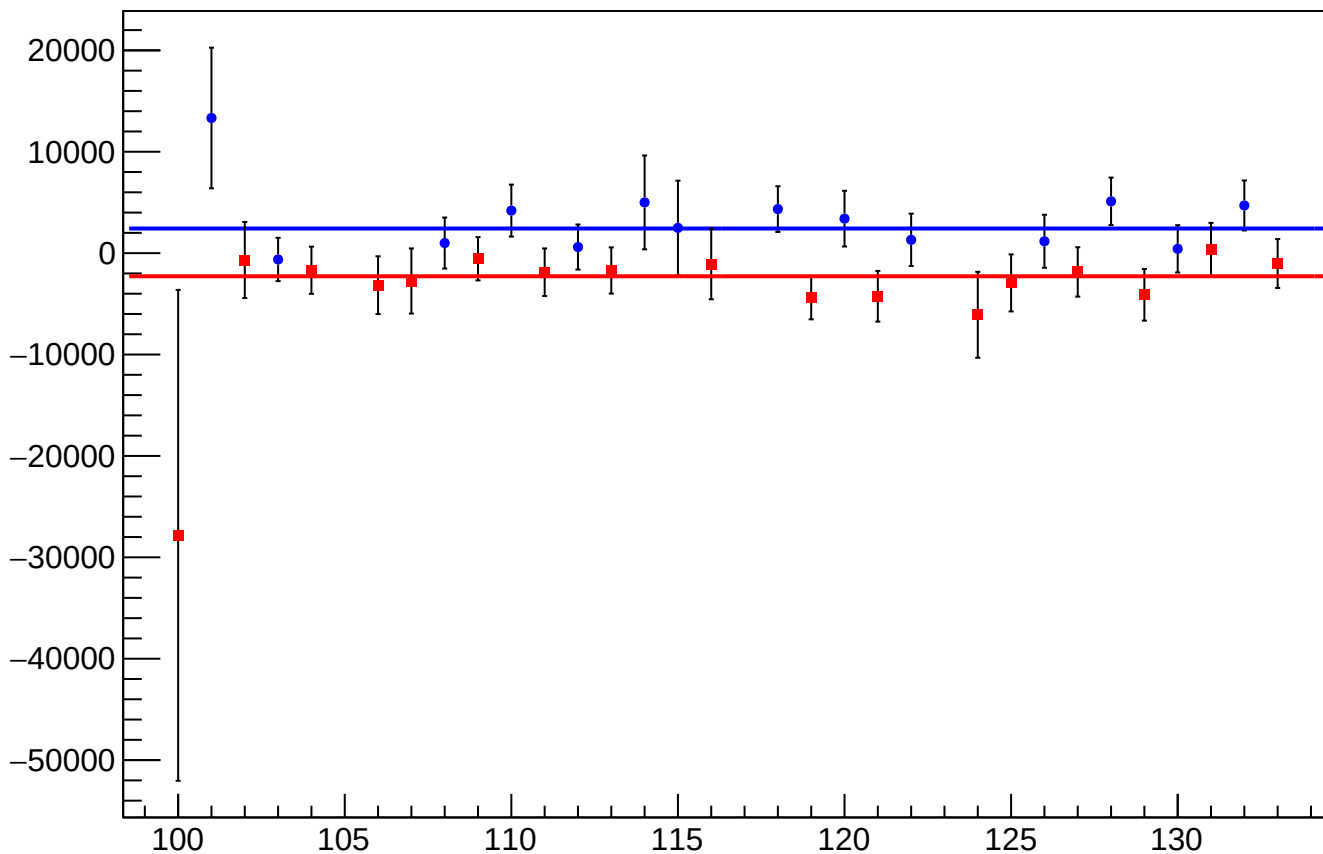
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 906.295+/-0.185  $\chi^2/\text{NDF}$ : 1250572.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 2430.247 $\pm$ 706.858  $\chi^2$ /NDF: 10.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2281.113 $\pm$ 651.439  $\chi^2$ /NDF: 6.6/16

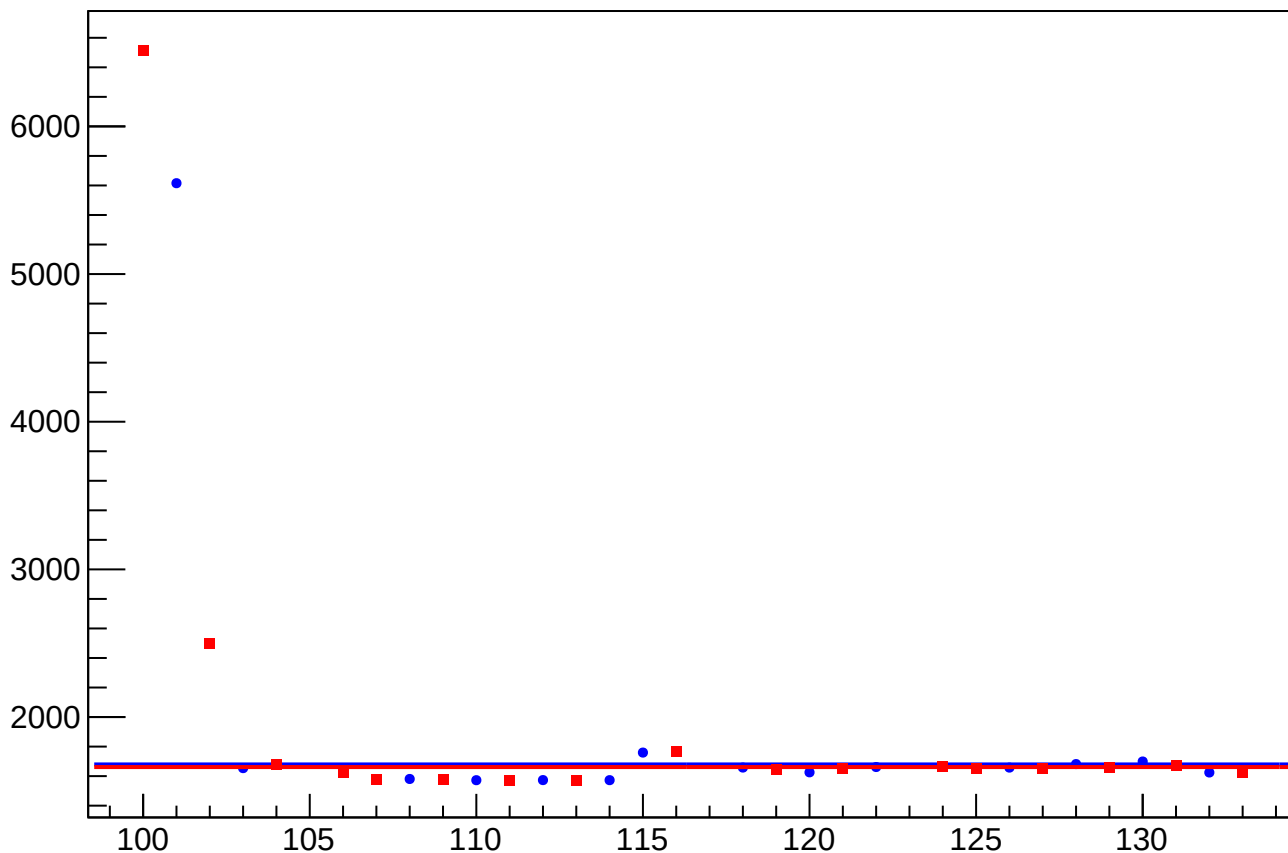
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -117.338 $\pm$ 479.033  $\chi^2$ /NDF: 41.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1679.150+/-0.500  $\chi^2/\text{NDF}$ : 659577.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1661.336+/-0.461  $\chi^2/\text{NDF}$ : 192885.7/16

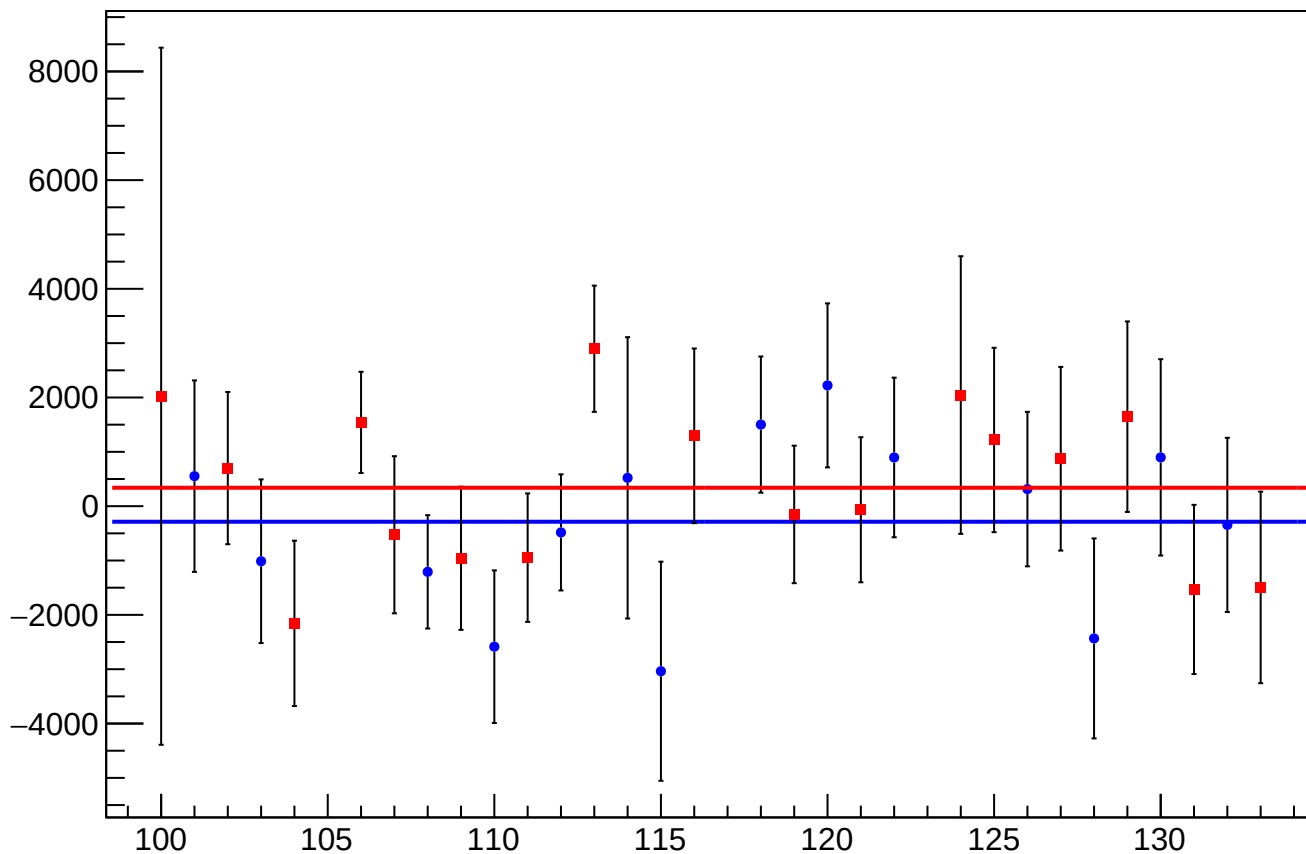
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1669.517+/-0.339  $\chi^2/\text{NDF}$ : 853150.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -286.366+/-392.648  $\chi^2/\text{NDF}$ : 13.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 339.124+/-351.083  $\chi^2/\text{NDF}$ : 16.3/16

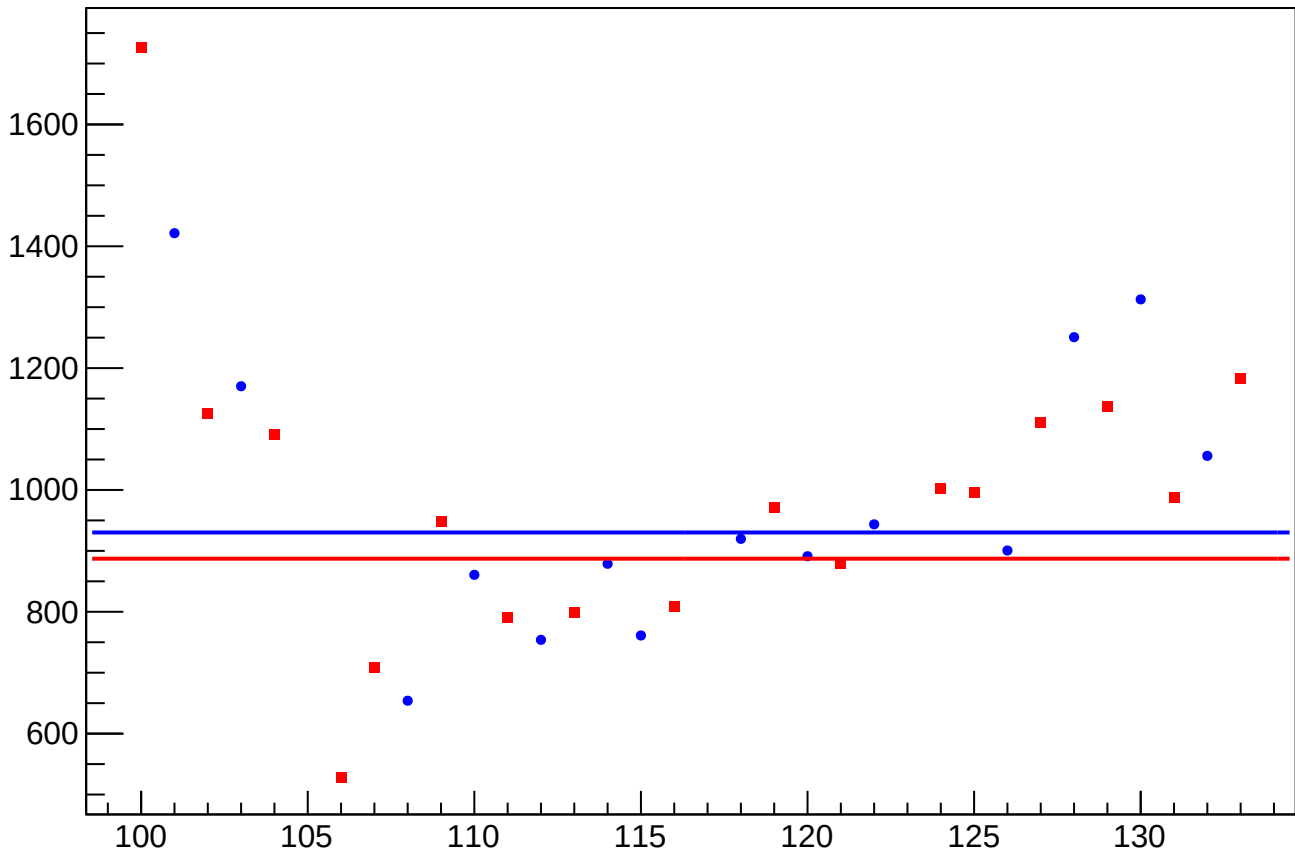
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 61.227+/-261.719  $\chi^2/\text{NDF}$ : 31.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 930.207 $\pm$ 0.278  $\chi^2$ /NDF: 585990.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 887.171 $\pm$ 0.248  $\chi^2$ /NDF: 651226.6/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

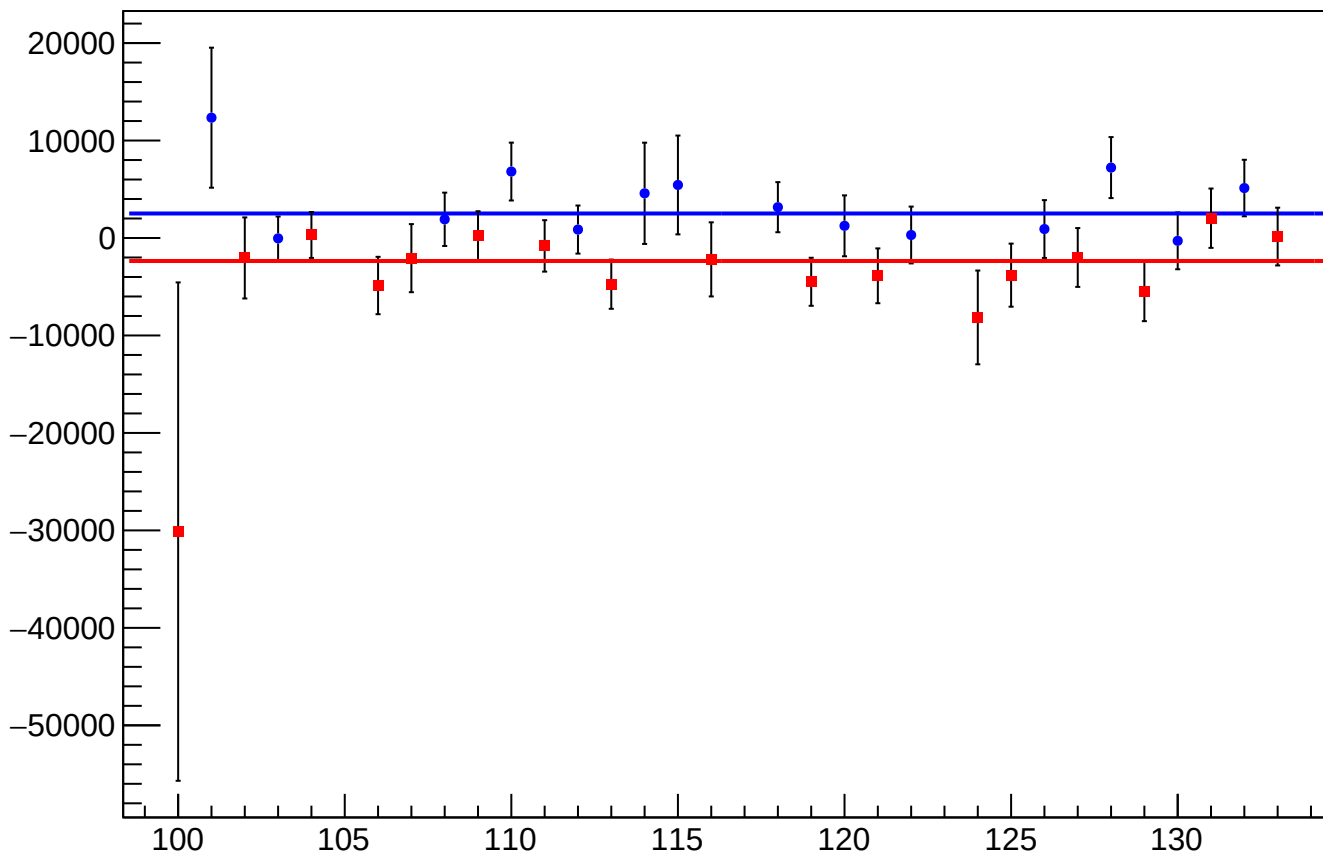
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 906.291 $\pm$ 0.185  $\chi^2$ /NDF: 1250568.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_usr\_atr1\_avg\_mean vs Slug



Right In: 2514.760 $\pm$ 808.669  $\chi^2$ /NDF: 11.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2359.230 $\pm$ 739.134  $\chi^2$ /NDF: 12.0/16

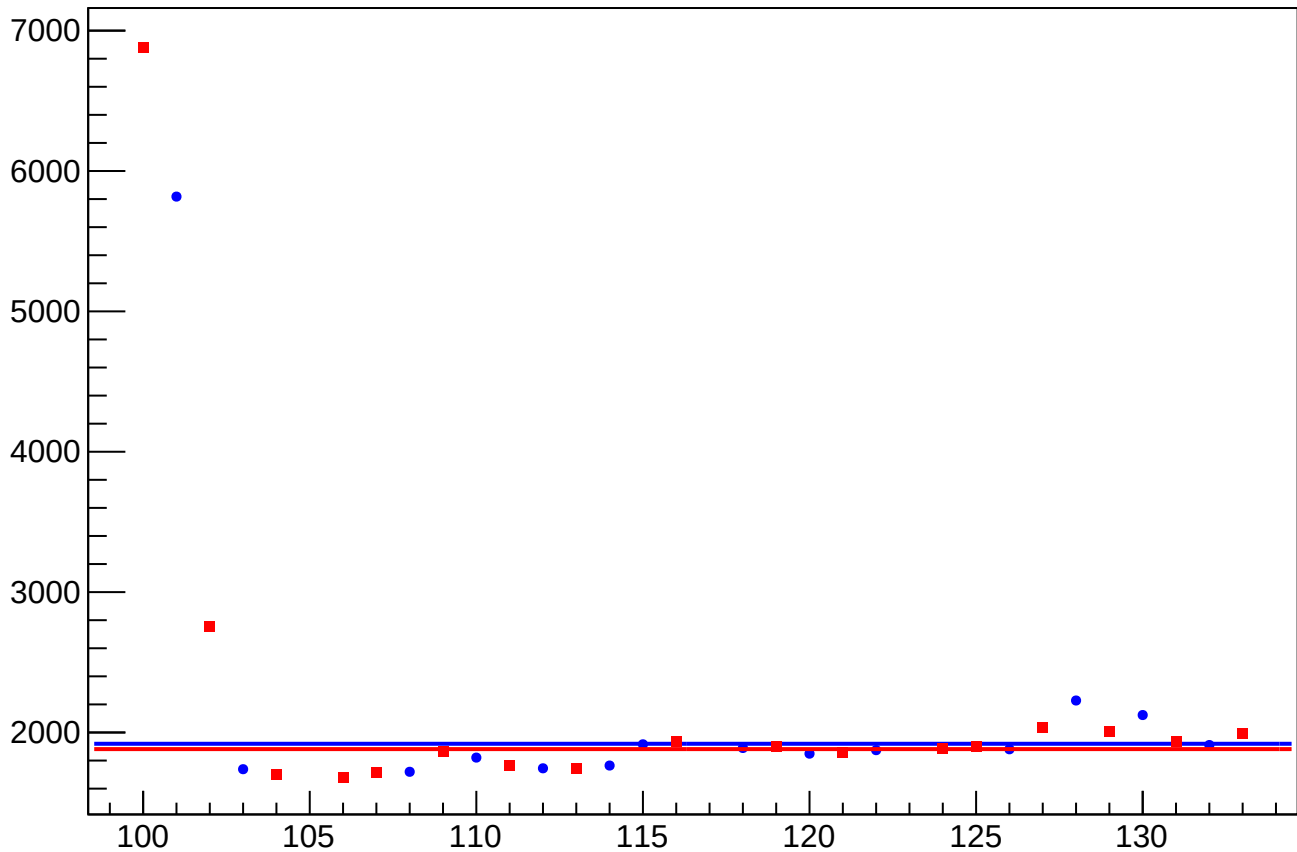
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -140.759 $\pm$ 545.576  $\chi^2$ /NDF: 43.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr1\_avg\_rms vs Slug



Right In: 1919.597 $\pm$ 0.572  $\chi^2$ /NDF: 657932.9/13

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

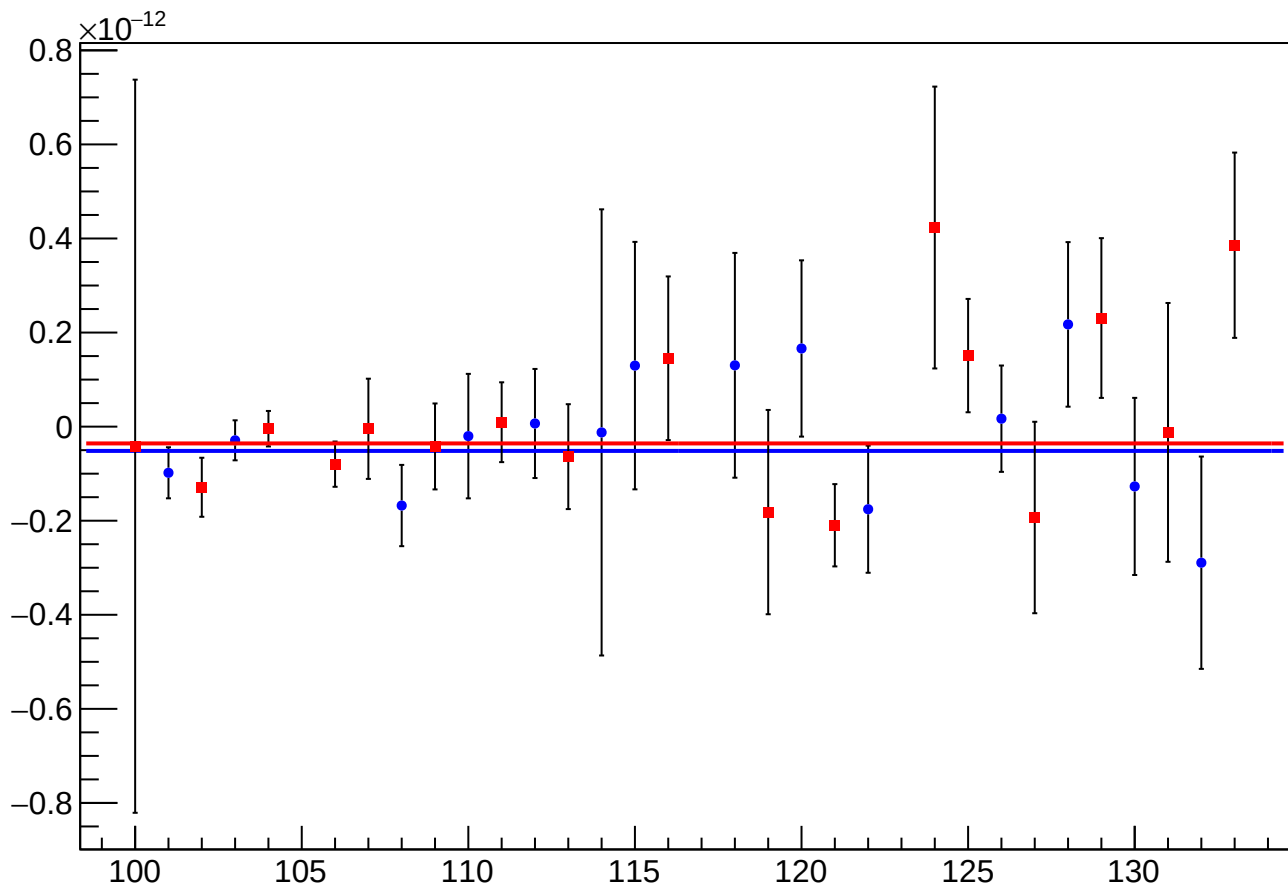
Right Out: 1881.632 $\pm$ 0.523  $\chi^2$ /NDF: 213694.9/16

All: 1898.912 $\pm$ 0.386  $\chi^2$ /NDF: 874029.6/30

- 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\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 22.1/16

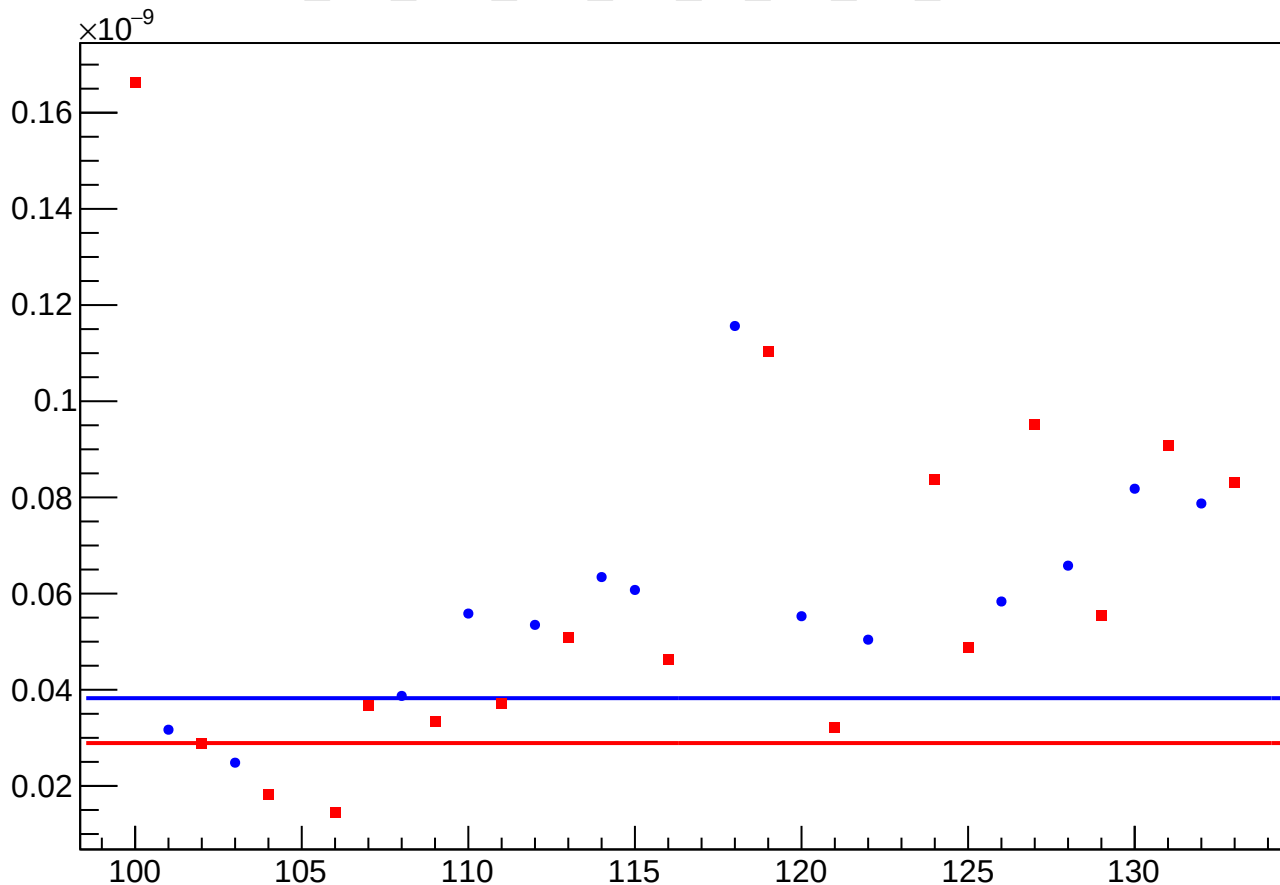
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 32.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 845289.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1454680.9/16

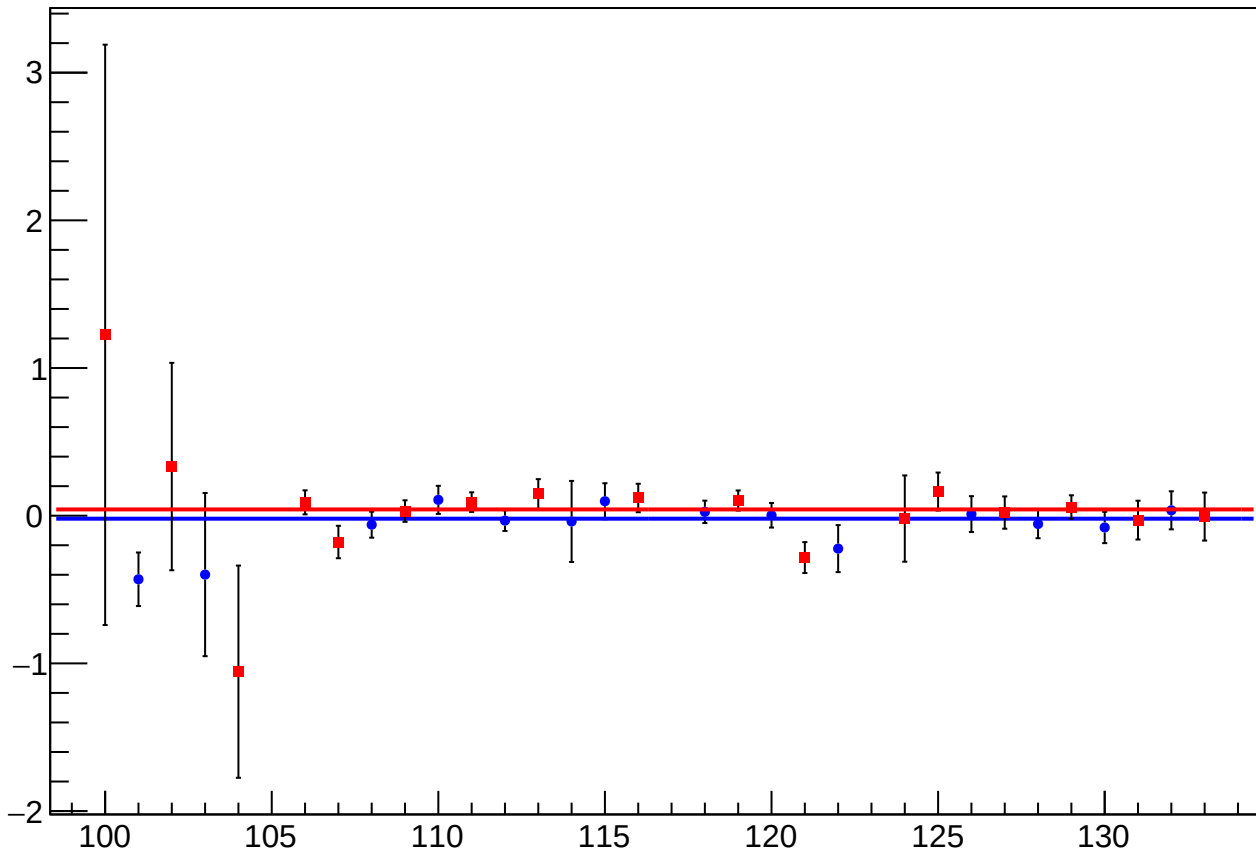
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2450966.4/30

- 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: -0.020 $\pm$ 0.028  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.043 $\pm$ 0.025  $\chi^2$ /NDF: 21.5/16

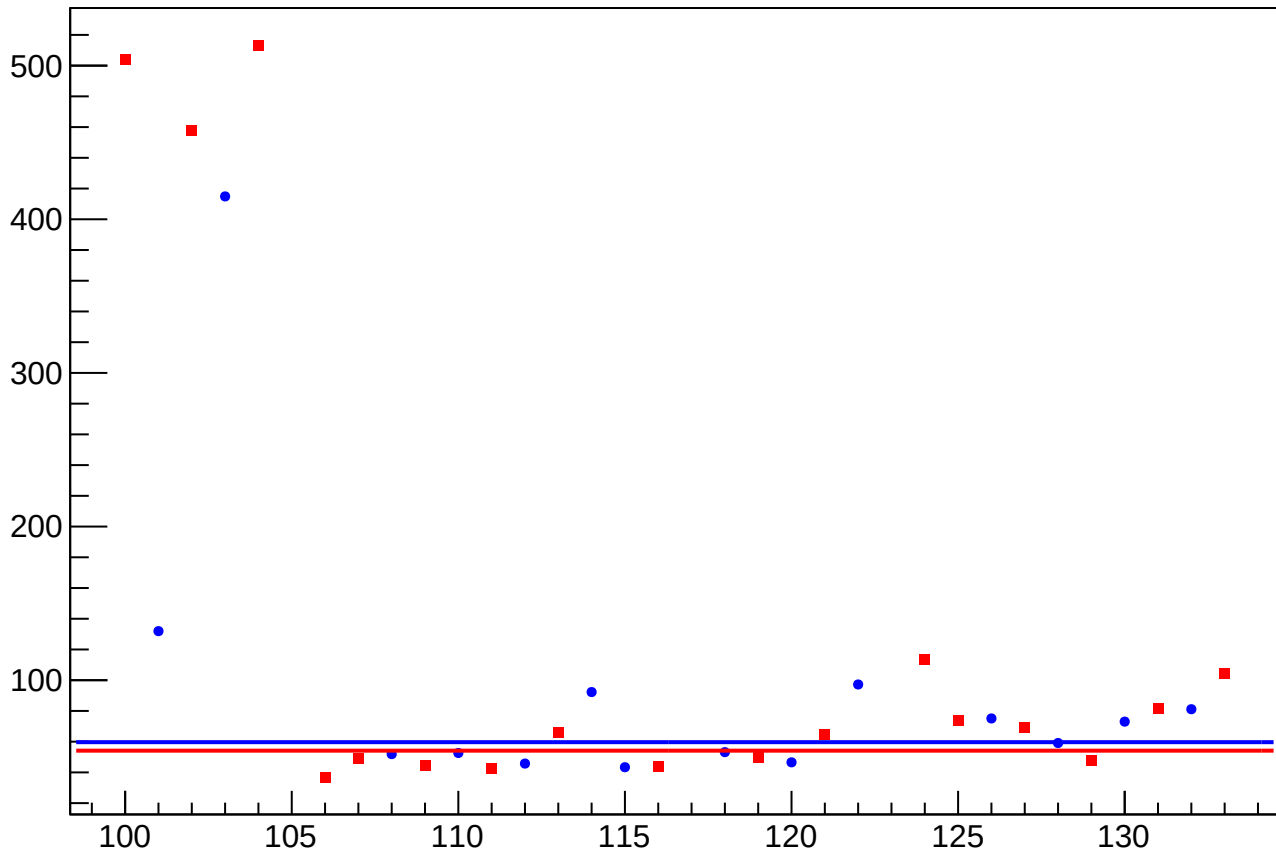
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.019  $\chi^2$ /NDF: 35.6/30

- 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: 59.670+/-0.020  $\chi^2/\text{NDF}$ : 1609116.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 54.145+/-0.018  $\chi^2/\text{NDF}$ : 2315350.4/16

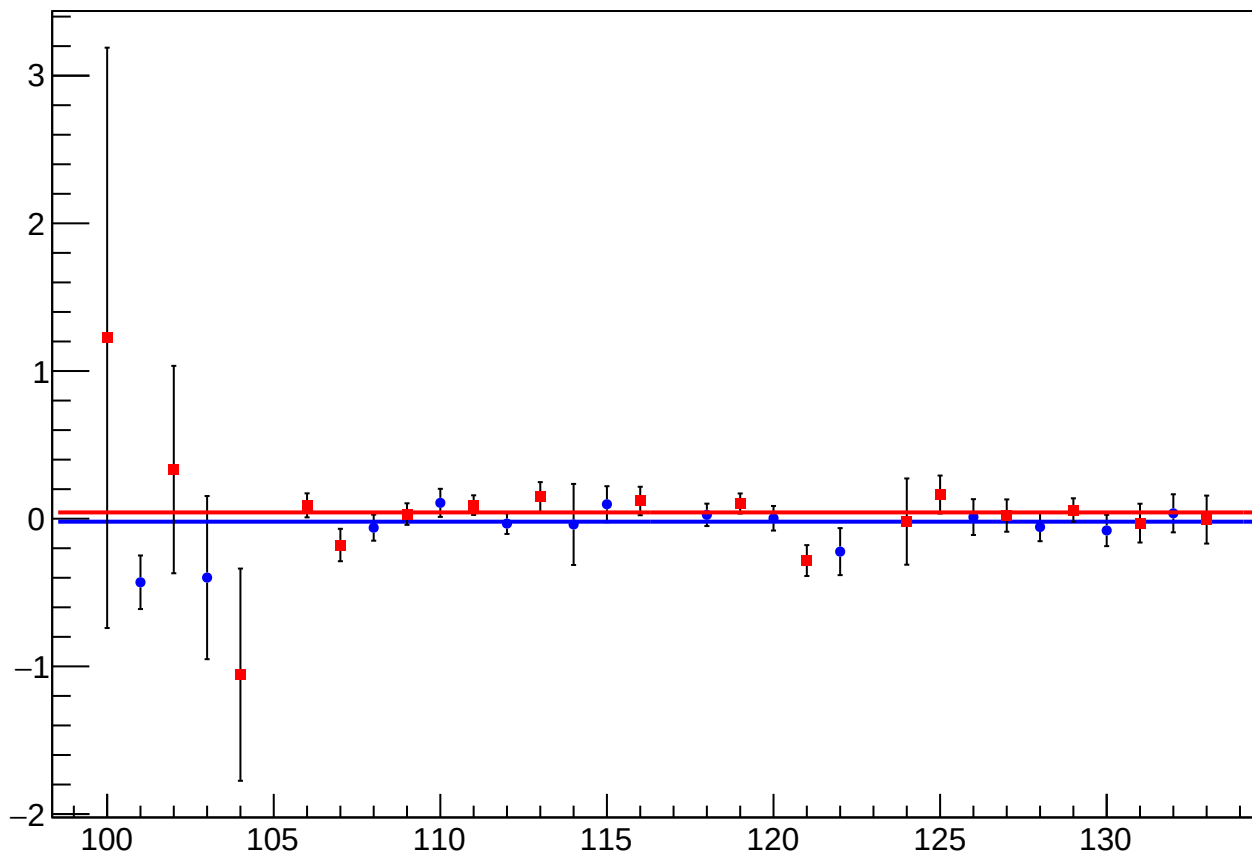
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.577+/-0.013  $\chi^2/\text{NDF}$ : 3966860.6/30

- 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: -0.020 $\pm$ 0.028  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.043 $\pm$ 0.025  $\chi^2$ /NDF: 21.5/16

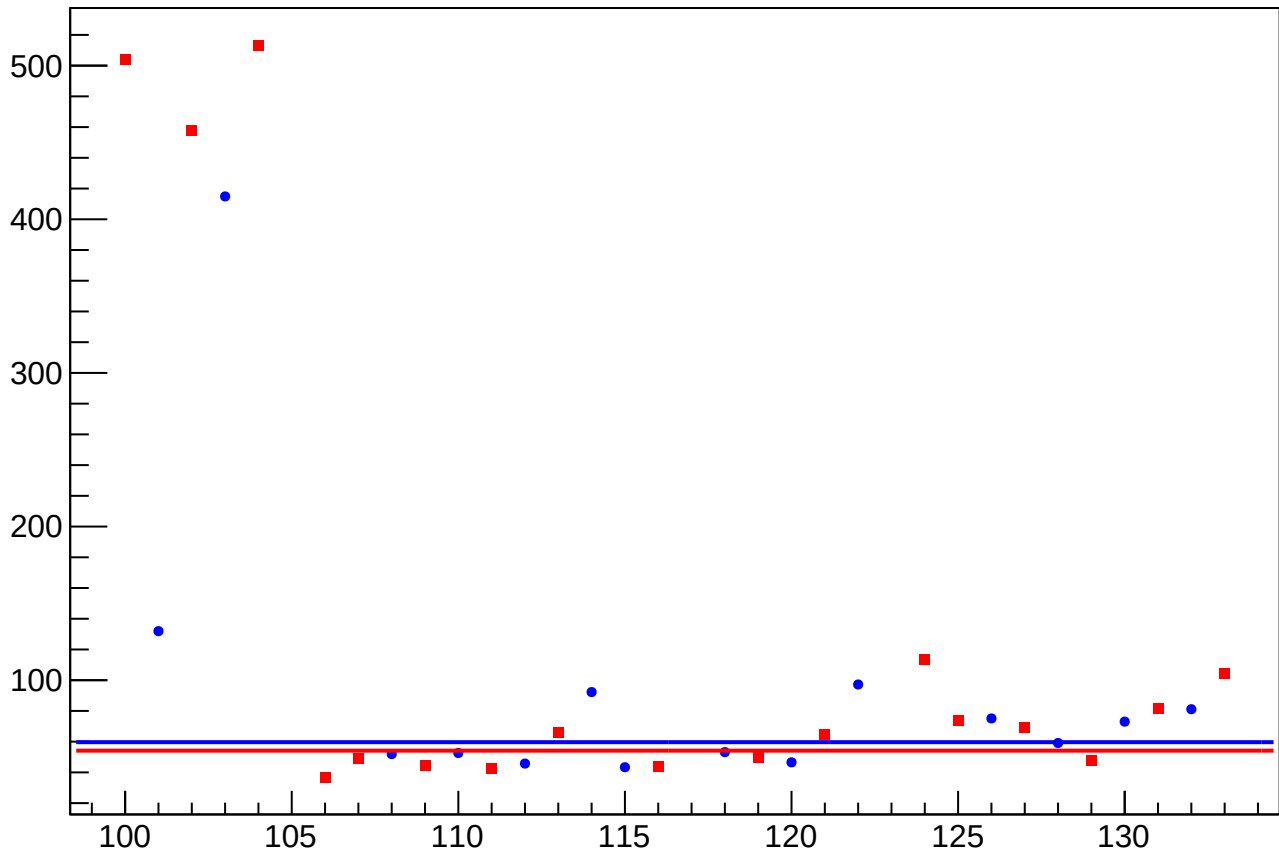
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.019  $\chi^2$ /NDF: 35.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 59.670 $\pm$ 0.020  $\chi^2$ /NDF: 1609116.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 54.145 $\pm$ 0.018  $\chi^2$ /NDF: 2315350.4/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

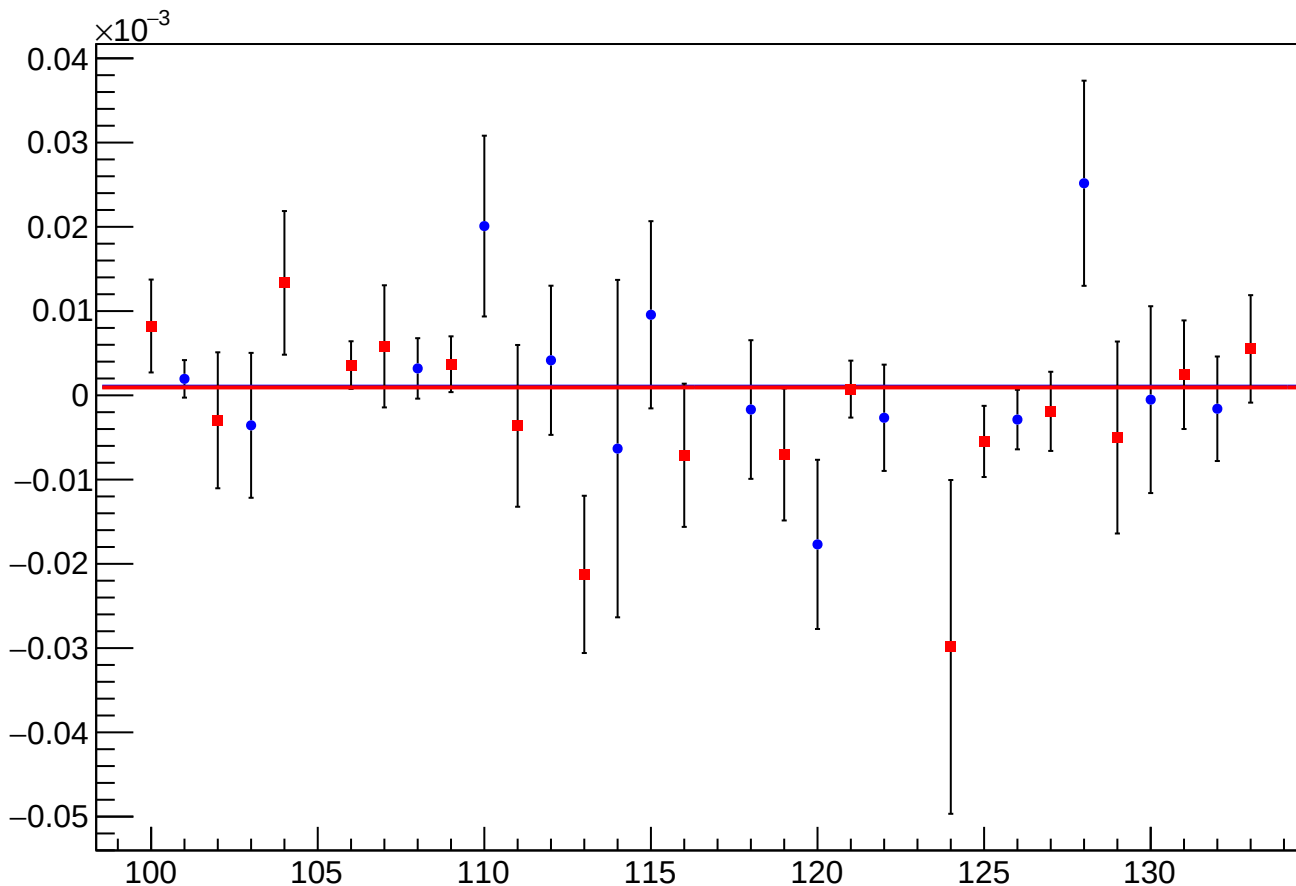
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.577 $\pm$ 0.013  $\chi^2$ /NDF: 3966860.6/30

- 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: 14.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.9/16

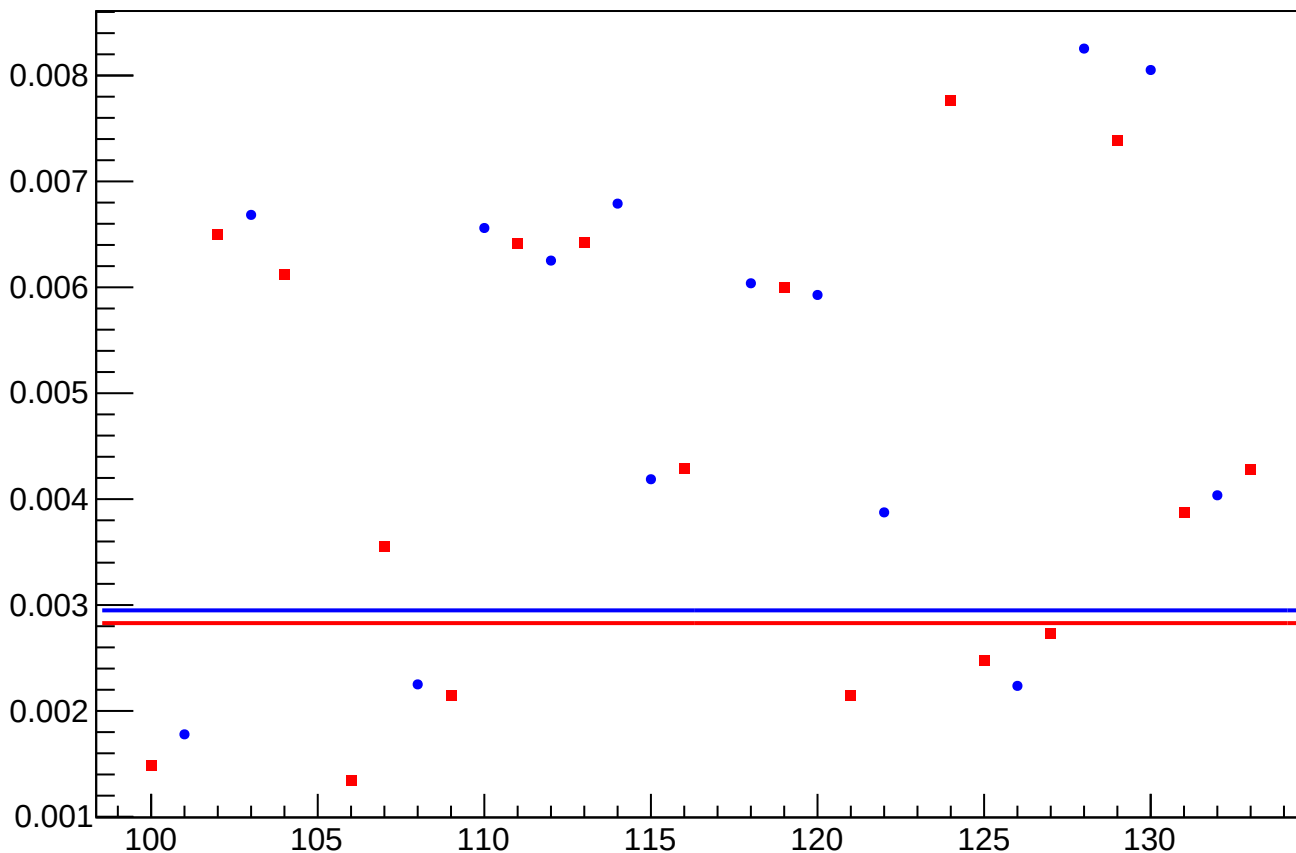
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 34.0/30

- 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  $\chi^2/\text{NDF}$ : 3056127.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 3146271.2/16

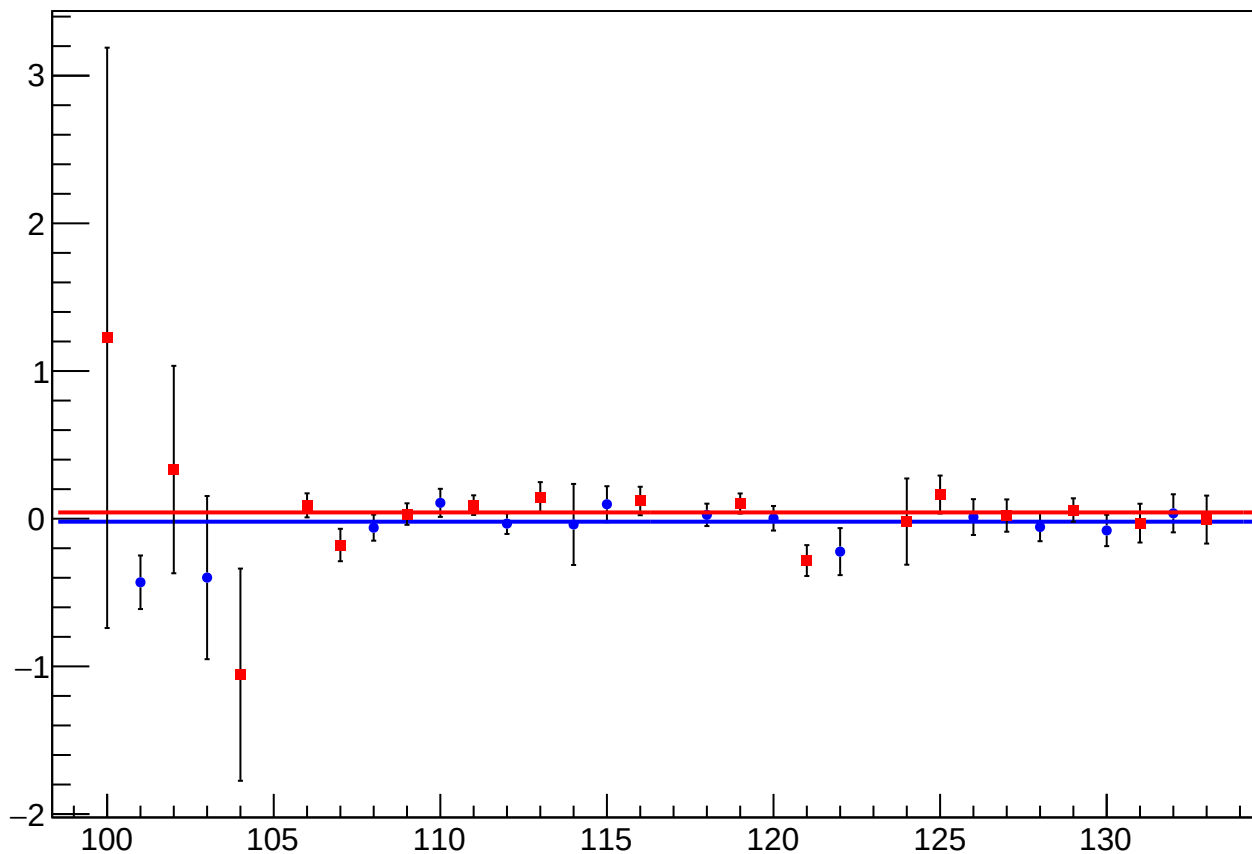
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 6210253.3/30

- 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: -0.020 $\pm$ 0.028  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.043 $\pm$ 0.025  $\chi^2$ /NDF: 21.5/16

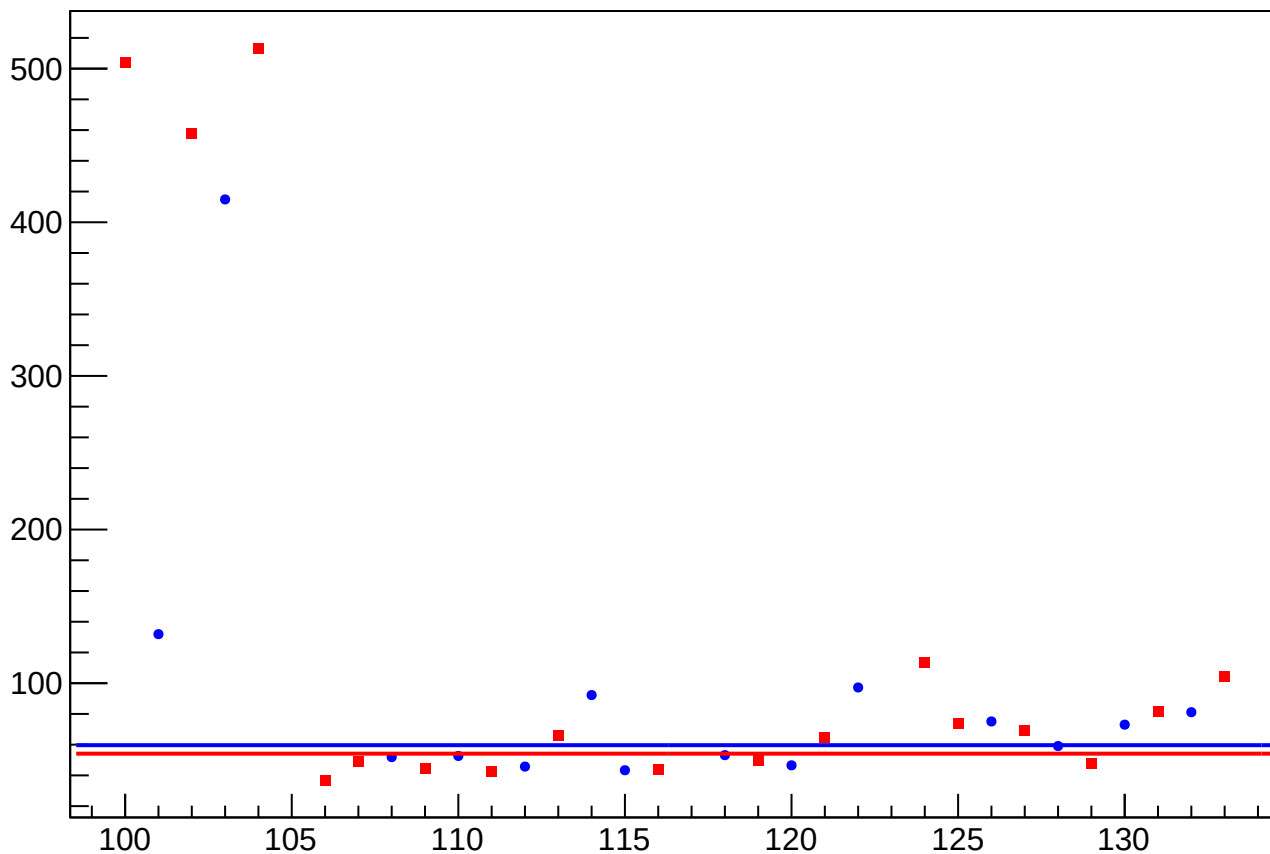
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.019  $\chi^2$ /NDF: 35.6/30

- 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: 59.669+/-0.020  $\chi^2/\text{NDF}$ : 1609057.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 54.144+/-0.018  $\chi^2/\text{NDF}$ : 2315305.4/16

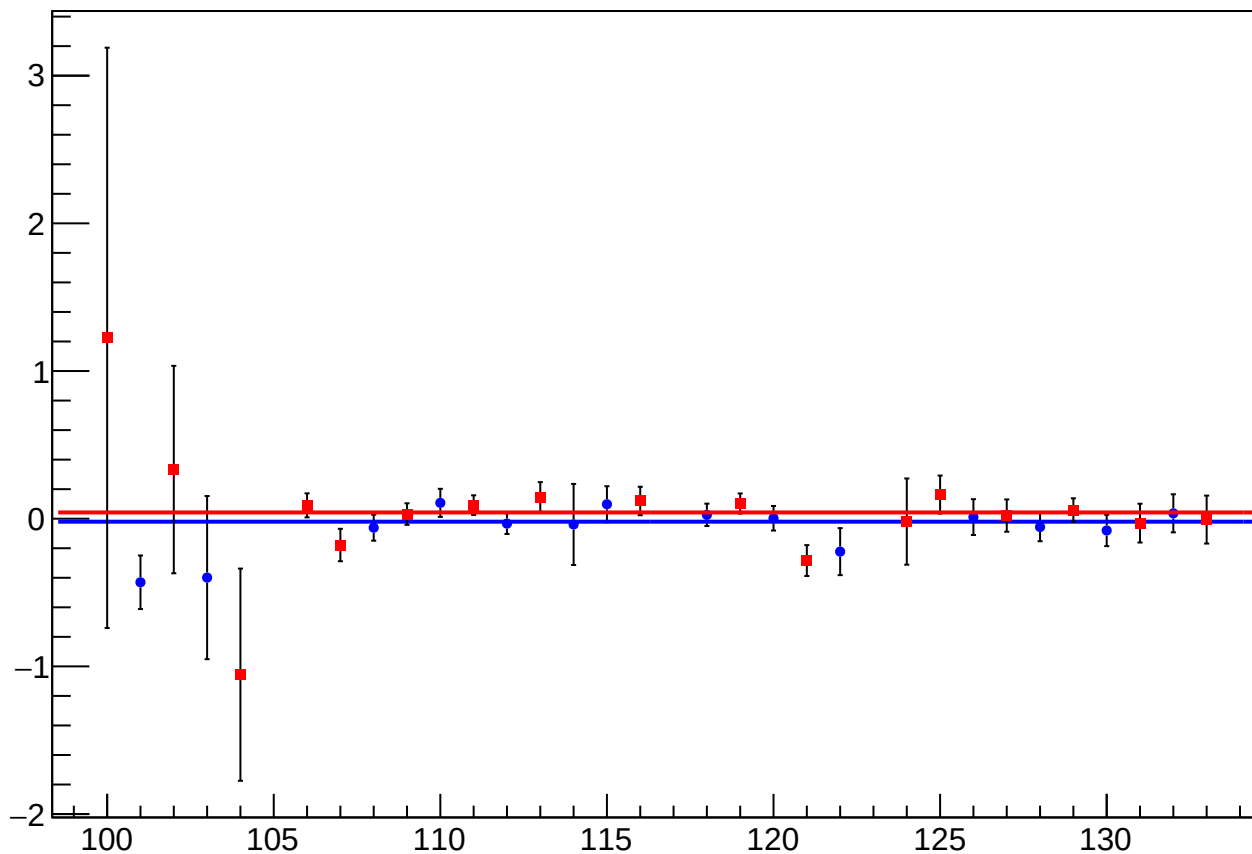
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.576+/-0.013  $\chi^2/\text{NDF}$ : 3966762.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.020 $\pm$ 0.028  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.043 $\pm$ 0.025  $\chi^2$ /NDF: 21.5/16

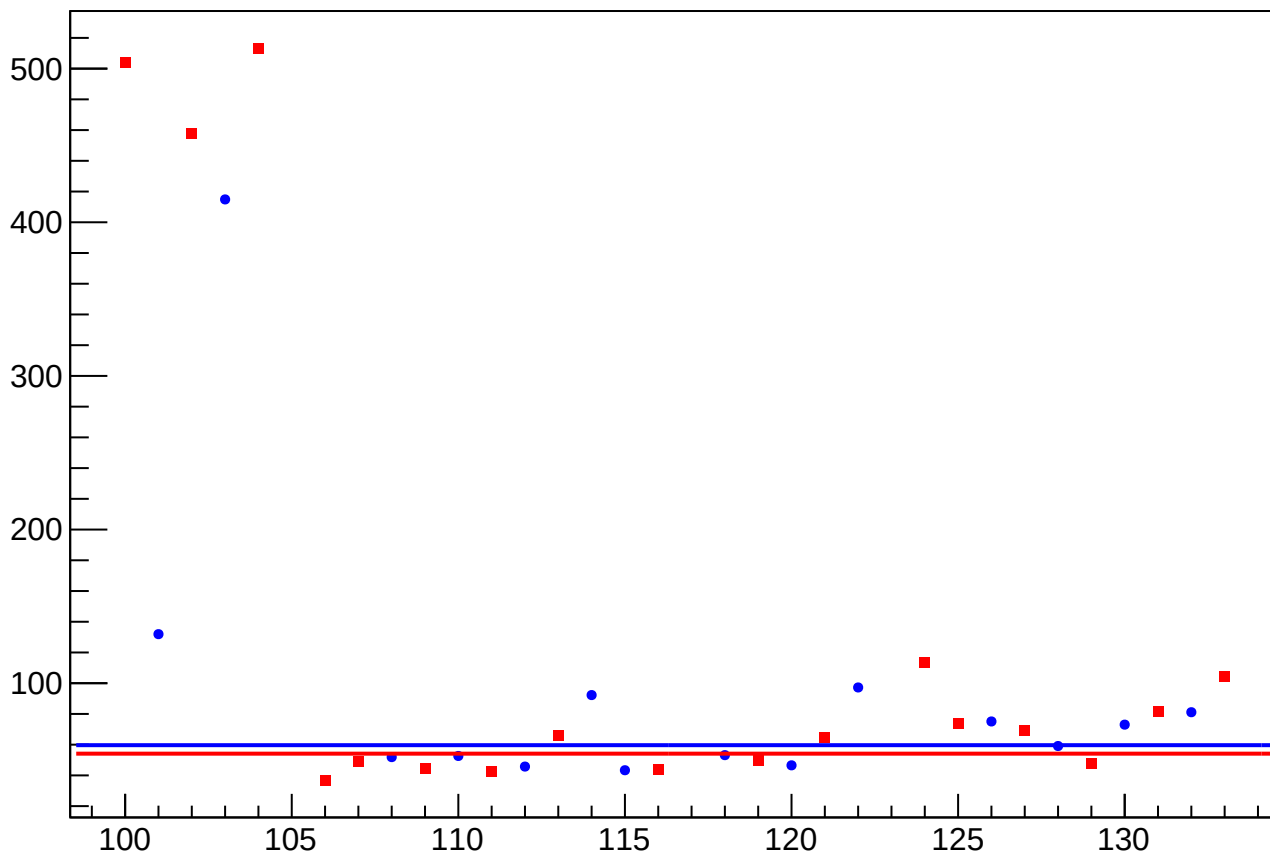
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.019  $\chi^2$ /NDF: 35.6/30

- 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: 59.669 $\pm$ 0.020  $\chi^2$ /NDF: 1609057.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 54.144 $\pm$ 0.018  $\chi^2$ /NDF: 2315305.4/16

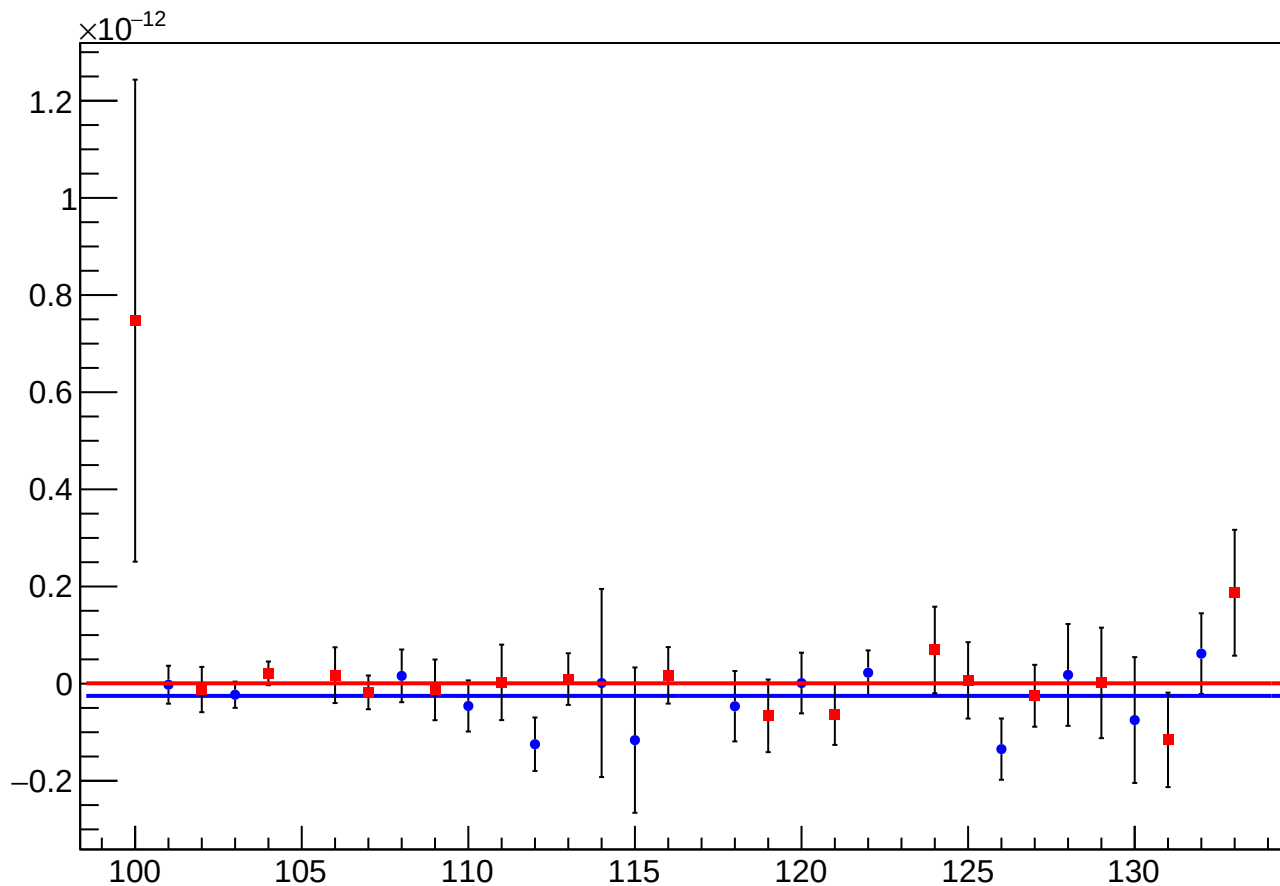
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.576 $\pm$ 0.013  $\chi^2$ /NDF: 3966762.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.7/16

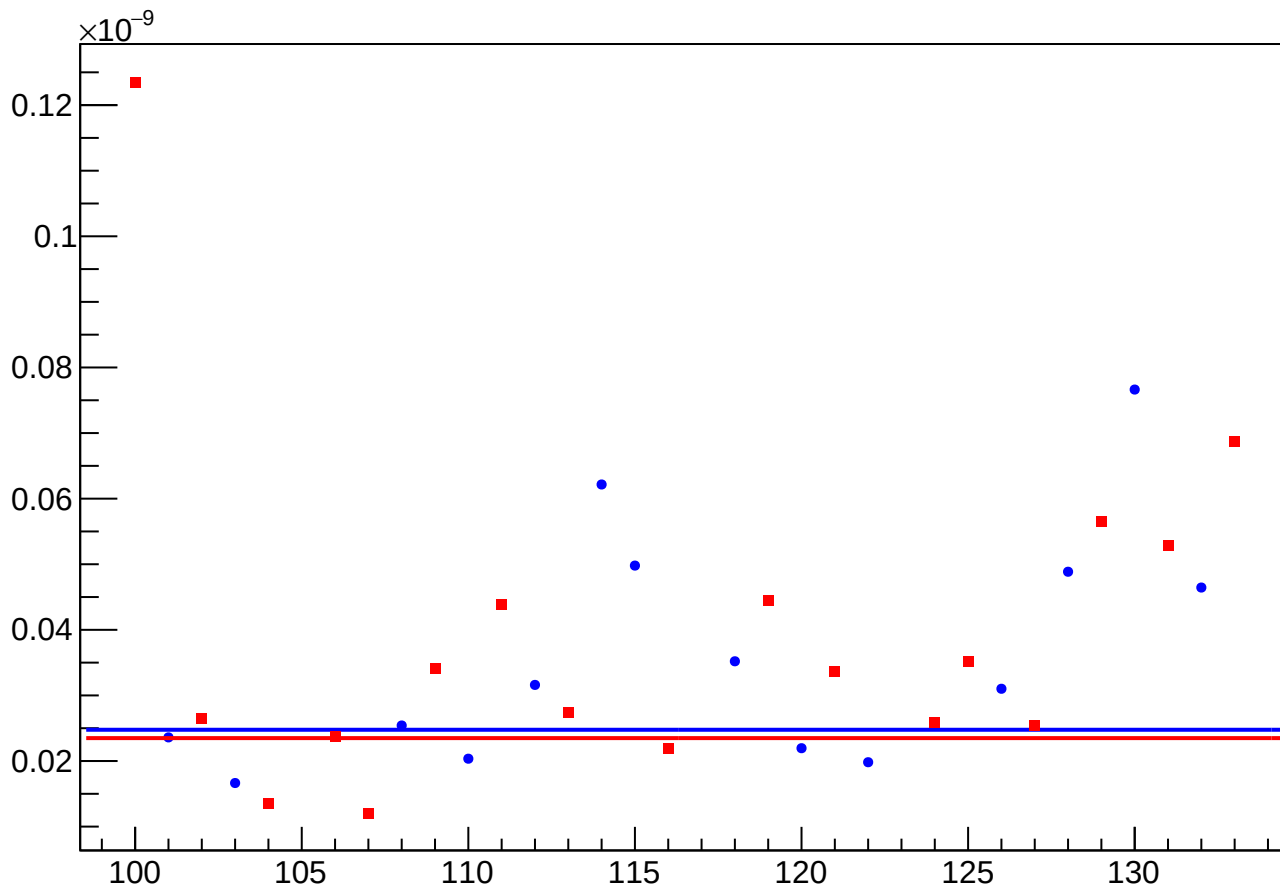
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 21.9/30

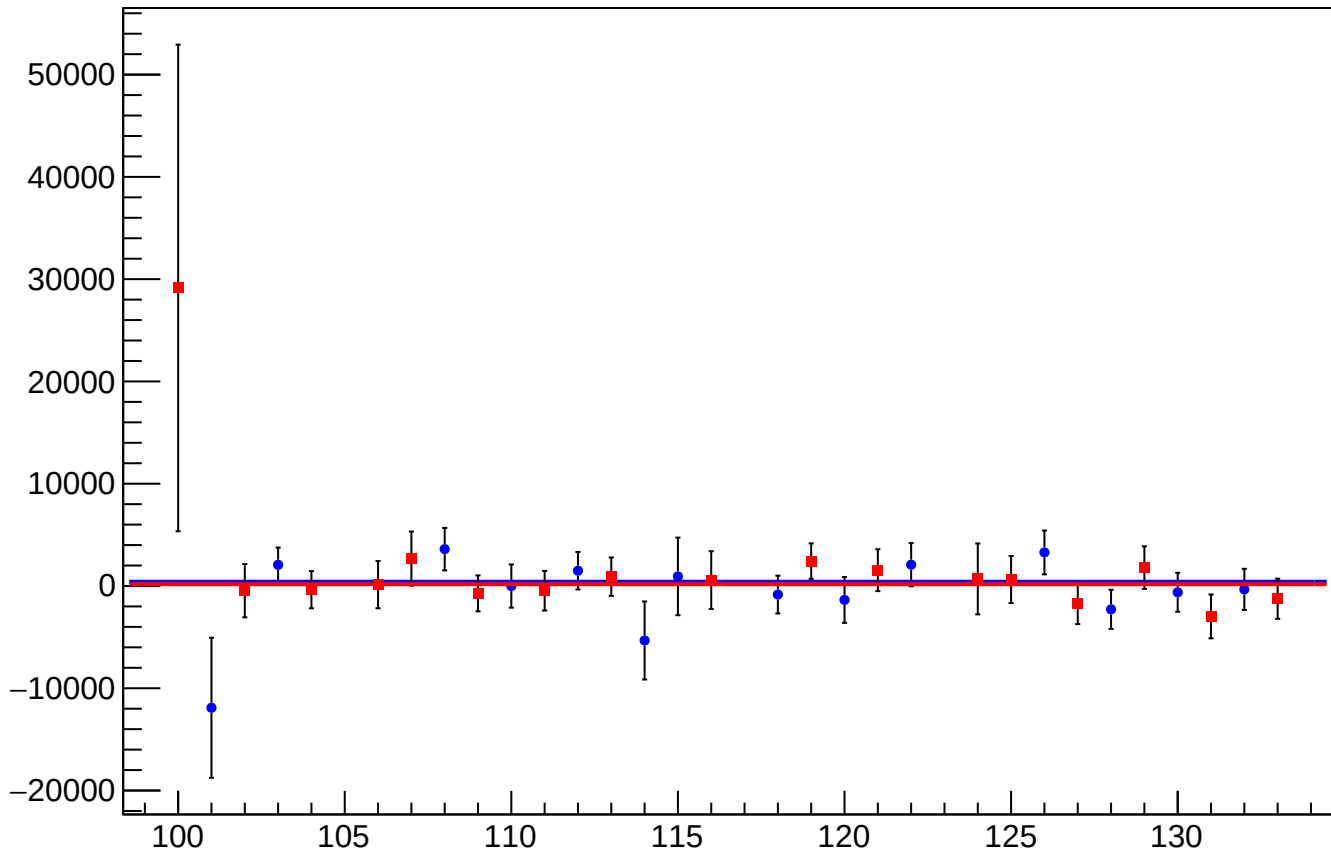
- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug





# reg\_asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 414.700 $\pm$ 577.749  $\chi^2$ /NDF: 15.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 171.804 $\pm$ 528.255  $\chi^2$ /NDF: 9.5/16

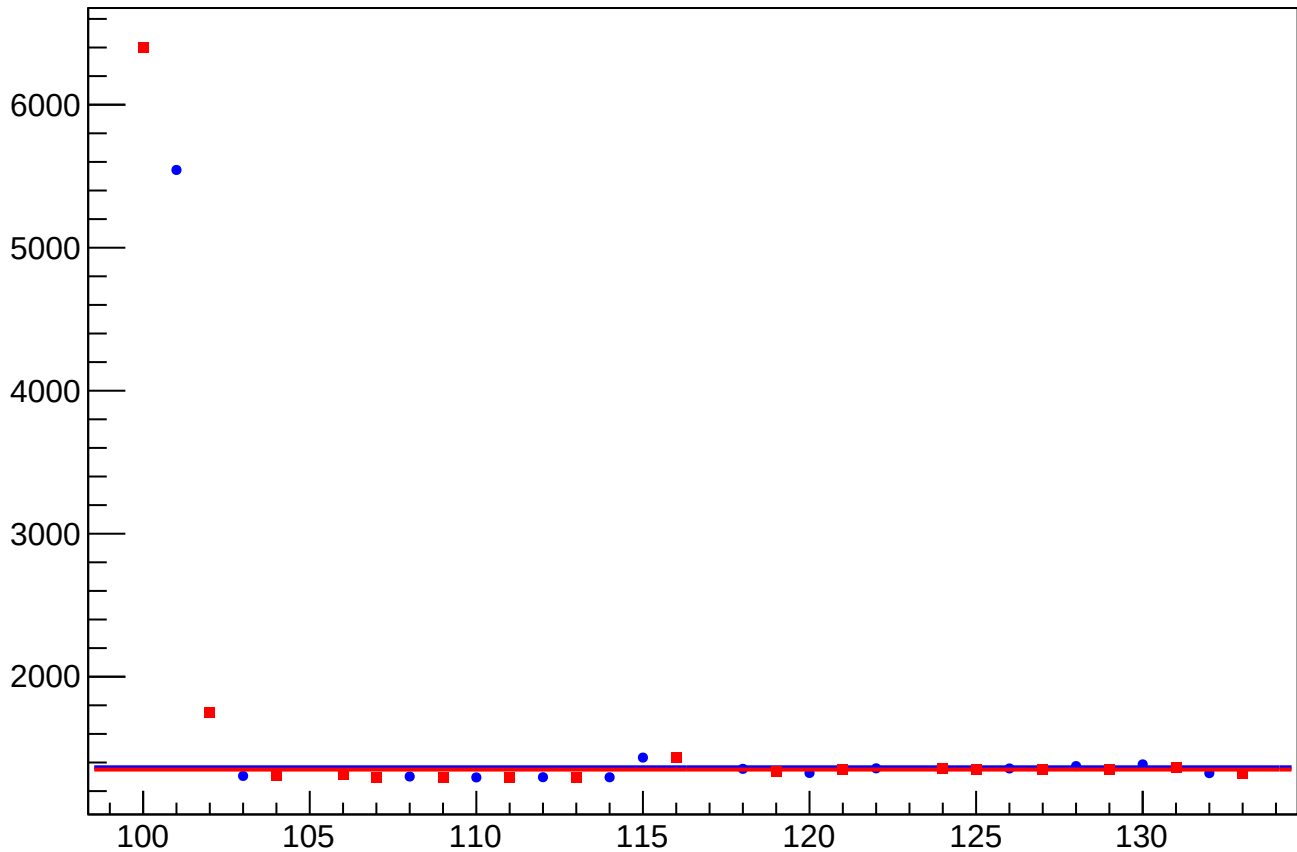
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 282.404 $\pm$ 389.858  $\chi^2$ /NDF: 24.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1366.453+/-0.409  $\chi^2/\text{NDF}$ : 757141.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1350.588+/-0.374  $\chi^2/\text{NDF}$ : 146964.1/16

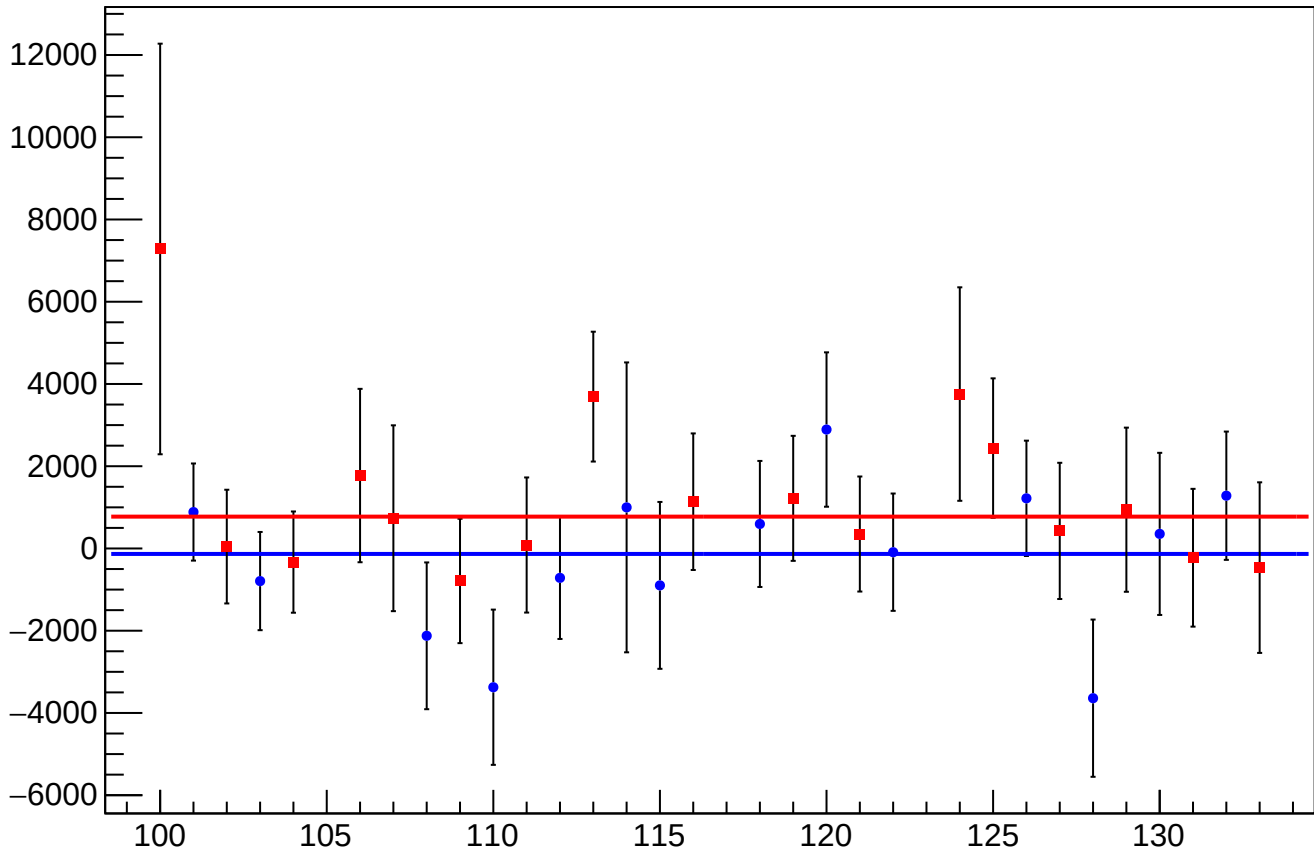
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1357.812+/-0.276  $\chi^2/\text{NDF}$ : 904927.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_reg\_correction\_mean vs Slug



Right In: -132.919+/-428.698  $\chi^2/\text{NDF}$ : 13.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 774.315+/-413.073  $\chi^2/\text{NDF}$ : 10.9/16

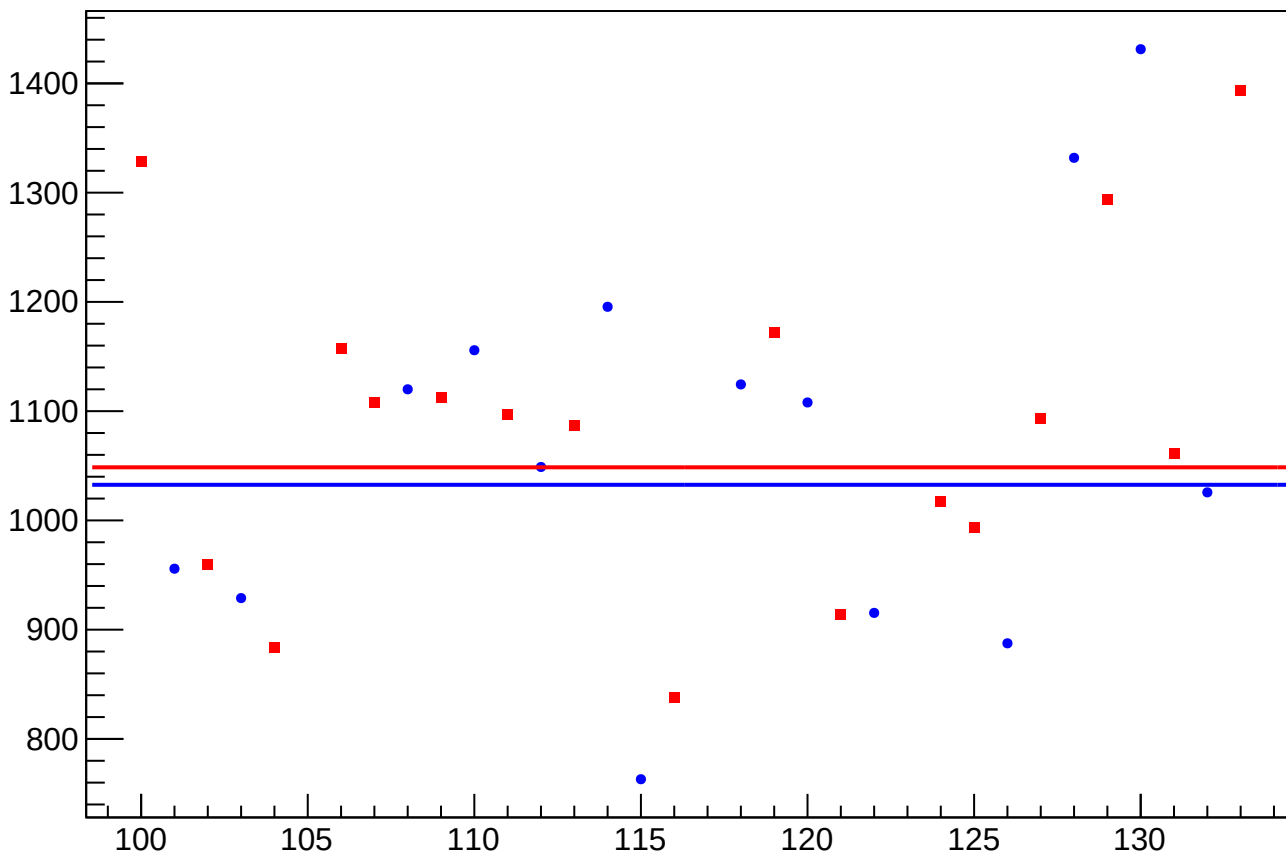
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 337.533+/-297.457  $\chi^2/\text{NDF}$ : 26.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_reg\_correction\_rms vs Slug



Right In: 1032.601 $\pm$ 0.303  $\chi^2$ /NDF: 252851.7/13

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

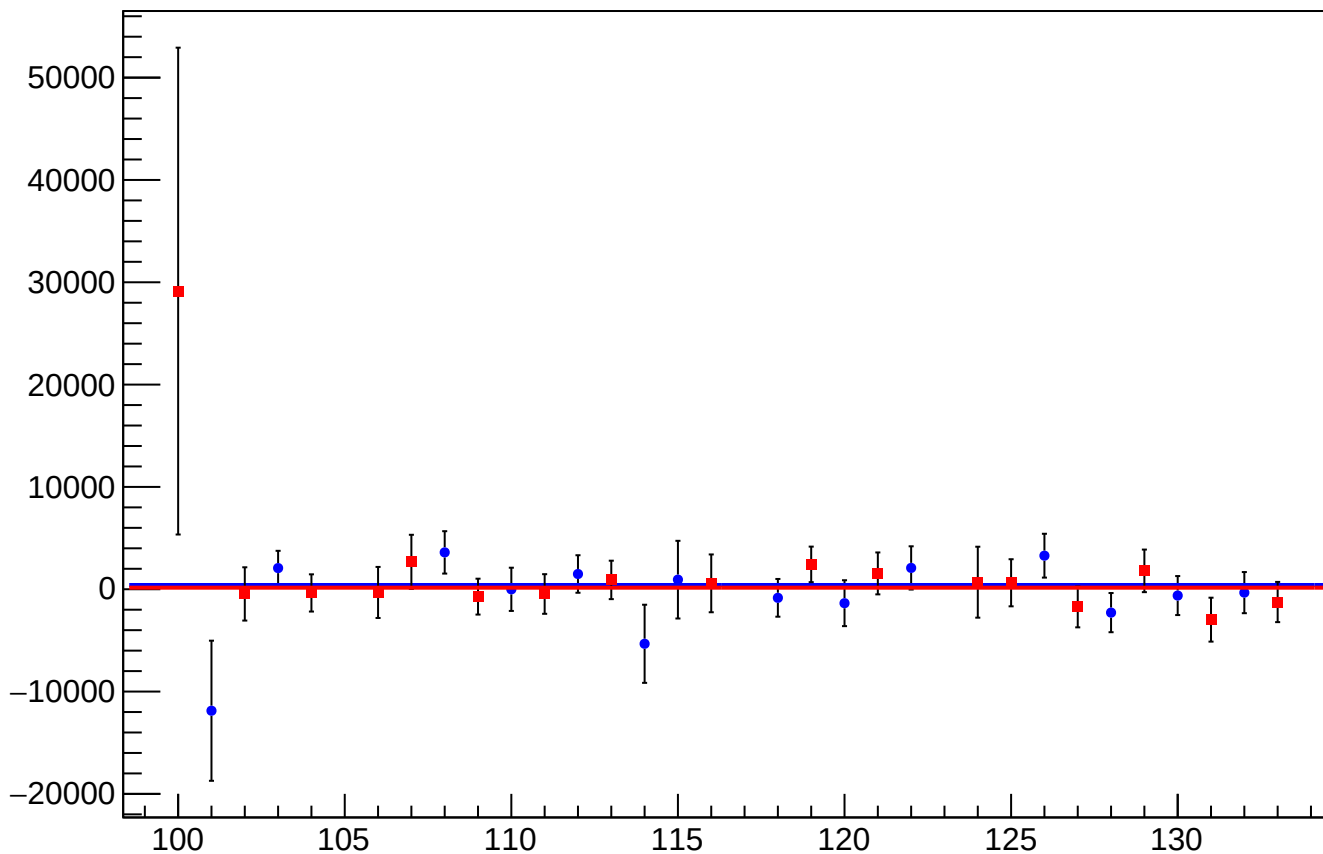
Right Out: 1048.607 $\pm$ 0.292  $\chi^2$ /NDF: 217011.4/16

All: 1040.901 $\pm$ 0.210  $\chi^2$ /NDF: 471308.8/30

- 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\_usr\_atr1\_dd\_mean vs Slug



Right In: 415.053 $\pm$ 577.749  $\chi^2$ /NDF: 15.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 152.492 $\pm$ 530.261  $\chi^2$ /NDF: 9.5/16

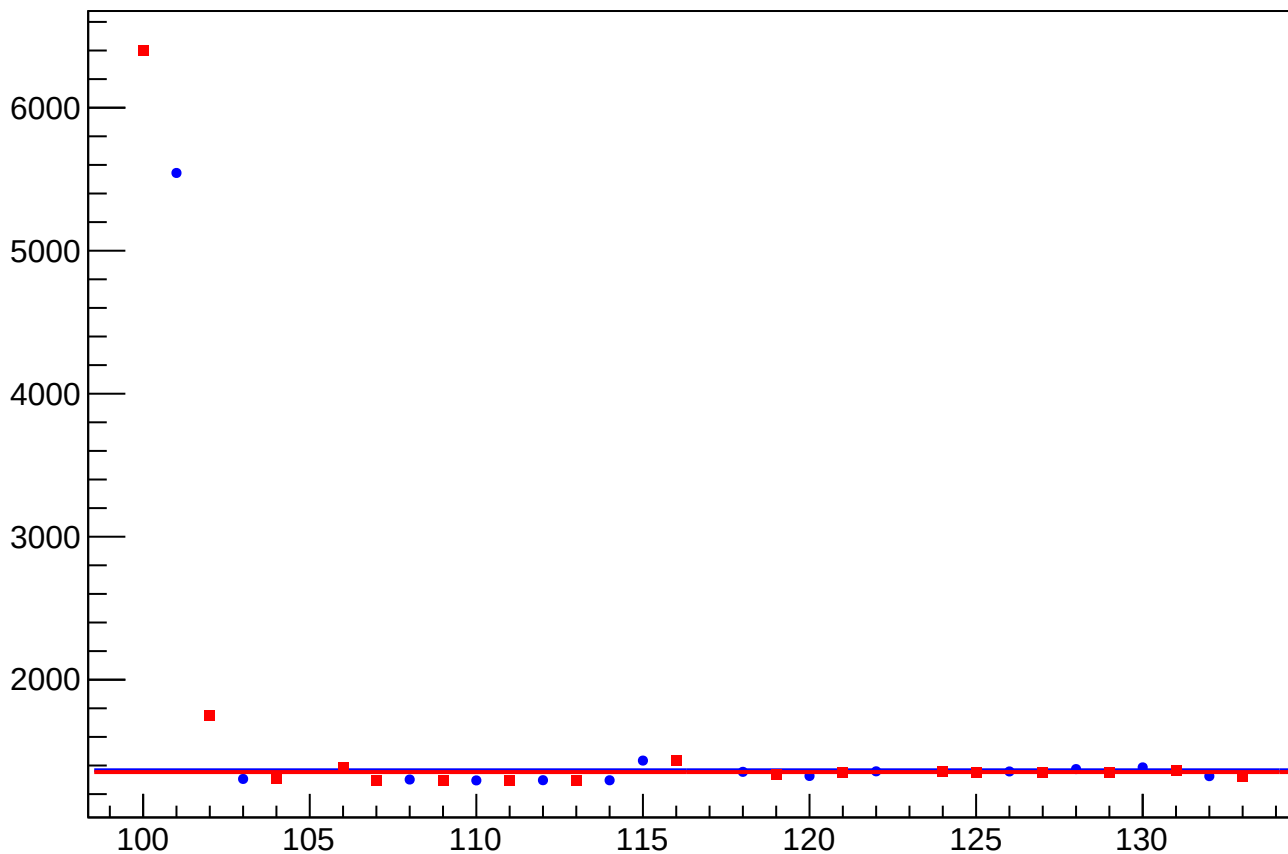
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 272.540 $\pm$ 390.663  $\chi^2$ /NDF: 24.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1366.453+/-0.409  $\chi^2/\text{NDF}$ : 757141.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1354.059+/-0.375  $\chi^2/\text{NDF}$ : 146936.3/16

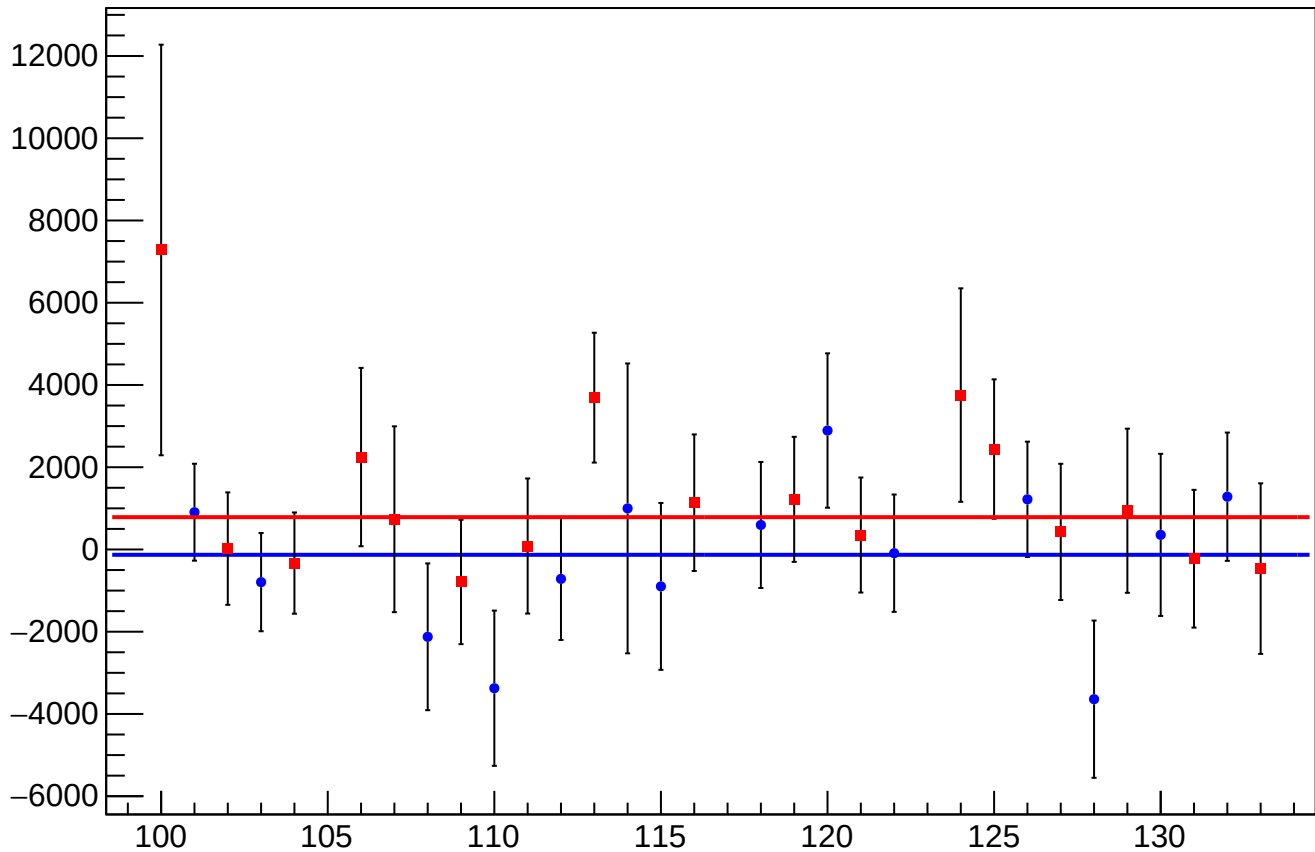
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1359.726+/-0.276  $\chi^2/\text{NDF}$ : 904576.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_cor\_correction\_mean vs Slug



Right In: -129.758+/-428.581  $\chi^2/\text{NDF}$ : 13.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 785.702+/-413.086  $\chi^2/\text{NDF}$ : 11.2/16

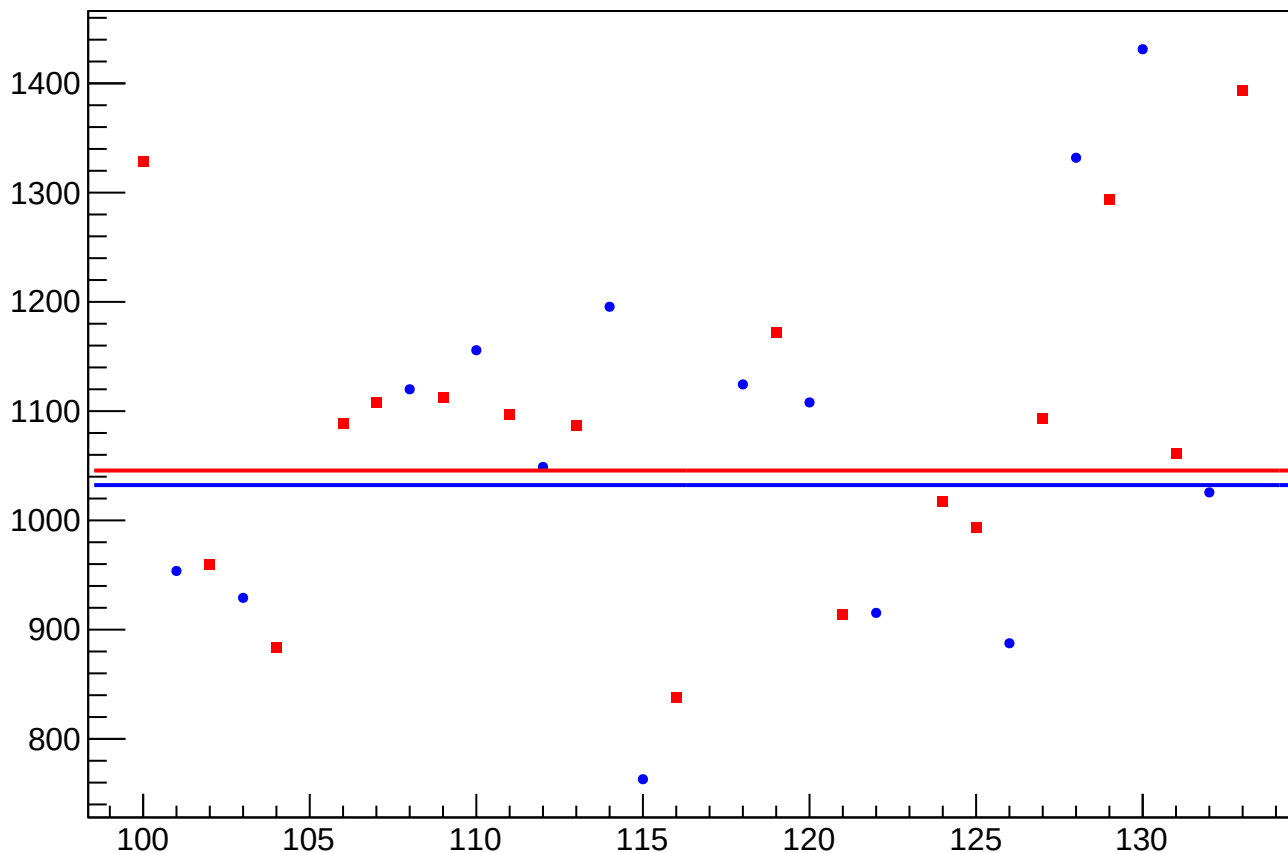
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 344.820+/-297.423  $\chi^2/\text{NDF}$ : 27.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_cor\_correction\_rms vs Slug



Right In: 1032.305 $\pm$ 0.303  $\chi^2$ /NDF: 253303.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1045.622 $\pm$ 0.292  $\chi^2$ /NDF: 212675.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

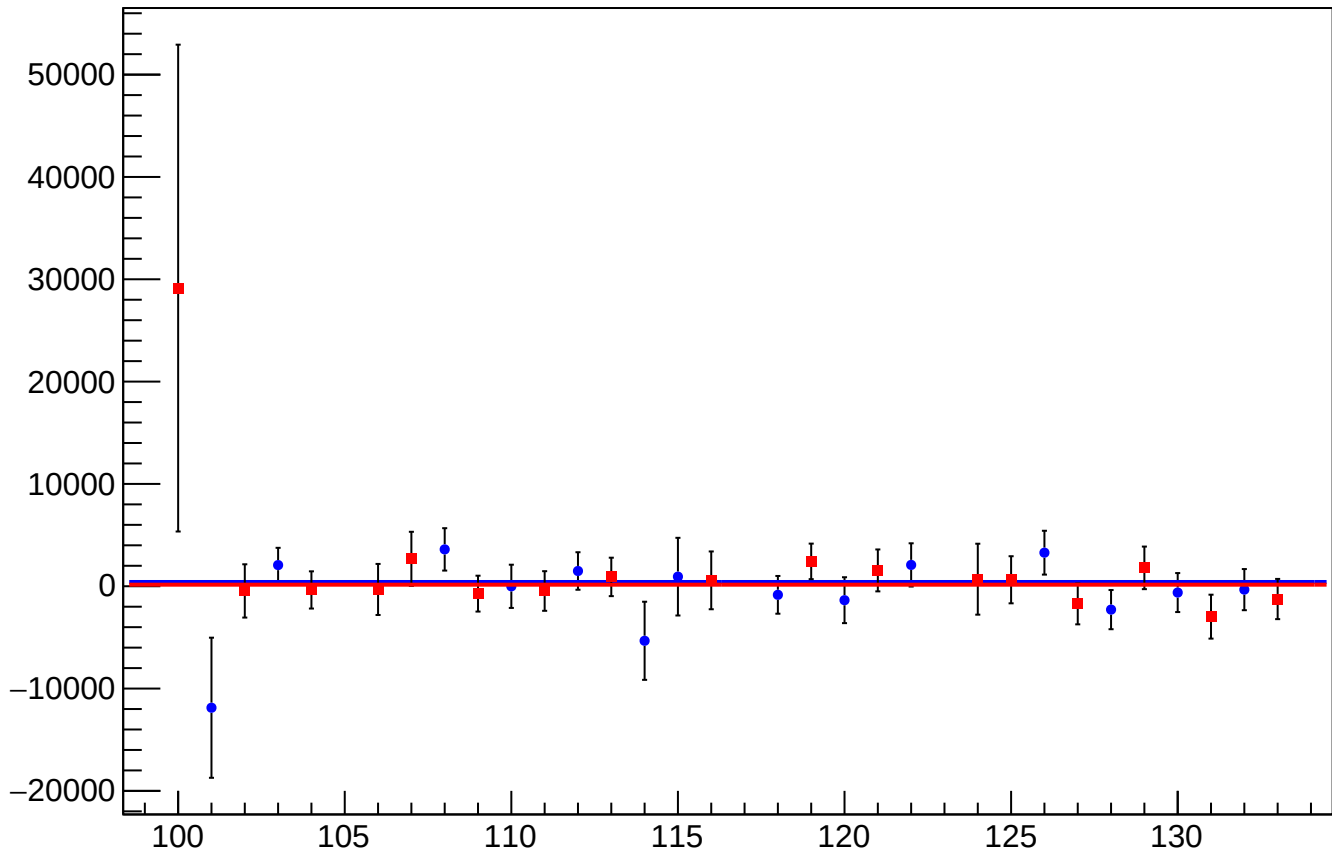
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1039.208 $\pm$ 0.210  $\chi^2$ /NDF: 466979.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_cor\_asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 415.053+/-577.749  $\chi^2/\text{NDF}$ : 15.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 152.492+/-530.261  $\chi^2/\text{NDF}$ : 9.5/16

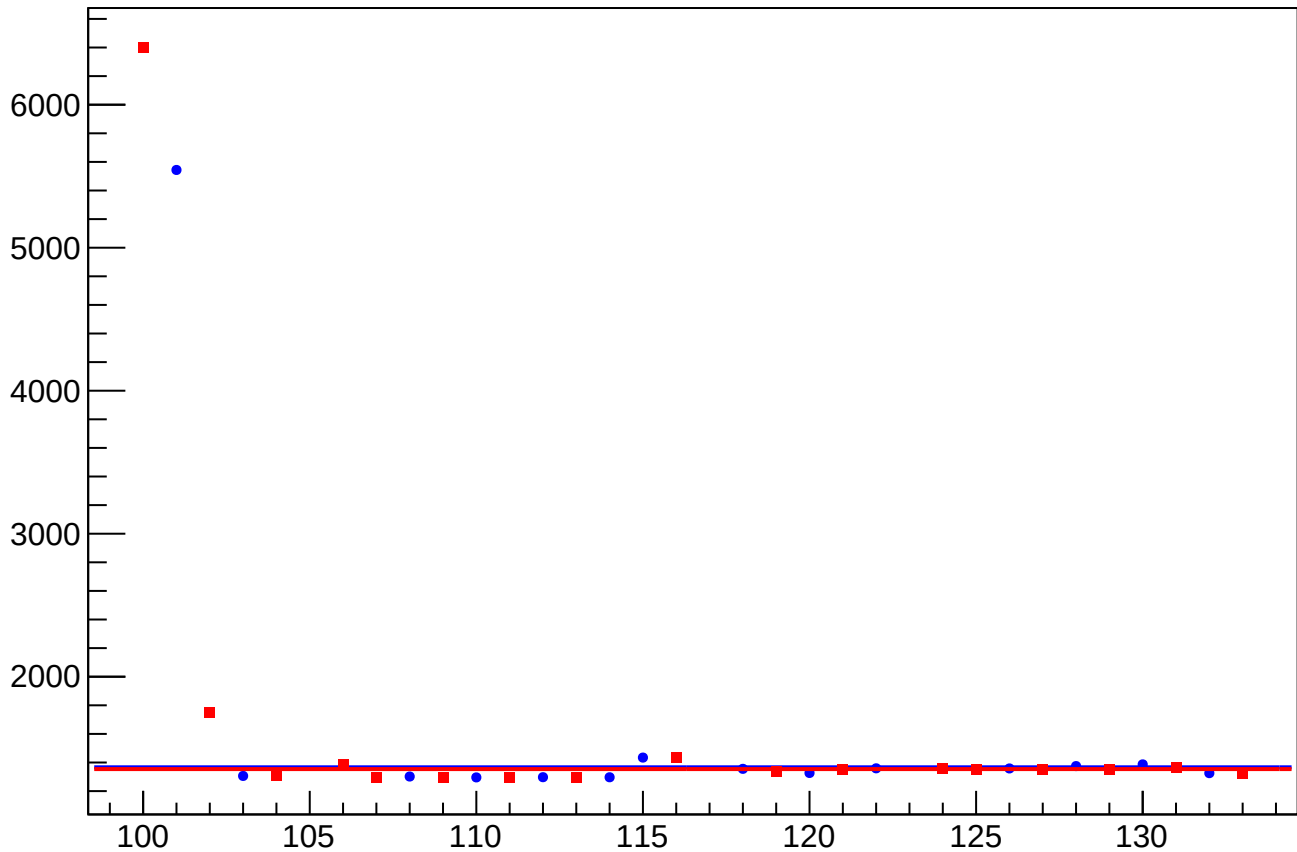
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 272.540+/-390.663  $\chi^2/\text{NDF}$ : 24.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1366.453+/-0.409  $\chi^2/\text{NDF}$ : 757141.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1354.059+/-0.375  $\chi^2/\text{NDF}$ : 146936.3/16

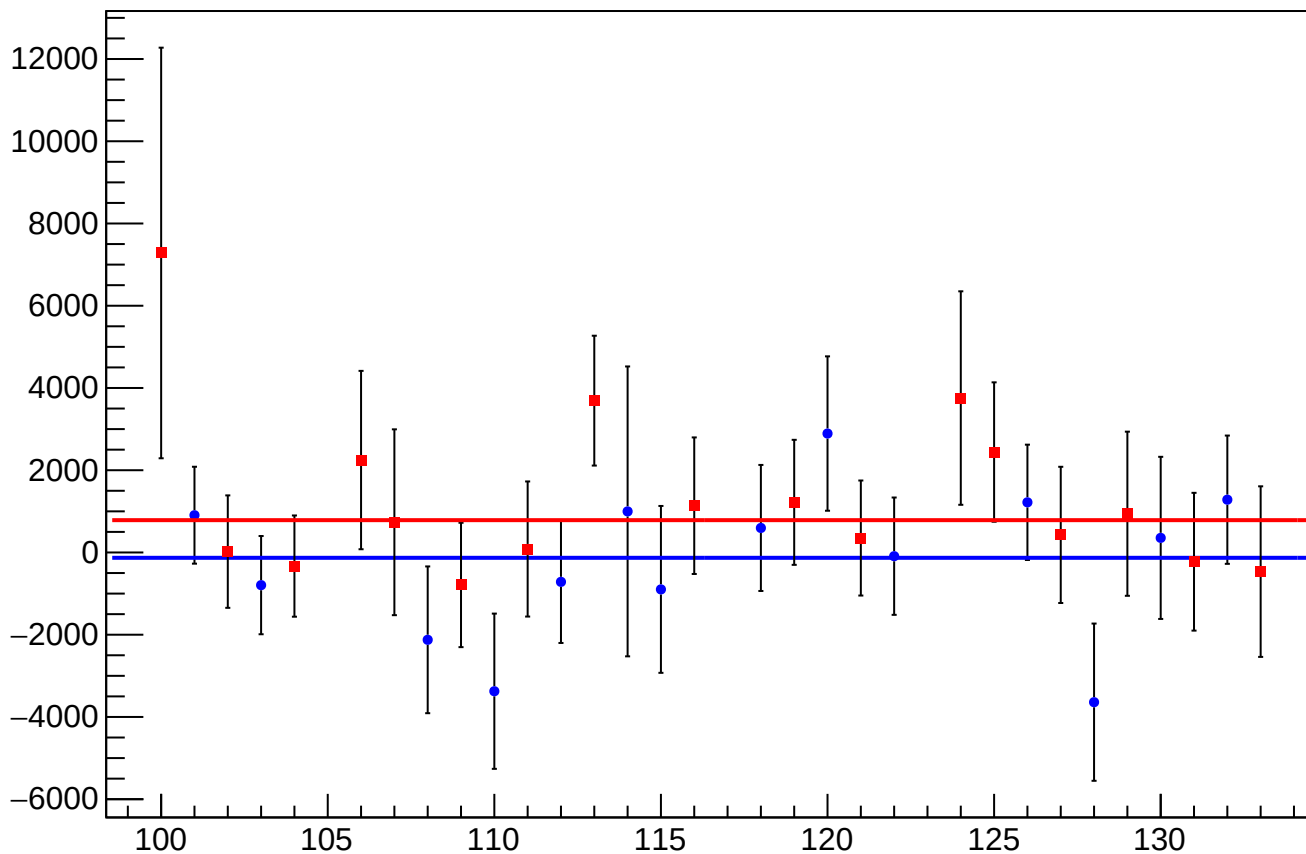
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1359.726+/-0.276  $\chi^2/\text{NDF}$ : 904576.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -129.758+/-428.581  $\chi^2/\text{NDF}$ : 13.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 785.702+/-413.086  $\chi^2/\text{NDF}$ : 11.2/16

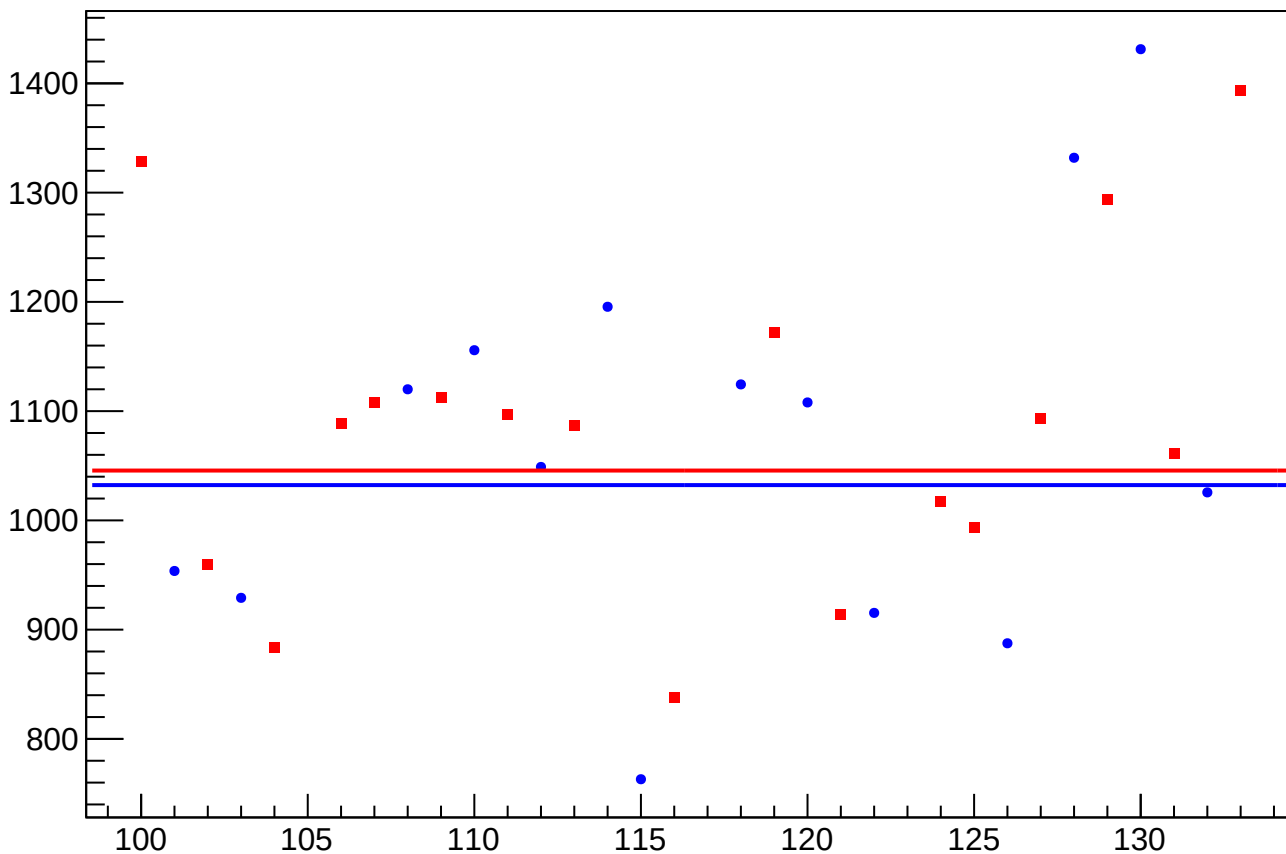
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 344.820+/-297.423  $\chi^2/\text{NDF}$ : 27.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1032.305 $\pm$ 0.303  $\chi^2$ /NDF: 253303.0/13

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

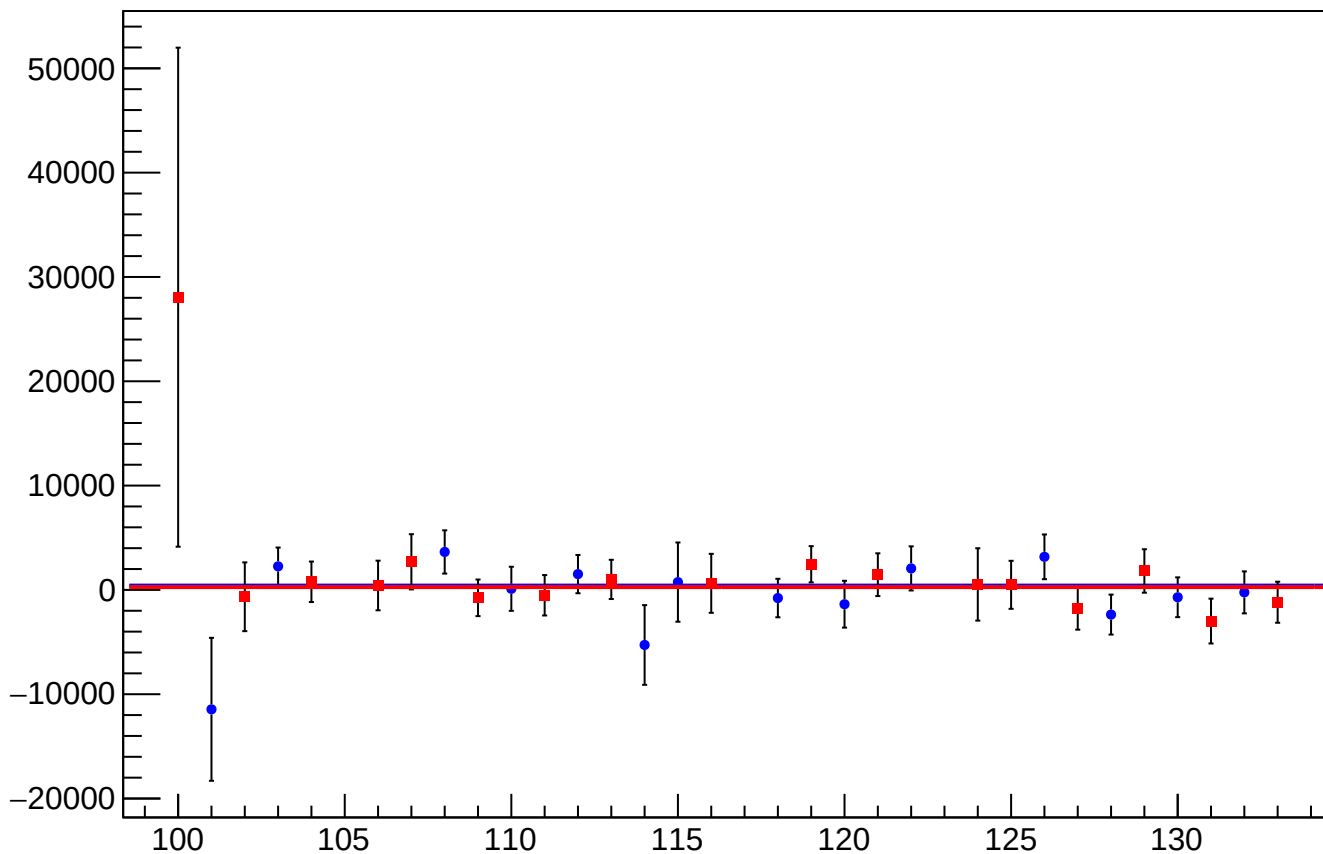
Right Out: 1045.622 $\pm$ 0.292  $\chi^2$ /NDF: 212675.9/16

All: 1039.208 $\pm$ 0.210  $\chi^2$ /NDF: 466979.8/30

- 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\_usr\_atr1\_dd\_mean vs Slug



Right In: 411.731+/-582.340  $\chi^2/\text{NDF}$ : 14.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 270.604+/-536.351  $\chi^2/\text{NDF}$ : 9.4/16

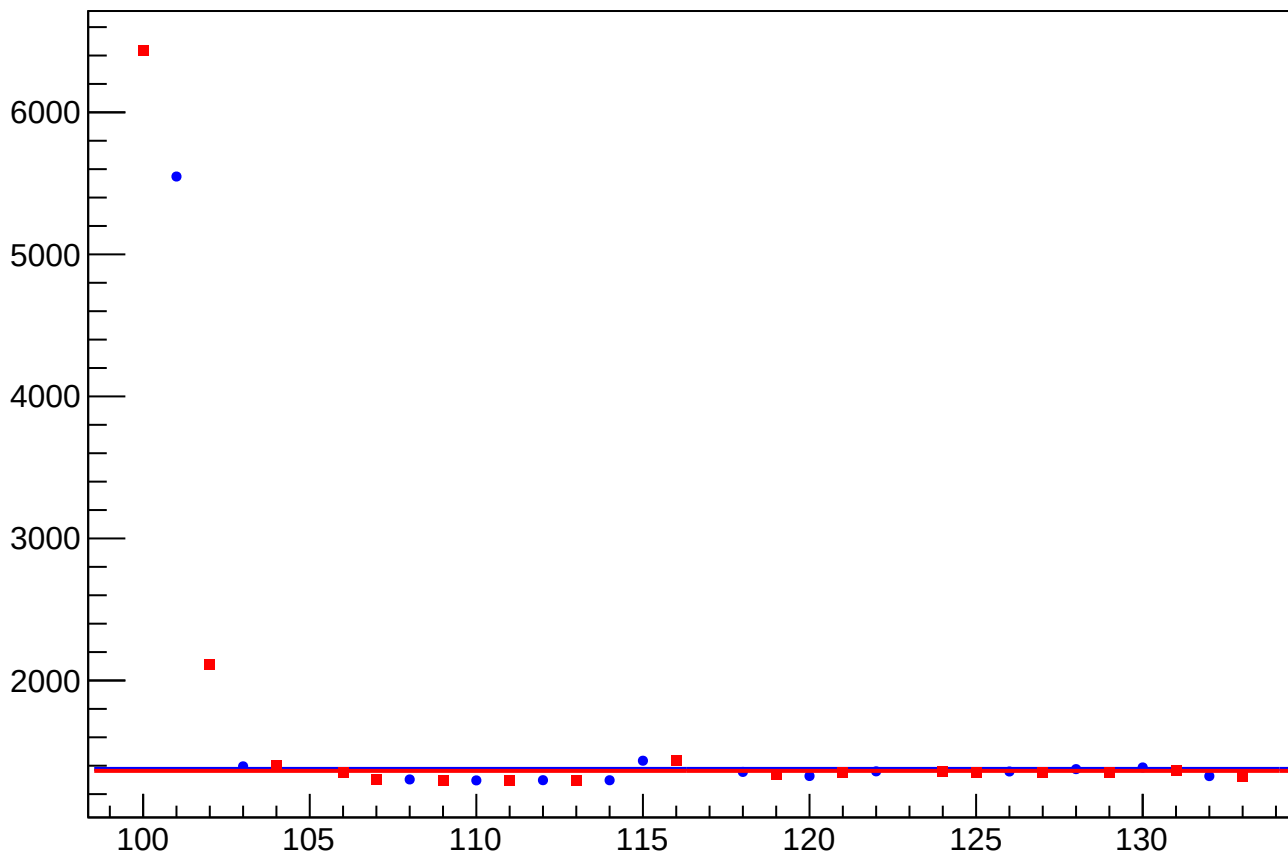
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 335.375+/-394.515  $\chi^2/\text{NDF}$ : 24.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1377.486 $\pm$ 0.412  $\chi^2$ /NDF: 754503.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1363.642 $\pm$ 0.379  $\chi^2$ /NDF: 204648.7/16

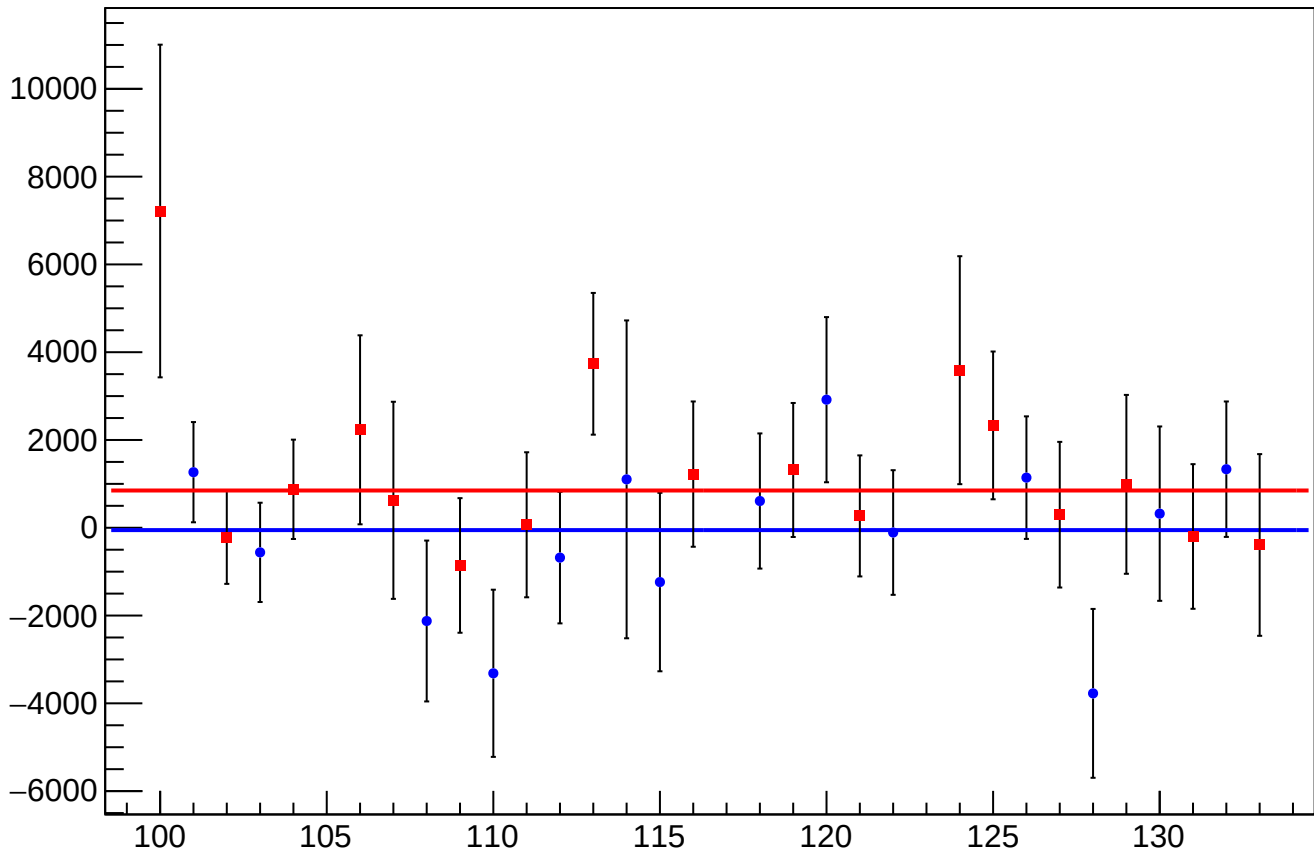
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1369.996 $\pm$ 0.279  $\chi^2$ /NDF: 959763.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr1\_dd\_dit\_correction\_mean vs Slug



Right In: -53.290 $\pm$ 424.754  $\chi^2$ /NDF: 14.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 849.098 $\pm$ 396.964  $\chi^2$ /NDF: 12.0/16

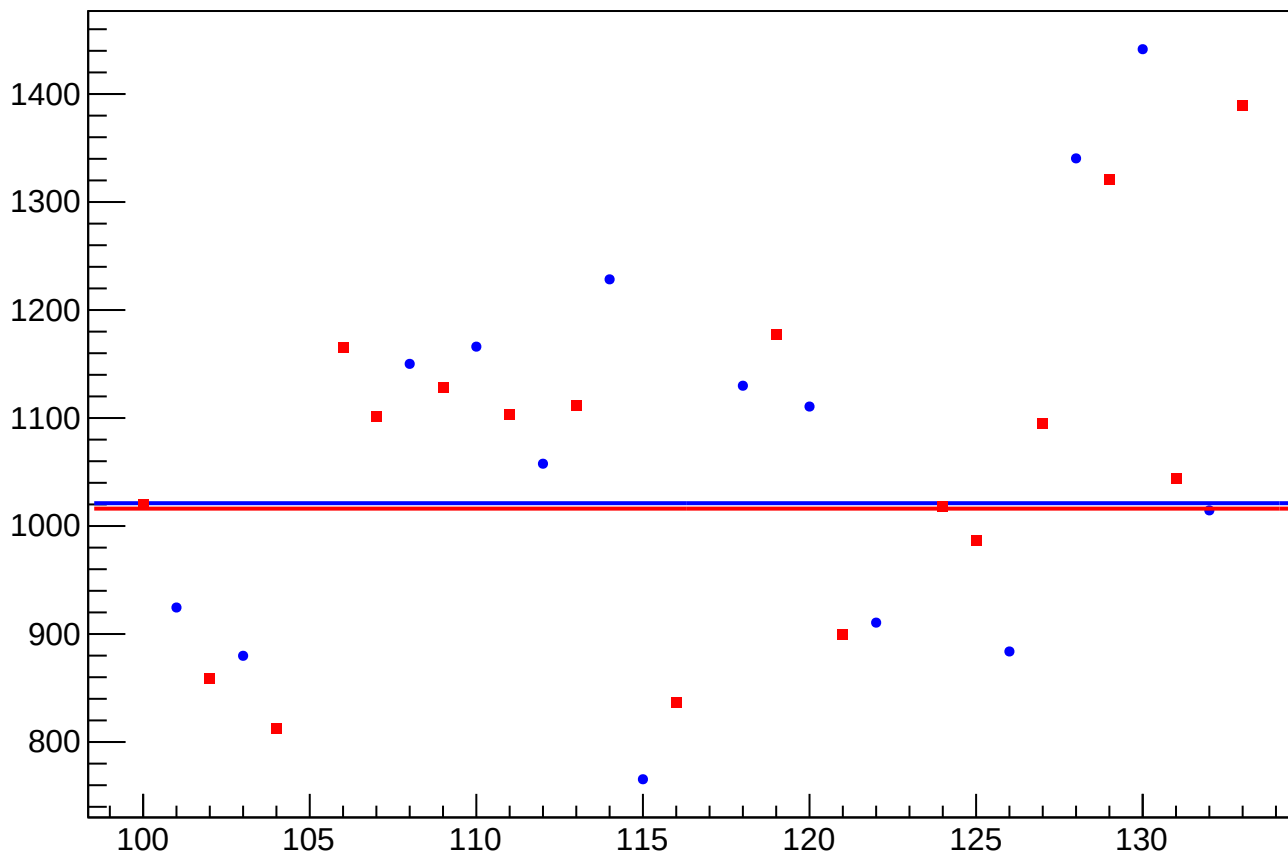
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 428.387 $\pm$ 290.023  $\chi^2$ /NDF: 28.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr1\_dd\_dit\_correction\_rms vs Slug



Right In: 1021.131 $\pm$ 0.300  $\chi^2$ /NDF: 297068.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1016.116 $\pm$ 0.281  $\chi^2$ /NDF: 319536.2/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

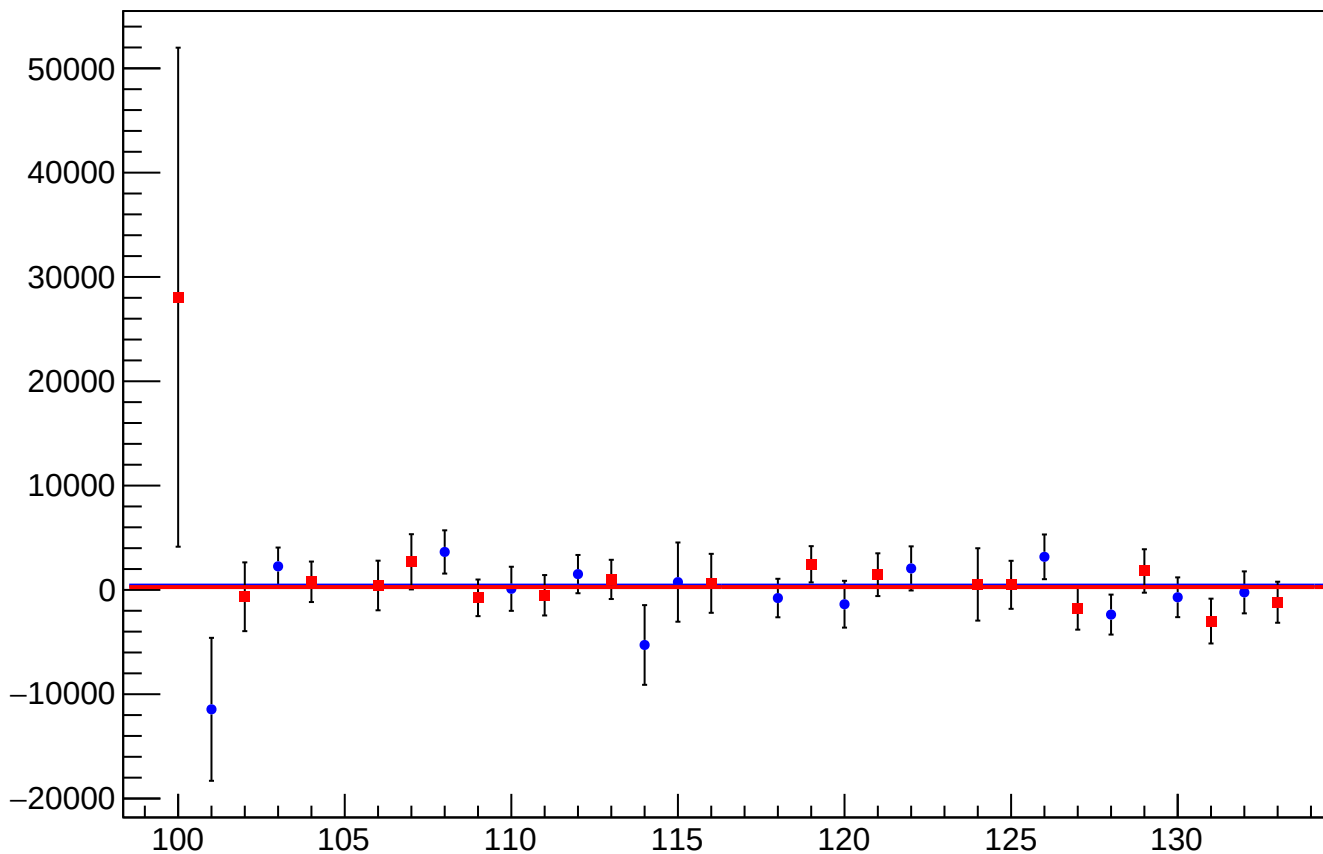
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1018.454 $\pm$ 0.205  $\chi^2$ /NDF: 616753.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# eigen\_dit\_asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 411.733+/-582.340  $\chi^2/\text{NDF}$ : 14.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 270.602+/-536.351  $\chi^2/\text{NDF}$ : 9.4/16

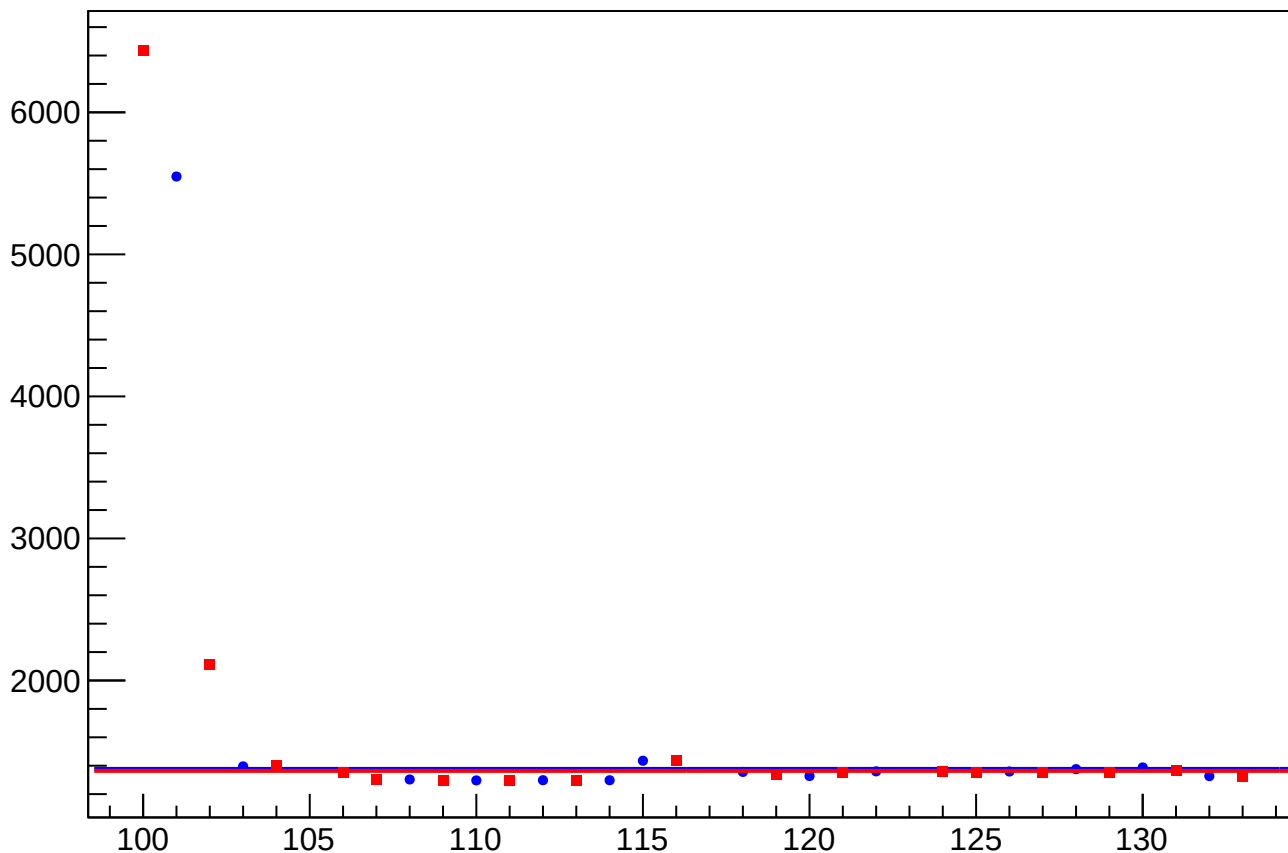
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 335.375+/-394.515  $\chi^2/\text{NDF}$ : 24.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1377.486 $\pm$ 0.412  $\chi^2$ /NDF: 754503.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1363.642 $\pm$ 0.379  $\chi^2$ /NDF: 204648.6/16

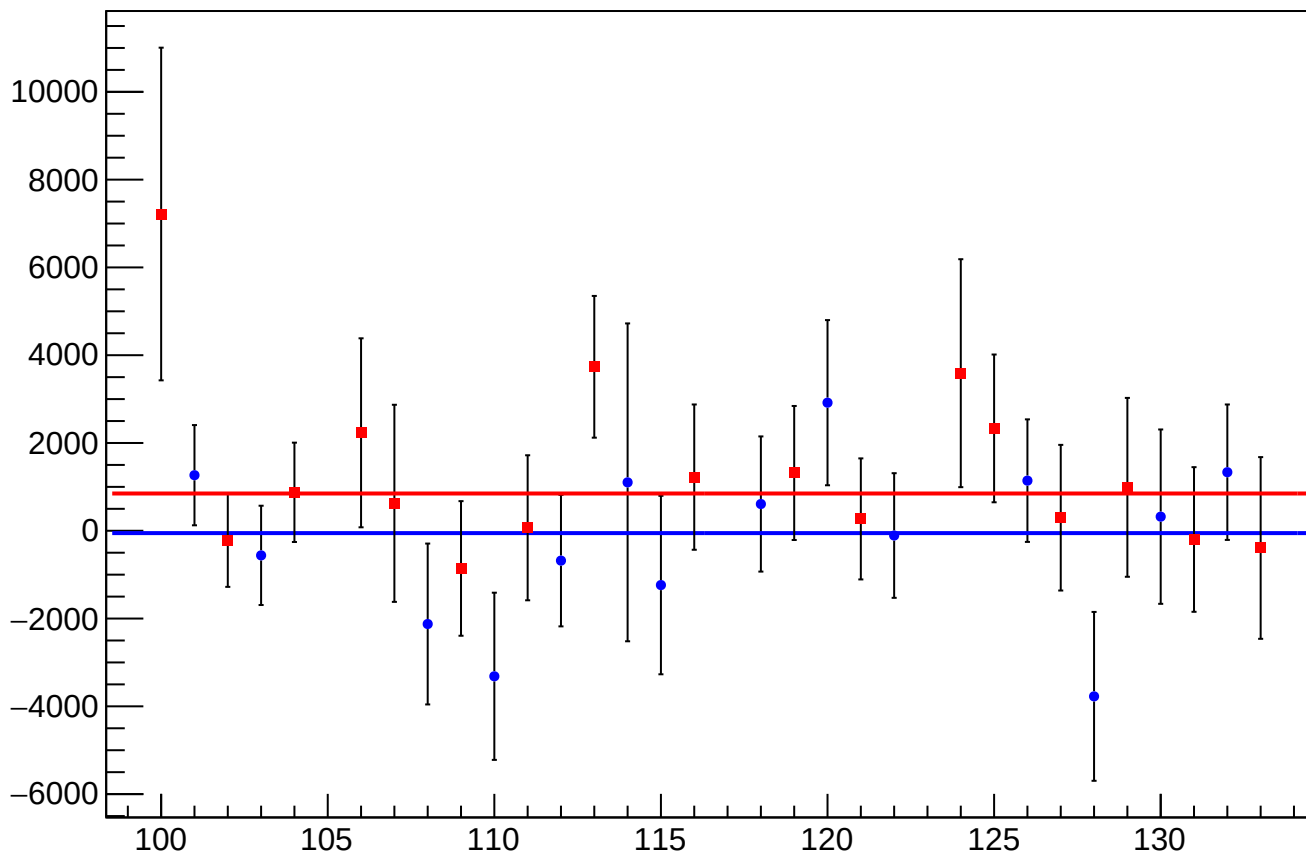
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1369.996 $\pm$ 0.279  $\chi^2$ /NDF: 959763.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In:  $-53.291 \pm 424.753$   $\chi^2/\text{NDF}$ : 14.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $849.097 \pm 396.964$   $\chi^2/\text{NDF}$ : 12.0/16

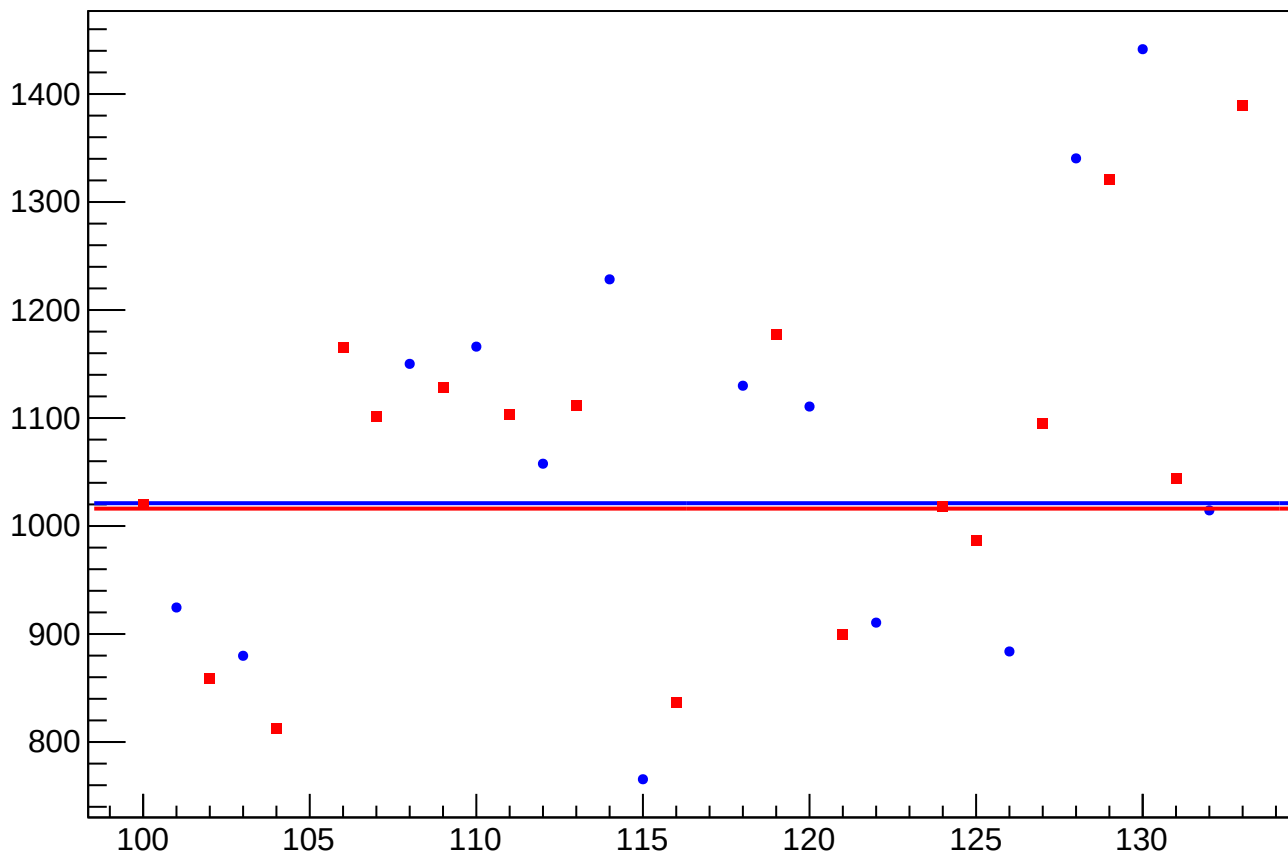
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $428.386 \pm 290.023$   $\chi^2/\text{NDF}$ : 28.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1021.129+/-0.300  $\chi^2/\text{NDF}$ : 297062.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1016.115+/-0.281  $\chi^2/\text{NDF}$ : 319529.8/16

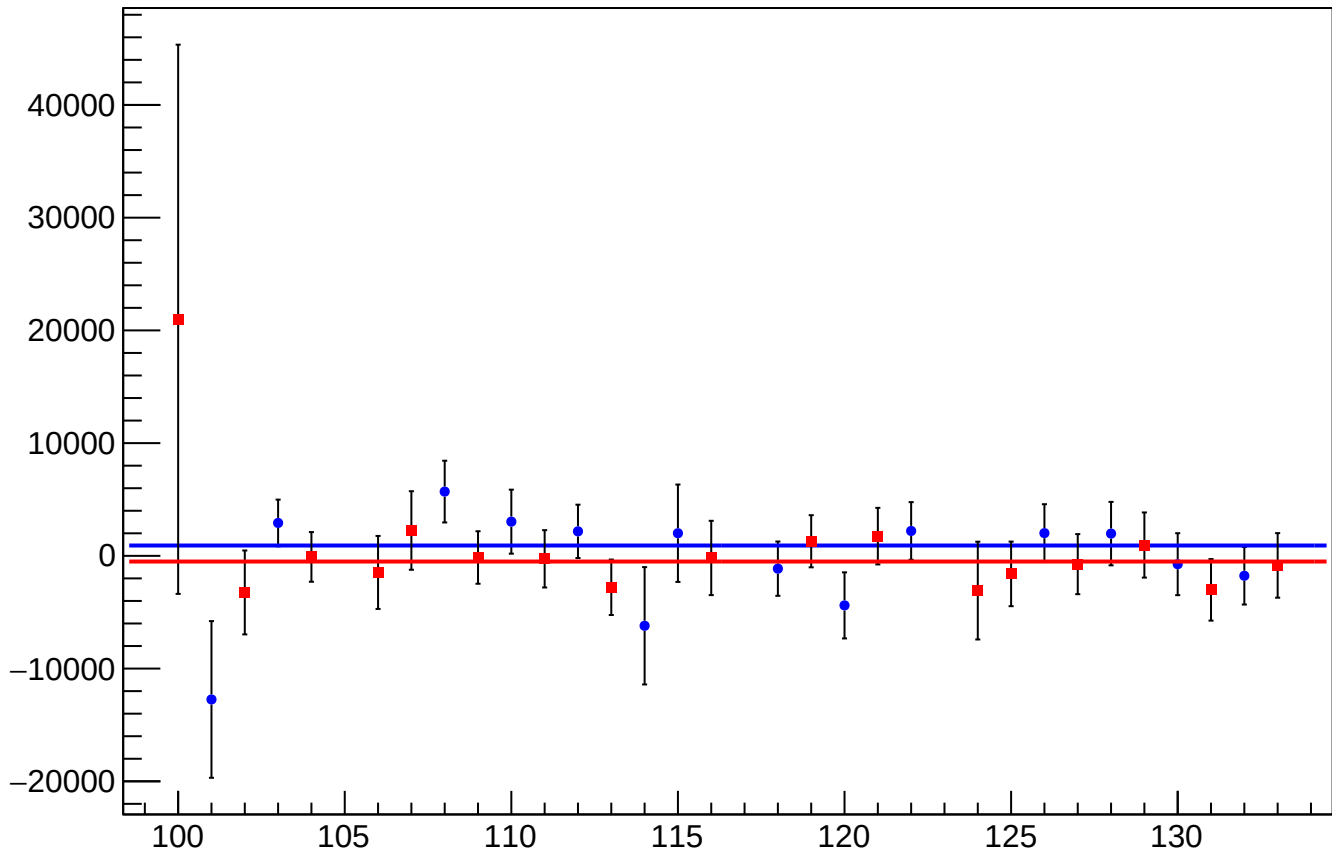
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1018.453+/-0.205  $\chi^2/\text{NDF}$ : 616740.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_mean vs Slug



Right In: 916.759+/-748.116  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -504.212+/-691.421  $\chi^2/\text{NDF}$ : 6.0/16

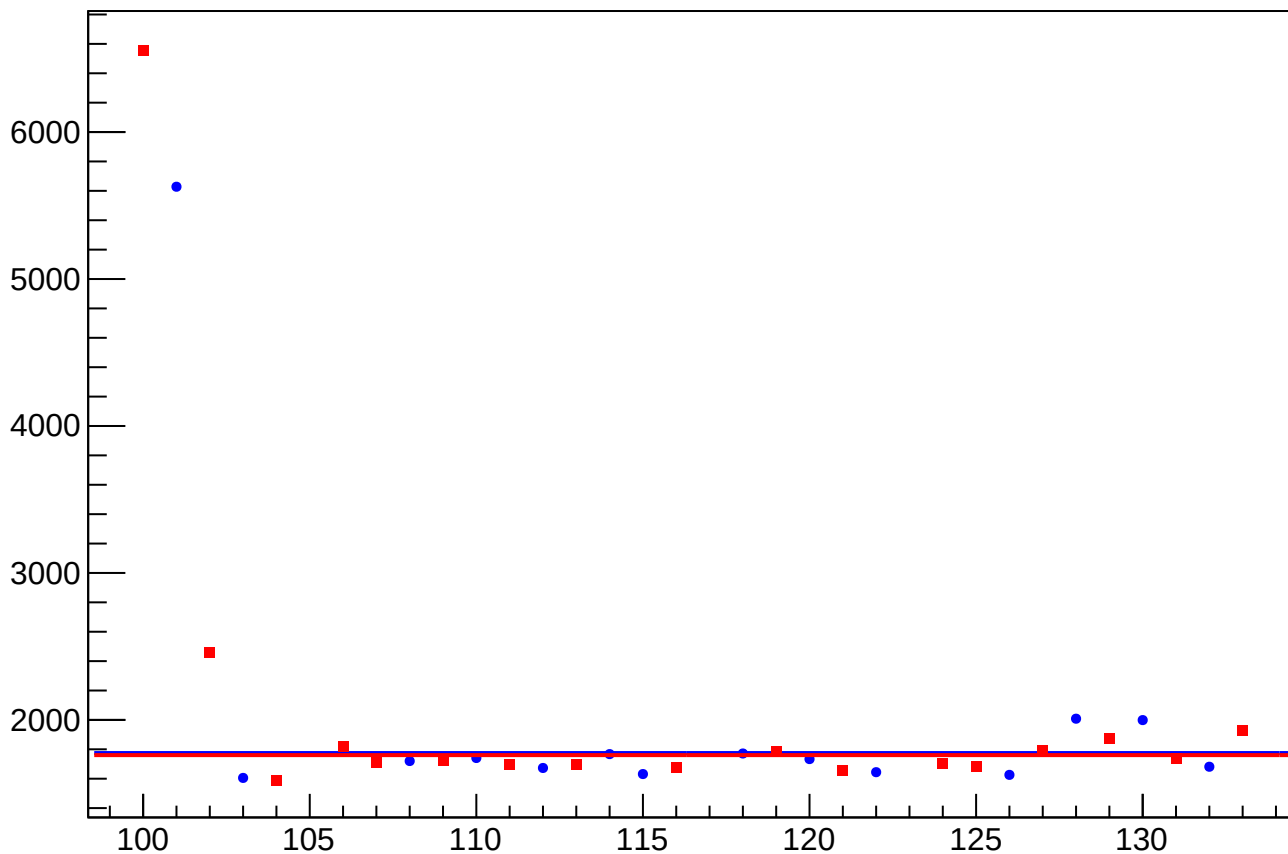
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 150.396+/-507.770  $\chi^2/\text{NDF}$ : 24.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr1\_dd\_rms vs Slug



Right In: 1774.507 $\pm$ 0.529  $\chi^2$ /NDF: 677110.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1760.450 $\pm$ 0.489  $\chi^2$ /NDF: 181601.0/16

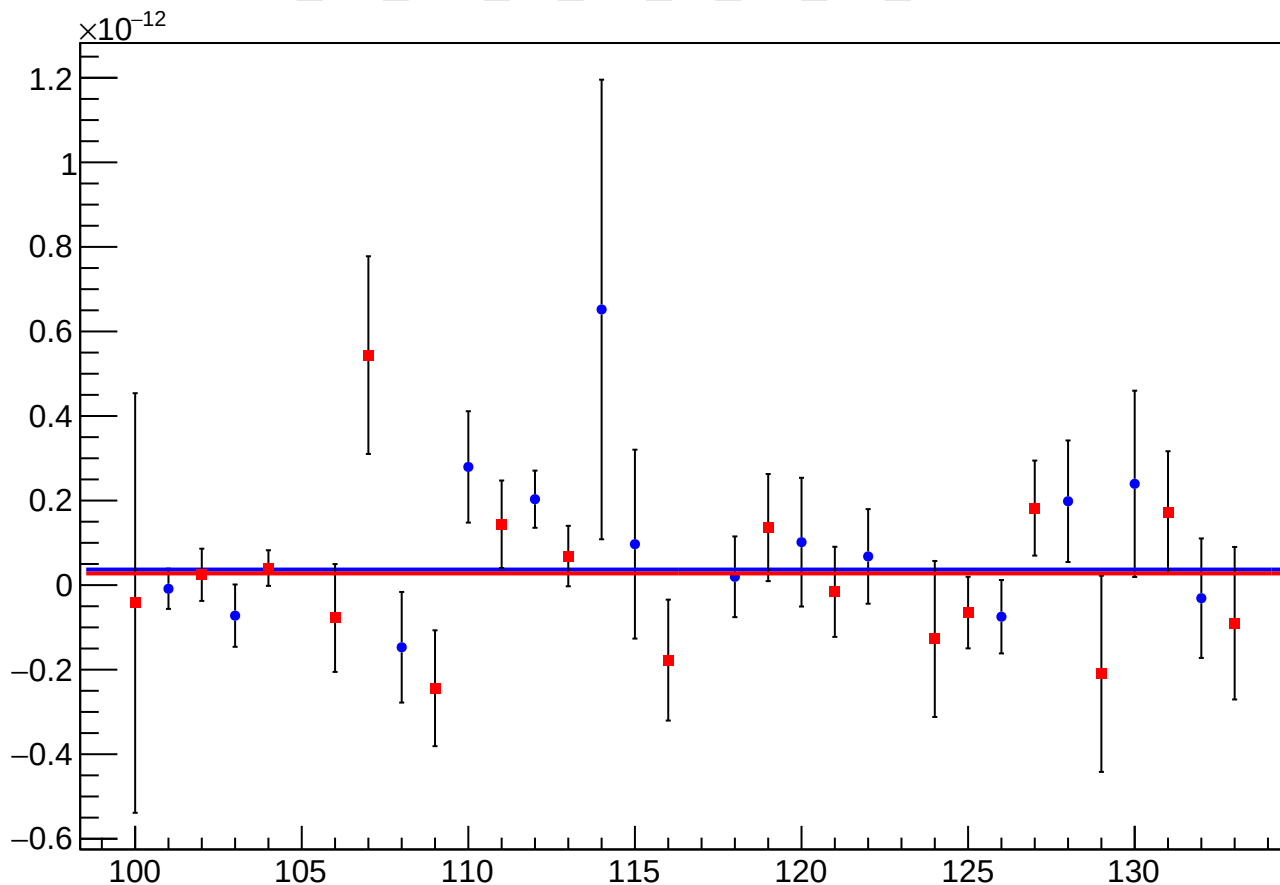
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1766.926 $\pm$ 0.359  $\chi^2$ /NDF: 859092.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.4/16

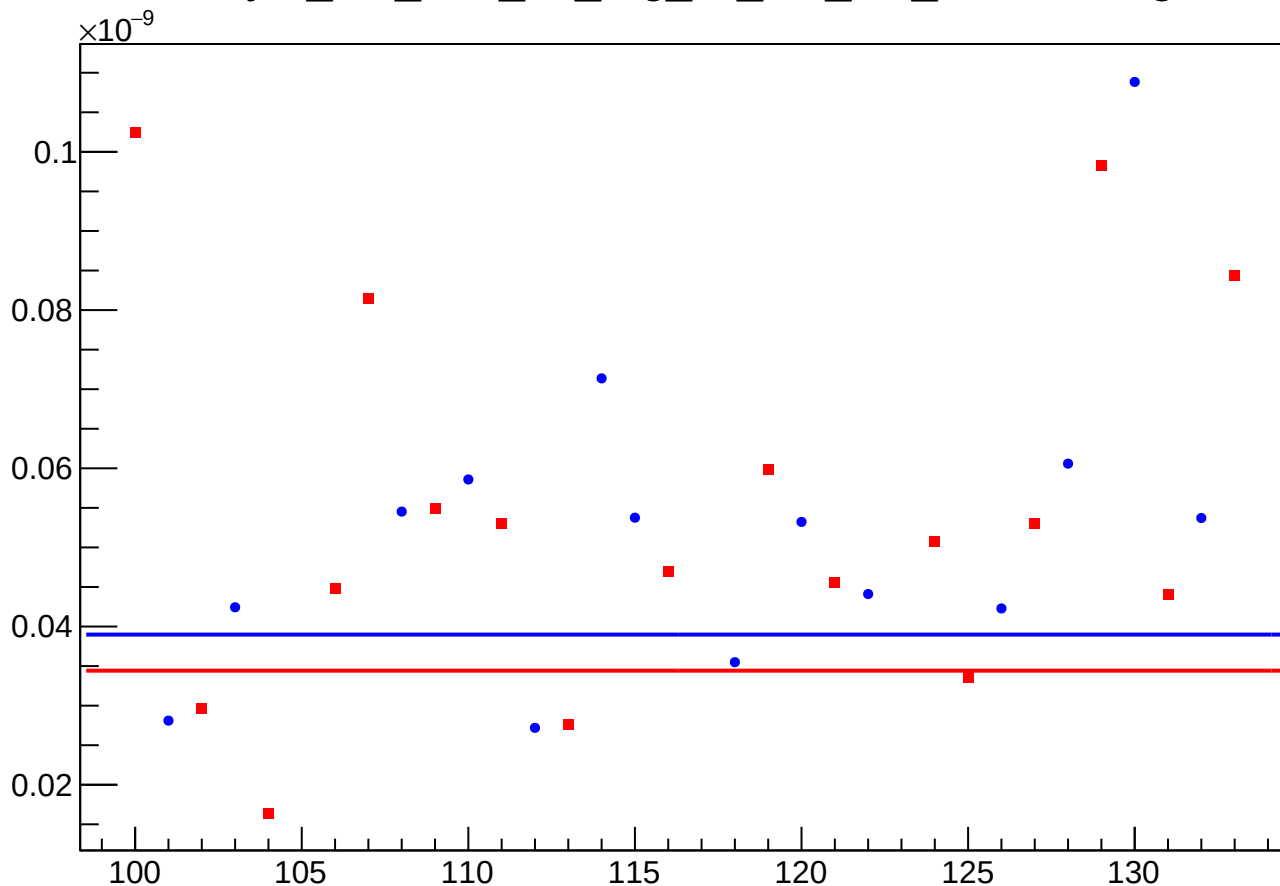
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 40.6/30

- 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  $\chi^2/\text{NDF}$ : 553444.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1141331.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

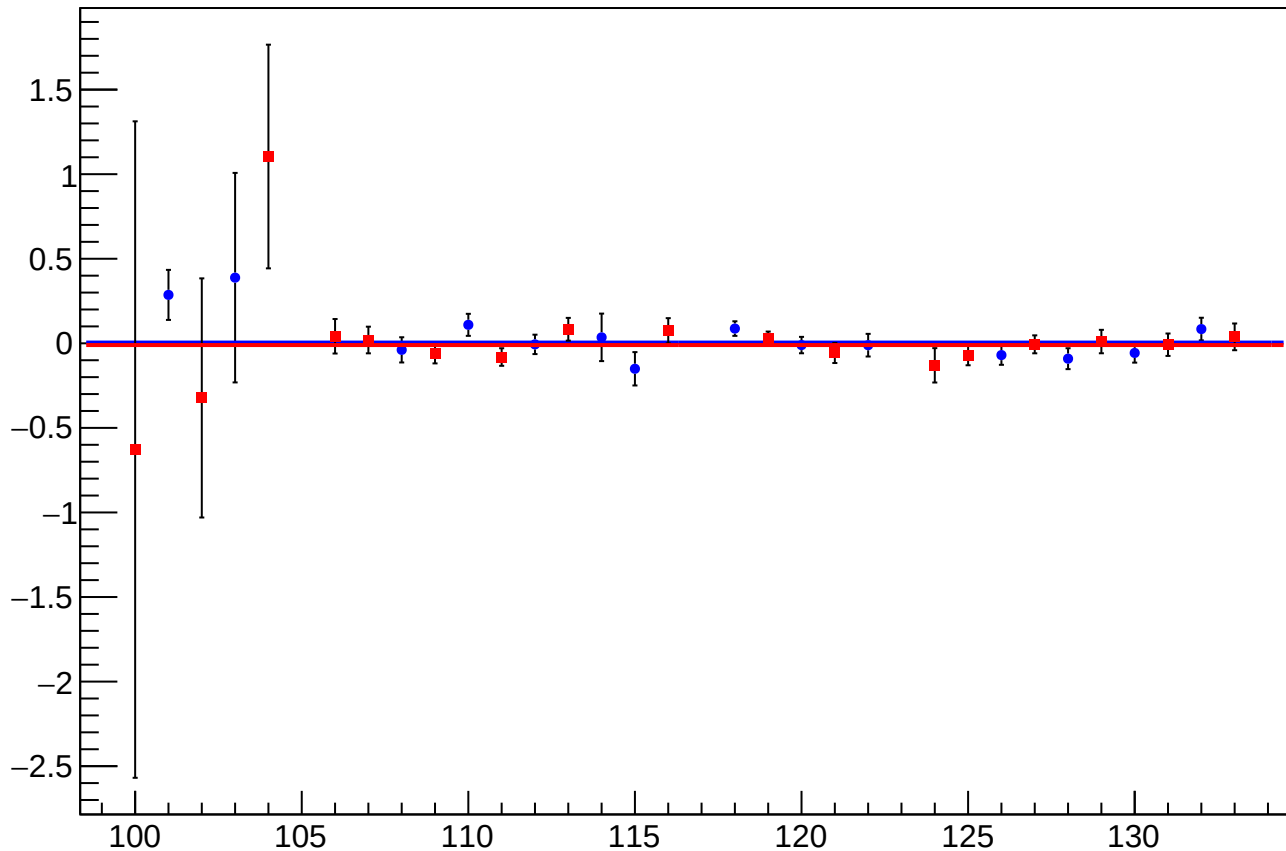
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1728371.5/30

- 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: 0.004+/-0.018  $\chi^2/\text{NDF}$ : 19.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.010+/-0.017  $\chi^2/\text{NDF}$ : 13.7/16

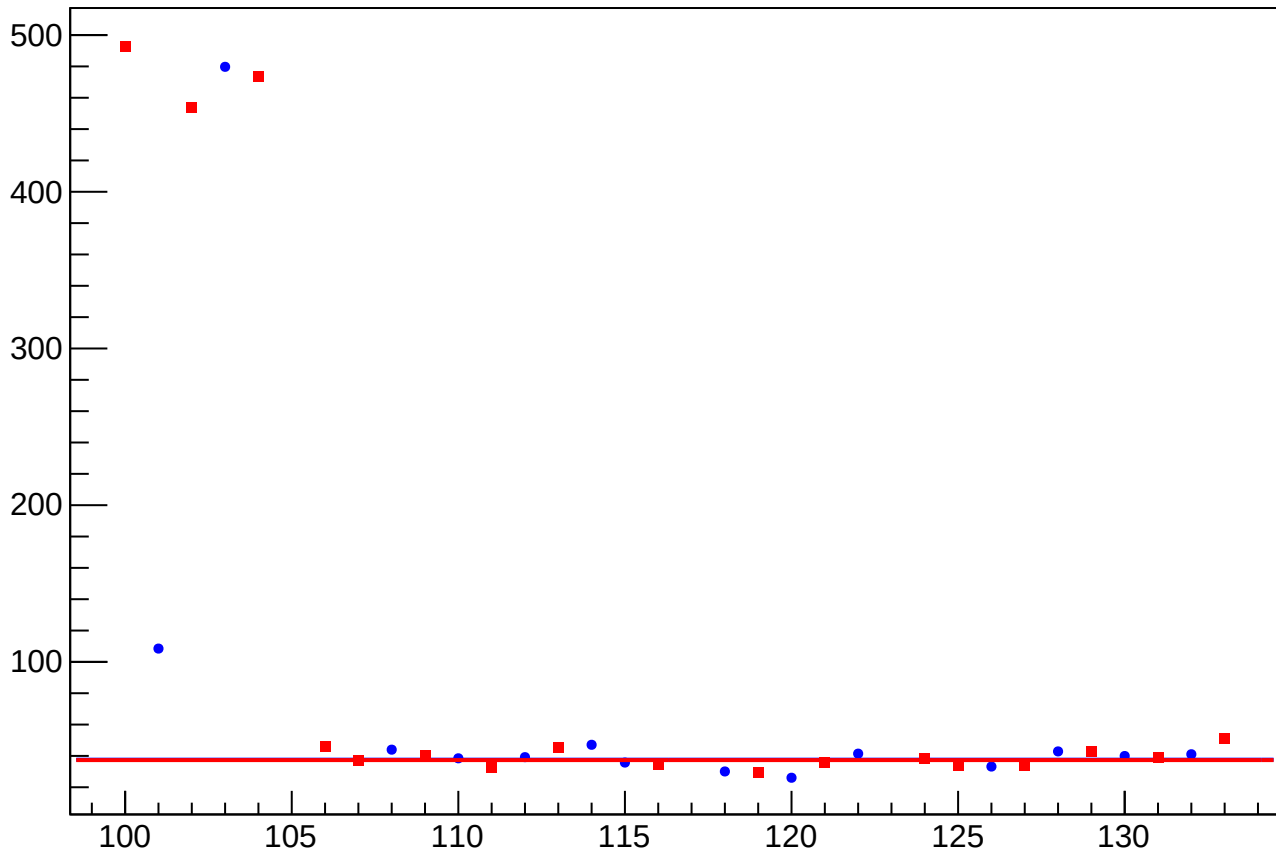
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.003+/-0.012  $\chi^2/\text{NDF}$ : 34.0/30

- 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: 37.593+/-0.012  $\chi^2/\text{NDF}$ : 1720587.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.331+/-0.012  $\chi^2/\text{NDF}$ : 1899984.1/16

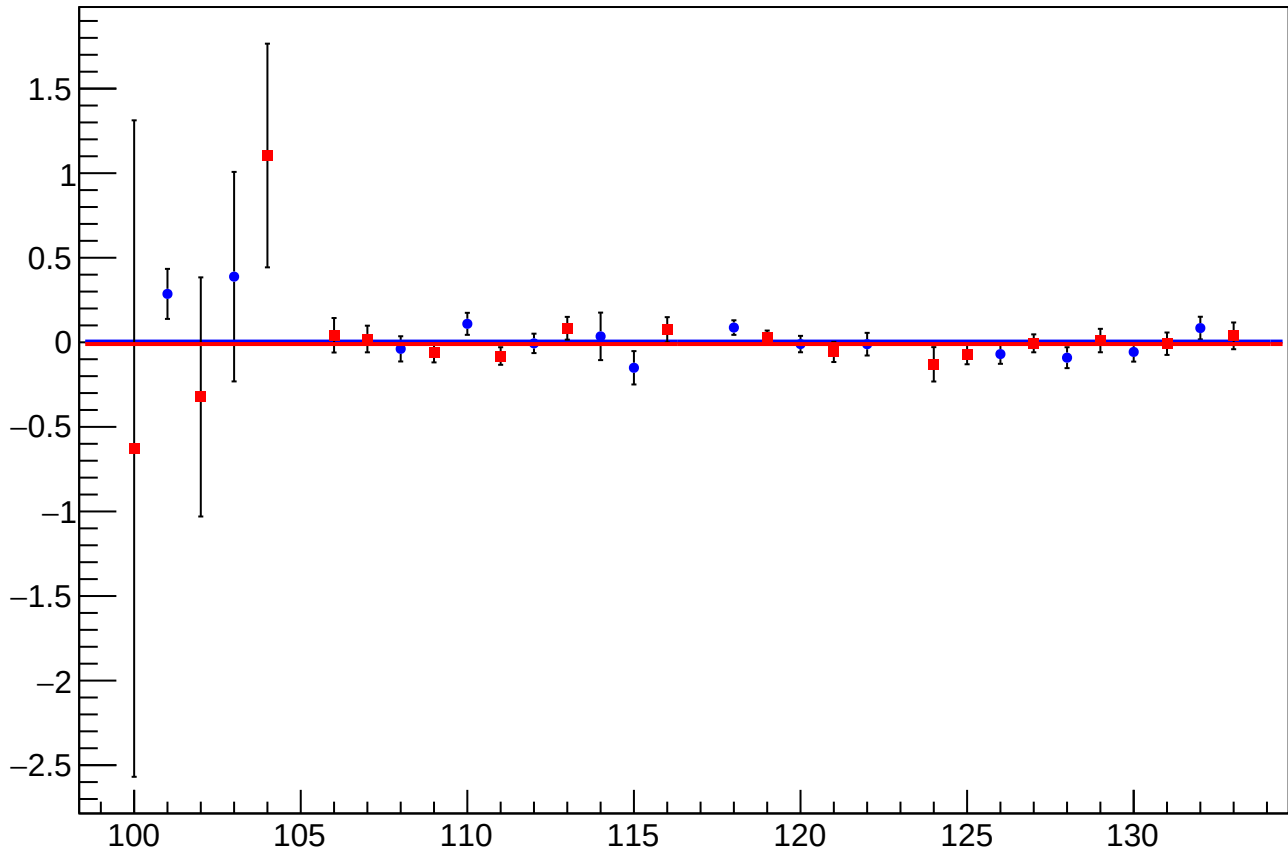
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.456+/-0.009  $\chi^2/\text{NDF}$ : 3620801.4/30

- 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: 0.004 $\pm$ 0.018  $\chi^2$ /NDF: 19.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.010 $\pm$ 0.017  $\chi^2$ /NDF: 13.7/16

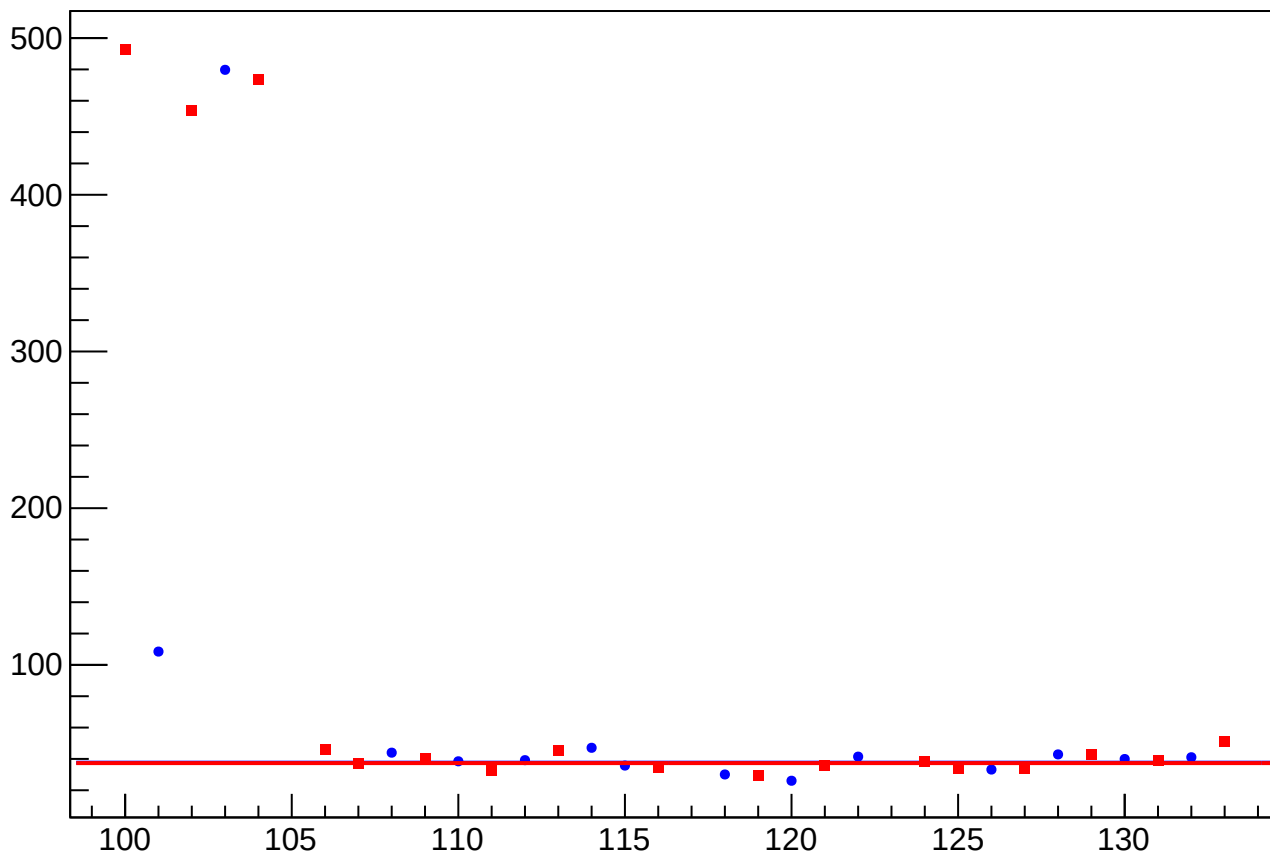
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.012  $\chi^2$ /NDF: 34.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 37.593+/-0.012  $\chi^2/\text{NDF}$ : 1720587.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.331+/-0.012  $\chi^2/\text{NDF}$ : 1899984.1/16

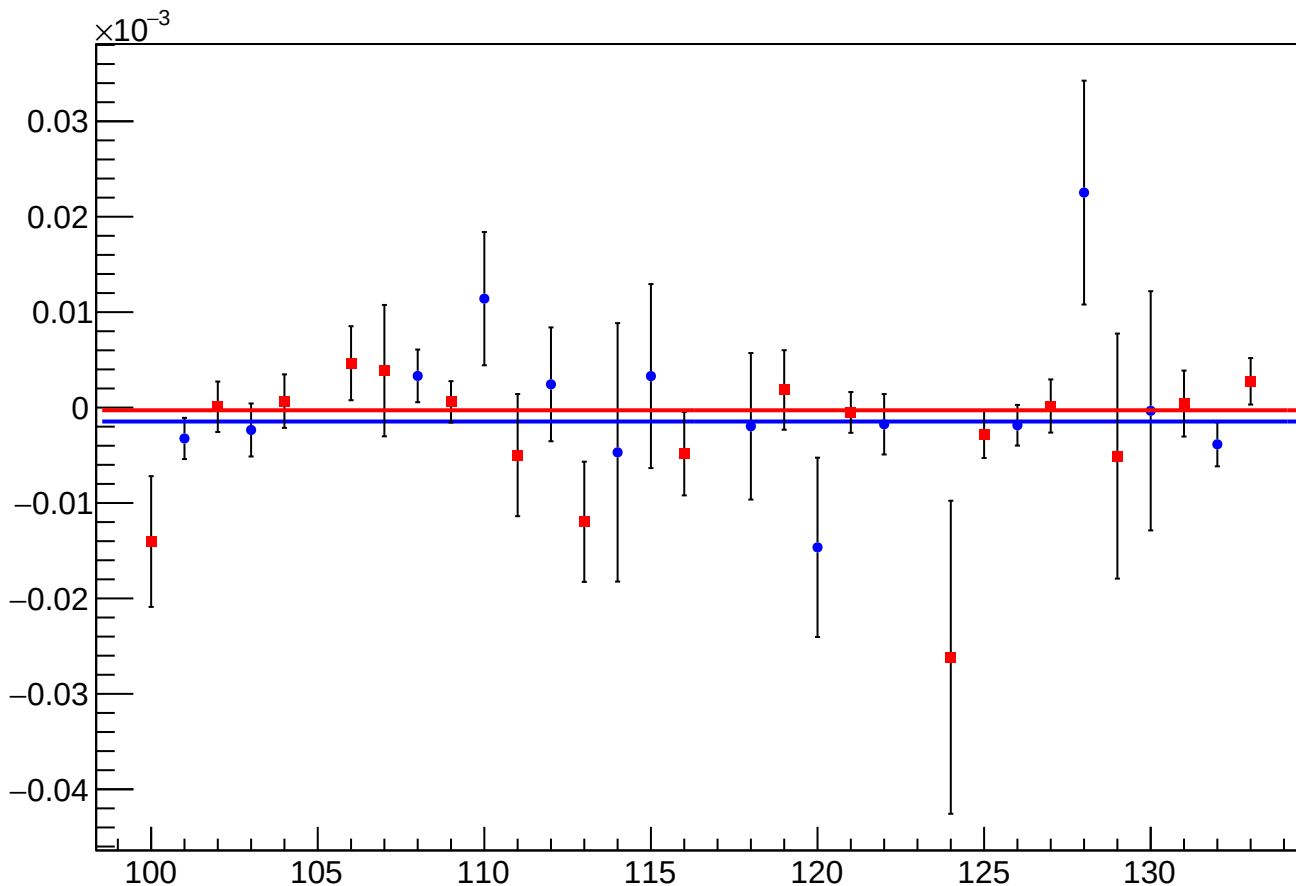
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.456+/-0.009  $\chi^2/\text{NDF}$ : 3620801.4/30

- 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 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 15.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 17.0/16

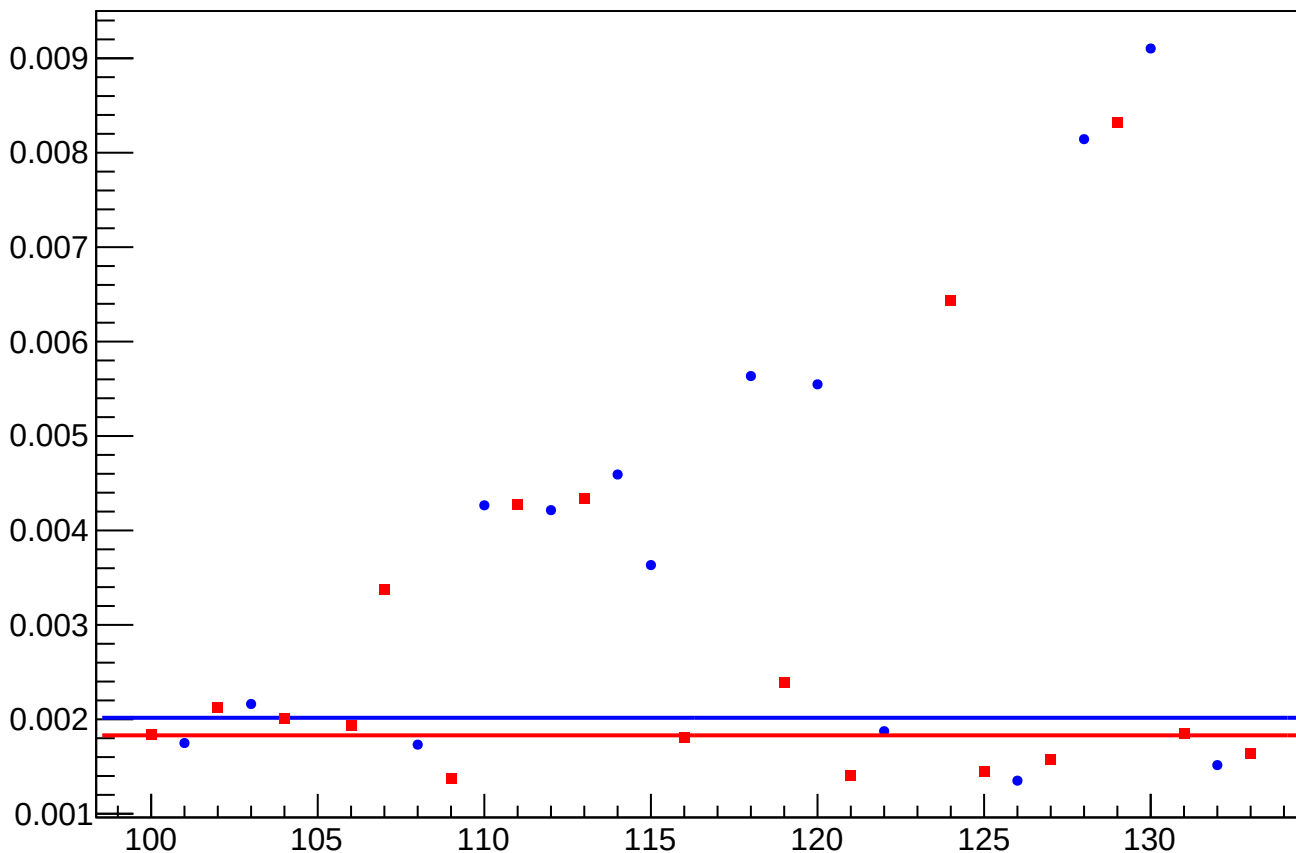
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 33.0/30

- sign 0.000 $\pm$ 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  $\chi^2/\text{NDF}$ : 2870299.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1695706.4/16

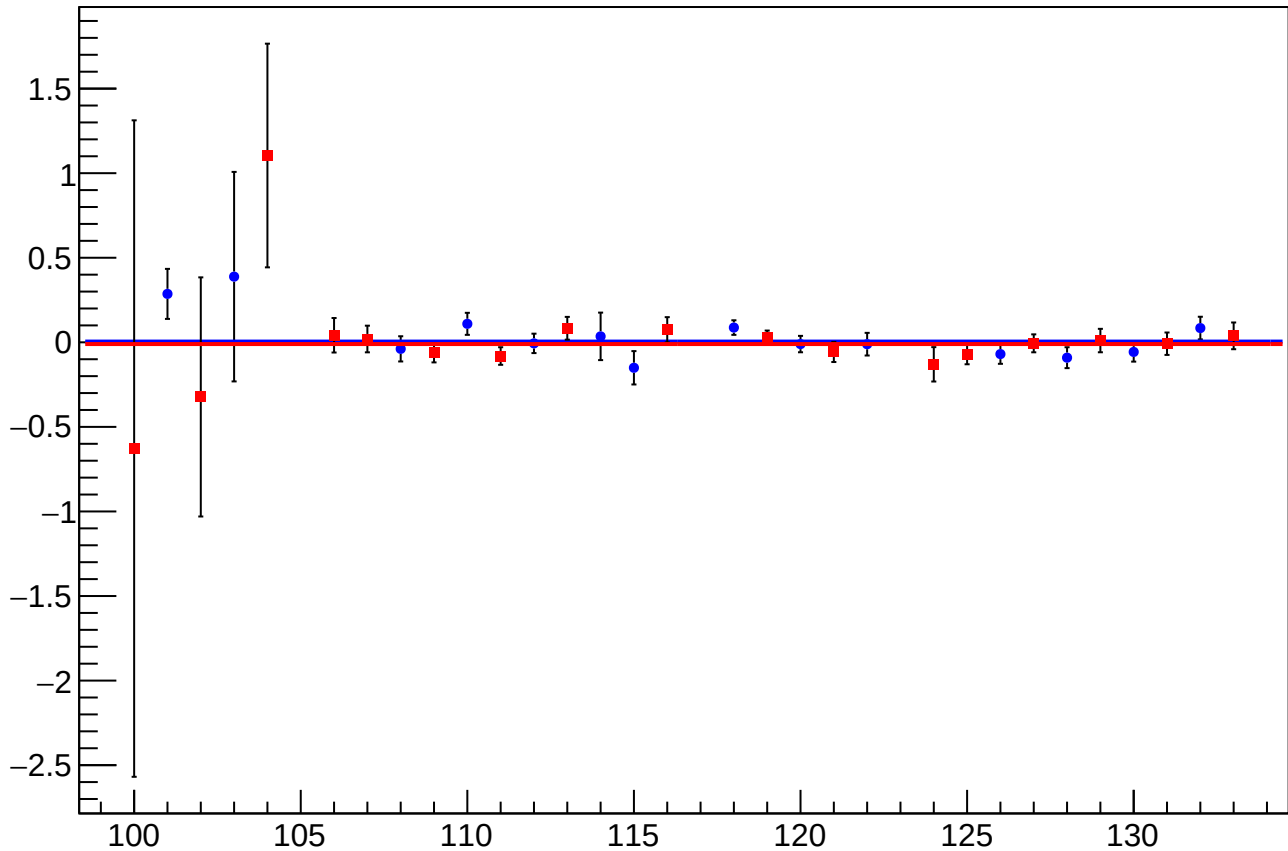
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4609919.4/30

- 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: 0.004+/-0.018  $\chi^2/\text{NDF}$ : 19.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.010+/-0.017  $\chi^2/\text{NDF}$ : 13.7/16

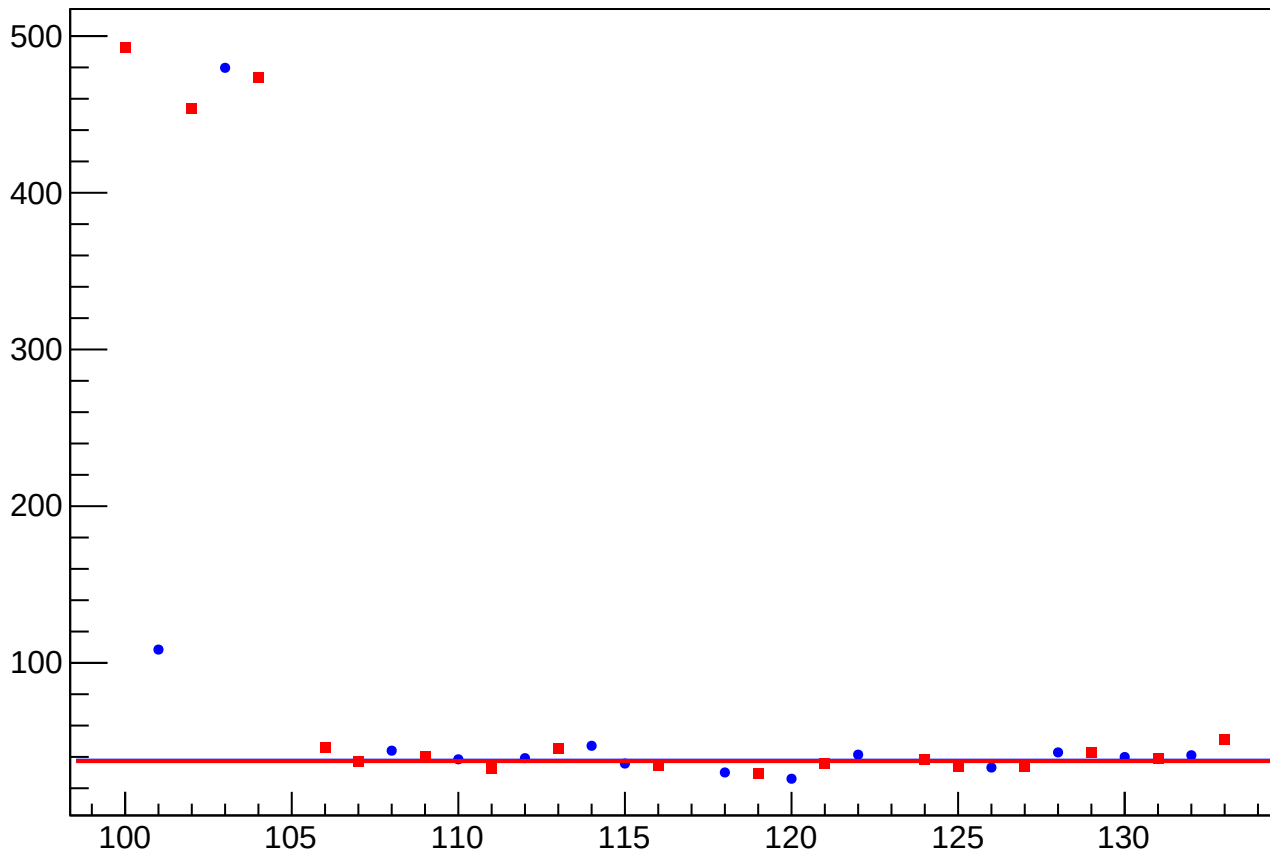
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.003+/-0.012  $\chi^2/\text{NDF}$ : 34.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 37.592+/-0.012  $\chi^2$ /NDF: 1720593.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 37.330+/-0.012  $\chi^2$ /NDF: 1900051.4/16

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

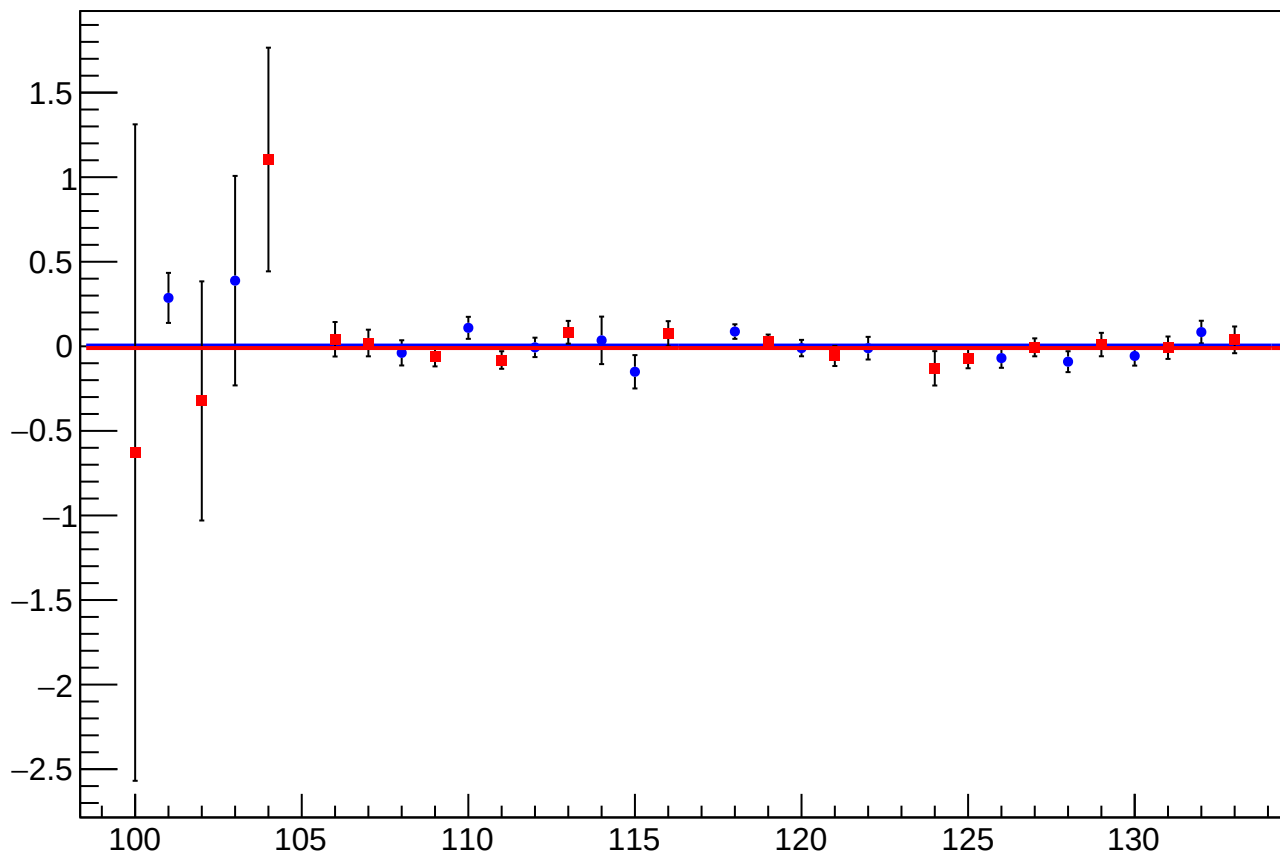
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 37.455+/-0.009  $\chi^2$ /NDF: 3620876.4/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.004 $\pm$ 0.018  $\chi^2$ /NDF: 19.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.010 $\pm$ 0.017  $\chi^2$ /NDF: 13.7/16

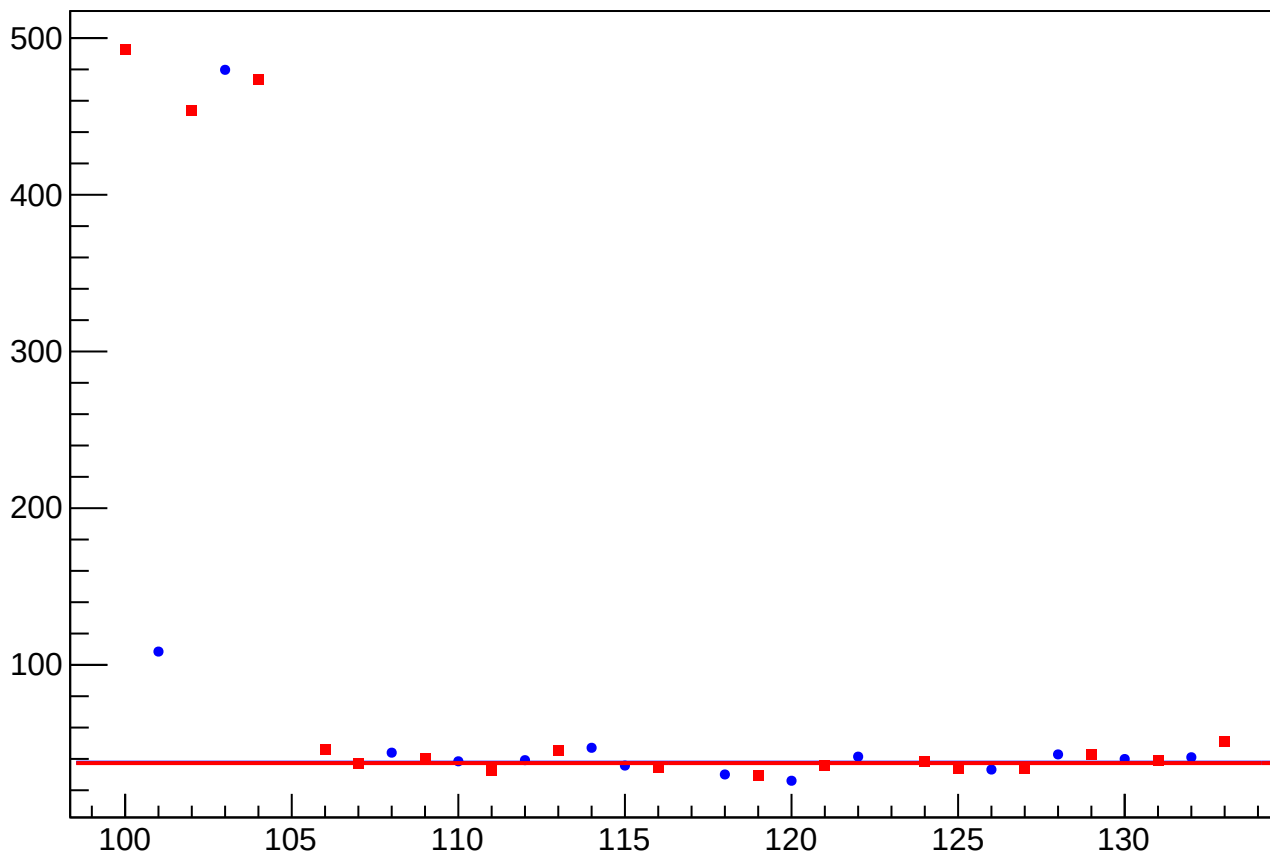
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.012  $\chi^2$ /NDF: 34.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 37.592+/-0.012  $\chi^2/\text{NDF}$ : 1720593.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.330+/-0.012  $\chi^2/\text{NDF}$ : 1900051.4/16

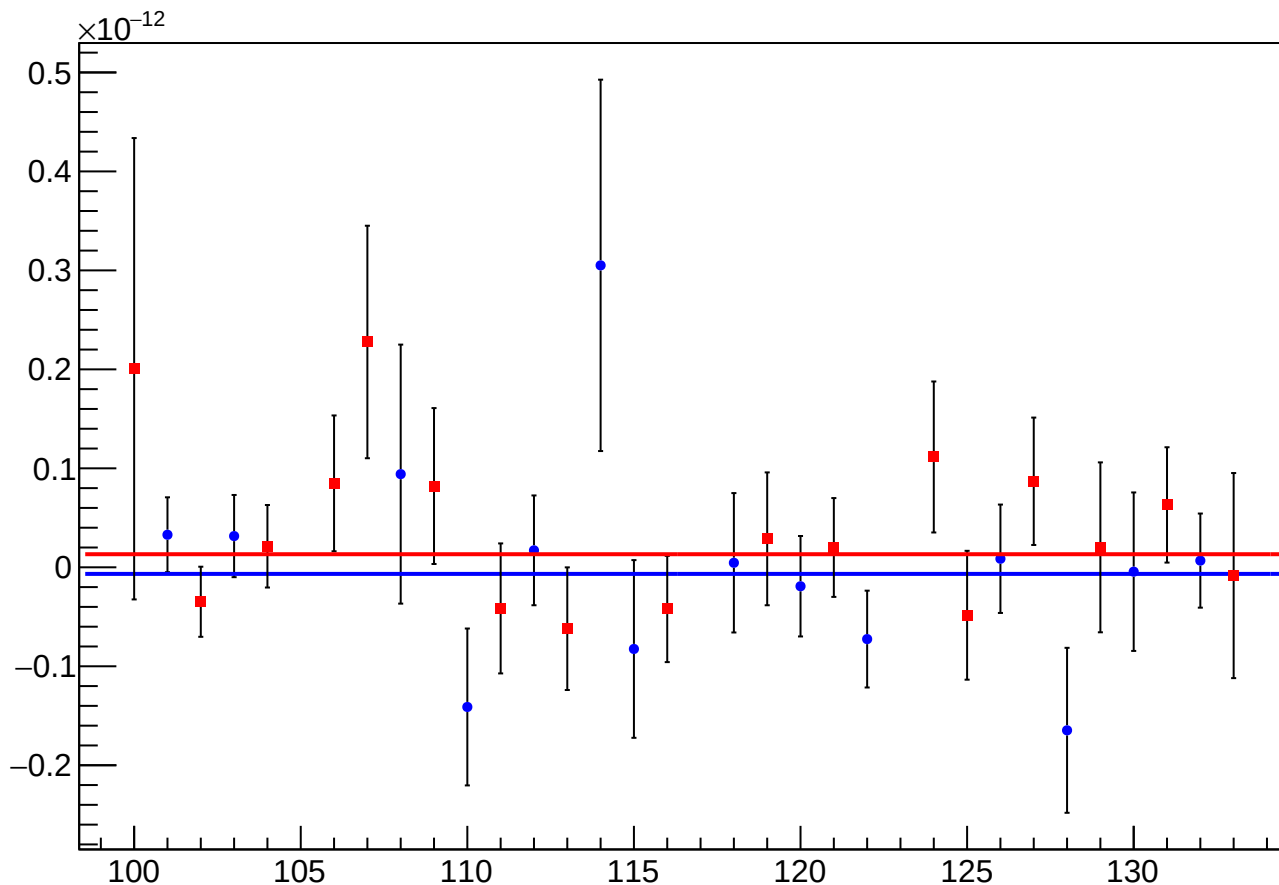
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.455+/-0.009  $\chi^2/\text{NDF}$ : 3620876.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.7/16

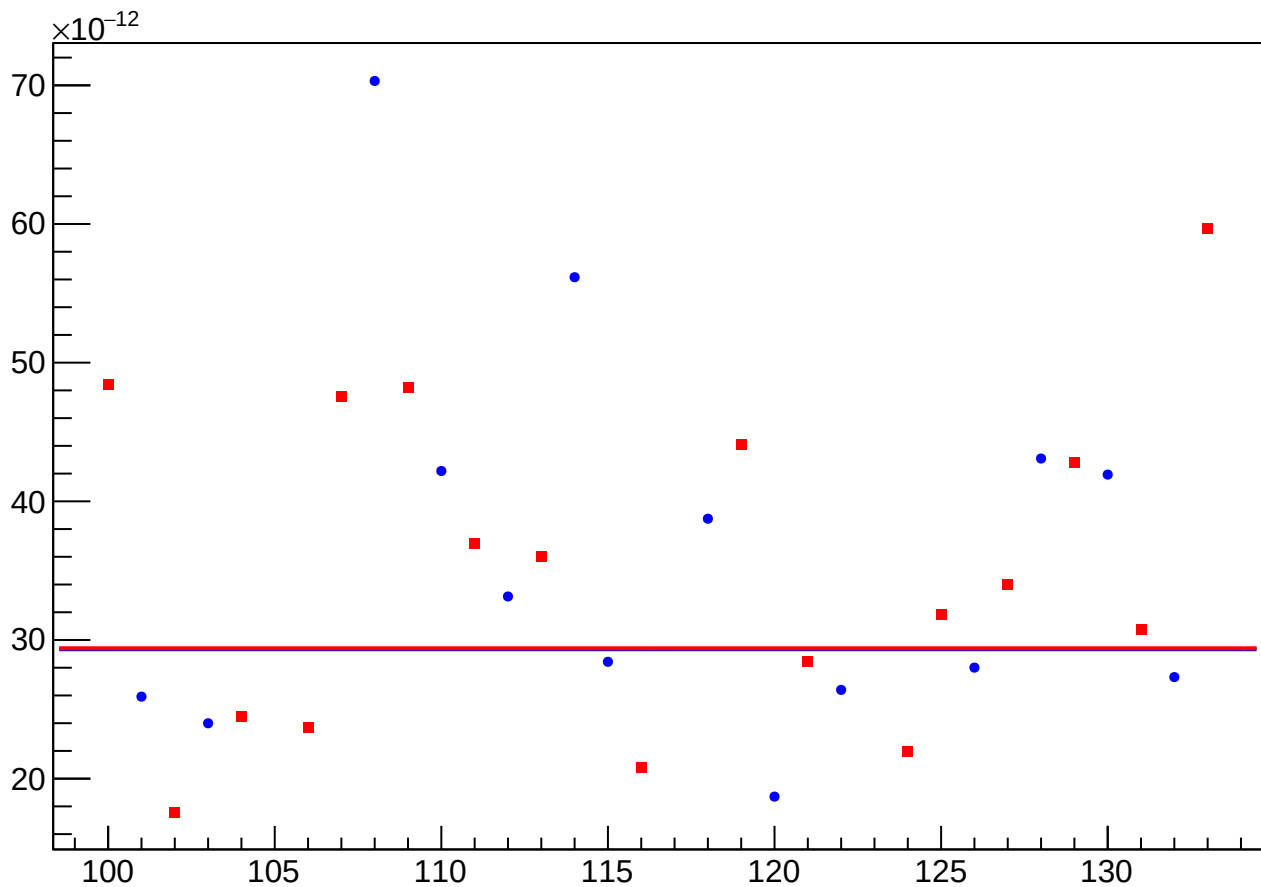
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 31.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr1\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 588000.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 890784.5/16

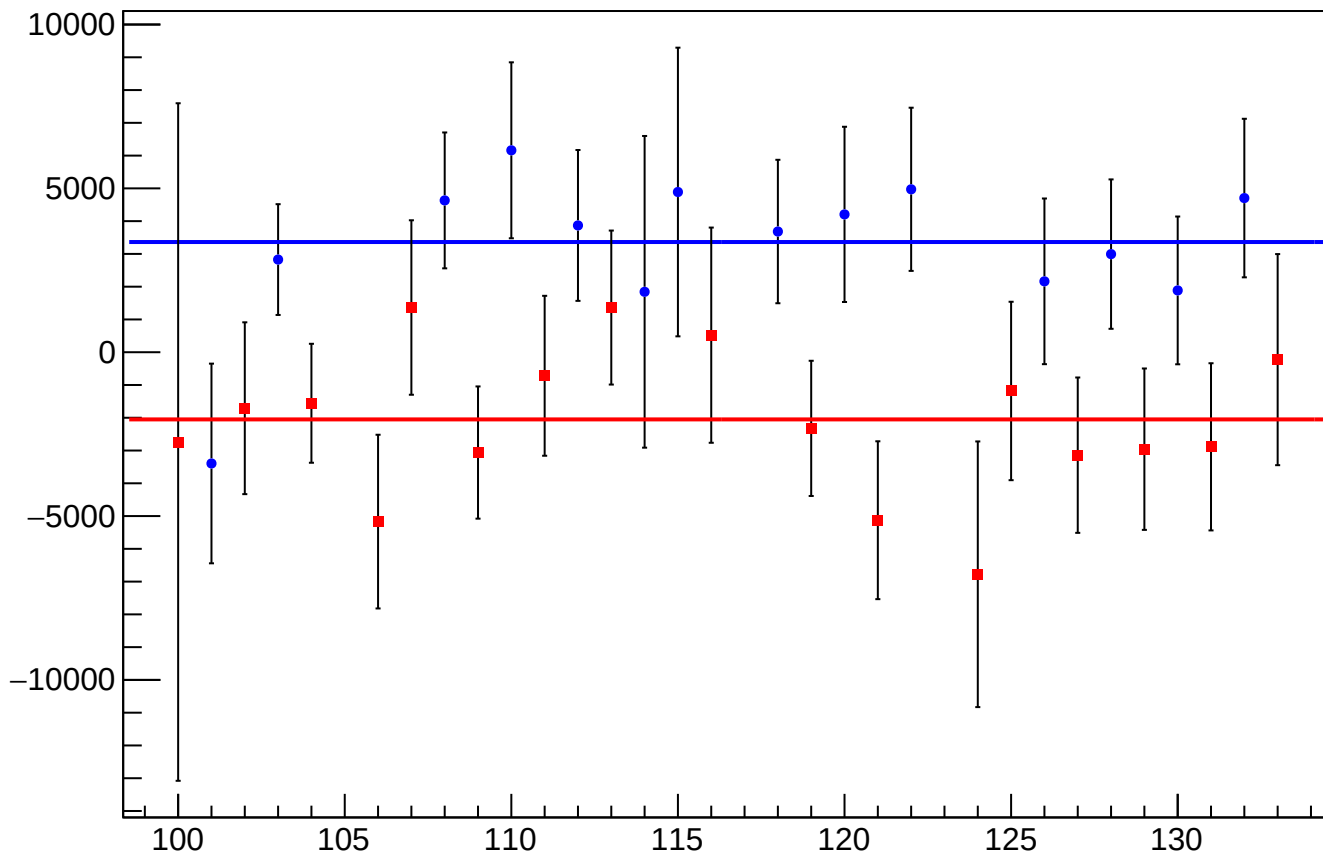
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1478805.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr2\_avg\_mean vs Slug



Right In: 3362.738+/-653.712  $\chi^2/\text{NDF}$ : 8.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2050.204+/-617.170  $\chi^2/\text{NDF}$ : 10.3/16

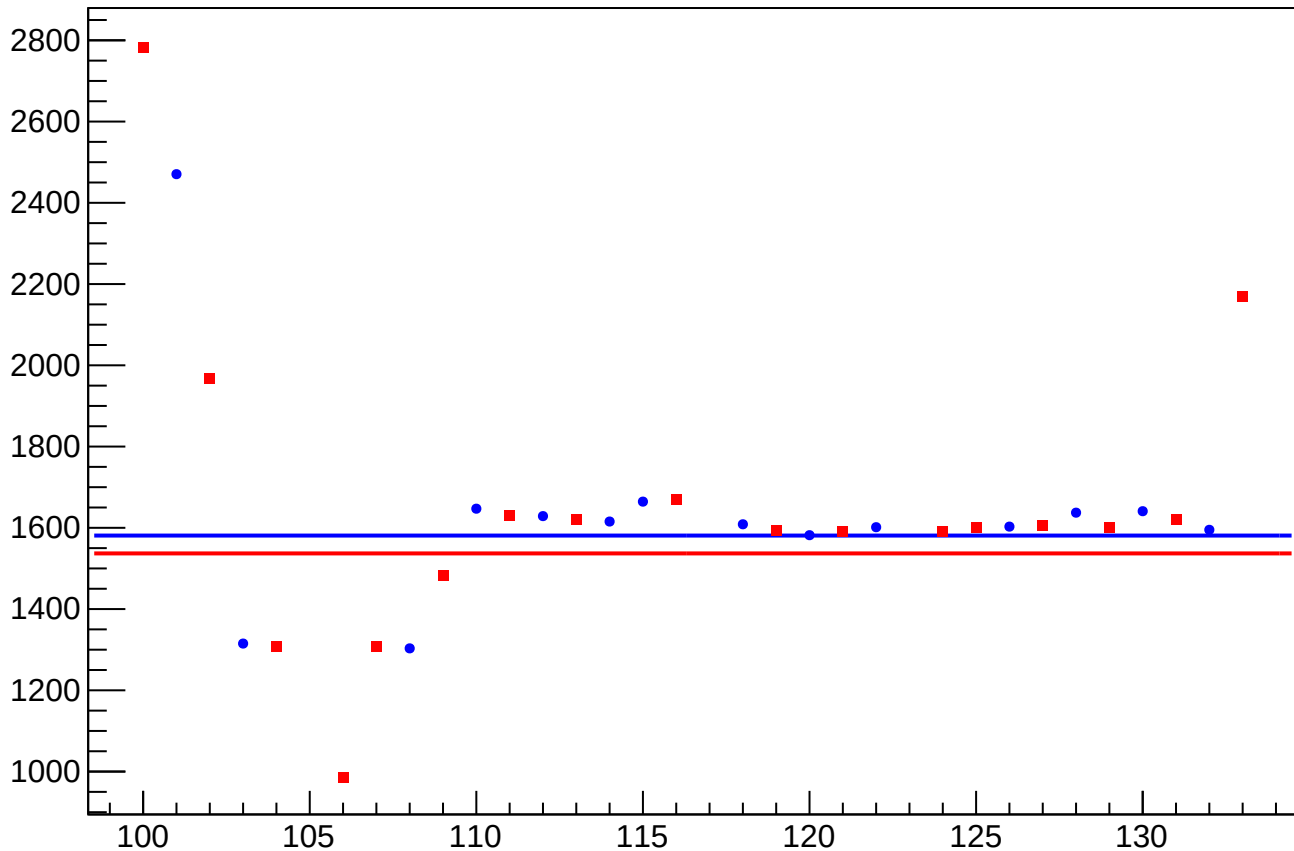
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 500.757+/-448.768  $\chi^2/\text{NDF}$ : 54.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1580.931+/-0.462  $\chi^2/\text{NDF}$ : 262060.4/13

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

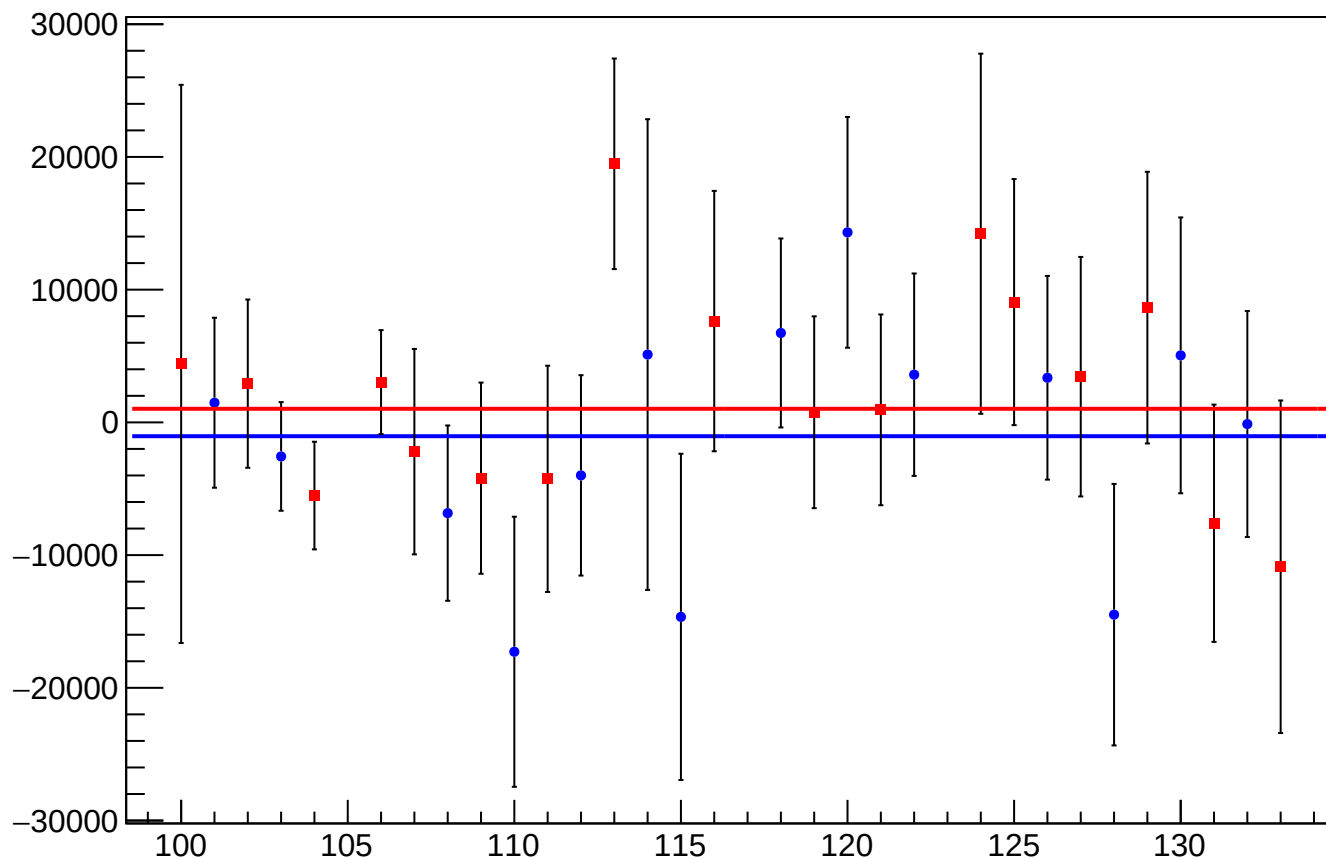
Right Out: 1536.980+/-0.428  $\chi^2/\text{NDF}$ : 372320.5/16

All: 1557.288+/-0.314  $\chi^2/\text{NDF}$ : 639244.3/30

- 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\_reg\_correction\_mean vs Slug



Right In: -1041.680+/-2022.417  $\chi^2/\text{NDF}$ : 12.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1024.673+/-1752.835  $\chi^2/\text{NDF}$ : 14.1/16

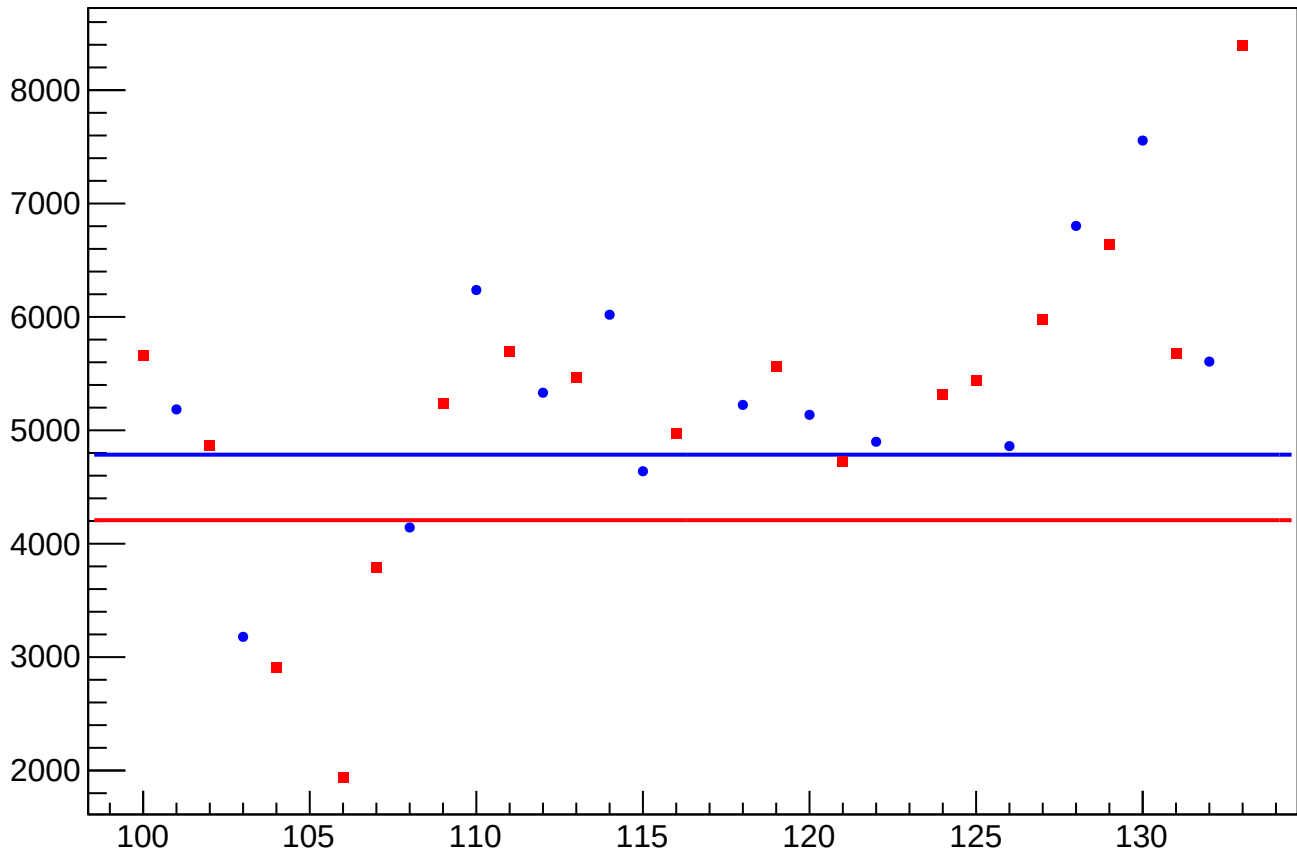
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 138.301+/-1324.575  $\chi^2/\text{NDF}$ : 27.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_avg\_reg\_correction\_rms vs Slug



Right In: 4785.343+/-1.430  $\chi^2/\text{NDF}$ : 652005.6/13

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: 4207.305+/-1.239  $\chi^2/\text{NDF}$ : 1672884.9/16

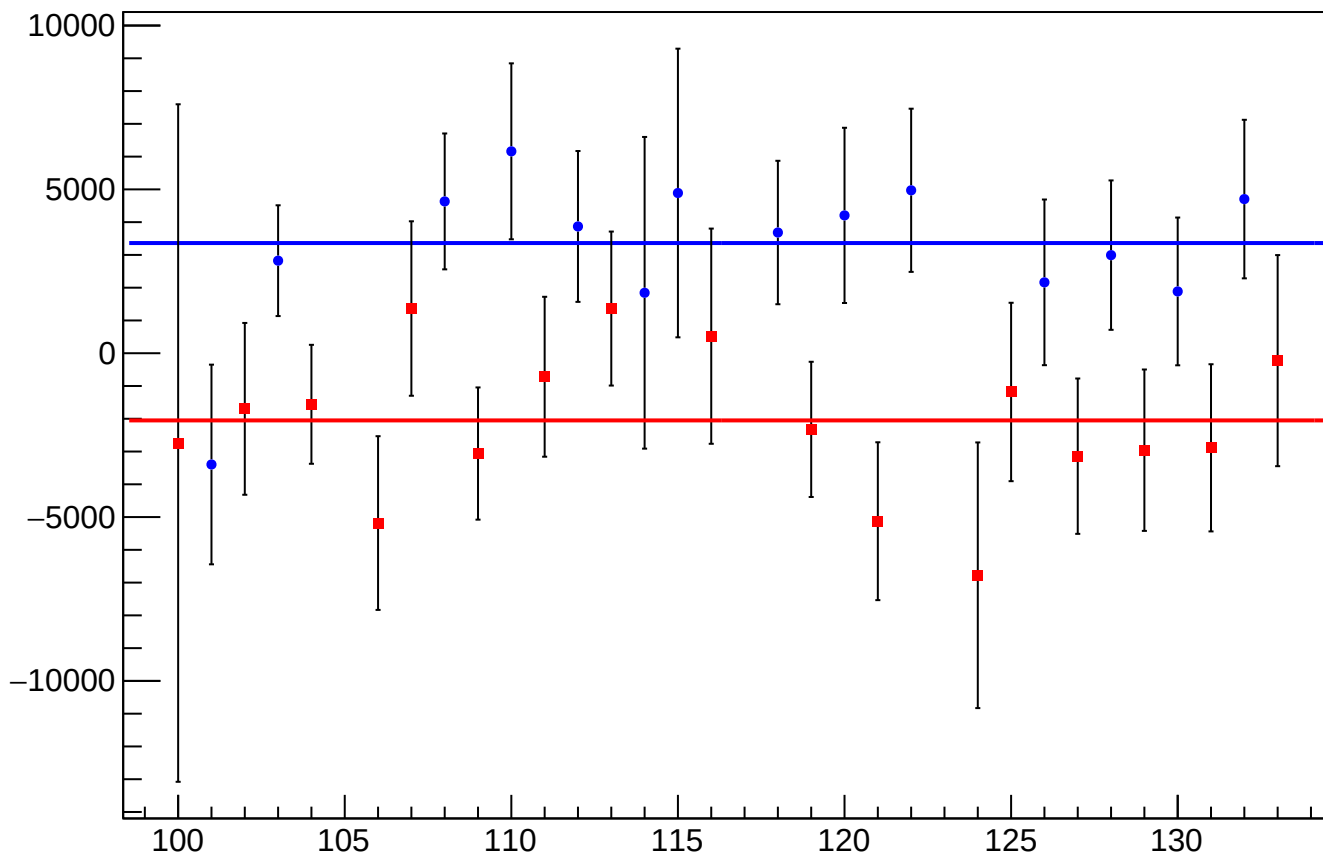
All: 4455.257+/-0.937  $\chi^2/\text{NDF}$ : 2418188.6/30

- 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: 3362.325+/-653.712  $\chi^2/\text{NDF}$ : 8.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2050.281+/-617.173  $\chi^2/\text{NDF}$ : 10.3/16

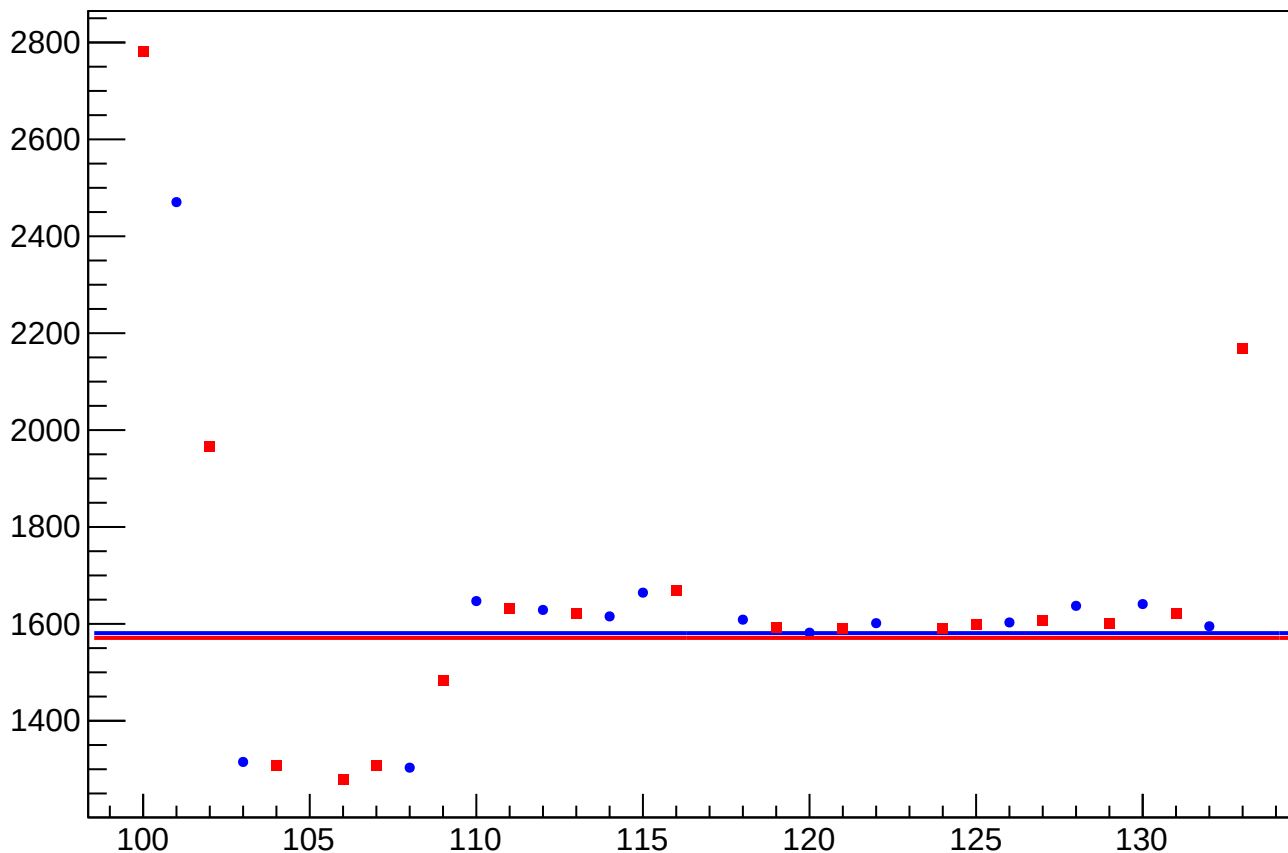
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 500.536+/-448.769  $\chi^2/\text{NDF}$ : 54.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1580.932 $\pm$ 0.462  $\chi^2$ /NDF: 262059.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1571.025 $\pm$ 0.435  $\chi^2$ /NDF: 241862.3/16

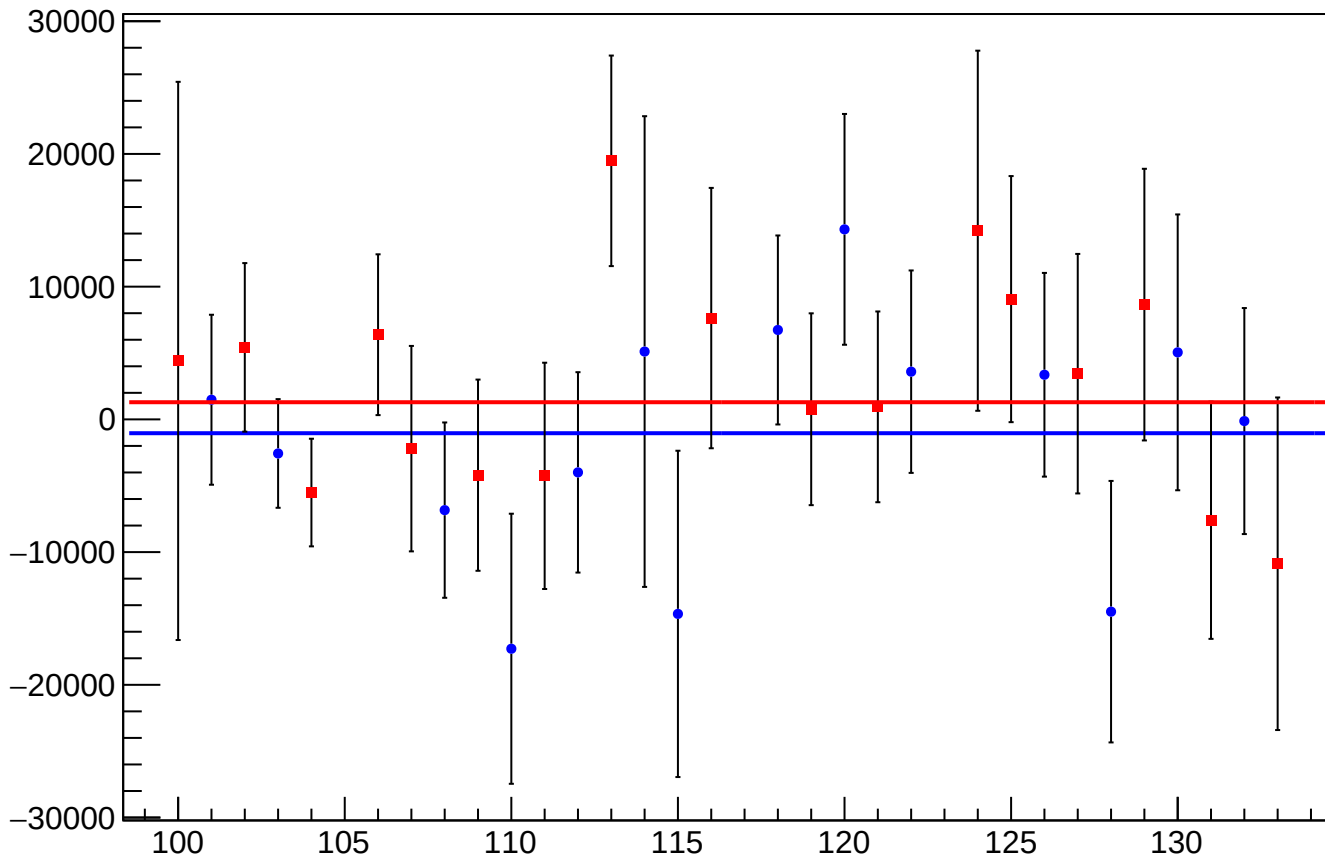
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1575.672 $\pm$ 0.317  $\chi^2$ /NDF: 504165.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_avg\_cor\_correction\_mean vs Slug



Right In: -1041.951+/-2022.467  $\chi^2$ /NDF: 12.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1292.744+/-1865.122  $\chi^2$ /NDF: 15.0/16

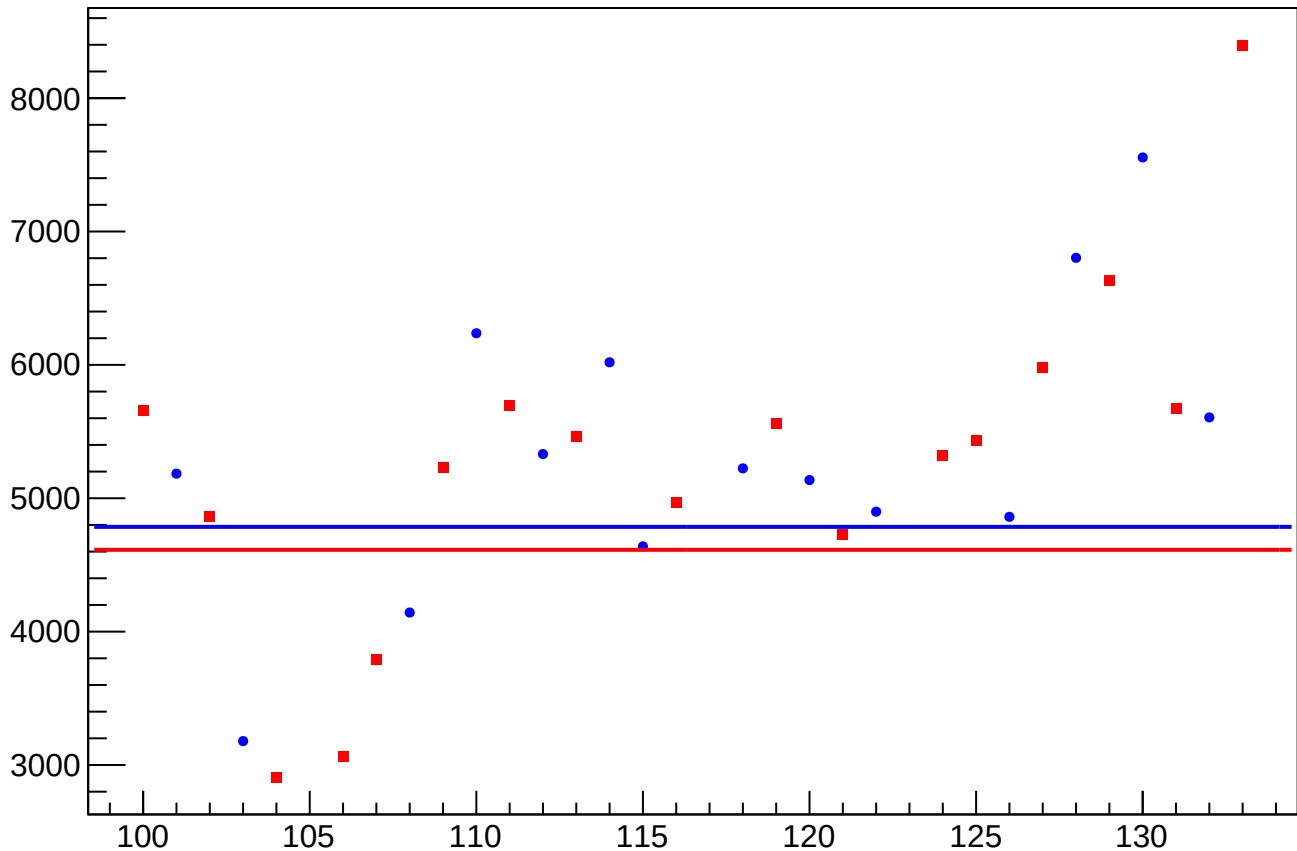
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 219.736+/-1371.096  $\chi^2$ /NDF: 28.0/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_avg\_cor\_correction\_rms vs Slug



Right In: 4785.508+/-1.430  $\chi^2/\text{NDF}$ : 651812.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4613.359+/-1.319  $\chi^2/\text{NDF}$ : 977904.3/16

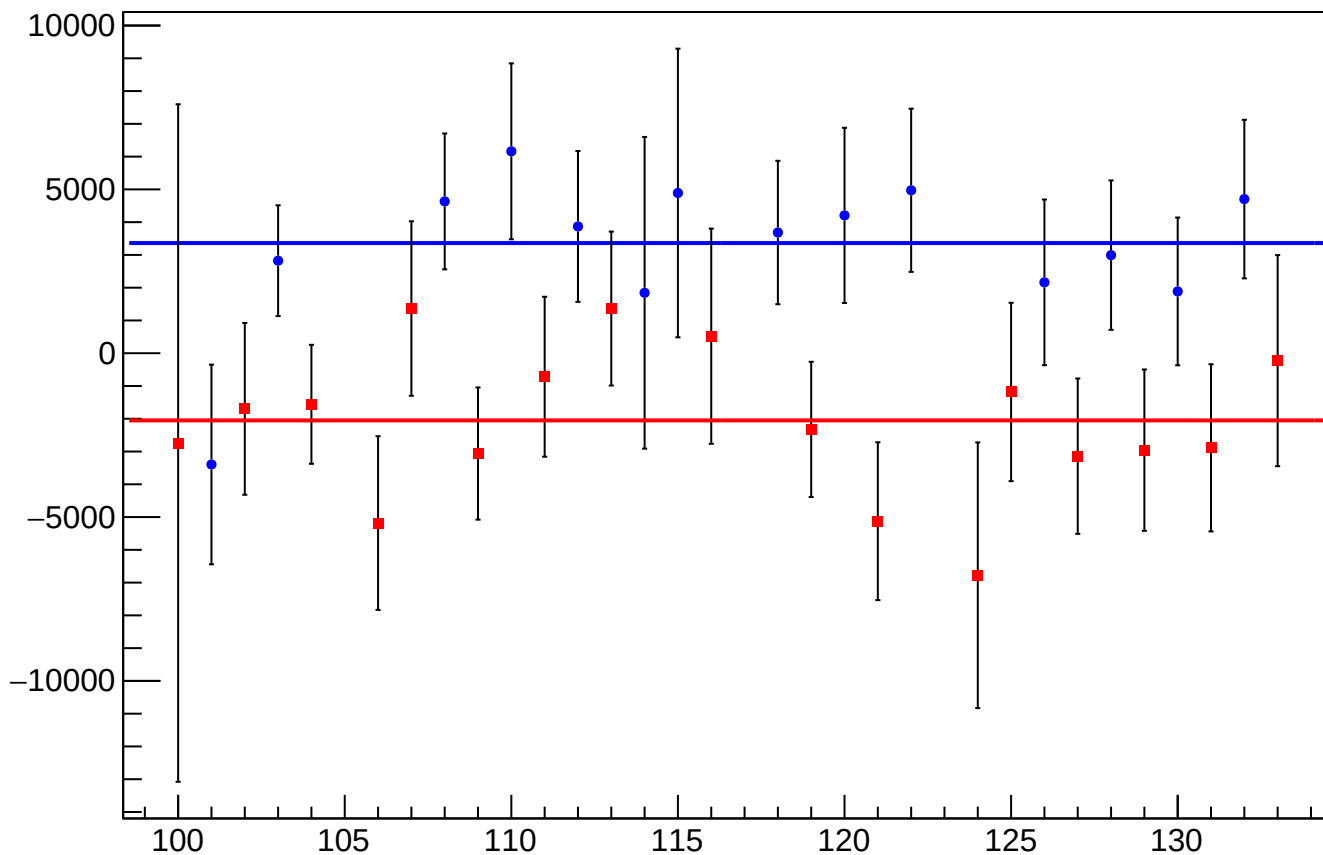
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4692.478+/-0.970  $\chi^2/\text{NDF}$ : 1637547.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr2\_avg\_mean vs Slug



Right In: 3362.325+/-653.712  $\chi^2/\text{NDF}$ : 8.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2050.281+/-617.173  $\chi^2/\text{NDF}$ : 10.3/16

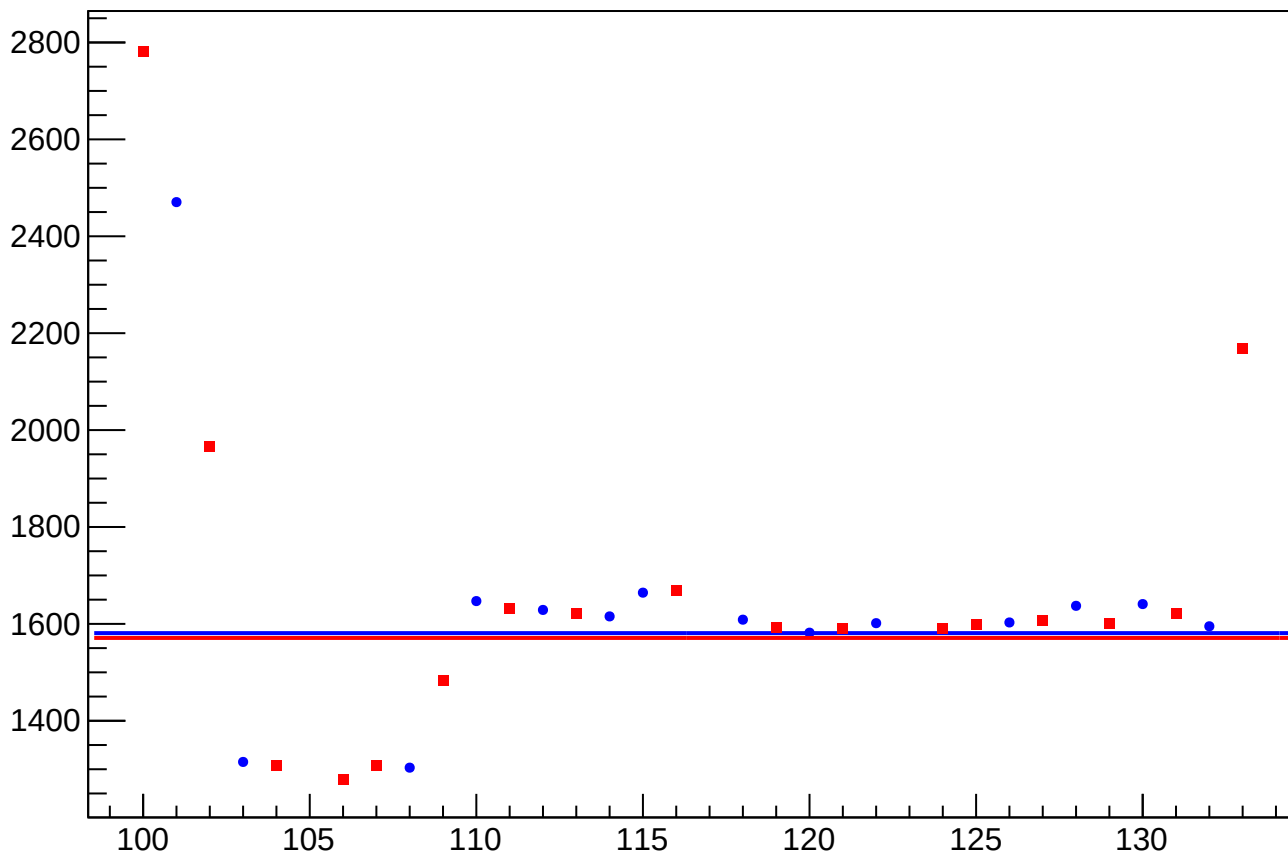
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 500.536+/-448.769  $\chi^2/\text{NDF}$ : 54.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1580.932 $\pm$ 0.462  $\chi^2$ /NDF: 262059.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1571.025 $\pm$ 0.435  $\chi^2$ /NDF: 241862.3/16

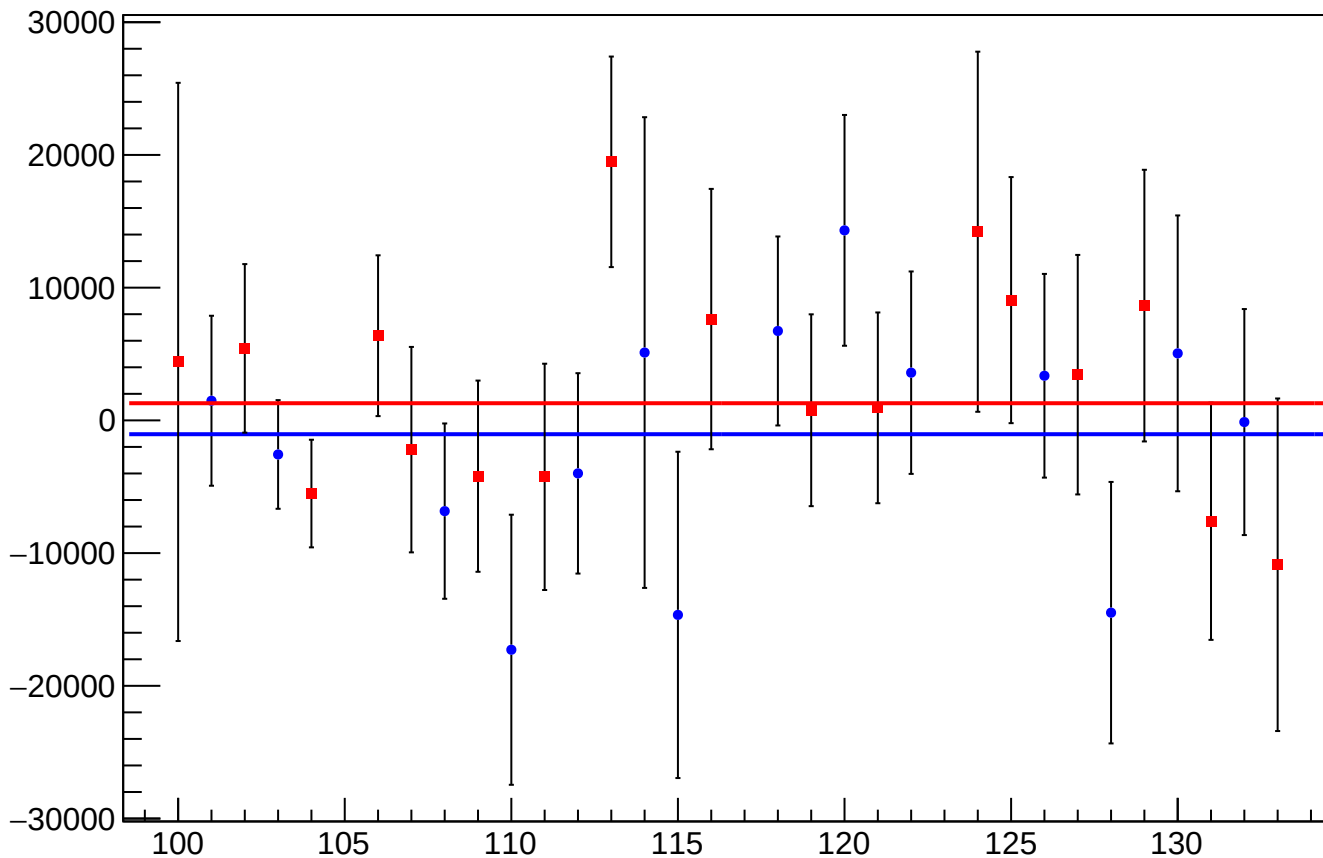
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1575.672 $\pm$ 0.317  $\chi^2$ /NDF: 504165.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -1041.951+/-2022.467  $\chi^2/\text{NDF}$ : 12.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1292.744+/-1865.122  $\chi^2/\text{NDF}$ : 15.0/16

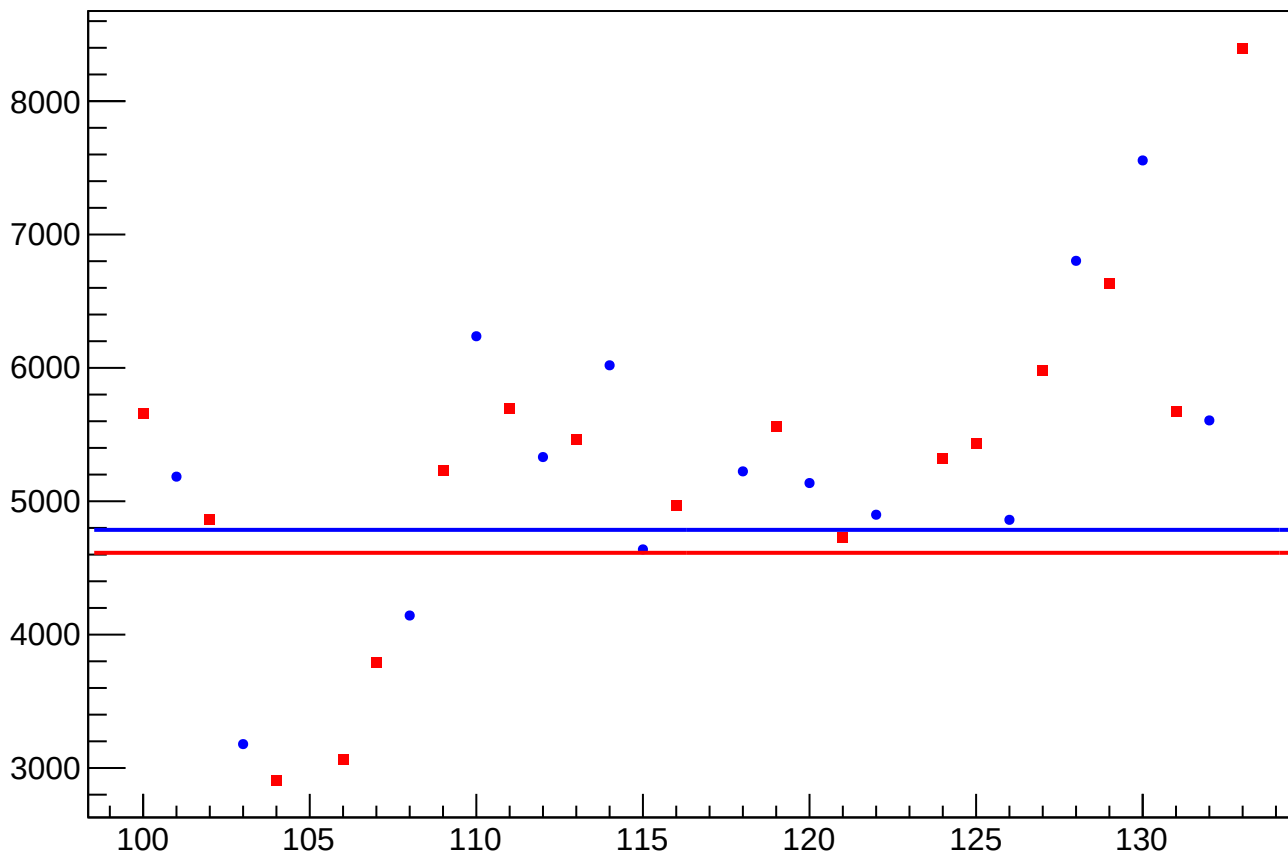
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 219.736+/-1371.096  $\chi^2/\text{NDF}$ : 28.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 4785.508+/-1.430  $\chi^2/\text{NDF}$ : 651812.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4613.359+/-1.319  $\chi^2/\text{NDF}$ : 977904.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

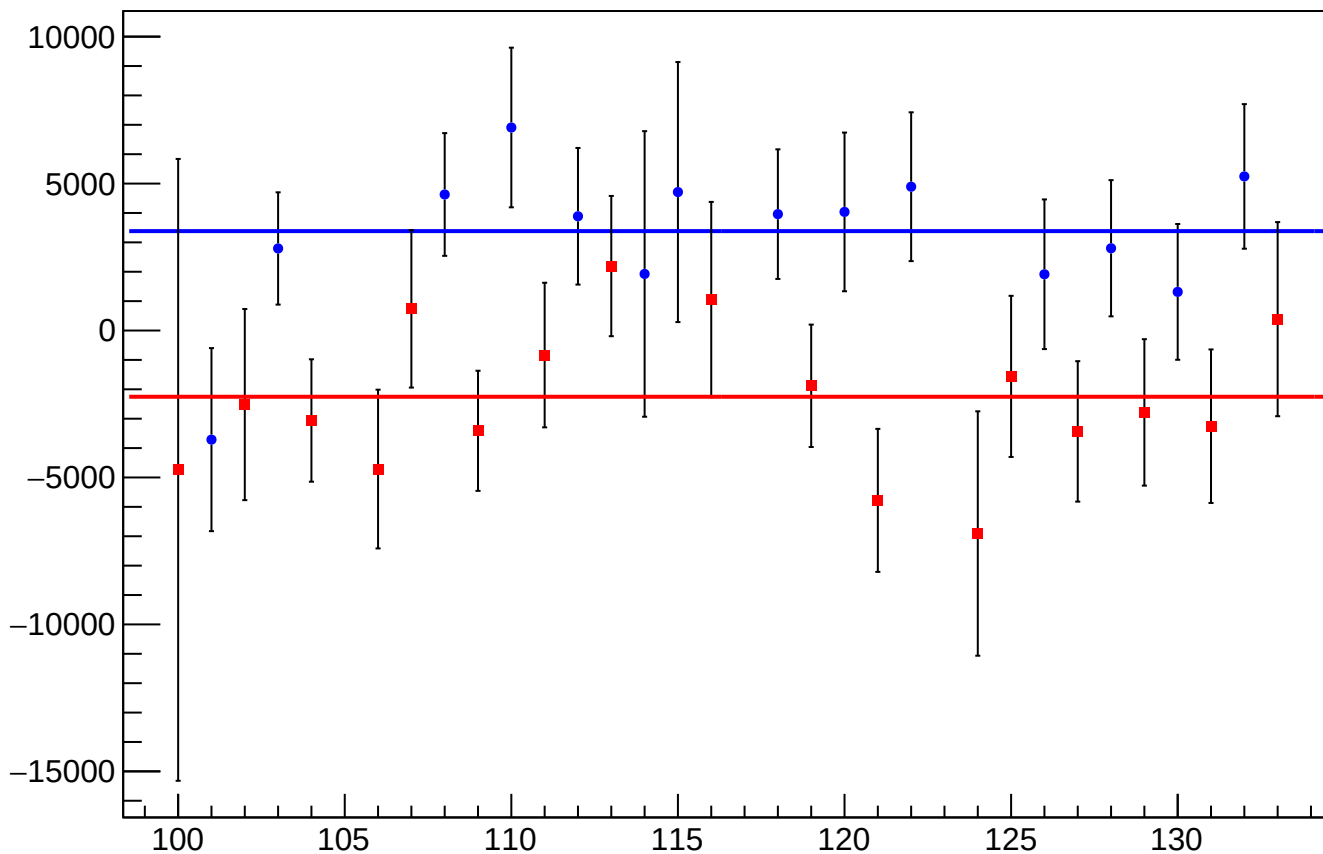
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4692.478+/-0.970  $\chi^2/\text{NDF}$ : 1637547.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_usr\_atr2\_avg\_mean vs Slug



Right In: 3382.401 $\pm$ 672.302  $\chi^2$ /NDF: 9.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2253.598 $\pm$ 639.355  $\chi^2$ /NDF: 11.9/16

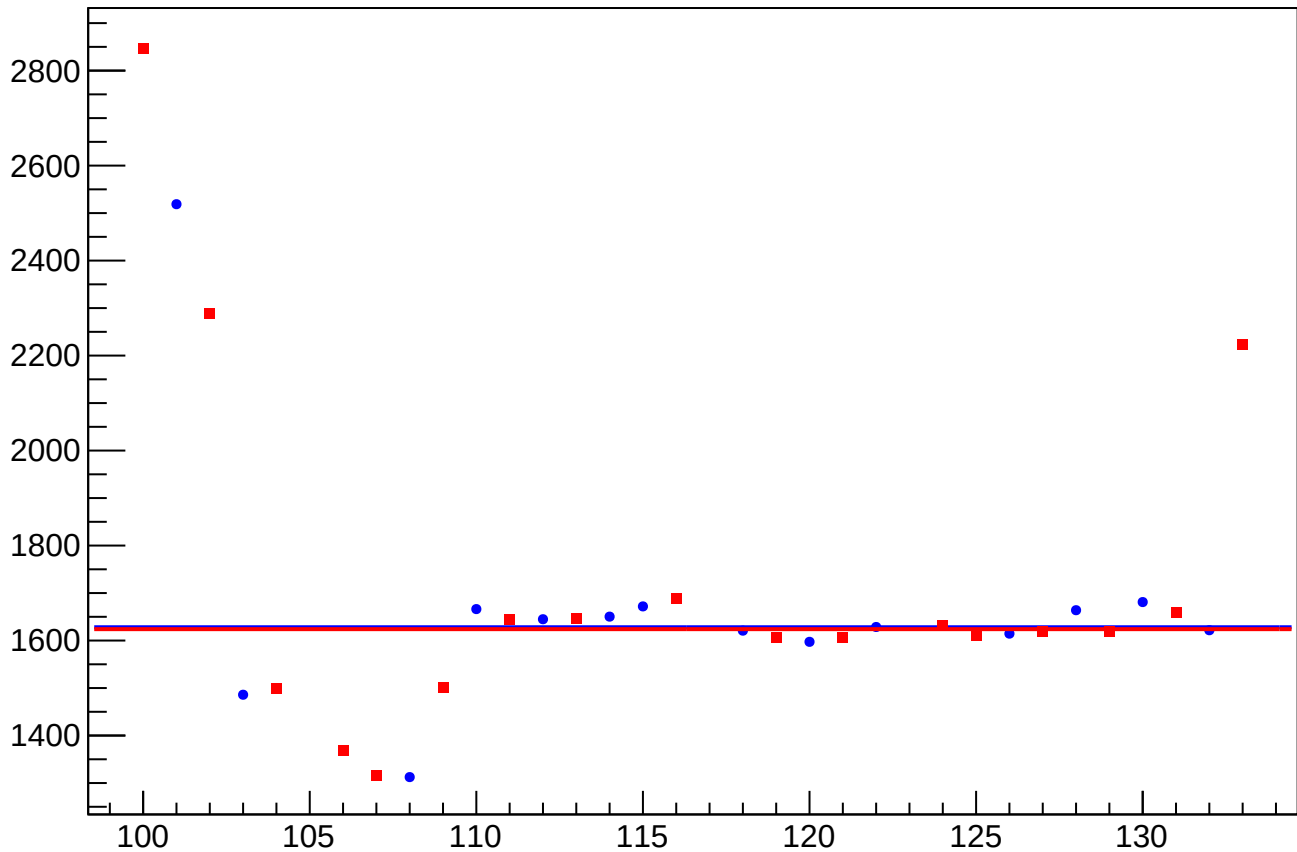
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 422.924 $\pm$ 463.302  $\chi^2$ /NDF: 58.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1627.983+/-0.475  $\chi^2/\text{NDF}$ : 222955.0/13

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

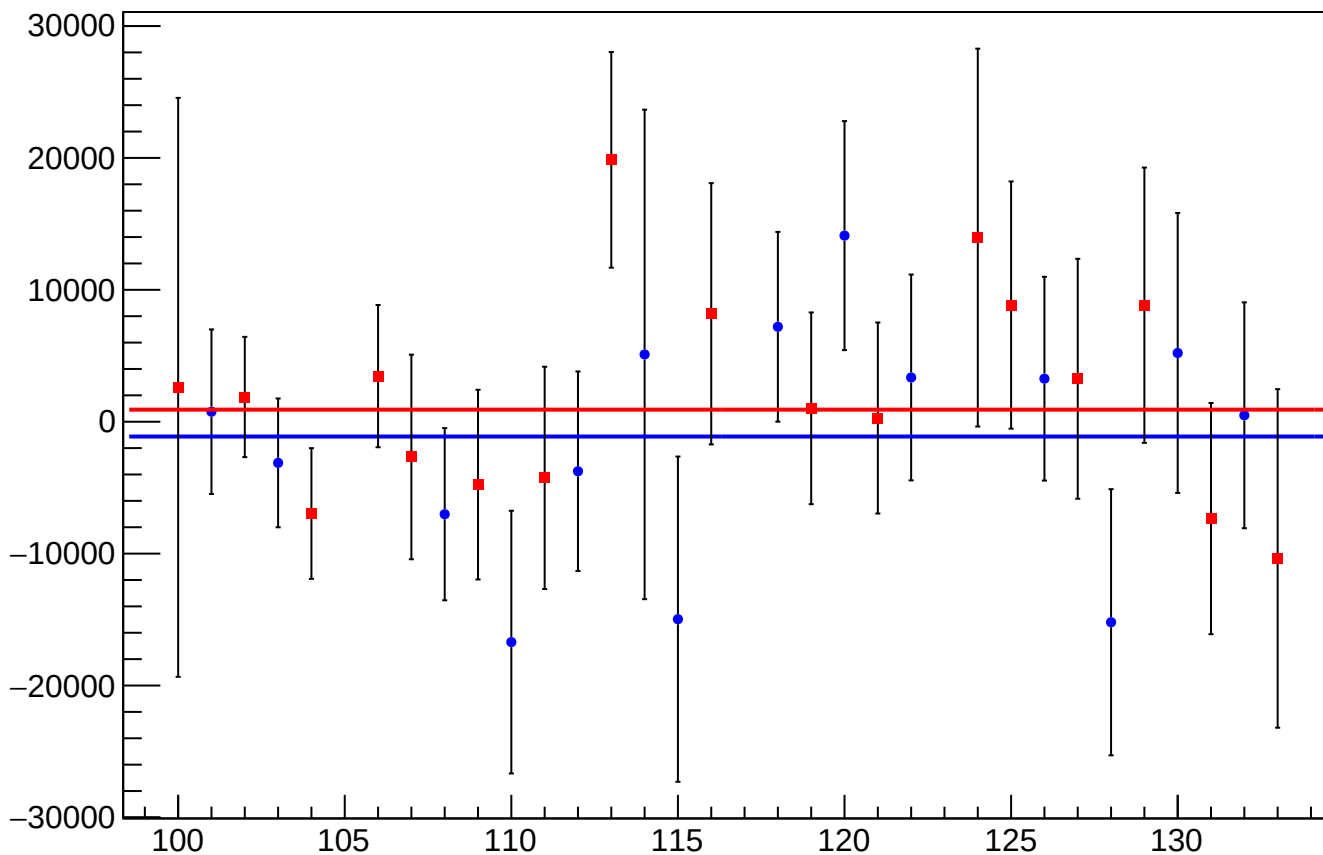
Right Out: 1624.013+/-0.452  $\chi^2/\text{NDF}$ : 237188.4/16

All: 1625.896+/-0.327  $\chi^2/\text{NDF}$ : 460180.0/30

- 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: -1122.165+/-2102.401  $\chi^2/\text{NDF}$ : 12.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 916.056+/-1840.838  $\chi^2/\text{NDF}$ : 13.8/16

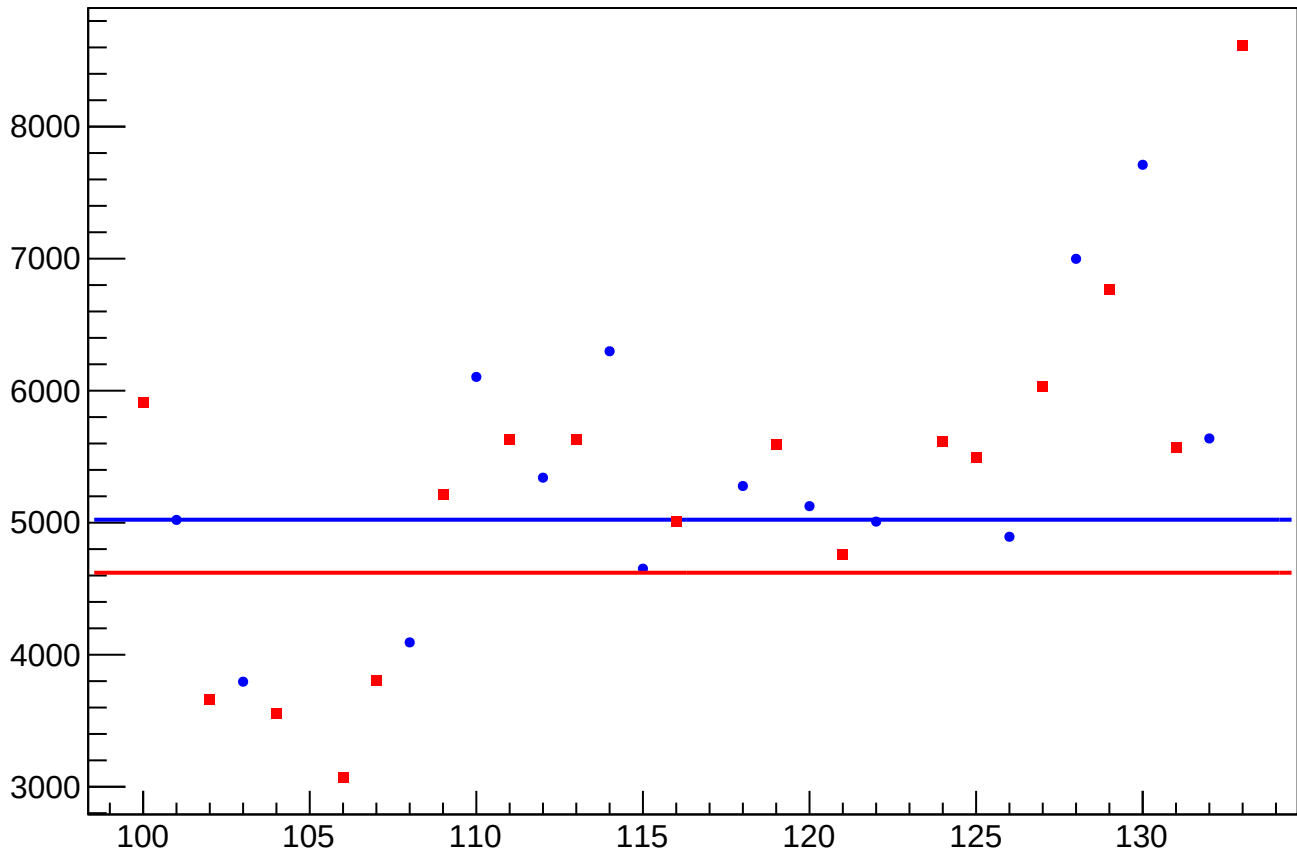
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.552+/-1384.968  $\chi^2/\text{NDF}$ : 26.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_avg\_dit\_correction\_rms vs Slug



Right In: 5022.831+/-1.487  $\chi^2/\text{NDF}$ : 423957.9/13

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

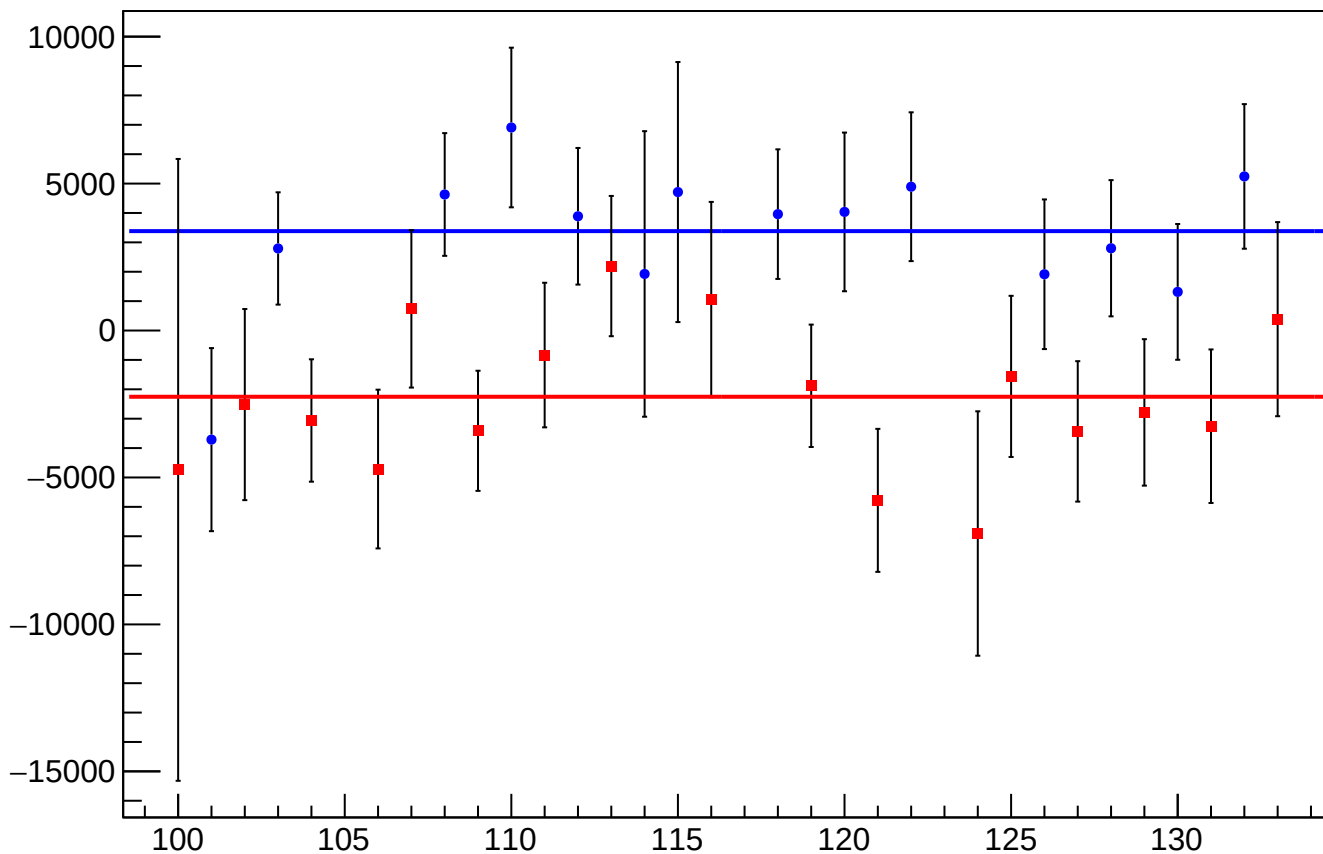
Right Out: 4621.198+/-1.302  $\chi^2/\text{NDF}$ : 862824.8/16

All: 4795.490+/-0.979  $\chi^2/\text{NDF}$ : 1328097.6/30

- 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: 3382.400+/-672.301  $\chi^2$ /NDF: 9.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2253.604+/-639.355  $\chi^2$ /NDF: 11.9/16

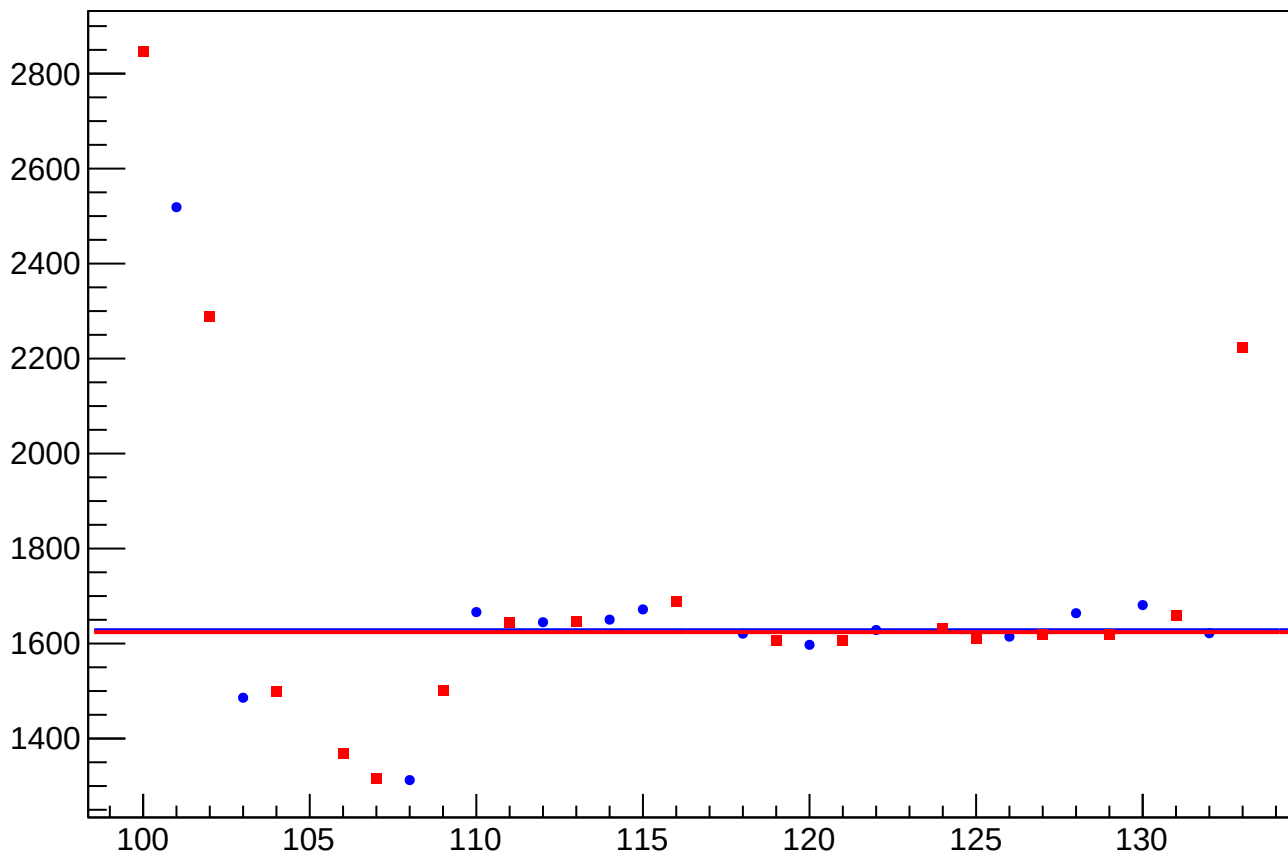
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 422.922+/-463.302  $\chi^2$ /NDF: 58.6/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 1627.982 $\pm$ 0.475  $\chi^2$ /NDF: 222955.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1624.012 $\pm$ 0.452  $\chi^2$ /NDF: 237188.0/16

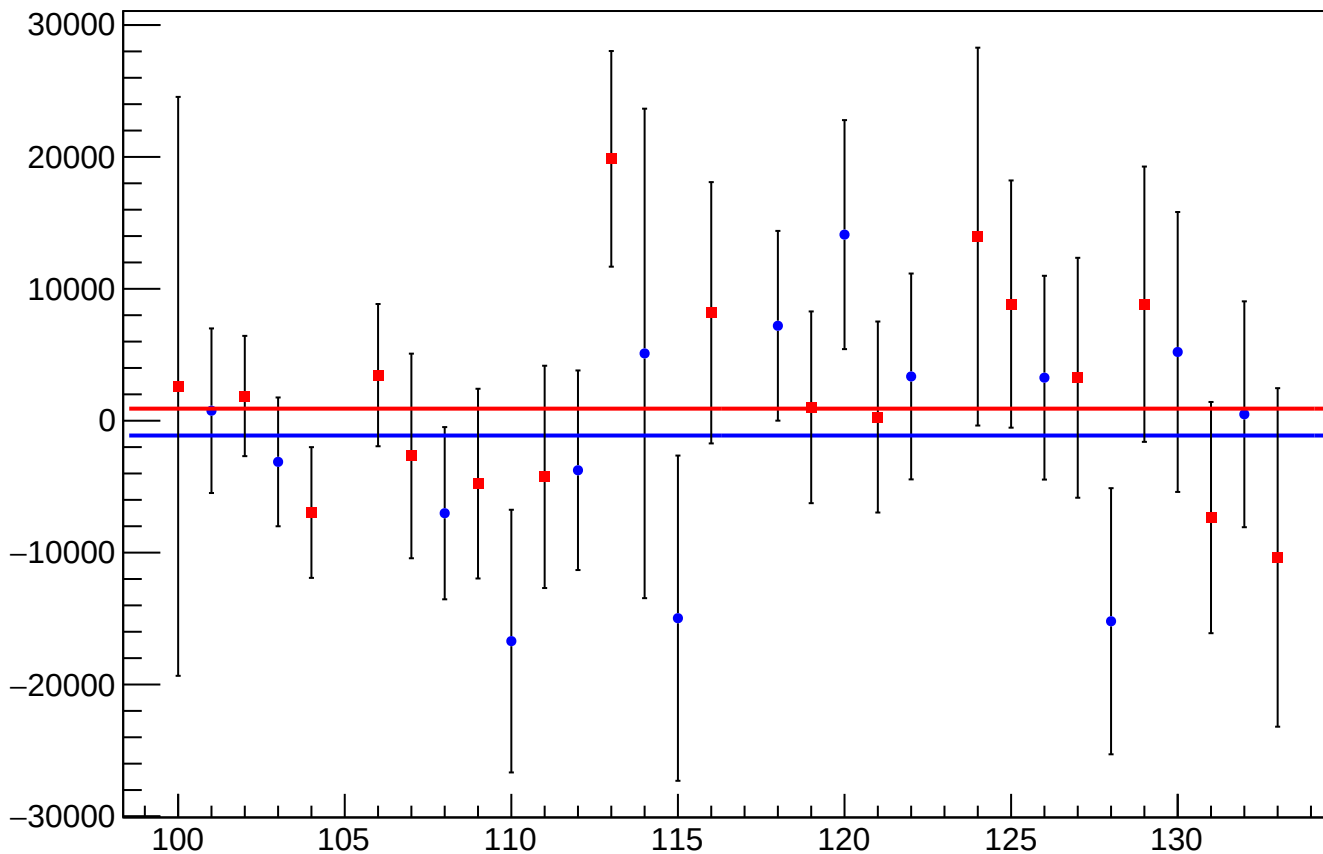
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1625.895 $\pm$ 0.327  $\chi^2$ /NDF: 460179.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -1122.159+/-2102.396  $\chi^2/\text{NDF}$ : 12.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 916.055+/-1840.834  $\chi^2/\text{NDF}$ : 13.8/16

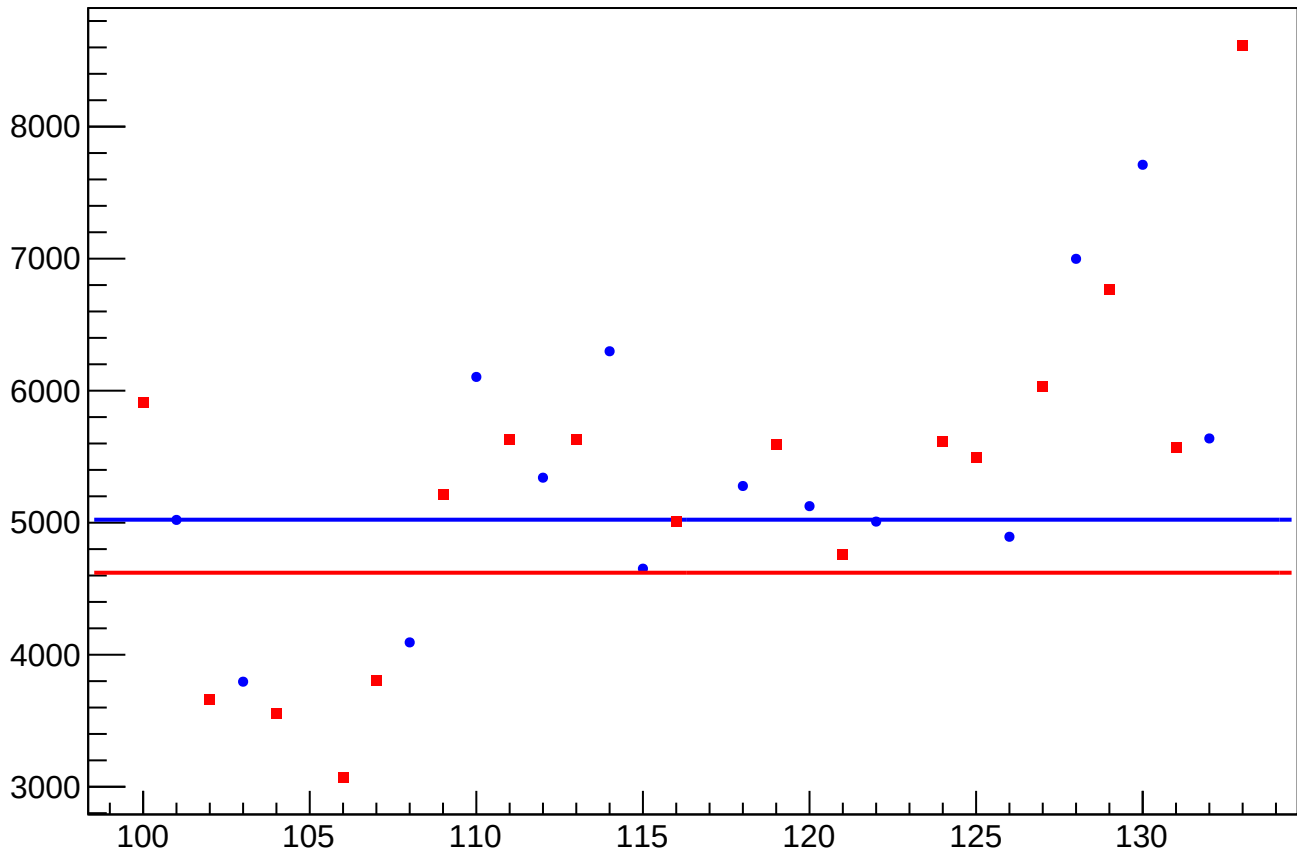
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.555+/-1384.965  $\chi^2/\text{NDF}$ : 26.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 5022.820+/-1.487  $\chi^2/\text{NDF}$ : 423952.2/13

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: 4621.189+/-1.302  $\chi^2/\text{NDF}$ : 862818.6/16

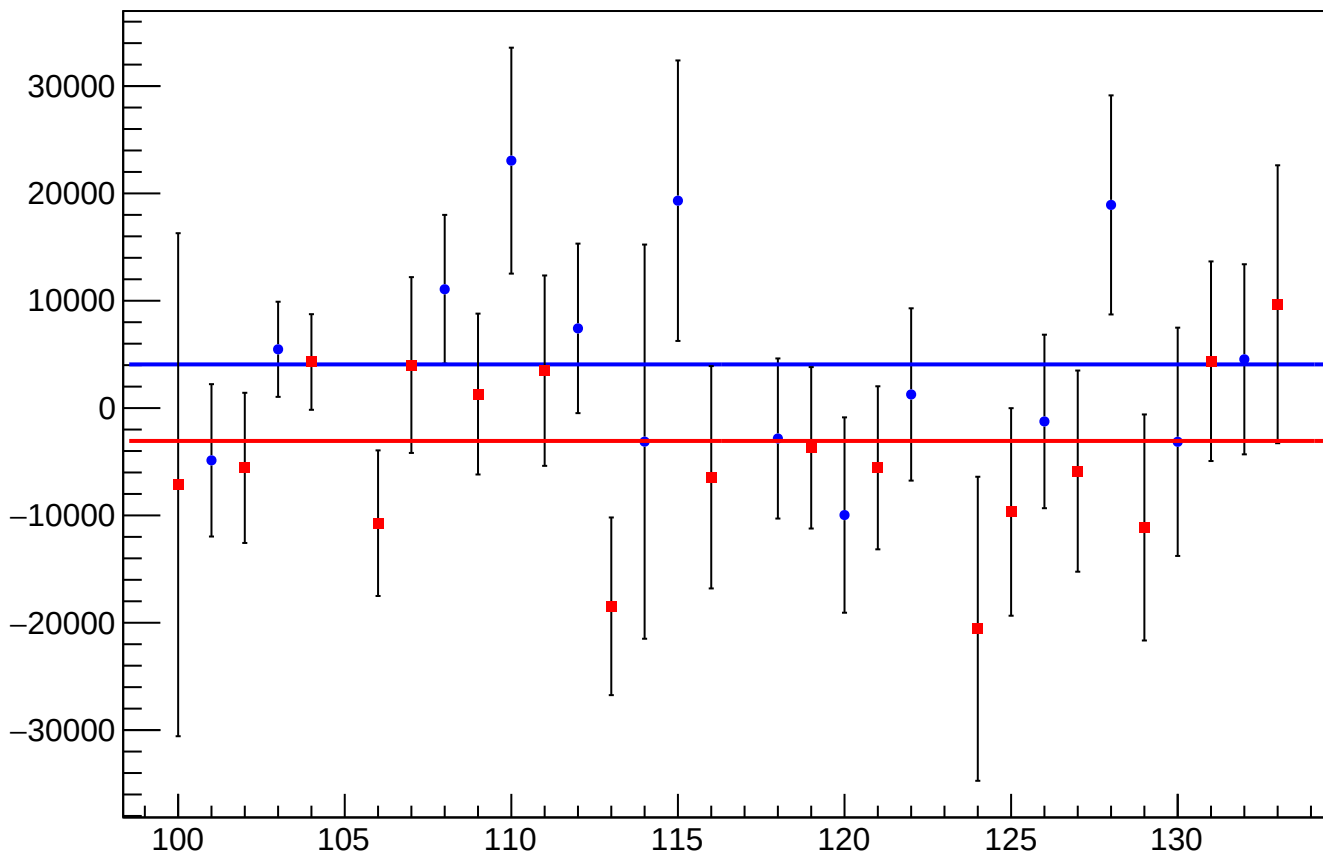
All: 4795.480+/-0.979  $\chi^2/\text{NDF}$ : 1328085.4/30

- 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\_mean vs Slug



Right In: 4069.197 $\pm$ 2143.933  $\chi^2$ /NDF: 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3061.935 $\pm$ 1990.573  $\chi^2$ /NDF: 13.8/16

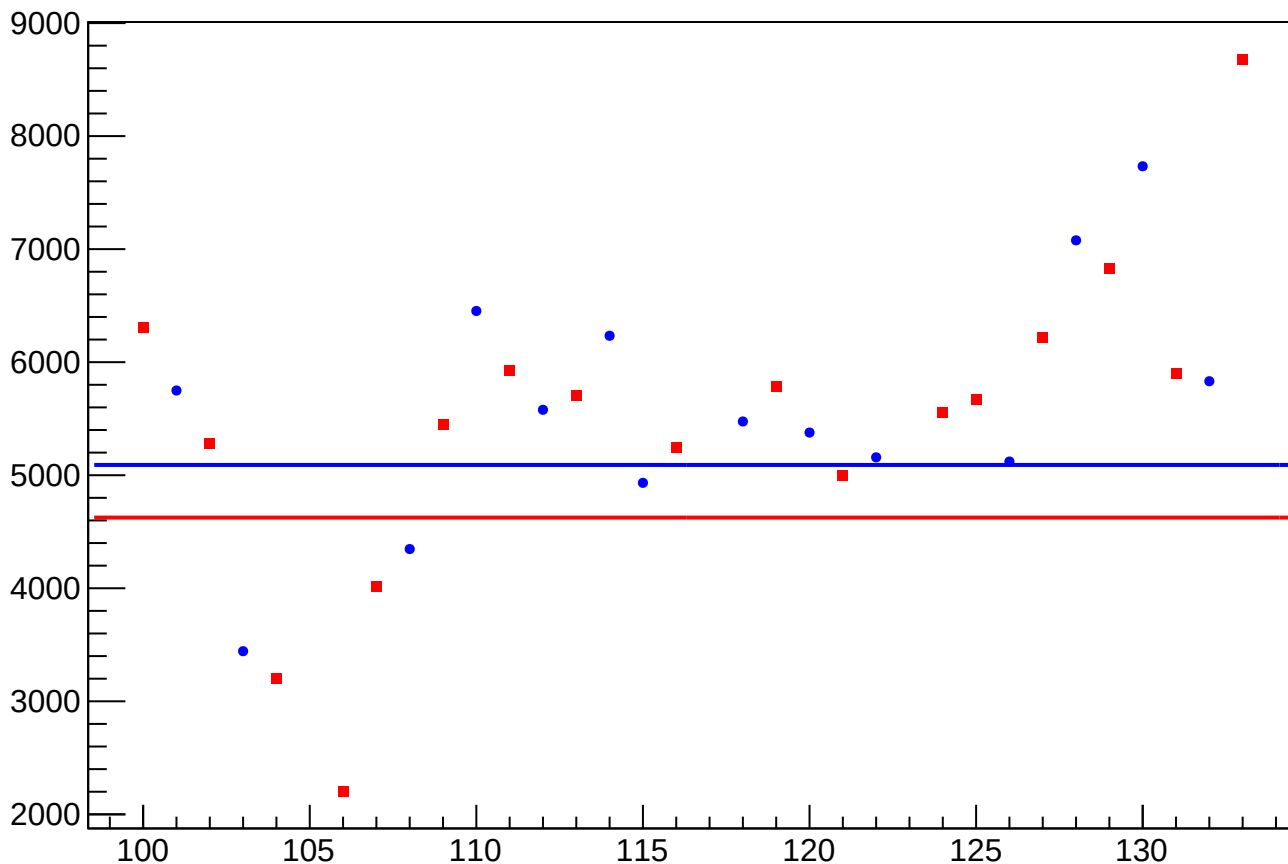
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 239.480 $\pm$ 1458.754  $\chi^2$ /NDF: 33.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_avg\_rms vs Slug



Right In: 5090.980+/-1.516  $\chi^2/\text{NDF}$ : 586613.9/13

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

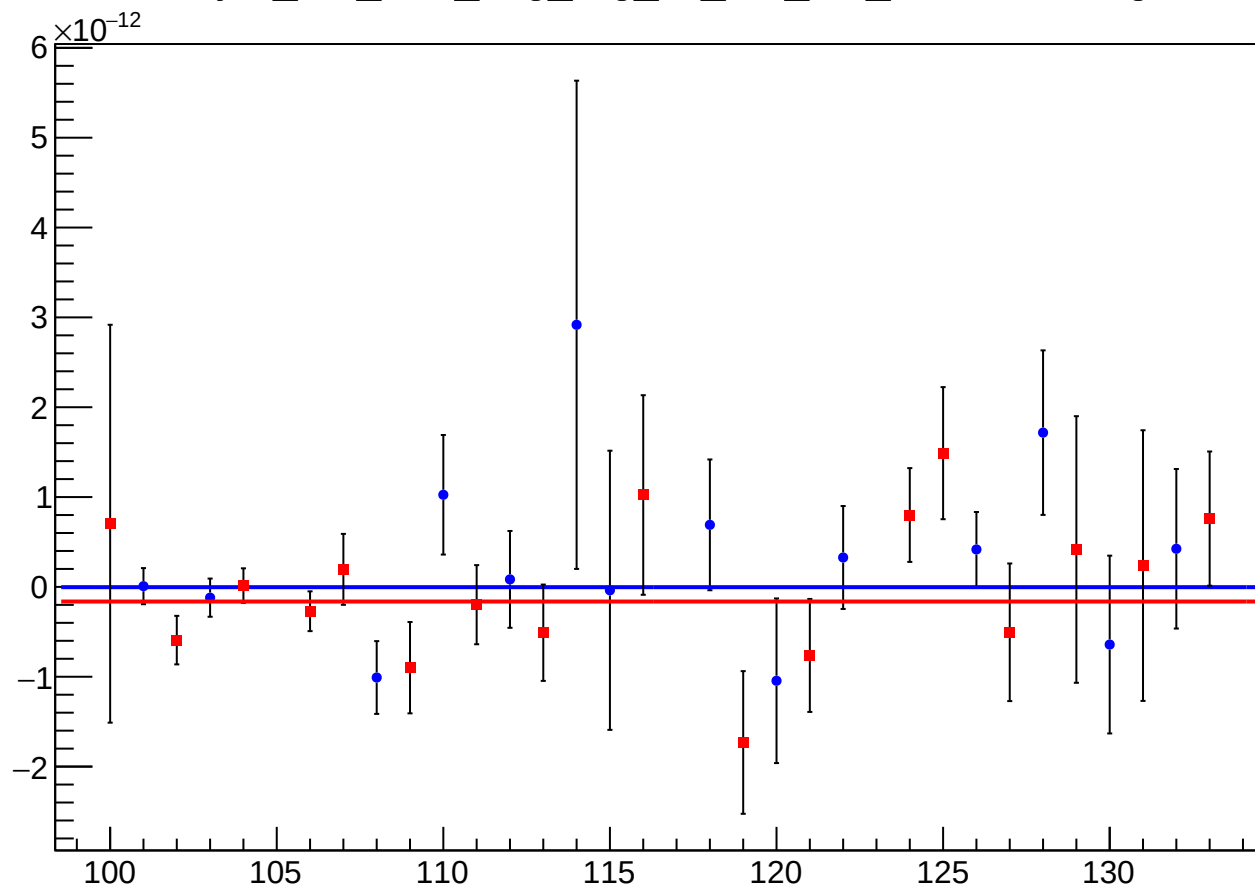
Right Out: 4625.246+/-1.348  $\chi^2/\text{NDF}$ : 1340844.8/16

All: 4830.833+/-1.007  $\chi^2/\text{NDF}$ : 1980177.4/30

- 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\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 17.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 23.5/16

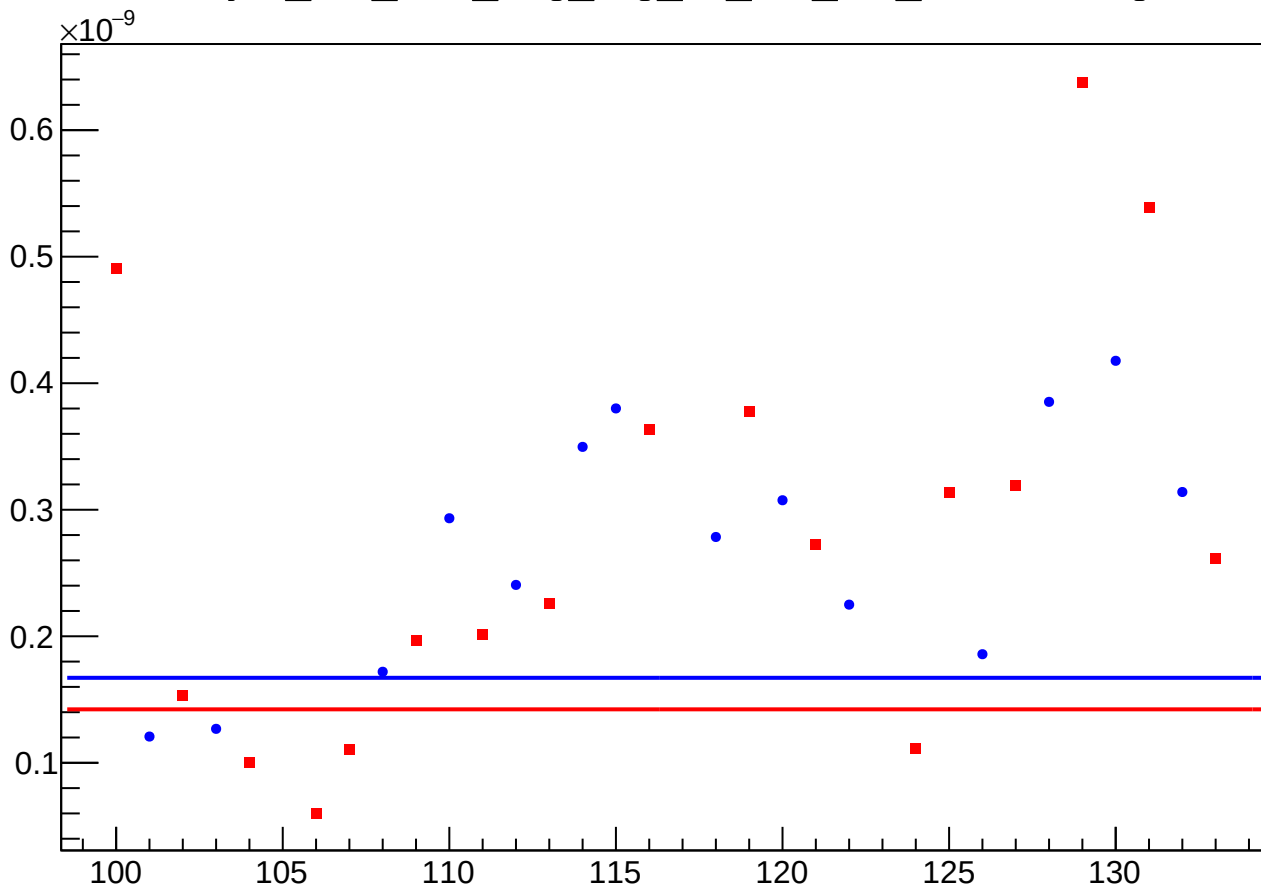
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 42.3/30

- sign 0.000+/-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  $\chi^2/\text{NDF}$ : 749020.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1524848.2/16

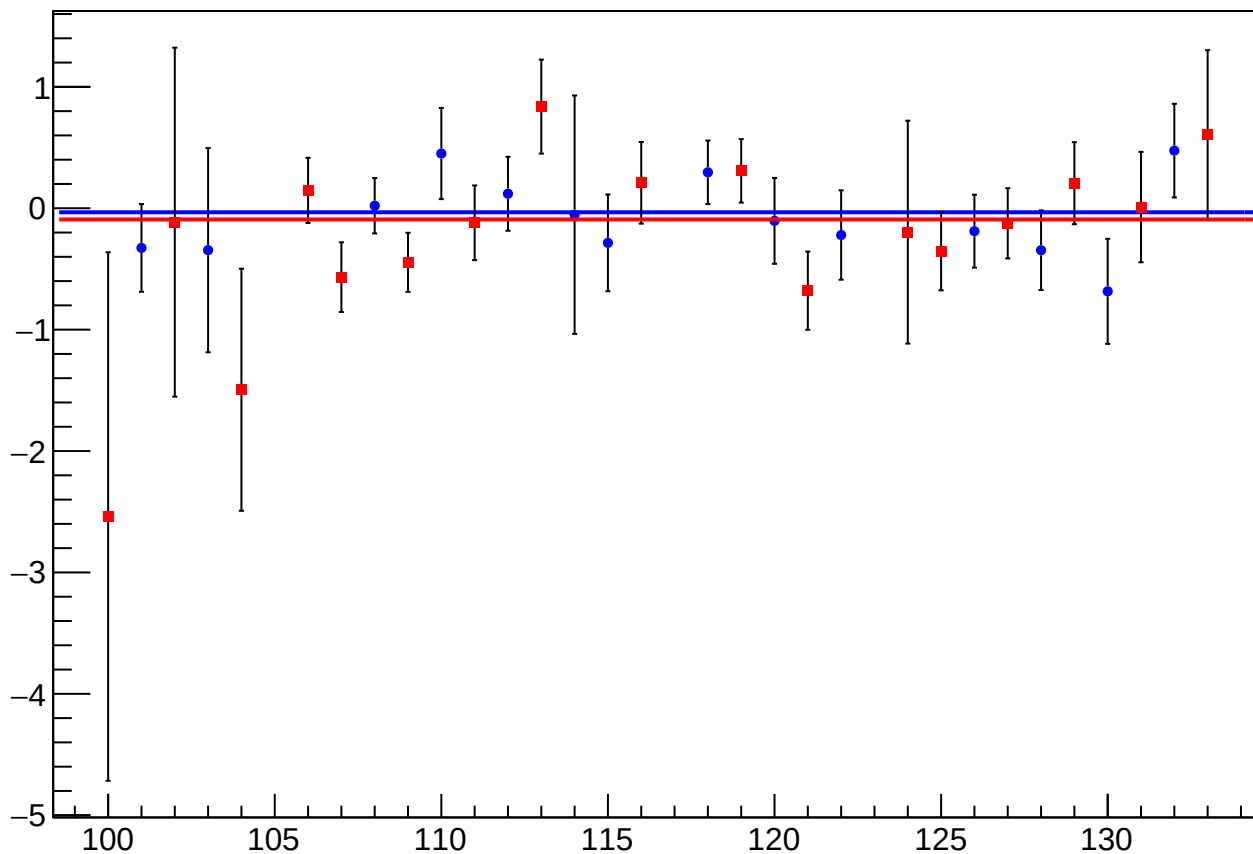
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2325812.3/30

- 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: -0.033+/-0.093  $\chi^2/\text{NDF}$ : 10.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.092+/-0.087  $\chi^2/\text{NDF}$ : 23.6/16

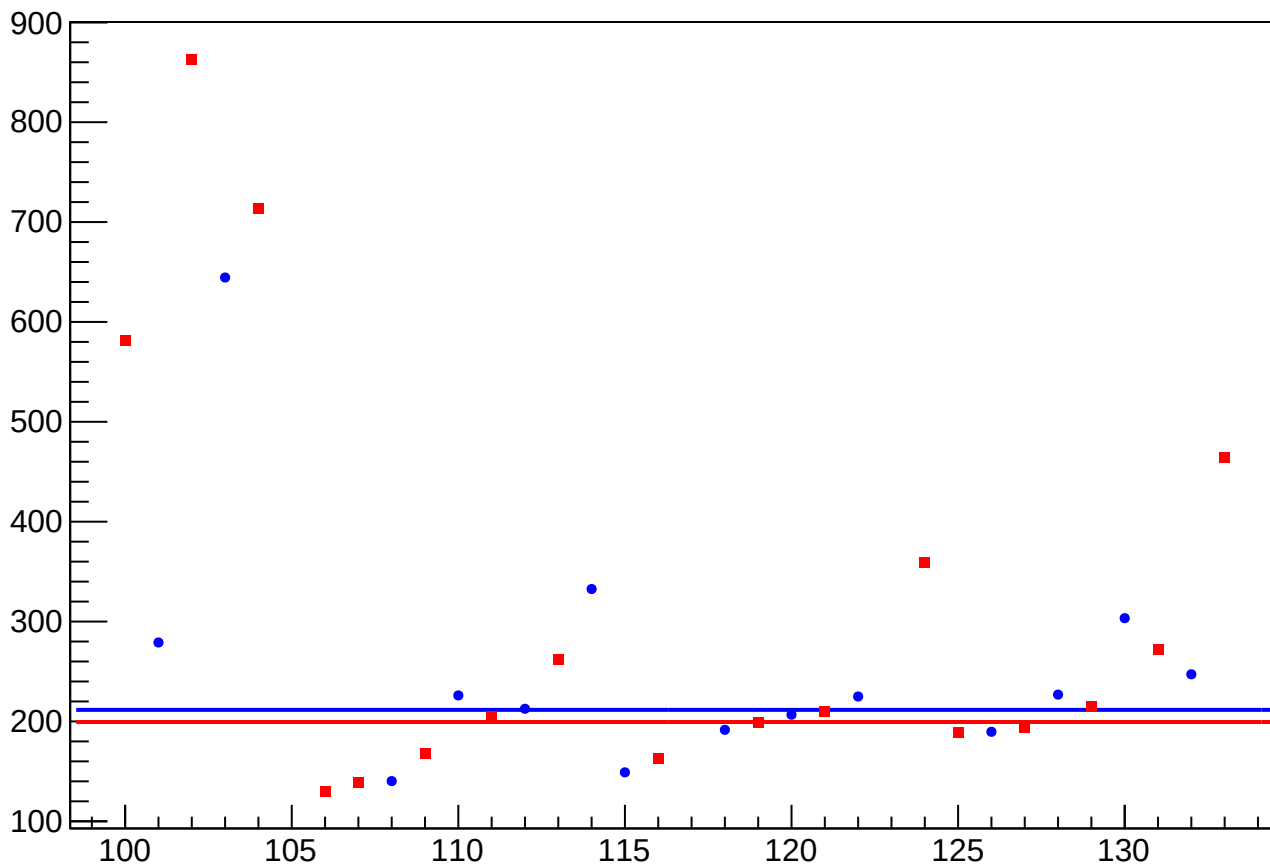
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.065+/-0.063  $\chi^2/\text{NDF}$ : 34.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 211.569+/-0.066  $\chi^2/\text{NDF}$ : 1013954.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 199.421+/-0.061  $\chi^2/\text{NDF}$ : 1760366.3/16

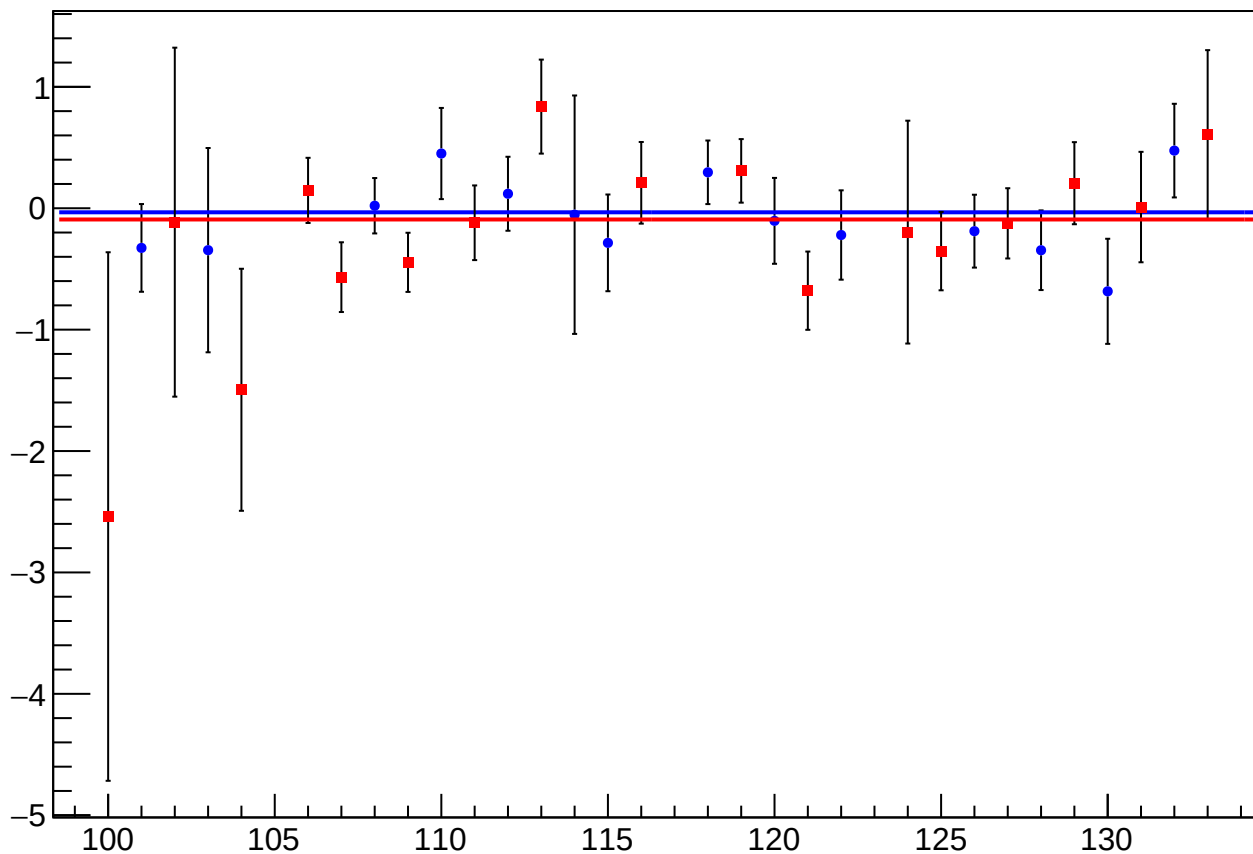
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 205.073+/-0.045  $\chi^2/\text{NDF}$ : 2792612.2/30

- 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: -0.033+/-0.093  $\chi^2/\text{NDF}$ : 10.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.092+/-0.087  $\chi^2/\text{NDF}$ : 23.6/16

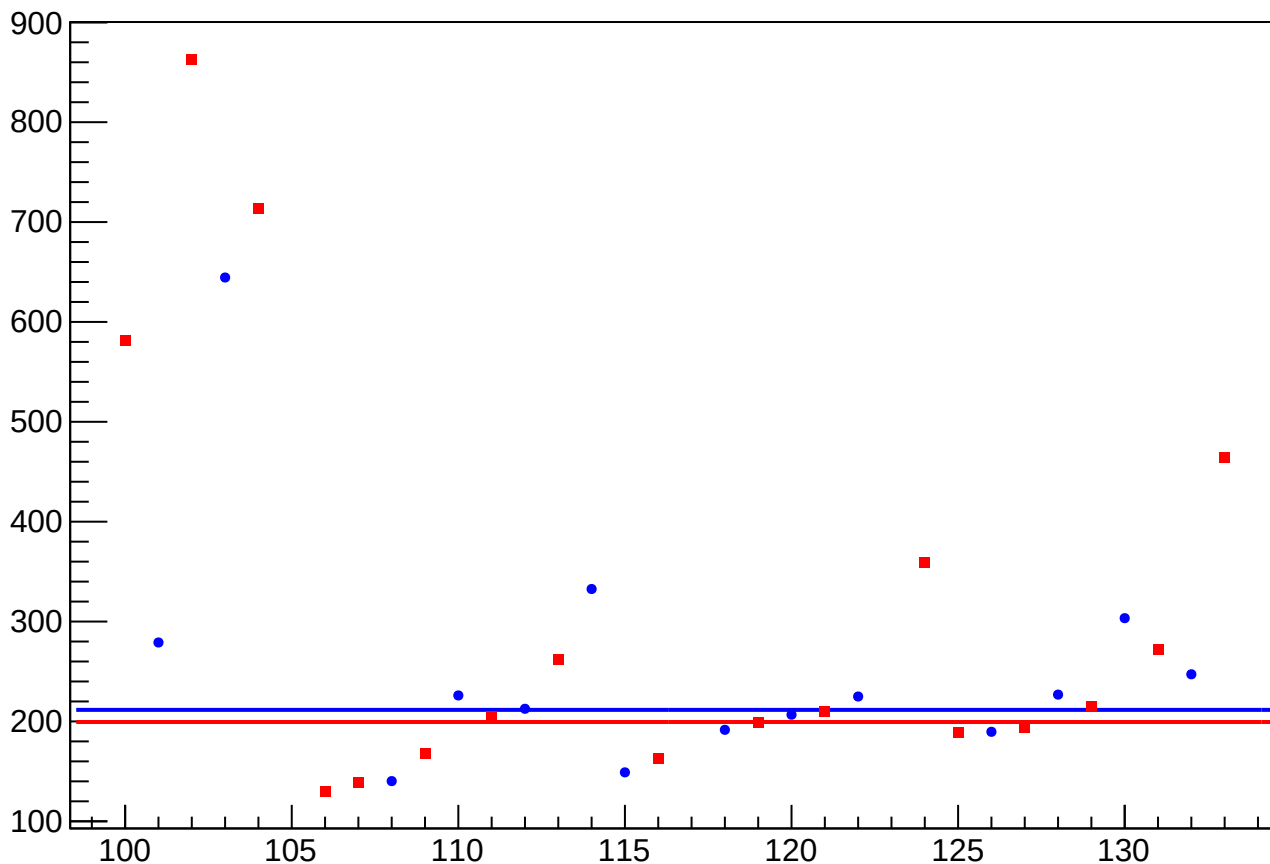
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.065+/-0.063  $\chi^2/\text{NDF}$ : 34.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 211.569+/-0.066  $\chi^2/\text{NDF}$ : 1013954.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 199.421+/-0.061  $\chi^2/\text{NDF}$ : 1760366.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

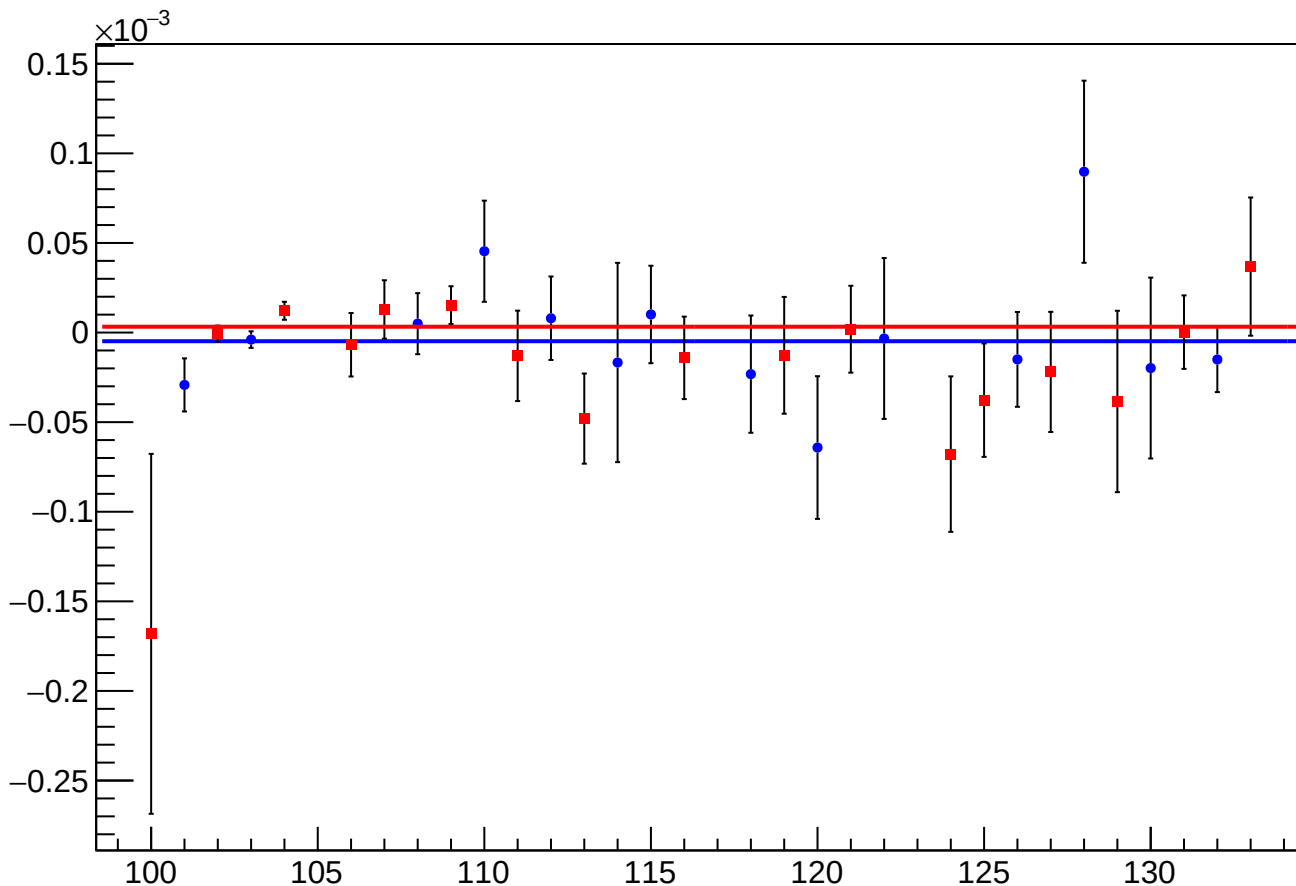
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 205.073+/-0.045  $\chi^2/\text{NDF}$ : 2792612.2/30

- 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+/-0.000  $\chi^2/\text{NDF}$ : 13.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.5/16

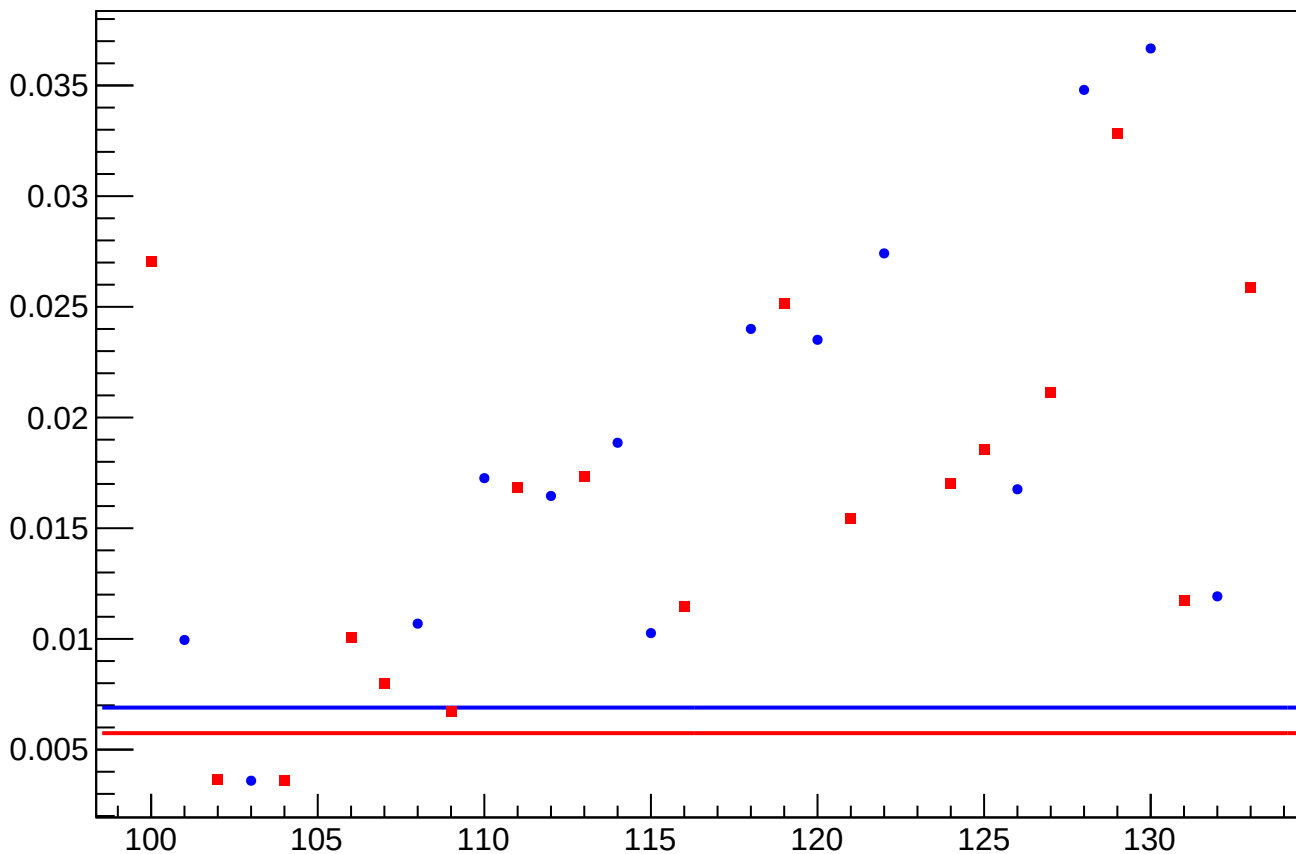
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 36.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 4976012.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 5177911.0/16

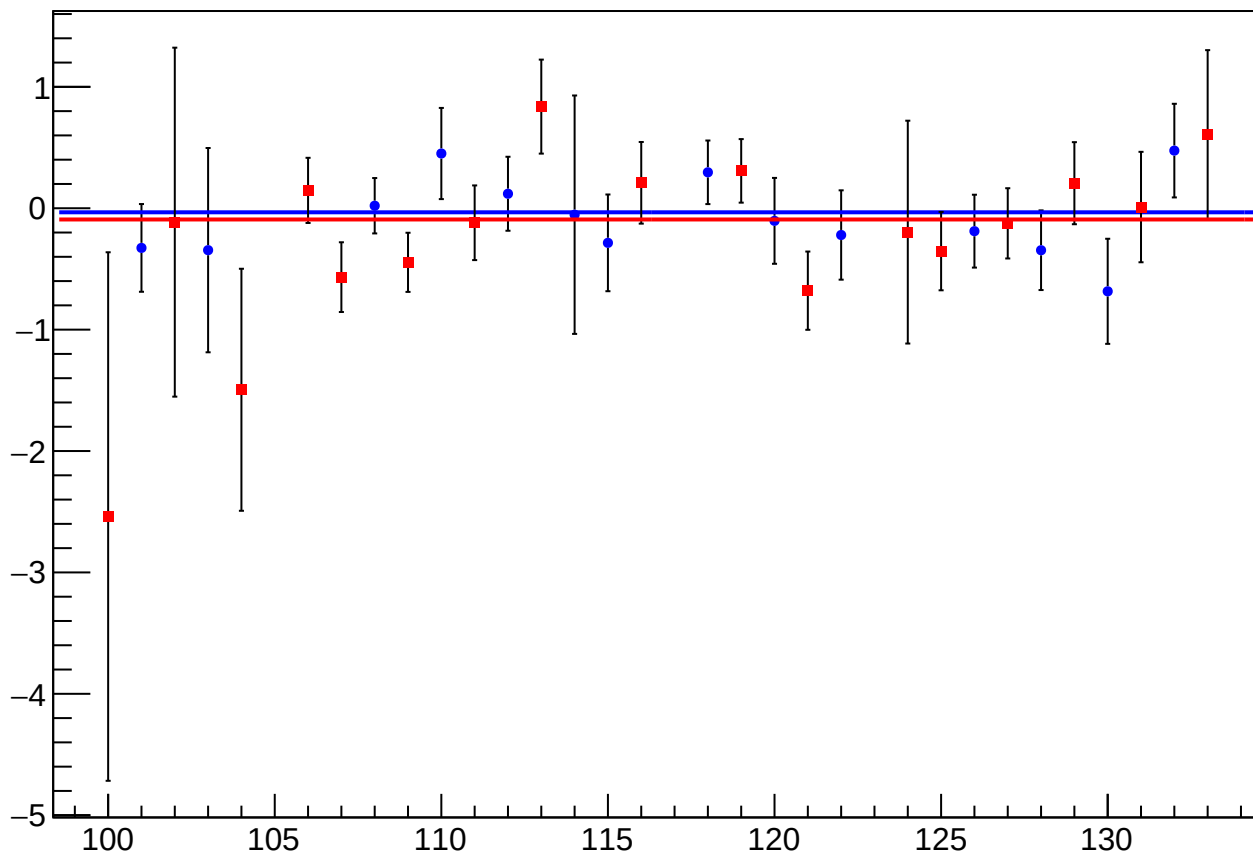
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 10267459.0/30

- 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: -0.033+/-0.093  $\chi^2/\text{NDF}$ : 10.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.092+/-0.087  $\chi^2/\text{NDF}$ : 23.6/16

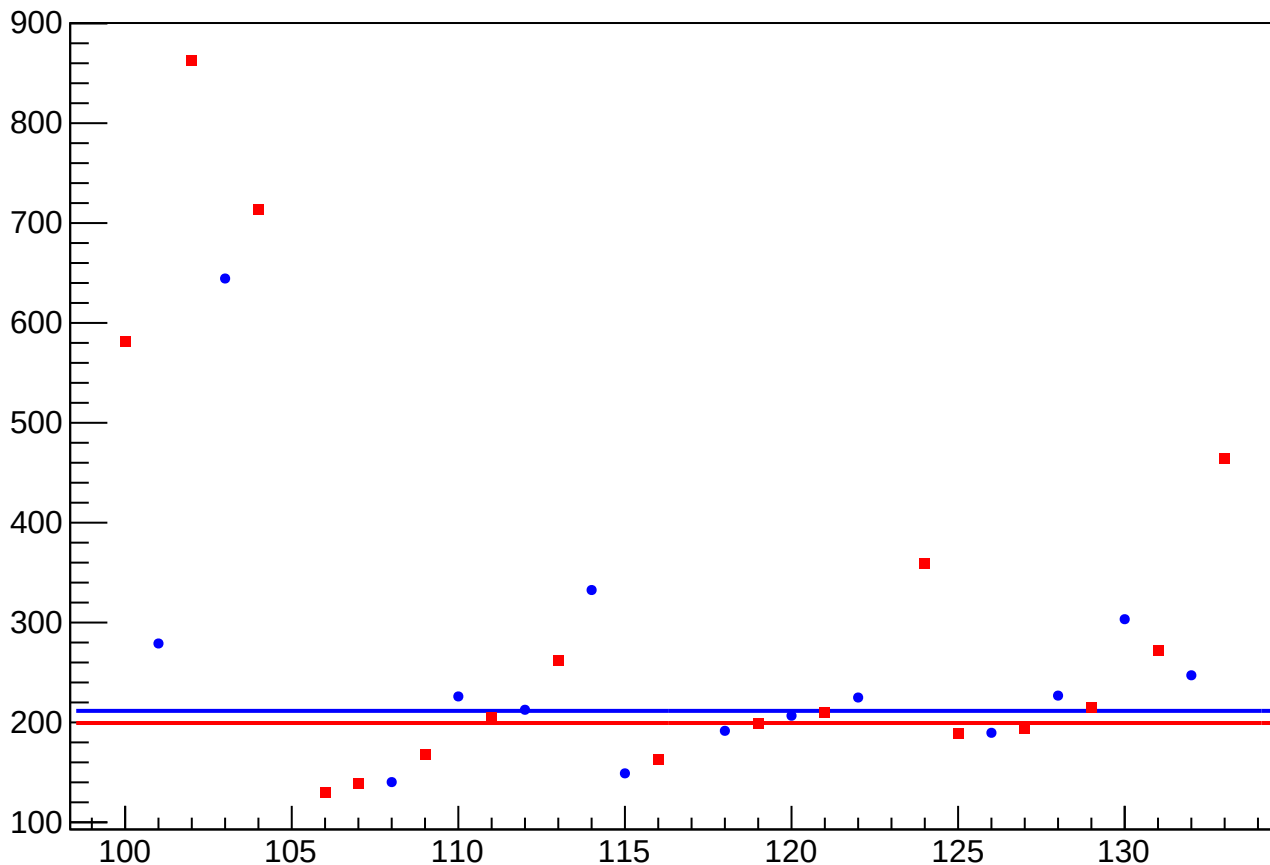
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.065+/-0.063  $\chi^2/\text{NDF}$ : 34.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 211.567+/-0.066  $\chi^2/\text{NDF}$ : 1013918.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 199.419+/-0.061  $\chi^2/\text{NDF}$ : 1760335.8/16

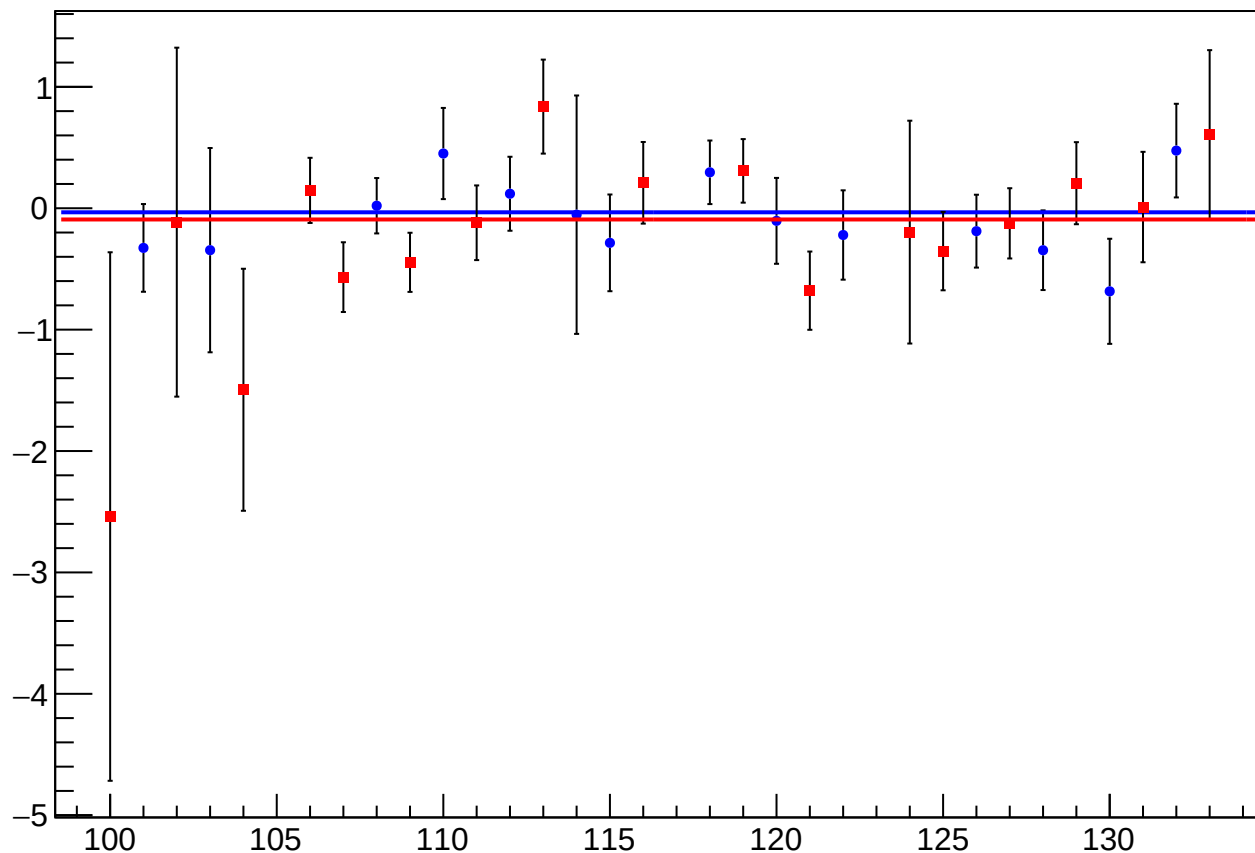
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 205.071+/-0.045  $\chi^2/\text{NDF}$ : 2792545.7/30

- 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:  $-0.033 \pm 0.093$   $\chi^2/\text{NDF}$ : 10.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.092 \pm 0.087$   $\chi^2/\text{NDF}$ : 23.6/16

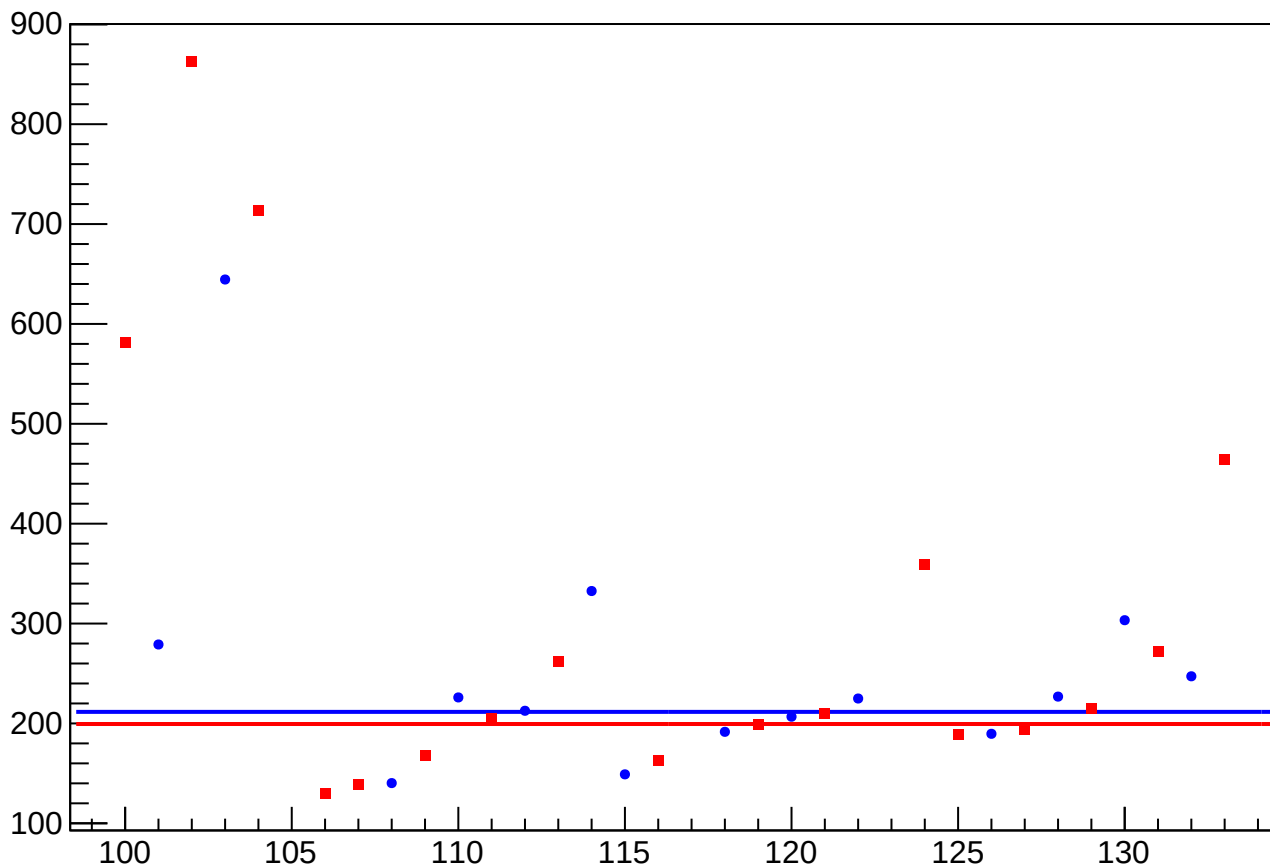
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.065 \pm 0.063$   $\chi^2/\text{NDF}$ : 34.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 211.567 $\pm$ 0.066  $\chi^2$ /NDF: 1013918.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 199.419 $\pm$ 0.061  $\chi^2$ /NDF: 1760335.8/16

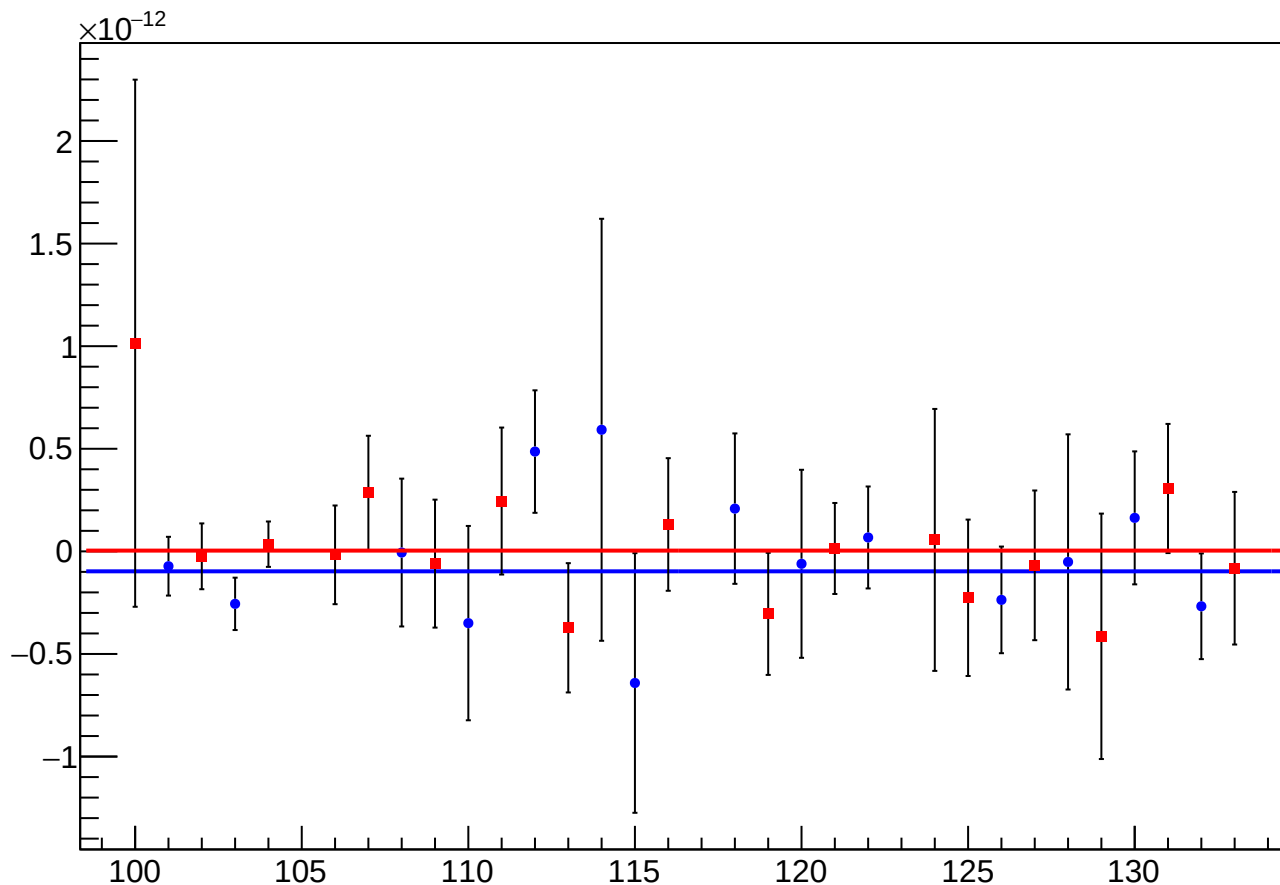
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 205.071 $\pm$ 0.045  $\chi^2$ /NDF: 2792545.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 9.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 6.8/16

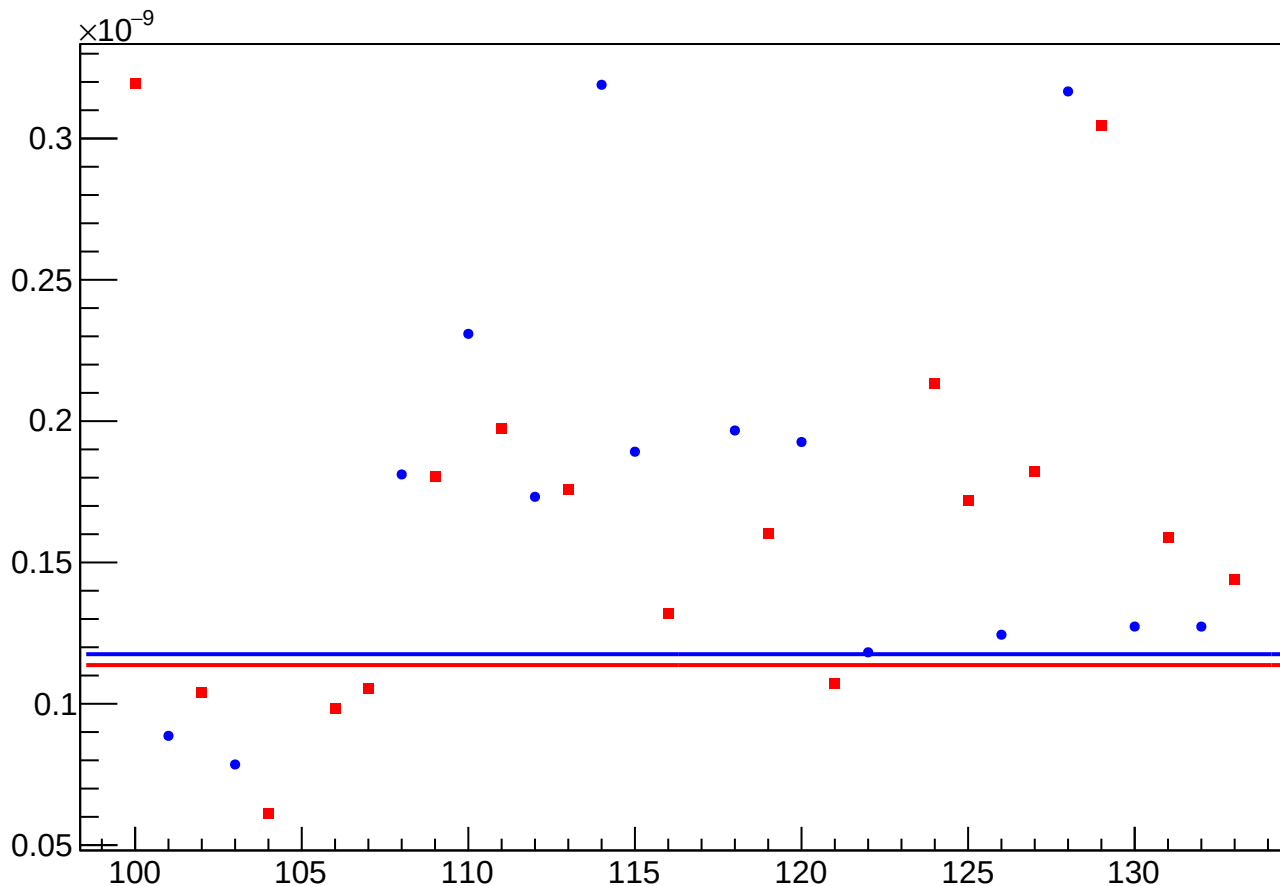
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 17.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 975381.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1281288.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

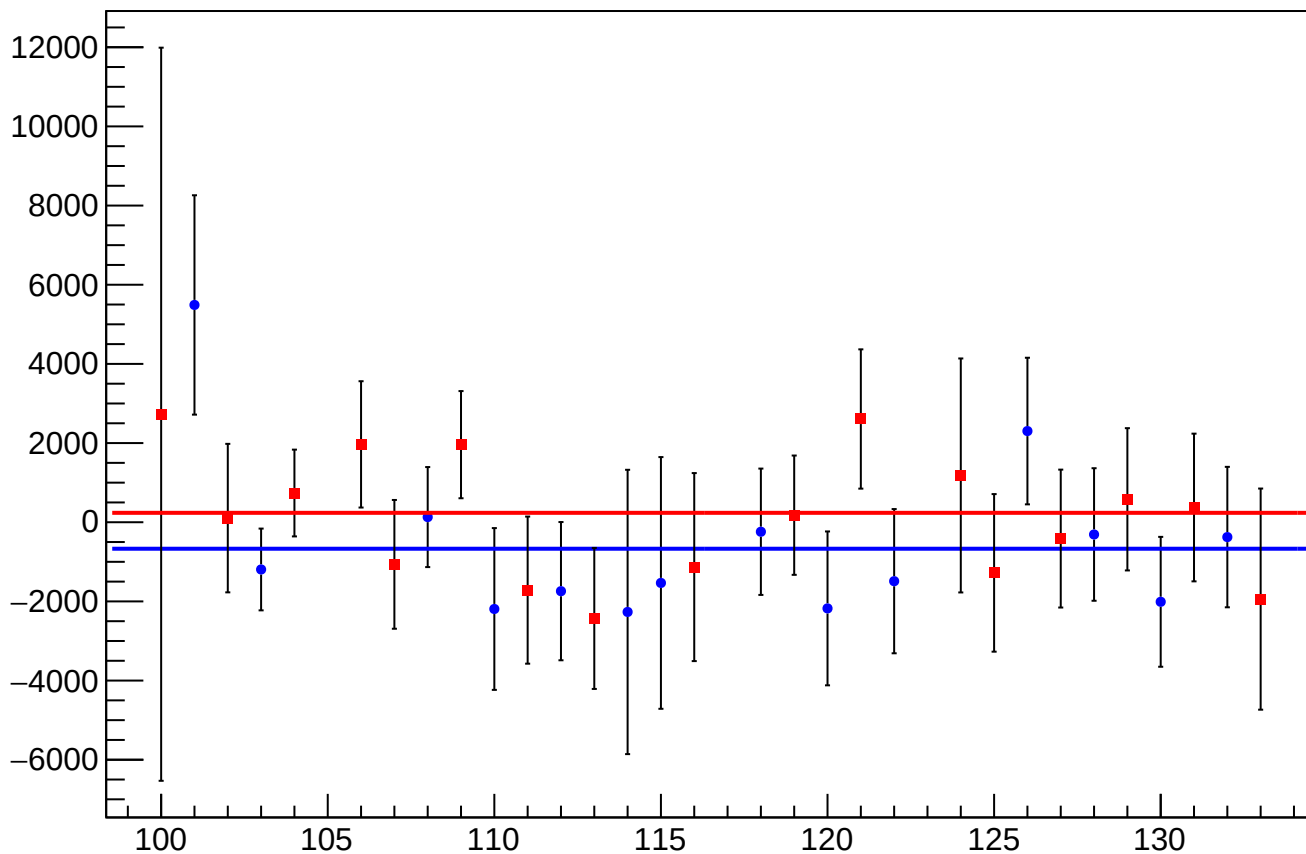
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2260077.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usr\_atr2\_dd\_mean vs Slug



Right In: -669.381+/-459.605  $\chi^2/\text{NDF}$ : 11.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 237.709+/-429.861  $\chi^2/\text{NDF}$ : 10.7/16

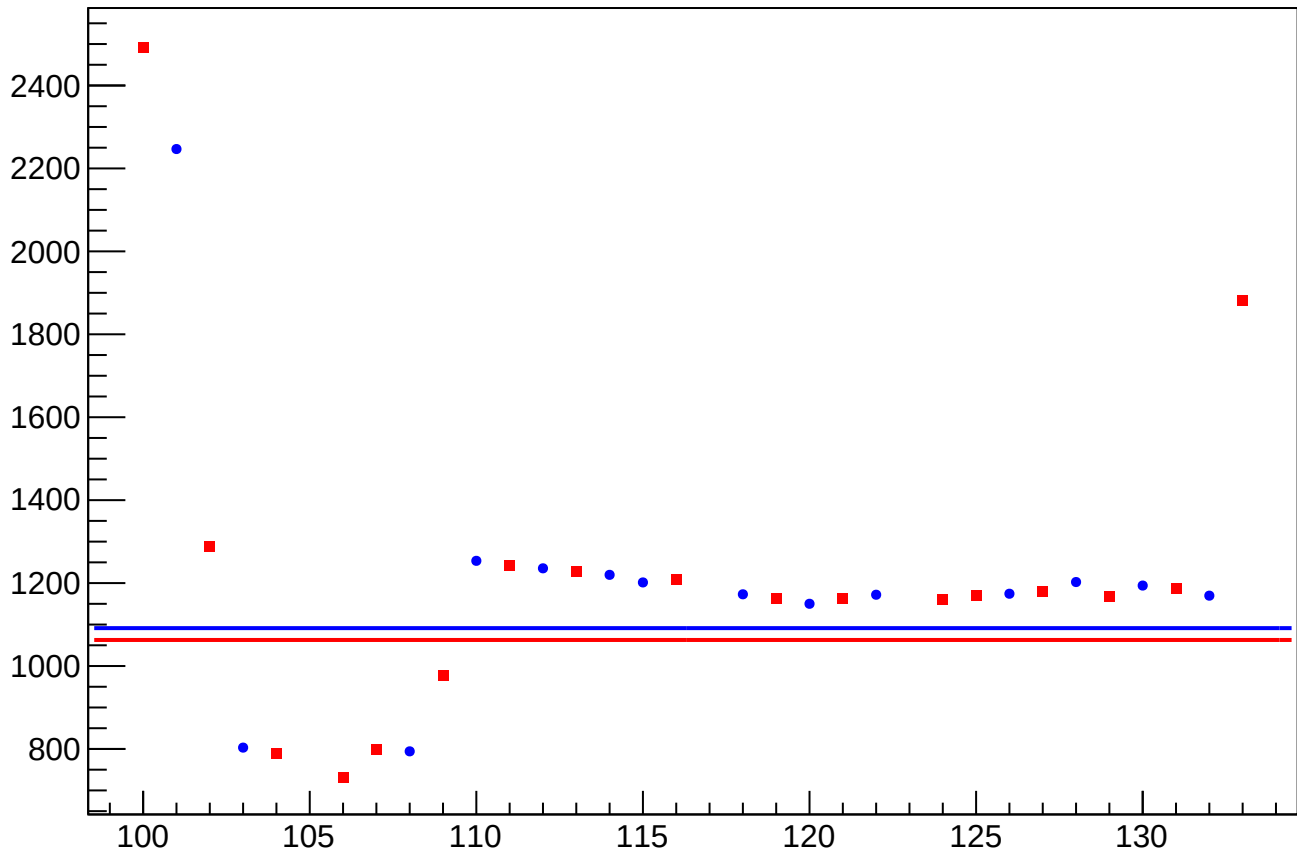
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -185.537+/-313.946  $\chi^2/\text{NDF}$ : 23.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 1091.377+/-0.325  $\chi^2/\text{NDF}$ : 680768.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1062.826+/-0.301  $\chi^2/\text{NDF}$ : 632265.9/16

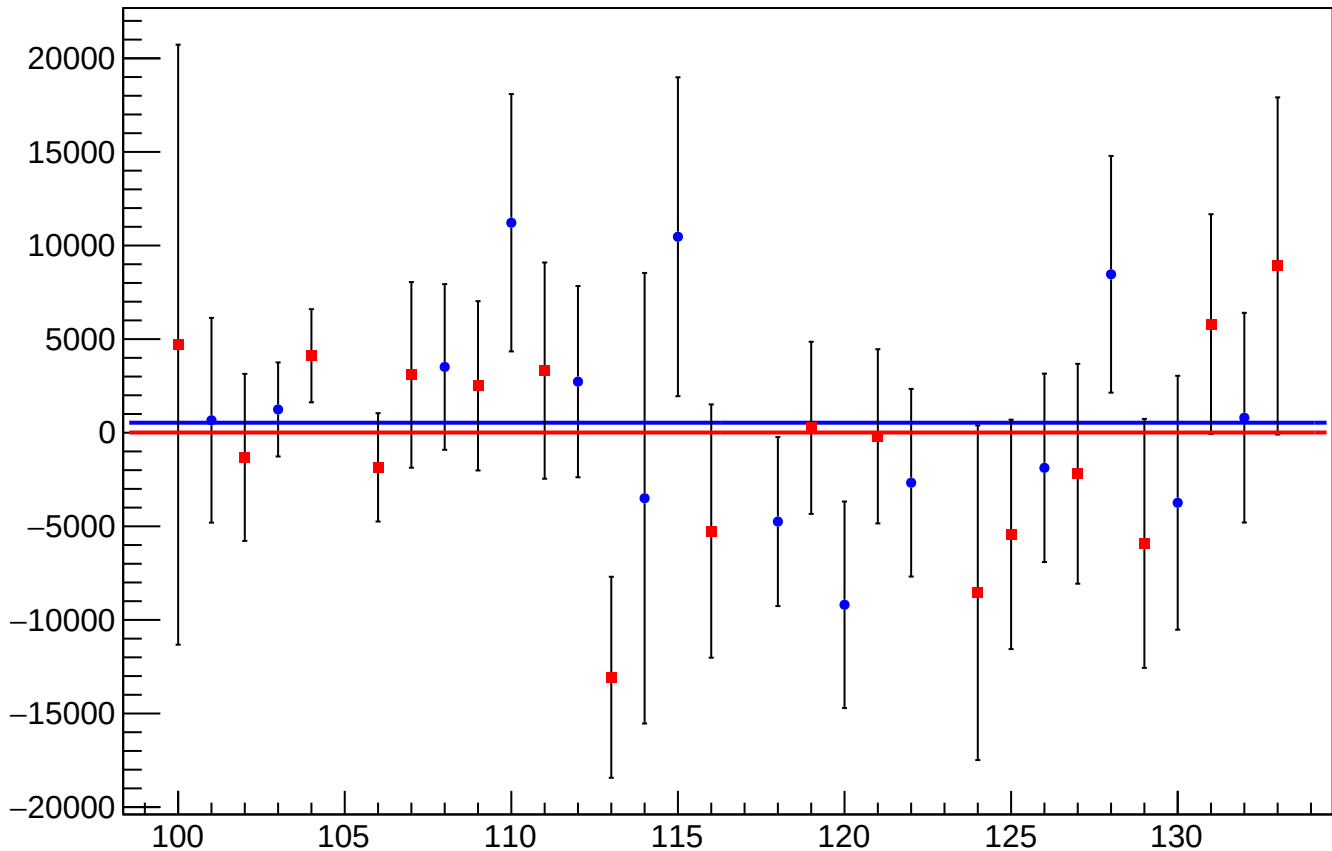
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1076.019+/-0.221  $\chi^2/\text{NDF}$ : 1317186.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_reg\_correction\_mean vs Slug



Right In: 535.002 $\pm$ 1332.787  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.642 $\pm$ 1165.144  $\chi^2$ /NDF: 15.4/16

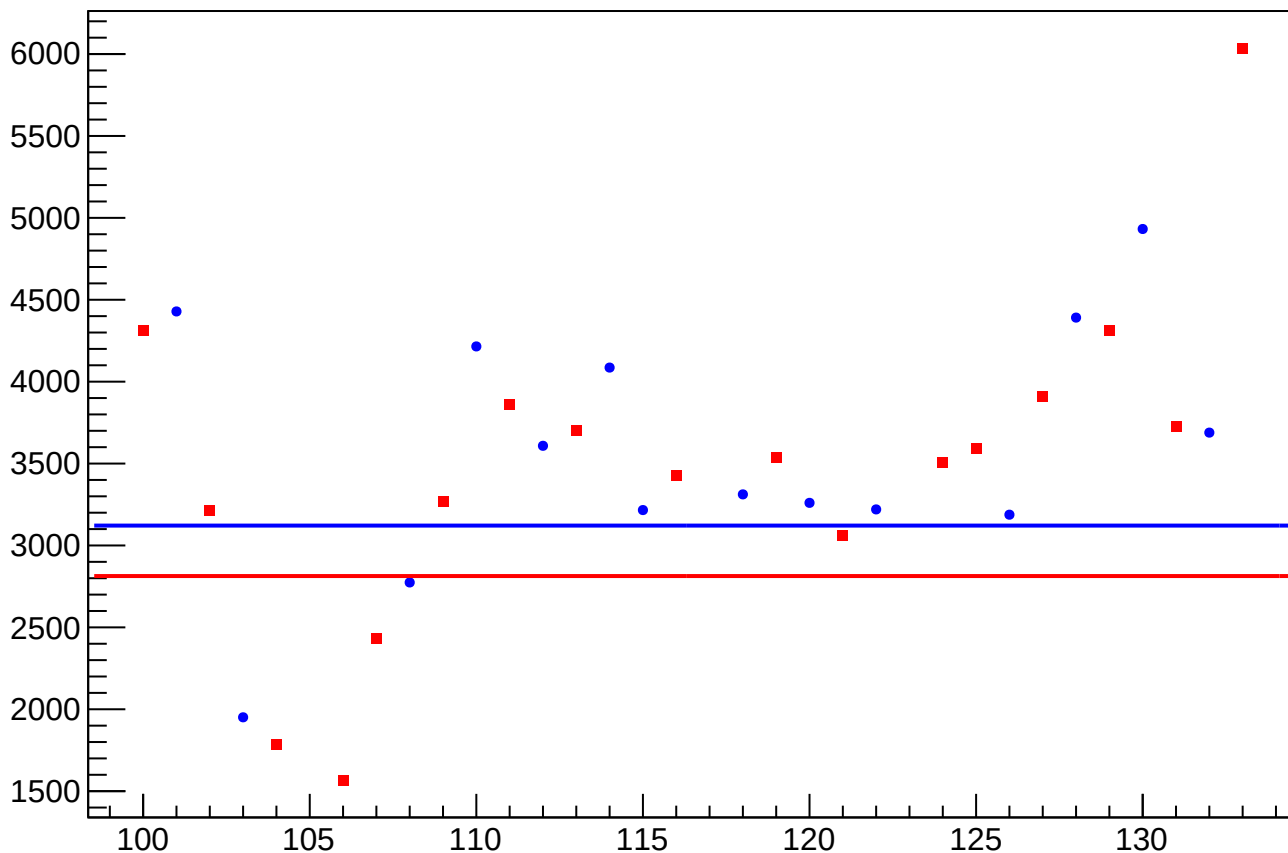
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 237.788 $\pm$ 877.201  $\chi^2$ /NDF: 27.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_dd\_reg\_correction\_rms vs Slug



Right In: 3121.370+/-0.942  $\chi^2/\text{NDF}$ : 892307.1/13

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

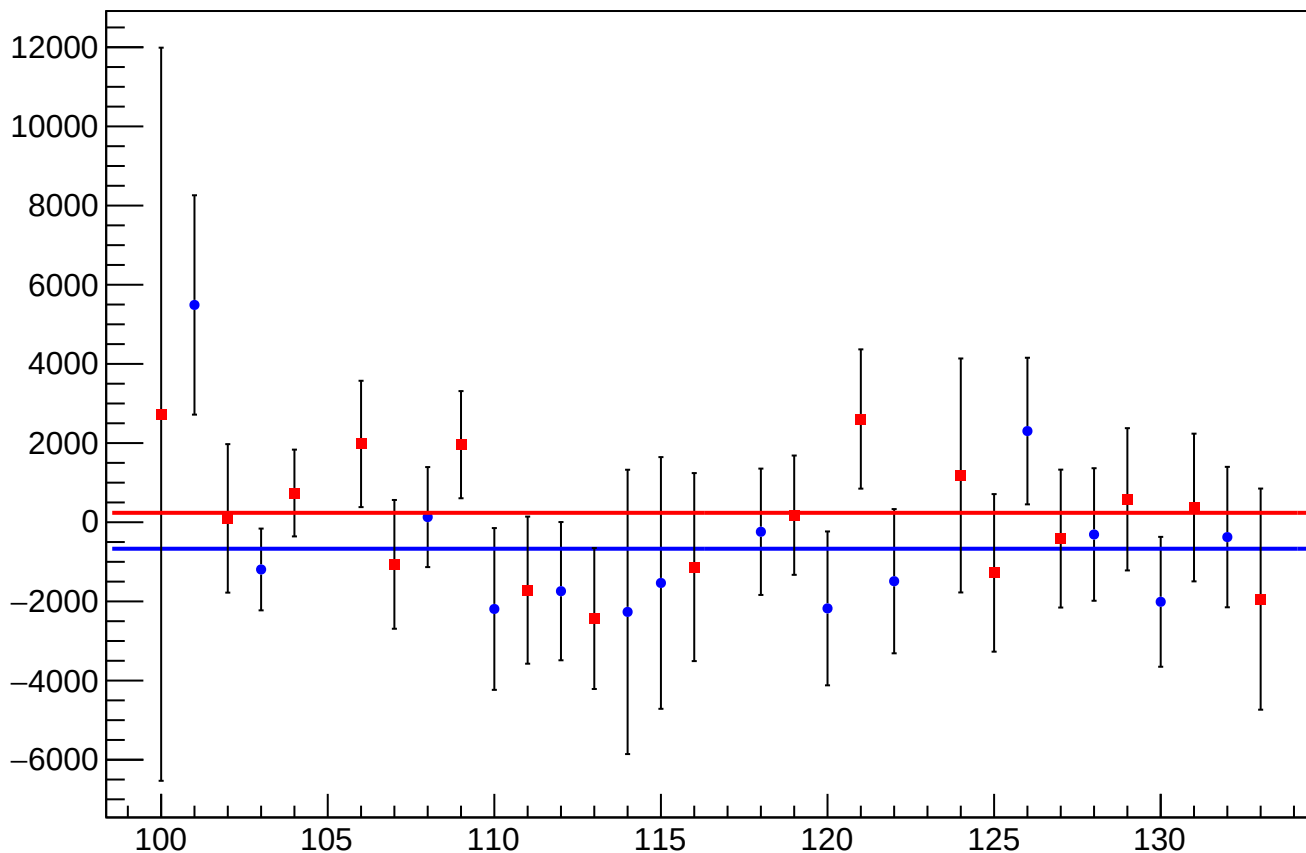
Right Out: 2813.283+/-0.824  $\chi^2/\text{NDF}$ : 1491586.6/16

All: 2946.743+/-0.620  $\chi^2/\text{NDF}$ : 2444468.8/30

- 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\_dd\_mean vs Slug



Right In: -669.284+/-459.605  $\chi^2/\text{NDF}$ : 11.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 238.026+/-429.866  $\chi^2/\text{NDF}$ : 10.7/16

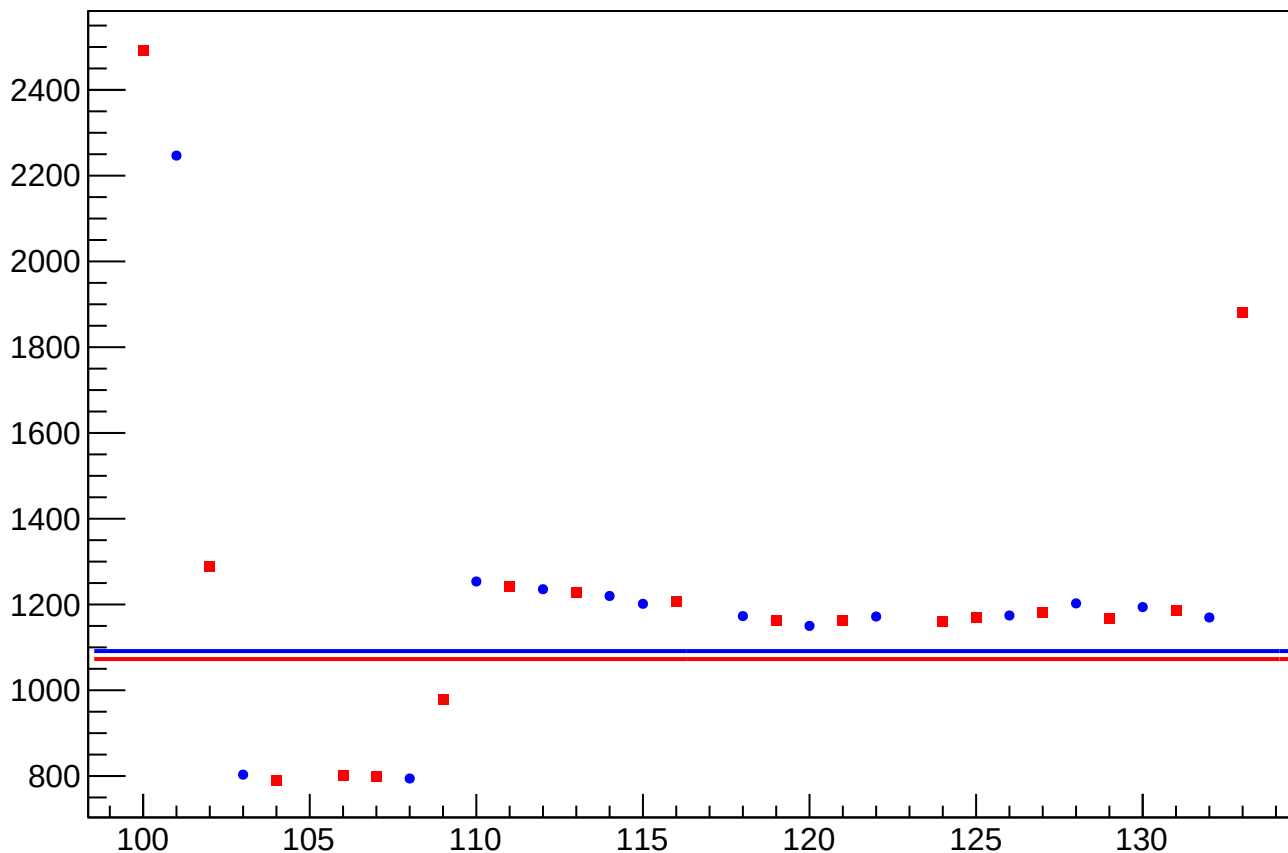
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -185.328+/-313.948  $\chi^2/\text{NDF}$ : 23.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 1091.378+/-0.325  $\chi^2/\text{NDF}$ : 680765.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1072.786+/-0.303  $\chi^2/\text{NDF}$ : 580187.0/16

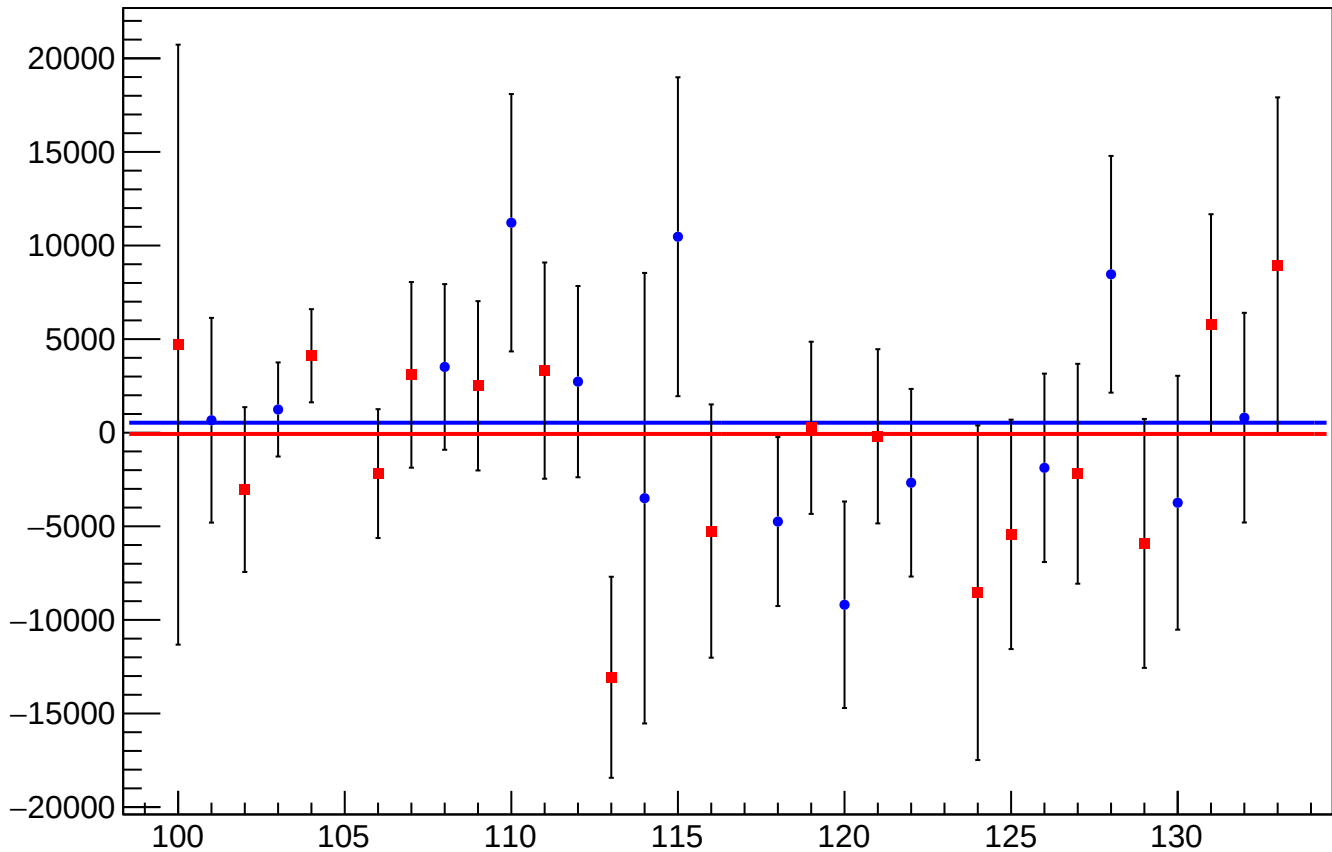
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1081.442+/-0.222  $\chi^2/\text{NDF}$ : 1262701.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_cor\_correction\_mean vs Slug



Right In:  $534.363 \pm 1332.851$   $\chi^2/\text{NDF}$ : 11.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-65.857 \pm 1192.690$   $\chi^2/\text{NDF}$ : 15.8/16

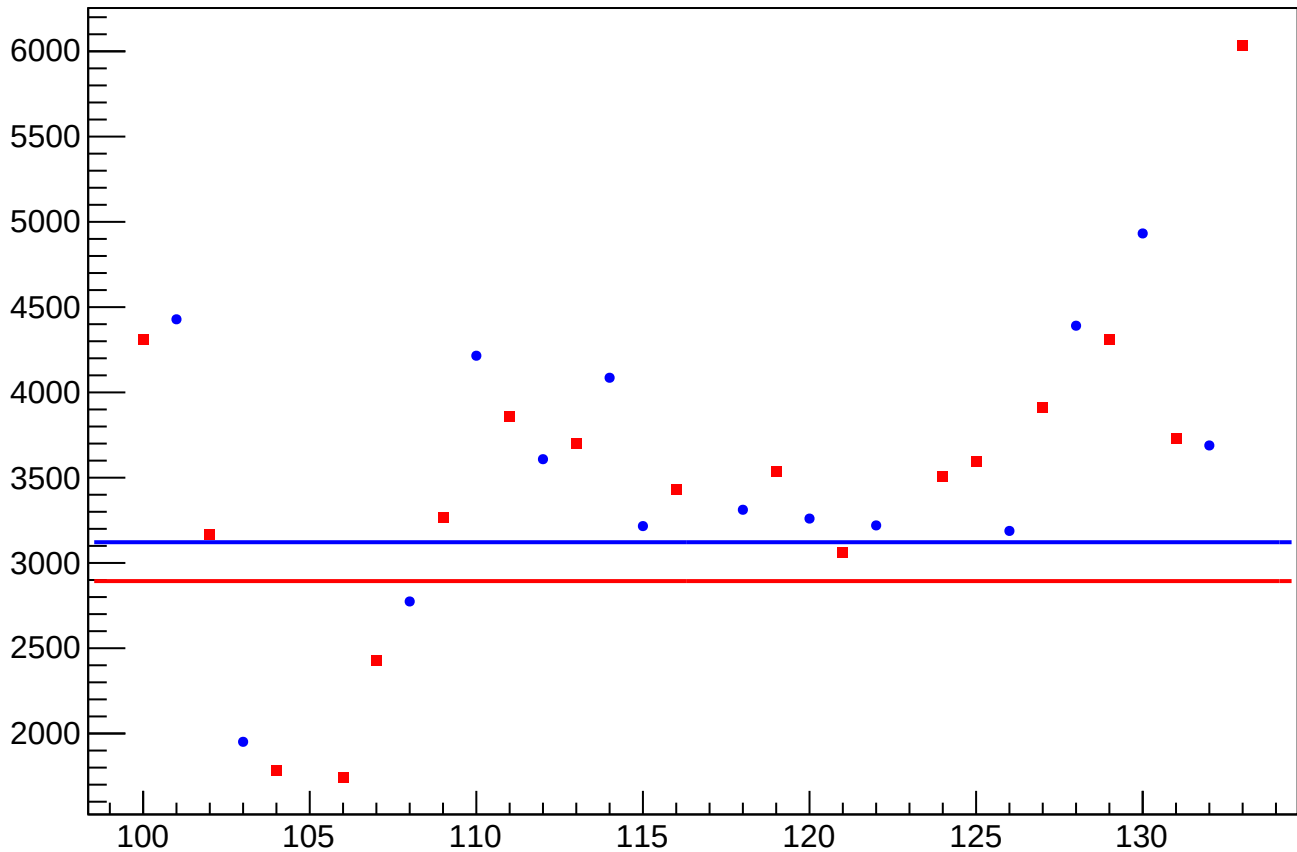
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $201.044 \pm 888.796$   $\chi^2/\text{NDF}$ : 27.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_cor\_correction\_rms vs Slug



Right In: 3121.581+/-0.942  $\chi^2/\text{NDF}$ : 891894.5/13

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: 2893.655+/-0.843  $\chi^2/\text{NDF}$ : 1300535.7/16

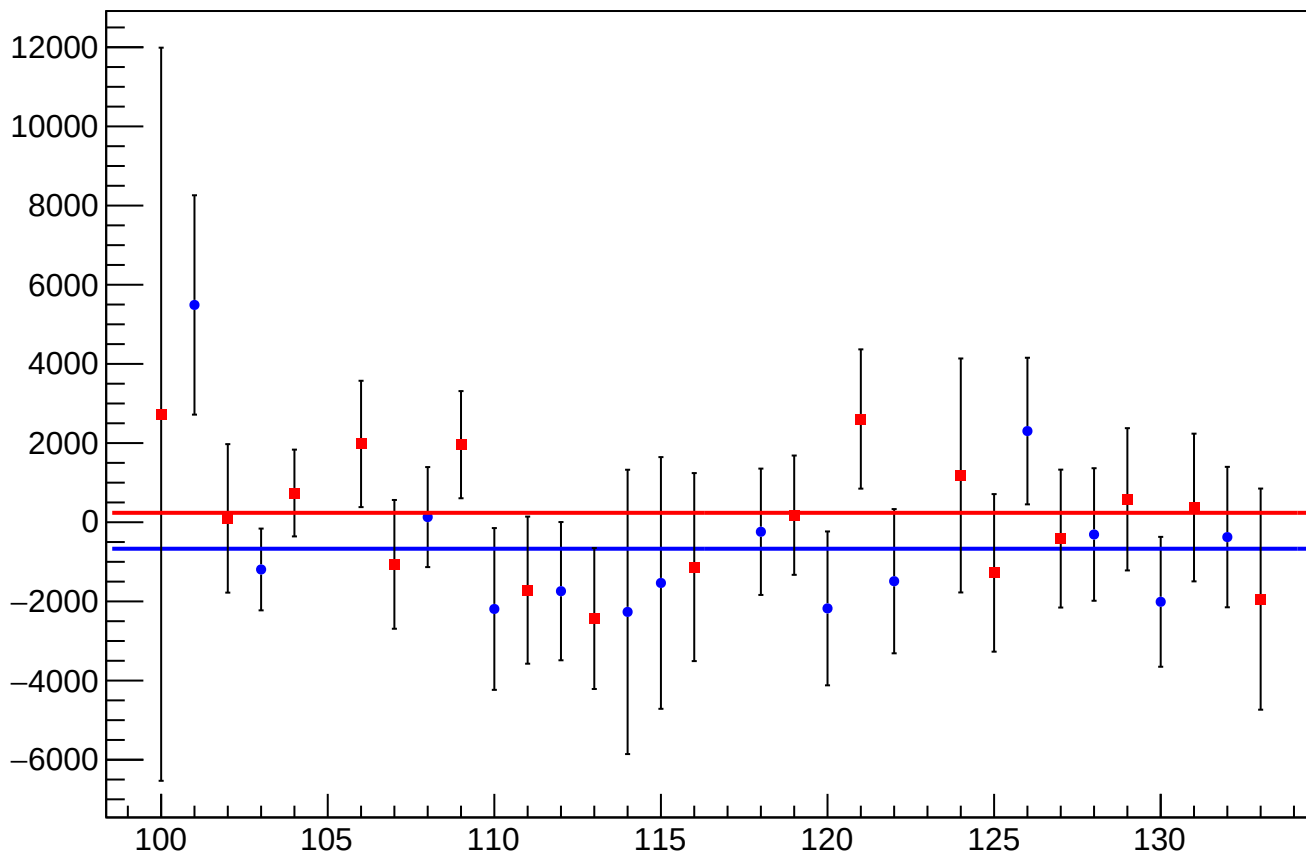
All: 2995.008+/-0.628  $\chi^2/\text{NDF}$ : 2224909.4/30

- 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\_usr\_atr2\_dd\_mean vs Slug



Right In: -669.284+/-459.605  $\chi^2/\text{NDF}$ : 11.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 238.026+/-429.866  $\chi^2/\text{NDF}$ : 10.7/16

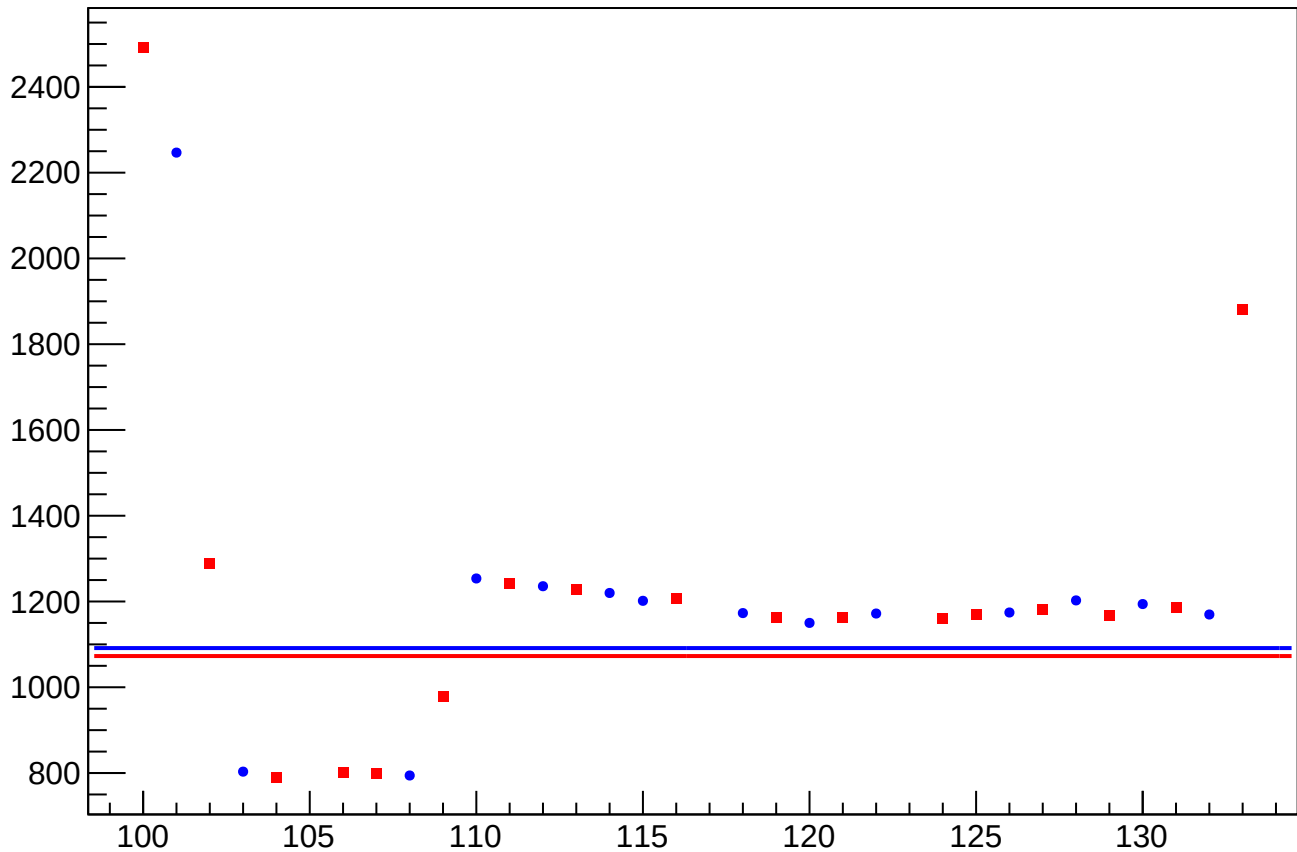
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -185.328+/-313.948  $\chi^2/\text{NDF}$ : 23.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 1091.378+/-0.325  $\chi^2/\text{NDF}$ : 680765.4/13

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

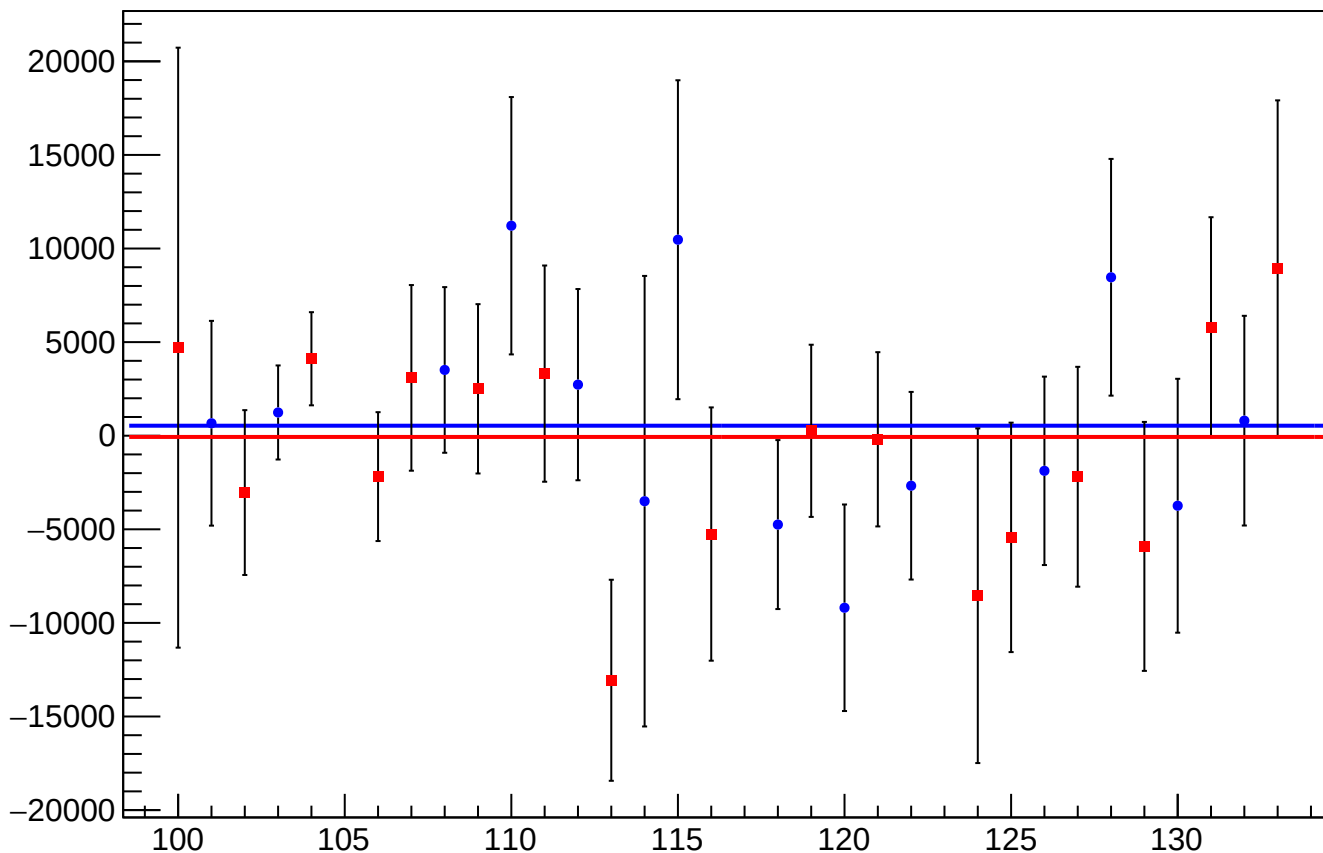
Right Out: 1072.786+/-0.303  $\chi^2/\text{NDF}$ : 580187.0/16

All: 1081.442+/-0.222  $\chi^2/\text{NDF}$ : 1262701.5/30

- 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: 534.363 $\pm$ 1332.851  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -65.857 $\pm$ 1192.690  $\chi^2$ /NDF: 15.8/16

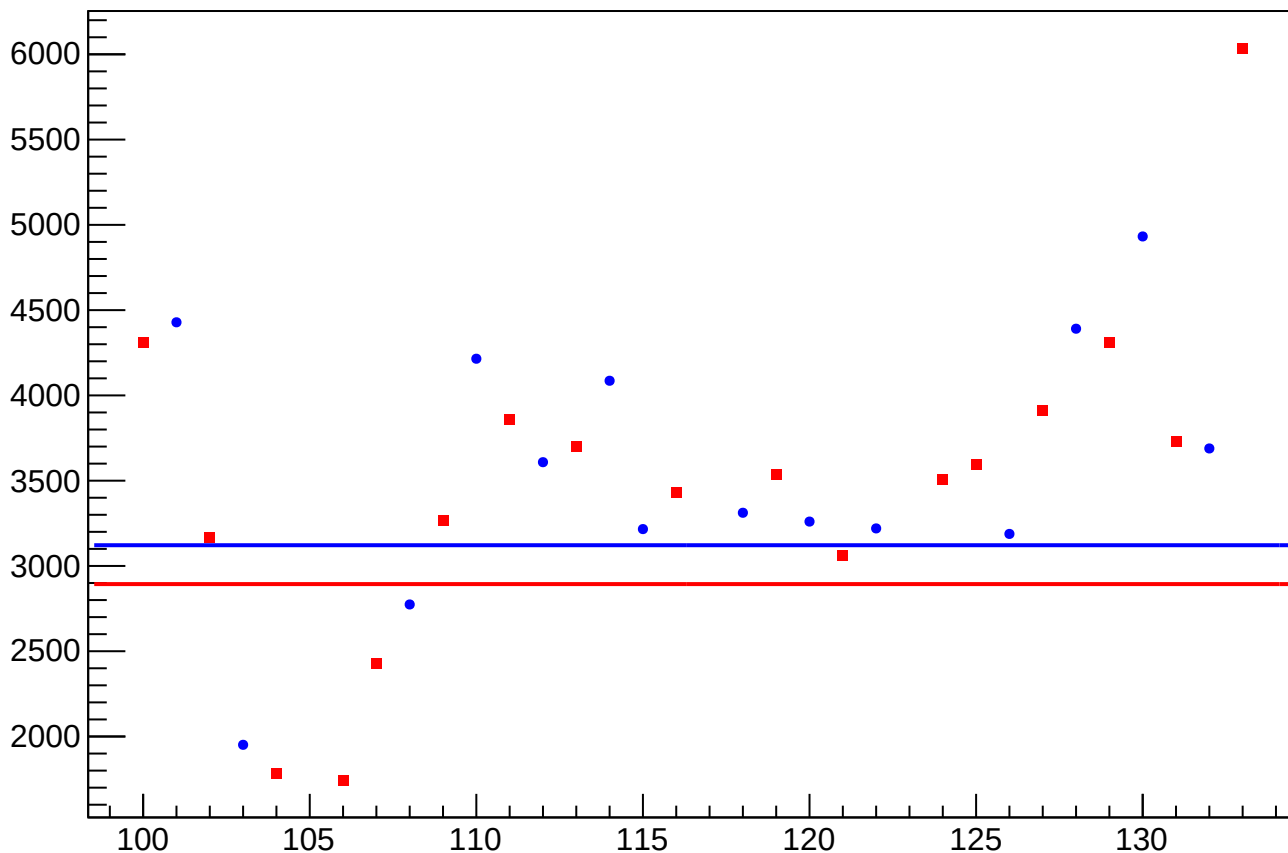
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 201.044 $\pm$ 888.796  $\chi^2$ /NDF: 27.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 3121.581+/-0.942  $\chi^2/\text{NDF}$ : 891894.5/13

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

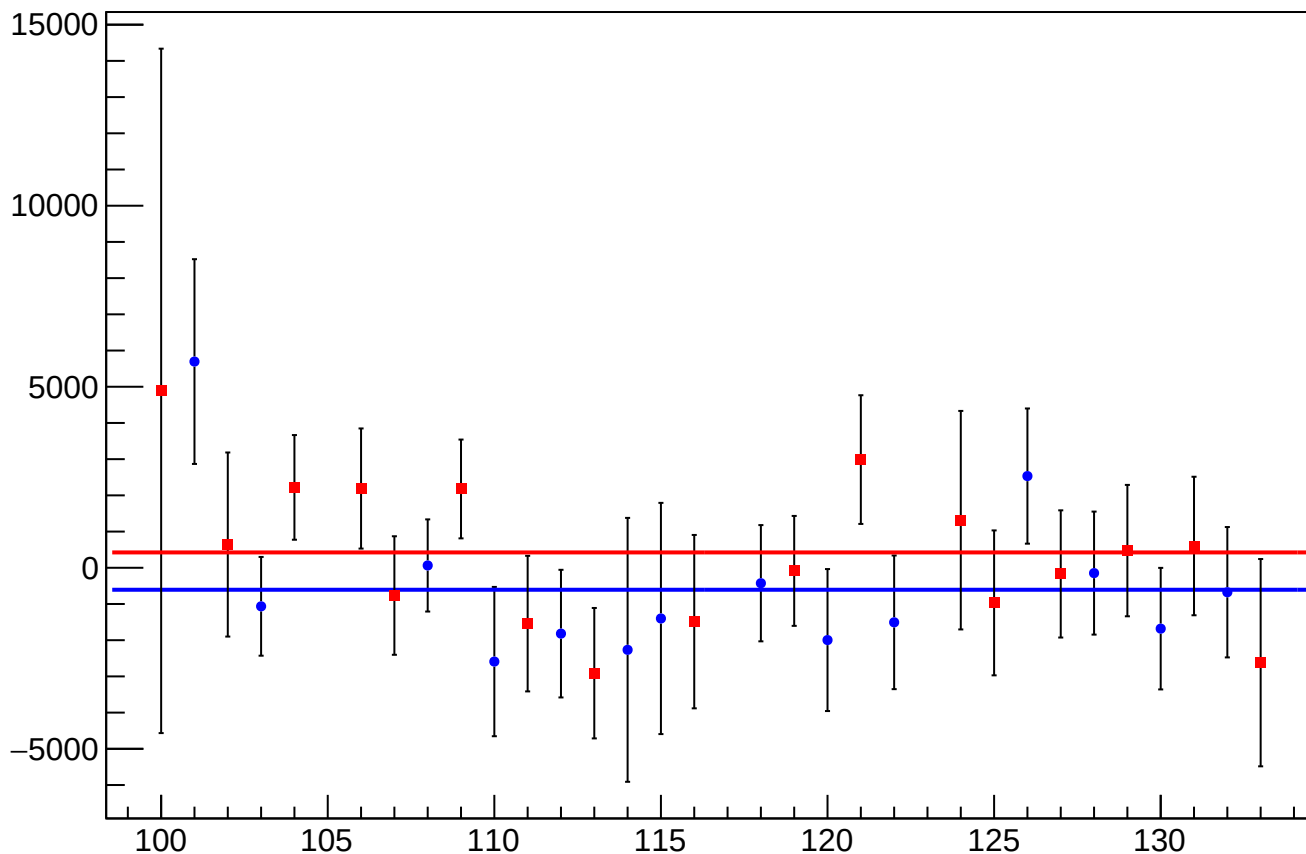
Right Out: 2893.655+/-0.843  $\chi^2/\text{NDF}$ : 1300535.7/16

All: 2995.008+/-0.628  $\chi^2/\text{NDF}$ : 2224909.4/30

- 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\_usr\_atr2\_dd\_mean vs Slug



Right In: -606.965+/-485.117  $\chi^2/\text{NDF}$ : 11.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 424.033+/-455.530  $\chi^2/\text{NDF}$ : 14.3/16

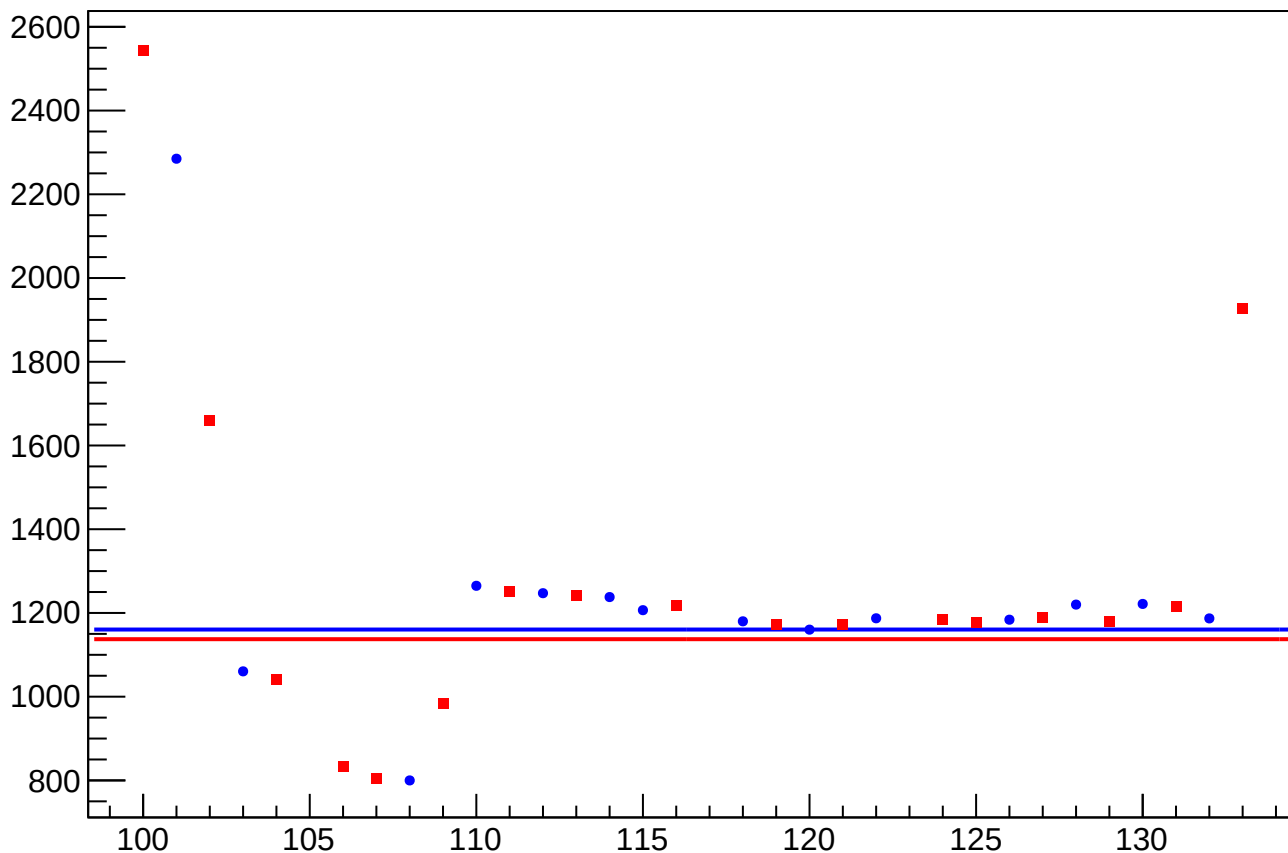
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -59.070+/-332.076  $\chi^2/\text{NDF}$ : 27.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 1160.400+/-0.343  $\chi^2/\text{NDF}$ : 505415.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1137.321+/-0.322  $\chi^2/\text{NDF}$ : 491705.5/16

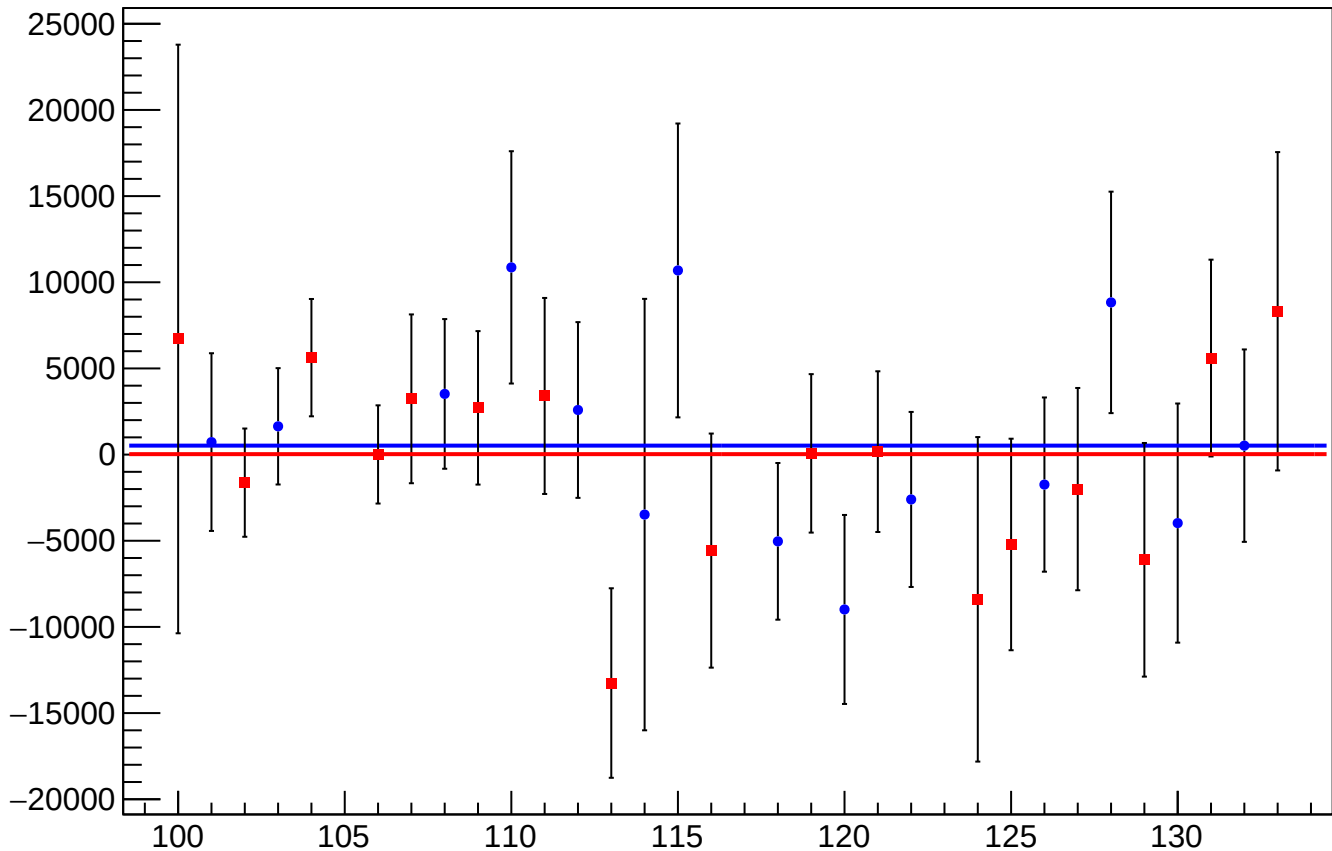
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1148.129+/-0.235  $\chi^2/\text{NDF}$ : 999527.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_dit\_correction\_mean vs Slug



Right In: 520.693+/-1420.494  $\chi^2/\text{NDF}$ : 11.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.994+/-1181.546  $\chi^2/\text{NDF}$ : 15.0/16

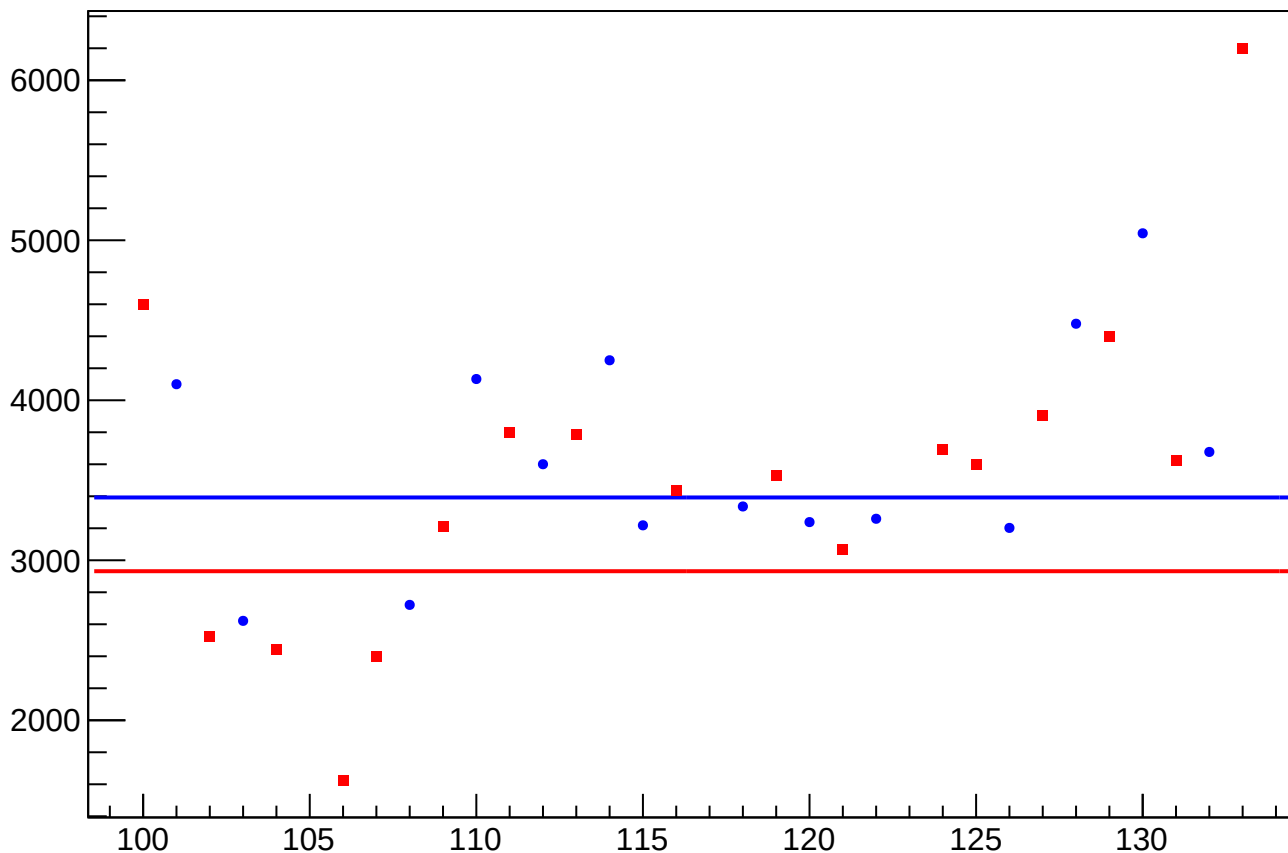
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 228.295+/-908.380  $\chi^2/\text{NDF}$ : 26.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_dit\_correction\_rms vs Slug



Right In: 3392.567 $\pm$ 1.004  $\chi^2$ /NDF: 409149.8/13

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: 2931.653 $\pm$ 0.835  $\chi^2$ /NDF: 1153715.5/16

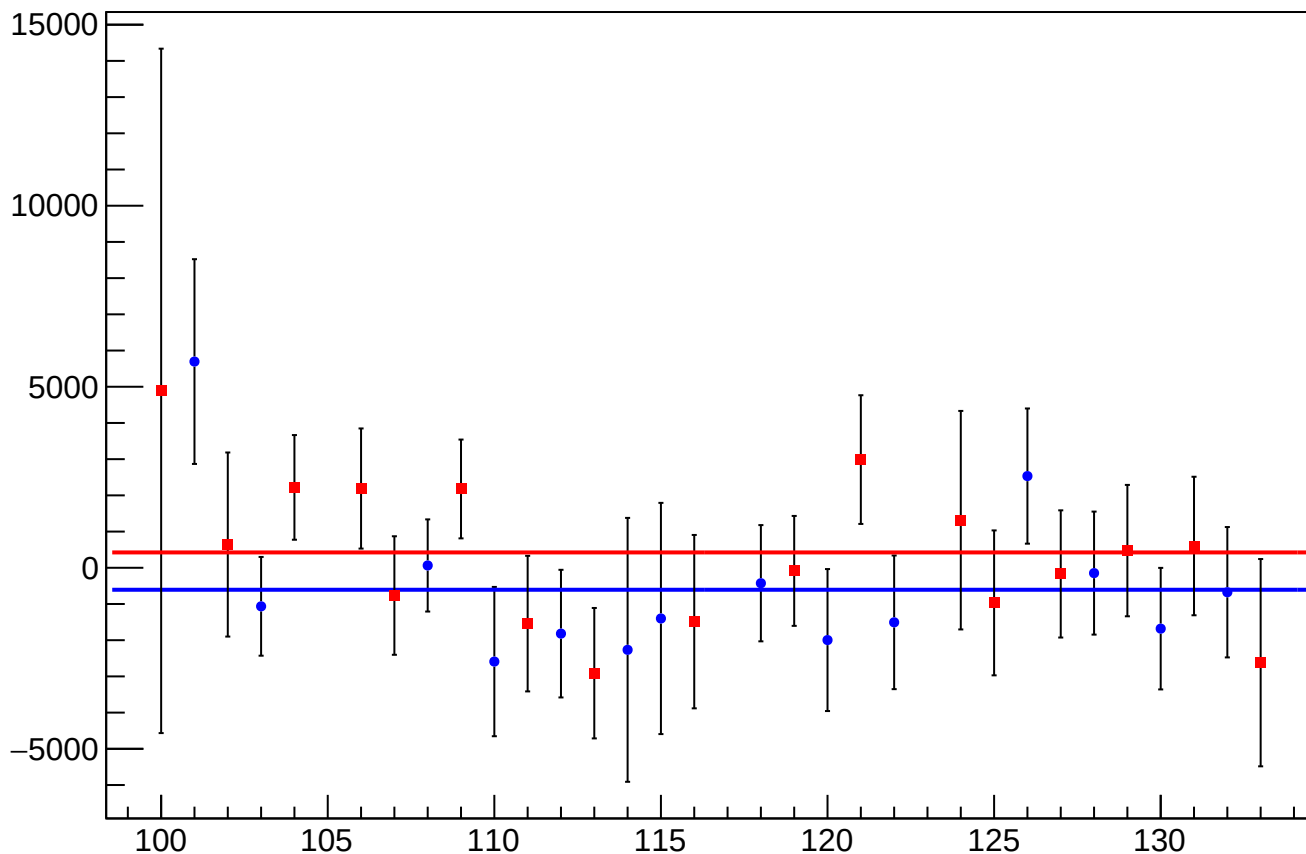
All: 3120.137 $\pm$ 0.642  $\chi^2$ /NDF: 1687323.8/30

- 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\_usr\_atr2\_dd\_mean vs Slug



Right In: -606.963+/-485.117  $\chi^2/\text{NDF}$ : 11.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 424.037+/-455.530  $\chi^2/\text{NDF}$ : 14.3/16

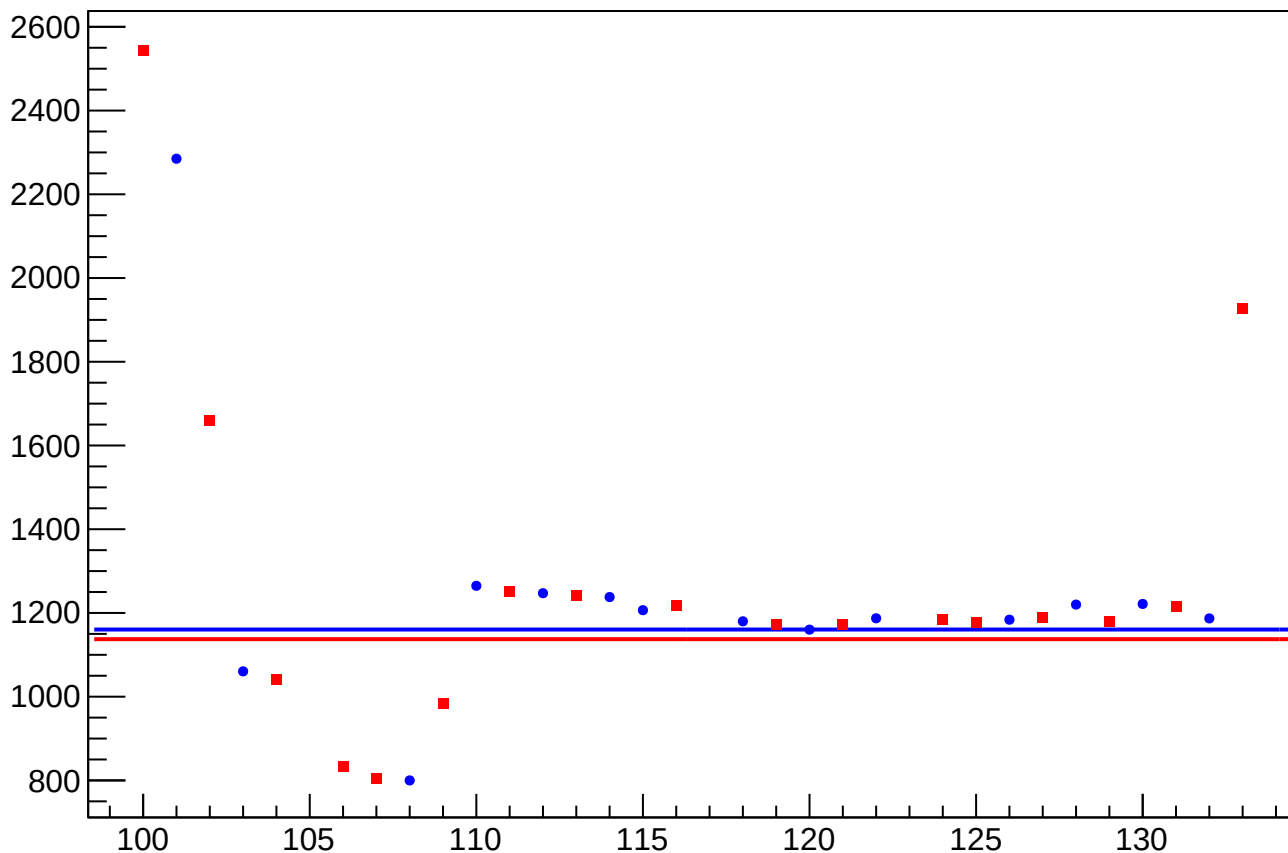
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -59.067+/-332.076  $\chi^2/\text{NDF}$ : 27.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 1160.399+/-0.343  $\chi^2/\text{NDF}$ : 505415.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1137.321+/-0.322  $\chi^2/\text{NDF}$ : 491705.0/16

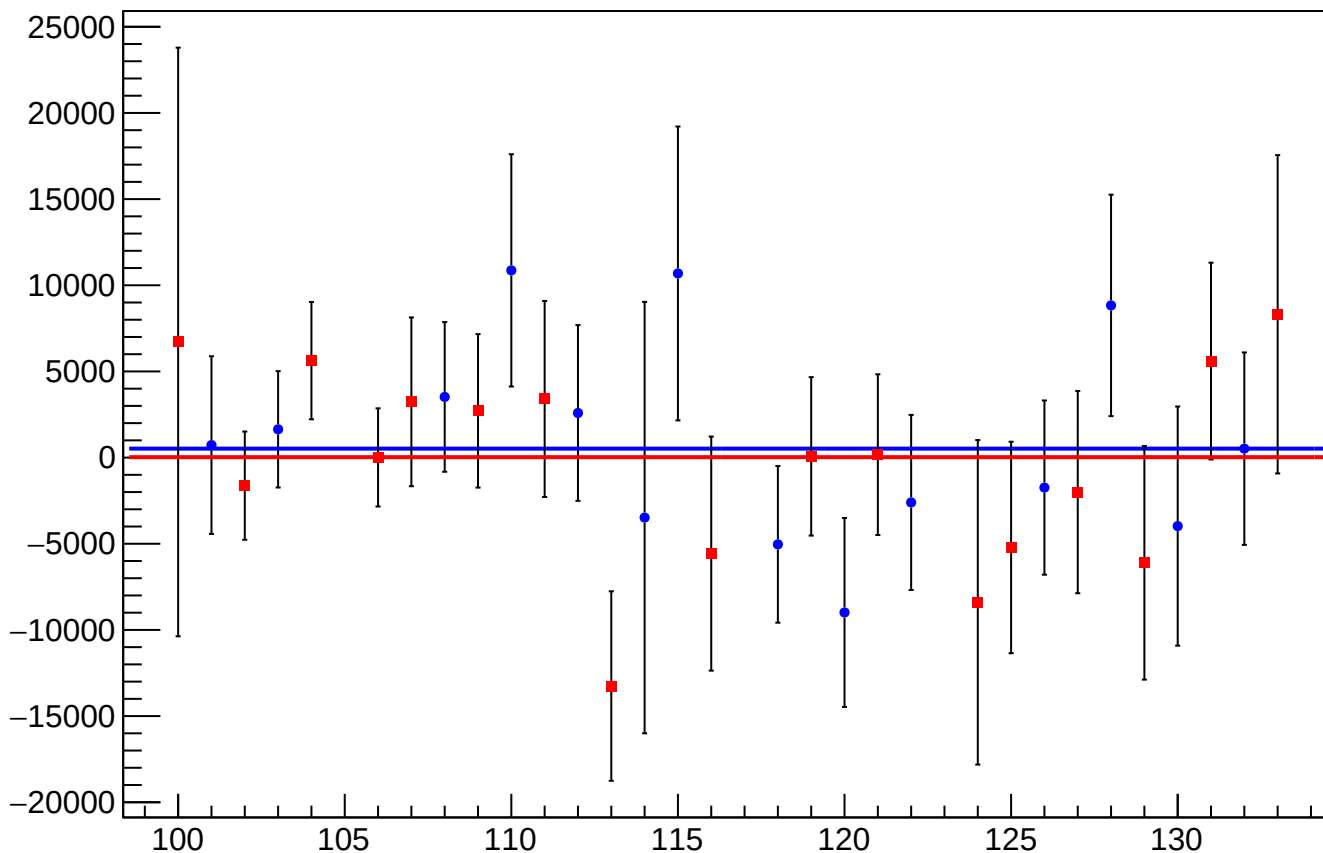
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1148.129+/-0.235  $\chi^2/\text{NDF}$ : 999526.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 520.686+/-1420.491  $\chi^2$ /NDF: 11.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.000+/-1181.544  $\chi^2$ /NDF: 15.0/16

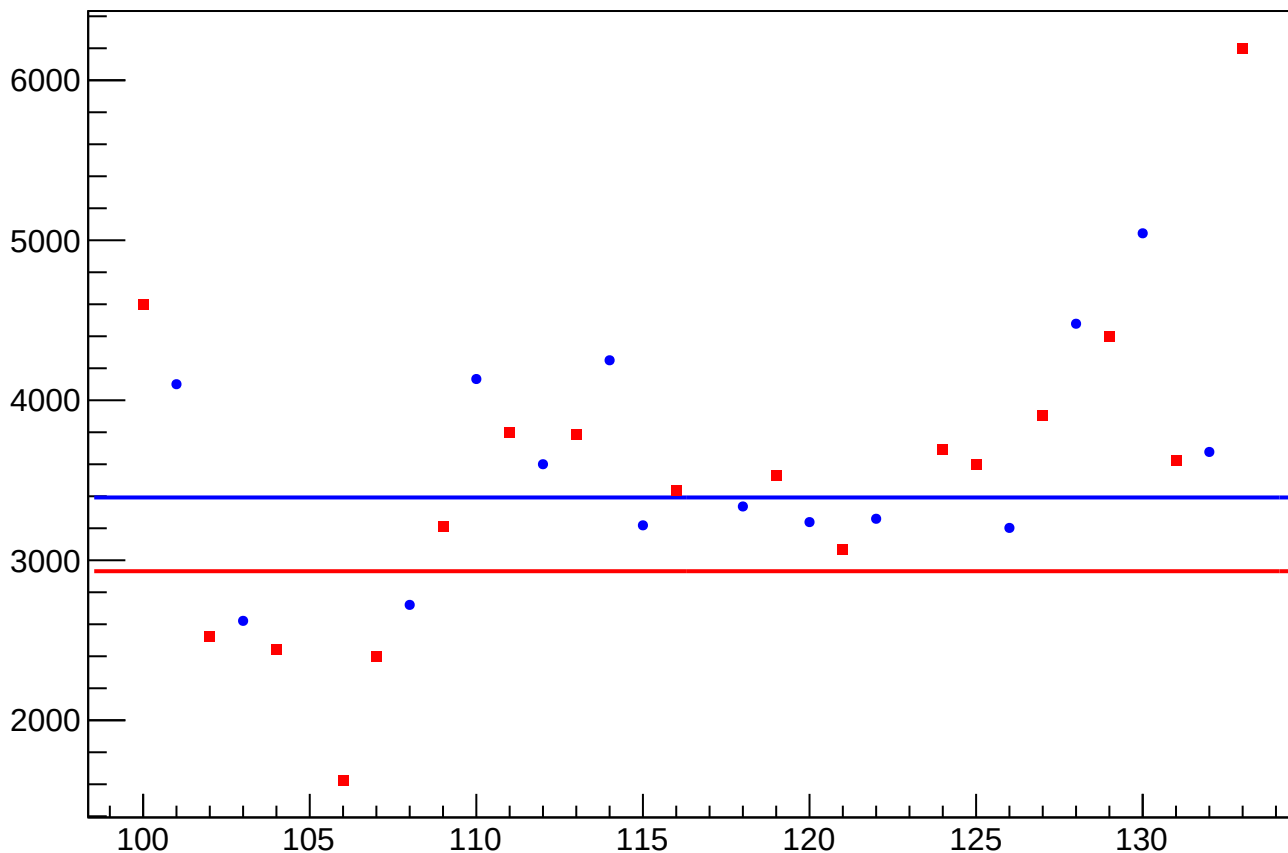
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 228.295+/-908.378  $\chi^2$ /NDF: 26.9/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 3392.561+/-1.004  $\chi^2/\text{NDF}$ : 409145.0/13

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

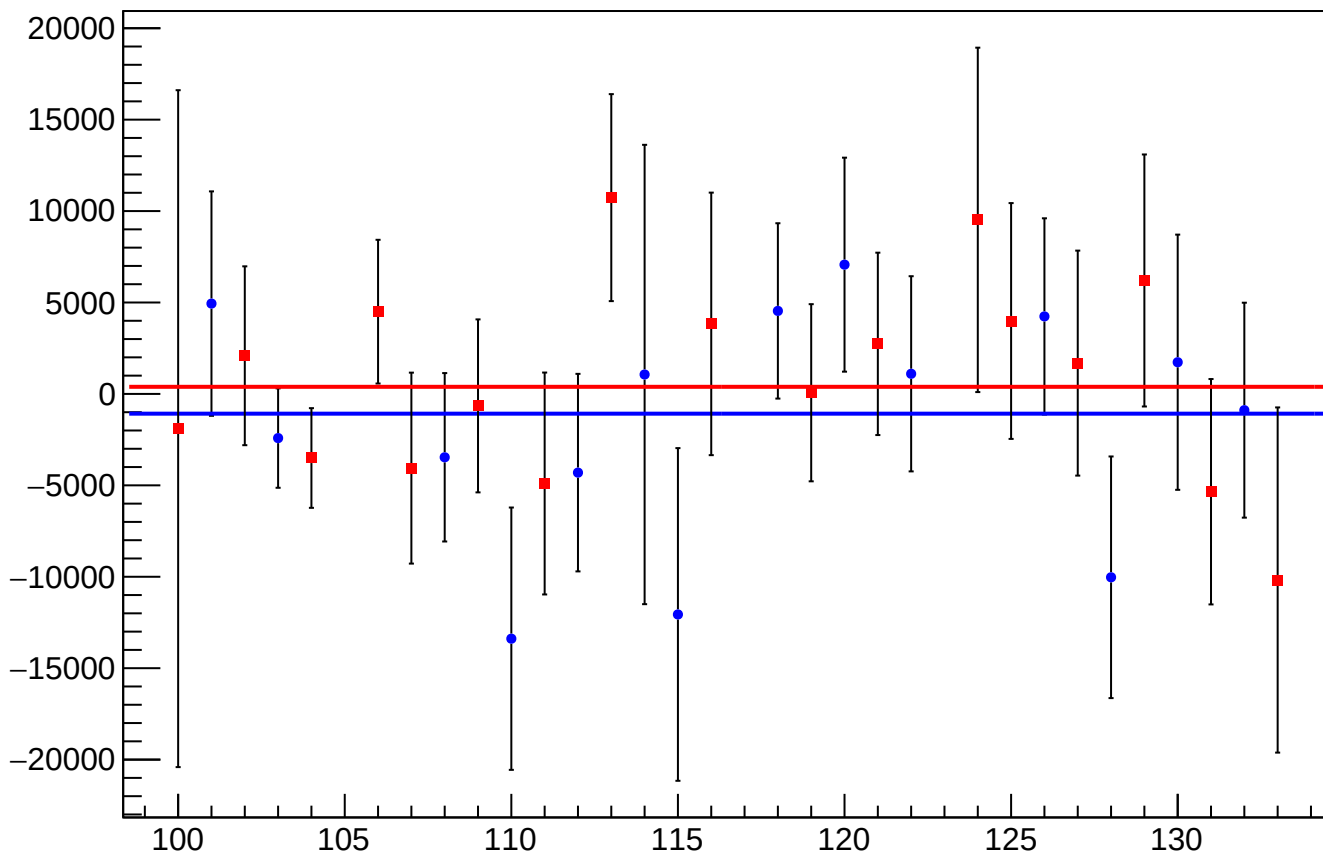
Right Out: 2931.647+/-0.835  $\chi^2/\text{NDF}$ : 1153713.9/16

All: 3120.132+/-0.642  $\chi^2/\text{NDF}$ : 1687318.0/30

- 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\_mean vs Slug



Right In: -1080.114+/-1419.755  $\chi^2/\text{NDF}$ : 12.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 388.925+/-1284.225  $\chi^2/\text{NDF}$ : 12.7/16

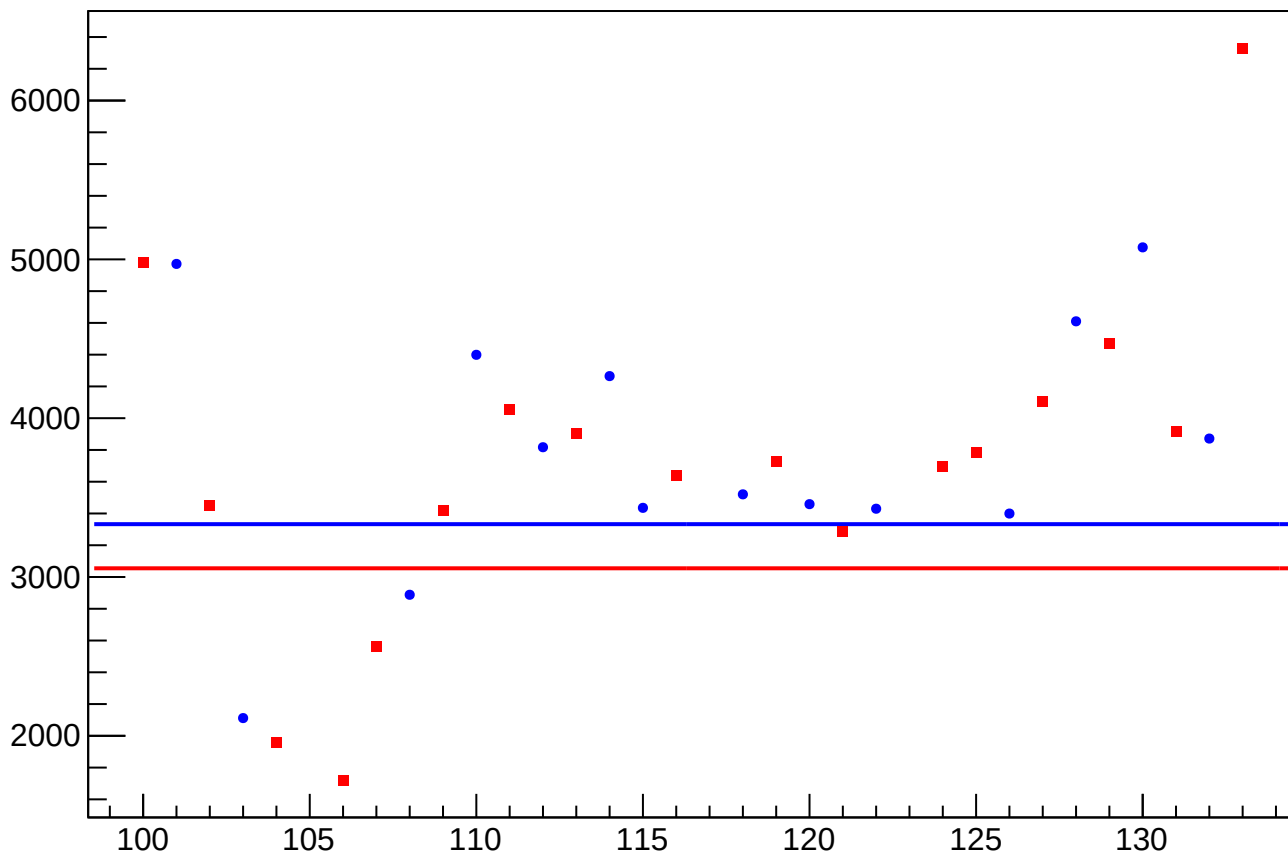
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -272.147+/-952.404  $\chi^2/\text{NDF}$ : 26.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_atr2\_dd\_rms vs Slug



Right In: 3332.709+/-1.004  $\chi^2/\text{NDF}$ : 857646.9/13

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

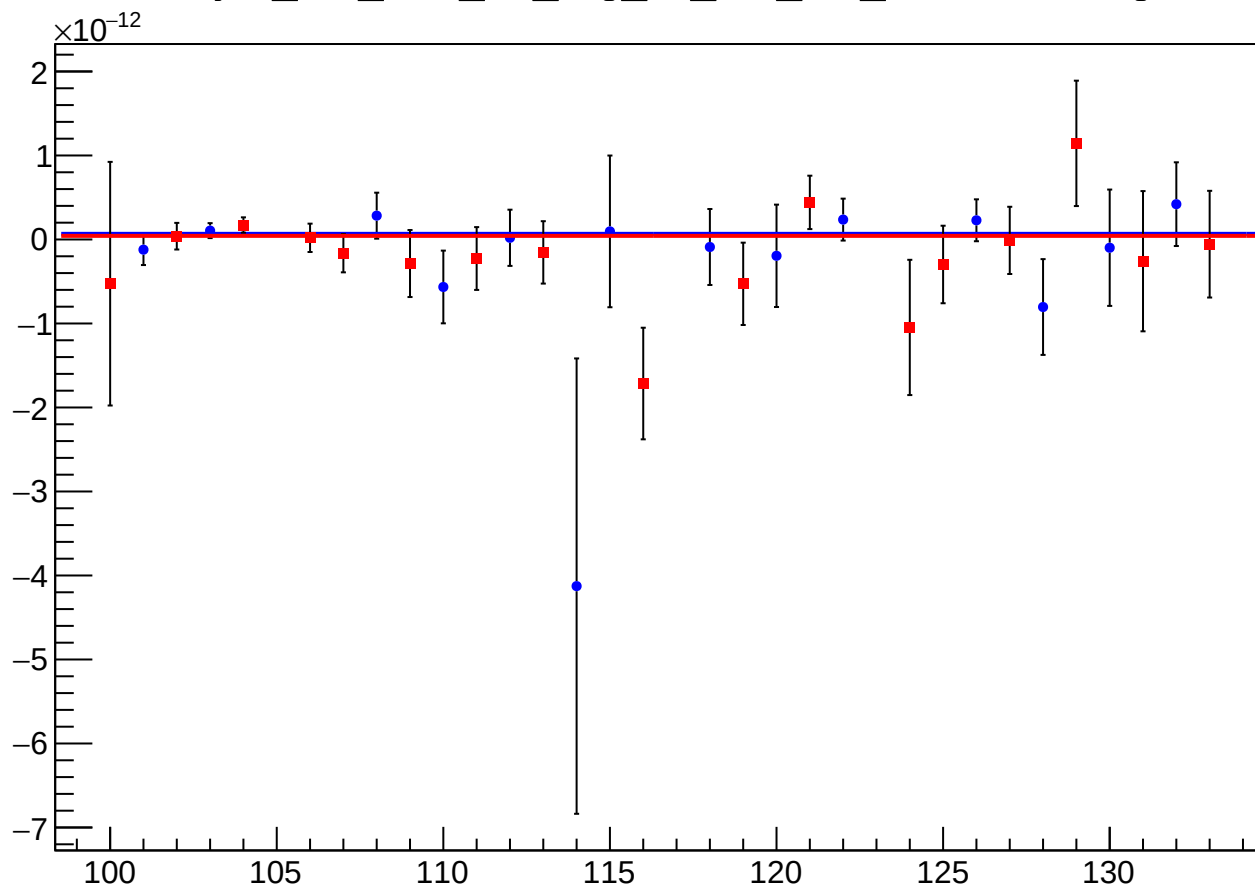
Right Out: 3054.786+/-0.891  $\chi^2/\text{NDF}$ : 1313152.7/16

All: 3177.305+/-0.667  $\chi^2/\text{NDF}$ : 2213653.4/30

- 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\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.1/16

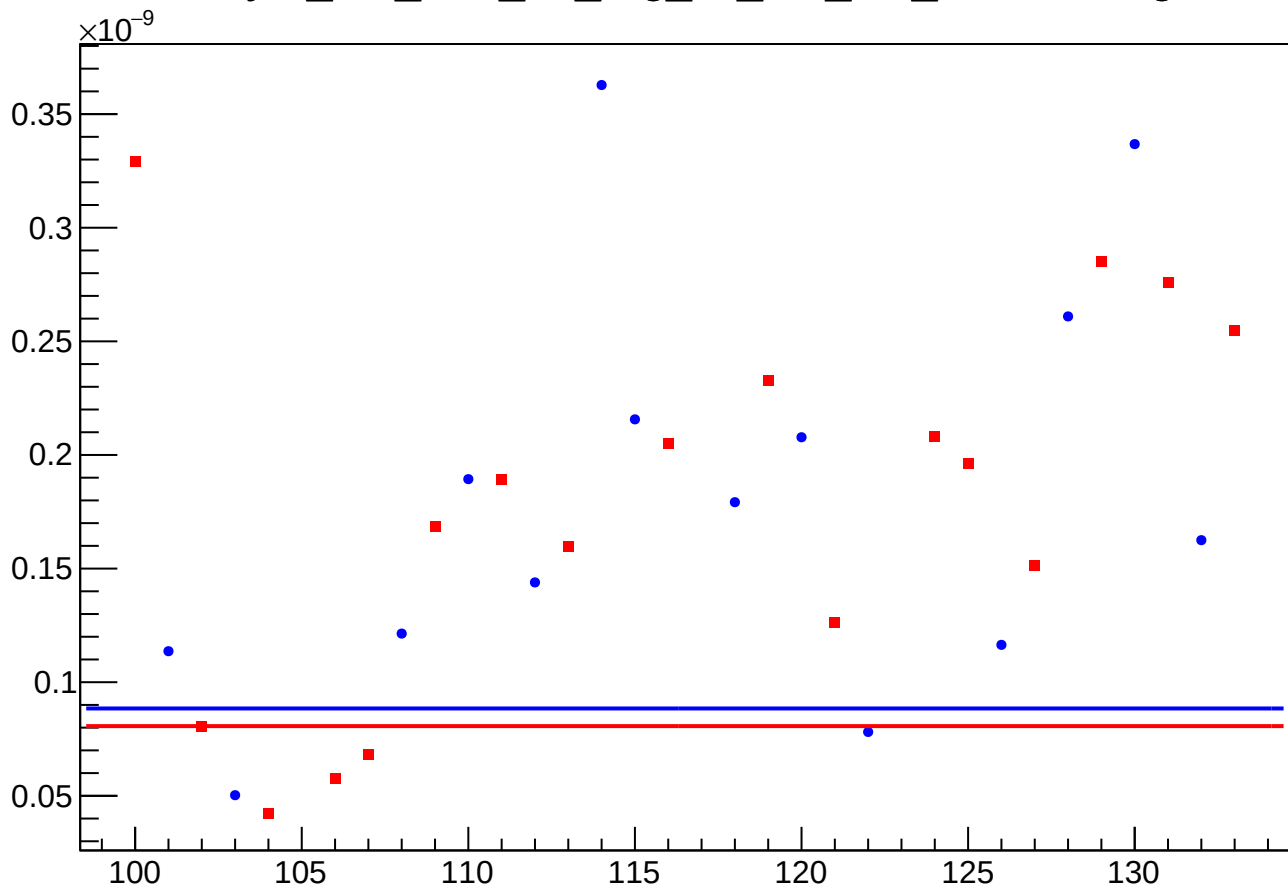
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 29.7/30

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 1329022.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1764462.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

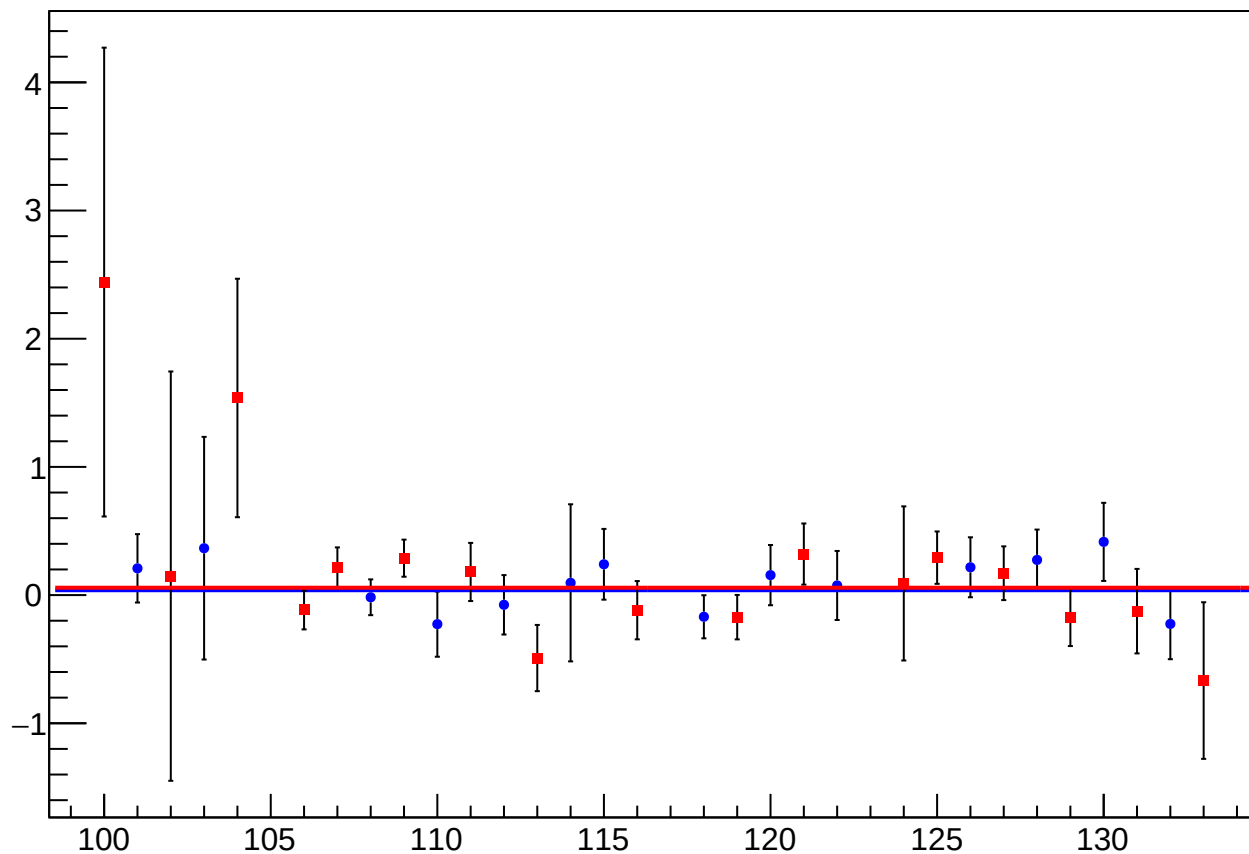
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3108571.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_usr\_atr2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.038 $\pm$ 0.064  $\chi^2$ /NDF: 8.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.058 $\pm$ 0.056  $\chi^2$ /NDF: 21.8/16

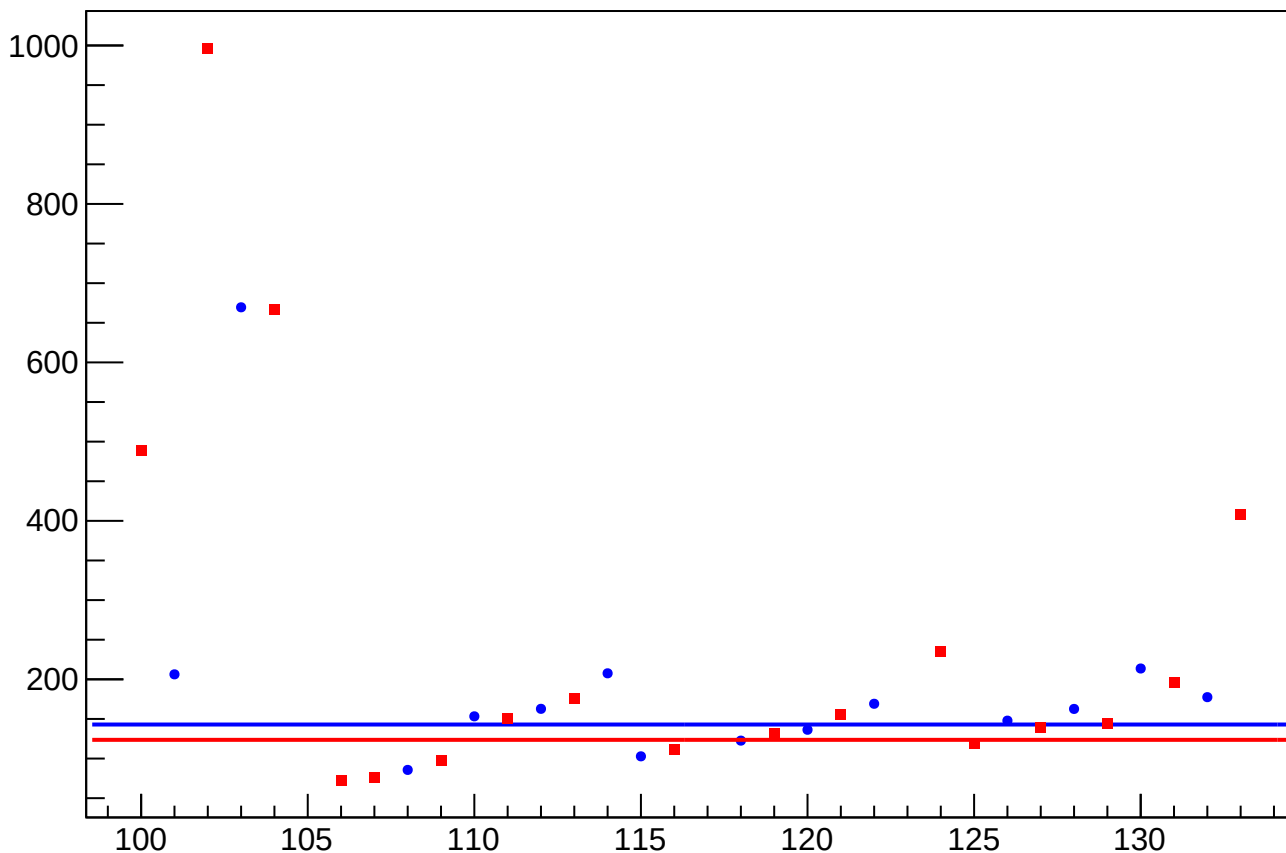
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.049 $\pm$ 0.042  $\chi^2$ /NDF: 30.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_usr\_atr2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 142.958+/-0.045  $\chi^2/\text{NDF}$ : 1471102.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 123.619+/-0.040  $\chi^2/\text{NDF}$ : 2627350.2/16

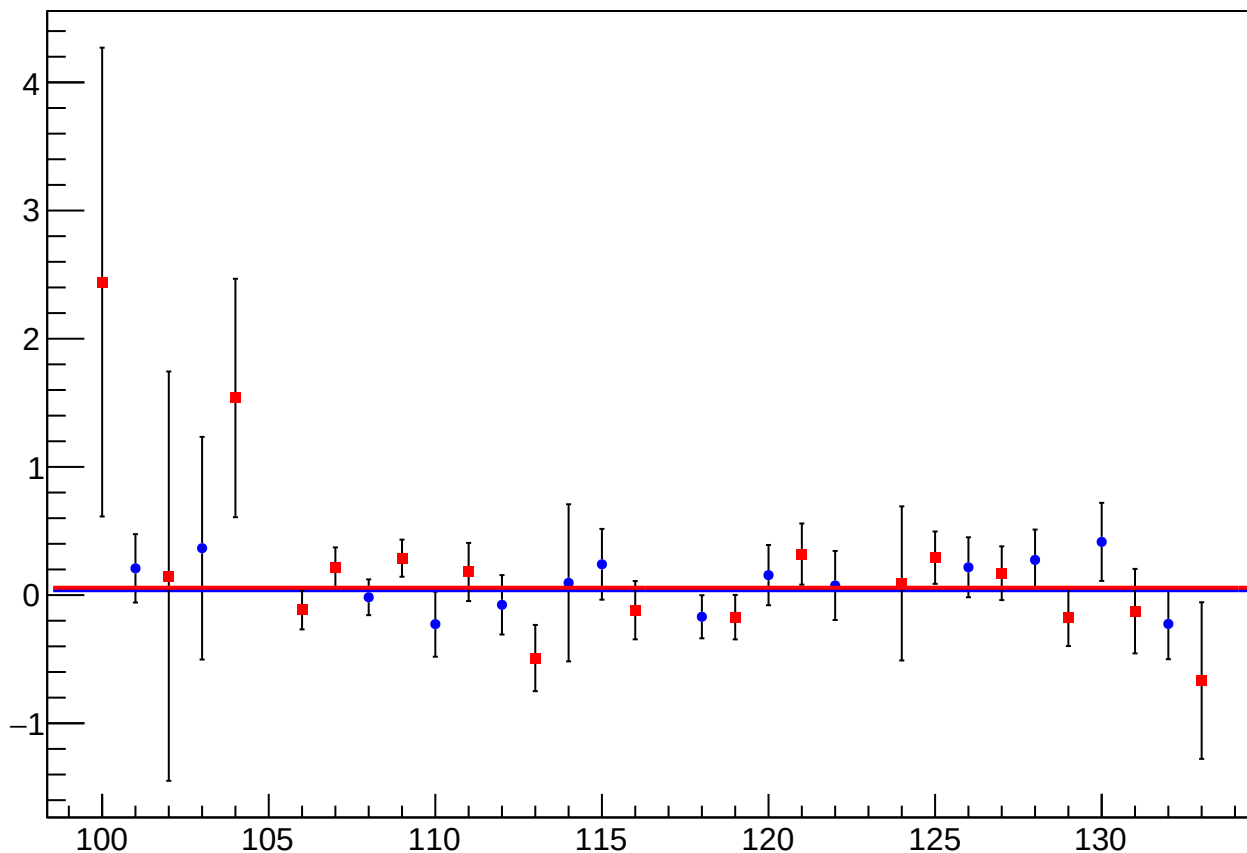
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 132.012+/-0.030  $\chi^2/\text{NDF}$ : 4201750.7/30

- 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: 0.038 $\pm$ 0.064  $\chi^2$ /NDF: 8.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.058 $\pm$ 0.056  $\chi^2$ /NDF: 21.8/16

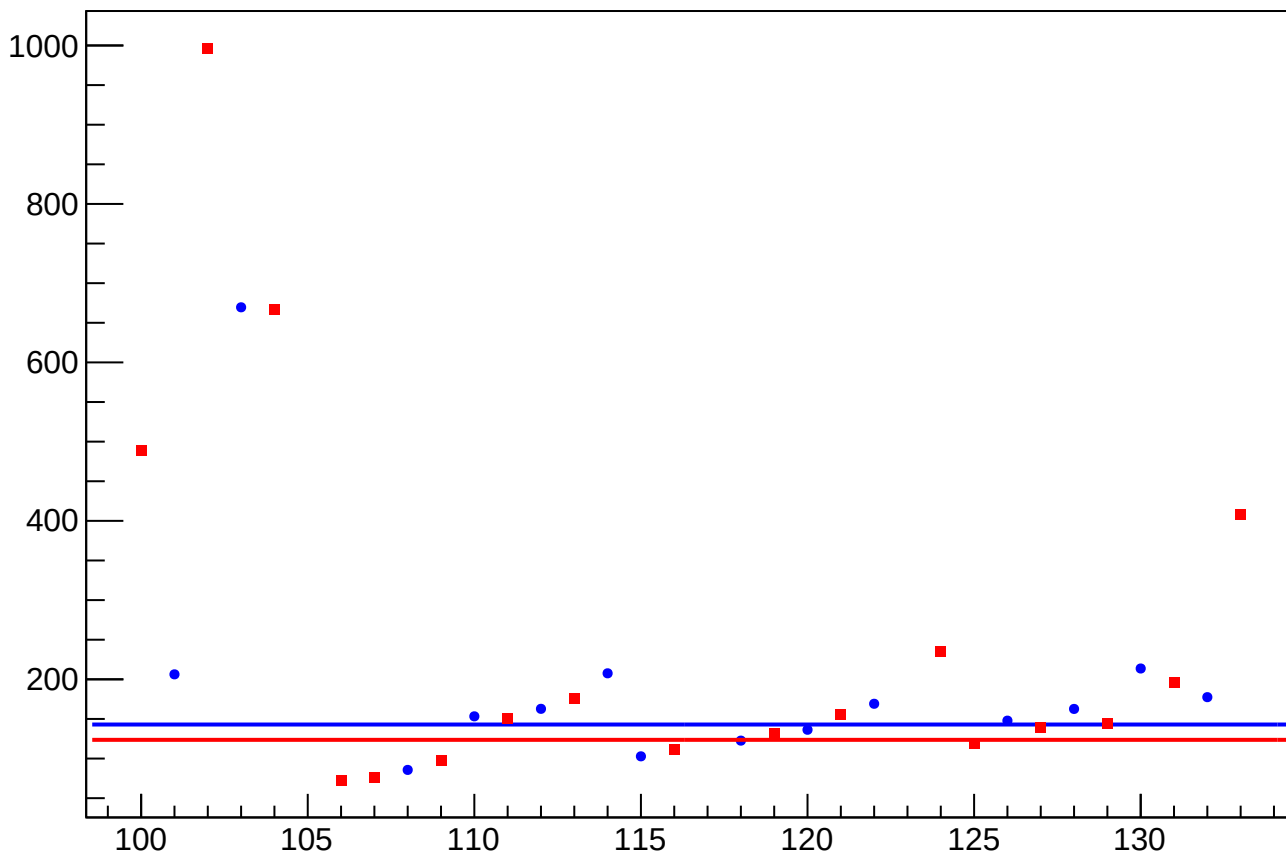
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.049 $\pm$ 0.042  $\chi^2$ /NDF: 30.2/30

- 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: 142.958+/-0.045  $\chi^2/\text{NDF}$ : 1471102.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 123.619+/-0.040  $\chi^2/\text{NDF}$ : 2627350.2/16

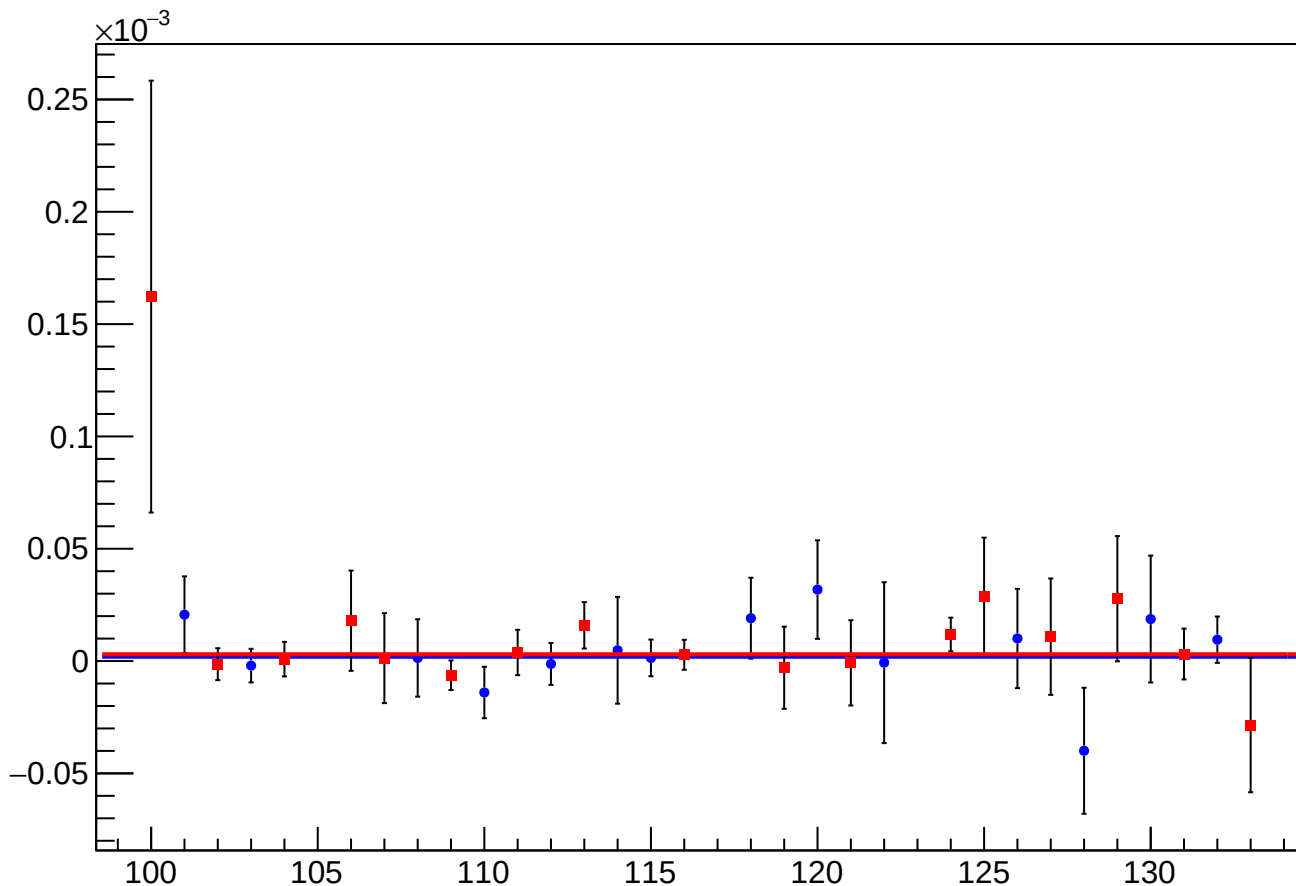
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 132.012+/-0.030  $\chi^2/\text{NDF}$ : 4201750.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.7/16

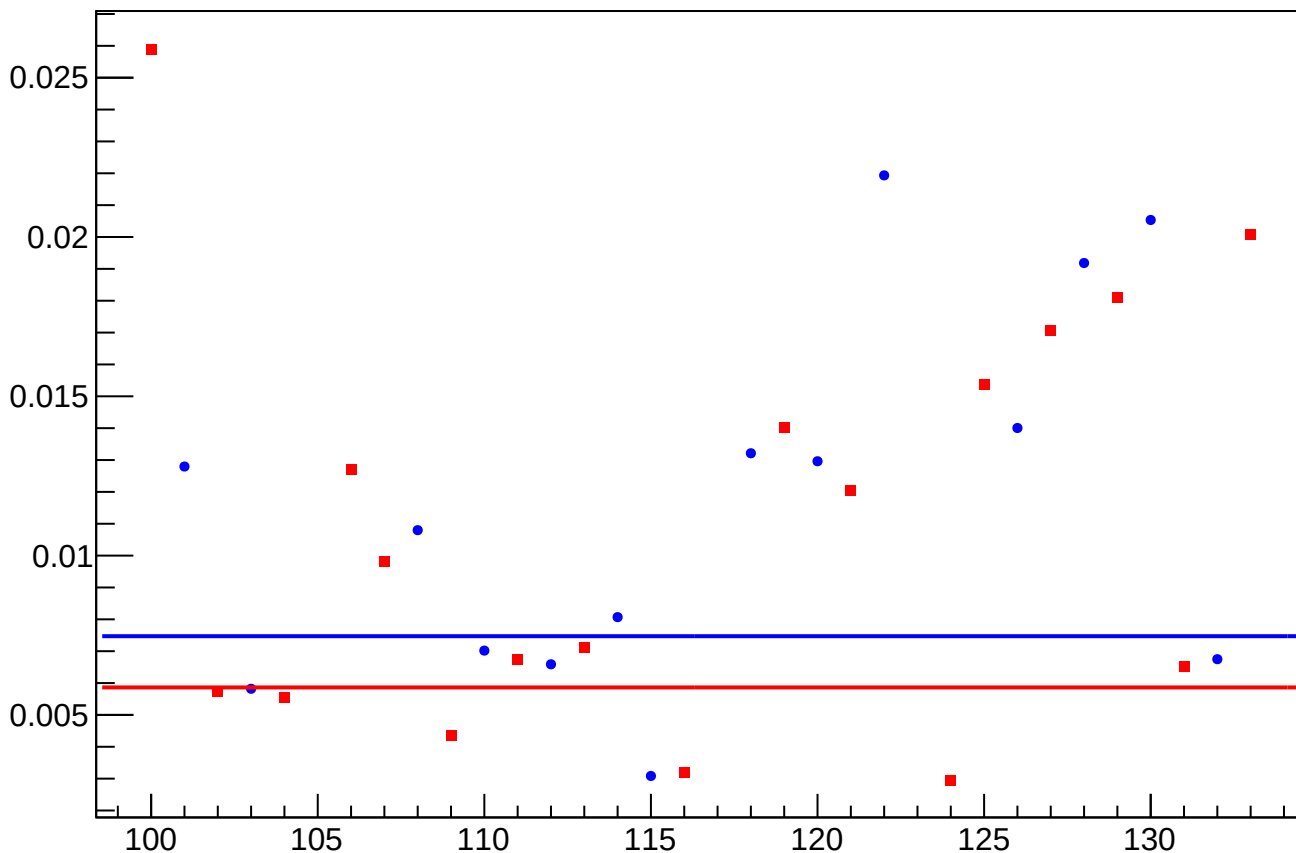
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 21.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 2582454.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 3219681.0/16

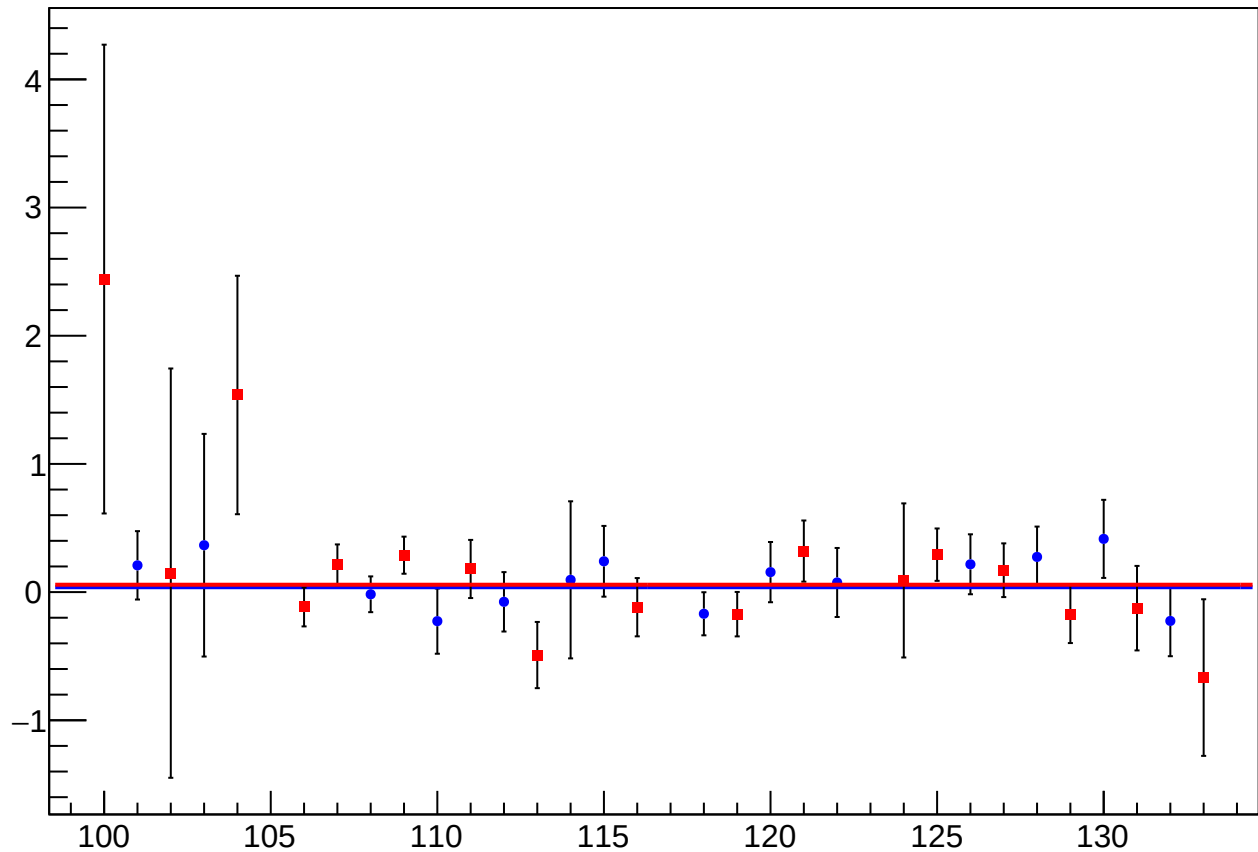
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 6068188.2/30

- 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: 0.038 $\pm$ 0.064  $\chi^2$ /NDF: 8.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.058 $\pm$ 0.056  $\chi^2$ /NDF: 21.8/16

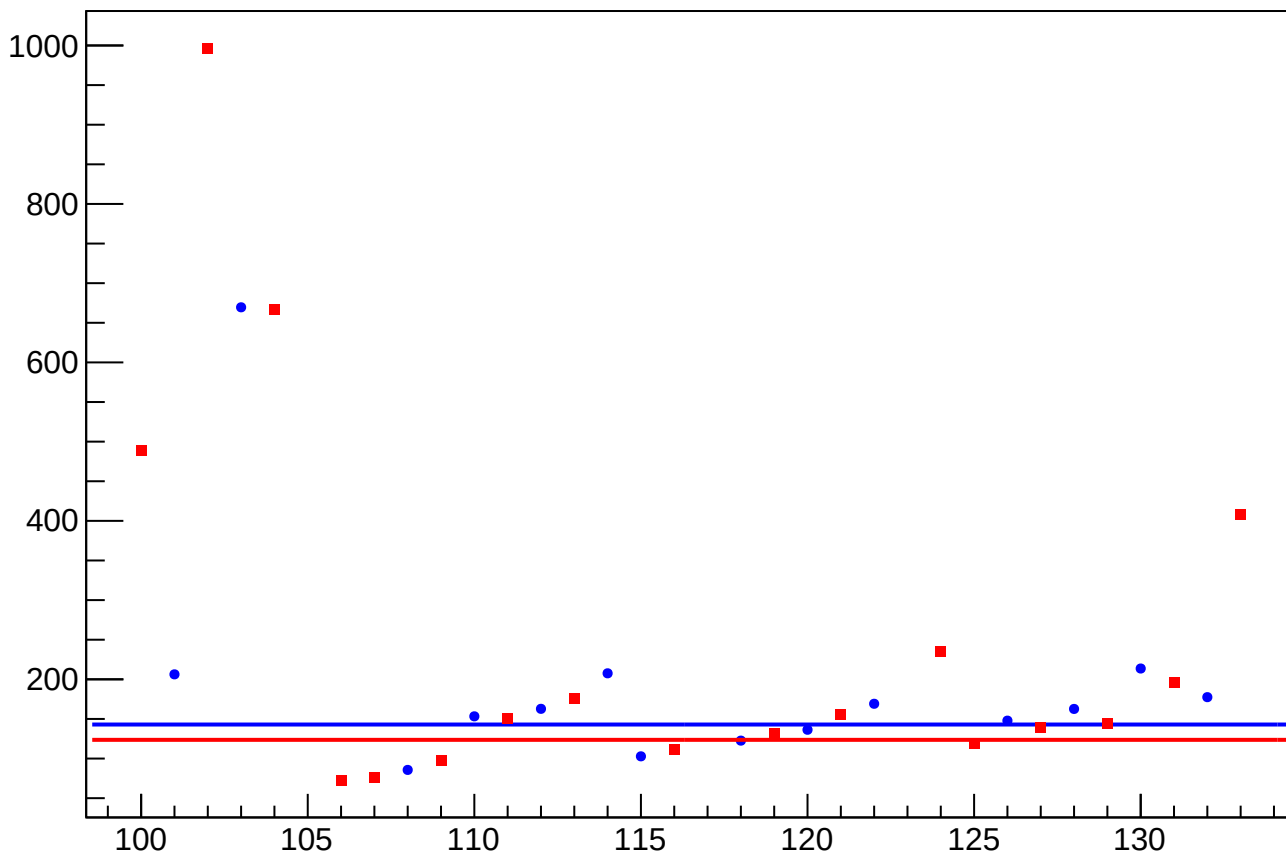
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.049 $\pm$ 0.042  $\chi^2$ /NDF: 30.2/30

- 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: 142.955+/-0.045  $\chi^2/\text{NDF}$ : 1471152.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 123.619+/-0.040  $\chi^2/\text{NDF}$ : 2627325.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

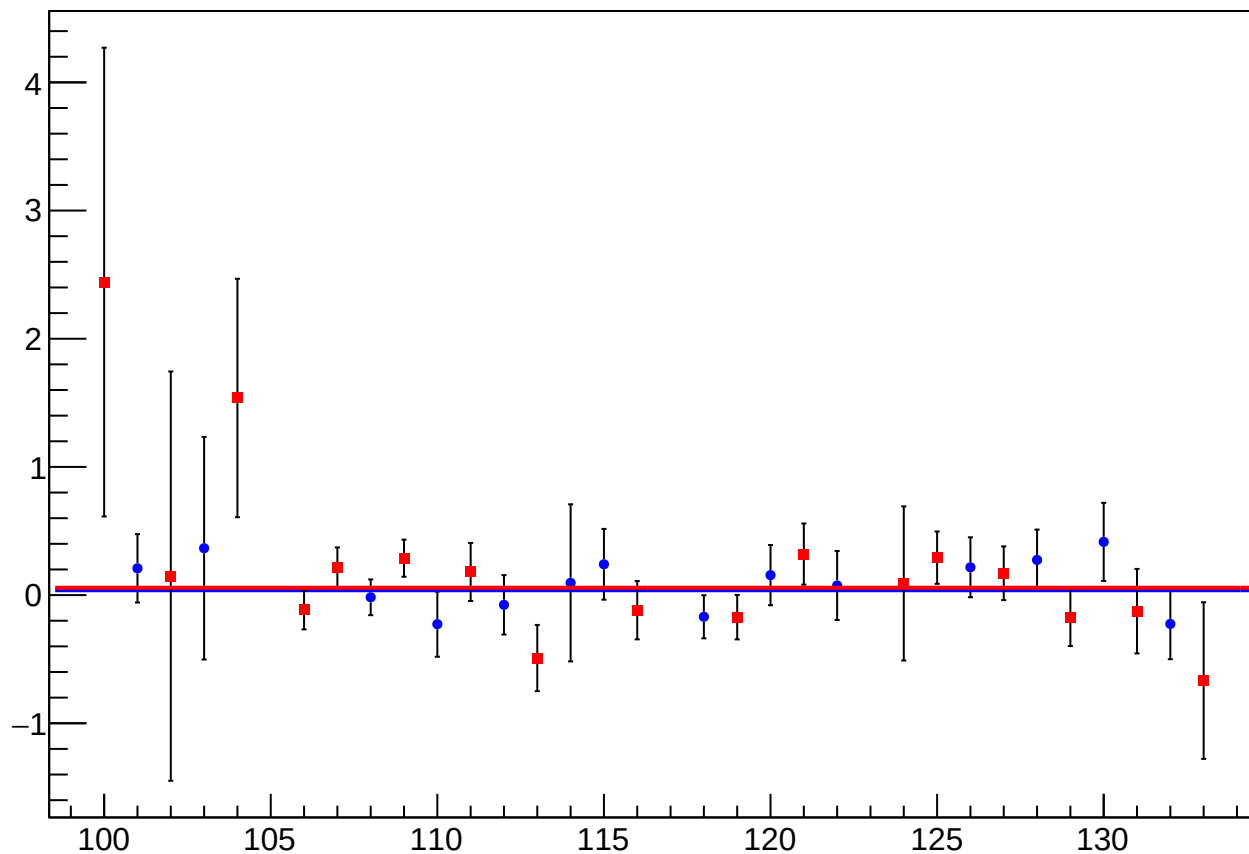
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 132.011+/-0.030  $\chi^2/\text{NDF}$ : 4201745.9/30

- 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: 0.038 $\pm$ 0.064  $\chi^2$ /NDF: 8.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.058 $\pm$ 0.056  $\chi^2$ /NDF: 21.8/16

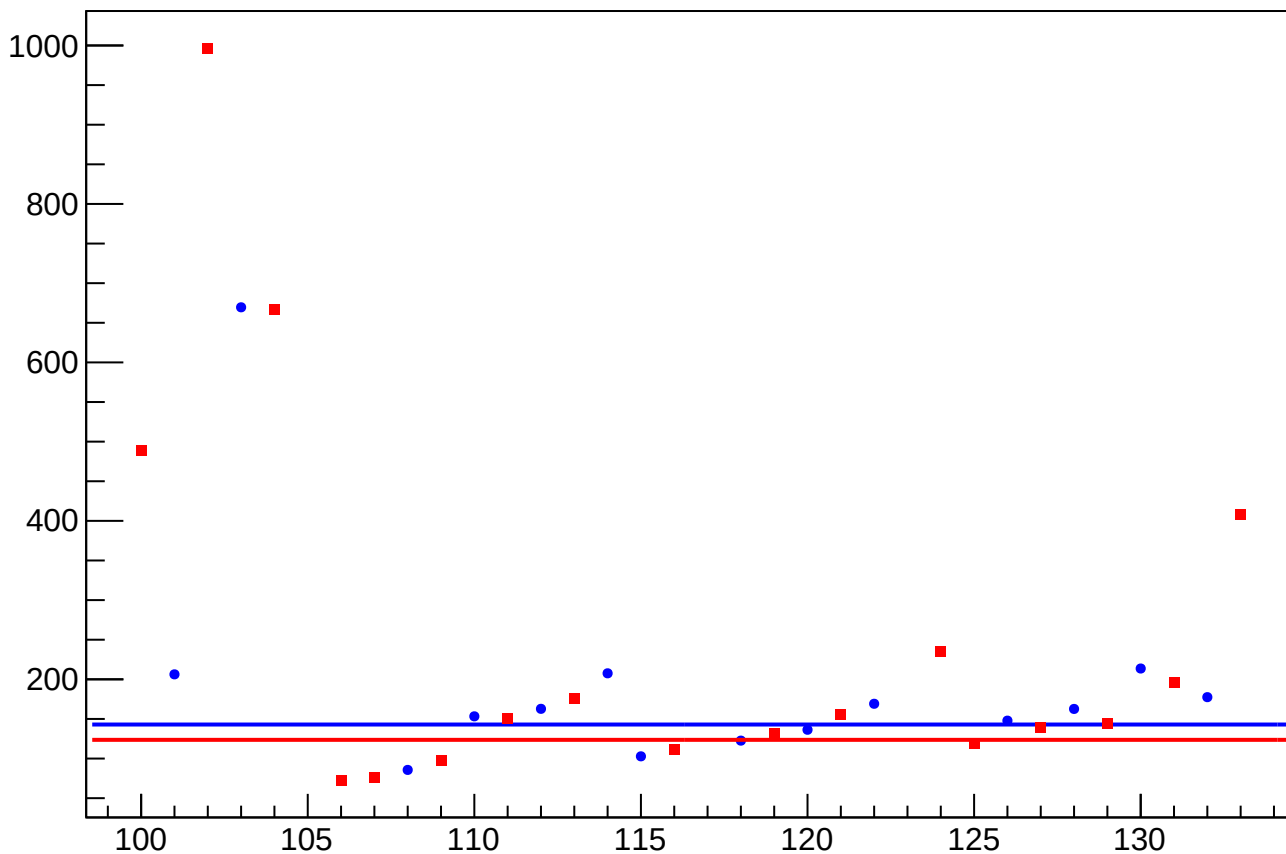
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.049 $\pm$ 0.042  $\chi^2$ /NDF: 30.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 142.955+/-0.045  $\chi^2/\text{NDF}$ : 1471152.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 123.619+/-0.040  $\chi^2/\text{NDF}$ : 2627325.6/16

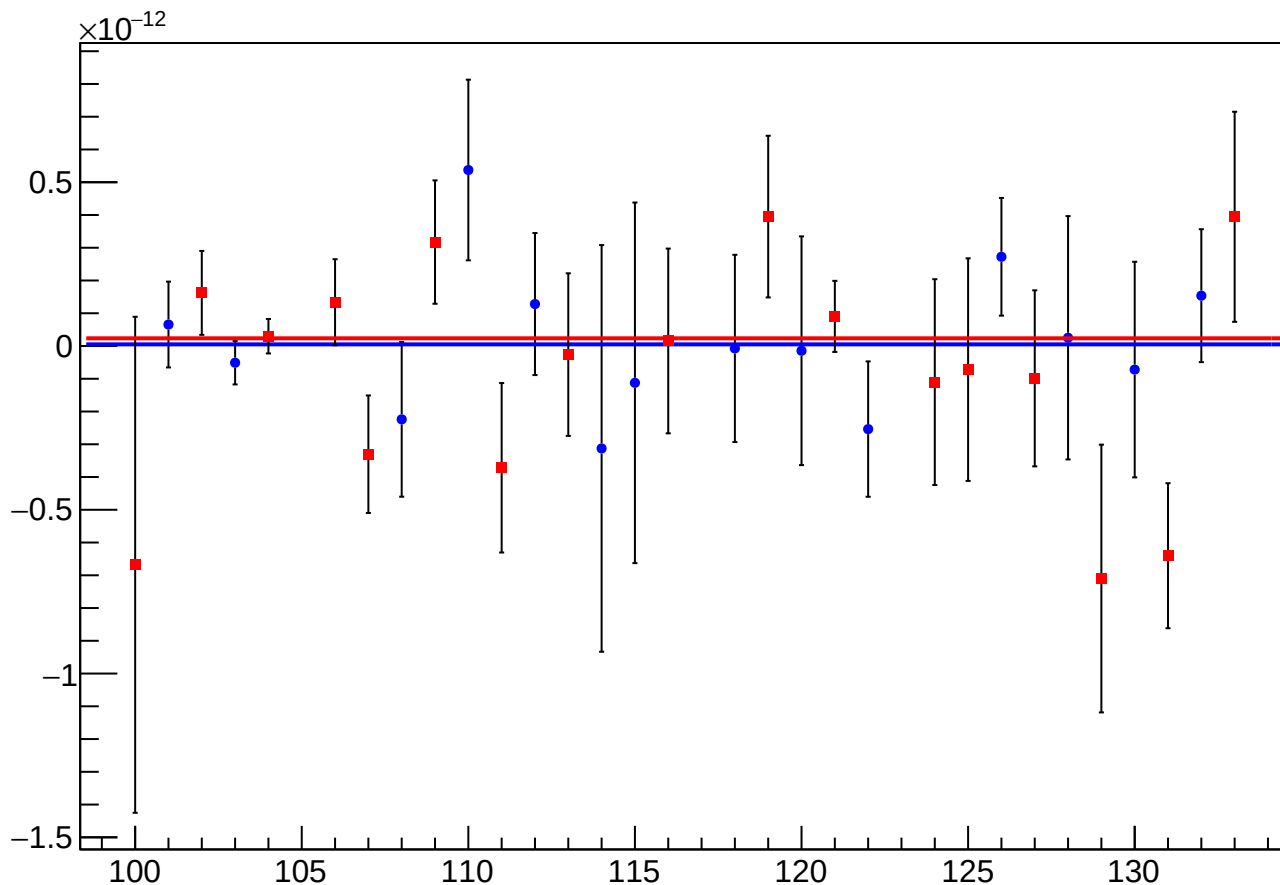
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 132.011+/-0.030  $\chi^2/\text{NDF}$ : 4201745.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_usr\_atr2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 28.1/16

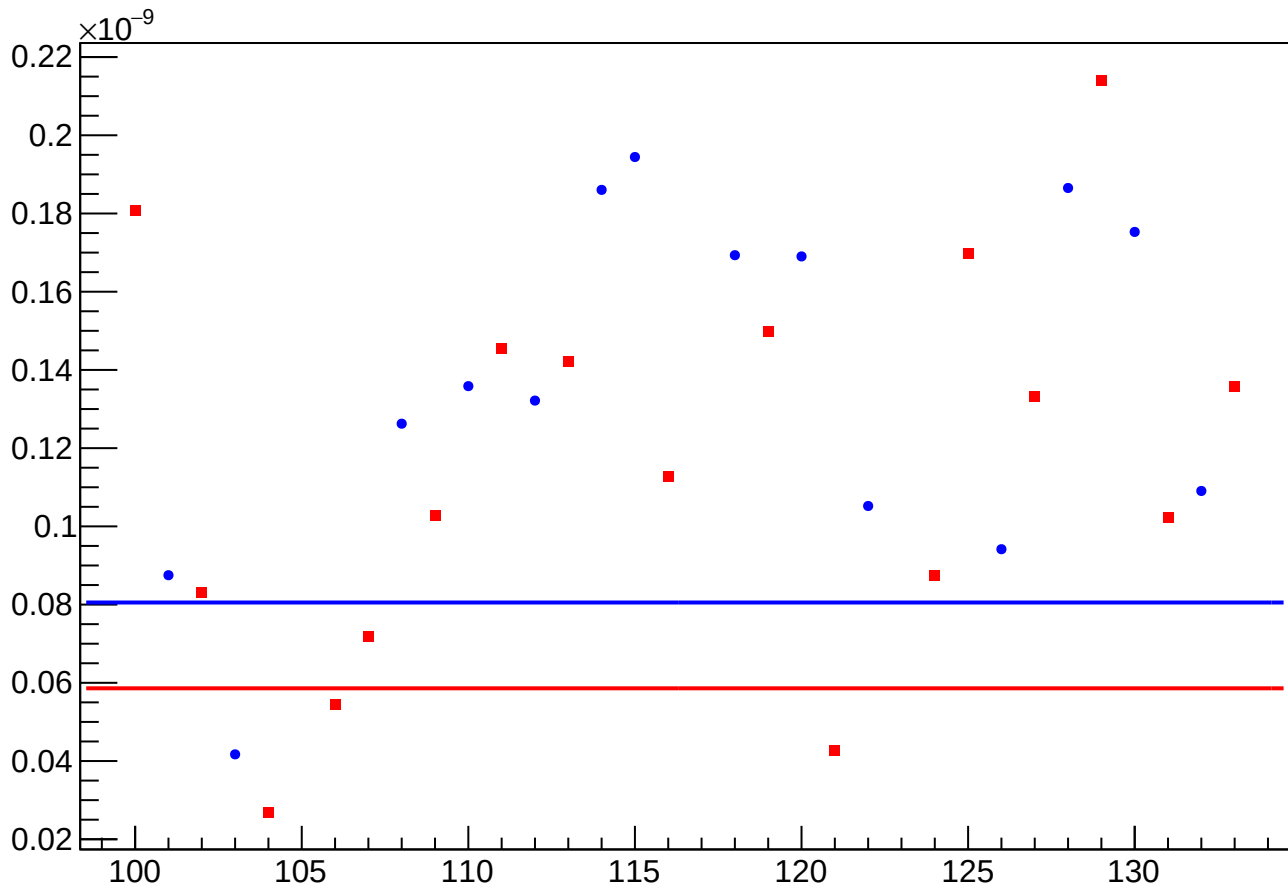
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 38.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1834783.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2685477.9/16

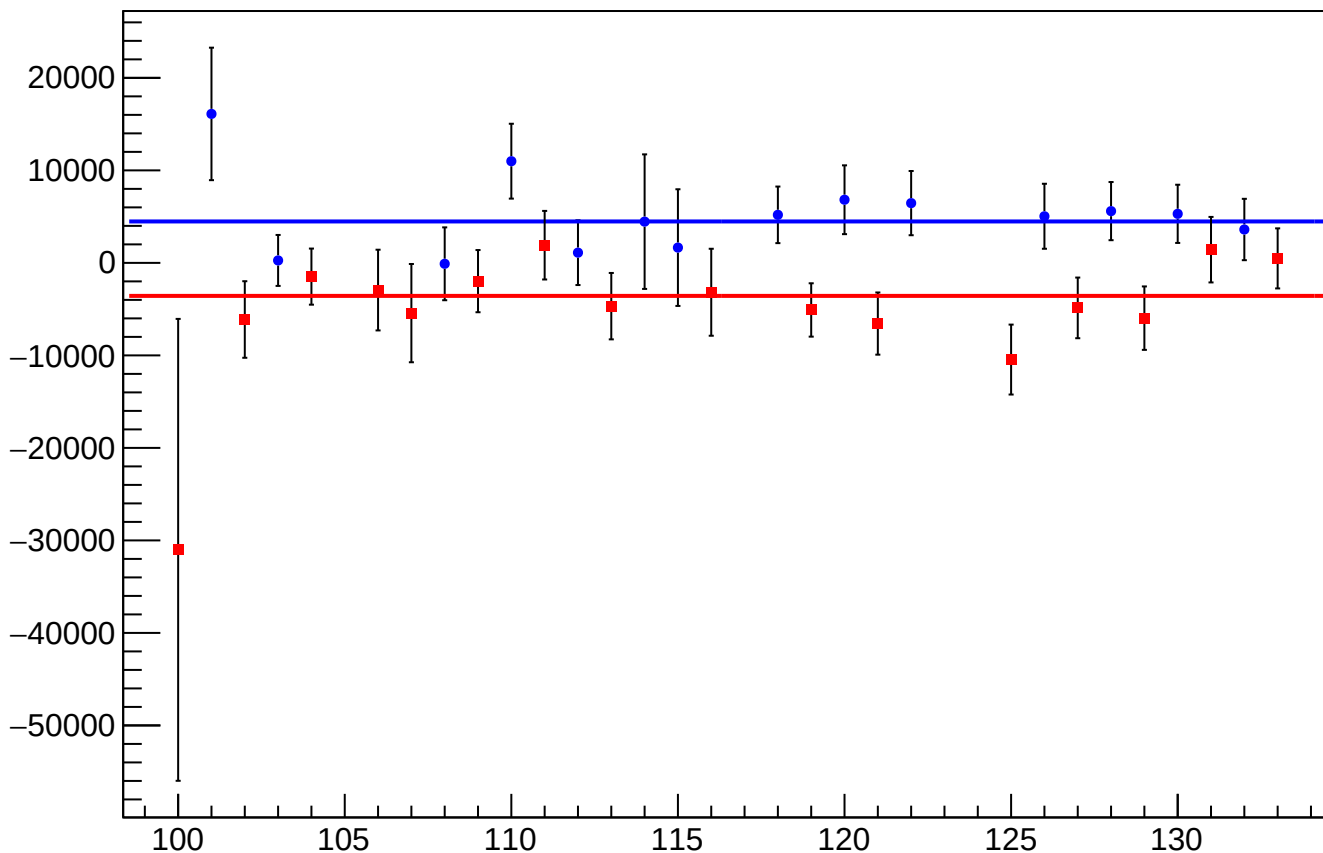
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4795412.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug



Right In: 4478.799+/-981.037  $\chi^2/\text{NDF}$ : 11.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3567.842+/-923.576  $\chi^2/\text{NDF}$ : 13.3/15

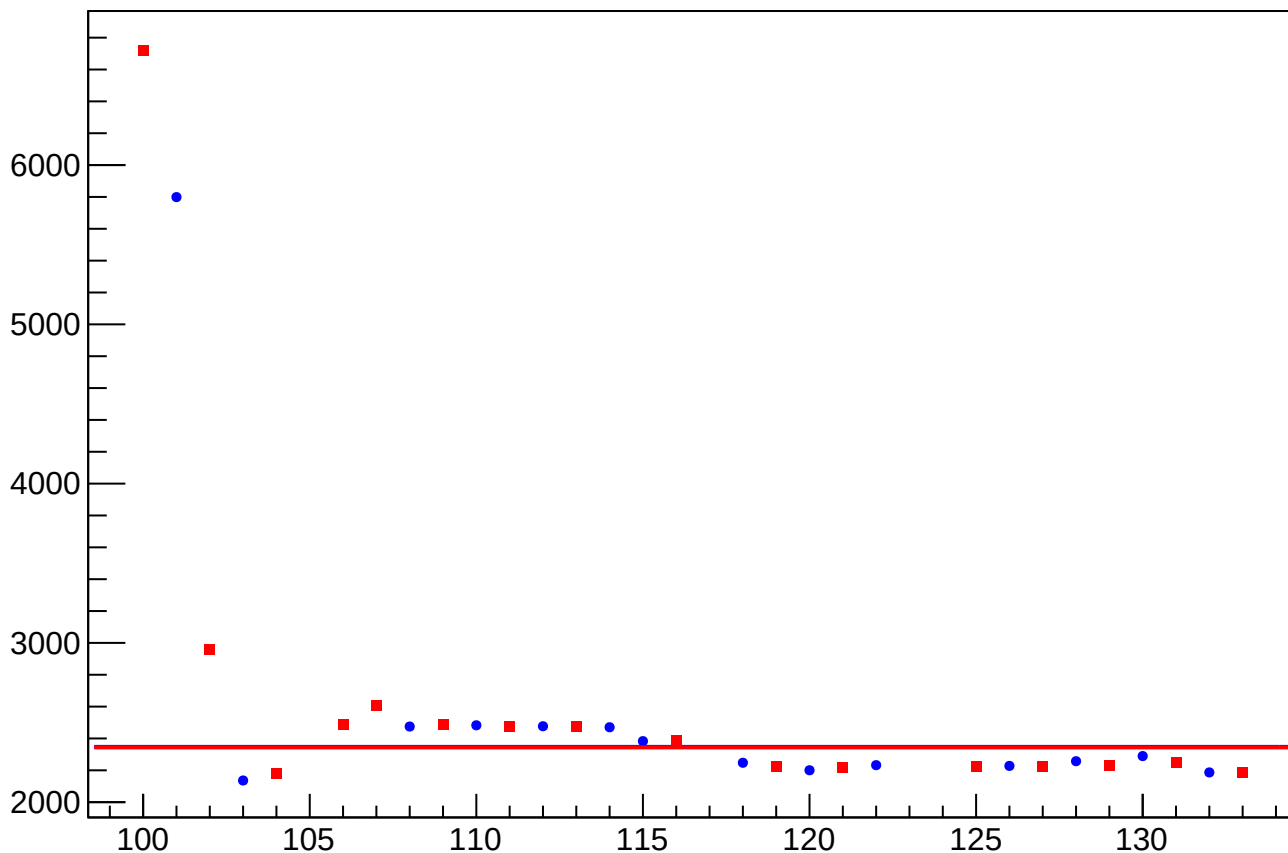
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 212.936+/-672.463  $\chi^2/\text{NDF}$ : 60.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2347.019+/-0.694  $\chi^2/\text{NDF}$ : 500879.3/13

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

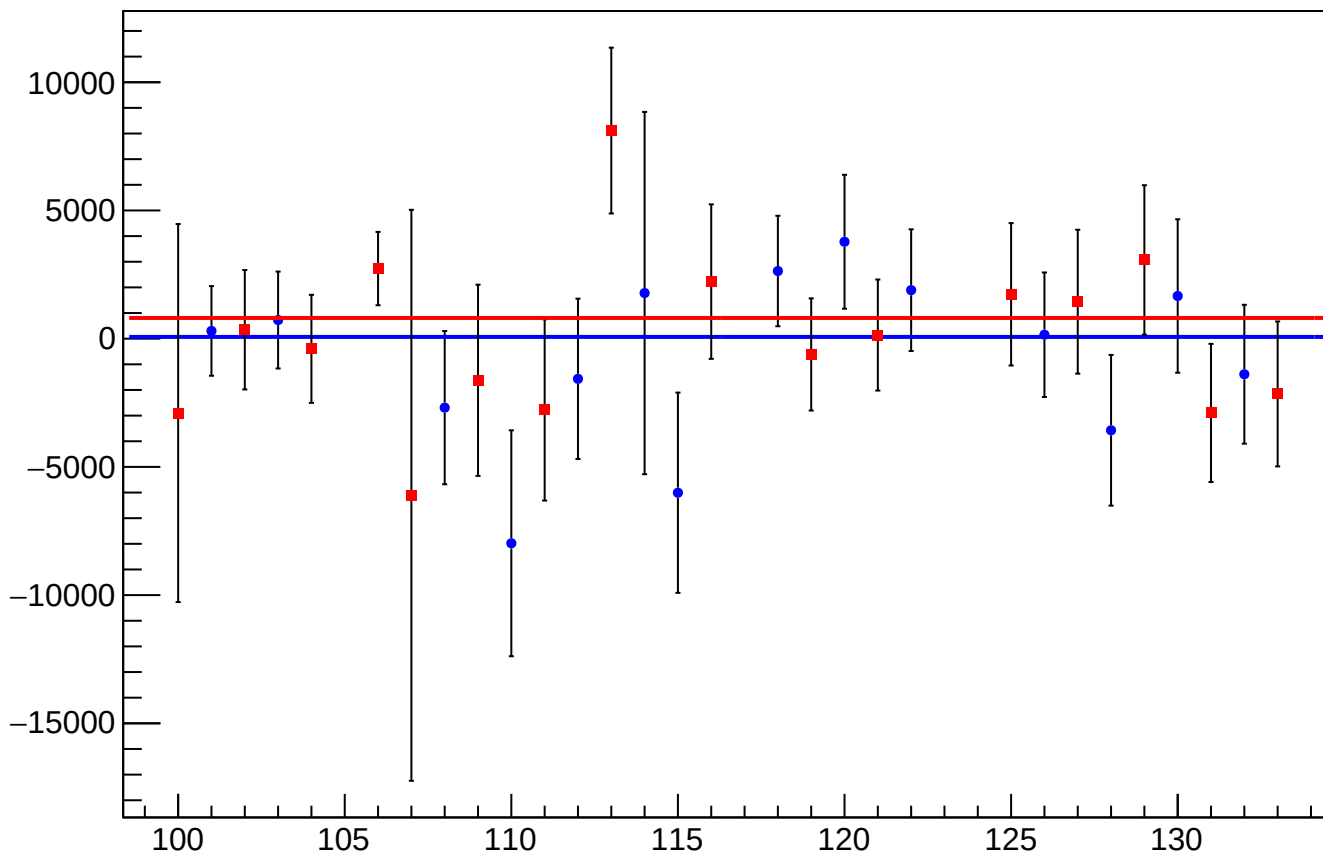
Right Out: 2343.890+/-0.653  $\chi^2/\text{NDF}$ : 147106.4/15

All: 2345.360+/-0.476  $\chi^2/\text{NDF}$ : 647996.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_reg\_correction\_mean vs Slug



Right In: 68.912+/-701.496  $\chi^2/\text{NDF}$ : 13.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 808.647+/-653.255  $\chi^2/\text{NDF}$ : 13.9/15

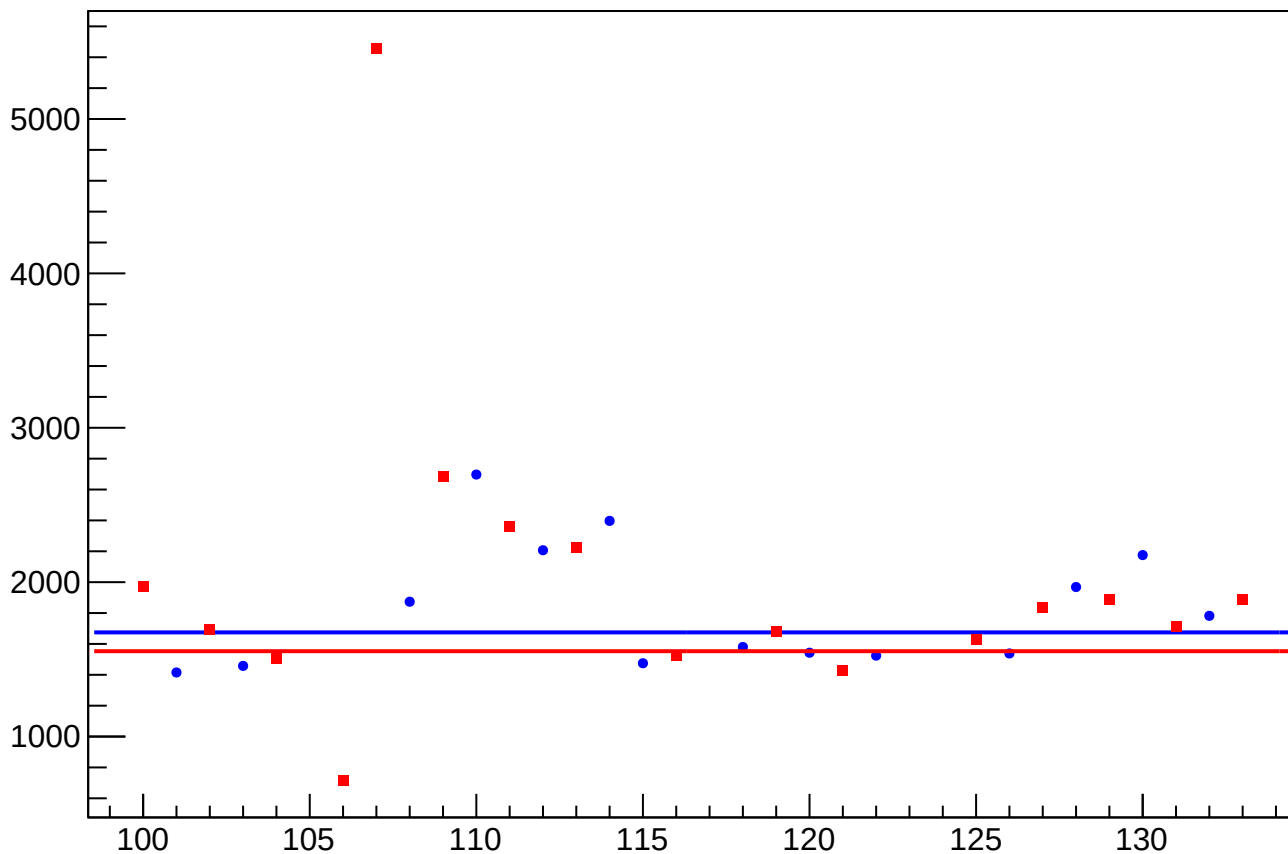
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 465.087+/-478.066  $\chi^2/\text{NDF}$ : 27.7/29

- 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: 1674.718+/-0.496  $\chi^2/\text{NDF}$ : 373677.3/13

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: 1552.927+/-0.462  $\chi^2/\text{NDF}$ : 1421266.3/15

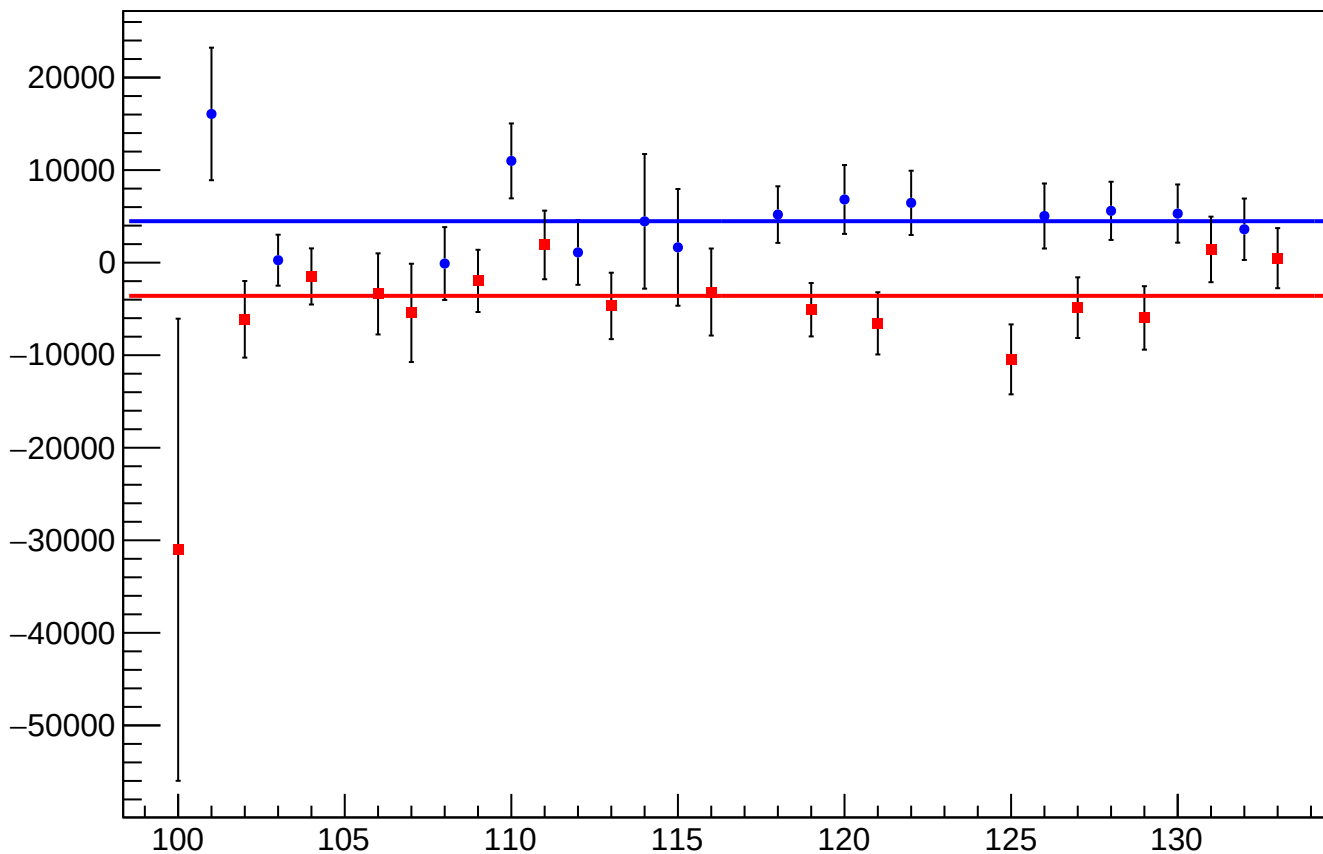
All: 1609.491+/-0.338  $\chi^2/\text{NDF}$ : 1827230.2/29

- 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\_at1lr\_avg\_avg\_mean vs Slug



Right In: 4478.024+/-981.037  $\chi^2/\text{NDF}$ : 11.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3588.124+/-923.755  $\chi^2/\text{NDF}$ : 13.3/15

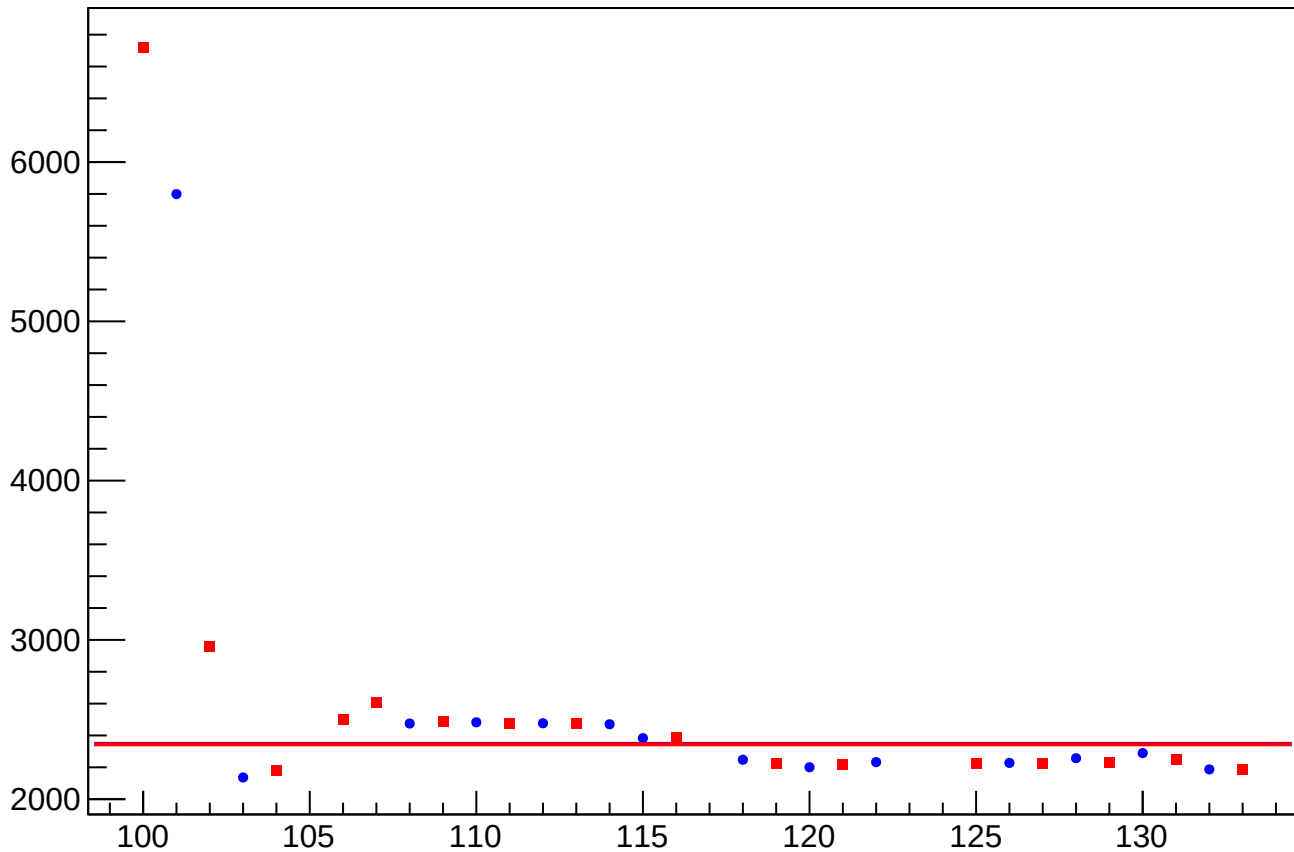
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 202.598+/-672.532  $\chi^2/\text{NDF}$ : 60.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2347.019+/-0.694  $\chi^2/\text{NDF}$ : 500879.8/13

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

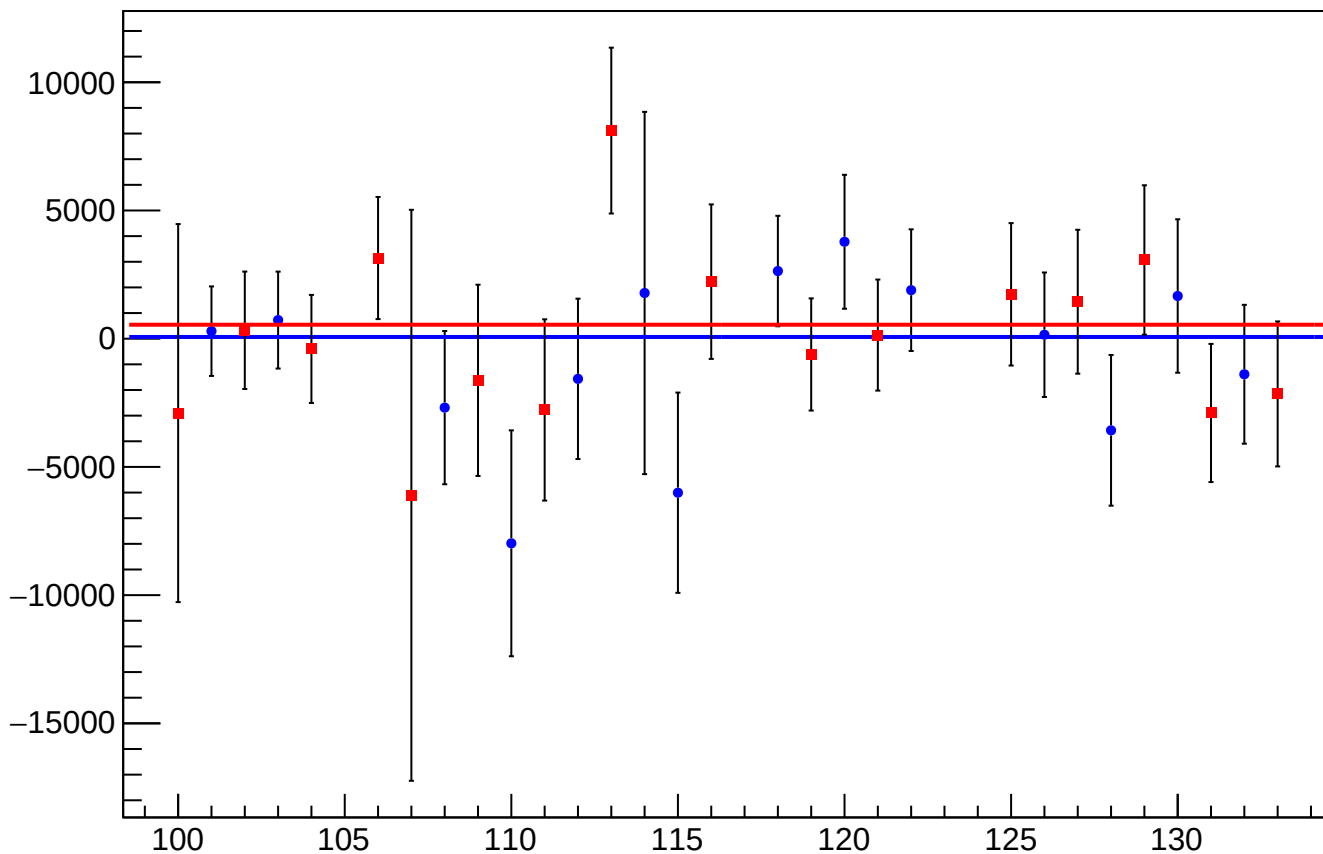
Right Out: 2344.310+/-0.653  $\chi^2/\text{NDF}$ : 147425.6/15

All: 2345.583+/-0.476  $\chi^2/\text{NDF}$ : 648313.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_cor\_correction\_mean vs Slug



Right In: 67.560+/-701.341  $\chi^2$ /NDF: 13.2/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 544.947+/-700.727  $\chi^2$ /NDF: 12.9/15

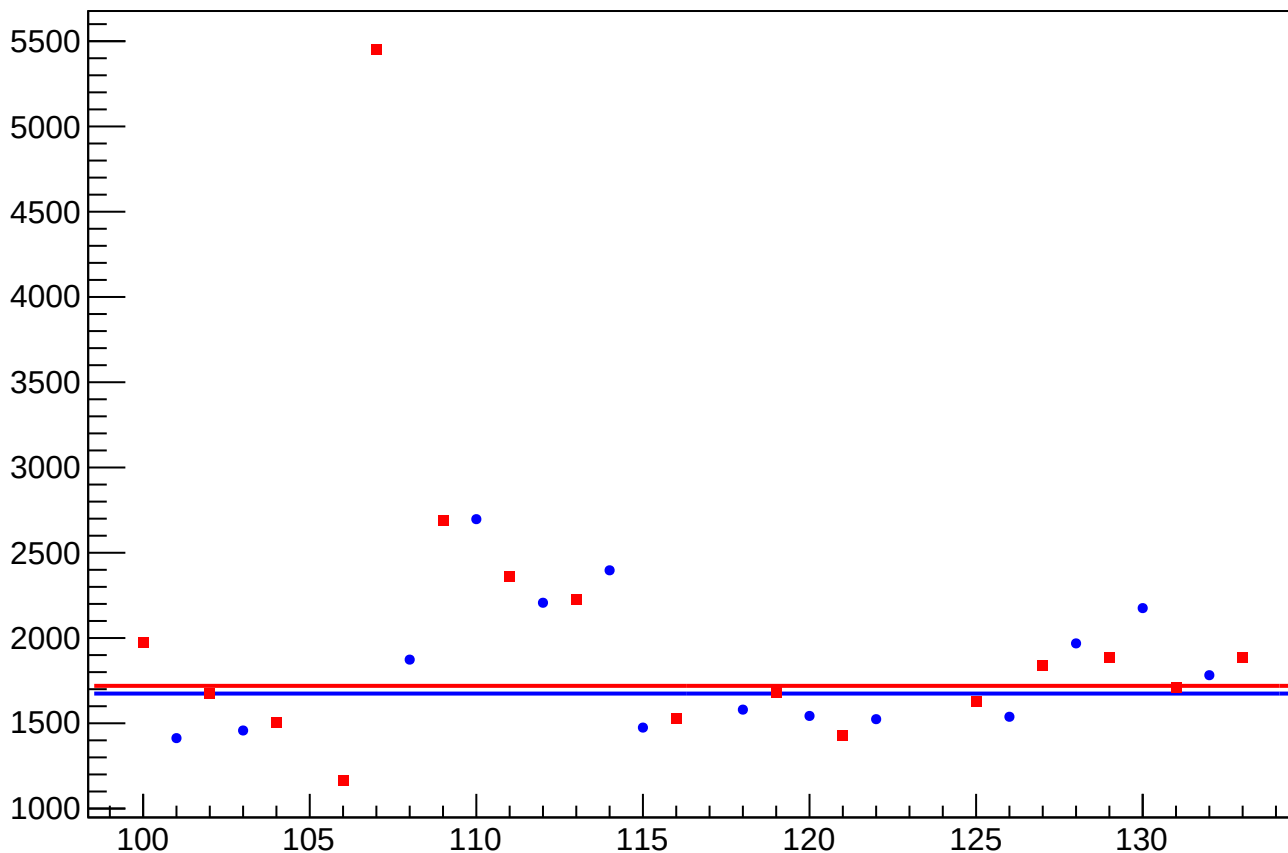
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 306.463+/-495.706  $\chi^2$ /NDF: 26.3/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_cor\_correction\_rms vs Slug



Right In: 1674.302+/-0.496  $\chi^2/\text{NDF}$ : 374455.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1719.533+/-0.495  $\chi^2/\text{NDF}$ : 671825.2/15

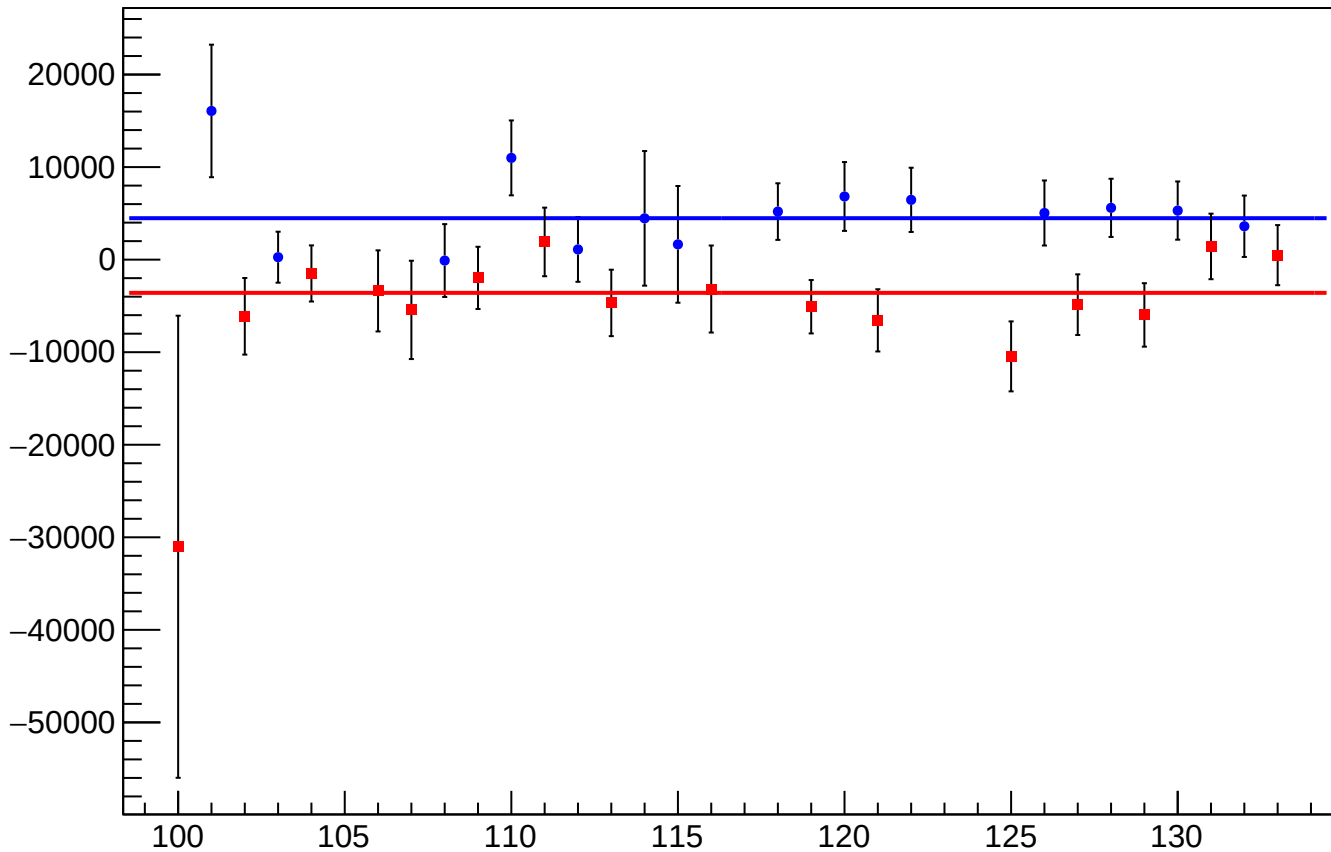
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1696.937+/-0.351  $\chi^2/\text{NDF}$ : 1050443.7/29

- 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: 4478.024+/-981.037  $\chi^2/\text{NDF}$ : 11.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3588.124+/-923.755  $\chi^2/\text{NDF}$ : 13.3/15

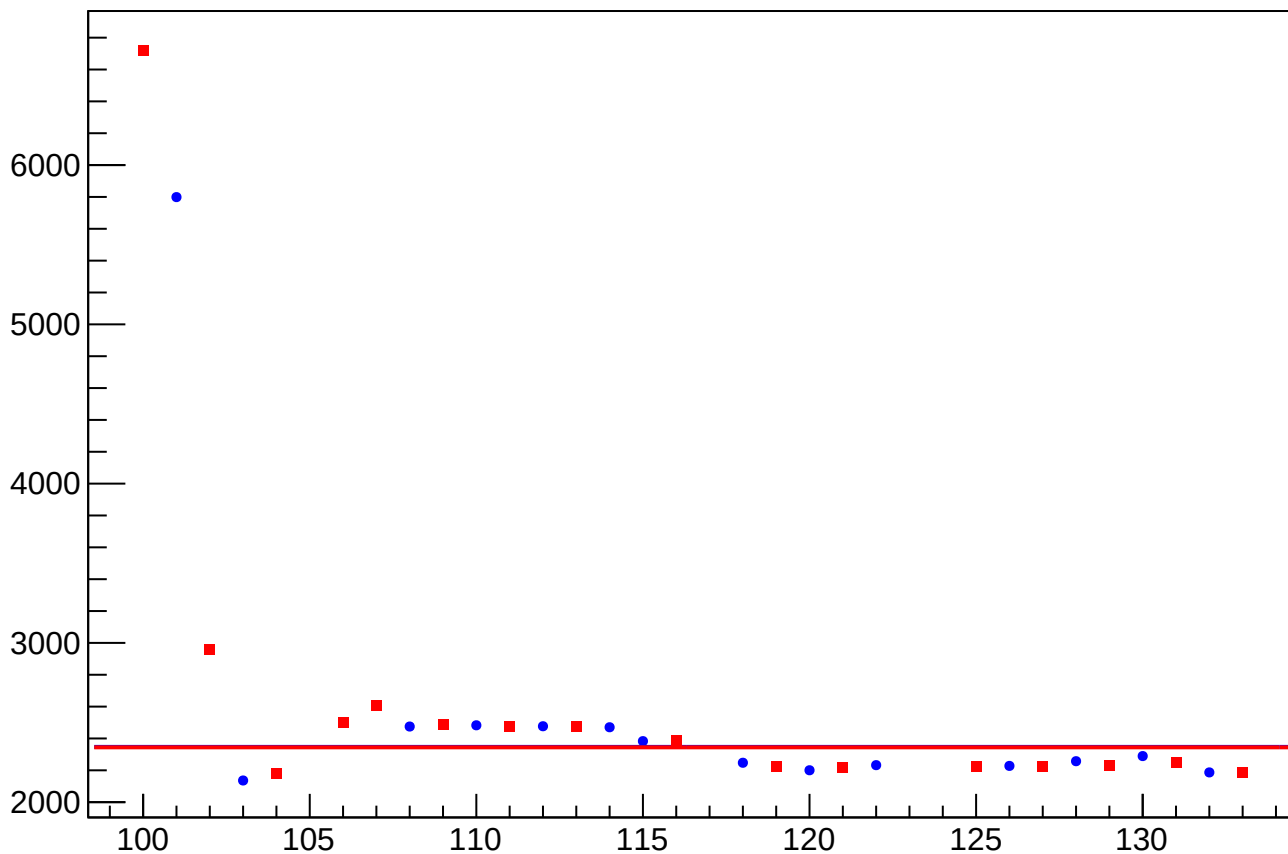
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 202.598+/-672.532  $\chi^2/\text{NDF}$ : 60.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2347.019+/-0.694  $\chi^2/\text{NDF}$ : 500879.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2344.310+/-0.653  $\chi^2/\text{NDF}$ : 147425.6/15

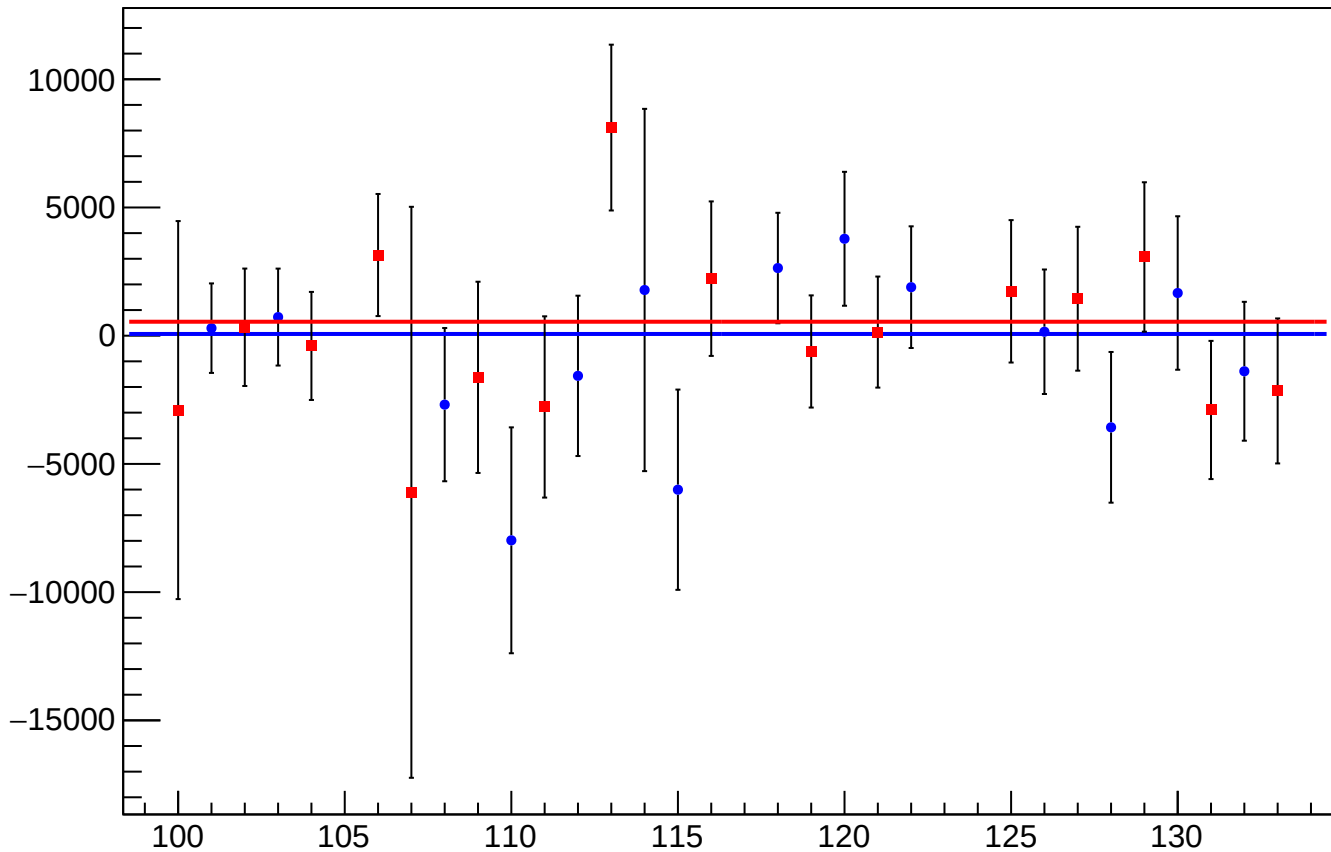
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2345.583+/-0.476  $\chi^2/\text{NDF}$ : 648313.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 67.560+/-701.341  $\chi^2/\text{NDF}$ : 13.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 544.947+/-700.727  $\chi^2/\text{NDF}$ : 12.9/15

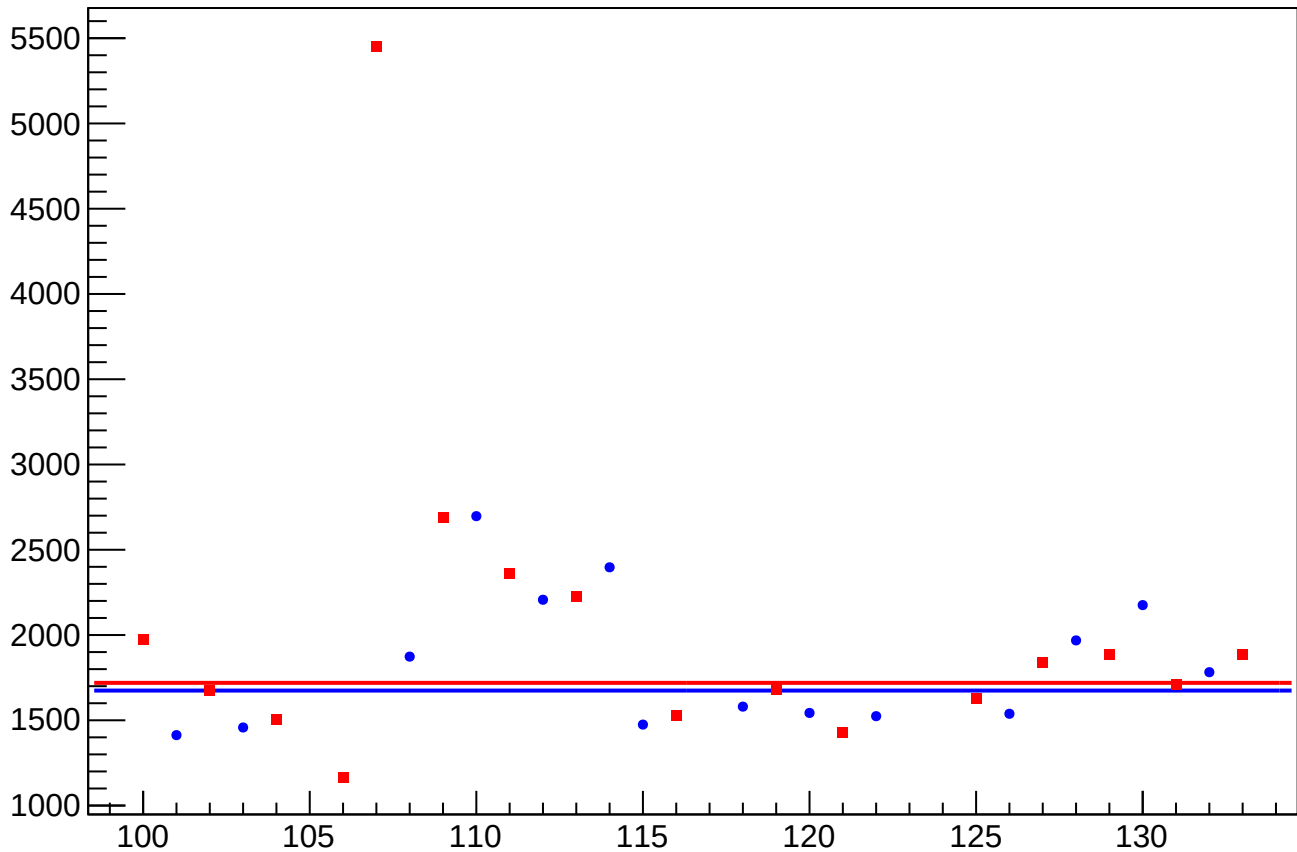
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 306.463+/-495.706  $\chi^2/\text{NDF}$ : 26.3/29

- 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: 1674.302+/-0.496  $\chi^2/\text{NDF}$ : 374455.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1719.533+/-0.495  $\chi^2/\text{NDF}$ : 671825.2/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

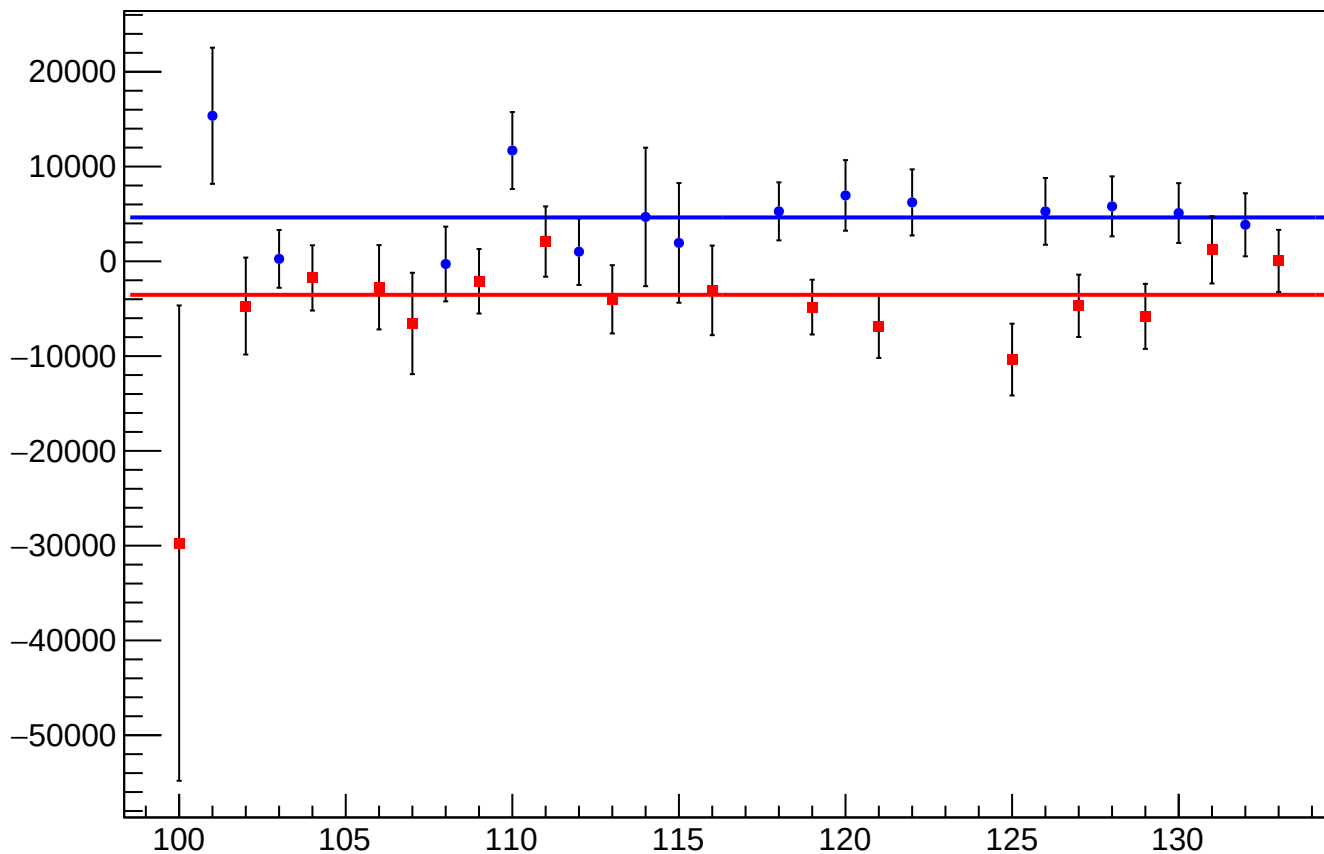
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1696.937+/-0.351  $\chi^2/\text{NDF}$ : 1050443.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug



Right In: 4632.561+/-995.374  $\chi^2/\text{NDF}$ : 11.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3531.253+/-945.772  $\chi^2/\text{NDF}$ : 12.2/15

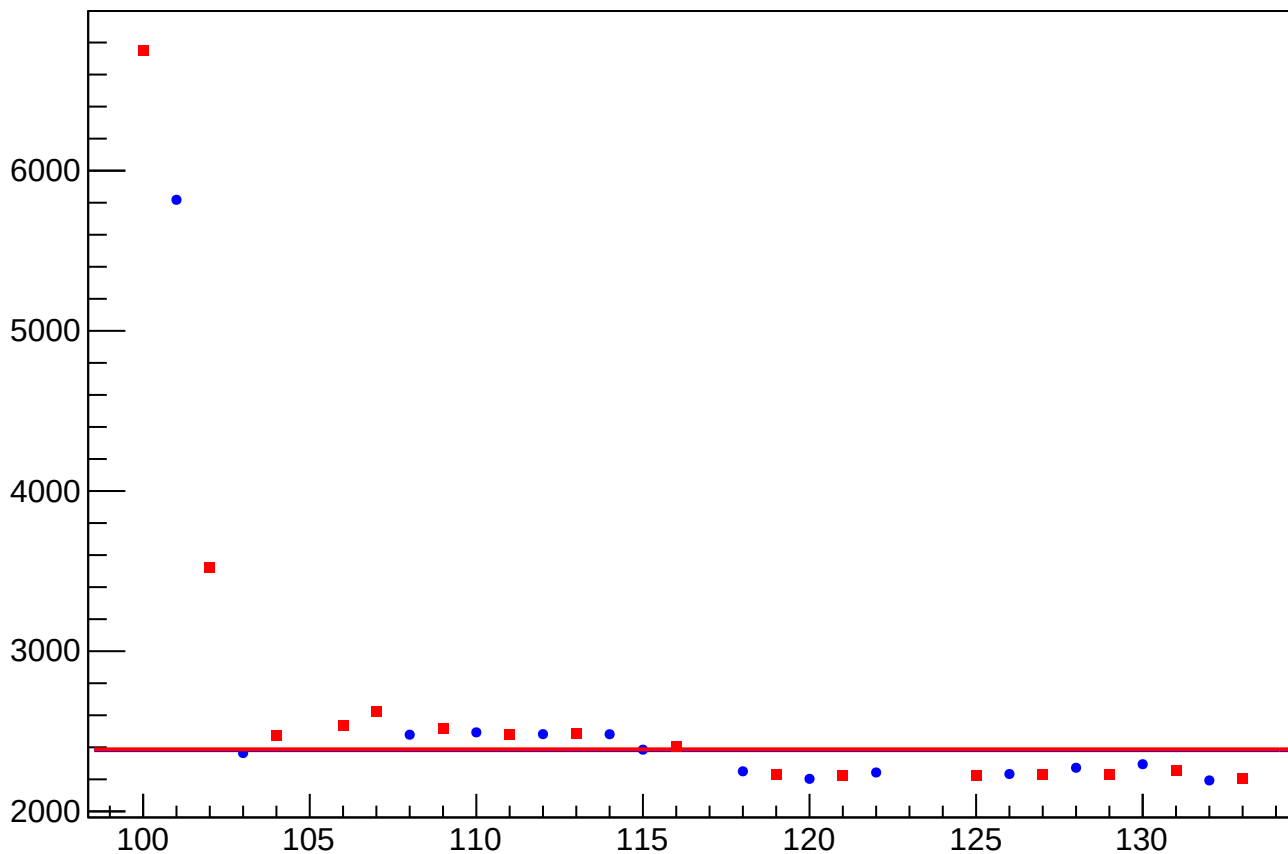
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 342.181+/-685.627  $\chi^2/\text{NDF}$ : 58.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 2382.457+/-0.704  $\chi^2/\text{NDF}$ : 487650.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2387.198+/-0.669  $\chi^2/\text{NDF}$ : 203995.8/15

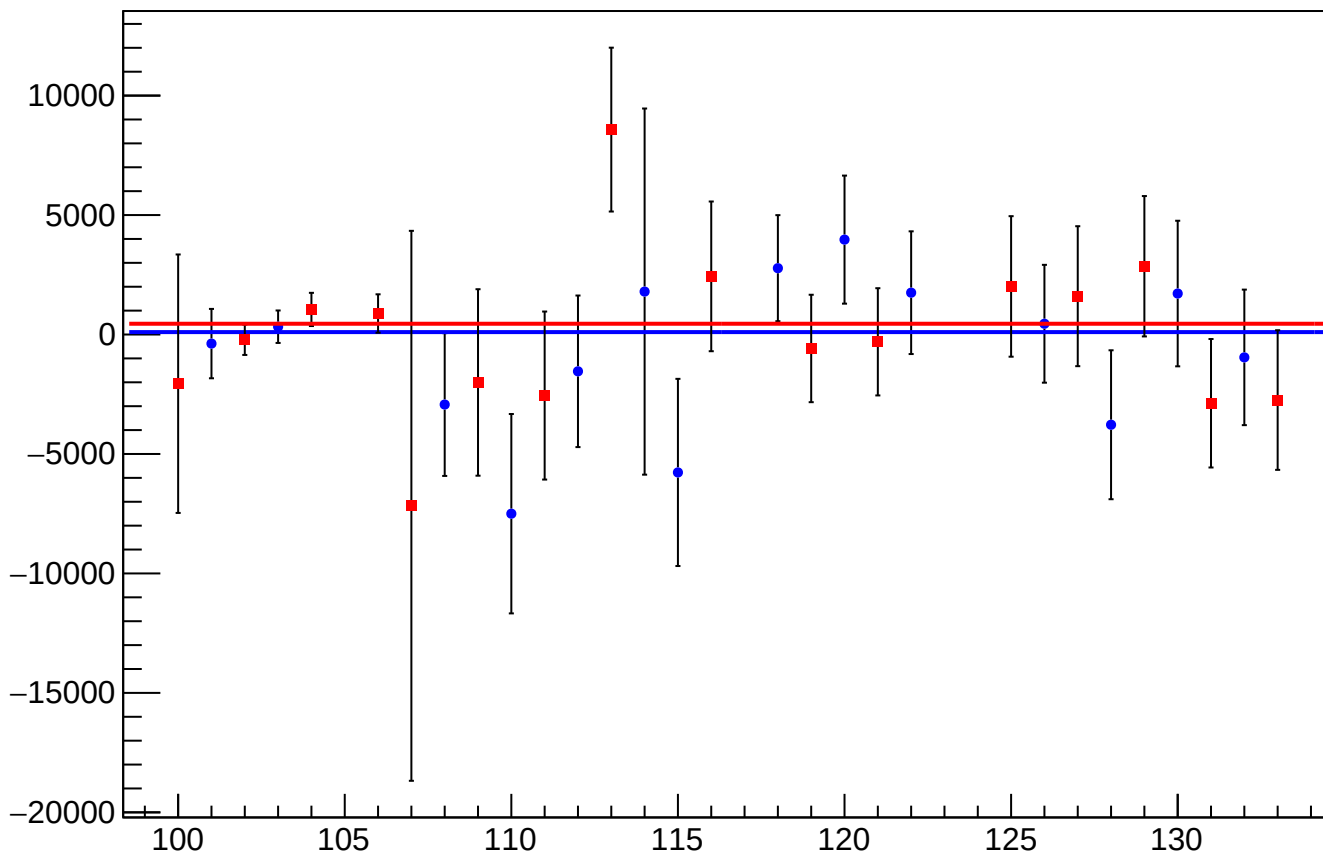
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2384.949+/-0.485  $\chi^2/\text{NDF}$ : 691669.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_correction\_mean vs Slug



Right In: 101.141 $\pm$ 500.934  $\chi^2$ /NDF: 13.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 450.920 $\pm$ 365.955  $\chi^2$ /NDF: 14.1/15

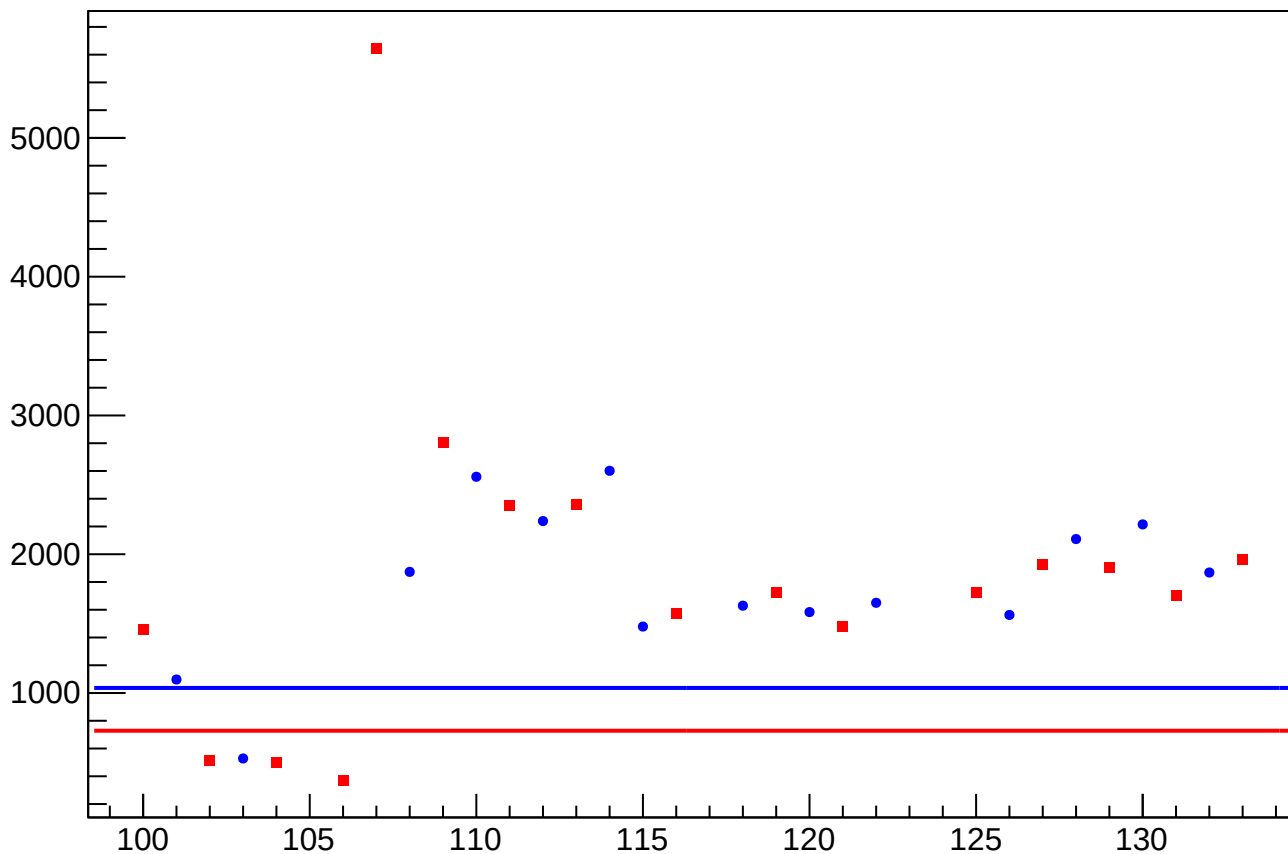
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 329.204 $\pm$ 295.500  $\chi^2$ /NDF: 27.5/29

- 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: 1036.624+/-0.354  $\chi^2/\text{NDF}$ : 3081849.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 728.309+/-0.259  $\chi^2/\text{NDF}$ : 4962298.3/15

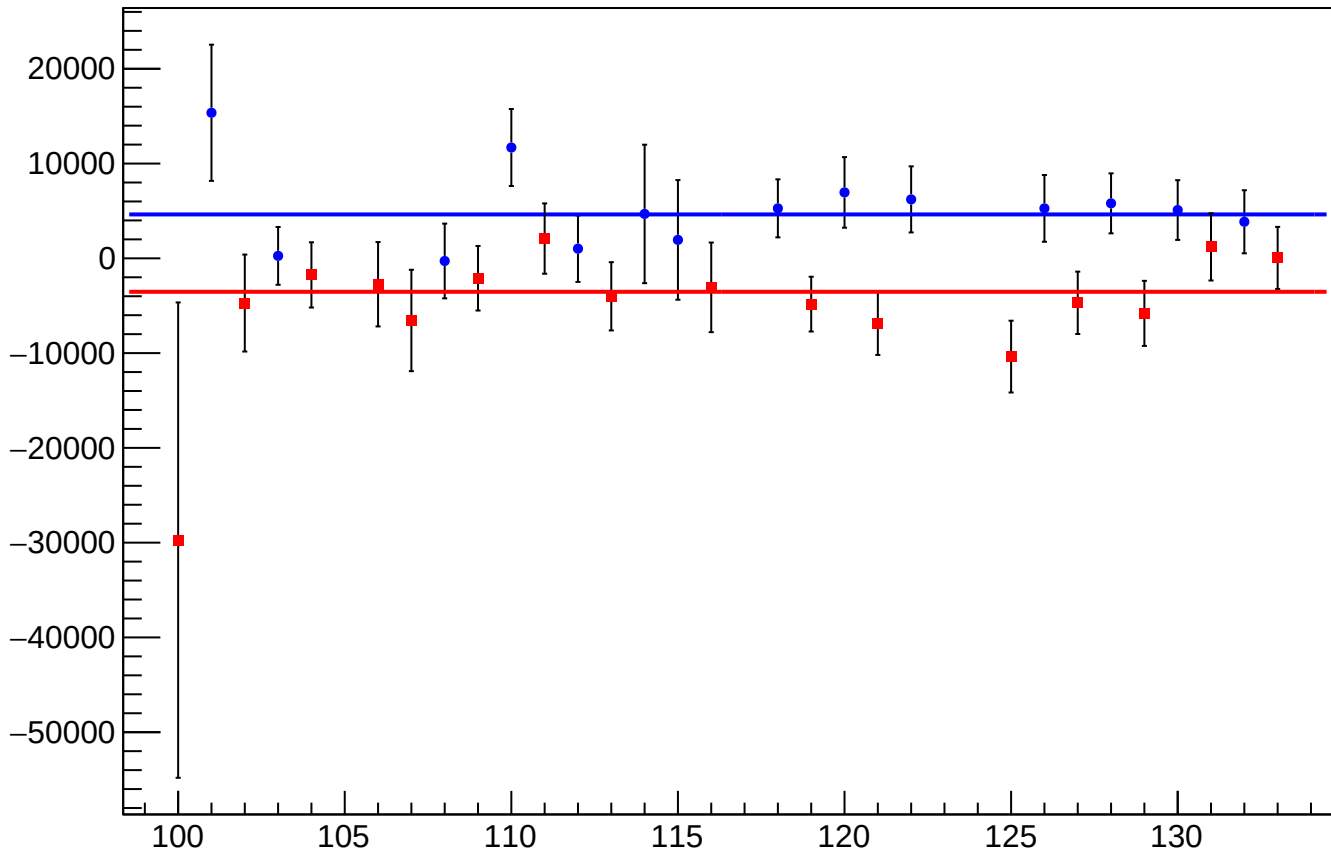
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 835.596+/-0.209  $\chi^2/\text{NDF}$ : 8538139.9/29

- 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: 4632.560+/-995.373  $\chi^2/\text{NDF}$ : 11.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3531.250+/-945.771  $\chi^2/\text{NDF}$ : 12.2/15

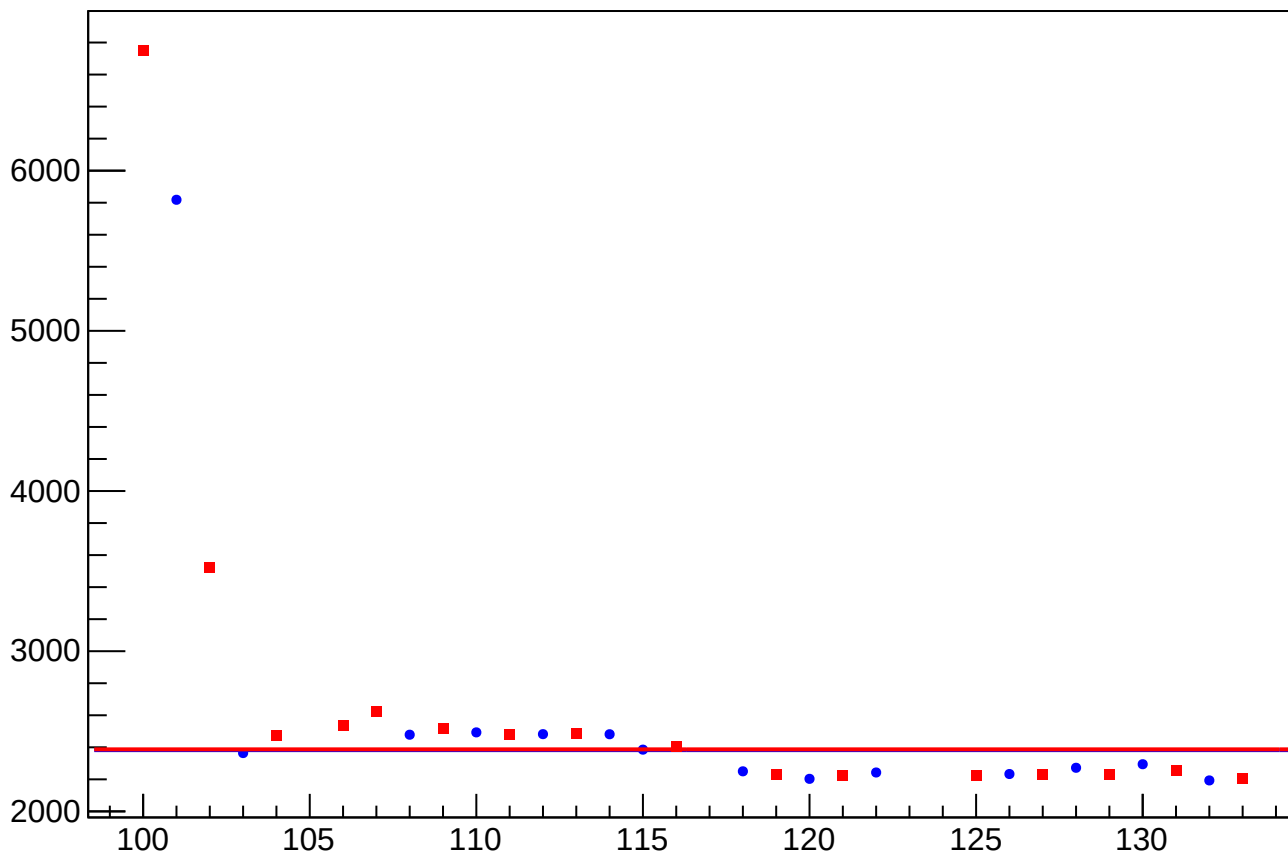
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 342.181+/-685.626  $\chi^2/\text{NDF}$ : 58.6/29

- 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: 2382.456+/-0.704  $\chi^2/\text{NDF}$ : 487650.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2387.198+/-0.669  $\chi^2/\text{NDF}$ : 203994.7/15

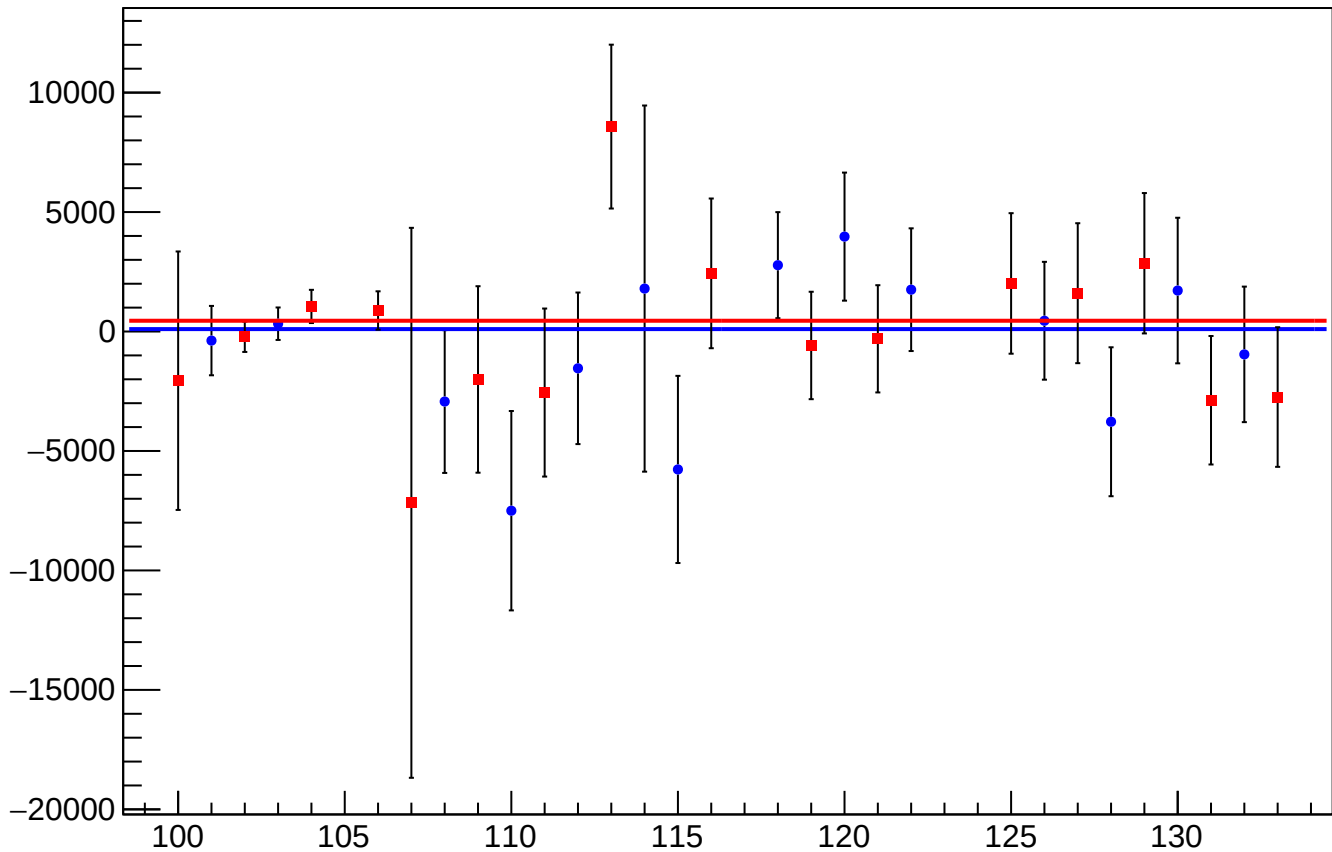
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2384.948+/-0.485  $\chi^2/\text{NDF}$ : 691668.8/29

- 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: 101.135 $\pm$ 500.936  $\chi^2$ /NDF: 13.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 450.924 $\pm$ 365.960  $\chi^2$ /NDF: 14.1/15

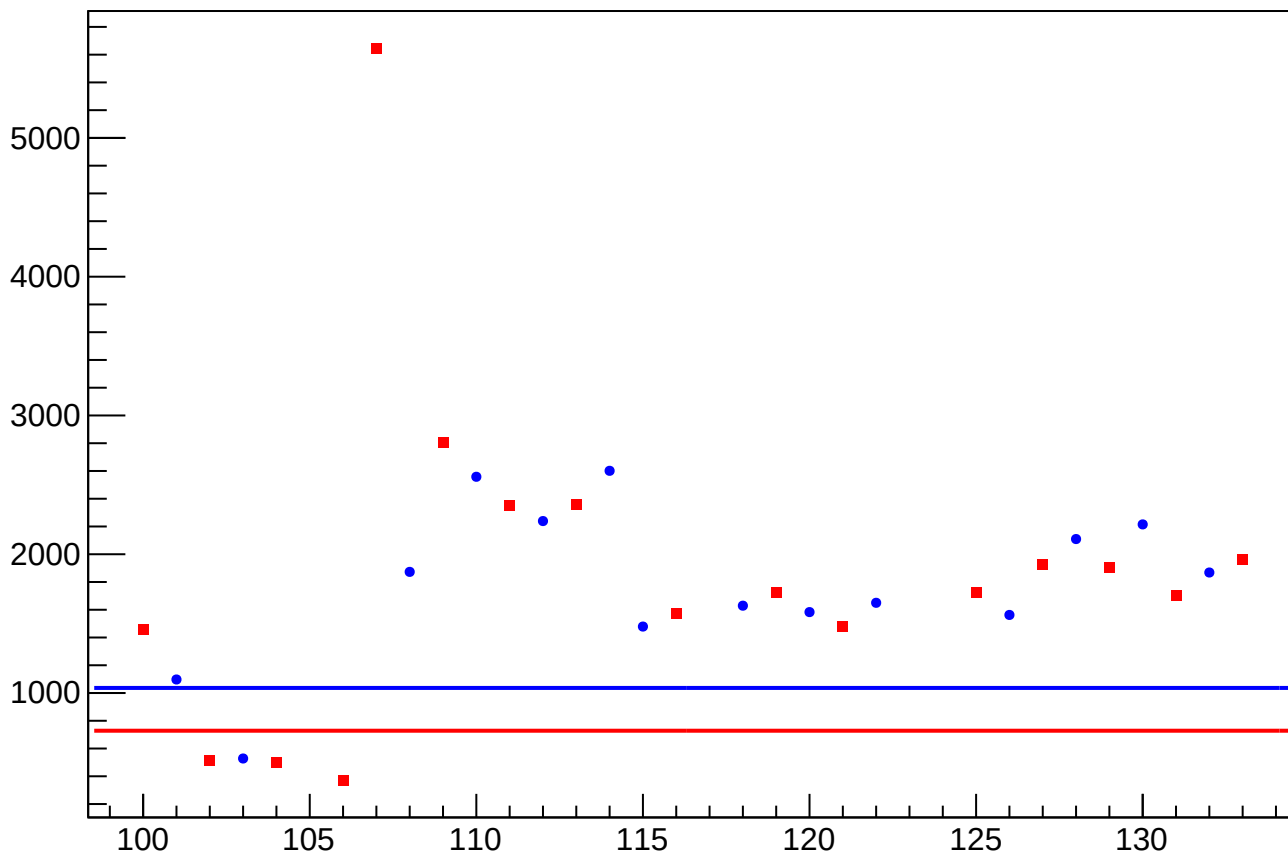
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 329.203 $\pm$ 295.503  $\chi^2$ /NDF: 27.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1036.634+/-0.354  $\chi^2/\text{NDF}$ : 3081784.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 728.323+/-0.259  $\chi^2/\text{NDF}$ : 4962191.6/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

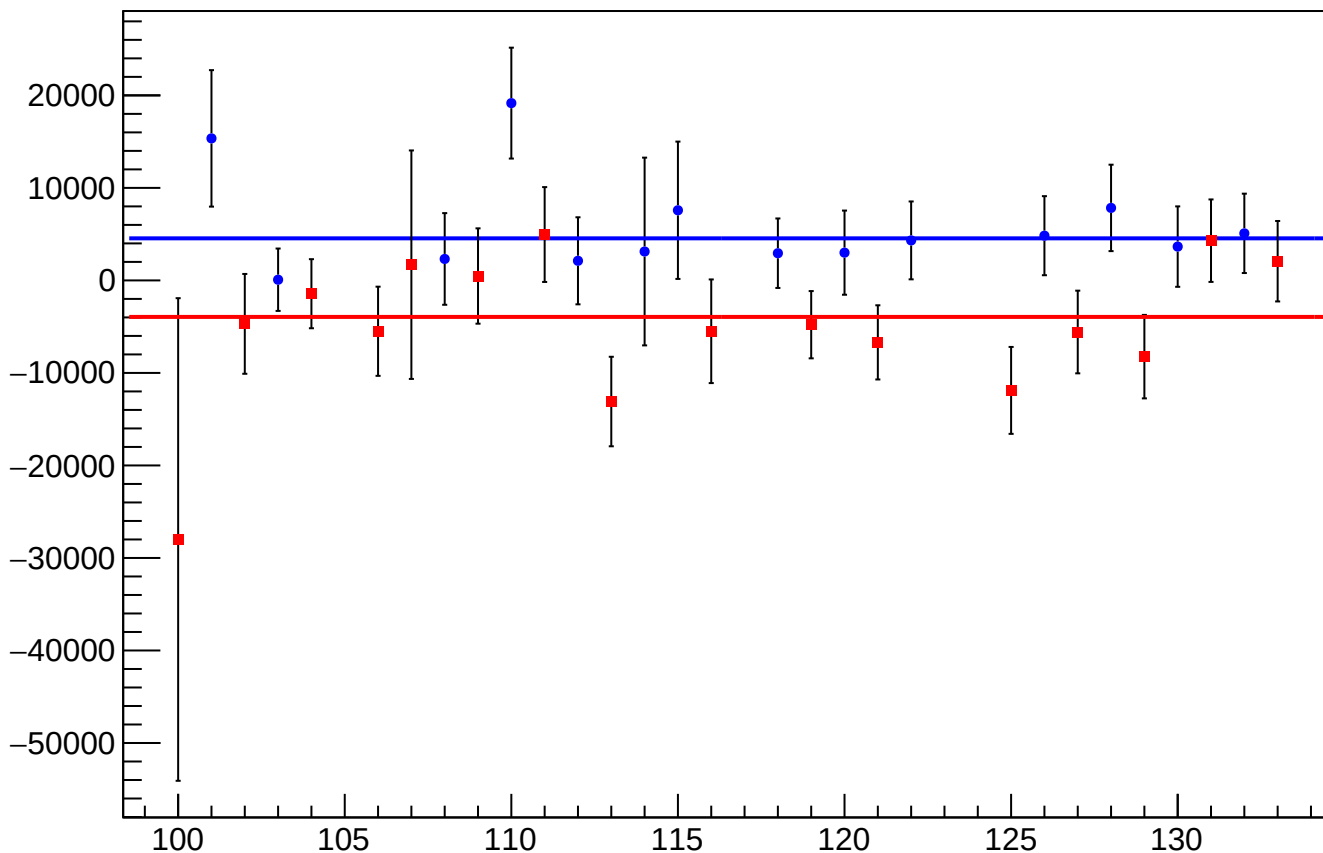
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 835.611+/-0.209  $\chi^2/\text{NDF}$ : 8537943.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug



Right In: 4547.173+/-1258.280  $\chi^2/\text{NDF}$ : 11.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3945.776+/-1201.103  $\chi^2/\text{NDF}$ : 18.8/15

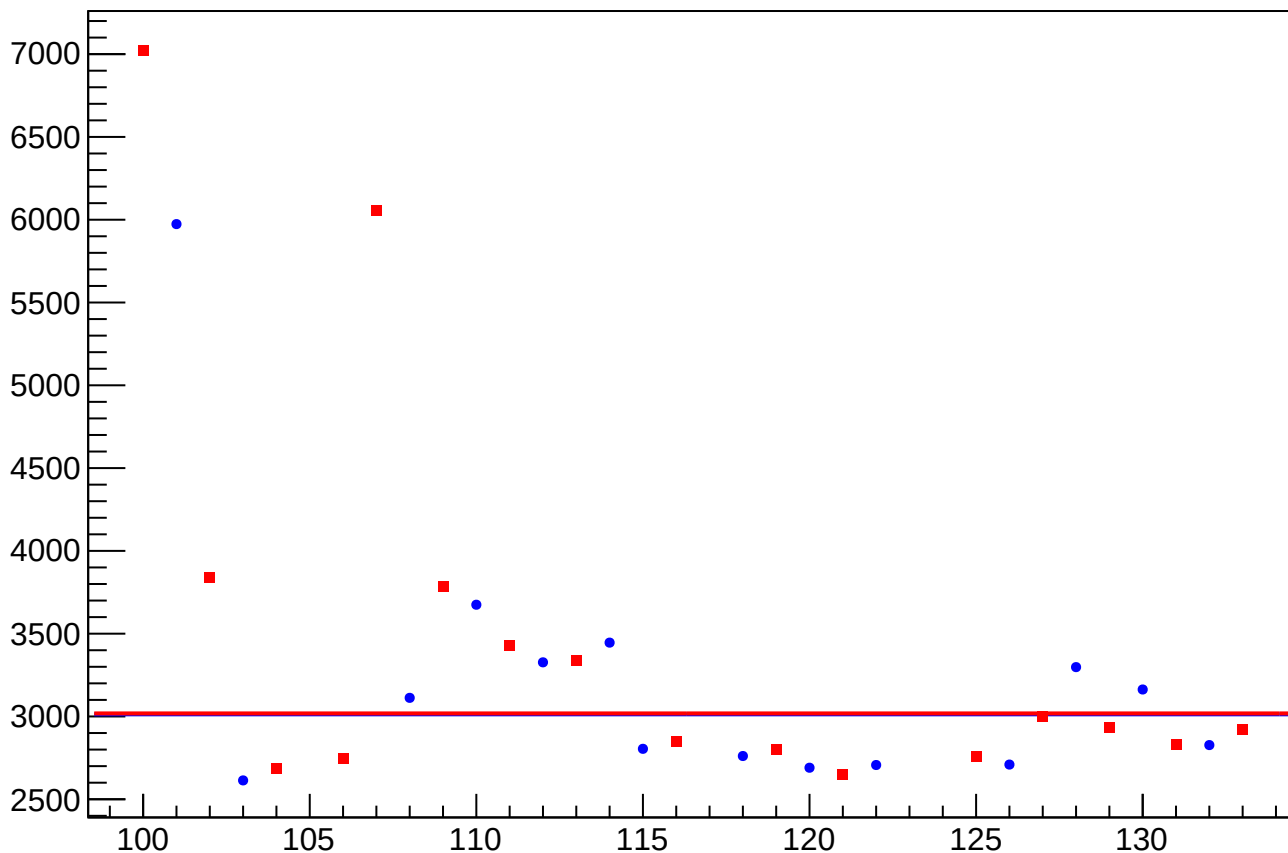
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 103.356+/-868.819  $\chi^2/\text{NDF}$ : 54.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug



Right In: 3012.901+/-0.890  $\chi^2/\text{NDF}$ : 442886.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3018.449+/-0.849  $\chi^2/\text{NDF}$ : 339075.4/15

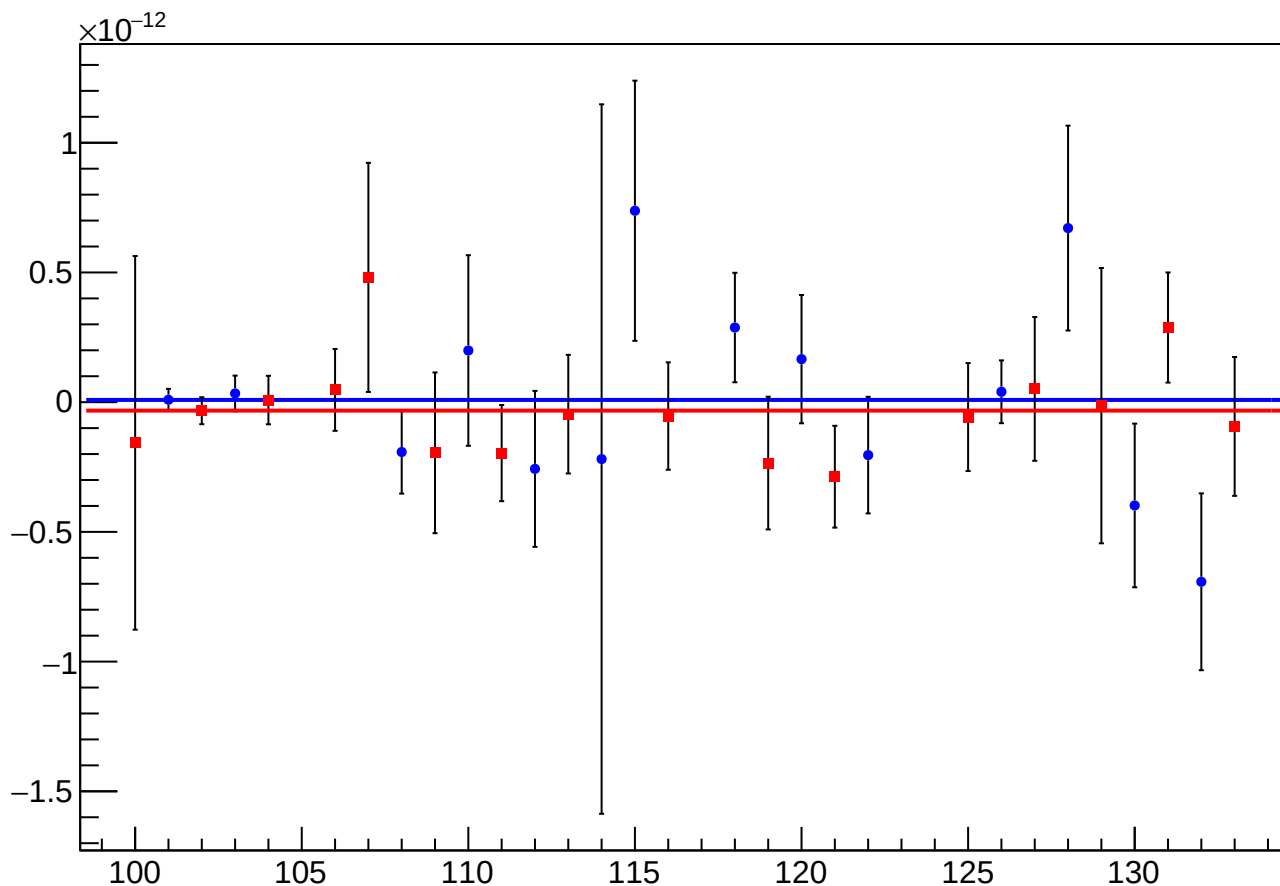
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3015.804+/-0.614  $\chi^2/\text{NDF}$ : 781982.4/29

- 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  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.6/15

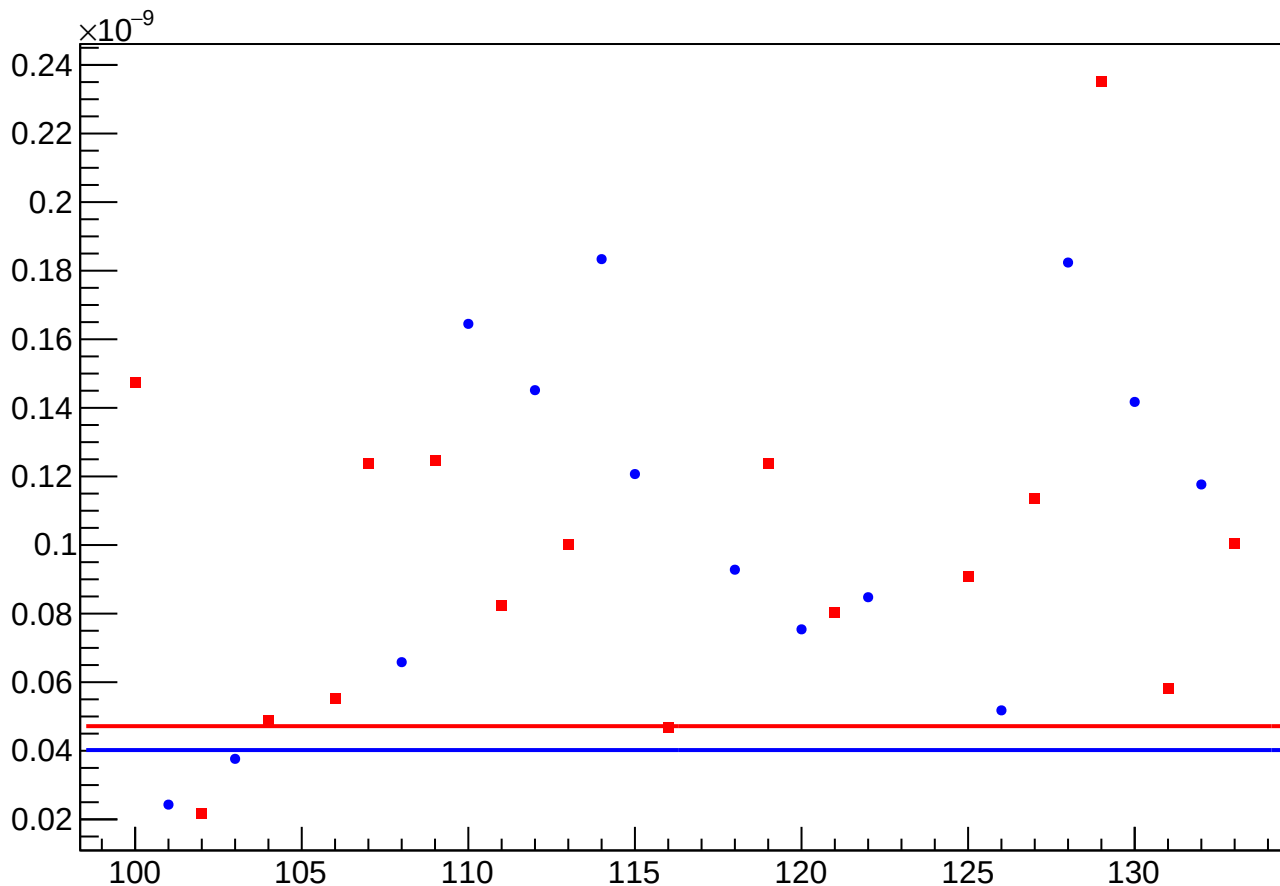
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 25.1/29

- 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  $\chi^2/\text{NDF}$ : 1716959.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1668309.6/15

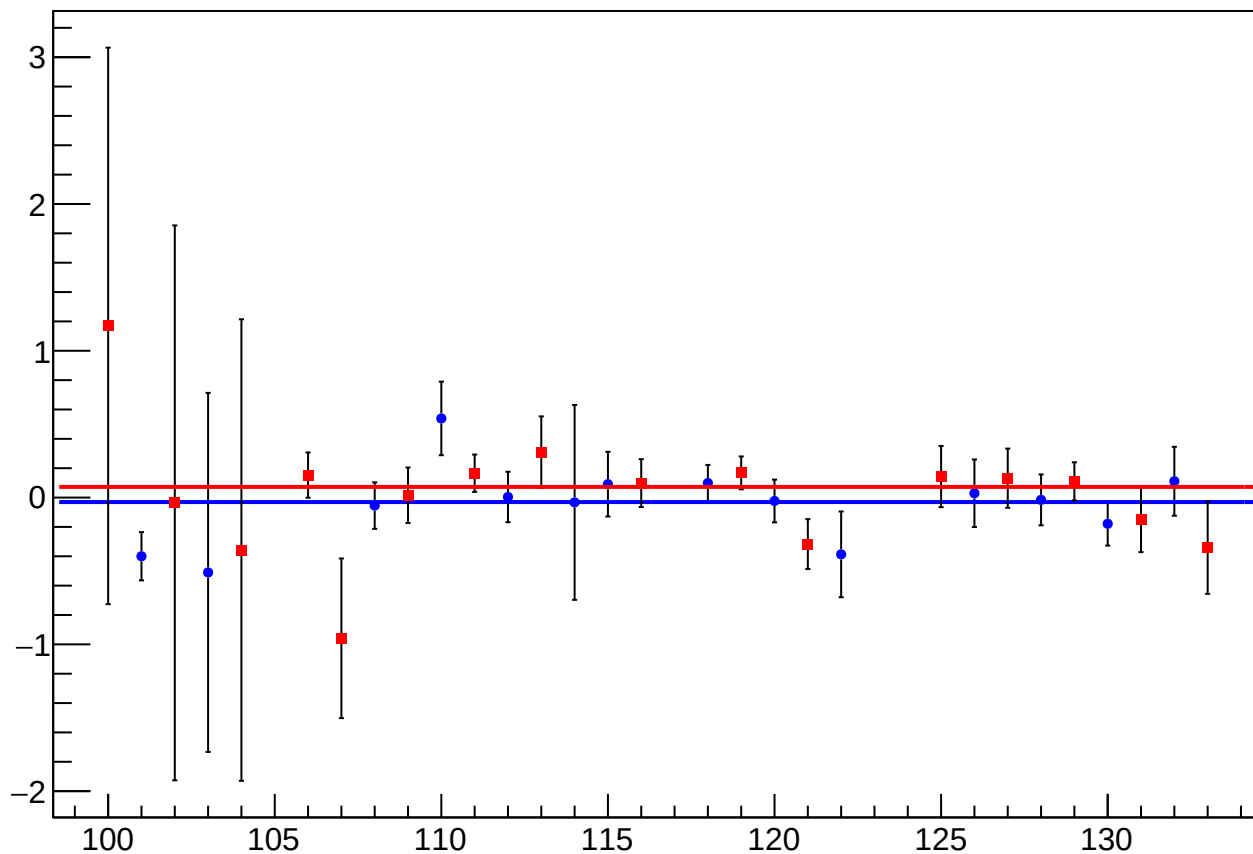
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3426214.0/29

- 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:  $-0.031 \pm 0.051$   $\chi^2/\text{NDF}$ : 14.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.073 \pm 0.048$   $\chi^2/\text{NDF}$ : 14.8/15

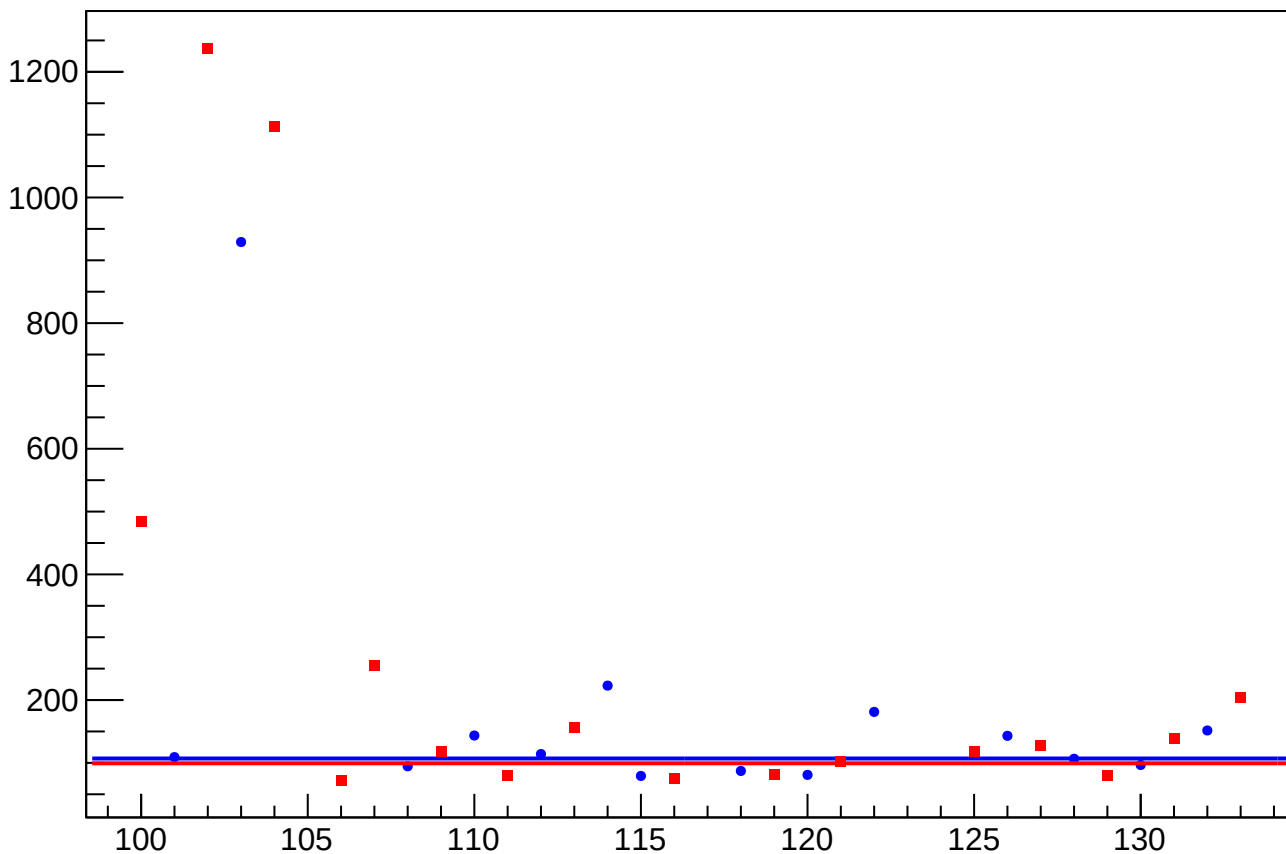
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.024 \pm 0.035$   $\chi^2/\text{NDF}$ : 31.8/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 106.941 $\pm$ 0.036  $\chi^2$ /NDF: 1431360.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 99.299 $\pm$ 0.034  $\chi^2$ /NDF: 2539419.6/15

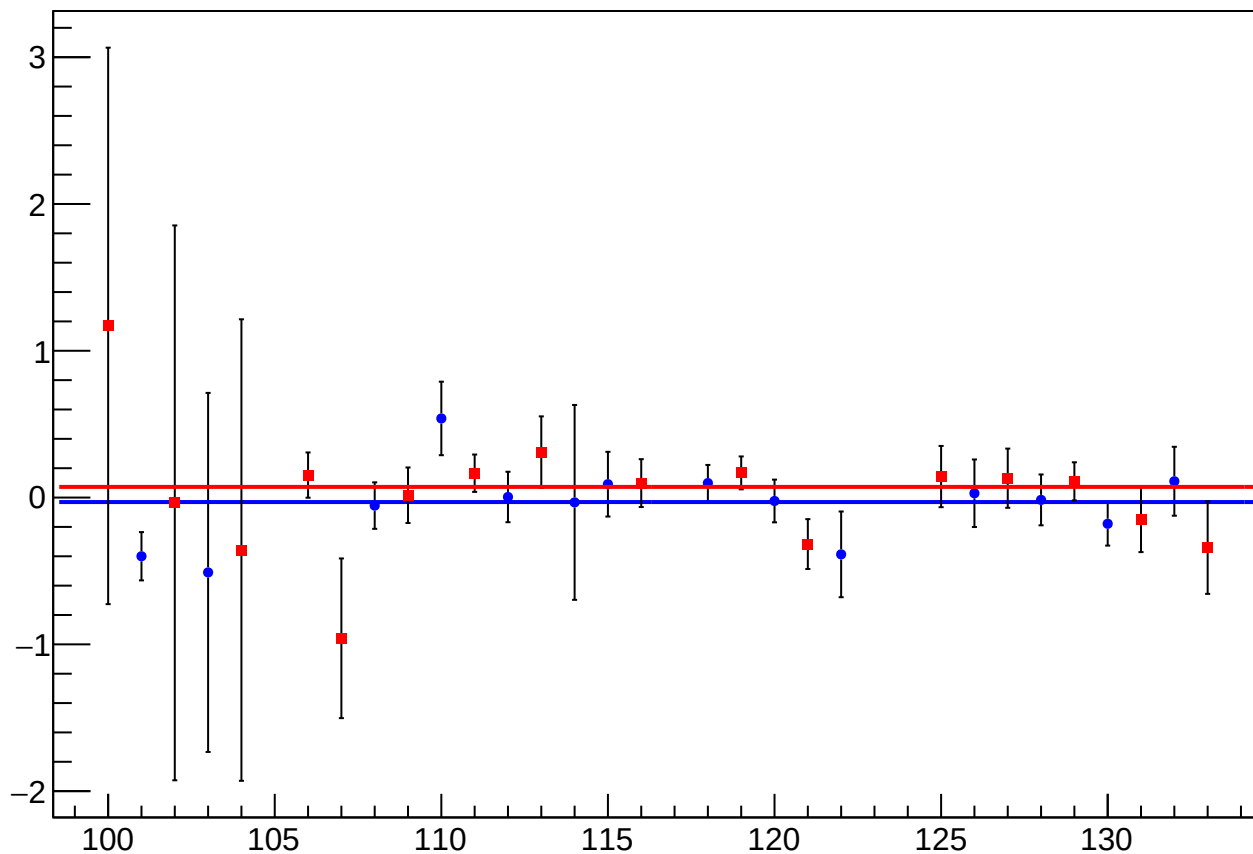
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 102.883 $\pm$ 0.025  $\chi^2$ /NDF: 3994991.0/29

- 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: -0.031 $\pm$ 0.051  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.073 $\pm$ 0.048  $\chi^2$ /NDF: 14.8/15

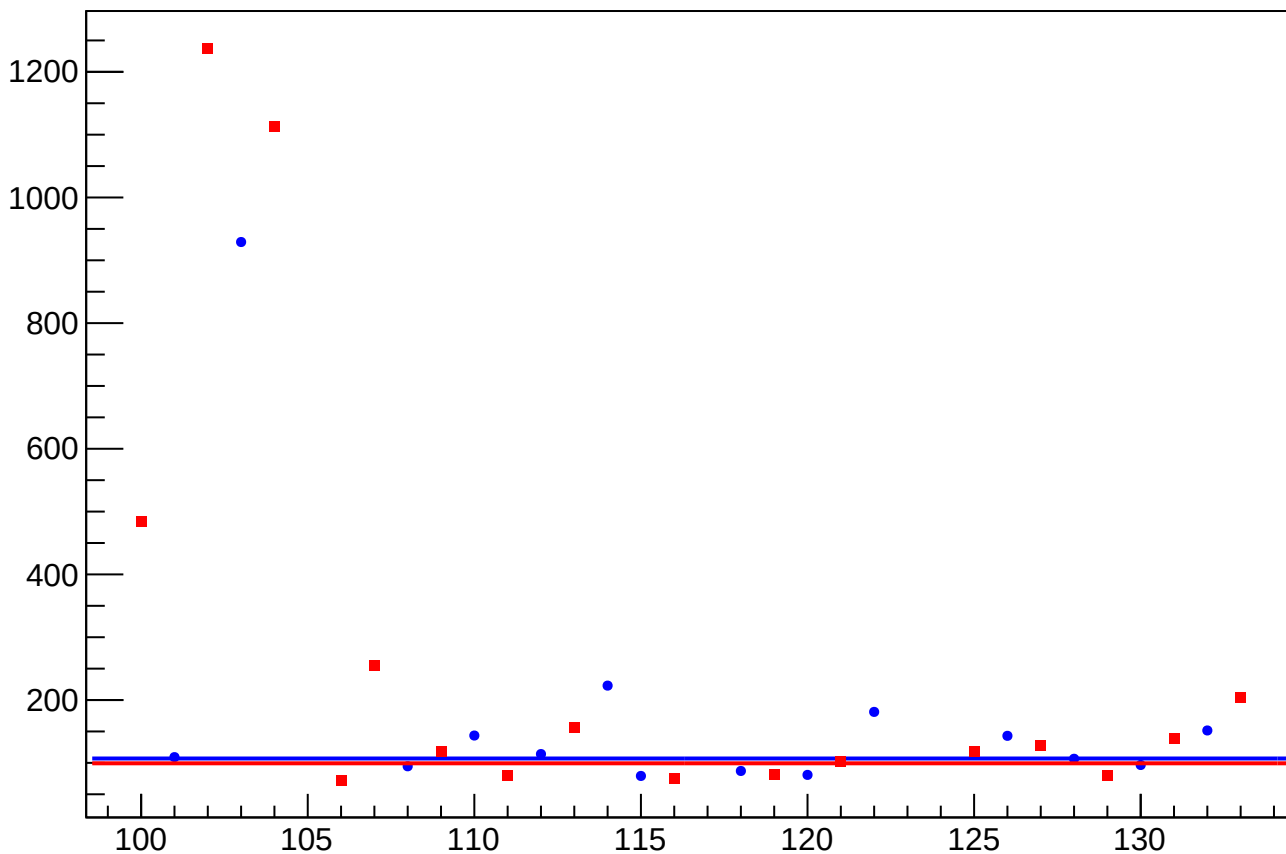
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.035  $\chi^2$ /NDF: 31.8/29

- 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: 106.941+/-0.036  $\chi^2/\text{NDF}$ : 1431360.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 99.299+/-0.034  $\chi^2/\text{NDF}$ : 2539419.6/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

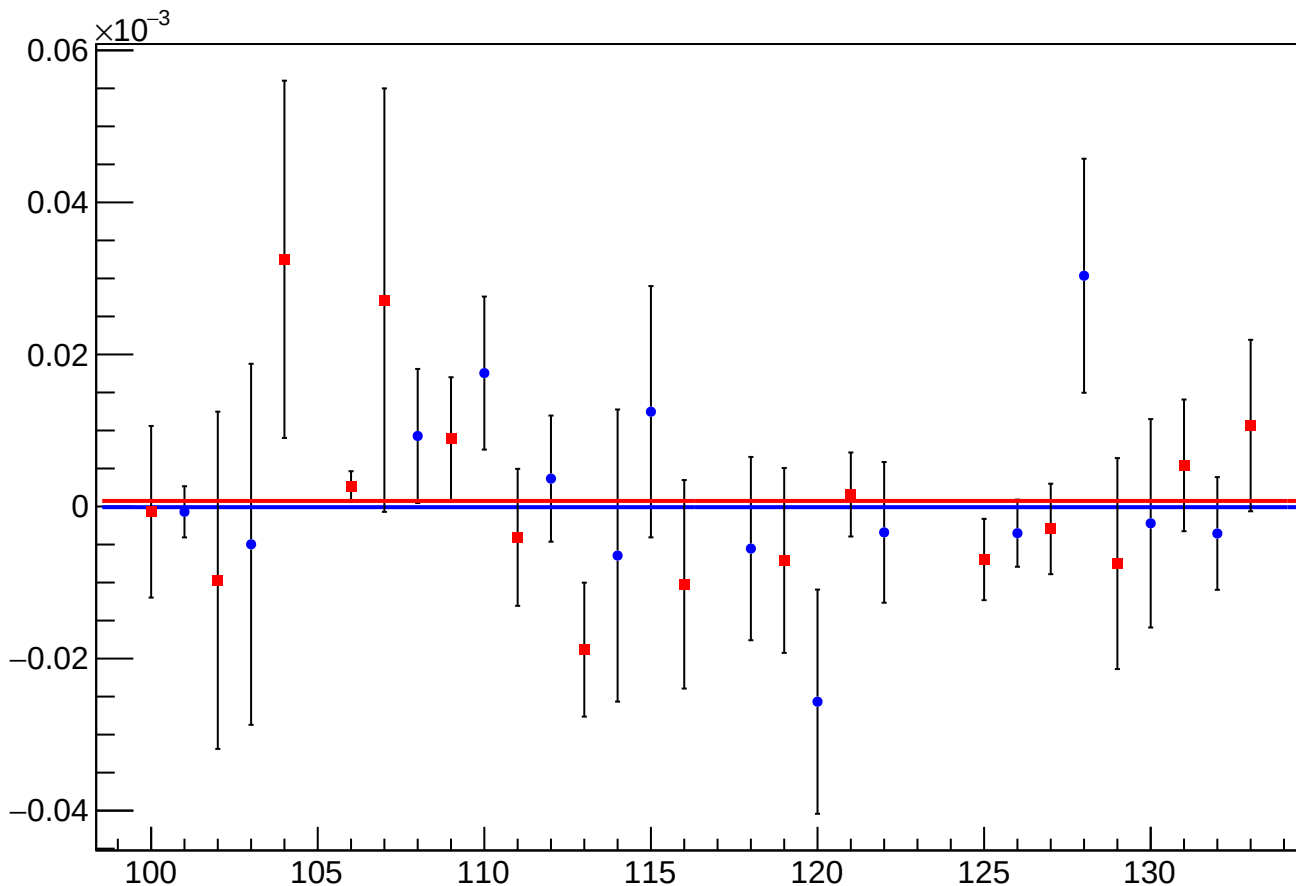
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 102.883+/-0.025  $\chi^2/\text{NDF}$ : 3994991.0/29

- 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: 13.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.1/15

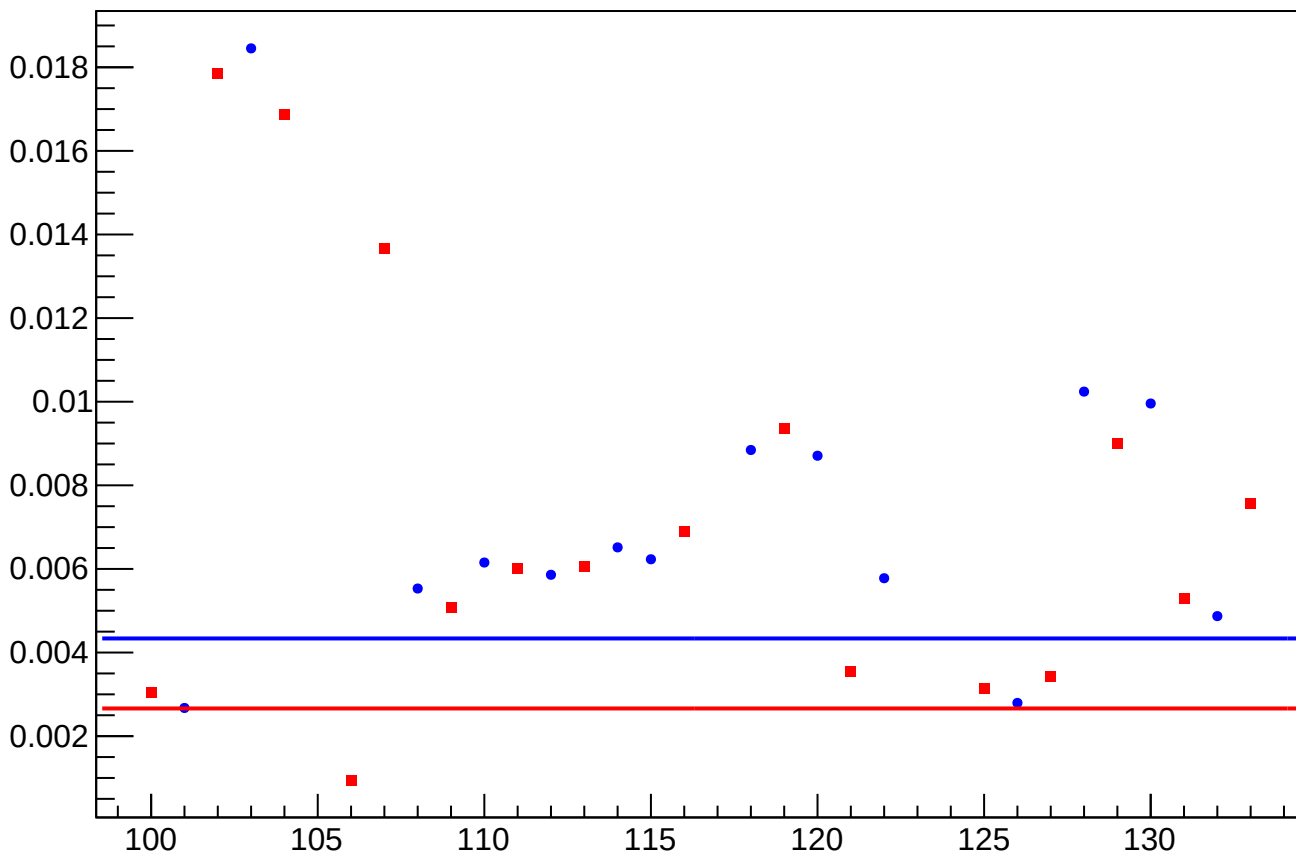
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 28.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 2805057.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 6130093.3/15

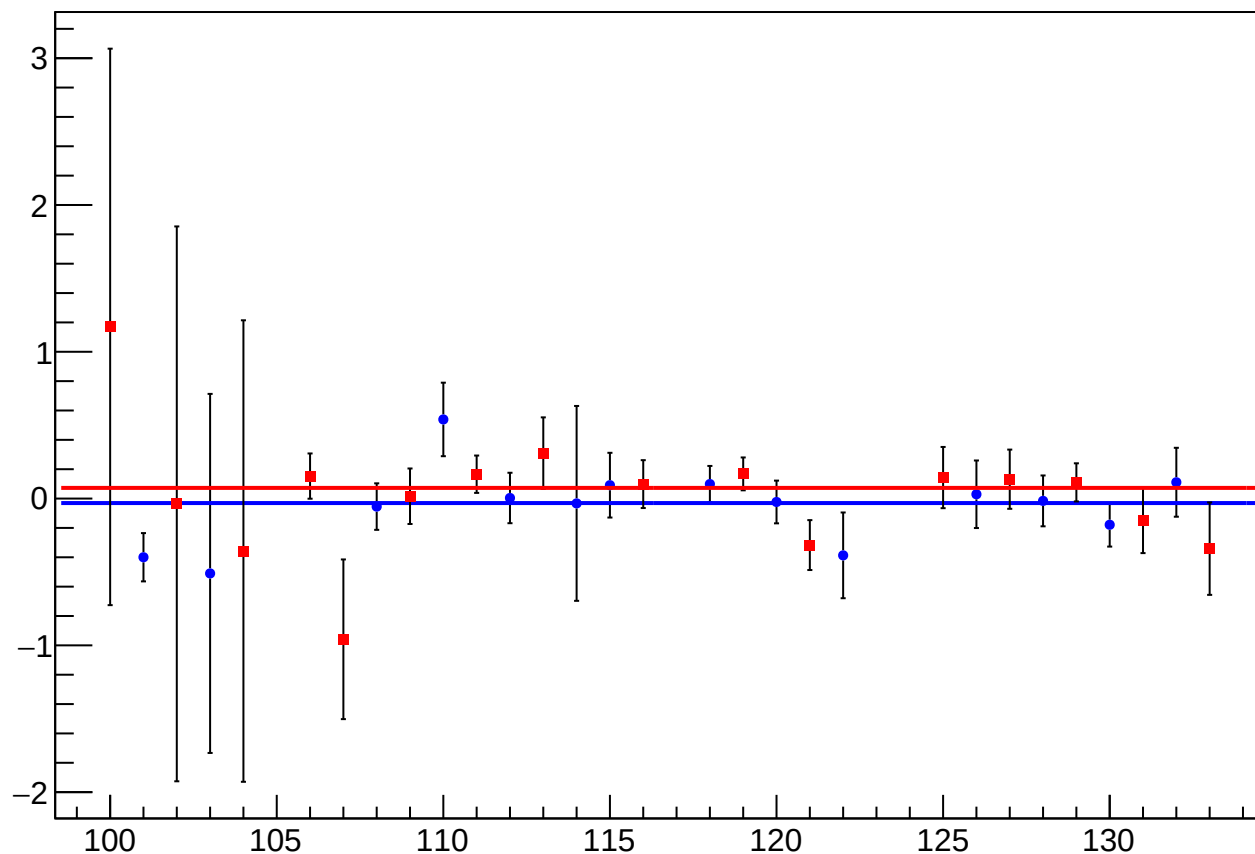
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 9797176.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.031 $\pm$ 0.051  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.073 $\pm$ 0.048  $\chi^2$ /NDF: 14.8/15

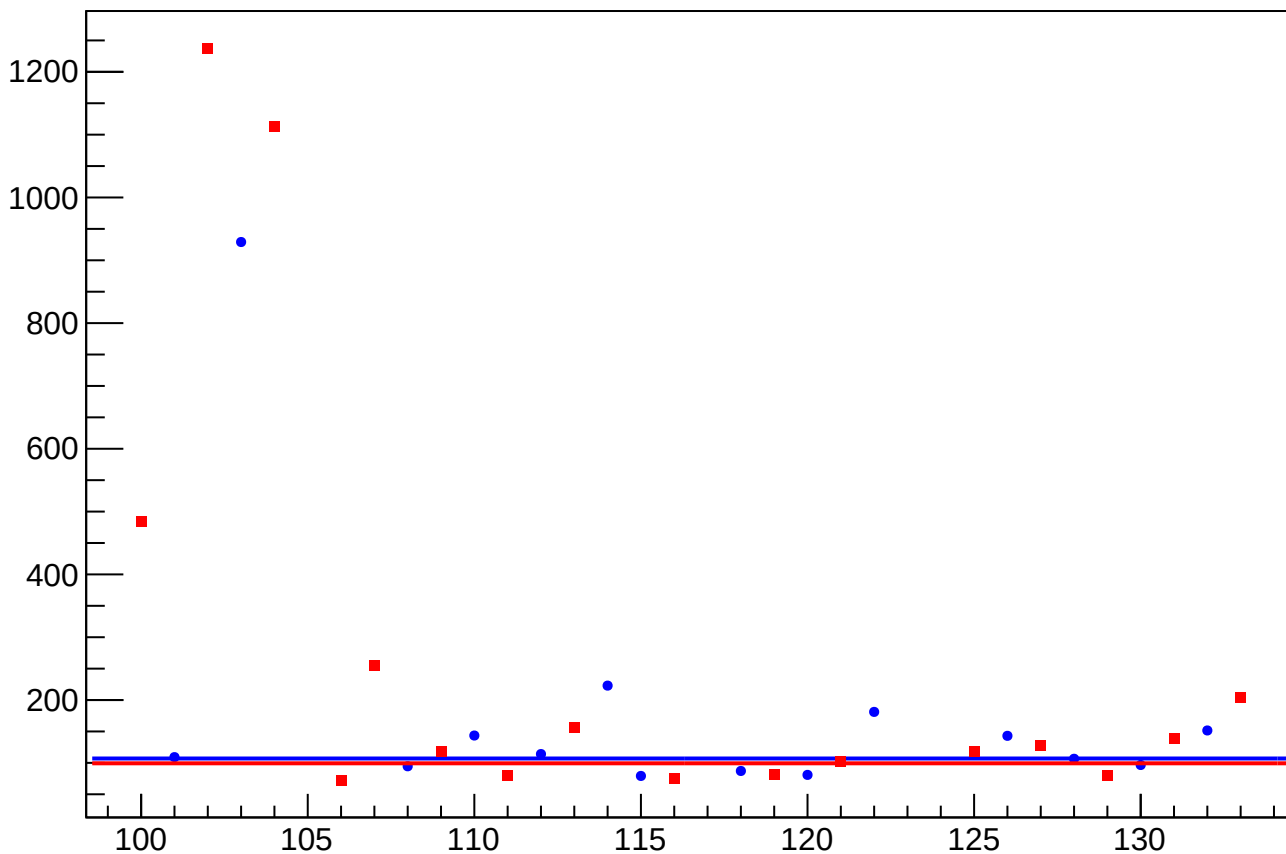
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.035  $\chi^2$ /NDF: 31.8/29

- 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: 106.938+/-0.036  $\chi^2/\text{NDF}$ : 1431386.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 99.297+/-0.034  $\chi^2/\text{NDF}$ : 2539409.4/15

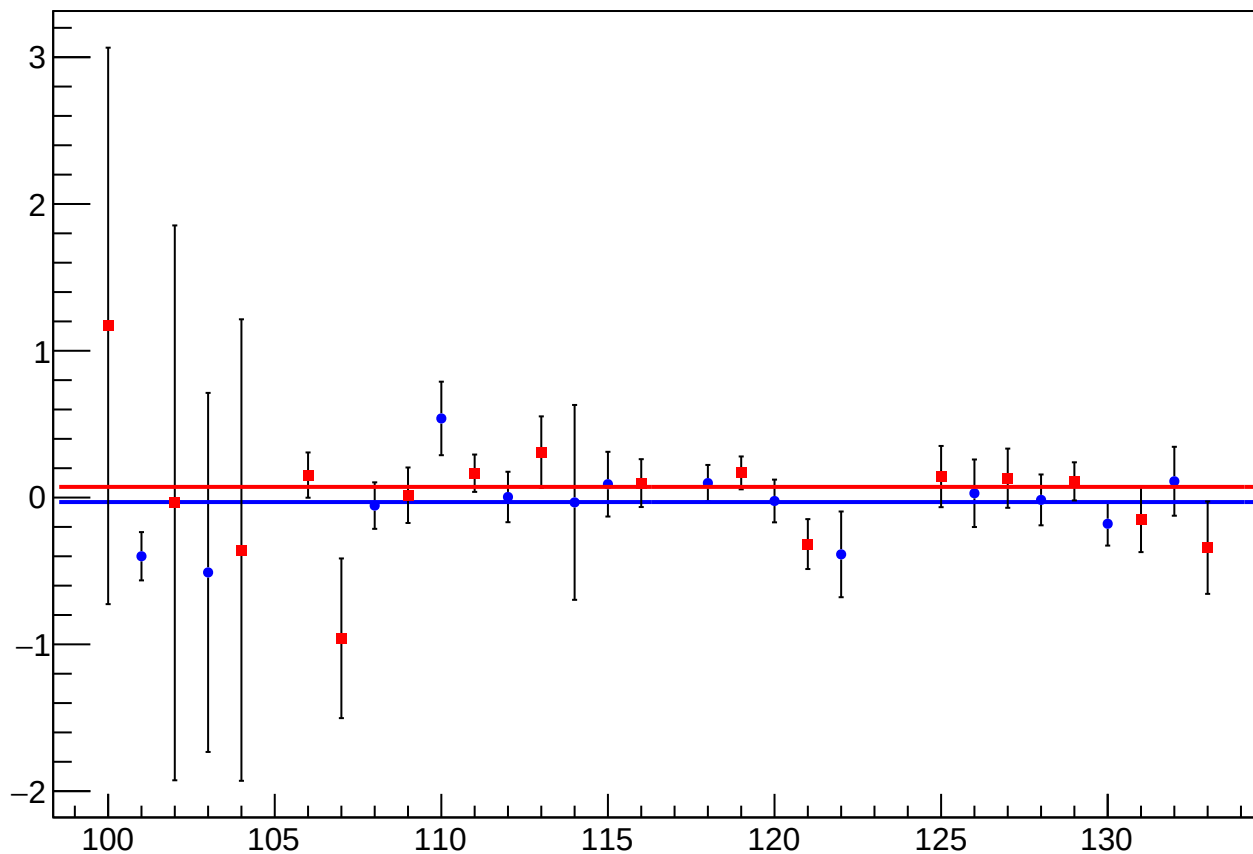
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 102.880+/-0.025  $\chi^2/\text{NDF}$ : 3994999.2/29

- 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:  $-0.031 \pm 0.051$   $\chi^2/\text{NDF}$ : 14.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.073 \pm 0.048$   $\chi^2/\text{NDF}$ : 14.8/15

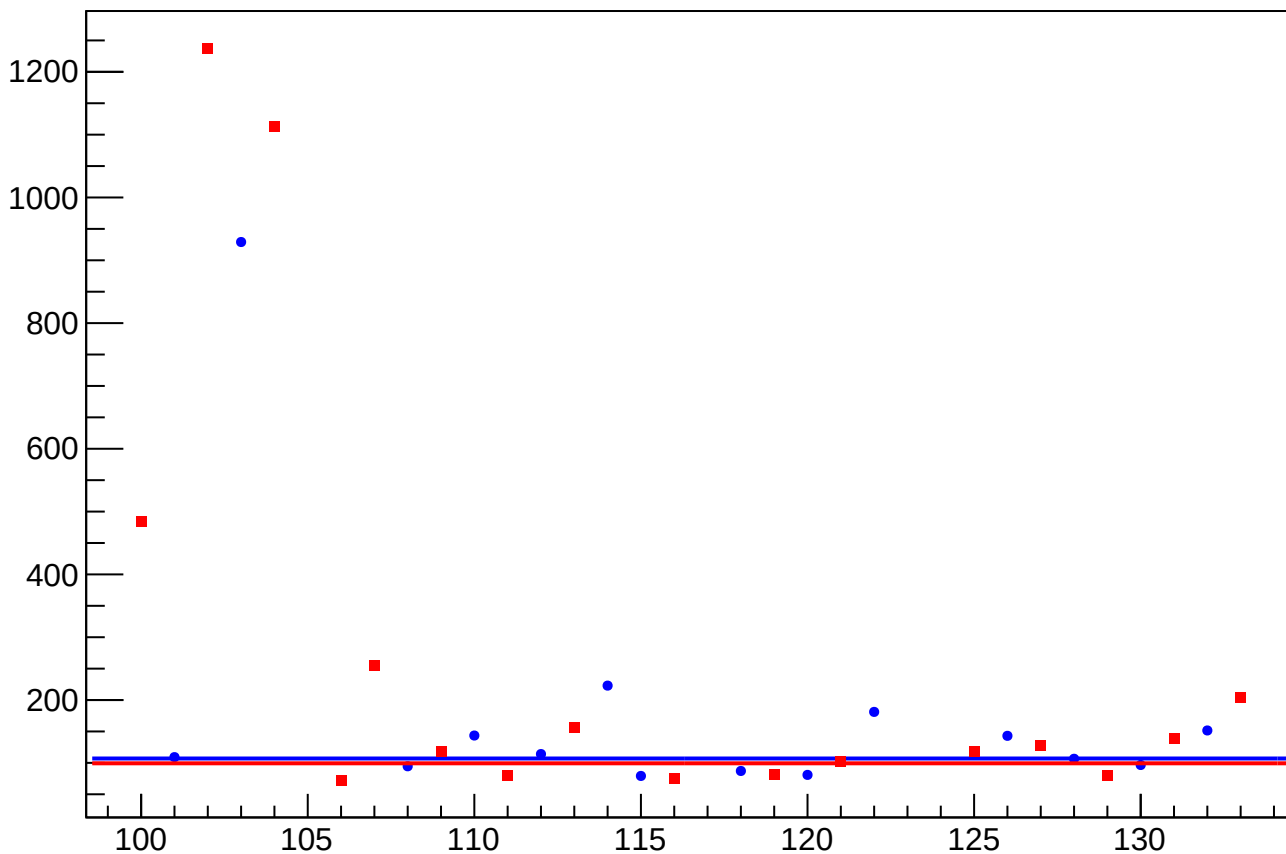
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.024 \pm 0.035$   $\chi^2/\text{NDF}$ : 31.8/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 106.938+/-0.036  $\chi^2/\text{NDF}$ : 1431386.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 99.297+/-0.034  $\chi^2/\text{NDF}$ : 2539409.4/15

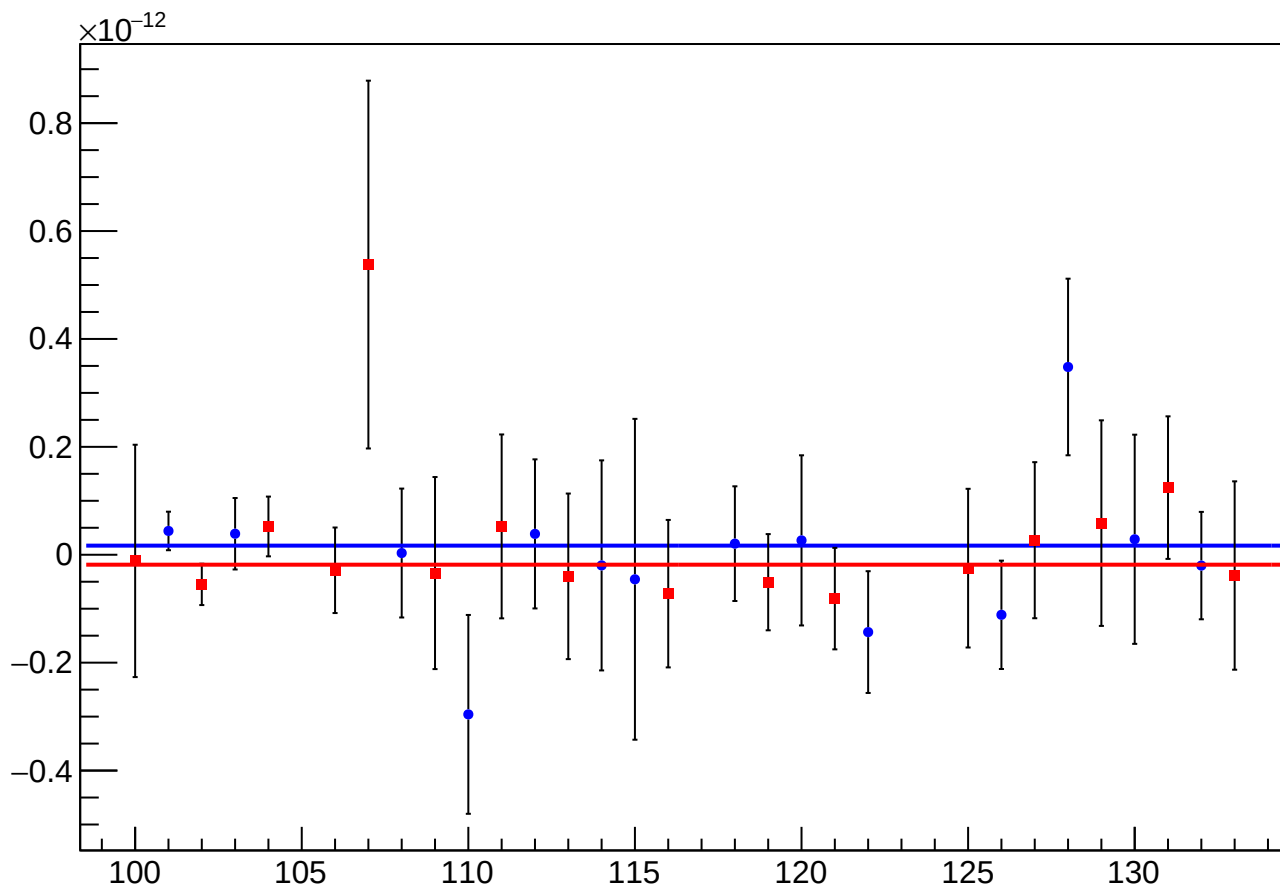
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 102.880+/-0.025  $\chi^2/\text{NDF}$ : 3994999.2/29

- 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  $\chi^2/\text{NDF}$ : 11.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.6/15

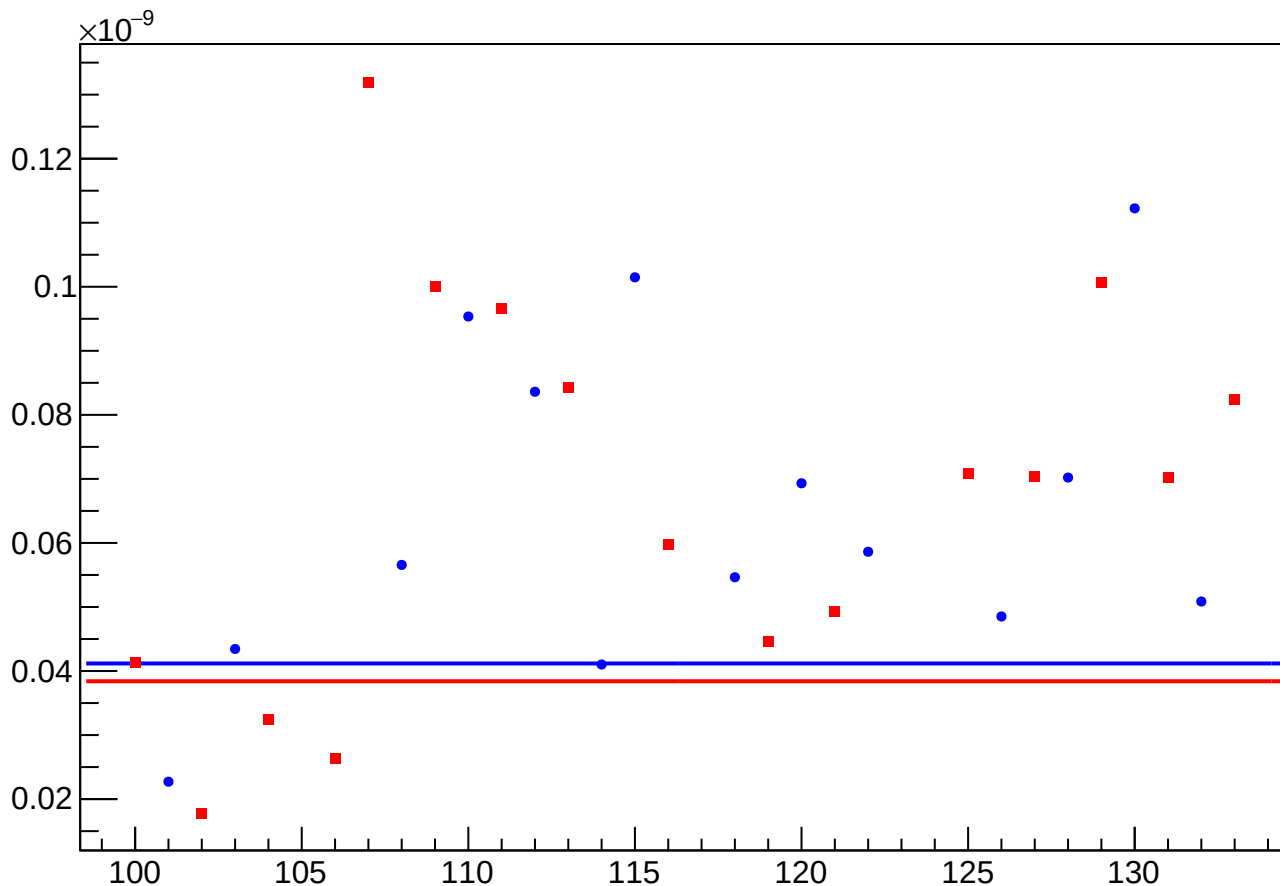
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.3/29

- 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  $\chi^2/\text{NDF}$ : 1517854.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2190707.7/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

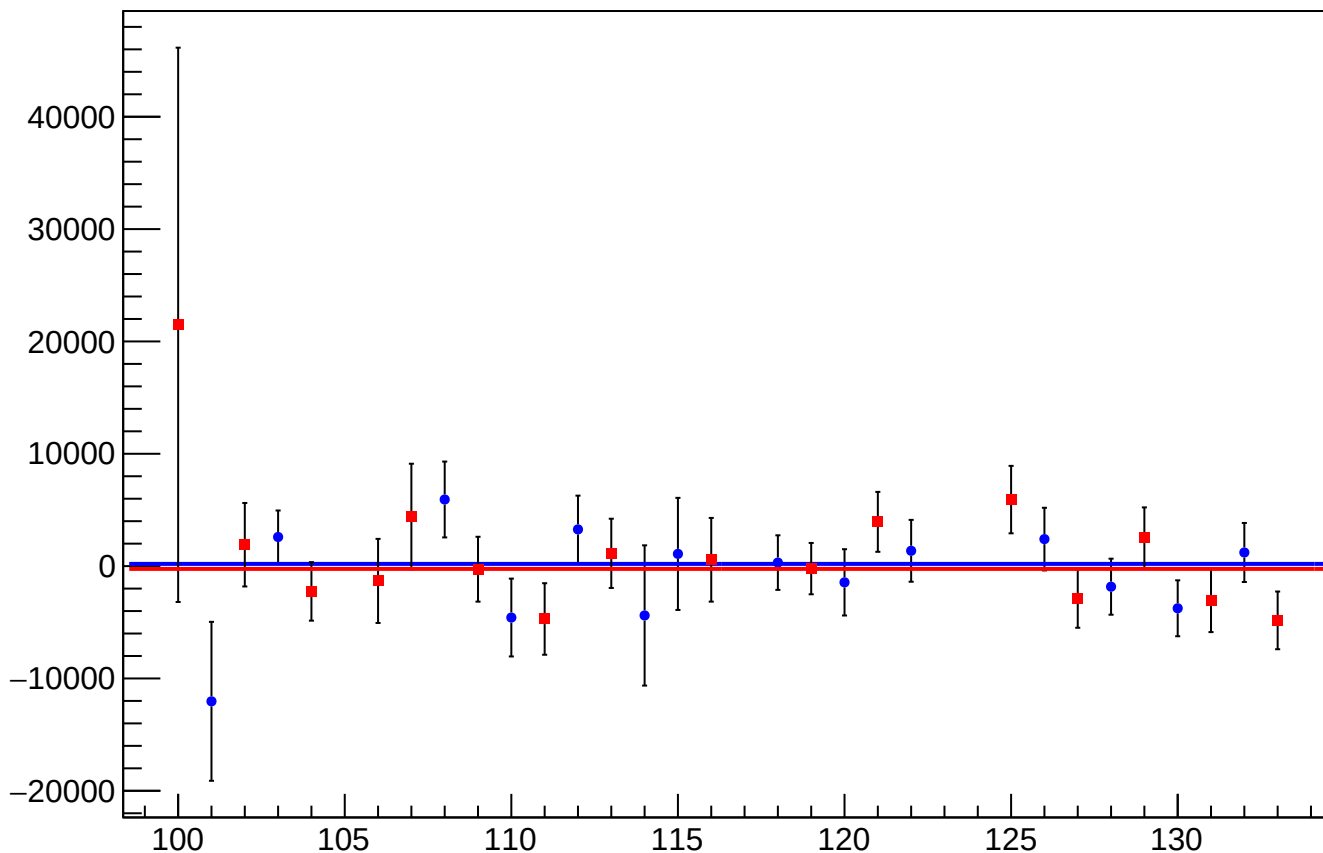
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3721980.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 198.417+/-800.844  $\chi^2/\text{NDF}$ : 14.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -247.250+/-758.263  $\chi^2/\text{NDF}$ : 17.9/15

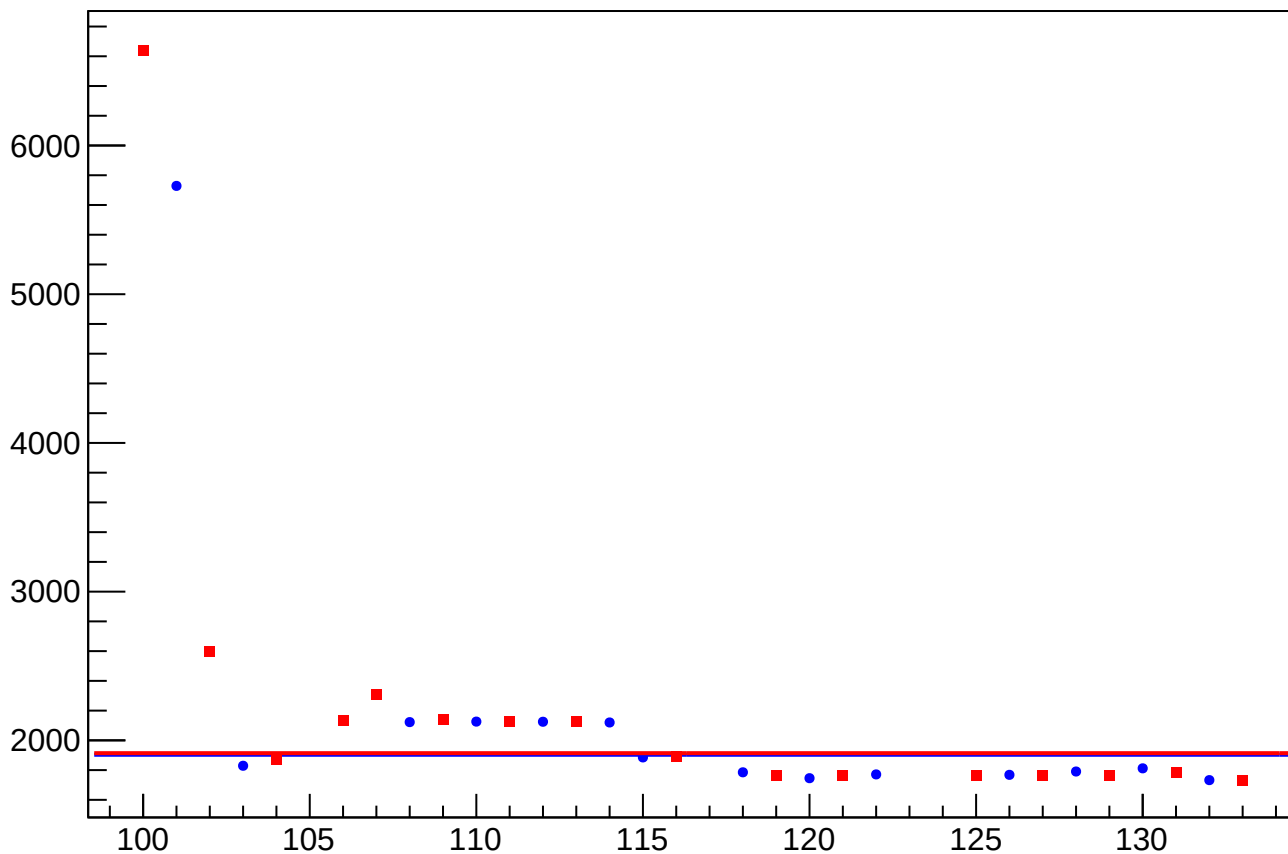
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -36.579+/-550.611  $\chi^2/\text{NDF}$ : 33.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 1903.159+/-0.566  $\chi^2/\text{NDF}$ : 651759.7/13

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

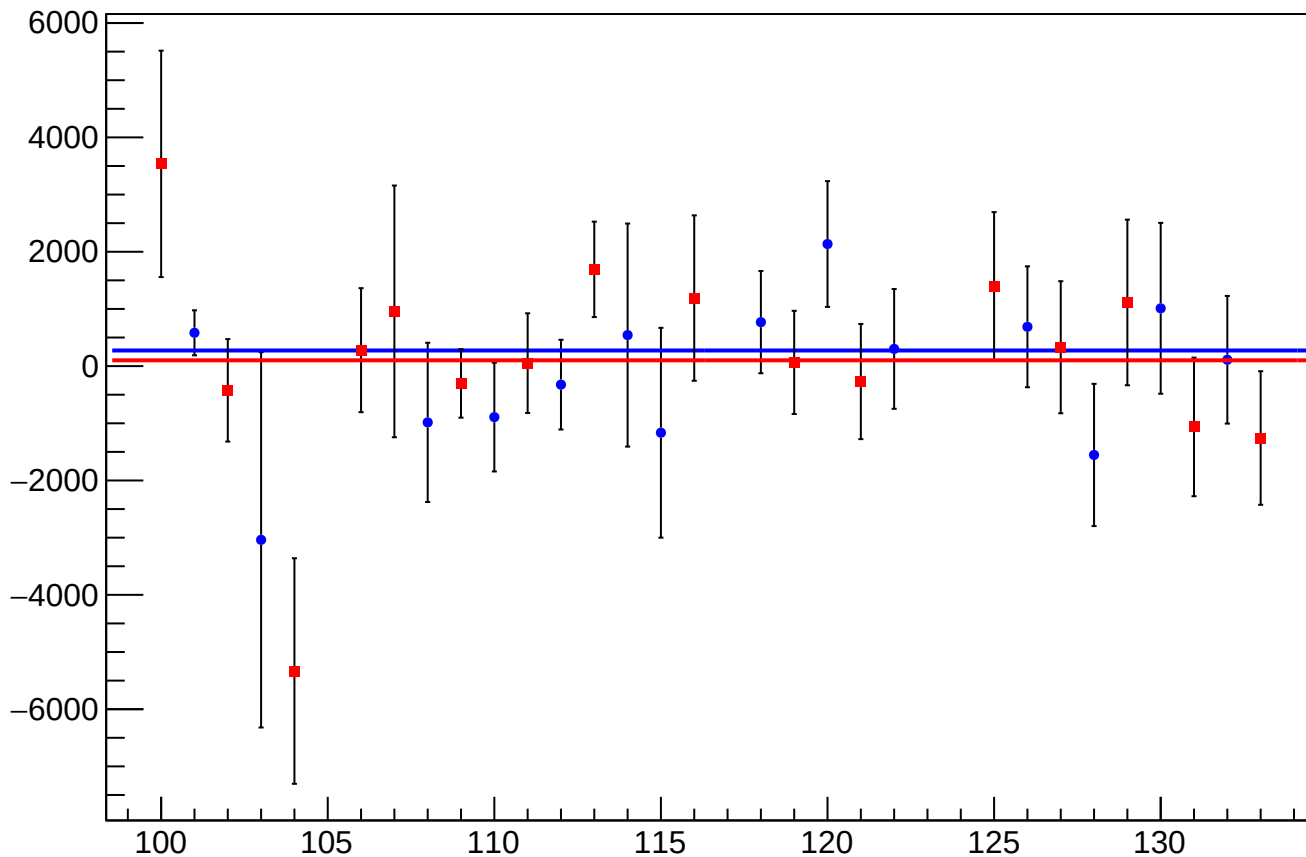
Right Out: 1913.883+/-0.536  $\chi^2/\text{NDF}$ : 240412.7/15

All: 1908.814+/-0.389  $\chi^2/\text{NDF}$ : 892361.5/29

- 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: 273.432 $\pm$ 248.904  $\chi^2$ /NDF: 10.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 101.320 $\pm$ 264.616  $\chi^2$ /NDF: 19.7/15

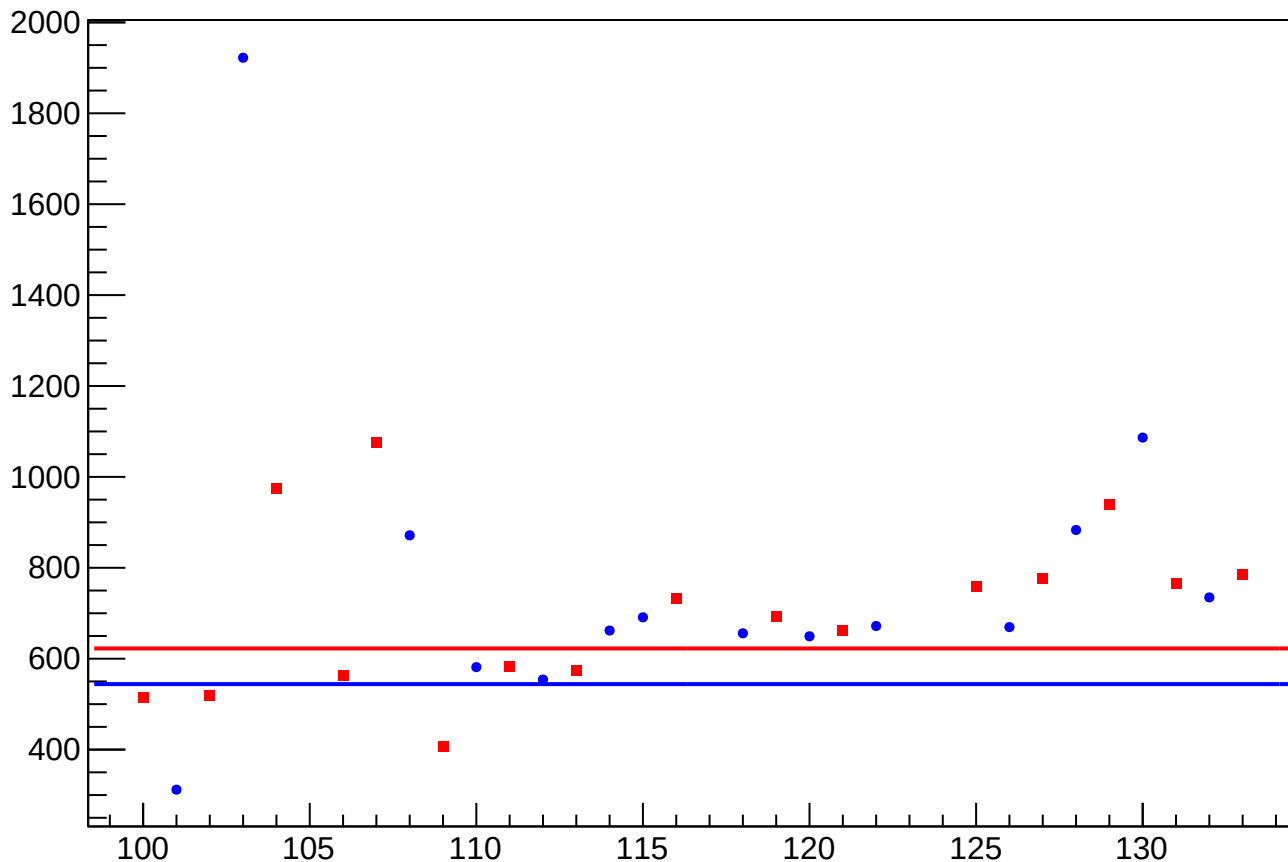
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 192.637 $\pm$ 181.302  $\chi^2$ /NDF: 30.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_reg\_correction\_rms vs Slug



Right In: 544.089+/-0.176  $\chi^2/\text{NDF}$ : 1761672.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 622.556+/-0.187  $\chi^2/\text{NDF}$ : 703137.5/15

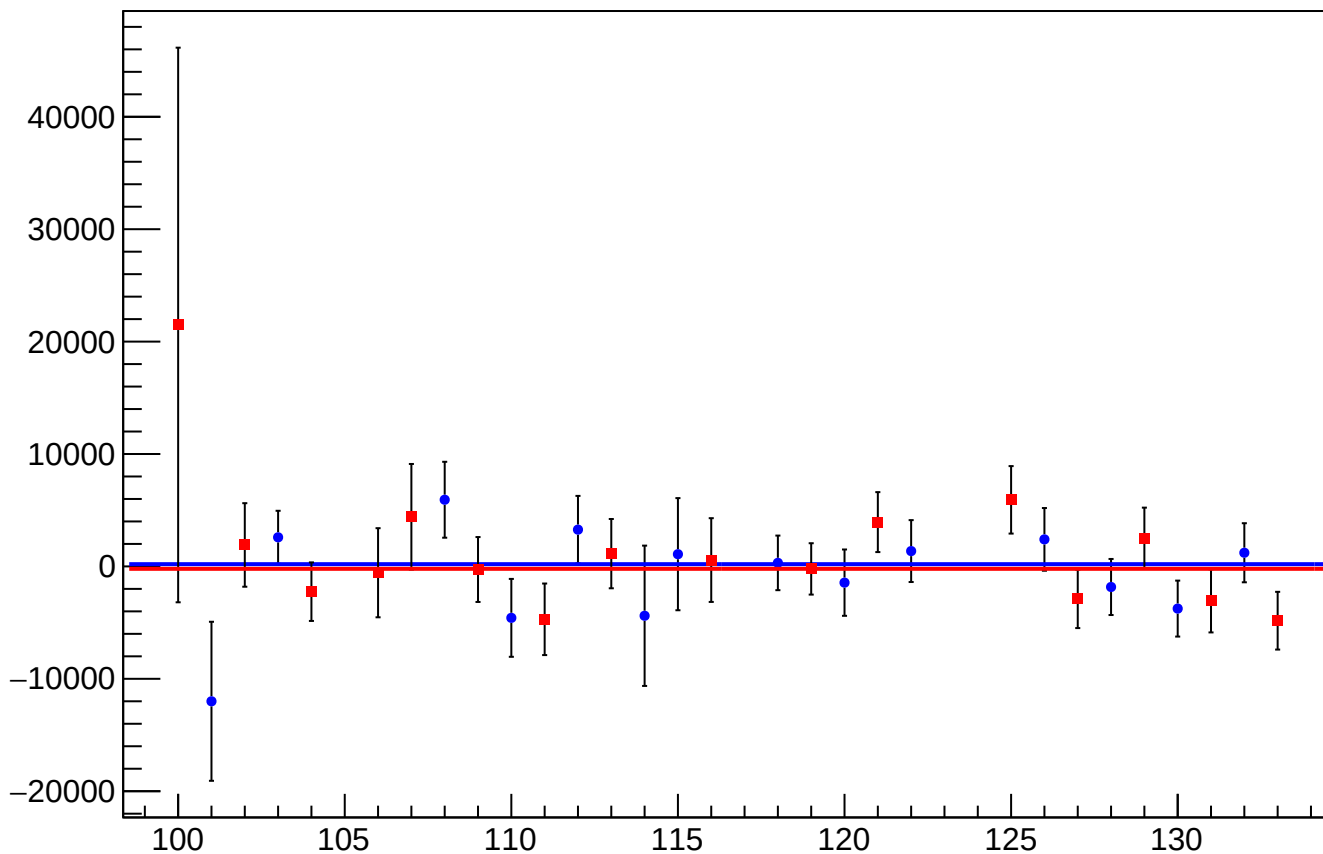
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 580.924+/-0.128  $\chi^2/\text{NDF}$ : 2558115.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 198.666 $\pm$ 800.844  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -214.466 $\pm$ 759.964  $\chi^2$ /NDF: 17.8/15

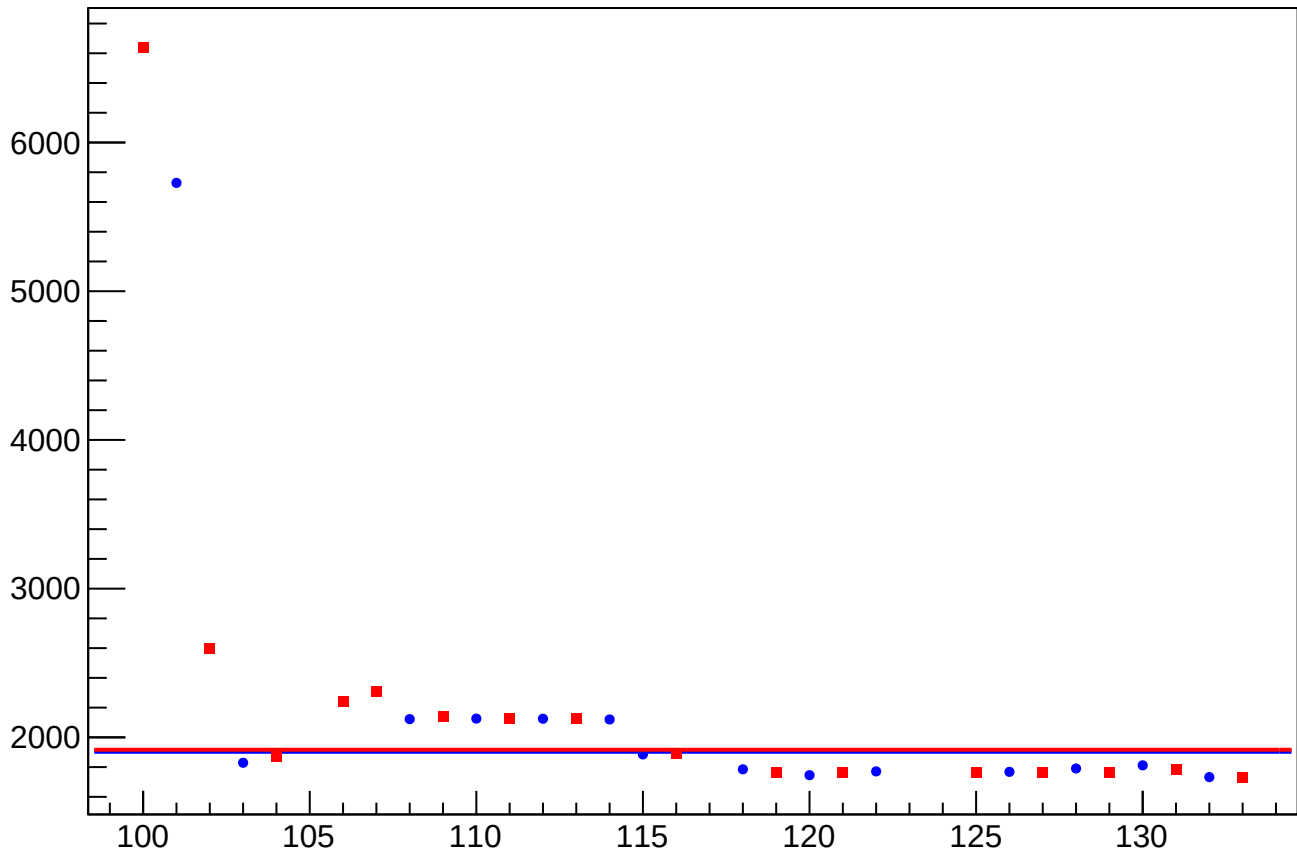
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -18.713 $\pm$ 551.261  $\chi^2$ /NDF: 32.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 1903.159+/-0.566  $\chi^2/\text{NDF}$ : 651759.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1916.745+/-0.537  $\chi^2/\text{NDF}$ : 246972.4/15

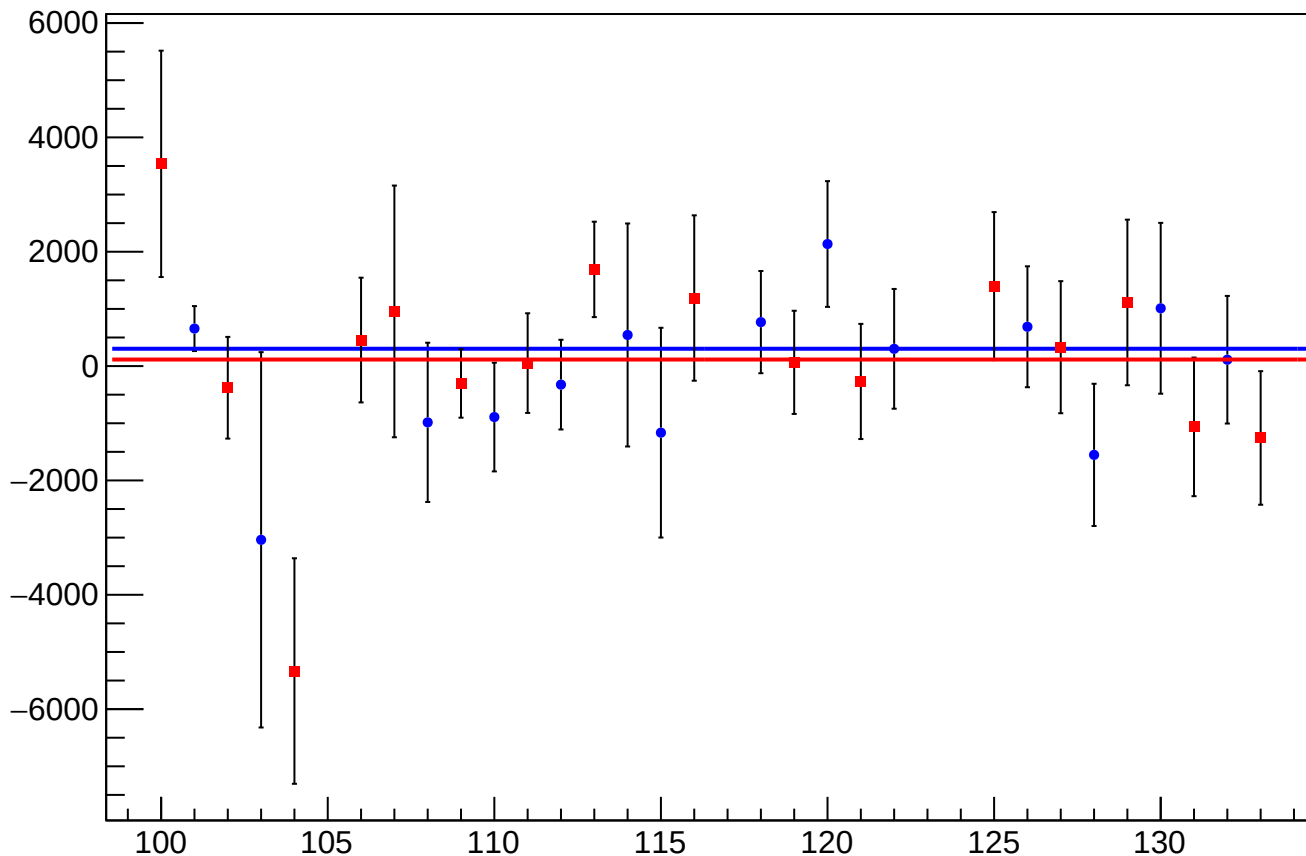
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1910.308+/-0.390  $\chi^2/\text{NDF}$ : 899035.0/29

- 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: 303.232 $\pm$ 248.792  $\chi^2$ /NDF: 11.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 114.724 $\pm$ 264.537  $\chi^2$ /NDF: 19.8/15

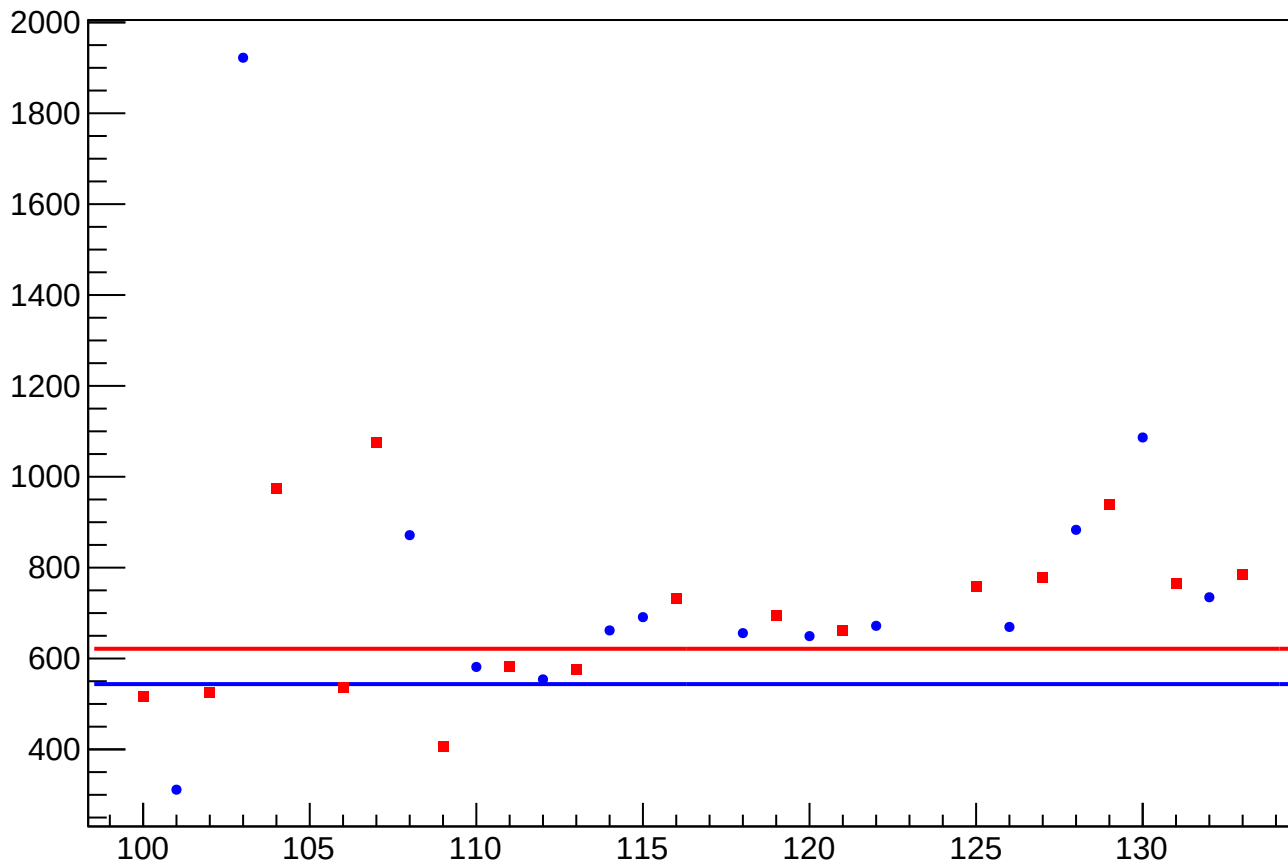
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 214.755 $\pm$ 181.233  $\chi^2$ /NDF: 31.3/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_cor\_correction\_rms vs Slug



Right In: 543.679+/-0.176  $\chi^2/\text{NDF}$ : 1766140.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 621.472+/-0.187  $\chi^2/\text{NDF}$ : 706508.8/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

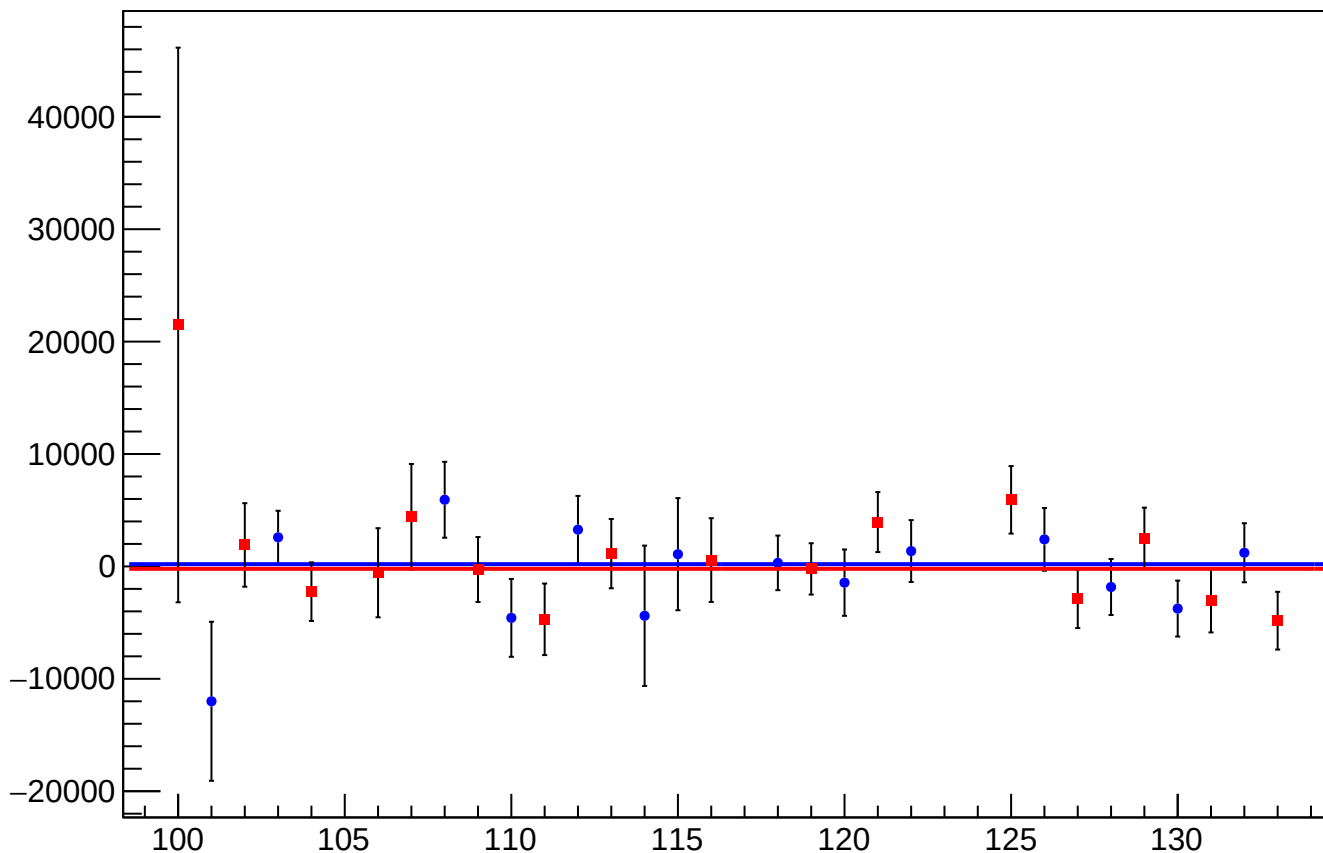
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 580.191+/-0.128  $\chi^2/\text{NDF}$ : 2564426.2/29

- 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: 198.666 $\pm$ 800.844  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -214.466 $\pm$ 759.964  $\chi^2$ /NDF: 17.8/15

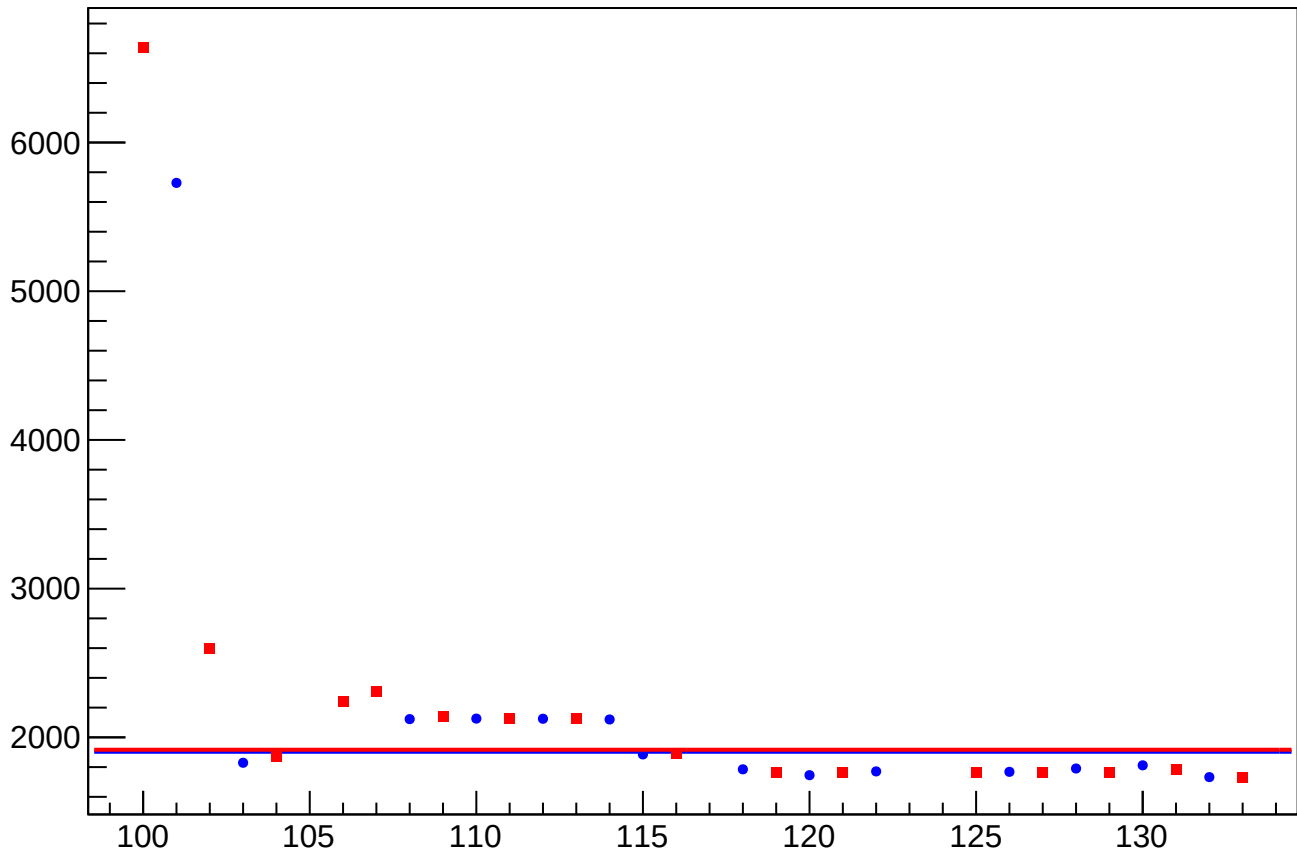
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -18.713 $\pm$ 551.261  $\chi^2$ /NDF: 32.8/29

- 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: 1903.159+/-0.566  $\chi^2/\text{NDF}$ : 651759.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1916.745+/-0.537  $\chi^2/\text{NDF}$ : 246972.4/15

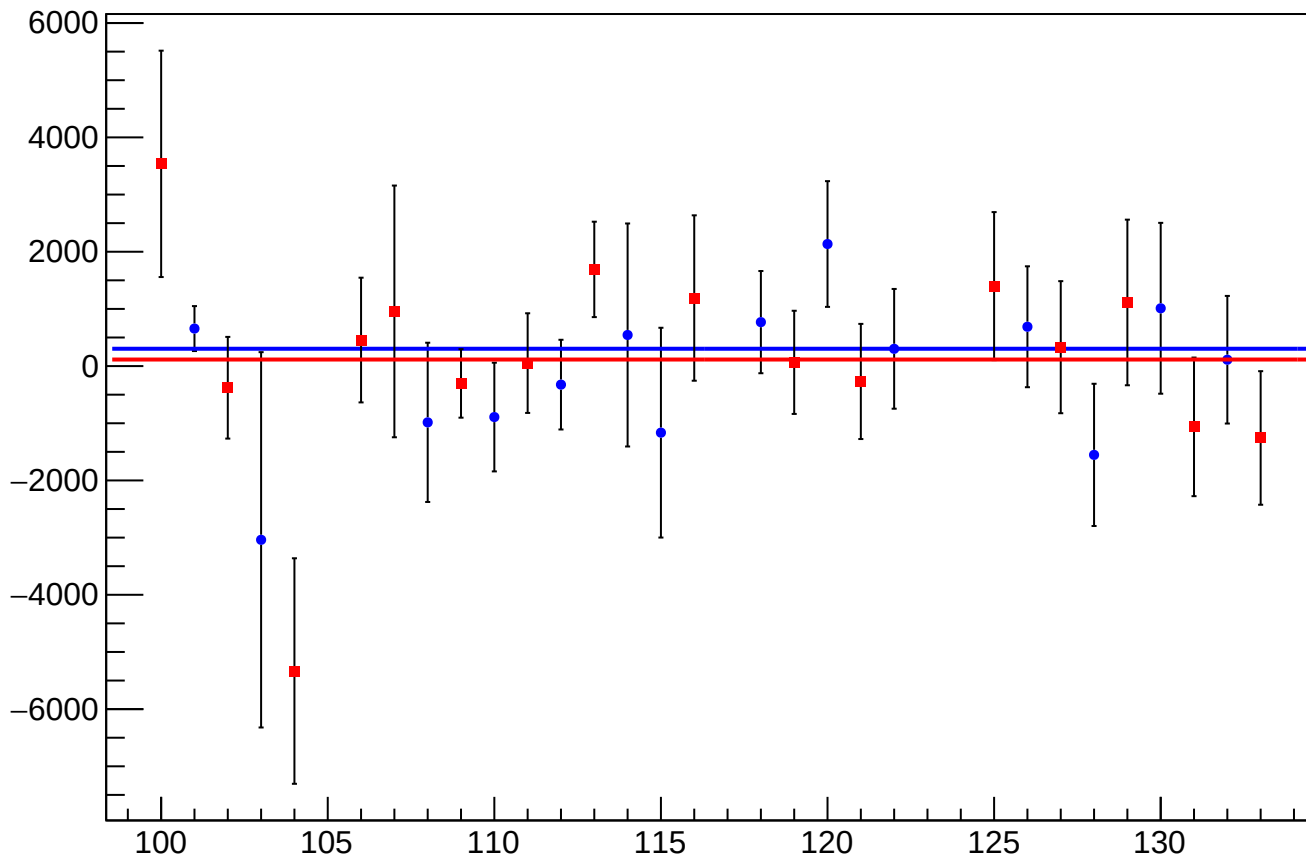
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1910.308+/-0.390  $\chi^2/\text{NDF}$ : 899035.0/29

- 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: 303.232 $\pm$ 248.792  $\chi^2$ /NDF: 11.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 114.724 $\pm$ 264.537  $\chi^2$ /NDF: 19.8/15

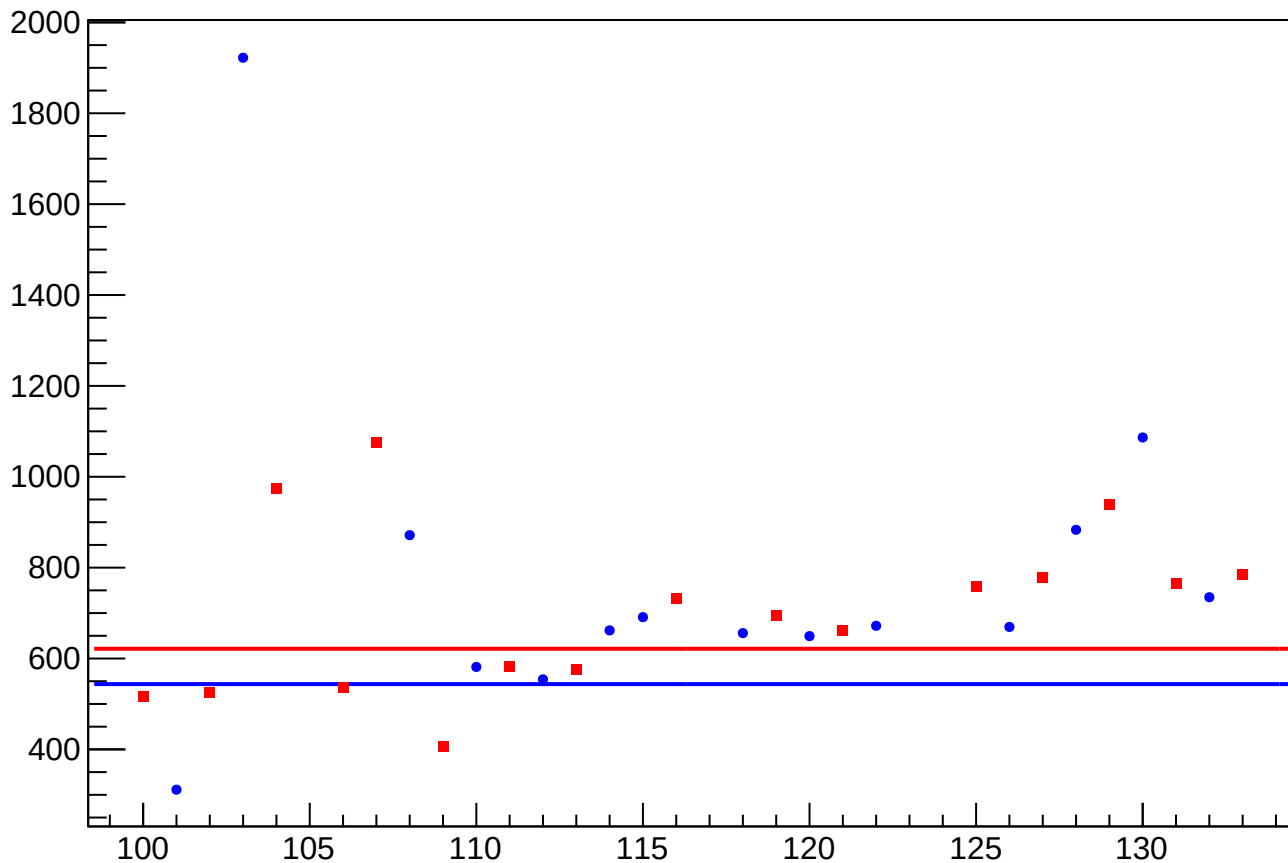
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 214.755 $\pm$ 181.233  $\chi^2$ /NDF: 31.3/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 543.679+/-0.176  $\chi^2/\text{NDF}$ : 1766140.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 621.472+/-0.187  $\chi^2/\text{NDF}$ : 706508.8/15

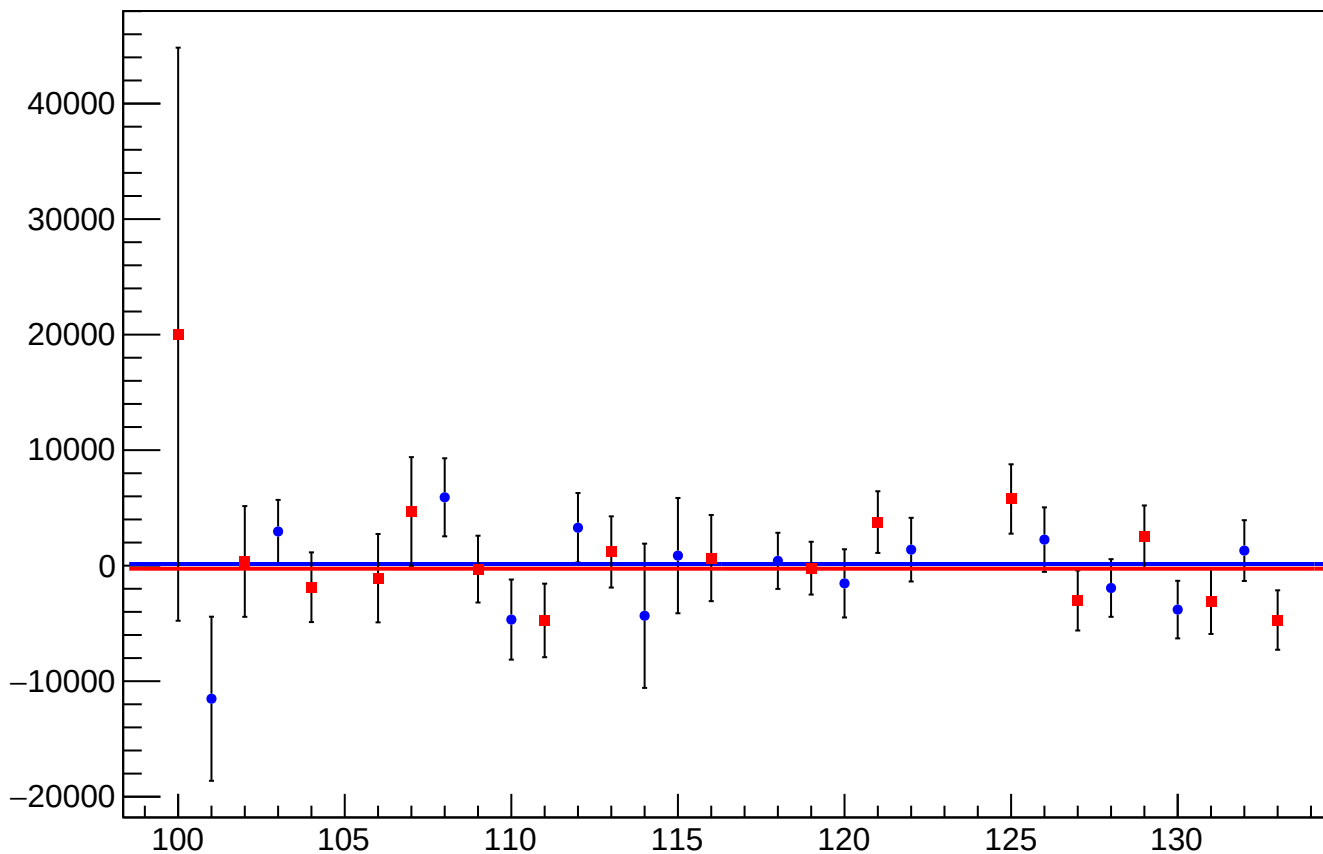
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 580.191+/-0.128  $\chi^2/\text{NDF}$ : 2564426.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 144.289+/-813.458  $\chi^2/\text{NDF}$ : 14.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -260.967+/-774.480  $\chi^2/\text{NDF}$ : 16.9/15

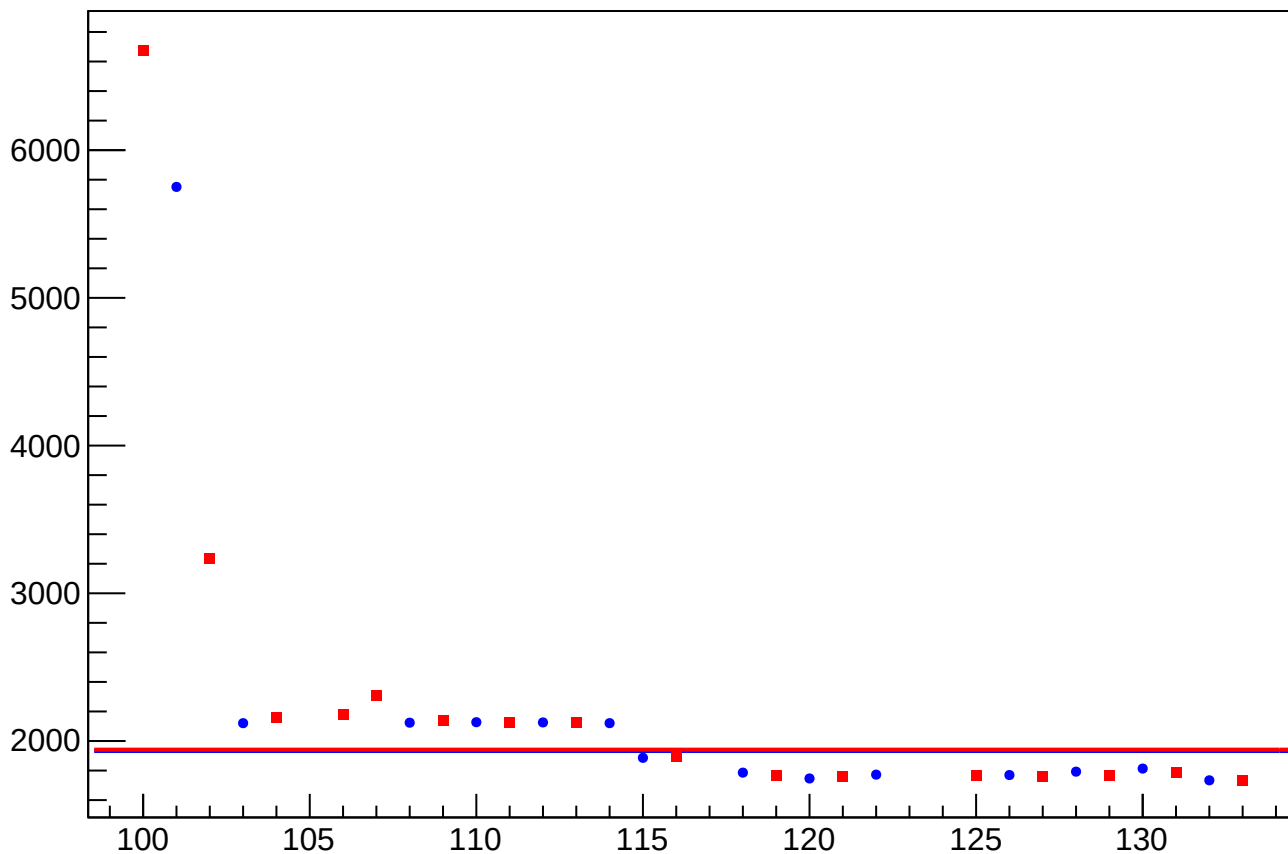
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -68.281+/-560.914  $\chi^2/\text{NDF}$ : 31.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 1932.304 $\pm$ 0.575  $\chi^2$ /NDF: 661593.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1941.629 $\pm$ 0.548  $\chi^2$ /NDF: 338640.9/15

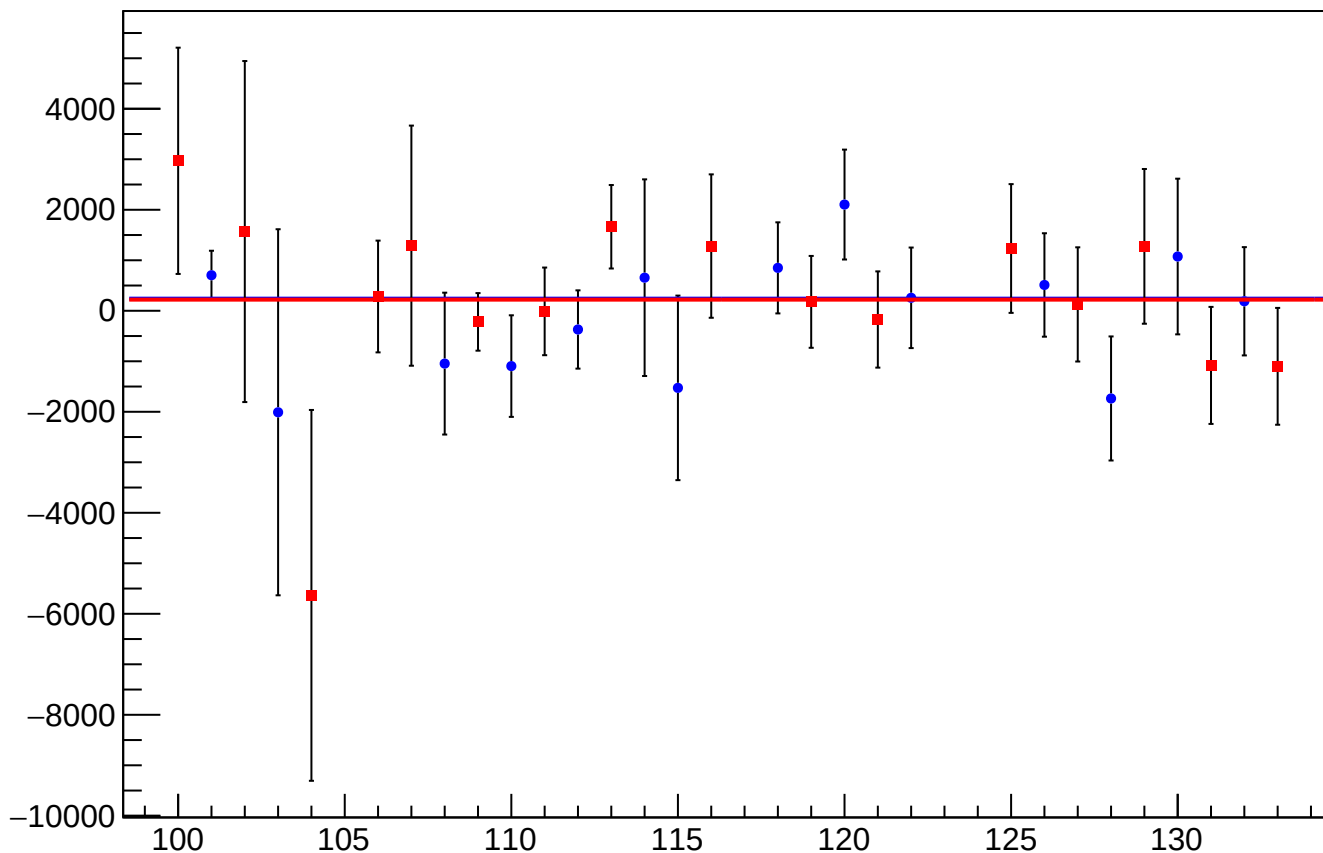
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1937.195 $\pm$ 0.397  $\chi^2$ /NDF: 1000372.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_correction\_mean vs Slug



Right In: 239.811 $\pm$ 266.733  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 220.646 $\pm$ 273.721  $\chi^2$ /NDF: 12.5/15

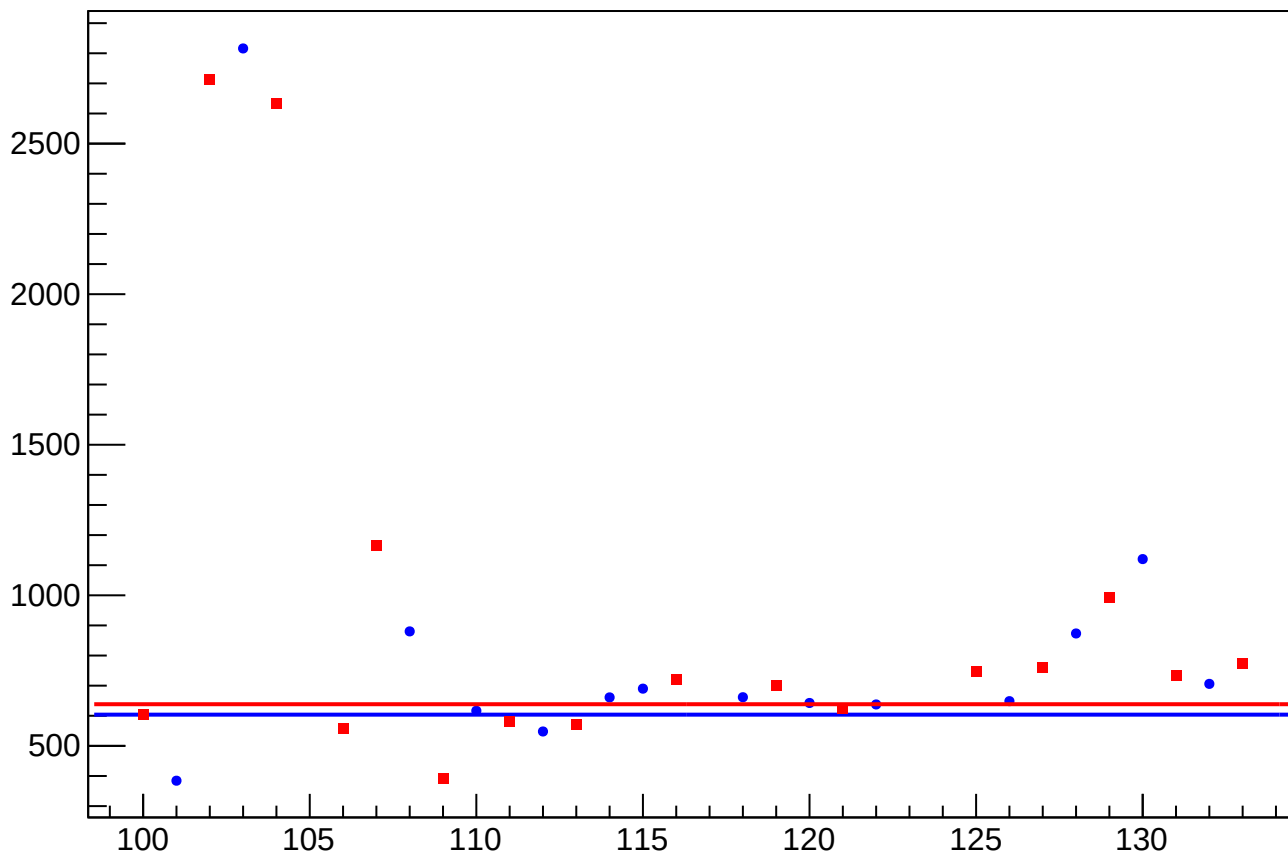
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 230.476 $\pm$ 191.031  $\chi^2$ /NDF: 24.4/29

- 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: 603.703+/-0.189  $\chi^2/\text{NDF}$ : 1606089.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 638.345+/-0.194  $\chi^2/\text{NDF}$ : 2057276.5/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

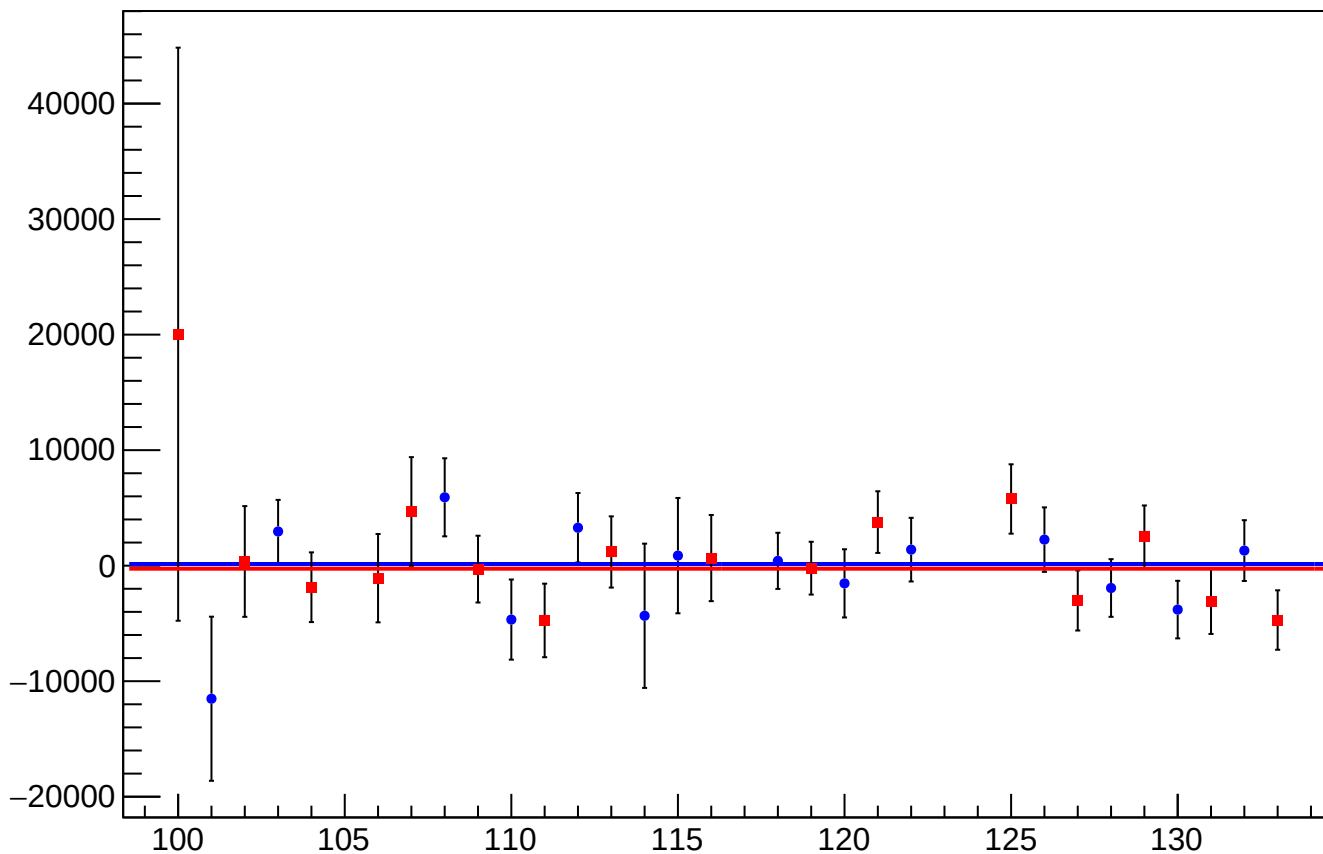
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 620.576+/-0.135  $\chi^2/\text{NDF}$ : 3679797.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 144.291+/-813.458  $\chi^2/\text{NDF}$ : 14.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -260.968+/-774.480  $\chi^2/\text{NDF}$ : 16.9/15

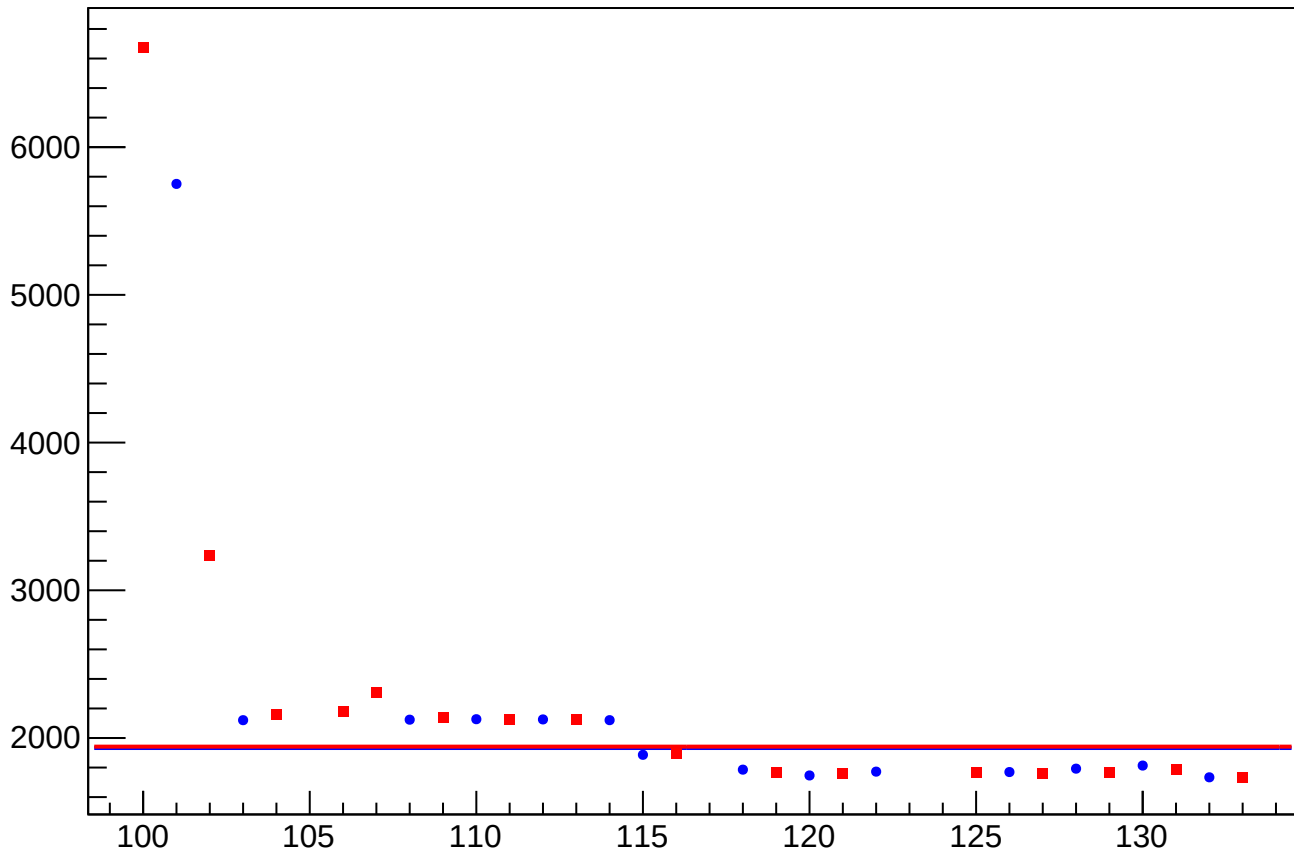
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -68.280+/-560.914  $\chi^2/\text{NDF}$ : 31.7/29

- 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: 1932.304+/-0.575  $\chi^2/\text{NDF}$ : 661593.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1941.629+/-0.548  $\chi^2/\text{NDF}$ : 338640.2/15

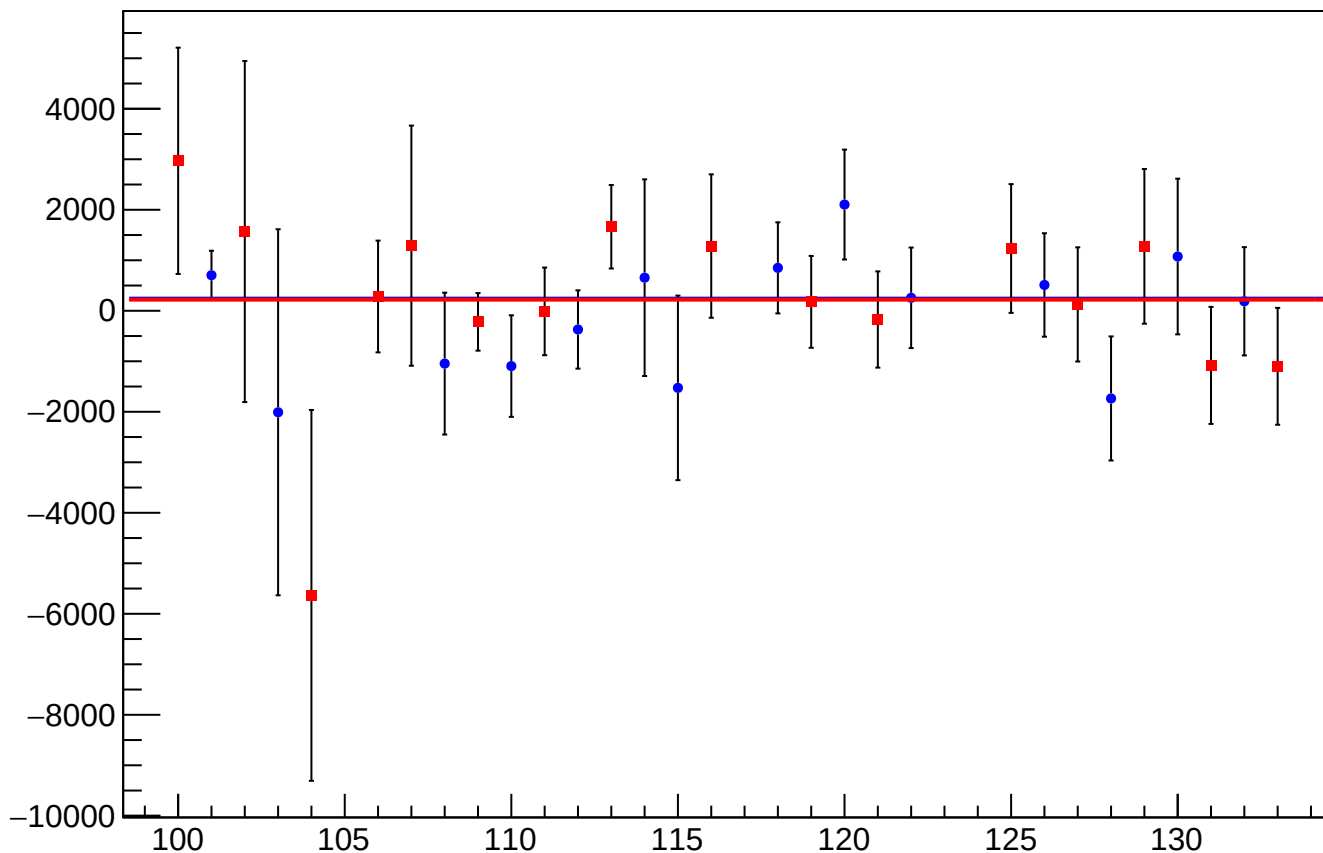
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1937.195+/-0.397  $\chi^2/\text{NDF}$ : 1000371.7/29

- 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: 239.809 $\pm$ 266.732  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 220.643 $\pm$ 273.720  $\chi^2$ /NDF: 12.5/15

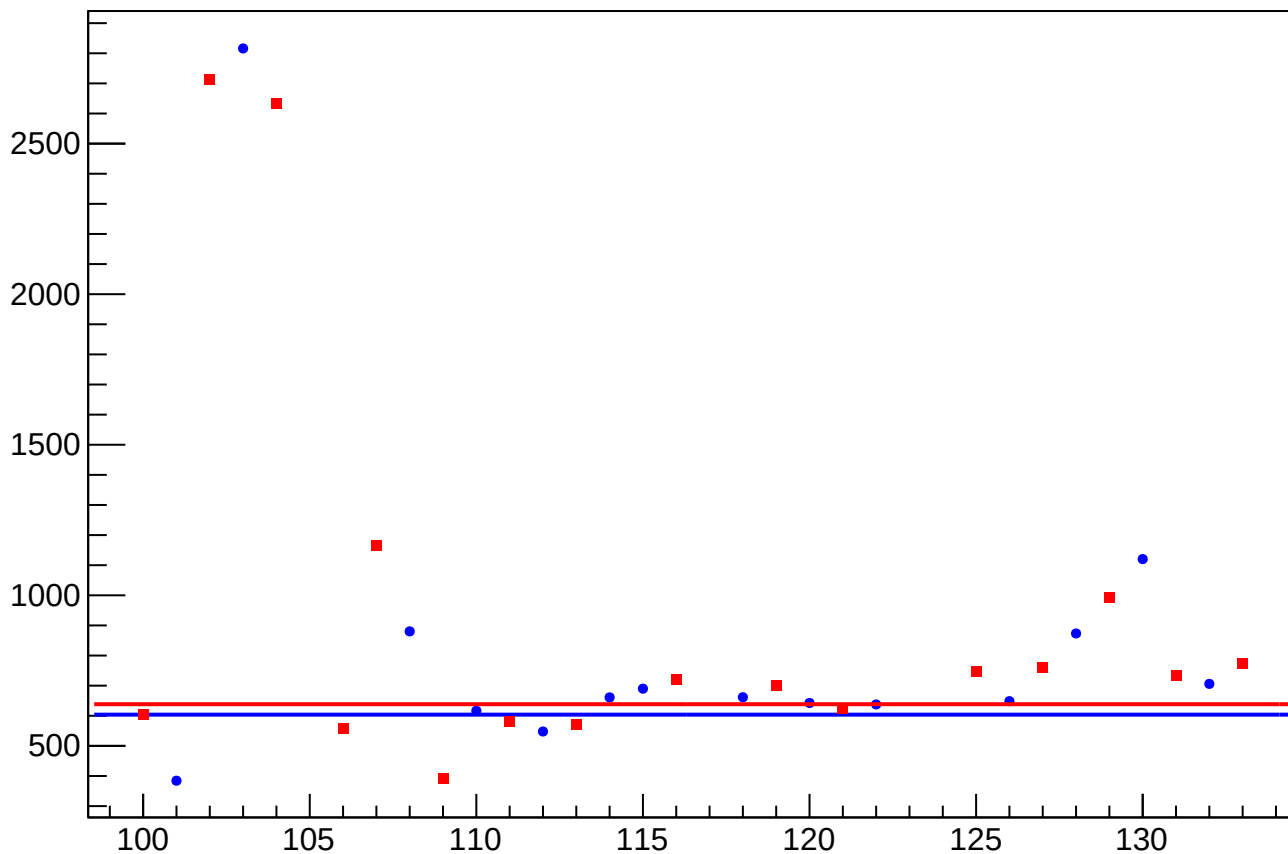
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 230.474 $\pm$ 191.031  $\chi^2$ /NDF: 24.4/29

- 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: 603.701+/-0.189  $\chi^2/\text{NDF}$ : 1606076.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 638.341+/-0.194  $\chi^2/\text{NDF}$ : 2057294.7/15

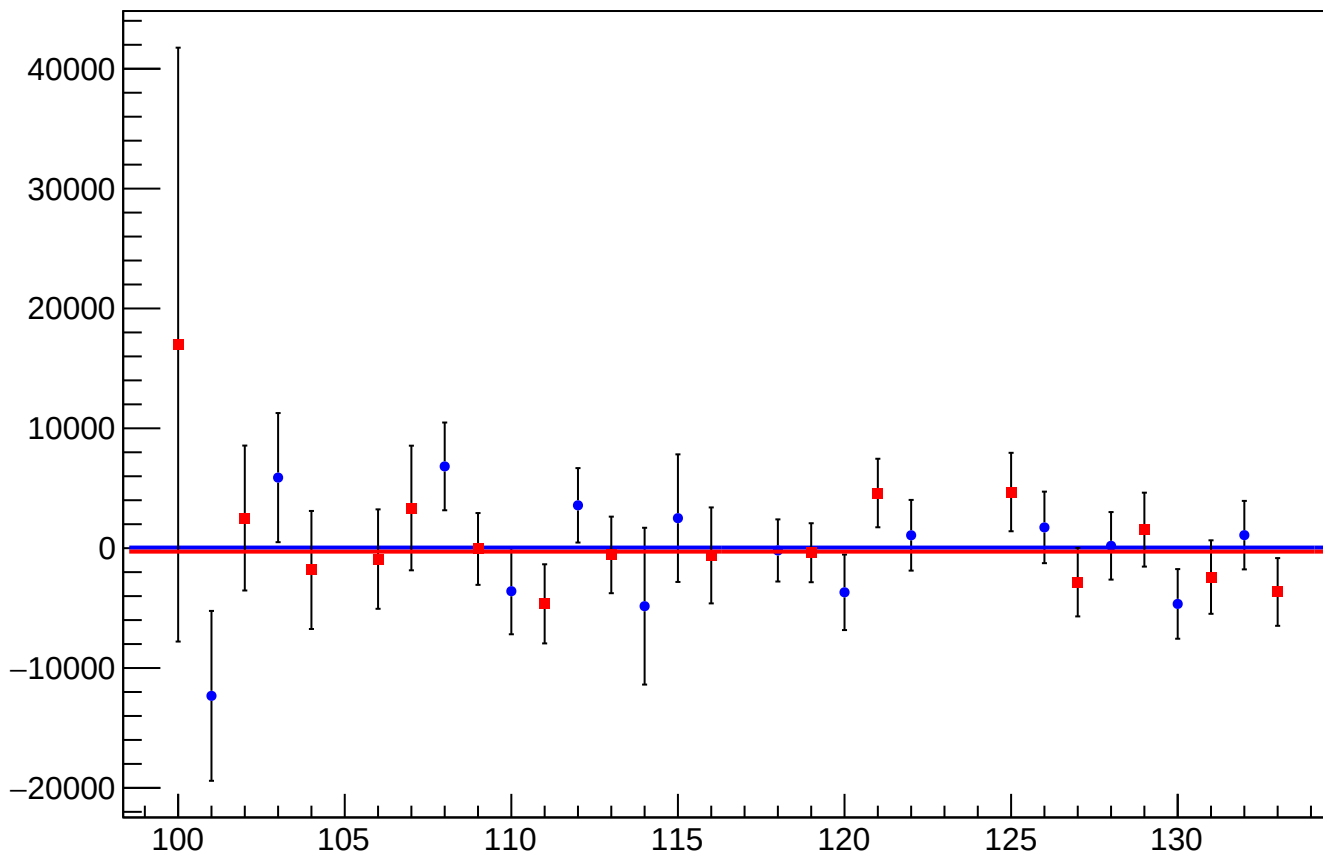
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 620.573+/-0.135  $\chi^2/\text{NDF}$ : 3679801.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug



Right In: 50.506+/-908.262  $\chi^2/\text{NDF}$ : 15.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -288.467+/-854.638  $\chi^2/\text{NDF}$ : 11.4/15

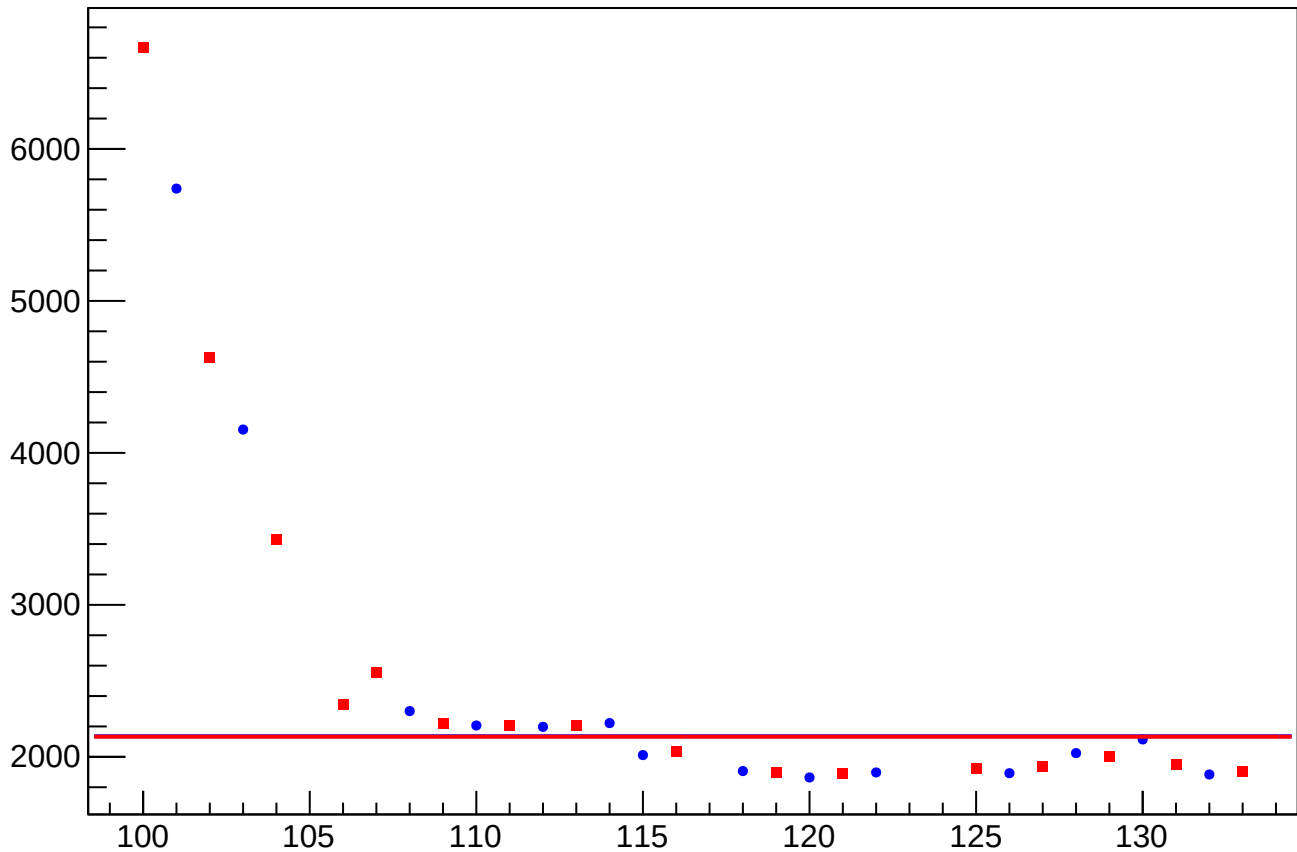
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -129.282+/-622.415  $\chi^2/\text{NDF}$ : 26.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug



Right In: 2135.347+/-0.642  $\chi^2/\text{NDF}$ : 880287.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2132.688+/-0.604  $\chi^2/\text{NDF}$ : 643896.9/15

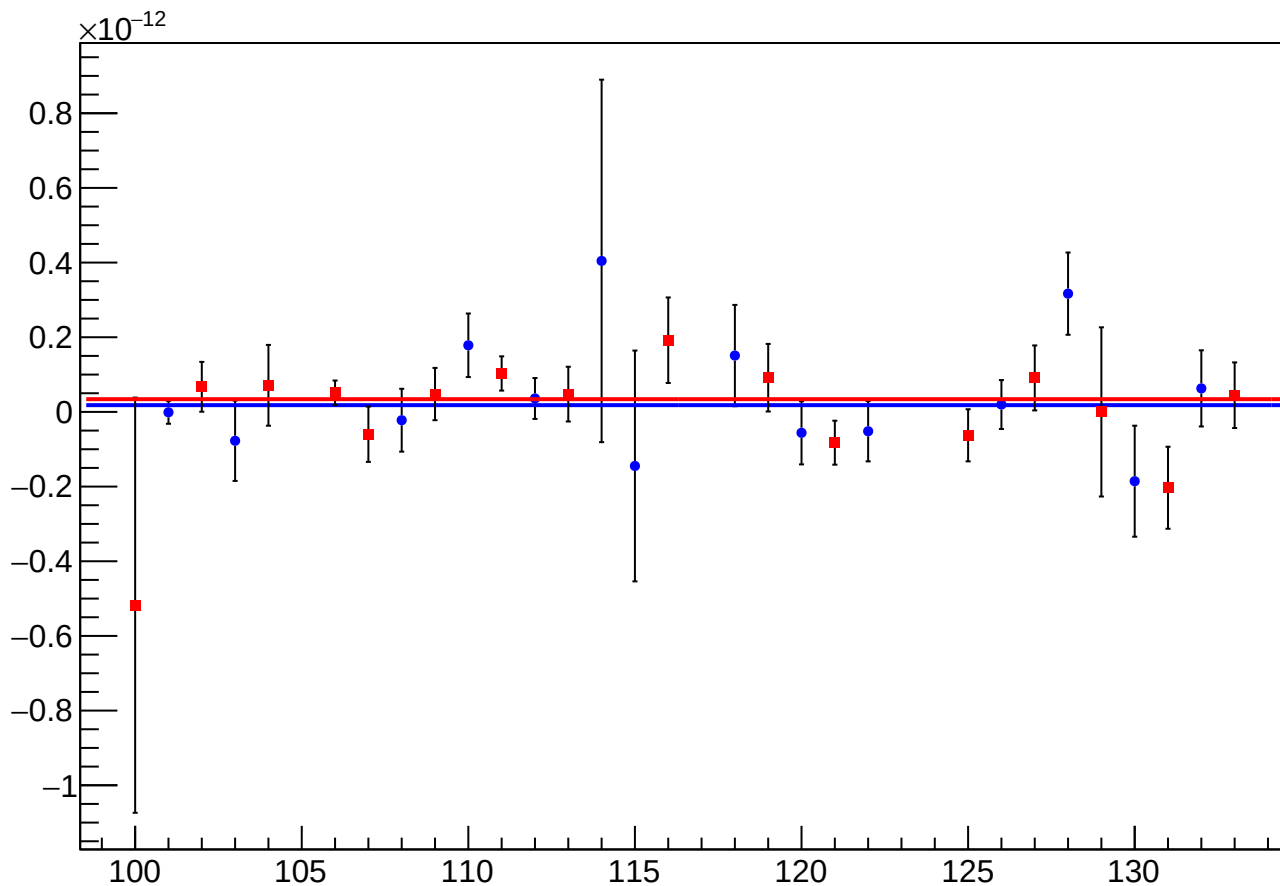
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2133.936+/-0.440  $\chi^2/\text{NDF}$ : 1524193.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.8/15

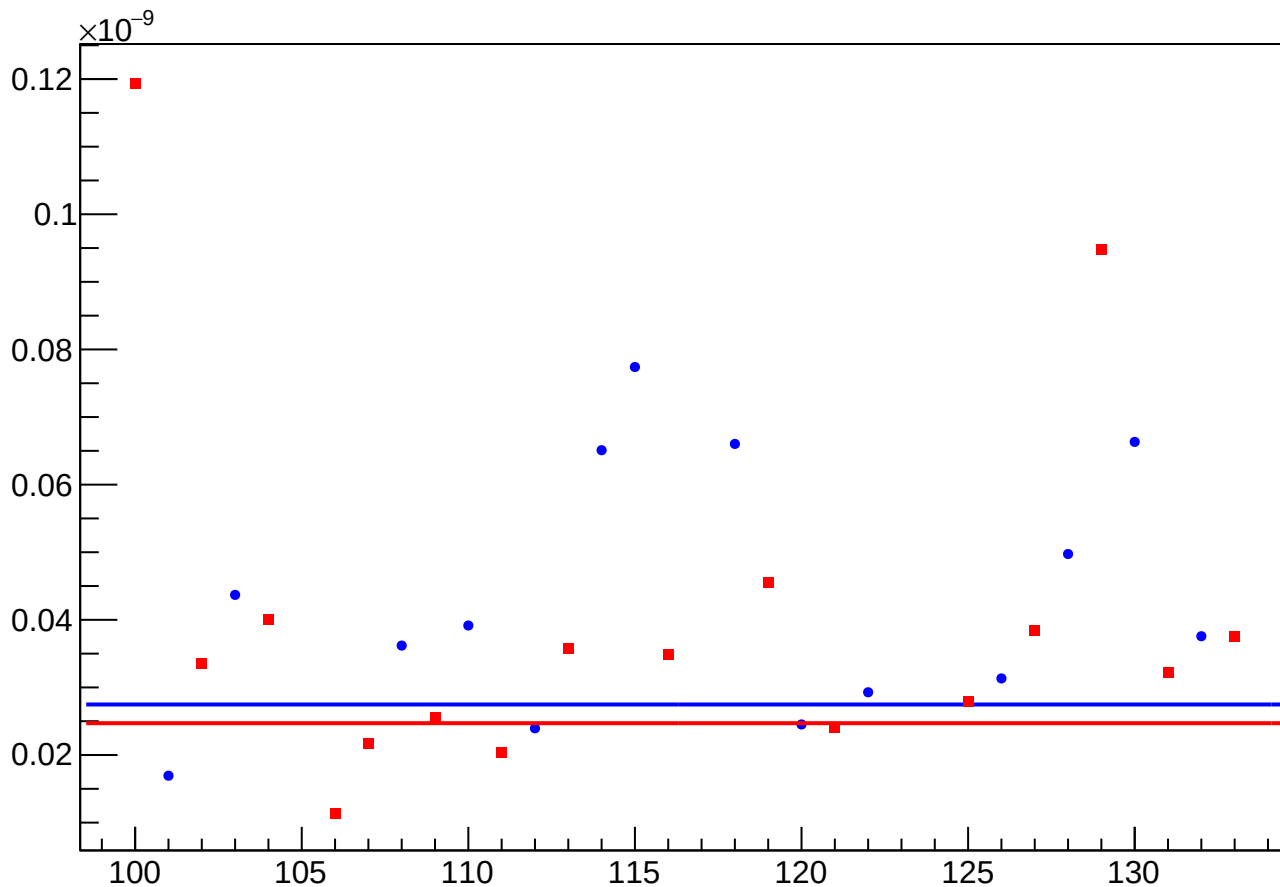
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 37.1/29

- 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  $\chi^2/\text{NDF}$ : 821968.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 952146.7/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

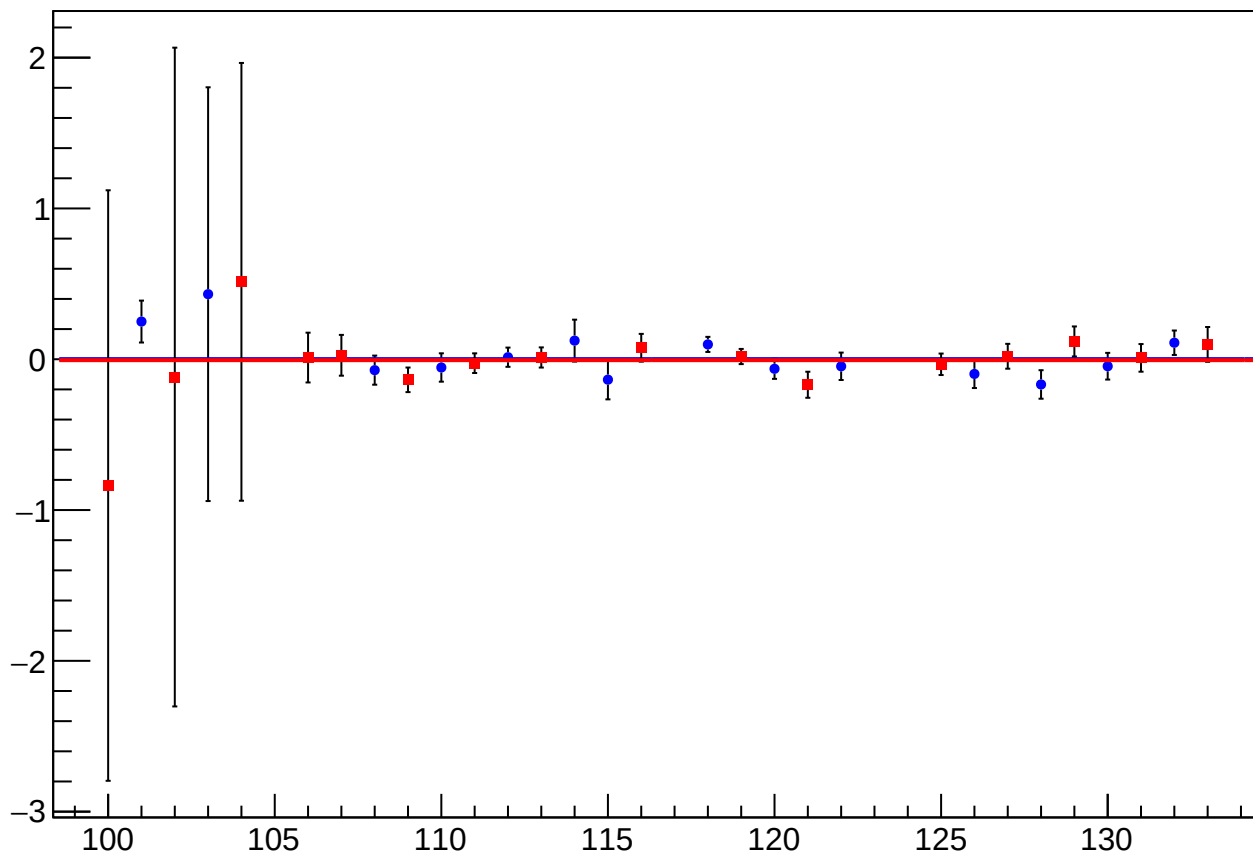
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1796398.5/29

- 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: 0.001 $\pm$ 0.023  $\chi^2$ /NDF: 17.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.006 $\pm$ 0.022  $\chi^2$ /NDF: 10.3/15

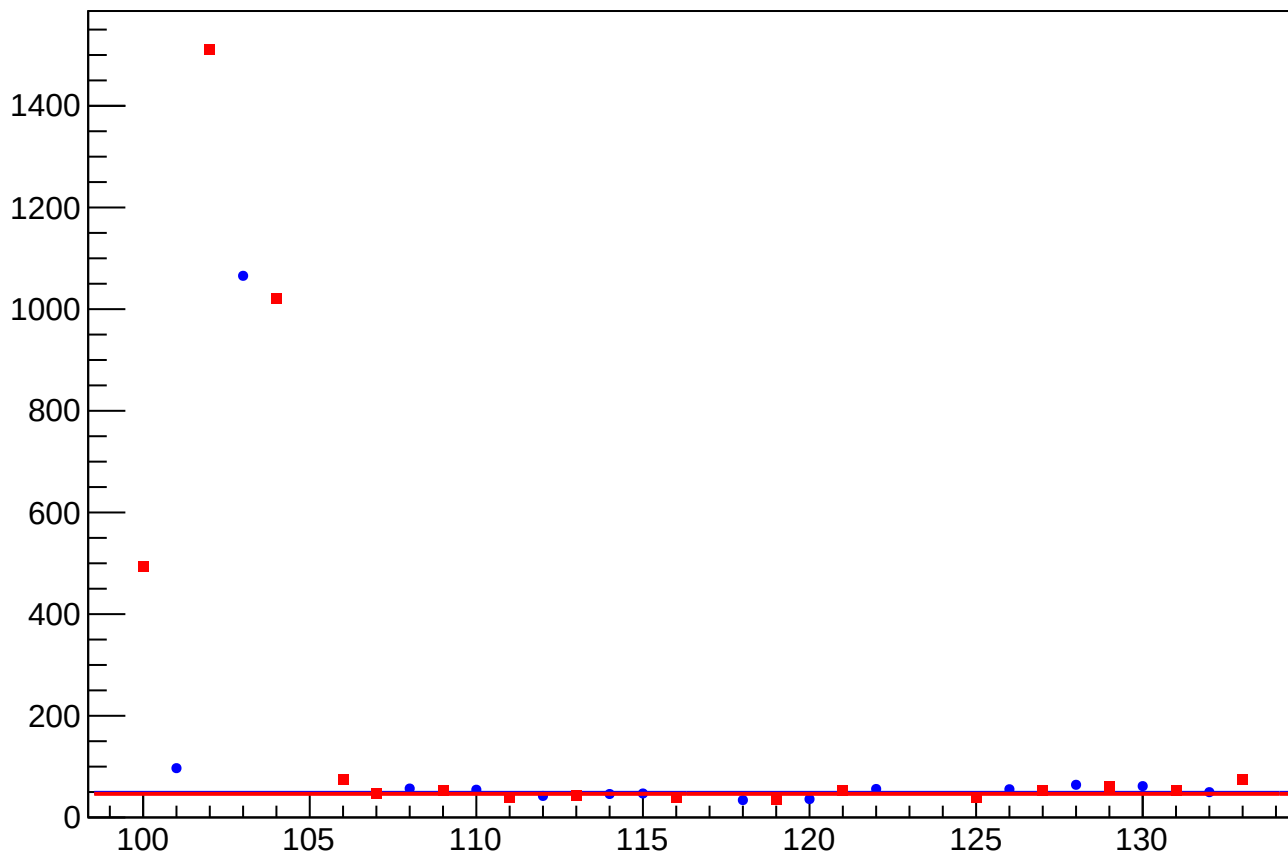
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.016  $\chi^2$ /NDF: 27.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 48.396+/-0.016  $\chi^2/\text{NDF}$ : 1741868.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.481+/-0.016  $\chi^2/\text{NDF}$ : 2326315.9/15

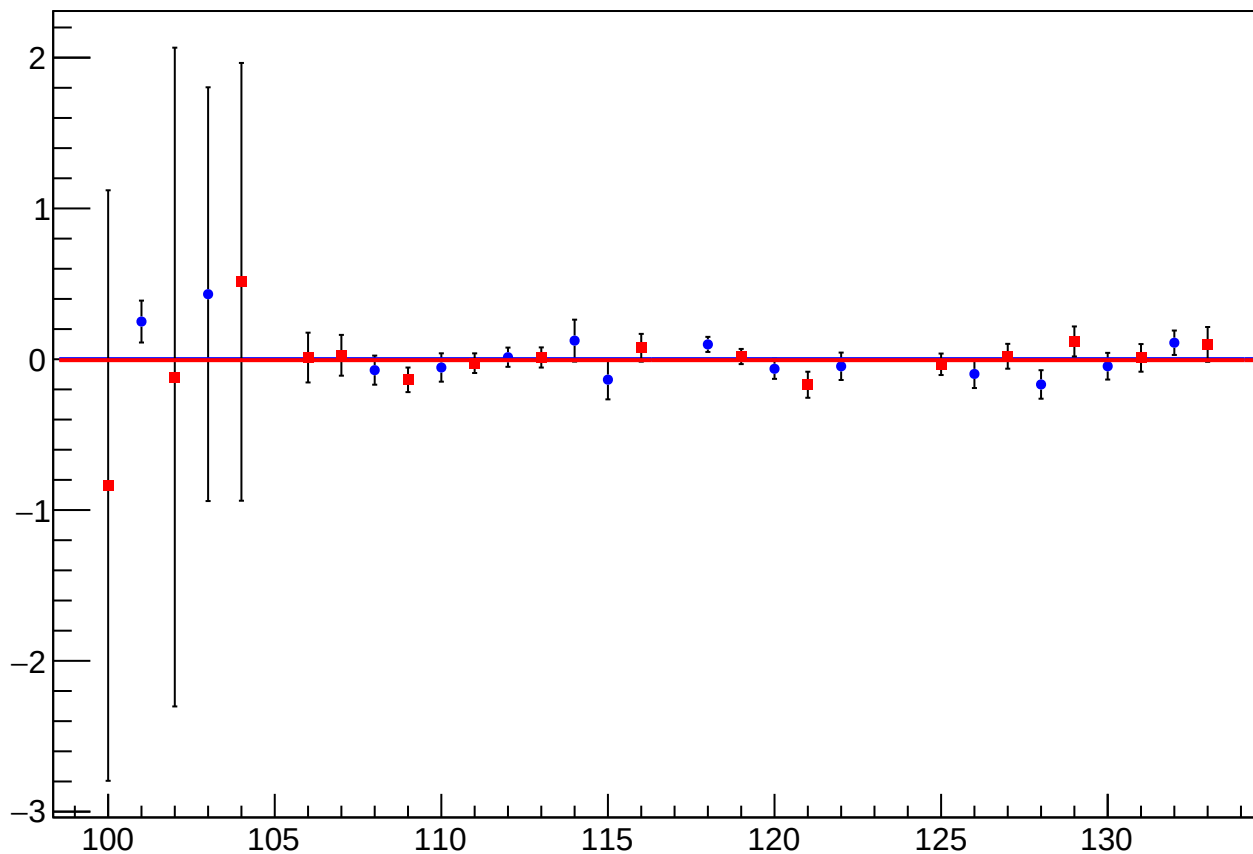
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.412+/-0.011  $\chi^2/\text{NDF}$ : 4075275.9/29

- 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: 0.001 $\pm$ 0.023  $\chi^2$ /NDF: 17.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.006 $\pm$ 0.022  $\chi^2$ /NDF: 10.3/15

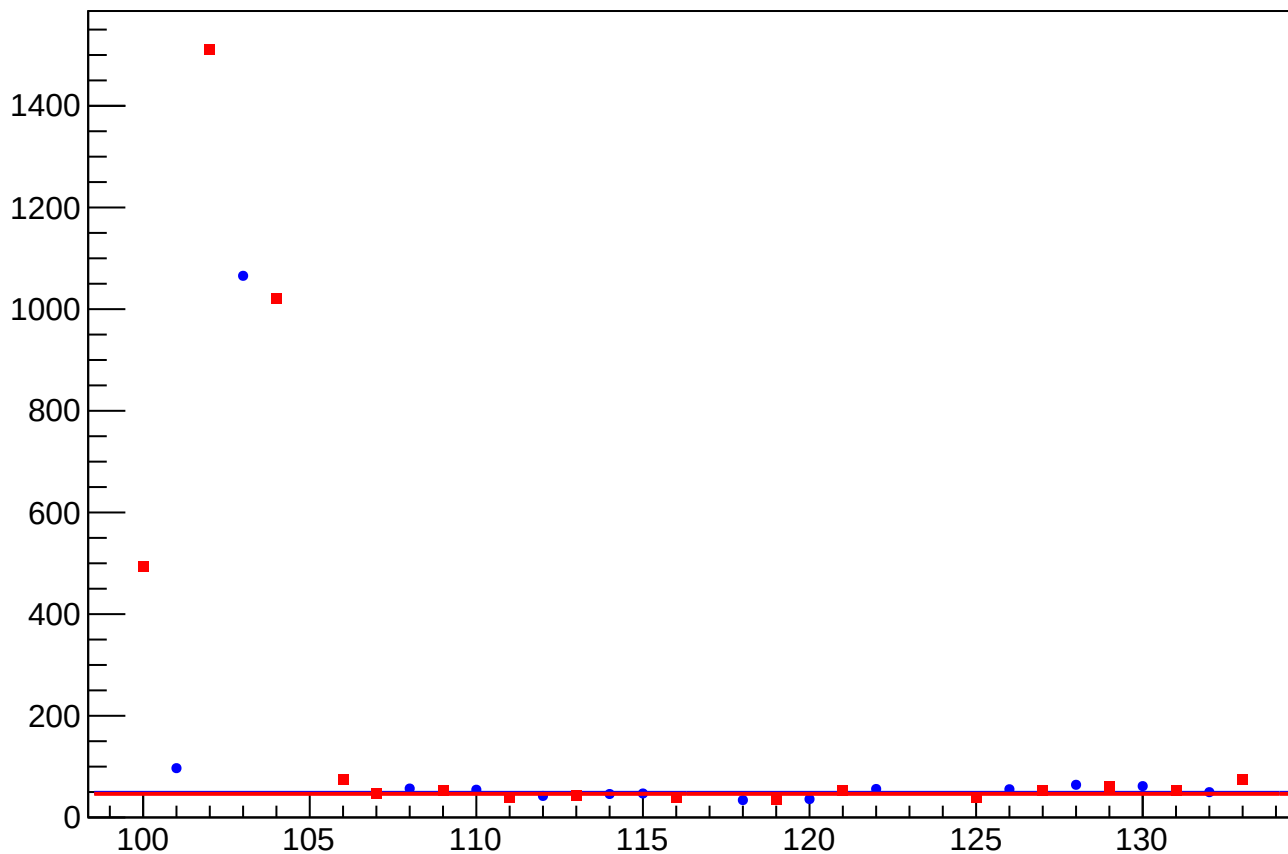
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.016  $\chi^2$ /NDF: 27.9/29

- 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: 48.396+/-0.016  $\chi^2/\text{NDF}$ : 1741868.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.481+/-0.016  $\chi^2/\text{NDF}$ : 2326315.9/15

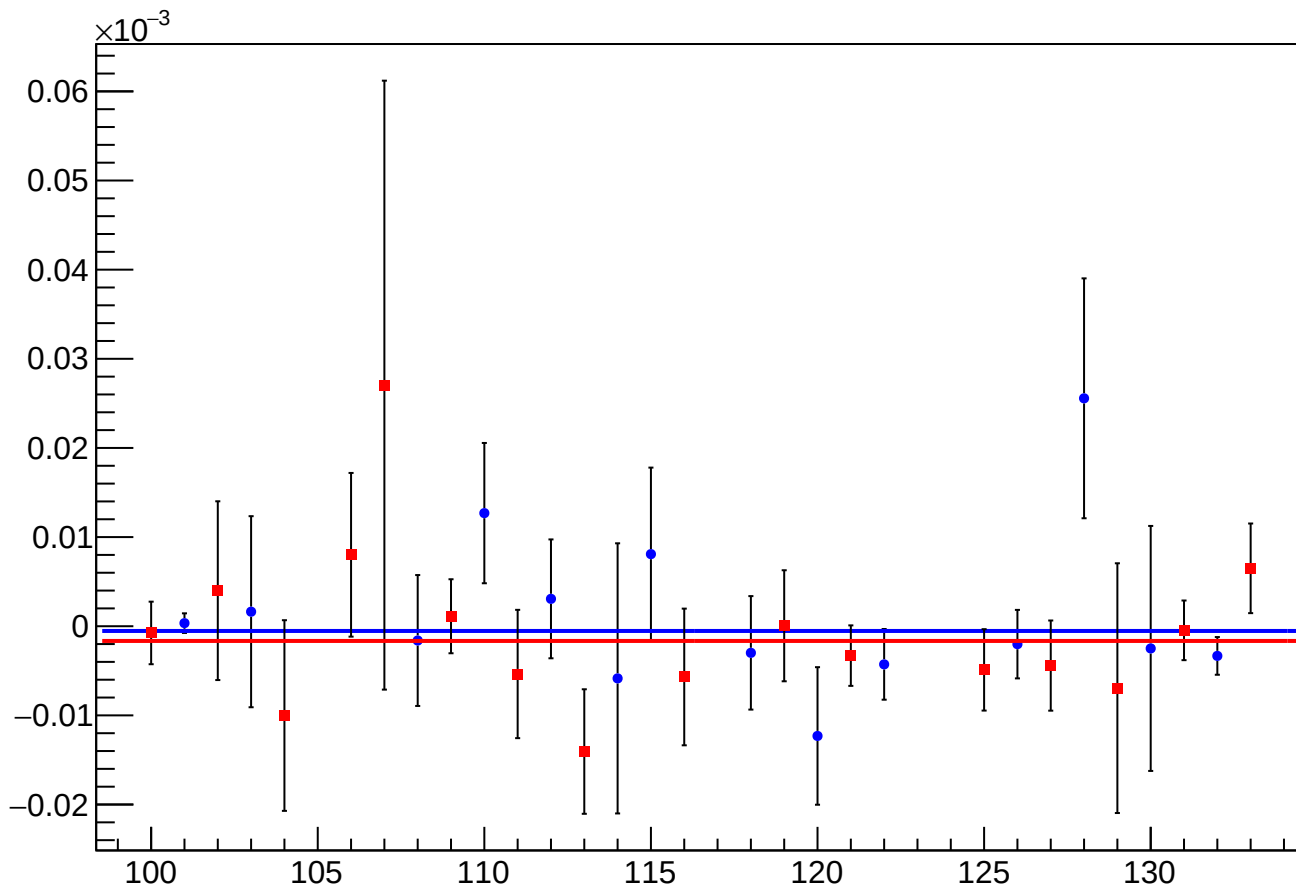
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.412+/-0.011  $\chi^2/\text{NDF}$ : 4075275.9/29

- 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+/-0.000  $\chi^2/\text{NDF}$ : 13.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.0/15

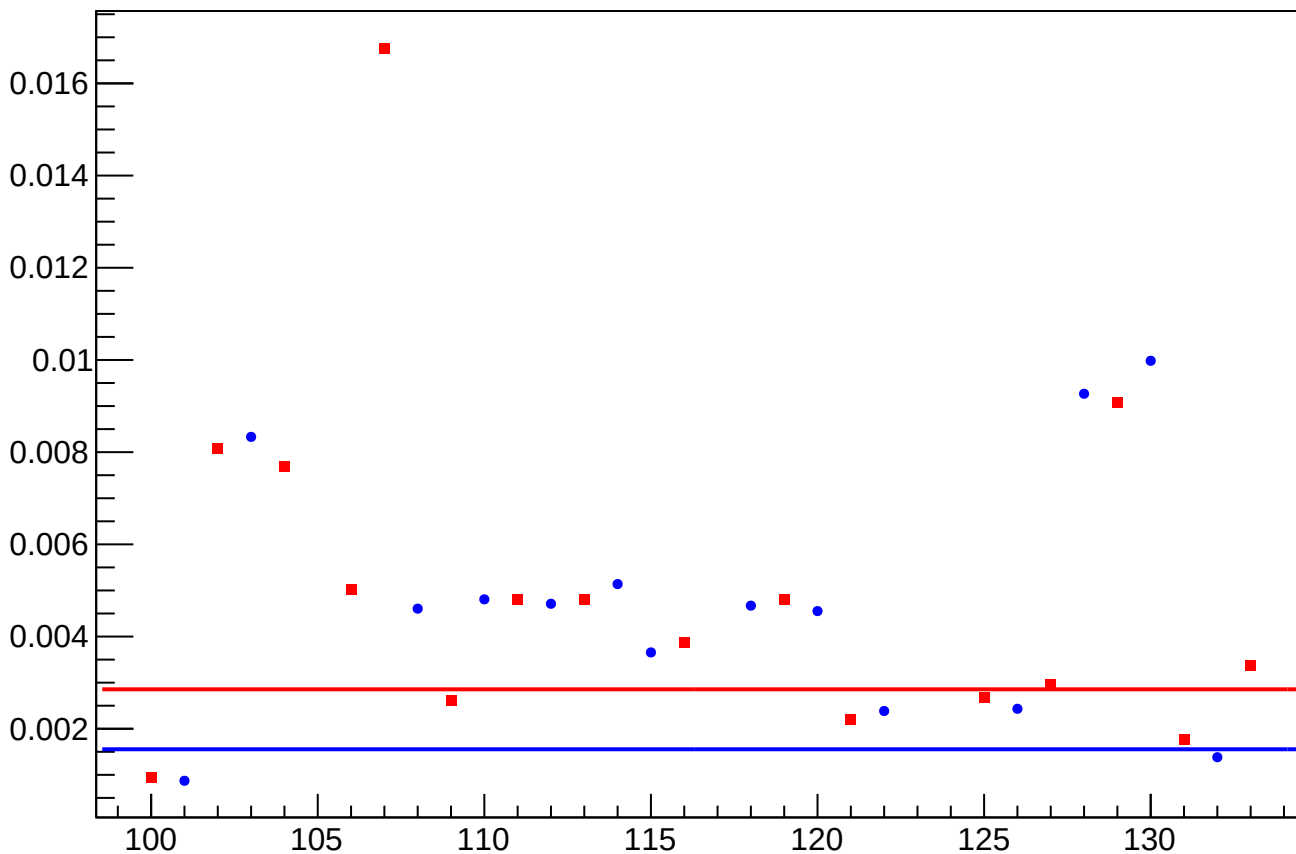
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 25.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 5308403.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 3235782.7/15

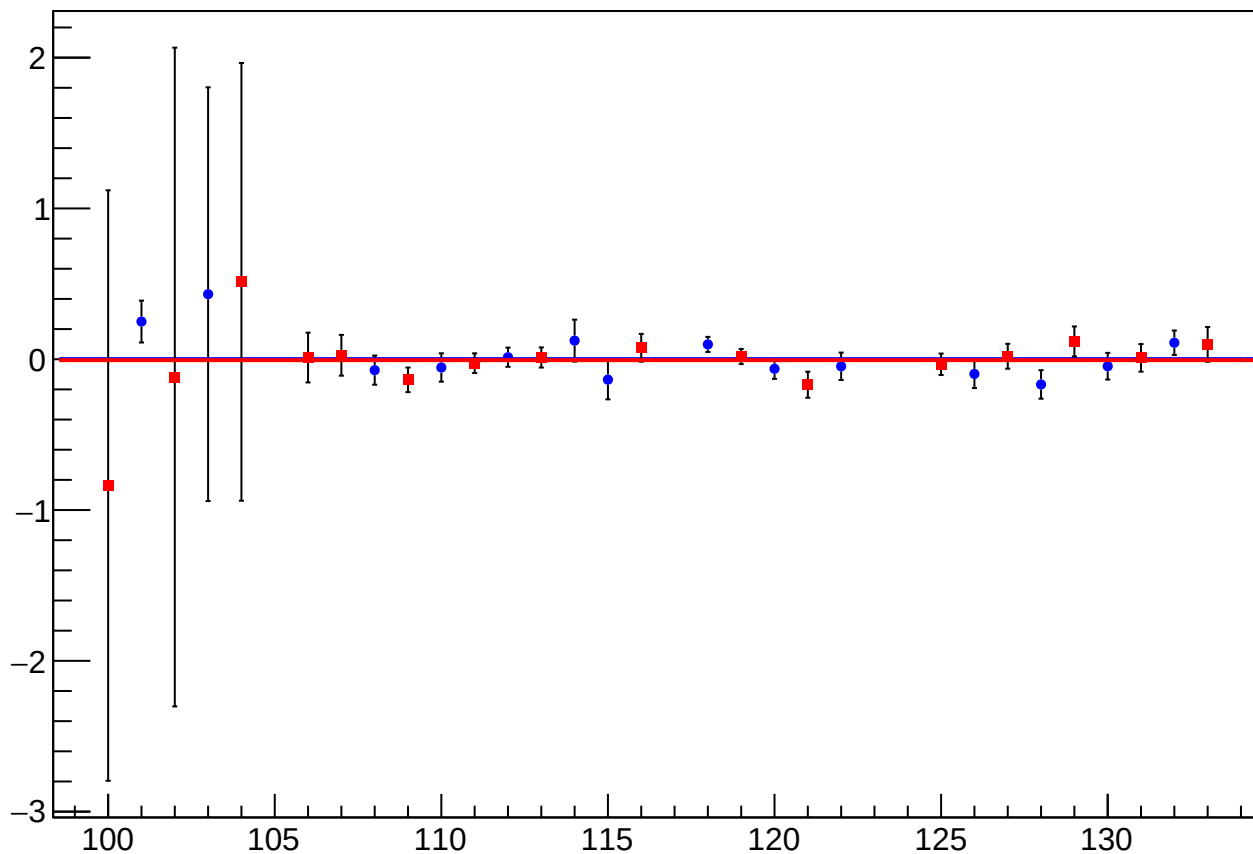
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 9875373.9/29

- 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: 0.001 $\pm$ 0.023  $\chi^2$ /NDF: 17.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.006 $\pm$ 0.022  $\chi^2$ /NDF: 10.3/15

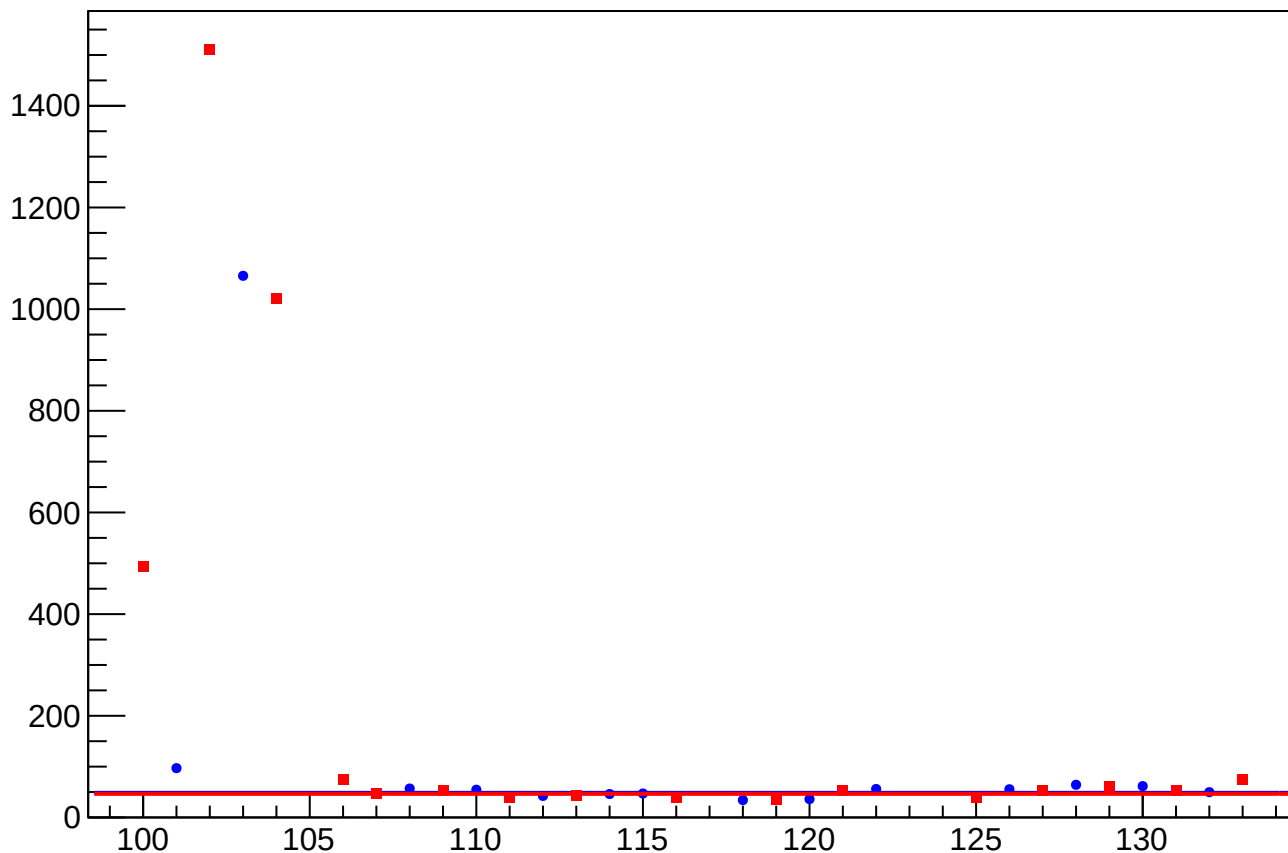
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.016  $\chi^2$ /NDF: 27.9/29

- 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: 48.397+/-0.016  $\chi^2/\text{NDF}$ : 1741799.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.480+/-0.016  $\chi^2/\text{NDF}$ : 2326344.7/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

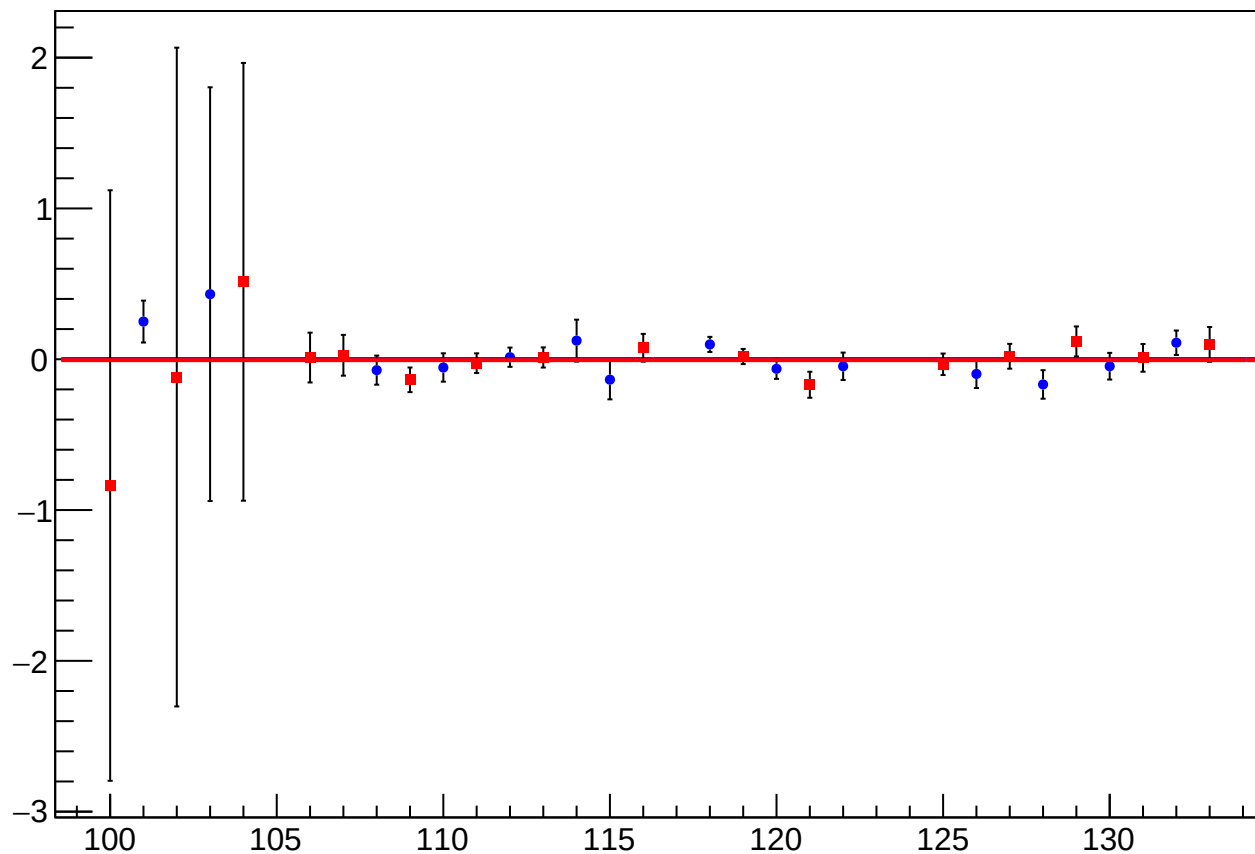
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.411+/-0.011  $\chi^2/\text{NDF}$ : 4075245.6/29

- 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: 0.001 $\pm$ 0.023  $\chi^2$ /NDF: 17.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.006 $\pm$ 0.022  $\chi^2$ /NDF: 10.3/15

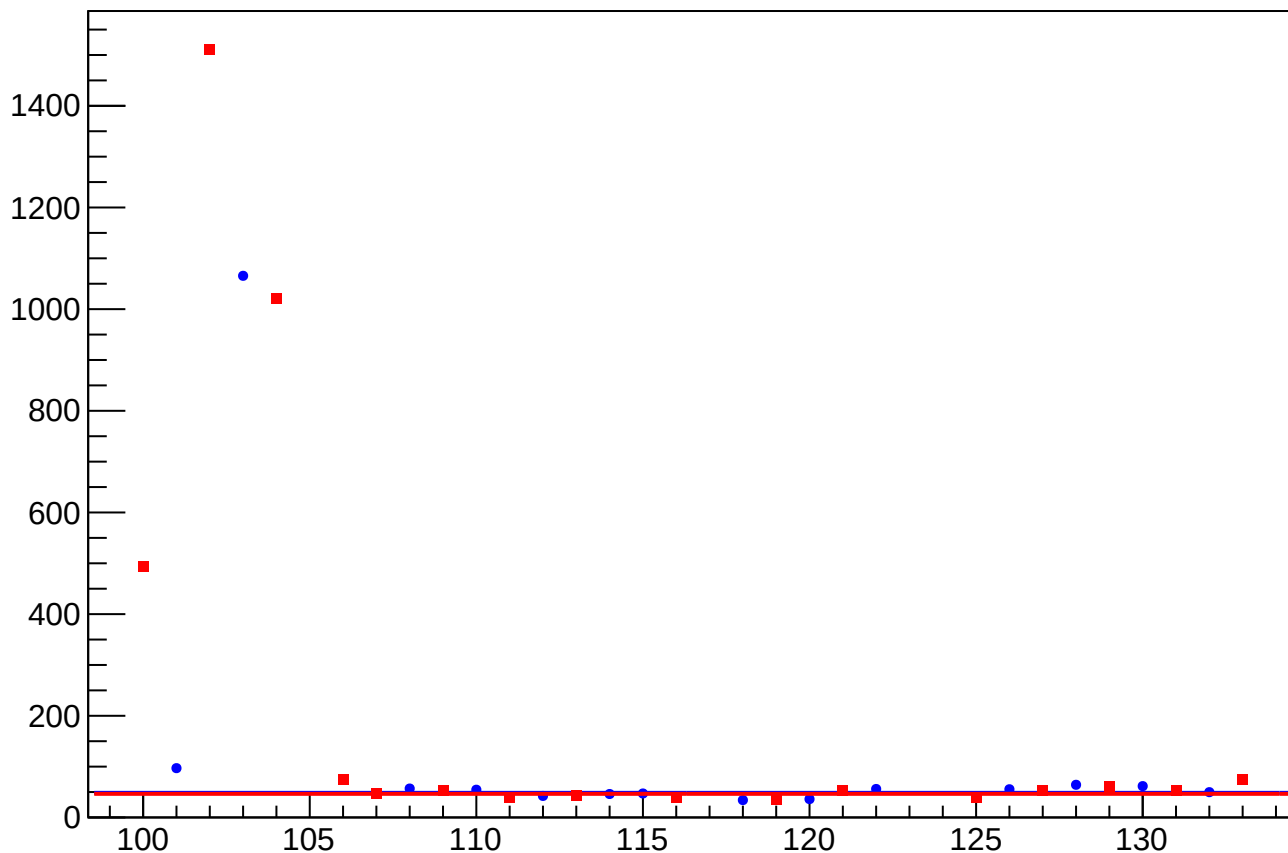
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.016  $\chi^2$ /NDF: 27.9/29

- 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: 48.397+/-0.016  $\chi^2/\text{NDF}$ : 1741799.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.480+/-0.016  $\chi^2/\text{NDF}$ : 2326344.7/15

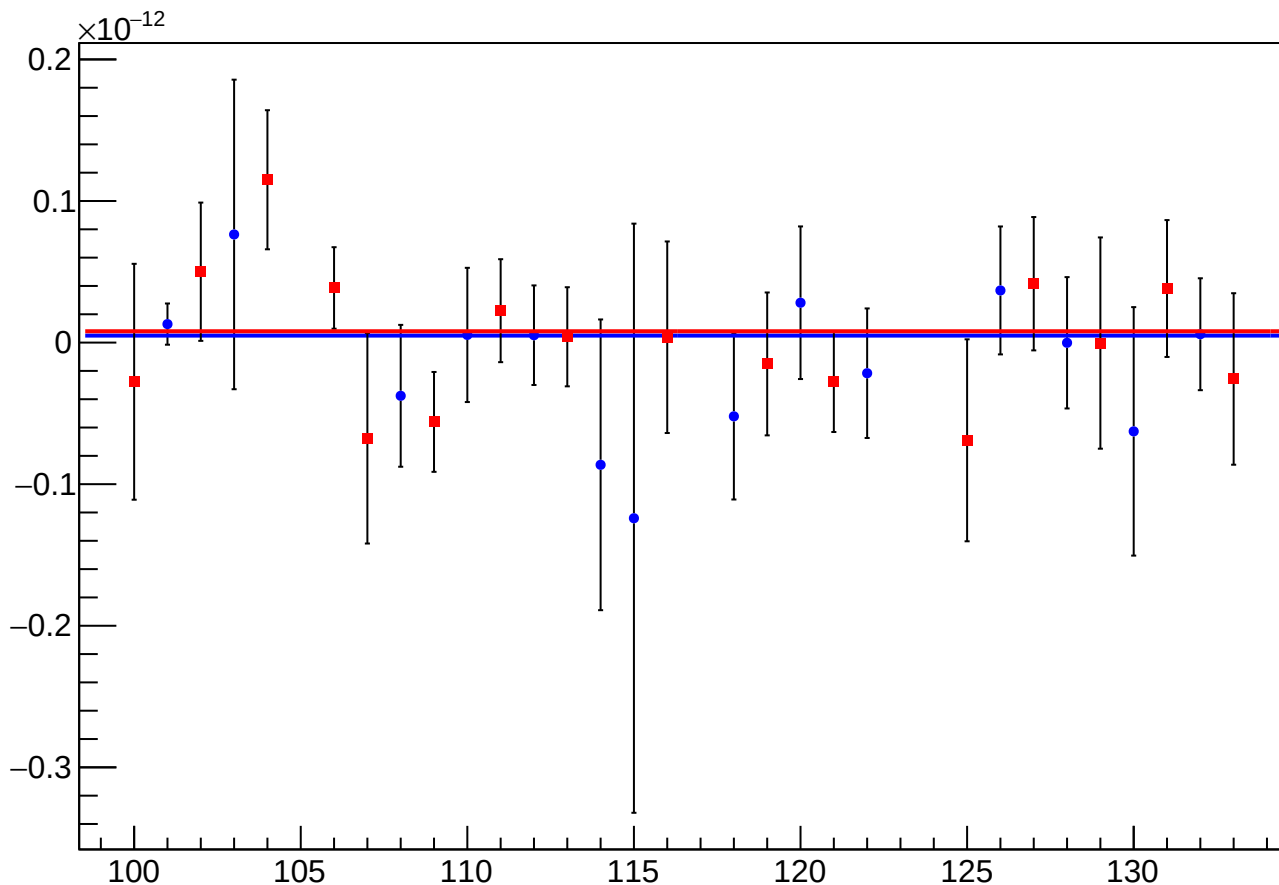
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.411+/-0.011  $\chi^2/\text{NDF}$ : 4075245.6/29

- 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+/-0.000  $\chi^2/\text{NDF}$ : 5.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.9/15

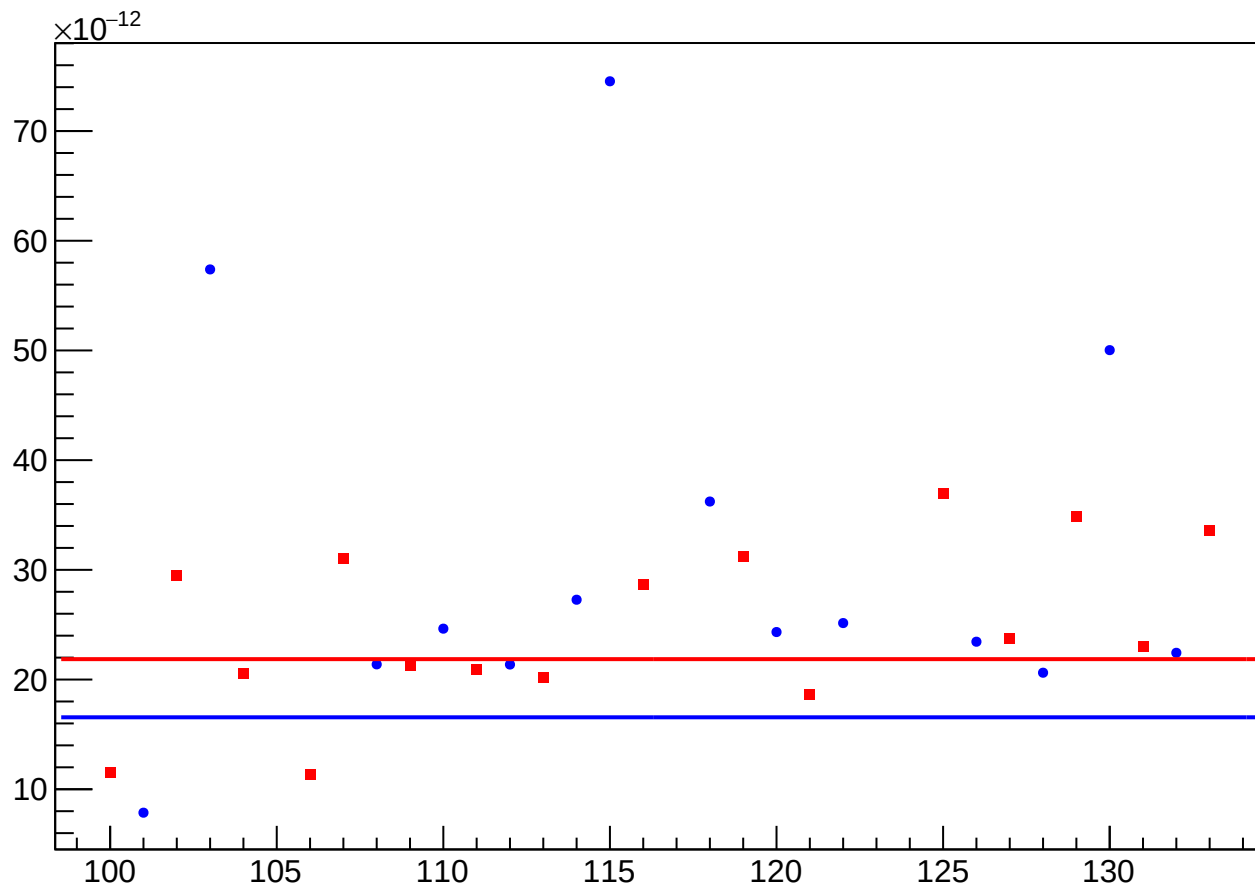
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2017373.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 719335.0/15

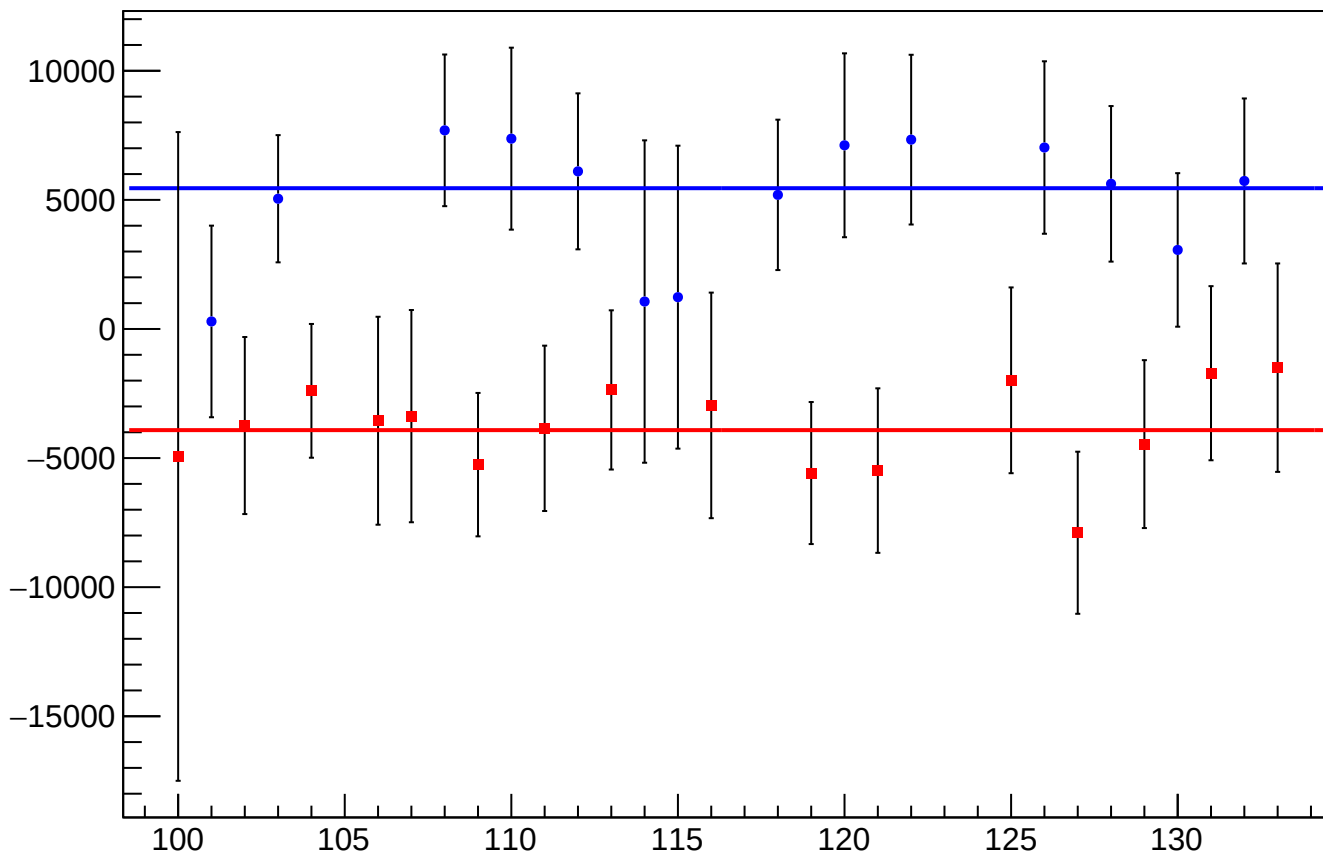
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2974442.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug



Right In: 5452.726 $\pm$ 877.680  $\chi^2$ /NDF: 5.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3917.611 $\pm$ 845.374  $\chi^2$ /NDF: 4.2/15

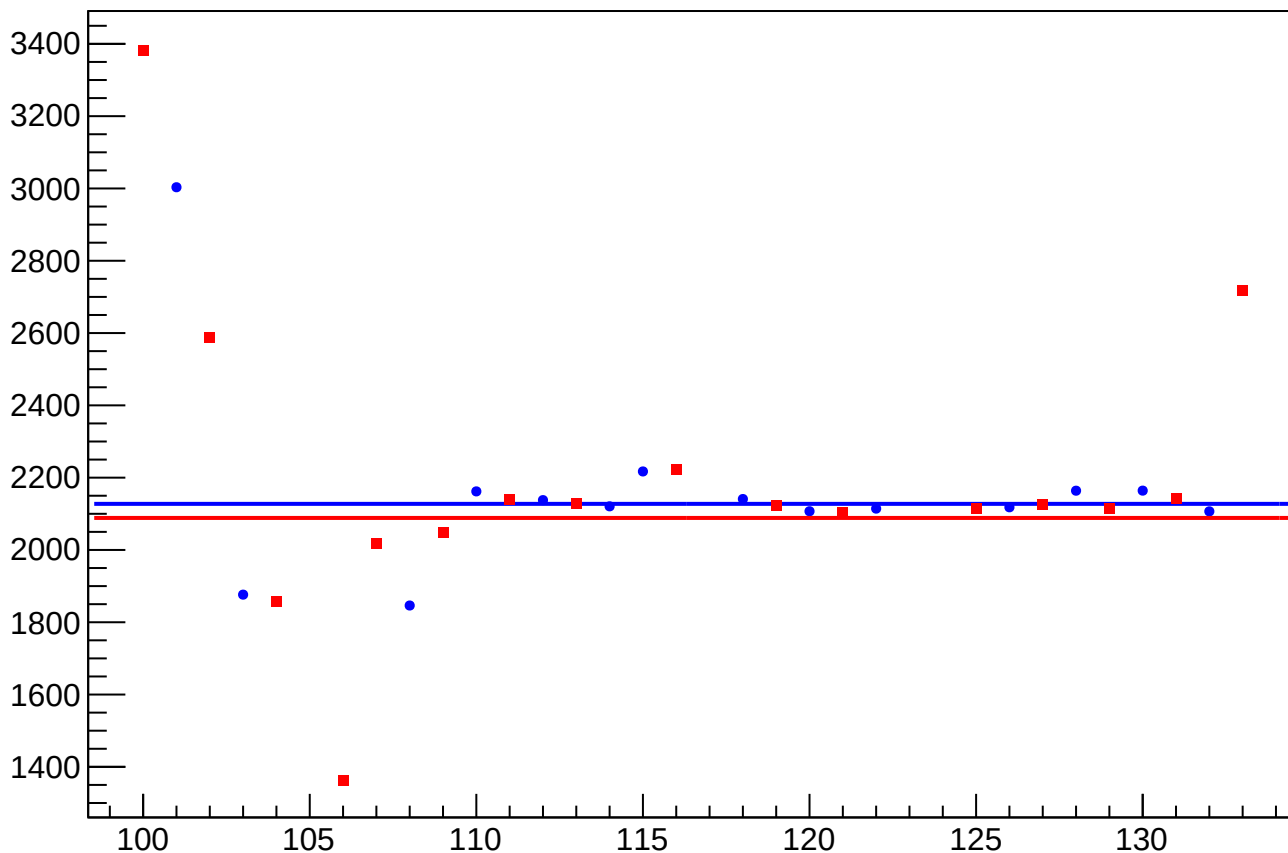
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 591.935 $\pm$ 608.870  $\chi^2$ /NDF: 68.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 2127.512+/-0.621  $\chi^2$ /NDF: 152048.7/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

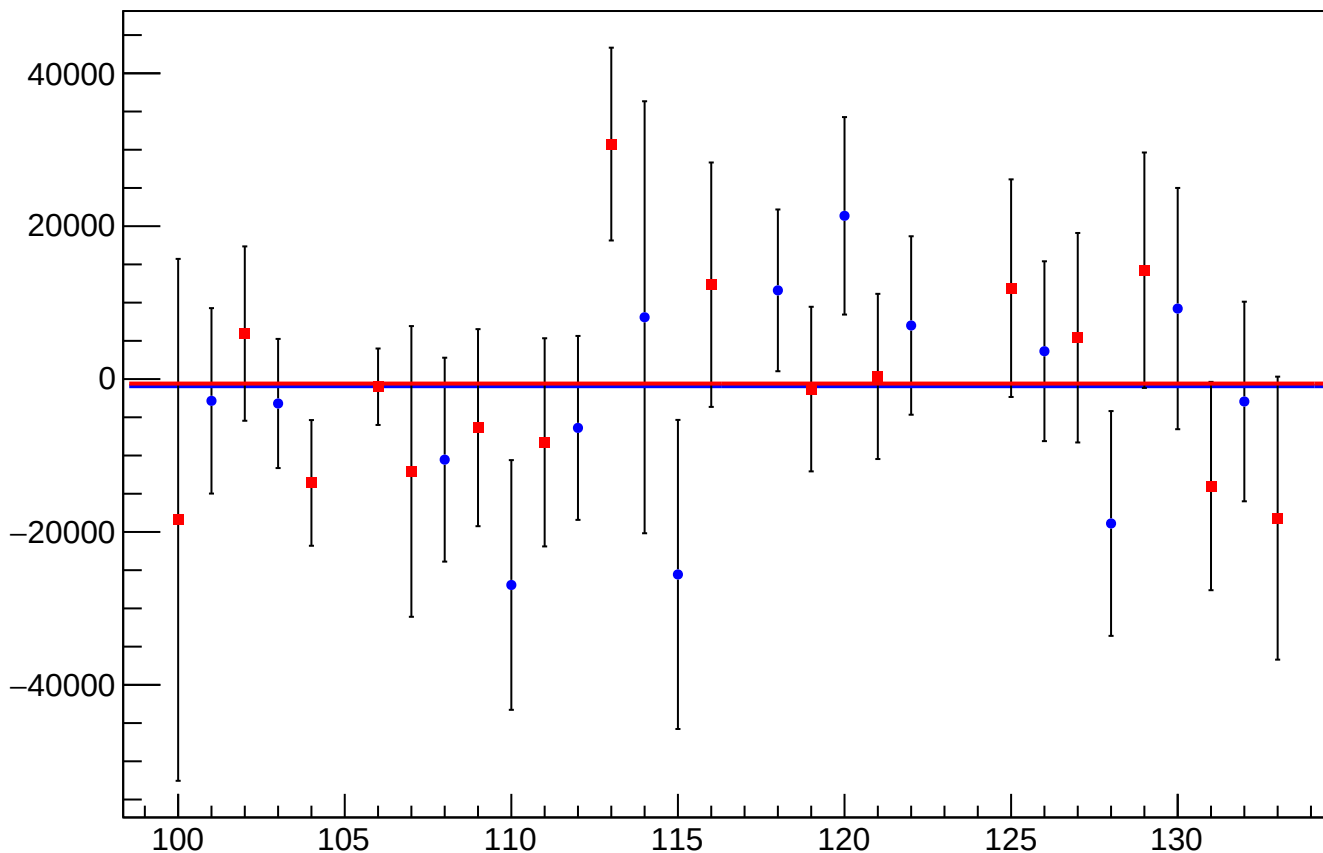
Right Out: 2088.578+/-0.587  $\chi^2$ /NDF: 250424.9/15

All: 2106.976+/-0.427  $\chi^2$ /NDF: 404549.5/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_reg\_correction\_mean vs Slug



Right In: -931.249+/-3434.218  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -587.517+/-2798.382  $\chi^2/\text{NDF}$ : 14.6/15

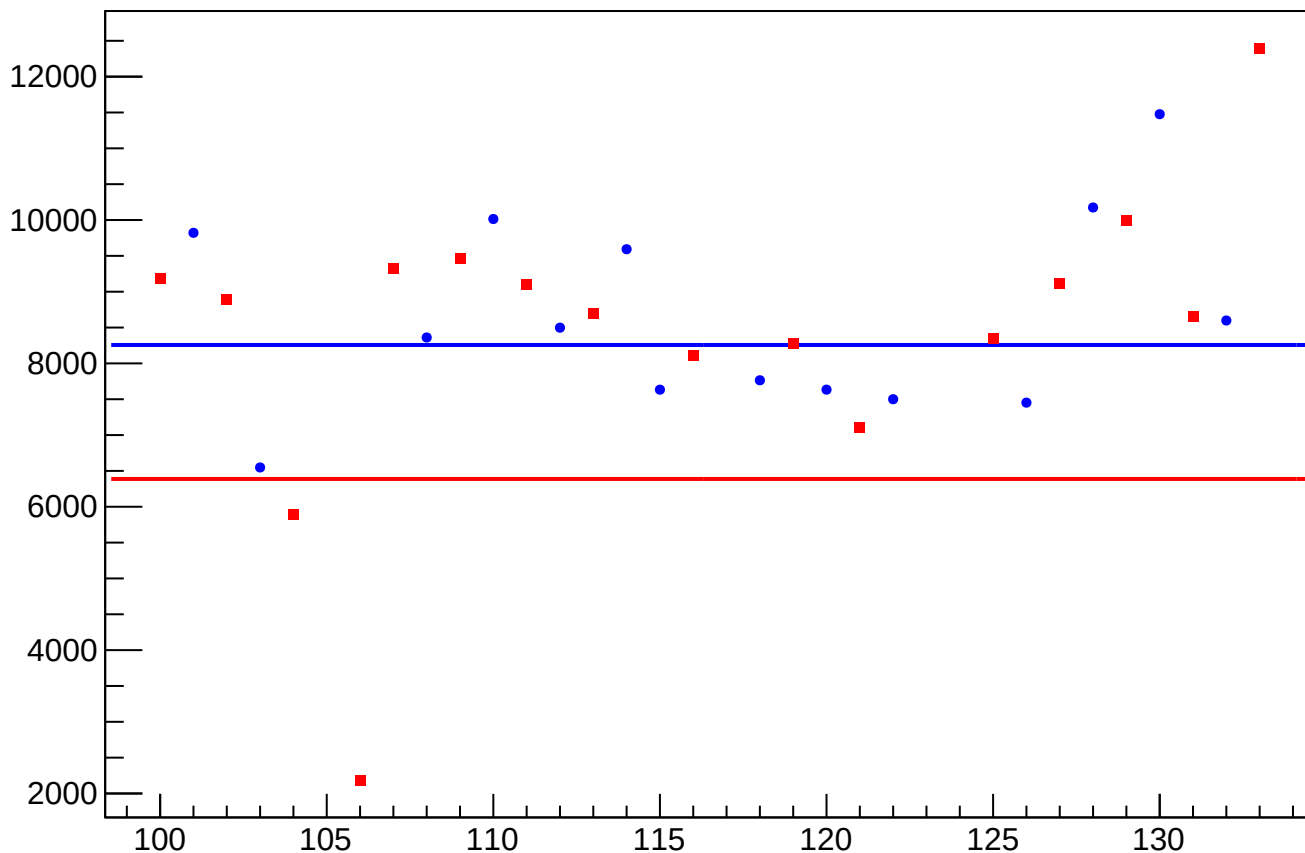
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -724.677+/-2169.363  $\chi^2/\text{NDF}$ : 26.5/29

- 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: 8256.686 $\pm$ 2.428  $\chi^2$ /NDF: 290953.9/13

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: 6387.738 $\pm$ 1.979  $\chi^2$ /NDF: 2425388.5/15

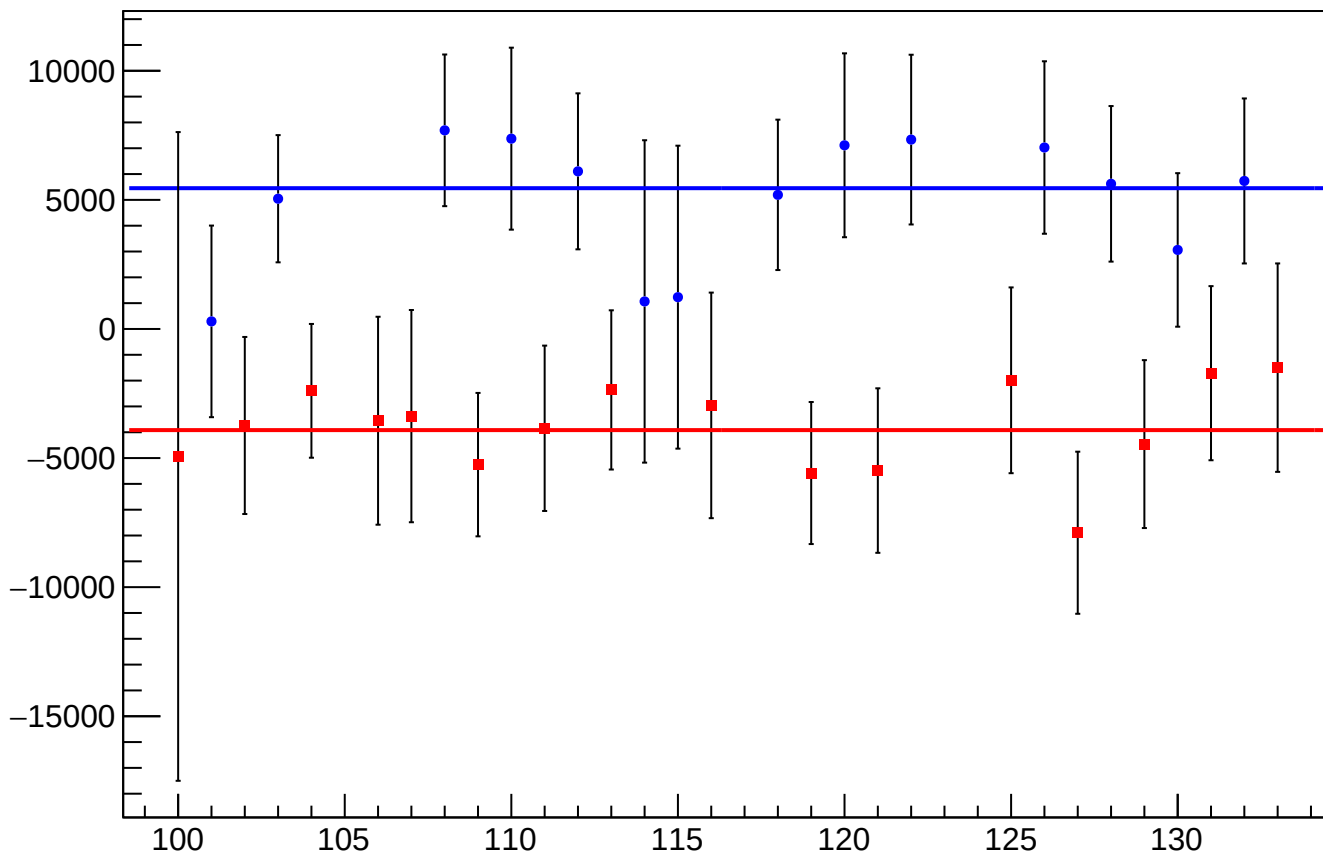
All: 7133.510 $\pm$ 1.534  $\chi^2$ /NDF: 3072317.3/29

- 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\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug



Right In: 5452.951 $\pm$ 877.680  $\chi^2$ /NDF: 5.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3917.304 $\pm$ 845.374  $\chi^2$ /NDF: 4.2/15

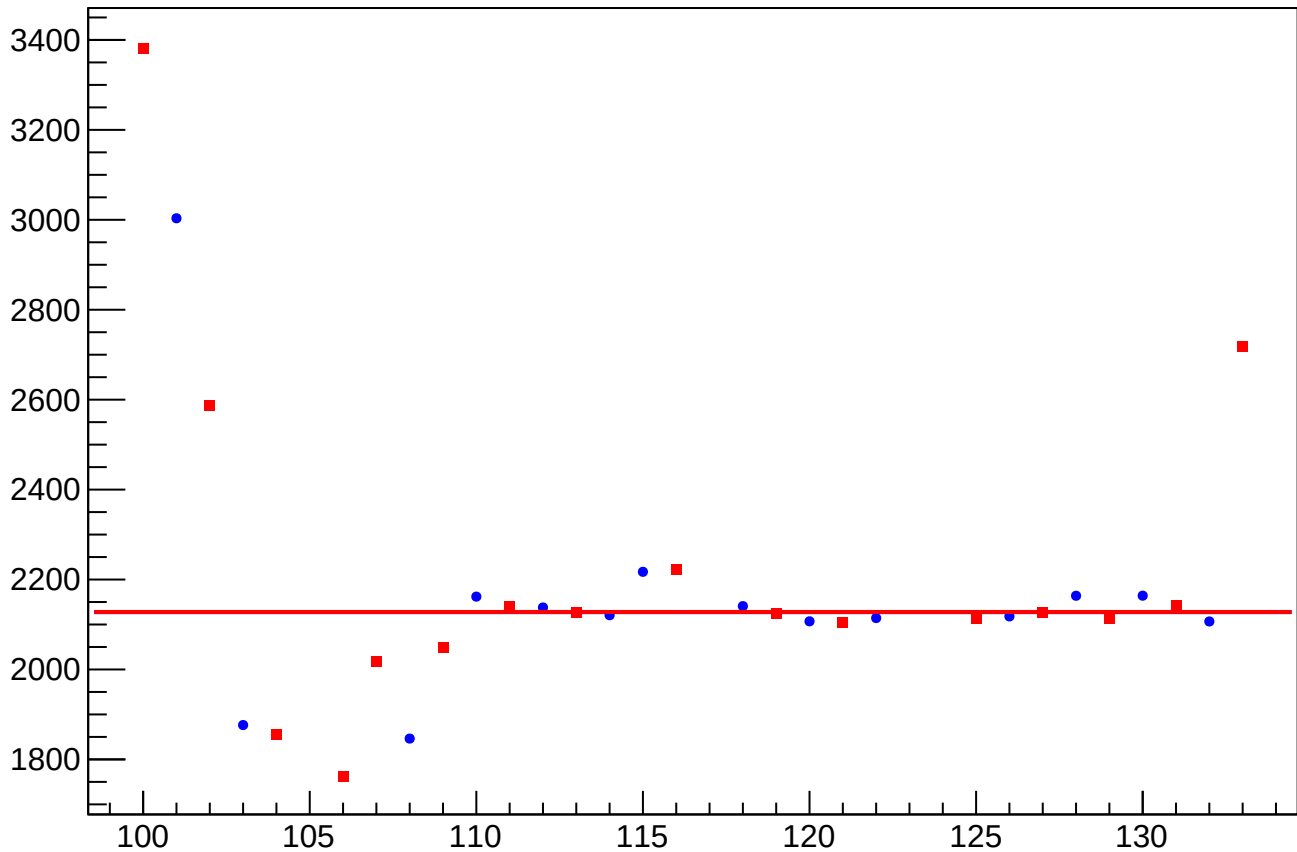
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 592.202 $\pm$ 608.870  $\chi^2$ /NDF: 68.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 2127.512 $\pm$ 0.621  $\chi^2$ /NDF: 152049.0/13

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

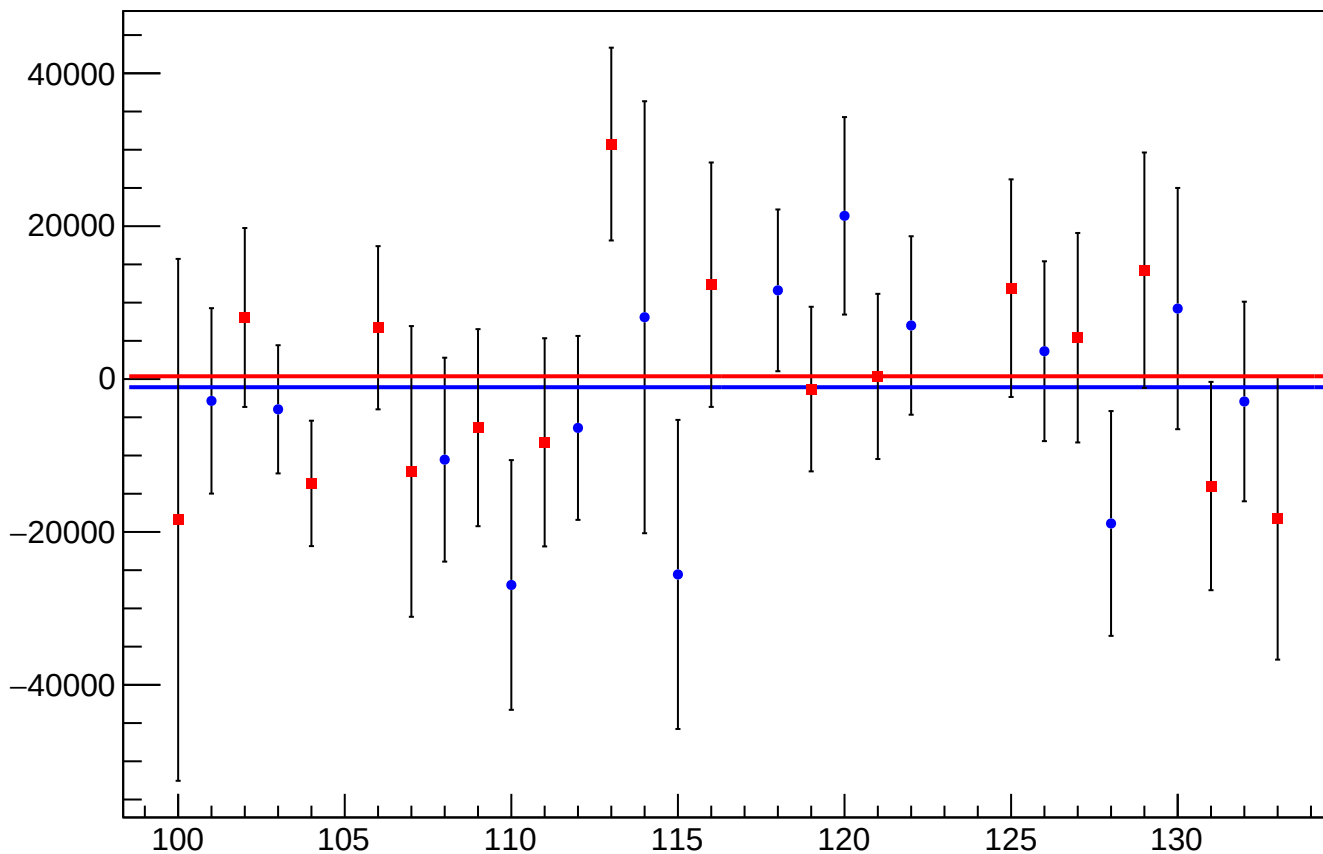
Right Out: 2127.889 $\pm$ 0.595  $\chi^2$ /NDF: 145385.7/15

All: 2127.709 $\pm$ 0.429  $\chi^2$ /NDF: 297434.8/29

- 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\_avg\_at2lr\_avg\_avg\_cor\_correction\_mean vs Slug



Right In: -1064.809+/-3429.858  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 365.586+/-3224.866  $\chi^2/\text{NDF}$ : 15.2/15

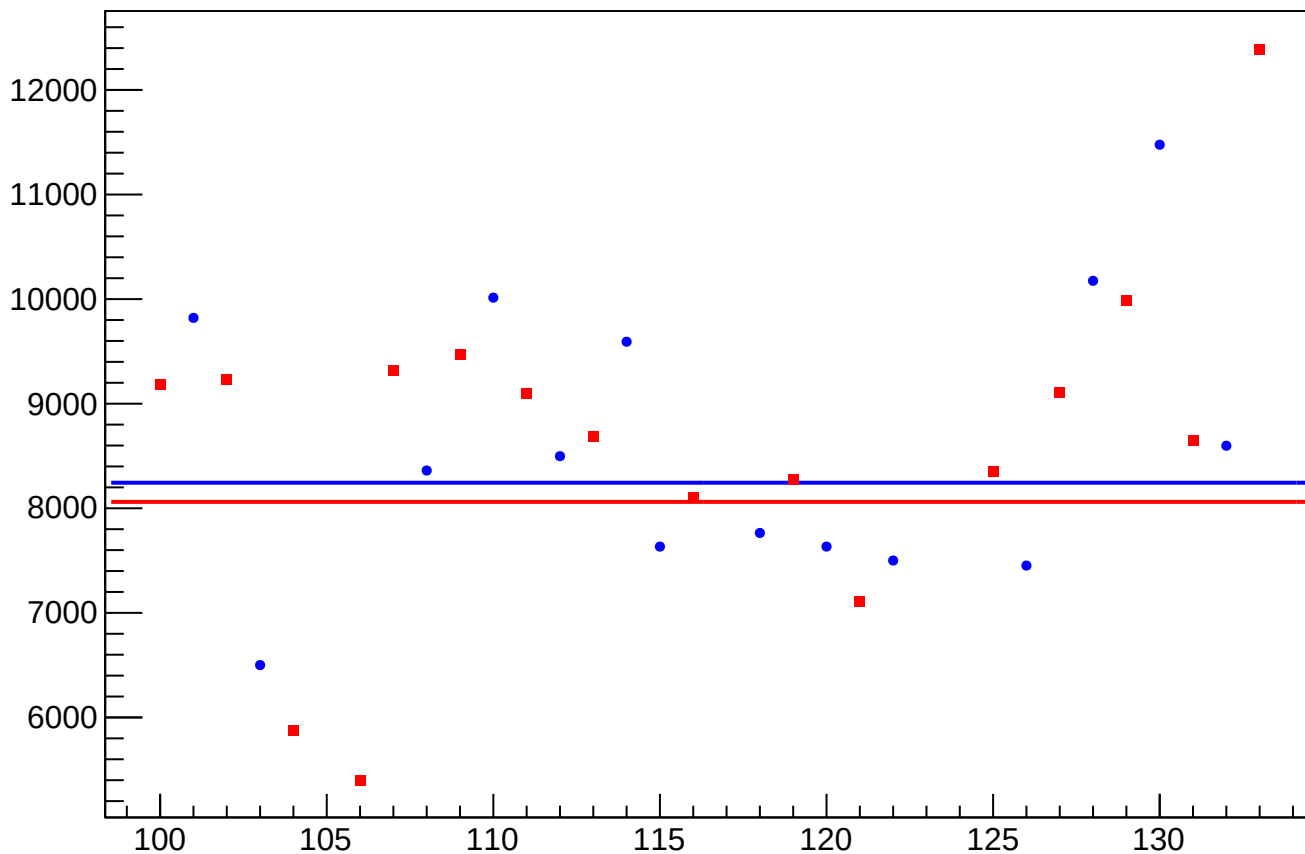
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -305.592+/-2349.454  $\chi^2/\text{NDF}$ : 27.2/29

- 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: 8244.404+/-2.425  $\chi^2/\text{NDF}$ : 296817.9/13

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

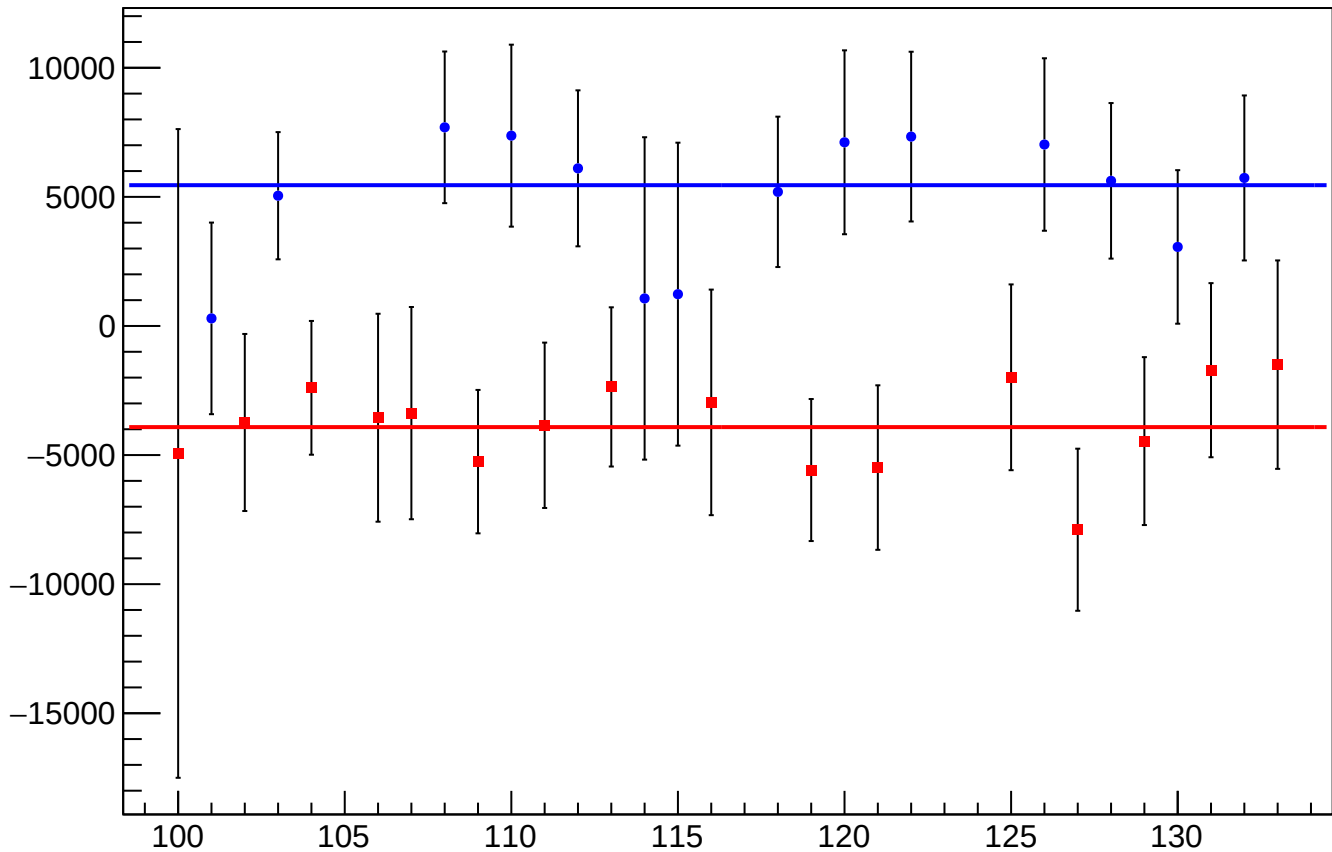
Right Out: 8061.340+/-2.280  $\chi^2/\text{NDF}$ : 510001.6/15

All: 8147.238+/-1.661  $\chi^2/\text{NDF}$ : 809843.6/29

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- 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: 5452.951 $\pm$ 877.680  $\chi^2$ /NDF: 5.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3917.304 $\pm$ 845.374  $\chi^2$ /NDF: 4.2/15

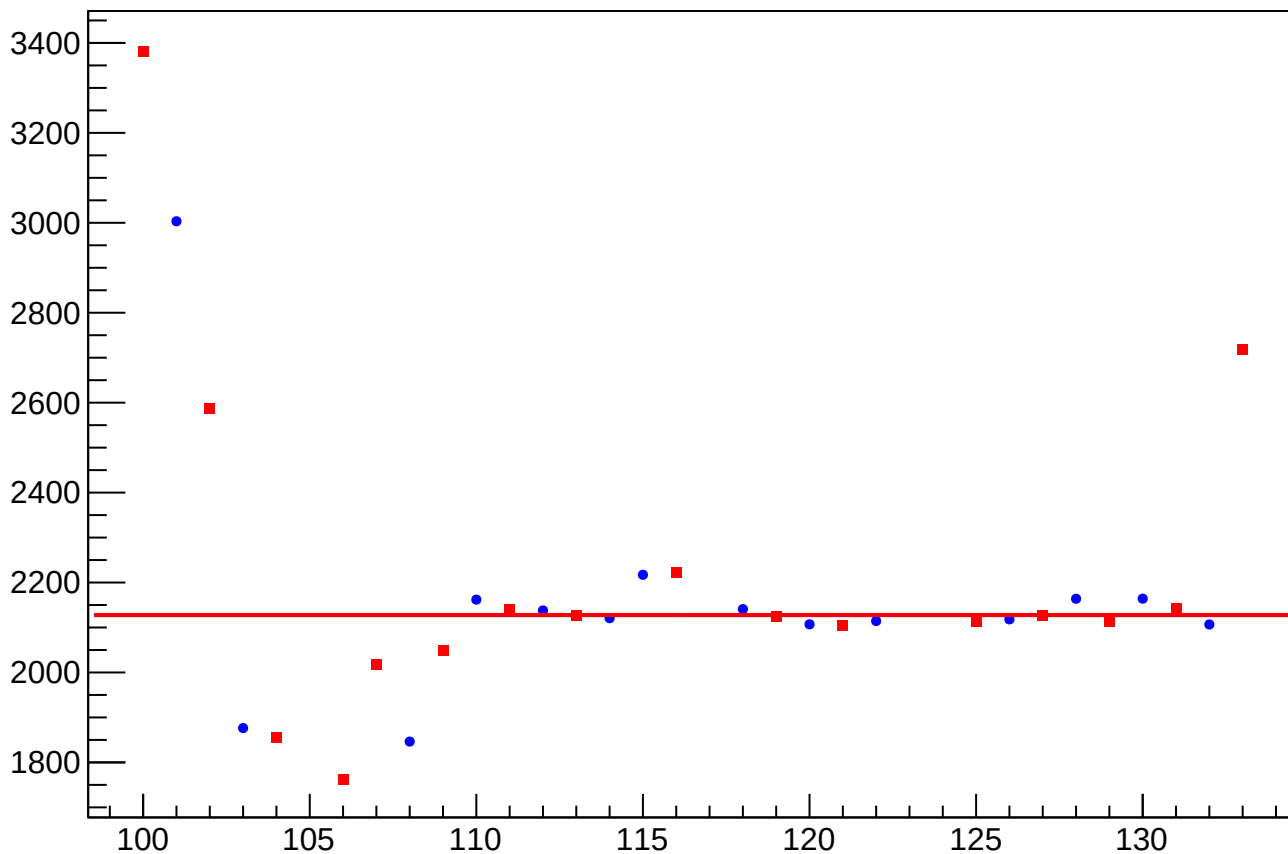
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 592.202 $\pm$ 608.870  $\chi^2$ /NDF: 68.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 2127.512+/-0.621  $\chi^2/\text{NDF}$ : 152049.0/13

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

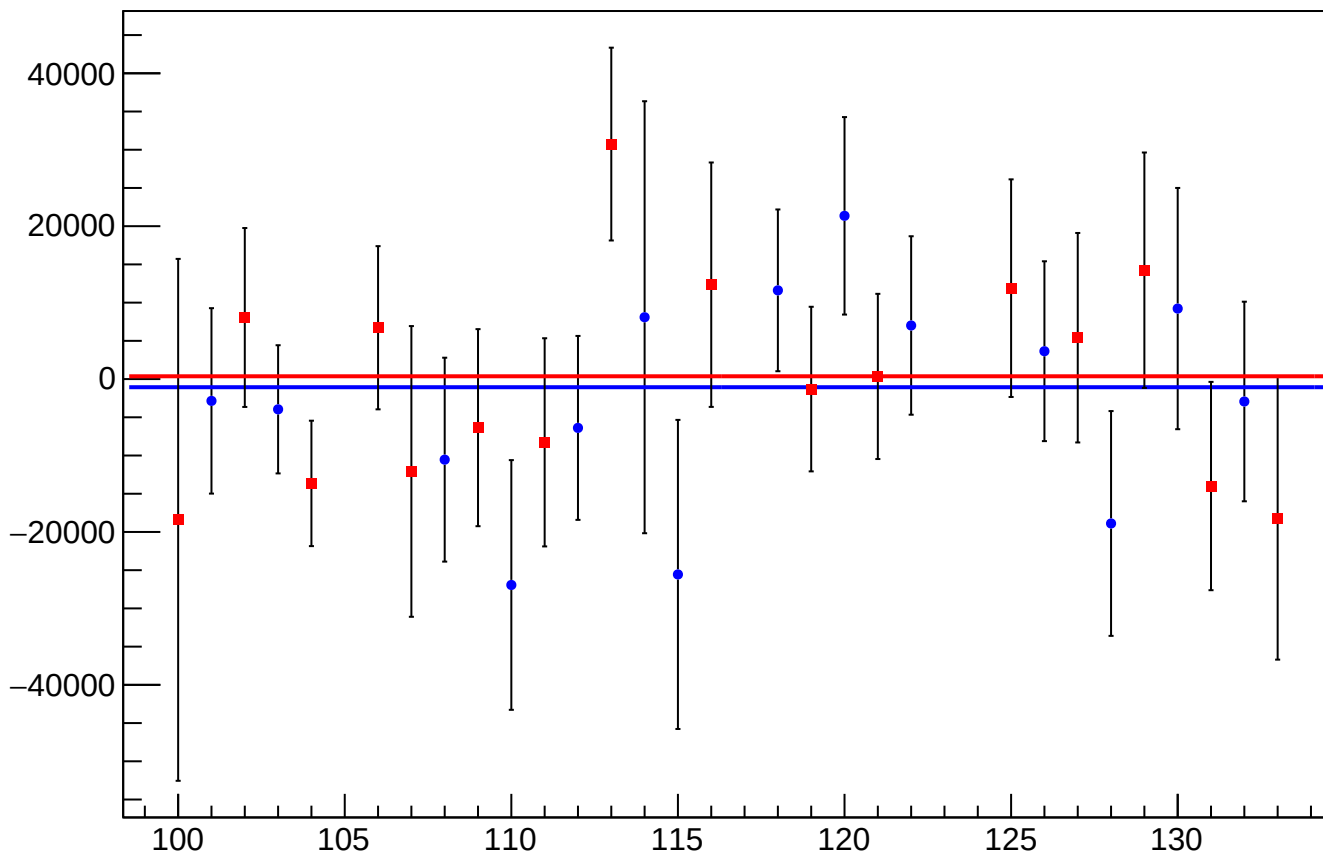
Right Out: 2127.889+/-0.595  $\chi^2/\text{NDF}$ : 145385.7/15

All: 2127.709+/-0.429  $\chi^2/\text{NDF}$ : 297434.8/29

- 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: -1064.809+/-3429.858  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 365.586+/-3224.866  $\chi^2/\text{NDF}$ : 15.2/15

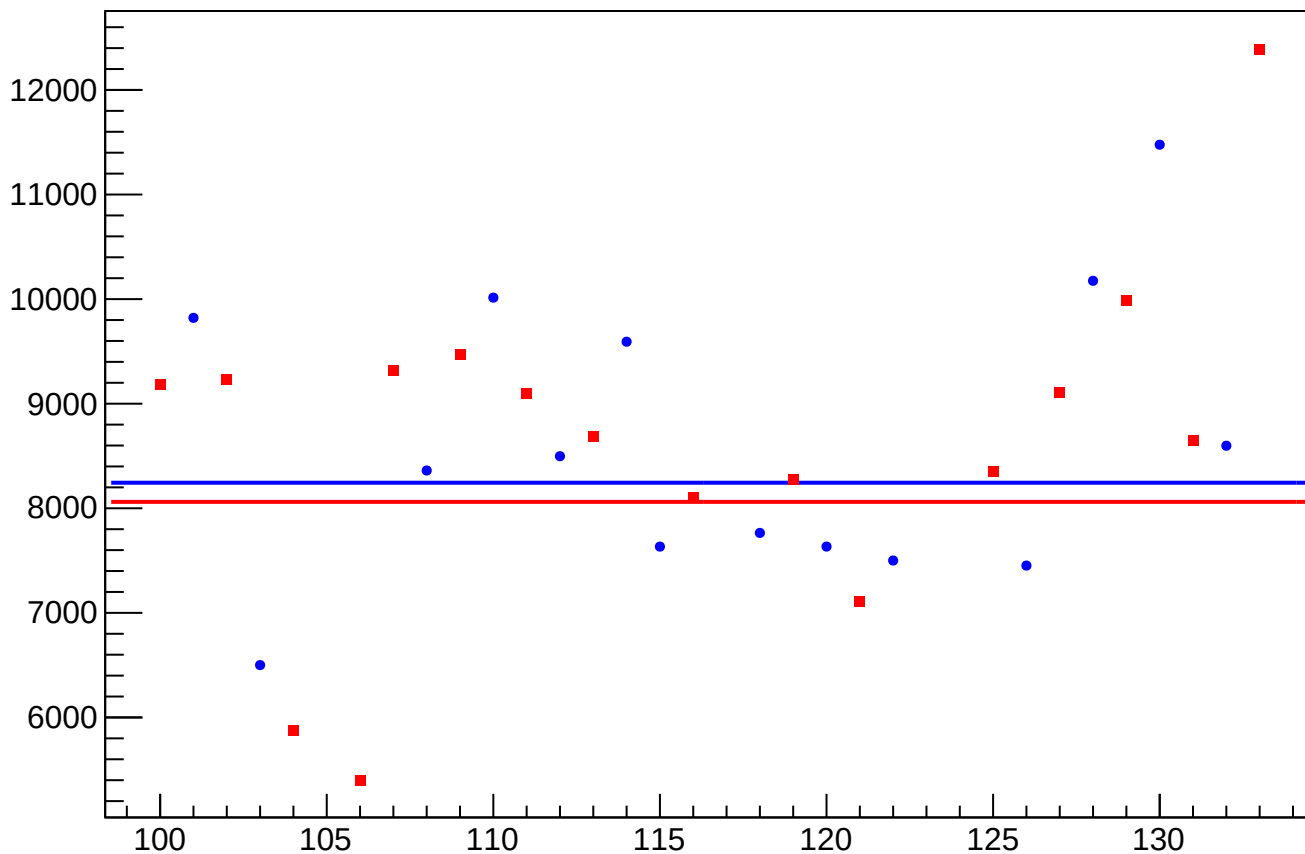
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -305.592+/-2349.454  $\chi^2/\text{NDF}$ : 27.2/29

- 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: 8244.404+/-2.425  $\chi^2/\text{NDF}$ : 296817.9/13

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: 8061.340+/-2.280  $\chi^2/\text{NDF}$ : 510001.6/15

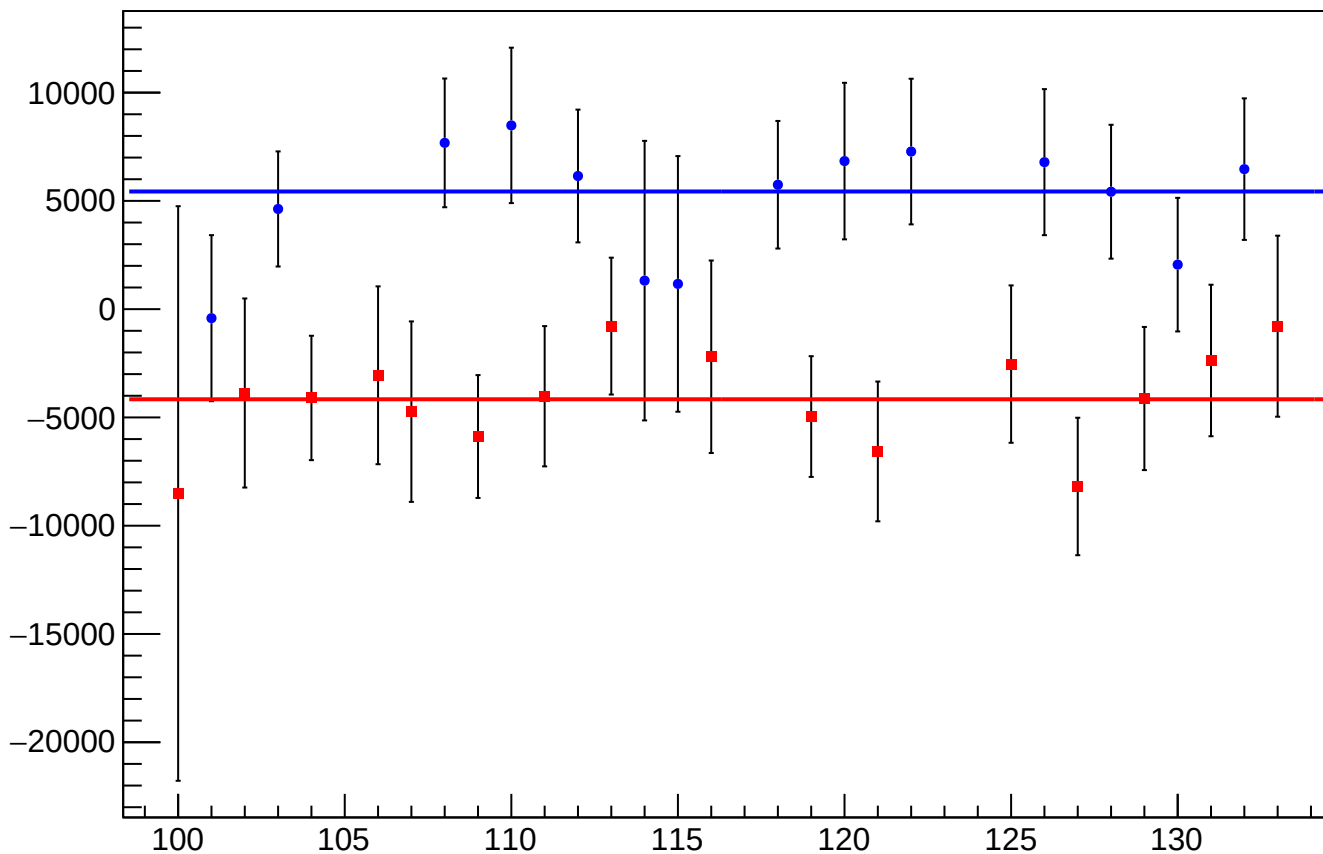
All: 8147.238+/-1.661  $\chi^2/\text{NDF}$ : 809843.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug



Right In: 5433.634 $\pm$ 901.281  $\chi^2$ /NDF: 6.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4161.705 $\pm$ 878.149  $\chi^2$ /NDF: 5.3/15

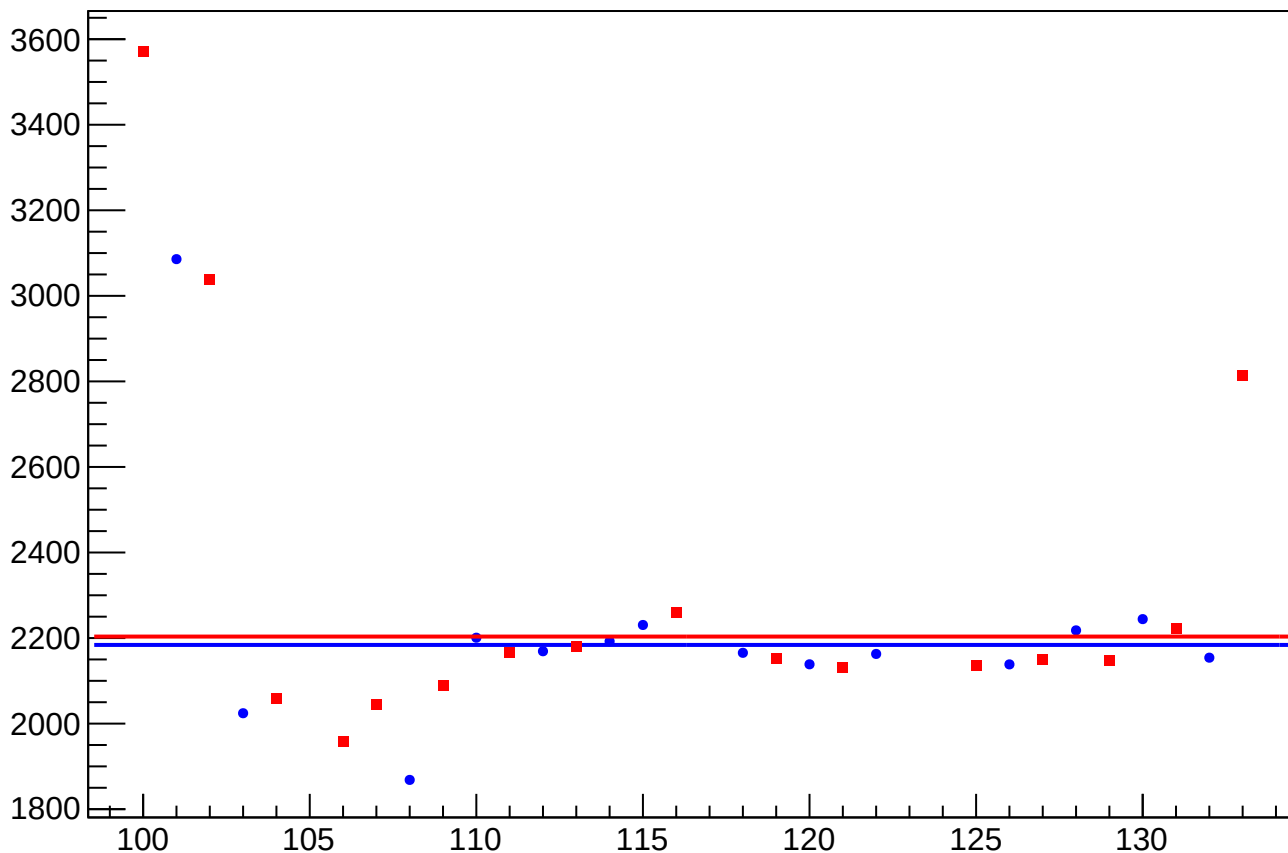
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 511.249 $\pm$ 628.964  $\chi^2$ /NDF: 70.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 2183.937 $\pm$ 0.637  $\chi^2$ /NDF: 142658.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2203.489 $\pm$ 0.621  $\chi^2$ /NDF: 160010.5/15

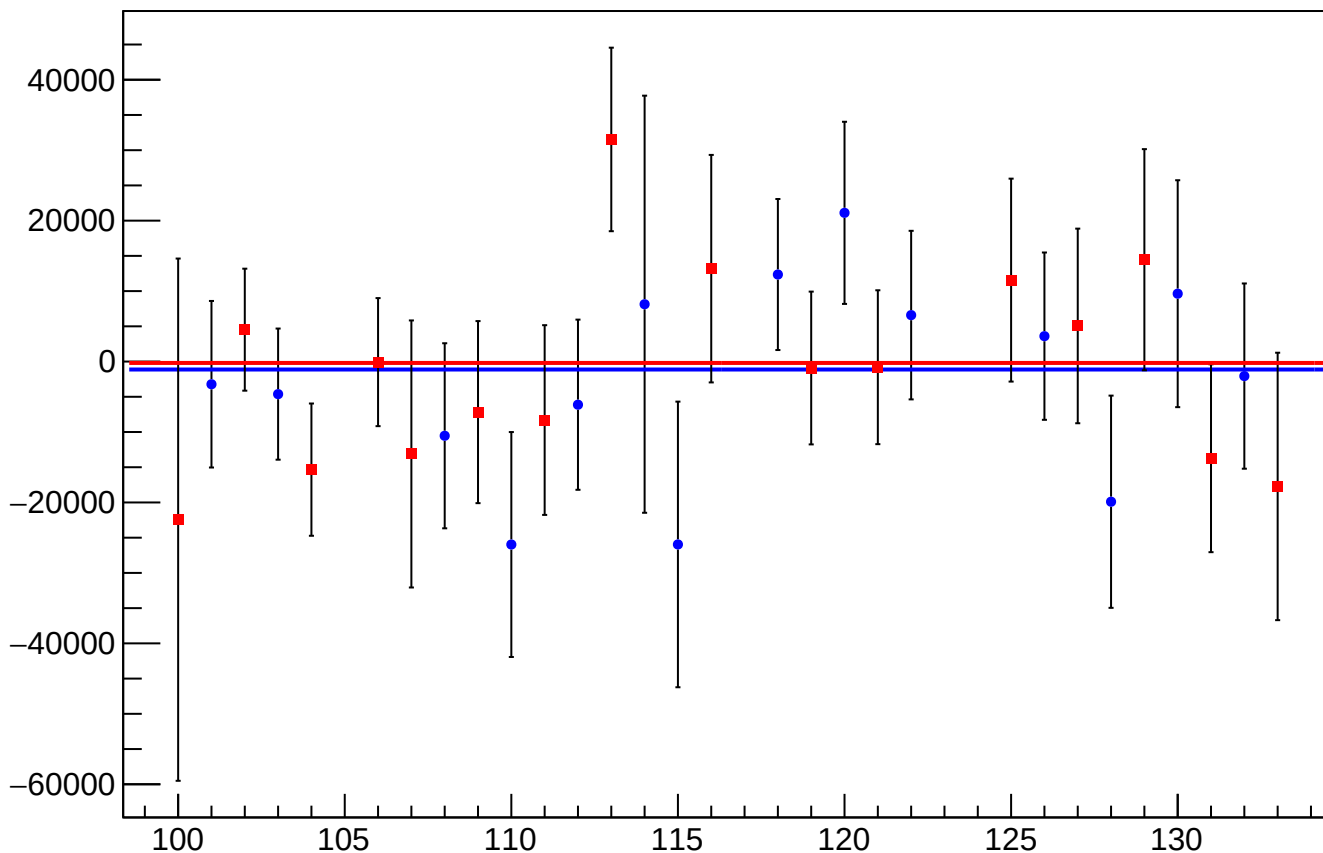
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2193.974 $\pm$ 0.445  $\chi^2$ /NDF: 303152.6/29

- 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: -1129.875+/-3499.126  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -197.767+/-3147.219  $\chi^2/\text{NDF}$ : 14.6/15

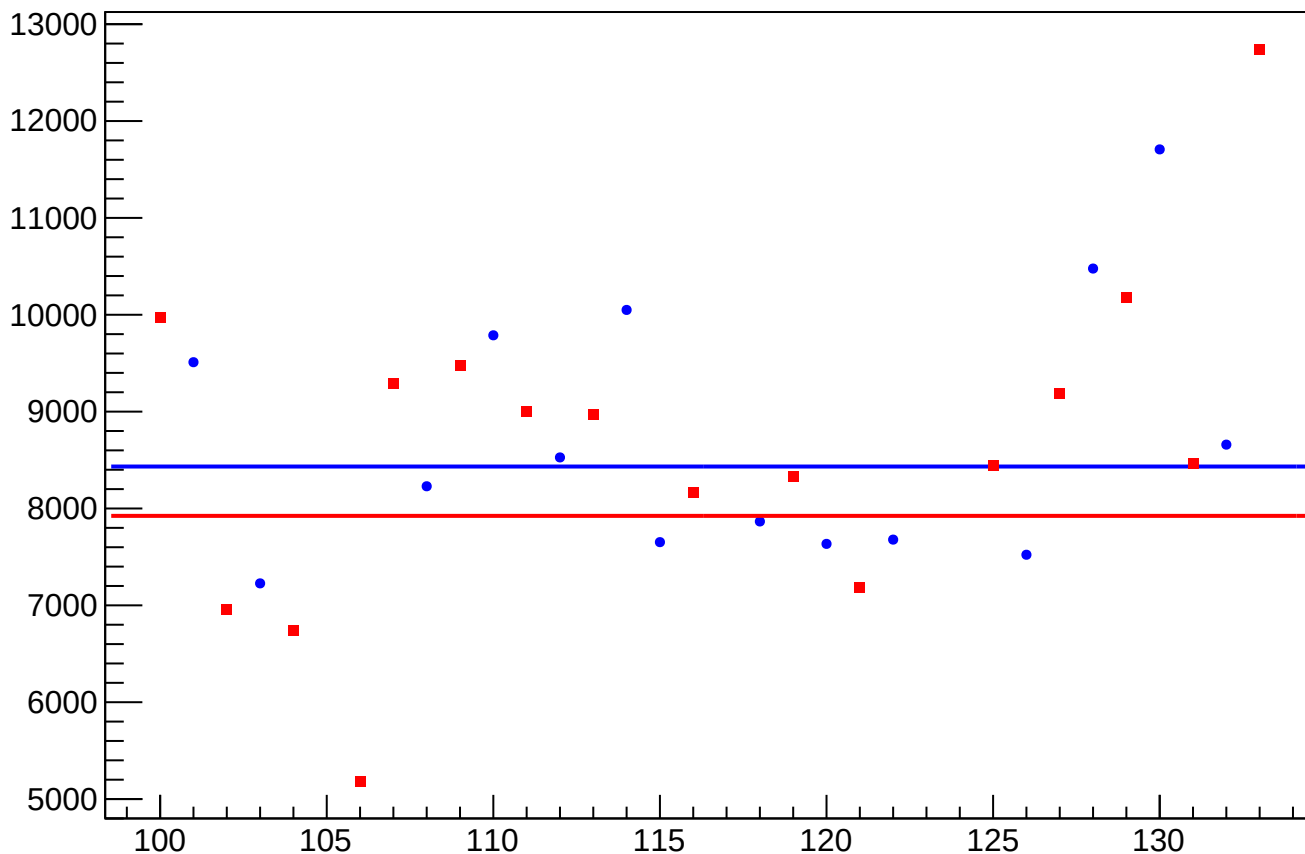
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -614.607+/-2339.973  $\chi^2/\text{NDF}$ : 26.6/29

- 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: 8433.236+/-2.474  $\chi^2/\text{NDF}$ : 227184.8/13

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

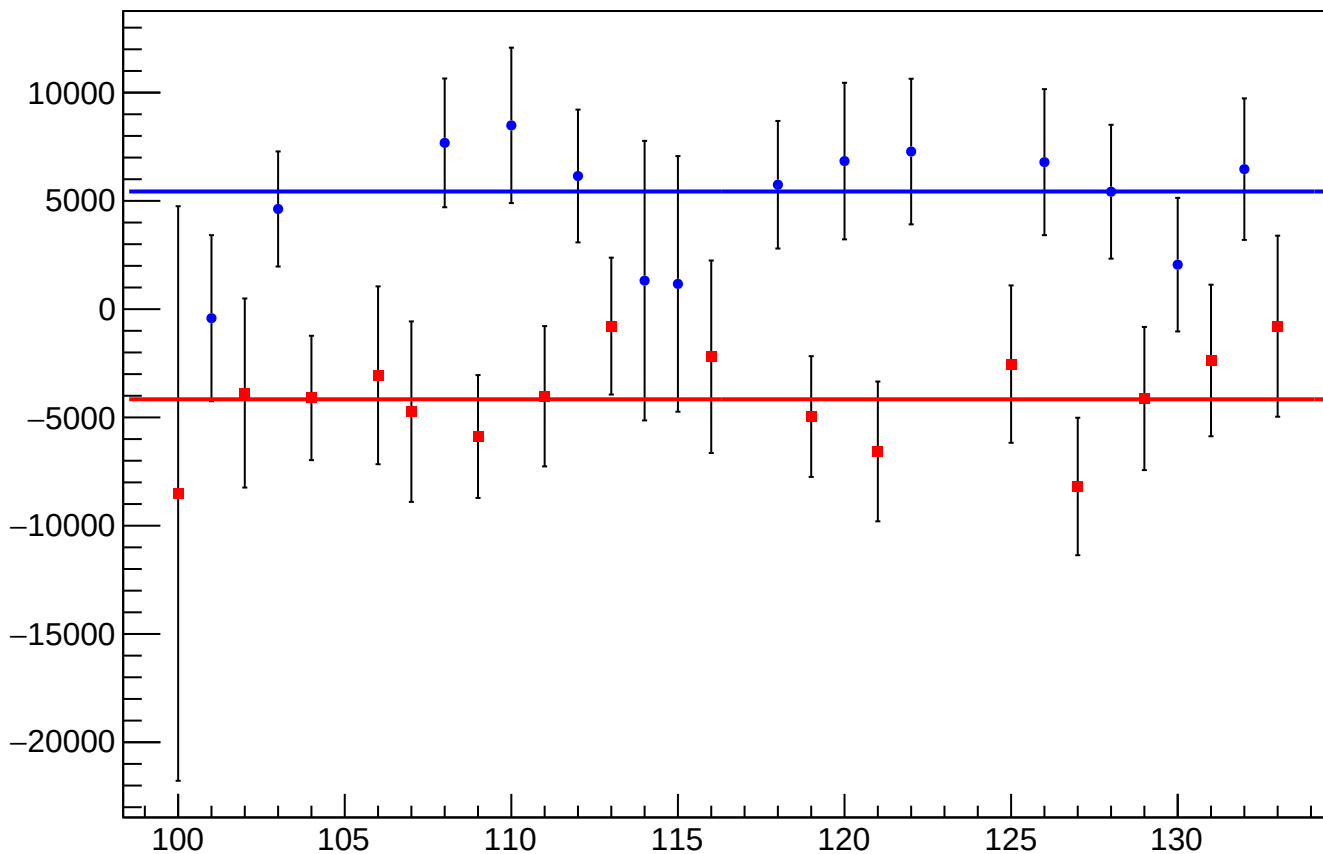
Right Out: 7923.792+/-2.225  $\chi^2/\text{NDF}$ : 514279.1/15

All: 8151.615+/-1.655  $\chi^2/\text{NDF}$ : 764899.3/29

- 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: 5433.638 $\pm$ 901.281  $\chi^2$ /NDF: 6.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4161.711 $\pm$ 878.149  $\chi^2$ /NDF: 5.3/15

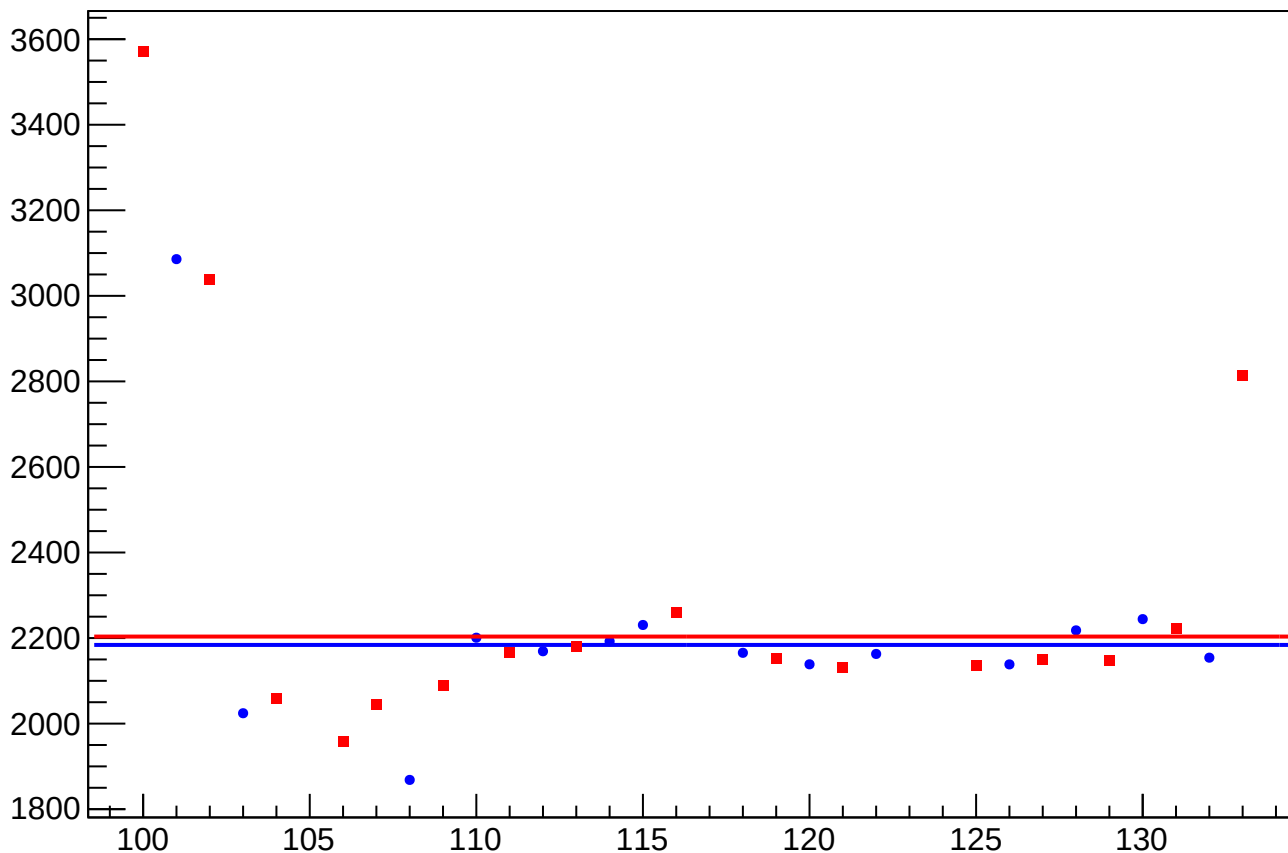
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 511.248 $\pm$ 628.964  $\chi^2$ /NDF: 70.0/29

- 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: 2183.936 $\pm$ 0.637  $\chi^2$ /NDF: 142658.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2203.488 $\pm$ 0.621  $\chi^2$ /NDF: 160010.2/15

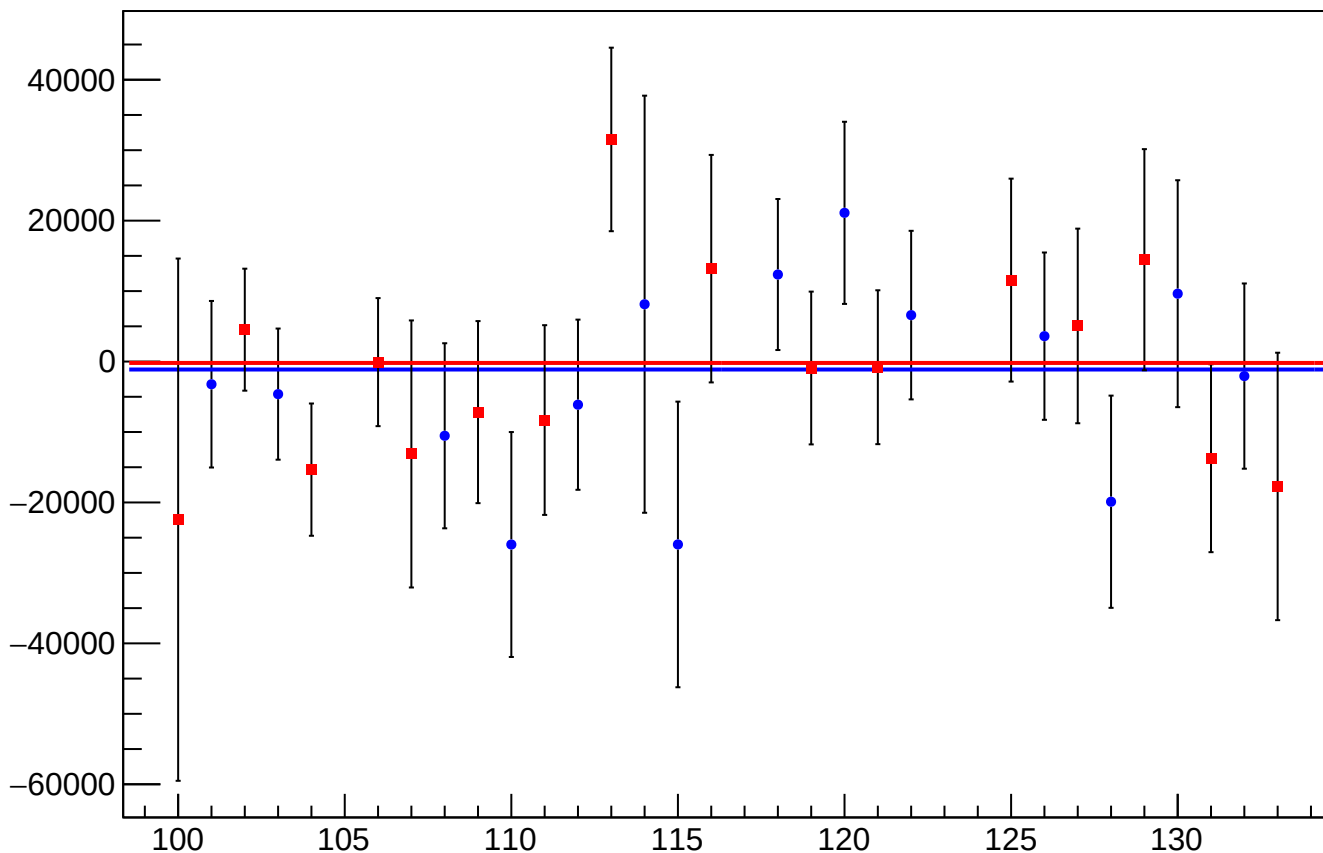
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2193.973 $\pm$ 0.445  $\chi^2$ /NDF: 303152.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In:  $-1129.863 \pm 3499.115$   $\chi^2/\text{NDF}$ : 12.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-197.773 \pm 3147.211$   $\chi^2/\text{NDF}$ : 14.6/15

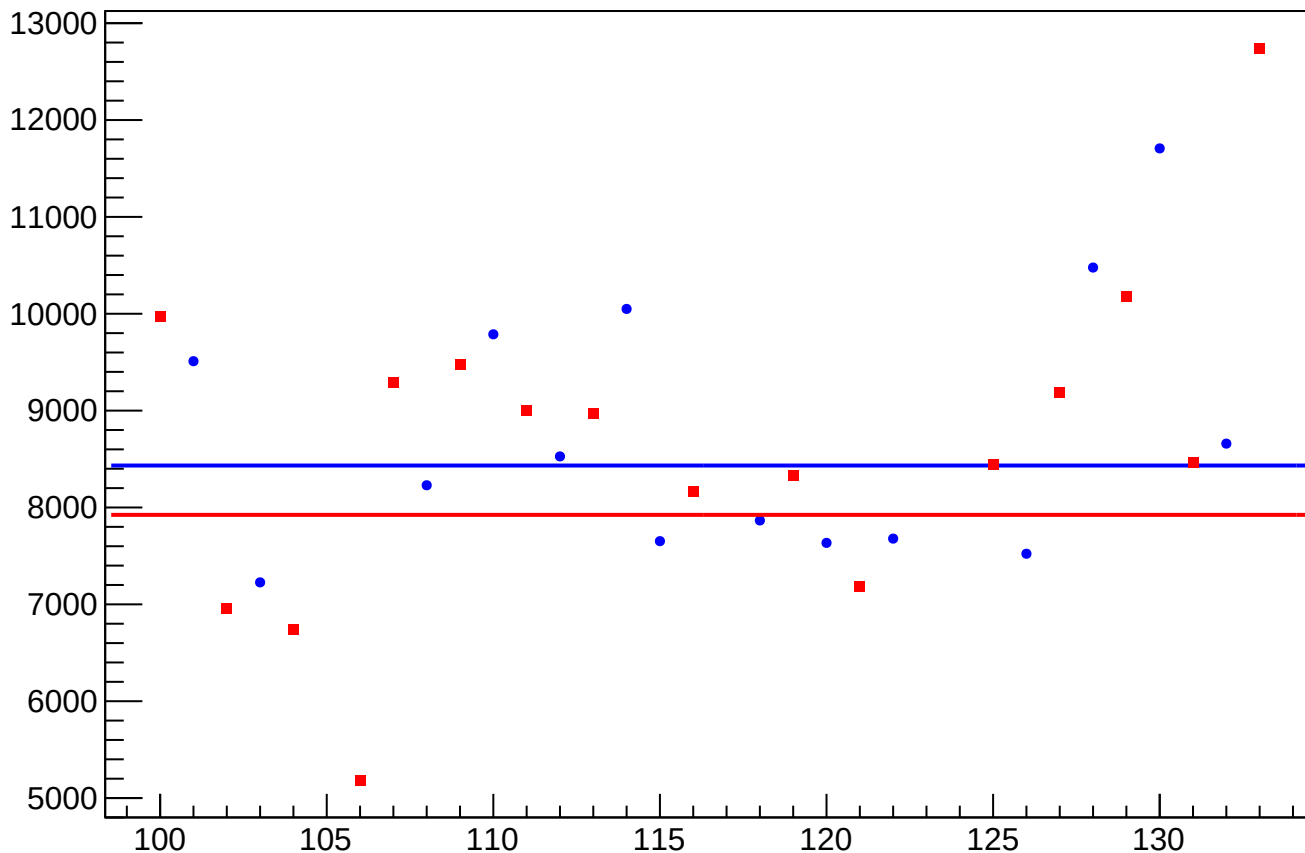
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-614.604 \pm 2339.966$   $\chi^2/\text{NDF}$ : 26.6/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 8433.211+/-2.474  $\chi^2/\text{NDF}$ : 227184.5/13

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: 7923.772+/-2.225  $\chi^2/\text{NDF}$ : 514275.5/15

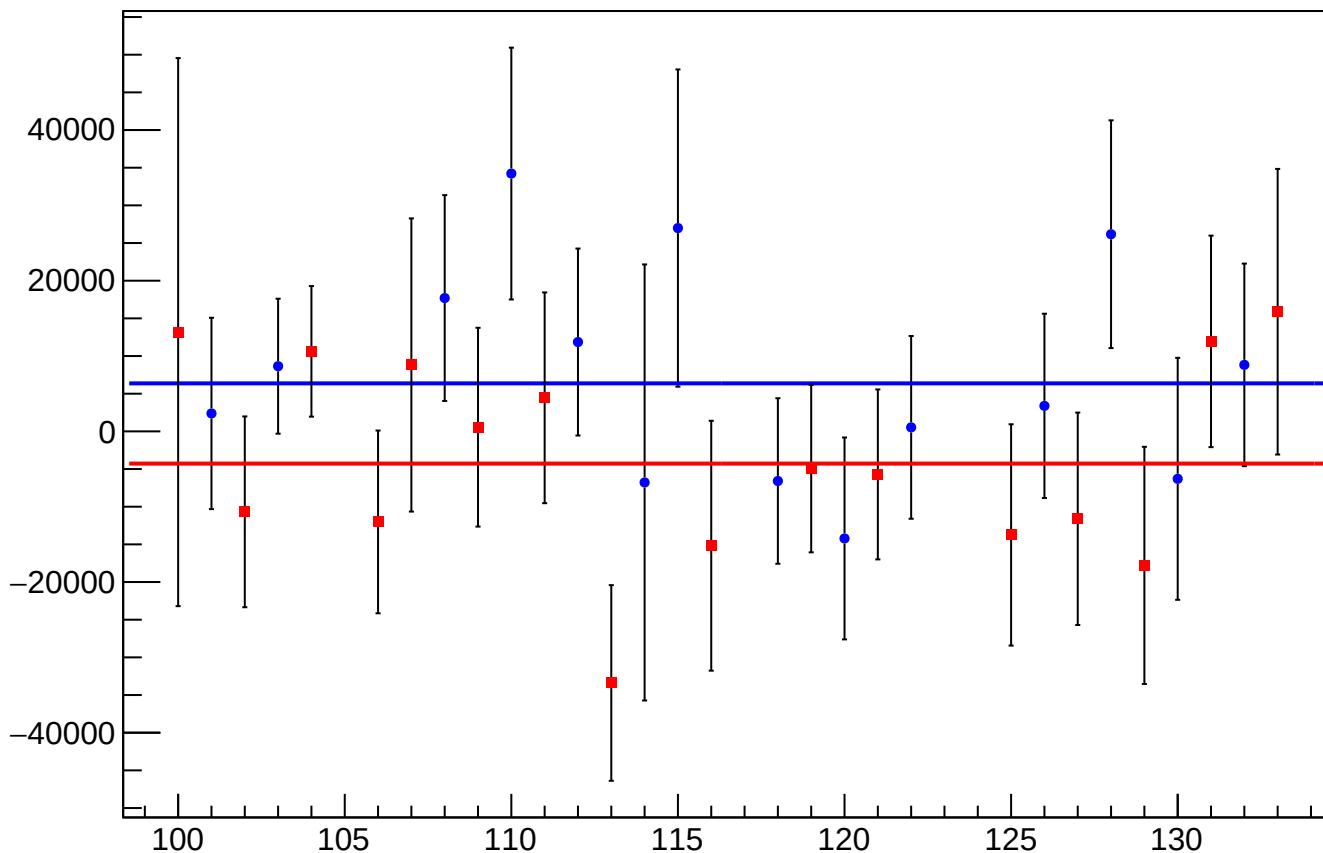
All: 8151.594+/-1.655  $\chi^2/\text{NDF}$ : 764895.1/29

- 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\_mean vs Slug



Right In: 6371.194+/-3565.407  $\chi^2/\text{NDF}$ : 11.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4277.450+/-3377.511  $\chi^2/\text{NDF}$ : 14.2/15

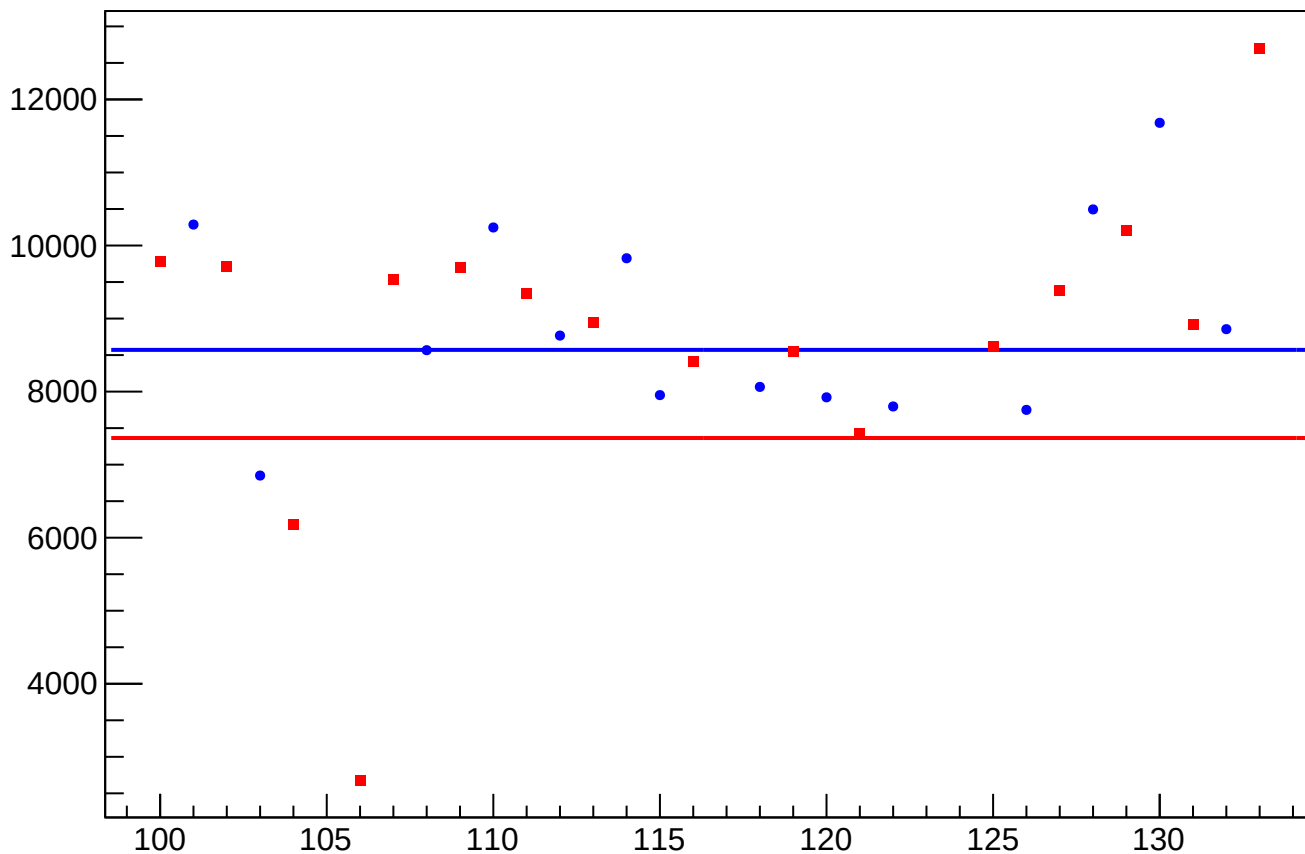
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 758.899+/-2451.997  $\chi^2/\text{NDF}$ : 30.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug



Right In: 8571.346 $\pm$ 2.521  $\chi^2$ /NDF: 270729.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 7364.761 $\pm$ 2.204  $\chi^2$ /NDF: 1576136.4/15

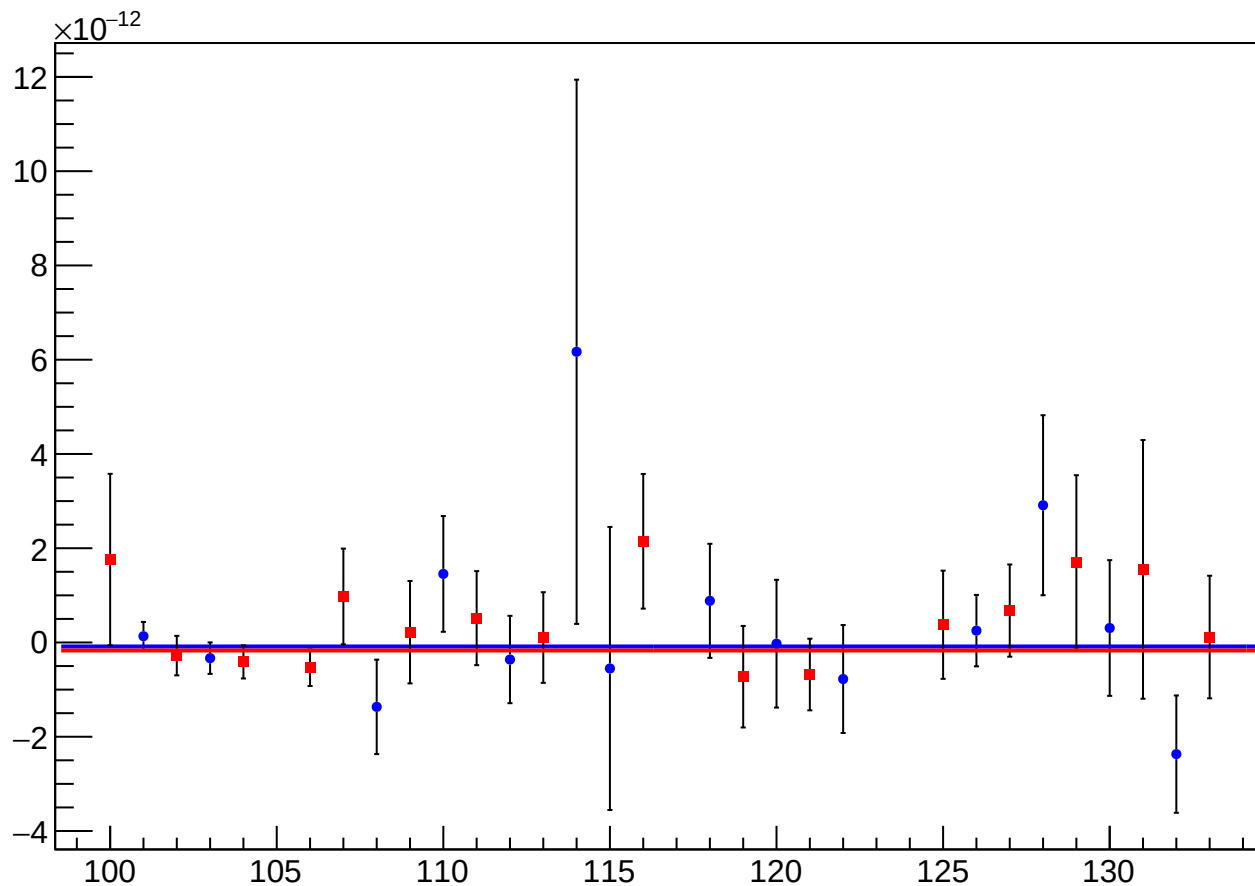
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7887.431 $\pm$ 1.659  $\chi^2$ /NDF: 1976699.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.3/15

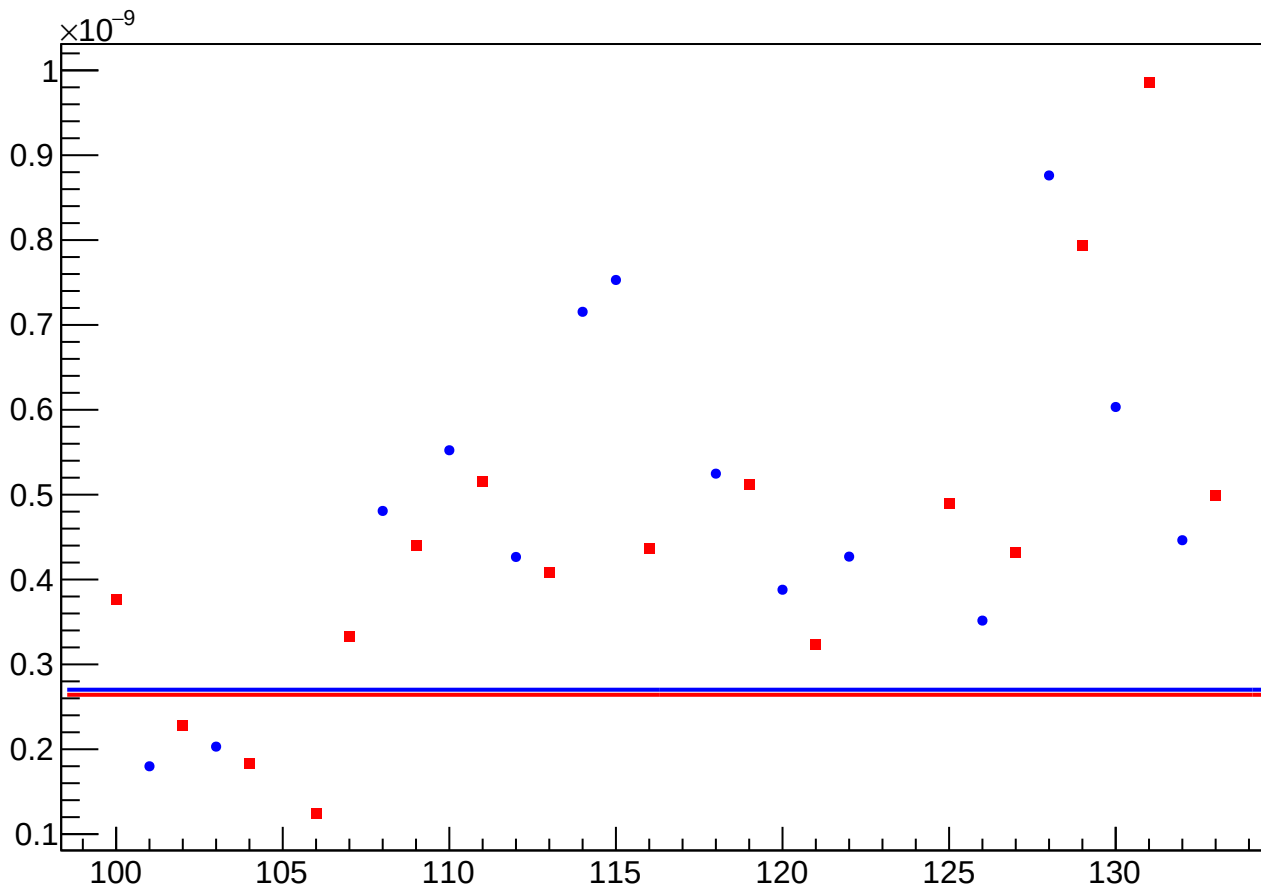
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 23.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1085602.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1274027.1/15

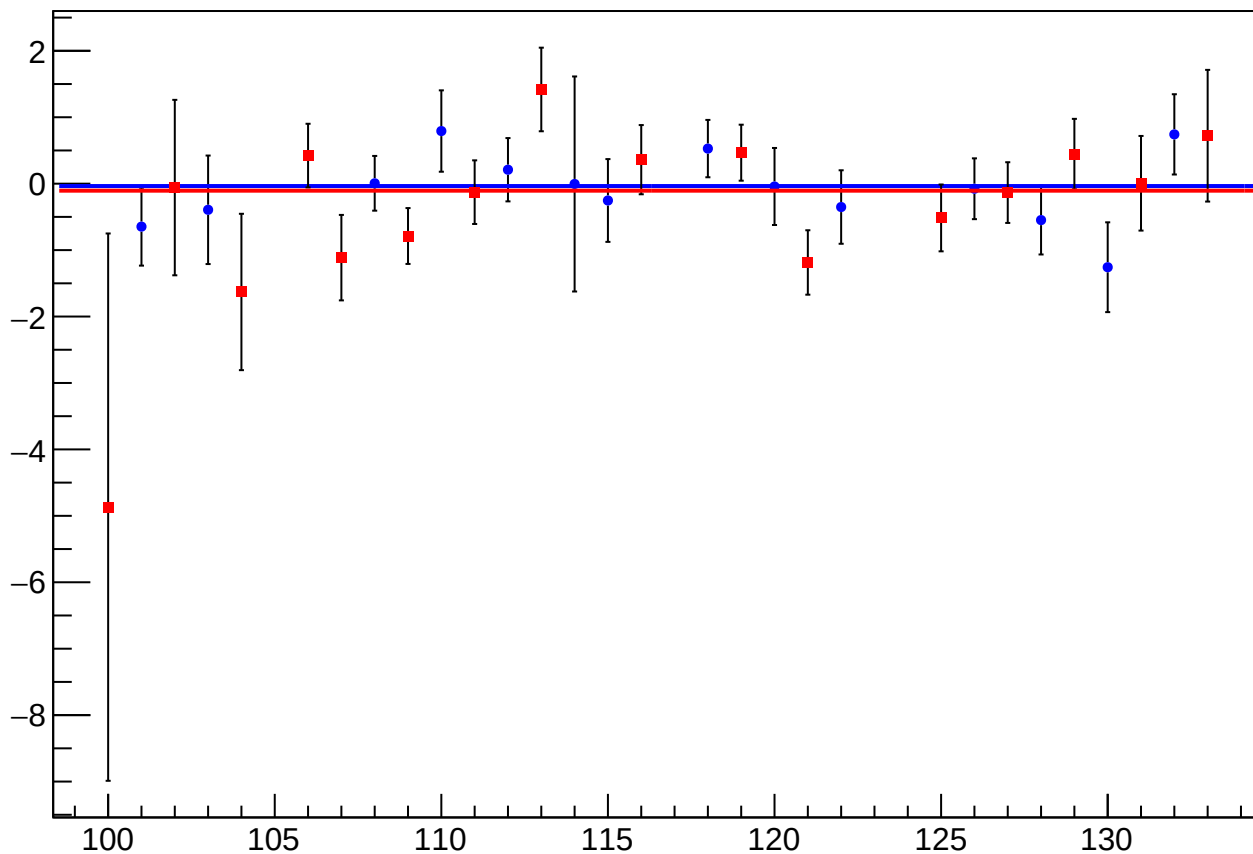
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2360677.4/29

- 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: -0.036+/-0.148  $\chi^2/\text{NDF}$ : 11.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.105+/-0.142  $\chi^2/\text{NDF}$ : 25.3/15

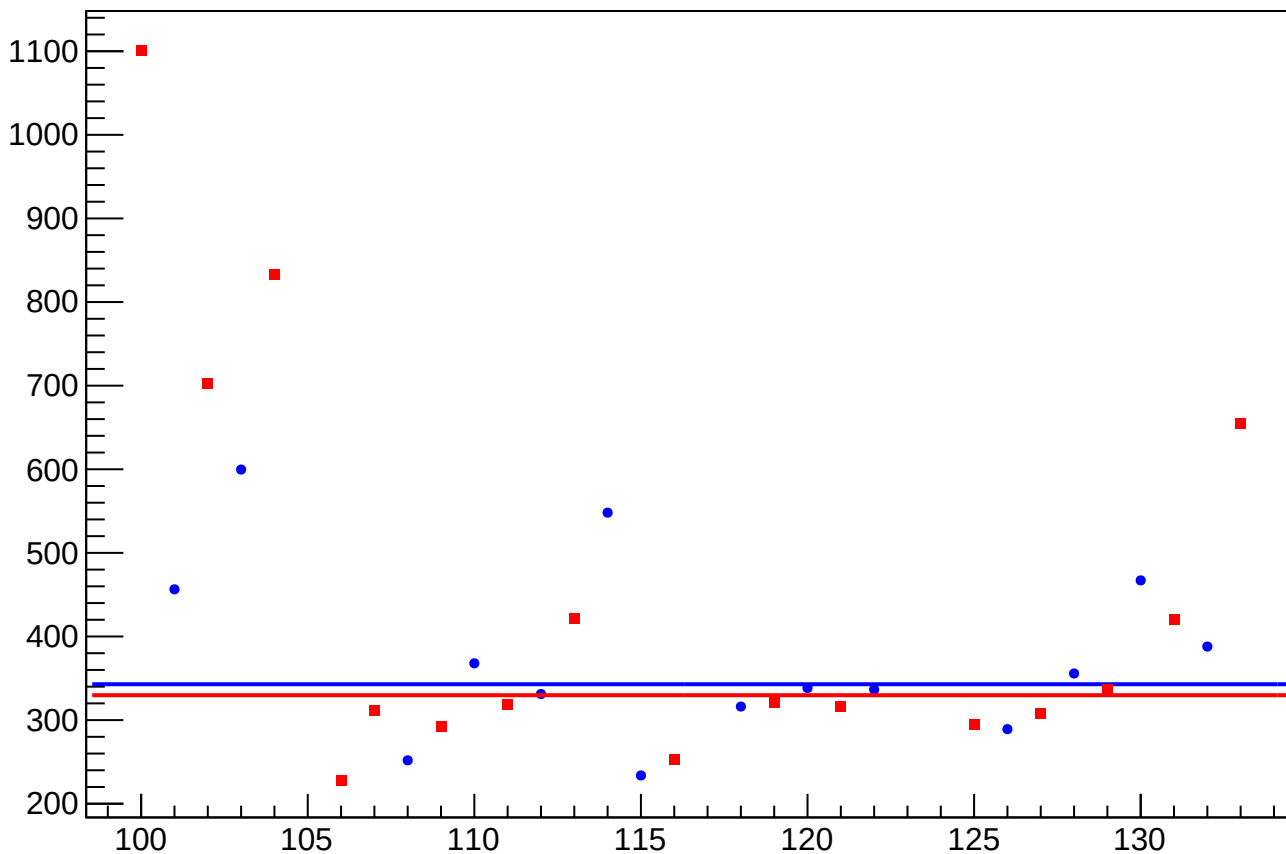
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.072+/-0.103  $\chi^2/\text{NDF}$ : 36.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 342.886 $\pm$ 0.105  $\chi^2$ /NDF: 583710.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 329.769 $\pm$ 0.100  $\chi^2$ /NDF: 1055294.3/15

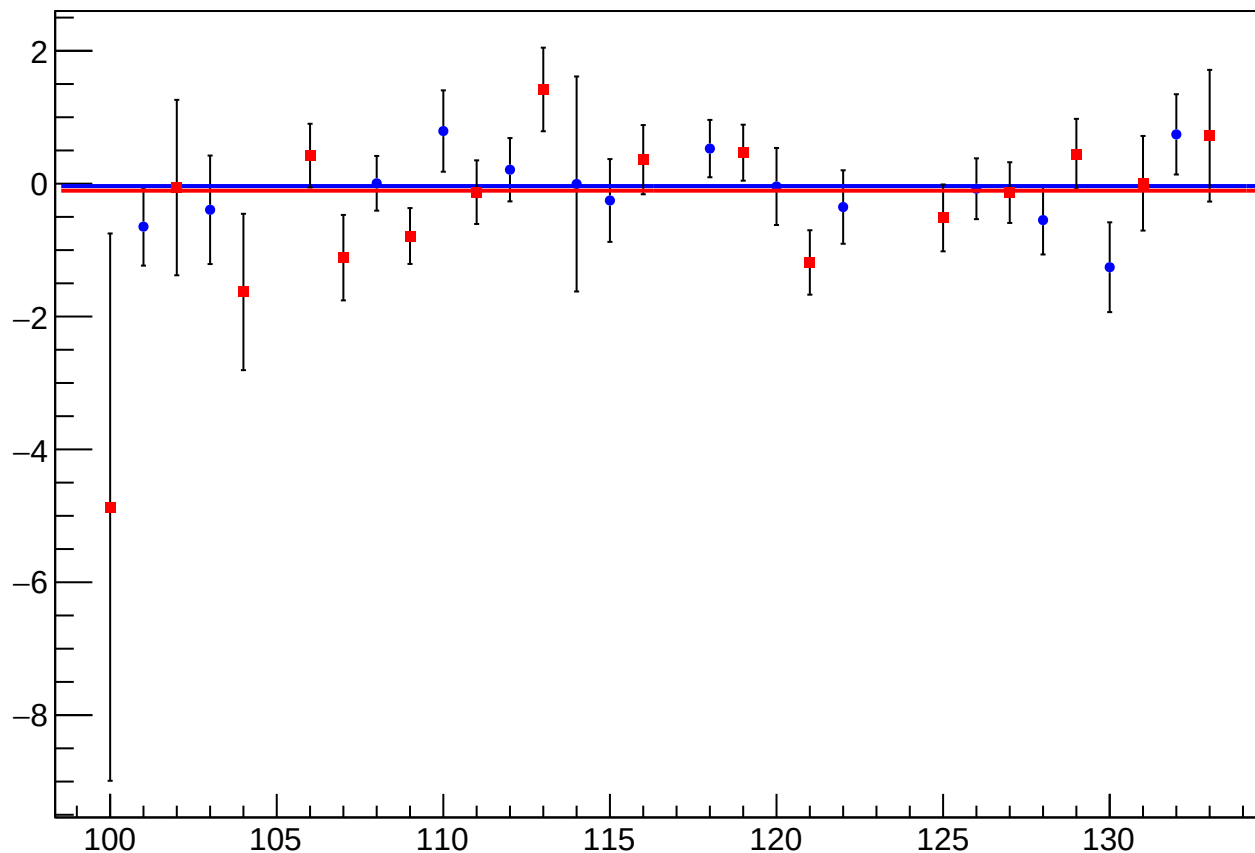
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 336.040 $\pm$ 0.073  $\chi^2$ /NDF: 1647152.1/29

- 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: -0.036+/-0.148  $\chi^2/\text{NDF}$ : 11.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.105+/-0.142  $\chi^2/\text{NDF}$ : 25.3/15

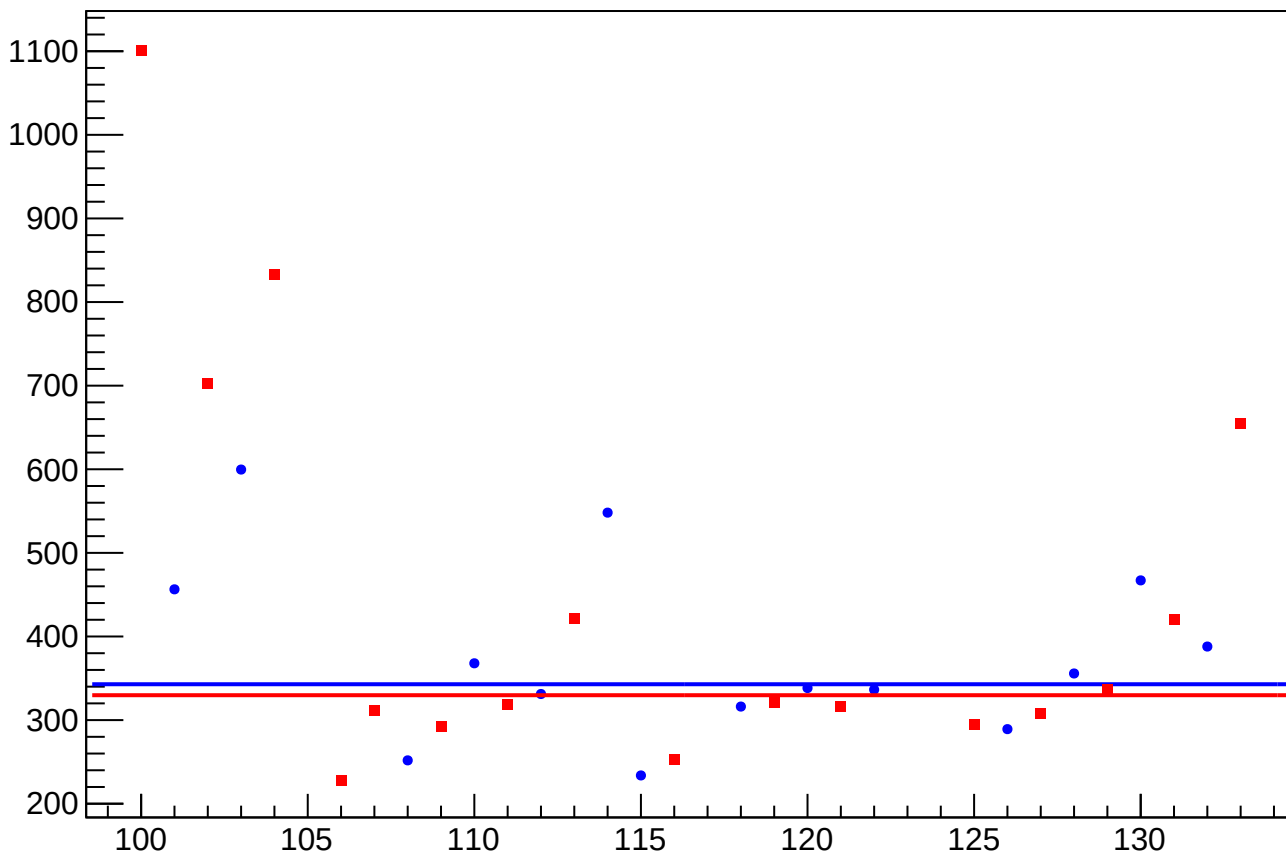
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.072+/-0.103  $\chi^2/\text{NDF}$ : 36.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 342.886 $\pm$ 0.105  $\chi^2$ /NDF: 583710.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 329.769 $\pm$ 0.100  $\chi^2$ /NDF: 1055294.3/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

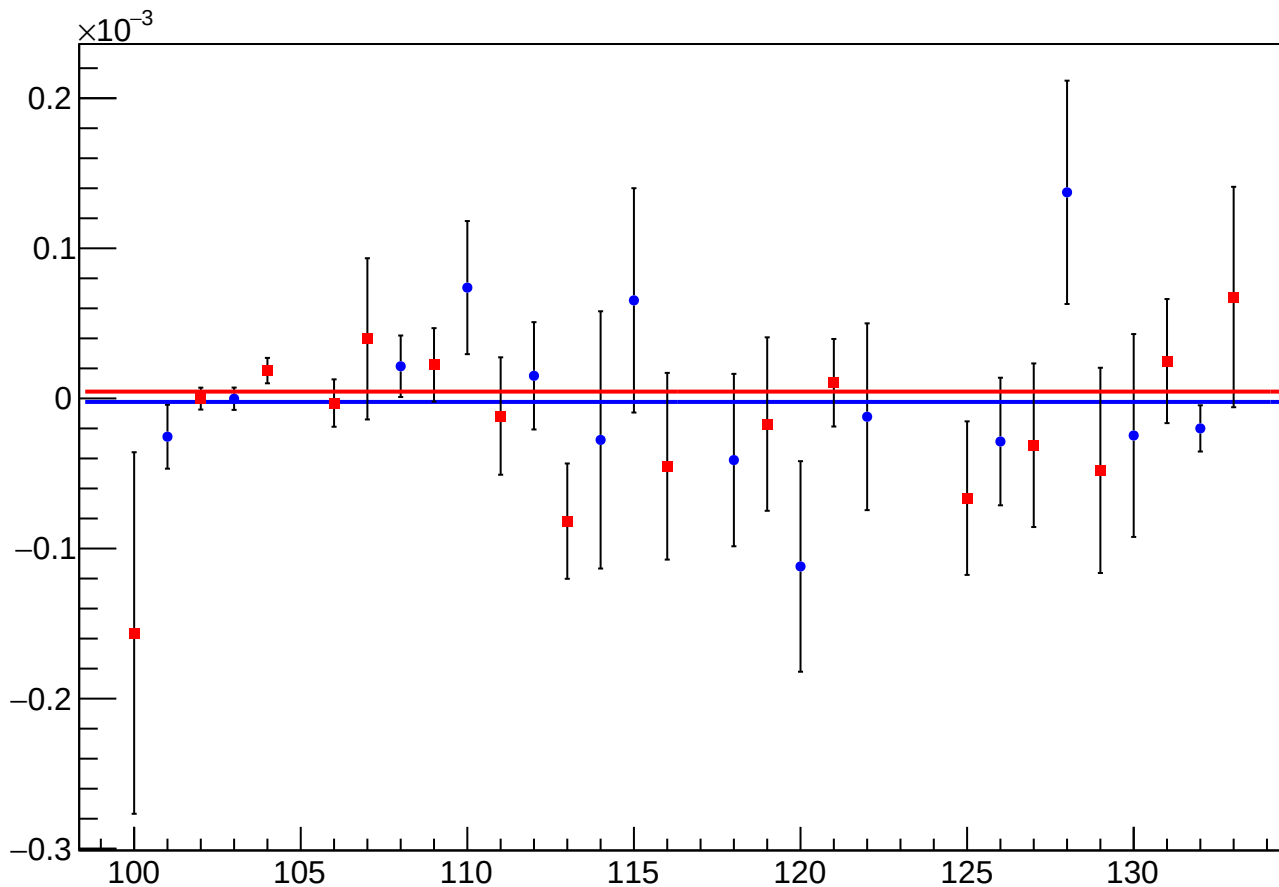
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 336.040 $\pm$ 0.073  $\chi^2$ /NDF: 1647152.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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: 15.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.1/15

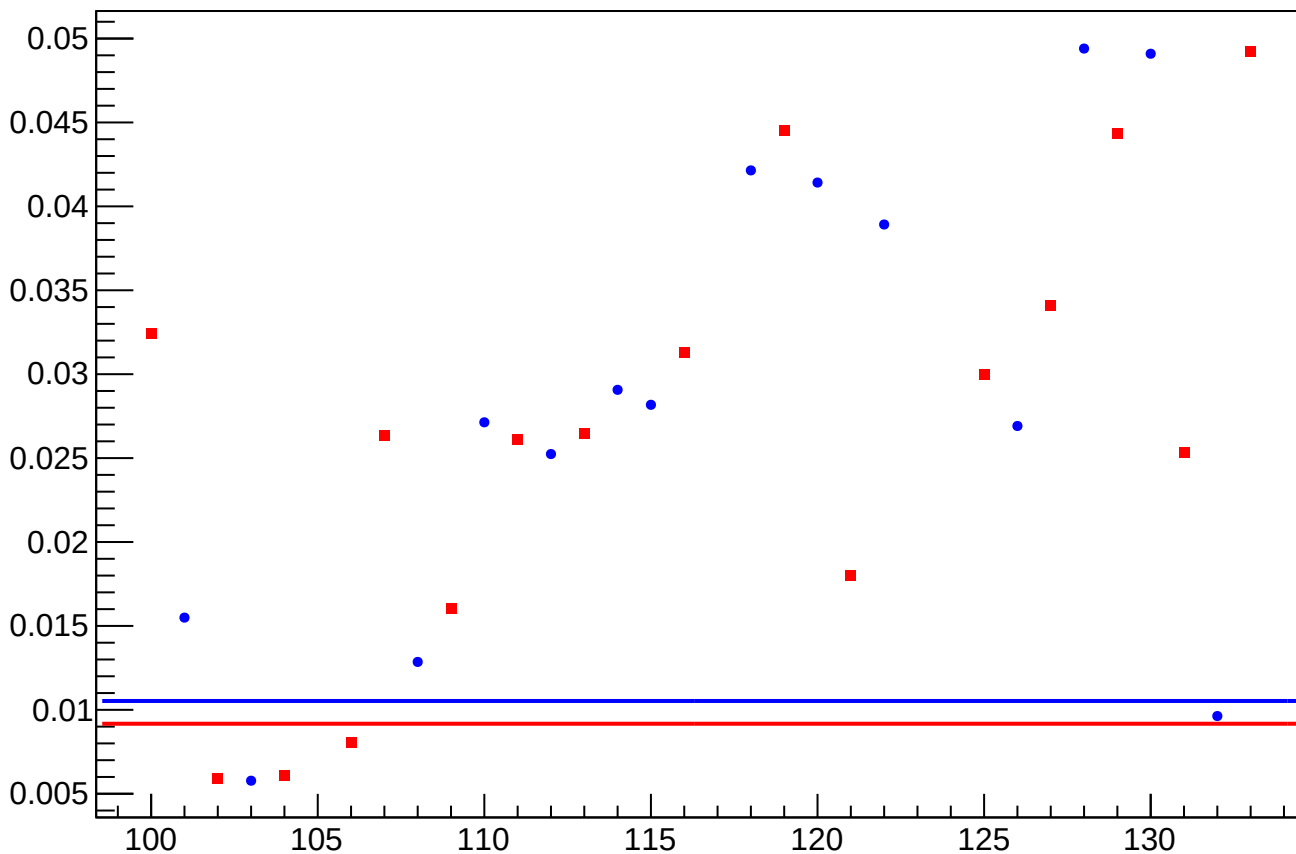
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 31.9/29

- 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: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 4689381.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 5261723.2/15

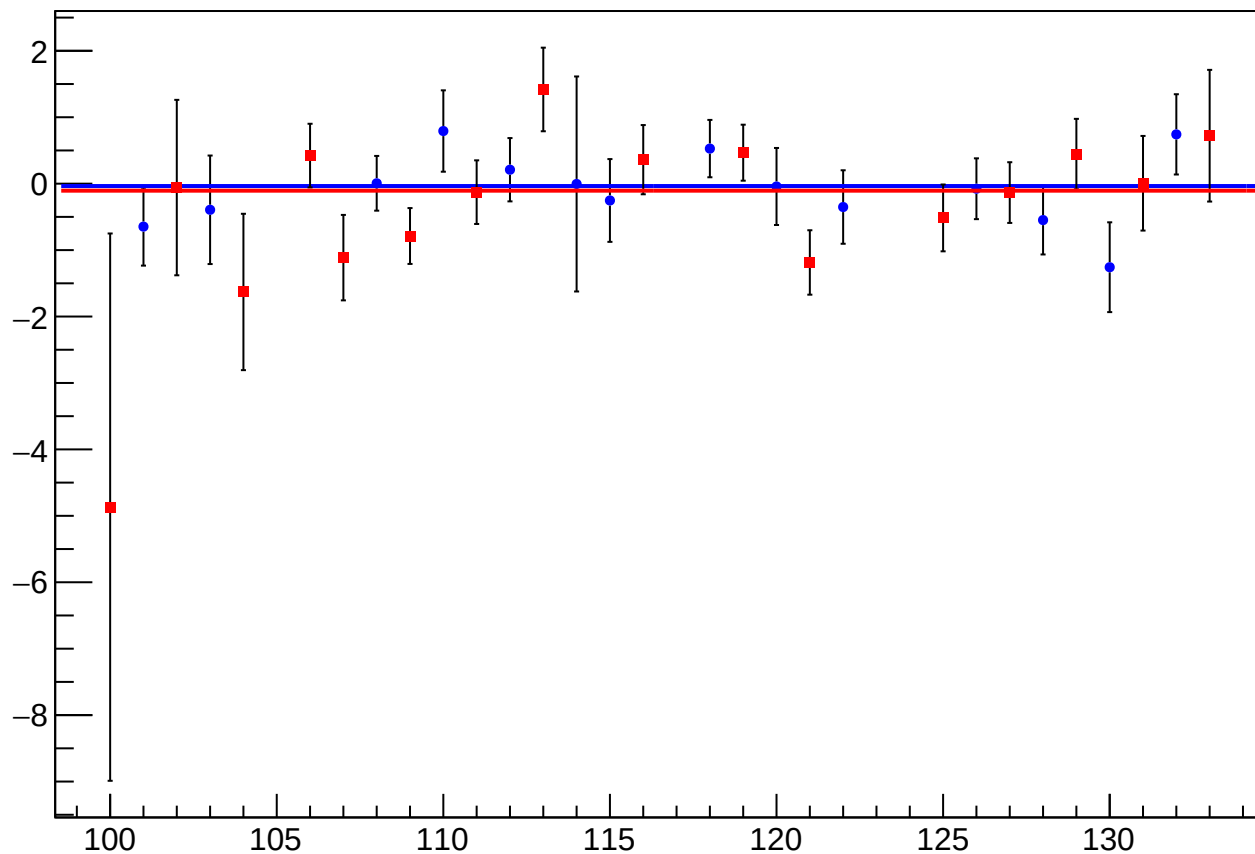
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 10016755.1/29

- 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: -0.036 $\pm$ 0.148  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.105 $\pm$ 0.142  $\chi^2$ /NDF: 25.3/15

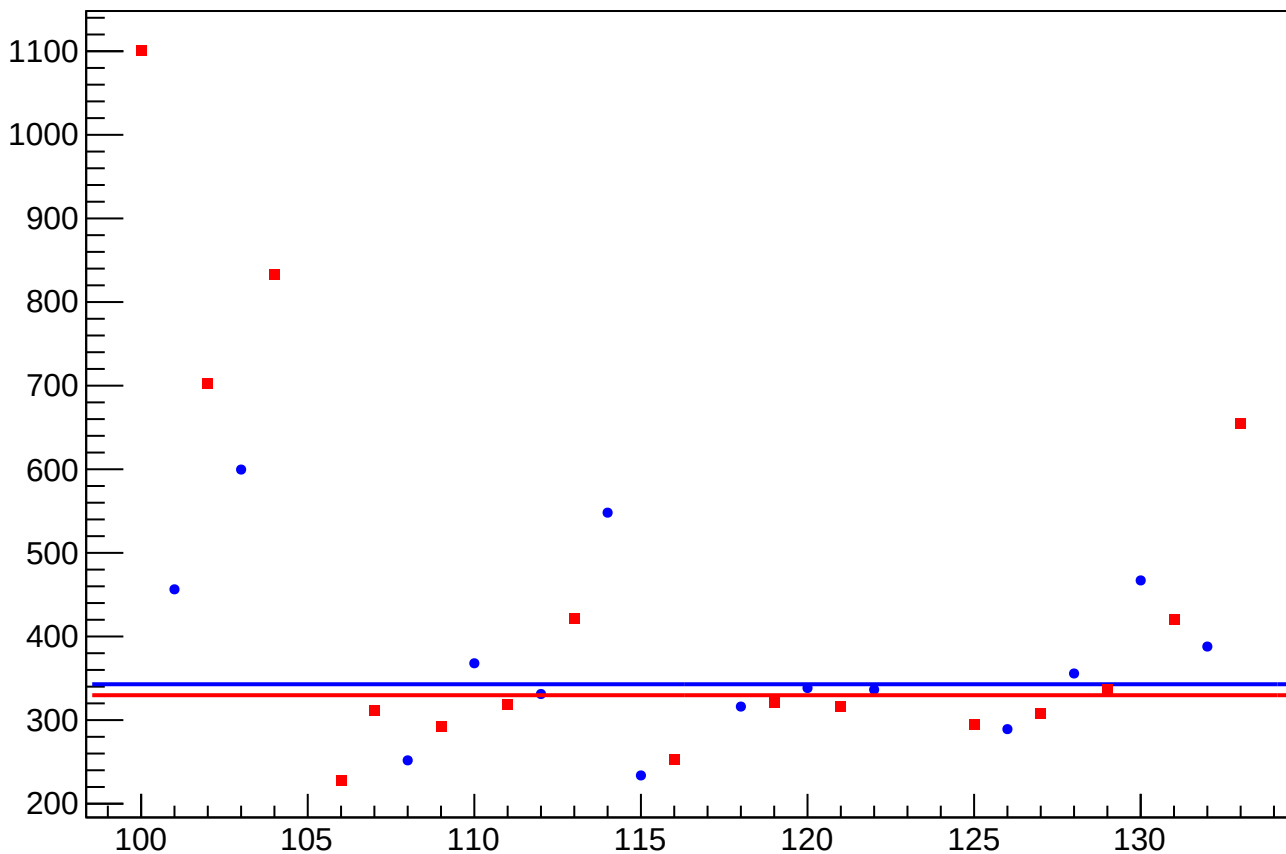
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.072 $\pm$ 0.103  $\chi^2$ /NDF: 36.8/29

- 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: 342.884 $\pm$ 0.105  $\chi^2$ /NDF: 583656.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 329.767 $\pm$ 0.100  $\chi^2$ /NDF: 1055257.3/15

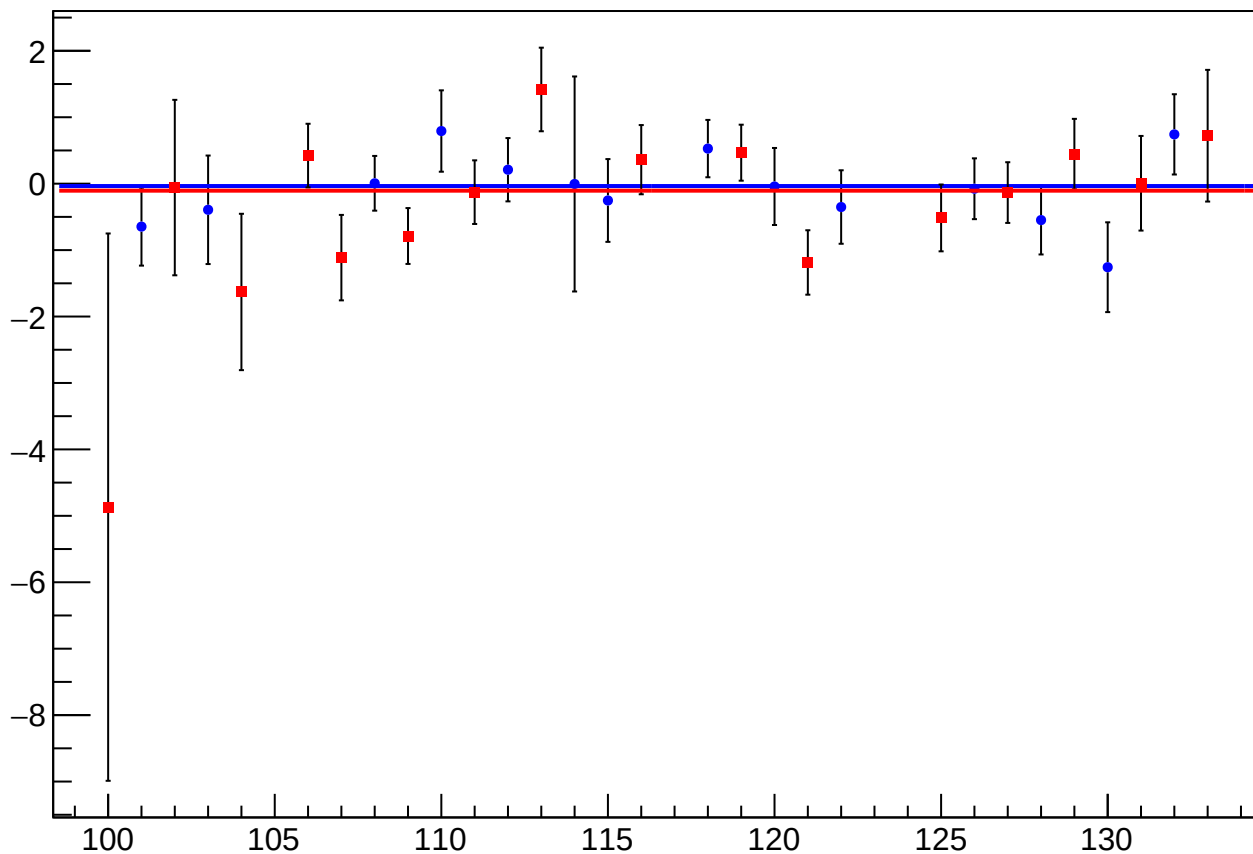
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 336.038 $\pm$ 0.073  $\chi^2$ /NDF: 1647061.9/29

- 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: -0.036+/-0.148  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.105+/-0.142  $\chi^2$ /NDF: 25.3/15

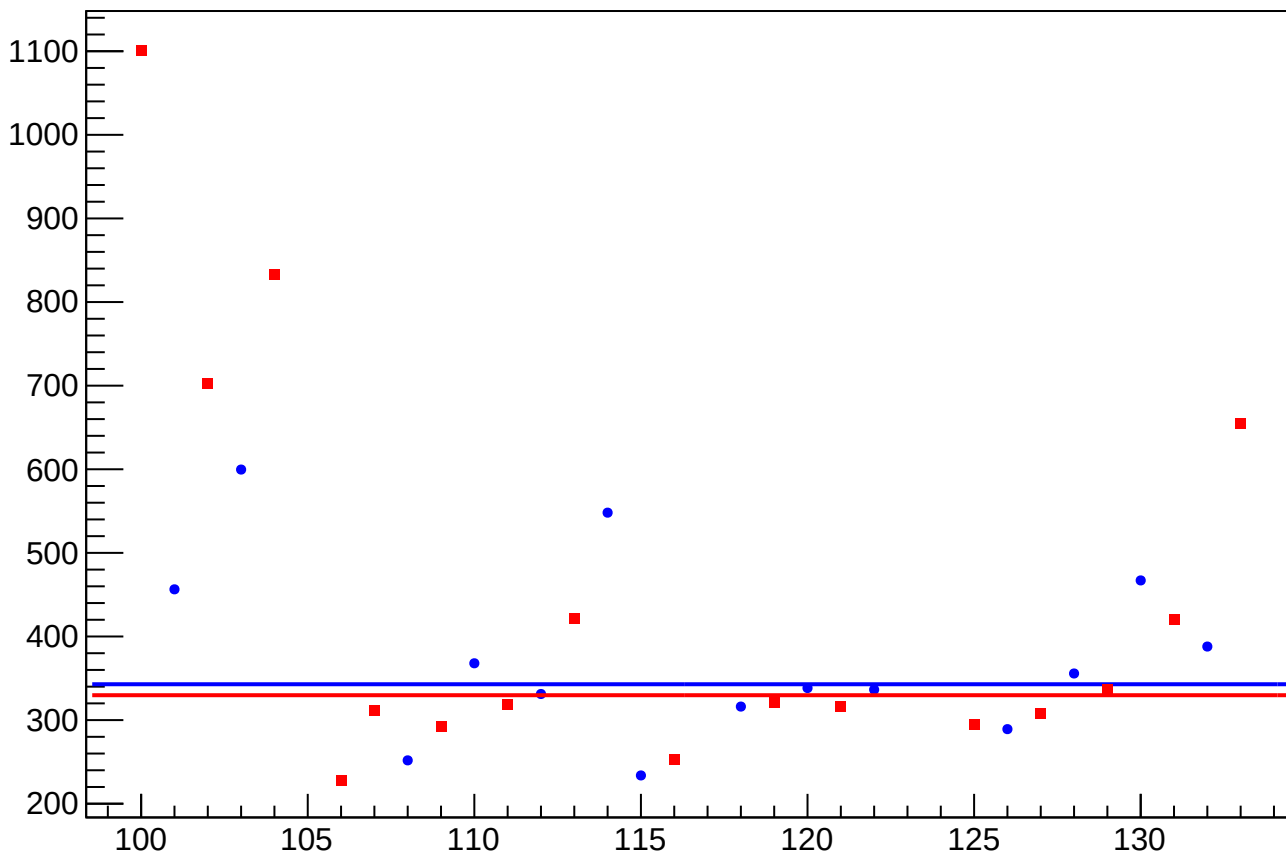
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.072+/-0.103  $\chi^2$ /NDF: 36.8/29

- sign 0.000+/-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: 342.884 $\pm$ 0.105  $\chi^2$ /NDF: 583656.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 329.767 $\pm$ 0.100  $\chi^2$ /NDF: 1055257.3/15

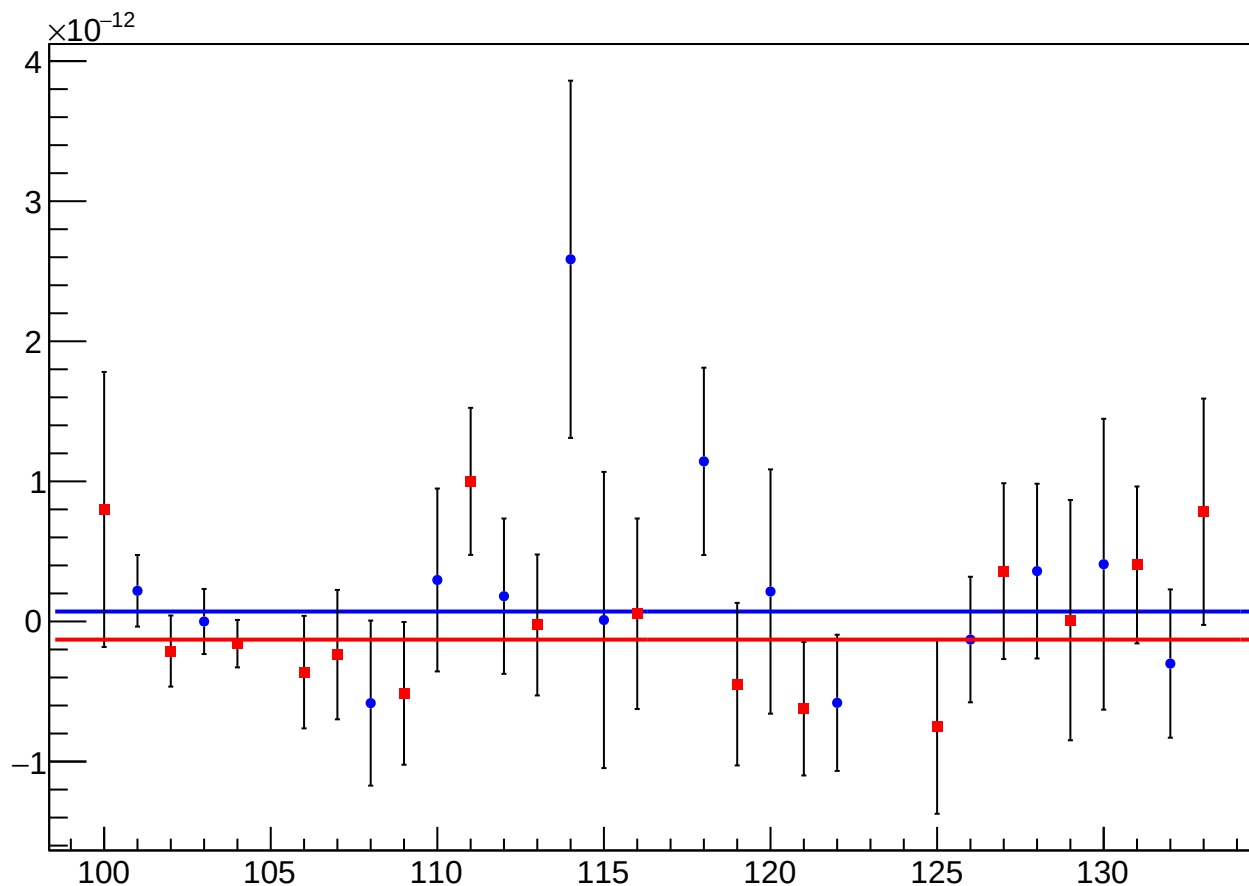
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 336.038 $\pm$ 0.073  $\chi^2$ /NDF: 1647061.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 11.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 11.9/15

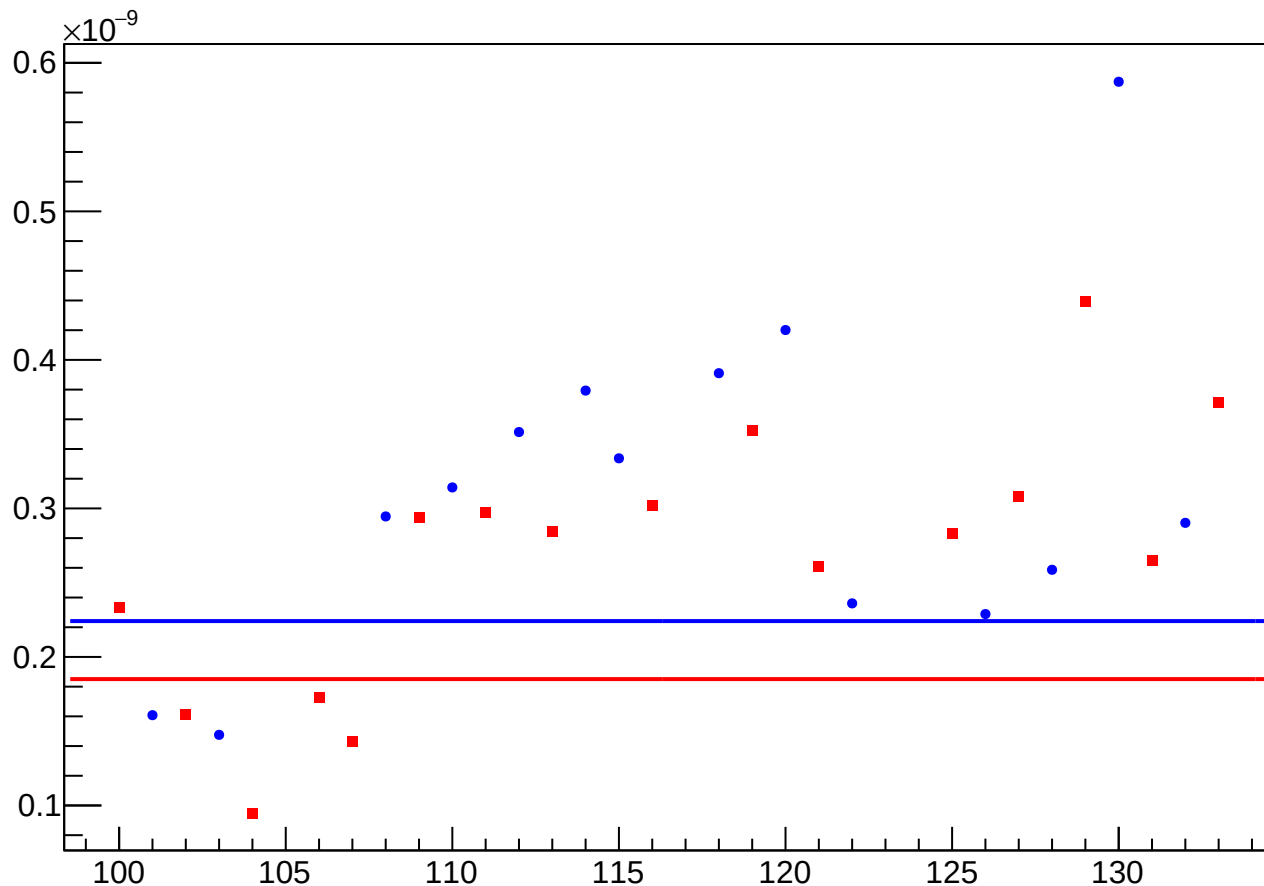
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 24.5/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1072540.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1598120.6/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

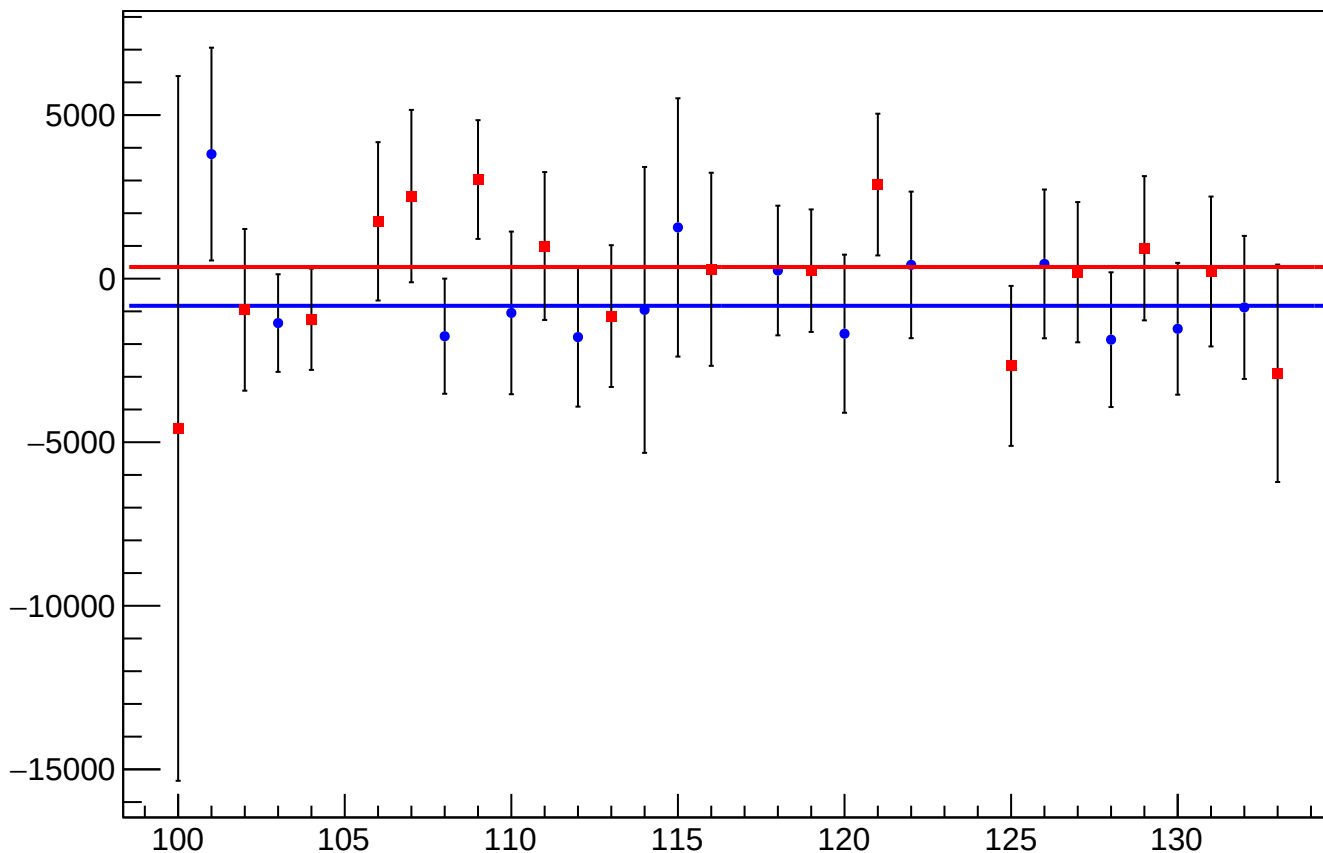
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2786744.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In:  $-830.095 \pm 589.681$   $\chi^2/\text{NDF}$ : 4.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $355.892 \pm 567.868$   $\chi^2/\text{NDF}$ : 9.2/15

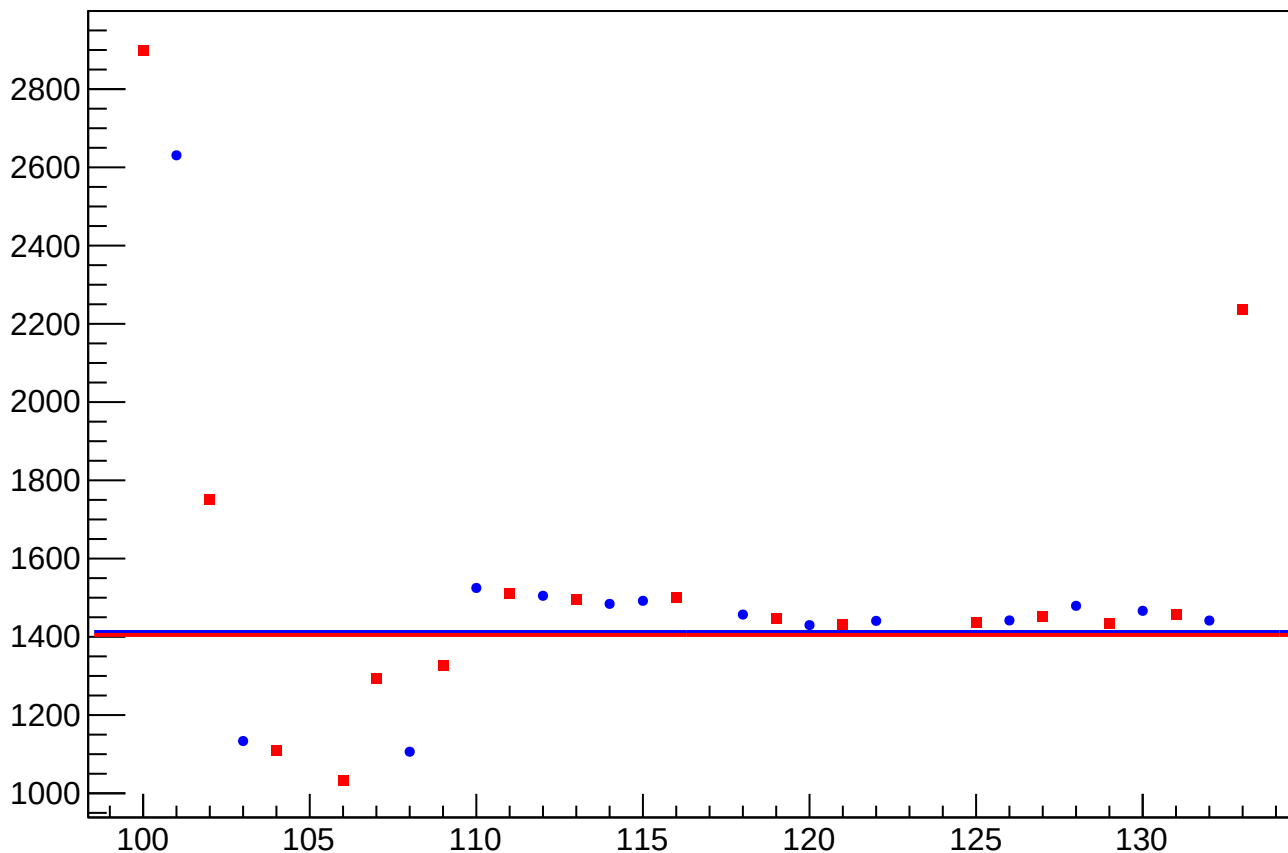
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-214.761 \pm 409.037$   $\chi^2/\text{NDF}$ : 15.8/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1412.229+/-0.417  $\chi^2/\text{NDF}$ : 425948.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1404.857+/-0.398  $\chi^2/\text{NDF}$ : 357734.1/15

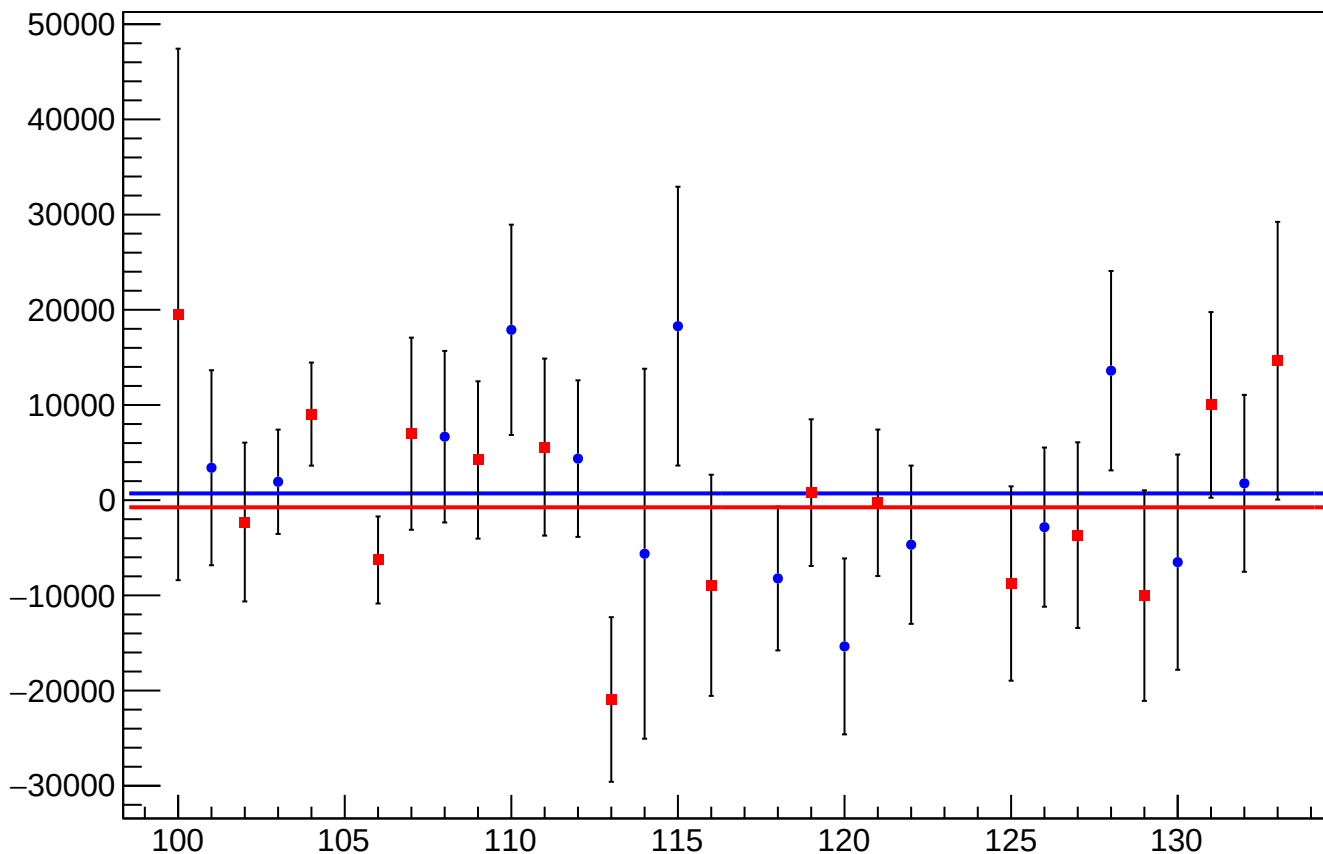
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1408.375+/-0.288  $\chi^2/\text{NDF}$ : 783845.8/29

- 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: 710.676+/-2411.279  $\chi^2/\text{NDF}$ : 11.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -747.118+/-2077.334  $\chi^2/\text{NDF}$ : 16.4/15

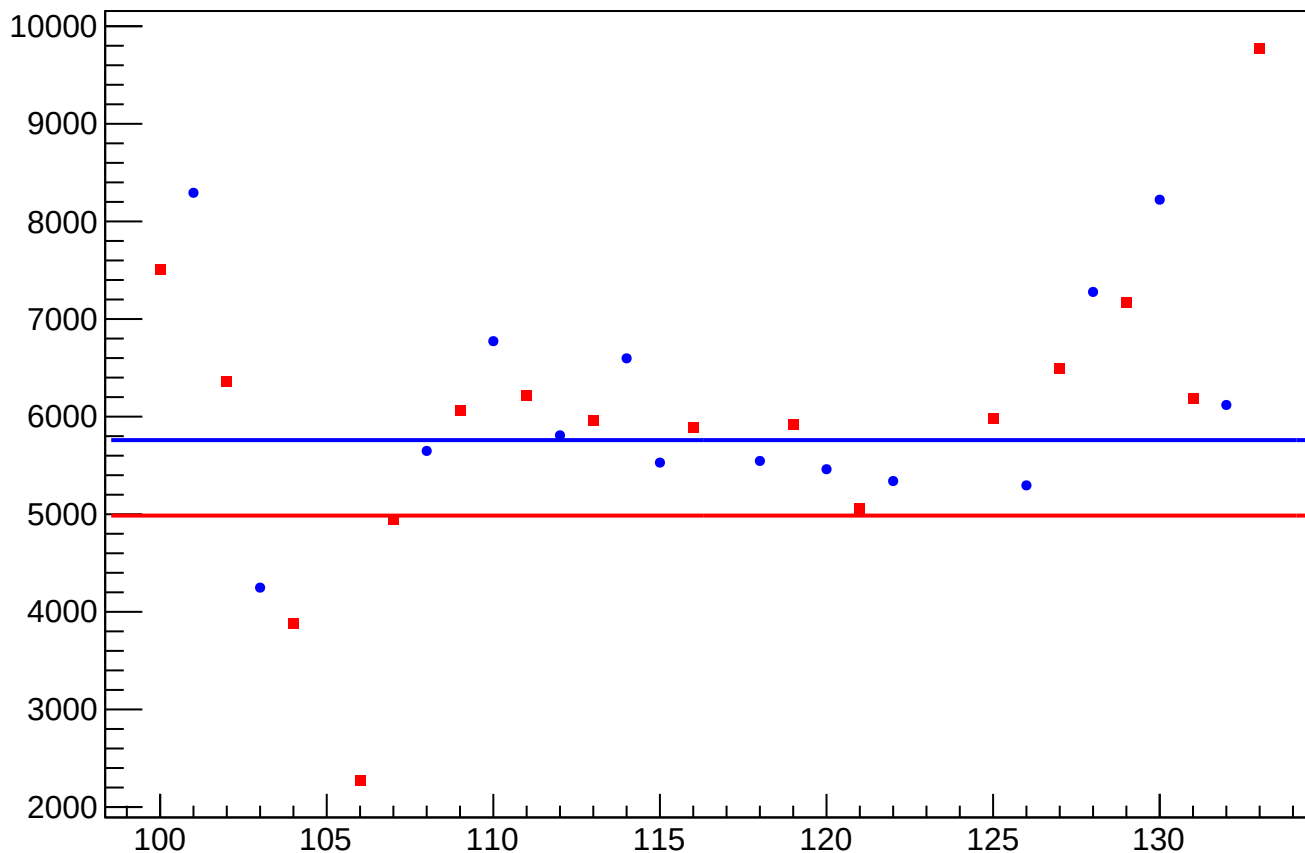
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -126.082+/-1573.831  $\chi^2/\text{NDF}$ : 28.3/29

- 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: 5759.345 $\pm$ 1.705  $\chi^2$ /NDF: 450977.2/13

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

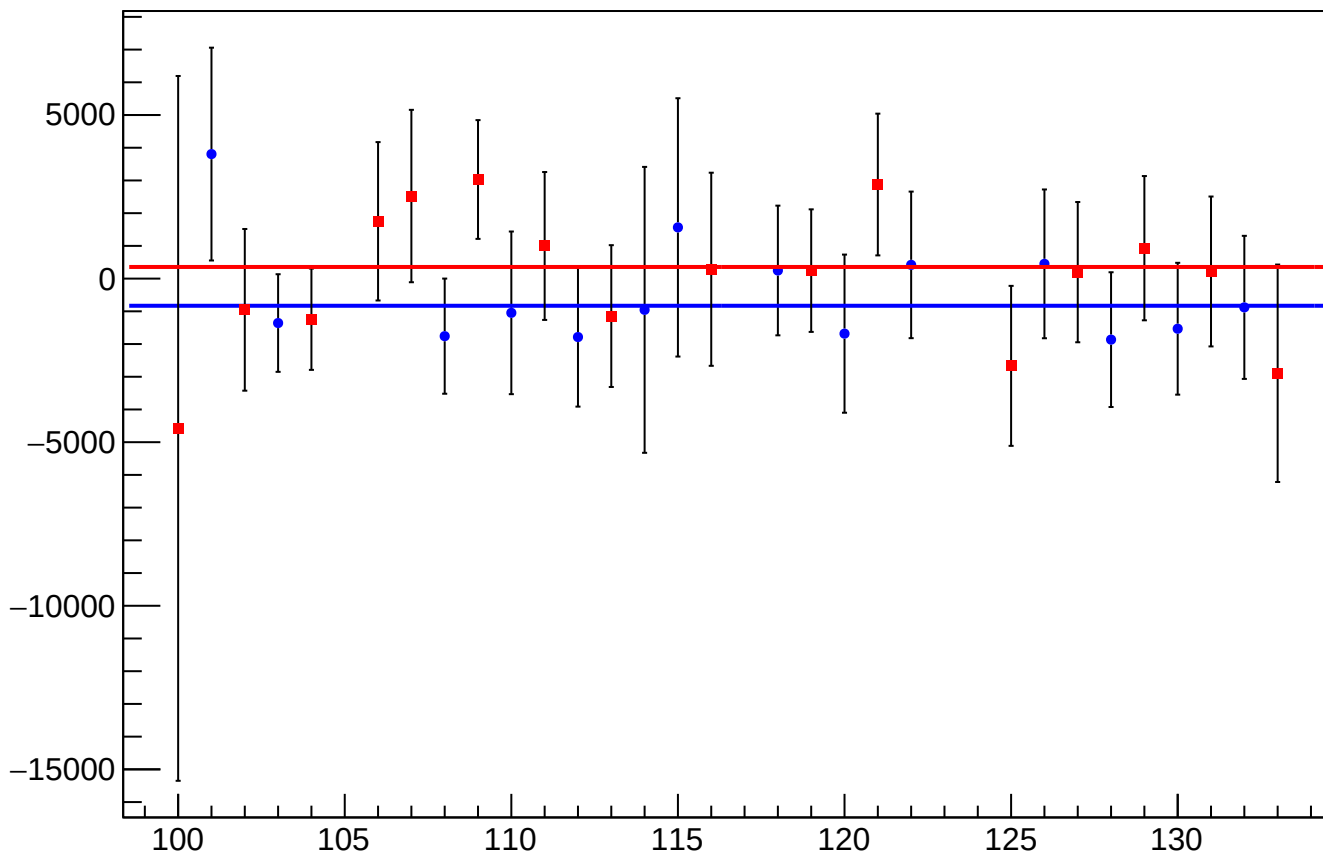
Right Out: 4986.280 $\pm$ 1.469  $\chi^2$ /NDF: 1385165.0/15

All: 5315.614 $\pm$ 1.113  $\chi^2$ /NDF: 1954139.0/29

- 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\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In: -830.169+/-589.681  $\chi^2/\text{NDF}$ : 4.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 355.699+/-567.868  $\chi^2/\text{NDF}$ : 9.2/15

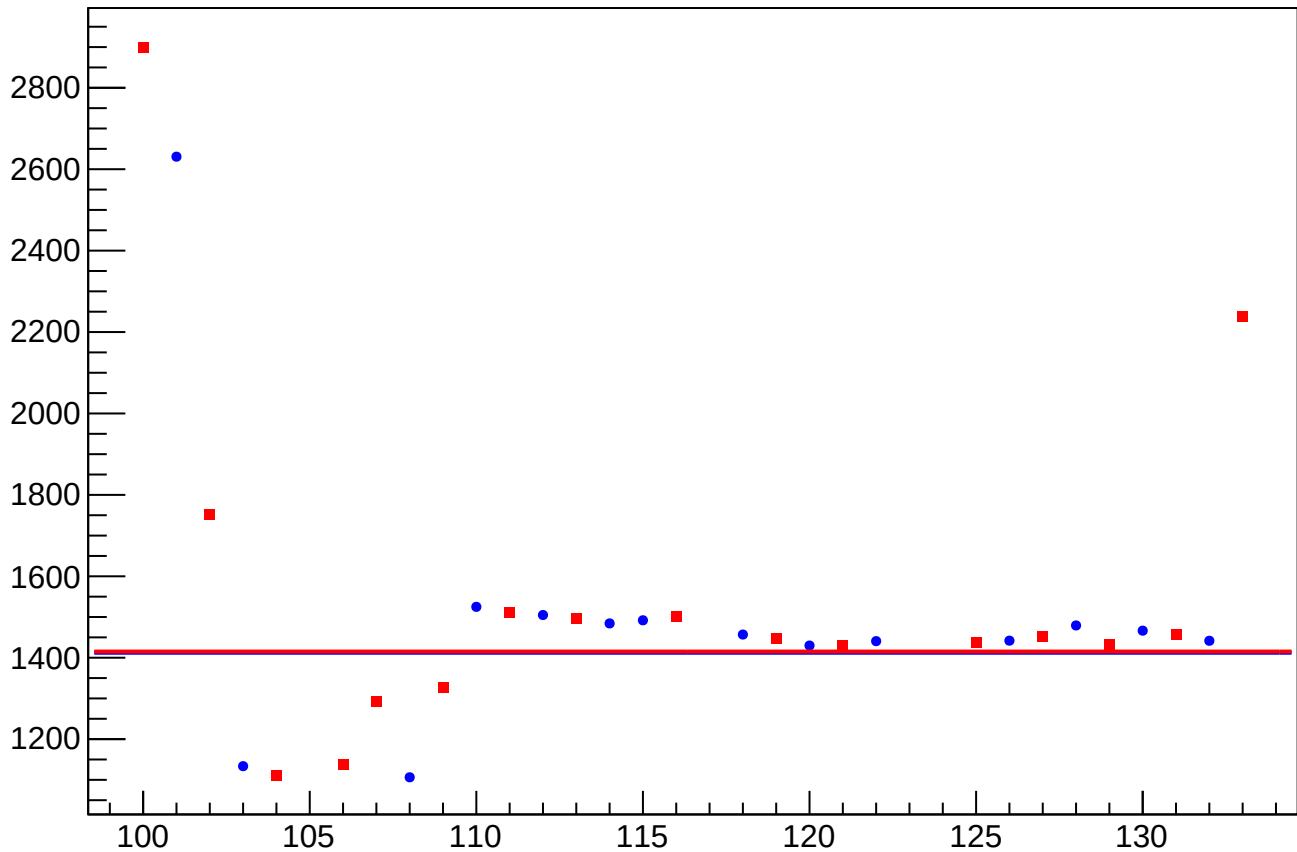
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -214.897+/-409.037  $\chi^2/\text{NDF}$ : 15.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1412.229+/-0.417  $\chi^2/\text{NDF}$ : 425948.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1415.144+/-0.401  $\chi^2/\text{NDF}$ : 322948.5/15

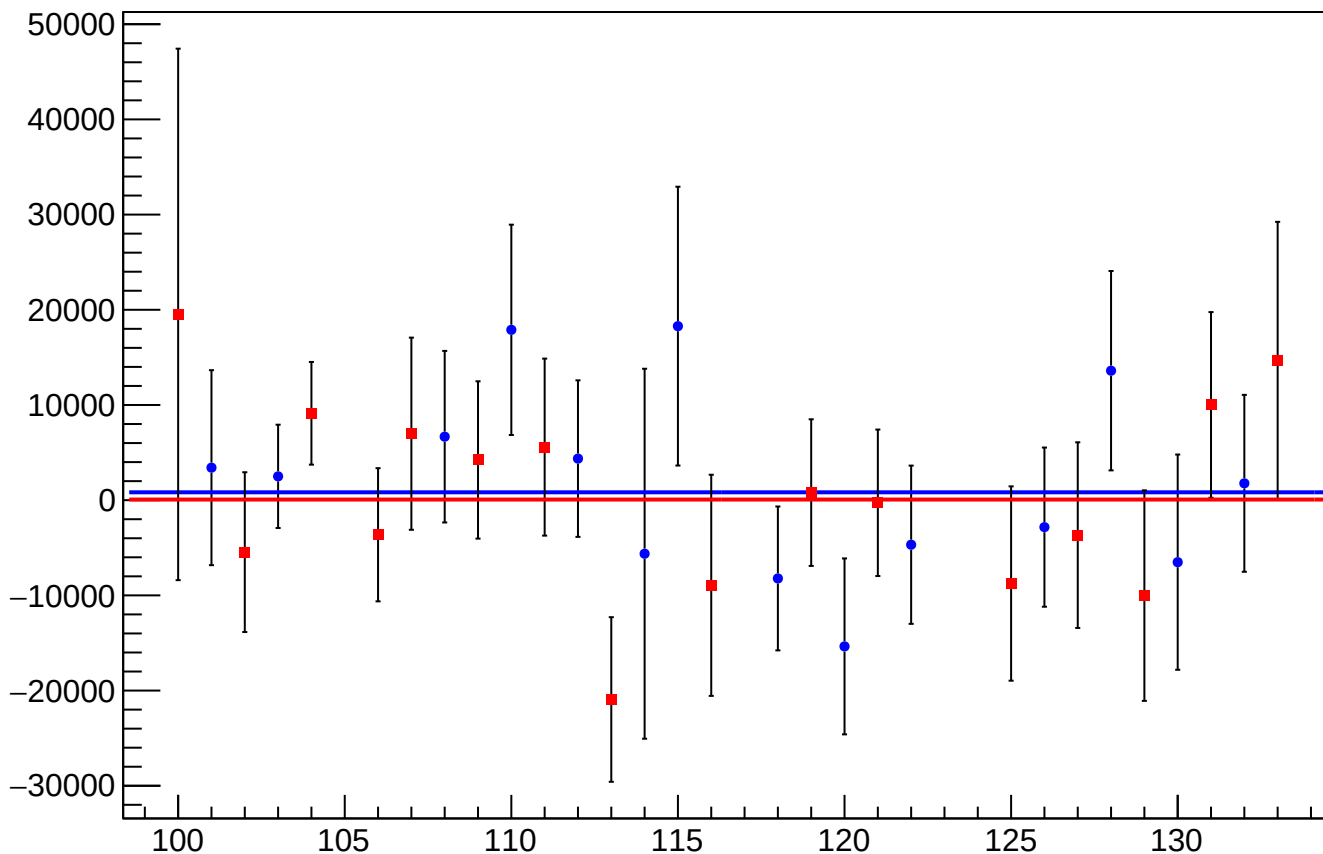
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1413.745+/-0.289  $\chi^2/\text{NDF}$ : 748922.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_cor\_correction\_mean vs Slug



Right In: 827.894 $\pm$ 2406.753  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.397 $\pm$ 2211.952  $\chi^2$ /NDF: 15.4/15

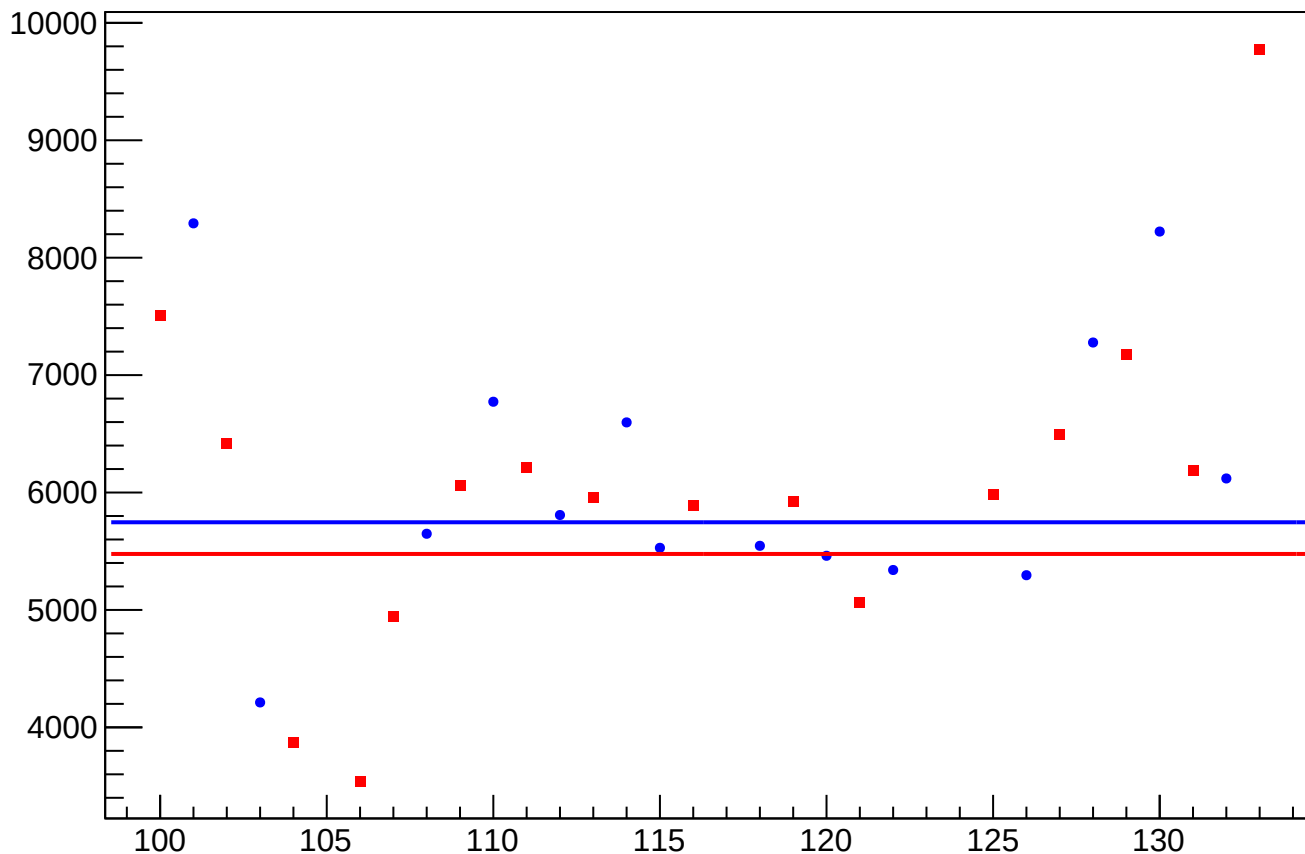
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 415.628 $\pm$ 1628.606  $\chi^2$ /NDF: 27.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_cor\_correction\_rms vs Slug



Right In: 5746.634+/-1.702  $\chi^2/\text{NDF}$ : 461243.6/13

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: 5476.816+/-1.564  $\chi^2/\text{NDF}$ : 673738.1/15

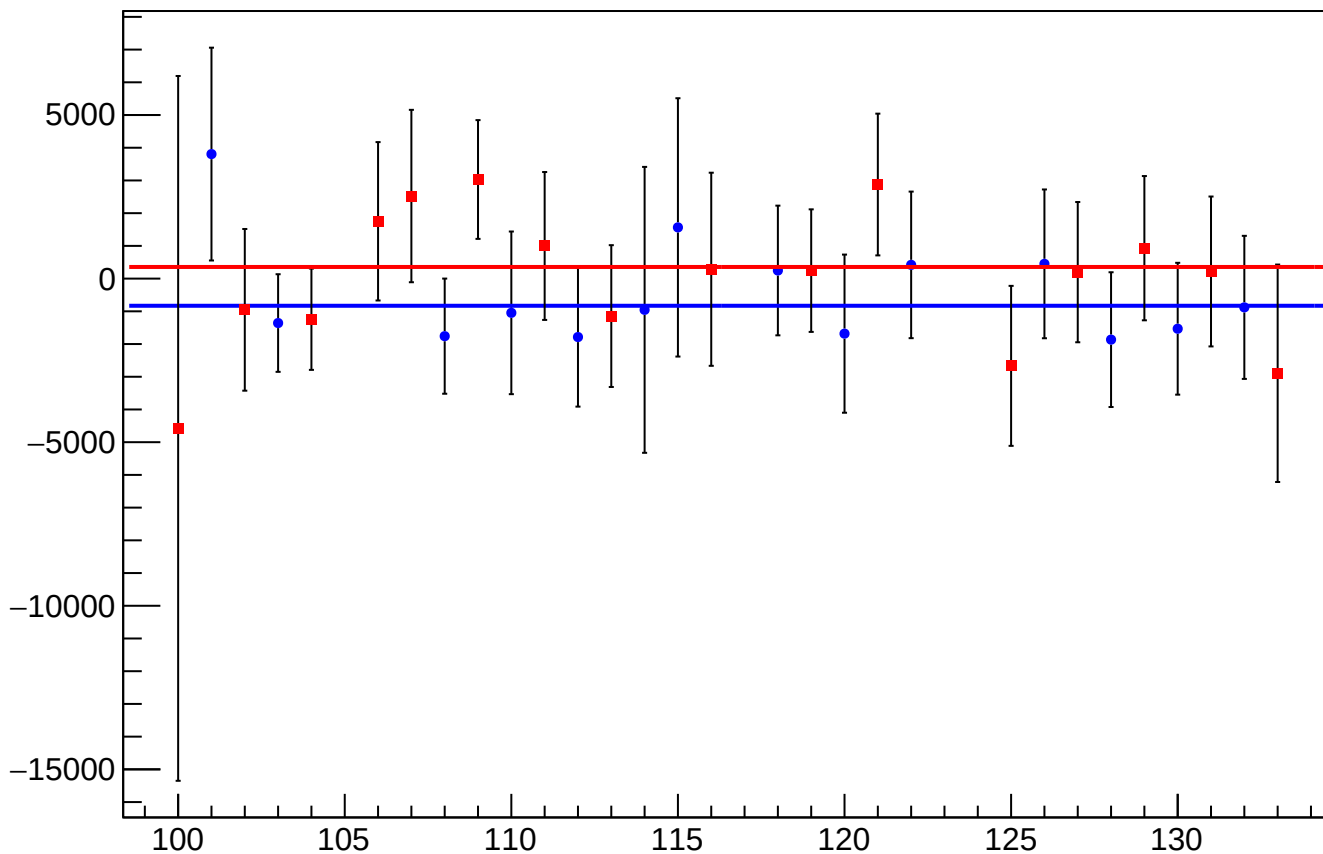
All: 5600.365+/-1.152  $\chi^2/\text{NDF}$ : 1148608.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In: -830.169+/-589.681  $\chi^2$ /NDF: 4.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 355.699+/-567.868  $\chi^2$ /NDF: 9.2/15

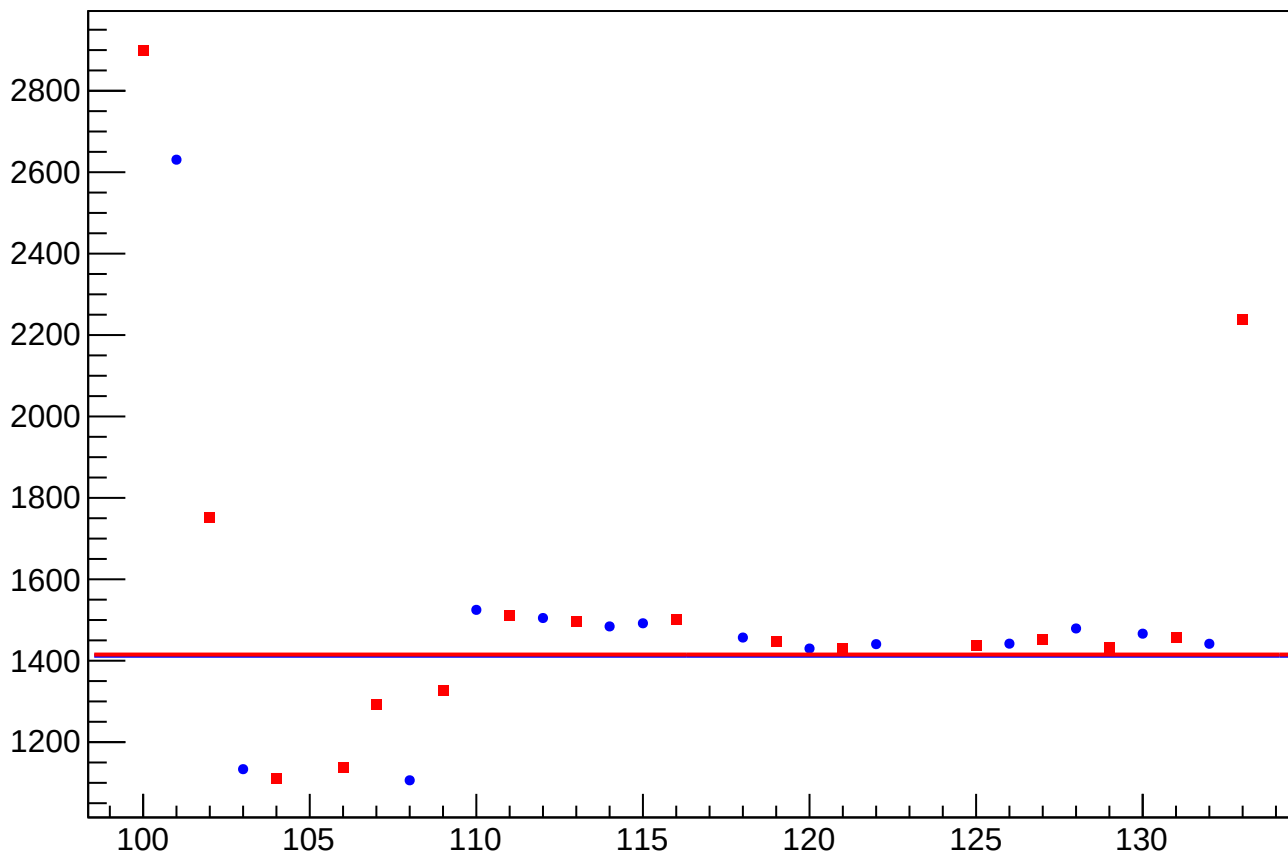
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -214.897+/-409.037  $\chi^2$ /NDF: 15.7/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1412.229+/-0.417  $\chi^2/\text{NDF}$ : 425948.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1415.144+/-0.401  $\chi^2/\text{NDF}$ : 322948.5/15

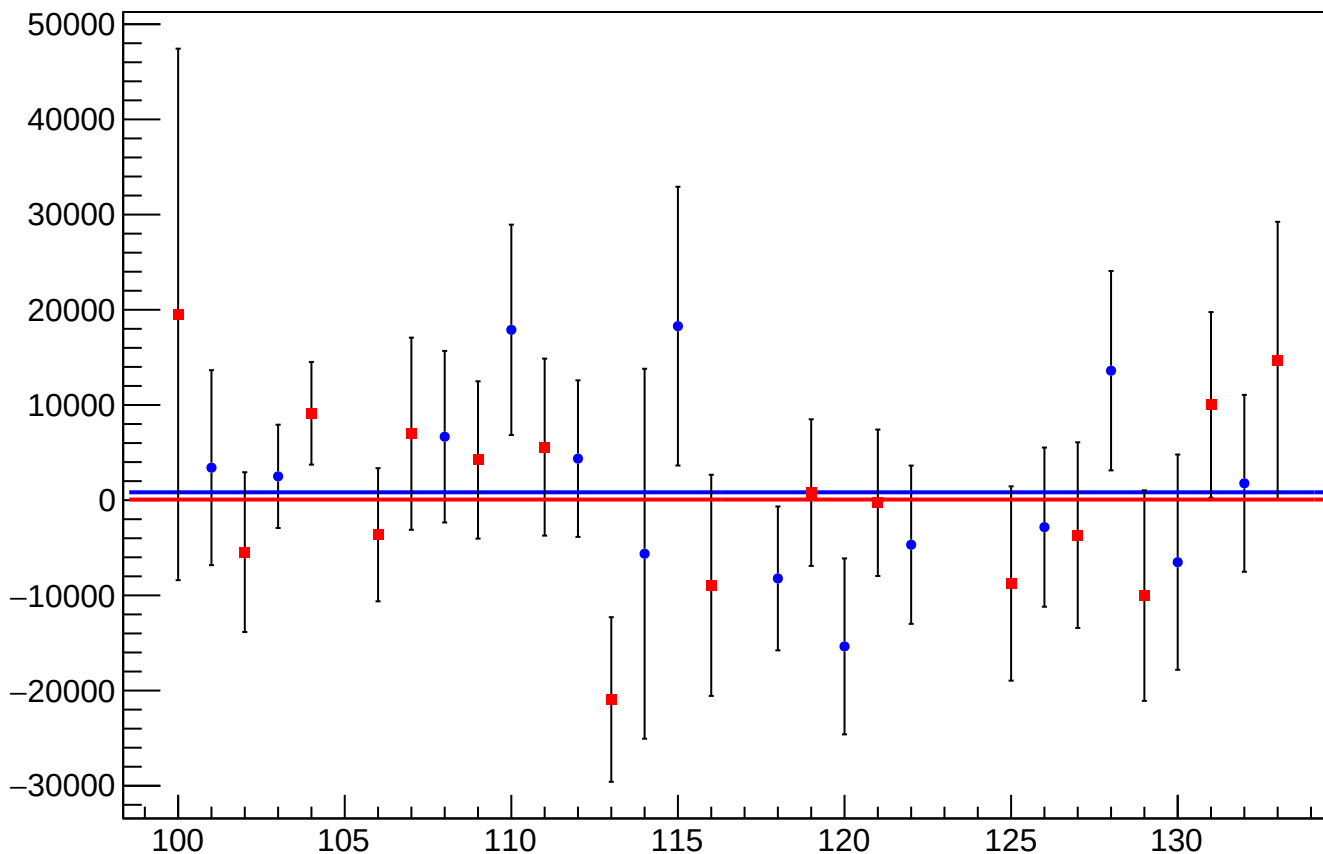
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1413.745+/-0.289  $\chi^2/\text{NDF}$ : 748922.3/29

- 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: 827.894 $\pm$ 2406.753  $\chi^2$ /NDF: 11.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.397 $\pm$ 2211.952  $\chi^2$ /NDF: 15.4/15

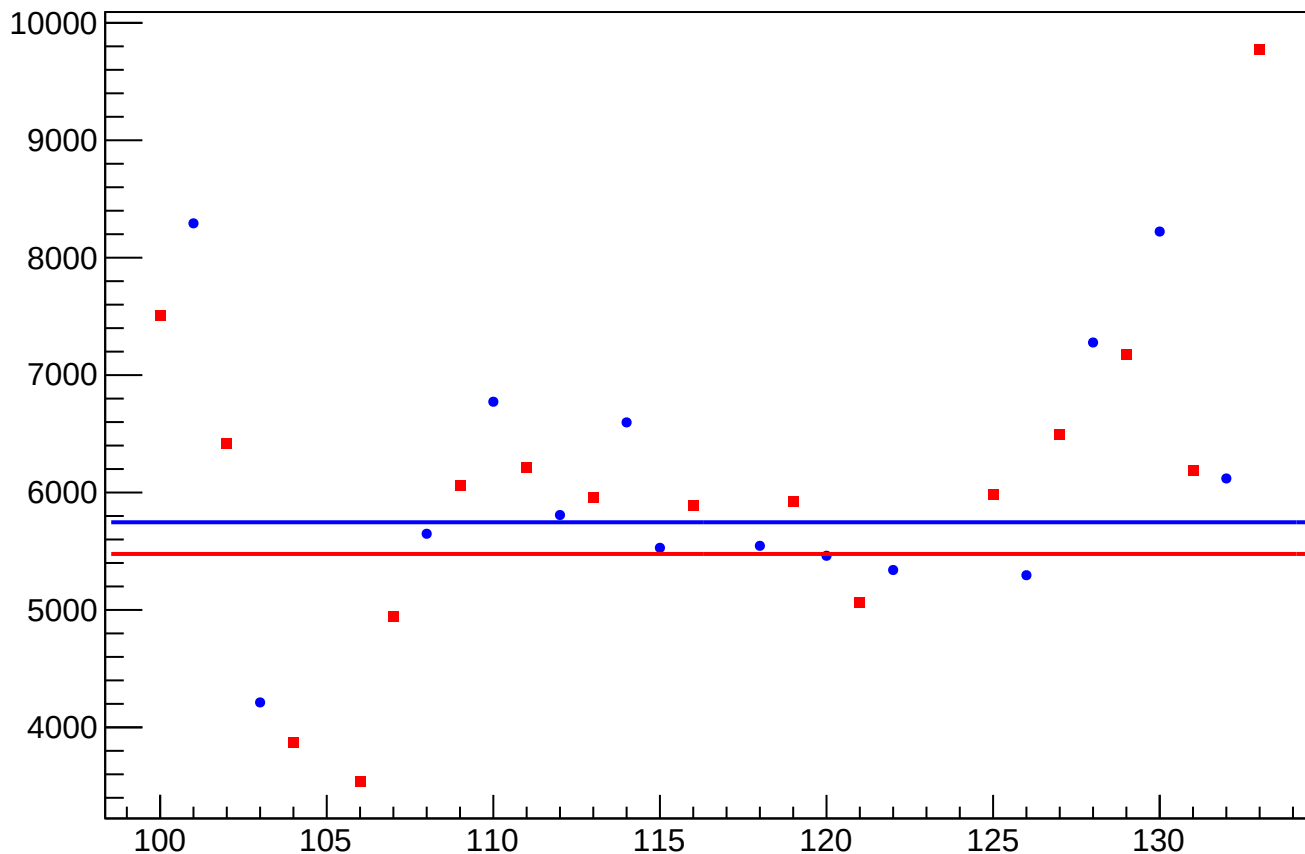
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 415.628 $\pm$ 1628.606  $\chi^2$ /NDF: 27.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 5746.634+/-1.702  $\chi^2/\text{NDF}$ : 461243.6/13

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

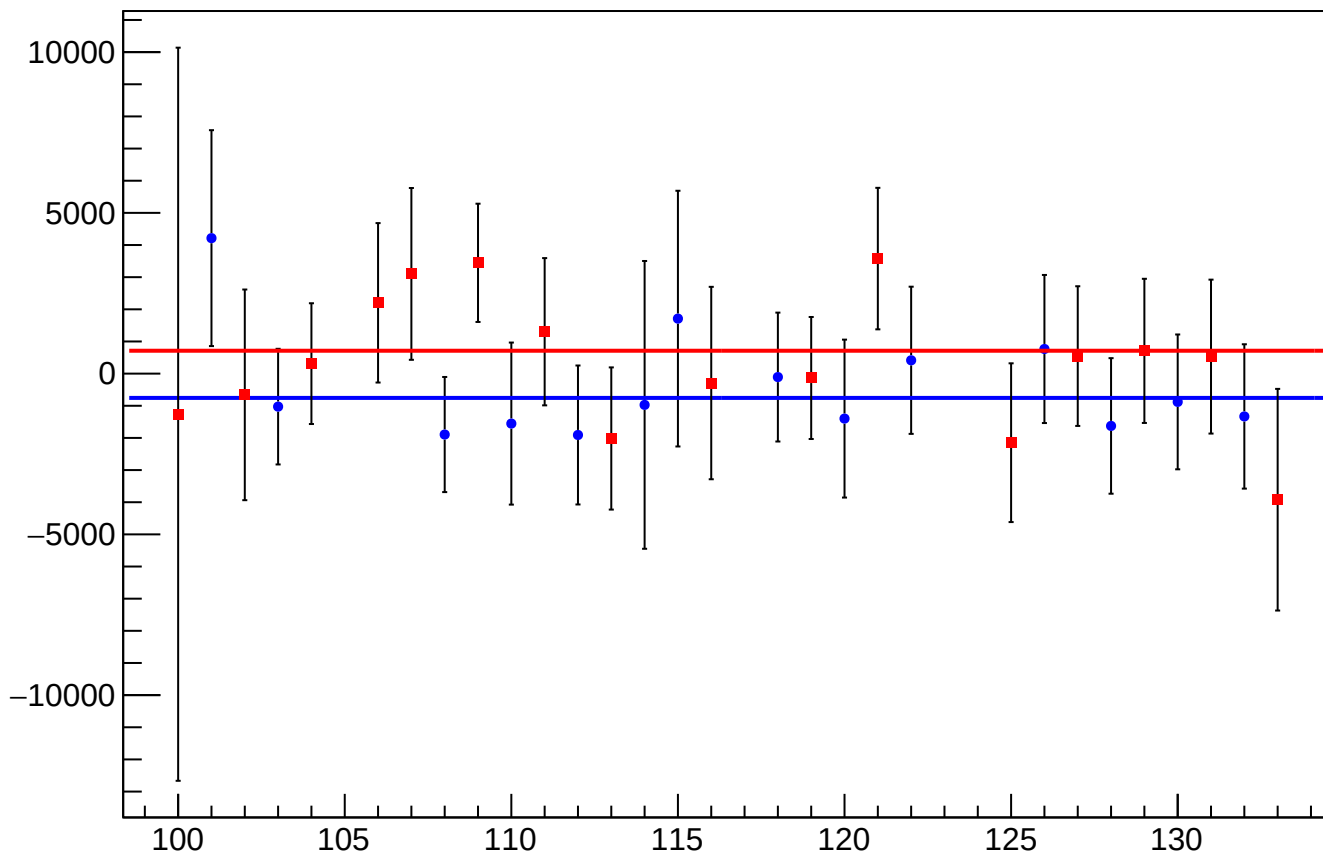
Right Out: 5476.816+/-1.564  $\chi^2/\text{NDF}$ : 673738.1/15

All: 5600.365+/-1.152  $\chi^2/\text{NDF}$ : 1148608.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug



Right In:  $-755.360 \pm 615.528$   $\chi^2/\text{NDF}$ : 4.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $711.923 \pm 596.833$   $\chi^2/\text{NDF}$ : 10.4/15

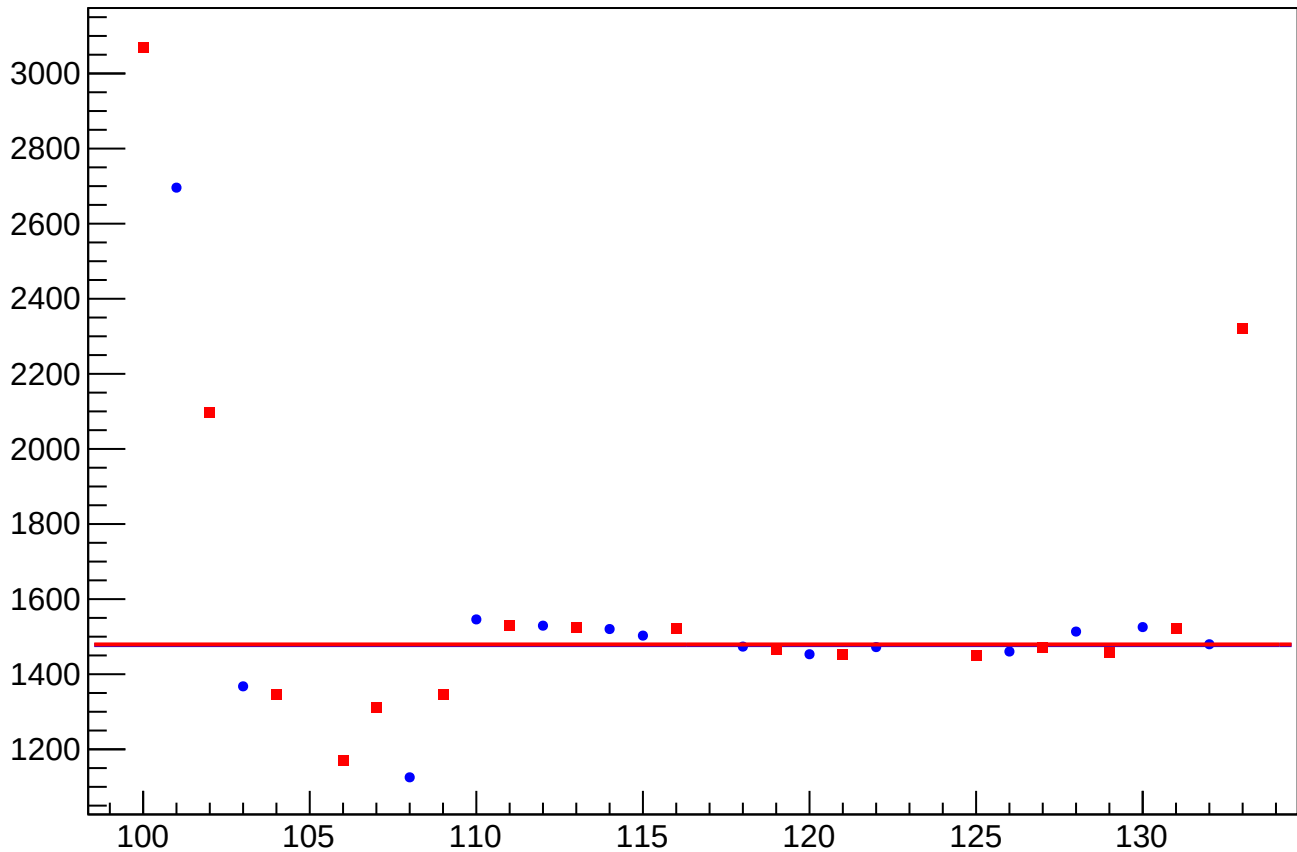
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.902 \pm 428.481$   $\chi^2/\text{NDF}$ : 17.8/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1477.563+/-0.435  $\chi^2/\text{NDF}$ : 353017.4/13

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

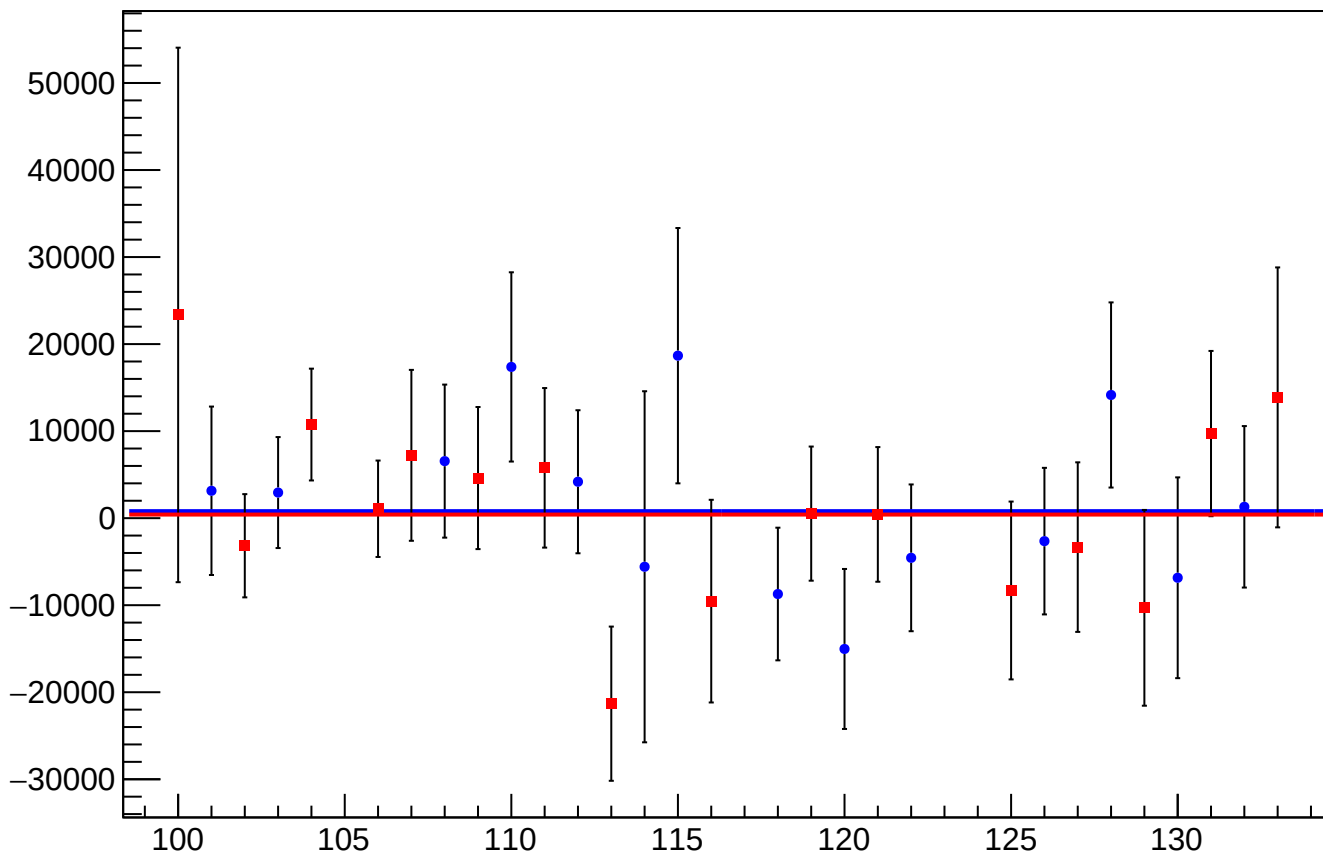
Right Out: 1479.294+/-0.422  $\chi^2/\text{NDF}$ : 292649.6/15

All: 1478.455+/-0.303  $\chi^2/\text{NDF}$ : 645675.2/29

- 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\_dit\_correction\_mean vs Slug



Right In: 806.956+/-2470.933  $\chi^2/\text{NDF}$ : 11.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 412.992+/-2127.844  $\chi^2/\text{NDF}$ : 14.9/15

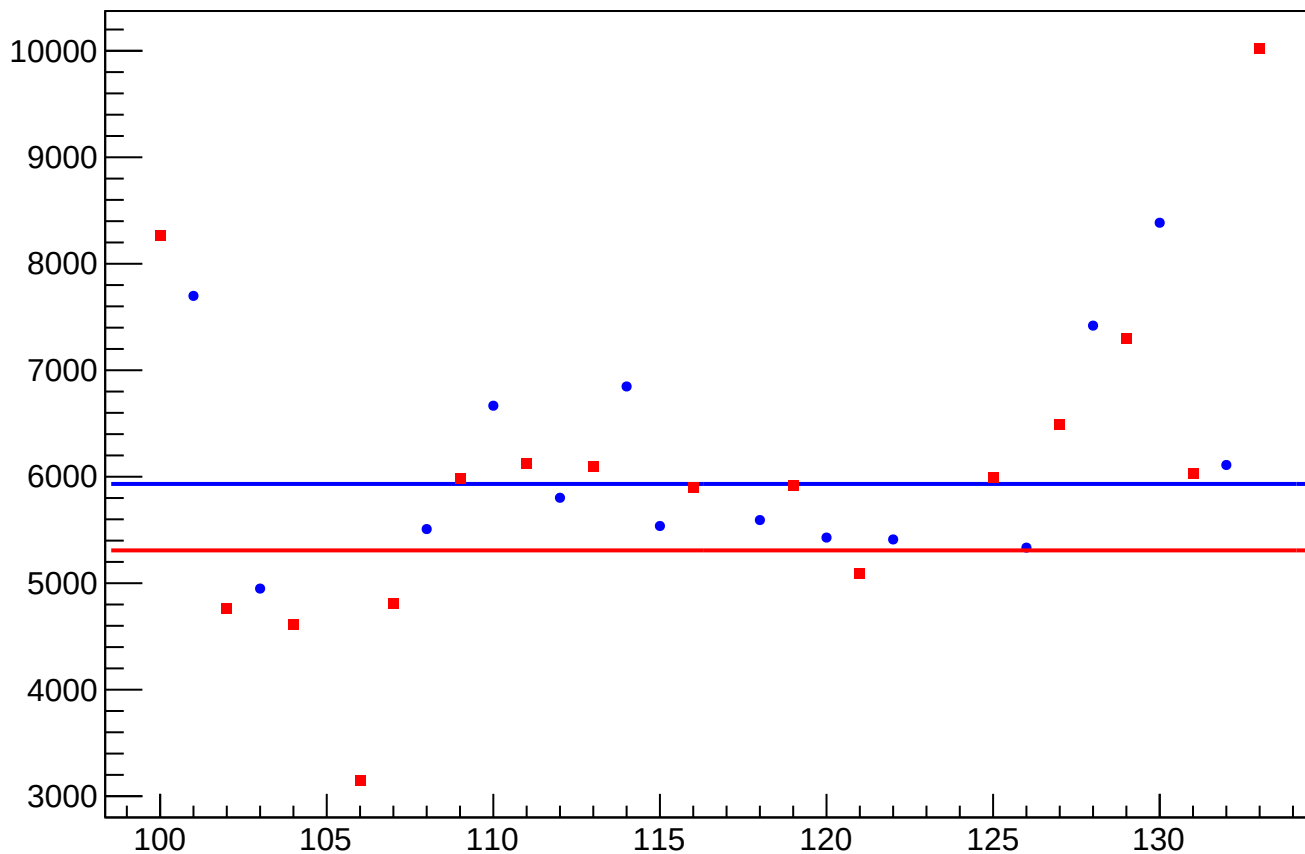
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 580.745+/-1612.383  $\chi^2/\text{NDF}$ : 26.7/29

- 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: 5932.283+/-1.747  $\chi^2/\text{NDF}$ : 291960.6/13

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: 5308.220+/-1.505  $\chi^2/\text{NDF}$ : 744286.4/15

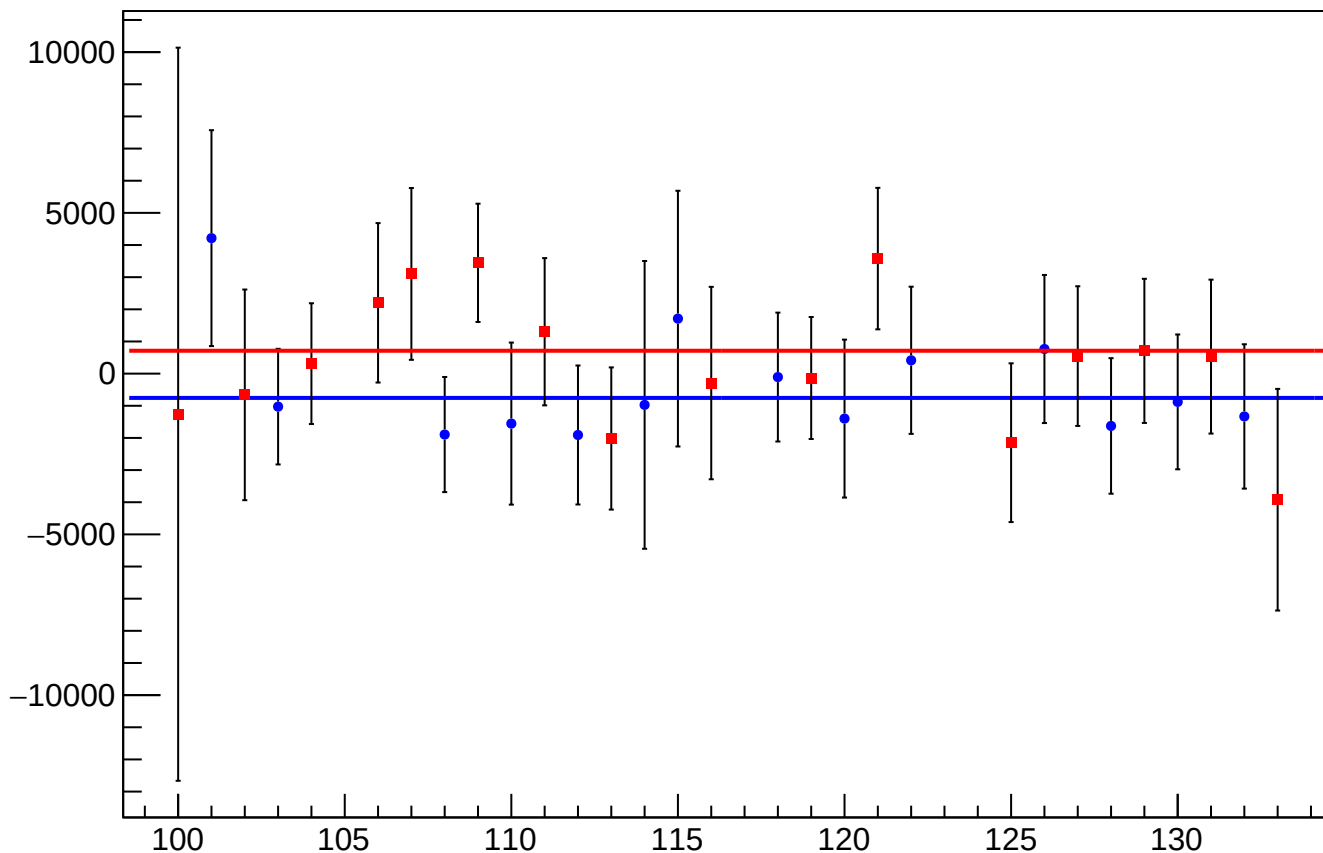
All: 5573.951+/-1.140  $\chi^2/\text{NDF}$ : 1109499.3/29

- 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\_dd\_mean vs Slug



Right In:  $-755.364 \pm 615.528$   $\chi^2/\text{NDF}$ : 4.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $711.933 \pm 596.833$   $\chi^2/\text{NDF}$ : 10.4/15

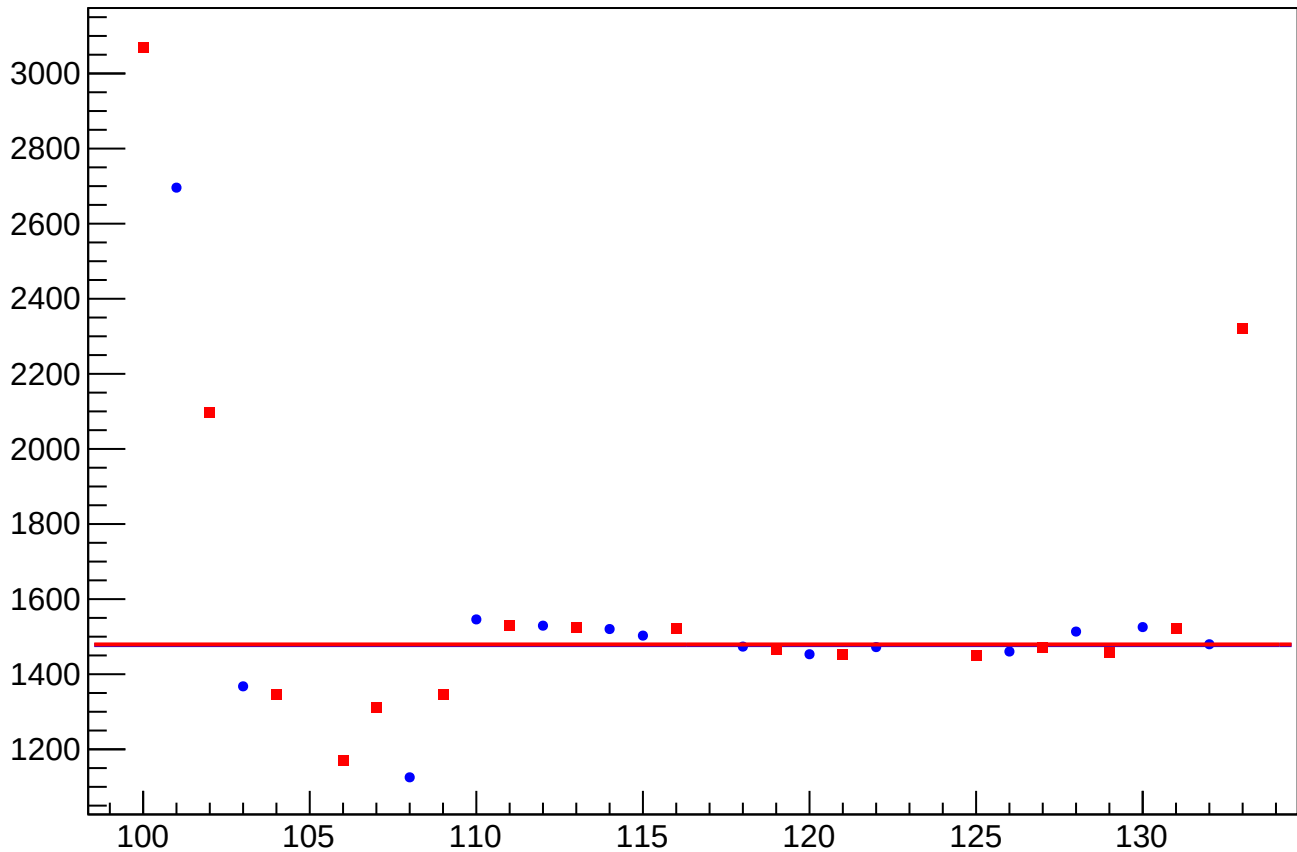
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.905 \pm 428.481$   $\chi^2/\text{NDF}$ : 17.8/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 1477.563+/-0.435  $\chi^2/\text{NDF}$ : 353016.5/13

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

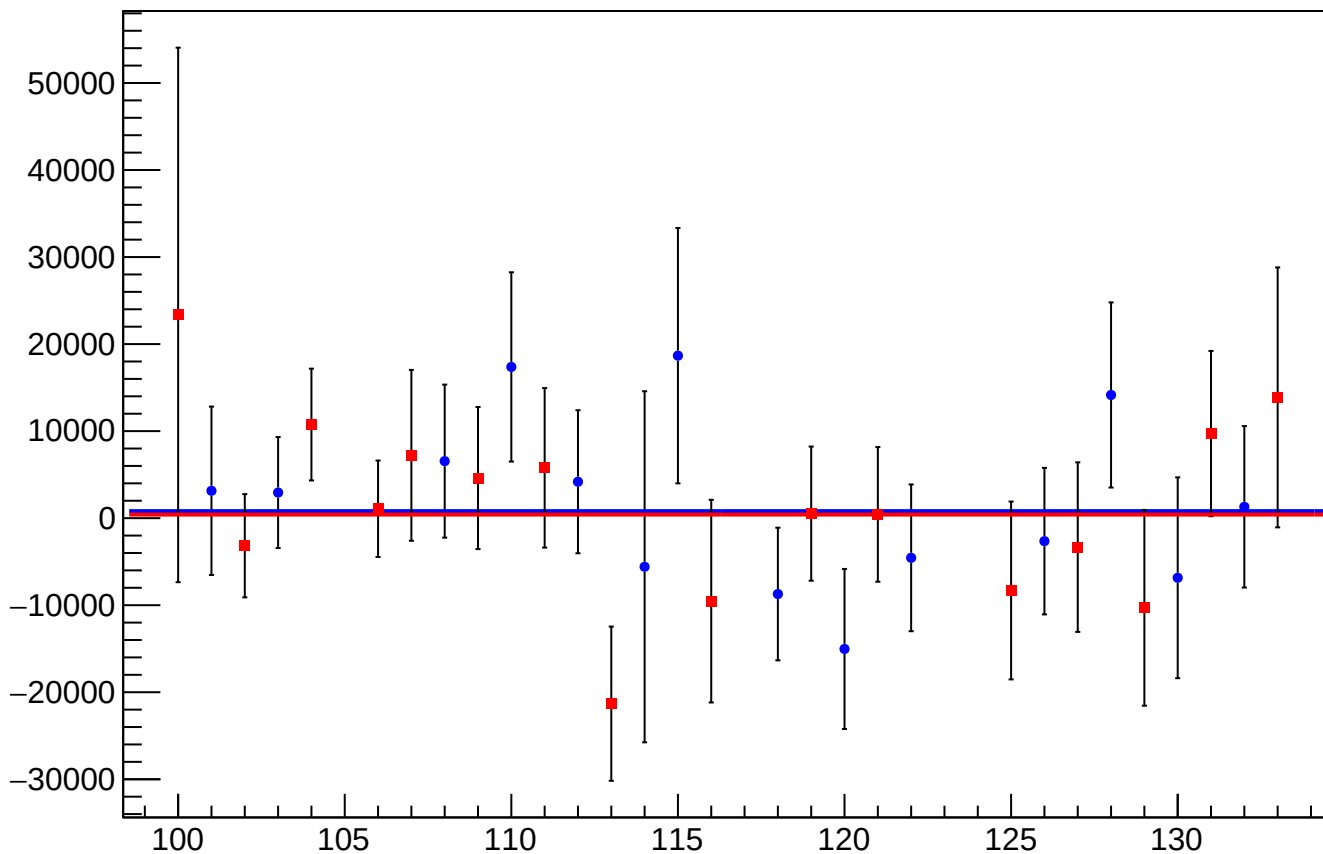
Right Out: 1479.294+/-0.422  $\chi^2/\text{NDF}$ : 292649.6/15

All: 1478.455+/-0.303  $\chi^2/\text{NDF}$ : 645674.3/29

- 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\_eigen\_dit\_correction\_mean vs Slug



Right In: 806.946+/-2470.926  $\chi^2/\text{NDF}$ : 11.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 412.999+/-2127.839  $\chi^2/\text{NDF}$ : 14.9/15

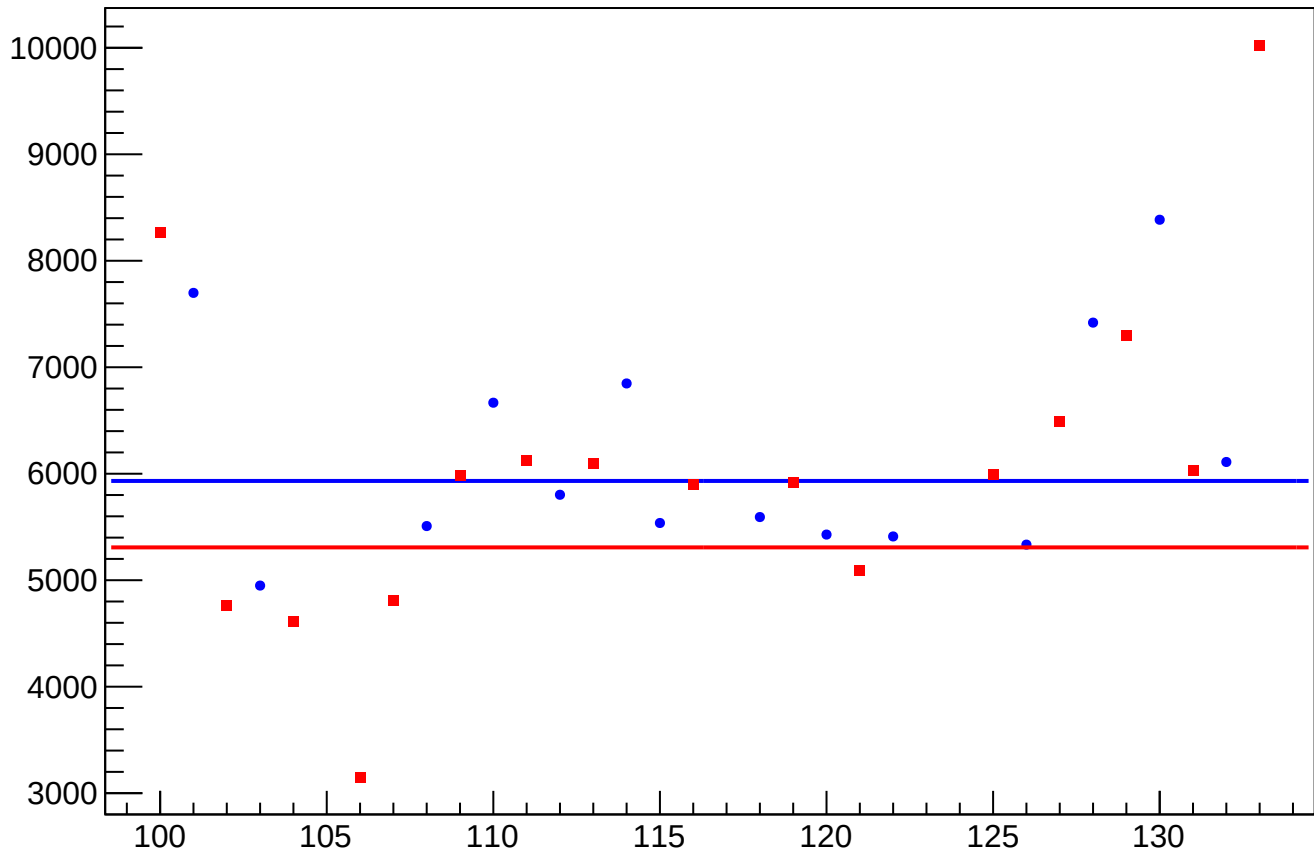
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 580.745+/-1612.379  $\chi^2/\text{NDF}$ : 26.7/29

- 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: 5932.267+/-1.747  $\chi^2/\text{NDF}$ : 291960.2/13

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

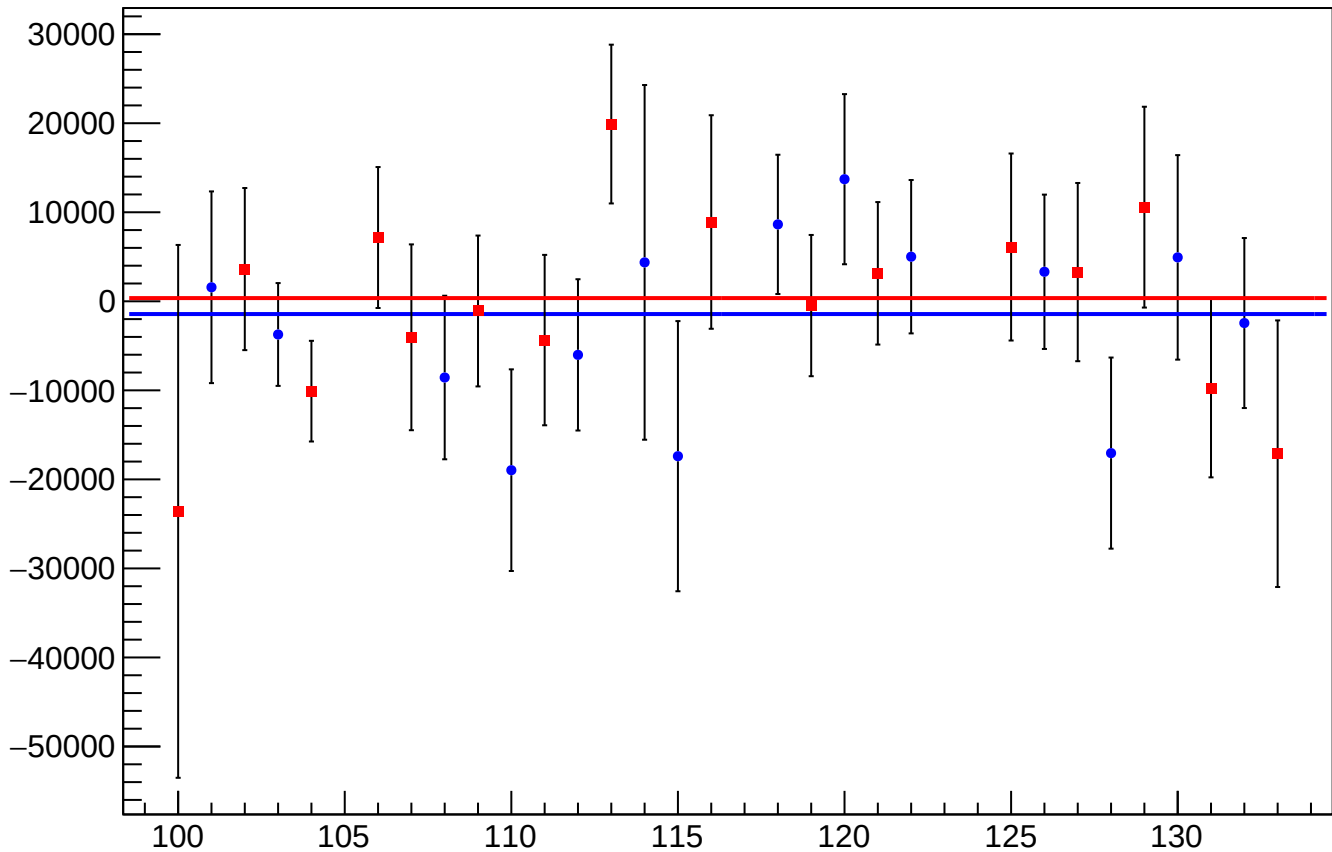
Right Out: 5308.208+/-1.505  $\chi^2/\text{NDF}$ : 744284.3/15

All: 5573.938+/-1.140  $\chi^2/\text{NDF}$ : 1109496.3/29

- 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: -1432.391+/-2497.403     $\chi^2/\text{NDF}$ : 12.2/13

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 360.590+/-2313.378     $\chi^2/\text{NDF}$ : 14.4/15

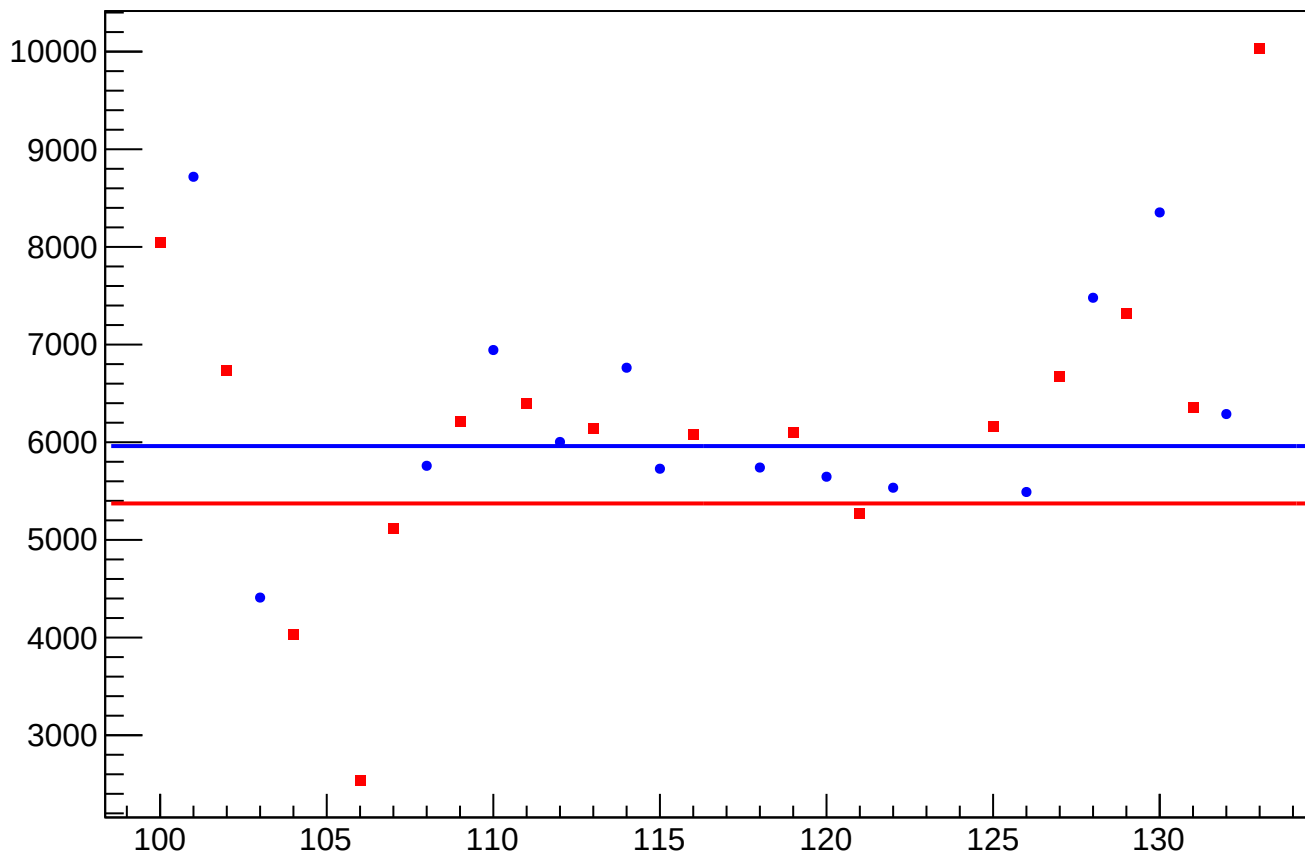
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: -467.414+/-1697.138     $\chi^2/\text{NDF}$ : 26.9/29

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug



Right In: 5960.831+/-1.766  $\chi^2/\text{NDF}$ : 439162.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5373.194+/-1.573  $\chi^2/\text{NDF}$ : 1075049.9/15

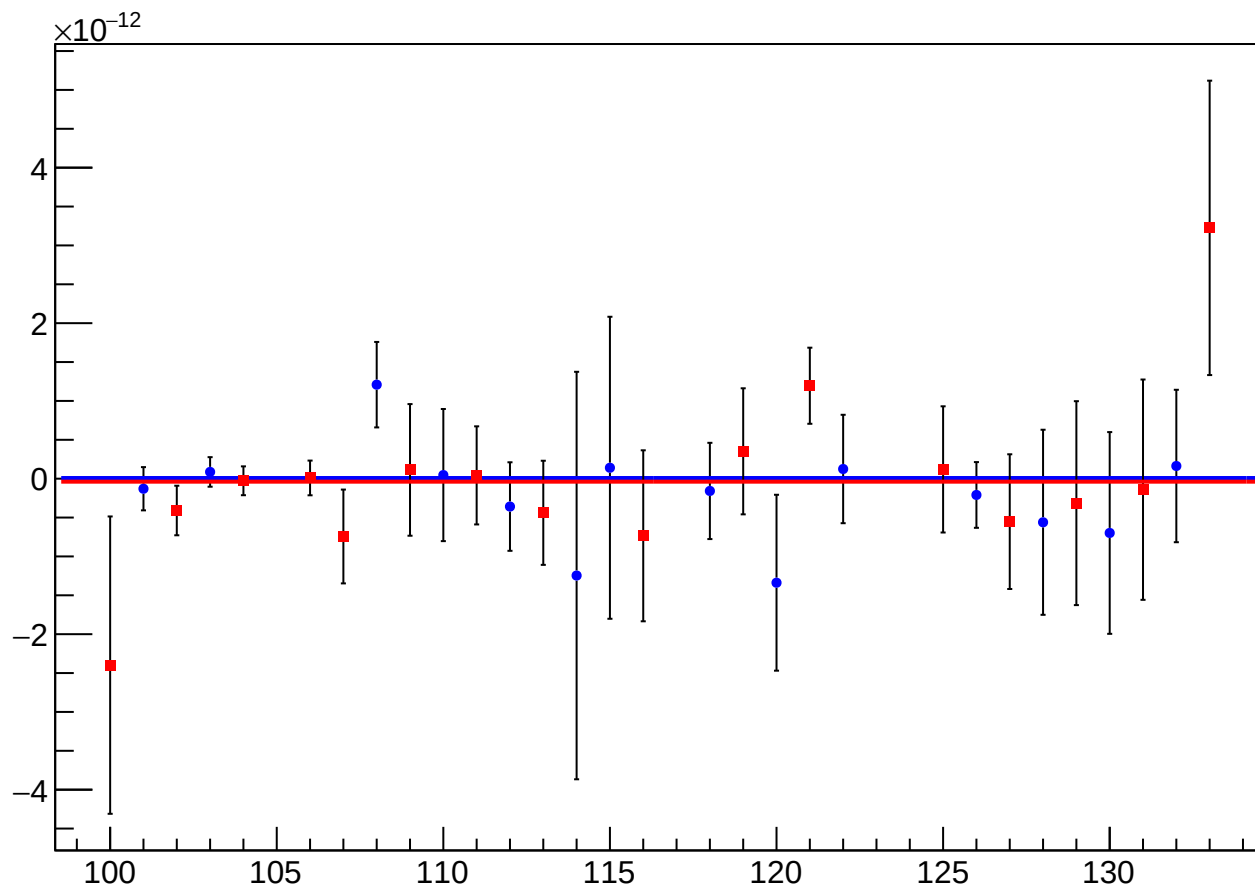
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5633.132+/-1.174  $\chi^2/\text{NDF}$ : 1575962.7/29

- 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  $\chi^2/\text{NDF}$ : 8.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.1/15

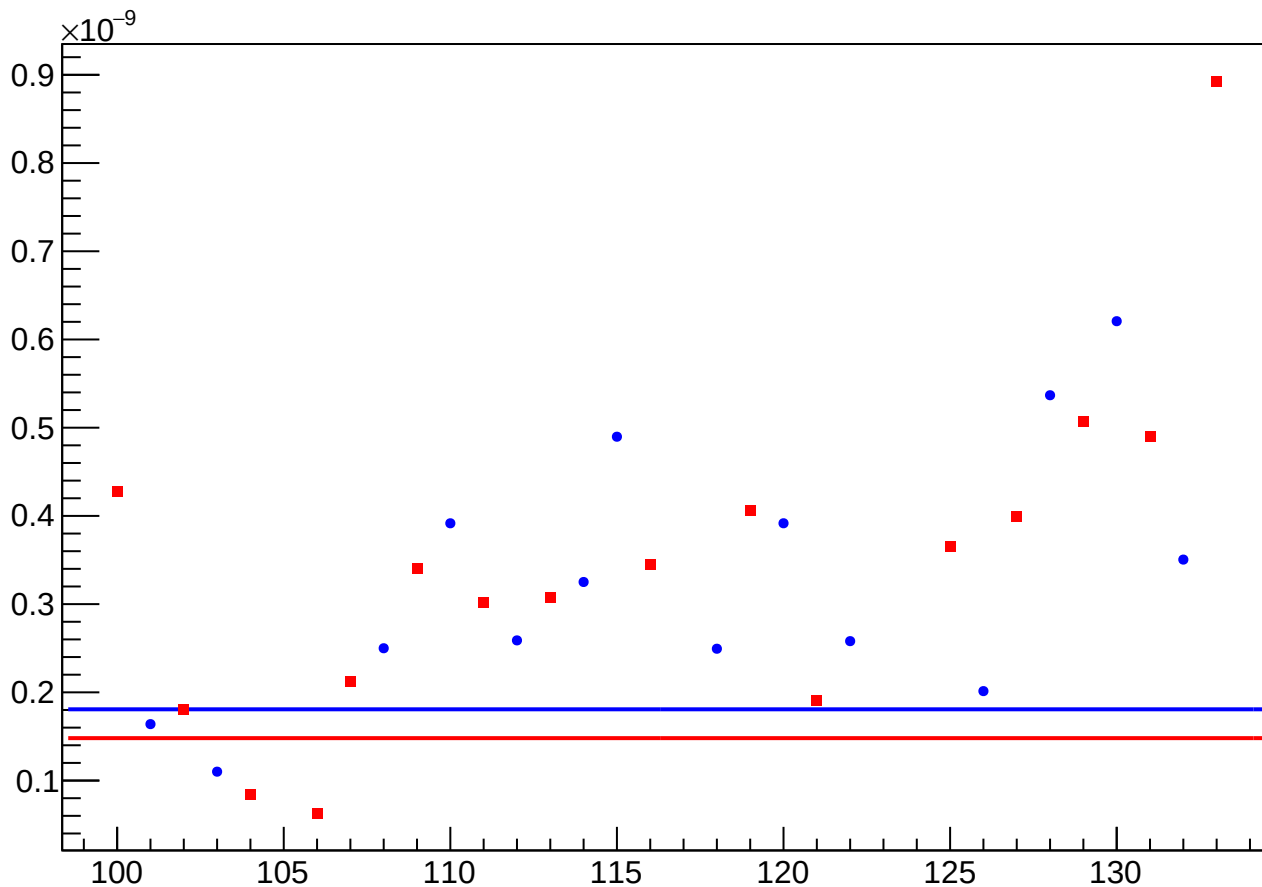
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 23.3/29

- 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  $\chi^2/\text{NDF}$ : 1125435.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2120492.5/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

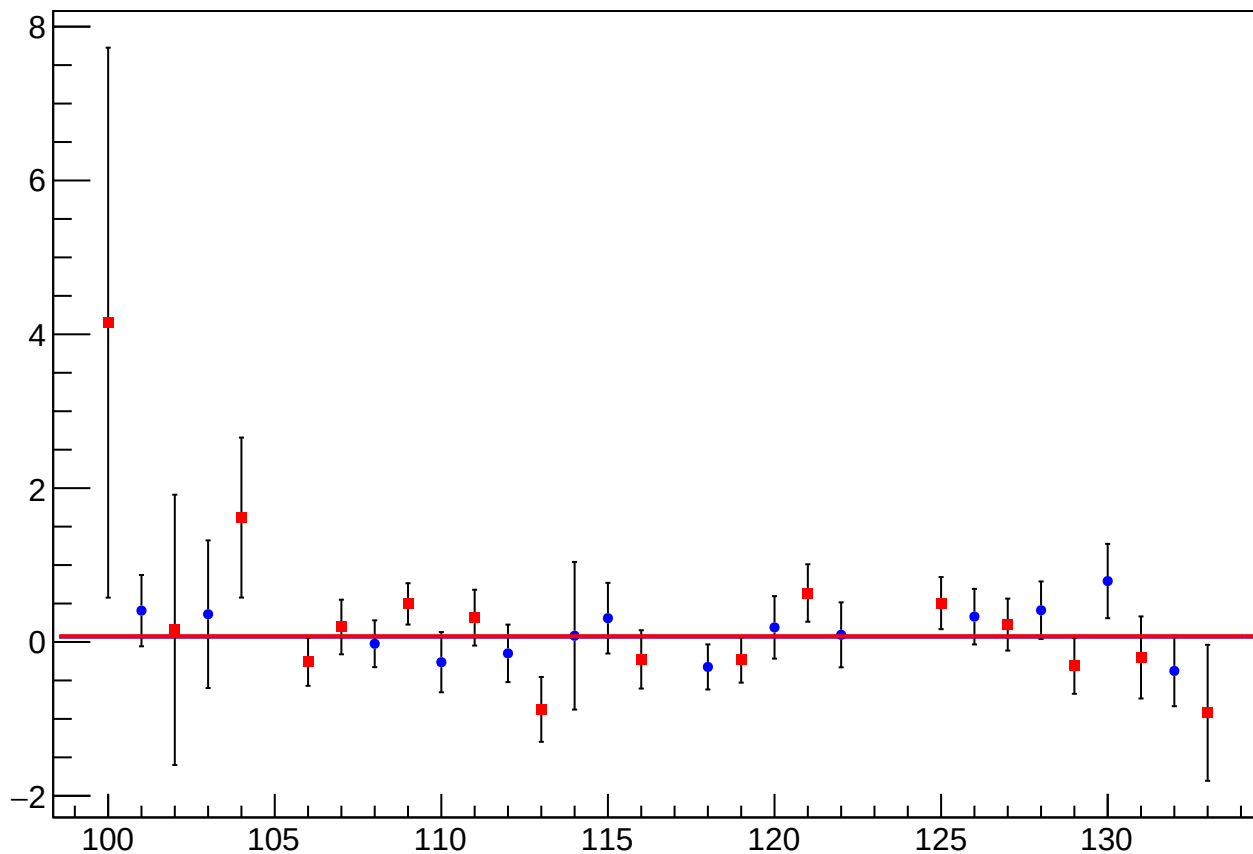
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3320197.7/29

- 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: 0.070+/-0.110  $\chi^2/\text{NDF}$ : 8.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.074+/-0.099  $\chi^2/\text{NDF}$ : 21.2/15

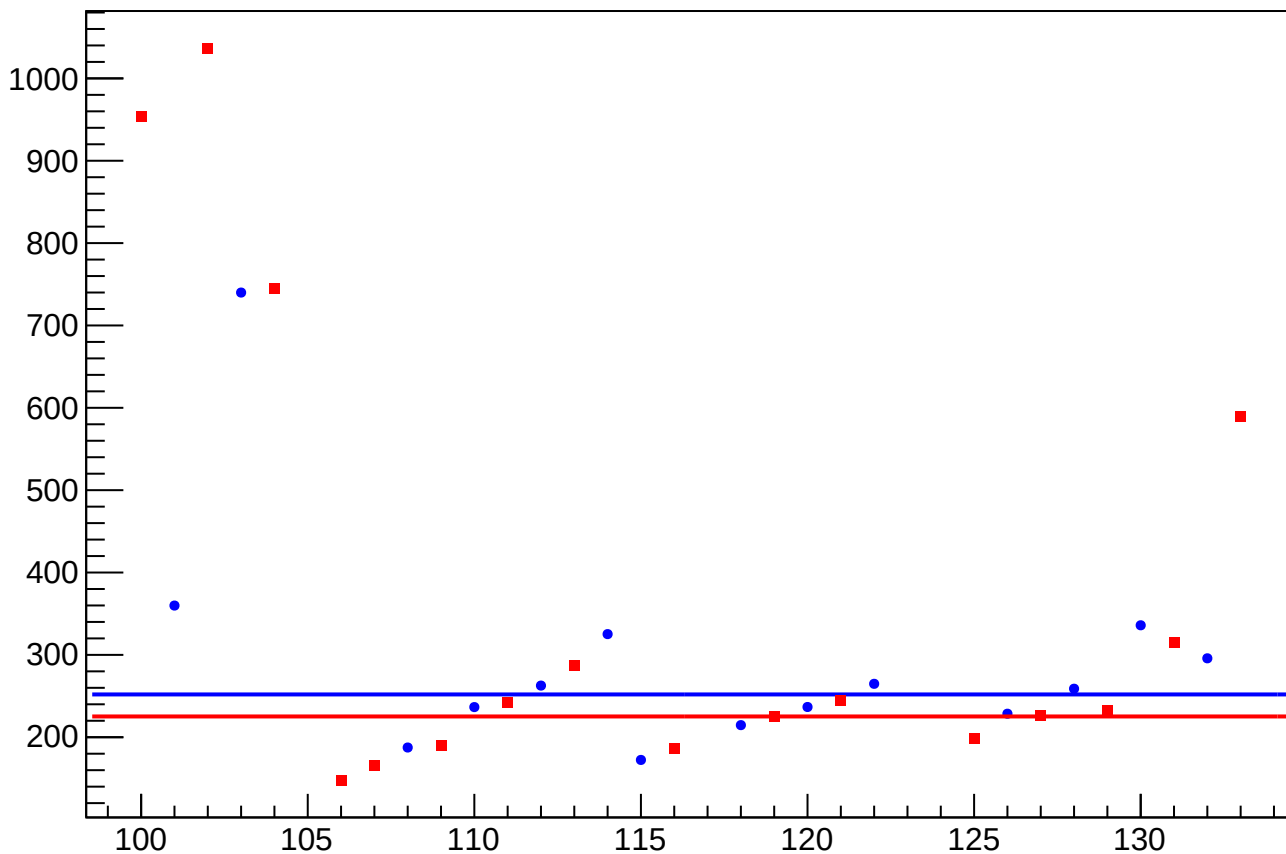
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.072+/-0.073  $\chi^2/\text{NDF}$ : 29.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 251.967+/-0.078  $\chi^2/\text{NDF}$ : 916089.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 225.231+/-0.070  $\chi^2/\text{NDF}$ : 1706337.8/15

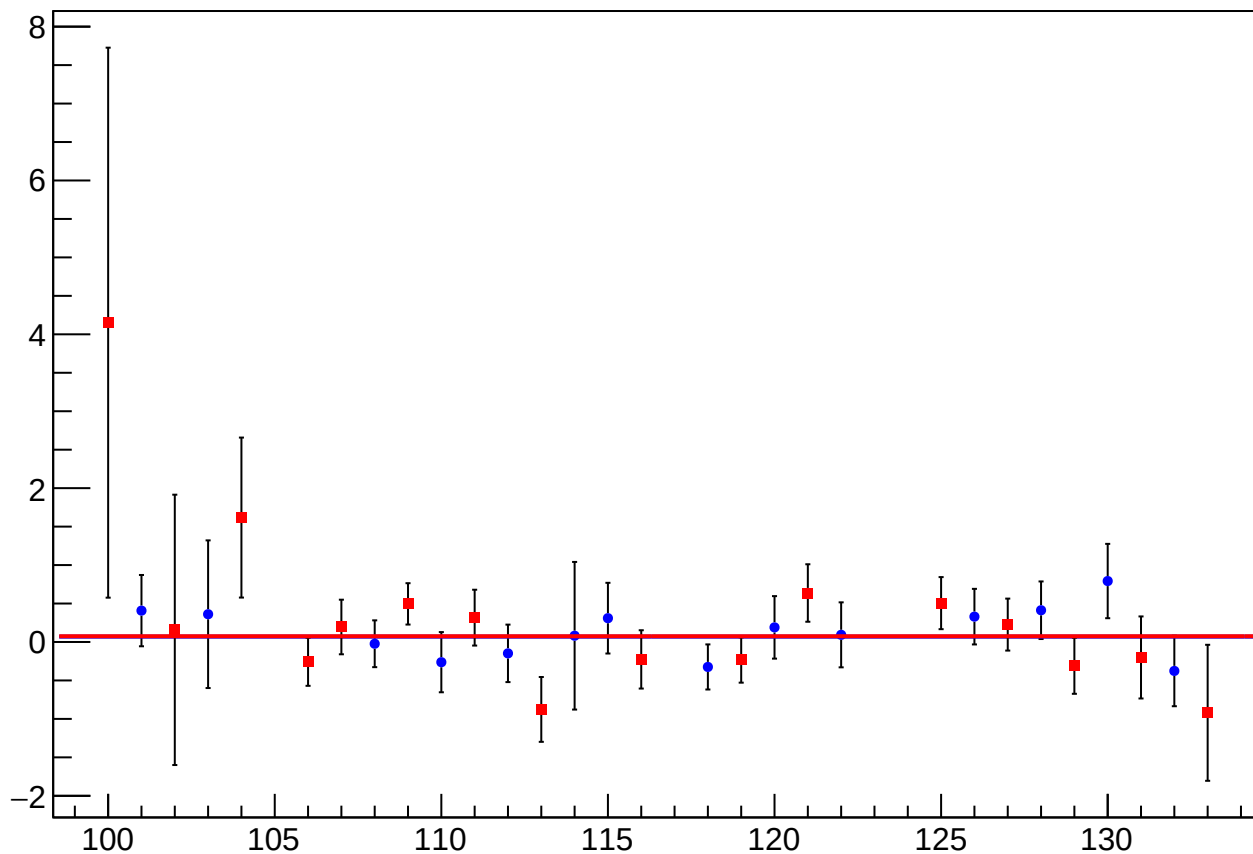
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 237.245+/-0.052  $\chi^2/\text{NDF}$ : 2687917.8/29

- 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: 0.070+/-0.110  $\chi^2/\text{NDF}$ : 8.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.074+/-0.099  $\chi^2/\text{NDF}$ : 21.2/15

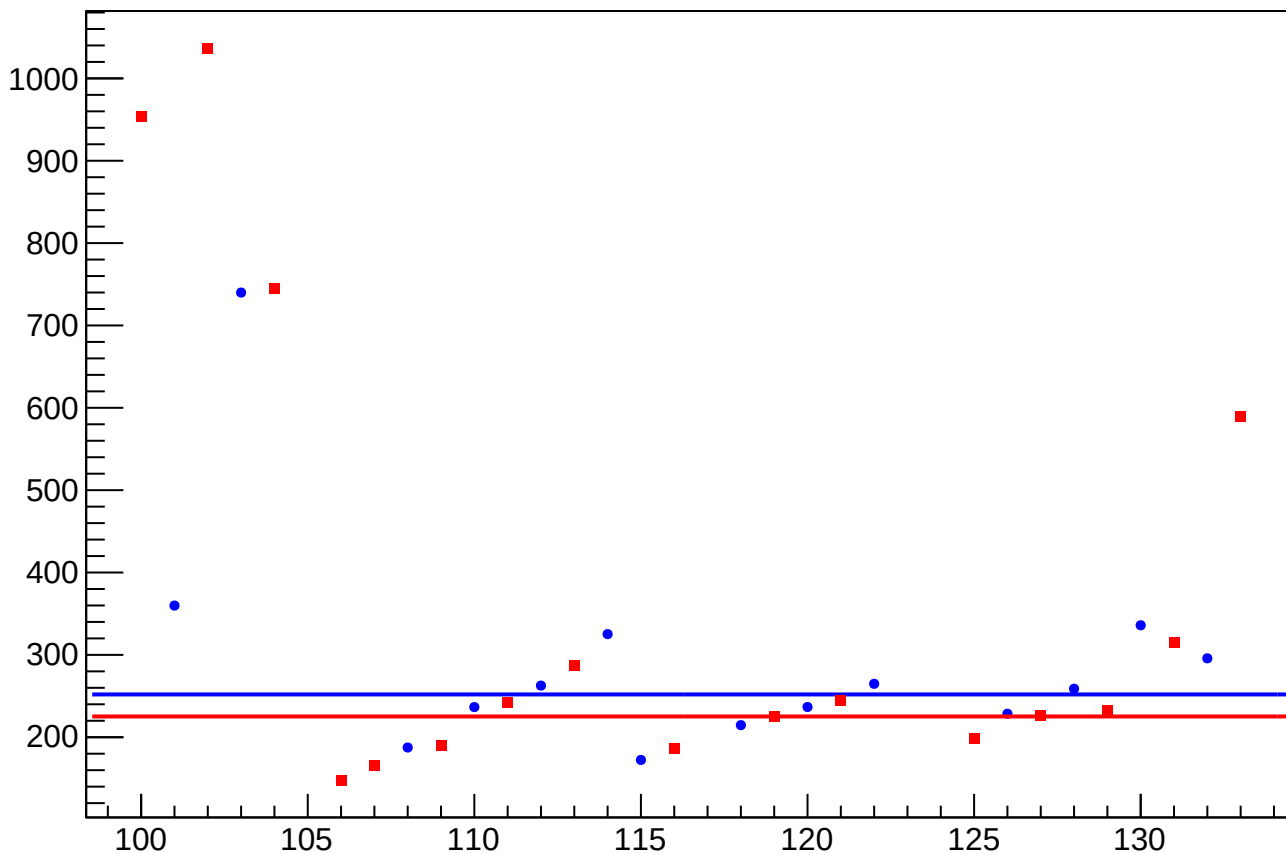
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.072+/-0.073  $\chi^2/\text{NDF}$ : 29.7/29

- sign 0.000+/-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: 251.967 $\pm$ 0.078  $\chi^2$ /NDF: 916089.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 225.231 $\pm$ 0.070  $\chi^2$ /NDF: 1706337.8/15

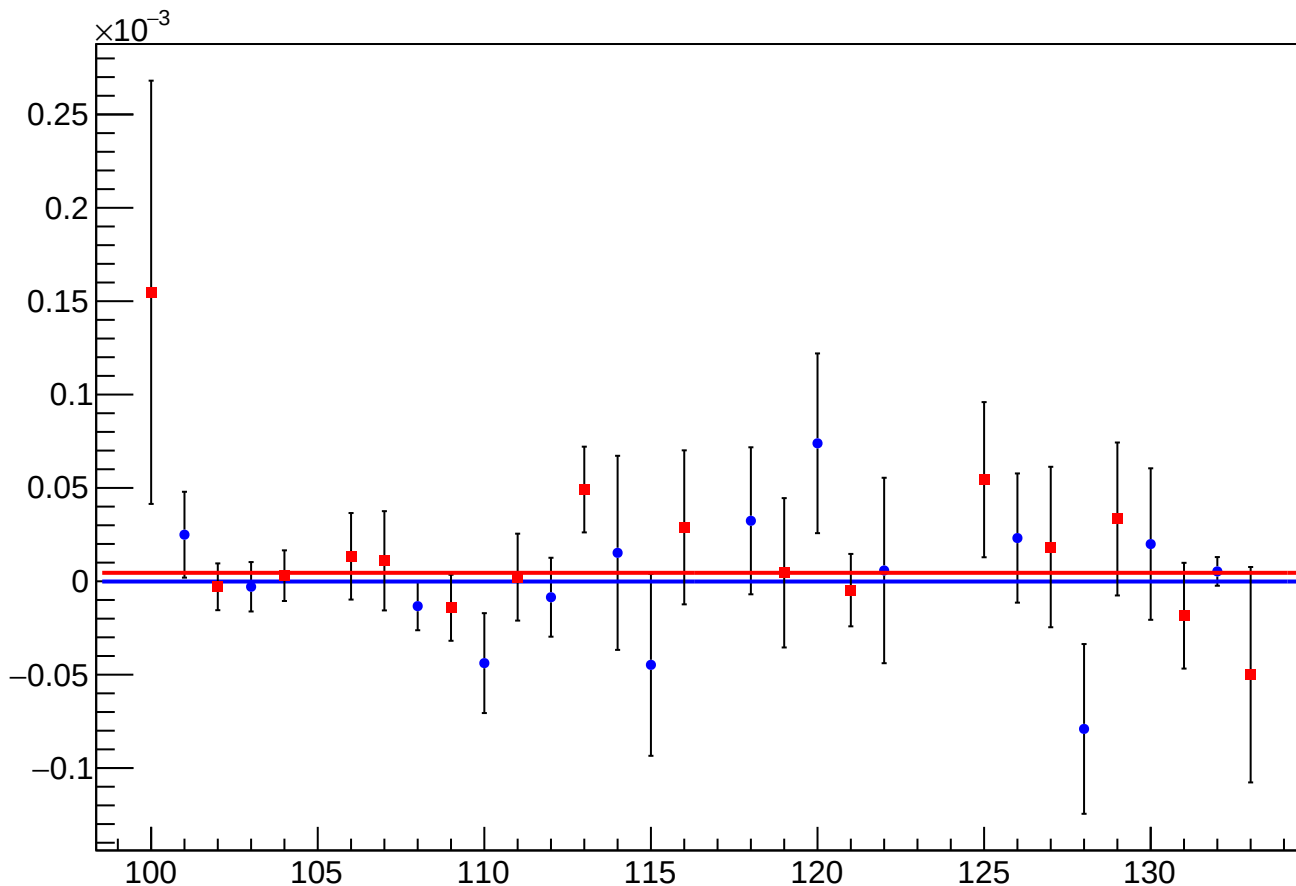
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 237.245 $\pm$ 0.052  $\chi^2$ /NDF: 2687917.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.4/15

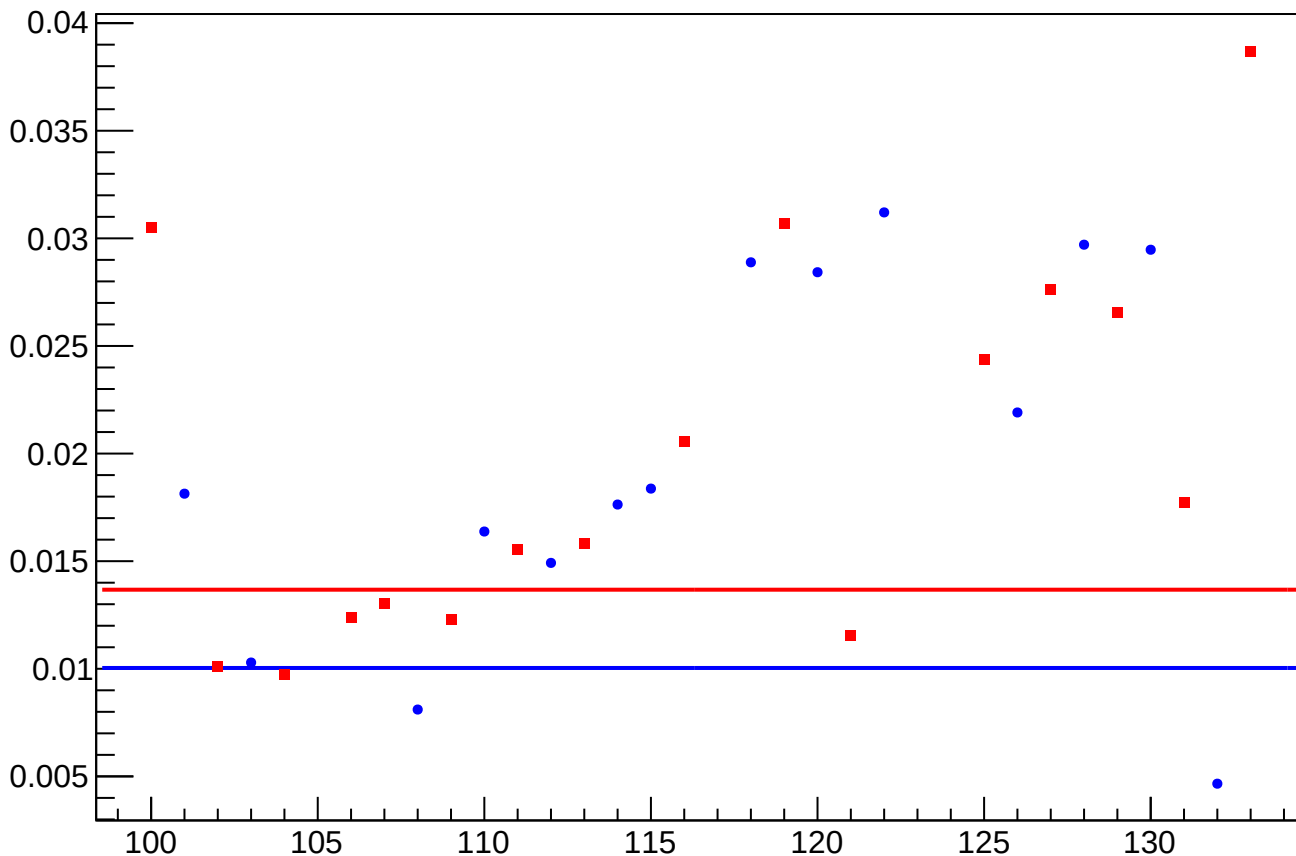
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 25.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 3778394.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 1825630.5/15

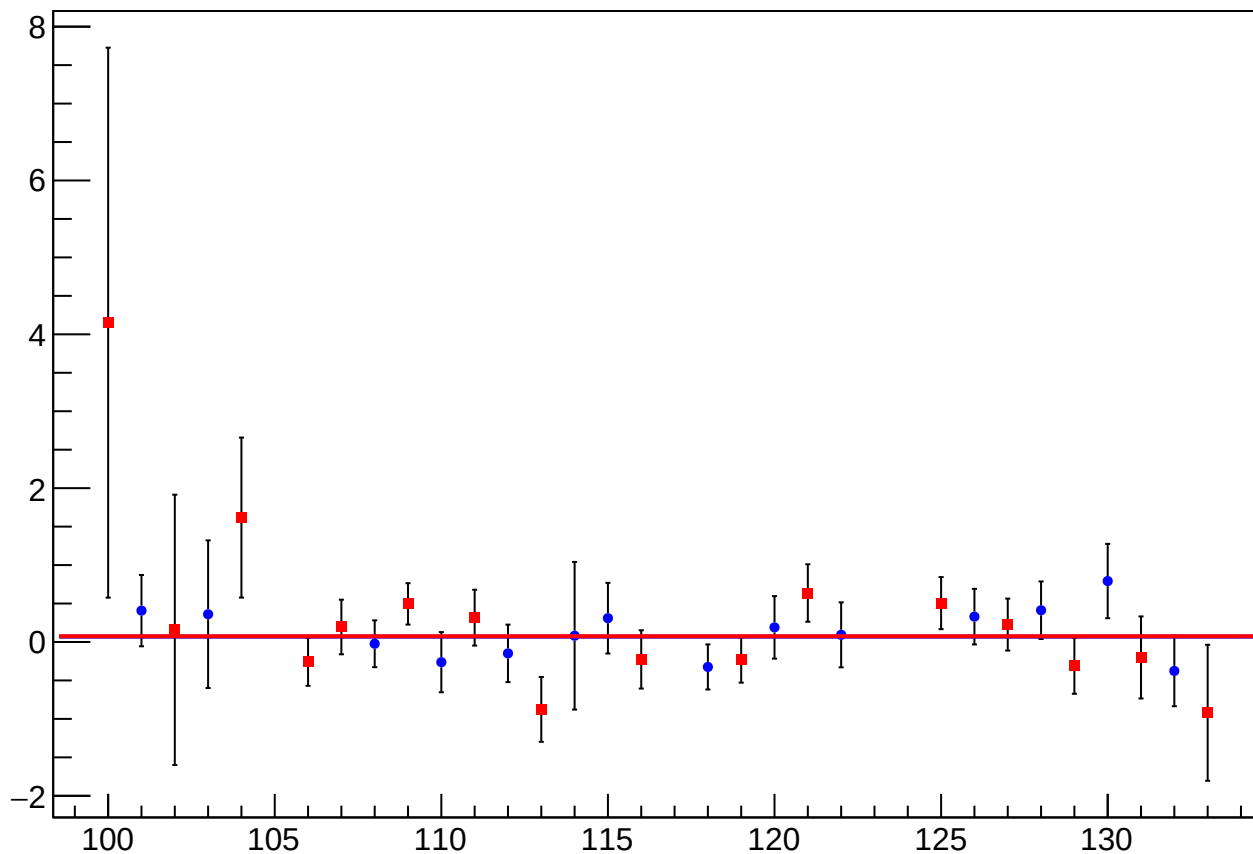
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 6043306.1/29

- 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: 0.070 $\pm$ 0.110  $\chi^2$ /NDF: 8.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.074 $\pm$ 0.099  $\chi^2$ /NDF: 21.2/15

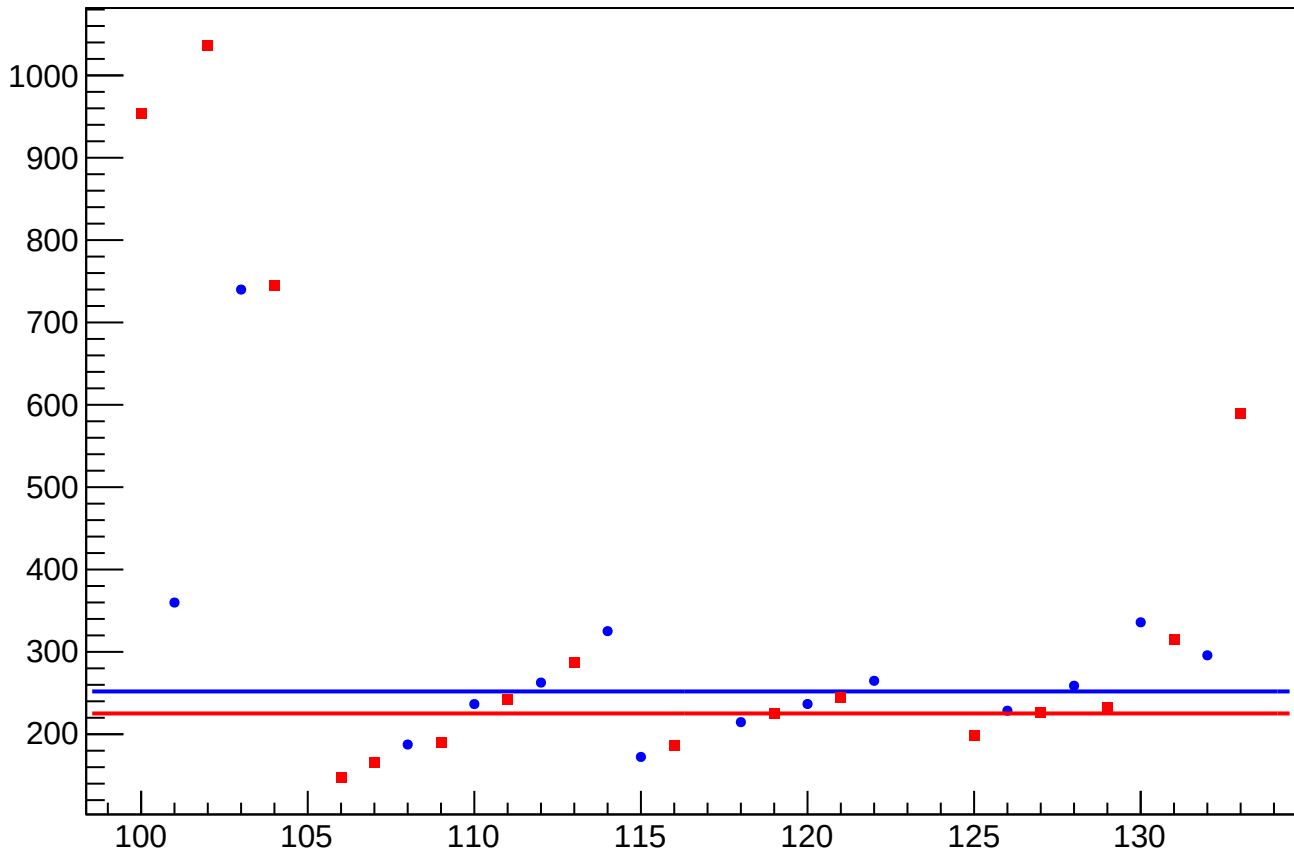
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.072 $\pm$ 0.073  $\chi^2$ /NDF: 29.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 251.967 $\pm$ 0.078  $\chi^2$ /NDF: 916041.6/13

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: 225.231 $\pm$ 0.070  $\chi^2$ /NDF: 1706317.6/15

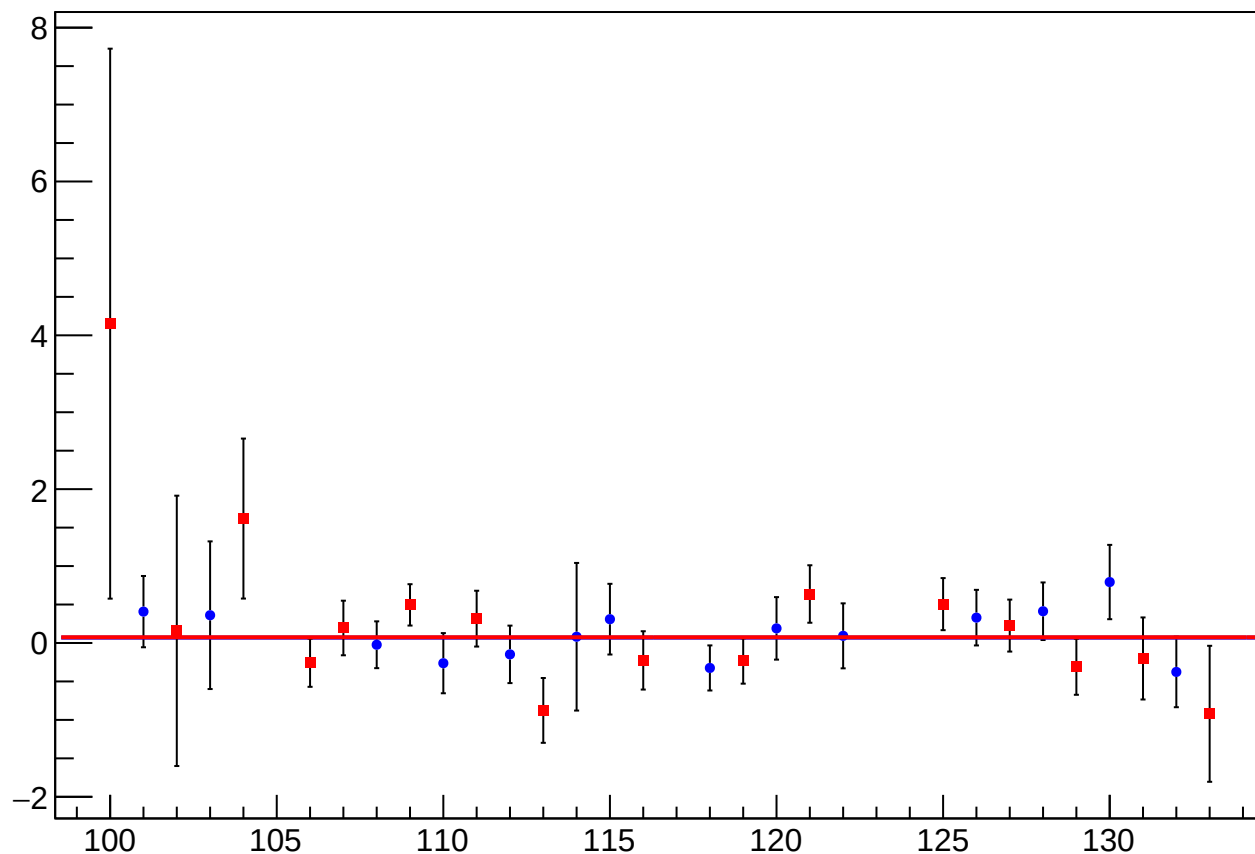
All: 237.245 $\pm$ 0.052  $\chi^2$ /NDF: 2687844.8/29

- 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\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.070+/-0.110  $\chi^2/\text{NDF}$ : 8.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.074+/-0.099  $\chi^2/\text{NDF}$ : 21.2/15

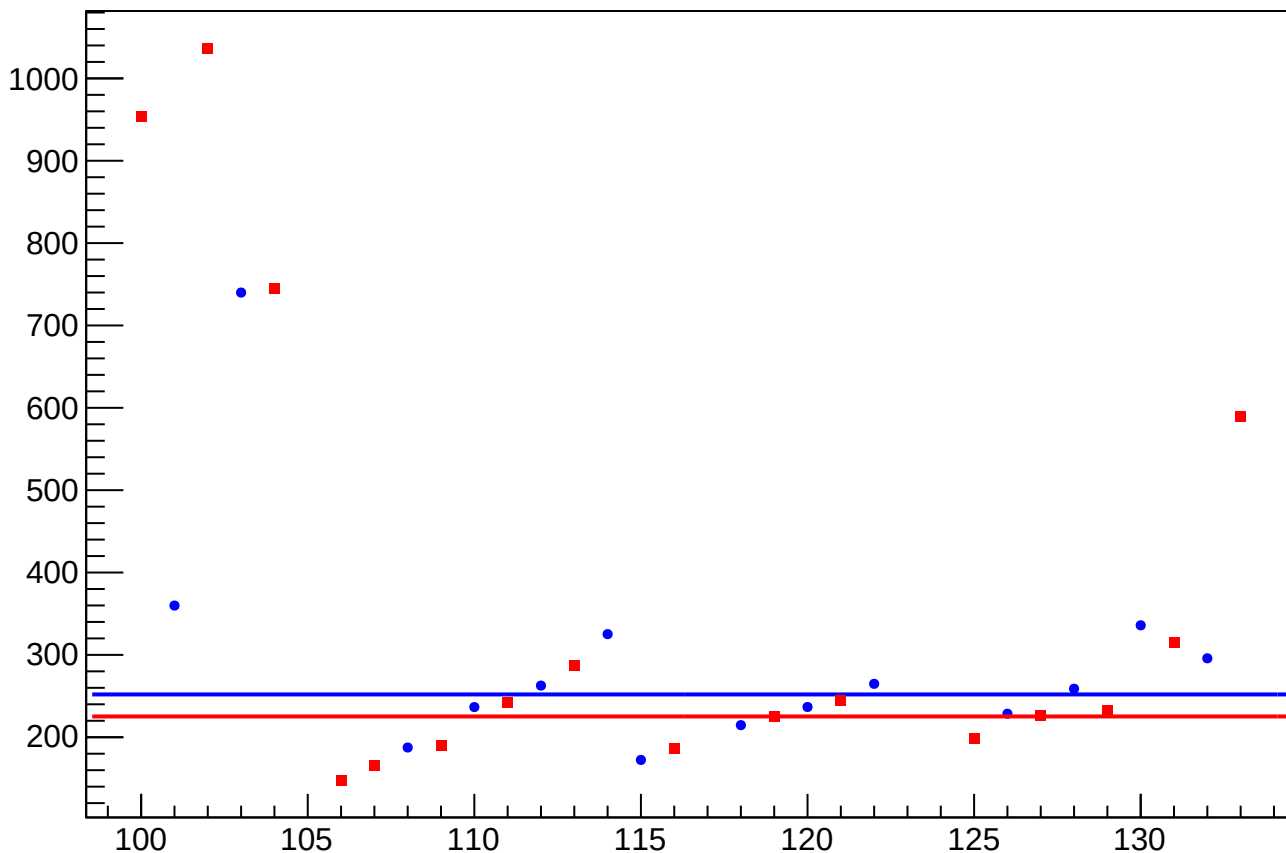
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.072+/-0.073  $\chi^2/\text{NDF}$ : 29.7/29

- sign 0.000+/-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: 251.967+/-0.078  $\chi^2/\text{NDF}$ : 916041.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 225.231+/-0.070  $\chi^2/\text{NDF}$ : 1706317.6/15

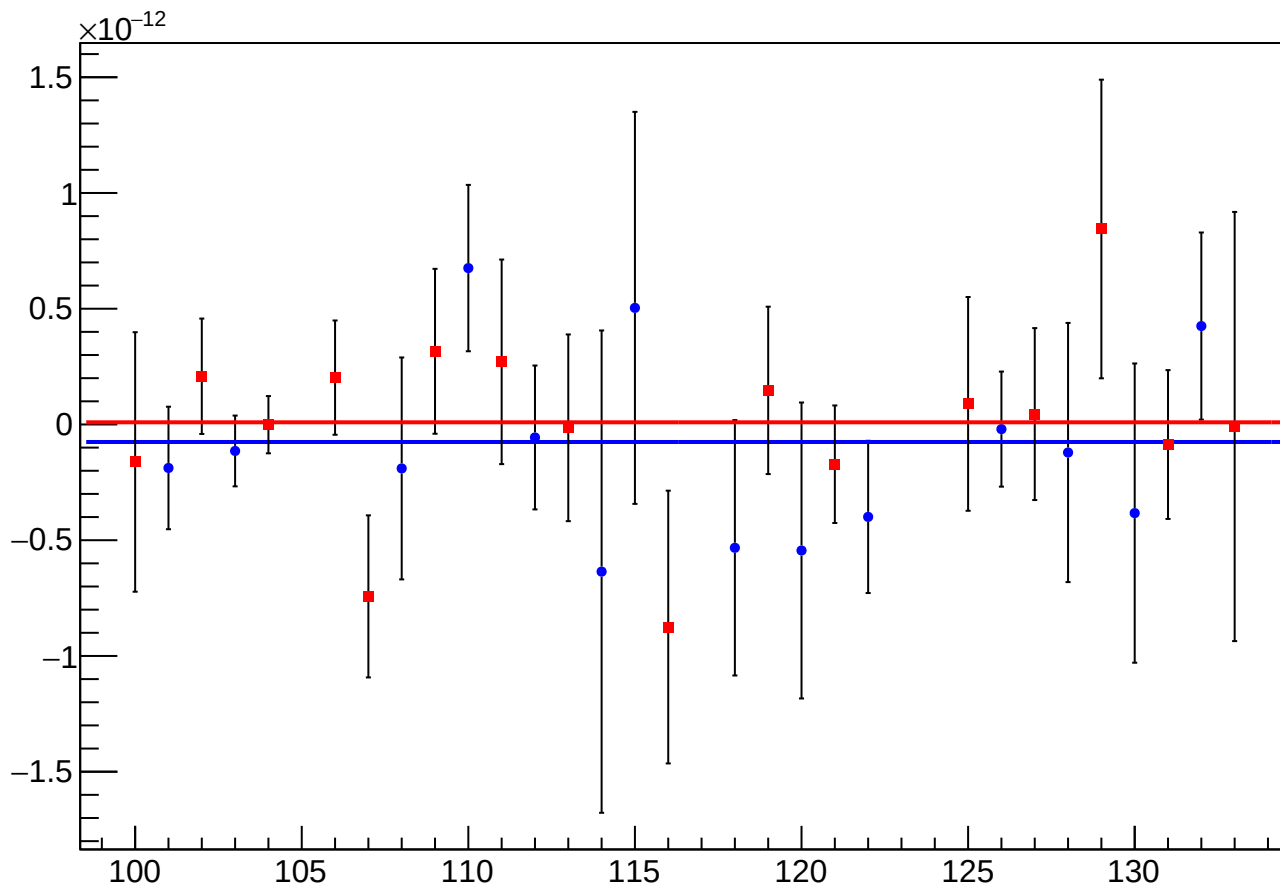
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 237.245+/-0.052  $\chi^2/\text{NDF}$ : 2687844.8/29

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 9.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.8/15

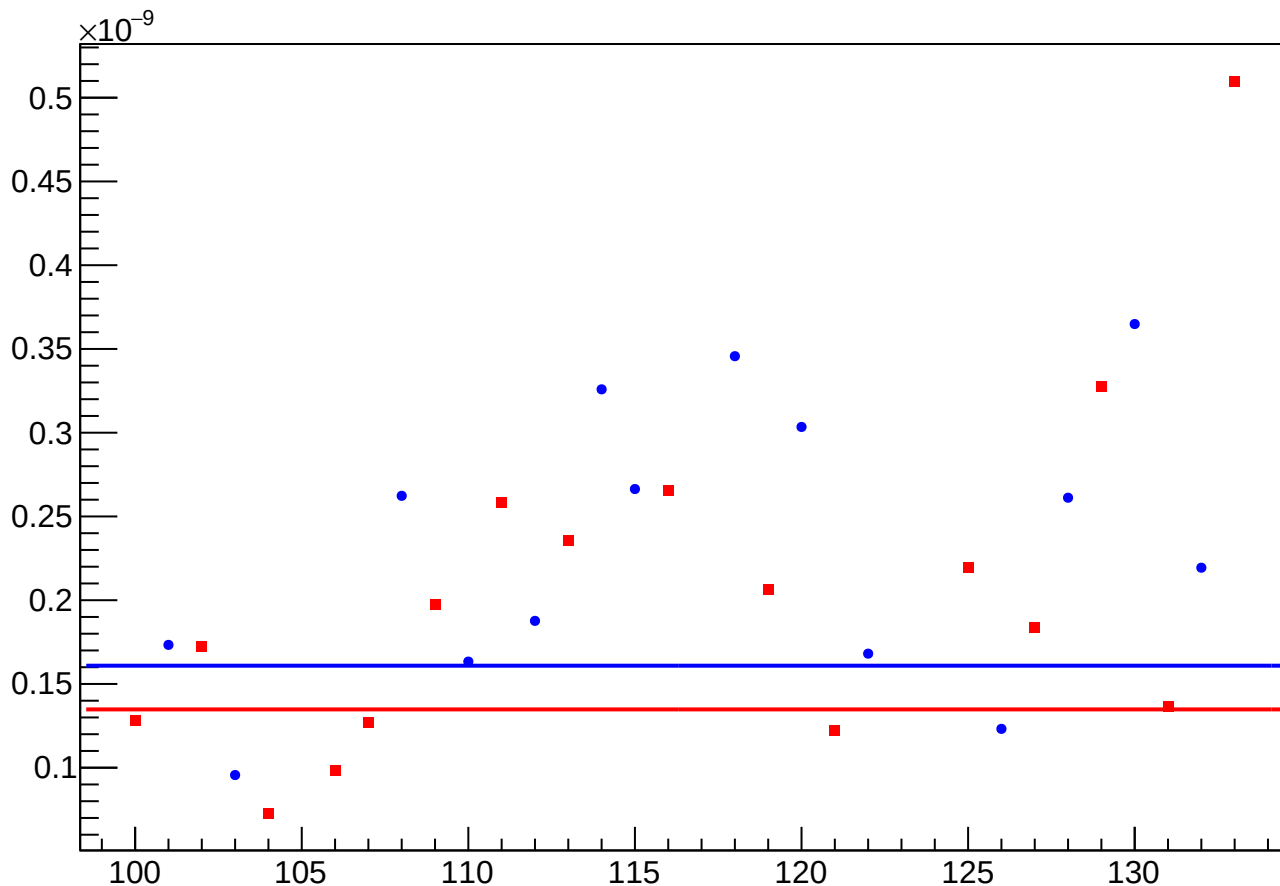
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 21.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1230846.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1727448.6/15

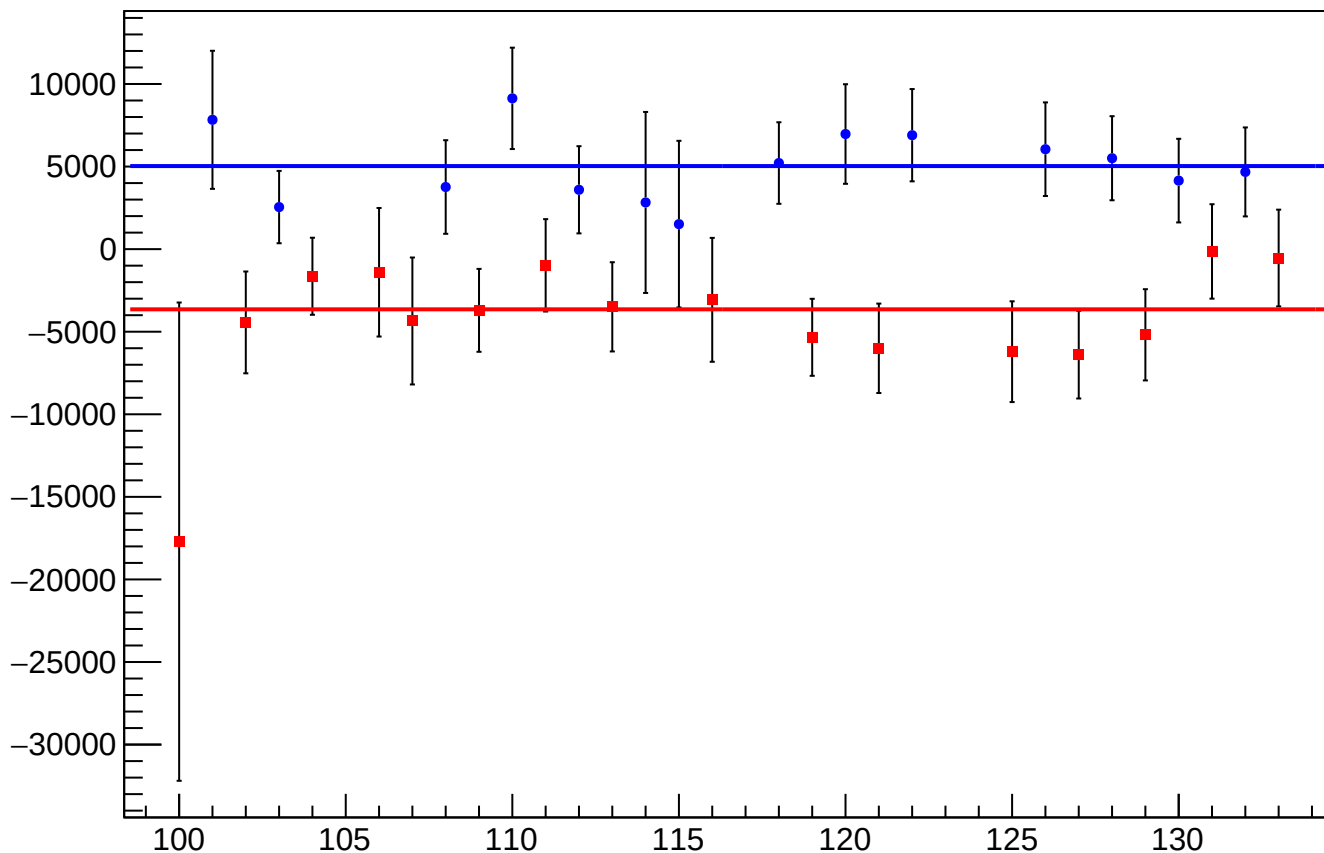
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3058515.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug



Right In: 5030.000+/-769.866  $\chi^2/\text{NDF}$ : 5.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3644.225+/-732.881  $\chi^2/\text{NDF}$ : 9.1/15

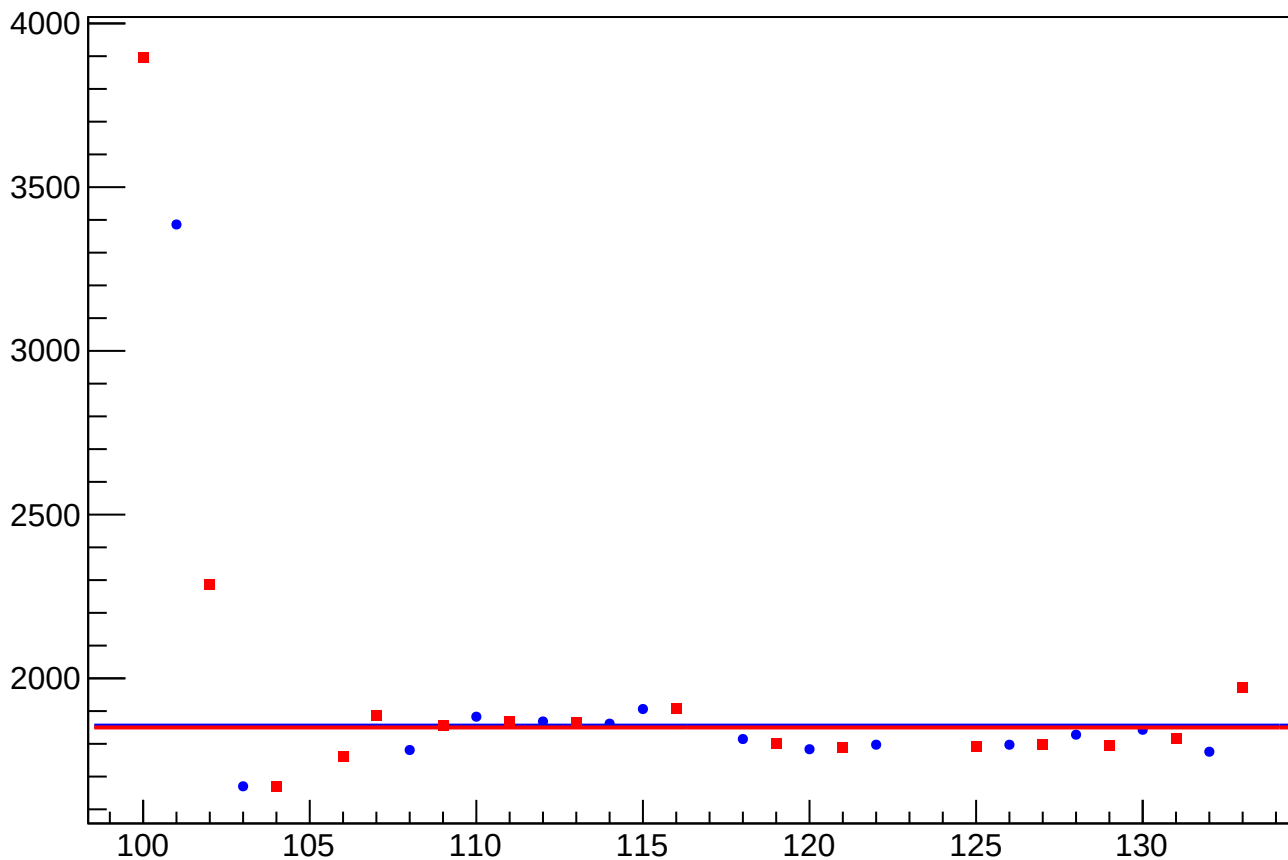
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 479.526+/-530.819  $\chi^2/\text{NDF}$ : 81.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 1855.615+/-0.544  $\chi^2/\text{NDF}$ : 289608.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1849.999+/-0.516  $\chi^2/\text{NDF}$ : 101915.8/15

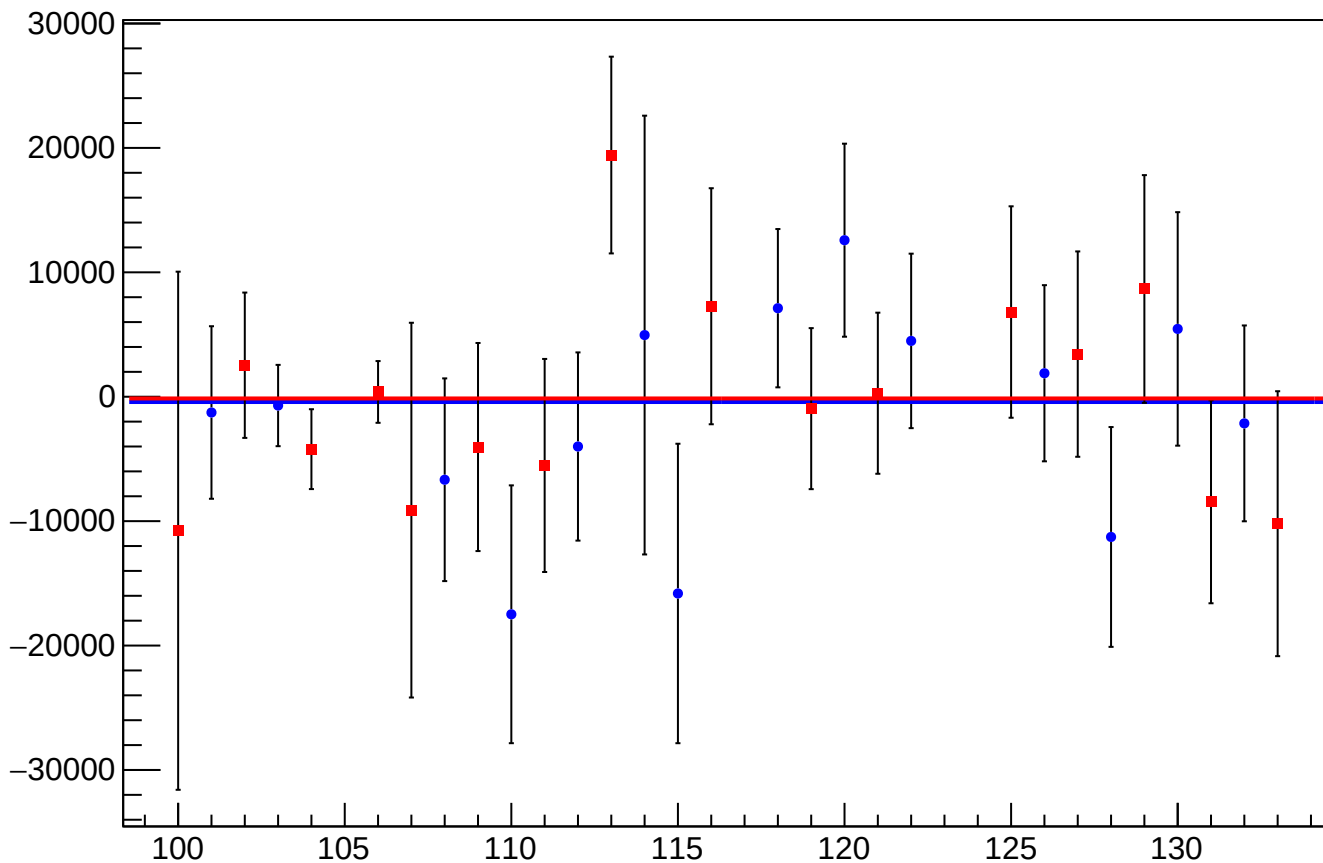
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1852.659+/-0.375  $\chi^2/\text{NDF}$ : 391579.9/29

- 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: -424.325+/-1862.246  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -138.249+/-1470.224  $\chi^2/\text{NDF}$ : 13.6/15

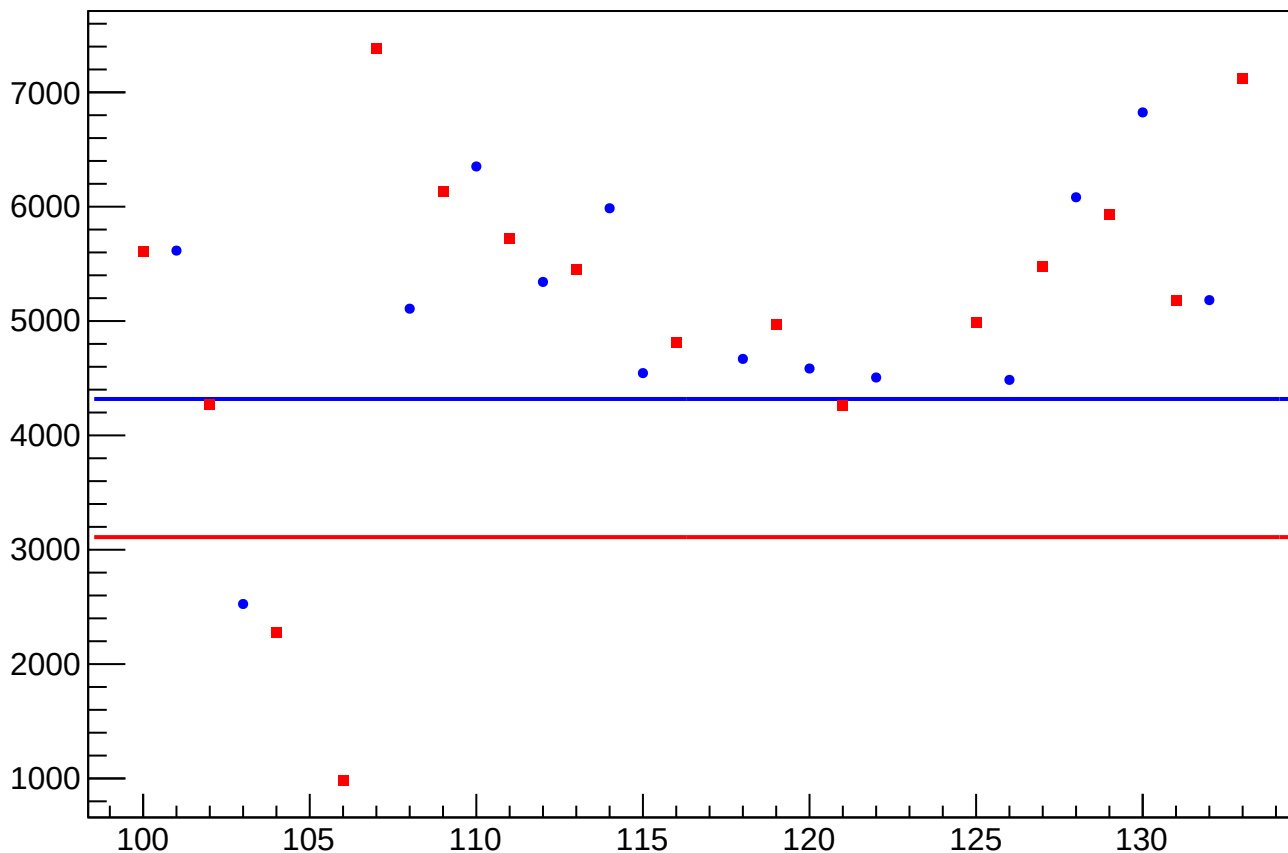
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -248.093+/-1153.945  $\chi^2/\text{NDF}$ : 25.6/29

- 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: 4318.395+/-1.317  $\chi^2/\text{NDF}$ : 1080583.3/13

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: 3110.587+/-1.040  $\chi^2/\text{NDF}$ : 3654375.7/15

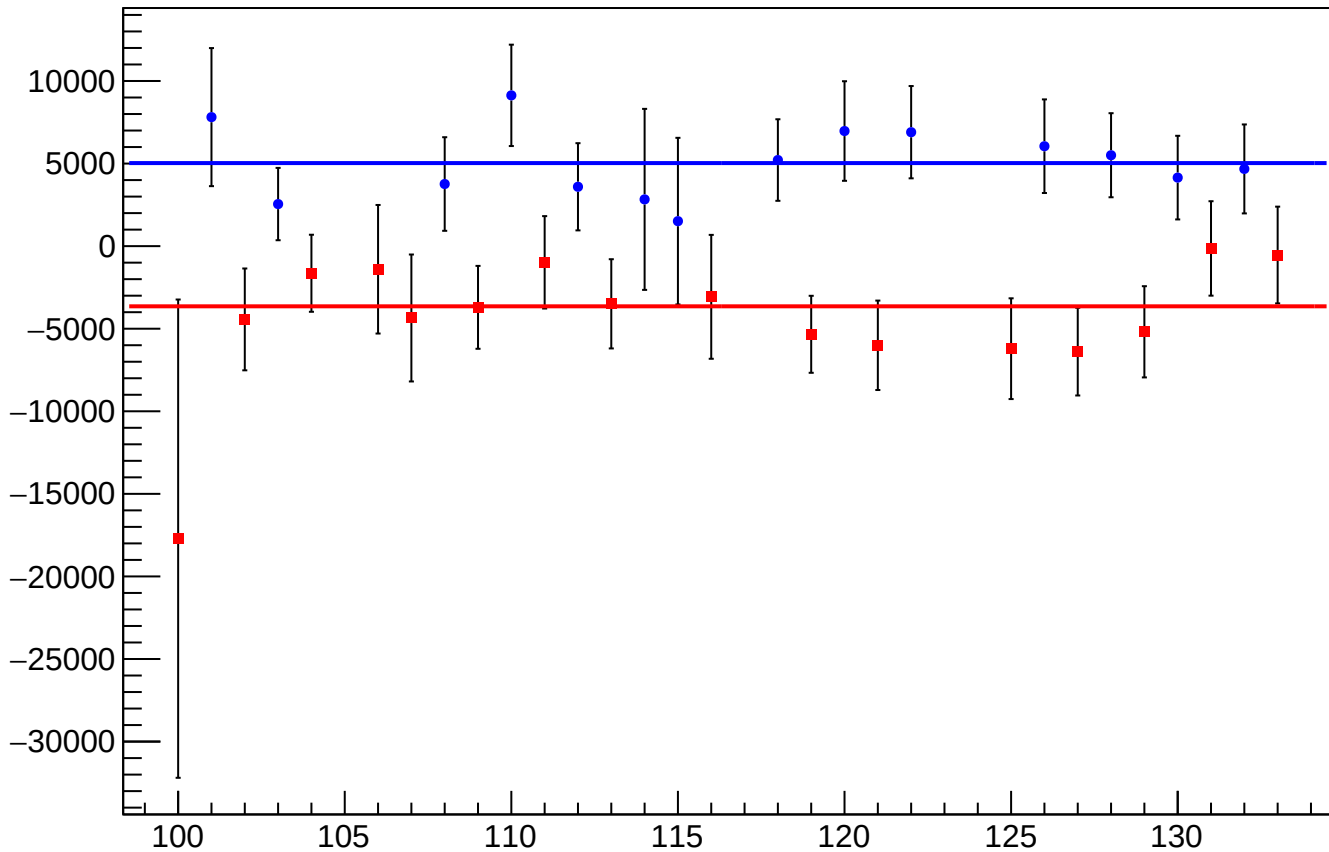
All: 3574.347+/-0.816  $\chi^2/\text{NDF}$ : 5253226.9/29

- 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: 5029.484+/-769.867  $\chi^2/\text{NDF}$ : 5.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3643.964+/-732.881  $\chi^2/\text{NDF}$ : 9.1/15

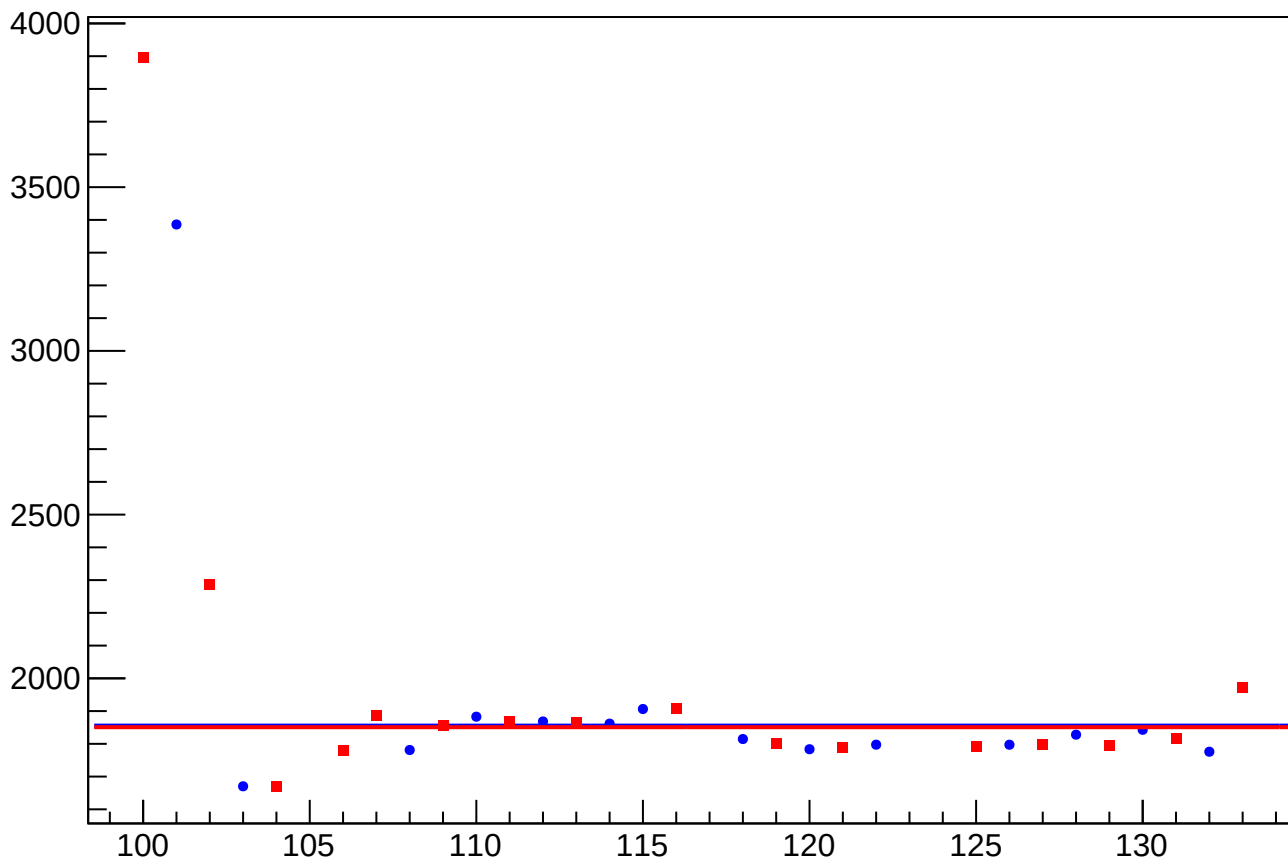
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 479.416+/-530.819  $\chi^2/\text{NDF}$ : 81.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

cor\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 1855.615+/-0.544  $\chi^2/\text{NDF}$ : 289609.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1850.779+/-0.517  $\chi^2/\text{NDF}$ : 101465.7/15

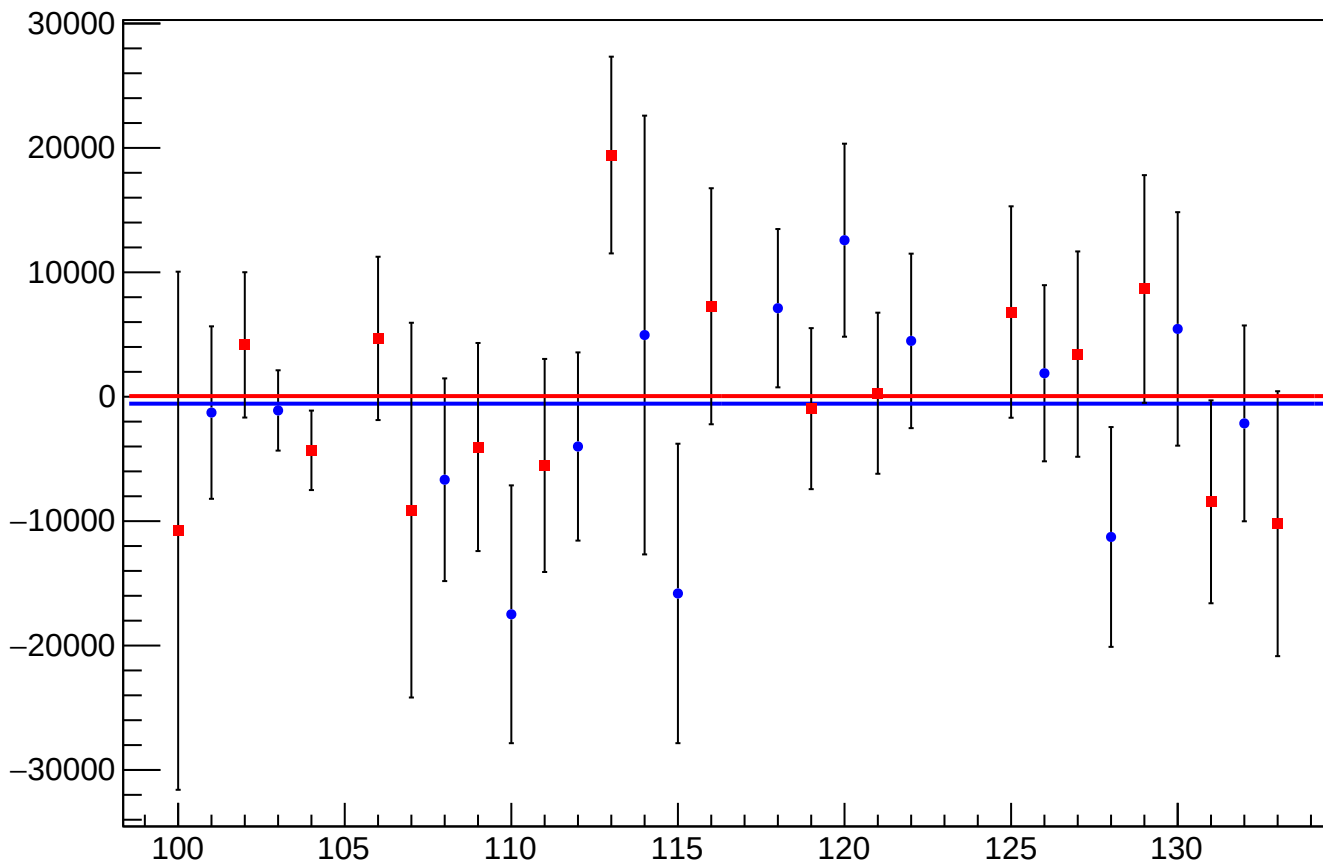
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1853.071+/-0.375  $\chi^2/\text{NDF}$ : 391117.2/29

- 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: -557.292+/-1854.837  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 51.867+/-1755.716  $\chi^2/\text{NDF}$ : 14.5/15

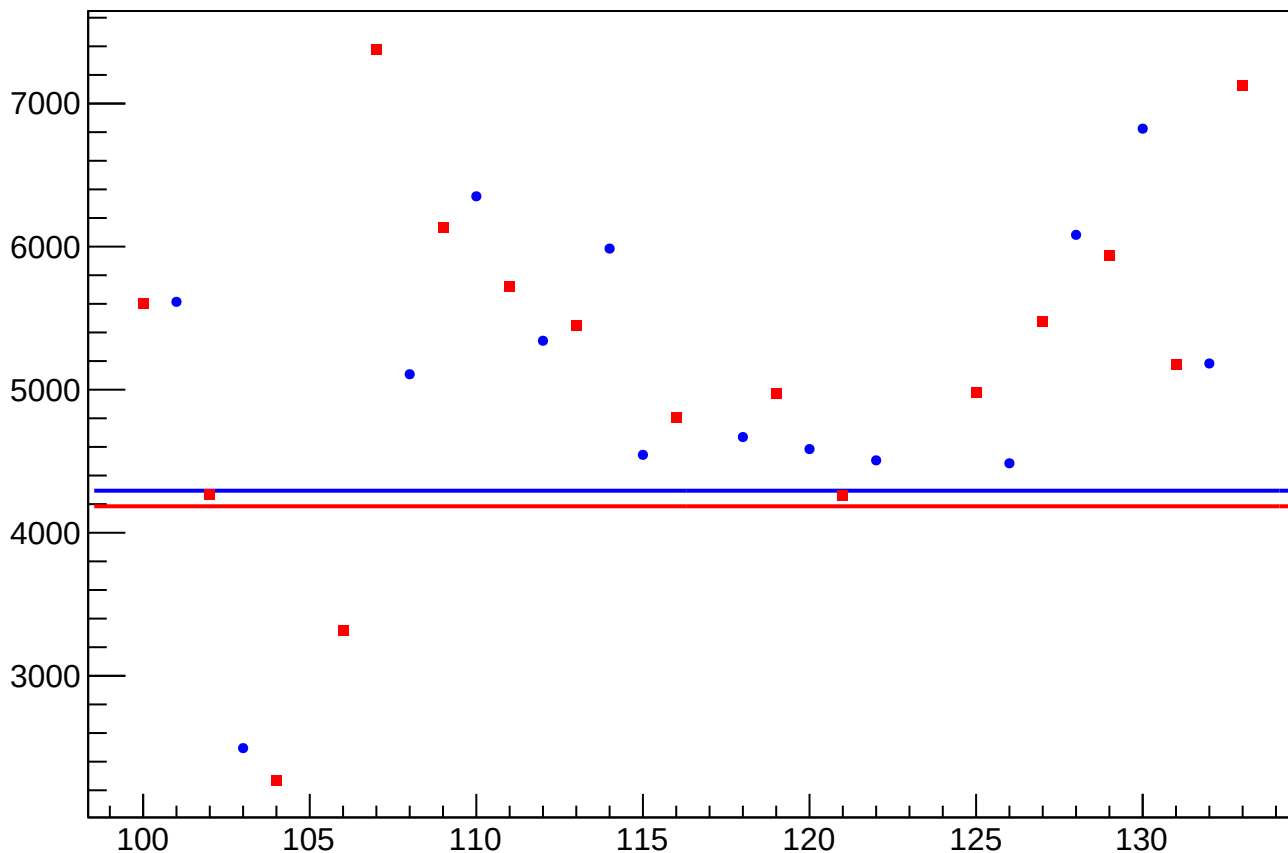
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -236.002+/-1275.081  $\chi^2/\text{NDF}$ : 26.6/29

- 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: 4293.969+/-1.312  $\chi^2/\text{NDF}$ : 1116284.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4185.041+/-1.241  $\chi^2/\text{NDF}$ : 1438922.1/15

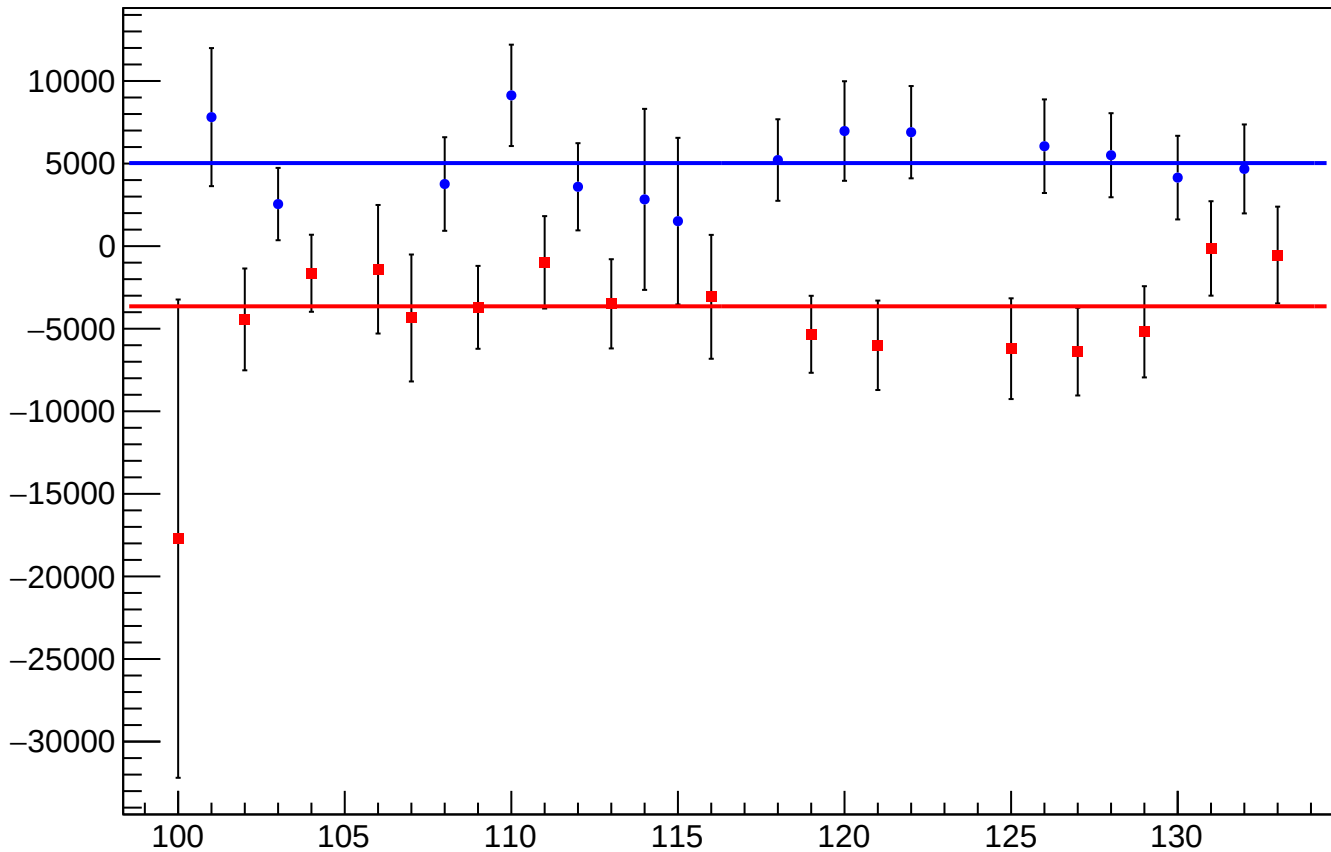
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4236.517+/-0.902  $\chi^2/\text{NDF}$ : 2558844.8/29

- 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: 5029.484+/-769.867  $\chi^2/\text{NDF}$ : 5.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3643.964+/-732.881  $\chi^2/\text{NDF}$ : 9.1/15

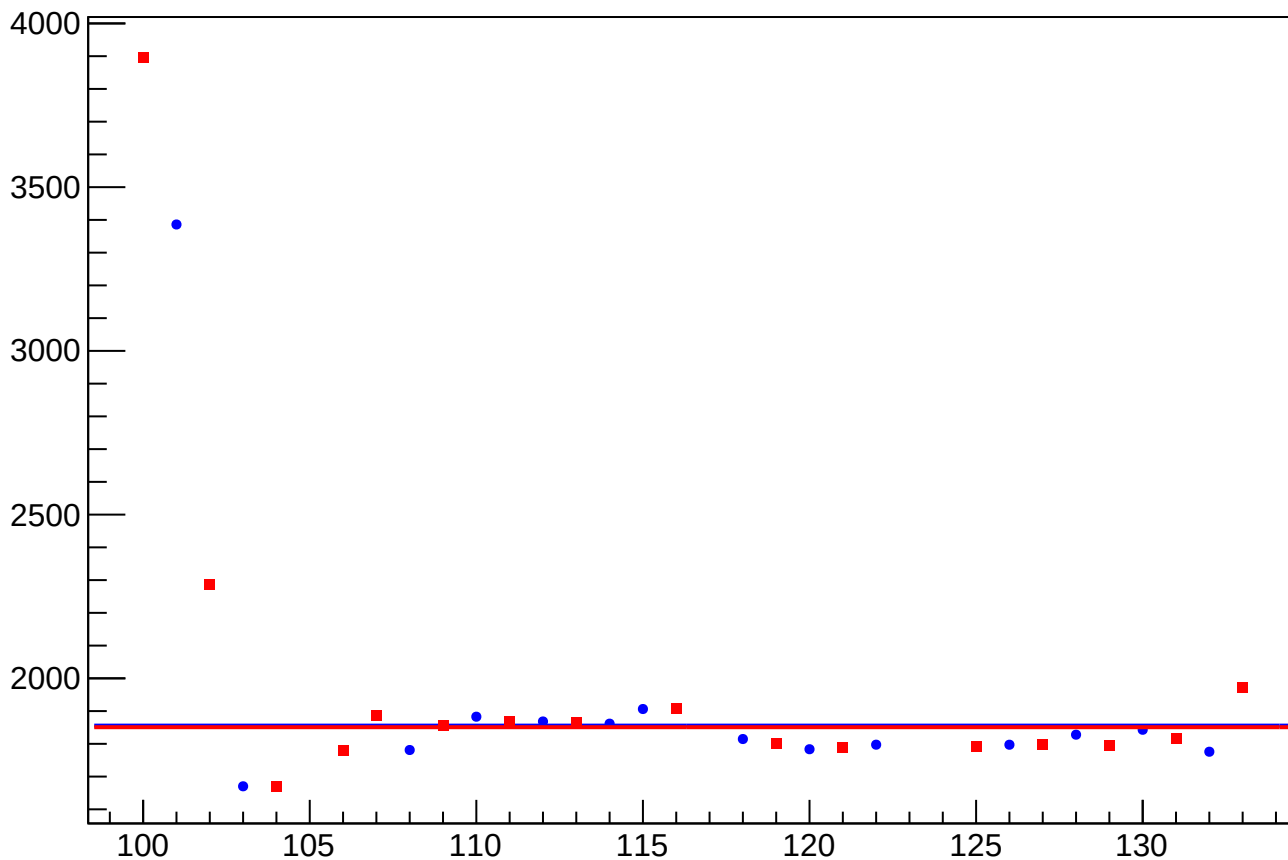
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 479.416+/-530.819  $\chi^2/\text{NDF}$ : 81.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 1855.615+/-0.544  $\chi^2/\text{NDF}$ : 289609.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1850.779+/-0.517  $\chi^2/\text{NDF}$ : 101465.7/15

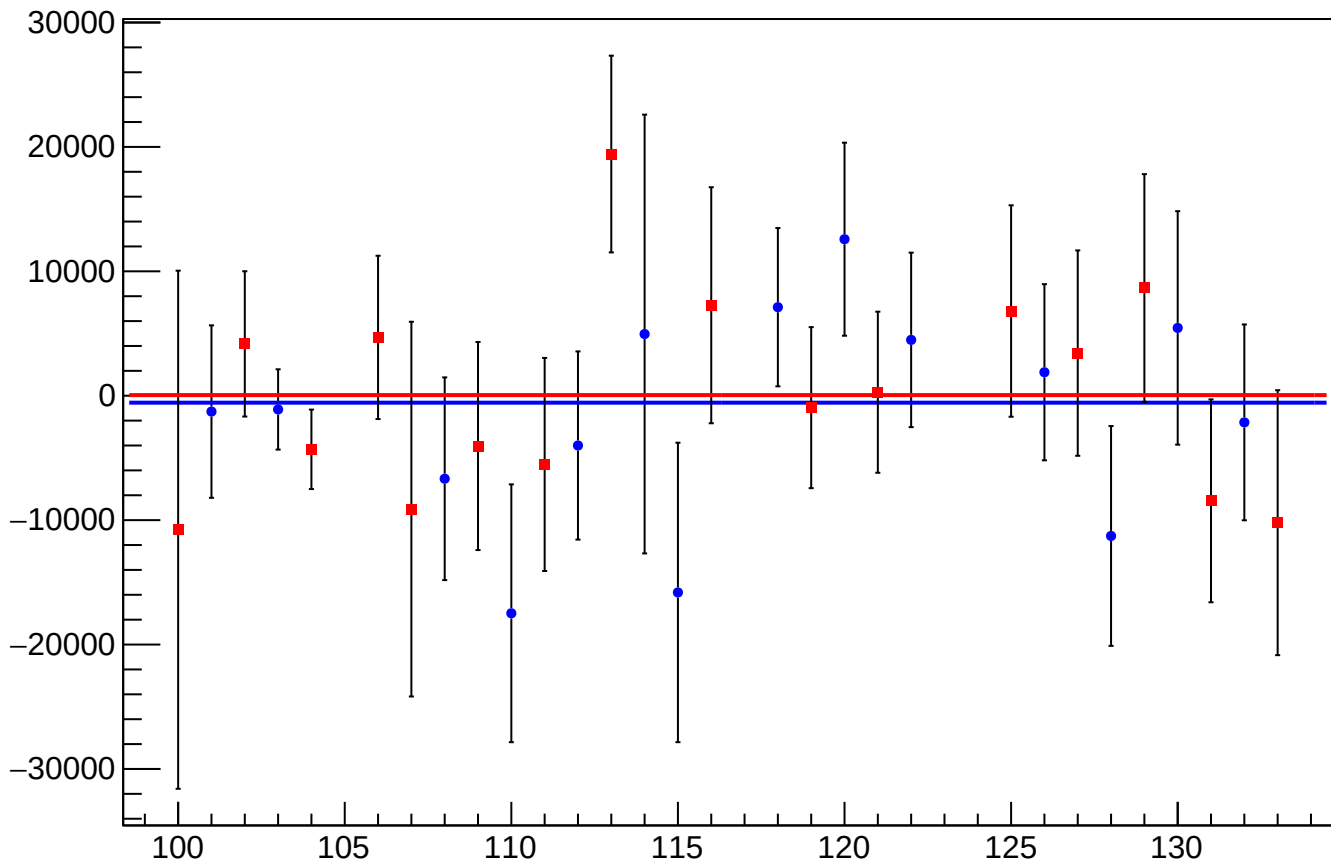
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1853.071+/-0.375  $\chi^2/\text{NDF}$ : 391117.2/29

- 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: -557.292 $\pm$ 1854.837  $\chi^2$ /NDF: 12.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 51.867 $\pm$ 1755.716  $\chi^2$ /NDF: 14.5/15

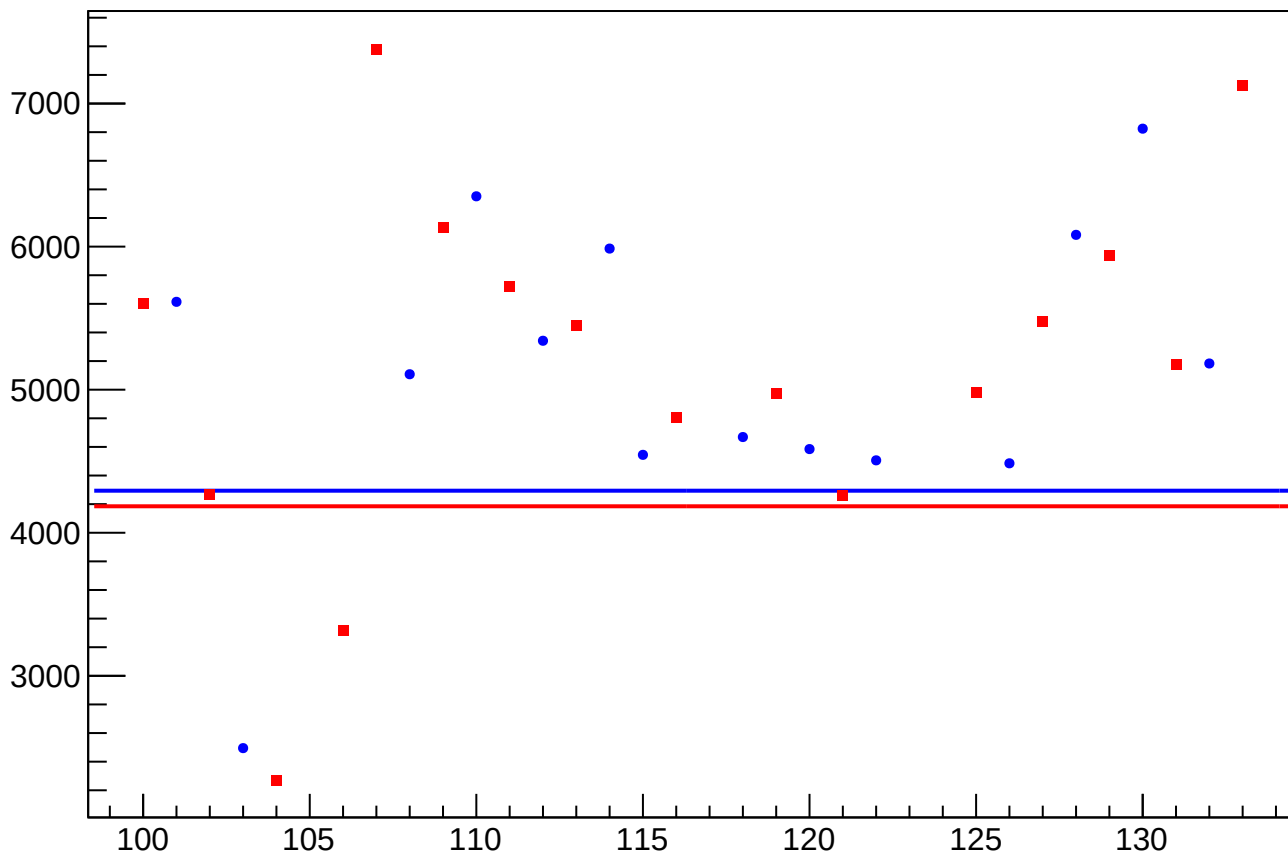
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -236.002 $\pm$ 1275.081  $\chi^2$ /NDF: 26.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 4293.969+/-1.312  $\chi^2/\text{NDF}$ : 1116284.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4185.041+/-1.241  $\chi^2/\text{NDF}$ : 1438922.1/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

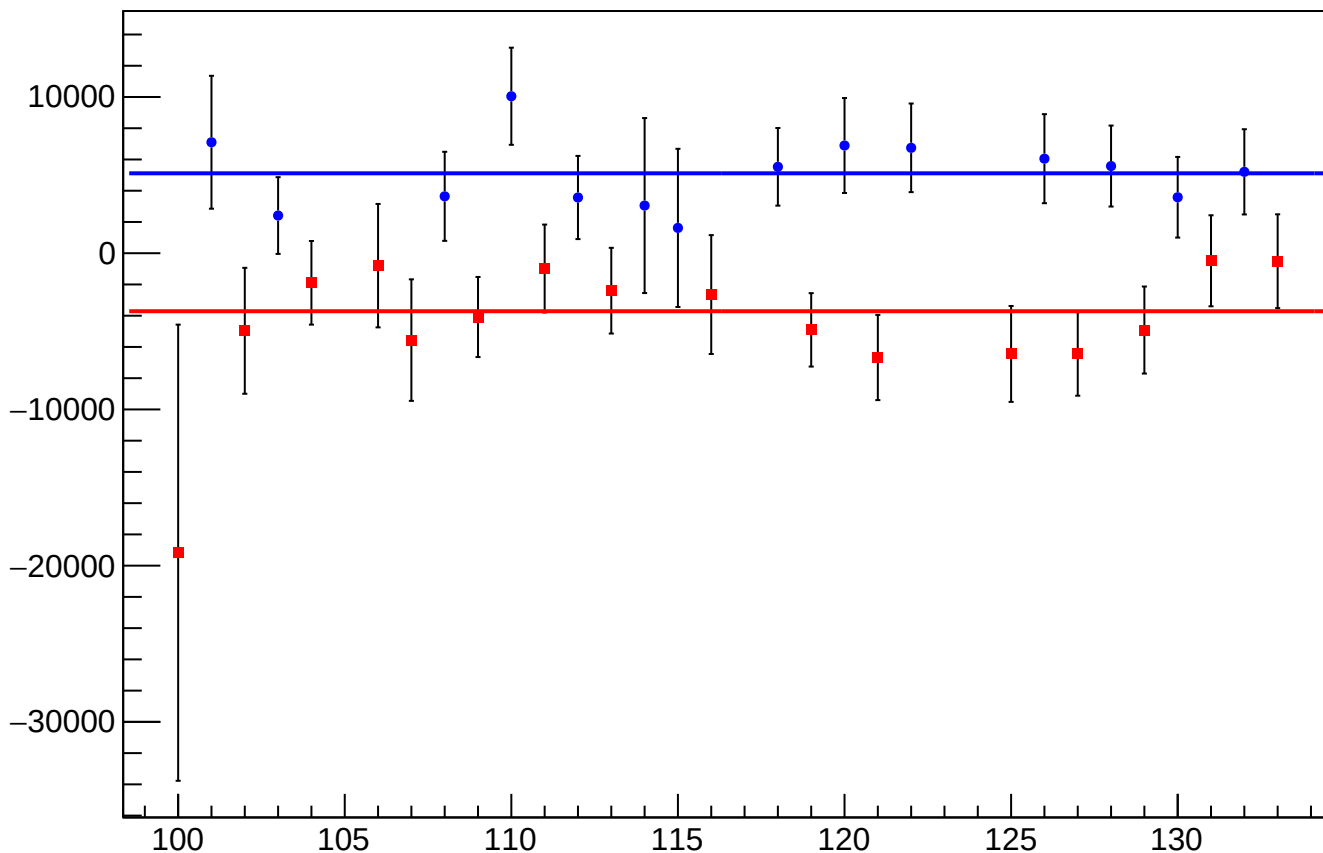
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4236.517+/-0.902  $\chi^2/\text{NDF}$ : 2558844.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug



Right In: 5114.913+/-788.019  $\chi^2/\text{NDF}$ : 6.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3713.382+/-759.057  $\chi^2/\text{NDF}$ : 9.6/15

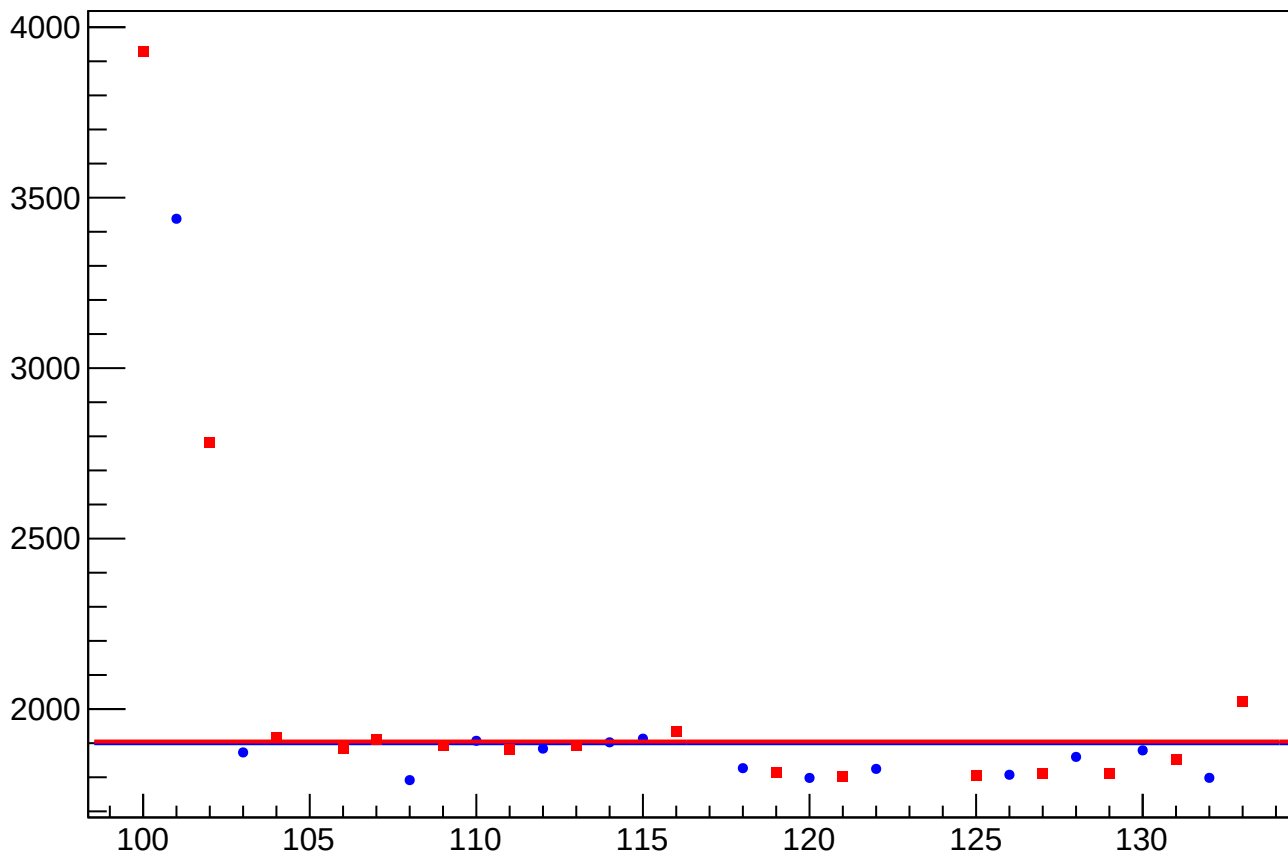
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 535.549+/-546.686  $\chi^2/\text{NDF}$ : 81.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 1899.829+/-0.557  $\chi^2/\text{NDF}$ : 275708.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1904.806+/-0.536  $\chi^2/\text{NDF}$ : 149856.0/15

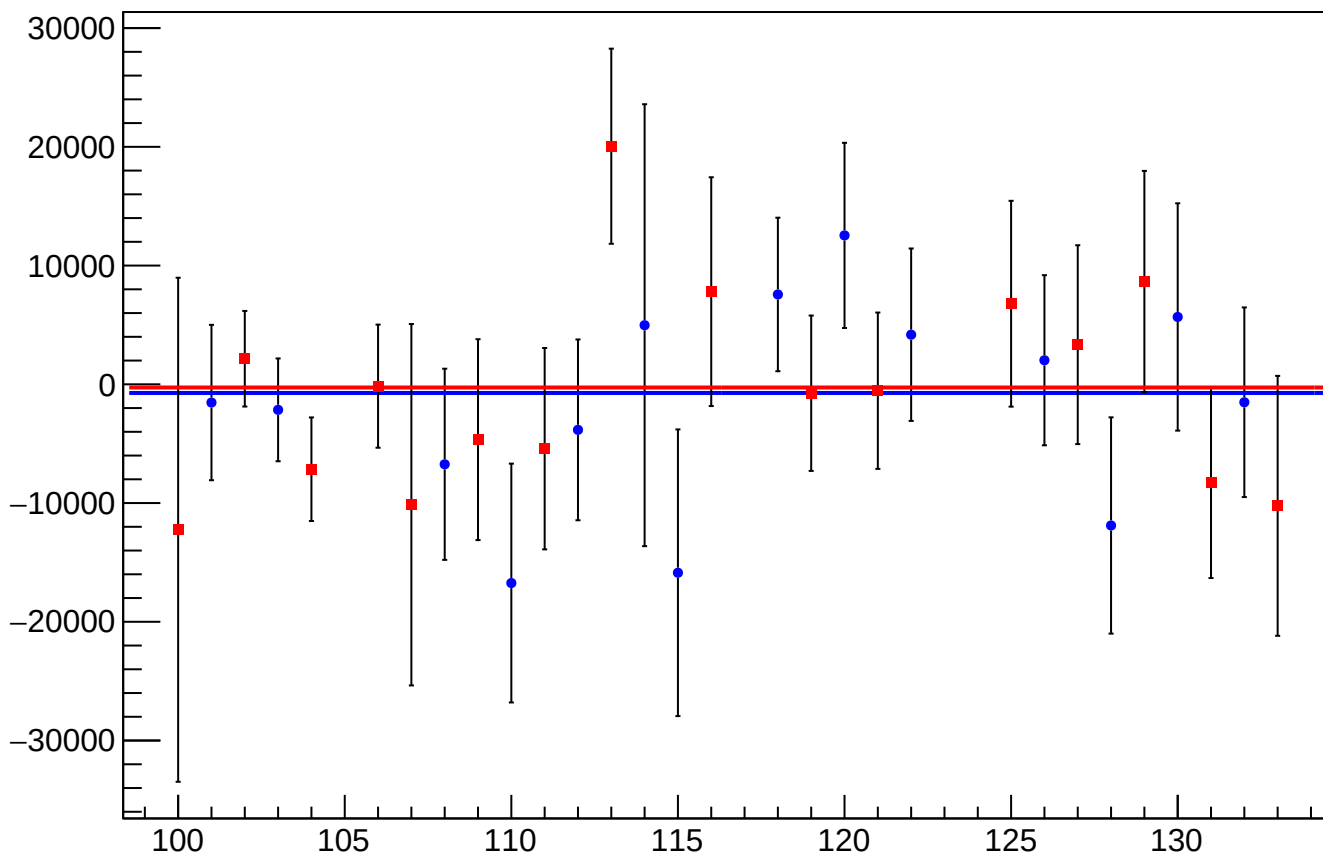
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1902.414+/-0.386  $\chi^2/\text{NDF}$ : 425605.8/29

- 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: -729.254+/-2014.107  $\chi^2/\text{NDF}$ : 12.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -268.724+/-1765.149  $\chi^2/\text{NDF}$ : 14.7/15

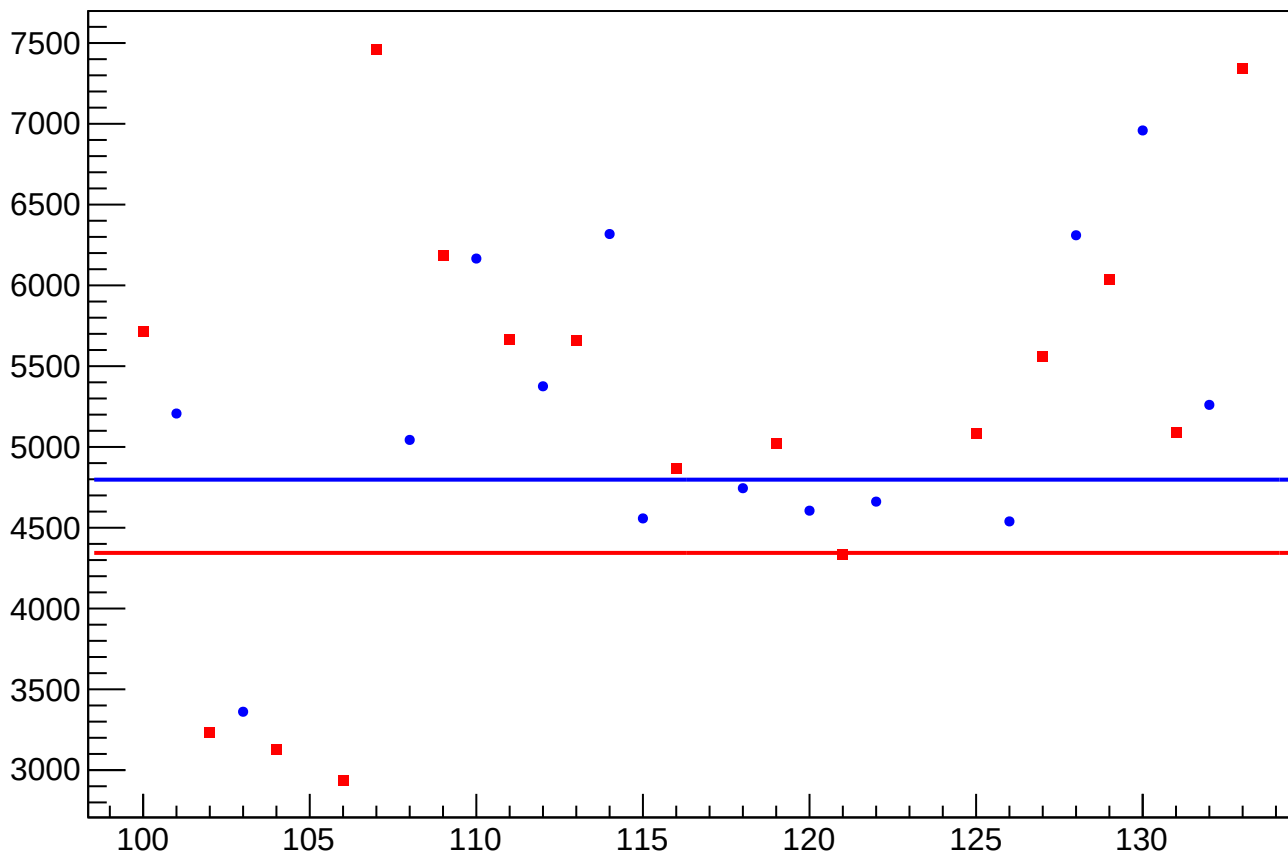
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -468.783+/-1327.493  $\chi^2/\text{NDF}$ : 26.8/29

- 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: 4797.599+/-1.424  $\chi^2/\text{NDF}$ : 461066.6/13

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

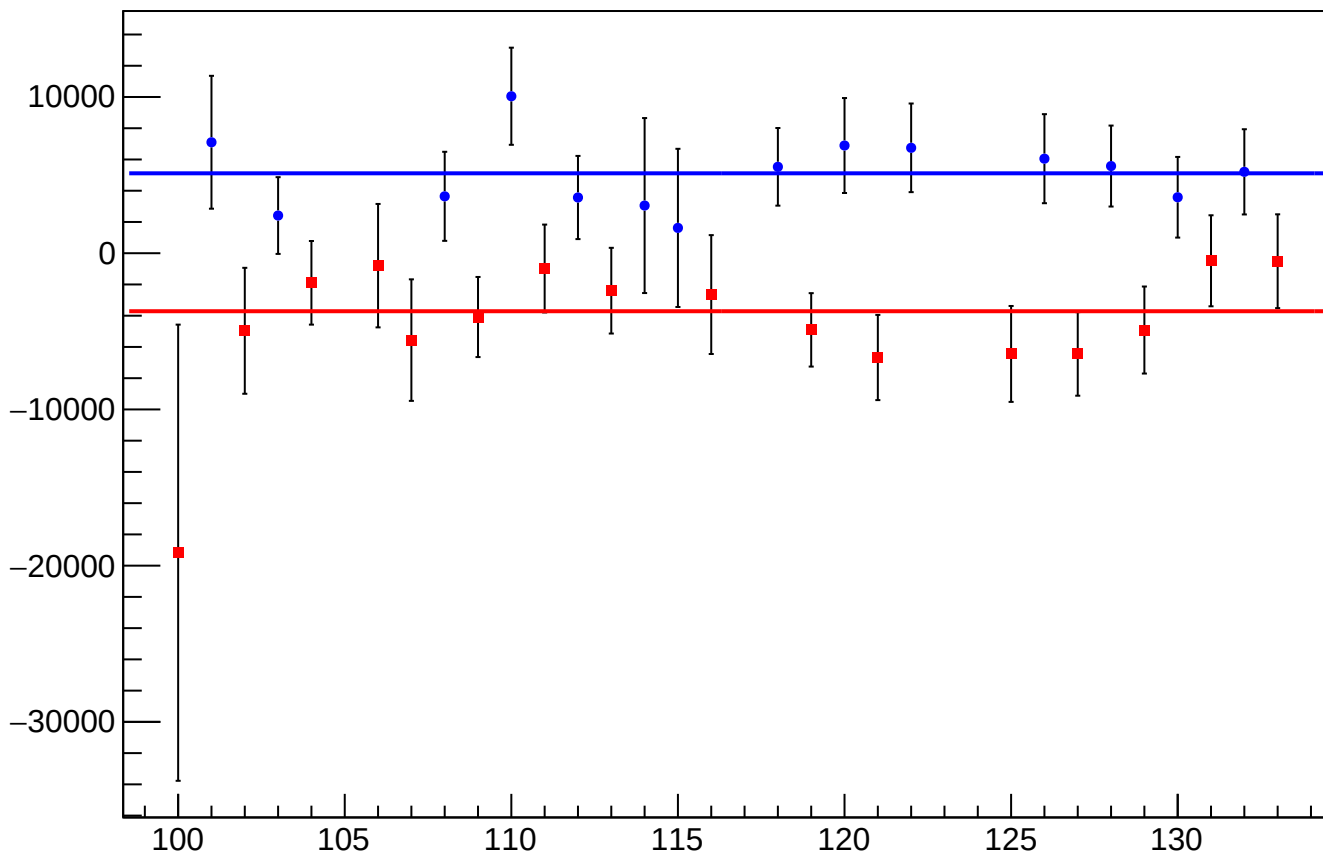
Right Out: 4344.291+/-1.248  $\chi^2/\text{NDF}$ : 1058743.9/15

All: 4541.212+/-0.939  $\chi^2/\text{NDF}$ : 1577110.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug



Right In: 5114.915+/-788.019  $\chi^2$ /NDF: 6.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3713.383+/-759.056  $\chi^2$ /NDF: 9.6/15

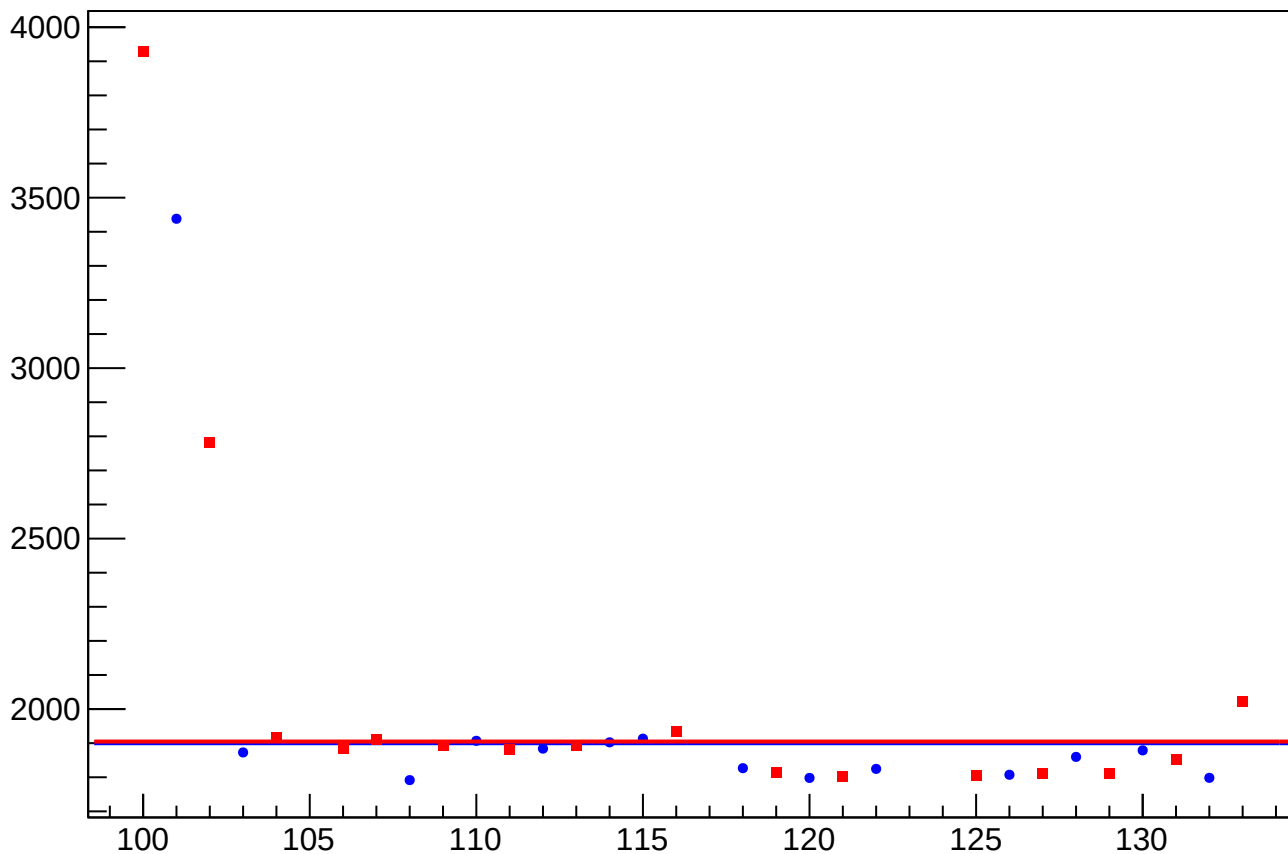
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 535.549+/-546.686  $\chi^2$ /NDF: 81.0/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 1899.828+/-0.557  $\chi^2/\text{NDF}$ : 275708.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1904.805+/-0.536  $\chi^2/\text{NDF}$ : 149855.3/15

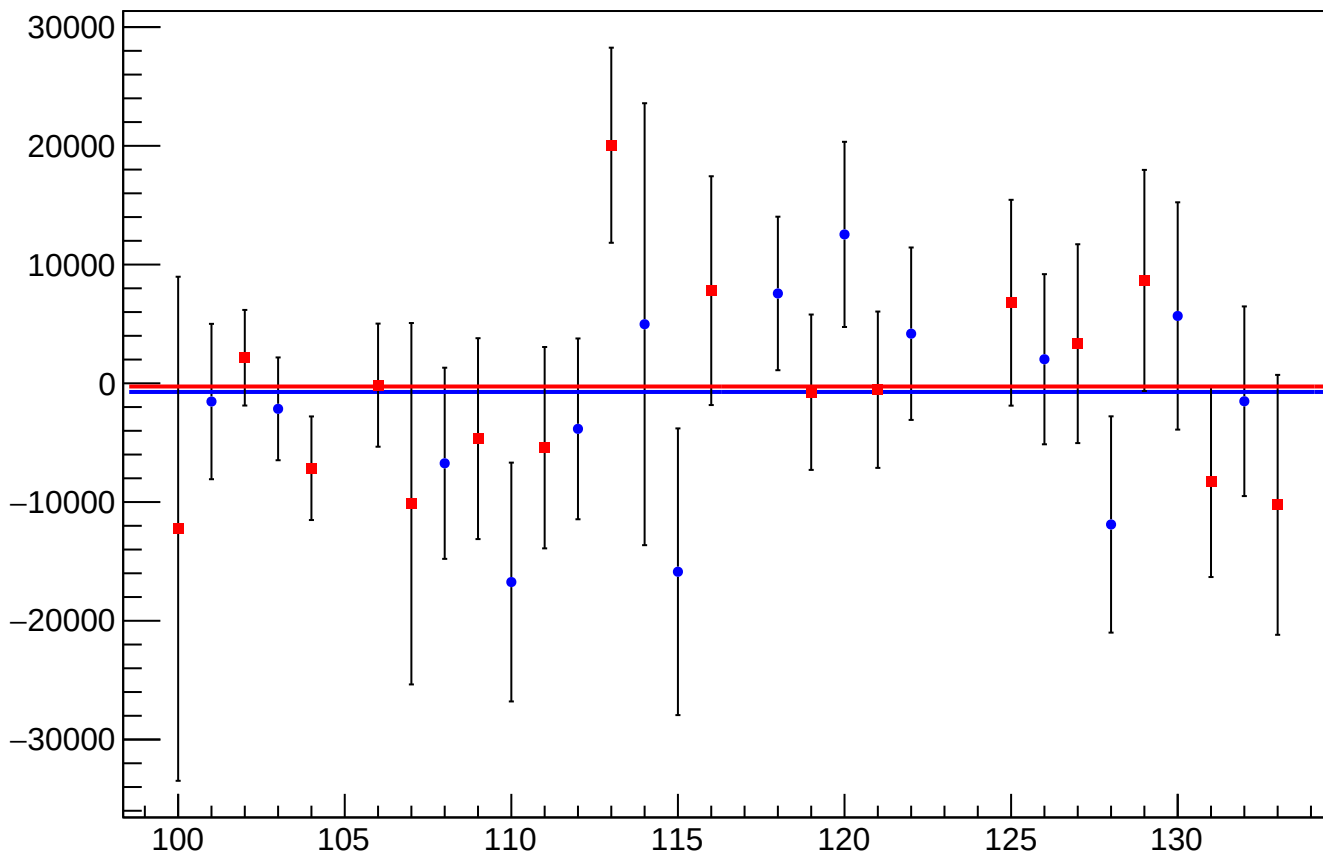
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1902.413+/-0.386  $\chi^2/\text{NDF}$ : 425605.4/29

- 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: -729.249+/-2014.101  $\chi^2/\text{NDF}$ : 12.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -268.725+/-1765.144  $\chi^2/\text{NDF}$ : 14.7/15

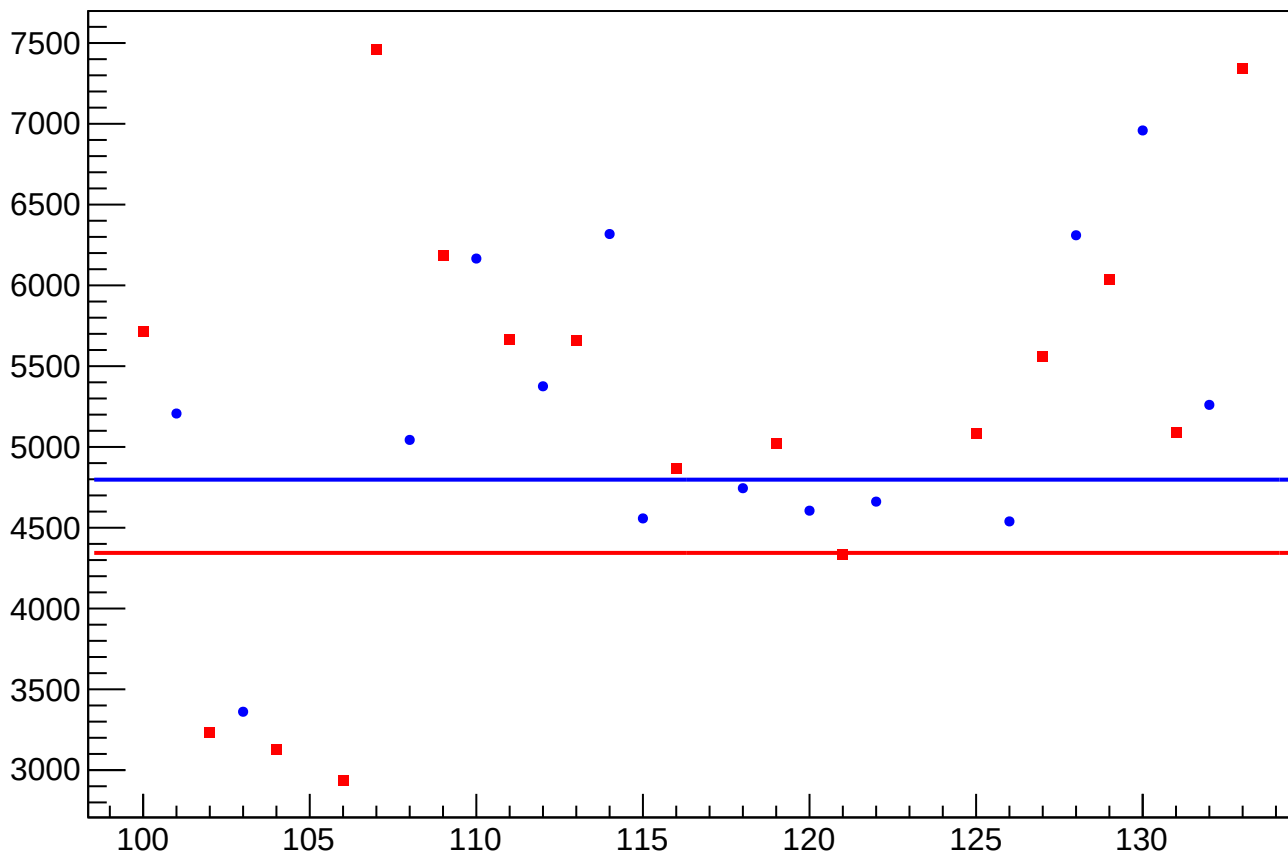
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -468.781+/-1327.489  $\chi^2/\text{NDF}$ : 26.8/29

- 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: 4797.584+/-1.424  $\chi^2/\text{NDF}$ : 461065.7/13

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: 4344.279+/-1.248  $\chi^2/\text{NDF}$ : 1058740.8/15

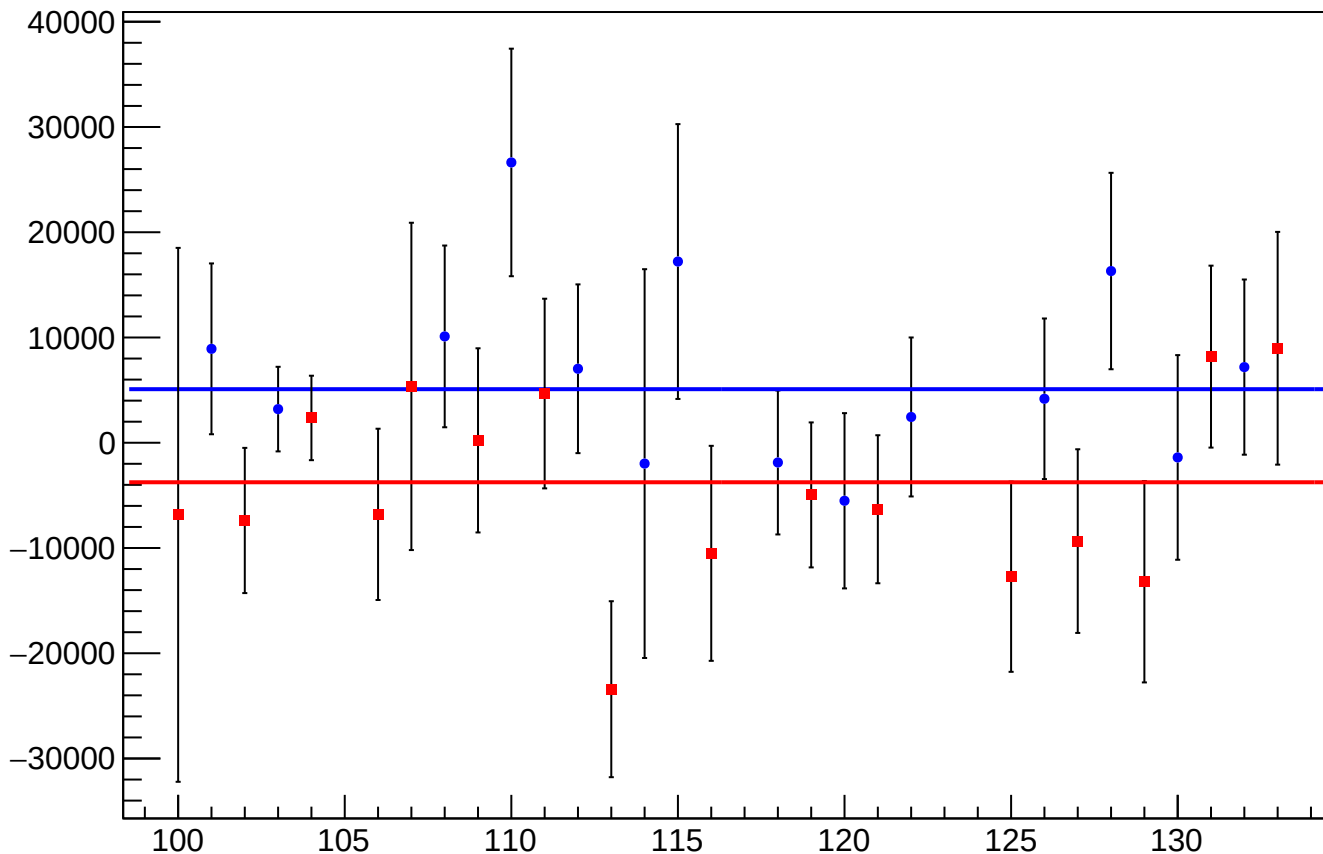
All: 4541.199+/-0.939  $\chi^2/\text{NDF}$ : 1577105.9/29

- 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\_mean vs Slug



Right In: 5089.283+/-2083.067  $\chi^2/\text{NDF}$ : 10.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3754.337+/-1990.513  $\chi^2/\text{NDF}$ : 15.9/15

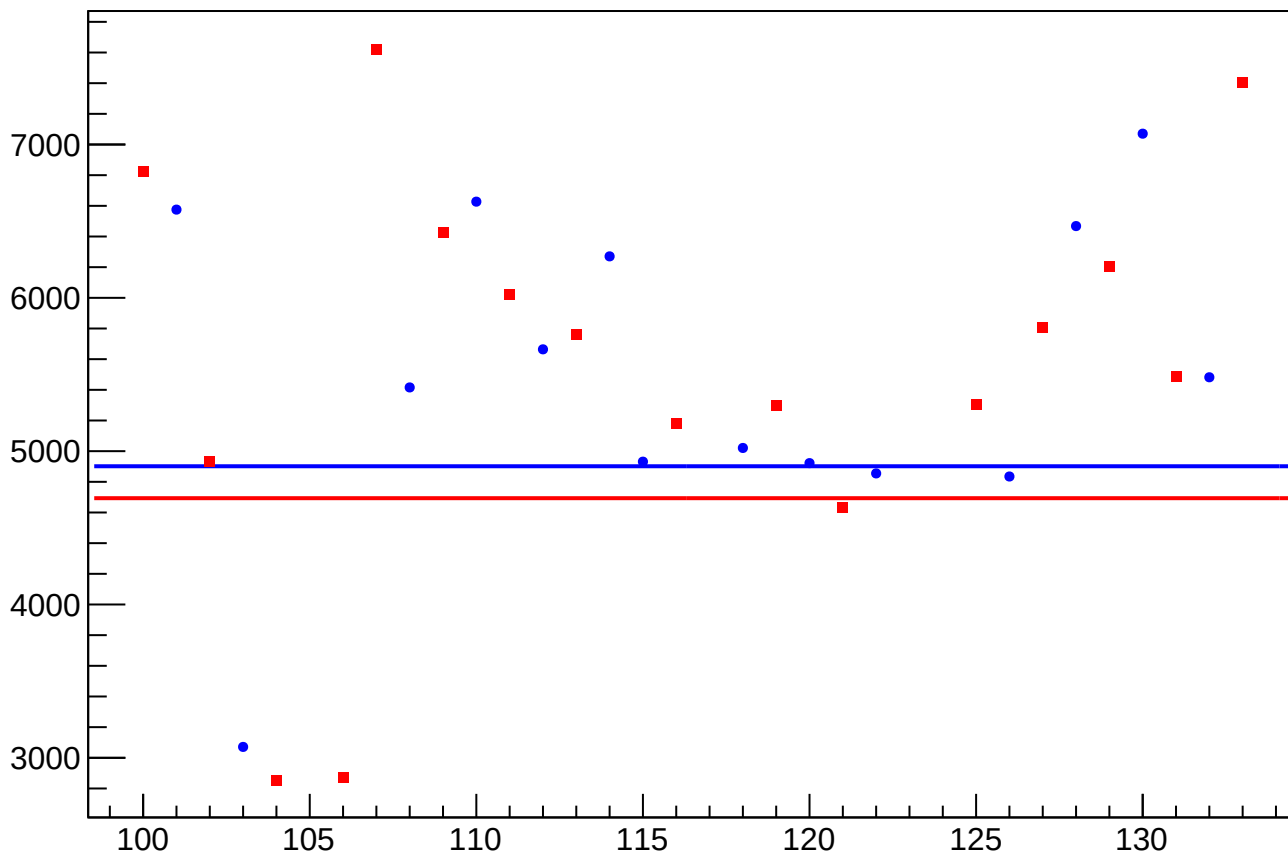
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 466.646+/-1439.113  $\chi^2/\text{NDF}$ : 35.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug



Right In: 4901.566+/-1.473  $\chi^2/\text{NDF}$ : 753703.2/13

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

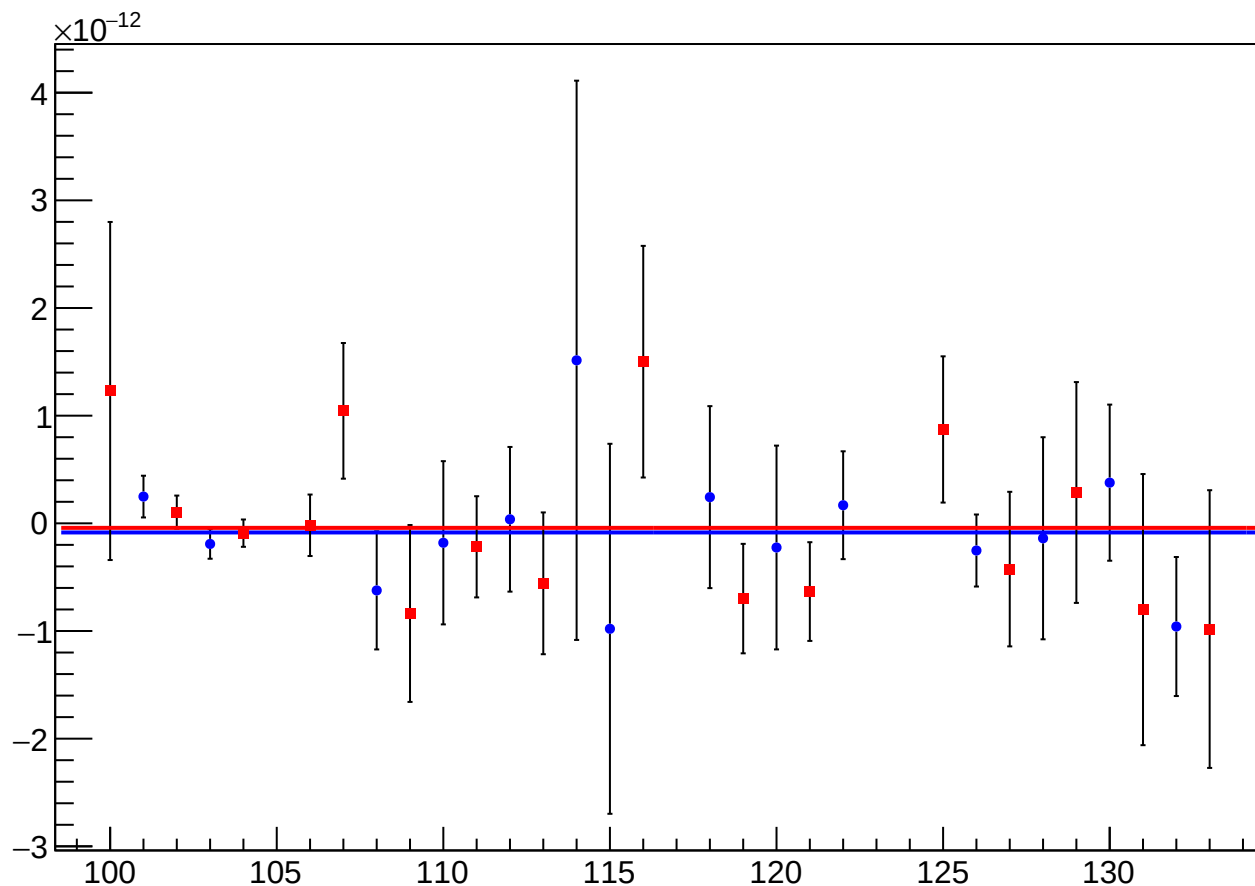
Right Out: 4693.314+/-1.377  $\chi^2/\text{NDF}$ : 1086293.2/15

All: 4790.448+/-1.006  $\chi^2/\text{NDF}$ : 1850662.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.9/15

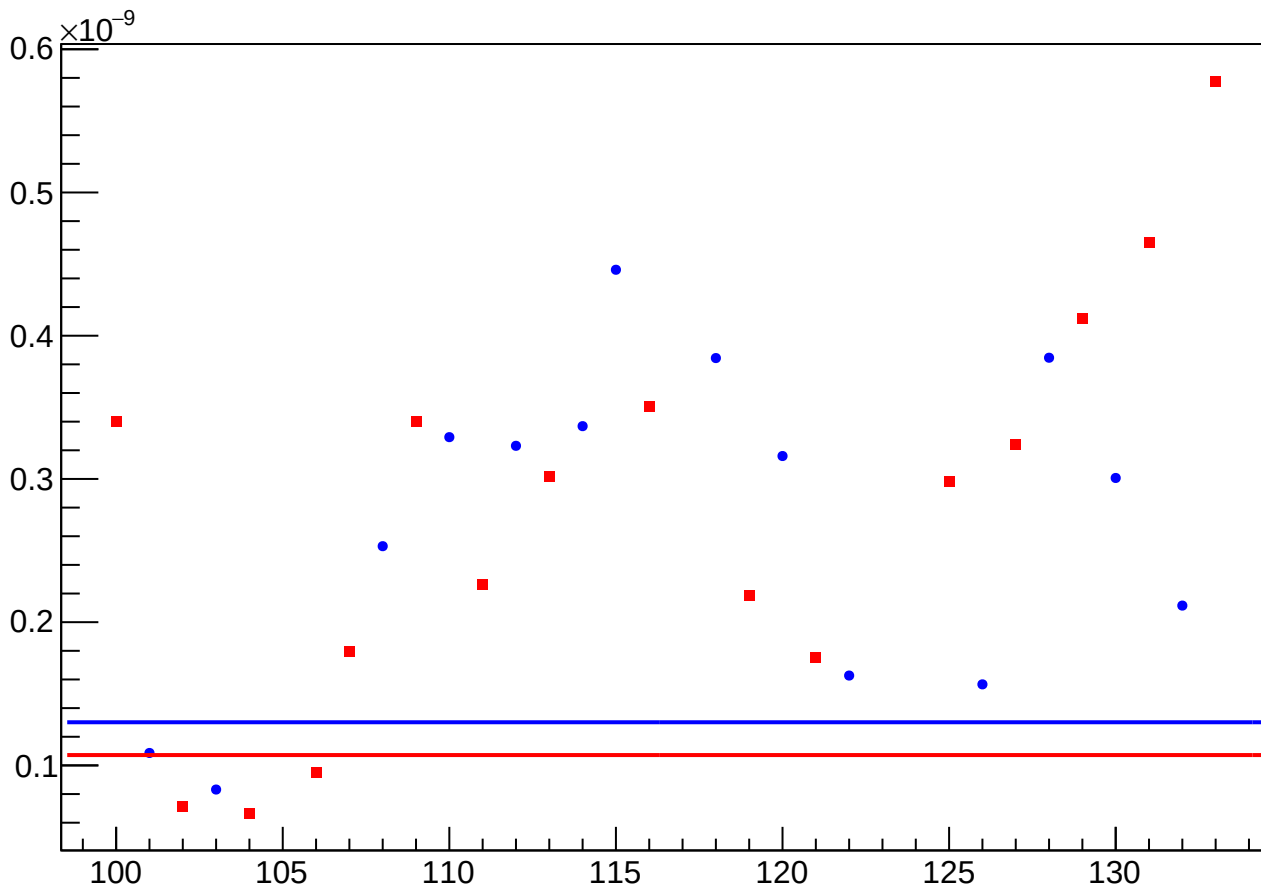
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 23.1/29

- 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  $\chi^2/\text{NDF}$ : 1310723.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2041580.2/15

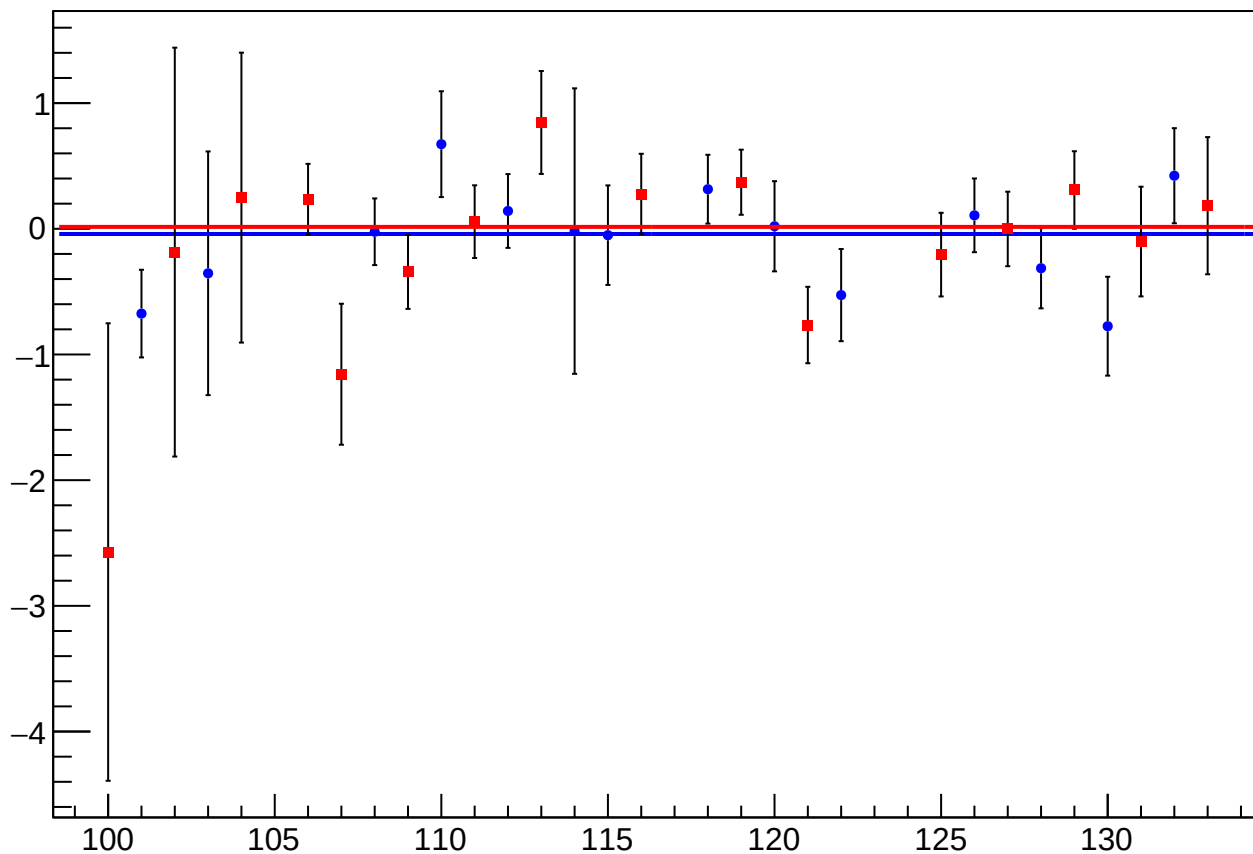
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3417059.9/29

- 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:  $-0.041 \pm 0.095$   $\chi^2/\text{NDF}$ : 16.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.015 \pm 0.091$   $\chi^2/\text{NDF}$ : 23.3/15

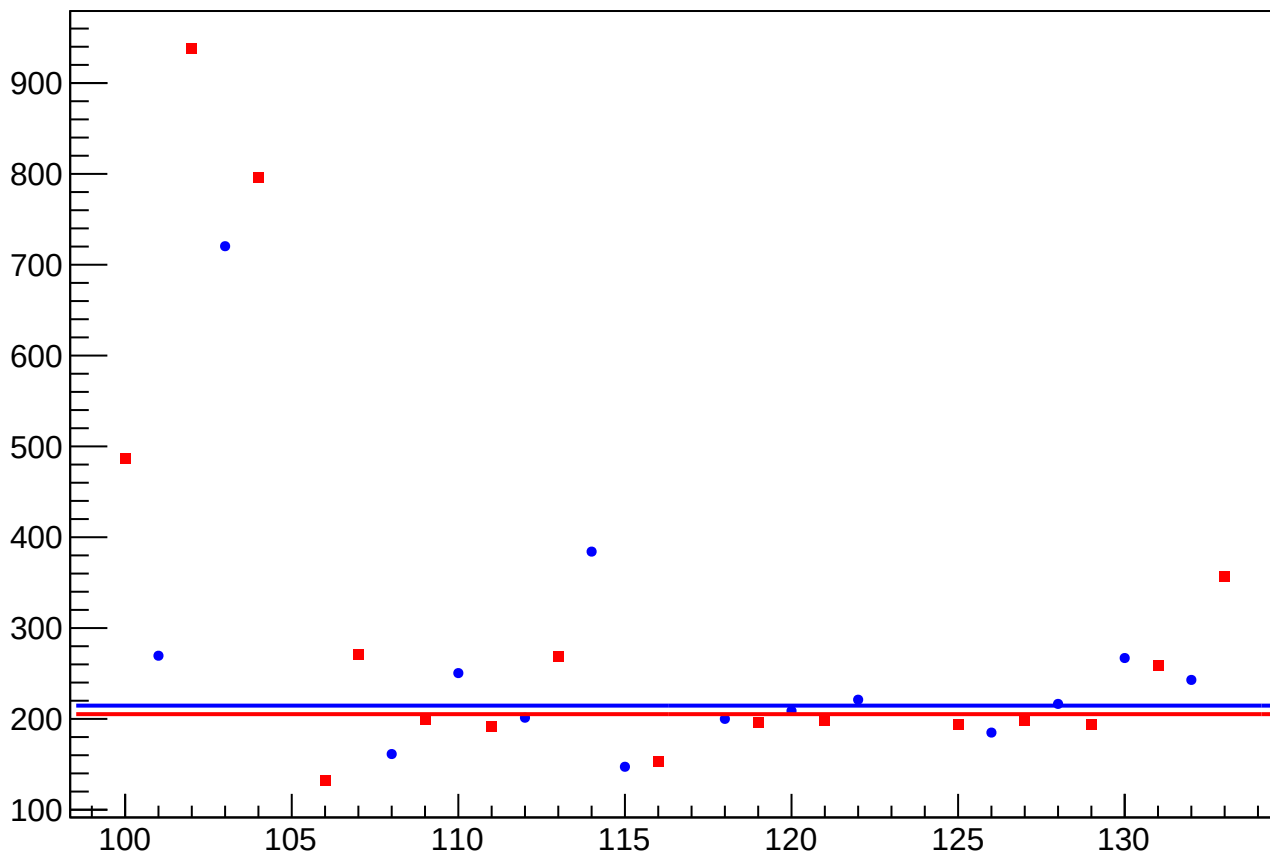
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.012 \pm 0.065$   $\chi^2/\text{NDF}$ : 39.6/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 214.622 $\pm$ 0.067  $\chi^2$ /NDF: 869780.8/13

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

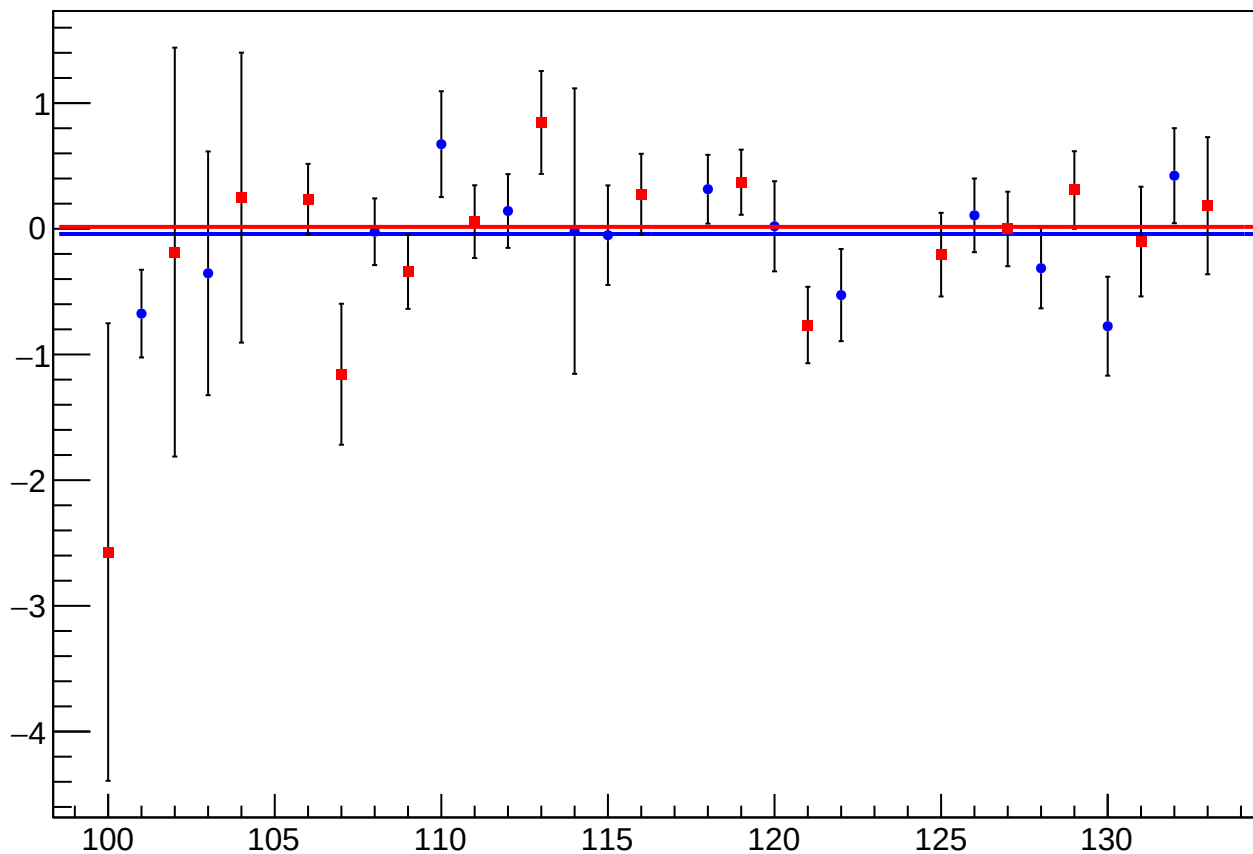
Right Out: 205.226 $\pm$ 0.064  $\chi^2$ /NDF: 1442856.3/15

All: 209.714 $\pm$ 0.046  $\chi^2$ /NDF: 2322906.1/29

- 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\_avg\_atlr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.041+/-0.095  $\chi^2/\text{NDF}$ : 16.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.015+/-0.091  $\chi^2/\text{NDF}$ : 23.3/15

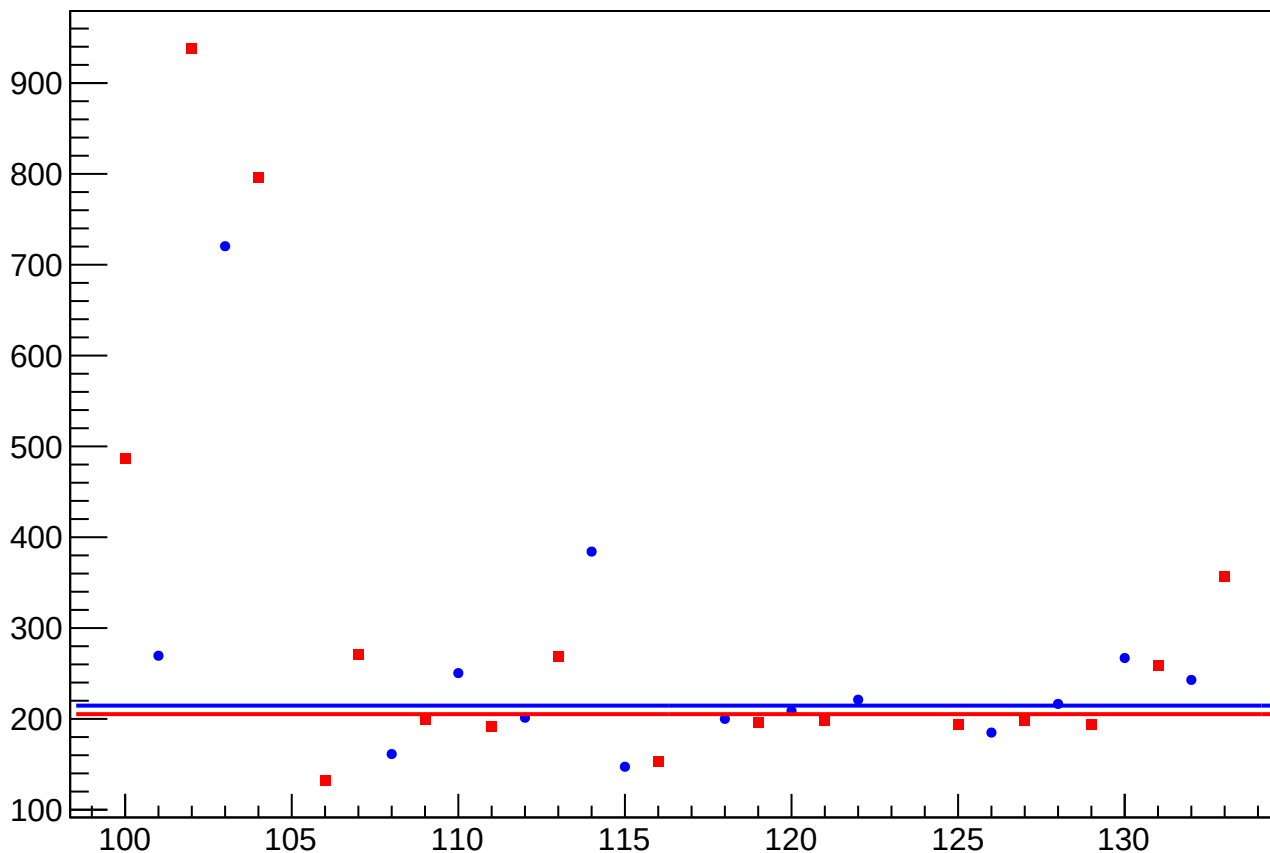
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.012+/-0.065  $\chi^2/\text{NDF}$ : 39.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 214.622+/-0.067  $\chi^2/\text{NDF}$ : 869780.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 205.226+/-0.064  $\chi^2/\text{NDF}$ : 1442856.3/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

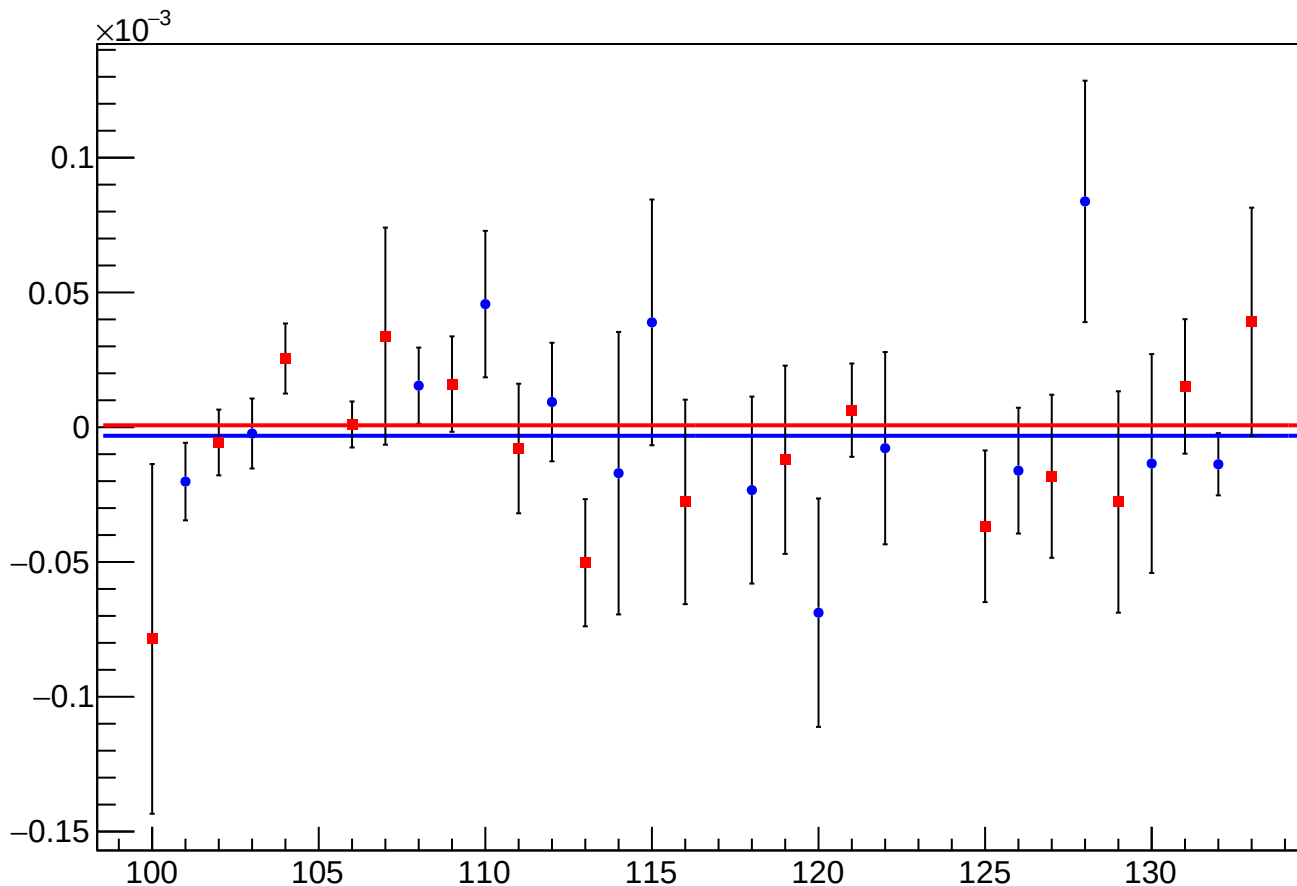
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 209.714+/-0.046  $\chi^2/\text{NDF}$ : 2322906.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.2/15

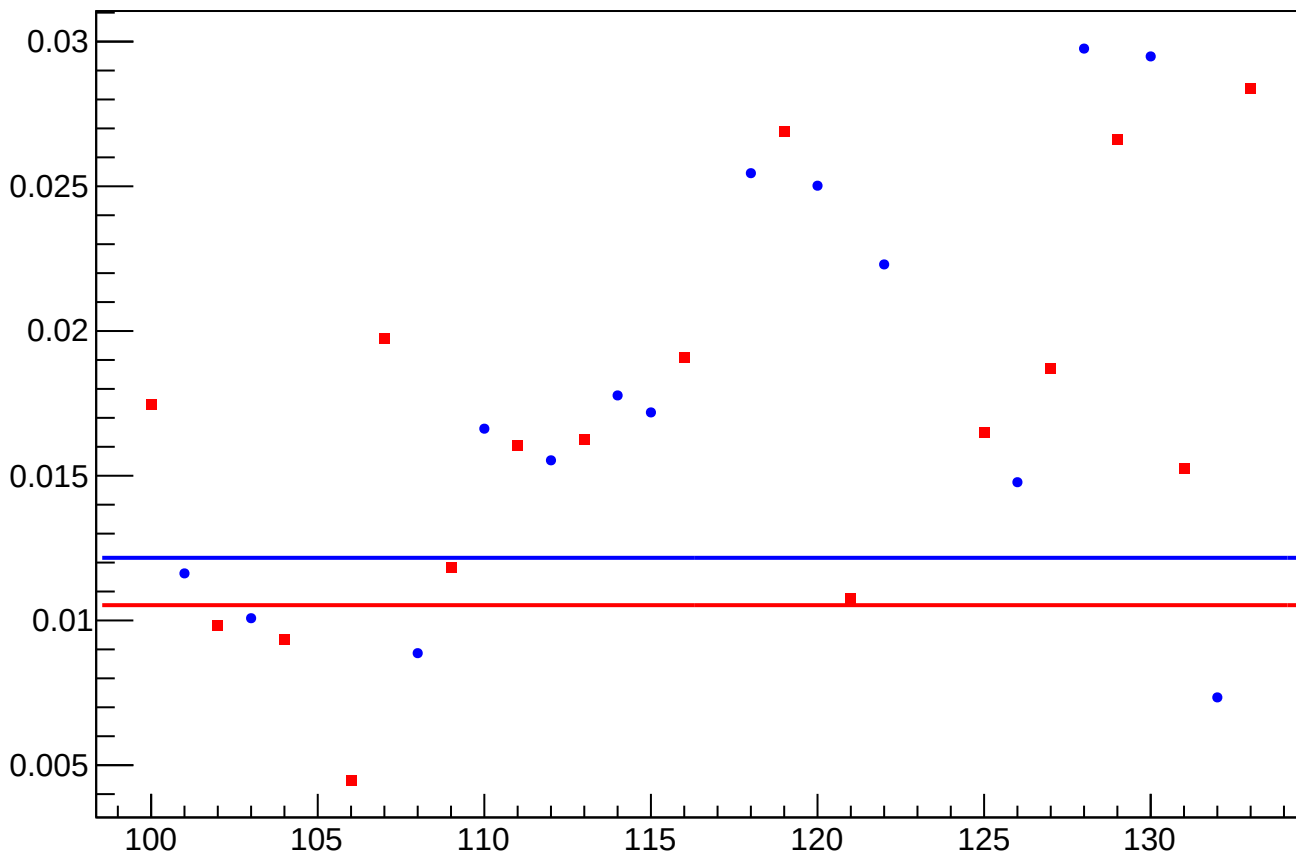
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 31.8/29

- 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  $\chi^2/\text{NDF}$ : 1998047.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 2907119.4/15

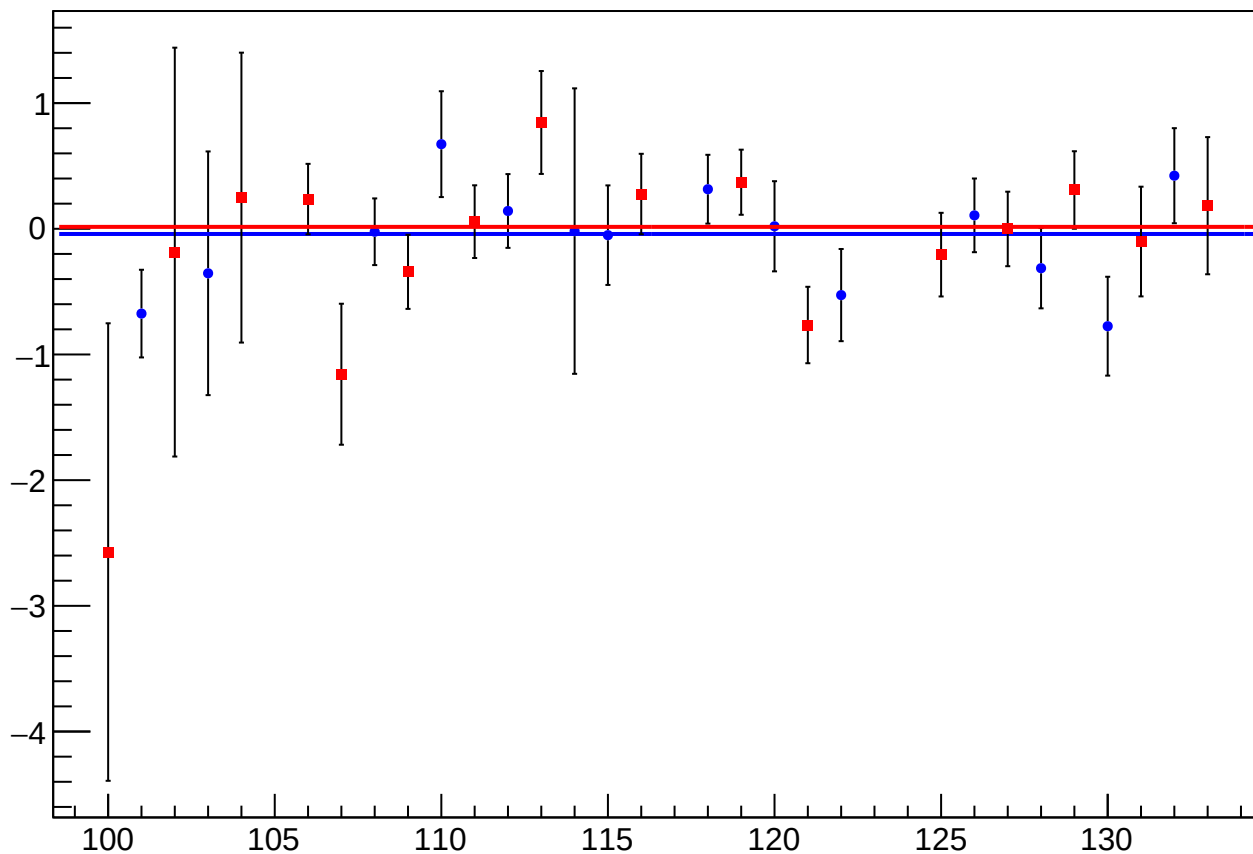
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 5005438.2/29

- 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: -0.041 $\pm$ 0.095  $\chi^2$ /NDF: 16.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.015 $\pm$ 0.091  $\chi^2$ /NDF: 23.3/15

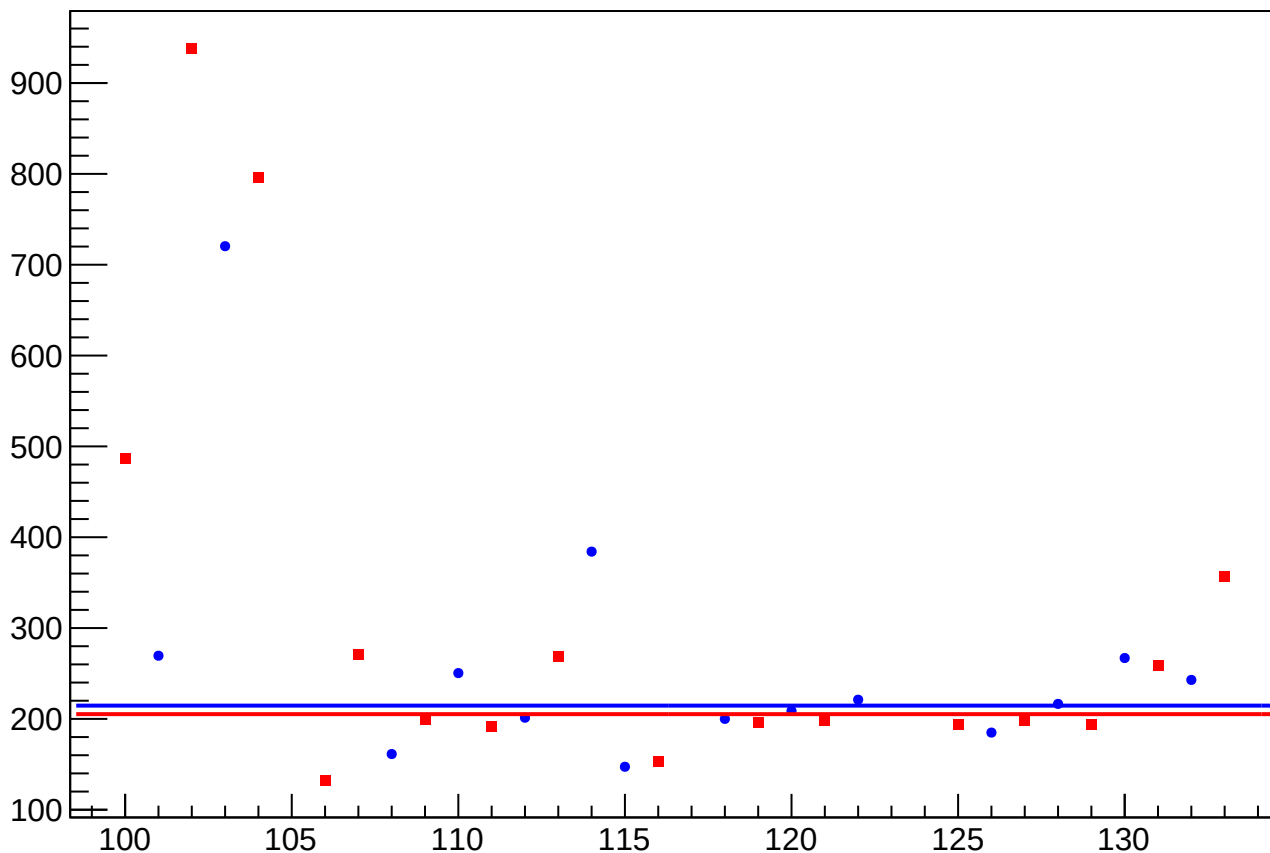
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.012 $\pm$ 0.065  $\chi^2$ /NDF: 39.6/29

- 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: 214.620+/-0.067  $\chi^2/\text{NDF}$ : 869749.1/13

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

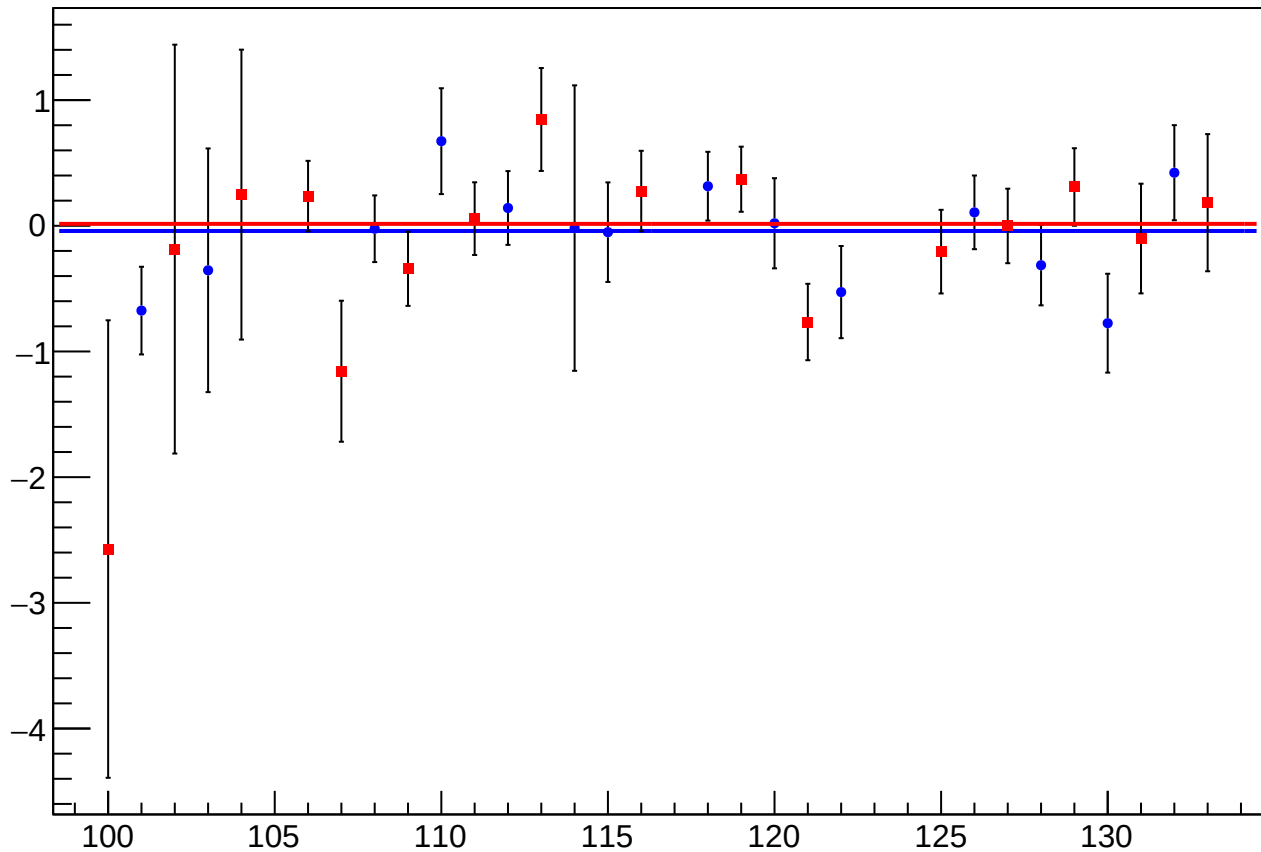
Right Out: 205.223+/-0.064  $\chi^2/\text{NDF}$ : 1442824.4/15

All: 209.711+/-0.046  $\chi^2/\text{NDF}$ : 2322844.0/29

- 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\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.041+/-0.095  $\chi^2/\text{NDF}$ : 16.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.015+/-0.091  $\chi^2/\text{NDF}$ : 23.3/15

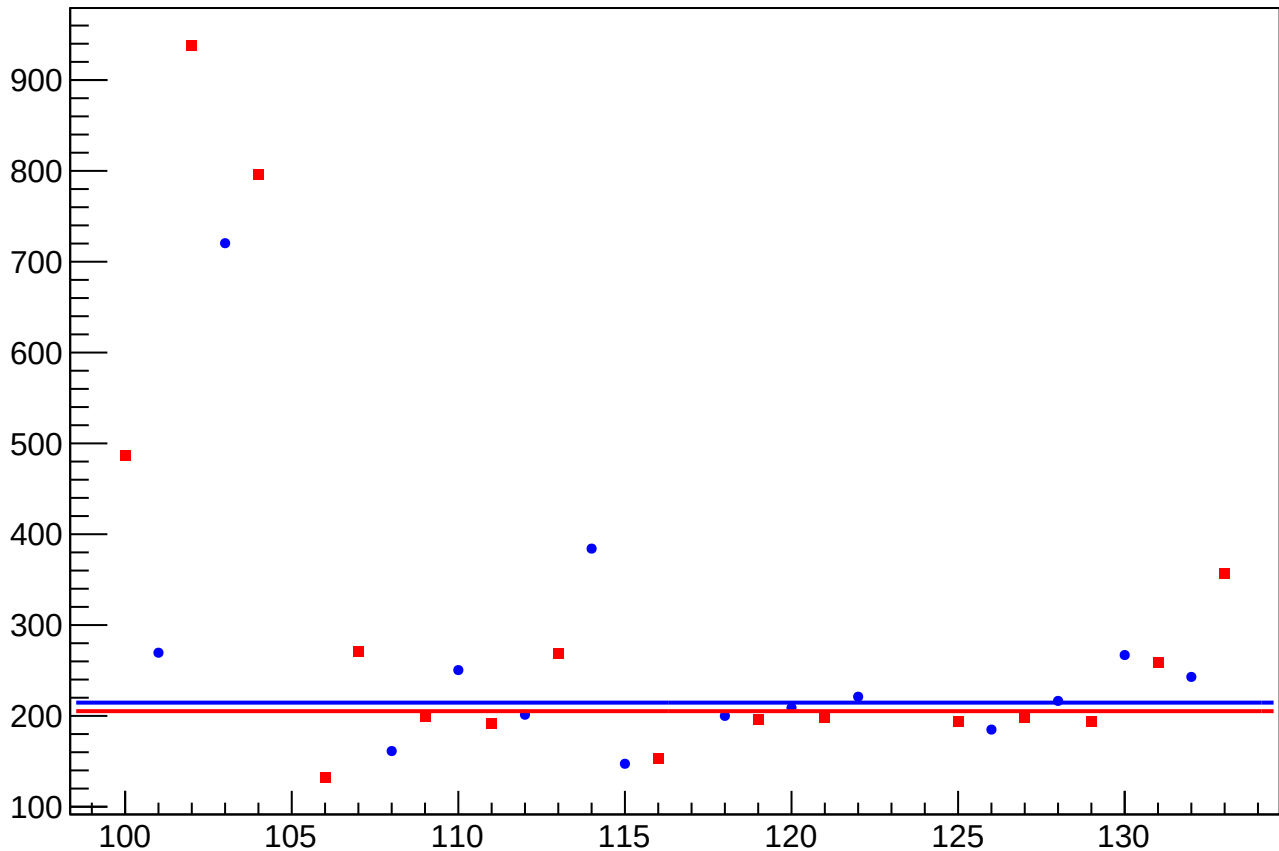
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.012+/-0.065  $\chi^2/\text{NDF}$ : 39.6/29

- 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: 214.620 $\pm$ 0.067  $\chi^2$ /NDF: 869749.1/13

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

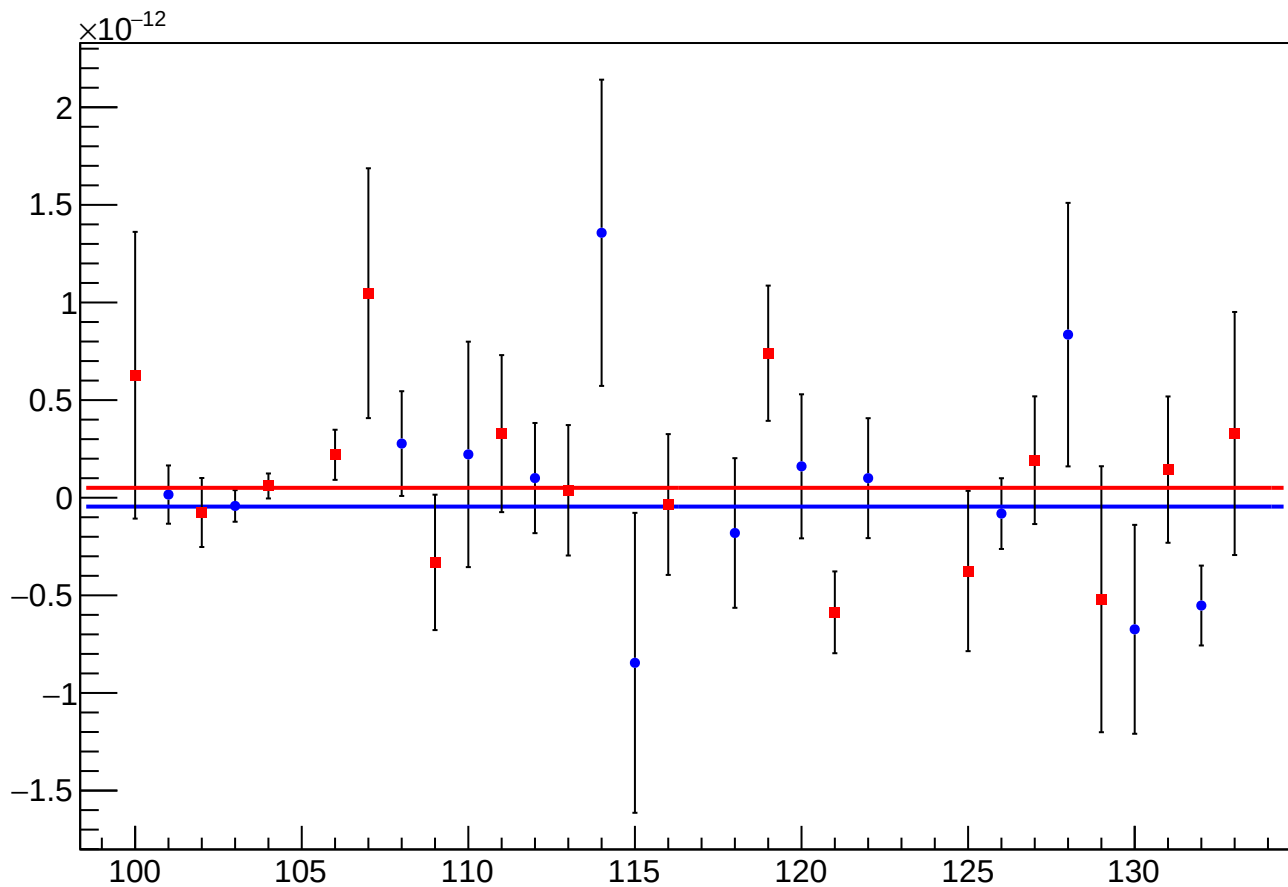
Right Out: 205.223 $\pm$ 0.064  $\chi^2$ /NDF: 1442824.4/15

All: 209.711 $\pm$ 0.046  $\chi^2$ /NDF: 2322844.0/29

- 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\_avg\_atlr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 22.5/15

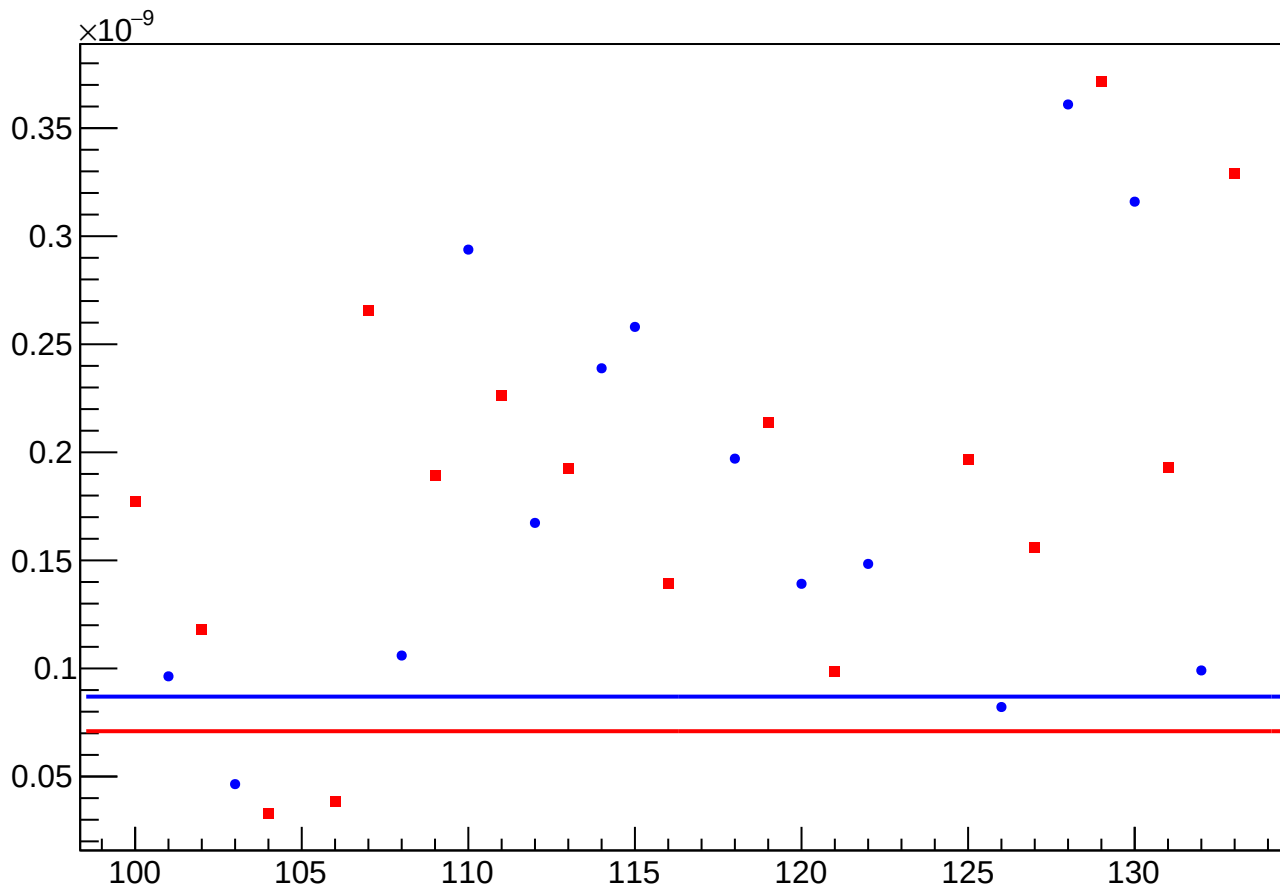
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 40.5/29

- 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  $\chi^2/\text{NDF}$ : 2101160.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3722310.2/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

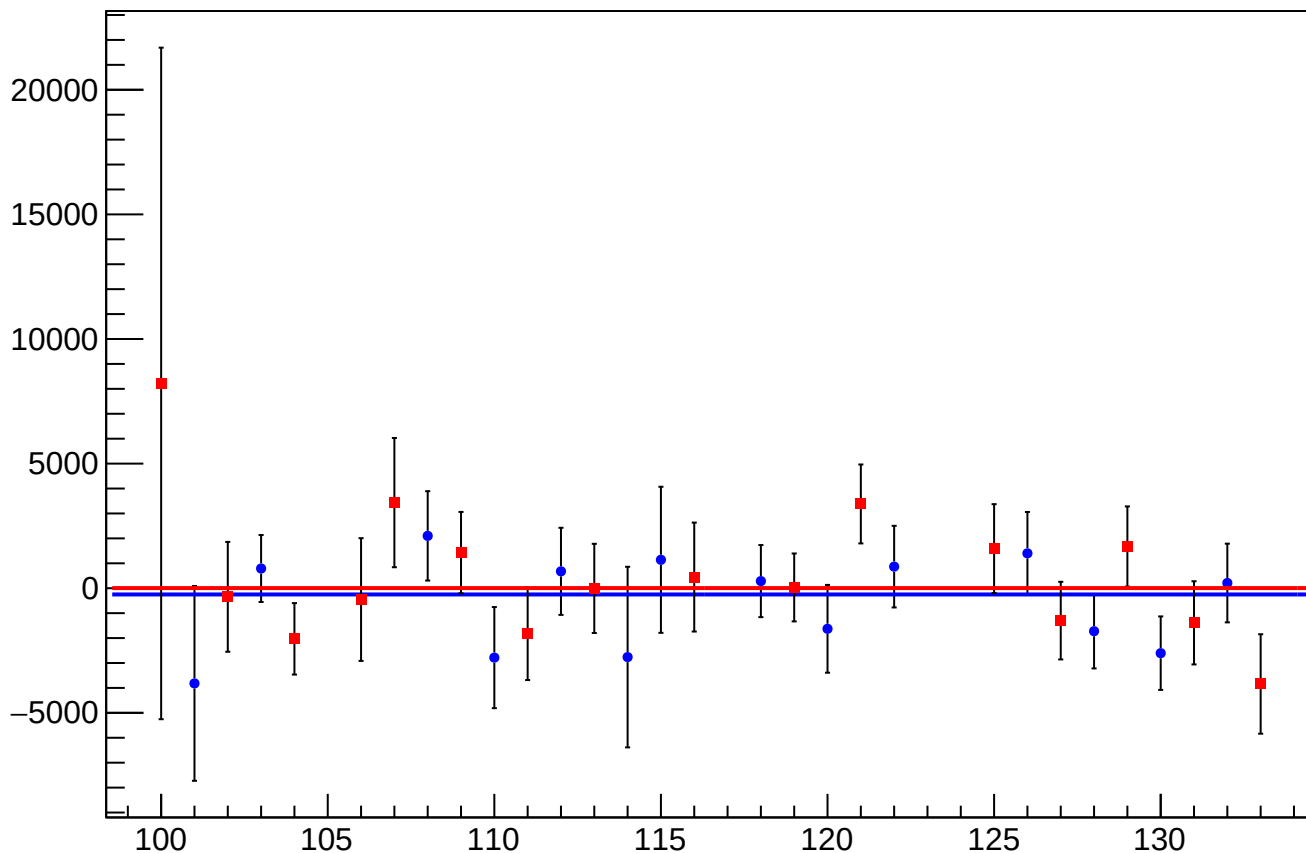
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5916712.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: -250.163+/-469.366  $\chi^2/\text{NDF}$ : 11.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6.204+/-453.628  $\chi^2/\text{NDF}$ : 17.5/15

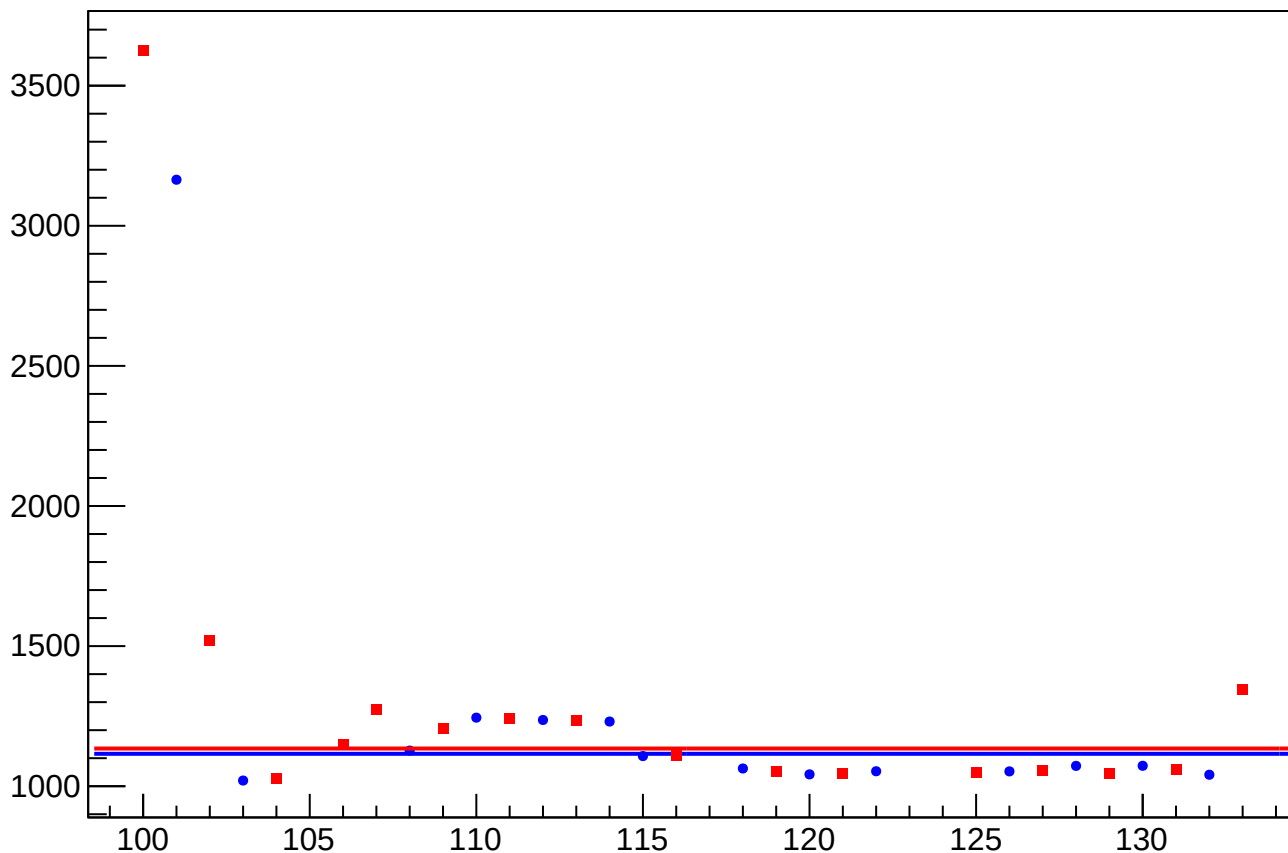
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -117.610+/-326.185  $\chi^2/\text{NDF}$ : 29.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1115.649+/-0.332  $\chi^2/\text{NDF}$ : 599326.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1134.468+/-0.320  $\chi^2/\text{NDF}$ : 219316.3/15

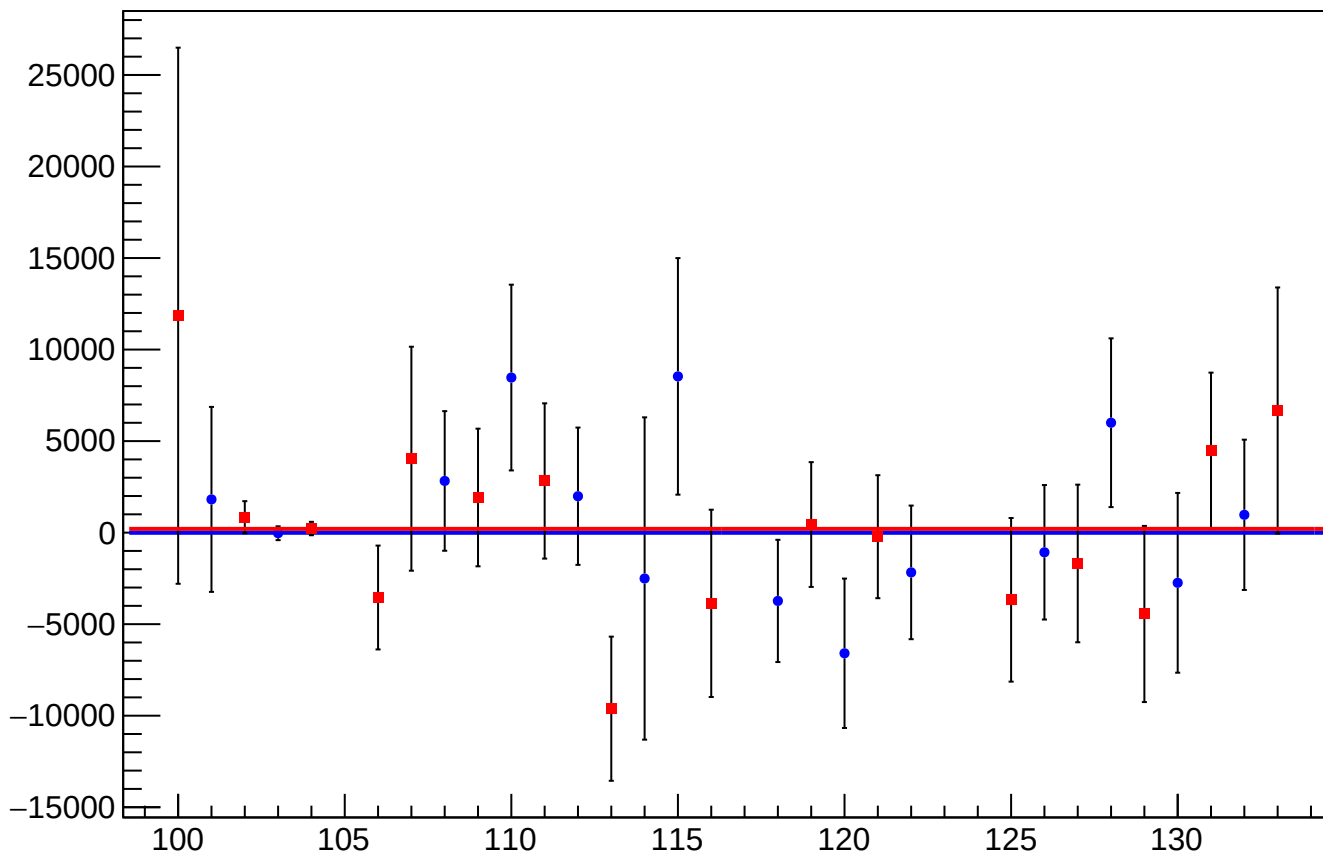
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1125.398+/-0.230  $\chi^2/\text{NDF}$ : 820308.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_reg\_correction\_mean vs Slug



Right In: -8.503+/-360.031  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 205.040+/-323.731  $\chi^2/\text{NDF}$ : 14.6/15

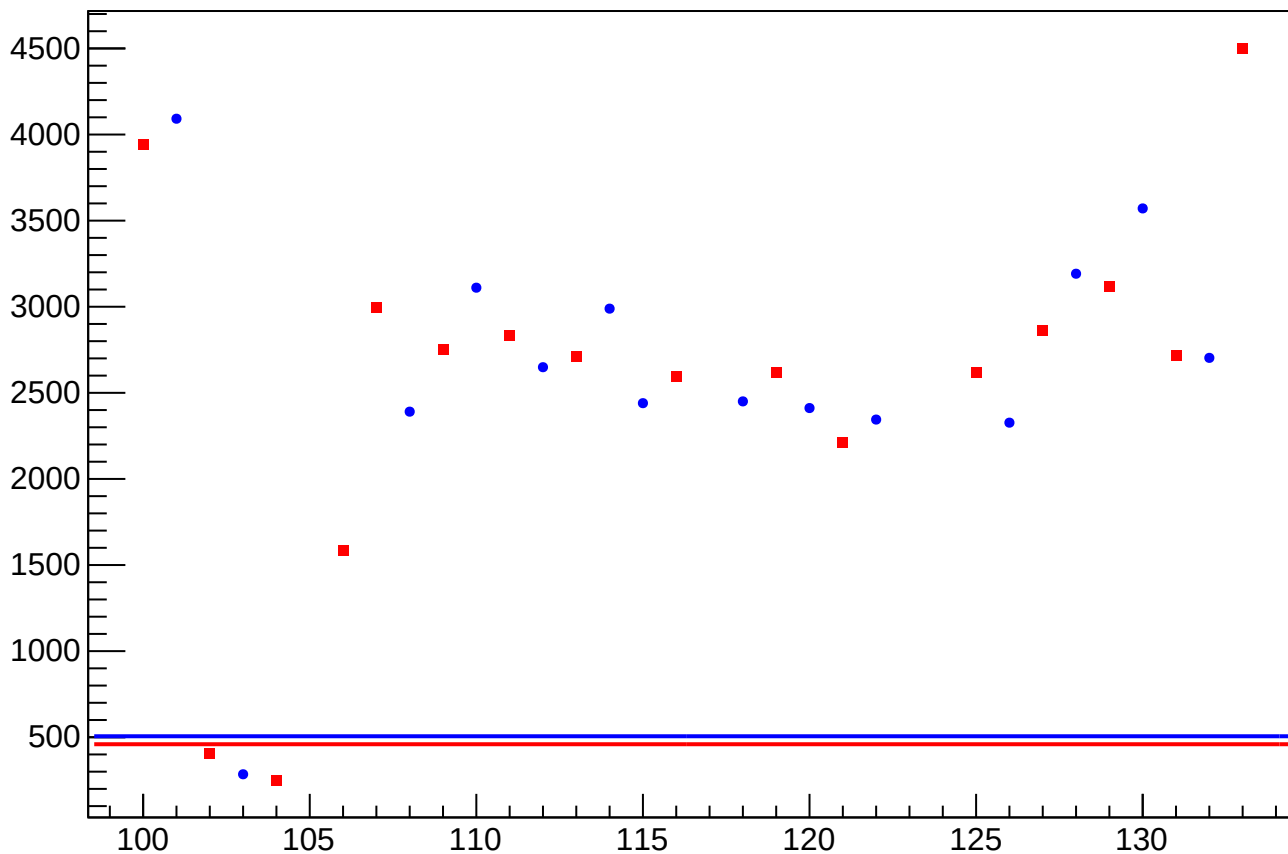
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 109.573+/-240.726  $\chi^2/\text{NDF}$ : 26.7/29

- 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: 505.640+/-0.255  $\chi^2/\text{NDF}$ : 7845113.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 459.327+/-0.229  $\chi^2/\text{NDF}$ : 8152339.0/15

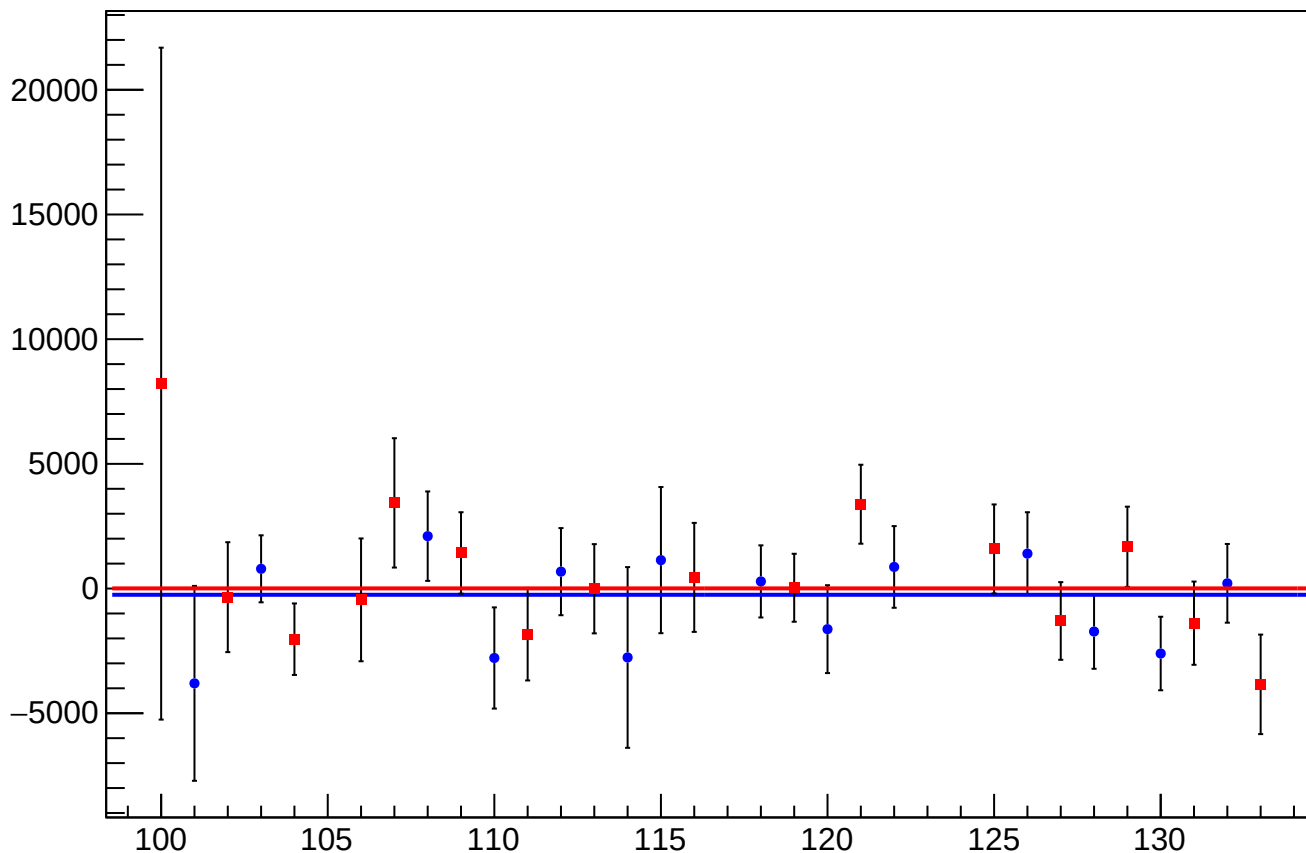
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 480.032+/-0.170  $\chi^2/\text{NDF}$ : 16015752.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: -249.886+/-469.366  $\chi^2/\text{NDF}$ : 11.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6.020+/-453.628  $\chi^2/\text{NDF}$ : 17.5/15

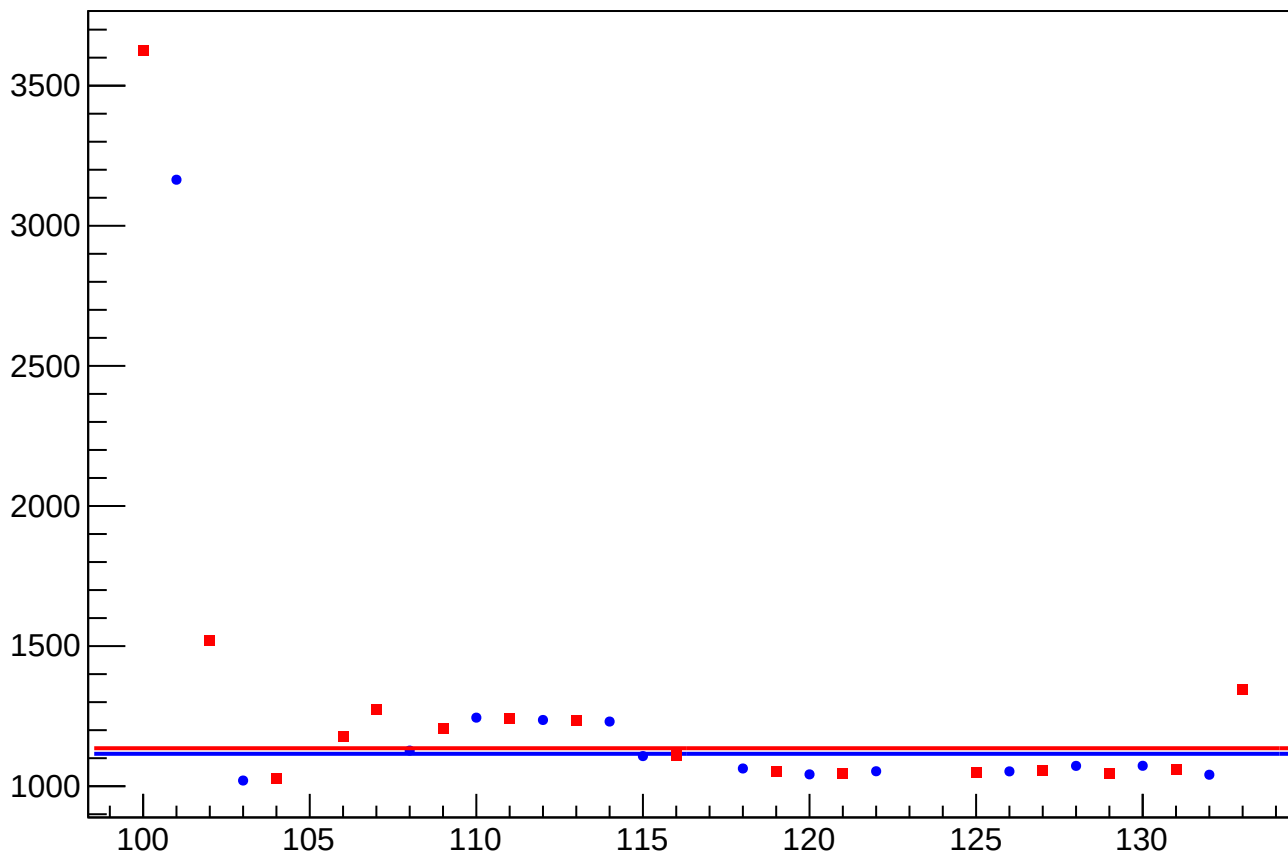
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -117.571+/-326.185  $\chi^2/\text{NDF}$ : 29.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1115.649+/-0.332  $\chi^2/\text{NDF}$ : 599327.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1135.524+/-0.321  $\chi^2/\text{NDF}$ : 219906.8/15

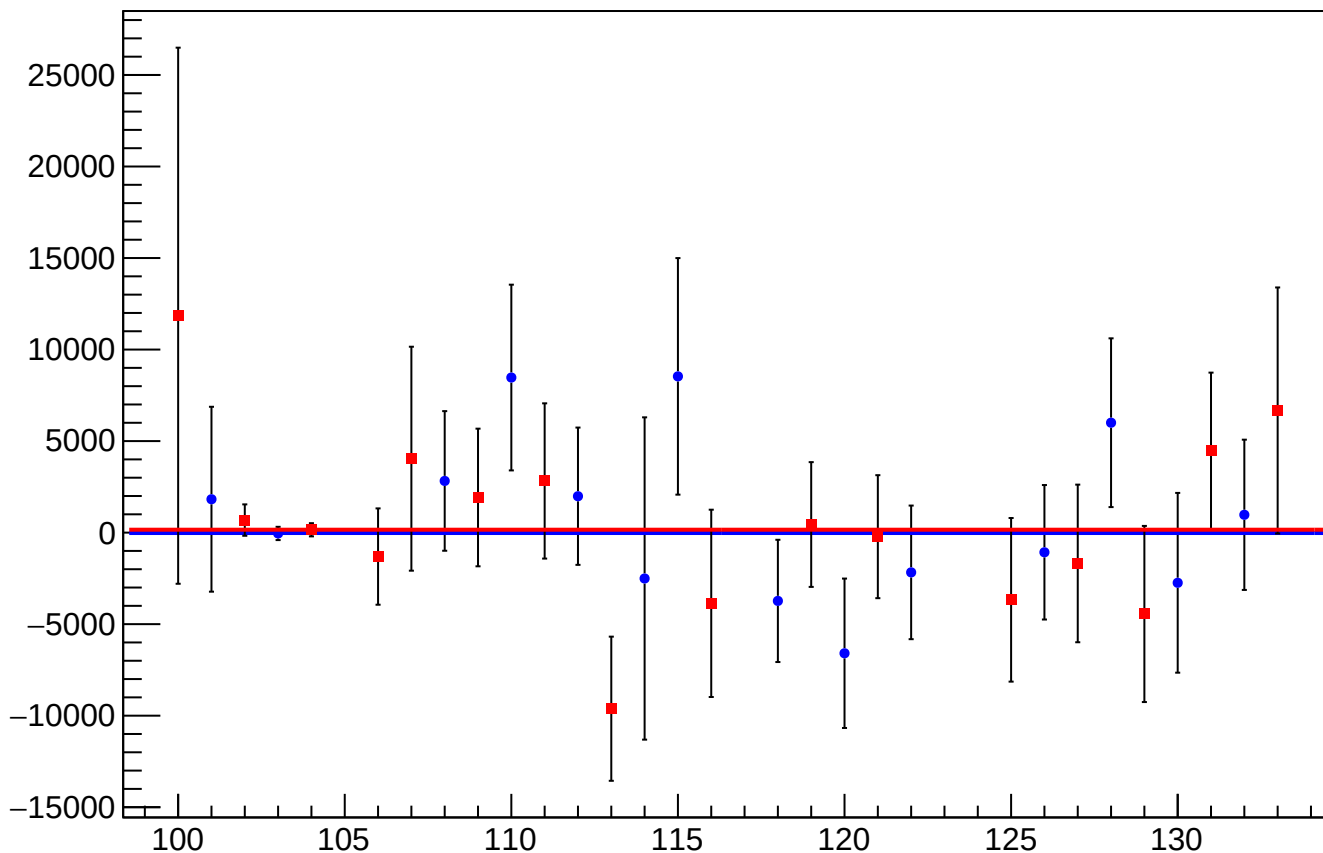
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1125.931+/-0.231  $\chi^2/\text{NDF}$ : 821089.8/29

- 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: -21.951 $\pm$ 346.651  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 159.193 $\pm$ 318.497  $\chi^2$ /NDF: 12.9/15

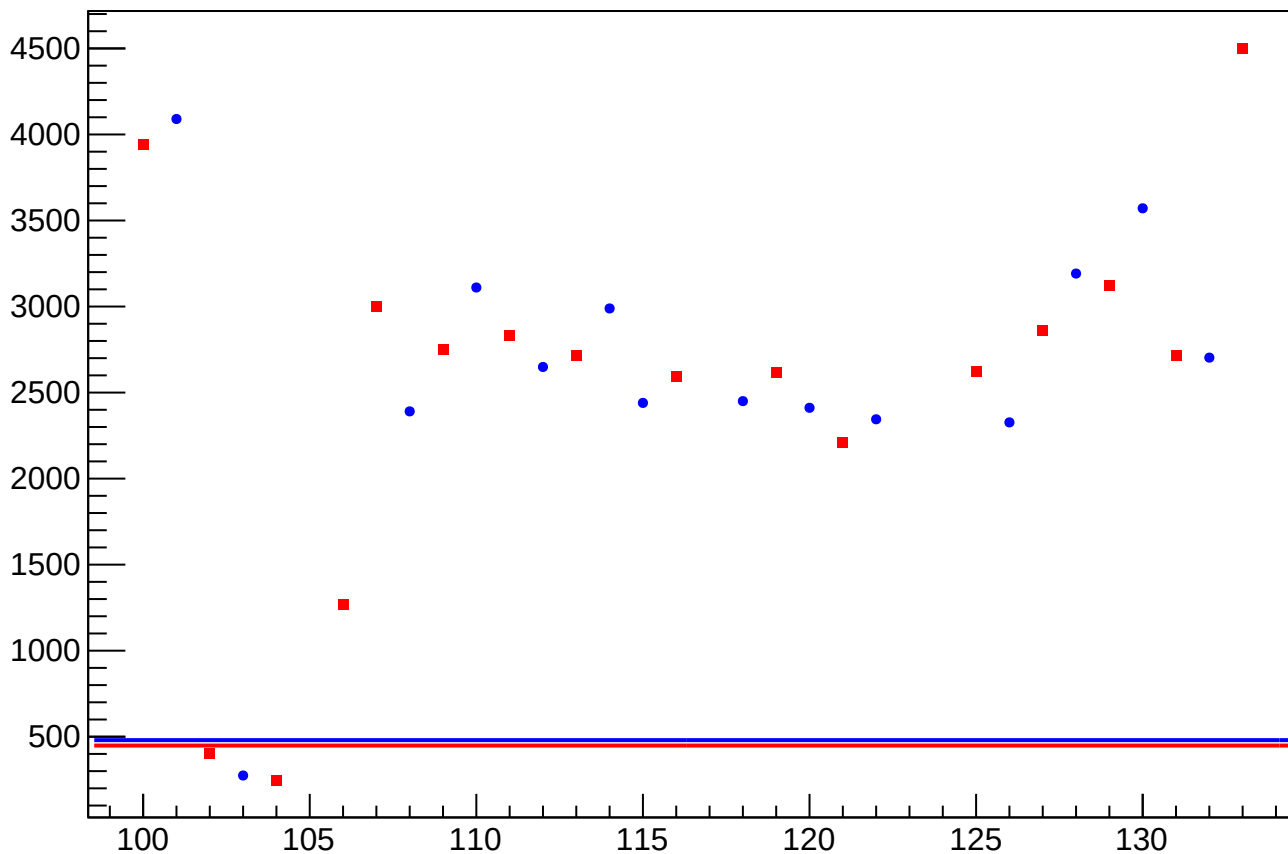
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 76.275 $\pm$ 234.534  $\chi^2$ /NDF: 25.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_cor\_correction\_rms vs Slug



Right In: 480.077+/-0.245  $\chi^2/\text{NDF}$ : 7964442.1/13

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: 448.693+/-0.225  $\chi^2/\text{NDF}$ : 8067228.9/15

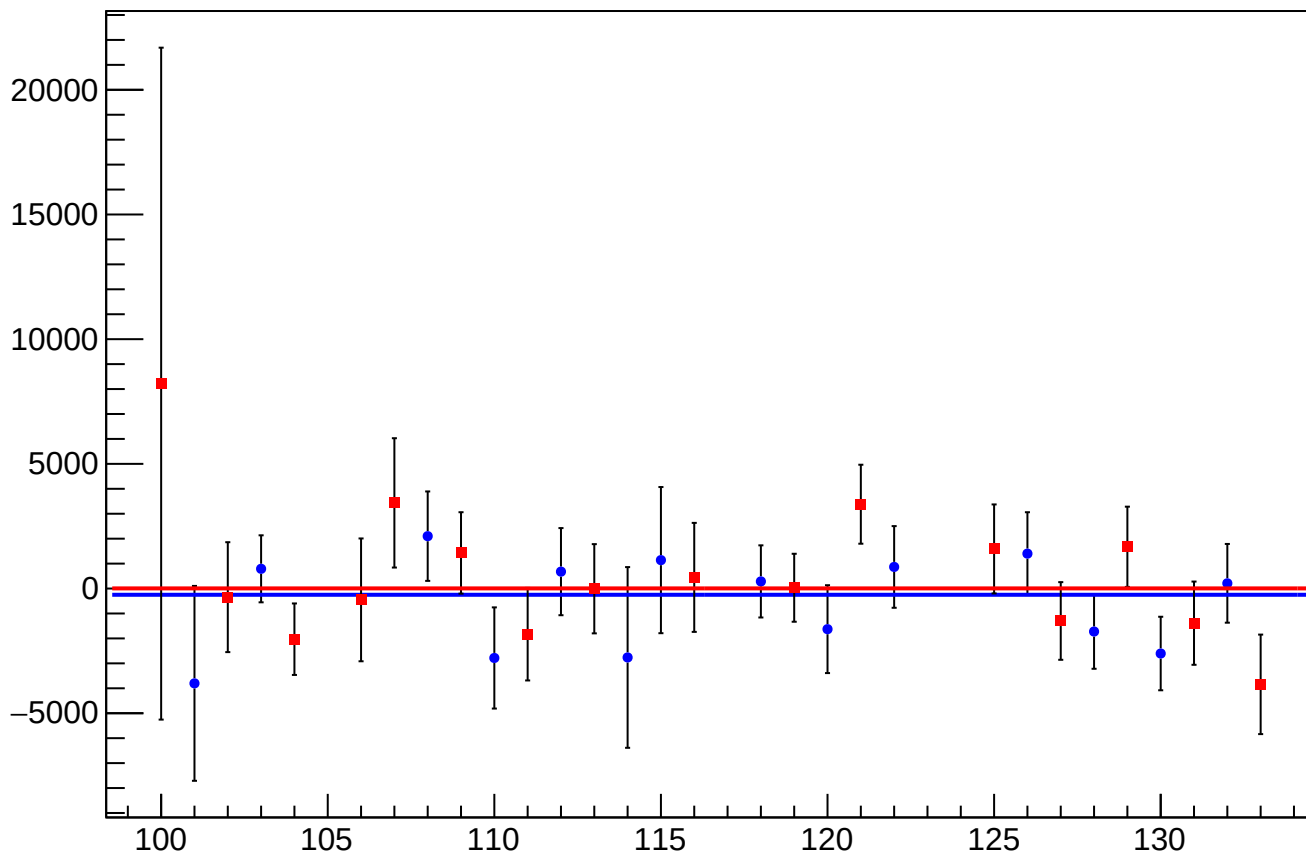
All: 463.059+/-0.166  $\chi^2/\text{NDF}$ : 16040560.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_cor\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In: -249.886+/-469.366  $\chi^2/\text{NDF}$ : 11.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6.020+/-453.628  $\chi^2/\text{NDF}$ : 17.5/15

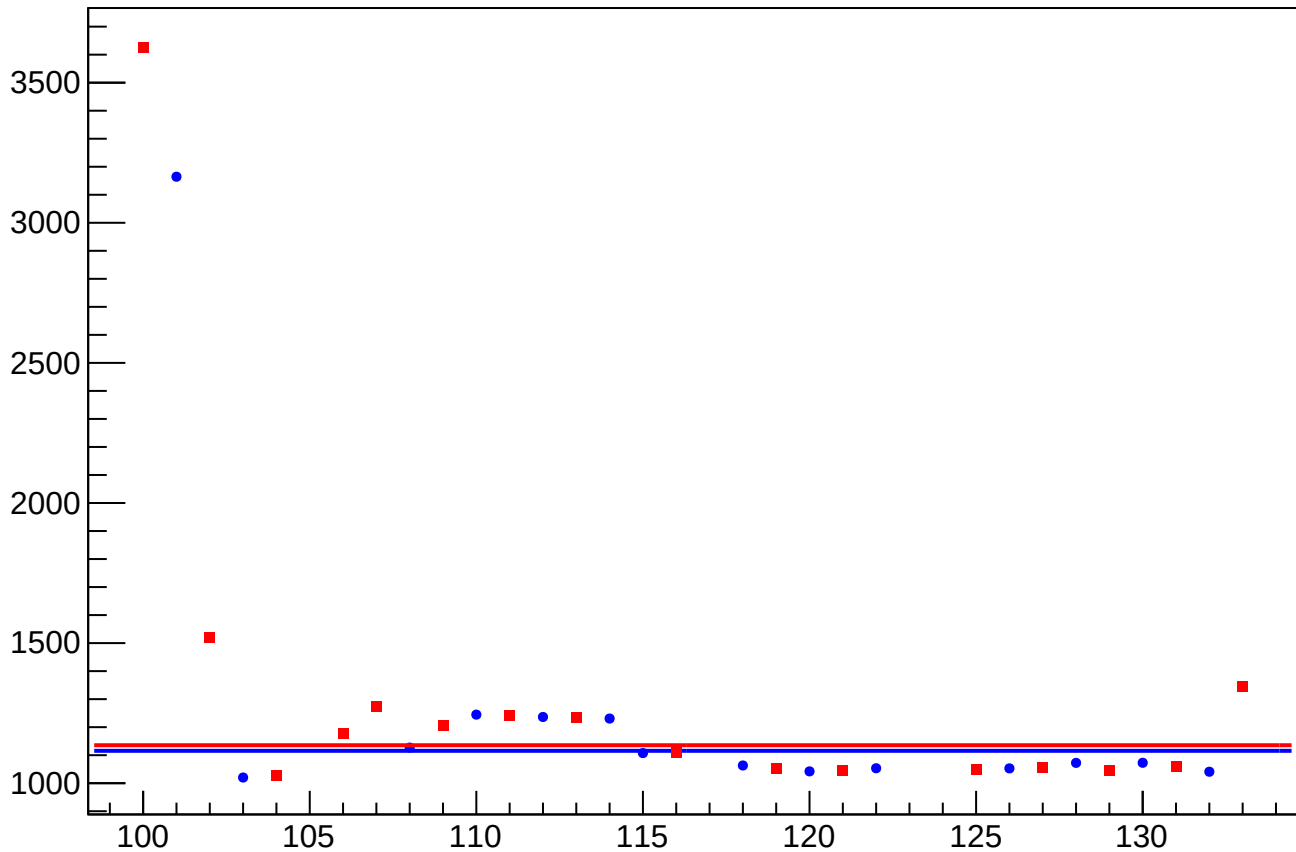
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -117.571+/-326.185  $\chi^2/\text{NDF}$ : 29.2/29

- 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: 1115.649 $\pm$ 0.332  $\chi^2$ /NDF: 599327.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1135.524 $\pm$ 0.321  $\chi^2$ /NDF: 219906.8/15

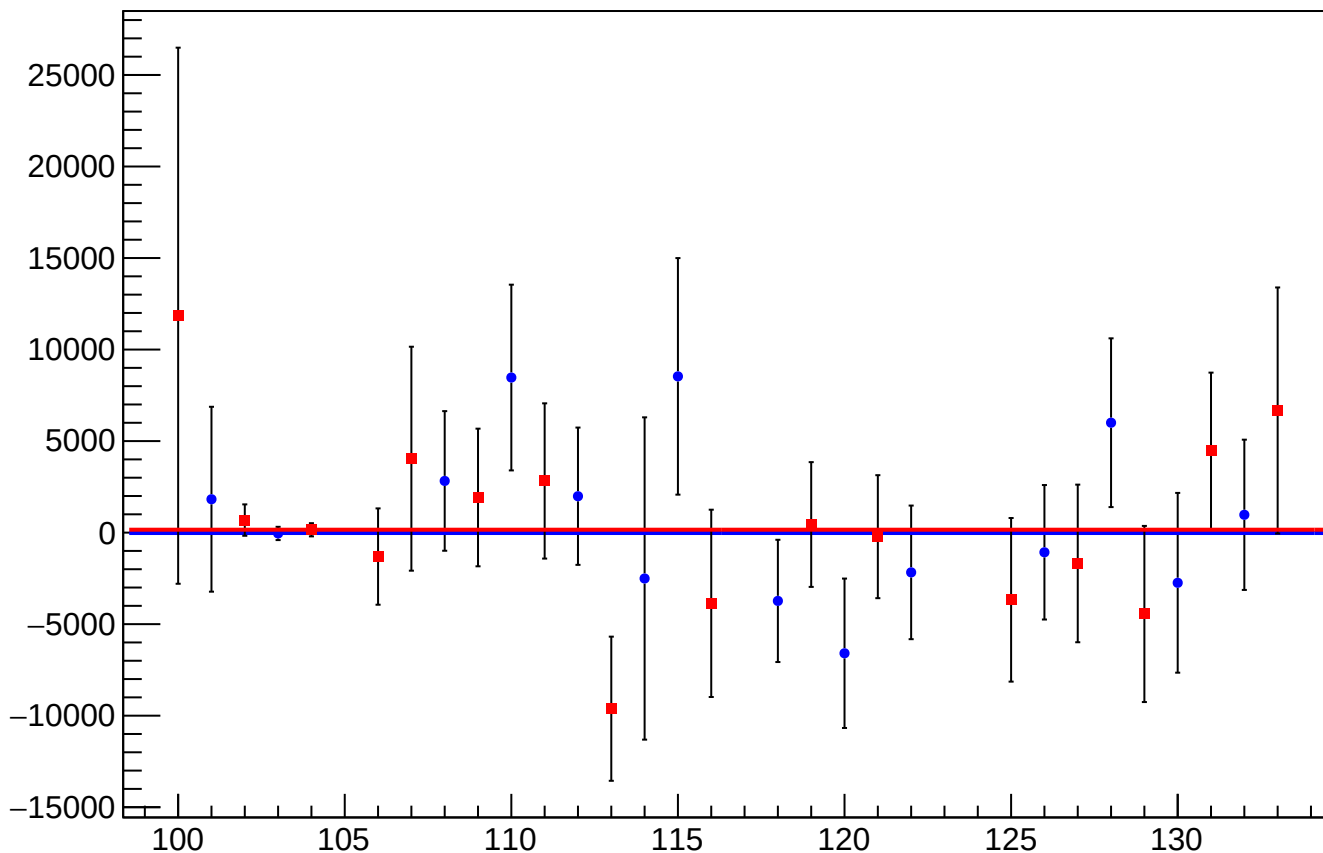
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1125.931 $\pm$ 0.231  $\chi^2$ /NDF: 821089.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In:  $-21.951 \pm 346.651$   $\chi^2/\text{NDF}$ : 11.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $159.193 \pm 318.497$   $\chi^2/\text{NDF}$ : 12.9/15

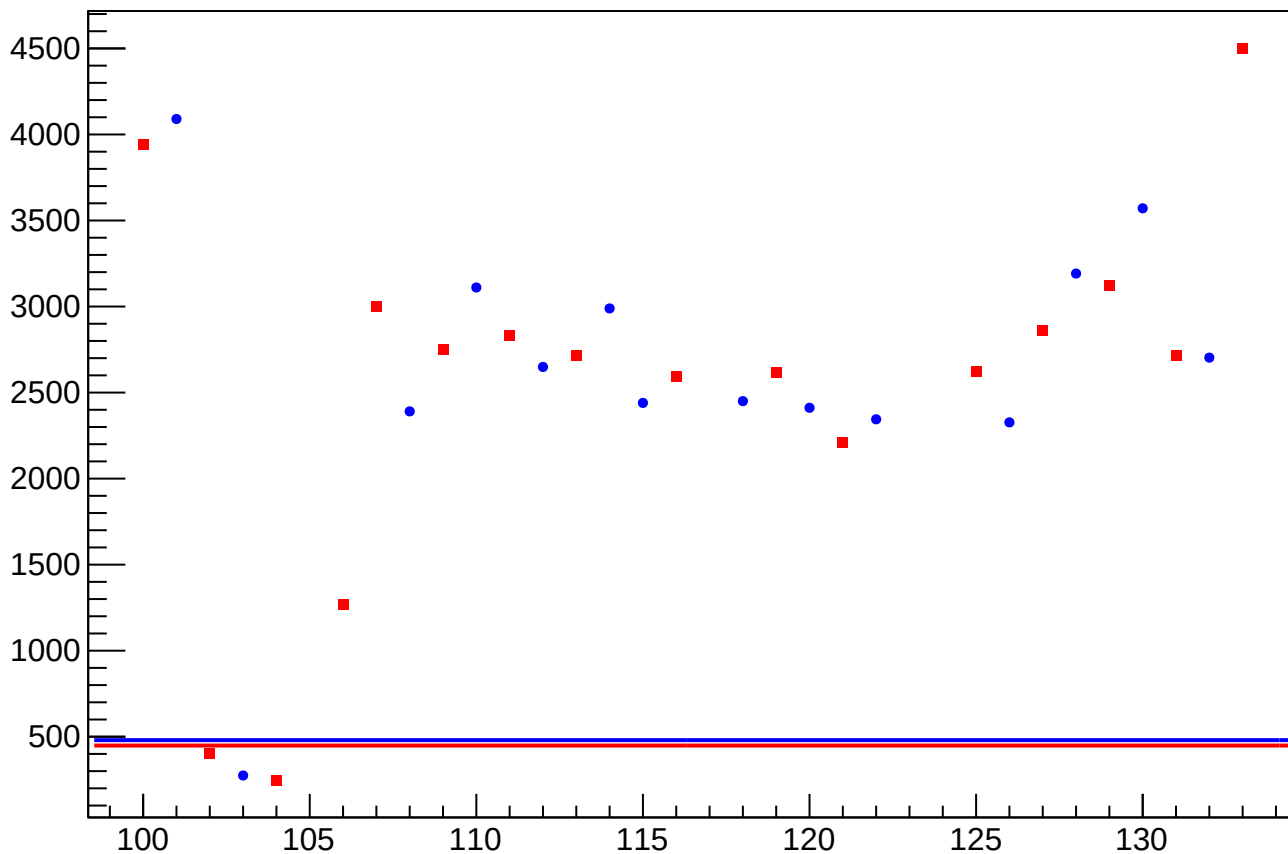
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $76.275 \pm 234.534$   $\chi^2/\text{NDF}$ : 25.0/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 480.077+/-0.245  $\chi^2/\text{NDF}$ : 7964442.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 448.693+/-0.225  $\chi^2/\text{NDF}$ : 8067228.9/15

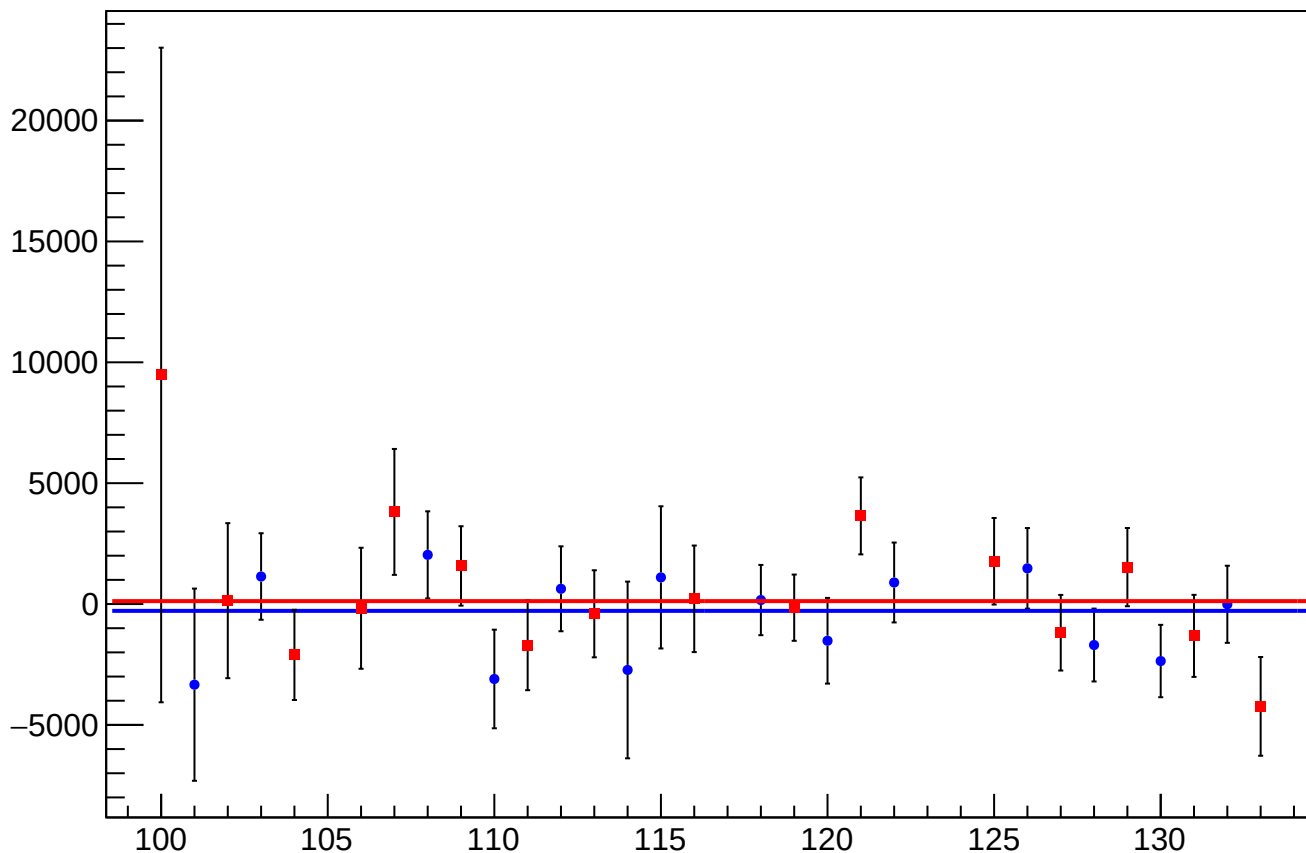
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 463.059+/-0.166  $\chi^2/\text{NDF}$ : 16040560.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug



Right In:  $-282.533 \pm 485.894$   $\chi^2/\text{NDF}$ : 10.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $121.369 \pm 472.132$   $\chi^2/\text{NDF}$ : 18.3/15

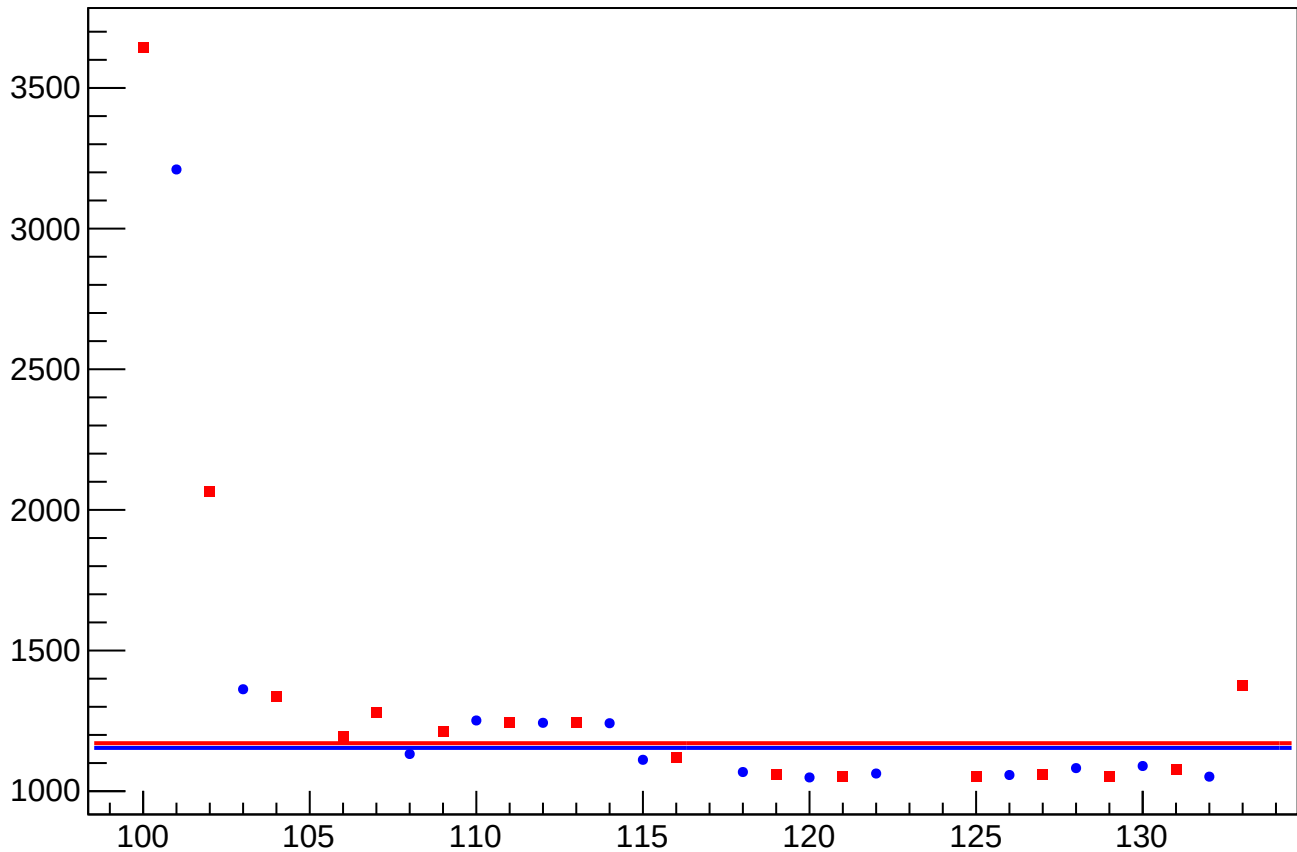
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-74.781 \pm 338.609$   $\chi^2/\text{NDF}$ : 29.4/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 1153.882 $\pm$ 0.344  $\chi^2$ /NDF: 616986.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1170.597 $\pm$ 0.334  $\chi^2$ /NDF: 331492.3/15

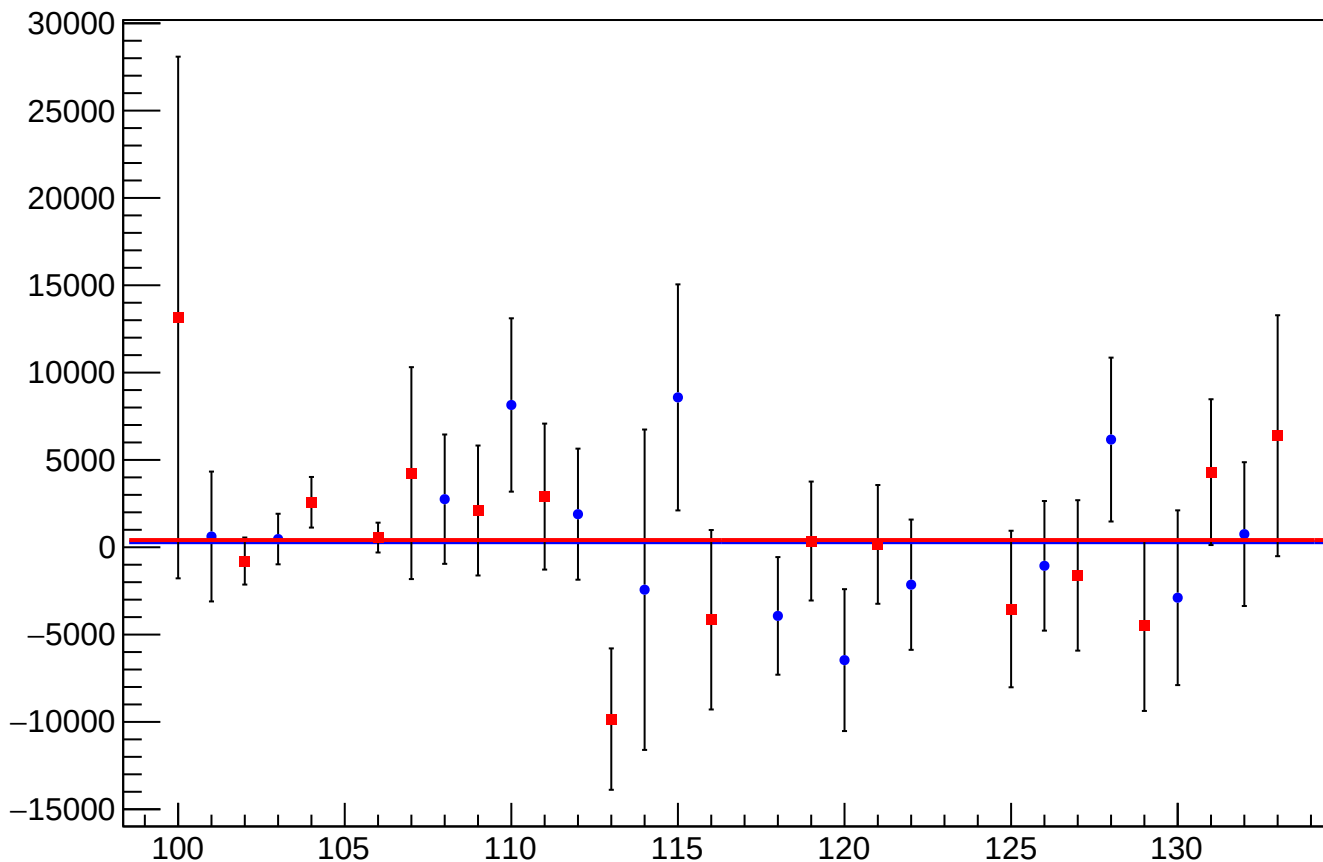
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1162.484 $\pm$ 0.239  $\chi^2$ /NDF: 949697.2/29

- 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: 290.462 $\pm$ 909.987  $\chi^2$ /NDF: 11.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 411.944 $\pm$ 572.022  $\chi^2$ /NDF: 15.6/15

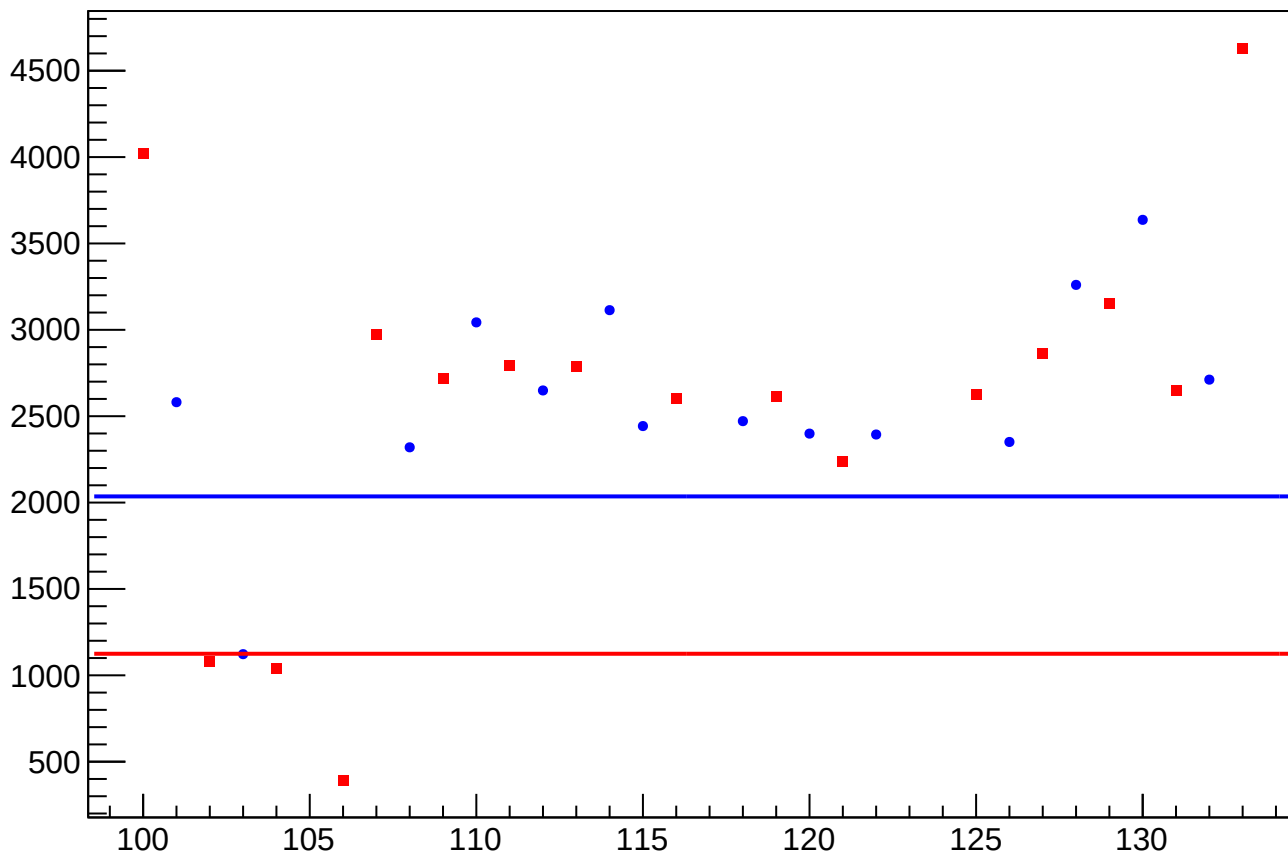
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 377.537 $\pm$ 484.287  $\chi^2$ /NDF: 27.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_dit\_correction\_rms vs Slug



Right In: 2035.688+/-0.643  $\chi^2/\text{NDF}$ : 1499656.8/13

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: 1124.784+/-0.404  $\chi^2/\text{NDF}$ : 5218324.7/15

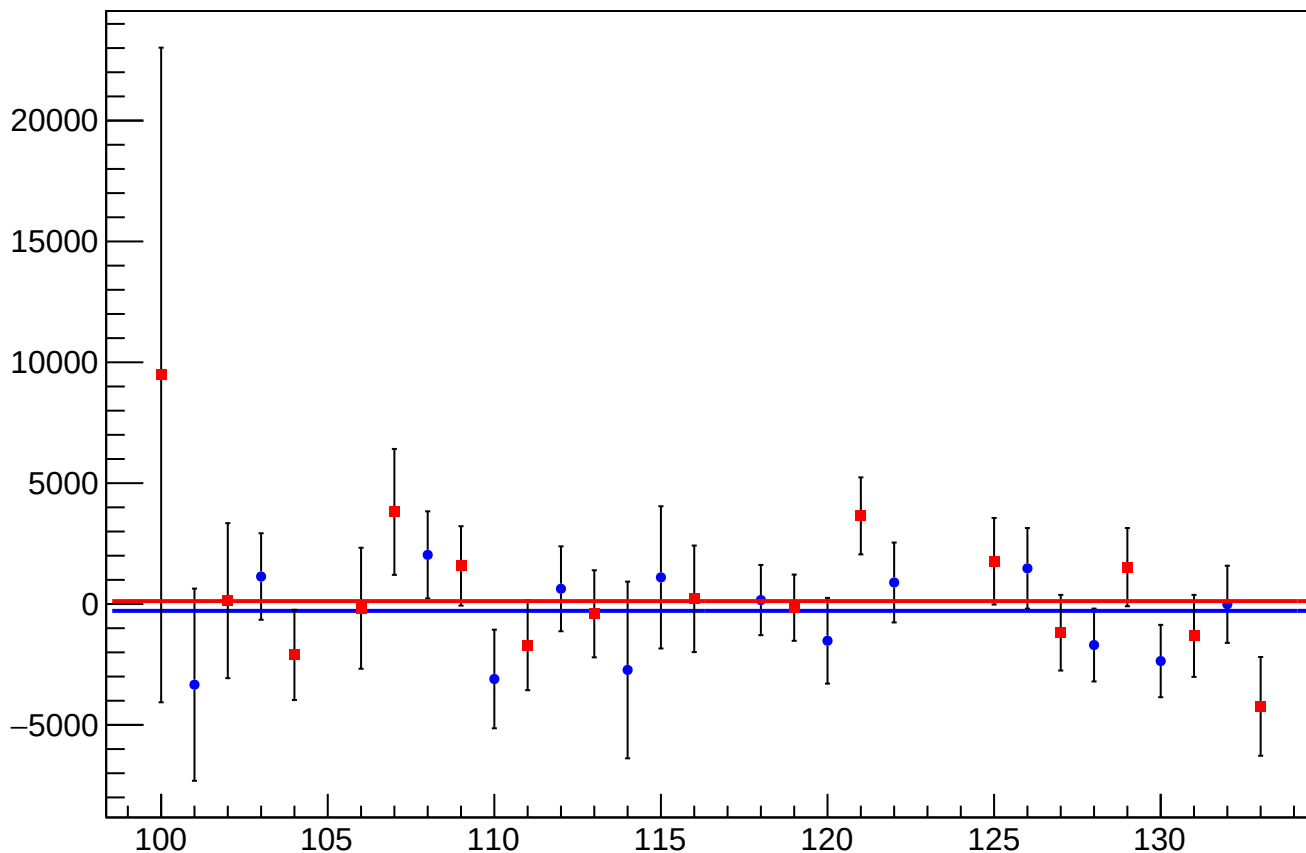
All: 1382.777+/-0.342  $\chi^2/\text{NDF}$ : 8154413.2/29

- 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: -282.533+/-485.894  $\chi^2/\text{NDF}$ : 10.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 121.372+/-472.132  $\chi^2/\text{NDF}$ : 18.3/15

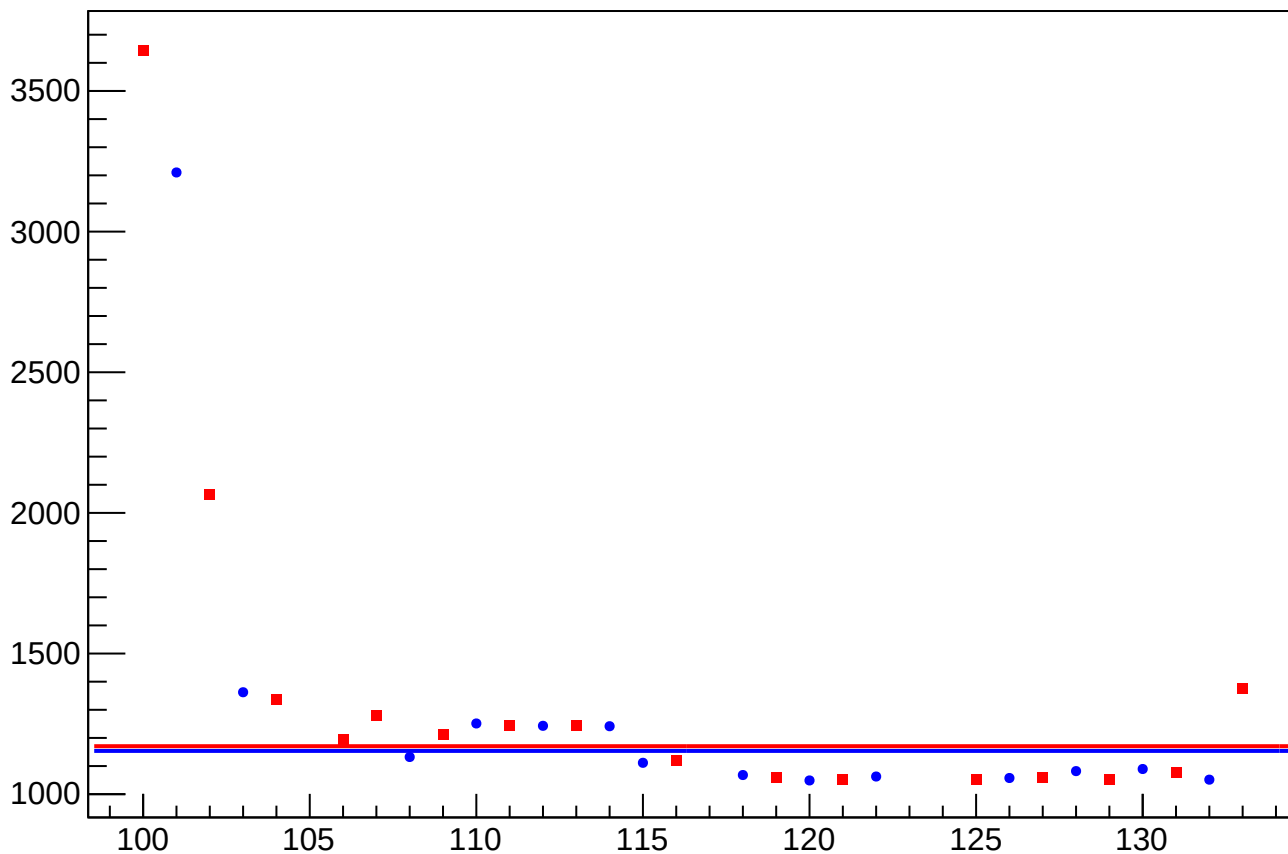
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -74.779+/-338.609  $\chi^2/\text{NDF}$ : 29.4/29

- 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: 1153.882 $\pm$ 0.344  $\chi^2$ /NDF: 616986.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1170.597 $\pm$ 0.334  $\chi^2$ /NDF: 331492.0/15

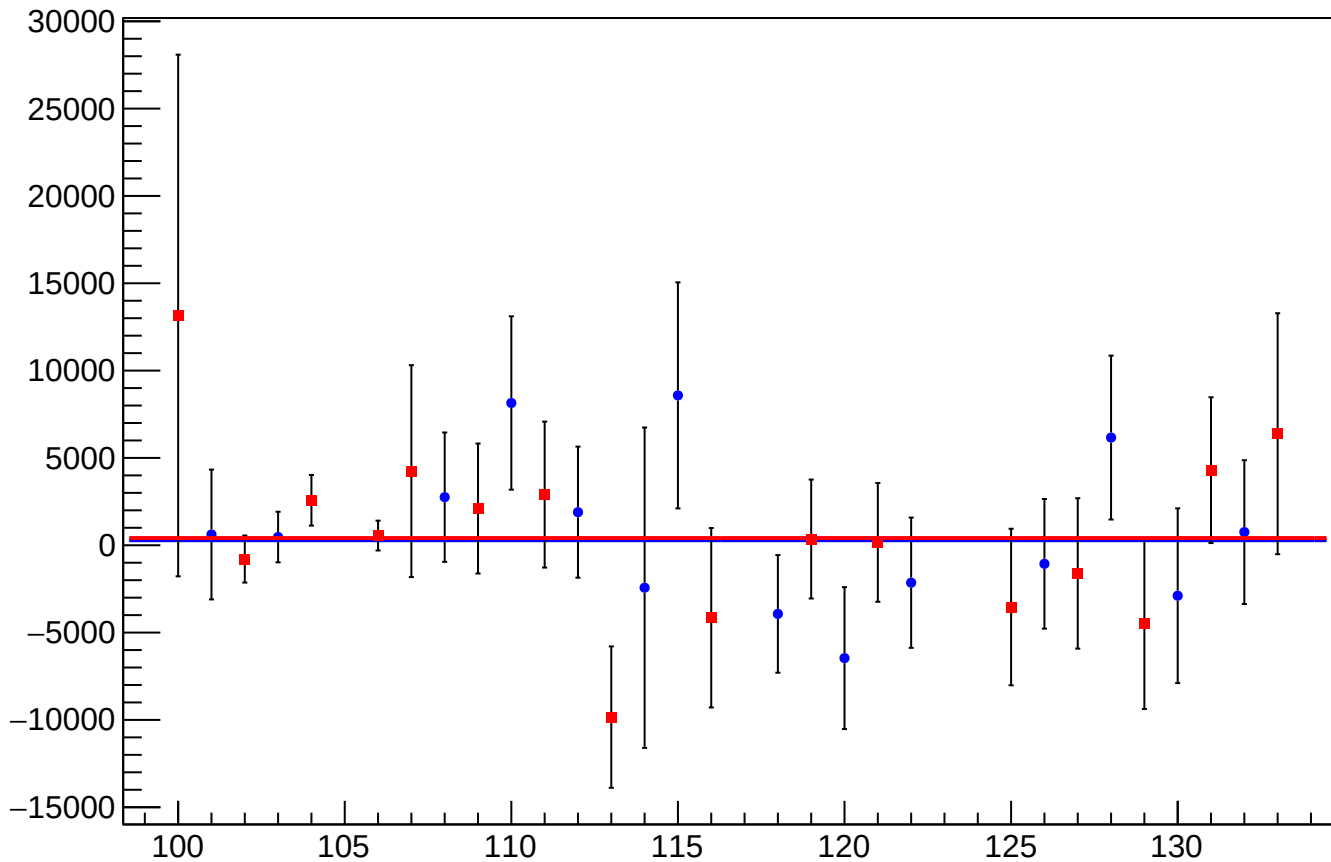
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1162.484 $\pm$ 0.239  $\chi^2$ /NDF: 949697.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 290.459+/-909.986  $\chi^2/\text{NDF}$ : 11.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 411.945+/-572.015  $\chi^2/\text{NDF}$ : 15.6/15

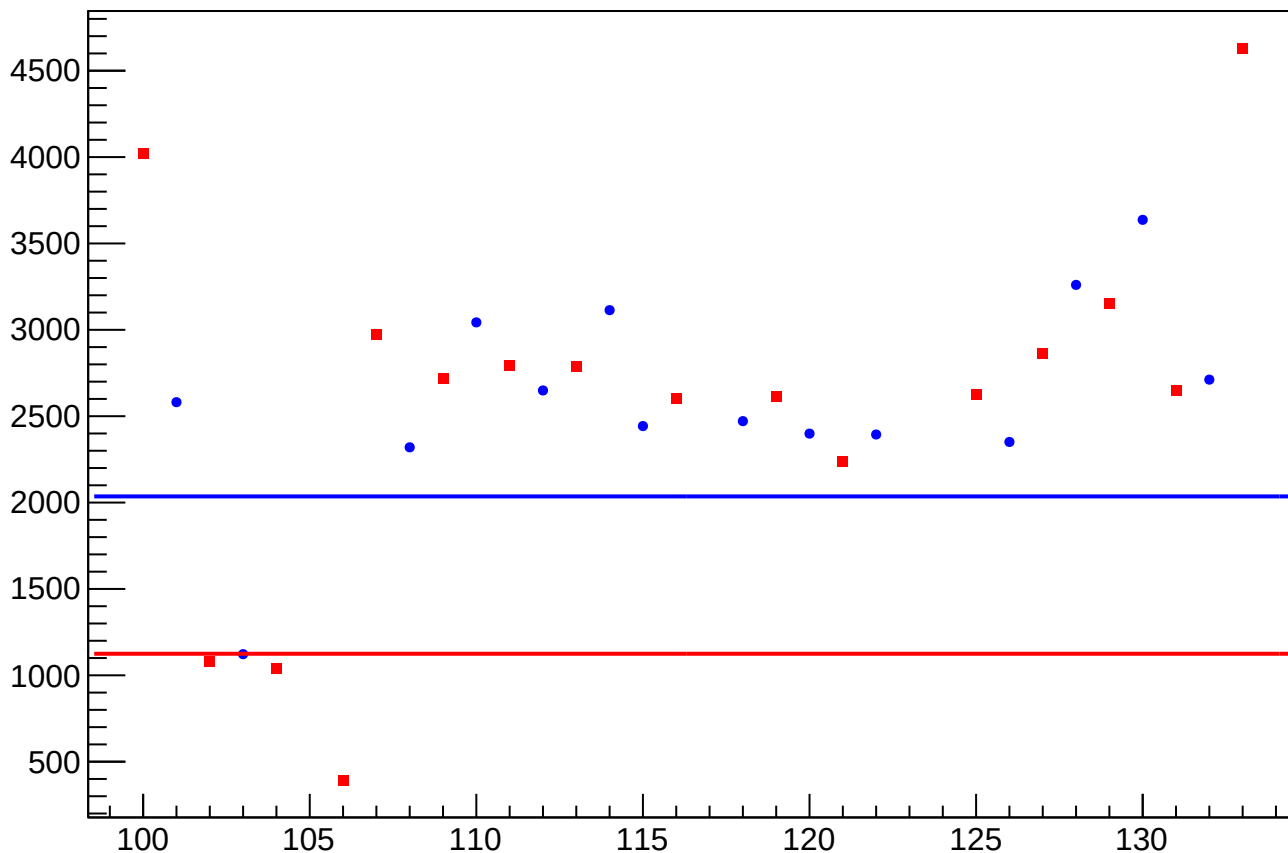
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 377.537+/-484.283  $\chi^2/\text{NDF}$ : 27.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 2035.685+/-0.643  $\chi^2/\text{NDF}$ : 1499648.8/13

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

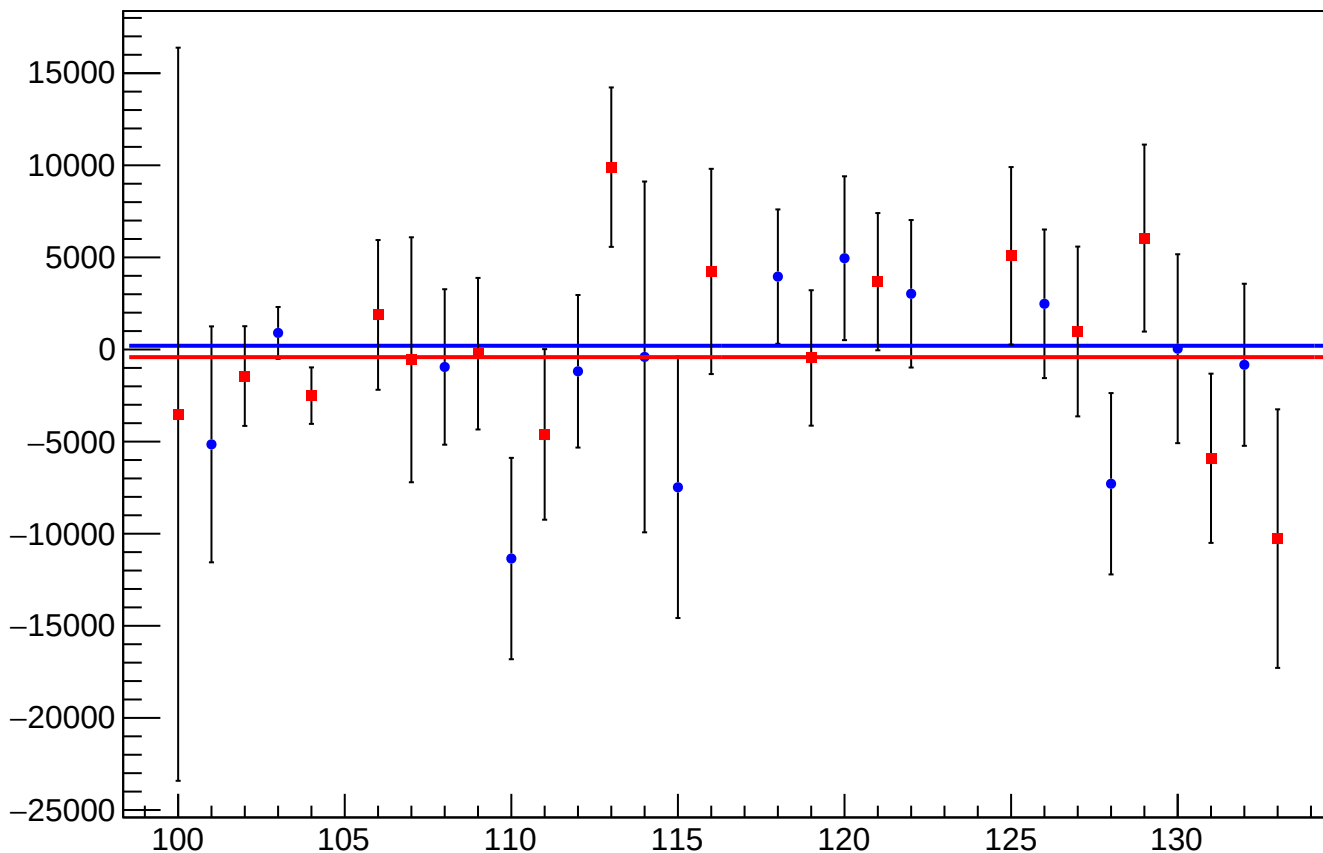
Right Out: 1124.762+/-0.404  $\chi^2/\text{NDF}$ : 5218436.9/15

All: 1382.757+/-0.342  $\chi^2/\text{NDF}$ : 8154592.4/29

- 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\_mean vs Slug



Right In: 202.989+/-958.822  $\chi^2/\text{NDF}$ : 12.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -414.612+/-919.982  $\chi^2/\text{NDF}$ : 17.2/15

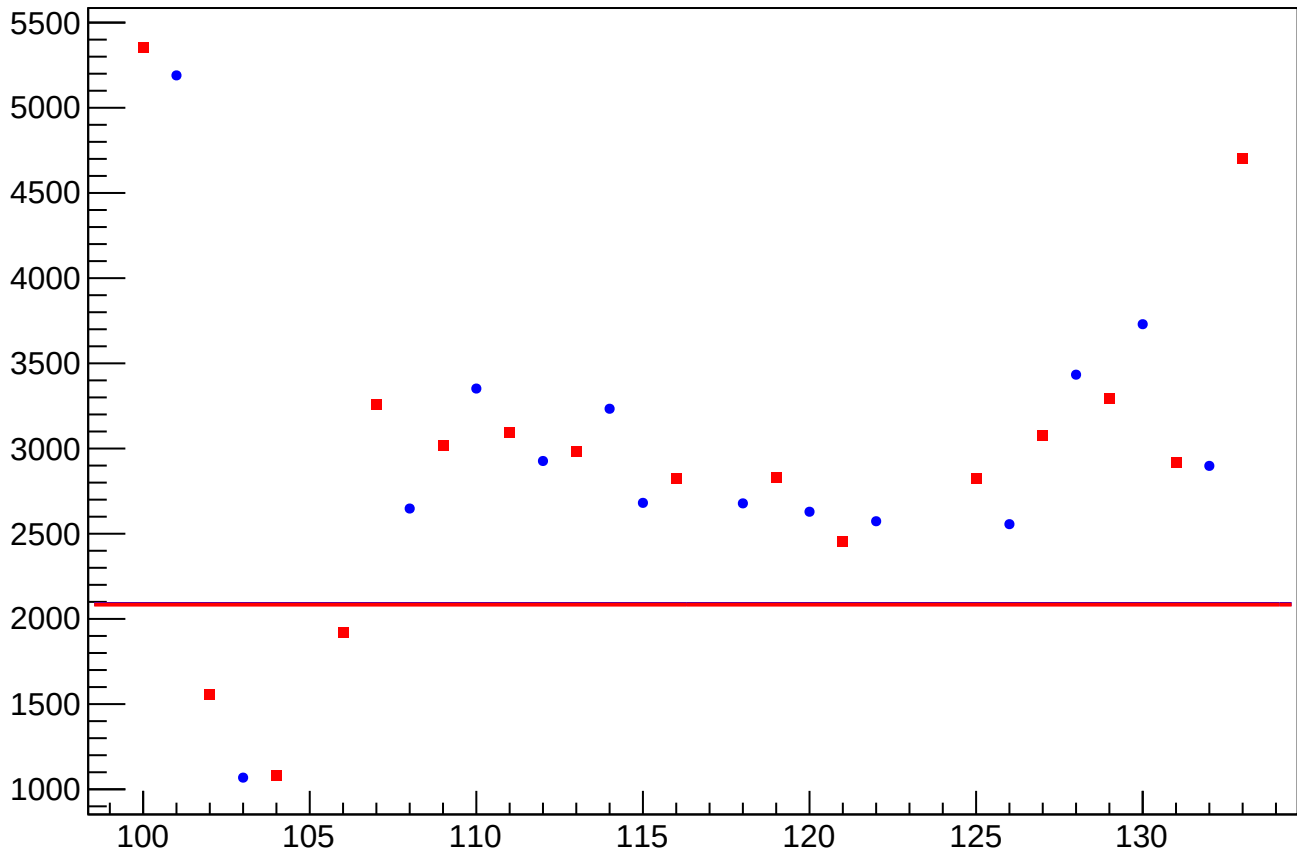
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -118.574+/-663.832  $\chi^2/\text{NDF}$ : 29.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug



Right In: 2087.497+/-0.678  $\chi^2/\text{NDF}$ : 2344644.2/13

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

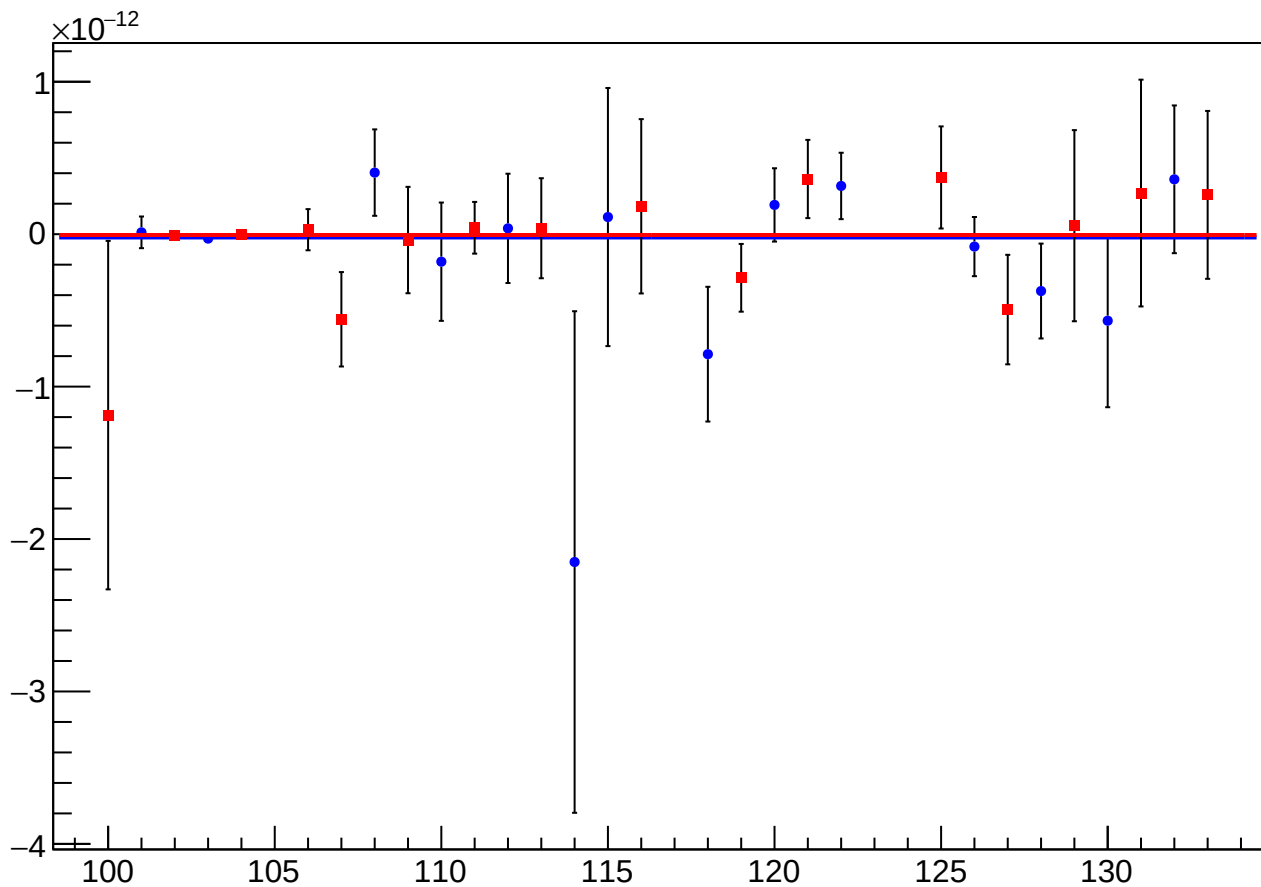
Right Out: 2084.157+/-0.649  $\chi^2/\text{NDF}$ : 2068804.6/15

All: 2085.754+/-0.469  $\chi^2/\text{NDF}$ : 4413461.5/29

- 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\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 13.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 11.7/15

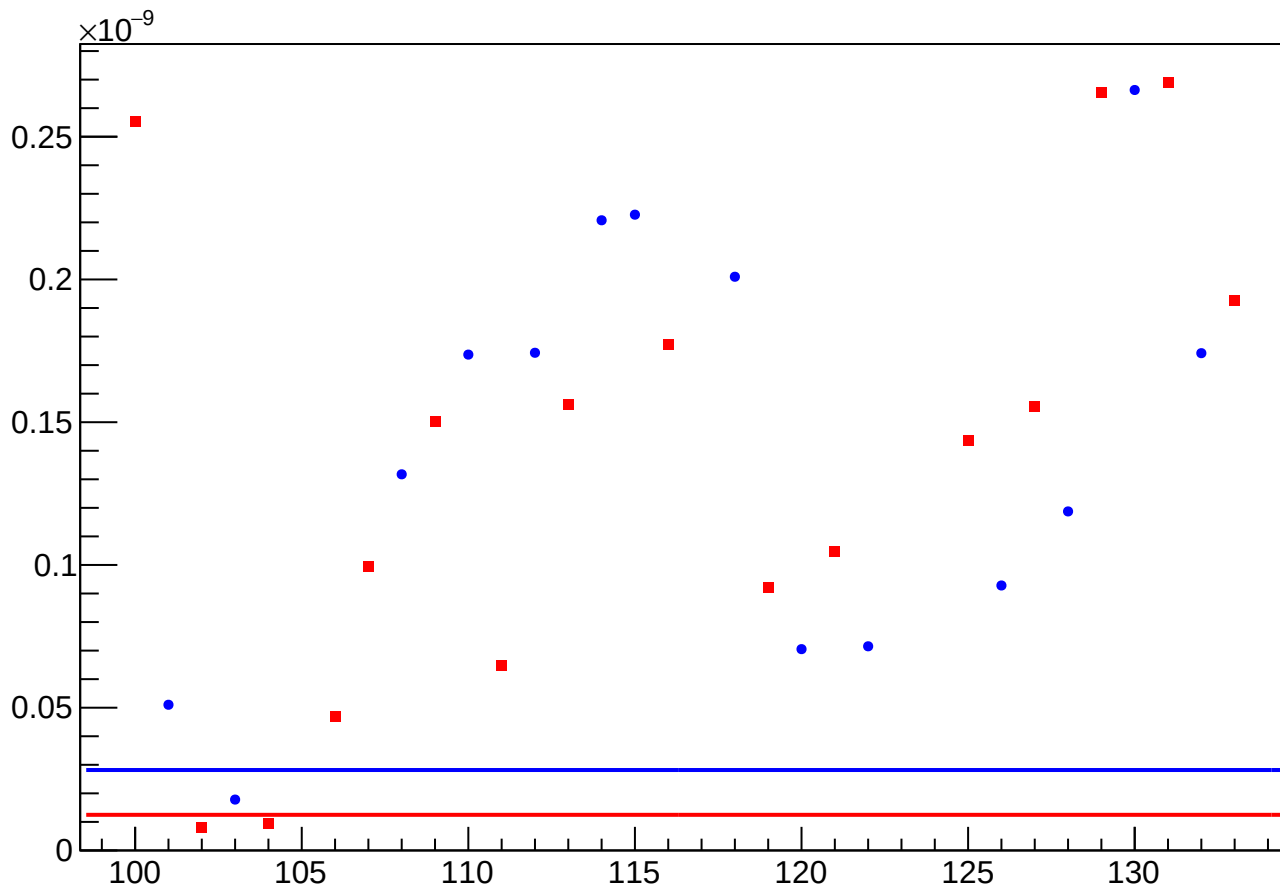
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 25.4/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2738424.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3453788.5/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

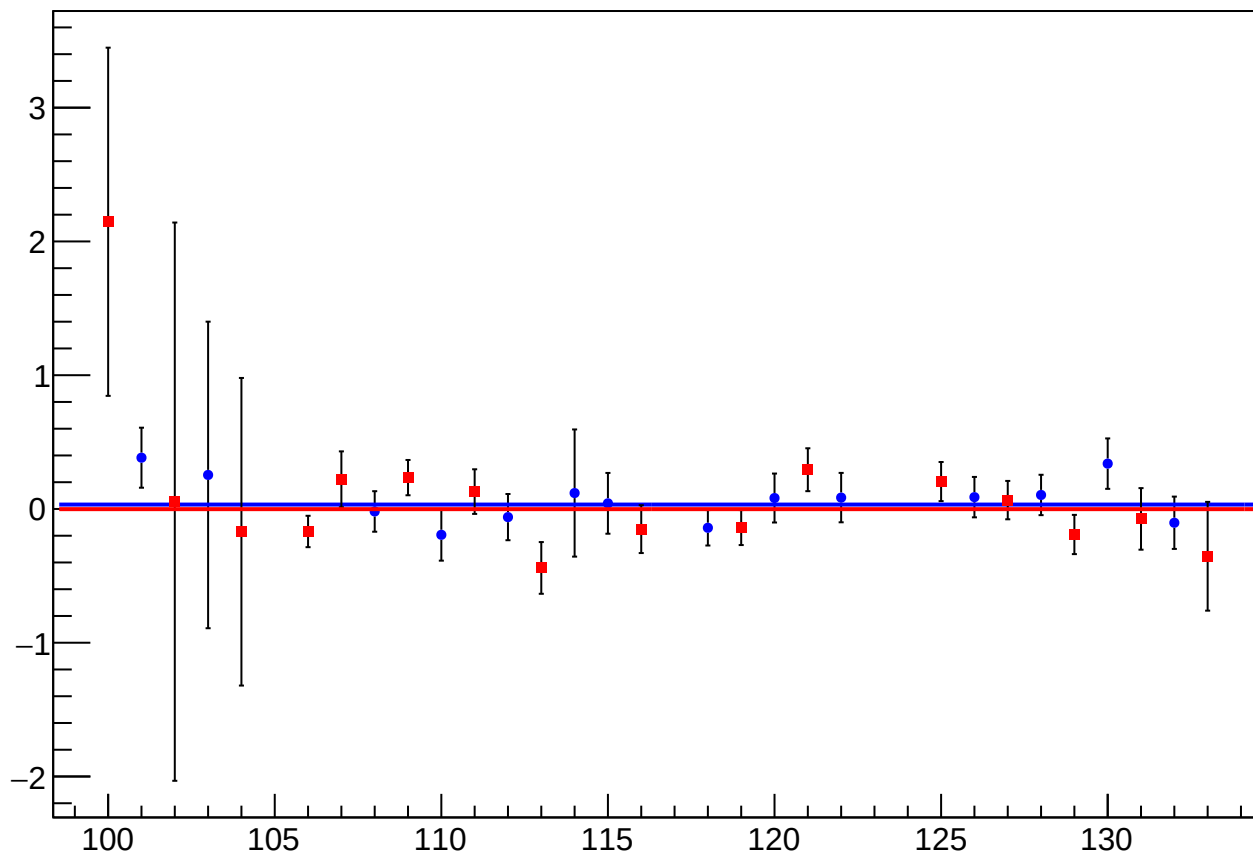
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6718095.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_avg\_atlr\_avg\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.033 $\pm$ 0.050  $\chi^2$ /NDF: 9.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.001 $\pm$ 0.044  $\chi^2$ /NDF: 24.8/15

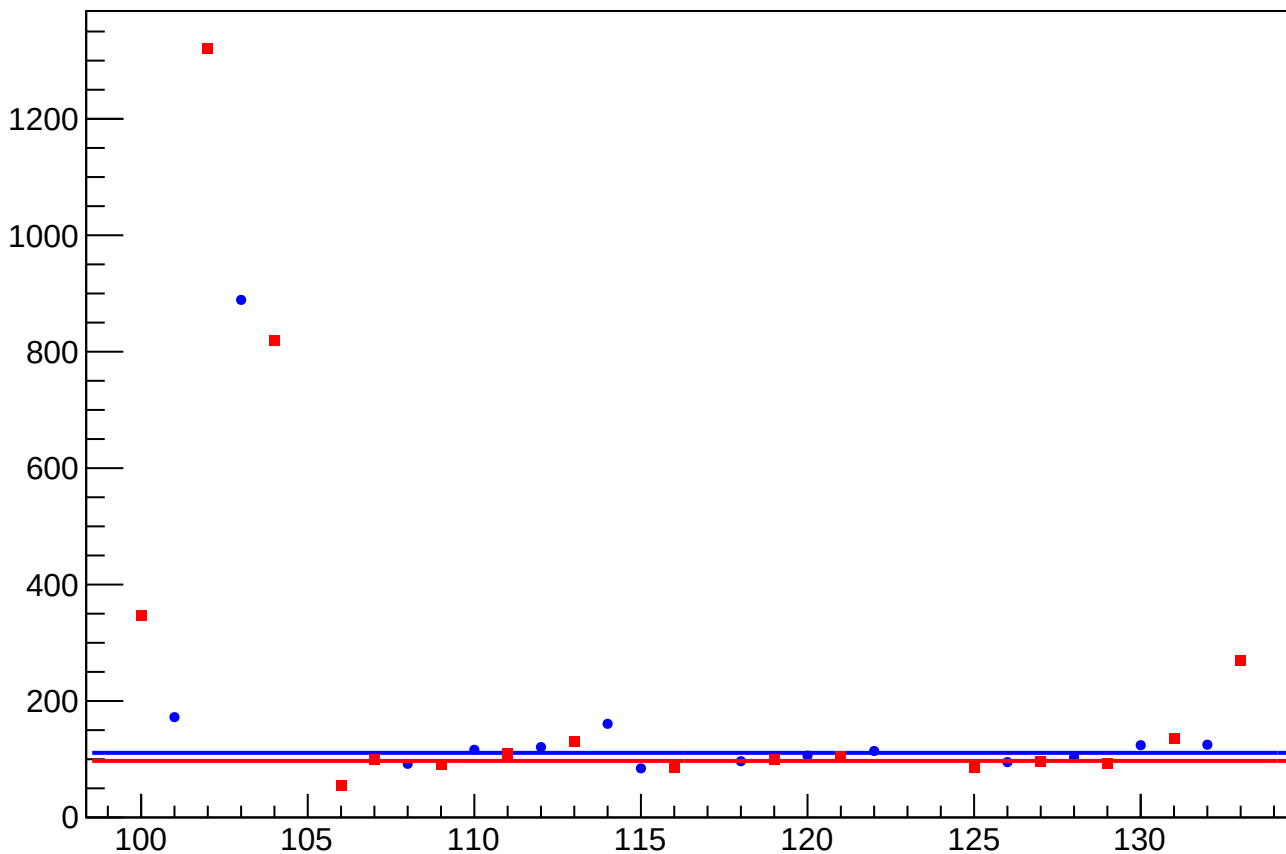
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.014 $\pm$ 0.033  $\chi^2$ /NDF: 34.7/29

- 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: 110.980 $\pm$ 0.035  $\chi^2$ /NDF: 1232927.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 97.151 $\pm$ 0.031  $\chi^2$ /NDF: 2325893.3/15

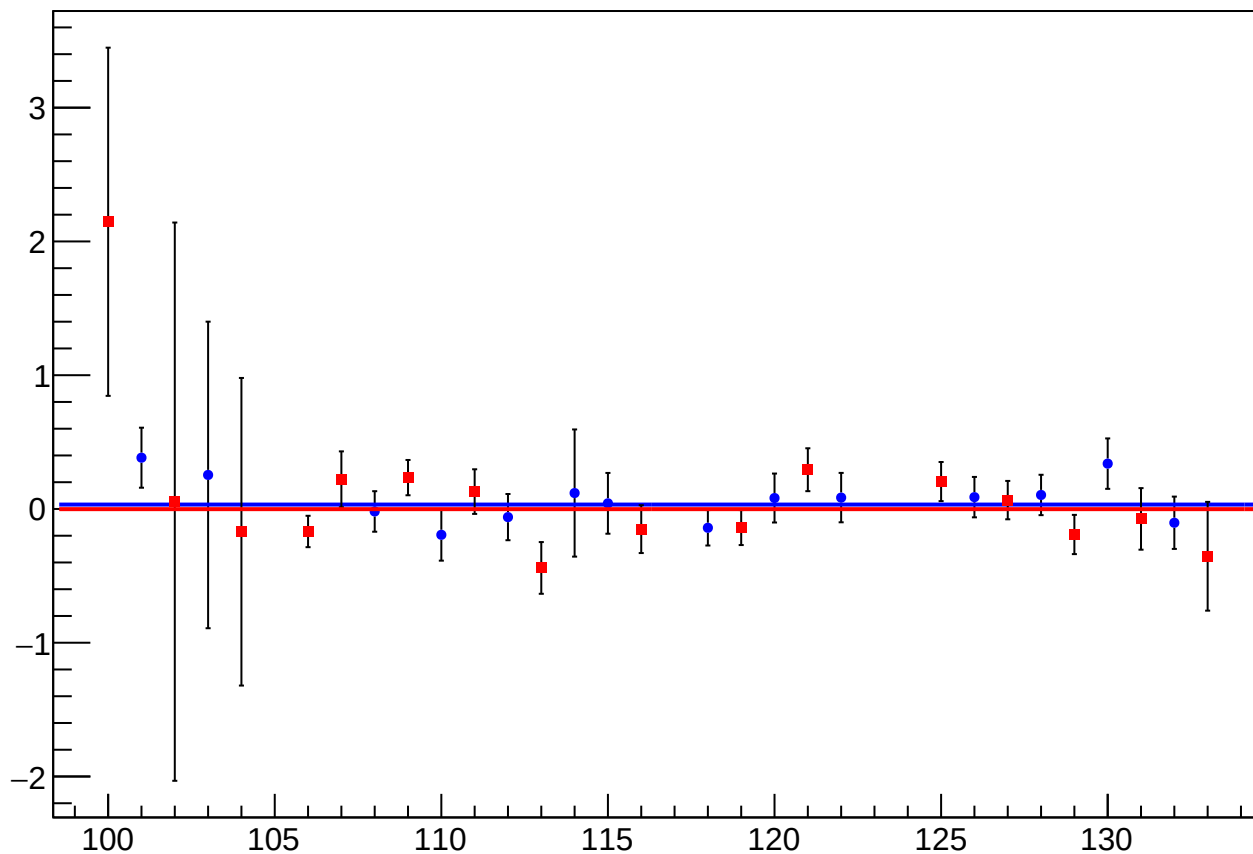
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 103.266 $\pm$ 0.023  $\chi^2$ /NDF: 3645551.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.033 $\pm$ 0.050  $\chi^2$ /NDF: 9.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.001 $\pm$ 0.044  $\chi^2$ /NDF: 24.8/15

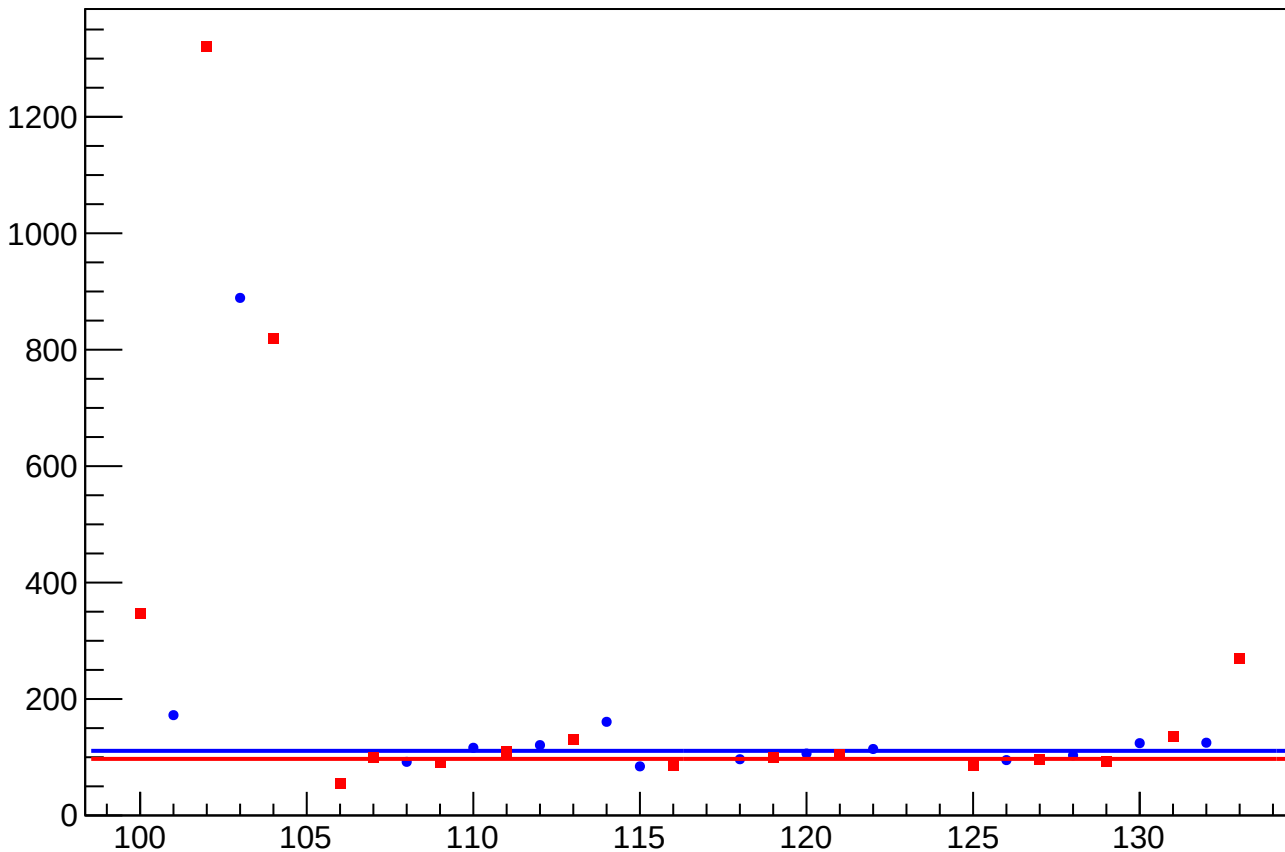
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.014 $\pm$ 0.033  $\chi^2$ /NDF: 34.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 110.980+/-0.035  $\chi^2/\text{NDF}$ : 1232927.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 97.151+/-0.031  $\chi^2/\text{NDF}$ : 2325893.3/15

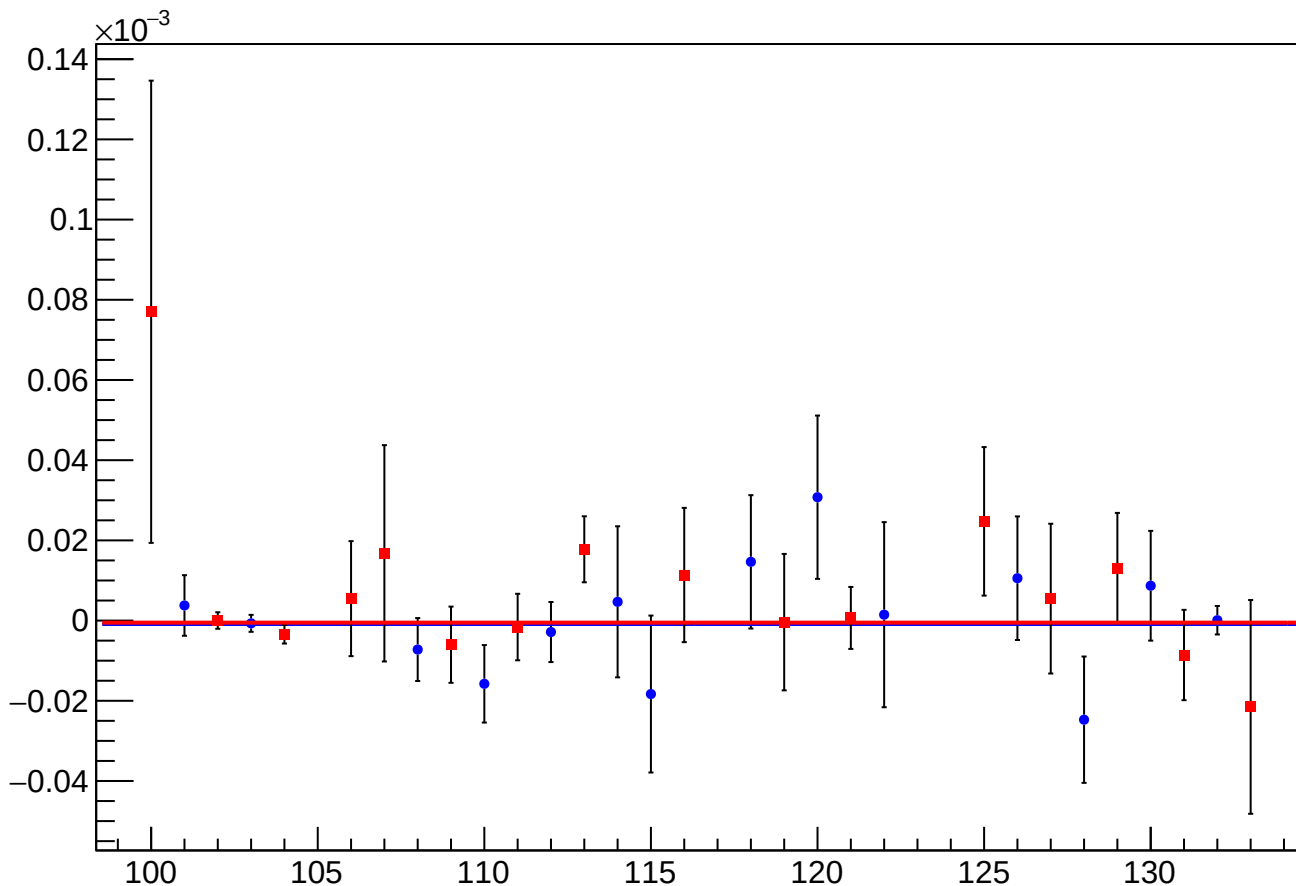
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 103.266+/-0.023  $\chi^2/\text{NDF}$ : 3645551.4/29

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 11.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.9/15

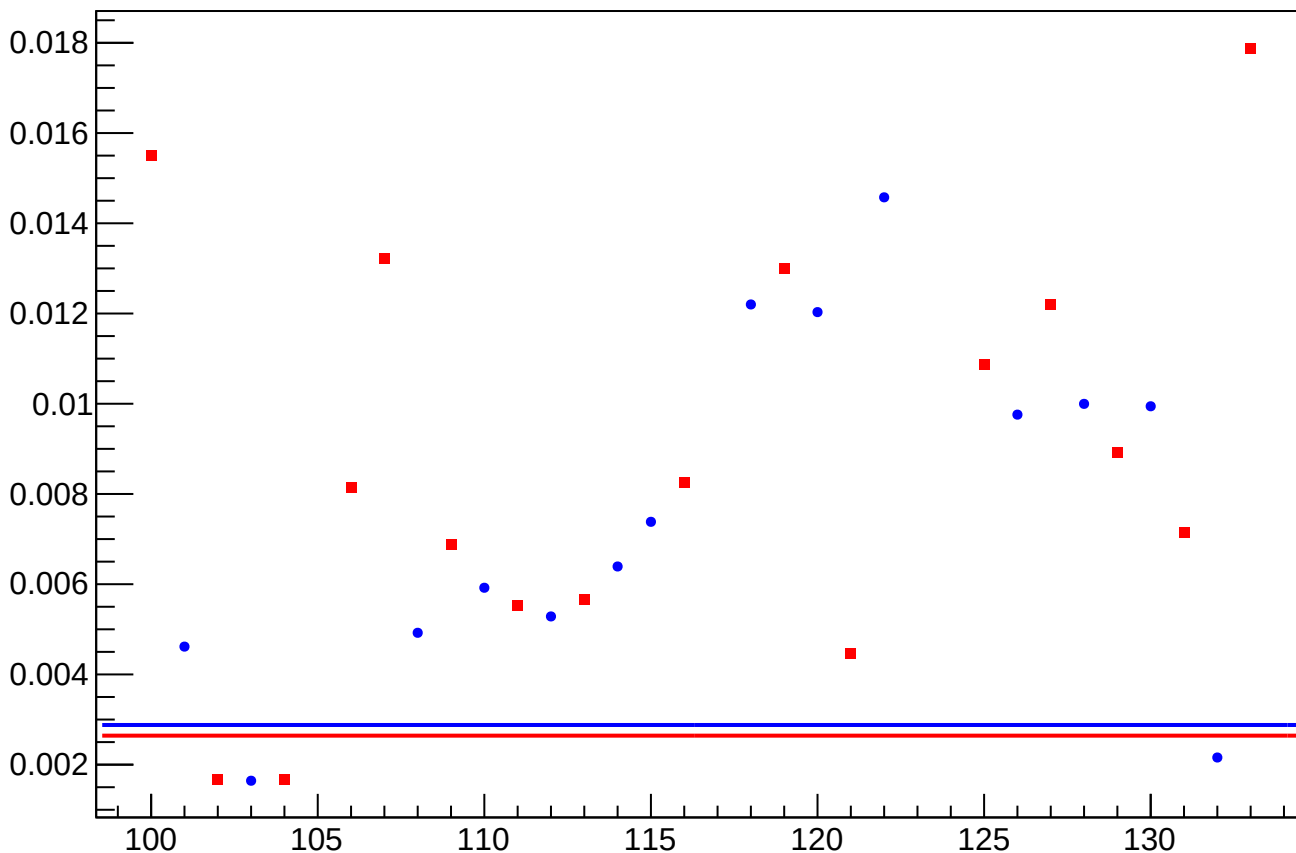
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 25.0/29

- sign 0.000 $\pm$ 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  $\chi^2/\text{NDF}$ : 4473967.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 5788601.9/15

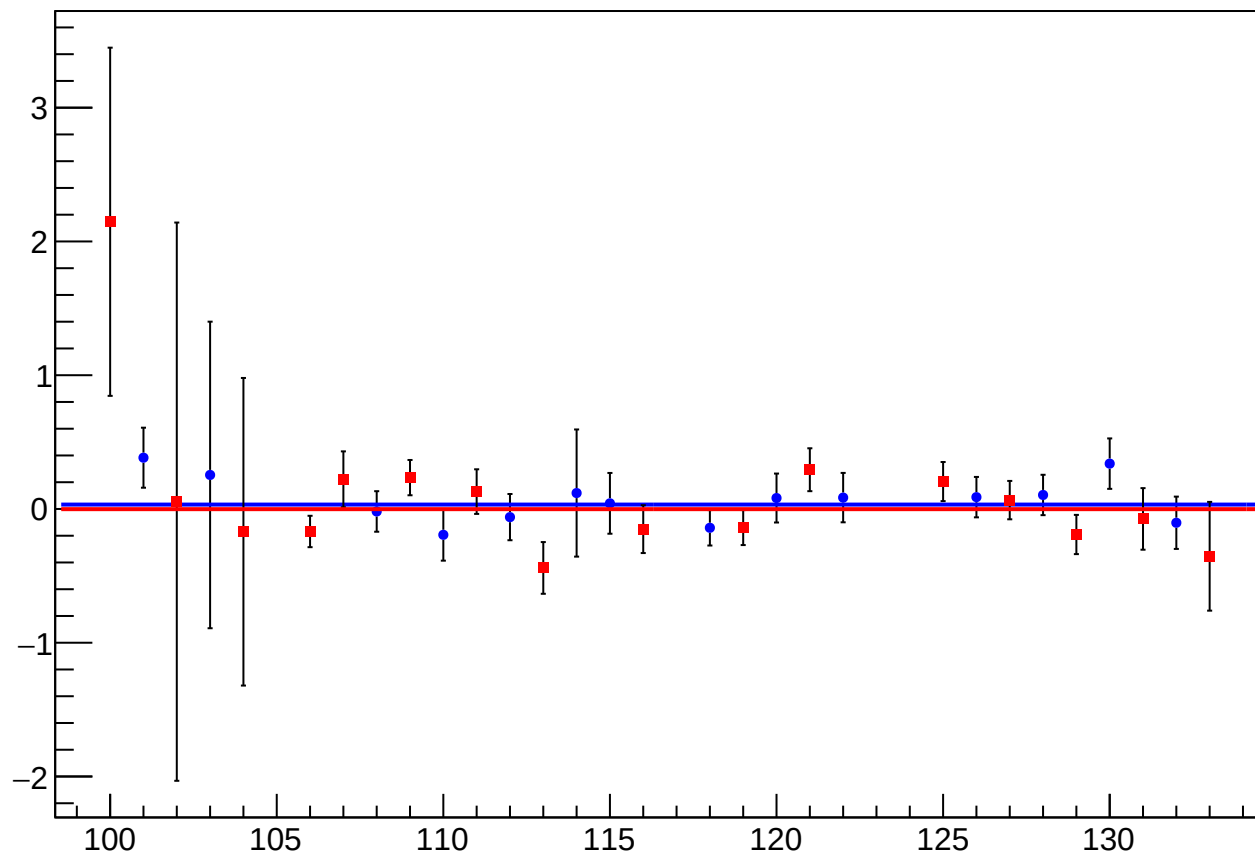
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 10287340.4/29

- 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: 0.033+/-0.050  $\chi^2/\text{NDF}$ : 9.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.001+/-0.044  $\chi^2/\text{NDF}$ : 24.8/15

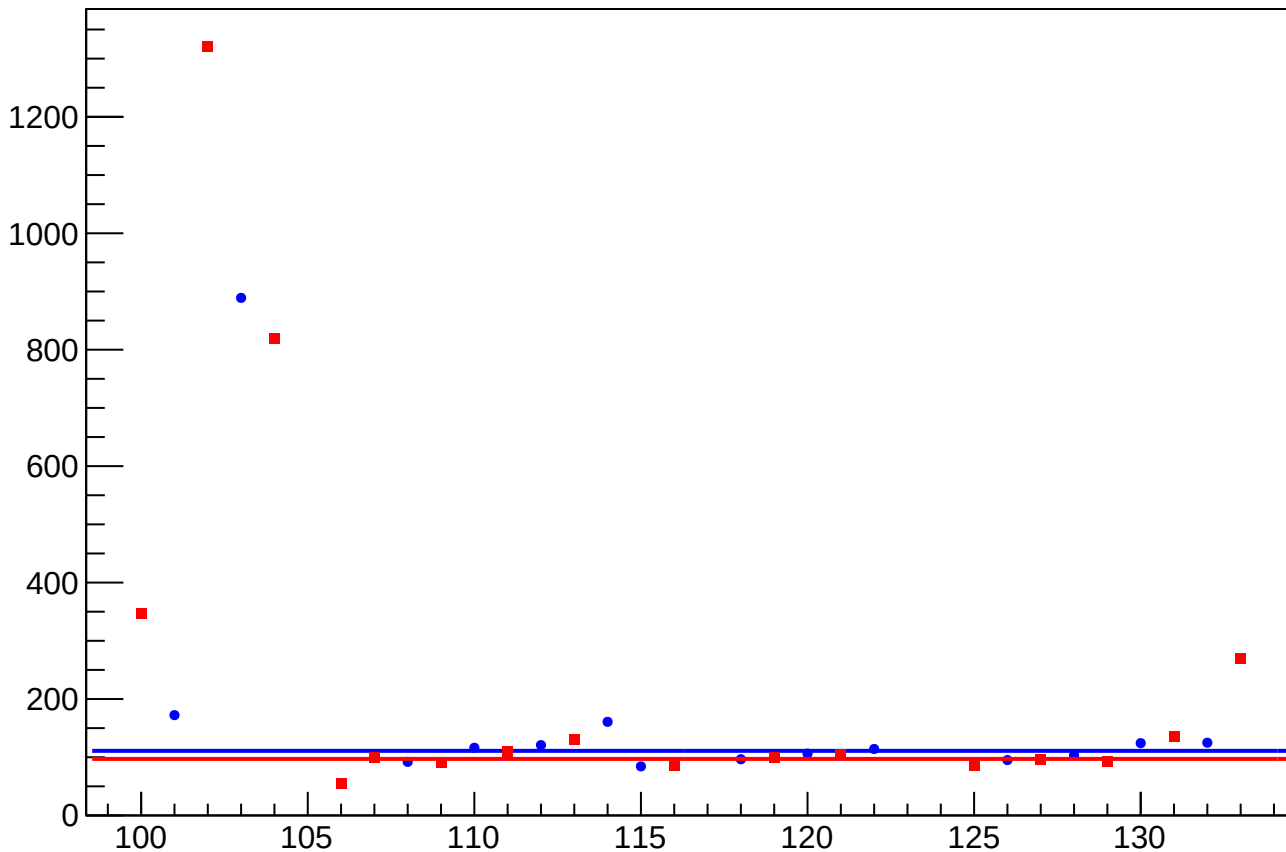
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.033  $\chi^2/\text{NDF}$ : 34.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 110.980 $\pm$ 0.035  $\chi^2$ /NDF: 1232912.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 97.150 $\pm$ 0.031  $\chi^2$ /NDF: 2325952.0/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

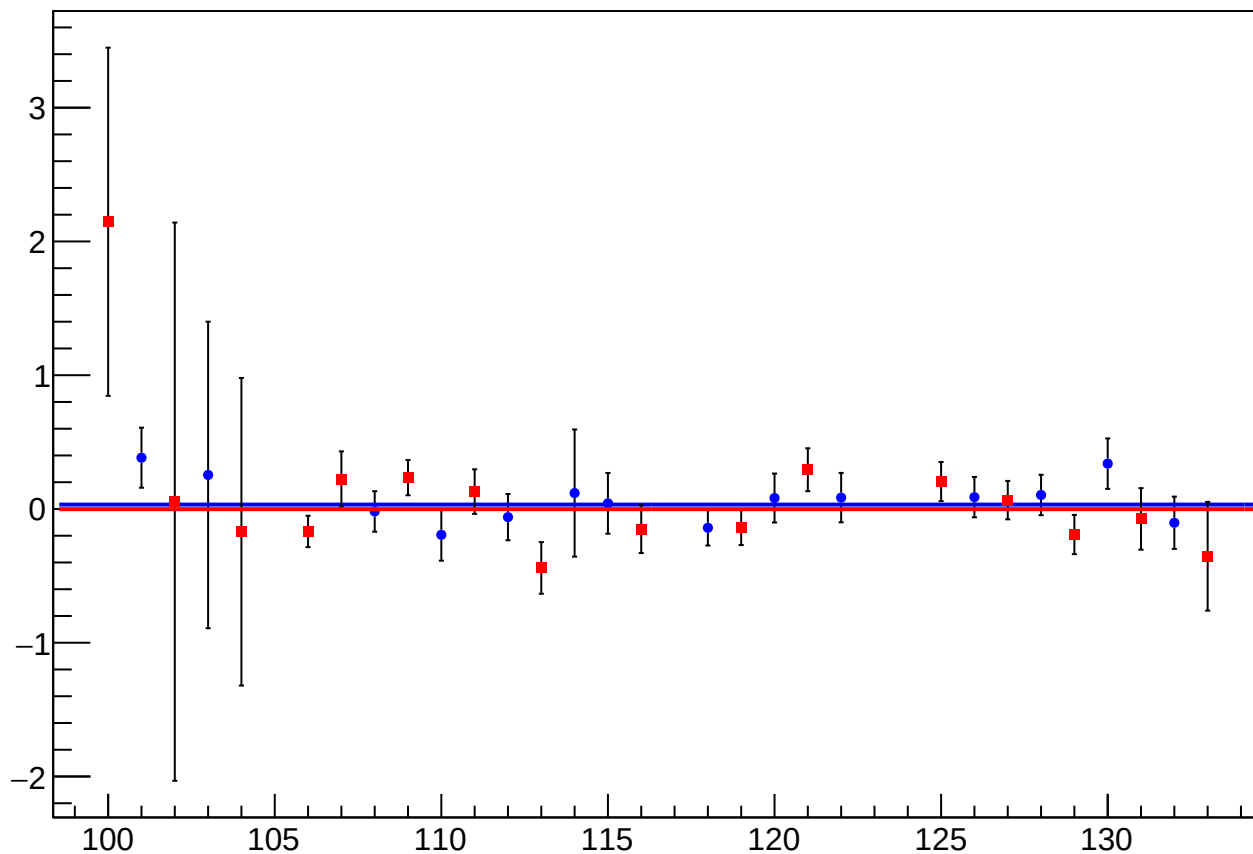
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 103.265 $\pm$ 0.023  $\chi^2$ /NDF: 3645606.3/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.033+/-0.050  $\chi^2/\text{NDF}$ : 9.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.001+/-0.044  $\chi^2/\text{NDF}$ : 24.8/15

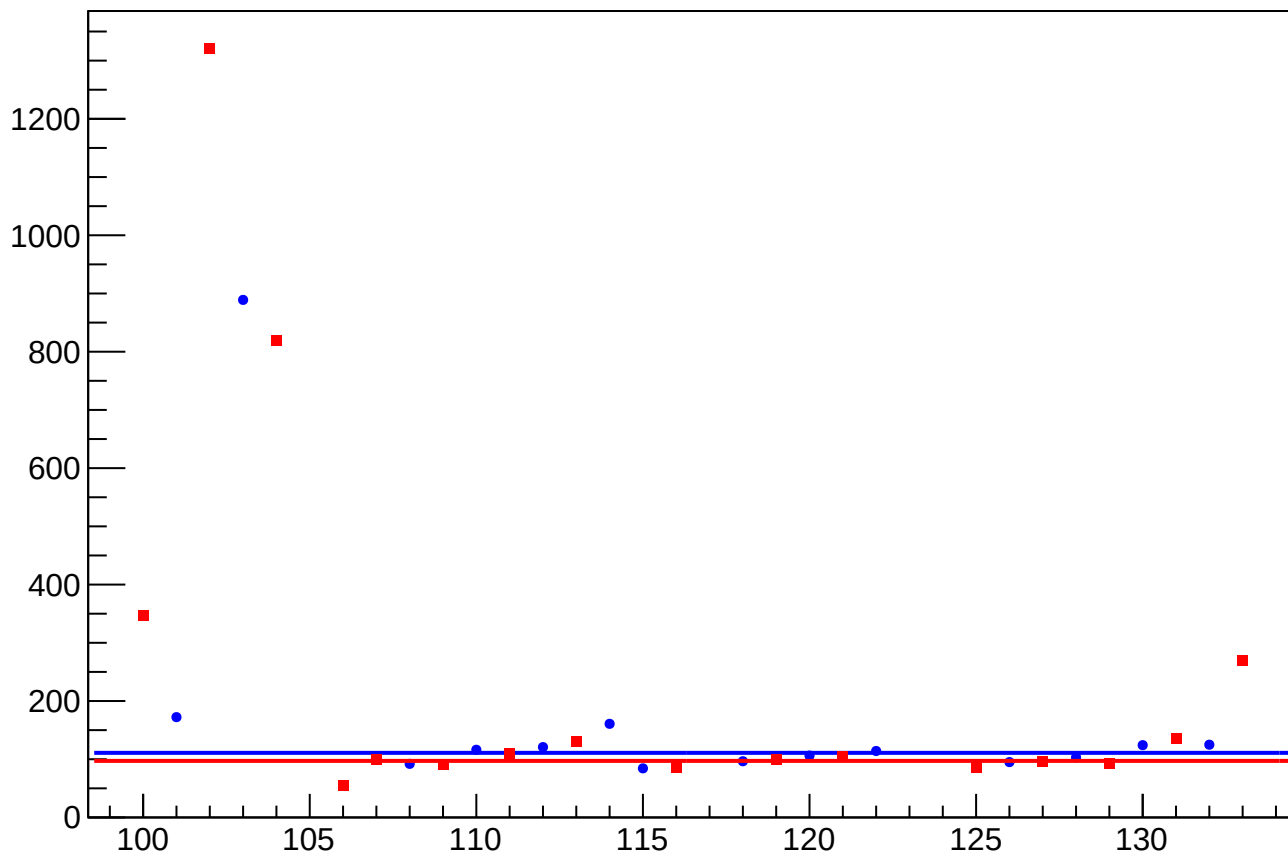
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.033  $\chi^2/\text{NDF}$ : 34.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 110.980+/-0.035  $\chi^2/\text{NDF}$ : 1232912.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 97.150+/-0.031  $\chi^2/\text{NDF}$ : 2325952.0/15

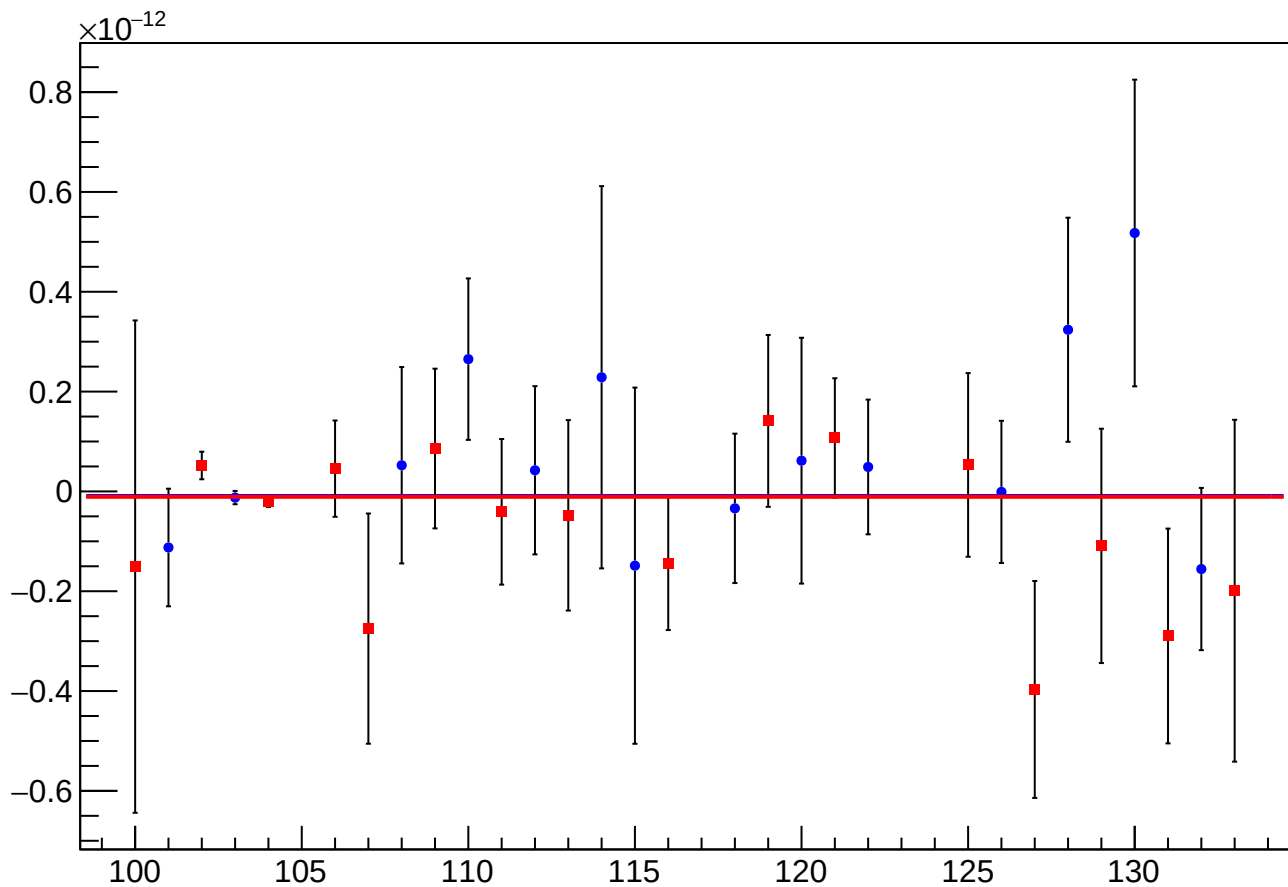
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 103.265+/-0.023  $\chi^2/\text{NDF}$ : 3645606.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.2/15

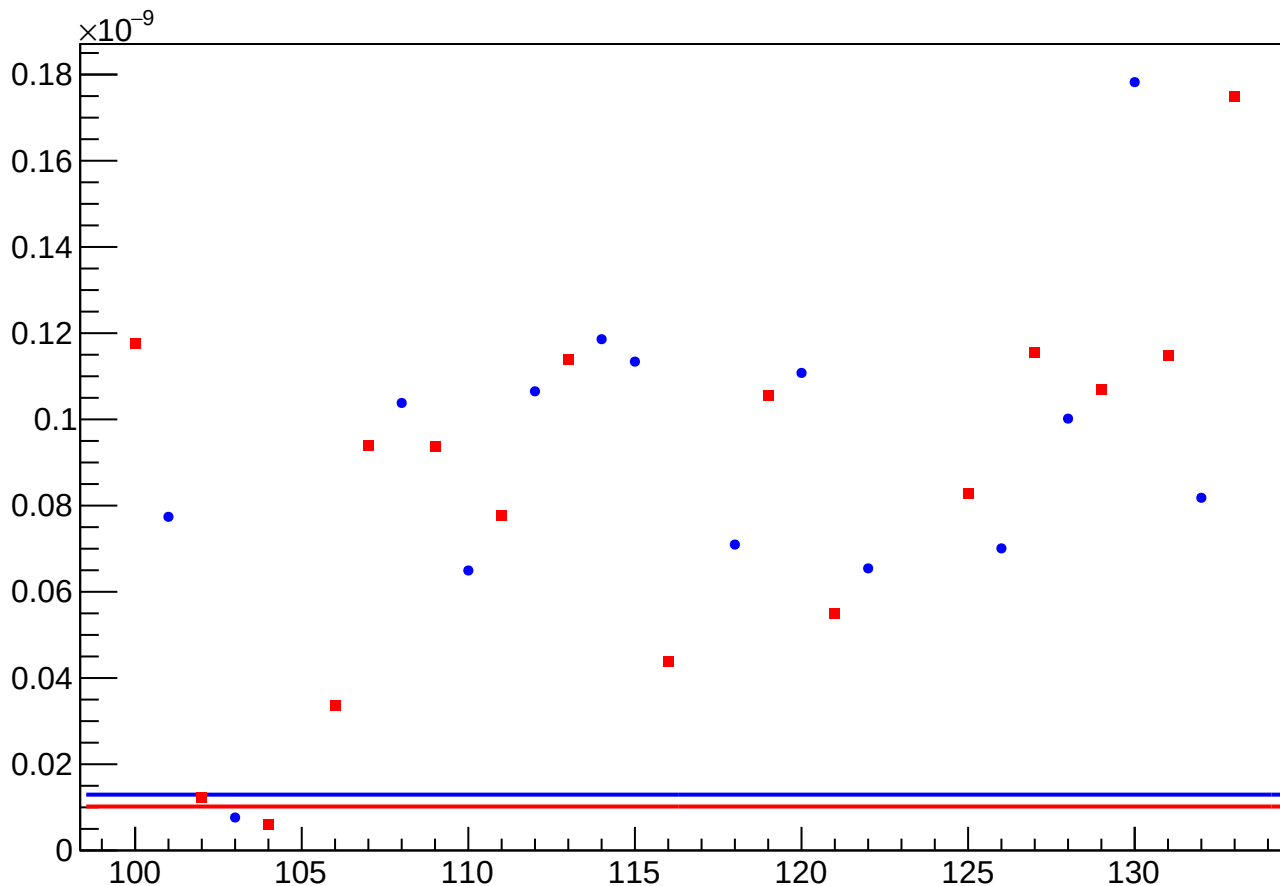
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 26.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4955548.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5423312.6/15

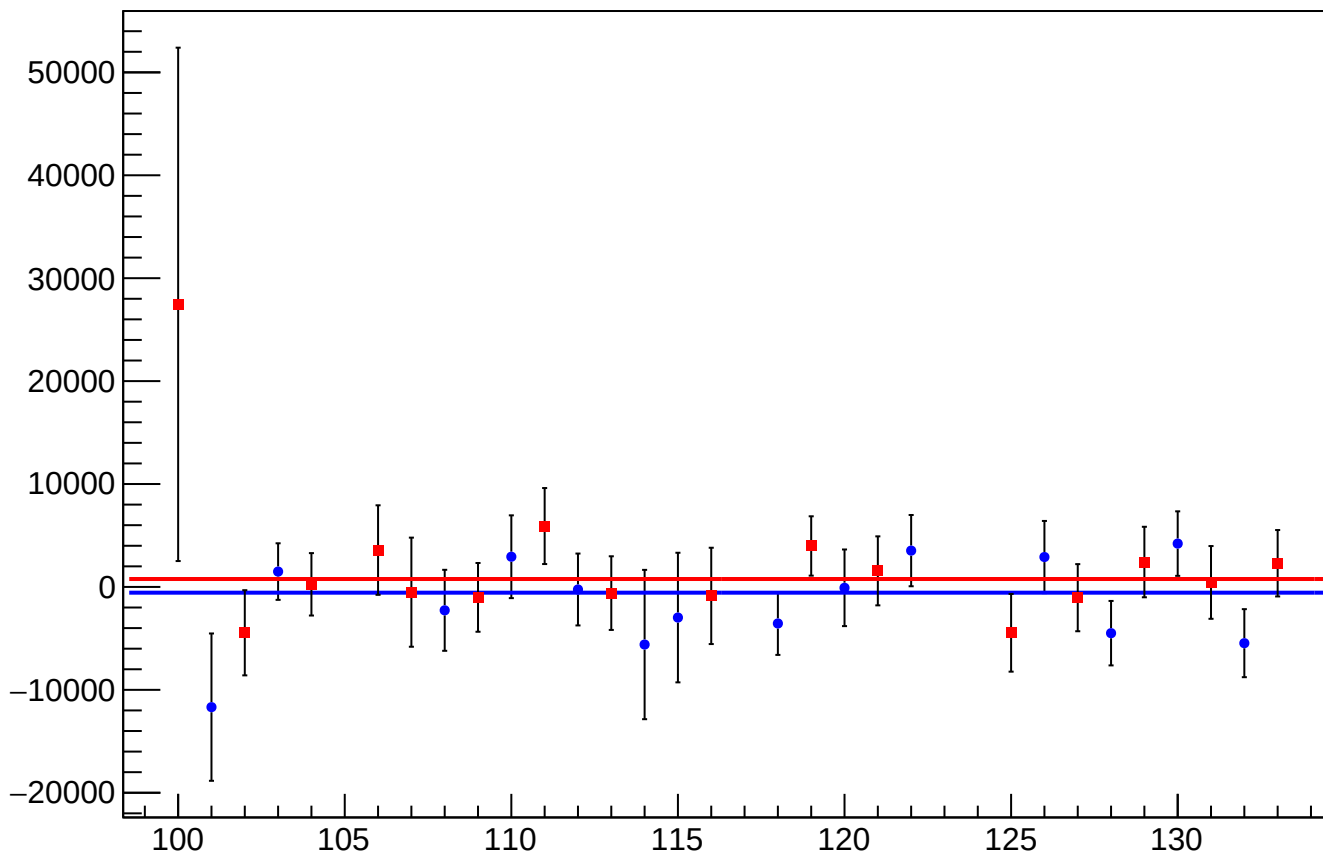
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10435852.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: -558.474+/-978.757  $\chi^2/\text{NDF}$ : 14.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 770.375+/-921.118  $\chi^2/\text{NDF}$ : 9.7/15

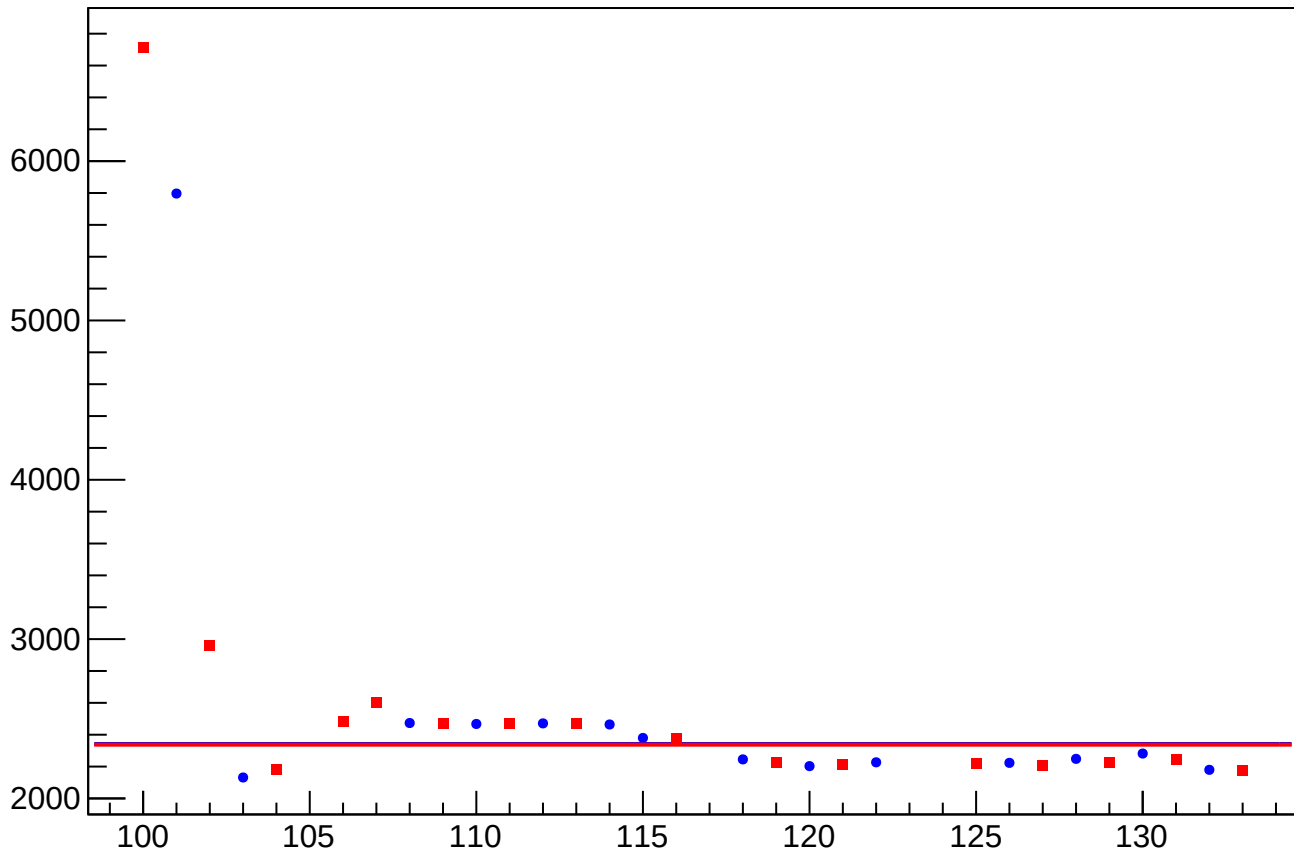
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 146.229+/-670.780  $\chi^2/\text{NDF}$ : 24.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2341.457+/-0.692  $\chi^2/\text{NDF}$ : 501809.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2337.612+/-0.651  $\chi^2/\text{NDF}$ : 147125.0/15

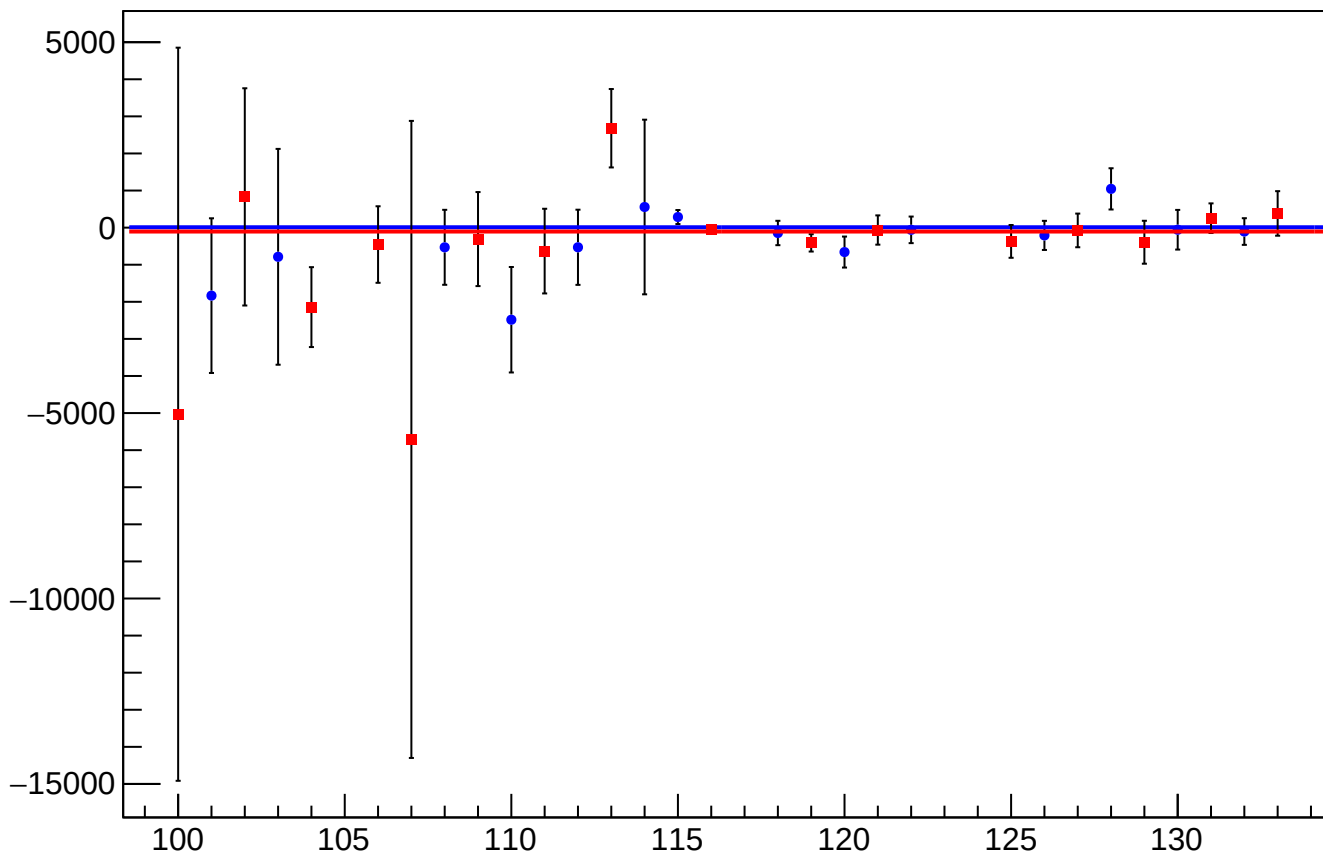
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2339.418+/-0.474  $\chi^2/\text{NDF}$ : 648951.1/29

- 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: 10.028+/-115.689  $\chi^2/\text{NDF}$ : 13.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -105.119+/-93.481  $\chi^2/\text{NDF}$ : 15.7/15

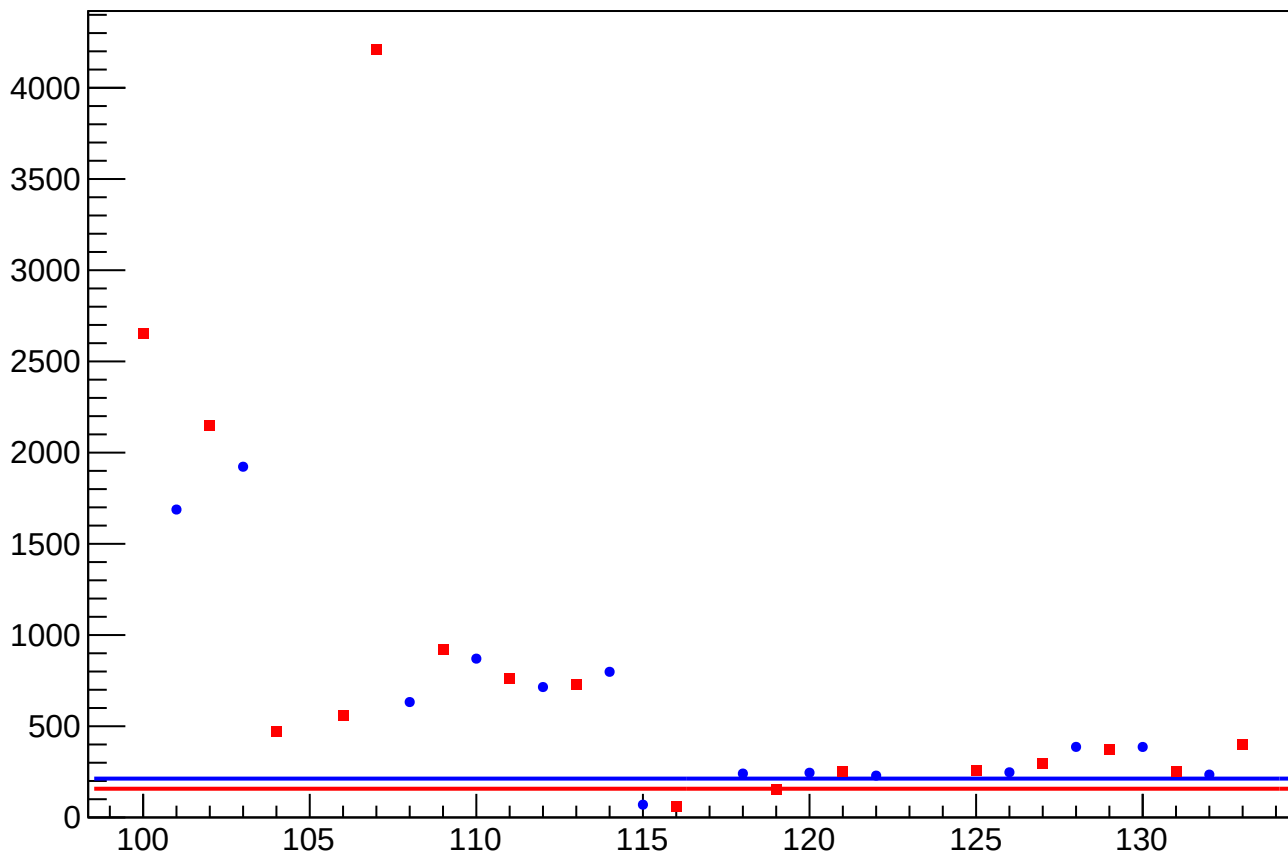
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -59.634+/-72.710  $\chi^2/\text{NDF}$ : 29.7/29

- 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: 213.008+/-0.082  $\chi^2/\text{NDF}$ : 4680753.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 157.456+/-0.066  $\chi^2/\text{NDF}$ : 6144727.0/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

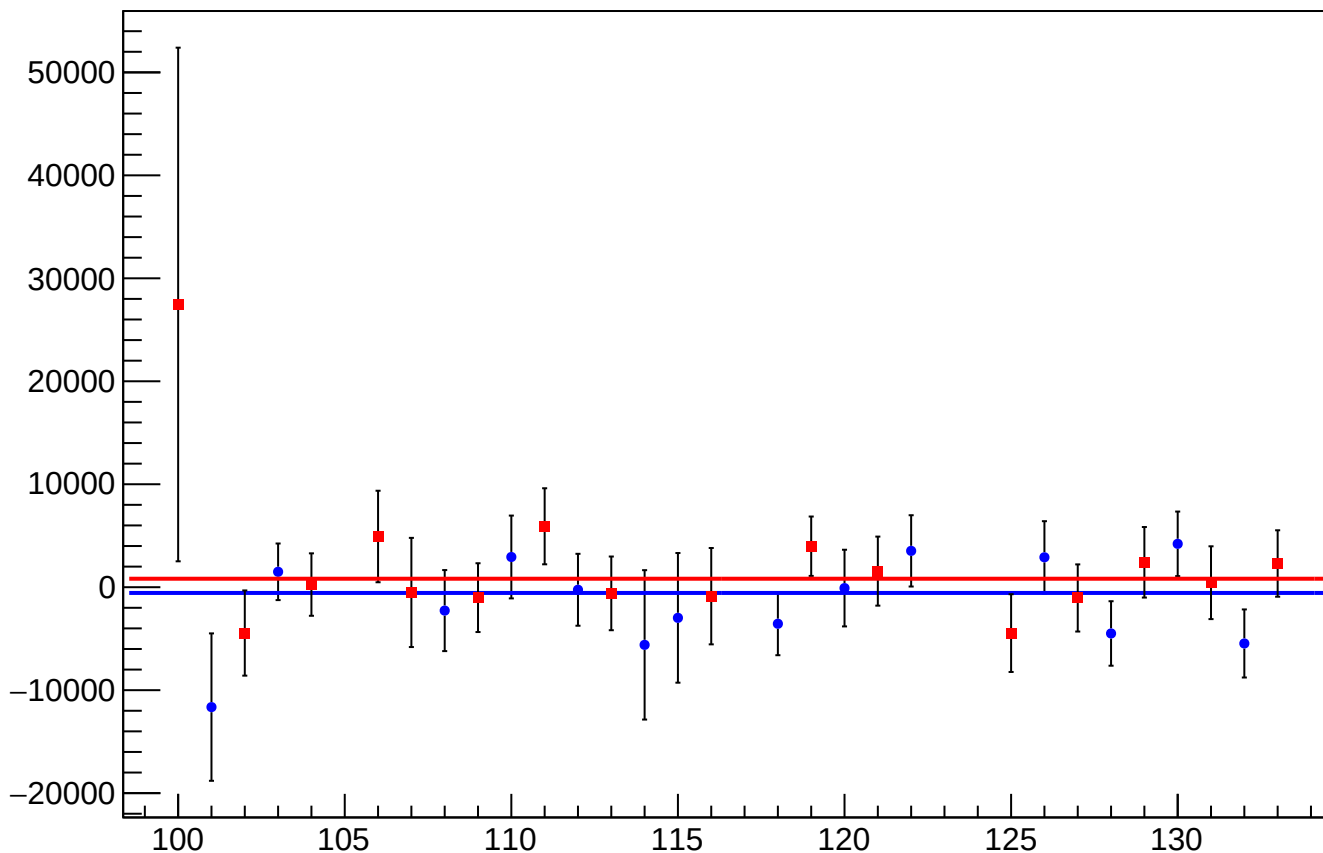
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 179.399+/-0.051  $\chi^2/\text{NDF}$ : 11104473.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# cor\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: -557.250+/-978.757  $\chi^2$ /NDF: 14.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 823.644+/-921.975  $\chi^2$ /NDF: 10.2/15

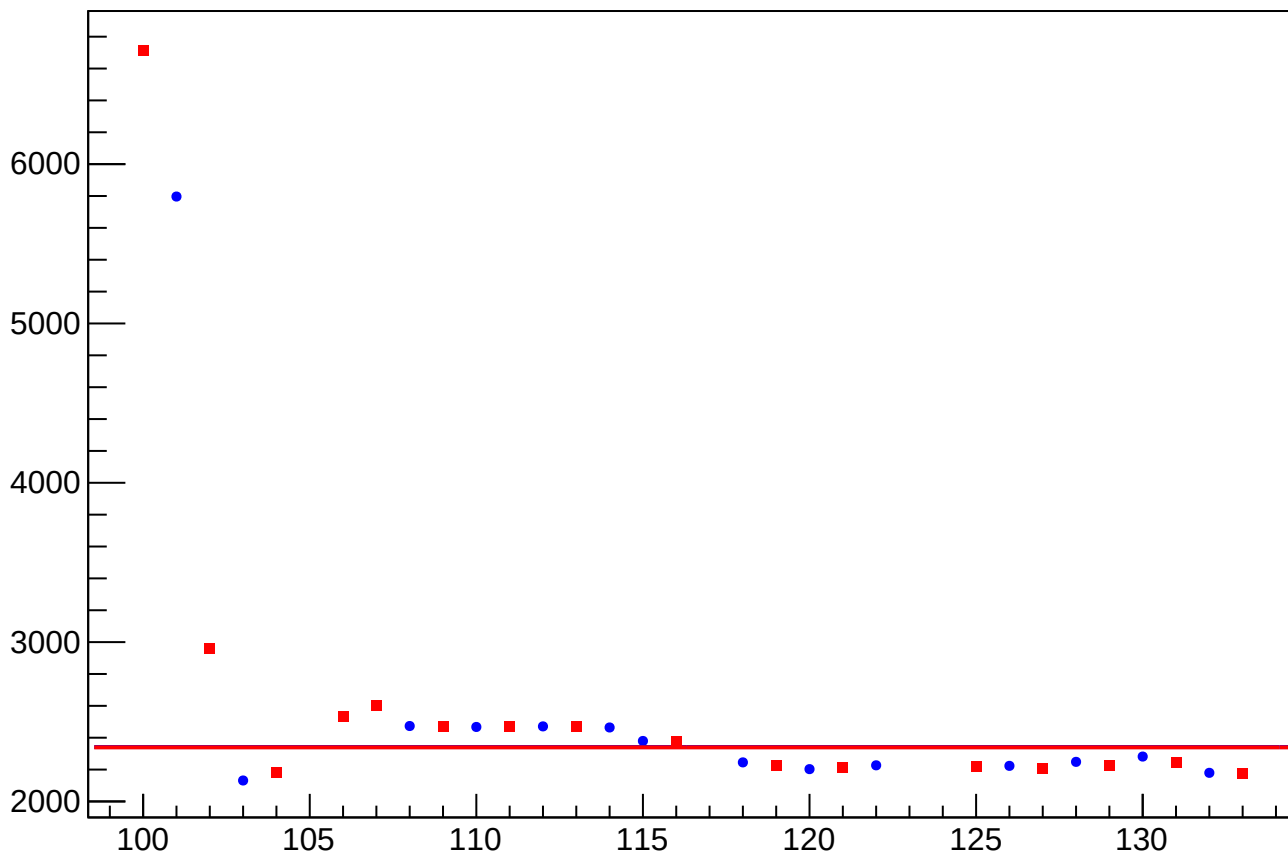
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 174.412+/-671.111  $\chi^2$ /NDF: 25.2/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2341.457+/-0.692  $\chi^2/\text{NDF}$ : 501810.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2339.523+/-0.652  $\chi^2/\text{NDF}$ : 148784.9/15

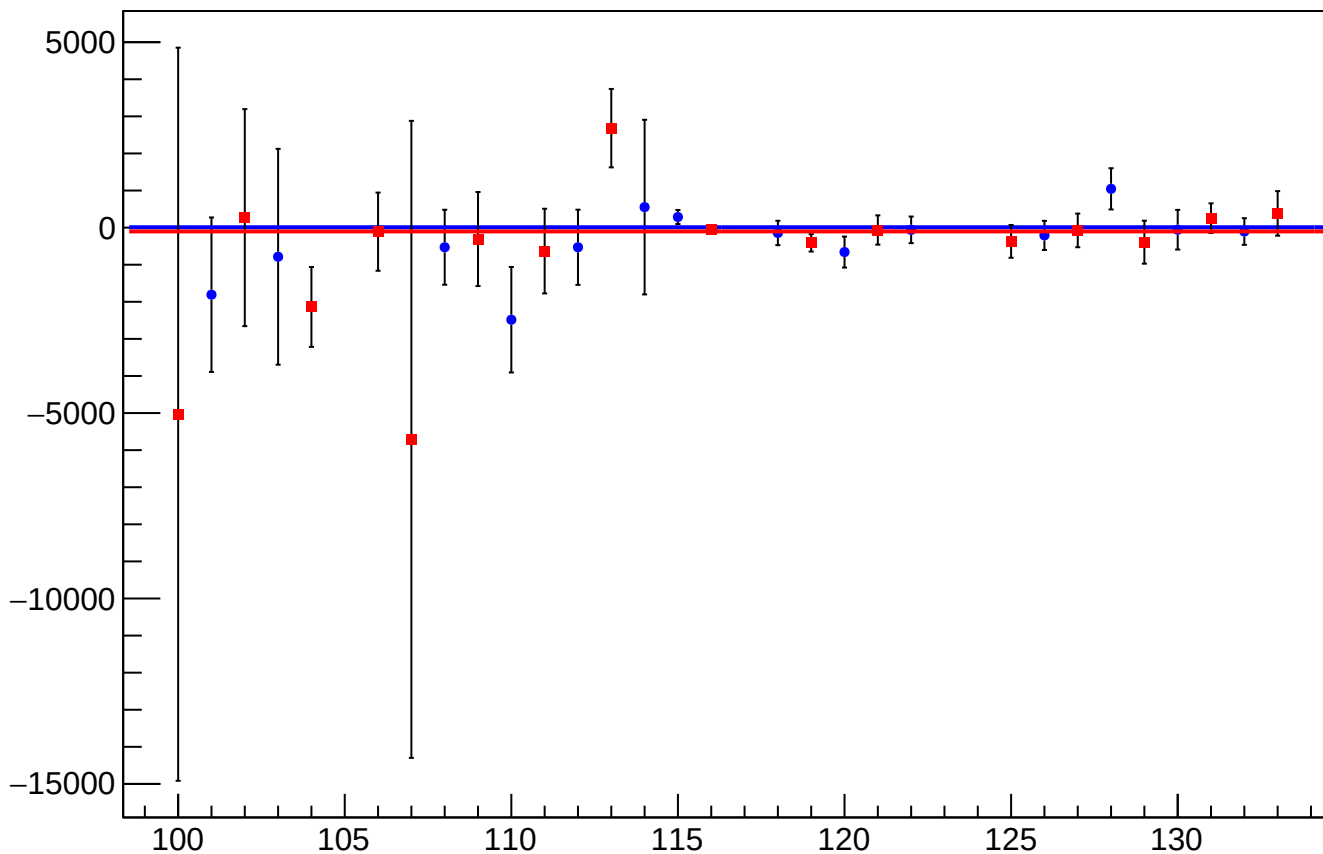
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2340.432+/-0.475  $\chi^2/\text{NDF}$ : 650599.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_cor\_correction\_mean vs Slug



Right In: 10.136+/-115.707  $\chi^2/\text{NDF}$ : 13.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -102.172+/-93.387  $\chi^2/\text{NDF}$ : 15.5/15

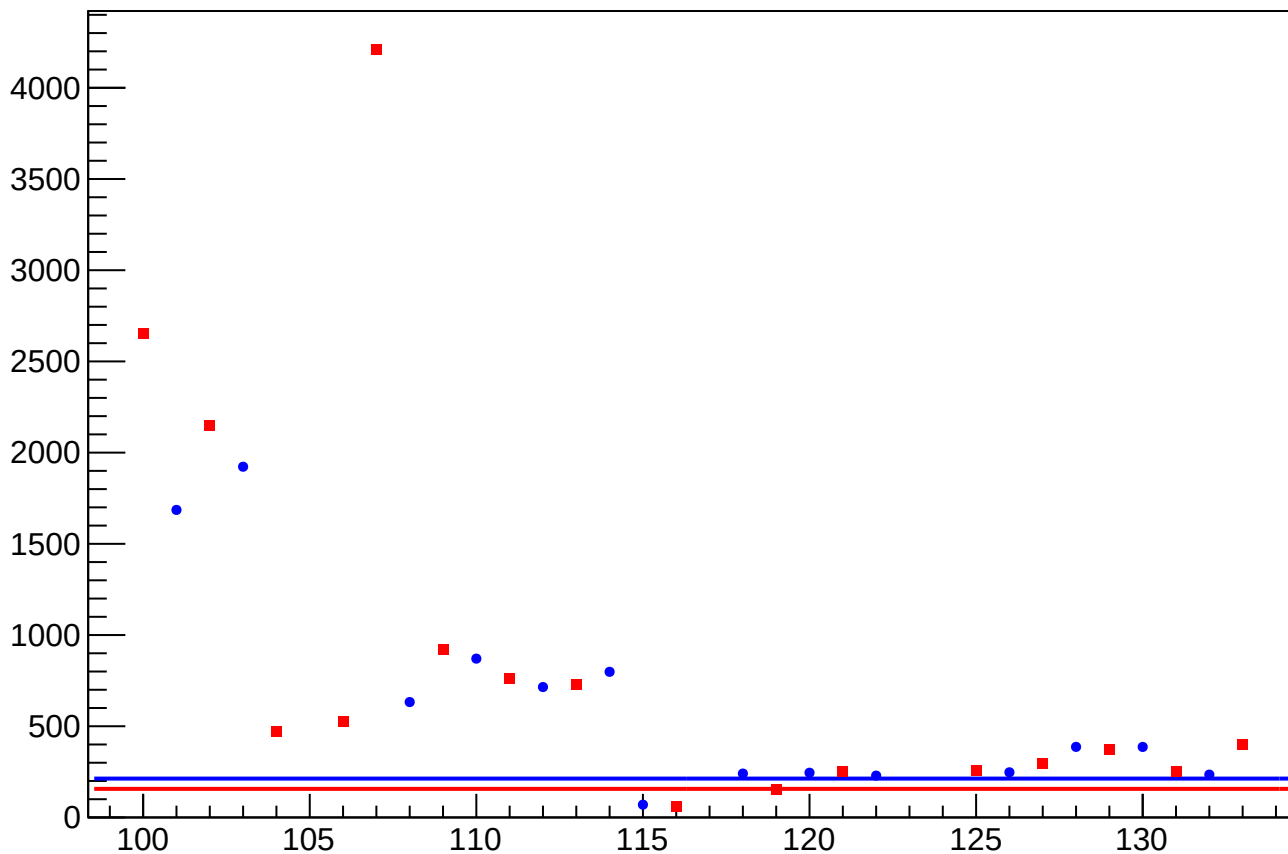
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -57.871+/-72.670  $\chi^2/\text{NDF}$ : 29.5/29

- 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: 213.066+/-0.082  $\chi^2/\text{NDF}$ : 4679134.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 156.729+/-0.066  $\chi^2/\text{NDF}$ : 6100035.6/15

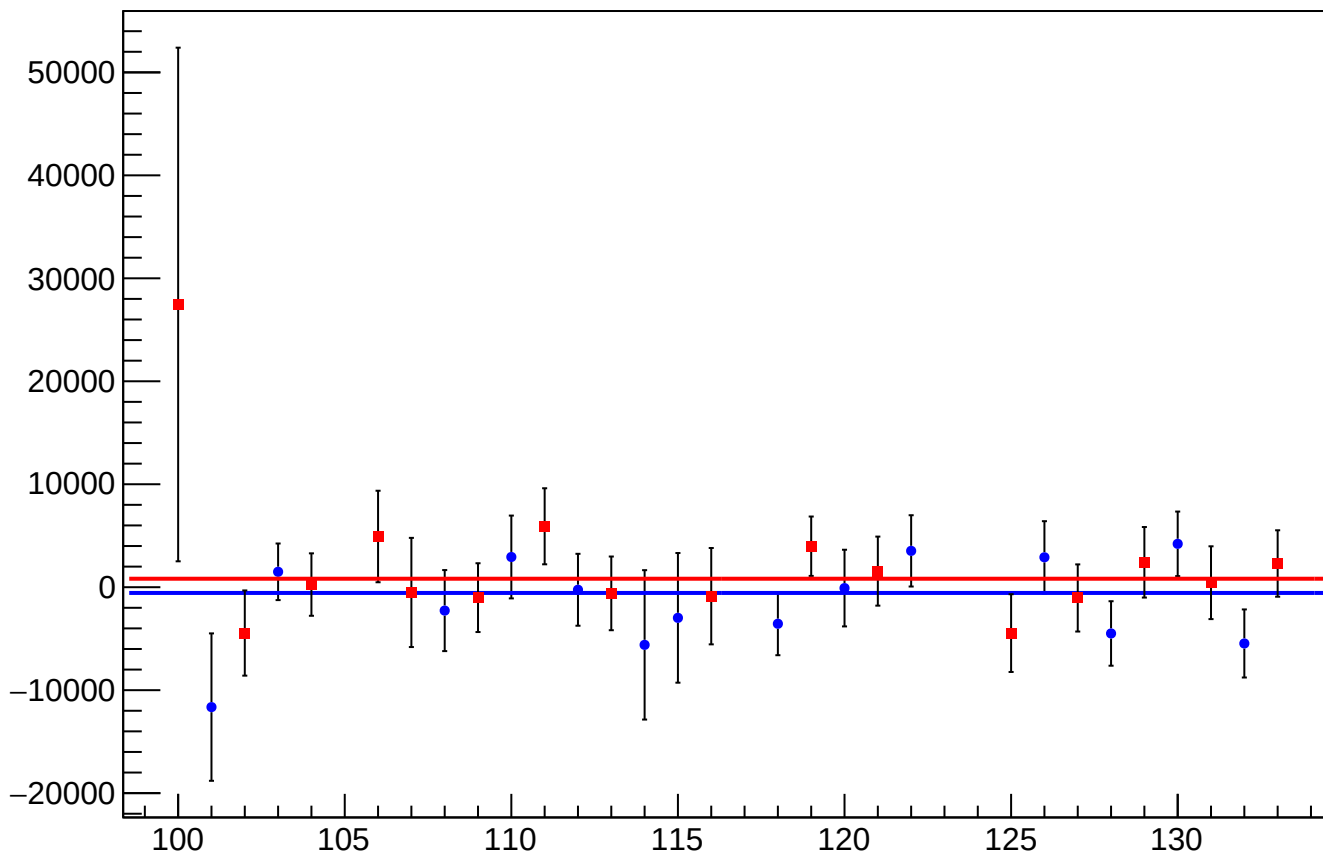
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 178.951+/-0.051  $\chi^2/\text{NDF}$ : 11066284.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: -557.250+/-978.757  $\chi^2$ /NDF: 14.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 823.644+/-921.975  $\chi^2$ /NDF: 10.2/15

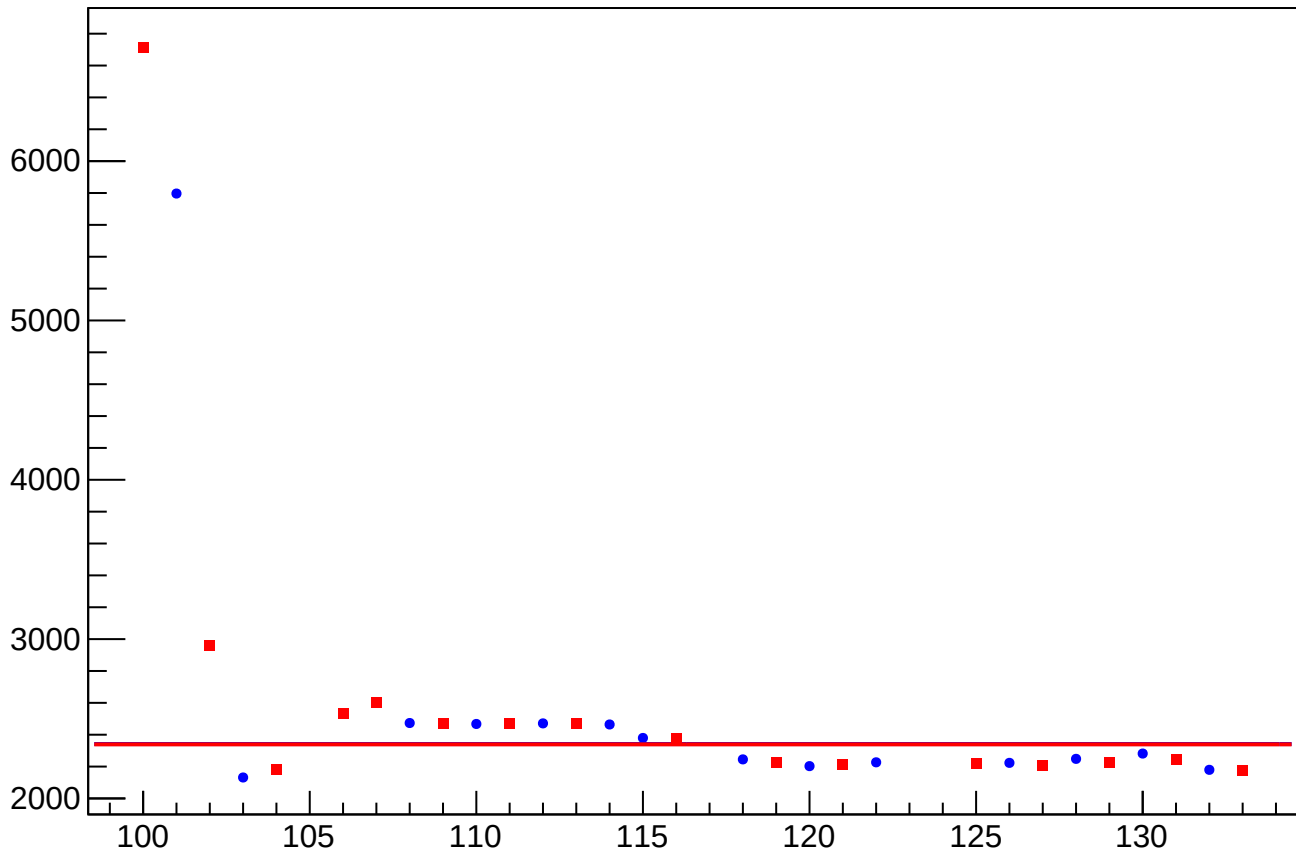
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 174.412+/-671.111  $\chi^2$ /NDF: 25.2/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2341.457+/-0.692  $\chi^2/\text{NDF}$ : 501810.0/13

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

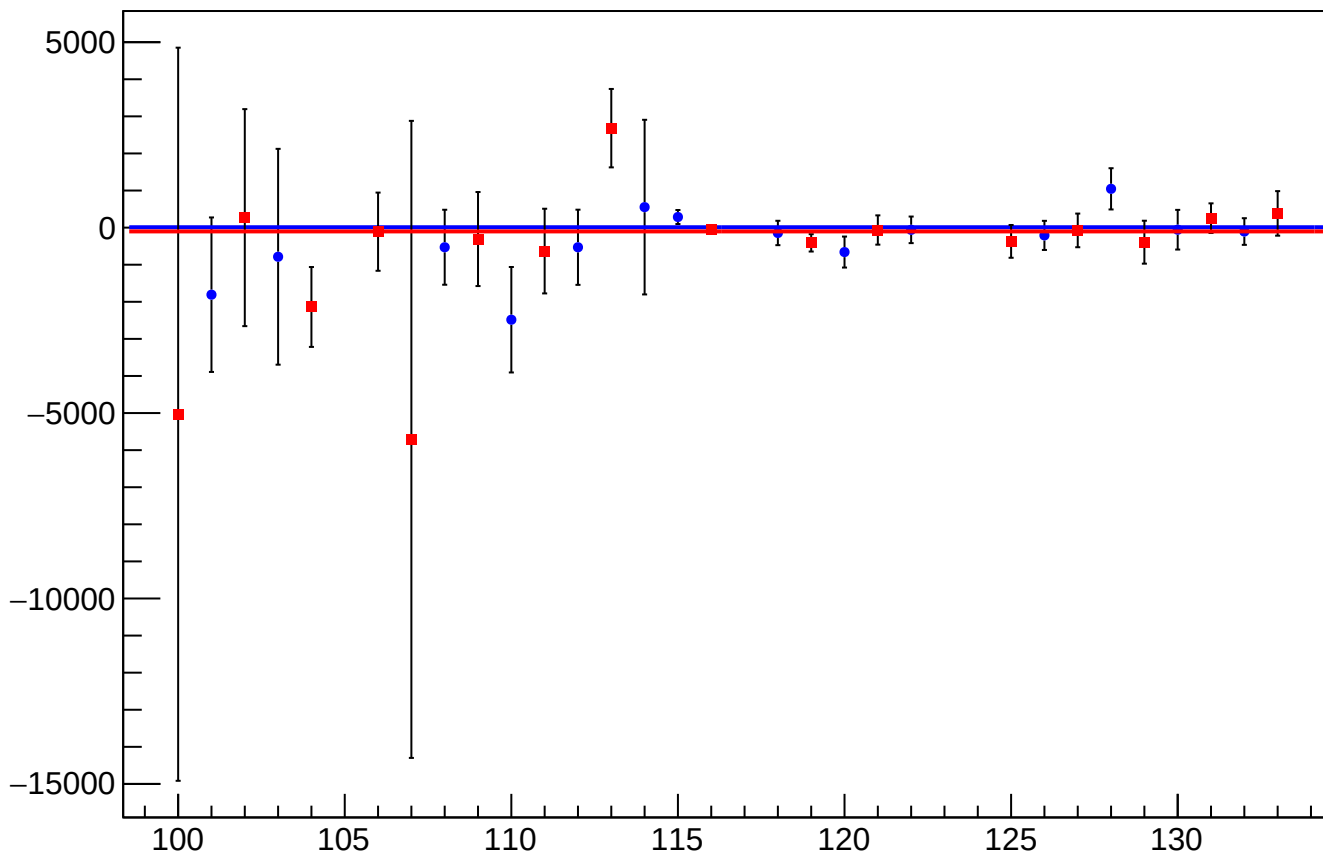
Right Out: 2339.523+/-0.652  $\chi^2/\text{NDF}$ : 148784.9/15

All: 2340.432+/-0.475  $\chi^2/\text{NDF}$ : 650599.1/29

- 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\_cor\_correction\_mean vs Slug



Right In: 10.136+/-115.707  $\chi^2/\text{NDF}$ : 13.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -102.172+/-93.387  $\chi^2/\text{NDF}$ : 15.5/15

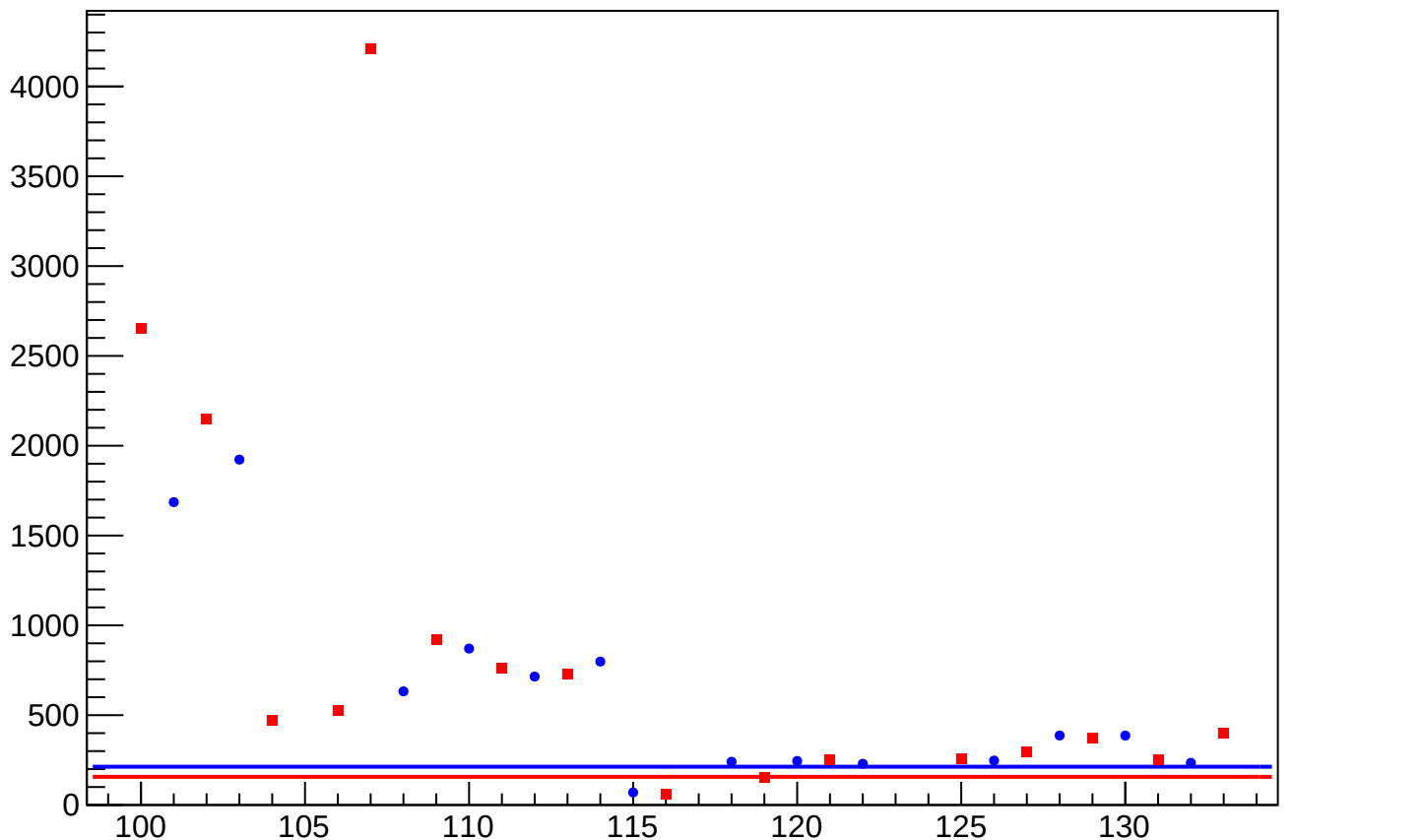
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -57.871+/-72.670  $\chi^2/\text{NDF}$ : 29.5/29

- 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: 213.066+/-0.082  $\chi^2/\text{NDF}$ : 4679134.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 156.729+/-0.066  $\chi^2/\text{NDF}$ : 6100035.6/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

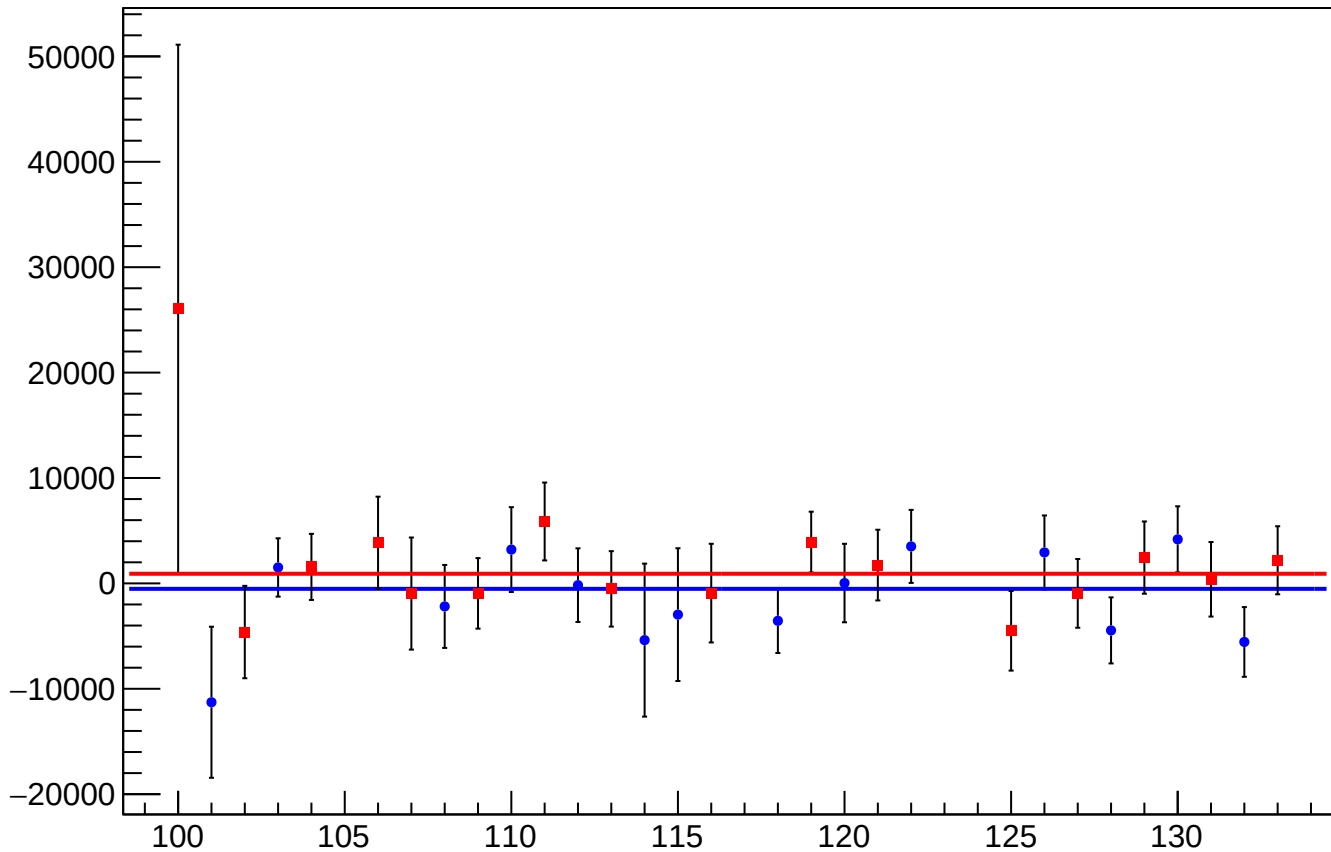
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 178.951+/-0.051  $\chi^2/\text{NDF}$ : 11066284.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In:  $-518.504 \pm 979.914$   $\chi^2/\text{NDF}$ : 13.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $913.132 \pm 926.979$   $\chi^2/\text{NDF}$ : 9.6/15

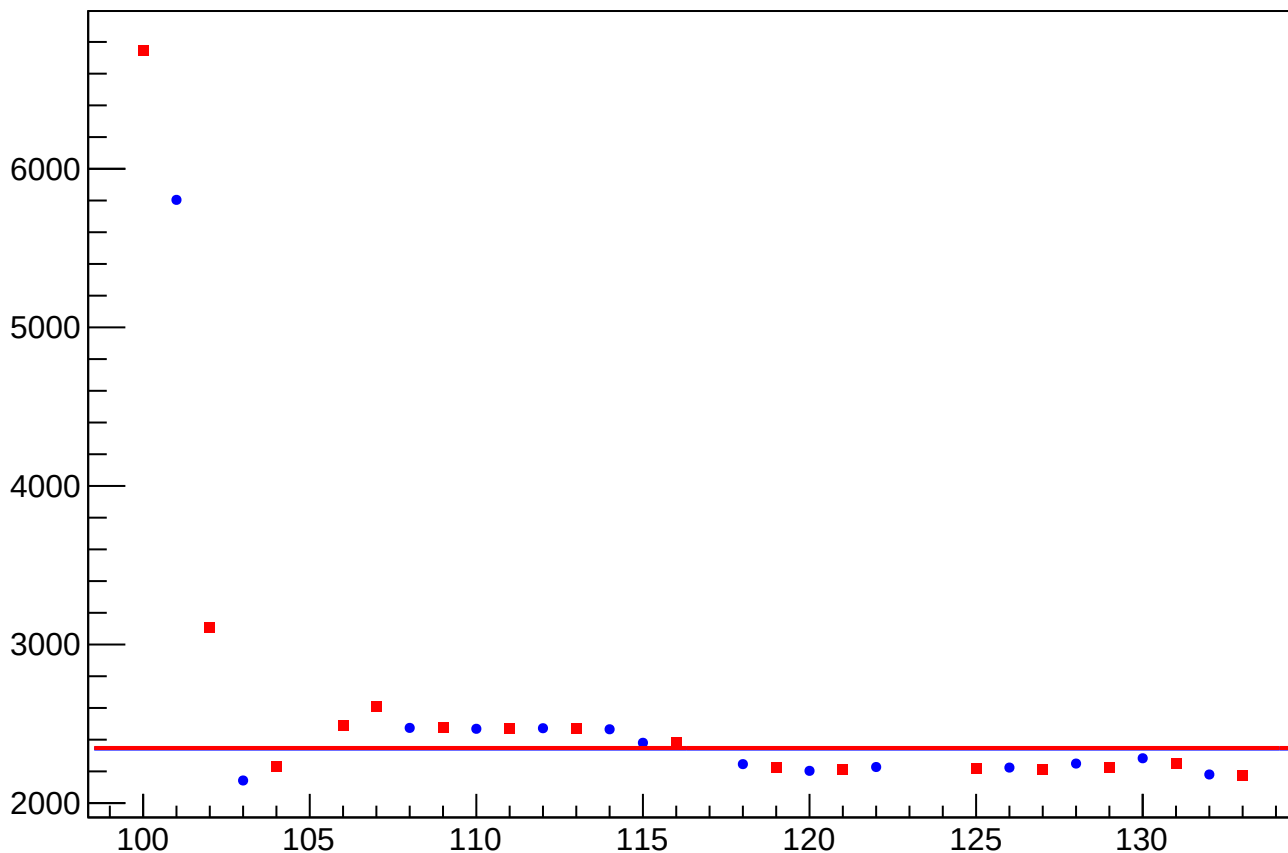
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $237.025 \pm 673.410$   $\chi^2/\text{NDF}$ : 24.6/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2343.941+/-0.693  $\chi^2/\text{NDF}$ : 501171.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2347.660+/-0.655  $\chi^2/\text{NDF}$ : 161997.7/15

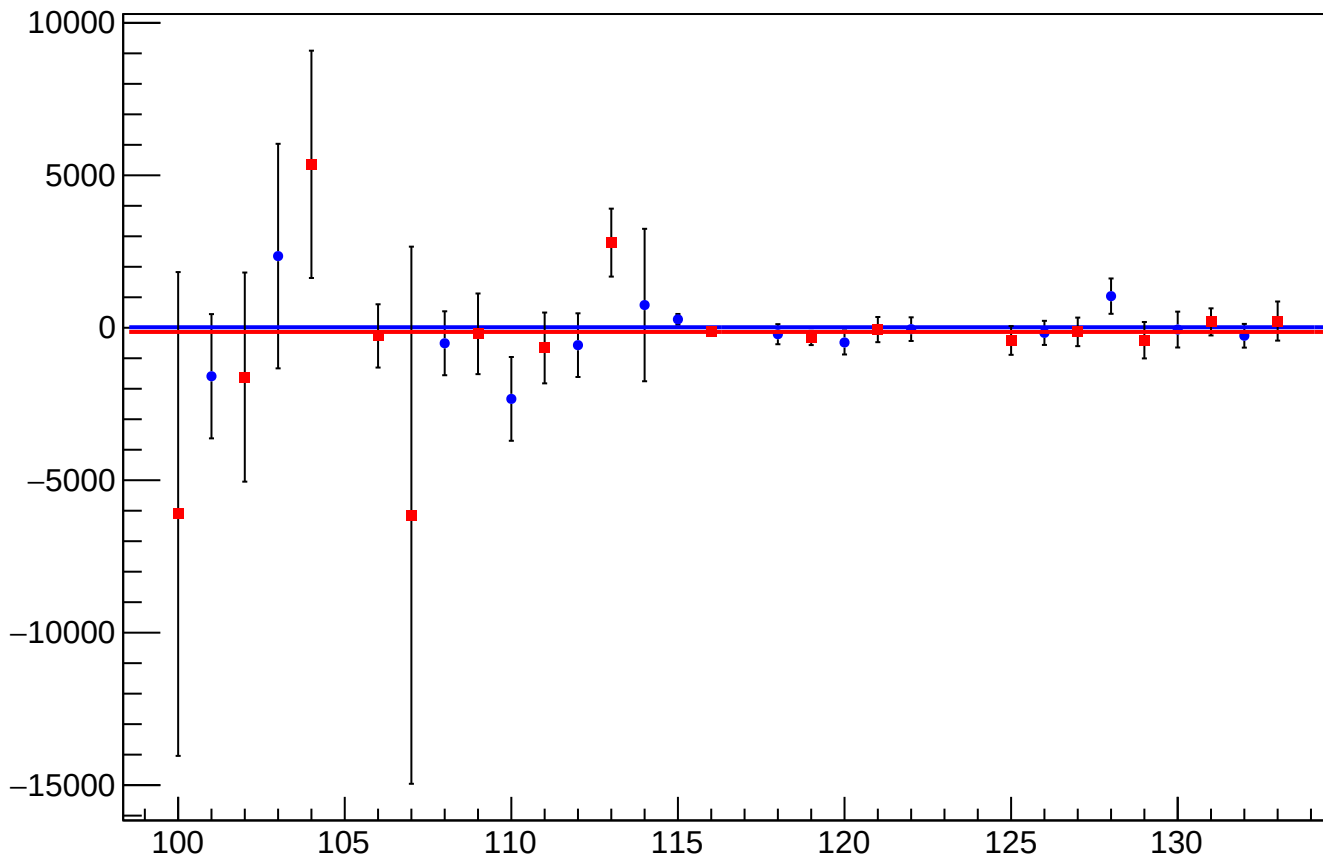
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2345.904+/-0.476  $\chi^2/\text{NDF}$ : 663183.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_correction\_mean vs Slug



Right In: 17.210+/-114.655  $\chi^2/\text{NDF}$ : 12.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -136.824+/-97.553  $\chi^2/\text{NDF}$ : 12.7/15

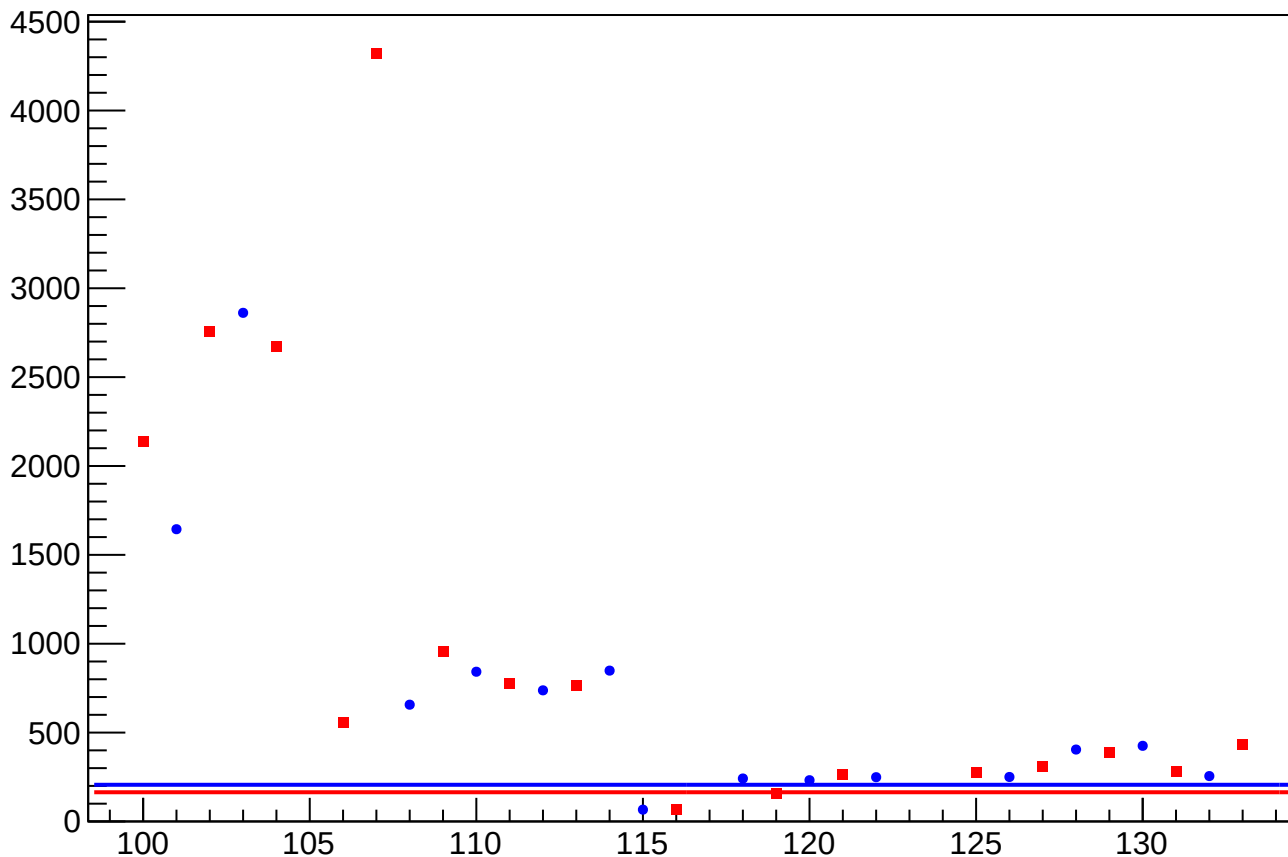
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -72.140+/-74.299  $\chi^2/\text{NDF}$ : 26.5/29

- 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: 206.348+/-0.081  $\chi^2/\text{NDF}$ : 5361862.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 164.294+/-0.069  $\chi^2/\text{NDF}$ : 7065541.4/15

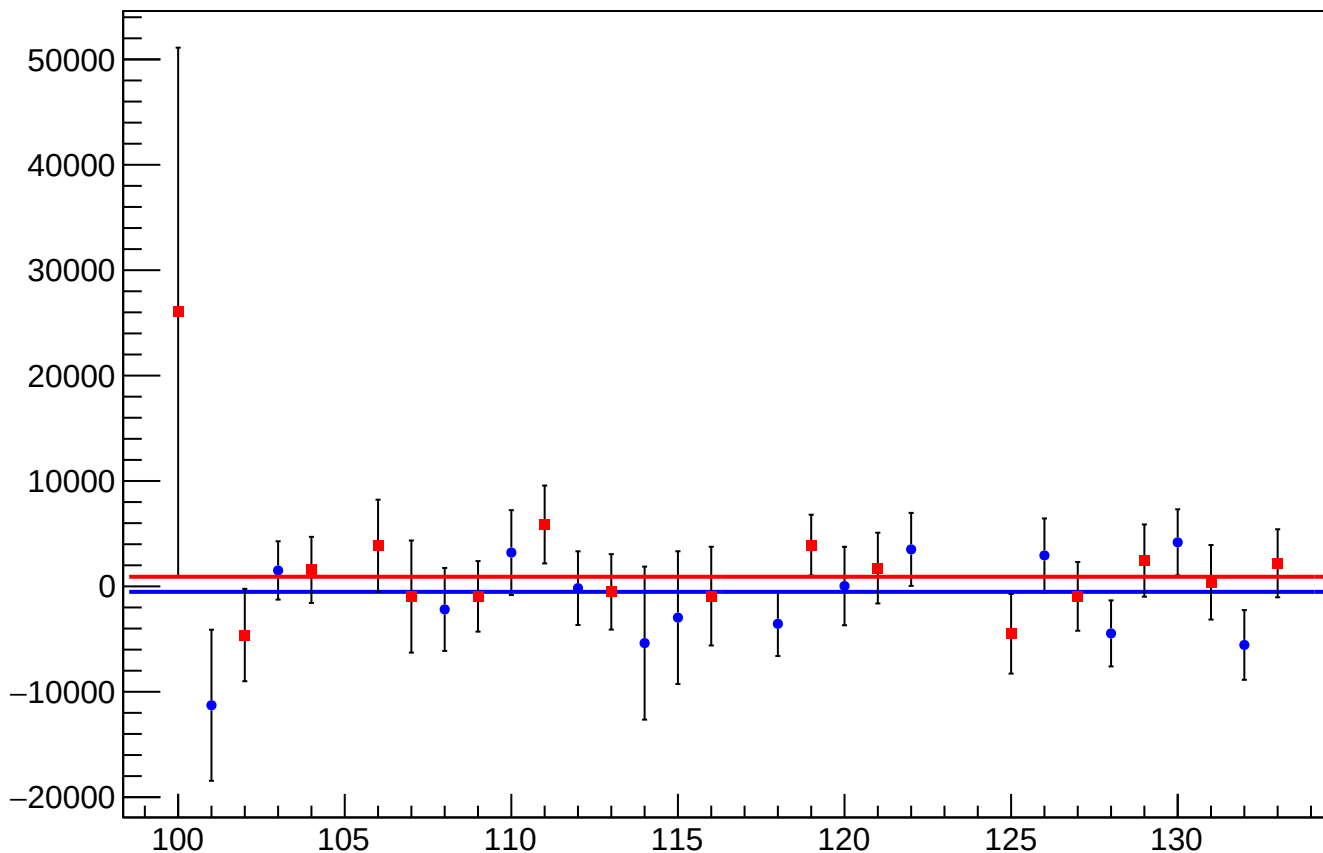
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 181.954+/-0.053  $\chi^2/\text{NDF}$ : 12583481.0/29

- 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: -518.507+/-979.914  $\chi^2$ /NDF: 13.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 913.135+/-926.979  $\chi^2$ /NDF: 9.6/15

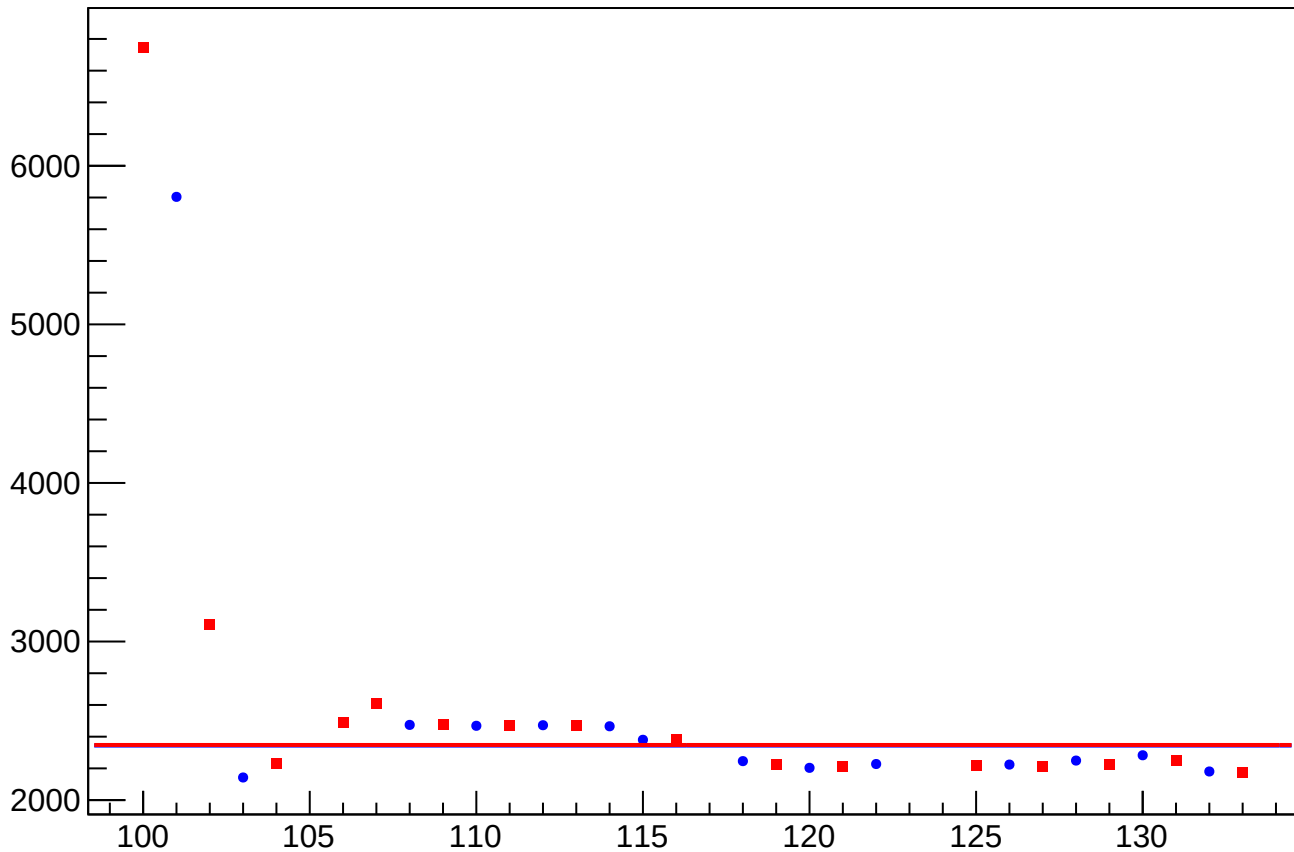
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 237.025+/-673.410  $\chi^2$ /NDF: 24.6/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2343.941+/-0.693  $\chi^2/\text{NDF}$ : 501171.0/13

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

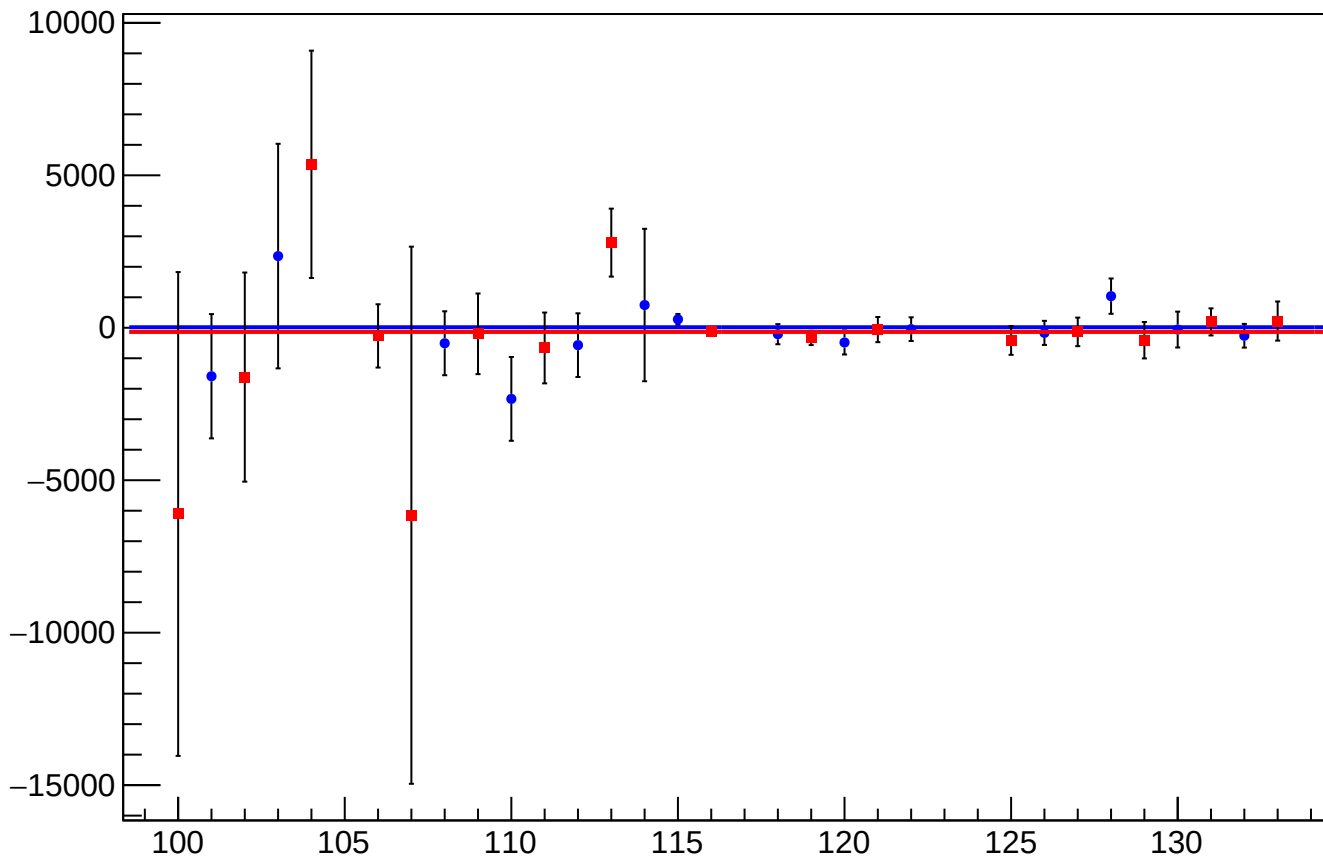
Right Out: 2347.660+/-0.655  $\chi^2/\text{NDF}$ : 161997.6/15

All: 2345.904+/-0.476  $\chi^2/\text{NDF}$ : 663183.9/29

- 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: 17.210+/-114.653  $\chi^2/\text{NDF}$ : 12.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -136.823+/-97.552  $\chi^2/\text{NDF}$ : 12.7/15

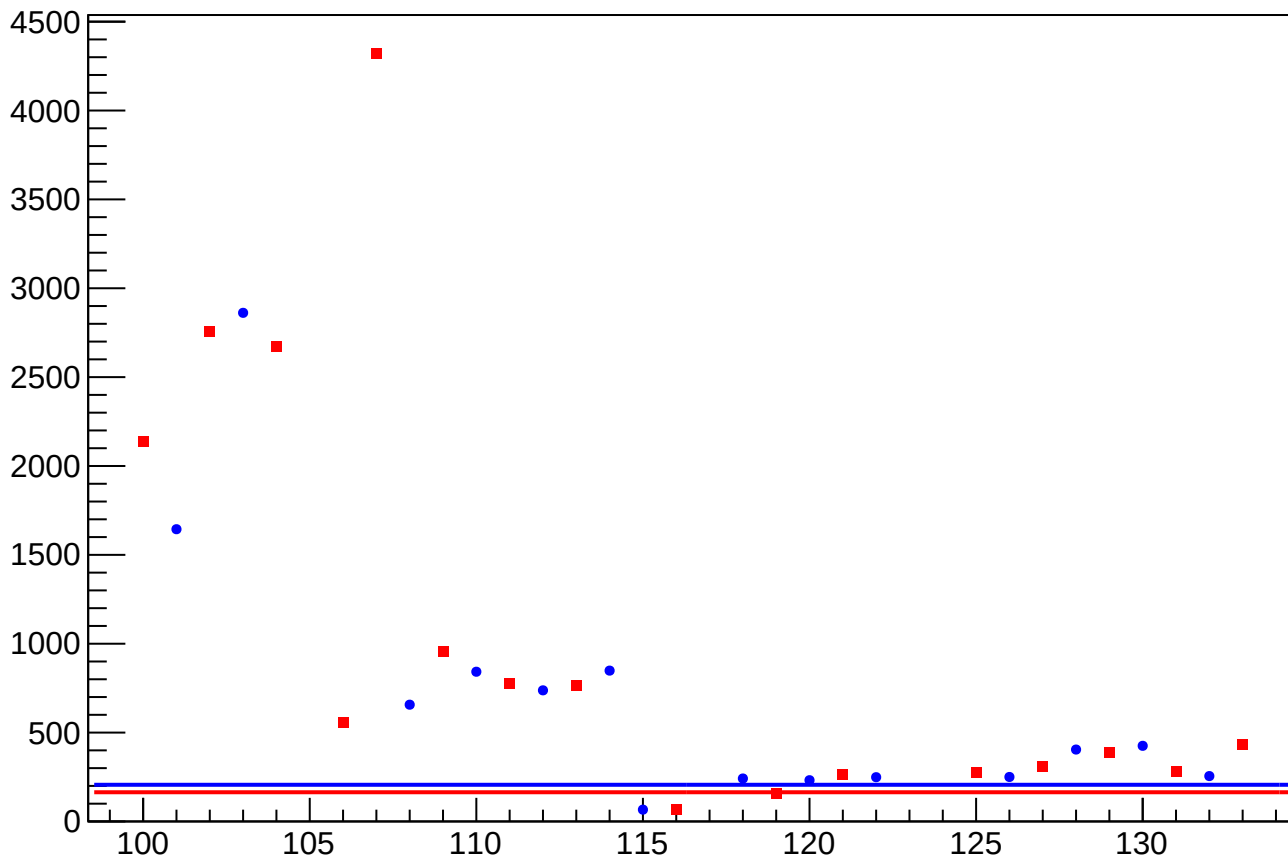
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -72.140+/-74.298  $\chi^2/\text{NDF}$ : 26.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 206.344+/-0.081  $\chi^2/\text{NDF}$ : 5361923.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 164.291+/-0.069  $\chi^2/\text{NDF}$ : 7065603.7/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

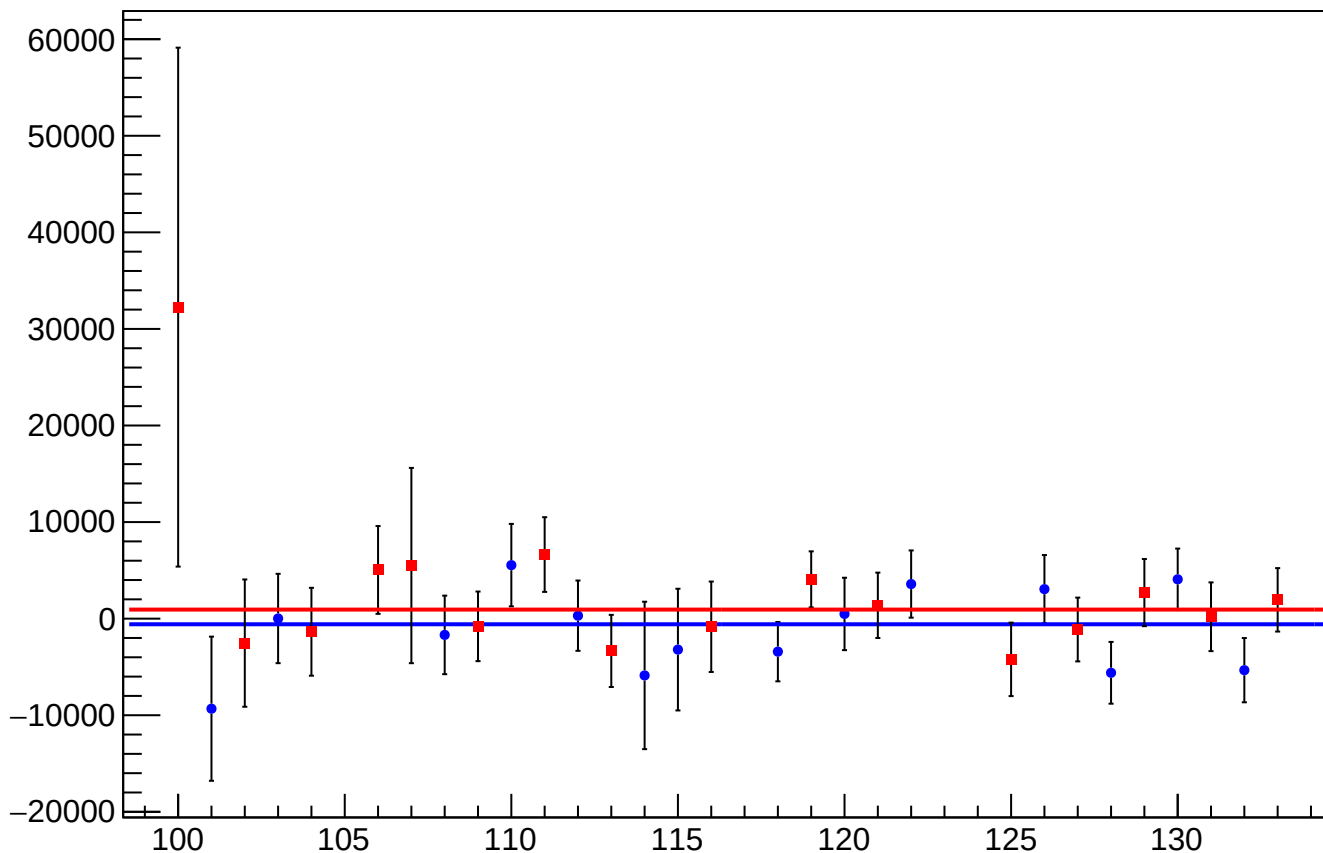
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 181.950+/-0.053  $\chi^2/\text{NDF}$ : 12583600.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug



Right In: -580.778+/-1039.948  $\chi^2/\text{NDF}$ : 14.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 939.326+/-993.330  $\chi^2/\text{NDF}$ : 10.6/15

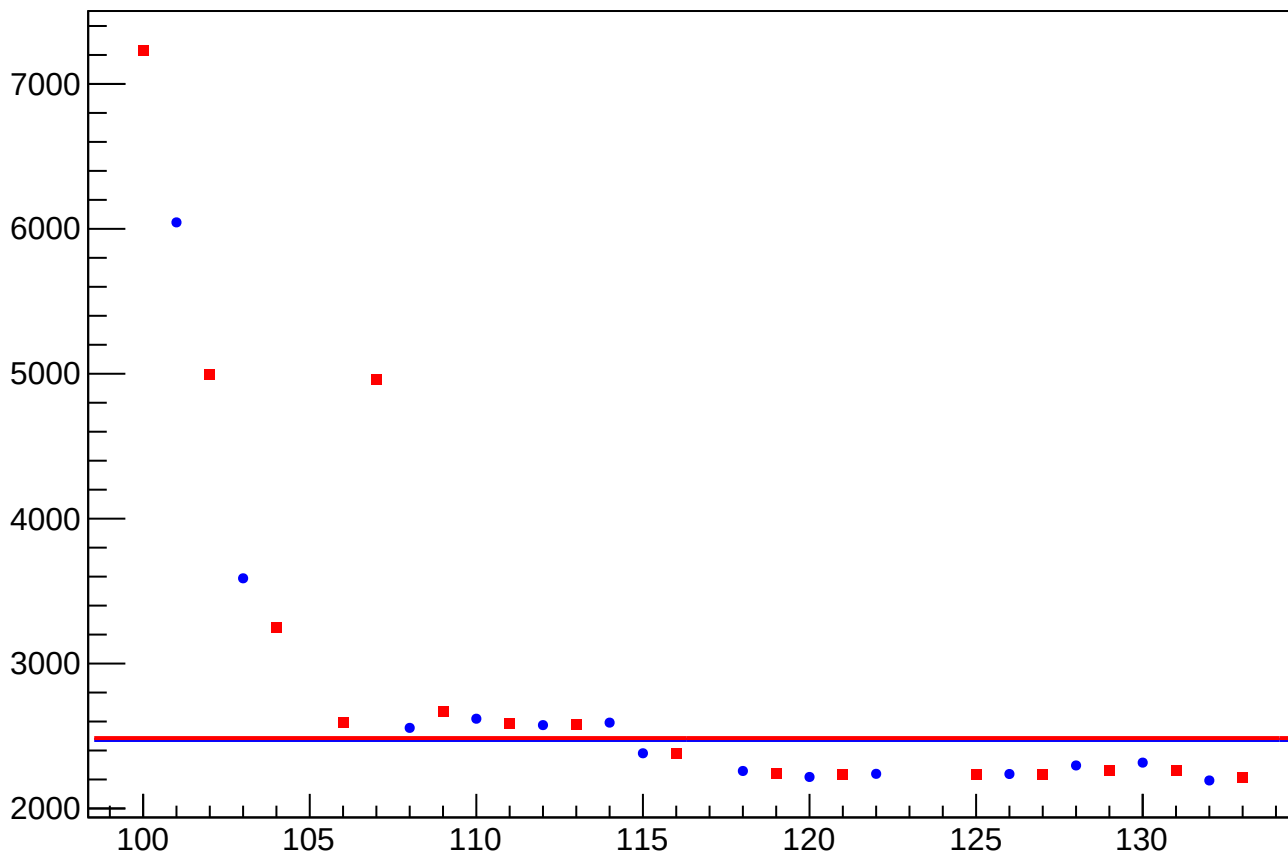
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 214.108+/-718.306  $\chi^2/\text{NDF}$ : 26.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug



Right In: 2472.703+/-0.735  $\chi^2/\text{NDF}$ : 642022.9/13

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

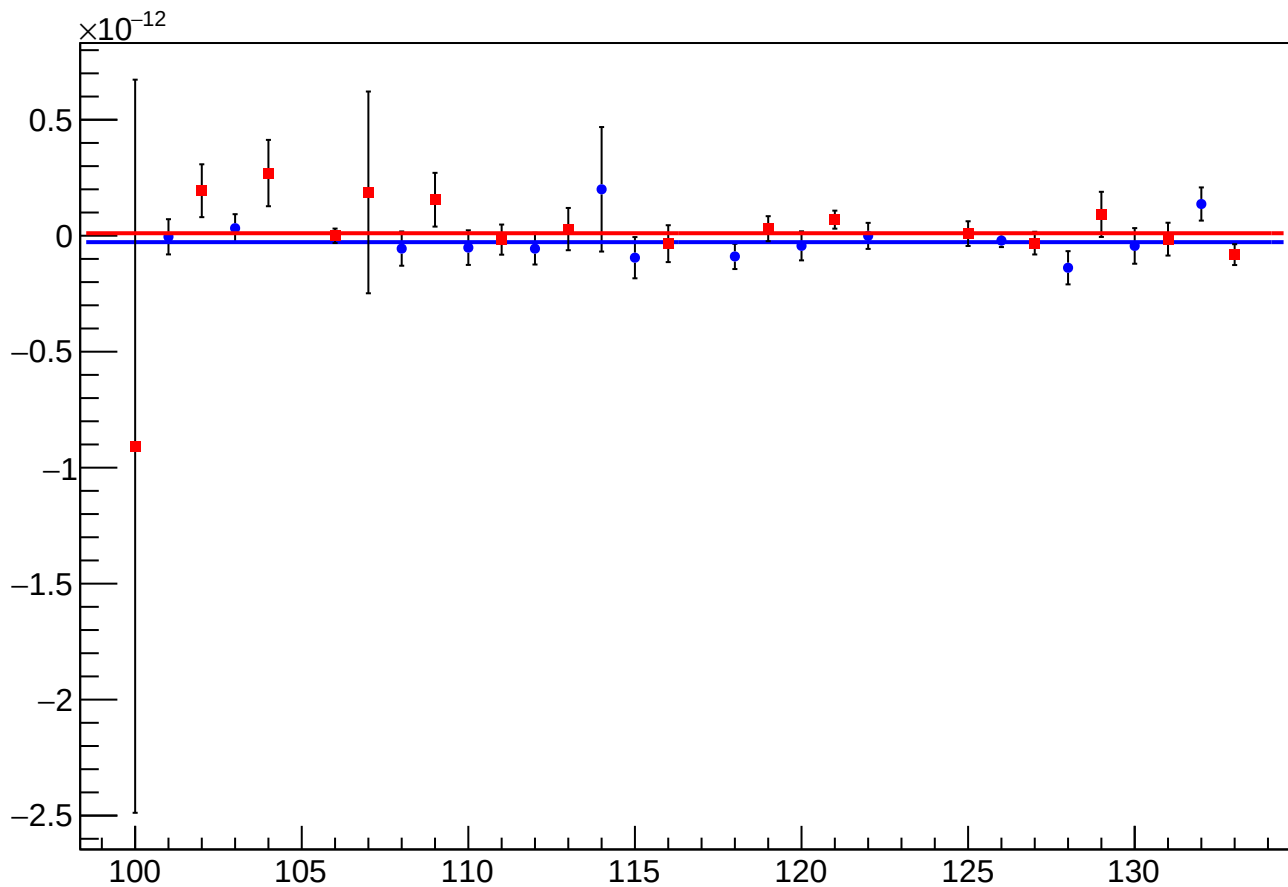
Right Out: 2485.753+/-0.702  $\chi^2/\text{NDF}$ : 614246.4/15

All: 2479.527+/-0.508  $\chi^2/\text{NDF}$ : 1256434.0/29

- 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\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.8/15

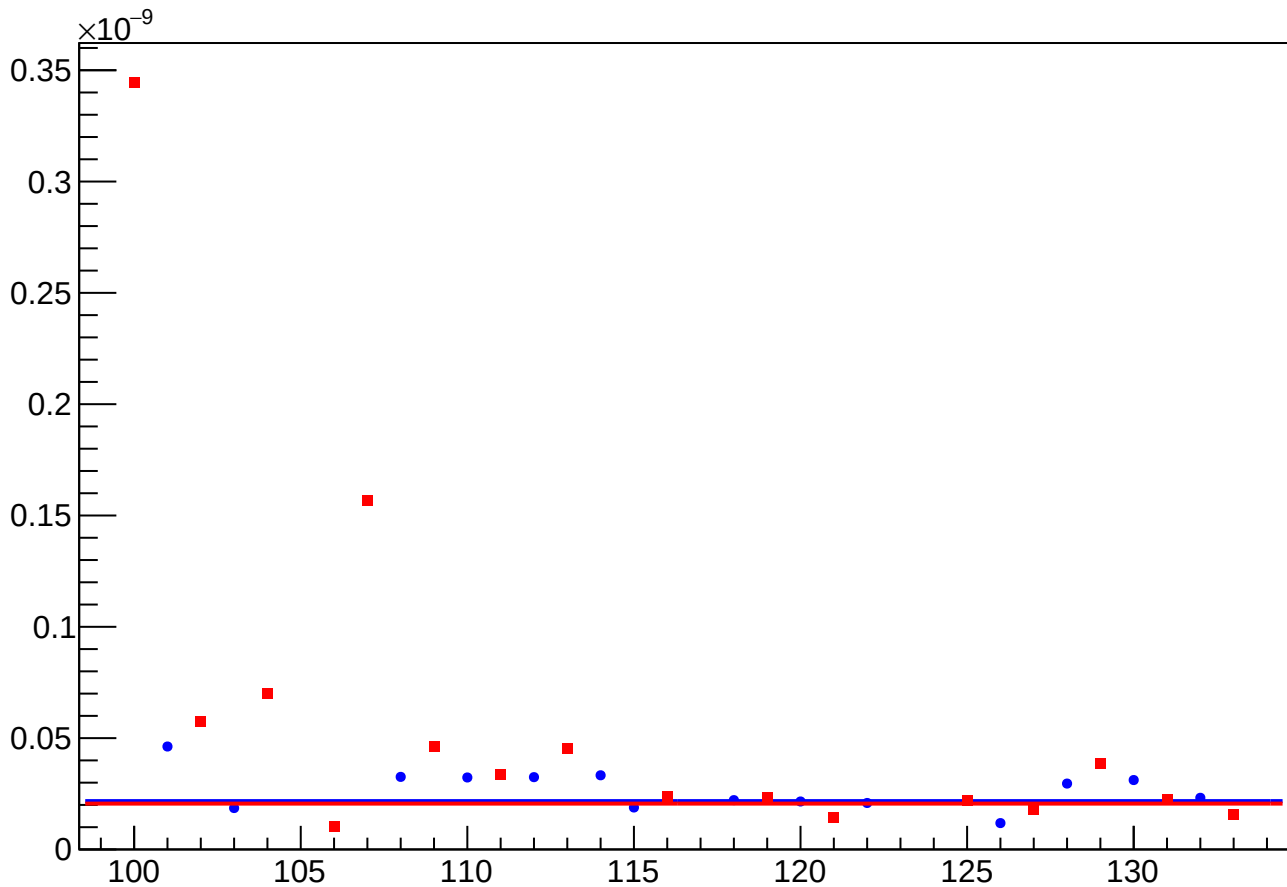
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 32.0/29

- 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+/-0.000  $\chi^2/\text{NDF}$ : 659010.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1429566.4/15

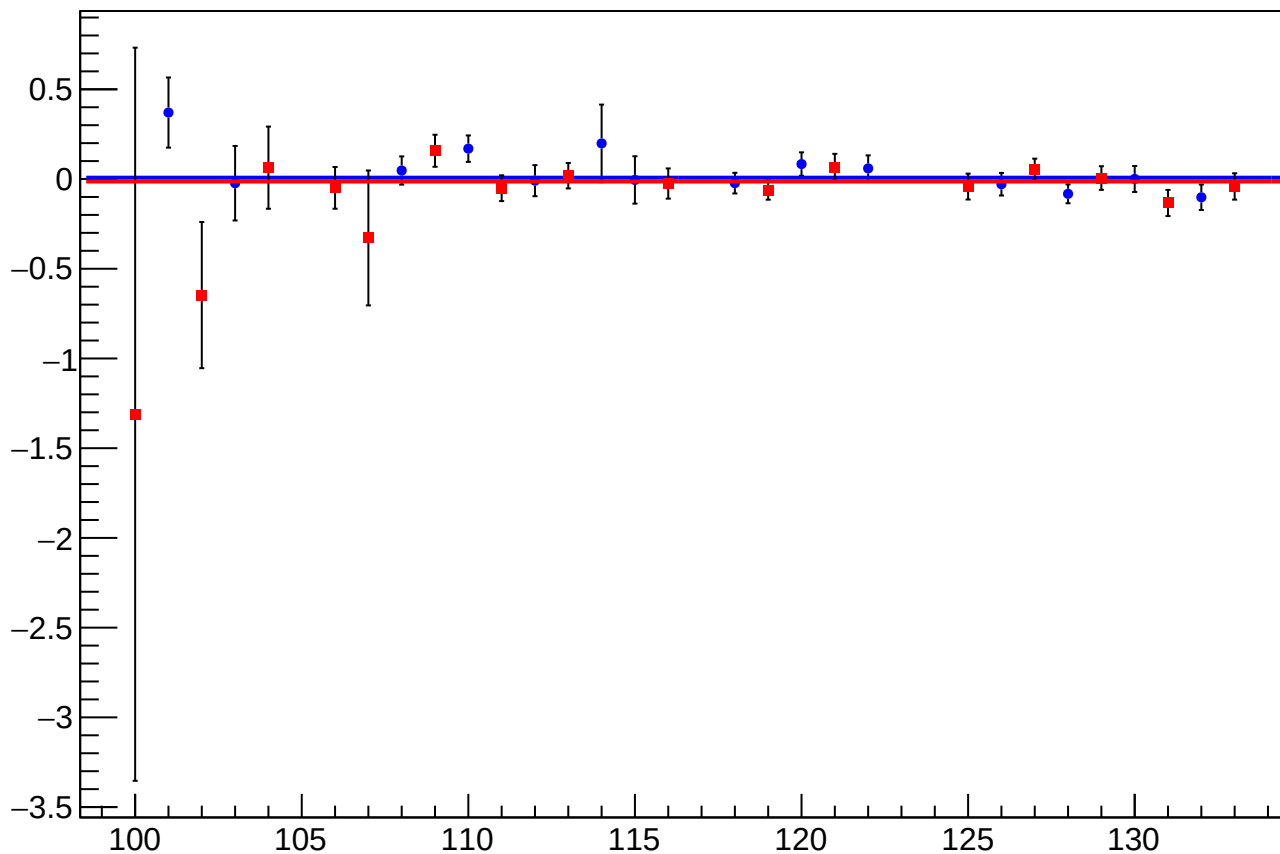
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2093812.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.007 $\pm$ 0.021  $\chi^2$ /NDF: 17.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.014 $\pm$ 0.021  $\chi^2$ /NDF: 14.2/15

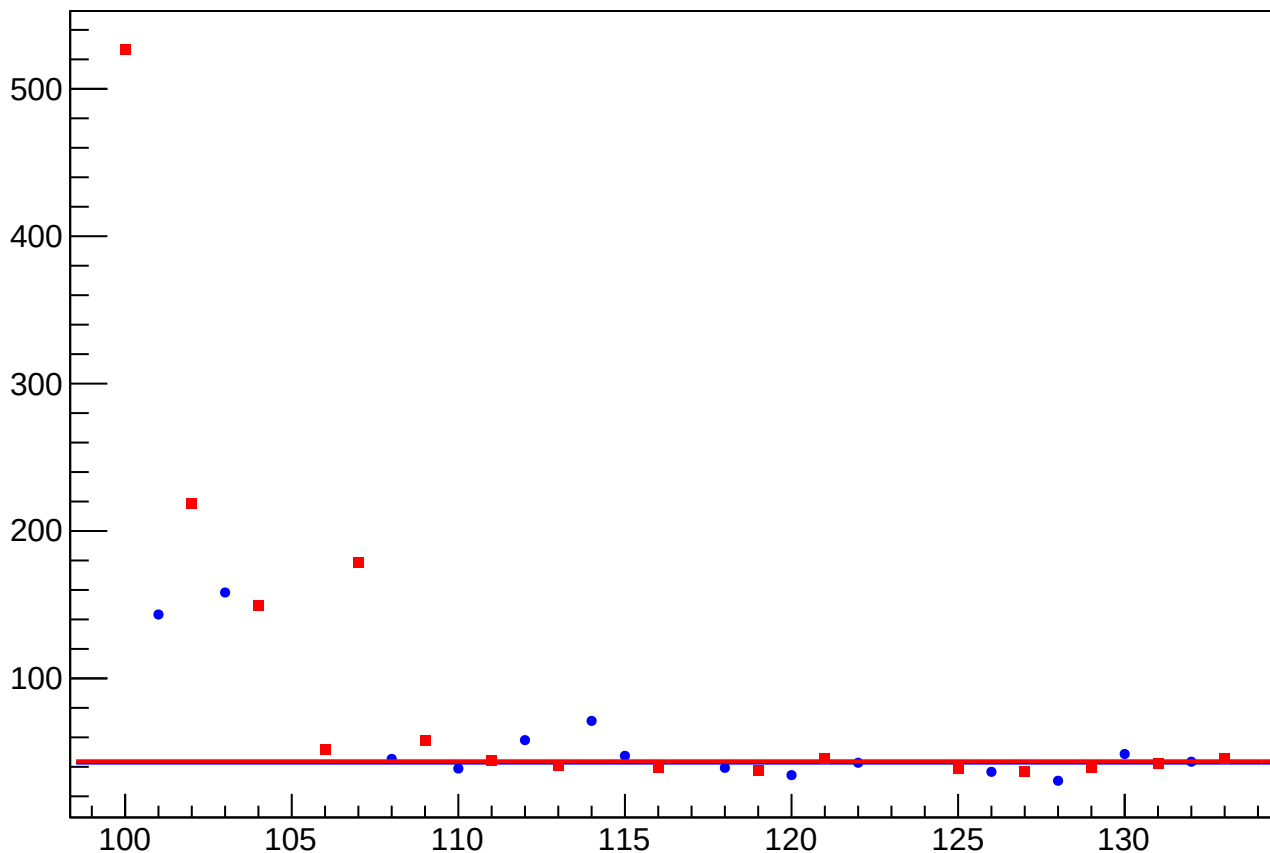
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.015  $\chi^2$ /NDF: 31.9/29

- 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: 42.865+/-0.015  $\chi^2/\text{NDF}$ : 1437553.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 43.764+/-0.015  $\chi^2/\text{NDF}$ : 1309066.7/15

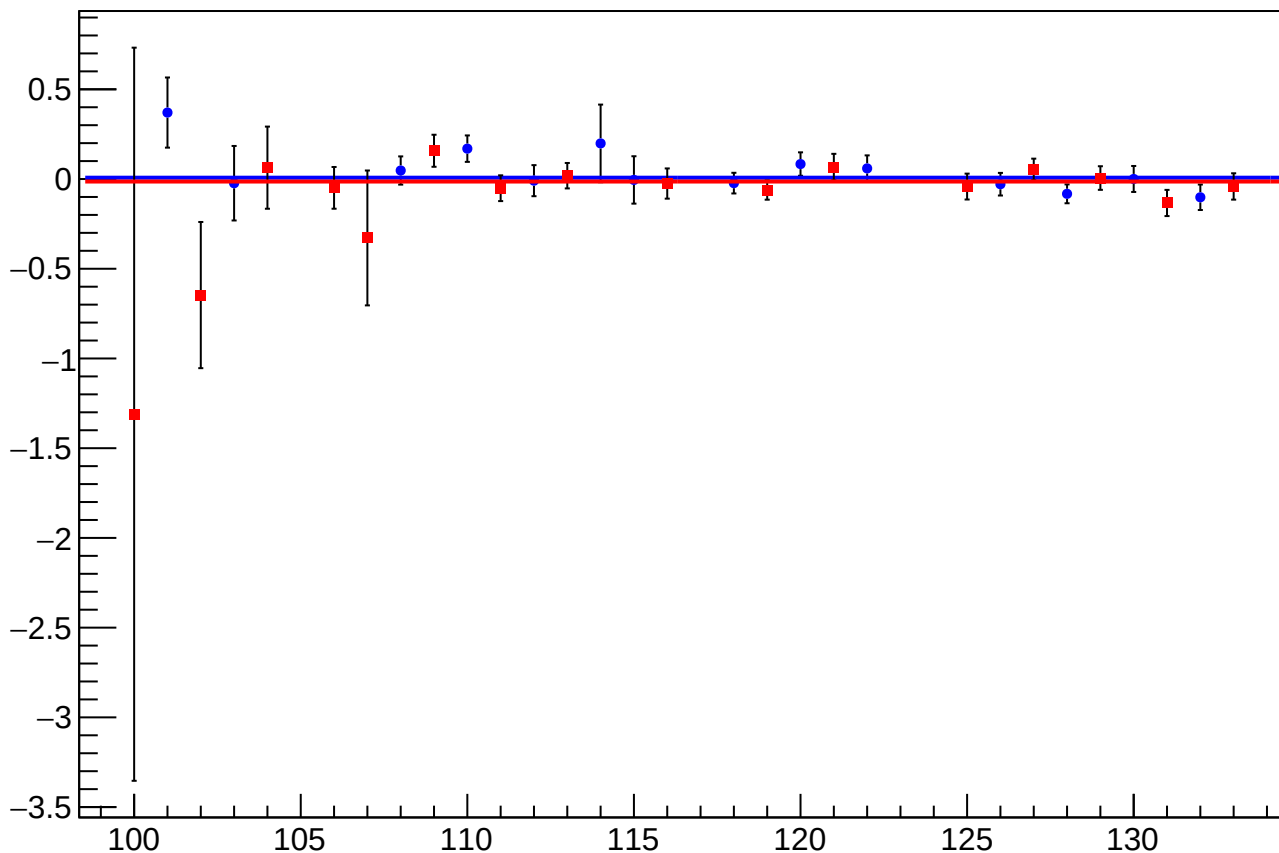
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.317+/-0.010  $\chi^2/\text{NDF}$ : 2748523.7/29

- 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: 0.007 $\pm$ 0.021  $\chi^2$ /NDF: 17.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.014 $\pm$ 0.021  $\chi^2$ /NDF: 14.2/15

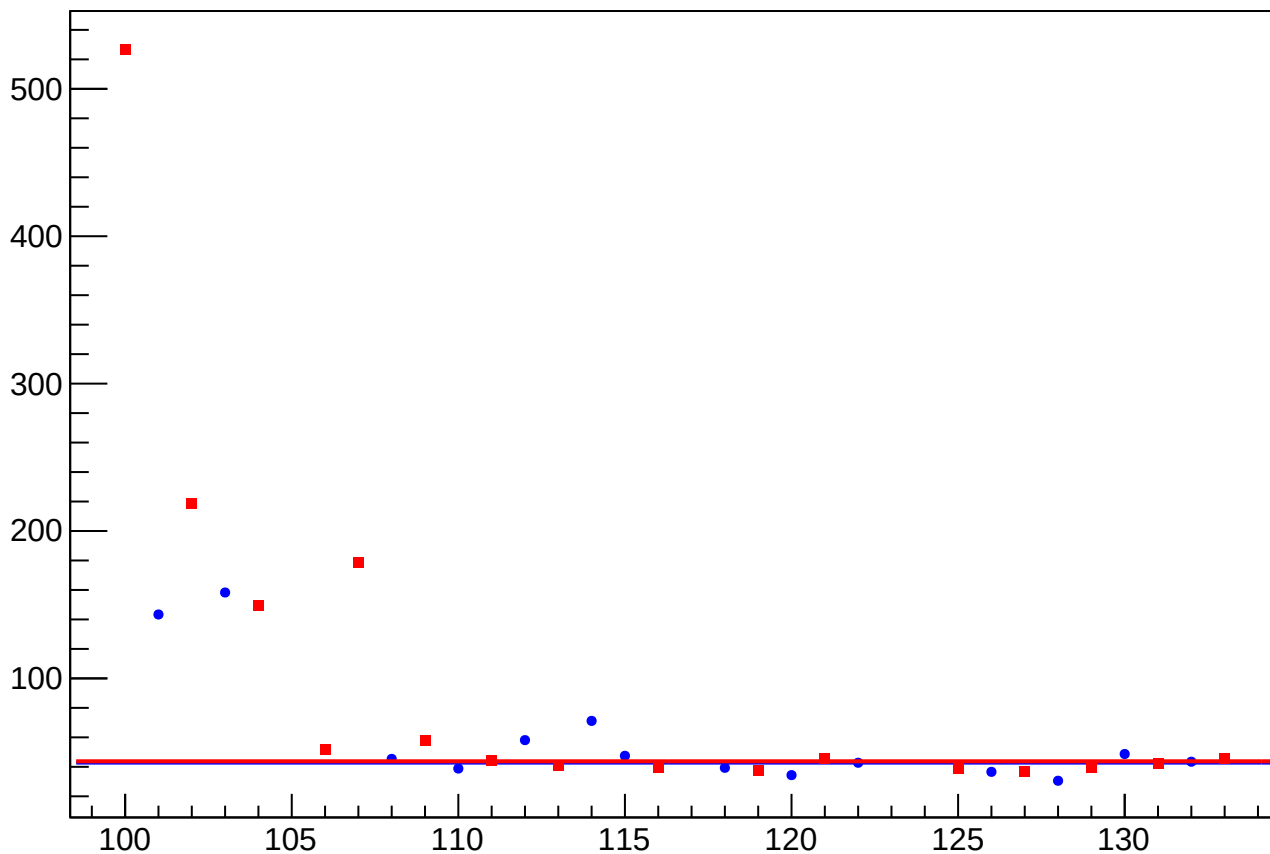
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.015  $\chi^2$ /NDF: 31.9/29

- 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: 42.865+/-0.015  $\chi^2/\text{NDF}$ : 1437553.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 43.764+/-0.015  $\chi^2/\text{NDF}$ : 1309066.7/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

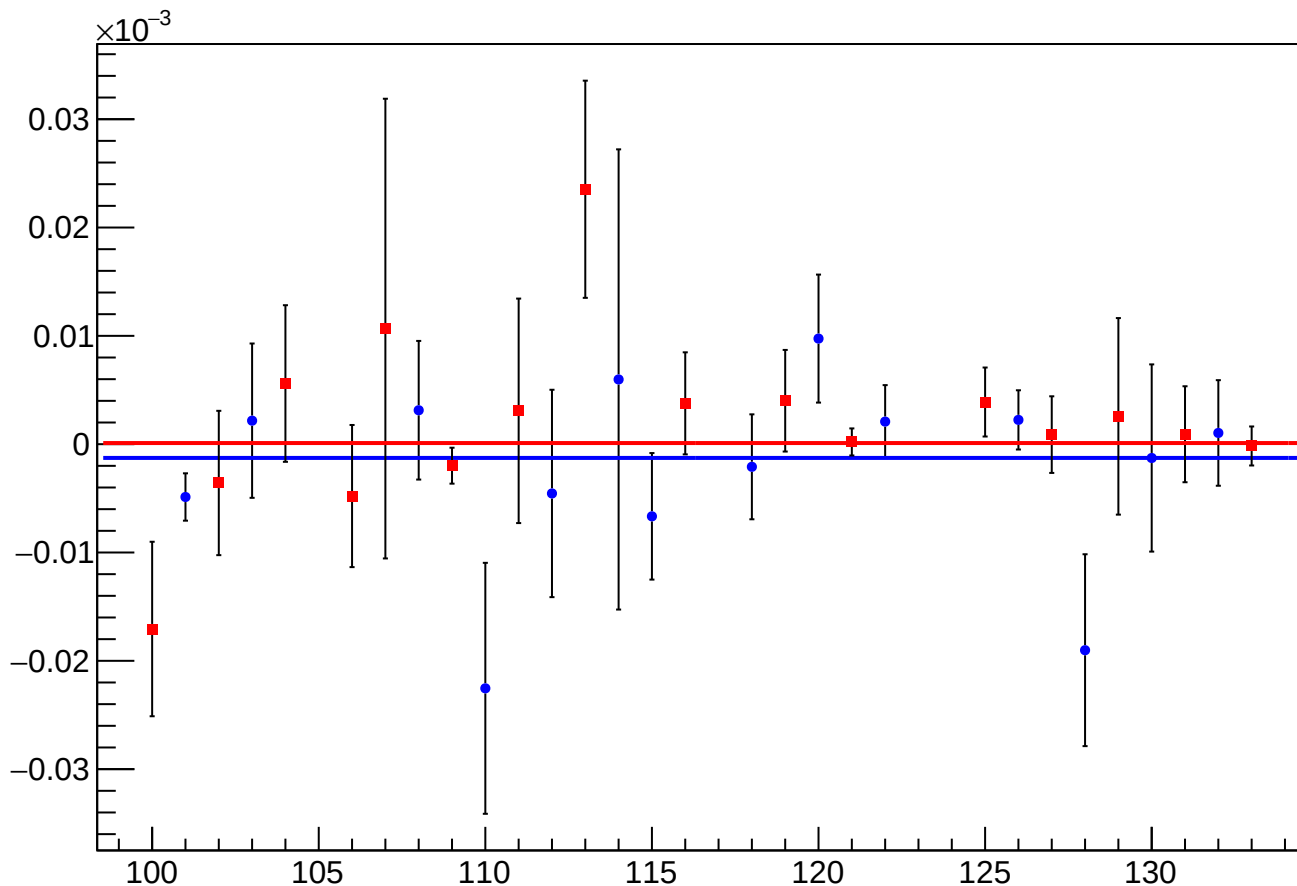
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.317+/-0.010  $\chi^2/\text{NDF}$ : 2748523.7/29

- 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+/-0.000  $\chi^2/\text{NDF}$ : 18.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.3/15

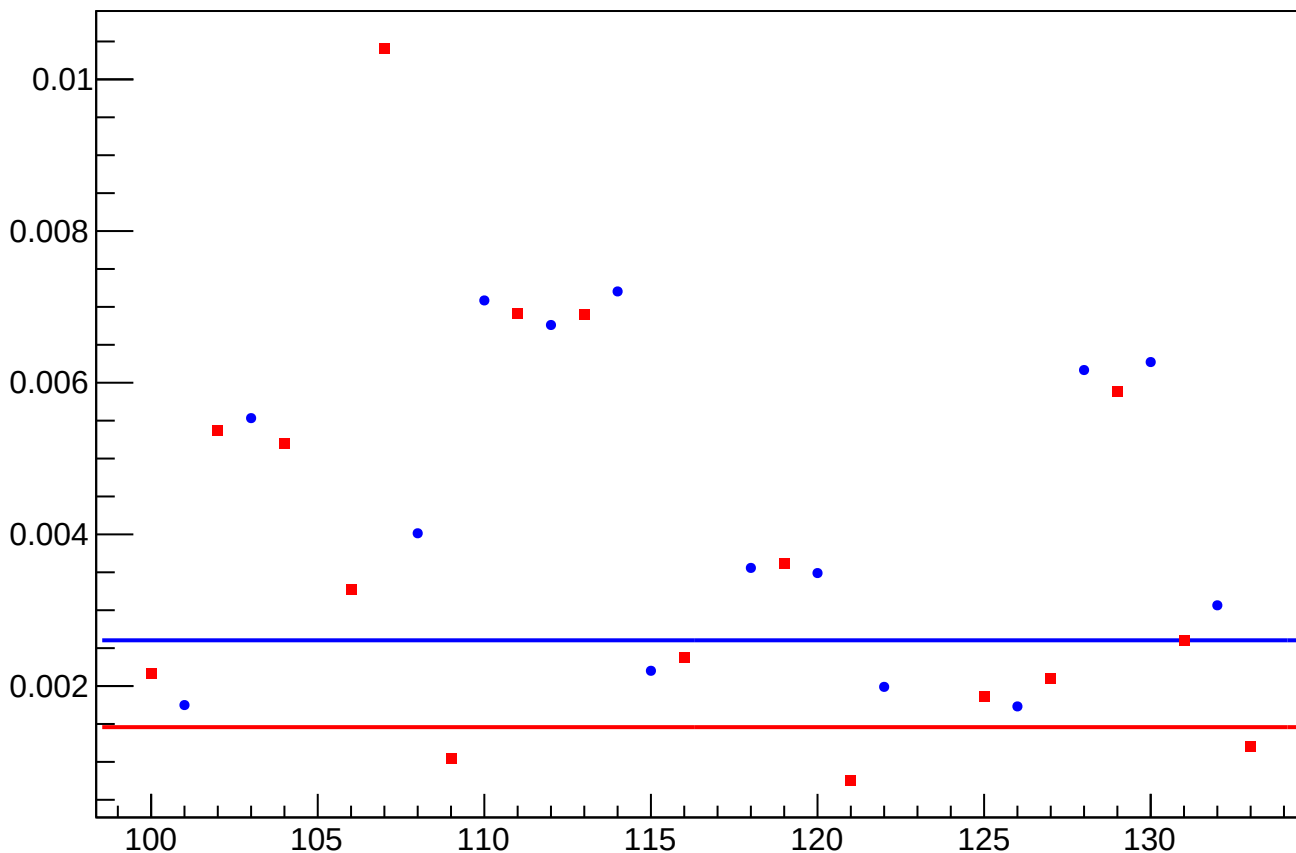
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 35.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2616045.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4905197.3/15

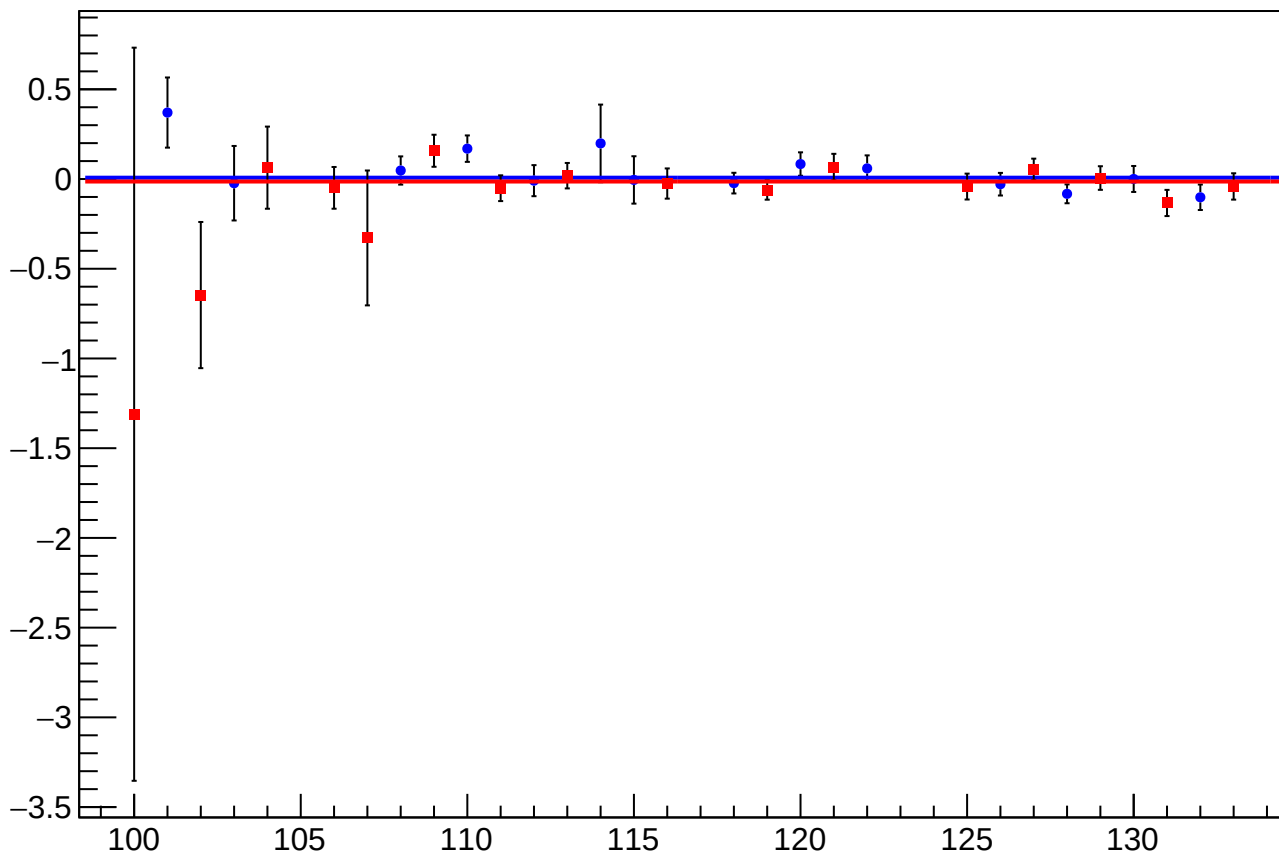
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 8784282.8/29

- 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: 0.007 $\pm$ 0.021  $\chi^2$ /NDF: 17.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.014 $\pm$ 0.021  $\chi^2$ /NDF: 14.2/15

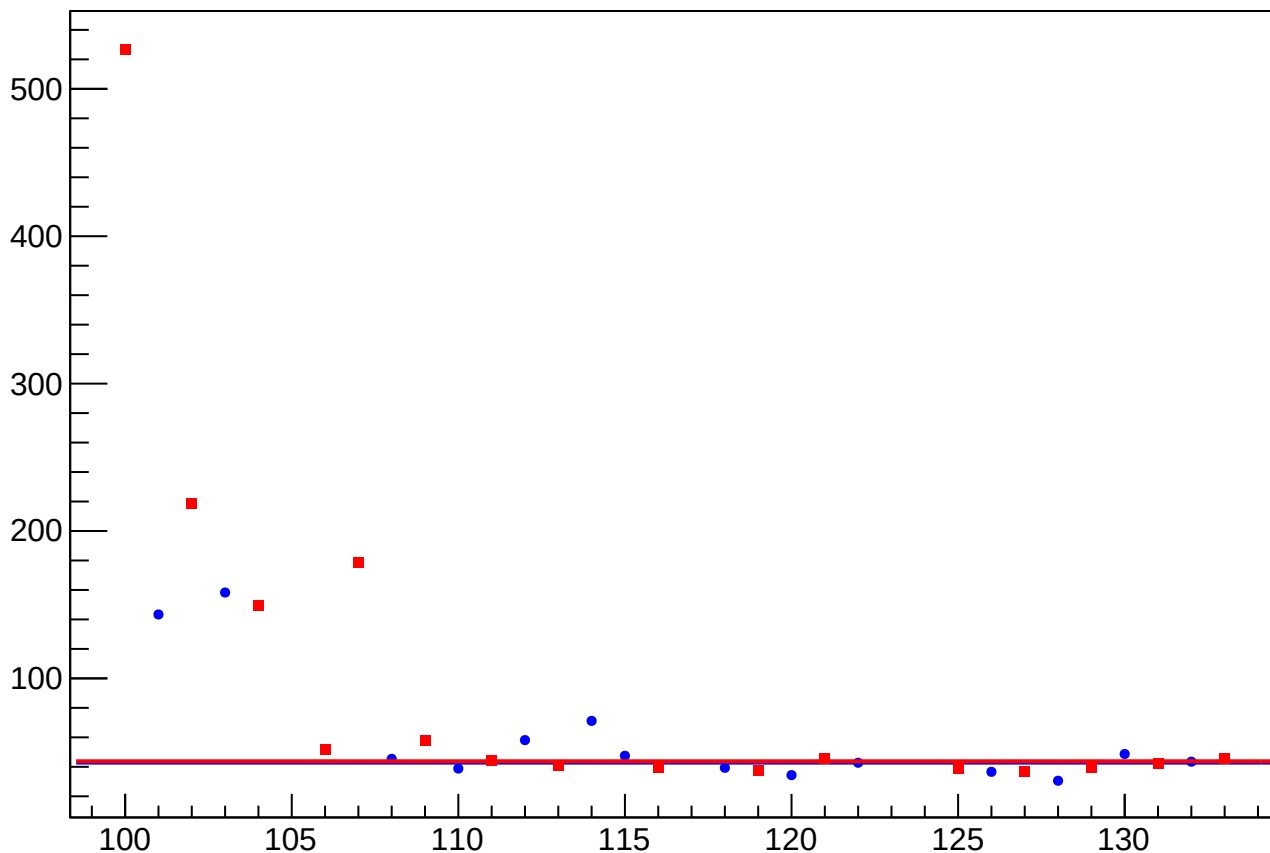
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.015  $\chi^2$ /NDF: 31.9/29

- 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: 42.862+/-0.015  $\chi^2/\text{NDF}$ : 1437793.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 43.765+/-0.015  $\chi^2/\text{NDF}$ : 1309036.8/15

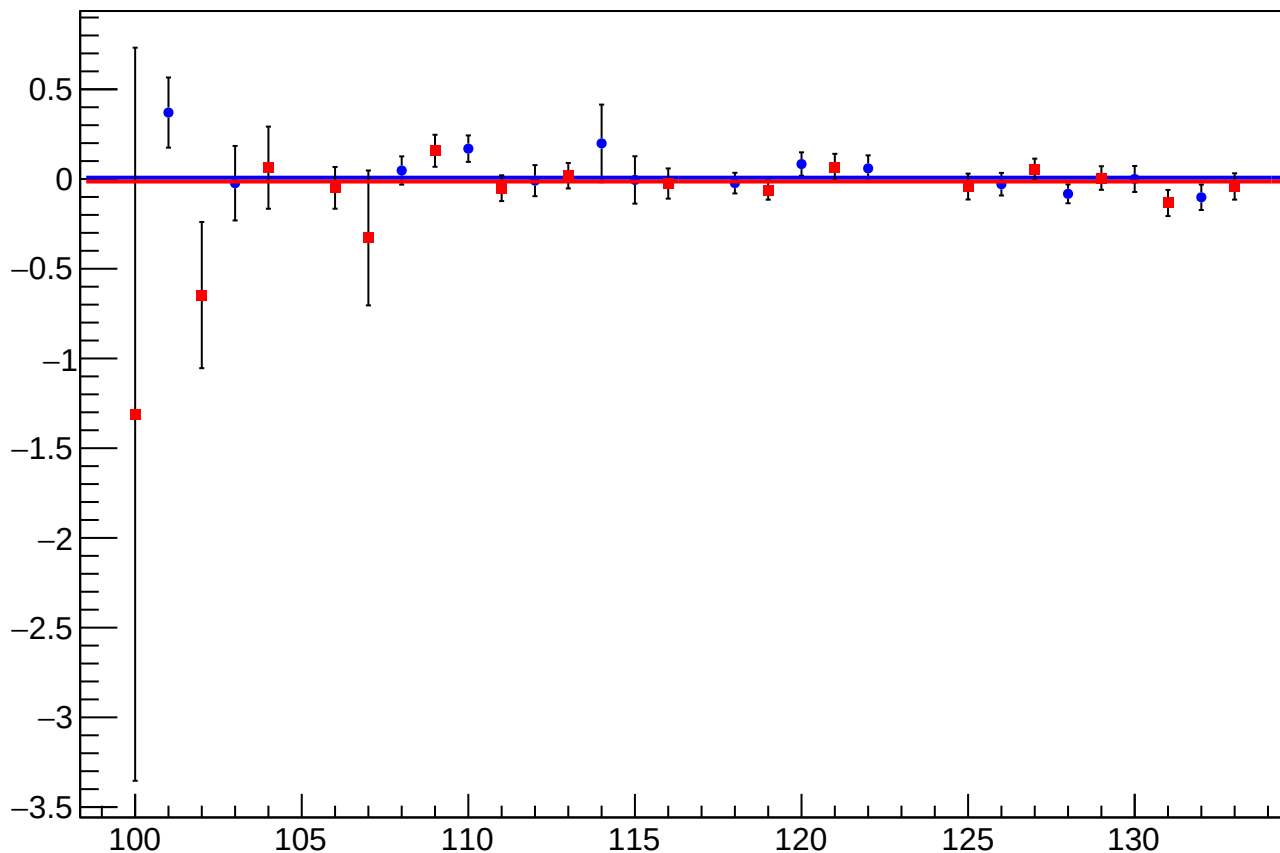
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.316+/-0.010  $\chi^2/\text{NDF}$ : 2748748.5/29

- 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: 0.007 $\pm$ 0.021  $\chi^2$ /NDF: 17.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.014 $\pm$ 0.021  $\chi^2$ /NDF: 14.2/15

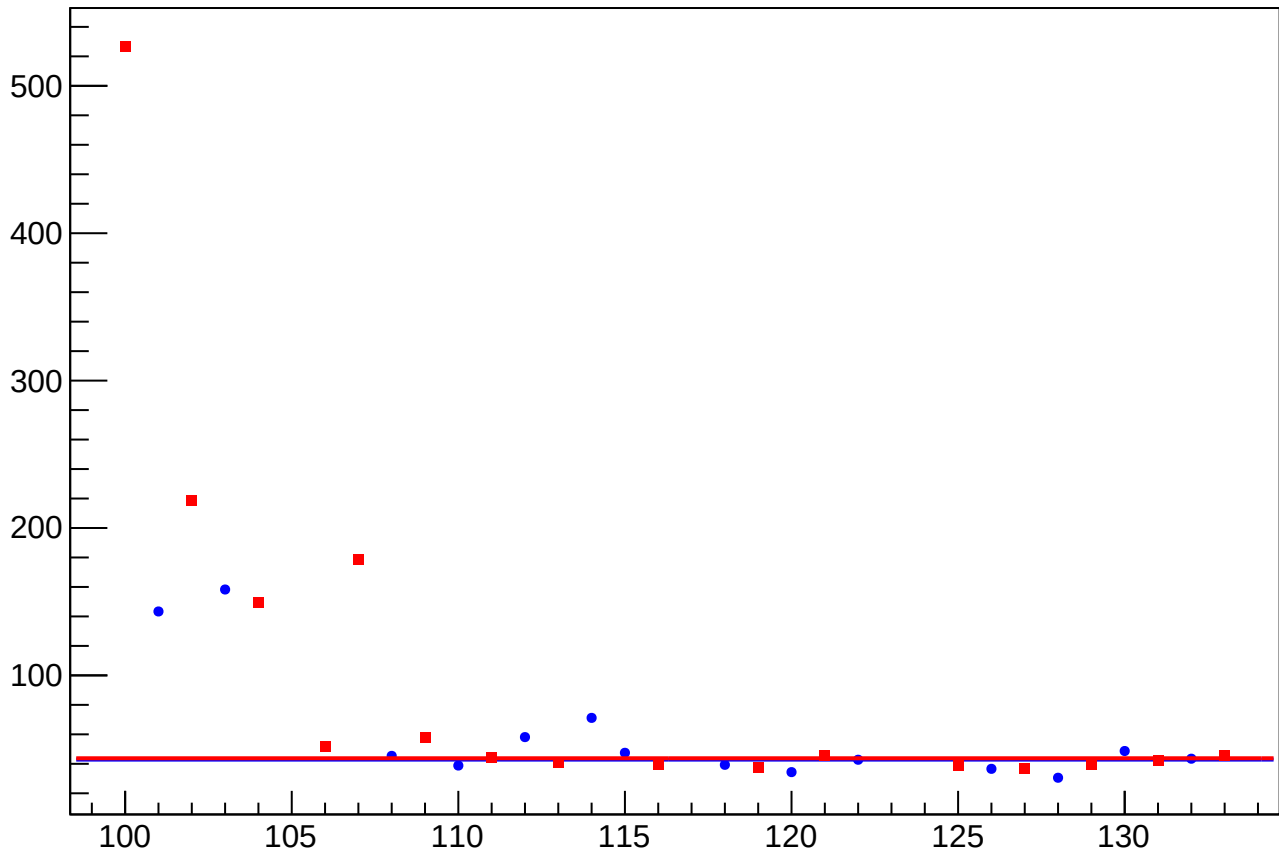
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.015  $\chi^2$ /NDF: 31.9/29

- 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: 42.862+/-0.015  $\chi^2/\text{NDF}$ : 1437793.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 43.765+/-0.015  $\chi^2/\text{NDF}$ : 1309036.8/15

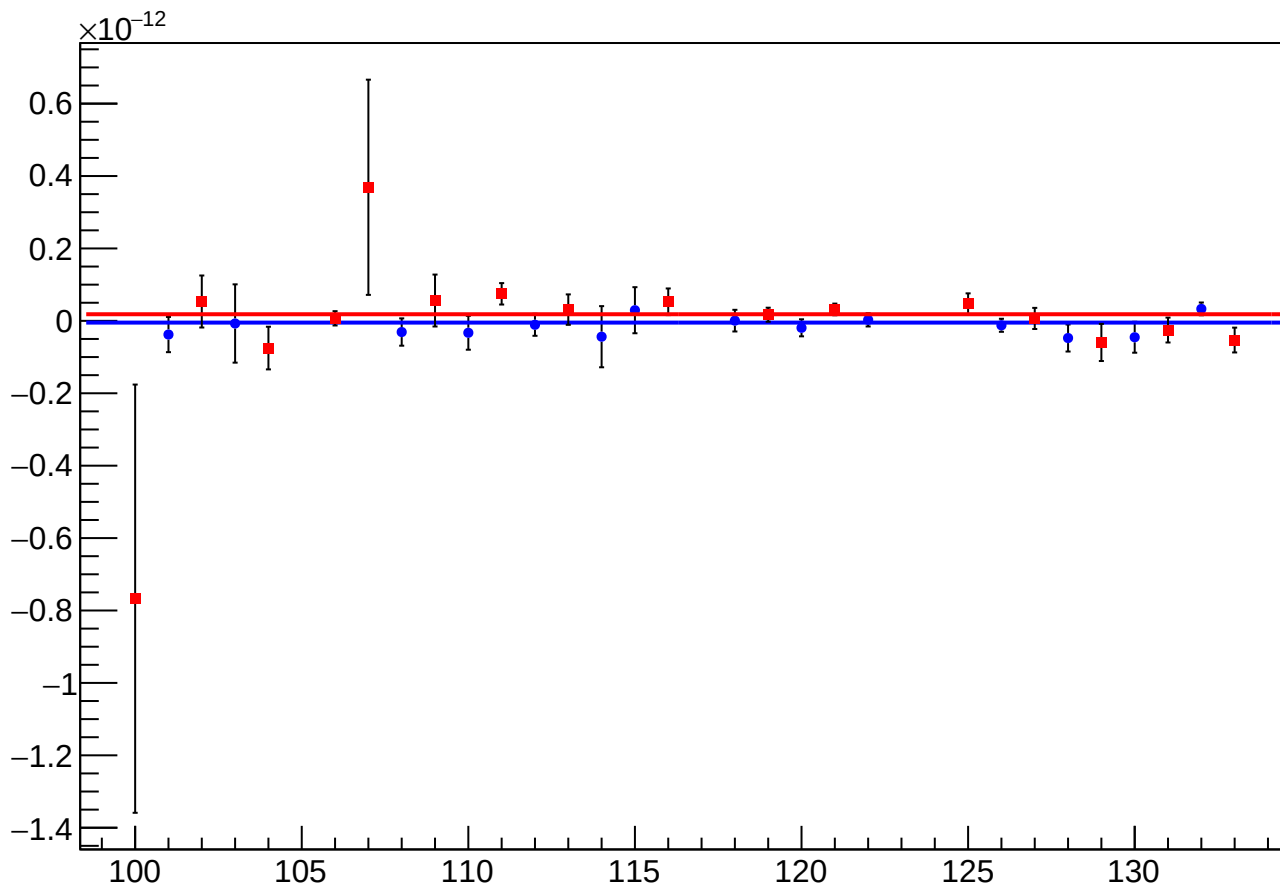
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.316+/-0.010  $\chi^2/\text{NDF}$ : 2748748.5/29

- 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: 9.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 21.3/15

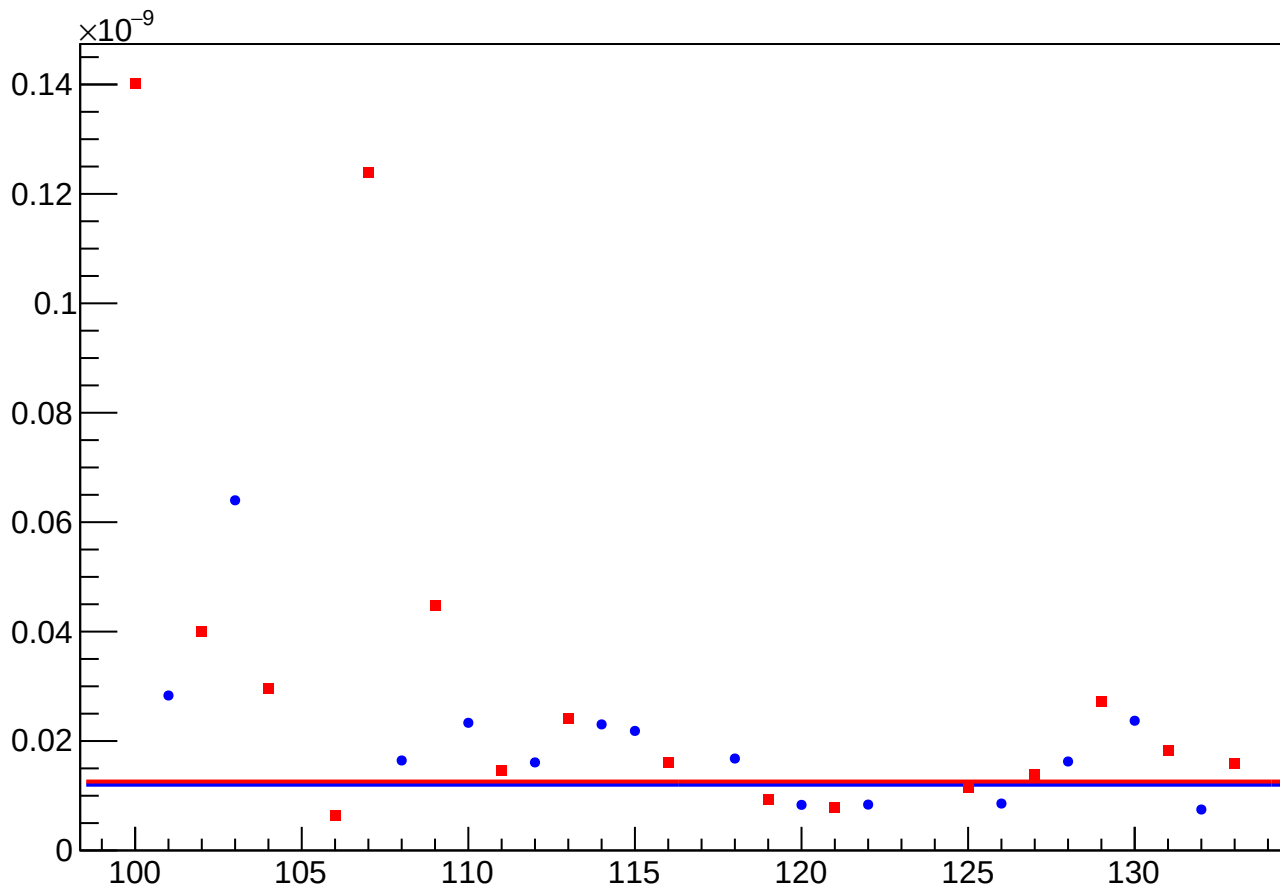
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 35.1/29

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 1509238.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2079330.2/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

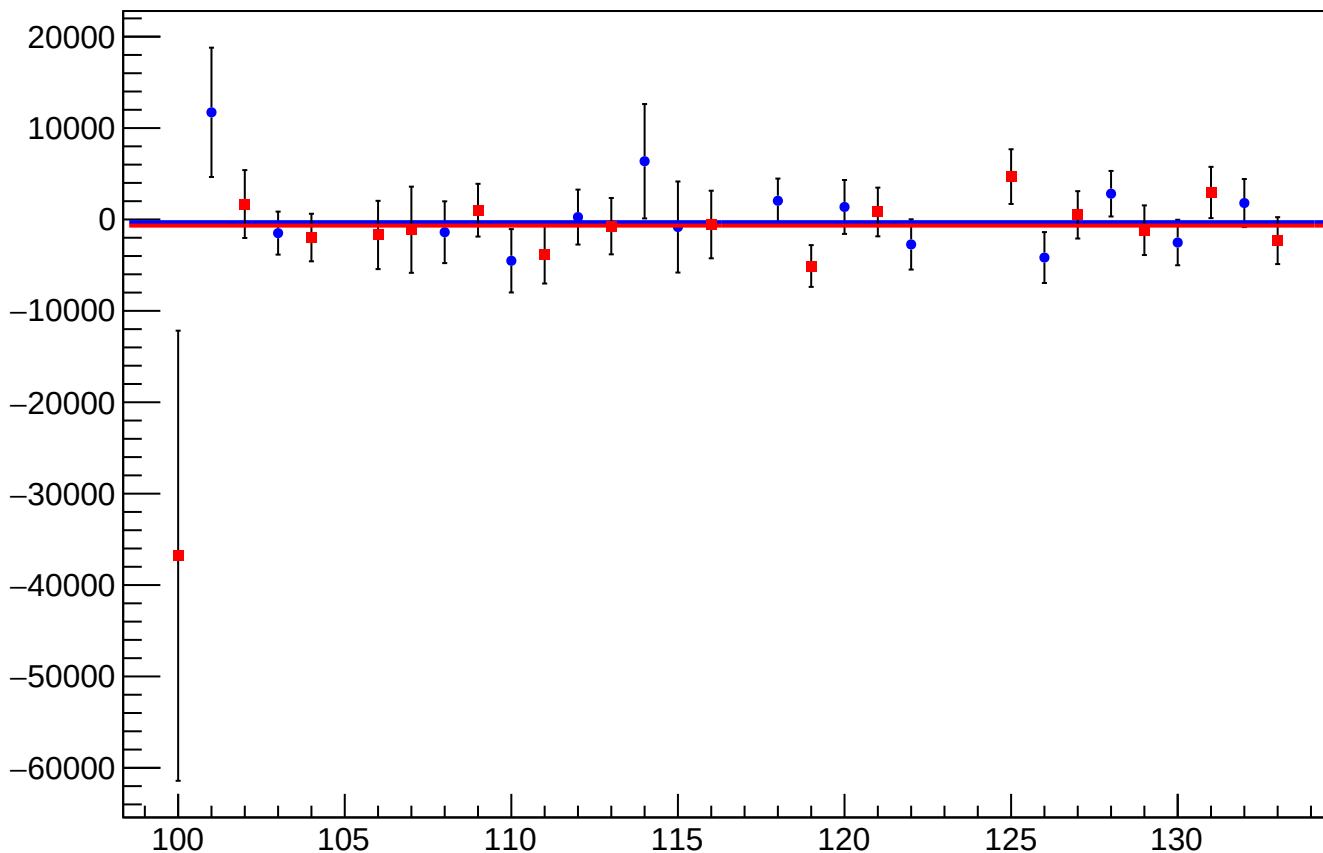
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3594137.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In:  $-296.157 \pm 800.355$   $\chi^2/\text{NDF}$ : 12.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-673.627 \pm 757.324$   $\chi^2/\text{NDF}$ : 13.8/15

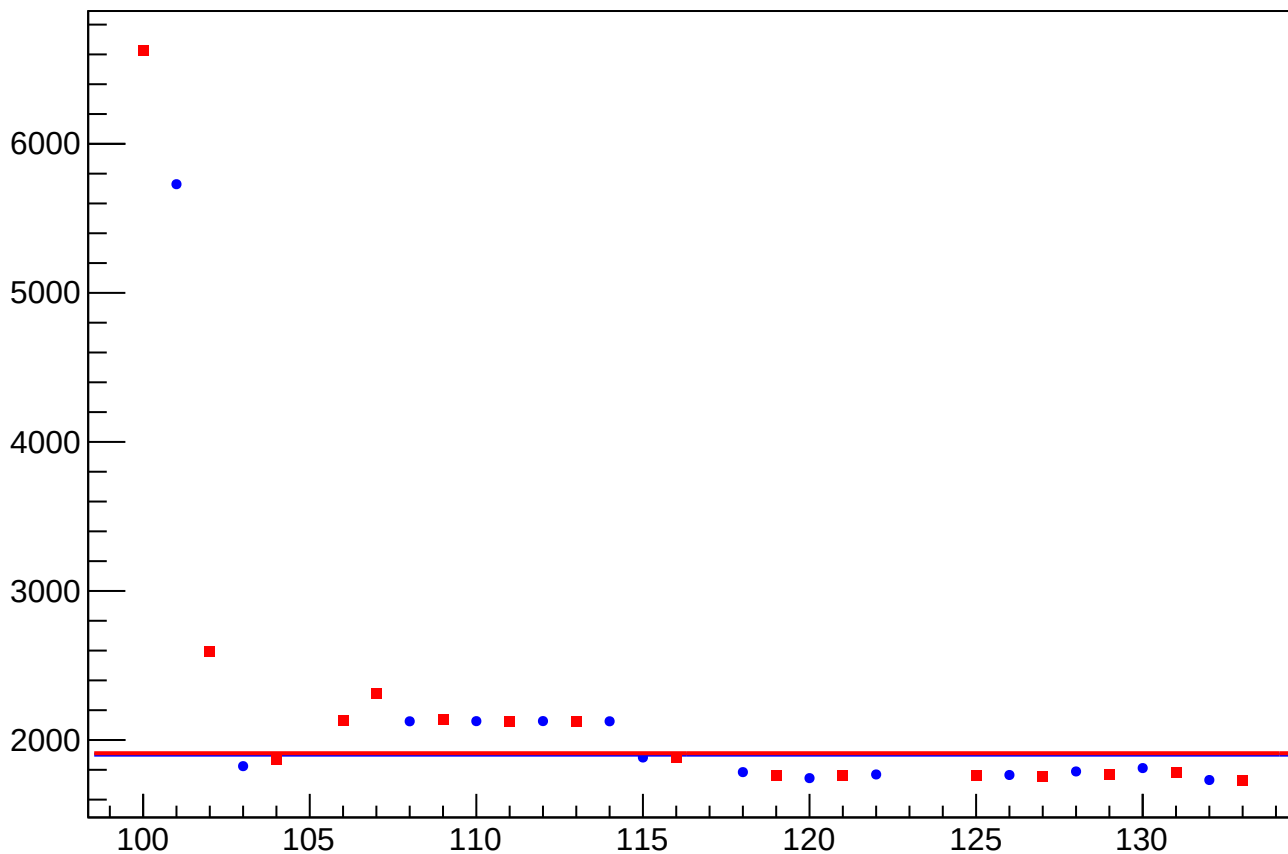
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-495.312 \pm 550.093$   $\chi^2/\text{NDF}$ : 26.8/29

- 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: 1901.837+/-0.566  $\chi^2/\text{NDF}$ : 653404.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1911.334+/-0.536  $\chi^2/\text{NDF}$ : 241256.4/15

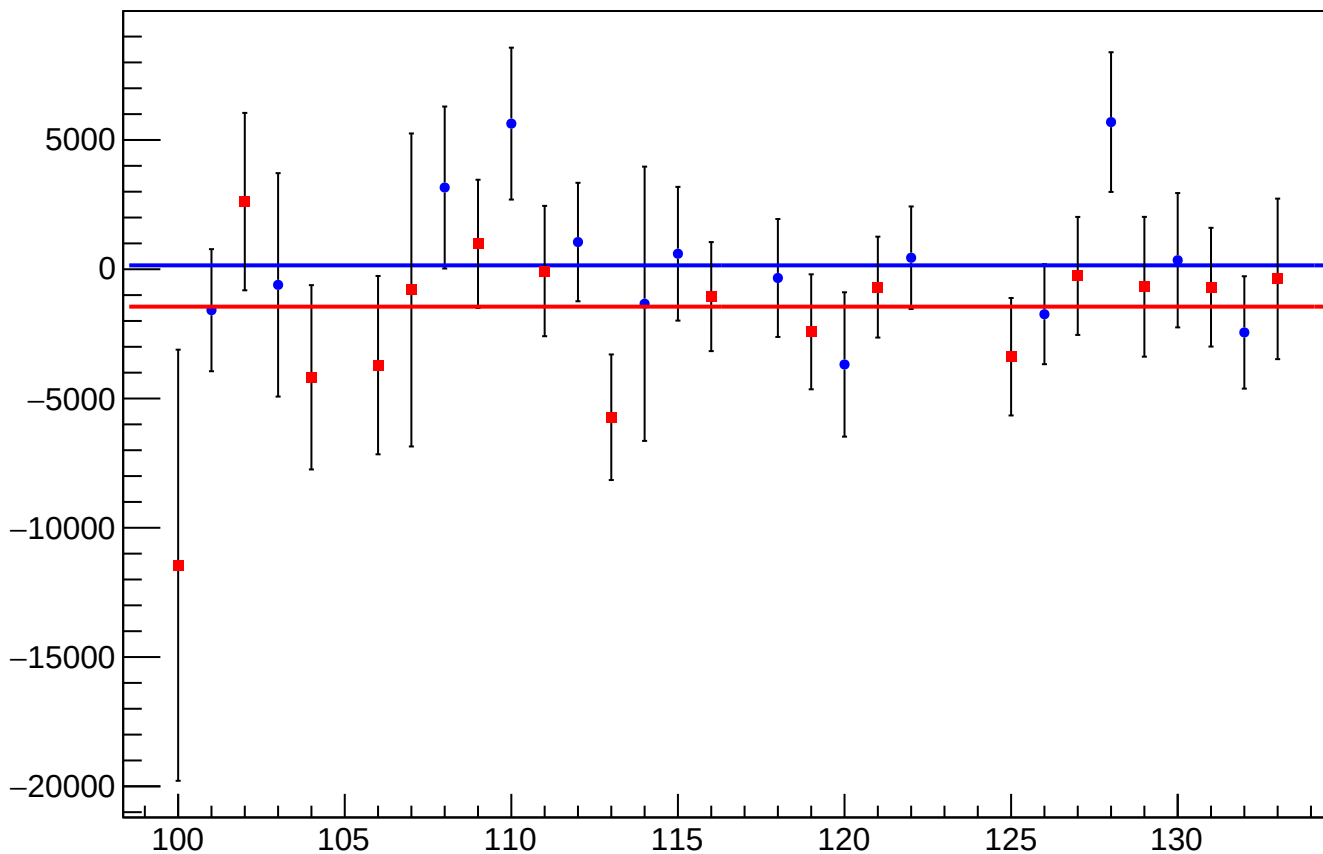
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1906.848+/-0.389  $\chi^2/\text{NDF}$ : 894809.3/29

- 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: 150.527 $\pm$ 679.538  $\chi^2$ /NDF: 13.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1446.079 $\pm$ 661.639  $\chi^2$ /NDF: 9.9/15

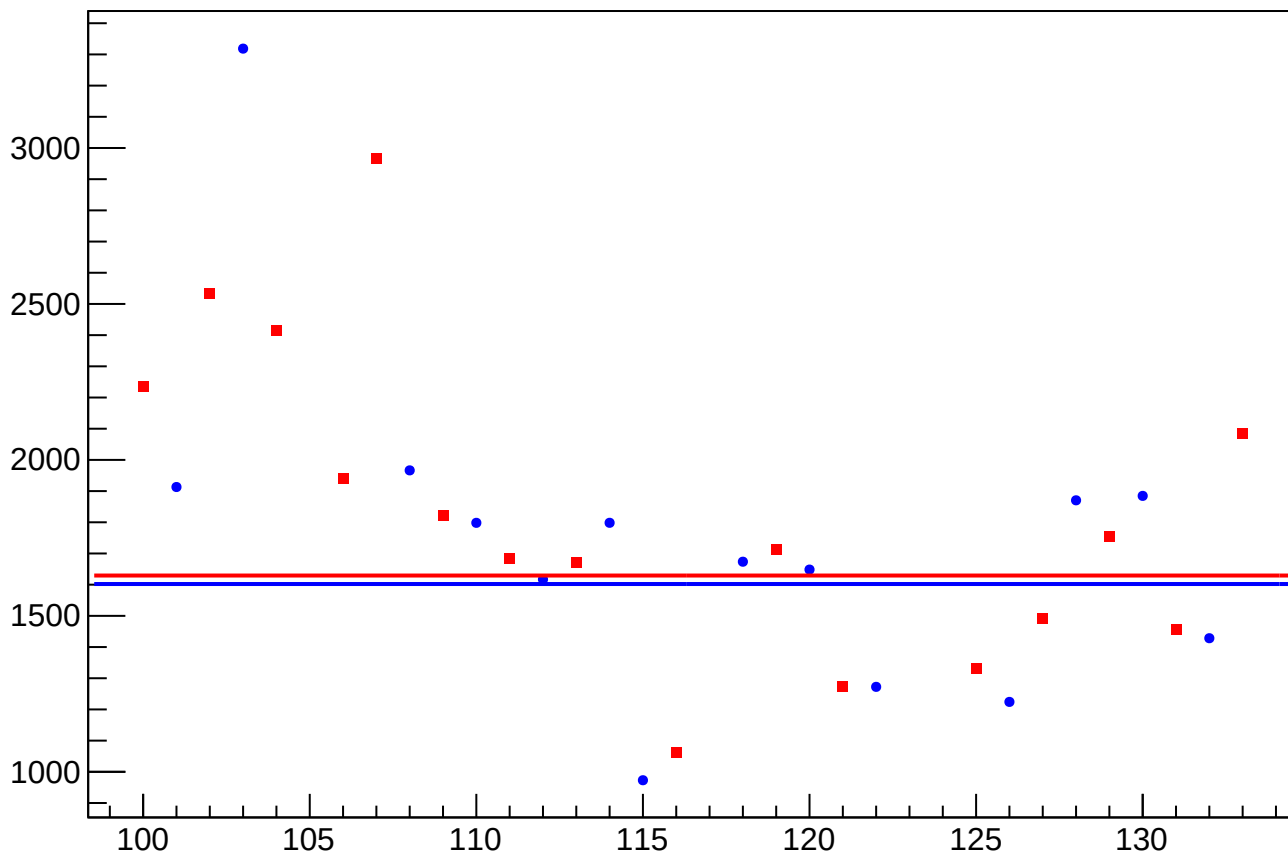
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -669.080 $\pm$ 474.051  $\chi^2$ /NDF: 26.5/29

- 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: 1602.070+/-0.481  $\chi^2$ /NDF: 697780.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1629.304+/-0.468  $\chi^2$ /NDF: 688045.7/15

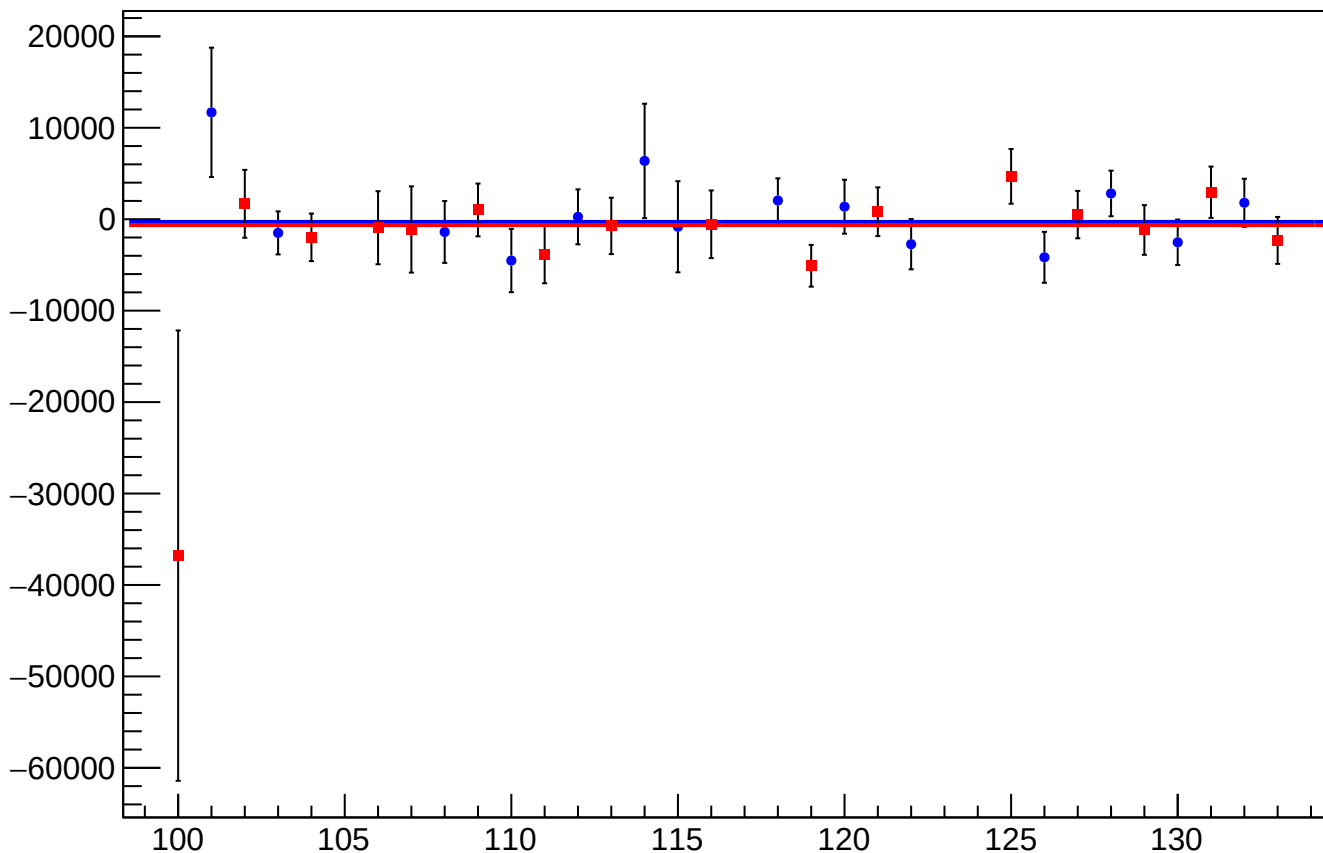
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 1616.051+/-0.335  $\chi^2$ /NDF: 1387475.1/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In: -297.063 $\pm$ 800.356  $\chi^2$ /NDF: 12.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -641.349 $\pm$ 759.282  $\chi^2$ /NDF: 13.7/15

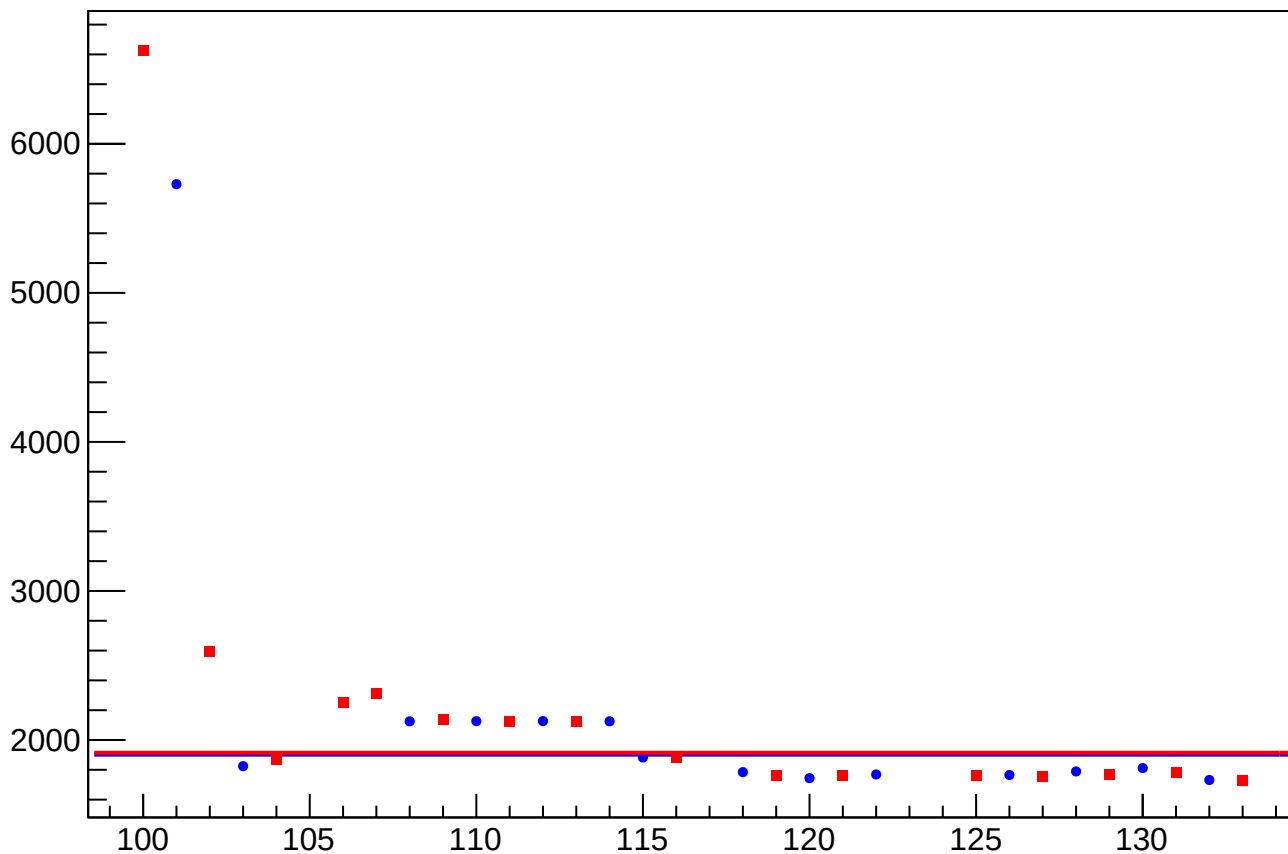
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -478.267 $\pm$ 550.842  $\chi^2$ /NDF: 26.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 1901.837+/-0.566  $\chi^2/\text{NDF}$ : 653404.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1914.406+/-0.537  $\chi^2/\text{NDF}$ : 248522.1/15

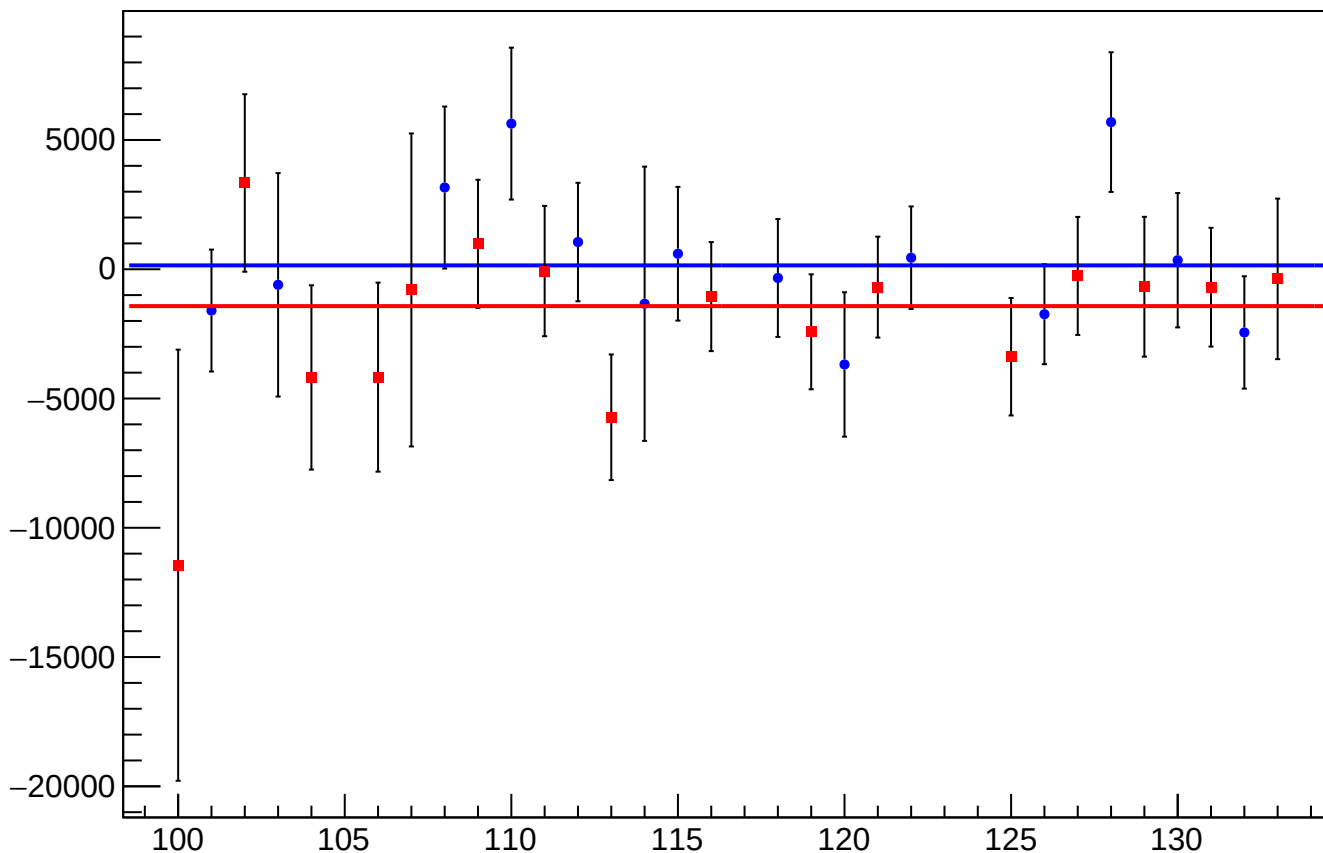
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1908.453+/-0.390  $\chi^2/\text{NDF}$ : 902185.9/29

- 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: 149.074 $\pm$ 679.459  $\chi^2$ /NDF: 13.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1425.800 $\pm$ 662.982  $\chi^2$ /NDF: 10.6/15

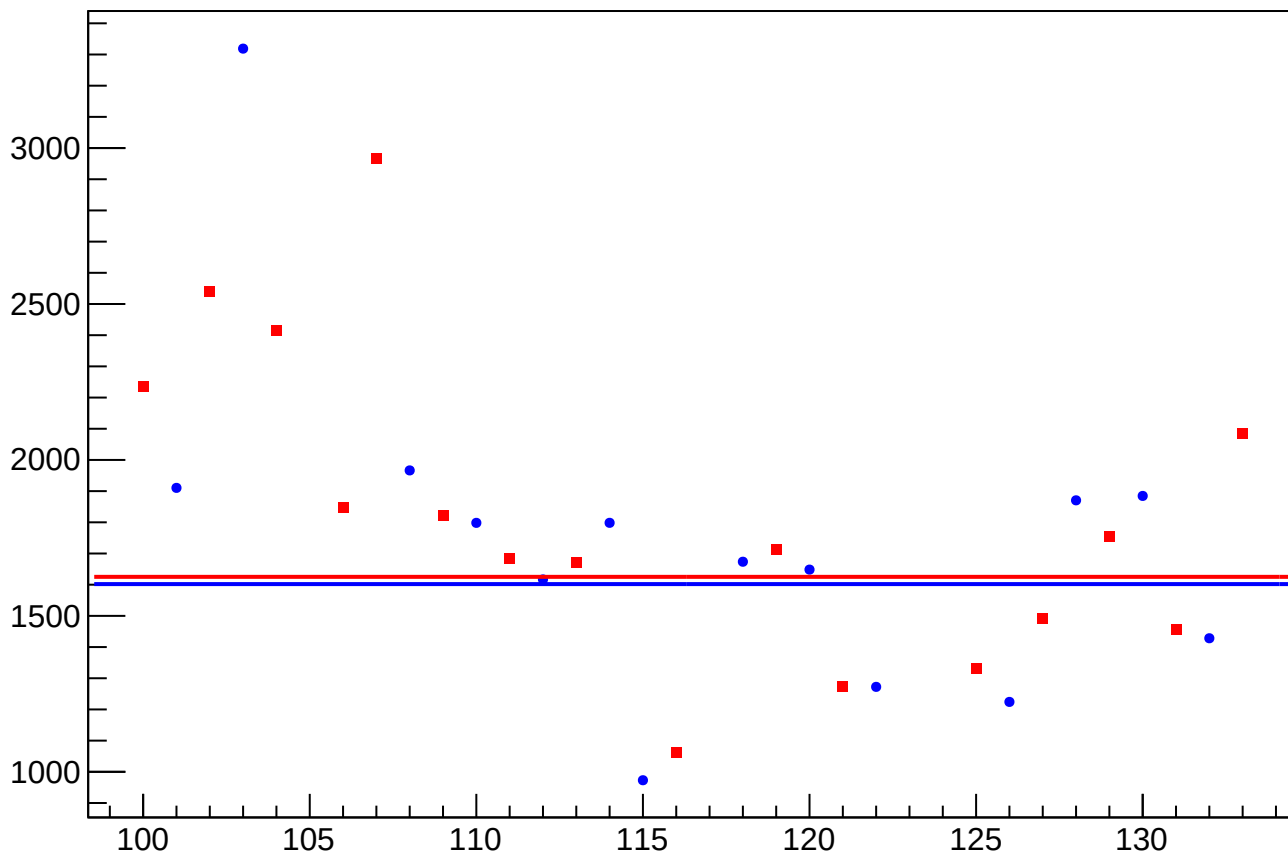
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -657.689 $\pm$ 474.518  $\chi^2$ /NDF: 27.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_cor\_correction\_rms vs Slug



Right In: 1601.913+/-0.480  $\chi^2/\text{NDF}$ : 697351.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1625.152+/-0.469  $\chi^2/\text{NDF}$ : 680506.8/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

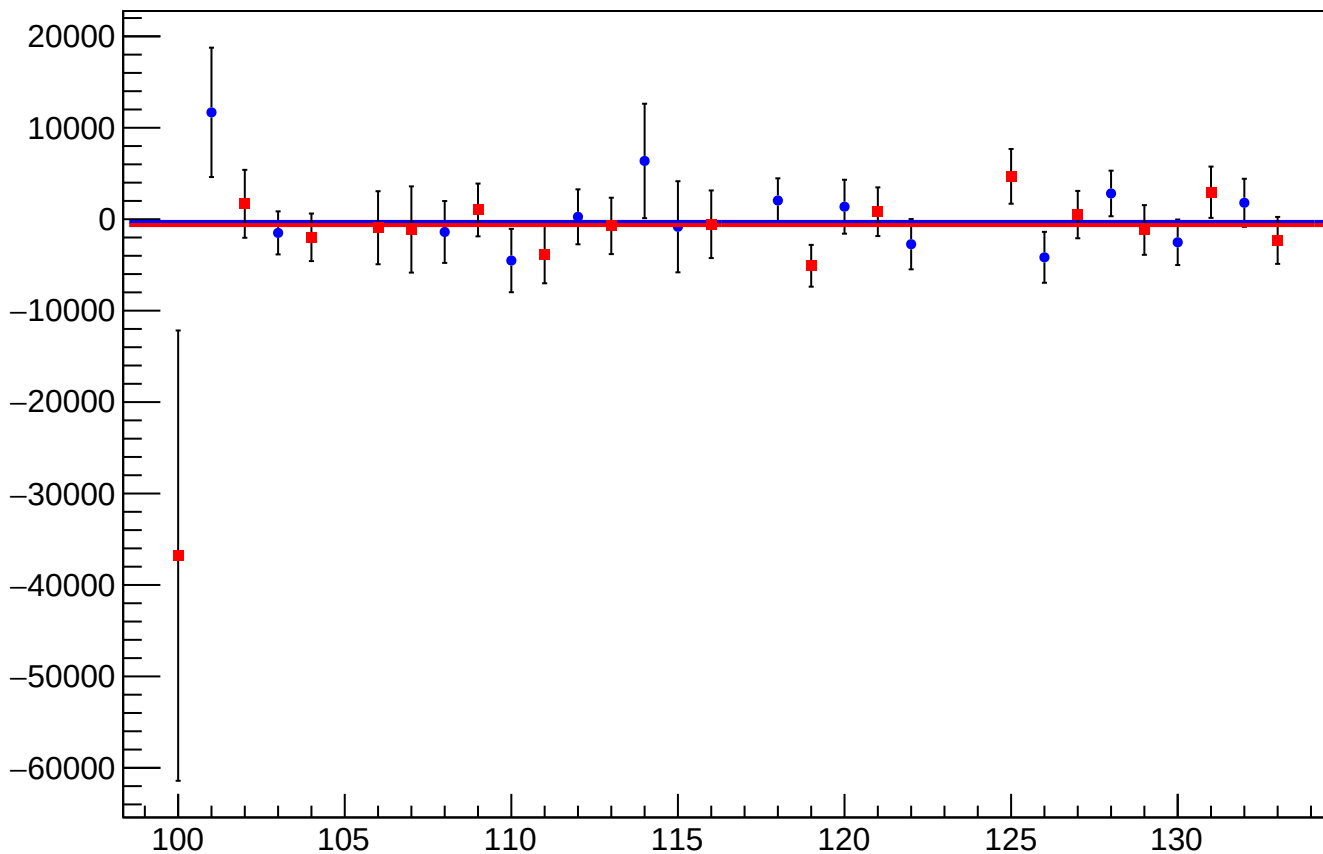
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1613.818+/-0.336  $\chi^2/\text{NDF}$ : 1379056.2/29

- 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: -297.063+/-800.356  $\chi^2$ /NDF: 12.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -641.349+/-759.282  $\chi^2$ /NDF: 13.7/15

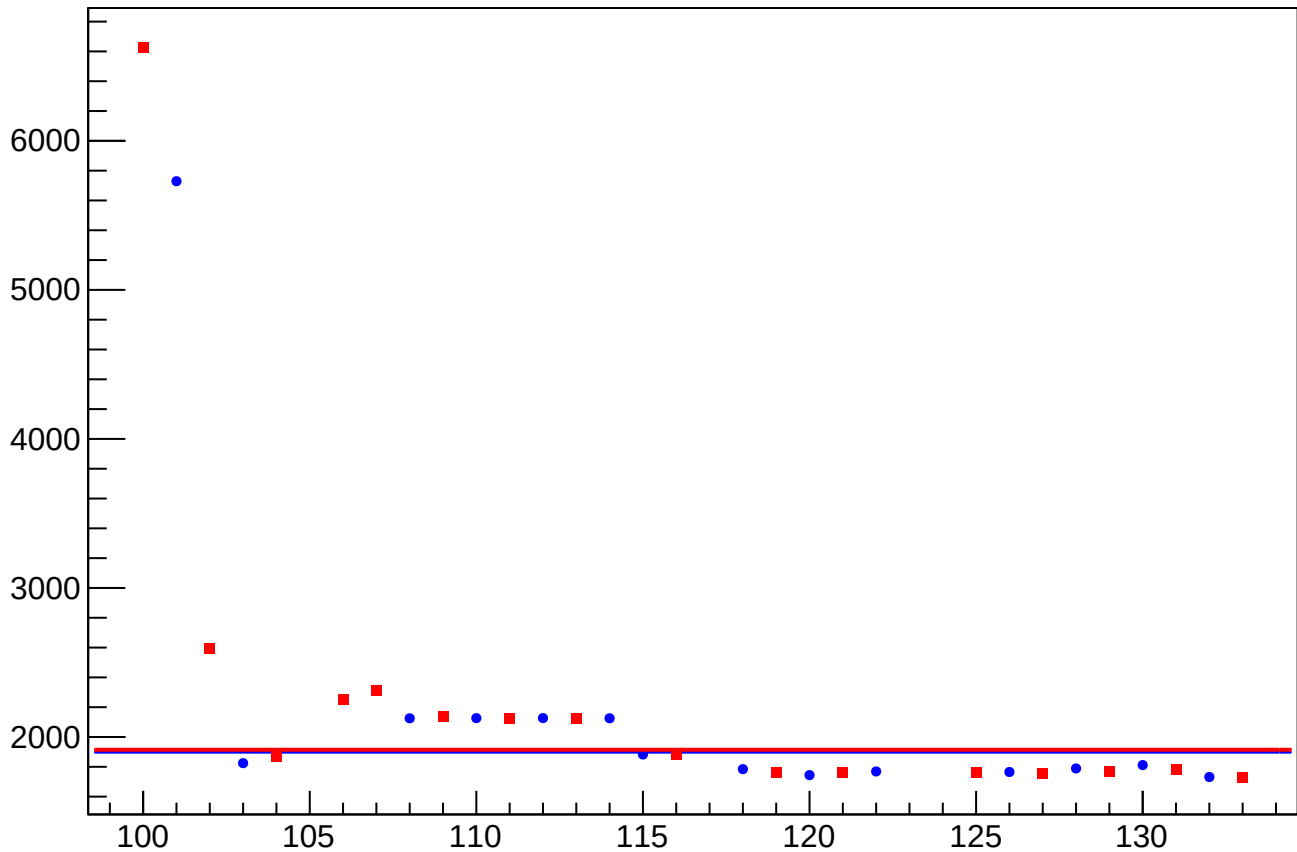
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -478.267+/-550.842  $\chi^2$ /NDF: 26.7/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 1901.837+/-0.566  $\chi^2/\text{NDF}$ : 653404.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1914.406+/-0.537  $\chi^2/\text{NDF}$ : 248522.1/15

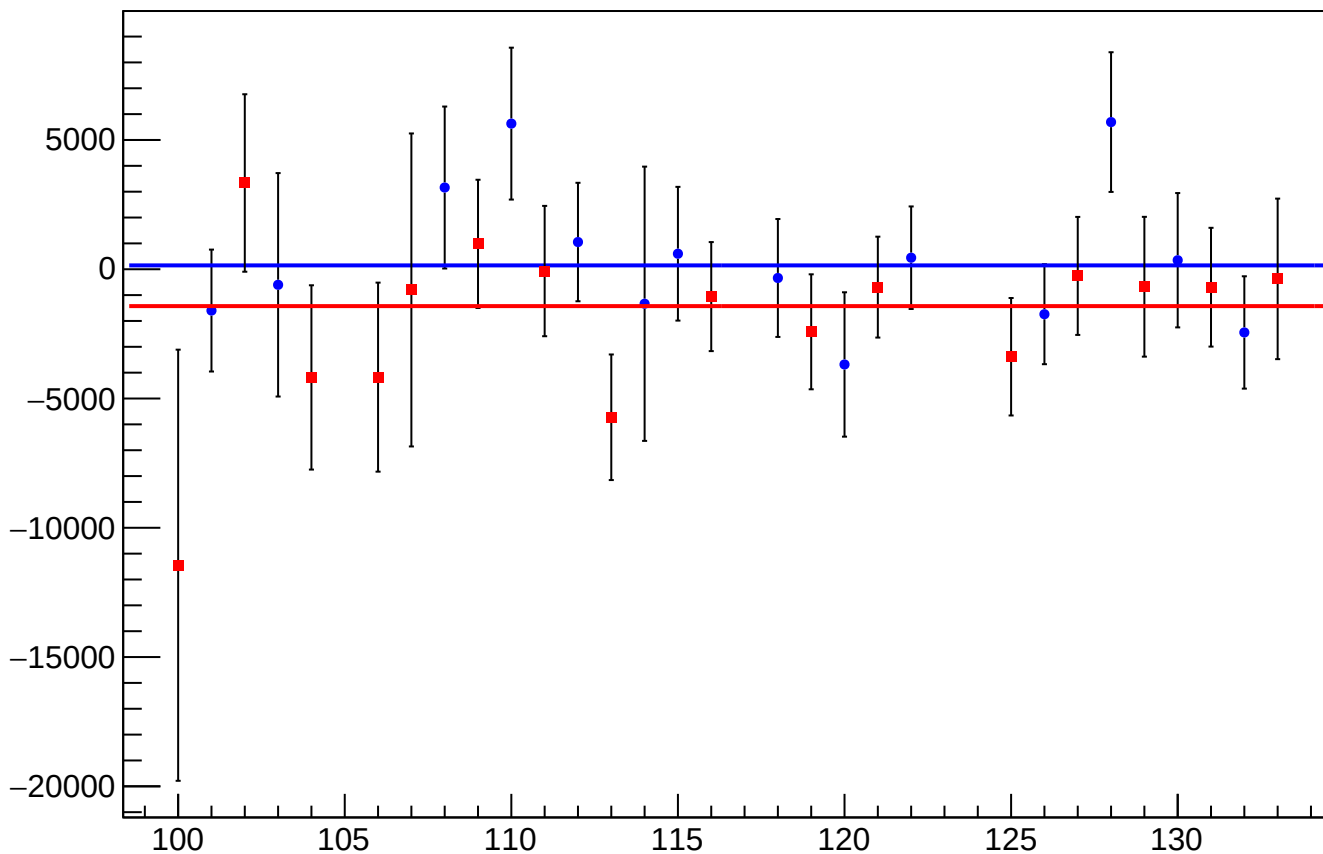
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1908.453+/-0.390  $\chi^2/\text{NDF}$ : 902185.9/29

- 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: 149.074+/-679.459  $\chi^2/\text{NDF}$ : 13.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1425.800+/-662.982  $\chi^2/\text{NDF}$ : 10.6/15

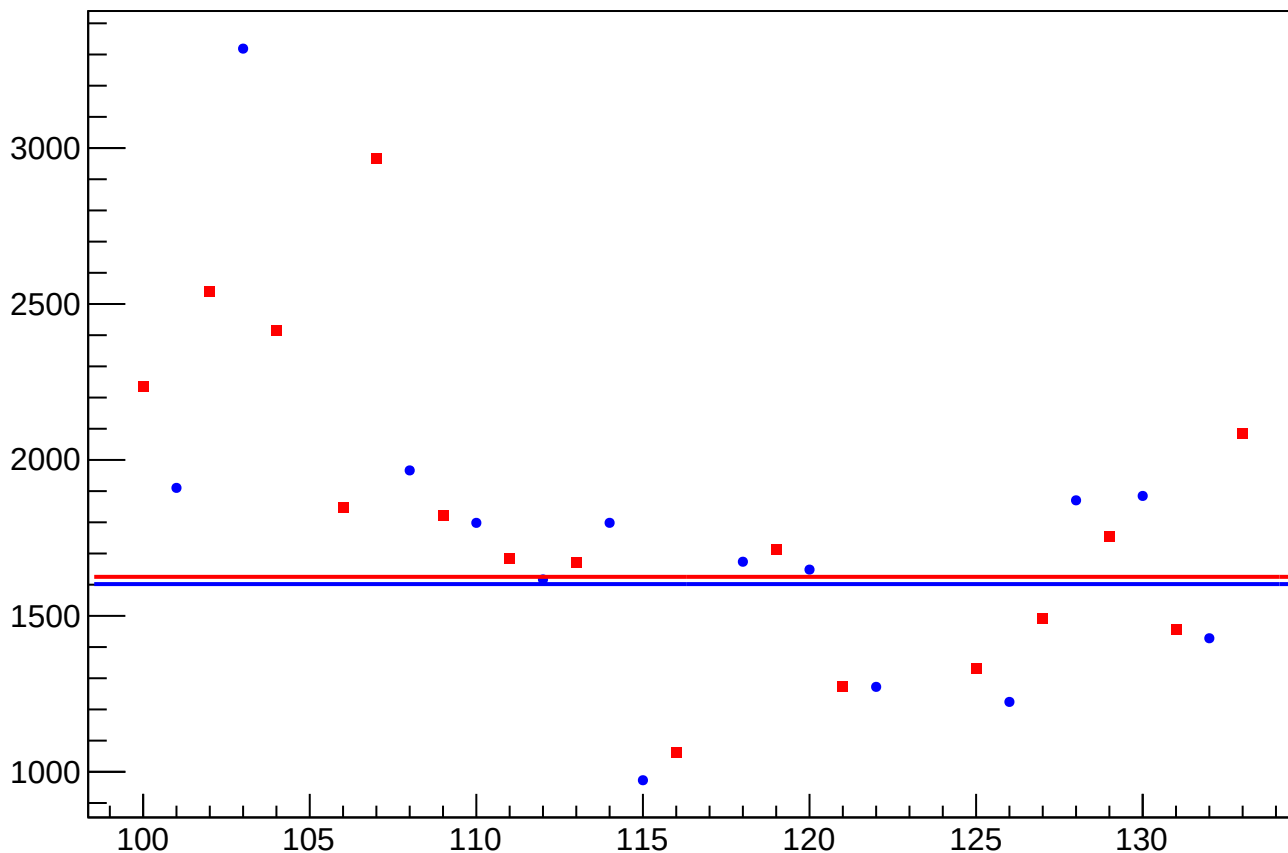
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -657.689+/-474.518  $\chi^2/\text{NDF}$ : 27.1/29

- 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: 1601.913+/-0.480  $\chi^2/\text{NDF}$ : 697351.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1625.152+/-0.469  $\chi^2/\text{NDF}$ : 680506.8/15

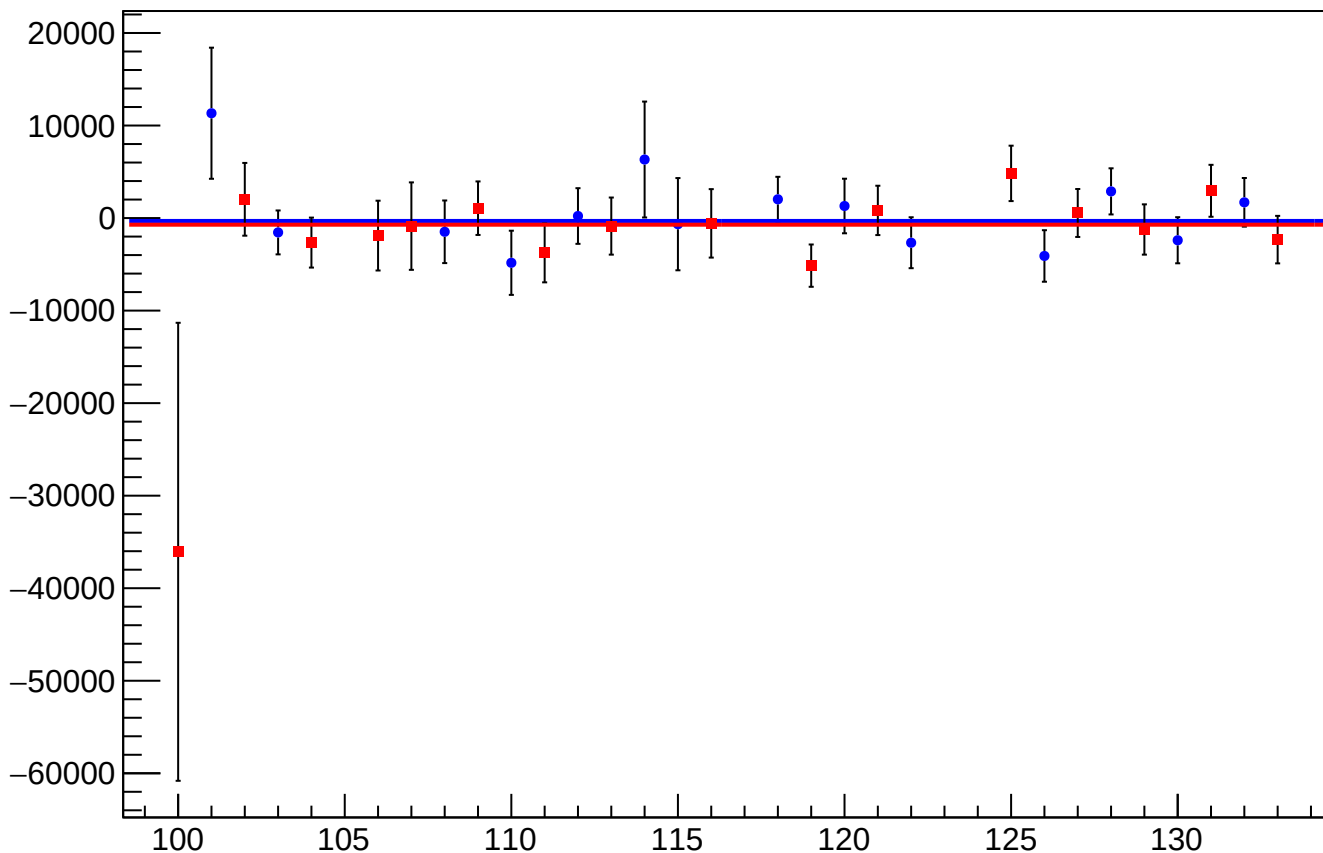
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1613.818+/-0.336  $\chi^2/\text{NDF}$ : 1379056.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In:  $-311.221 \pm 801.444$   $\chi^2/\text{NDF}$ : 12.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-717.120 \pm 762.064$   $\chi^2/\text{NDF}$ : 14.3/15

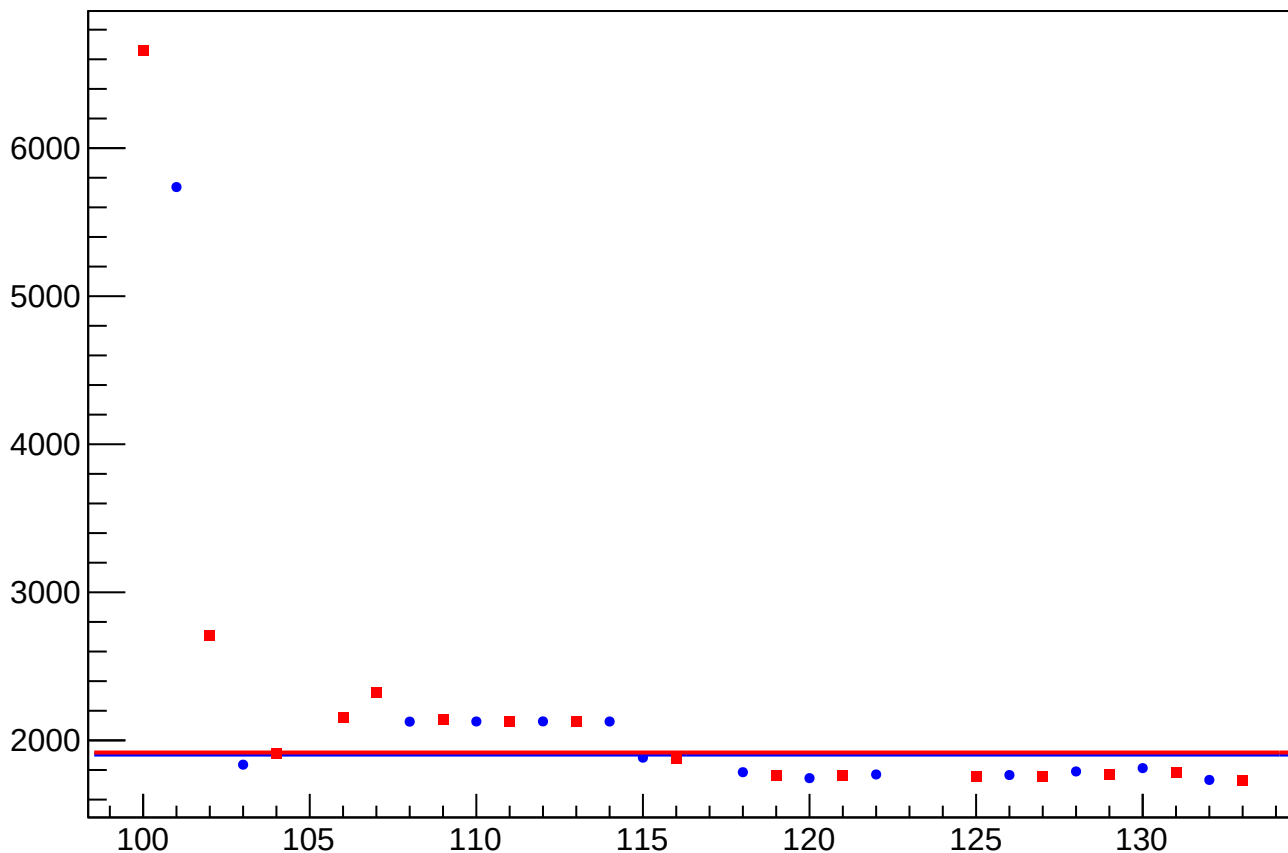
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-524.387 \pm 552.258$   $\chi^2/\text{NDF}$ : 27.2/29

- 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: 1904.075+/-0.567  $\chi^2/\text{NDF}$ : 653395.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1917.947+/-0.539  $\chi^2/\text{NDF}$ : 258116.8/15

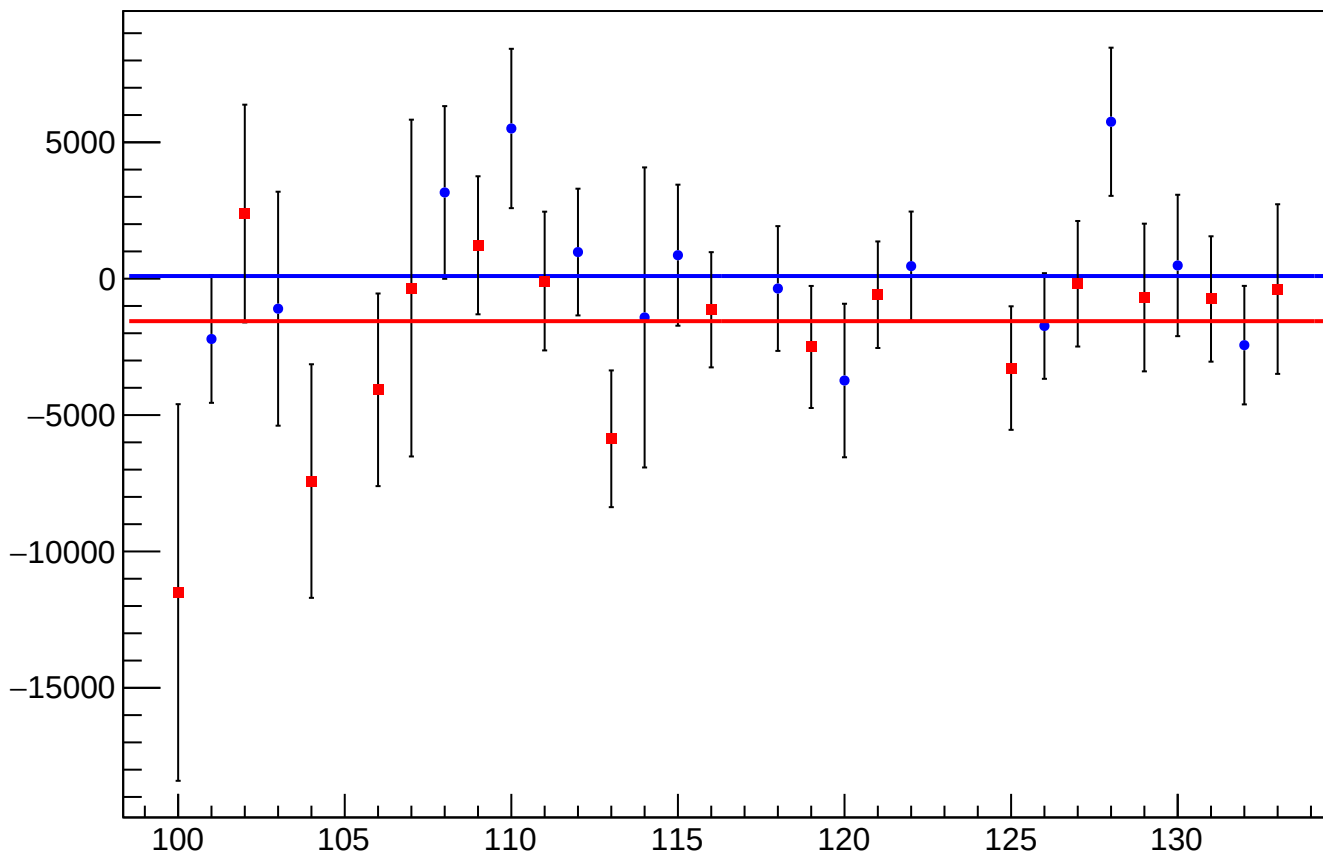
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1911.360+/-0.391  $\chi^2/\text{NDF}$ : 911827.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_correction\_mean vs Slug



Right In: 97.413+/-681.672  $\chi^2/\text{NDF}$ : 14.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1556.712+/-672.127  $\chi^2/\text{NDF}$ : 11.7/15

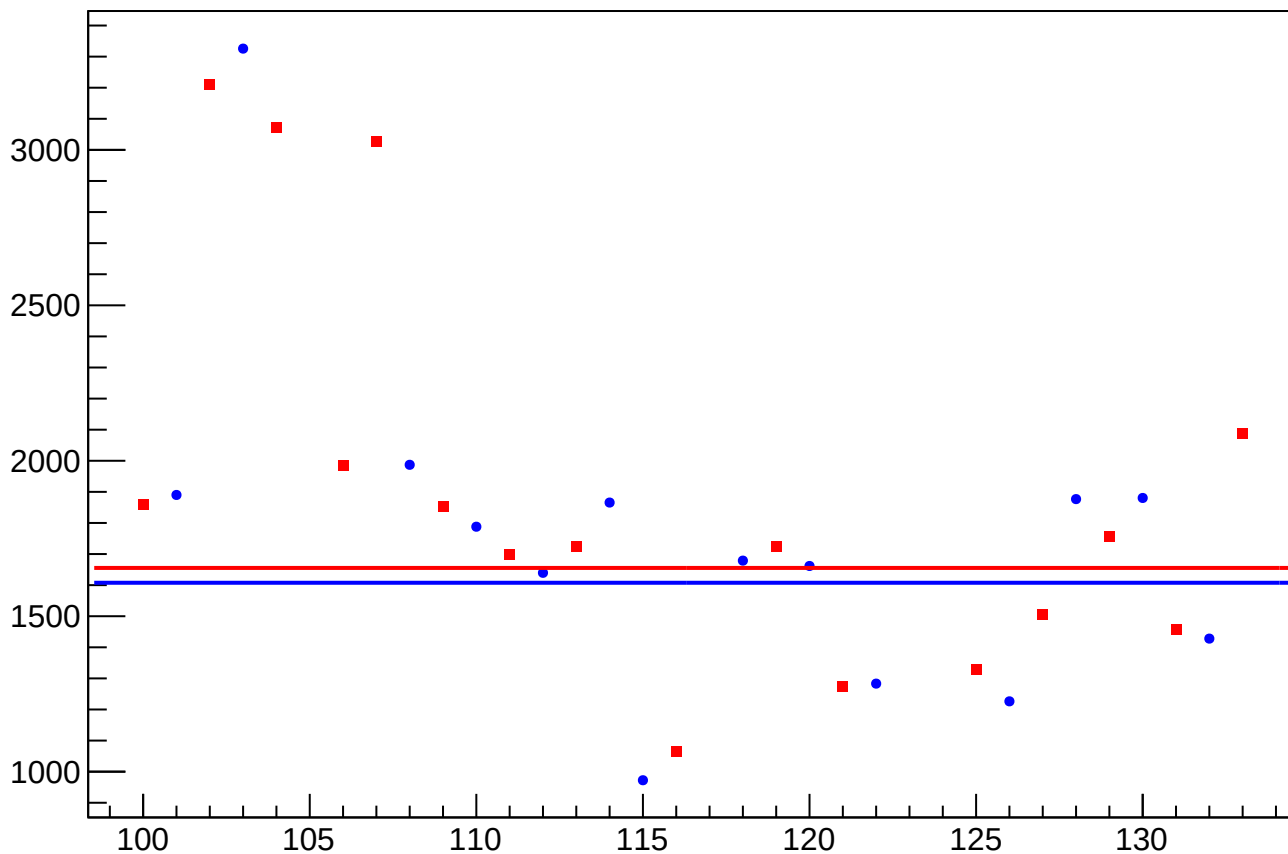
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -741.310+/-478.605  $\chi^2/\text{NDF}$ : 29.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_correction\_rms vs Slug



Right In: 1607.633+/-0.482  $\chi^2/\text{NDF}$ : 700214.2/13

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: 1655.337+/-0.475  $\chi^2/\text{NDF}$ : 995259.5/15

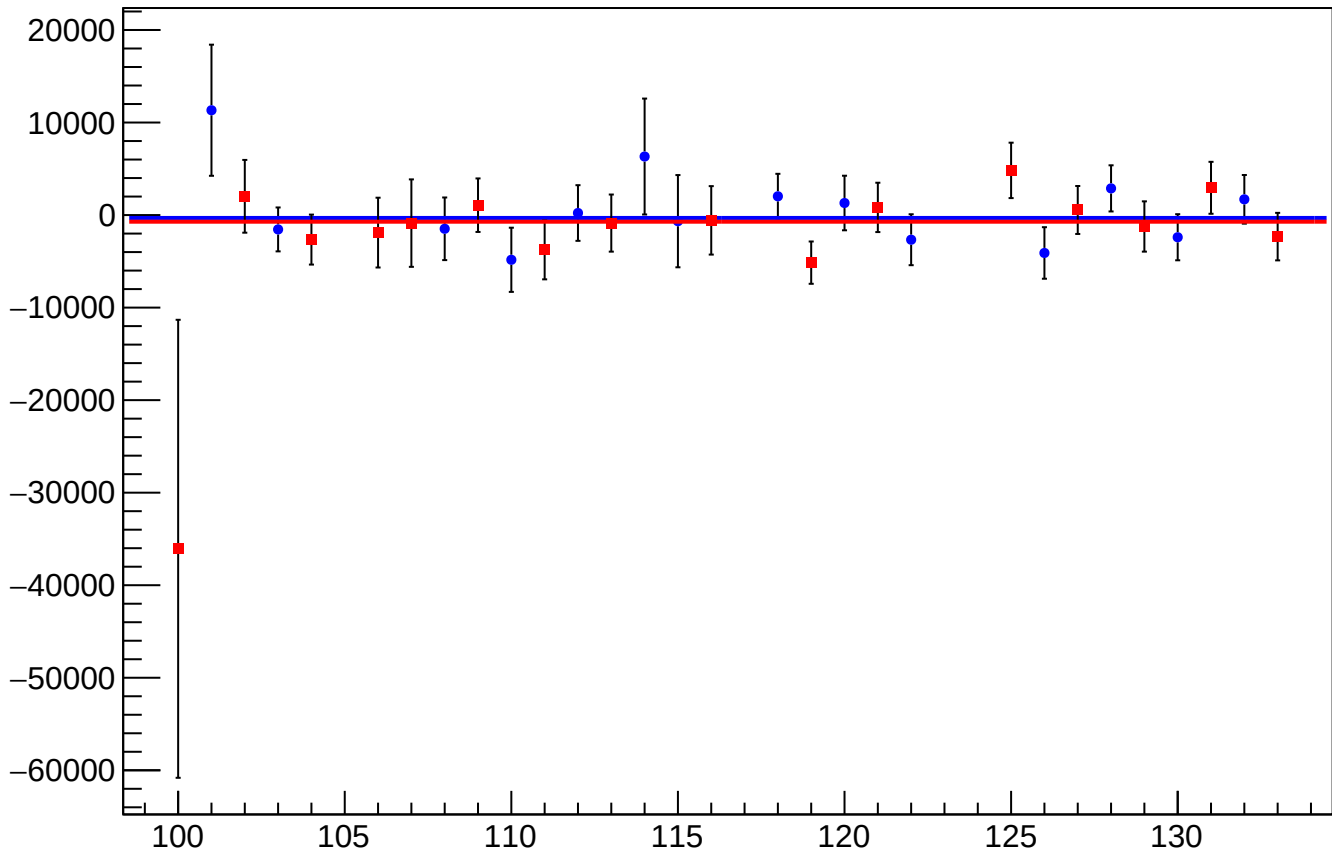
All: 1631.821+/-0.338  $\chi^2/\text{NDF}$ : 1700440.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In:  $-311.222 \pm 801.444$   $\chi^2/\text{NDF}$ : 12.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-717.119 \pm 762.064$   $\chi^2/\text{NDF}$ : 14.3/15

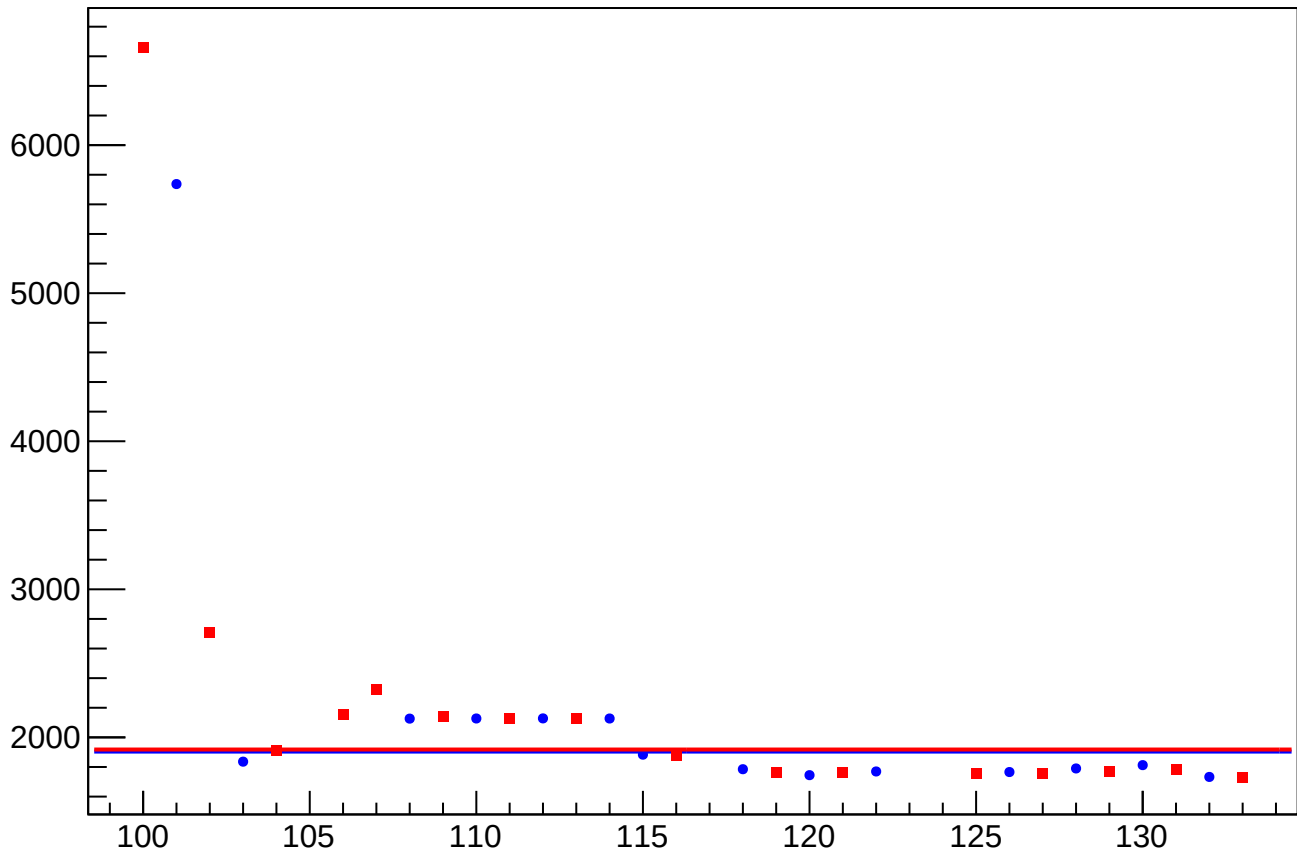
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-524.387 \pm 552.258$   $\chi^2/\text{NDF}$ : 27.2/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 1904.075+/-0.567  $\chi^2/\text{NDF}$ : 653395.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1917.947+/-0.539  $\chi^2/\text{NDF}$ : 258116.6/15

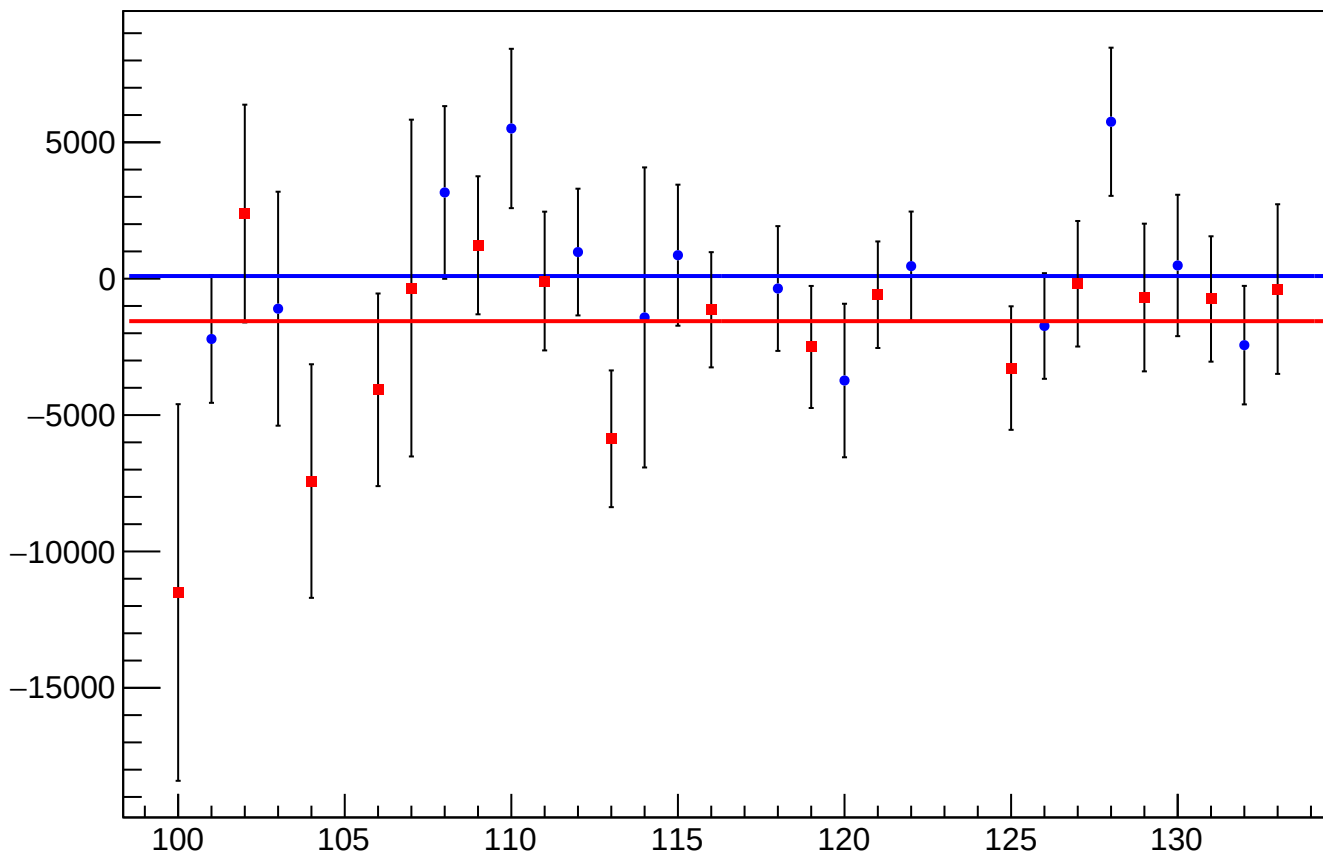
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1911.360+/-0.391  $\chi^2/\text{NDF}$ : 911827.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 97.416+/-681.670  $\chi^2/\text{NDF}$ : 14.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1556.708+/-672.126  $\chi^2/\text{NDF}$ : 11.7/15

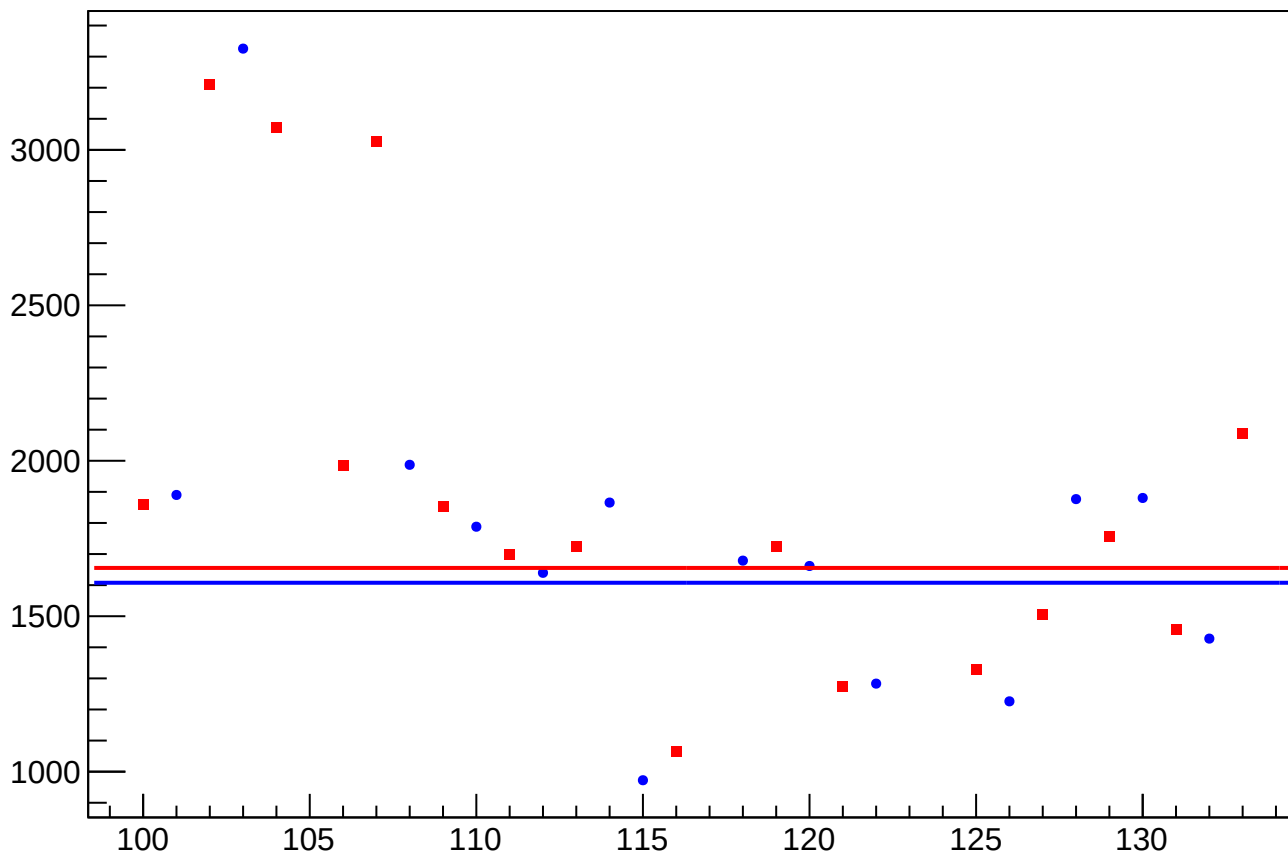
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -741.307+/-478.604  $\chi^2/\text{NDF}$ : 29.0/29

- 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: 1607.629+/-0.482  $\chi^2/\text{NDF}$ : 700214.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1655.333+/-0.475  $\chi^2/\text{NDF}$ : 995265.2/15

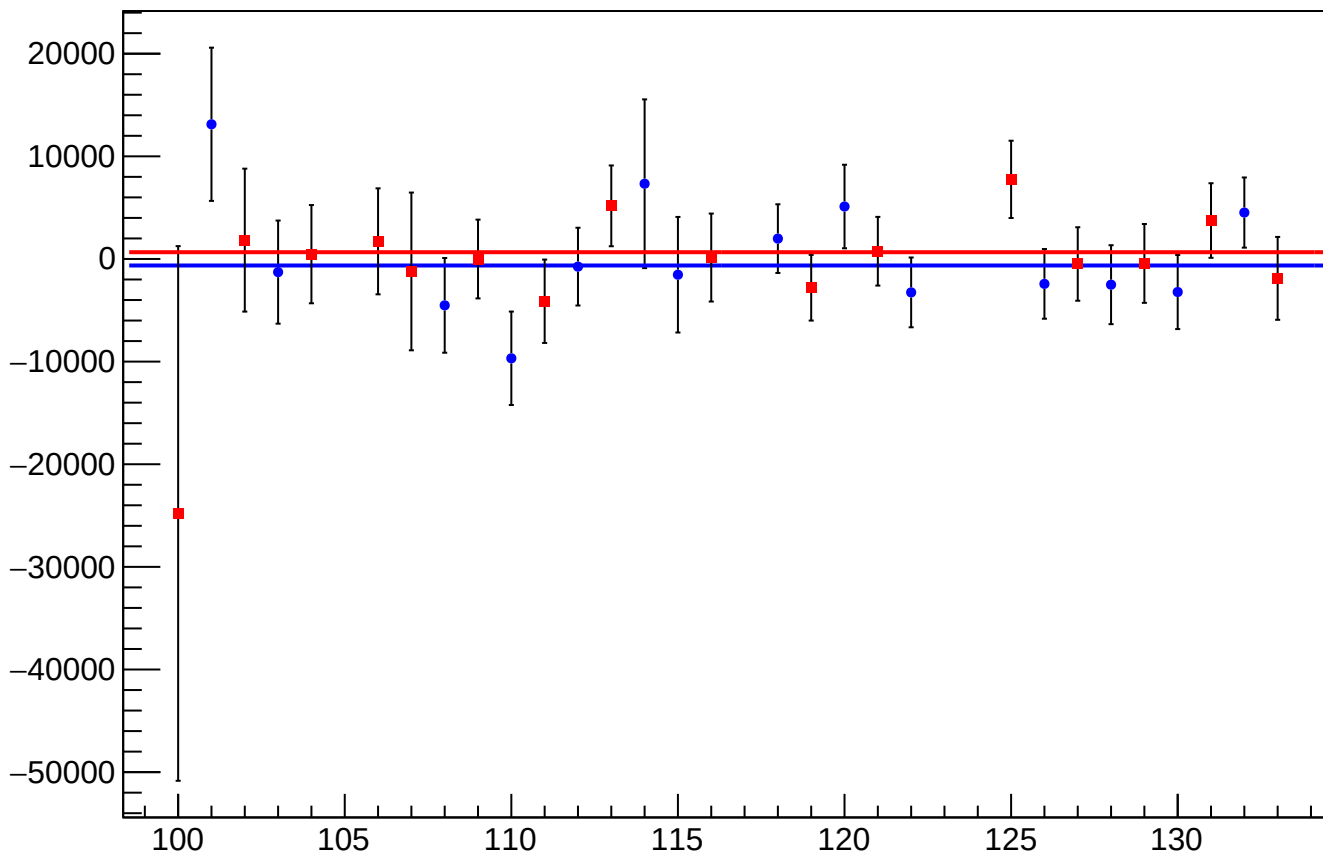
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1631.818+/-0.338  $\chi^2/\text{NDF}$ : 1700446.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug



Right In: -635.540+/-1103.218  $\chi^2/\text{NDF}$ : 15.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 659.564+/-1049.454  $\chi^2/\text{NDF}$ : 9.9/15

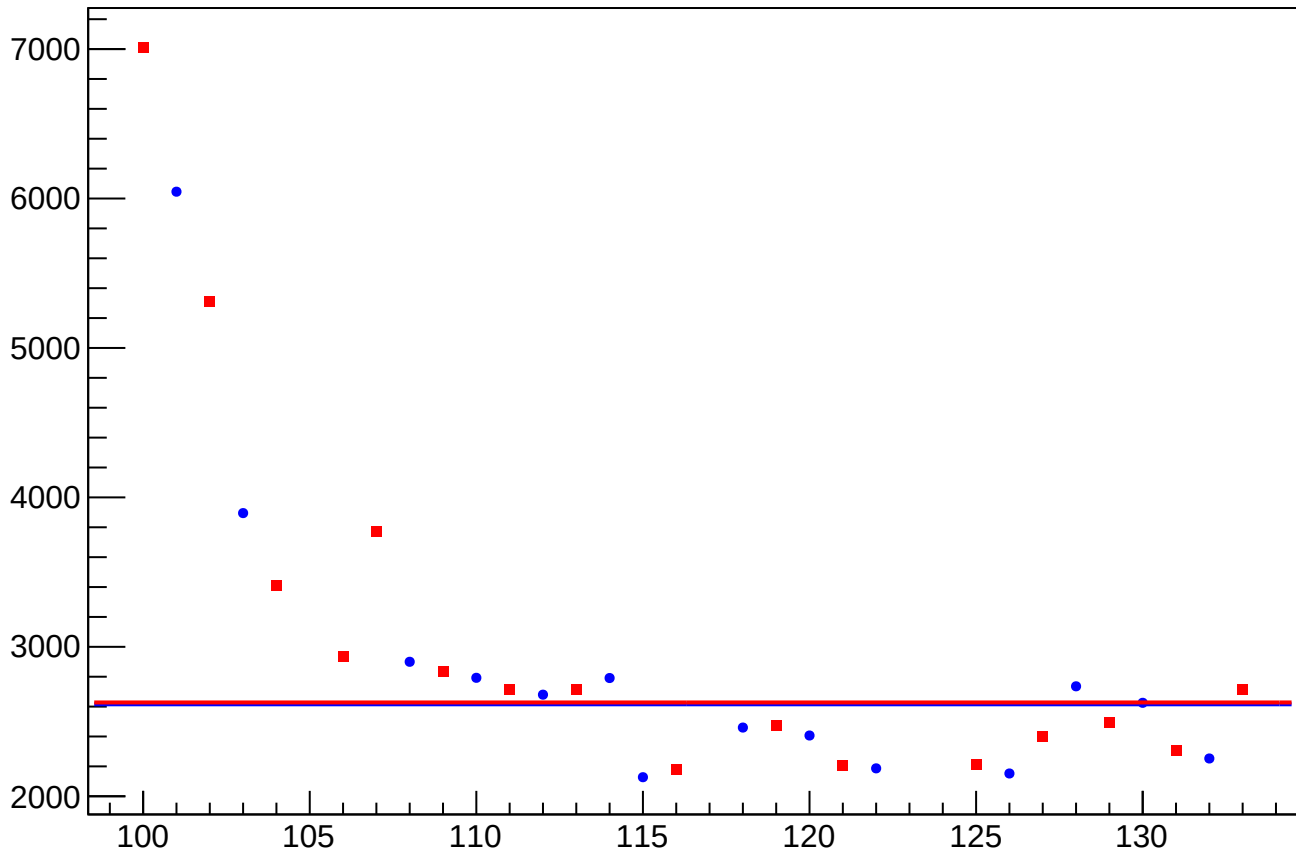
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 44.338+/-760.373  $\chi^2/\text{NDF}$ : 26.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug



Right In: 2615.436+/-0.780  $\chi^2/\text{NDF}$ : 682332.0/13

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

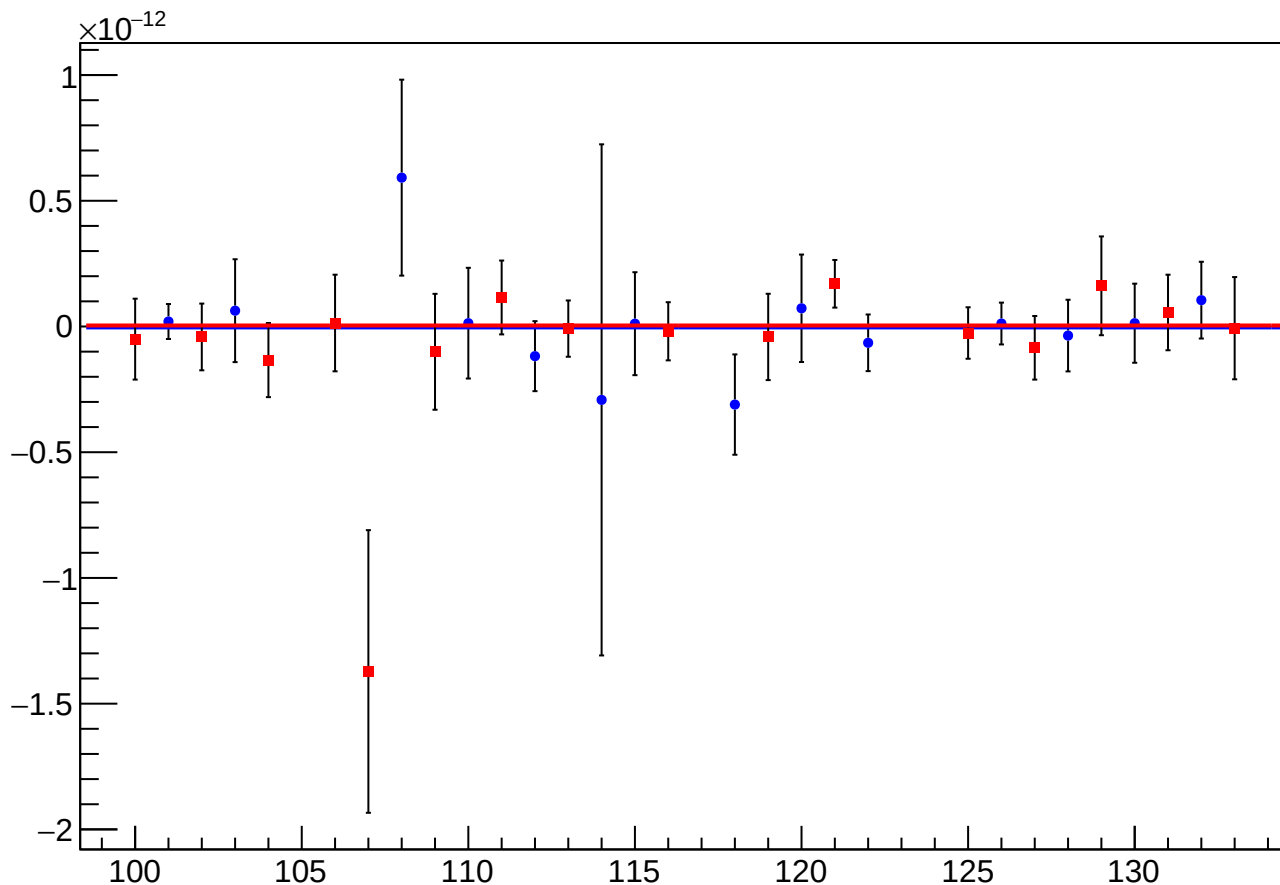
Right Out: 2627.782+/-0.742  $\chi^2/\text{NDF}$ : 575783.5/15

All: 2621.917+/-0.538  $\chi^2/\text{NDF}$ : 1258247.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.4/15

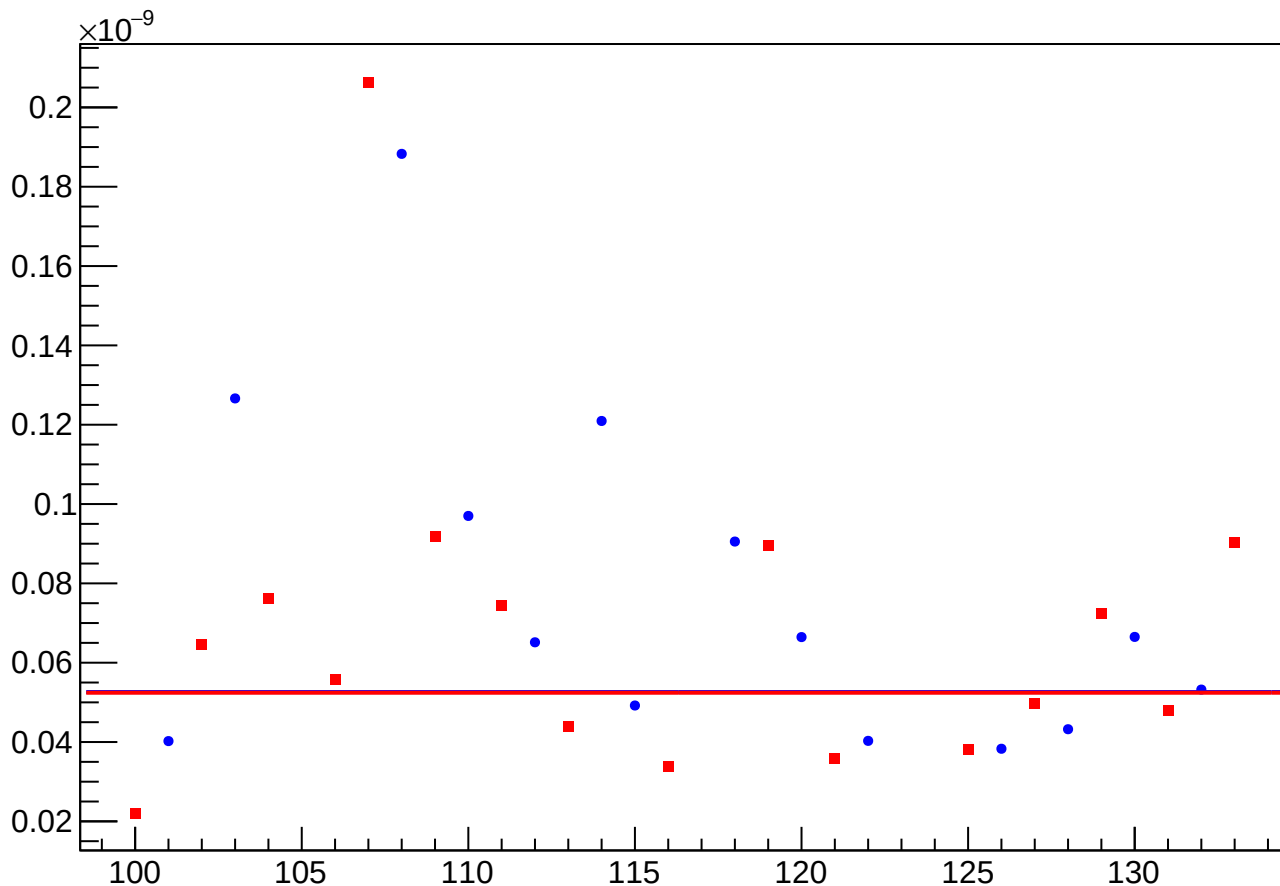
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 862906.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 743527.4/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

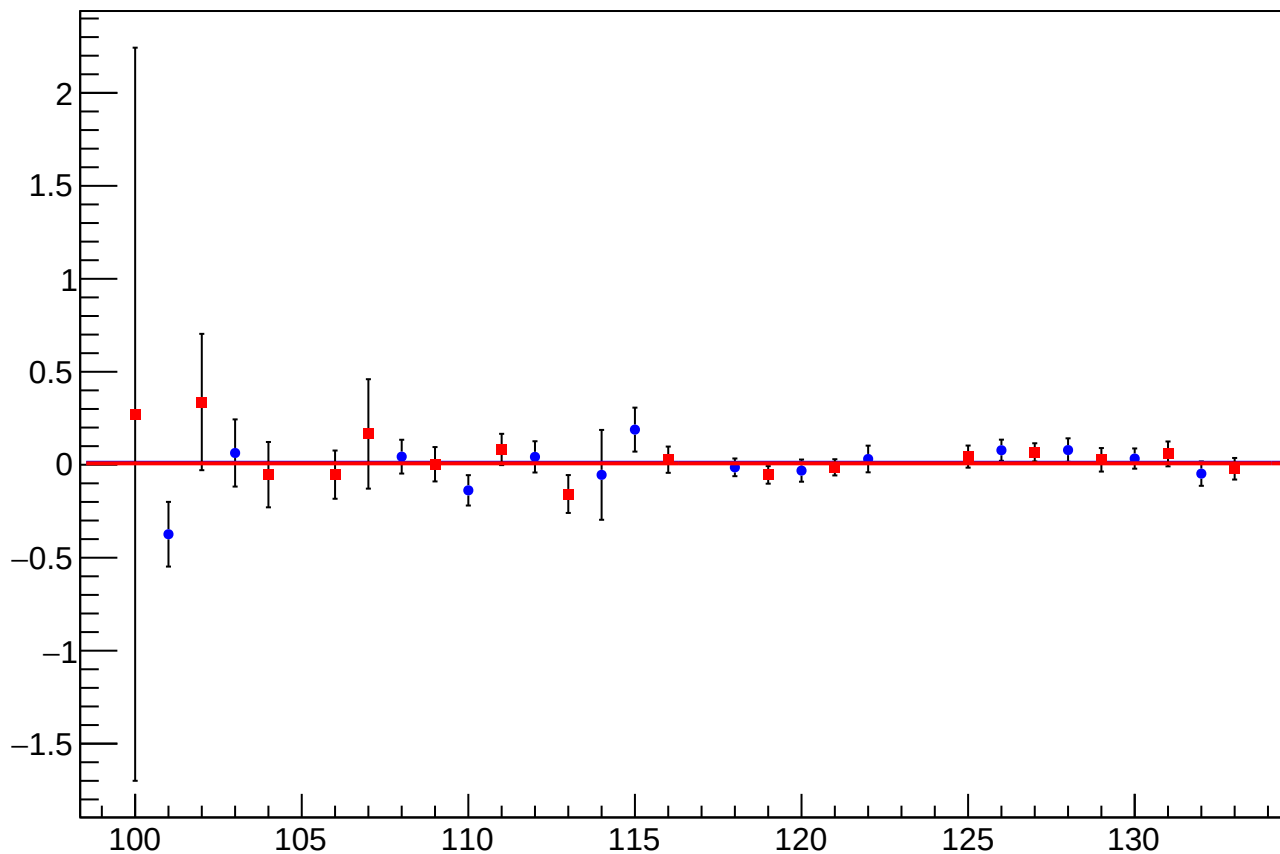
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1606454.5/29

- 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: 0.011 $\pm$ 0.020  $\chi^2$ /NDF: 15.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.008 $\pm$ 0.018  $\chi^2$ /NDF: 9.7/15

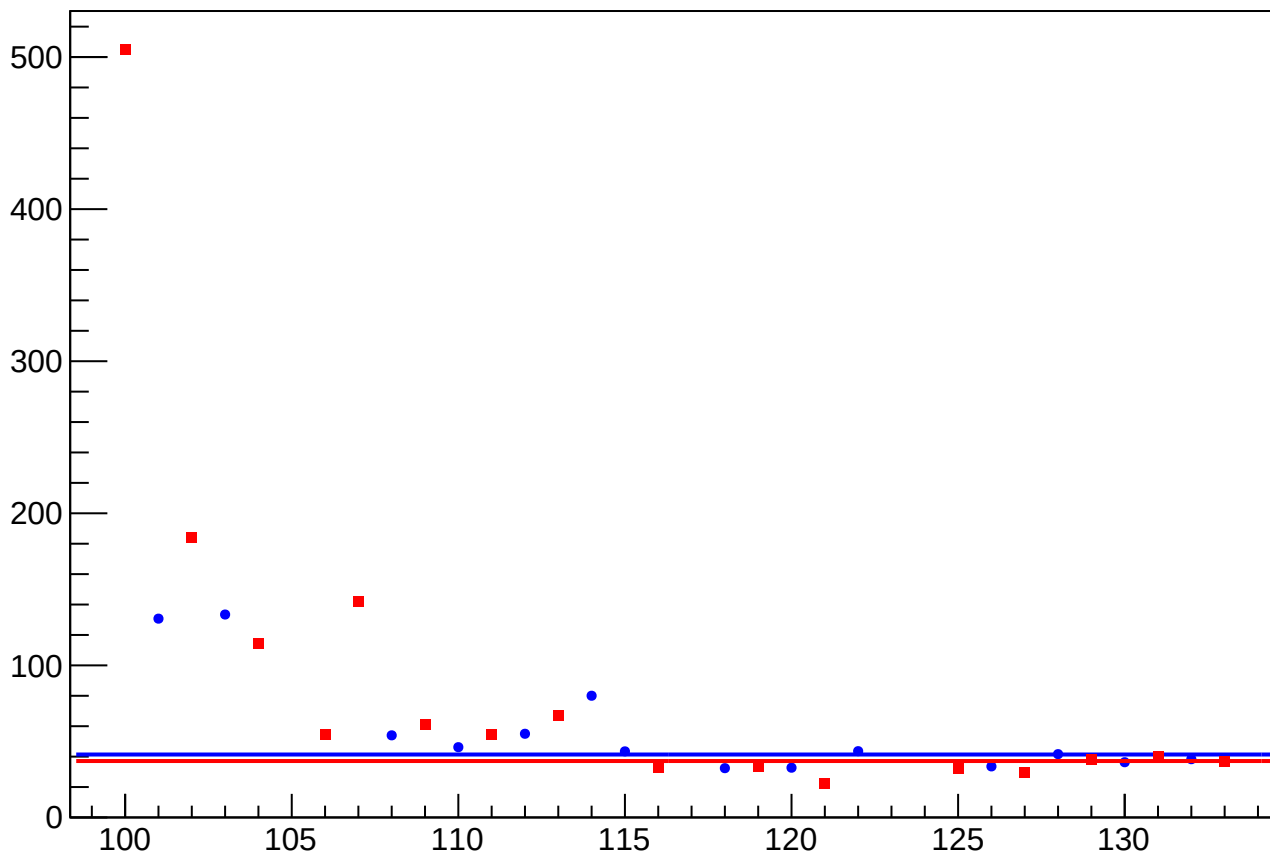
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.013  $\chi^2$ /NDF: 25.0/29

- 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: 41.389 $\pm$ 0.014  $\chi^2$ /NDF: 1371169.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 37.104 $\pm$ 0.013  $\chi^2$ /NDF: 1833436.5/15

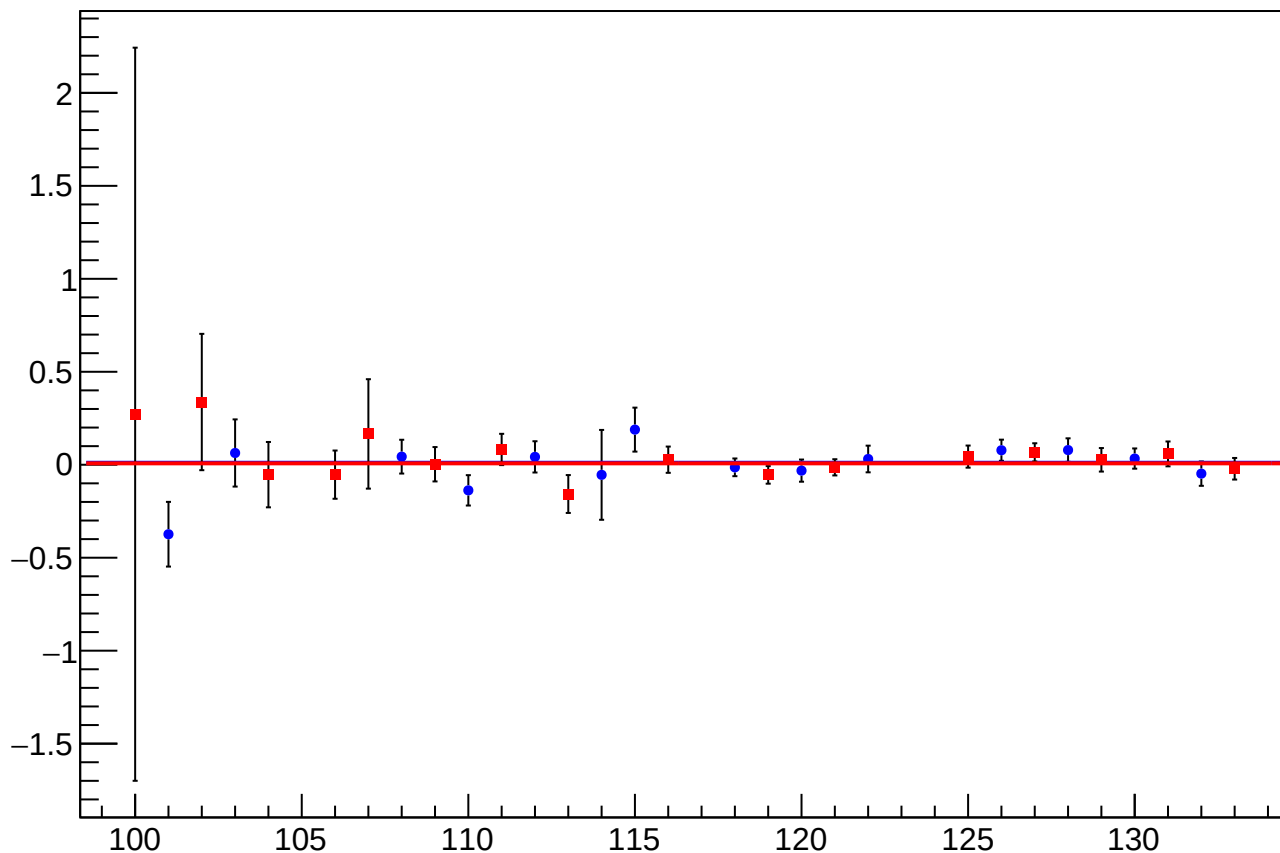
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 39.060 $\pm$ 0.009  $\chi^2$ /NDF: 3256773.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.011 $\pm$ 0.020  $\chi^2$ /NDF: 15.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.008 $\pm$ 0.018  $\chi^2$ /NDF: 9.7/15

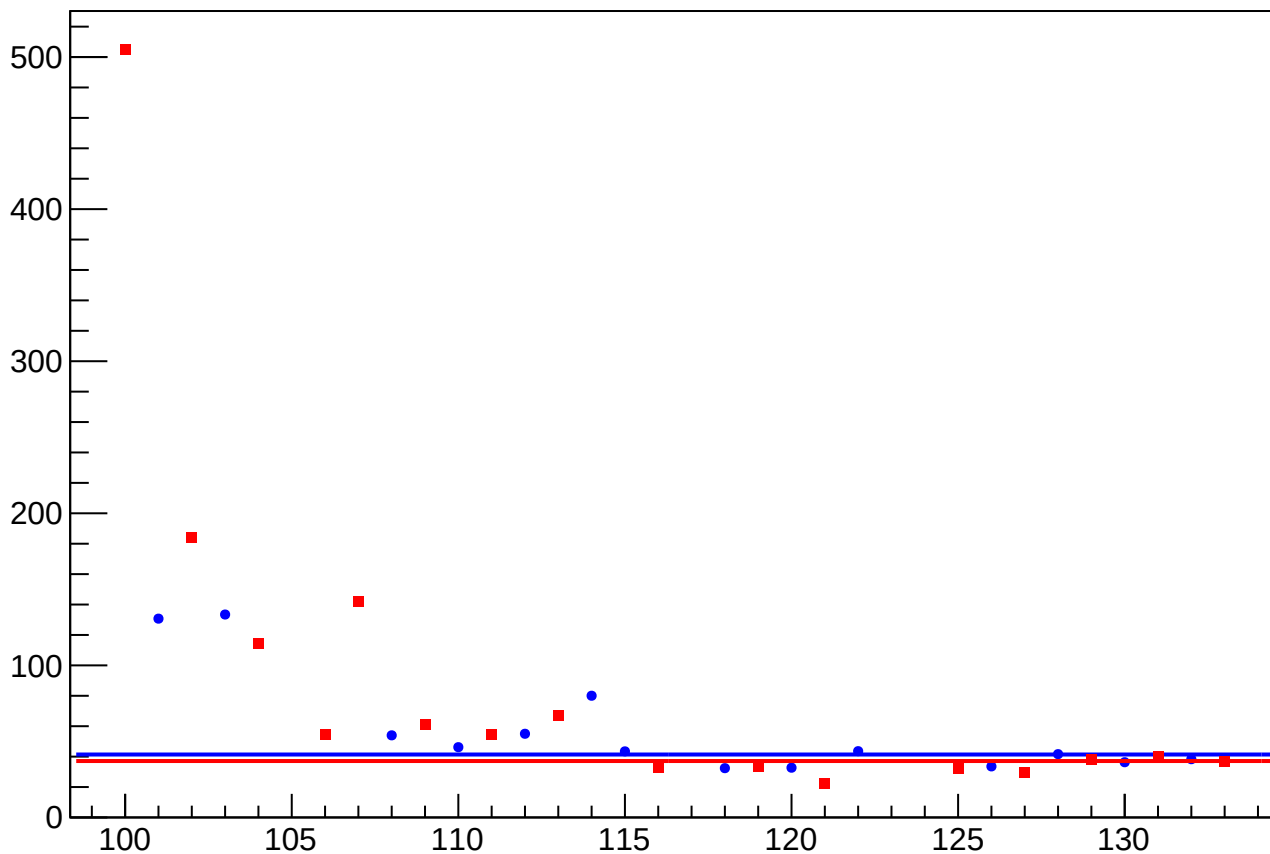
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.013  $\chi^2$ /NDF: 25.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 41.389+/-0.014  $\chi^2/\text{NDF}$ : 1371169.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.104+/-0.013  $\chi^2/\text{NDF}$ : 1833436.5/15

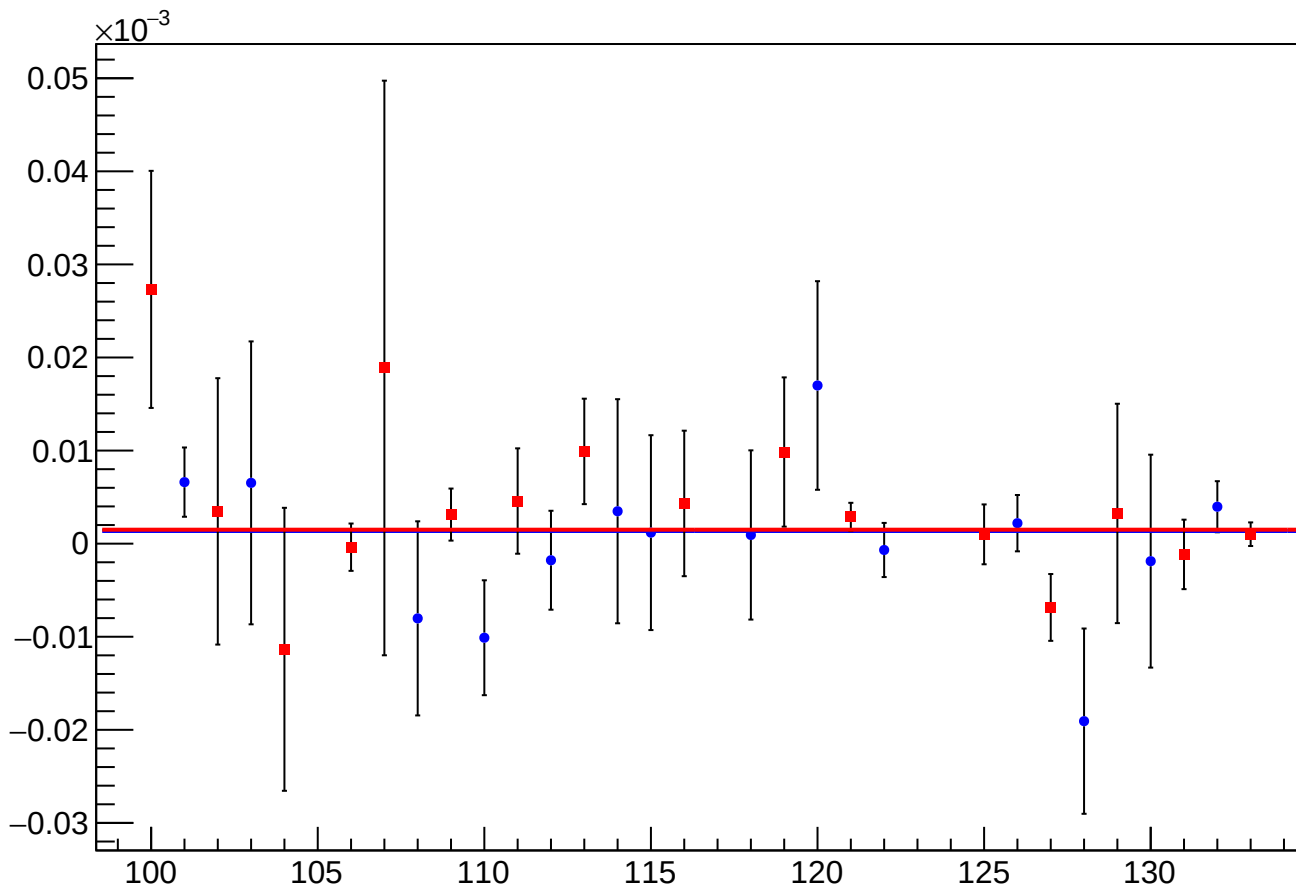
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 39.060+/-0.009  $\chi^2/\text{NDF}$ : 3256773.9/29

- 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: 14.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.7/15

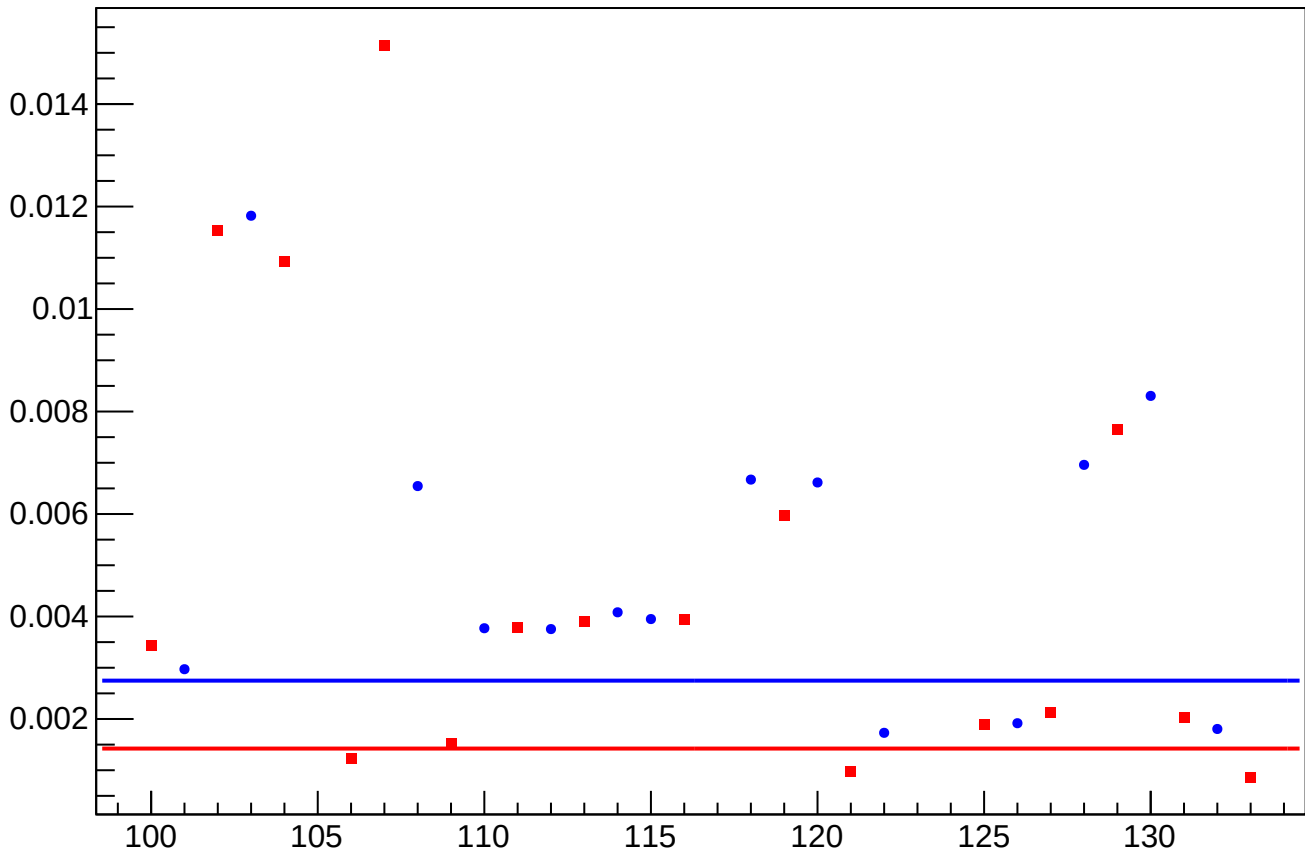
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 31.2/29

- 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: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 3235519.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5129443.8/15

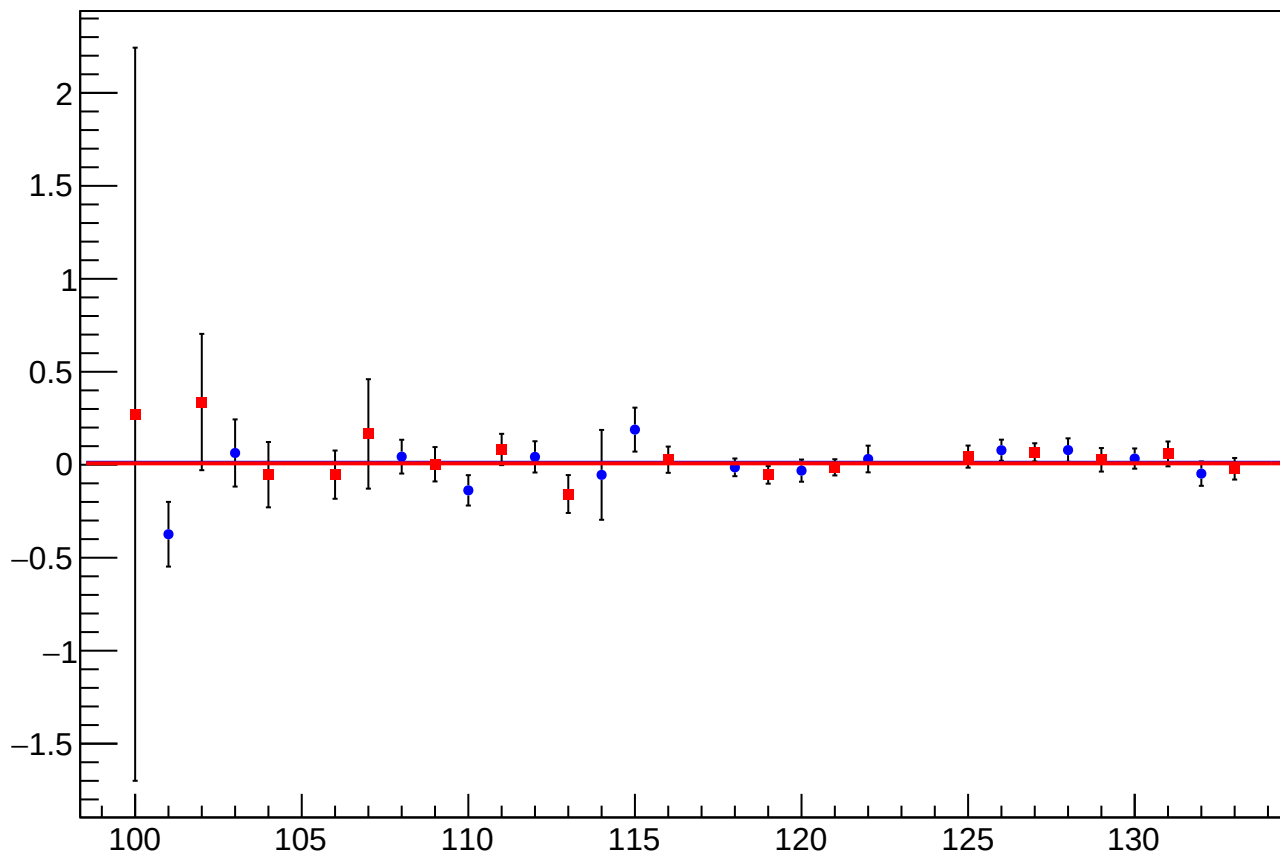
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 9848321.3/29

- 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: 0.011 $\pm$ 0.020  $\chi^2$ /NDF: 15.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.008 $\pm$ 0.018  $\chi^2$ /NDF: 9.7/15

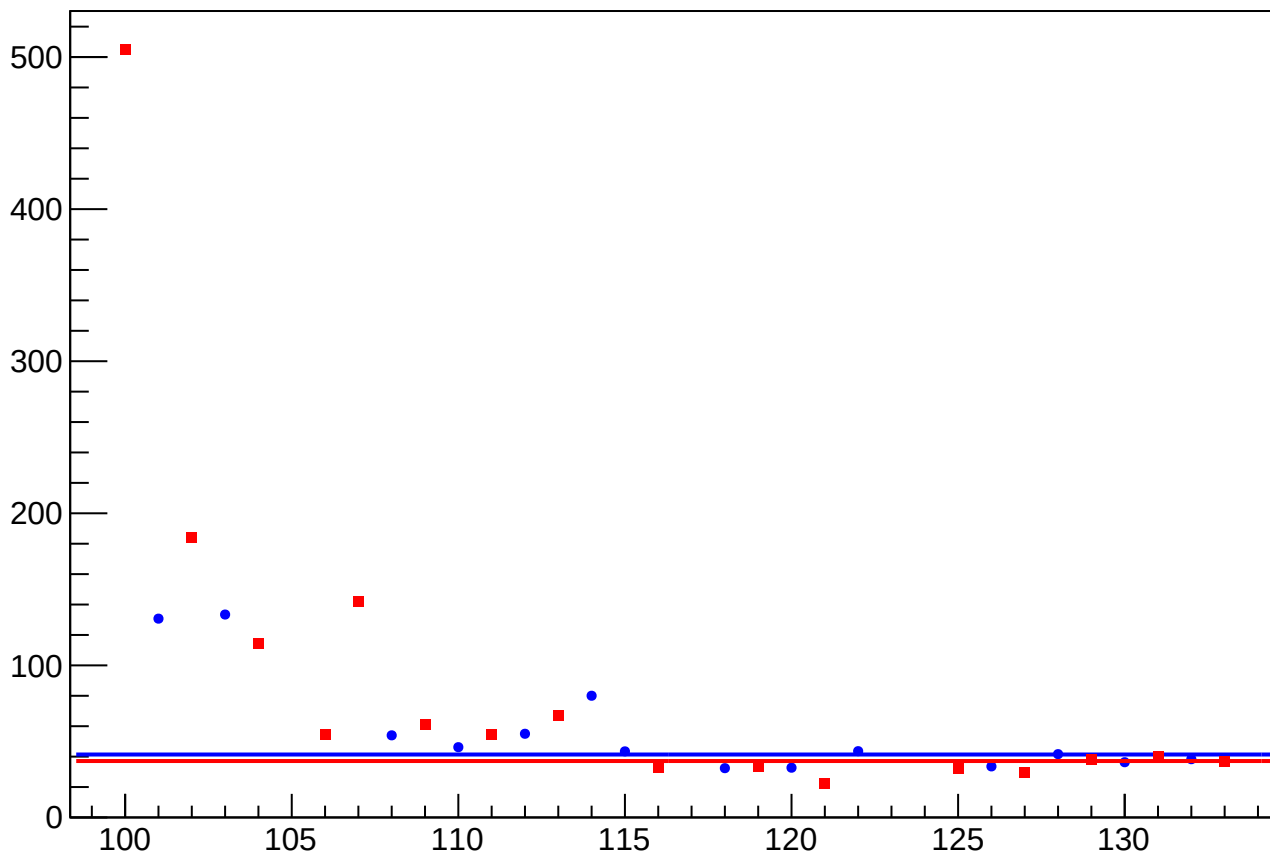
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.013  $\chi^2$ /NDF: 25.0/29

- 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: 41.389+/-0.014  $\chi^2/\text{NDF}$ : 1371072.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.103+/-0.013  $\chi^2/\text{NDF}$ : 1833436.3/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

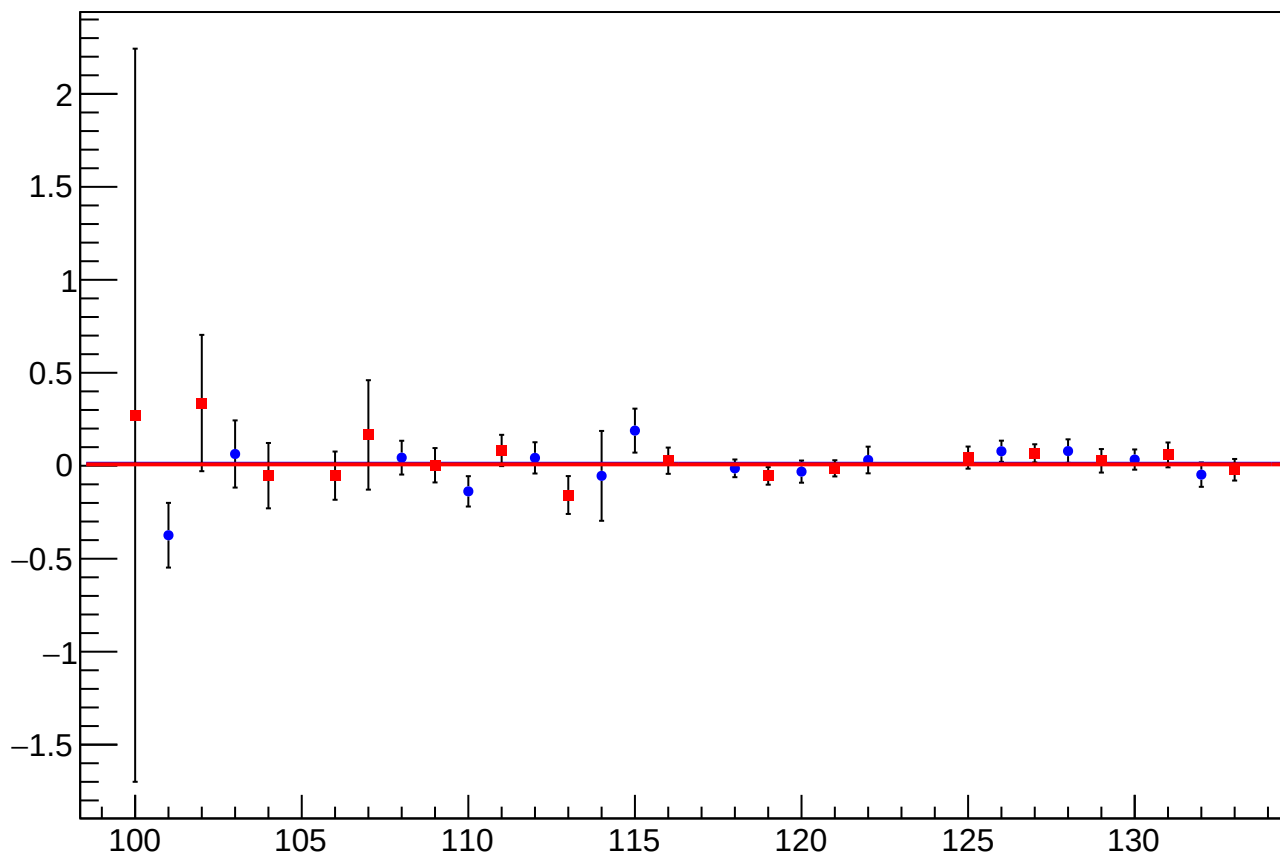
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 39.059+/-0.009  $\chi^2/\text{NDF}$ : 3256717.0/29

- 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: 0.011 $\pm$ 0.020  $\chi^2$ /NDF: 15.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.008 $\pm$ 0.018  $\chi^2$ /NDF: 9.7/15

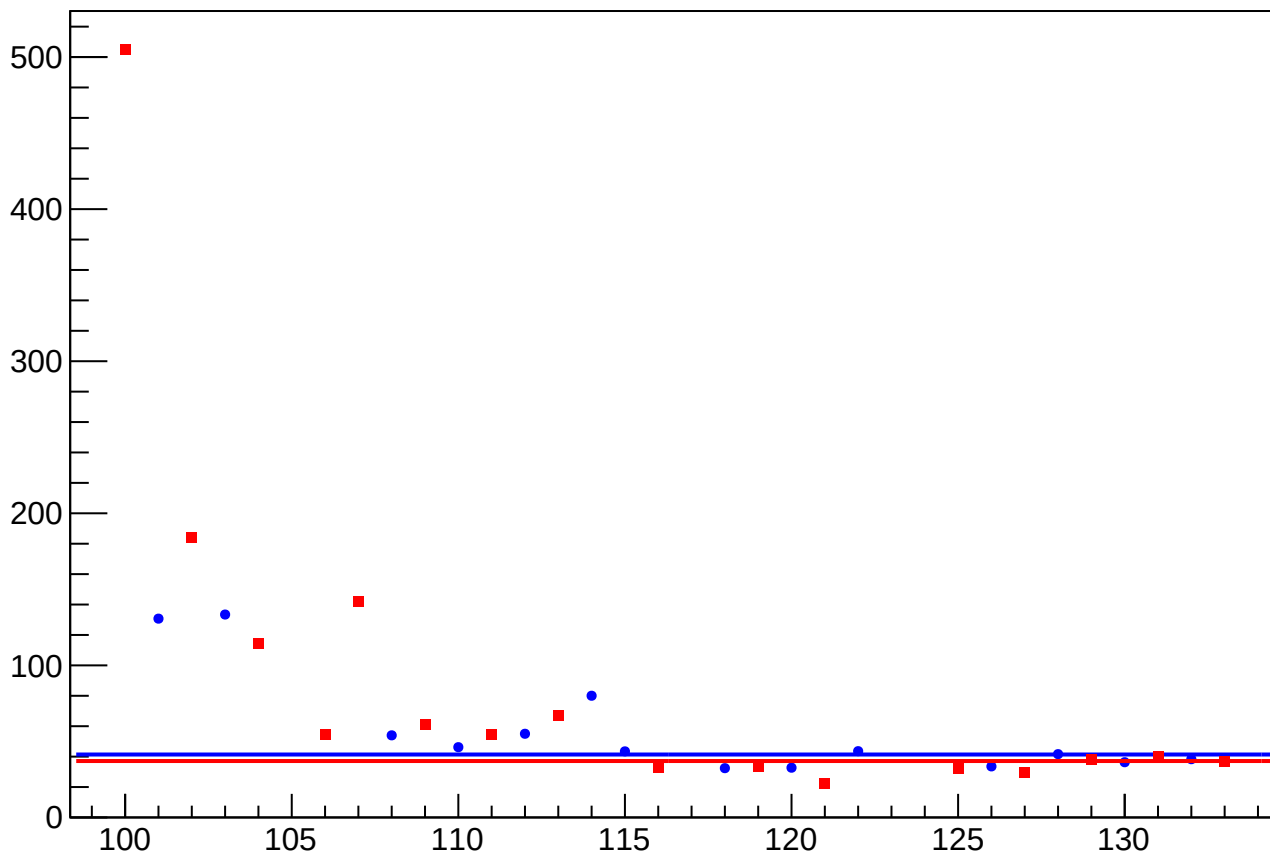
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.013  $\chi^2$ /NDF: 25.0/29

- 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: 41.389+/-0.014  $\chi^2/\text{NDF}$ : 1371072.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.103+/-0.013  $\chi^2/\text{NDF}$ : 1833436.3/15

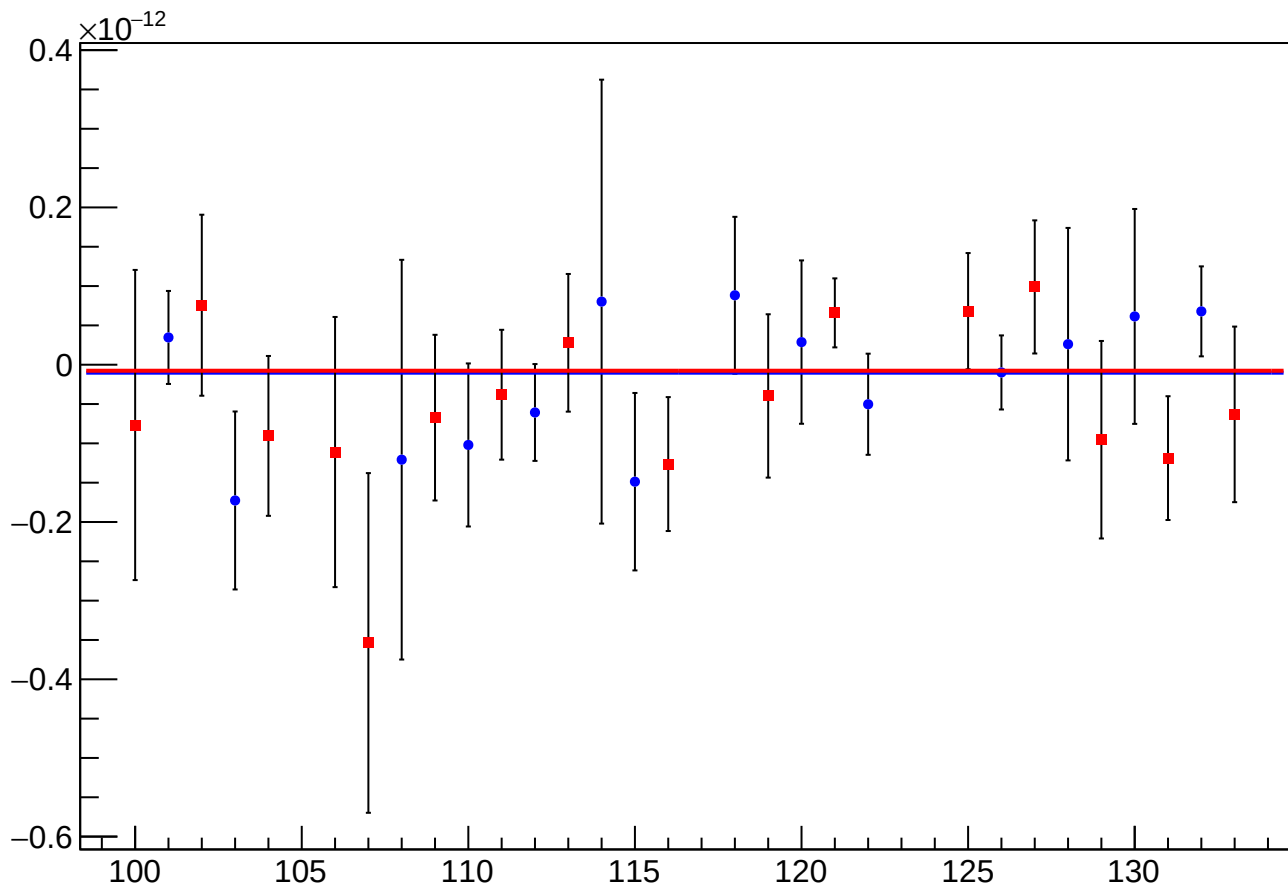
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 39.059+/-0.009  $\chi^2/\text{NDF}$ : 3256717.0/29

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 9.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.1/15

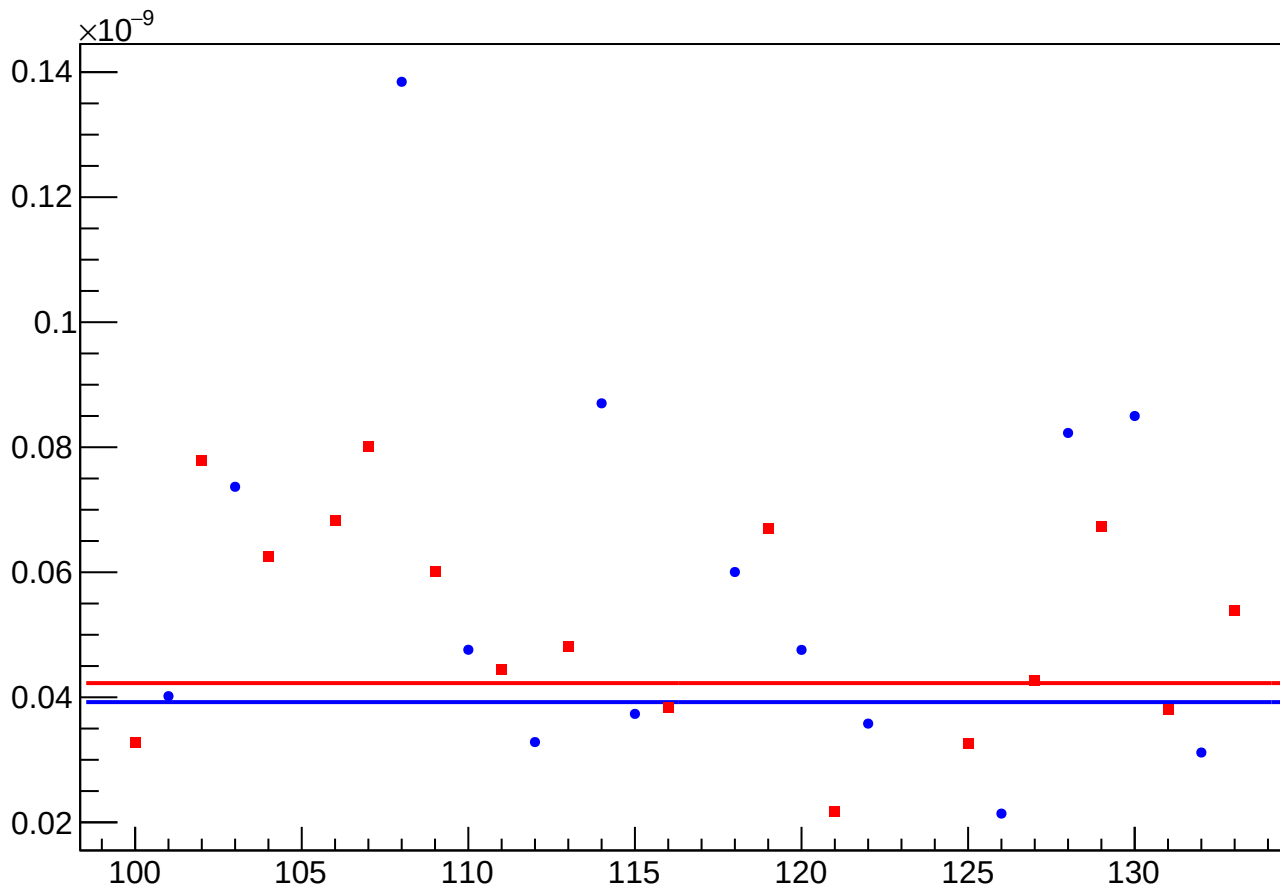
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 24.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1409603.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1150149.5/15

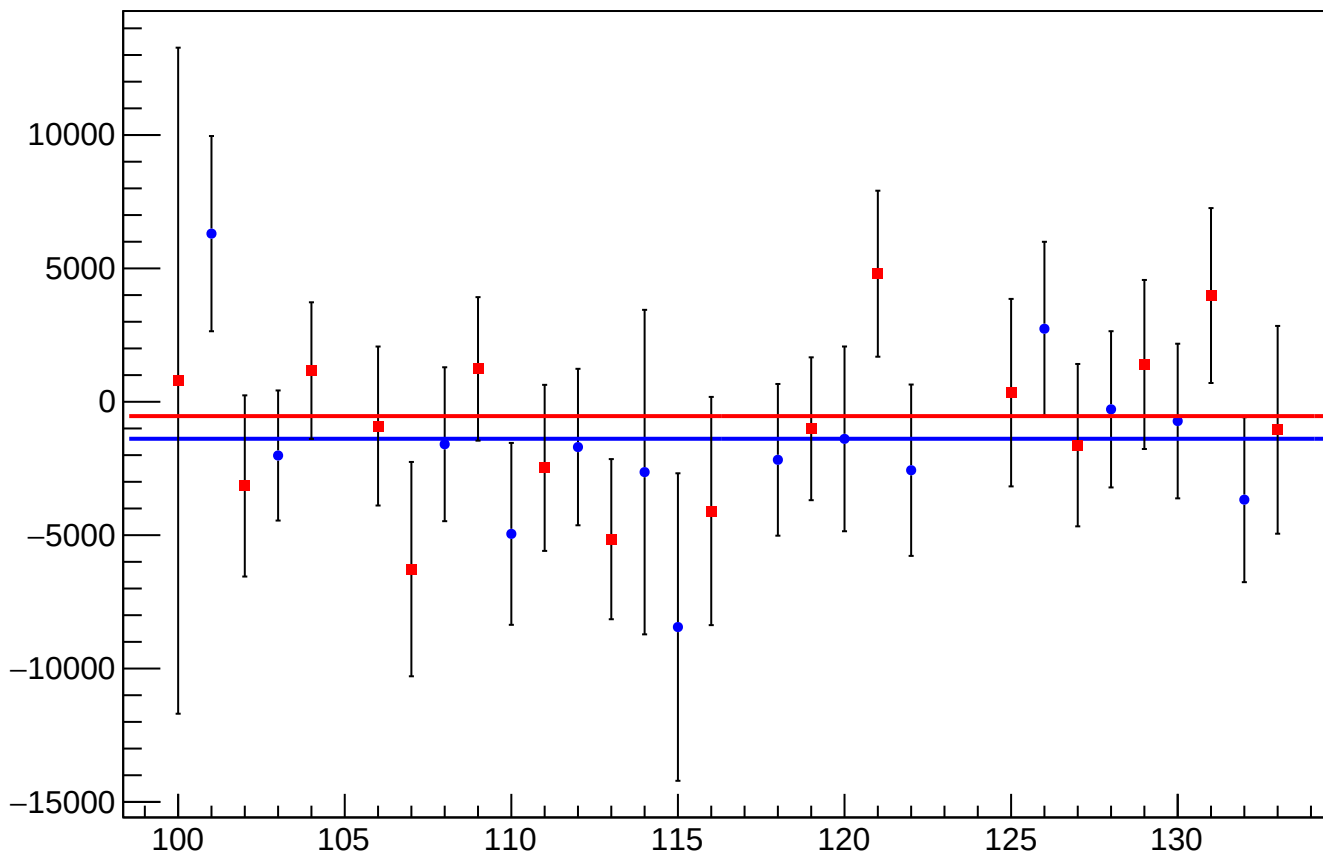
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2578763.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1386.401+/-857.263  $\chi^2/\text{NDF}$ : 9.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -536.729+/-811.811  $\chi^2/\text{NDF}$ : 12.4/15

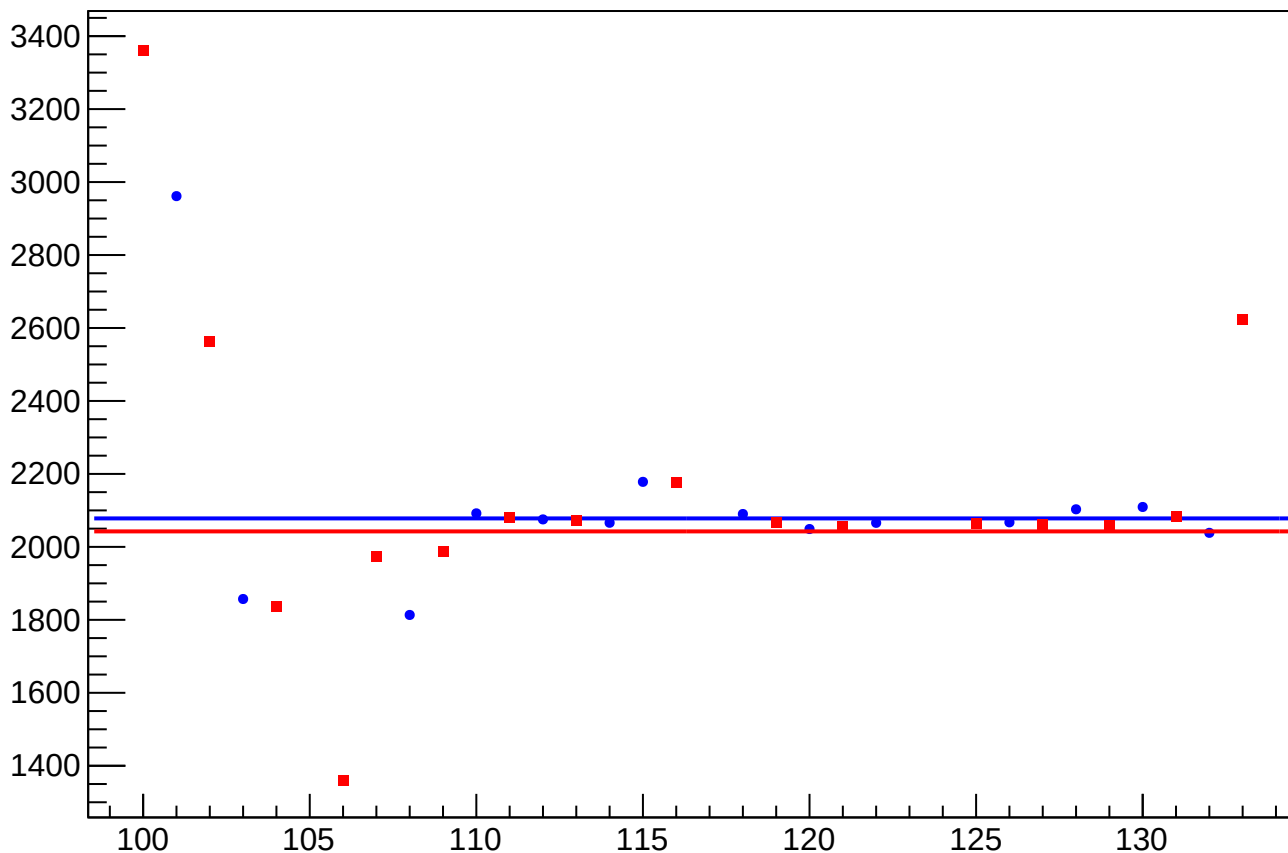
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -938.444+/-589.451  $\chi^2/\text{NDF}$ : 22.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2078.048 $\pm$ 0.606  $\chi^2$ /NDF: 151376.5/13

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

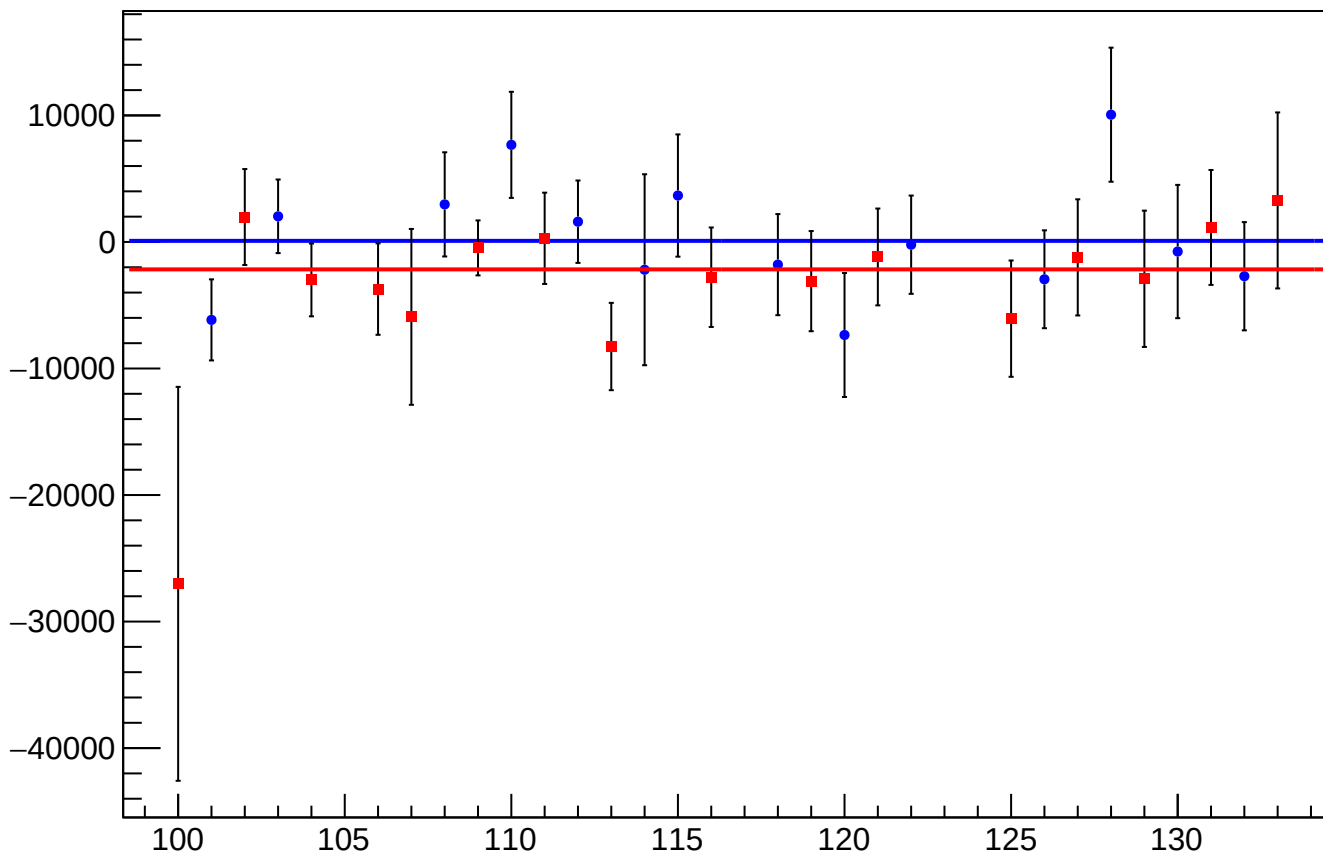
Right Out: 2042.443 $\pm$ 0.574  $\chi^2$ /NDF: 235728.2/15

All: 2059.276 $\pm$ 0.417  $\chi^2$ /NDF: 388923.6/29

- 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\_reg\_correction\_mean vs Slug



Right In: 86.968+/-1084.530  $\chi^2/\text{NDF}$ : 16.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2167.400+/-971.324  $\chi^2/\text{NDF}$ : 10.6/15

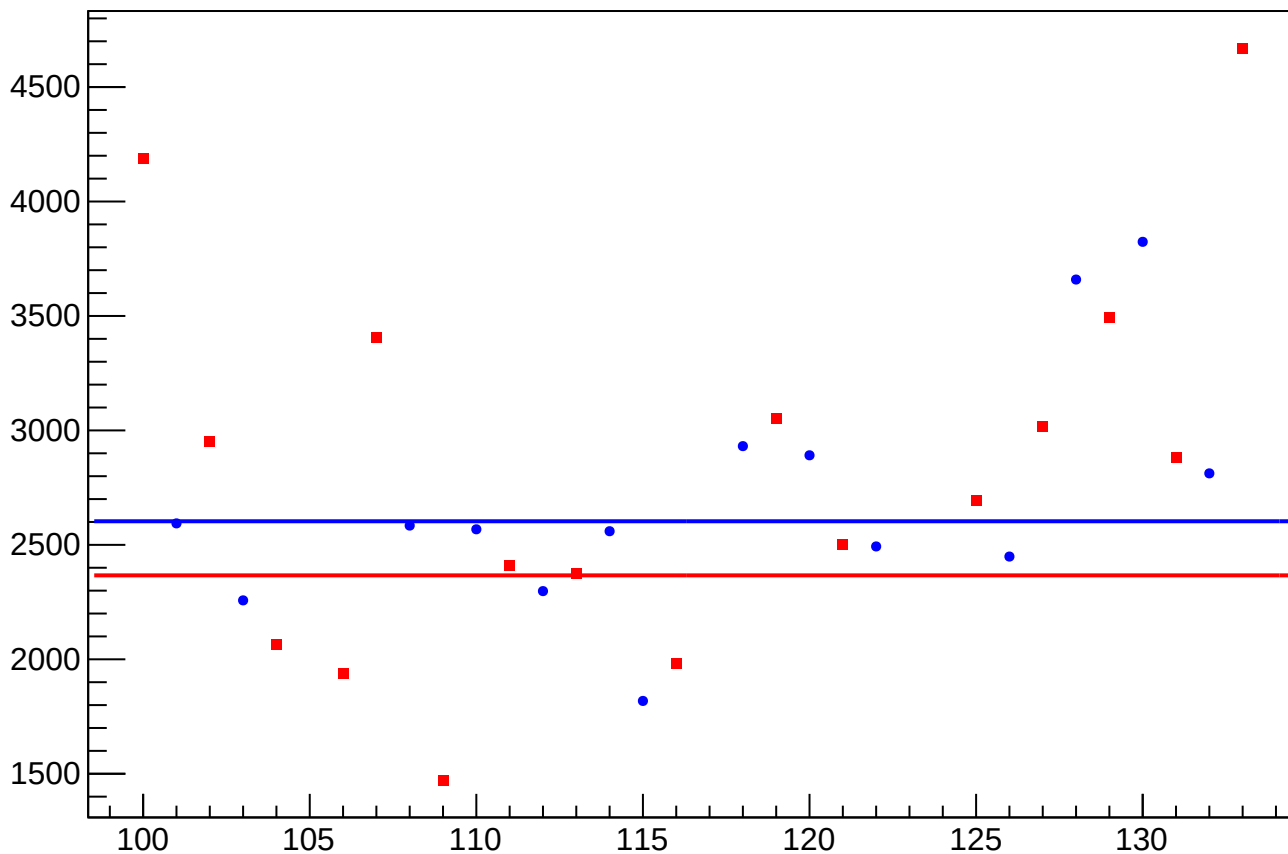
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1163.979+/-723.554  $\chi^2/\text{NDF}$ : 29.0/29

- 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: 2603.081+/-0.767  $\chi^2/\text{NDF}$ : 315803.3/13

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: 2366.745+/-0.687  $\chi^2/\text{NDF}$ : 973475.4/15

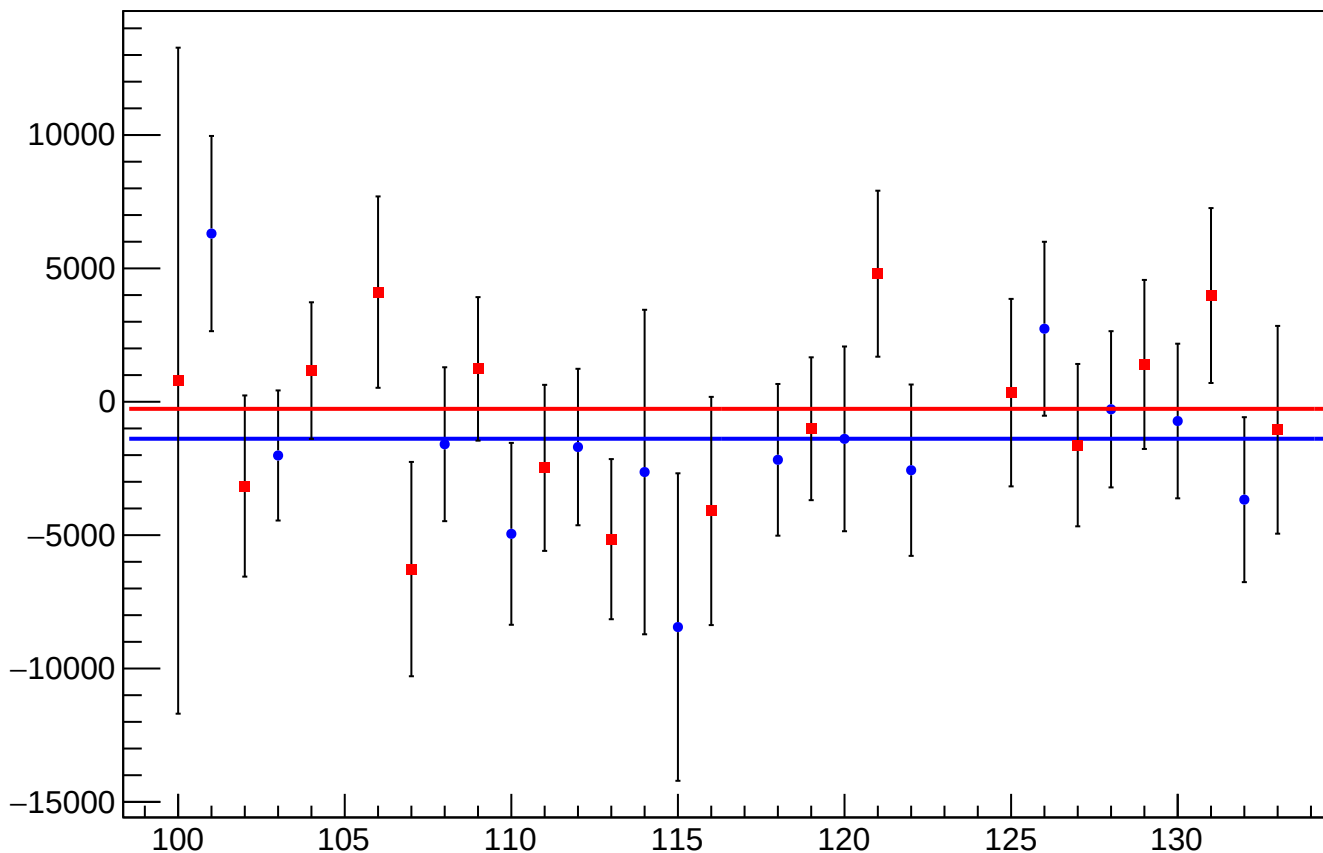
All: 2471.938+/-0.512  $\chi^2/\text{NDF}$ : 1341979.7/29

- 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\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1386.216+/-857.263  $\chi^2/\text{NDF}$ : 9.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -265.102+/-821.312  $\chi^2/\text{NDF}$ : 14.0/15

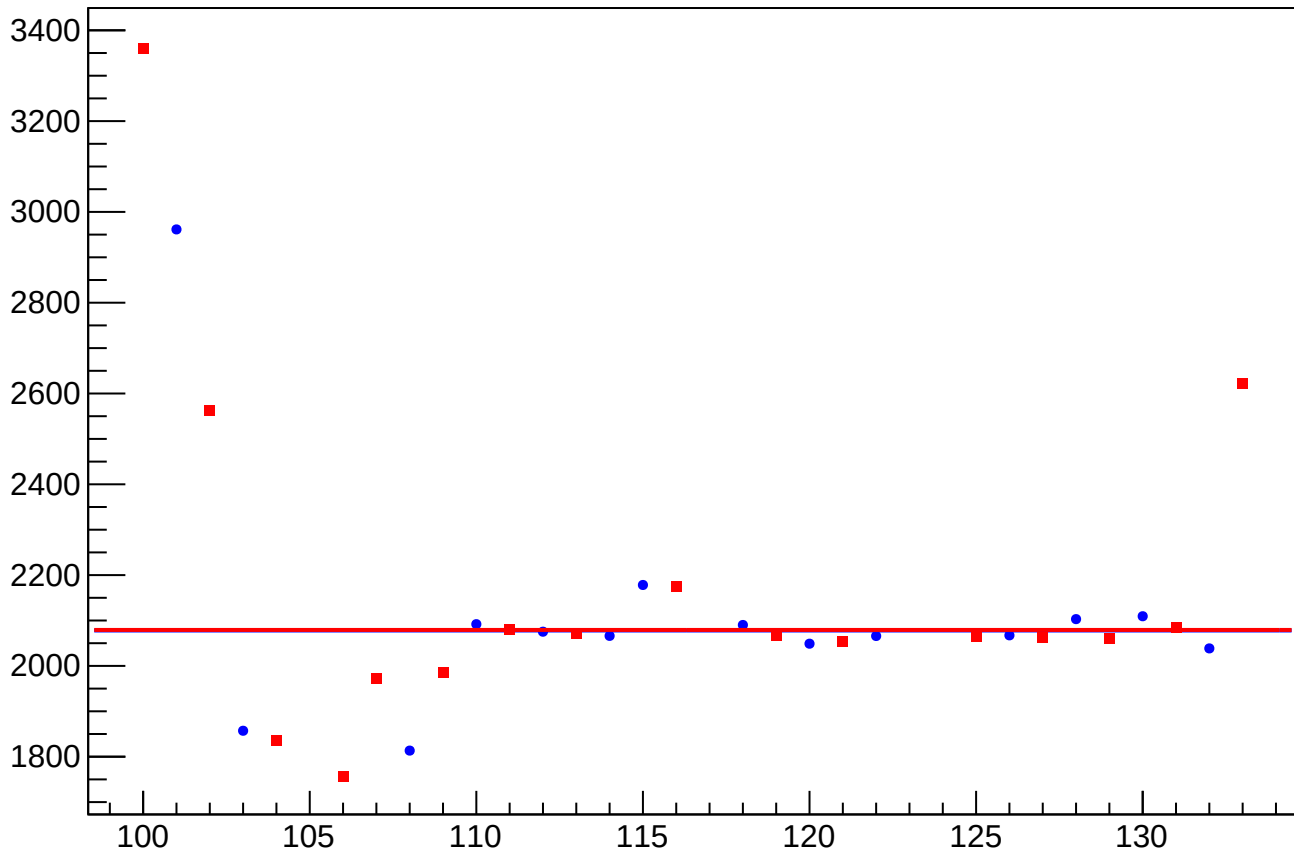
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -801.659+/-593.058  $\chi^2/\text{NDF}$ : 24.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2078.048+/-0.606  $\chi^2/\text{NDF}$ : 151376.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2079.206+/-0.581  $\chi^2/\text{NDF}$ : 139843.4/15

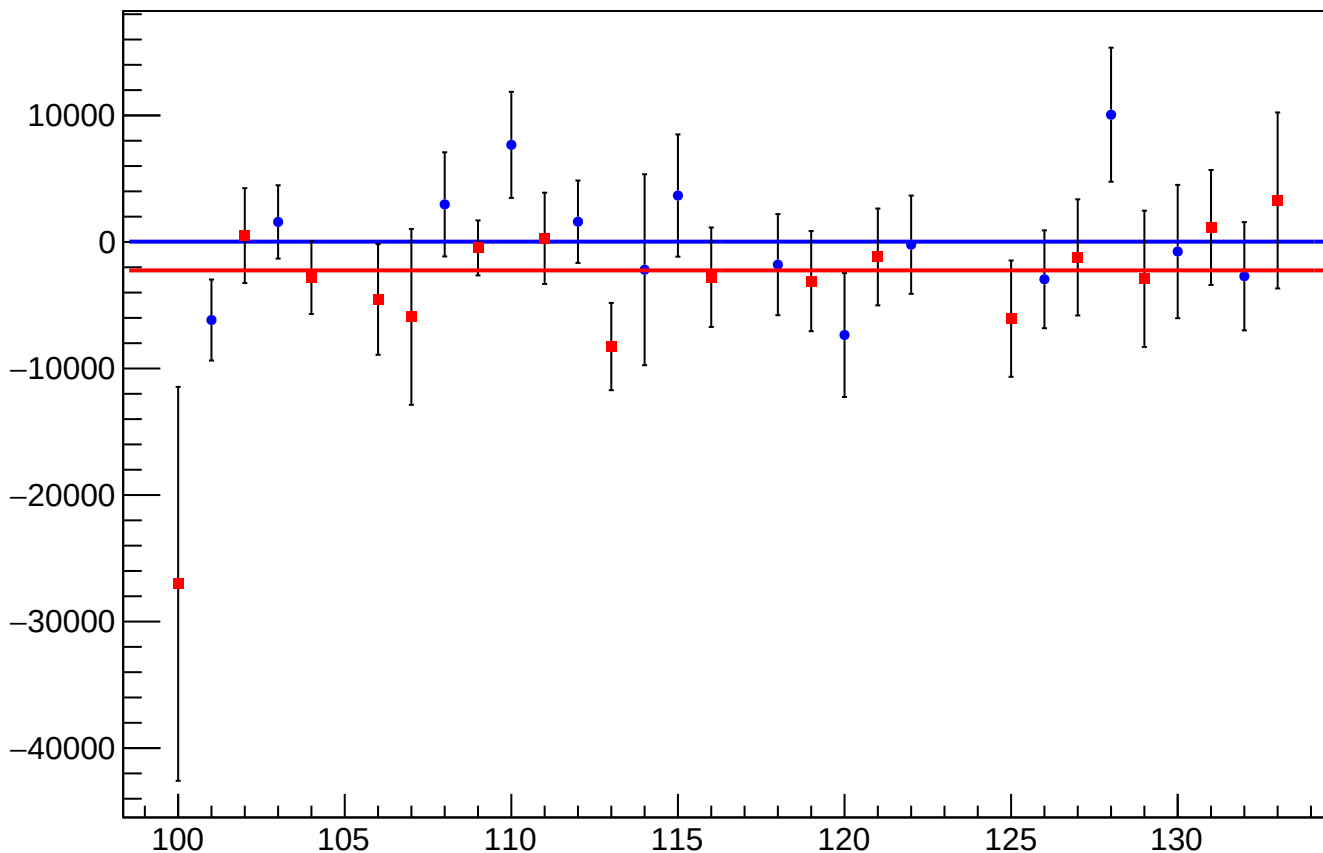
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2078.652+/-0.419  $\chi^2/\text{NDF}$ : 291222.1/29

- 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: 25.111+/-1083.947  $\chi^2/\text{NDF}$ : 15.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2246.523+/-981.635  $\chi^2/\text{NDF}$ : 10.0/15

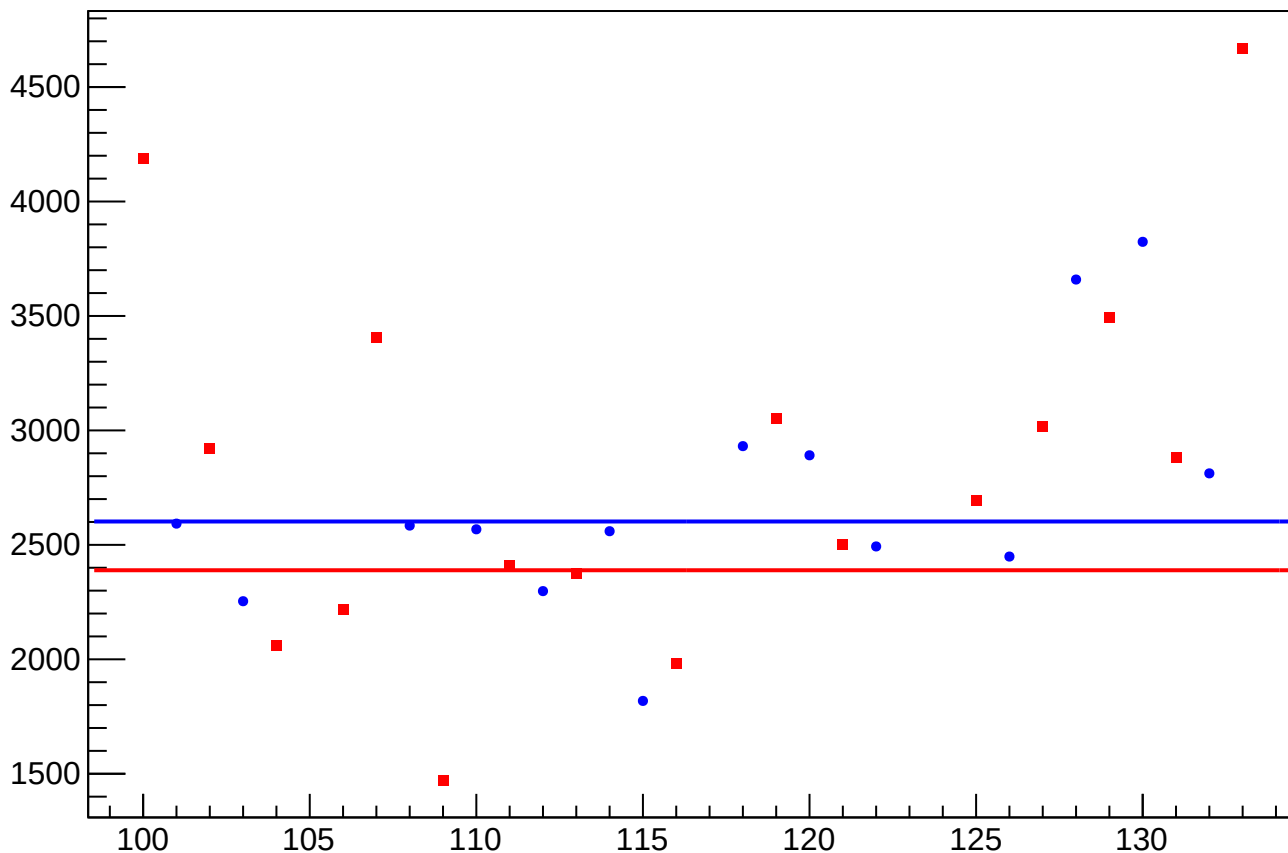
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1222.949+/-727.610  $\chi^2/\text{NDF}$ : 28.2/29

- 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: 2602.113+/-0.766  $\chi^2/\text{NDF}$ : 316603.0/13

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

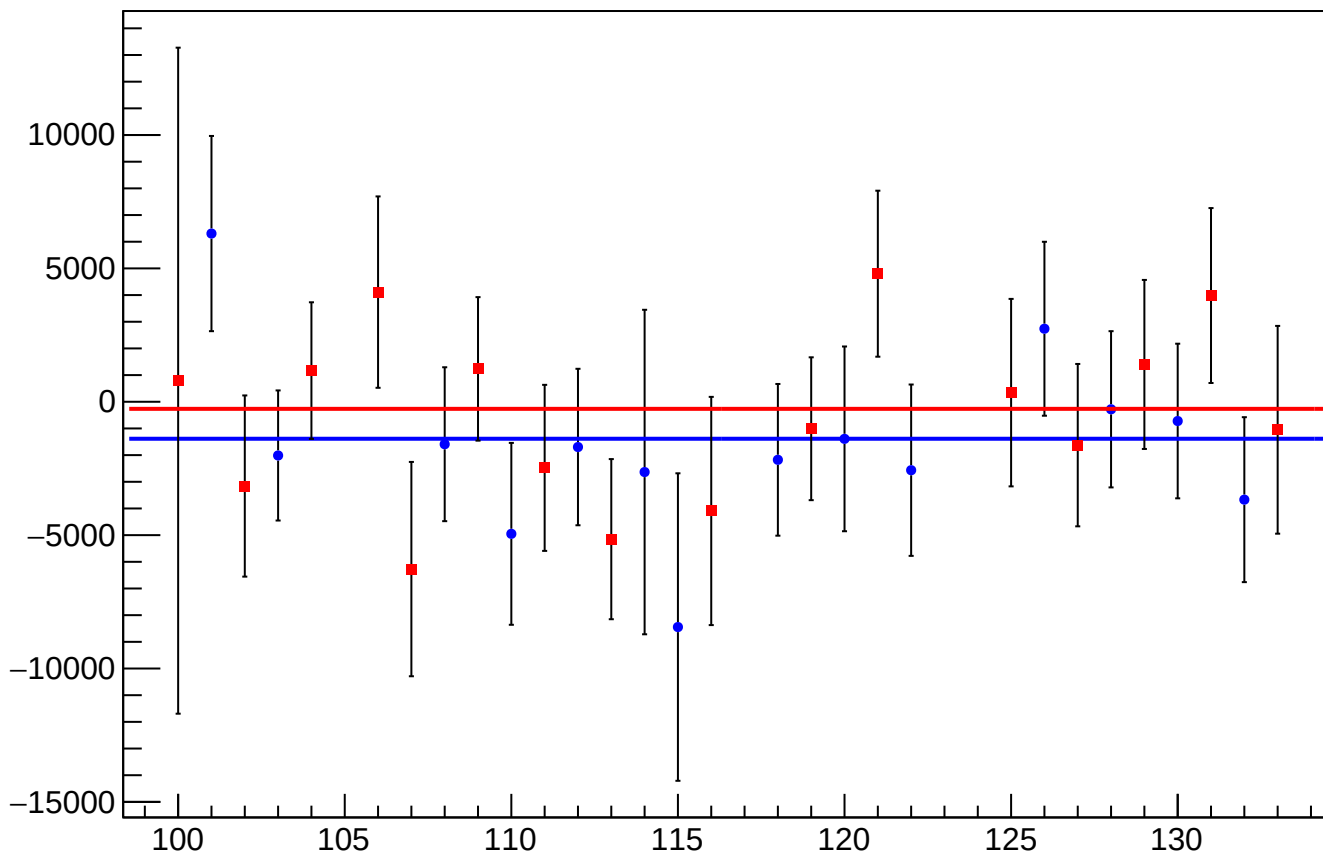
Right Out: 2389.099+/-0.694  $\chi^2/\text{NDF}$ : 943524.9/15

All: 2485.081+/-0.514  $\chi^2/\text{NDF}$ : 1302563.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1386.216+/-857.263  $\chi^2/\text{NDF}$ : 9.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -265.102+/-821.312  $\chi^2/\text{NDF}$ : 14.0/15

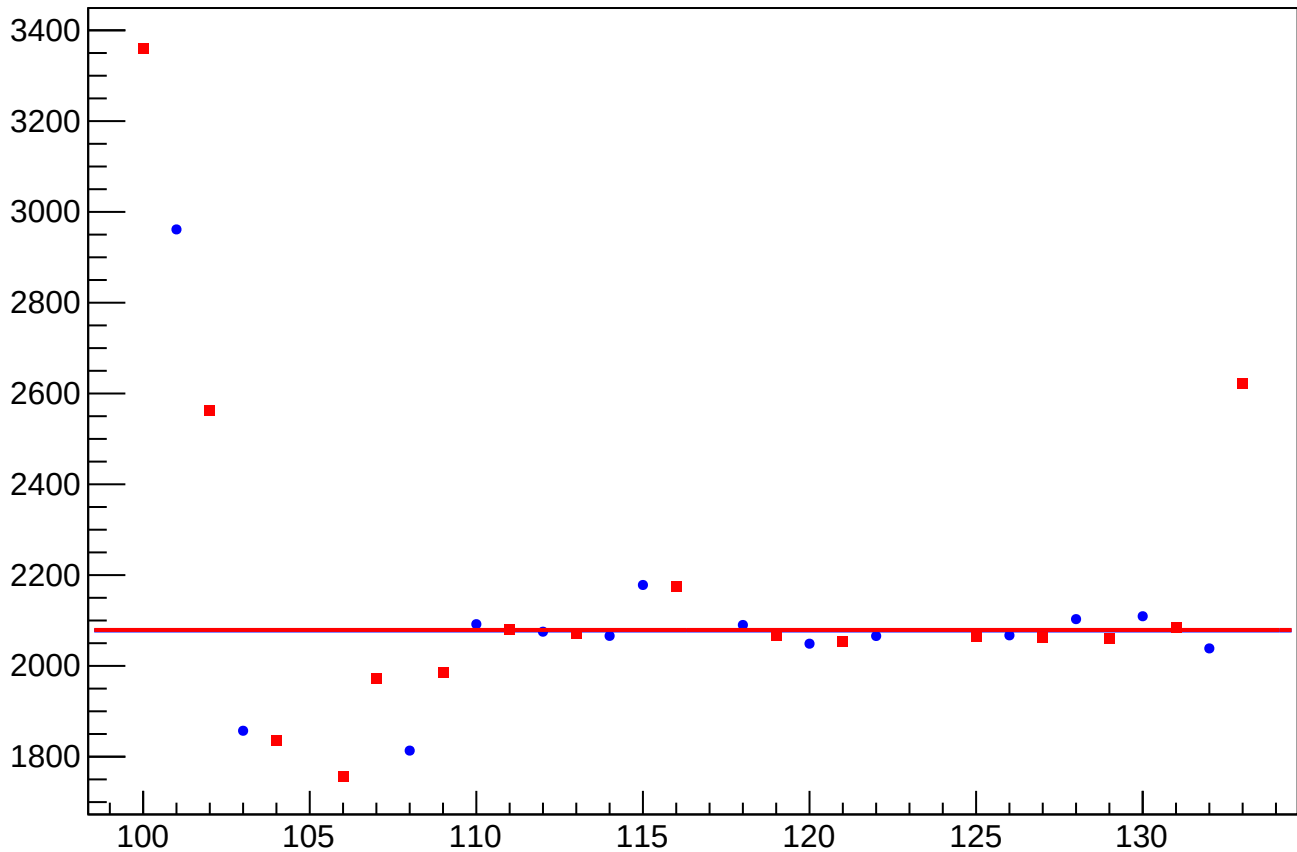
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -801.659+/-593.058  $\chi^2/\text{NDF}$ : 24.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2078.048+/-0.606  $\chi^2/\text{NDF}$ : 151376.8/13

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

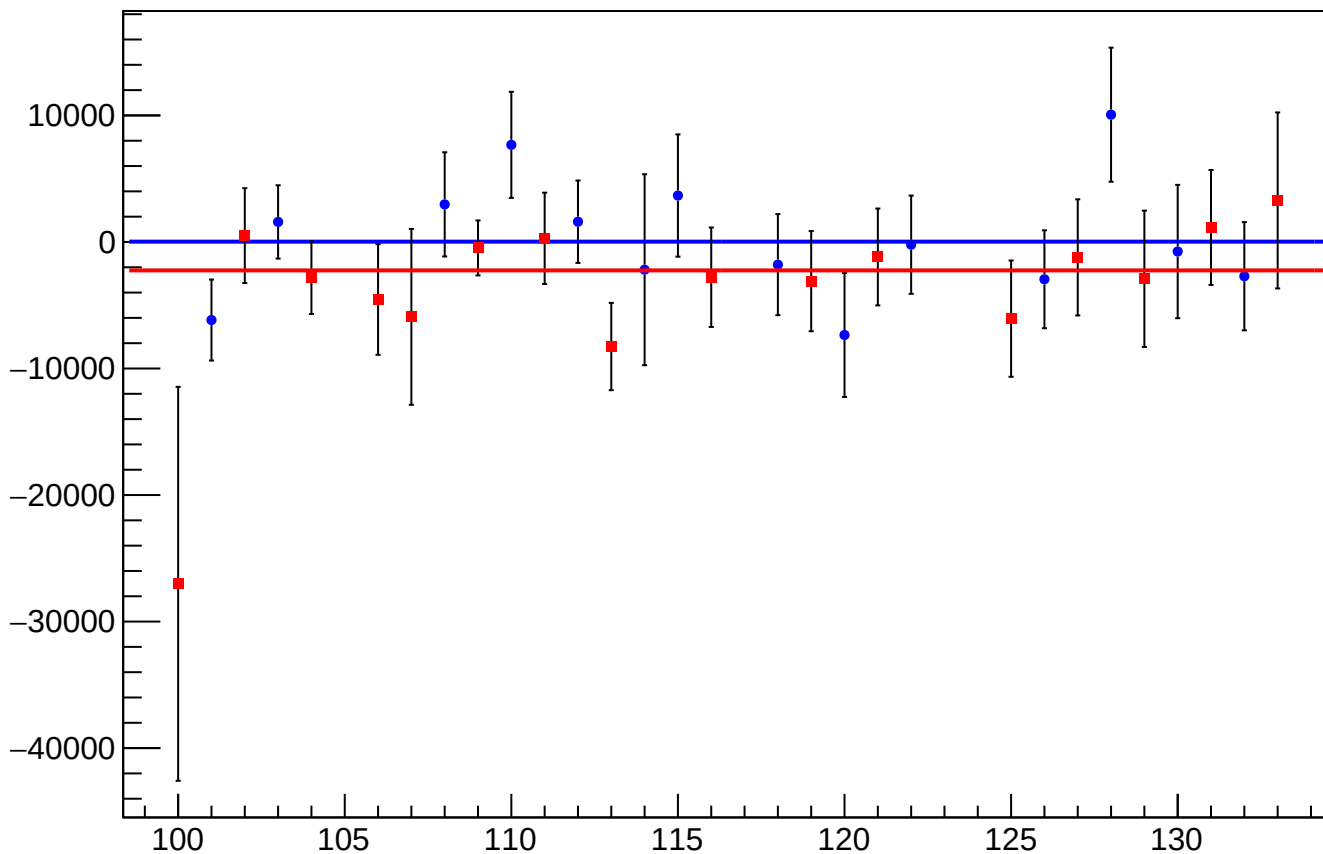
Right Out: 2079.206+/-0.581  $\chi^2/\text{NDF}$ : 139843.4/15

All: 2078.652+/-0.419  $\chi^2/\text{NDF}$ : 291222.1/29

- 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\_at2lr\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 25.111+/-1083.947  $\chi^2/\text{NDF}$ : 15.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2246.523+/-981.635  $\chi^2/\text{NDF}$ : 10.0/15

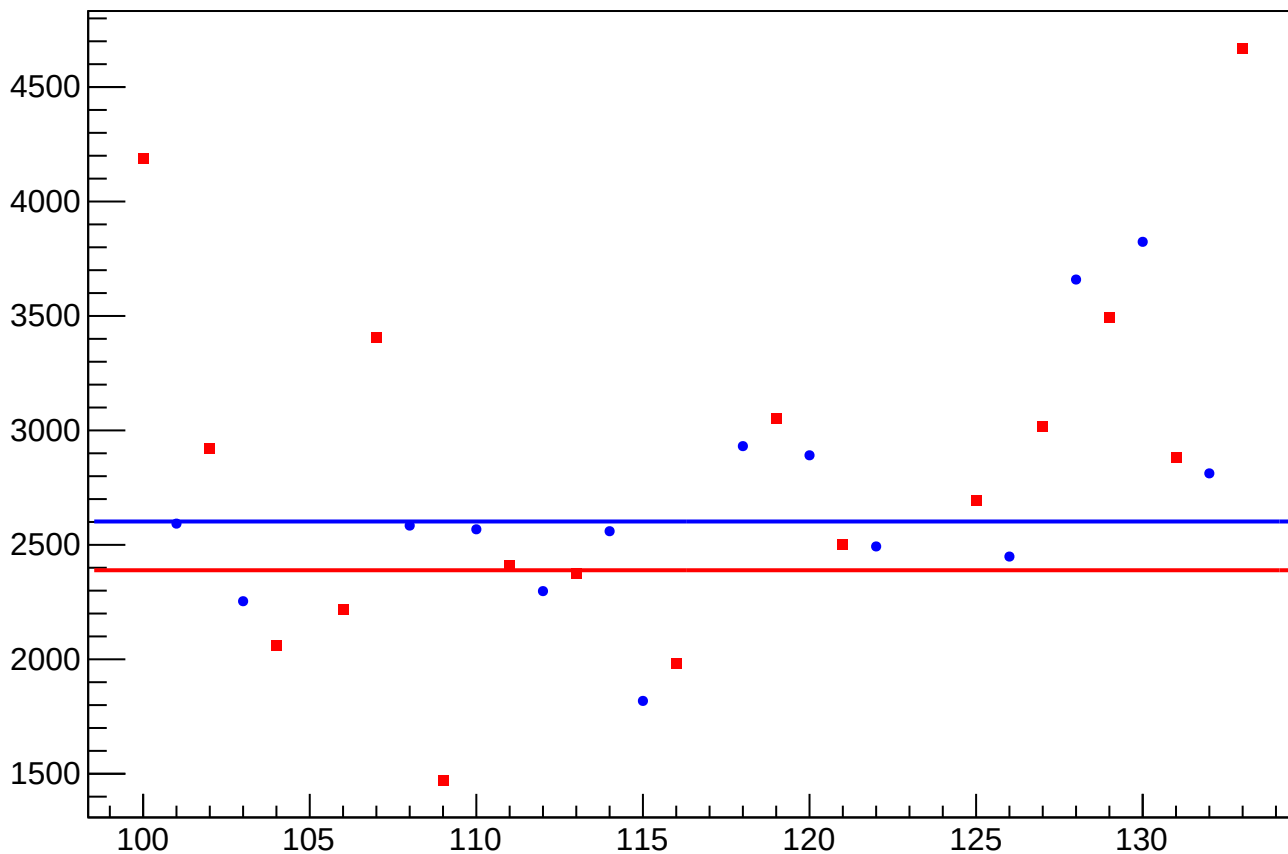
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1222.949+/-727.610  $\chi^2/\text{NDF}$ : 28.2/29

- 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: 2602.113+/-0.766  $\chi^2/\text{NDF}$ : 316603.0/13

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: 2389.099+/-0.694  $\chi^2/\text{NDF}$ : 943524.9/15

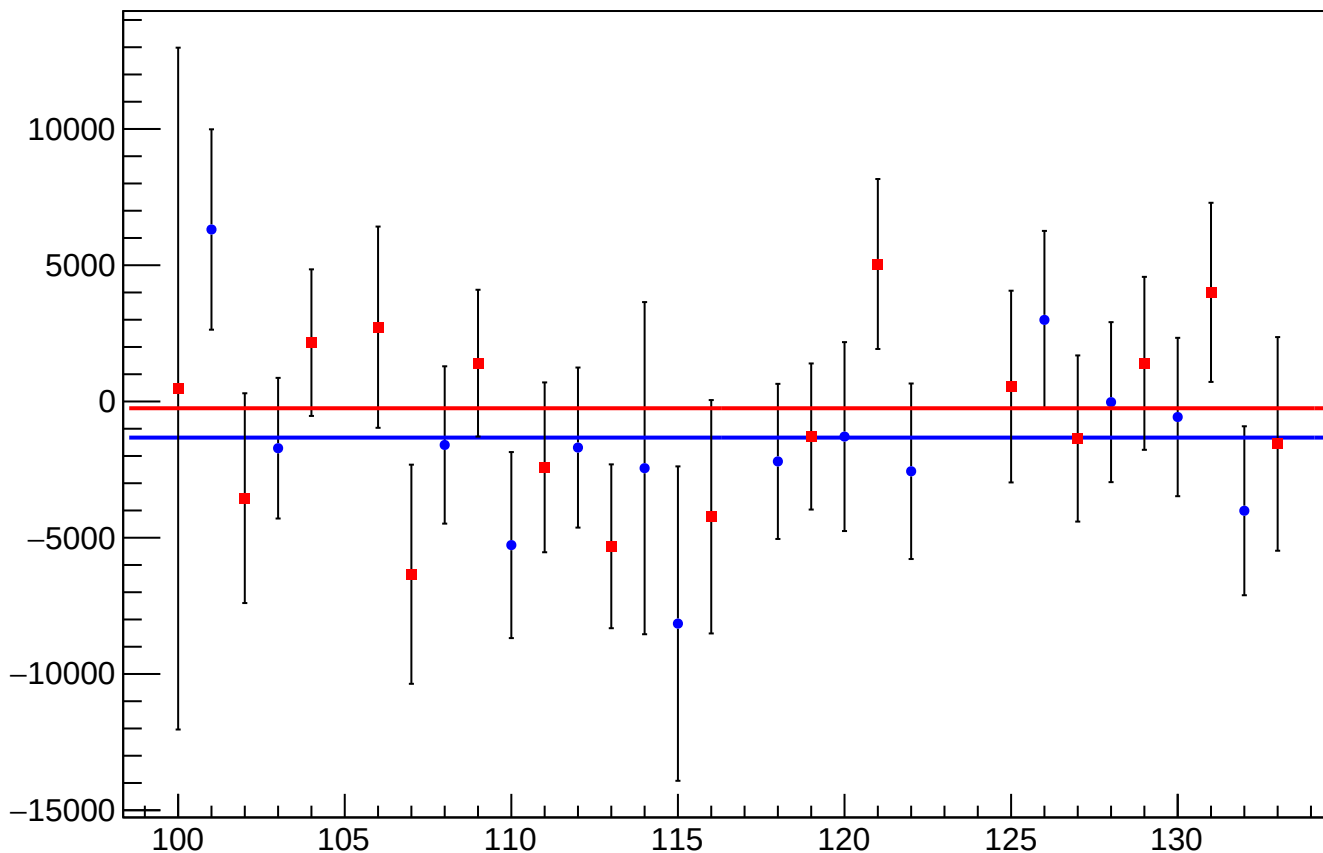
All: 2485.081+/-0.514  $\chi^2/\text{NDF}$ : 1302563.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In:  $-1325.395 \pm 864.474$   $\chi^2/\text{NDF}$ : 10.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-248.411 \pm 833.202$   $\chi^2/\text{NDF}$ : 14.3/15

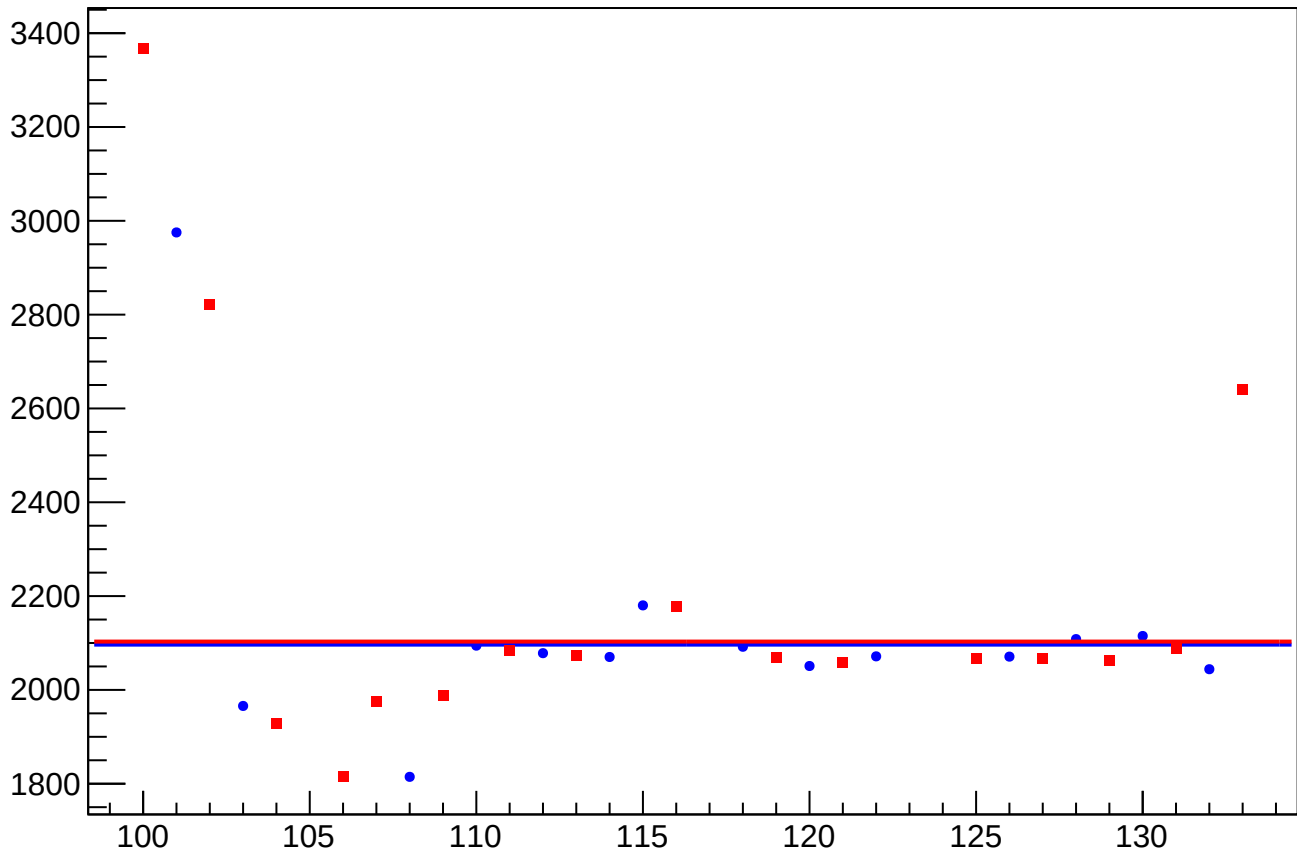
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-767.071 \pm 599.914$   $\chi^2/\text{NDF}$ : 25.3/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2096.528+/-0.611  $\chi^2/\text{NDF}$ : 140235.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2103.037+/-0.589  $\chi^2/\text{NDF}$ : 156199.8/15

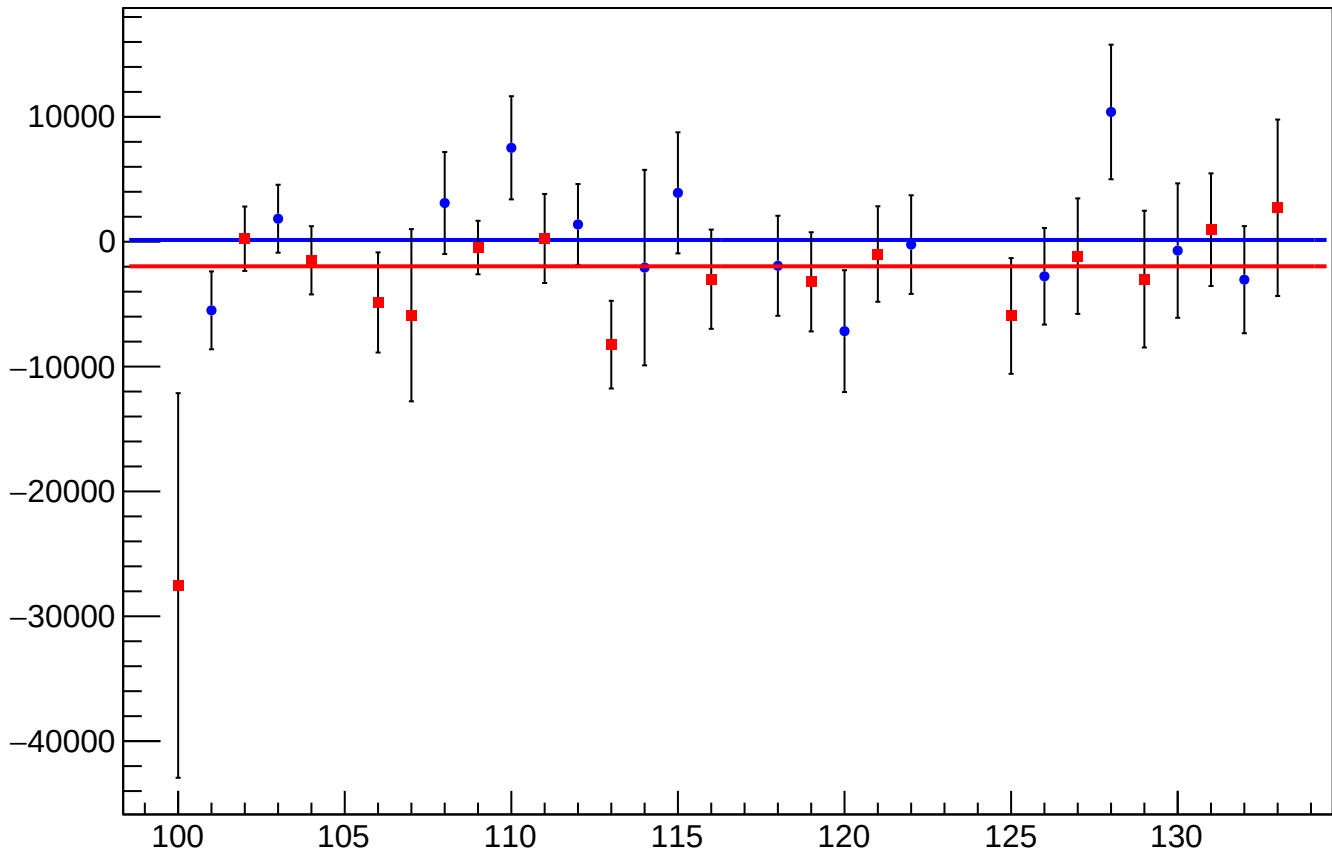
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2099.903+/-0.424  $\chi^2/\text{NDF}$ : 296493.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_correction\_mean vs Slug



Right In: 140.626+/-1072.739  $\chi^2/\text{NDF}$ : 15.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1968.873+/-936.476  $\chi^2/\text{NDF}$ : 10.3/15

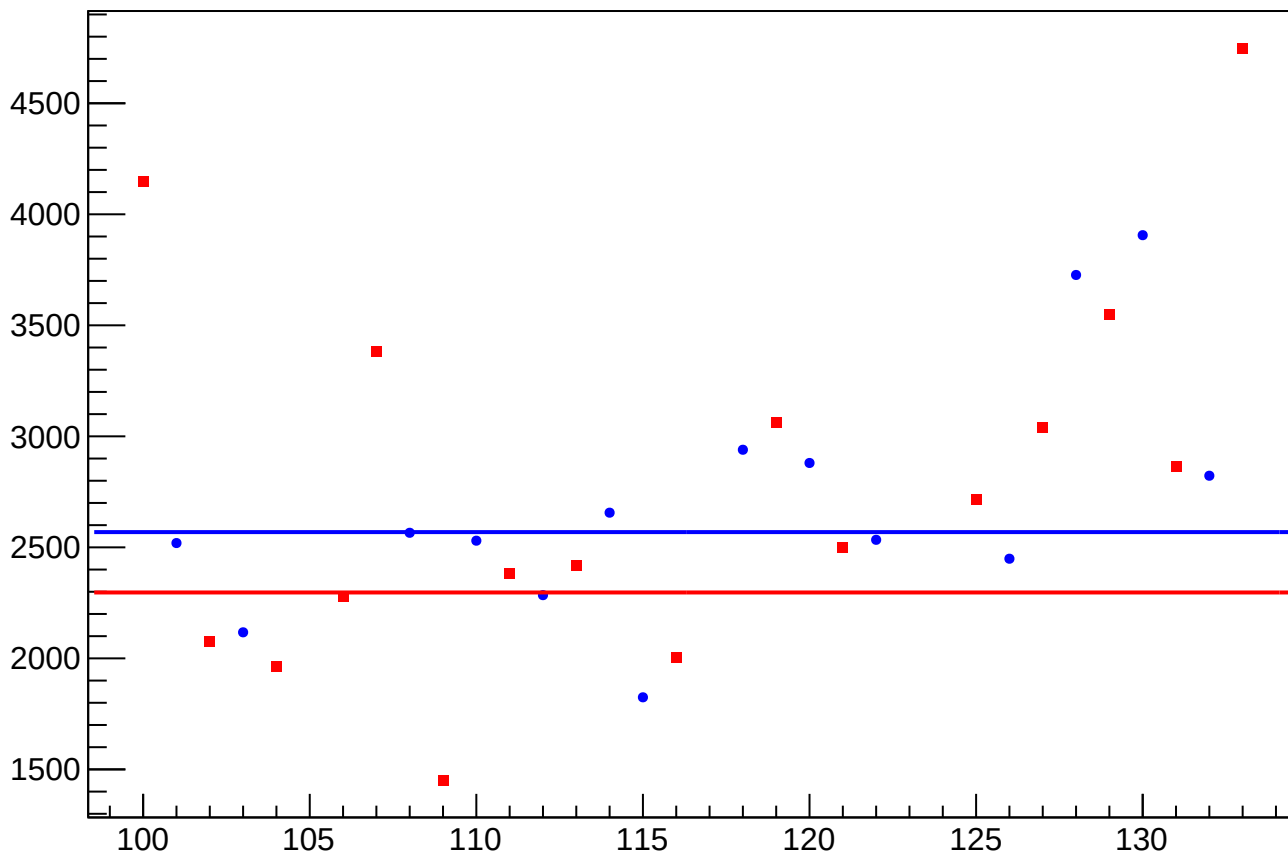
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1056.533+/-705.477  $\chi^2/\text{NDF}$ : 28.0/29

- 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: 2568.695+/-0.759  $\chi^2/\text{NDF}$ : 368538.9/13

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

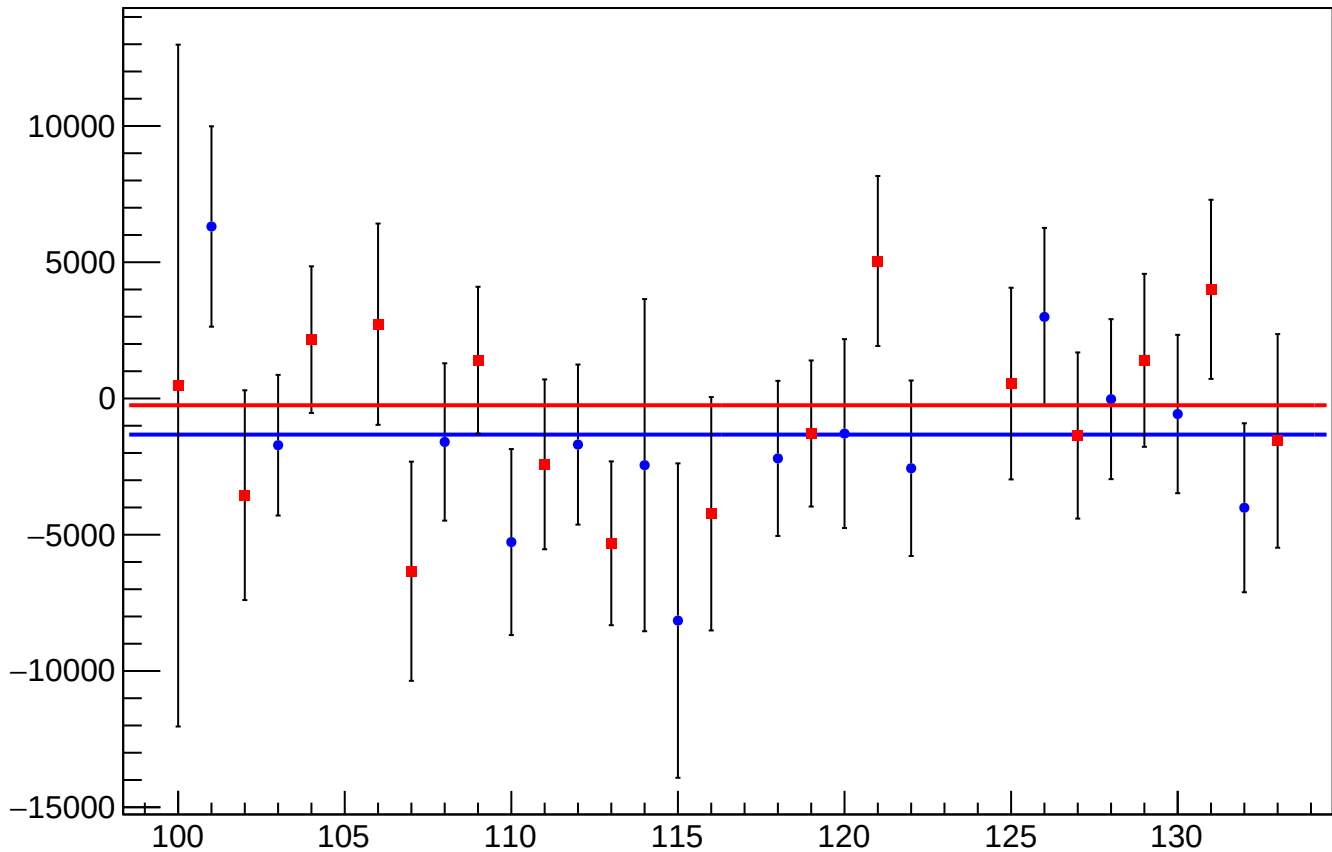
Right Out: 2296.816+/-0.662  $\chi^2/\text{NDF}$ : 973456.7/15

All: 2414.401+/-0.499  $\chi^2/\text{NDF}$ : 1414901.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug



Right In:  $-1325.389 \pm 864.474$   $\chi^2/\text{NDF}$ : 10.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-248.406 \pm 833.202$   $\chi^2/\text{NDF}$ : 14.3/15

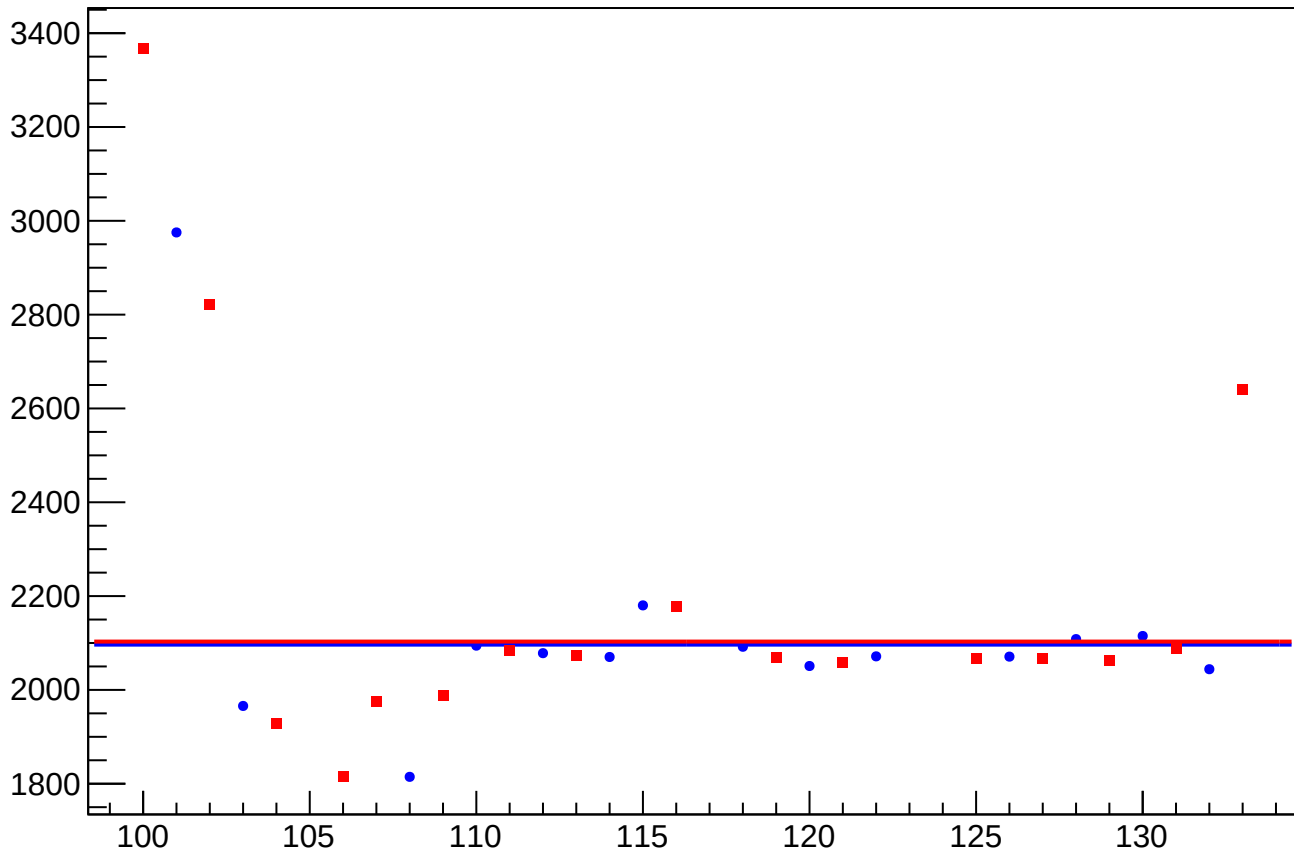
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-767.066 \pm 599.914$   $\chi^2/\text{NDF}$ : 25.3/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 2096.528 $\pm$ 0.611  $\chi^2$ /NDF: 140235.2/13

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

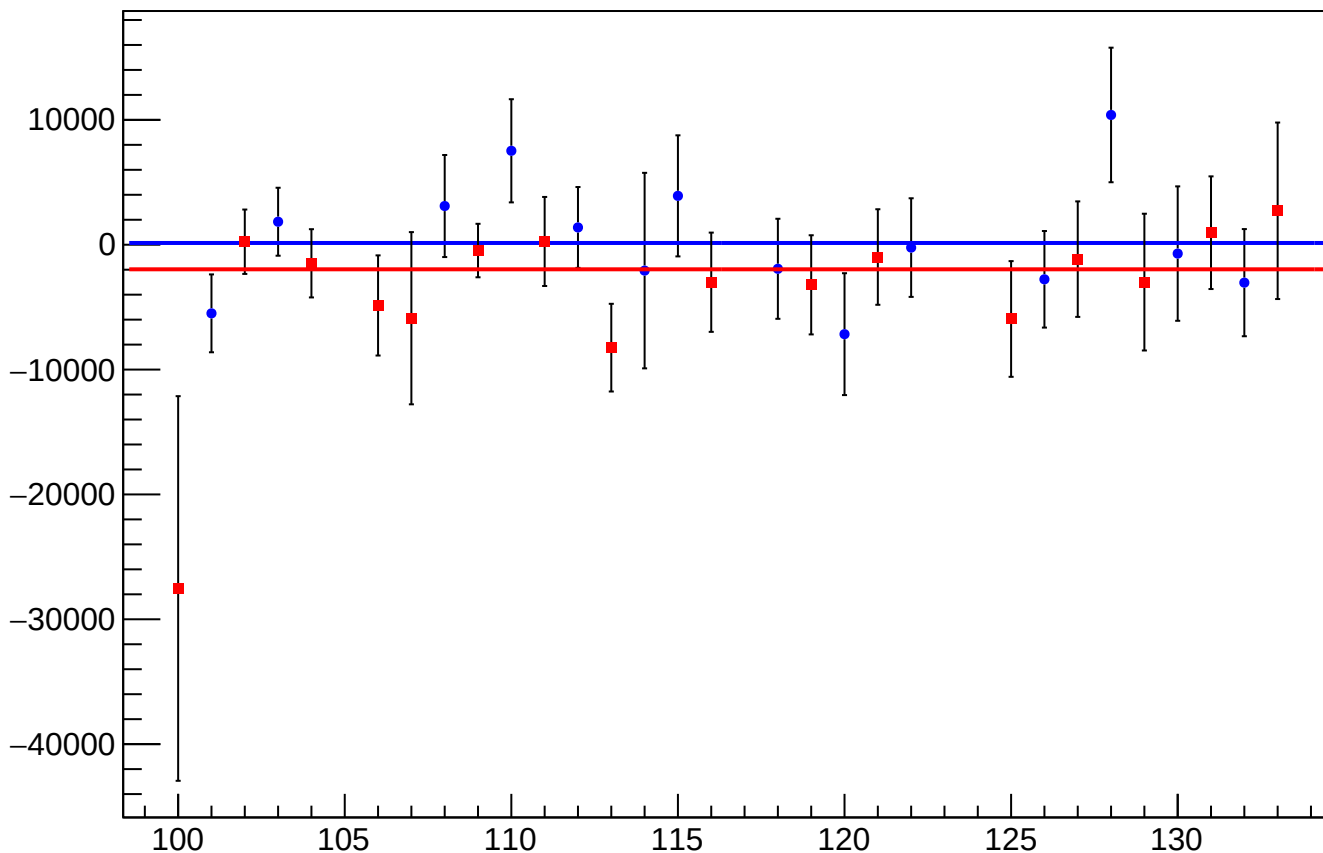
Right Out: 2103.037 $\pm$ 0.589  $\chi^2$ /NDF: 156199.7/15

All: 2099.902 $\pm$ 0.424  $\chi^2$ /NDF: 296493.7/29

- 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: 140.624 $\pm$ 1072.736  $\chi^2$ /NDF: 15.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1968.876 $\pm$ 936.476  $\chi^2$ /NDF: 10.3/15

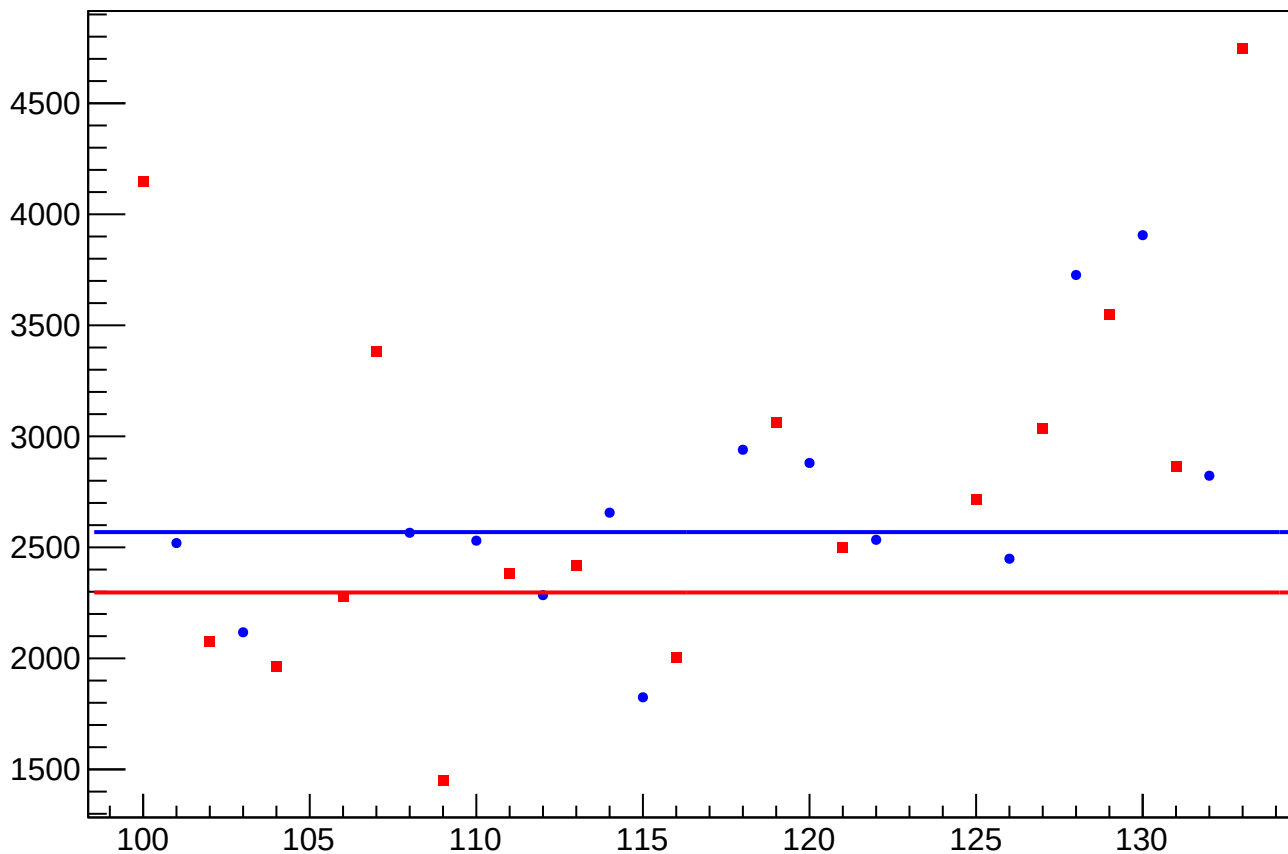
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1056.533 $\pm$ 705.476  $\chi^2$ /NDF: 28.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 2568.689+/-0.759  $\chi^2/\text{NDF}$ : 368530.7/13

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: 2296.819+/-0.662  $\chi^2/\text{NDF}$ : 973435.7/15

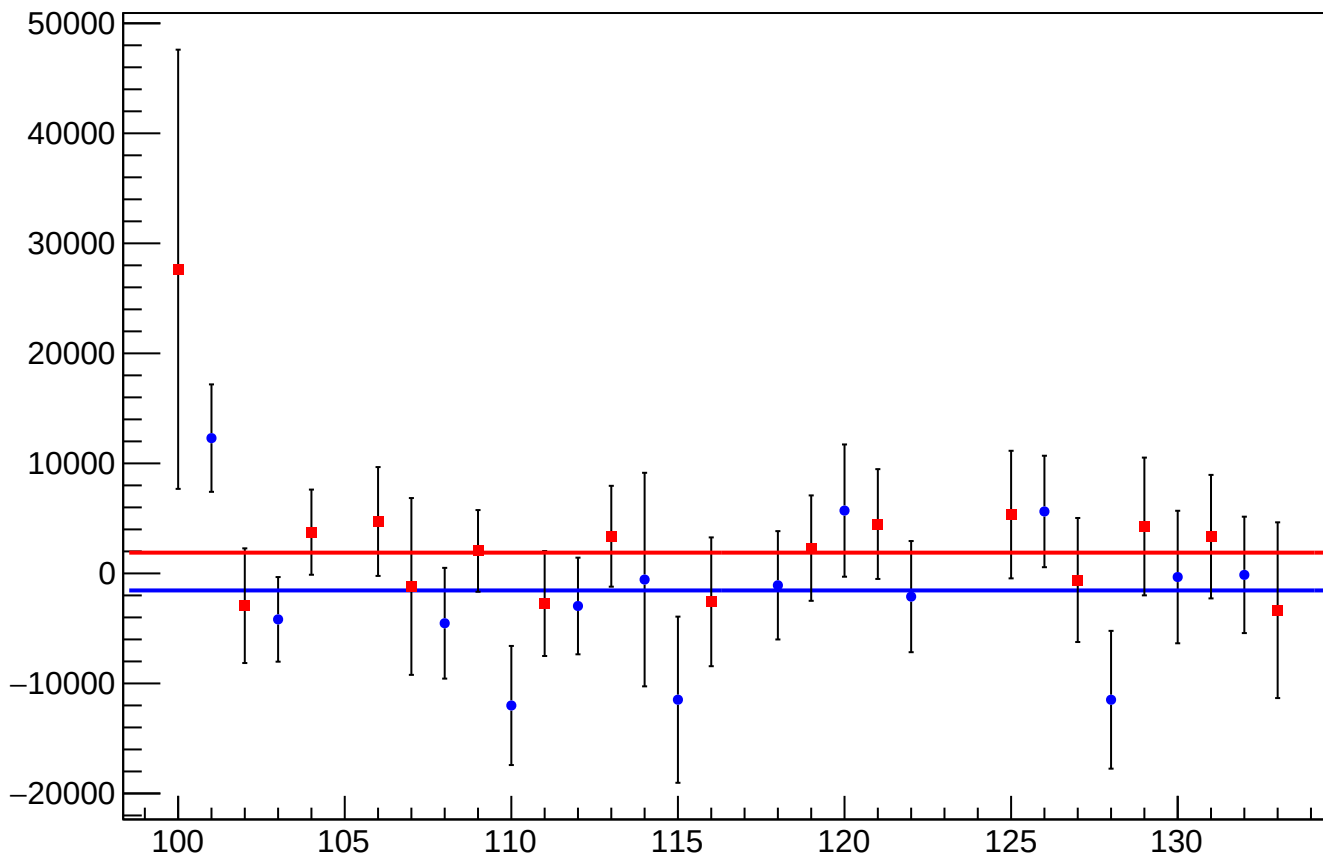
All: 2414.401+/-0.499  $\chi^2/\text{NDF}$ : 1414868.0/29

- 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\_at2lr\_dd\_avg\_mean vs Slug



Right In: -1547.767 $\pm$ 1415.576  $\chi^2$ /NDF: 20.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1887.448 $\pm$ 1320.376  $\chi^2$ /NDF: 6.3/15

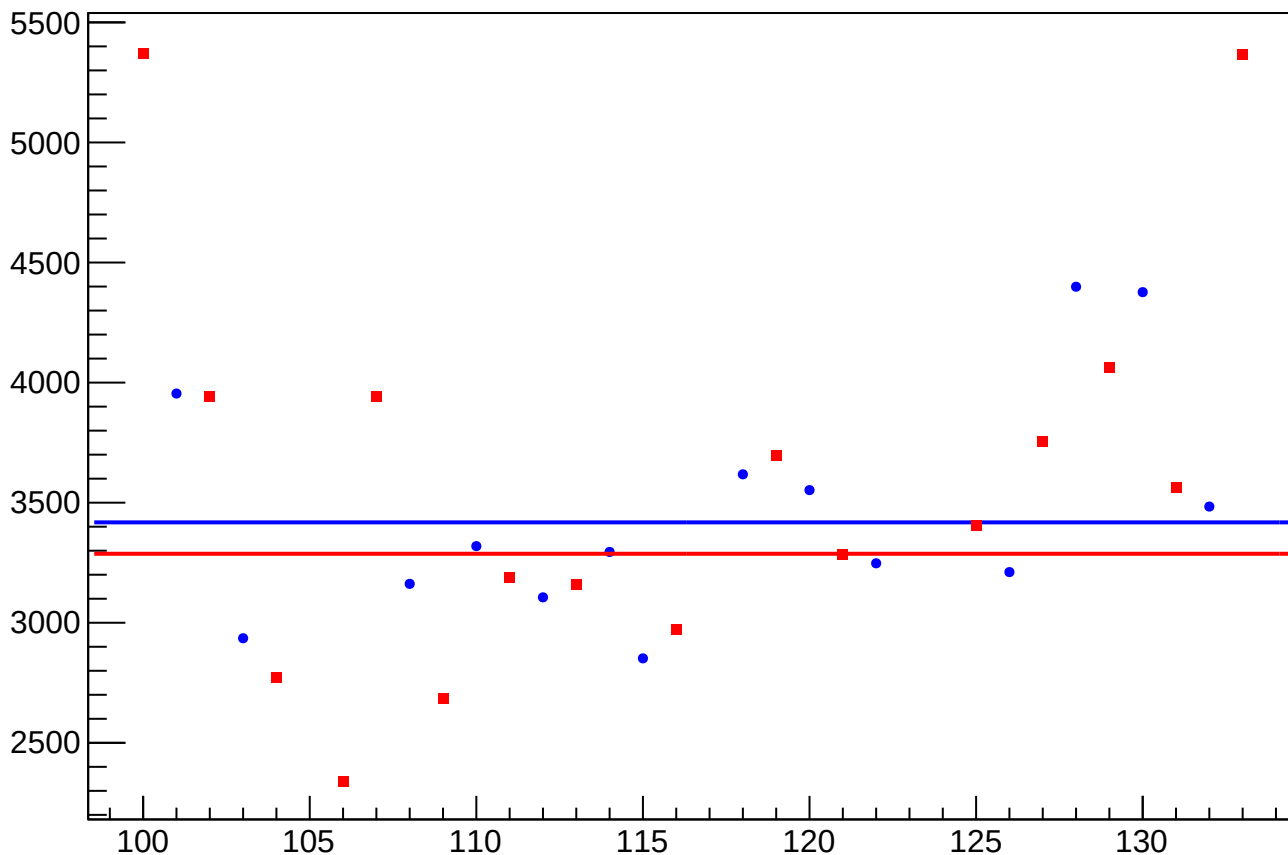
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 289.228 $\pm$ 965.550  $\chi^2$ /NDF: 30.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug



Right In: 3418.010+/-1.001  $\chi^2$ /NDF: 193164.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3287.256+/-0.934  $\chi^2$ /NDF: 436877.5/15

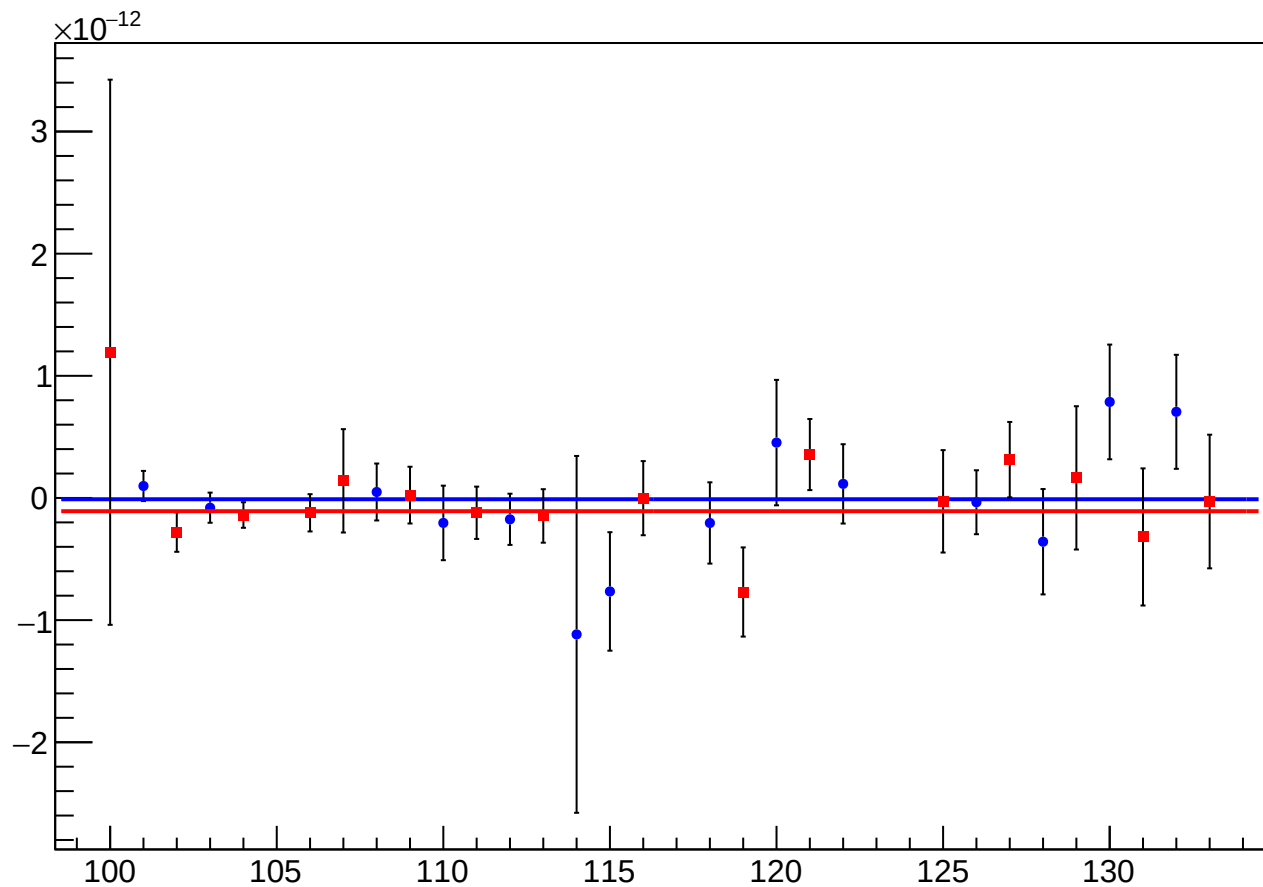
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 3348.088+/-0.683  $\chi^2$ /NDF: 639166.5/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 12.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 10.5/15

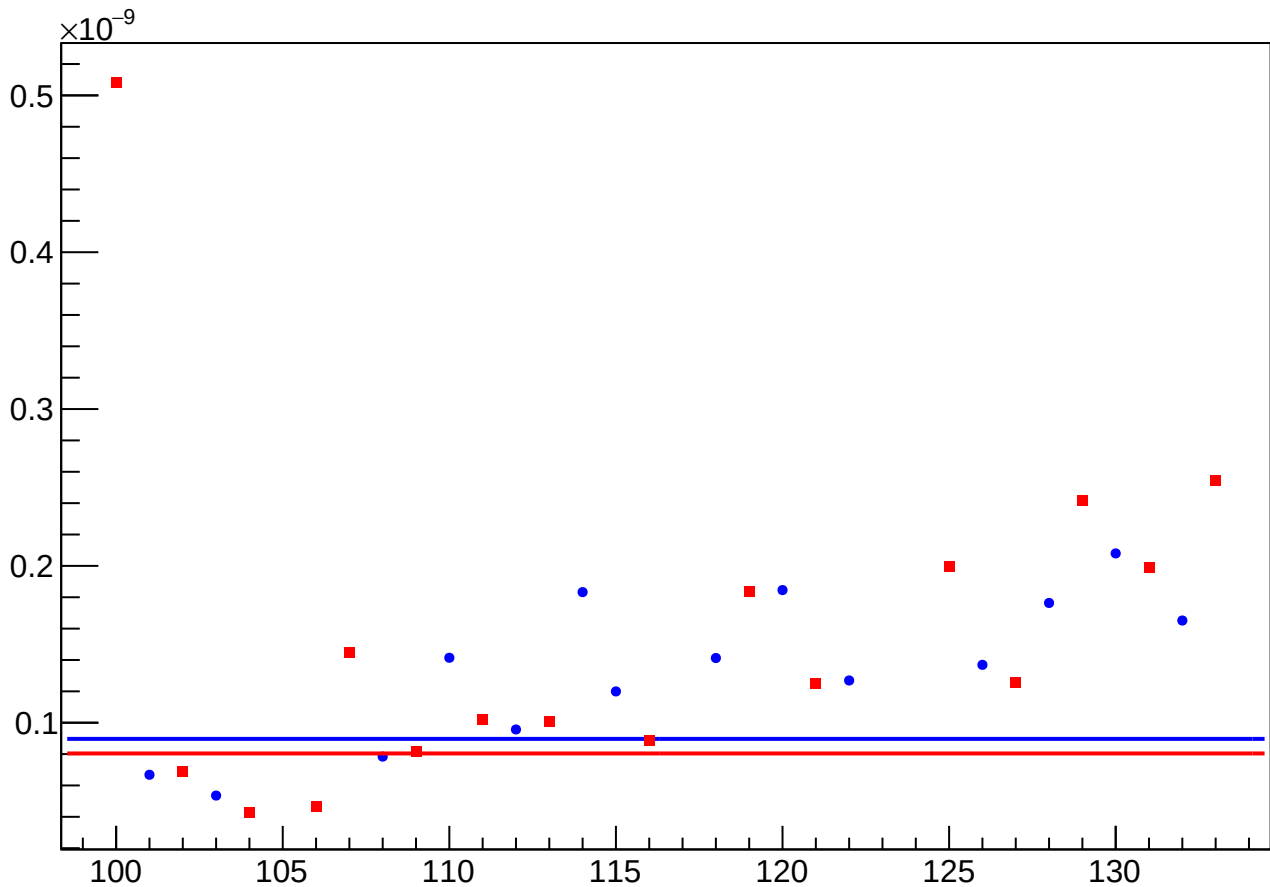
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 24.1/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 787749.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1381960.3/15

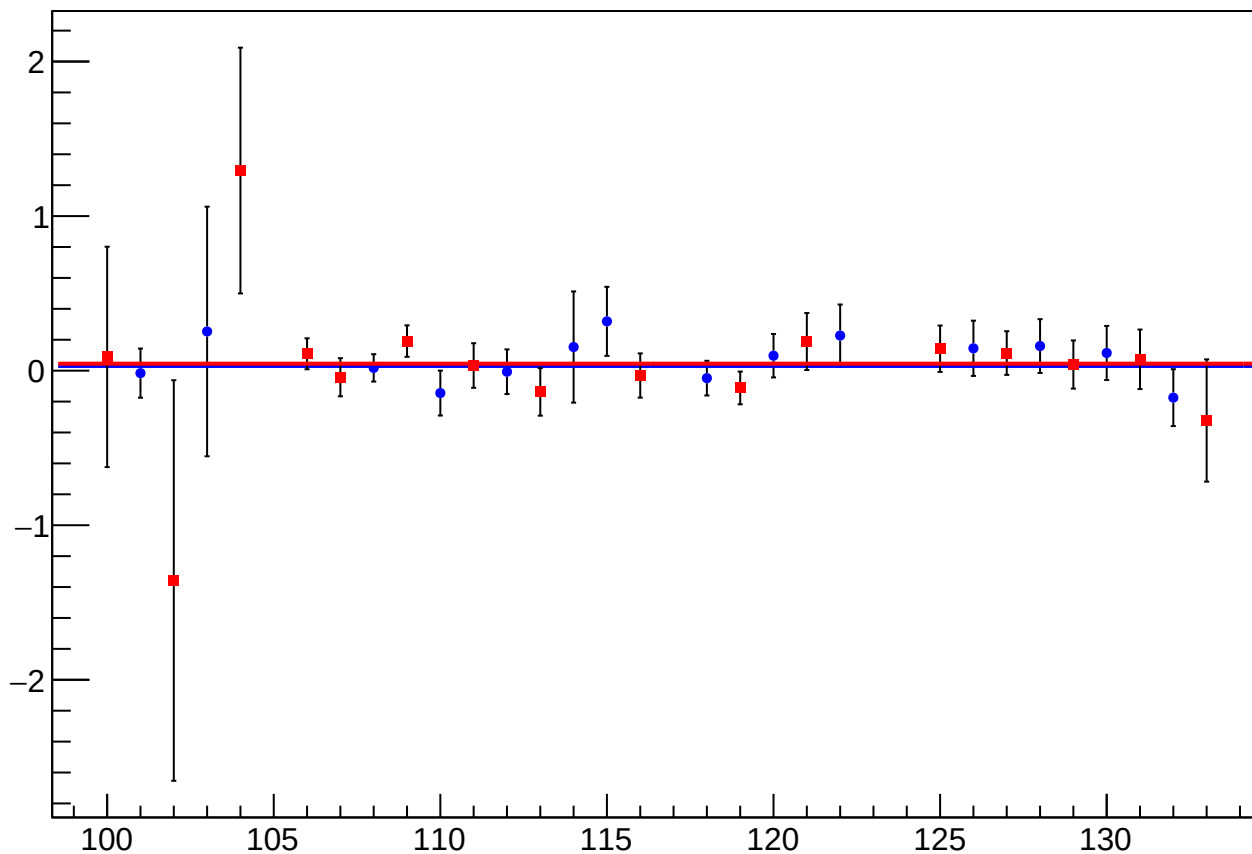
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2192515.2/29

- 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: 0.031 $\pm$ 0.042  $\chi^2$ /NDF: 7.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.045 $\pm$ 0.038  $\chi^2$ /NDF: 12.7/15

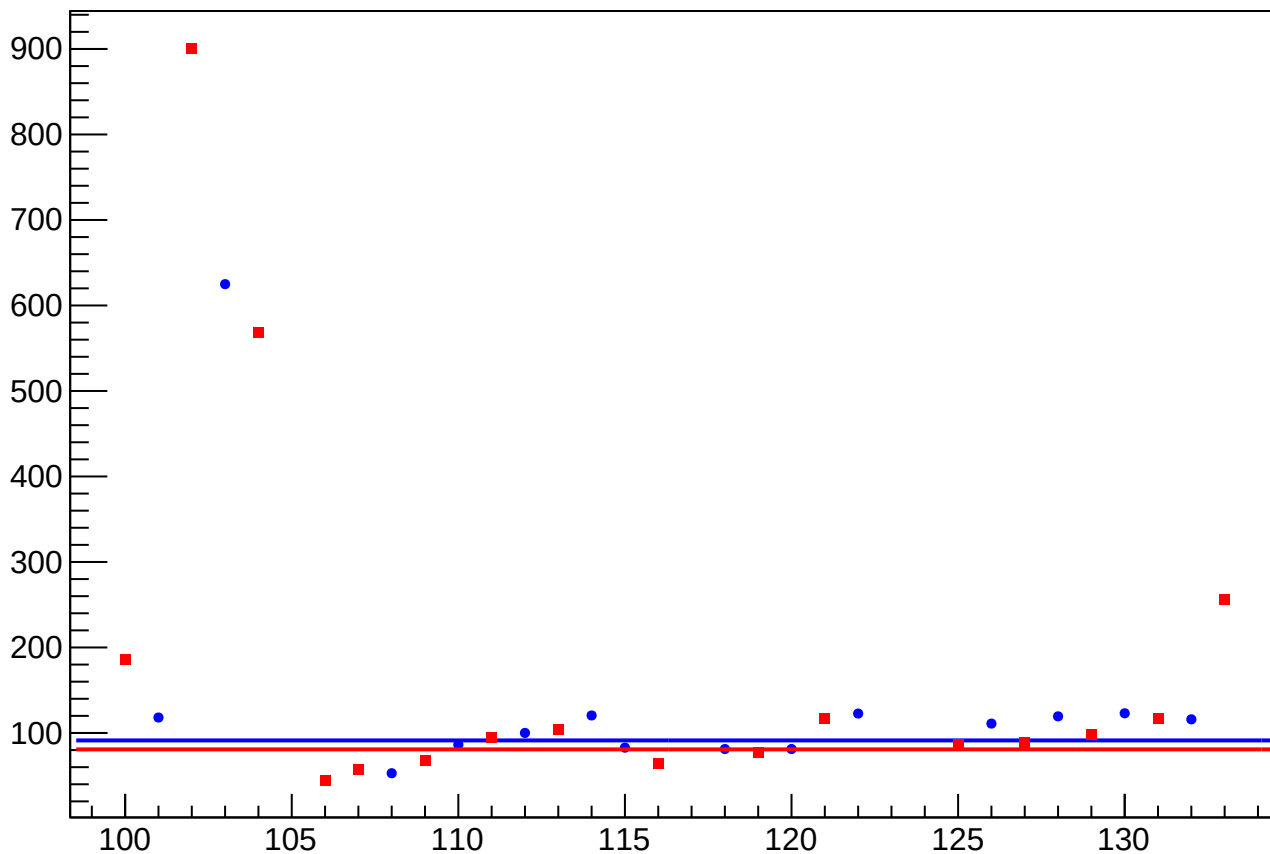
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.039 $\pm$ 0.028  $\chi^2$ /NDF: 20.3/29

- 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: 91.302 $\pm$ 0.030  $\chi^2$ /NDF: 1584722.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 80.815 $\pm$ 0.027  $\chi^2$ /NDF: 2646359.0/15

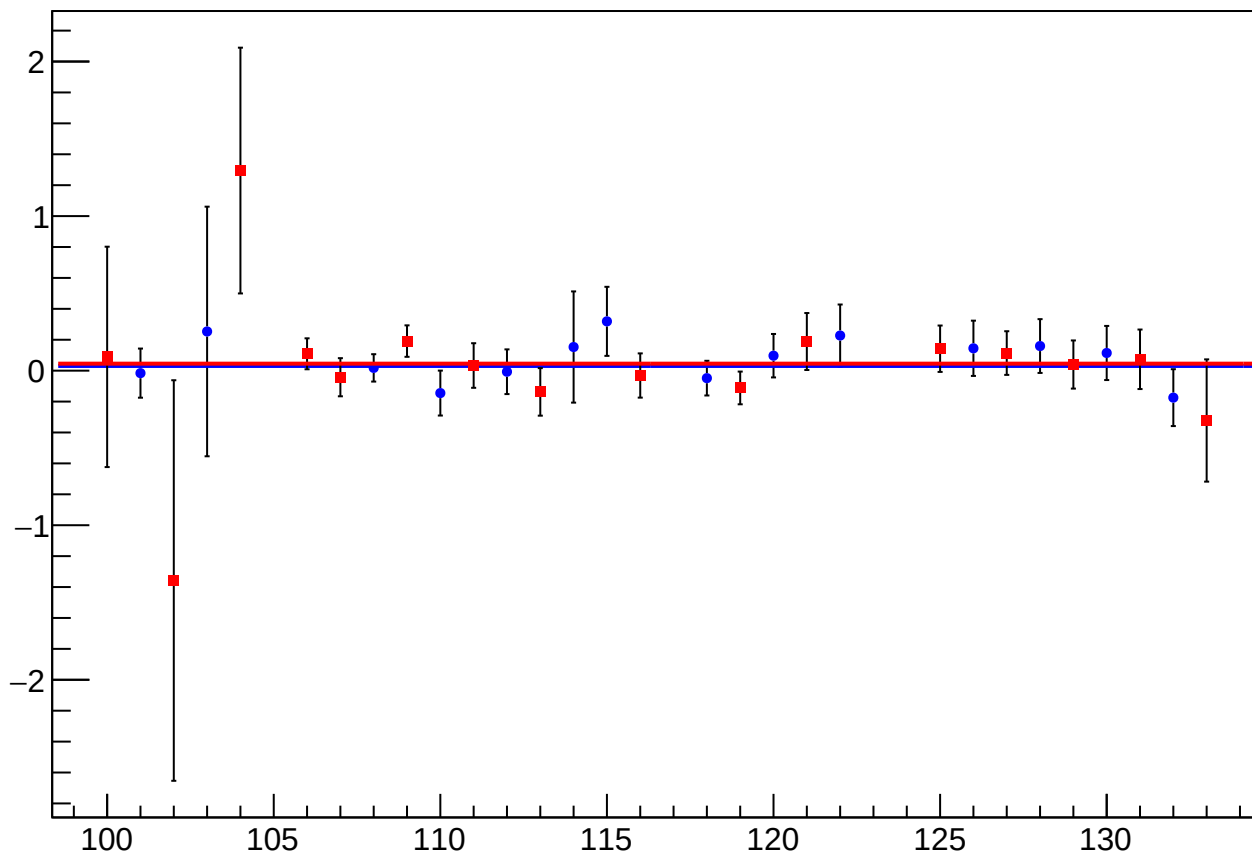
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 85.560 $\pm$ 0.020  $\chi^2$ /NDF: 4300072.3/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.031 $\pm$ 0.042  $\chi^2$ /NDF: 7.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.045 $\pm$ 0.038  $\chi^2$ /NDF: 12.7/15

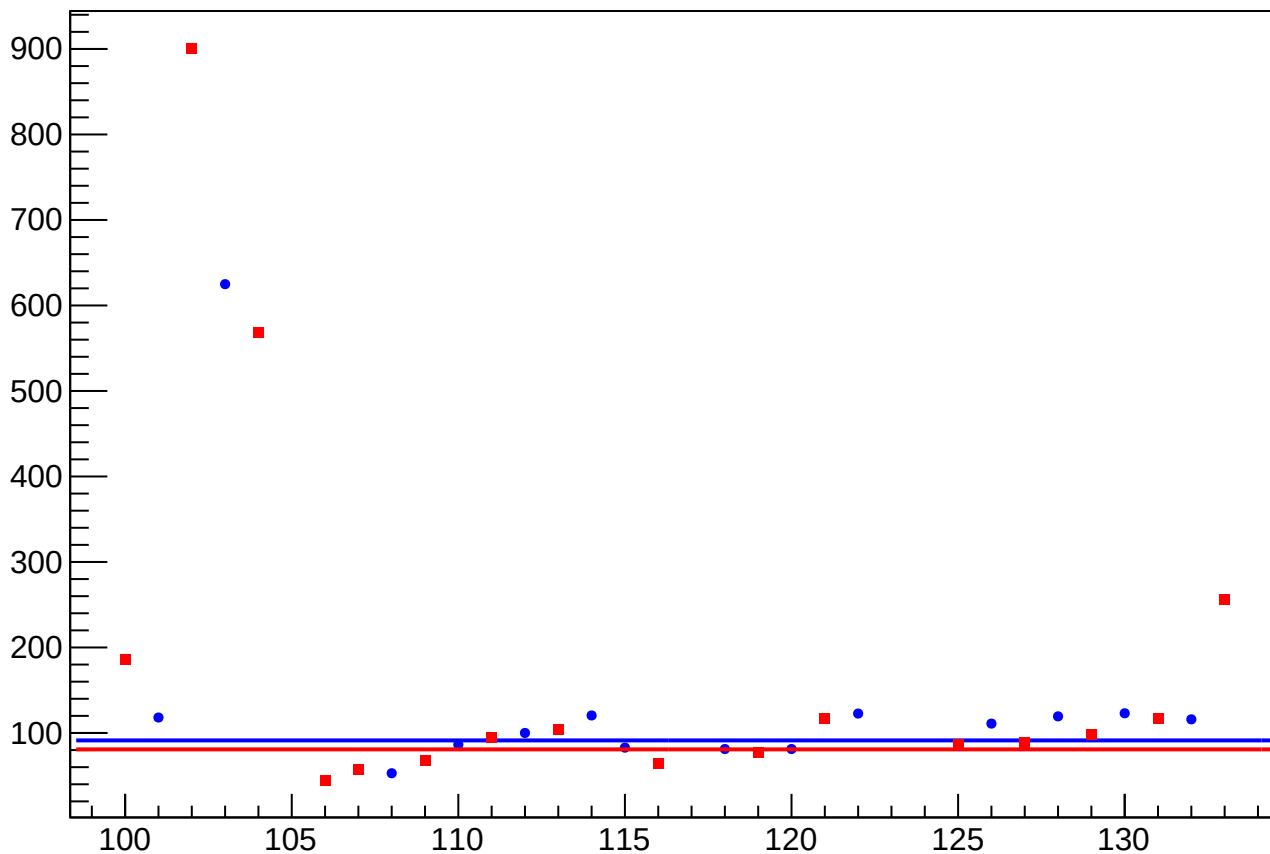
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.039 $\pm$ 0.028  $\chi^2$ /NDF: 20.3/29

- 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: 91.302 $\pm$ 0.030  $\chi^2$ /NDF: 1584722.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 80.815 $\pm$ 0.027  $\chi^2$ /NDF: 2646359.0/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

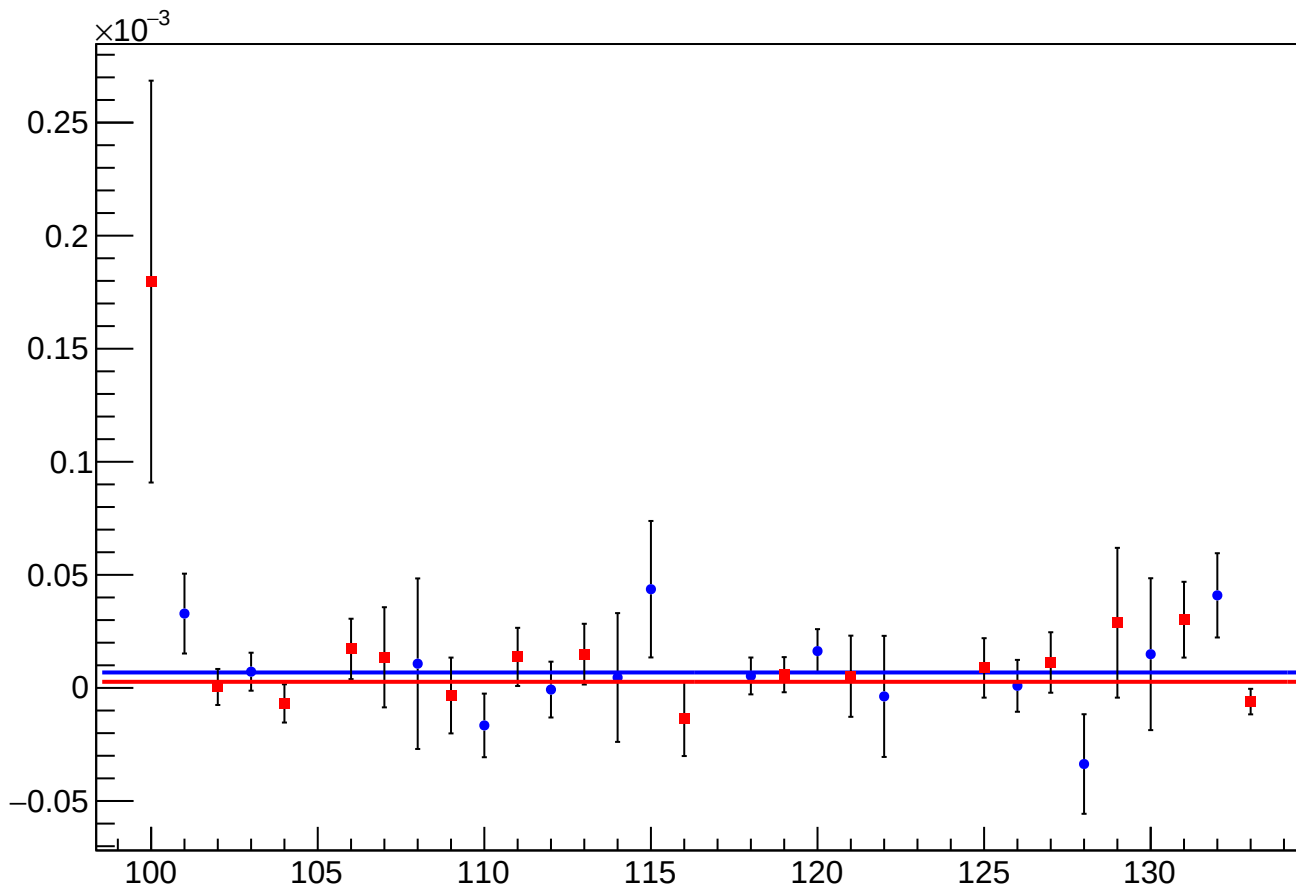
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 85.560 $\pm$ 0.020  $\chi^2$ /NDF: 4300072.3/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.9/15

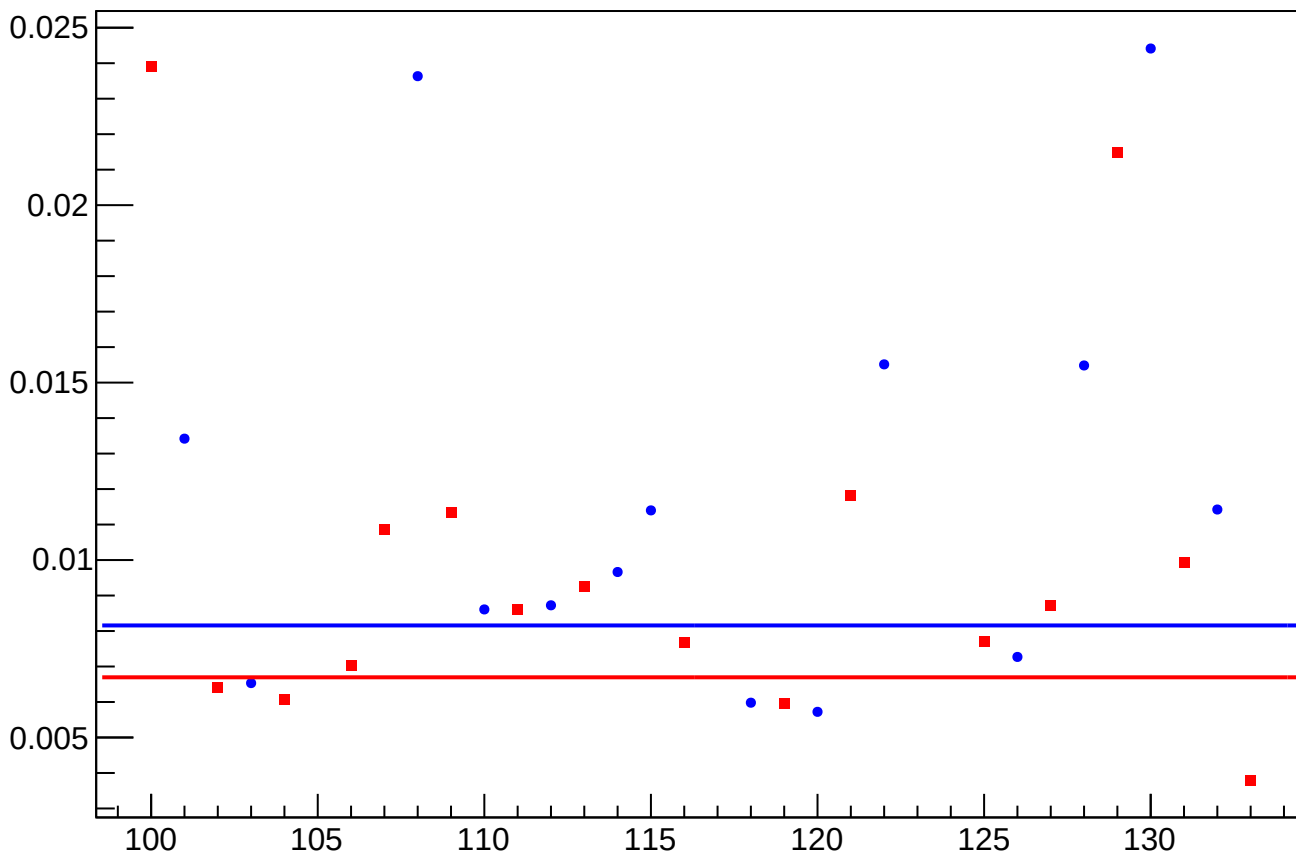
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 31.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 1807243.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1681221.3/15

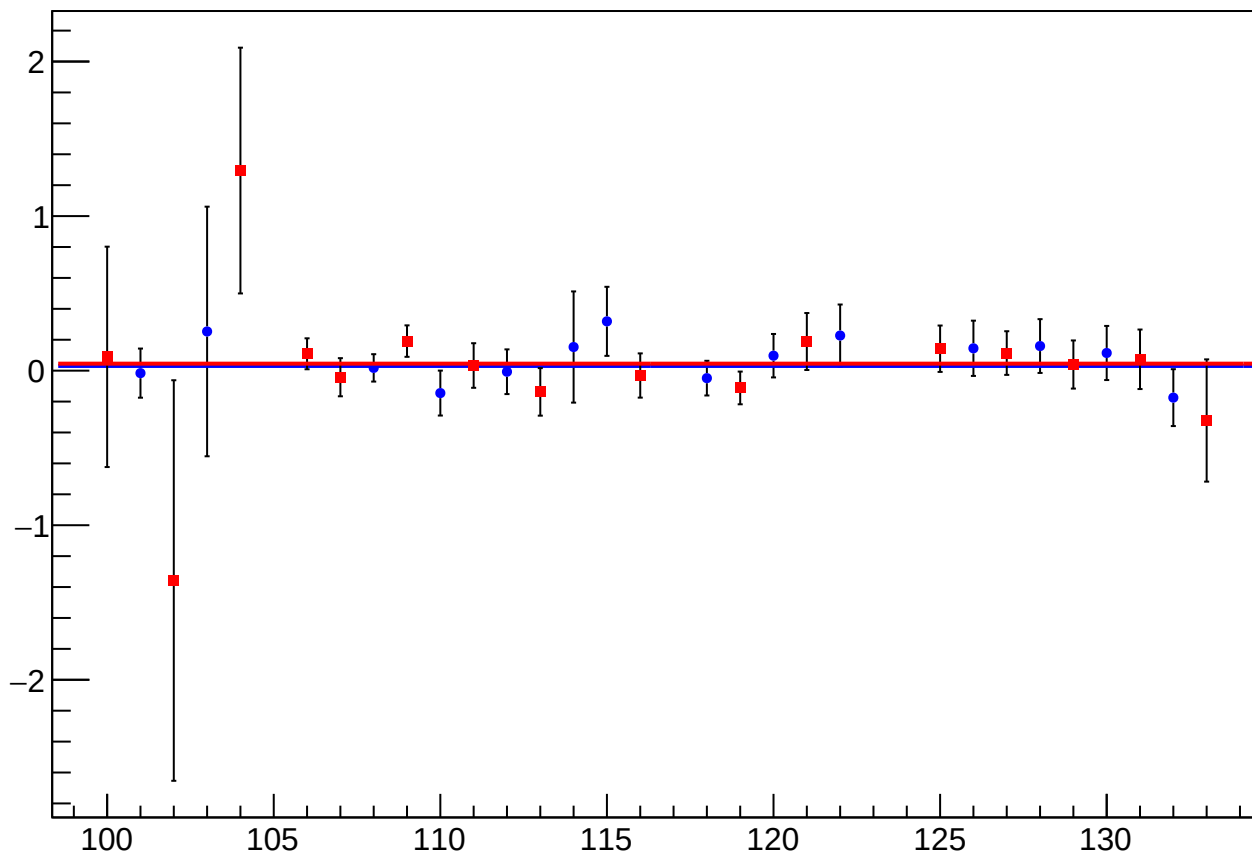
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 3683508.2/29

- 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: 0.031 $\pm$ 0.042  $\chi^2$ /NDF: 7.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.045 $\pm$ 0.038  $\chi^2$ /NDF: 12.7/15

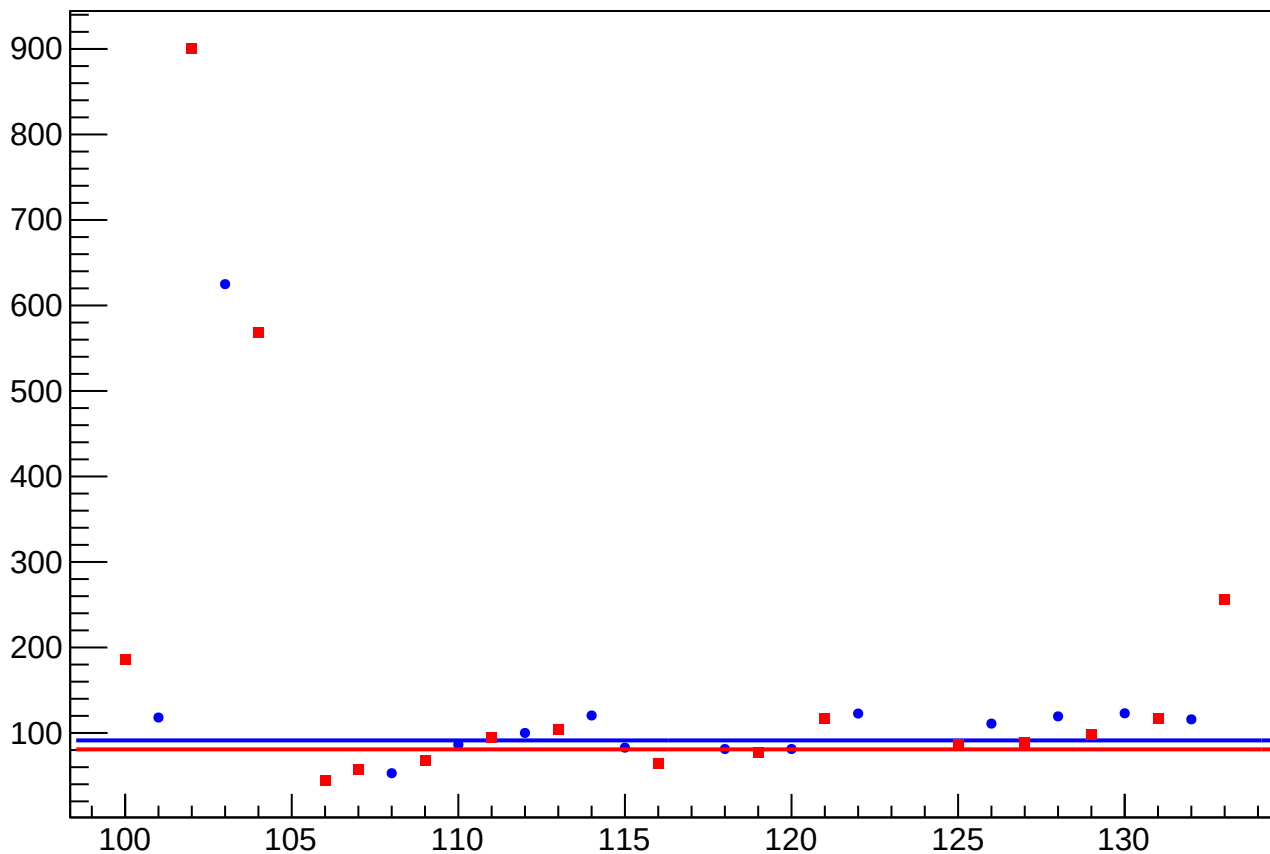
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.039 $\pm$ 0.028  $\chi^2$ /NDF: 20.3/29

- 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: 91.306+/-0.030  $\chi^2/\text{NDF}$ : 1584413.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 80.814+/-0.027  $\chi^2/\text{NDF}$ : 2646326.1/15

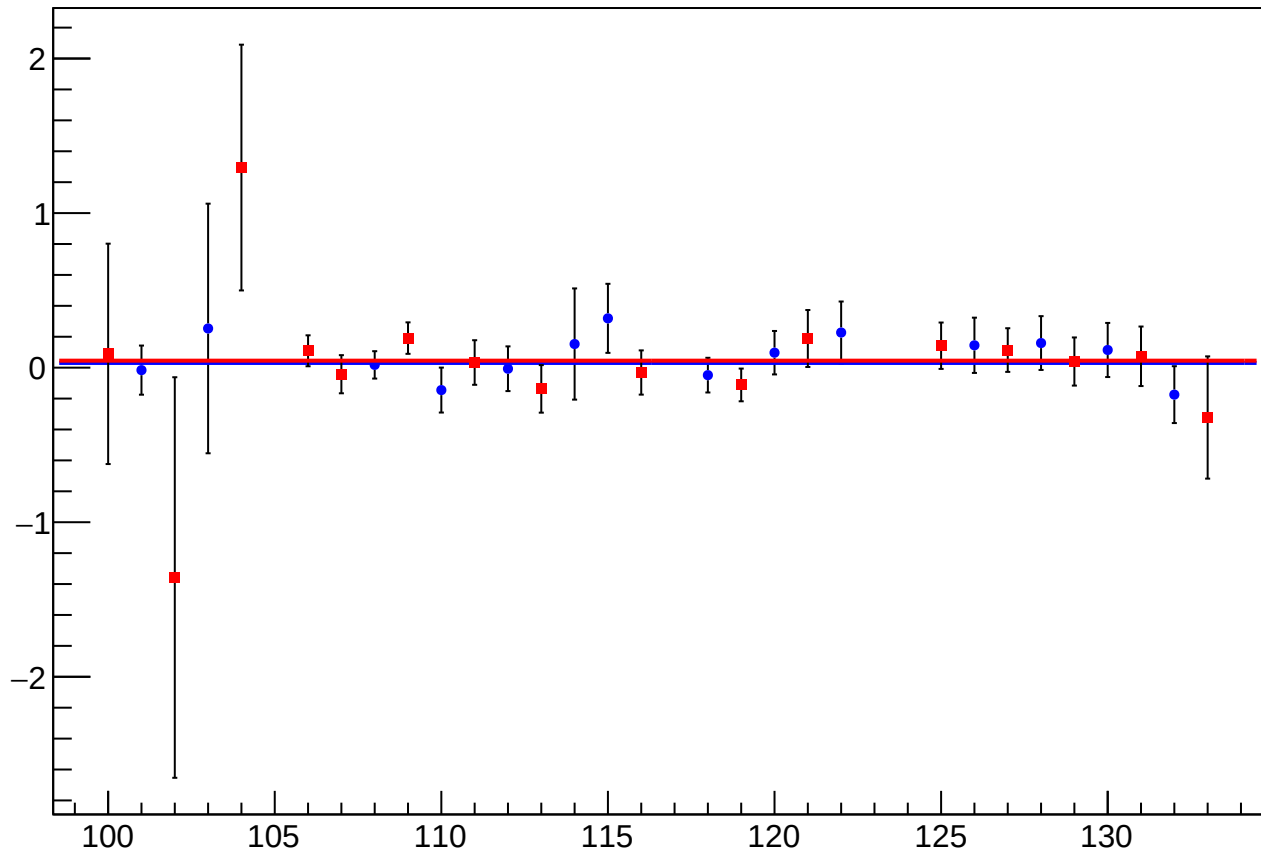
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 85.561+/-0.020  $\chi^2/\text{NDF}$ : 4299789.2/29

- 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: 0.031 $\pm$ 0.042  $\chi^2$ /NDF: 7.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.045 $\pm$ 0.038  $\chi^2$ /NDF: 12.7/15

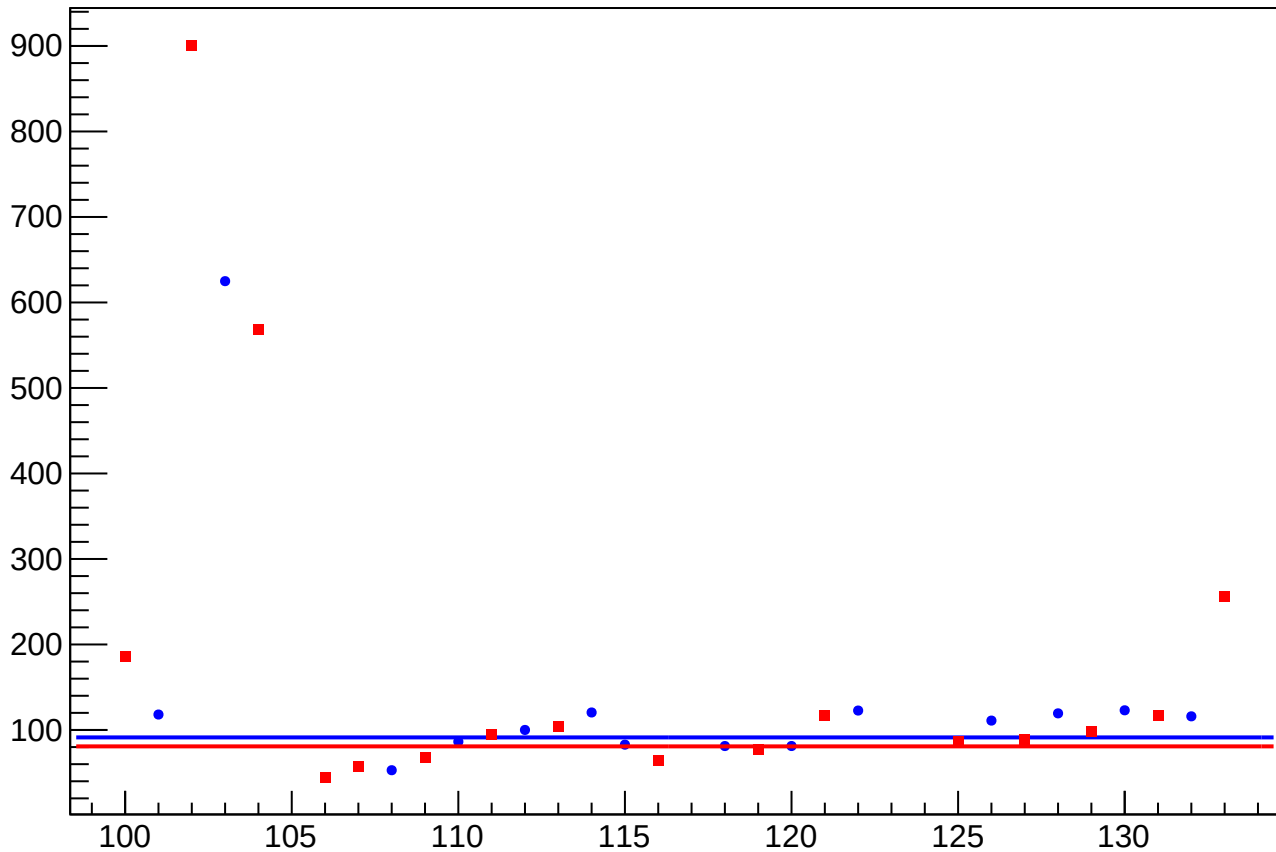
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.039 $\pm$ 0.028  $\chi^2$ /NDF: 20.3/29

- 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: 91.306+/-0.030  $\chi^2/\text{NDF}$ : 1584413.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 80.814+/-0.027  $\chi^2/\text{NDF}$ : 2646326.1/15

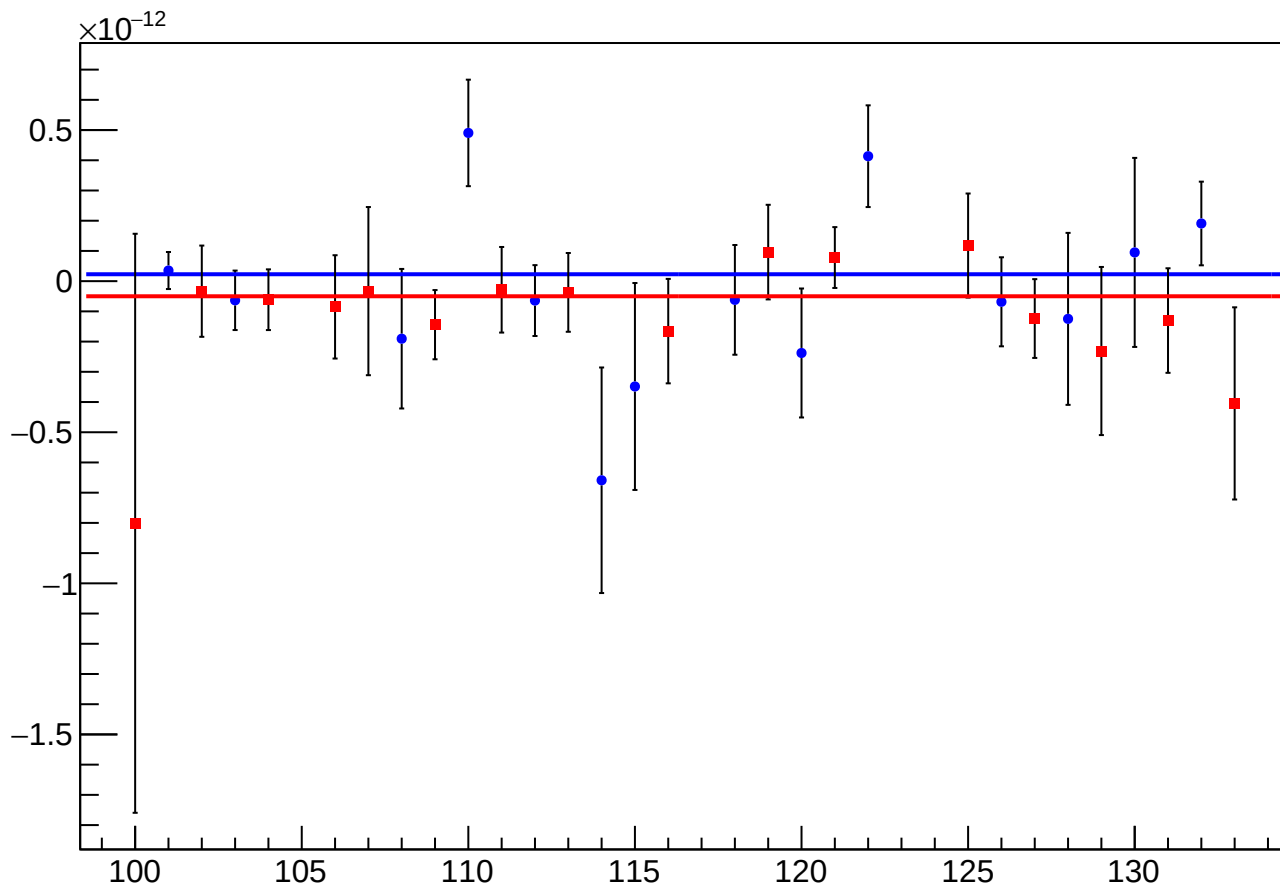
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 85.561+/-0.020  $\chi^2/\text{NDF}$ : 4299789.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 23.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.5/15

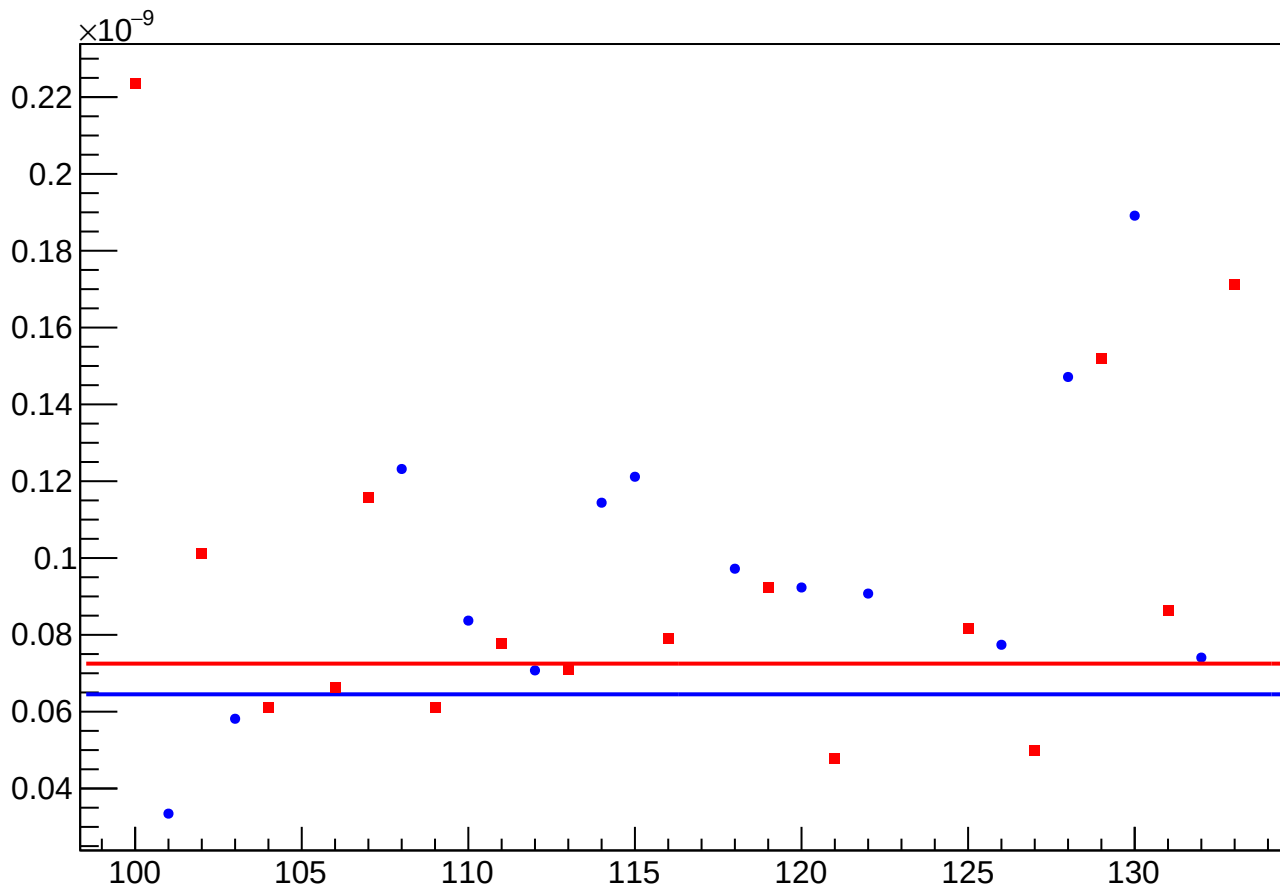
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 32.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1429302.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 810031.6/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

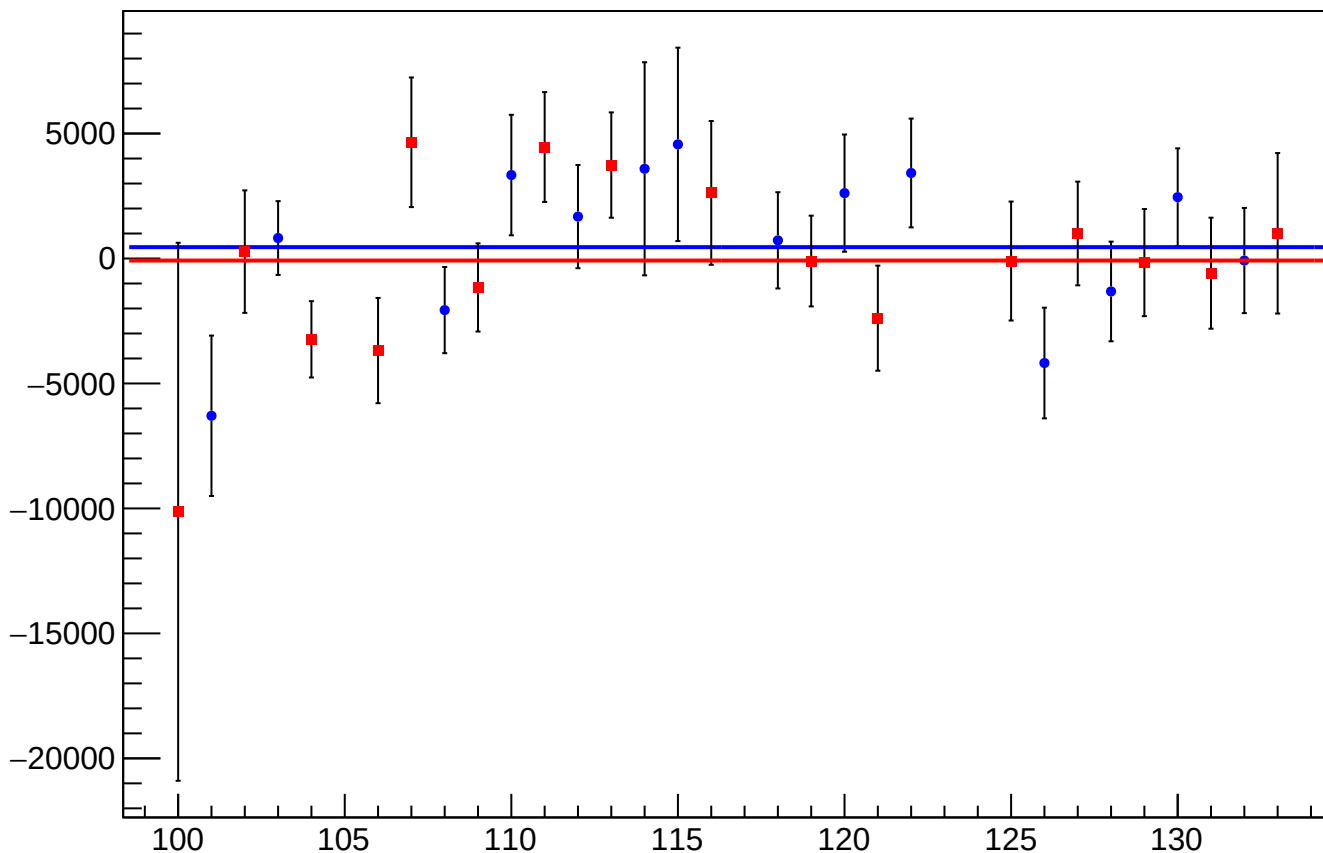
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2284479.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 454.121+/-574.705  $\chi^2/\text{NDF}$ : 19.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -81.922+/-549.738  $\chi^2/\text{NDF}$ : 21.9/15

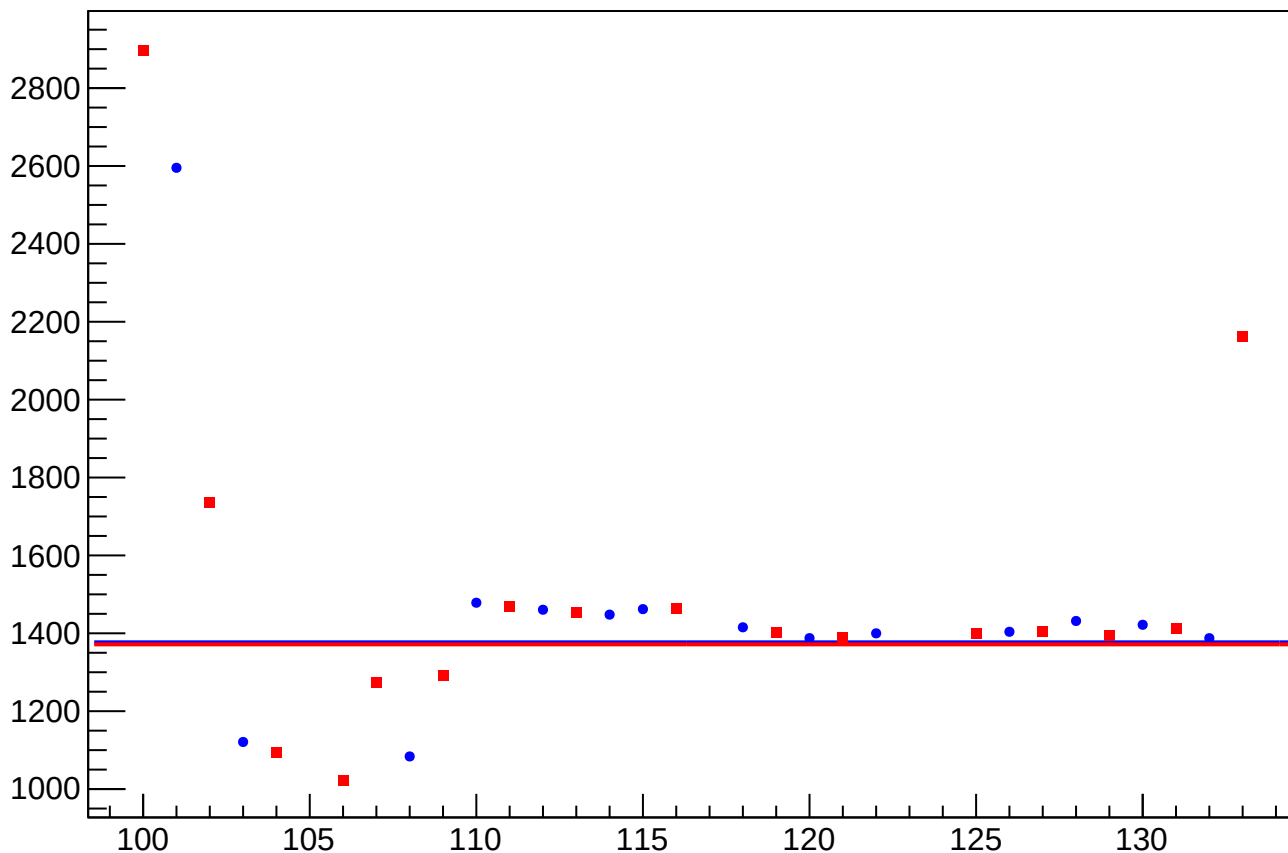
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 174.203+/-397.257  $\chi^2/\text{NDF}$ : 41.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1376.766+/-0.406  $\chi^2/\text{NDF}$ : 418731.2/13

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

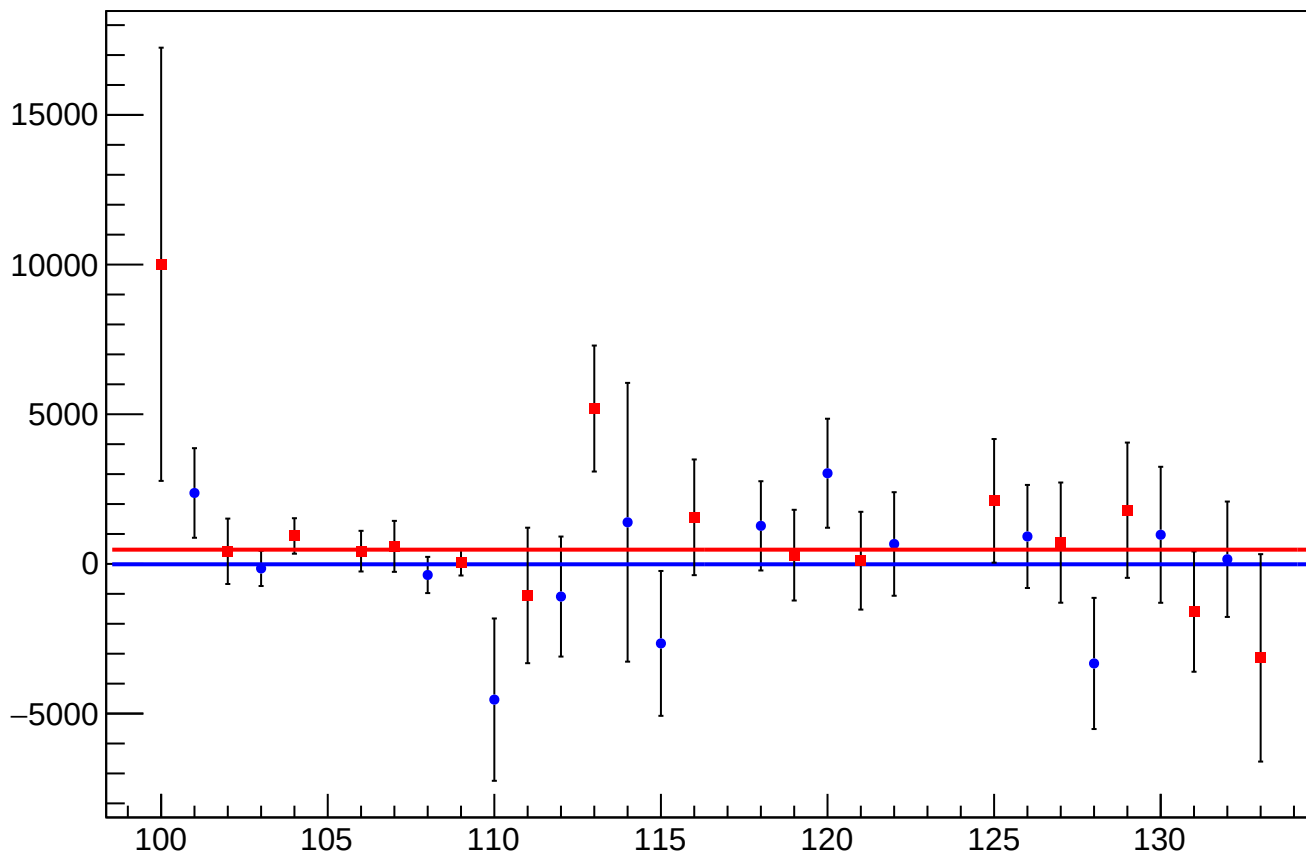
Right Out: 1371.577+/-0.389  $\chi^2/\text{NDF}$ : 344992.7/15

All: 1374.056+/-0.281  $\chi^2/\text{NDF}$ : 763809.1/29

- 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\_at2lr\_dd\_dd\_reg\_correction\_mean vs Slug



Right In:  $-12.623 \pm 337.700$   $\chi^2/\text{NDF}$ : 13.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $476.004 \pm 258.579$   $\chi^2/\text{NDF}$ : 12.3/15

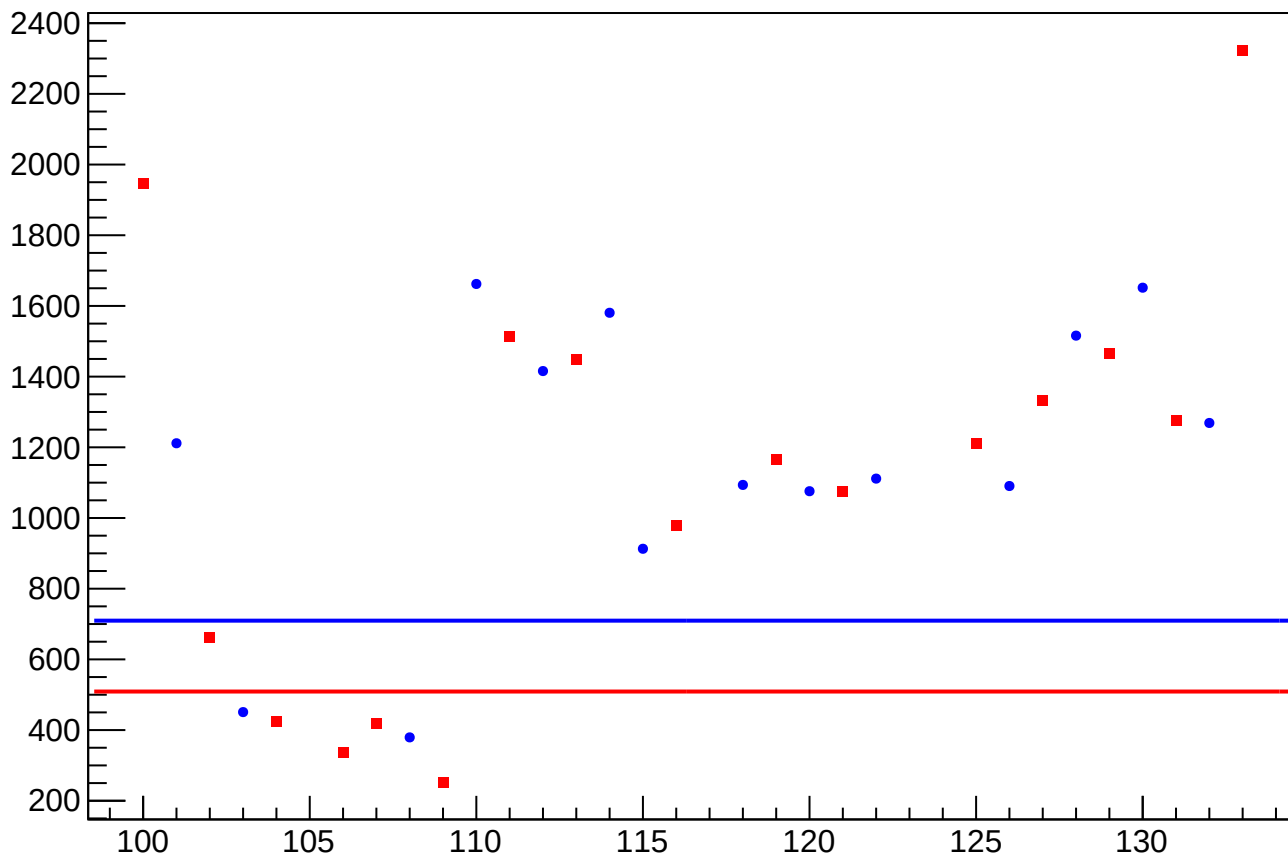
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $295.405 \pm 205.305$   $\chi^2/\text{NDF}$ : 27.3/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_reg\_correction\_rms vs Slug



Right In: 709.561+/-0.239  $\chi^2/\text{NDF}$ : 2990274.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 509.042+/-0.183  $\chi^2/\text{NDF}$ : 4296040.5/15

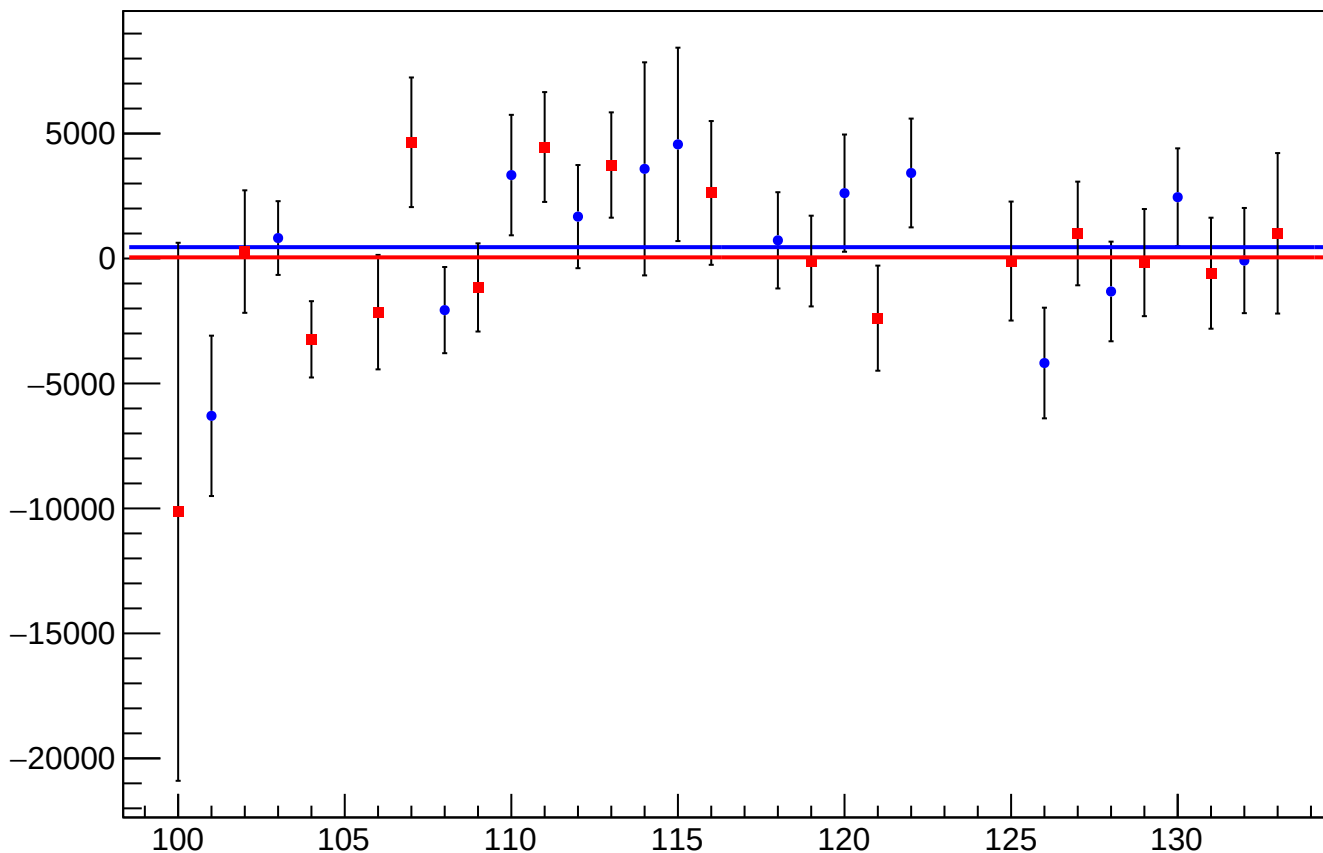
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 583.155+/-0.145  $\chi^2/\text{NDF}$ : 7730832.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

cor\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 453.938 $\pm$ 574.705  $\chi^2$ /NDF: 19.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 46.287 $\pm$ 552.660  $\chi^2$ /NDF: 19.7/15

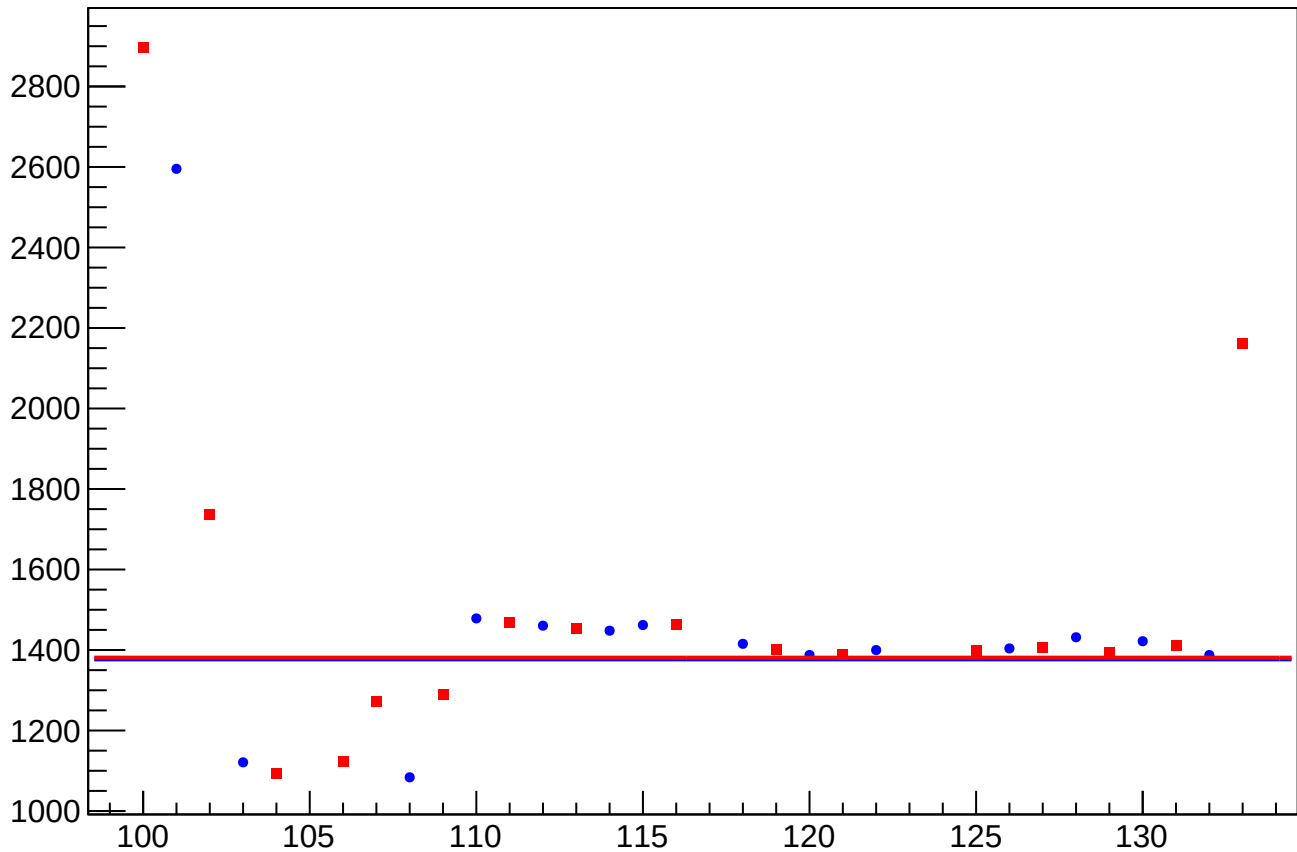
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 242.144 $\pm$ 398.355  $\chi^2$ /NDF: 39.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1376.766+/-0.406  $\chi^2/\text{NDF}$ : 418731.3/13

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

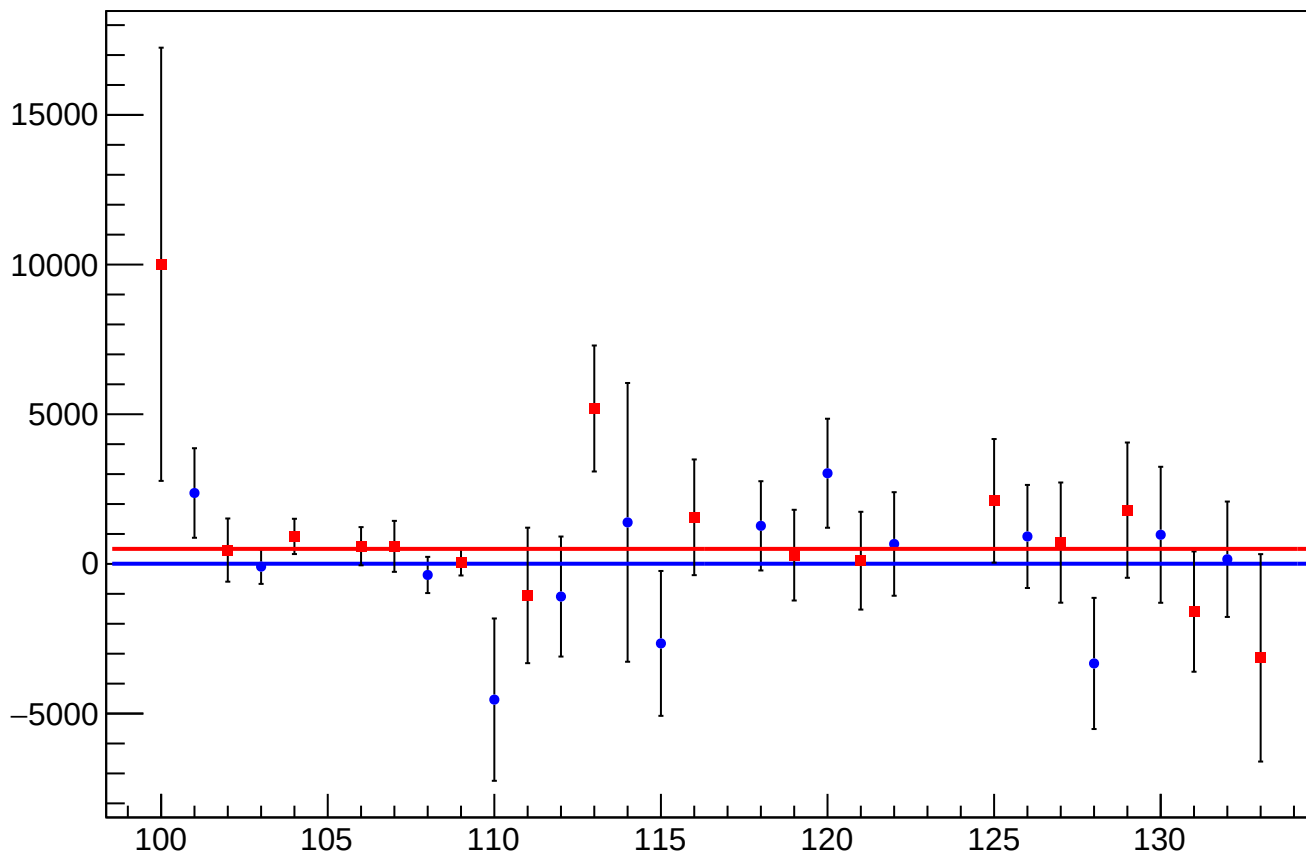
Right Out: 1381.071+/-0.391  $\chi^2/\text{NDF}$ : 313271.8/15

All: 1379.003+/-0.282  $\chi^2/\text{NDF}$ : 732061.5/29

- 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\_at2lr\_dd\_dd\_cor\_correction\_mean vs Slug



Right In: 5.807+/-335.540  $\chi^2/\text{NDF}$ : 13.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 501.944+/-255.353  $\chi^2/\text{NDF}$ : 12.3/15

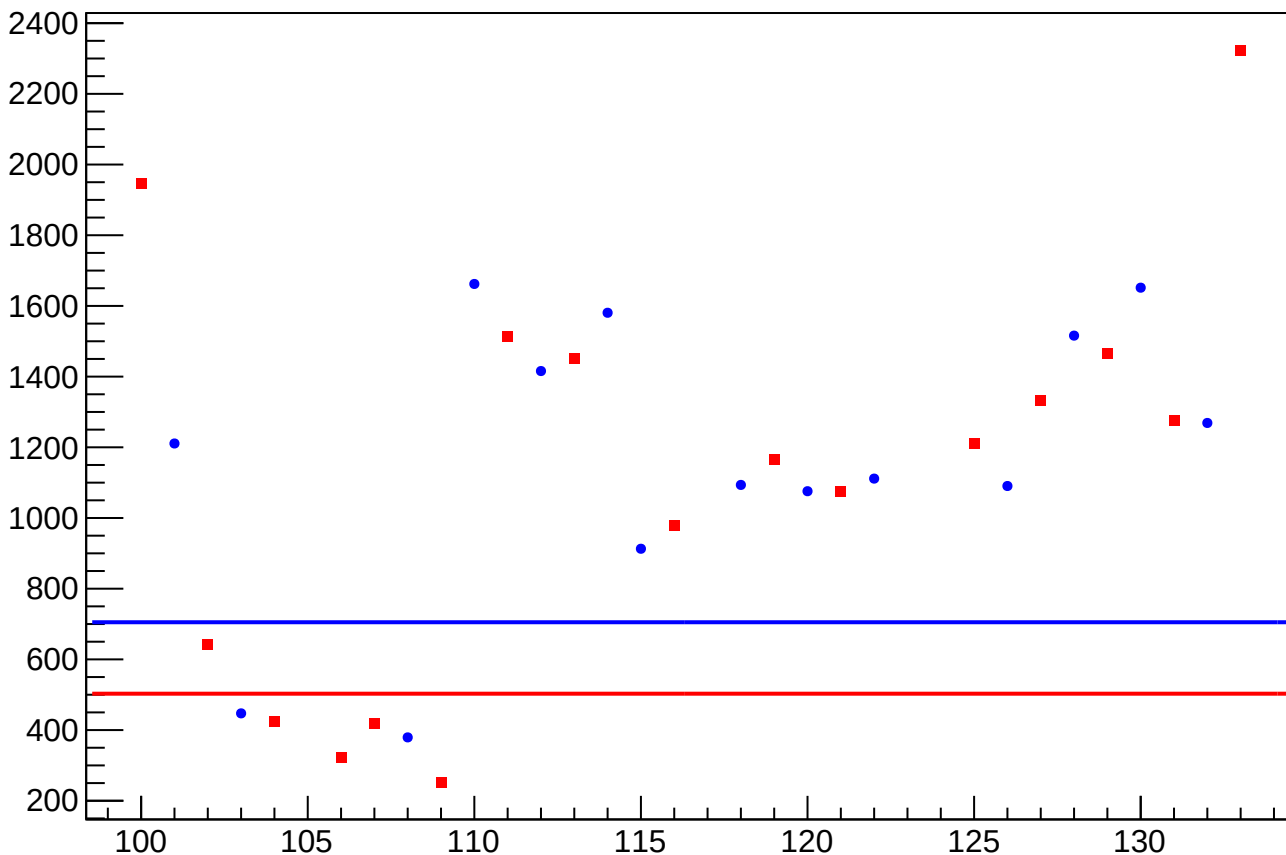
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 319.986+/-203.203  $\chi^2/\text{NDF}$ : 27.3/29

- 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: 705.051+/-0.237  $\chi^2/\text{NDF}$ : 3015922.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 502.915+/-0.181  $\chi^2/\text{NDF}$ : 4327413.0/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

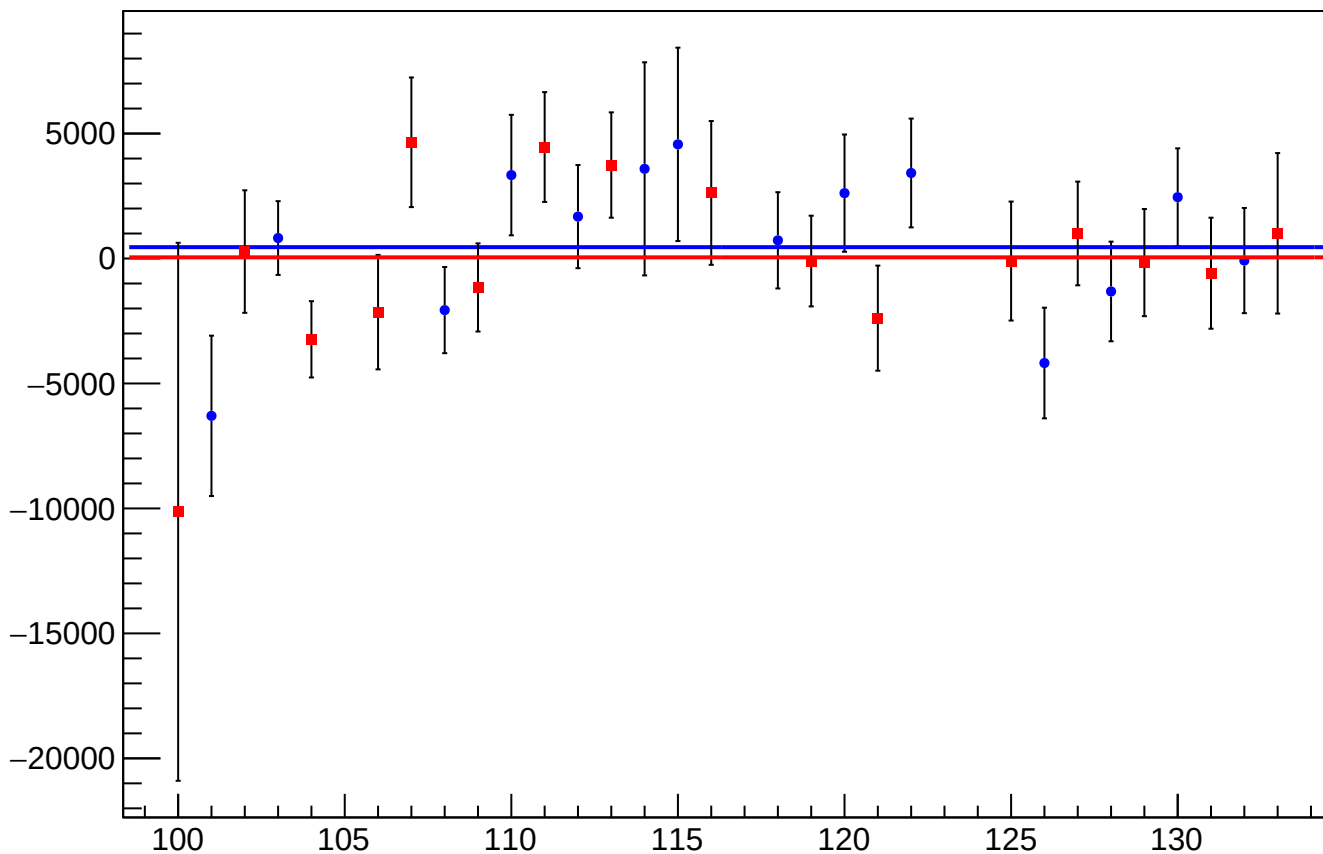
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 577.048+/-0.144  $\chi^2/\text{NDF}$ : 7802960.1/29

- 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: 453.938 $\pm$ 574.705  $\chi^2$ /NDF: 19.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 46.287 $\pm$ 552.660  $\chi^2$ /NDF: 19.7/15

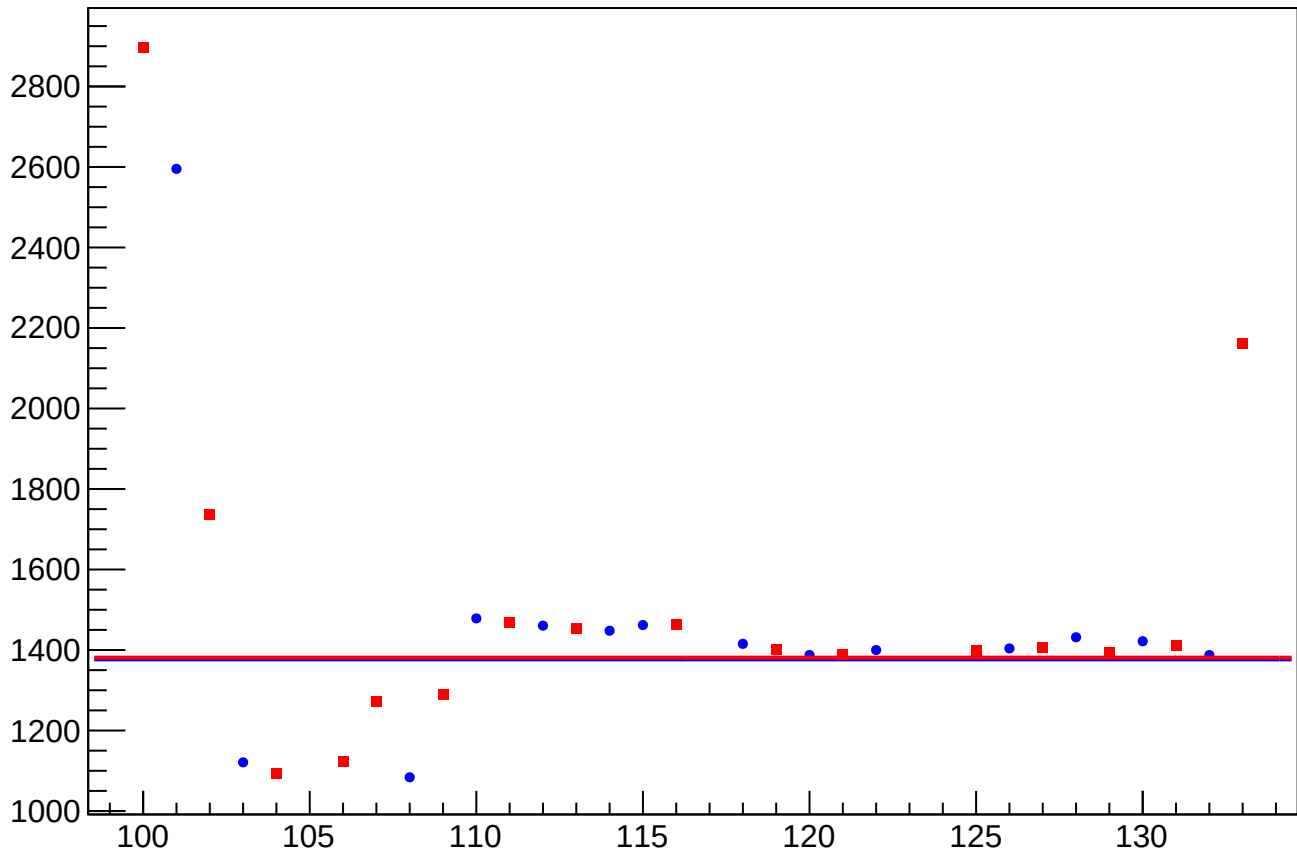
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 242.144 $\pm$ 398.355  $\chi^2$ /NDF: 39.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1376.766+/-0.406  $\chi^2/\text{NDF}$ : 418731.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1381.071+/-0.391  $\chi^2/\text{NDF}$ : 313271.8/15

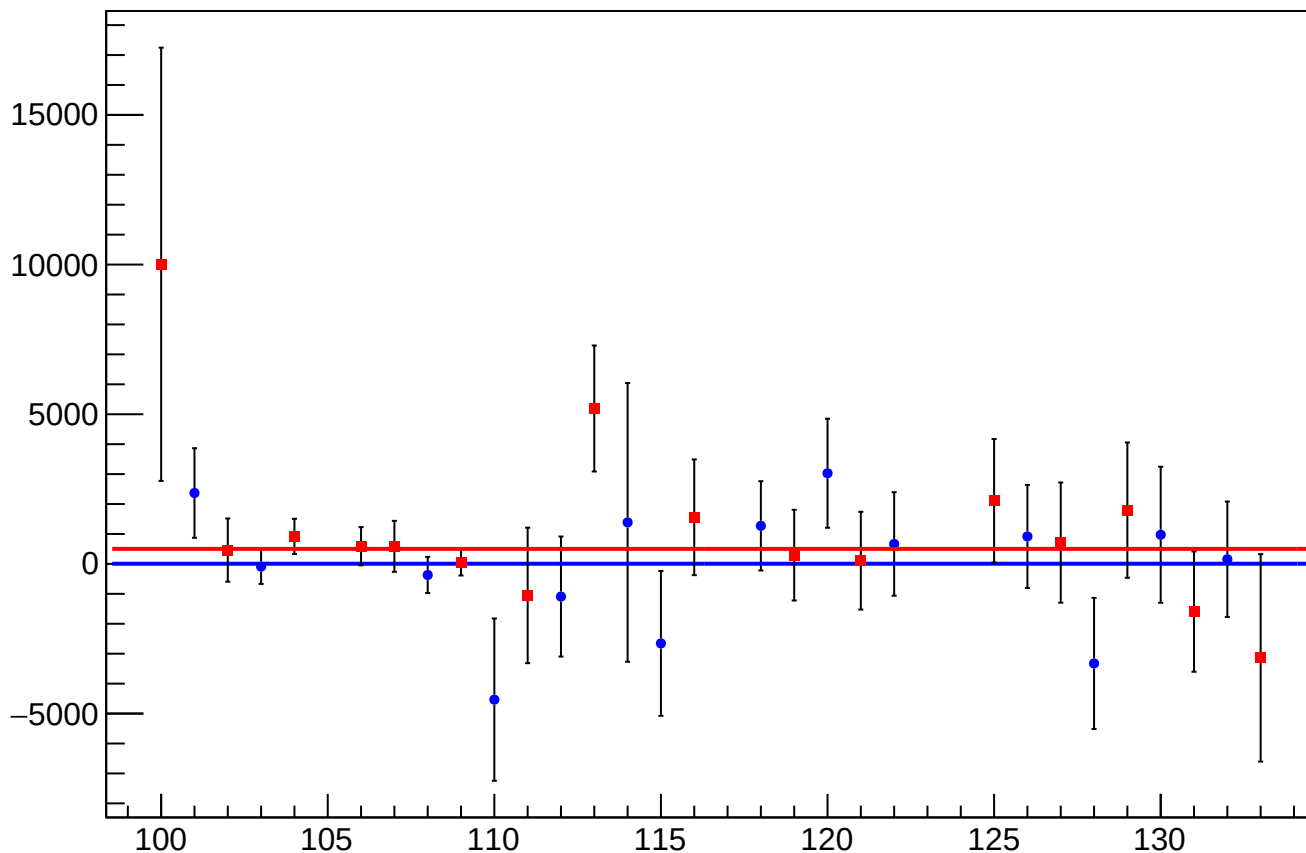
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1379.003+/-0.282  $\chi^2/\text{NDF}$ : 732061.5/29

- 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: 5.807+/-335.540  $\chi^2/\text{NDF}$ : 13.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 501.944+/-255.353  $\chi^2/\text{NDF}$ : 12.3/15

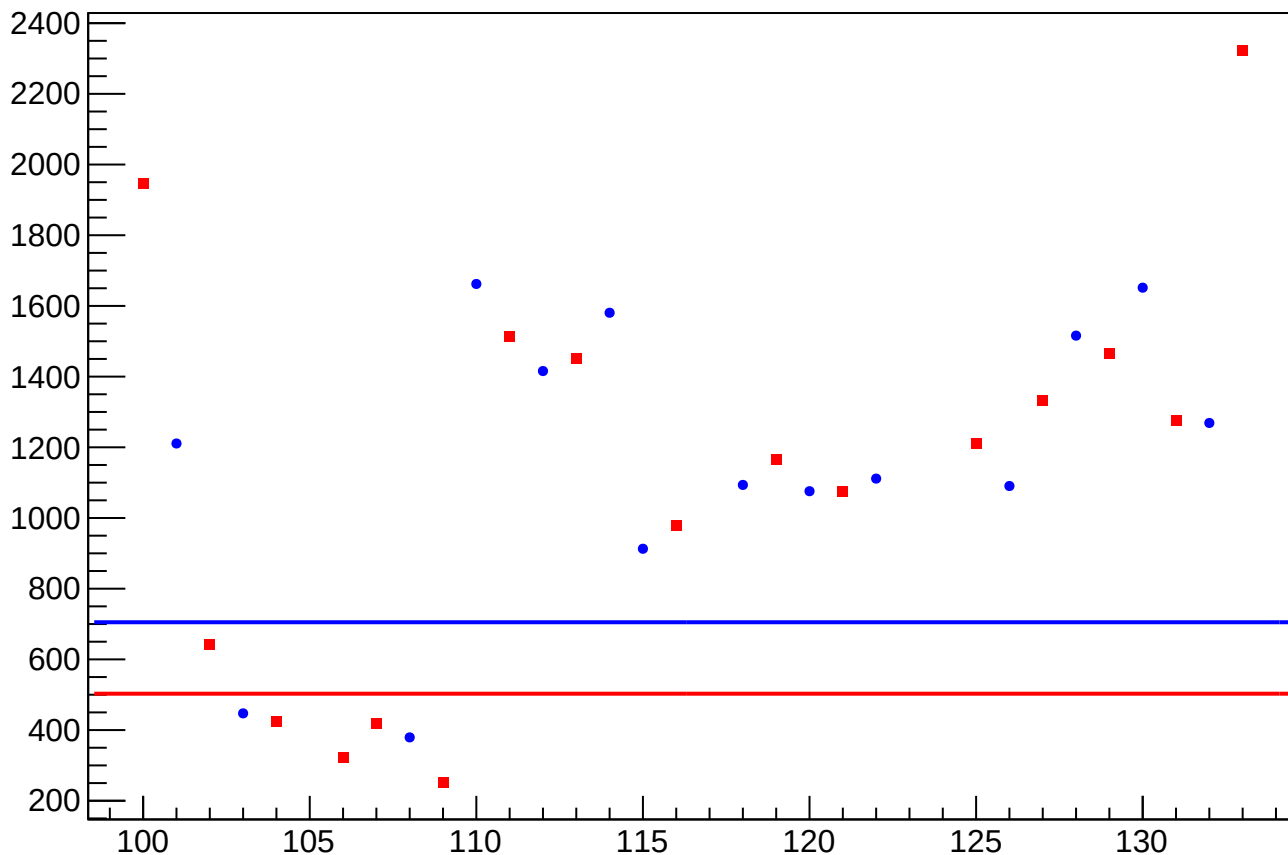
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 319.986+/-203.203  $\chi^2/\text{NDF}$ : 27.3/29

- 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: 705.051+/-0.237  $\chi^2/\text{NDF}$ : 3015922.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 502.915+/-0.181  $\chi^2/\text{NDF}$ : 4327413.0/15

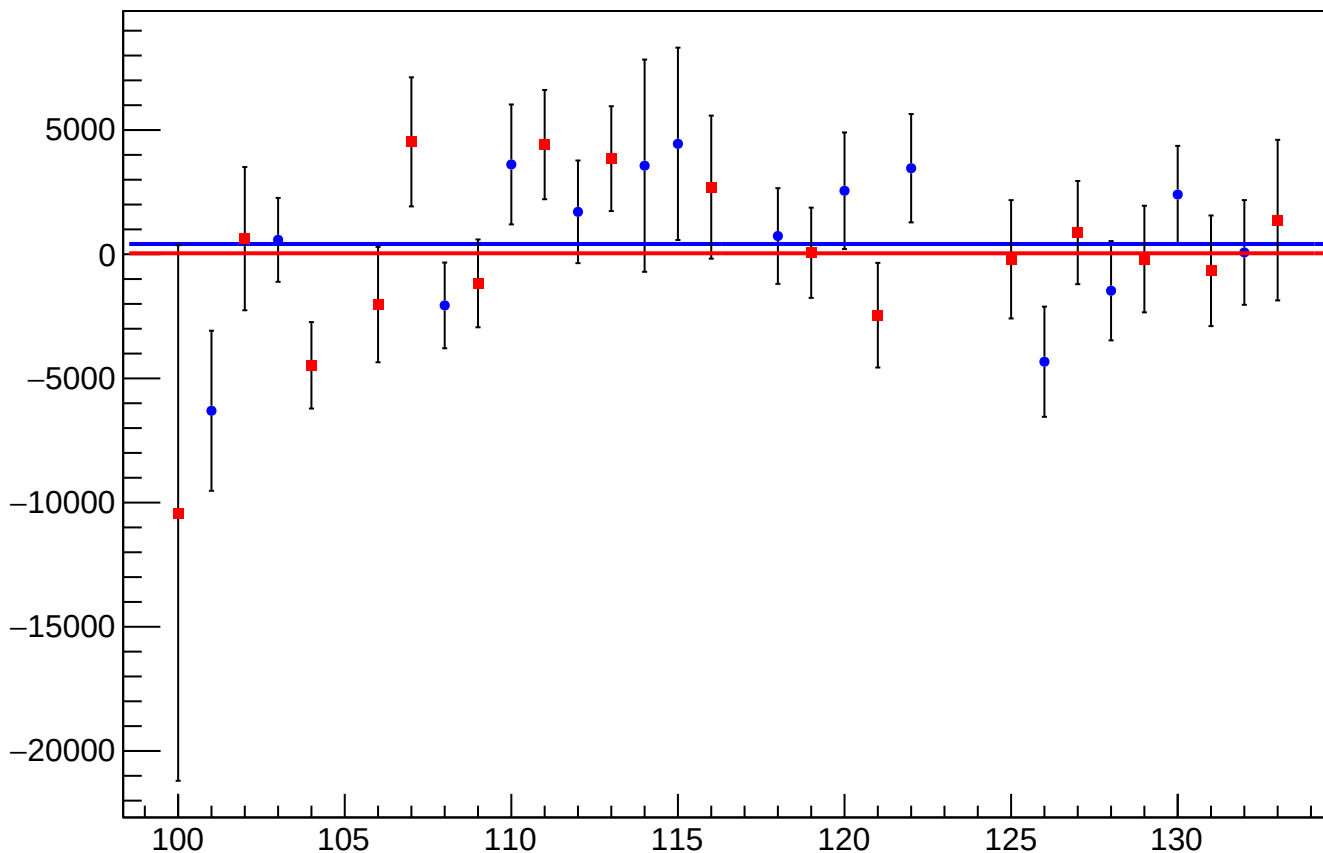
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 577.048+/-0.144  $\chi^2/\text{NDF}$ : 7802960.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 412.448 $\pm$ 586.204  $\chi^2$ /NDF: 19.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 37.960 $\pm$ 566.650  $\chi^2$ /NDF: 21.9/15

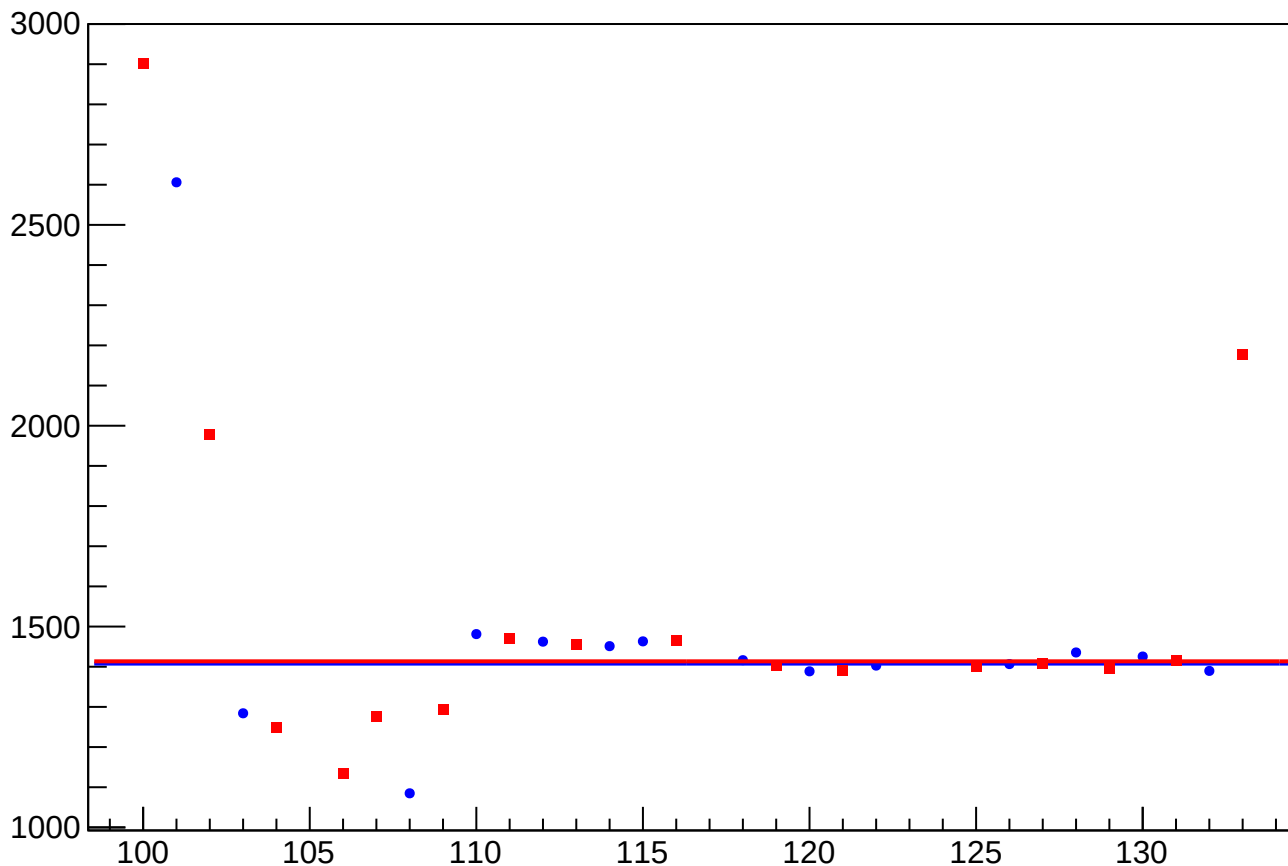
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 218.854 $\pm$ 407.419  $\chi^2$ /NDF: 41.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1407.829+/-0.415  $\chi^2/\text{NDF}$ : 361993.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1413.464+/-0.401  $\chi^2/\text{NDF}$ : 291591.5/15

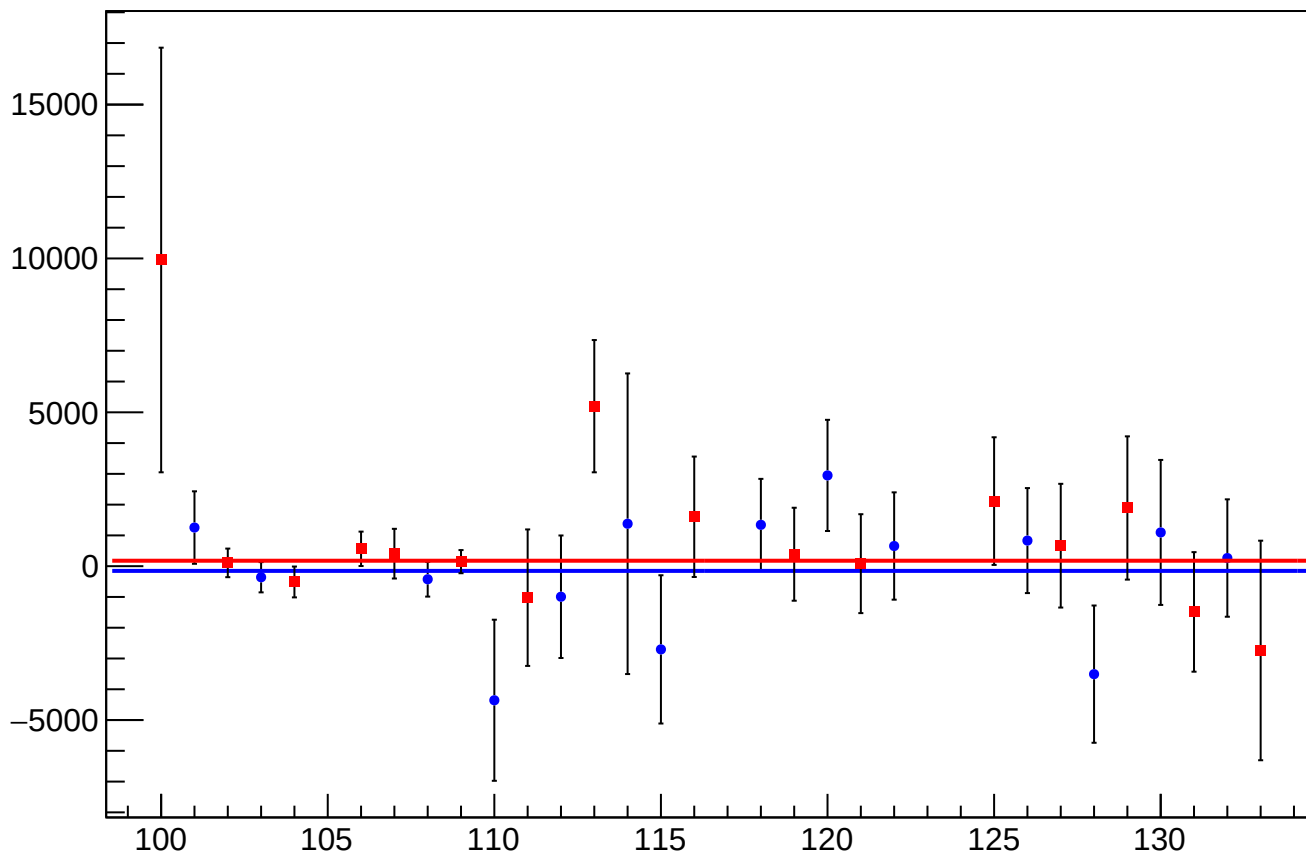
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1410.742+/-0.288  $\chi^2/\text{NDF}$ : 653680.0/29

- 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: -153.259+/-305.729  $\chi^2/\text{NDF}$ : 12.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 177.231+/-208.757  $\chi^2/\text{NDF}$ : 13.7/15

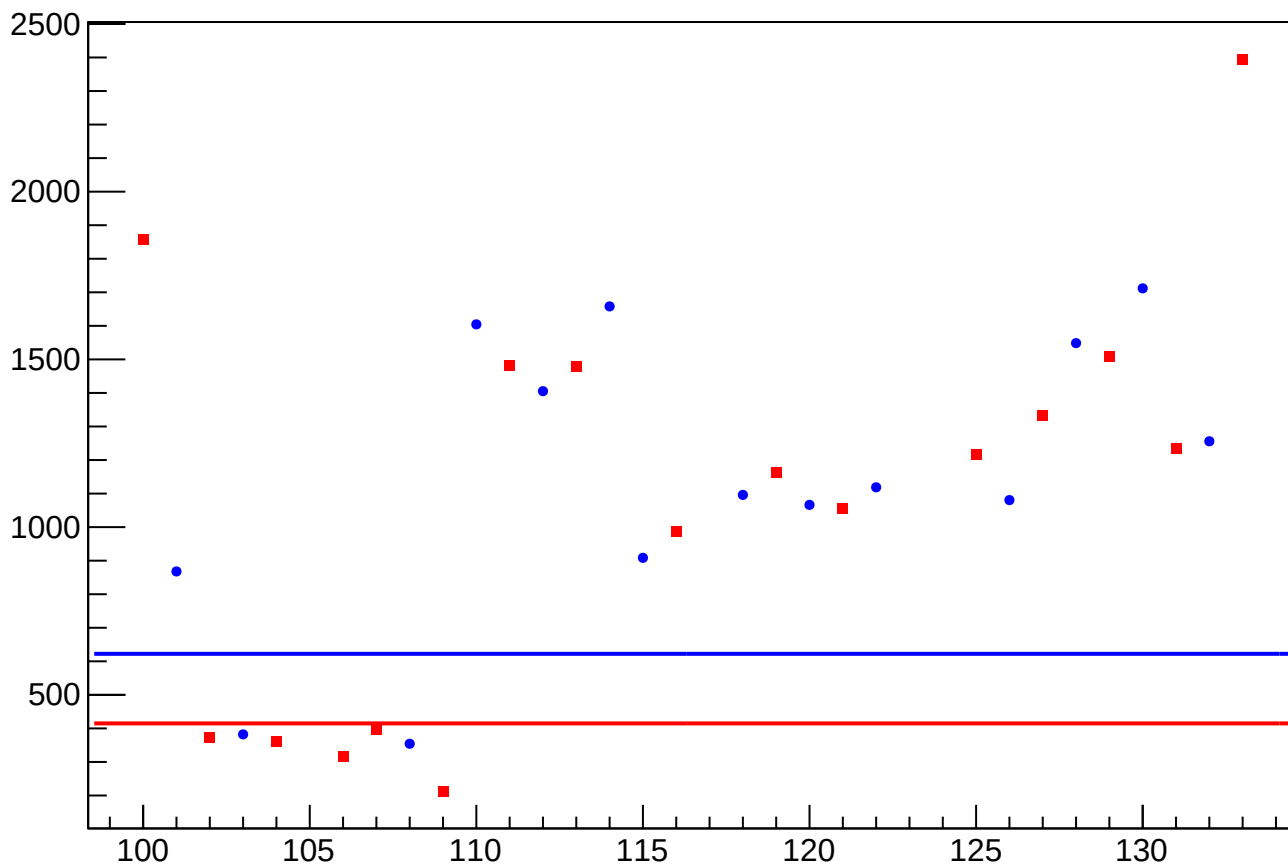
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 72.141+/-172.401  $\chi^2/\text{NDF}$ : 27.4/29

- 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: 622.347+/-0.216  $\chi^2/\text{NDF}$ : 3346730.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 414.969+/-0.148  $\chi^2/\text{NDF}$ : 4835393.7/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

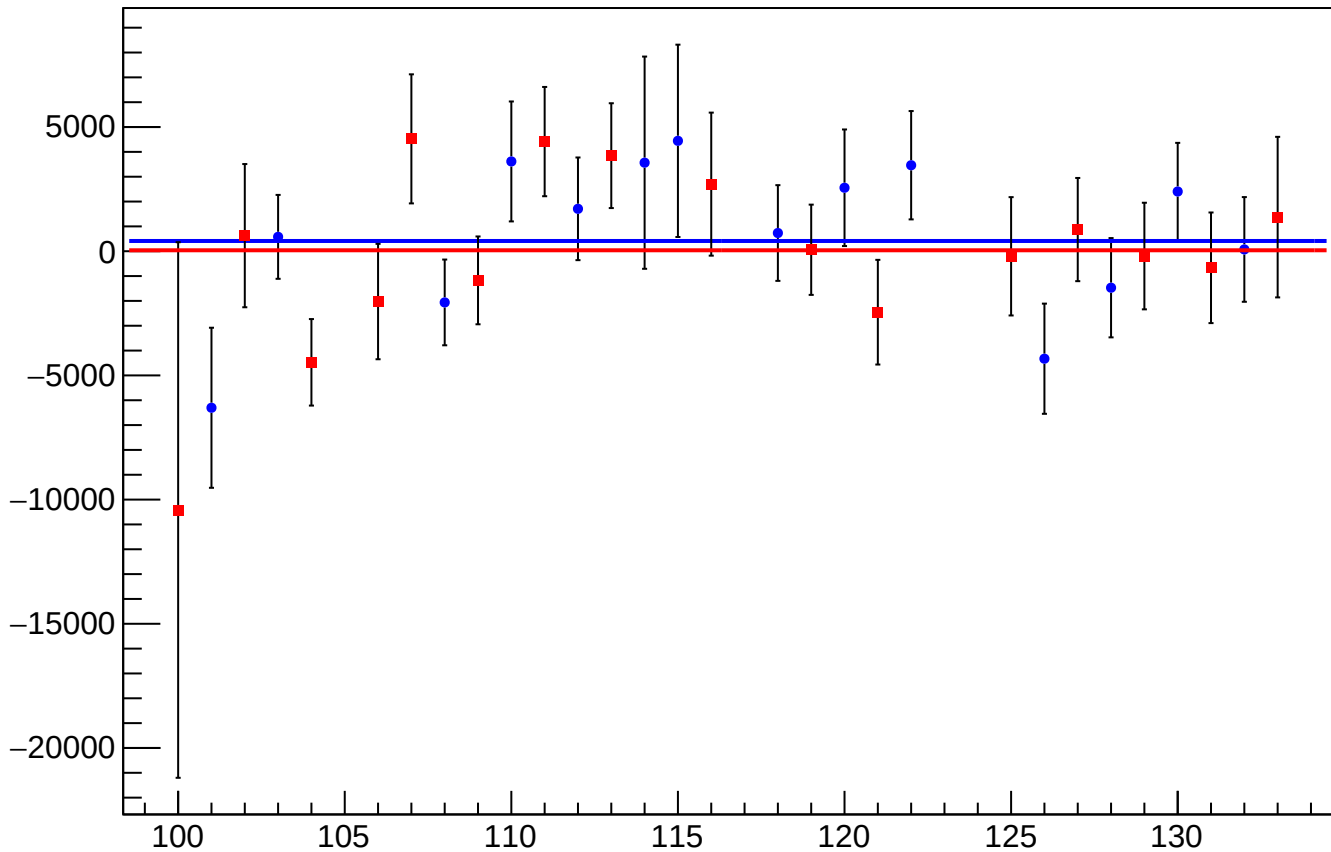
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 480.912+/-0.122  $\chi^2/\text{NDF}$ : 8809713.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 412.441 $\pm$ 586.204  $\chi^2$ /NDF: 19.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 37.959 $\pm$ 566.650  $\chi^2$ /NDF: 21.9/15

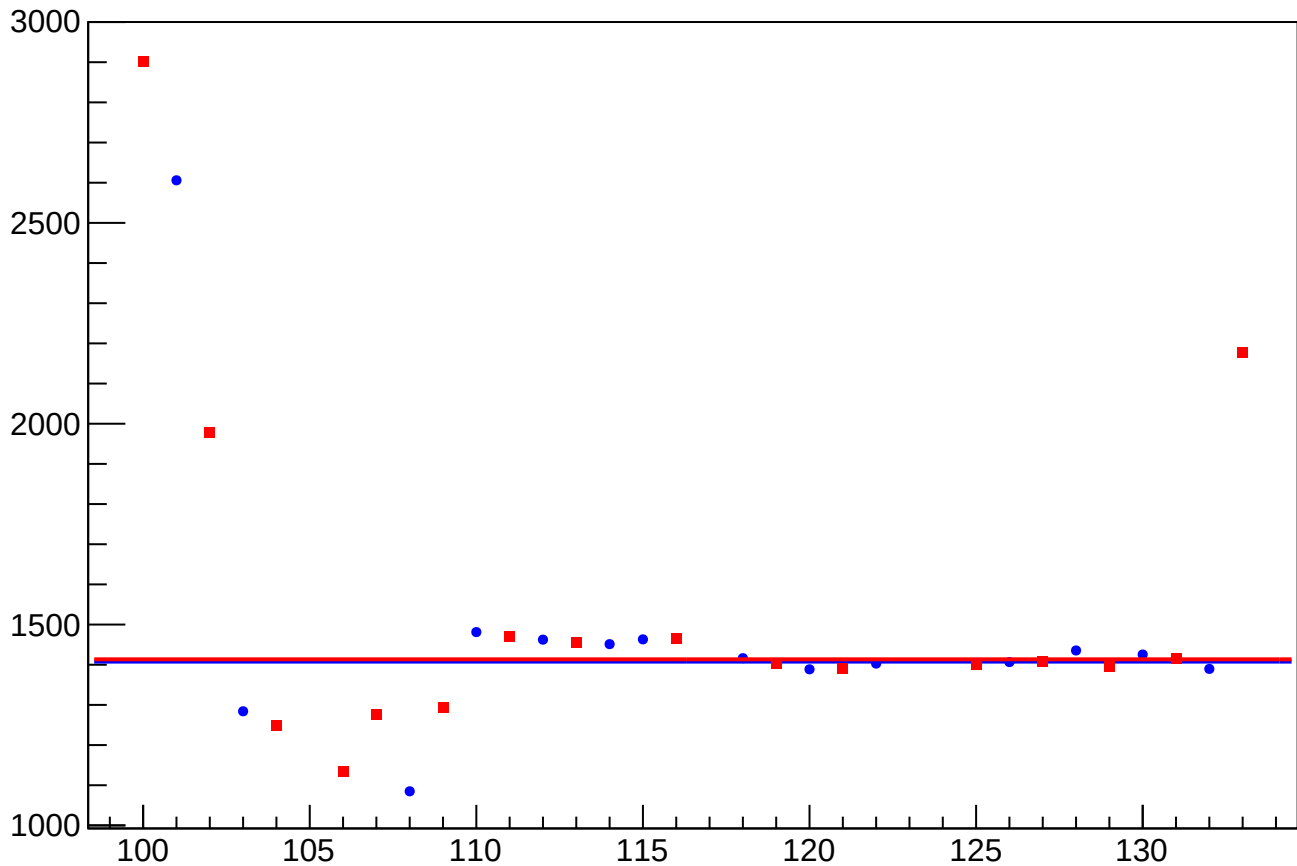
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 218.850 $\pm$ 407.419  $\chi^2$ /NDF: 41.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1407.829+/-0.415  $\chi^2/\text{NDF}$ : 361992.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1413.464+/-0.401  $\chi^2/\text{NDF}$ : 291591.5/15

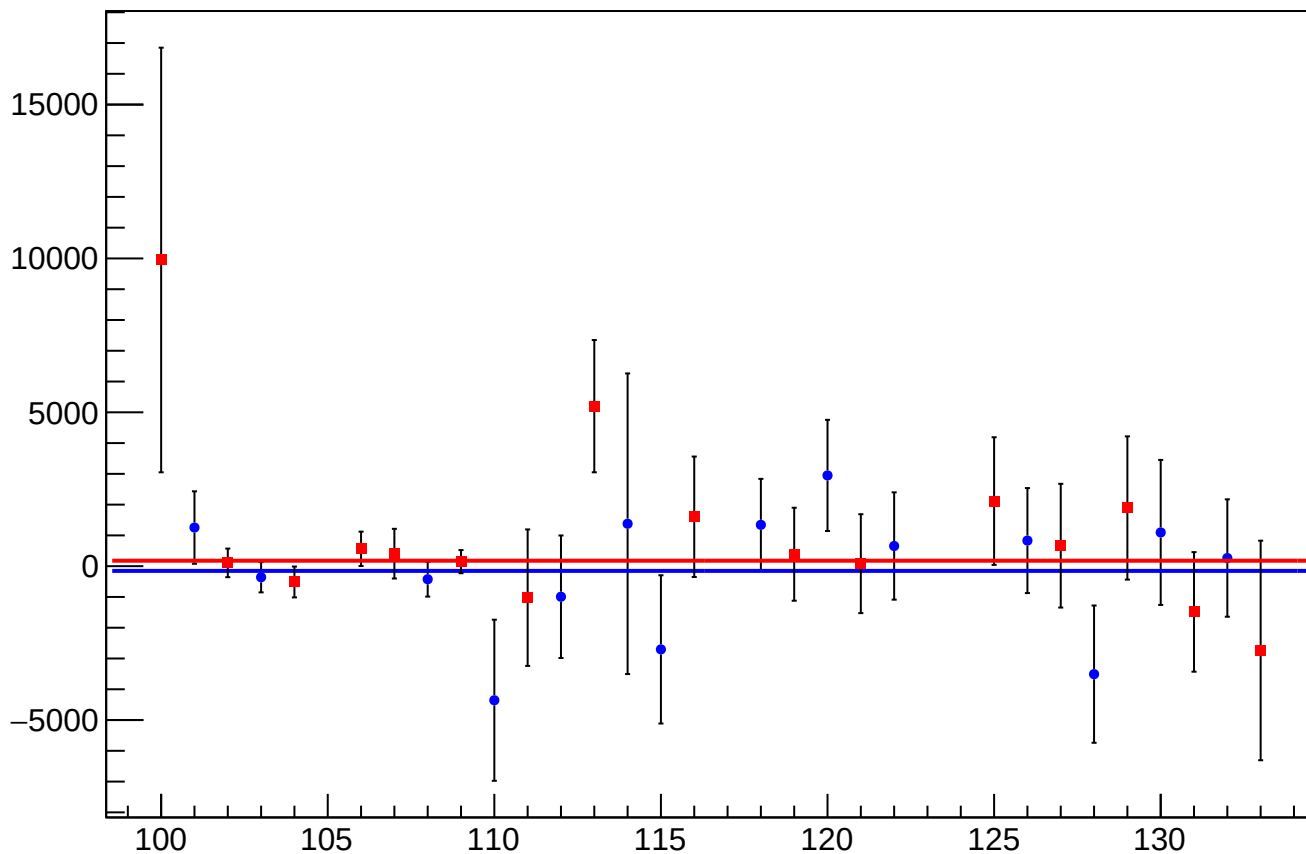
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1410.742+/-0.288  $\chi^2/\text{NDF}$ : 653679.6/29

- 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: -153.267+/-305.725  $\chi^2/\text{NDF}$ : 12.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 177.226+/-208.758  $\chi^2/\text{NDF}$ : 13.7/15

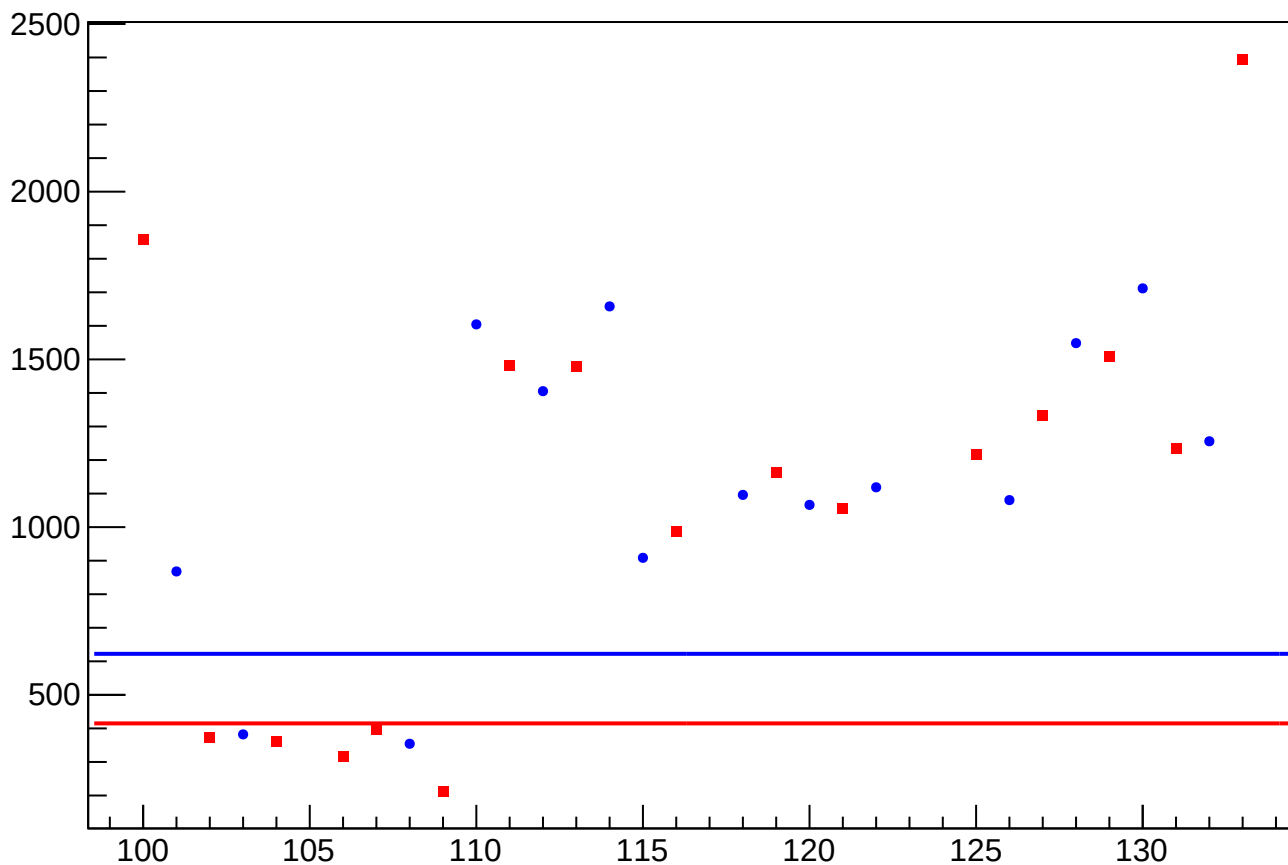
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 72.132+/-172.401  $\chi^2/\text{NDF}$ : 27.4/29

- 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: 622.337+/-0.216  $\chi^2/\text{NDF}$ : 3346799.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 414.974+/-0.148  $\chi^2/\text{NDF}$ : 4835307.7/15

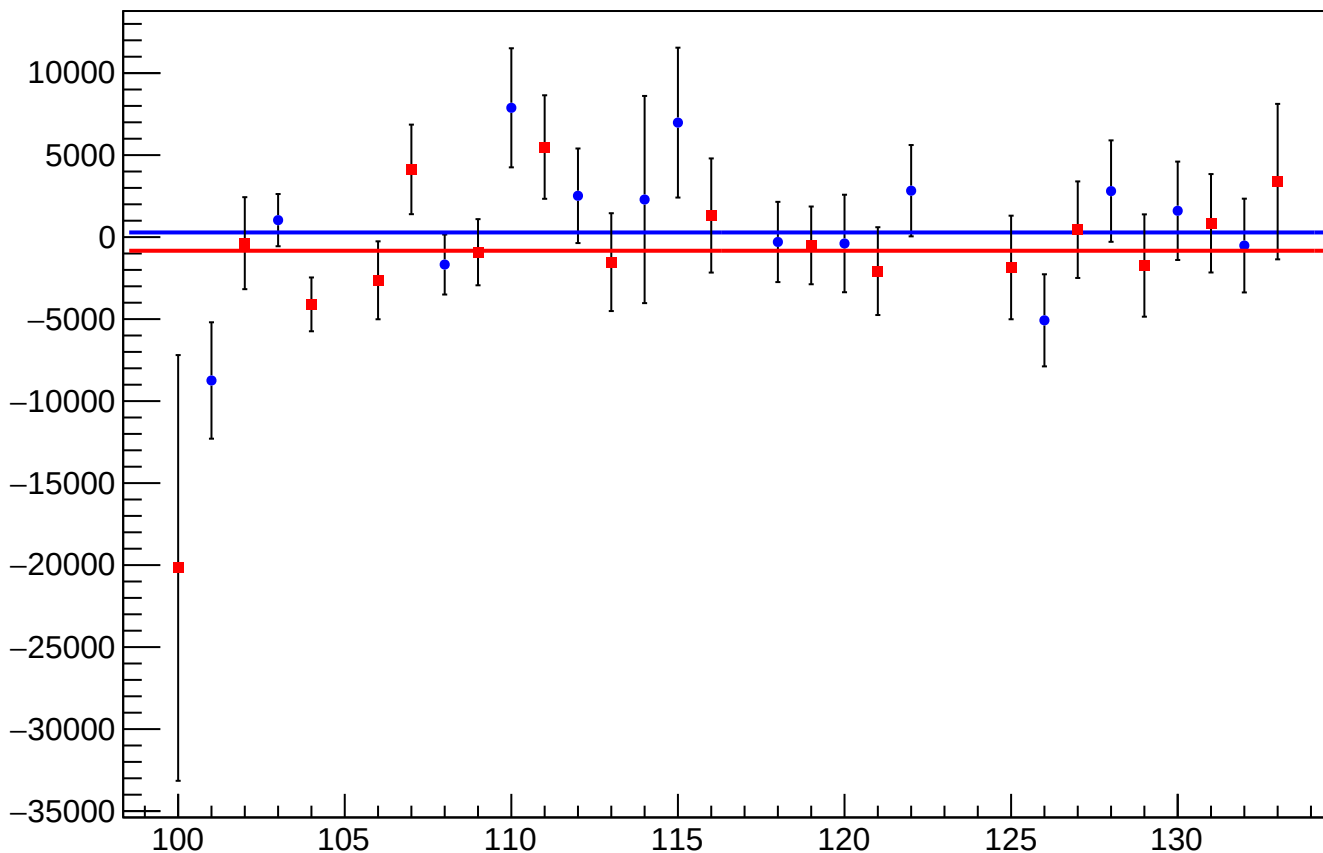
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 480.914+/-0.122  $\chi^2/\text{NDF}$ : 8809614.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug



Right In: 283.849+/-722.471  $\chi^2/\text{NDF}$ : 20.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -831.999+/-682.277  $\chi^2/\text{NDF}$ : 16.3/15

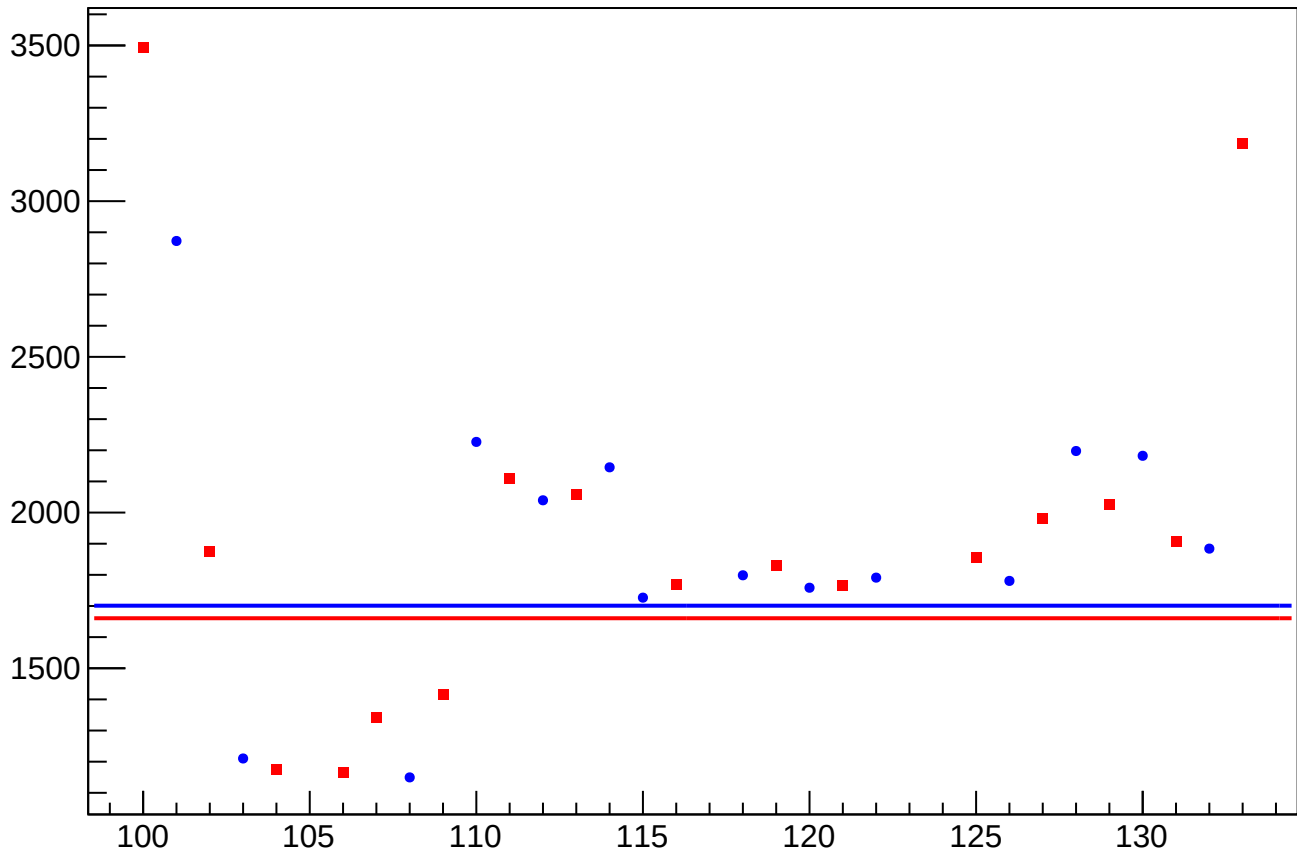
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -305.977+/-496.044  $\chi^2/\text{NDF}$ : 38.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug



Right In: 1700.934+/-0.511  $\chi^2/\text{NDF}$ : 787941.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1660.629+/-0.482  $\chi^2/\text{NDF}$ : 740240.9/15

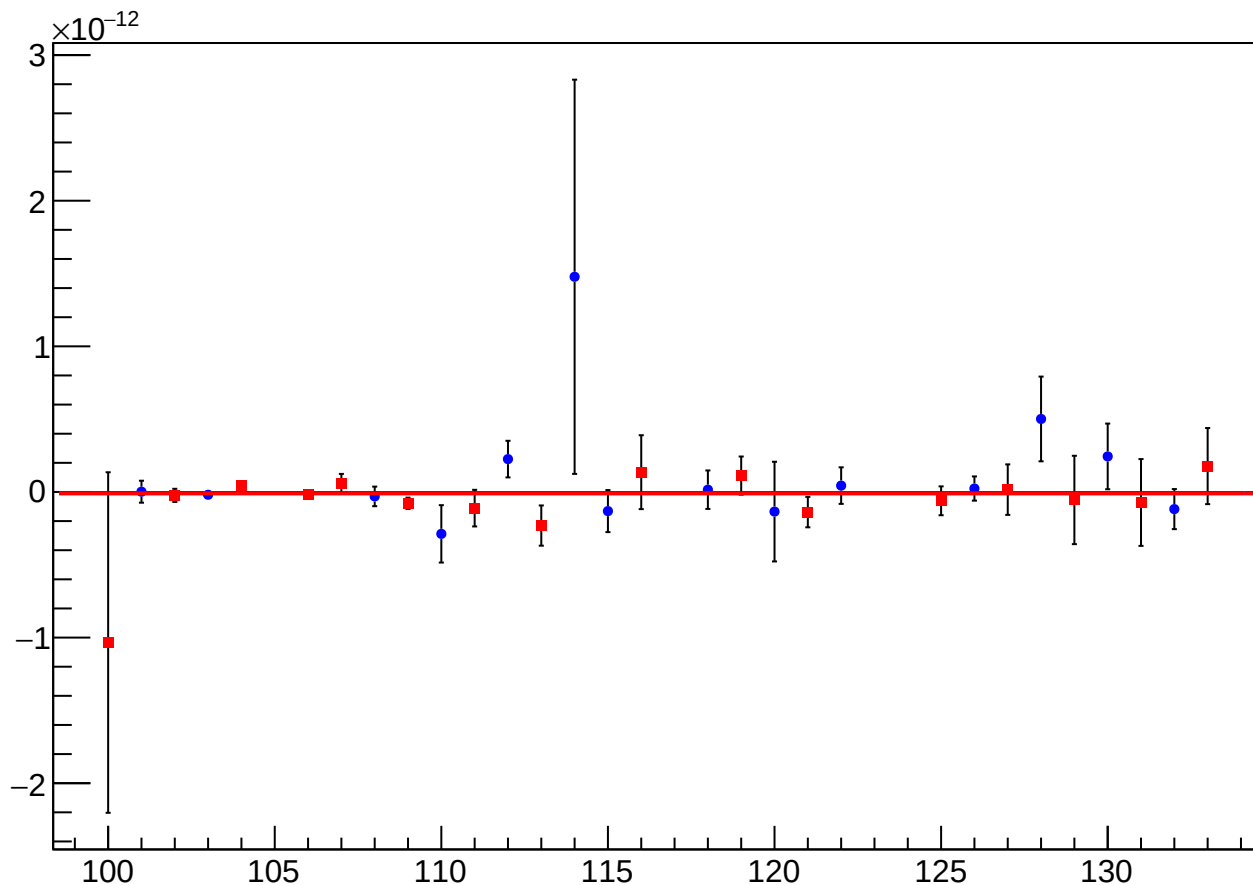
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1679.629+/-0.351  $\chi^2/\text{NDF}$ : 1531473.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 13.1/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 15.7/15

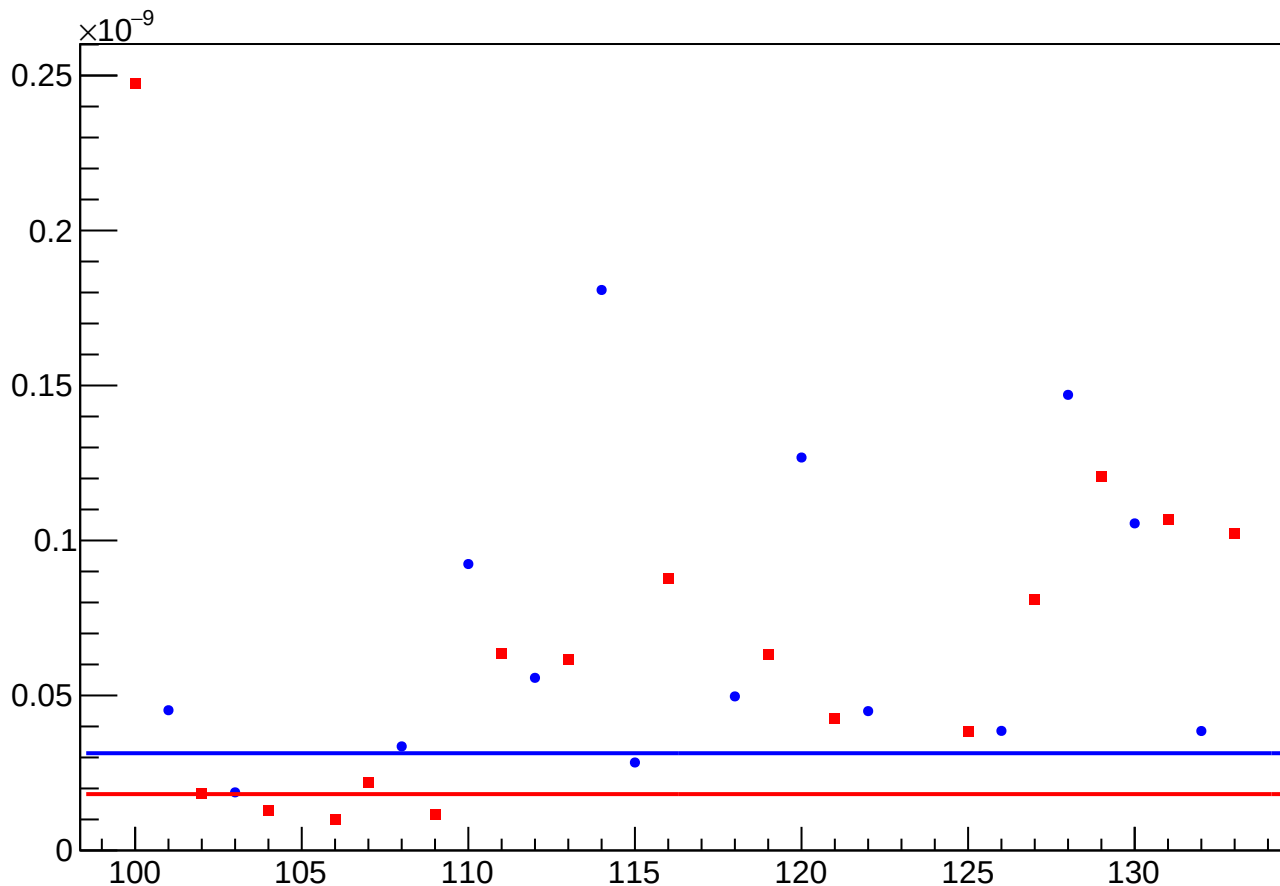
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 28.8/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1458637.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2267187.3/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

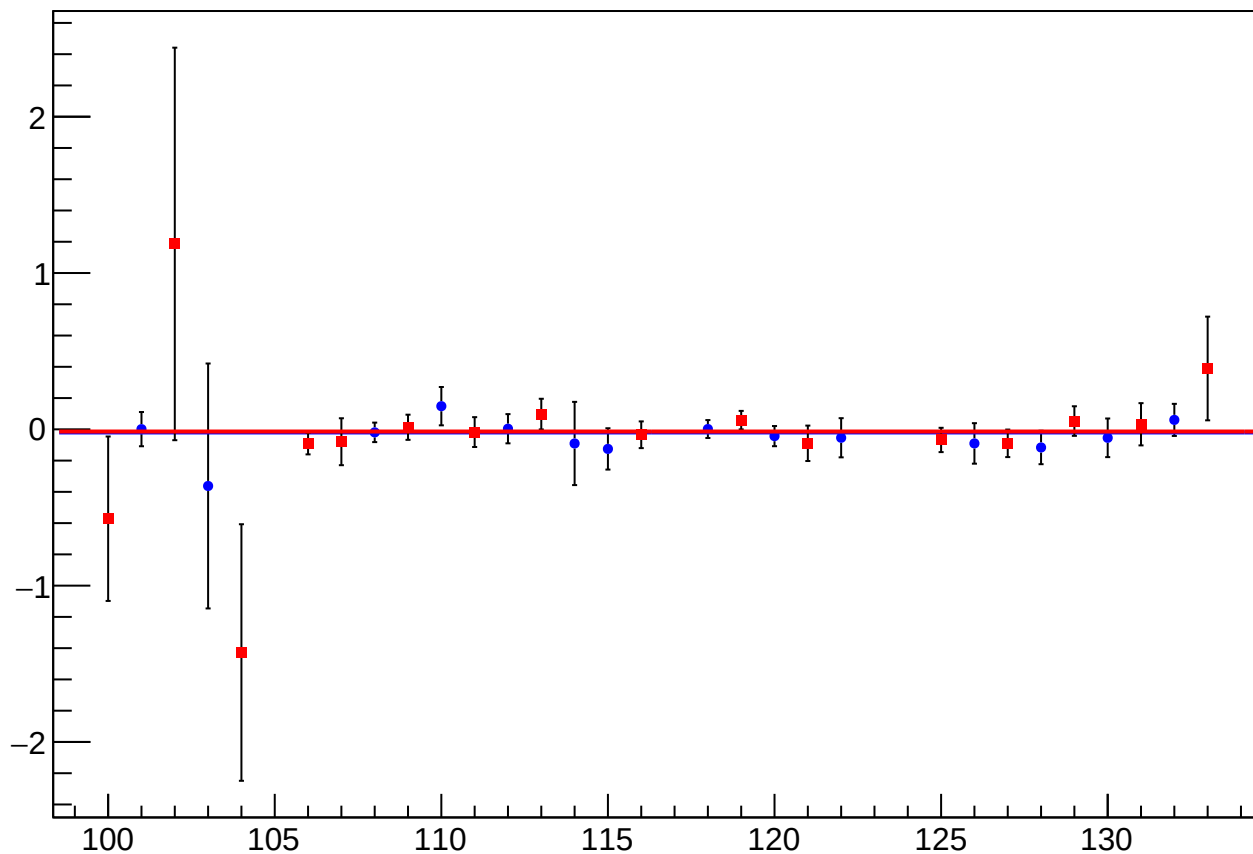
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4181586.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_us\_dd\_at2lr\_dd\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.020 \pm 0.026$   $\chi^2/\text{NDF}: 5.0/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.014 \pm 0.025$   $\chi^2/\text{NDF}: 13.2/15$

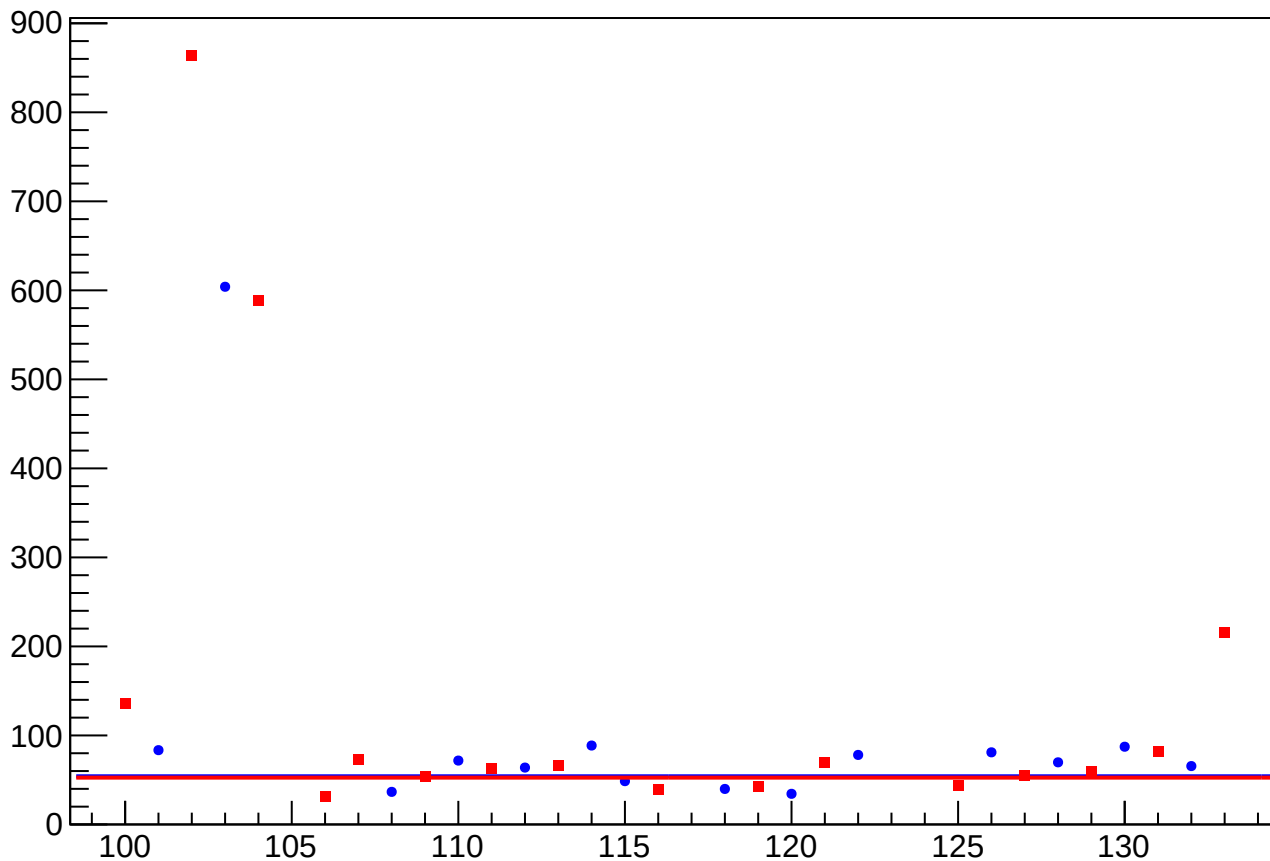
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.017 \pm 0.018$   $\chi^2/\text{NDF}: 18.2/29$

- 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: 54.130+/-0.018  $\chi^2/\text{NDF}$ : 2067965.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.610+/-0.018  $\chi^2/\text{NDF}$ : 2792156.8/15

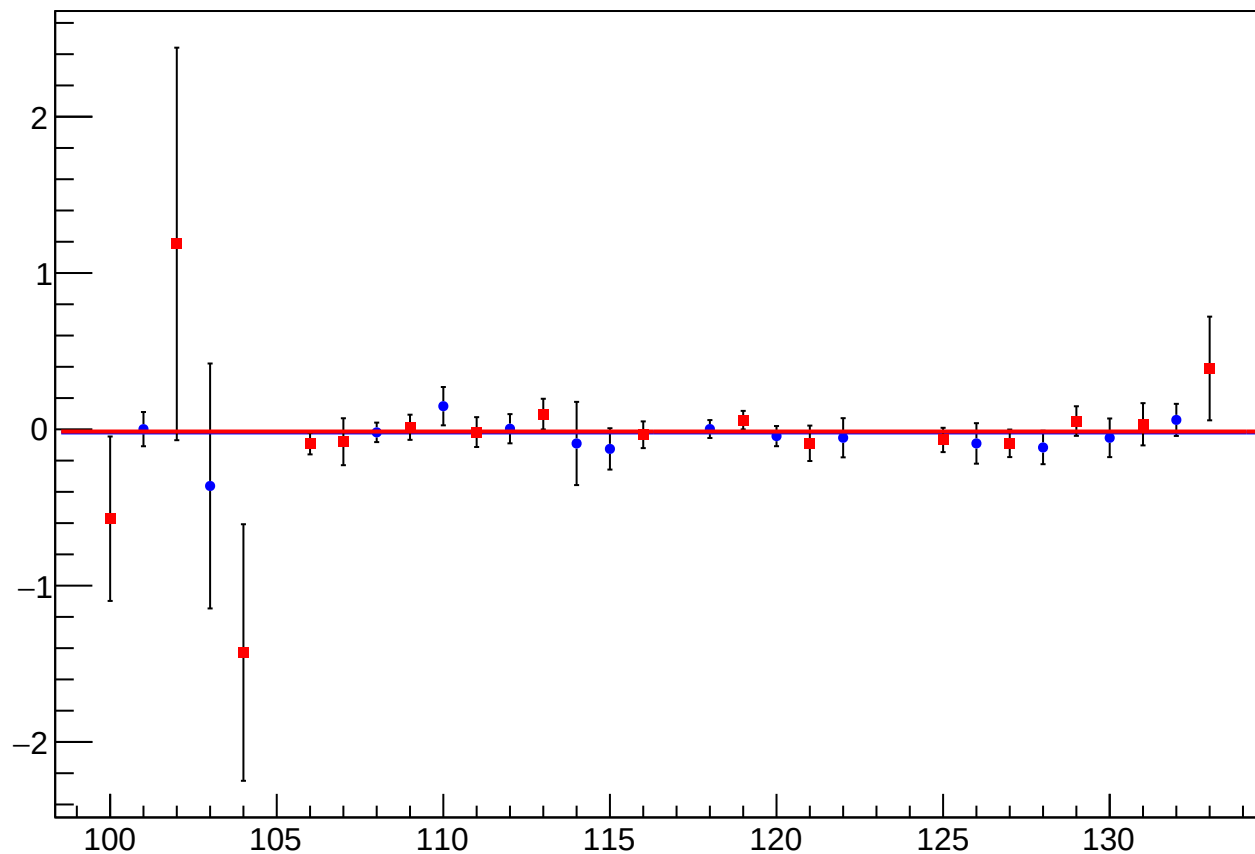
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.348+/-0.013  $\chi^2/\text{NDF}$ : 4863711.3/29

- 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:  $-0.020 \pm 0.026$   $\chi^2/\text{NDF}: 5.0/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.014 \pm 0.025$   $\chi^2/\text{NDF}: 13.2/15$

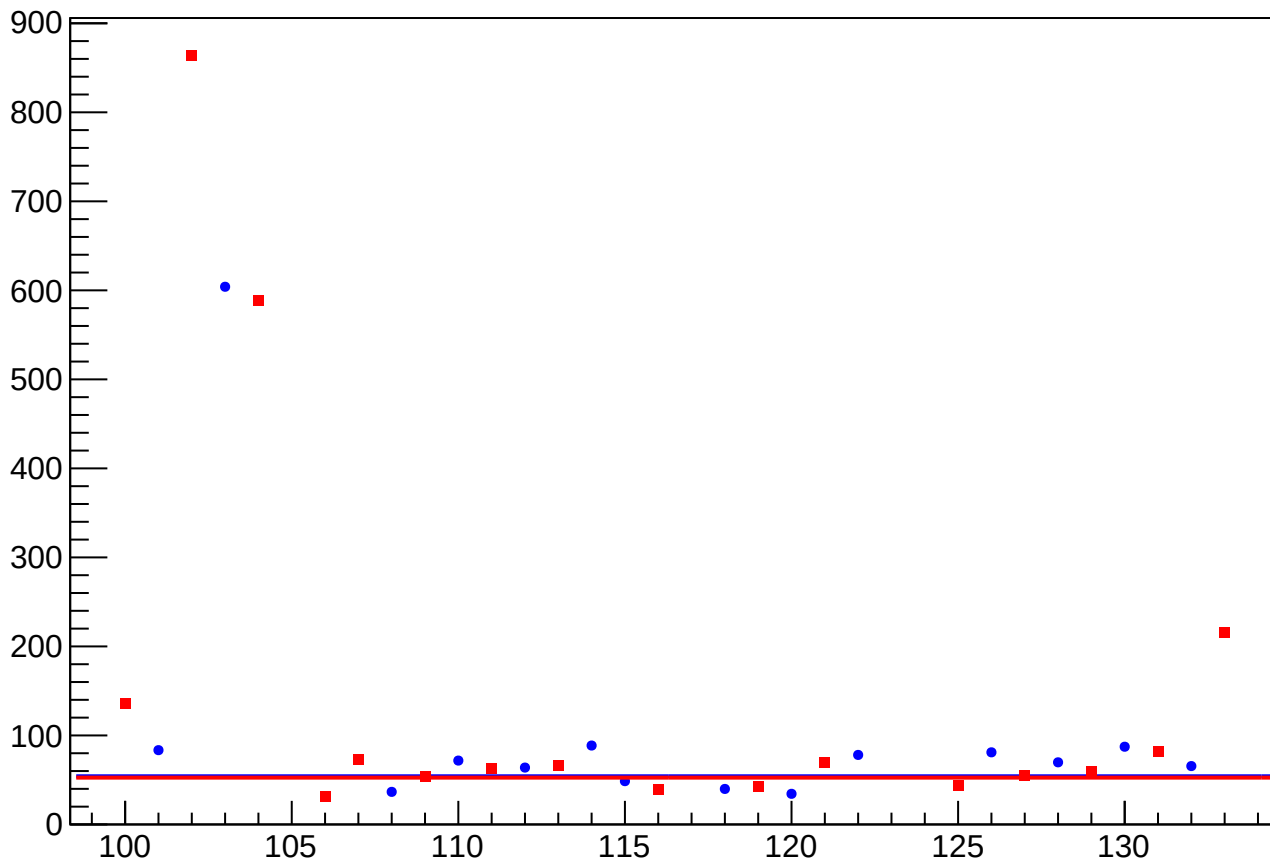
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.017 \pm 0.018$   $\chi^2/\text{NDF}: 18.2/29$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 54.130+/-0.018  $\chi^2/\text{NDF}$ : 2067965.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.610+/-0.018  $\chi^2/\text{NDF}$ : 2792156.8/15

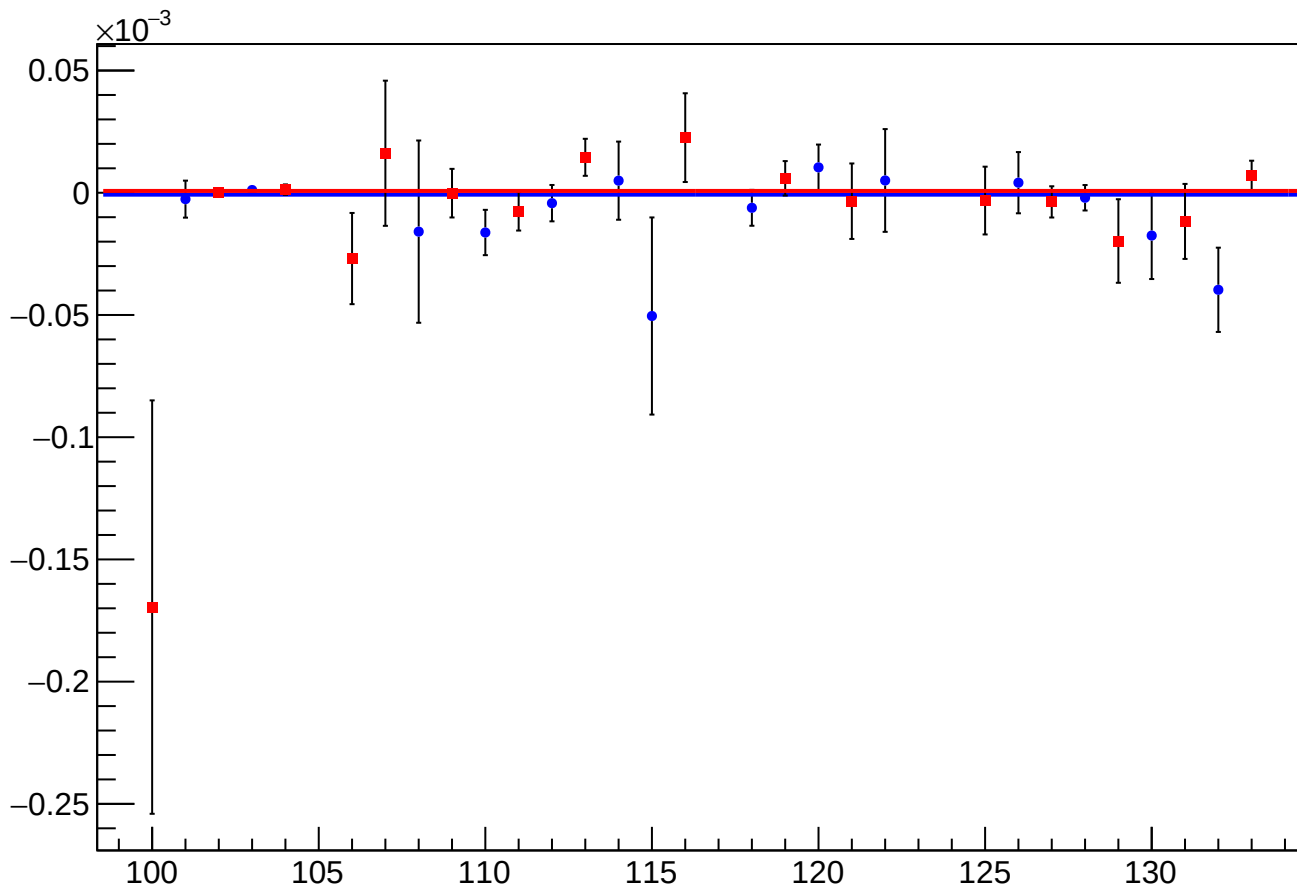
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.348+/-0.013  $\chi^2/\text{NDF}$ : 4863711.3/29

- 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+/-0.000  $\chi^2/\text{NDF}$ : 14.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.9/15

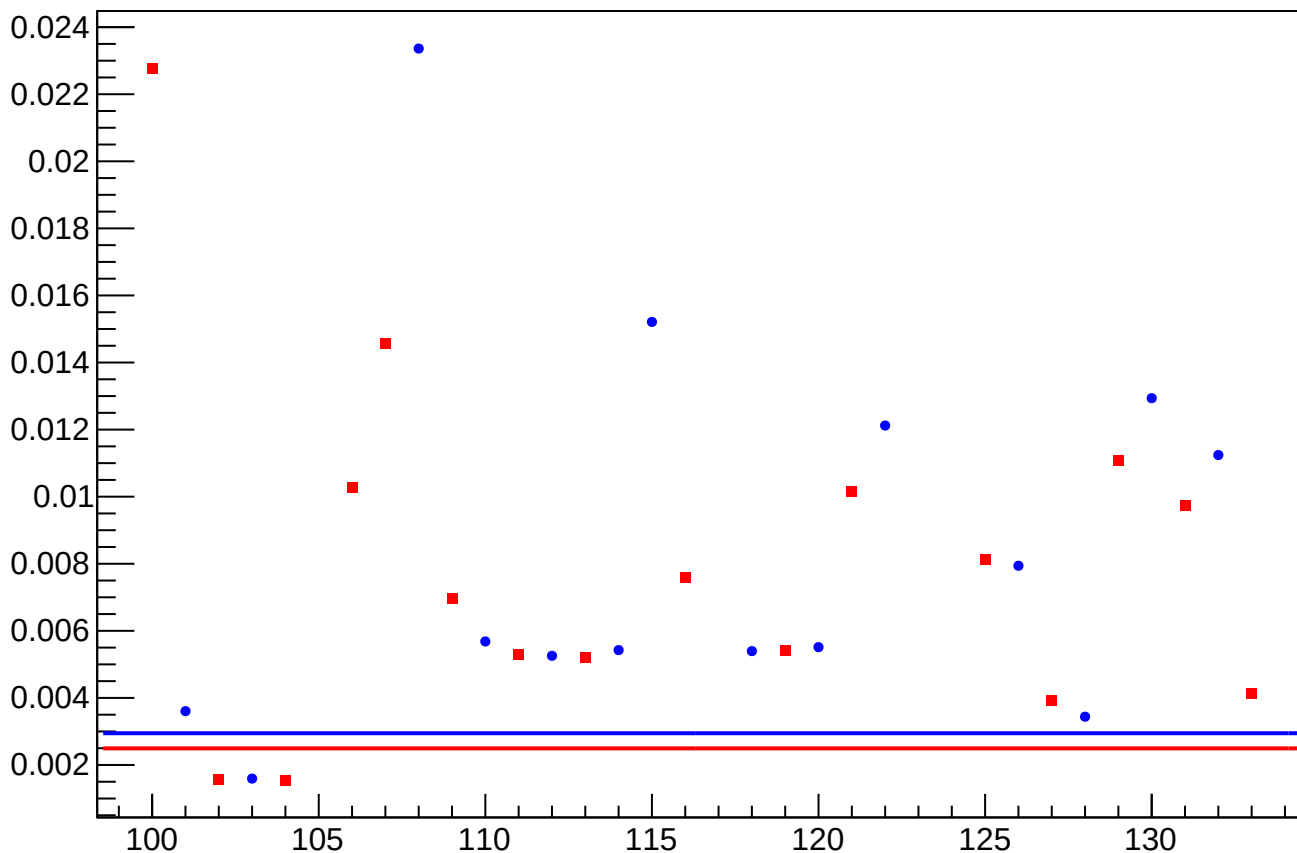
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 31.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 4272199.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 5074752.1/15

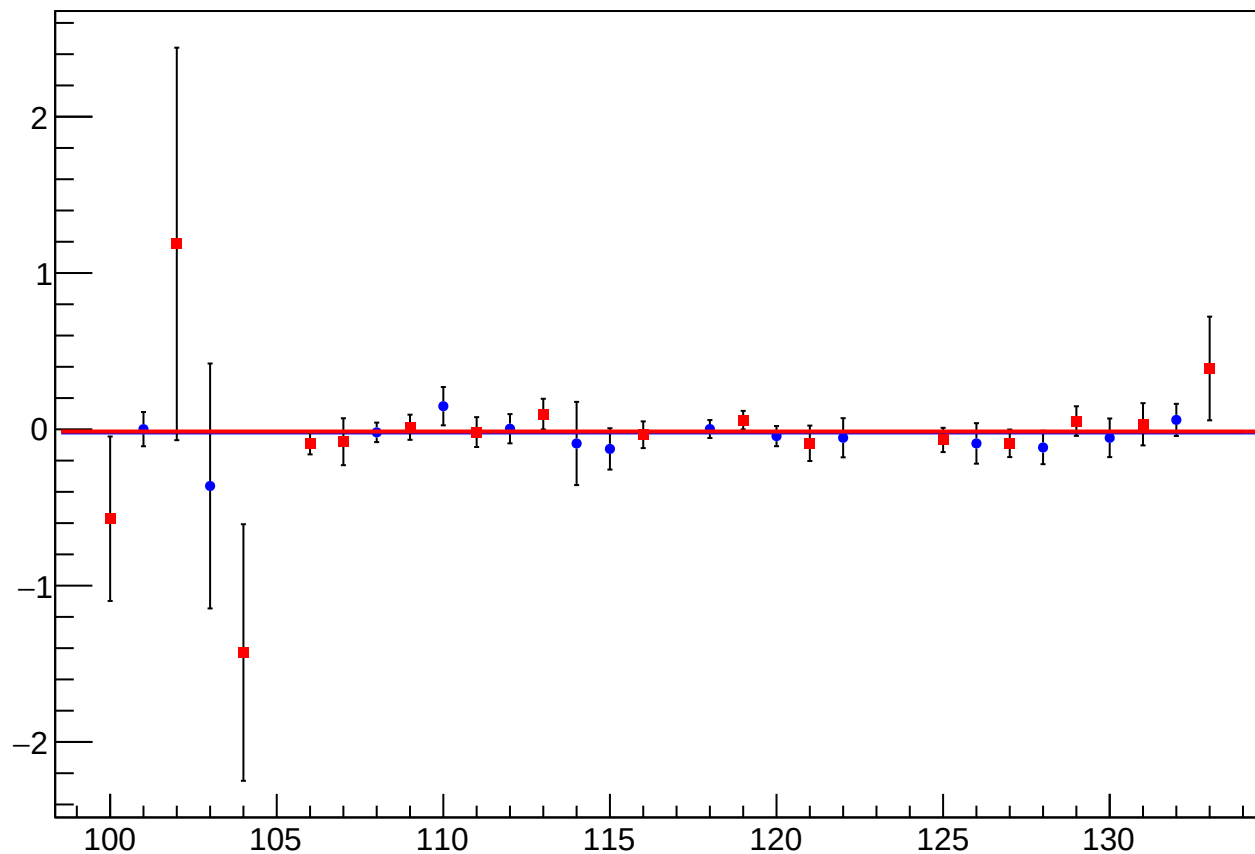
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 9442052.2/29

- 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:  $-0.020 \pm 0.026$   $\chi^2/\text{NDF}$ : 5.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.014 \pm 0.025$   $\chi^2/\text{NDF}$ : 13.2/15

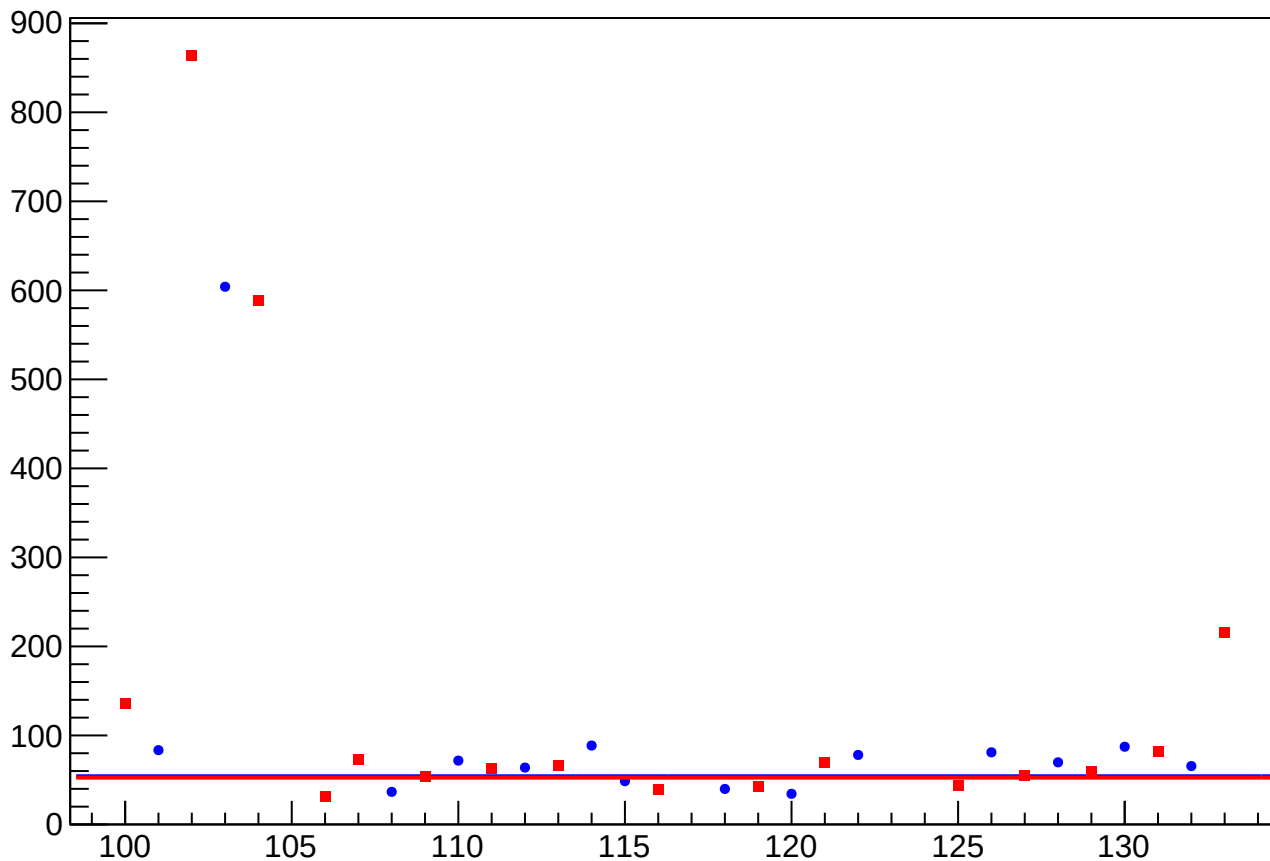
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.017 \pm 0.018$   $\chi^2/\text{NDF}$ : 18.2/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 54.134+/-0.018  $\chi^2/\text{NDF}$ : 2067567.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.611+/-0.018  $\chi^2/\text{NDF}$ : 2791914.1/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

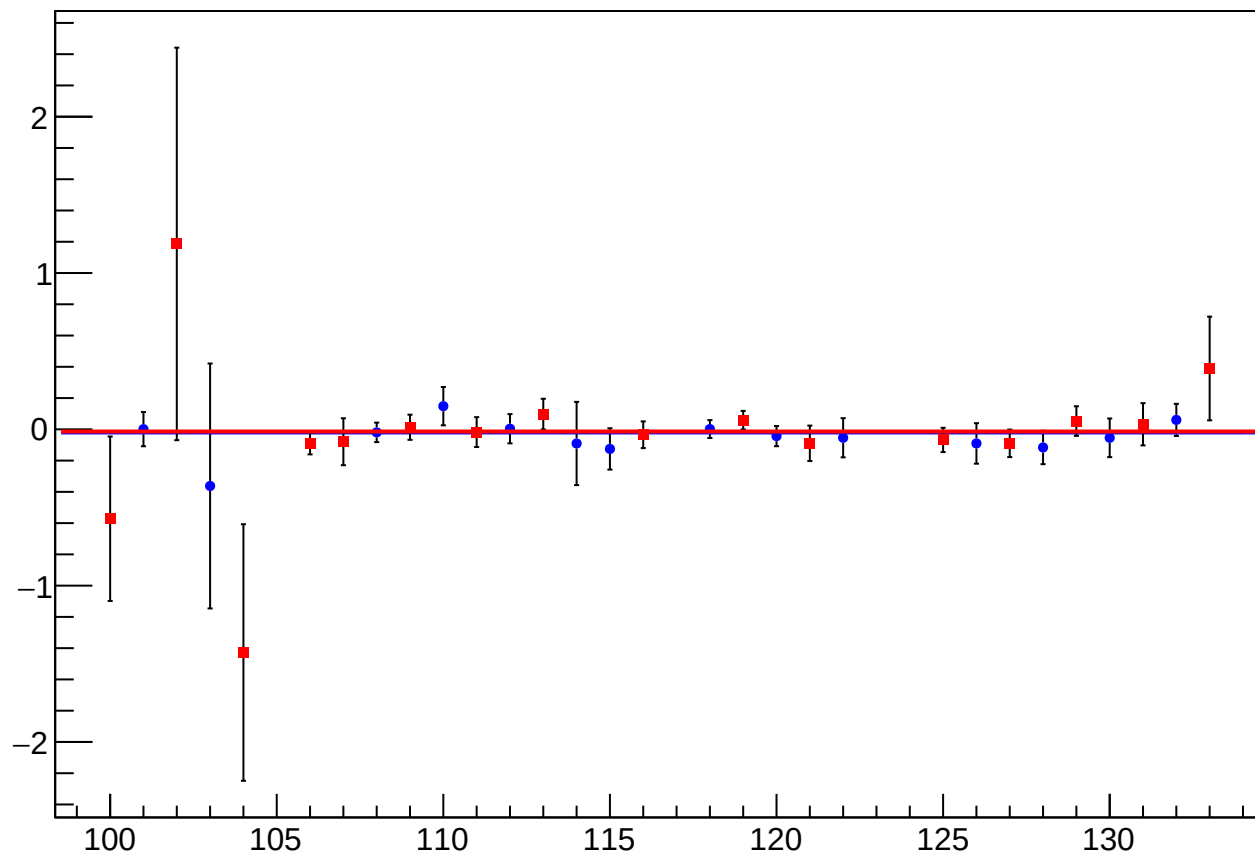
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.351+/-0.013  $\chi^2/\text{NDF}$ : 4863083.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.020 \pm 0.026$   $\chi^2/\text{NDF}$ : 5.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.014 \pm 0.025$   $\chi^2/\text{NDF}$ : 13.2/15

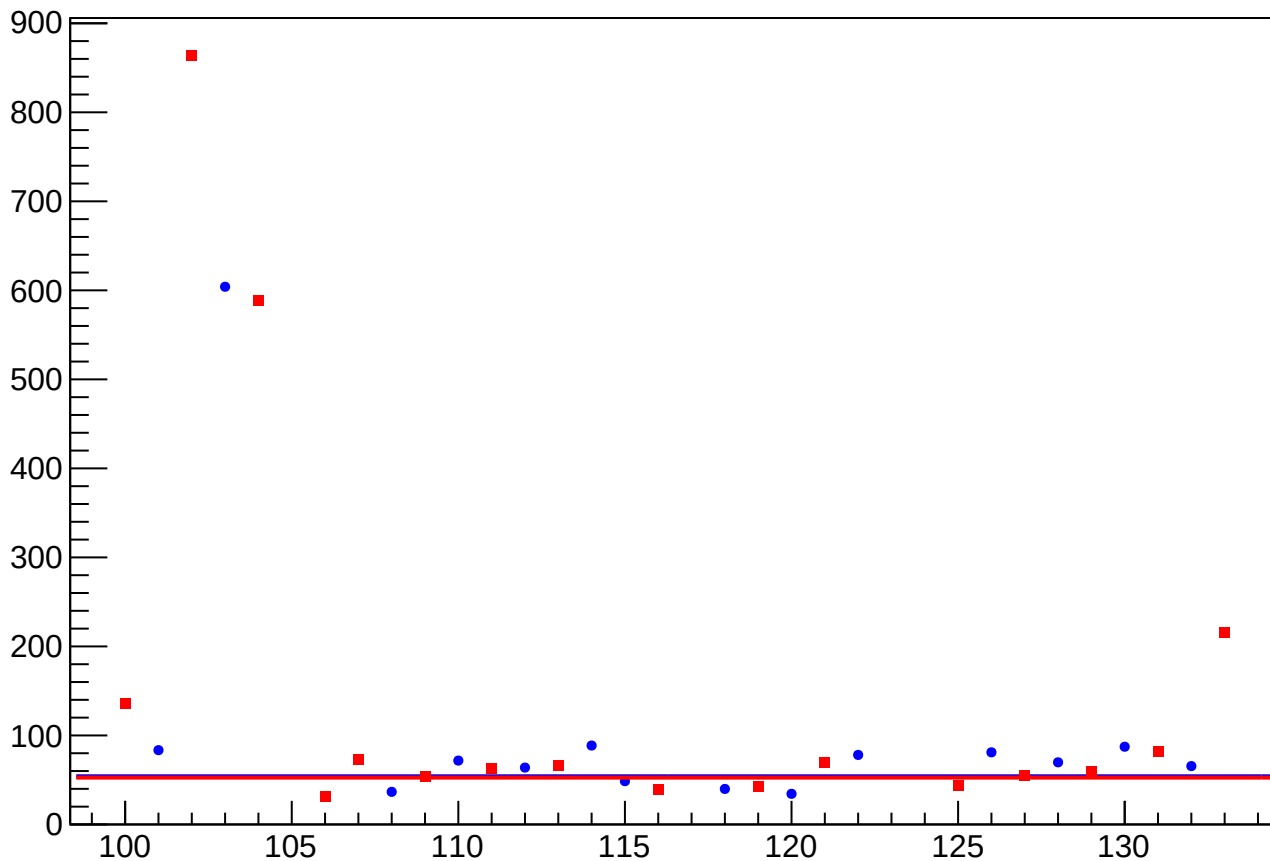
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.017 \pm 0.018$   $\chi^2/\text{NDF}$ : 18.2/29

- 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: 54.134+/-0.018  $\chi^2/\text{NDF}$ : 2067567.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.611+/-0.018  $\chi^2/\text{NDF}$ : 2791914.1/15

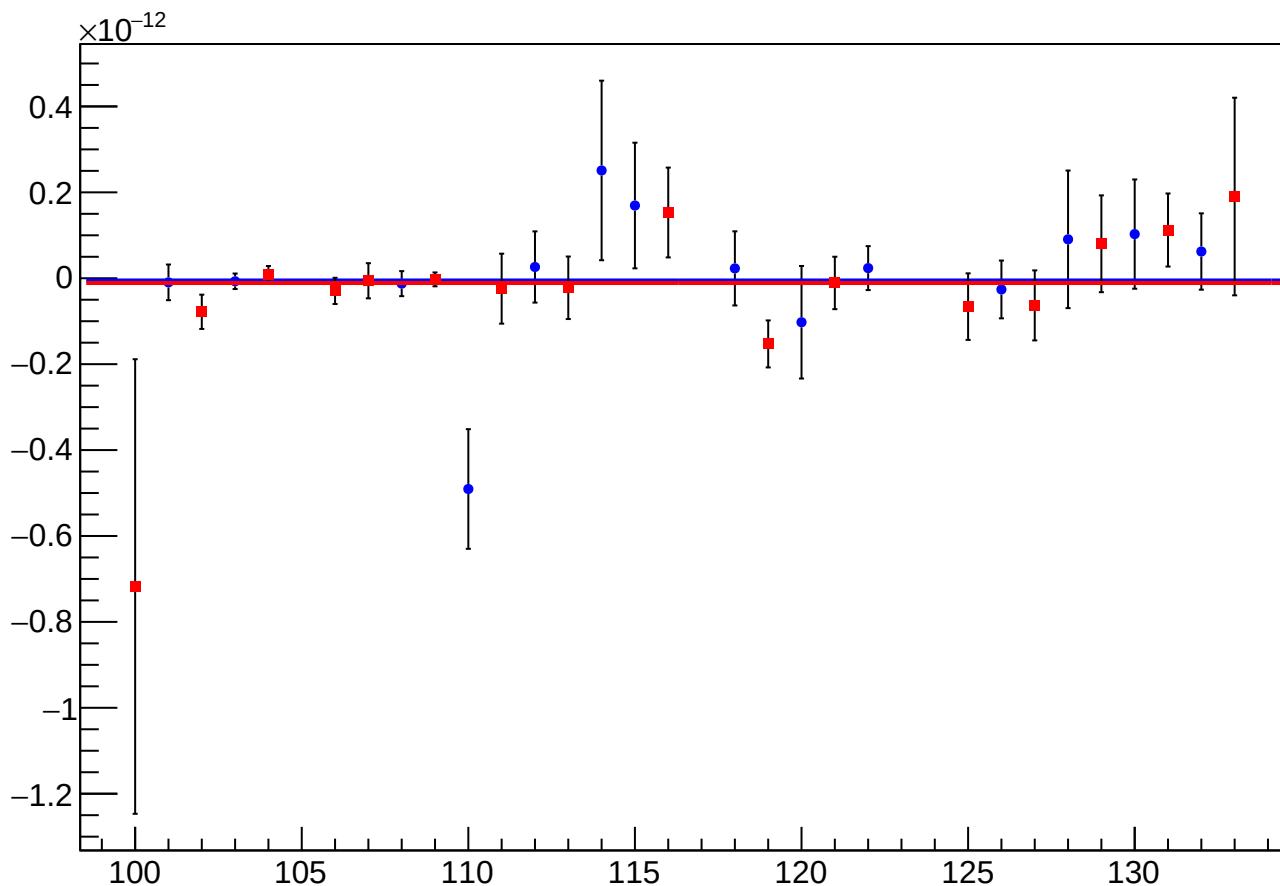
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.351+/-0.013  $\chi^2/\text{NDF}$ : 4863083.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 18.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 20.0/15

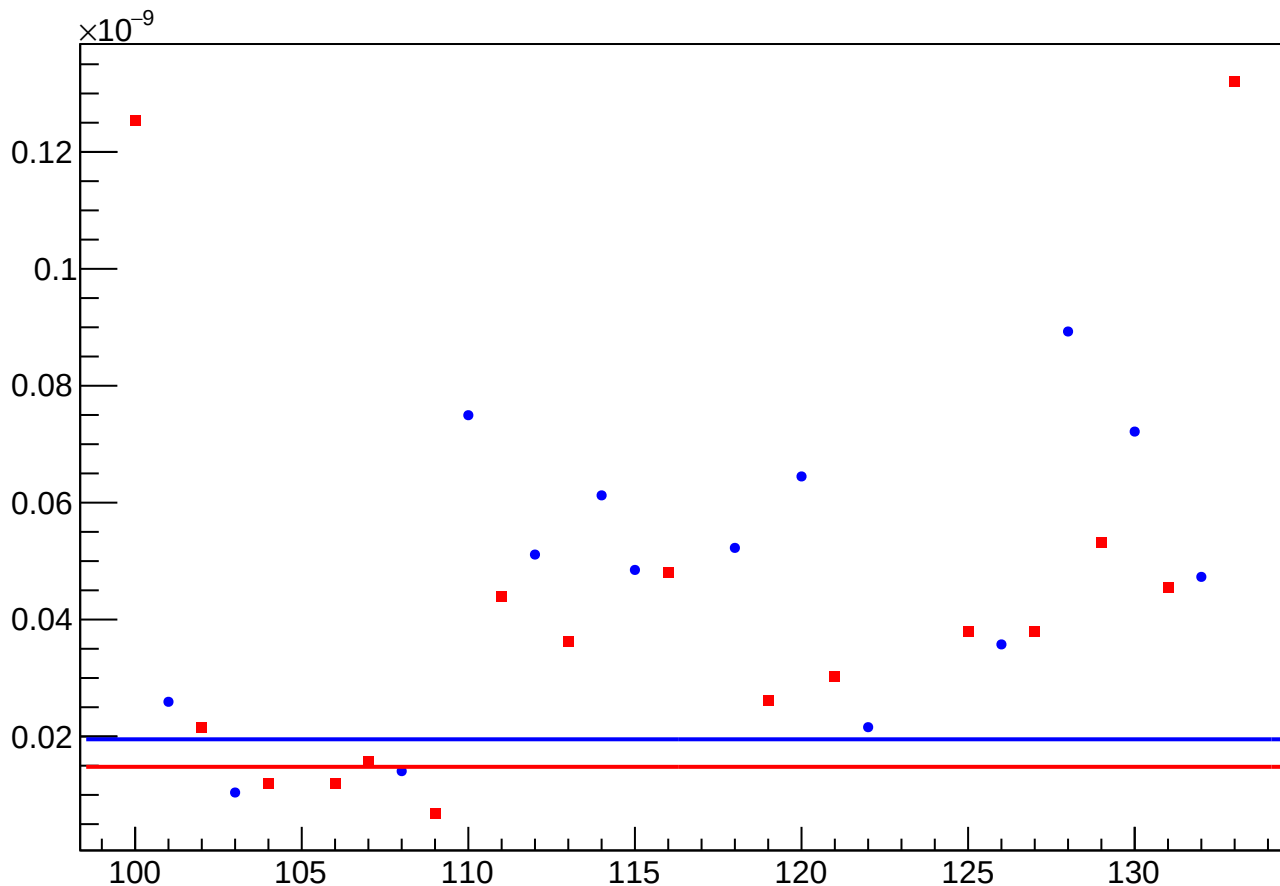
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 38.2/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2953708.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2894341.5/15

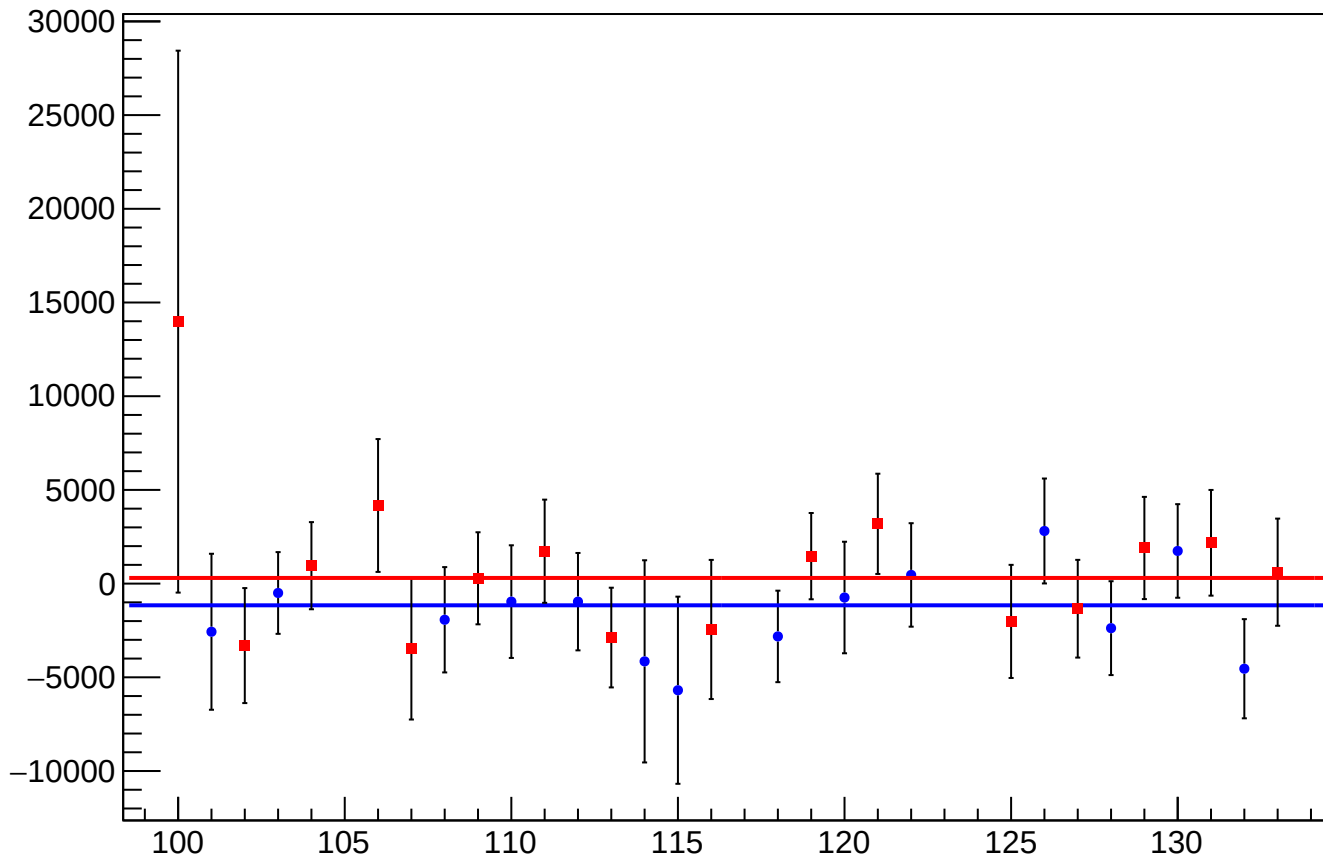
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 6019036.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1158.041 $\pm$ 760.252  $\chi^2$ /NDF: 7.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 302.157 $\pm$ 720.775  $\chi^2$ /NDF: 10.0/15

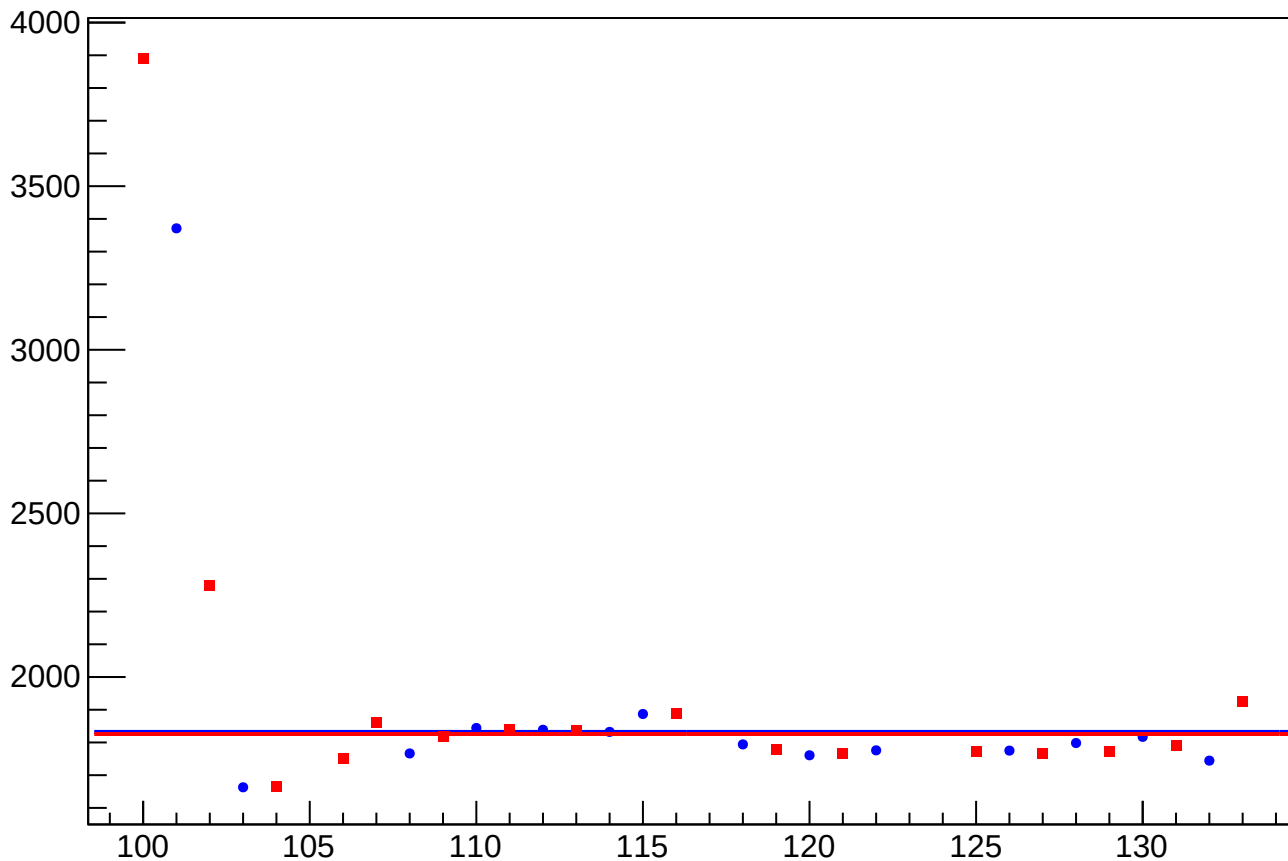
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -389.048 $\pm$ 523.064  $\chi^2$ /NDF: 19.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 1832.177+/-0.538  $\chi^2/\text{NDF}$ : 292833.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1825.855+/-0.510  $\chi^2/\text{NDF}$ : 102866.8/15

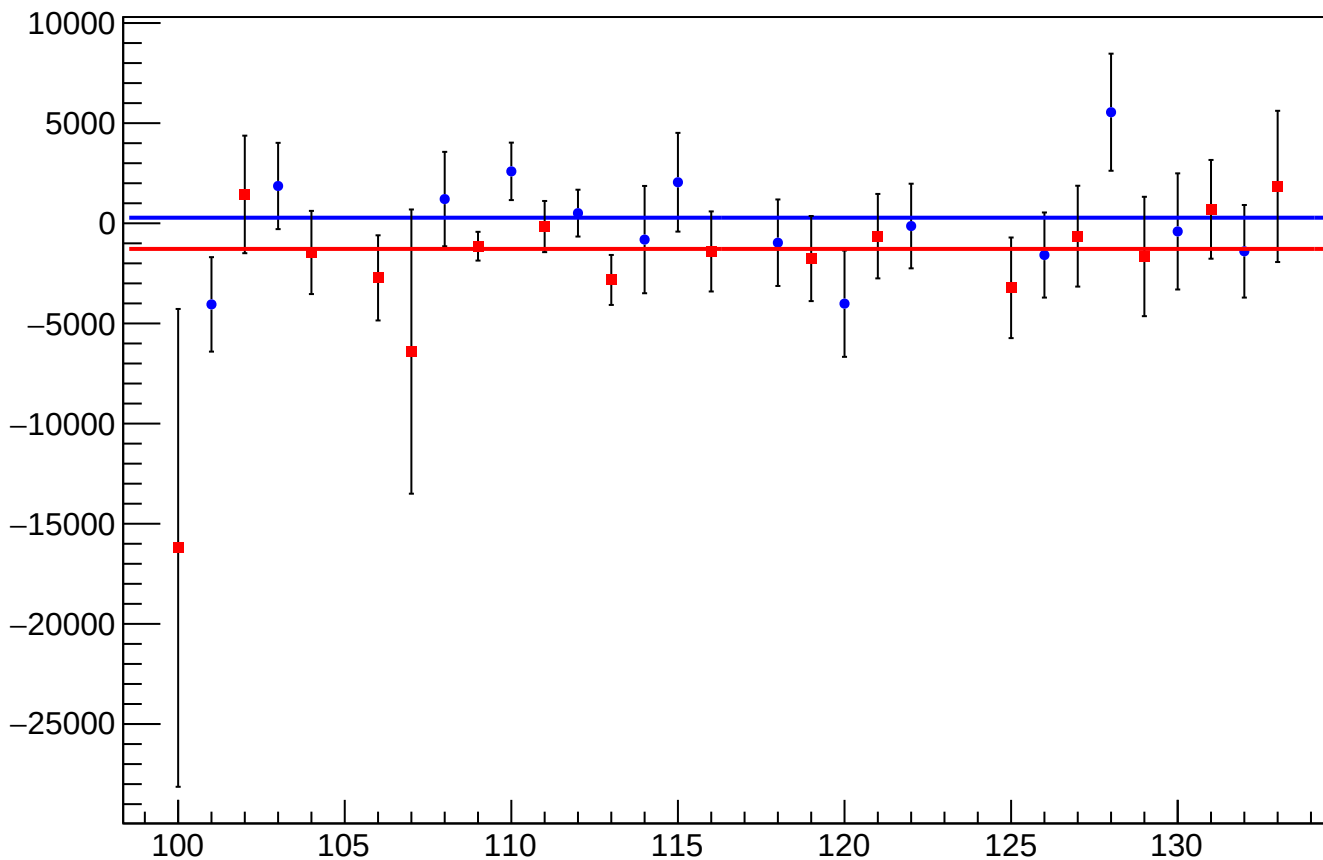
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1828.848+/-0.370  $\chi^2/\text{NDF}$ : 395773.4/29

- 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: 279.774+/-548.668  $\chi^2/\text{NDF}$ : 15.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1278.883+/-440.543  $\chi^2/\text{NDF}$ : 7.9/15

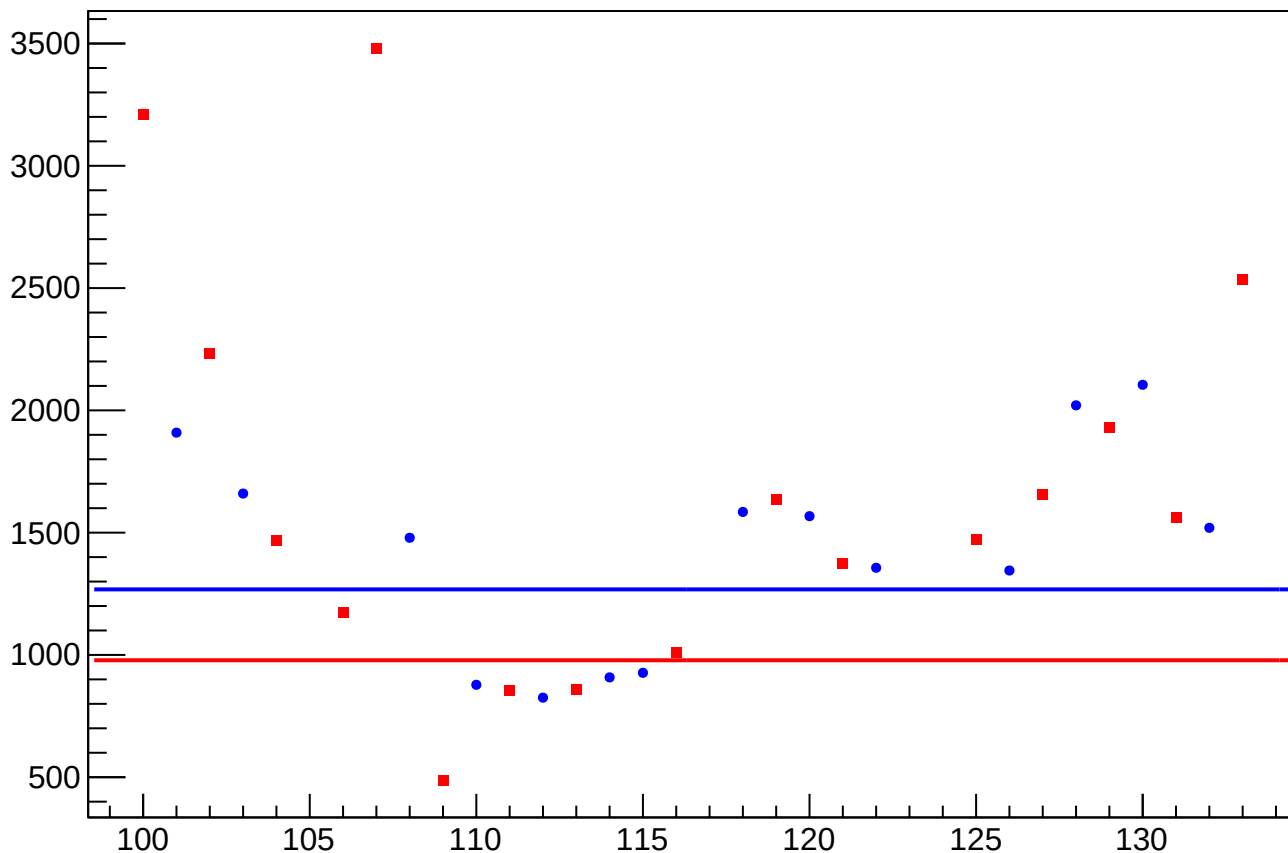
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -667.911+/-343.515  $\chi^2/\text{NDF}$ : 27.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_reg\_correction\_rms vs Slug



Right In: 1267.986 $\pm$ 0.388  $\chi^2$ /NDF: 1136482.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 978.134 $\pm$ 0.312  $\chi^2$ /NDF: 2932341.3/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

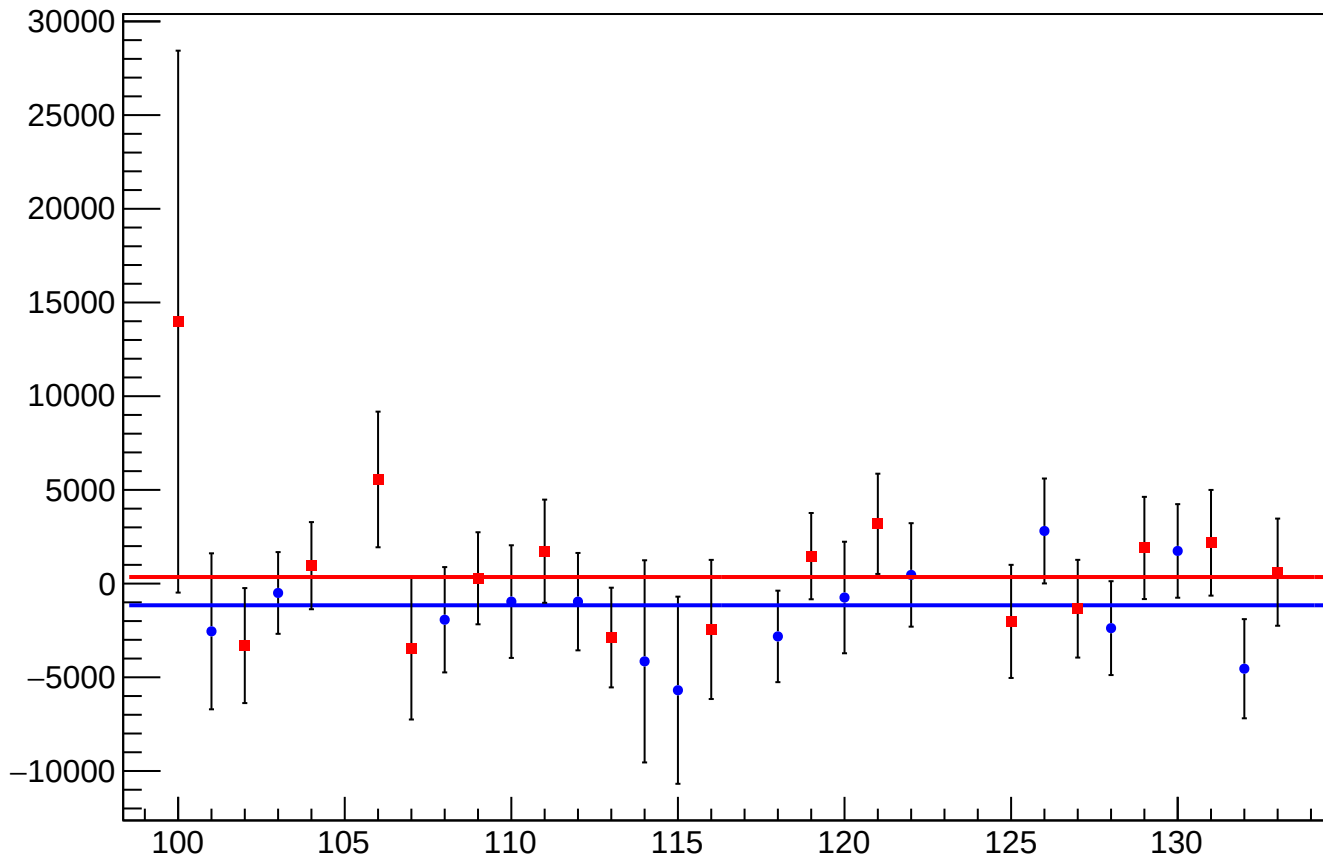
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1091.752 $\pm$ 0.243  $\chi^2$ /NDF: 4408196.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



cor\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1157.213+/-760.253  $\chi^2/\text{NDF}$ : 7.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 350.909+/-721.384  $\chi^2/\text{NDF}$ : 10.9/15

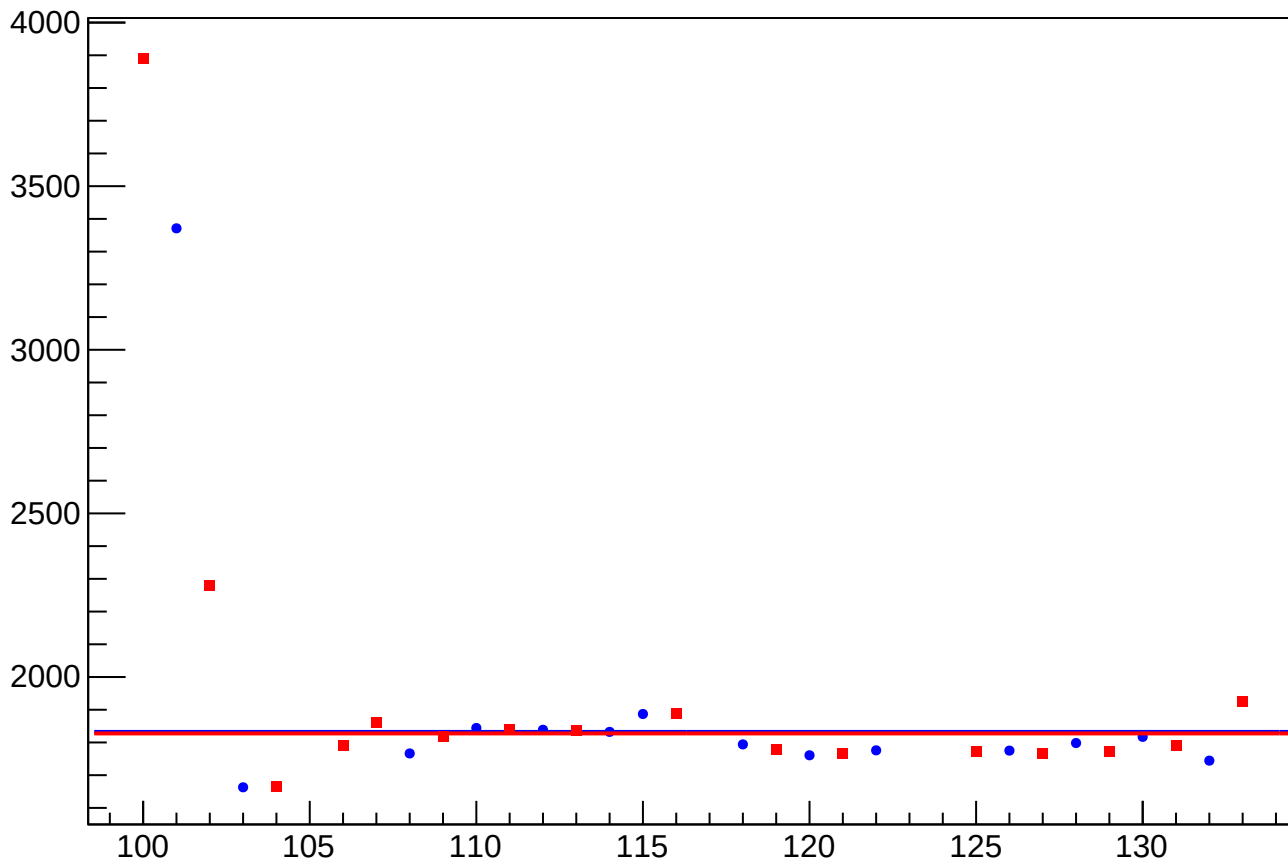
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -363.616+/-523.297  $\chi^2/\text{NDF}$ : 20.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 1832.177+/-0.538  $\chi^2/\text{NDF}$ : 292835.7/13

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

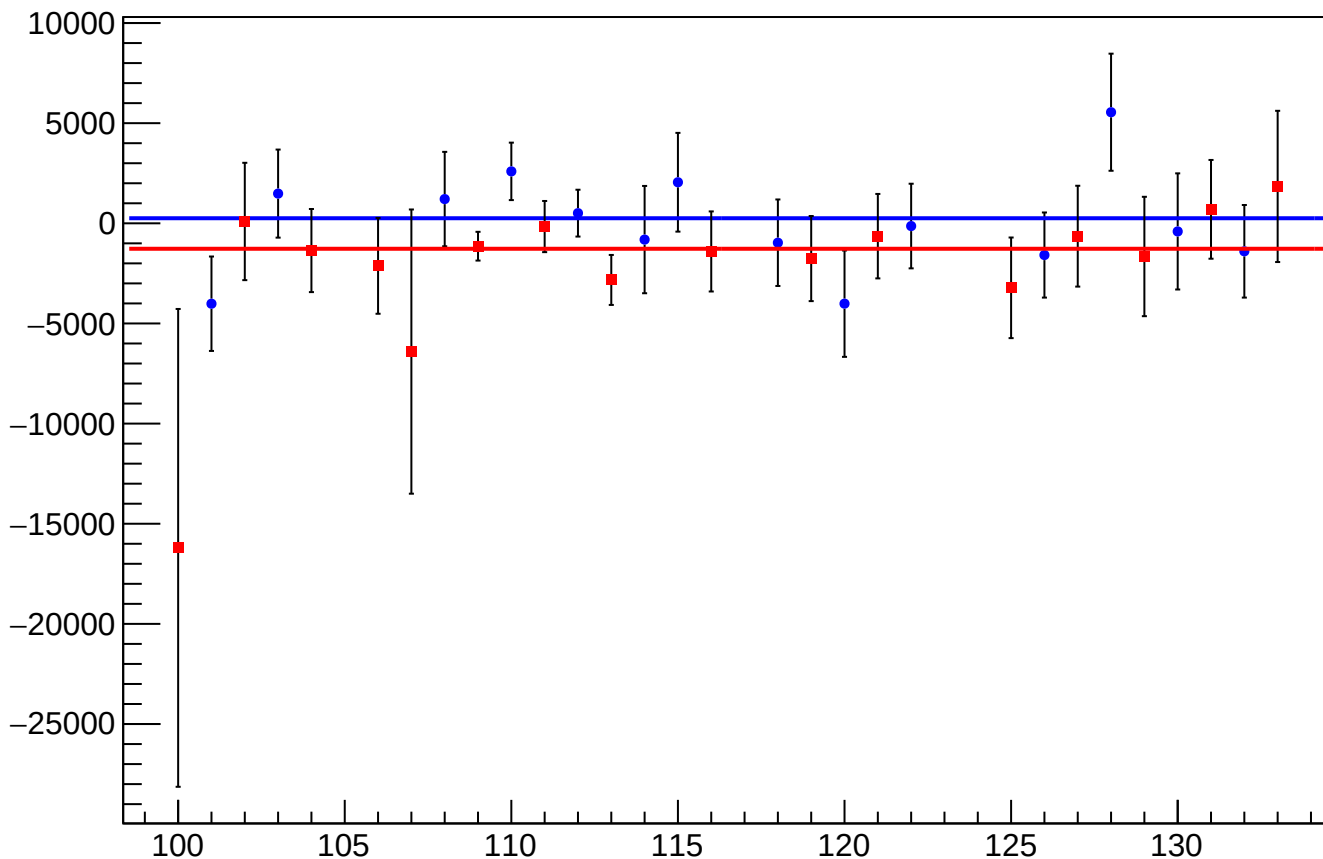
Right Out: 1827.607+/-0.510  $\chi^2/\text{NDF}$ : 102134.0/15

All: 1829.772+/-0.370  $\chi^2/\text{NDF}$ : 395007.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_cor\_correction\_mean vs Slug



Right In: 253.513 $\pm$ 549.373  $\chi^2/\text{NDF}$ : 14.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1270.863 $\pm$ 442.500  $\chi^2/\text{NDF}$ : 6.9/15

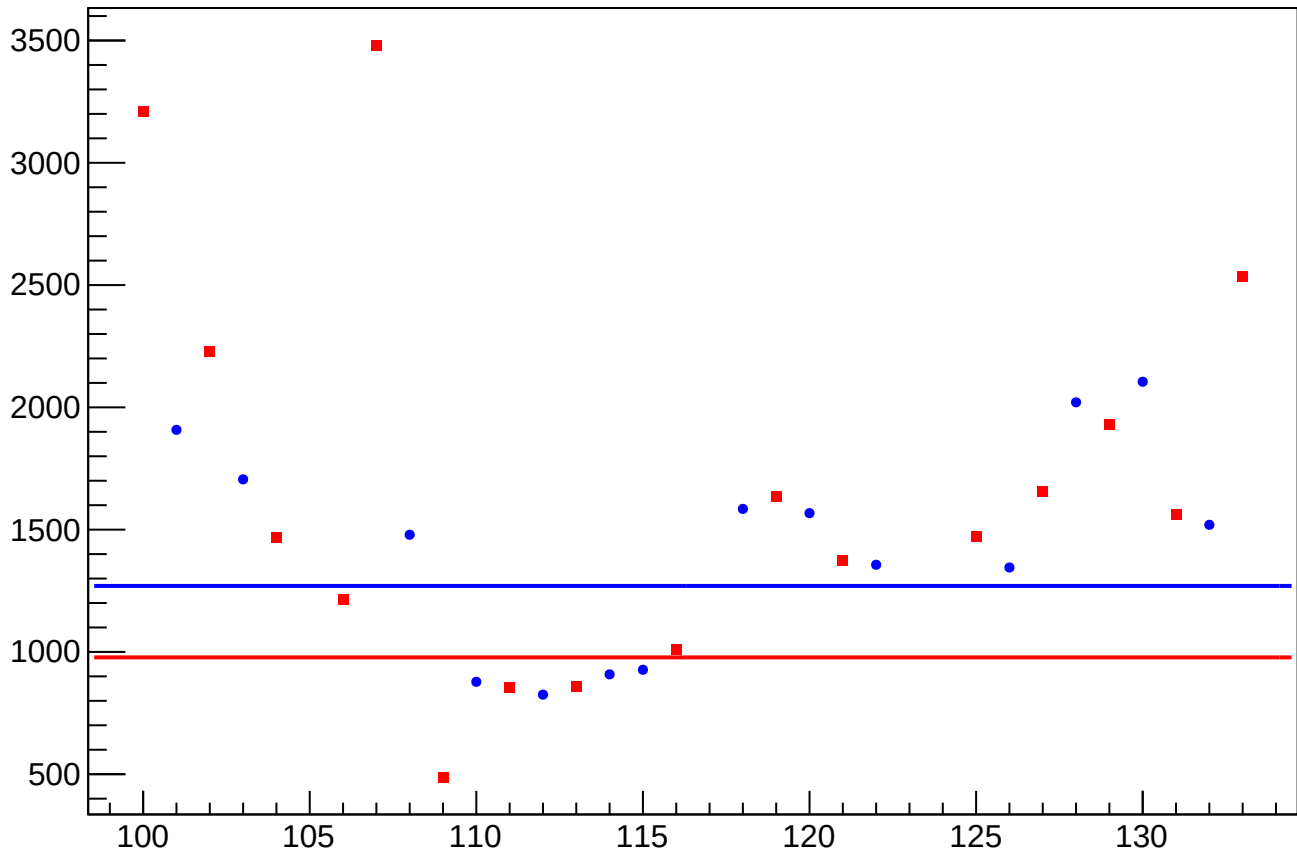
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -671.041 $\pm$ 344.614  $\chi^2/\text{NDF}$ : 26.3/29

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_cor\_correction\_rms vs Slug



Right In: 1269.818 $\pm$ 0.388  $\chi^2$ /NDF: 1149280.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 977.650 $\pm$ 0.313  $\chi^2$ /NDF: 2933347.6/15

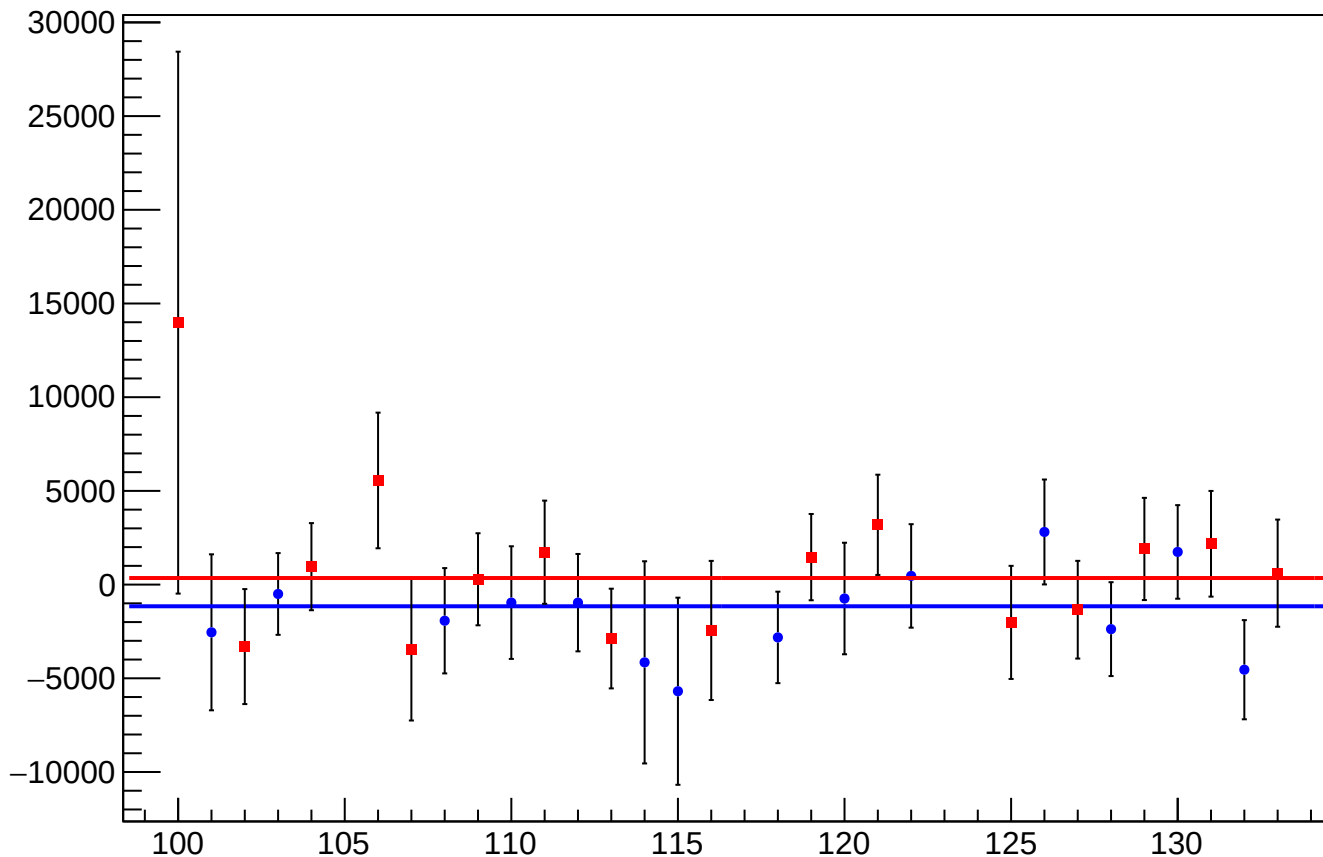
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1092.614 $\pm$ 0.244  $\chi^2$ /NDF: 4425710.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1157.213+/-760.253  $\chi^2/\text{NDF}$ : 7.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 350.909+/-721.384  $\chi^2/\text{NDF}$ : 10.9/15

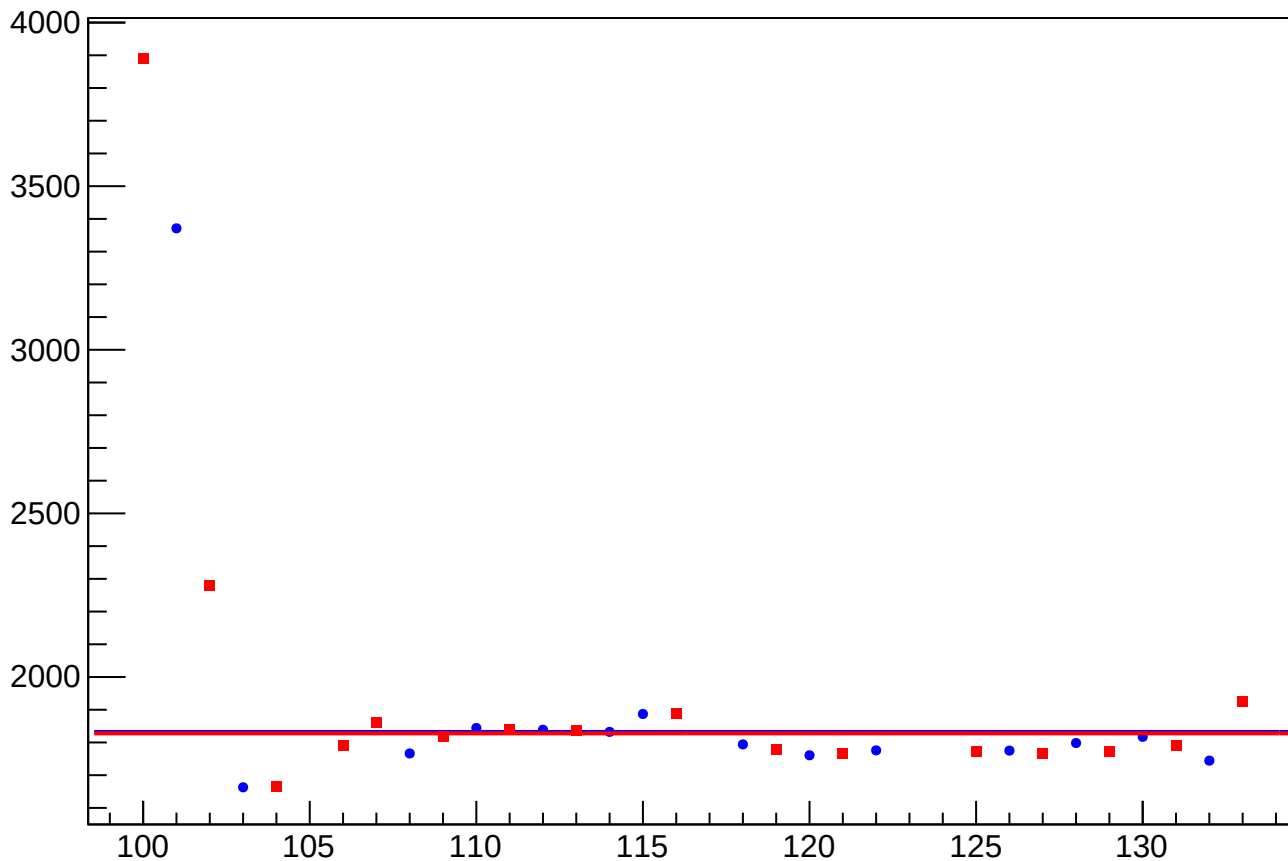
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -363.616+/-523.297  $\chi^2/\text{NDF}$ : 20.4/29

- 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: 1832.177+/-0.538  $\chi^2/\text{NDF}$ : 292835.7/13

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

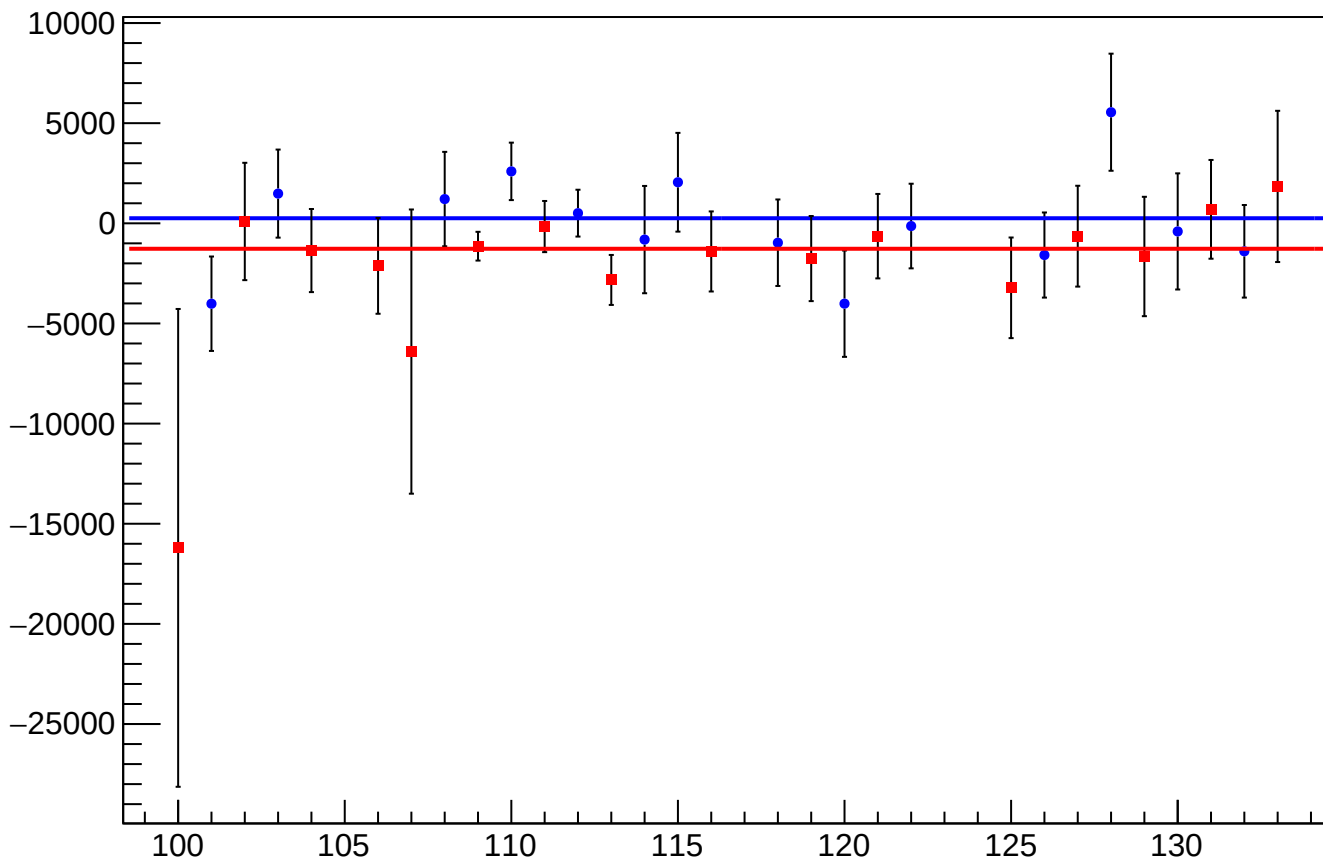
Right Out: 1827.607+/-0.510  $\chi^2/\text{NDF}$ : 102134.0/15

All: 1829.772+/-0.370  $\chi^2/\text{NDF}$ : 395007.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 253.513+/-549.373  $\chi^2/\text{NDF}$ : 14.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1270.863+/-442.500  $\chi^2/\text{NDF}$ : 6.9/15

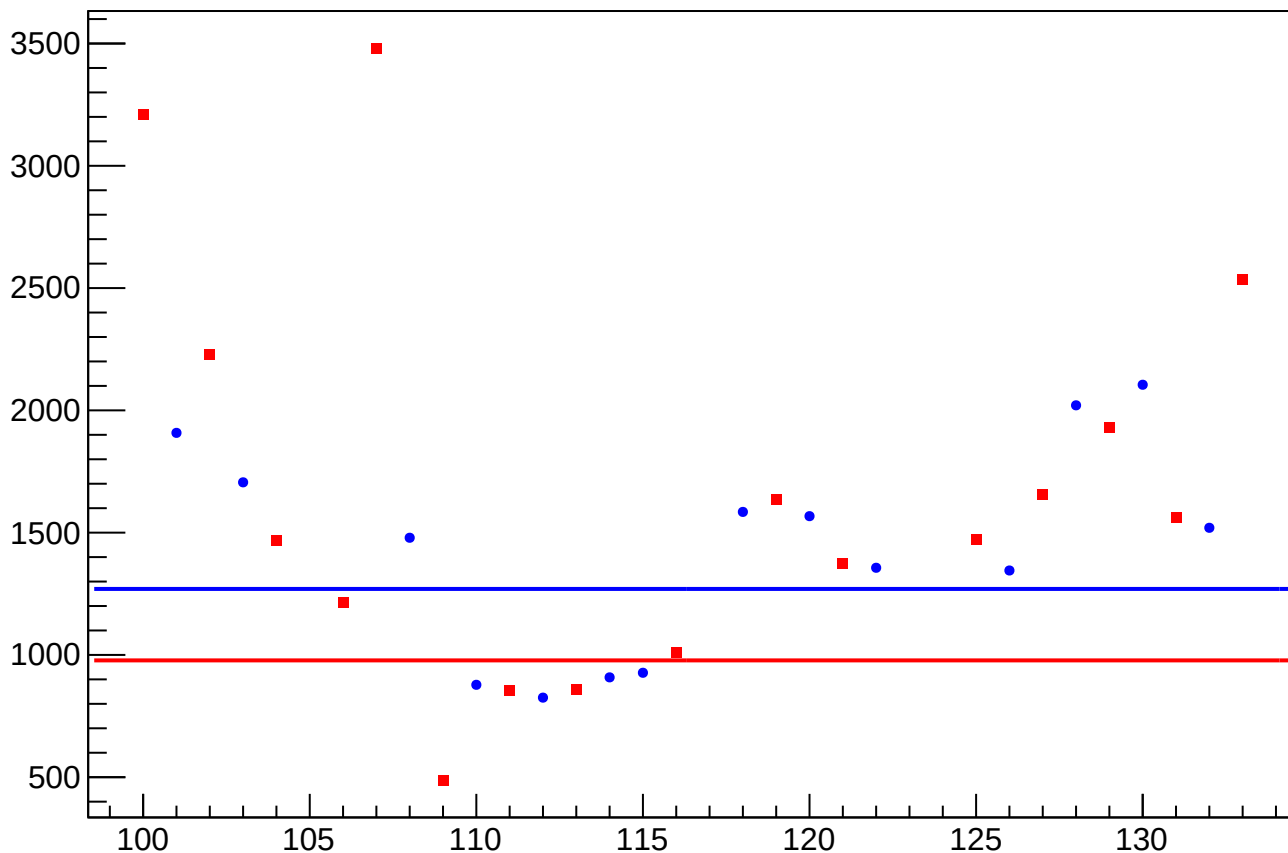
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -671.041+/-344.614  $\chi^2/\text{NDF}$ : 26.3/29

- 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: 1269.818 $\pm$ 0.388  $\chi^2$ /NDF: 1149280.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 977.650 $\pm$ 0.313  $\chi^2$ /NDF: 2933347.6/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

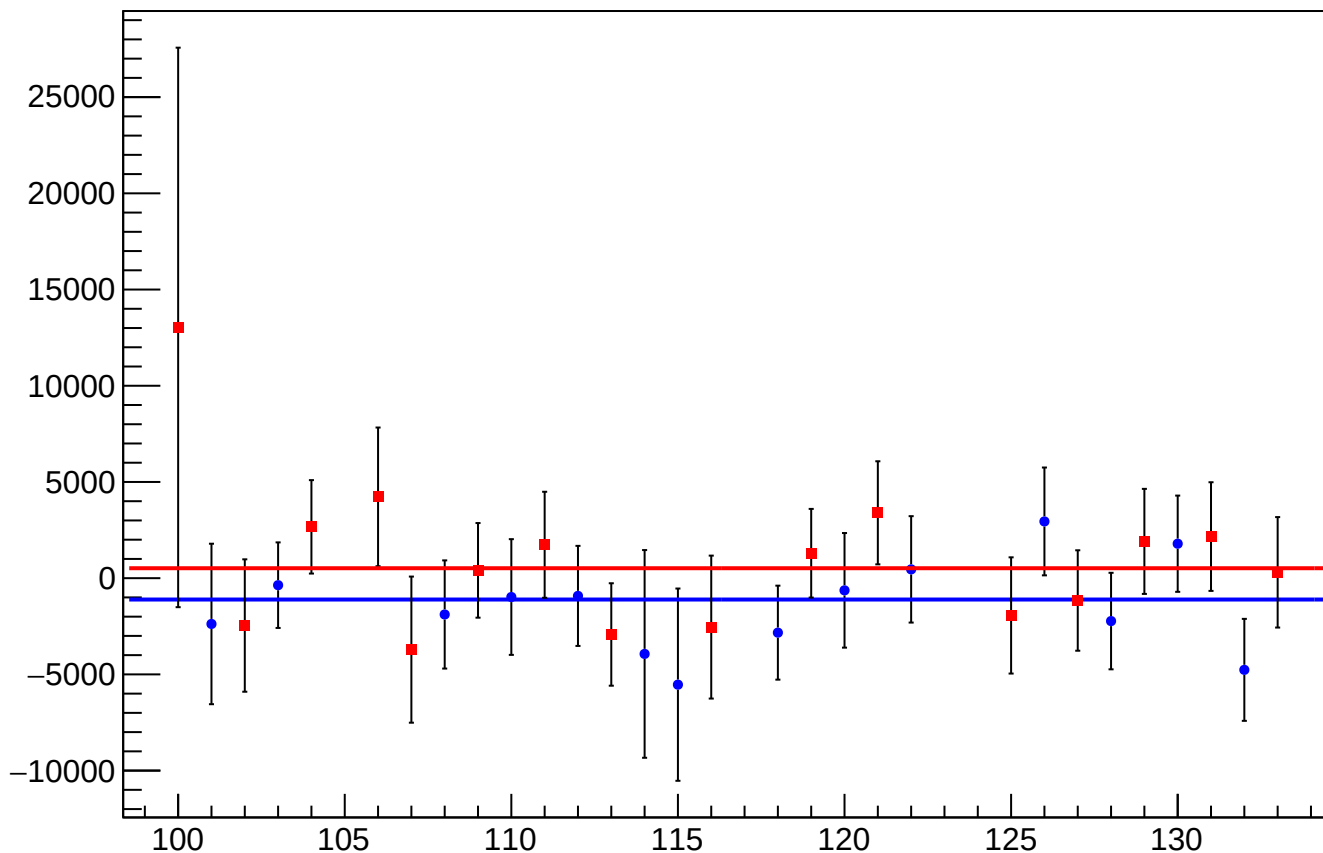
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1092.614 $\pm$ 0.244  $\chi^2$ /NDF: 4425710.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# dit\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1109.634 $\pm$ 762.690  $\chi^2$ /NDF: 7.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 517.196 $\pm$ 729.044  $\chi^2$ /NDF: 10.1/15

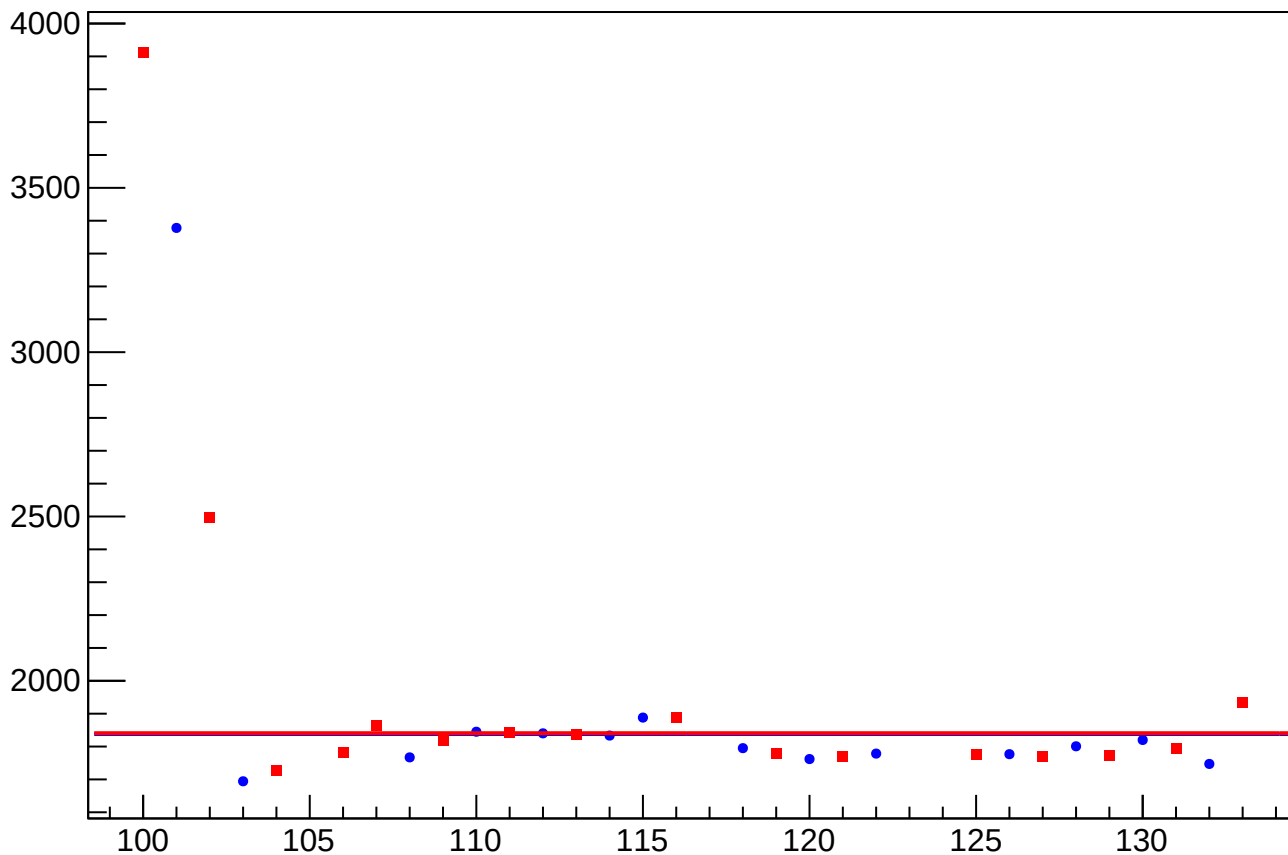
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -259.545 $\pm$ 527.005  $\chi^2$ /NDF: 20.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 1838.217+/-0.539  $\chi^2/\text{NDF}$ : 289288.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1840.573+/-0.516  $\chi^2/\text{NDF}$ : 128075.7/15

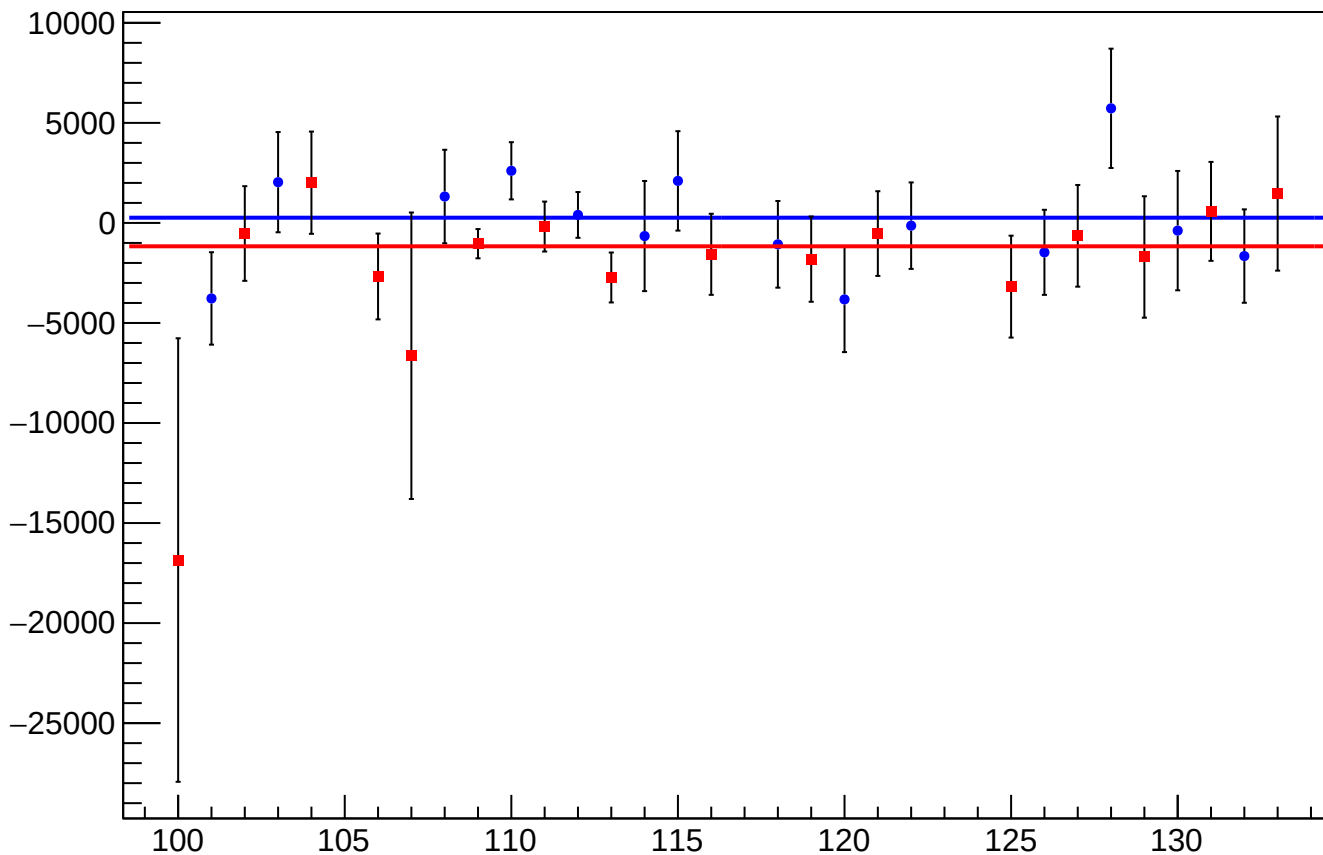
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1839.448+/-0.373  $\chi^2/\text{NDF}$ : 417373.6/29

- 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: 261.213+/-552.268  $\chi^2/\text{NDF}$ : 14.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1168.880+/-444.111  $\chi^2/\text{NDF}$ : 8.8/15

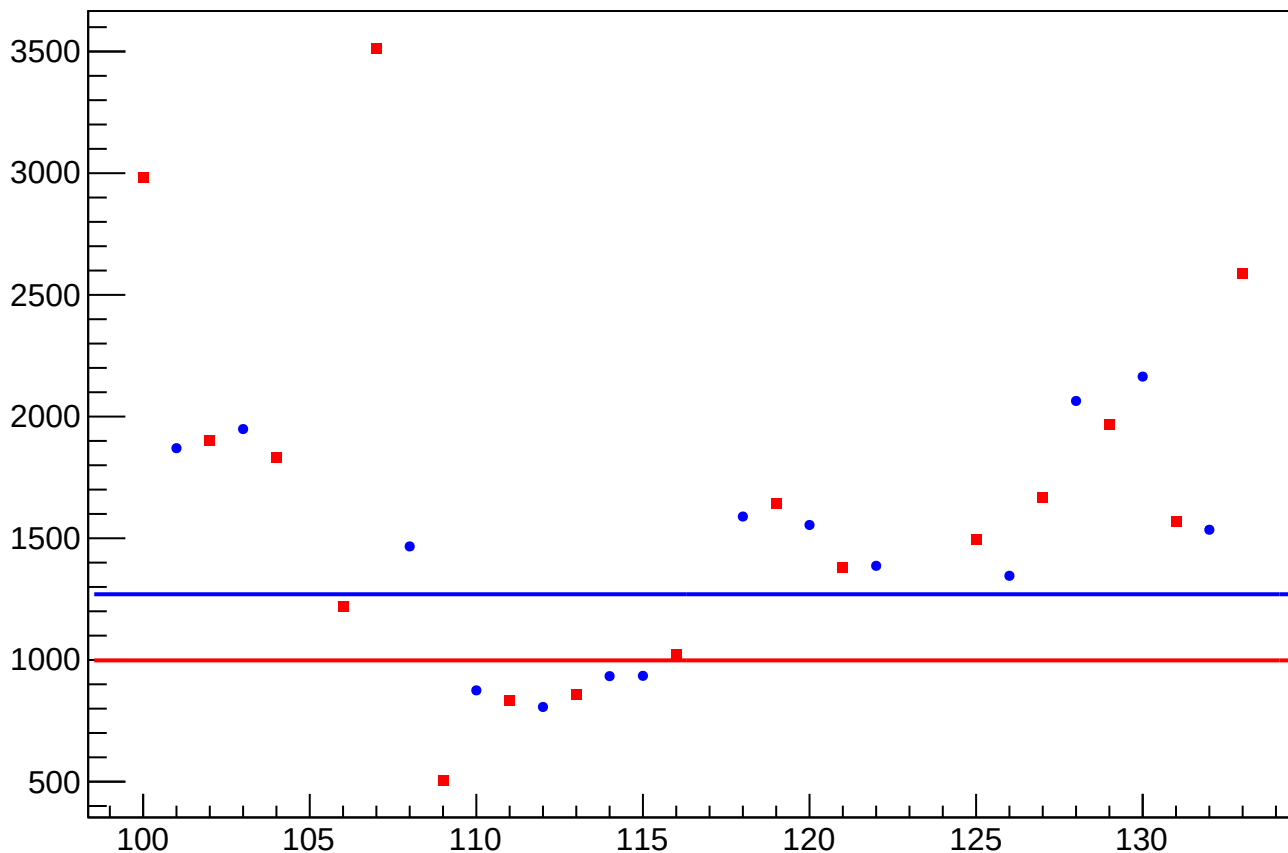
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -607.262+/-346.089  $\chi^2/\text{NDF}$ : 27.6/29

- 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: 1269.999 $\pm$ 0.391  $\chi^2$ /NDF: 1265462.6/13

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

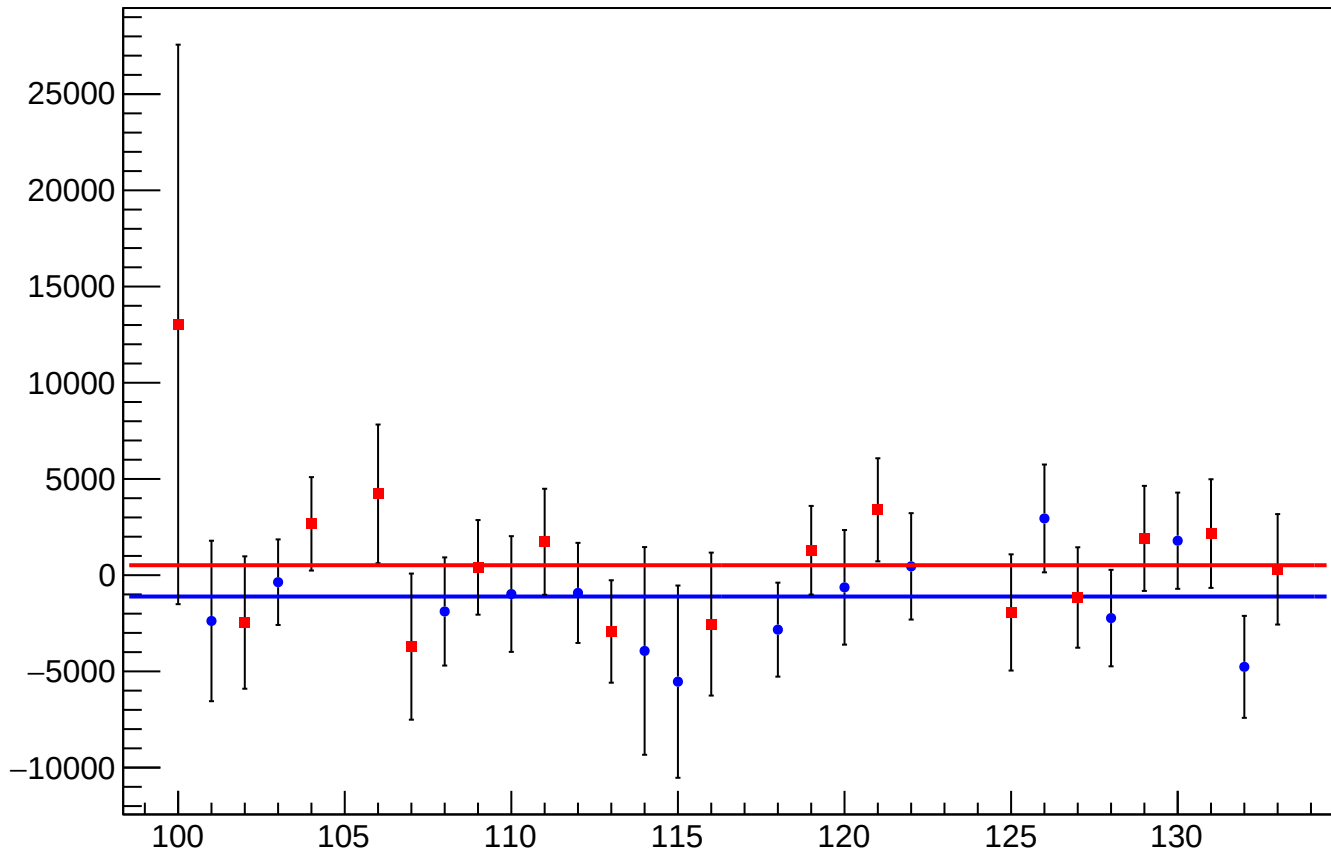
Right Out: 998.321 $\pm$ 0.314  $\chi^2$ /NDF: 2927075.7/15

All: 1105.013 $\pm$ 0.245  $\chi^2$ /NDF: 4486460.3/29

- 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: -1109.633+/-762.690  $\chi^2/\text{NDF}$ : 7.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 517.200+/-729.044  $\chi^2/\text{NDF}$ : 10.1/15

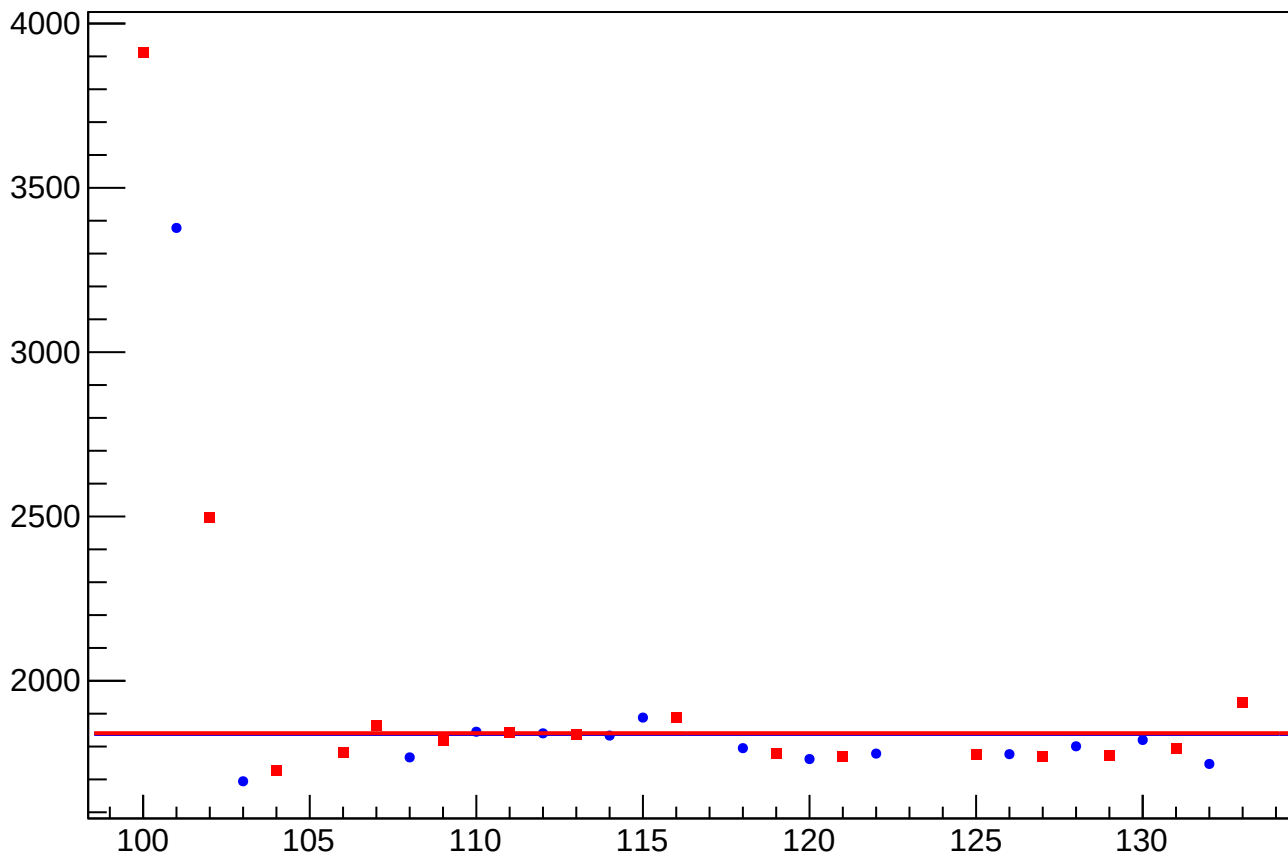
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -259.542+/-527.005  $\chi^2/\text{NDF}$ : 20.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 1838.217+/-0.539  $\chi^2/\text{NDF}$ : 289288.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1840.573+/-0.516  $\chi^2/\text{NDF}$ : 128075.7/15

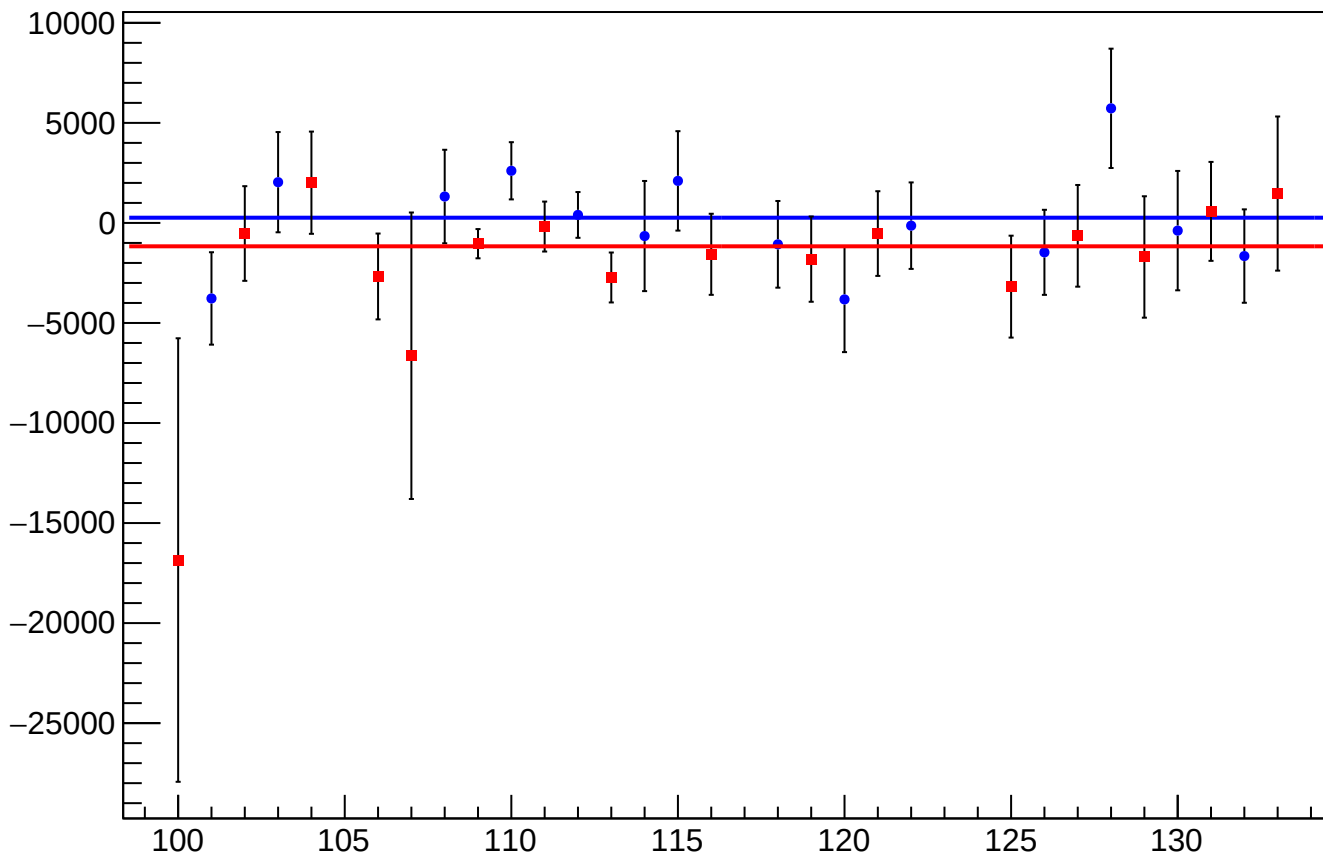
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1839.448+/-0.373  $\chi^2/\text{NDF}$ : 417373.7/29

- 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: 261.214+/-552.265  $\chi^2/\text{NDF}$ : 14.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1168.877+/-444.110  $\chi^2/\text{NDF}$ : 8.8/15

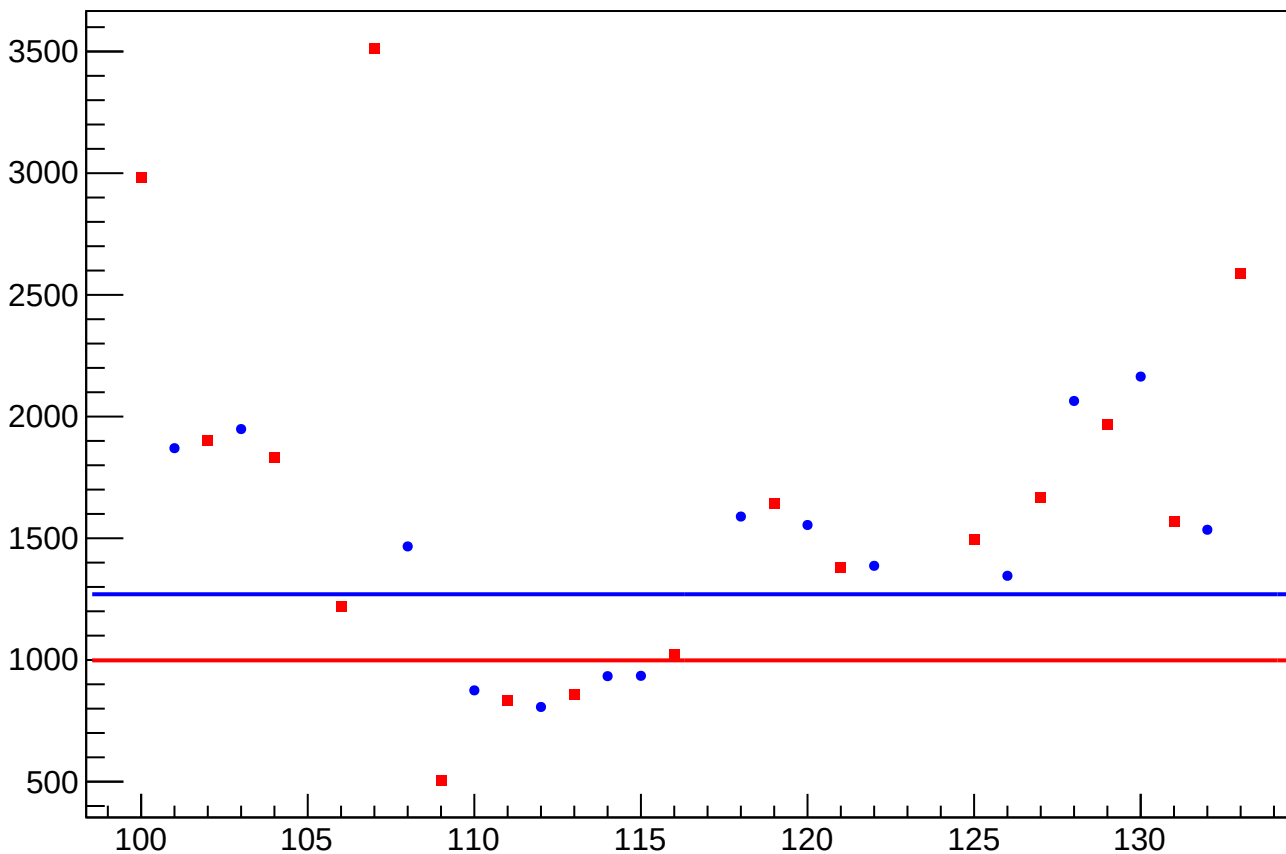
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -607.258+/-346.088  $\chi^2/\text{NDF}$ : 27.6/29

- 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: 1269.991+/-0.391  $\chi^2/\text{NDF}$ : 1265474.5/13

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: 998.319+/-0.314  $\chi^2/\text{NDF}$ : 2927064.8/15

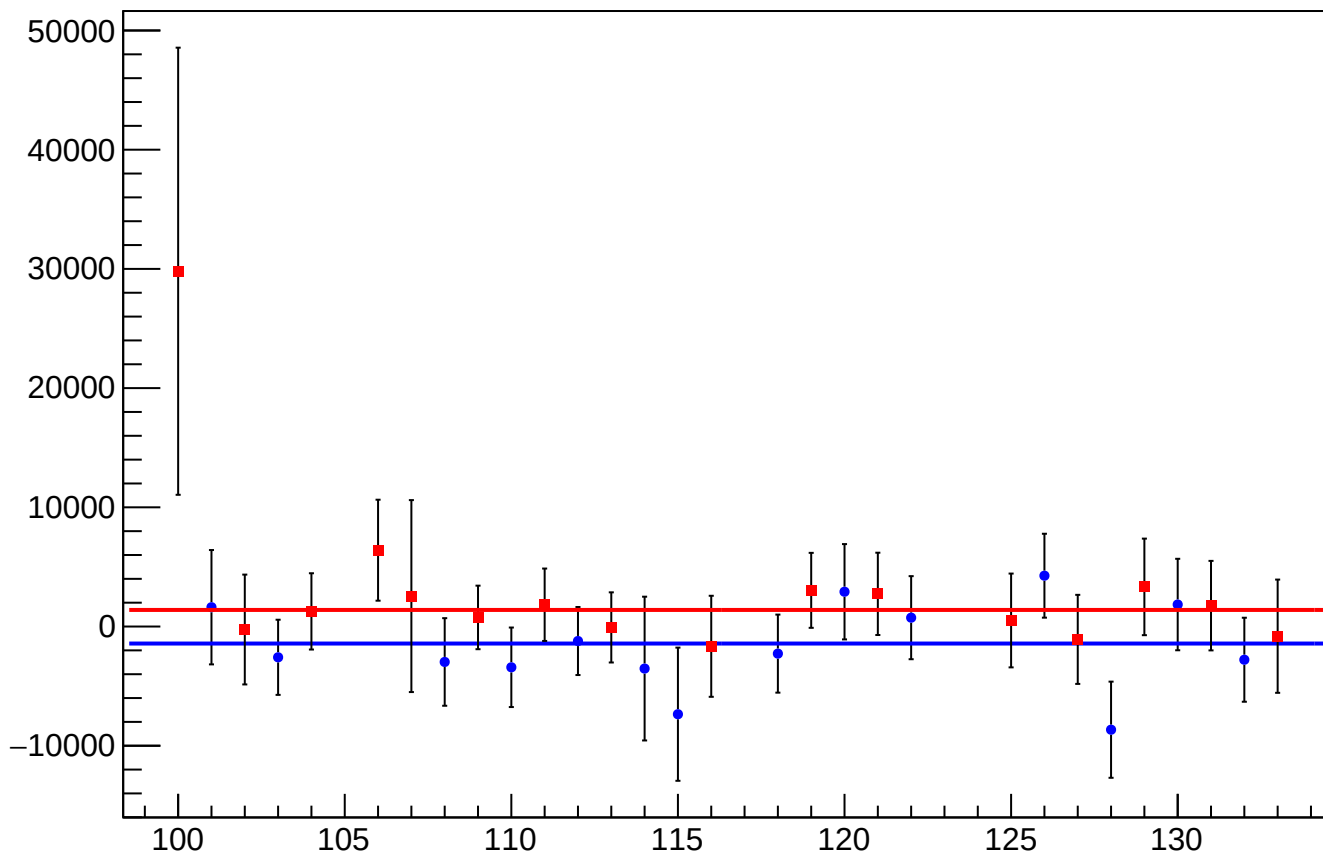
All: 1105.009+/-0.245  $\chi^2/\text{NDF}$ : 4486450.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug



Right In: -1427.047+/-990.430  $\chi^2/\text{NDF}$ : 10.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1391.172+/-937.905  $\chi^2/\text{NDF}$ : 6.1/15

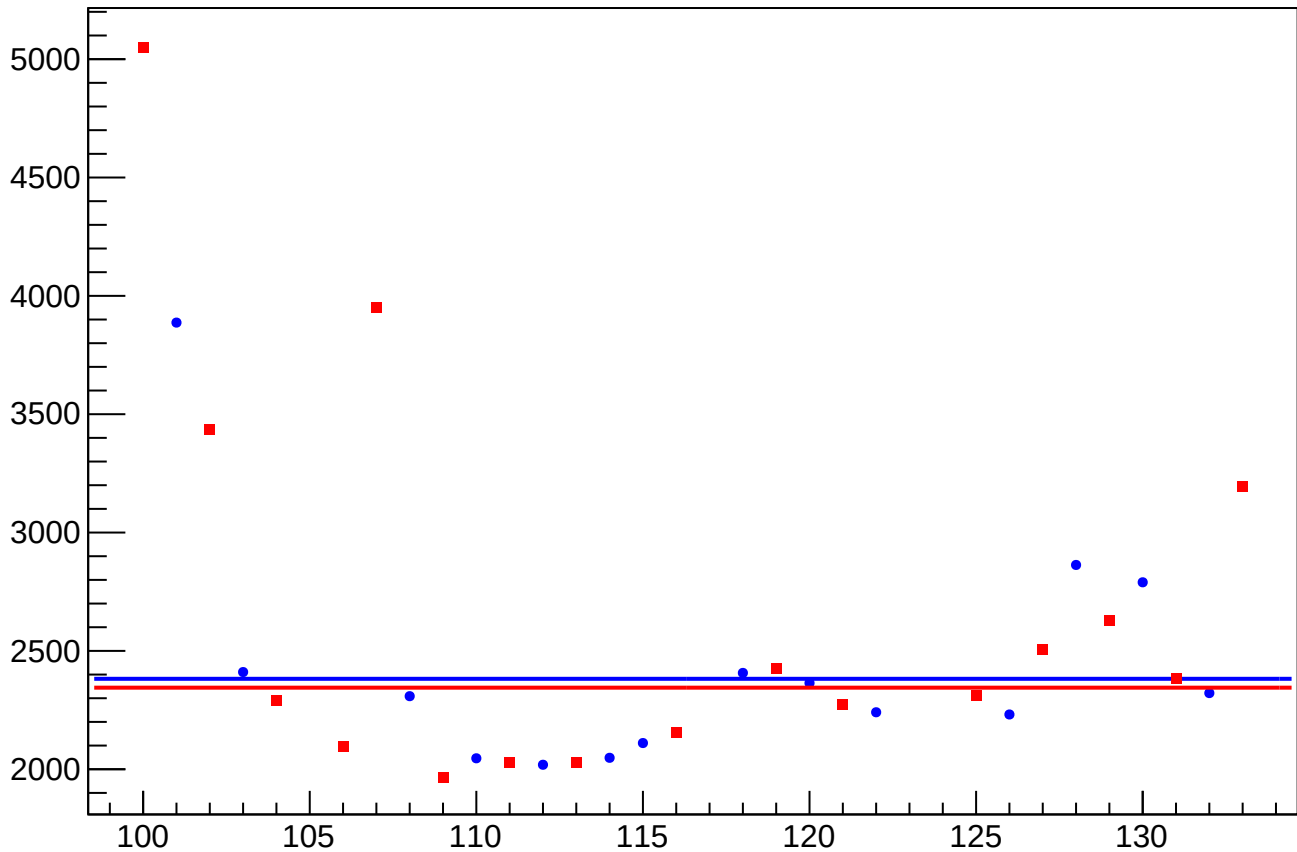
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 58.770+/-681.011  $\chi^2/\text{NDF}$ : 21.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug



Right In: 2382.070 $\pm$ 0.700  $\chi^2$ /NDF: 320101.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2344.645 $\pm$ 0.663  $\chi^2$ /NDF: 409752.9/15

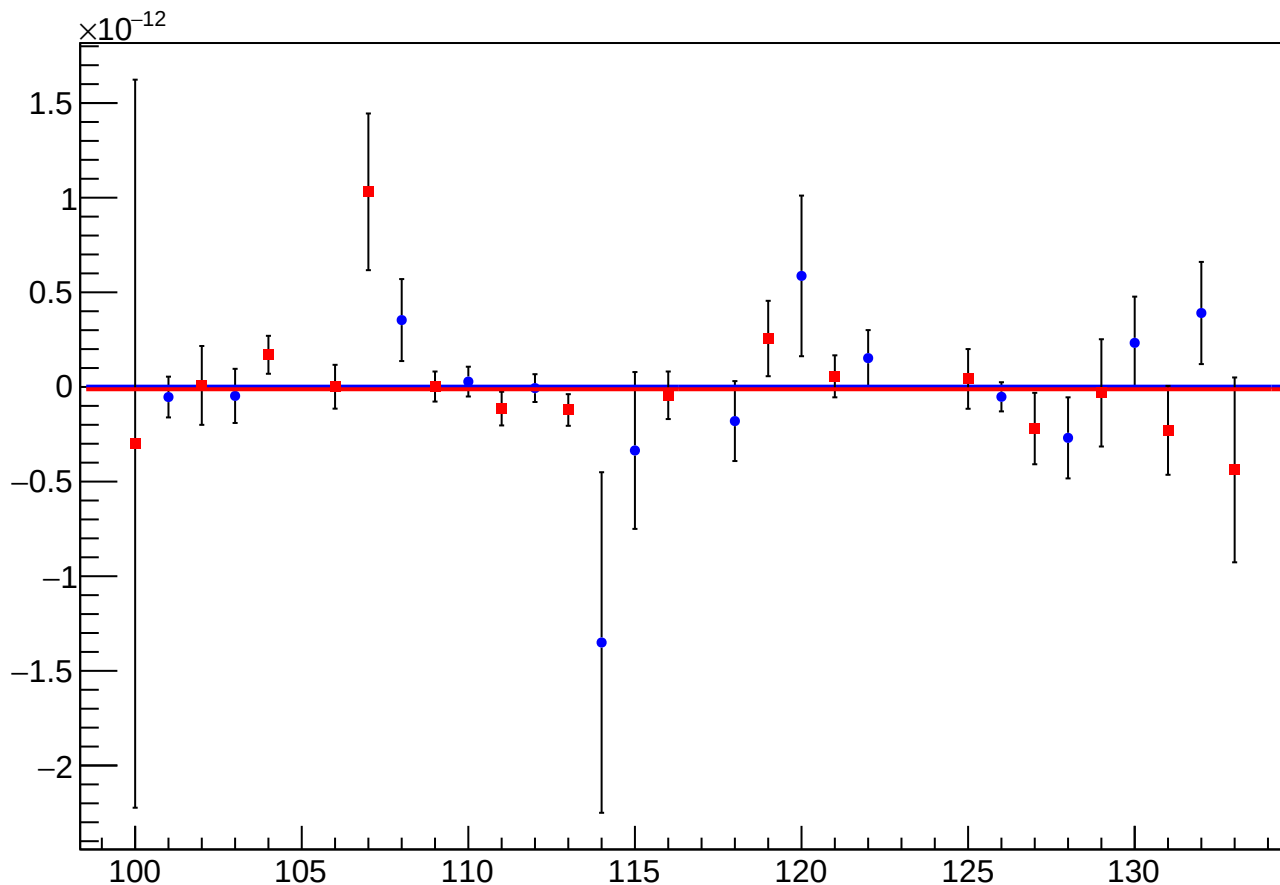
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2362.339 $\pm$ 0.482  $\chi^2$ /NDF: 731359.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.0/15

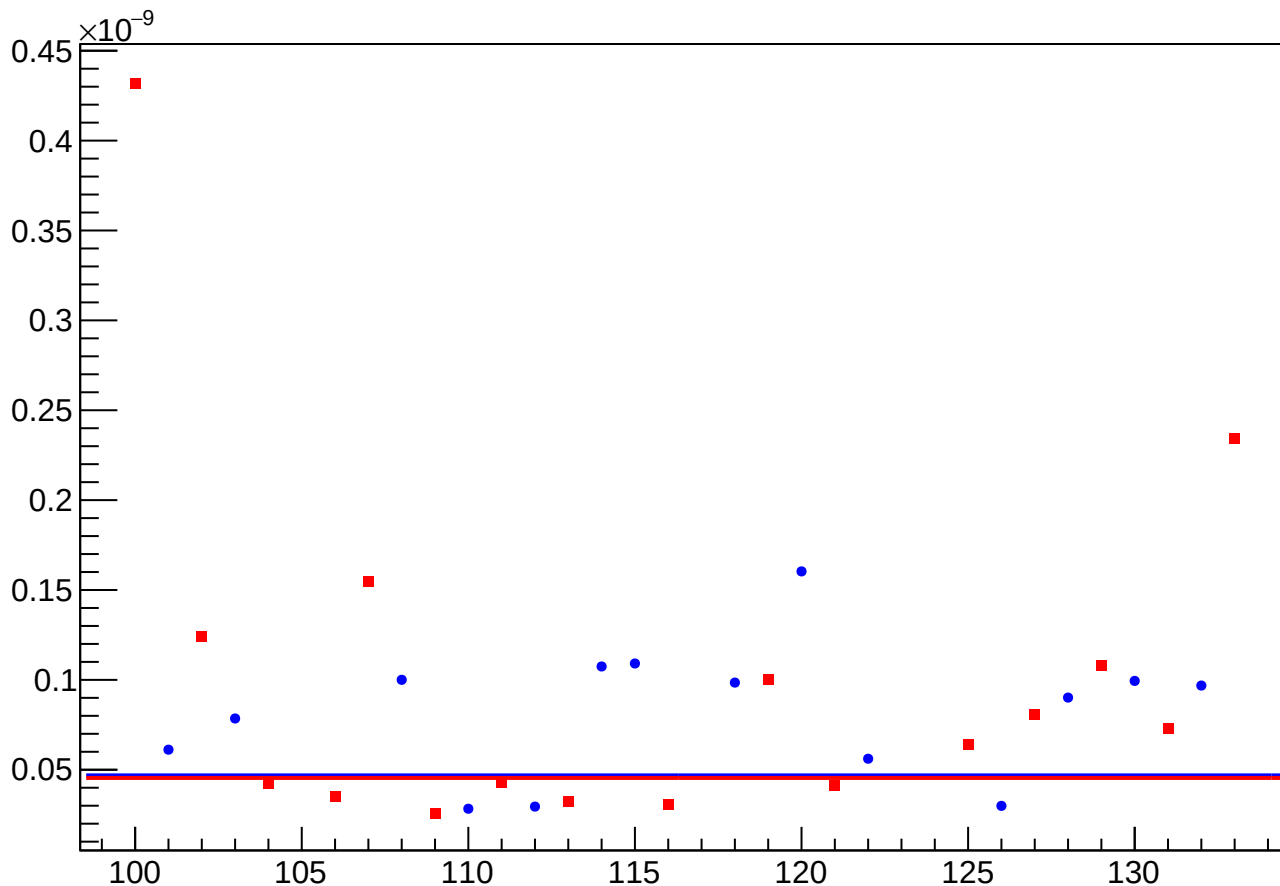
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 32.8/29

- 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  $\chi^2/\text{NDF}$ : 1140845.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1402863.2/15

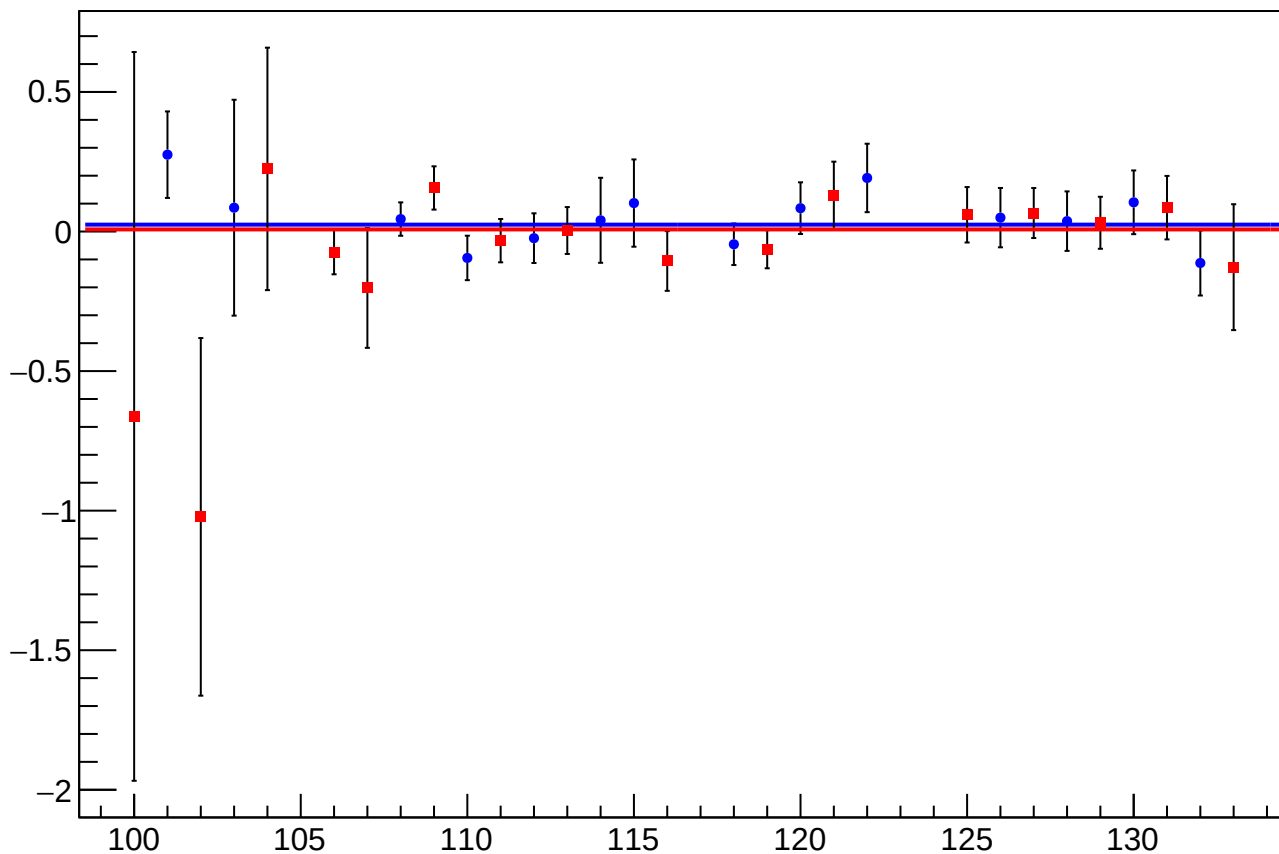
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2545411.4/29

- 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: 0.025 $\pm$ 0.027  $\chi^2$ /NDF: 10.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.008 $\pm$ 0.026  $\chi^2$ /NDF: 13.8/15

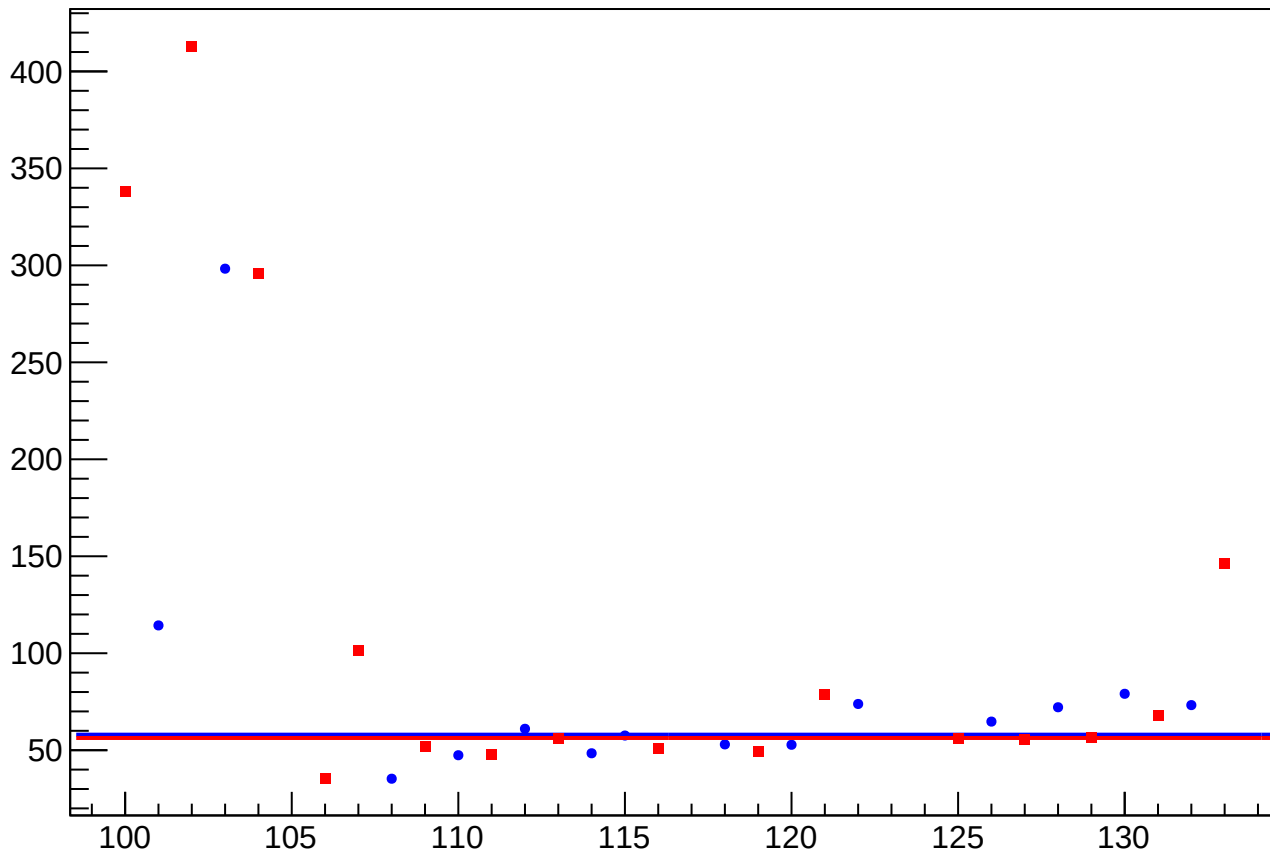
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.019  $\chi^2$ /NDF: 24.7/29

- 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: 58.016+/-0.019  $\chi^2/\text{NDF}$ : 1564777.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 56.307+/-0.018  $\chi^2/\text{NDF}$ : 2013443.0/15

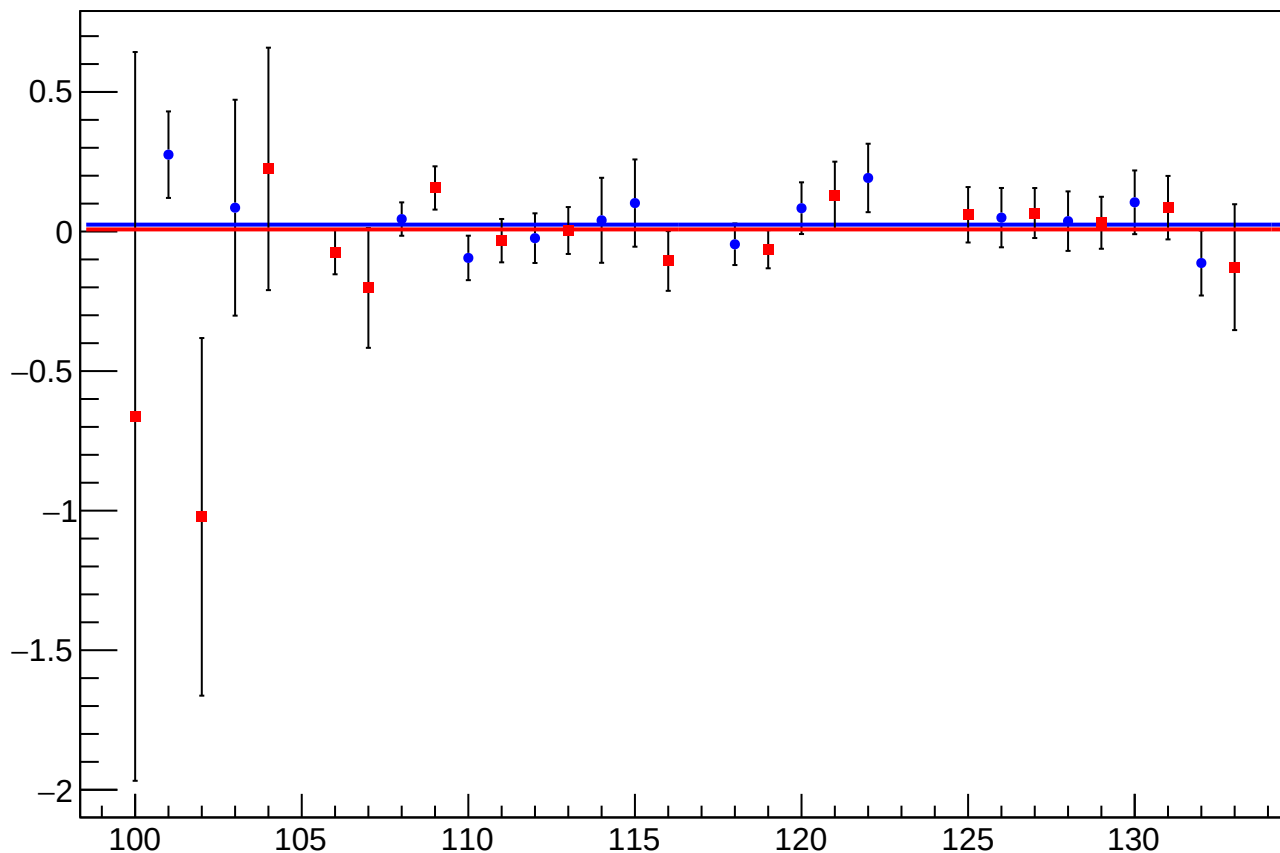
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 57.136+/-0.013  $\chi^2/\text{NDF}$ : 3582388.1/29

- 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: 0.025 $\pm$ 0.027  $\chi^2$ /NDF: 10.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.008 $\pm$ 0.026  $\chi^2$ /NDF: 13.8/15

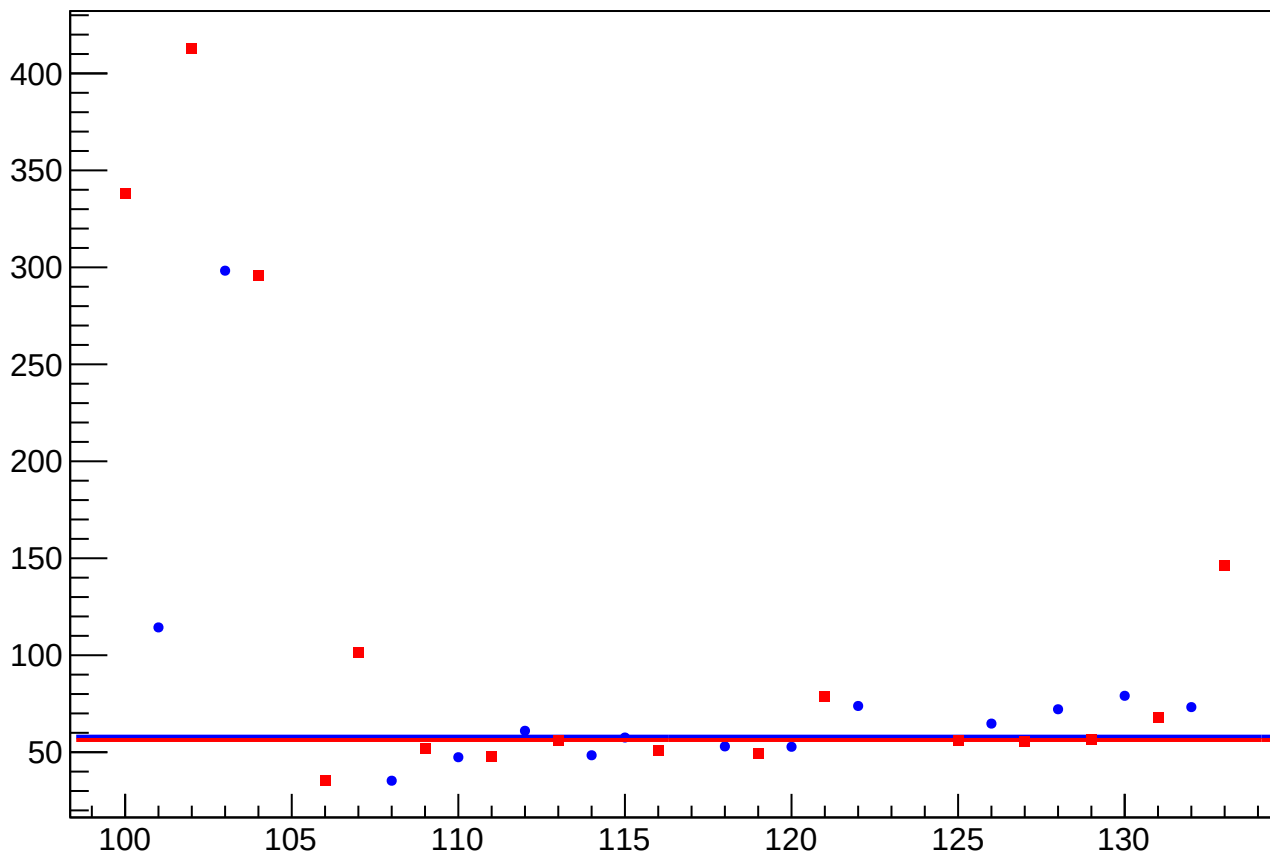
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.019  $\chi^2$ /NDF: 24.7/29

- 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: 58.016+/-0.019  $\chi^2/\text{NDF}$ : 1564777.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 56.307+/-0.018  $\chi^2/\text{NDF}$ : 2013443.0/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

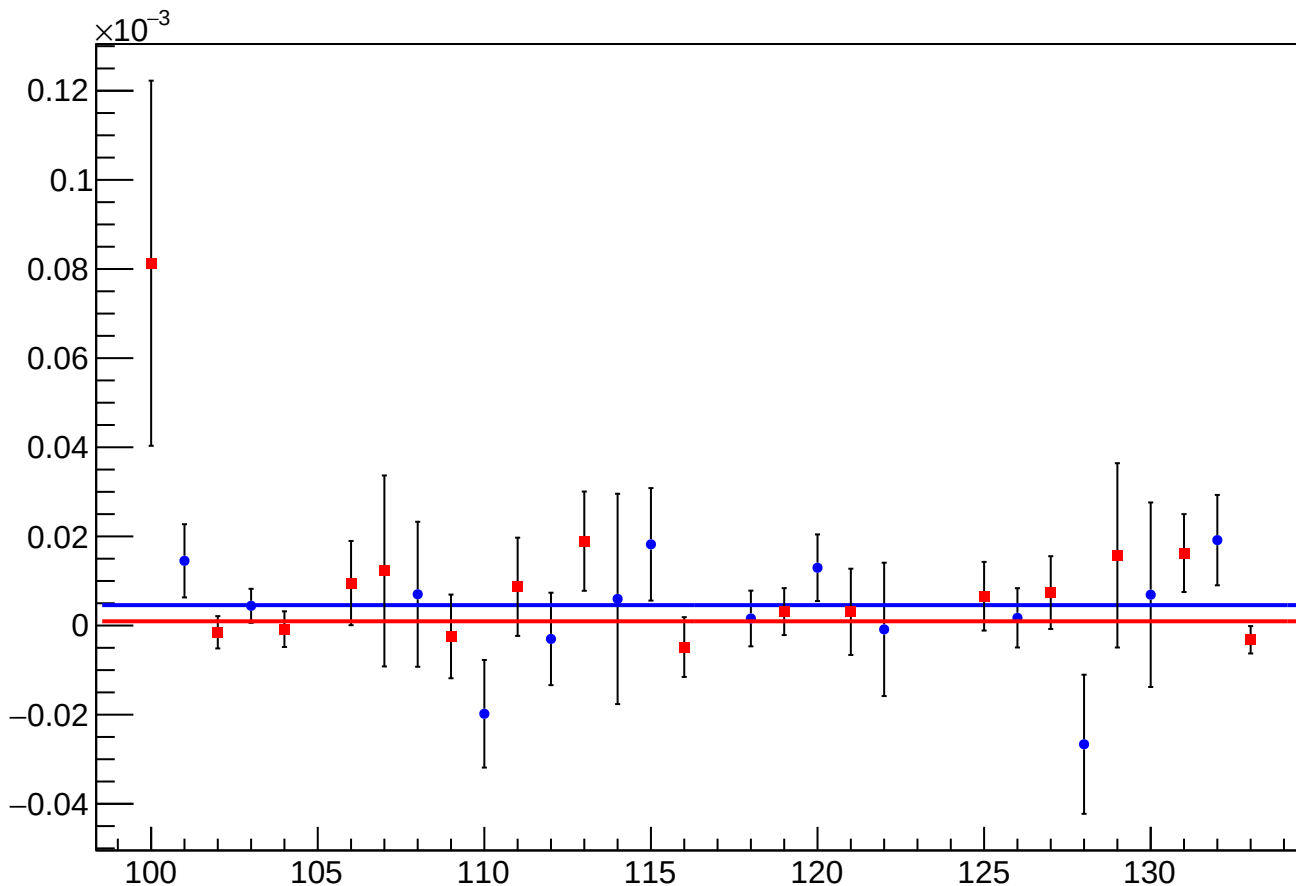
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 57.136+/-0.013  $\chi^2/\text{NDF}$ : 3582388.1/29

- 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: 15.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.4/15

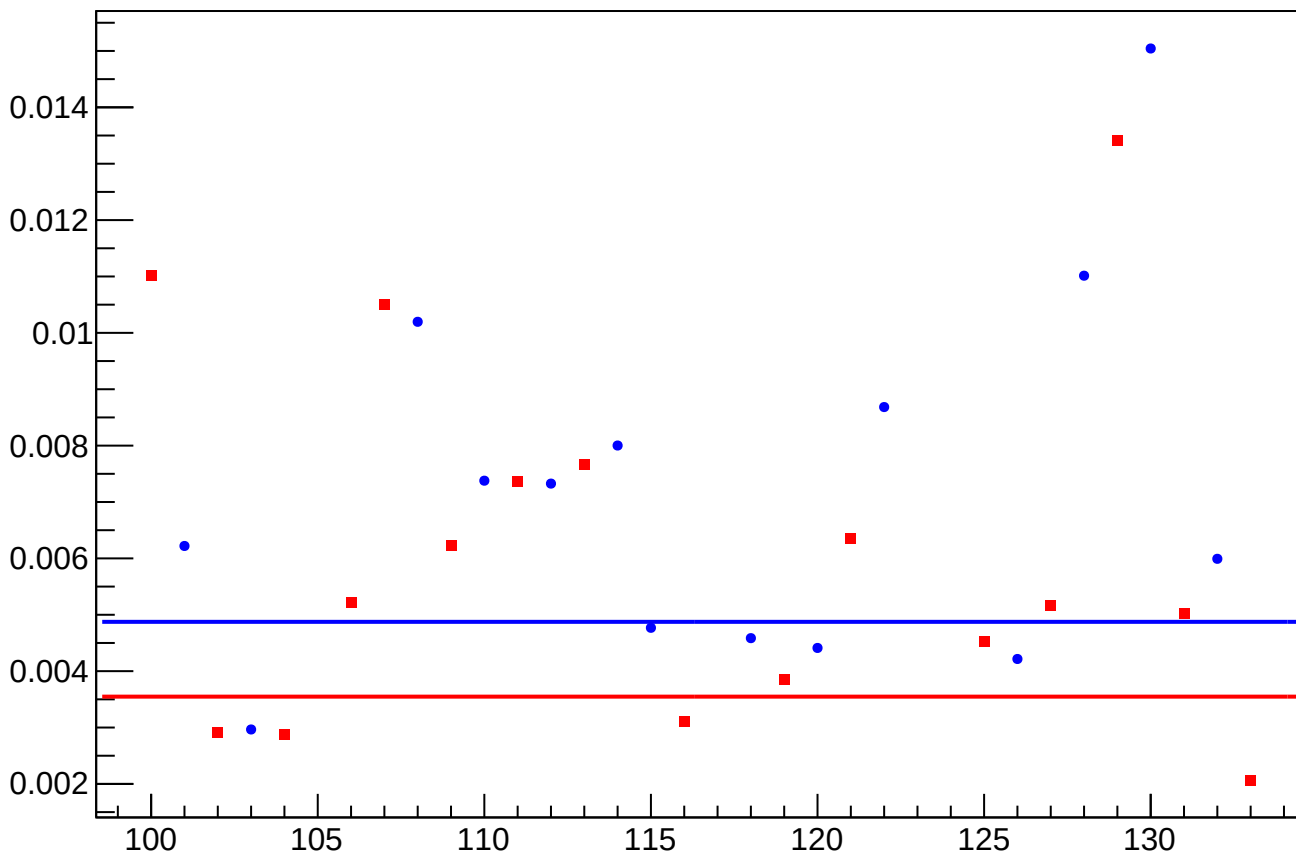
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 33.3/29

- 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: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1979641.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 2409442.9/15

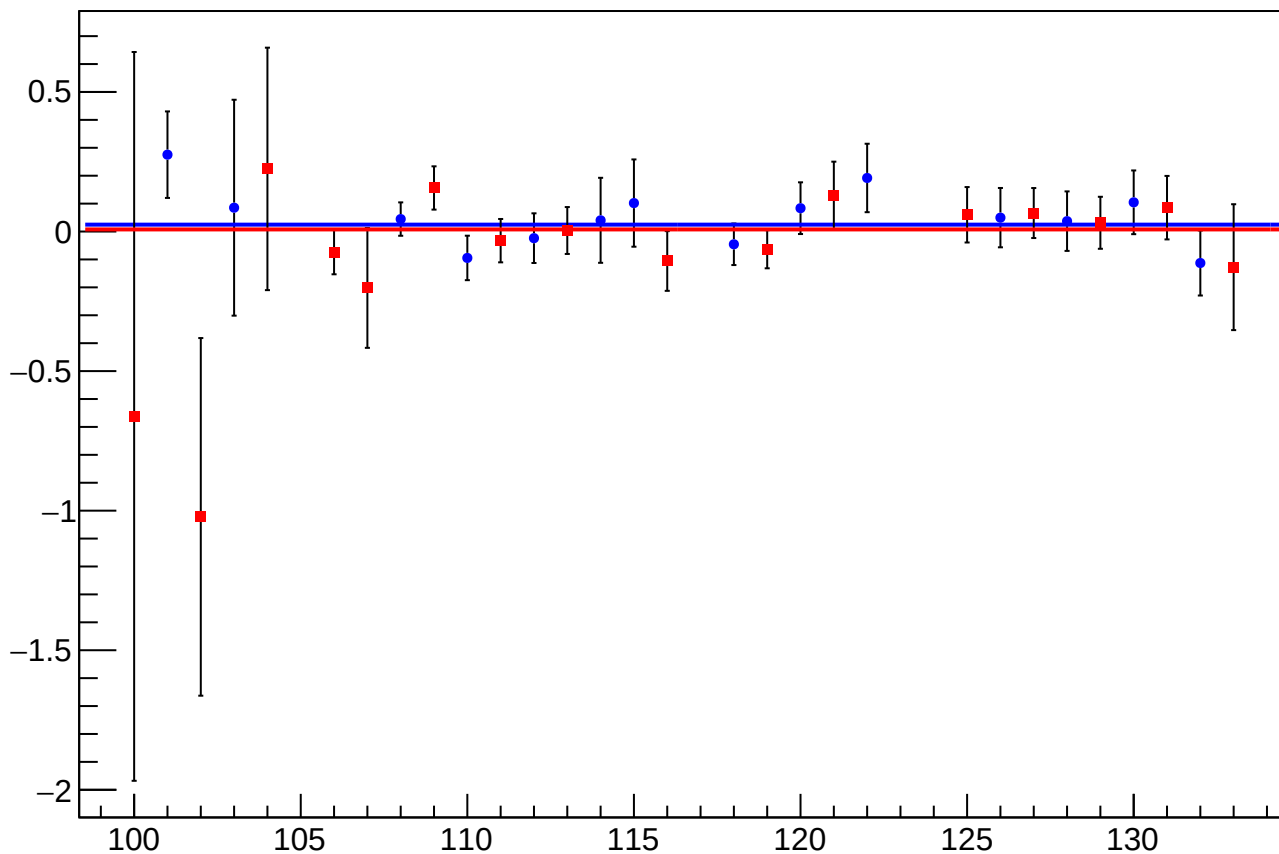
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 4856648.2/29

- 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: 0.025 $\pm$ 0.027  $\chi^2$ /NDF: 10.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.008 $\pm$ 0.026  $\chi^2$ /NDF: 13.8/15

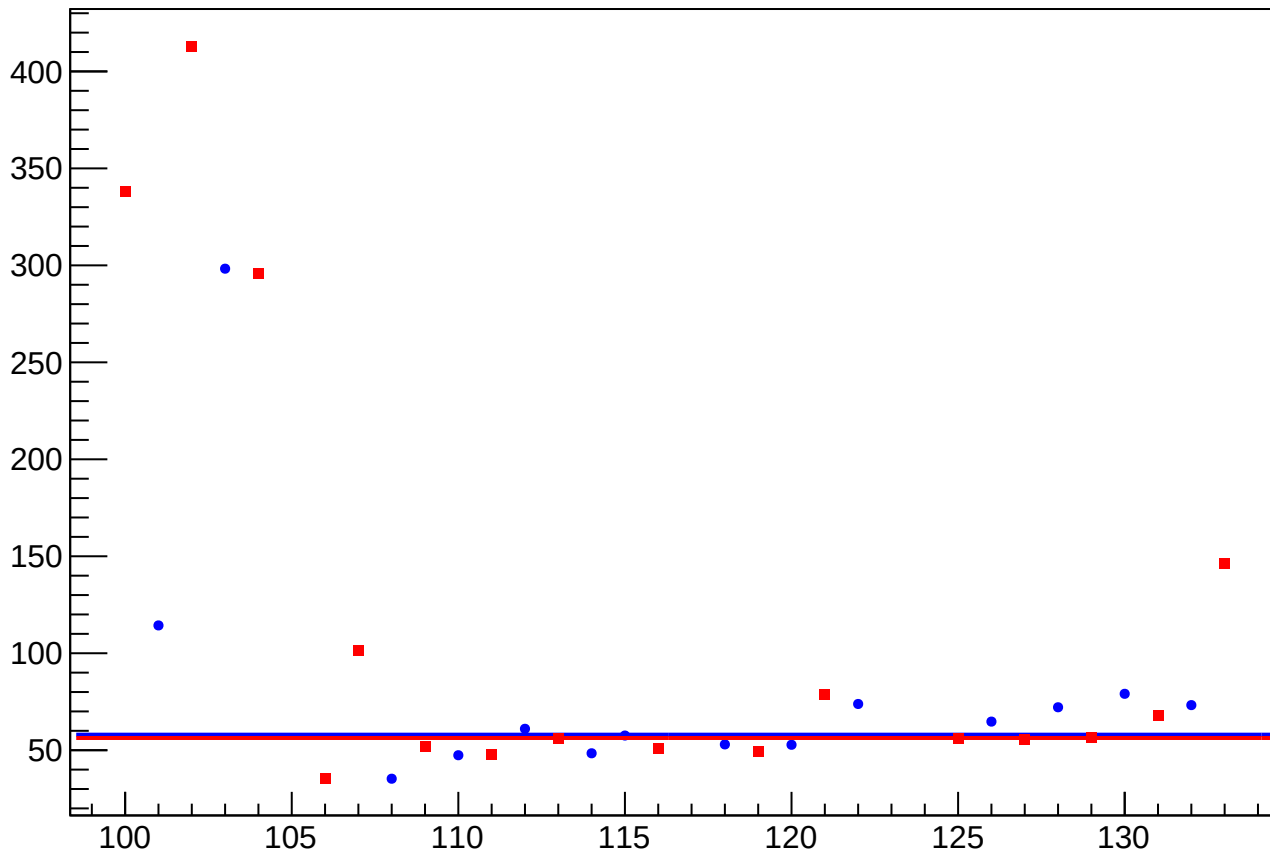
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.019  $\chi^2$ /NDF: 24.7/29

- 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: 58.017+/-0.019  $\chi^2/\text{NDF}$ : 1564620.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 56.307+/-0.018  $\chi^2/\text{NDF}$ : 2013421.8/15

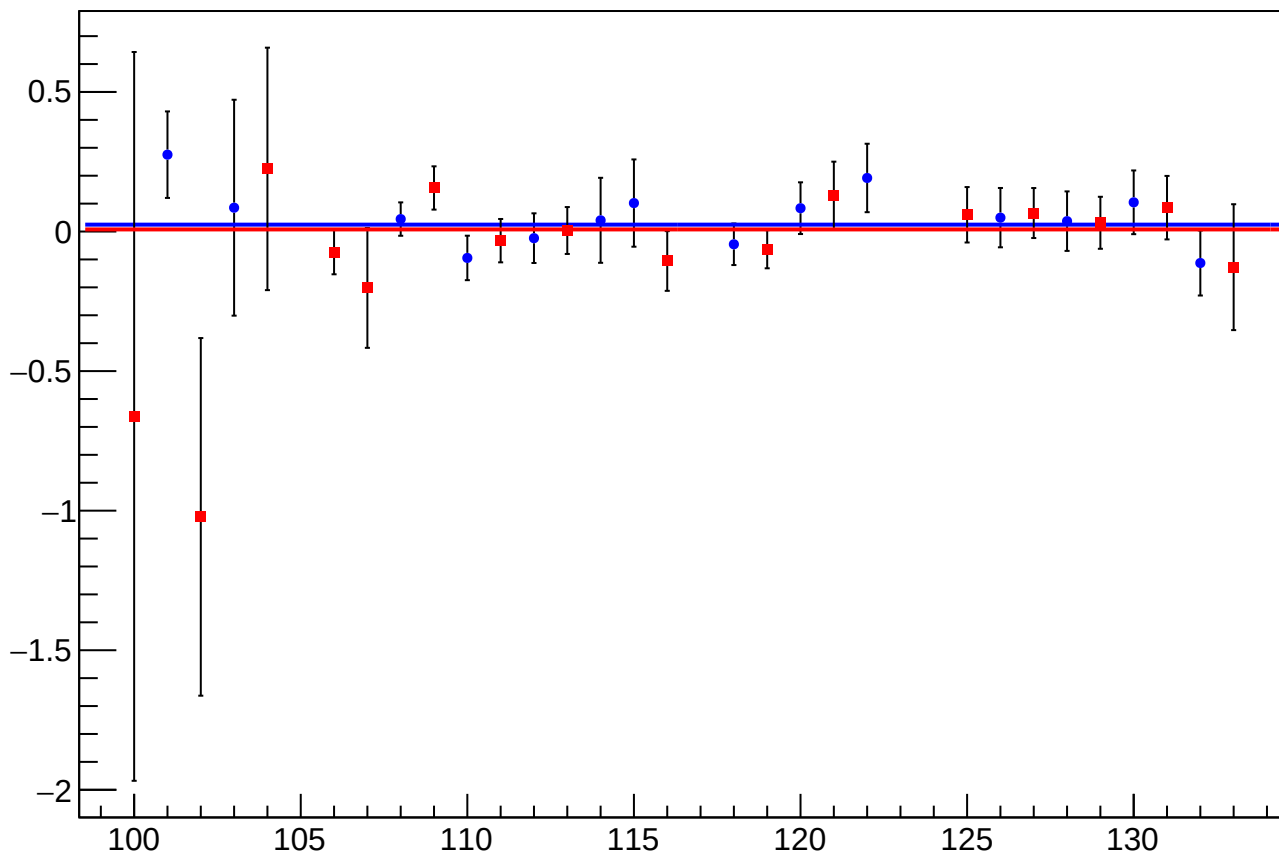
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 57.137+/-0.013  $\chi^2/\text{NDF}$ : 3582216.7/29

- 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:  $0.025 \pm 0.027$   $\chi^2/\text{NDF}$ : 10.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.008 \pm 0.026$   $\chi^2/\text{NDF}$ : 13.8/15

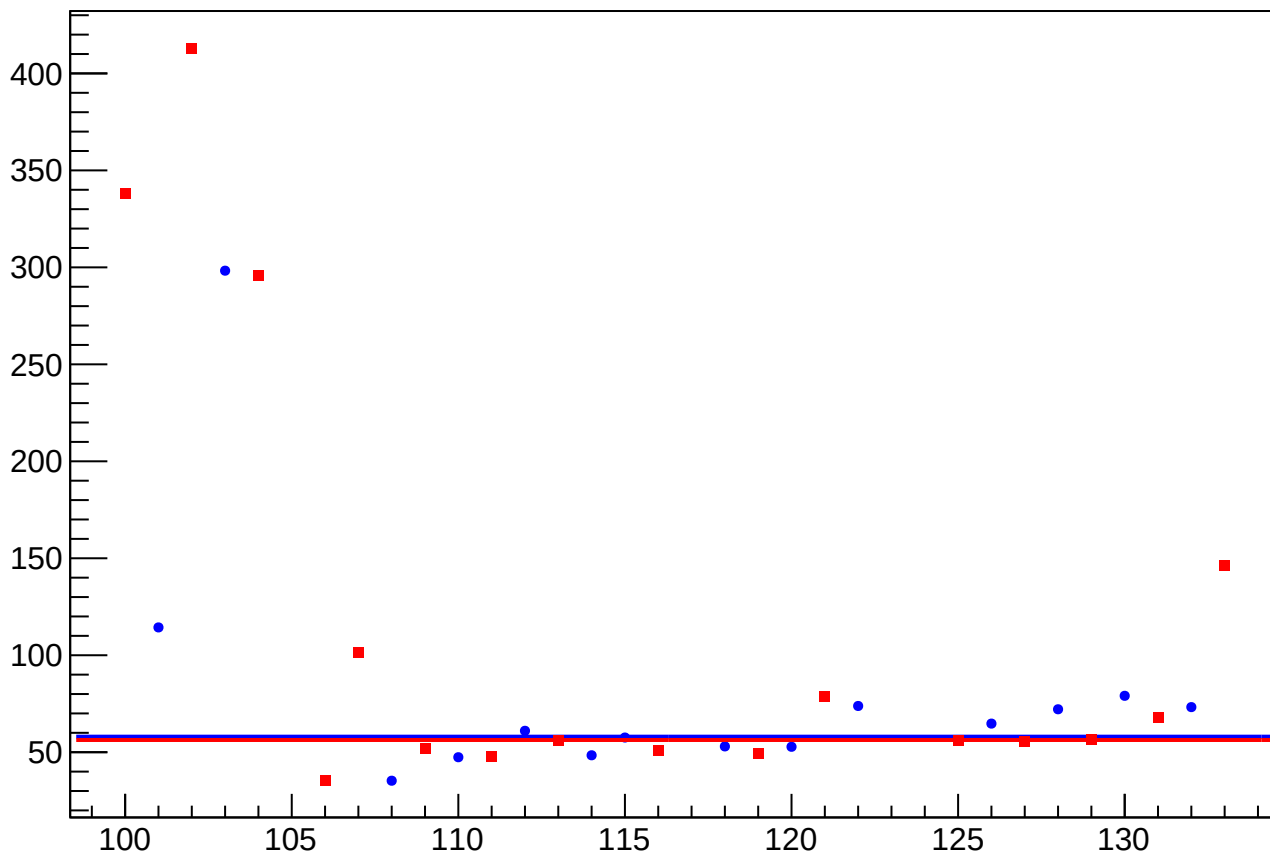
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.016 \pm 0.019$   $\chi^2/\text{NDF}$ : 24.7/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 58.017+/-0.019  $\chi^2/\text{NDF}$ : 1564620.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 56.307+/-0.018  $\chi^2/\text{NDF}$ : 2013421.8/15

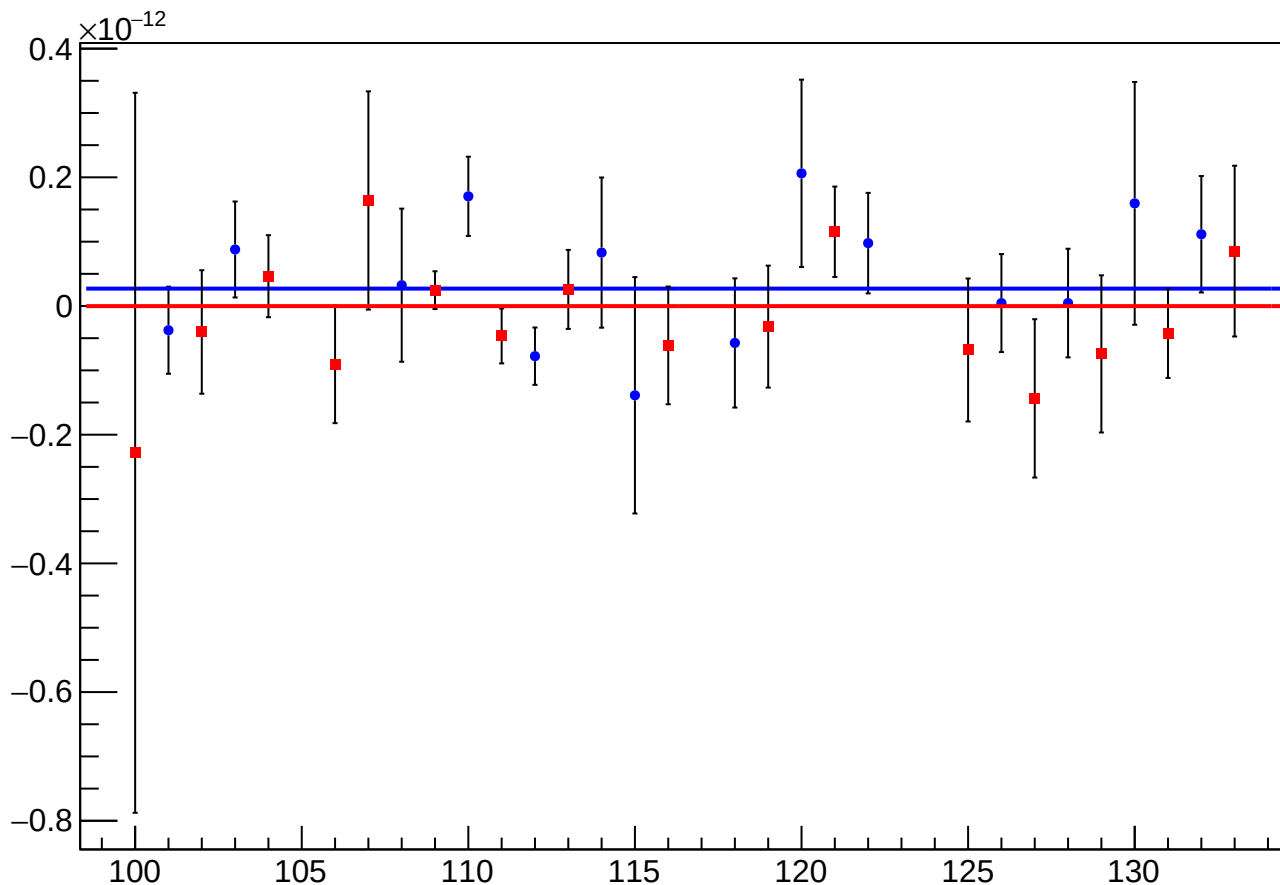
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 57.137+/-0.013  $\chi^2/\text{NDF}$ : 3582216.7/29

- 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  $\chi^2$ /NDF: 18.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.0/15

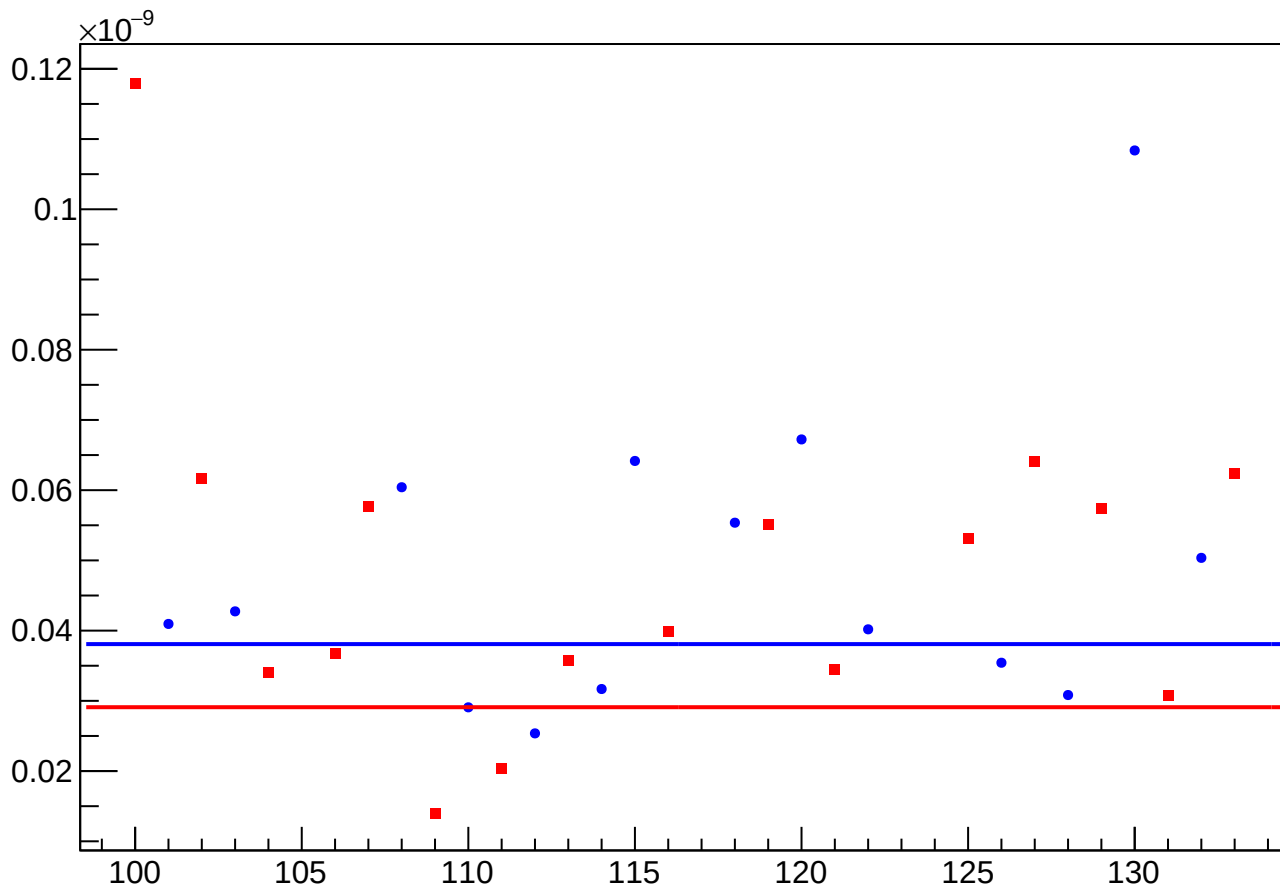
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 30.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 806523.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1680610.8/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

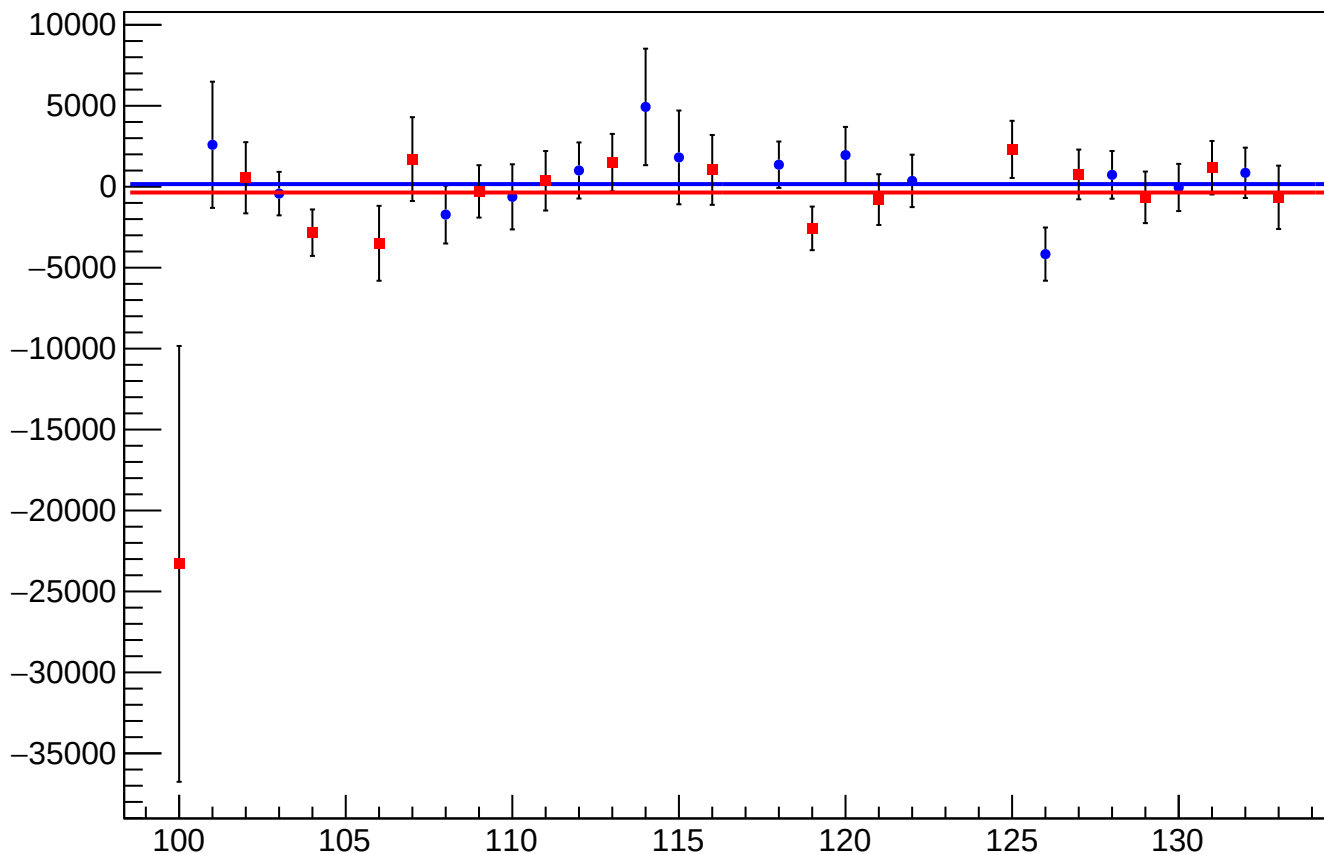
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2697542.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: 162.710 $\pm$ 465.098  $\chi^2$ /NDF: 13.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -356.947 $\pm$ 448.501  $\chi^2$ /NDF: 16.7/15

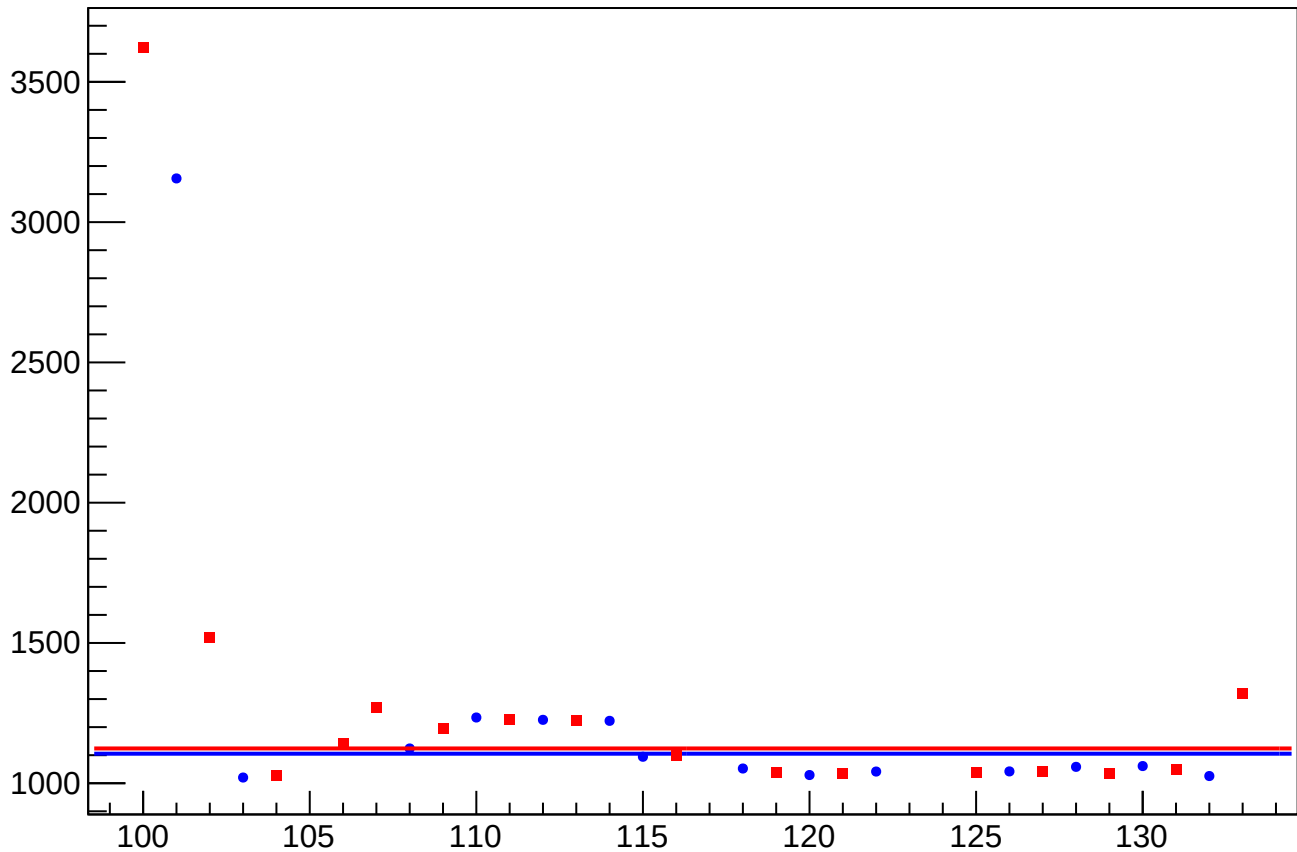
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -106.555 $\pm$ 322.846  $\chi^2$ /NDF: 30.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1105.271+/-0.329  $\chi^2/\text{NDF}$ : 603682.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1123.970+/-0.317  $\chi^2/\text{NDF}$ : 221493.9/15

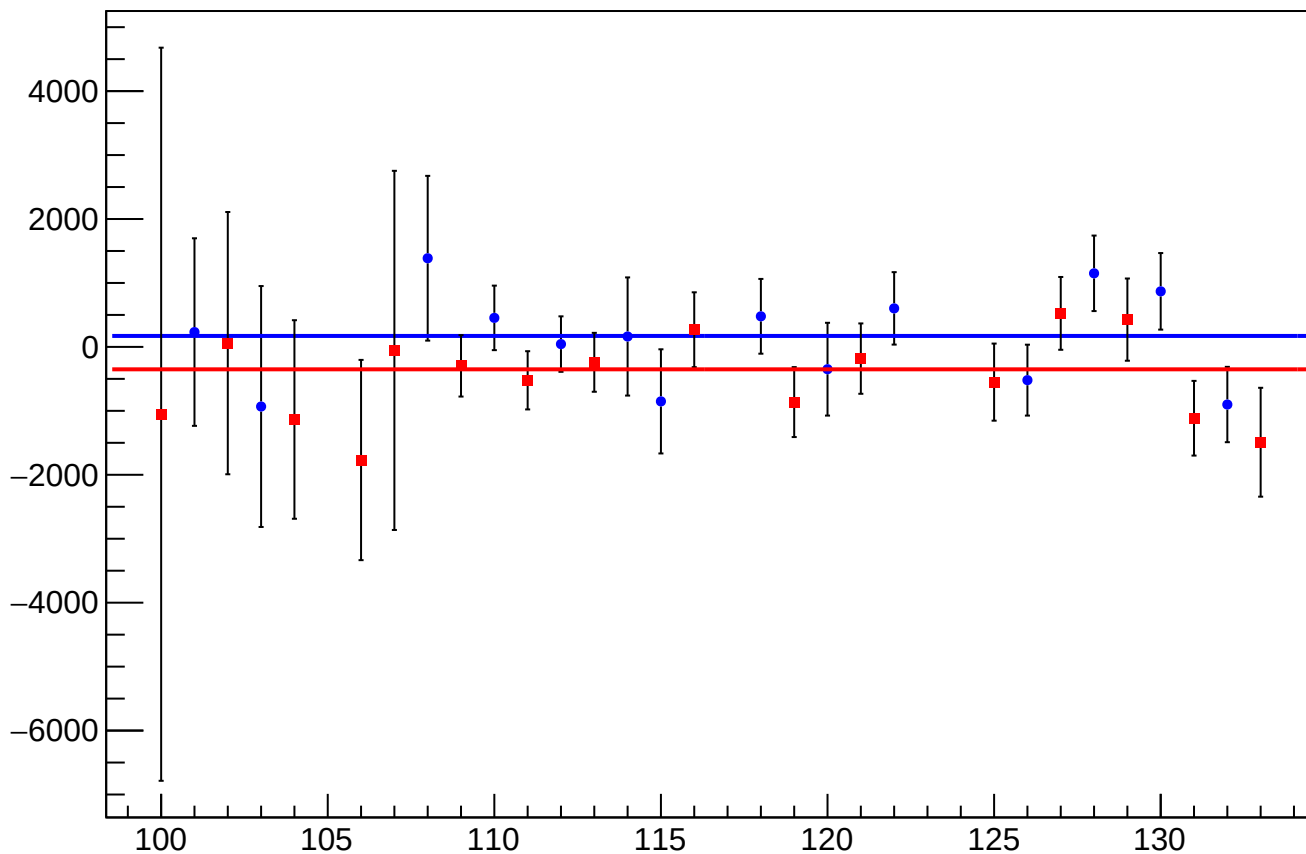
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1114.960+/-0.228  $\chi^2/\text{NDF}$ : 826851.5/29

- 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: 171.396 $\pm$ 174.055  $\chi^2$ /NDF: 13.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -350.775 $\pm$ 163.906  $\chi^2$ /NDF: 10.9/15

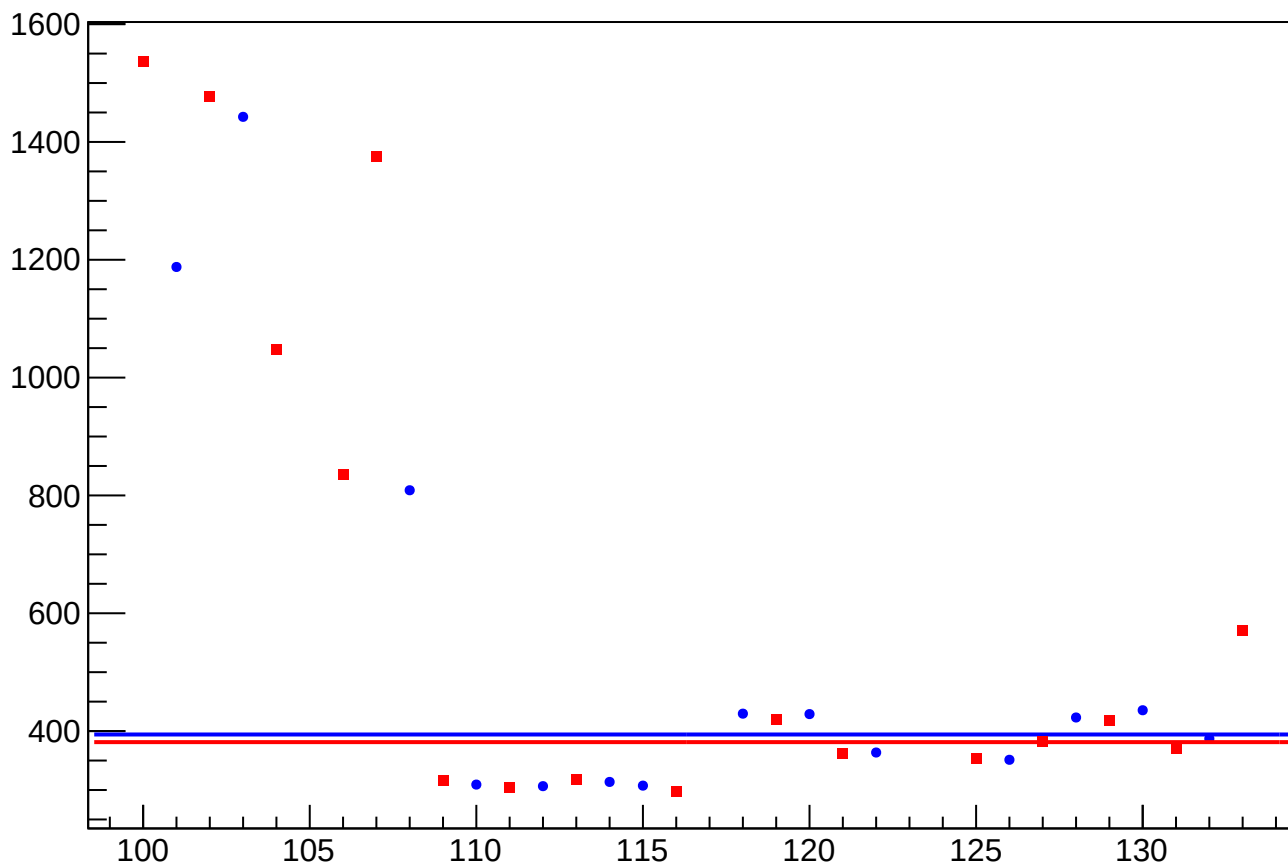
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -105.357 $\pm$ 119.326  $\chi^2$ /NDF: 29.2/29

- 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: 394.228+/-0.123  $\chi^2/\text{NDF}$ : 1632761.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 381.266+/-0.116  $\chi^2/\text{NDF}$ : 1737843.2/15

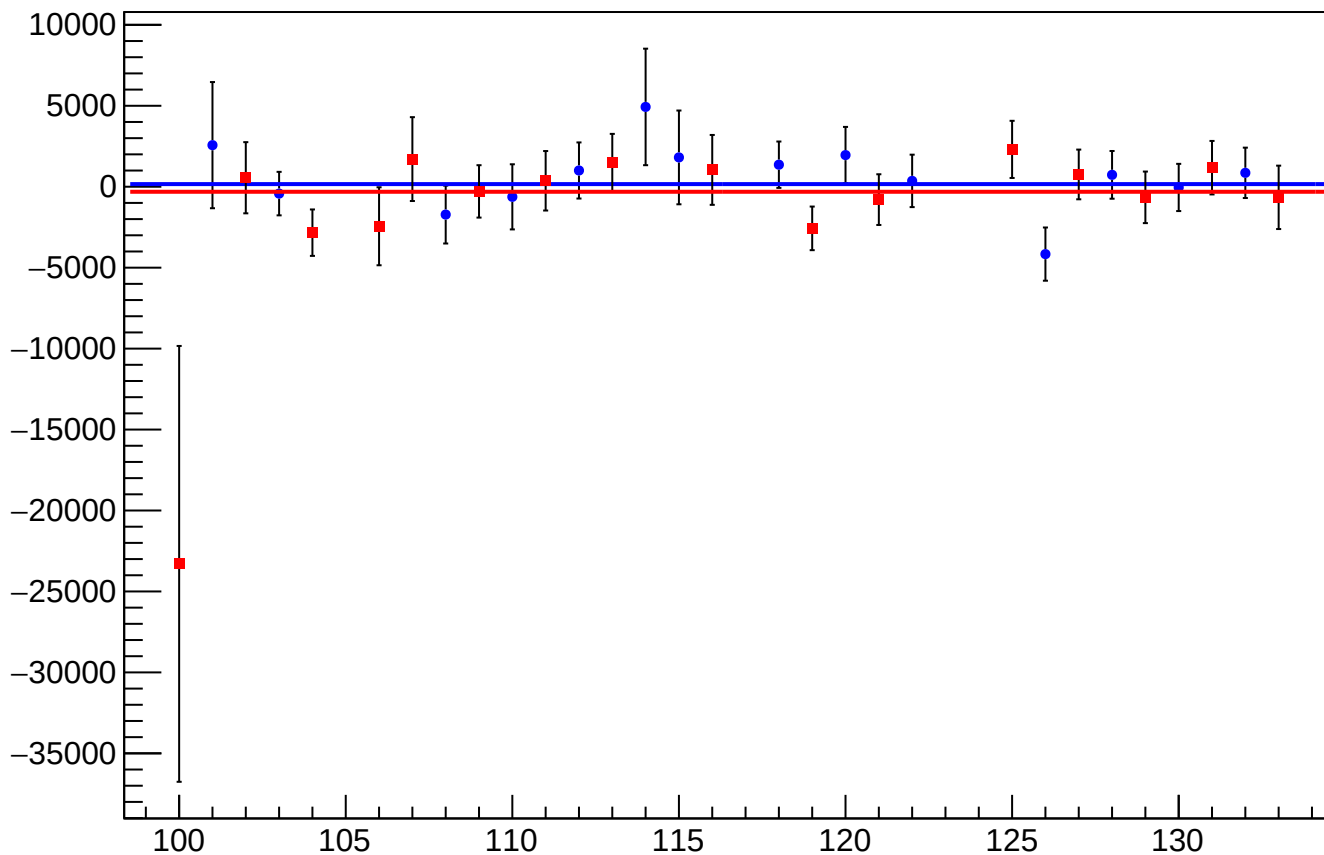
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 387.358+/-0.084  $\chi^2/\text{NDF}$ : 3376483.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: 162.247+/-465.098  $\chi^2/\text{NDF}$ : 13.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -311.295+/-449.153  $\chi^2/\text{NDF}$ : 15.6/15

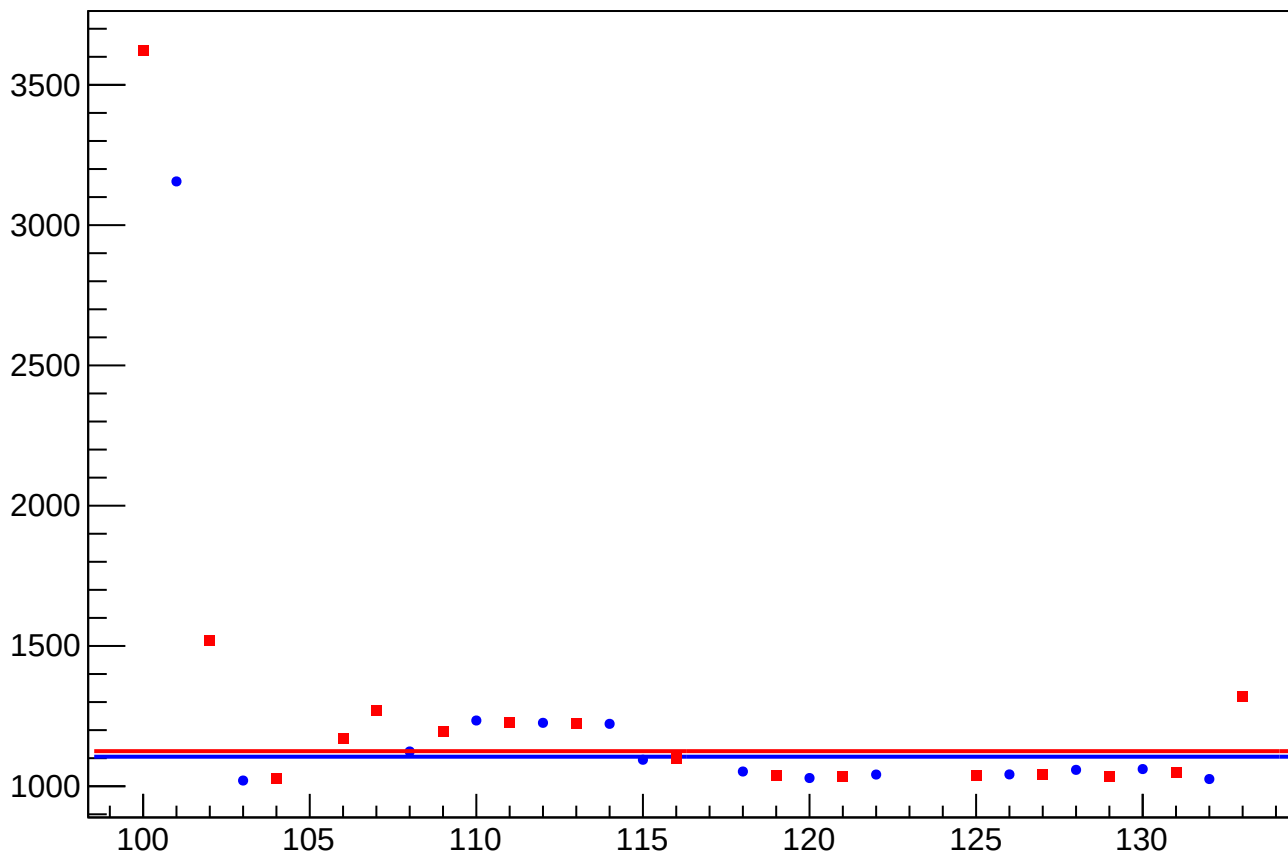
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -82.780+/-323.089  $\chi^2/\text{NDF}$ : 29.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1105.271+/-0.329  $\chi^2/\text{NDF}$ : 603683.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1125.013+/-0.318  $\chi^2/\text{NDF}$ : 222169.5/15

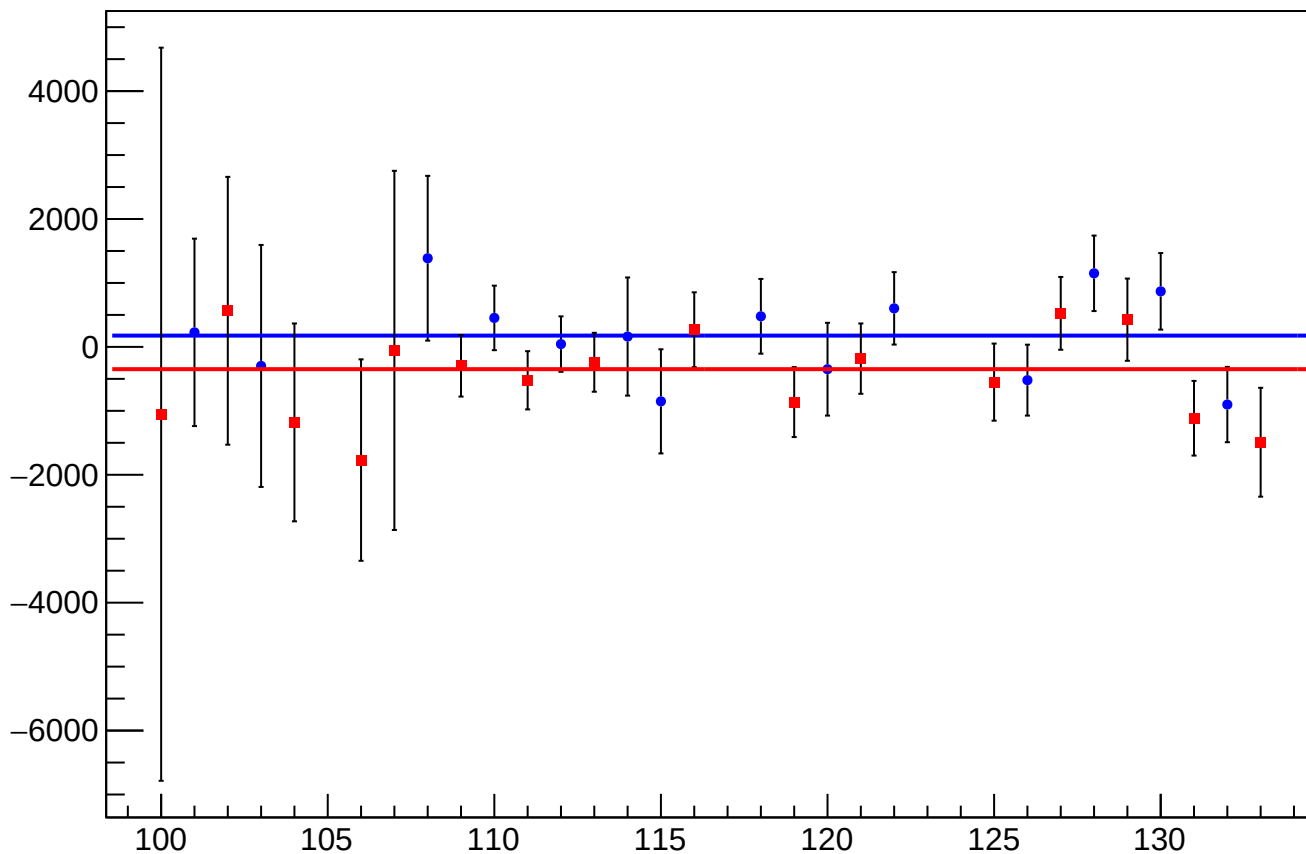
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1115.486+/-0.228  $\chi^2/\text{NDF}$ : 827717.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_cor\_correction\_mean vs Slug



Right In: 176.572 $\pm$ 174.057  $\chi^2$ /NDF: 13.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -348.260 $\pm$ 163.933  $\chi^2$ /NDF: 11.1/15

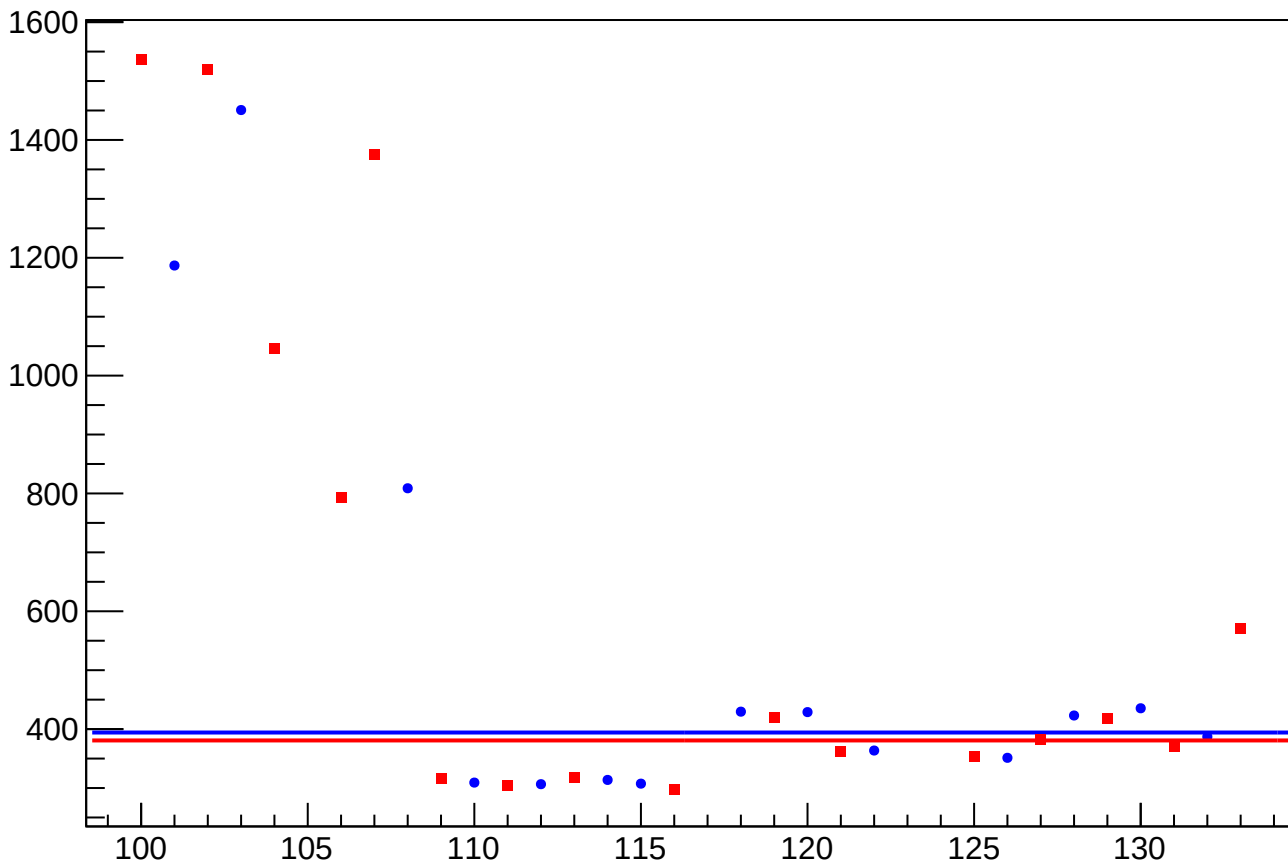
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -101.550 $\pm$ 119.337  $\chi^2$ /NDF: 29.2/29

- 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: 394.213+/-0.123  $\chi^2/\text{NDF}$ : 1636434.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 380.754+/-0.116  $\chi^2/\text{NDF}$ : 1725522.1/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

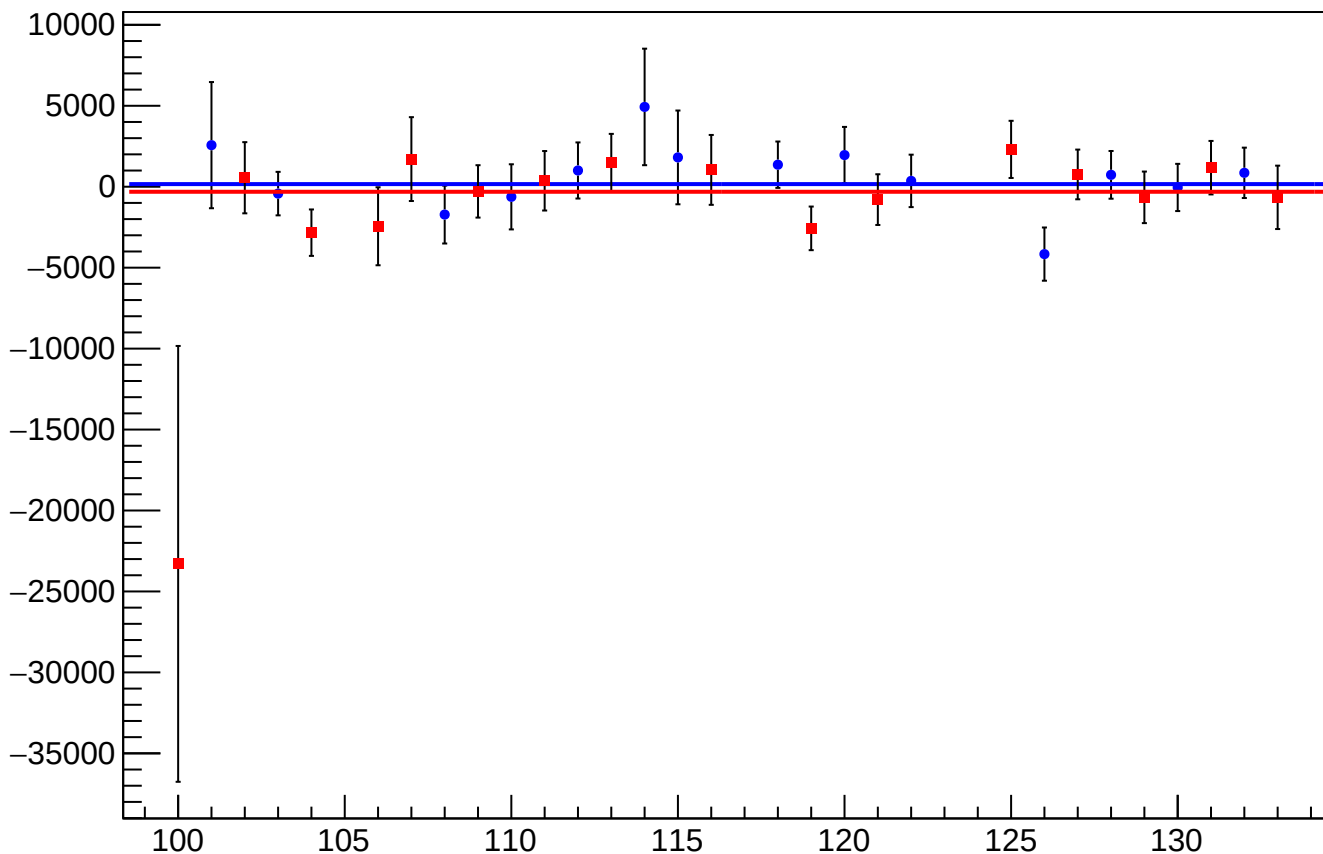
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 387.081+/-0.084  $\chi^2/\text{NDF}$ : 3368294.1/29

- 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: 162.247 $\pm$ 465.098  $\chi^2$ /NDF: 13.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -311.295 $\pm$ 449.153  $\chi^2$ /NDF: 15.6/15

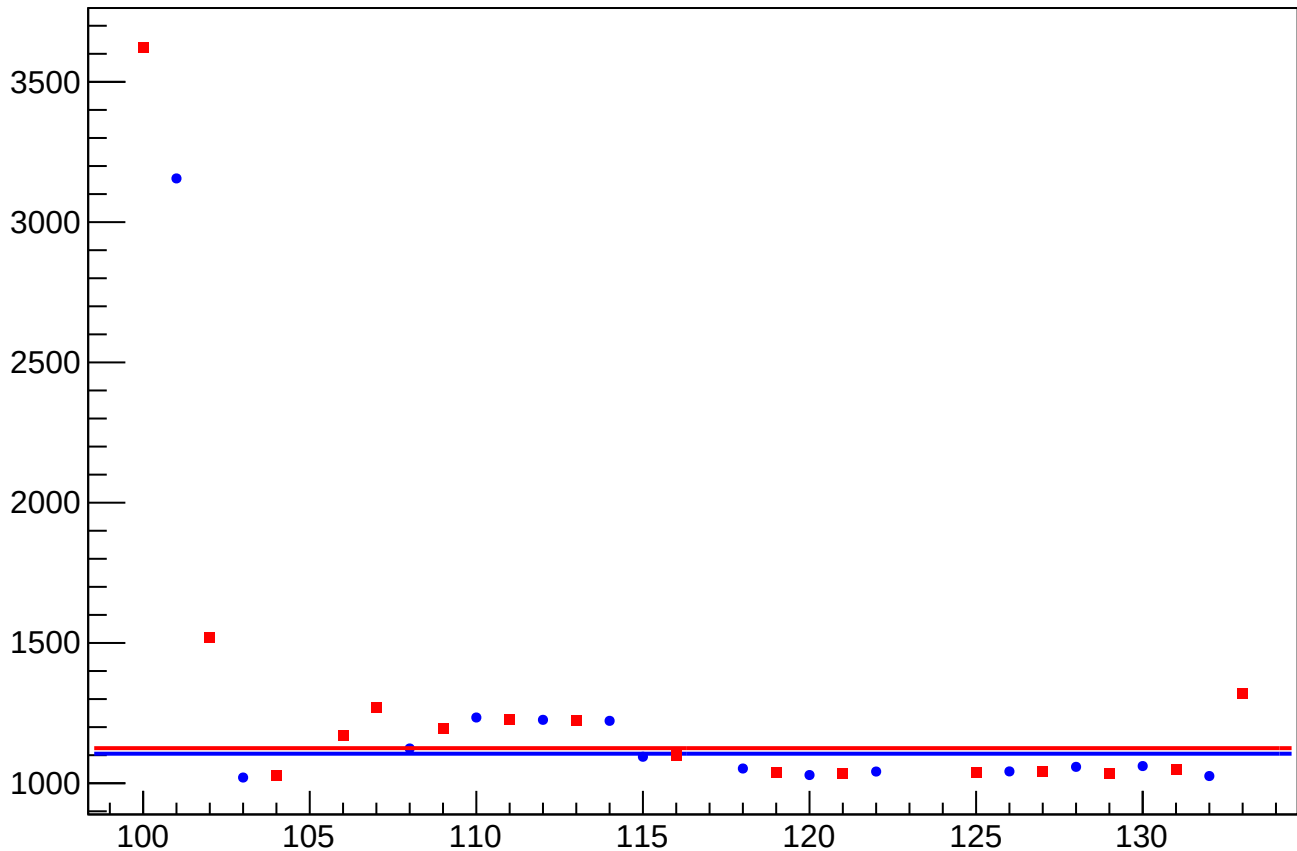
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -82.780 $\pm$ 323.089  $\chi^2$ /NDF: 29.4/29

- 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: 1105.271+/-0.329  $\chi^2/\text{NDF}$ : 603683.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1125.013+/-0.318  $\chi^2/\text{NDF}$ : 222169.5/15

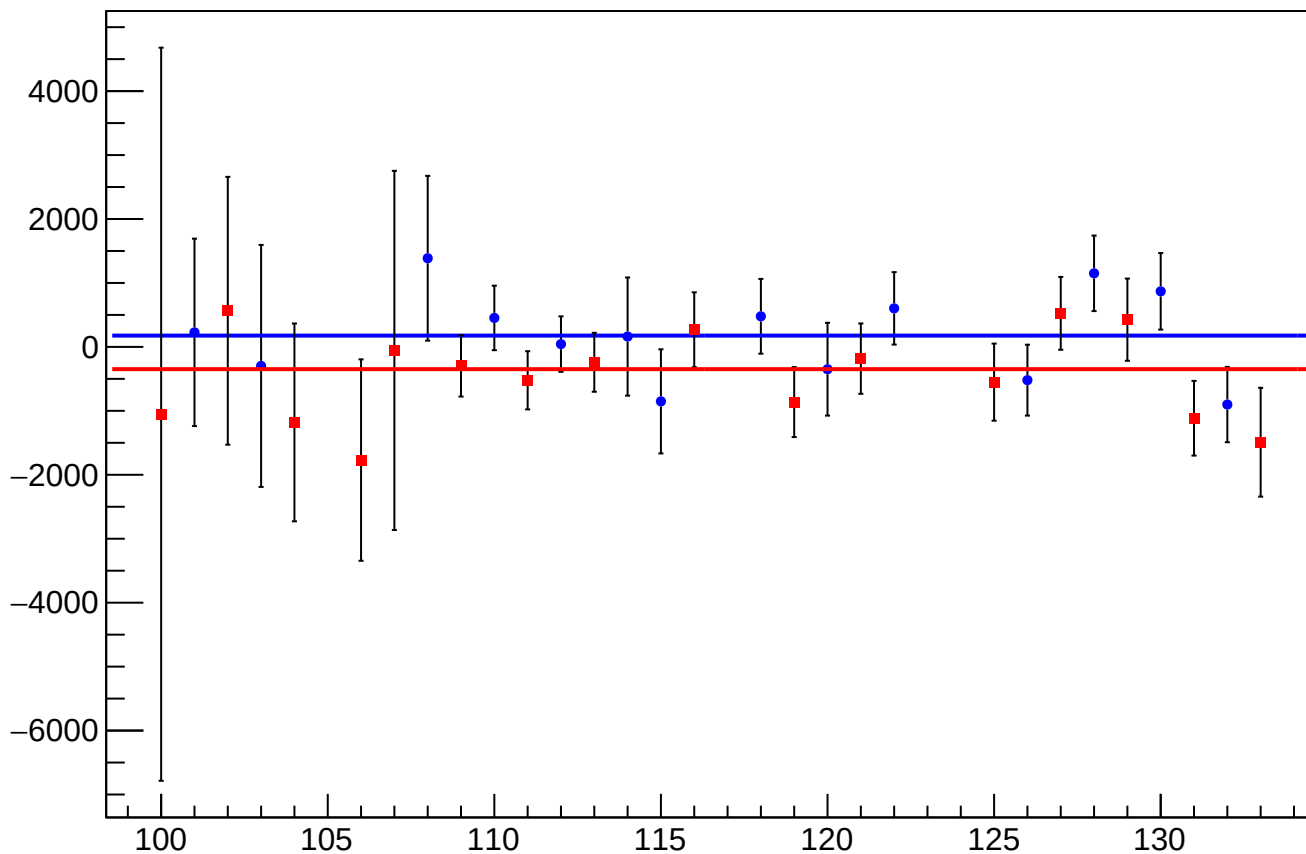
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1115.486+/-0.228  $\chi^2/\text{NDF}$ : 827717.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 176.572 $\pm$ 174.057  $\chi^2$ /NDF: 13.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -348.260 $\pm$ 163.933  $\chi^2$ /NDF: 11.1/15

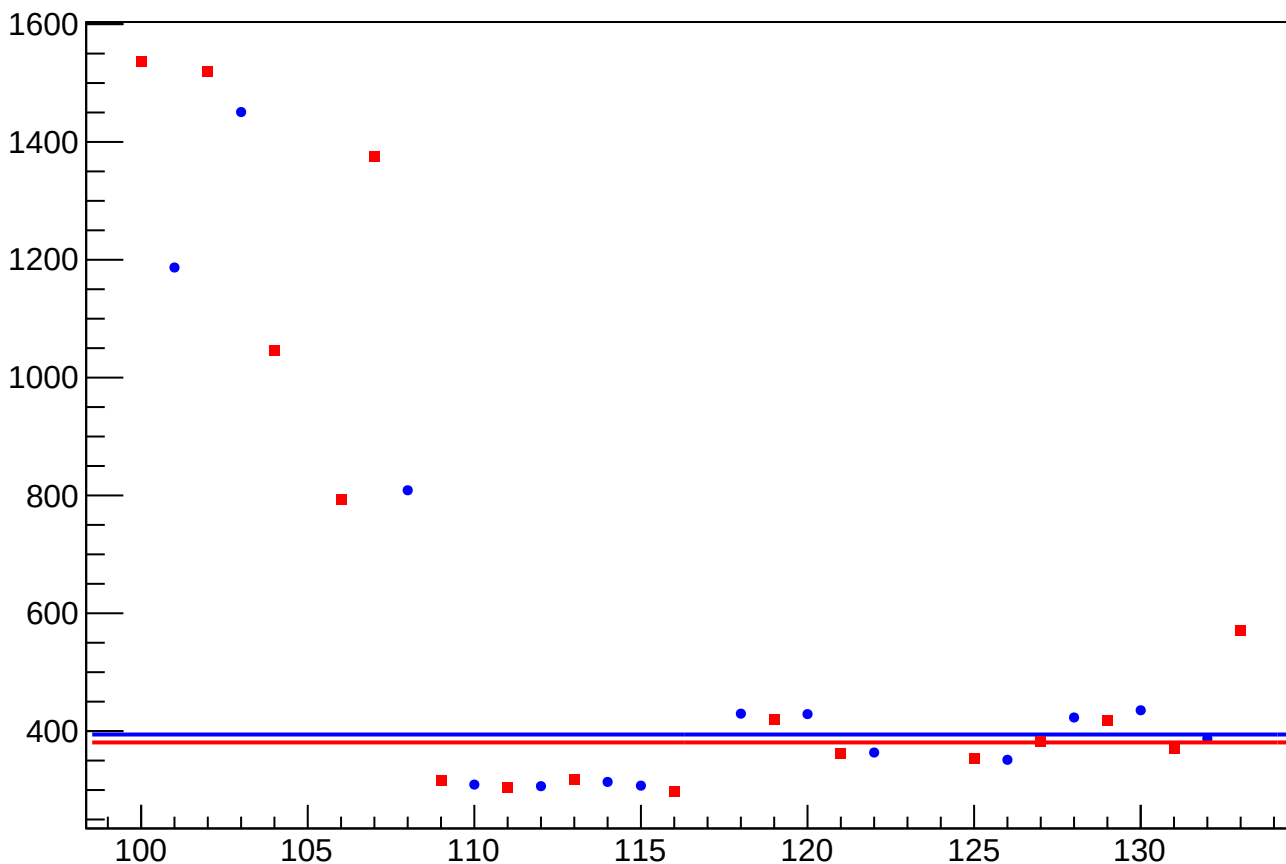
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -101.550 $\pm$ 119.337  $\chi^2$ /NDF: 29.2/29

- 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: 394.213+/-0.123  $\chi^2/\text{NDF}$ : 1636434.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 380.754+/-0.116  $\chi^2/\text{NDF}$ : 1725522.1/15

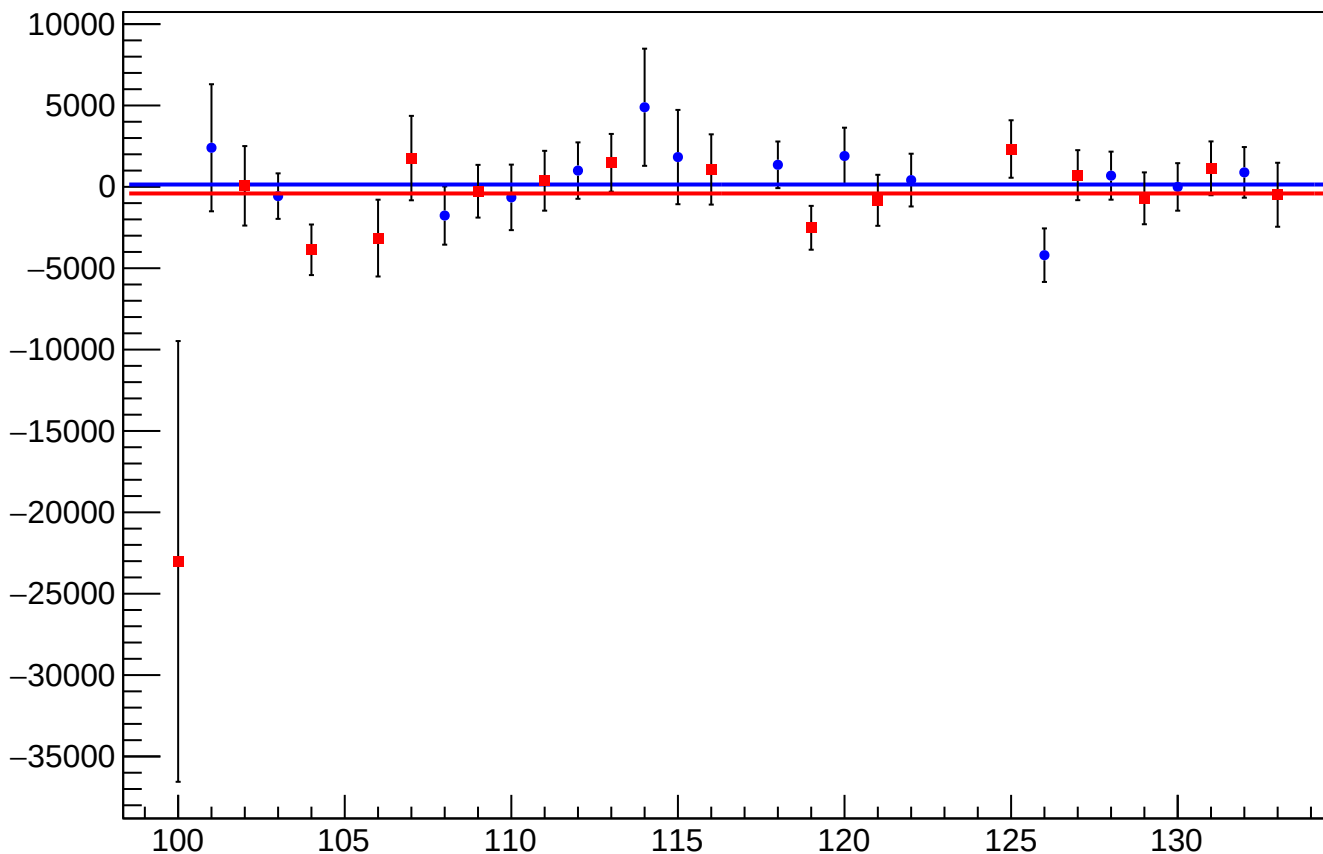
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 387.081+/-0.084  $\chi^2/\text{NDF}$ : 3368294.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: 143.697 $\pm$ 467.550  $\chi^2$ /NDF: 13.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -406.888 $\pm$ 454.300  $\chi^2$ /NDF: 18.0/15

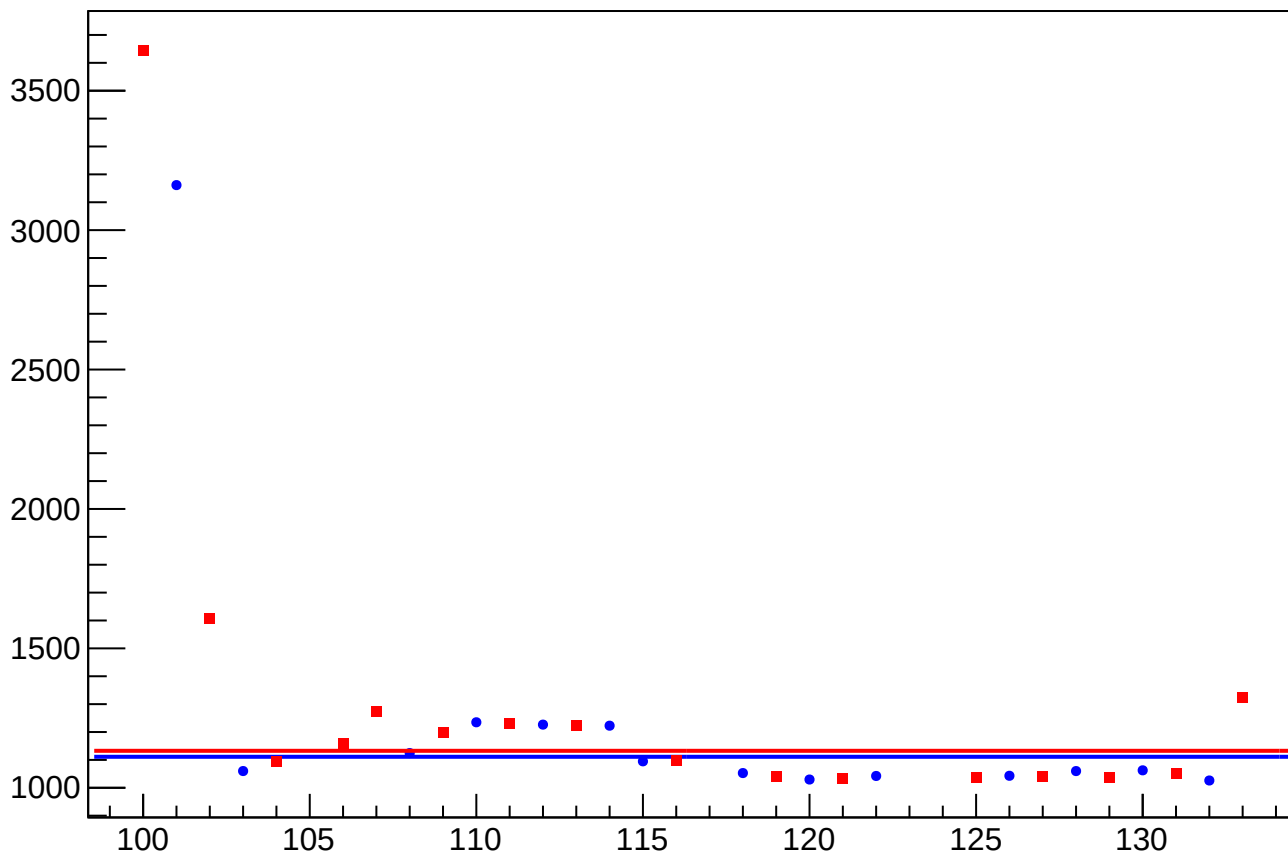
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -139.507 $\pm$ 325.822  $\chi^2$ /NDF: 32.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1111.202+/-0.331  $\chi^2/\text{NDF}$ : 598128.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1132.632+/-0.321  $\chi^2/\text{NDF}$ : 227110.2/15

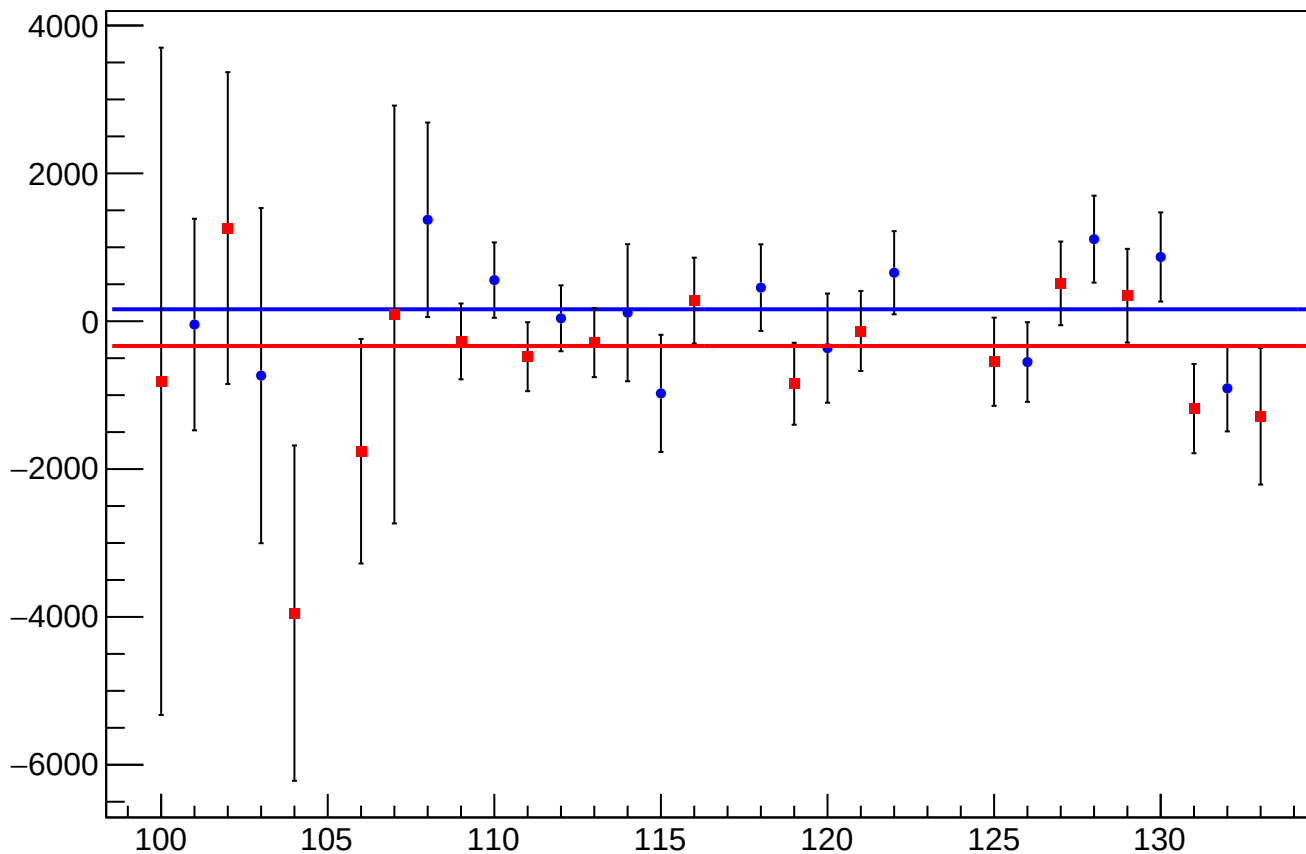
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1122.225+/-0.230  $\chi^2/\text{NDF}$ : 827400.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_dit\_correction\_mean vs Slug



Right In: 161.516 $\pm$ 174.501  $\chi^2$ /NDF: 14.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -335.221 $\pm$ 166.738  $\chi^2$ /NDF: 12.8/15

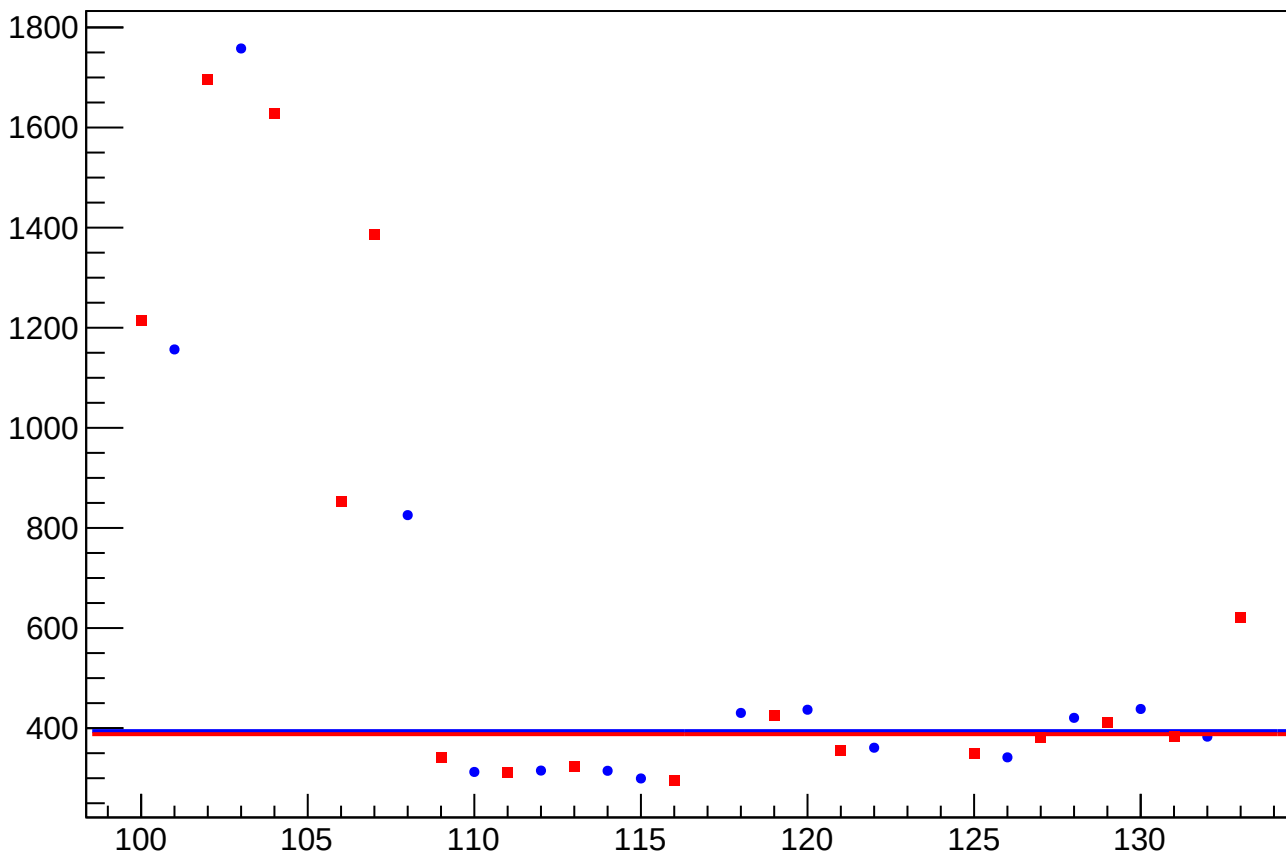
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -98.149 $\pm$ 120.553  $\chi^2$ /NDF: 31.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_dit\_correction\_rms vs Slug



Right In: 394.055+/-0.123  $\chi^2/\text{NDF}$ : 1720021.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 387.988+/-0.118  $\chi^2/\text{NDF}$ : 2183536.9/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

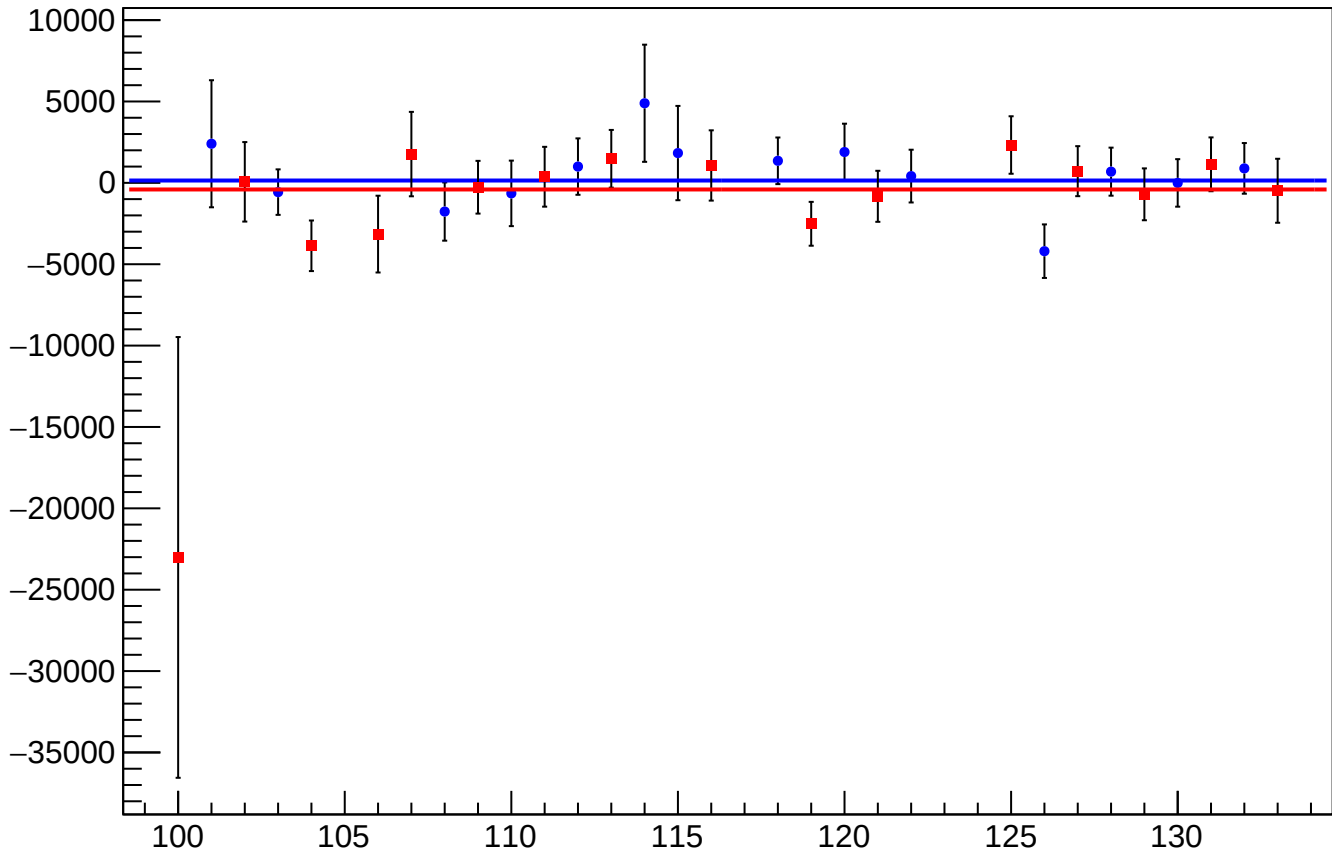
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 390.883+/-0.085  $\chi^2/\text{NDF}$ : 3904821.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



eigen\_dit\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: 143.693 $\pm$ 467.550  $\chi^2$ /NDF: 13.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -406.888 $\pm$ 454.300  $\chi^2$ /NDF: 18.0/15

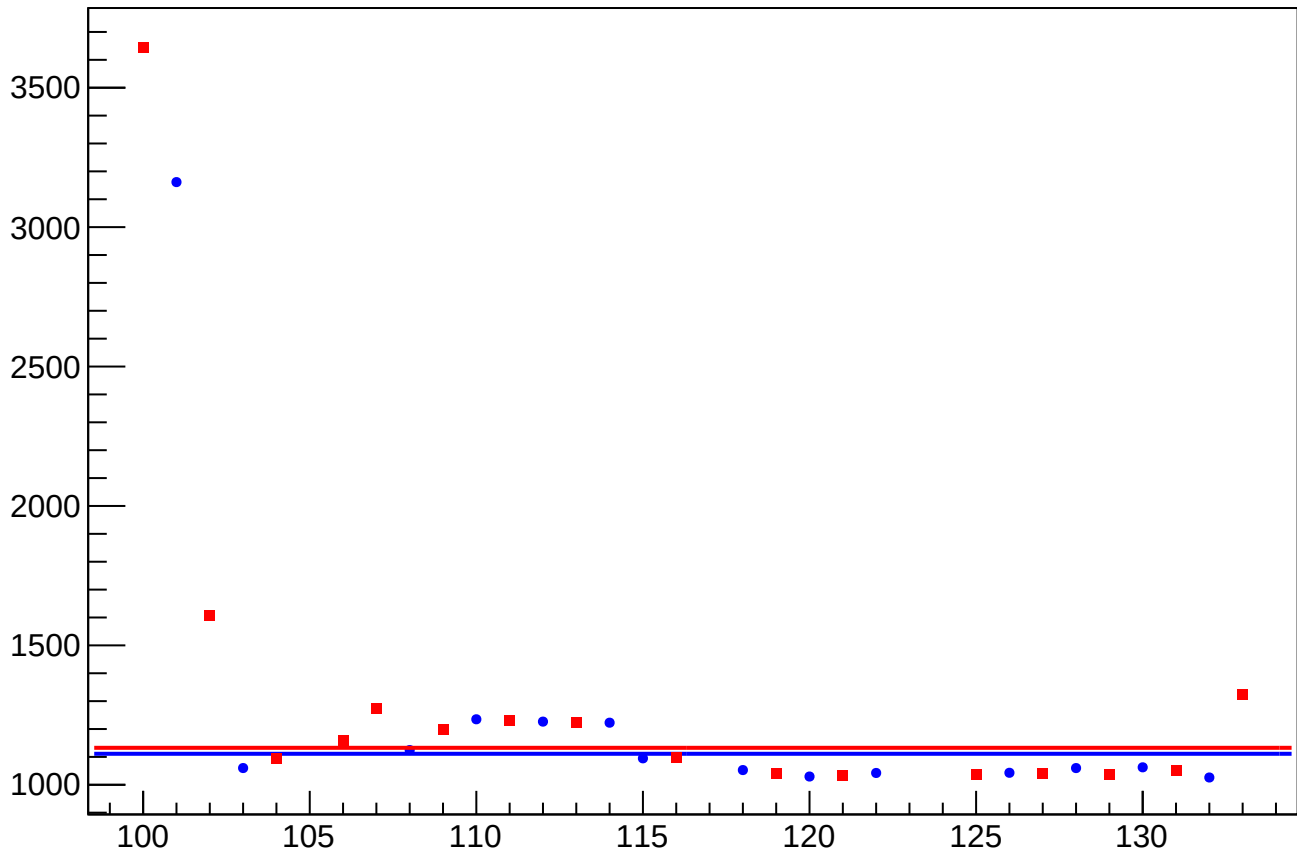
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -139.509 $\pm$ 325.822  $\chi^2$ /NDF: 32.0/29

- 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: 1111.202+/-0.331  $\chi^2/\text{NDF}$ : 598128.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1132.632+/-0.321  $\chi^2/\text{NDF}$ : 227110.3/15

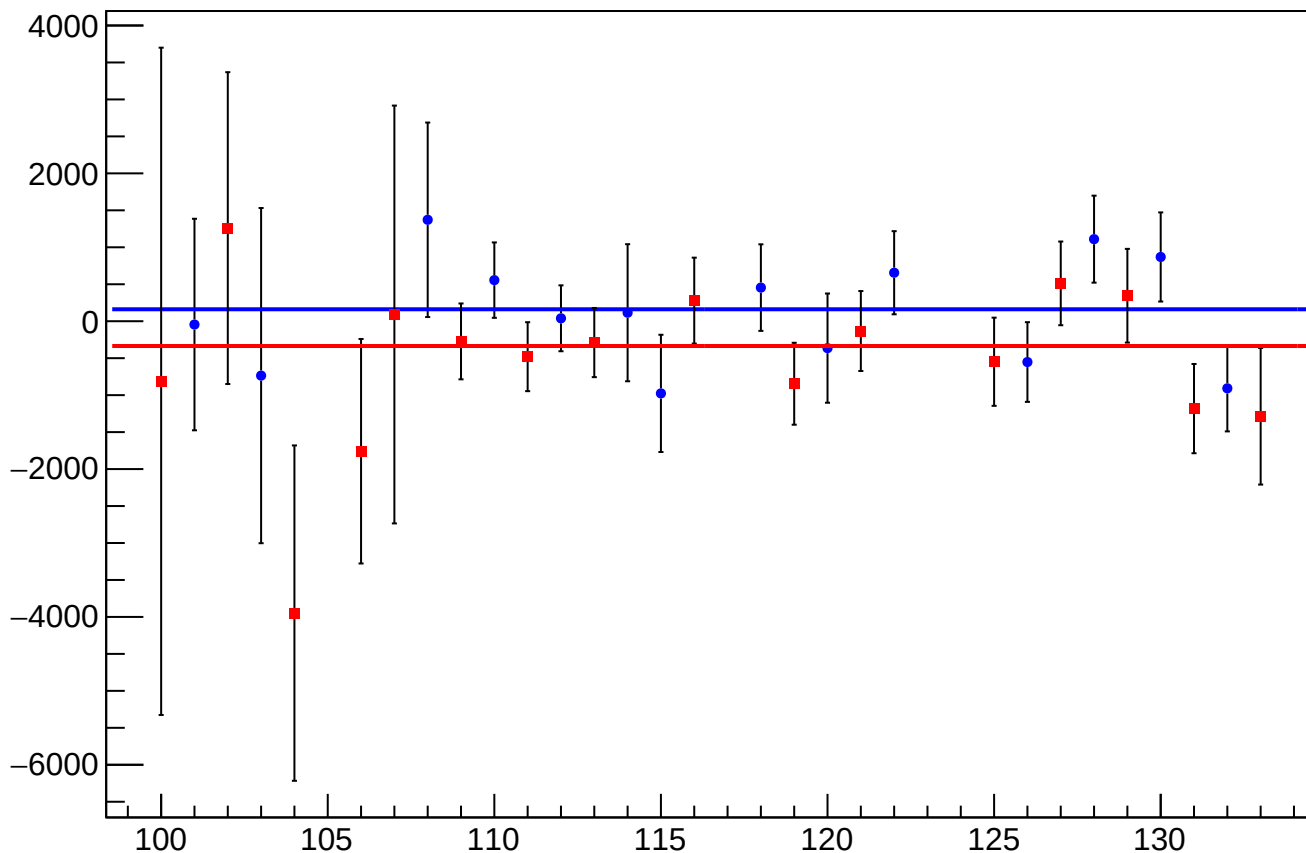
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1122.225+/-0.230  $\chi^2/\text{NDF}$ : 827400.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 161.512 $\pm$ 174.501  $\chi^2$ /NDF: 14.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -335.220 $\pm$ 166.737  $\chi^2$ /NDF: 12.8/15

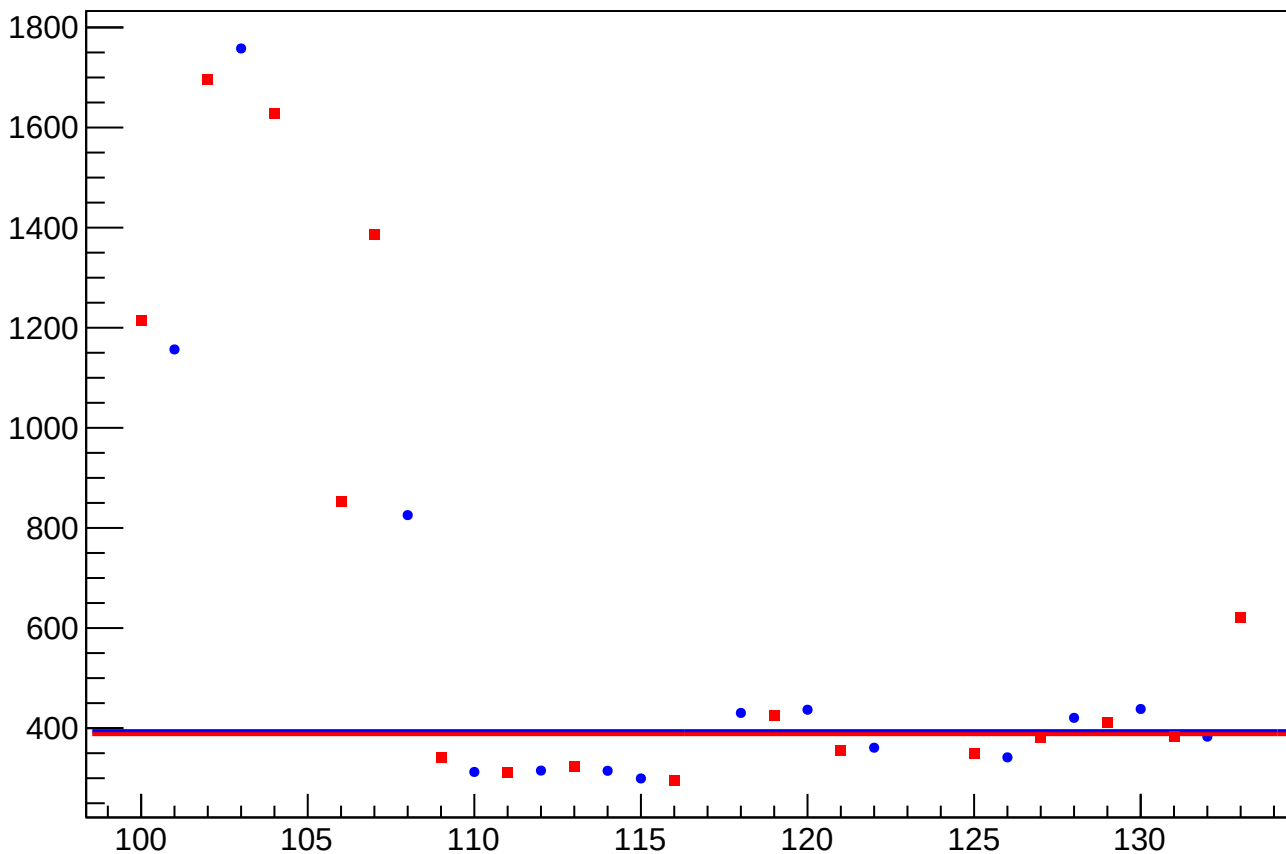
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -98.150 $\pm$ 120.552  $\chi^2$ /NDF: 31.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 394.053+/-0.123  $\chi^2/\text{NDF}$ : 1720021.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 387.986+/-0.118  $\chi^2/\text{NDF}$ : 2183549.3/15

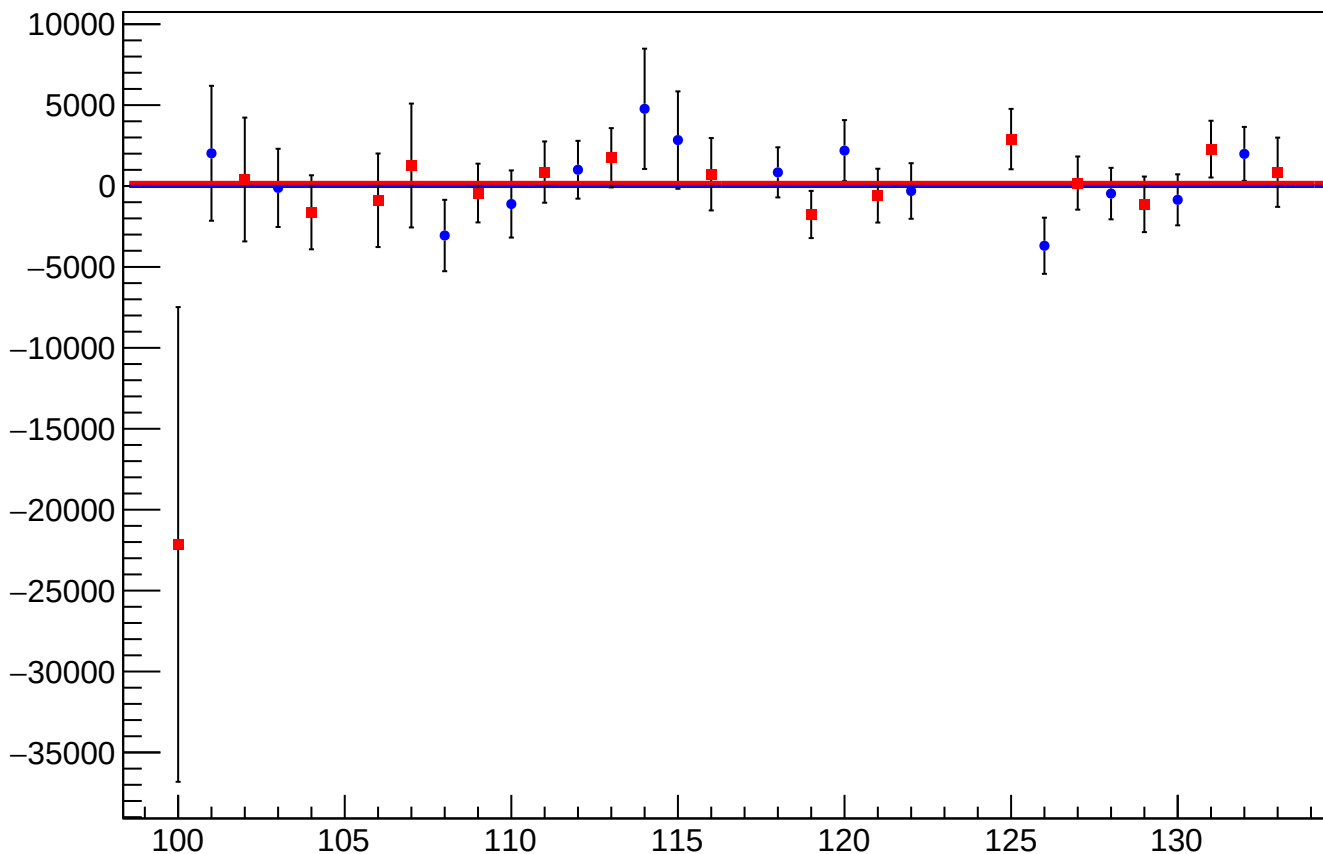
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 390.881+/-0.085  $\chi^2/\text{NDF}$ : 3904834.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug



Right In: 2.936+/-520.617  $\chi^2/\text{NDF}$ : 13.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 198.577+/-506.064  $\chi^2/\text{NDF}$ : 10.4/15

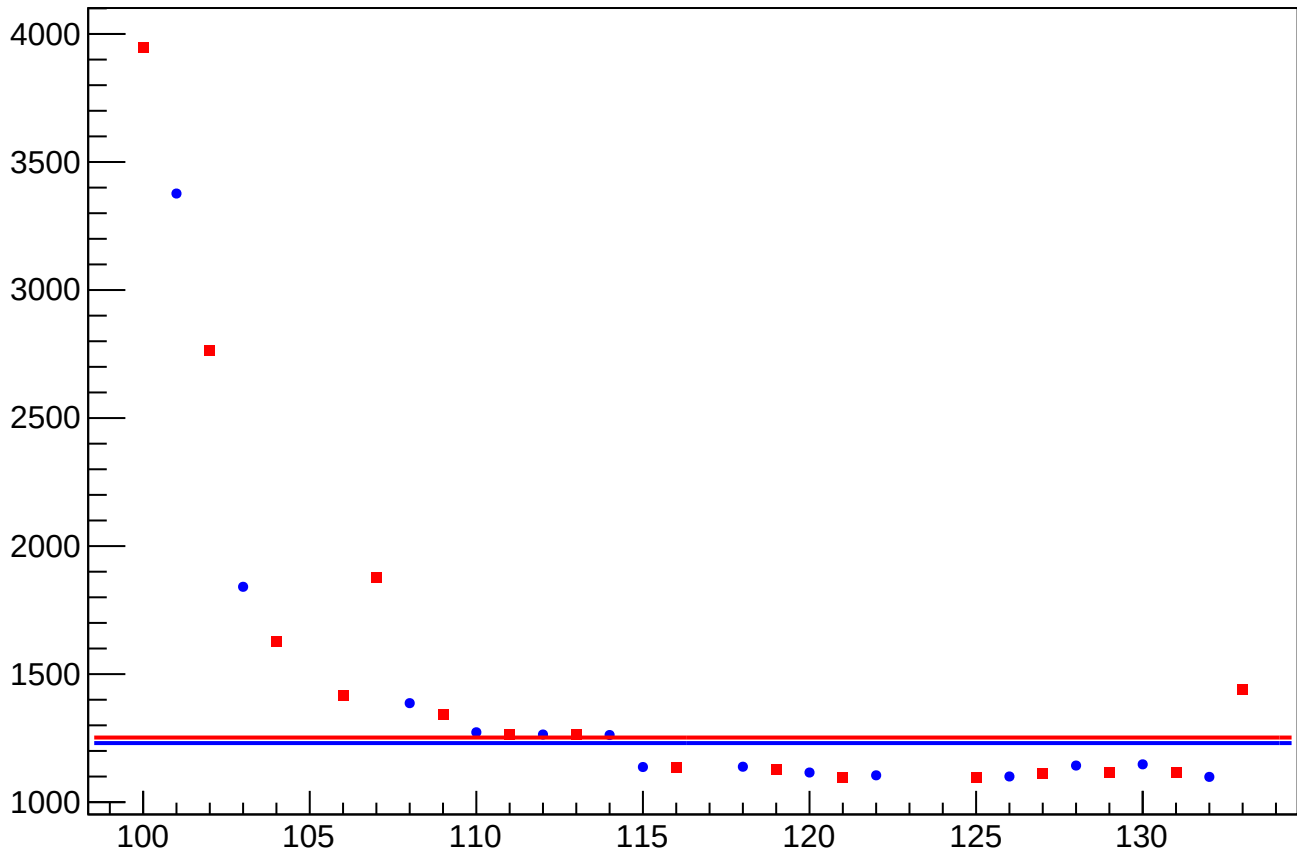
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 103.529+/-362.877  $\chi^2/\text{NDF}$ : 23.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug



Right In: 1230.686+/-0.368  $\chi^2/\text{NDF}$ : 732061.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1252.344+/-0.358  $\chi^2/\text{NDF}$ : 605169.8/15

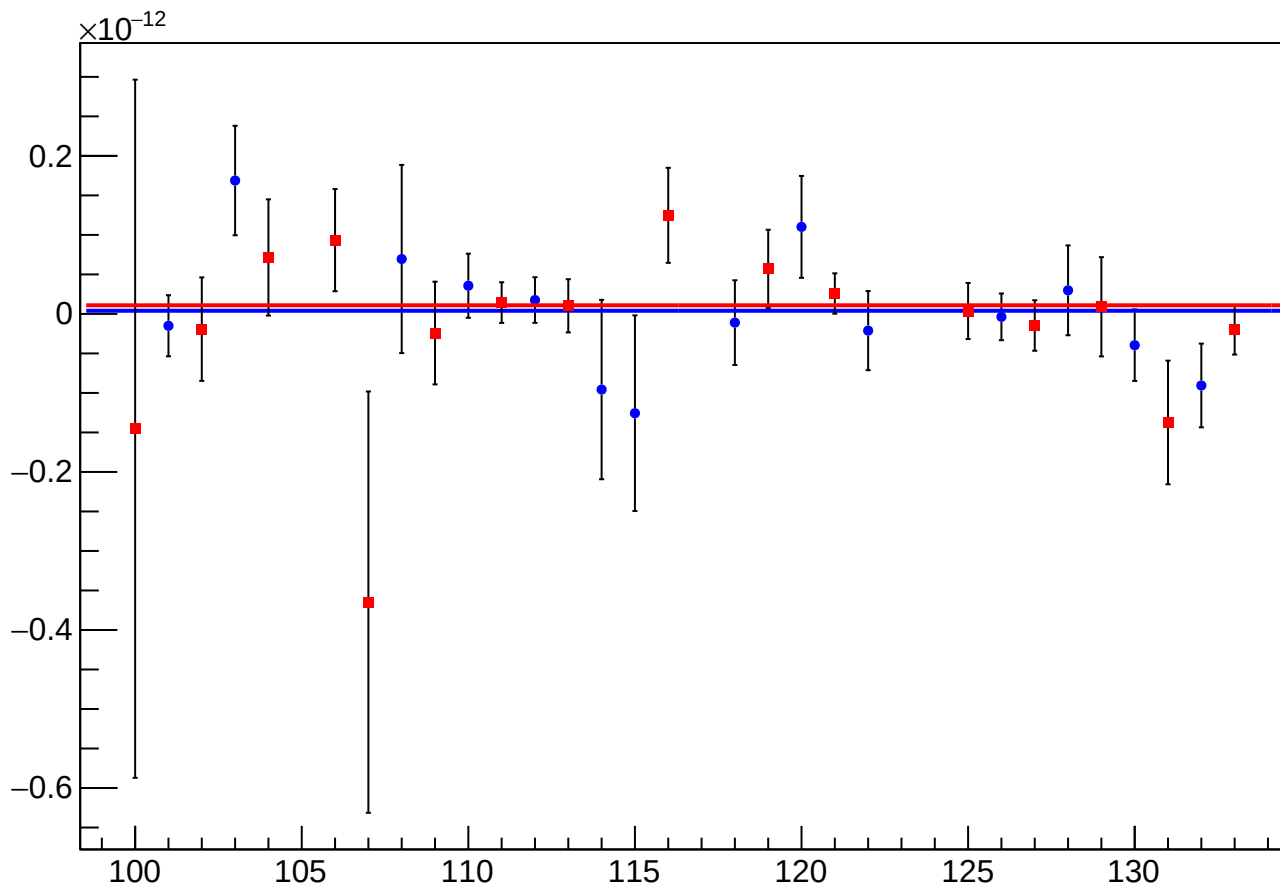
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1241.822+/-0.257  $\chi^2/\text{NDF}$ : 1339011.2/29

- 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: 16.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.0/15

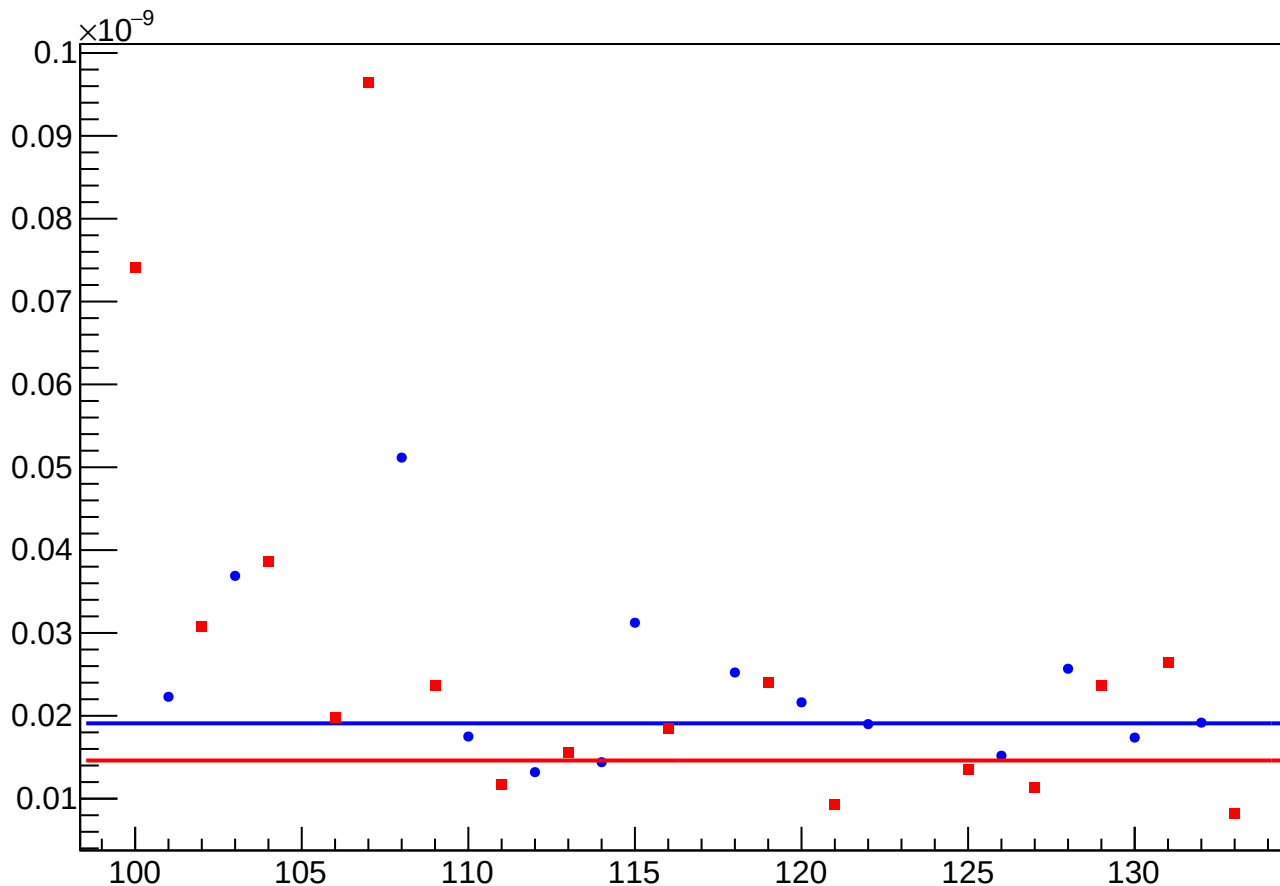
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 31.5/29

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 493822.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 998241.7/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

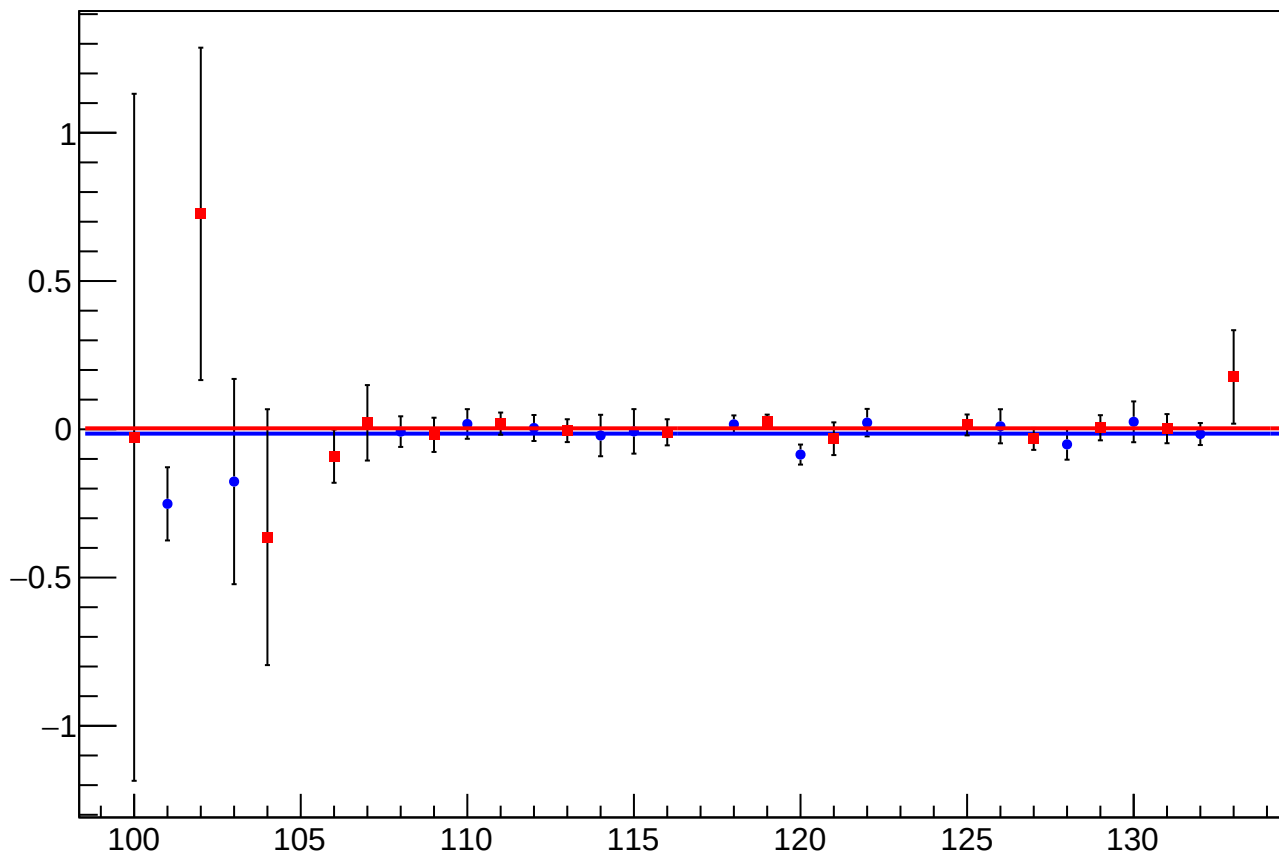
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1637707.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_us\_dd\_atlr\_dd\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.015 \pm 0.013$   $\chi^2/\text{NDF}$ : 11.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.003 \pm 0.012$   $\chi^2/\text{NDF}$ : 7.5/15

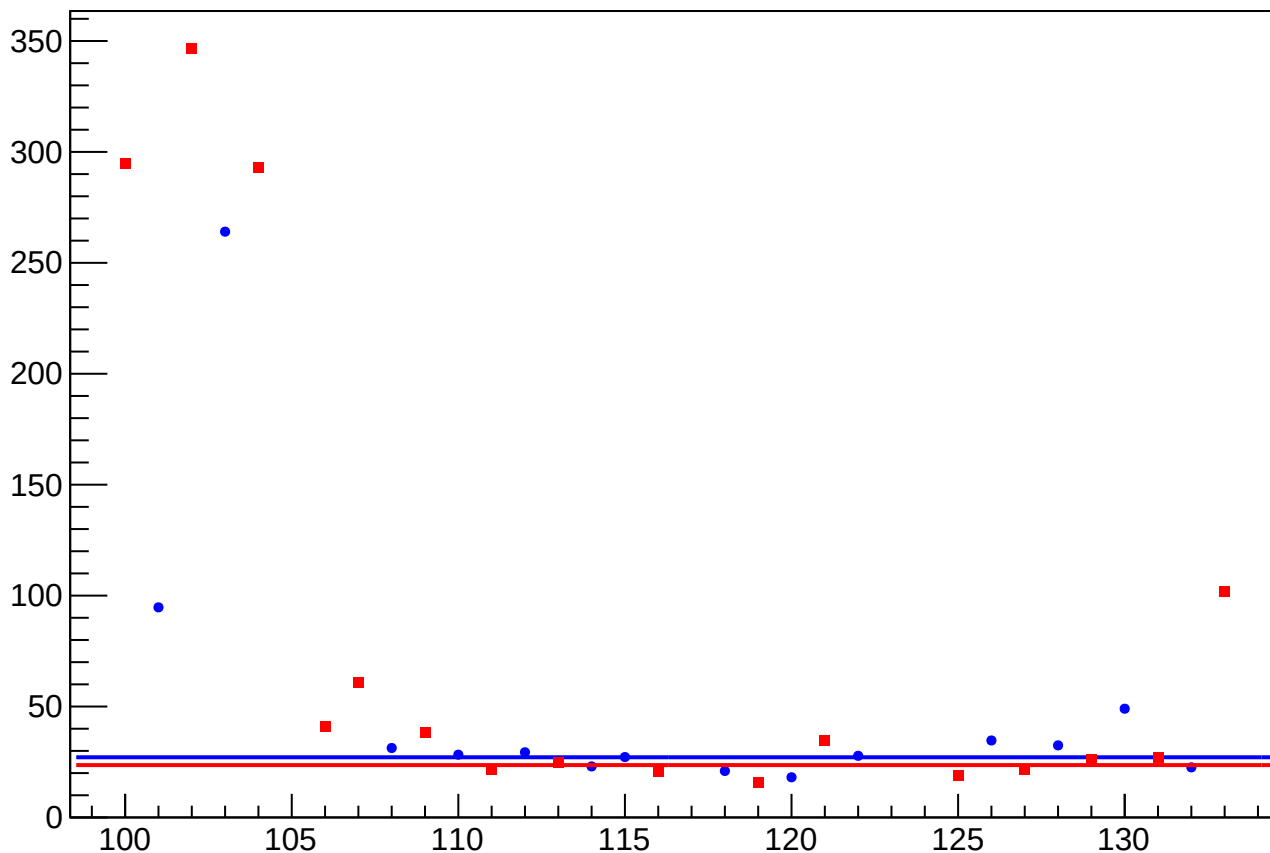
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.005 \pm 0.009$   $\chi^2/\text{NDF}$ : 20.2/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_atlr\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 27.126+/-0.009  $\chi^2/\text{NDF}$ : 2078893.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23.604+/-0.008  $\chi^2/\text{NDF}$ : 2802586.7/15

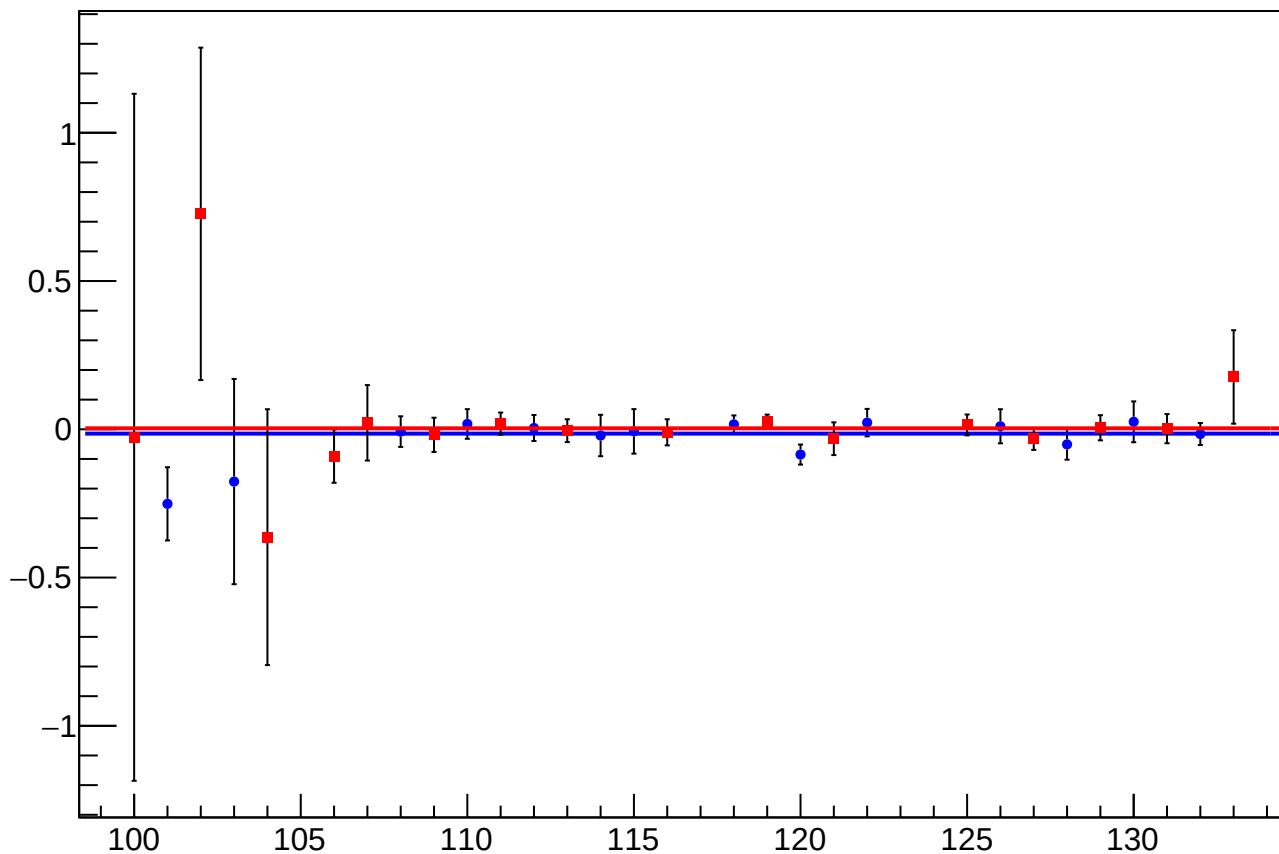
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.200+/-0.006  $\chi^2/\text{NDF}$ : 4960359.8/29

- 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:  $-0.015 \pm 0.013$   $\chi^2/\text{NDF}$ : 11.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.003 \pm 0.012$   $\chi^2/\text{NDF}$ : 7.5/15

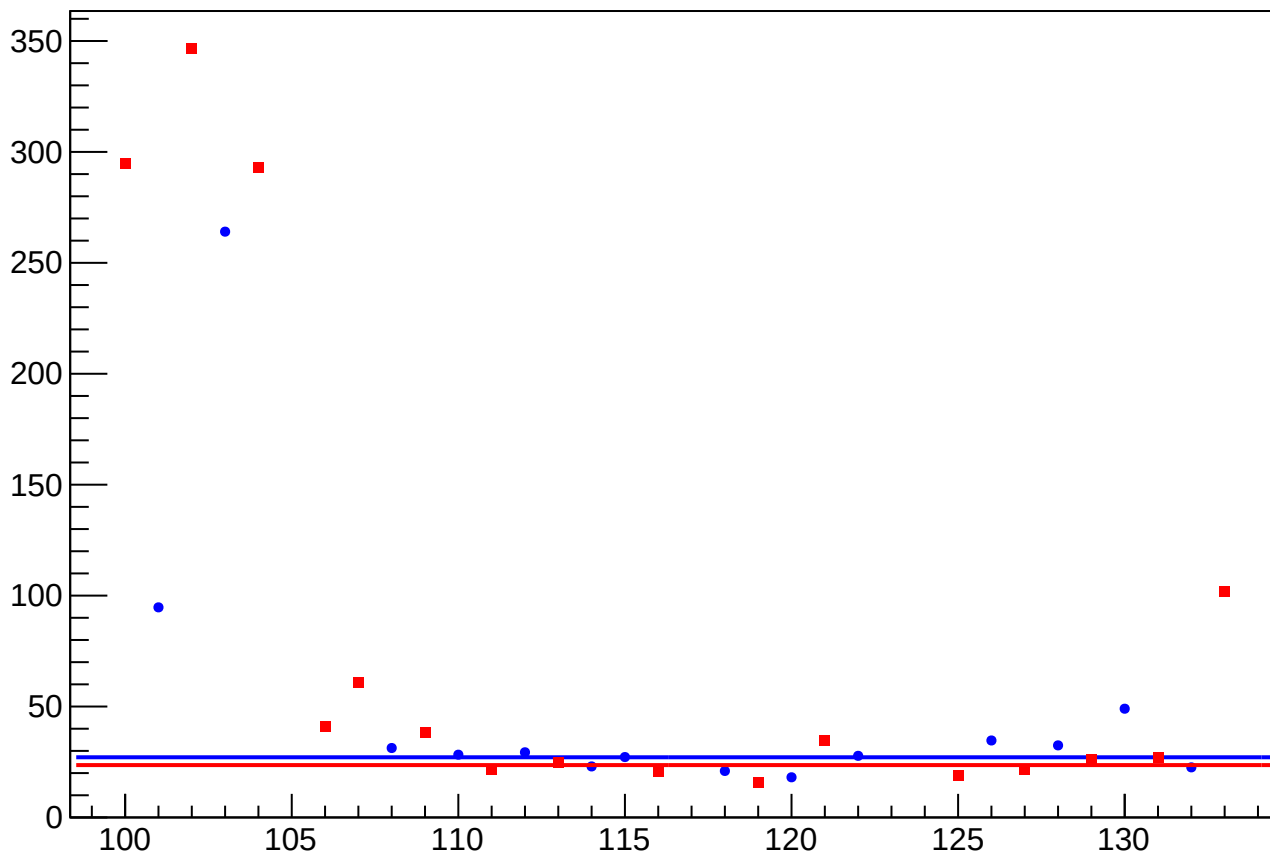
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.005 \pm 0.009$   $\chi^2/\text{NDF}$ : 20.2/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 27.126+/-0.009  $\chi^2/\text{NDF}$ : 2078893.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23.604+/-0.008  $\chi^2/\text{NDF}$ : 2802586.7/15

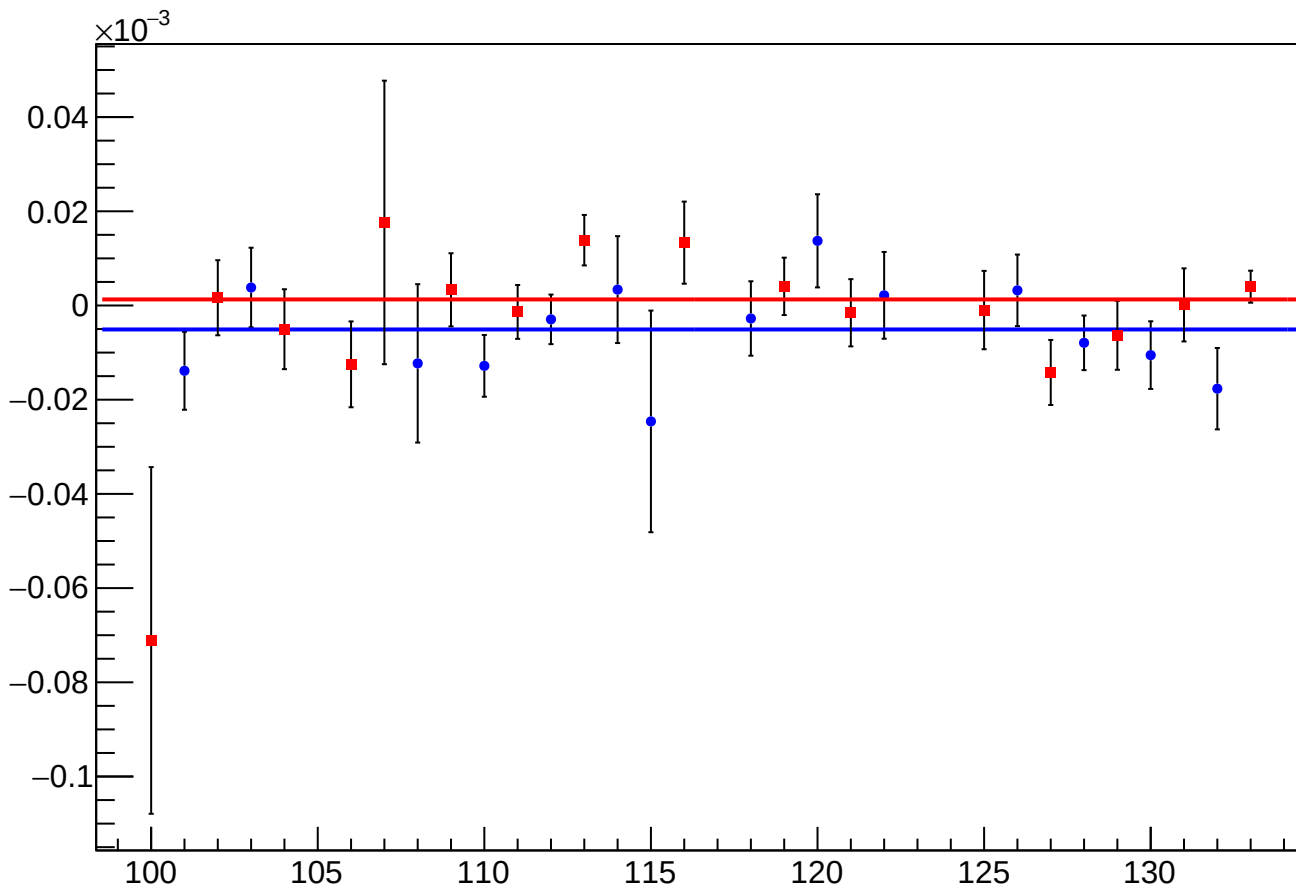
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.200+/-0.006  $\chi^2/\text{NDF}$ : 4960359.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 21.9/15

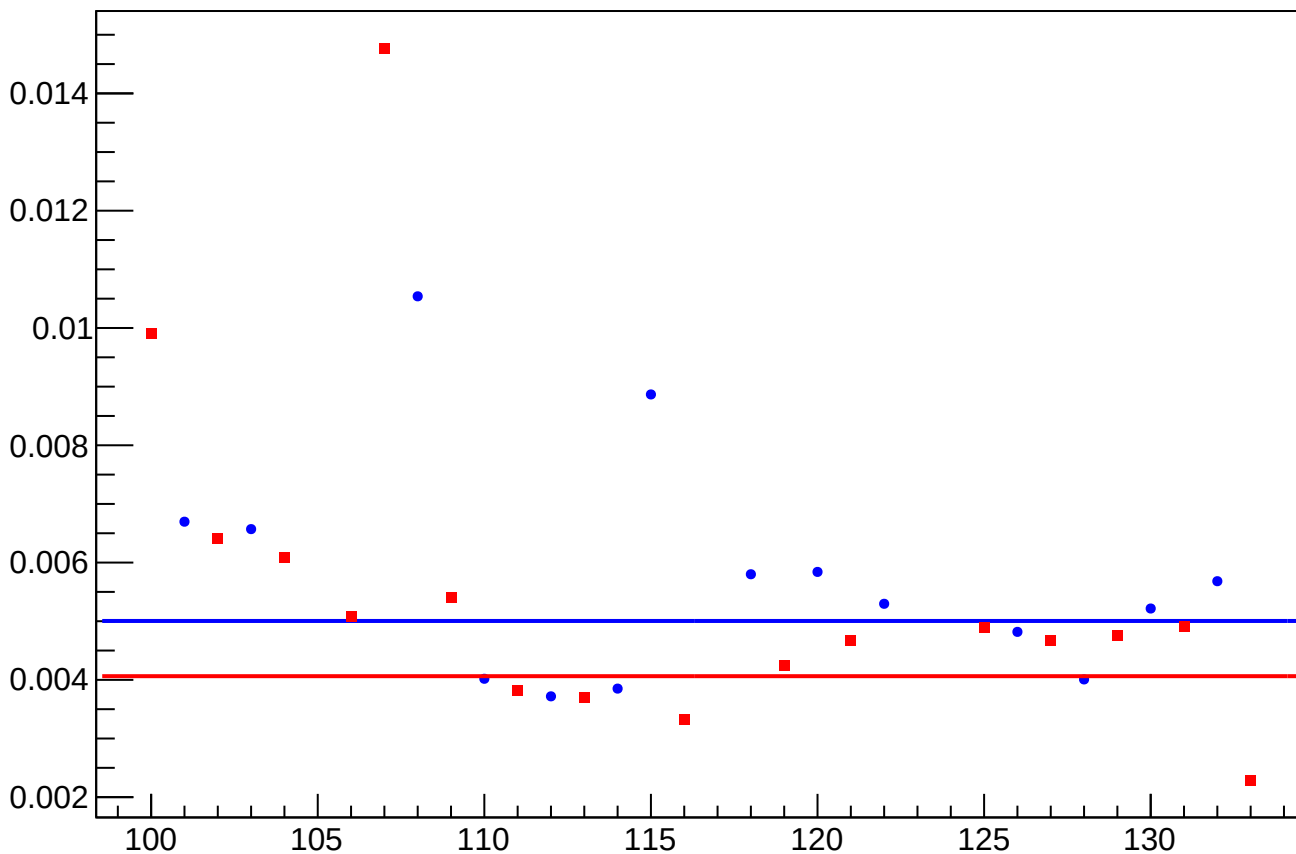
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 41.0/29

- sign 0.000+/-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 $\pm$ 0.000  $\chi^2$ /NDF: 719489.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 1347218.6/15

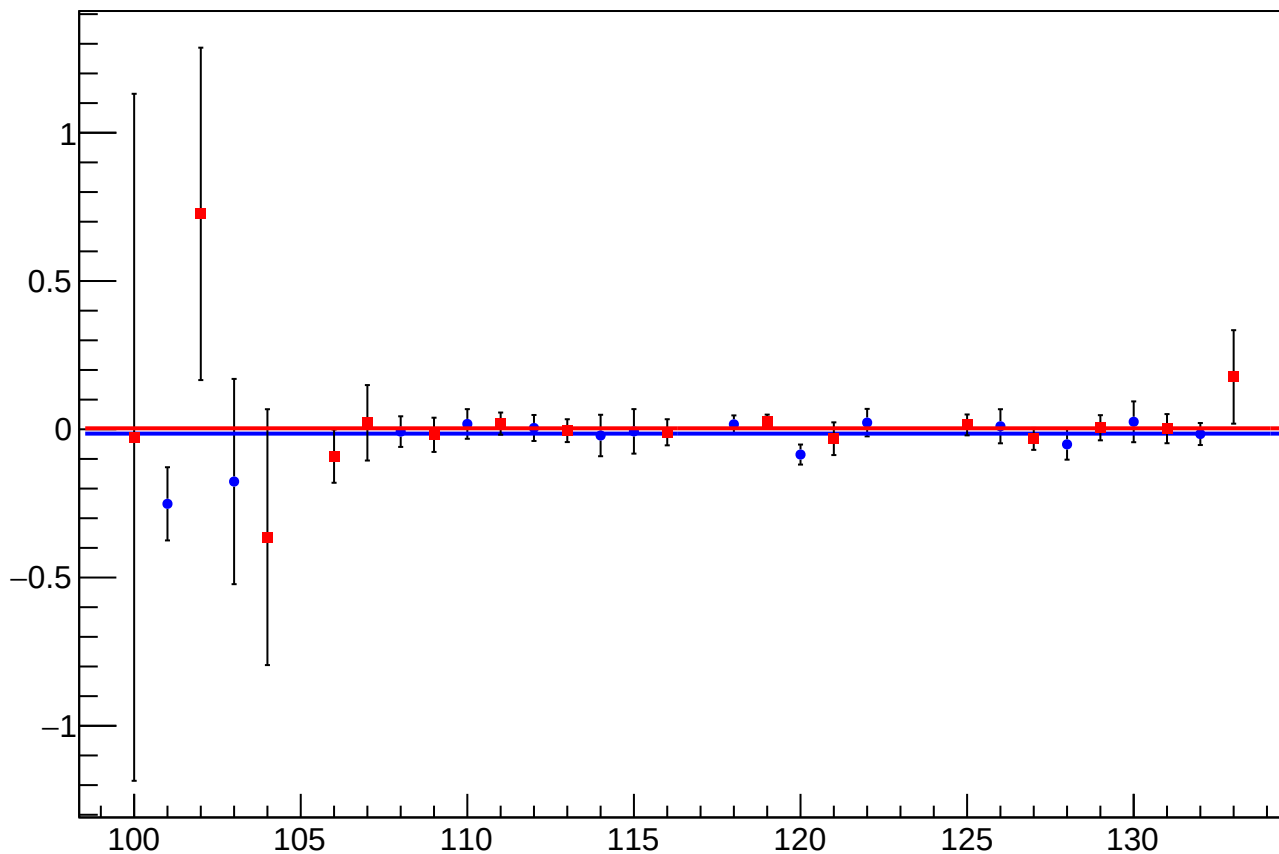
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 2303611.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.015 \pm 0.013$   $\chi^2/\text{NDF}$ : 11.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.003 \pm 0.012$   $\chi^2/\text{NDF}$ : 7.5/15

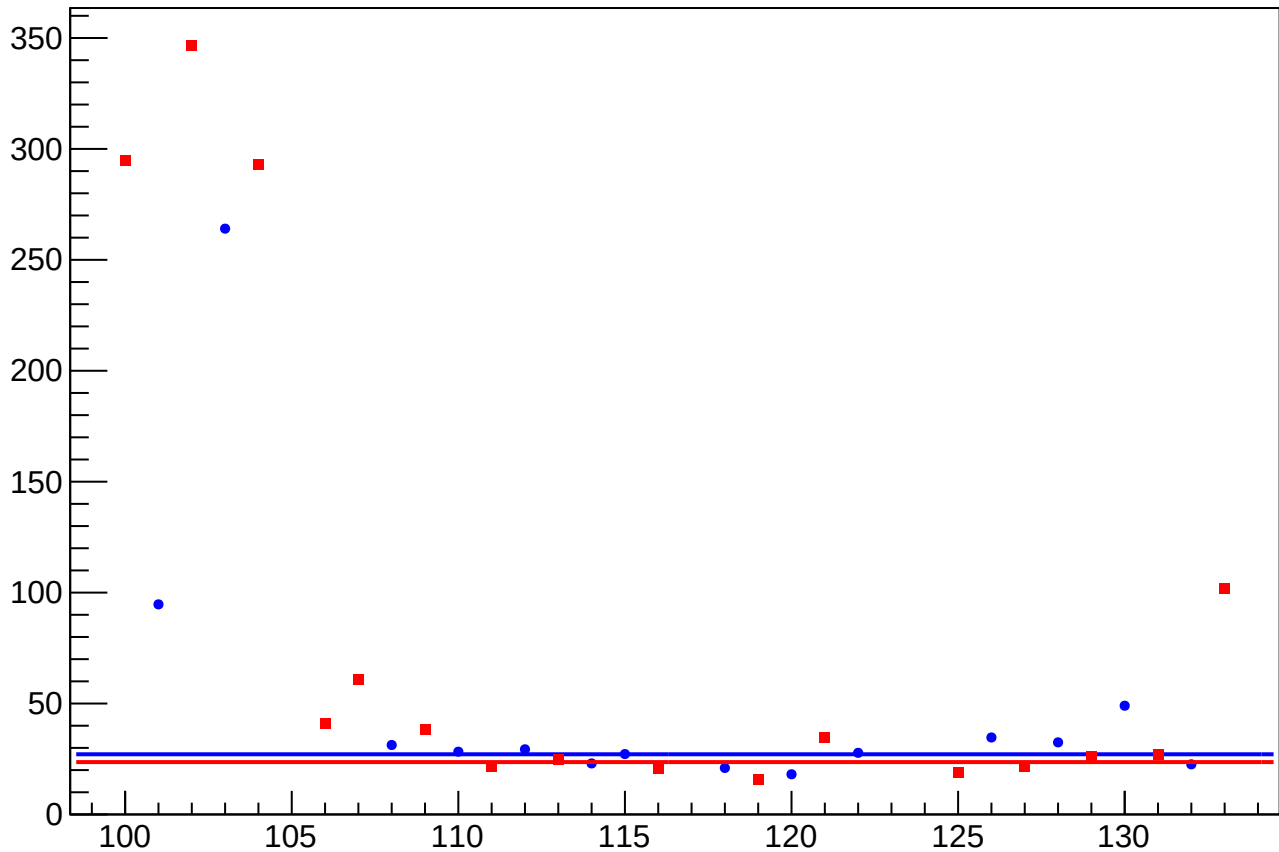
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.005 \pm 0.009$   $\chi^2/\text{NDF}$ : 20.2/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 27.126+/-0.009  $\chi^2/\text{NDF}$ : 2078897.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23.602+/-0.008  $\chi^2/\text{NDF}$ : 2802808.2/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

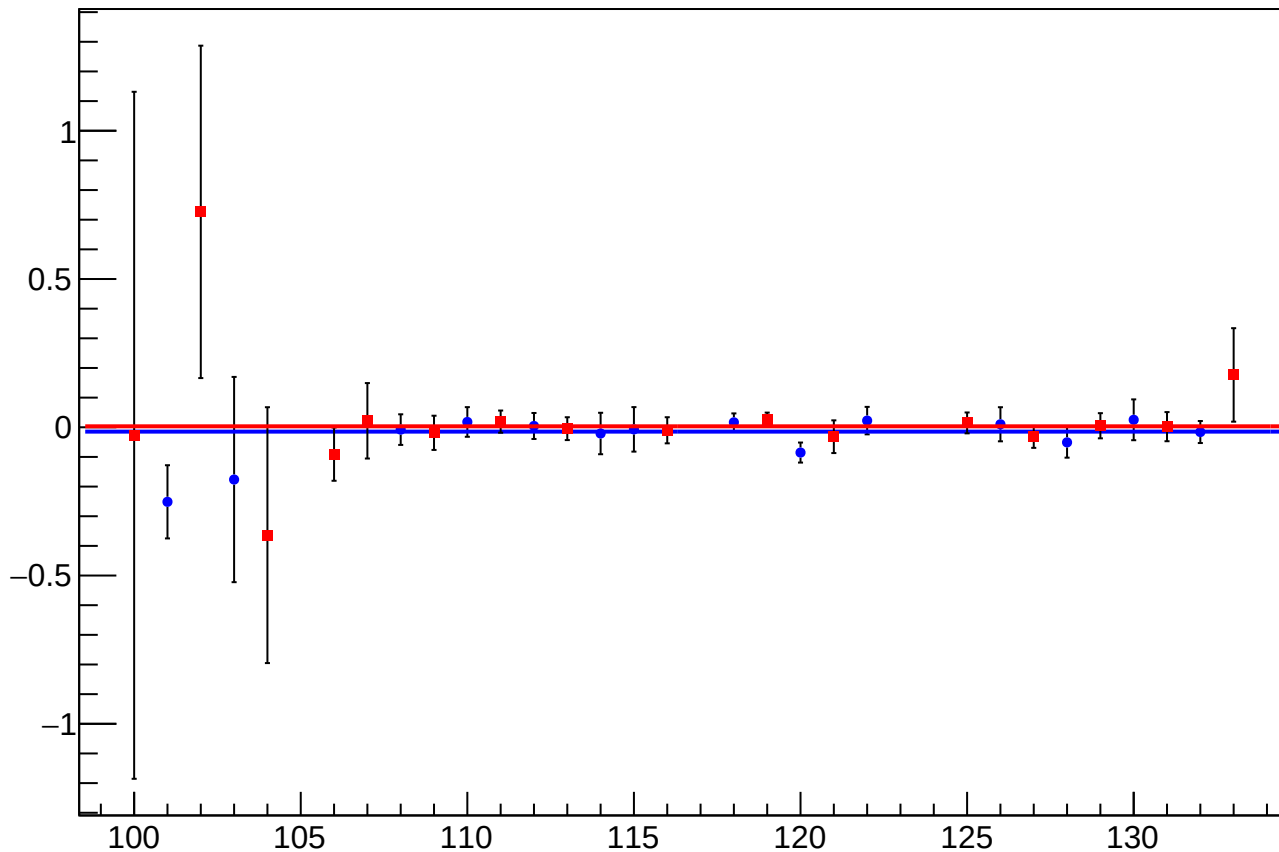
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.199+/-0.006  $\chi^2/\text{NDF}$ : 4960659.6/29

- 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:  $-0.015 \pm 0.013$   $\chi^2/\text{NDF}$ : 11.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.003 \pm 0.012$   $\chi^2/\text{NDF}$ : 7.5/15

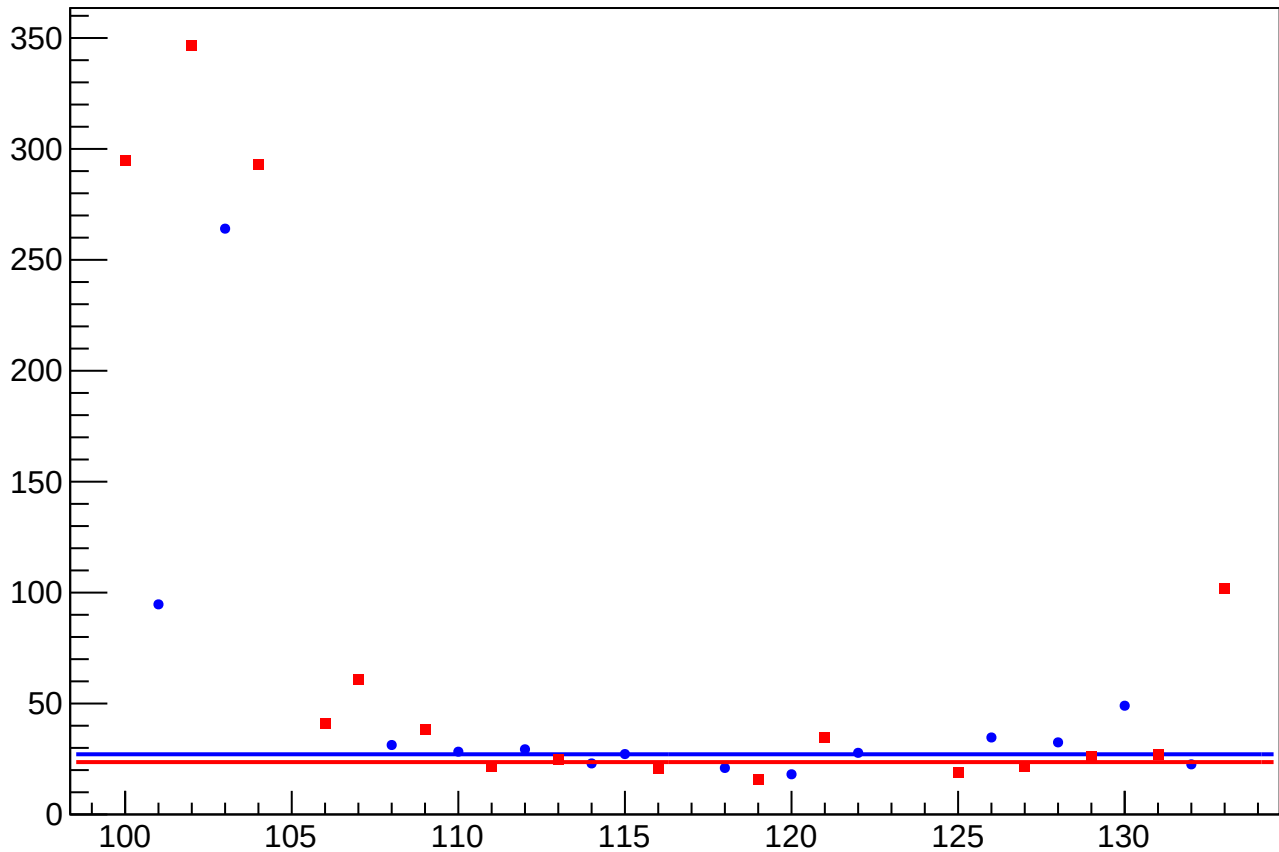
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.005 \pm 0.009$   $\chi^2/\text{NDF}$ : 20.2/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 27.126+/-0.009  $\chi^2/\text{NDF}$ : 2078897.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23.602+/-0.008  $\chi^2/\text{NDF}$ : 2802808.2/15

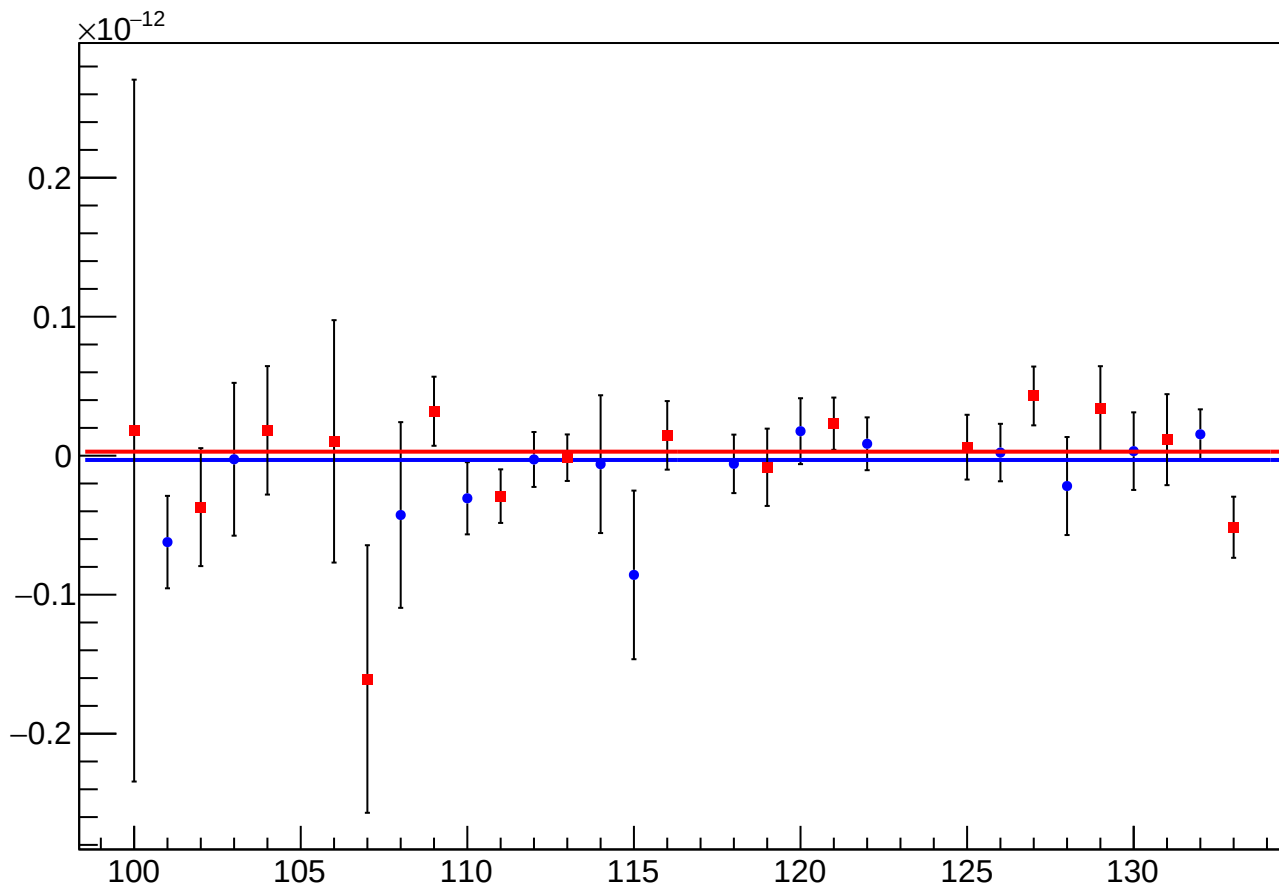
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.199+/-0.006  $\chi^2/\text{NDF}$ : 4960659.6/29

- 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  $\chi^2$ /NDF: 9.1/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 20.5/15

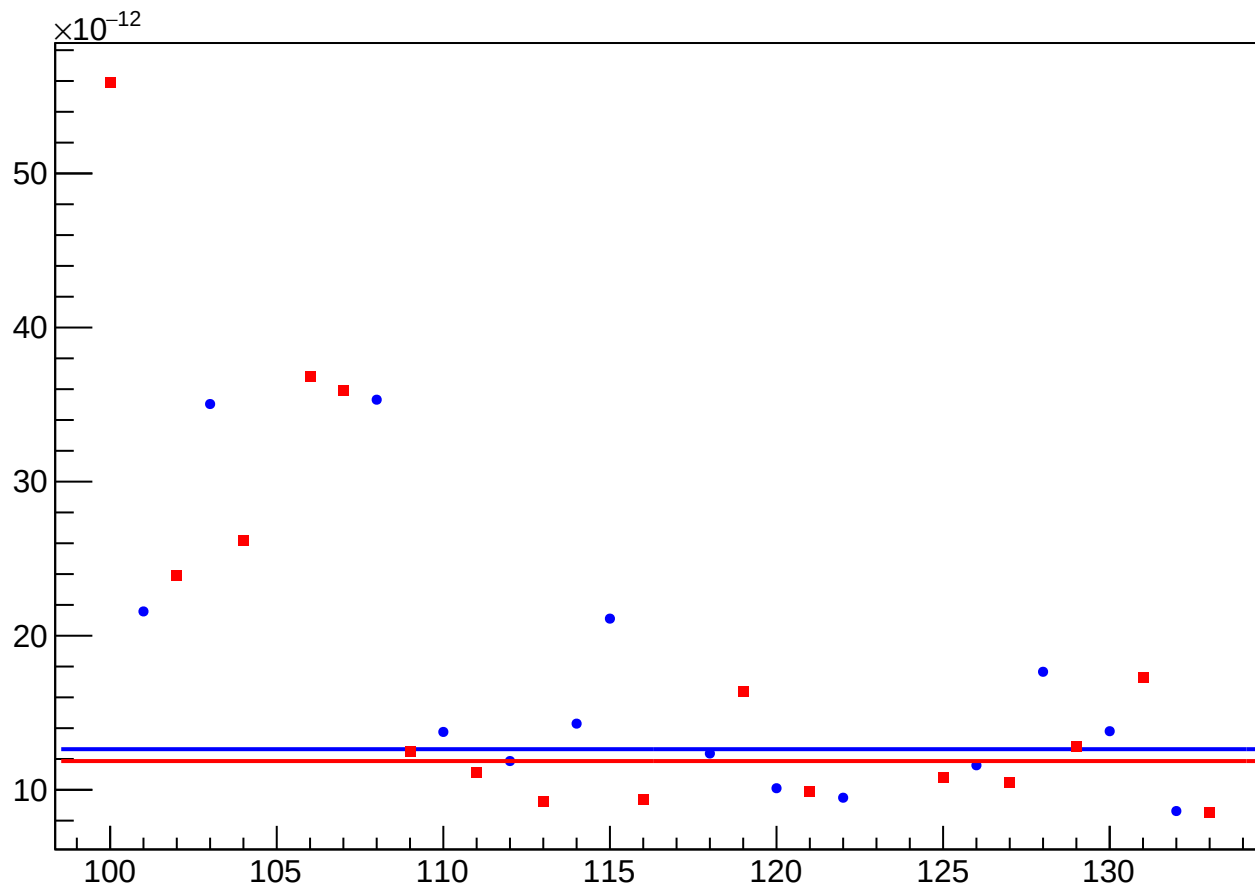
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 30.0/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 982704.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 966269.8/15

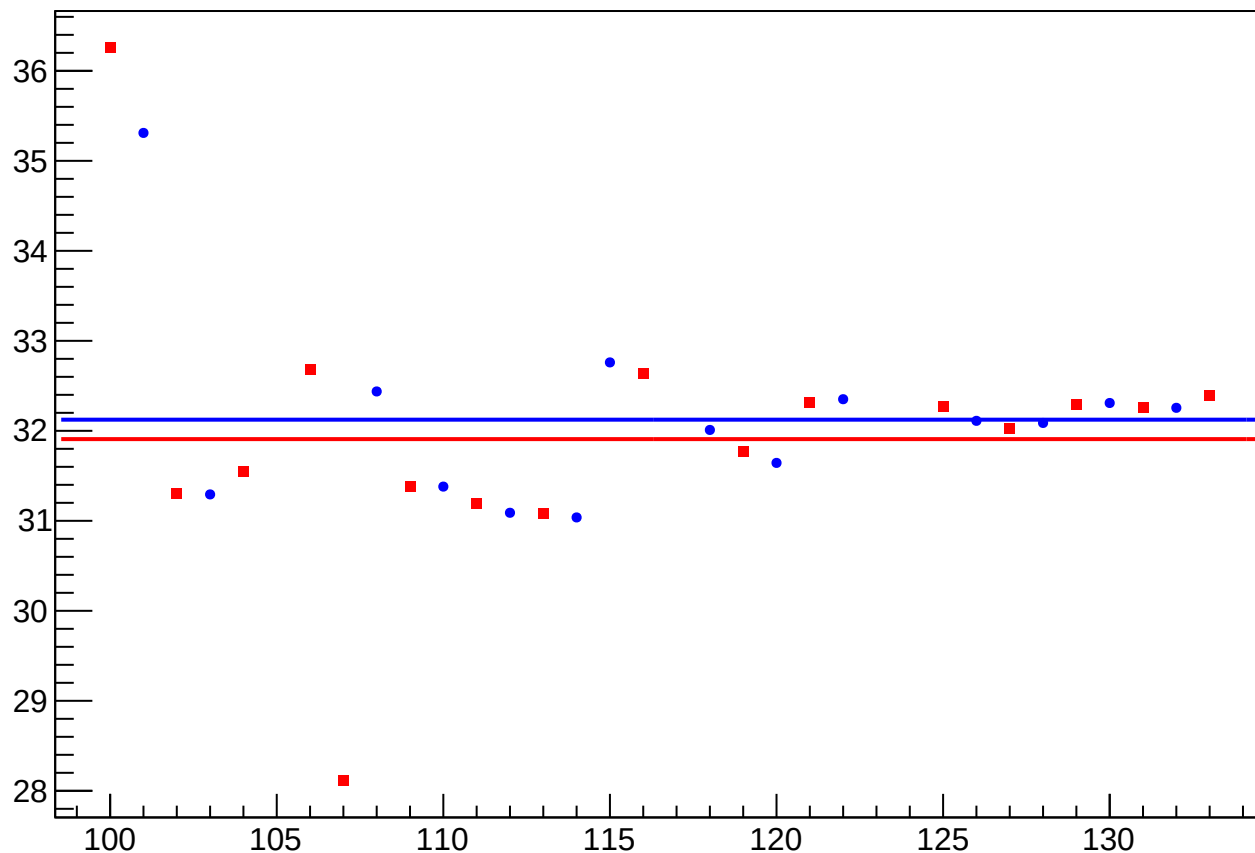
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1961900.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_usl\_mean vs Slug



Right In: 32.124+/-0.000  $\chi^2/\text{NDF}$ : 837809312.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.908+/-0.000  $\chi^2/\text{NDF}$ : 464968778.9/15

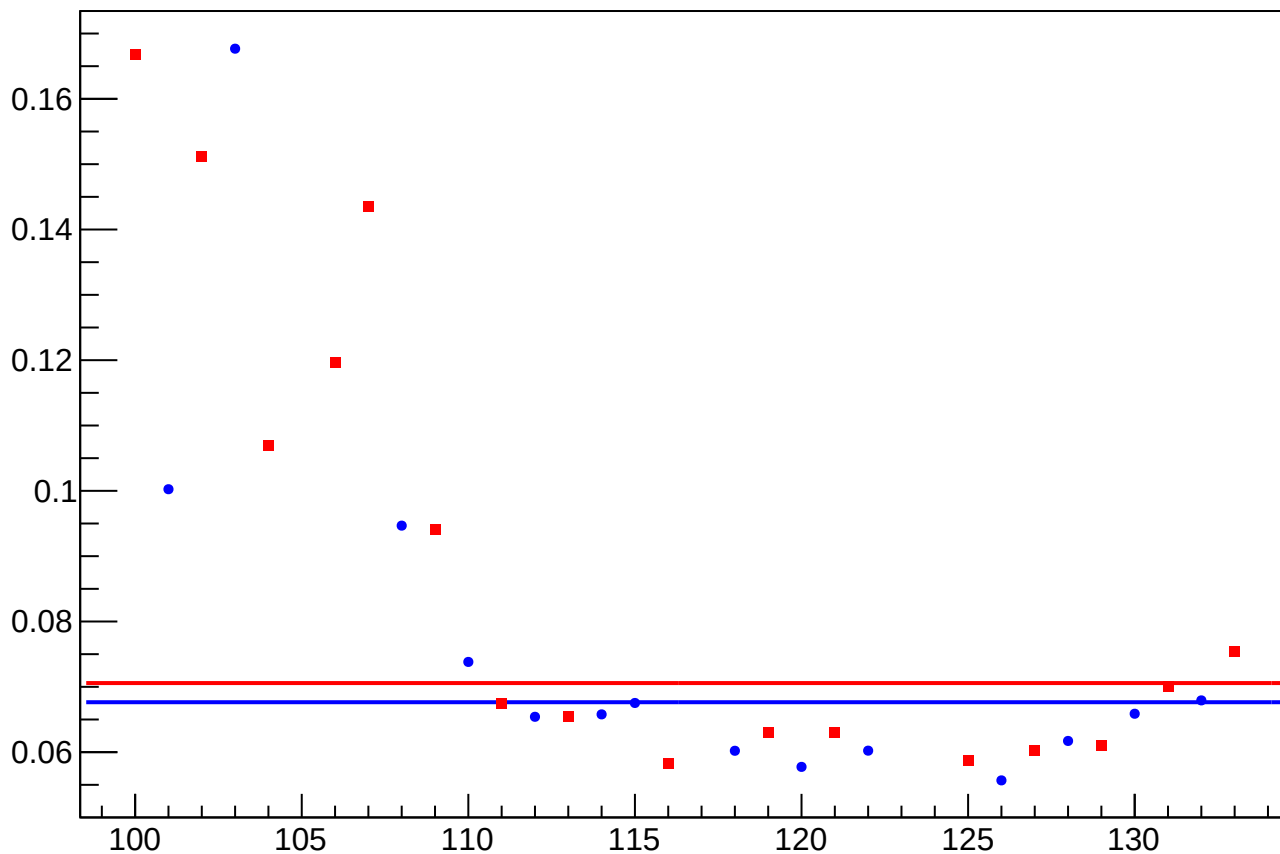
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.016+/-0.000  $\chi^2/\text{NDF}$ : 1328875830.5/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_usl\_rms vs Slug



Right In: 0.068+/-0.000  $\chi^2/\text{NDF}$ : 692609.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.071+/-0.000  $\chi^2/\text{NDF}$ : 866668.7/15

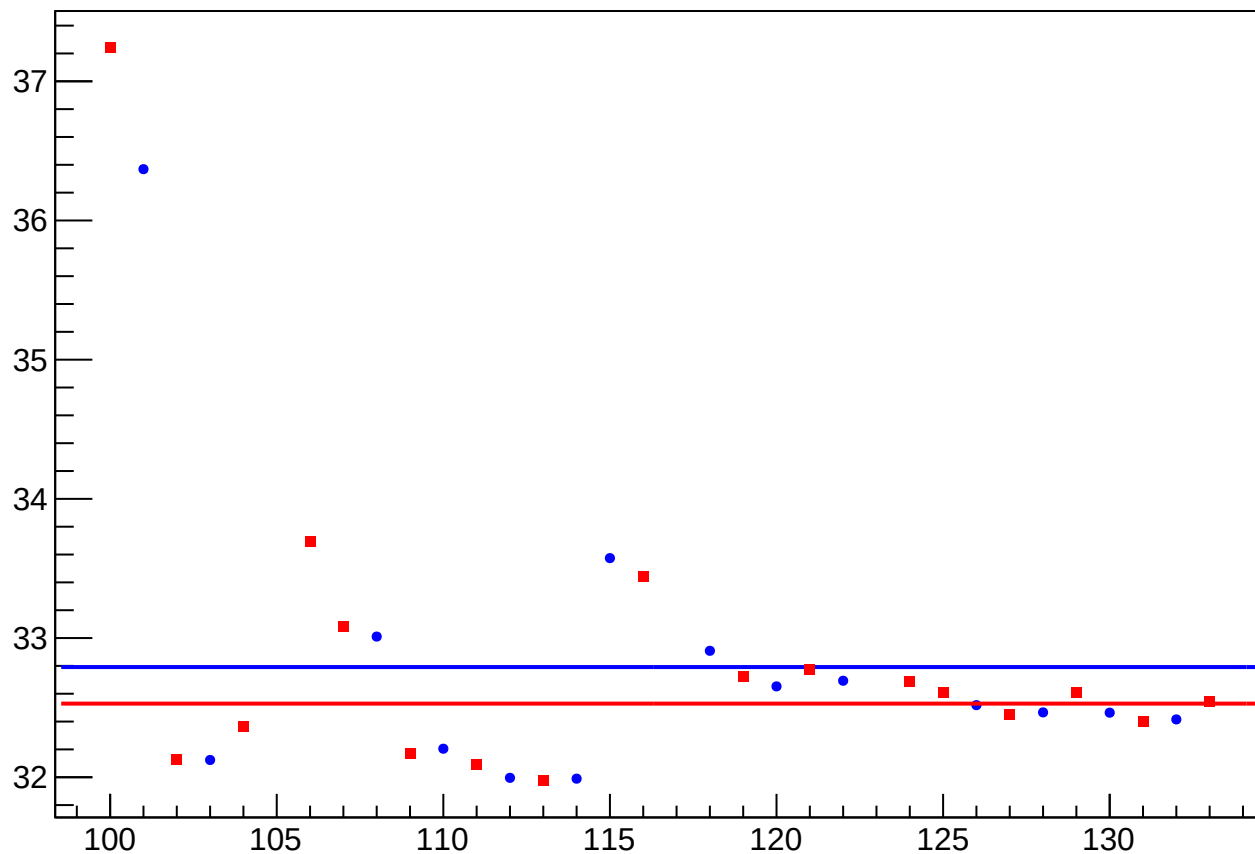
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.069+/-0.000  $\chi^2/\text{NDF}$ : 1568892.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_usr\_mean vs Slug



Right In: 32.792+/-0.000  $\chi^2/\text{NDF}$ : 668158234.3/13

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

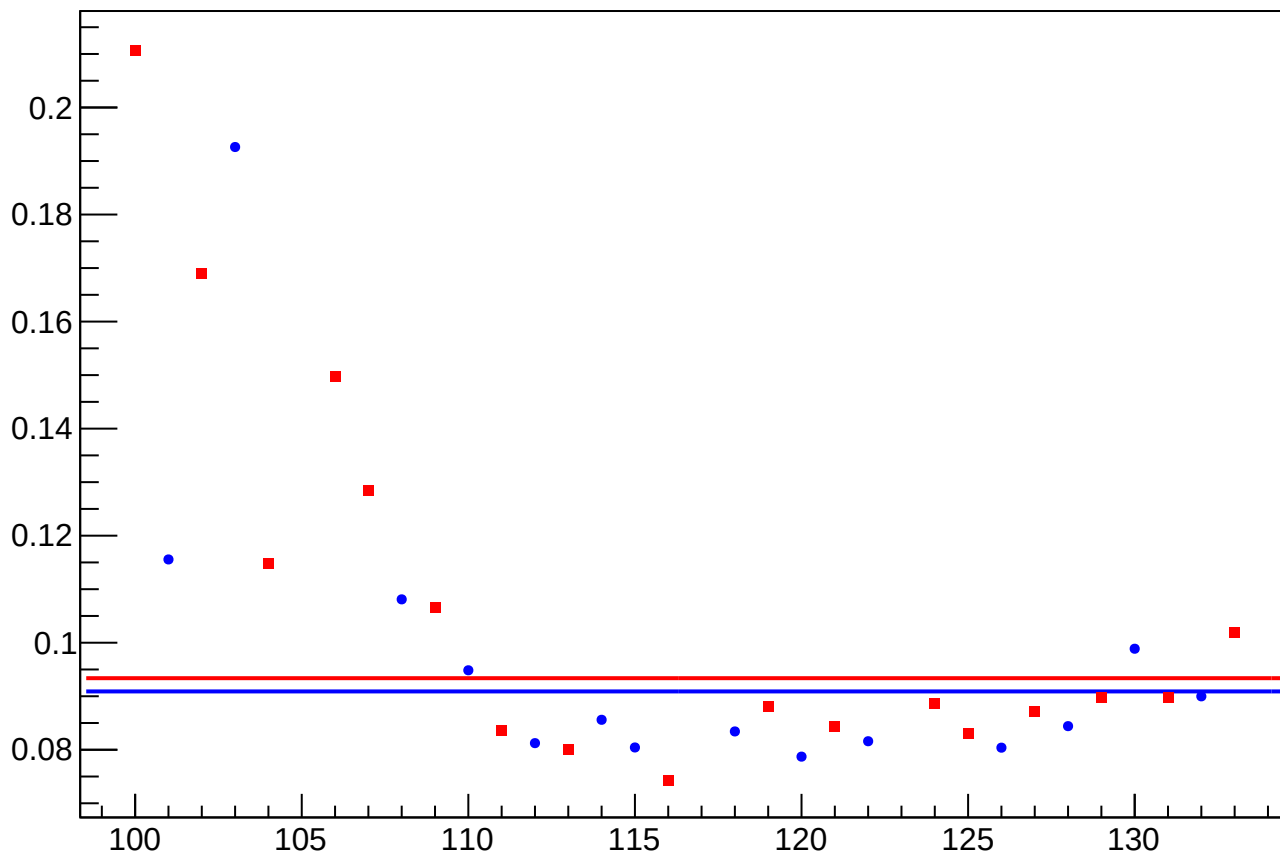
Right Out: 32.529+/-0.000  $\chi^2/\text{NDF}$ : 140698111.0/16

All: 32.656+/-0.000  $\chi^2/\text{NDF}$ : 831161891.0/30

- 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\_usr\_rms vs Slug



Right In: 0.091+/-0.000  $\chi^2/\text{NDF}$ : 473258.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.093+/-0.000  $\chi^2/\text{NDF}$ : 529701.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

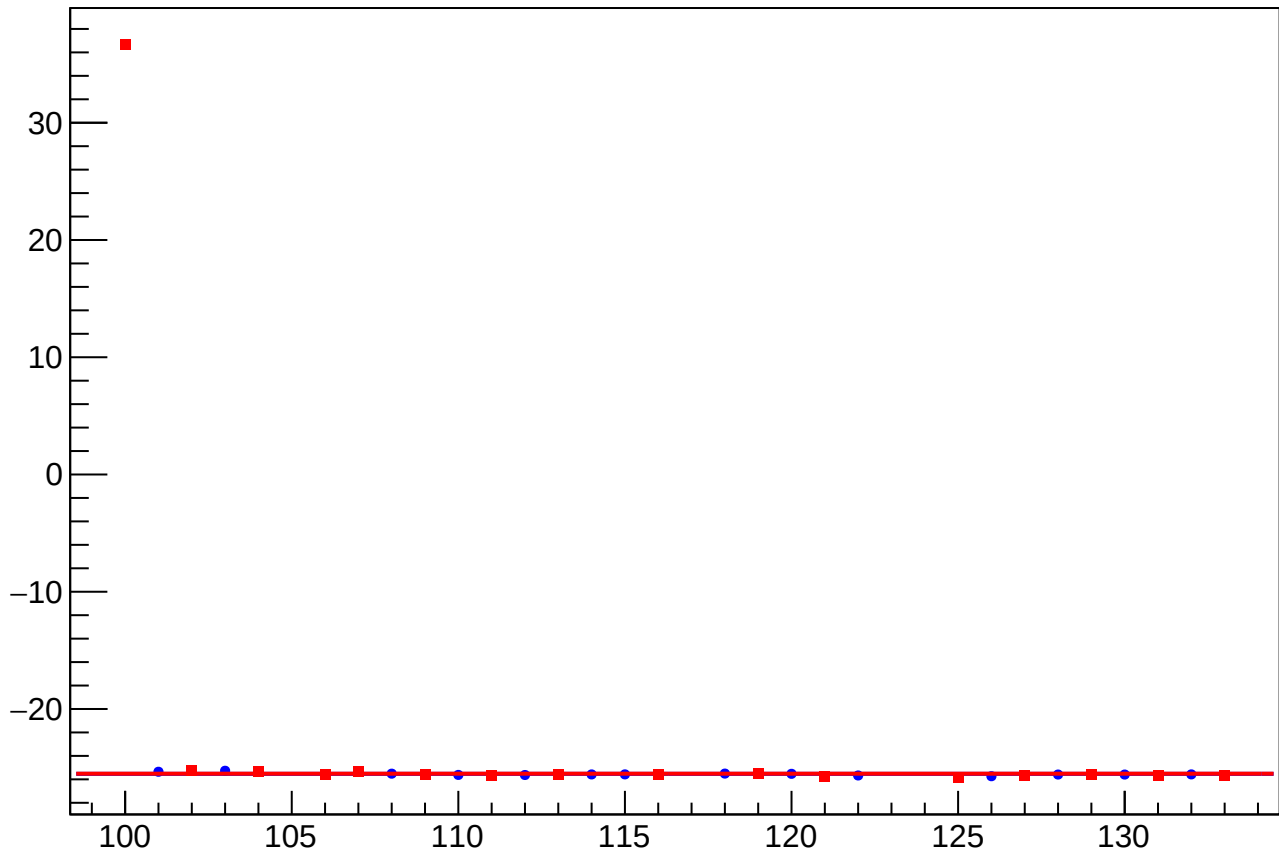
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.092+/-0.000  $\chi^2/\text{NDF}$ : 1006917.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_dsl\_mean vs Slug



Right In: -25.532 $\pm$ 0.000  $\chi^2$ /NDF: 56193797.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -25.518 $\pm$ 0.000  $\chi^2$ /NDF: 8883182451.6/15

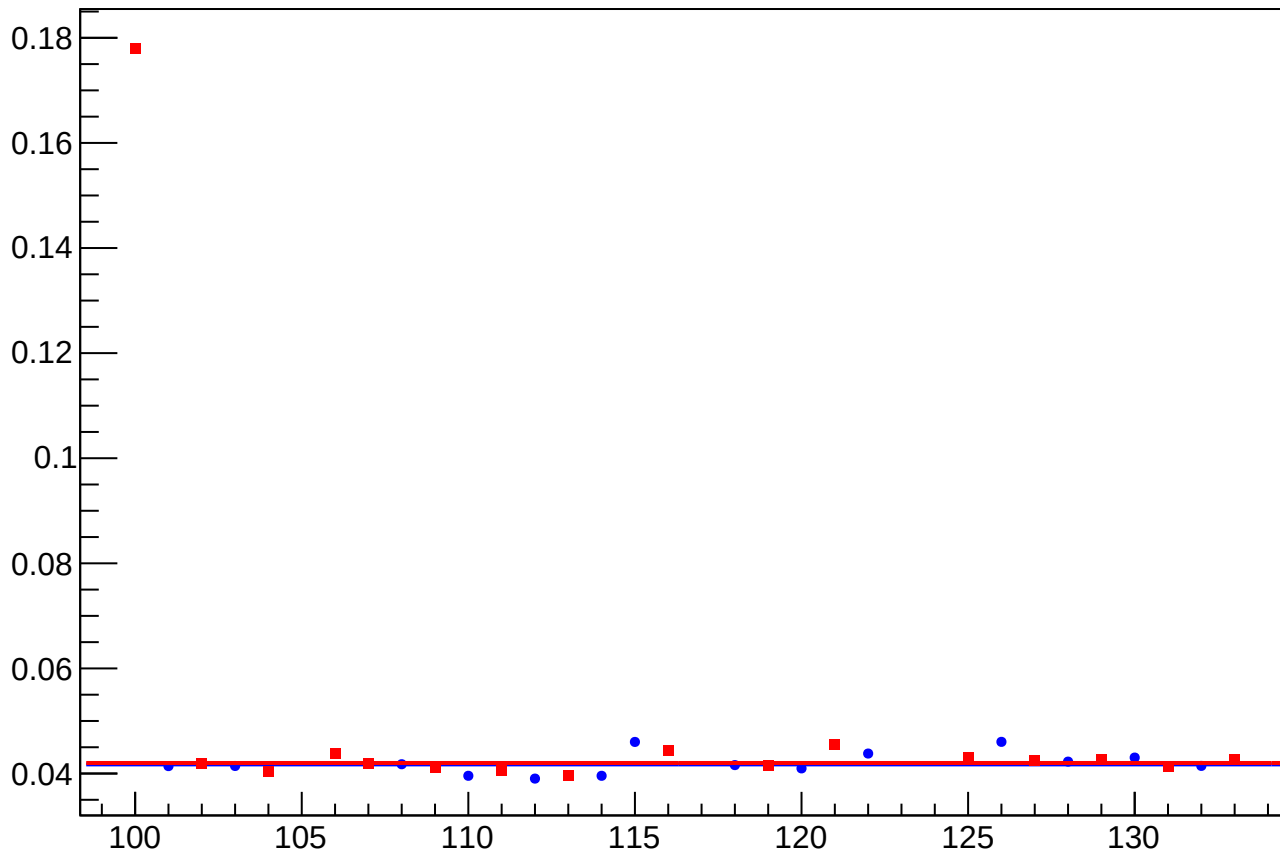
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -25.525 $\pm$ 0.000  $\chi^2$ /NDF: 8939735214.8/16

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_dsl\_rms vs Slug



Right In: 0.042 $\pm$ 0.000  $\chi^2$ /NDF: 20408.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.042 $\pm$ 0.000  $\chi^2$ /NDF: 99286.7/15

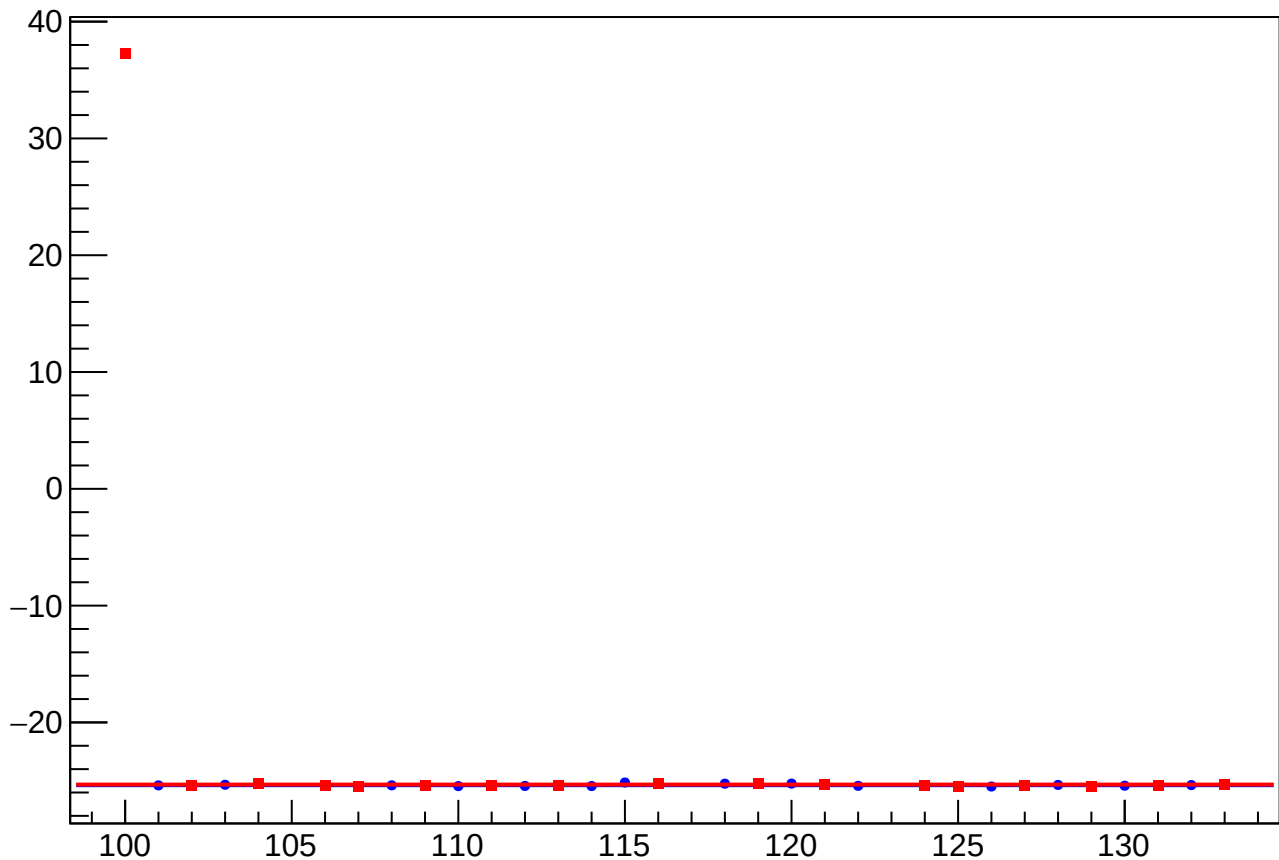
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.042 $\pm$ 0.000  $\chi^2$ /NDF: 119950.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

yield\_dsr\_mean vs Slug



Right In: -25.374 $\pm$ 0.000  $\chi^2$ /NDF: 10472574.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -25.323 $\pm$ 0.000  $\chi^2$ /NDF: 6314720835.1/16

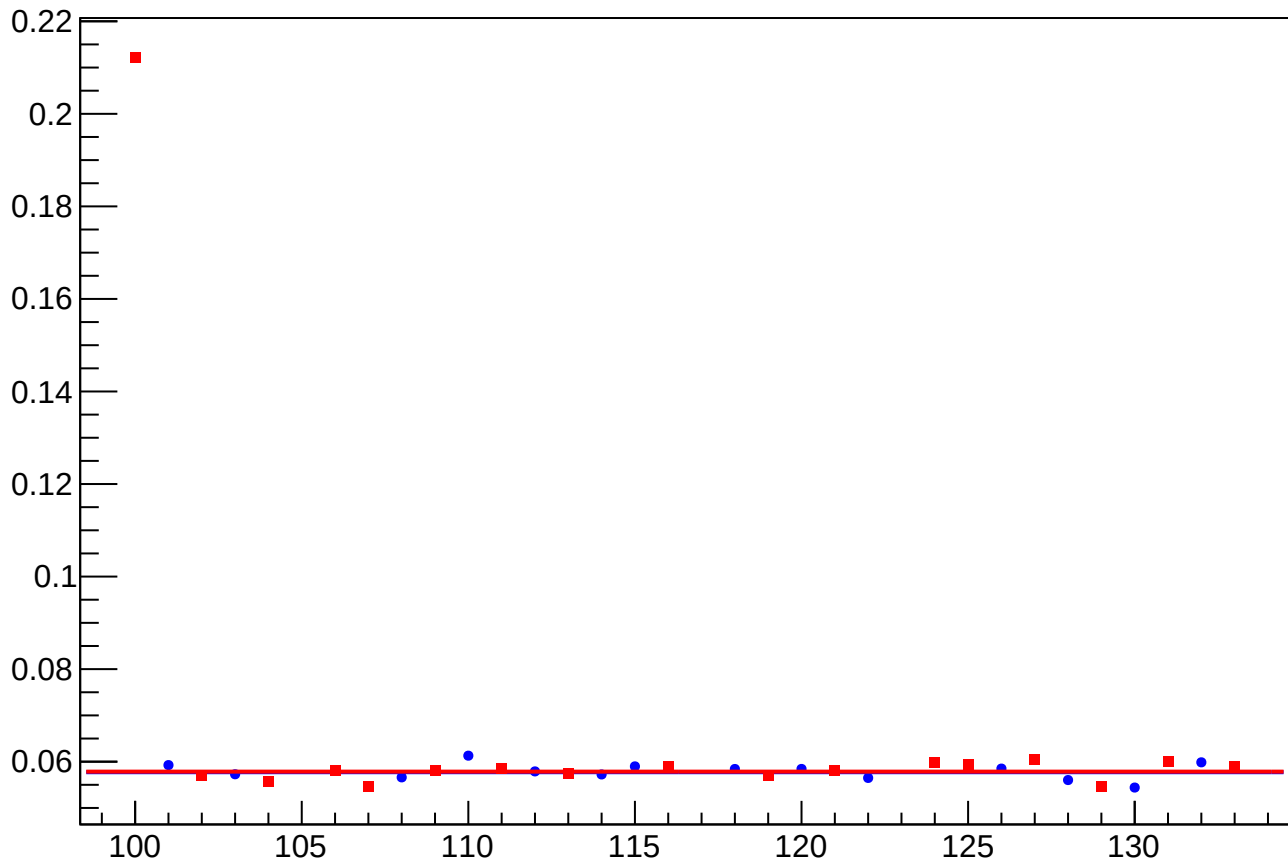
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -25.347 $\pm$ 0.000  $\chi^2$ /NDF: 6327579484.2/13

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_dsr\_rms vs Slug



Right In: 0.058+/-0.000  $\chi^2/\text{NDF}$ : 10320.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.058+/-0.000  $\chi^2/\text{NDF}$ : 87139.1/16

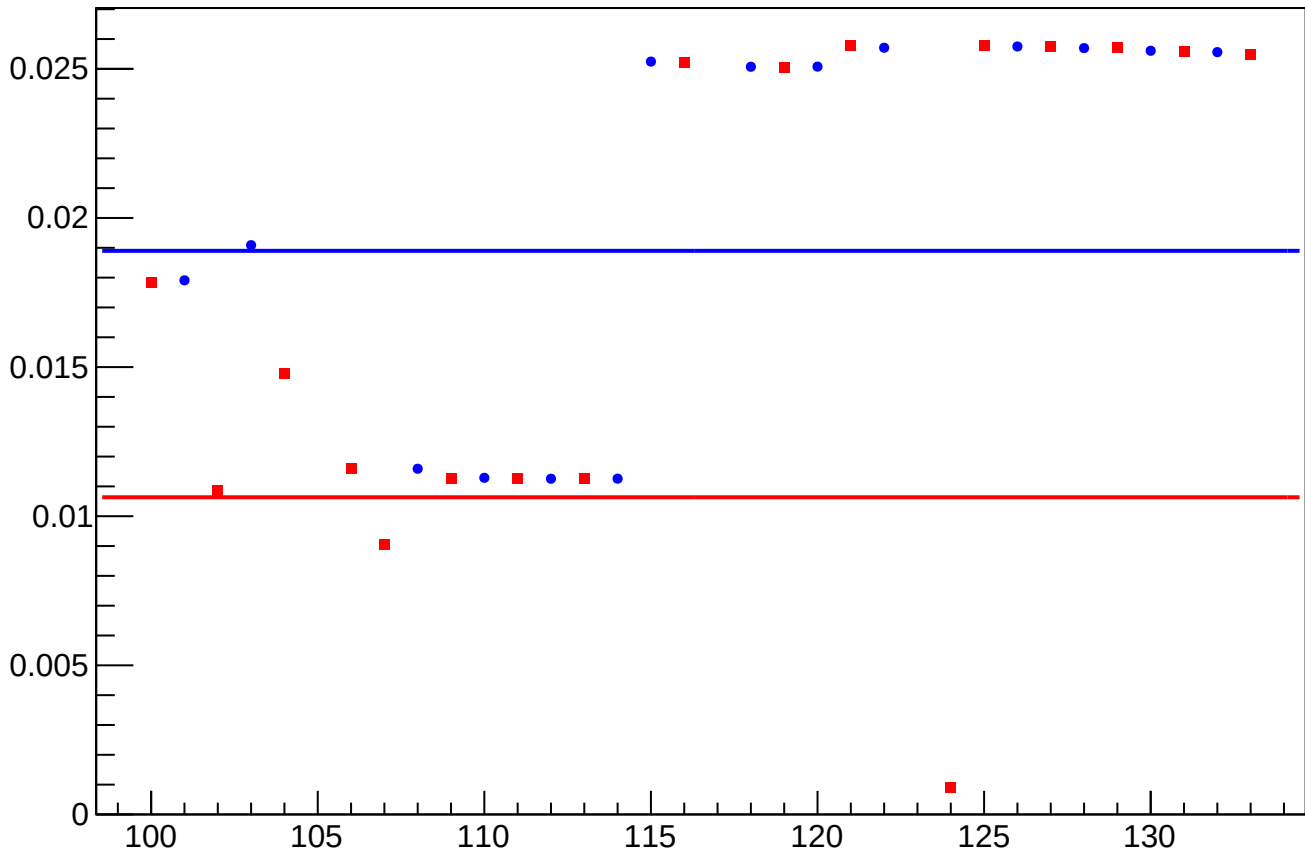
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.058+/-0.000  $\chi^2/\text{NDF}$ : 97489.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_atl1\_mean vs Slug



Right In: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 54076422030.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 226319236424.4/16

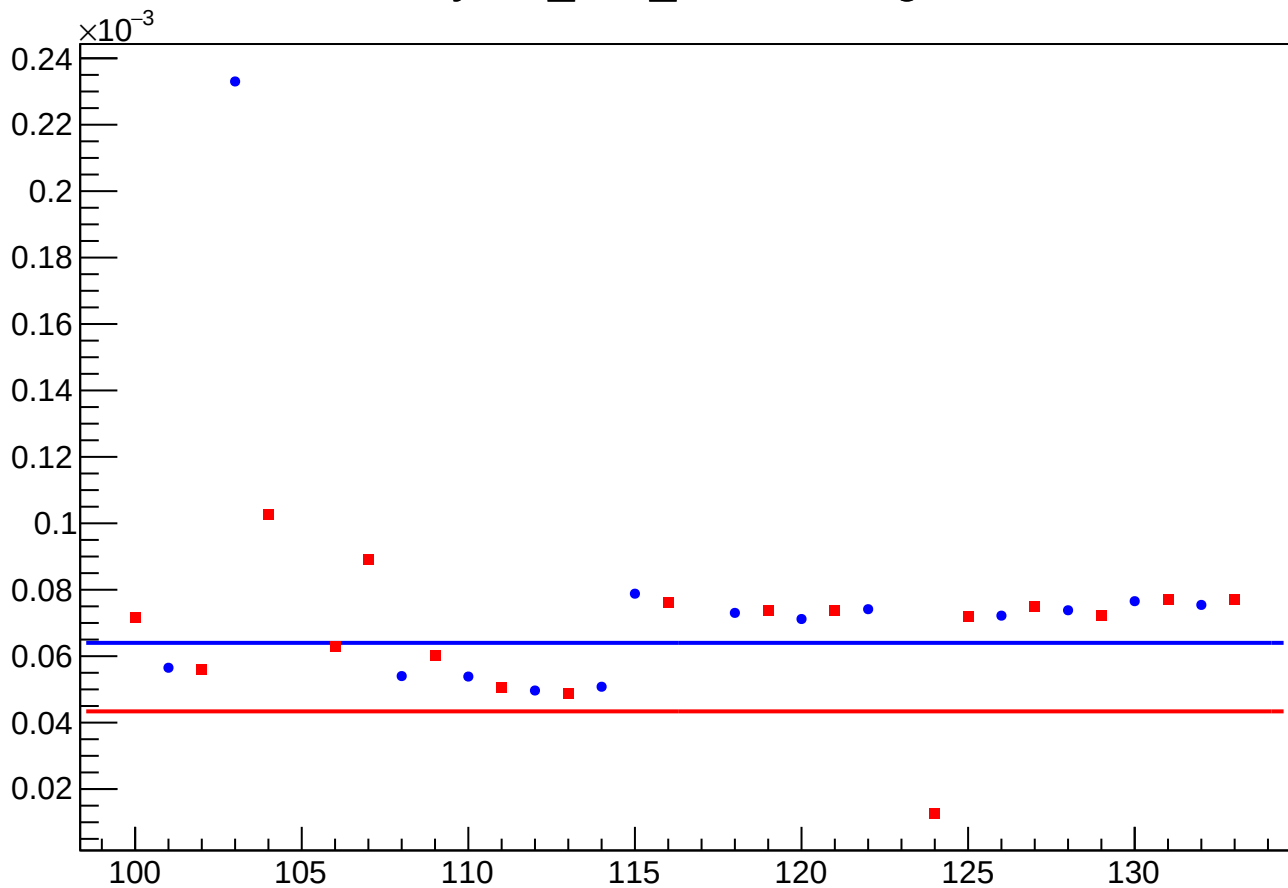
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 337768727331.2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_atl1\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 804603.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3572887.2/16

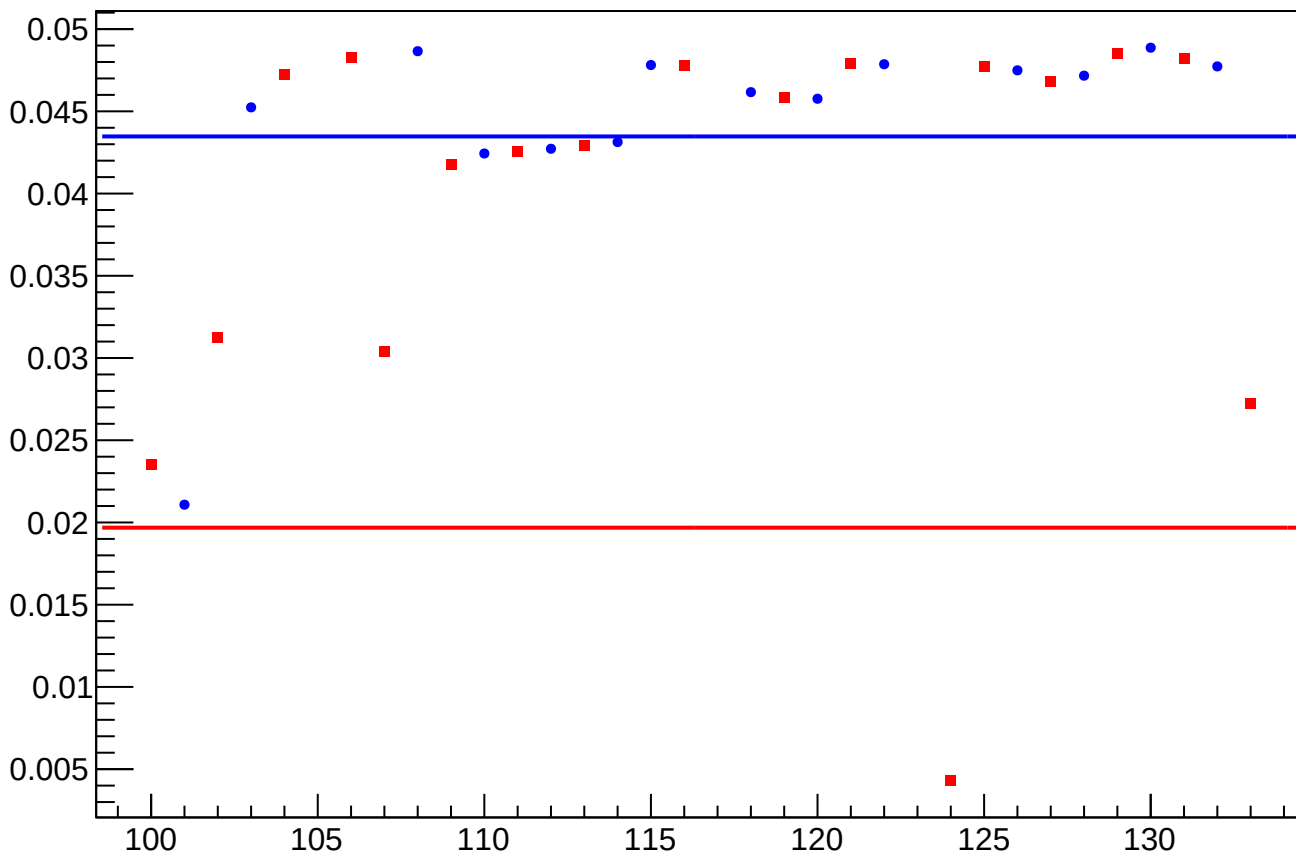
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5092506.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_atl2\_mean vs Slug



Right In: 0.043+/-0.000  $\chi^2/\text{NDF}$ : 2985464274.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 42006756446.1/16

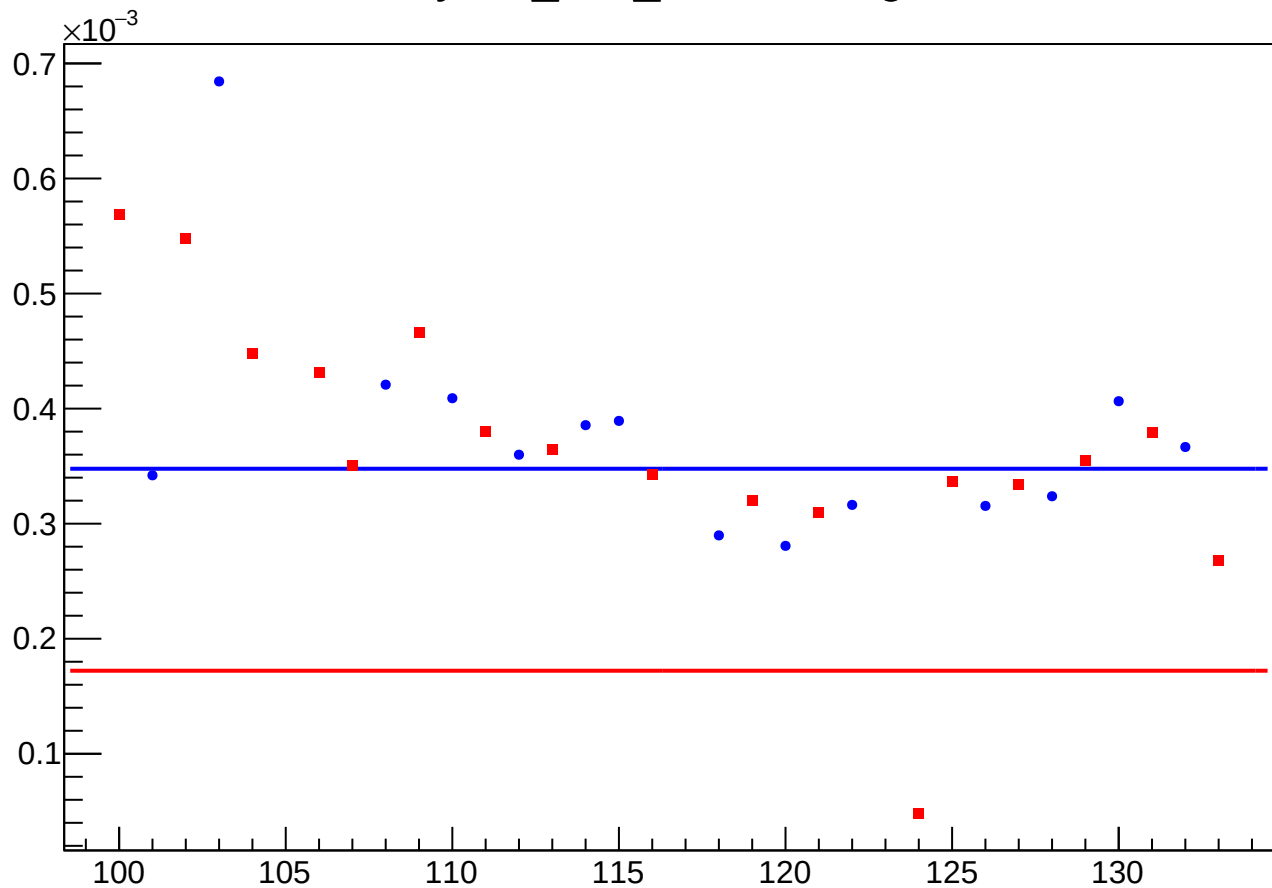
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 62595546956.8/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_atl2\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 430777.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5528162.8/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

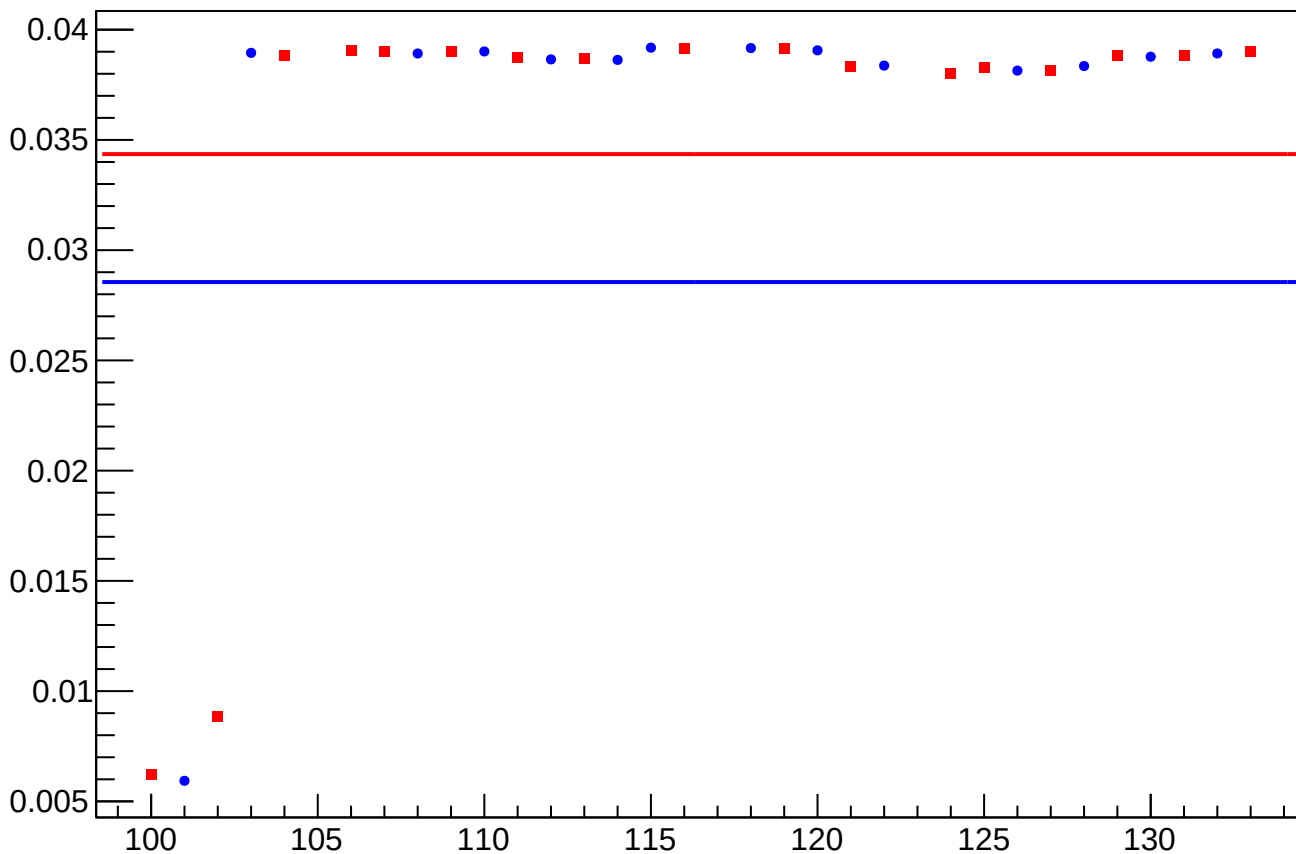
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7875895.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_atr1\_mean vs Slug



Right In: 0.029+/-0.000  $\chi^2/\text{NDF}$ : 101548201167.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.034+/-0.000  $\chi^2/\text{NDF}$ : 46378016644.2/16

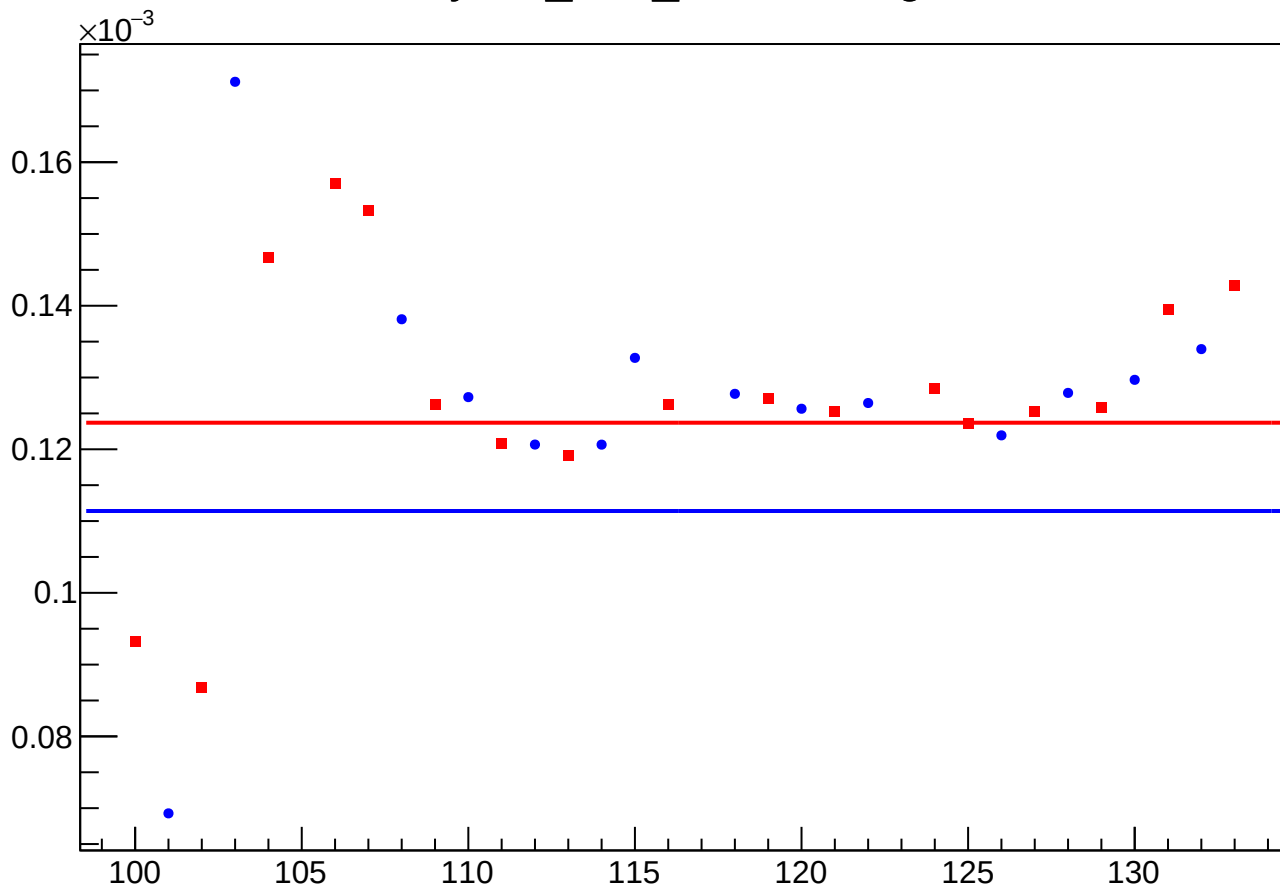
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.031+/-0.000  $\chi^2/\text{NDF}$ : 155054293945.9

- 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: 790534.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 251467.7/16

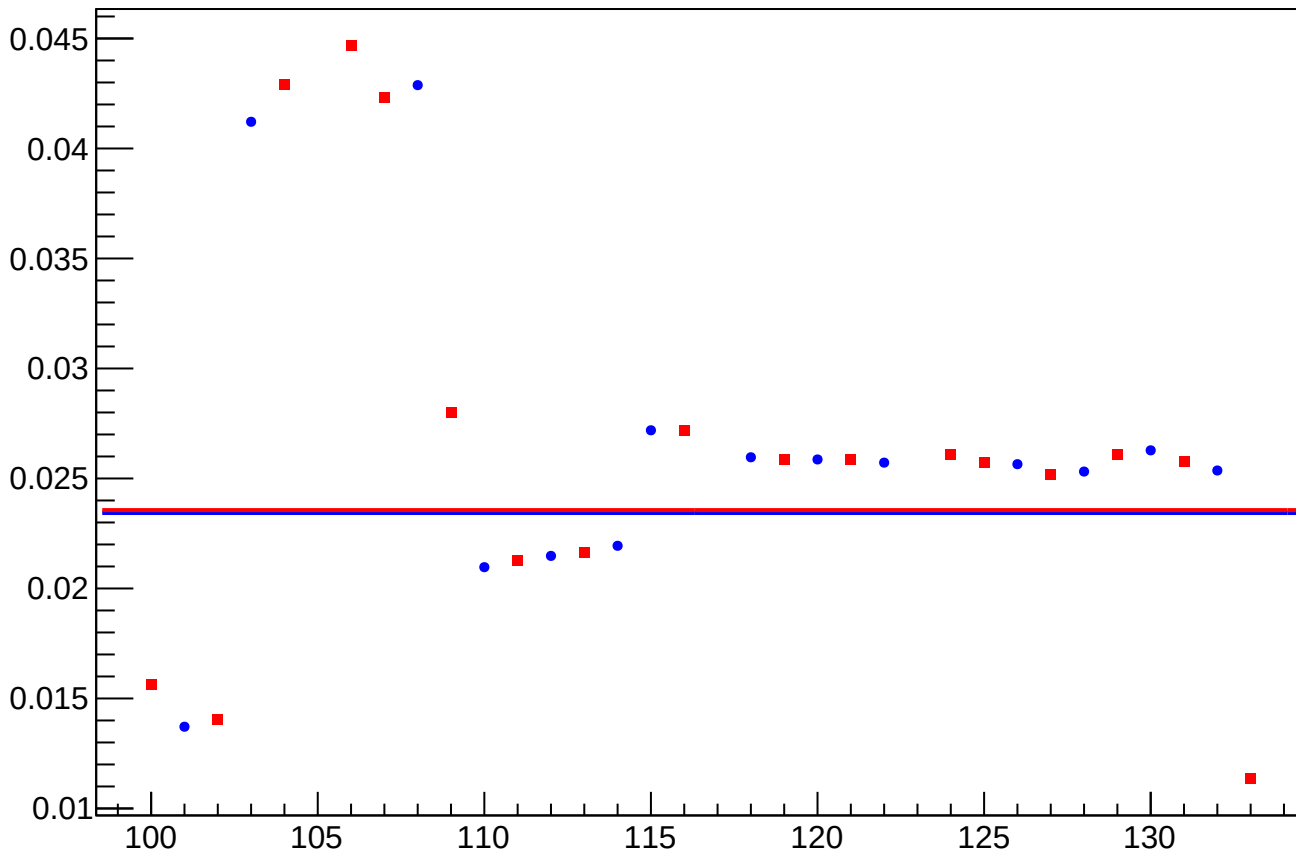
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1106059.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_atr2\_mean vs Slug



Right In: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 3540127400.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 5569665732.0/16

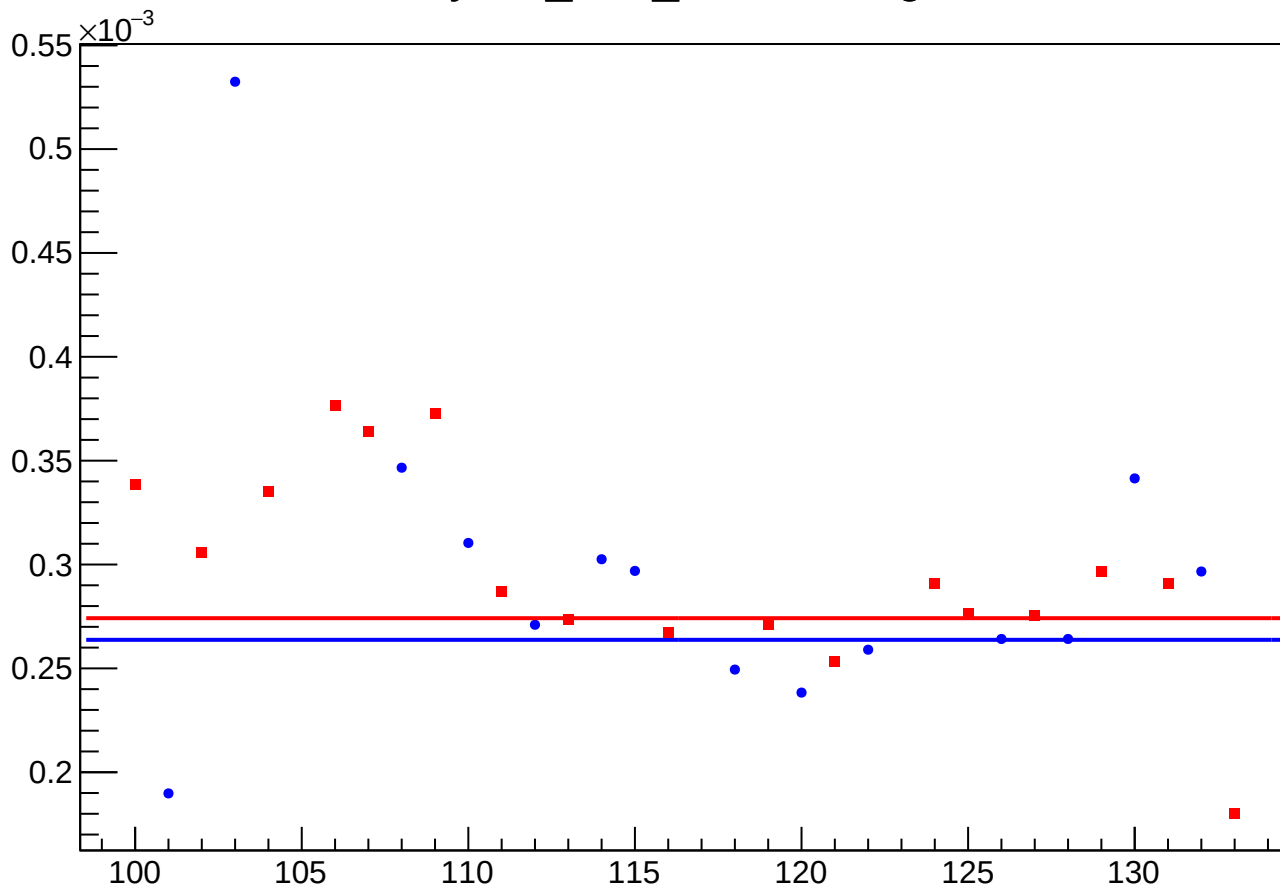
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 9110449051.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_atr2\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 596549.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 418713.1/16

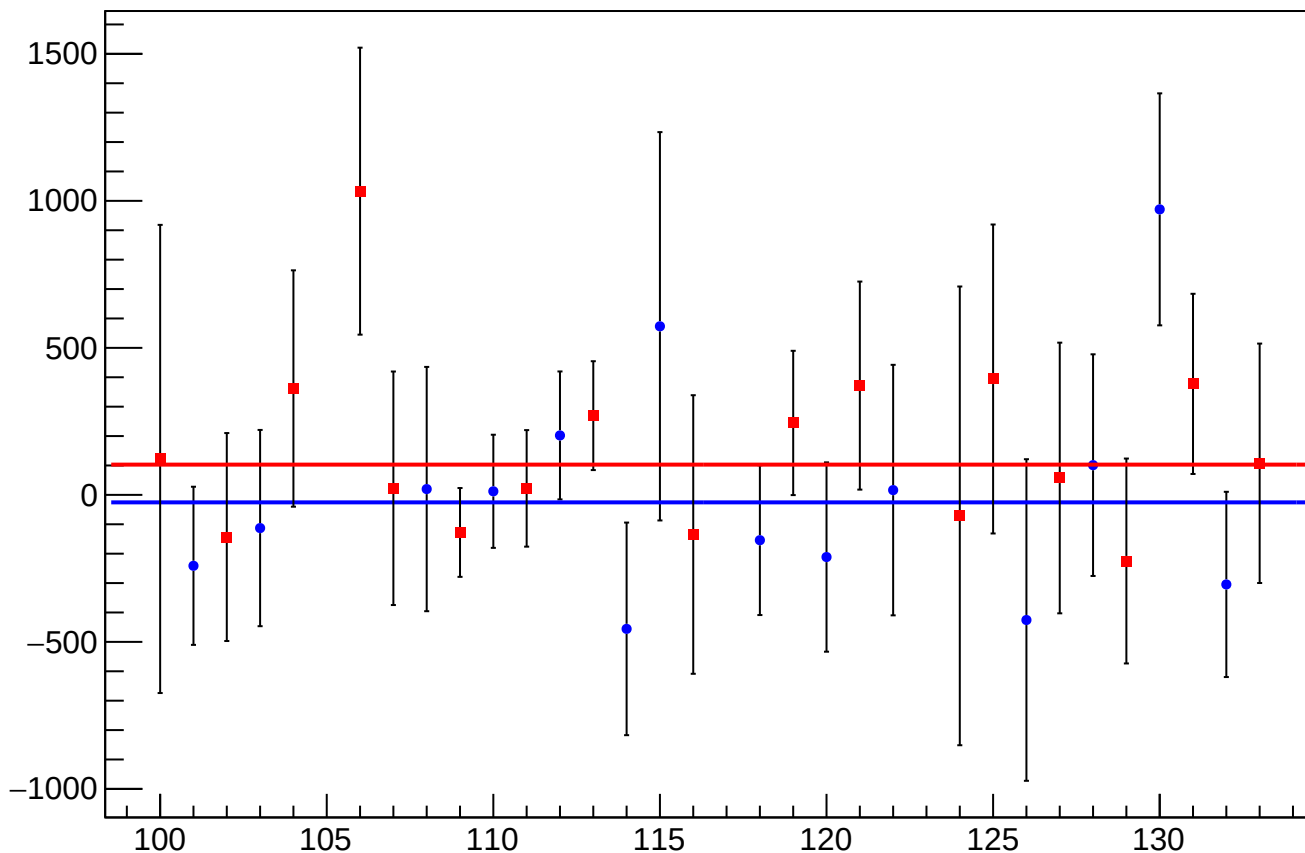
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1023458.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_mean vs Slug



Right In: -25.494+/-83.294  $\chi^2/\text{NDF}$ : 12.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 102.902+/-72.794  $\chi^2/\text{NDF}$ : 11.1/16

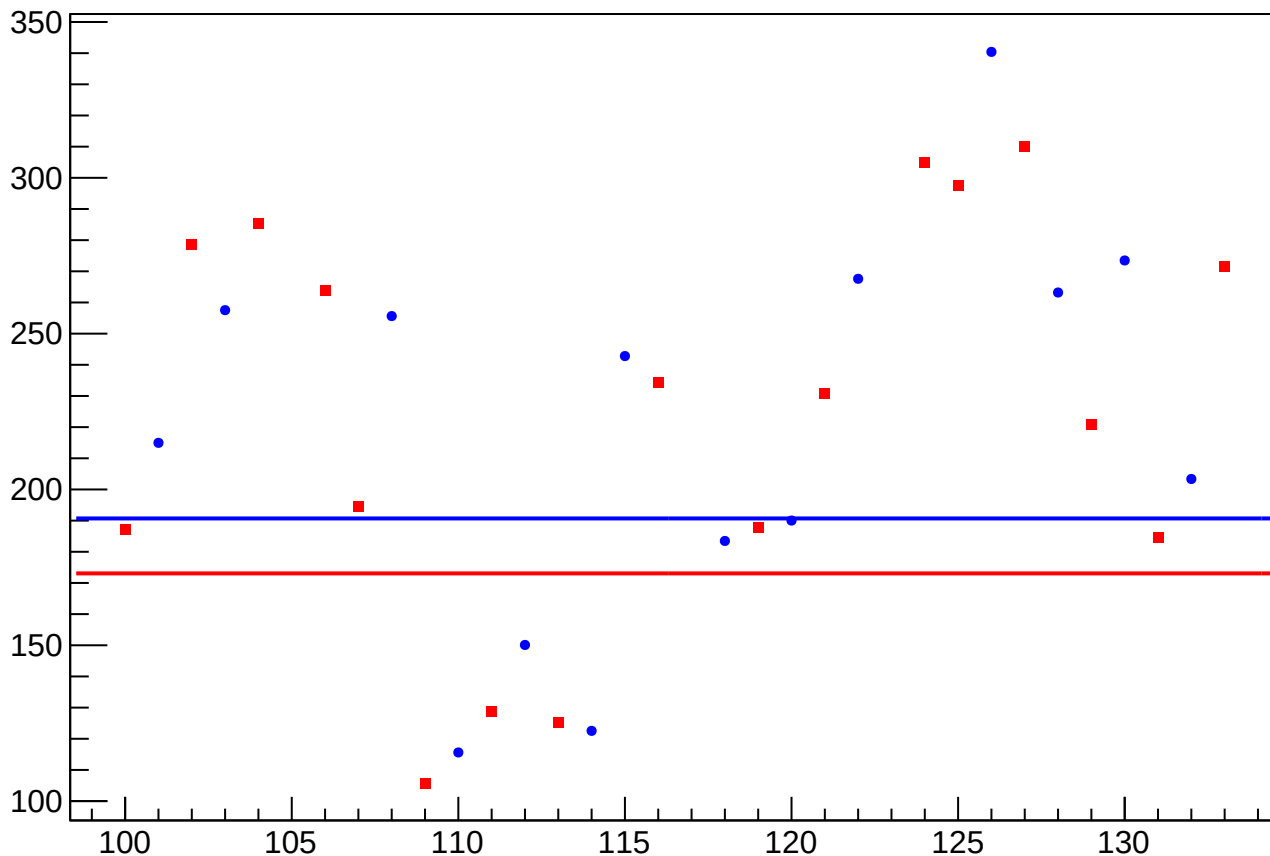
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.302+/-54.812  $\chi^2/\text{NDF}$ : 25.0/30

- 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: 190.699+/-0.059  $\chi^2/\text{NDF}$ : 984999.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 173.068+/-0.051  $\chi^2/\text{NDF}$ : 1640214.0/16

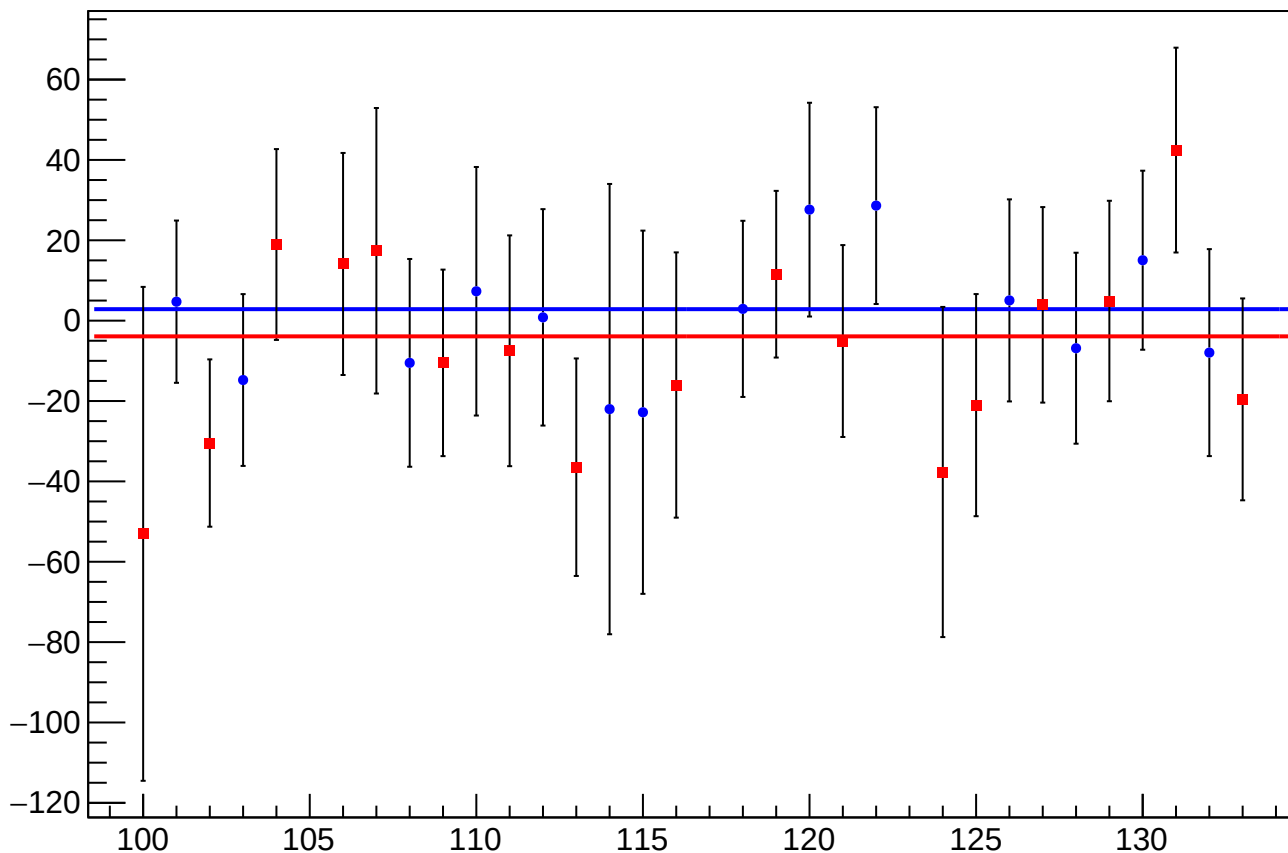
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 180.703+/-0.039  $\chi^2/\text{NDF}$ : 2676020.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_avg\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug



Right In: 2.859+/-6.835  $\chi^2/\text{NDF}$ : 4.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.908+/-6.428  $\chi^2/\text{NDF}$ : 11.2/16

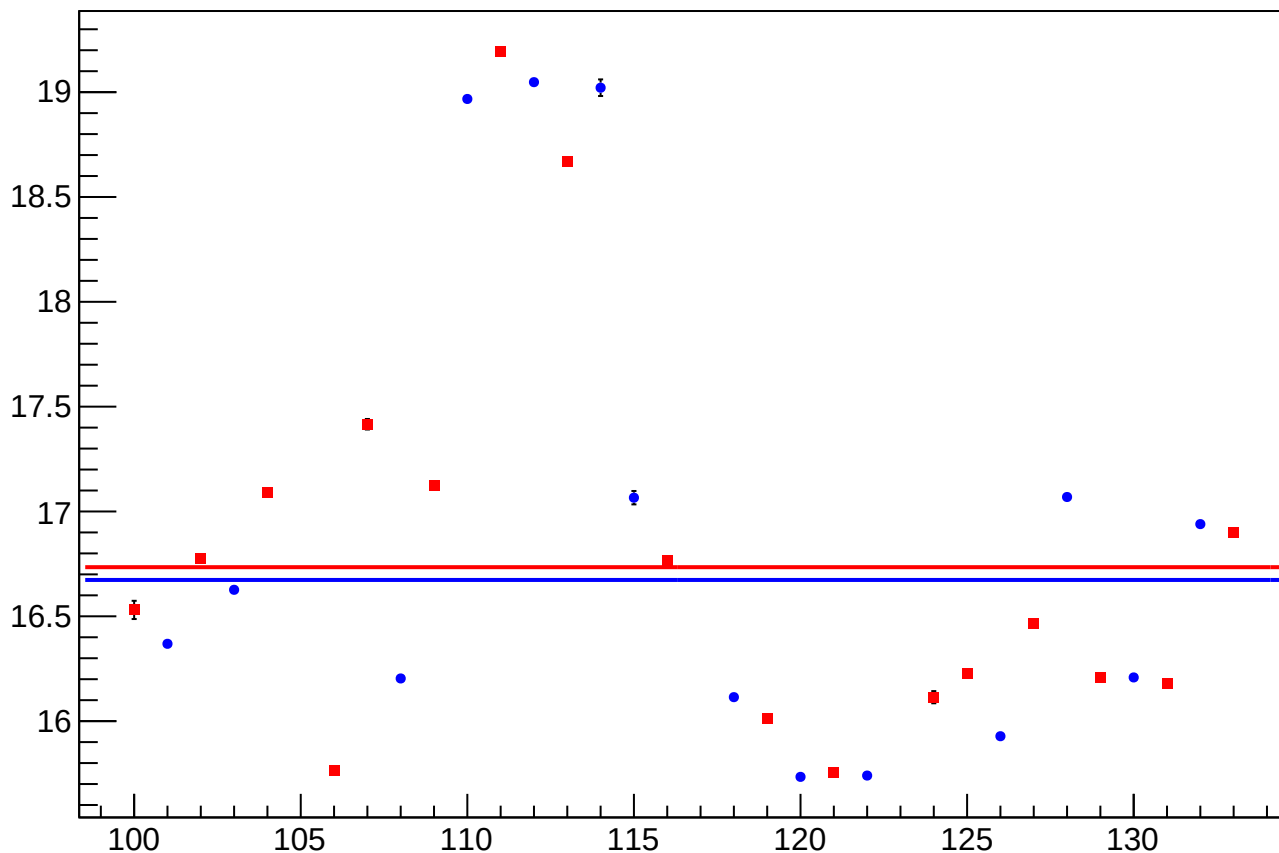
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.731+/-4.683  $\chi^2/\text{NDF}$ : 15.8/30

- 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: 16.673+/-0.005  $\chi^2/\text{NDF}$ : 41432.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16.734+/-0.005  $\chi^2/\text{NDF}$ : 38189.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

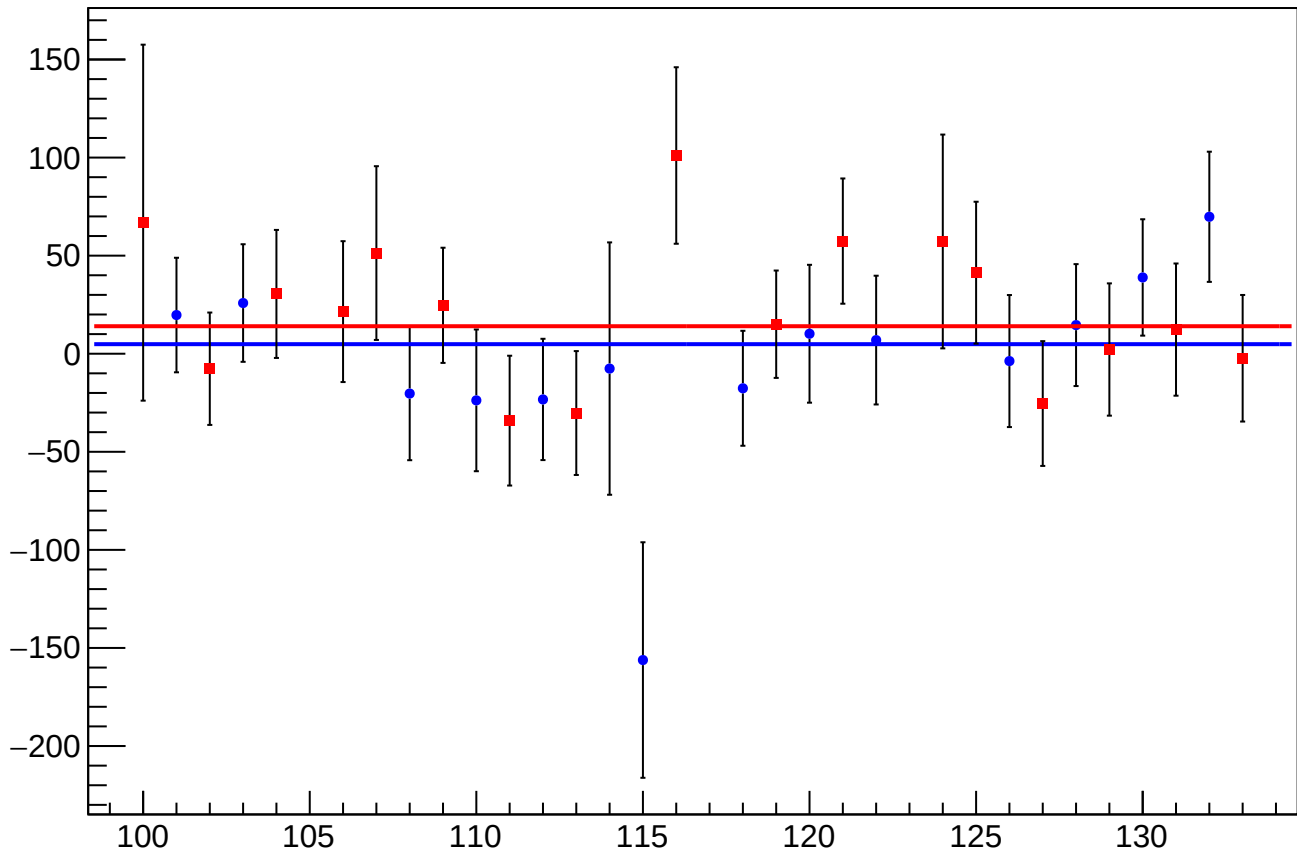
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.706+/-0.003  $\chi^2/\text{NDF}$ : 79705.8/30

- 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: 4.868 $\pm$ 8.999  $\chi^2$ /NDF: 15.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.021 $\pm$ 8.374  $\chi^2$ /NDF: 14.8/16

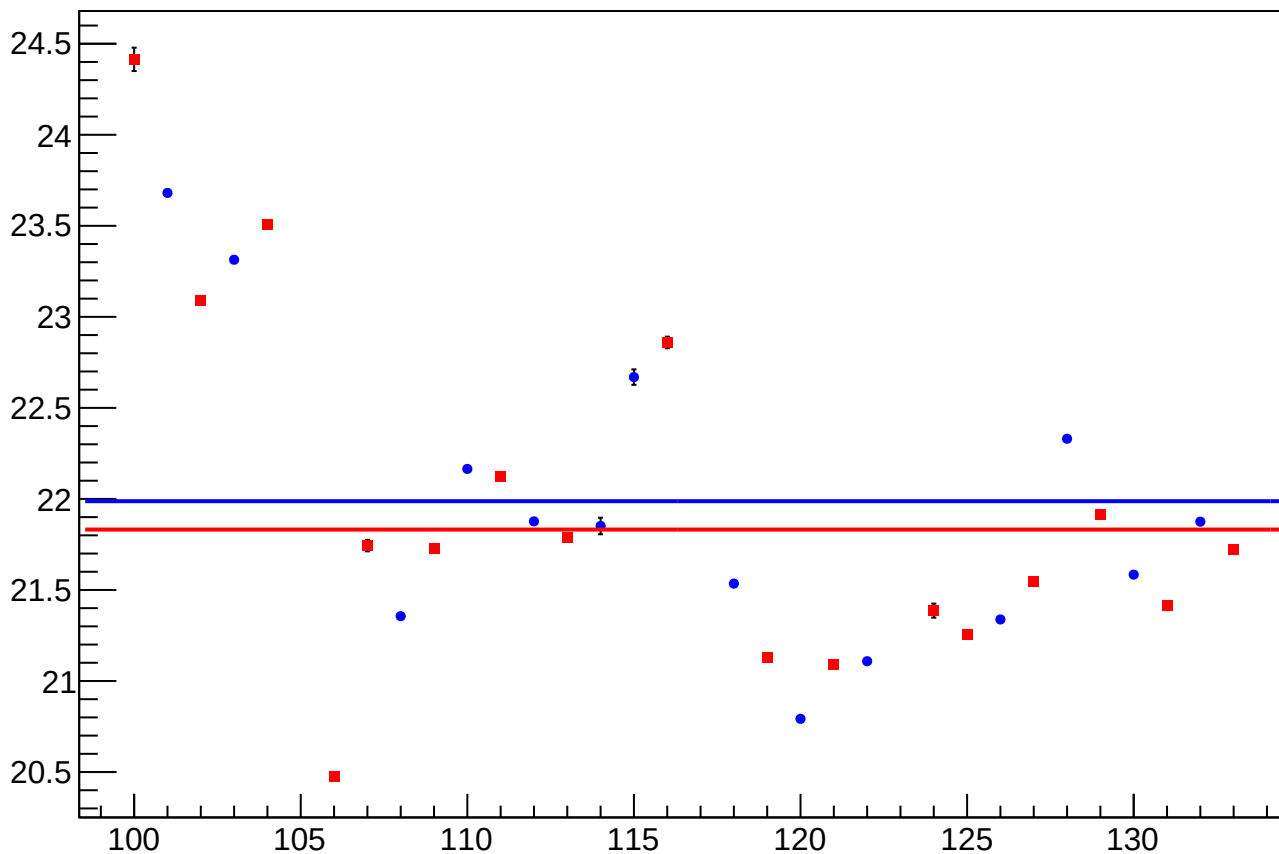
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.773 $\pm$ 6.130  $\chi^2$ /NDF: 31.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_an\_avg\_bcm\_dg\_us\_agg\_dd\_rms vs Slug



Right In: 21.988+/-0.006  $\chi^2/\text{NDF}$ : 17277.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.832+/-0.006  $\chi^2/\text{NDF}$ : 18390.1/16

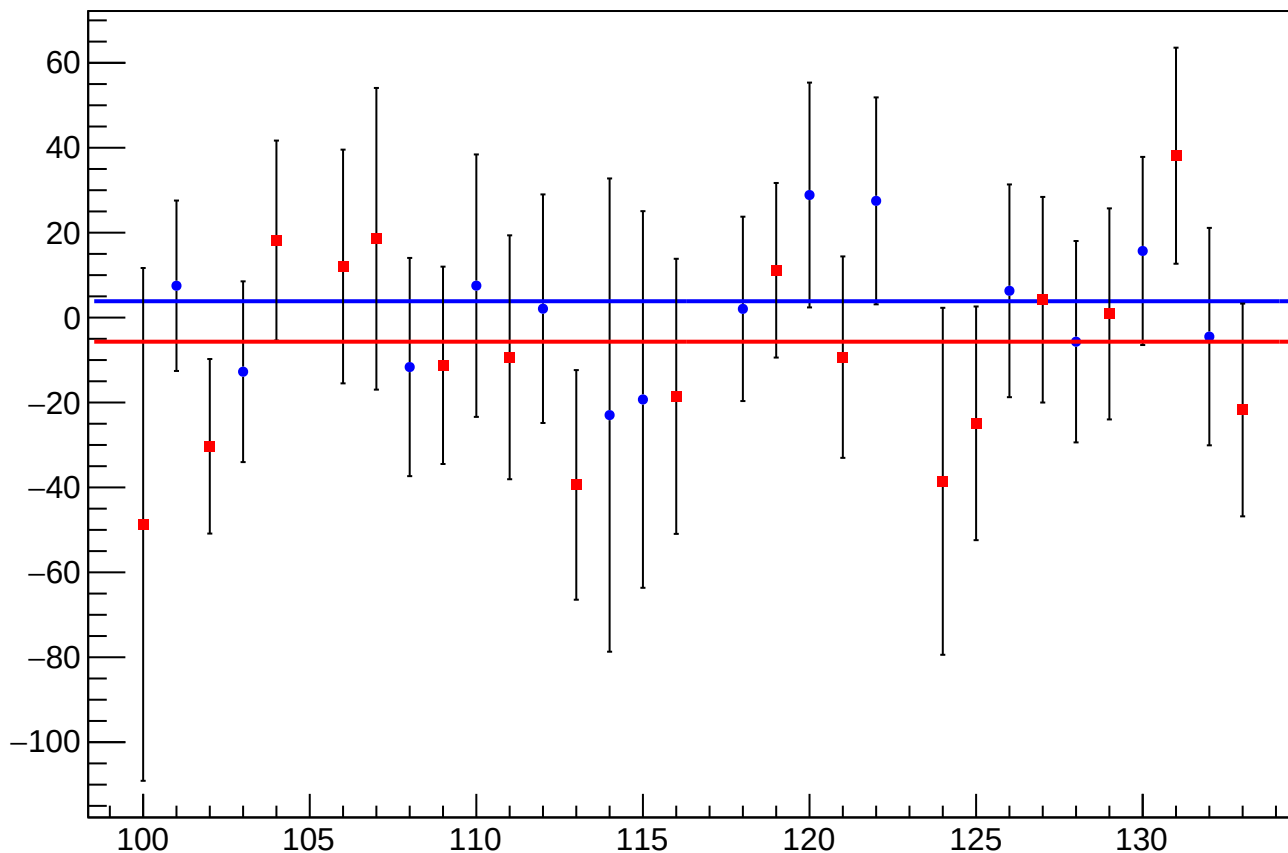
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.904+/-0.004  $\chi^2/\text{NDF}$ : 35988.8/30

- 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: 3.852 $\pm$ 6.800  $\chi^2$ /NDF: 3.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -5.678 $\pm$ 6.393  $\chi^2$ /NDF: 11.1/16

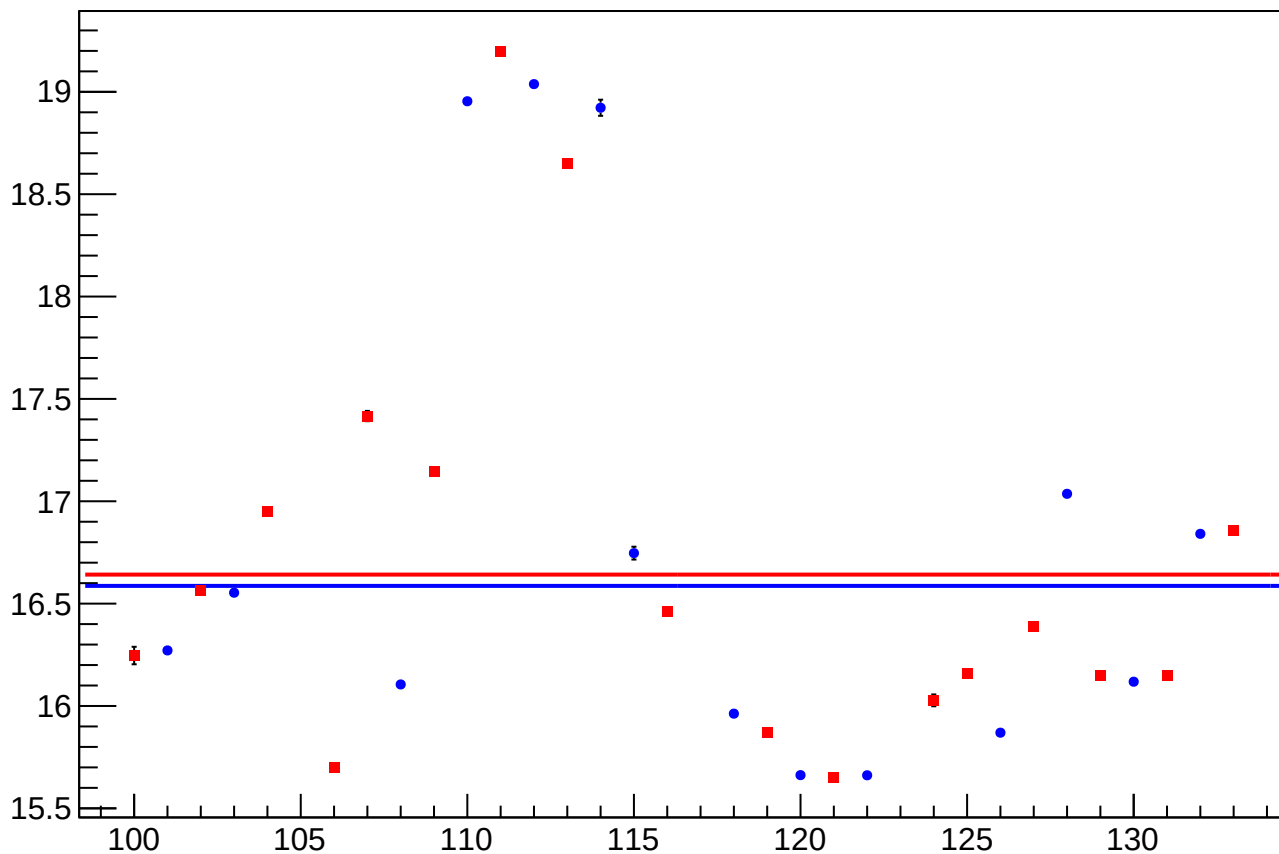
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.206 $\pm$ 4.658  $\chi^2$ /NDF: 16.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 16.587+/-0.005  $\chi^2/\text{NDF}$ : 43481.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16.642+/-0.005  $\chi^2/\text{NDF}$ : 40869.1/16

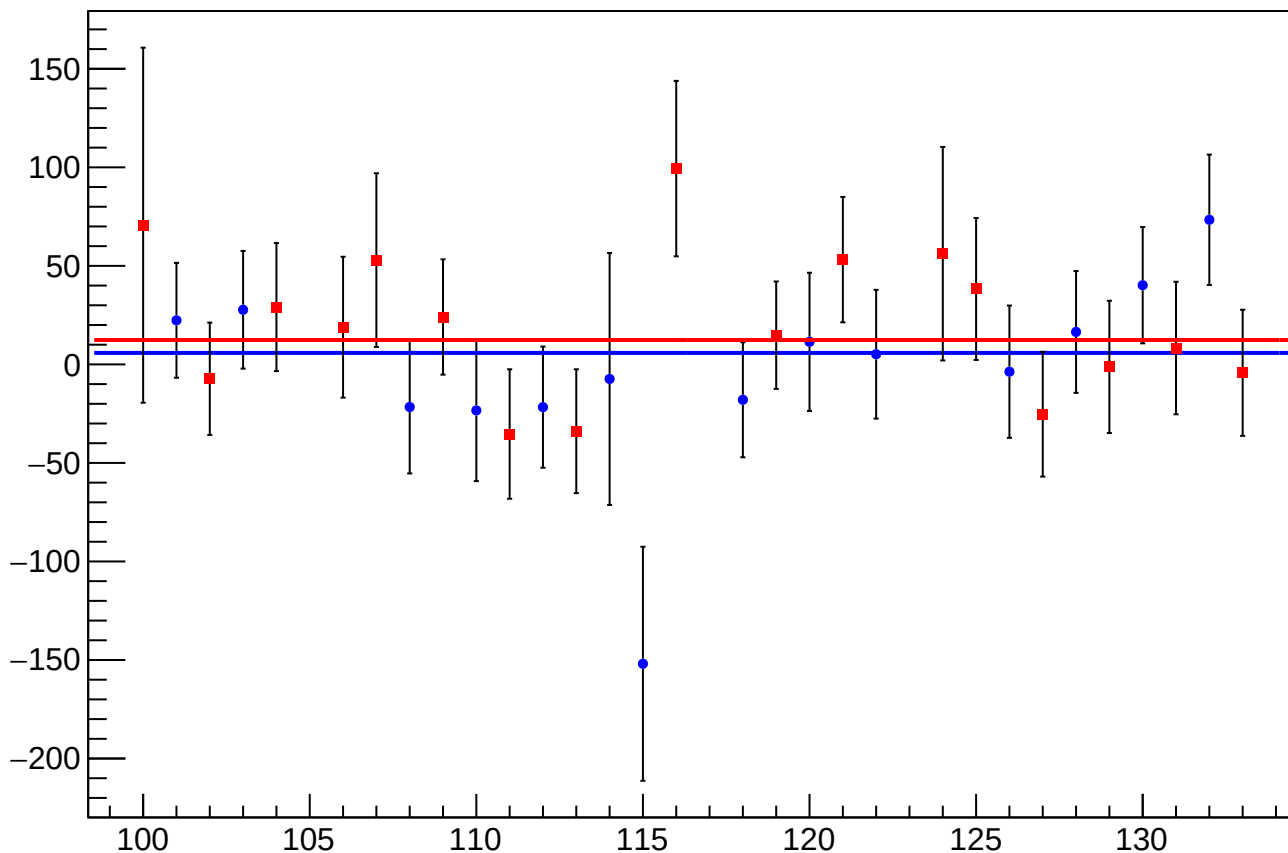
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.616+/-0.003  $\chi^2/\text{NDF}$ : 84420.2/30

- 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: 5.830 $\pm$ 8.958  $\chi^2/\text{NDF}$ : 16.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12.384 $\pm$ 8.333  $\chi^2/\text{NDF}$ : 15.0/16

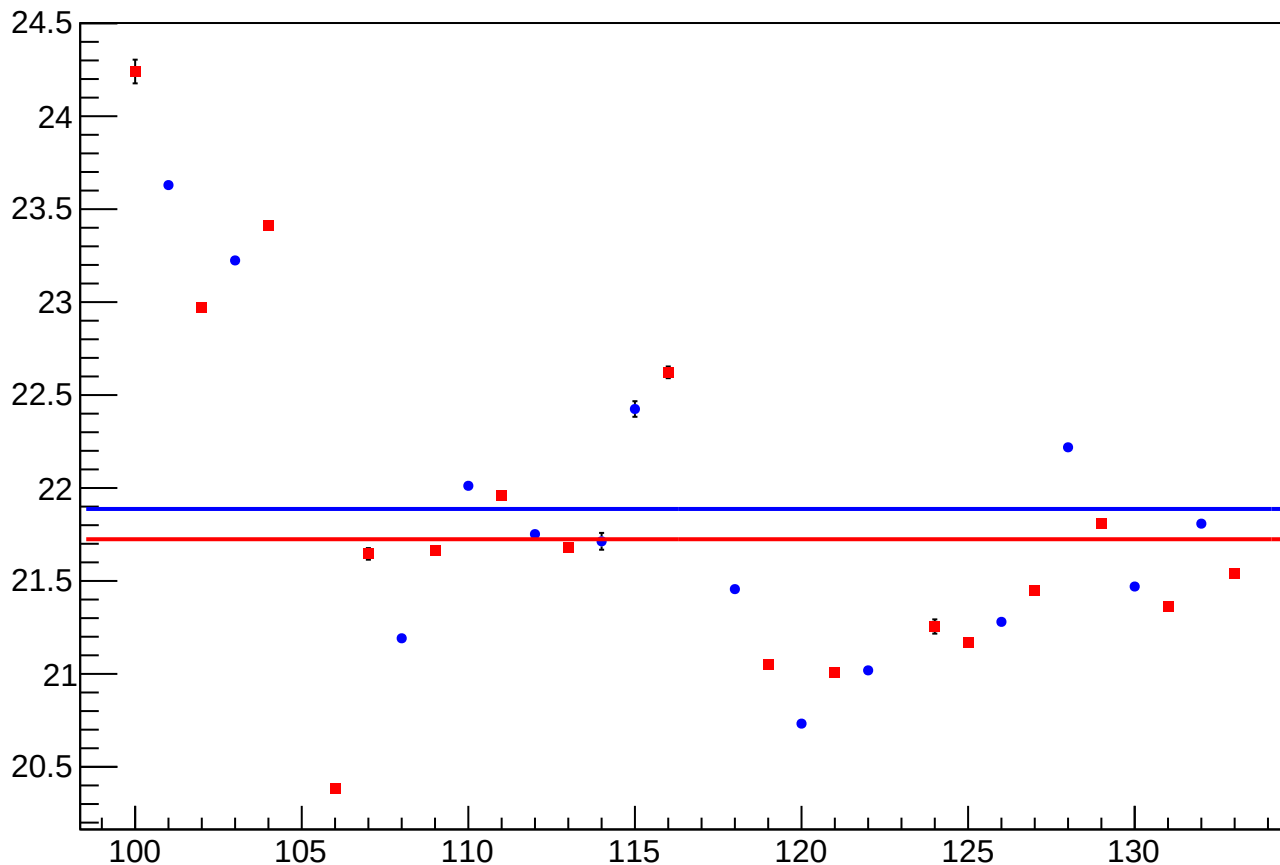
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.344 $\pm$ 6.101  $\chi^2/\text{NDF}$ : 31.8/30

- sign 0.000 $\pm$ 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: 21.887+/-0.006  $\chi^2/\text{NDF}$ : 17569.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.724+/-0.006  $\chi^2/\text{NDF}$ : 17869.5/16

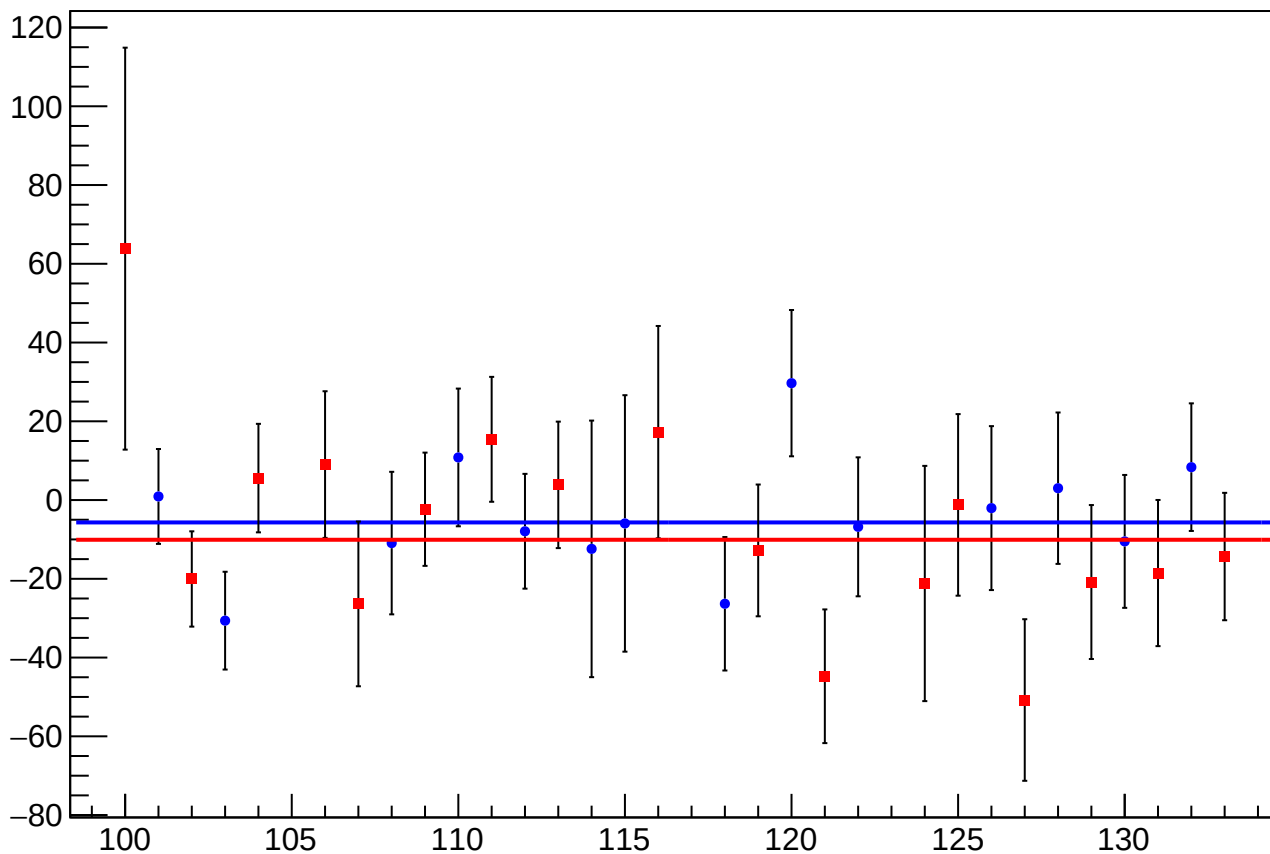
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.800+/-0.004  $\chi^2/\text{NDF}$ : 35793.0/30

- 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: -5.684+/-4.554  $\chi^2/\text{NDF}$ : 11.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10.086+/-4.324  $\chi^2/\text{NDF}$ : 19.4/16

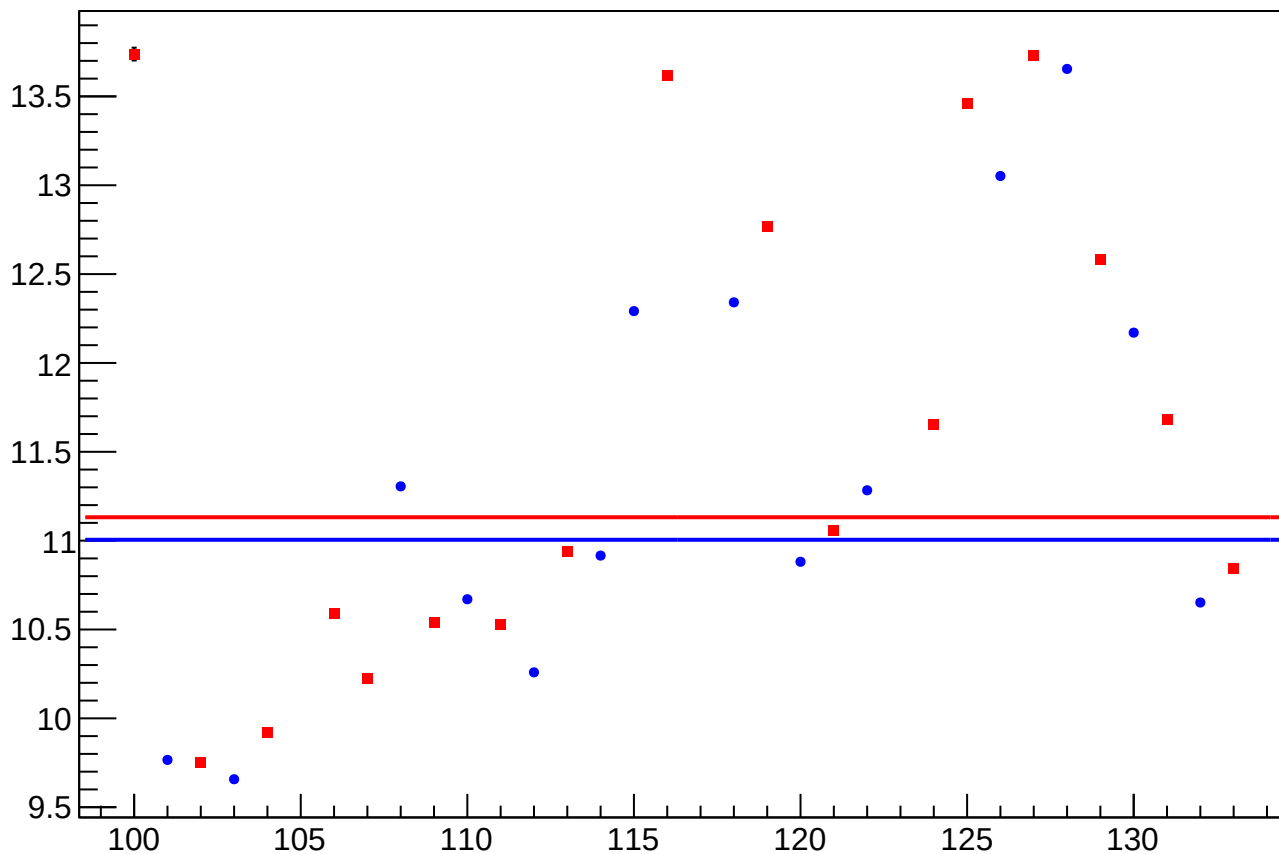
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.999+/-3.136  $\chi^2/\text{NDF}$ : 31.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 11.005 $\pm$ 0.003  $\chi^2$ /NDF: 135210.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11.132 $\pm$ 0.003  $\chi^2$ /NDF: 161350.8/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

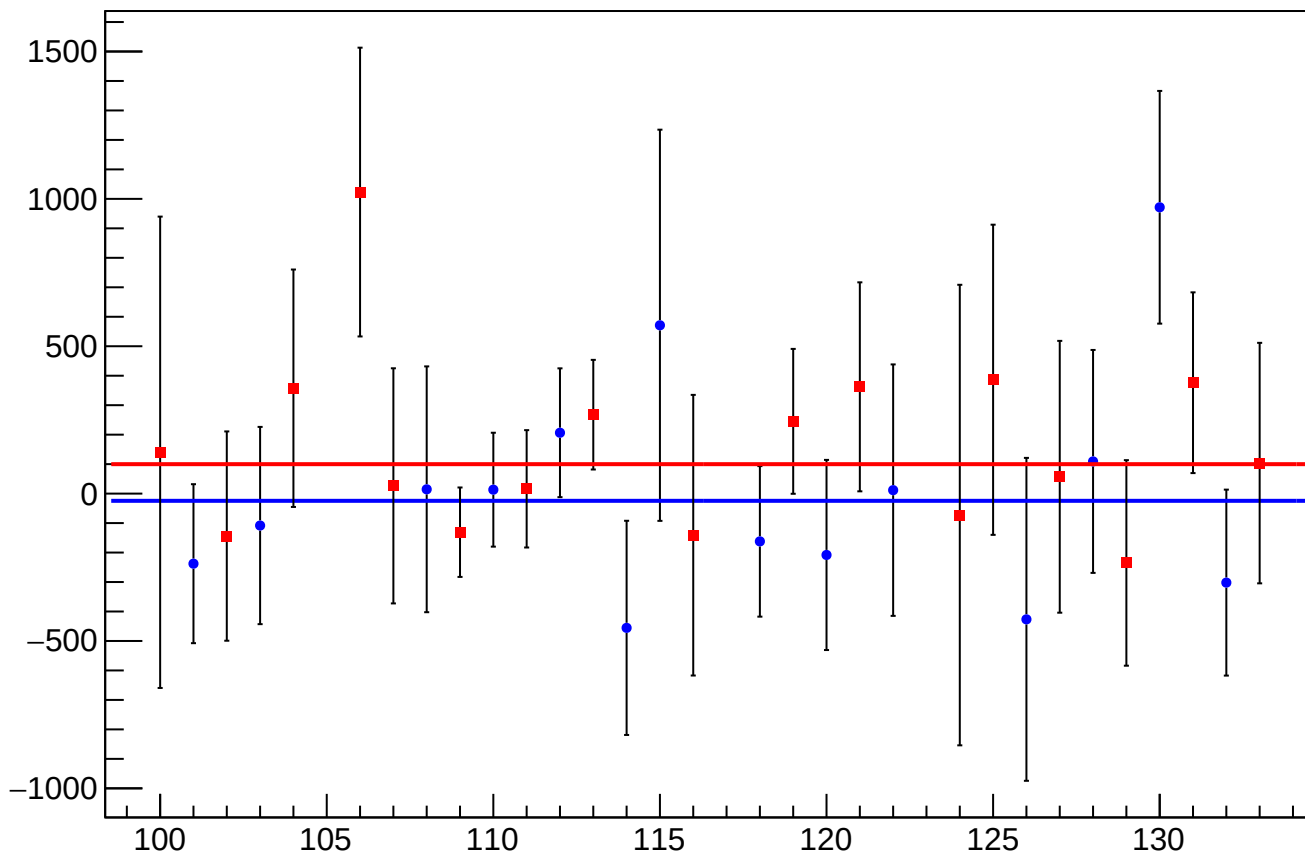
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.072 $\pm$ 0.002  $\chi^2$ /NDF: 297375.8/30

- 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: -24.484+/-83.562  $\chi^2/\text{NDF}$ : 12.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 99.886+/-73.042  $\chi^2/\text{NDF}$ : 11.0/16

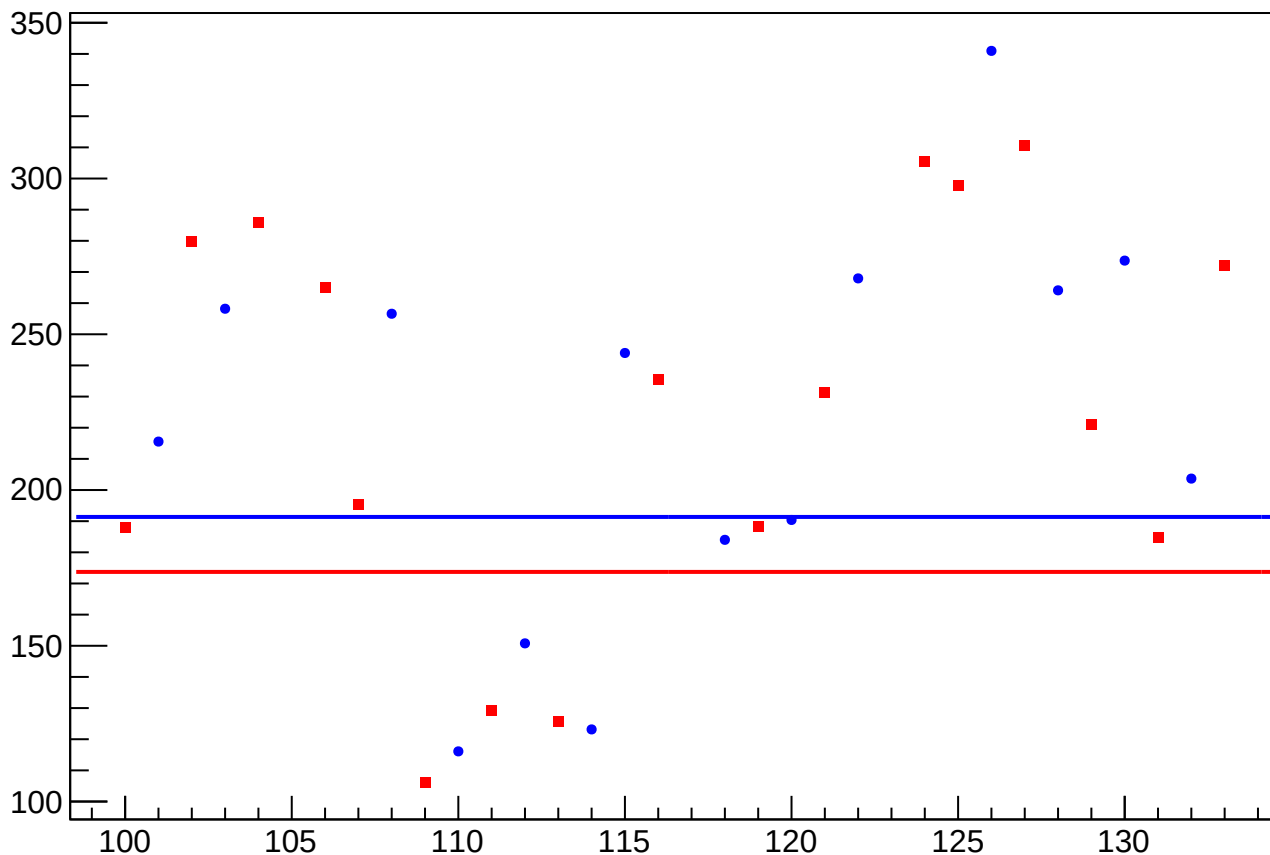
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.018+/-54.994  $\chi^2/\text{NDF}$ : 24.8/30

- 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: 191.361 $\pm$ 0.059  $\chi^2$ /NDF: 979480.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 173.714 $\pm$ 0.052  $\chi^2$ /NDF: 1632634.2/16

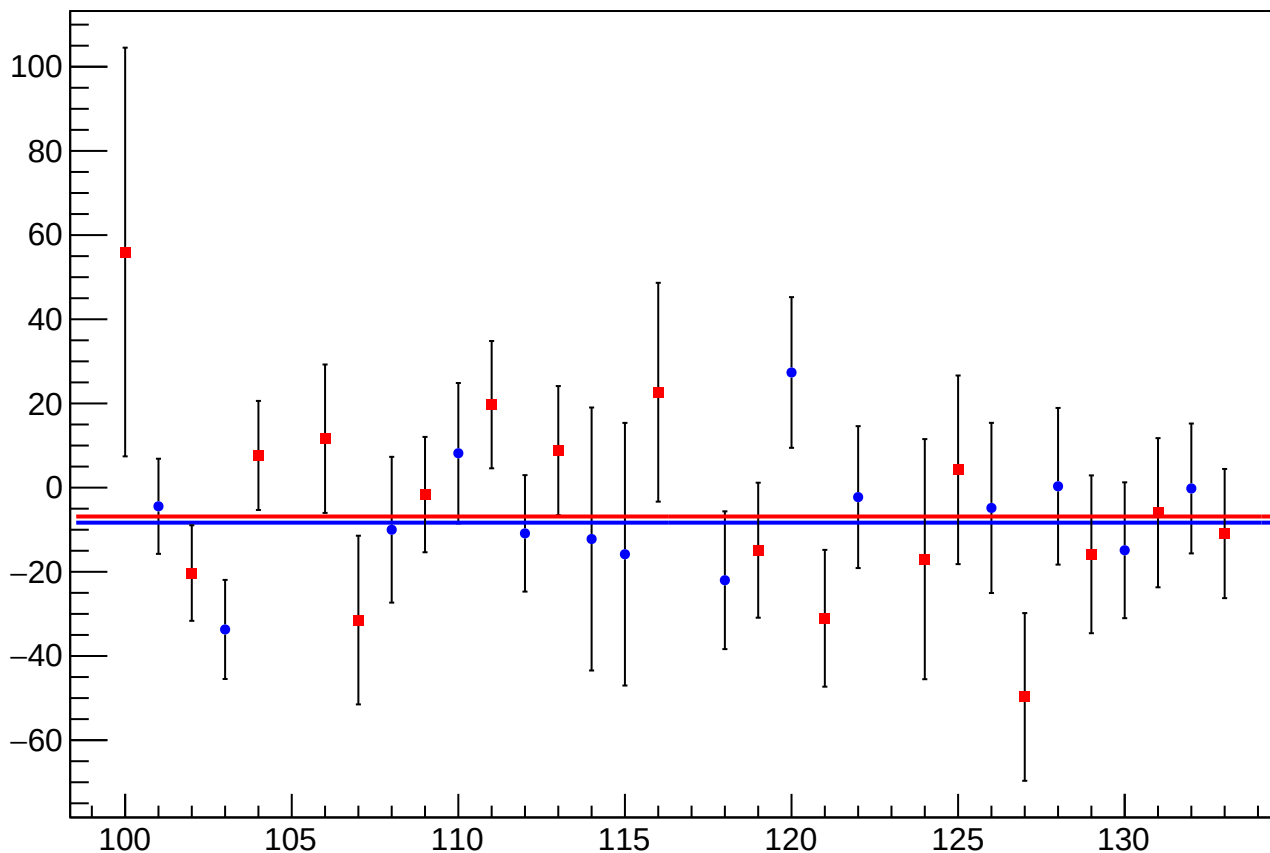
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 181.357 $\pm$ 0.039  $\chi^2$ /NDF: 2662678.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_mean vs Slug



Right In: -8.321+/-4.344  $\chi^2/\text{NDF}$ : 11.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.860+/-4.118  $\chi^2/\text{NDF}$ : 20.3/16

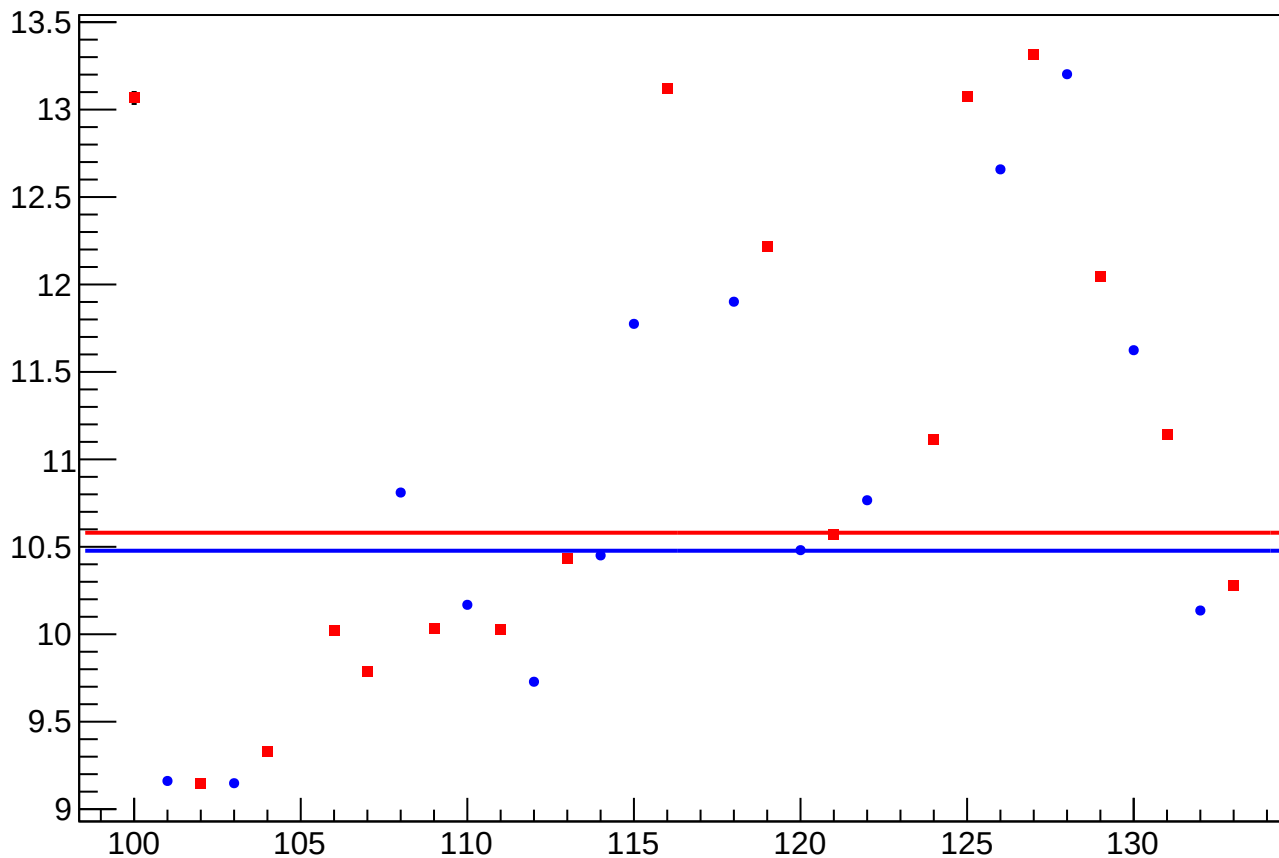
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.552+/-2.989  $\chi^2/\text{NDF}$ : 31.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_rms vs Slug



Right In: 10.478+/-0.003  $\chi^2/\text{NDF}$ : 156342.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.581+/-0.003  $\chi^2/\text{NDF}$ : 185124.3/16

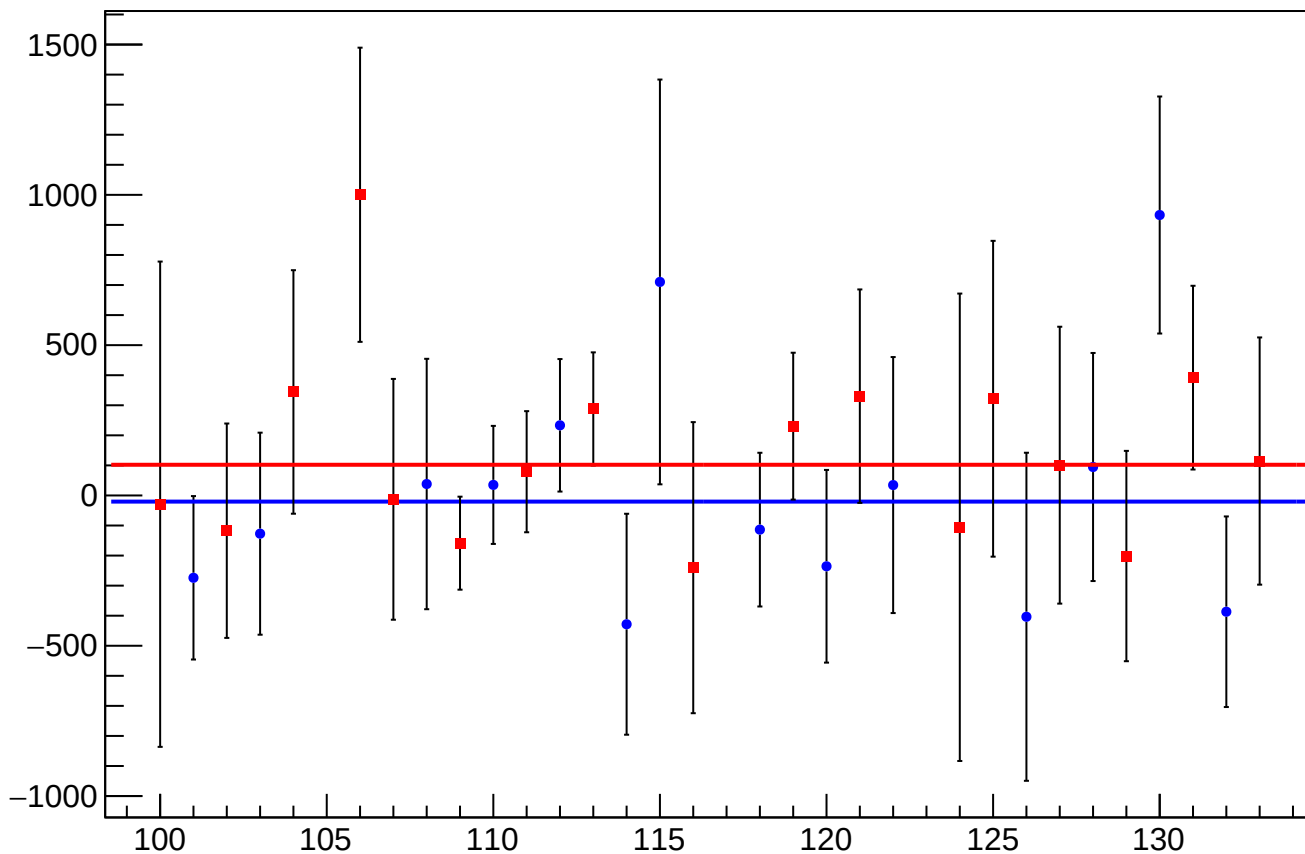
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.532+/-0.002  $\chi^2/\text{NDF}$ : 342058.8/30

- 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: -20.436+/-84.060  $\chi^2/\text{NDF}$ : 13.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 102.083+/-73.659  $\chi^2/\text{NDF}$ : 11.1/16

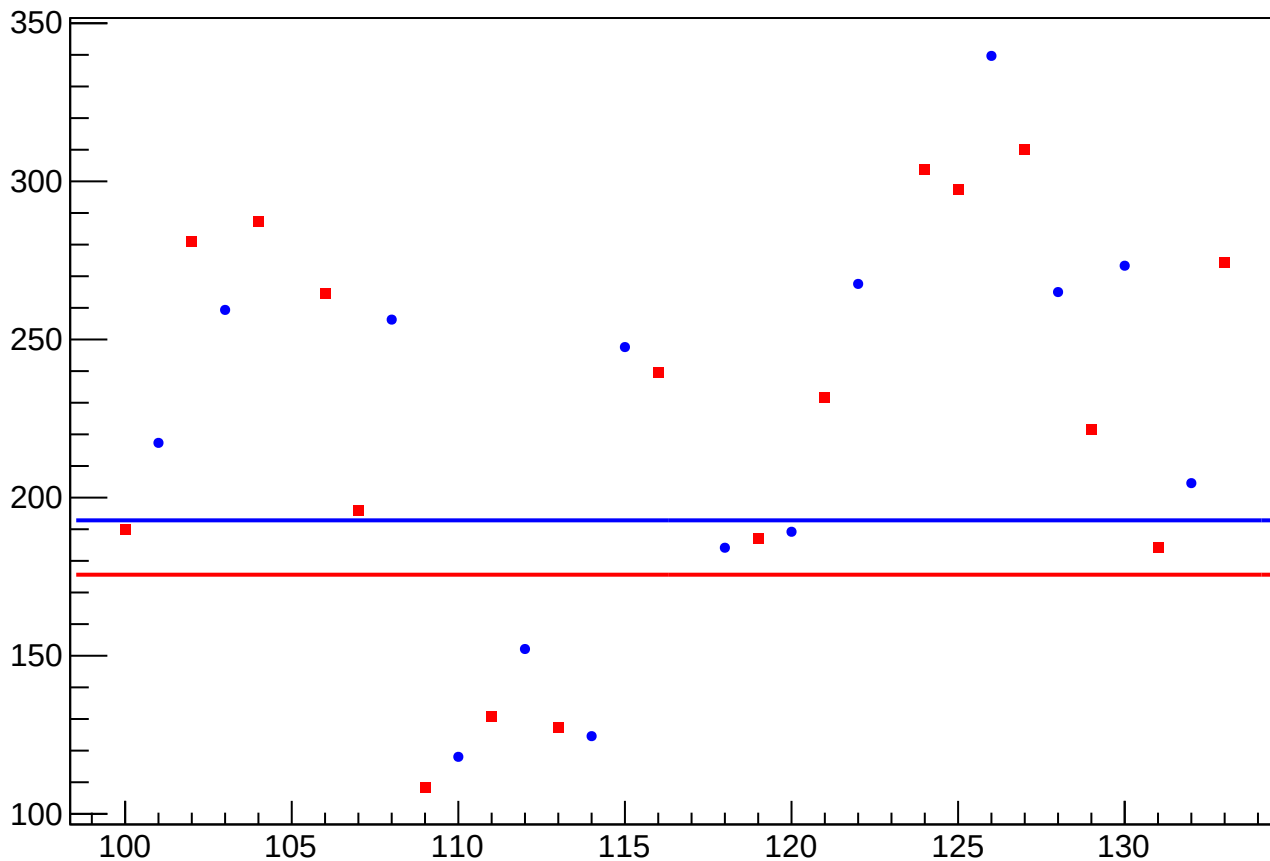
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.869+/-55.399  $\chi^2/\text{NDF}$ : 25.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_rms vs Slug



Right In: 192.814 $\pm$ 0.059  $\chi^2$ /NDF: 949086.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 175.627 $\pm$ 0.052  $\chi^2$ /NDF: 1581690.1/16

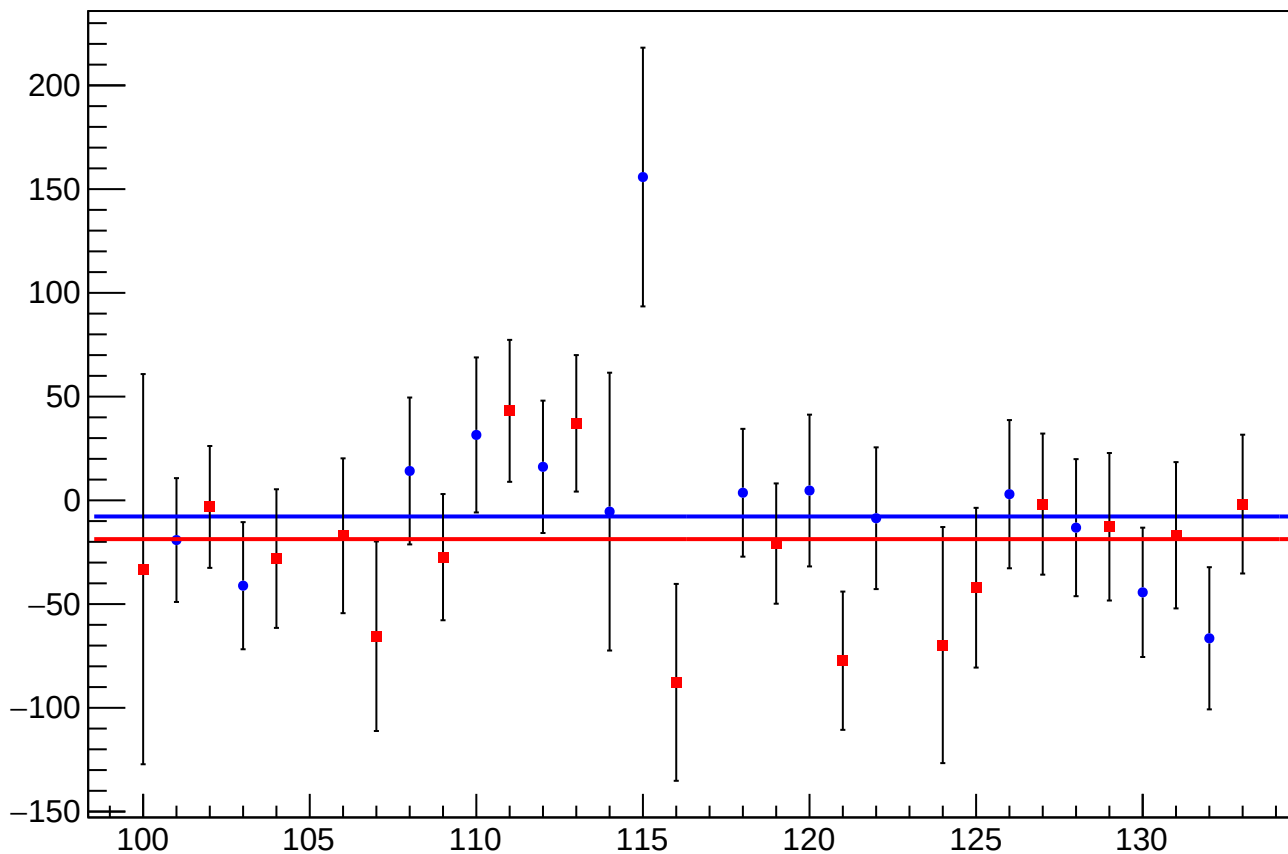
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 183.092 $\pm$ 0.039  $\chi^2$ /NDF: 2578067.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_mean vs Slug



Right In:  $-7.774 \pm 9.363$   $\chi^2/\text{NDF}$ : 15.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-18.689 \pm 8.737$   $\chi^2/\text{NDF}$ : 14.6/16

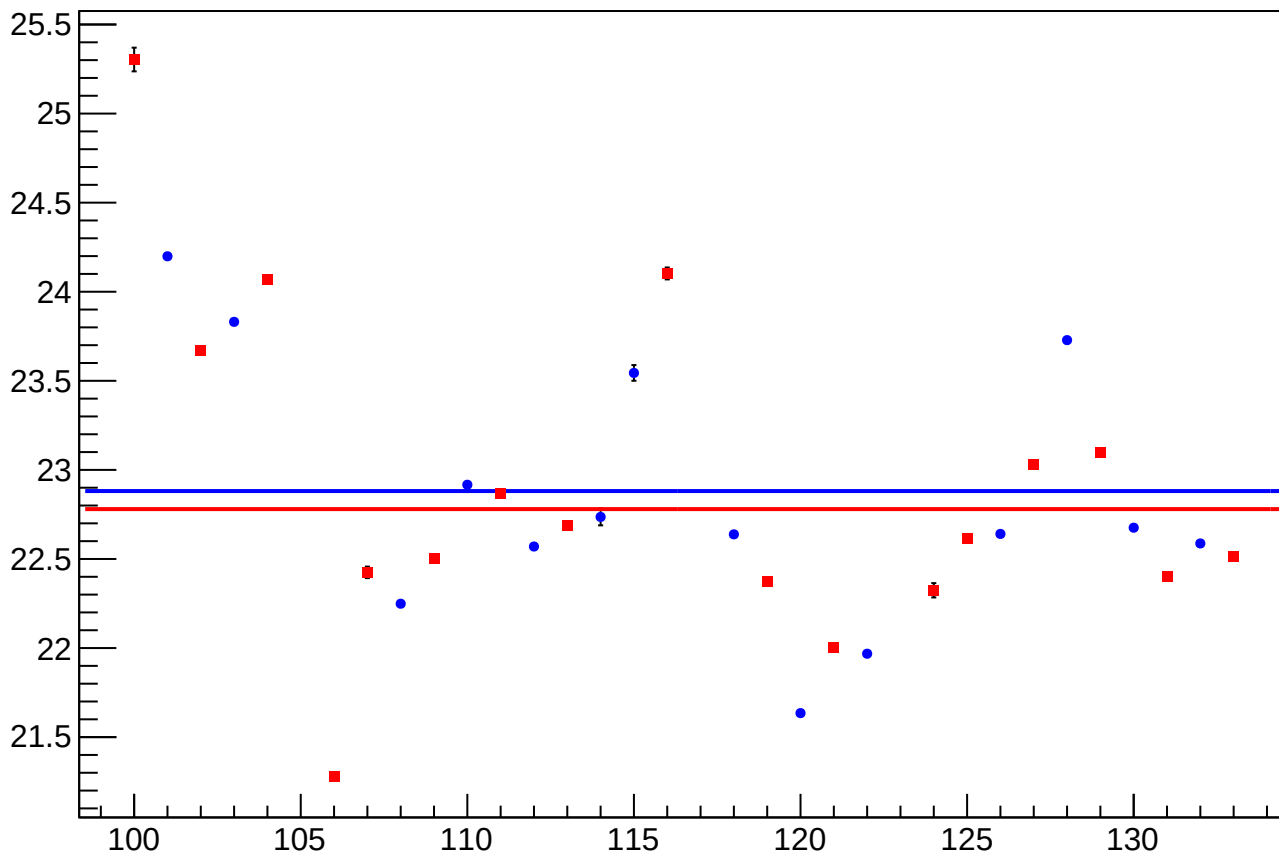
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-13.609 \pm 6.388$   $\chi^2/\text{NDF}$ : 30.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 22.881 $\pm$ 0.007  $\chi^2$ /NDF: 12404.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.780 $\pm$ 0.006  $\chi^2$ /NDF: 13603.7/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

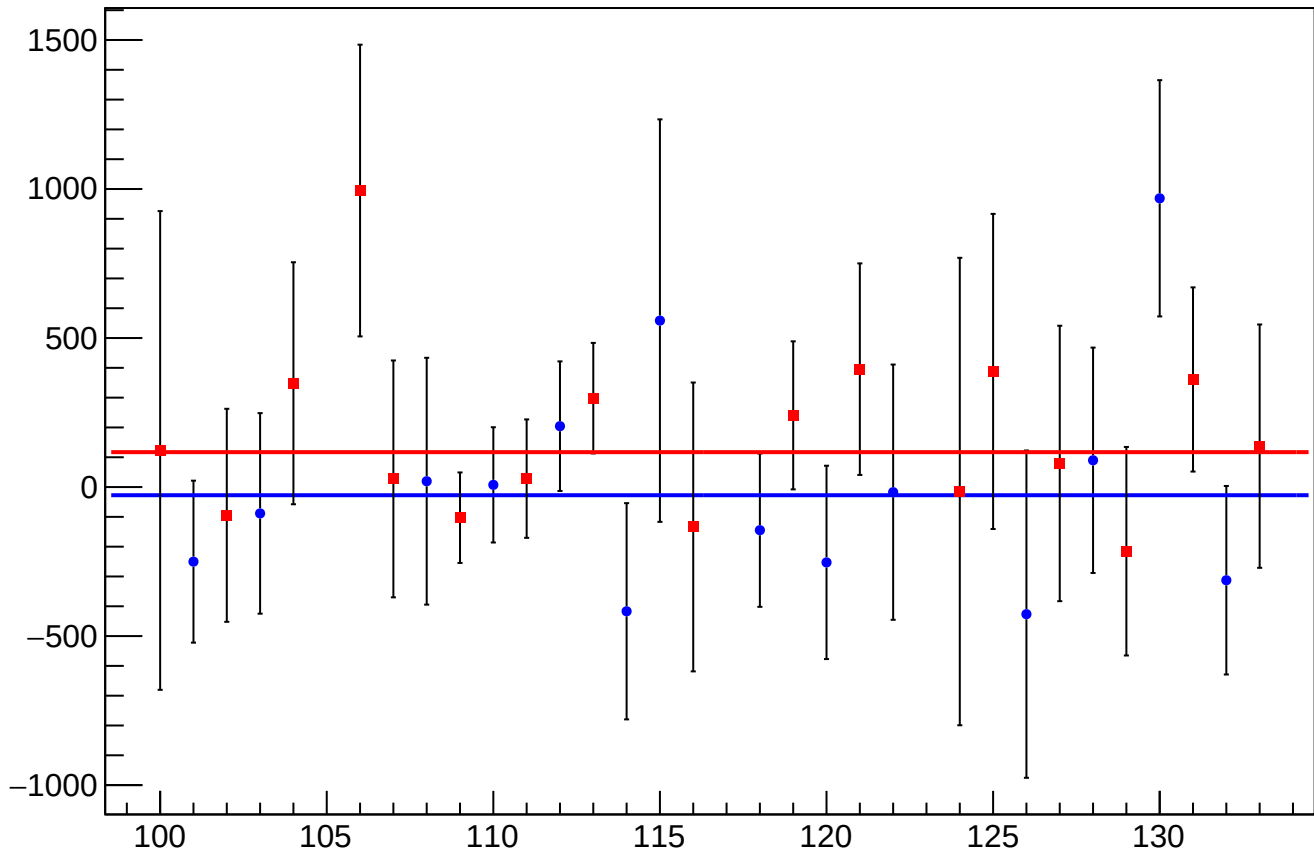
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 22.827 $\pm$ 0.005  $\chi^2$ /NDF: 26133.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_mean vs Slug



Right In: -27.369+/-83.723  $\chi^2/\text{NDF}$ : 12.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 117.141+/-73.185  $\chi^2/\text{NDF}$ : 10.2/16

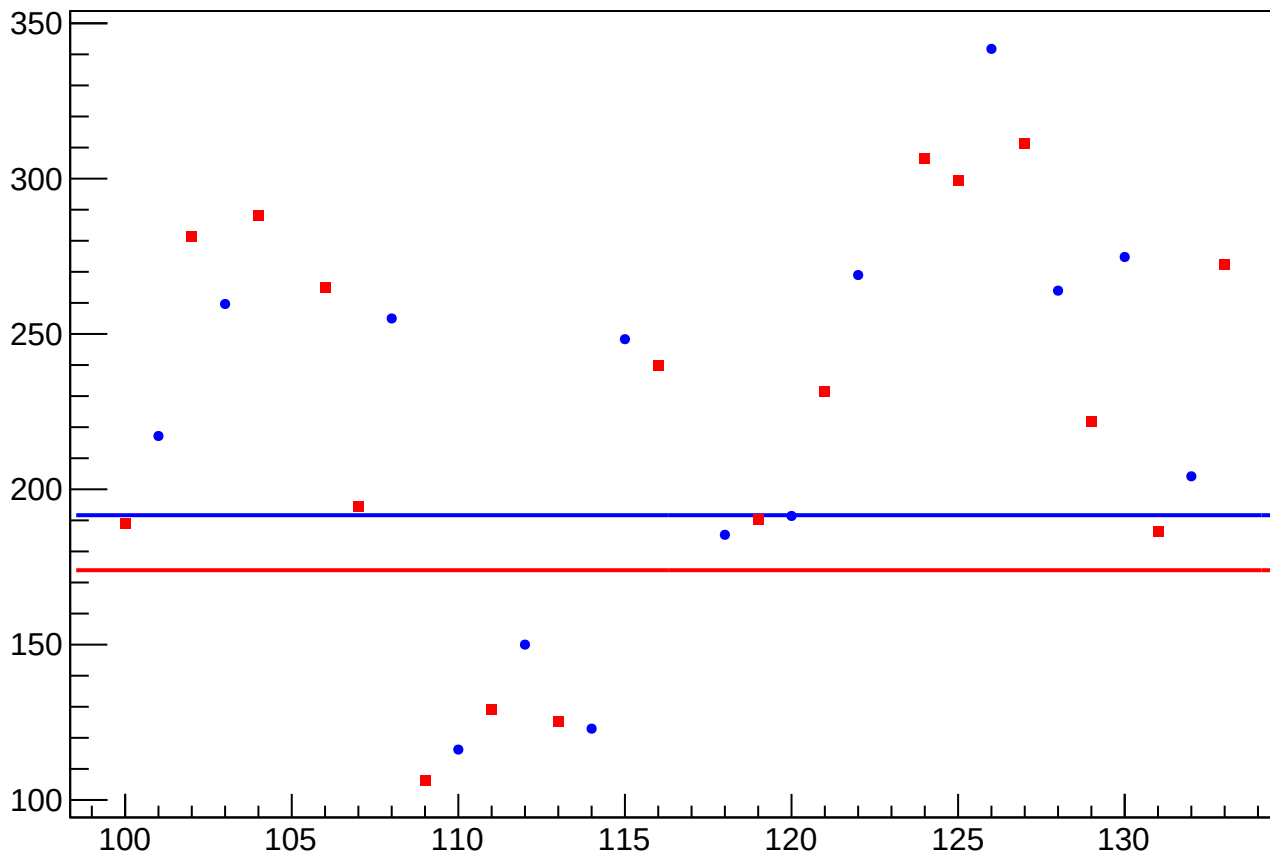
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.548+/-55.101  $\chi^2/\text{NDF}$ : 24.1/30

- 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: 191.664 $\pm$ 0.059  $\chi^2$ /NDF: 989787.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 173.953 $\pm$ 0.052  $\chi^2$ /NDF: 1652397.4/16

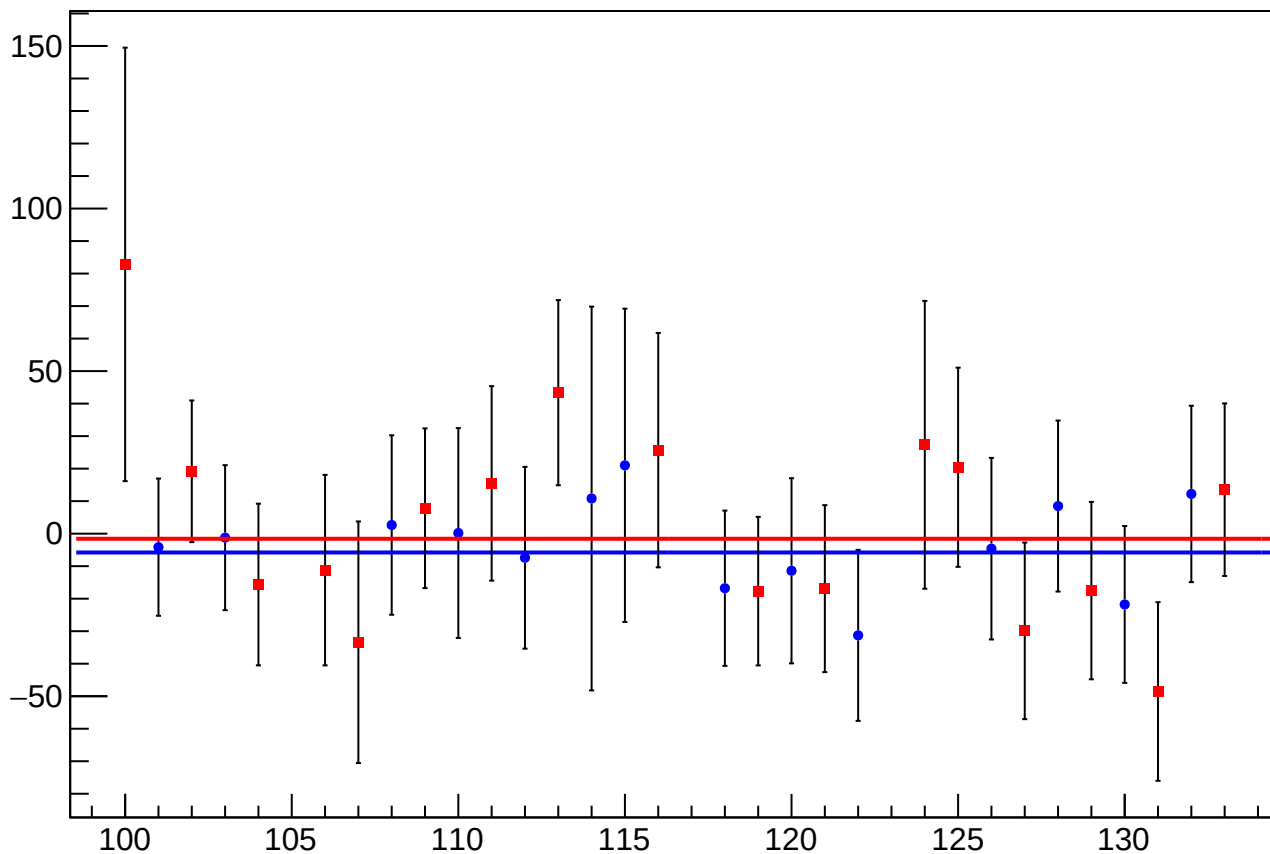
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 181.624 $\pm$ 0.039  $\chi^2$ /NDF: 2692918.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_mean vs Slug



Right In: -5.790 $\pm$ 7.301  $\chi^2$ /NDF: 2.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.570 $\pm$ 6.890  $\chi^2$ /NDF: 13.7/16

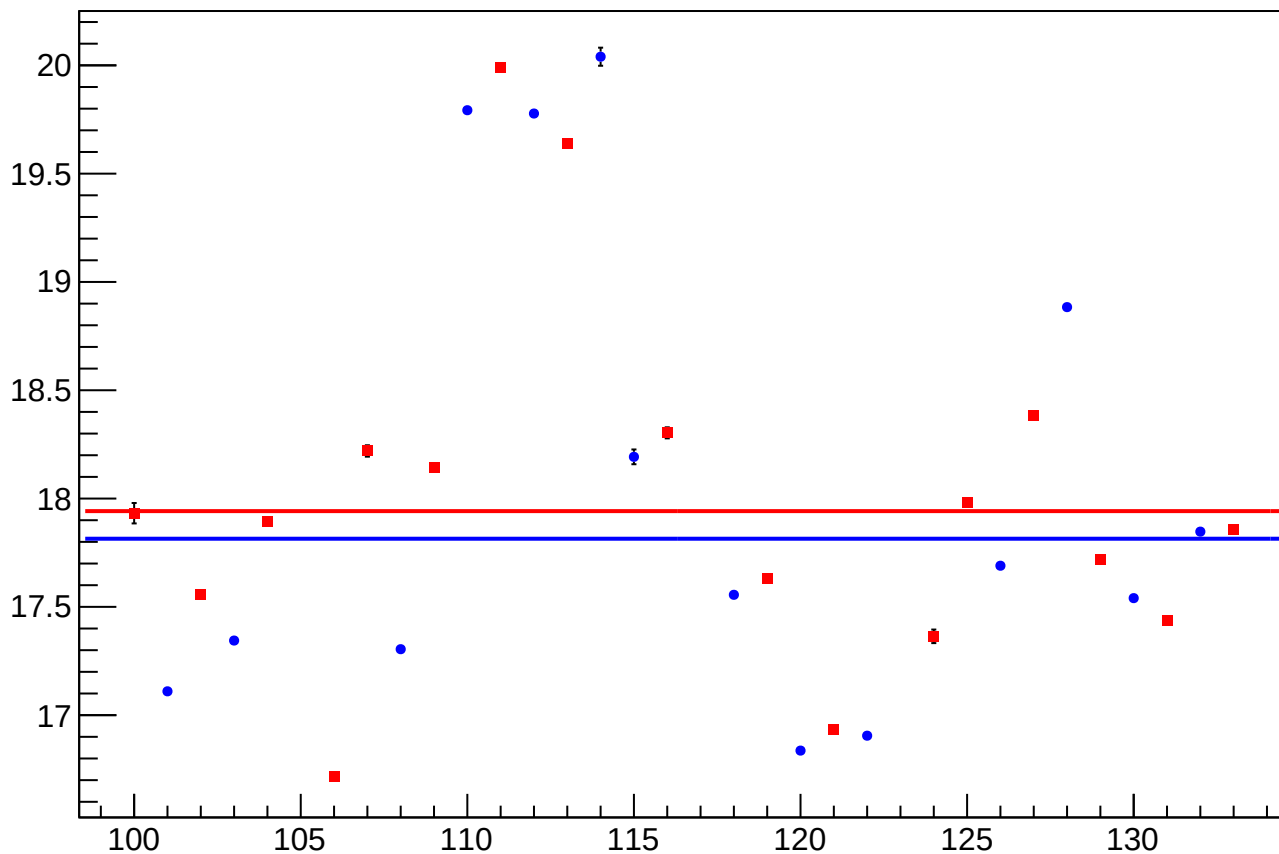
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.558 $\pm$ 5.011  $\chi^2$ /NDF: 16.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 17.815+/-0.005  $\chi^2/\text{NDF}$ : 32725.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.942+/-0.005  $\chi^2/\text{NDF}$ : 26192.3/16

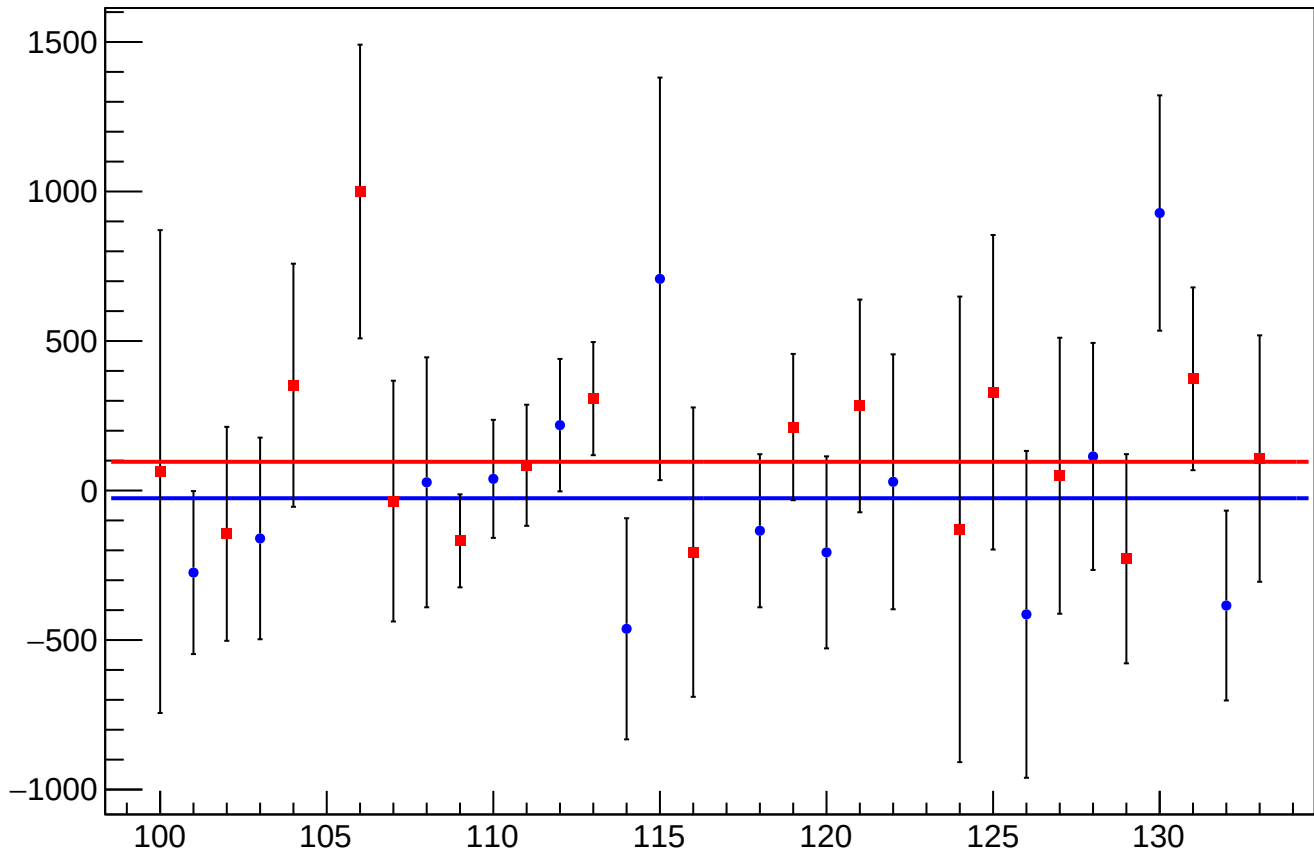
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.882+/-0.004  $\chi^2/\text{NDF}$ : 59240.2/30

- 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: -25.778+/-84.312  $\chi^2/\text{NDF}$ : 13.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 96.093+/-73.920  $\chi^2/\text{NDF}$ : 11.4/16

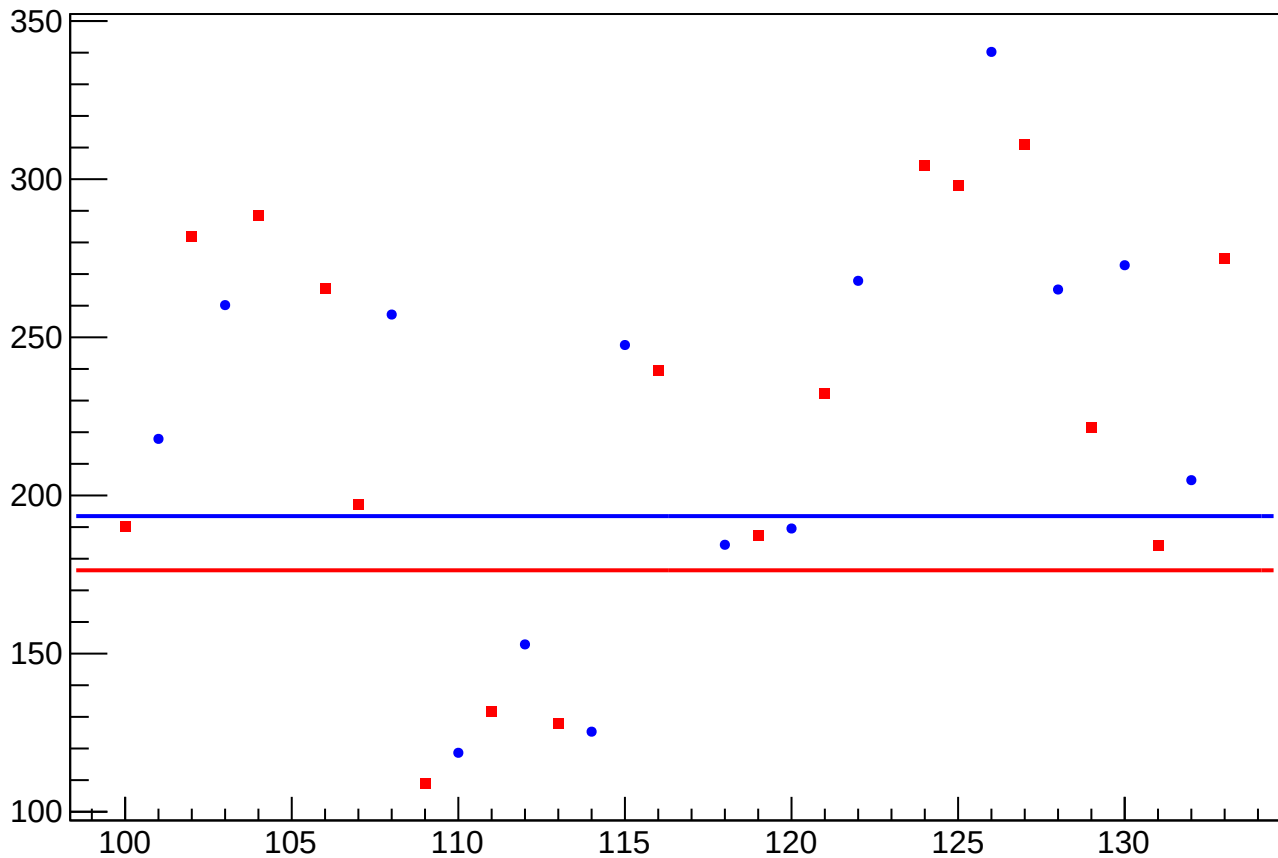
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.127+/-55.582  $\chi^2/\text{NDF}$ : 25.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_rms vs Slug



Right In: 193.474+/-0.060  $\chi^2/\text{NDF}$ : 939271.0/13

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

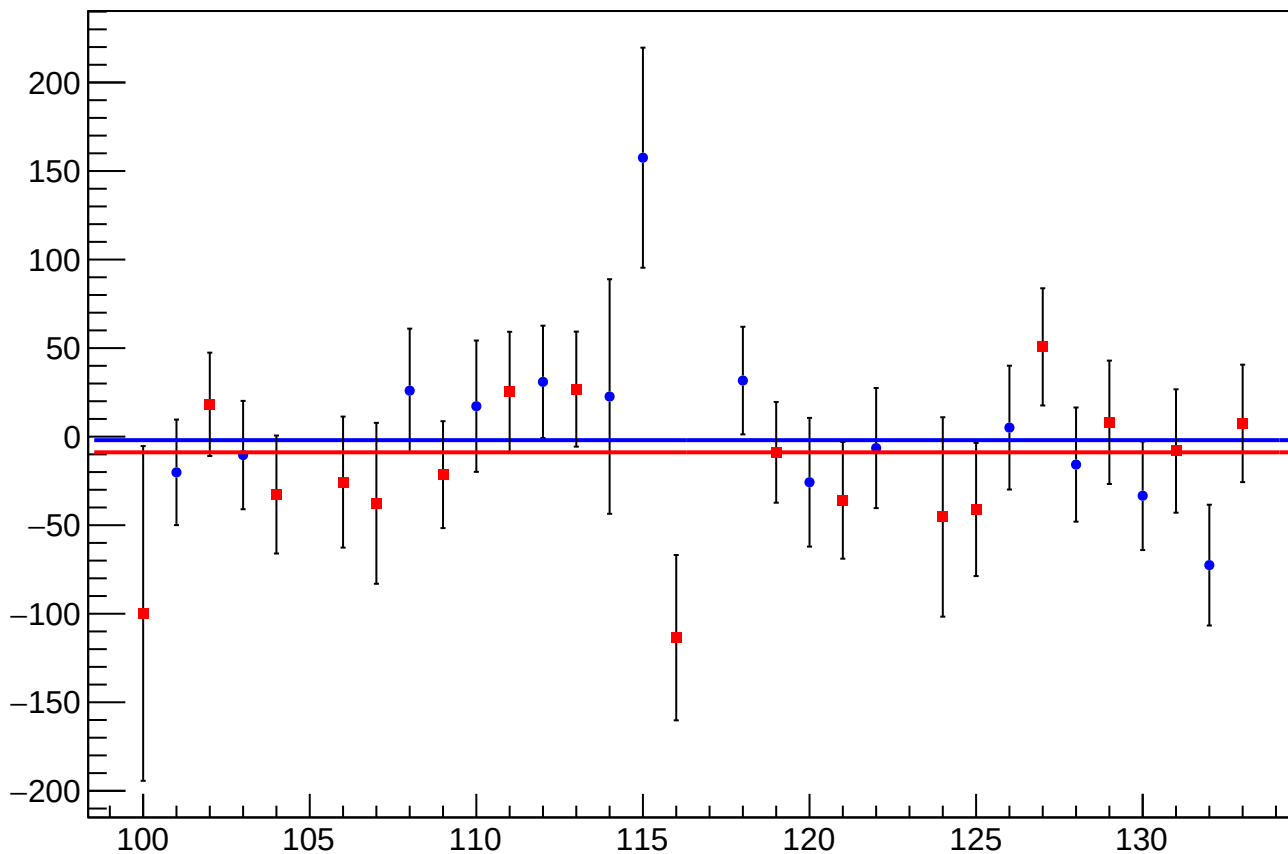
Right Out: 176.342+/-0.052  $\chi^2/\text{NDF}$ : 1569916.9/16

All: 183.788+/-0.039  $\chi^2/\text{NDF}$ : 2555878.2/30

- 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\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_mean vs Slug



Right In:  $-1.981 \pm 9.272$   $\chi^2/\text{NDF}$ : 16.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-8.851 \pm 8.632$   $\chi^2/\text{NDF}$ : 15.9/16

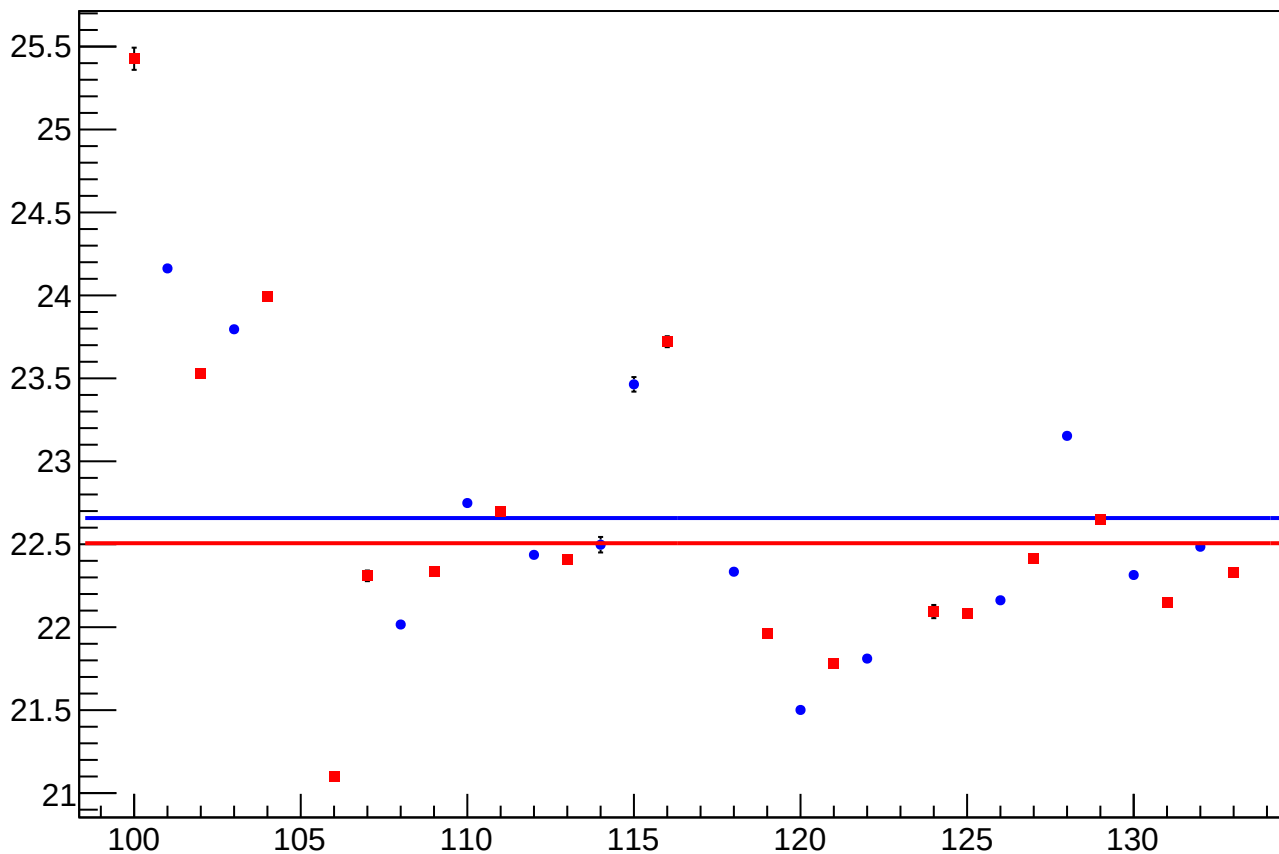
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.661 \pm 6.318$   $\chi^2/\text{NDF}$ : 32.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_rms vs Slug



Right In: 22.658+/-0.007  $\chi^2$ /NDF: 13675.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.506+/-0.006  $\chi^2$ /NDF: 15144.5/16

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

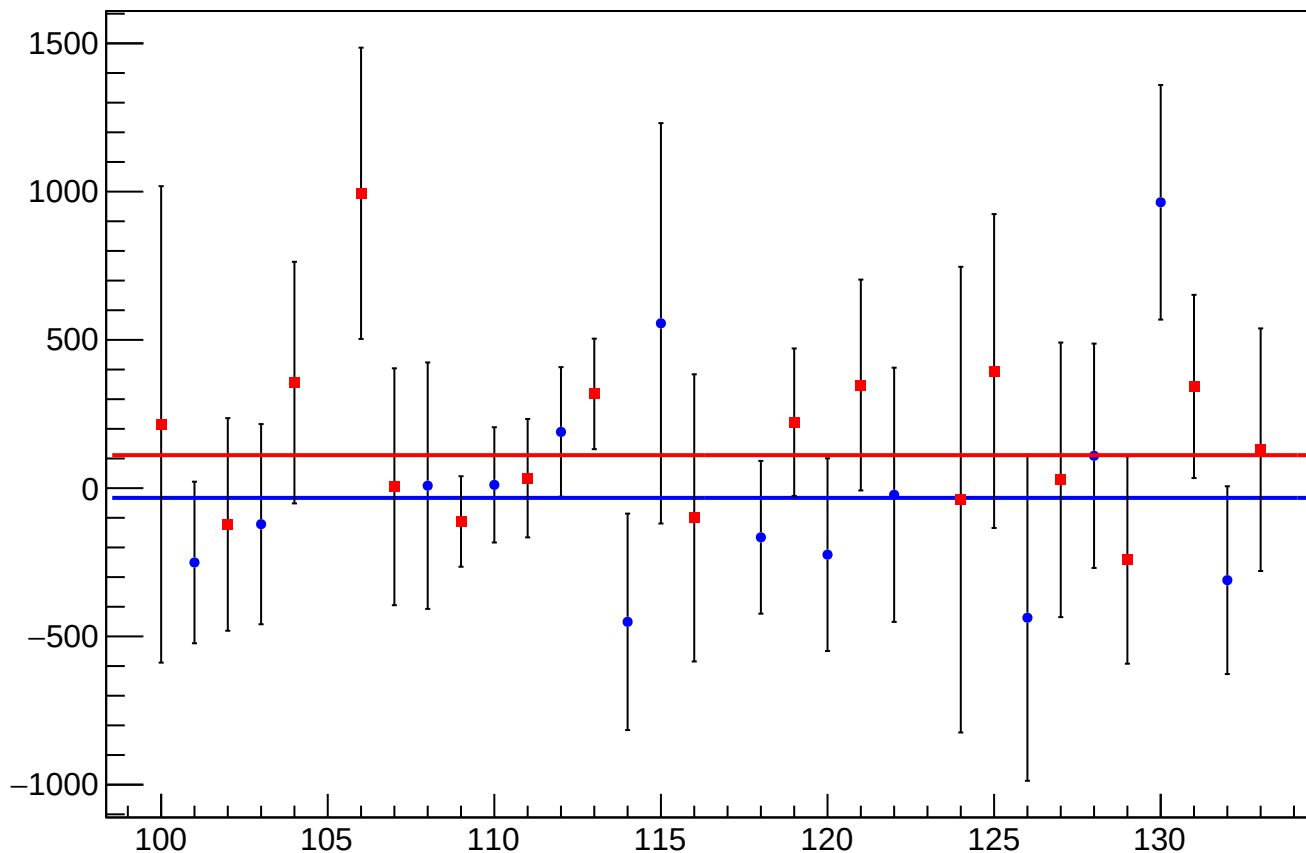
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 22.577+/-0.004  $\chi^2$ /NDF: 29107.1/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_mean vs Slug



Right In: -32.841+/-83.978  $\chi^2/\text{NDF}$ : 12.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 111.293+/-73.450  $\chi^2/\text{NDF}$ : 10.4/16

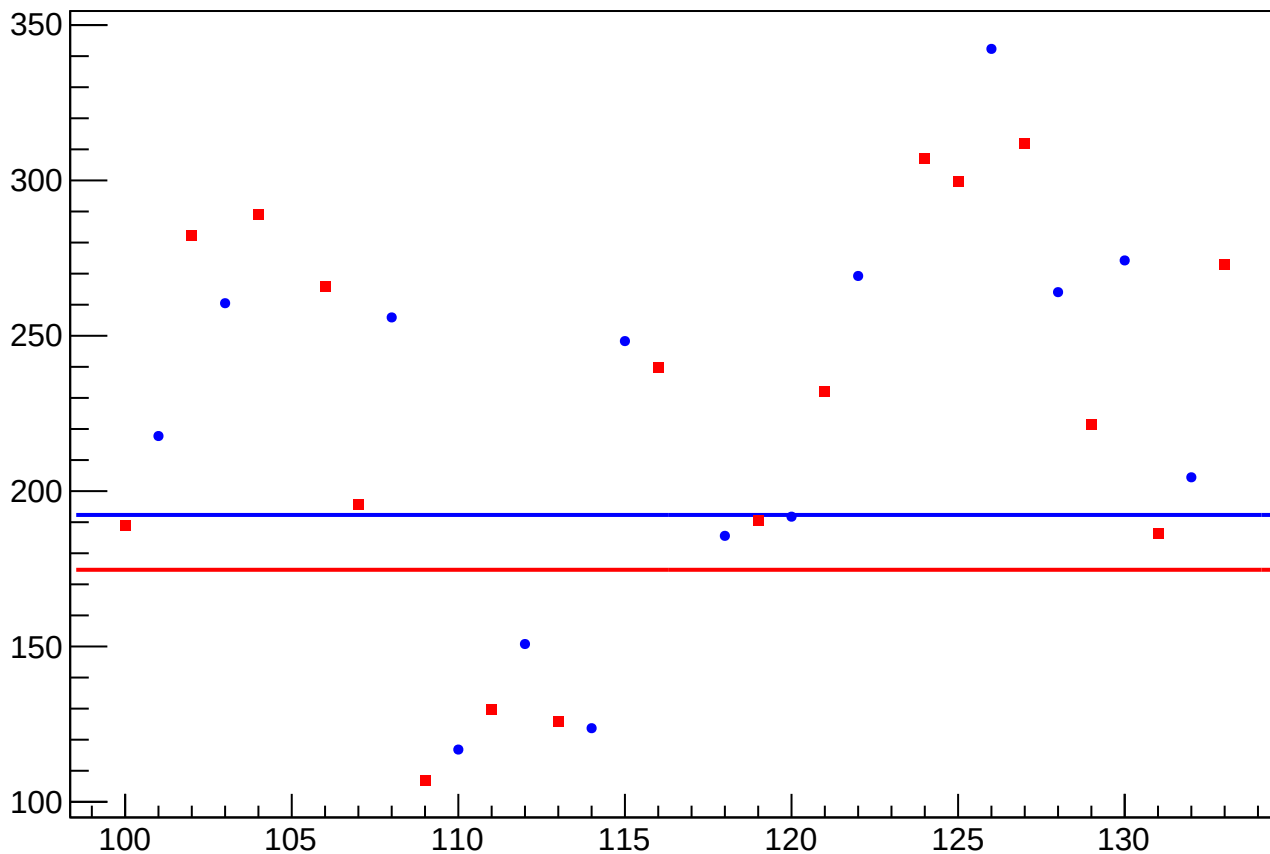
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.822+/-55.287  $\chi^2/\text{NDF}$ : 24.4/30

- 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: 192.336+/-0.059  $\chi^2/\text{NDF}$ : 979378.5/13

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

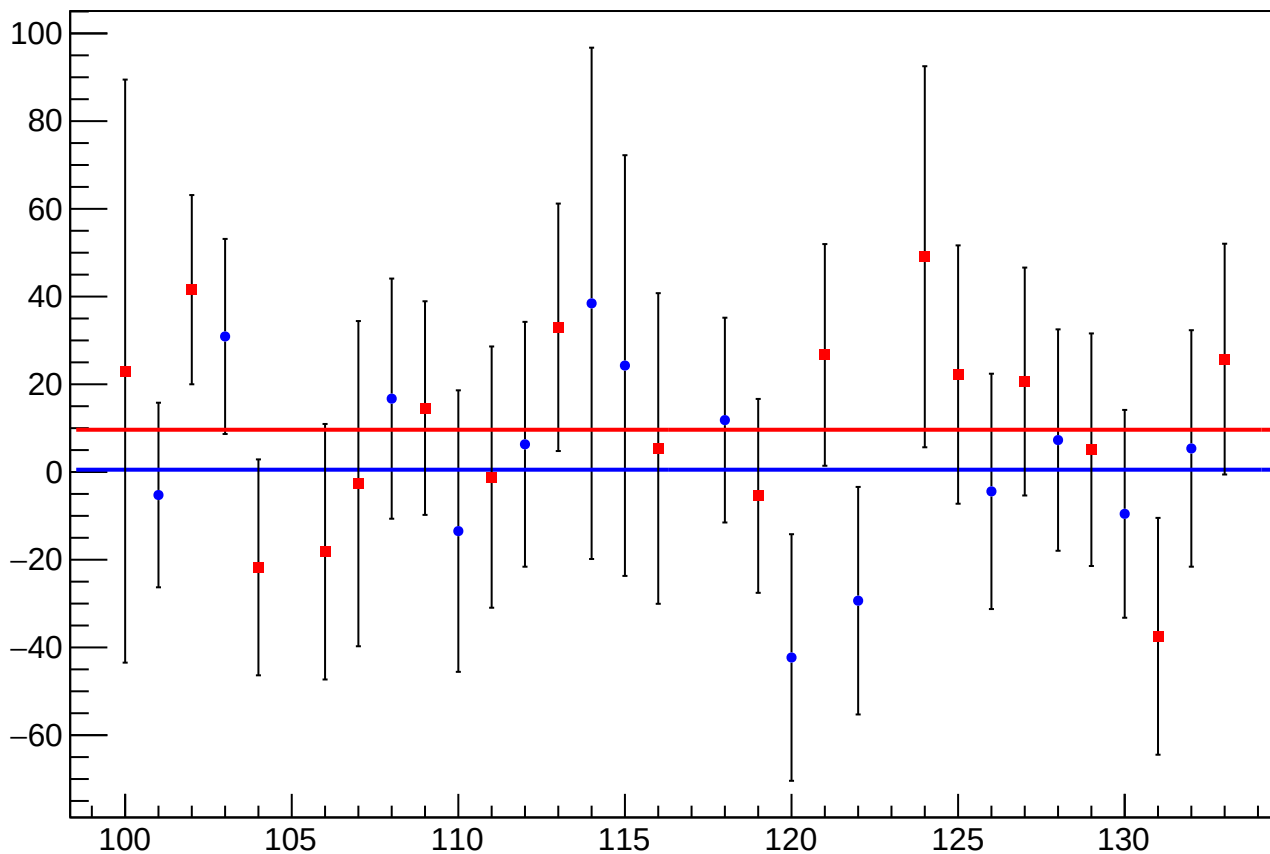
Right Out: 174.683+/-0.052  $\chi^2/\text{NDF}$ : 1639817.8/16

All: 182.334+/-0.039  $\chi^2/\text{NDF}$ : 2669269.1/30

- 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\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_mean vs Slug



Right In: 0.524+/-7.198  $\chi^2/\text{NDF}$ : 7.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9.635+/-6.771  $\chi^2/\text{NDF}$ : 11.3/16

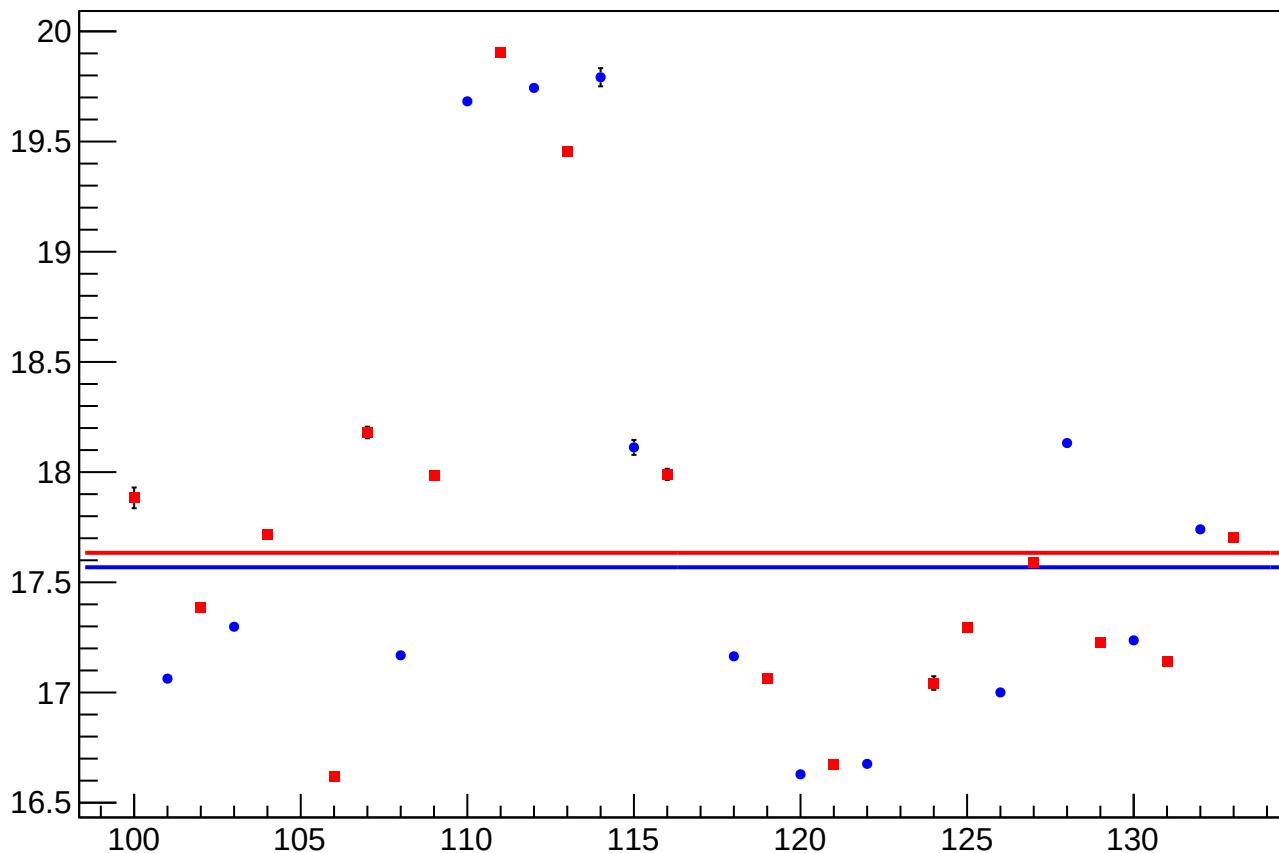
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5.358+/-4.932  $\chi^2/\text{NDF}$ : 19.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_rms vs Slug



Right In: 17.568+/-0.005  $\chi^2/\text{NDF}$ : 33427.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.634+/-0.005  $\chi^2/\text{NDF}$ : 29750.5/16

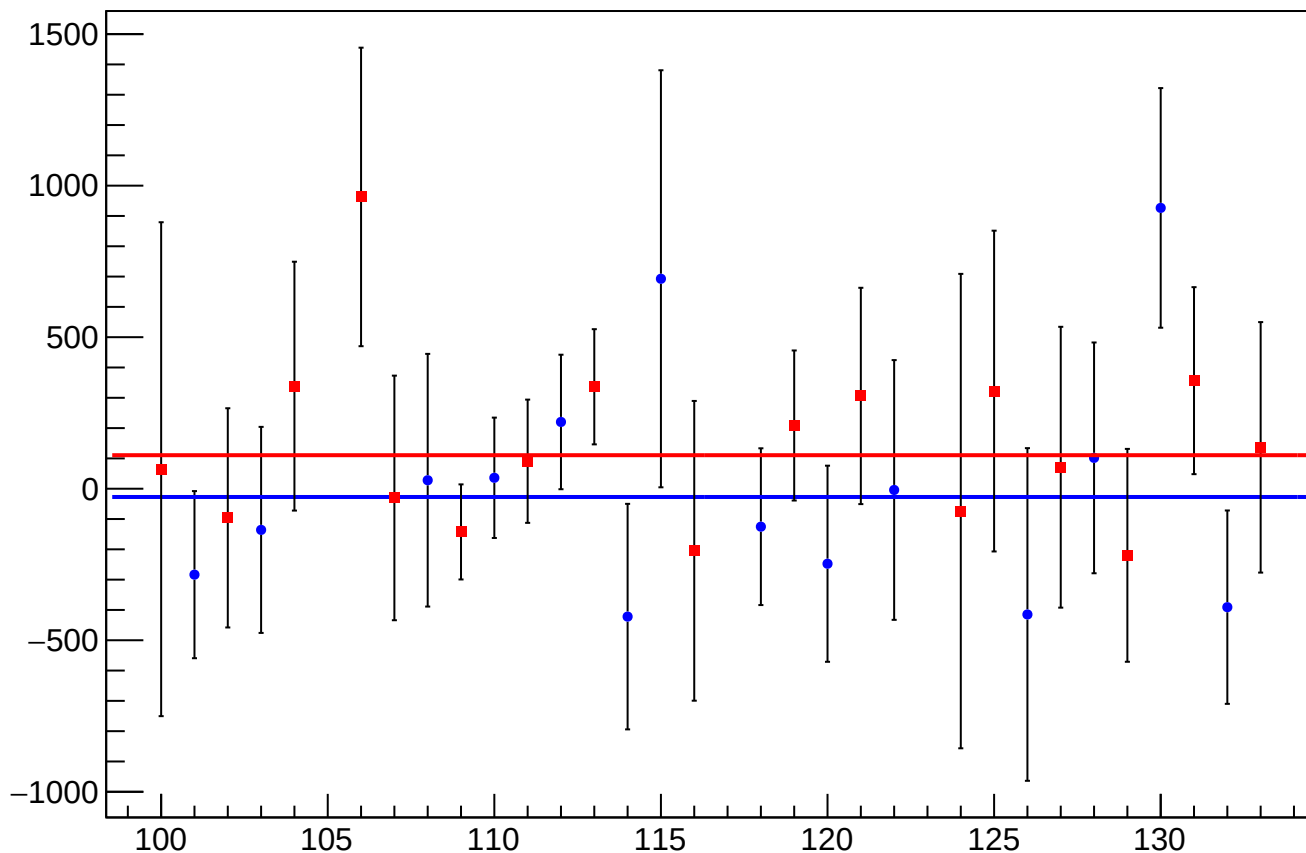
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.603+/-0.003  $\chi^2/\text{NDF}$ : 63265.7/30

- 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: -27.274+/-84.833  $\chi^2/\text{NDF}$ : 12.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.614+/-74.442  $\chi^2/\text{NDF}$ : 10.4/16

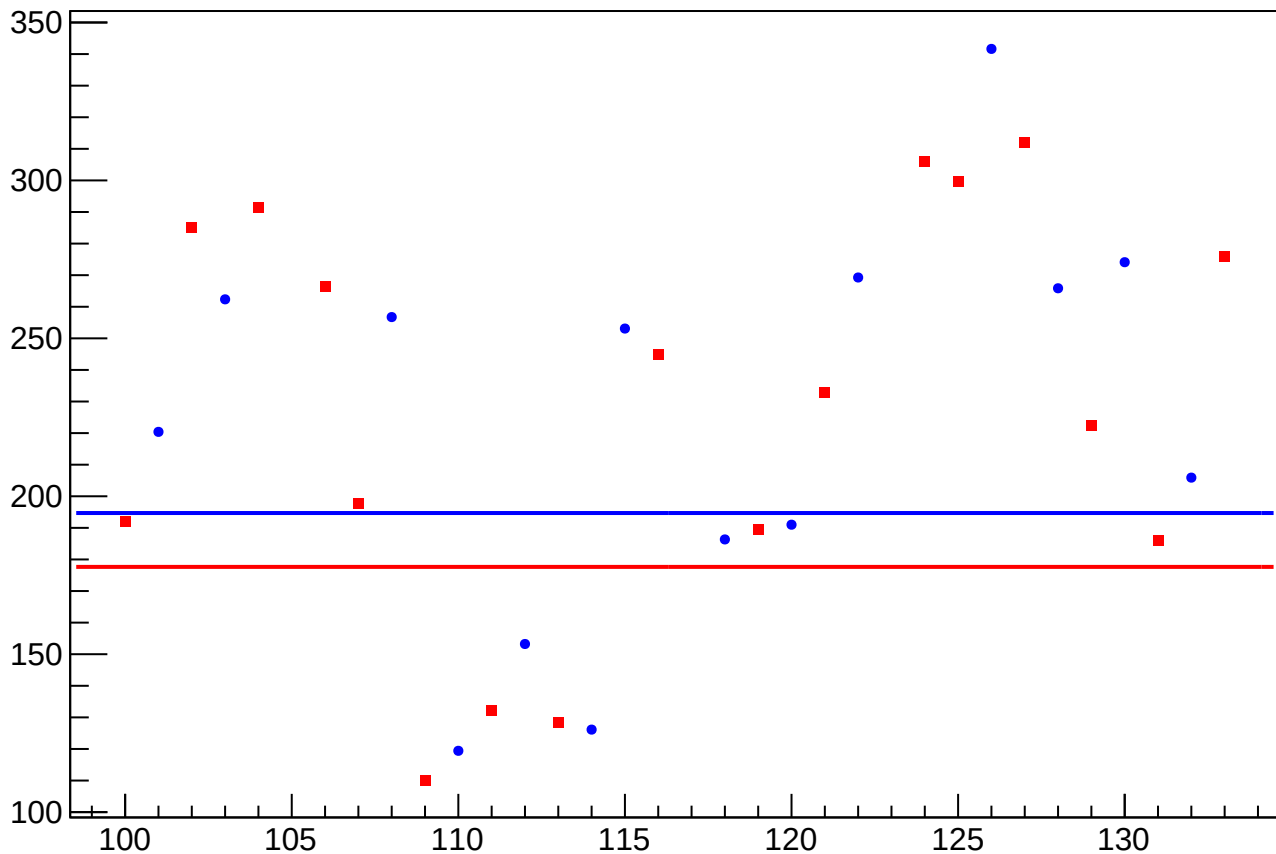
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 50.627+/-55.954  $\chi^2/\text{NDF}$ : 24.8/30

- 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: 194.698+/-0.060  $\chi^2/\text{NDF}$ : 939772.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 177.644+/-0.053  $\chi^2/\text{NDF}$ : 1570563.8/16

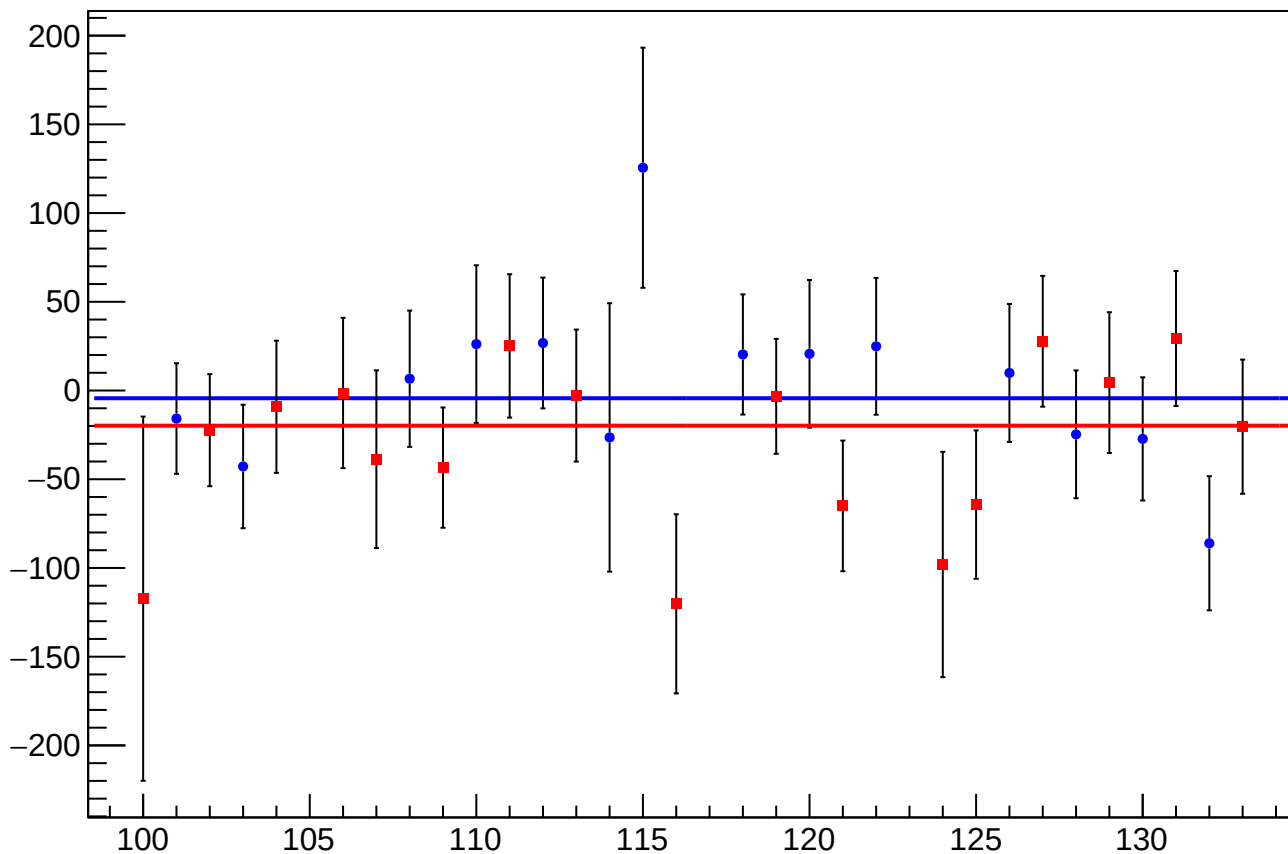
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 185.063+/-0.040  $\chi^2/\text{NDF}$ : 2555998.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug



Right In:  $-4.350 \pm 10.394$   $\chi^2/\text{NDF}: 13.4/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-19.814 \pm 9.691$   $\chi^2/\text{NDF}: 15.3/16$

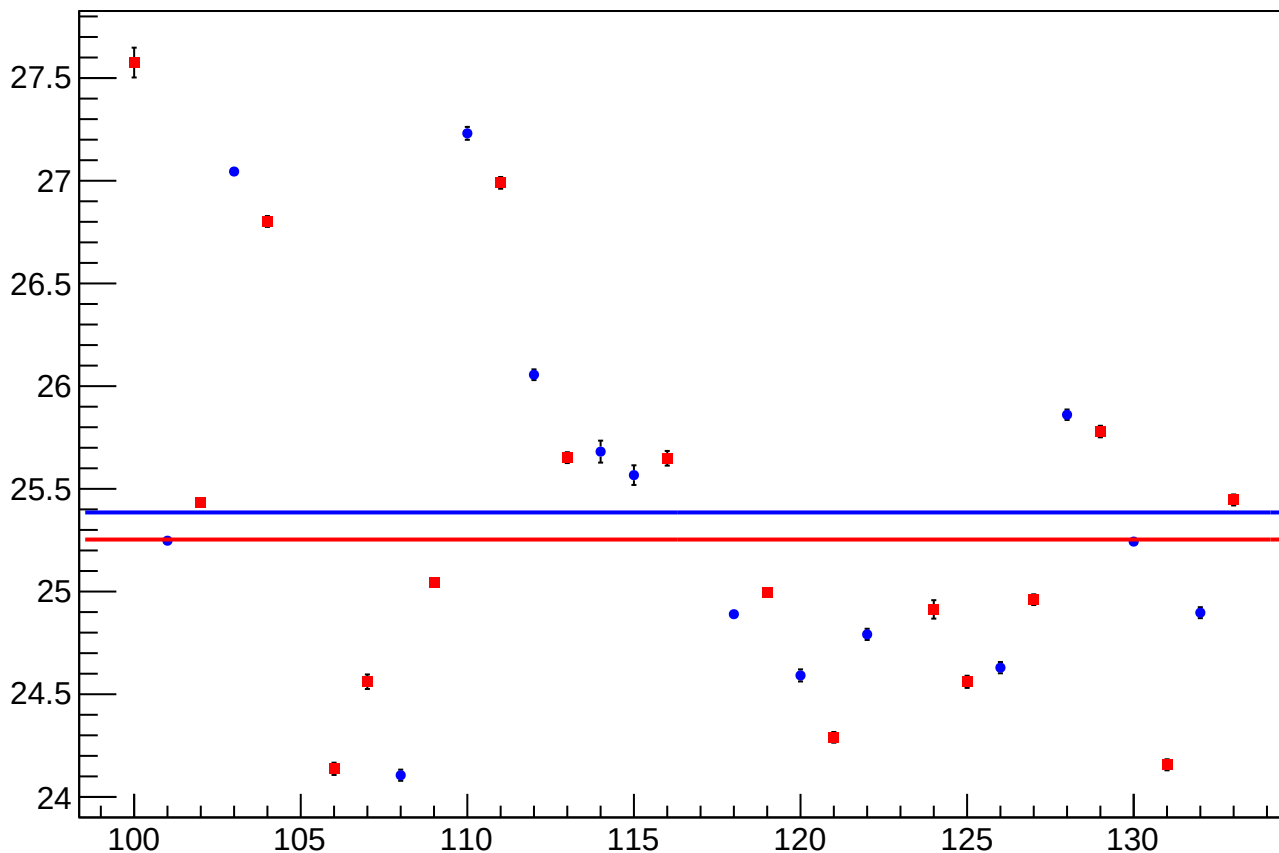
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-12.623 \pm 7.088$   $\chi^2/\text{NDF}: 29.9/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 25.385 $\pm$ 0.007  $\chi^2$ /NDF: 14068.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 25.253 $\pm$ 0.007  $\chi^2$ /NDF: 14733.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

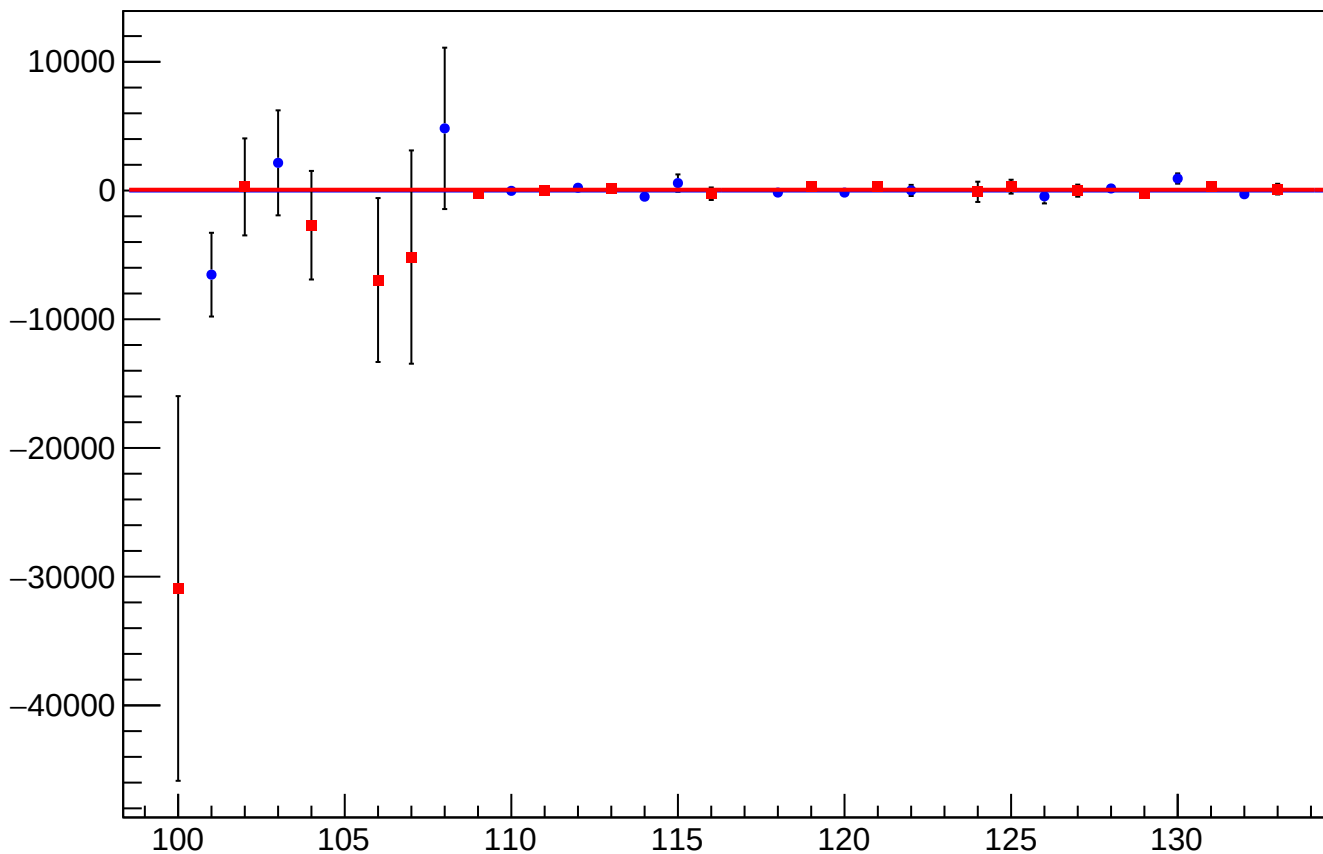
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.315 $\pm$ 0.005  $\chi^2$ /NDF: 28974.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_mean vs Slug



Right In: 1.434+/-94.265     $\chi^2/\text{NDF}$ : 16.1/13

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 63.493+/-85.213     $\chi^2/\text{NDF}$ : 11.9/16

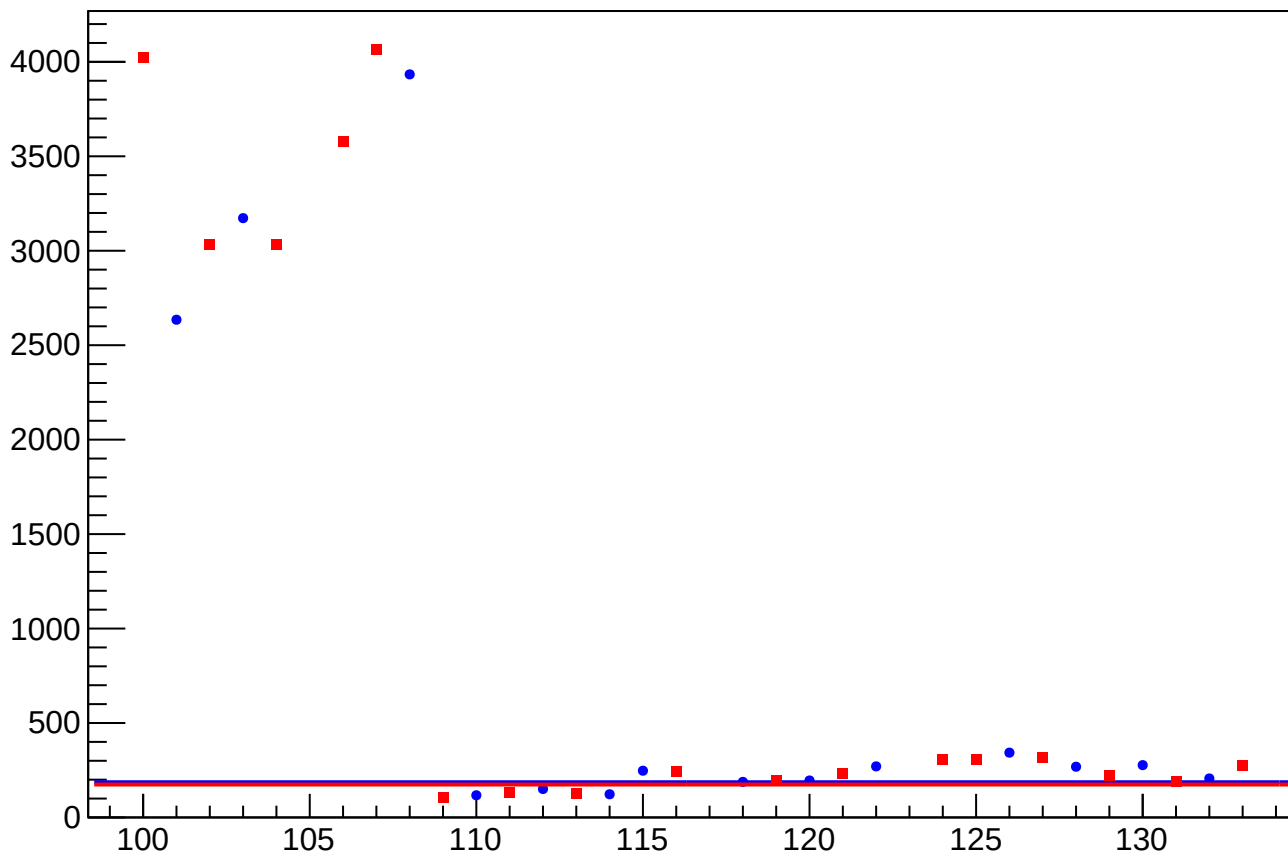
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 35.585+/-63.213     $\chi^2/\text{NDF}$ : 28.2/30

- 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: 186.367 $\pm$ 0.067  $\chi^2$ /NDF: 3741786.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 174.375 $\pm$ 0.060  $\chi^2$ /NDF: 4286388.0/16

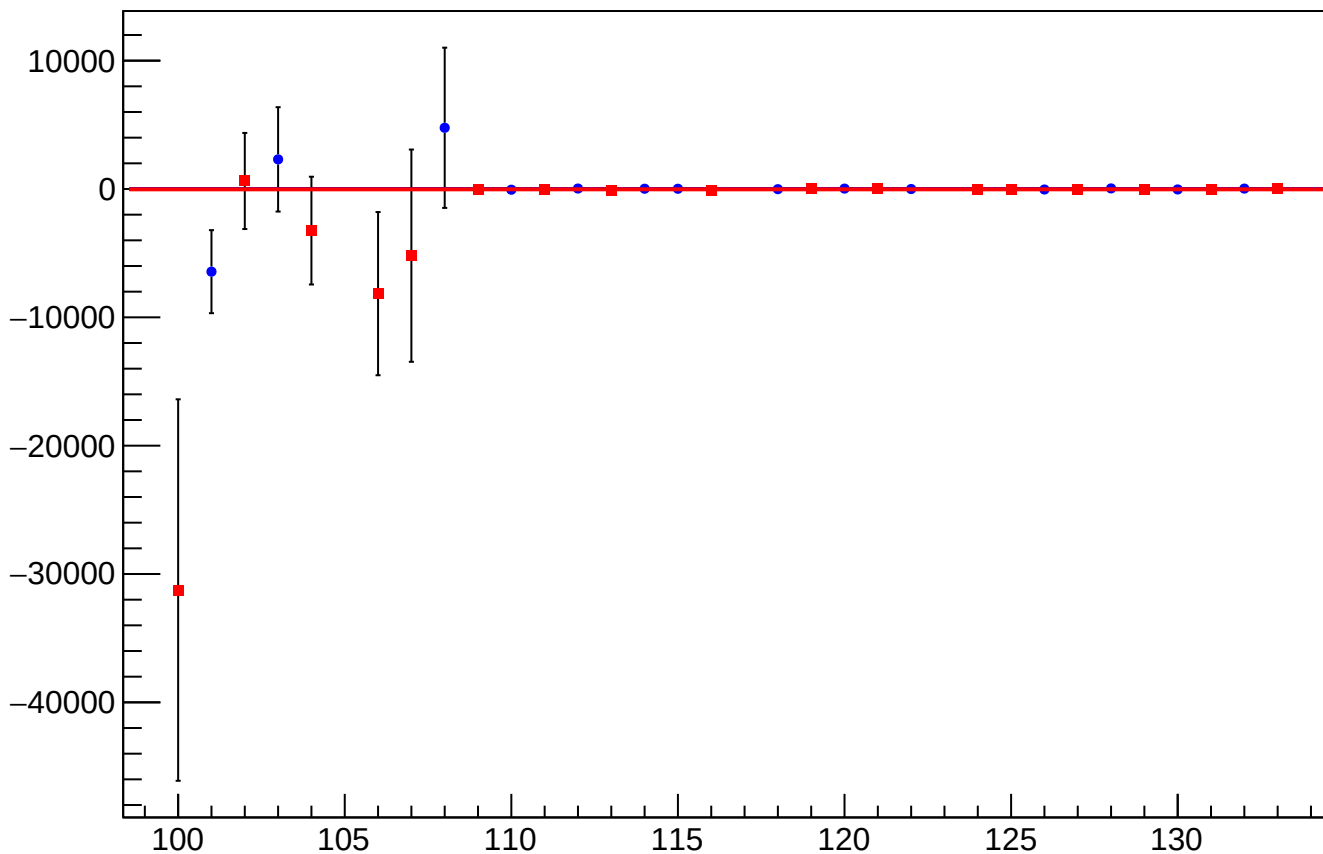
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 179.768 $\pm$ 0.045  $\chi^2$ /NDF: 8045987.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_mean vs Slug



Right In: 0.594+/-13.347  $\chi^2$ /NDF: 11.5/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -24.974+/-12.739  $\chi^2$ /NDF: 21.5/16

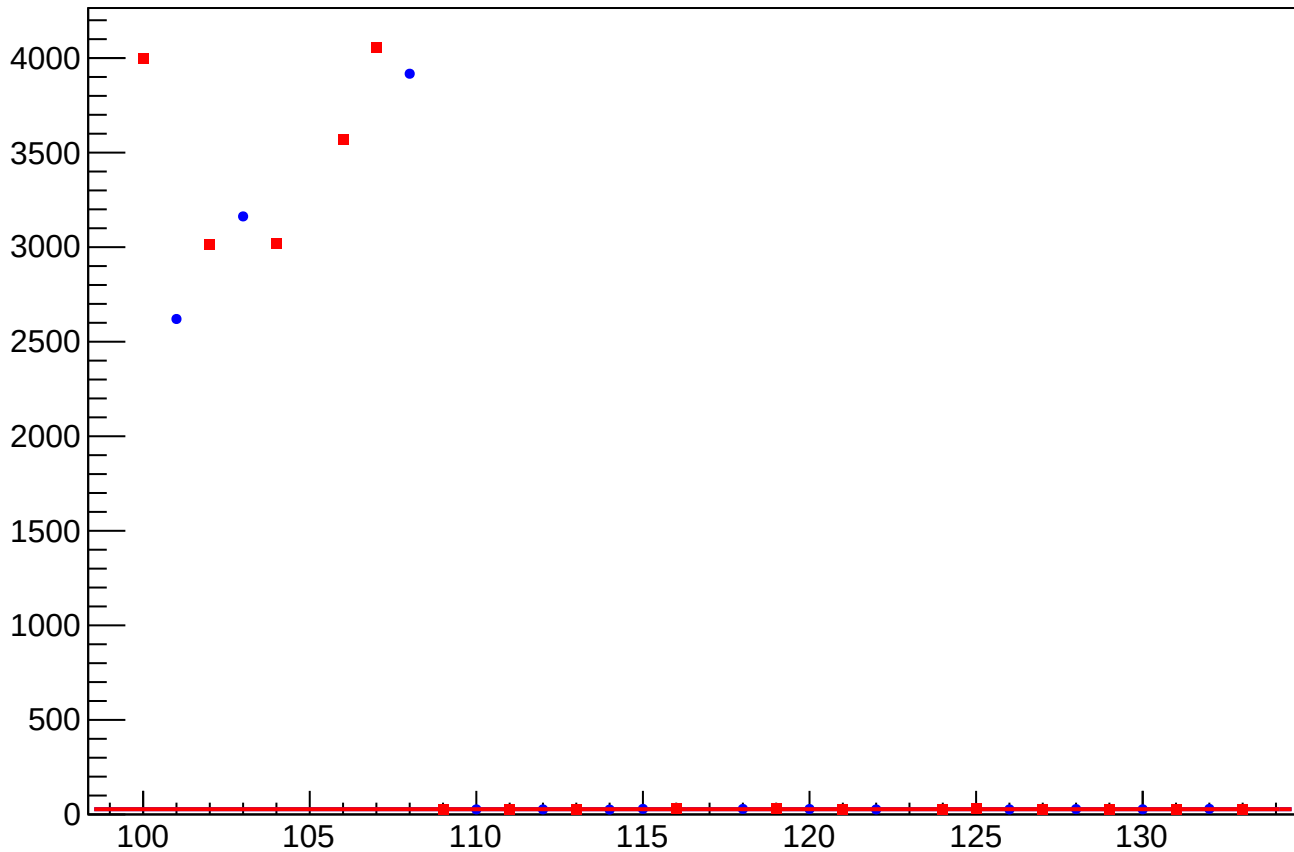
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -12.785+/-9.216  $\chi^2$ /NDF: 34.9/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_rms vs Slug



Right In: 27.775+/-0.009  $\chi^2/\text{NDF}$ : 3264005.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27.707+/-0.009  $\chi^2/\text{NDF}$ : 3552465.2/16

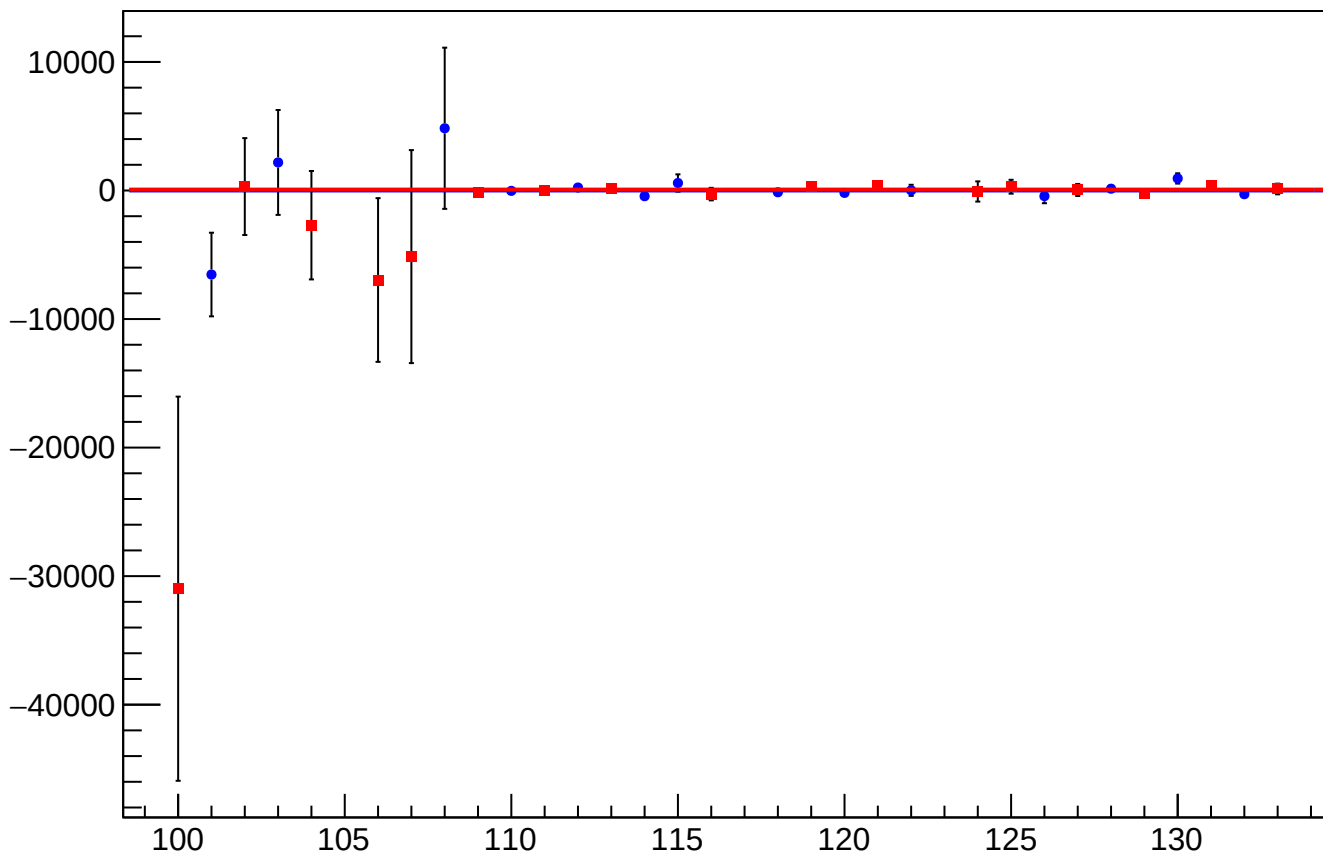
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.739+/-0.007  $\chi^2/\text{NDF}$ : 6816498.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_mean vs Slug



Right In: 5.153+/-93.981  $\chi^2$ /NDF: 16.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 69.609+/-84.924  $\chi^2$ /NDF: 12.0/16

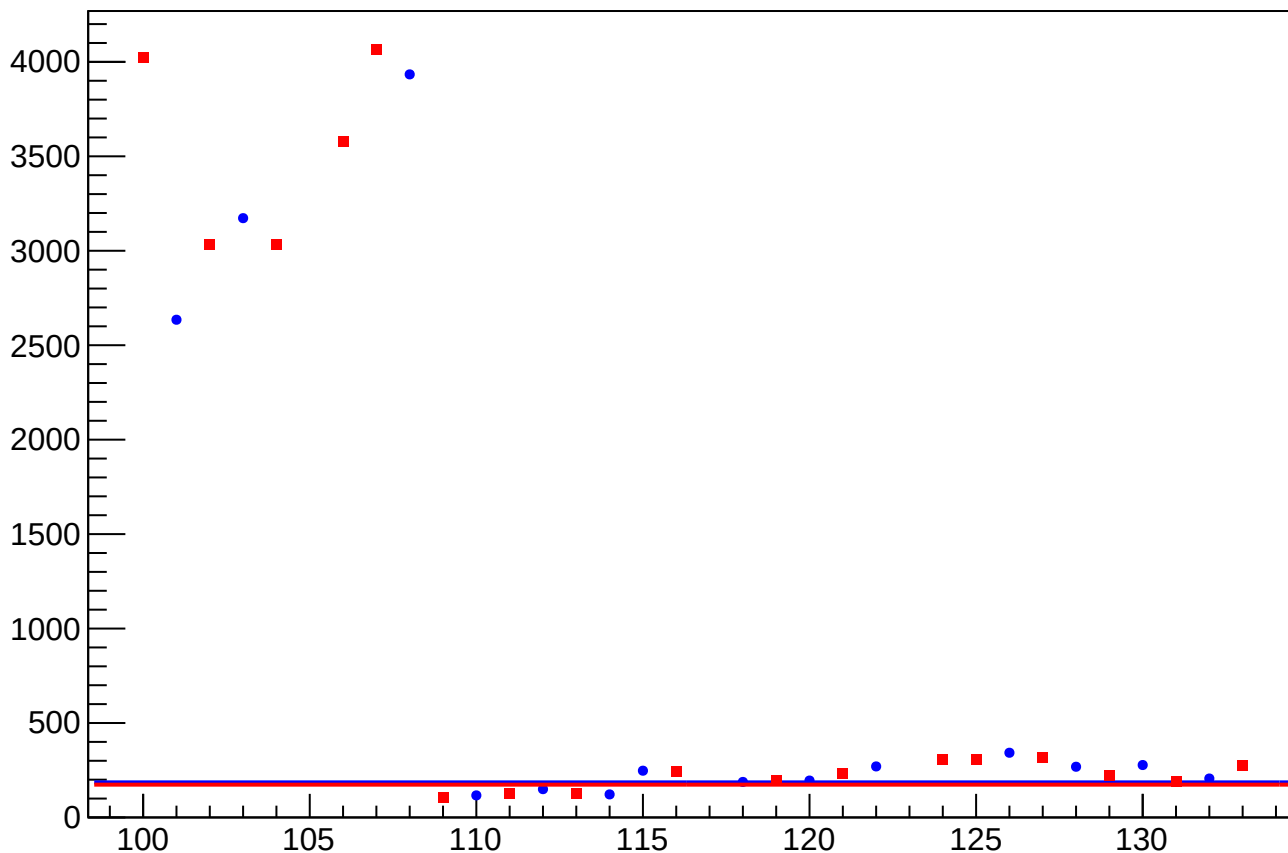
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 40.636+/-63.009  $\chi^2$ /NDF: 28.3/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_rms vs Slug



Right In: 185.676 $\pm$ 0.066  $\chi^2$ /NDF: 3753244.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 173.650 $\pm$ 0.060  $\chi^2$ /NDF: 4298764.6/16

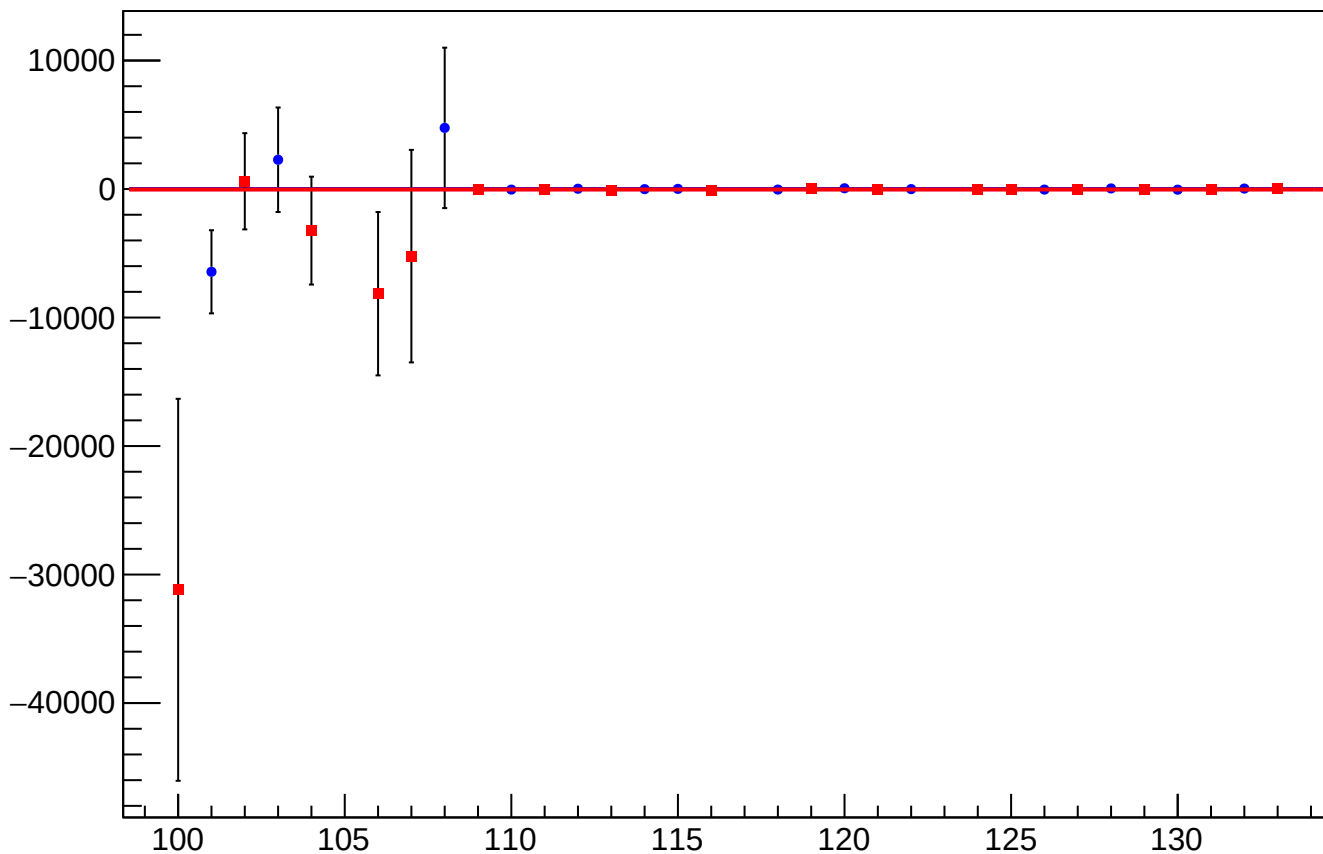
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 179.056 $\pm$ 0.045  $\chi^2$ /NDF: 8070035.8/30

- 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: -3.431+/-13.436  $\chi^2/\text{NDF}$ : 13.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -36.141+/-12.854  $\chi^2/\text{NDF}$ : 17.8/16

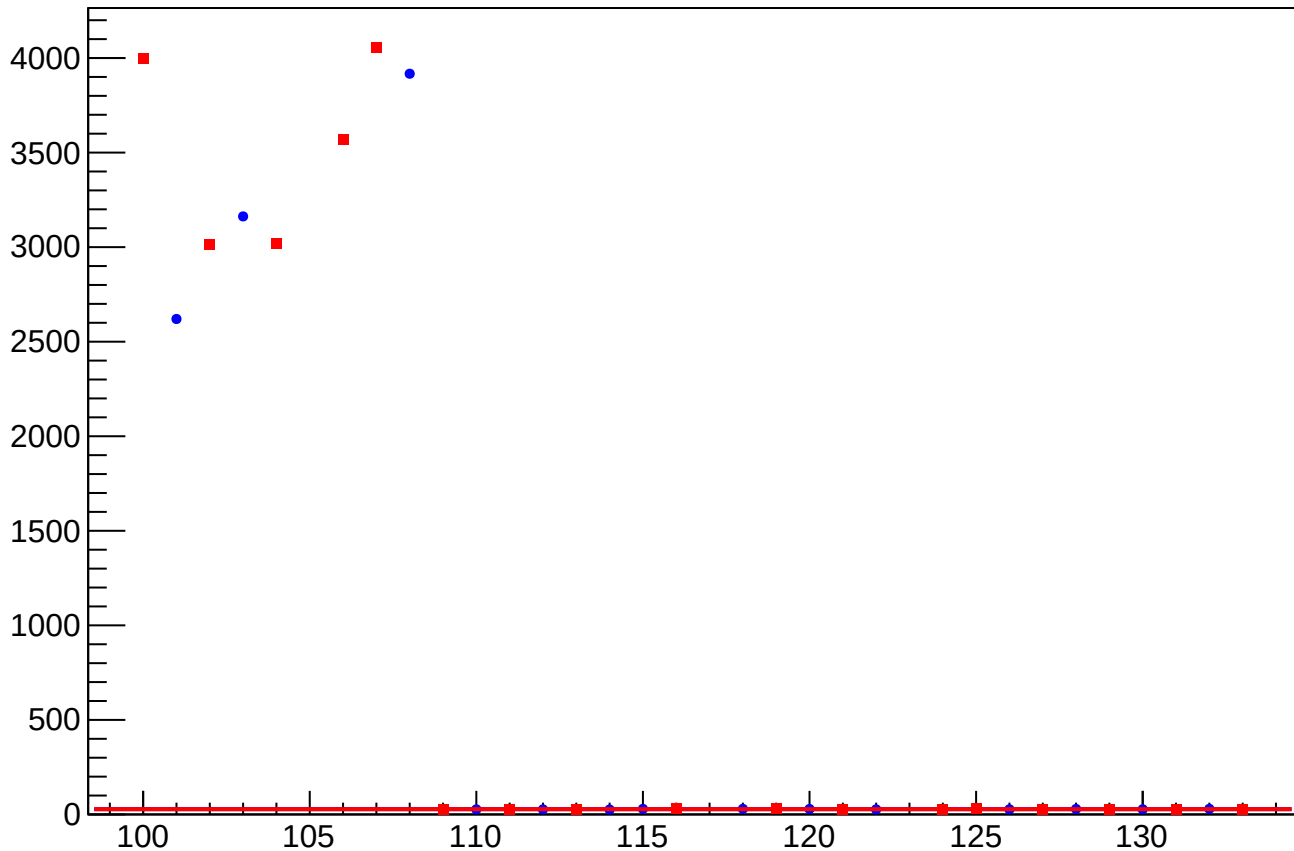
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -20.510+/-9.288  $\chi^2/\text{NDF}$ : 34.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 27.956 $\pm$ 0.010  $\chi^2$ /NDF: 3264492.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27.949 $\pm$ 0.009  $\chi^2$ /NDF: 3555217.2/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

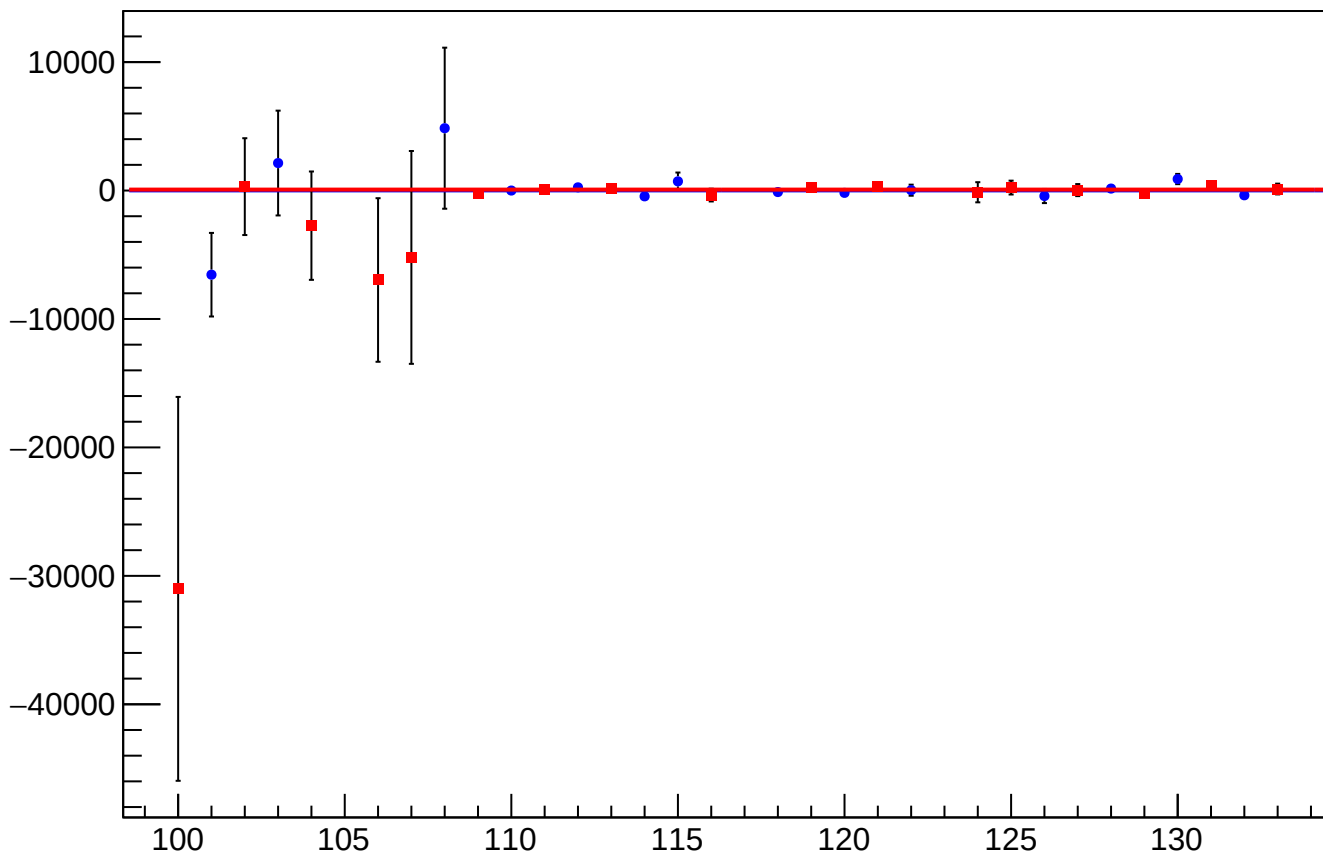
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.952 $\pm$ 0.007  $\chi^2$ /NDF: 6819709.7/30

- 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: 12.042+/-95.156  $\chi^2/\text{NDF}$ : 16.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 73.334+/-86.112  $\chi^2/\text{NDF}$ : 11.8/16

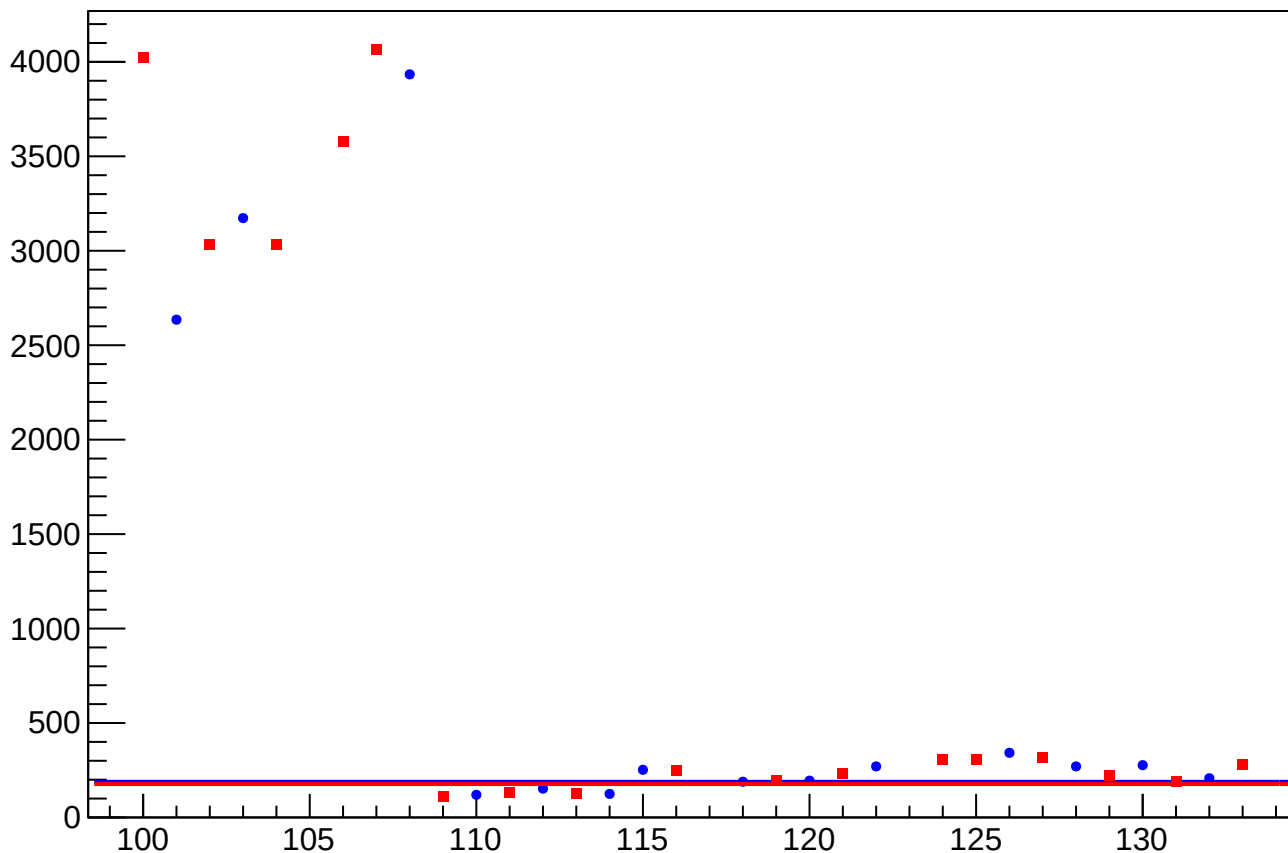
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 45.738+/-63.849  $\chi^2/\text{NDF}$ : 28.4/30

- 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: 188.590+/-0.067  $\chi^2/\text{NDF}$ : 3706202.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 176.718+/-0.061  $\chi^2/\text{NDF}$ : 4242700.8/16

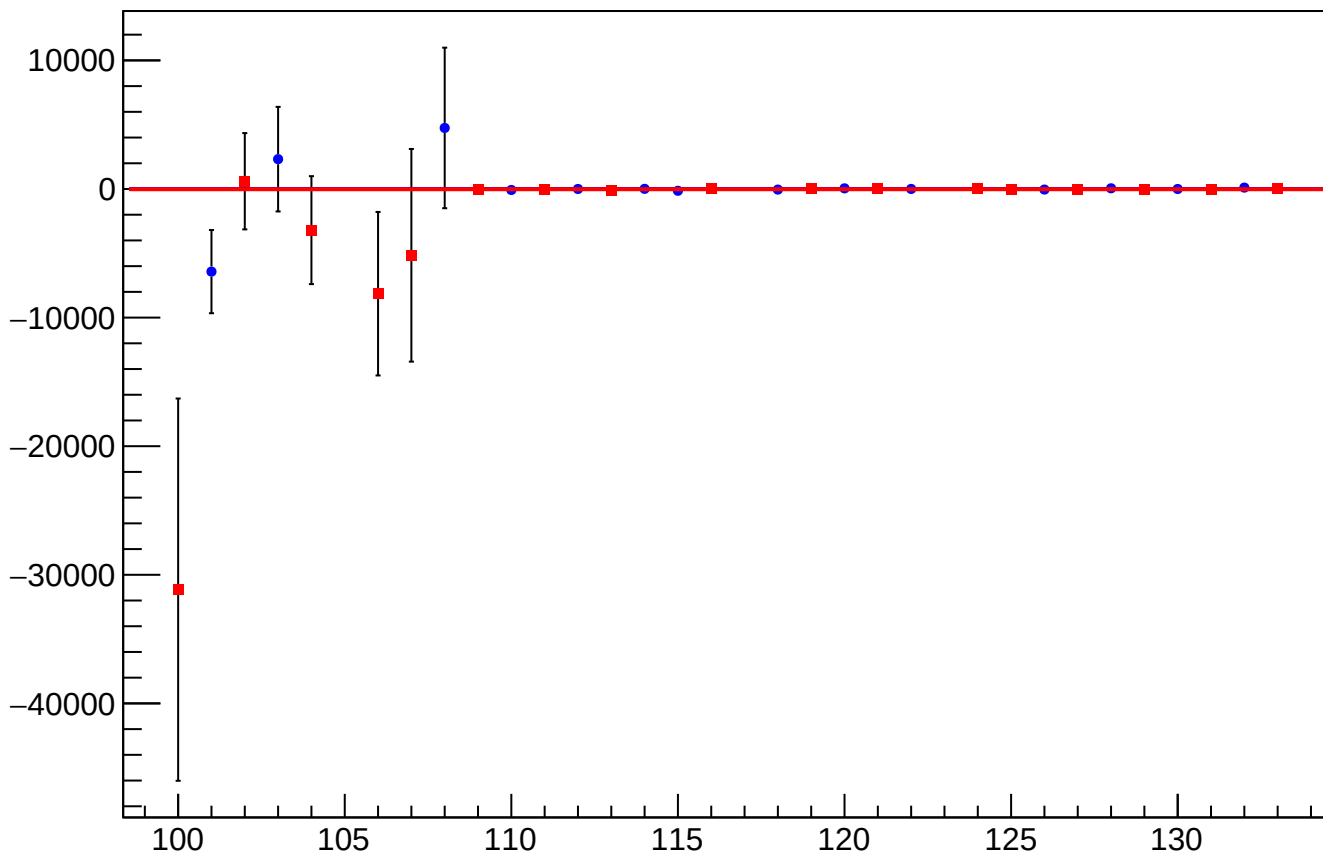
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 182.063+/-0.045  $\chi^2/\text{NDF}$ : 7966017.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_mean vs Slug



Right In: -0.149+/-16.341  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -17.374+/-15.534  $\chi^2/\text{NDF}$ : 21.6/16

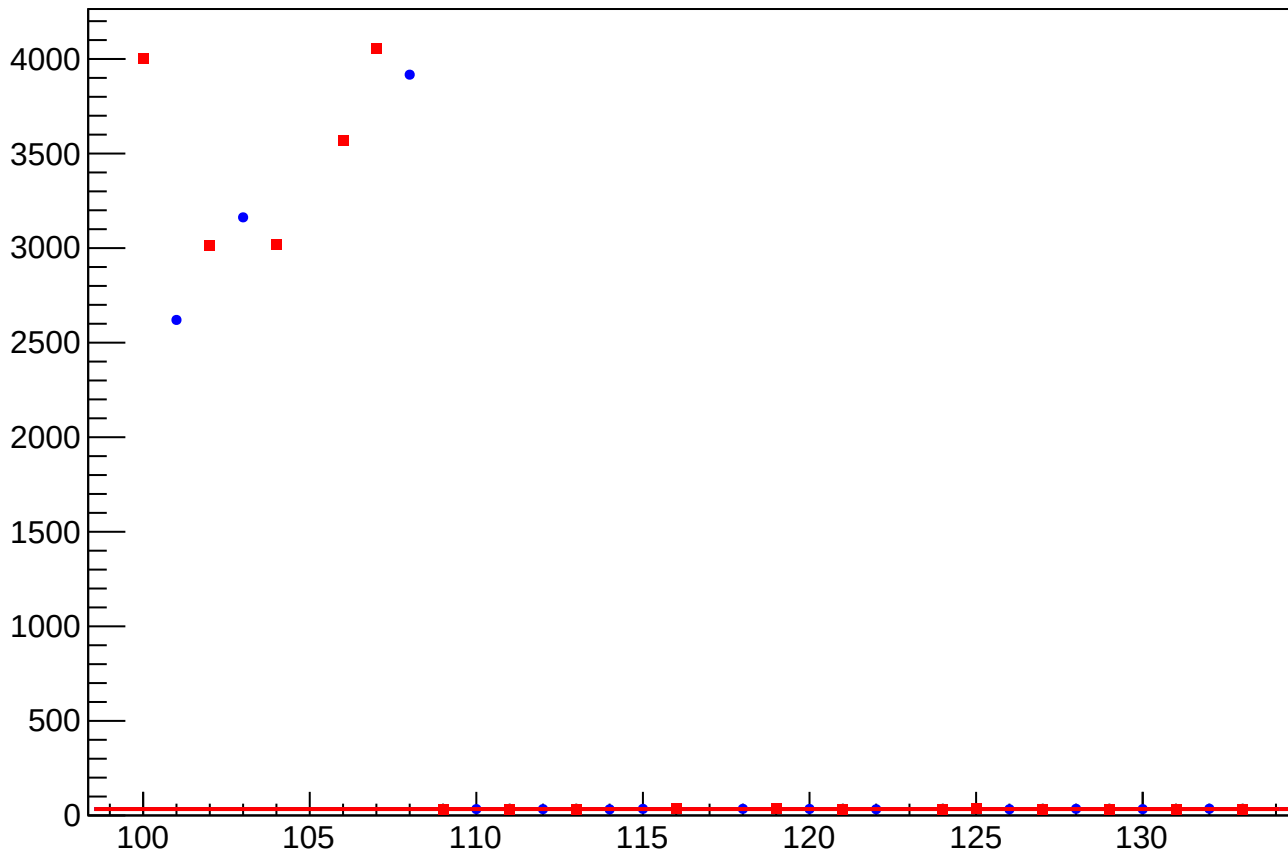
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.197+/-11.259  $\chi^2/\text{NDF}$ : 38.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_rms vs Slug



Right In: 34.074 $\pm$ 0.012  $\chi^2$ /NDF: 3242826.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 33.852 $\pm$ 0.011  $\chi^2$ /NDF: 3525363.3/16

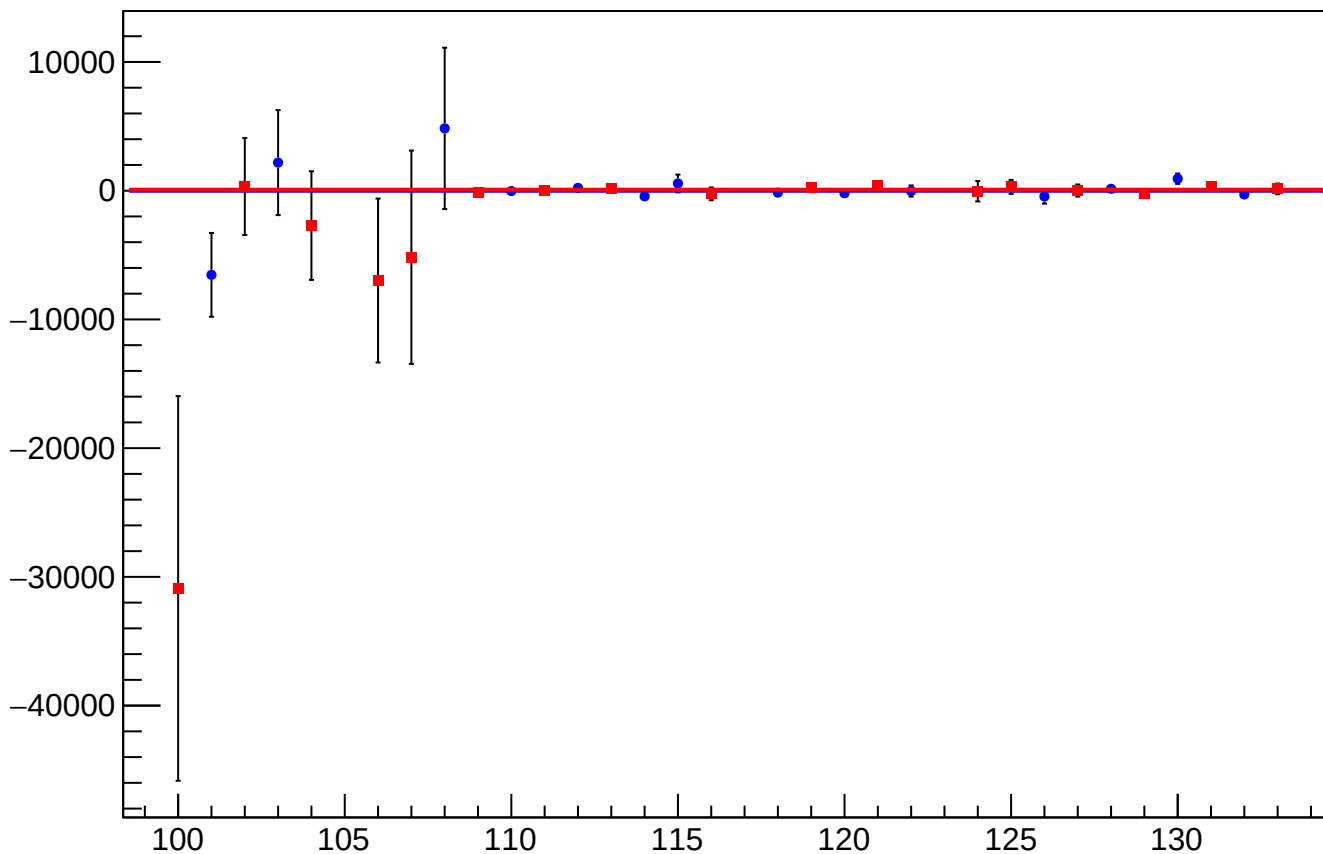
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.957 $\pm$ 0.008  $\chi^2$ /NDF: 6768383.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_mean vs Slug



Right In: -2.001+/-94.690  $\chi^2/\text{NDF}$ : 15.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 77.981+/-85.650  $\chi^2/\text{NDF}$ : 11.6/16

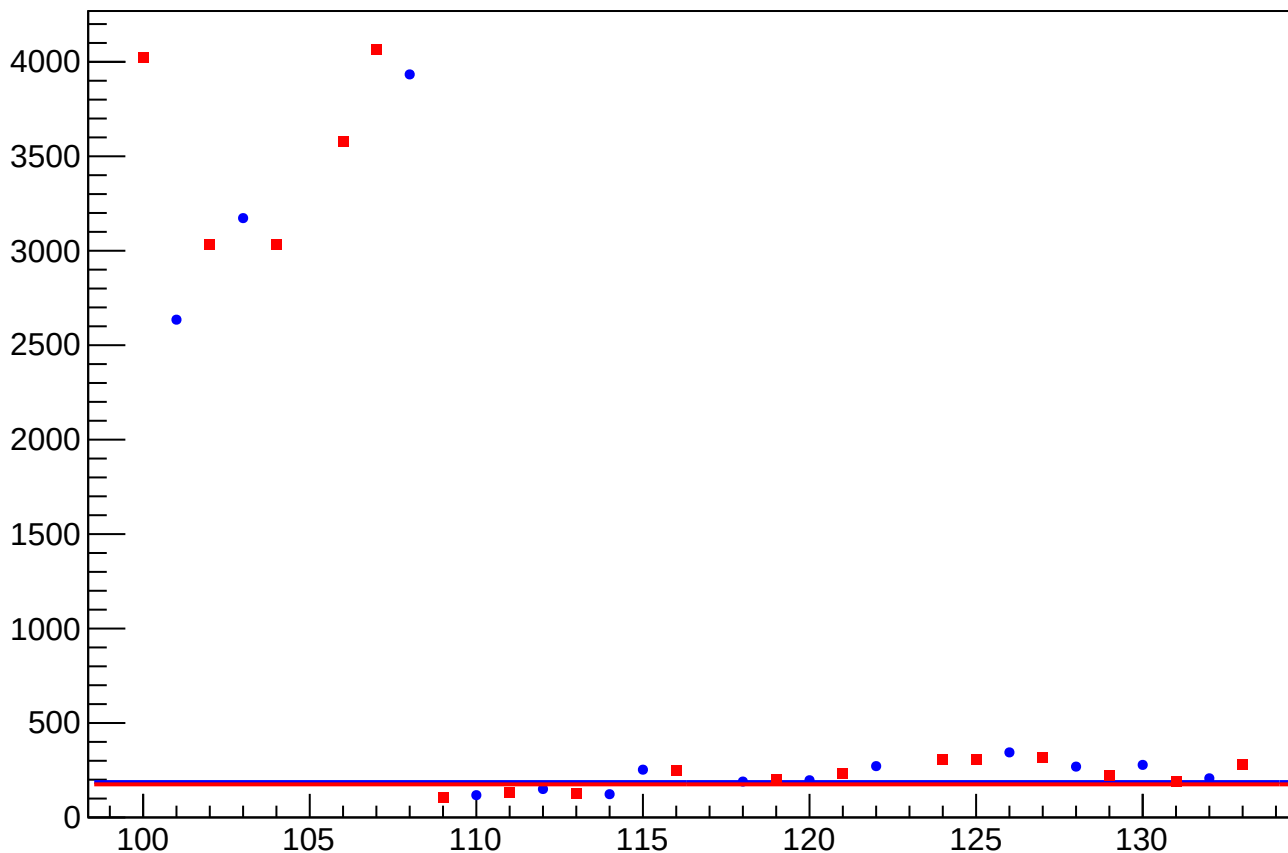
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.990+/-63.520  $\chi^2/\text{NDF}$ : 27.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug



Right In: 187.204 $\pm$ 0.067  $\chi^2$ /NDF: 3743378.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 175.273 $\pm$ 0.061  $\chi^2$ /NDF: 4289902.6/16

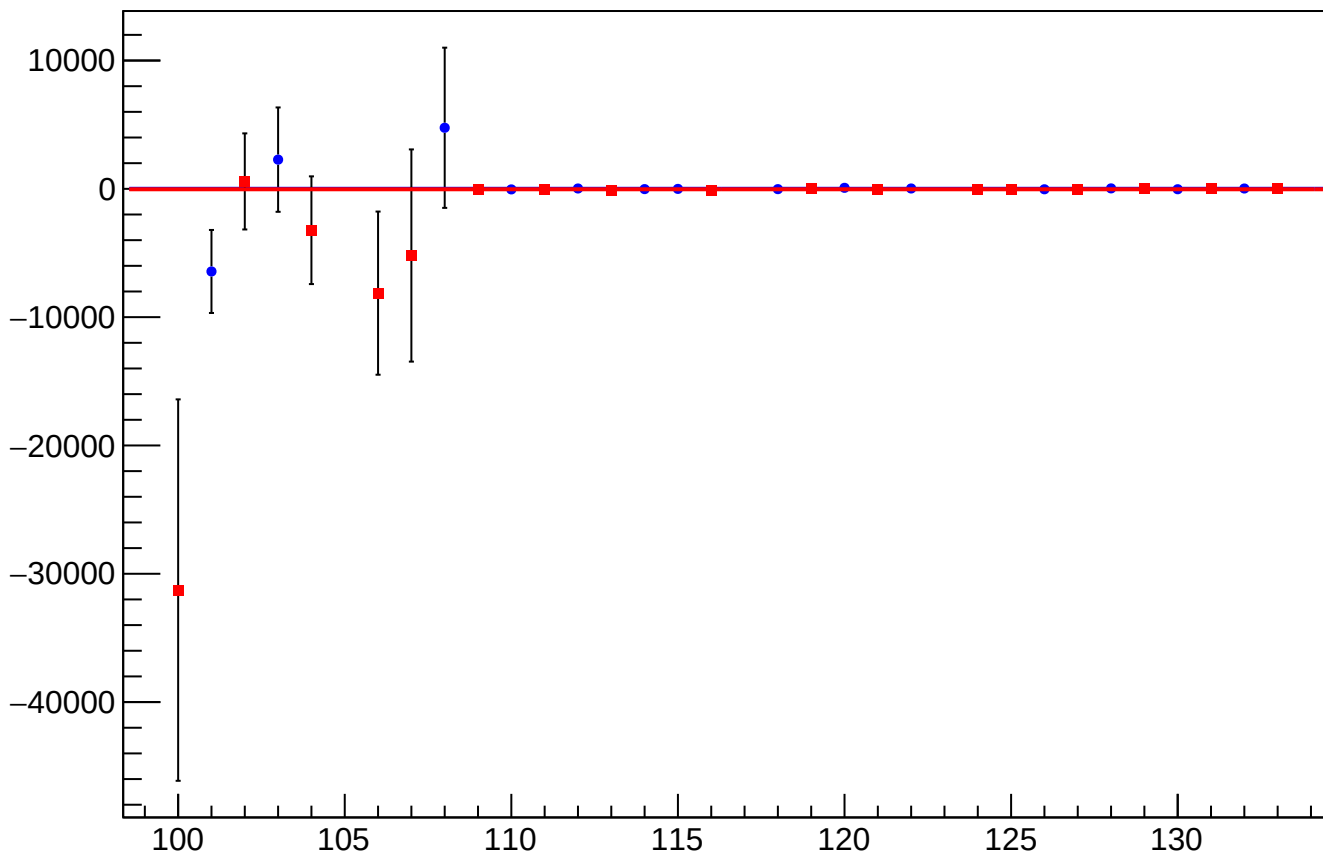
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 180.642 $\pm$ 0.045  $\chi^2$ /NDF: 8050744.5/30

- 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: 3.912 $\pm$ 14.924  $\chi^2$ /NDF: 10.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -33.572 $\pm$ 14.229  $\chi^2$ /NDF: 21.5/16

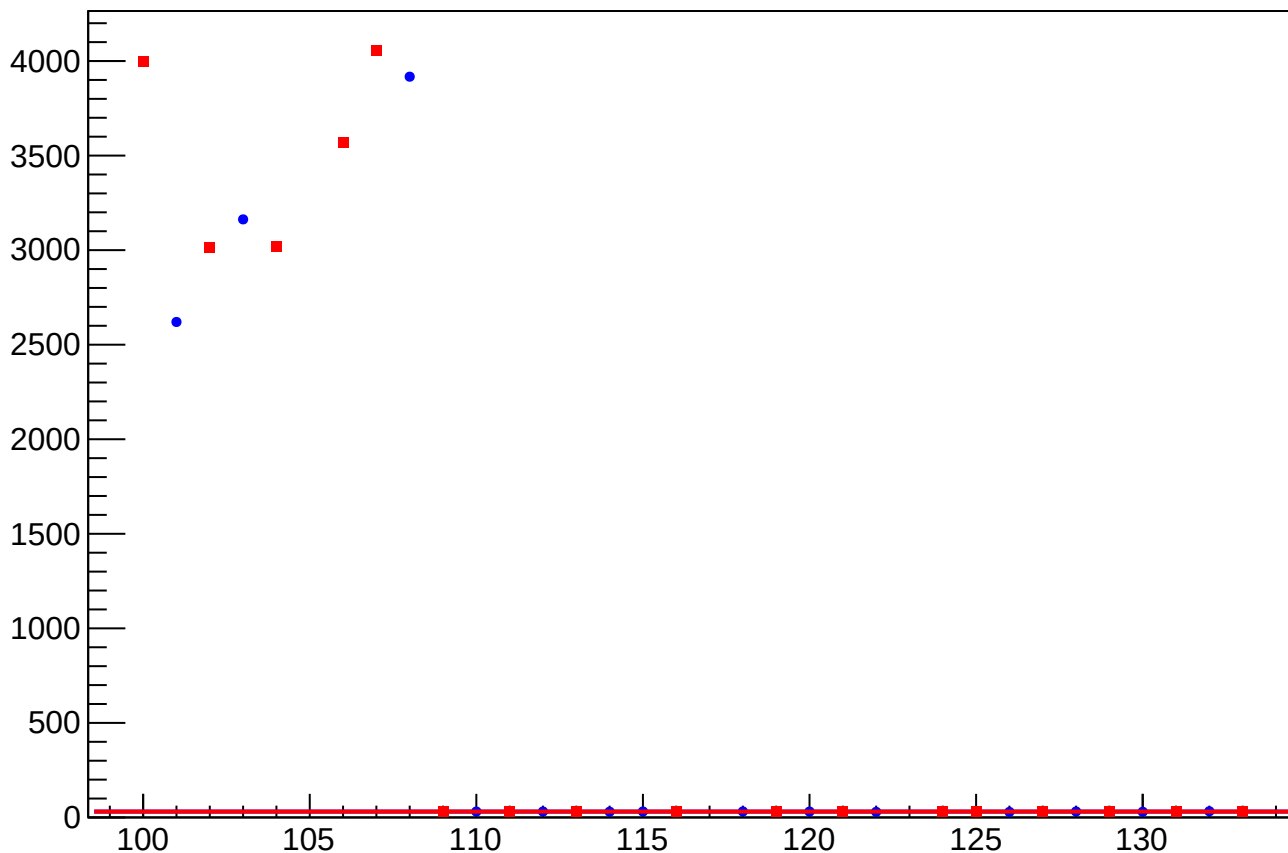
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -15.723 $\pm$ 10.298  $\chi^2$ /NDF: 35.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 31.091 $\pm$ 0.011  $\chi^2$ /NDF: 3251310.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 30.986 $\pm$ 0.010  $\chi^2$ /NDF: 3533087.3/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

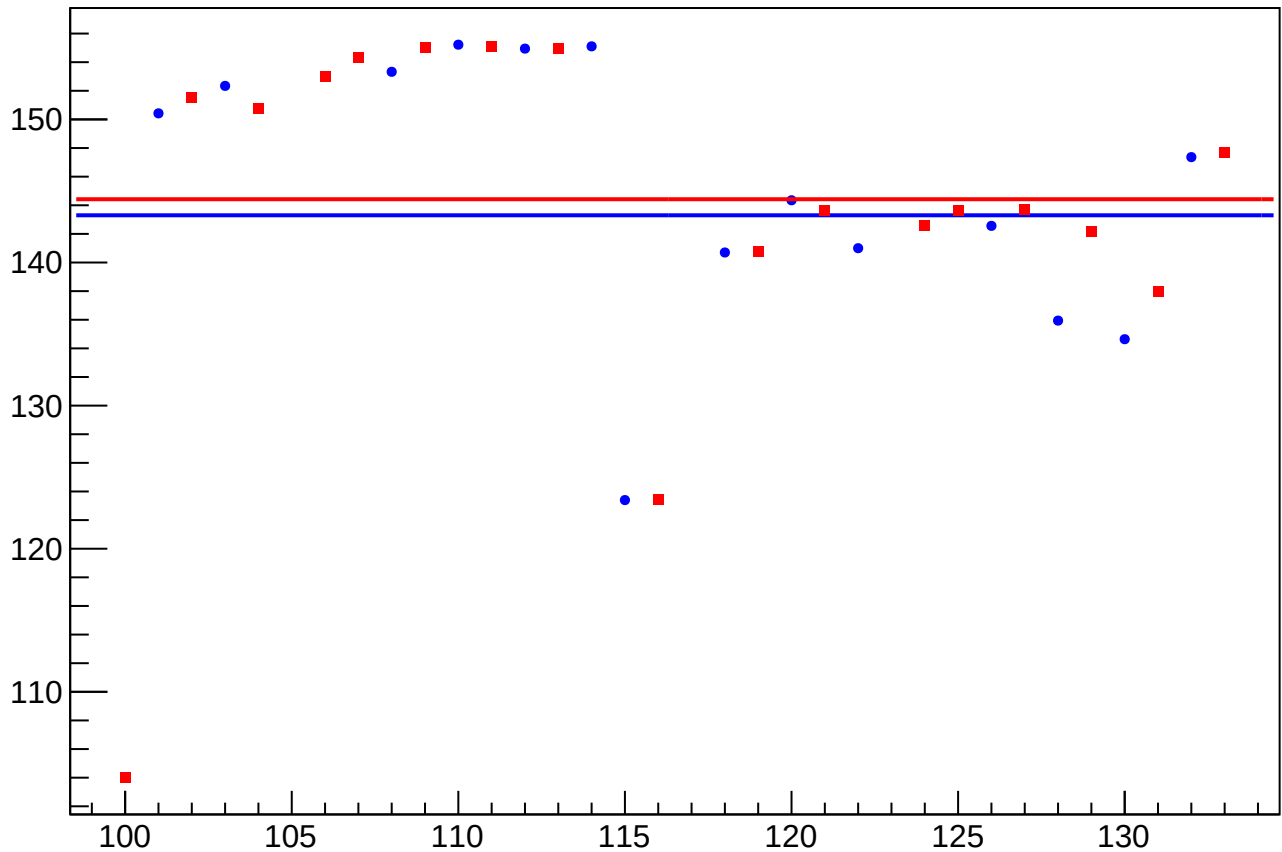
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.036 $\pm$ 0.007  $\chi^2$ /NDF: 6784449.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bcm\_target\_mean vs Slug



Right In: 143.301+/-0.000  $\chi^2/\text{NDF}$ : 3509594313.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 144.423+/-0.000  $\chi^2/\text{NDF}$ : 4202069531.8/16

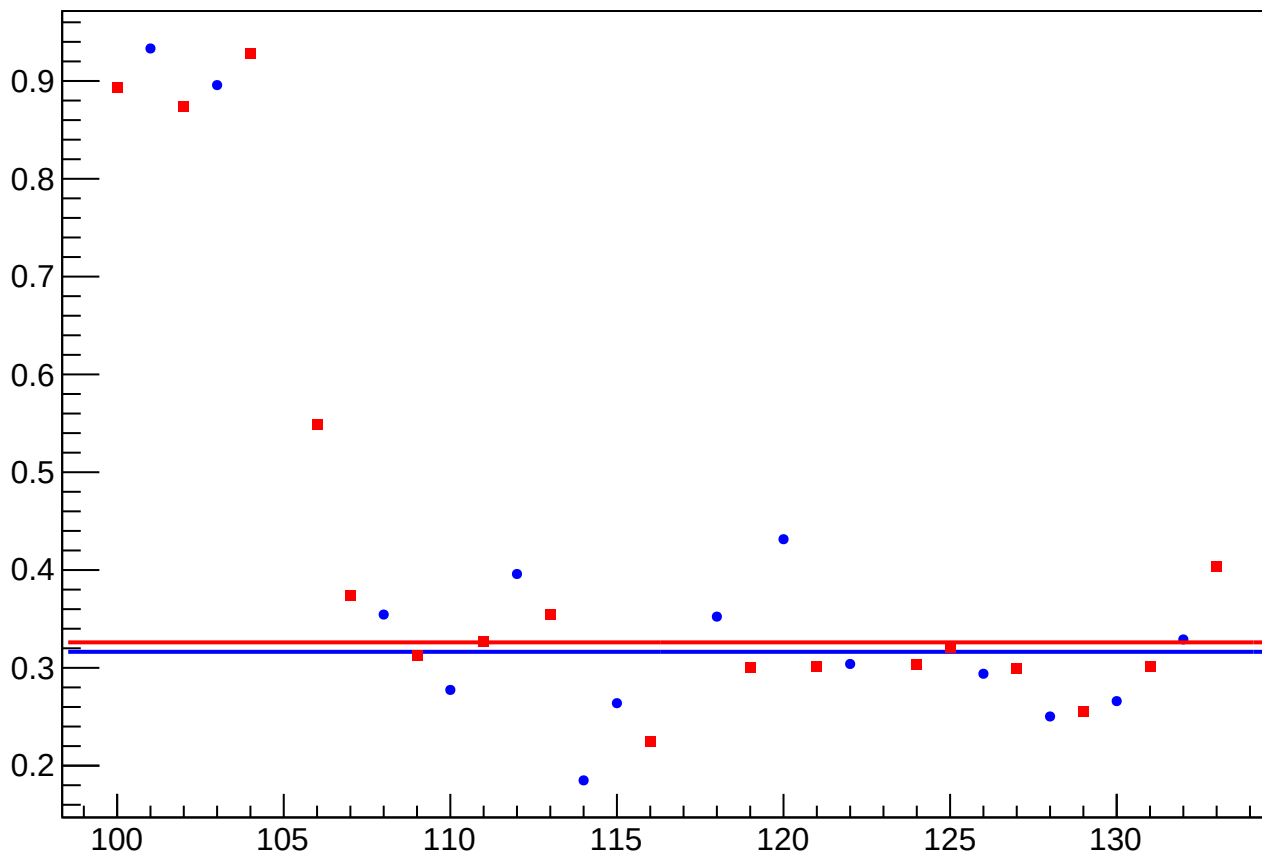
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 143.883+/-0.000  $\chi^2/\text{NDF}$ : 7742644976.9

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_target\_rms vs Slug



Right In: 0.316 $\pm$ 0.000  $\chi^2$ /NDF: 1369176.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.326 $\pm$ 0.000  $\chi^2$ /NDF: 1293040.3/16

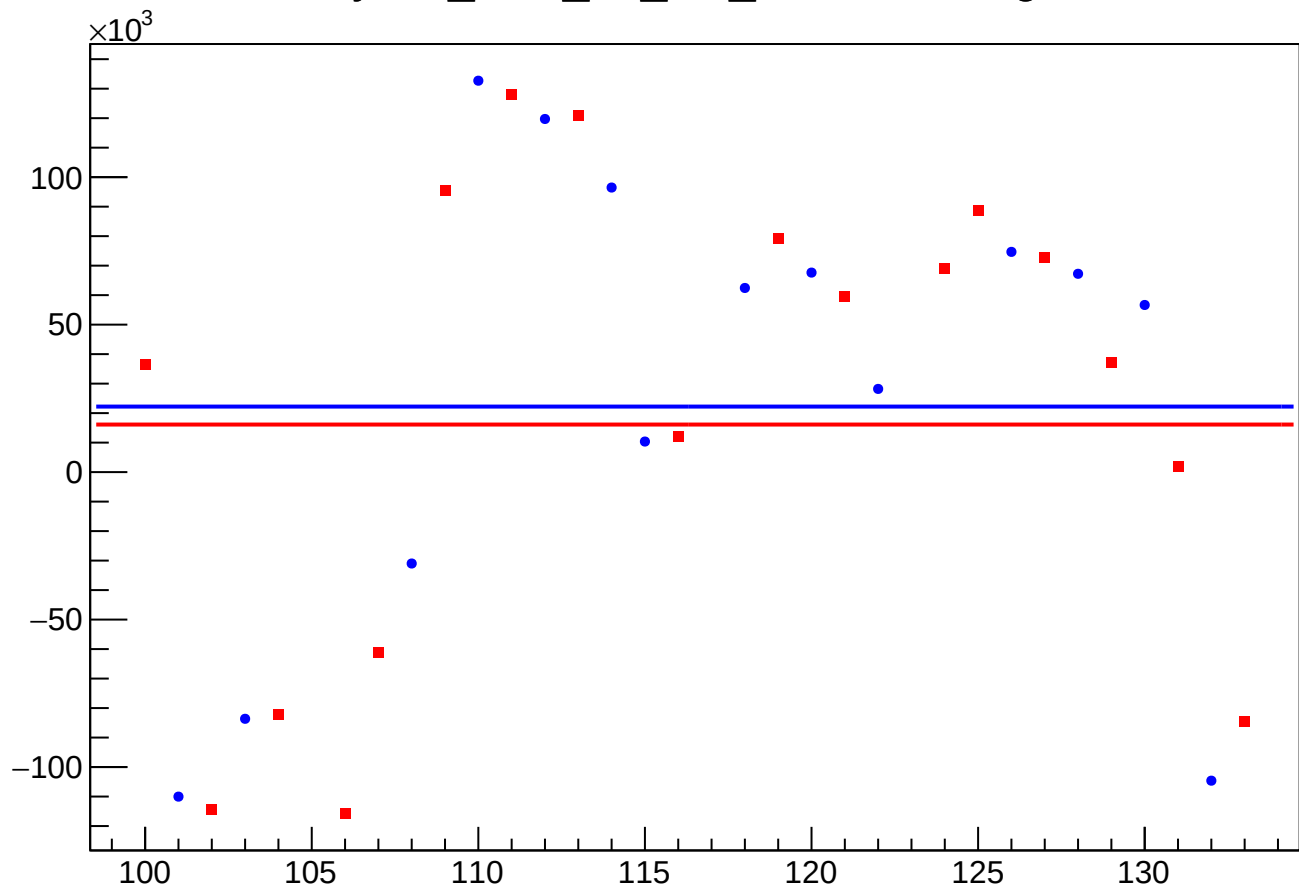
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.321 $\pm$ 0.000  $\chi^2$ /NDF: 2666813.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_an\_diff\_mean vs Slug



Right In: 22218.562 $\pm$ 2.175  $\chi^2$ /NDF: 1357987185.4/13

+ 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

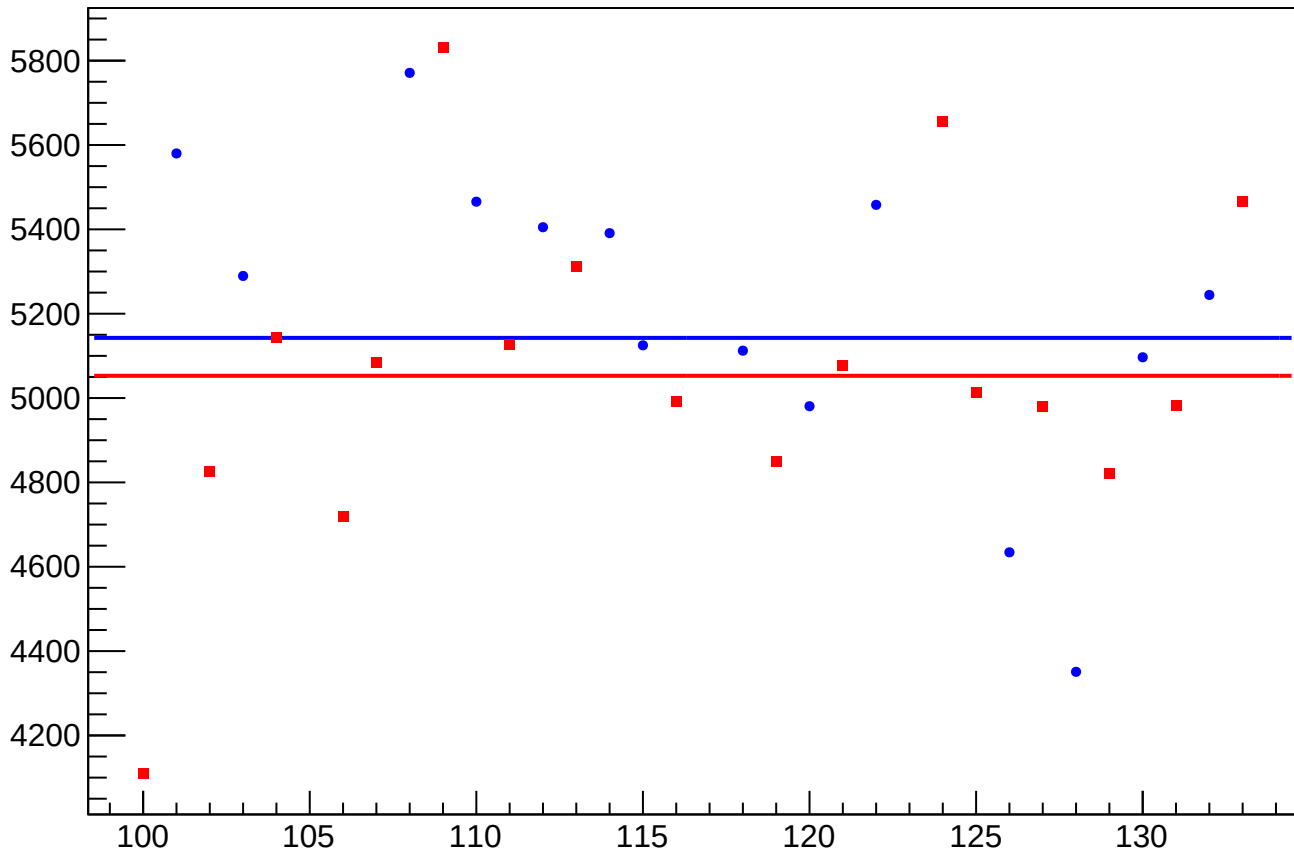
All: 18918.405 $\pm$ 1.473  $\chi^2$ /NDF: 3191644113

Right Out: 16123.661 $\pm$ 2.001  $\chi^2$ /NDF: 1829403328.0/16

- 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

# yield\_bcm\_an\_diff\_rms vs Slug



Right In: 5142.683 $\pm$ 1.538  $\chi^2$ /NDF: 68198.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5052.777 $\pm$ 1.415  $\chi^2$ /NDF: 45954.9/16

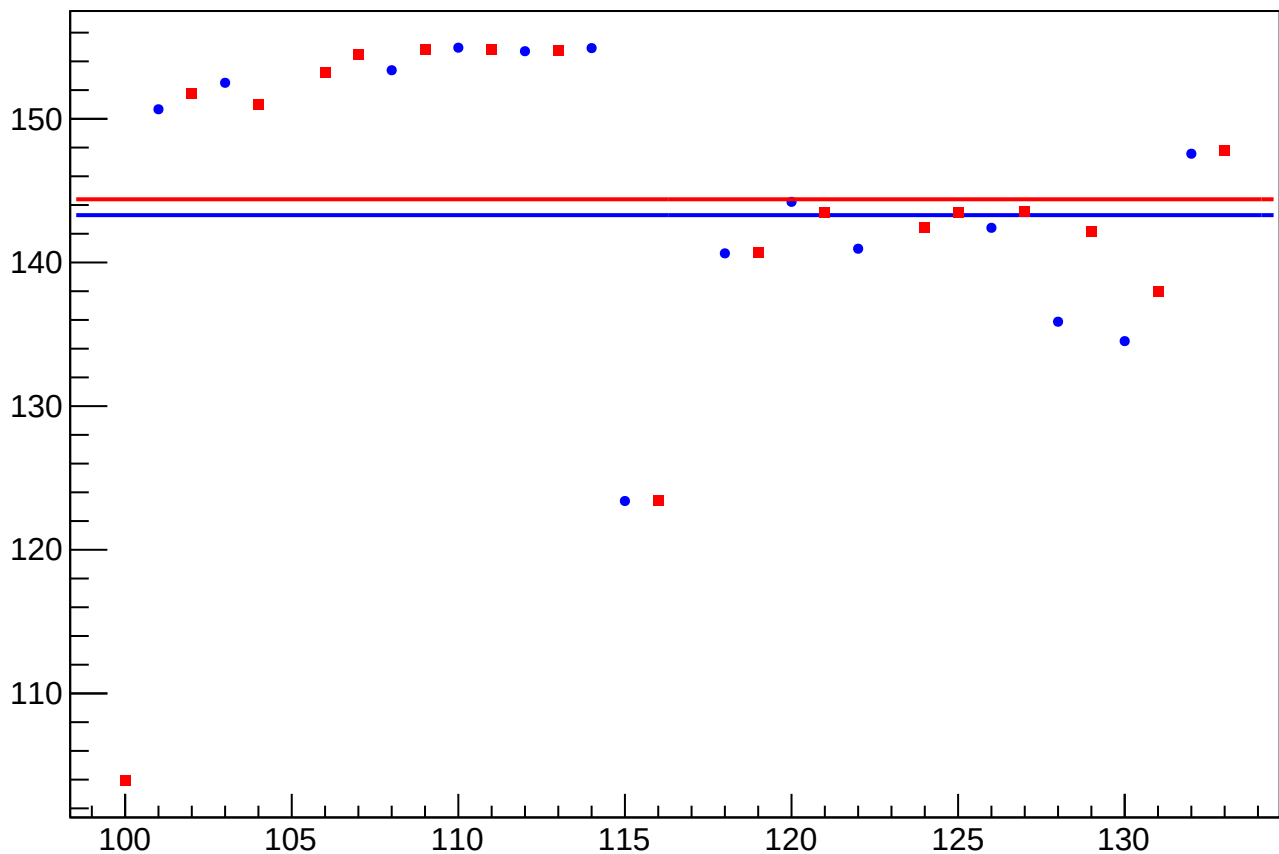
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5094.002 $\pm$ 1.041  $\chi^2$ /NDF: 116004.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_an\_ds\_mean vs Slug



Right In: 143.296+/-0.000  $\chi^2/\text{NDF}$ : 3546273140.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 144.399+/-0.000  $\chi^2/\text{NDF}$ : 4228839321.3/16

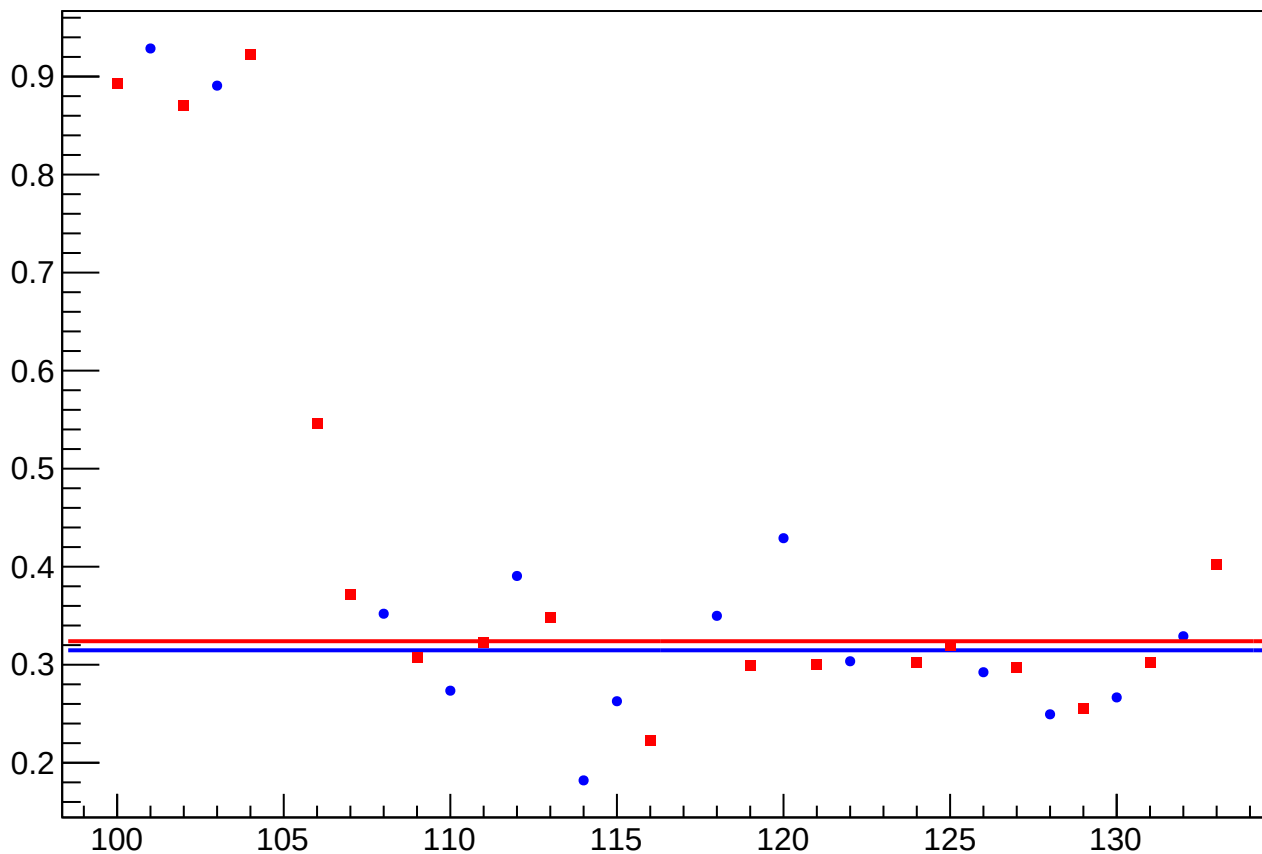
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 143.869+/-0.000  $\chi^2/\text{NDF}$ : 7805425889.0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_an\_ds\_rms vs Slug



Right In: 0.315+/-0.000  $\chi^2/\text{NDF}$ : 1368483.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.324+/-0.000  $\chi^2/\text{NDF}$ : 1291081.2/16

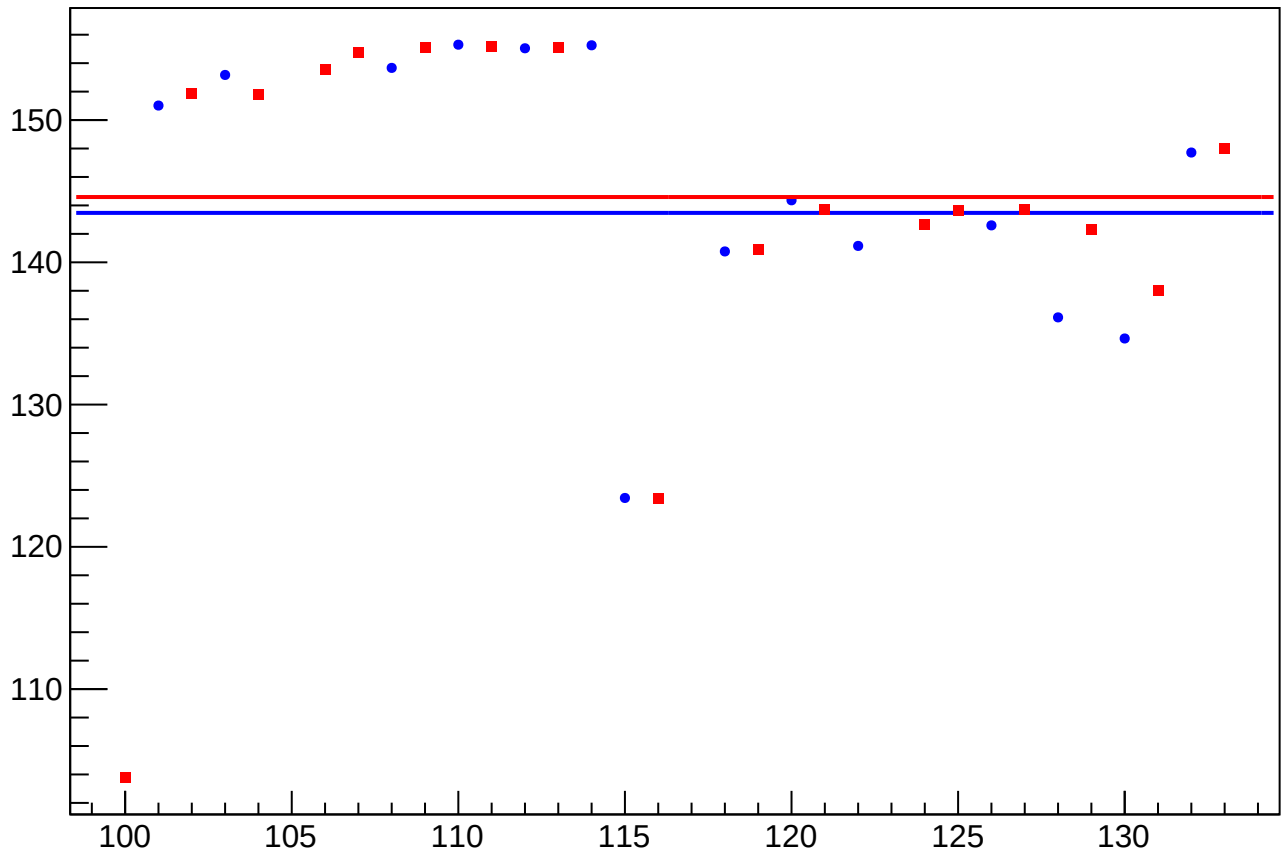
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.320+/-0.000  $\chi^2/\text{NDF}$ : 2663838.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_an\_ds3\_mean vs Slug



Right In: 143.475+/-0.000  $\chi^2/\text{NDF}$ : 3539117004.1/13

+ 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

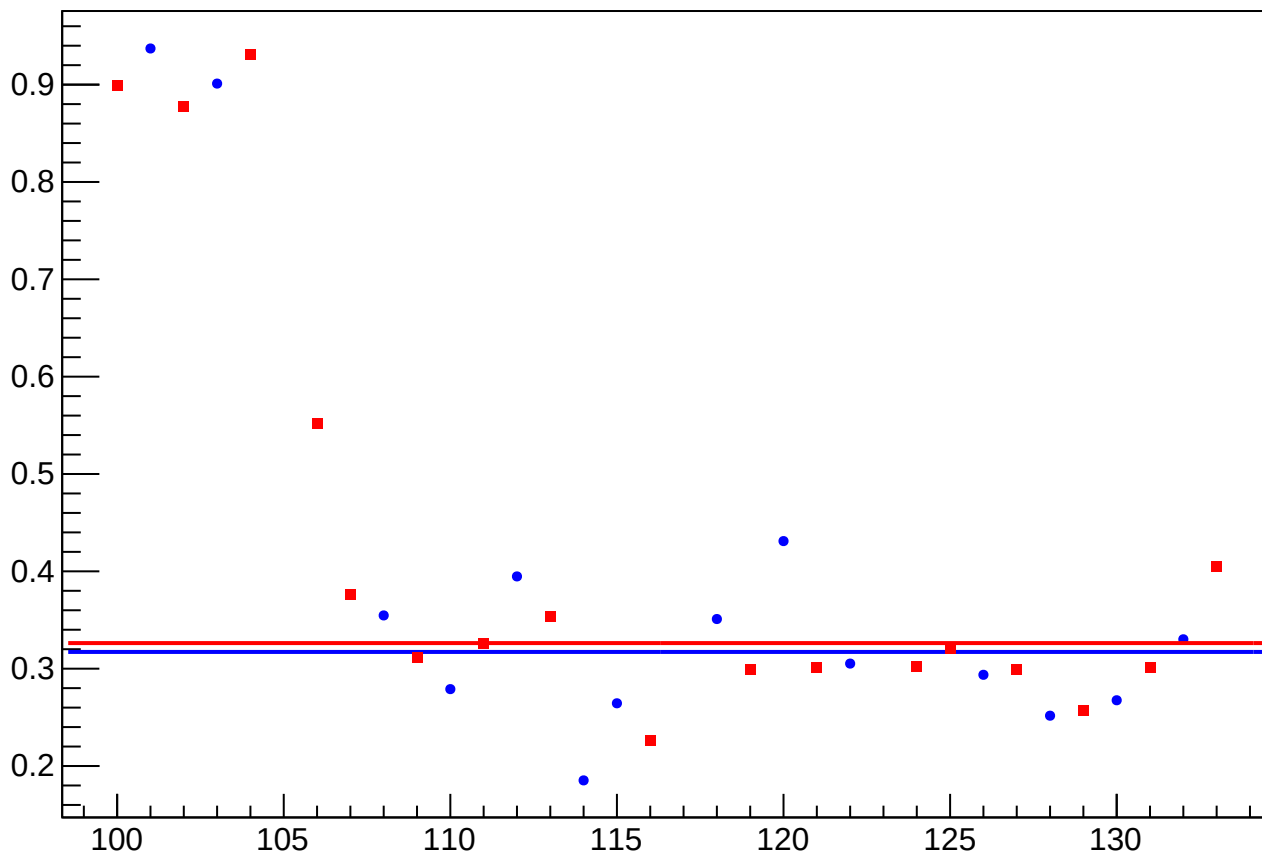
Right Out: 144.590+/-0.000  $\chi^2/\text{NDF}$ : 4220689697.8/16

All: 144.054+/-0.000  $\chi^2/\text{NDF}$ : 7790305340.0

- 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\_ds3\_rms vs Slug



Right In: 0.317+/-0.000  $\chi^2/\text{NDF}$ : 1365632.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.326+/-0.000  $\chi^2/\text{NDF}$ : 1291782.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

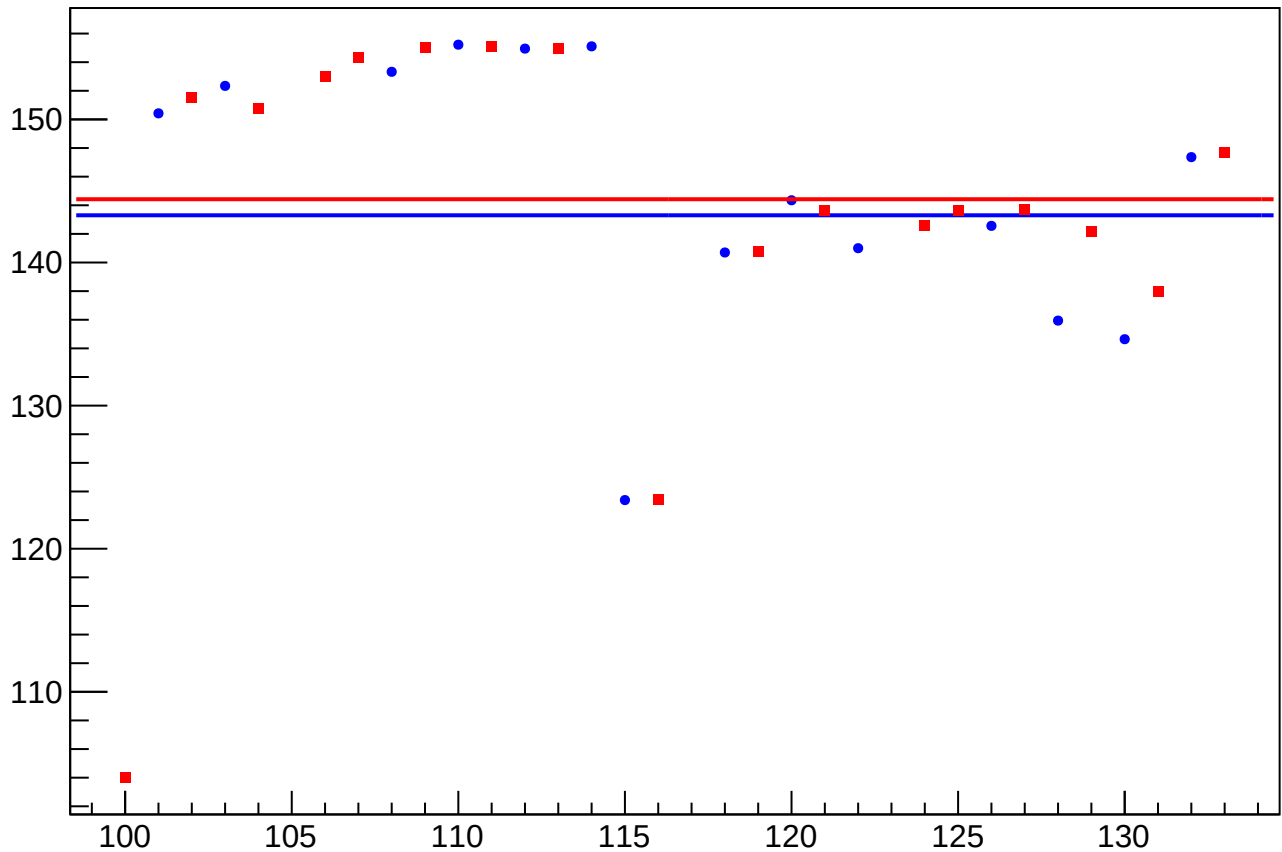
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.322+/-0.000  $\chi^2/\text{NDF}$ : 2661472.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bcm\_an\_us\_mean vs Slug



Right In: 143.301+/-0.000  $\chi^2/\text{NDF}$ : 3509594313.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 144.423+/-0.000  $\chi^2/\text{NDF}$ : 4202069531.8/16

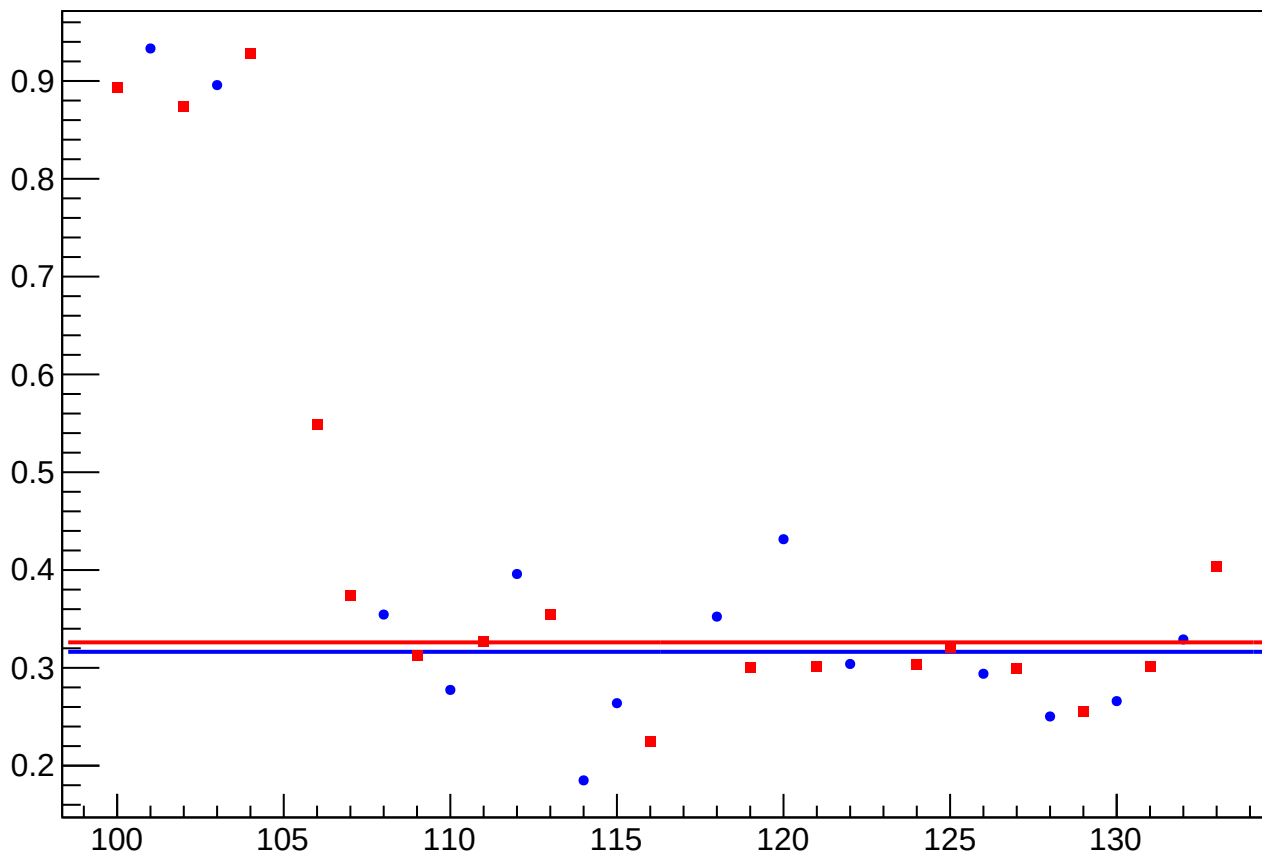
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 143.883+/-0.000  $\chi^2/\text{NDF}$ : 7742644976.9

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_an\_us\_rms vs Slug



Right In: 0.316+/-0.000  $\chi^2/\text{NDF}$ : 1369176.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.326+/-0.000  $\chi^2/\text{NDF}$ : 1293040.3/16

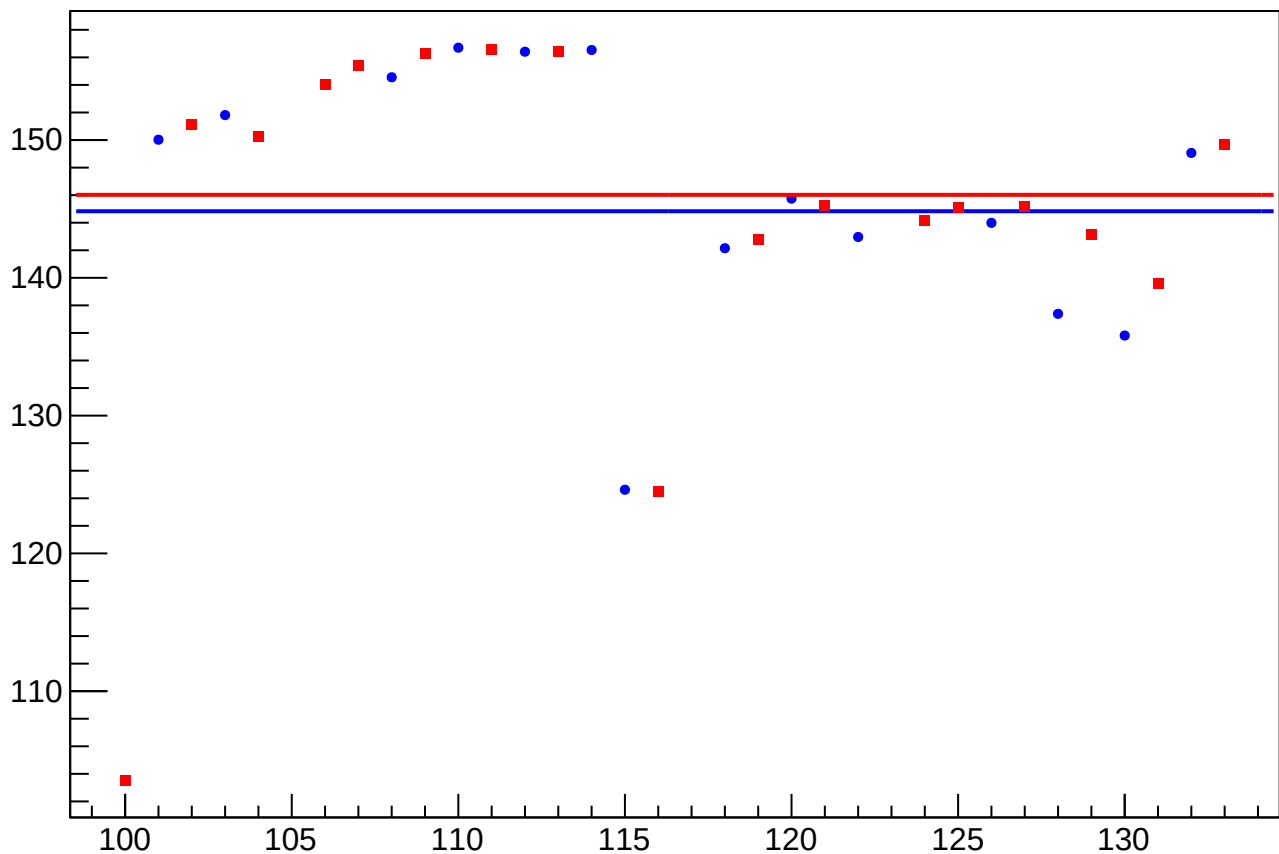
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.321+/-0.000  $\chi^2/\text{NDF}$ : 2666813.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_dg\_us\_mean vs Slug



Right In: 144.833+/-0.000  $\chi^2/\text{NDF}$ : 3285077500.2/13

+ 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

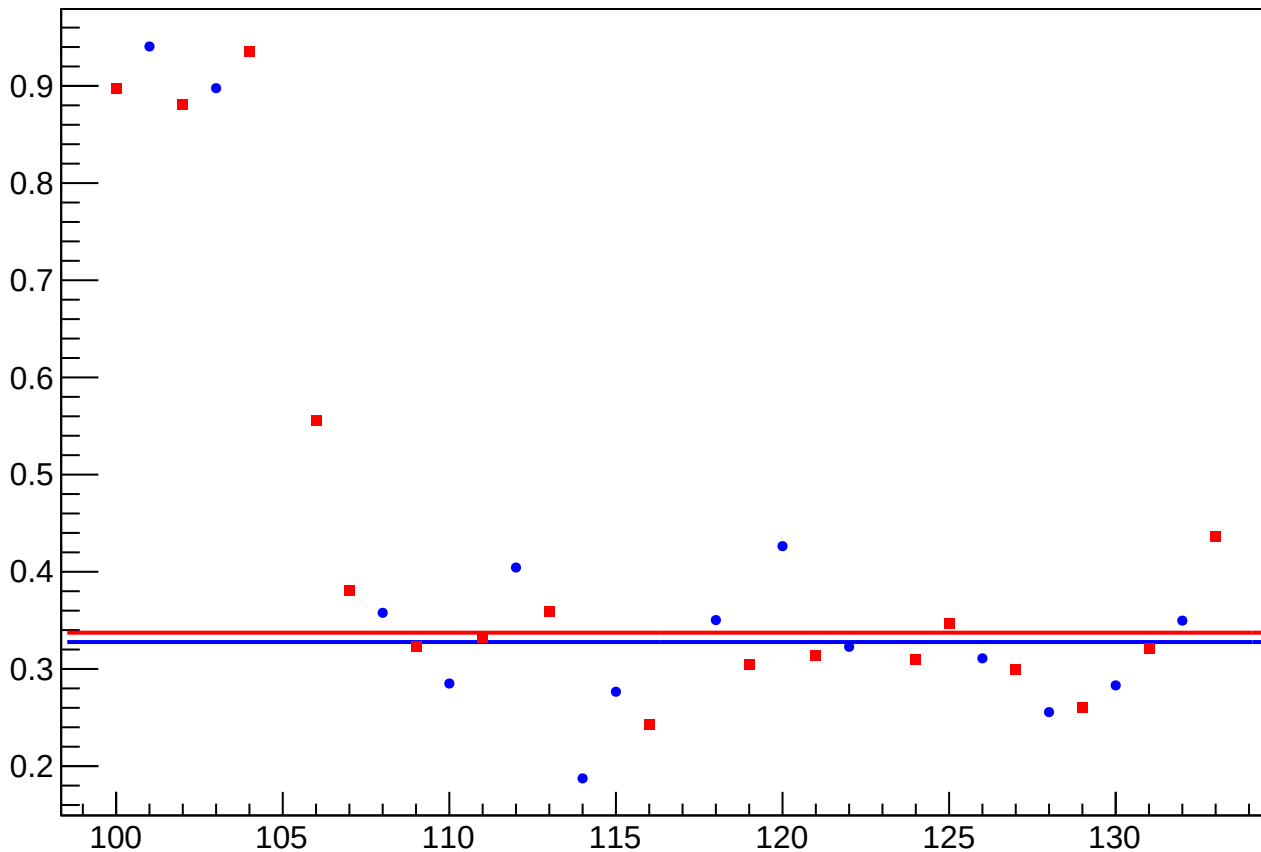
Right Out: 146.023+/-0.000  $\chi^2/\text{NDF}$ : 3805886689.4/16

All: 145.450+/-0.000  $\chi^2/\text{NDF}$ : 7123556560.6

- 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: 0.328+/-0.000  $\chi^2/\text{NDF}$ : 1319161.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.337+/-0.000  $\chi^2/\text{NDF}$ : 1259804.8/16

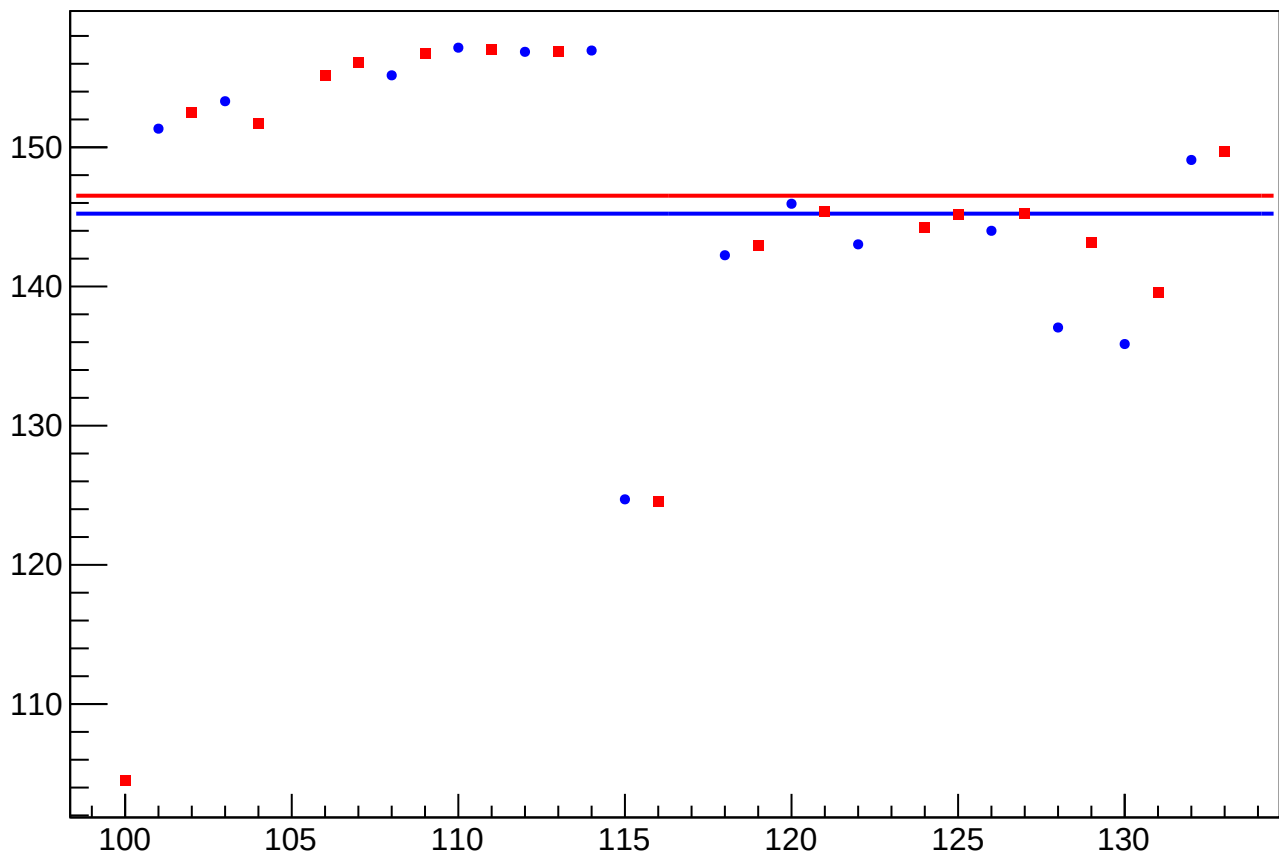
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.333+/-0.000  $\chi^2/\text{NDF}$ : 2583245.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_dg\_ds\_mean vs Slug



Right In: 145.232+/-0.000  $\chi^2/\text{NDF}$ : 3458242019.7/13

+ 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

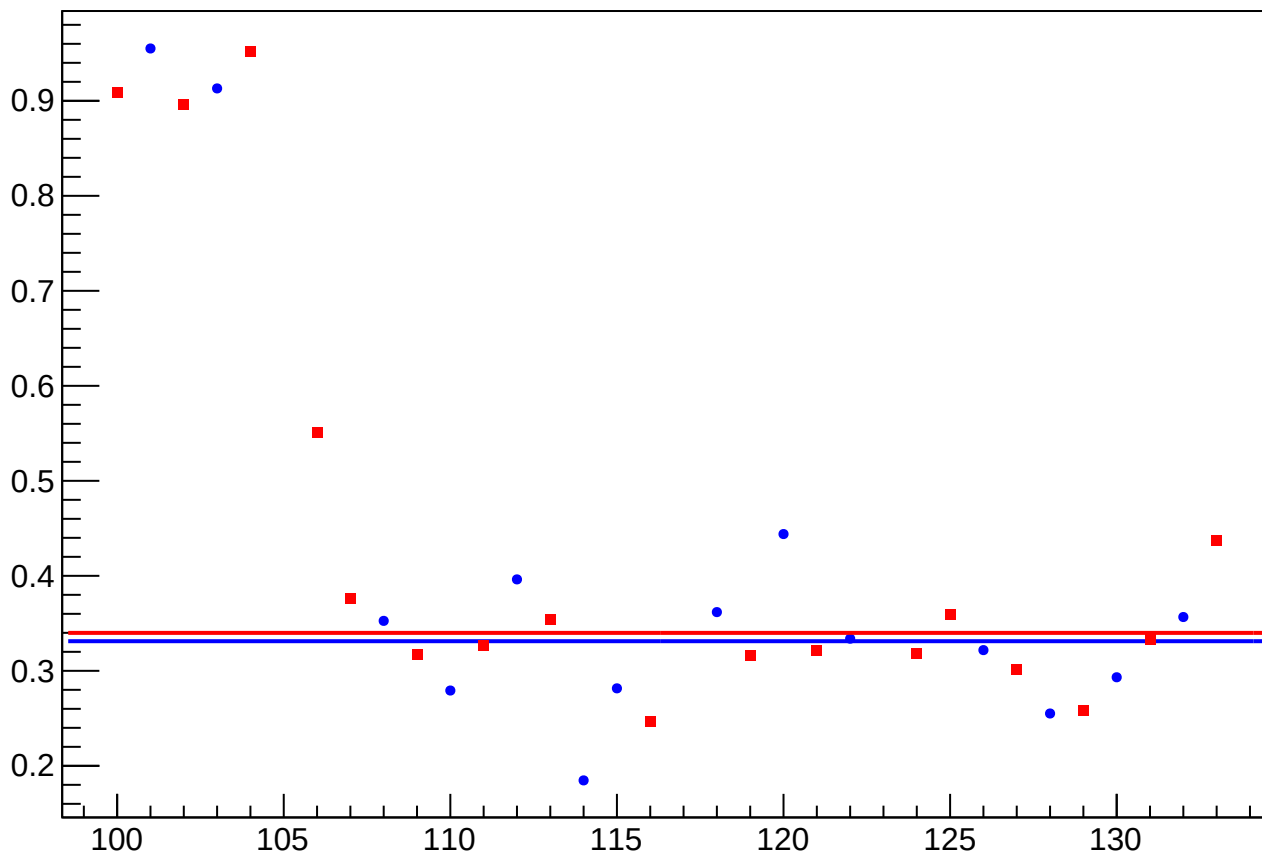
Right Out: 146.522+/-0.000  $\chi^2/\text{NDF}$ : 3901132984.1/16

All: 145.903+/-0.000  $\chi^2/\text{NDF}$ : 7396878635.8

- 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\_dg\_ds\_rms vs Slug



Right In: 0.331+/-0.000  $\chi^2/\text{NDF}$ : 1343355.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.340+/-0.000  $\chi^2/\text{NDF}$ : 1258089.4/16

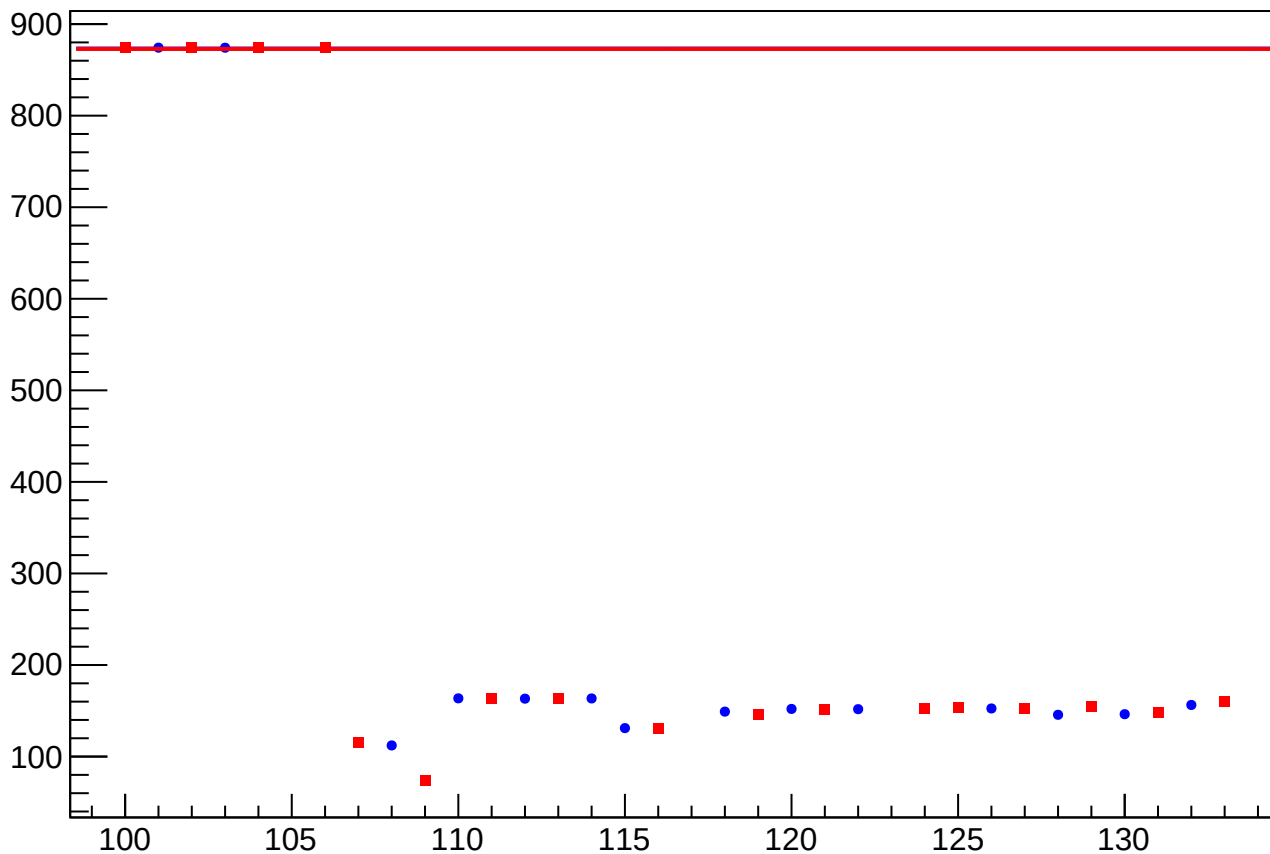
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.336+/-0.000  $\chi^2/\text{NDF}$ : 2604903.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4bQ\_mean vs Slug



Right In: 873.257+/-0.000  $\chi^2/\text{NDF}$ : 4983677100150.7/13

+ 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

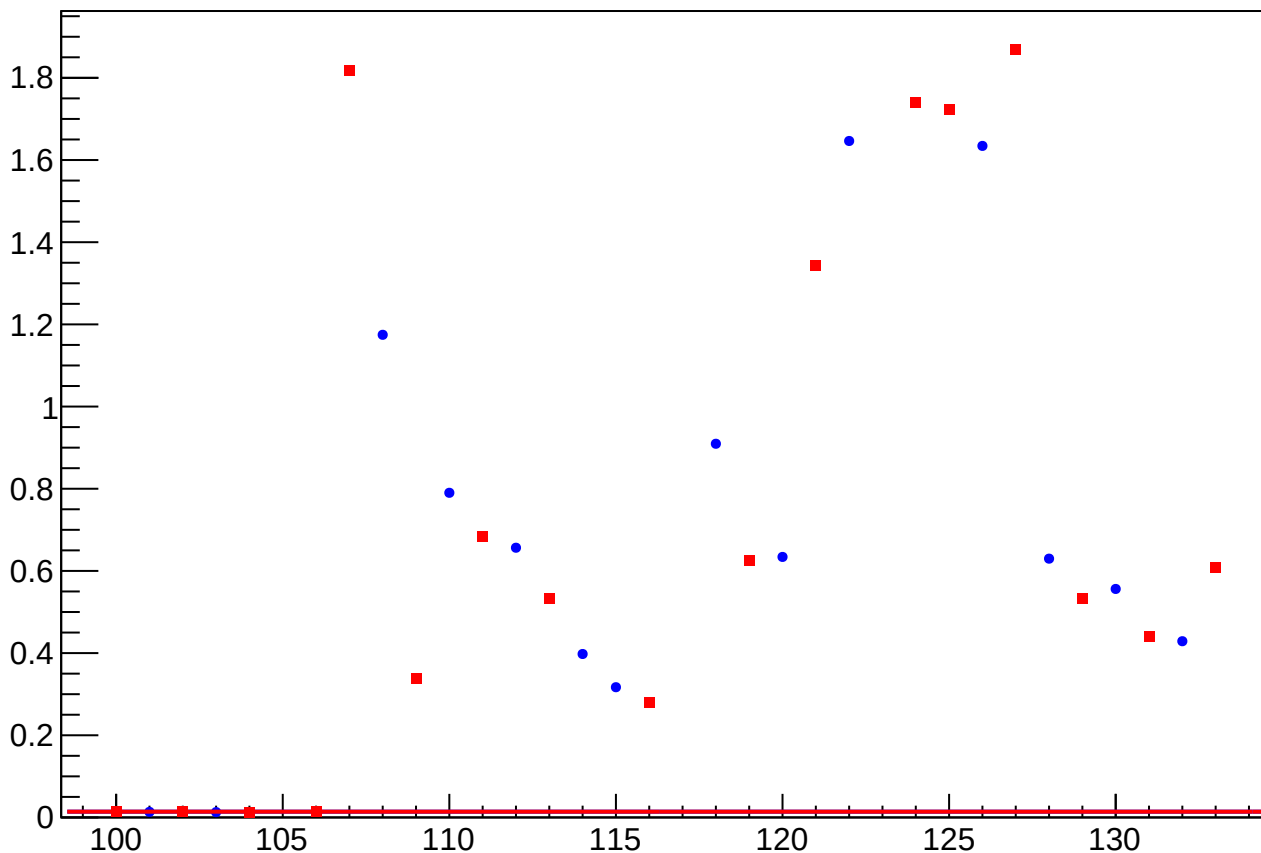
Right Out: 872.912+/-0.000  $\chi^2/\text{NDF}$ : 7777507153654.9/16

All: 873.072+/-0.000  $\chi^2/\text{NDF}$ : 127616391265

- 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\_cav4bQ\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 7389704.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 8170846.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

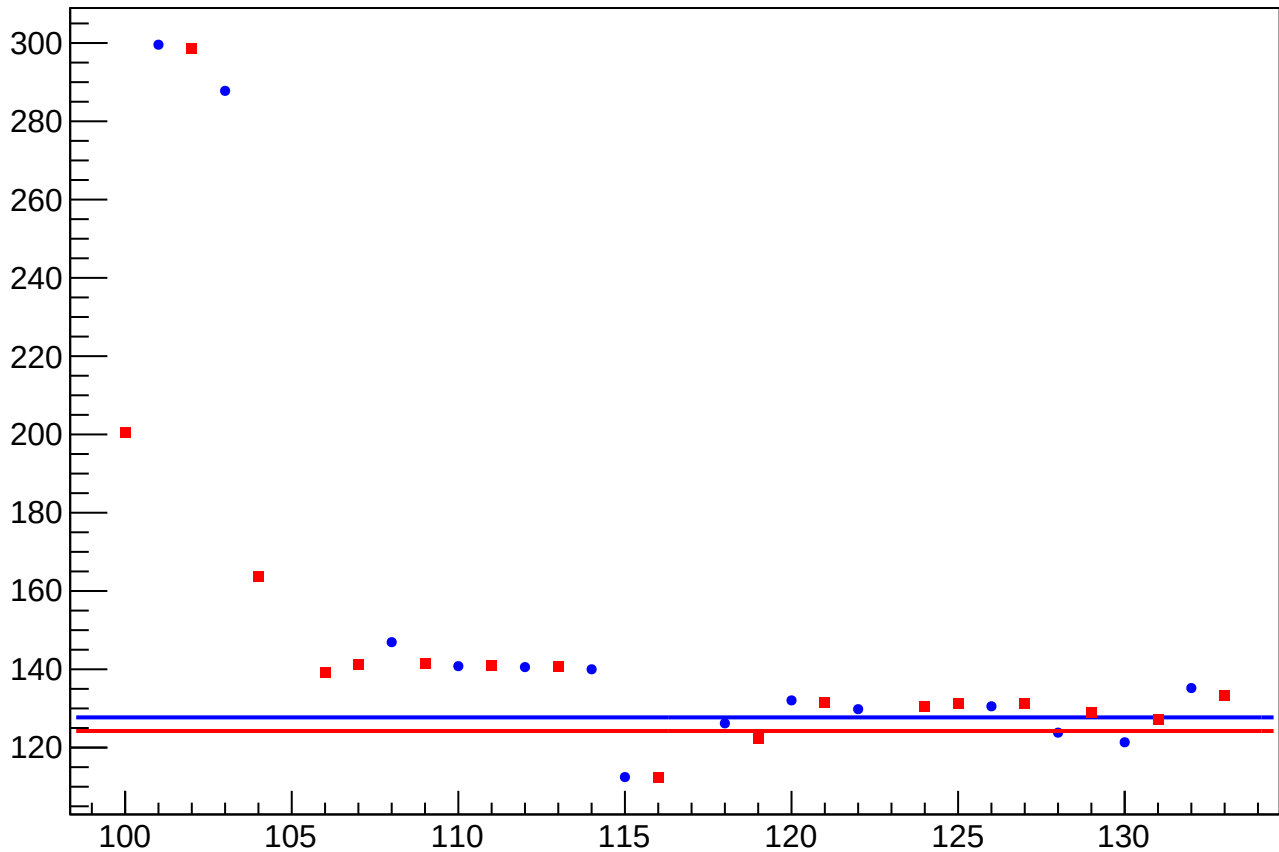
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 15560552.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_cav4cQ\_mean vs Slug



Right In: 127.717 $\pm$ 0.000  $\chi^2$ /NDF: 1587609287.0/13

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

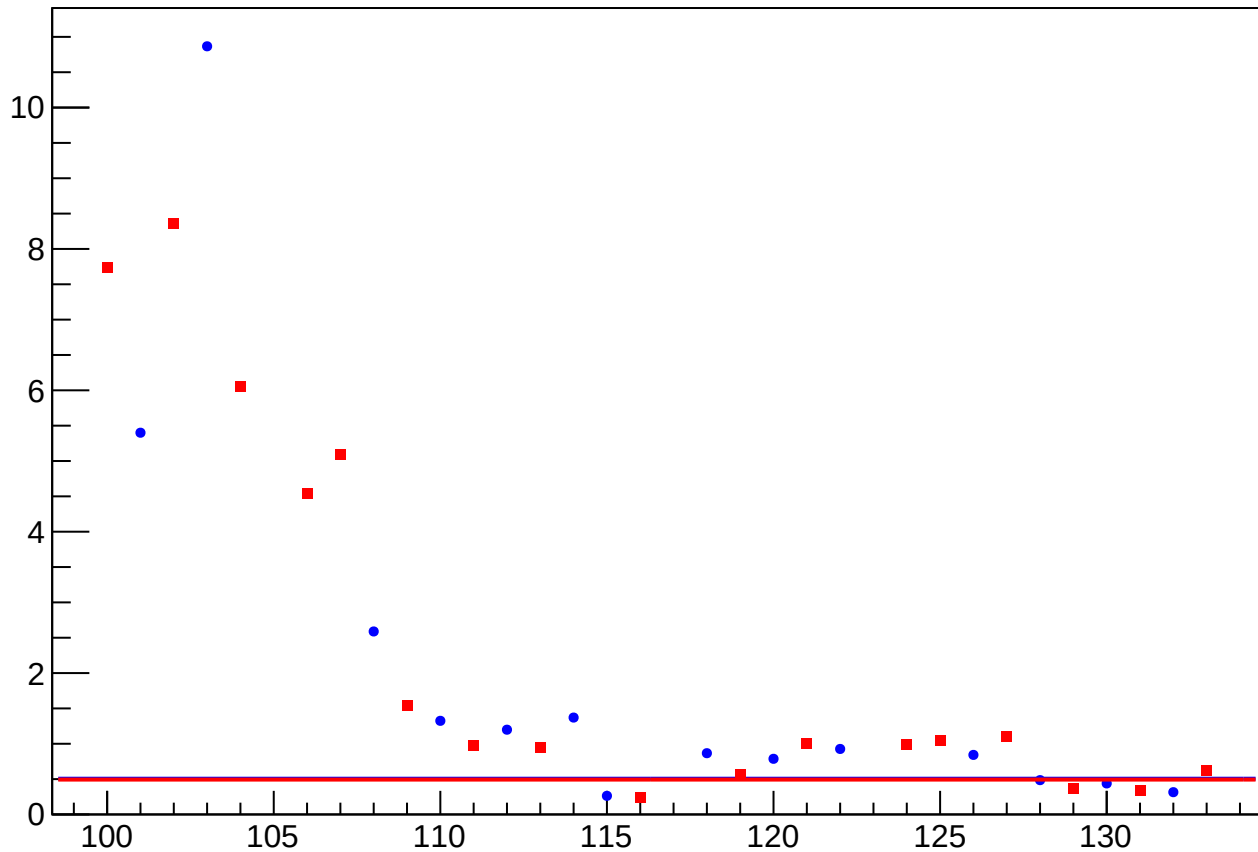
Right Out: 124.238 $\pm$ 0.000  $\chi^2$ /NDF: 1331054119.6/16

All: 125.876 $\pm$ 0.000  $\chi^2$ /NDF: 2990647761.7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4cQ\_rms vs Slug



Right In: 0.506+/-0.000  $\chi^2/\text{NDF}$ : 4090234.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.493+/-0.000  $\chi^2/\text{NDF}$ : 4870542.8/16

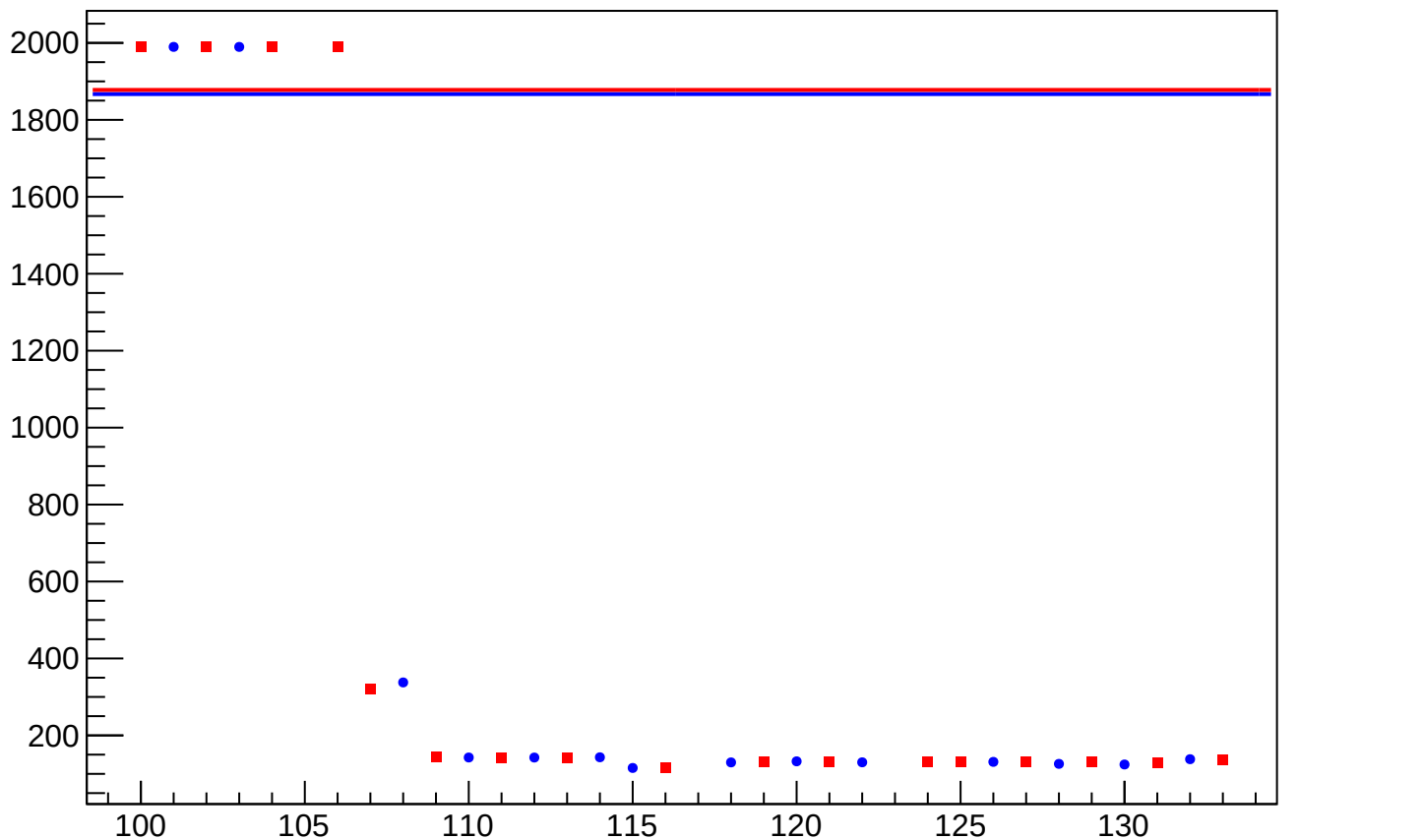
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.499+/-0.000  $\chi^2/\text{NDF}$ : 8962583.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dQ\_mean vs Slug



Right In: 1867.055+/-0.000  $\chi^2/\text{NDF}$ : 119434776998632.5/13

+ 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

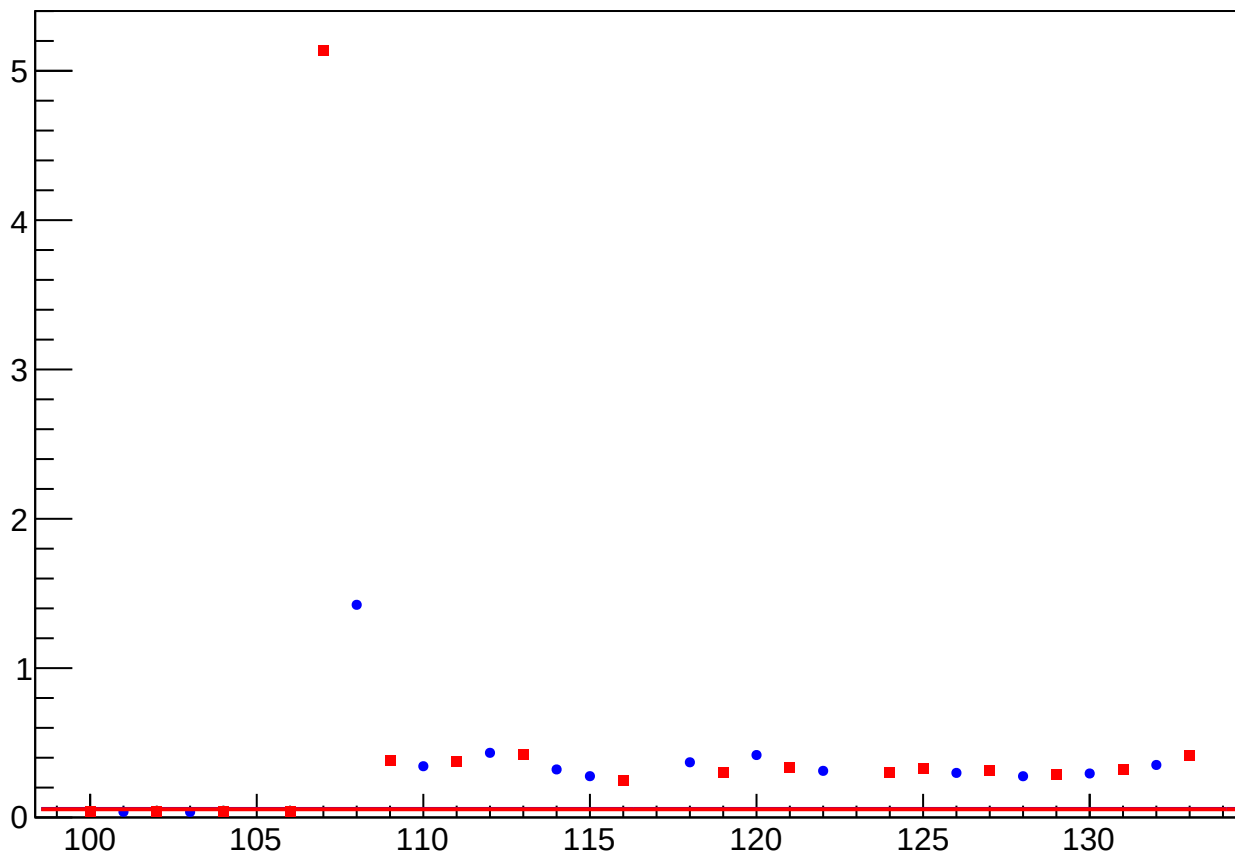
All: 1872.856+/-0.000  $\chi^2/\text{NDF}$ : 24860678772

Right Out: 1877.780+/-0.000  $\chi^2/\text{NDF}$ : 129137086421470.0/16

- 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: 0.057+/-0.000  $\chi^2/\text{NDF}$ : 6446987.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.055+/-0.000  $\chi^2/\text{NDF}$ : 6770042.3/16

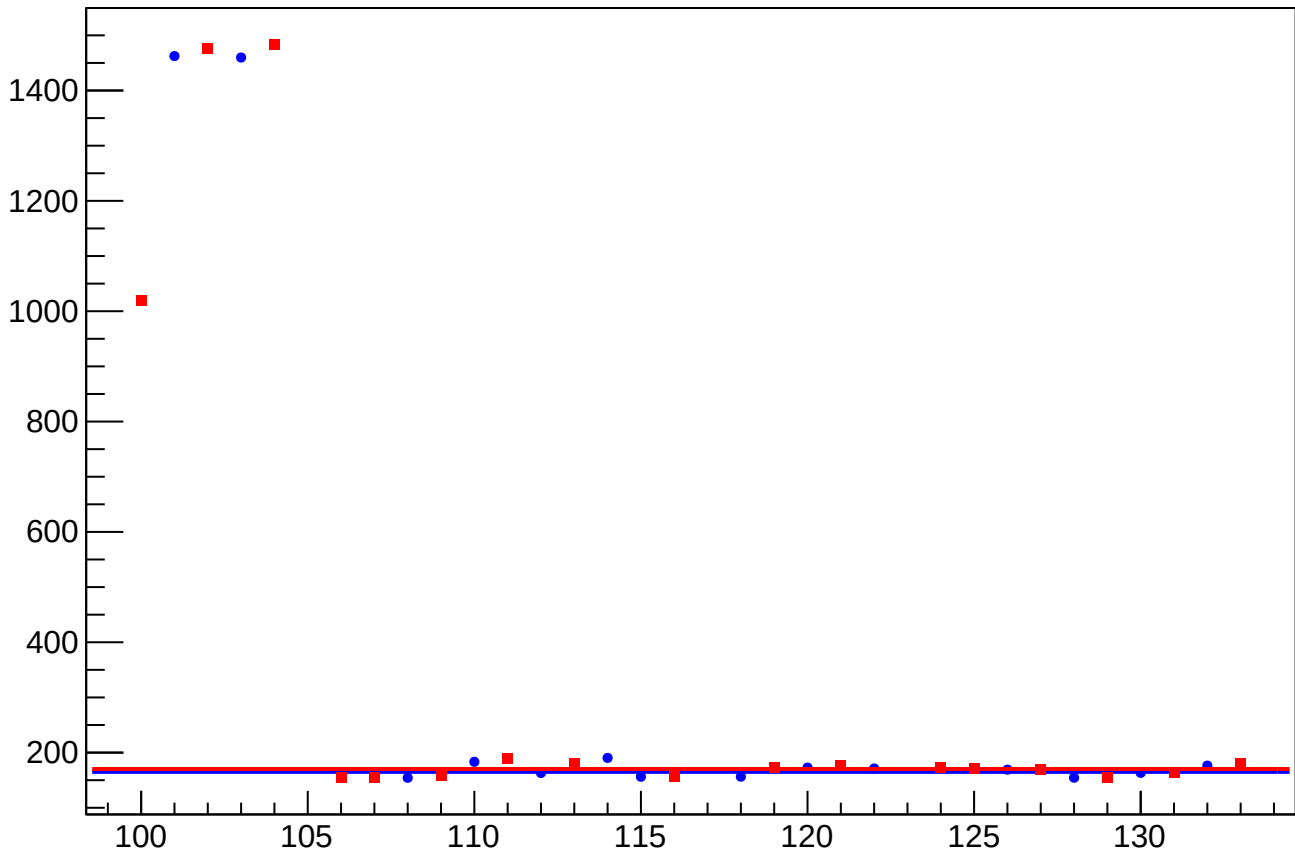
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.056+/-0.000  $\chi^2/\text{NDF}$ : 13218983.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_bcm0l02\_mean vs Slug



Right In: 165.125+/-0.000  $\chi^2/\text{NDF}$ : 14500595702.5/13

+ 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

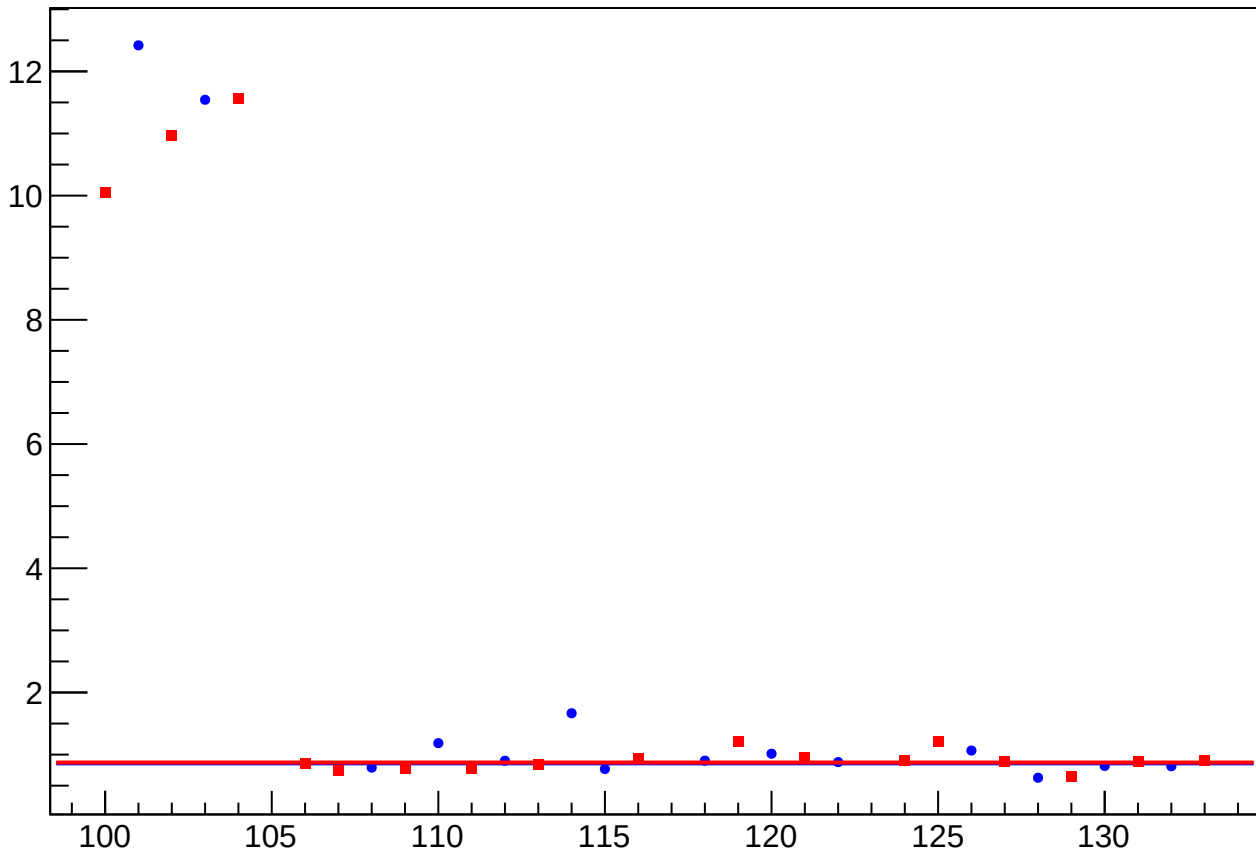
Right Out: 170.280+/-0.000  $\chi^2/\text{NDF}$ : 16232825576.4/16

All: 167.833+/-0.000  $\chi^2/\text{NDF}$ : 30794561590.

- 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: 0.859+/-0.000  $\chi^2/\text{NDF}$ : 2296396.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.873+/-0.000  $\chi^2/\text{NDF}$ : 2181829.9/16

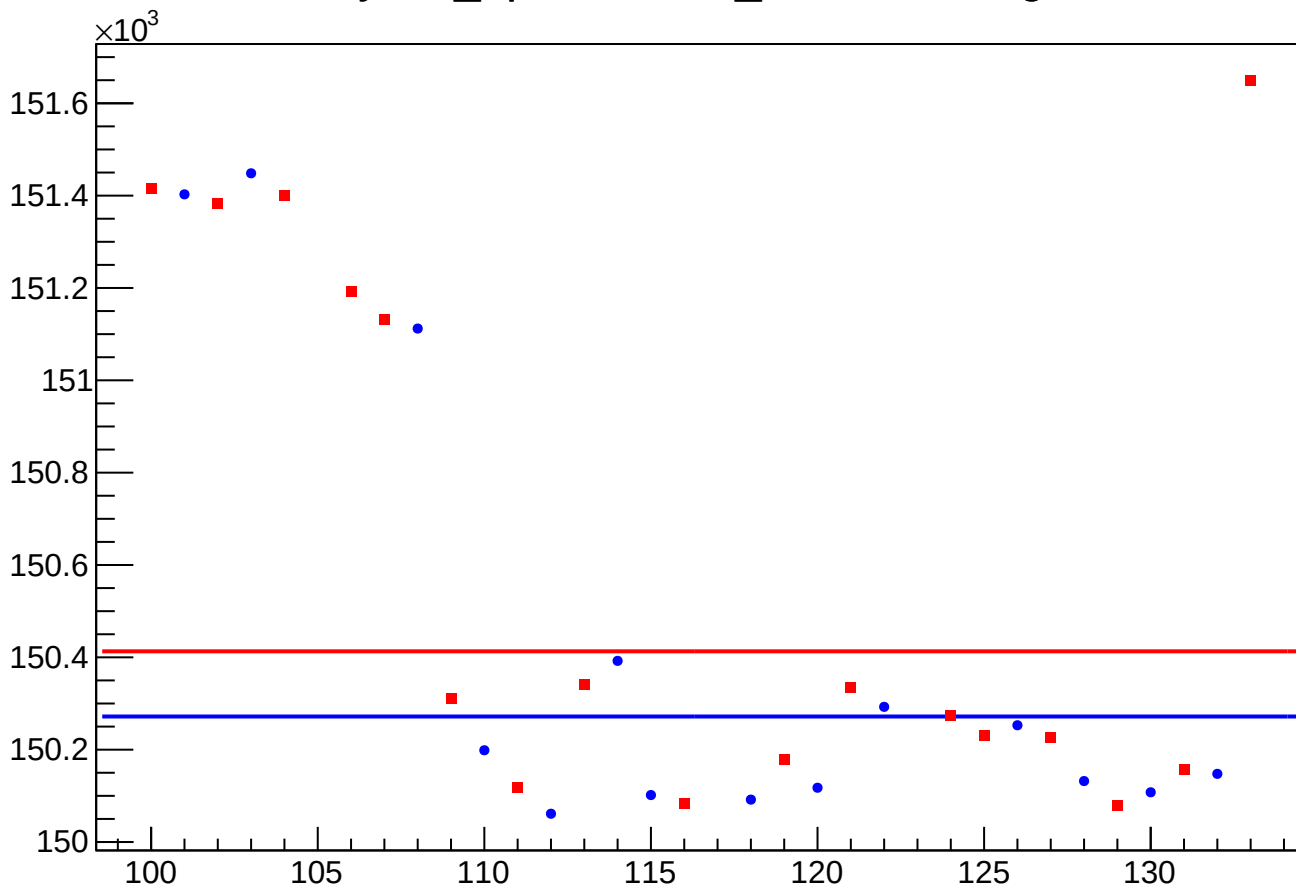
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.866+/-0.000  $\chi^2/\text{NDF}$ : 4479056.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01WS\_mean vs Slug



Right In: 150271.874 $\pm$ 0.059  $\chi^2$ /NDF: 34689083.9/13

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

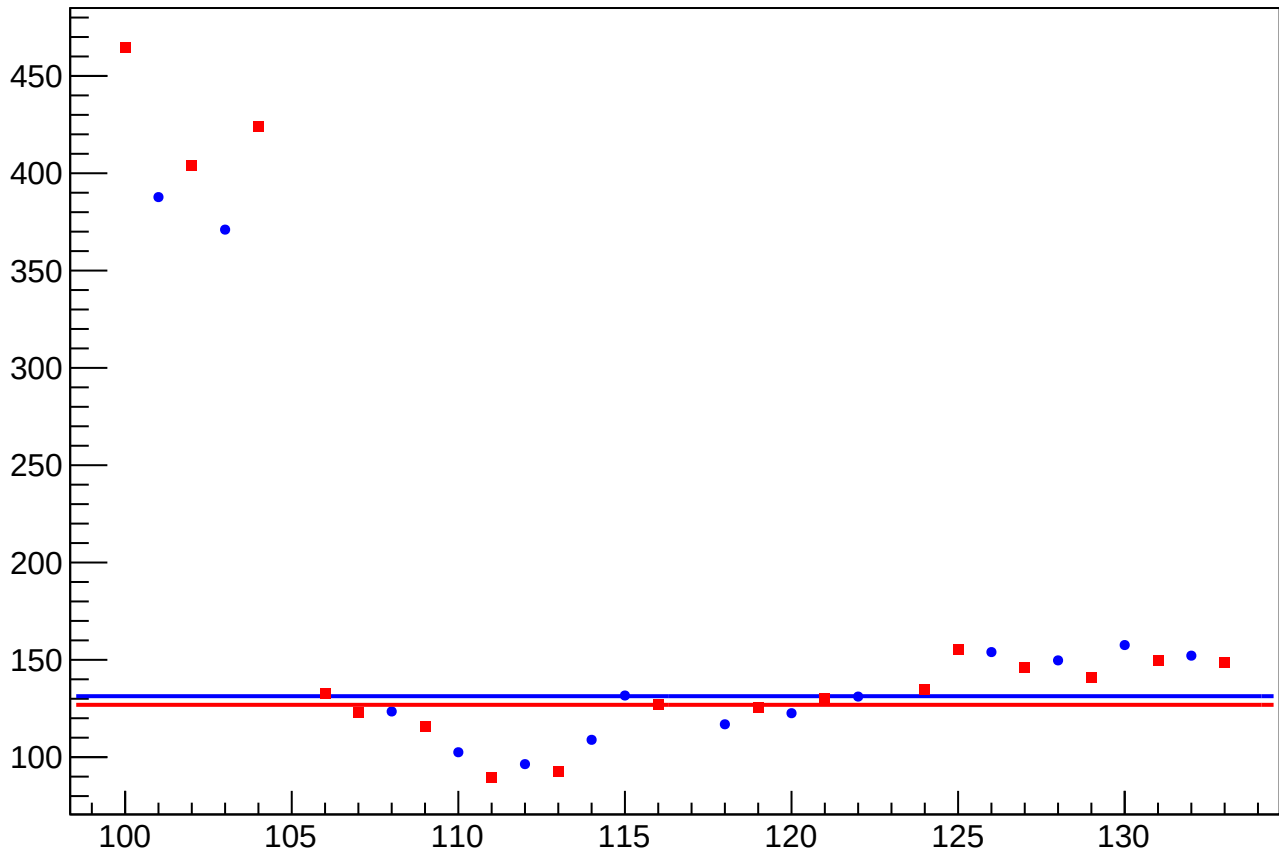
Right Out: 150413.023 $\pm$ 0.053  $\chi^2$ /NDF: 70824477.2/16

All: 150350.004 $\pm$ 0.039  $\chi^2$ /NDF: 10872045

- 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: 131.326 $\pm$ 0.041  $\chi^2$ /NDF: 1323487.6/13

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: 126.882 $\pm$ 0.037  $\chi^2$ /NDF: 1555145.1/16

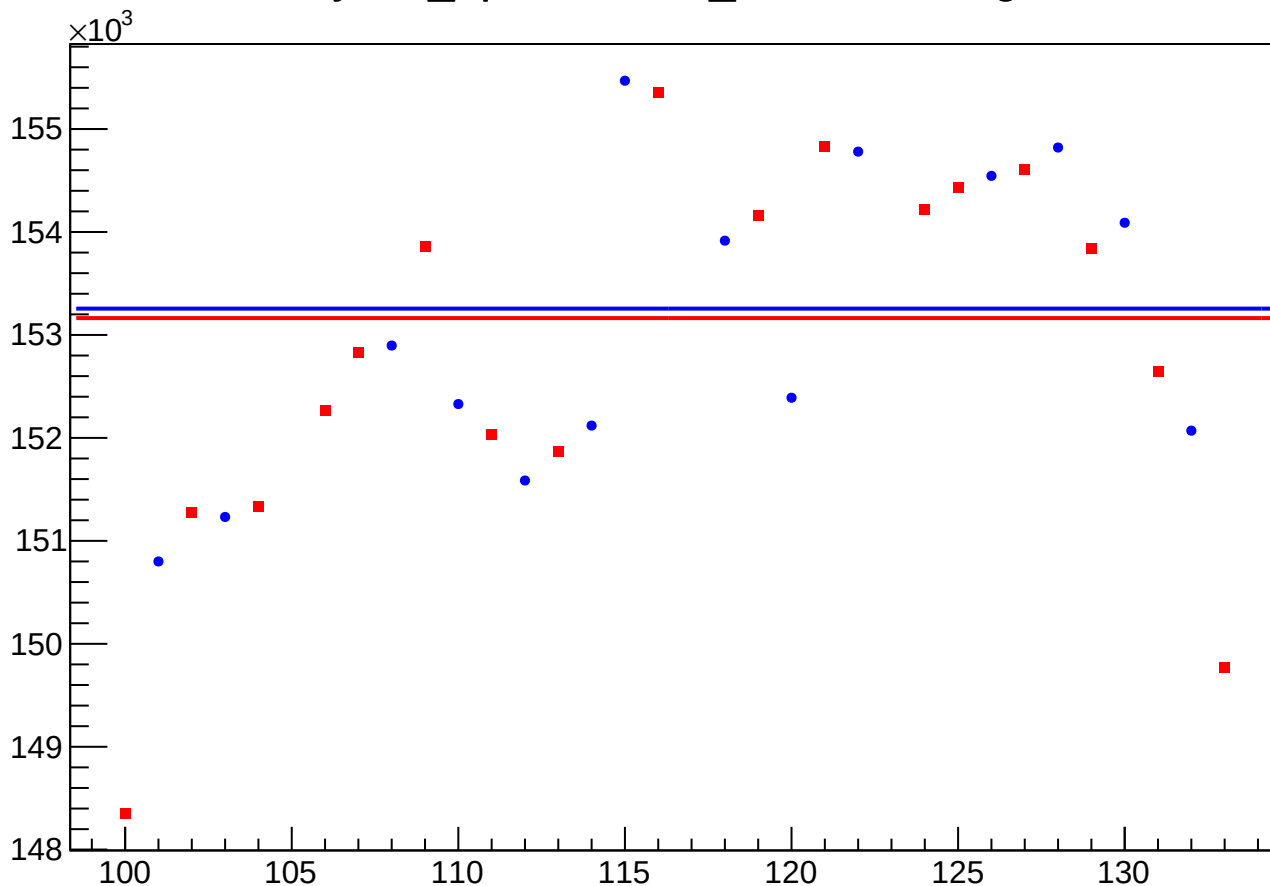
All: 128.867 $\pm$ 0.028  $\chi^2$ /NDF: 2884990.7/30

- 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\_mean vs Slug



Right In: 153255.709 $\pm$ 0.081  $\chi^2$ /NDF: 258924008.2/13

+ 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

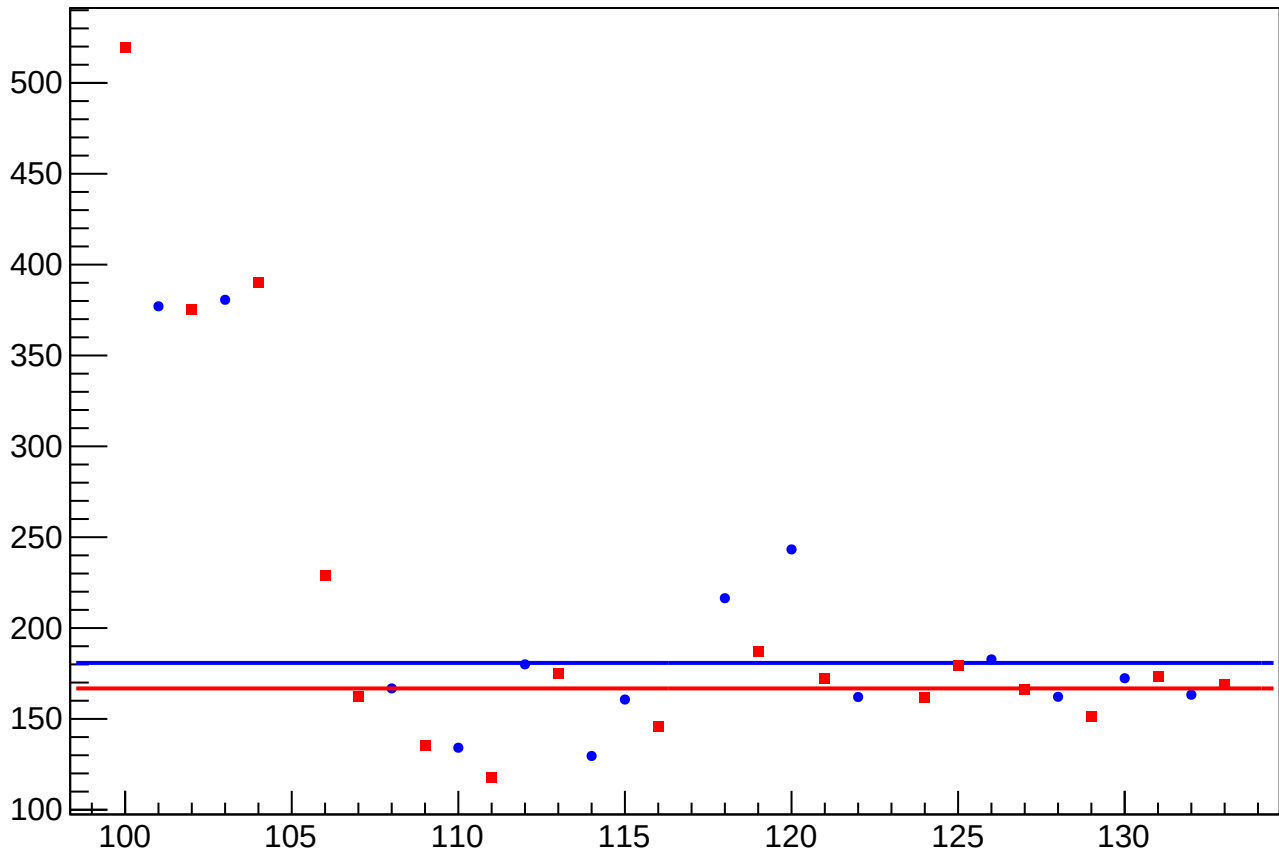
All: 153202.801 $\pm$ 0.053  $\chi^2$ /NDF: 719395249

Right Out: 153163.733 $\pm$ 0.070  $\chi^2$ /NDF: 459727484.8/16

- 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

# yield\_bpm0i07WS\_rms vs Slug



Right In: 180.812 $\pm$ 0.057  $\chi^2$ /NDF: 907725.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 166.773 $\pm$ 0.049  $\chi^2$ /NDF: 1075884.7/16

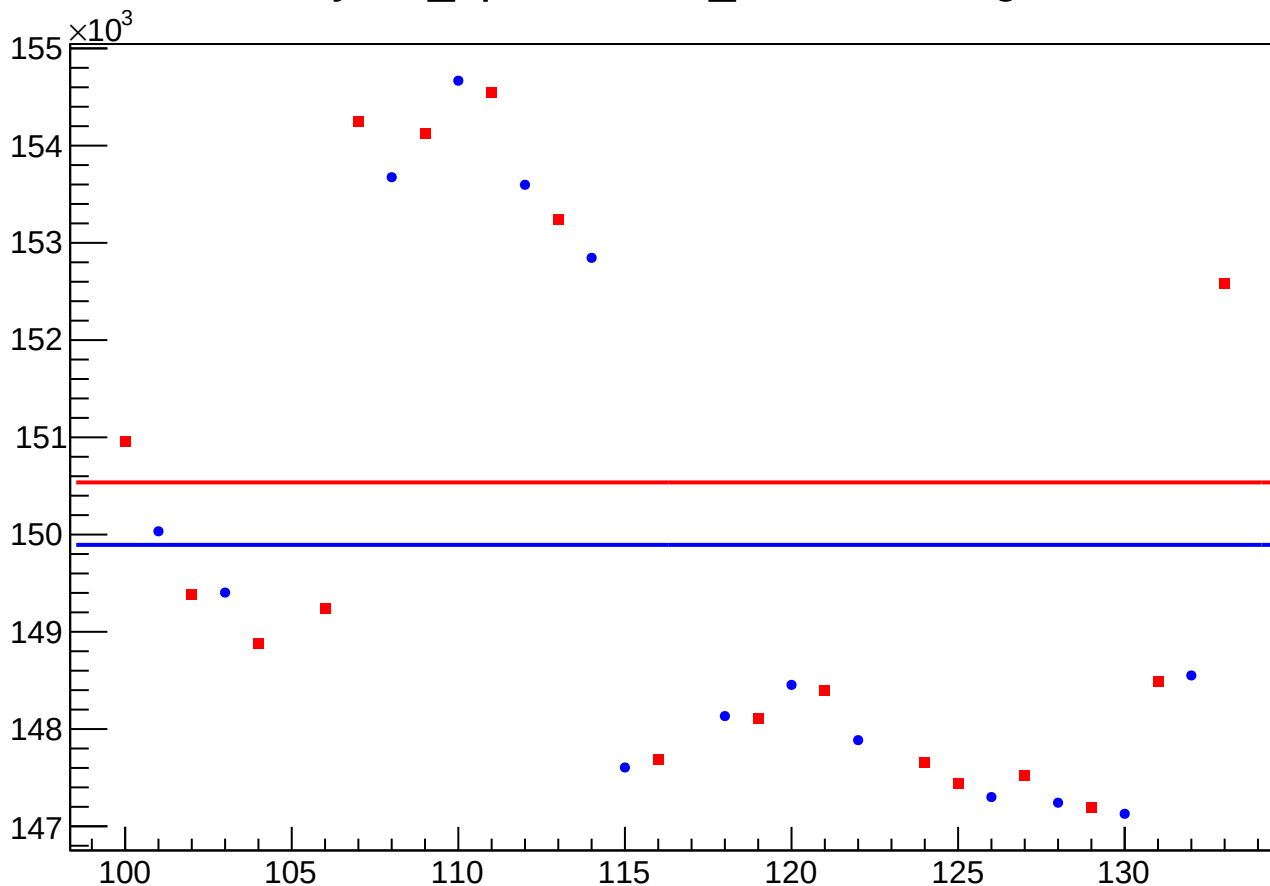
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 172.736 $\pm$ 0.037  $\chi^2$ /NDF: 2018263.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i01WS\_mean vs Slug



Right In: 149894.111 $\pm$ 0.067  $\chi^2$ /NDF: 1811512023.2/13

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

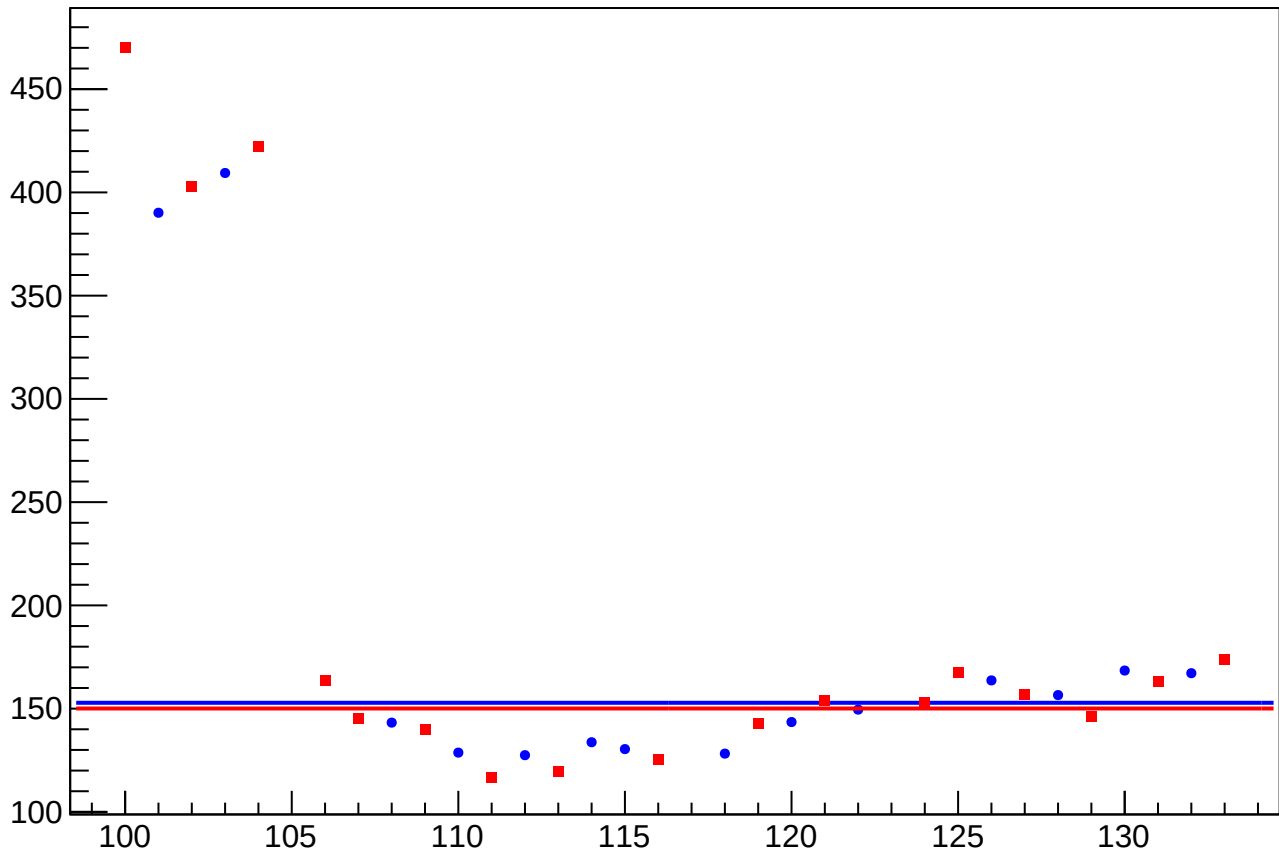
Right Out: 150536.383 $\pm$ 0.062  $\chi^2$ /NDF: 2282333710.4/16

All: 150241.658 $\pm$ 0.046  $\chi^2$ /NDF: 414315950

- 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: 152.833+/-0.048  $\chi^2/\text{NDF}$ : 1094258.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 150.070+/-0.044  $\chi^2/\text{NDF}$ : 1197269.6/16

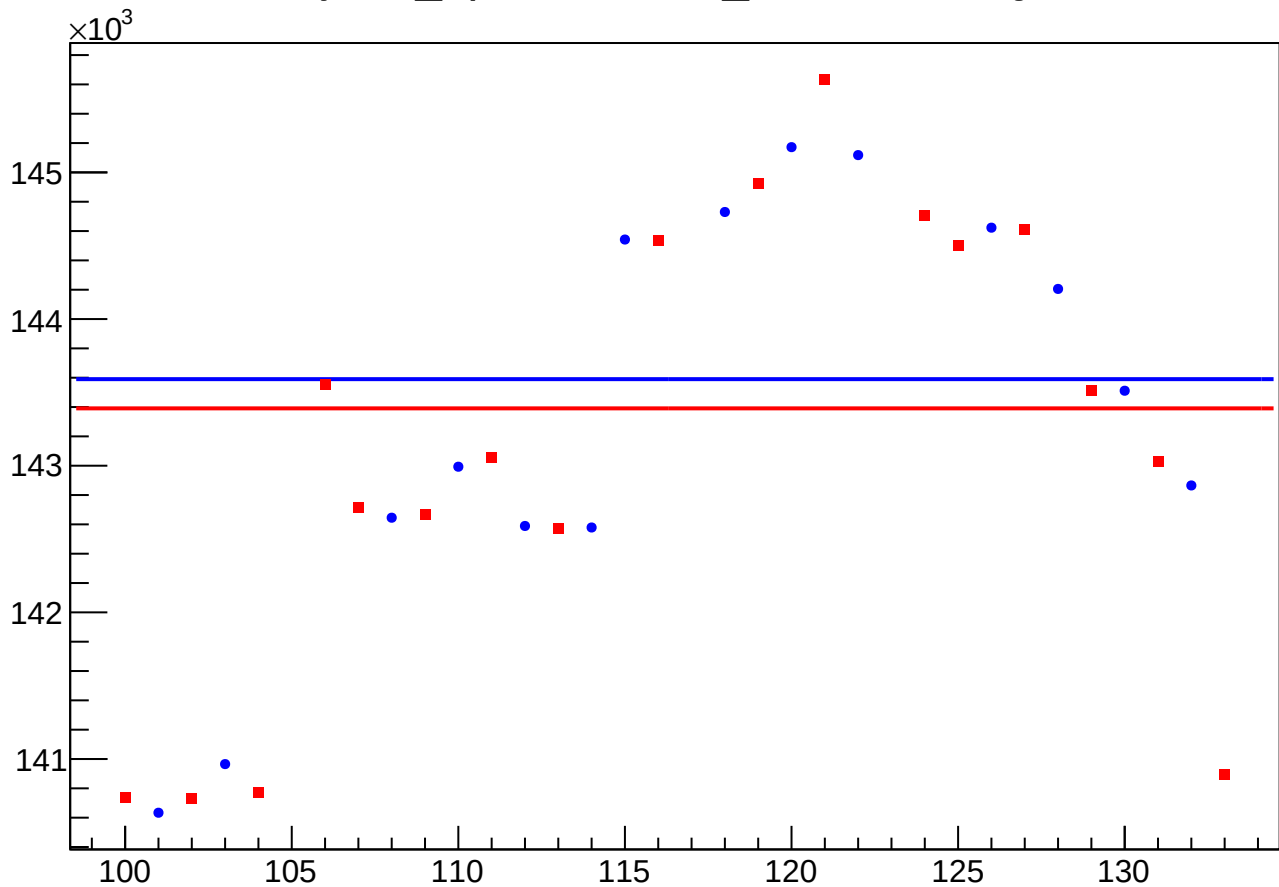
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 151.338+/-0.032  $\chi^2/\text{NDF}$ : 2293353.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aWS\_mean vs Slug



Right In: 143590.236 $\pm$ 0.057  $\chi^2$ /NDF: 375696766.7/13

+ 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

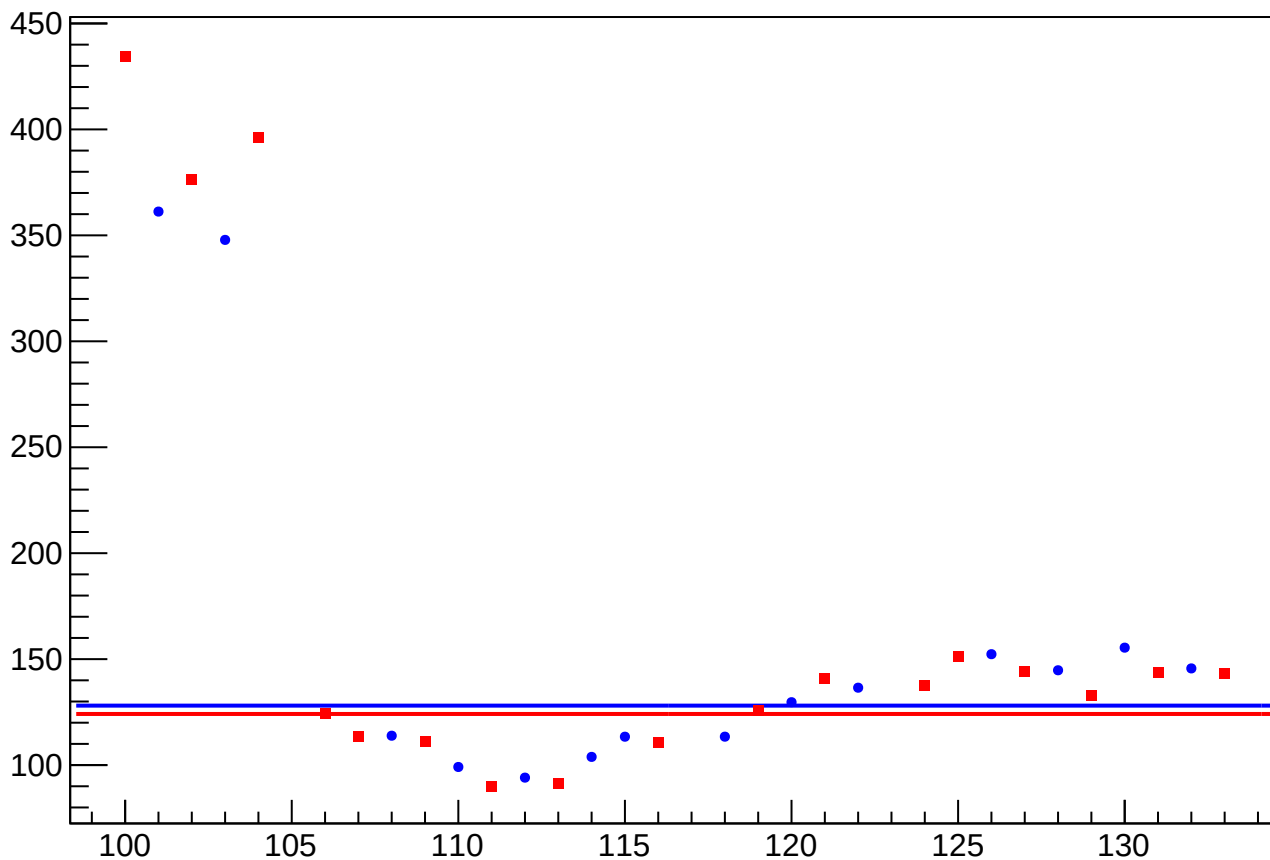
Right Out: 143390.978 $\pm$ 0.051  $\chi^2$ /NDF: 551473803.4/16

All: 143480.038 $\pm$ 0.038  $\chi^2$ /NDF: 933891848

- 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: 128.062 $\pm$ 0.040  $\chi^2$ /NDF: 1299824.9/13

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

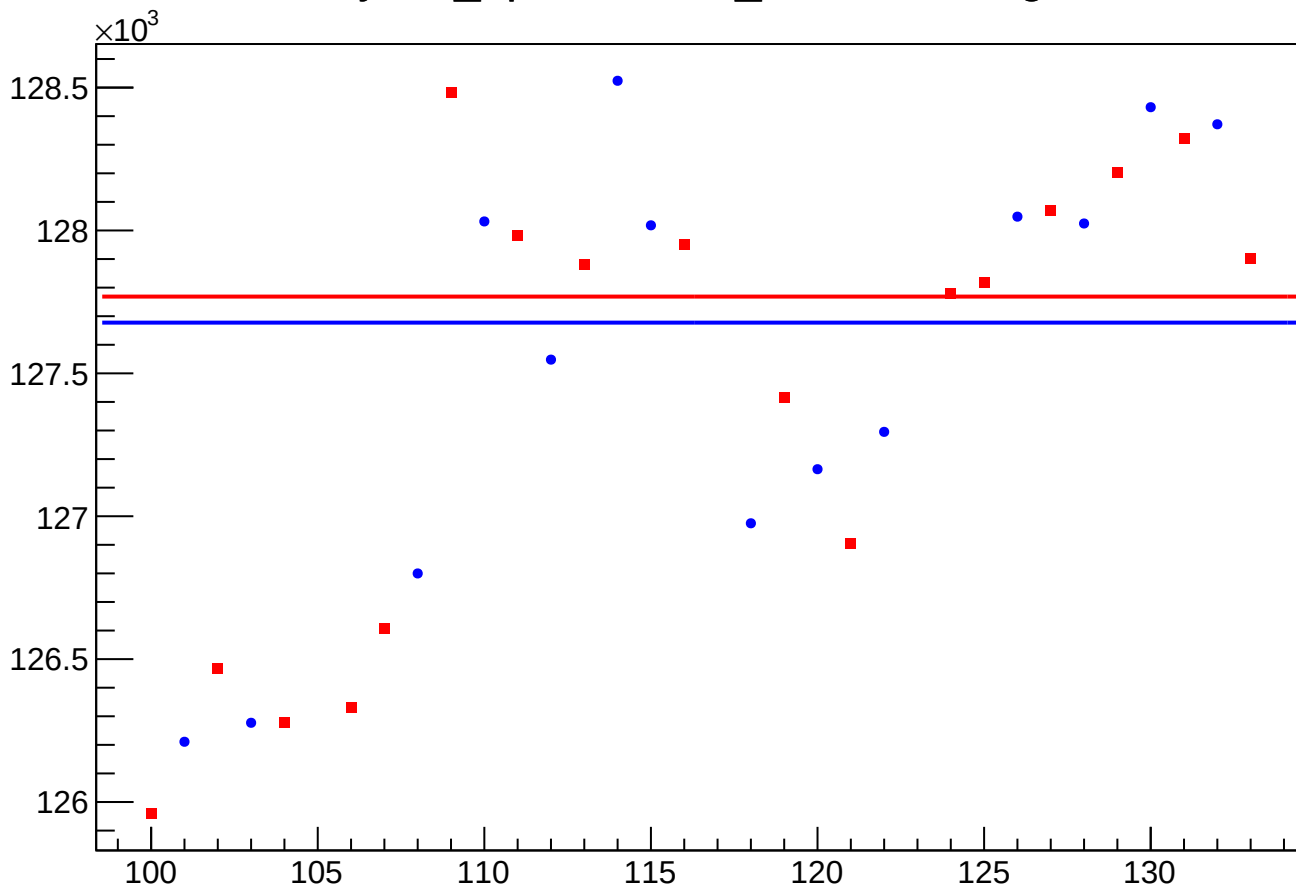
Right Out: 124.122 $\pm$ 0.036  $\chi^2$ /NDF: 1493407.7/16

All: 125.883 $\pm$ 0.027  $\chi^2$ /NDF: 2798489.2/30

- 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\_mean vs Slug



Right In: 127677.514 $\pm$ 0.064  $\chi^2$ /NDF: 99201368.8/13

+ 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

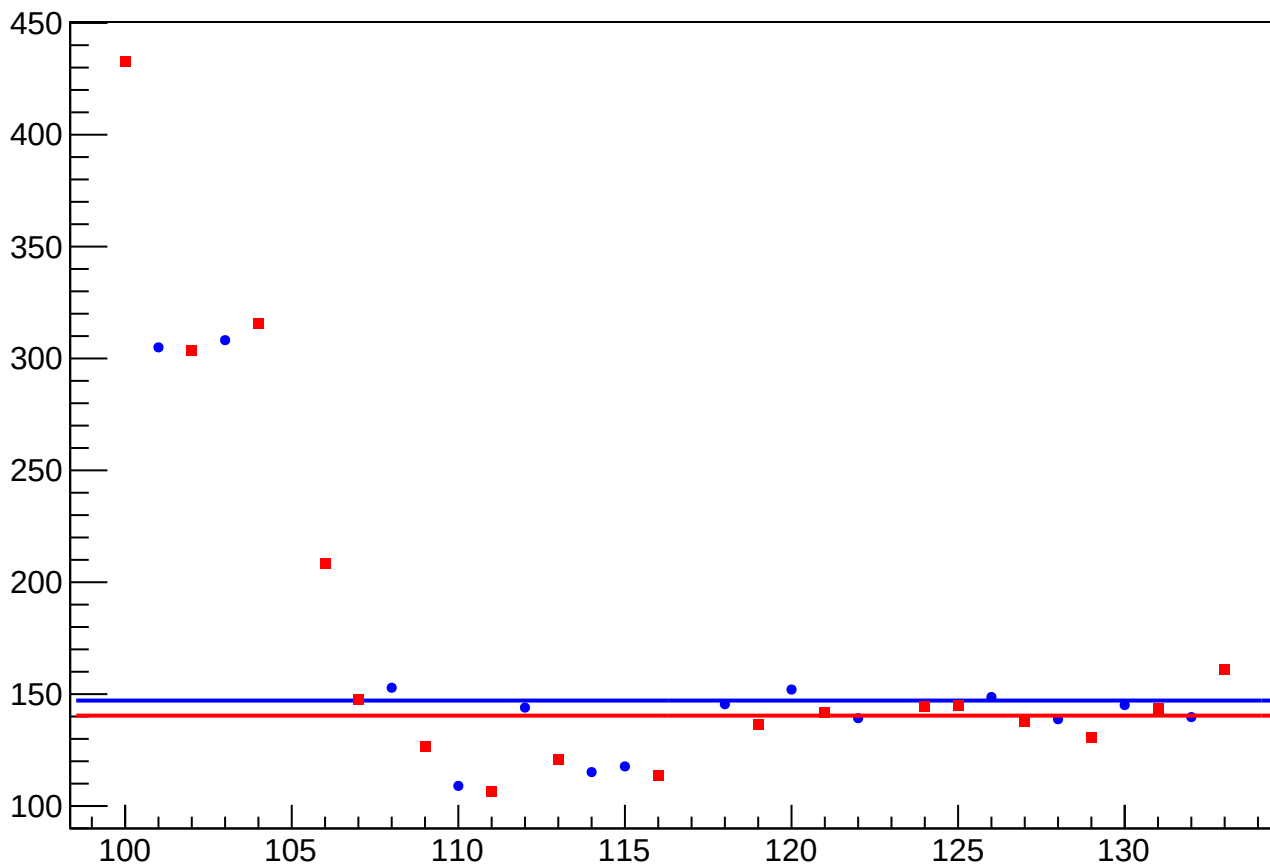
All: 127728.309 $\pm$ 0.043  $\chi^2$ /NDF: 204001780

Right Out: 127768.648 $\pm$ 0.057  $\chi^2$ /NDF: 103675672.8/16

- 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

# yield\_bpm0l01WS\_rms vs Slug



Right In: 147.133+/-0.045  $\chi^2/\text{NDF}$ : 811041.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 140.397+/-0.040  $\chi^2/\text{NDF}$ : 990050.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

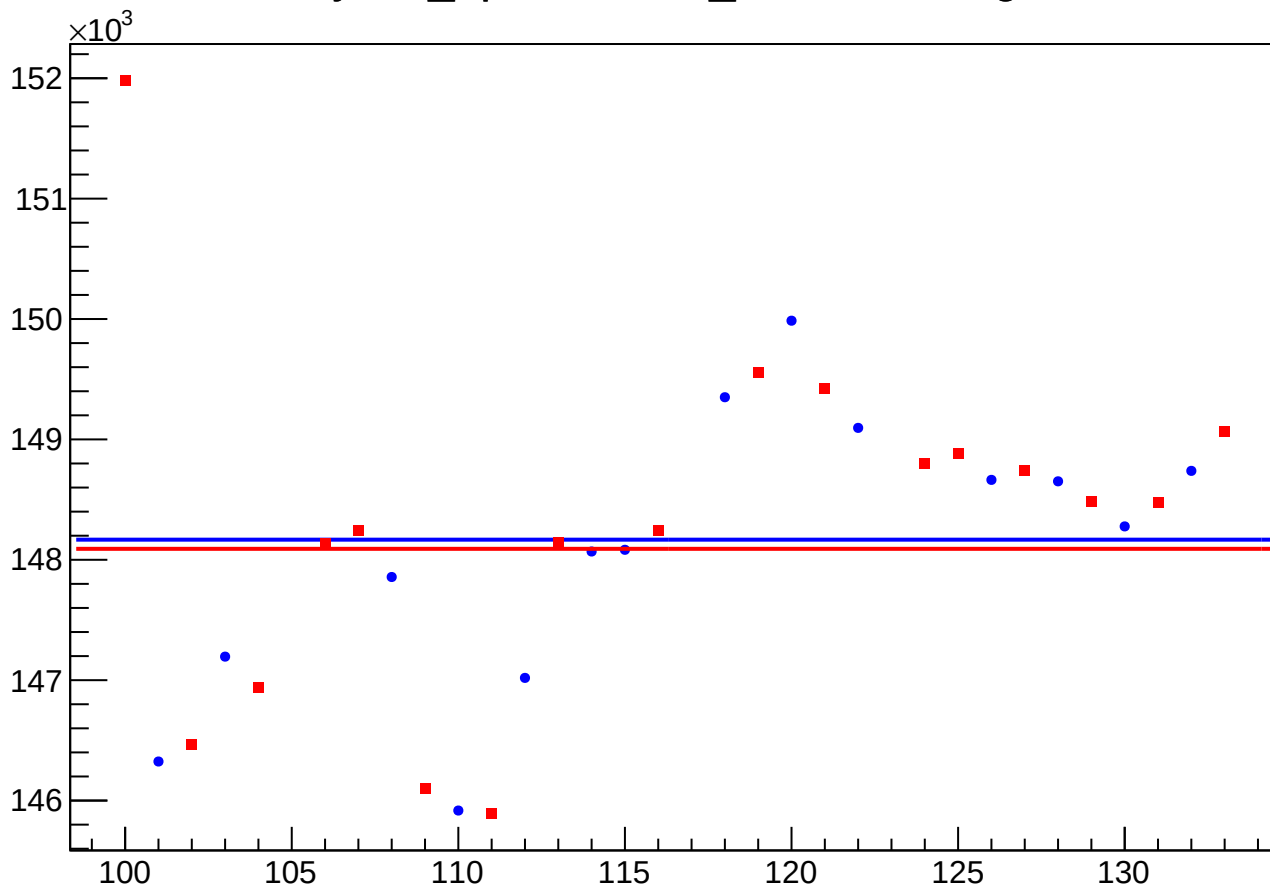
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 143.379+/-0.030  $\chi^2/\text{NDF}$ : 1813380.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l02WS\_mean vs Slug



Right In: 148167.186 $\pm$ 0.091  $\chi^2$ /NDF: 115586466.6/13

+ 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

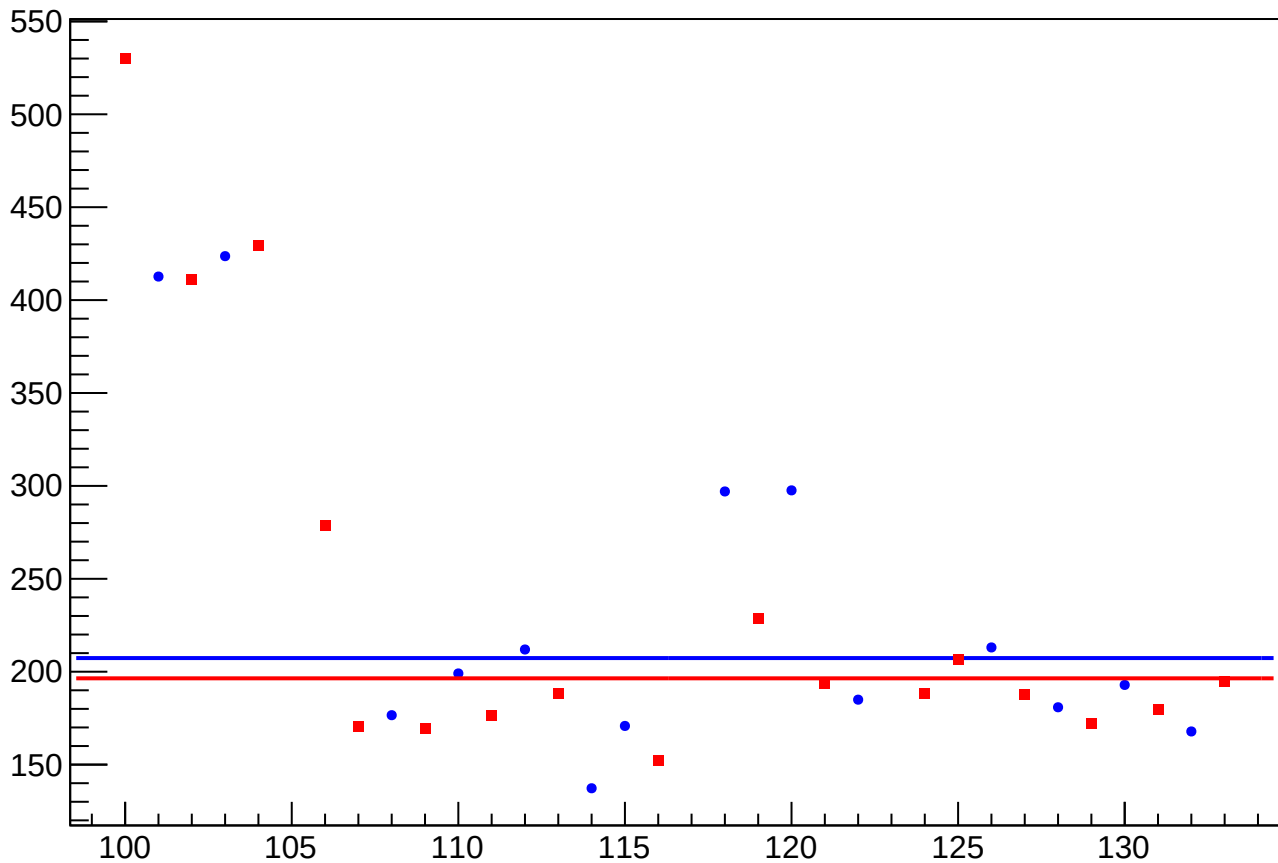
All: 148124.145 $\pm$ 0.060  $\chi^2$ /NDF: 34163615

Right Out: 148091.001 $\pm$ 0.080  $\chi^2$ /NDF: 225654973.3/16

- 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

# yield\_bpm0l02WS\_rms vs Slug



Right In: 207.342+/-0.064  $\chi^2/\text{NDF}$ : 971423.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 196.437+/-0.057  $\chi^2/\text{NDF}$ : 899128.3/16

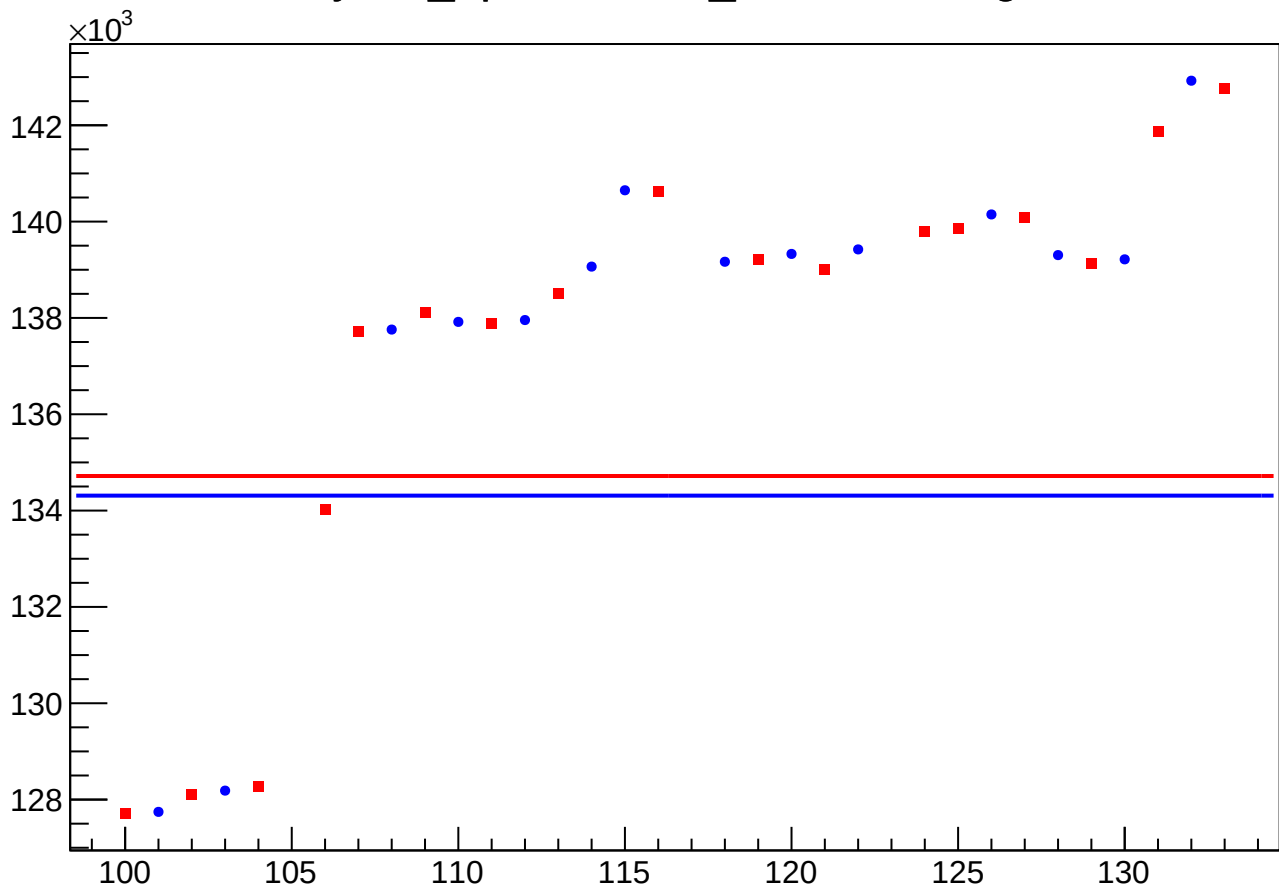
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 201.181+/-0.043  $\chi^2/\text{NDF}$ : 1886726.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03WS\_mean vs Slug



Right In: 134310.589 $\pm$ 0.188  $\chi^2$ /NDF: 945270162.4/13

+ 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

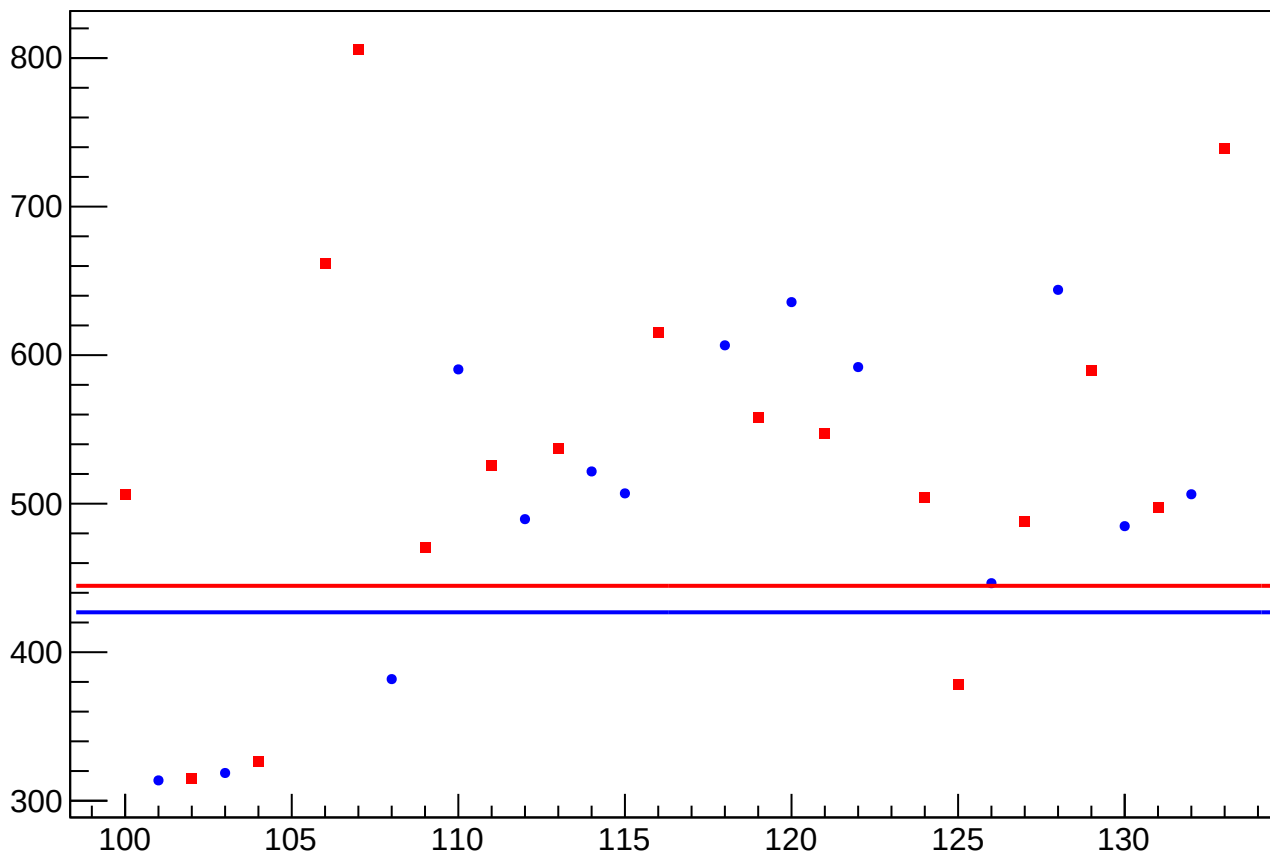
Right Out: 134718.049 $\pm$ 0.187  $\chi^2$ /NDF: 882472193.9/16

All: 134516.062 $\pm$ 0.132  $\chi^2$ /NDF: 183010849

- 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: 426.866+/-0.133  $\chi^2/\text{NDF}$ : 752563.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 444.696+/-0.132  $\chi^2/\text{NDF}$ : 846165.5/16

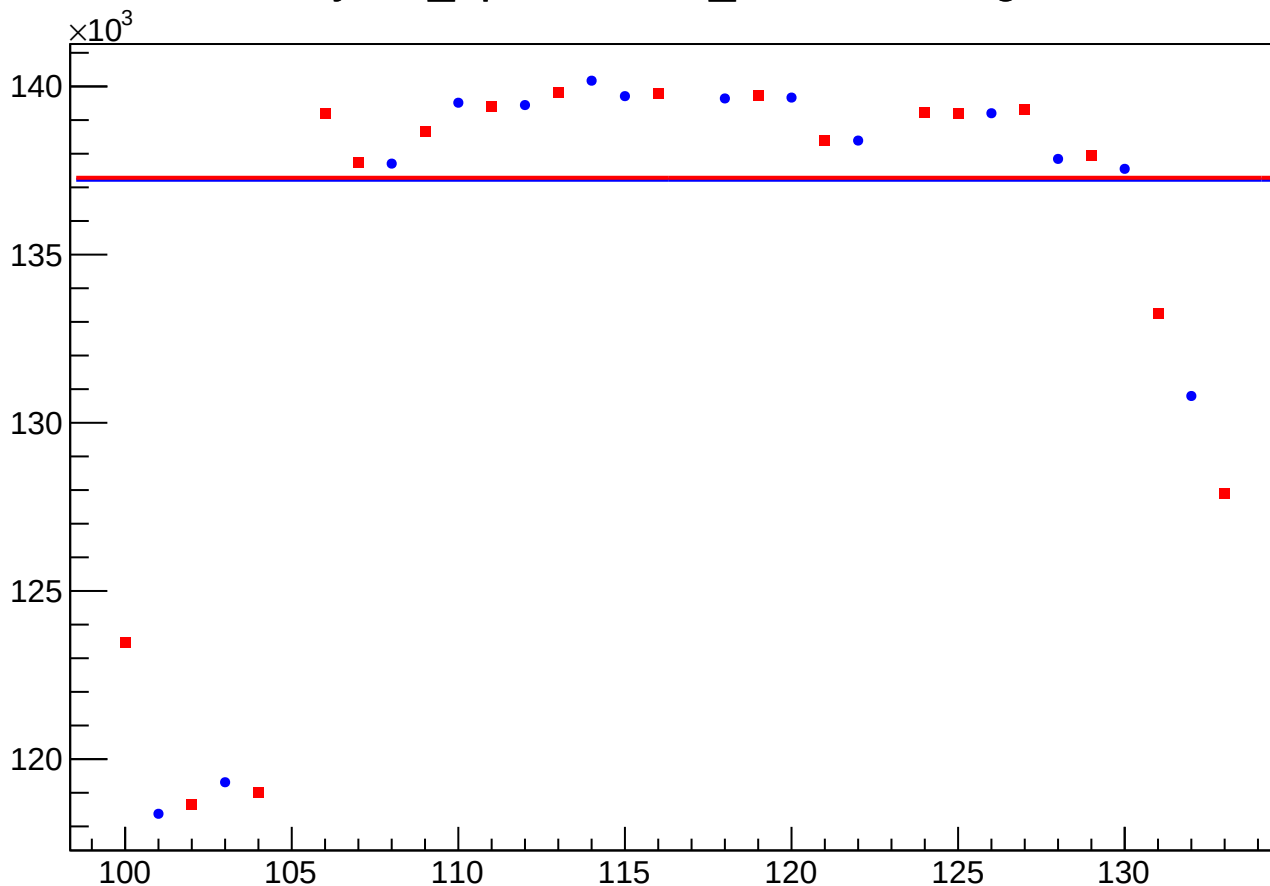
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 435.857+/-0.094  $\chi^2/\text{NDF}$ : 1607790.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04WS\_mean vs Slug



Right In: 137225.838 $\pm$ 0.075  $\chi^2$ /NDF: 4978470361.6/13

+ 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

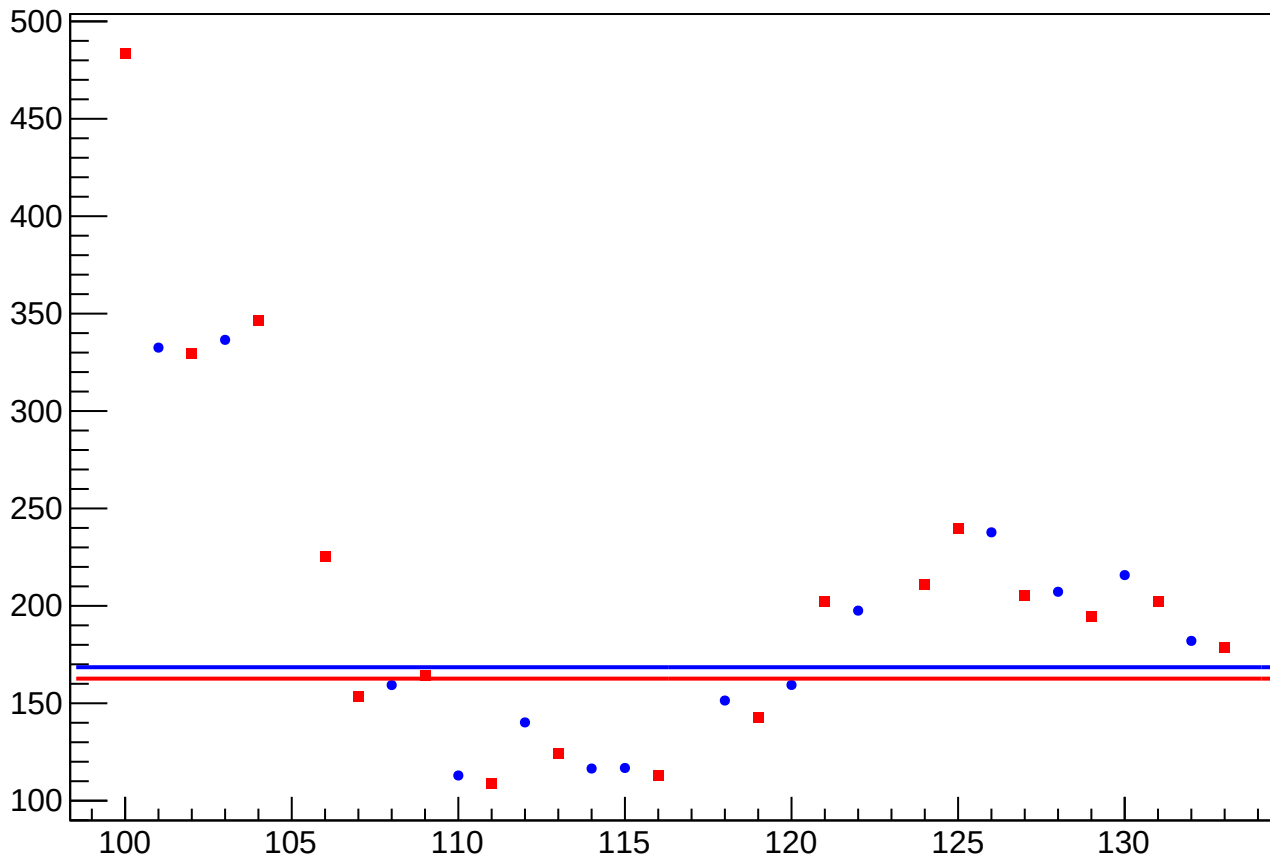
All: 137258.519 $\pm$ 0.050  $\chi^2$ /NDF: 107073032

Right Out: 137285.193 $\pm$ 0.067  $\chi^2$ /NDF: 5728485281.5/16

- 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

# yield\_bpm0l04WS\_rms vs Slug



Right In: 168.507 $\pm$ 0.053  $\chi^2$ /NDF: 1100078.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 162.658 $\pm$ 0.048  $\chi^2$ /NDF: 1354136.4/16

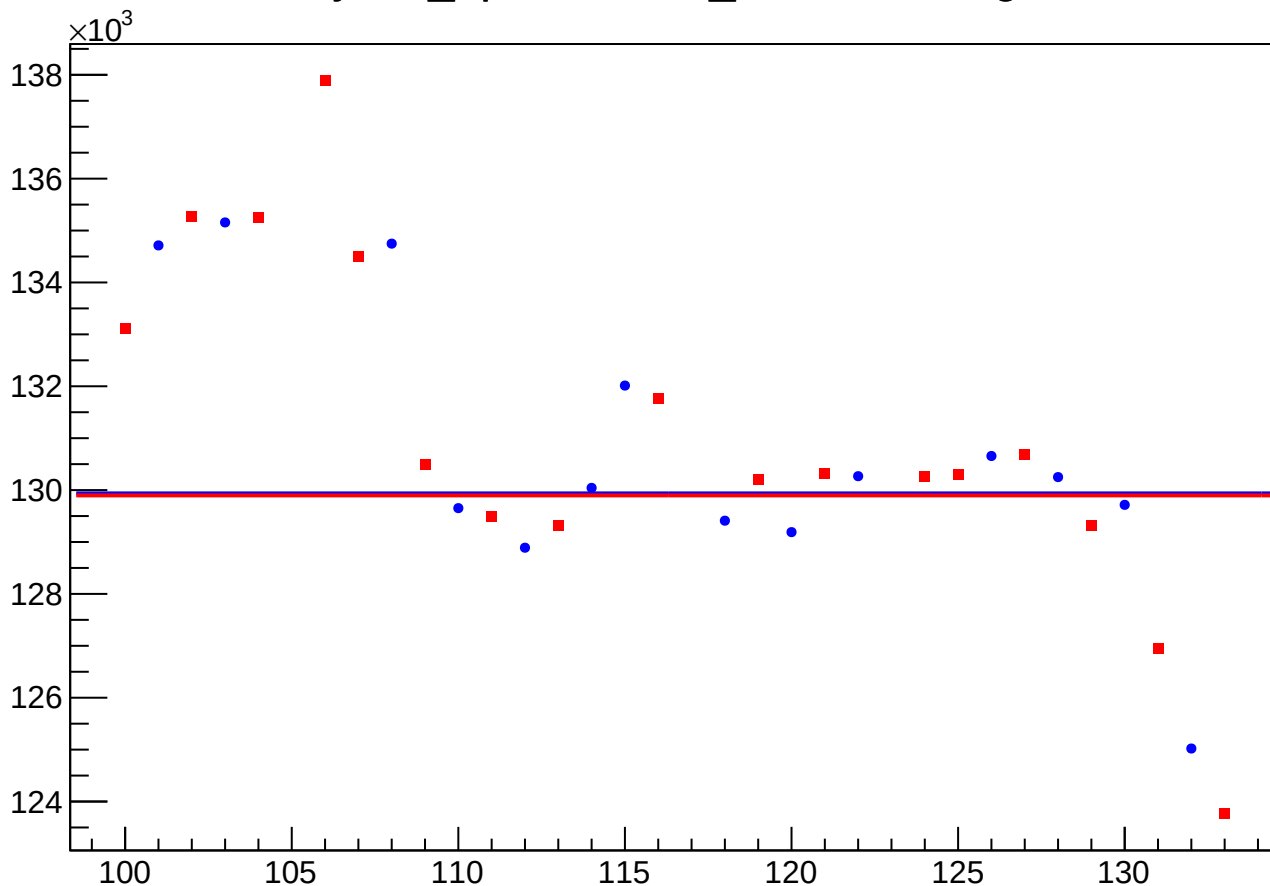
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 165.287 $\pm$ 0.035  $\chi^2$ /NDF: 2460967.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l05WS\_mean vs Slug



Right In: 129936.078 $\pm$ 0.074  $\chi^2$ /NDF: 1112220534.2/13

+ 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

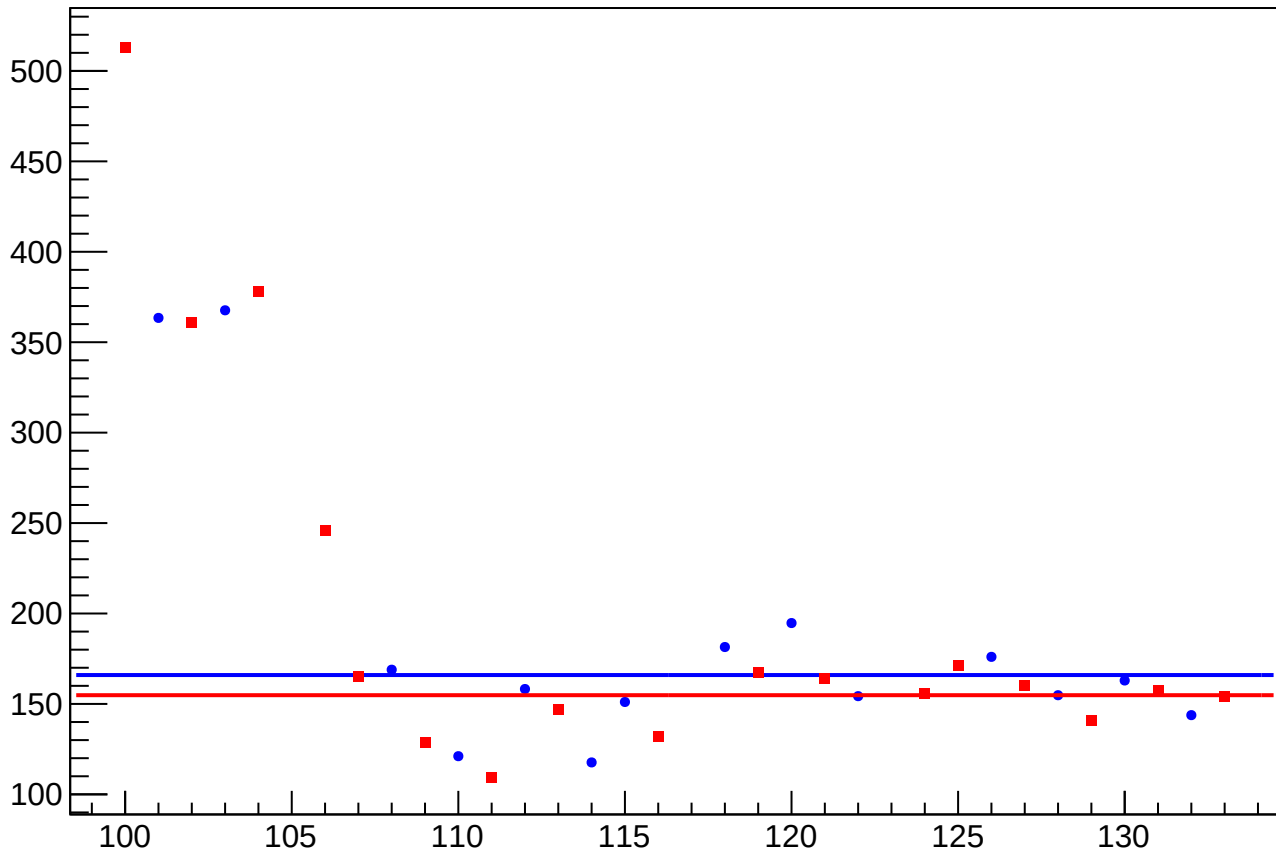
All: 129914.471 $\pm$ 0.048  $\chi^2$ /NDF: 276867134

Right Out: 129898.057 $\pm$ 0.064  $\chi^2$ /NDF: 1656298874.4/16

- 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

# yield\_bpm0l05WS\_rms vs Slug



Right In: 165.970+/-0.052  $\chi^2/\text{NDF}$ : 937467.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 154.831+/-0.045  $\chi^2/\text{NDF}$ : 1158302.2/16

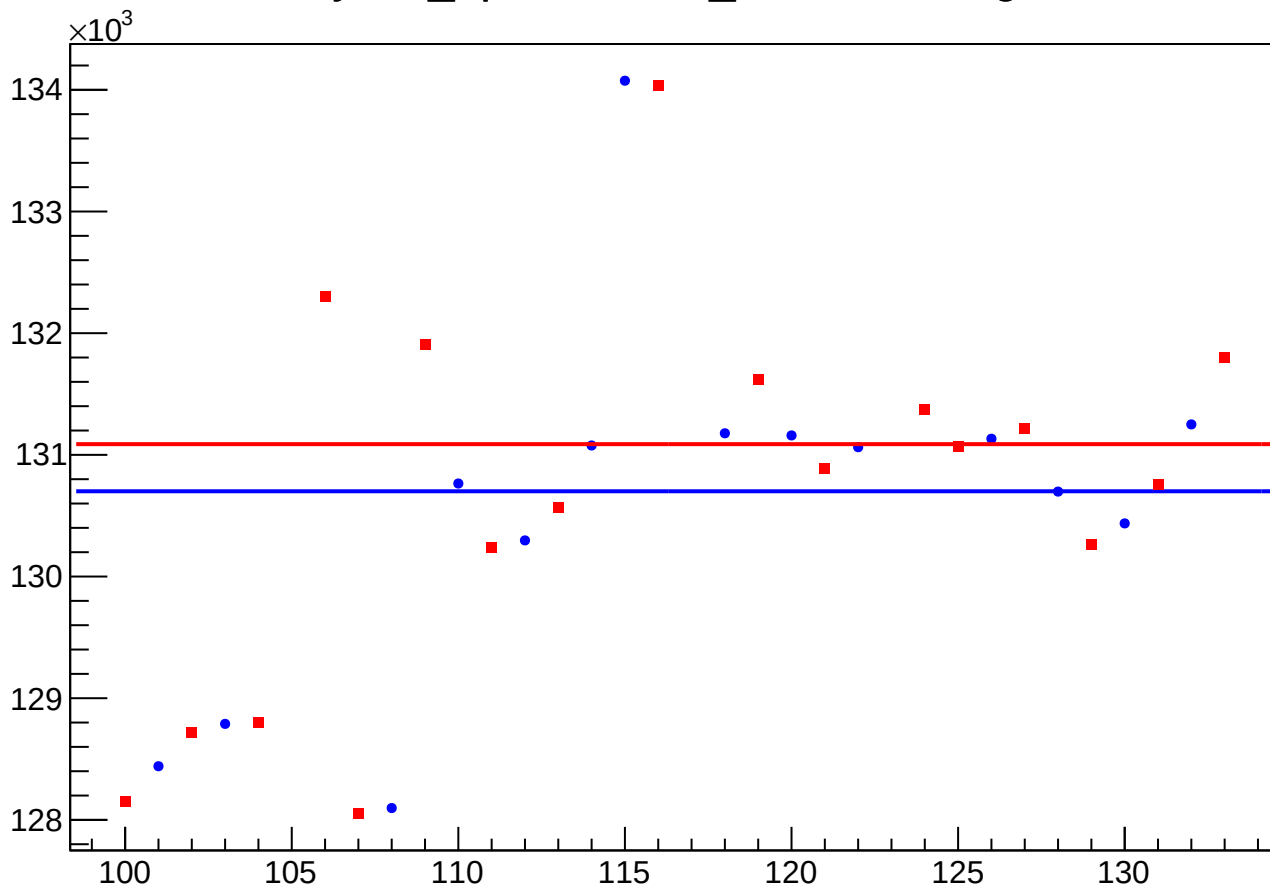
All: 159.640+/-0.034  $\chi^2/\text{NDF}$ : 2121854.9/30

- 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\_bpm0l06WS\_mean vs Slug



Right In: 130700.732 $\pm$ 0.066  $\chi^2$ /NDF: 313972280.9/13

+ 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

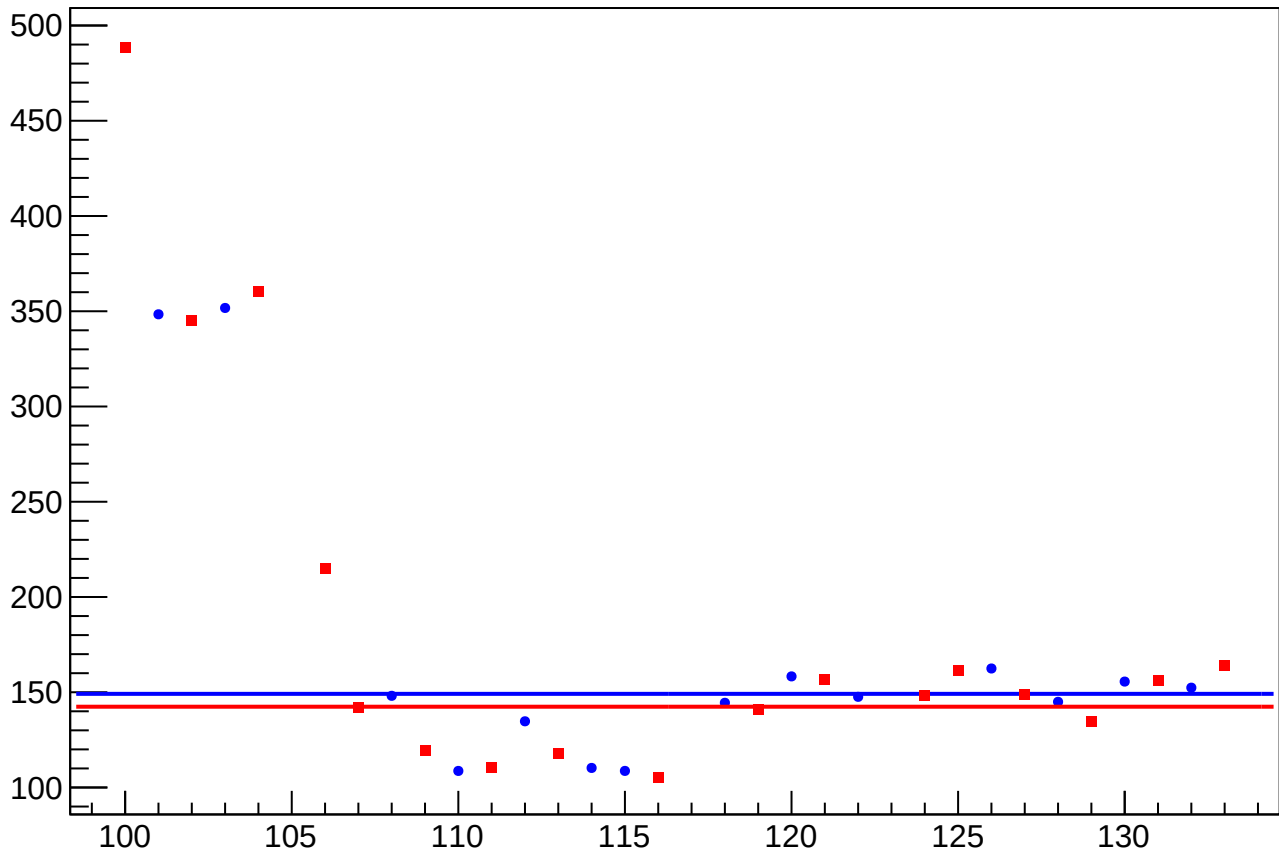
Right Out: 131088.015 $\pm$ 0.059  $\chi^2$ /NDF: 458275310.5/16

All: 130916.389 $\pm$ 0.044  $\chi^2$ /NDF: 791662770

- 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: 149.157+/-0.046  $\chi^2/\text{NDF}$ : 1011124.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 142.407+/-0.041  $\chi^2/\text{NDF}$ : 1212085.7/16

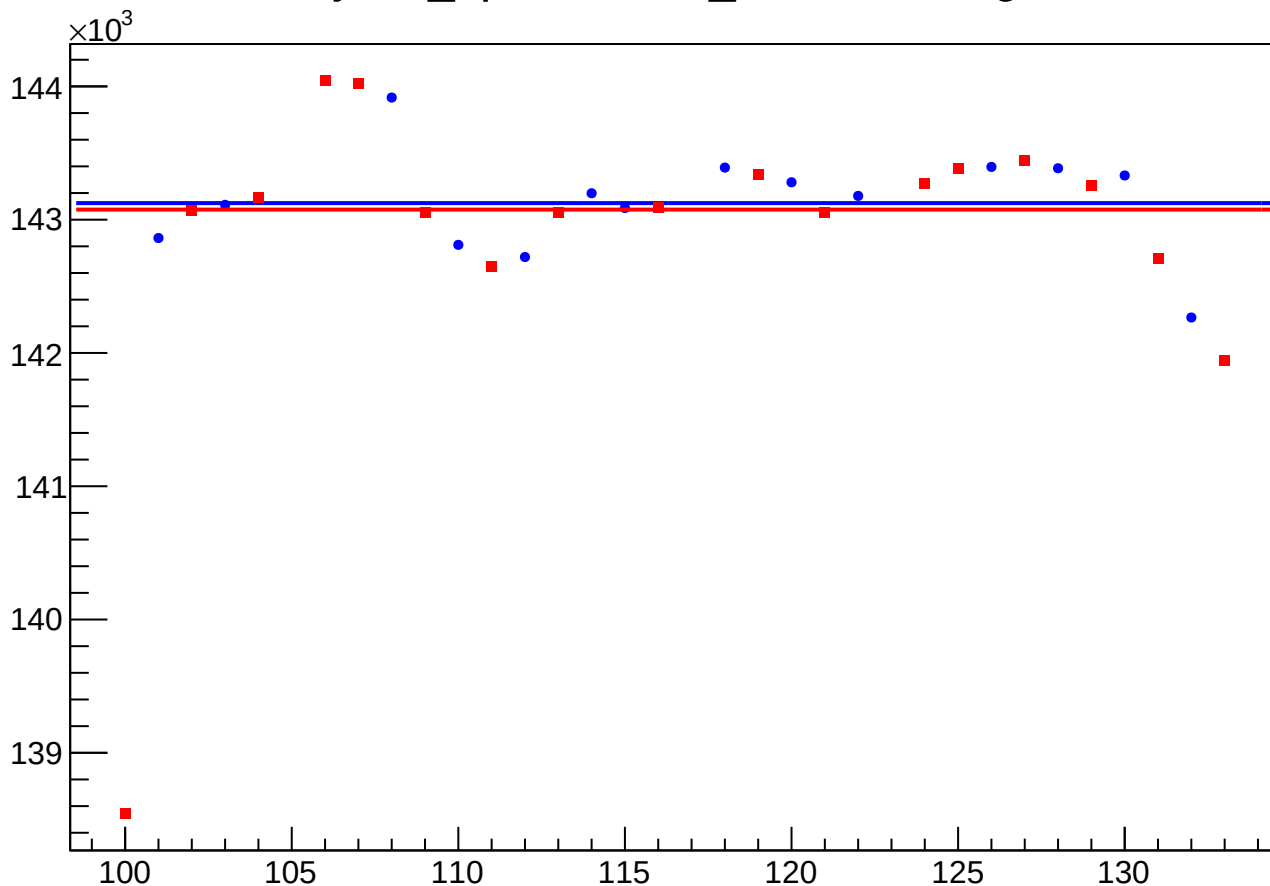
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 145.398+/-0.031  $\chi^2/\text{NDF}$ : 2235006.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07WS\_mean vs Slug



Right In: 143124.398 $\pm$ 0.071  $\chi^2$ /NDF: 32743827.4/13

+ 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

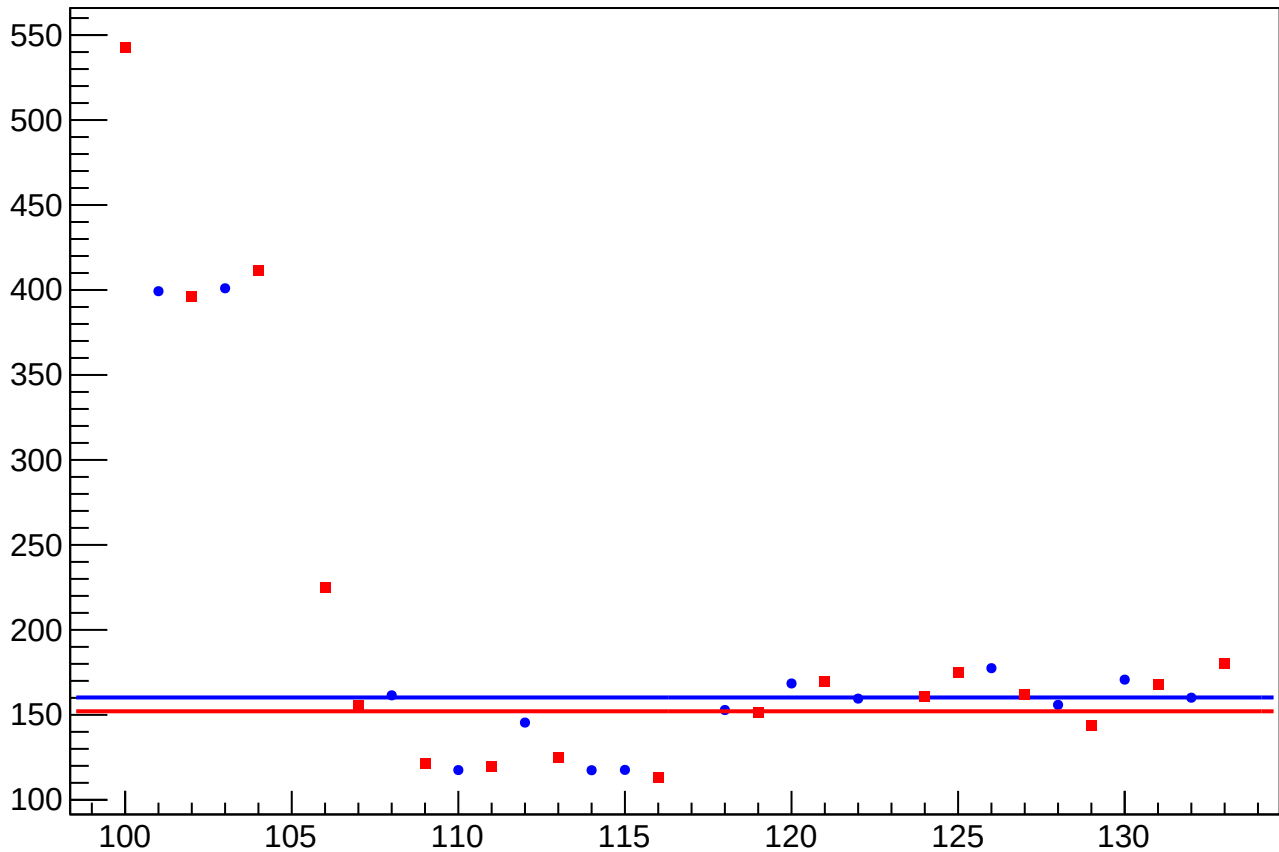
Right Out: 143075.606 $\pm$ 0.063  $\chi^2$ /NDF: 50306201.6/16

All: 143097.127 $\pm$ 0.047  $\chi^2$ /NDF: 83317091.0

- 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: 160.238+/-0.050  $\chi^2/\text{NDF}$ : 1088086.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 152.111+/-0.044  $\chi^2/\text{NDF}$ : 1319395.2/16

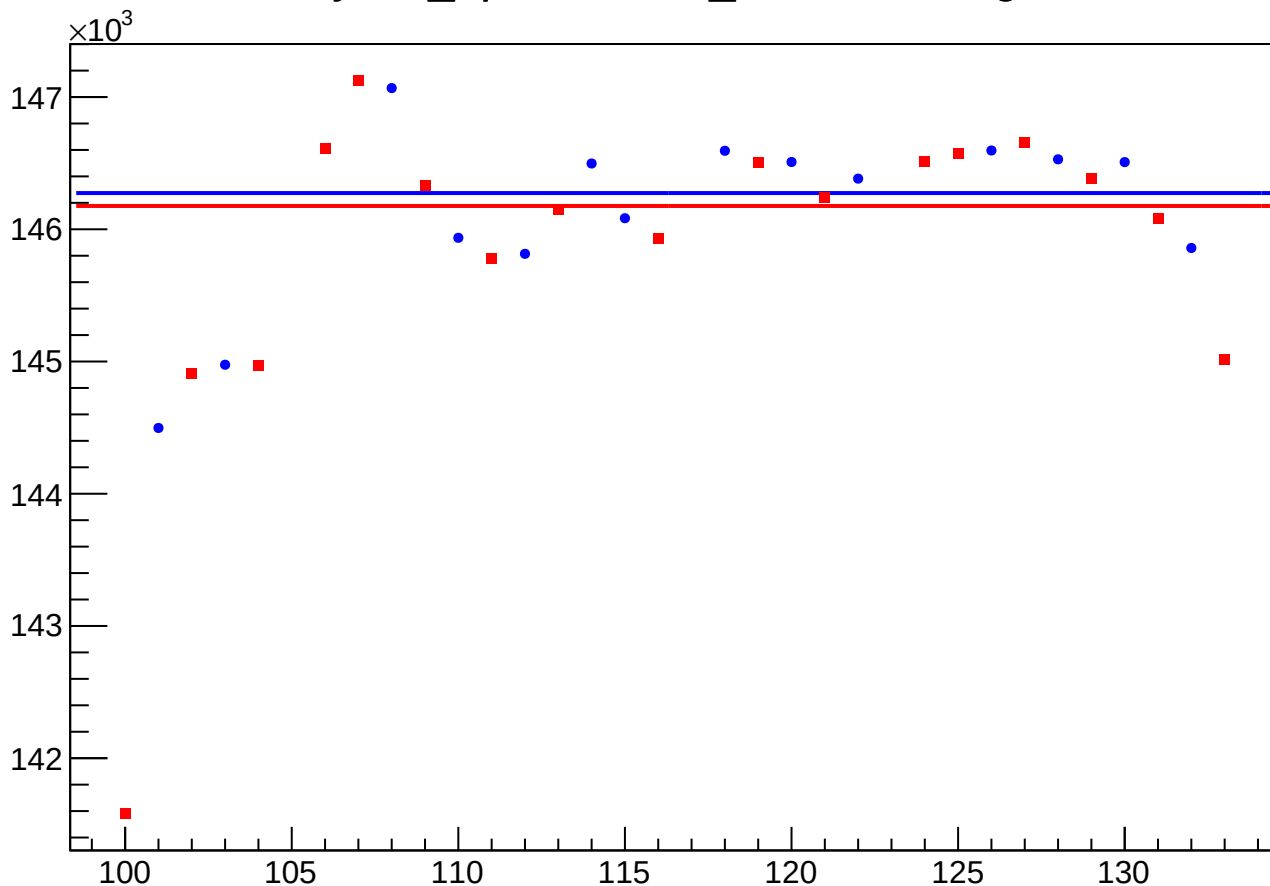
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 155.696+/-0.033  $\chi^2/\text{NDF}$ : 2422299.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08WS\_mean vs Slug



Right In: 146273.940 $\pm$ 0.073  $\chi^2$ /NDF: 44697840.9/13

+ 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

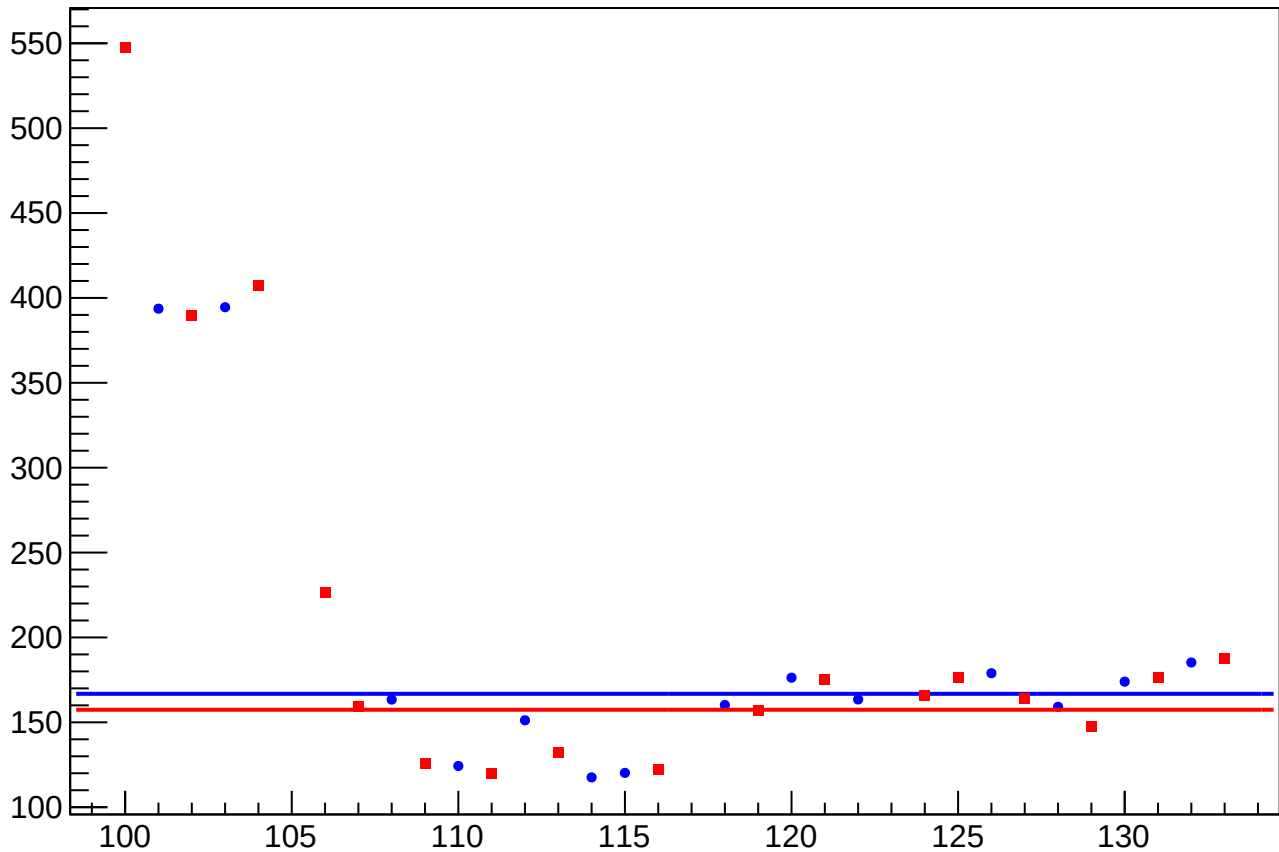
Right Out: 146176.455 $\pm$ 0.065  $\chi^2$ /NDF: 59200254.0/16

All: 146219.101 $\pm$ 0.049  $\chi^2$ /NDF: 104891768

- 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: 166.794+/-0.052  $\chi^2/\text{NDF}$ : 1028036.5/13

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

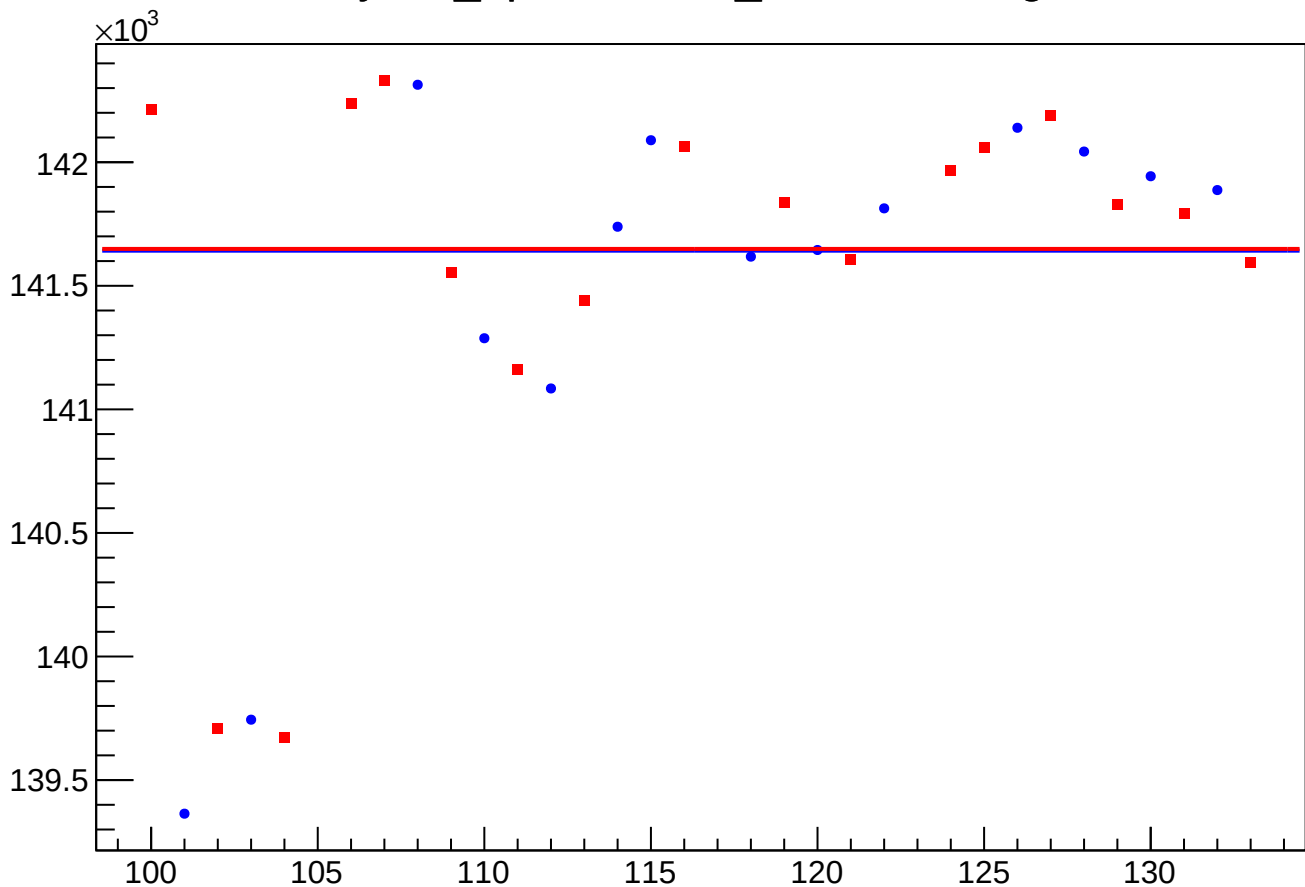
Right Out: 157.409+/-0.046  $\chi^2/\text{NDF}$ : 1252949.5/16

All: 161.514+/-0.034  $\chi^2/\text{NDF}$ : 2299405.0/30

- 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\_bpm0l09WS\_mean vs Slug



Right In: 141642.140 $\pm$ 0.074  $\chi^2$ /NDF: 61038757.1/13

+ 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

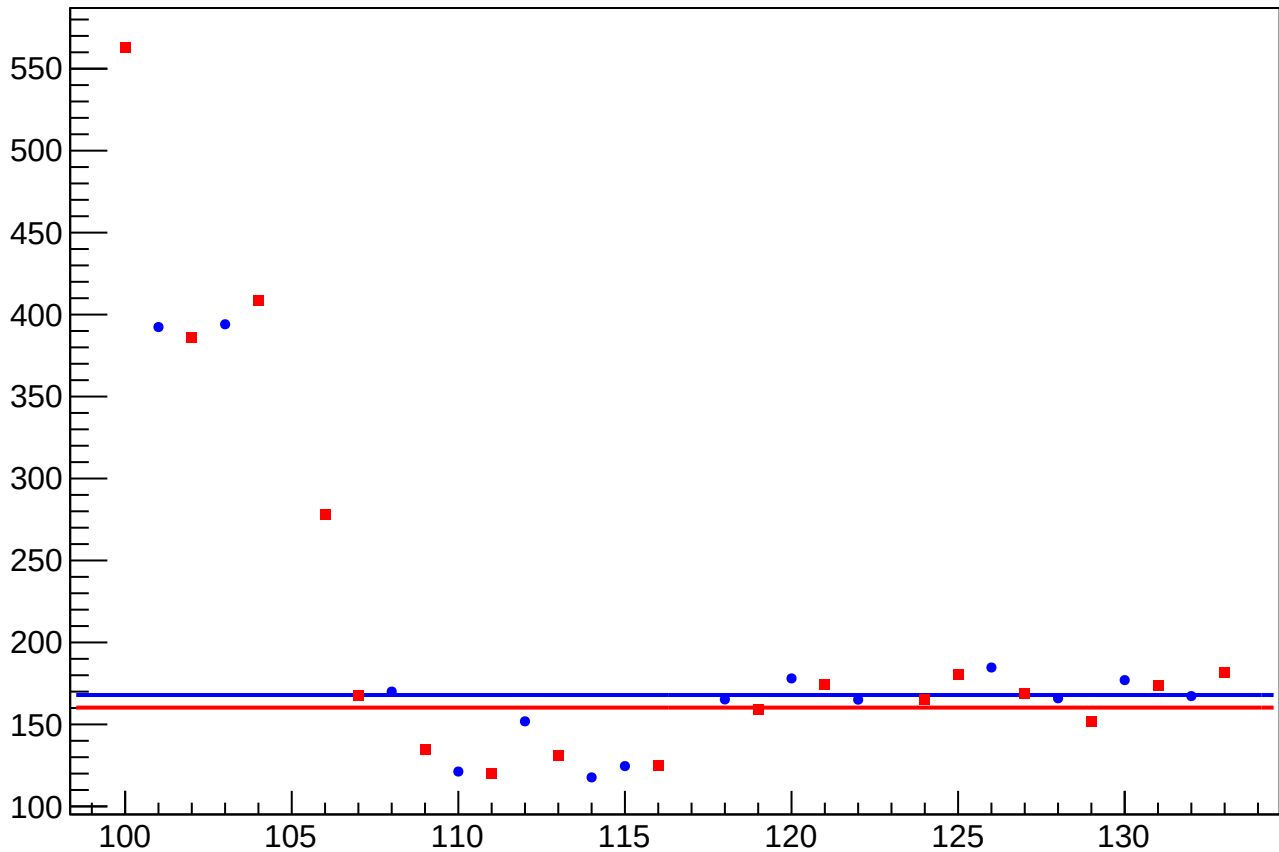
All: 141646.085 $\pm$ 0.049  $\chi^2$ /NDF: 114543222

Right Out: 141649.223 $\pm$ 0.066  $\chi^2$ /NDF: 53499343.4/16

- 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

# yield\_bpm0l09WS\_rms vs Slug



Right In: 167.943+/-0.052  $\chi^2/\text{NDF}$ : 1024031.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 160.261+/-0.047  $\chi^2/\text{NDF}$ : 1256120.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

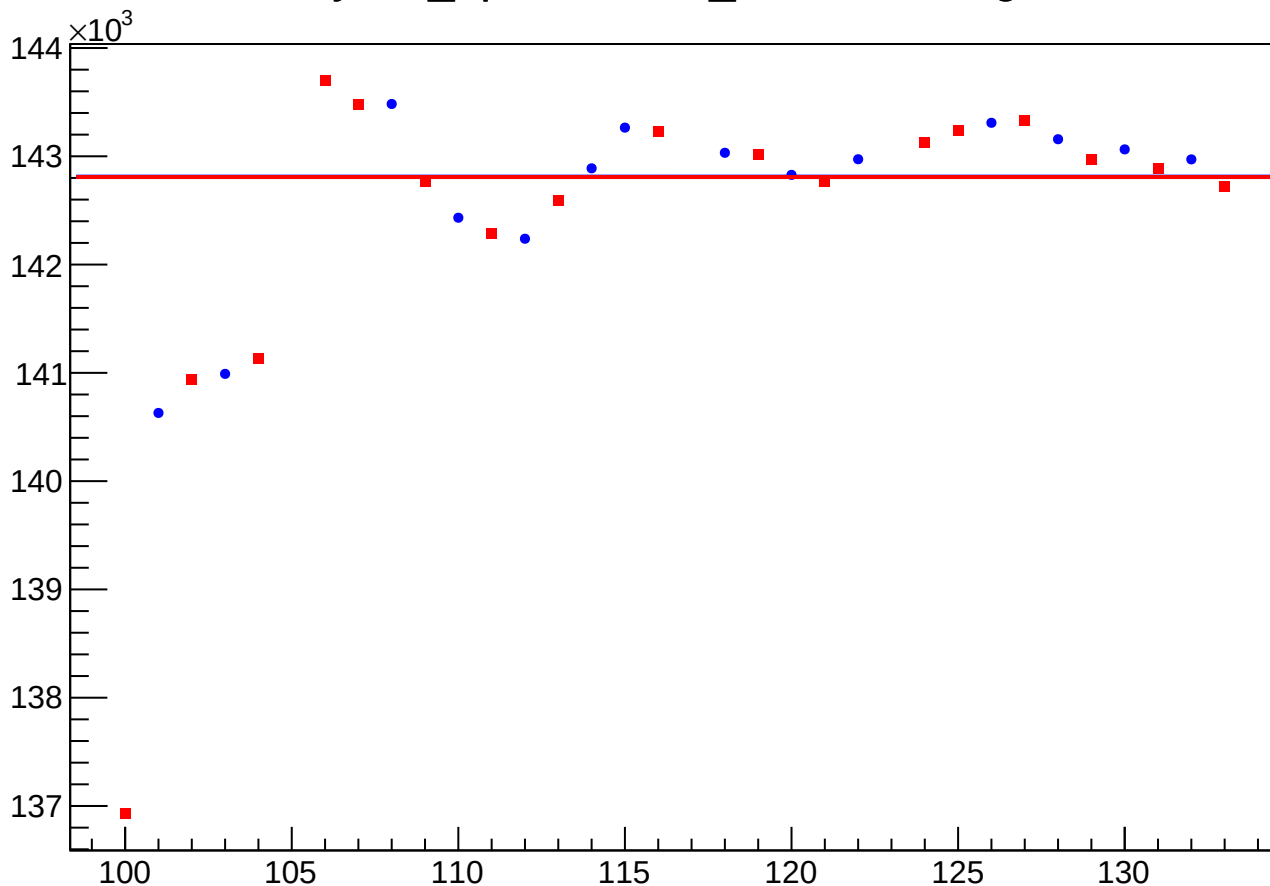
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 163.664+/-0.035  $\chi^2/\text{NDF}$ : 2292201.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l10WS\_mean vs Slug



Right In: 142812.069 $\pm$ 0.075  $\chi^2$ /NDF: 57440349.0/13

+ 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

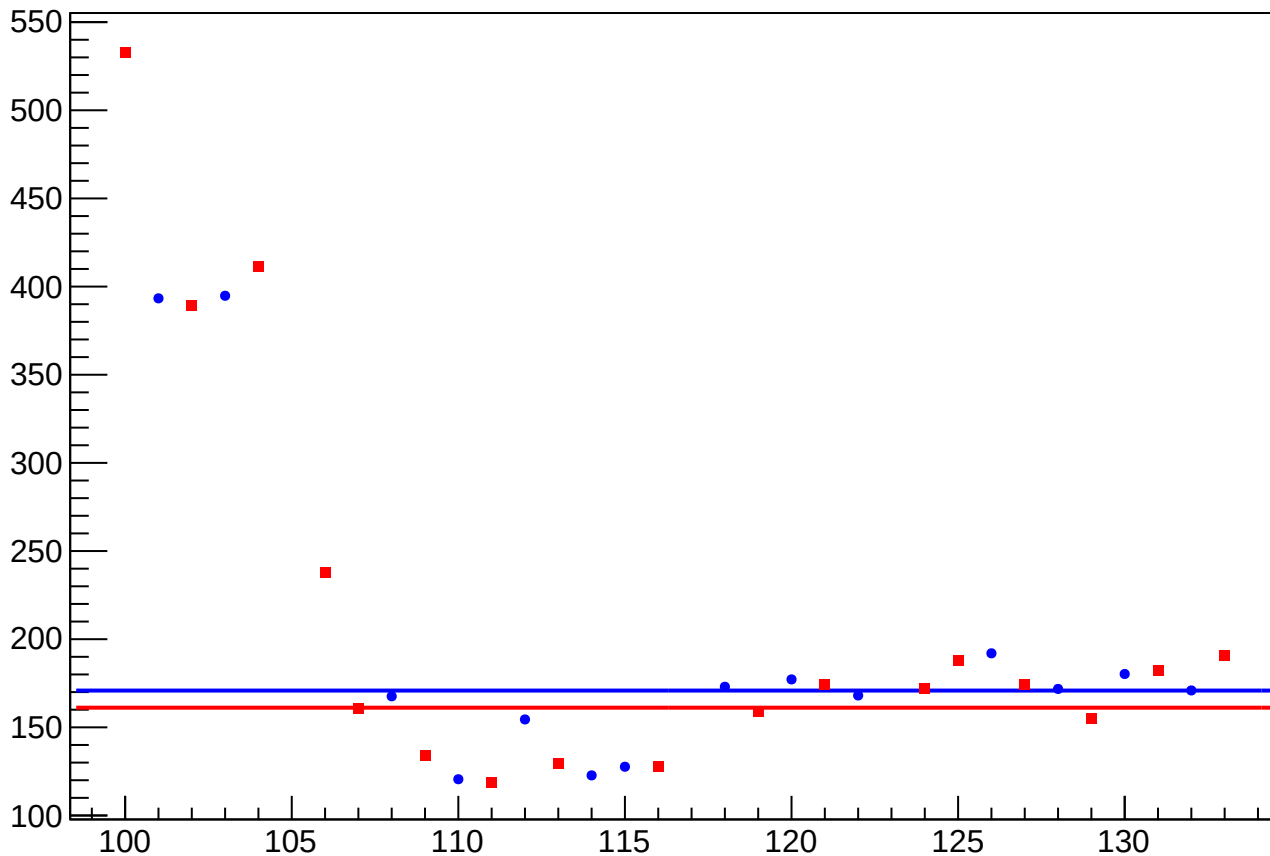
Right Out: 142808.316 $\pm$ 0.066  $\chi^2$ /NDF: 60381624.6/16

All: 142809.961 $\pm$ 0.050  $\chi^2$ /NDF: 117823376

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l10WS\_rms vs Slug



Right In: 170.862 $\pm$ 0.053  $\chi^2$ /NDF: 1018061.1/13

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

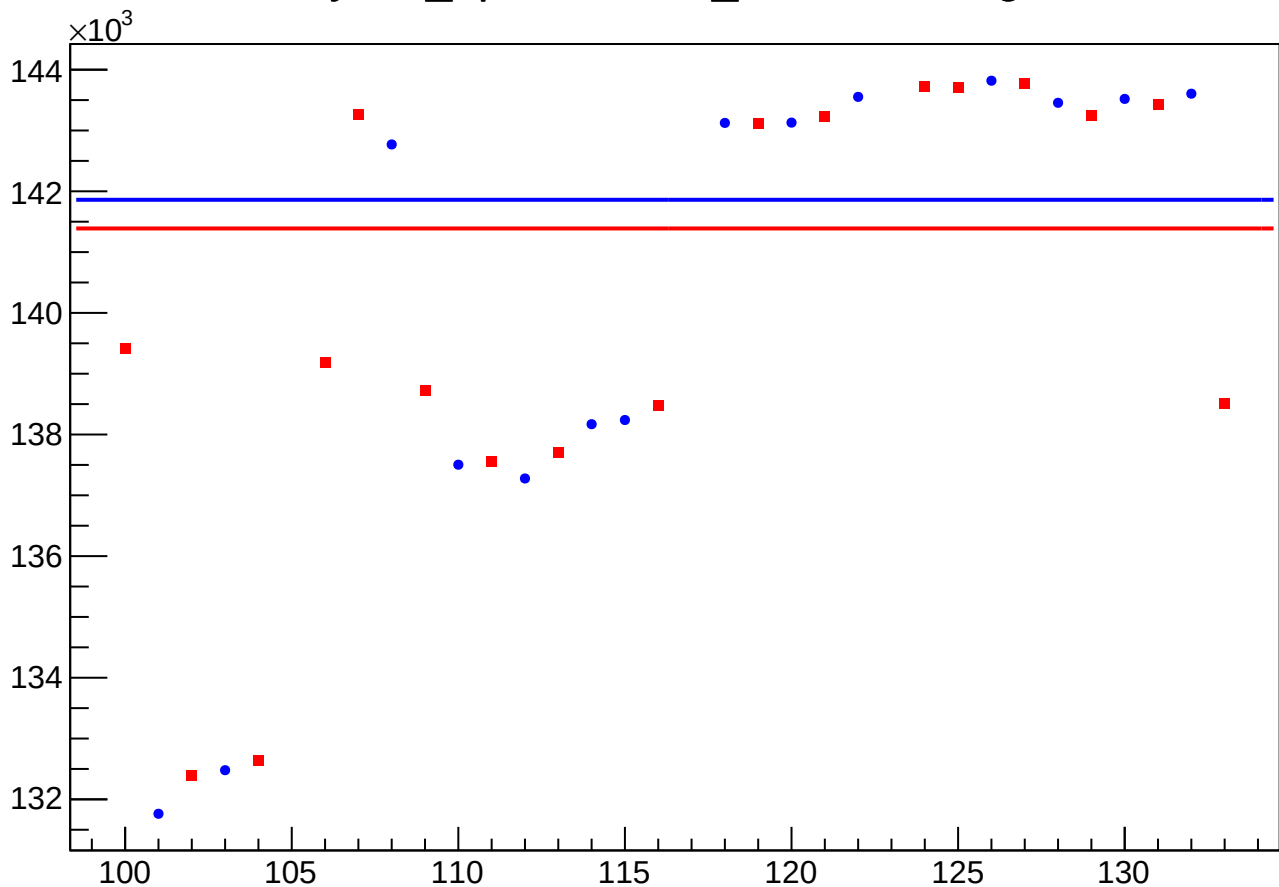
Right Out: 161.154 $\pm$ 0.047  $\chi^2$ /NDF: 1246635.8/16

All: 165.409 $\pm$ 0.035  $\chi^2$ /NDF: 2283474.3/30

- 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\_mean vs Slug



Right In: 141860.353 $\pm$ 0.109  $\chi^2$ /NDF: 884525859.1/13

+ 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

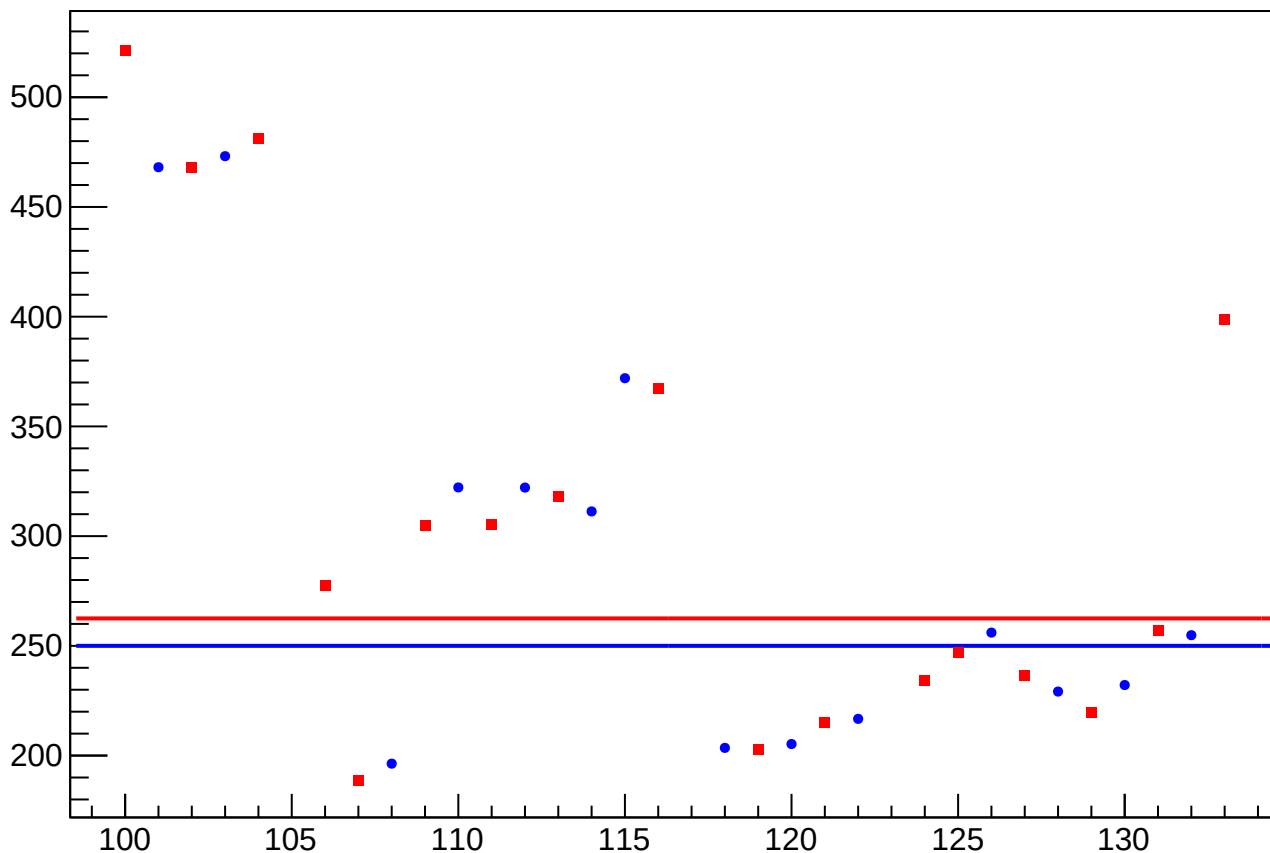
Right Out: 141388.721 $\pm$ 0.107  $\chi^2$ /NDF: 866898952.3/16

All: 141619.650 $\pm$ 0.076  $\chi^2$ /NDF: 176095897.1/16

- 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

# yield\_bpm0r03WS\_rms vs Slug



Right In: 250.009 $\pm$ 0.077  $\chi^2$ /NDF: 850717.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 262.505 $\pm$ 0.076  $\chi^2$ /NDF: 956961.7/16

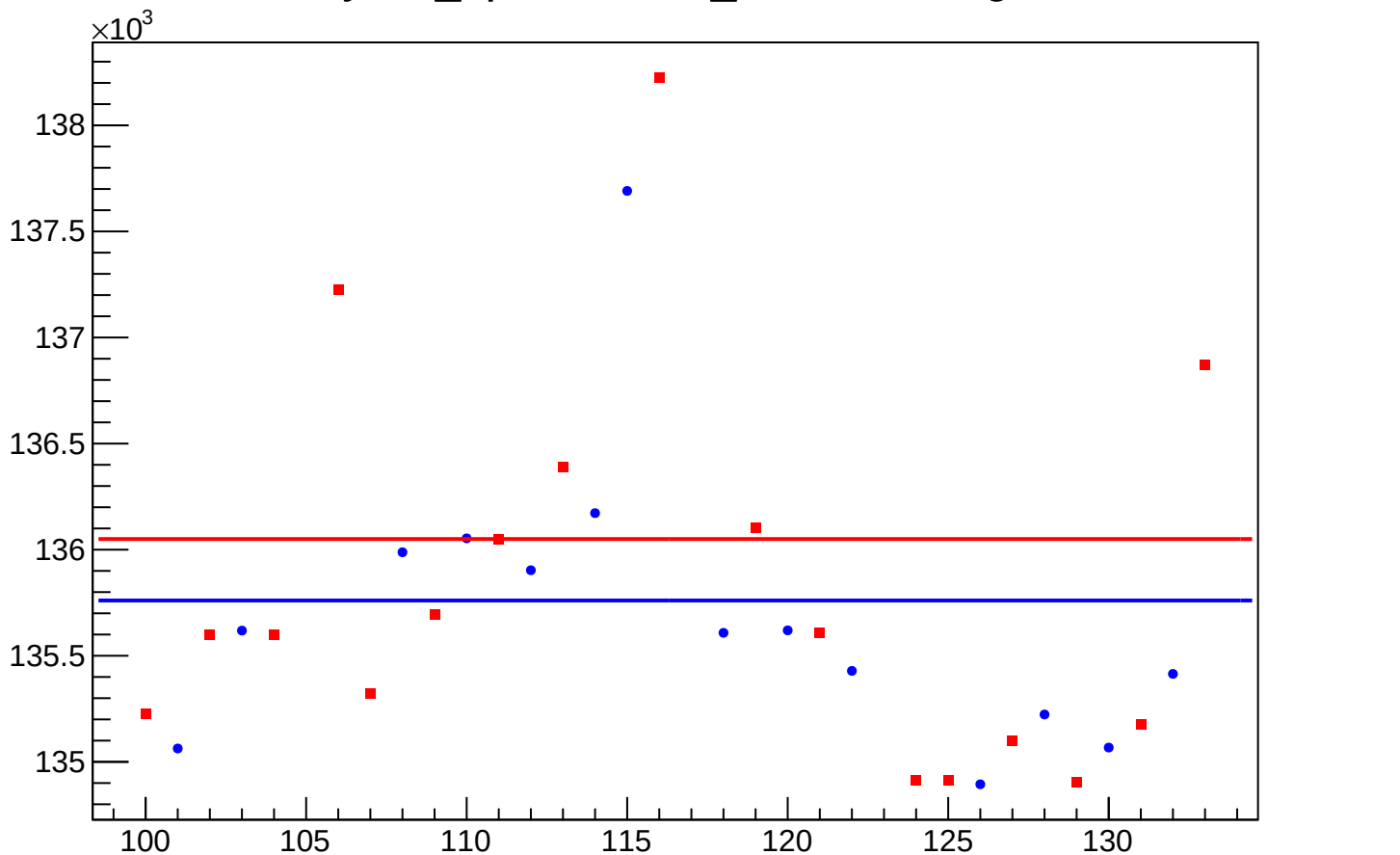
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 256.387 $\pm$ 0.054  $\chi^2$ /NDF: 1821065.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r05WS\_mean vs Slug



Right In: 135760.499 $\pm$ 0.127  $\chi^2$ /NDF: 19808295.6/13

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

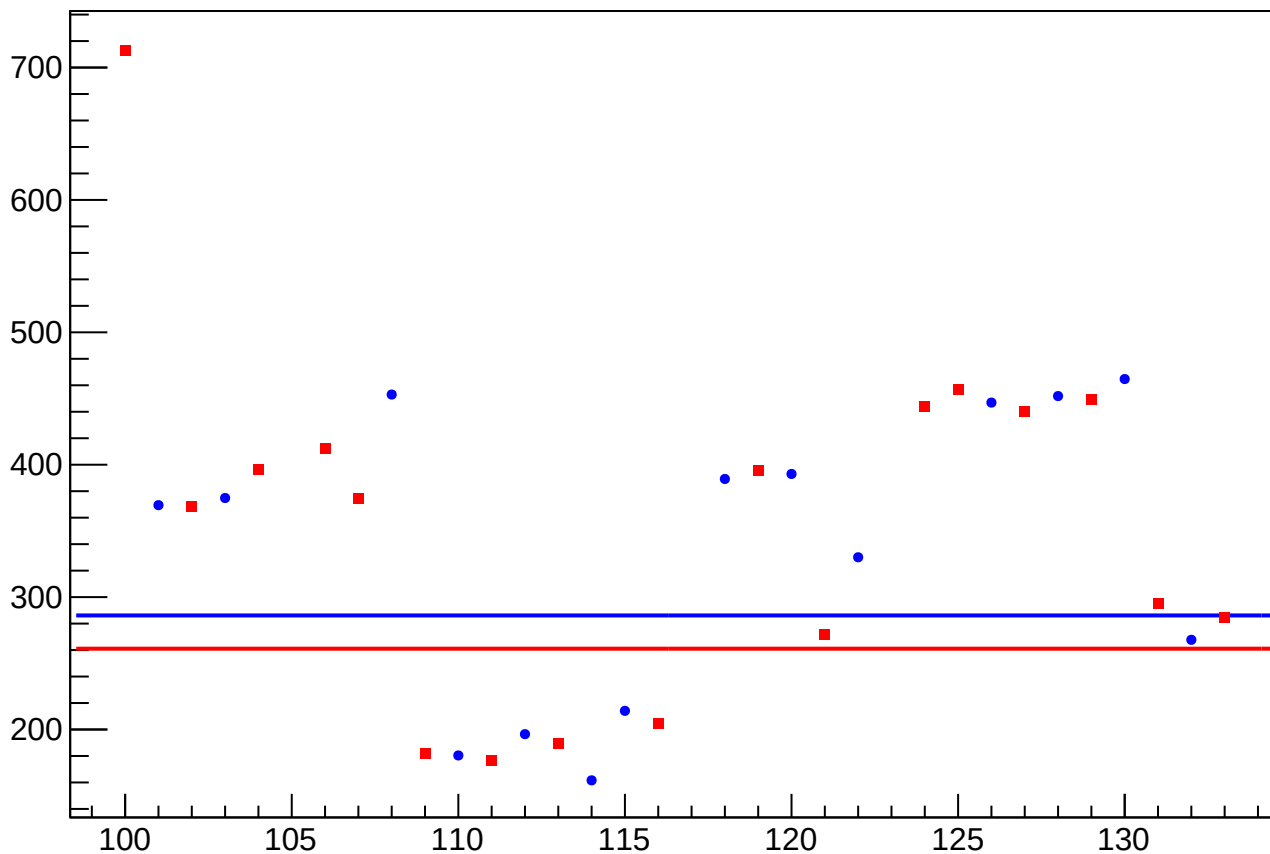
Right Out: 136050.169 $\pm$ 0.109  $\chi^2$ /NDF: 51883184.8/16

All: 135927.143 $\pm$ 0.083  $\chi^2$ /NDF: 74675361.

- 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: 286.150+/-0.090  $\chi^2/\text{NDF}$ : 1352418.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 261.046+/-0.077  $\chi^2/\text{NDF}$ : 1570514.1/16

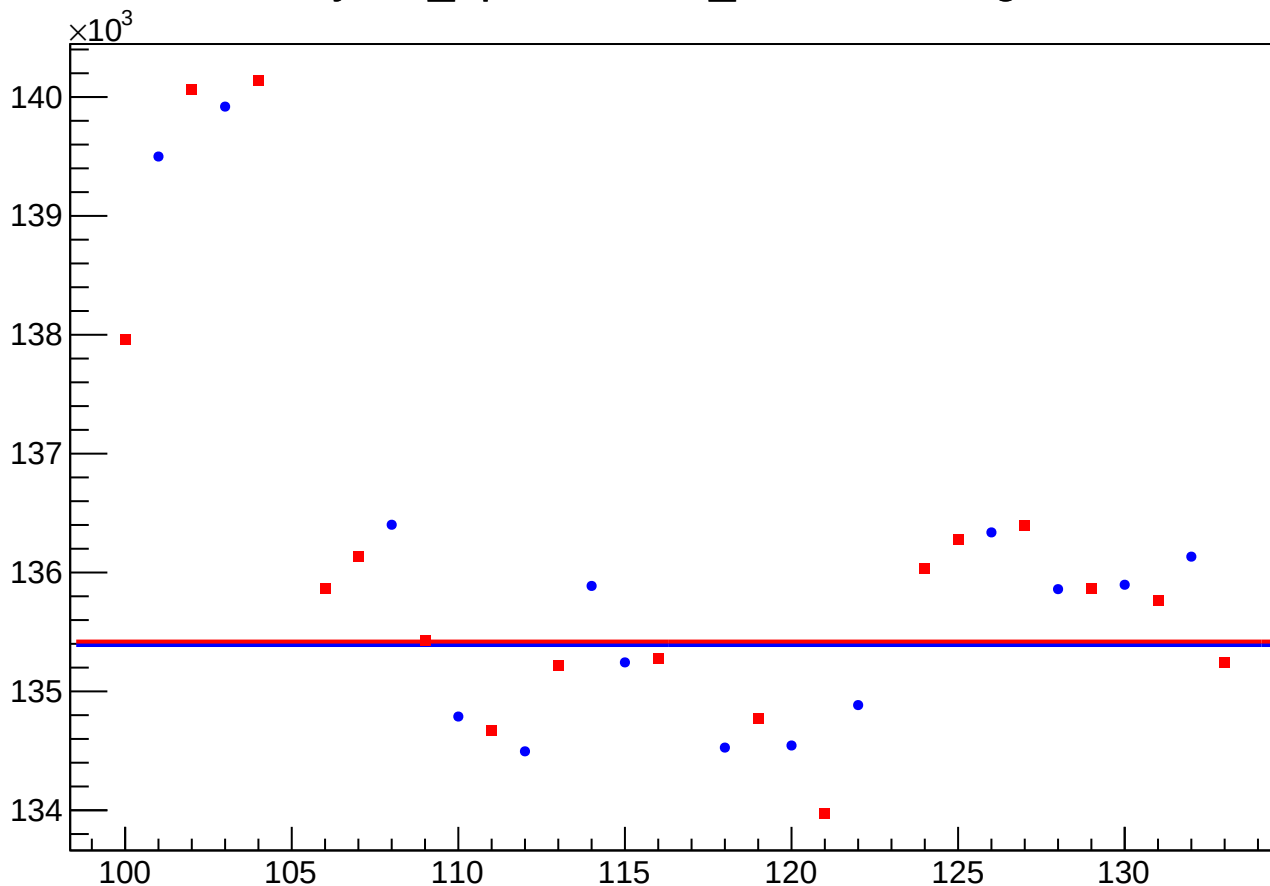
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 271.708+/-0.059  $\chi^2/\text{NDF}$ : 2967752.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02WS\_mean vs Slug



Right In: 135390.135 $\pm$ 0.059  $\chi^2$ /NDF: 320661229.6/13

+ 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

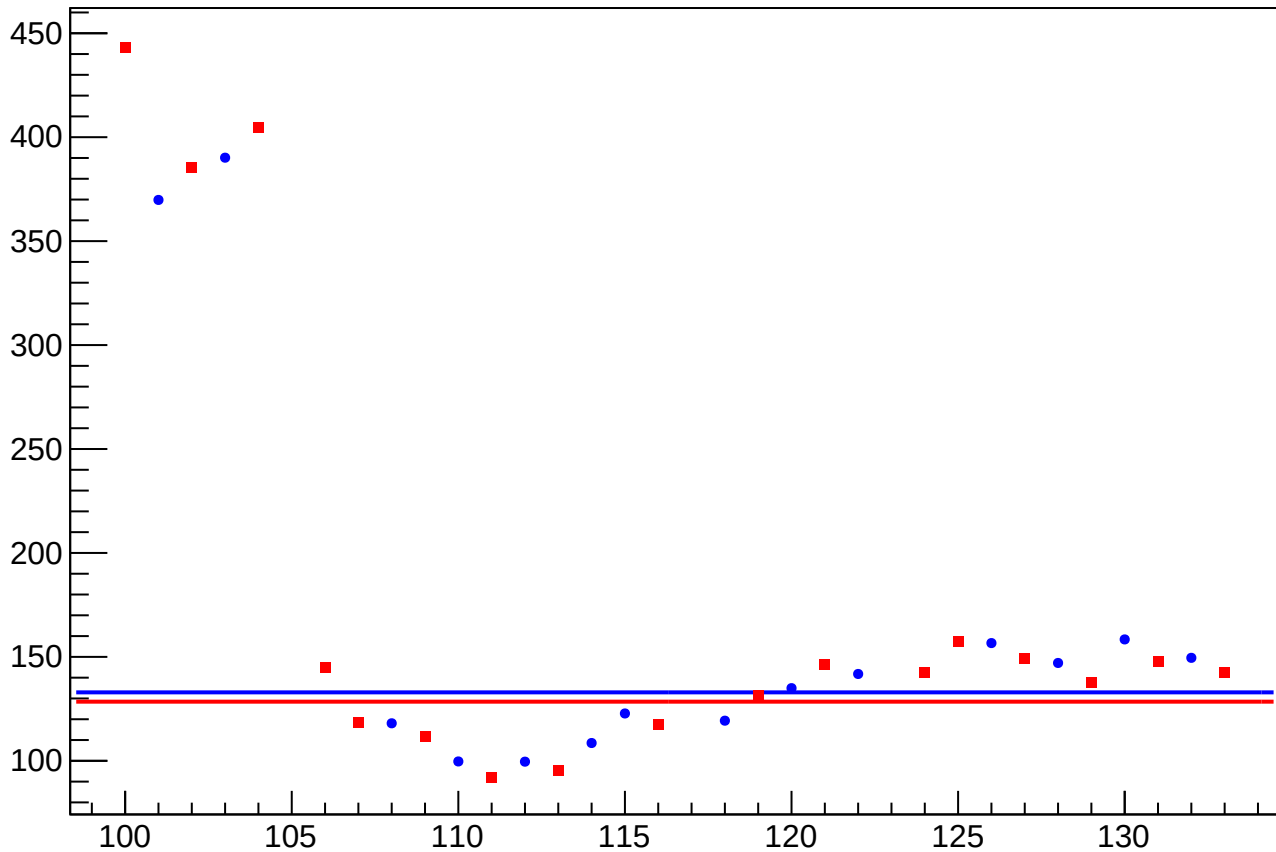
Right Out: 135419.154 $\pm$ 0.054  $\chi^2$ /NDF: 302554216.3/16

All: 135406.092 $\pm$ 0.040  $\chi^2$ /NDF: 62334688

- 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: 132.932 $\pm$ 0.042  $\chi^2$ /NDF: 1341065.0/13

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: 128.456 $\pm$ 0.038  $\chi^2$ /NDF: 1489359.6/16

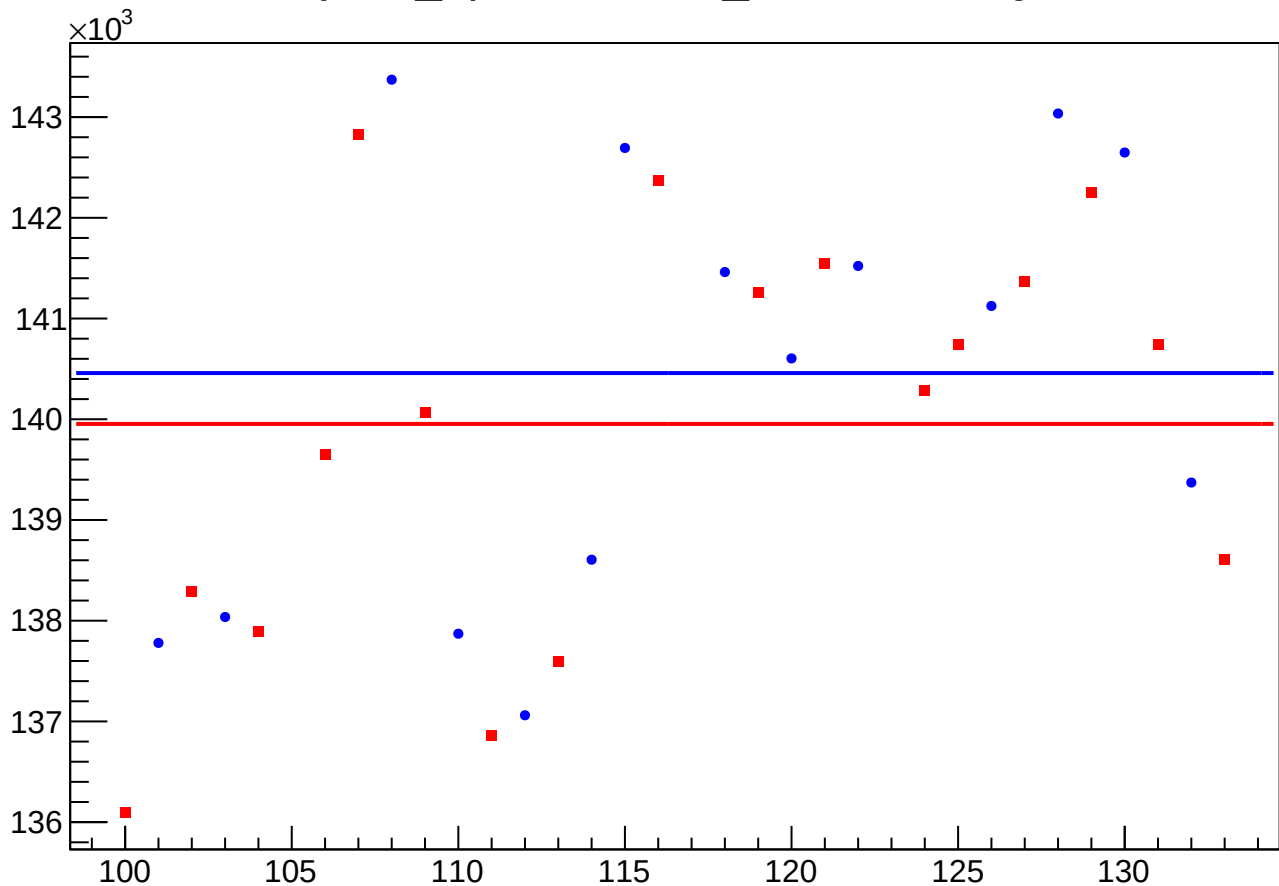
All: 130.471 $\pm$ 0.028  $\chi^2$ /NDF: 2836678.5/30

- 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\_mean vs Slug



Right In: 140458.763 $\pm$ 0.068  $\chi^2$ /NDF: 983846875.0/13

+ 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

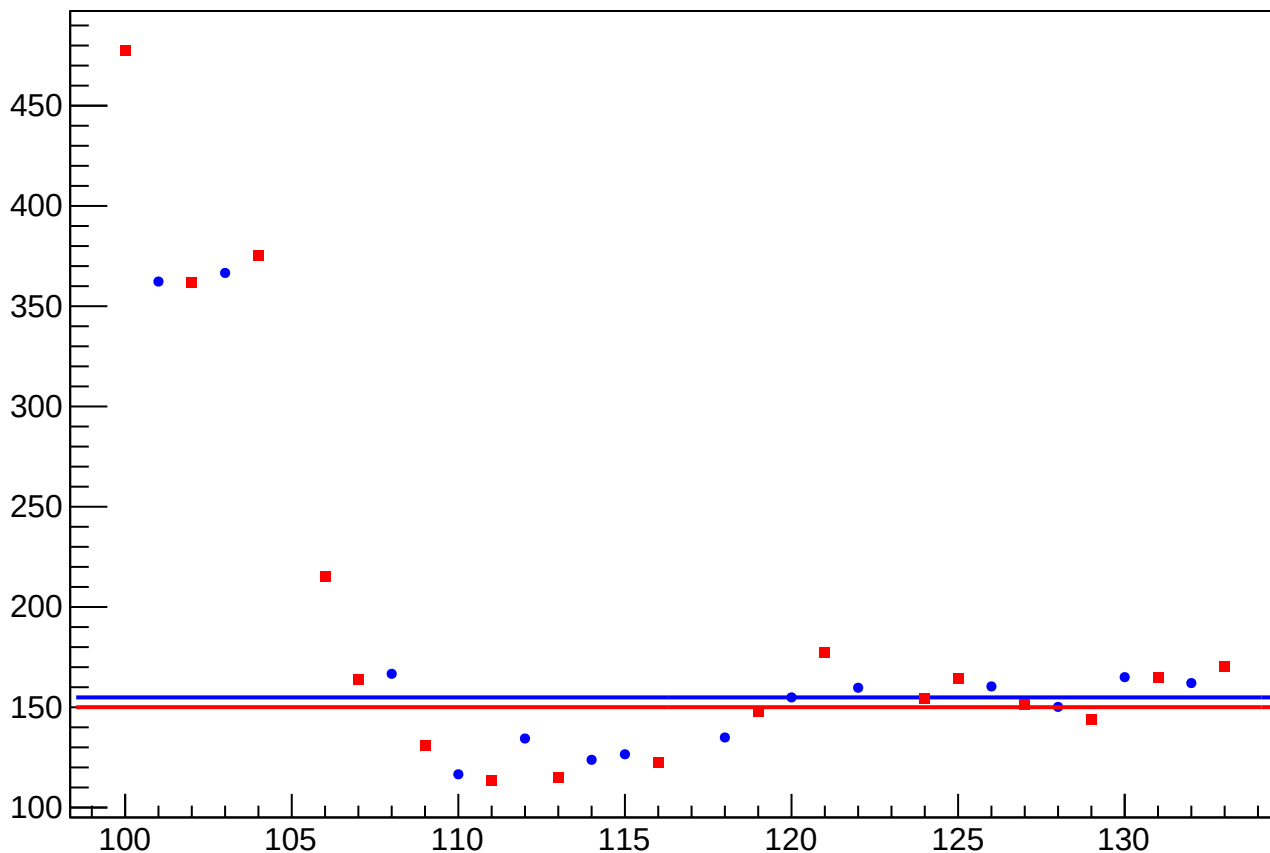
All: 140182.158 $\pm$ 0.046  $\chi^2$ /NDF: 19828480.0/16

Right Out: 139953.688 $\pm$ 0.062  $\chi^2$ /NDF: 968854925.6/16

- 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

# yield\_bpm0i02aWS\_rms vs Slug



Right In: 154.924+/-0.048  $\chi^2/\text{NDF}$ : 990130.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 150.035+/-0.044  $\chi^2/\text{NDF}$ : 1195061.9/16

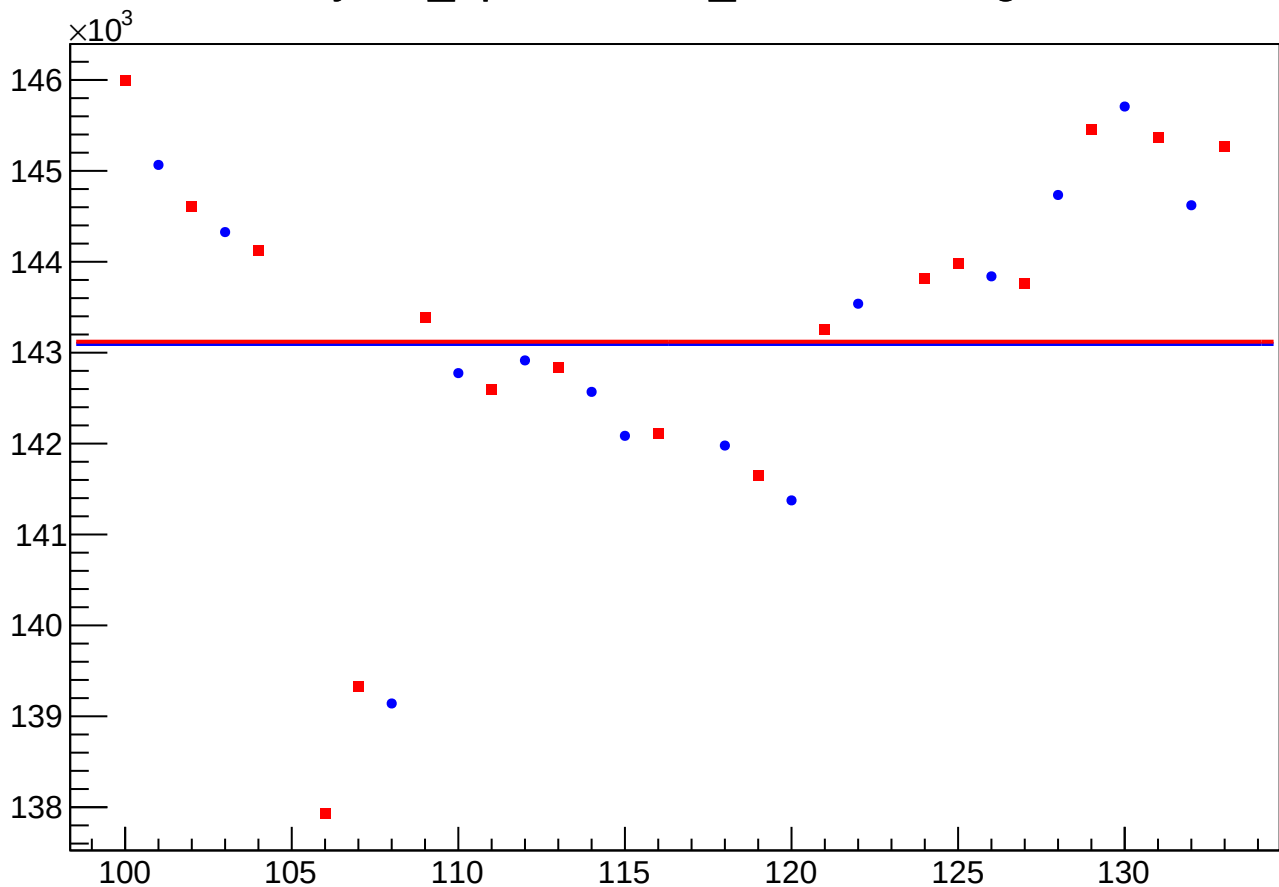
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 152.247+/-0.032  $\chi^2/\text{NDF}$ : 2190842.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05WS\_mean vs Slug



Right In: 143095.753 $\pm$ 0.072  $\chi^2$ /NDF: 600037864.6/13

+ 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

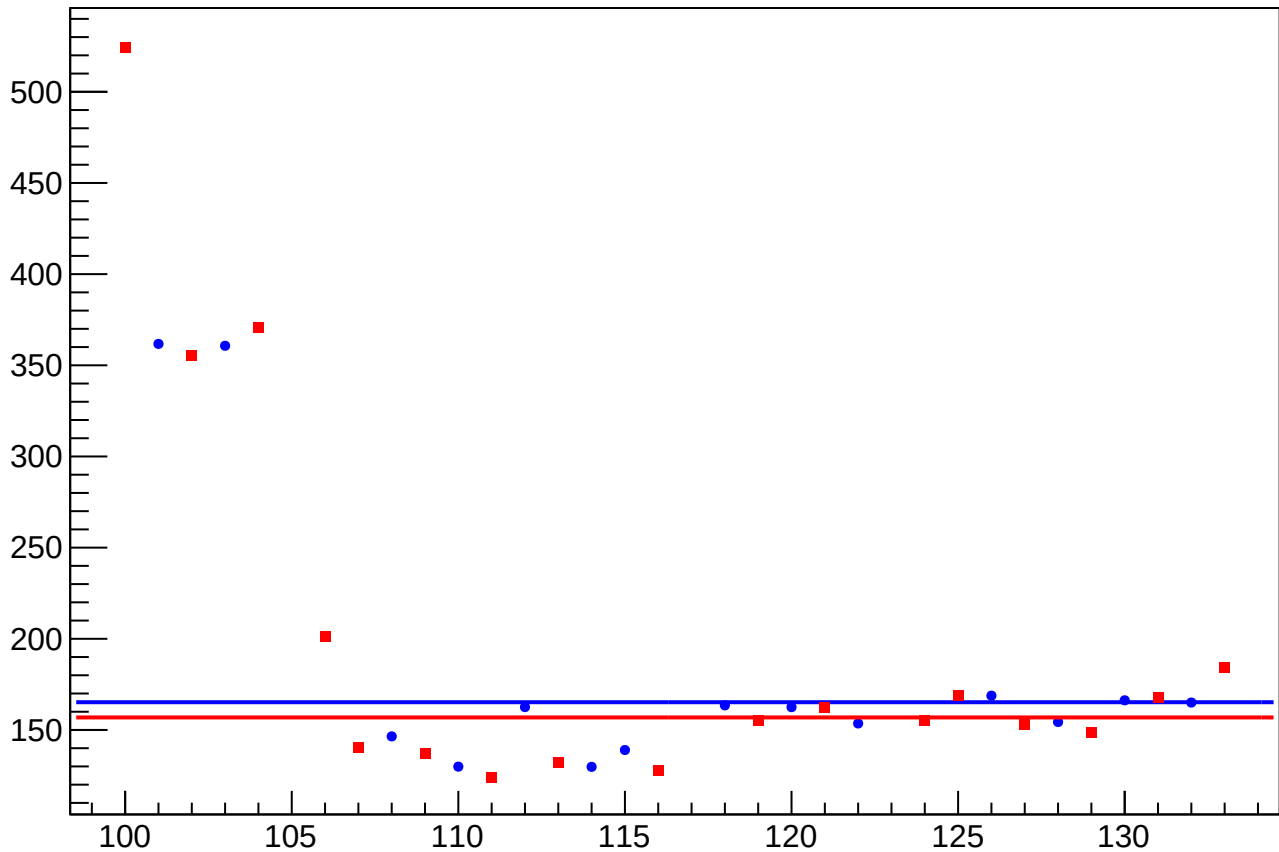
Right Out: 143120.877 $\pm$ 0.064  $\chi^2$ /NDF: 686275999.0/16

All: 143109.769 $\pm$ 0.048  $\chi^2$ /NDF: 128638137

- 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: 165.219+/-0.051  $\chi^2/\text{NDF}$ : 840180.7/13

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

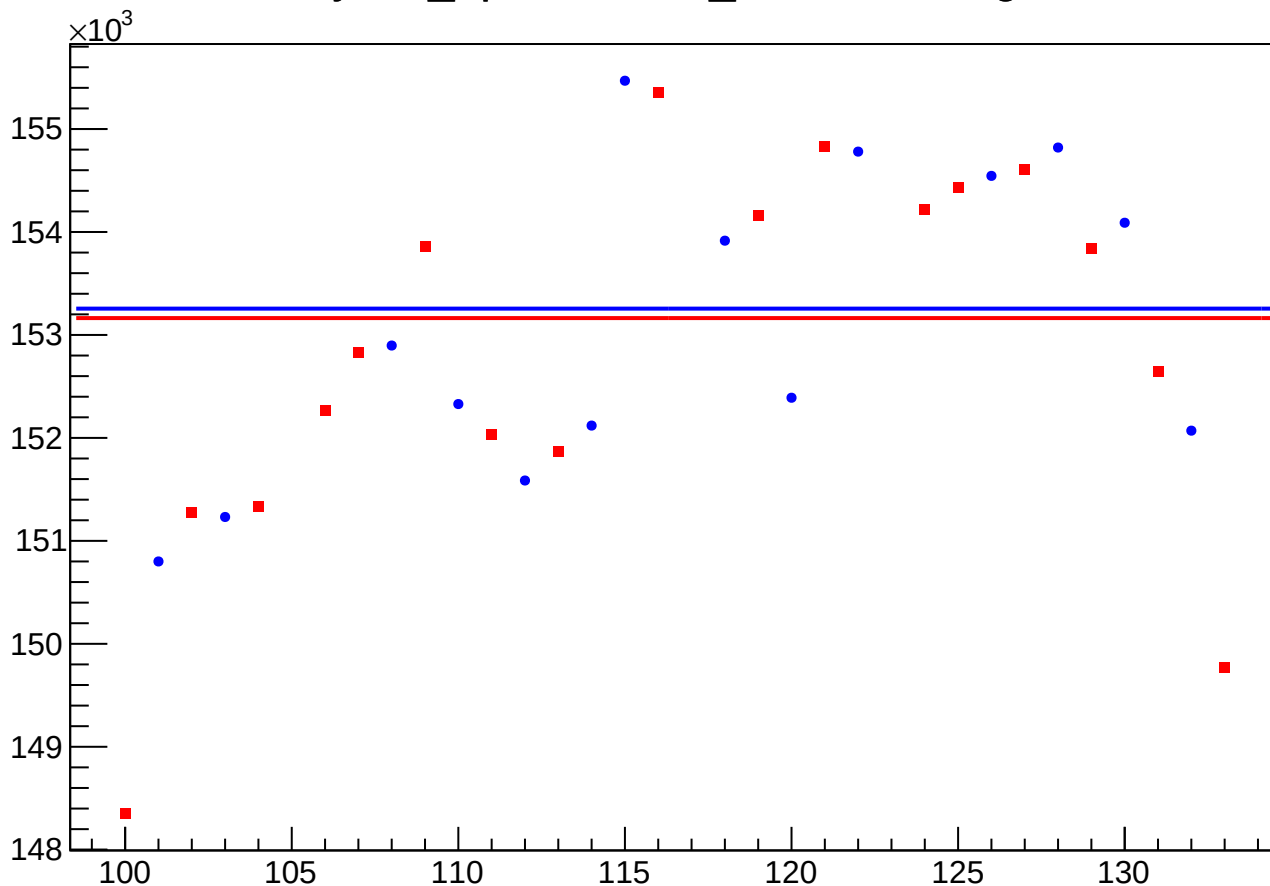
Right Out: 156.872+/-0.045  $\chi^2/\text{NDF}$ : 1016953.1/16

All: 160.562+/-0.034  $\chi^2/\text{NDF}$ : 1872040.3/30

- 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\_bpm0i07WS\_mean vs Slug



Right In: 153255.709 $\pm$ 0.081  $\chi^2$ /NDF: 258924008.2/13

+ 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

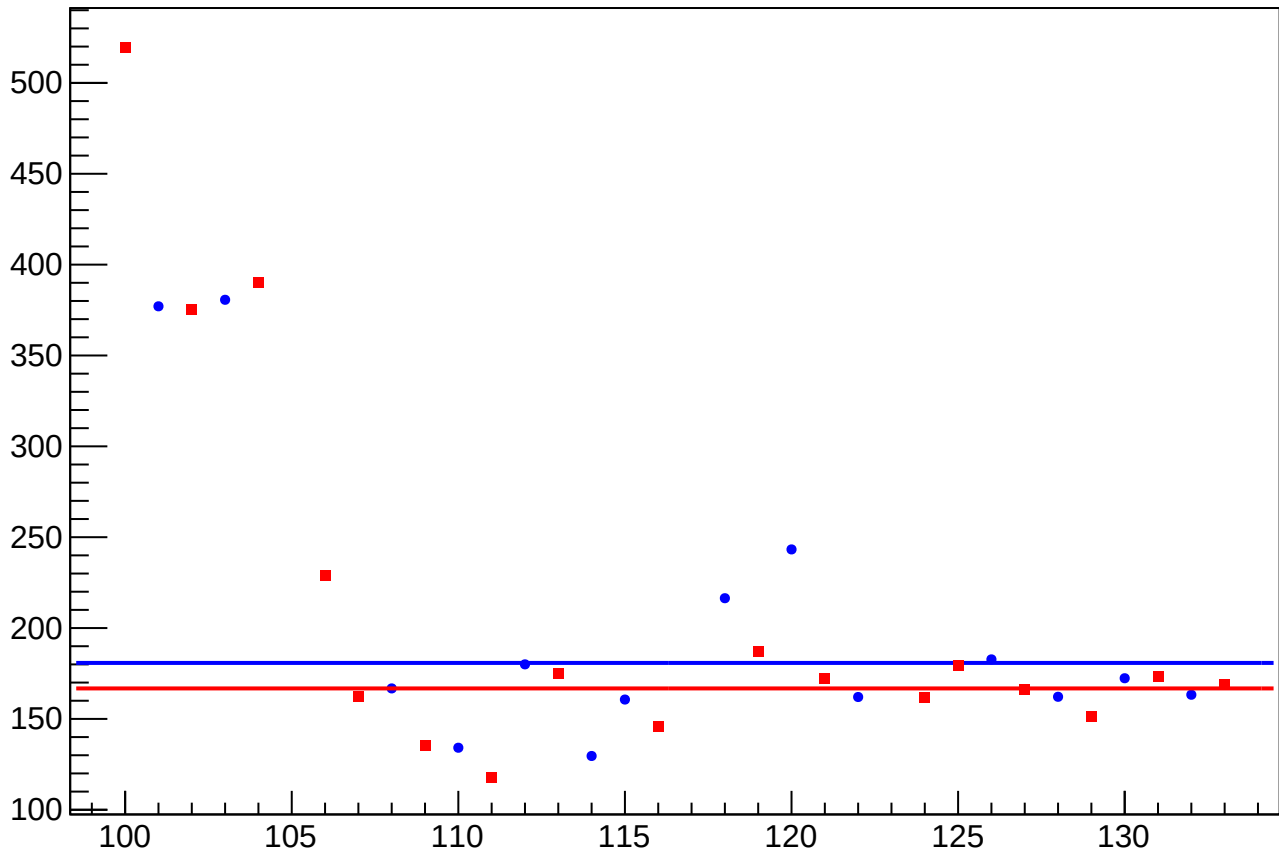
Right Out: 153163.733 $\pm$ 0.070  $\chi^2$ /NDF: 459727484.8/16

All: 153202.801 $\pm$ 0.053  $\chi^2$ /NDF: 719395249

- 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: 180.812 $\pm$ 0.057  $\chi^2$ /NDF: 907725.2/13

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

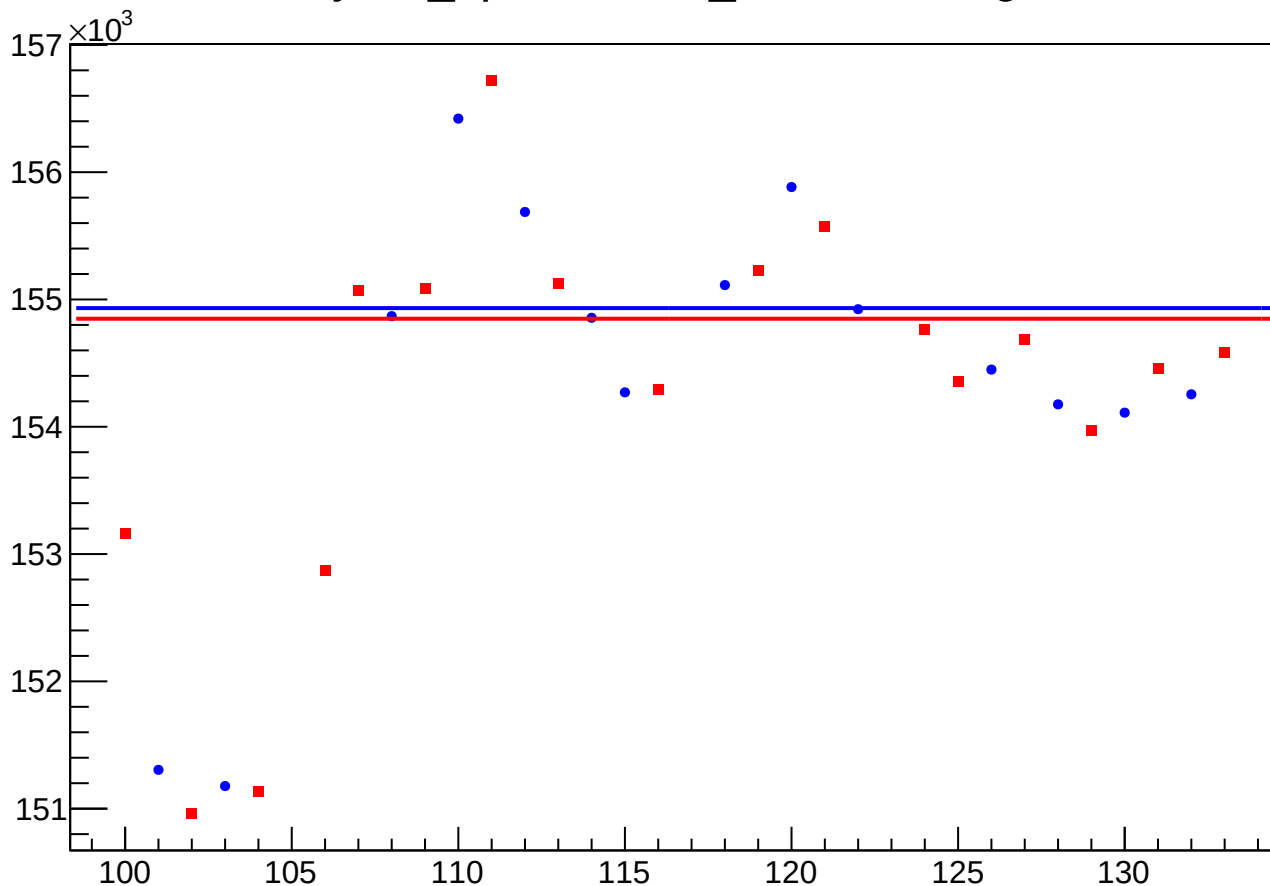
Right Out: 166.773 $\pm$ 0.049  $\chi^2$ /NDF: 1075884.7/16

All: 172.736 $\pm$ 0.037  $\chi^2$ /NDF: 2018263.0/30

- 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\_mean vs Slug



Right In: 154932.163 $\pm$ 0.071  $\chi^2$ /NDF: 220167036.1/13

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

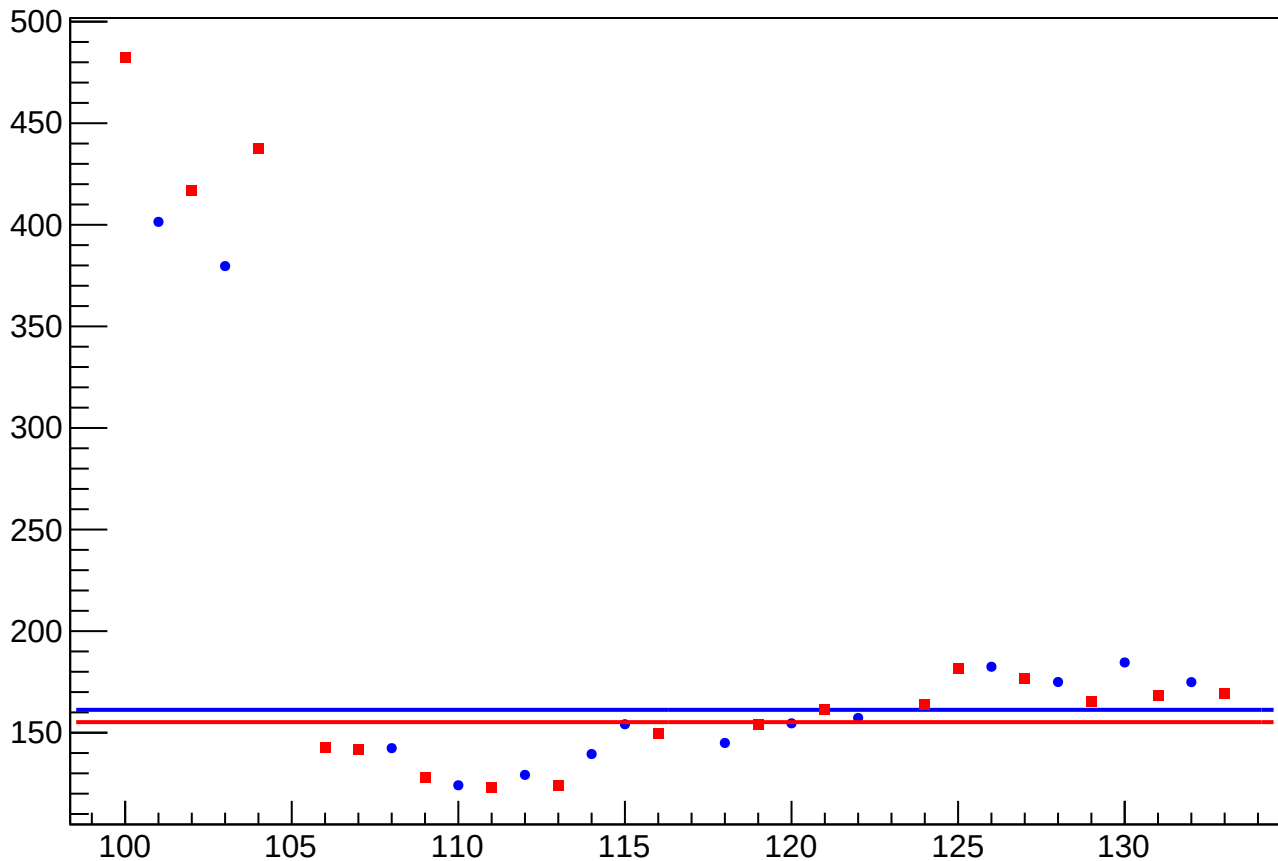
Right Out: 154848.803 $\pm$ 0.063  $\chi^2$ /NDF: 293238848.9/16

All: 154885.863 $\pm$ 0.047  $\chi^2$ /NDF: 514176258

- 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: 161.269+/-0.050  $\chi^2/\text{NDF}$ : 1035069.3/13

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: 155.205+/-0.045  $\chi^2/\text{NDF}$ : 1223389.5/16

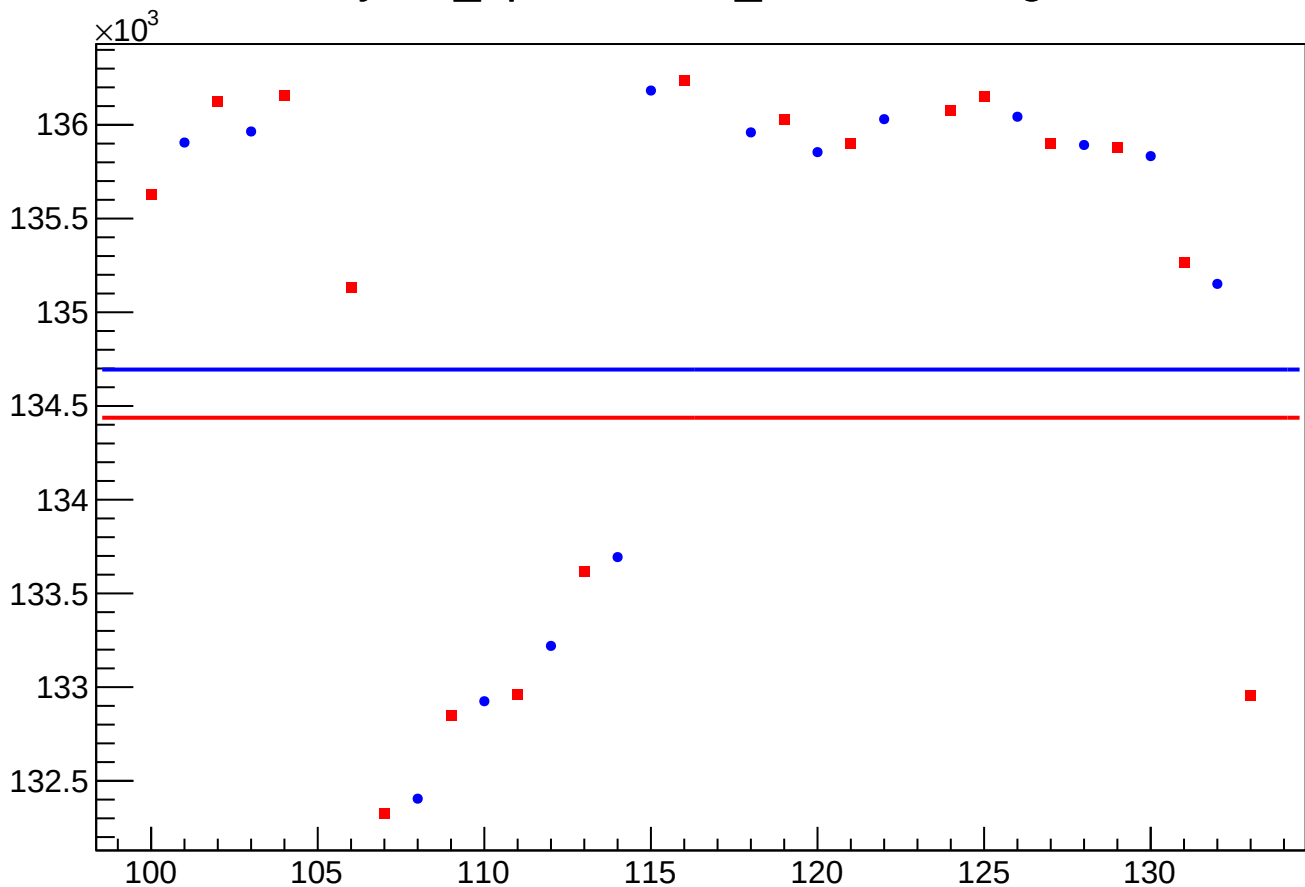
All: 157.901+/-0.033  $\chi^2/\text{NDF}$ : 2266610.6/30

- 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\_bpm1i04WS\_mean vs Slug



Right In: 134694.453 $\pm$ 0.055  $\chi^2$ /NDF: 699094833.4/13

+ 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

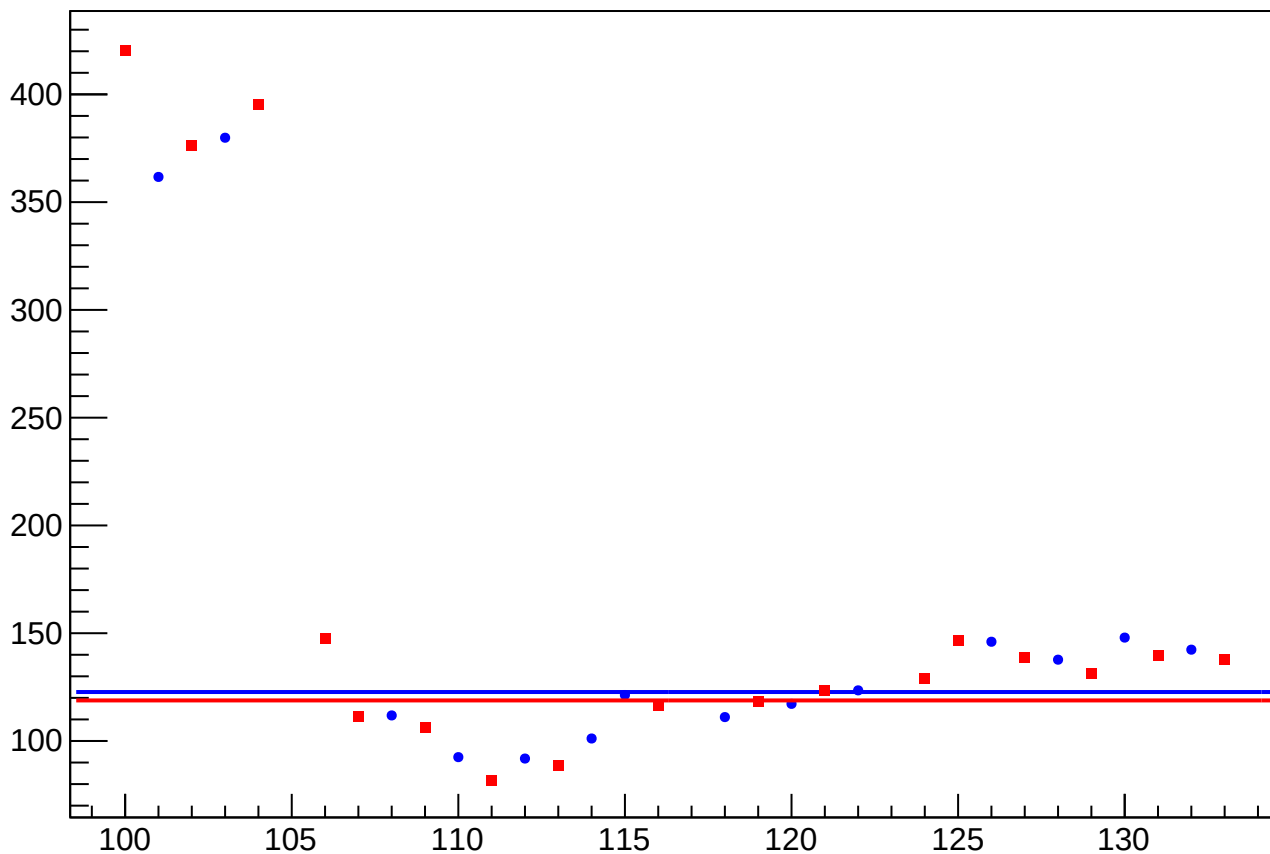
All: 134553.368 $\pm$ 0.037  $\chi^2$ /NDF: 156832850

Right Out: 134437.361 $\pm$ 0.050  $\chi^2$ /NDF: 857163509.6/16

- 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

# yield\_bpm1i04WS\_rms vs Slug



Right In: 122.716+/-0.039  $\chi^2/\text{NDF}$ : 1407077.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 118.817+/-0.035  $\chi^2/\text{NDF}$ : 1588642.5/16

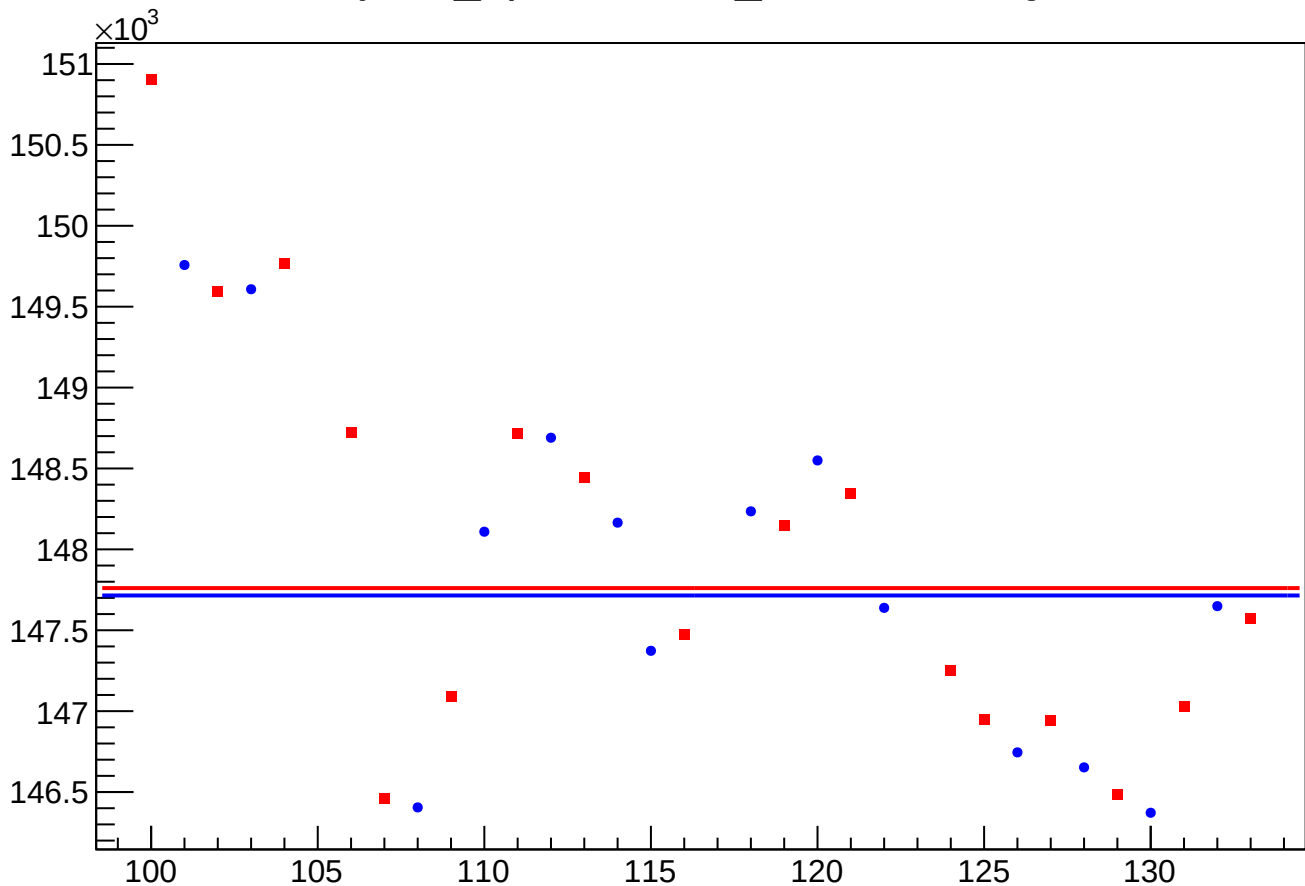
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 120.576+/-0.026  $\chi^2/\text{NDF}$ : 3001271.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06WS\_mean vs Slug



Right In: 147714.935 $\pm$ 0.068  $\chi^2$ /NDF: 181692202.5/13

+ 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

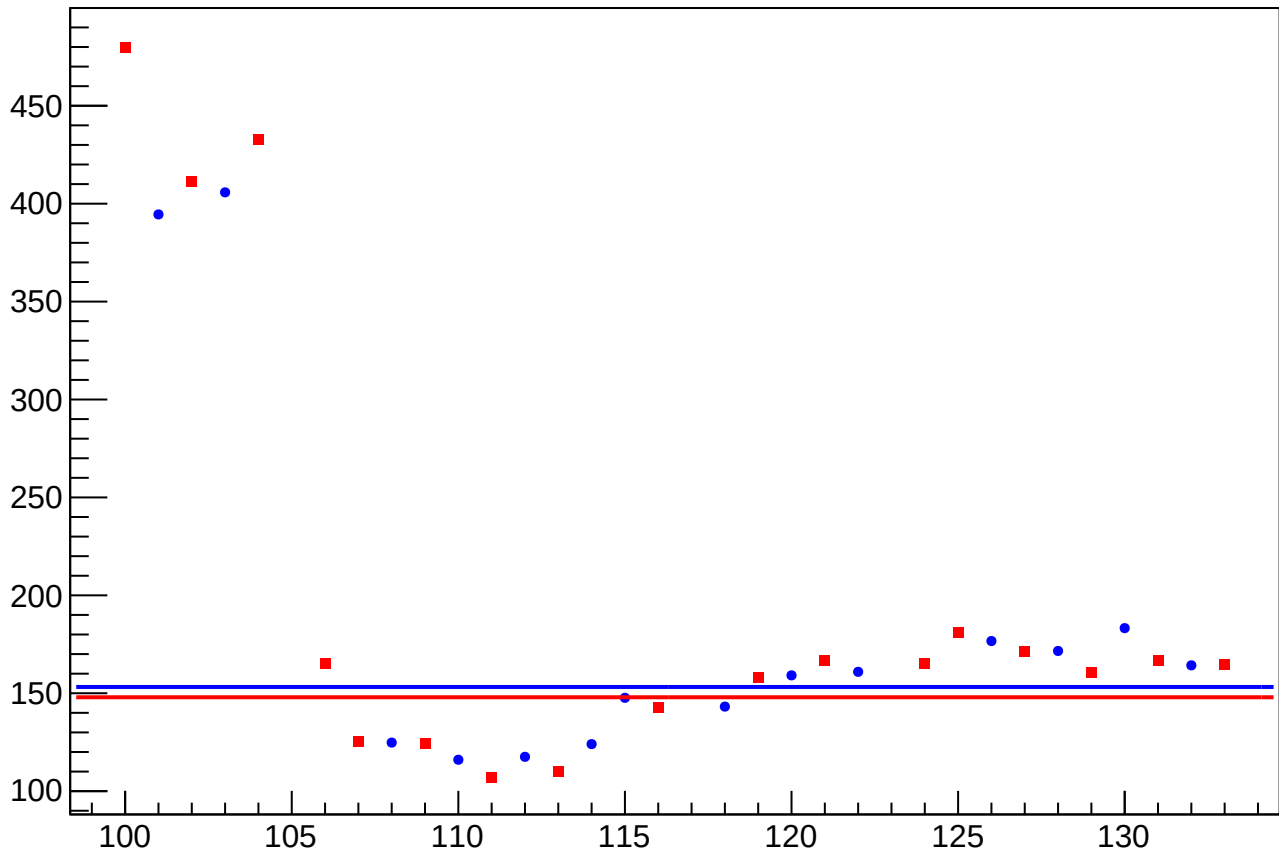
All: 147740.096 $\pm$ 0.045  $\chi^2$ /NDF: 371809415

Right Out: 147760.607 $\pm$ 0.061  $\chi^2$ /NDF: 189866715.7/16

- 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

# yield\_bpm1i06WS\_rms vs Slug



Right In: 153.212 $\pm$ 0.048  $\chi^2$ /NDF: 1224834.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 147.950 $\pm$ 0.043  $\chi^2$ /NDF: 1421863.3/16

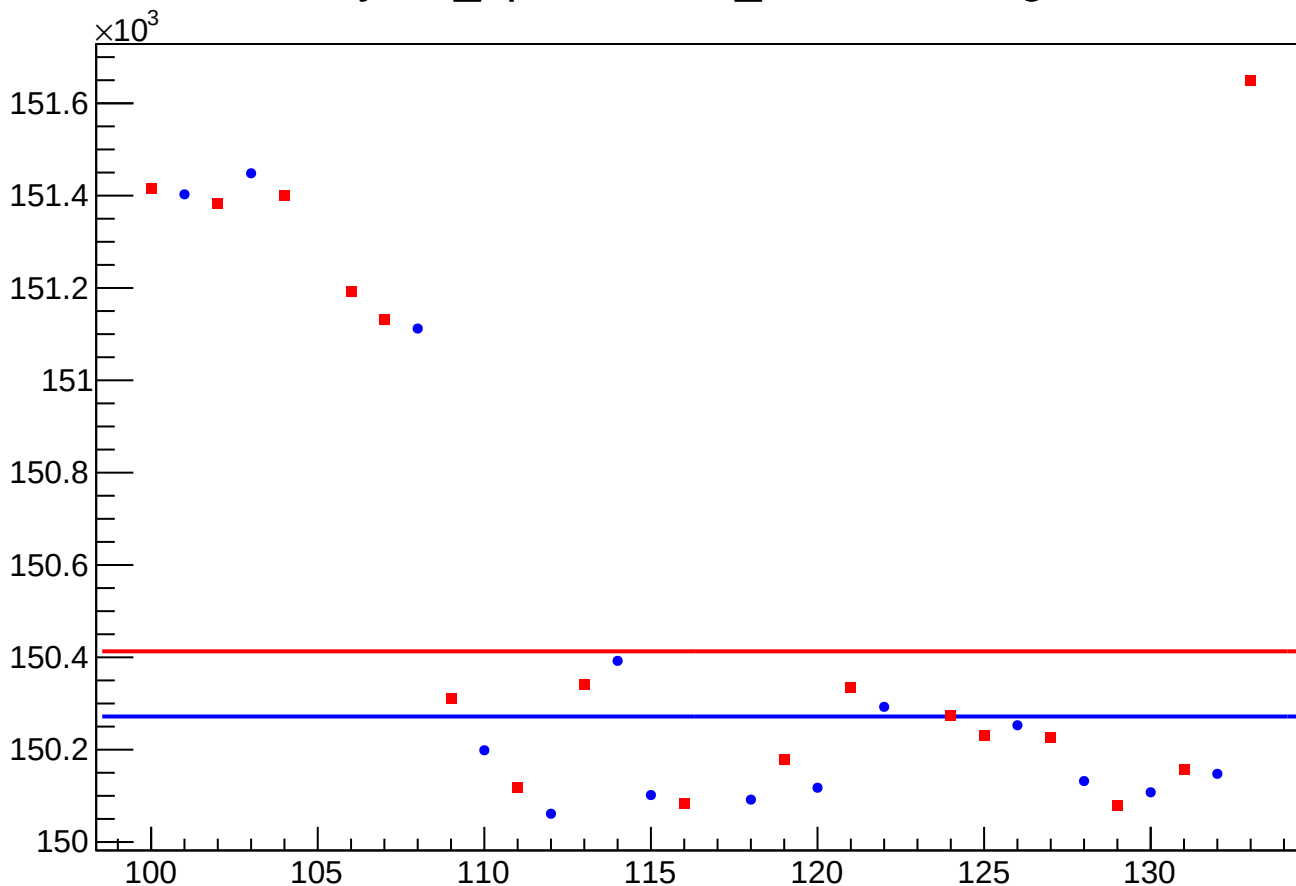
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 150.313 $\pm$ 0.032  $\chi^2$ /NDF: 2653348.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i01WS\_mean vs Slug



Right In: 150271.874 $\pm$ 0.059  $\chi^2$ /NDF: 34689083.9/13

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

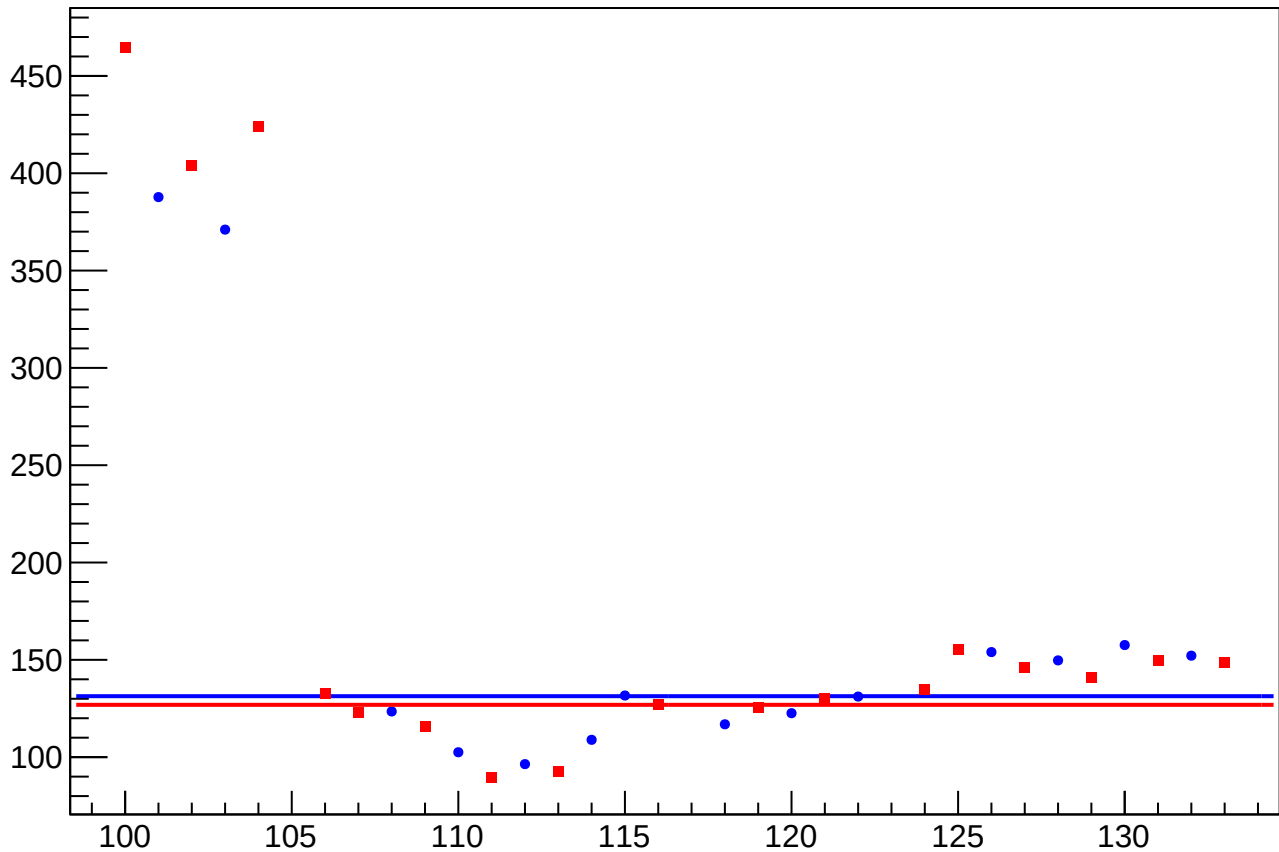
Right Out: 150413.023 $\pm$ 0.053  $\chi^2$ /NDF: 70824477.2/16

All: 150350.004 $\pm$ 0.039  $\chi^2$ /NDF: 10872045

- 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: 131.326 $\pm$ 0.041  $\chi^2$ /NDF: 1323487.6/13

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

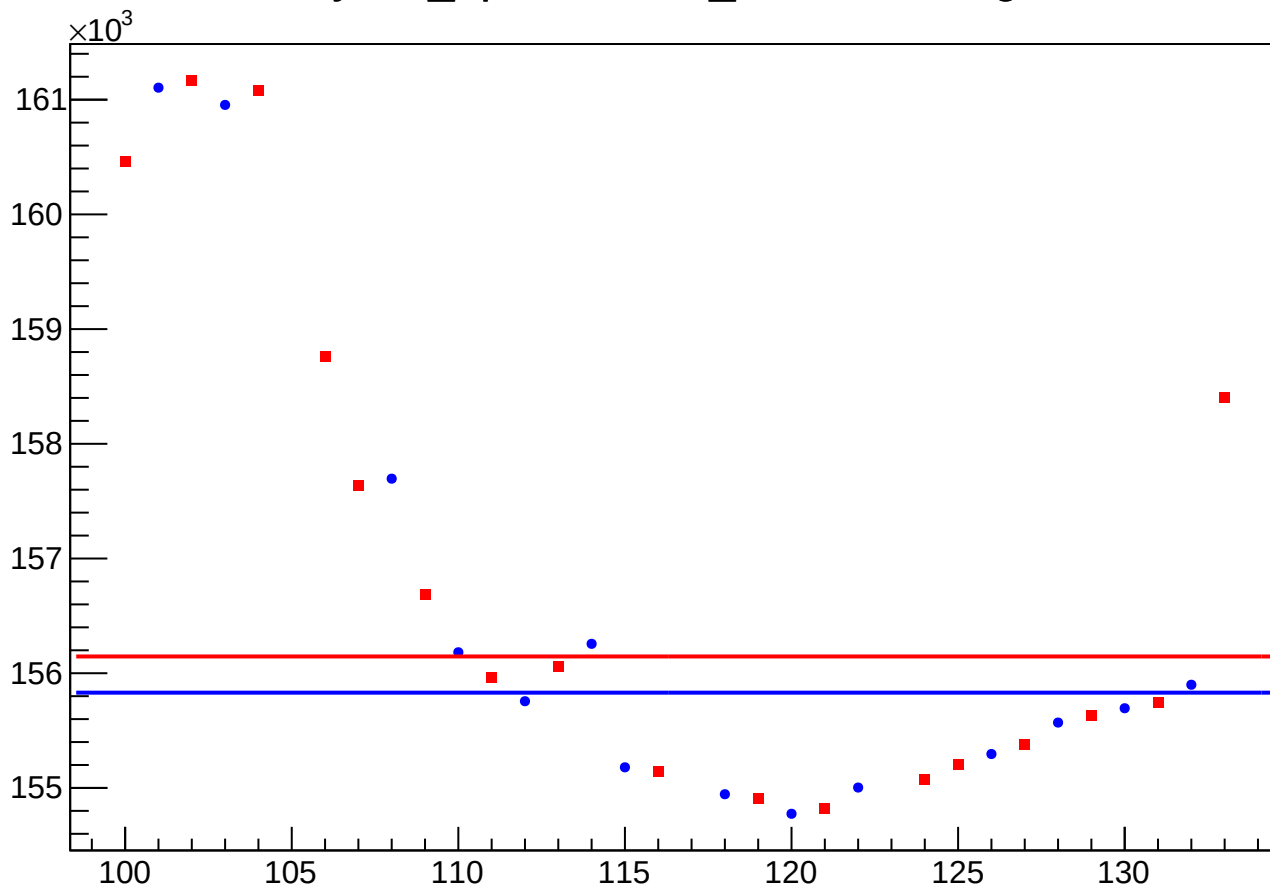
Right Out: 126.882 $\pm$ 0.037  $\chi^2$ /NDF: 1555145.1/16

All: 128.867 $\pm$ 0.028  $\chi^2$ /NDF: 2884990.7/30

- 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: 155830.604 $\pm$ 0.061  $\chi^2$ /NDF: 371179109.4/13

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

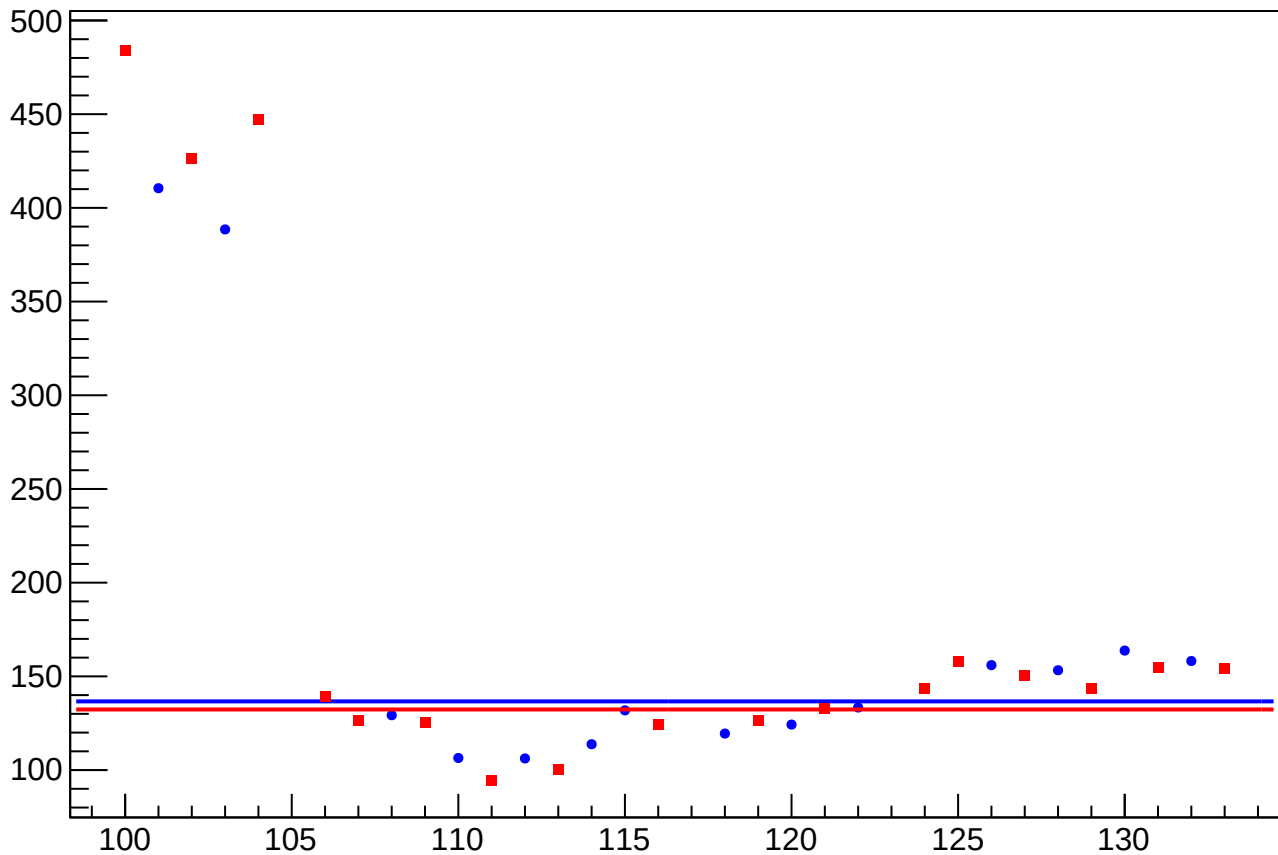
Right Out: 156146.089 $\pm$ 0.055  $\chi^2$ /NDF: 564874098.6/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156004.970 $\pm$ 0.041  $\chi^2$ /NDF: 950857540

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i02WS\_rms vs Slug



Right In: 136.649 $\pm$ 0.043  $\chi^2$ /NDF: 1294986.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 132.338 $\pm$ 0.039  $\chi^2$ /NDF: 1515524.2/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

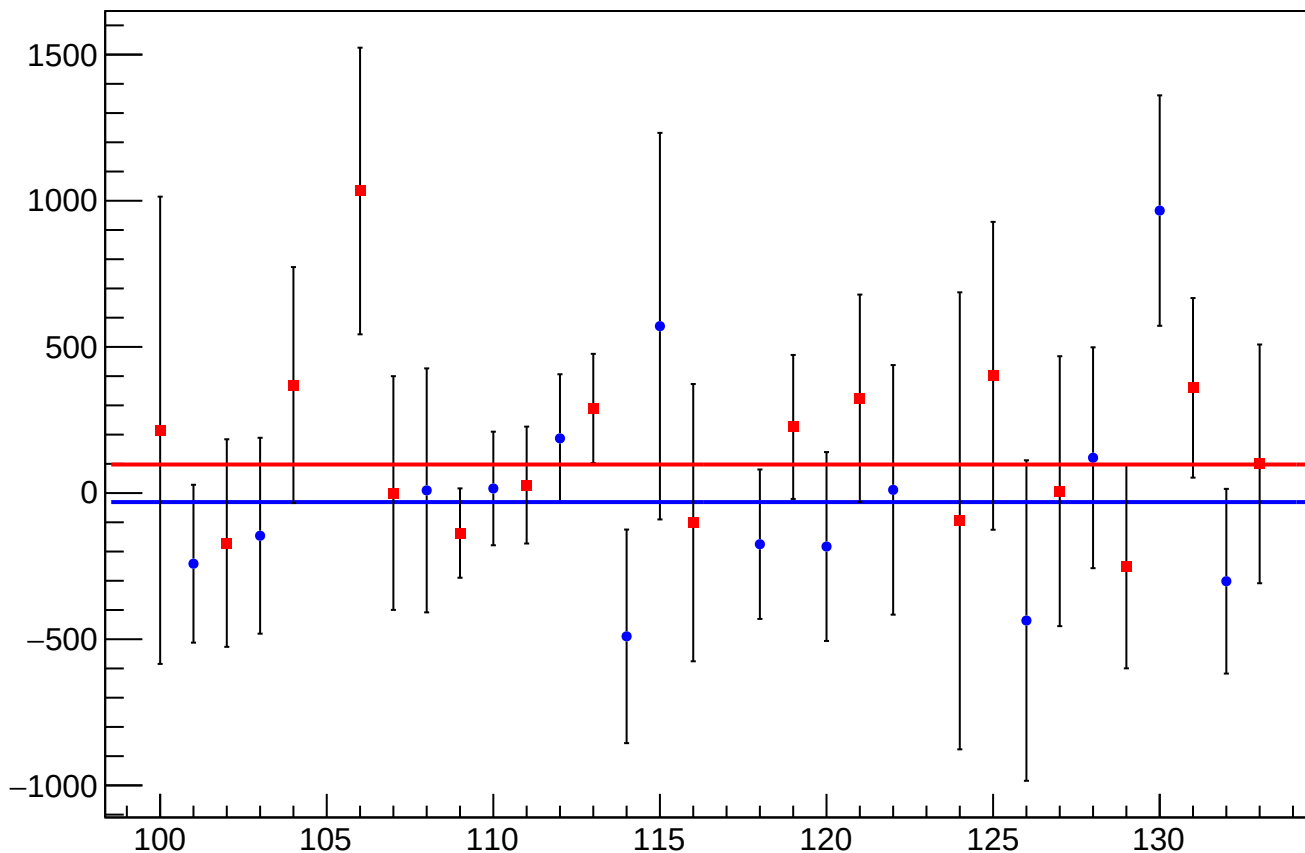
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 134.266 $\pm$ 0.029  $\chi^2$ /NDF: 2816040.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bcm\_target\_mean vs Slug



Right In:  $-30.813 \pm 83.743$   $\chi^2/\text{NDF}$ : 12.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $97.723 \pm 73.300$   $\chi^2/\text{NDF}$ : 11.3/16

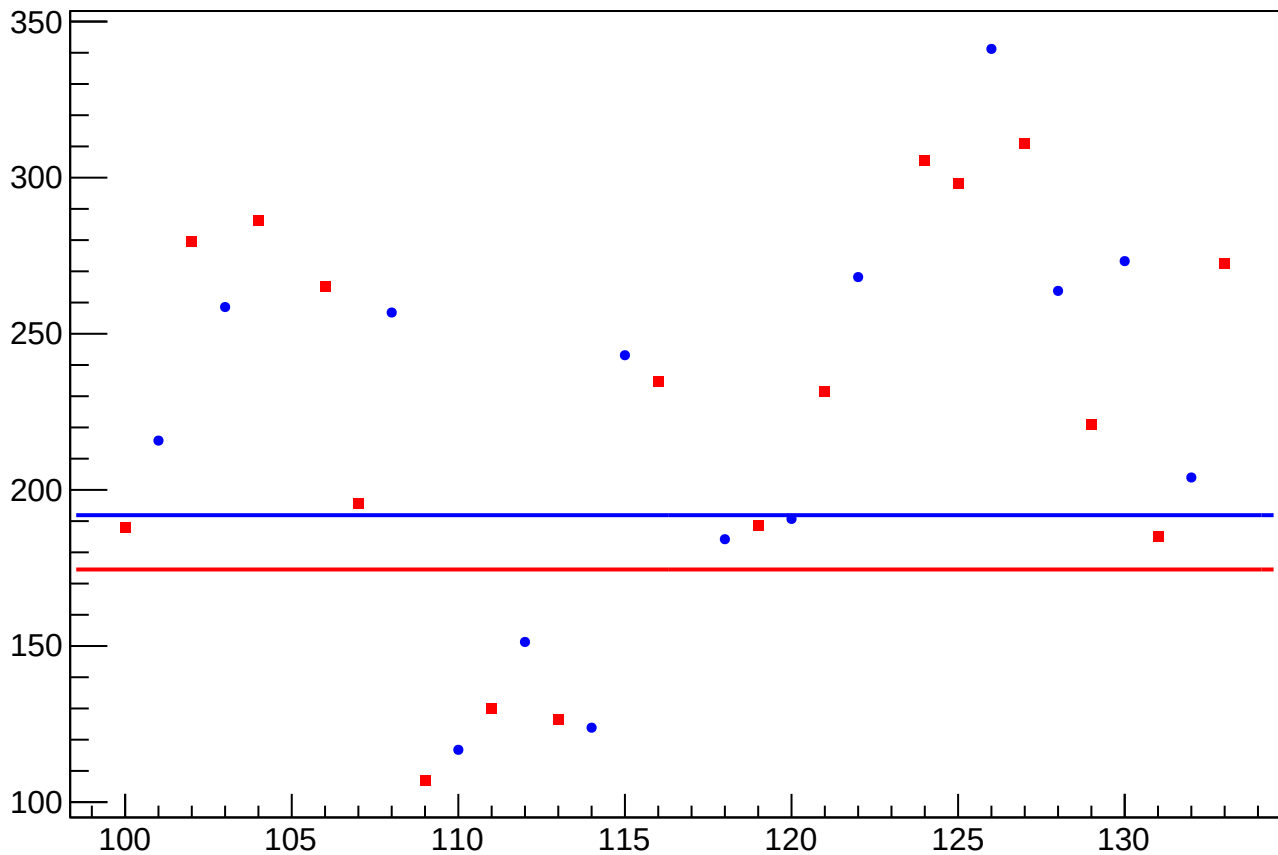
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $41.965 \pm 55.156$   $\chi^2/\text{NDF}$ : 25.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_target\_rms vs Slug



Right In: 191.904 $\pm$ 0.059  $\chi^2$ /NDF: 966872.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 174.509 $\pm$ 0.052  $\chi^2$ /NDF: 1612307.9/16

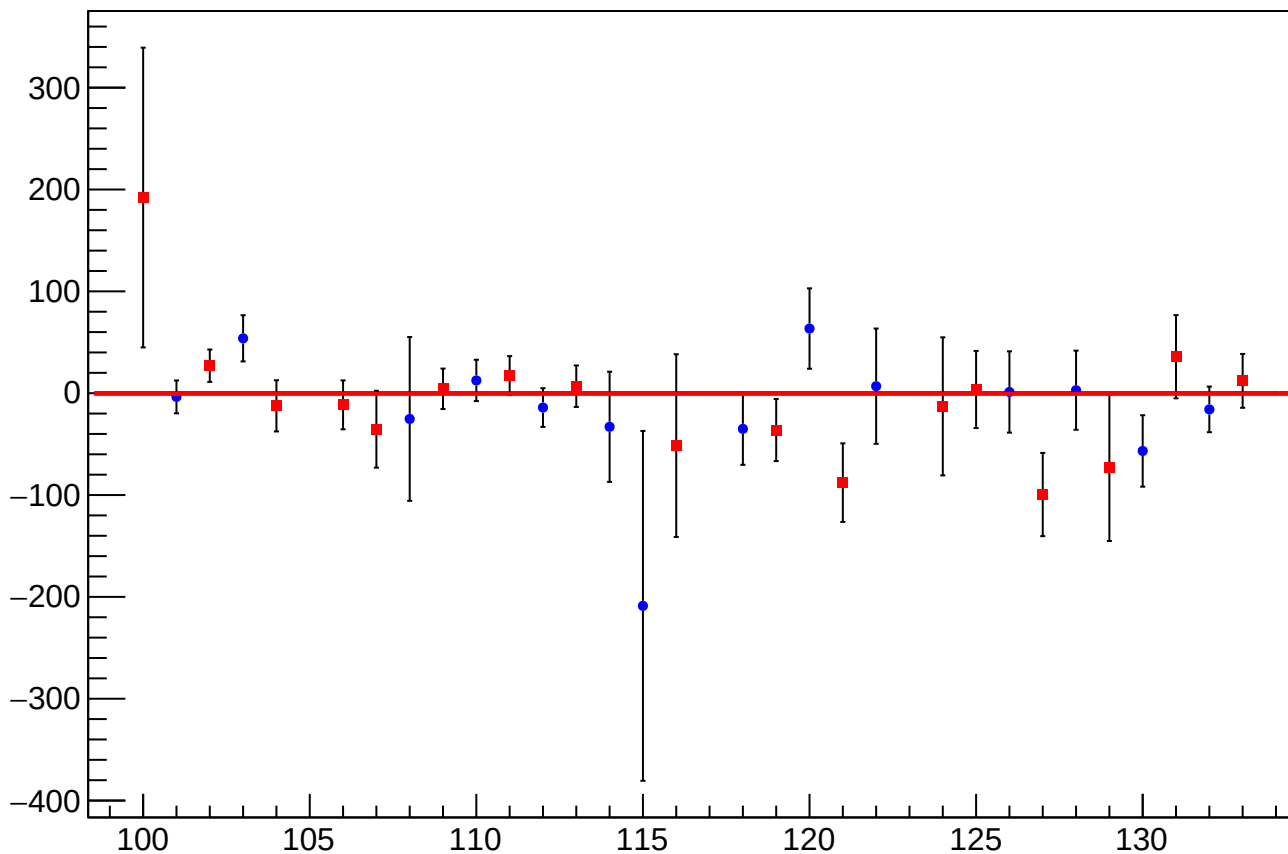
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 182.055 $\pm$ 0.039  $\chi^2$ /NDF: 2628036.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_diff\_mean vs Slug



Right In:  $-0.015 \pm 7.589$   $\chi^2/\text{NDF}$ : 15.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.618 \pm 6.849$   $\chi^2/\text{NDF}$ : 21.8/16

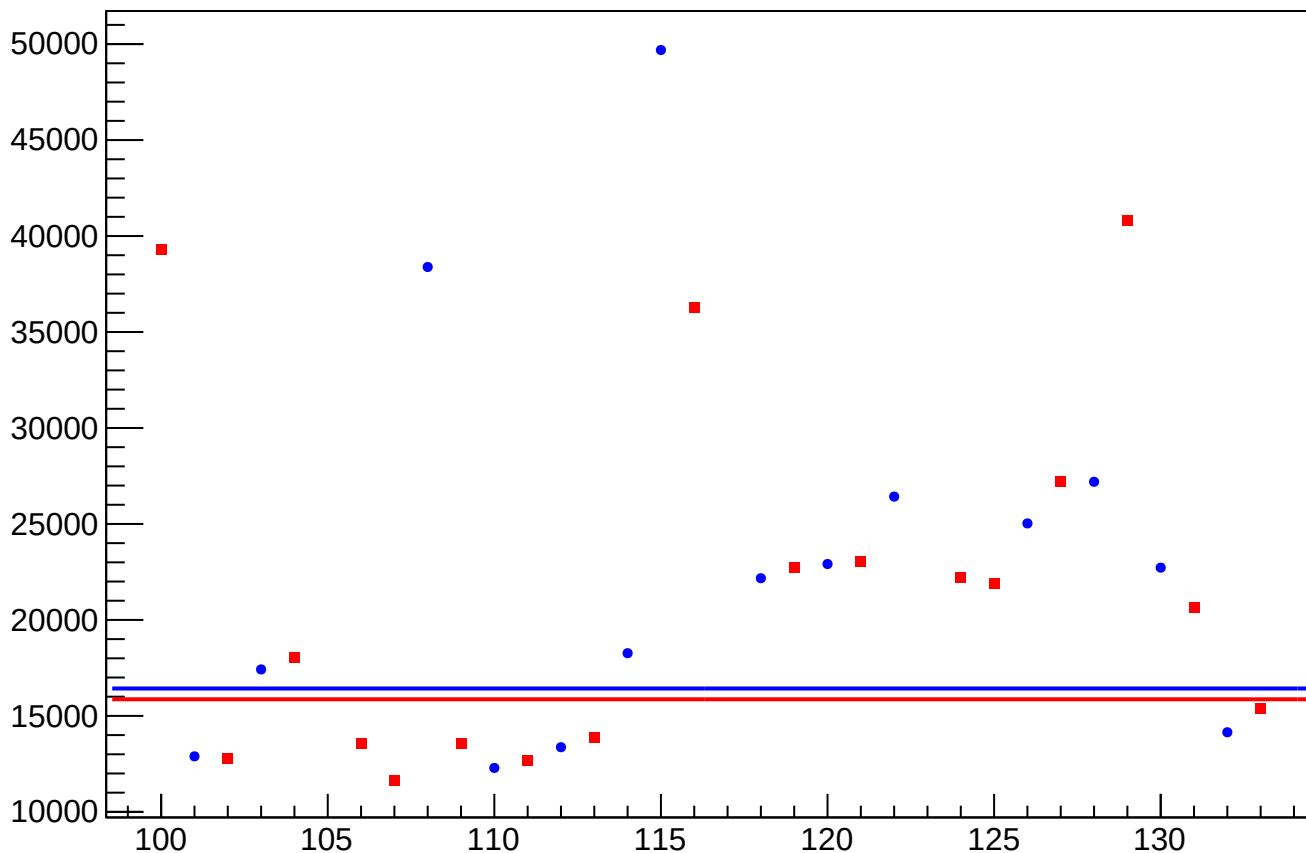
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.348 \pm 5.085$   $\chi^2/\text{NDF}$ : 37.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_diff\_rms vs Slug



Right In: 16427.357+/-5.366  $\chi^2/\text{NDF}$ : 962243.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15865.413+/-4.843  $\chi^2/\text{NDF}$ : 1053552.8/16

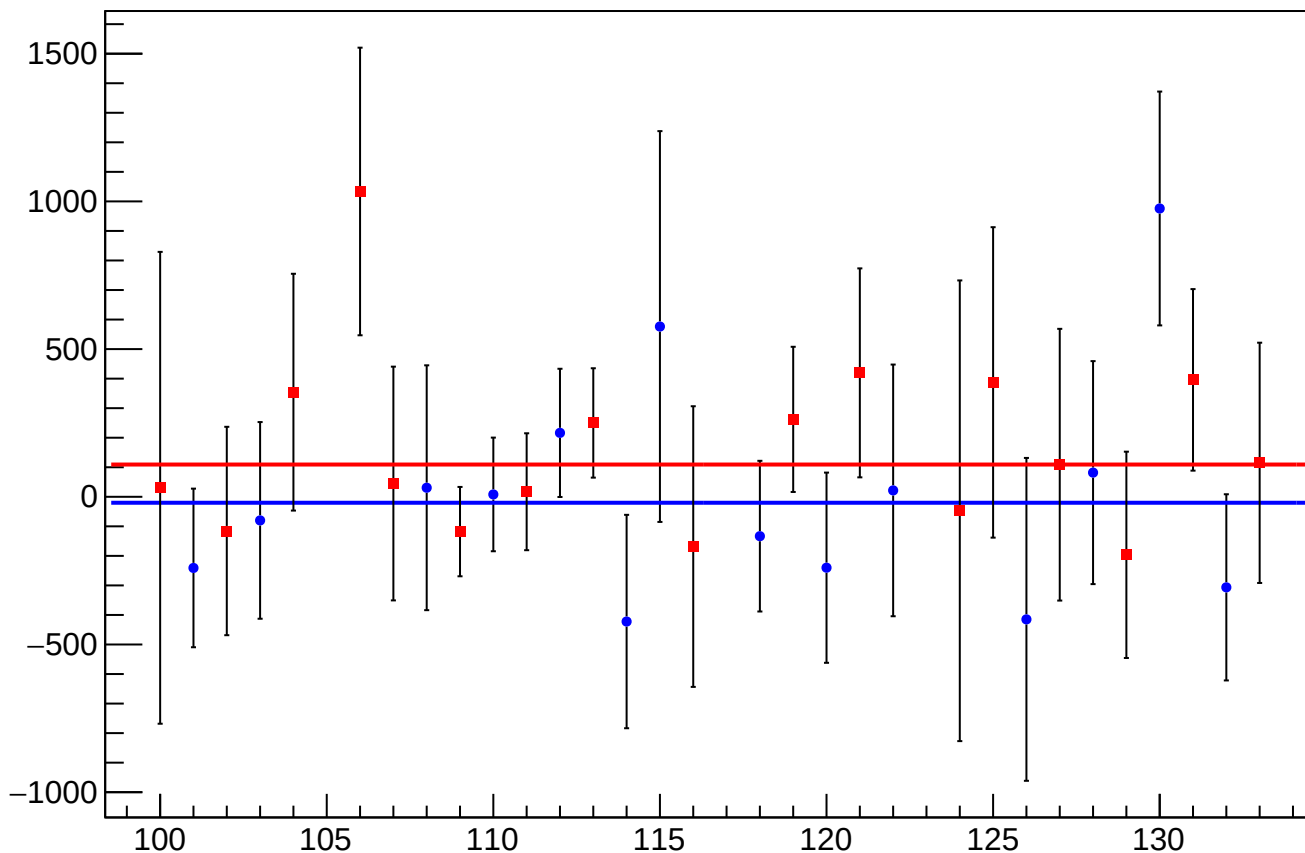
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16117.665+/-3.595  $\chi^2/\text{NDF}$ : 2021839.8/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_ds\_mean vs Slug



Right In:  $-20.156 \pm 83.254$   $\chi^2/\text{NDF}$ : 12.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $109.224 \pm 72.800$   $\chi^2/\text{NDF}$ : 10.9/16

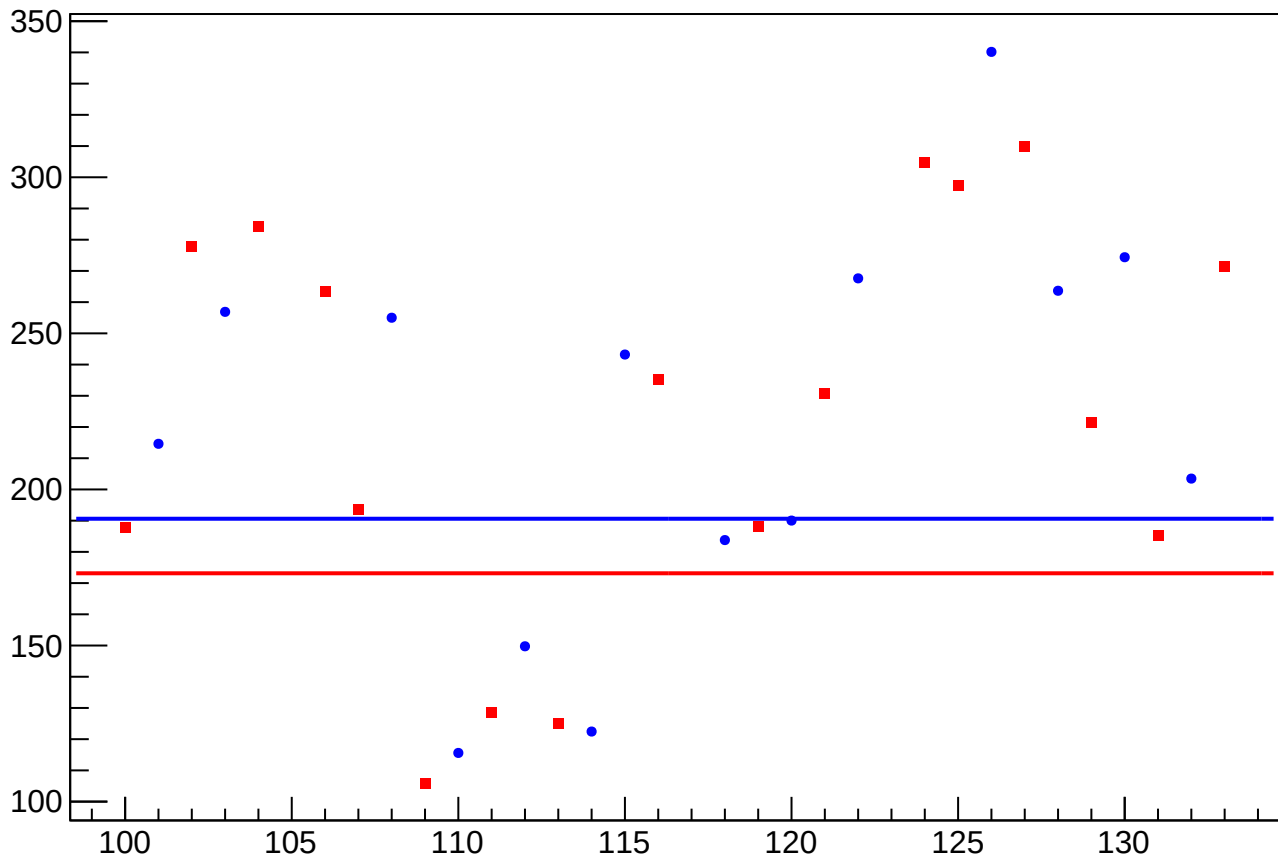
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $53.162 \pm 54.803$   $\chi^2/\text{NDF}$ : 24.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_ds\_rms vs Slug



Right In: 190.615+/-0.059  $\chi^2/\text{NDF}$ : 986889.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 173.141+/-0.051  $\chi^2/\text{NDF}$ : 1635698.2/16

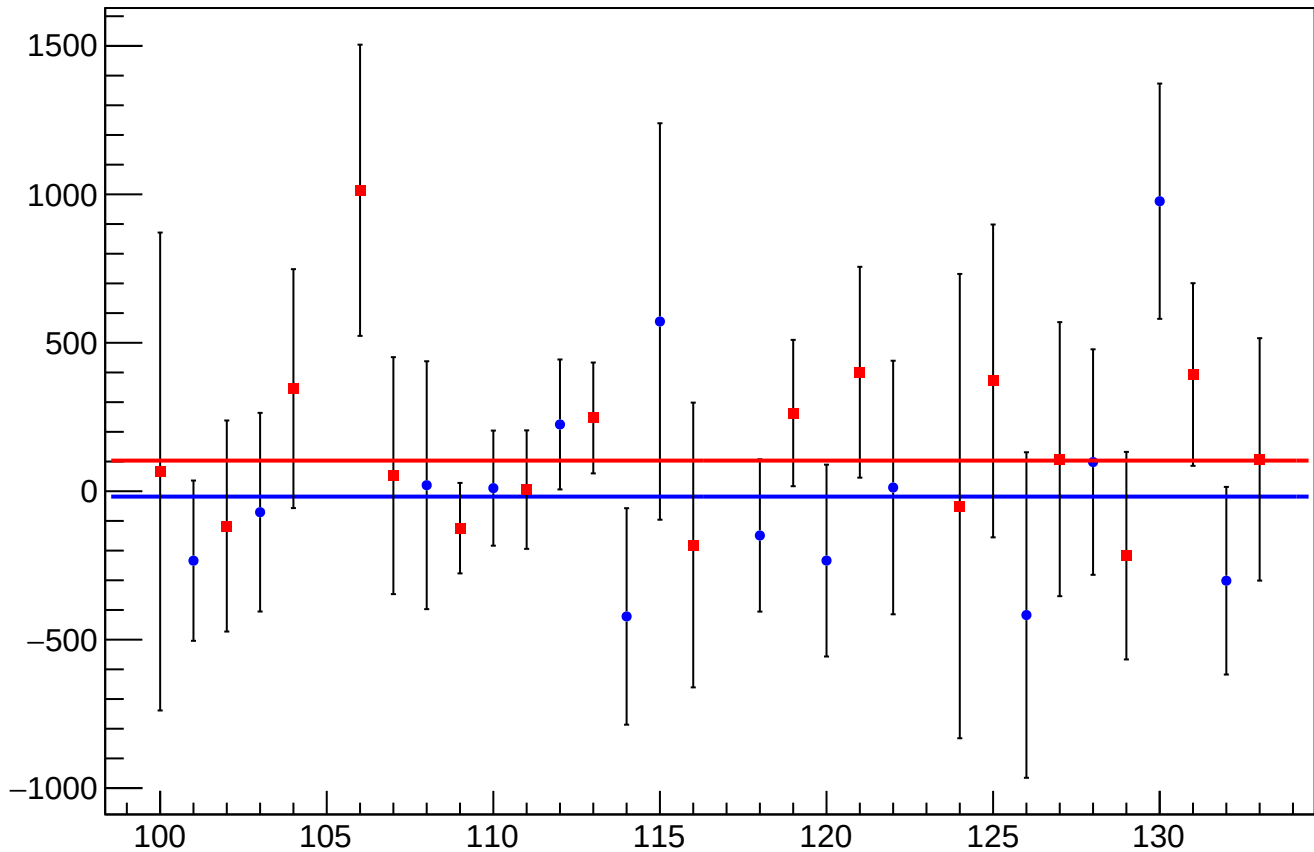
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 180.713+/-0.039  $\chi^2/\text{NDF}$ : 2672513.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_ds3\_mean vs Slug



Right In:  $-18.102 \pm 83.757$   $\chi^2/\text{NDF}$ : 12.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $103.165 \pm 73.257$   $\chi^2/\text{NDF}$ : 10.8/16

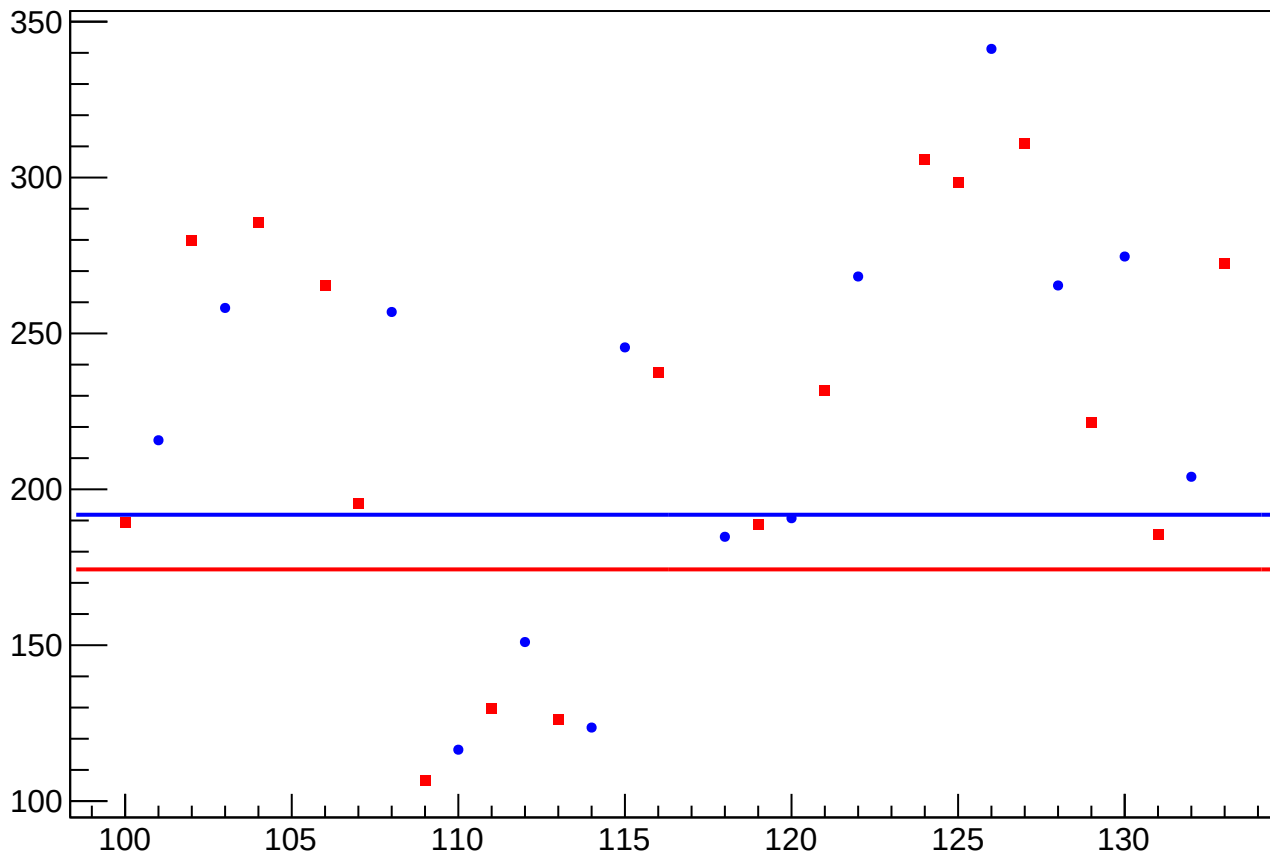
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $50.605 \pm 55.141$   $\chi^2/\text{NDF}$ : 24.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_ds3\_rms vs Slug



Right In:  $191.848 \pm 0.059$   $\chi^2/\text{NDF}$ : 977200.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $174.317 \pm 0.052$   $\chi^2/\text{NDF}$ : 1623099.3/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

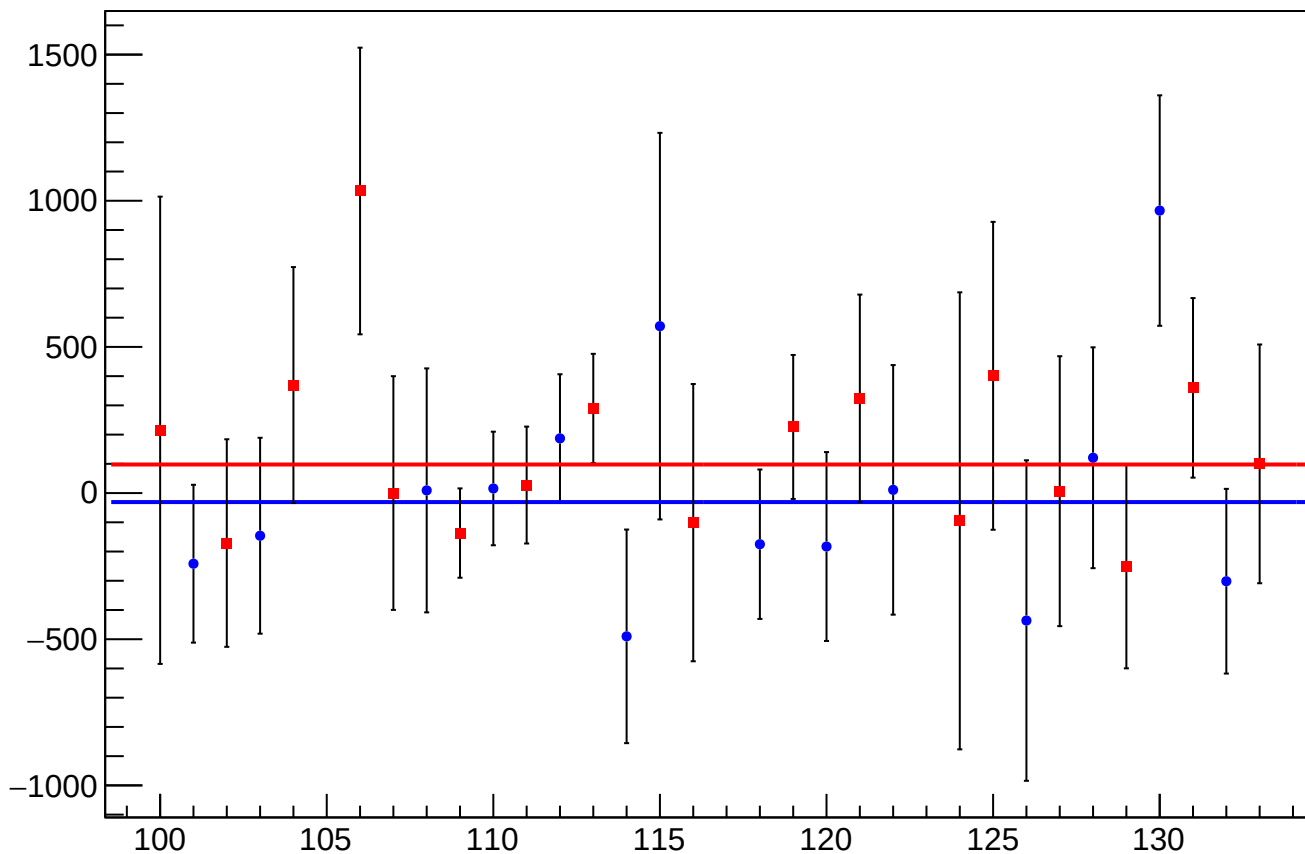
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $181.915 \pm 0.039$   $\chi^2/\text{NDF}$ : 2649940.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bcm\_an\_us\_mean vs Slug



Right In:  $-30.813 \pm 83.743$   $\chi^2/\text{NDF}$ : 12.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $97.723 \pm 73.300$   $\chi^2/\text{NDF}$ : 11.3/16

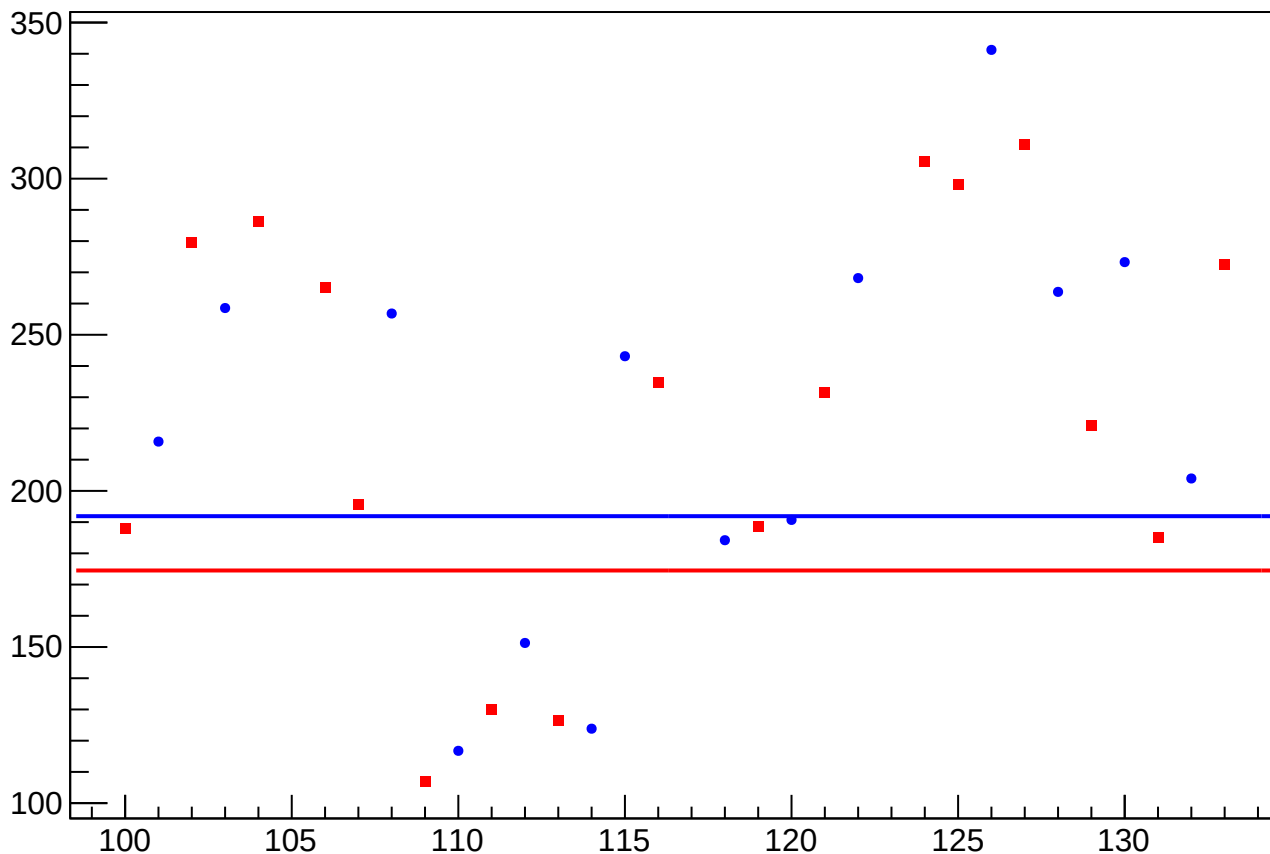
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $41.965 \pm 55.156$   $\chi^2/\text{NDF}$ : 25.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_rms vs Slug



Right In: 191.904 $\pm$ 0.059  $\chi^2$ /NDF: 966872.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 174.509 $\pm$ 0.052  $\chi^2$ /NDF: 1612307.9/16

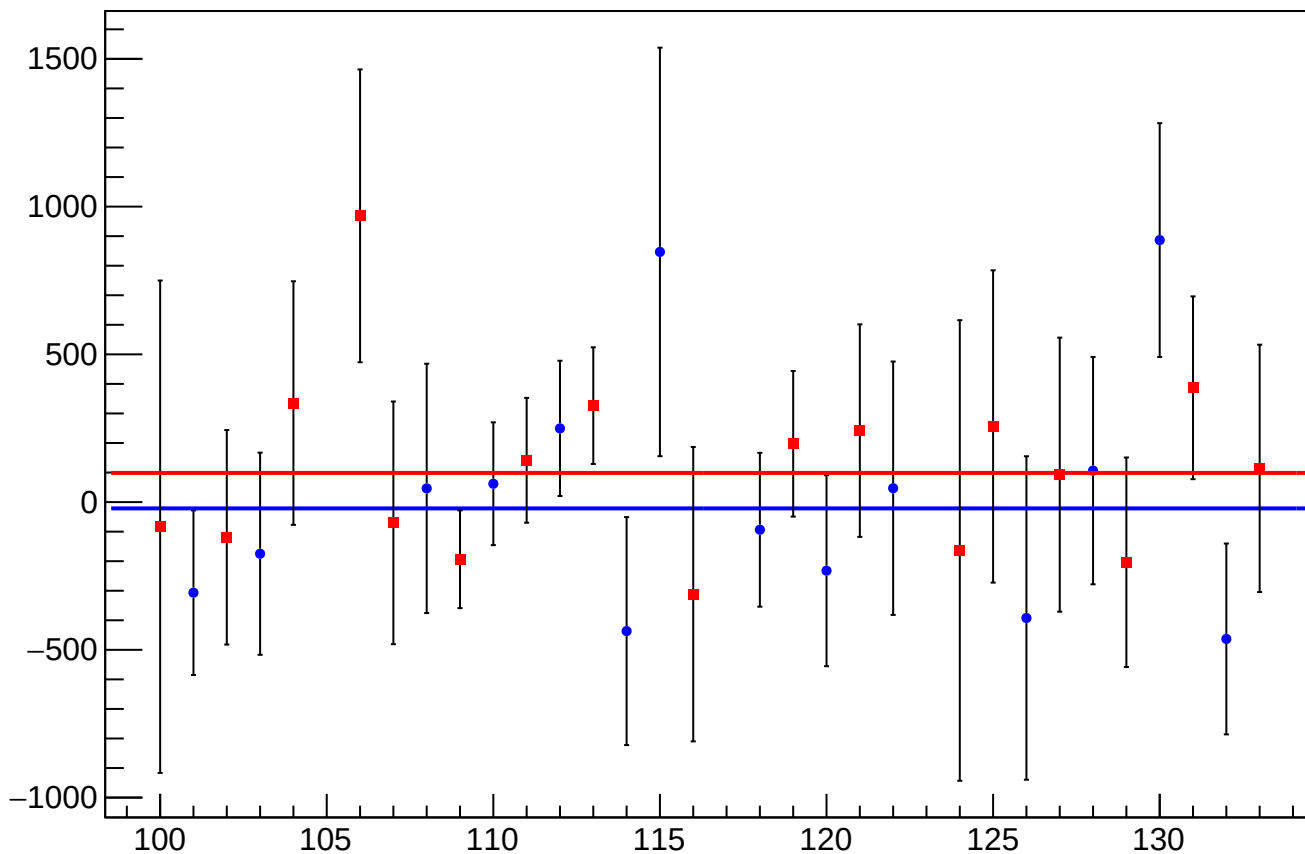
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 182.055 $\pm$ 0.039  $\chi^2$ /NDF: 2628036.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_mean vs Slug



Right In:  $-21.334 \pm 86.407$   $\chi^2/\text{NDF}$ : 13.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $98.758 \pm 76.295$   $\chi^2/\text{NDF}$ : 11.3/16

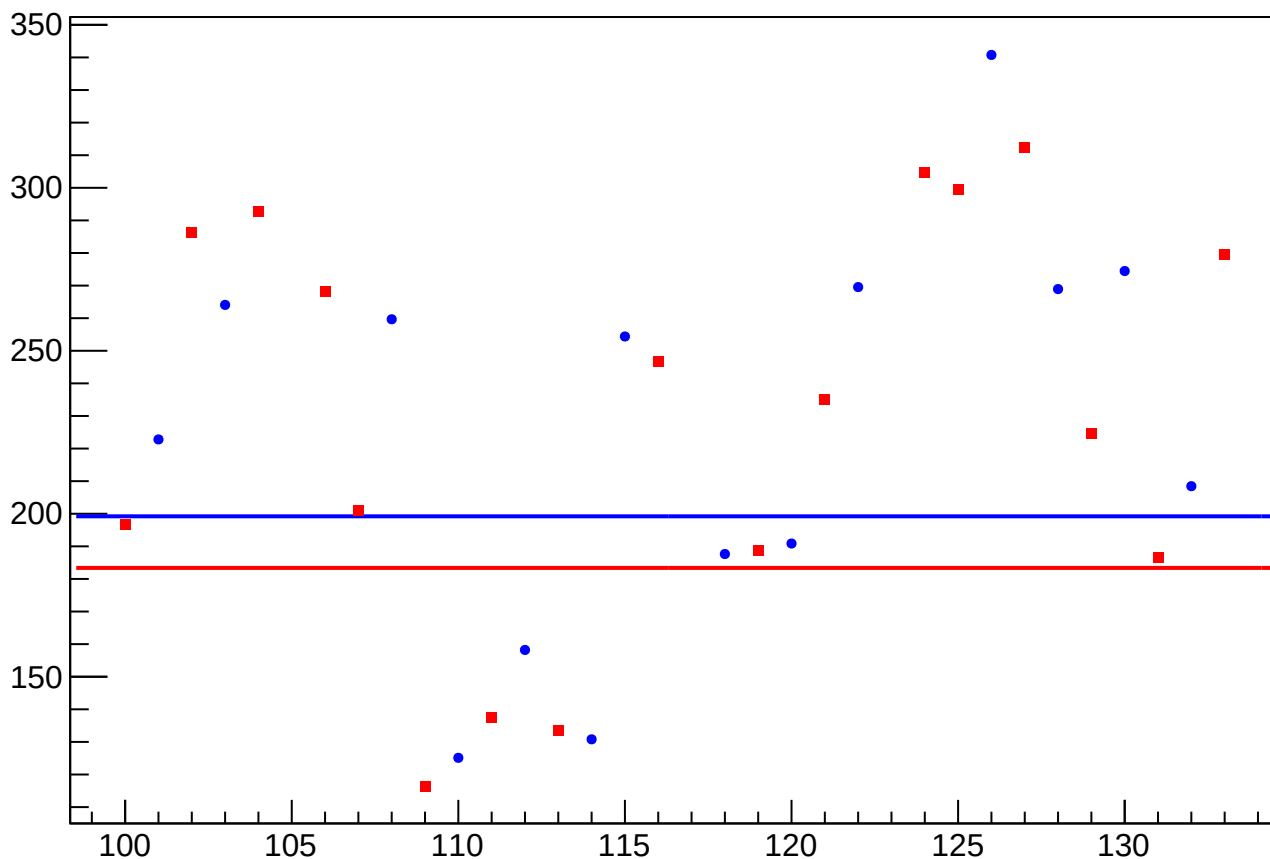
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $46.148 \pm 57.191$   $\chi^2/\text{NDF}$ : 26.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_rms vs Slug



Right In: 199.214+/-0.061  $\chi^2/\text{NDF}$ : 853913.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 183.386+/-0.054  $\chi^2/\text{NDF}$ : 1420590.2/16

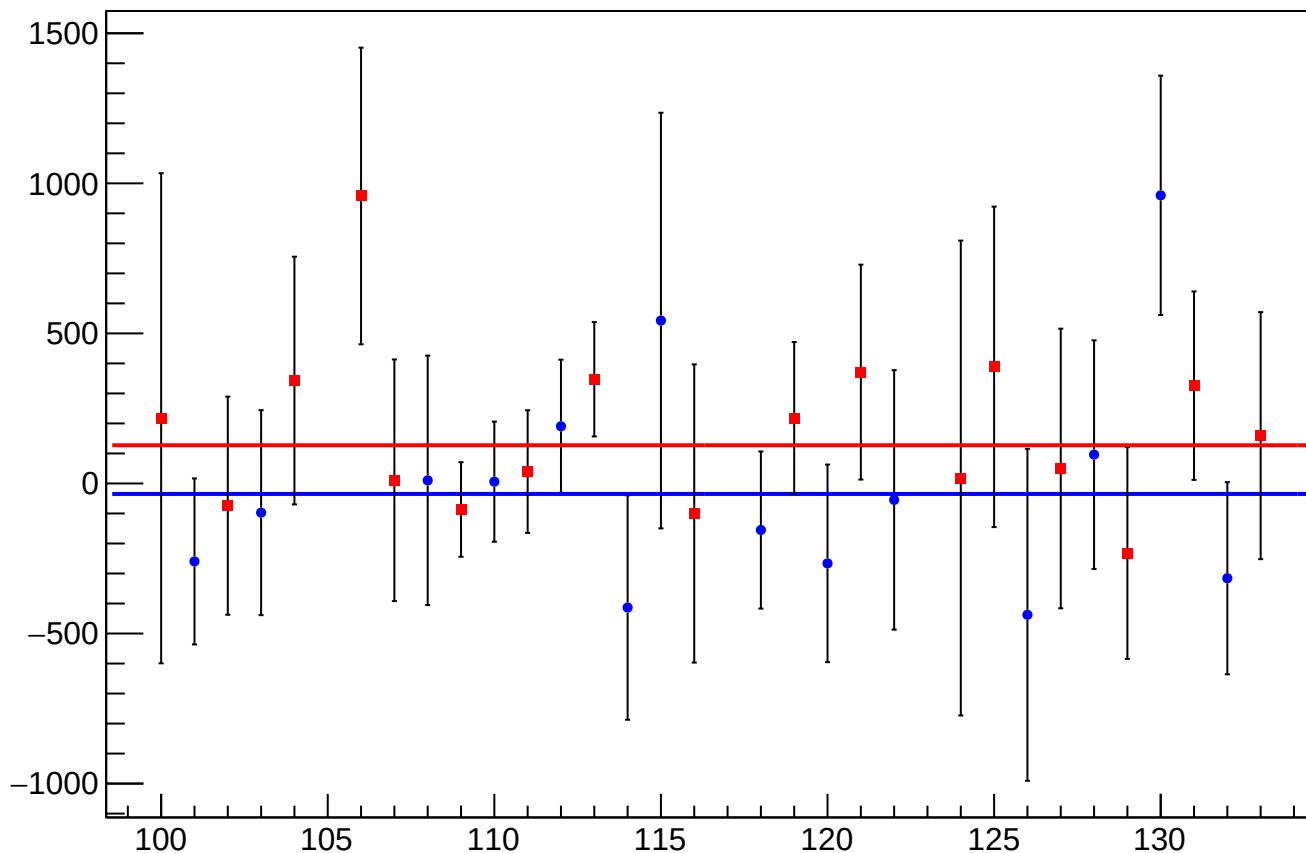
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 190.320+/-0.040  $\chi^2/\text{NDF}$ : 2312214.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_mean vs Slug



Right In: -34.935+/-85.332  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 127.289+/-74.902  $\chi^2/\text{NDF}$ : 9.4/16

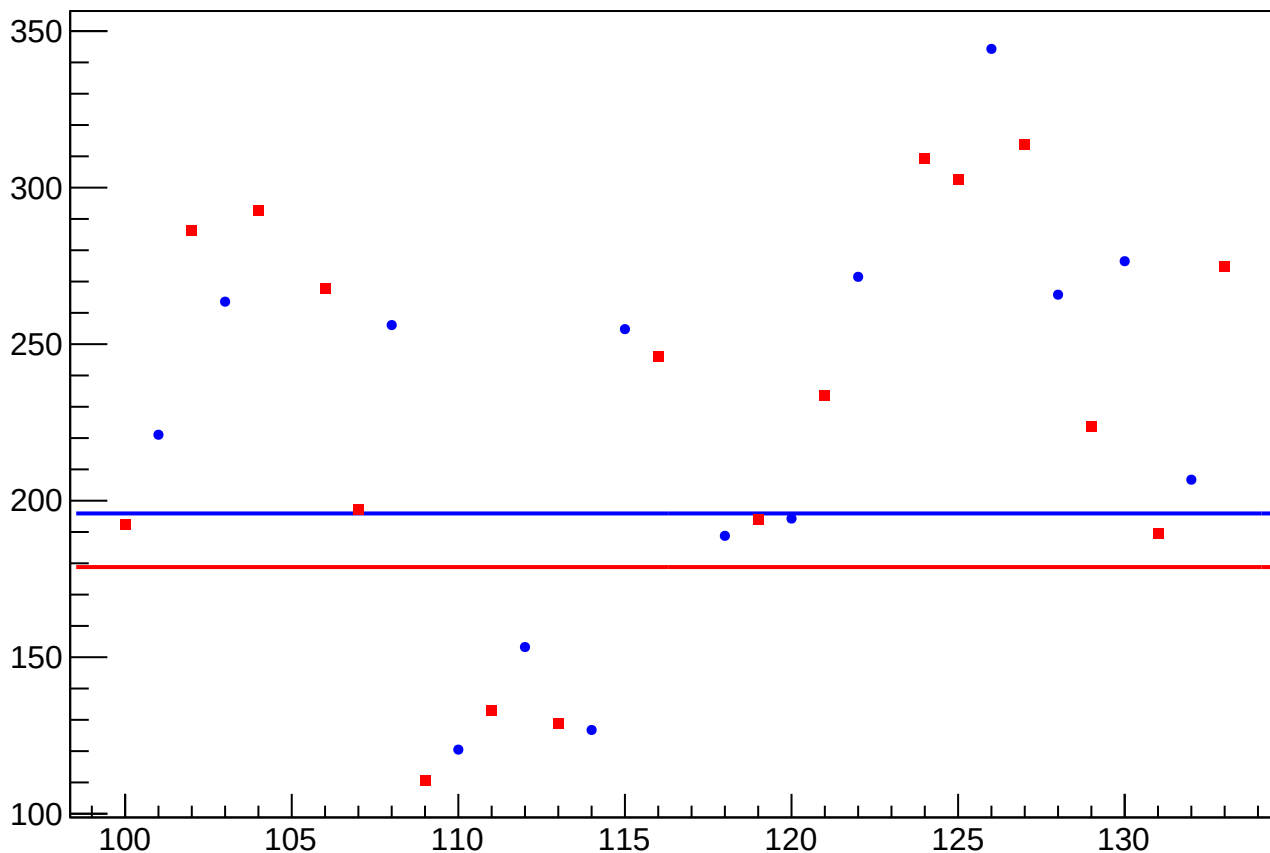
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.691+/-56.292  $\chi^2/\text{NDF}$ : 23.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_rms vs Slug



Right In: 195.927+/-0.060  $\chi^2/\text{NDF}$ : 935772.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 178.798+/-0.053  $\chi^2/\text{NDF}$ : 1573154.4/16

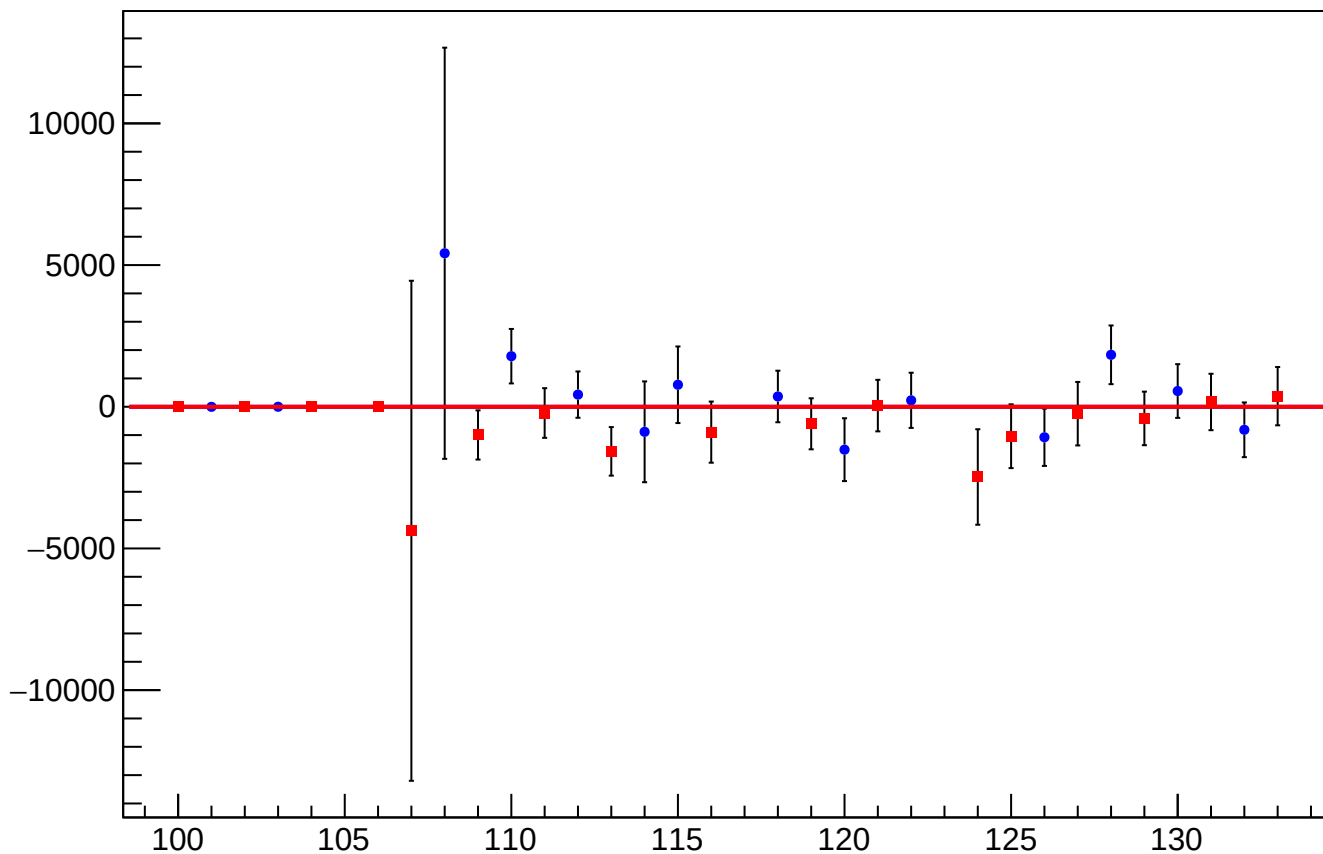
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 186.252+/-0.040  $\chi^2/\text{NDF}$ : 2554446.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_cav4bQ\_mean vs Slug



Right In: -1.206 $\pm$ 2.171  $\chi^2$ /NDF: 12.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.391 $\pm$ 2.022  $\chi^2$ /NDF: 14.7/16

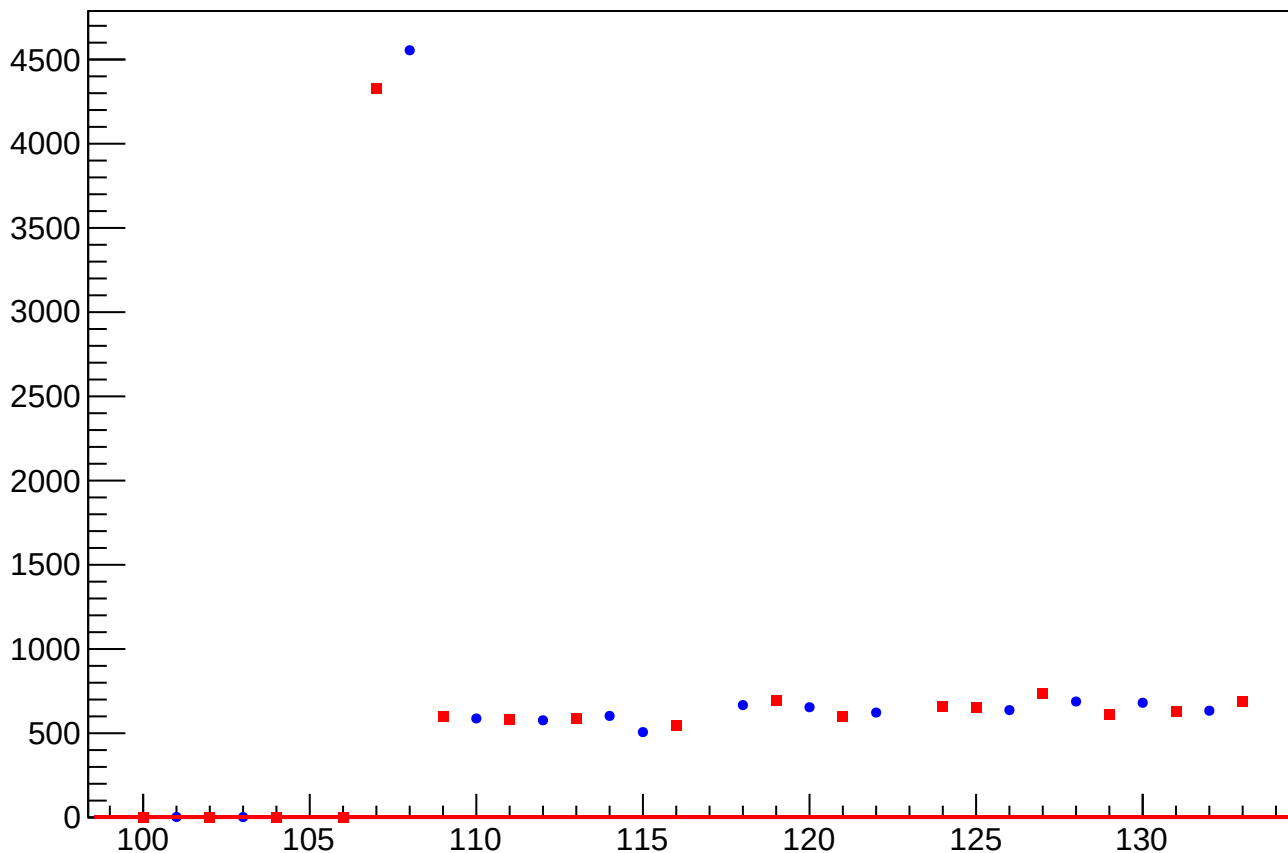
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.305 $\pm$ 1.480  $\chi^2$ /NDF: 27.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4bQ\_rms vs Slug



Right In: 2.461+/-0.002     $\chi^2/\text{NDF}$ : 9155690.6/13

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.454+/-0.001     $\chi^2/\text{NDF}$ : 10151867.3/16

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

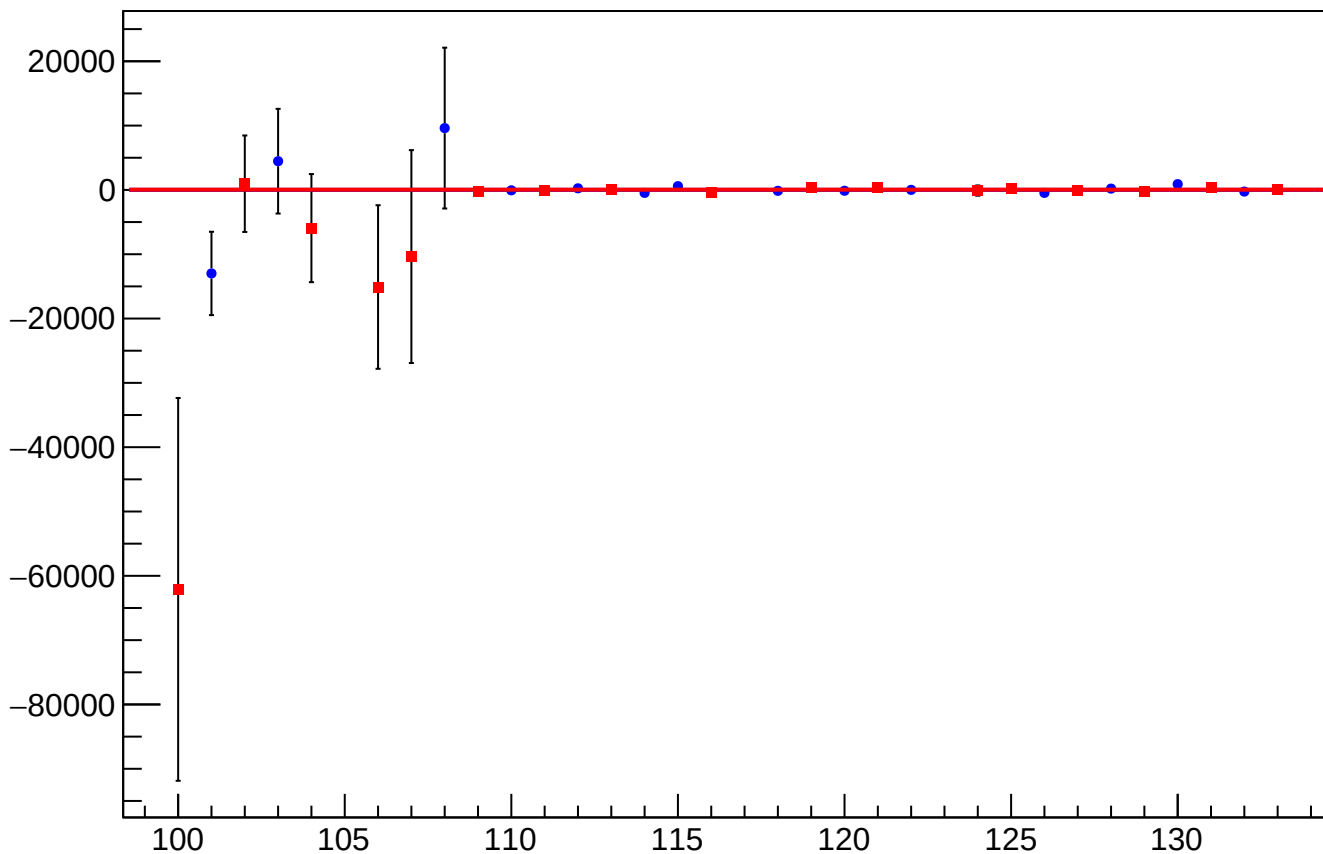
+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 2.457+/-0.001     $\chi^2/\text{NDF}$ : 19307569.6/30

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0



# asym\_cav4cQ\_mean vs Slug



Right In: 8.005+/-97.806  $\chi^2$ /NDF: 15.2/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 35.079+/-89.125  $\chi^2$ /NDF: 12.1/16

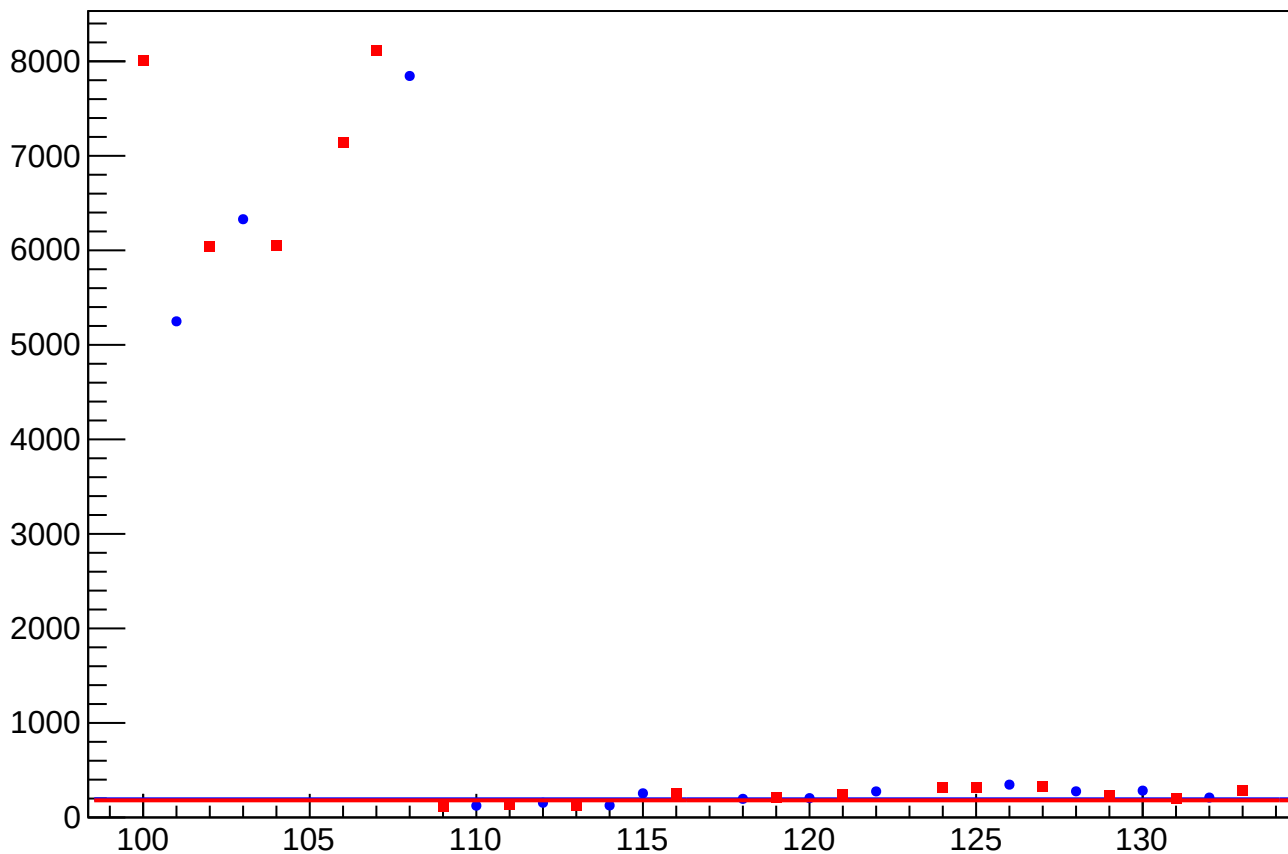
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 22.797+/-65.877  $\chi^2$ /NDF: 27.4/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4cQ\_rms vs Slug



Right In: 191.876+/-0.069  $\chi^2/\text{NDF}$ : 3877341.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 181.236+/-0.063  $\chi^2/\text{NDF}$ : 4401894.8/16

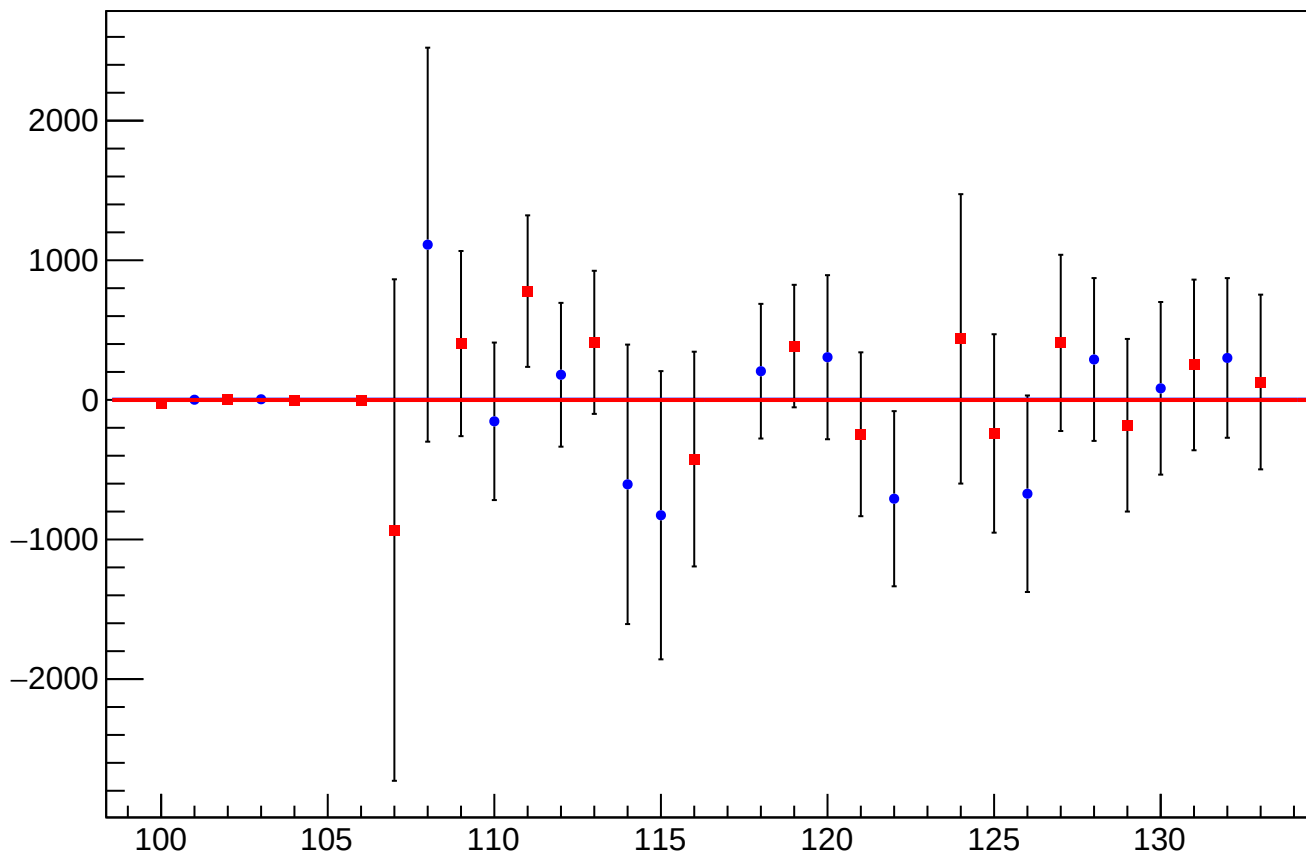
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 186.063+/-0.047  $\chi^2/\text{NDF}$ : 8292169.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_cav4dQ\_mean vs Slug



Right In: 1.443 $\pm$ 1.660  $\chi^2$ /NDF: 5.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.097 $\pm$ 1.528  $\chi^2$ /NDF: 8.1/16

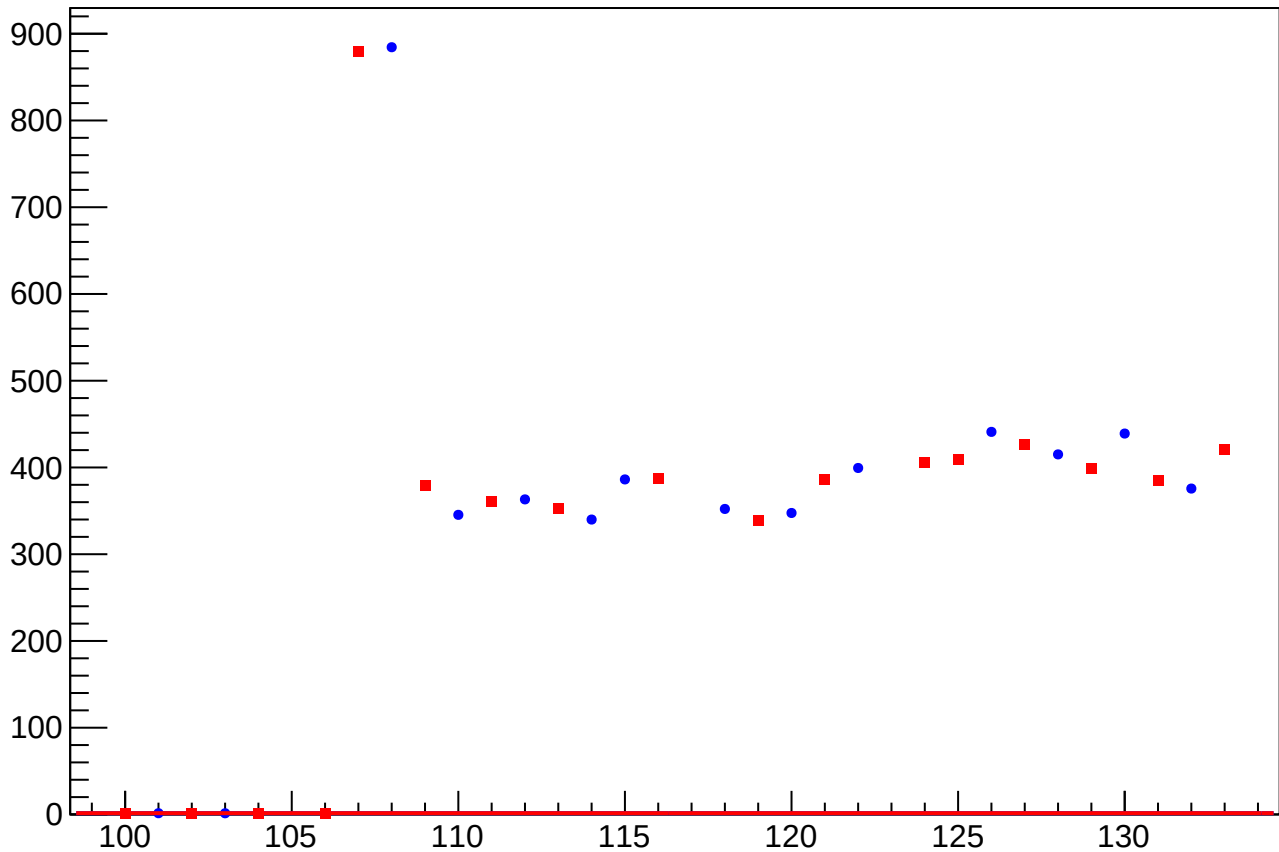
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.068 $\pm$ 1.124  $\chi^2$ /NDF: 14.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4dQ\_rms vs Slug



Right In: 1.461+/-0.001  $\chi^2/\text{NDF}$ : 9221763.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.463+/-0.001  $\chi^2/\text{NDF}$ : 9863297.6/16

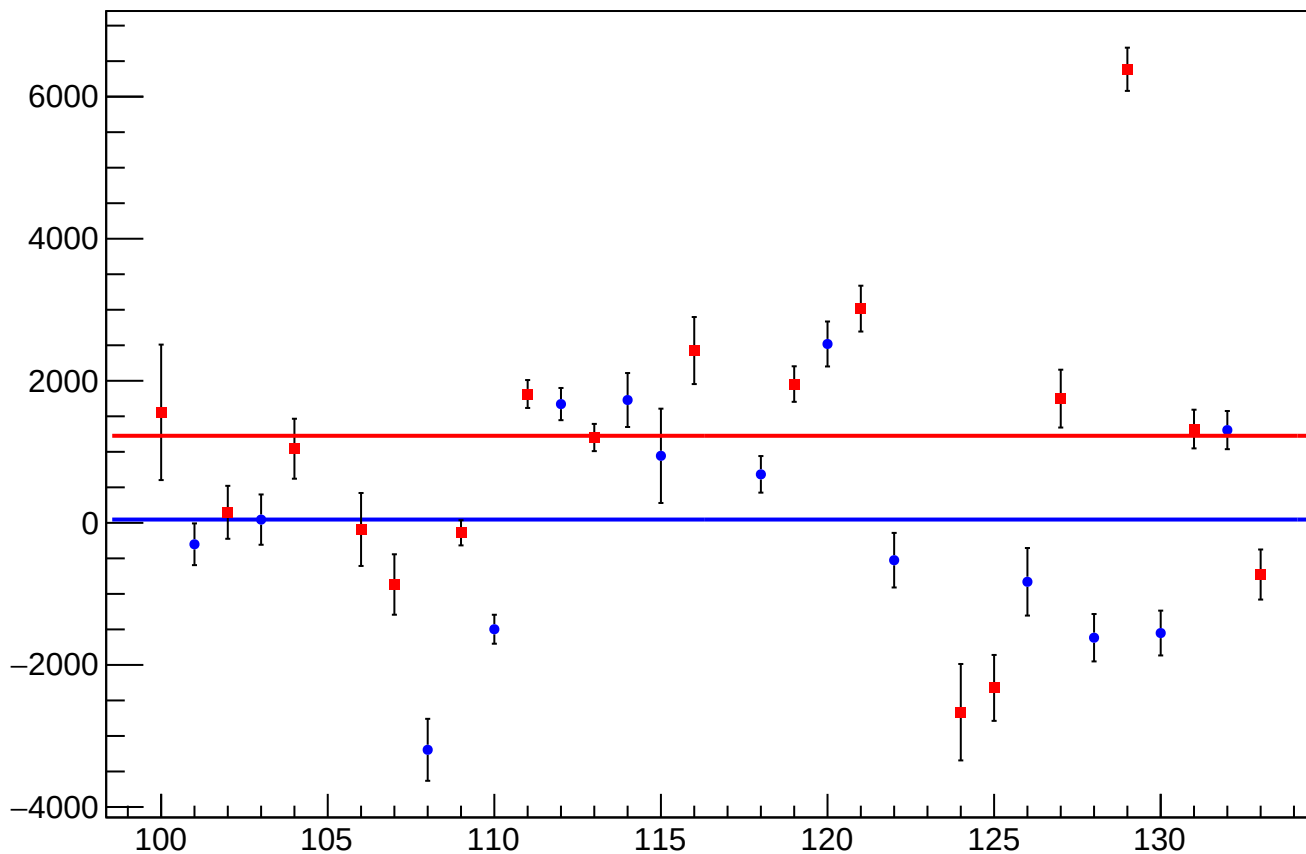
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.462+/-0.001  $\chi^2/\text{NDF}$ : 19085061.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm0l02\_mean vs Slug



Right In: 46.699+/-82.562  $\chi^2/\text{NDF}$ : 332.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1225.799+/-73.850  $\chi^2/\text{NDF}$ : 564.9/16

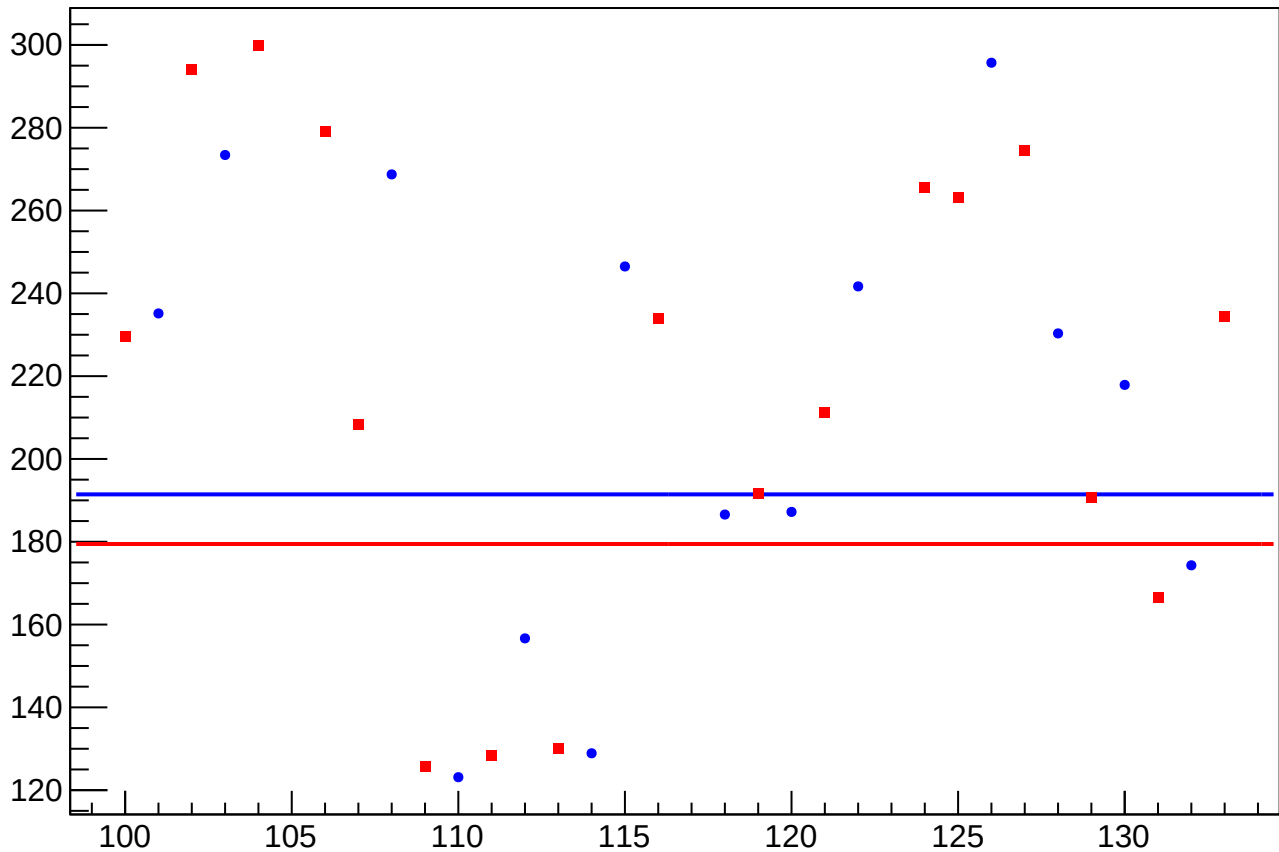
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 701.719+/-55.043  $\chi^2/\text{NDF}$ : 1010.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm0l02\_rms vs Slug



Right In:  $191.446 \pm 0.058$   $\chi^2/\text{NDF}$ : 734833.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $179.457 \pm 0.052$   $\chi^2/\text{NDF}$ : 1207213.3/16

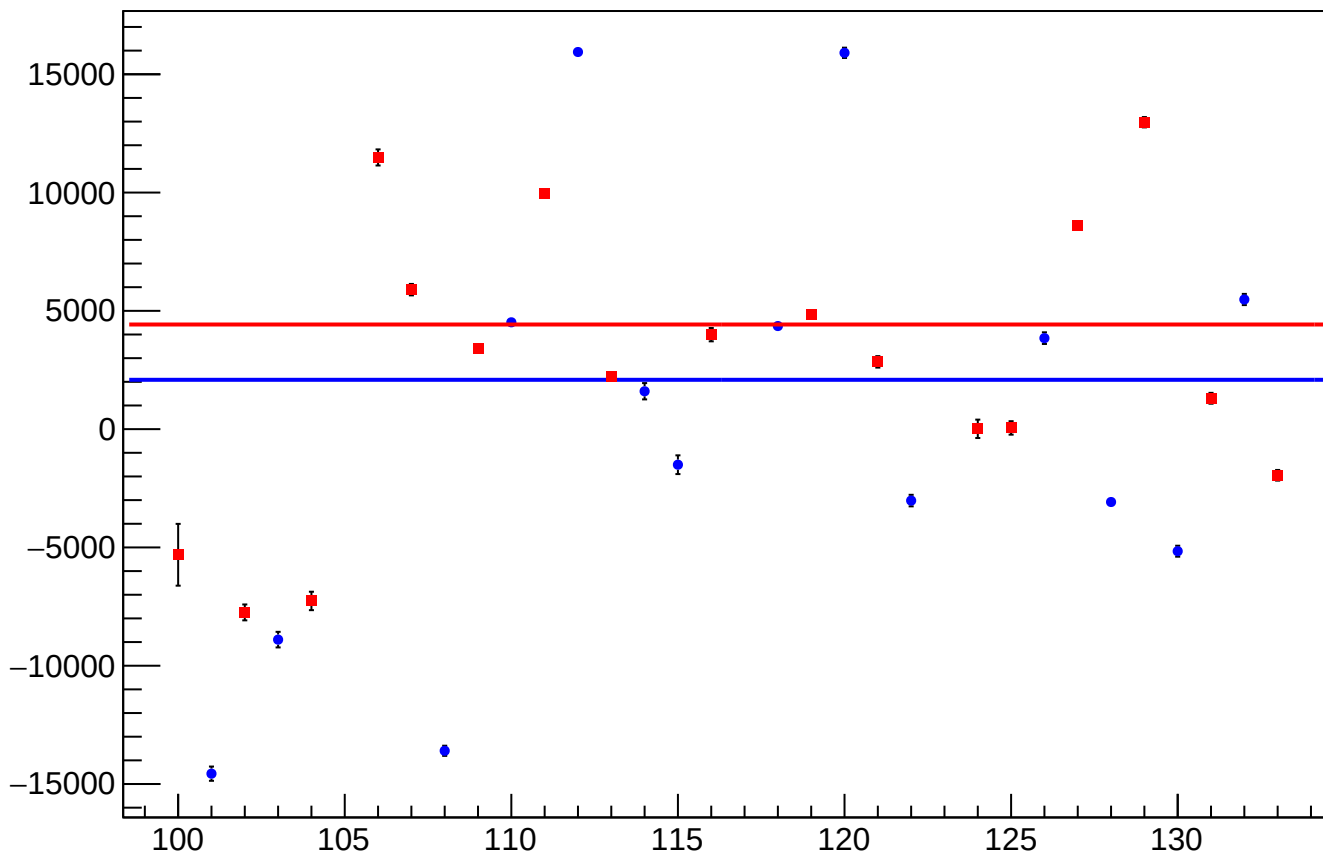
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $184.785 \pm 0.039$   $\chi^2/\text{NDF}$ : 1965475.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02WS\_mean vs Slug



Right In: 2085.385+/-60.247  $\chi^2/\text{NDF}$ : 22736.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4423.001+/-55.480  $\chi^2/\text{NDF}$ : 7575.5/16

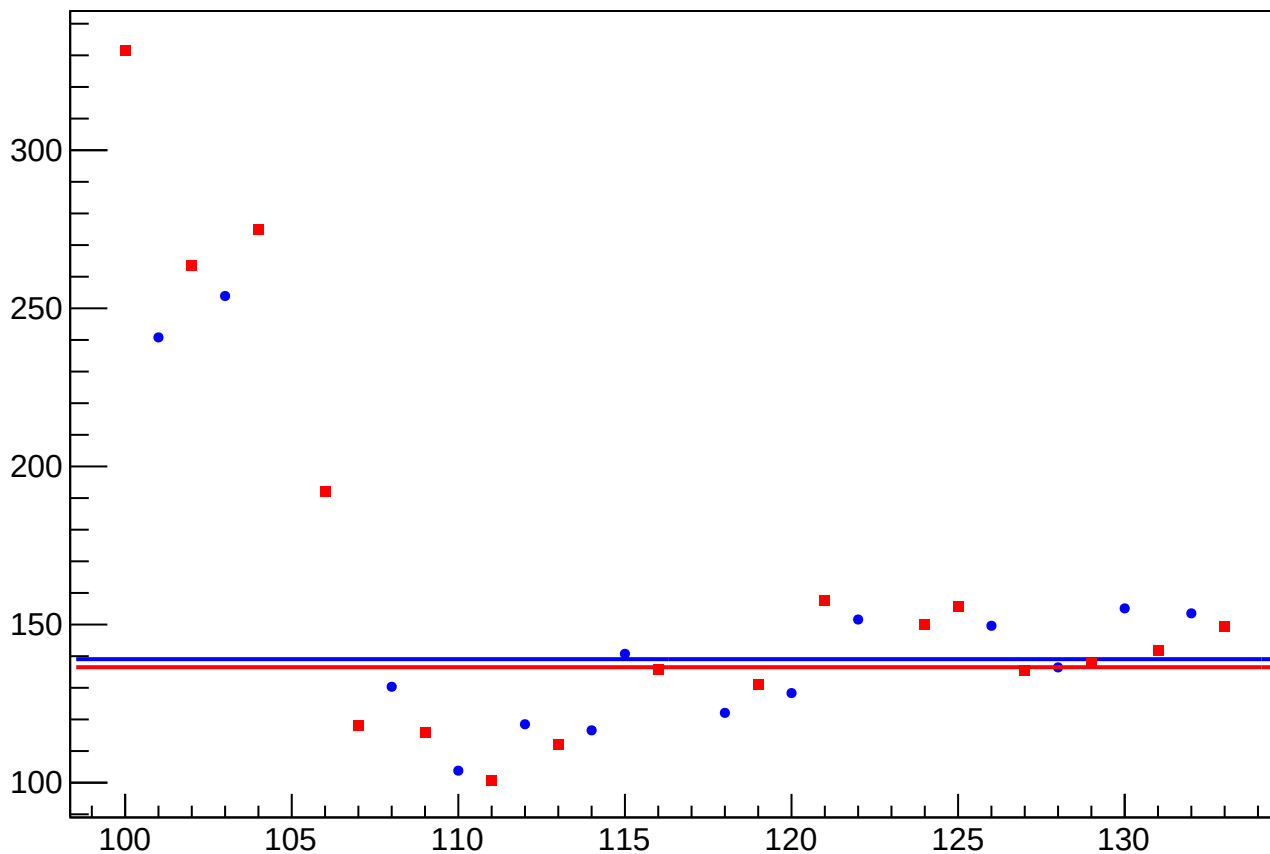
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3350.310+/-40.812  $\chi^2/\text{NDF}$ : 31127.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02WS\_rms vs Slug



Right In: 139.054 $\pm$ 0.043  $\chi^2$ /NDF: 646006.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 136.513 $\pm$ 0.039  $\chi^2$ /NDF: 866000.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

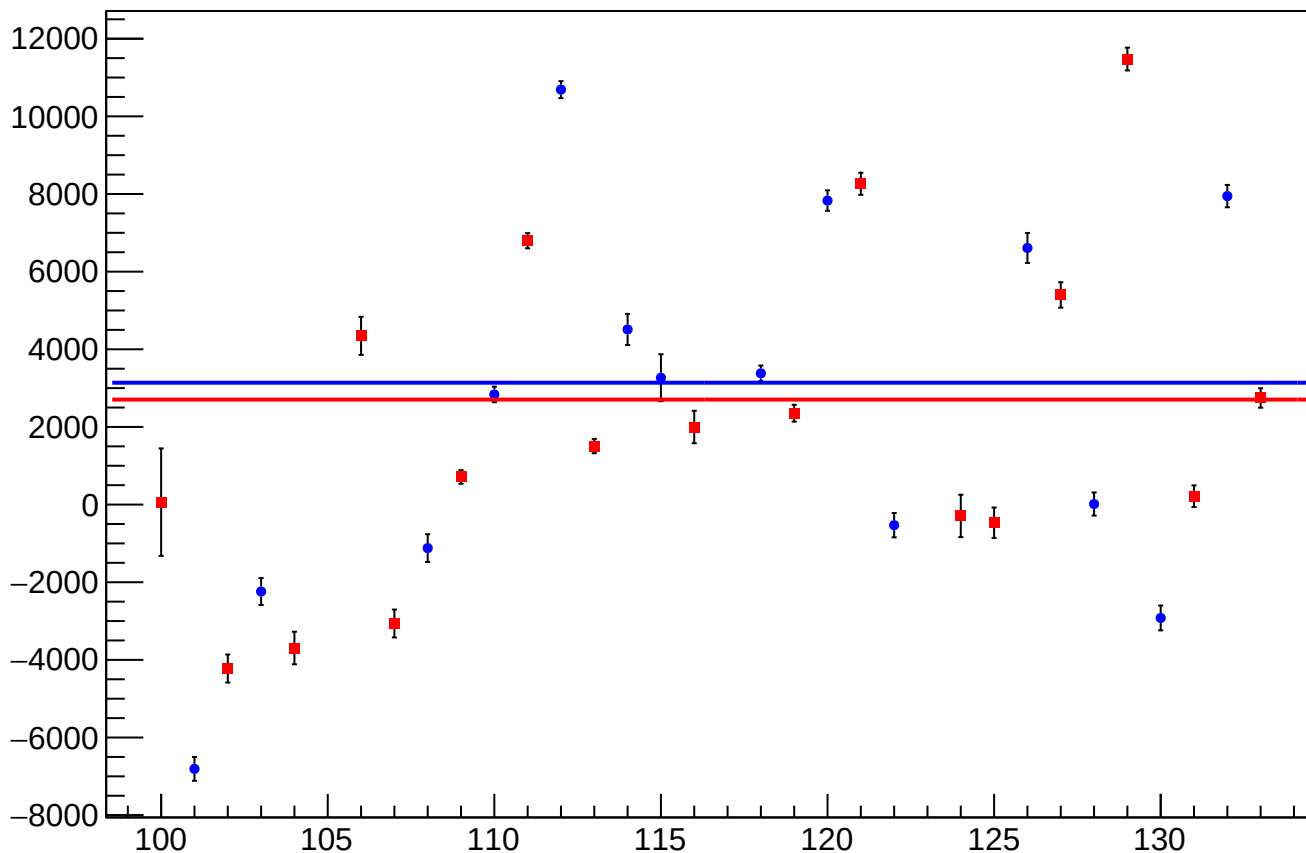
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 137.679 $\pm$ 0.029  $\chi^2$ /NDF: 1513932.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bpm0i02aWS\_mean vs Slug



Right In: 3139.509+/-76.520  $\chi^2/\text{NDF}$ : 3930.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2704.904+/-68.598  $\chi^2/\text{NDF}$ : 3004.2/16

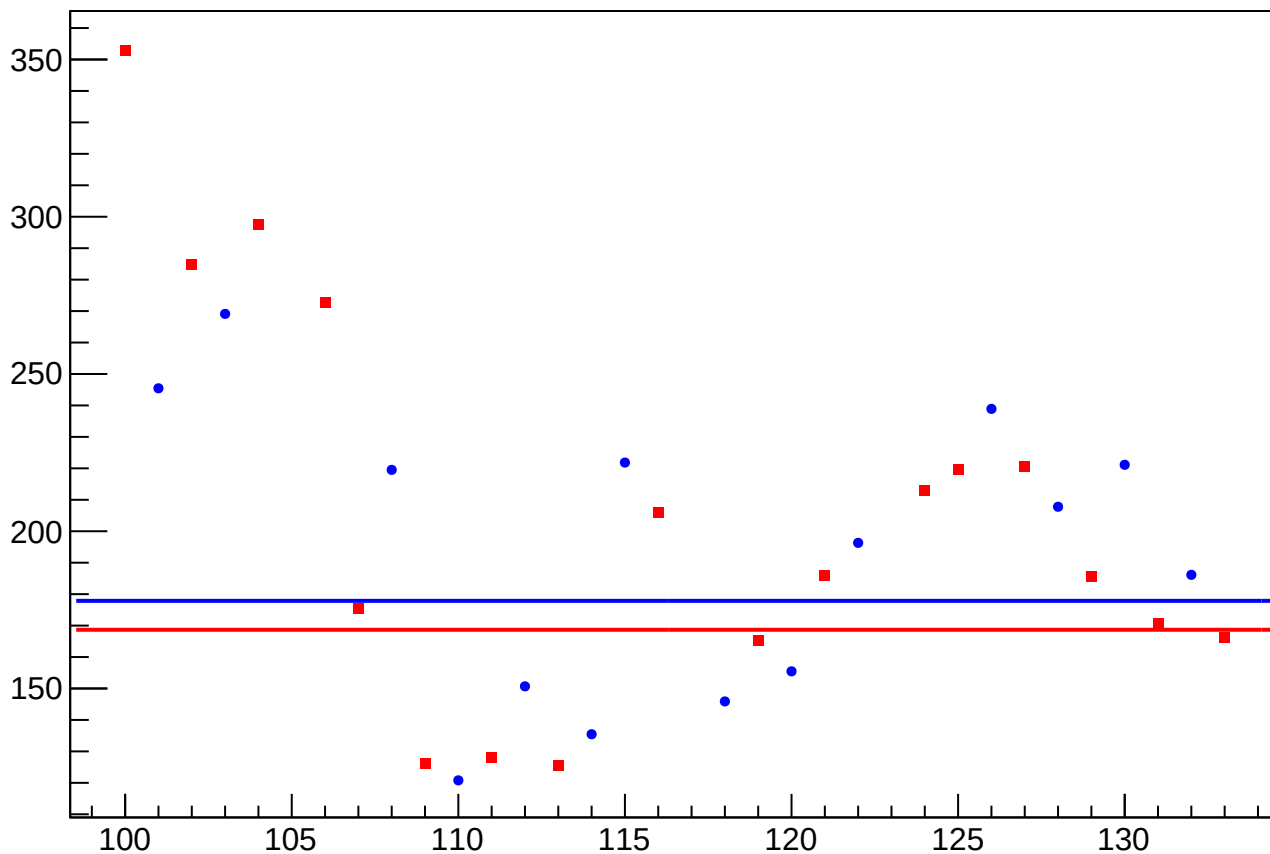
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2898.551+/-51.078  $\chi^2/\text{NDF}$ : 6952.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02aWS\_rms vs Slug



Right In: 177.873+/-0.054  $\chi^2/\text{NDF}$ : 667890.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 168.672+/-0.049  $\chi^2/\text{NDF}$ : 963388.2/16

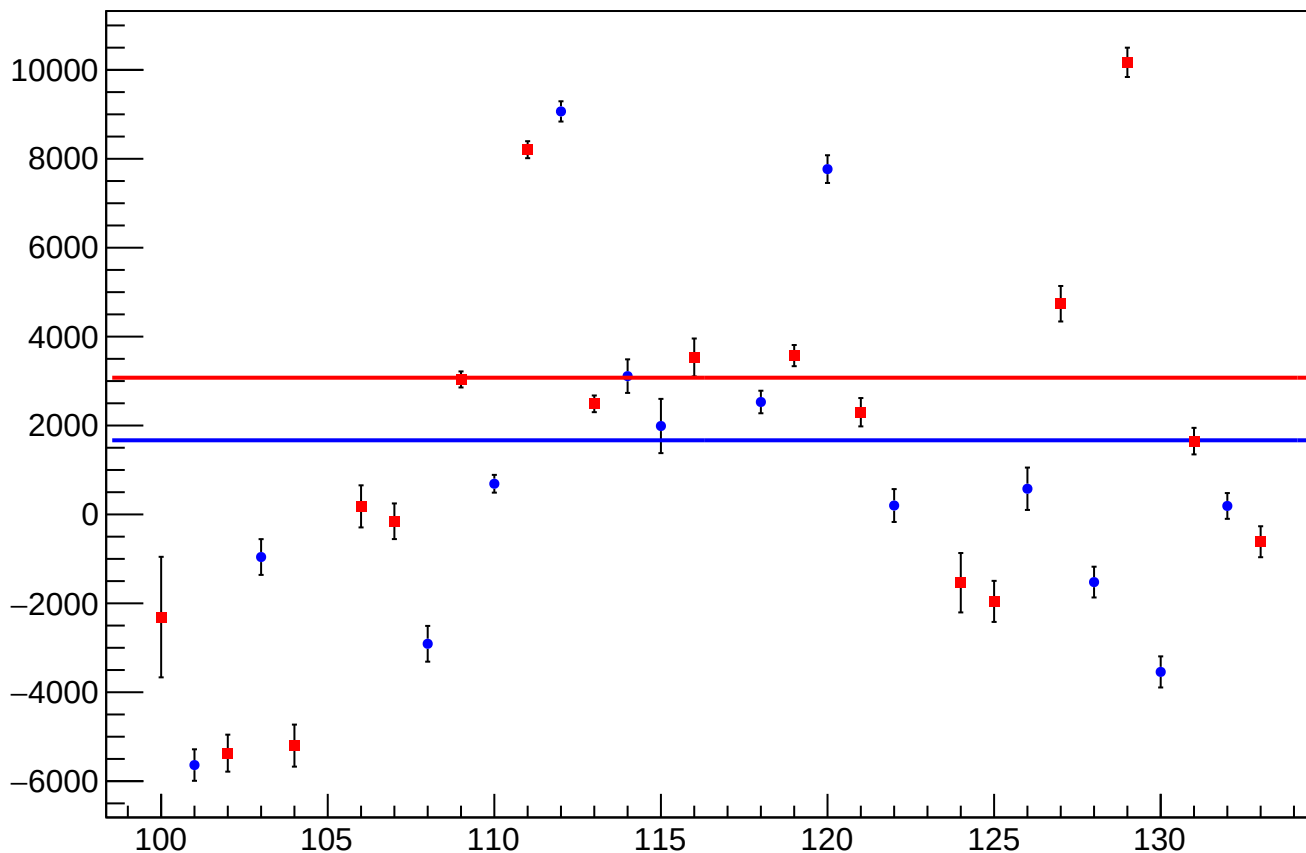
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 172.772+/-0.036  $\chi^2/\text{NDF}$ : 1647310.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i05WS\_mean vs Slug



Right In: 1667.642 $\pm$ 84.432  $\chi^2$ /NDF: 2437.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3075.662 $\pm$ 73.953  $\chi^2$ /NDF: 2360.5/16

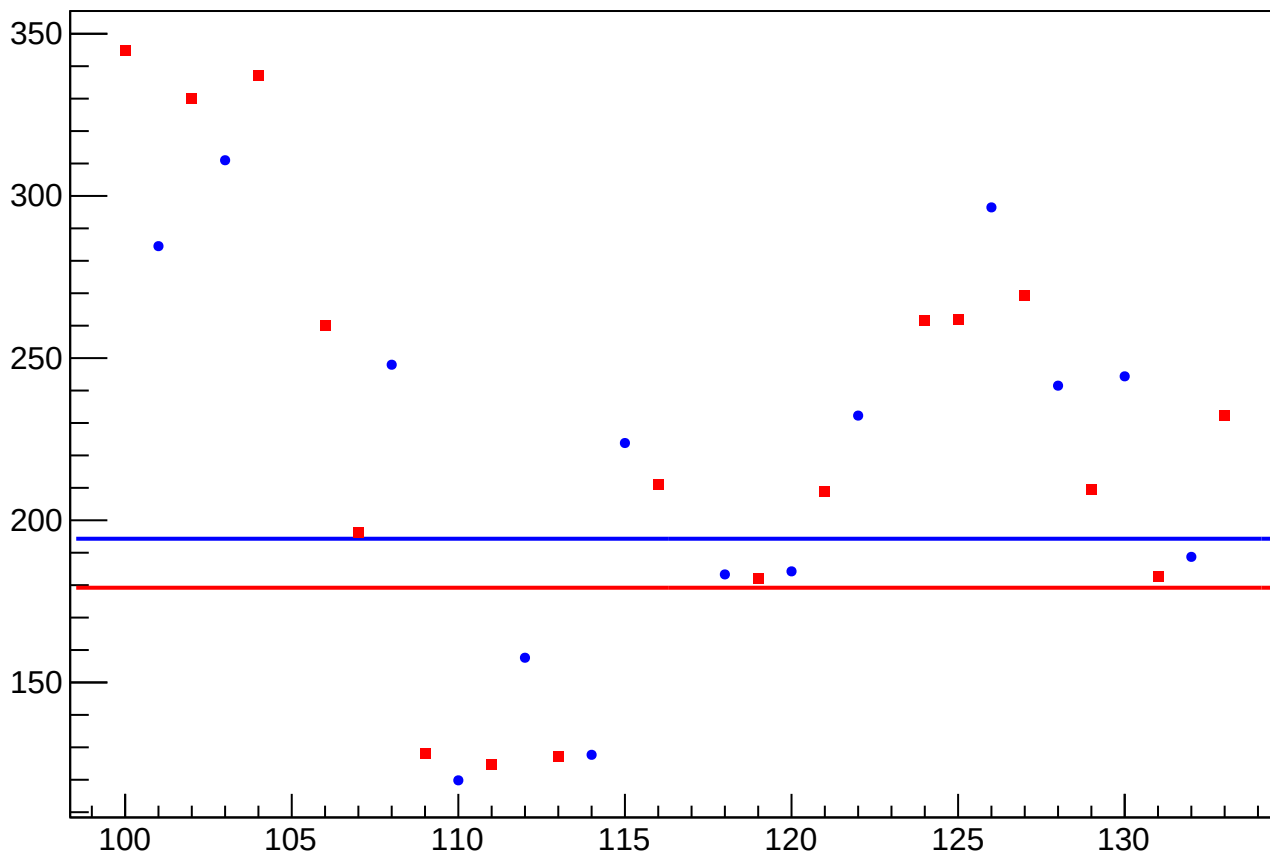
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2464.402 $\pm$ 55.631  $\chi^2$ /NDF: 4955.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i05WS\_rms vs Slug



Right In: 194.311+/-0.060  $\chi^2/\text{NDF}$ : 928051.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 179.207+/-0.052  $\chi^2/\text{NDF}$ : 1344311.1/16

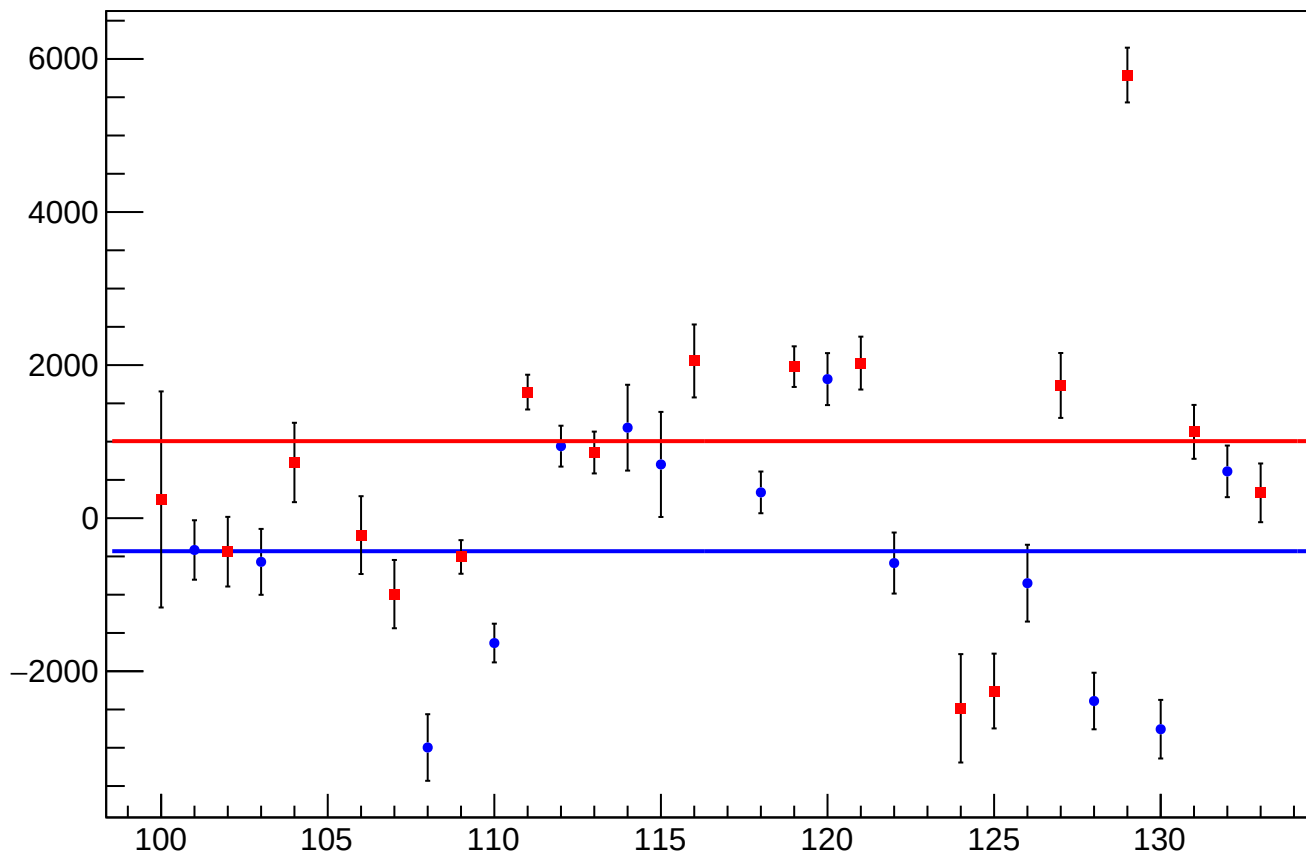
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 185.764+/-0.039  $\chi^2/\text{NDF}$ : 2308581.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i07WS\_mean vs Slug



Right In: -431.652+/-96.409  $\chi^2/\text{NDF}$ : 222.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1006.486+/-86.765  $\chi^2/\text{NDF}$ : 373.2/16

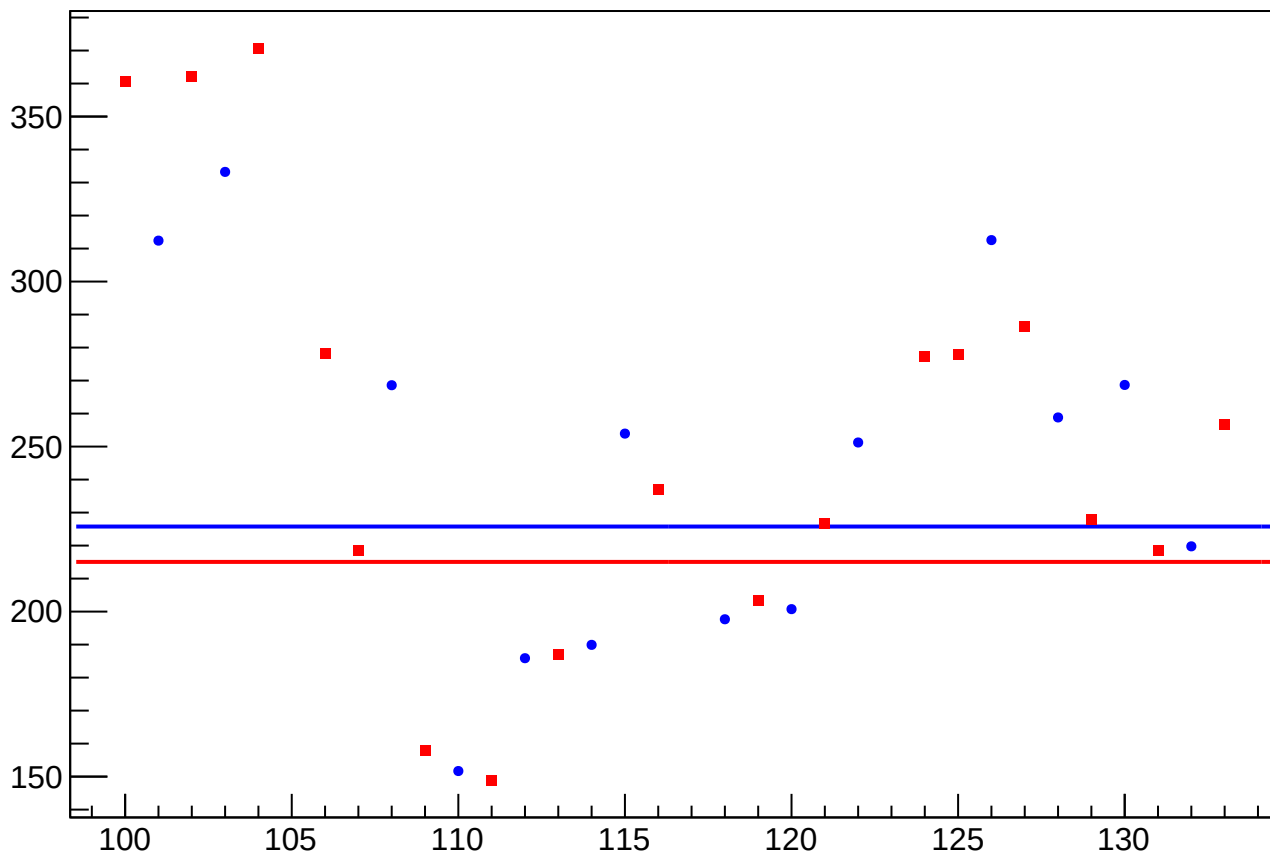
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 362.929+/-64.493  $\chi^2/\text{NDF}$ : 718.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i07WS\_rms vs Slug



Right In:  $225.772 \pm 0.068$   $\chi^2/\text{NDF}$ : 613078.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $215.056 \pm 0.061$   $\chi^2/\text{NDF}$ : 907898.2/16

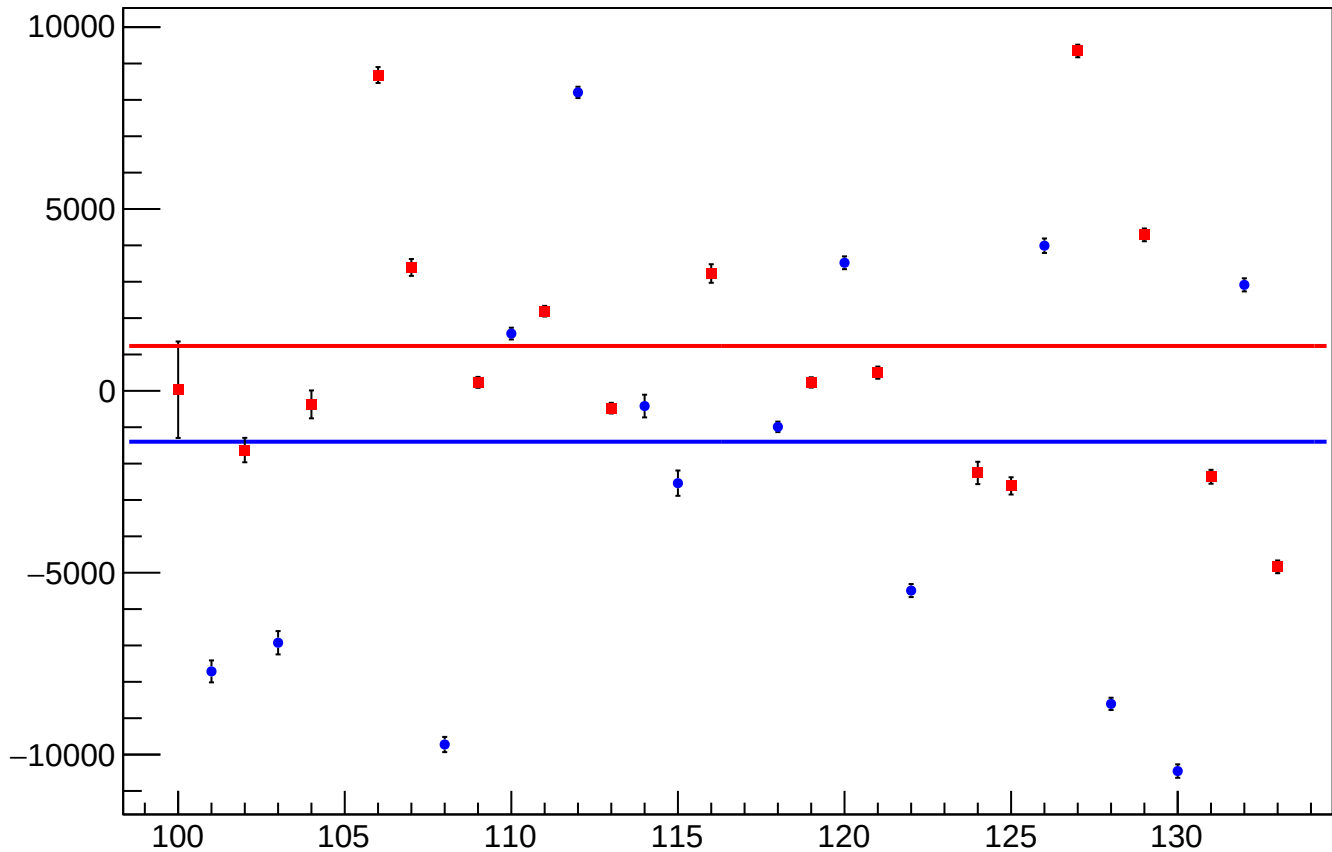
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $219.851 \pm 0.046$   $\chi^2/\text{NDF}$ : 1534627.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i02WS\_mean vs Slug



Right In:  $-1398.285 \pm 51.785$   $\chi^2/\text{NDF}$ : 13310.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1234.268 \pm 47.236$   $\chi^2/\text{NDF}$ : 6128.8/16

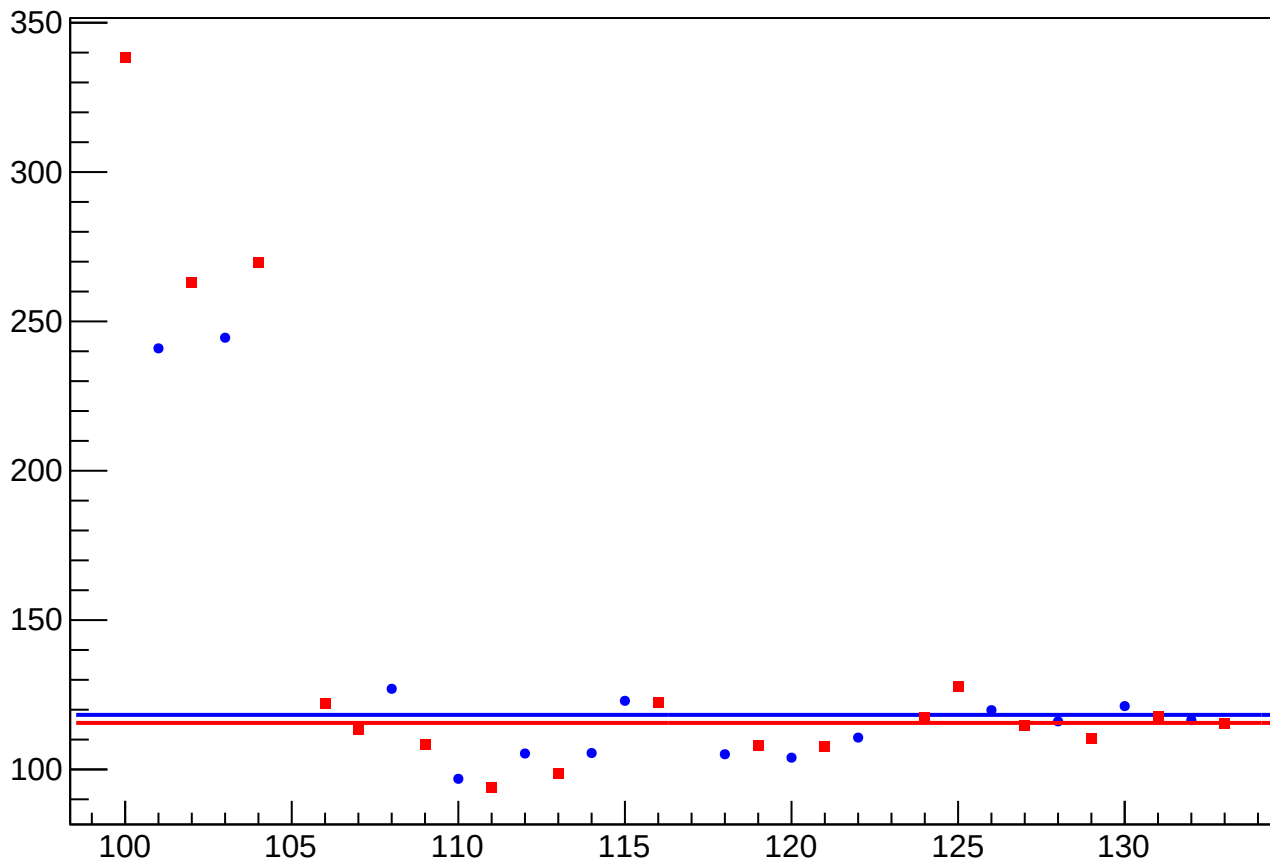
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $38.671 \pm 34.899$   $\chi^2/\text{NDF}$ : 20850.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i02WS\_rms vs Slug



Right In: 118.268 $\pm$ 0.037  $\chi^2$ /NDF: 731617.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 115.577 $\pm$ 0.033  $\chi^2$ /NDF: 862458.2/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

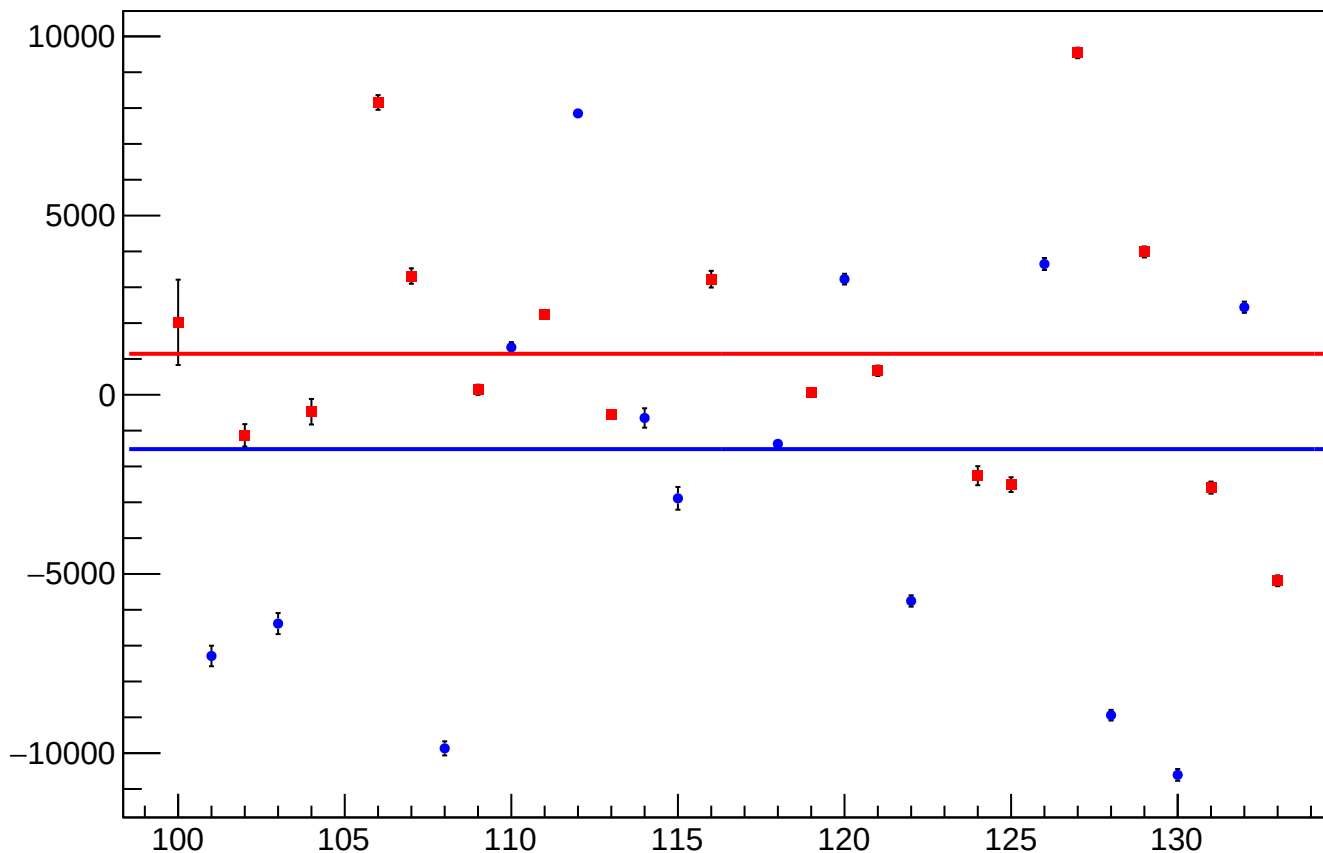
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 116.799 $\pm$ 0.025  $\chi^2$ /NDF: 1597023.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bpm2i01WS\_mean vs Slug



Right In: -1516.495 $\pm$ 45.709  $\chi^2$ /NDF: 16319.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1143.405 $\pm$ 41.794  $\chi^2$ /NDF: 8170.6/16

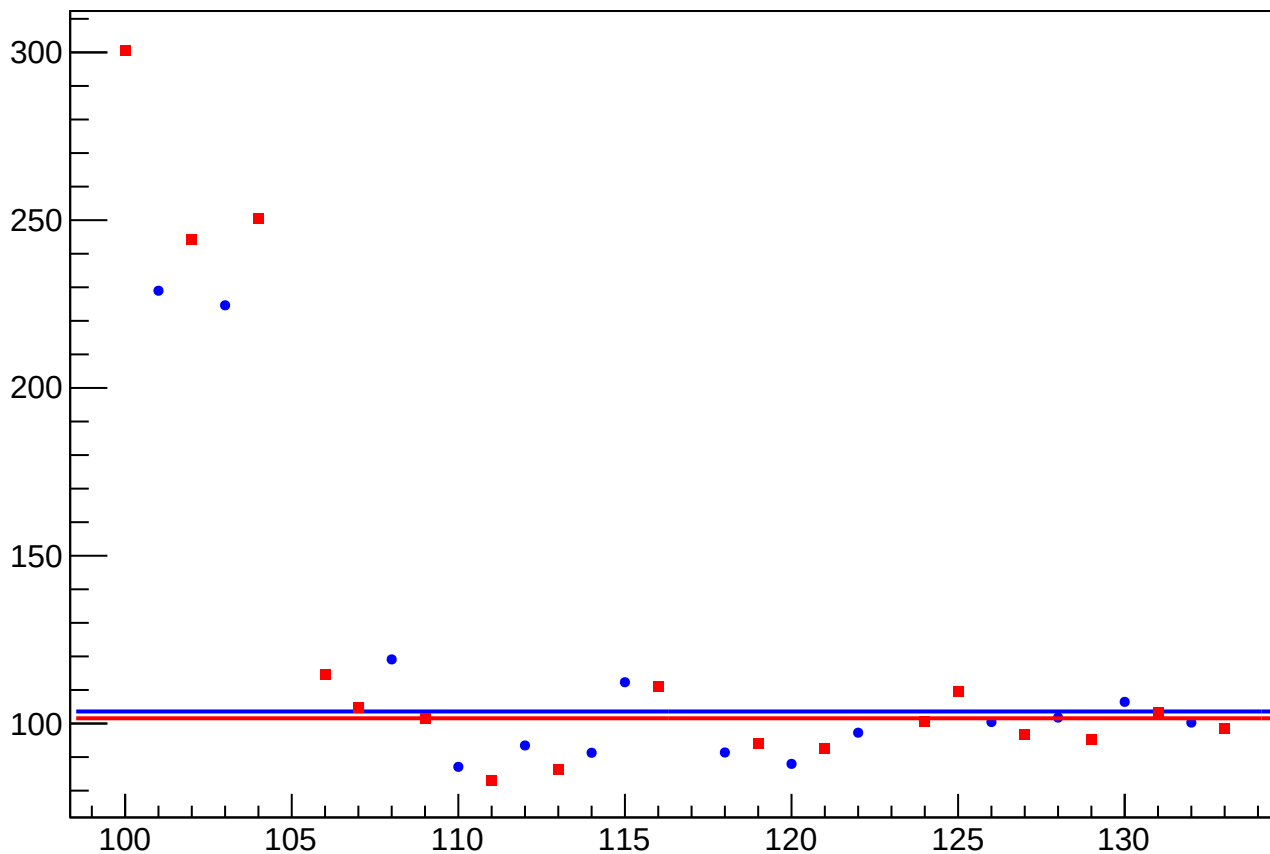
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -67.750 $\pm$ 30.844  $\chi^2$ /NDF: 26334.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm2i01WS\_rms vs Slug



Right In: 103.592+/-0.032  $\chi^2/\text{NDF}$ : 821854.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 101.561+/-0.030  $\chi^2/\text{NDF}$ : 927363.1/16

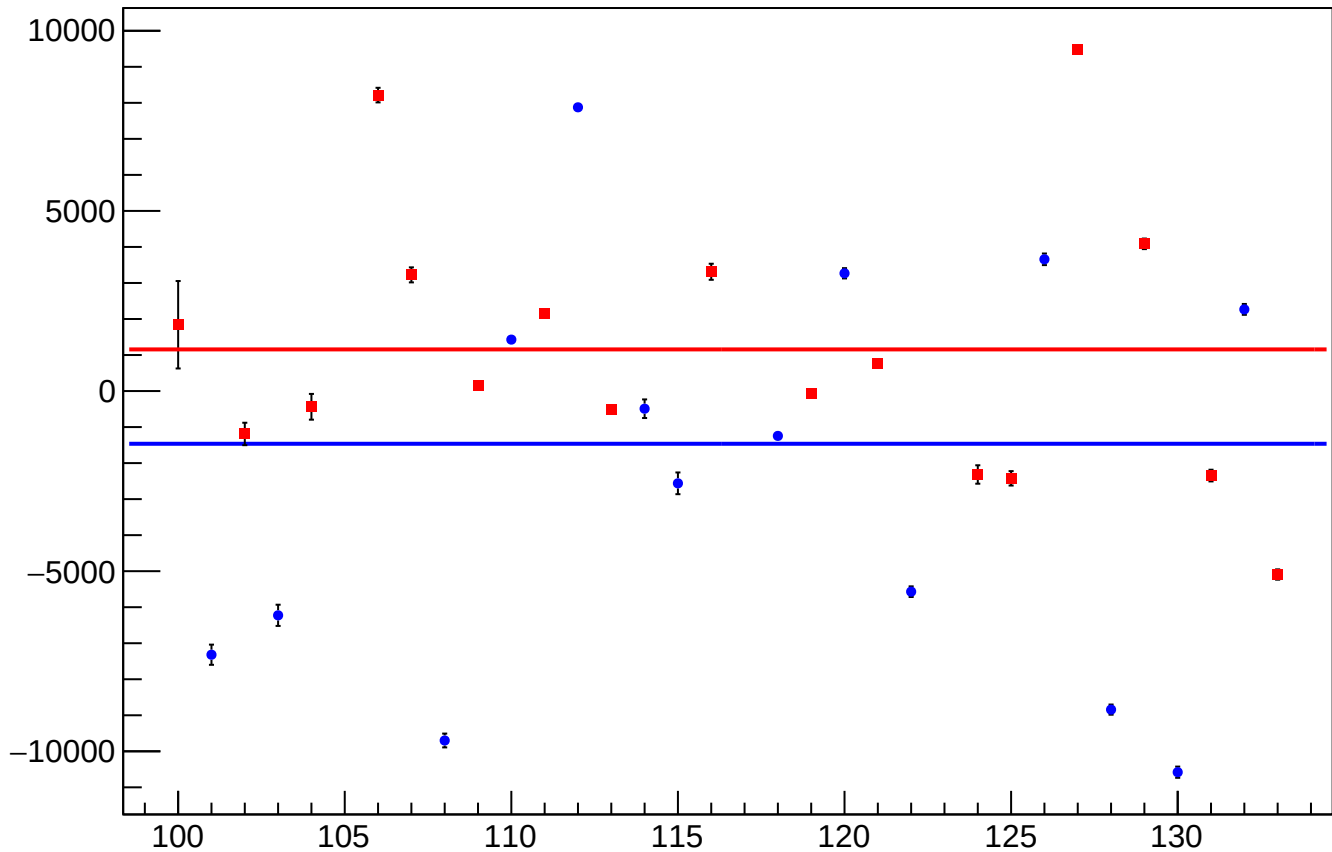
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 102.486+/-0.022  $\chi^2/\text{NDF}$ : 1751368.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm2i02WS\_mean vs Slug



Right In:  $-1463.545 \pm 43.710$   $\chi^2/\text{NDF}$ : 17630.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1155.907 \pm 39.918$   $\chi^2/\text{NDF}$ : 8722.8/16

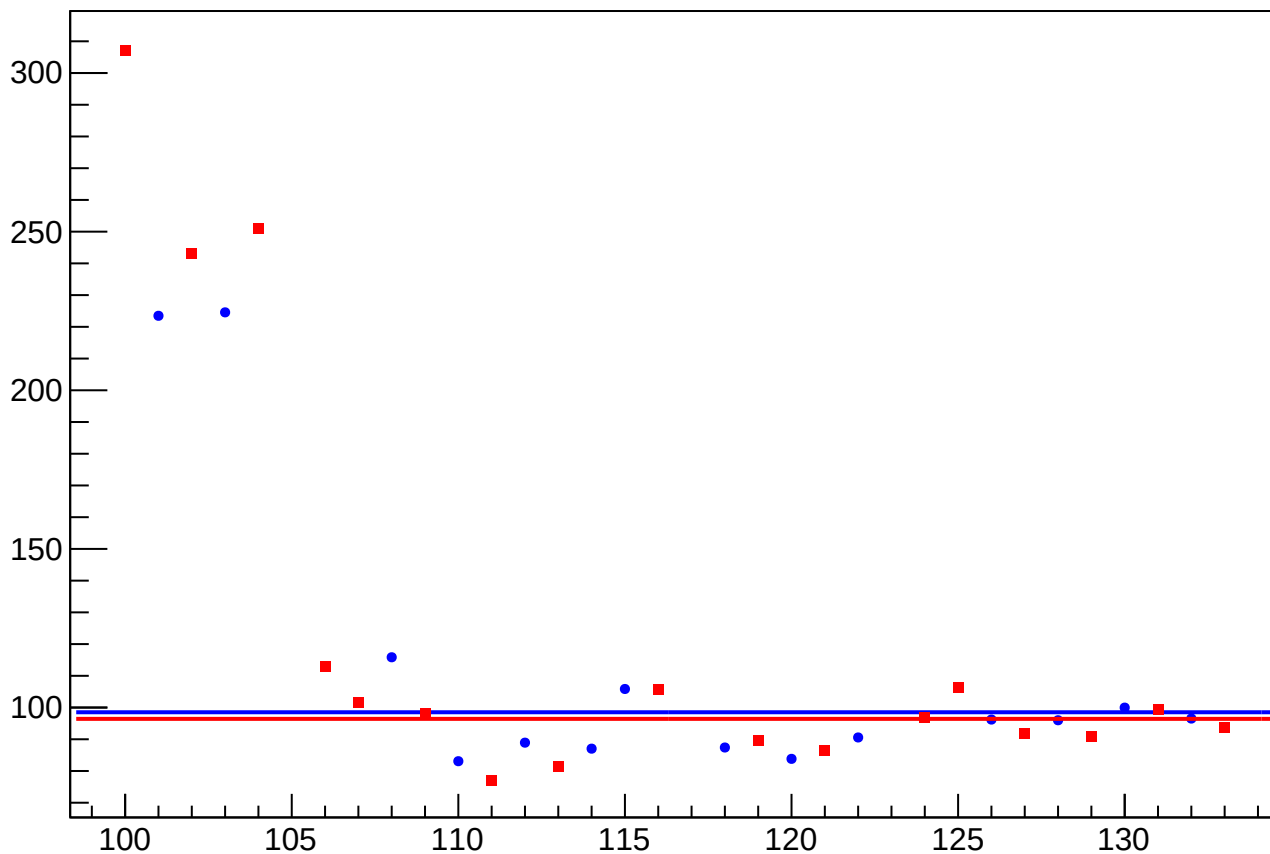
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-35.292 \pm 29.476$   $\chi^2/\text{NDF}$ : 28311.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm2i02WS\_rms vs Slug



Right In: 98.514+/-0.031  $\chi^2/\text{NDF}$ : 866055.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 96.431+/-0.028  $\chi^2/\text{NDF}$ : 1008932.1/16

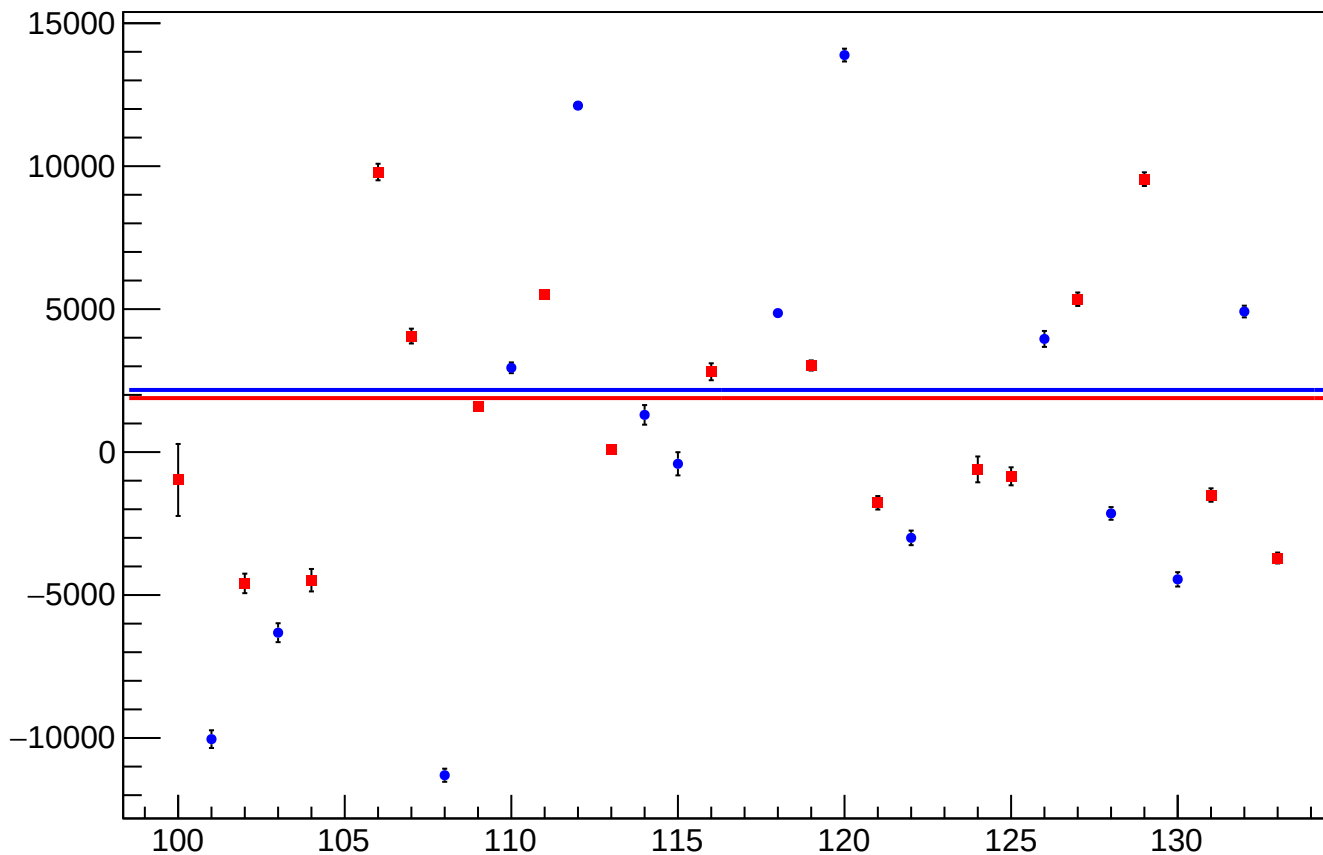
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 97.379+/-0.021  $\chi^2/\text{NDF}$ : 1877463.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01WS\_mean vs Slug



Right In: 2173.352+/-62.514  $\chi^2/\text{NDF}$ : 13624.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1888.239+/-57.261  $\chi^2/\text{NDF}$ : 4729.4/16

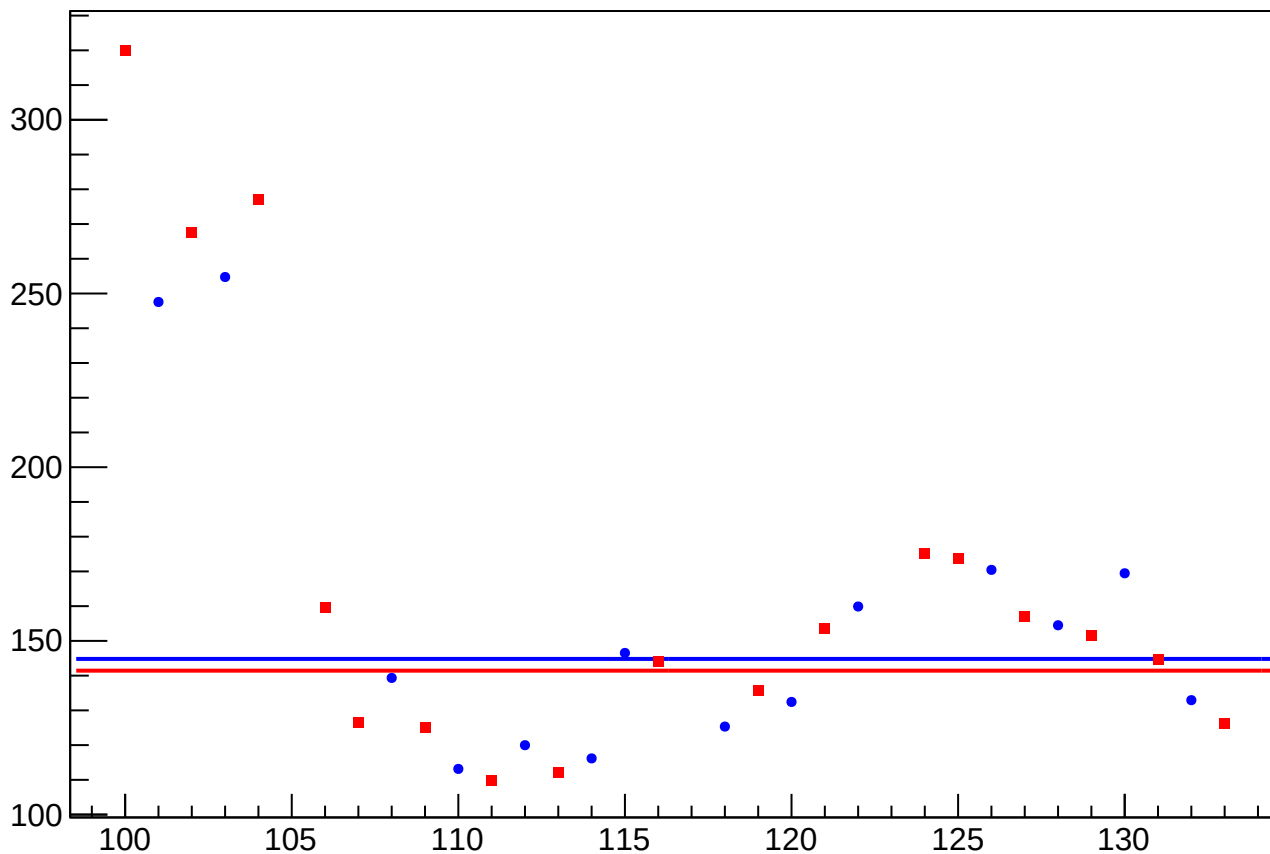
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2018.314+/-42.225  $\chi^2/\text{NDF}$ : 18365.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01WS\_rms vs Slug



Right In: 144.811+/-0.044  $\chi^2/\text{NDF}$ : 637971.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 141.431+/-0.040  $\chi^2/\text{NDF}$ : 780525.3/16

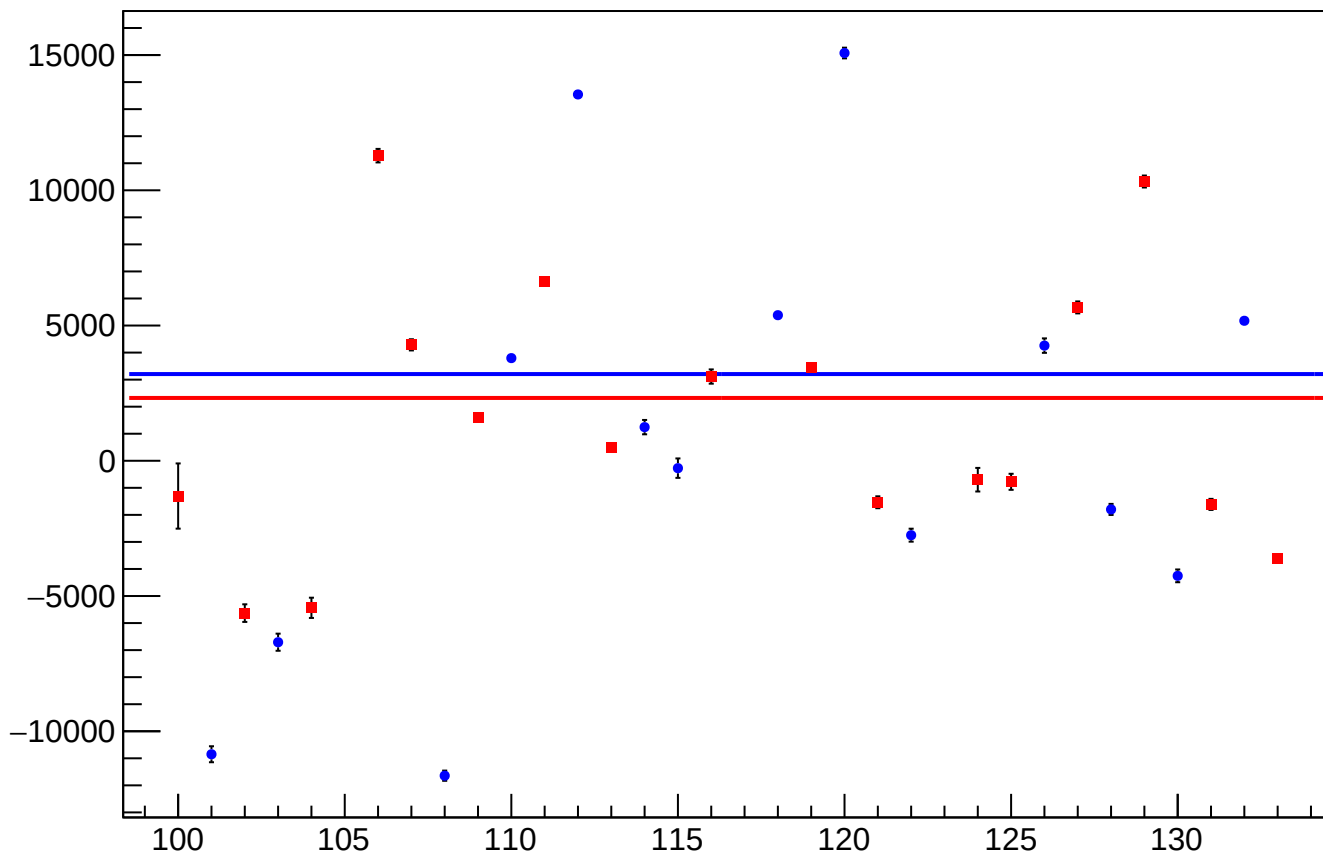
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 142.973+/-0.030  $\chi^2/\text{NDF}$ : 1421675.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01aWS\_mean vs Slug



Right In: 3205.717+/-52.985  $\chi^2/\text{NDF}$ : 21696.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2322.865+/-47.642  $\chi^2/\text{NDF}$ : 7741.8/16

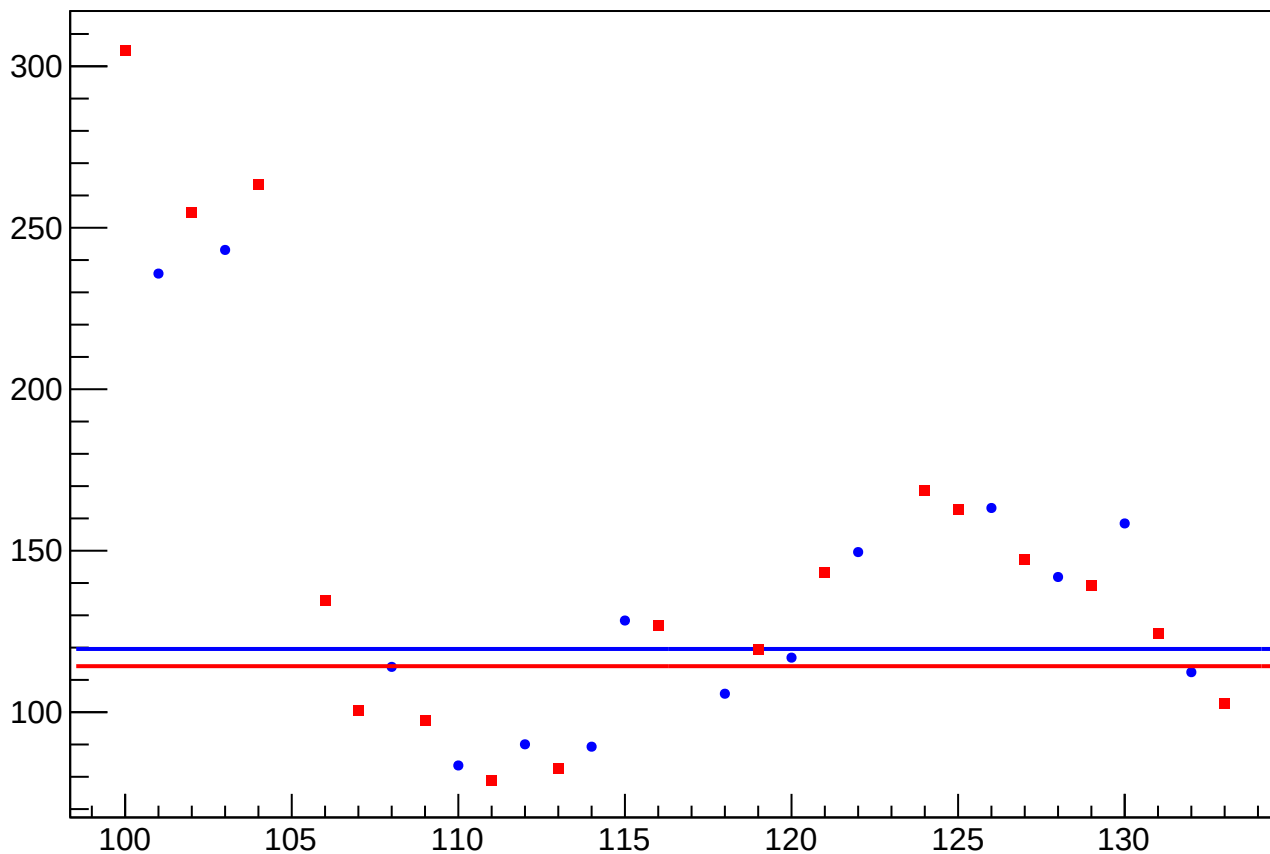
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2717.551+/-35.427  $\chi^2/\text{NDF}$ : 29591.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01aWS\_rms vs Slug



Right In: 119.579+/-0.037  $\chi^2/\text{NDF}$ : 1056133.7/13

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: 114.250+/-0.034  $\chi^2/\text{NDF}$ : 1301704.8/16

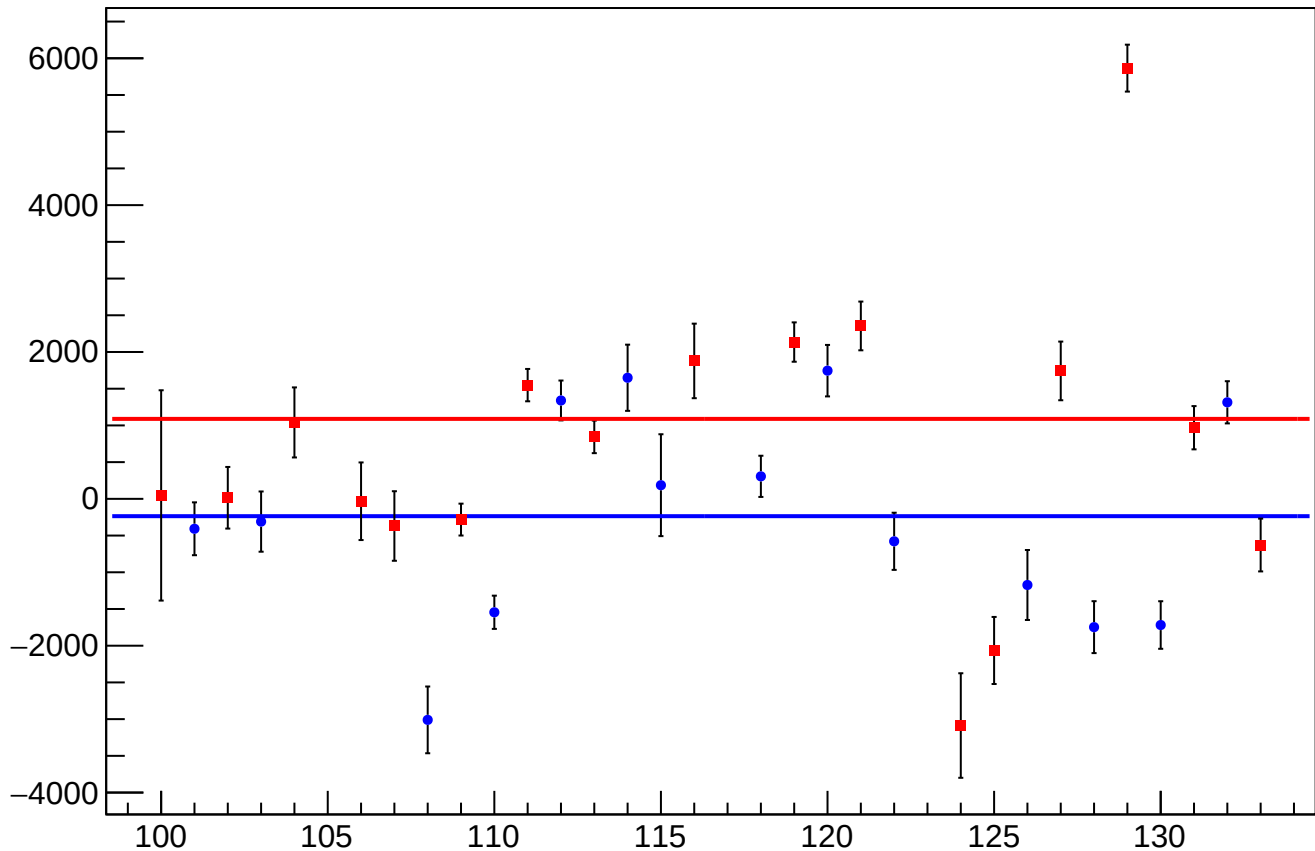
All: 116.632+/-0.025  $\chi^2/\text{NDF}$ : 2369026.3/30

- 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\_bpm0l01WS\_mean vs Slug



Right In: -236.028+/-91.249  $\chi^2/\text{NDF}$ : 231.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1088.963+/-81.729  $\chi^2/\text{NDF}$ : 430.0/16

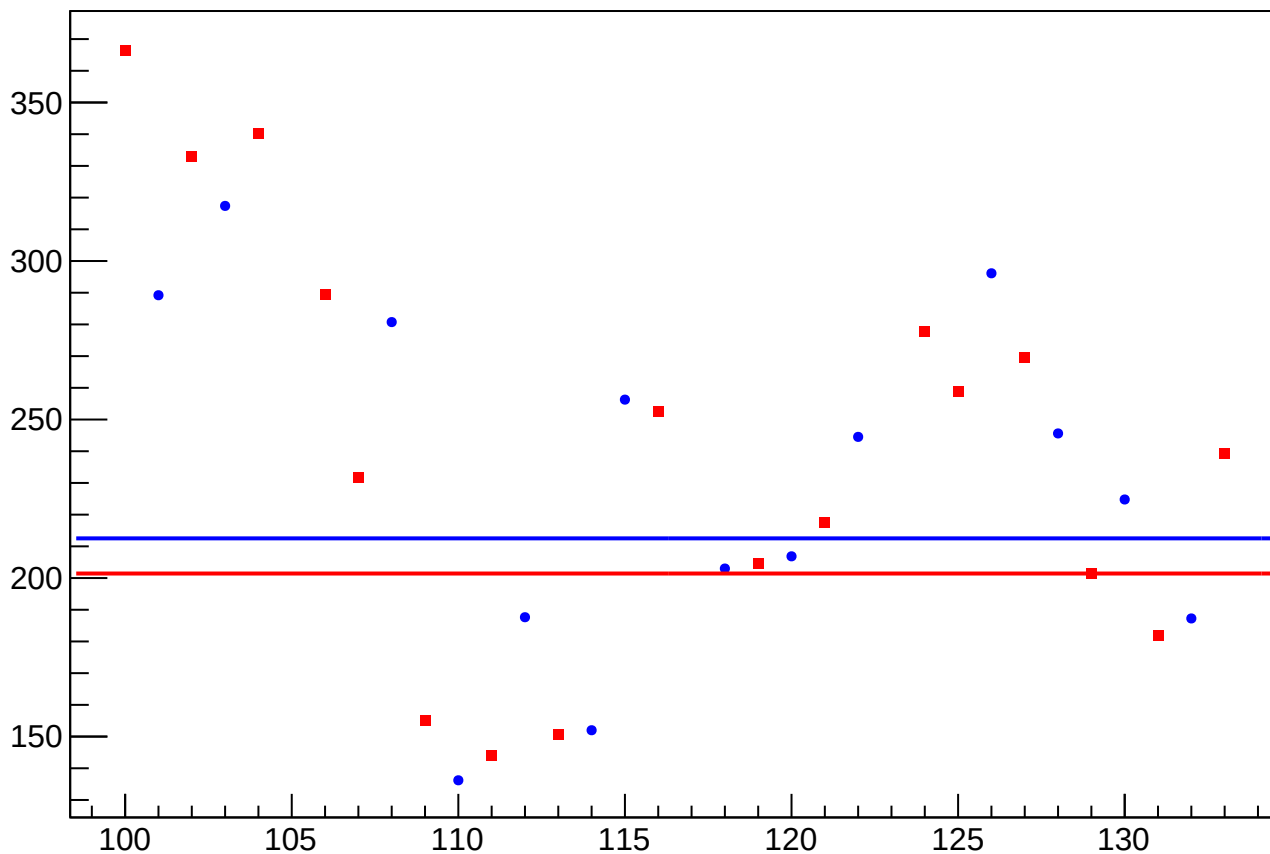
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 499.164+/-60.880  $\chi^2/\text{NDF}$ : 778.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l01WS\_rms vs Slug



Right In: 212.517+/-0.065  $\chi^2/\text{NDF}$ : 668587.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 201.429+/-0.058  $\chi^2/\text{NDF}$ : 955813.0/16

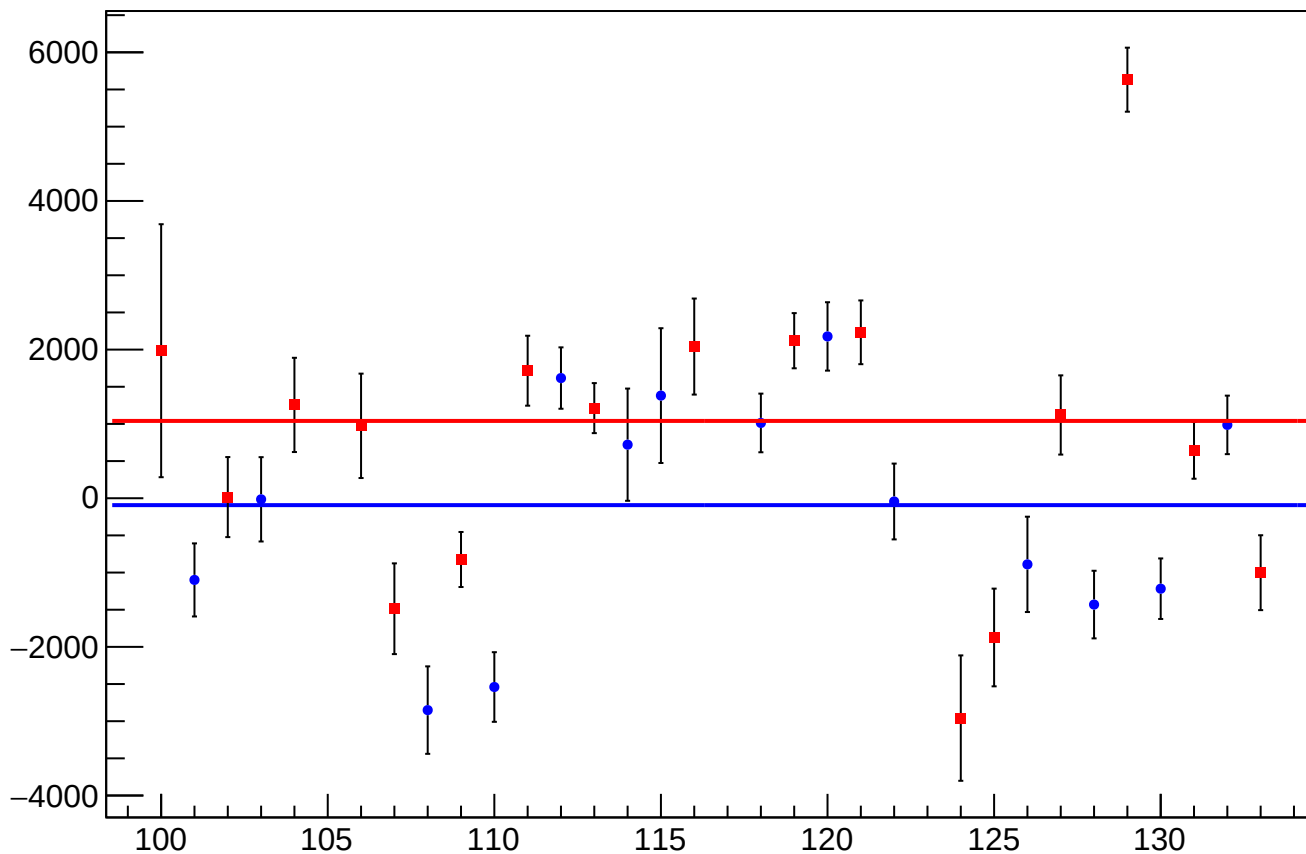
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 206.365+/-0.043  $\chi^2/\text{NDF}$ : 1640788.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l02WS\_mean vs Slug



Right In: -92.758+/-131.019  $\chi^2/\text{NDF}$ : 131.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1040.242+/-119.395  $\chi^2/\text{NDF}$ : 240.7/16

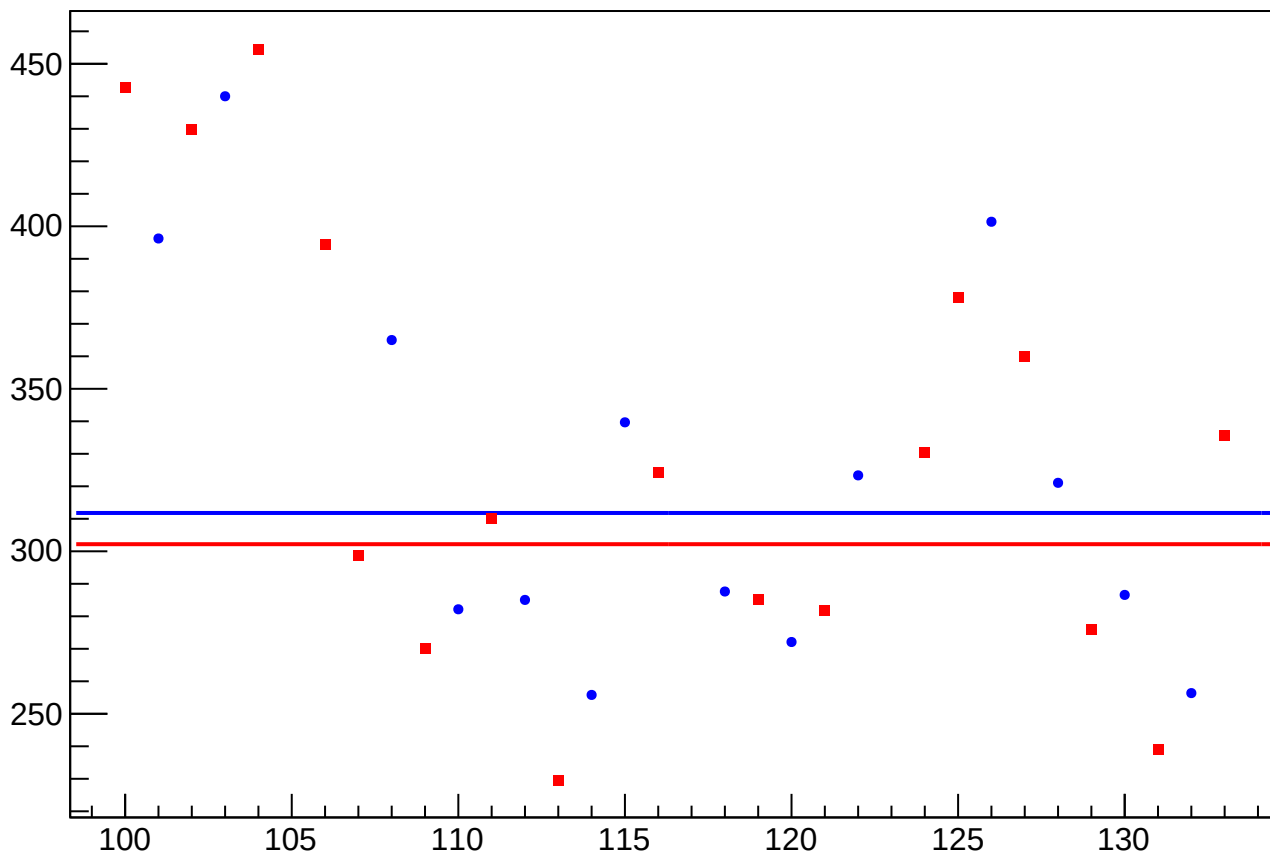
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 526.224+/-88.249  $\chi^2/\text{NDF}$ : 413.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l02WS\_rms vs Slug



Right In: 311.796+/-0.093  $\chi^2/\text{NDF}$ : 317406.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 302.188+/-0.084  $\chi^2/\text{NDF}$ : 519161.2/16

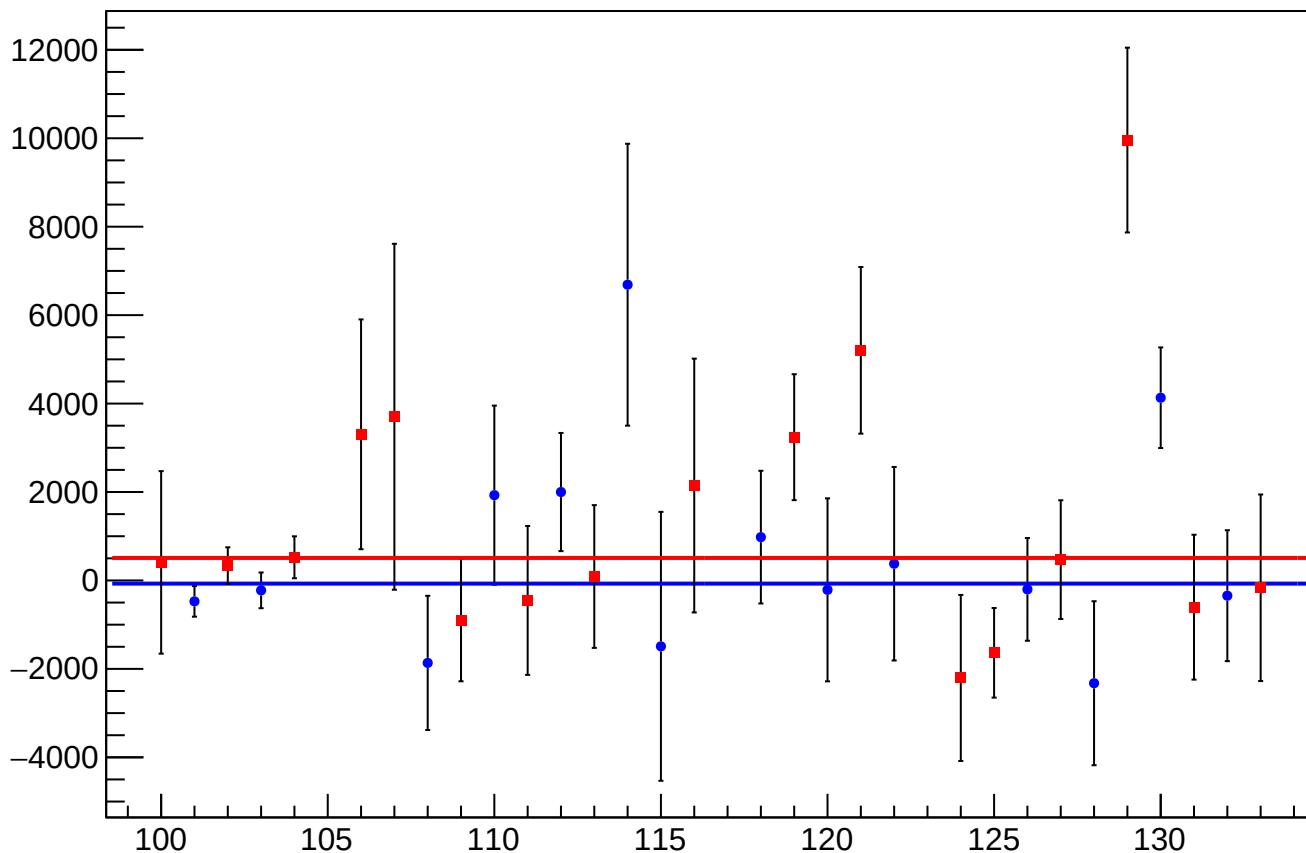
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 306.547+/-0.062  $\chi^2/\text{NDF}$ : 842444.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l03WS\_mean vs Slug



Right In:  $-71.565 \pm 228.970$   $\chi^2/\text{NDF}$ : 26.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $509.270 \pm 254.071$   $\chi^2/\text{NDF}$ : 41.2/16

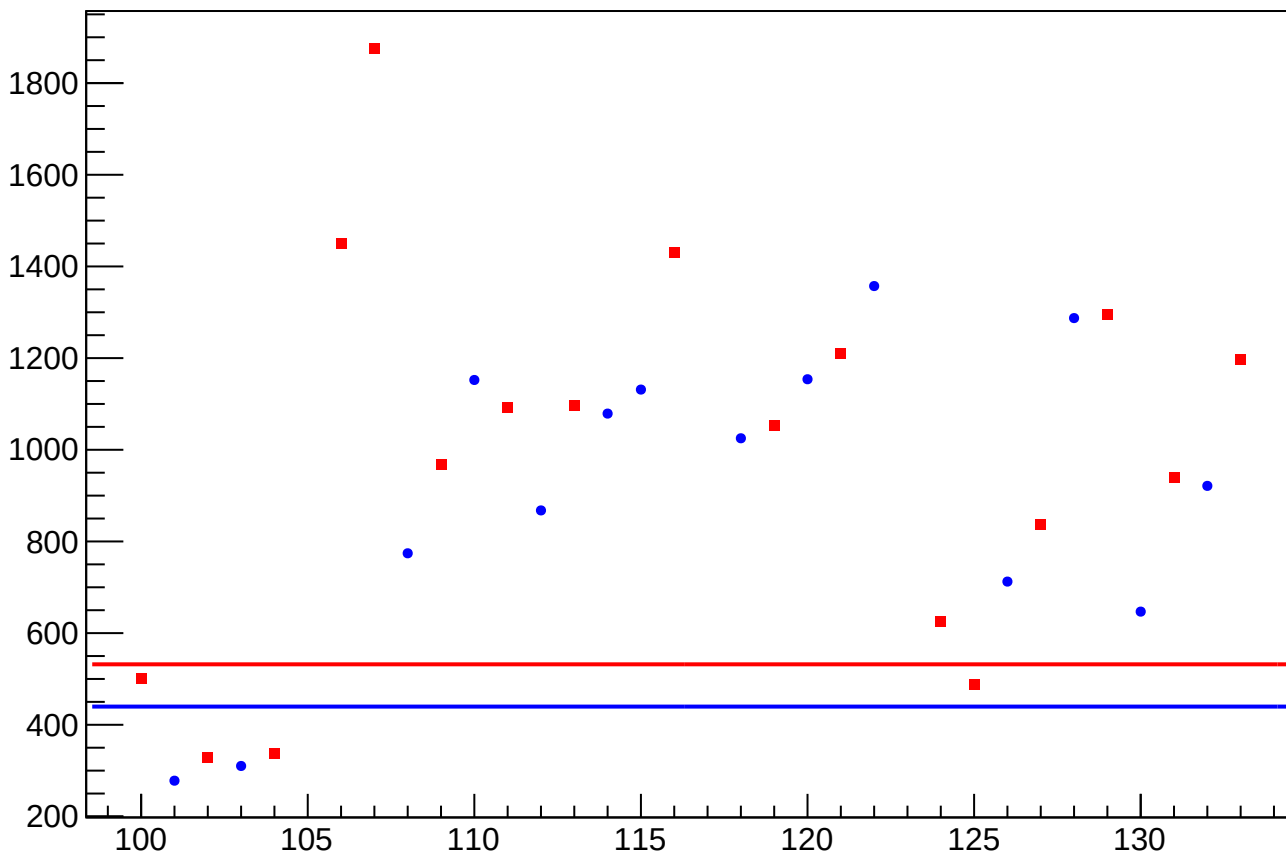
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $188.751 \pm 170.090$   $\chi^2/\text{NDF}$ : 70.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l03WS\_rms vs Slug



Right In: 439.714+/-0.162  $\chi^2/\text{NDF}$ : 3076836.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 531.931+/-0.180  $\chi^2/\text{NDF}$ : 3384349.9/16

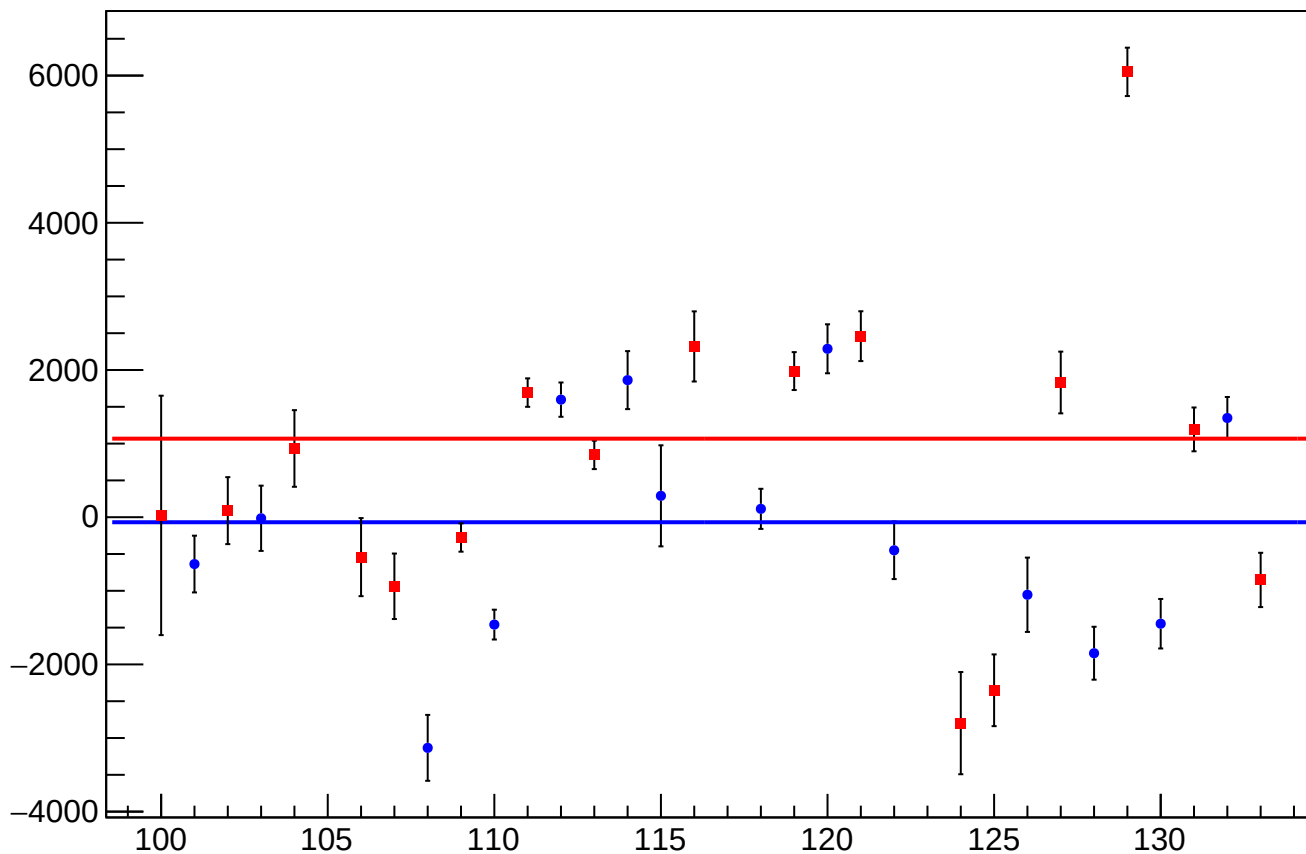
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 481.043+/-0.120  $\chi^2/\text{NDF}$ : 6606577.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l04WS\_mean vs Slug



Right In: -68.496+/-87.715  $\chi^2$ /NDF: 292.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1067.225+/-77.590  $\chi^2$ /NDF: 472.2/16

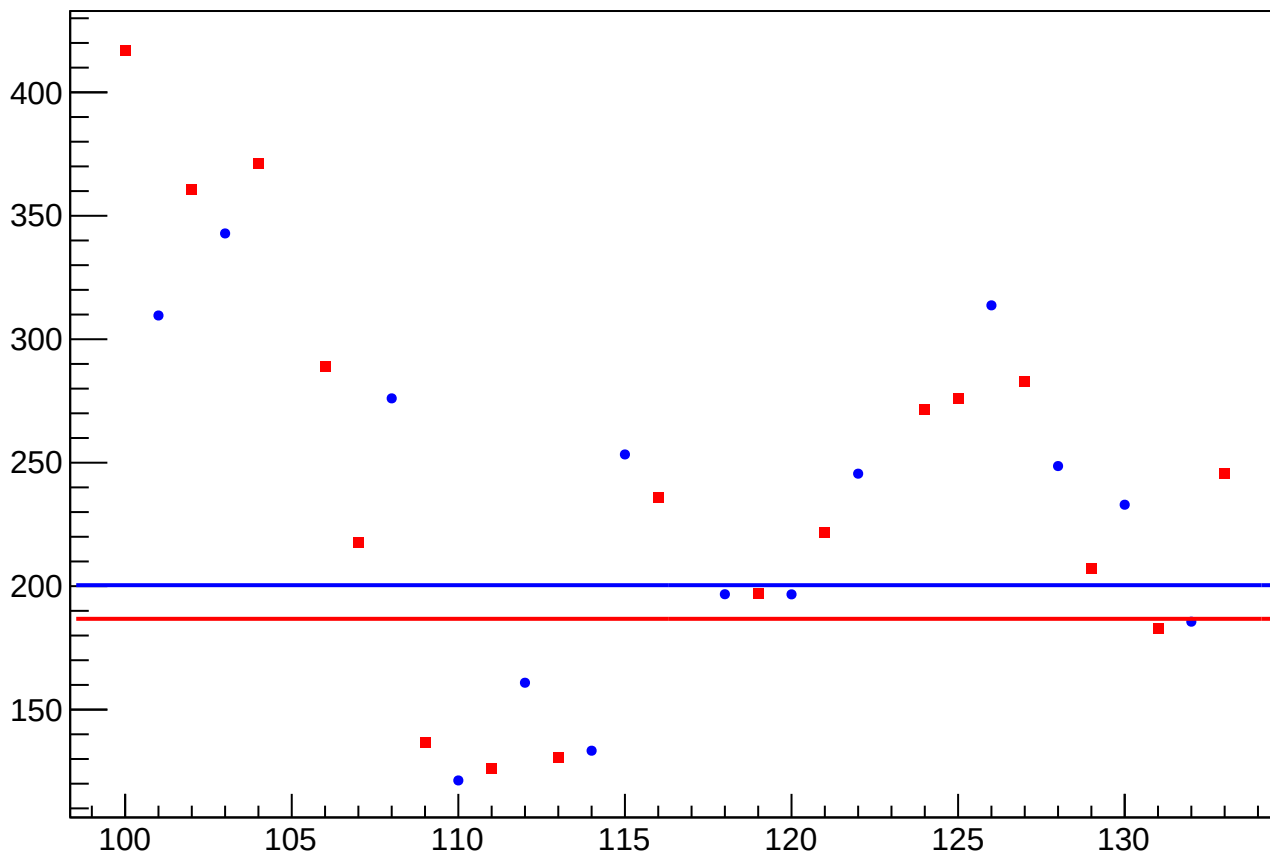
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 568.669+/-58.116  $\chi^2$ /NDF: 859.1/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l04WS\_rms vs Slug



Right In: 200.392+/-0.062  $\chi^2/\text{NDF}$ : 1044440.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 186.769+/-0.055  $\chi^2/\text{NDF}$ : 1476573.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

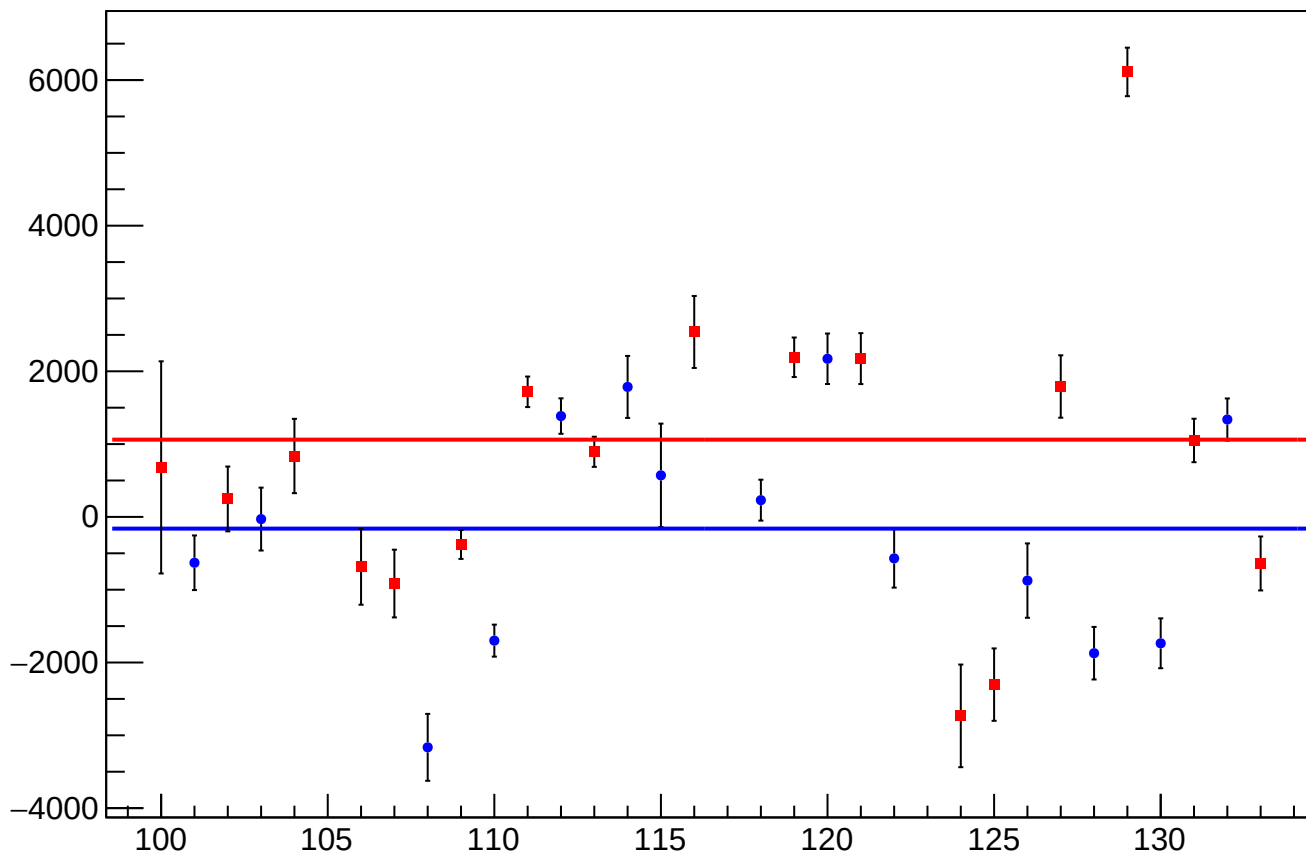
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 192.749+/-0.041  $\chi^2/\text{NDF}$ : 2548077.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0l05WS\_mean vs Slug



Right In: -160.983+/-90.744  $\chi^2/\text{NDF}$ : 276.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1060.976+/-80.555  $\chi^2/\text{NDF}$ : 461.2/16

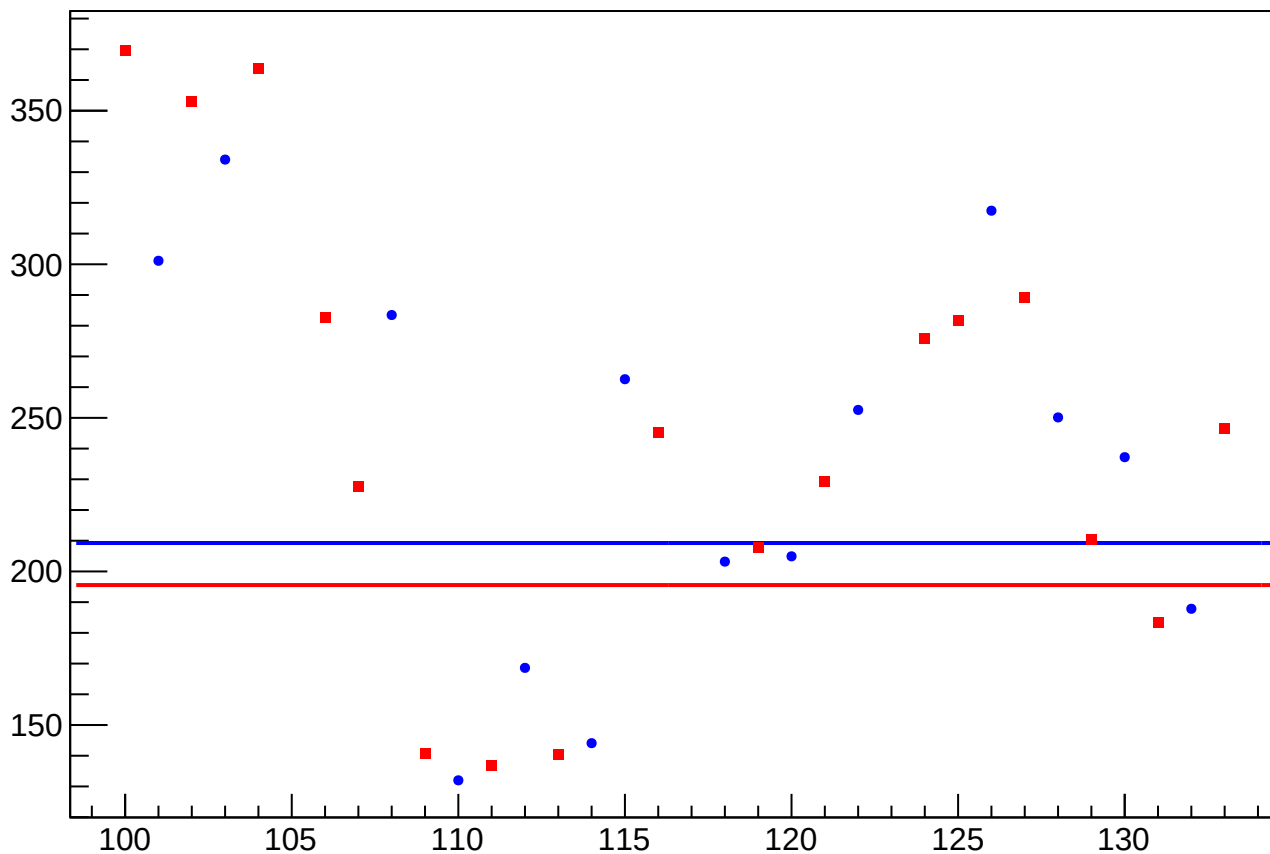
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 522.418+/-60.243  $\chi^2/\text{NDF}$ : 839.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l05WS\_rms vs Slug



Right In: 209.259 $\pm$ 0.064  $\chi^2$ /NDF: 864382.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 195.567 $\pm$ 0.057  $\chi^2$ /NDF: 1282338.4/16

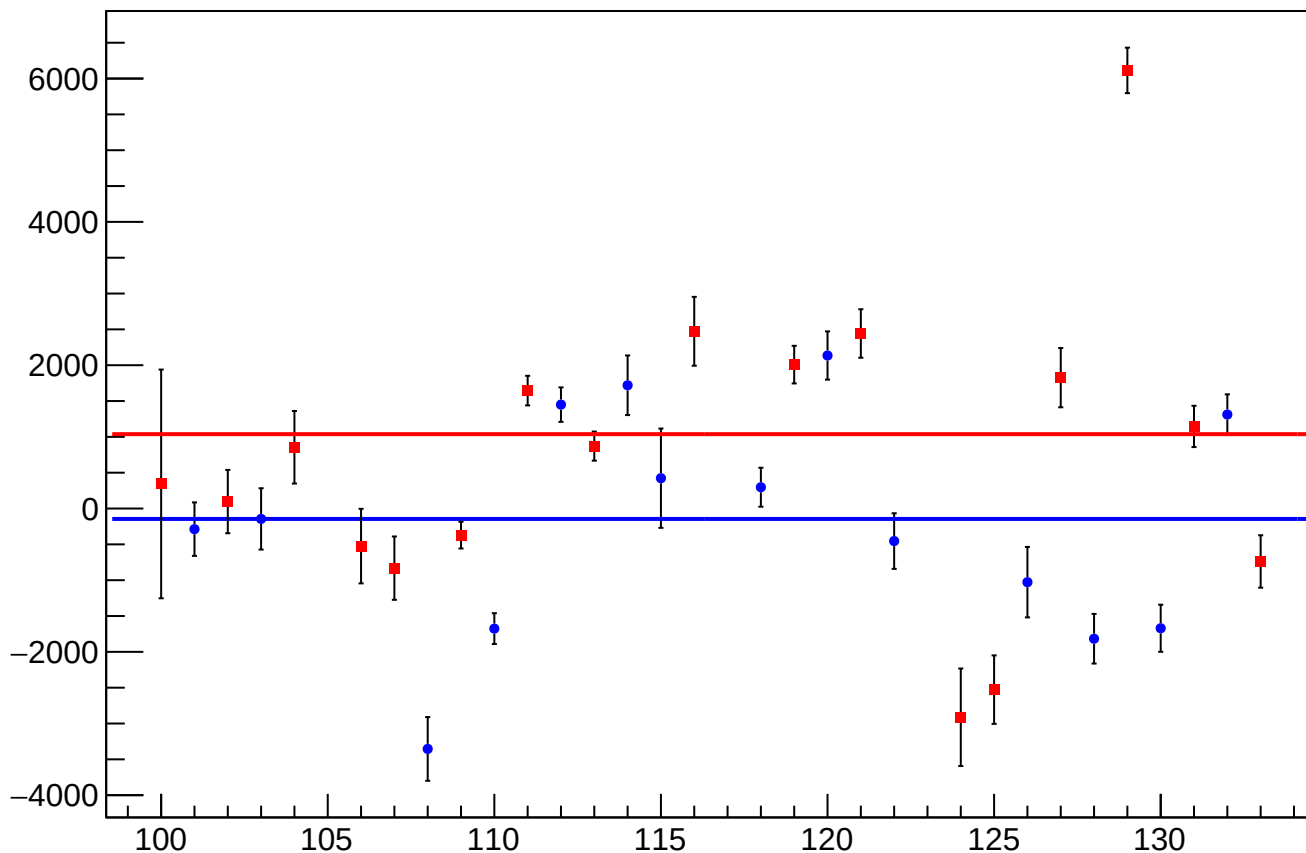
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 201.602 $\pm$ 0.043  $\chi^2$ /NDF: 2172184.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l06WS\_mean vs Slug



Right In:  $-145.127 \pm 88.467$   $\chi^2/\text{NDF}$ : 291.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1037.692 \pm 78.058$   $\chi^2/\text{NDF}$ : 510.9/16

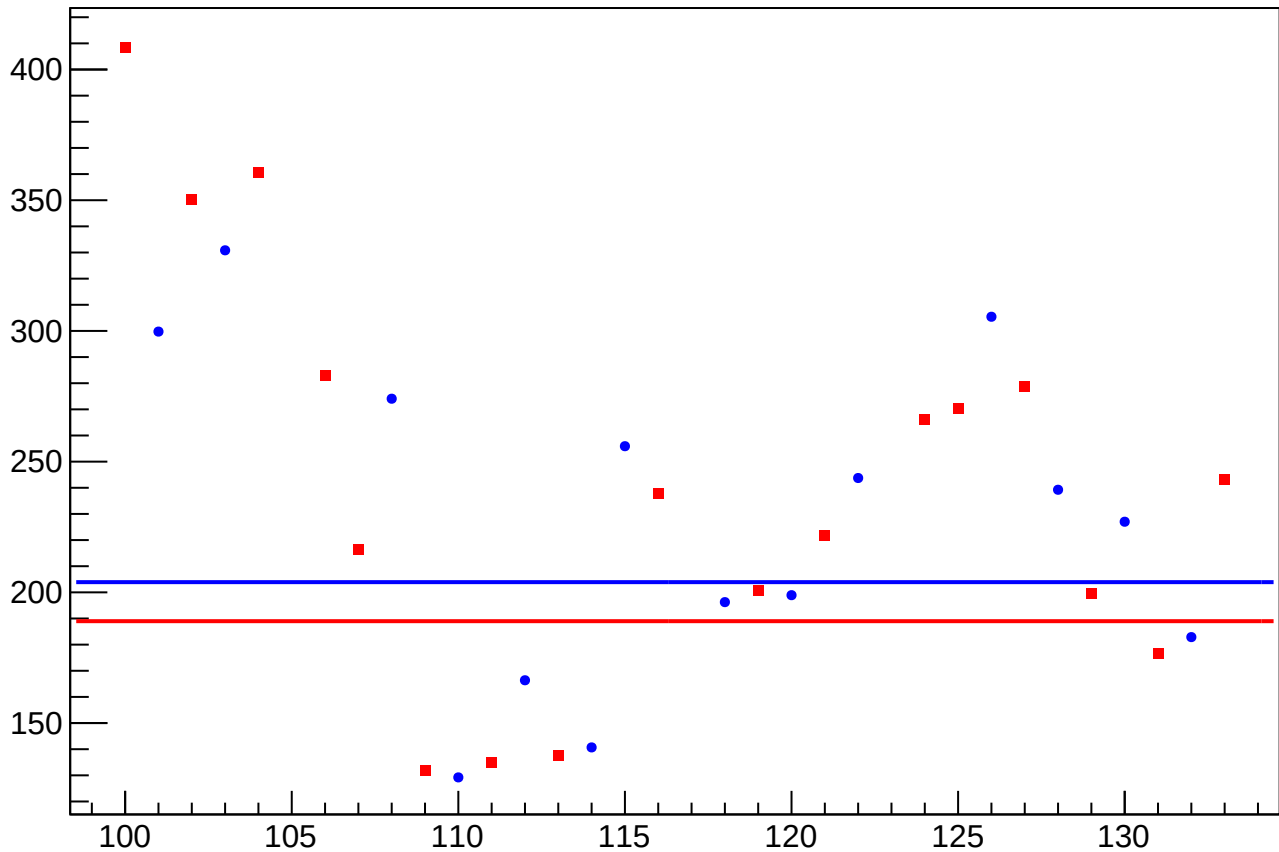
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $519.930 \pm 58.531$   $\chi^2/\text{NDF}$ : 903.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l06WS\_rms vs Slug



Right In: 203.904 $\pm$ 0.063  $\chi^2$ /NDF: 854706.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 188.973 $\pm$ 0.055  $\chi^2$ /NDF: 1330625.8/16

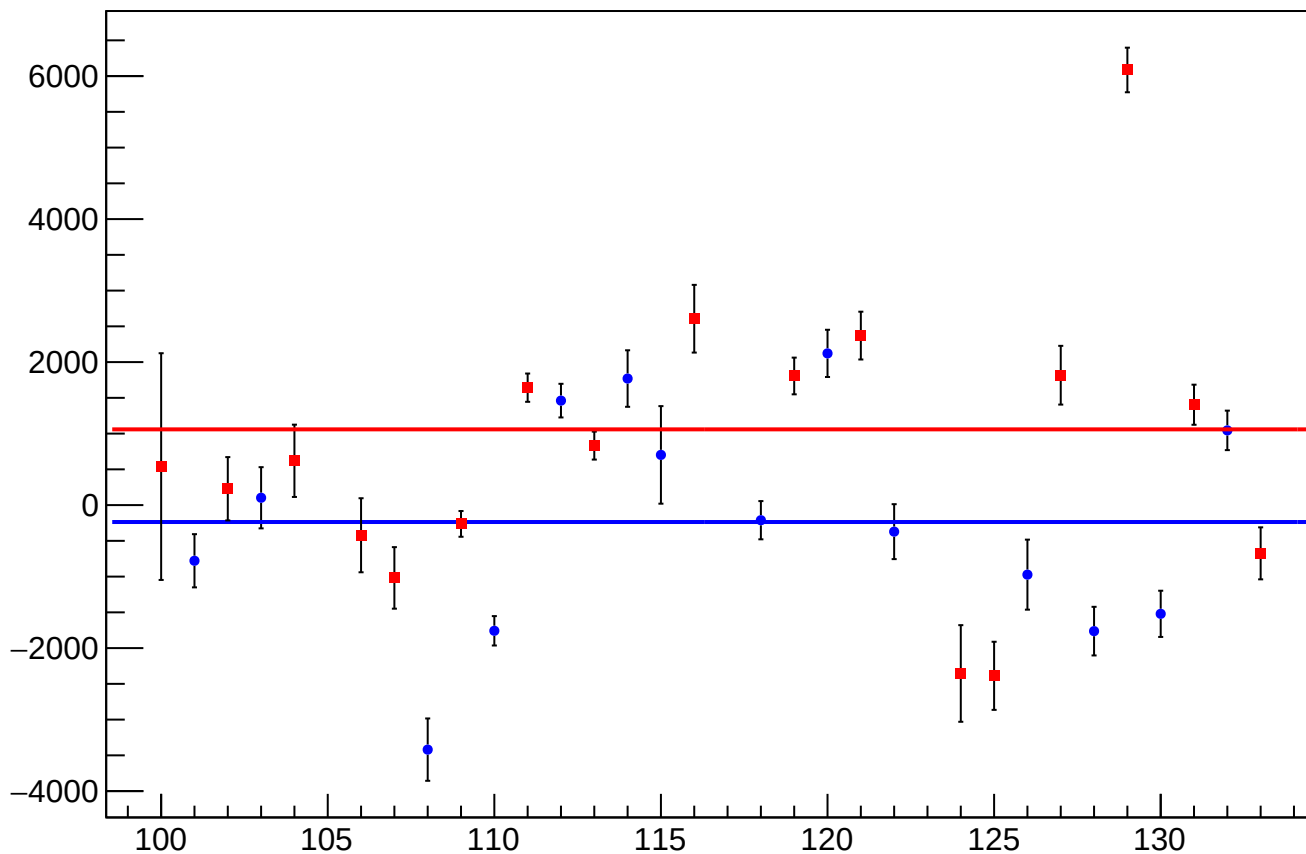
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 195.508 $\pm$ 0.041  $\chi^2$ /NDF: 2217364.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l07WS\_mean vs Slug



Right In: -236.524+/-86.490  $\chi^2/\text{NDF}$ : 301.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1059.210+/-76.072  $\chi^2/\text{NDF}$ : 499.6/16

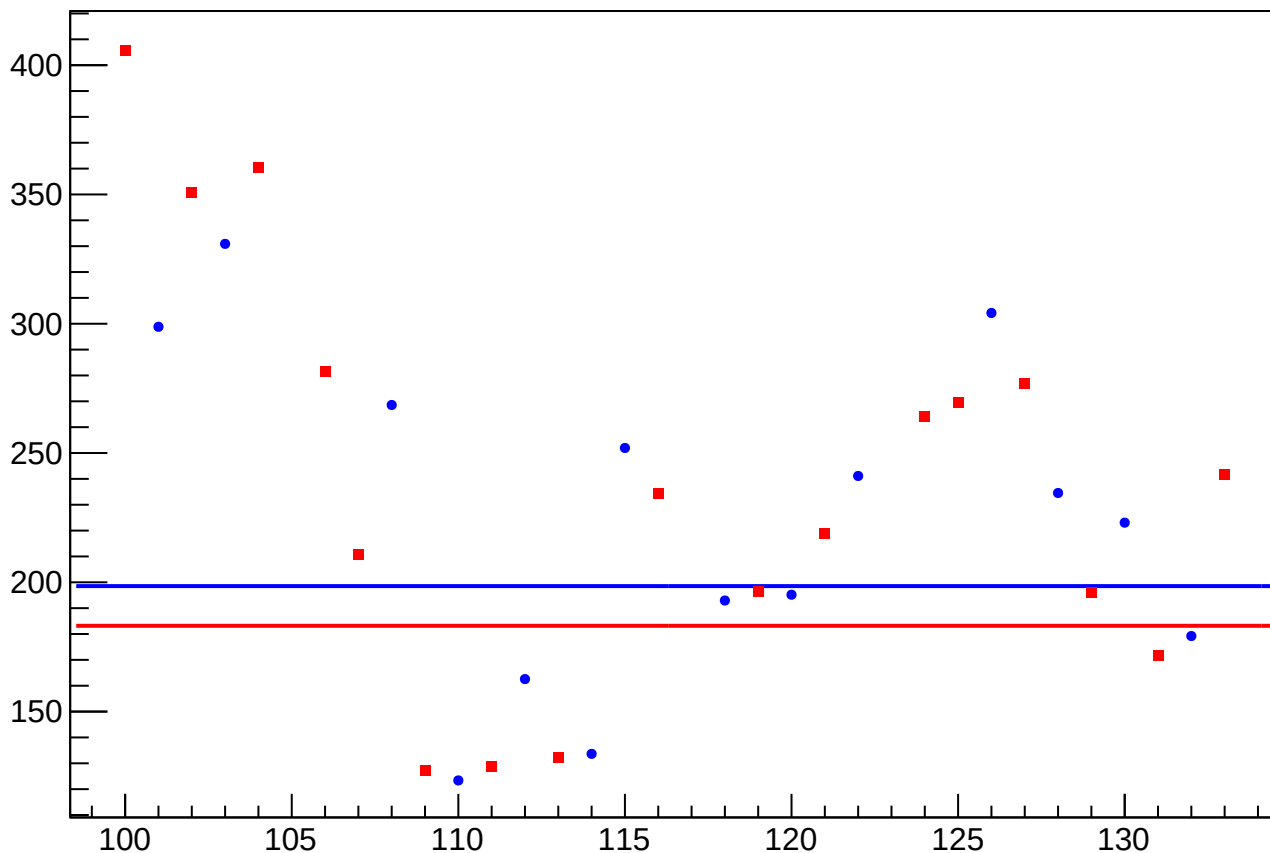
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 494.044+/-57.121  $\chi^2/\text{NDF}$ : 927.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l07WS\_rms vs Slug



Right In: 198.529+/-0.061  $\chi^2/\text{NDF}$ : 930981.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 183.181+/-0.054  $\chi^2/\text{NDF}$ : 1441112.5/16

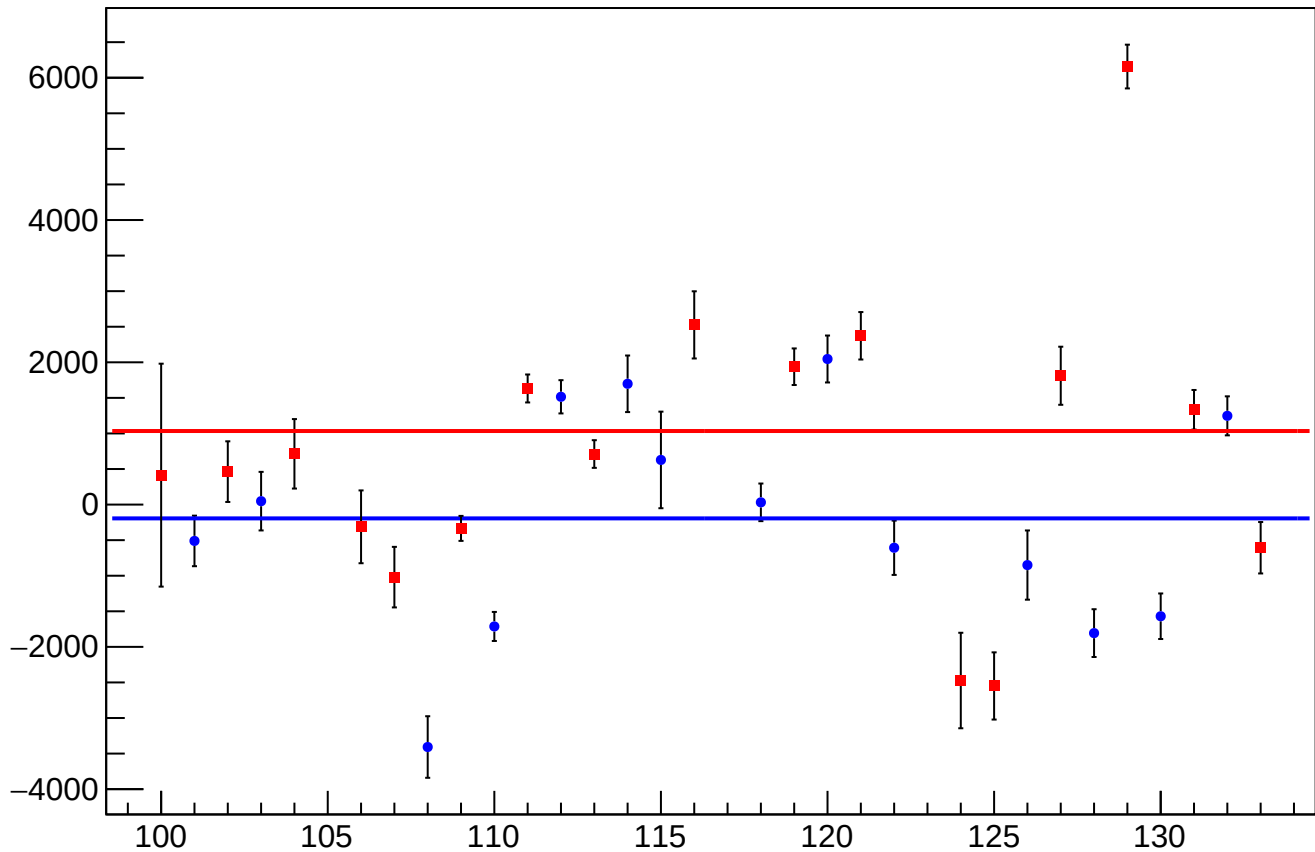
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 189.875+/-0.040  $\chi^2/\text{NDF}$ : 2407600.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l08WS\_mean vs Slug



Right In:  $-194.033 \pm 85.595$   $\chi^2/\text{NDF}$ : 308.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1034.146 \pm 75.234$   $\chi^2/\text{NDF}$ : 531.6/16

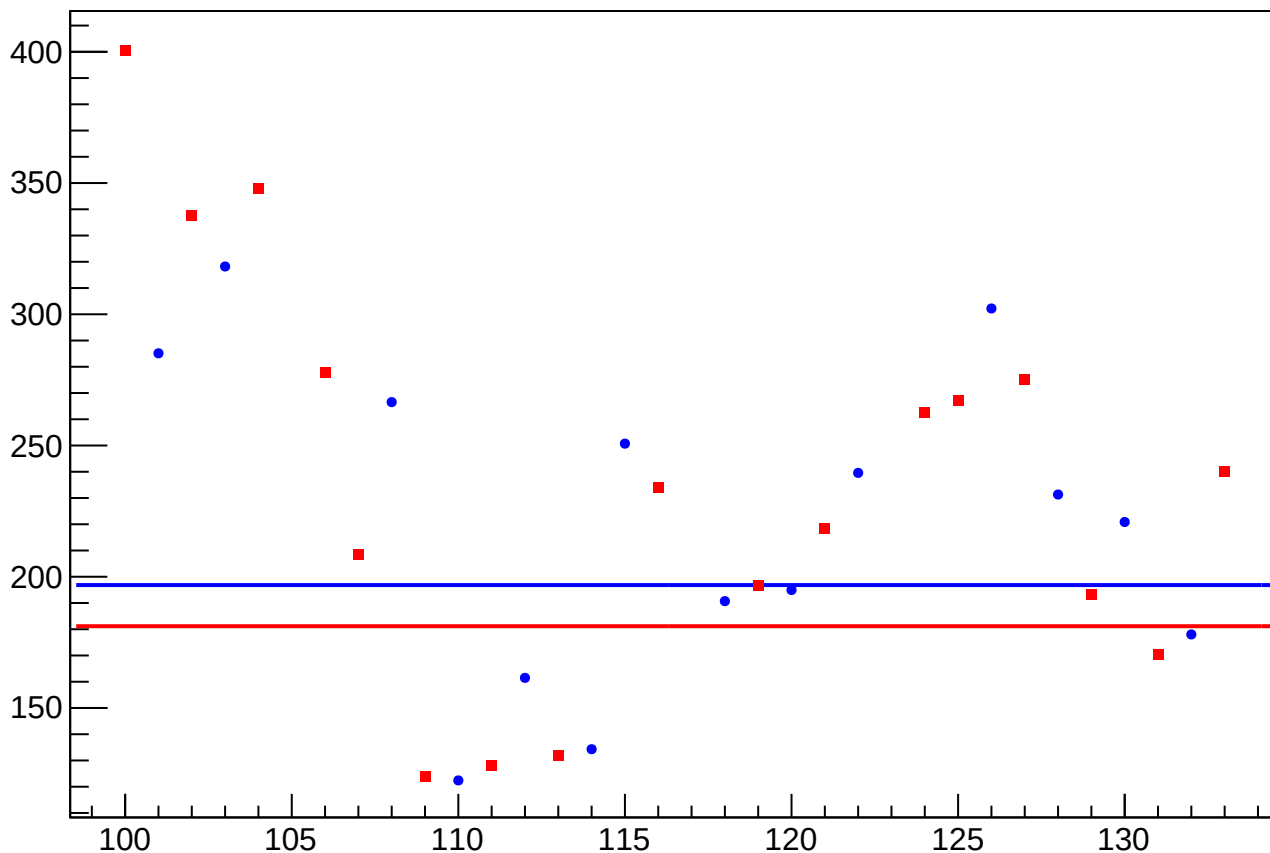
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $498.857 \pm 56.508$   $\chi^2/\text{NDF}$ : 956.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l08WS\_rms vs Slug



Right In: 196.827 $\pm$ 0.061  $\chi^2$ /NDF: 884907.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 181.155 $\pm$ 0.053  $\chi^2$ /NDF: 1428791.7/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

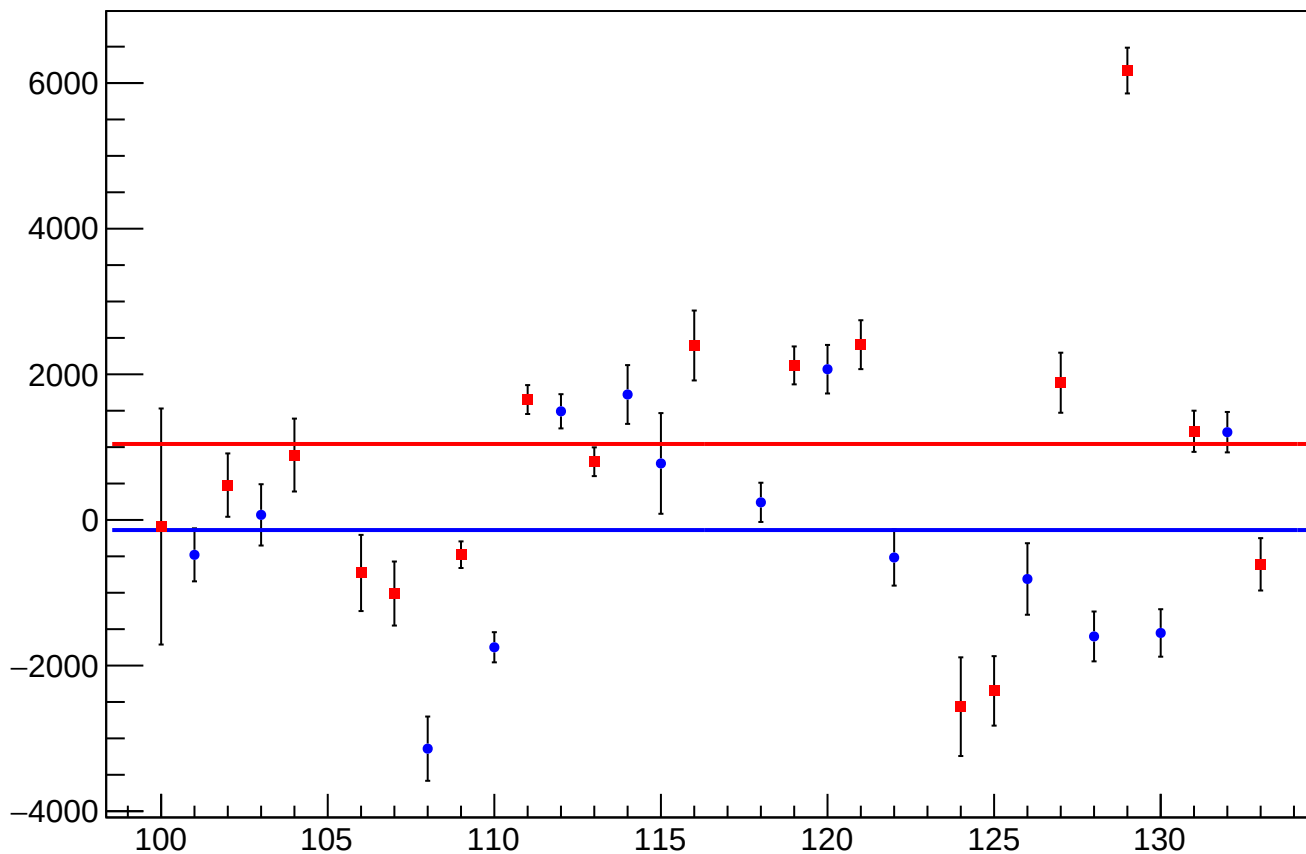
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 187.985 $\pm$ 0.040  $\chi^2$ /NDF: 2351524.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bpm0l09WS\_mean vs Slug



Right In: -138.864 $\pm$ 86.875  $\chi^2$ /NDF: 288.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1043.287 $\pm$ 76.656  $\chi^2$ /NDF: 528.1/16

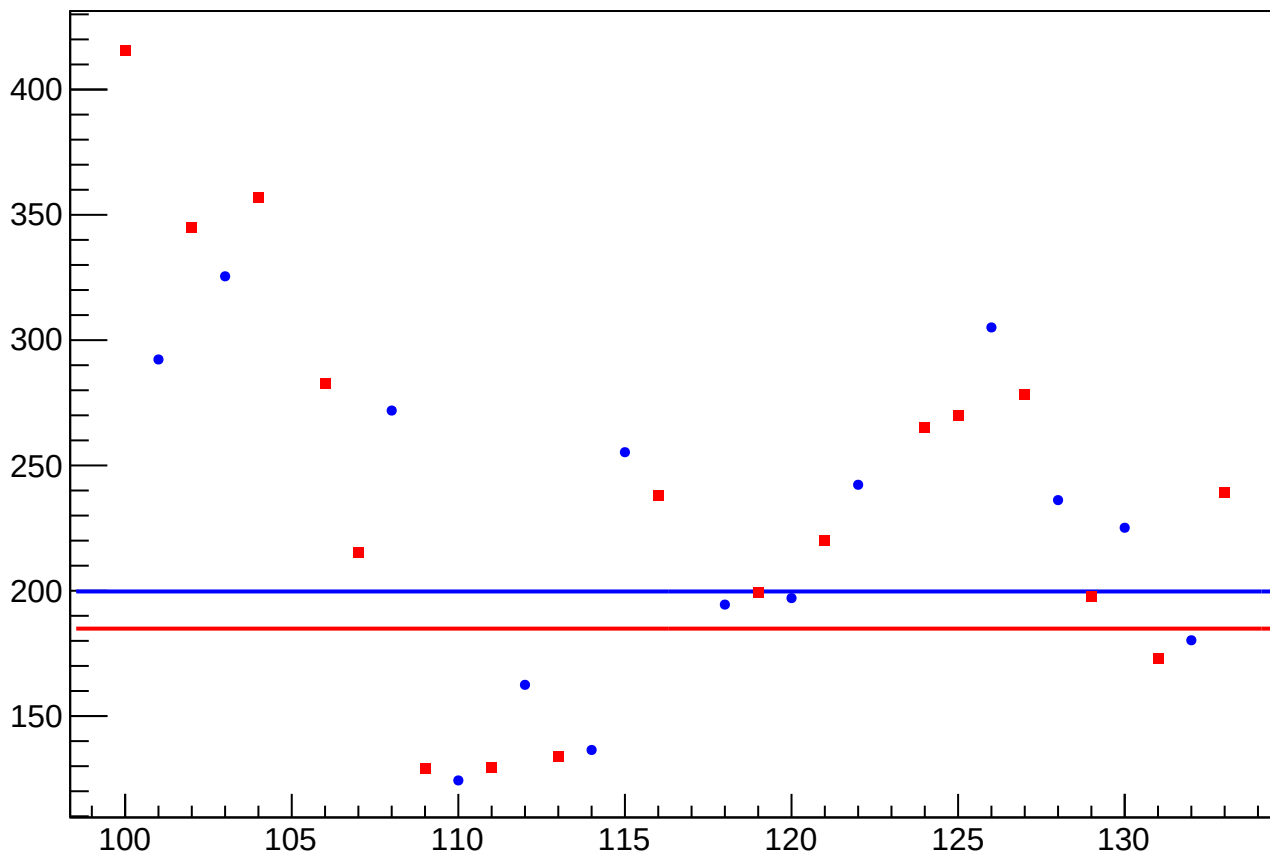
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 525.795 $\pm$ 57.479  $\chi^2$ /NDF: 920.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l09WS\_rms vs Slug



Right In: 199.716+/-0.061  $\chi^2/\text{NDF}$ : 900459.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 184.888+/-0.054  $\chi^2/\text{NDF}$ : 1399672.0/16

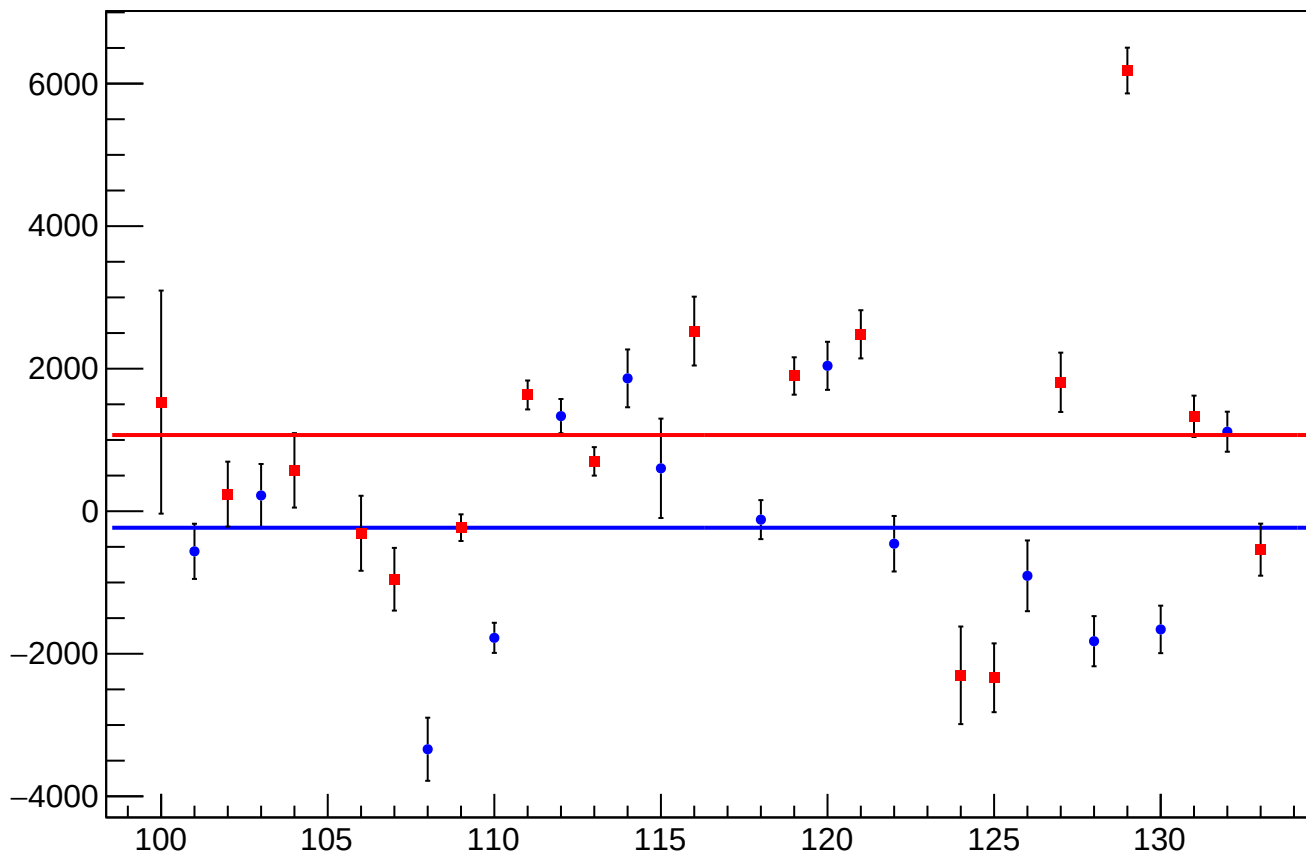
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 191.379+/-0.041  $\chi^2/\text{NDF}$ : 2332891.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l10WS\_mean vs Slug



Right In: -231.850+/-88.598  $\chi^2/\text{NDF}$ : 284.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1069.076+/-77.968  $\chi^2/\text{NDF}$ : 479.8/16

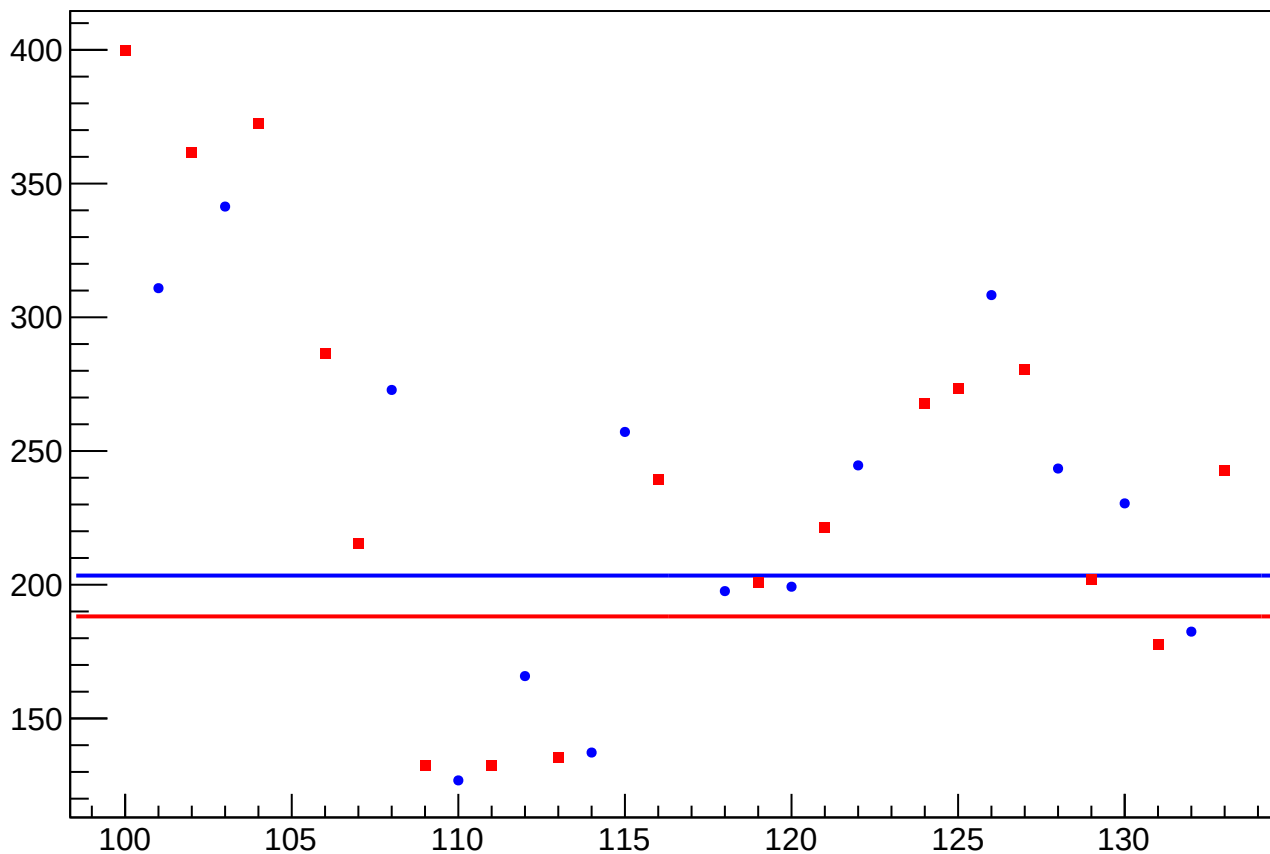
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 501.298+/-58.531  $\chi^2/\text{NDF}$ : 886.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l10WS\_rms vs Slug



Right In: 203.426+/-0.063  $\chi^2/\text{NDF}$ : 938845.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 188.149+/-0.055  $\chi^2/\text{NDF}$ : 1406963.4/16

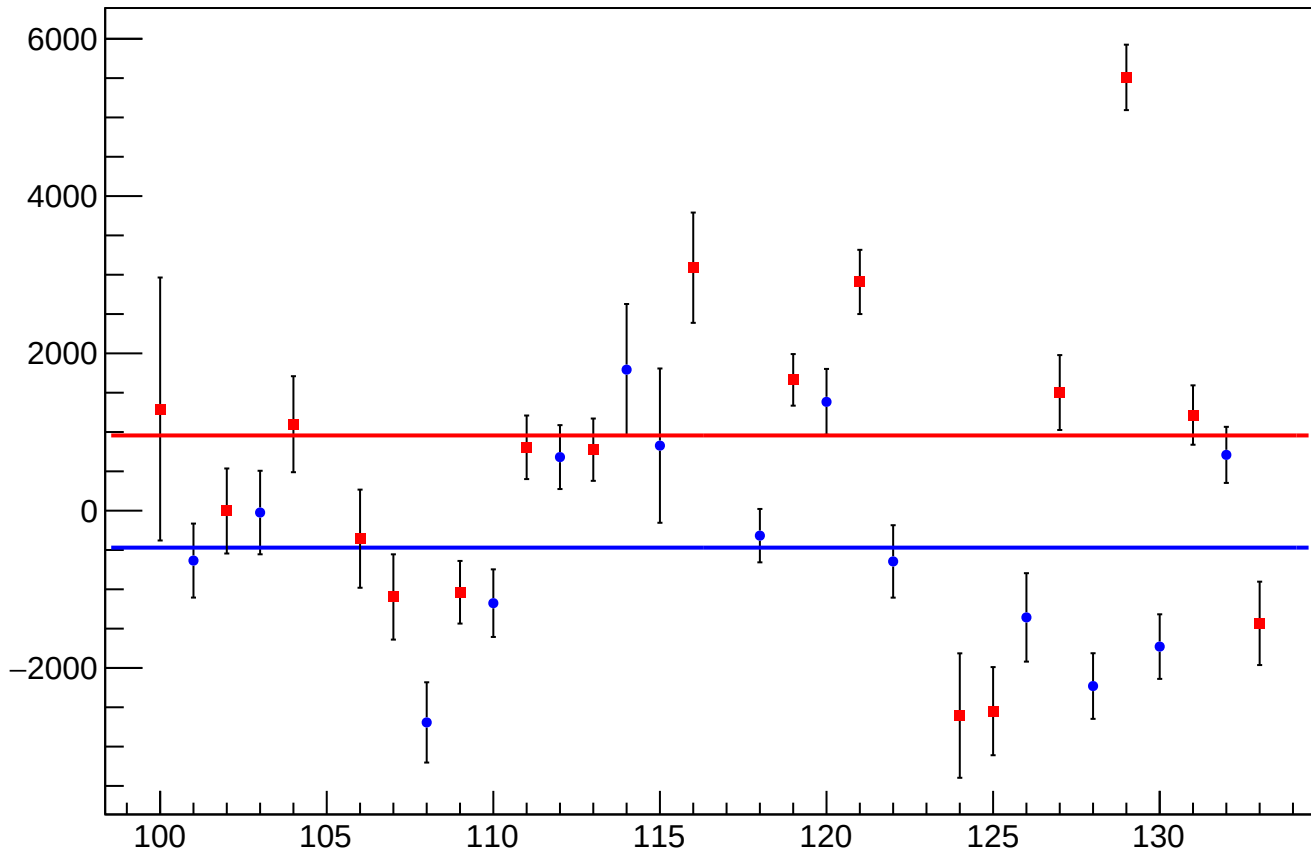
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 194.817+/-0.041  $\chi^2/\text{NDF}$ : 2379322.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0r03WS\_mean vs Slug



Right In: -469.957+/-121.590  $\chi^2/\text{NDF}$ : 100.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 956.397+/-116.169  $\chi^2/\text{NDF}$ : 285.4/16

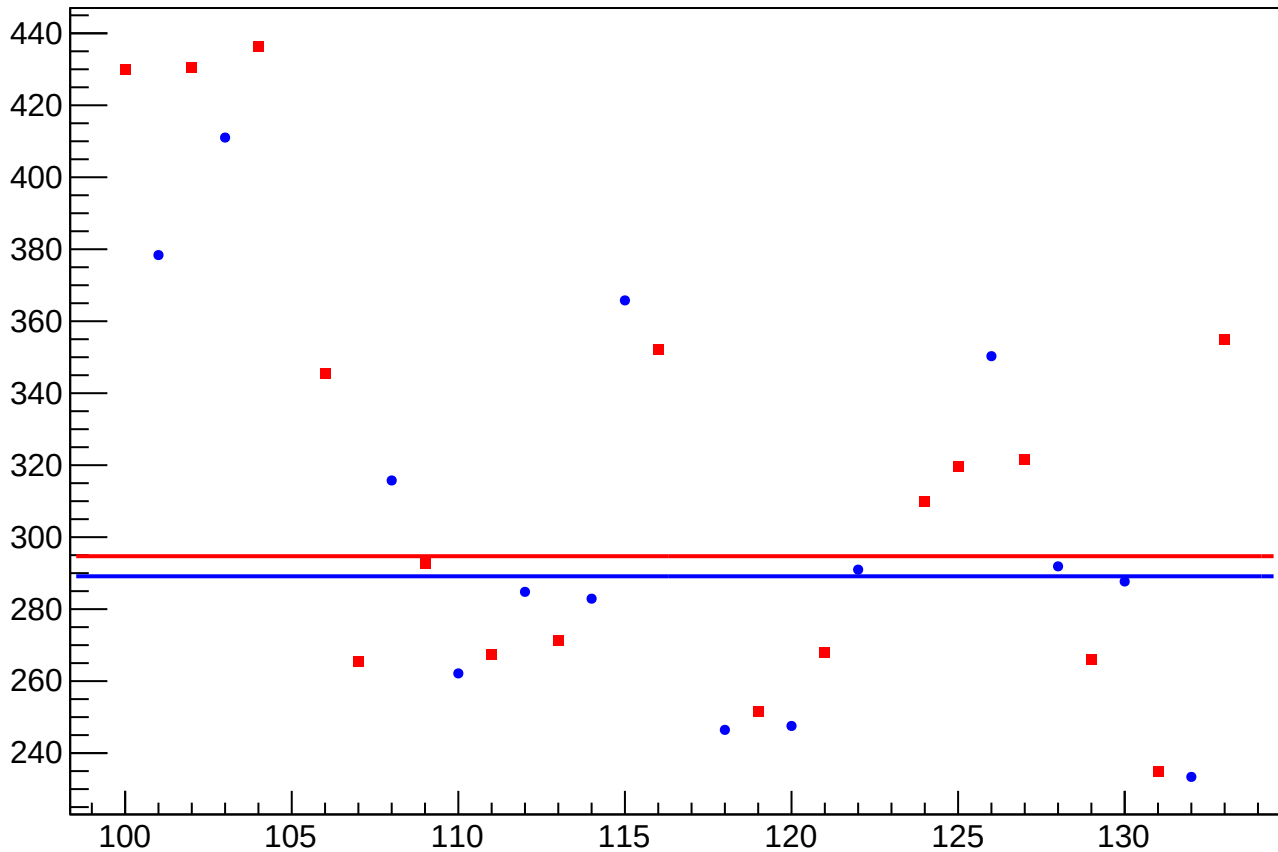
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 275.723+/-83.995  $\chi^2/\text{NDF}$ : 457.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0r03WS\_rms vs Slug



Right In: 289.129+/-0.086  $\chi^2/\text{NDF}$ : 327246.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 294.710+/-0.082  $\chi^2/\text{NDF}$ : 435327.9/16

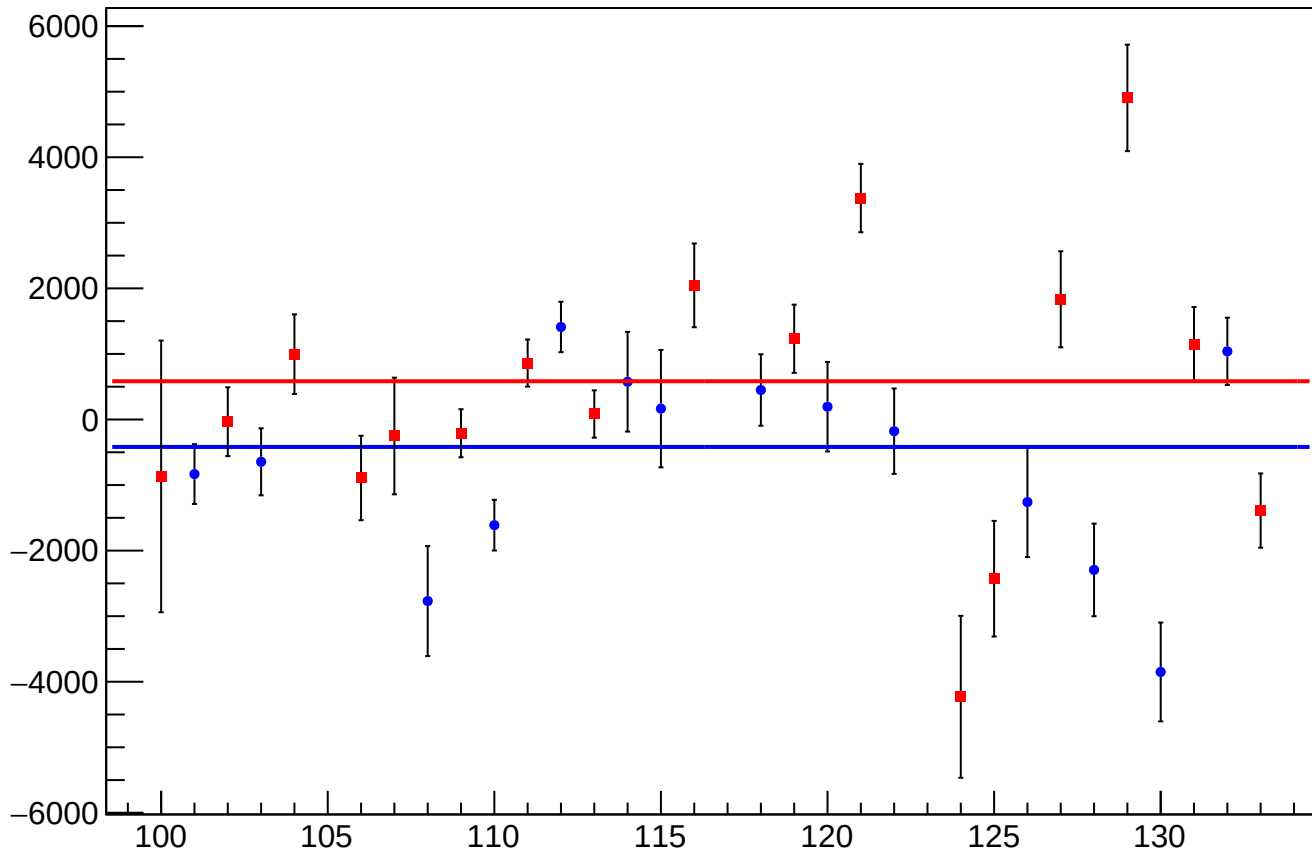
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 292.047+/-0.059  $\chi^2/\text{NDF}$ : 764777.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0r05WS\_mean vs Slug



Right In: -418.613+/-151.872  $\chi^2$ /NDF: 83.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 583.515+/-135.512  $\chi^2$ /NDF: 122.4/16

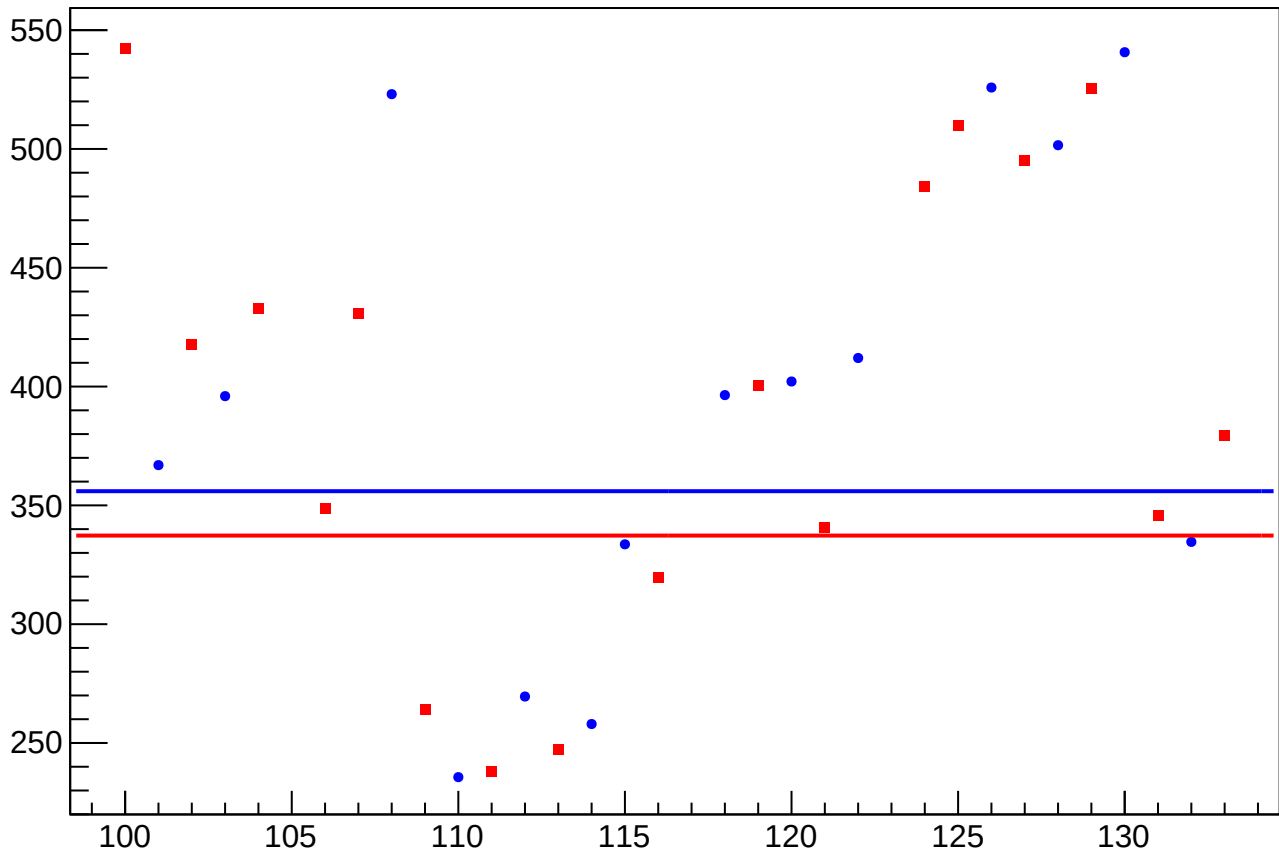
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 139.316+/-101.113  $\chi^2$ /NDF: 230.2/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0r05WS\_rms vs Slug



Right In: 355.968+/-0.107  $\chi^2/\text{NDF}$ : 747786.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 337.291+/-0.096  $\chi^2/\text{NDF}$ : 843221.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

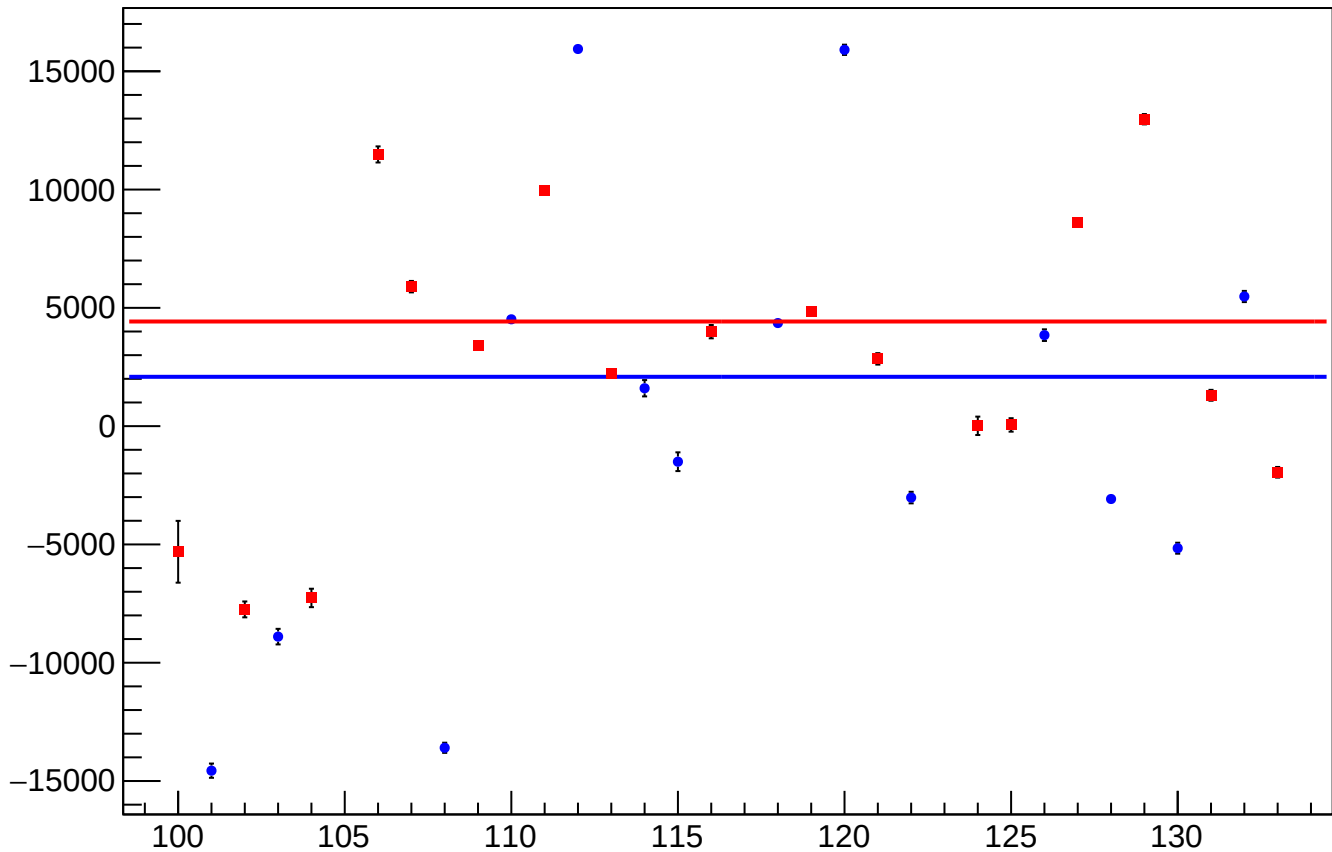
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 345.569+/-0.071  $\chi^2/\text{NDF}$ : 1607848.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0i02WS\_mean vs Slug



Right In: 2085.385+/-60.247  $\chi^2/\text{NDF}$ : 22736.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4423.001+/-55.480  $\chi^2/\text{NDF}$ : 7575.5/16

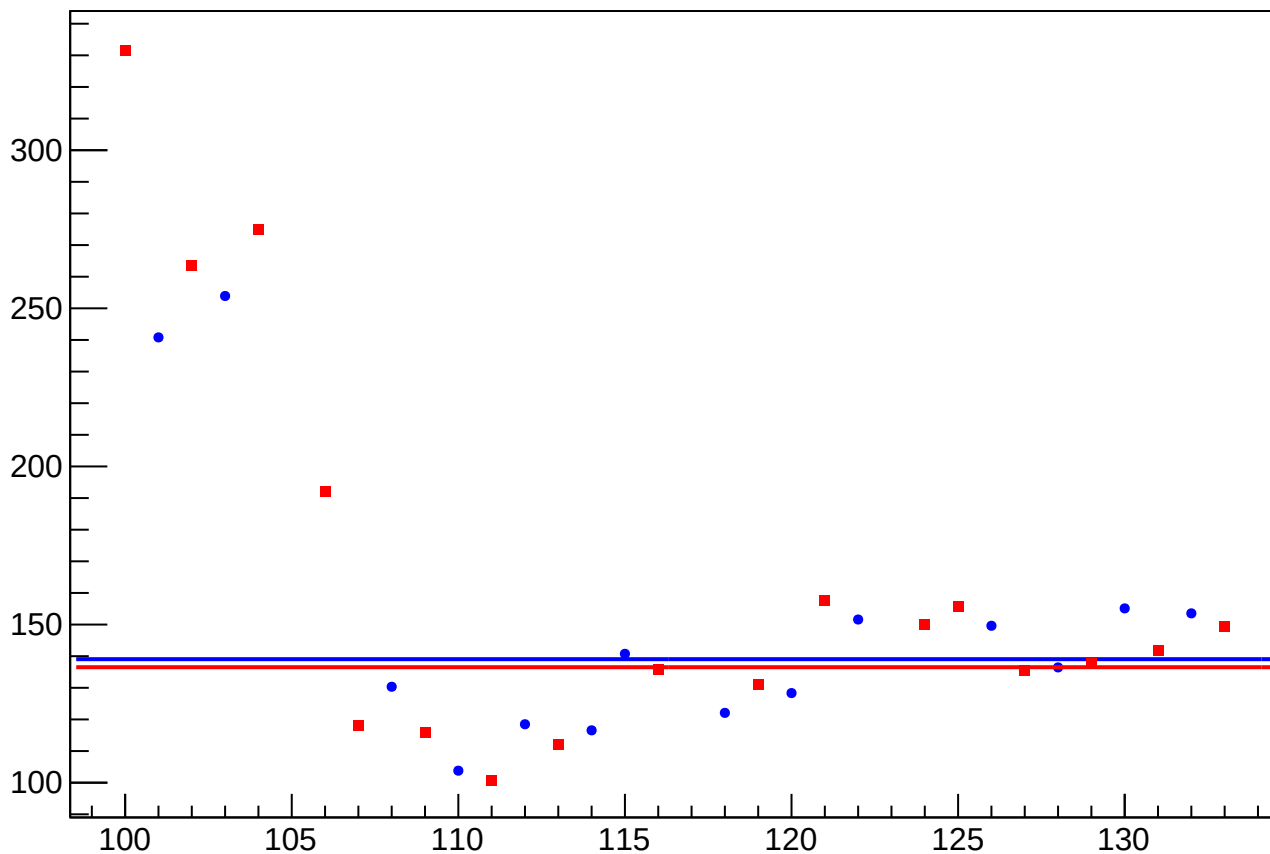
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3350.310+/-40.812  $\chi^2/\text{NDF}$ : 31127.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02WS\_rms vs Slug



Right In: 139.054 $\pm$ 0.043  $\chi^2$ /NDF: 646006.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 136.513 $\pm$ 0.039  $\chi^2$ /NDF: 866000.9/16

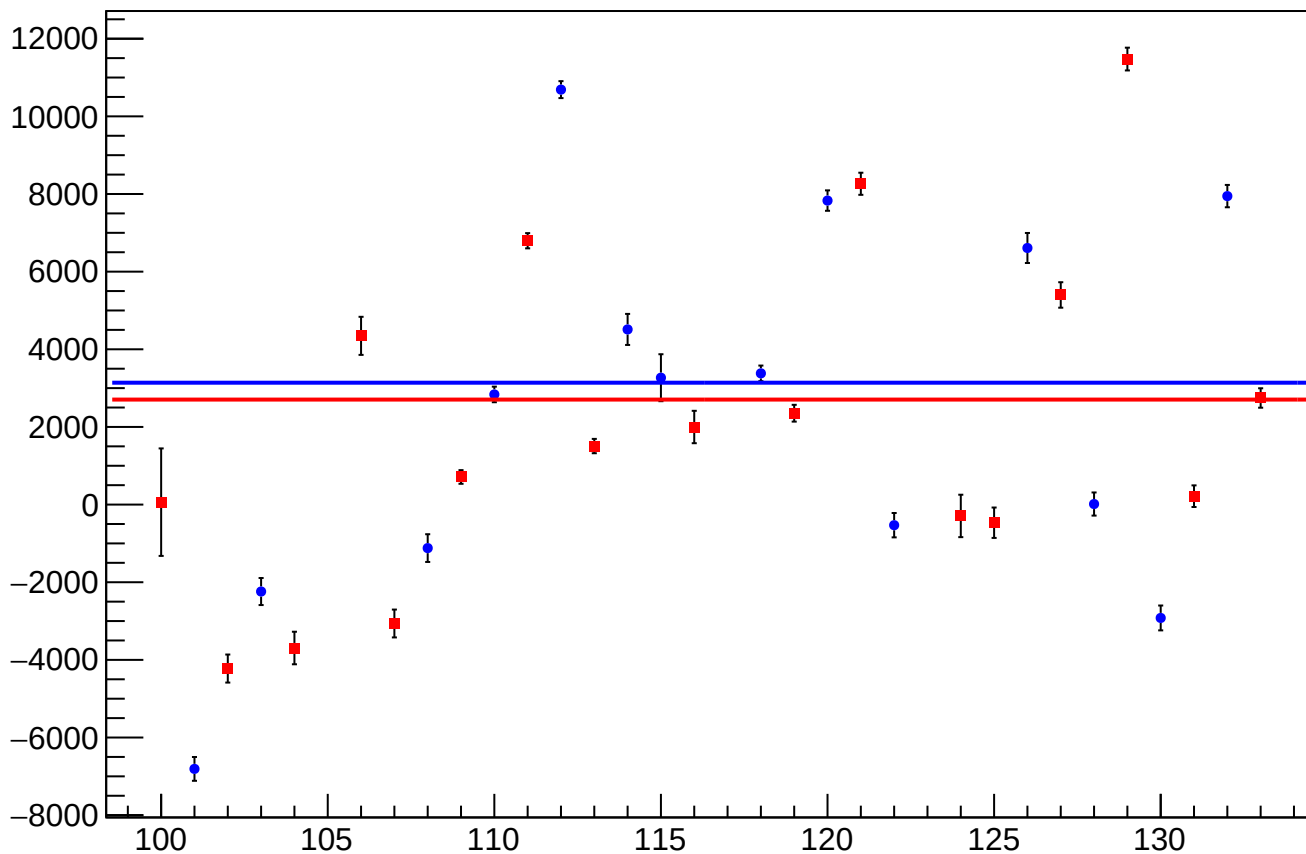
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 137.679 $\pm$ 0.029  $\chi^2$ /NDF: 1513932.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i02aWS\_mean vs Slug



Right In: 3139.509+/-76.520  $\chi^2/\text{NDF}$ : 3930.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2704.904+/-68.598  $\chi^2/\text{NDF}$ : 3004.2/16

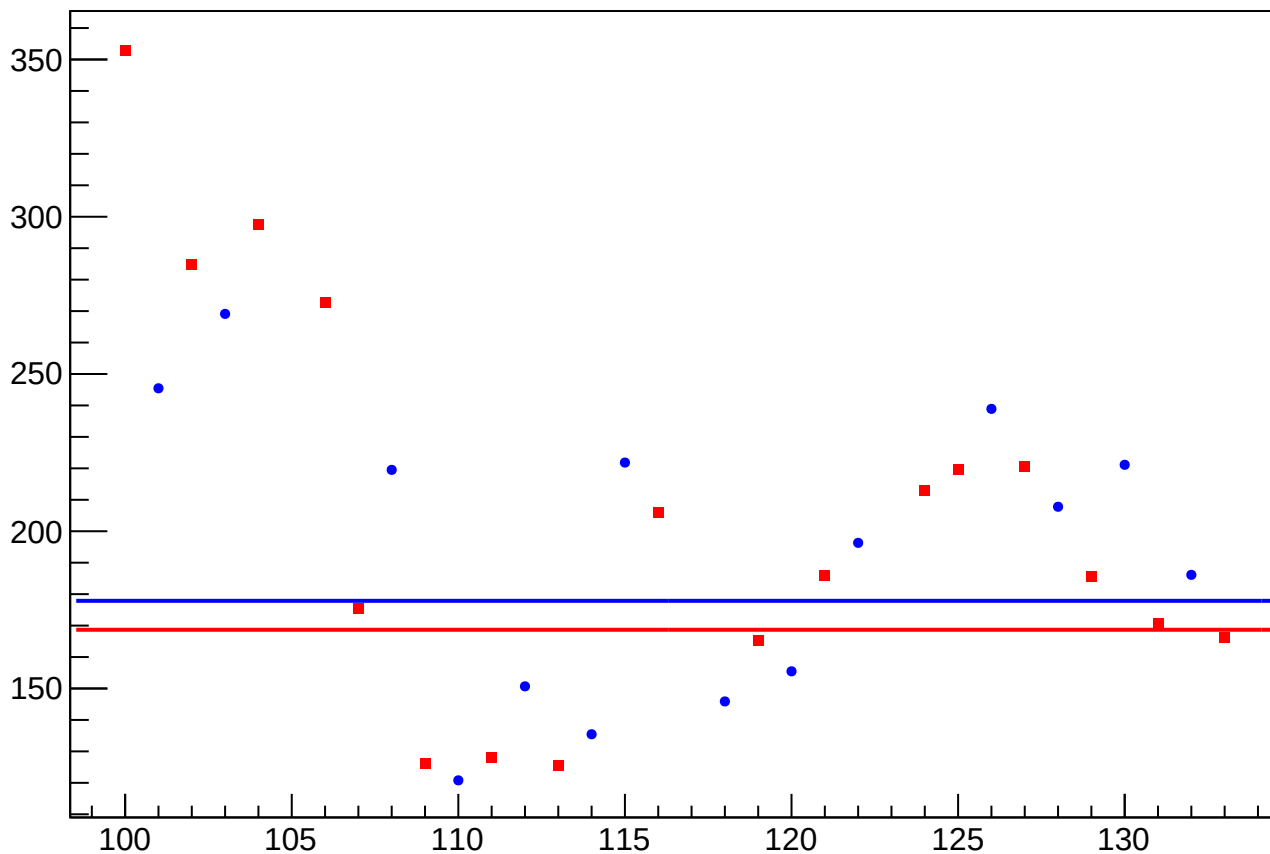
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2898.551+/-51.078  $\chi^2/\text{NDF}$ : 6952.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02aWS\_rms vs Slug



Right In: 177.873+/-0.054  $\chi^2/\text{NDF}$ : 667890.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 168.672+/-0.049  $\chi^2/\text{NDF}$ : 963388.2/16

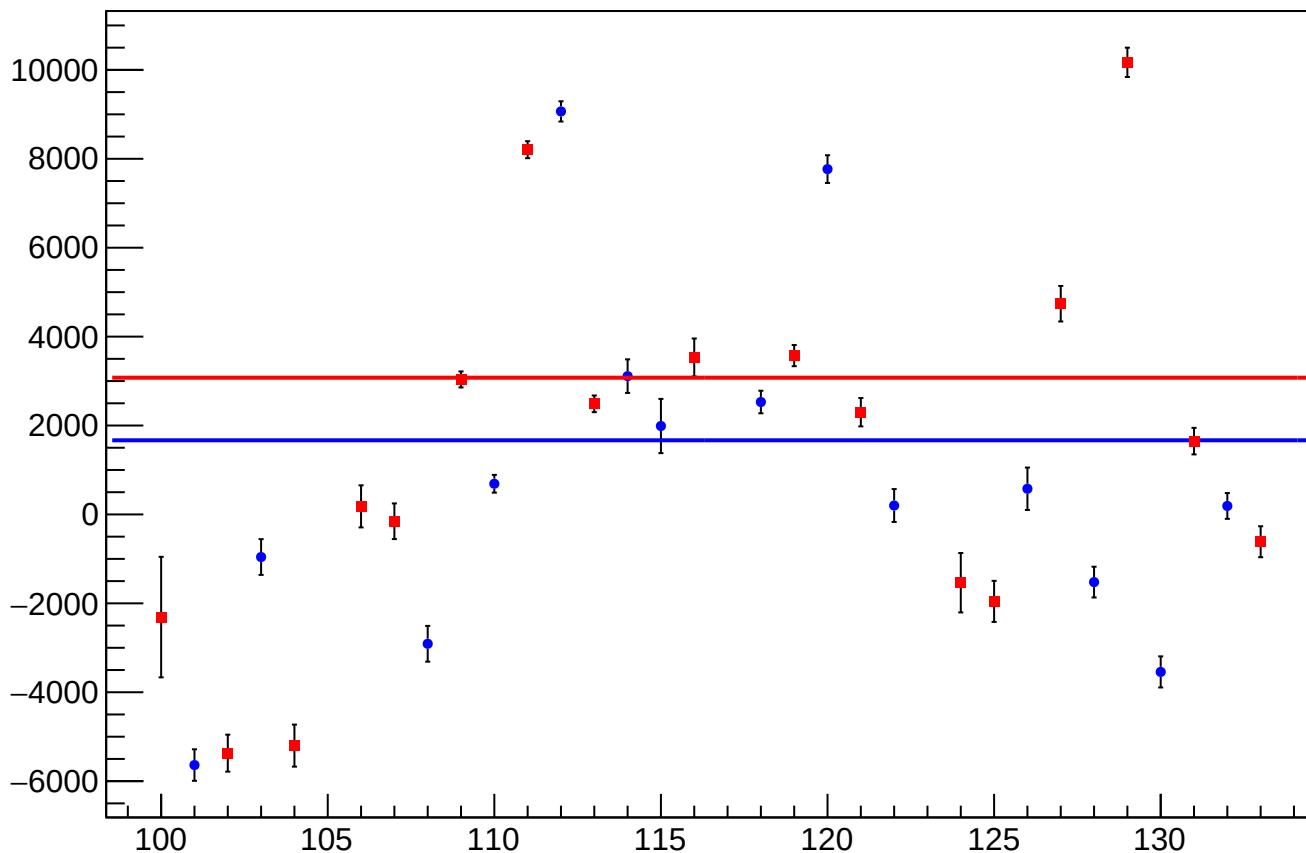
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 172.772+/-0.036  $\chi^2/\text{NDF}$ : 1647310.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i05WS\_mean vs Slug



Right In: 1667.642 $\pm$ 84.432  $\chi^2$ /NDF: 2437.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3075.662 $\pm$ 73.953  $\chi^2$ /NDF: 2360.5/16

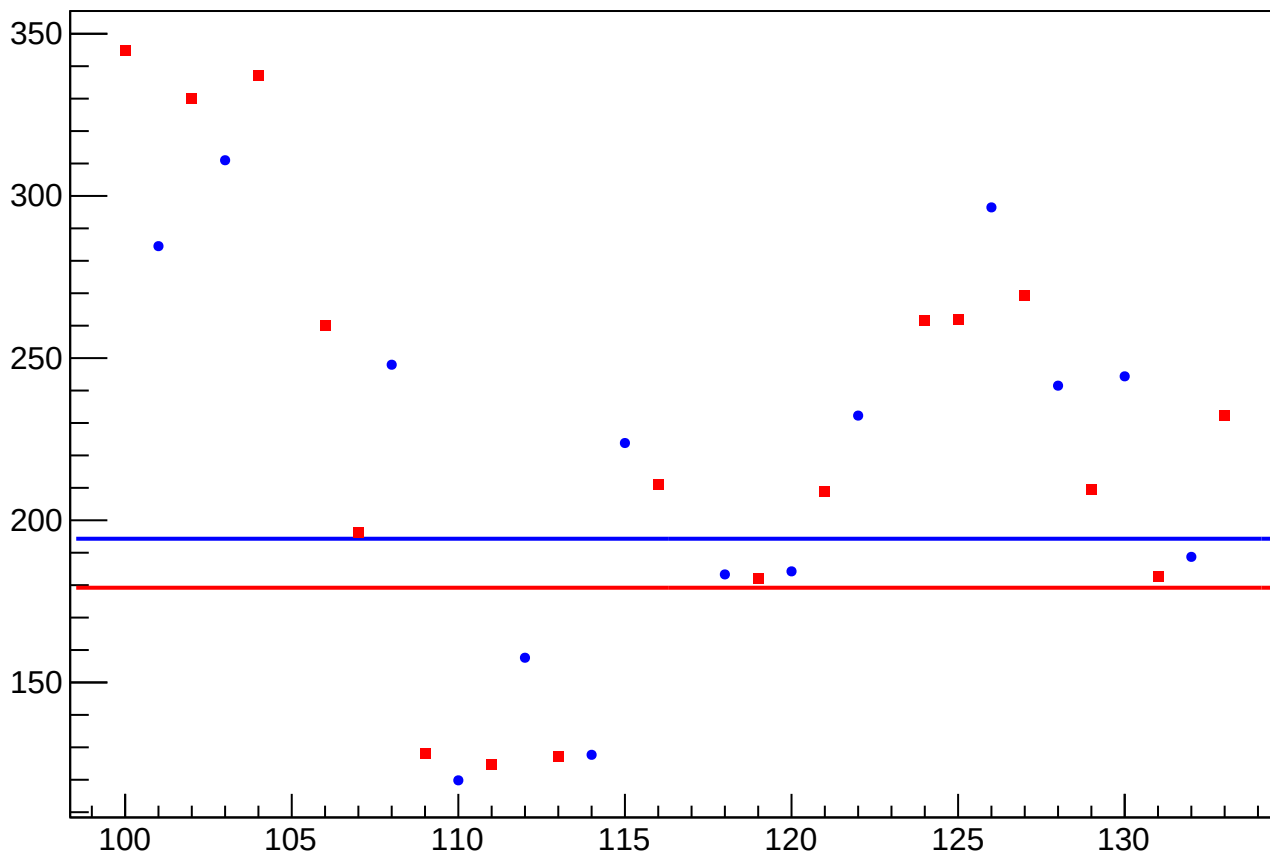
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2464.402 $\pm$ 55.631  $\chi^2$ /NDF: 4955.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i05WS\_rms vs Slug



Right In:  $194.311 \pm 0.060$   $\chi^2/\text{NDF}: 928051.4/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $179.207 \pm 0.052$   $\chi^2/\text{NDF}: 1344311.1/16$

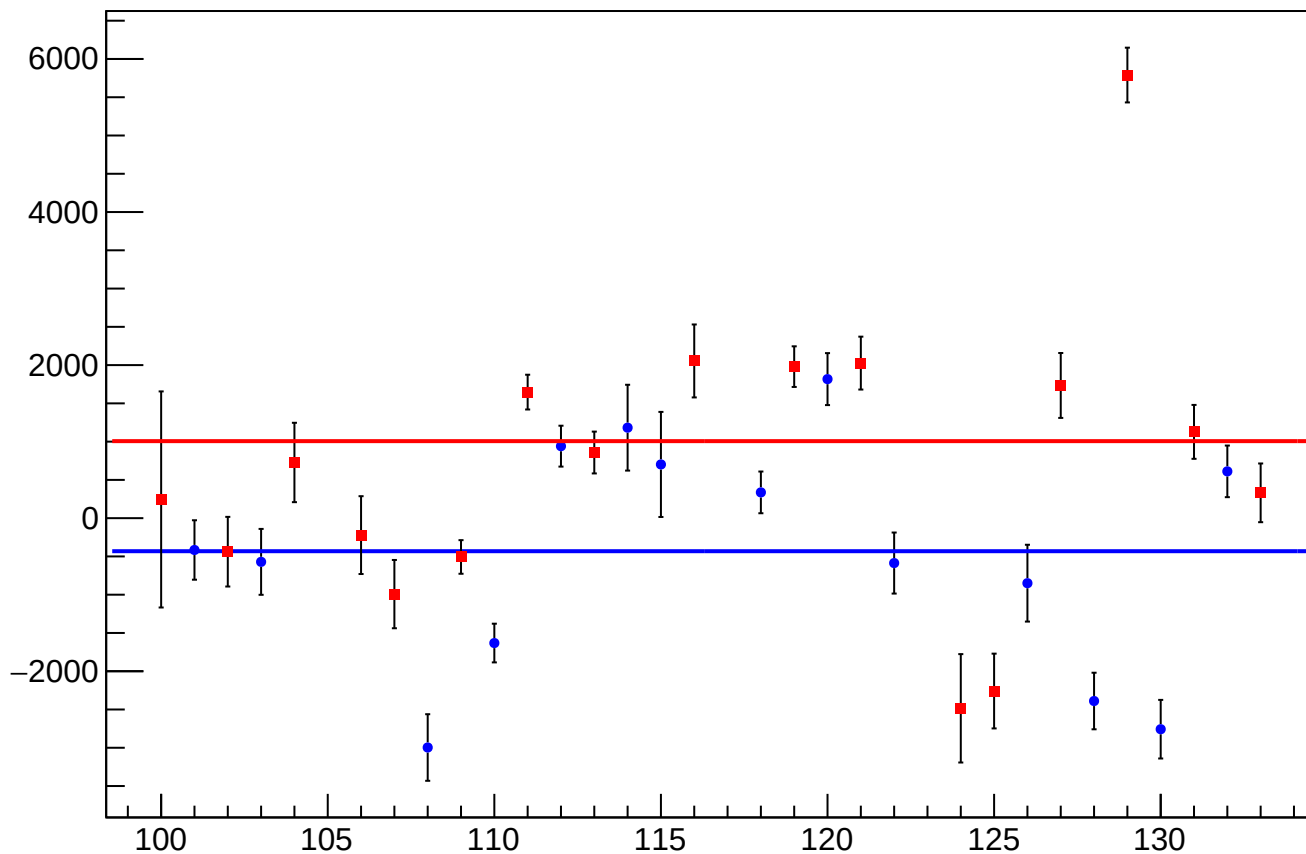
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $185.764 \pm 0.039$   $\chi^2/\text{NDF}: 2308581.6/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# asym\_bpm0i07WS\_mean vs Slug



Right In:  $-431.652 \pm 96.409$   $\chi^2/\text{NDF}$ : 222.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1006.486 \pm 86.765$   $\chi^2/\text{NDF}$ : 373.2/16

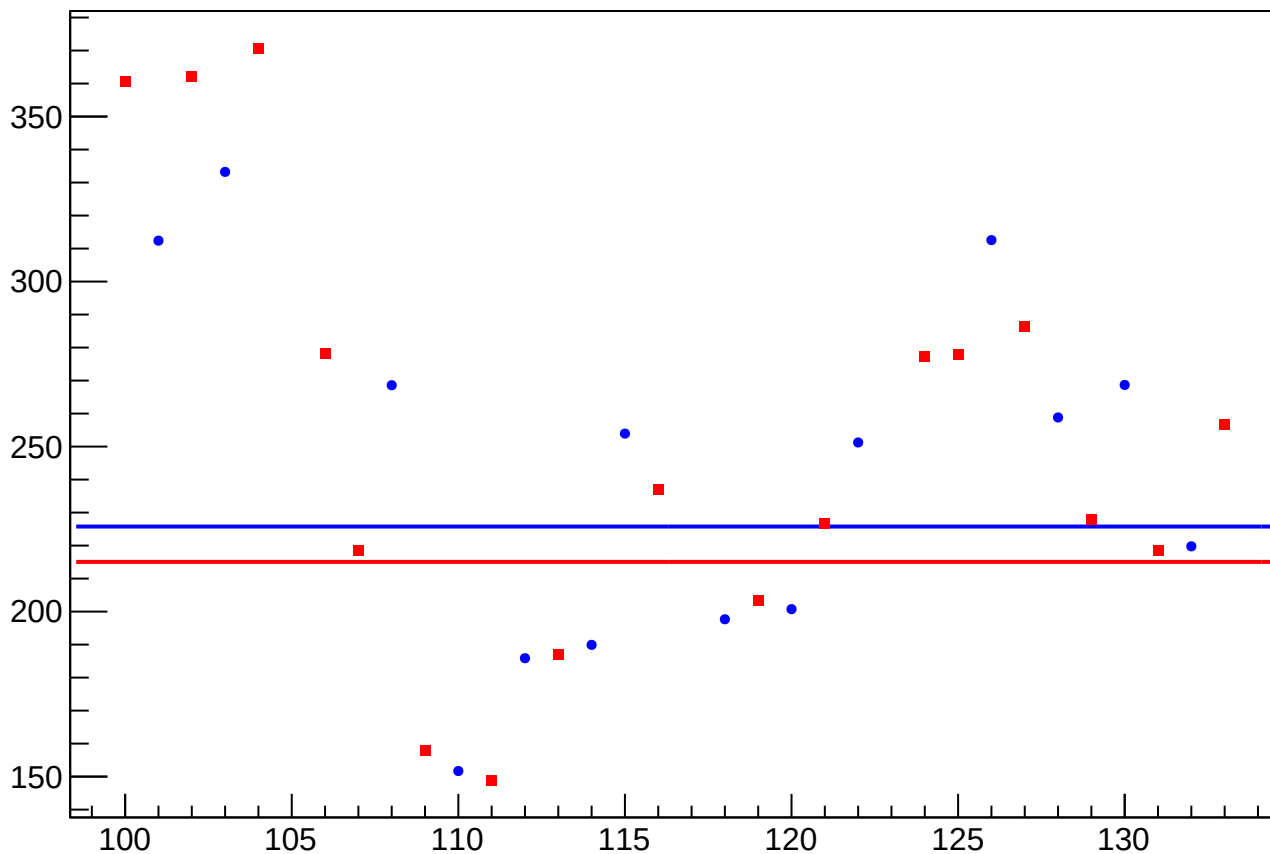
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $362.929 \pm 64.493$   $\chi^2/\text{NDF}$ : 718.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i07WS\_rms vs Slug



Right In:  $225.772 \pm 0.068$   $\chi^2/\text{NDF}$ : 613078.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $215.056 \pm 0.061$   $\chi^2/\text{NDF}$ : 907898.2/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

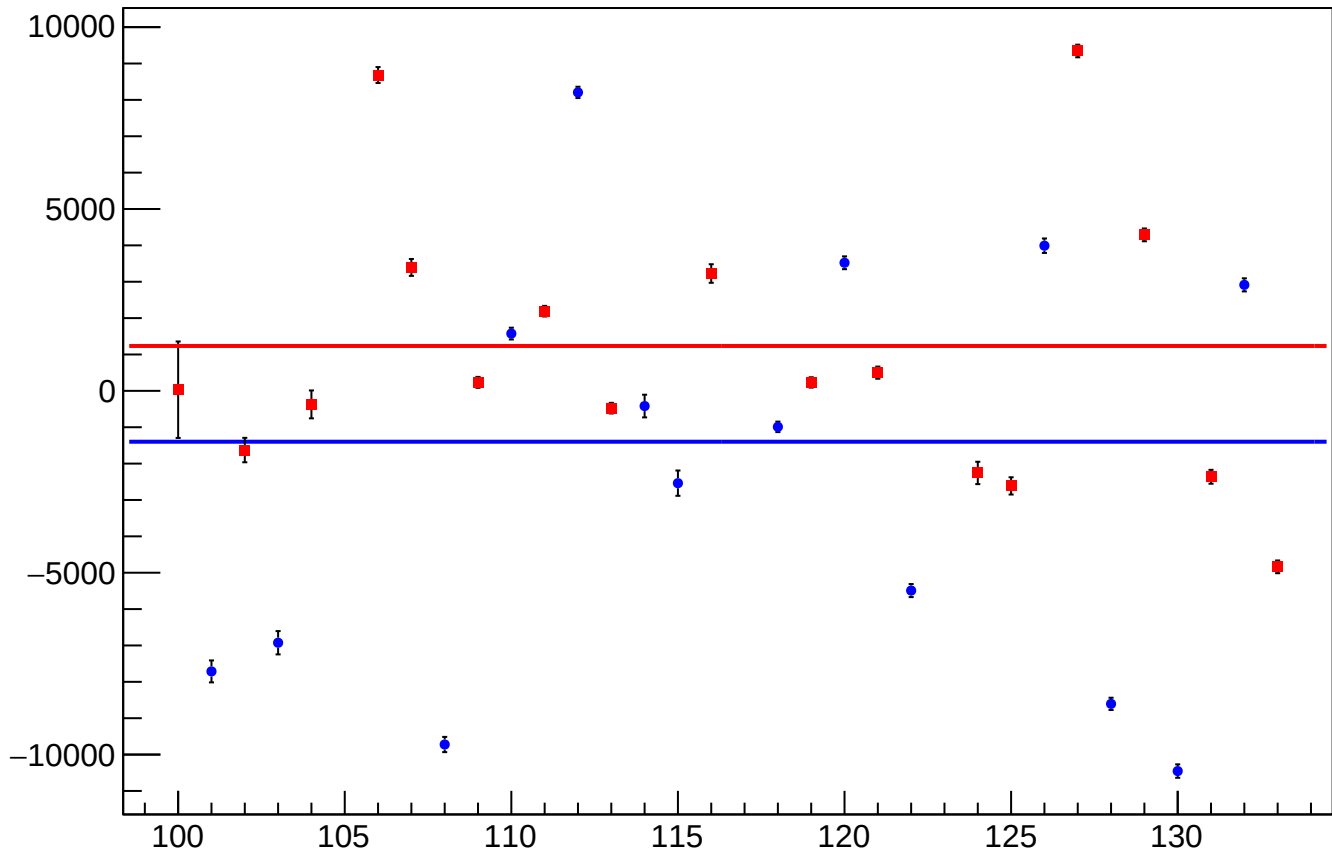
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $219.851 \pm 0.046$   $\chi^2/\text{NDF}$ : 1534627.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm1i02WS\_mean vs Slug



Right In:  $-1398.285 \pm 51.785$   $\chi^2/\text{NDF}$ : 13310.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1234.268 \pm 47.236$   $\chi^2/\text{NDF}$ : 6128.8/16

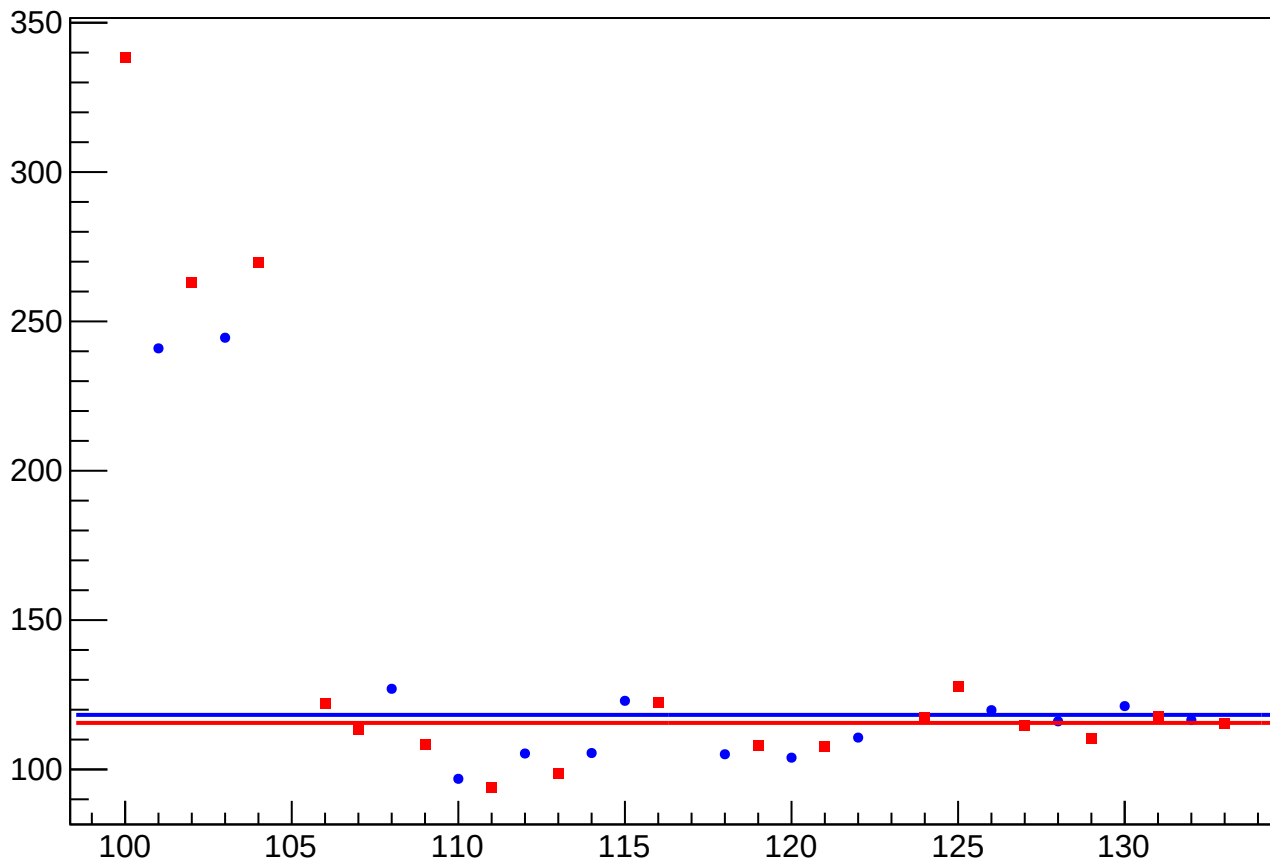
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $38.671 \pm 34.899$   $\chi^2/\text{NDF}$ : 20850.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i02WS\_rms vs Slug



Right In: 118.268+/-0.037  $\chi^2/\text{NDF}$ : 731617.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 115.577+/-0.033  $\chi^2/\text{NDF}$ : 862458.2/16

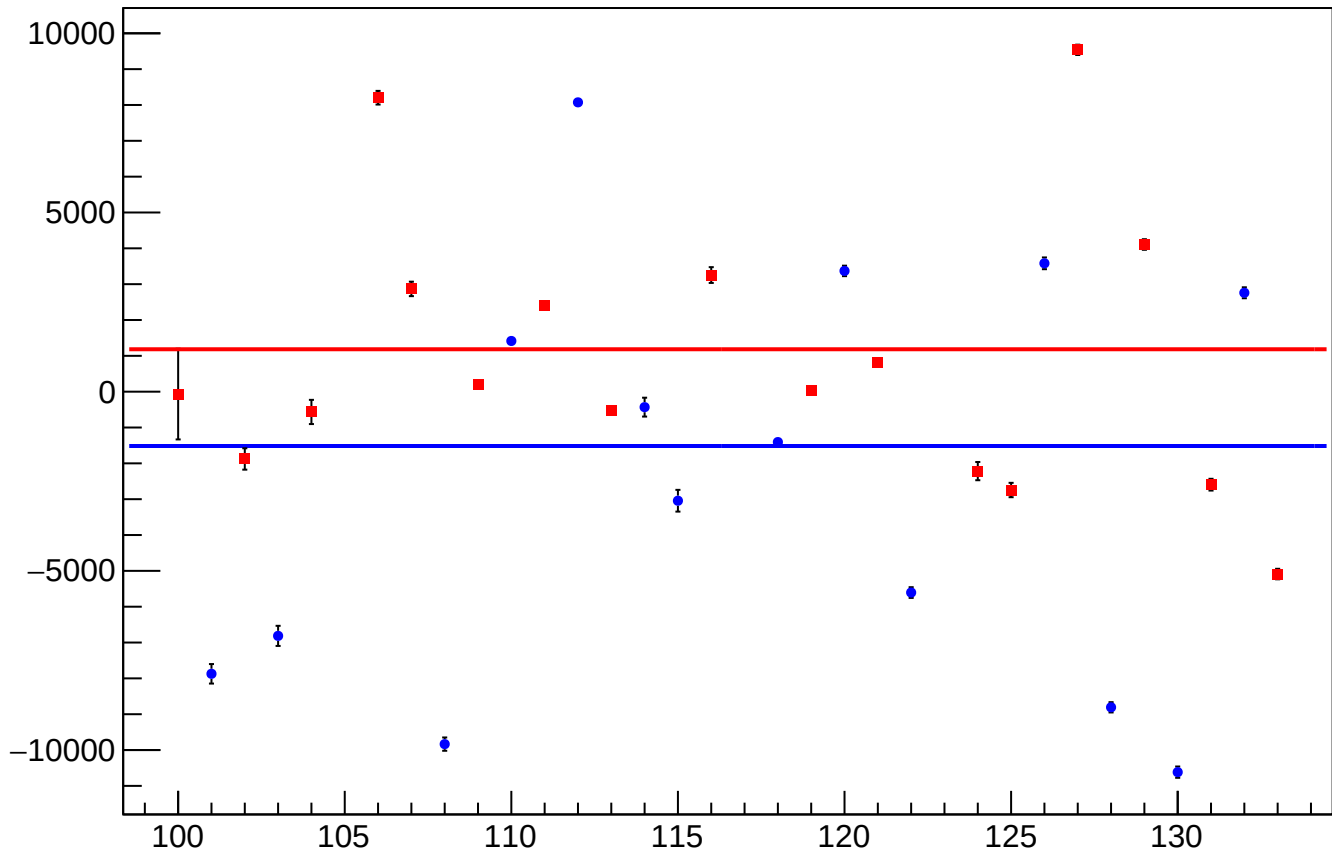
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 116.799+/-0.025  $\chi^2/\text{NDF}$ : 1597023.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i04WS\_mean vs Slug



Right In: -1515.984+/-43.950  $\chi^2/\text{NDF}$ : 18085.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1183.658+/-40.089  $\chi^2/\text{NDF}$ : 8796.5/16

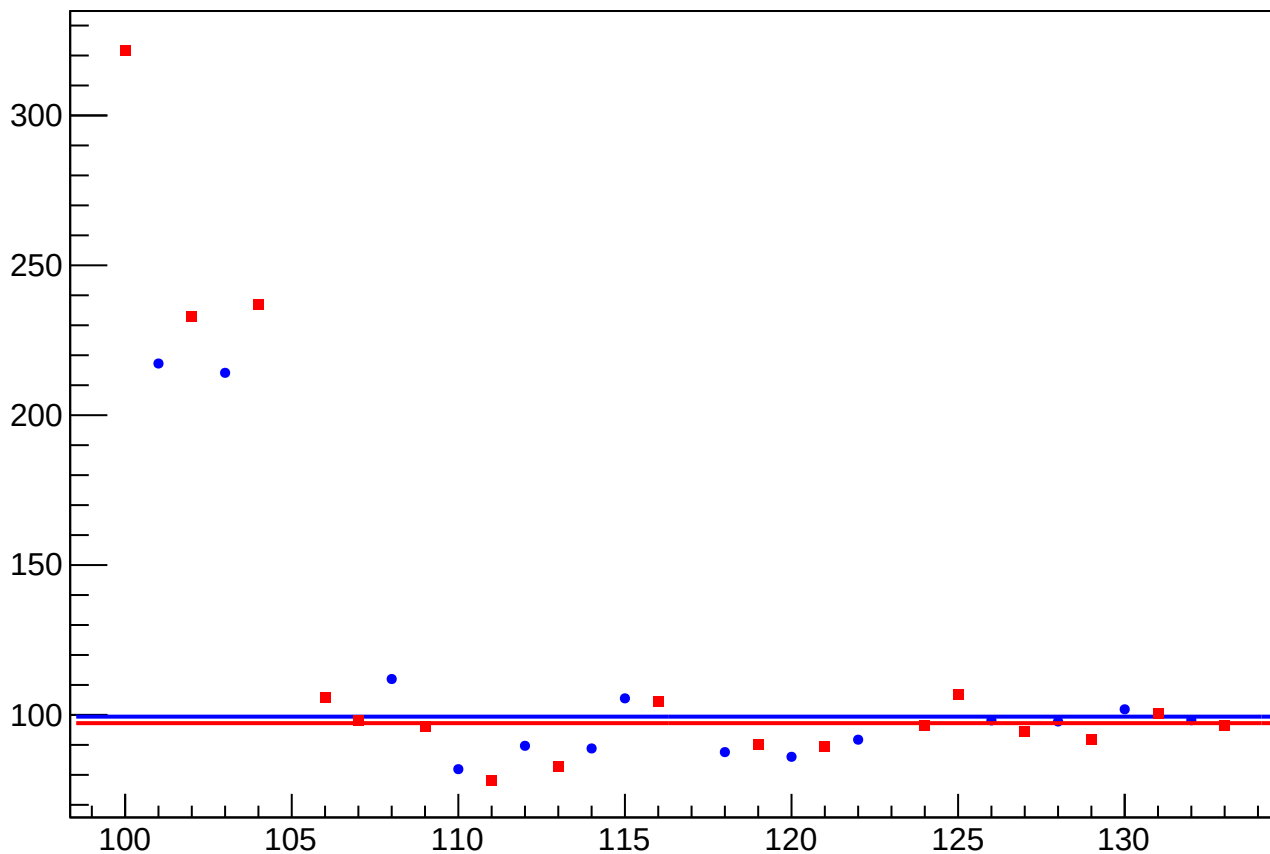
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -42.386+/-29.618  $\chi^2/\text{NDF}$ : 28941.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i04WS\_rms vs Slug



Right In: 99.426+/-0.031  $\chi^2/\text{NDF}$ : 806853.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 97.256+/-0.028  $\chi^2/\text{NDF}$ : 924292.5/16

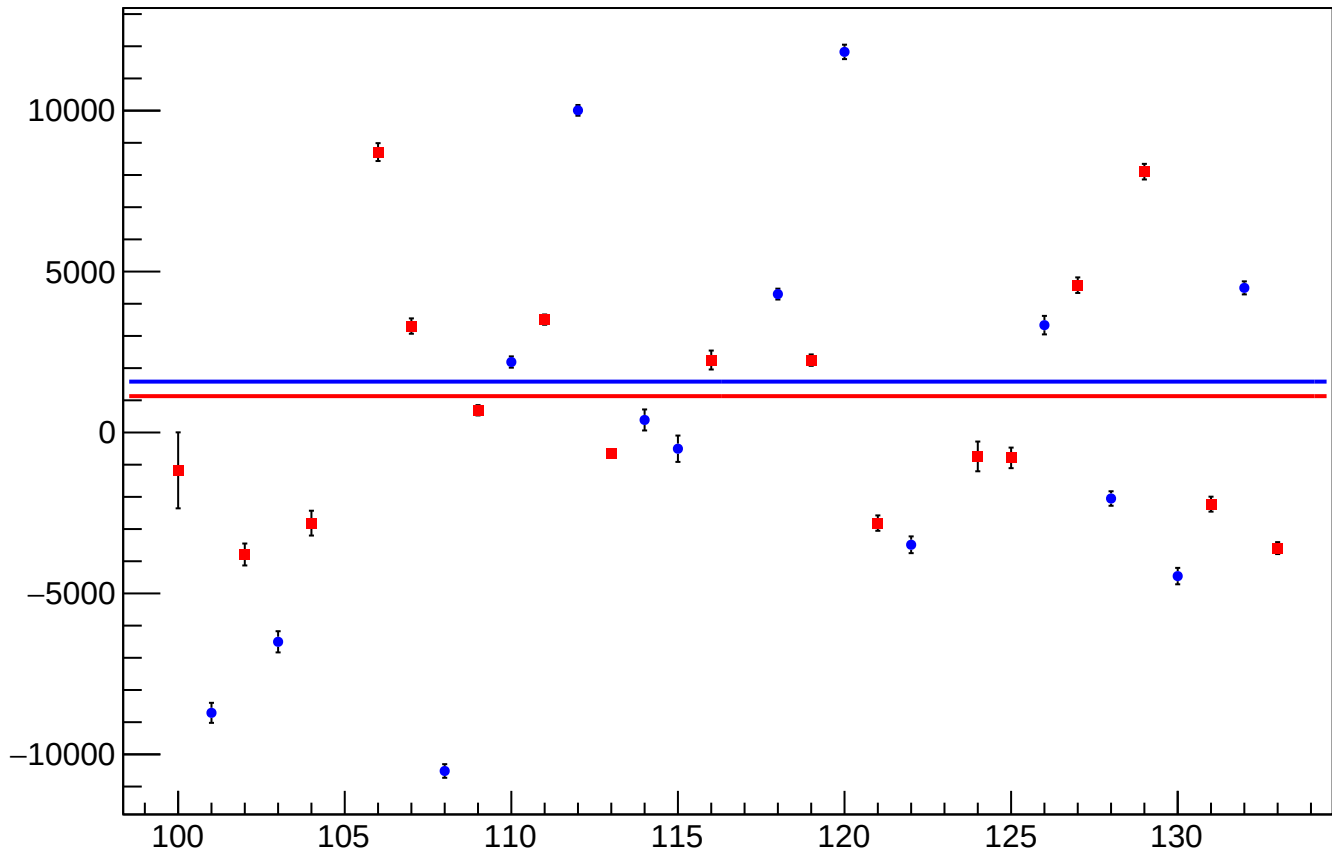
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 98.242+/-0.021  $\chi^2/\text{NDF}$ : 1733805.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i06WS\_mean vs Slug



Right In: 1580.914+/-61.239  $\chi^2/\text{NDF}$ : 11346.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1129.470+/-55.682  $\chi^2/\text{NDF}$ : 3771.8/16

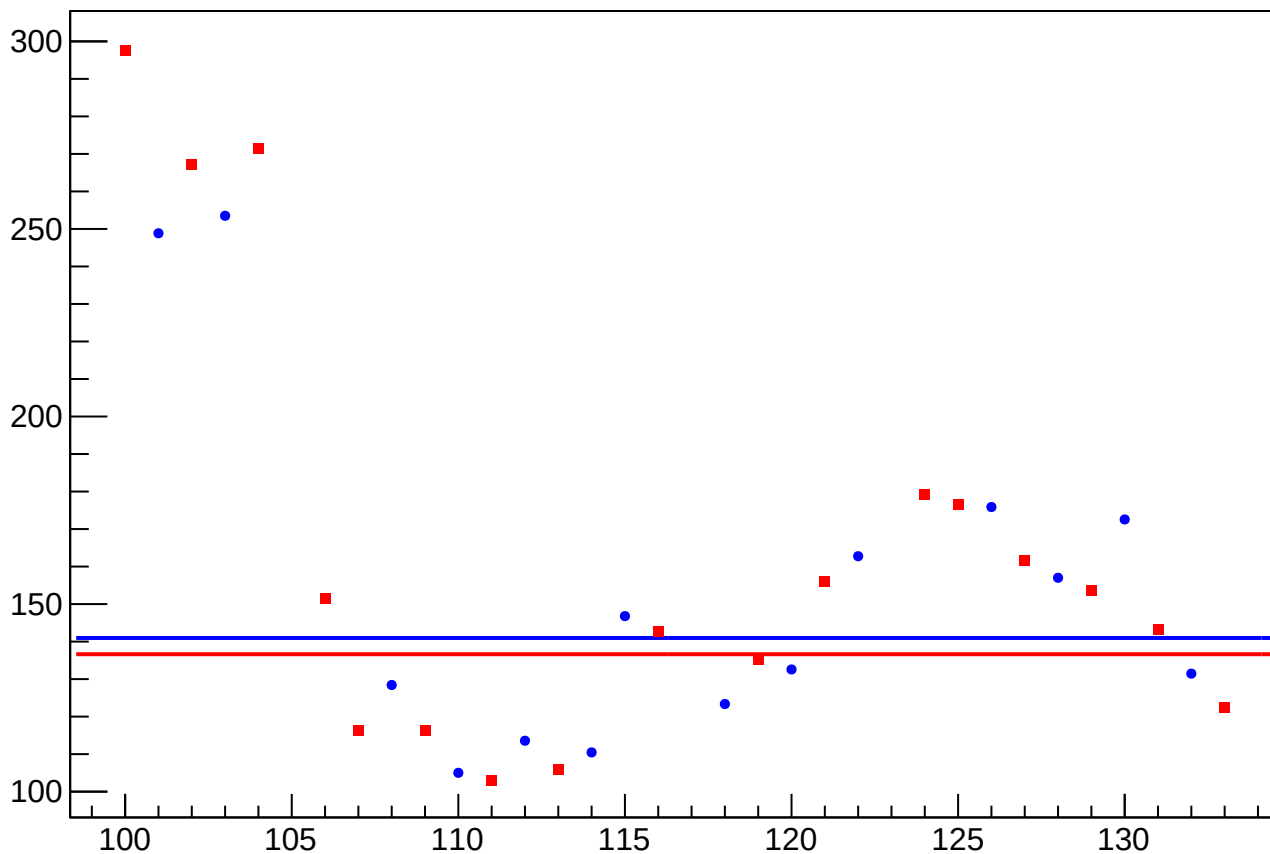
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1333.782+/-41.198  $\chi^2/\text{NDF}$ : 15147.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i06WS\_rms vs Slug



Right In: 140.967 $\pm$ 0.043  $\chi^2$ /NDF: 749729.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 136.636 $\pm$ 0.039  $\chi^2$ /NDF: 898953.9/16

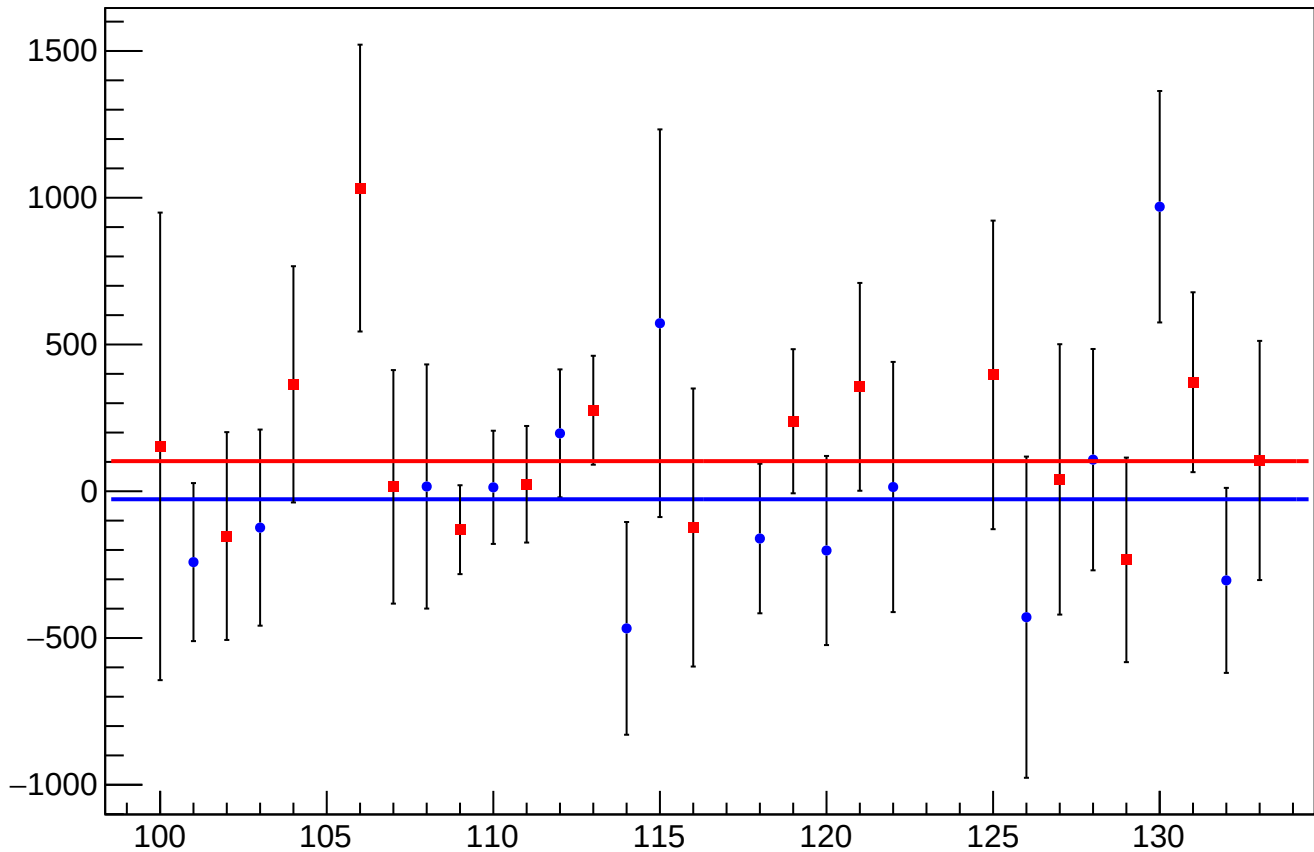
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 138.596 $\pm$ 0.029  $\chi^2$ /NDF: 1654158.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_2an\_us\_an\_ds\_avg\_mean vs Slug



Right In: -27.273+/-83.390  $\chi^2/\text{NDF}$ : 12.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 102.631+/-73.219  $\chi^2/\text{NDF}$ : 11.1/15

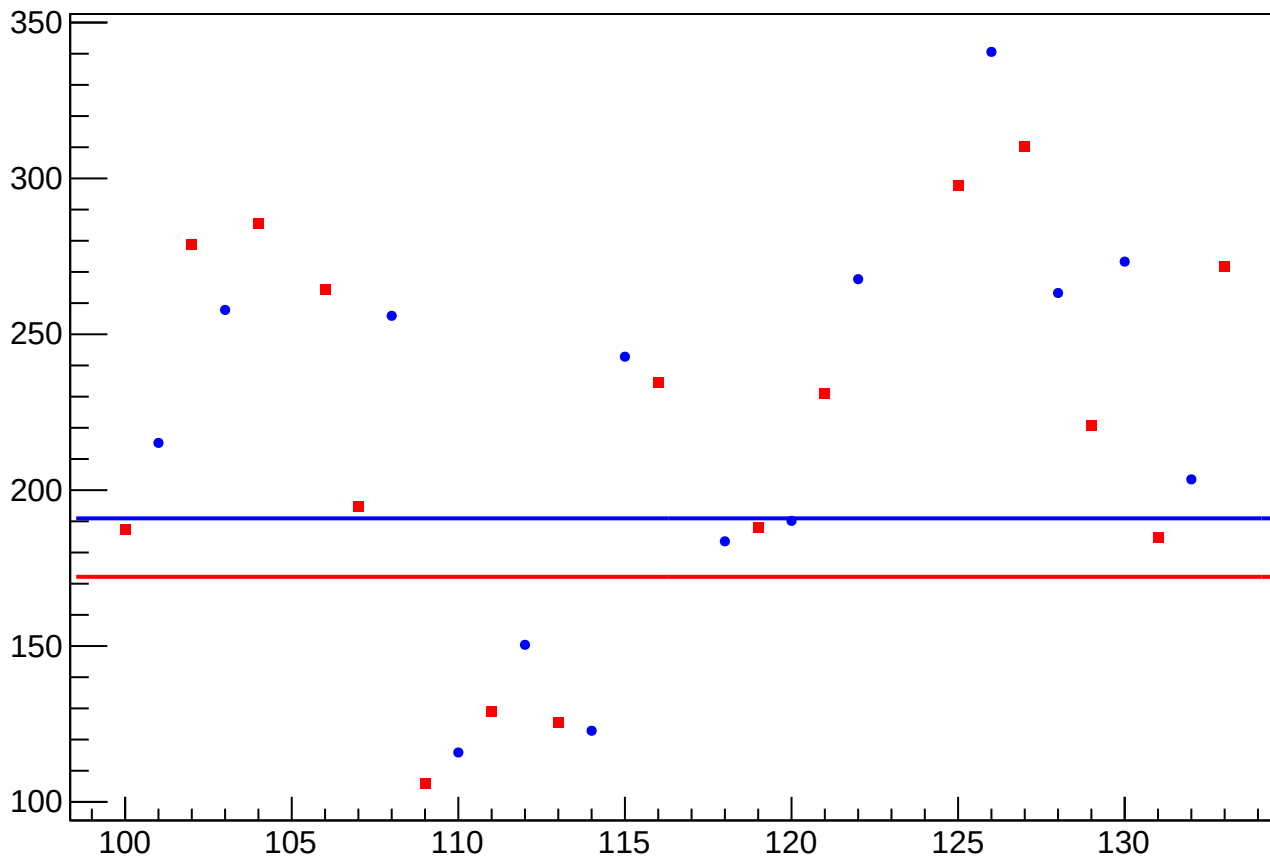
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.080+/-55.020  $\chi^2/\text{NDF}$ : 25.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_2an\_us\_an\_ds\_avg\_rms vs Slug



Right In: 190.958+/-0.059  $\chi^2/\text{NDF}$ : 980710.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 172.205+/-0.052  $\chi^2/\text{NDF}$ : 1576987.1/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

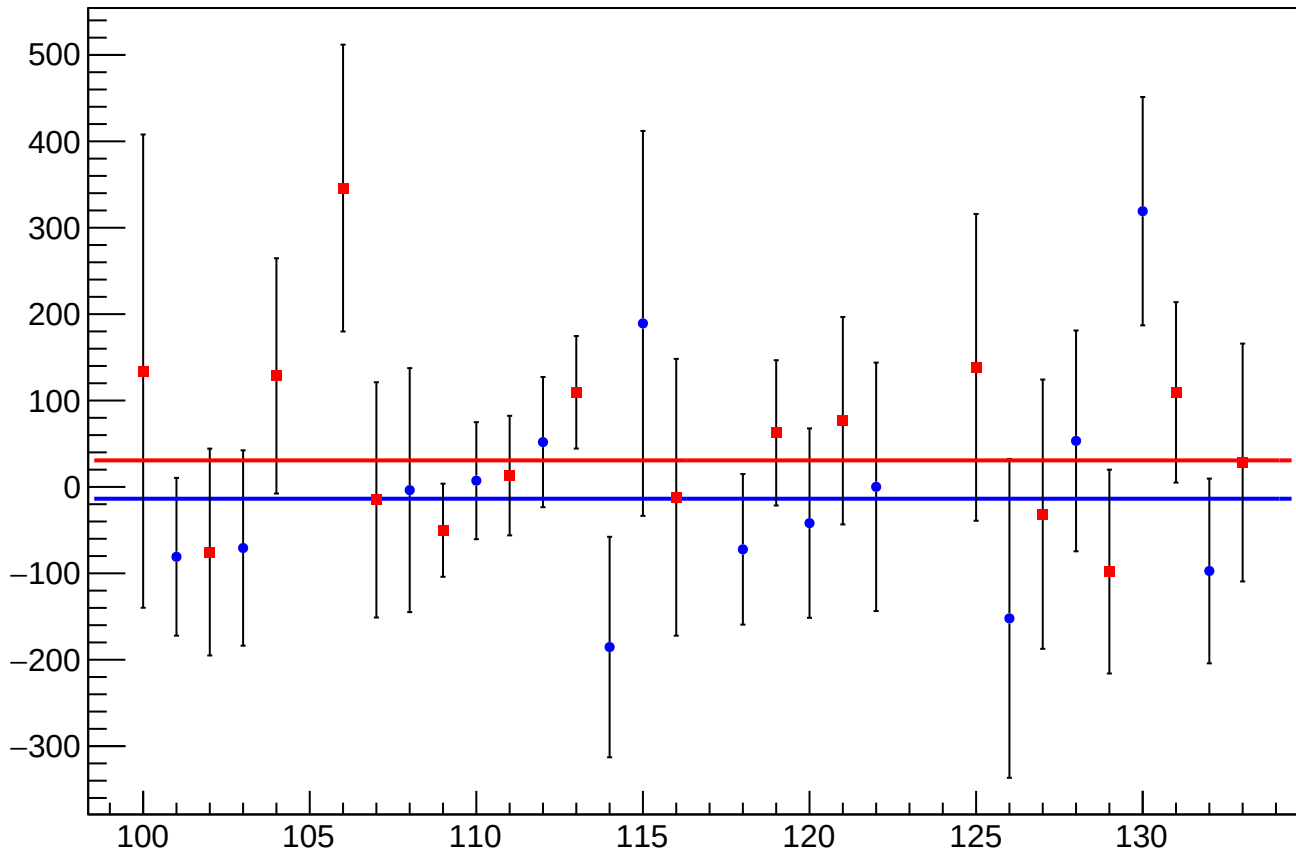
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 180.369+/-0.039  $\chi^2/\text{NDF}$ : 2614811.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bcm\_2an\_us\_an\_ds\_dd\_mean vs Slug



Right In:  $-13.648 \pm 28.596$   $\chi^2/\text{NDF}$ : 12.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $30.716 \pm 25.357$   $\chi^2/\text{NDF}$ : 11.6/15

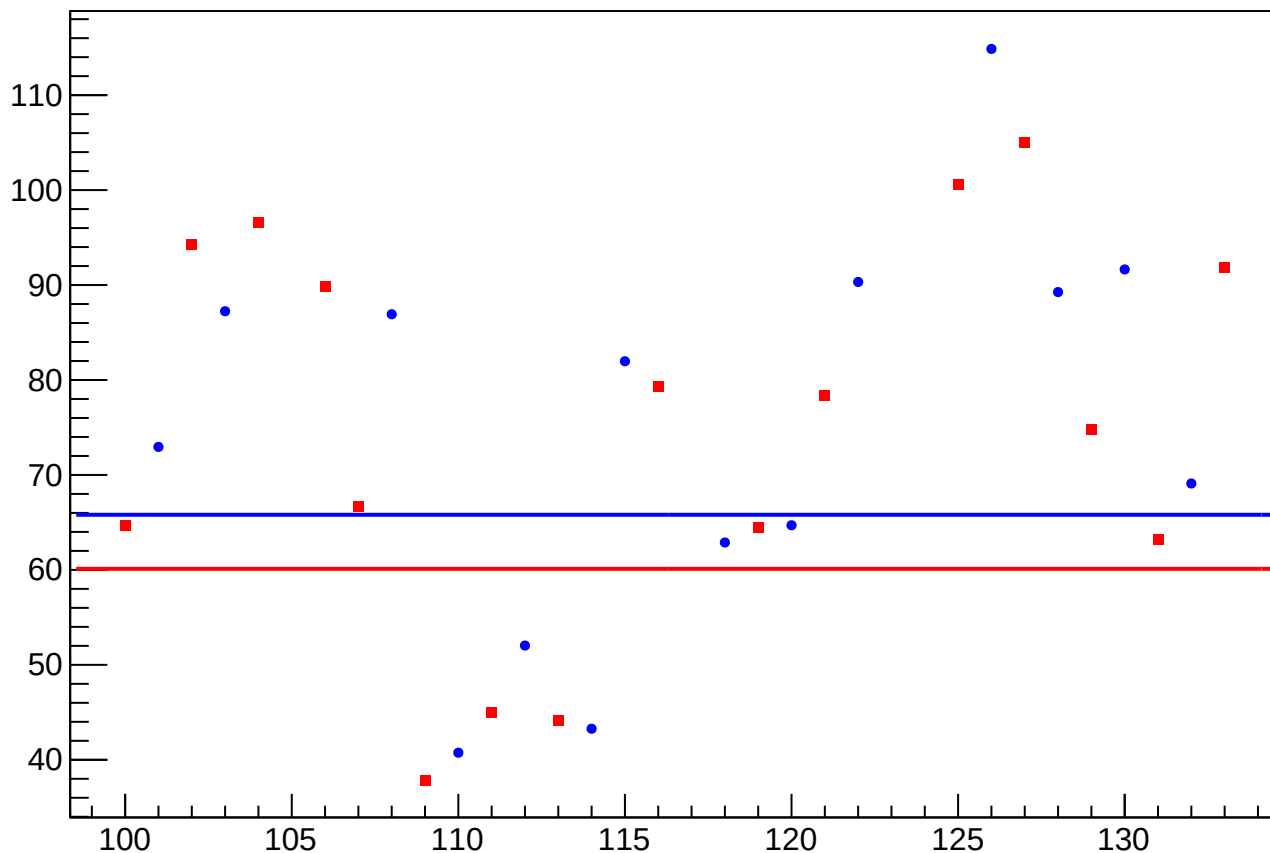
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $11.188 \pm 18.972$   $\chi^2/\text{NDF}$ : 25.6/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_2an\_us\_an\_ds\_dd\_rms vs Slug



Right In: 65.806+/-0.020  $\chi^2/\text{NDF}$ : 890230.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 60.115+/-0.018  $\chi^2/\text{NDF}$ : 1424035.8/15

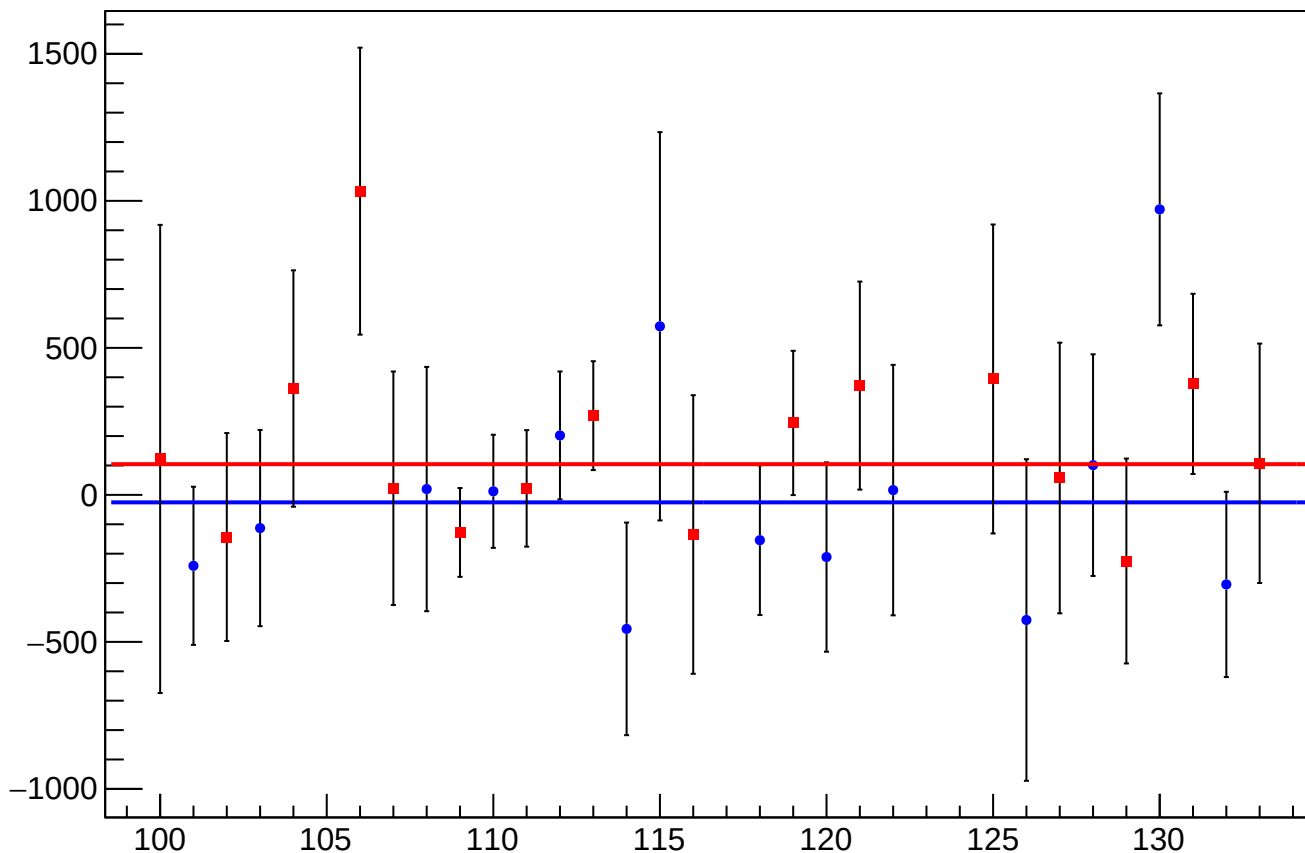
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 62.620+/-0.013  $\chi^2/\text{NDF}$ : 2358619.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_an\_ds\_avg\_mean vs Slug



Right In: -25.494 $\pm$ 83.294  $\chi^2$ /NDF: 12.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 104.433 $\pm$ 73.113  $\chi^2$ /NDF: 11.0/15

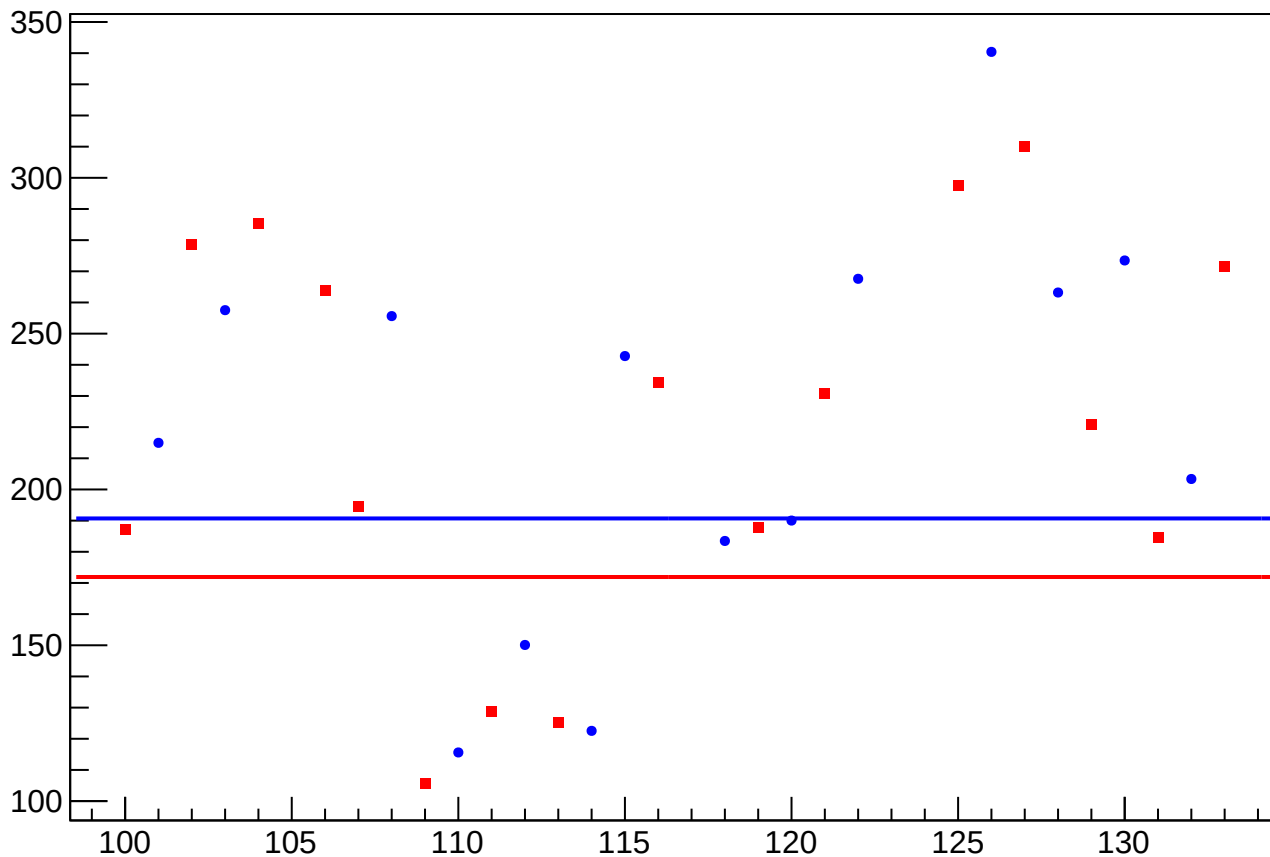
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.891 $\pm$ 54.948  $\chi^2$ /NDF: 24.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_us\_an\_ds\_avg\_rms vs Slug



Right In: 190.699+/-0.059  $\chi^2/\text{NDF}$ : 984999.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 171.910+/-0.052  $\chi^2/\text{NDF}$ : 1582577.8/15

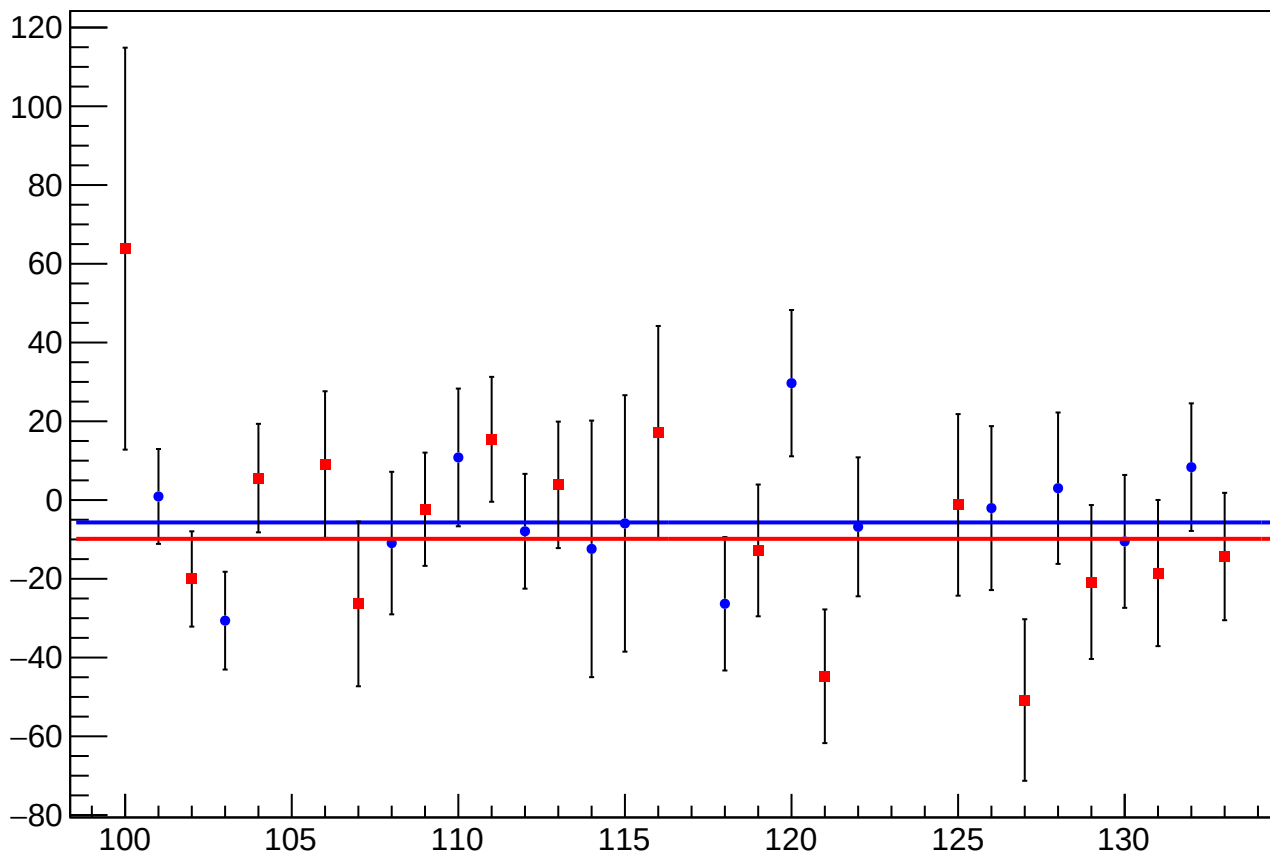
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 180.087+/-0.039  $\chi^2/\text{NDF}$ : 2625060.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_an\_ds\_dd\_mean vs Slug



Right In: -5.684+/-4.554  $\chi^2/\text{NDF}$ : 11.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9.848+/-4.370  $\chi^2/\text{NDF}$ : 19.2/15

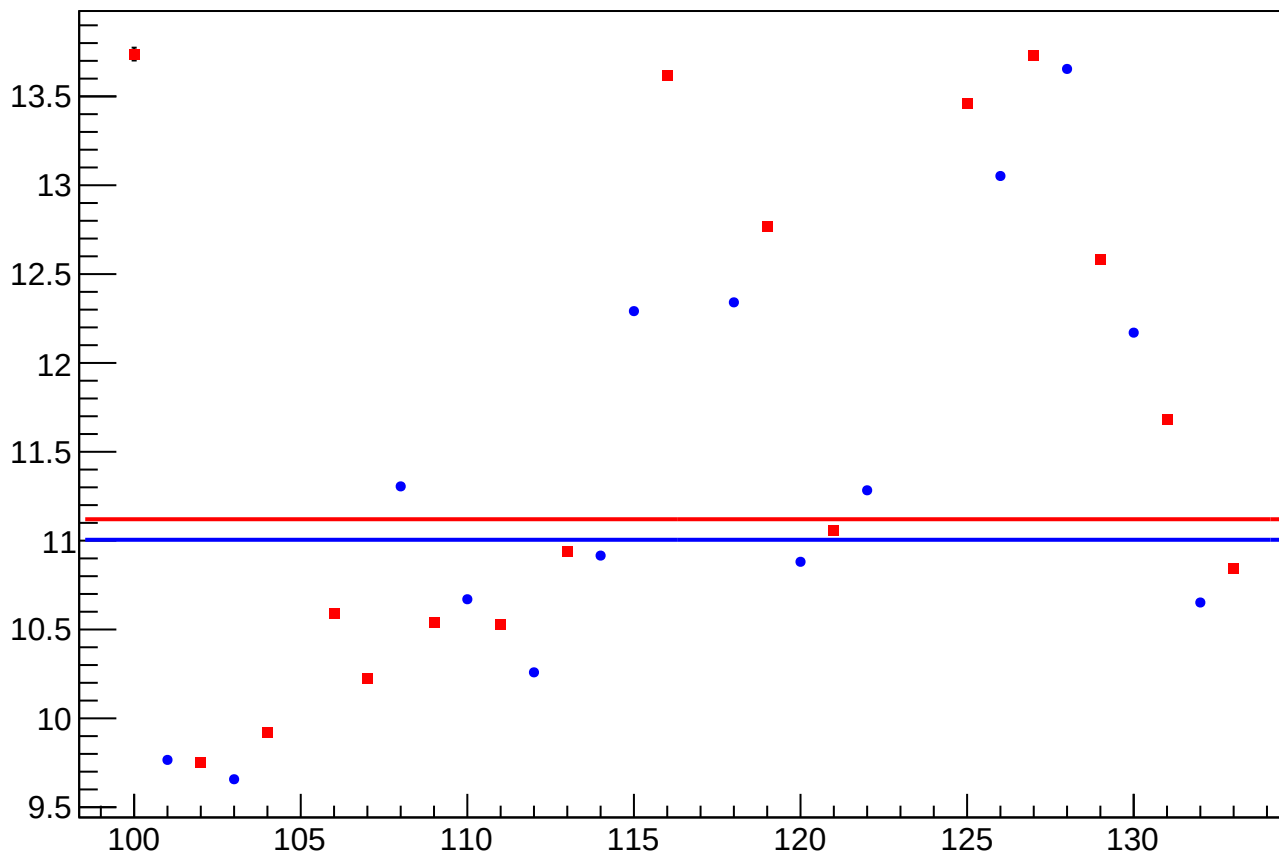
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.852+/-3.153  $\chi^2/\text{NDF}$ : 31.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_an\_ds\_dd\_rms vs Slug



Right In: 11.005+/-0.003  $\chi^2/\text{NDF}$ : 135210.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11.120+/-0.003  $\chi^2/\text{NDF}$ : 160732.6/15

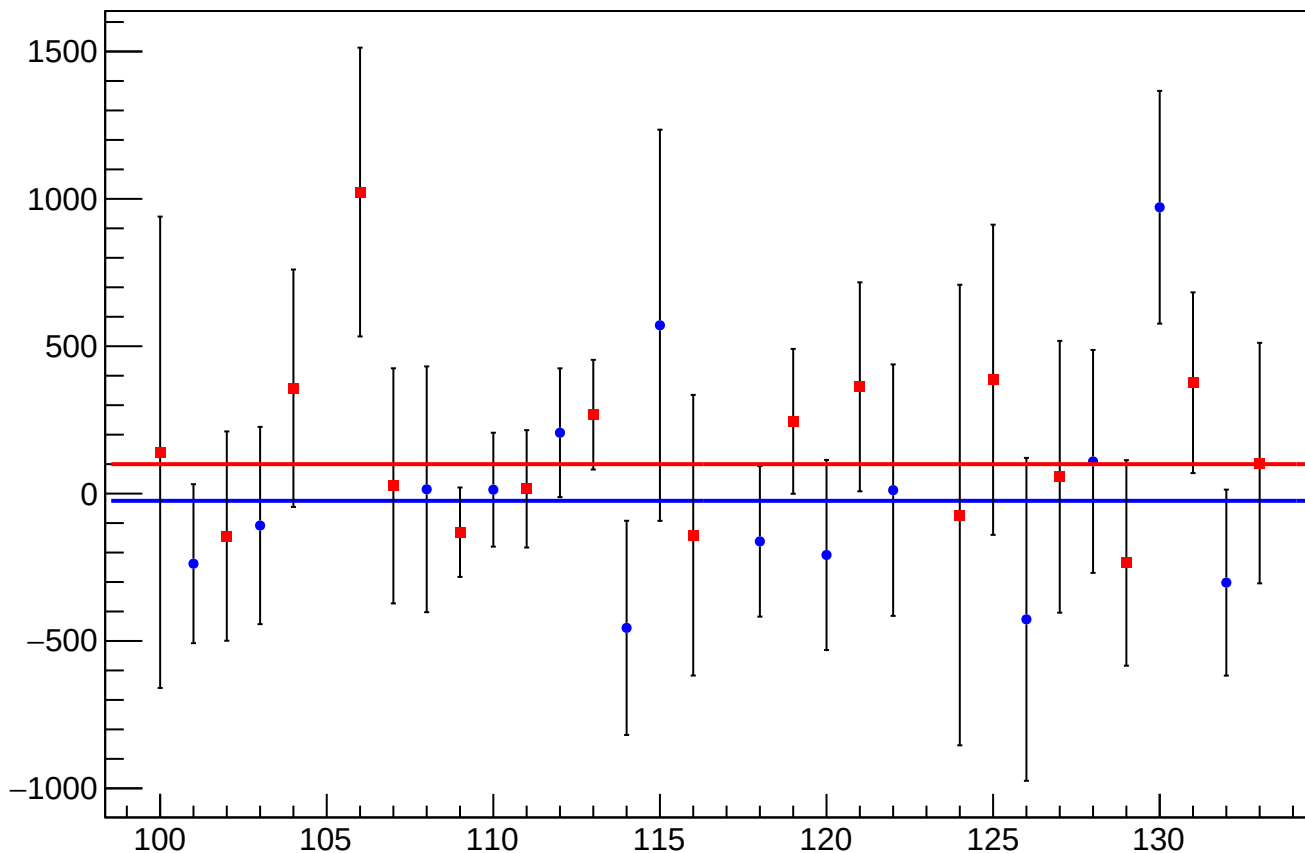
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11.065+/-0.002  $\chi^2/\text{NDF}$ : 296614.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_an\_ds3\_avg\_mean vs Slug



Right In:  $-24.484 \pm 83.562$   $\chi^2/\text{NDF}$ : 12.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $99.886 \pm 73.042$   $\chi^2/\text{NDF}$ : 11.0/16

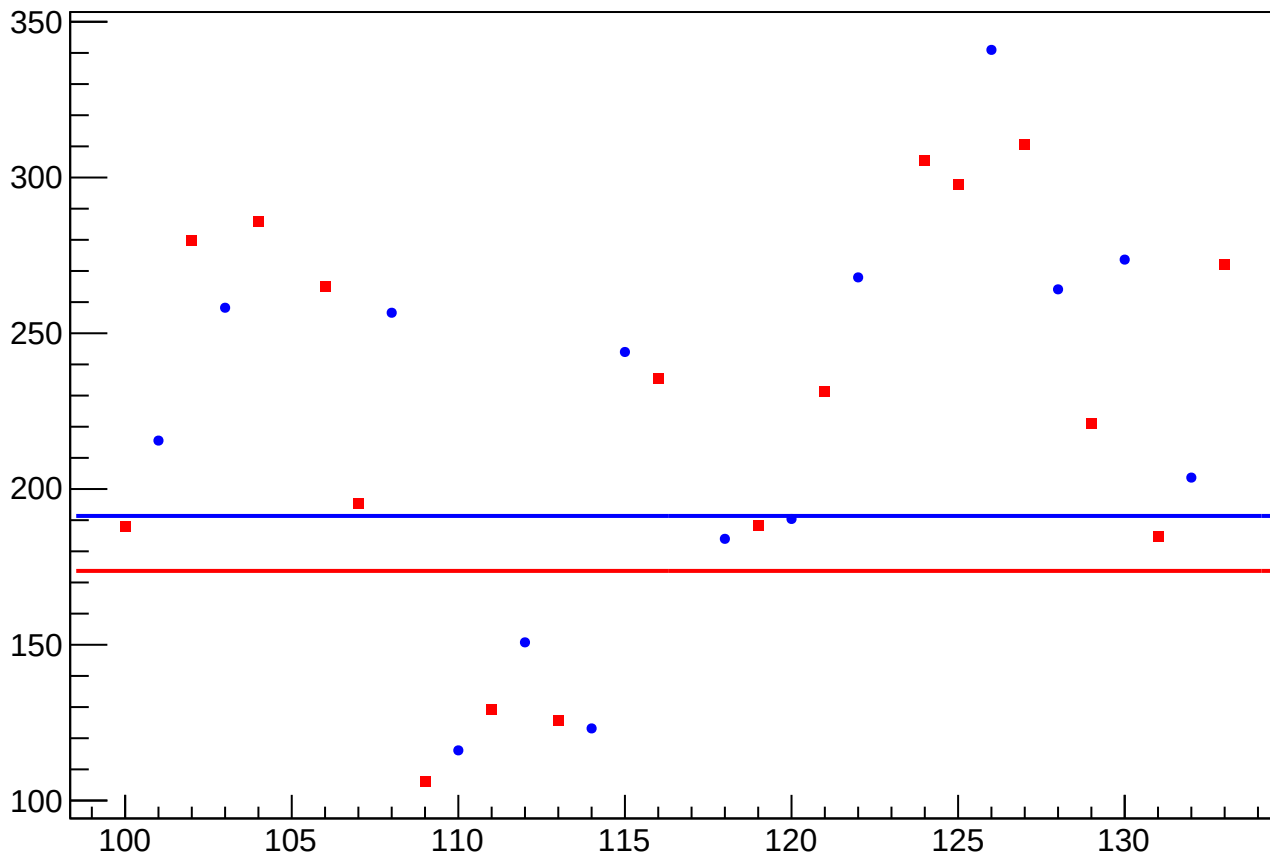
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $46.018 \pm 54.994$   $\chi^2/\text{NDF}$ : 24.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_an\_ds3\_avg\_rms vs Slug



Right In: 191.361+/-0.059  $\chi^2/\text{NDF}$ : 979480.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 173.714+/-0.052  $\chi^2/\text{NDF}$ : 1632634.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

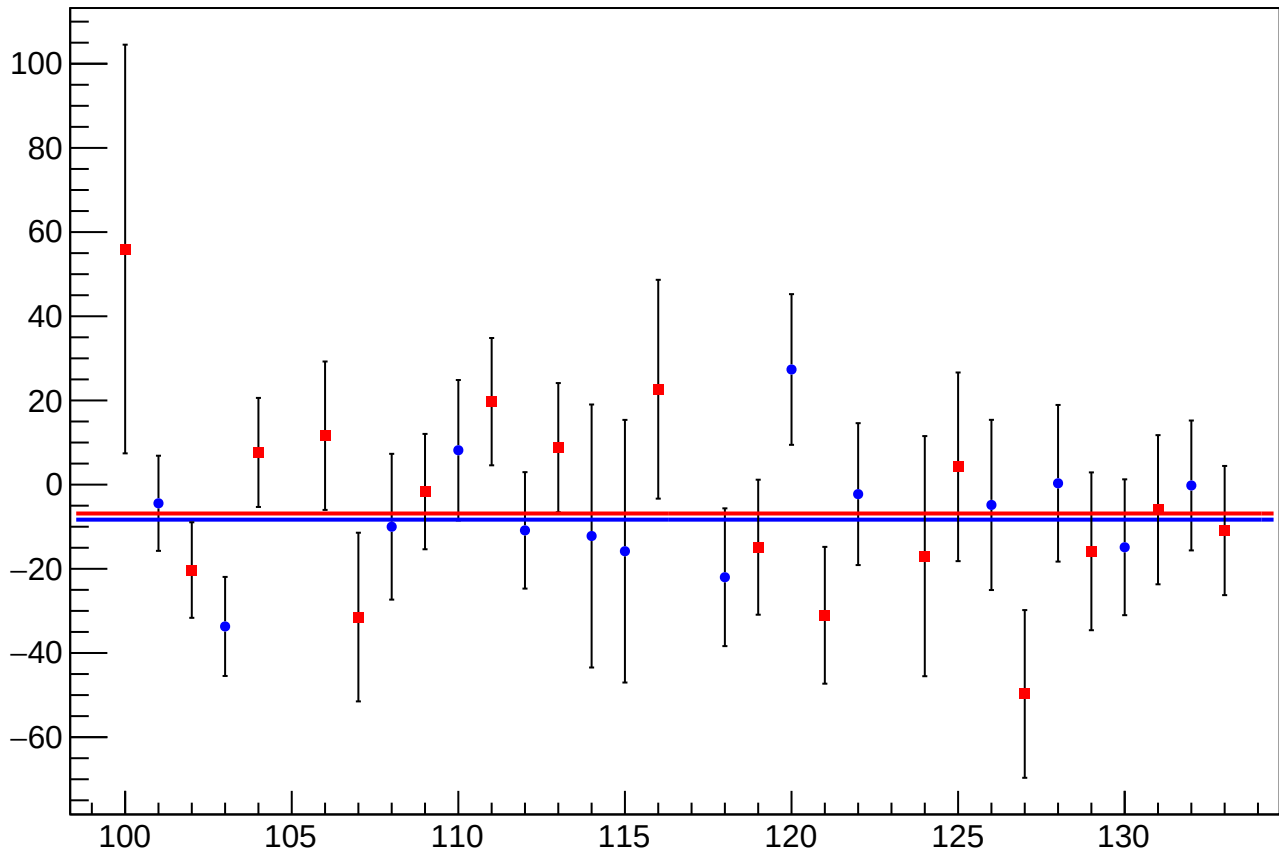
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 181.357+/-0.039  $\chi^2/\text{NDF}$ : 2662678.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bcm\_an\_us\_an\_ds3\_dd\_mean vs Slug



Right In: -8.321+/-4.344  $\chi^2/\text{NDF}$ : 11.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.860+/-4.118  $\chi^2/\text{NDF}$ : 20.3/16

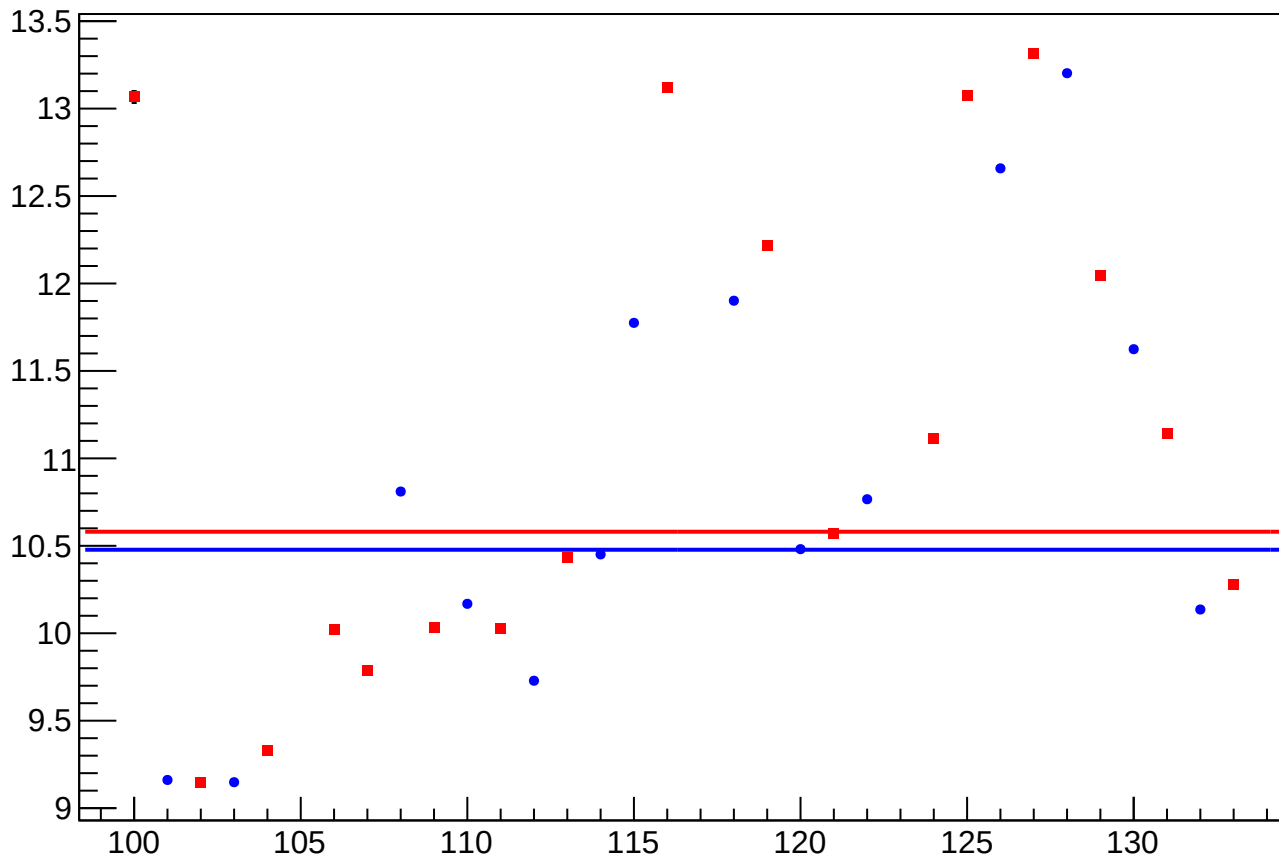
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.552+/-2.989  $\chi^2/\text{NDF}$ : 31.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_us\_an\_ds3\_dd\_rms vs Slug



Right In: 10.478+/-0.003  $\chi^2/\text{NDF}$ : 156342.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.581+/-0.003  $\chi^2/\text{NDF}$ : 185124.3/16

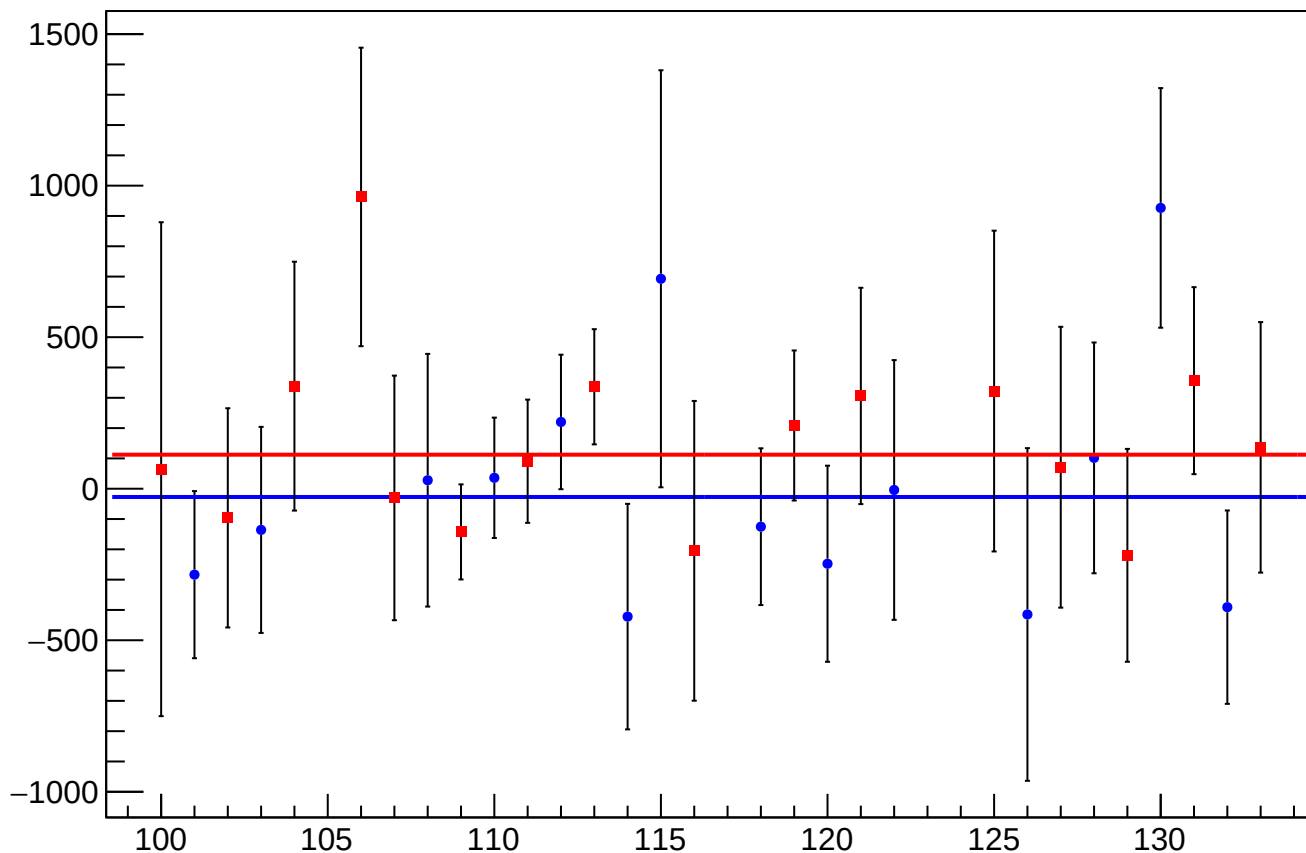
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.532+/-0.002  $\chi^2/\text{NDF}$ : 342058.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_dg\_ds\_avg\_mean vs Slug



Right In:  $-27.274 \pm 84.833$   $\chi^2/\text{NDF}$ : 12.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $112.298 \pm 74.781$   $\chi^2/\text{NDF}$ : 10.3/15

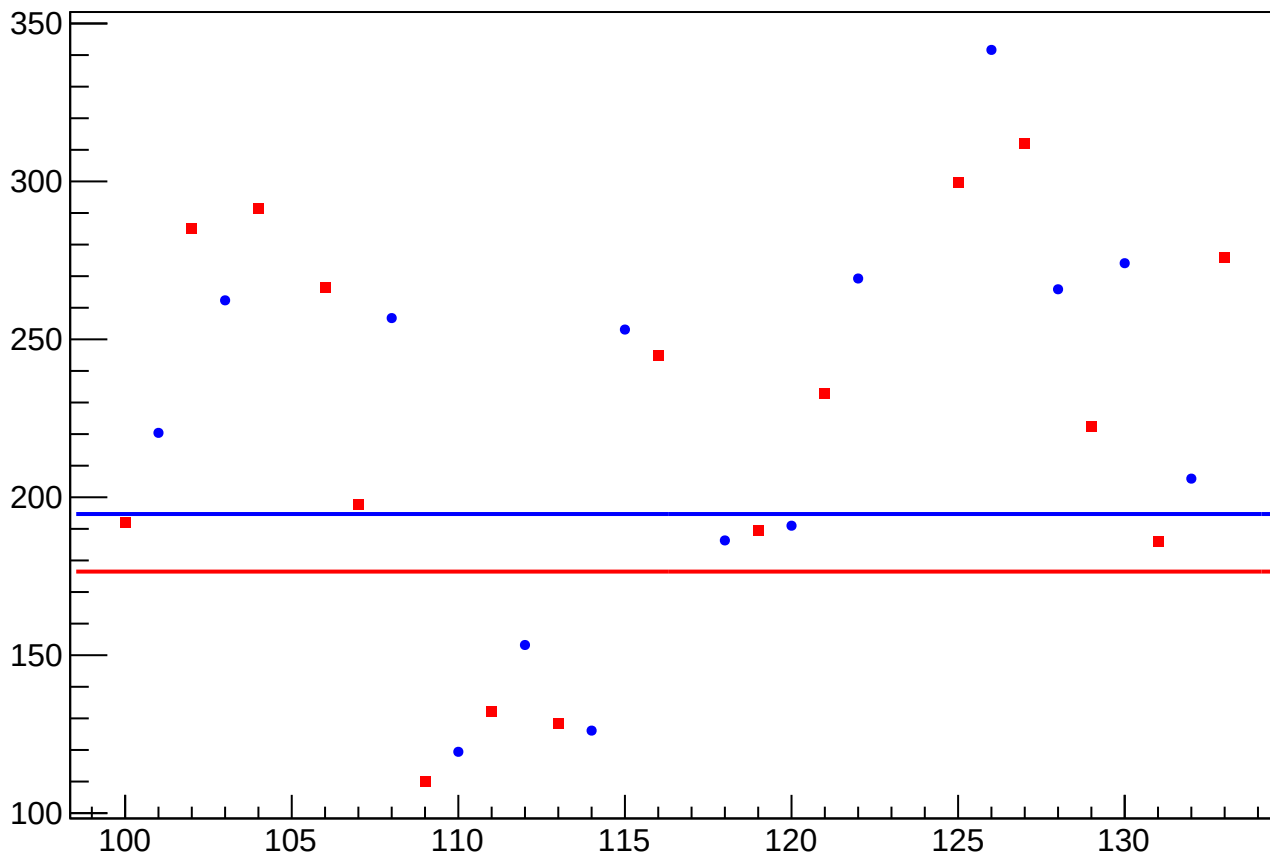
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $51.266 \pm 56.097$   $\chi^2/\text{NDF}$ : 24.8/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_dg\_ds\_avg\_rms vs Slug



Right In: 194.698+/-0.060  $\chi^2/\text{NDF}$ : 939772.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 176.473+/-0.053  $\chi^2/\text{NDF}$ : 1516333.0/15

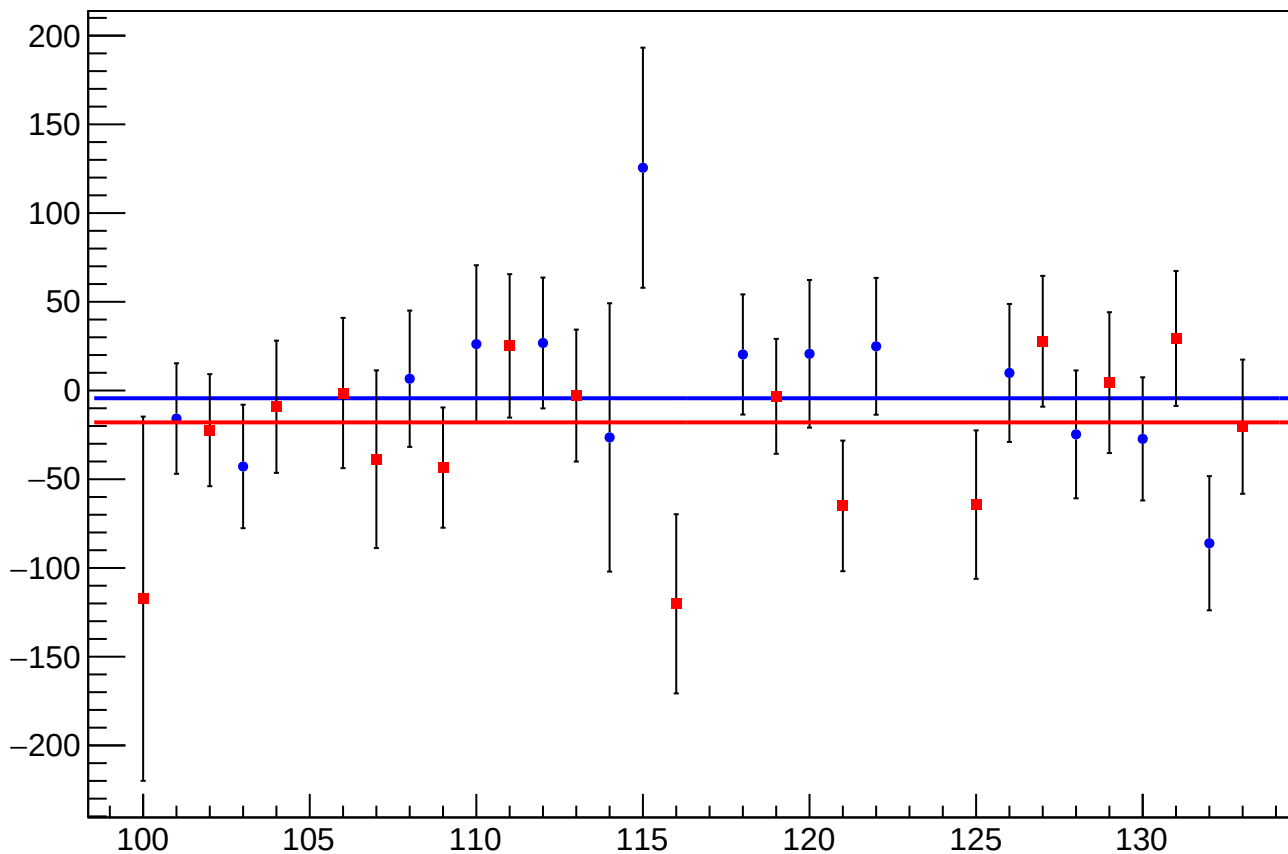
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 184.442+/-0.040  $\chi^2/\text{NDF}$ : 2508048.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_dg\_ds\_dd\_mean vs Slug



Right In: -4.350+/-10.394  $\chi^2/\text{NDF}$ : 13.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -17.949+/-9.806  $\chi^2/\text{NDF}$ : 13.8/15

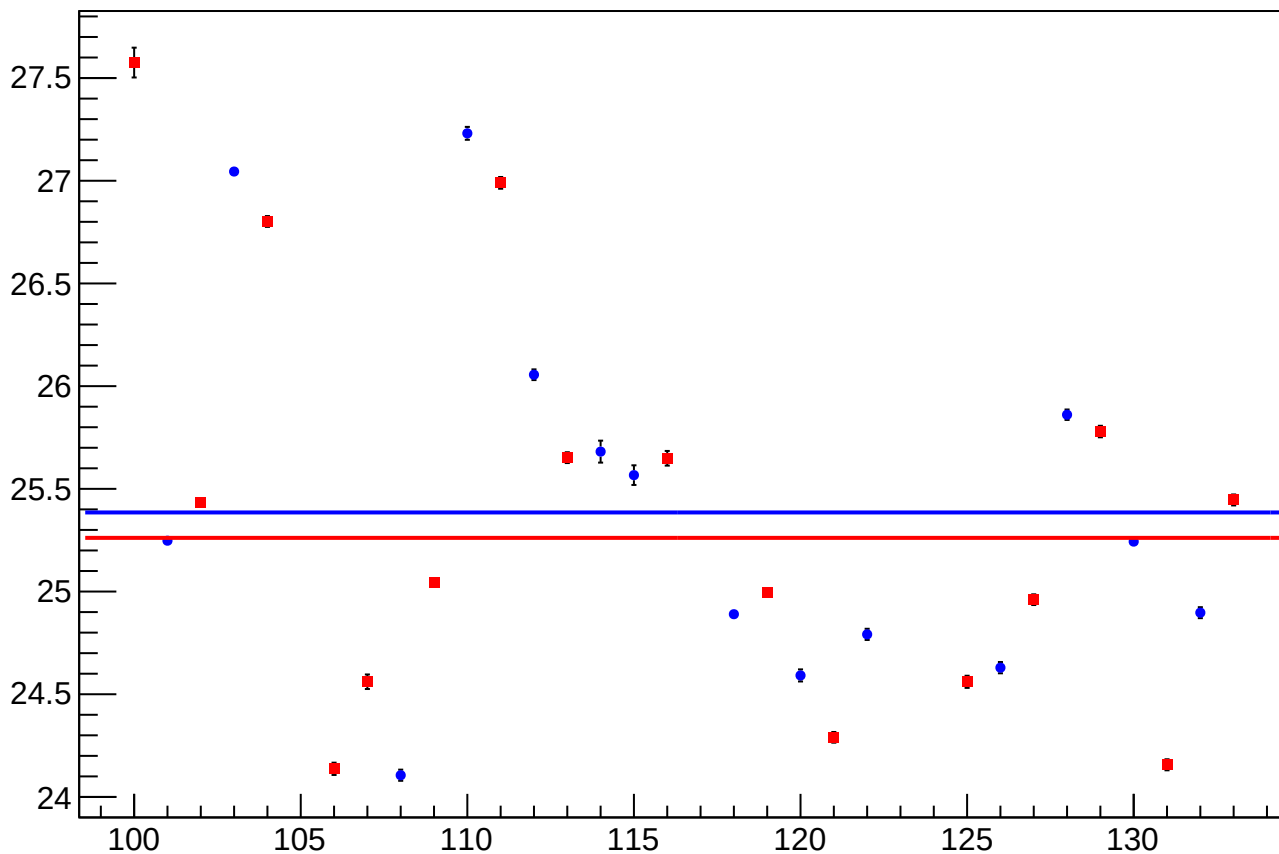
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -11.545+/-7.133  $\chi^2/\text{NDF}$ : 28.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_dg\_ds\_dd\_rms vs Slug



Right In: 25.385+/-0.007  $\chi^2/\text{NDF}$ : 14068.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.261+/-0.007  $\chi^2/\text{NDF}$ : 14675.1/15

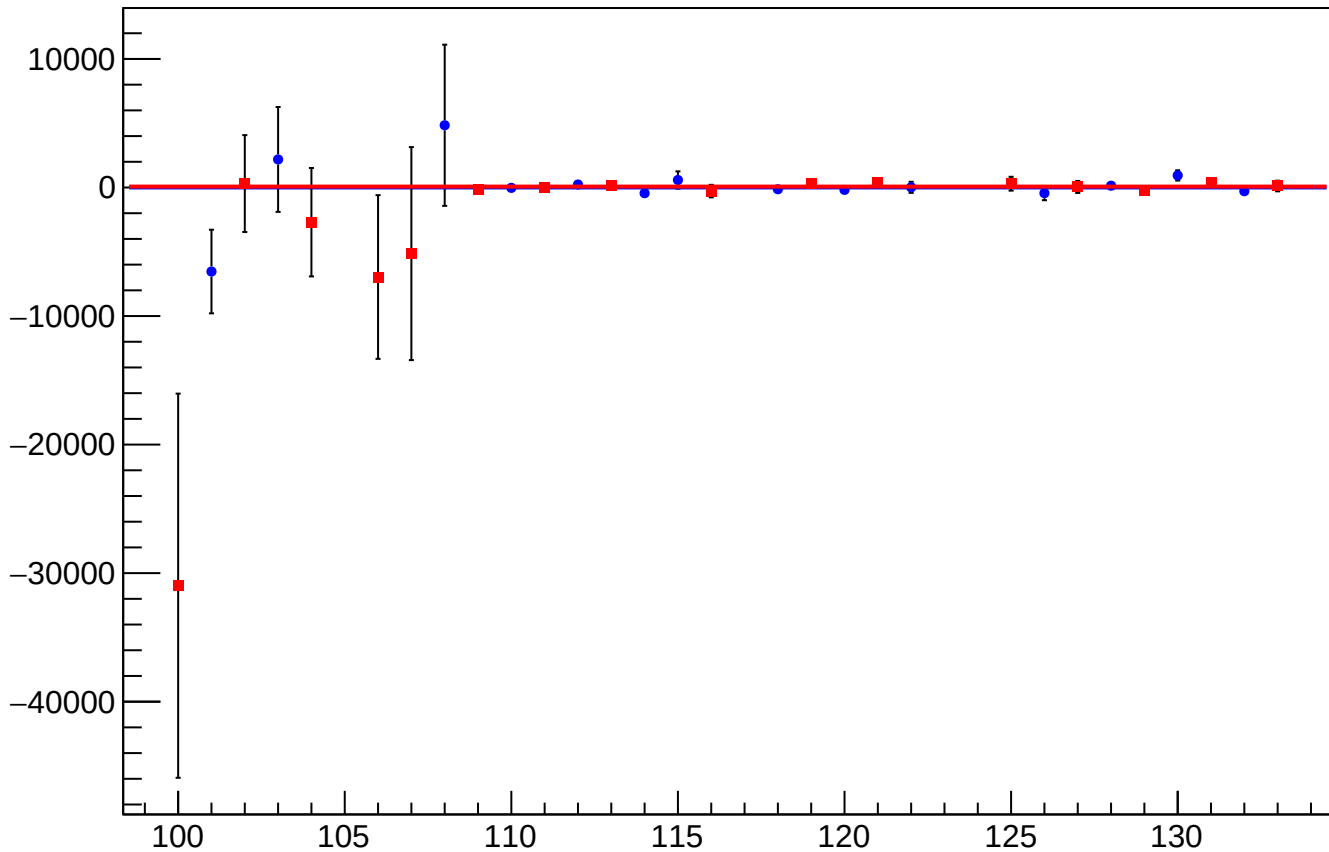
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.320+/-0.005  $\chi^2/\text{NDF}$ : 28893.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_cav4cQ\_an\_ds\_avg\_mean vs Slug



Right In: 5.153+/-93.981  $\chi^2$ /NDF: 16.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 71.326+/-85.424  $\chi^2$ /NDF: 12.0/15

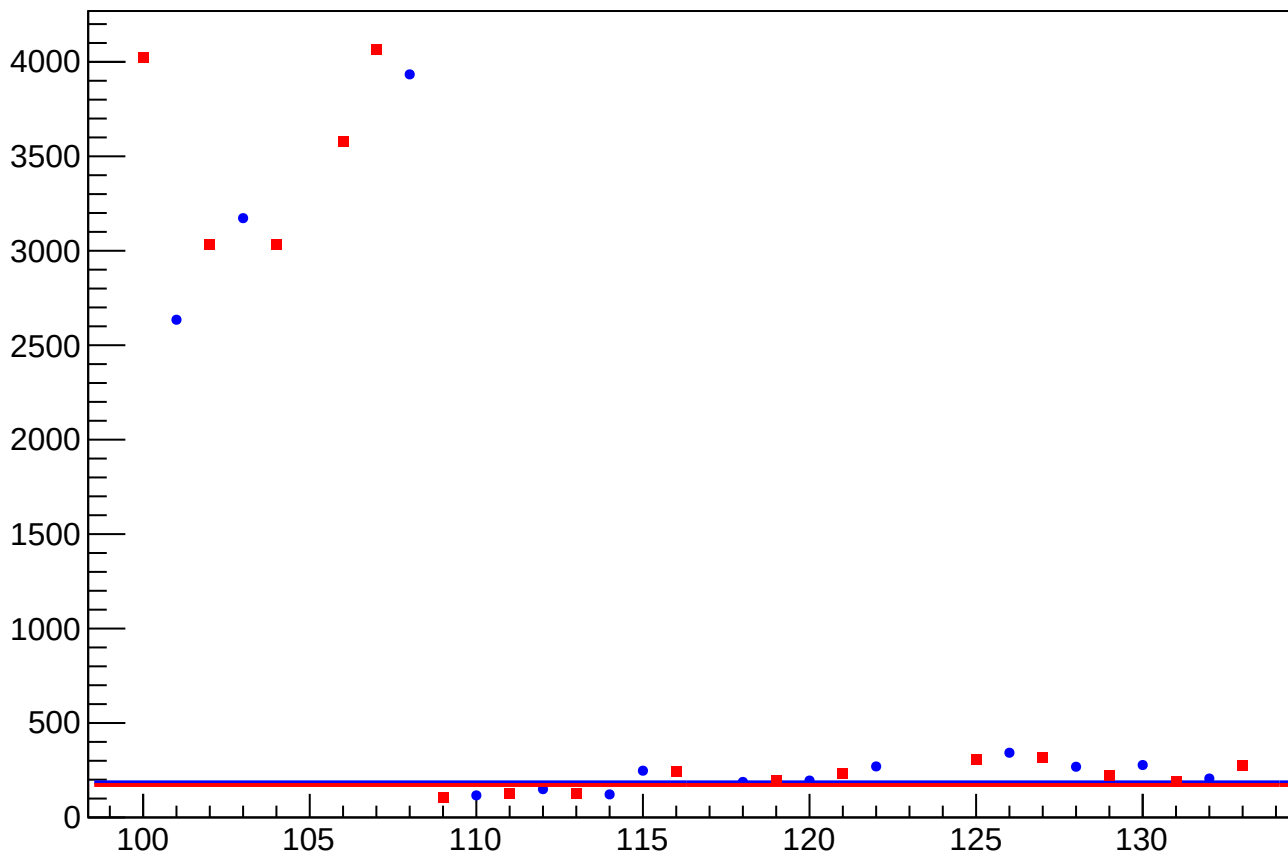
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 41.389+/-63.213  $\chi^2$ /NDF: 28.3/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_cav4cQ\_an\_ds\_avg\_rms vs Slug



Right In: 185.676 $\pm$ 0.066  $\chi^2$ /NDF: 3753244.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 172.073 $\pm$ 0.060  $\chi^2$ /NDF: 4240349.5/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

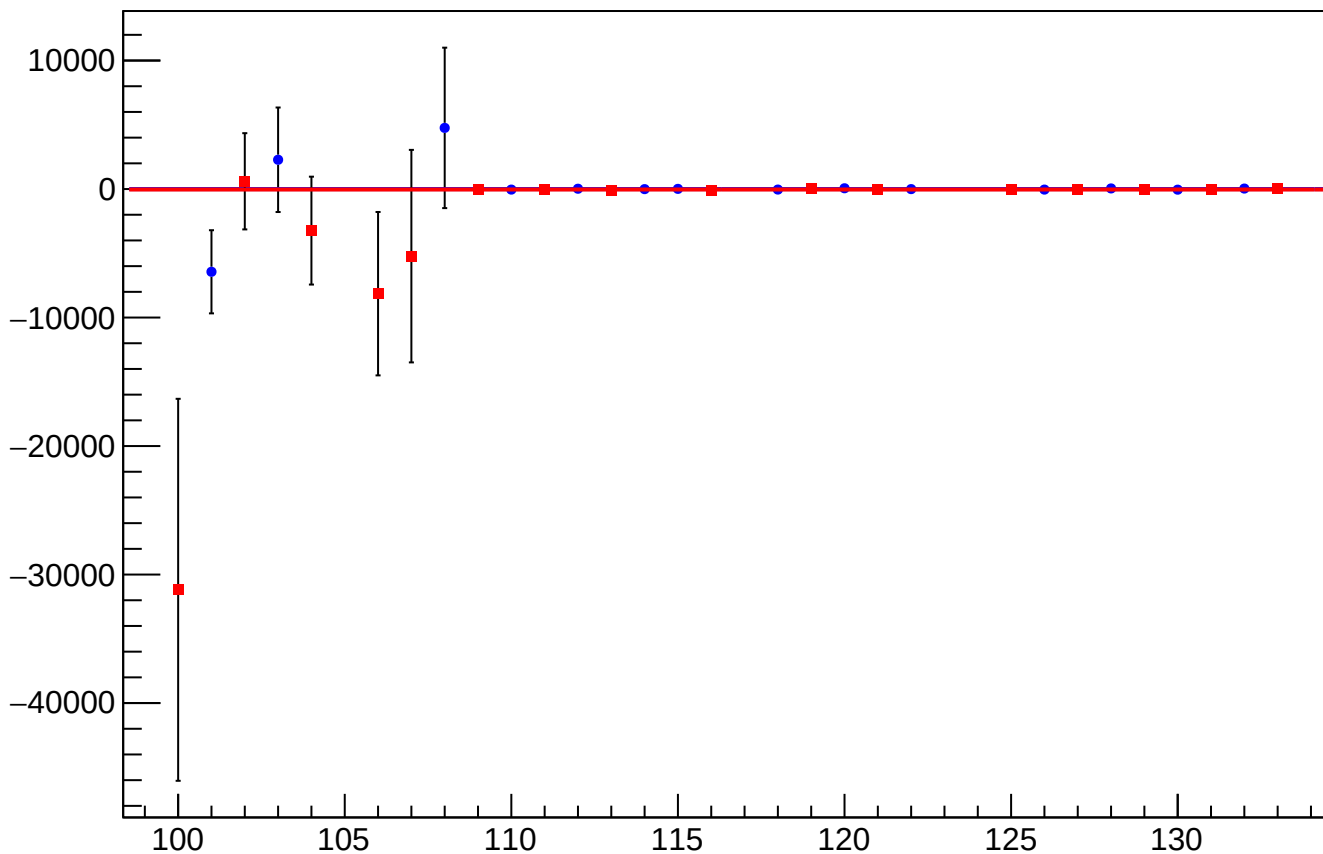
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 178.227 $\pm$ 0.045  $\chi^2$ /NDF: 8016538.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bcm\_cav4cQ\_an\_ds\_dd\_mean vs Slug



Right In: -3.431+/-13.436  $\chi^2/\text{NDF}$ : 13.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -36.069+/-13.084  $\chi^2/\text{NDF}$ : 17.8/15

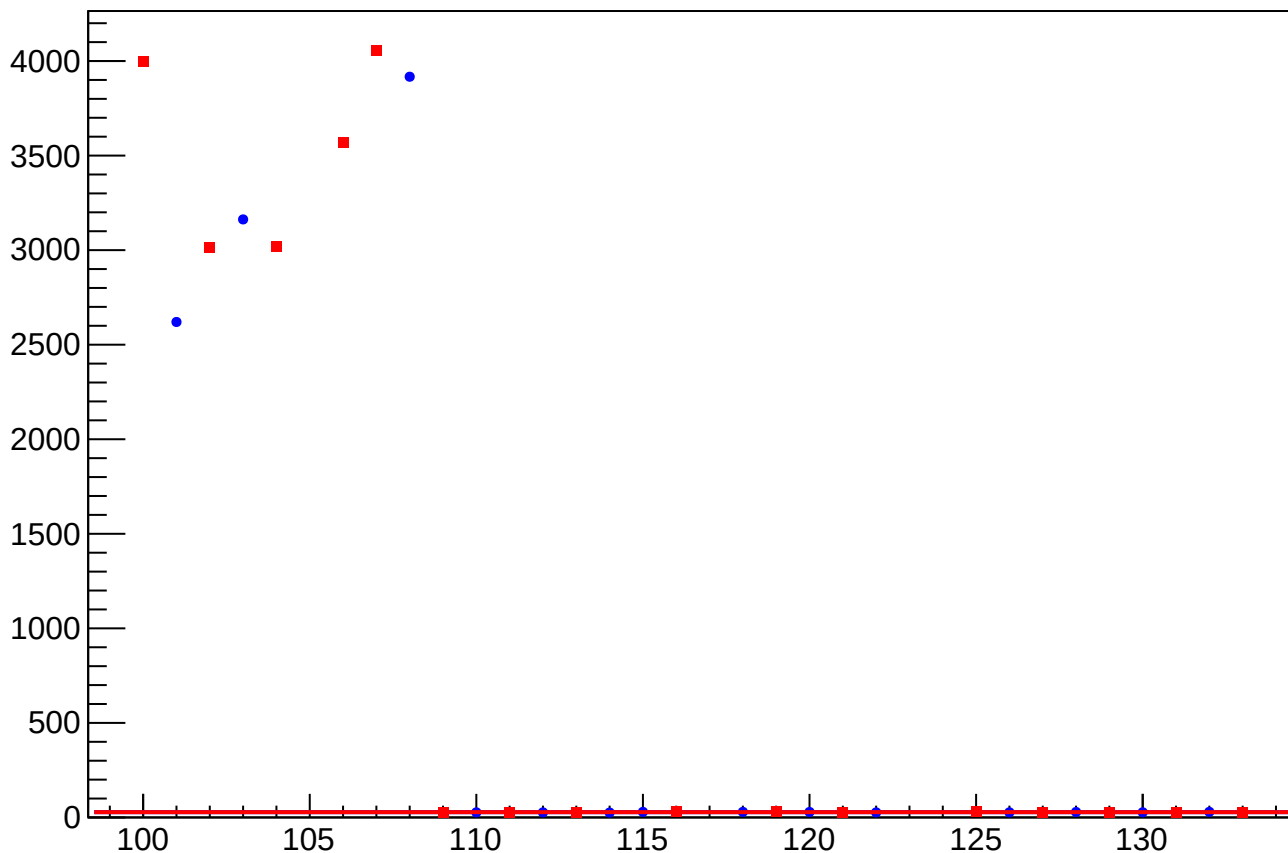
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -20.183+/-9.374  $\chi^2/\text{NDF}$ : 34.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_cav4cQ\_an\_ds\_dd\_rms vs Slug



Right In: 27.956+/-0.010  $\chi^2/\text{NDF}$ : 3264492.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27.985+/-0.009  $\chi^2/\text{NDF}$ : 3554784.1/15

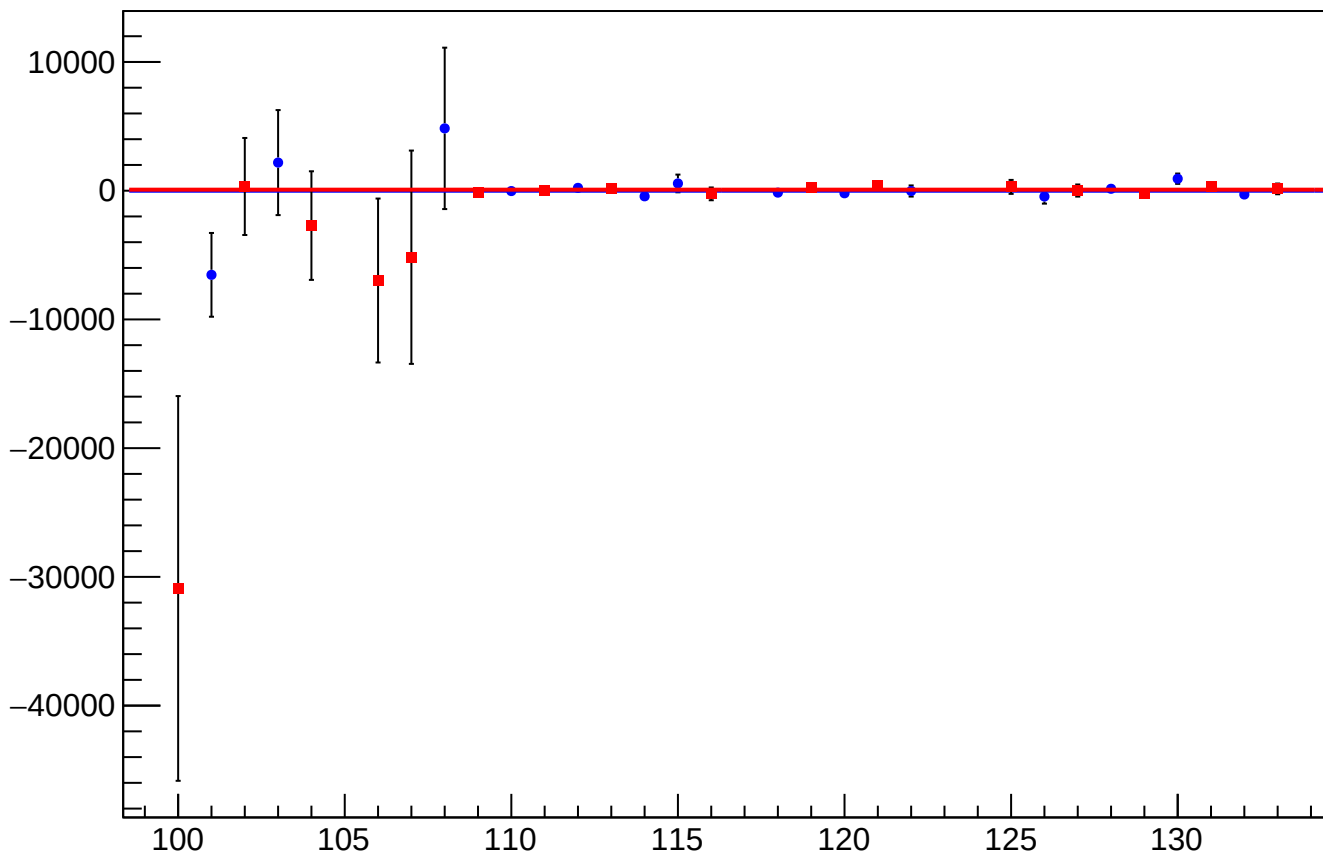
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.971+/-0.007  $\chi^2/\text{NDF}$ : 6819280.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_cav4cQ\_dg\_ds\_avg\_mean vs Slug



Right In: -2.001+/-94.690  $\chi^2/\text{NDF}$ : 15.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 79.420+/-86.156  $\chi^2/\text{NDF}$ : 11.5/15

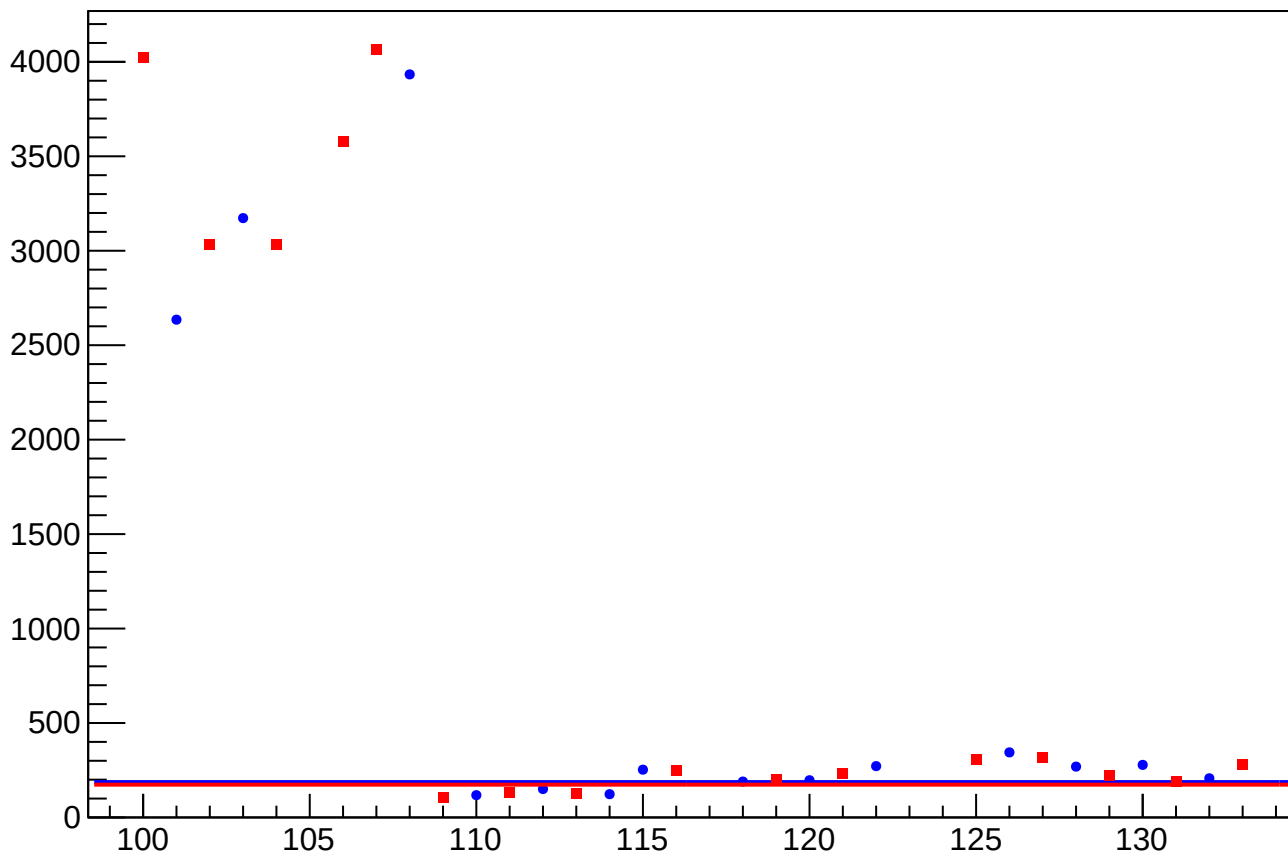
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 42.543+/-63.726  $\chi^2/\text{NDF}$ : 27.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_cav4cQ\_dg\_ds\_avg\_rms vs Slug



Right In: 187.204 $\pm$ 0.067  $\chi^2$ /NDF: 3743378.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 173.685 $\pm$ 0.061  $\chi^2$ /NDF: 4231935.6/15

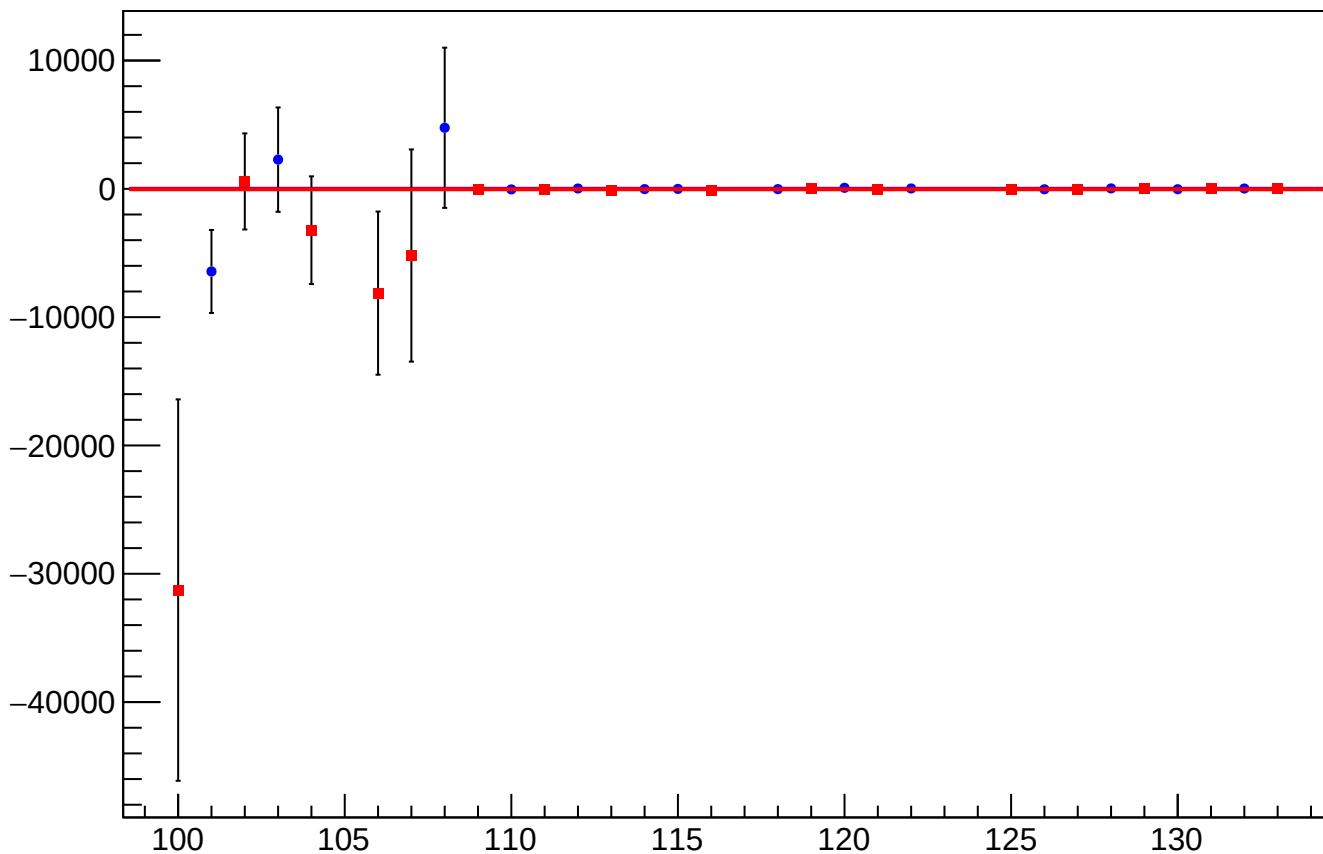
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 179.808 $\pm$ 0.045  $\chi^2$ /NDF: 7997617.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_cav4cQ\_dg\_ds\_dd\_mean vs Slug



Right In: 3.912+/-14.924  $\chi^2$ /NDF: 10.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -32.395+/-14.483  $\chi^2$ /NDF: 21.3/15

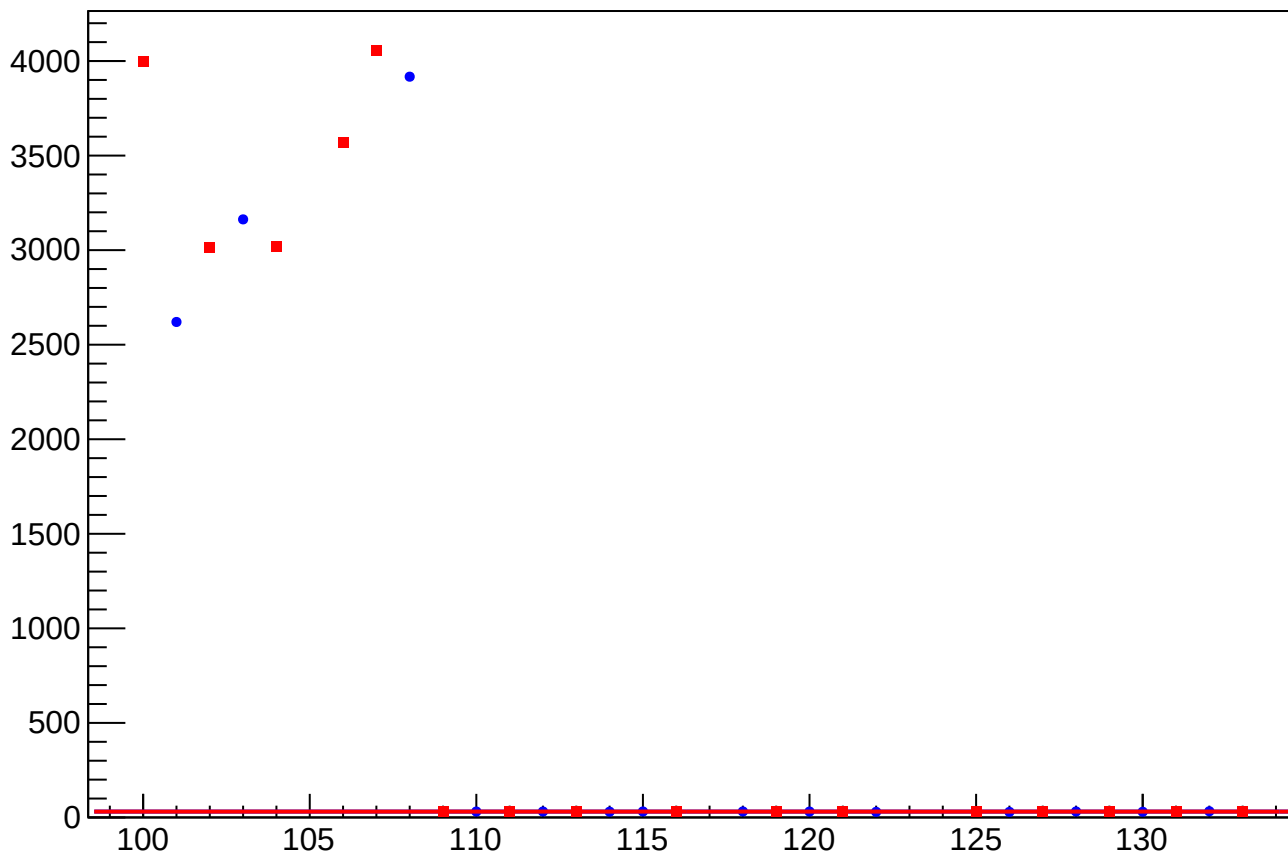
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -14.785+/-10.393  $\chi^2$ /NDF: 35.3/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_cav4cQ\_dg\_ds\_dd\_rms vs Slug



Right In: 31.091+/-0.011  $\chi^2/\text{NDF}$ : 3251310.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.025+/-0.010  $\chi^2/\text{NDF}$ : 3532664.3/15

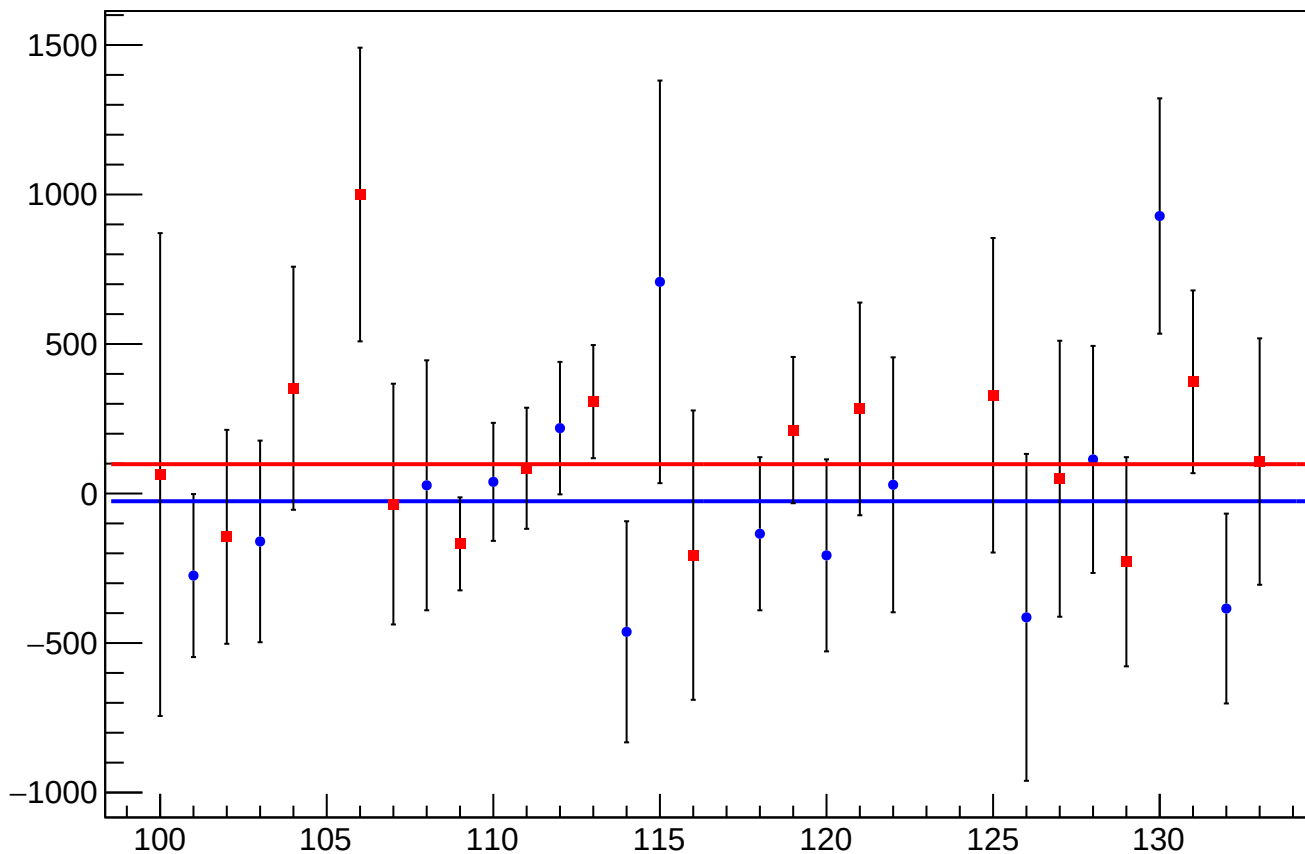
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.057+/-0.007  $\chi^2/\text{NDF}$ : 6783994.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_us\_an\_us\_avg\_mean vs Slug



Right In:  $-25.778 \pm 84.312$   $\chi^2/\text{NDF}$ : 13.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $98.149 \pm 74.255$   $\chi^2/\text{NDF}$ : 11.3/15

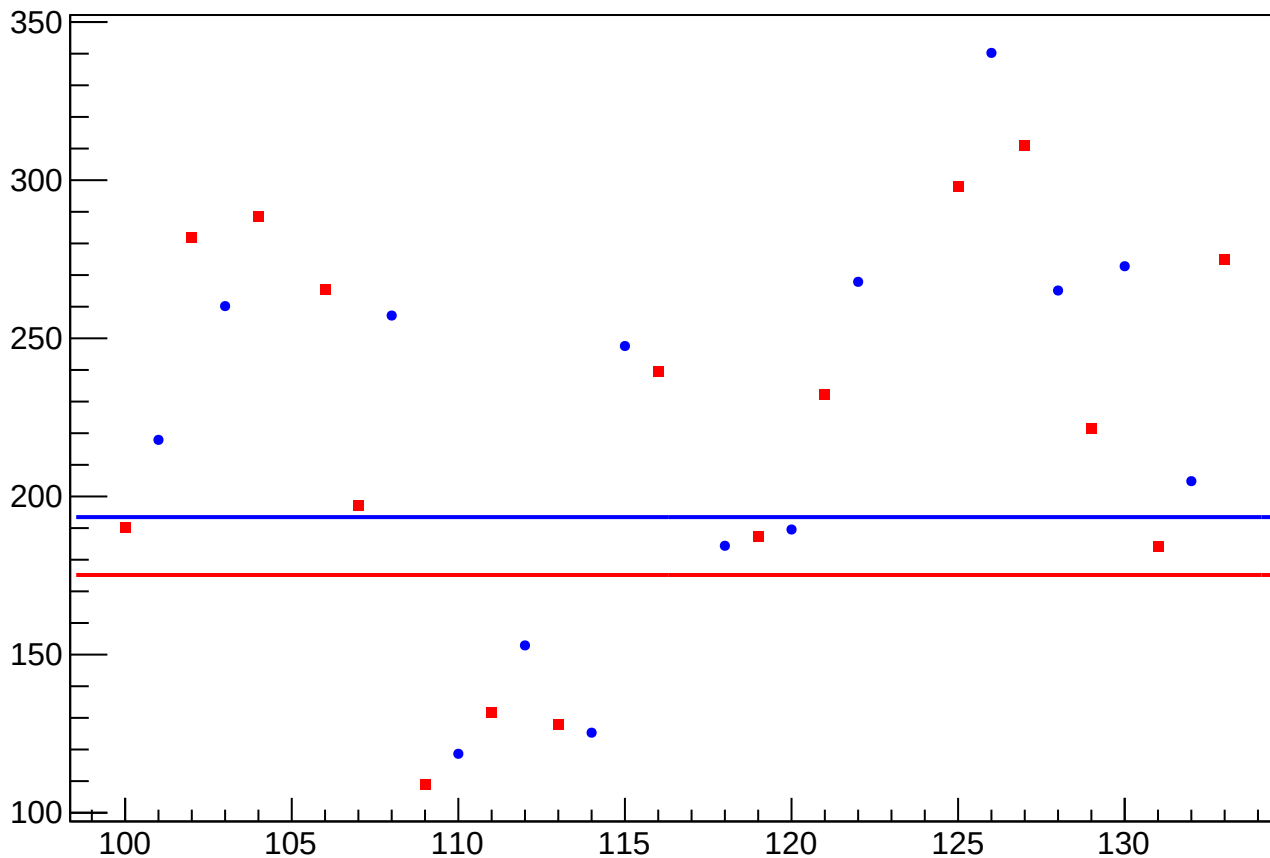
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $44.013 \pm 55.725$   $\chi^2/\text{NDF}$ : 25.7/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_an\_us\_avg\_rms vs Slug



Right In: 193.474+/-0.060  $\chi^2/\text{NDF}$ : 939271.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 175.178+/-0.053  $\chi^2/\text{NDF}$ : 1515394.5/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

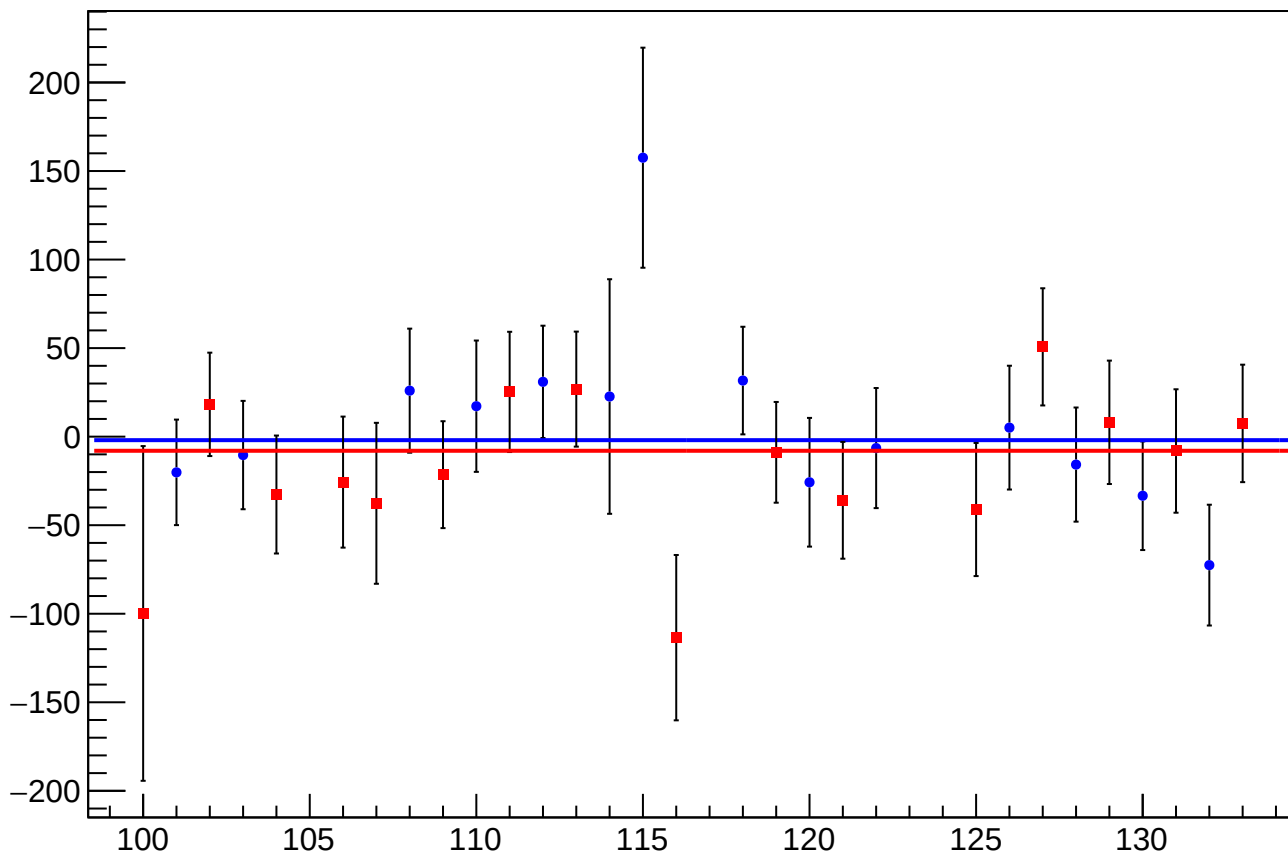
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 183.170+/-0.039  $\chi^2/\text{NDF}$ : 2507707.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bcm\_dg\_us\_an\_us\_dd\_mean vs Slug



Right In:  $-1.981 \pm 9.272$   $\chi^2/\text{NDF}$ : 16.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-7.973 \pm 8.735$   $\chi^2/\text{NDF}$ : 15.4/15

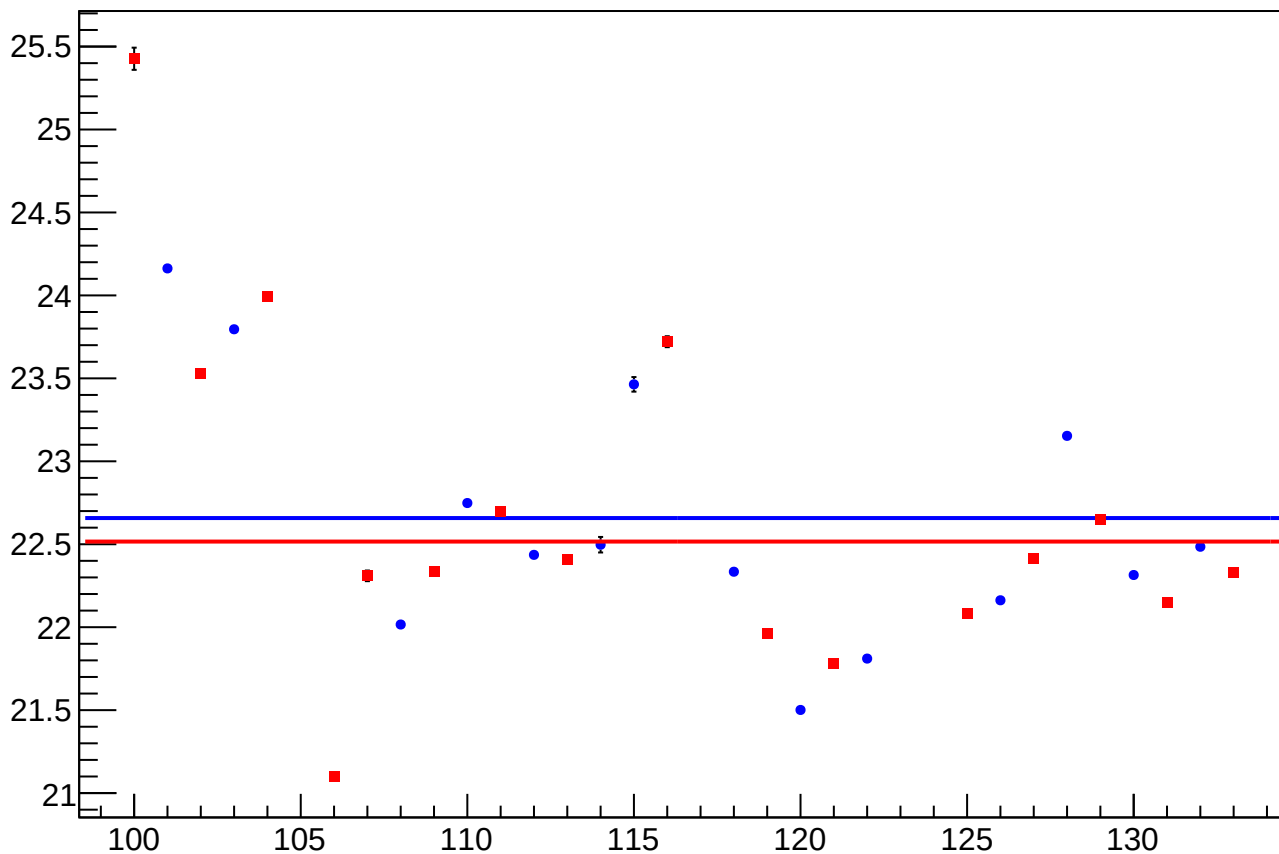
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.155 \pm 6.358$   $\chi^2/\text{NDF}$ : 32.1/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_an\_us\_dd\_rms vs Slug



Right In: 22.658+/-0.007  $\chi^2/\text{NDF}$ : 13675.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.516+/-0.006  $\chi^2/\text{NDF}$ : 15034.8/15

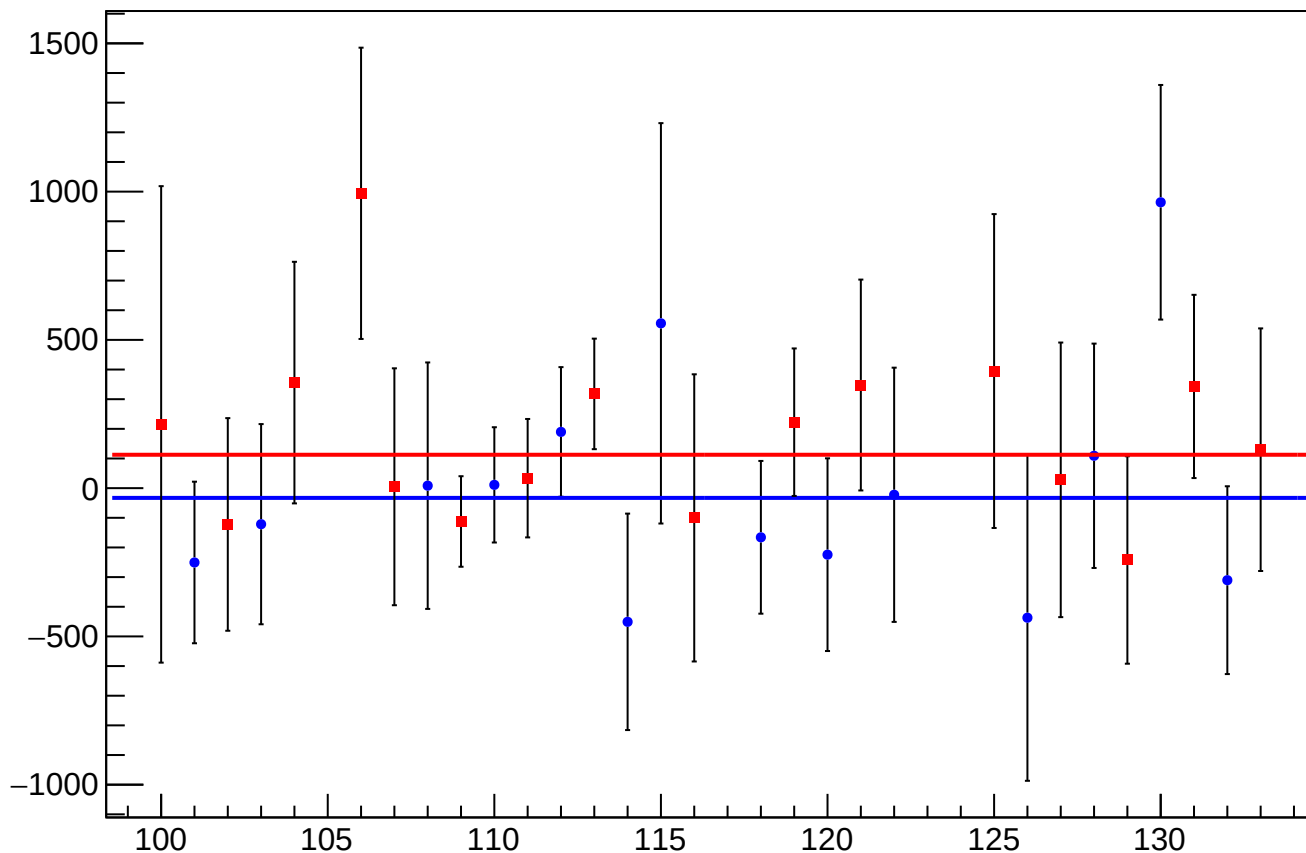
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.583+/-0.004  $\chi^2/\text{NDF}$ : 28958.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_us\_avg\_mean vs Slug



Right In: -32.841+/-83.978  $\chi^2/\text{NDF}$ : 12.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 112.618+/-73.774  $\chi^2/\text{NDF}$ : 10.4/15

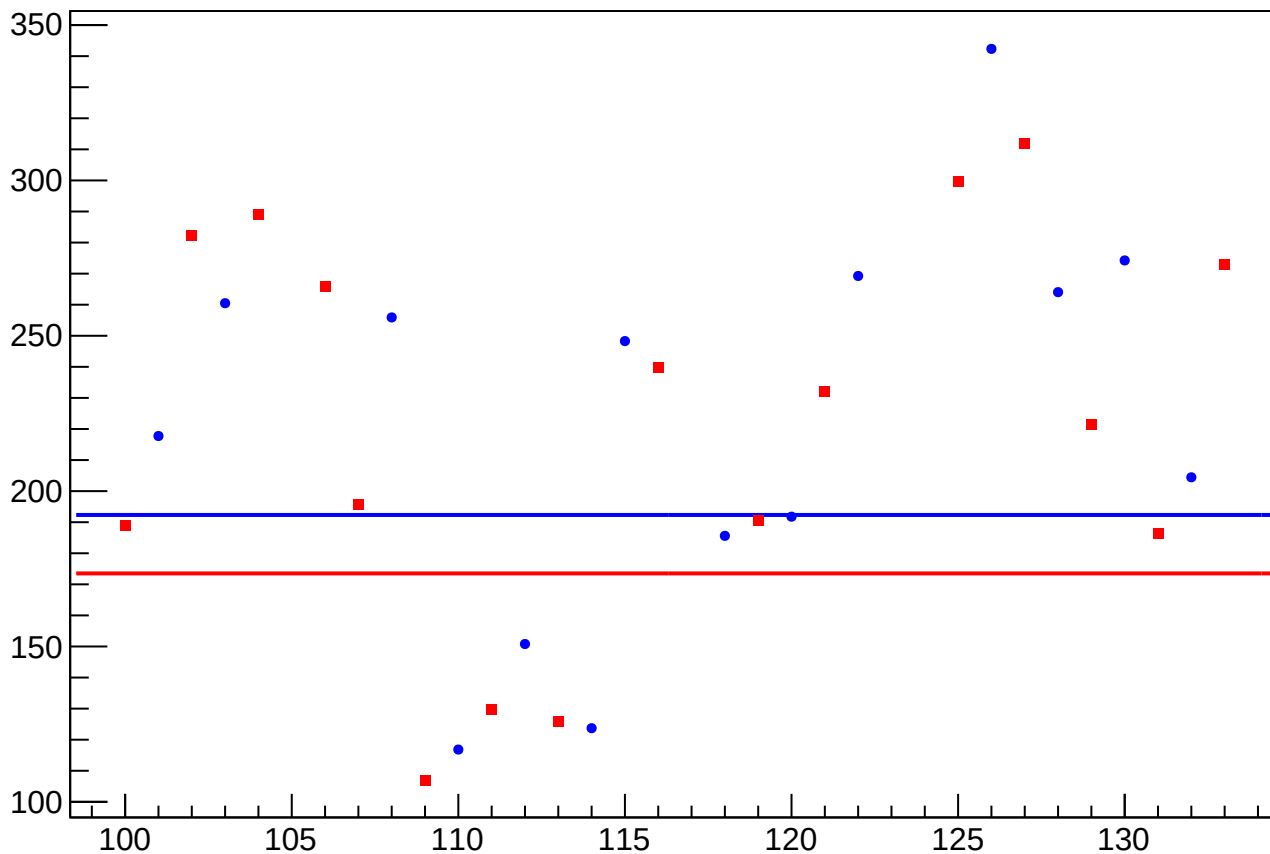
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.258+/-55.425  $\chi^2/\text{NDF}$ : 24.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_us\_avg\_rms vs Slug



Right In:  $192.336 \pm 0.059$   $\chi^2/\text{NDF}$ : 979378.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $173.516 \pm 0.052$   $\chi^2/\text{NDF}$ : 1582594.2/15

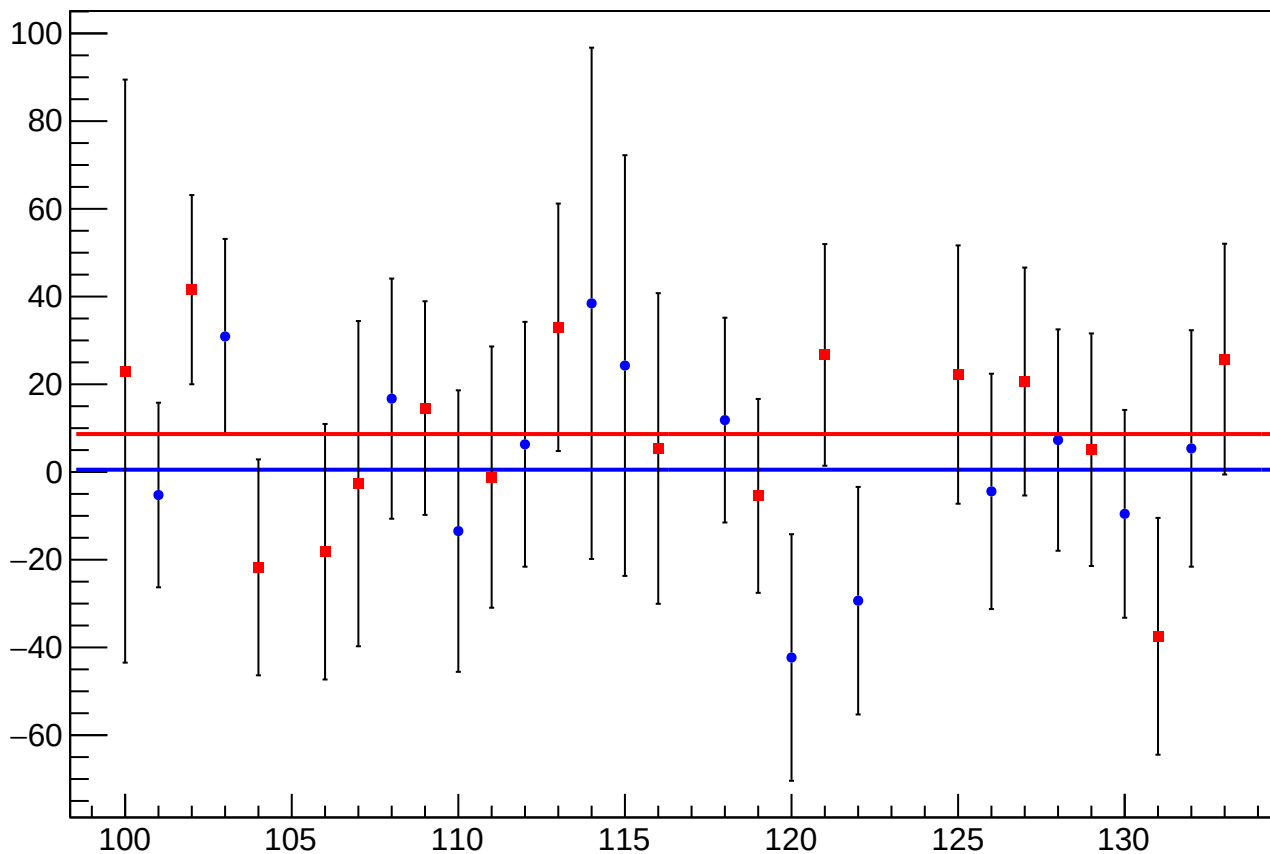
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $181.714 \pm 0.039$   $\chi^2/\text{NDF}$ : 2618669.4/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_us\_dd\_mean vs Slug



Right In: 0.524+/-7.198  $\chi^2/\text{NDF}$ : 7.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.653+/-6.854  $\chi^2/\text{NDF}$ : 10.5/15

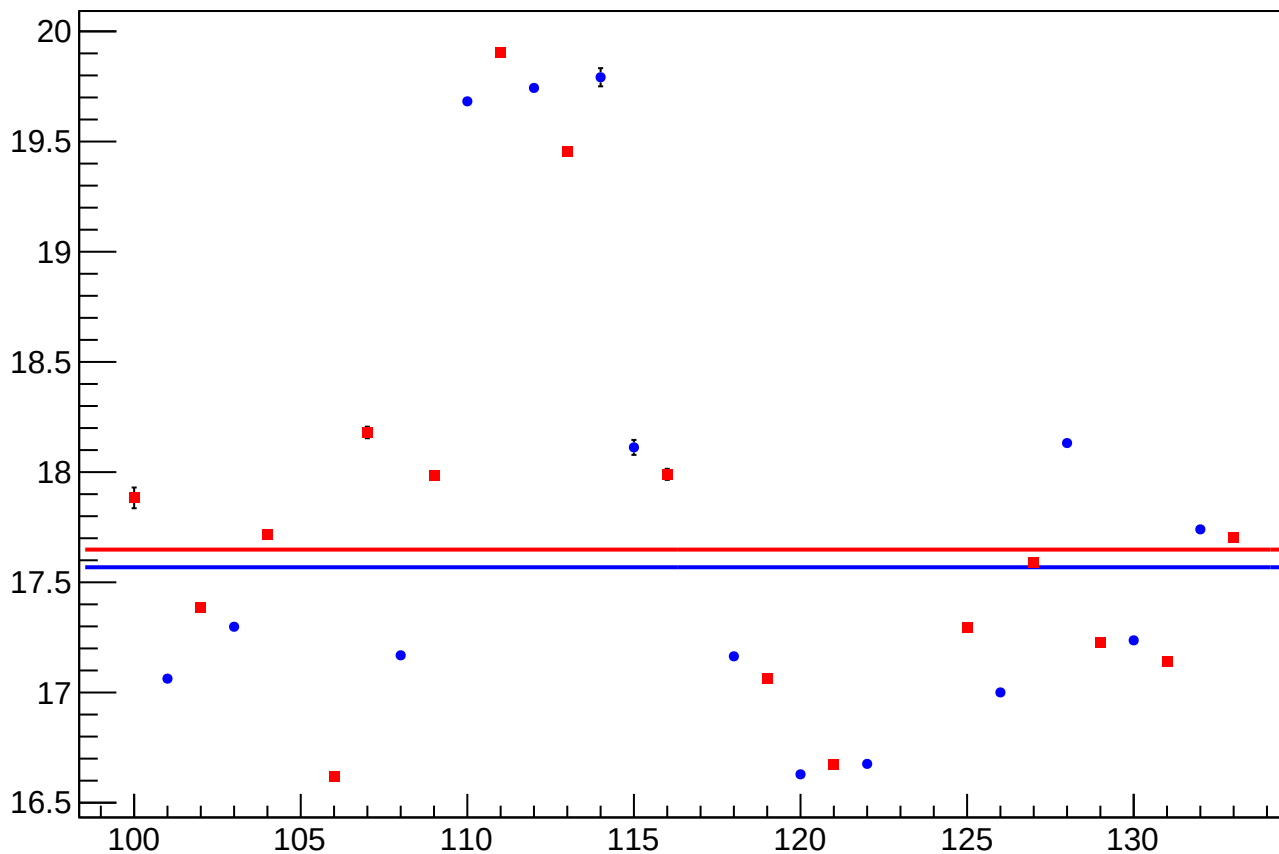
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.787+/-4.964  $\chi^2/\text{NDF}$ : 18.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_us\_dd\_rms vs Slug



Right In: 17.568 $\pm$ 0.005  $\chi^2$ /NDF: 33427.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.649 $\pm$ 0.005  $\chi^2$ /NDF: 29371.4/15

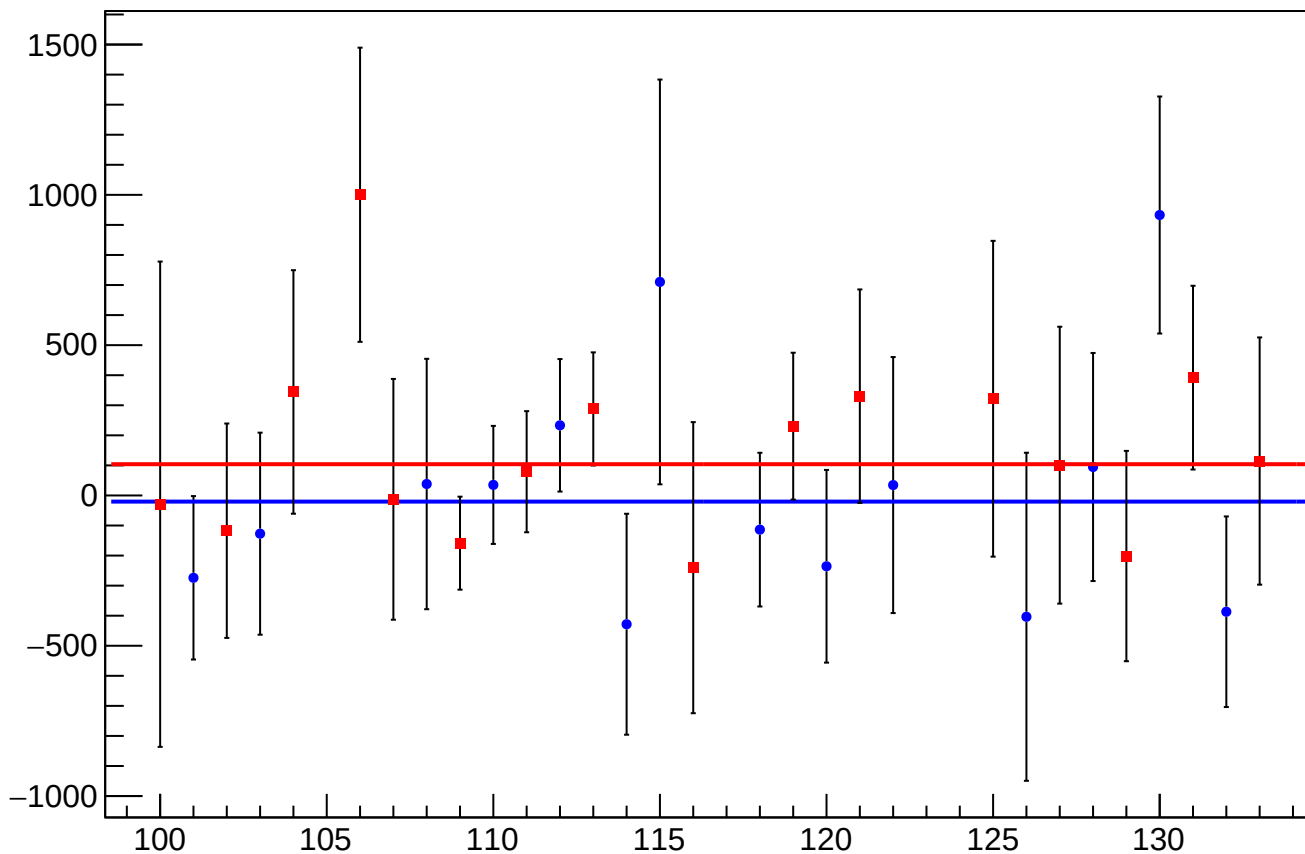
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.610 $\pm$ 0.004  $\chi^2$ /NDF: 62929.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_an\_ds\_avg\_mean vs Slug



Right In: -20.436+/-84.060  $\chi^2/\text{NDF}$ : 13.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 103.966+/-73.992  $\chi^2/\text{NDF}$ : 11.1/15

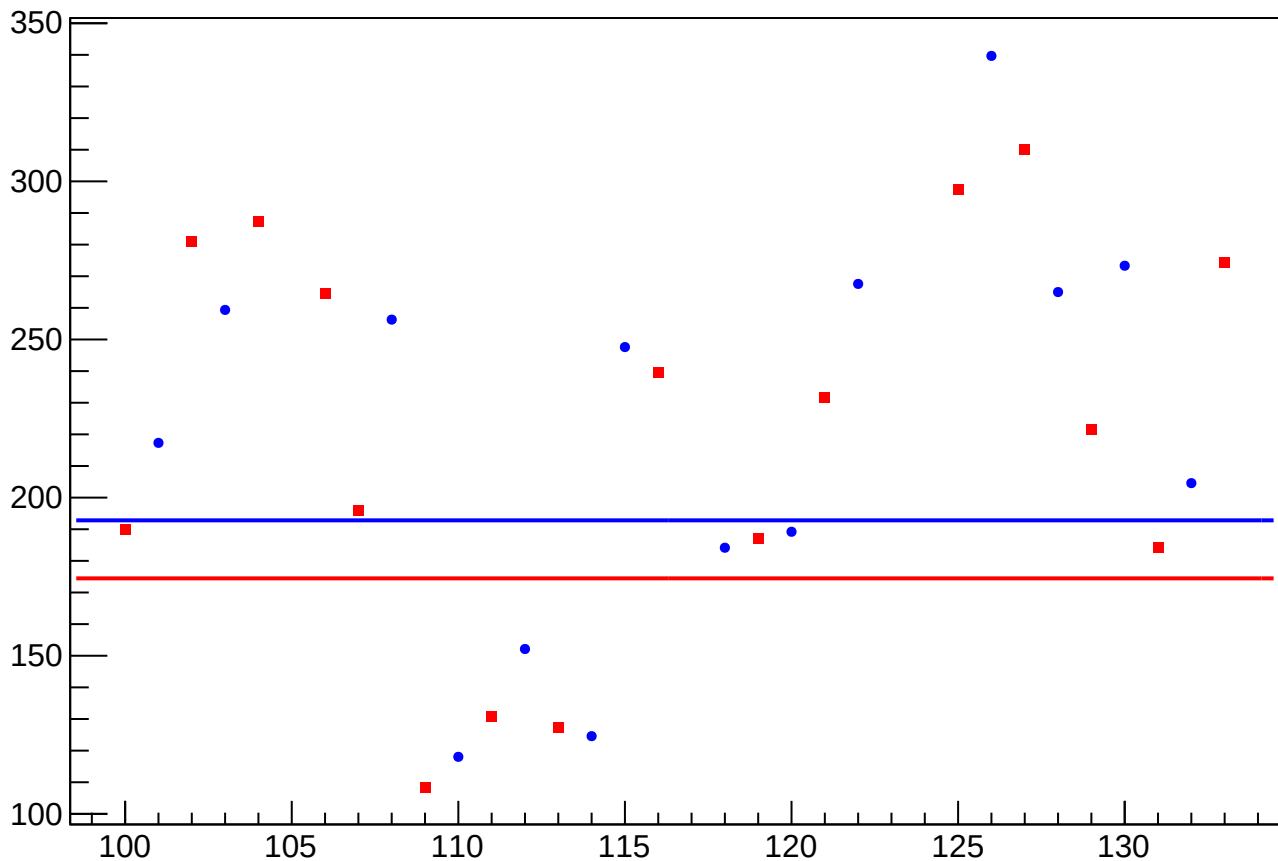
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.658+/-55.540  $\chi^2/\text{NDF}$ : 25.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_an\_ds\_avg\_rms vs Slug



Right In: 192.814 $\pm$ 0.059  $\chi^2$ /NDF: 949086.2/13

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: 174.465 $\pm$ 0.052  $\chi^2$ /NDF: 1526764.2/15

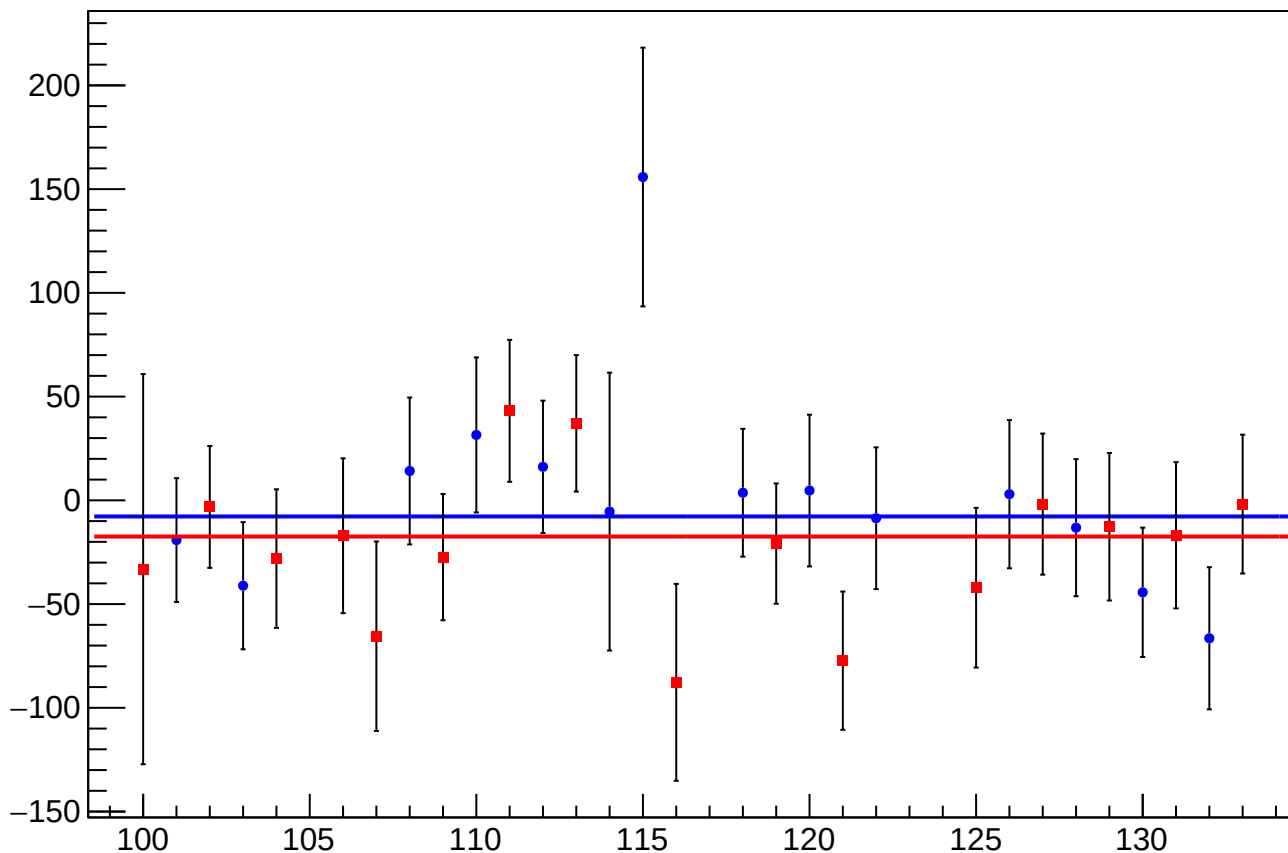
All: 182.475 $\pm$ 0.039  $\chi^2$ /NDF: 2529539.9/29

- 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\_bcm\_dg\_us\_an\_ds\_dd\_mean vs Slug



Right In:  $-7.774 \pm 9.363$   $\chi^2/\text{NDF}$ : 15.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-17.456 \pm 8.842$   $\chi^2/\text{NDF}$ : 13.8/15

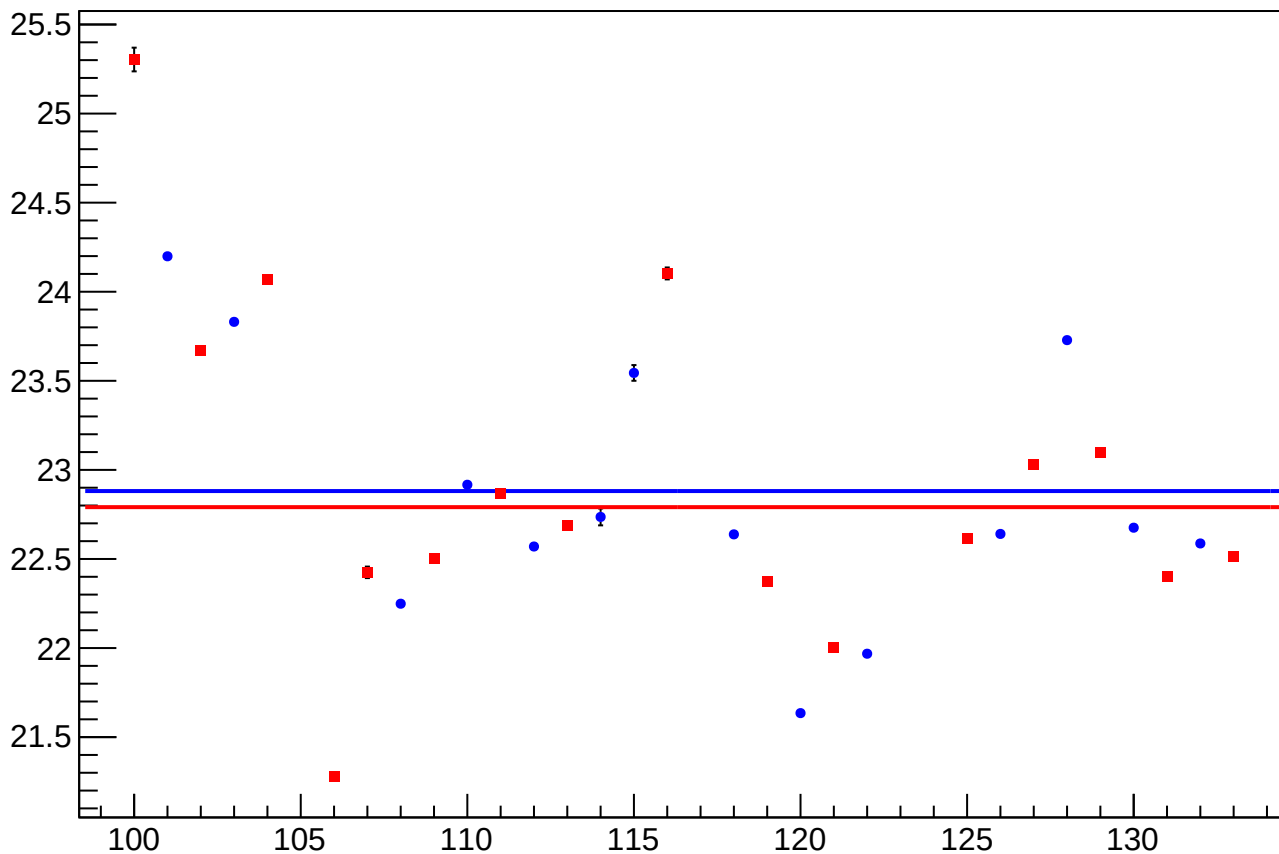
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-12.892 \pm 6.429$   $\chi^2/\text{NDF}$ : 29.3/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_an\_ds\_dd\_rms vs Slug



Right In: 22.881 $\pm$ 0.007  $\chi^2$ /NDF: 12404.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.791 $\pm$ 0.006  $\chi^2$ /NDF: 13472.4/15

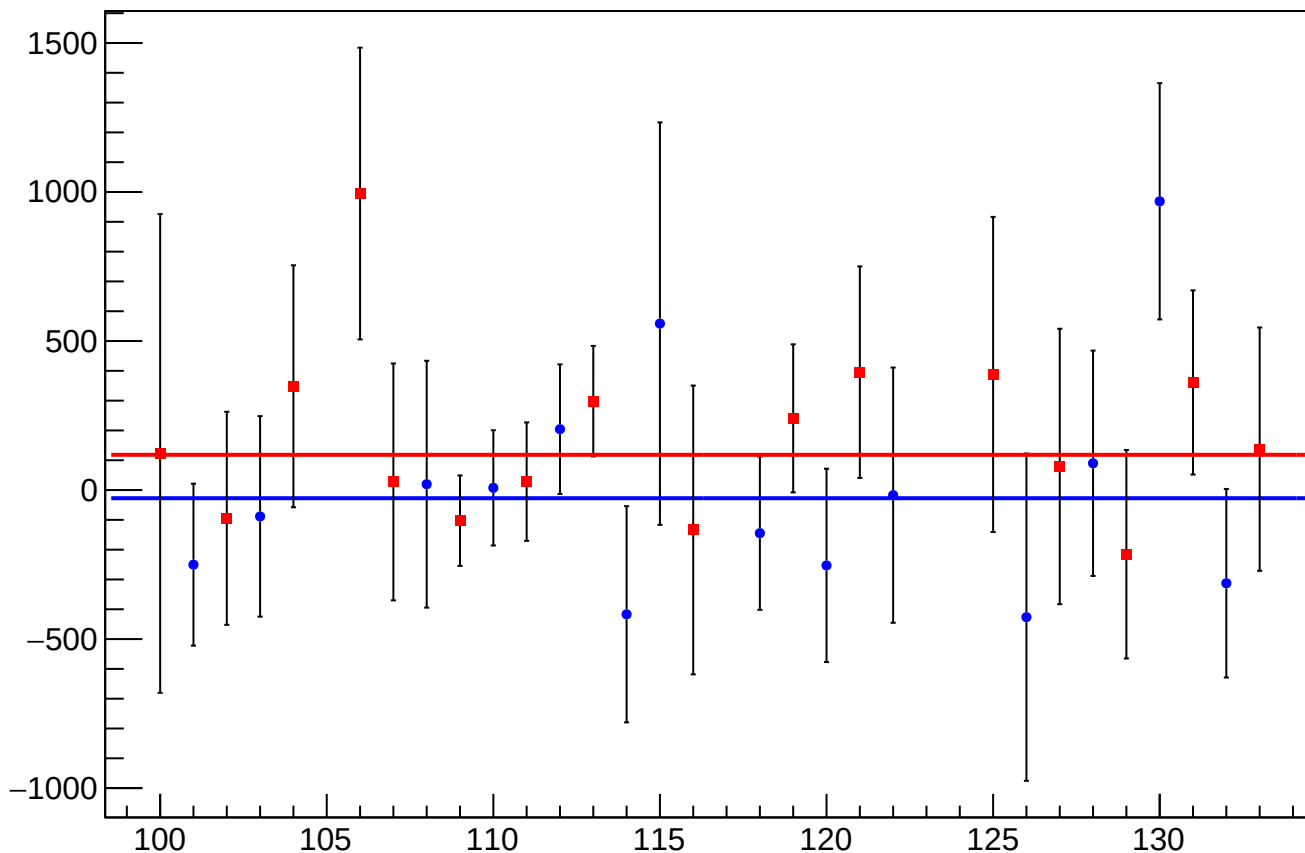
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 22.833 $\pm$ 0.005  $\chi^2$ /NDF: 25975.3/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_ds\_an\_ds\_avg\_mean vs Slug



Right In: -27.369+/-83.723  $\chi^2$ /NDF: 12.2/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 118.303+/-73.505  $\chi^2$ /NDF: 10.1/15

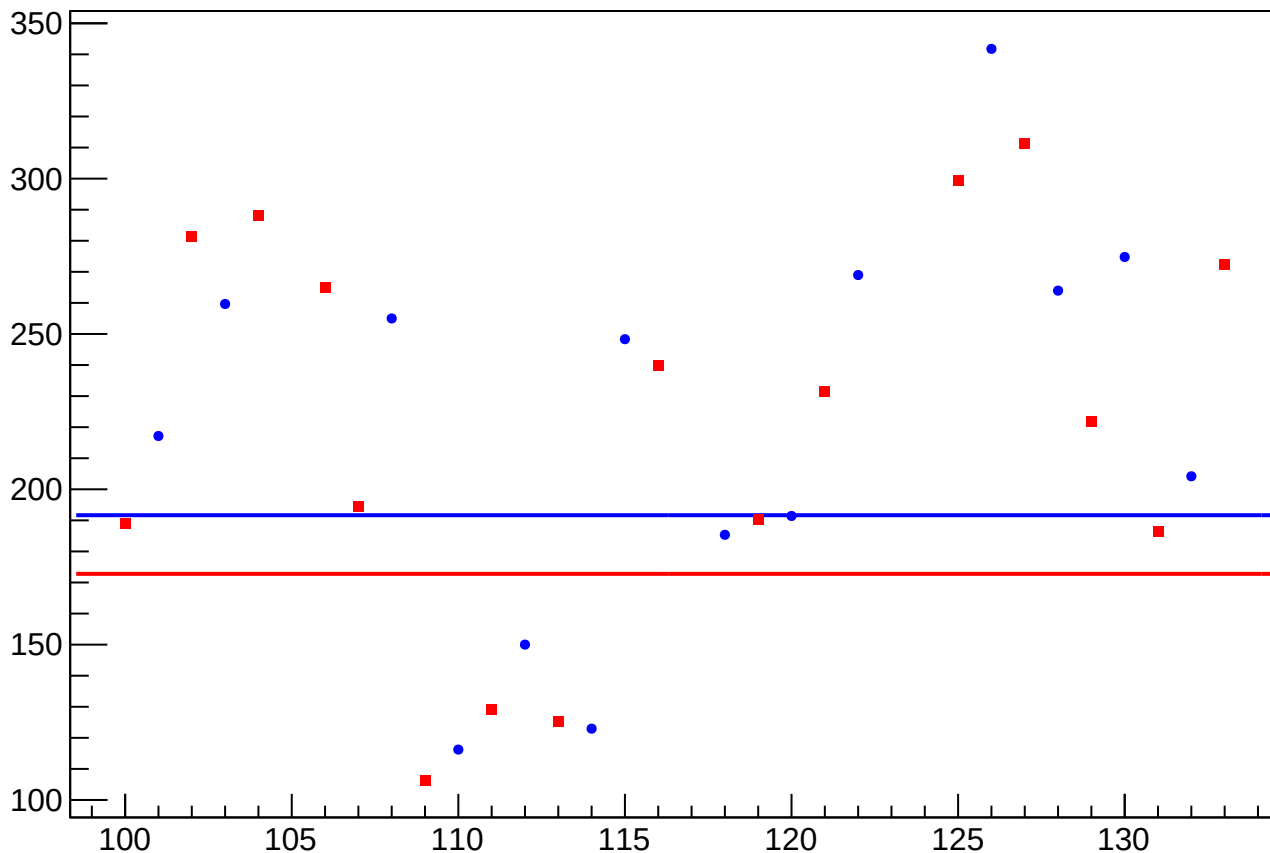
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 54.893+/-55.237  $\chi^2$ /NDF: 24.1/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_ds\_an\_ds\_avg\_rms vs Slug



Right In: 191.664+/-0.059  $\chi^2/\text{NDF}$ : 989787.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 172.788+/-0.052  $\chi^2/\text{NDF}$ : 1594746.2/15

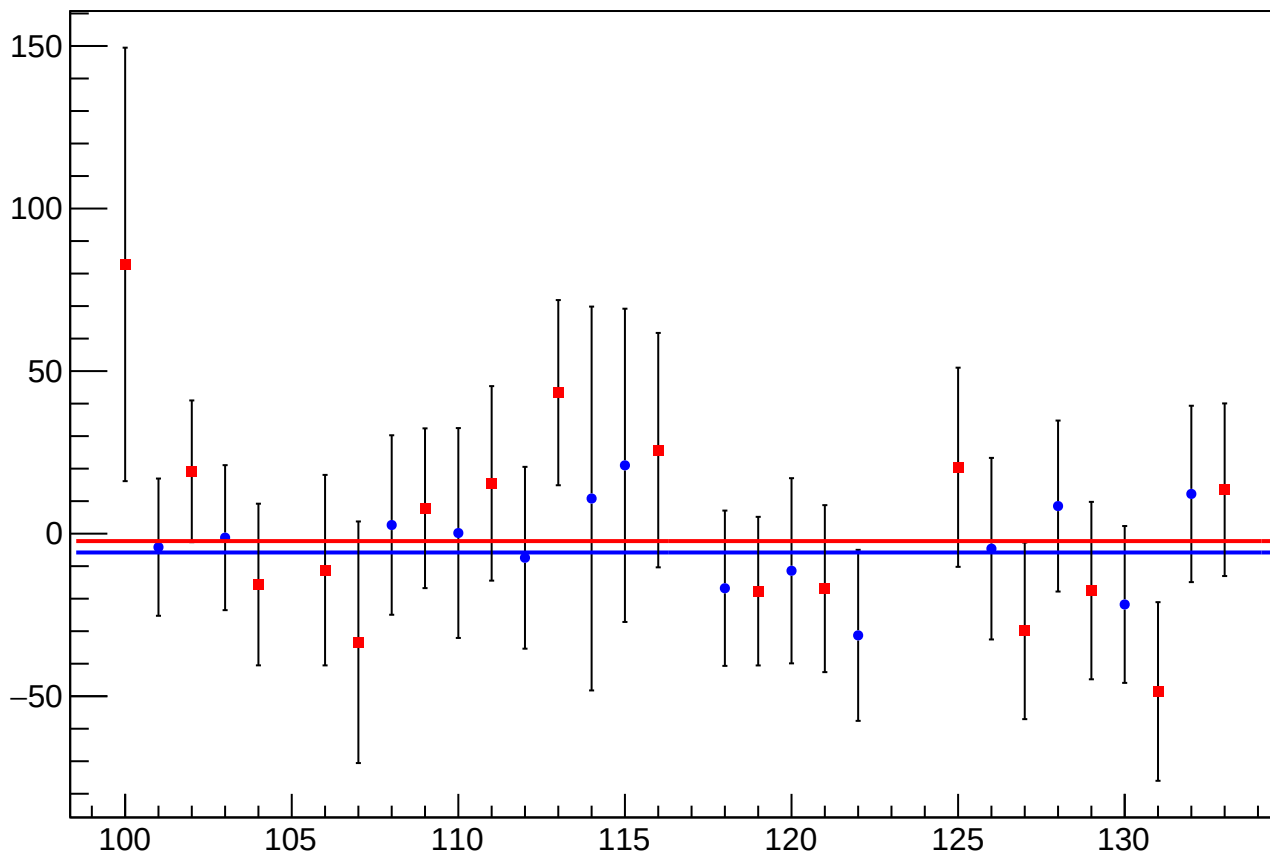
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 181.005+/-0.039  $\chi^2/\text{NDF}$ : 2641940.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_dg\_ds\_an\_ds\_dd\_mean vs Slug



Right In: -5.790+/-7.301  $\chi^2/\text{NDF}$ : 2.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.288+/-6.975  $\chi^2/\text{NDF}$ : 13.2/15

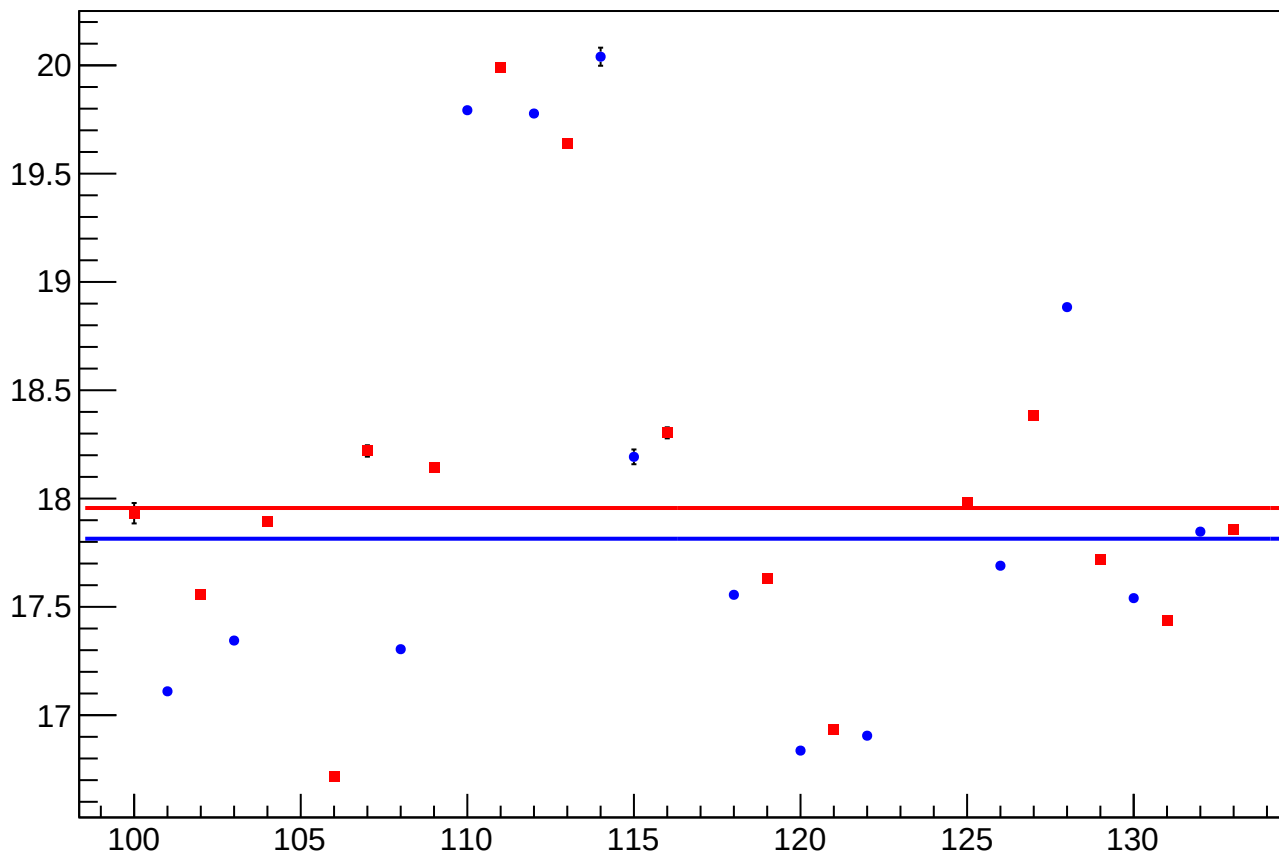
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.959+/-5.043  $\chi^2/\text{NDF}$ : 16.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_an\_ds\_dd\_rms vs Slug



Right In: 17.815+/-0.005  $\chi^2/\text{NDF}$ : 32725.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.956+/-0.005  $\chi^2/\text{NDF}$ : 25842.8/15

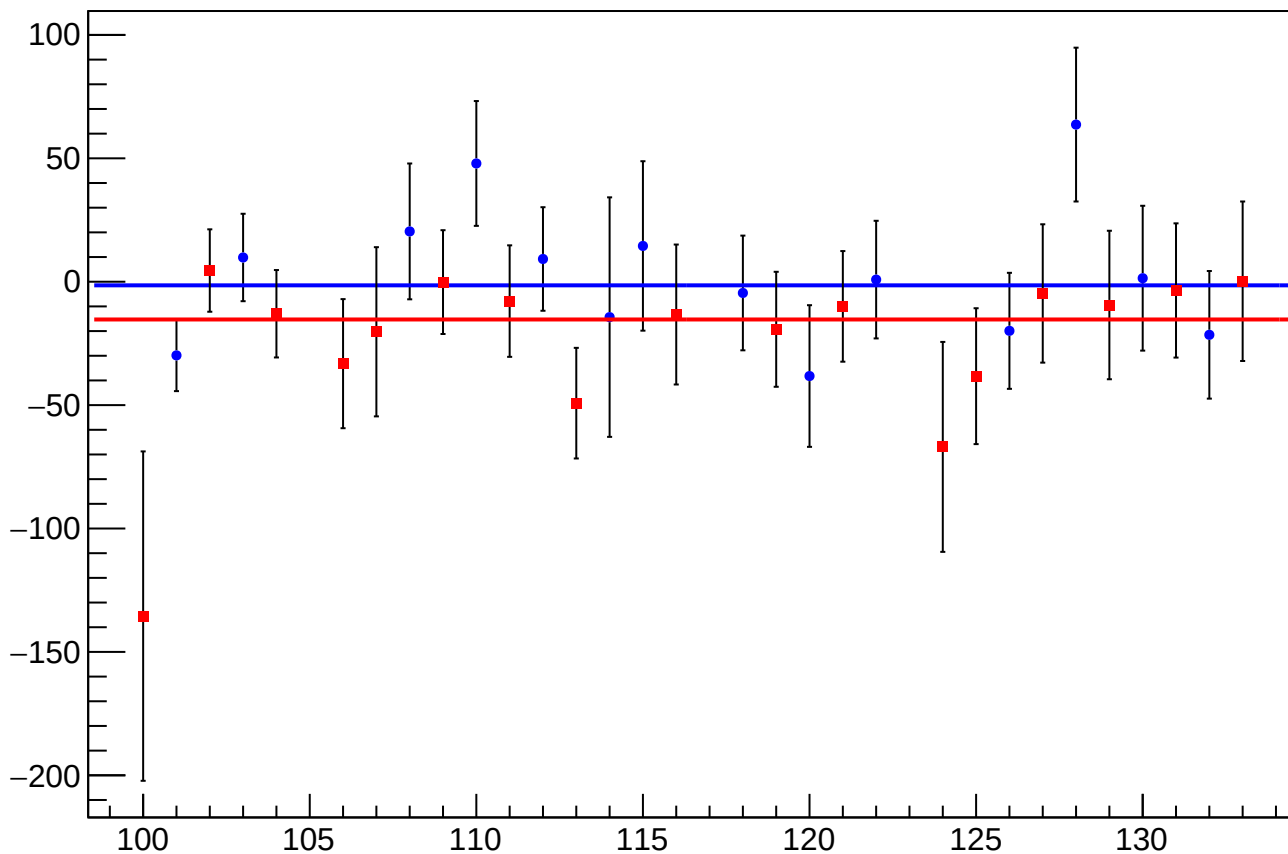
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.889+/-0.004  $\chi^2/\text{NDF}$ : 58962.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4acX\_avg\_mean vs Slug



Right In: -1.465+/-6.362  $\chi^2/\text{NDF}$ : 16.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.298+/-6.068  $\chi^2/\text{NDF}$ : 10.9/16

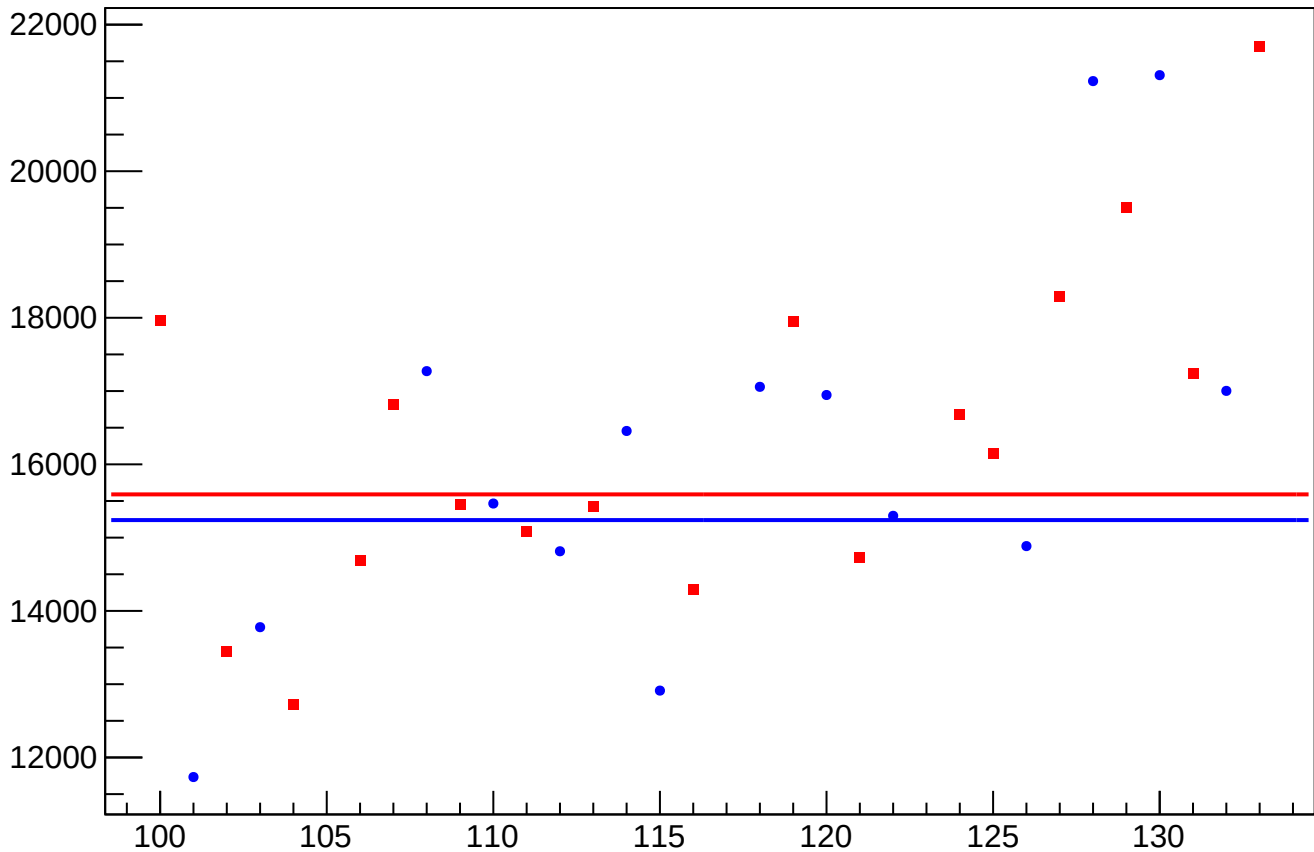
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.709+/-4.391  $\chi^2/\text{NDF}$ : 29.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4acX\_avg\_rms vs Slug



Right In: 15239.402 $\pm$ 4.499  $\chi^2$ /NDF: 341724.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 15590.060 $\pm$ 4.291  $\chi^2$ /NDF: 255437.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

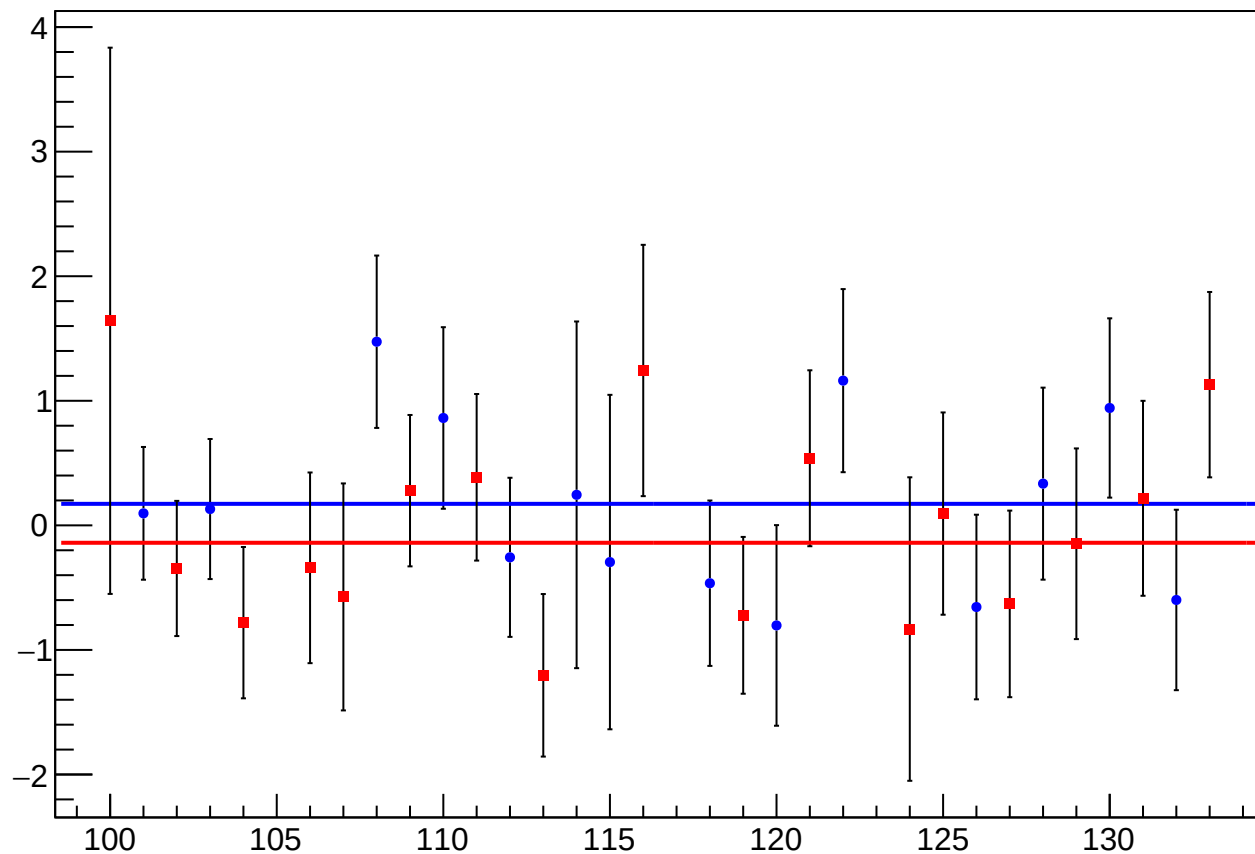
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 15423.032 $\pm$ 3.105  $\chi^2$ /NDF: 600344.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm\_4aX\_4acX\_dd\_mean vs Slug



Right In: 0.173+/-0.192  $\chi^2/\text{NDF}$ : 12.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.140+/-0.179  $\chi^2/\text{NDF}$ : 13.6/16

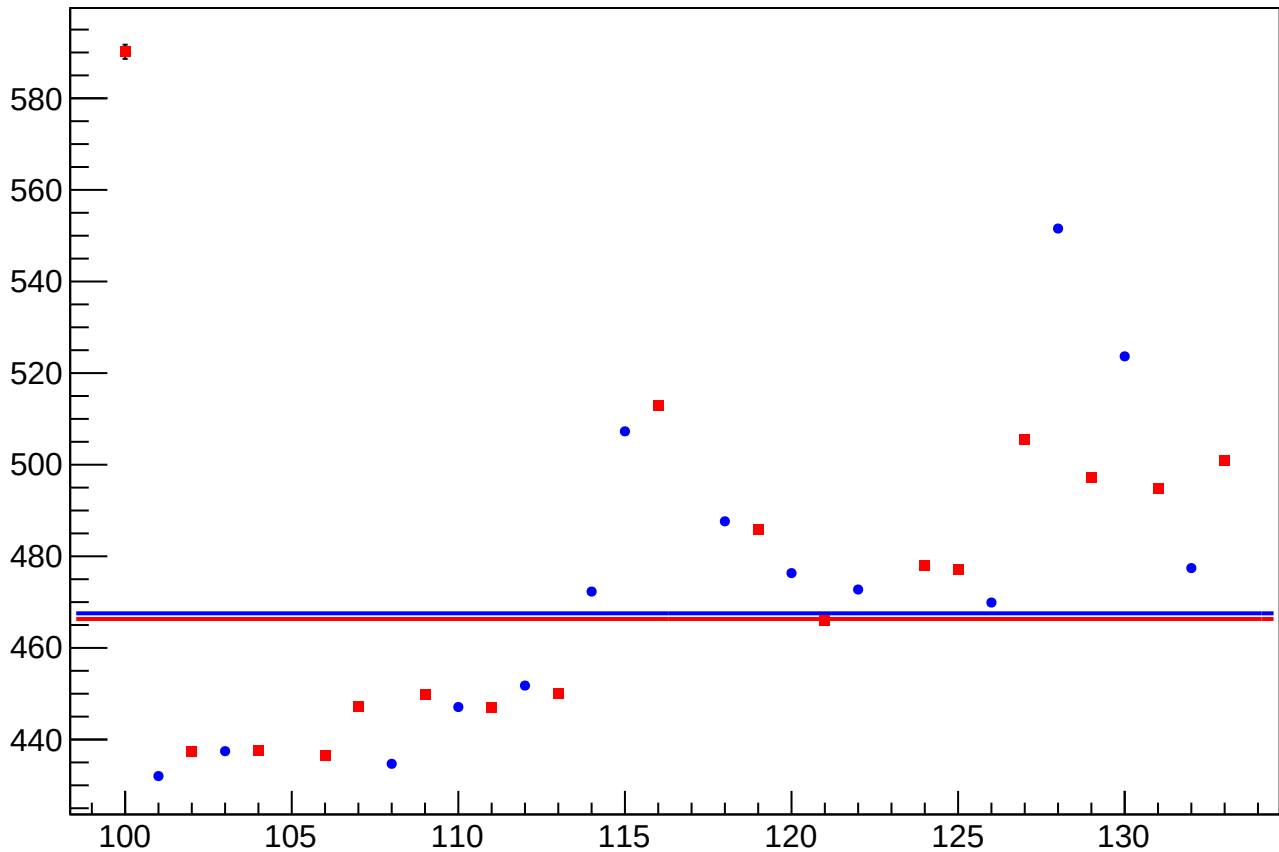
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.131  $\chi^2/\text{NDF}$ : 27.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4acX\_dd\_rms vs Slug



Right In: 467.552 $\pm$ 0.136  $\chi^2$ /NDF: 62186.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 466.321 $\pm$ 0.127  $\chi^2$ /NDF: 47224.2/16

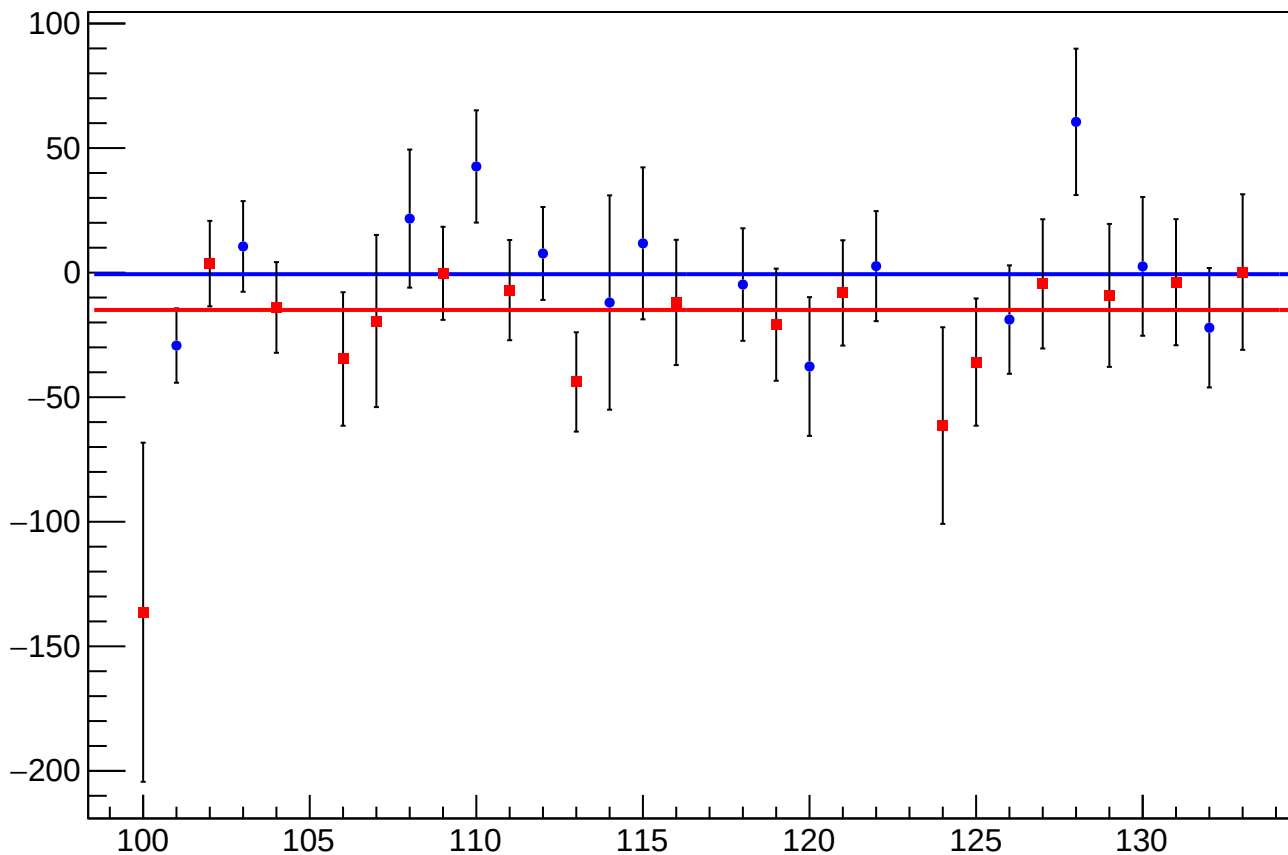
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 466.894 $\pm$ 0.093  $\chi^2$ /NDF: 109455.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aX\_4eX\_avg\_mean vs Slug



Right In:  $-0.624 \pm 6.101$   $\chi^2/\text{NDF}$ : 16.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-14.978 \pm 5.776$   $\chi^2/\text{NDF}$ : 10.7/16

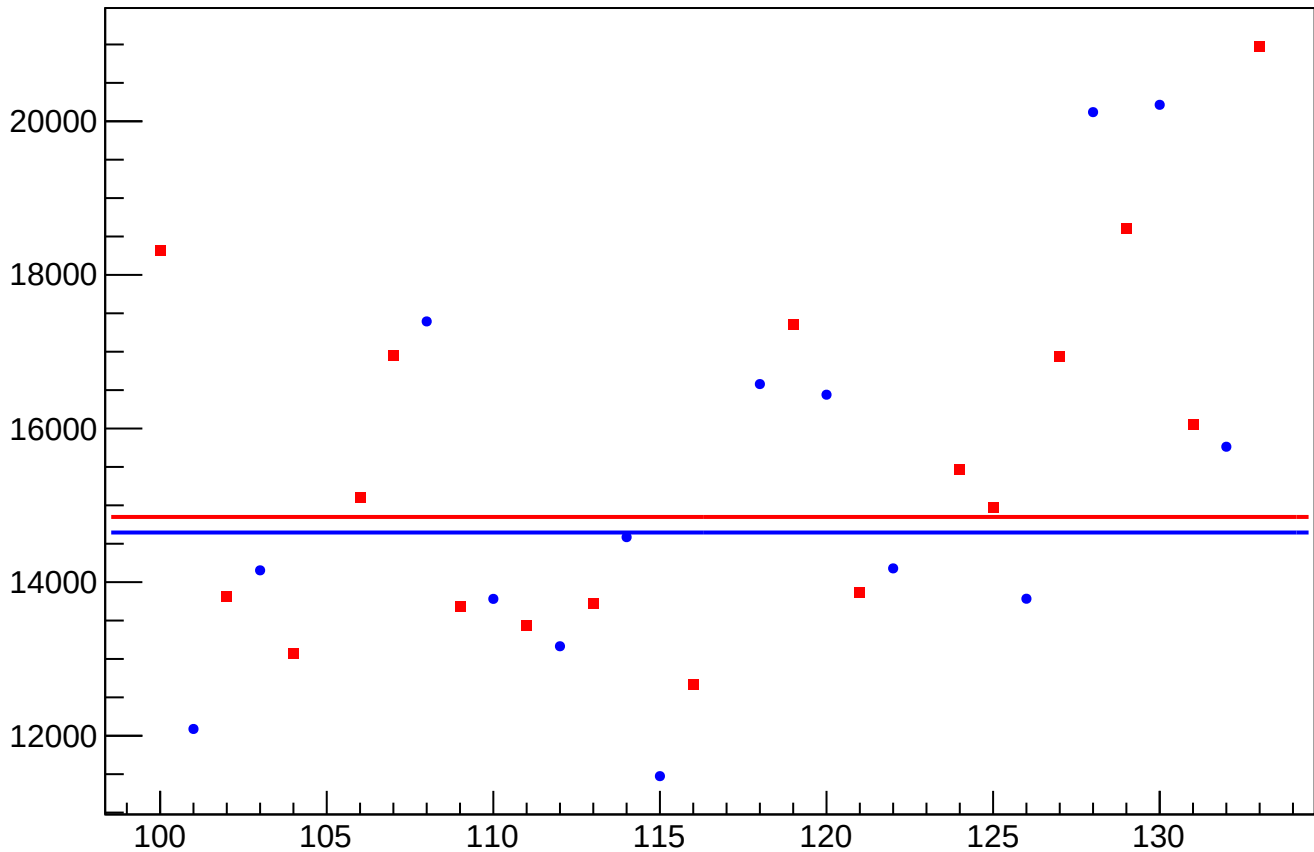
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-8.193 \pm 4.194$   $\chi^2/\text{NDF}$ : 30.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

diff\_bpm\_4aX\_4eX\_avg\_rms vs Slug



Right In: 14646.138+/-4.314  $\chi^2/\text{NDF}$ : 297706.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14848.802+/-4.084  $\chi^2/\text{NDF}$ : 236673.8/16

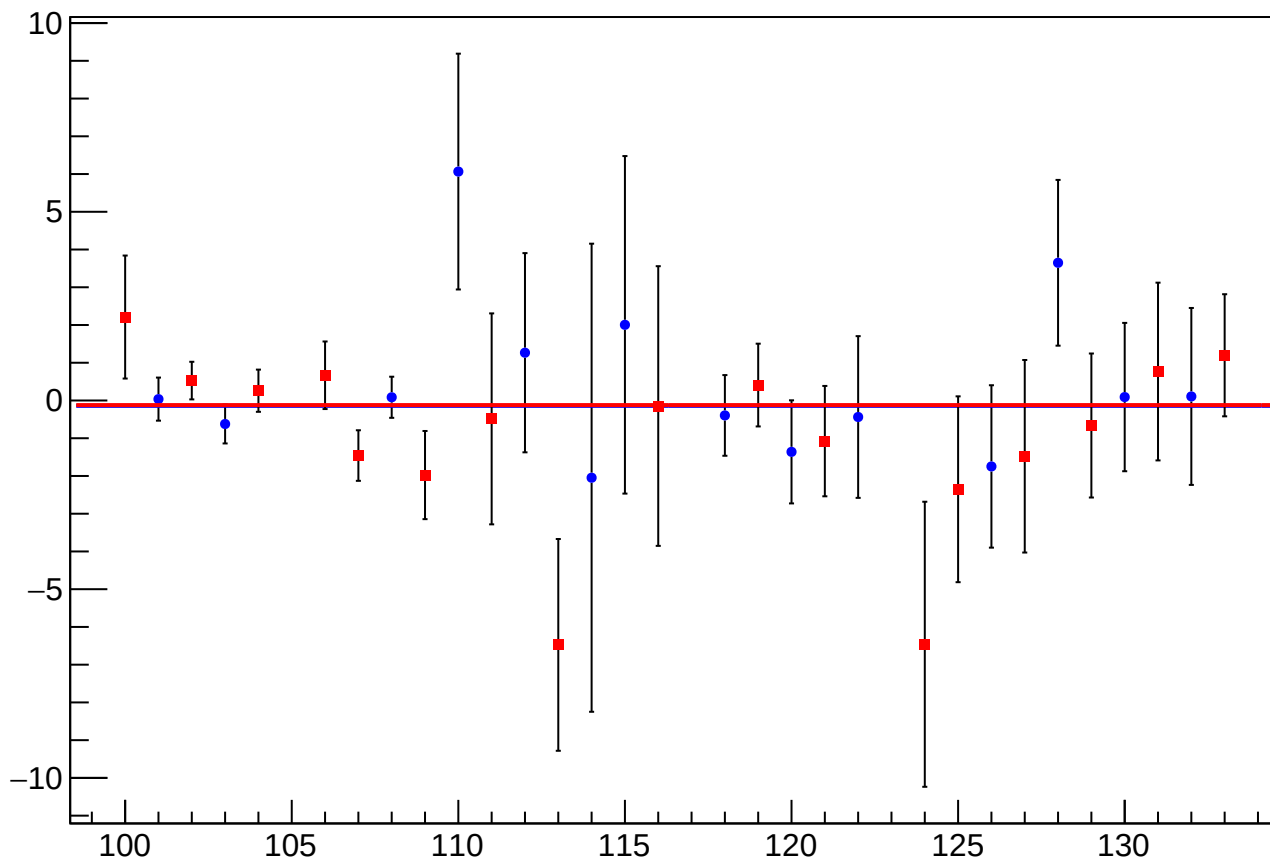
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14753.005+/-2.966  $\chi^2/\text{NDF}$ : 535543.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4eX\_dd\_mean vs Slug



Right In: -0.142+/-0.277  $\chi^2/\text{NDF}$ : 10.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.122+/-0.261  $\chi^2/\text{NDF}$ : 22.1/16

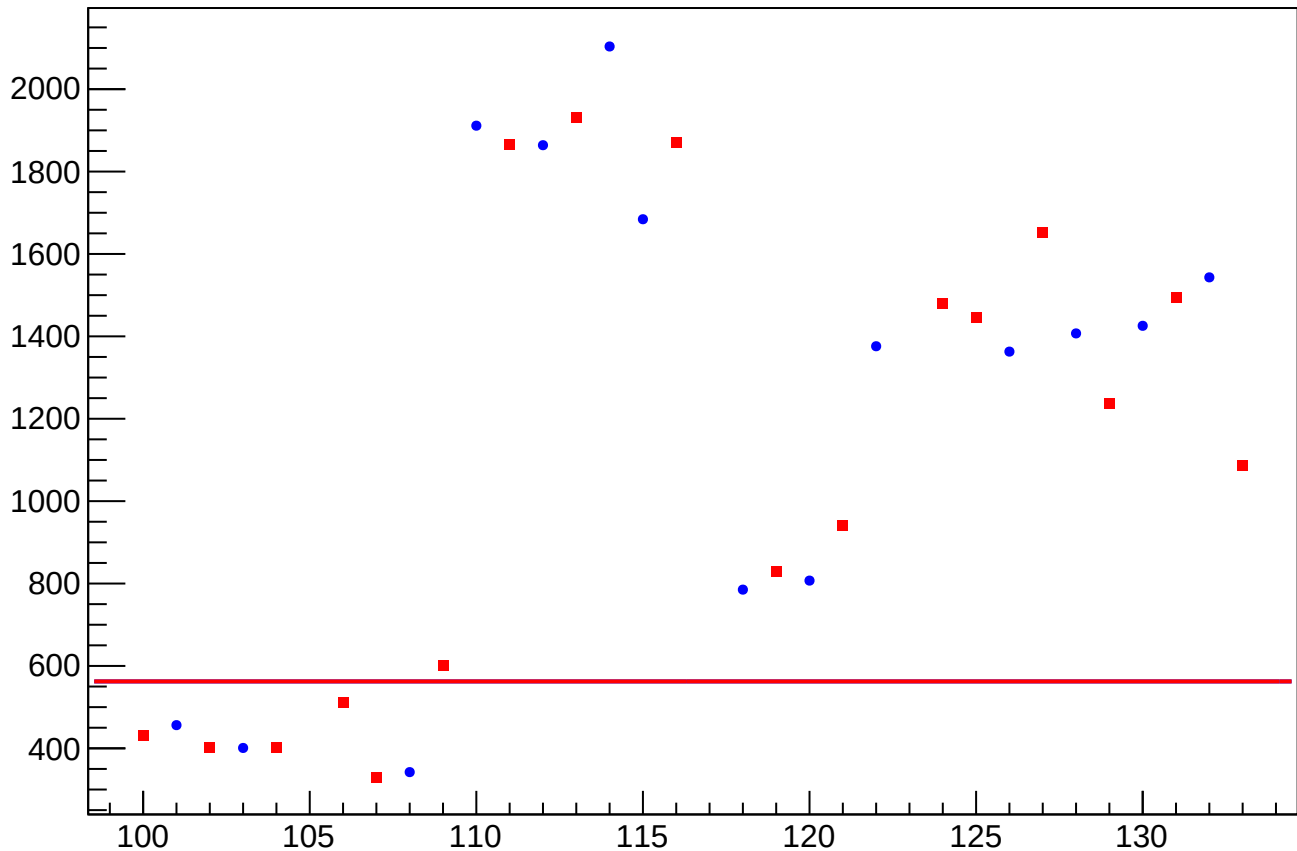
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.131+/-0.190  $\chi^2/\text{NDF}$ : 32.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4eX\_dd\_rms vs Slug



Right In: 562.360+/-0.196  $\chi^2/\text{NDF}$ : 3449332.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 562.487+/-0.185  $\chi^2/\text{NDF}$ : 3566852.7/16

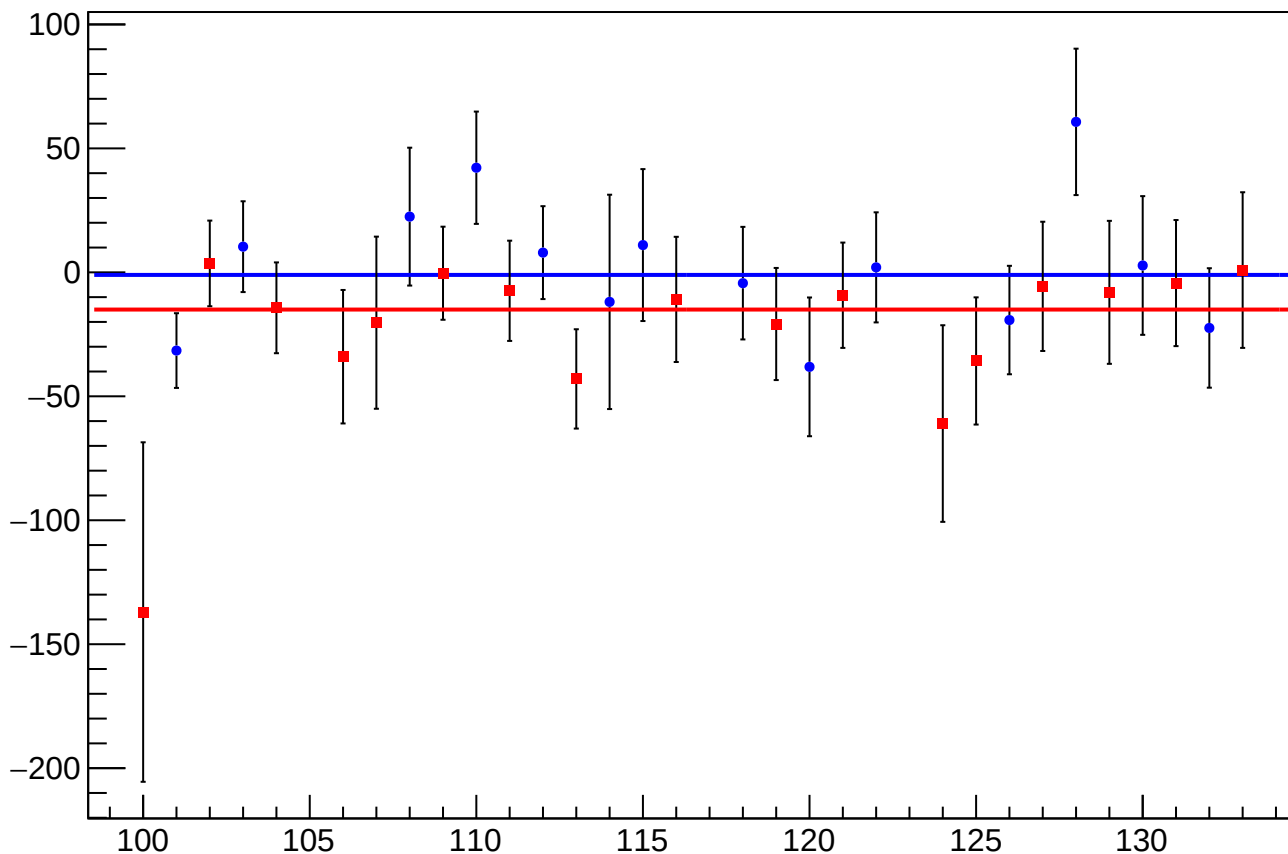
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 562.427+/-0.134  $\chi^2/\text{NDF}$ : 7016185.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4ecX\_avg\_mean vs Slug



Right In:  $-1.037 \pm 6.136$   $\chi^2/\text{NDF}$ : 17.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-15.008 \pm 5.806$   $\chi^2/\text{NDF}$ : 10.3/16

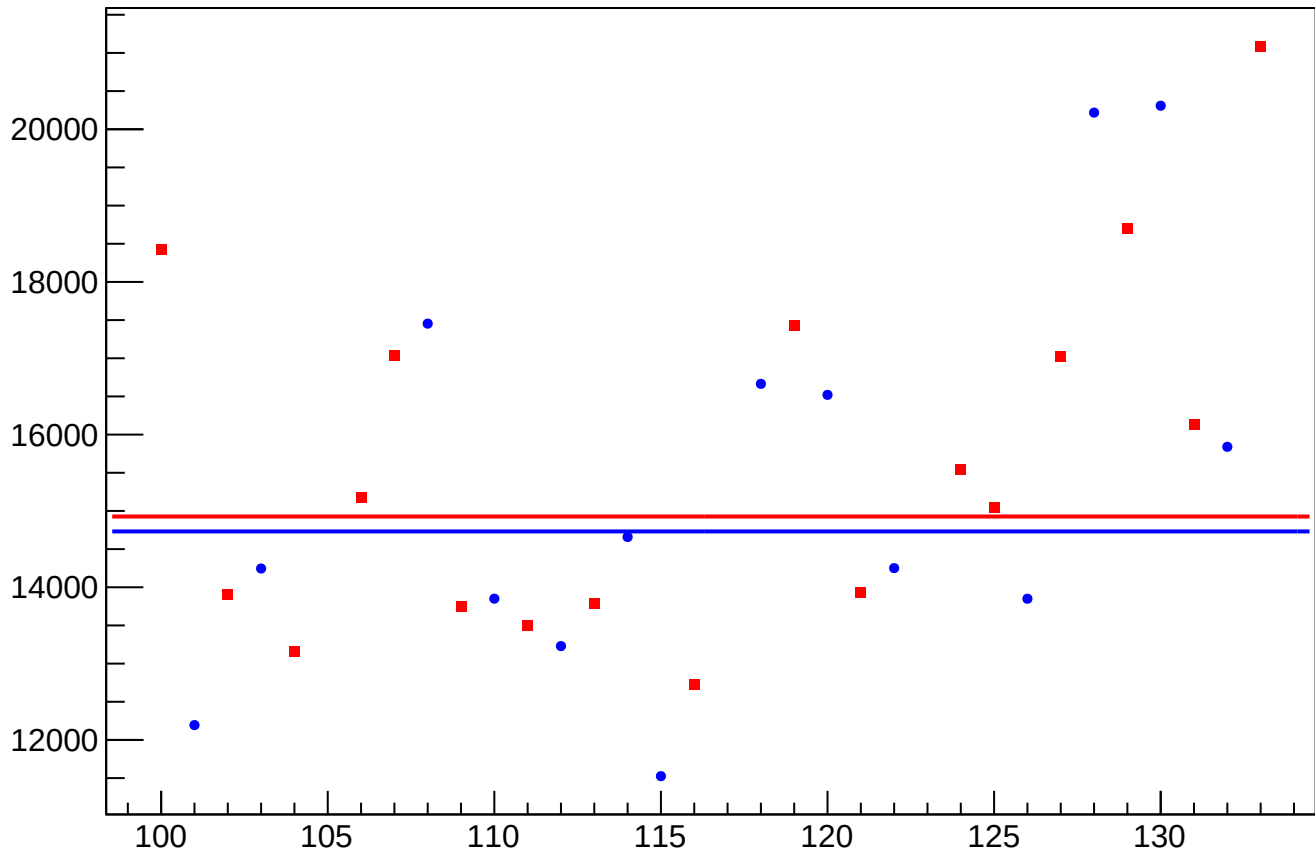
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-8.408 \pm 4.217$   $\chi^2/\text{NDF}$ : 30.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

diff\_bpm\_4aX\_4ecX\_avg\_rms vs Slug



Right In: 14731.403+/-4.339  $\chi^2/\text{NDF}$ : 294672.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14926.968+/-4.106  $\chi^2/\text{NDF}$ : 236056.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

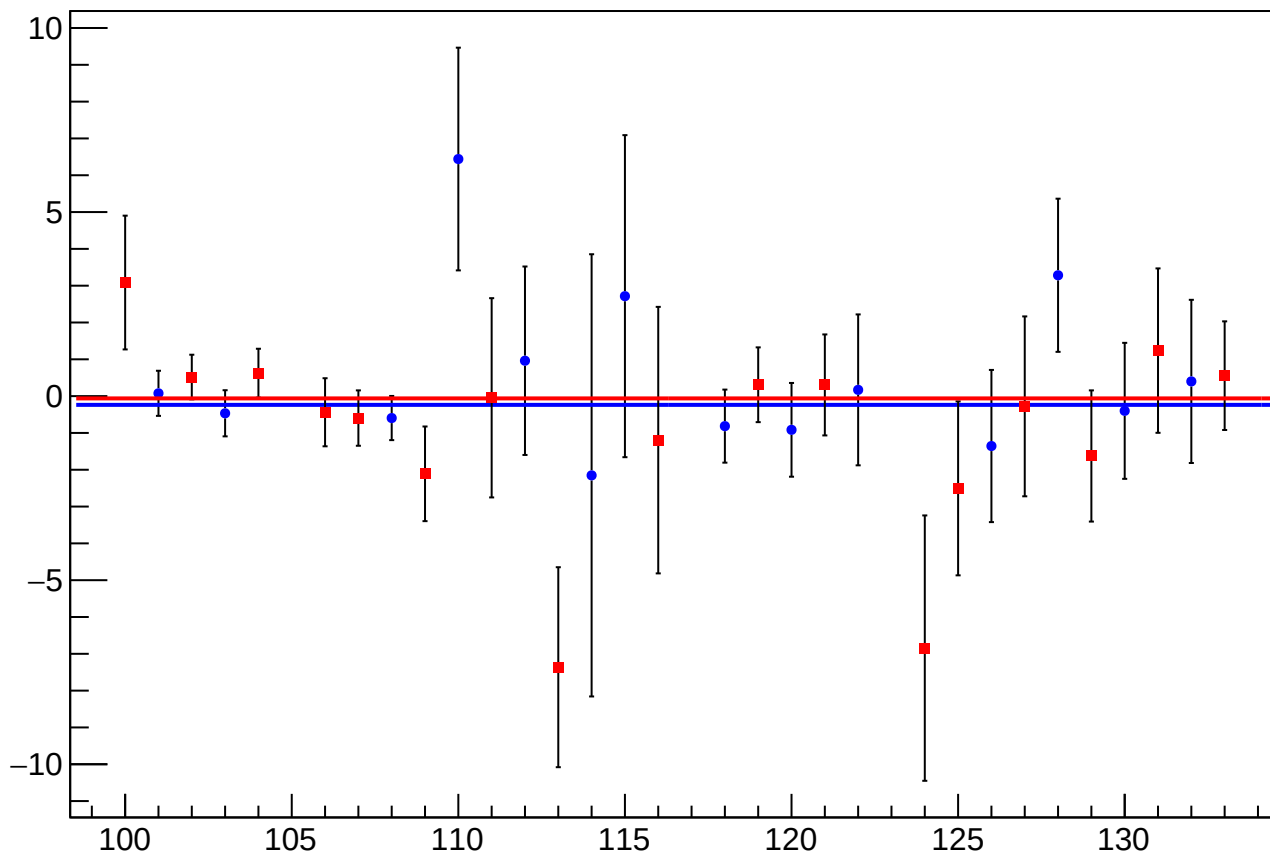
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14834.580+/-2.982  $\chi^2/\text{NDF}$ : 531800.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm\_4aX\_4ecX\_dd\_mean vs Slug



Right In:  $-0.237 \pm 0.299$   $\chi^2/\text{NDF}$ : 10.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.062 \pm 0.288$   $\chi^2/\text{NDF}$ : 21.6/16

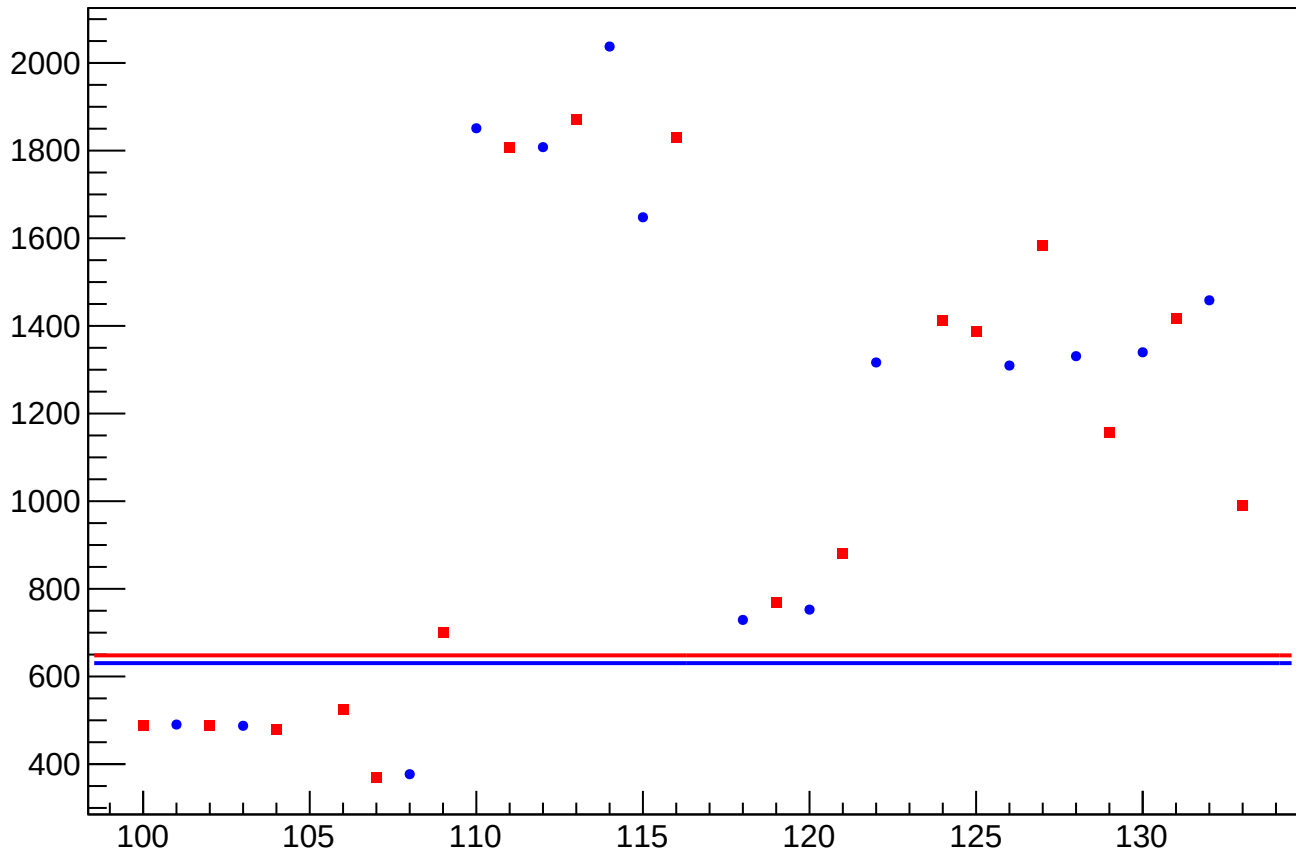
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.146 \pm 0.207$   $\chi^2/\text{NDF}$ : 32.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aX\_4ecX\_dd\_rms vs Slug



Right In: 630.463+/-0.212  $\chi^2/\text{NDF}$ : 2811227.7/13

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

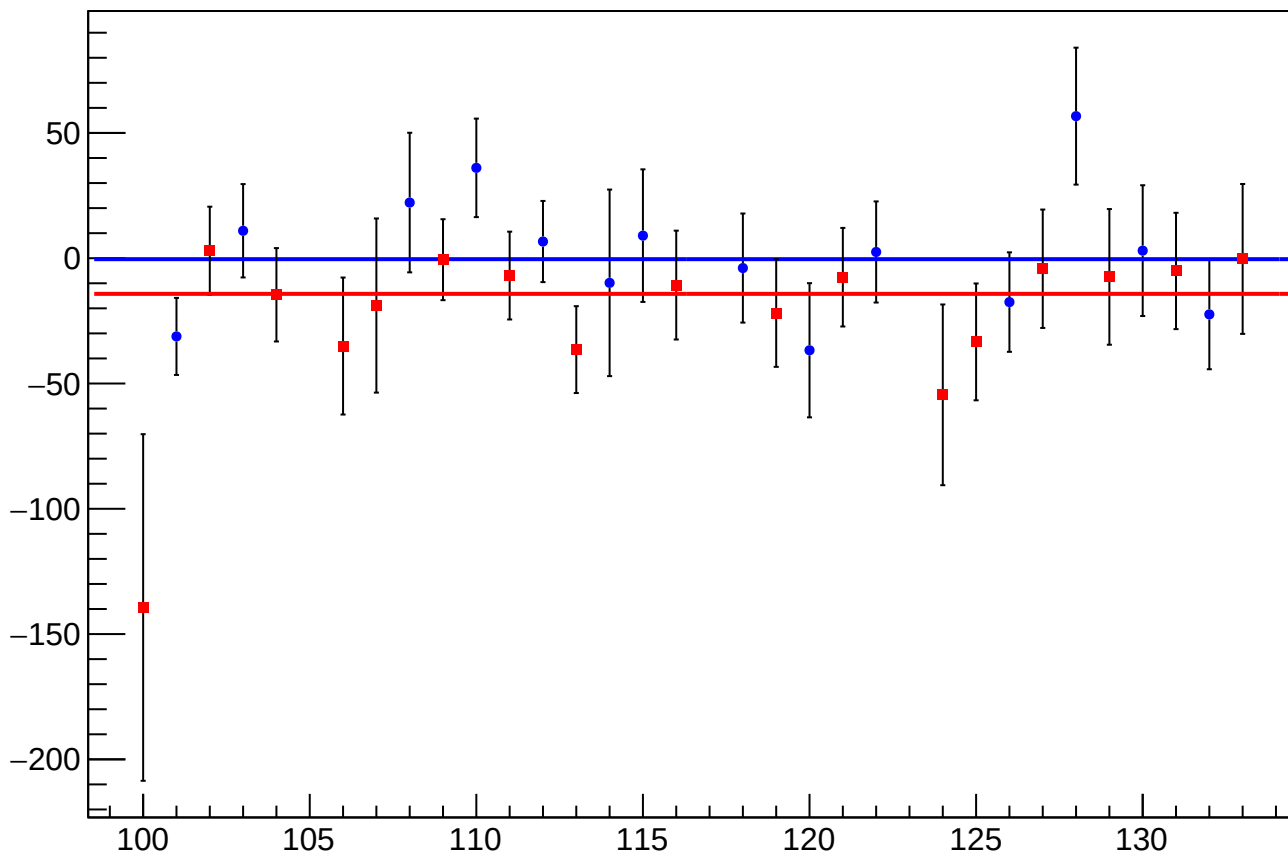
Right Out: 648.200+/-0.203  $\chi^2/\text{NDF}$ : 2754464.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 639.683+/-0.147  $\chi^2/\text{NDF}$ : 5569343.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4eX\_4ecX\_avg\_mean vs Slug



Right In: -0.377+/-5.741  $\chi^2/\text{NDF}$ : 16.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14.218+/-5.383  $\chi^2/\text{NDF}$ : 10.2/16

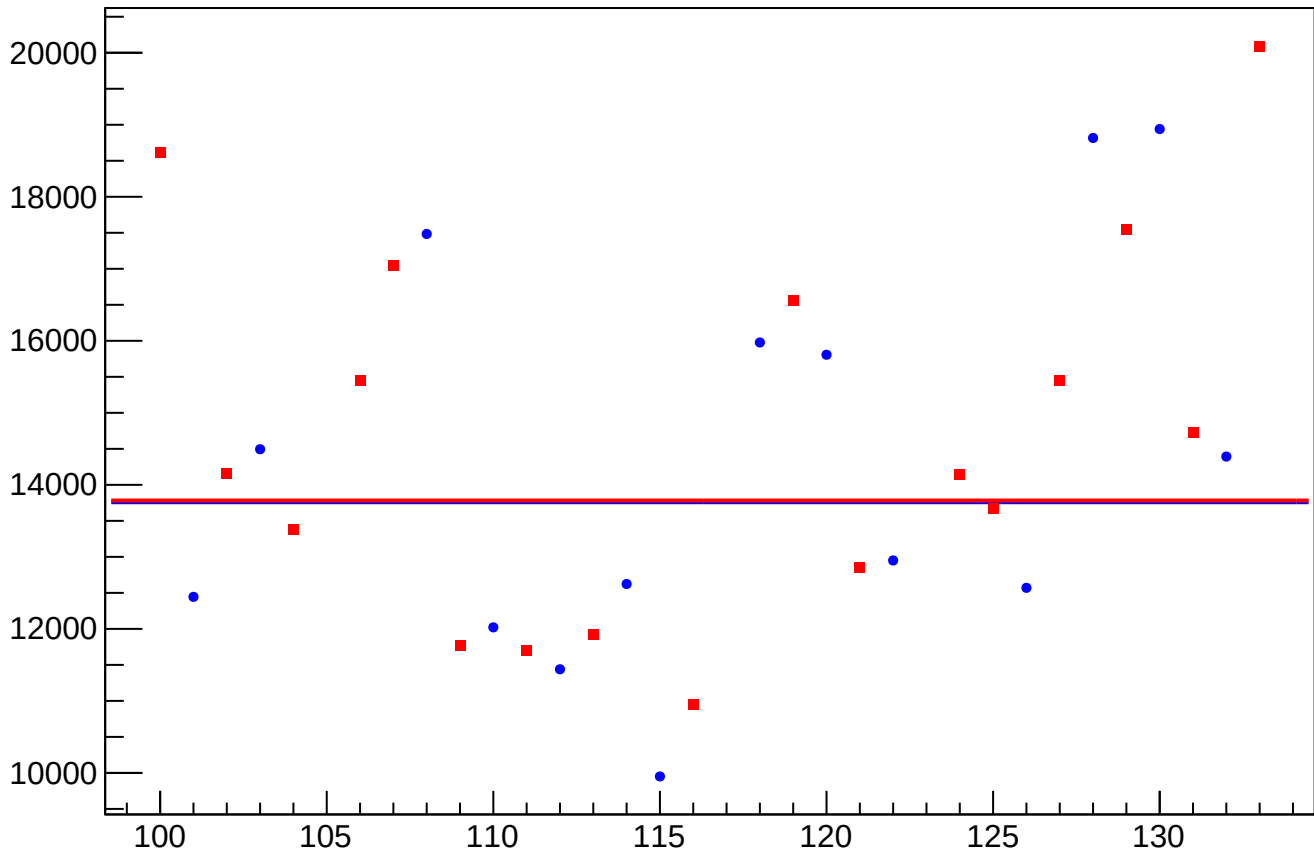
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.744+/-3.927  $\chi^2/\text{NDF}$ : 30.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4eX\_4ecX\_avg\_rms vs Slug



Right In: 13758.927+/-4.060  $\chi^2/\text{NDF}$ : 345297.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13782.288+/-3.806  $\chi^2/\text{NDF}$ : 331967.1/16

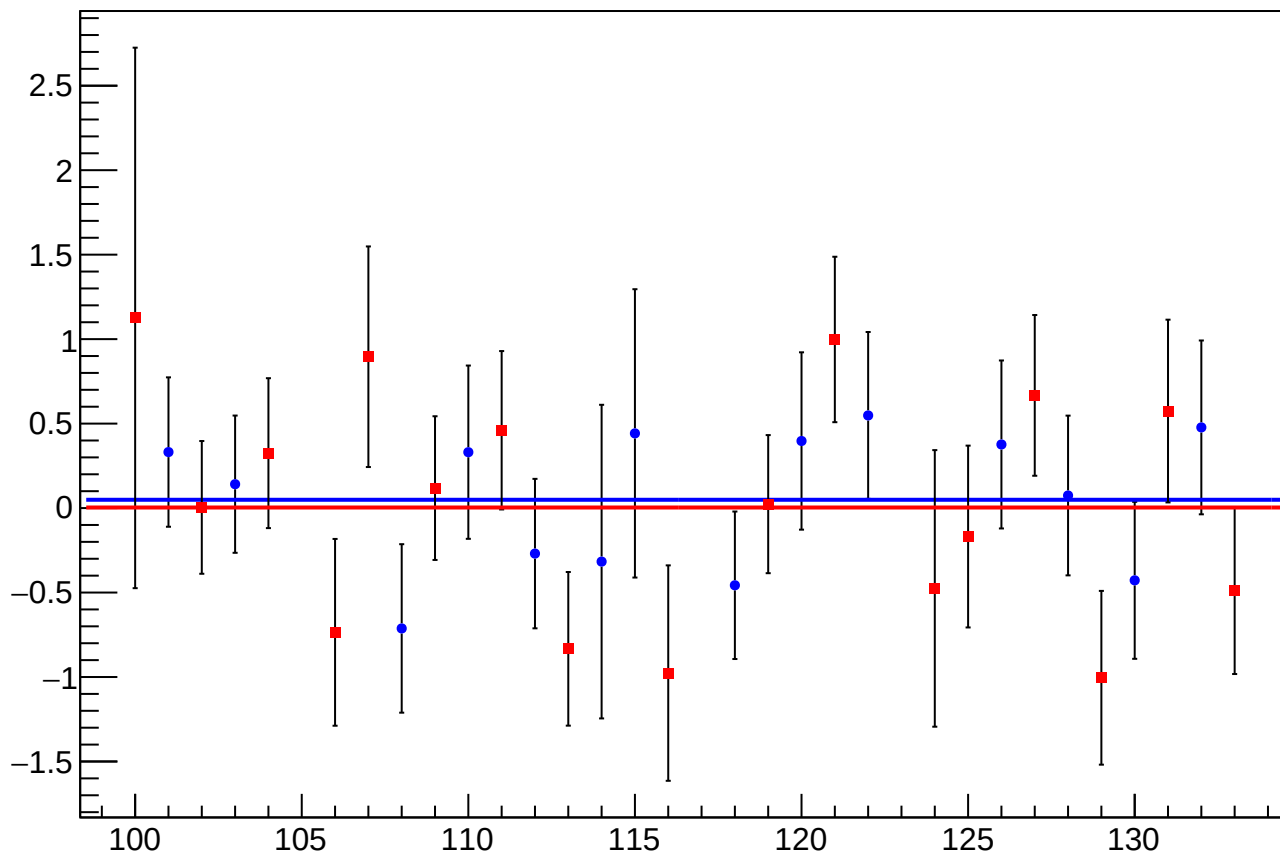
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13771.360+/-2.777  $\chi^2/\text{NDF}$ : 677282.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4eX\_4ecX\_dd\_mean vs Slug



Right In: 0.049 $\pm$ 0.133  $\chi^2$ /NDF: 9.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.123  $\chi^2$ /NDF: 23.9/16

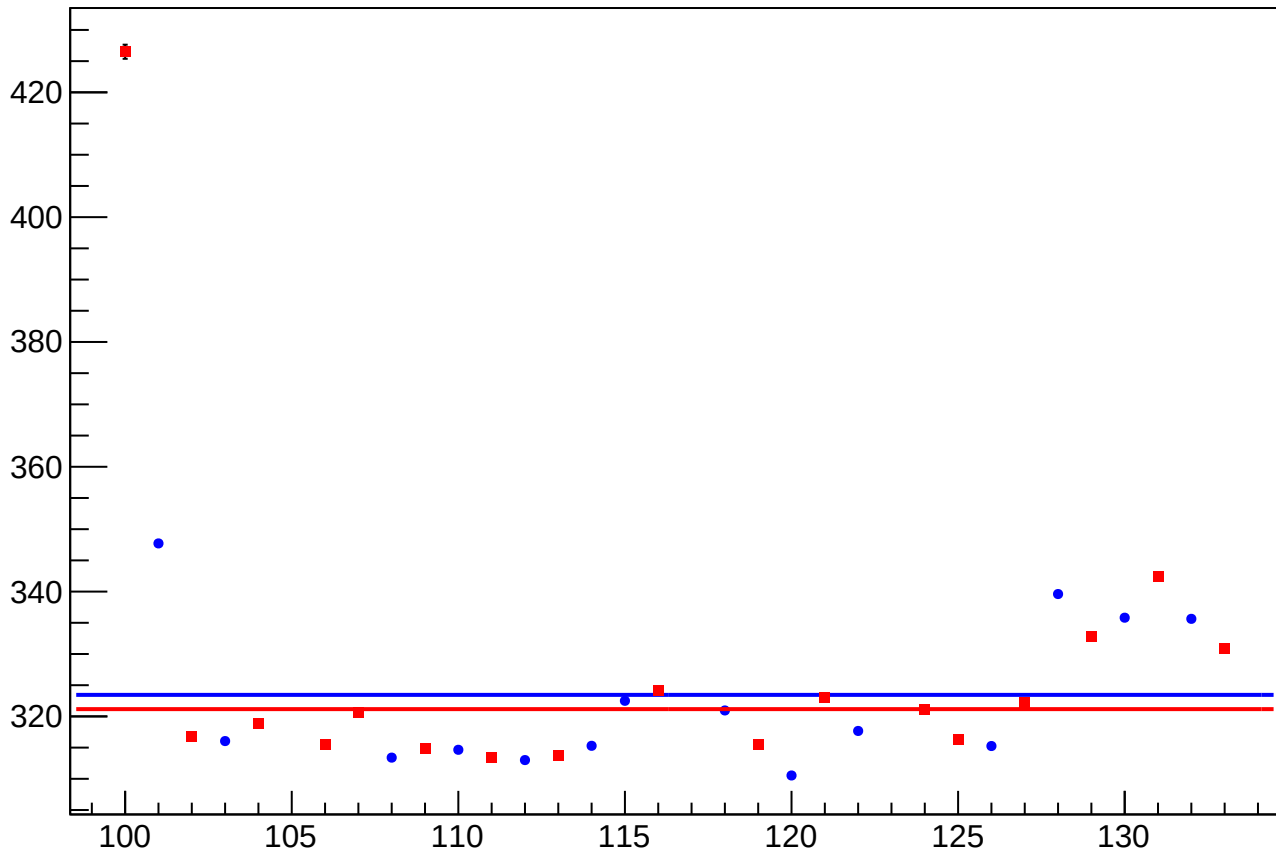
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.025 $\pm$ 0.090  $\chi^2$ /NDF: 33.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4eX\_4ecX\_dd\_rms vs Slug



Right In: 323.450 $\pm$ 0.094  $\chi^2$ /NDF: 16334.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 321.167 $\pm$ 0.087  $\chi^2$ /NDF: 16226.7/16

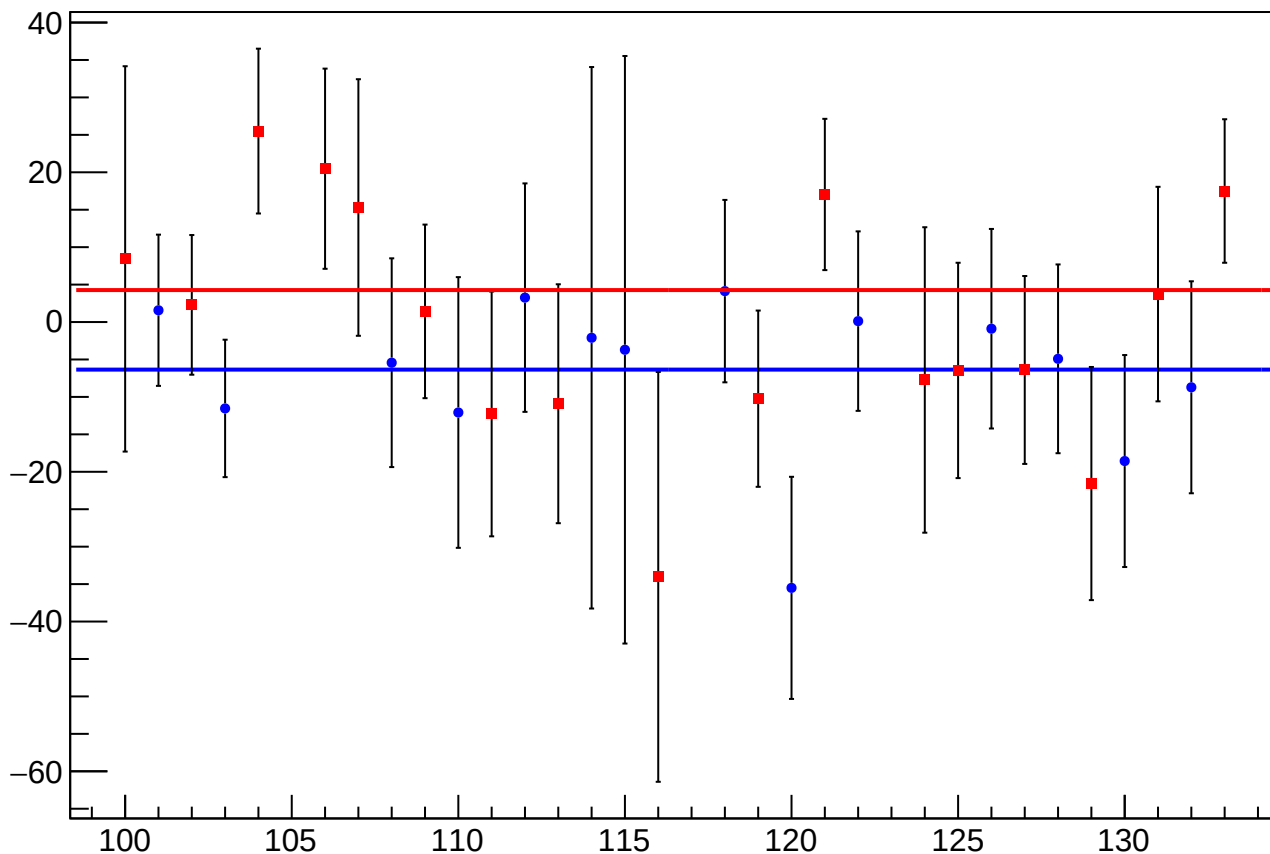
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 322.222 $\pm$ 0.064  $\chi^2$ /NDF: 32878.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4acY\_avg\_mean vs Slug



Right In: -6.353+/-3.633  $\chi^2/\text{NDF}$ : 7.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.269+/-3.207  $\chi^2/\text{NDF}$ : 19.0/16

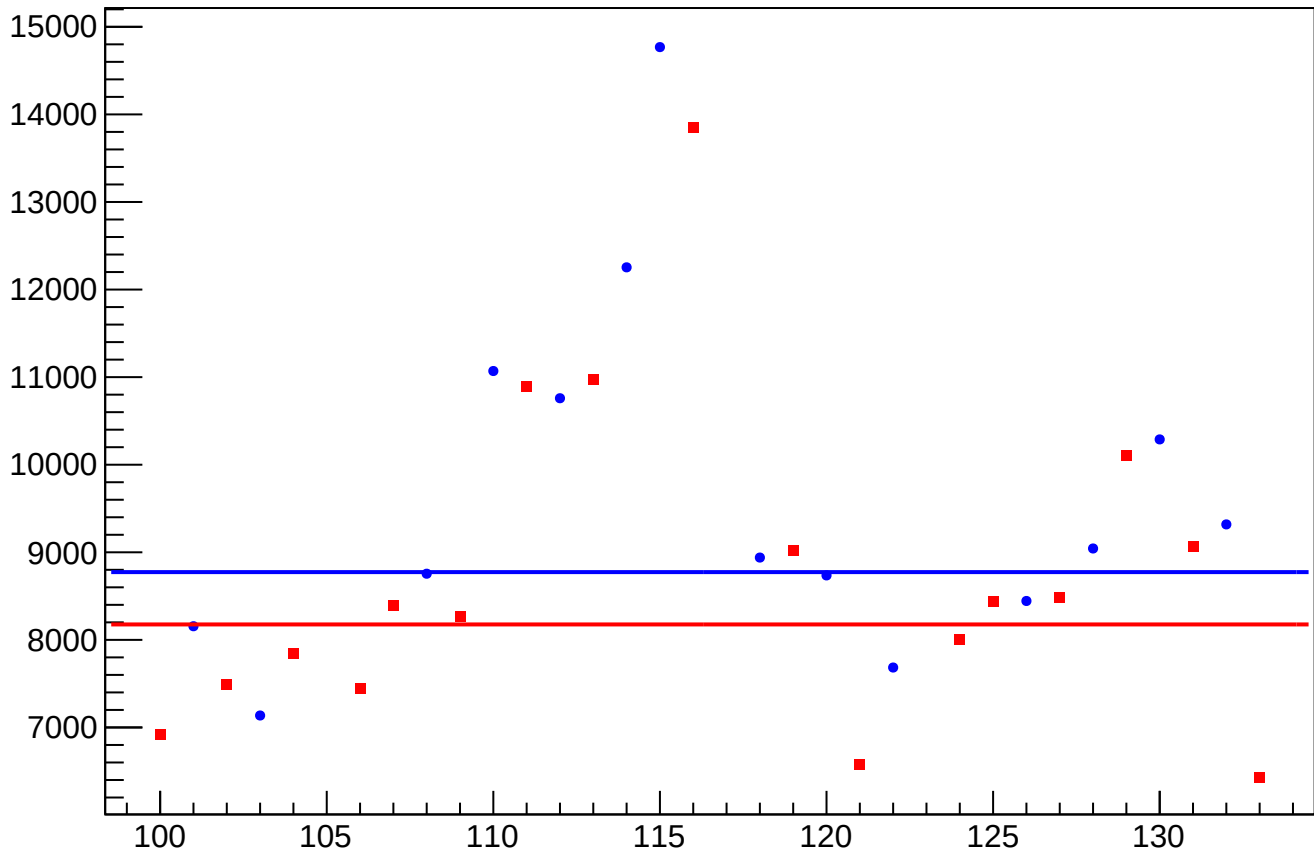
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.383+/-2.405  $\chi^2/\text{NDF}$ : 31.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aY\_4acY\_avg\_rms vs Slug



Right In: 8773.791+/-2.569  $\chi^2/\text{NDF}$ : 247434.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8176.241+/-2.268  $\chi^2/\text{NDF}$ : 393664.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

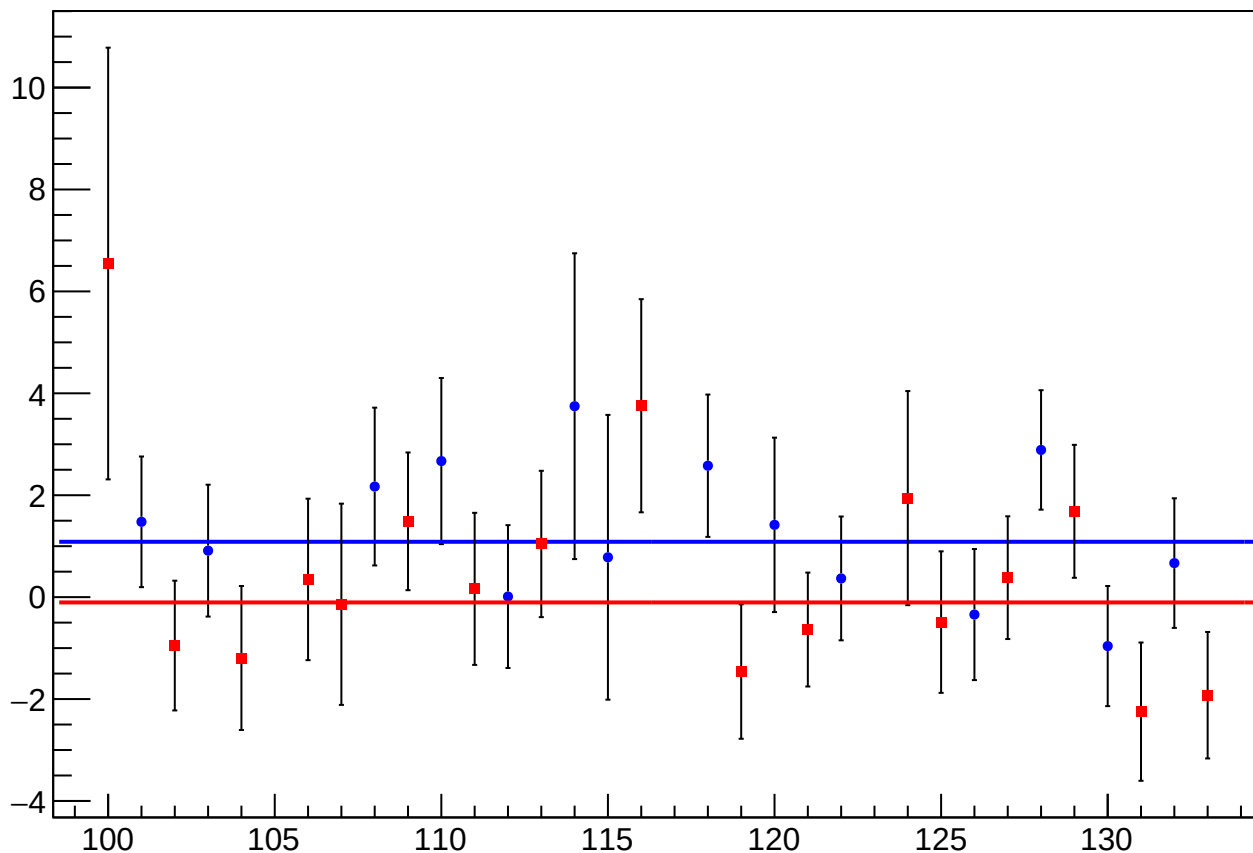
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8437.948+/-1.700  $\chi^2/\text{NDF}$ : 671500.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm\_4aY\_4acY\_dd\_mean vs Slug



Right In: 1.086 $\pm$ 0.379  $\chi^2/\text{NDF}$ : 11.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.104 $\pm$ 0.351  $\chi^2/\text{NDF}$ : 18.0/16

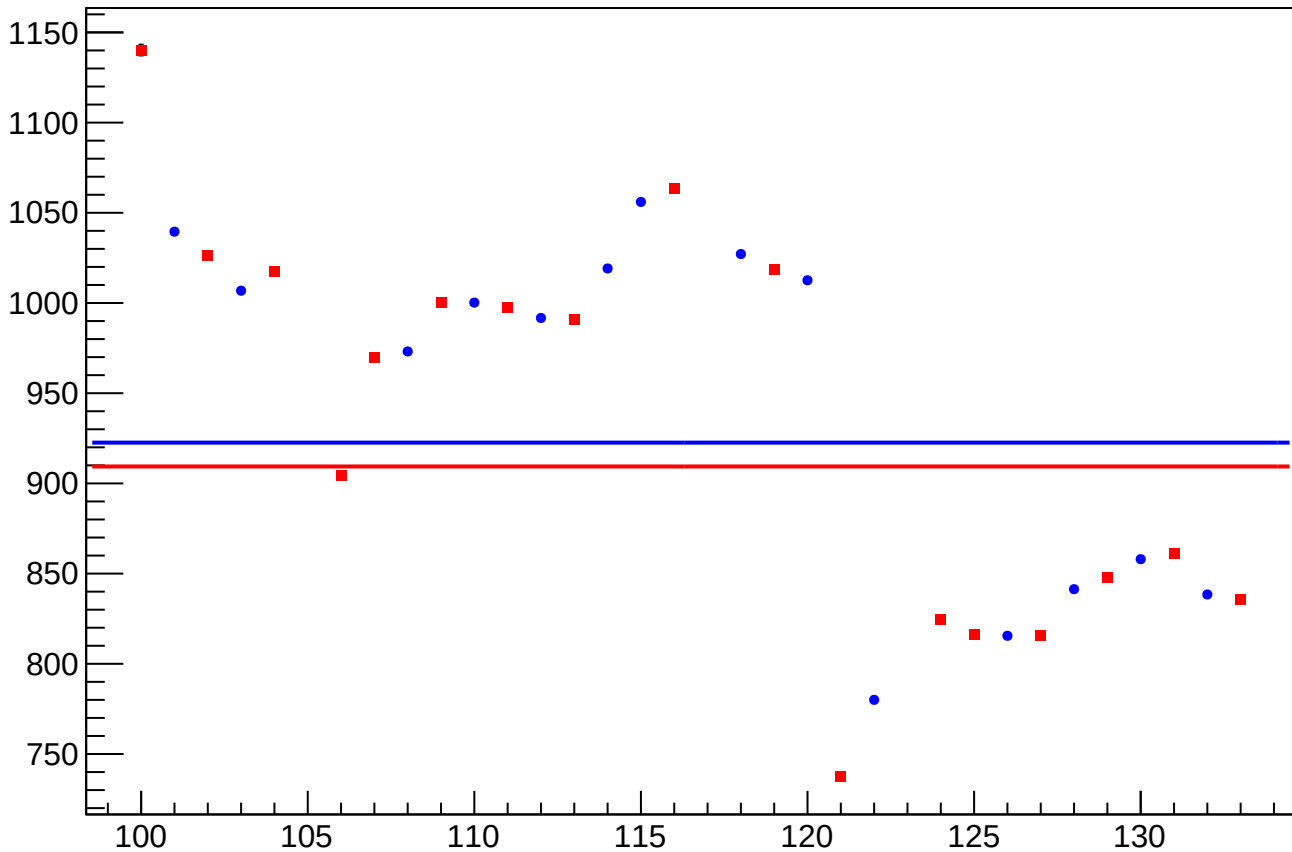
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.445 $\pm$ 0.258  $\chi^2/\text{NDF}$ : 34.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aY\_4acY\_dd\_rms vs Slug



Right In: 922.607 $\pm$ 0.268  $\chi^2$ /NDF: 125786.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 909.379 $\pm$ 0.248  $\chi^2$ /NDF: 169081.8/16

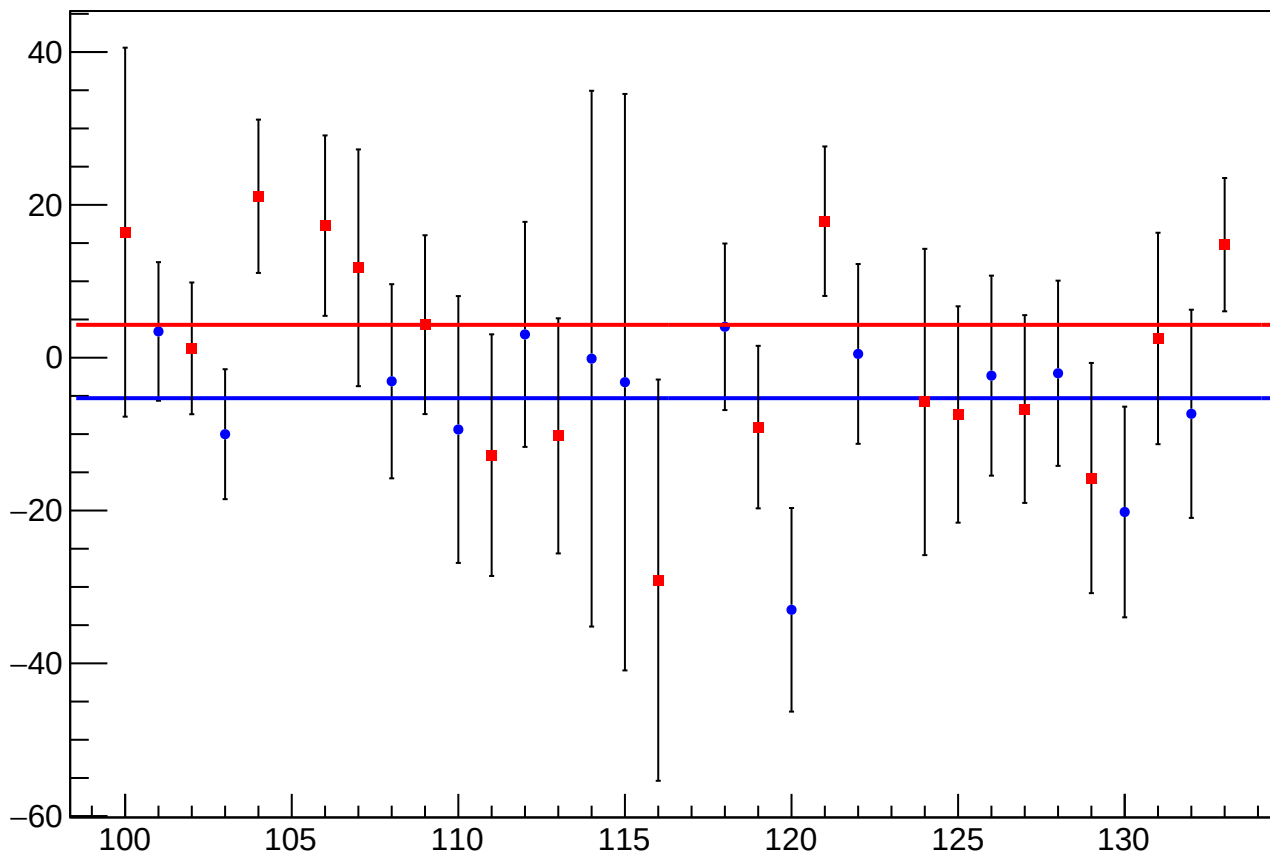
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 915.476 $\pm$ 0.182  $\chi^2$ /NDF: 296179.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

diff\_bpm\_4aY\_4eY\_avg\_mean vs Slug



Right In: -5.297+/-3.406  $\chi^2/\text{NDF}$ : 8.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.300+/-3.021  $\chi^2/\text{NDF}$ : 16.8/16

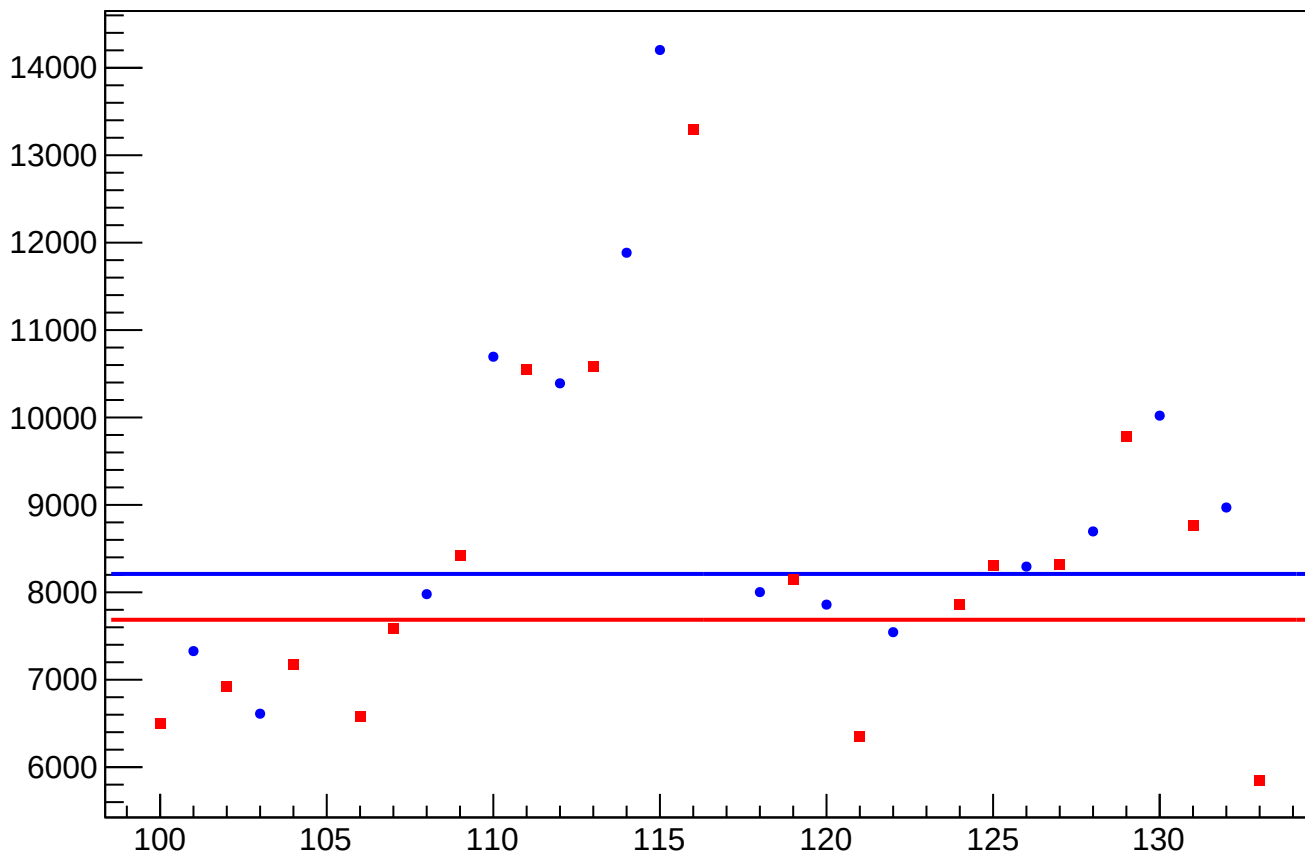
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.075+/-2.260  $\chi^2/\text{NDF}$ : 29.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aY\_4eY\_avg\_rms vs Slug



Right In: 8210.337+/-2.409  $\chi^2/\text{NDF}$ : 299721.2/13

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

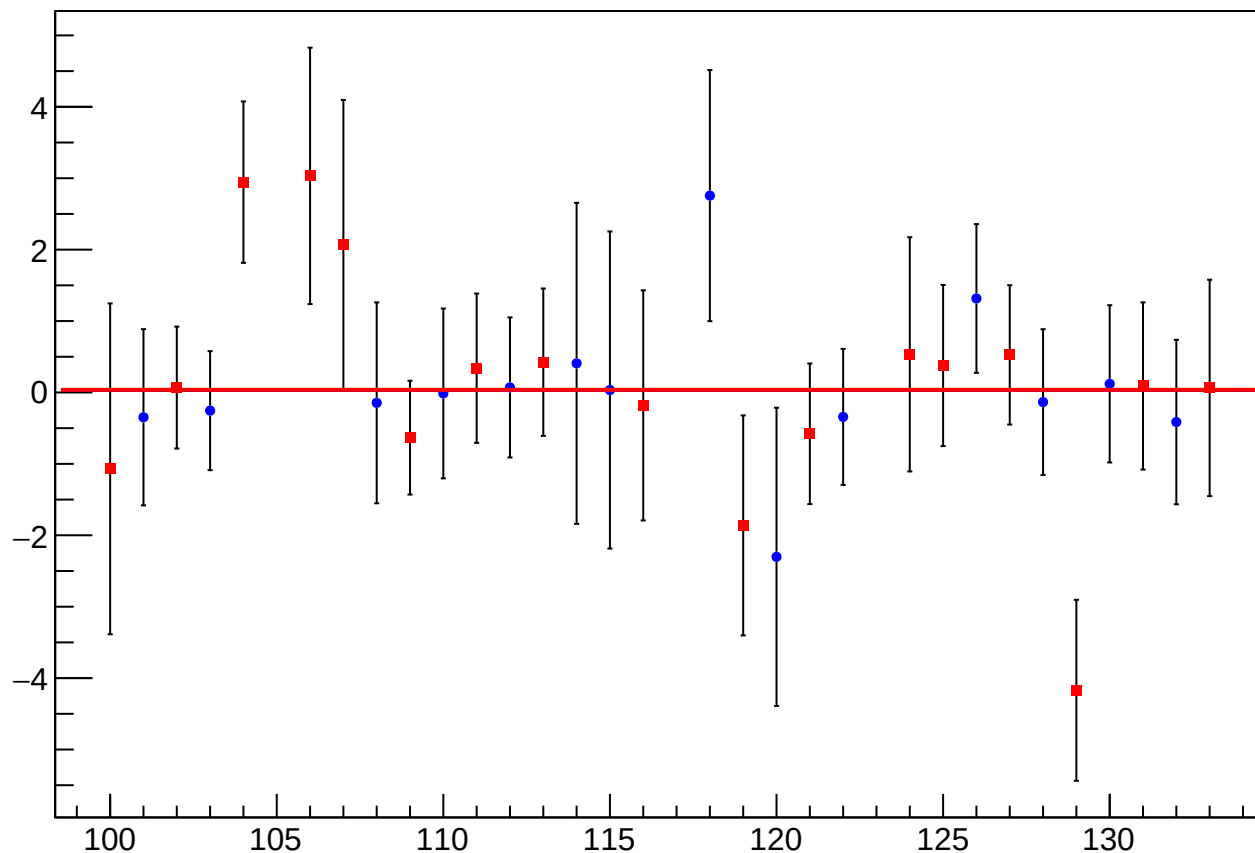
Right Out: 7686.010+/-2.136  $\chi^2/\text{NDF}$ : 468249.6/16

All: 7916.819+/-1.598  $\chi^2/\text{NDF}$ : 794497.2/30

- 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\_4aY\_4eY\_dd\_mean vs Slug



Right In:  $0.035 \pm 0.318$   $\chi^2/\text{NDF}$ : 5.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.037 \pm 0.287$   $\chi^2/\text{NDF}$ : 25.0/16

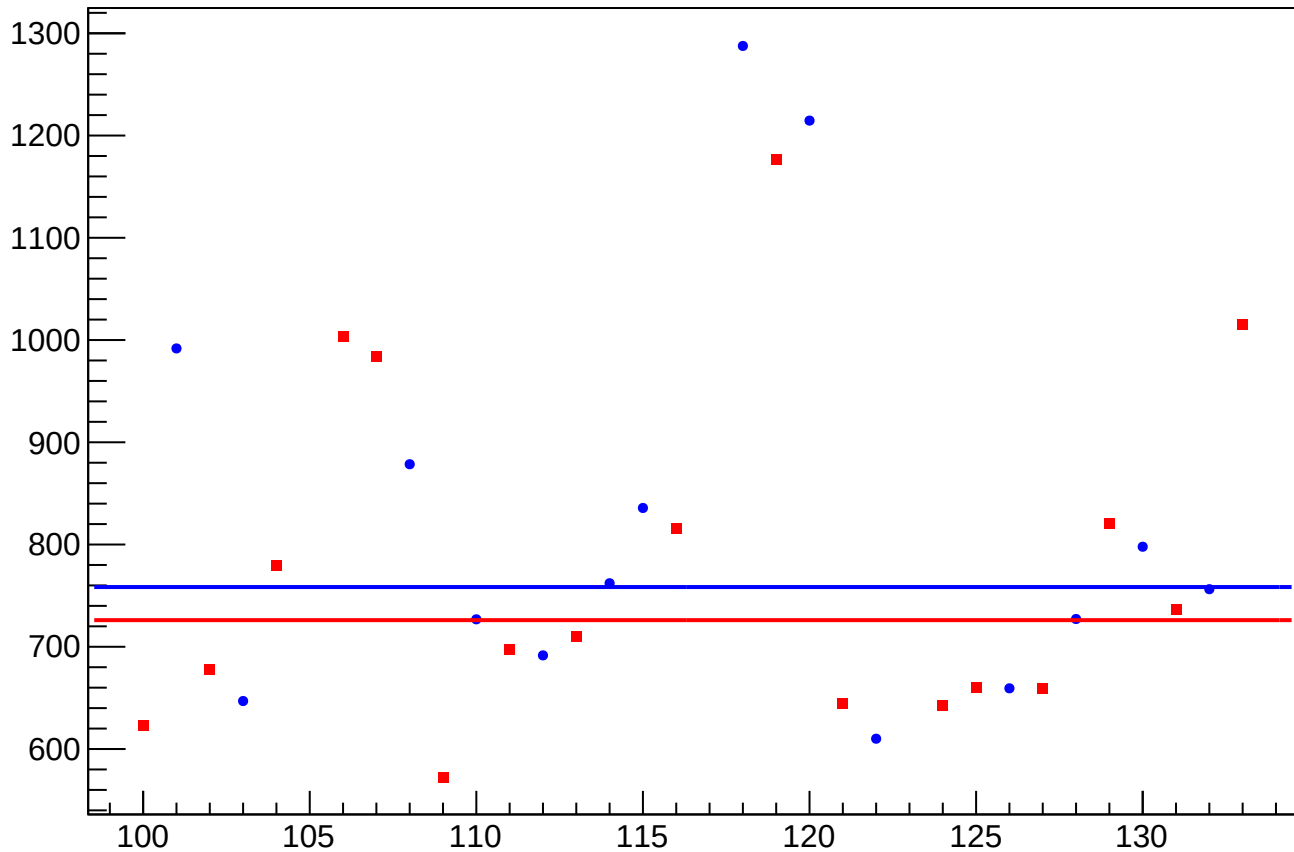
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.036 \pm 0.213$   $\chi^2/\text{NDF}$ : 30.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aY\_4eY\_dd\_rms vs Slug



Right In: 758.415 $\pm$ 0.225  $\chi^2$ /NDF: 482689.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 726.038 $\pm$ 0.203  $\chi^2$ /NDF: 467169.7/16

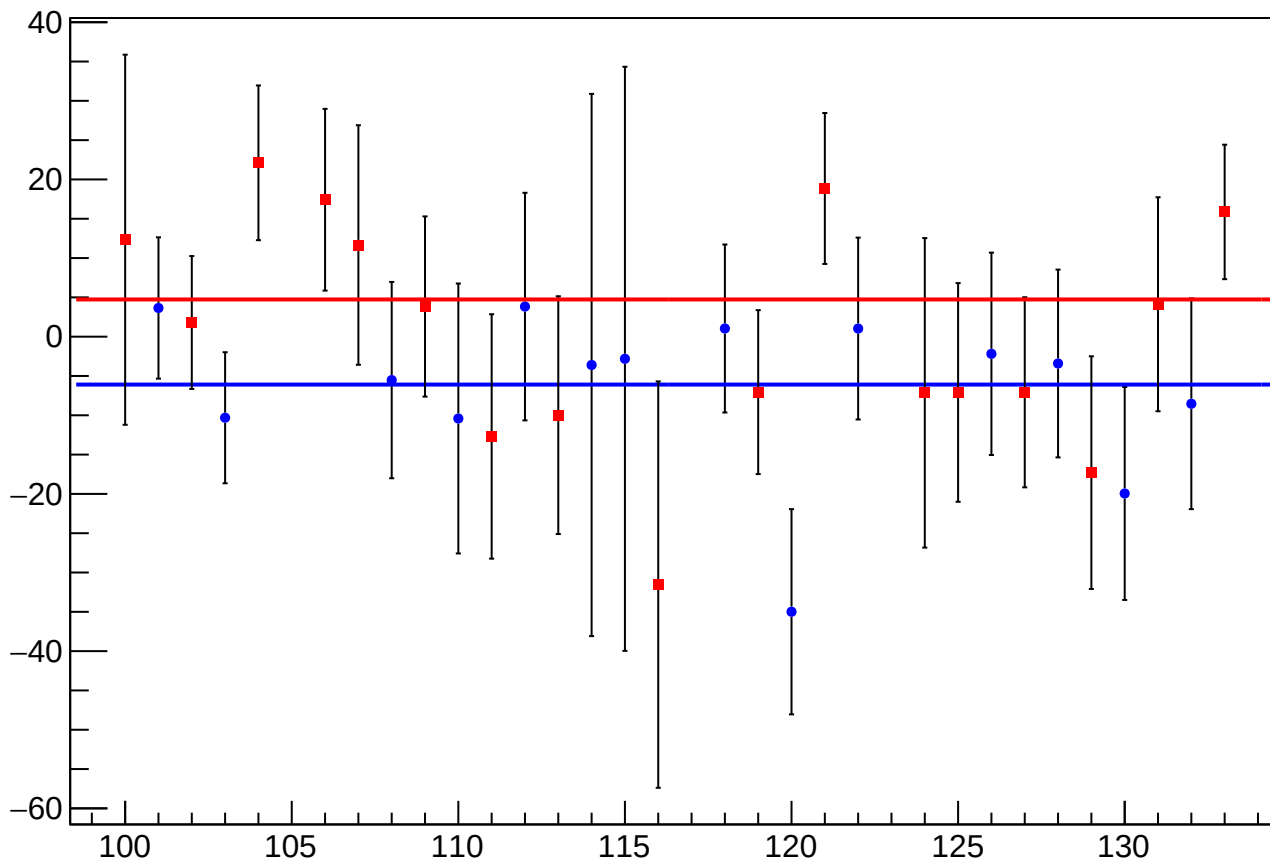
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 740.542 $\pm$ 0.151  $\chi^2$ /NDF: 961276.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4ecY\_avg\_mean vs Slug



Right In: -6.092 $\pm$ 3.351  $\chi^2$ /NDF: 8.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4.734 $\pm$ 2.964  $\chi^2$ /NDF: 18.3/16

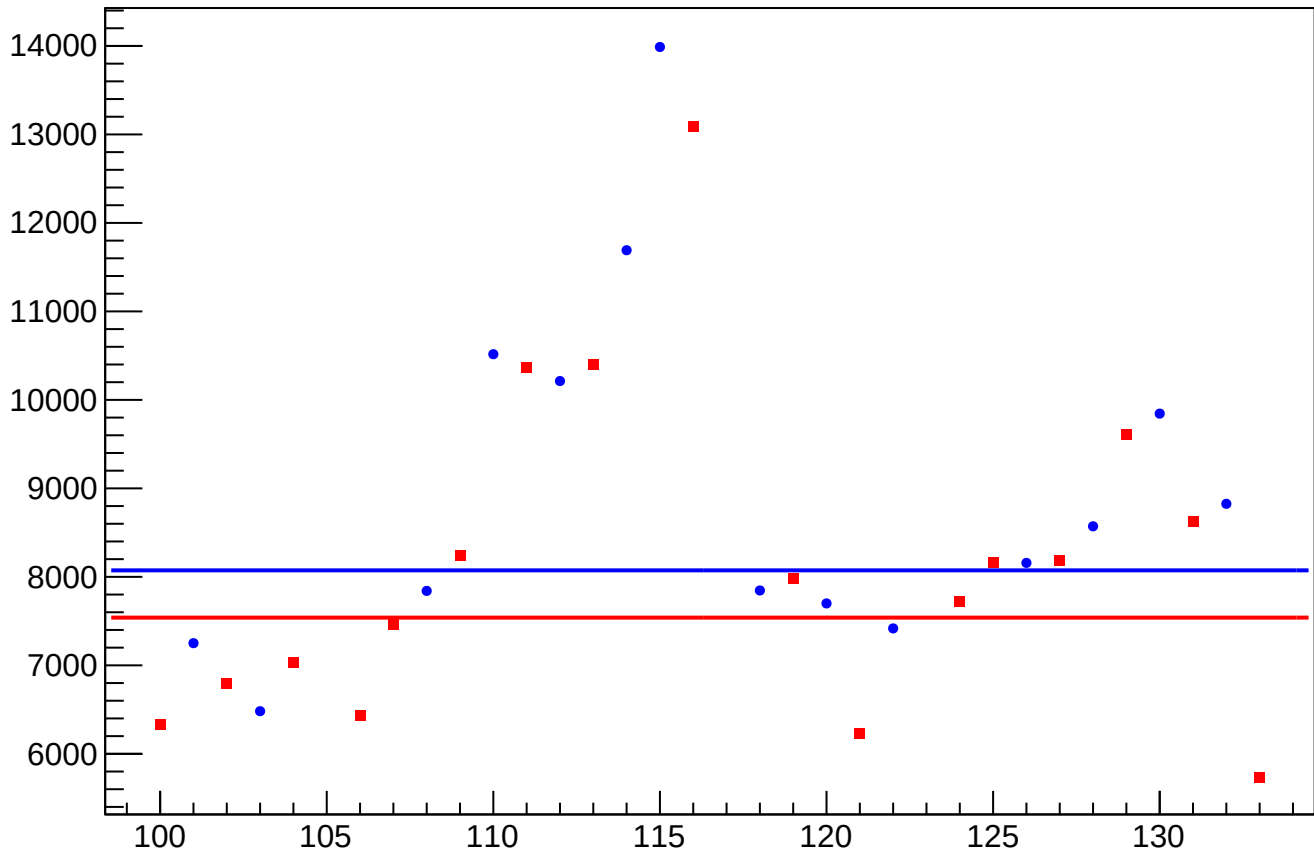
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.020 $\pm$ 2.220  $\chi^2$ /NDF: 33.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4aY\_4ecY\_avg\_rms vs Slug



Right In: 8073.537+/-2.369  $\chi^2/\text{NDF}$ : 300308.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7539.498+/-2.096  $\chi^2/\text{NDF}$ : 473224.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

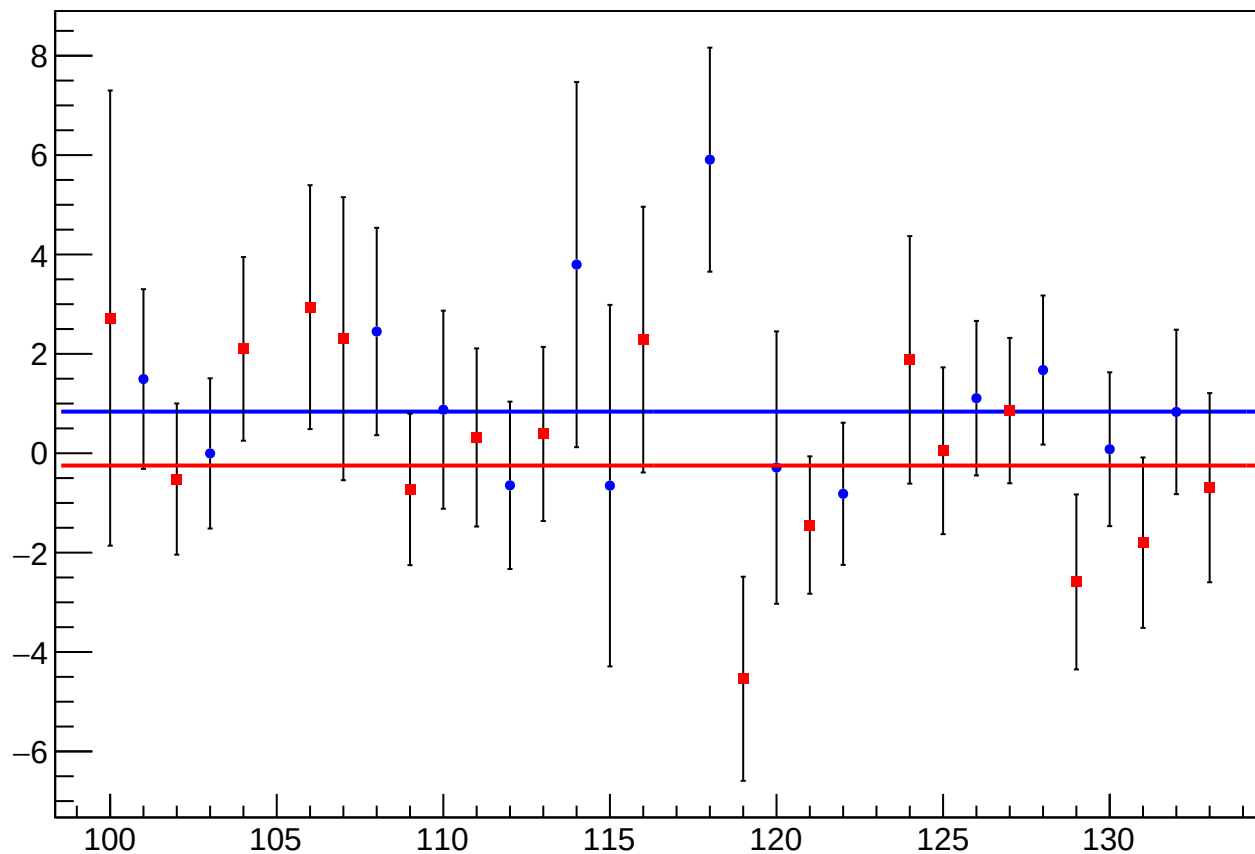
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7773.971+/-1.570  $\chi^2/\text{NDF}$ : 802033.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm\_4aY\_4ecY\_dd\_mean vs Slug



Right In:  $0.838 \pm 0.489$   $\chi^2/\text{NDF}$ : 9.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.247 \pm 0.449$   $\chi^2/\text{NDF}$ : 14.9/16

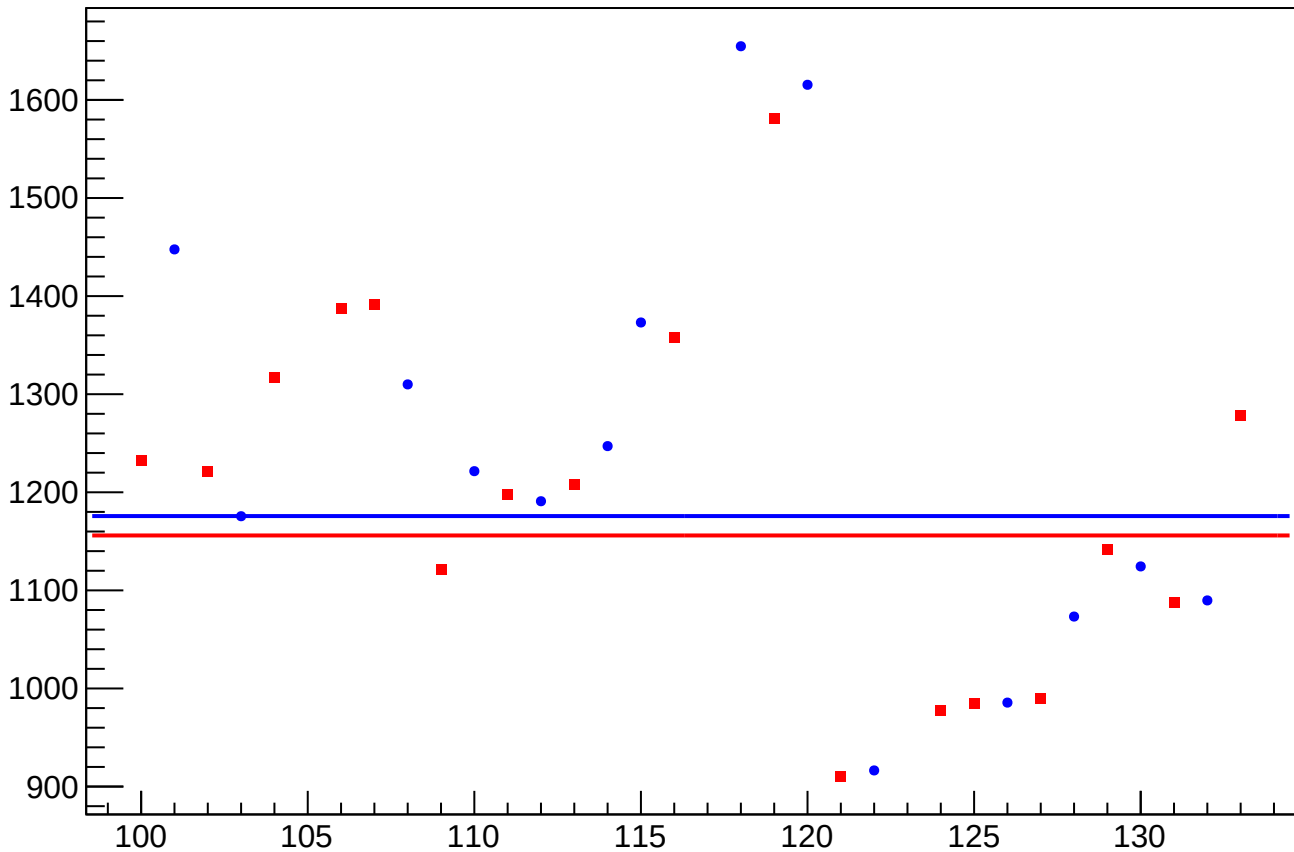
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.250 \pm 0.331$   $\chi^2/\text{NDF}$ : 27.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4aY\_4ecY\_dd\_rms vs Slug



Right In: 1175.753 $\pm$ 0.346  $\chi^2$ /NDF: 315727.3/13

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

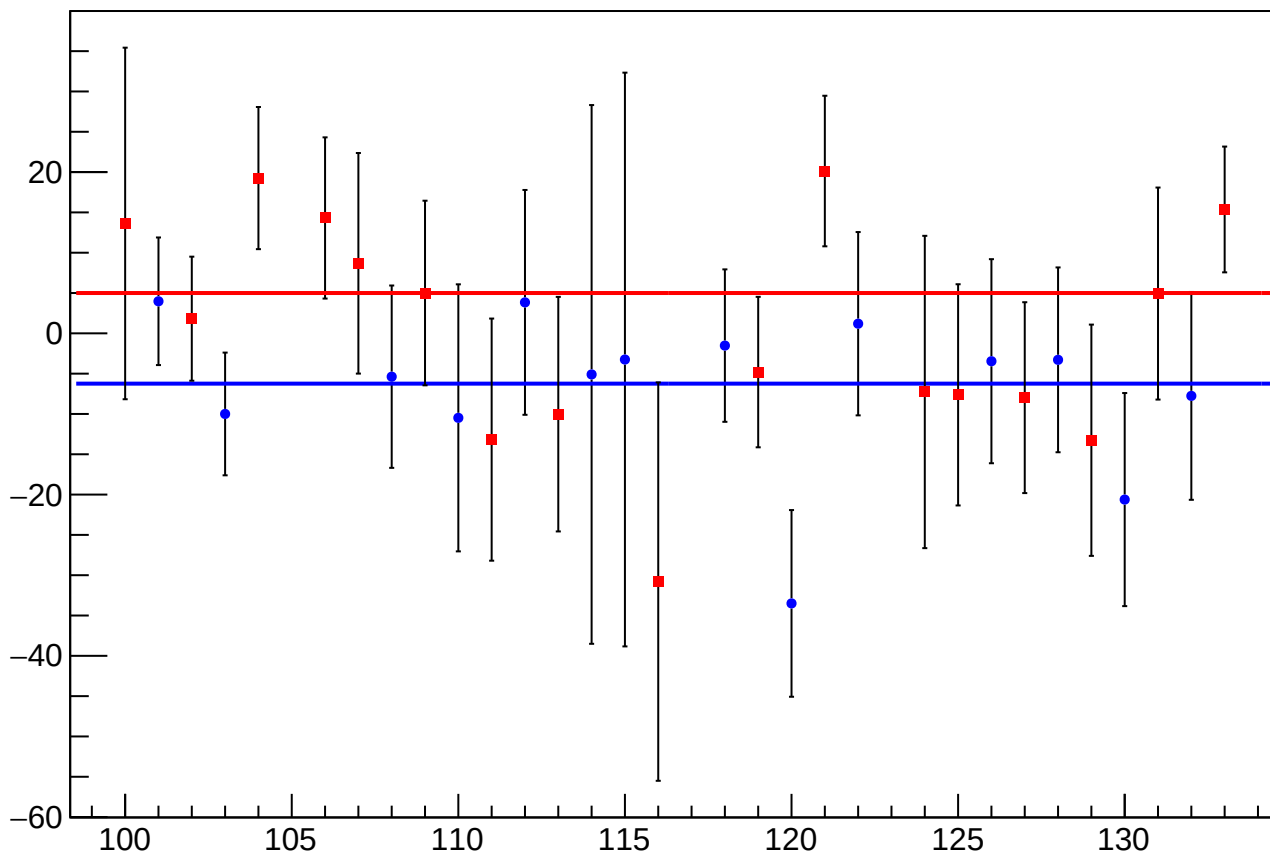
Right Out: 1155.983 $\pm$ 0.318  $\chi^2$ /NDF: 283897.5/16

All: 1165.040 $\pm$ 0.234  $\chi^2$ /NDF: 601398.2/30

- 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\_bpm\_4eY\_4ecY\_avg\_mean vs Slug



Right In:  $-6.239 \pm 3.108$   $\chi^2/\text{NDF}$ : 10.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $5.001 \pm 2.765$   $\chi^2/\text{NDF}$ : 18.1/16

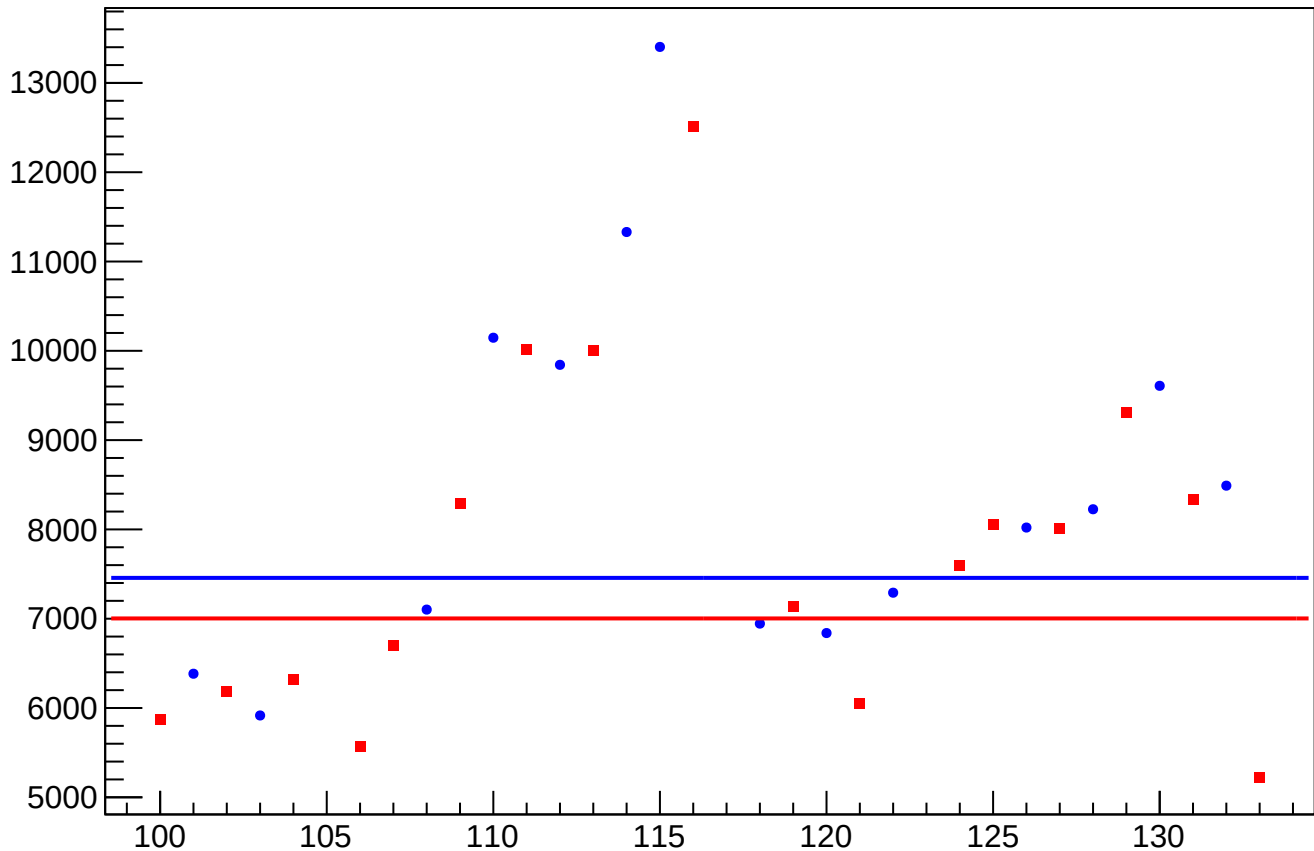
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.035 \pm 2.066$   $\chi^2/\text{NDF}$ : 35.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4eY\_4ecY\_avg\_rms vs Slug



Right In: 7457.186+/-2.198  $\chi^2/\text{NDF}$ : 405545.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7002.950+/-1.955  $\chi^2/\text{NDF}$ : 598895.7/16

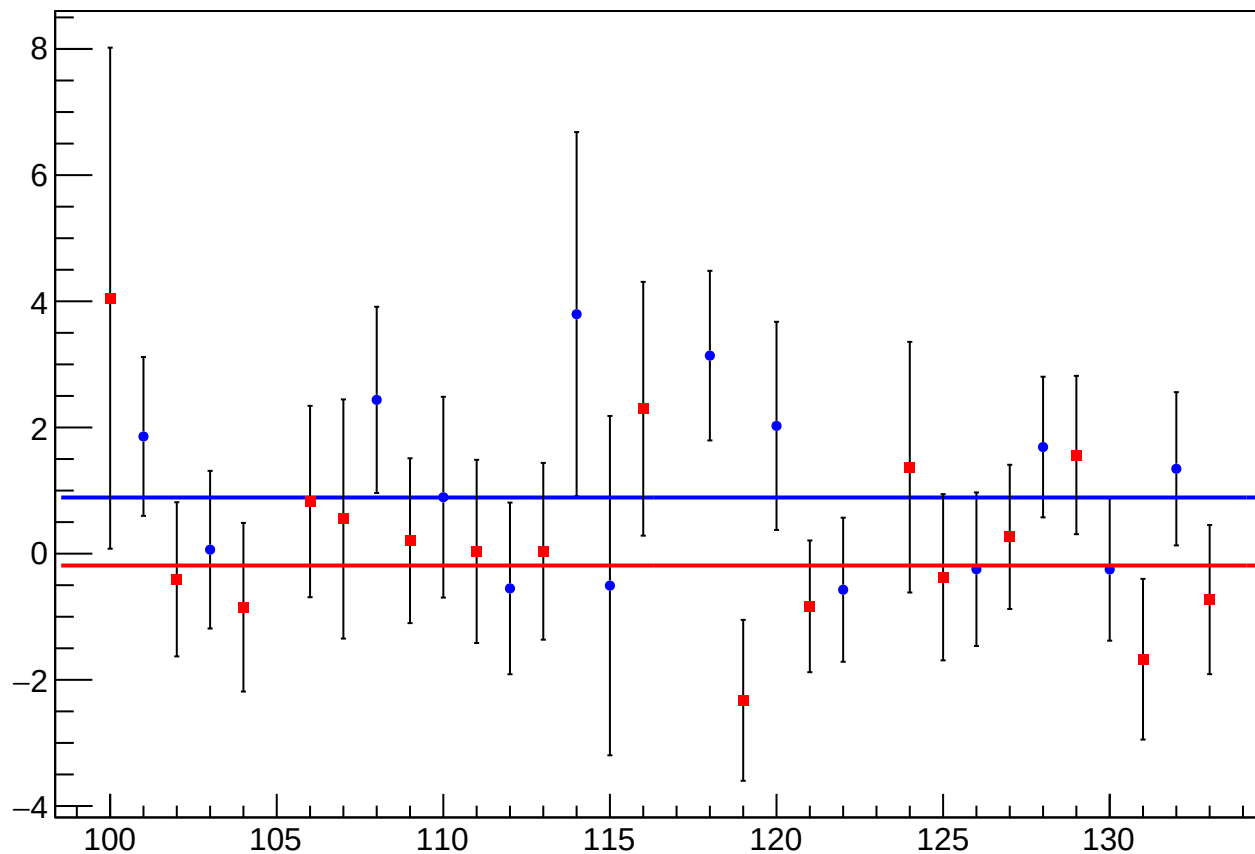
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7203.630+/-1.461  $\chi^2/\text{NDF}$ : 1028286.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm\_4eY\_4ecY\_dd\_mean vs Slug



Right In: 0.890 $\pm$ 0.364  $\chi^2$ /NDF: 12.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.188 $\pm$ 0.335  $\chi^2$ /NDF: 11.2/16

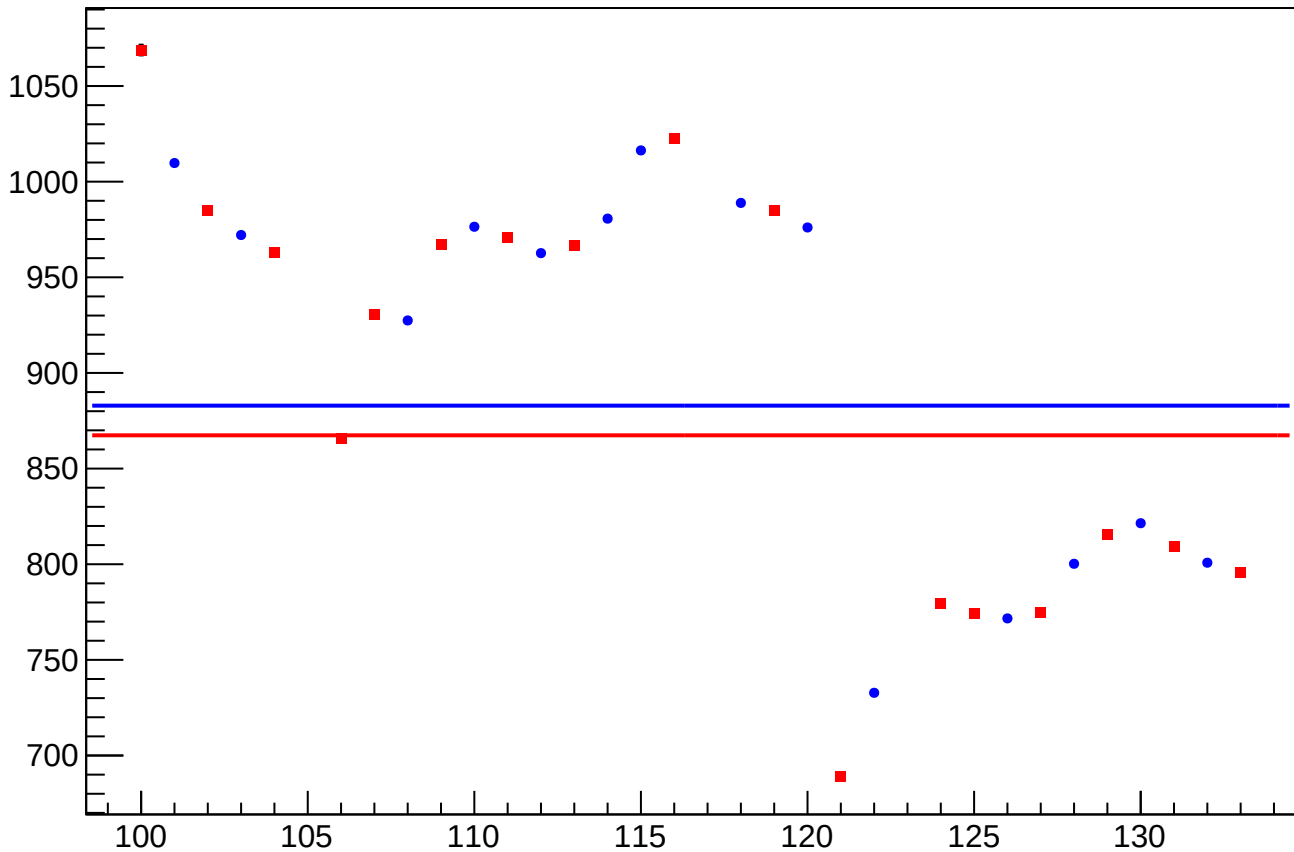
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.307 $\pm$ 0.246  $\chi^2$ /NDF: 27.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm\_4eY\_4ecY\_dd\_rms vs Slug



Right In: 882.901 $\pm$ 0.257  $\chi^2$ /NDF: 149465.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 867.390 $\pm$ 0.237  $\chi^2$ /NDF: 197202.9/16

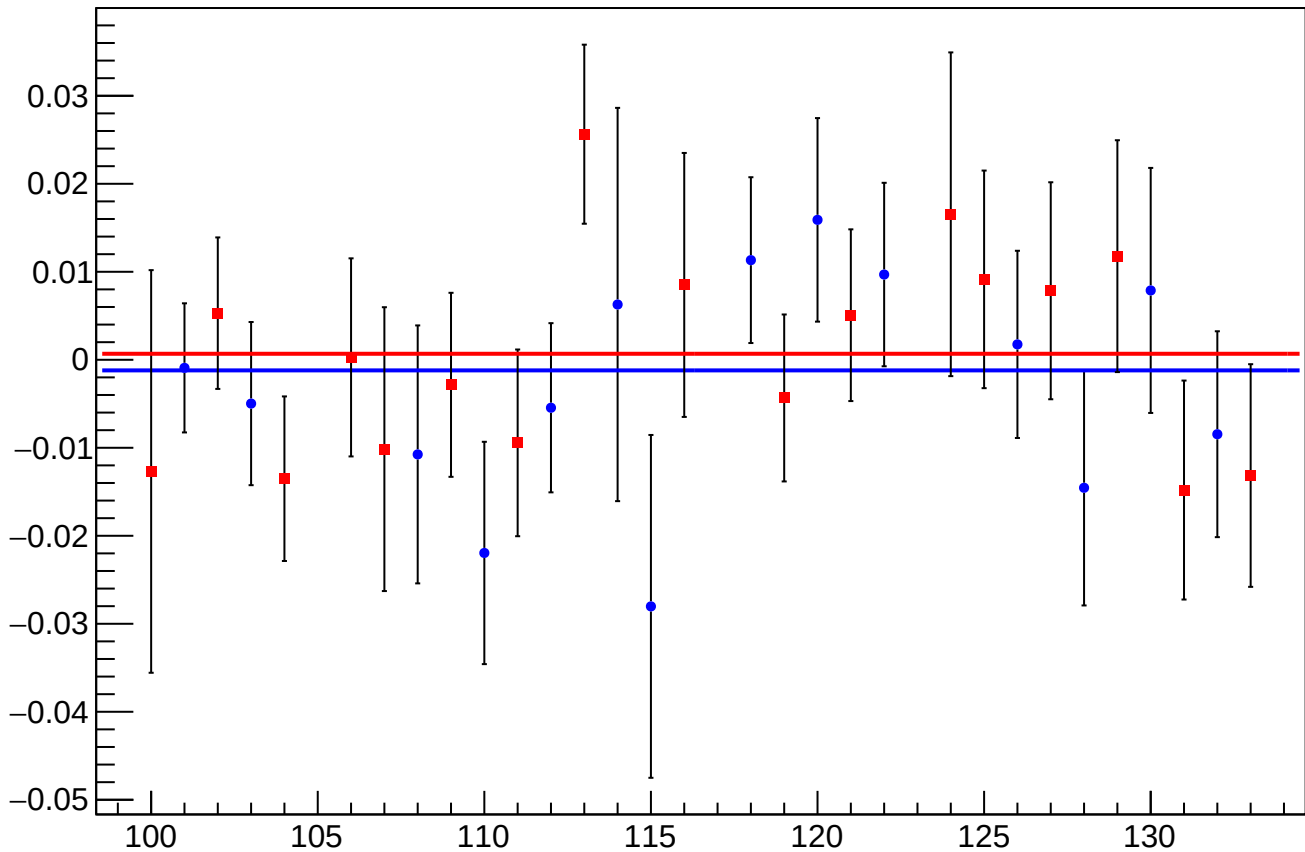
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 874.504 $\pm$ 0.174  $\chi^2$ /NDF: 348636.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_dispE\_bpm12X\_mean vs Slug



Right In: -0.001 $\pm$ 0.003  $\chi^2$ /NDF: 12.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.001 $\pm$ 0.003  $\chi^2$ /NDF: 16.2/16

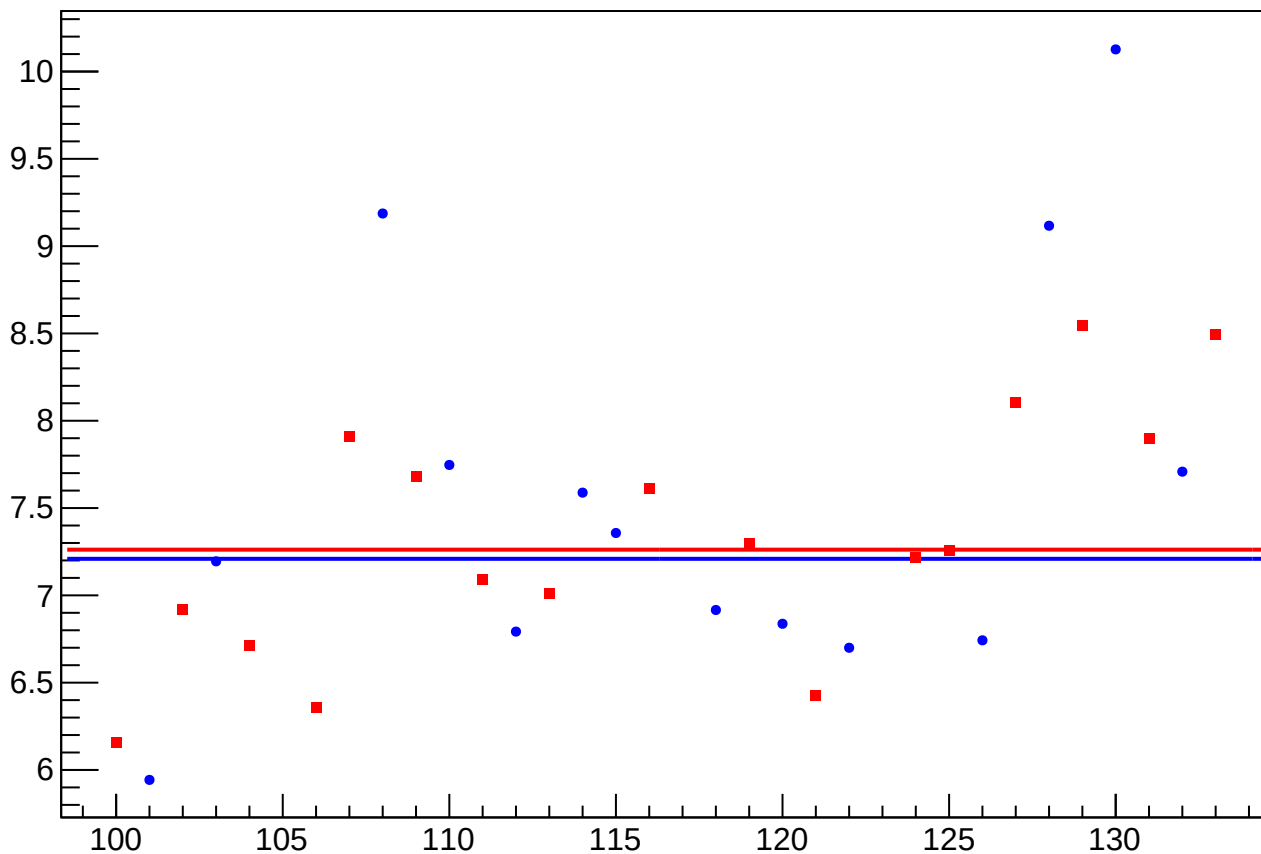
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.002  $\chi^2$ /NDF: 28.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_dispE\_bpm12X\_rms vs Slug



Right In: 7.209 $\pm$ 0.002  $\chi^2$ /NDF: 248867.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7.262 $\pm$ 0.002  $\chi^2$ /NDF: 104060.6/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

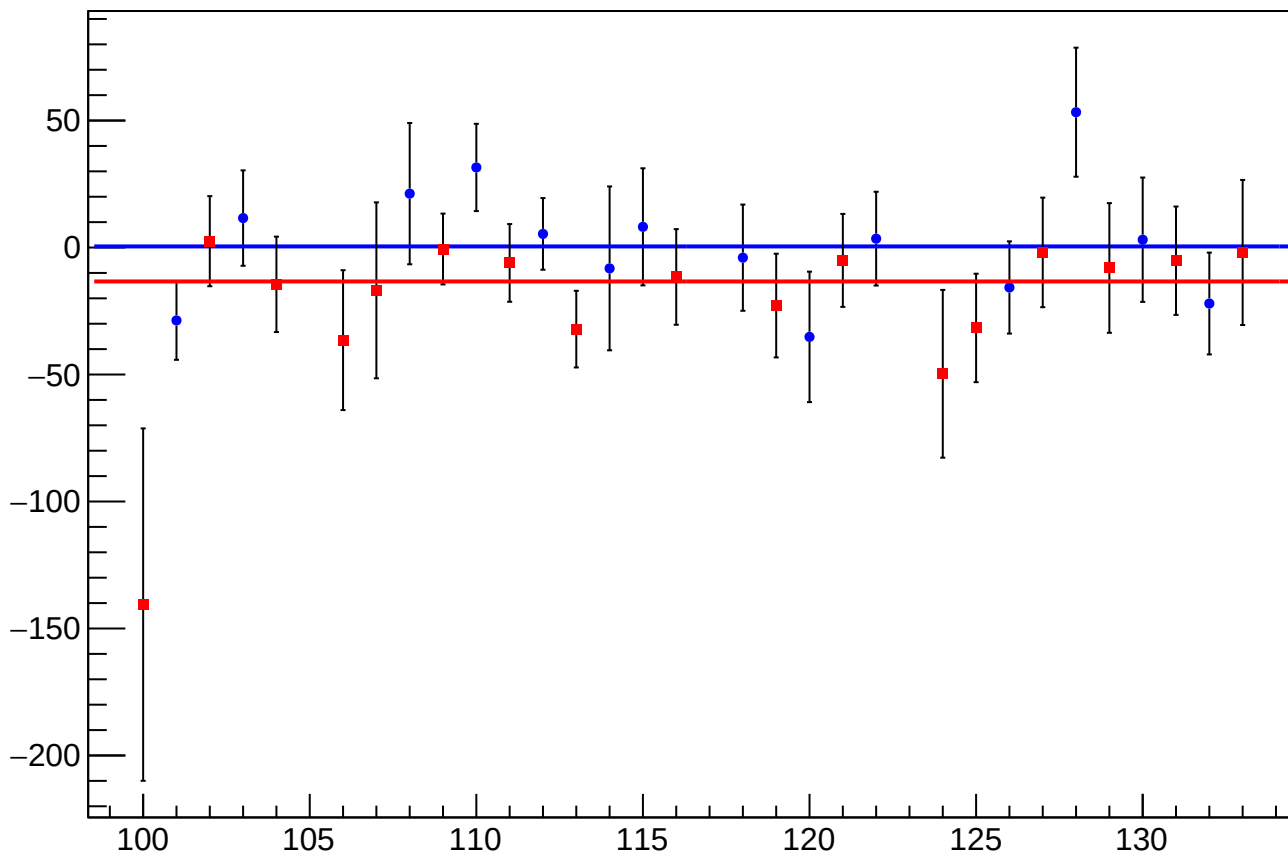
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.237 $\pm$ 0.001  $\chi^2$ /NDF: 353255.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_targ\_positionX\_mean vs Slug



Right In: 0.438+/-5.344  $\chi^2/\text{NDF}$ : 16.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13.355+/-4.963  $\chi^2/\text{NDF}$ : 10.5/16

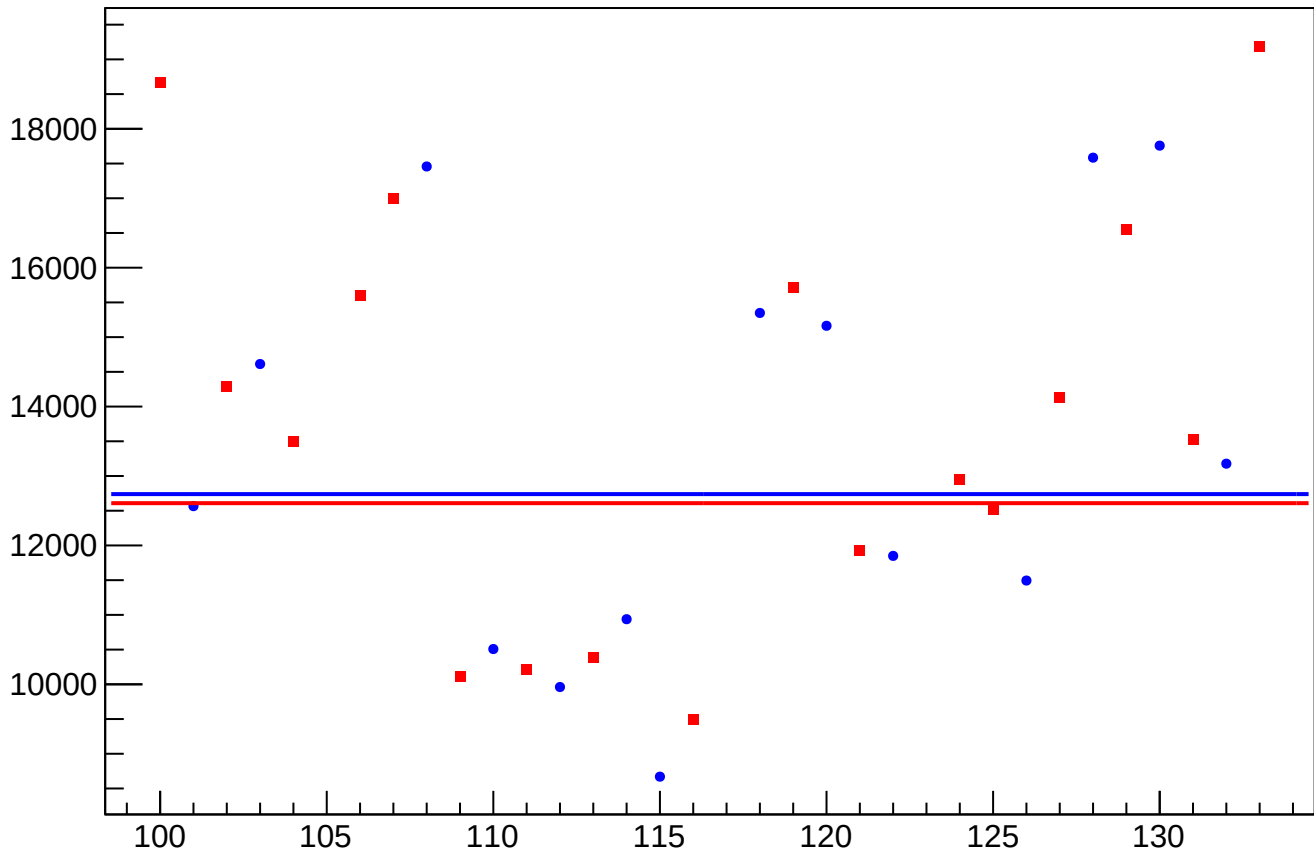
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.968+/-3.637  $\chi^2/\text{NDF}$ : 30.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_positionX\_rms vs Slug



Right In: 12739.348+/-3.779  $\chi^2/\text{NDF}$ : 478300.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12608.918+/-3.509  $\chi^2/\text{NDF}$ : 521624.3/16

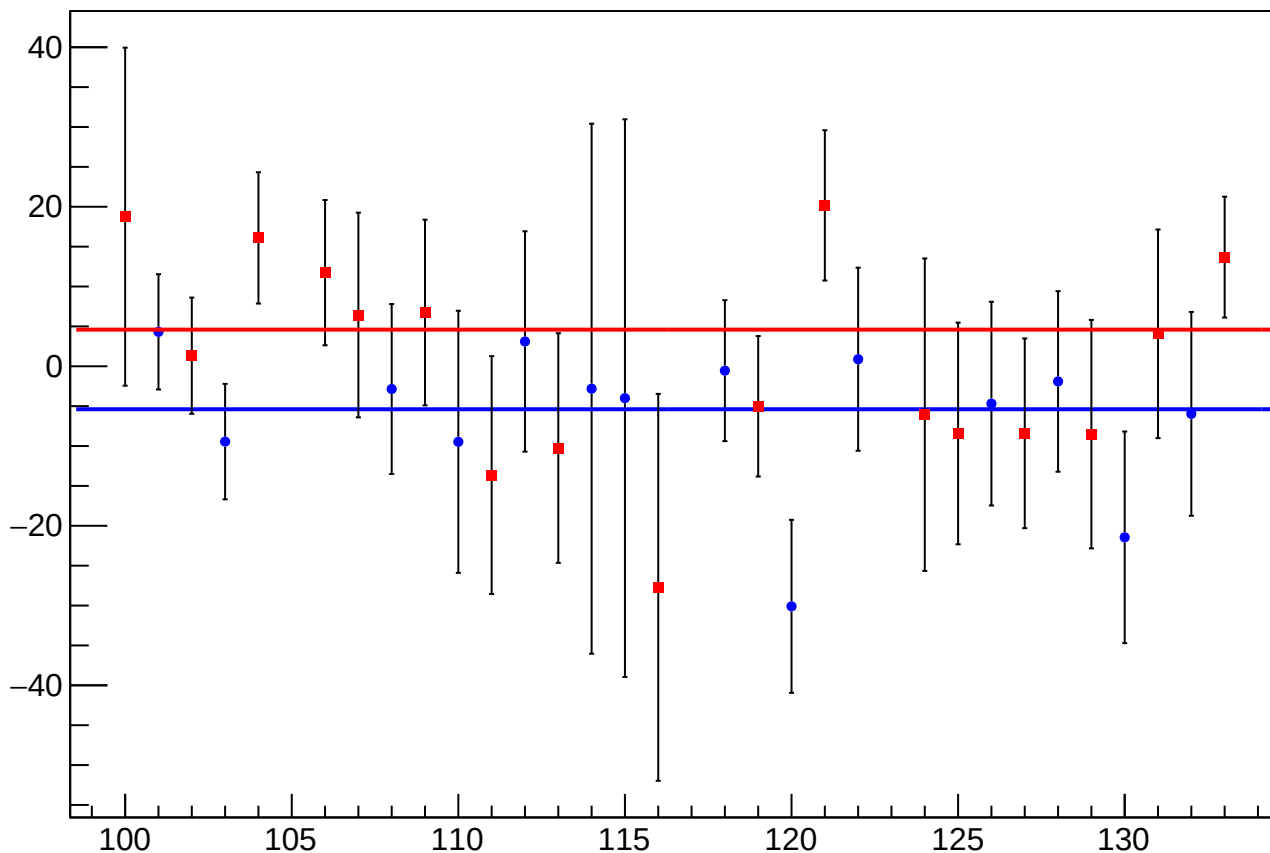
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12669.315+/-2.572  $\chi^2/\text{NDF}$ : 1000564.8/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_positionY\_mean vs Slug



Right In: -5.389+/-2.984  $\chi^2/\text{NDF}$ : 10.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.594+/-2.678  $\chi^2/\text{NDF}$ : 16.2/16

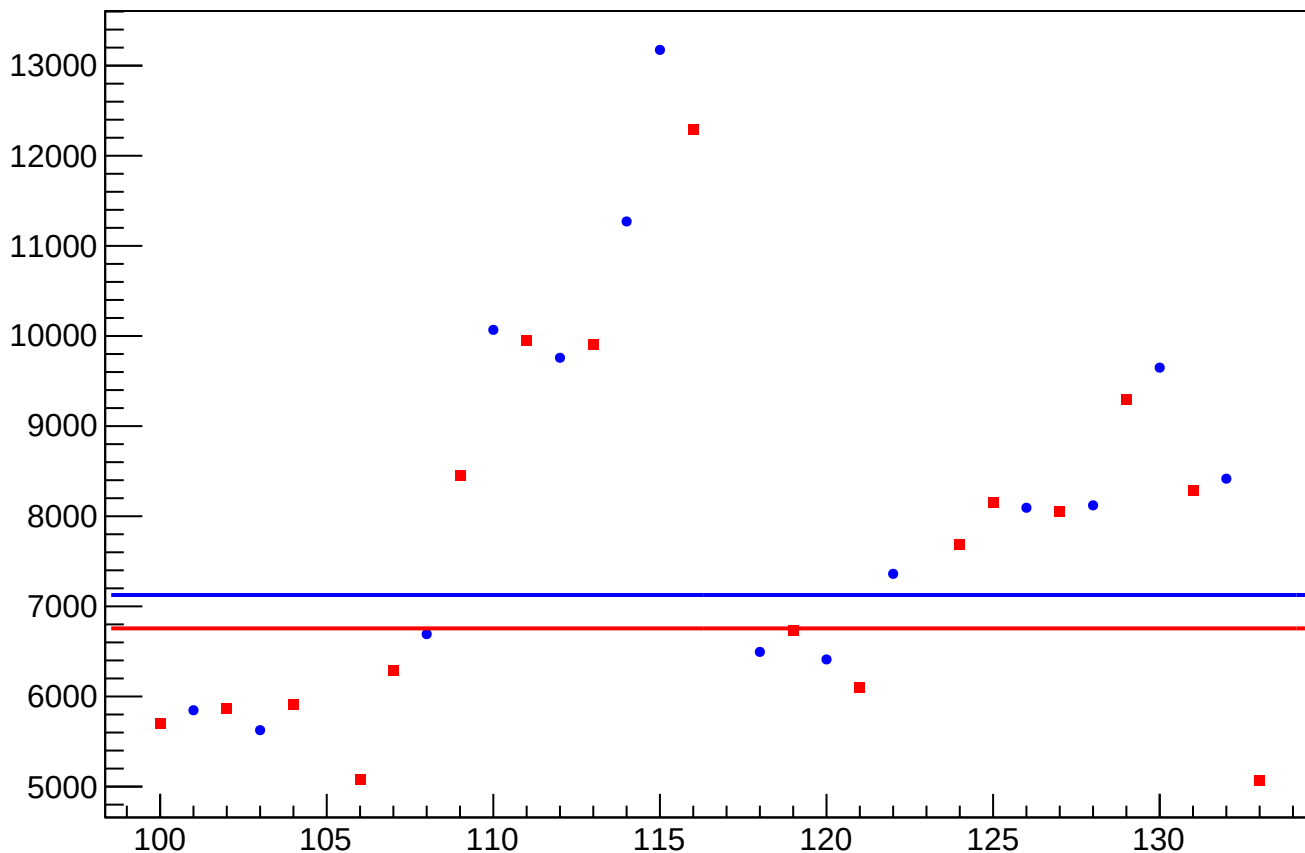
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.140+/-1.993  $\chi^2/\text{NDF}$ : 32.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_positionY\_rms vs Slug



Right In: 7126.325+/-2.110  $\chi^2/\text{NDF}$ : 518812.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6755.482+/-1.893  $\chi^2/\text{NDF}$ : 708344.6/16

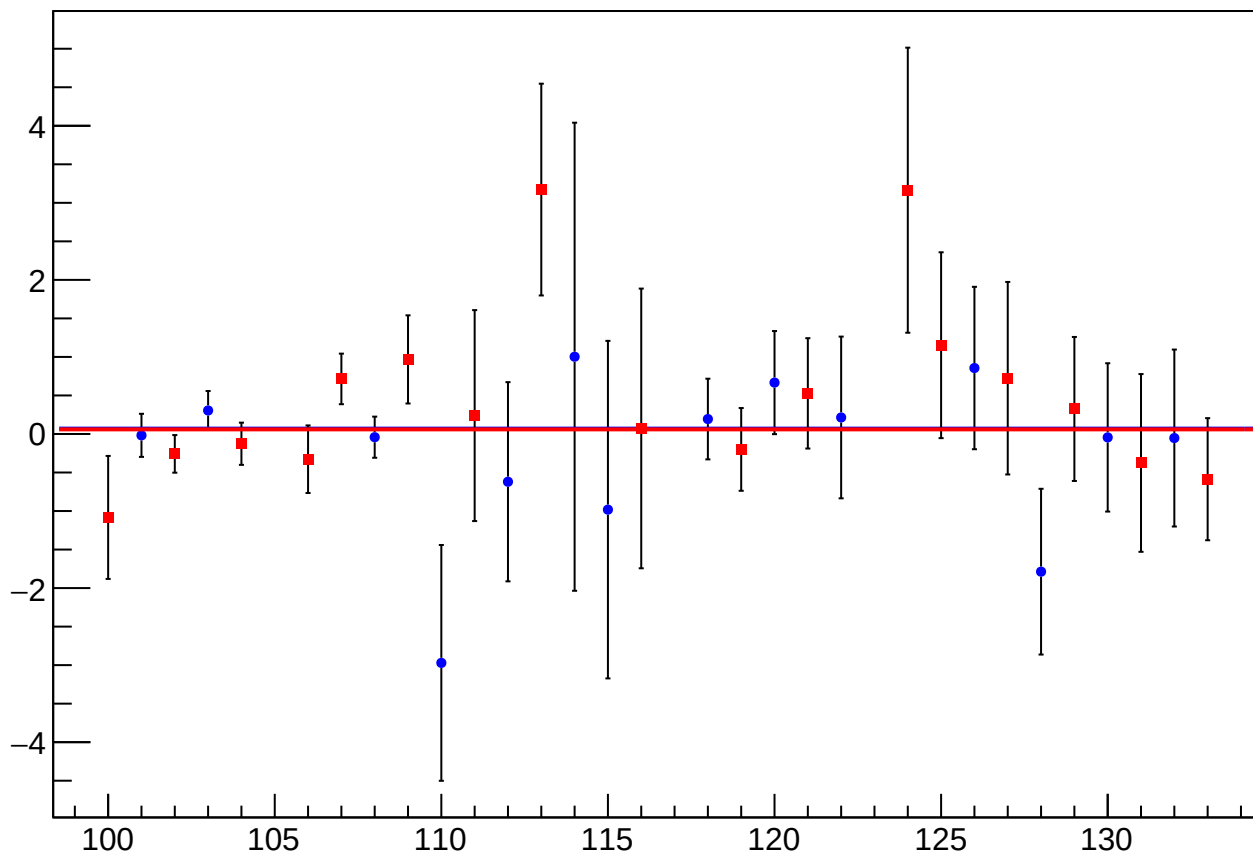
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6920.919+/-1.409  $\chi^2/\text{NDF}$ : 1244272.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_thetaX\_mean vs Slug



Right In: 0.069+/-0.136  $\chi^2/\text{NDF}$ : 10.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.060+/-0.128  $\chi^2/\text{NDF}$ : 22.1/16

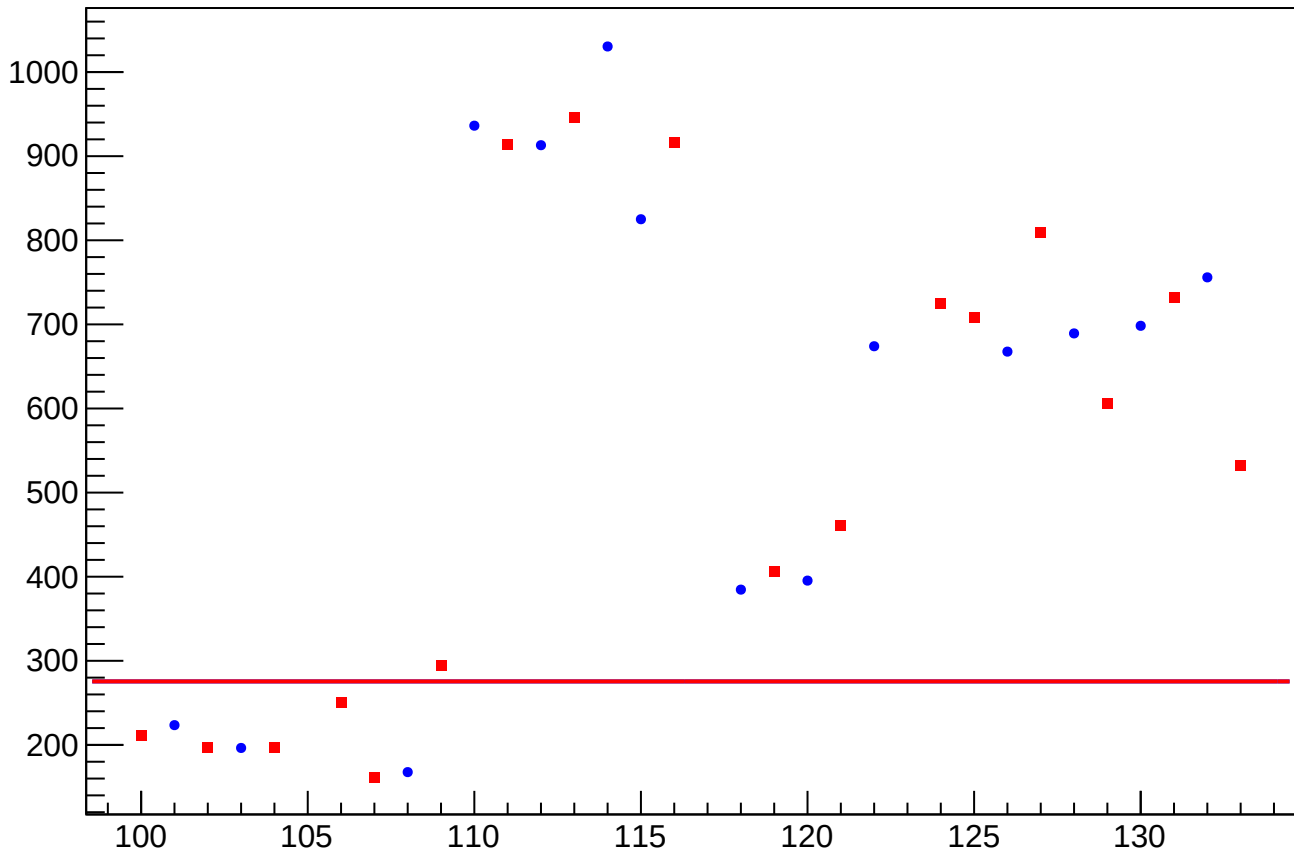
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.064+/-0.093  $\chi^2/\text{NDF}$ : 32.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_thetaX\_rms vs Slug



Right In: 275.464+/-0.096  $\chi^2/\text{NDF}$ : 3449332.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 275.526+/-0.090  $\chi^2/\text{NDF}$ : 3566852.7/16

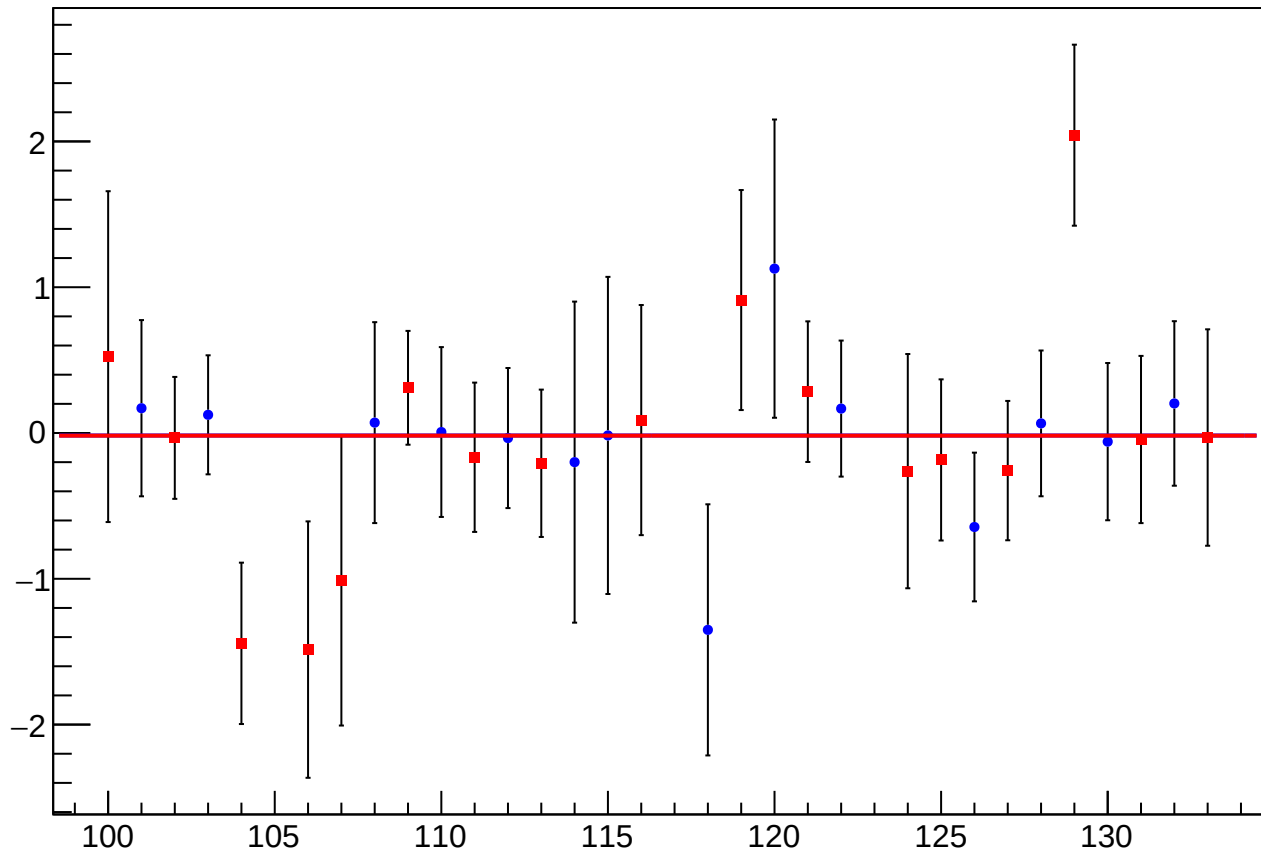
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 275.497+/-0.066  $\chi^2/\text{NDF}$ : 7016185.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_targ\_thetaY\_mean vs Slug



Right In:  $-0.017 \pm 0.156$   $\chi^2/\text{NDF}: 5.8/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.018 \pm 0.140$   $\chi^2/\text{NDF}: 25.0/16$

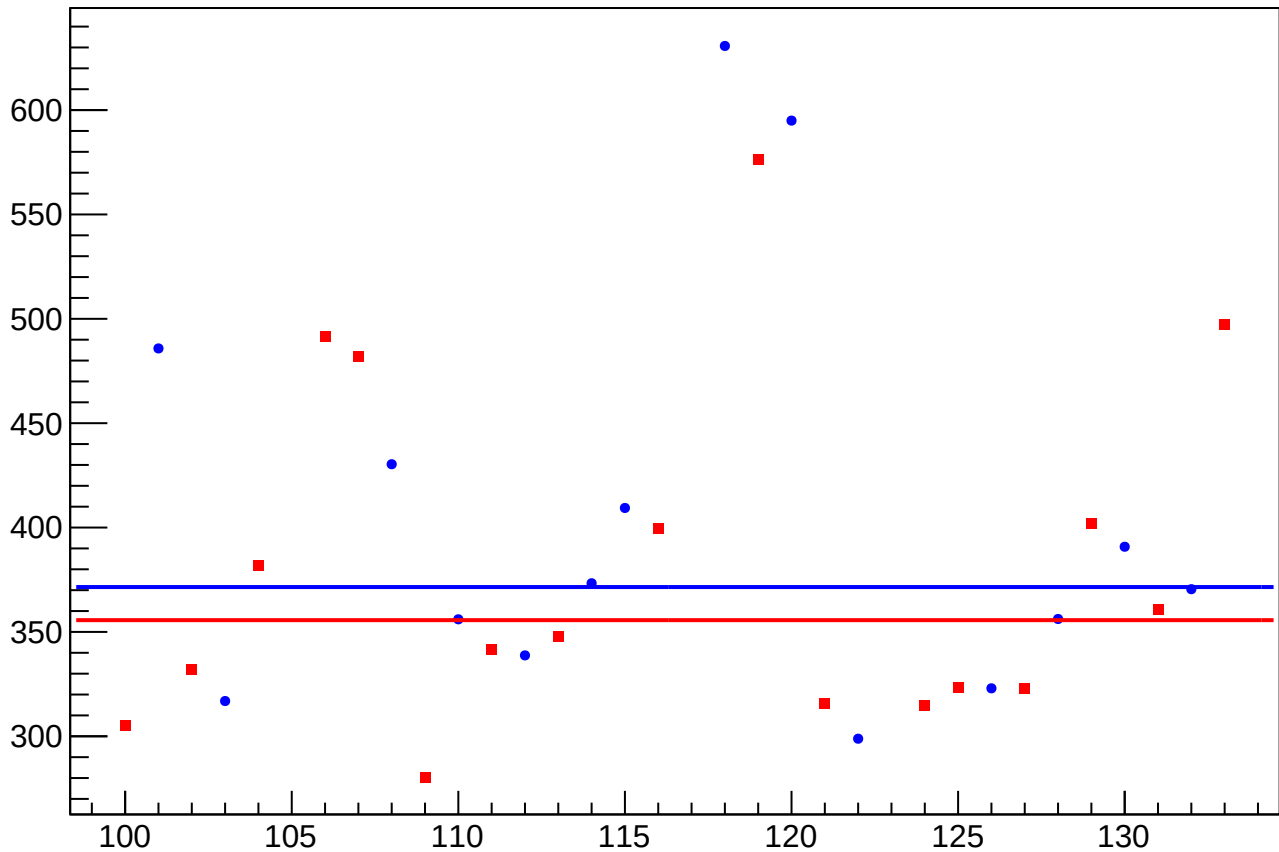
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.018 \pm 0.104$   $\chi^2/\text{NDF}: 30.7/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# diff\_targ\_thetaY\_rms vs Slug



Right In: 371.499+/-0.110  $\chi^2/\text{NDF}$ : 482689.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 355.640+/-0.099  $\chi^2/\text{NDF}$ : 467169.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

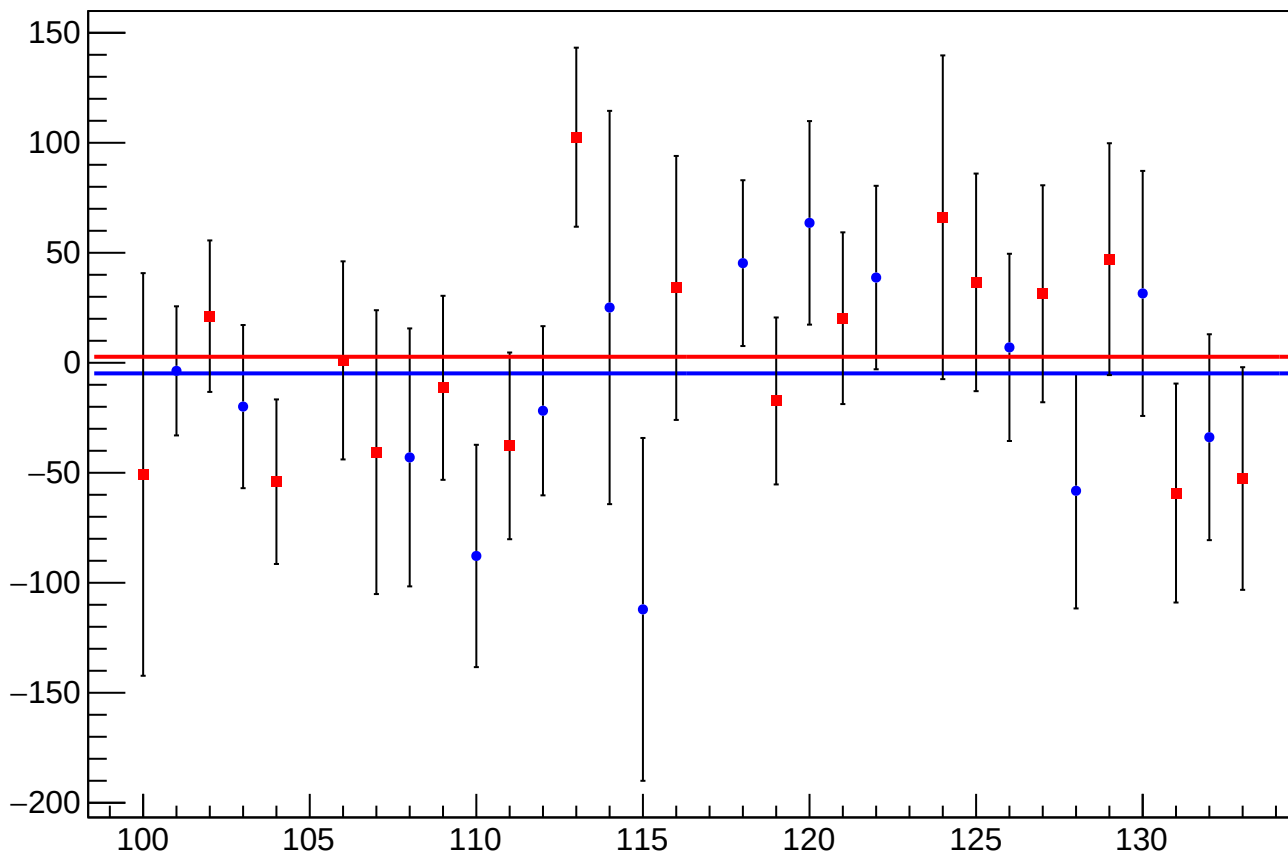
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 362.744+/-0.074  $\chi^2/\text{NDF}$ : 961276.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpmE\_mean vs Slug



Right In:  $-4.821 \pm 11.982$   $\chi^2/\text{NDF}$ : 12.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $2.733 \pm 11.229$   $\chi^2/\text{NDF}$ : 16.2/16

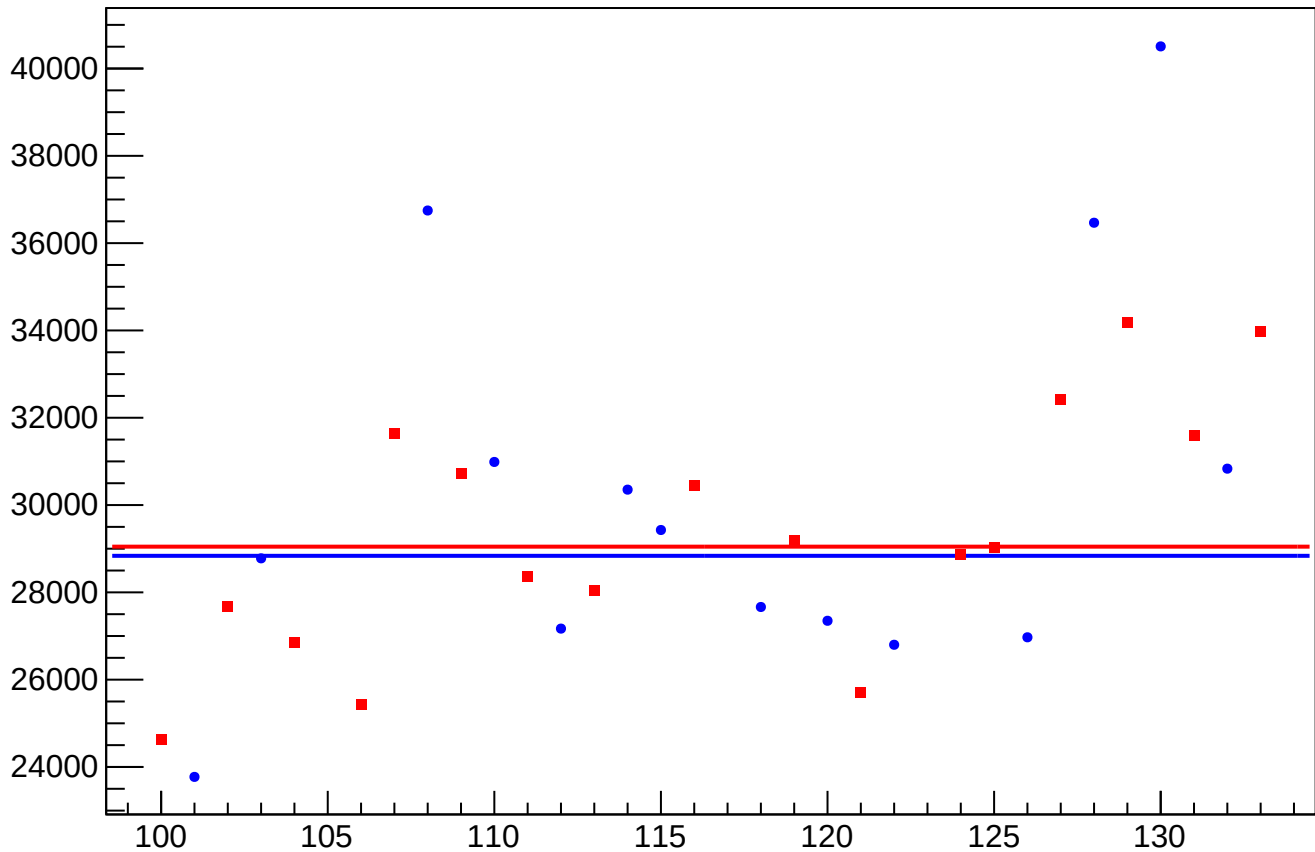
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.799 \pm 8.194$   $\chi^2/\text{NDF}$ : 28.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmE\_rms vs Slug



Right In: 28836.922+/-8.473  $\chi^2/\text{NDF}$ : 248867.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29047.005+/-7.940  $\chi^2/\text{NDF}$ : 104060.6/16

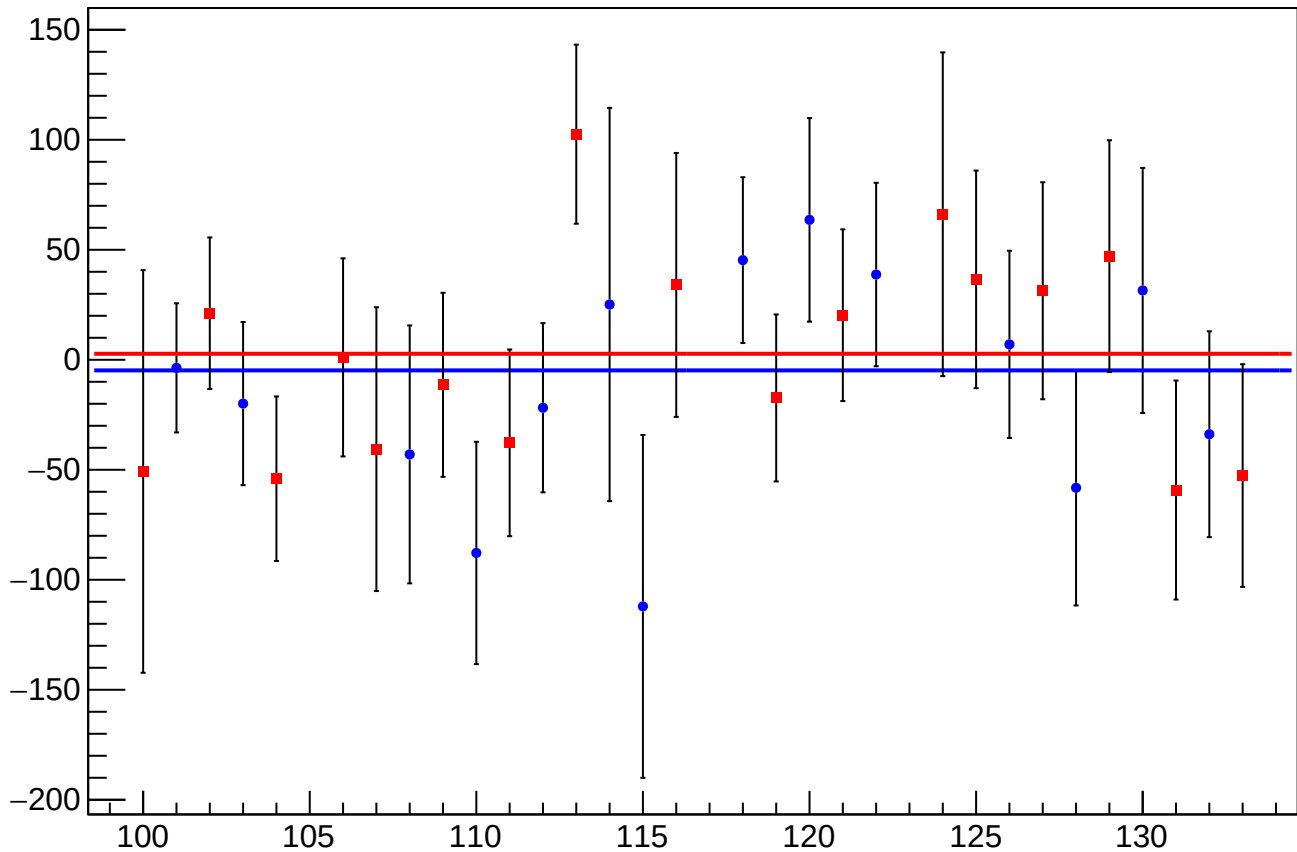
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28948.771+/-5.794  $\chi^2/\text{NDF}$ : 353255.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmEX\_mean vs Slug



Right In: -4.821+/-11.982  $\chi^2/\text{NDF}$ : 12.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.733+/-11.229  $\chi^2/\text{NDF}$ : 16.2/16

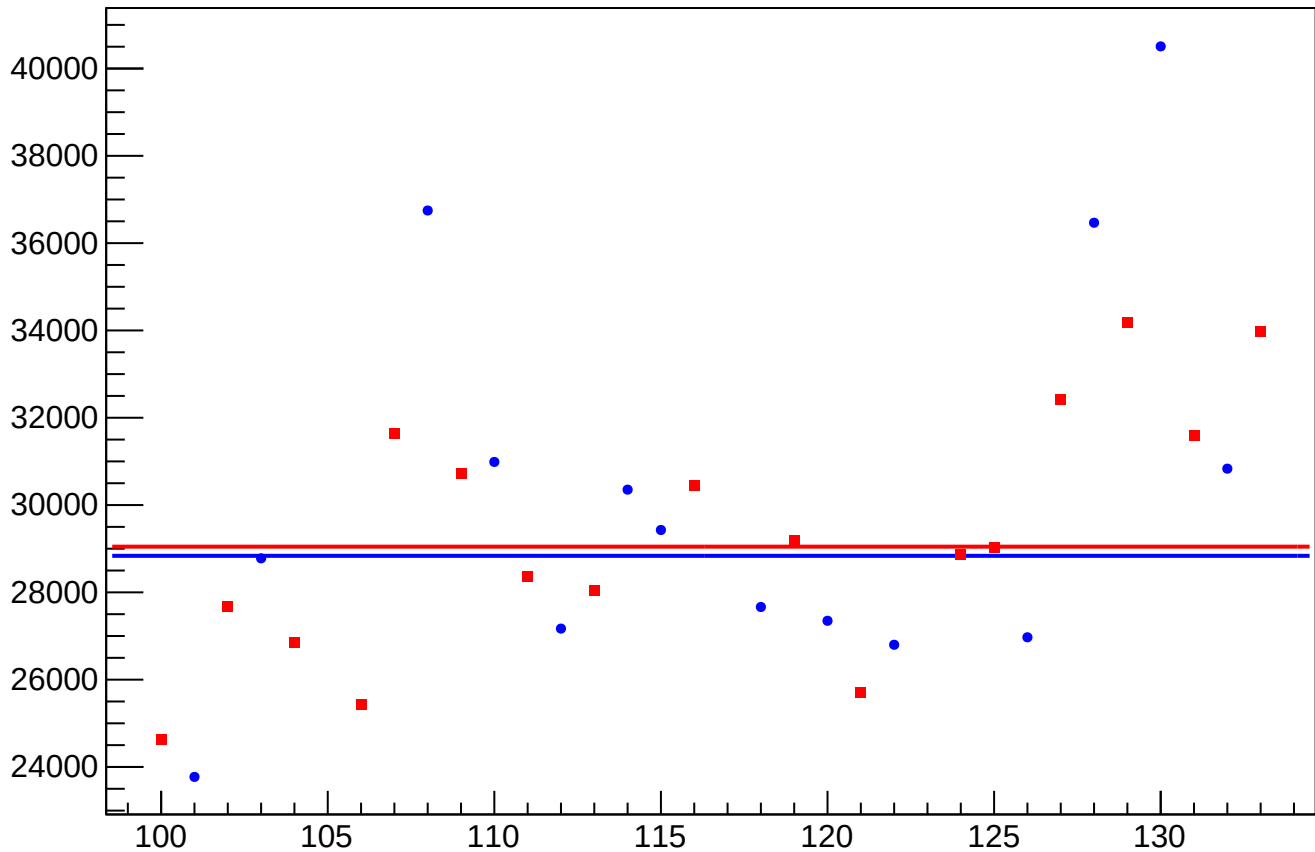
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.799+/-8.194  $\chi^2/\text{NDF}$ : 28.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmEX\_rms vs Slug



Right In: 28836.922+/-8.473  $\chi^2/\text{NDF}$ : 248867.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29047.005+/-7.940  $\chi^2/\text{NDF}$ : 104060.6/16

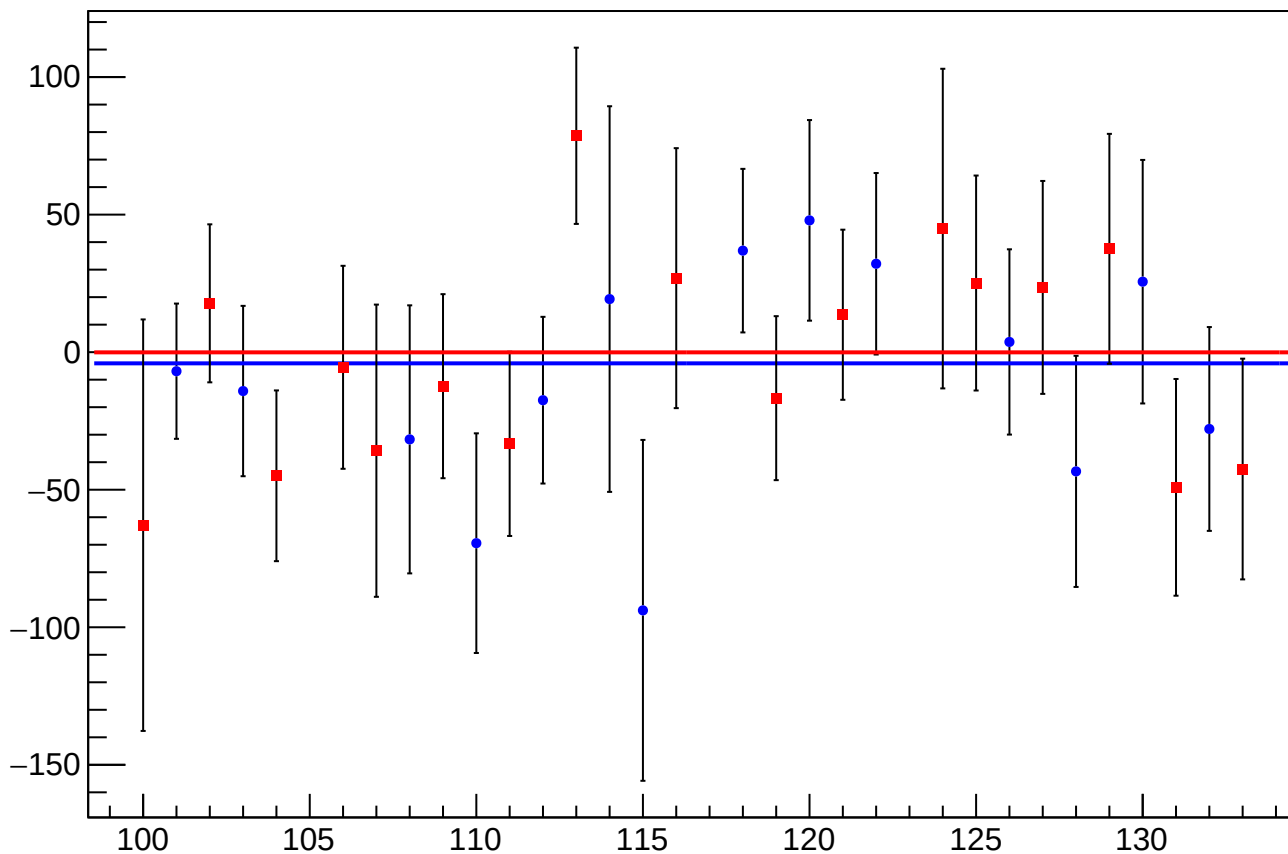
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28948.771+/-5.794  $\chi^2/\text{NDF}$ : 353255.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmE\_11X12X\_mean vs Slug



Right In: -4.063+/-9.627  $\chi^2/\text{NDF}$ : 12.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.066+/-8.996  $\chi^2/\text{NDF}$ : 16.5/16

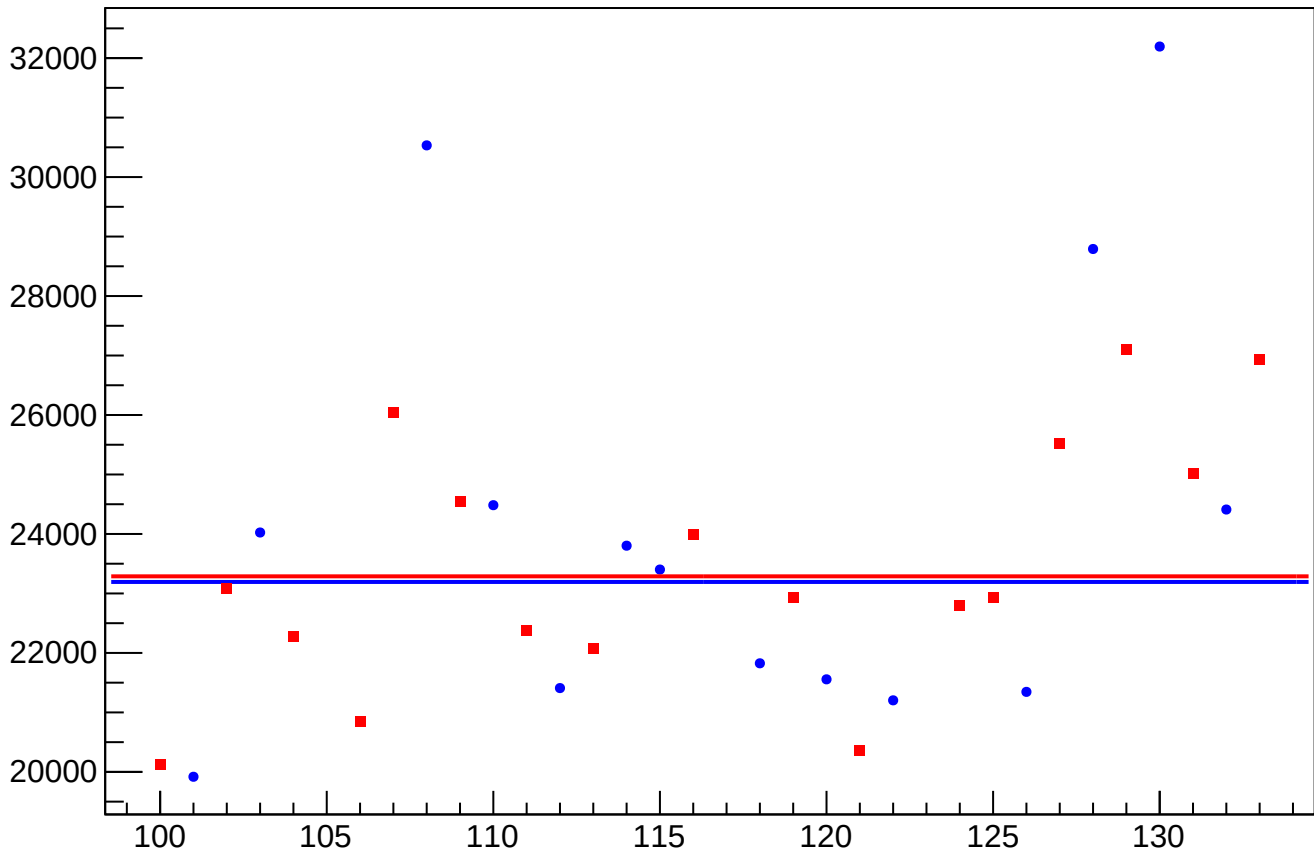
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.929+/-6.573  $\chi^2/\text{NDF}$ : 29.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmE\_11X12X\_rms vs Slug



Right In: 23193.366+/-6.807  $\chi^2/\text{NDF}$ : 233456.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23287.688+/-6.361  $\chi^2/\text{NDF}$ : 89634.0/16

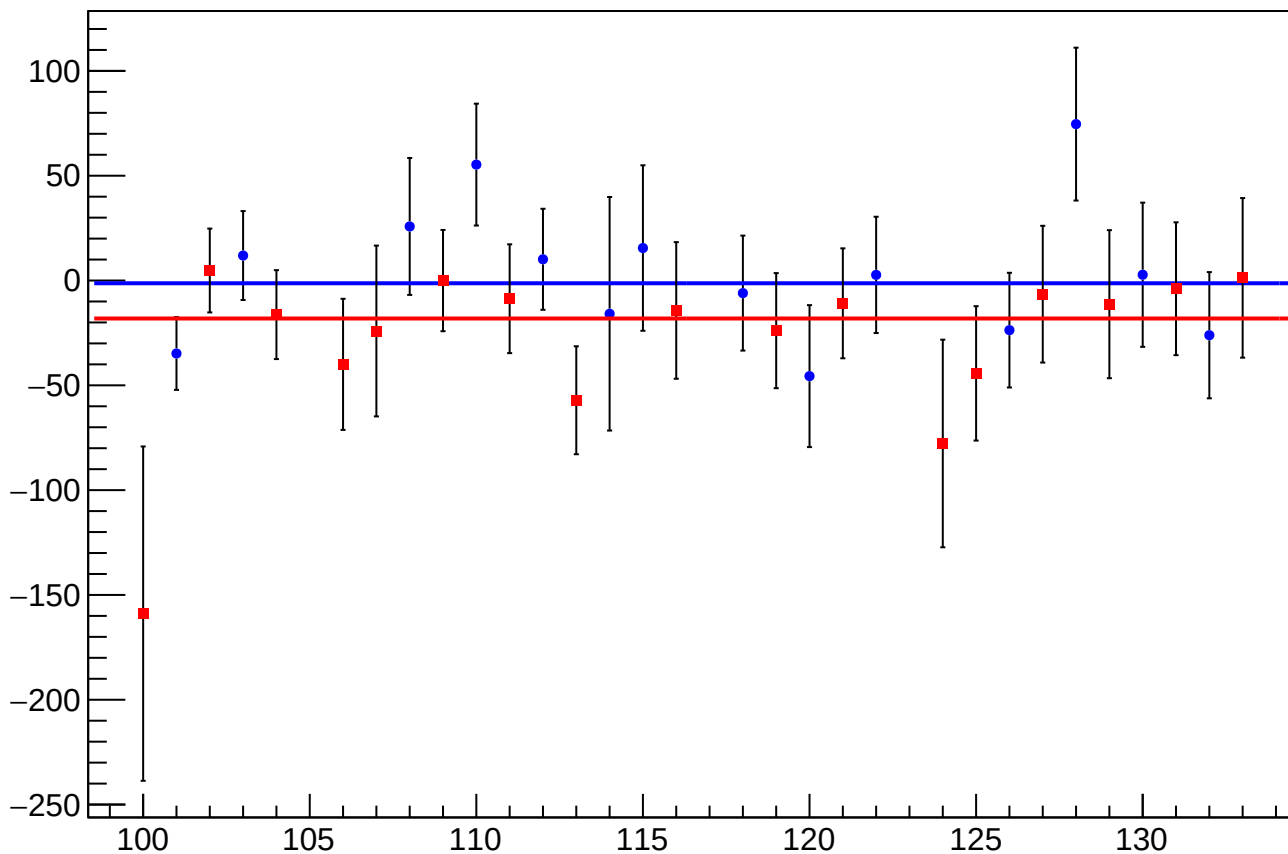
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23243.718+/-4.648  $\chi^2/\text{NDF}$ : 323192.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aesumX\_mean vs Slug



Right In:  $-1.306 \pm 7.477$   $\chi^2/\text{NDF}$ : 16.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-18.117 \pm 7.117$   $\chi^2/\text{NDF}$ : 10.8/16

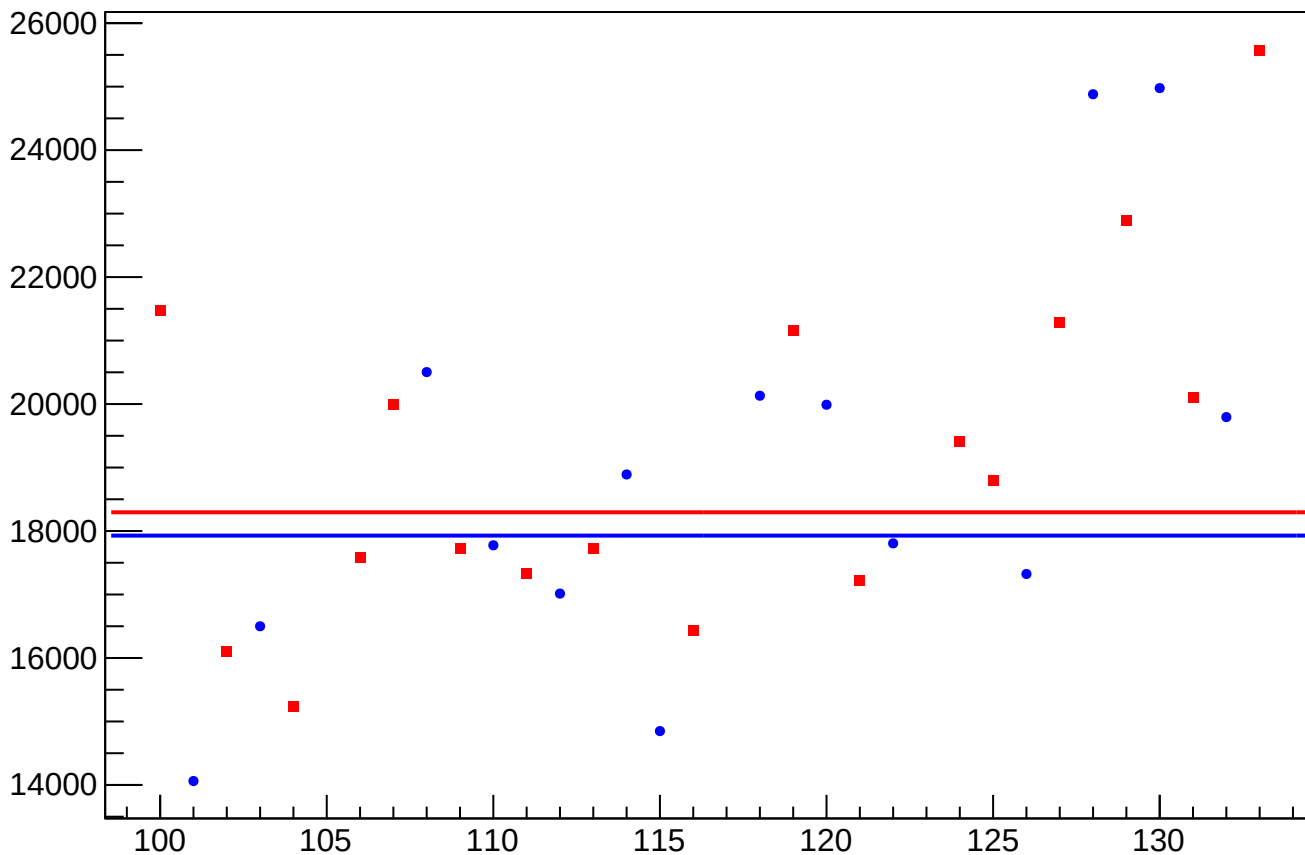
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-10.127 \pm 5.155$   $\chi^2/\text{NDF}$ : 30.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aesumX\_rms vs Slug



Right In: 17928.033+/-5.287  $\chi^2/\text{NDF}$ : 322065.4/13

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: 18295.093+/-5.033  $\chi^2/\text{NDF}$ : 241651.0/16

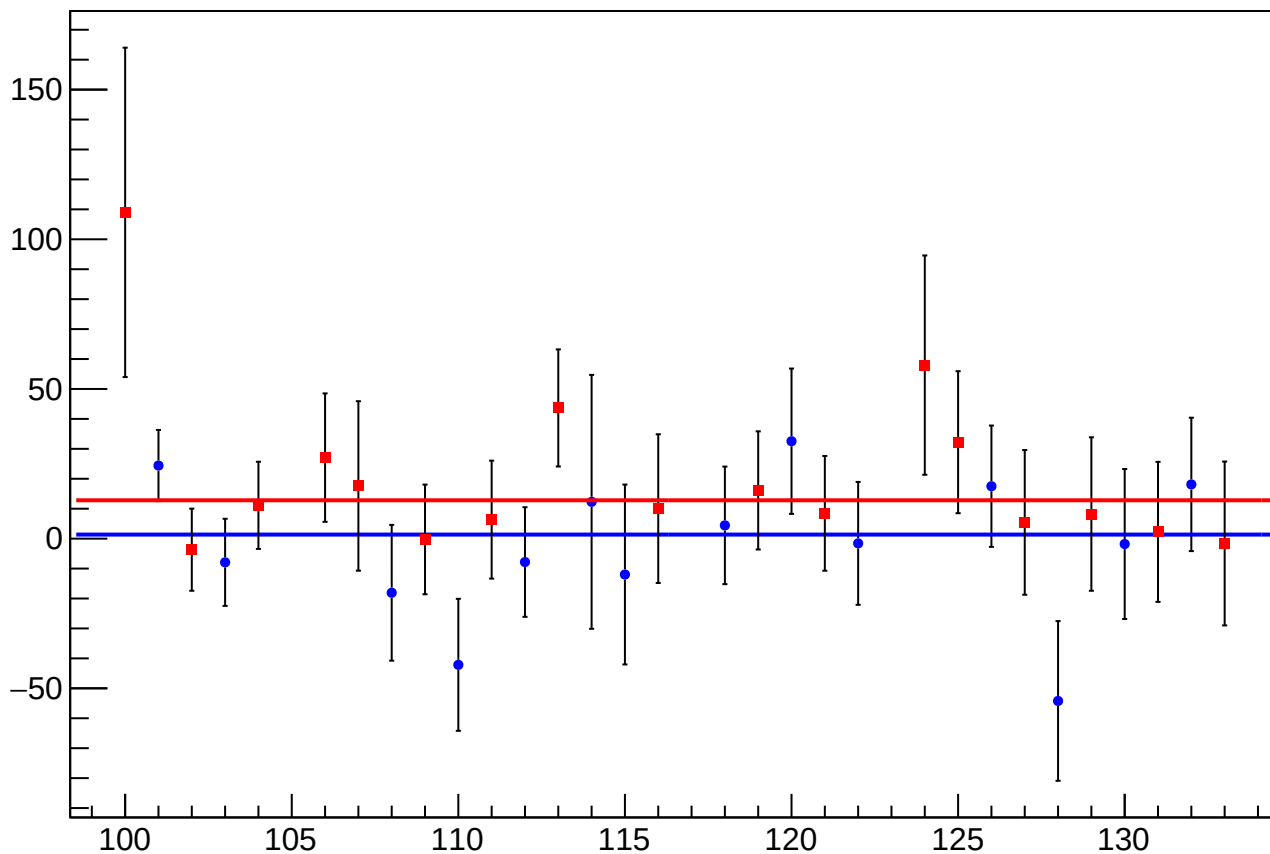
All: 18120.623+/-3.645  $\chi^2/\text{NDF}$ : 566245.0/30

- 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\_bpm4aediffX\_mean vs Slug



Right In: 1.356+/-5.379  $\chi^2/\text{NDF}$ : 16.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12.814+/-5.144  $\chi^2/\text{NDF}$ : 11.0/16

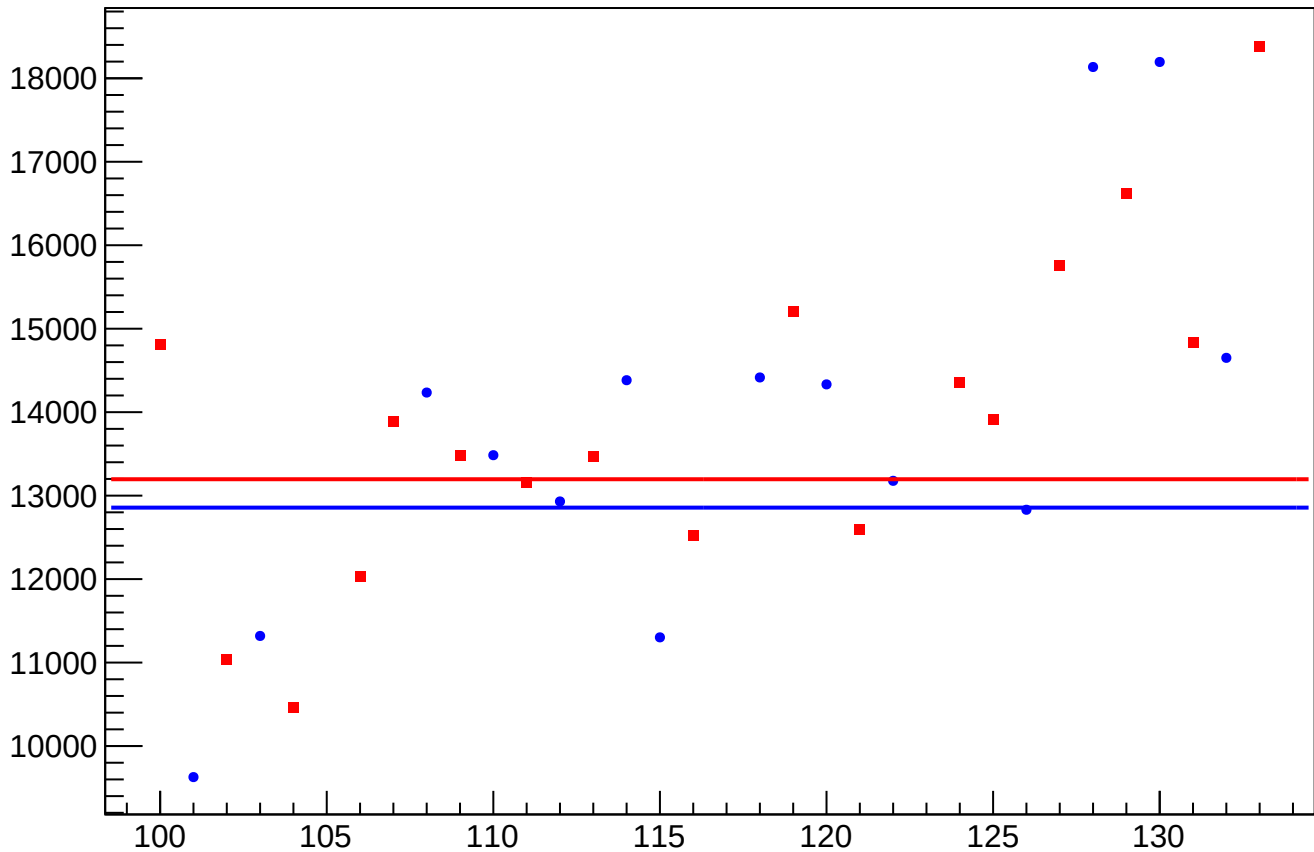
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.340+/-3.718  $\chi^2/\text{NDF}$ : 29.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aediiffX\_rms vs Slug



Right In: 12856.431+/-3.804  $\chi^2/\text{NDF}$ : 389497.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13196.475+/-3.638  $\chi^2/\text{NDF}$ : 297749.4/16

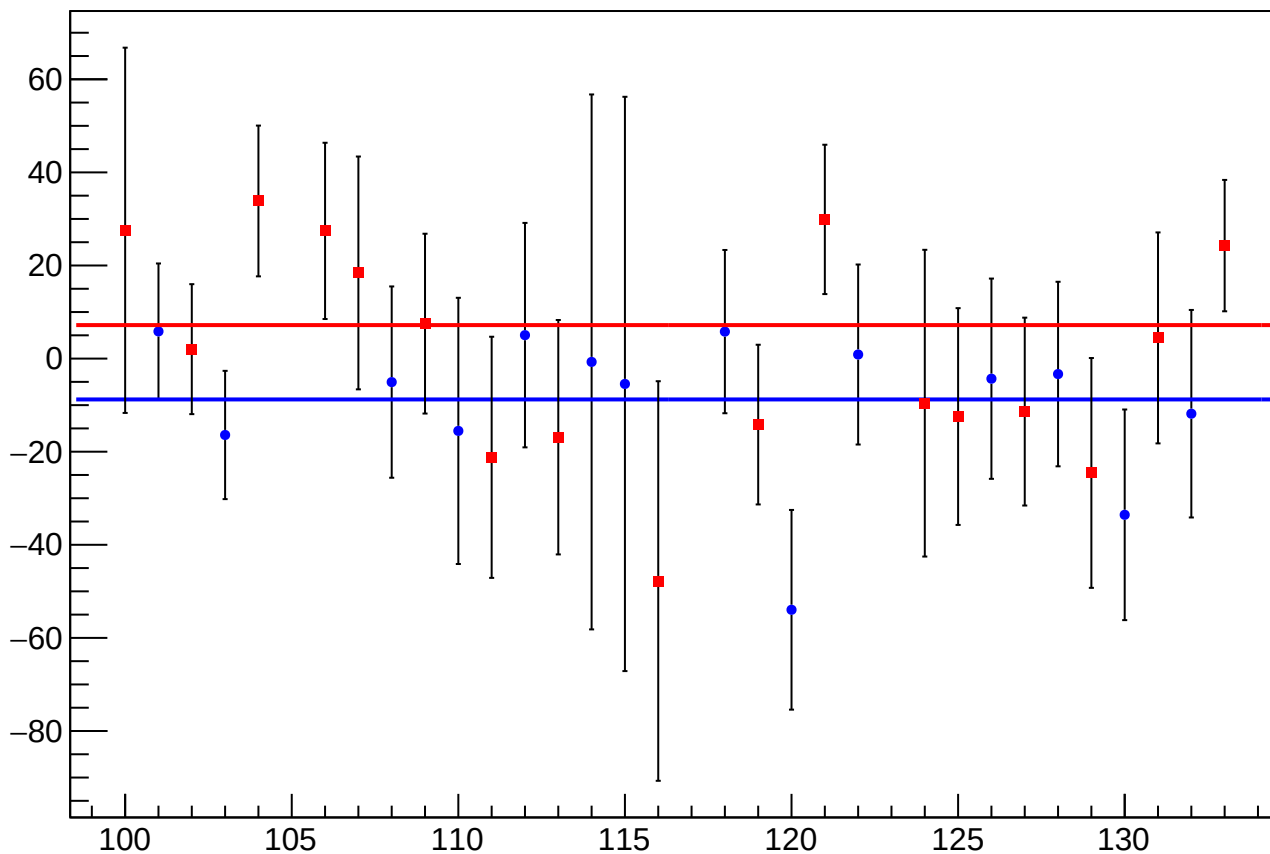
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13034.041+/-2.629  $\chi^2/\text{NDF}$ : 691421.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aesumY\_mean vs Slug



Right In: -8.775+/-5.537  $\chi^2/\text{NDF}$ : 8.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.196+/-4.915  $\chi^2/\text{NDF}$ : 16.7/16

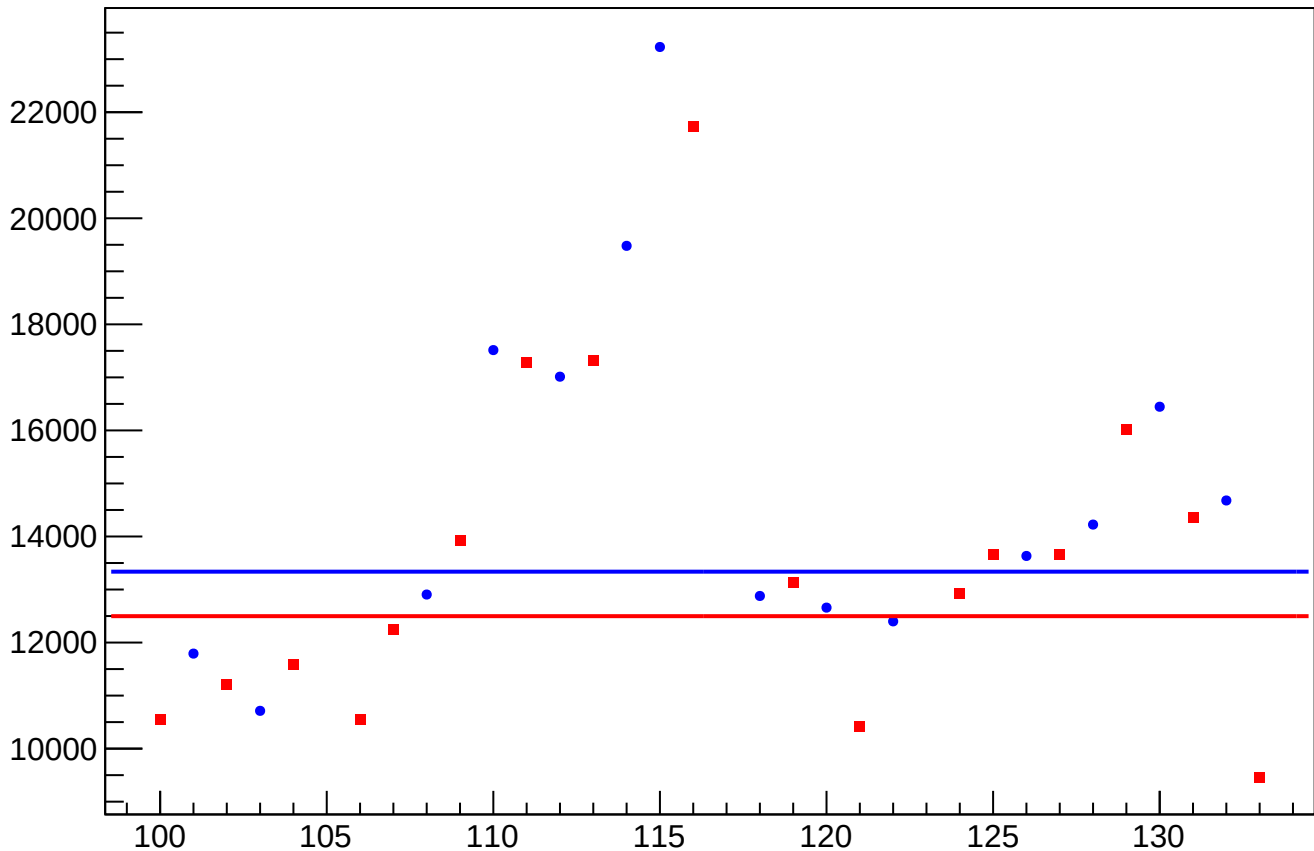
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.157+/-3.676  $\chi^2/\text{NDF}$ : 29.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aesumY\_rms vs Slug



Right In: 13336.810+/-3.915  $\chi^2/\text{NDF}$ : 316872.5/13

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

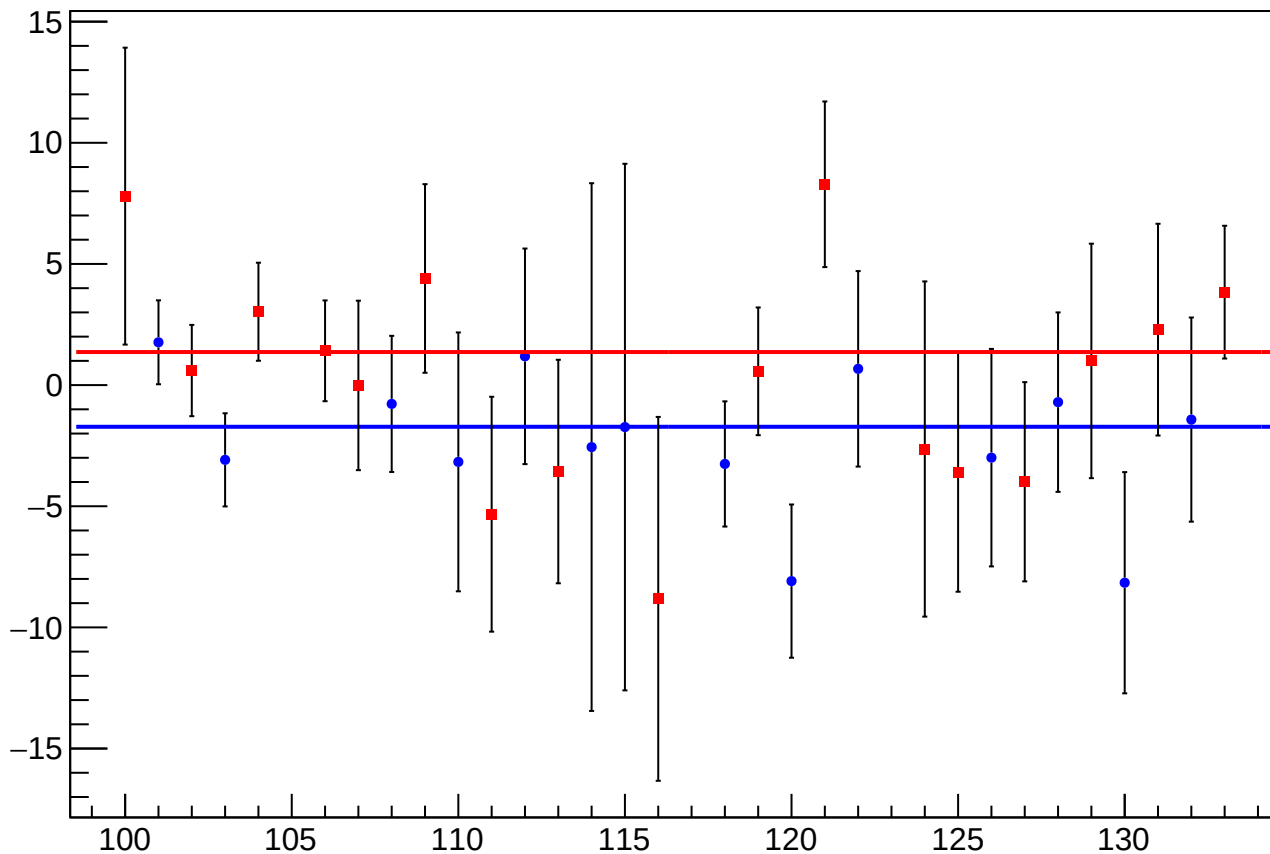
Right Out: 12497.714+/-3.475  $\chi^2/\text{NDF}$ : 489947.7/16

All: 12867.510+/-2.599  $\chi^2/\text{NDF}$ : 832508.8/30

- 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\_bpm4aediY\_mean vs Slug



Right In: -1.720+/-0.854  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.365+/-0.786  $\chi^2/\text{NDF}$ : 15.7/16

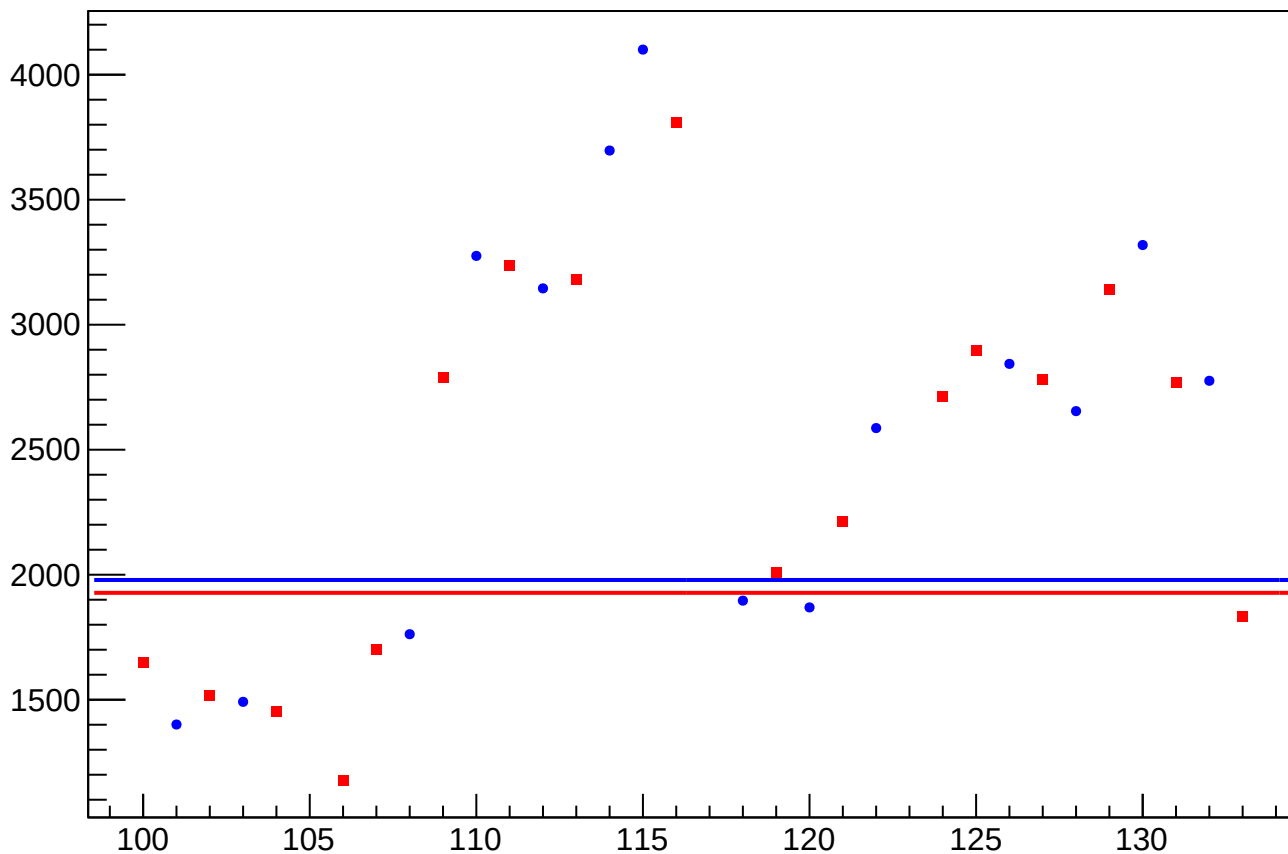
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.051+/-0.578  $\chi^2/\text{NDF}$ : 34.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aediY\_rms vs Slug



Right In: 1978.943+/-0.604  $\chi^2/\text{NDF}$ : 1178975.5/13

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

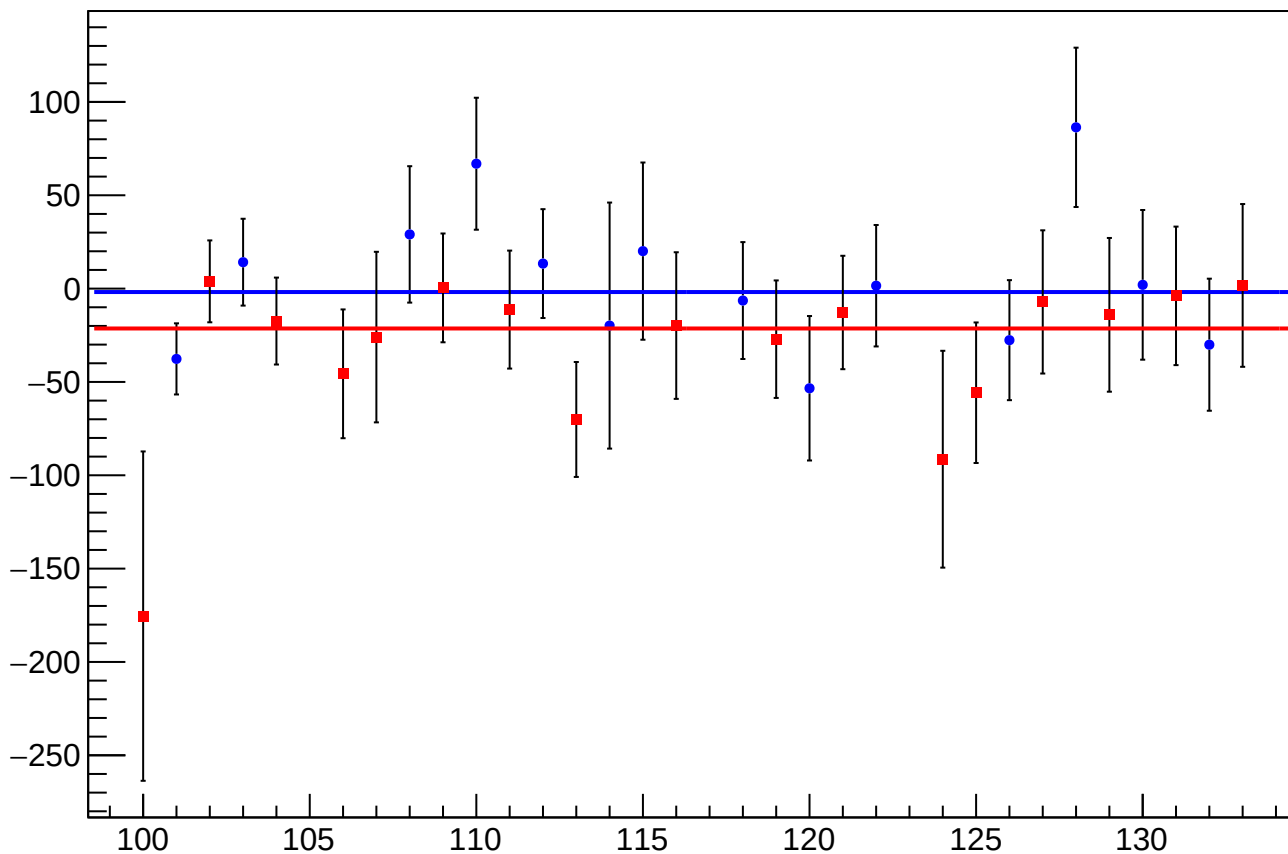
Right Out: 1927.617+/-0.556  $\chi^2/\text{NDF}$ : 1401827.6/16

All: 1951.165+/-0.409  $\chi^2/\text{NDF}$ : 2584713.9/30

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmtargetsumX\_mean vs Slug



Right In:  $-1.839 \pm 8.583$   $\chi^2/\text{NDF}$ : 16.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-21.363 \pm 8.200$   $\chi^2/\text{NDF}$ : 11.2/16

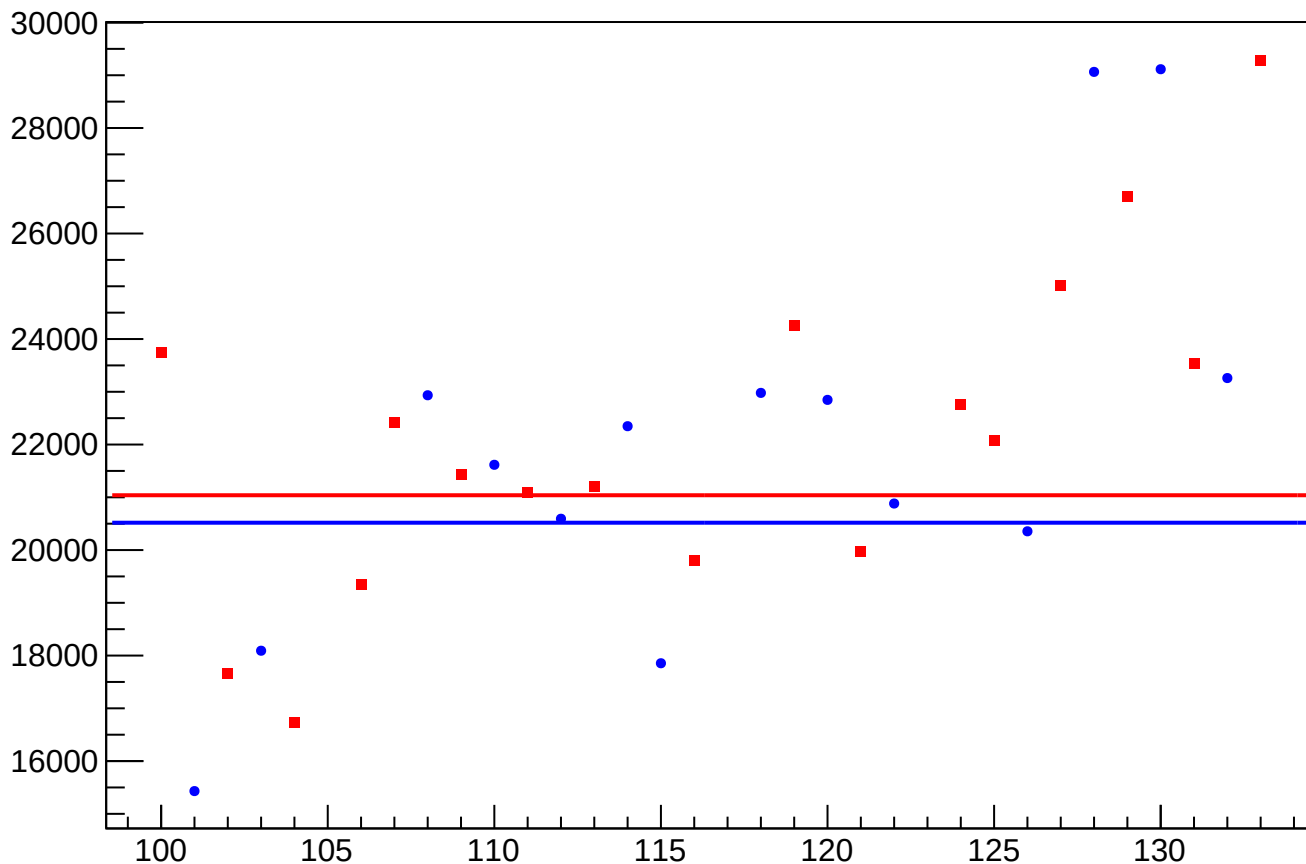
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-12.046 \pm 5.929$   $\chi^2/\text{NDF}$ : 30.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmtargetsumX\_rms vs Slug



Right In: 20518.234+/-6.069  $\chi^2/\text{NDF}$ : 386922.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21038.985+/-5.799  $\chi^2/\text{NDF}$ : 293468.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

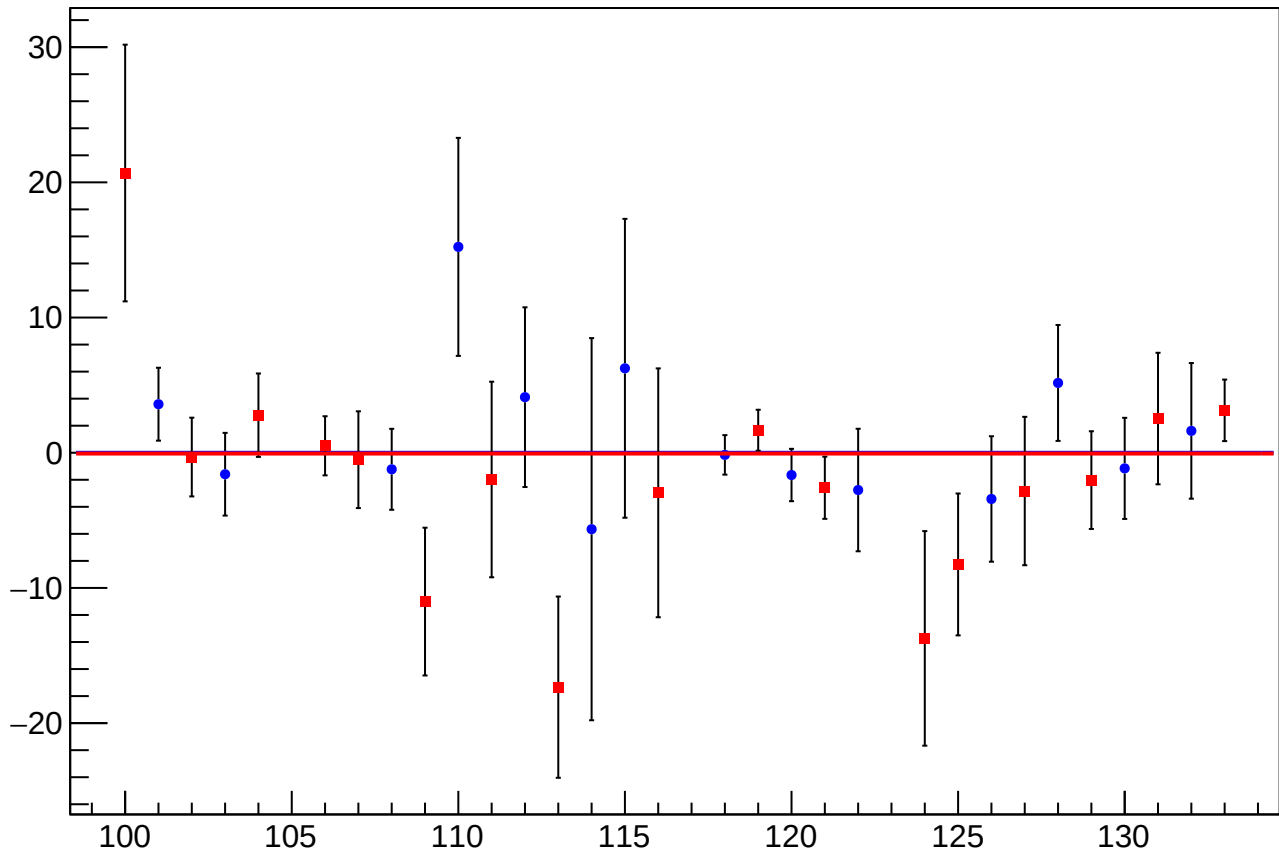
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20790.477+/-4.193  $\chi^2/\text{NDF}$ : 684239.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpmtargetdiffX\_mean vs Slug



Right In: -0.005 $\pm$ 0.844  $\chi^2$ /NDF: 9.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.059 $\pm$ 0.783  $\chi^2$ /NDF: 27.3/16

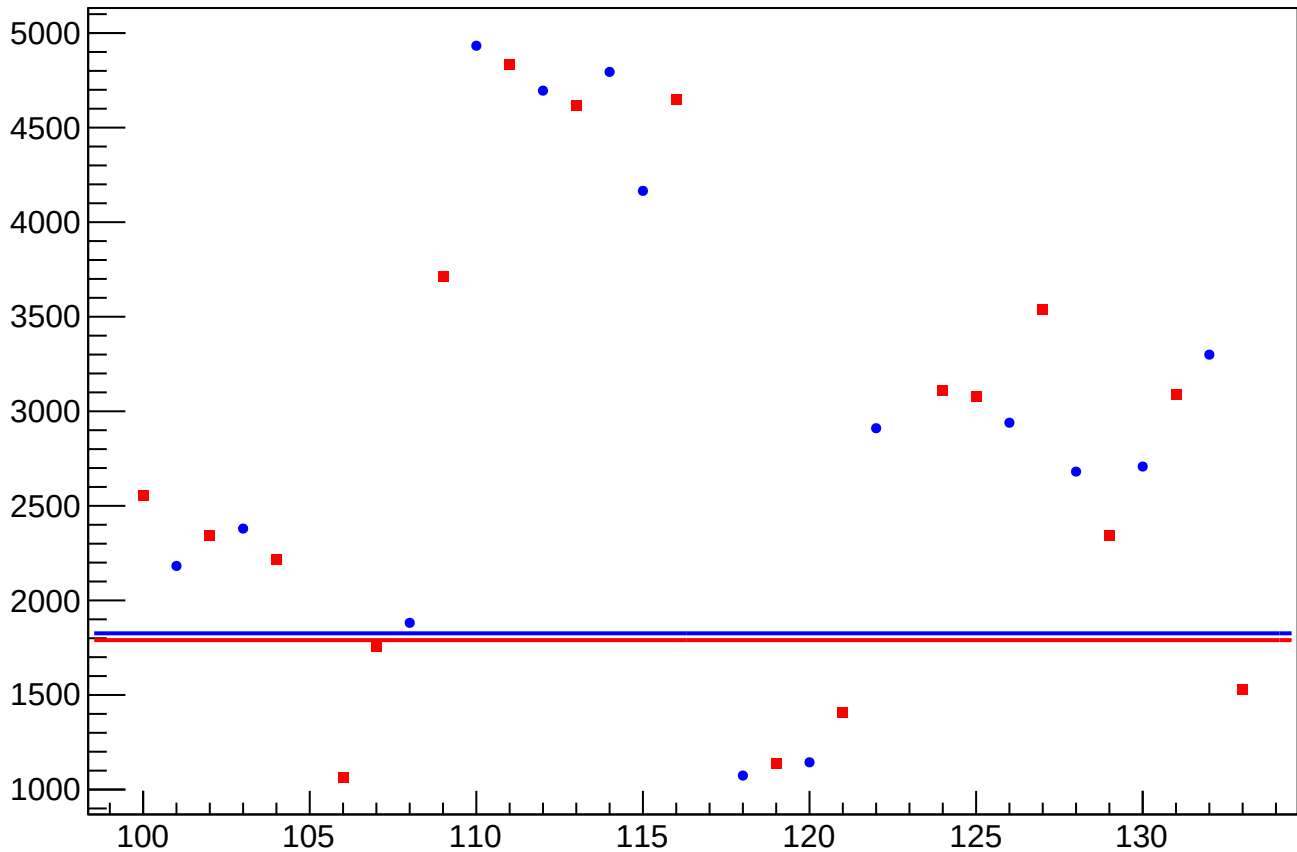
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.034 $\pm$ 0.574  $\chi^2$ /NDF: 37.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpmtargetdiffX\_rms vs Slug



Right In: 1826.035+/-0.597  $\chi^2/\text{NDF}$ : 2319454.3/13

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

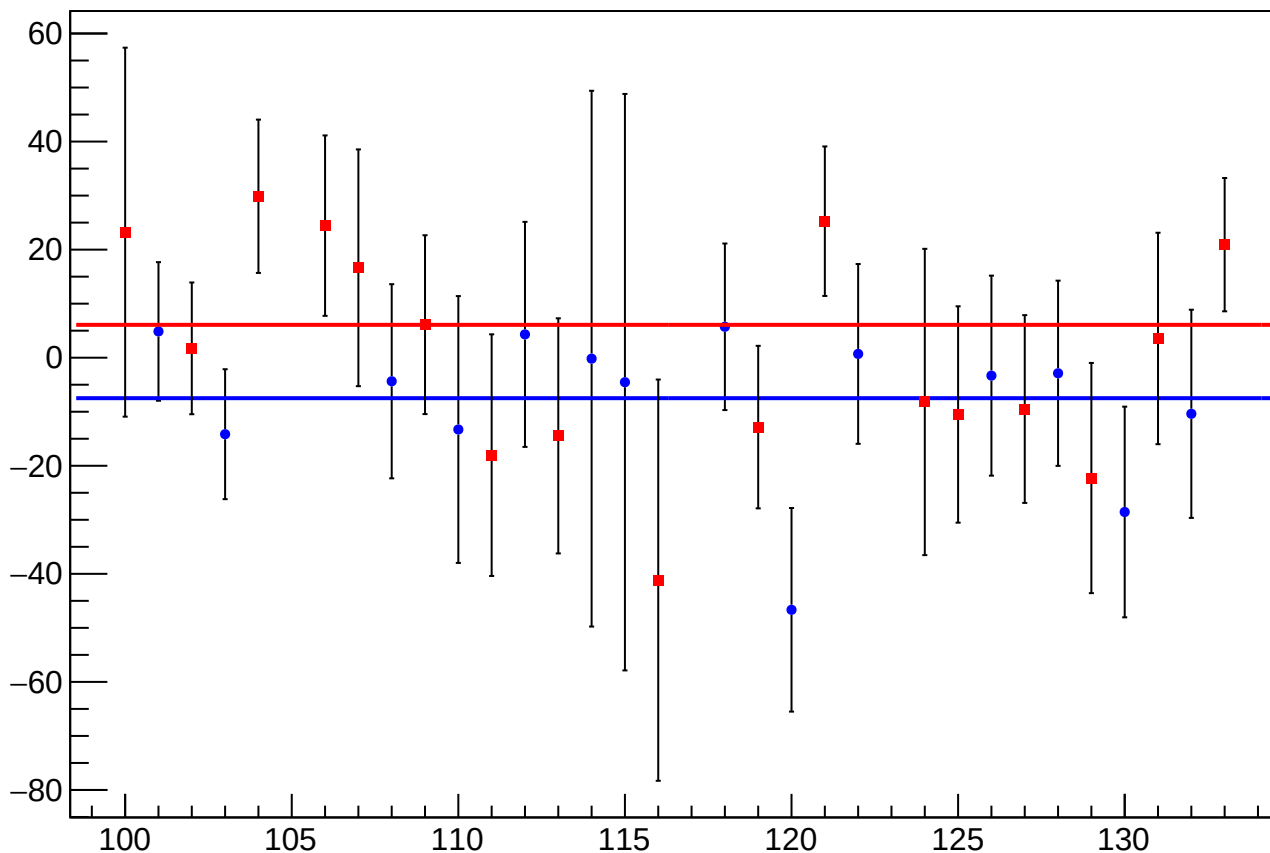
Right Out: 1789.960+/-0.554  $\chi^2/\text{NDF}$ : 2518943.9/16

All: 1806.645+/-0.406  $\chi^2/\text{NDF}$ : 4840360.5/30

- 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: -7.492+/-4.817  $\chi^2/\text{NDF}$ : 8.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6.081+/-4.272  $\chi^2/\text{NDF}$ : 16.8/16

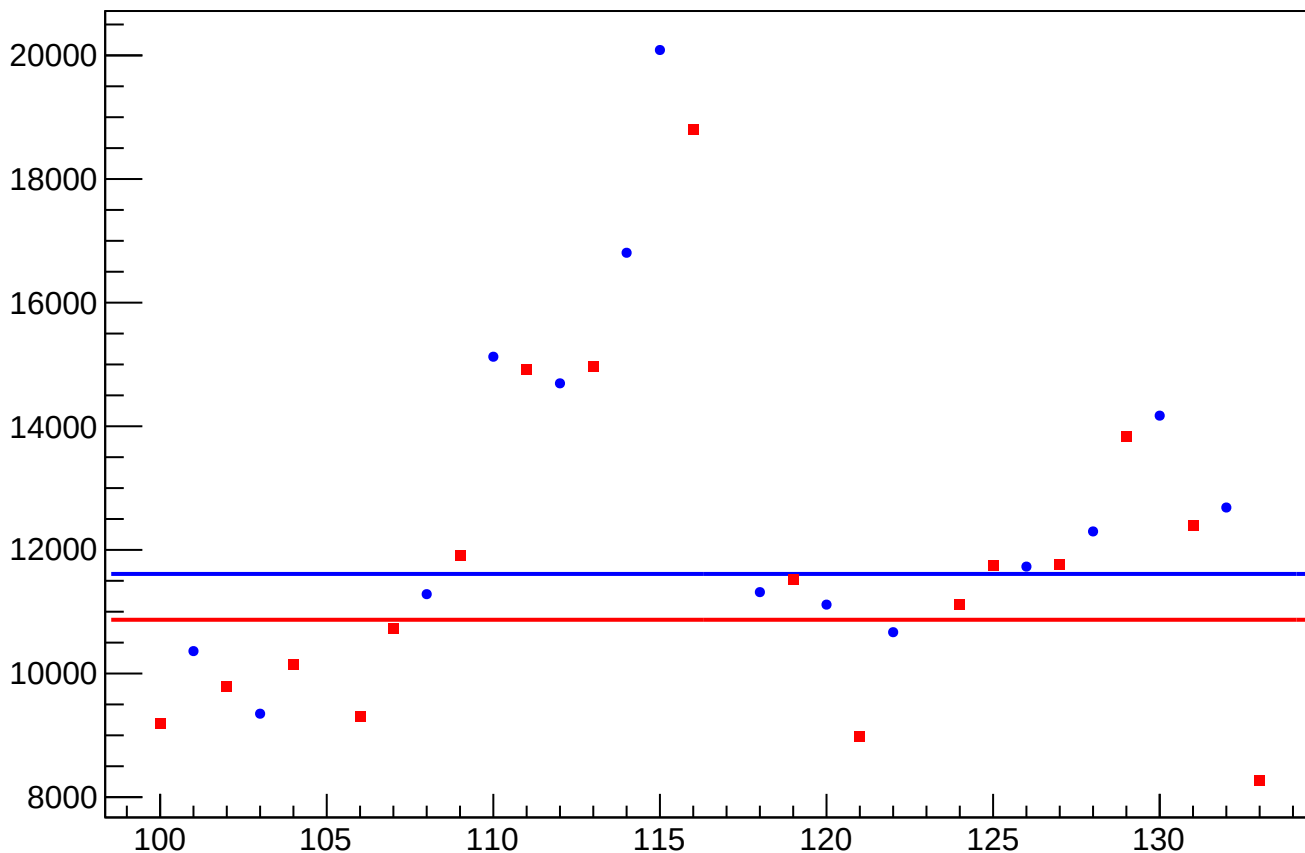
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.106+/-3.196  $\chi^2/\text{NDF}$ : 29.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmtargetsumY\_rms vs Slug



Right In: 11611.174+/-3.406  $\chi^2/\text{NDF}$ : 299721.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10869.662+/-3.021  $\chi^2/\text{NDF}$ : 468249.6/16

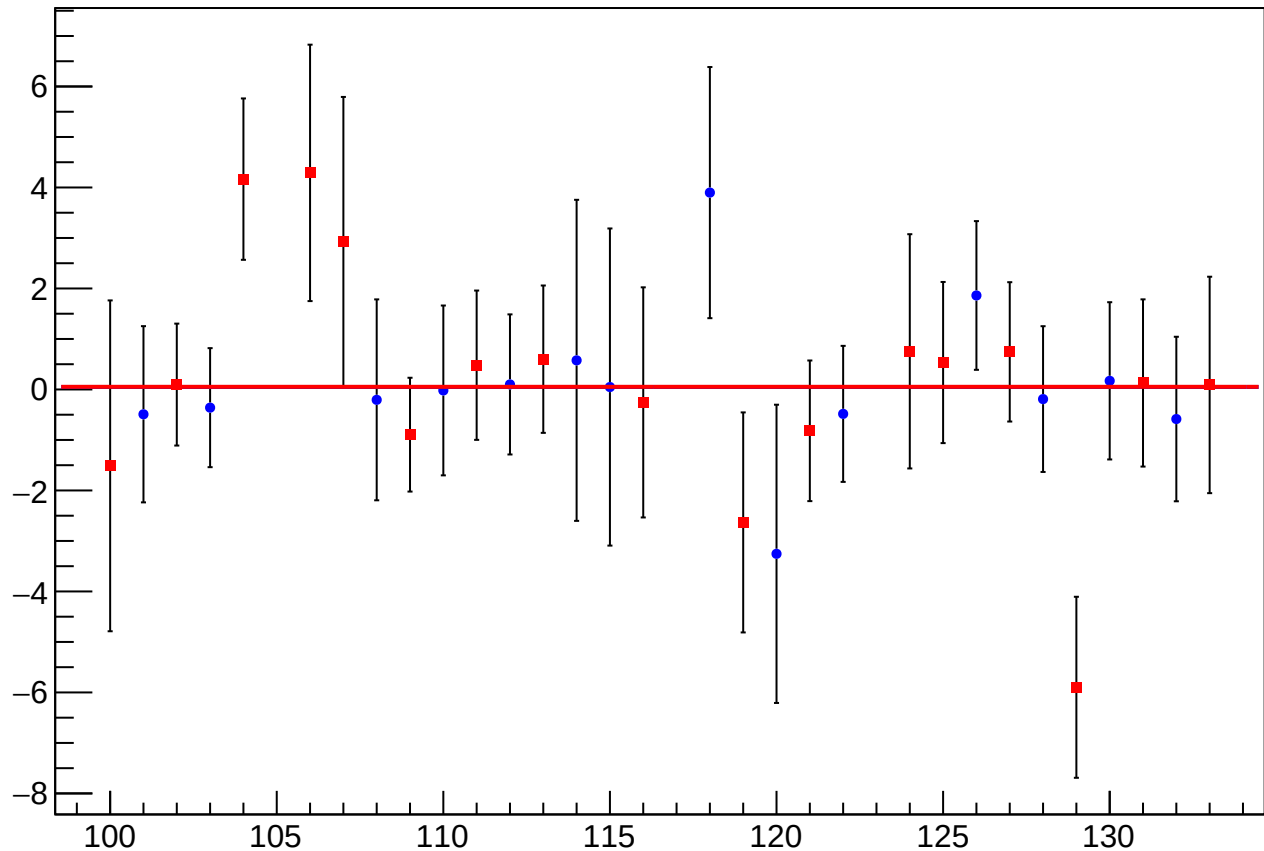
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11196.077+/-2.260  $\chi^2/\text{NDF}$ : 794497.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpmtargetdiffY\_mean vs Slug



Right In: 0.049 $\pm$ 0.450  $\chi^2$ /NDF: 5.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.052 $\pm$ 0.406  $\chi^2$ /NDF: 25.0/16

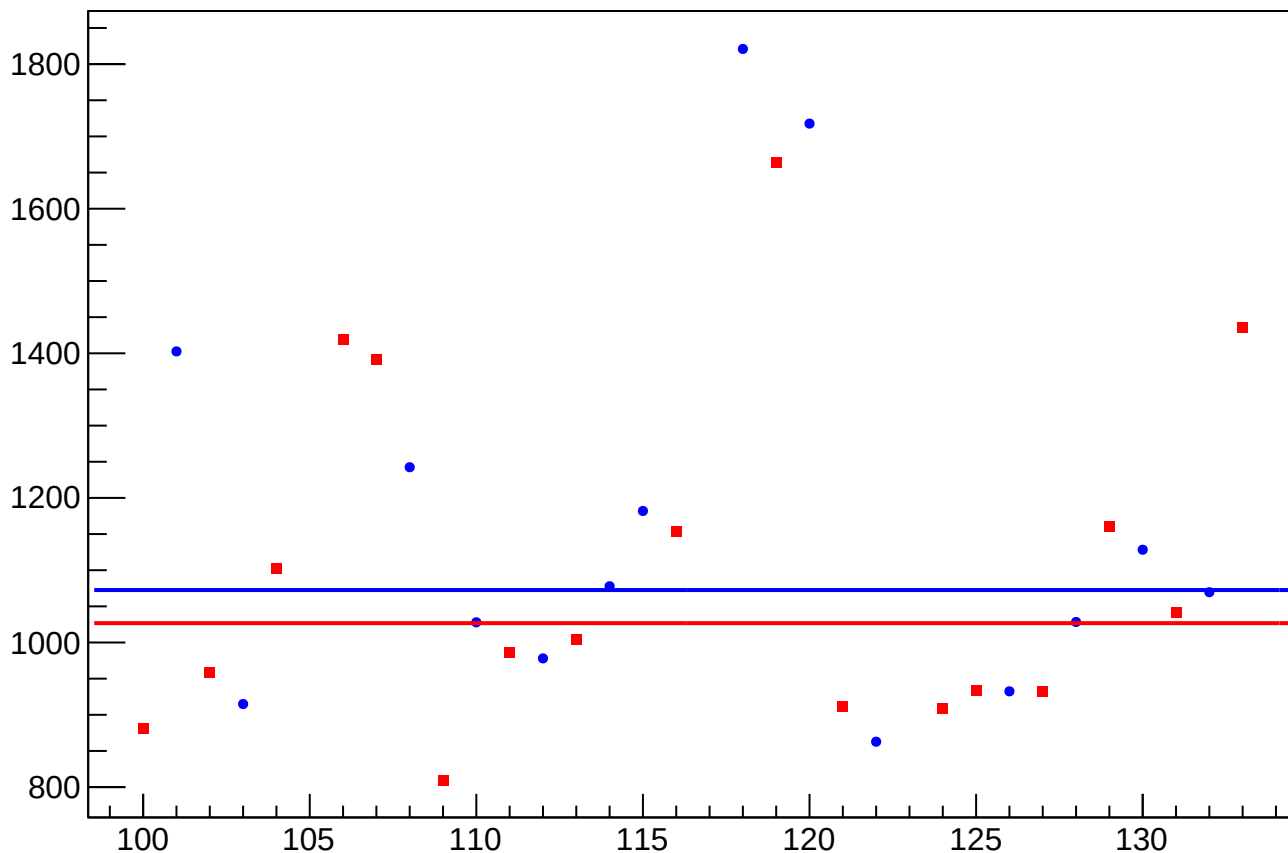
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.051 $\pm$ 0.301  $\chi^2$ /NDF: 30.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpmtargetdiffY\_rms vs Slug



Right In: 1072.562 $\pm$ 0.318  $\chi^2$ /NDF: 482689.7/13

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

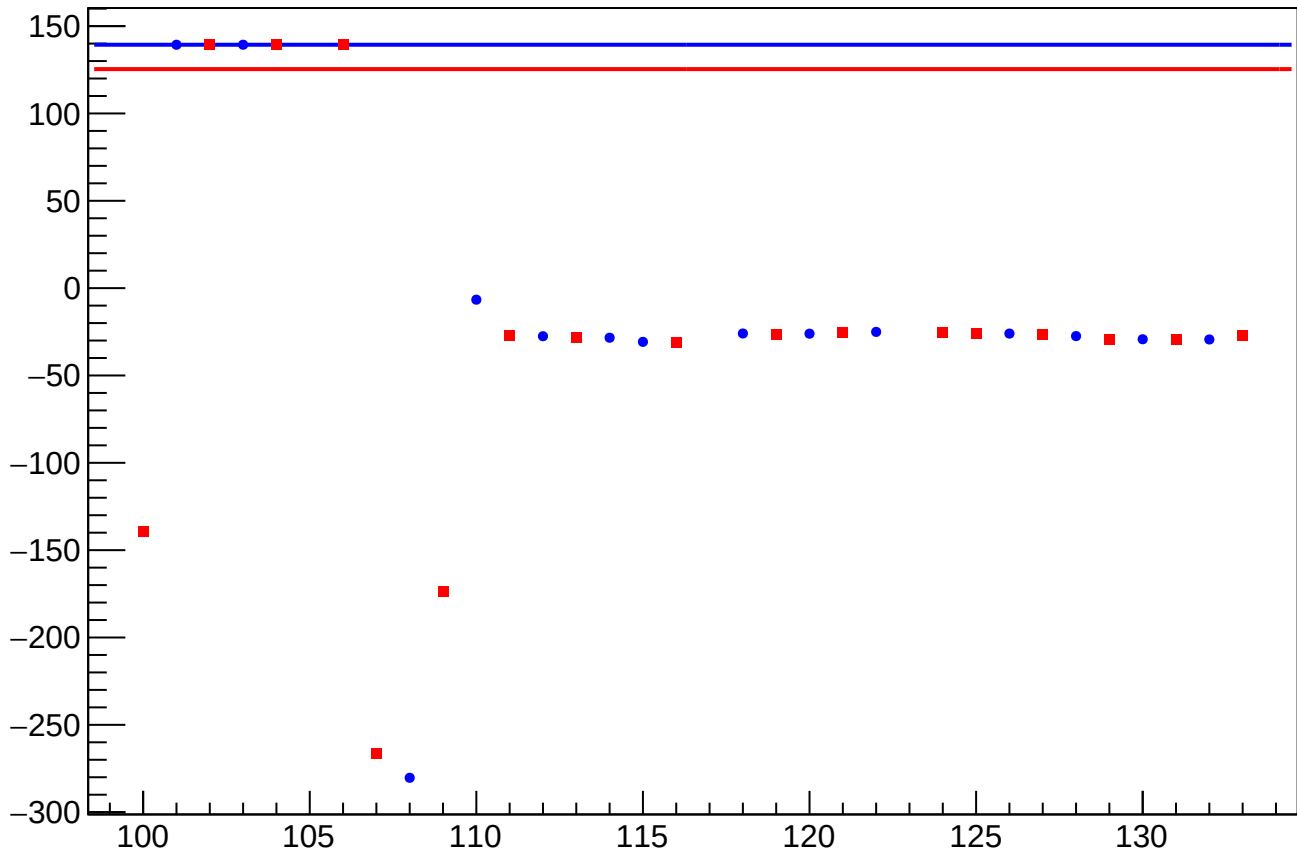
Right Out: 1026.774 $\pm$ 0.287  $\chi^2$ /NDF: 467169.7/16

All: 1047.285 $\pm$ 0.213  $\chi^2$ /NDF: 961276.8/30

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4bX\_mean vs Slug



Right In: 139.337 $\pm$ 0.000  $\chi^2$ /NDF: 36085155332.5/13

+ 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

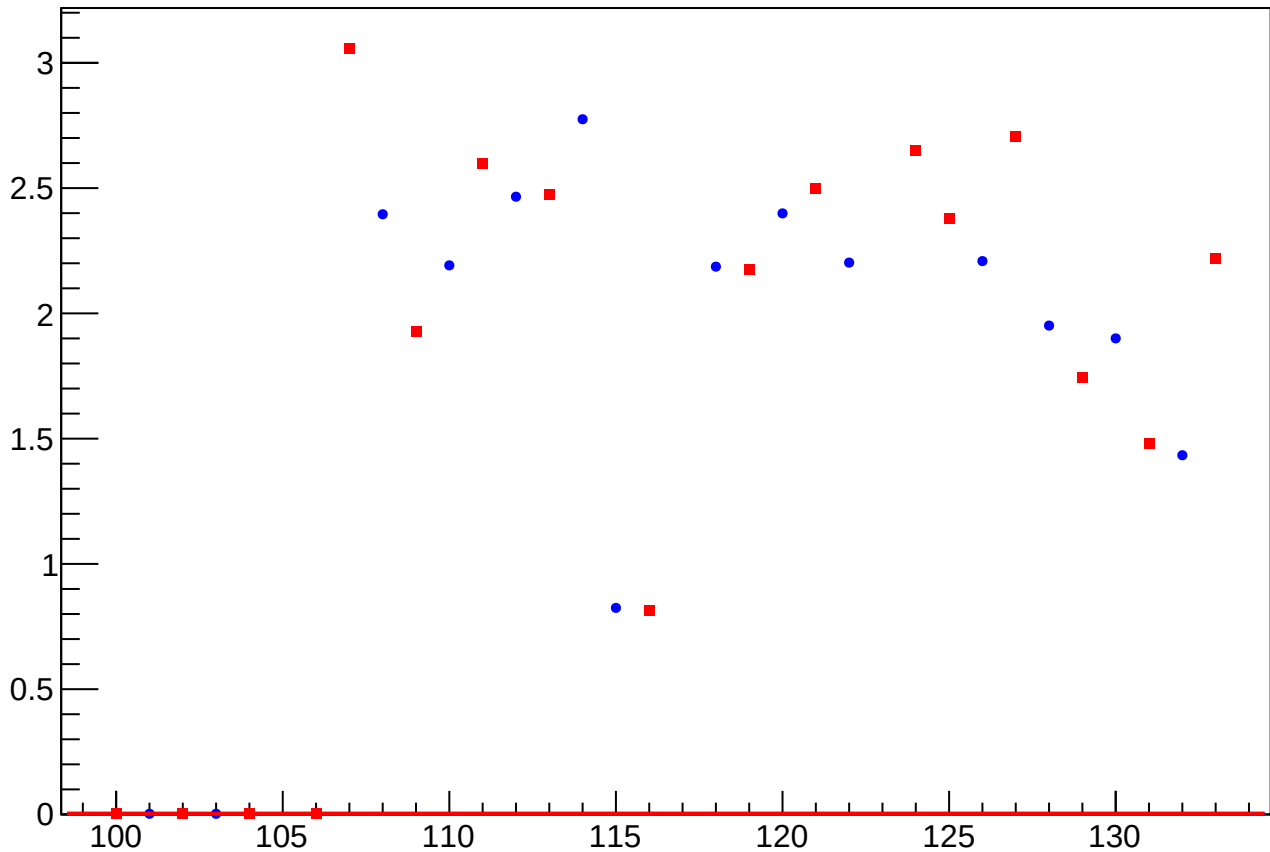
All: 131.818 $\pm$ 0.000  $\chi^2$ /NDF: 79298769051.2/16

Right Out: 125.392 $\pm$ 0.000  $\chi^2$ /NDF: 774166428112631.2/16

- 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

# yield\_cav4bX\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 7757494.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 8696518.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

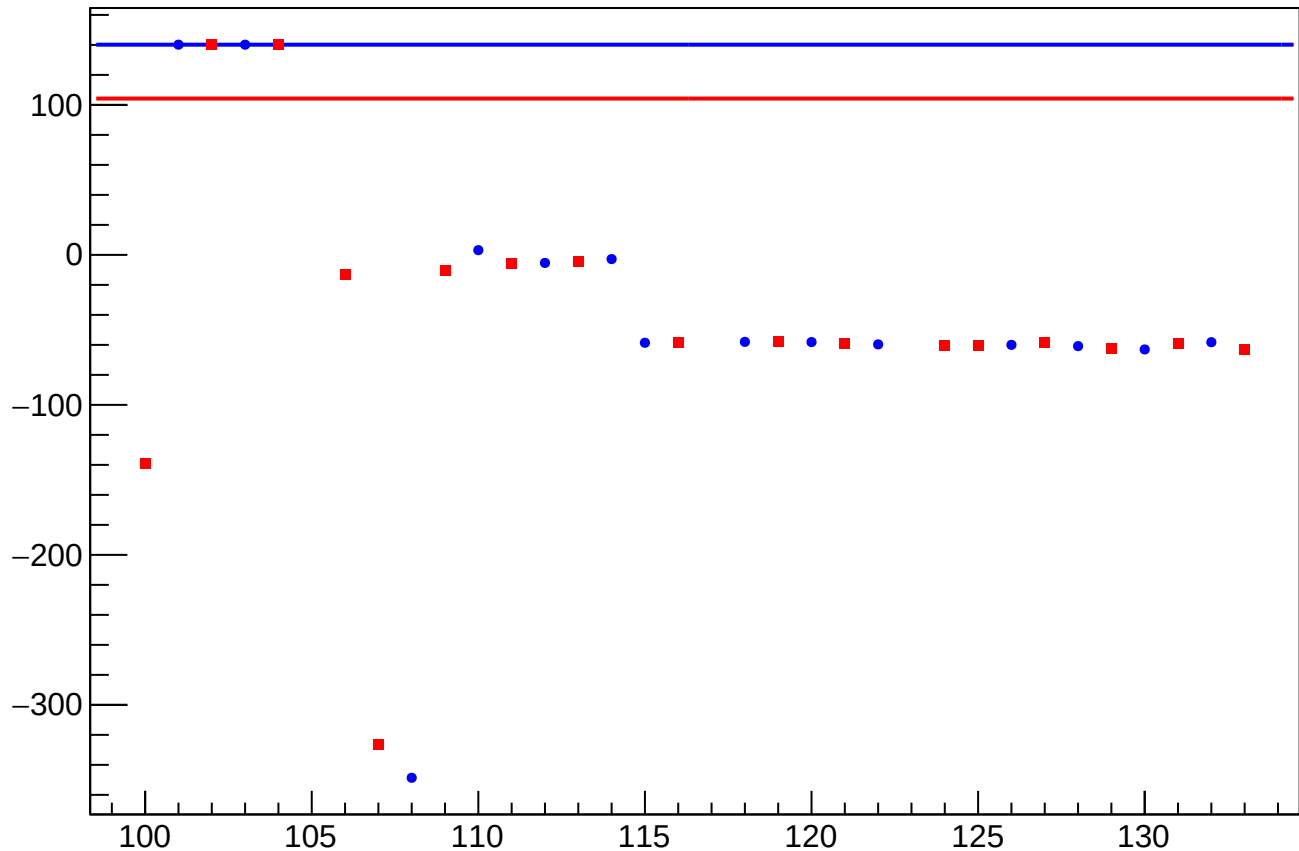
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 16454180.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_cav4bY\_mean vs Slug



Right In: 140.146 $\pm$ 0.000  $\chi^2$ /NDF: 97580156087.2/13

+ 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

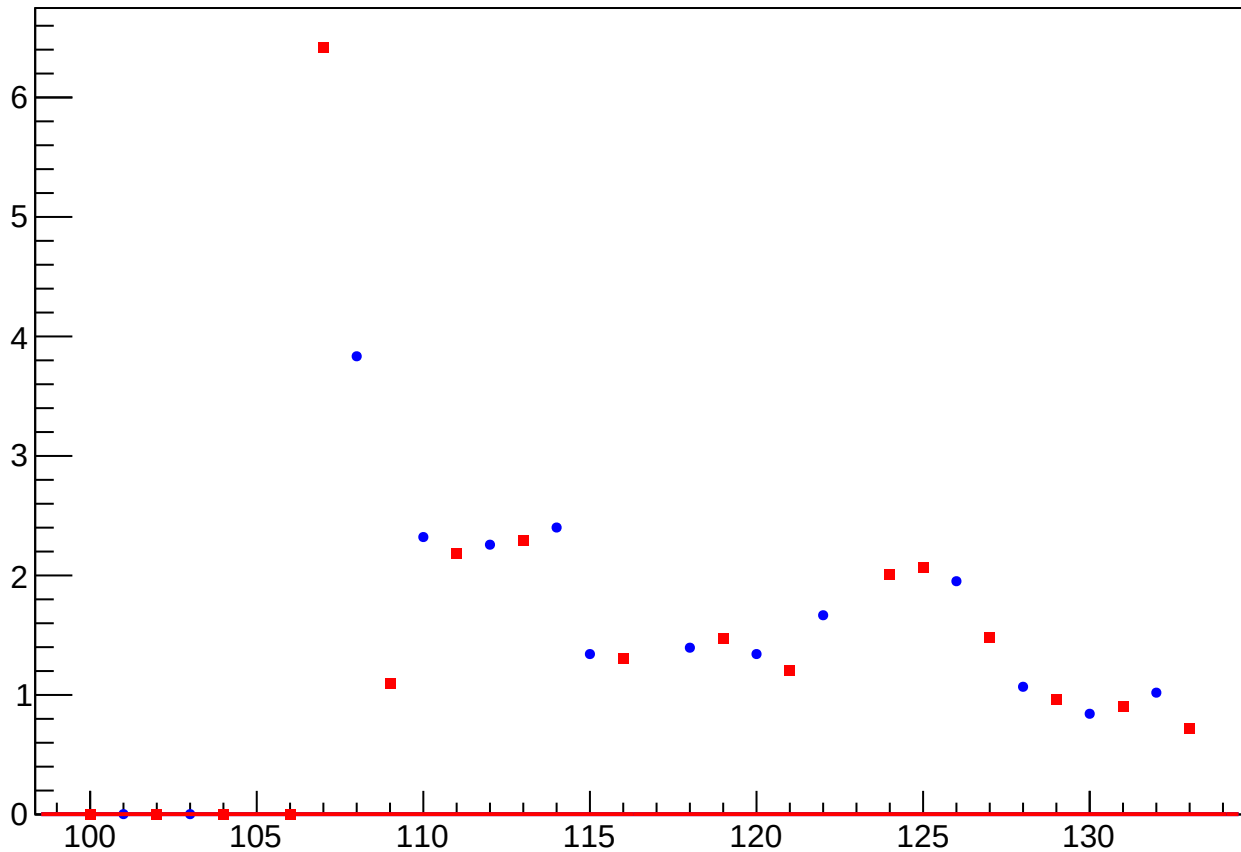
All: 120.833 $\pm$ 0.000  $\chi^2$ /NDF: 138078558865

Right Out: 104.225 $\pm$ 0.000  $\chi^2$ /NDF: 1257371671395131.5/16

- 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

# yield\_cav4bY\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 8473048.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 9060392.7/16

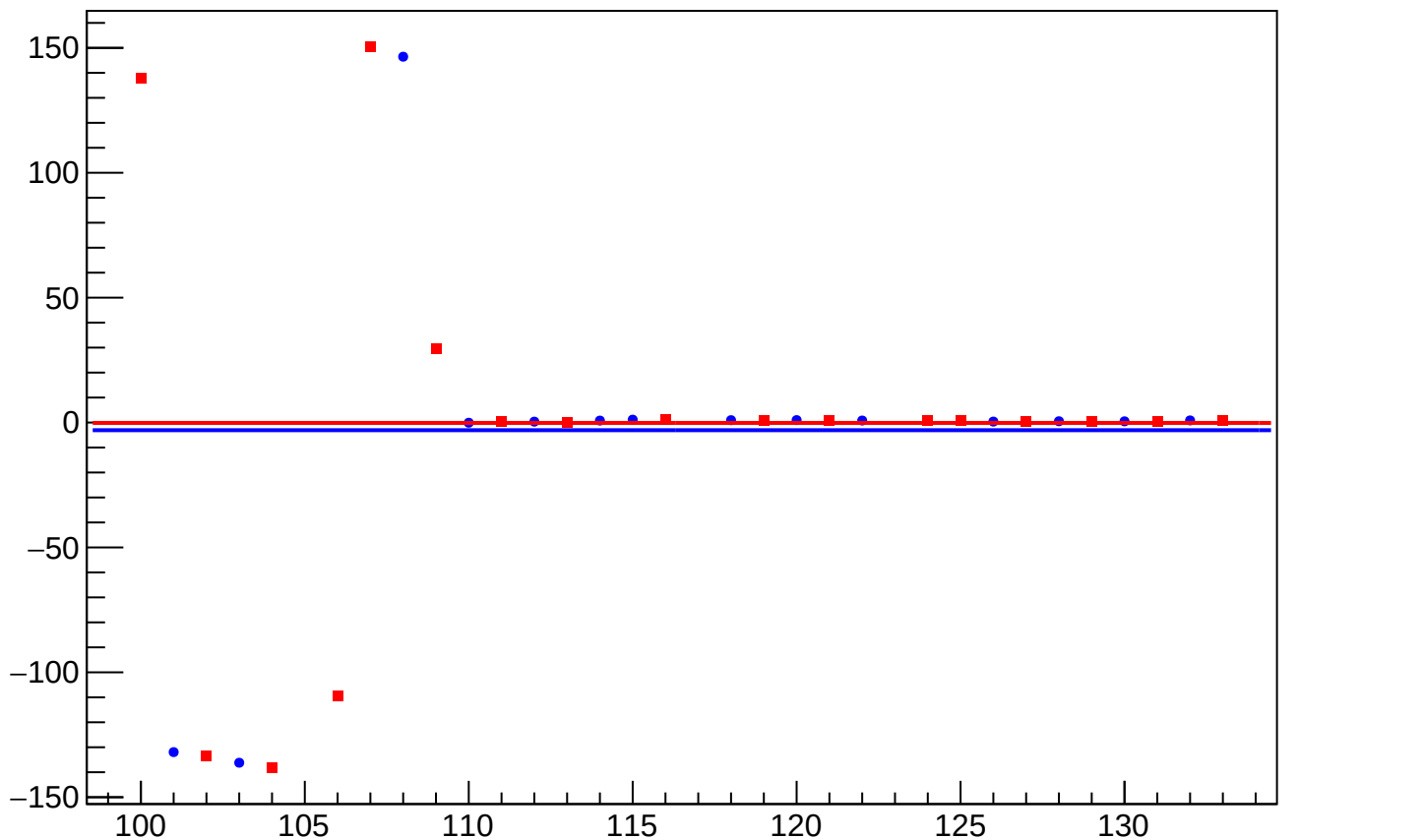
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 17533594.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cX\_mean vs Slug



Right In: -3.068+/-0.000  $\chi^2/\text{NDF}$ : 9830101938.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.145+/-0.000  $\chi^2/\text{NDF}$ : 3605795974.8/16

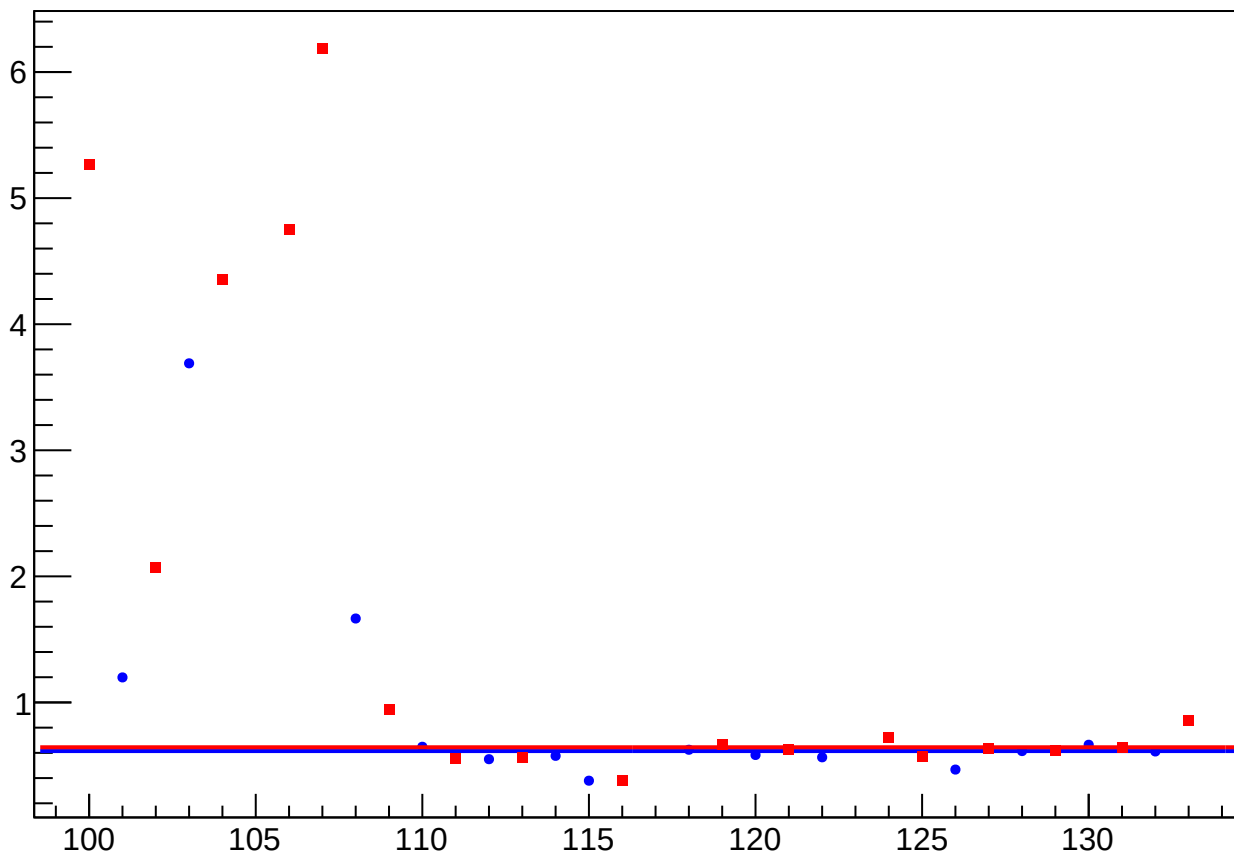
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.637+/-0.000  $\chi^2/\text{NDF}$ : 13482587283.0/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cX\_rms vs Slug



Right In: 0.614+/-0.000  $\chi^2/\text{NDF}$ : 1360182.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.644+/-0.000  $\chi^2/\text{NDF}$ : 2344789.7/16

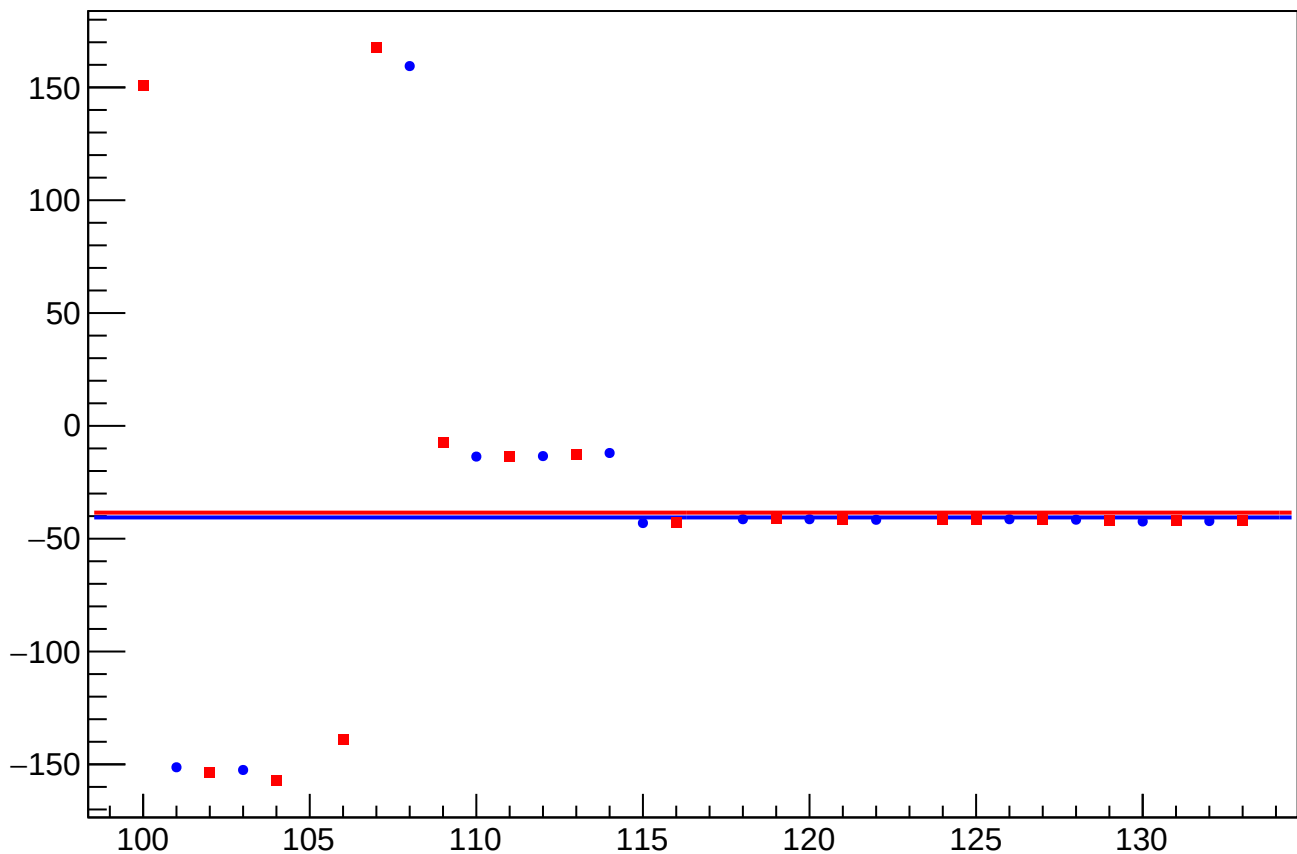
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.629+/-0.000  $\chi^2/\text{NDF}$ : 3714906.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_cav4cY\_mean vs Slug



Right In: -40.584+/-0.000  $\chi^2/\text{NDF}$ : 3444167343.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -38.446+/-0.000  $\chi^2/\text{NDF}$ : 2450000461.1/16

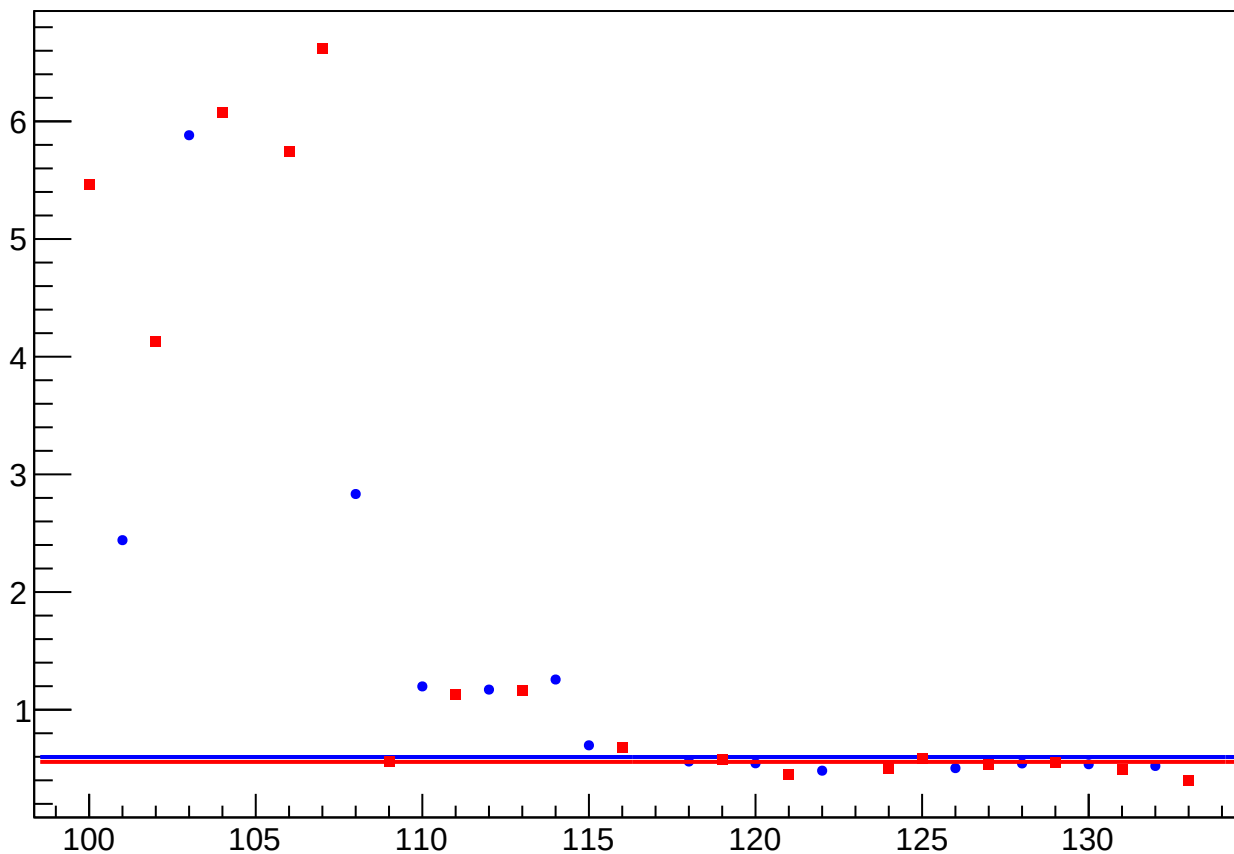
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -39.412+/-0.000  $\chi^2/\text{NDF}$ : 5923605882.3/33

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cY\_rms vs Slug



Right In: 0.598+/-0.000  $\chi^2/\text{NDF}$ : 2566996.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.557+/-0.000  $\chi^2/\text{NDF}$ : 3114118.5/16

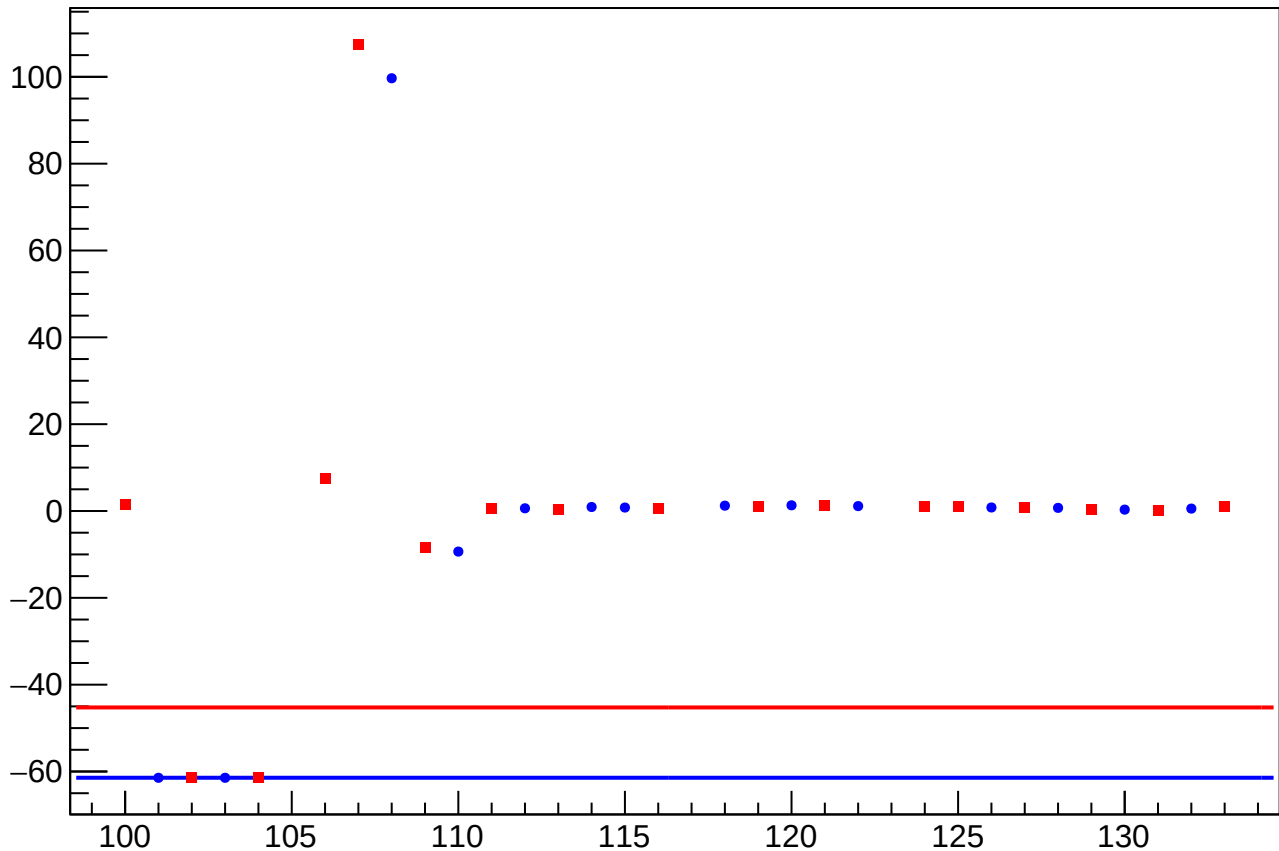
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.575+/-0.000  $\chi^2/\text{NDF}$ : 5703333.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dX\_mean vs Slug



Right In: -61.437+/-0.000  $\chi^2/\text{NDF}$ : 245458771241.9/13

+ 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

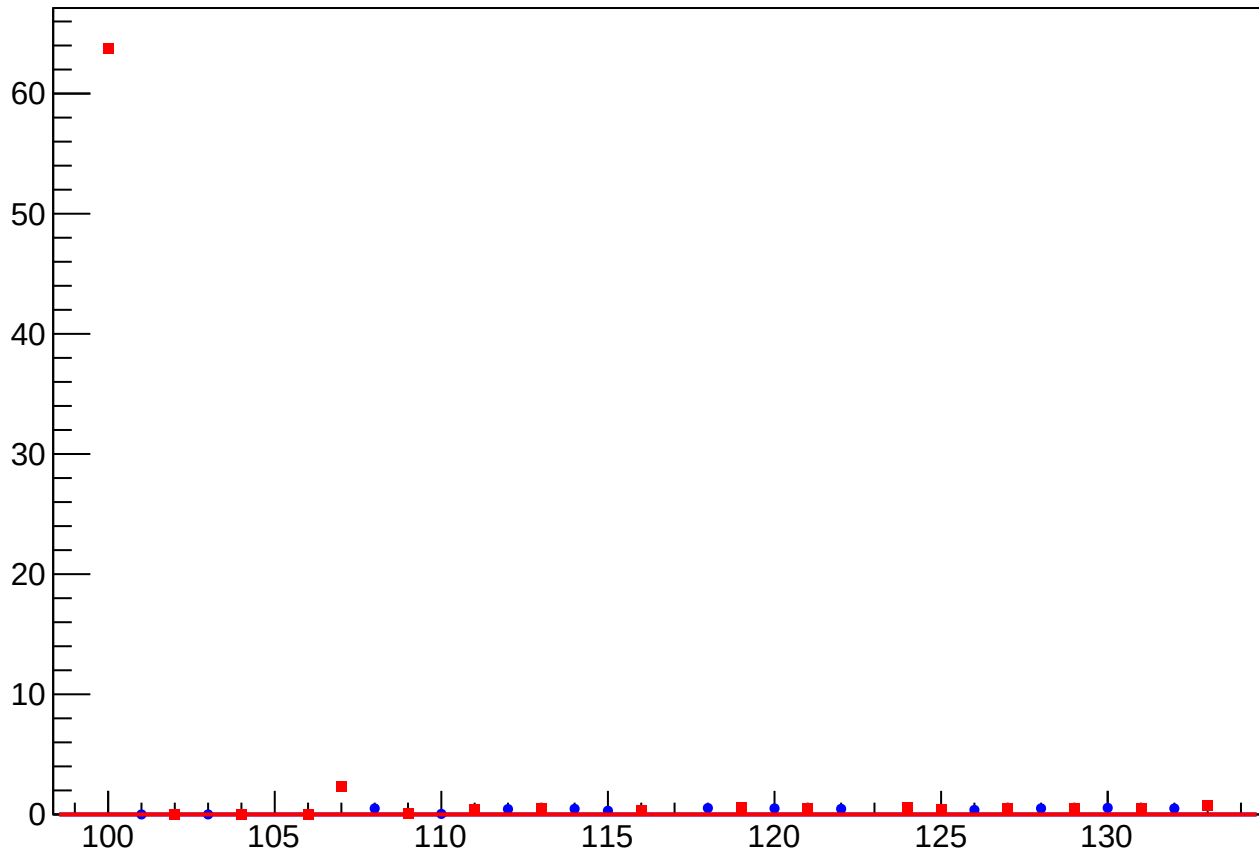
All: -52.750+/-0.000  $\chi^2/\text{NDF}$ : 409089396734

Right Out: -45.246+/-0.000  $\chi^2/\text{NDF}$ : 357861613743621.8/16

- 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  $\chi^2/\text{NDF}$ : 7237007.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 8178150.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

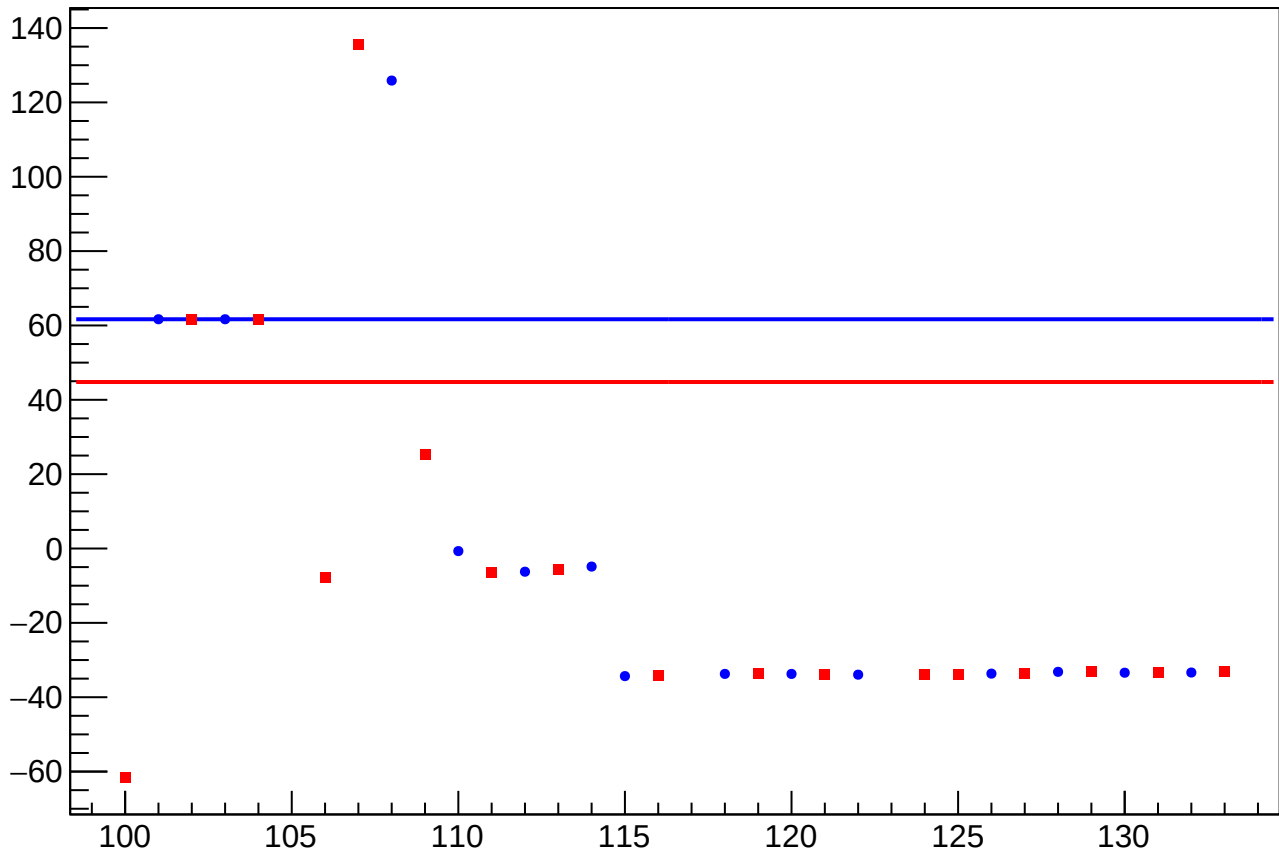
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 15415158.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_cav4dY\_mean vs Slug



Right In: 61.667 $\pm$ 0.000  $\chi^2$ /NDF: 202808316783.9/13

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

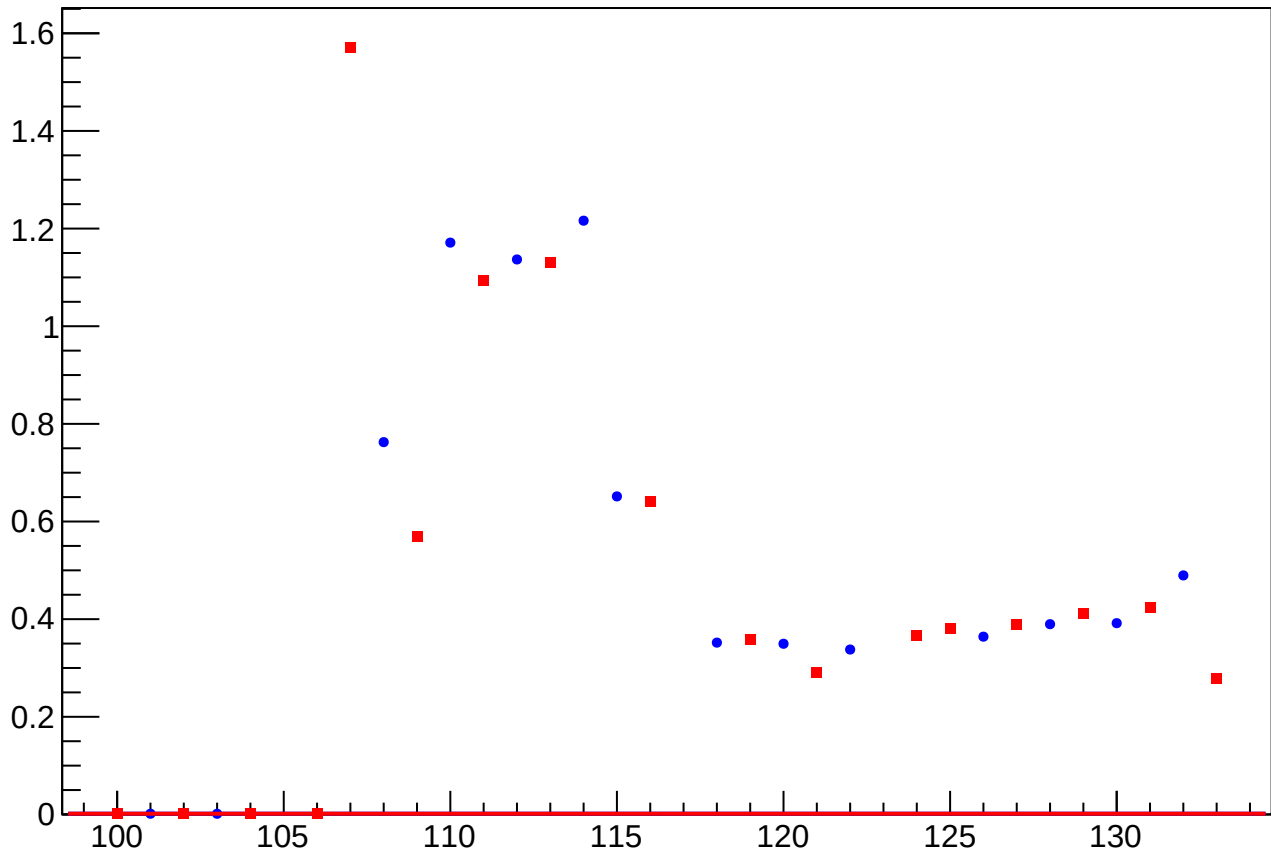
Right Out: 44.788 $\pm$ 0.000  $\chi^2$ /NDF: 366030934984450.7/16

All: 52.692 $\pm$ 0.000  $\chi^2$ /NDF: 4173540909283

- 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\_cav4dY\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 8735361.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 9237915.7/16

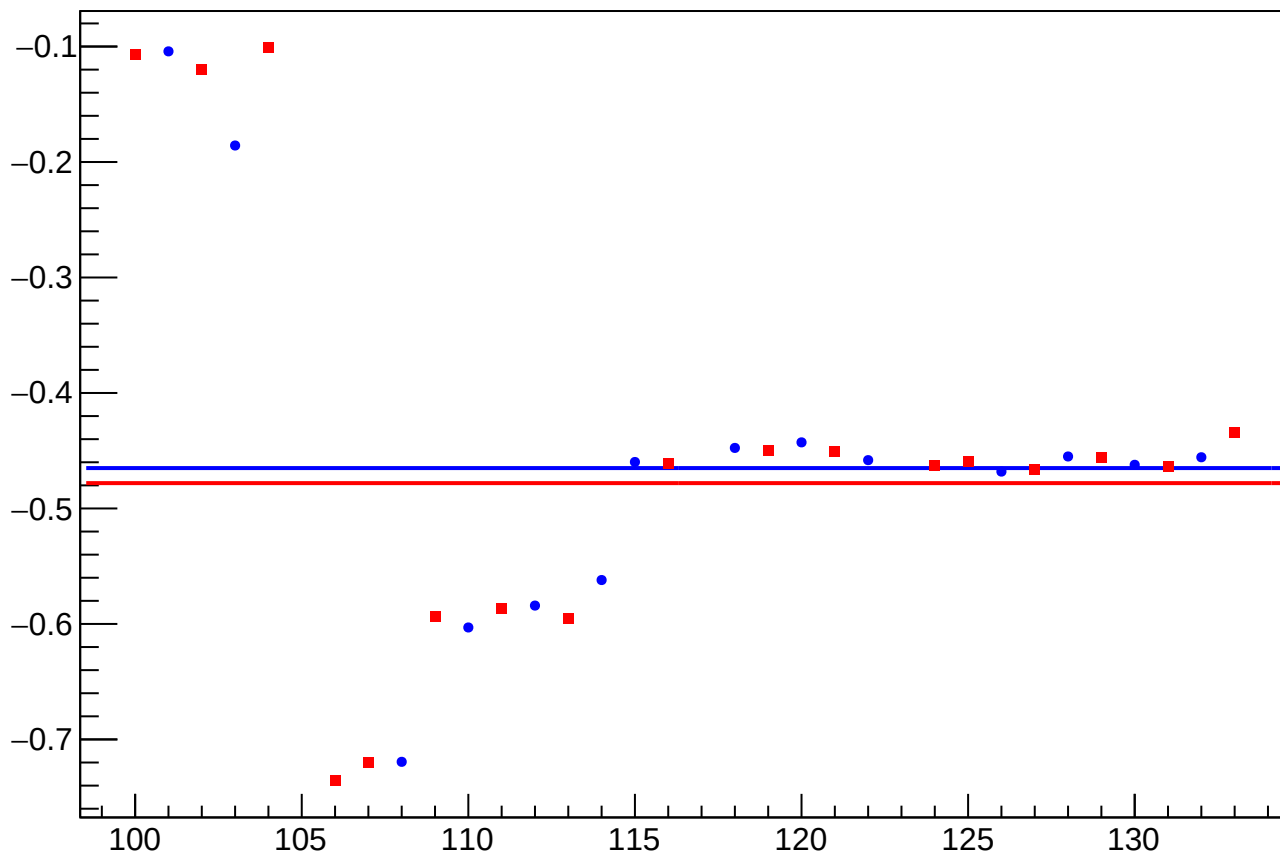
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 17973513.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aX\_mean vs Slug



Right In: -0.465+/-0.000  $\chi^2/\text{NDF}$ : 106565326.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.478+/-0.000  $\chi^2/\text{NDF}$ : 102355102.7/16

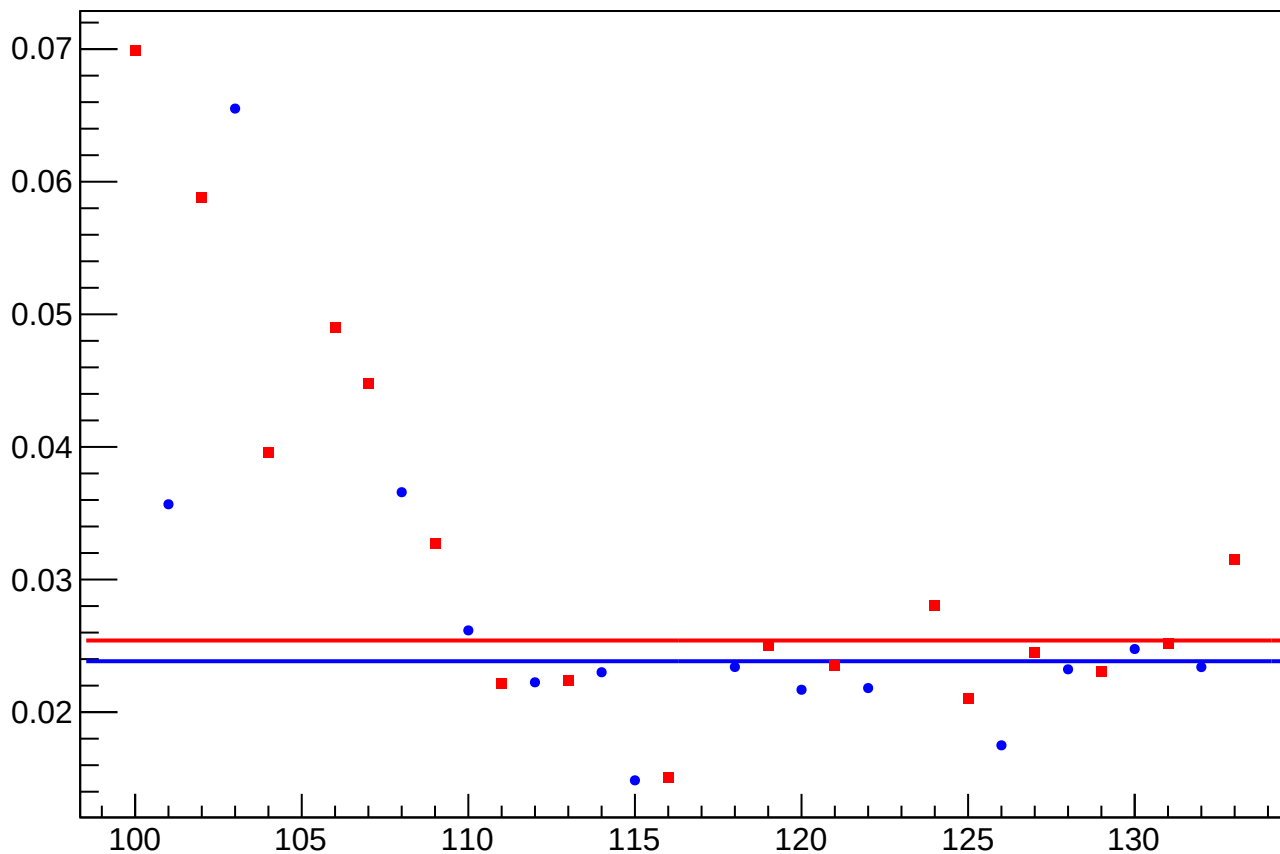
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.472+/-0.000  $\chi^2/\text{NDF}$ : 209595852.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aX\_rms vs Slug



Right In: 0.024 $\pm$ 0.000  $\chi^2$ /NDF: 840285.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.025 $\pm$ 0.000  $\chi^2$ /NDF: 1038305.5/16

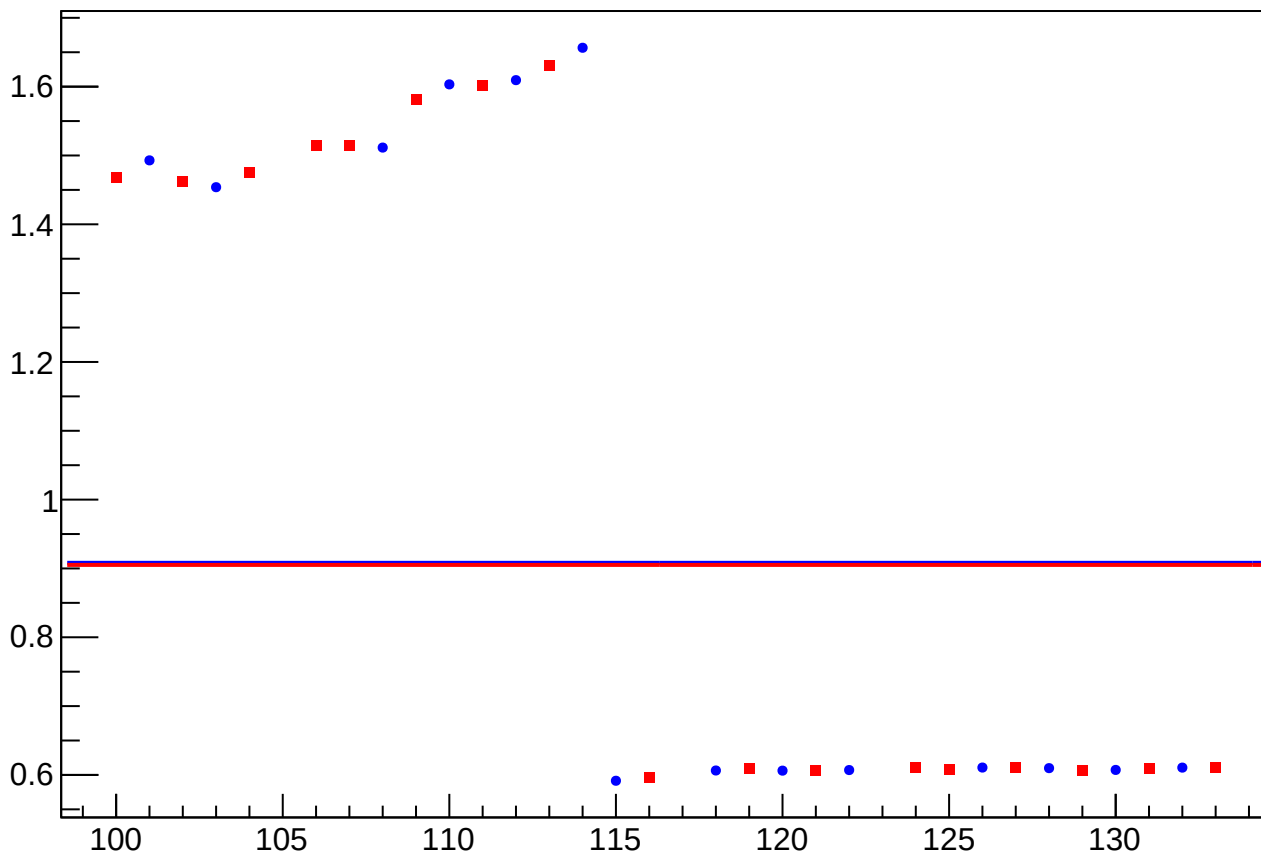
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.025 $\pm$ 0.000  $\chi^2$ /NDF: 1898023.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm4aY\_mean vs Slug



Right In: 0.908+/-0.000  $\chi^2/\text{NDF}$ : 3280226385.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.905+/-0.000  $\chi^2/\text{NDF}$ : 3978830347.9/16

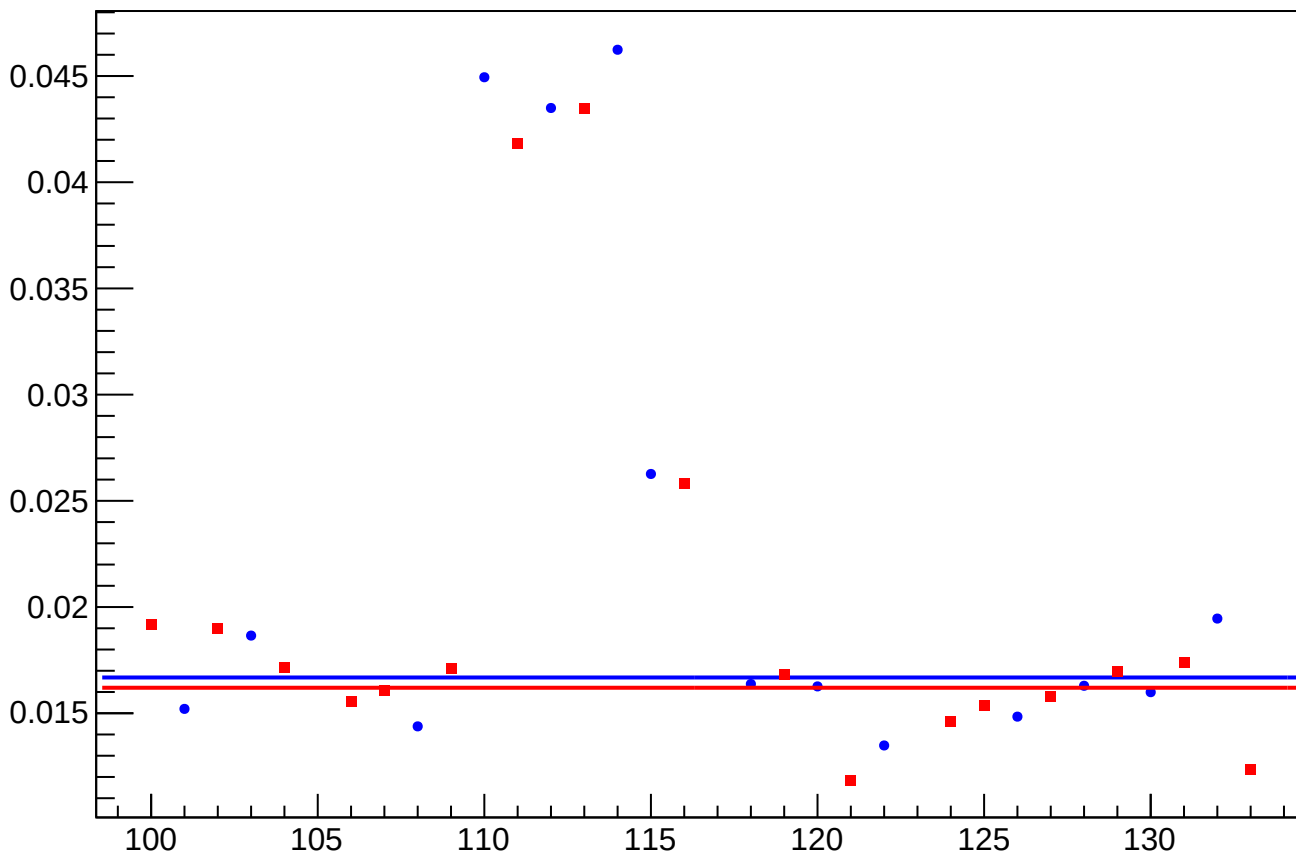
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.907+/-0.000  $\chi^2/\text{NDF}$ : 7259148194.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aY\_rms vs Slug



Right In: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 858486.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 986101.9/16

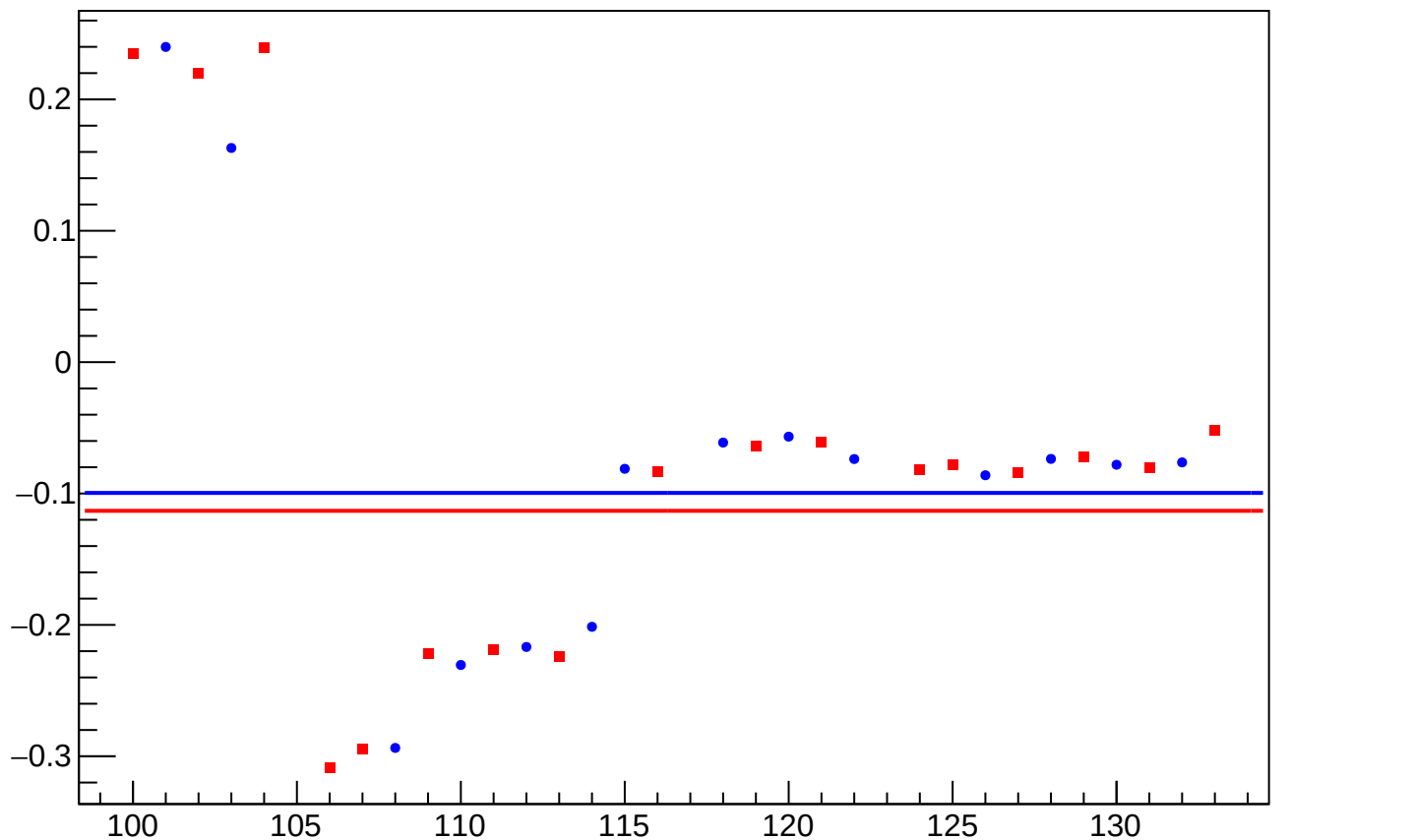
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 1849285.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eX\_mean vs Slug



Right In: -0.100+/-0.000  $\chi^2/\text{NDF}$ : 106545611.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.113+/-0.000  $\chi^2/\text{NDF}$ : 110655827.6/16

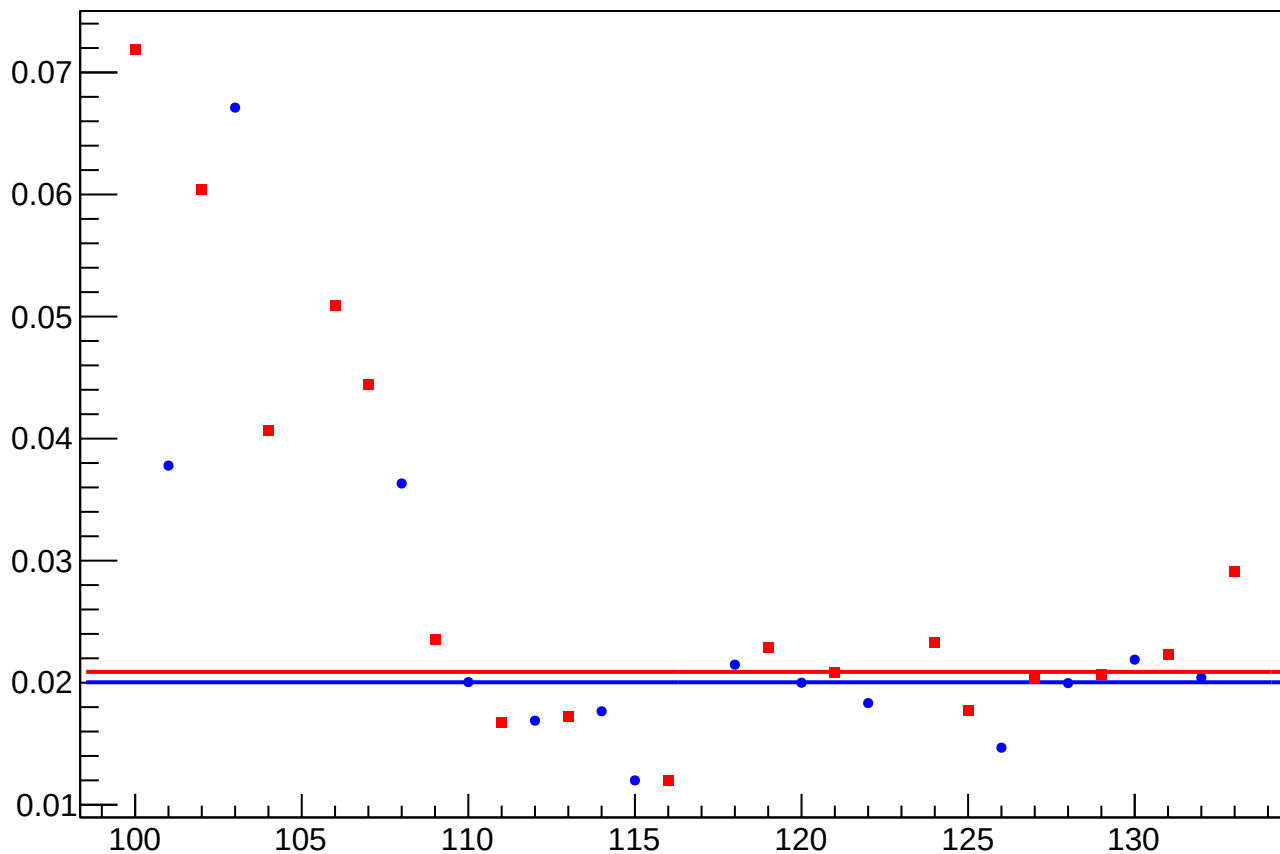
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.106+/-0.000  $\chi^2/\text{NDF}$ : 218232587.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eX\_rms vs Slug



Right In: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 1163563.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 1432123.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

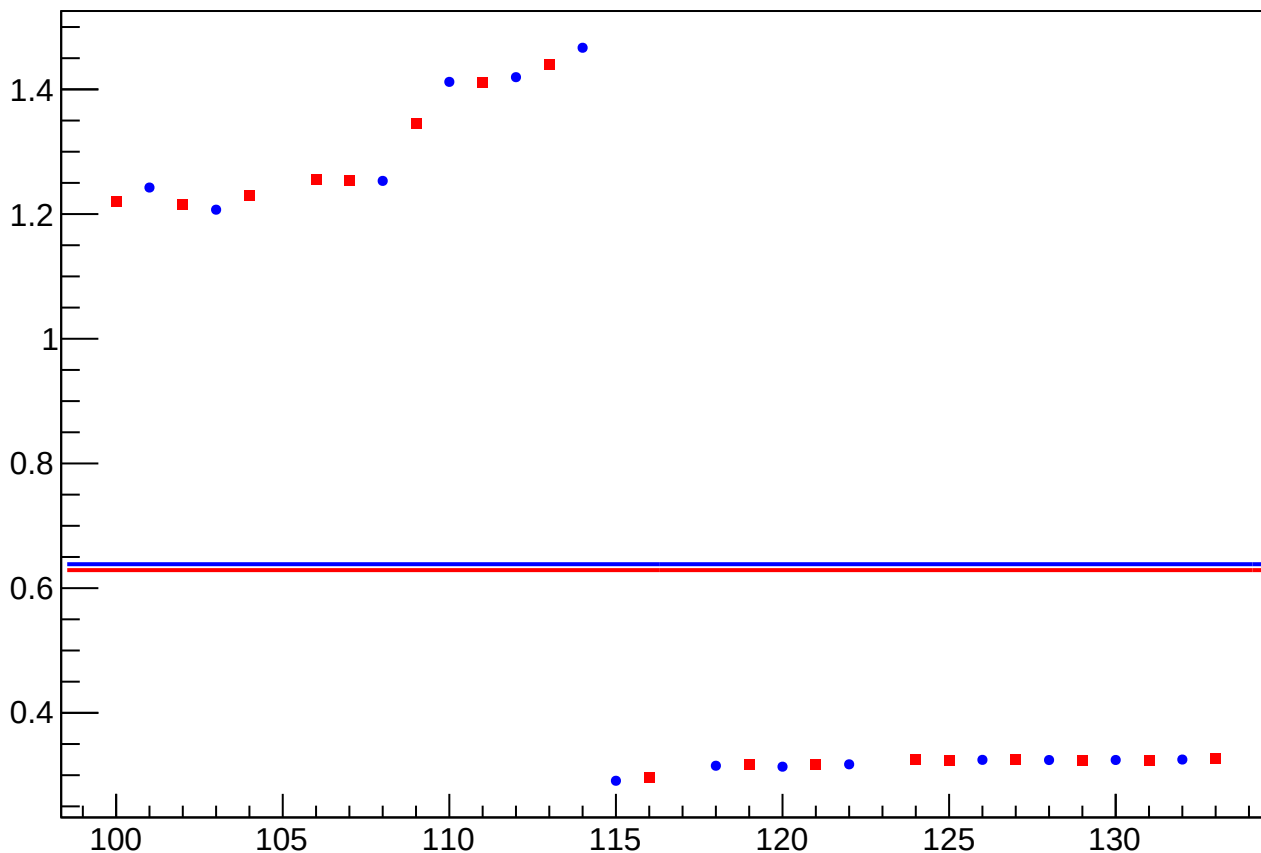
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 2603787.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm4eY\_mean vs Slug



Right In: 0.638+/-0.000  $\chi^2/\text{NDF}$ : 5232106777.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.629+/-0.000  $\chi^2/\text{NDF}$ : 6002906563.0/16

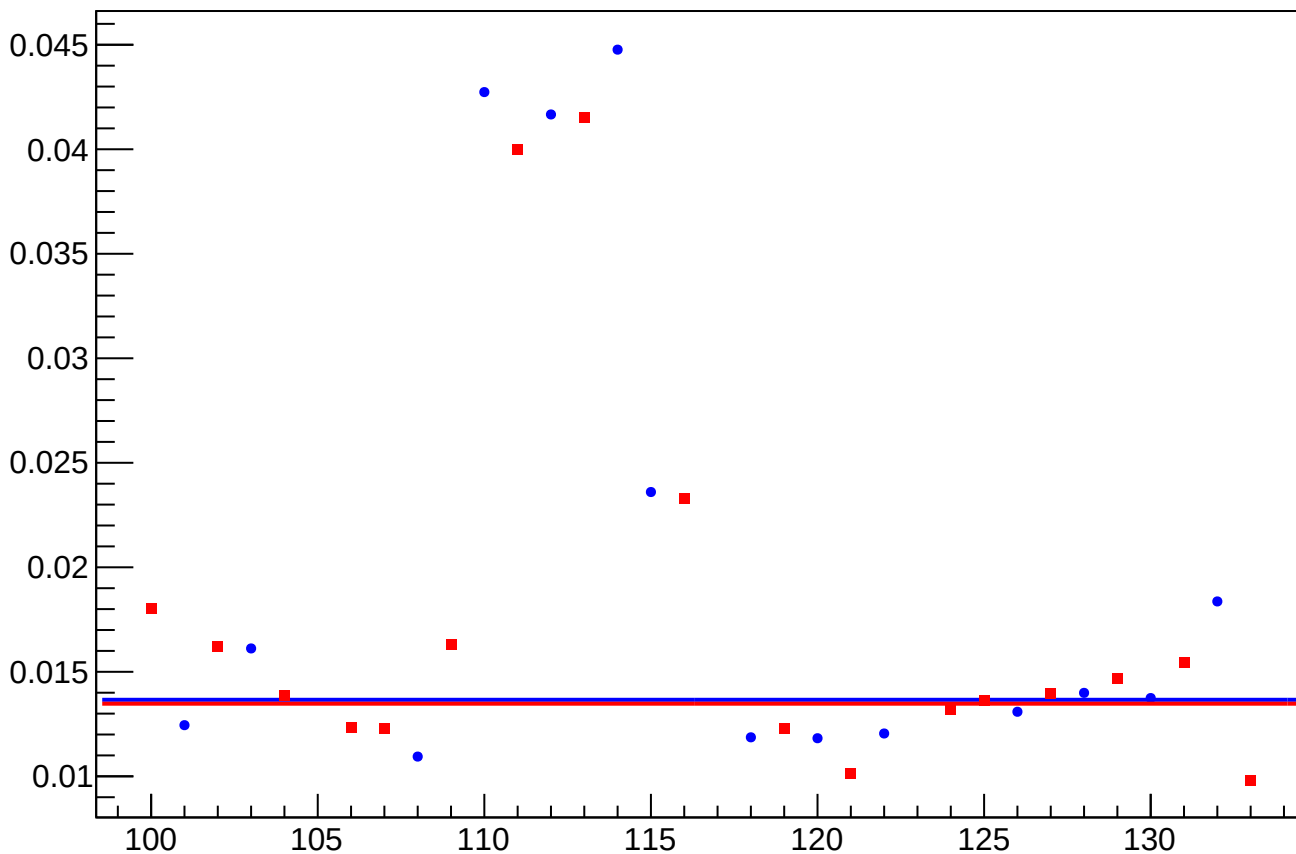
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.633+/-0.000  $\chi^2/\text{NDF}$ : 11236306108.8/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eY\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 1060838.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 1171669.4/16

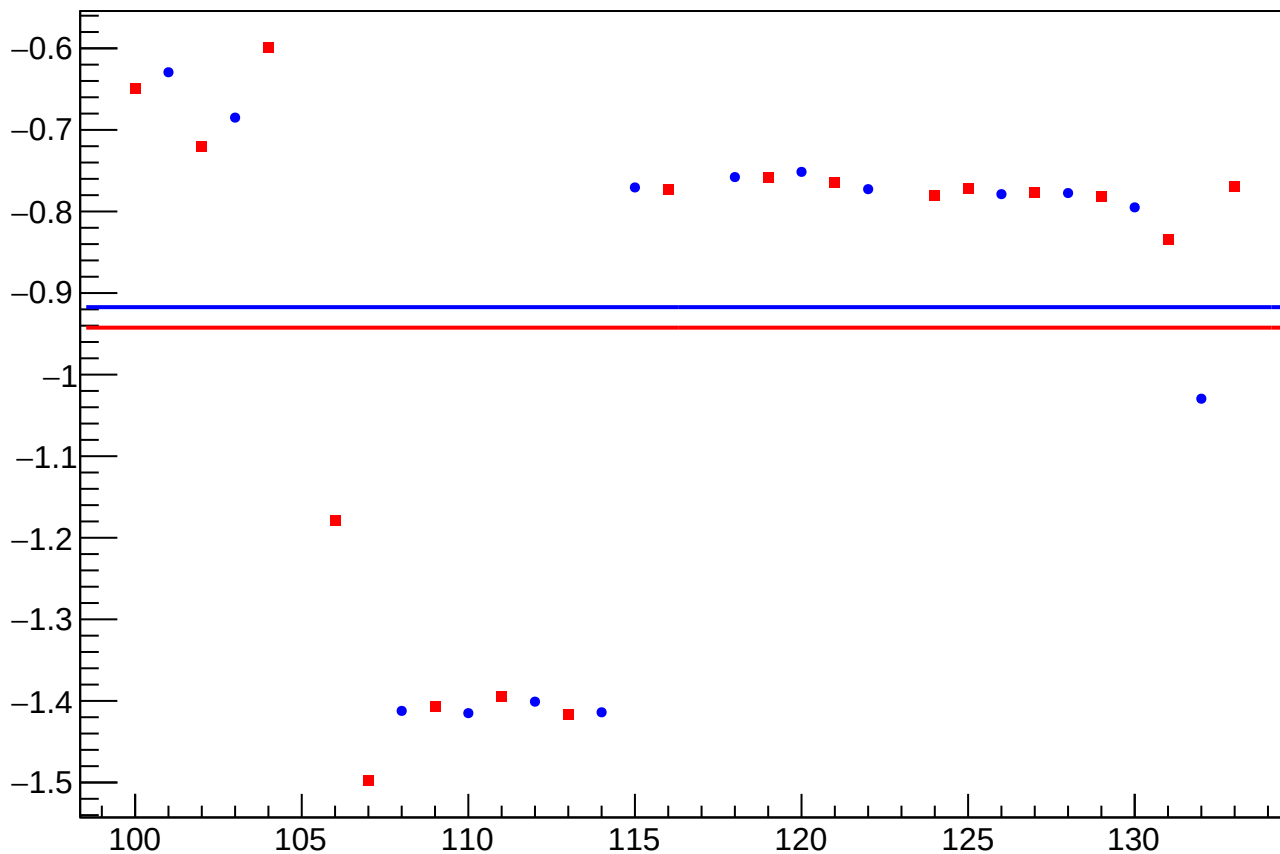
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 2233511.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acX\_mean vs Slug



Right In: -0.917+/-0.000  $\chi^2/\text{NDF}$ : 594281199.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.942+/-0.000  $\chi^2/\text{NDF}$ : 682684853.6/16

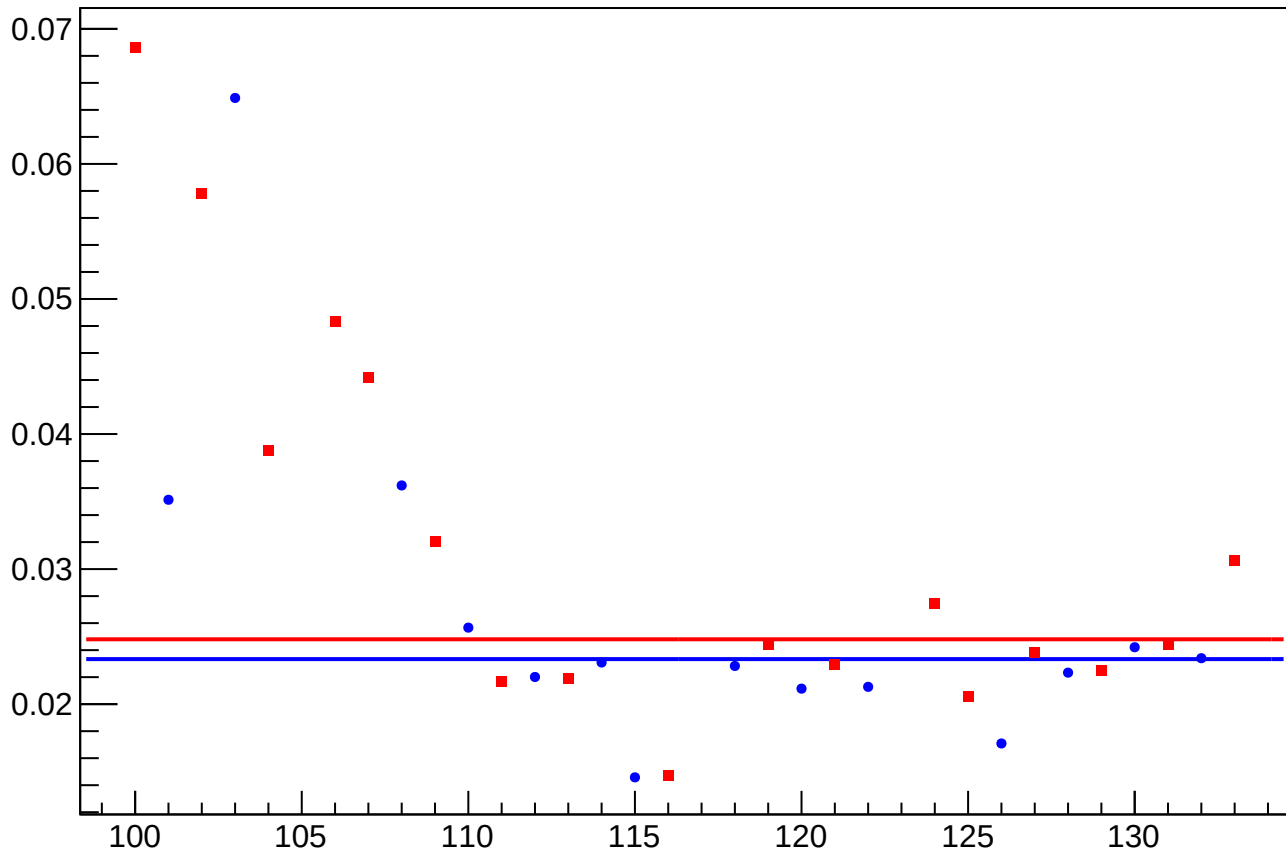
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.930+/-0.000  $\chi^2/\text{NDF}$ : 1279585818.8/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acX\_rms vs Slug



Right In: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 851289.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.025+/-0.000  $\chi^2/\text{NDF}$ : 1046226.7/16

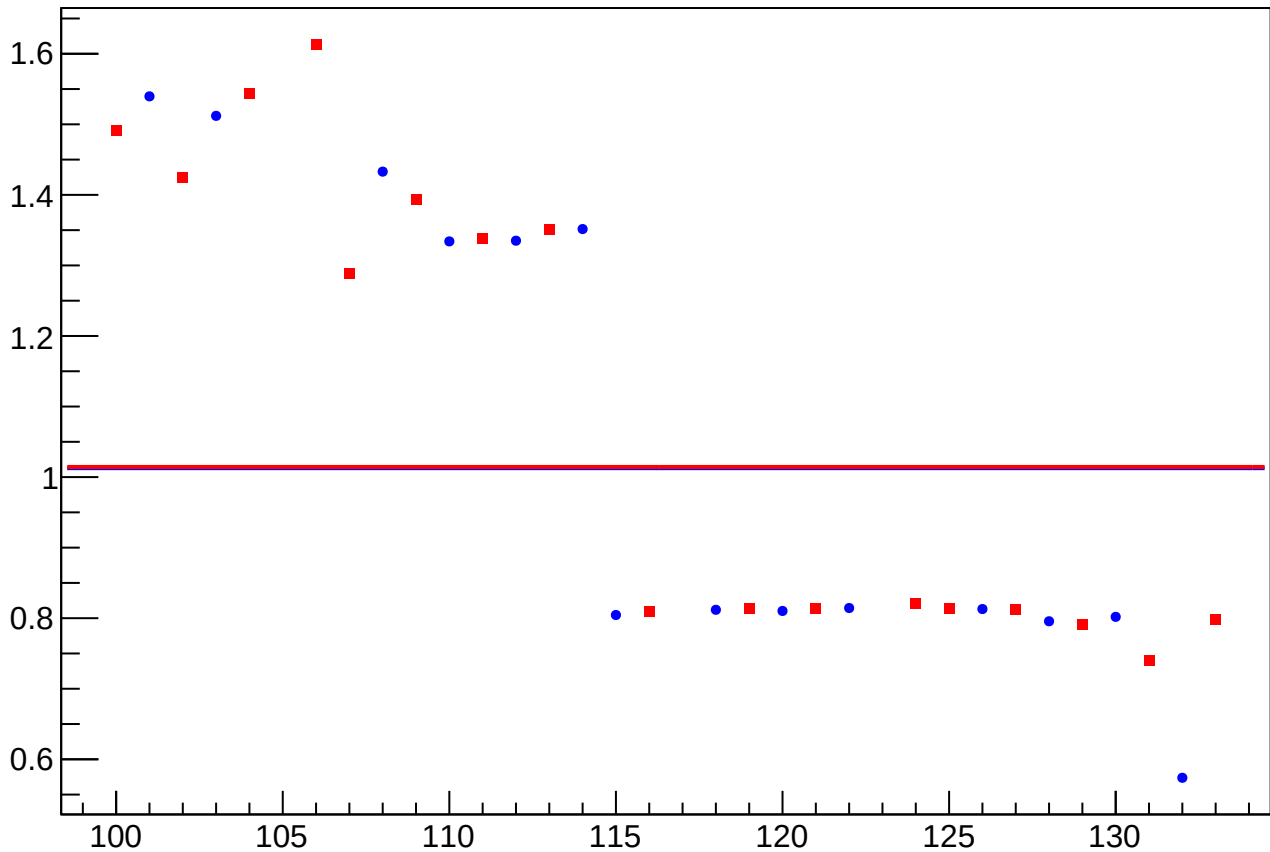
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 1915368.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acY\_mean vs Slug



Right In: 1.013+/-0.000  $\chi^2/\text{NDF}$ : 2004636062.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.014+/-0.000  $\chi^2/\text{NDF}$ : 2111093906.6/16

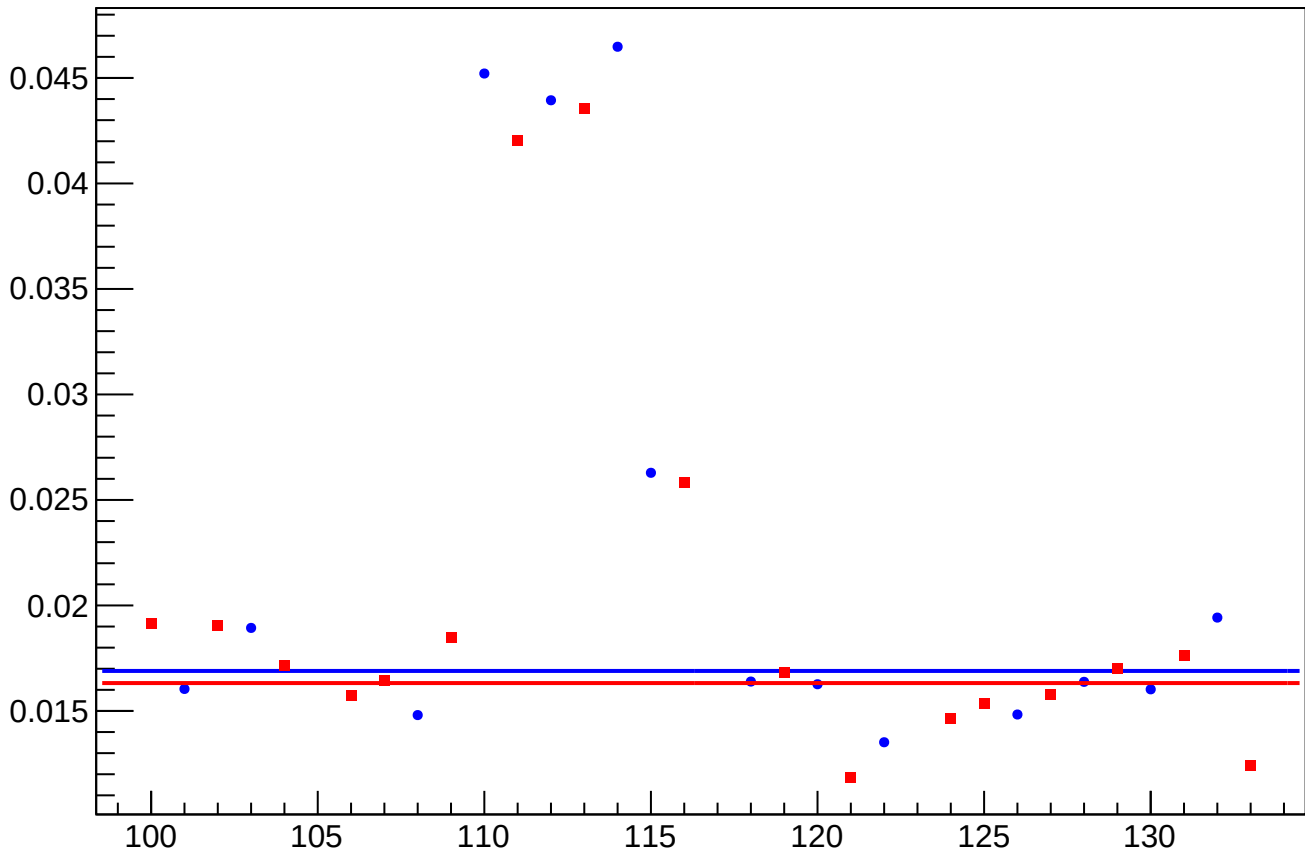
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.014+/-0.000  $\chi^2/\text{NDF}$ : 4115759849.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acY\_rms vs Slug



Right In: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 849436.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 994202.0/16

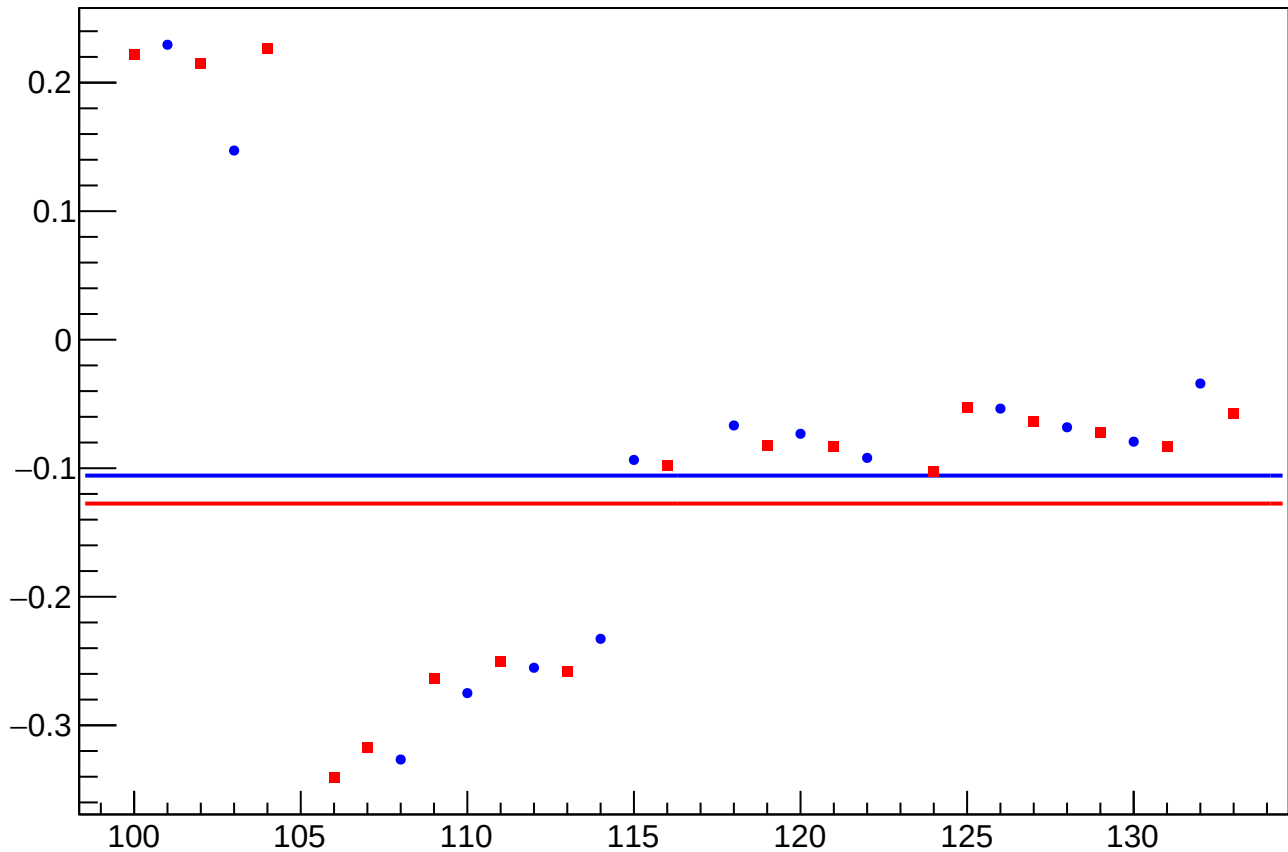
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 1850121.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4ecX\_mean vs Slug



Right In: -0.106+/-0.000  $\chi^2/\text{NDF}$ : 135297275.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.127+/-0.000  $\chi^2/\text{NDF}$ : 134292623.1/16

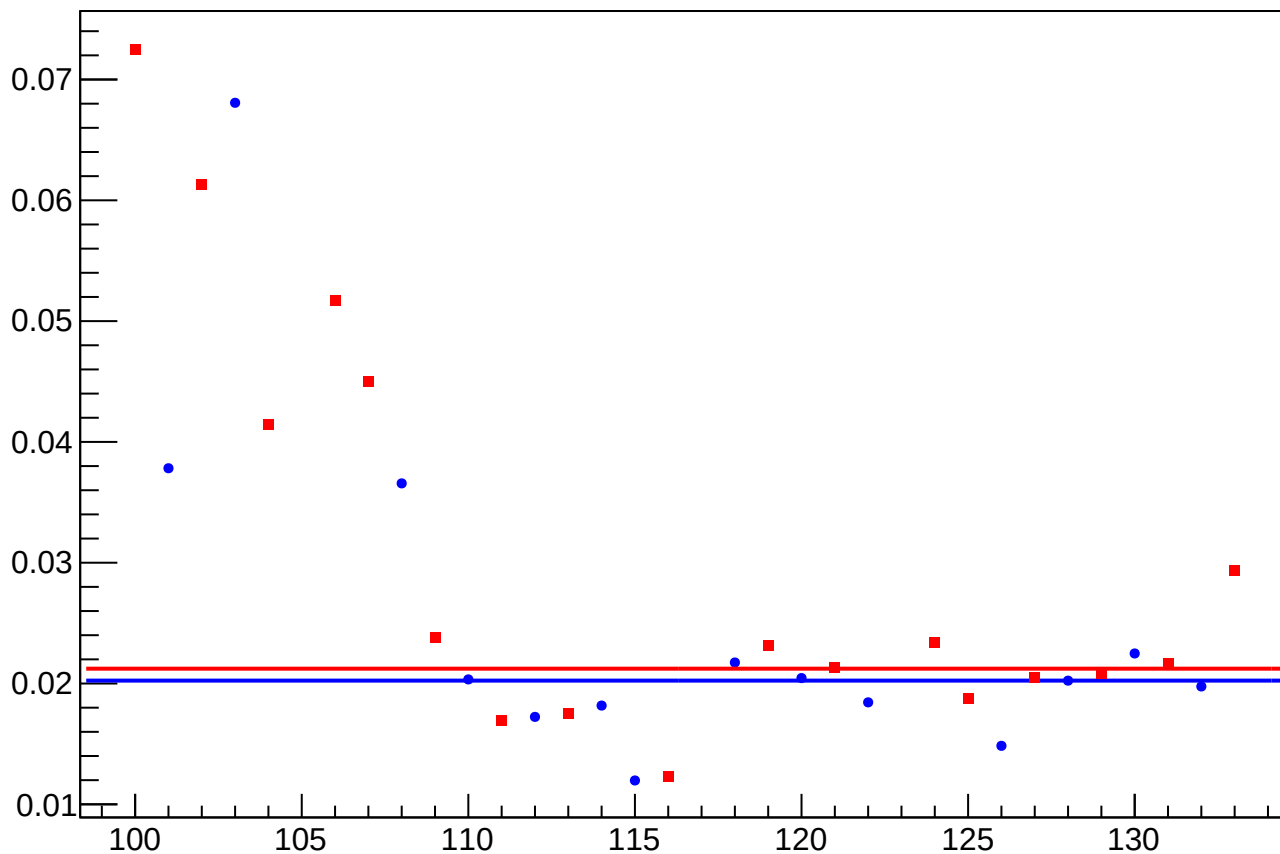
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.117+/-0.000  $\chi^2/\text{NDF}$ : 272158370.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4ecX\_rms vs Slug



Right In: 0.020 $\pm$ 0.000  $\chi^2$ /NDF: 1158108.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.021 $\pm$ 0.000  $\chi^2$ /NDF: 1411760.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

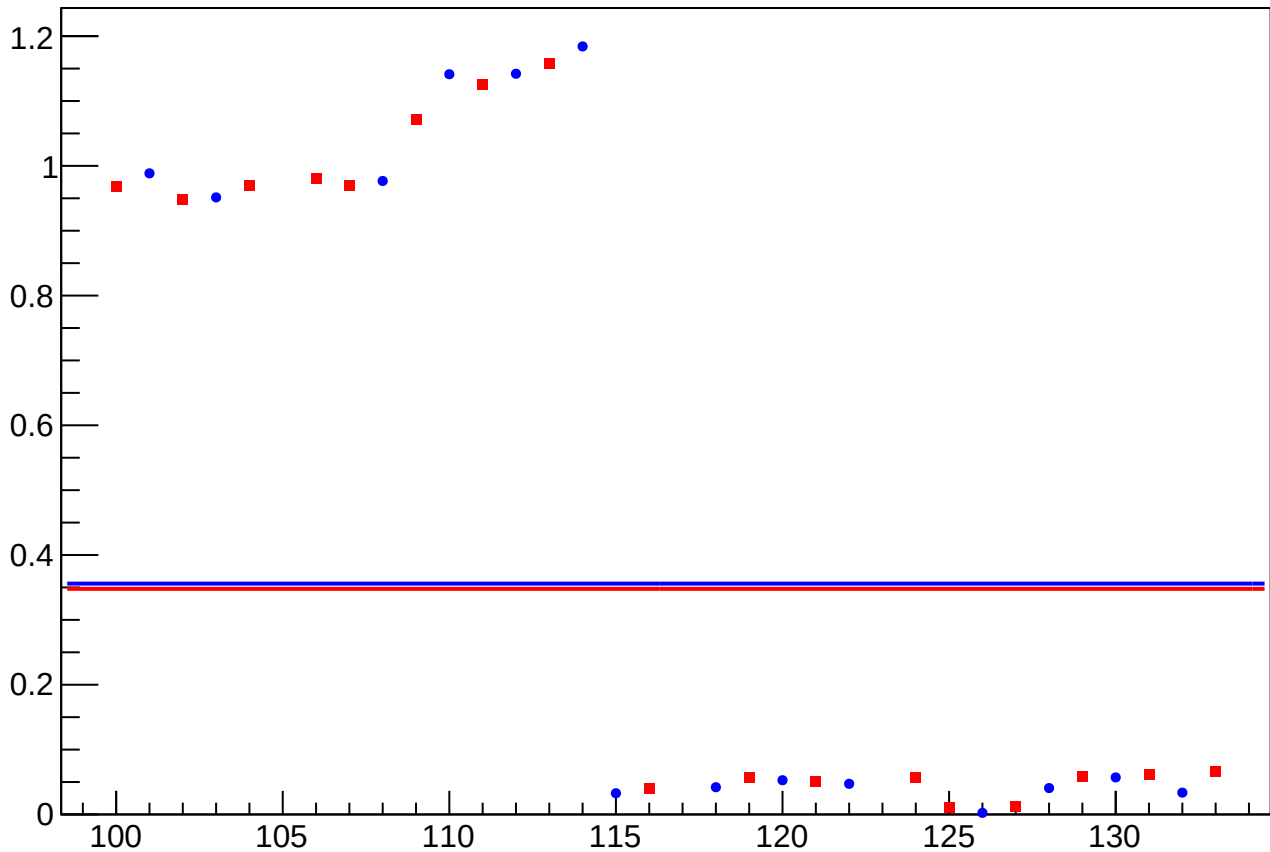
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.021 $\pm$ 0.000  $\chi^2$ /NDF: 2580469.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bpm4ecY\_mean vs Slug



Right In: 0.356+/-0.000  $\chi^2/\text{NDF}$ : 5476908353.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.348+/-0.000  $\chi^2/\text{NDF}$ : 6050870661.4/16

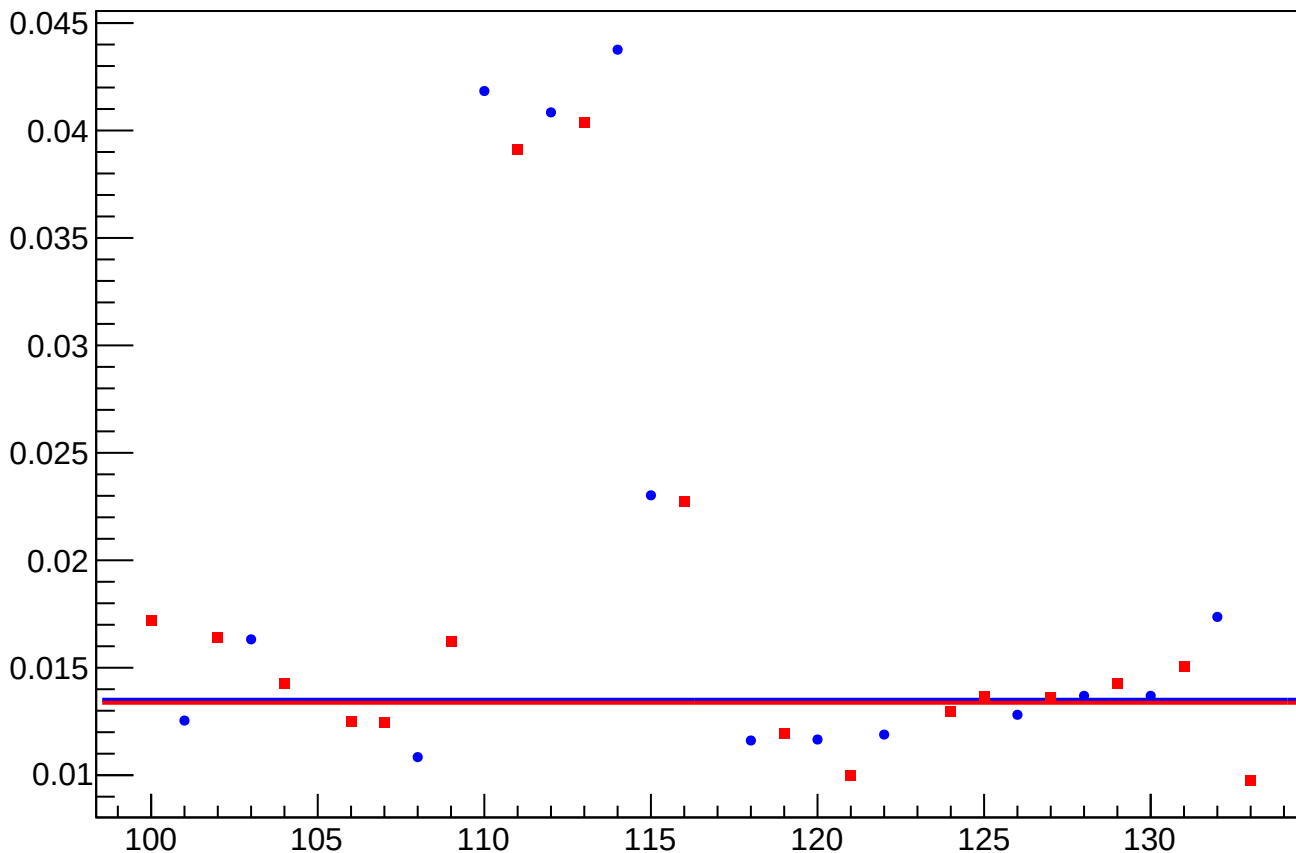
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.352+/-0.000  $\chi^2/\text{NDF}$ : 11528735655.3/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4ecY\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 1047481.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 1158655.8/16

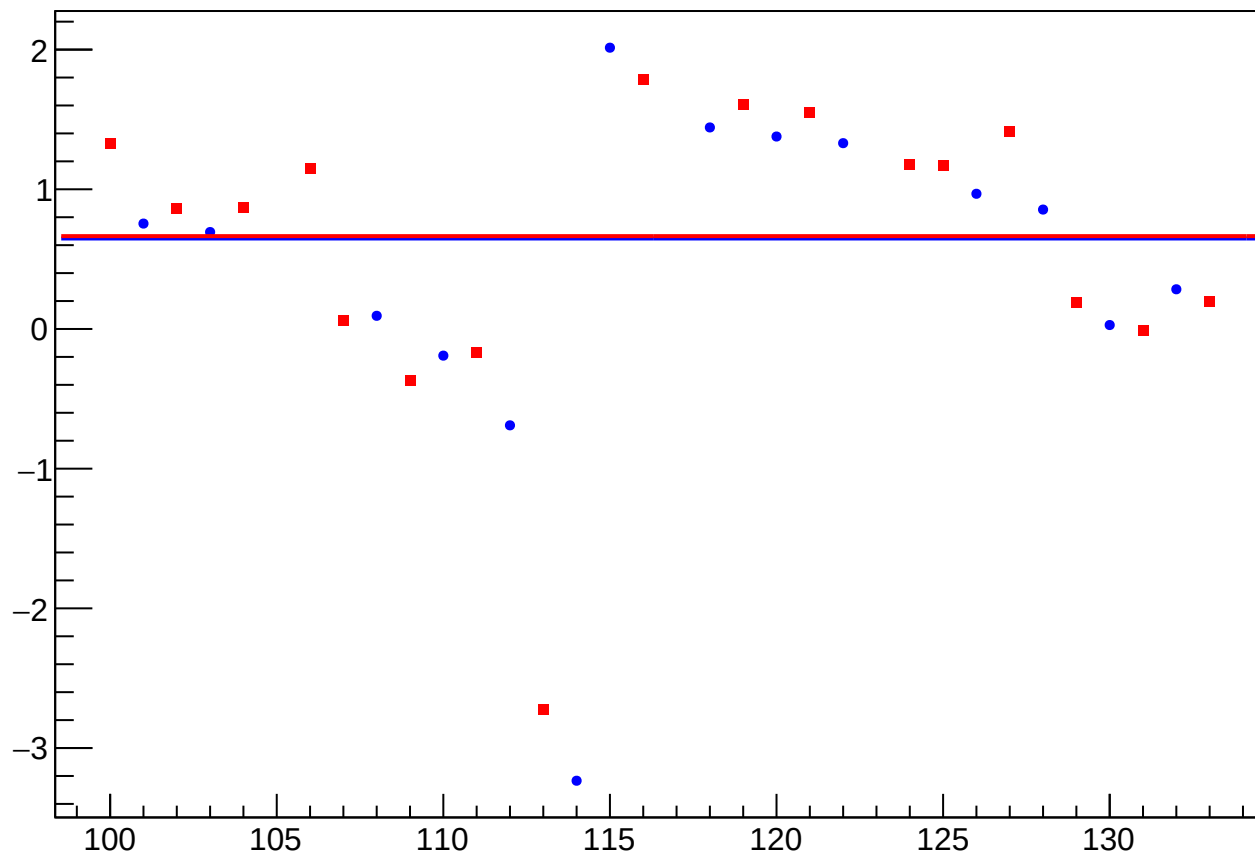
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 2206697.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1X\_mean vs Slug



Right In: 0.648+/-0.000  $\chi^2/\text{NDF}$ : 419256305.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.665+/-0.000  $\chi^2/\text{NDF}$ : 1119812784.9/16

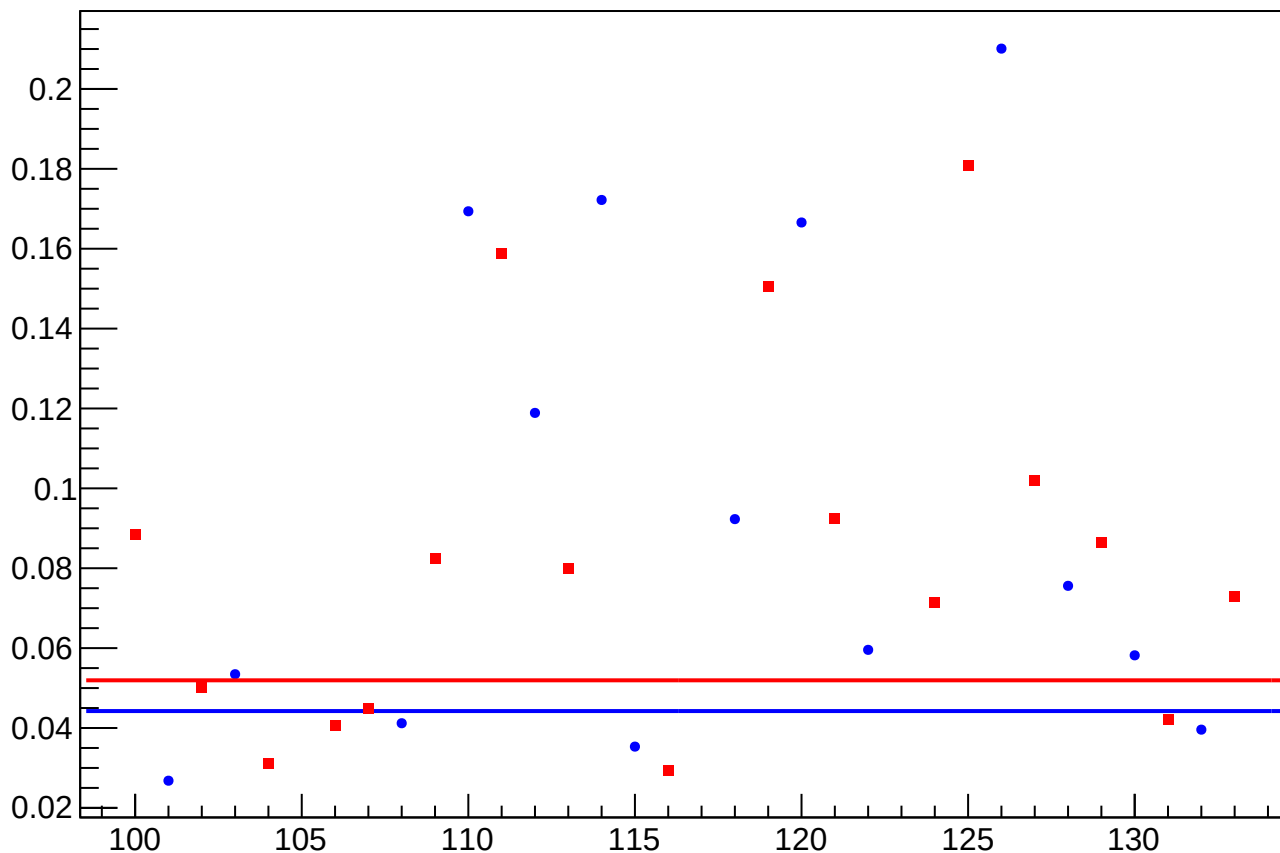
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.656+/-0.000  $\chi^2/\text{NDF}$ : 1539290694.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1X\_rms vs Slug



Right In: 0.044+/-0.000  $\chi^2/\text{NDF}$ : 2568434.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.052+/-0.000  $\chi^2/\text{NDF}$ : 2353786.5/16

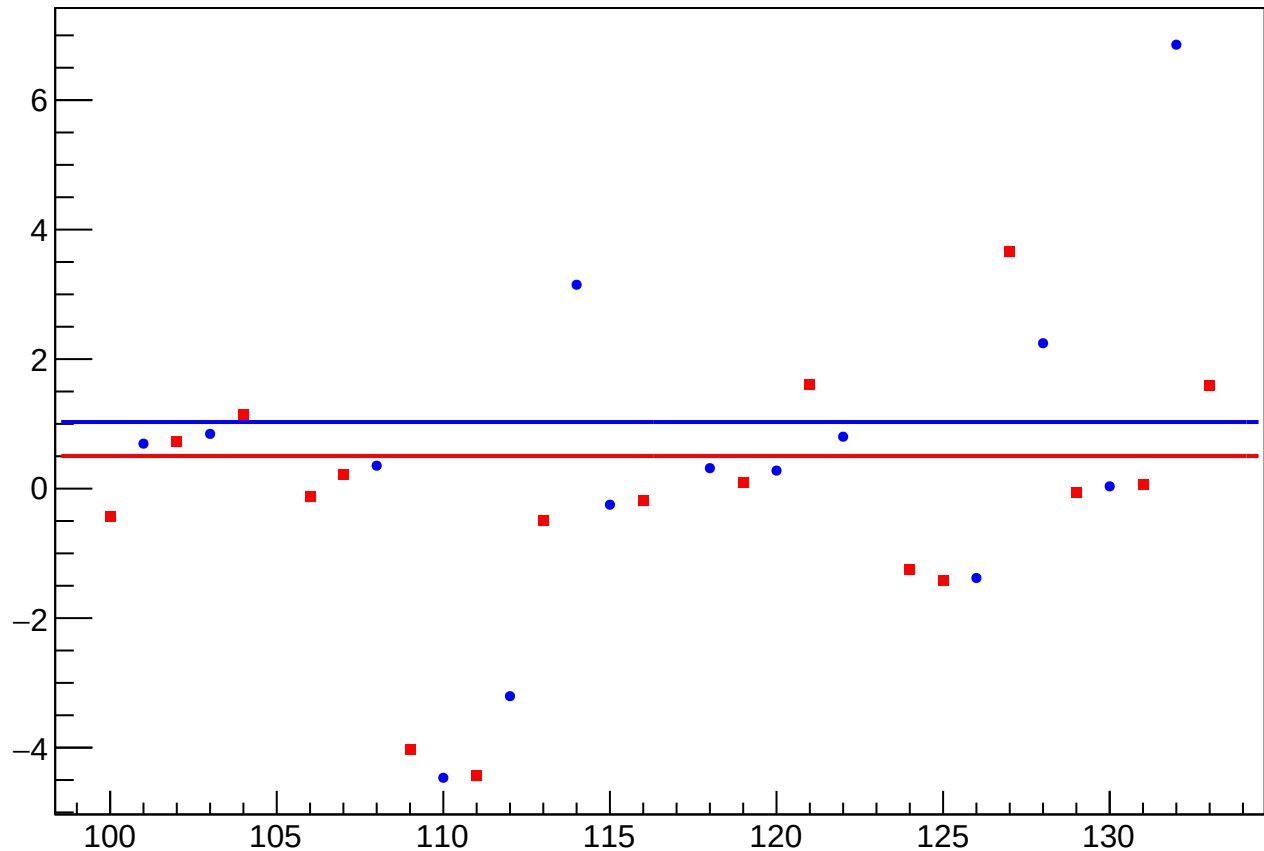
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.048+/-0.000  $\chi^2/\text{NDF}$ : 5014935.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1Y\_mean vs Slug



Right In: 1.029+/-0.000  $\chi^2/\text{NDF}$ : 10300137302.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.504+/-0.000  $\chi^2/\text{NDF}$ : 4584991014.1/16

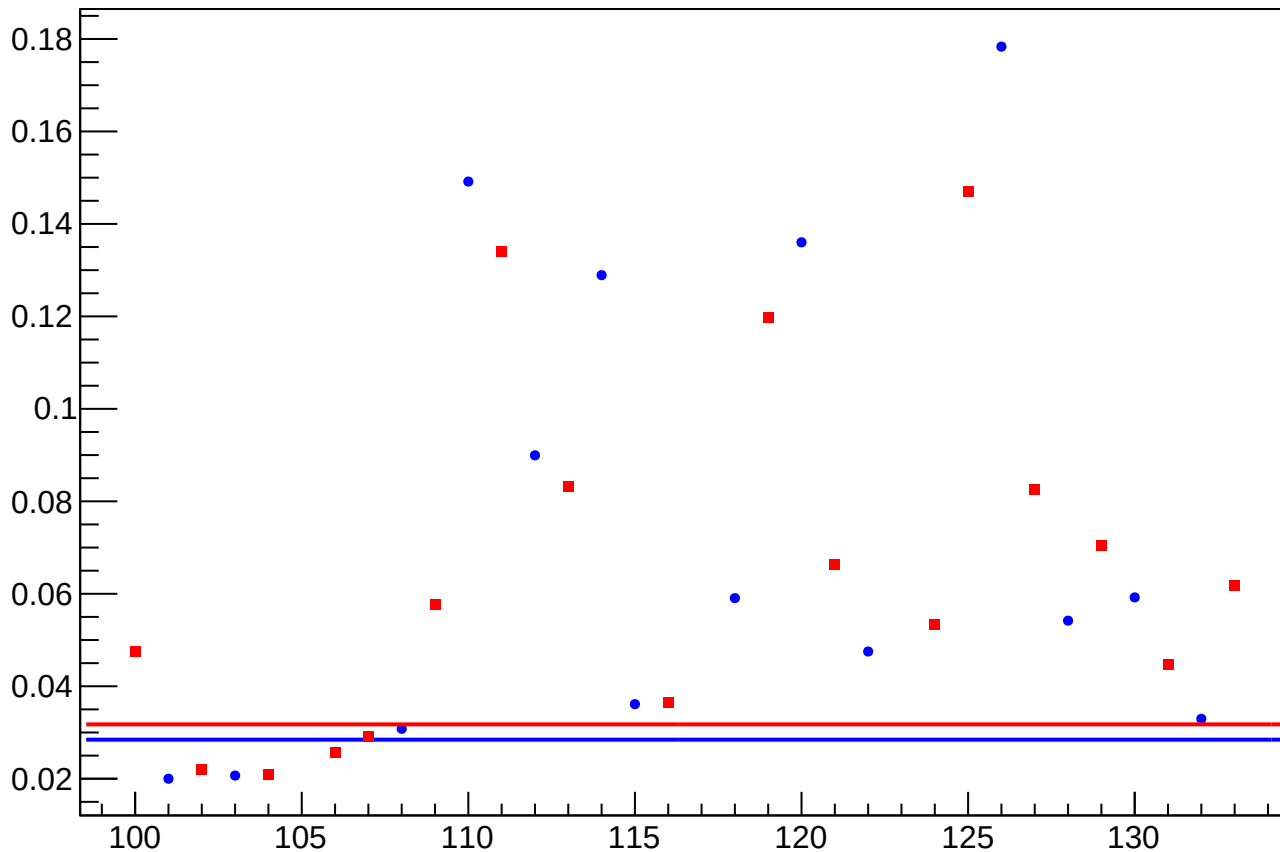
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.772+/-0.000  $\chi^2/\text{NDF}$ : 15404974499.0/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1Y\_rms vs Slug



Right In: 0.028+/-0.000  $\chi^2/\text{NDF}$ : 2890063.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 3233243.6/16

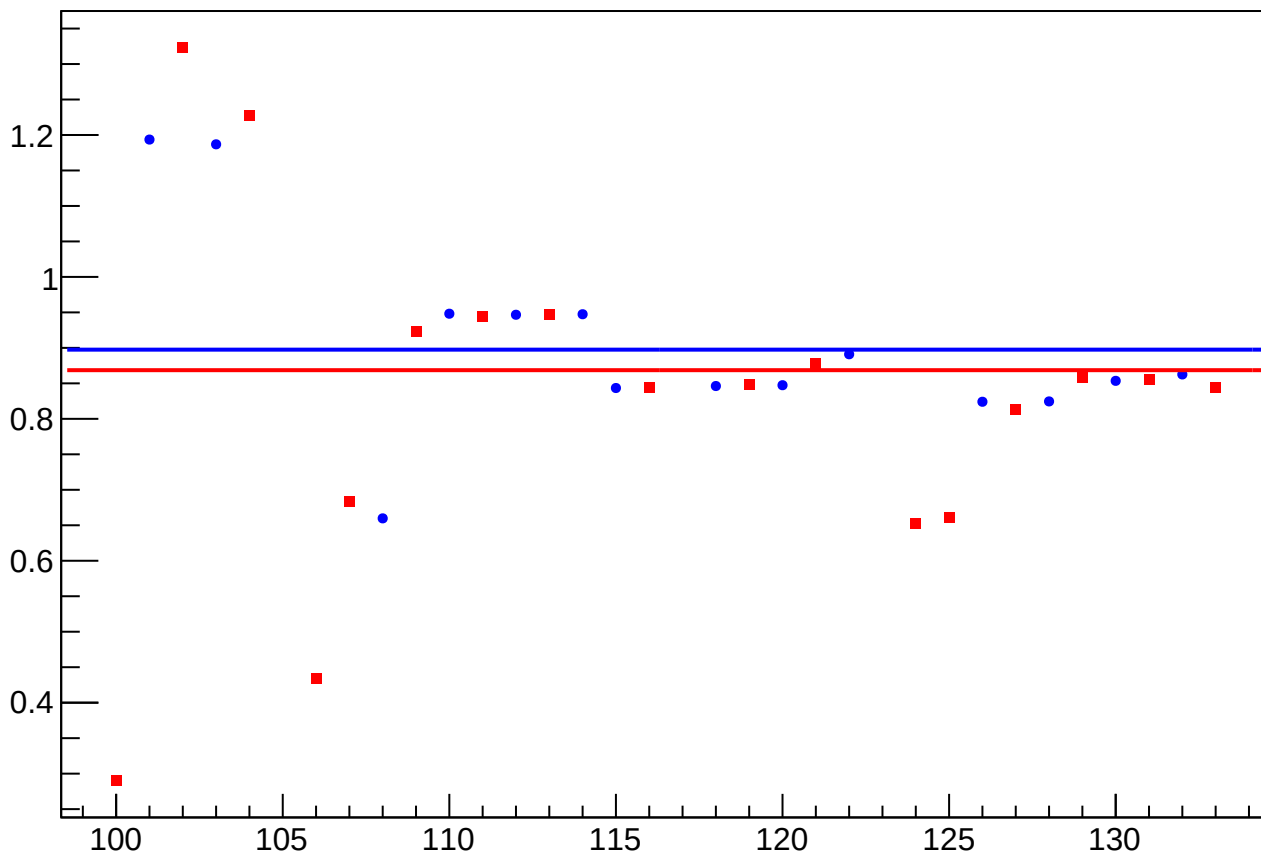
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.030+/-0.000  $\chi^2/\text{NDF}$ : 6164595.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm11X\_mean vs Slug



Right In: 0.898 $\pm$ 0.000  $\chi^2$ /NDF: 343628719.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.869 $\pm$ 0.000  $\chi^2$ /NDF: 603998687.2/16

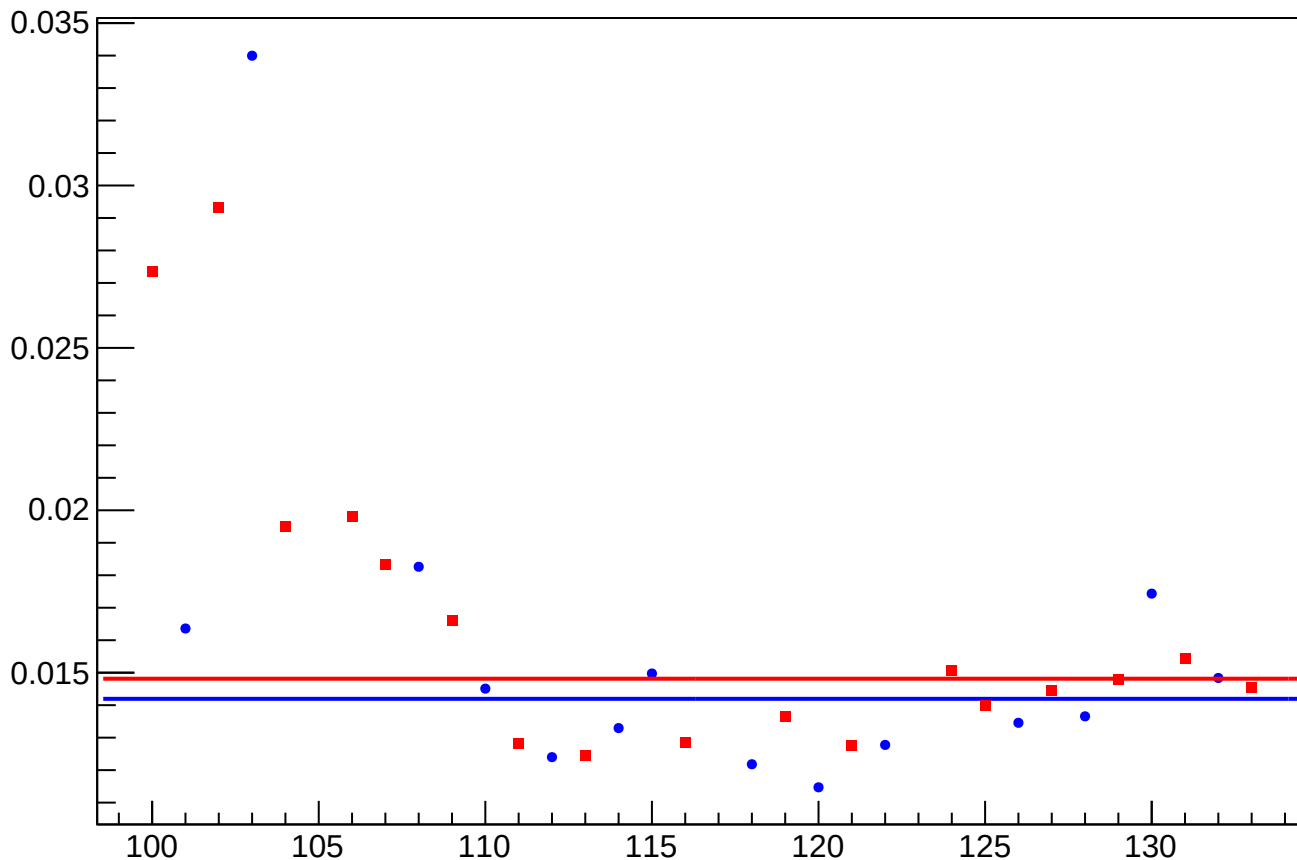
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.883 $\pm$ 0.000  $\chi^2$ /NDF: 958403352.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm11X\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 567572.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 503957.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

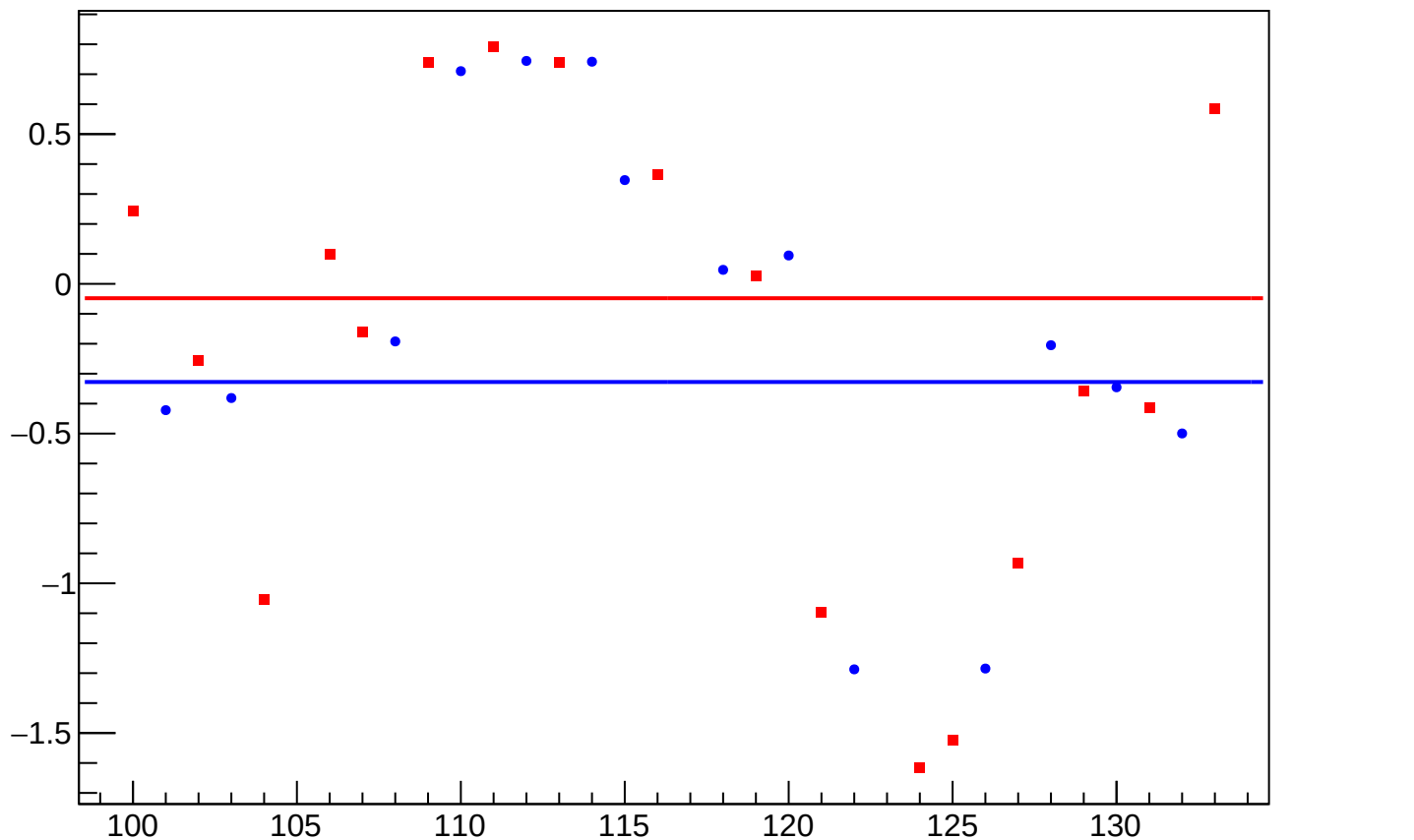
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1081406.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm11Y\_mean vs Slug



Right In: -0.328+/-0.000  $\chi^2/\text{NDF}$ : 5464002427.2/13

+ 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

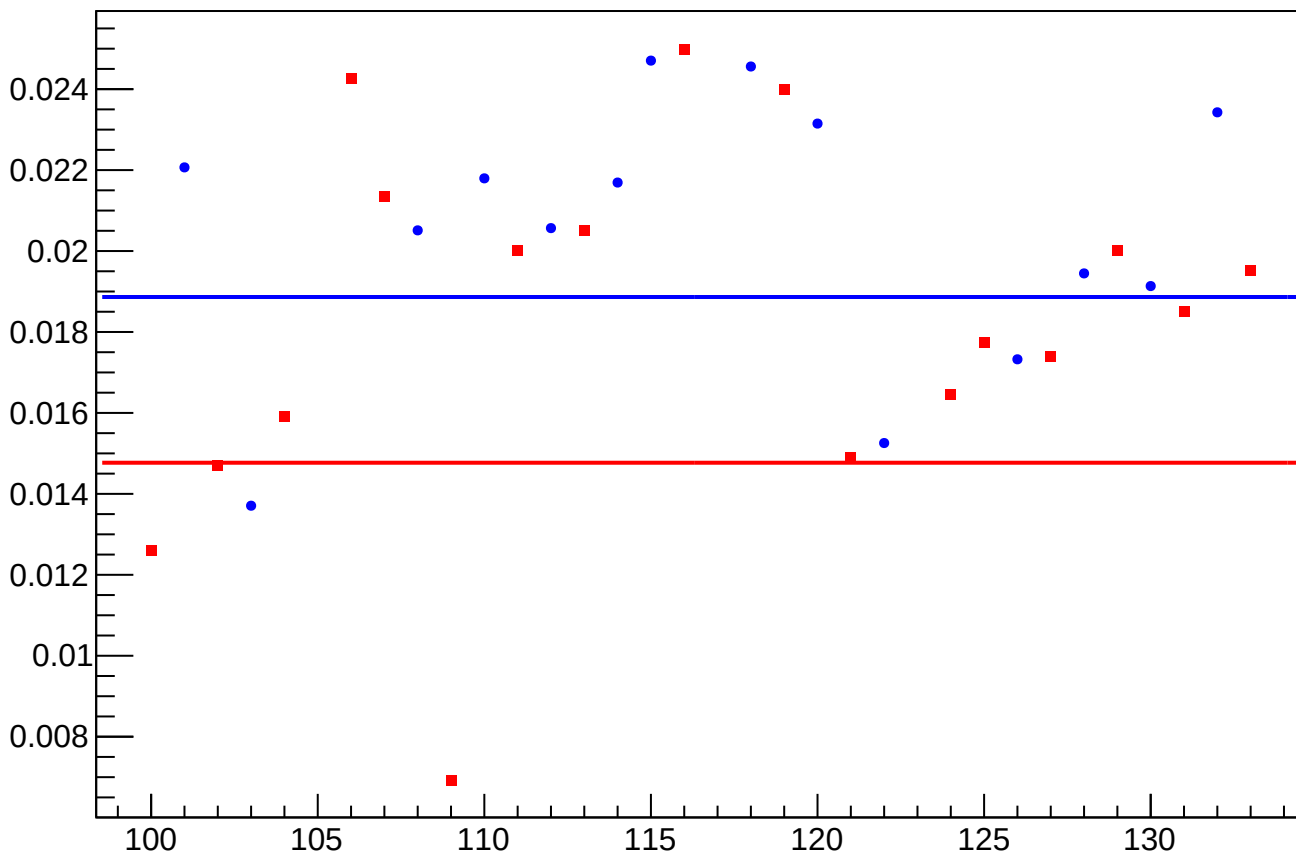
Right Out: -0.048+/-0.000  $\chi^2/\text{NDF}$ : 15129031994.8/16

All: -0.154+/-0.000  $\chi^2/\text{NDF}$ : 21313117496.0

- 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\_bpm11Y\_rms vs Slug



Right In: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 380882.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1548470.1/16

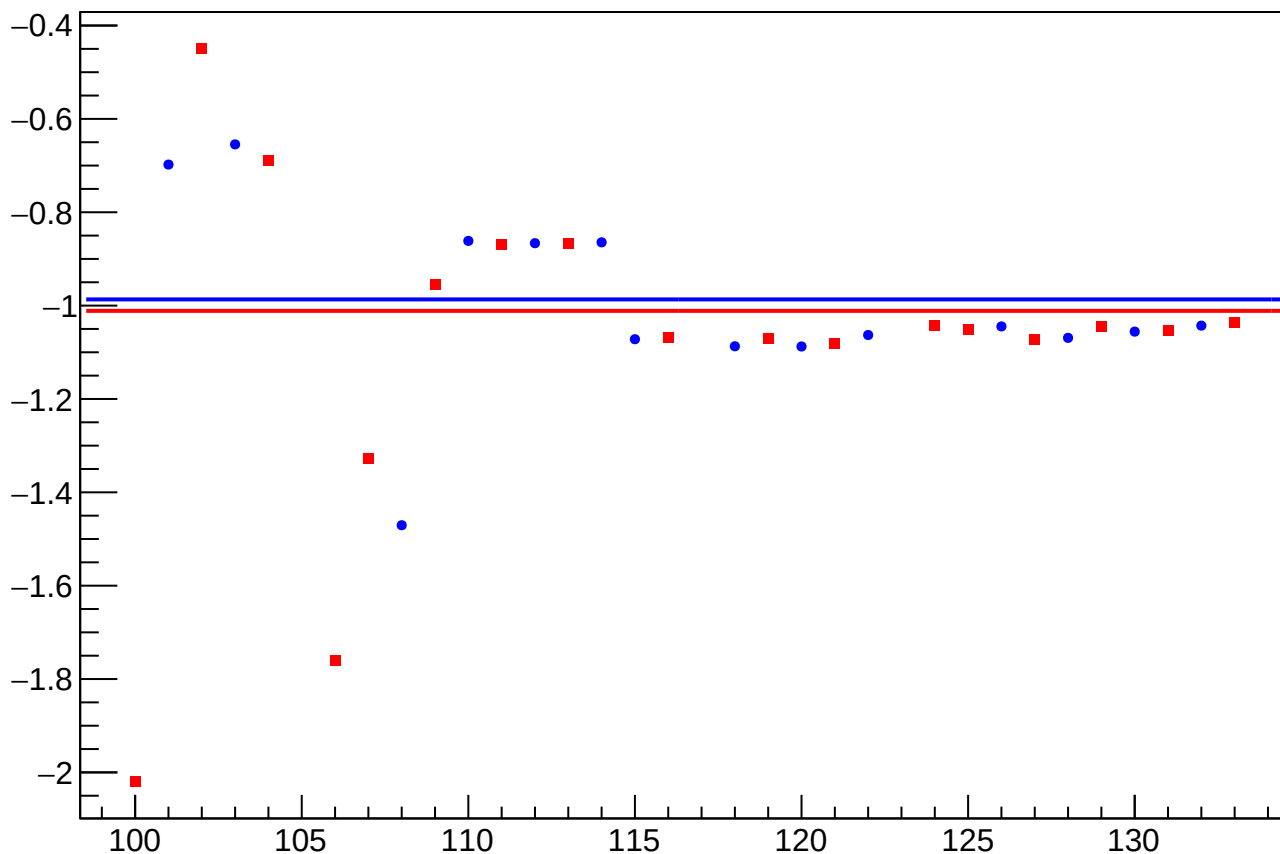
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 2237840.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12X\_mean vs Slug



Right In: -0.987+/-0.000  $\chi^2/\text{NDF}$ : 135987608.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.011+/-0.000  $\chi^2/\text{NDF}$ : 239615382.0/16

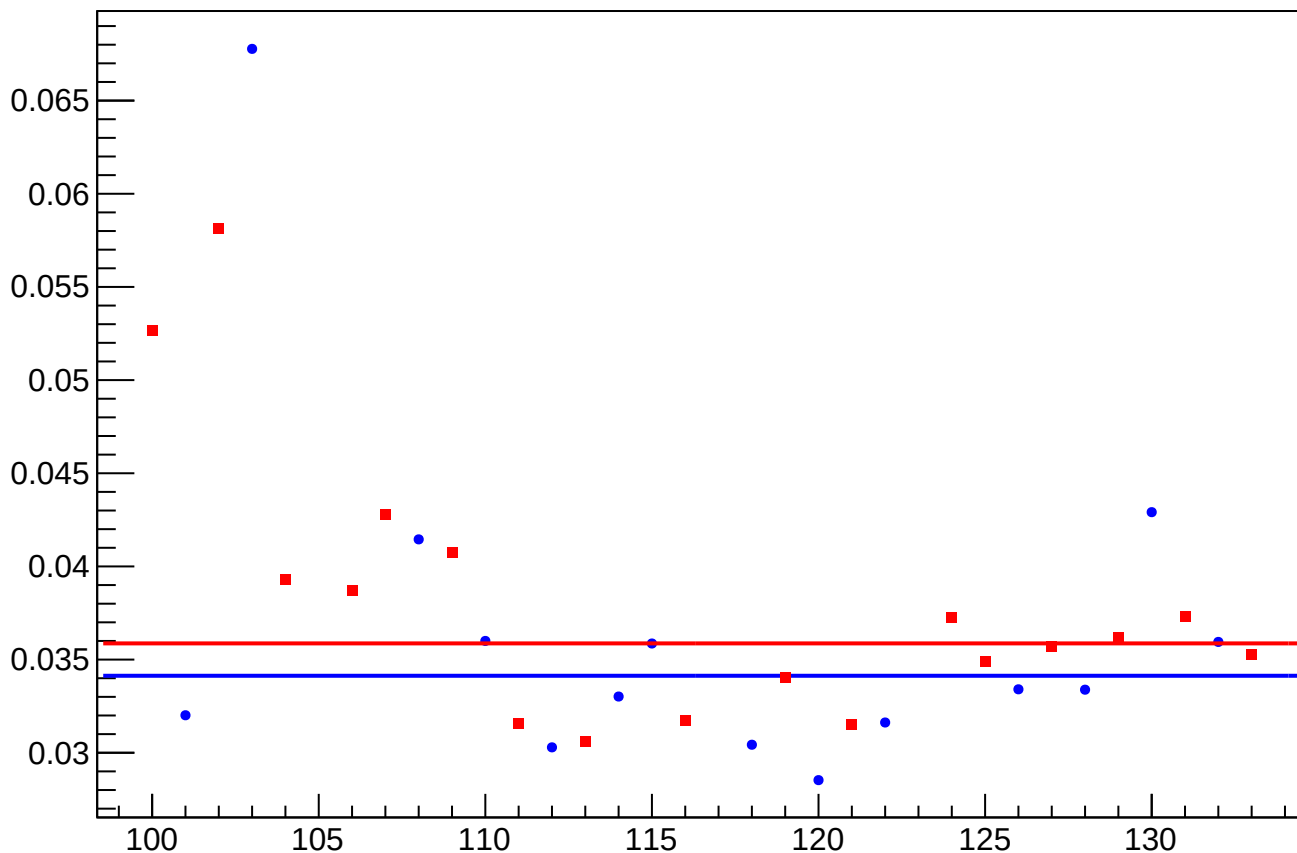
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.999+/-0.000  $\chi^2/\text{NDF}$ : 376948029.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12X\_rms vs Slug



Right In: 0.034+/-0.000  $\chi^2/\text{NDF}$ : 402410.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.036+/-0.000  $\chi^2/\text{NDF}$ : 275497.6/16

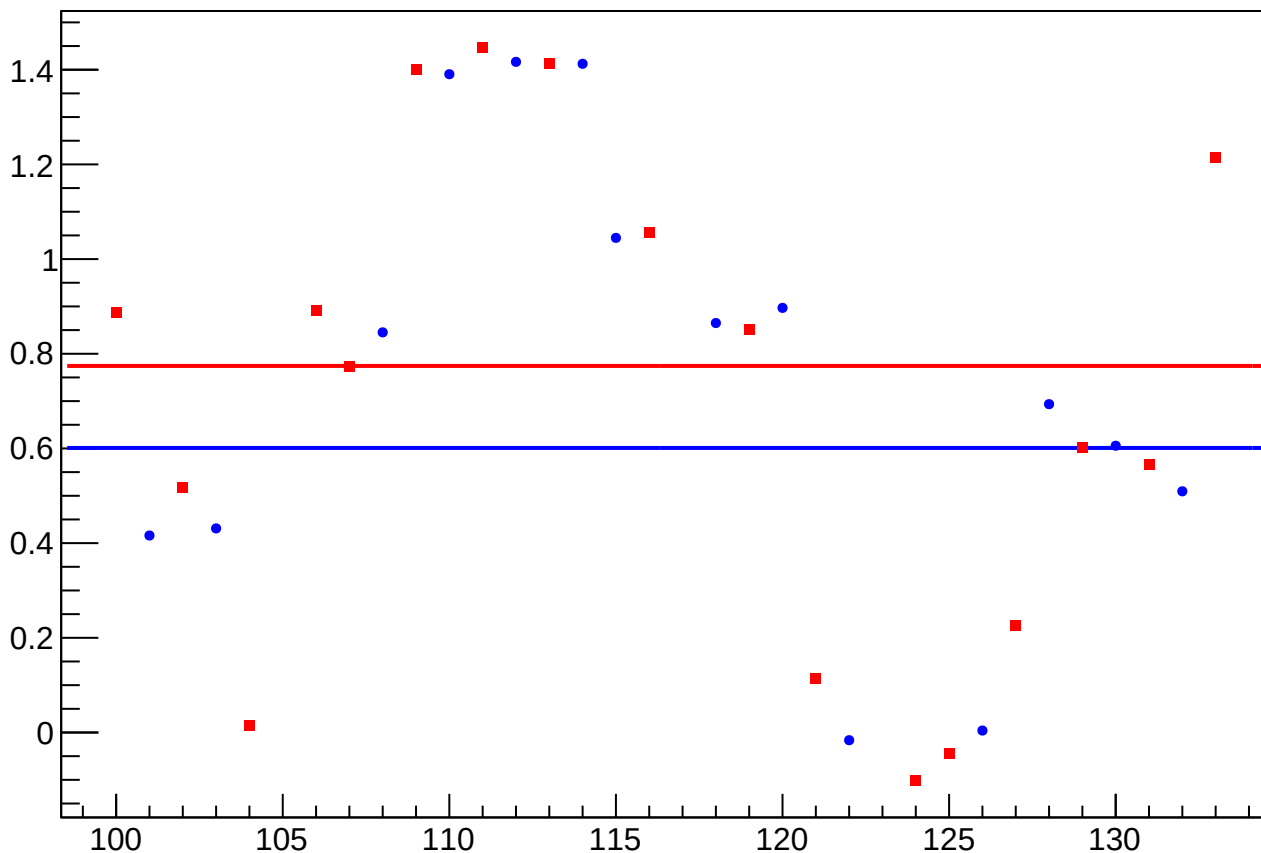
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.035+/-0.000  $\chi^2/\text{NDF}$ : 691411.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12Y\_mean vs Slug



Right In: 0.601+/-0.000  $\chi^2/\text{NDF}$ : 6306881452.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.774+/-0.000  $\chi^2/\text{NDF}$ : 14442424036.7/16

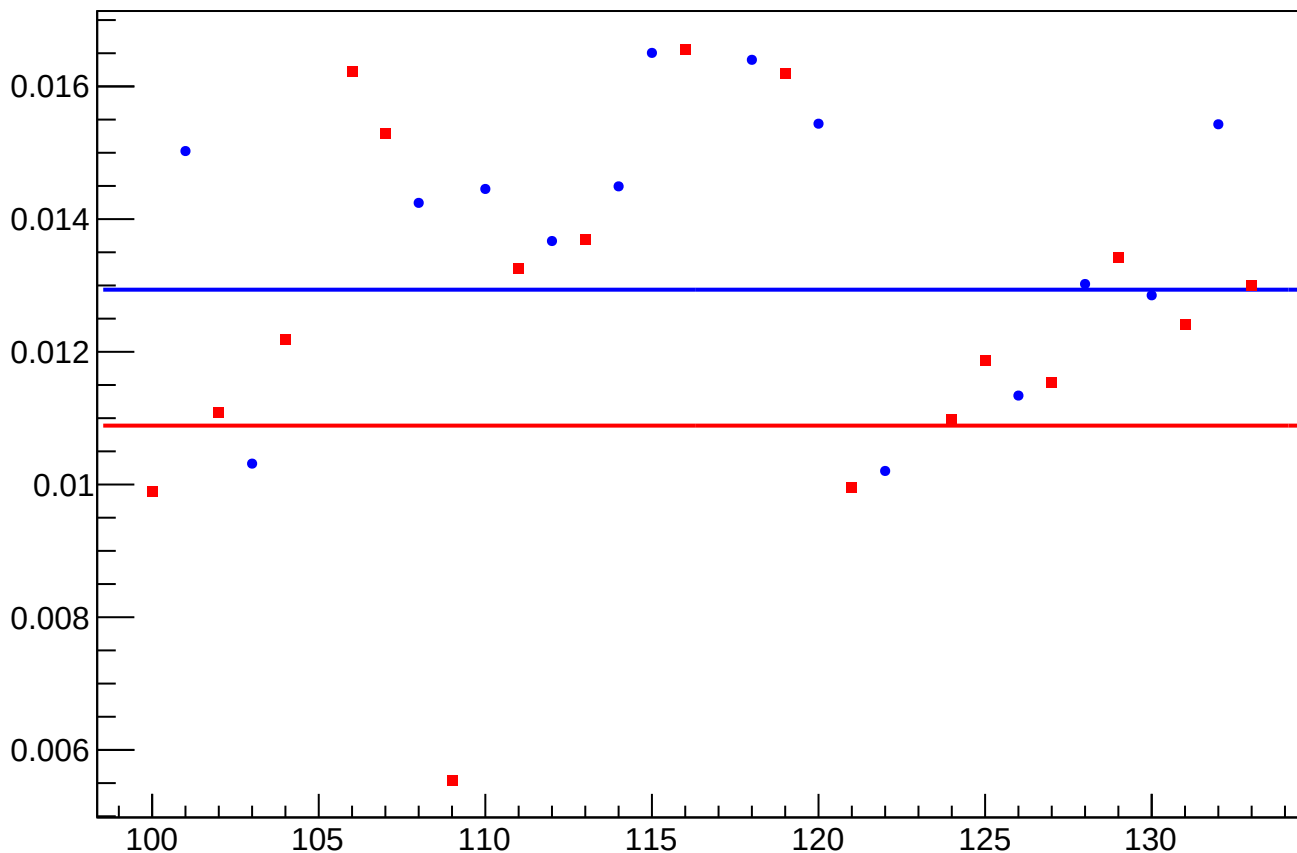
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.704+/-0.000  $\chi^2/\text{NDF}$ : 21318734637.8/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12Y\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 279713.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 1037779.9/16

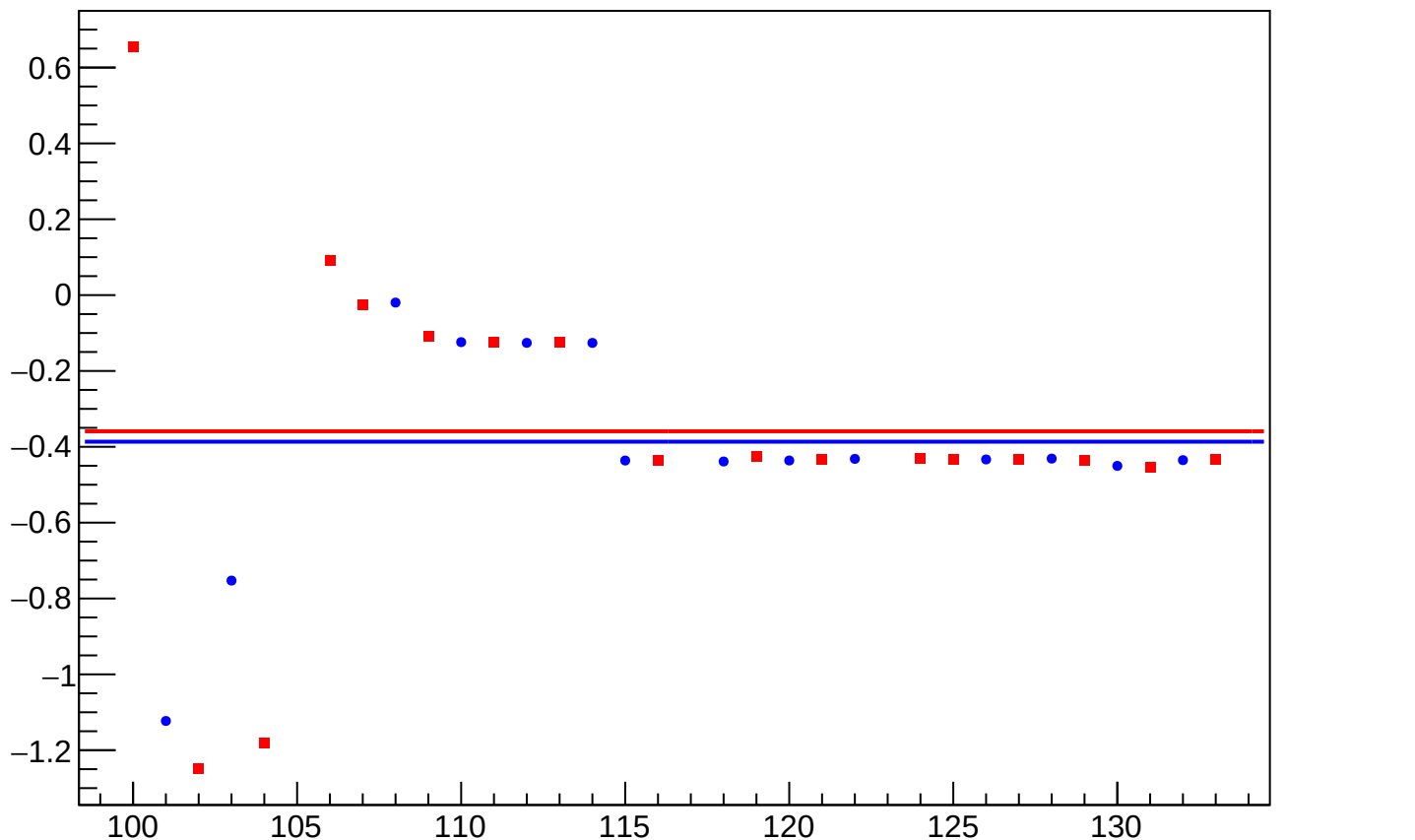
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 1476775.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16X\_mean vs Slug



Right In: -0.387+/-0.000  $\chi^2/\text{NDF}$ : 681102141.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.359+/-0.000  $\chi^2/\text{NDF}$ : 773039376.3/16

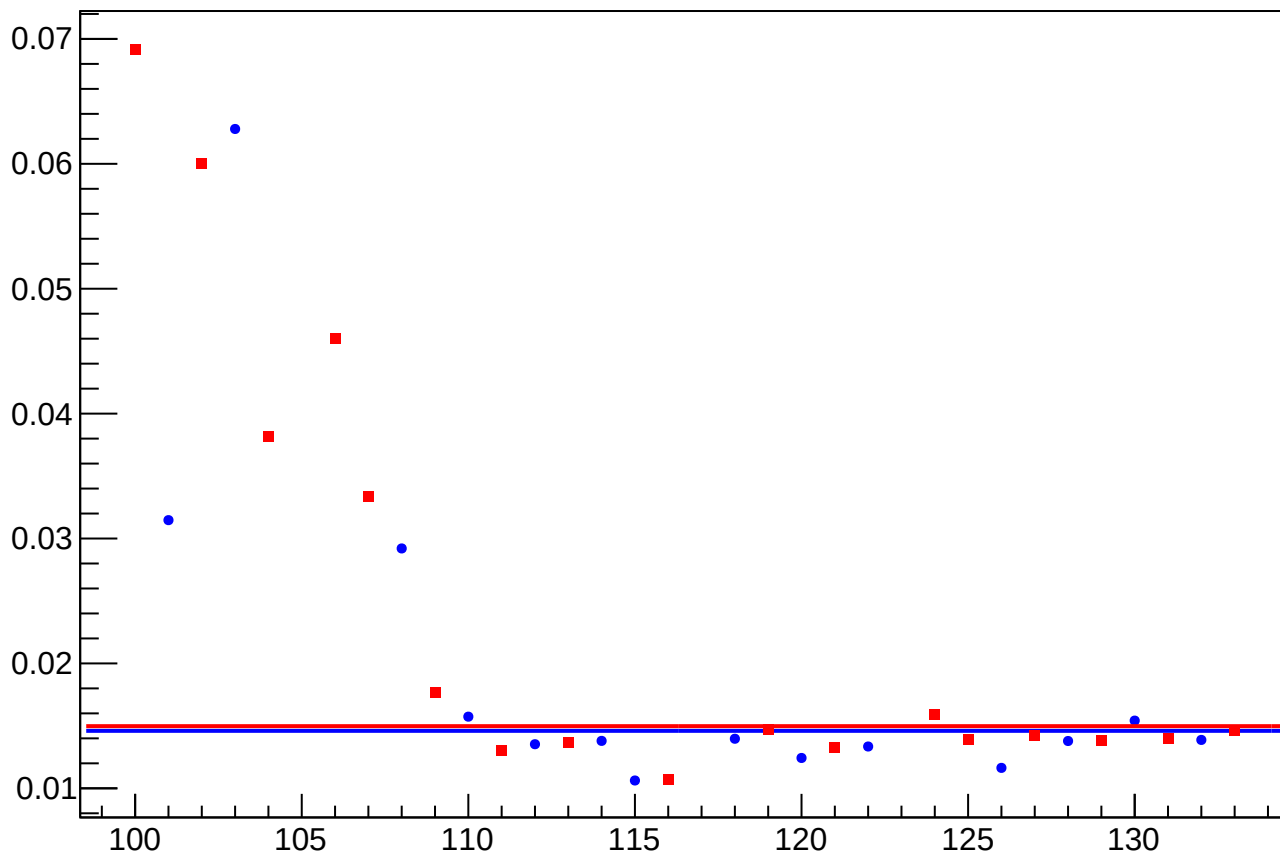
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.372+/-0.000  $\chi^2/\text{NDF}$ : 1461889066.2/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16X\_rms vs Slug



Right In: 0.015 $\pm$ 0.000  $\chi^2$ /NDF: 1217472.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.015 $\pm$ 0.000  $\chi^2$ /NDF: 1481274.4/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

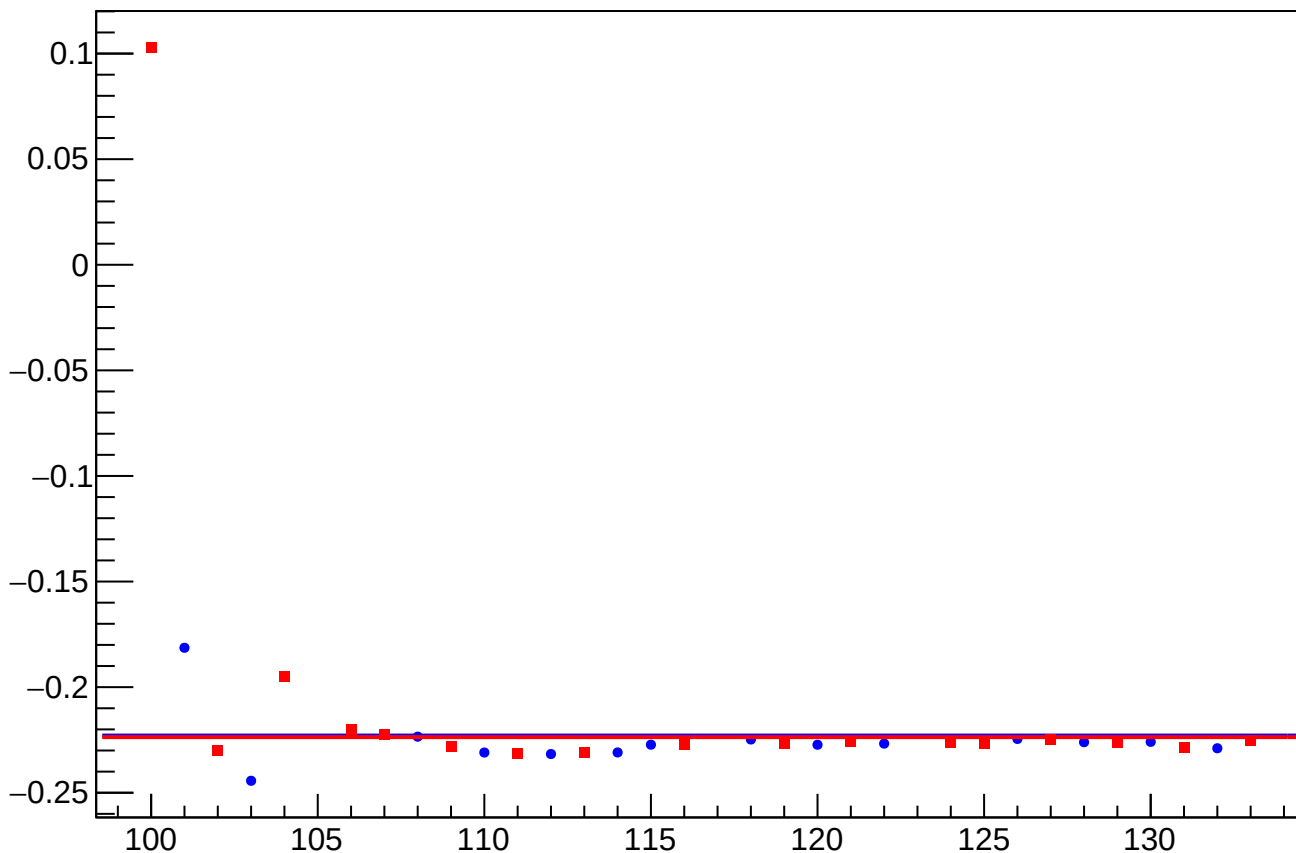
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.000  $\chi^2$ /NDF: 2701629.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bpm16Y\_mean vs Slug



Right In: -0.223+/-0.000  $\chi^2/\text{NDF}$ : 52085627.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.224+/-0.000  $\chi^2/\text{NDF}$ : 157928238.7/16

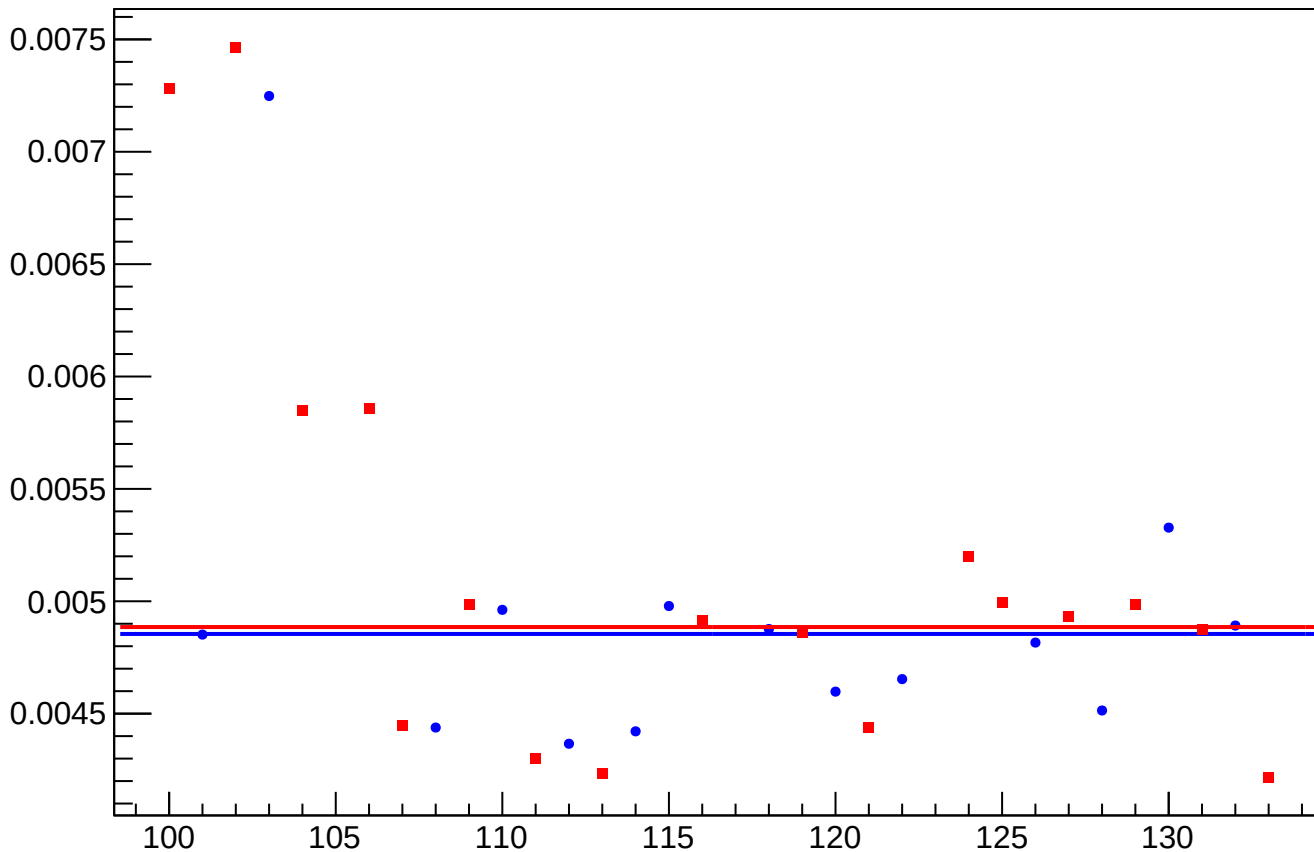
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.223+/-0.000  $\chi^2/\text{NDF}$ : 210077841.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 158747.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 269685.0/16

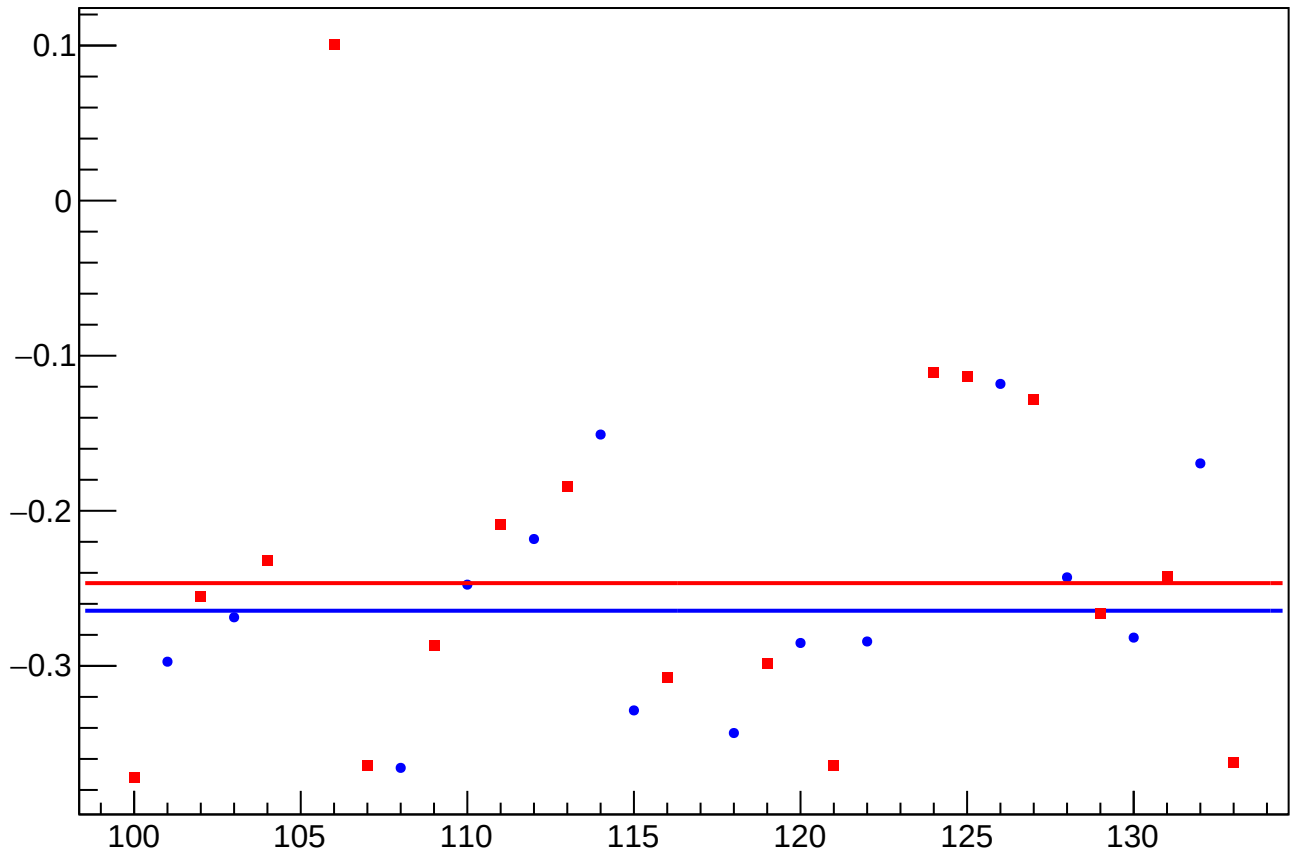
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 428657.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02X\_mean vs Slug



Right In: -0.264+/-0.000  $\chi^2/\text{NDF}$ : 553981180.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.247+/-0.000  $\chi^2/\text{NDF}$ : 1221174642.7/16

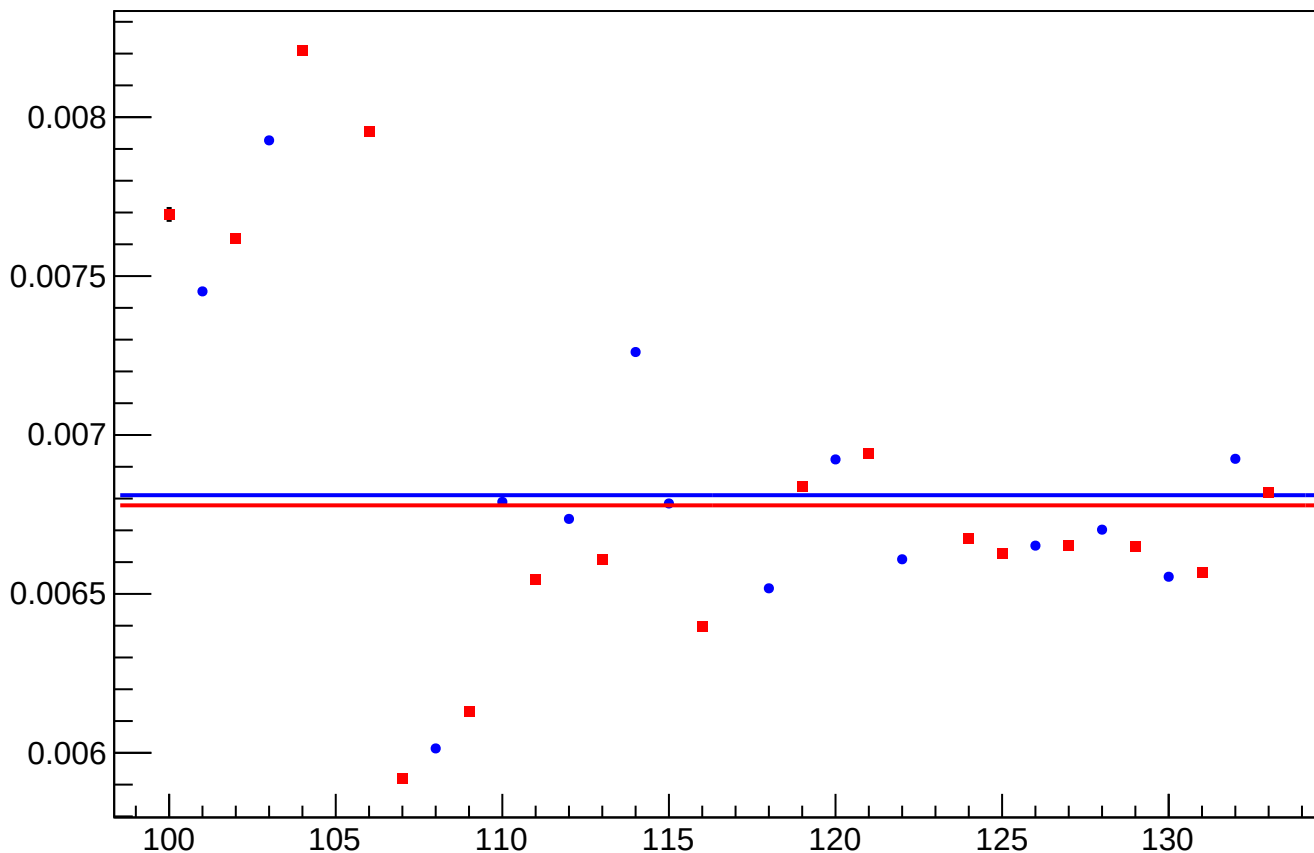
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.255+/-0.000  $\chi^2/\text{NDF}$ : 1796289081.3/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 53620.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 84916.8/16

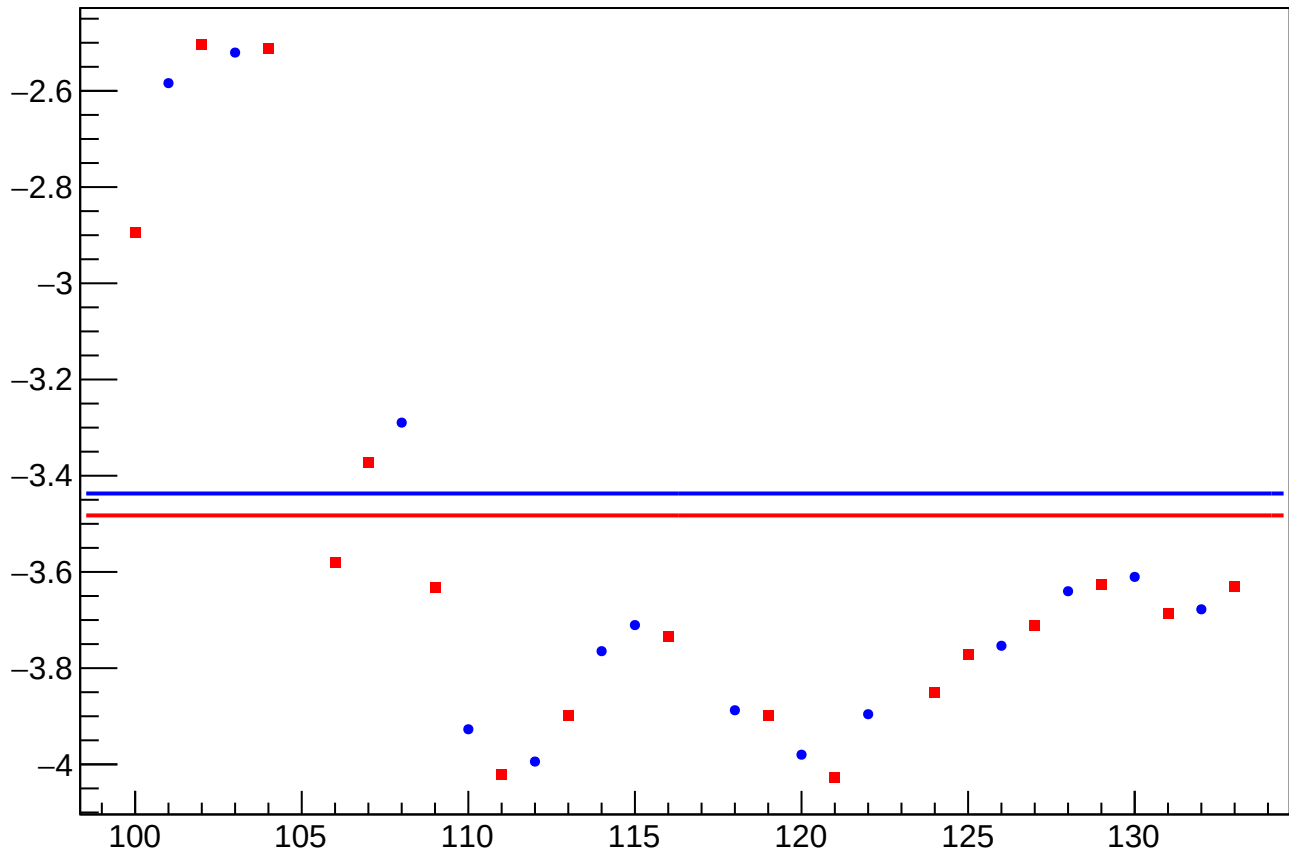
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 138673.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02Y\_mean vs Slug



Right In: -3.437+/-0.000  $\chi^2/\text{NDF}$ : 28660785245.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.483+/-0.000  $\chi^2/\text{NDF}$ : 28687248001.1/16

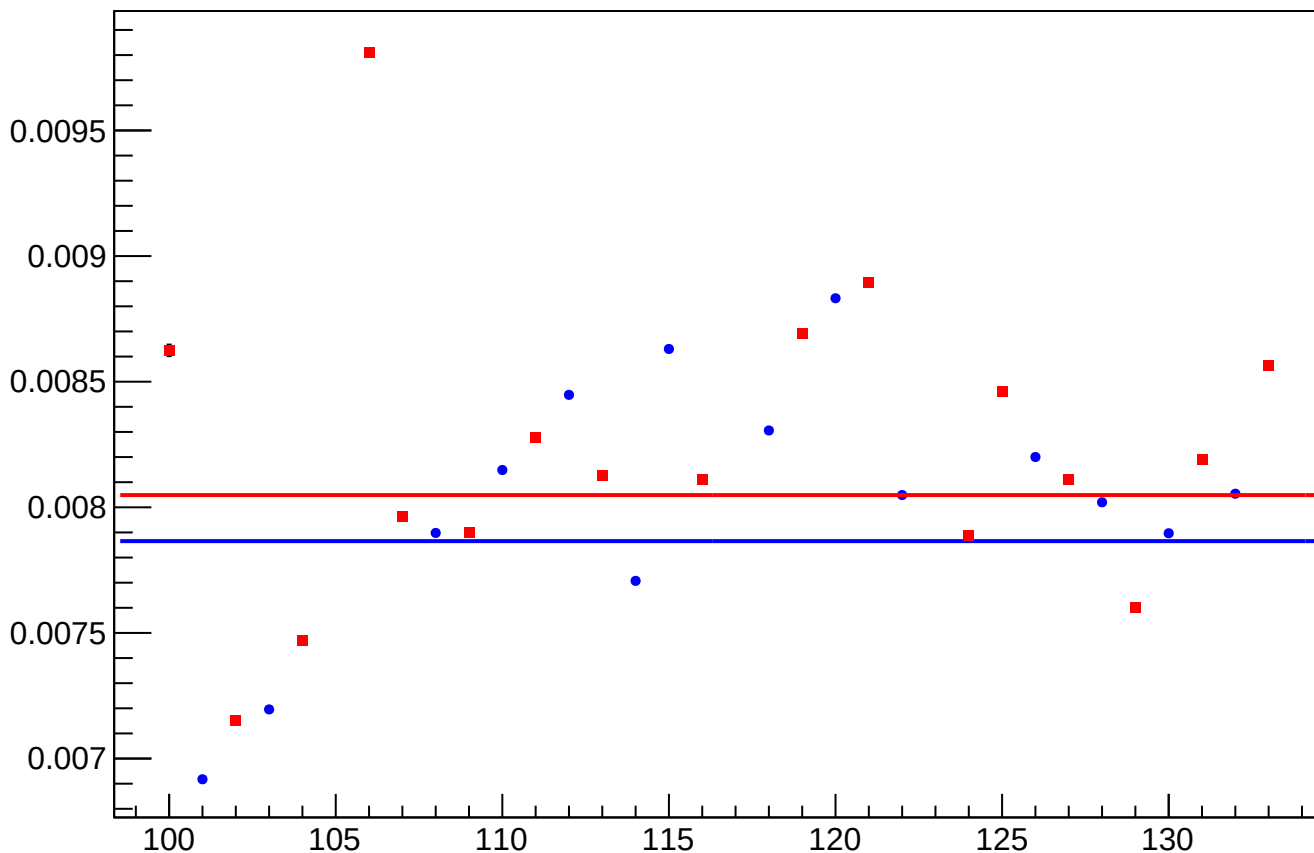
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.460+/-0.000  $\chi^2/\text{NDF}$ : 57447858990.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02Y\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 55467.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 60055.9/16

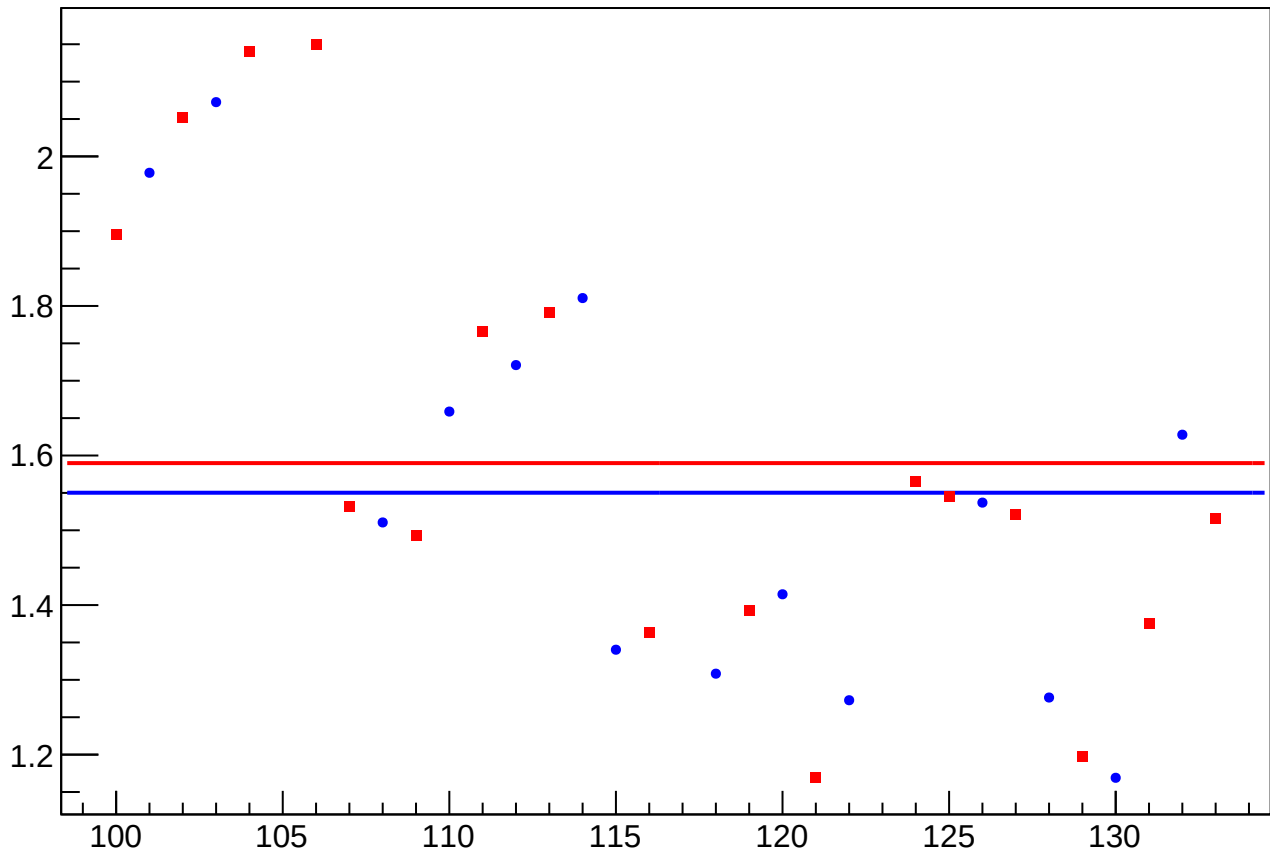
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 118748.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02aX\_mean vs Slug



Right In: 1.550+/-0.000  $\chi^2/\text{NDF}$ : 2999403734.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.590+/-0.000  $\chi^2/\text{NDF}$ : 3587576550.2/16

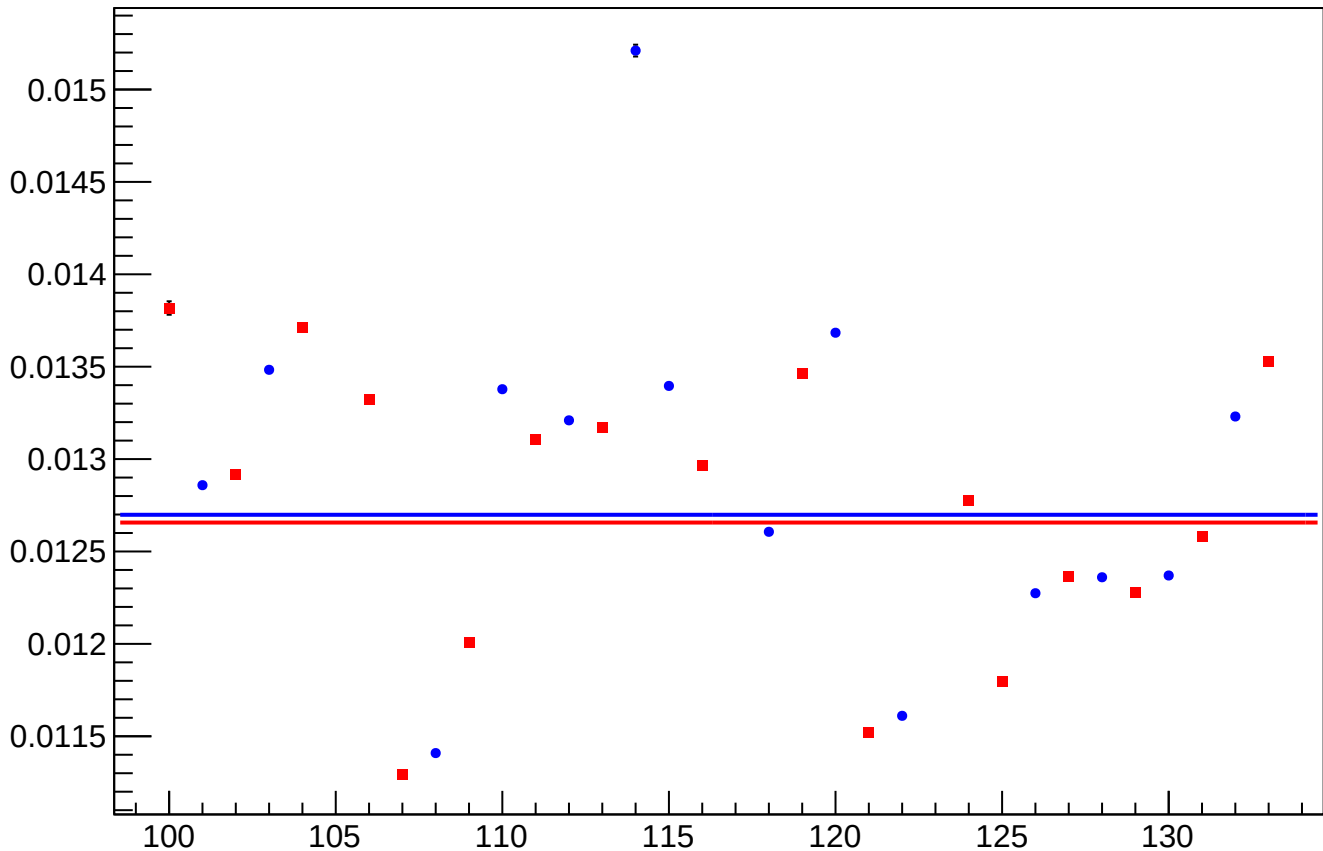
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.571+/-0.000  $\chi^2/\text{NDF}$ : 6616913465.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02aX\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 38667.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 42522.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

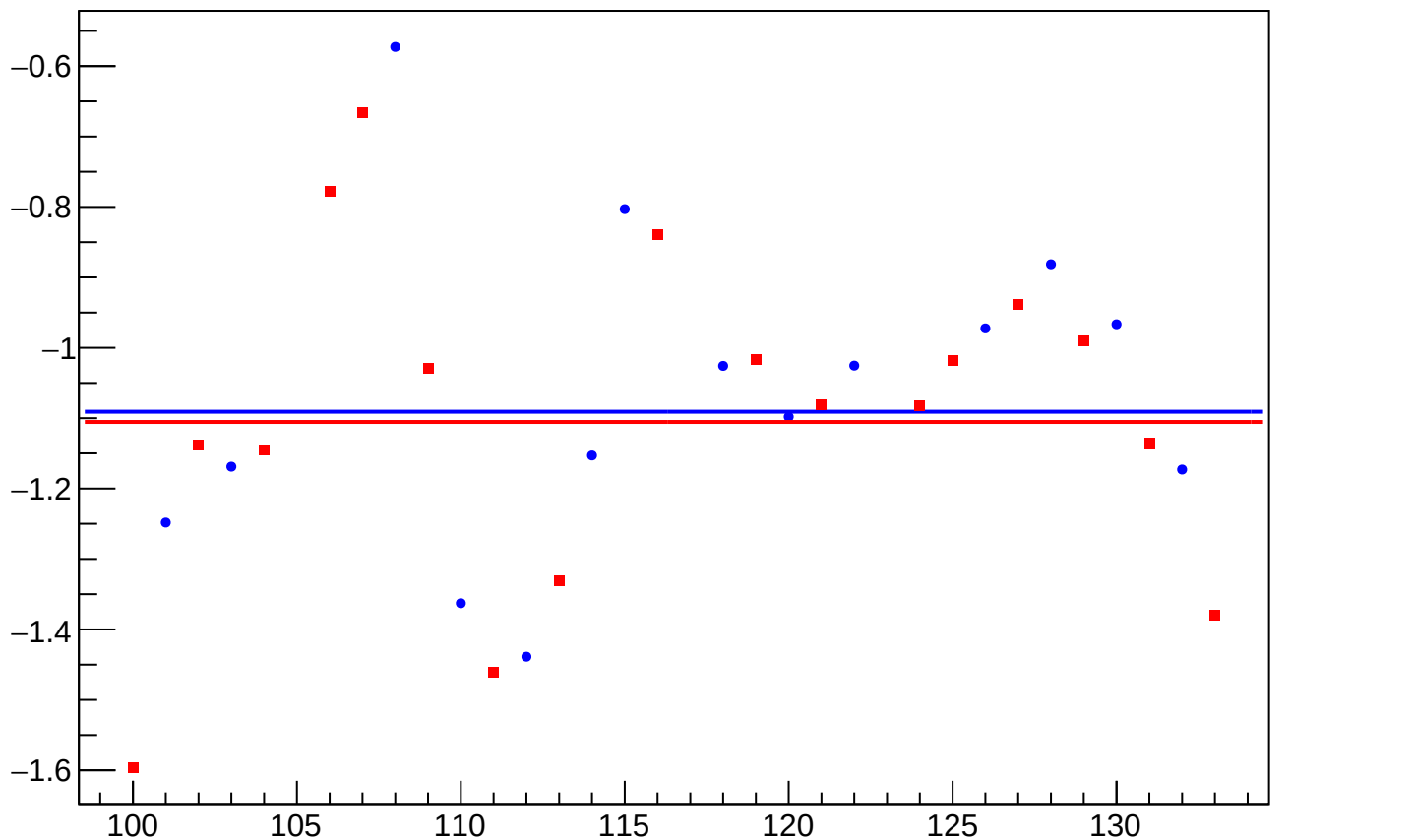
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 81257.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i02aY\_mean vs Slug



Right In:  $-1.091 \pm 0.000$   $\chi^2/\text{NDF}$ : 3008154612.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.105 \pm 0.000$   $\chi^2/\text{NDF}$ : 2519074070.1/16

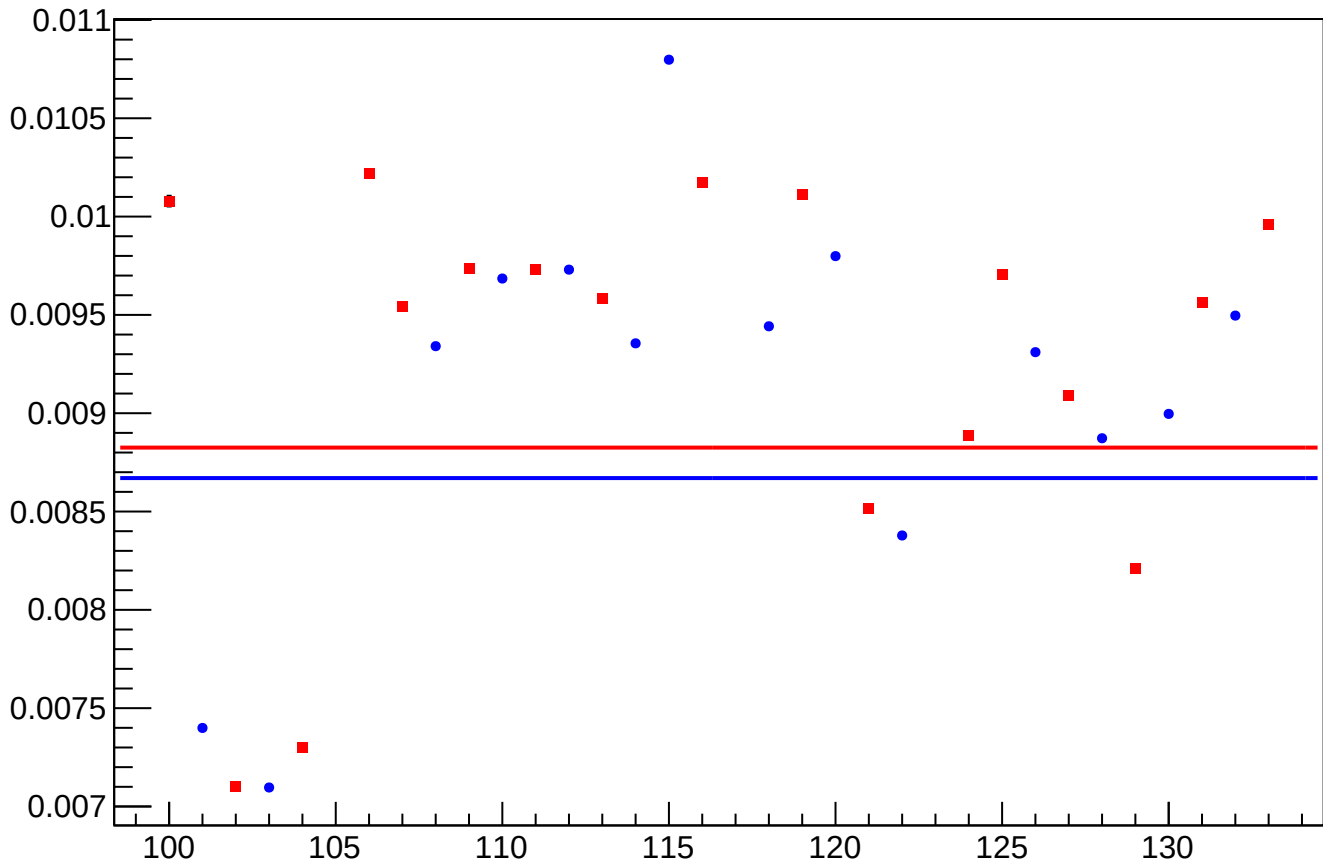
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.098 \pm 0.000$   $\chi^2/\text{NDF}$ : 5535474342.3/3

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02aY\_rms vs Slug



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 156805.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 203426.4/16

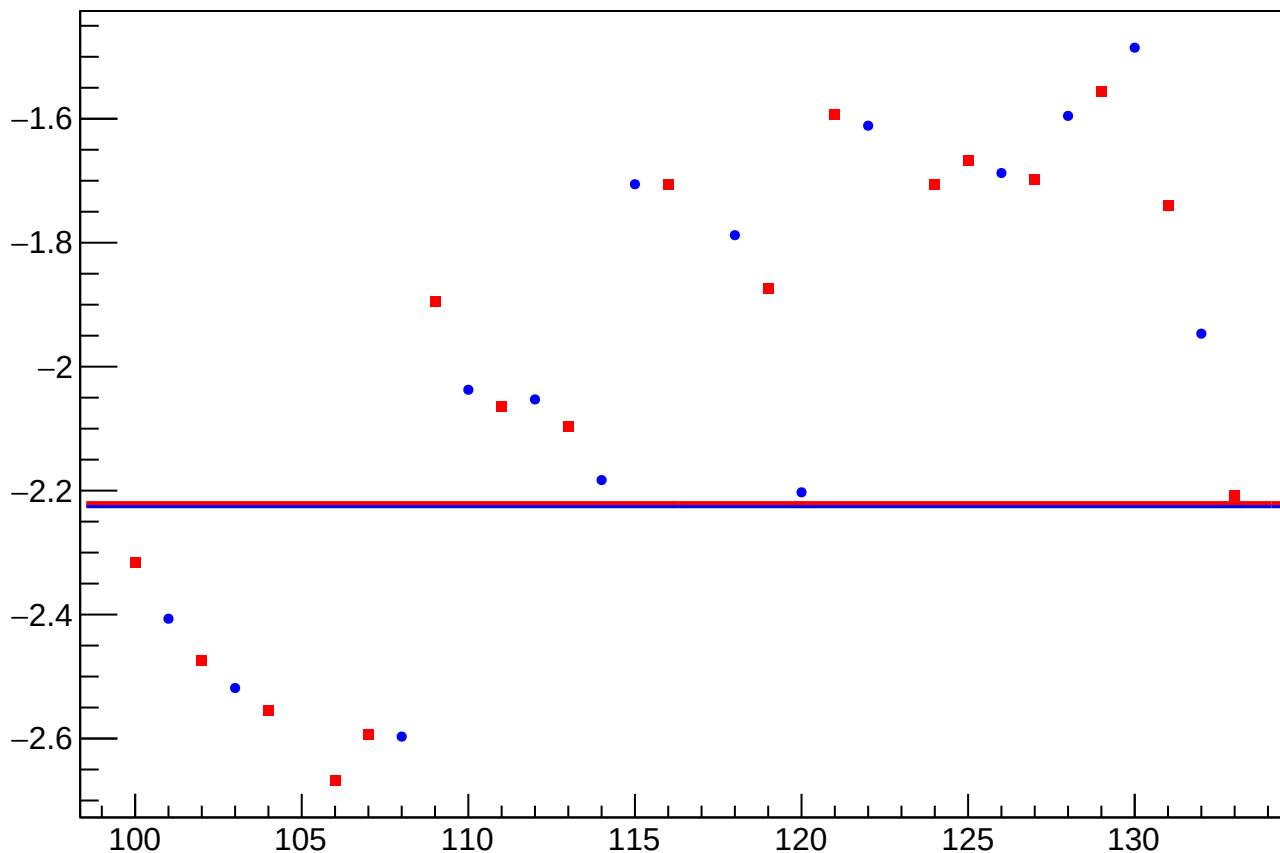
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 362096.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05X\_mean vs Slug



Right In: -2.225+/-0.000  $\chi^2/\text{NDF}$ : 11441859936.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -2.220+/-0.000  $\chi^2/\text{NDF}$ : 12395673012.1/16

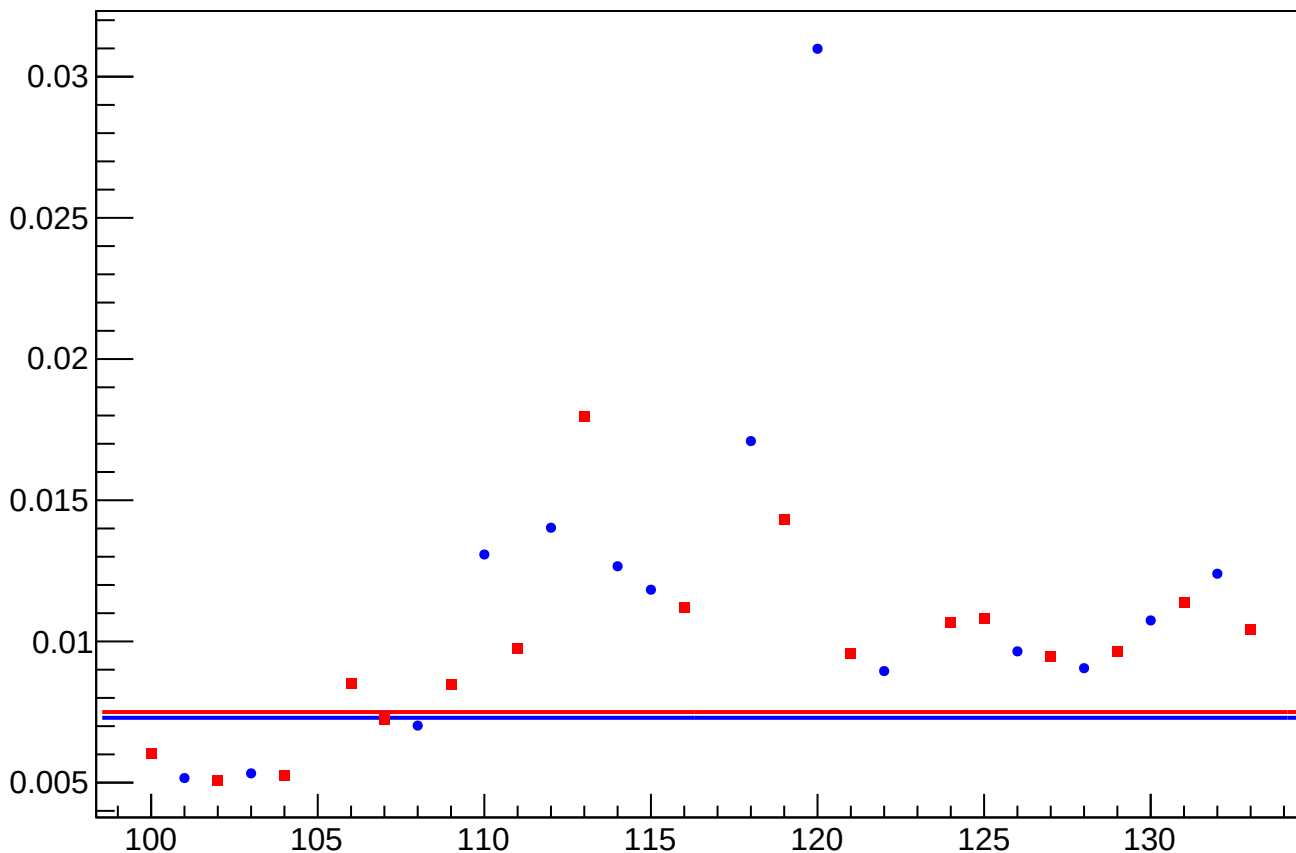
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.222+/-0.000  $\chi^2/\text{NDF}$ : 23838616825.7/

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1538143.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1270038.2/16

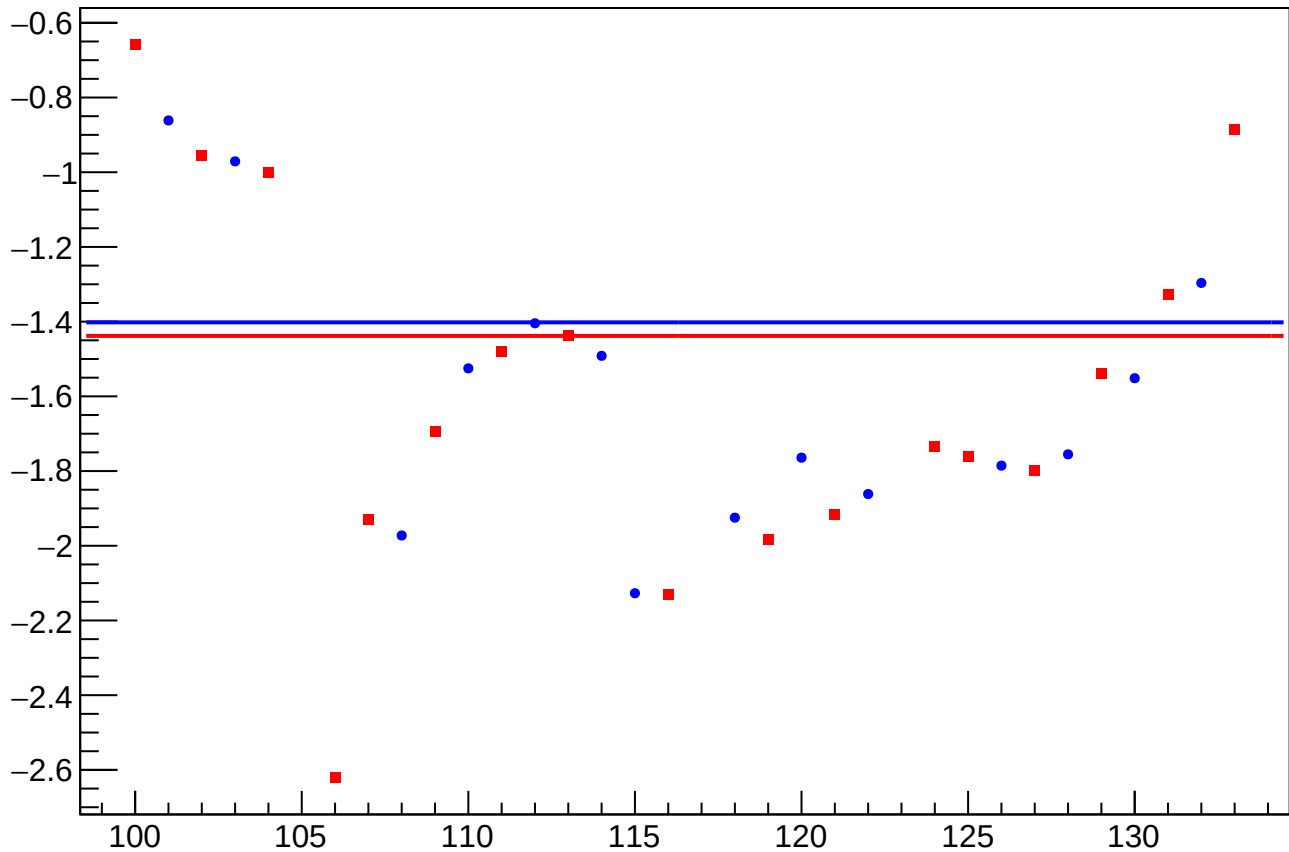
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 2811620.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05Y\_mean vs Slug



Right In: -1.402+/-0.000  $\chi^2/\text{NDF}$ : 19832328418.9/13

+ 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

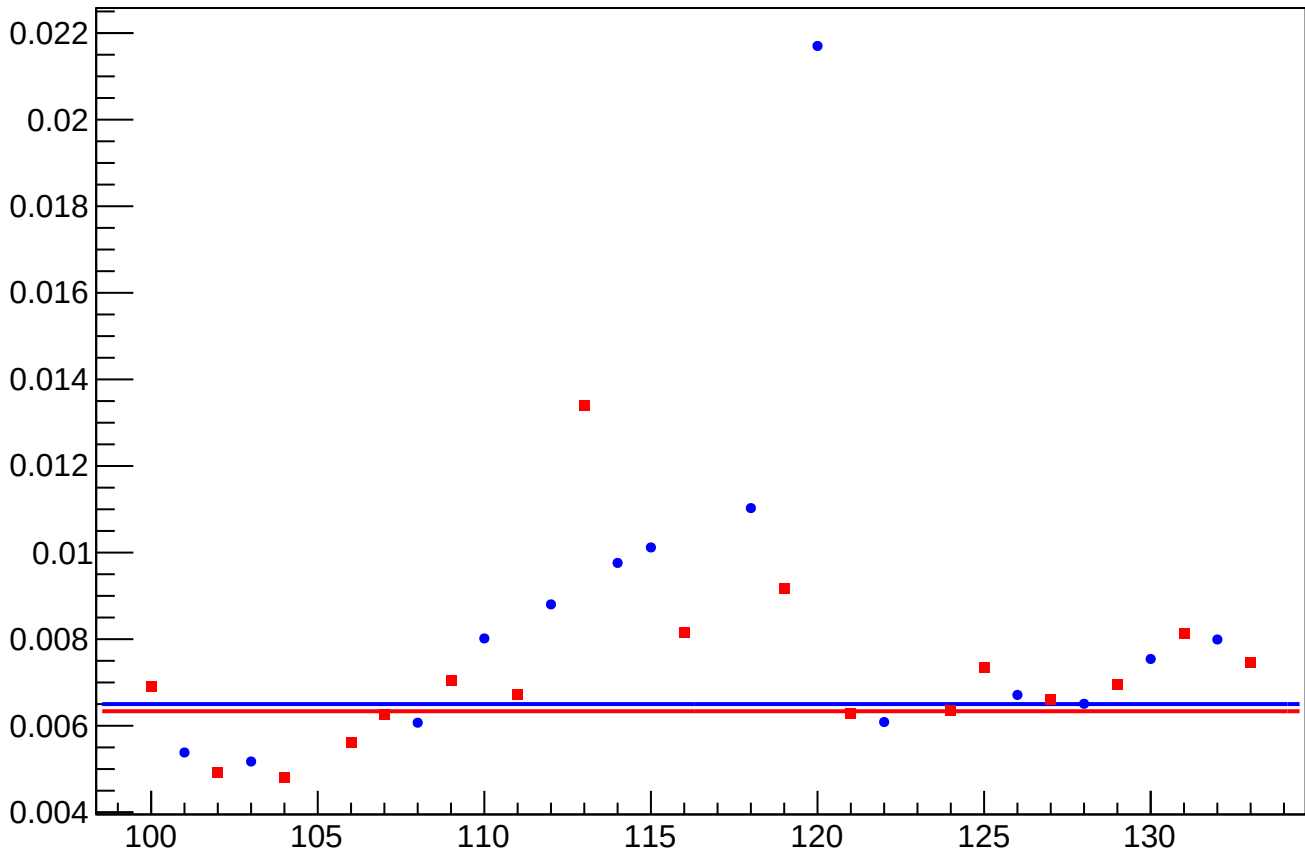
Right Out: -1.438+/-0.000  $\chi^2/\text{NDF}$ : 28457056741.8/16

All: -1.422+/-0.000  $\chi^2/\text{NDF}$ : 48369949066.2/31

- 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\_bpm0i05Y\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 647881.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 528074.8/16

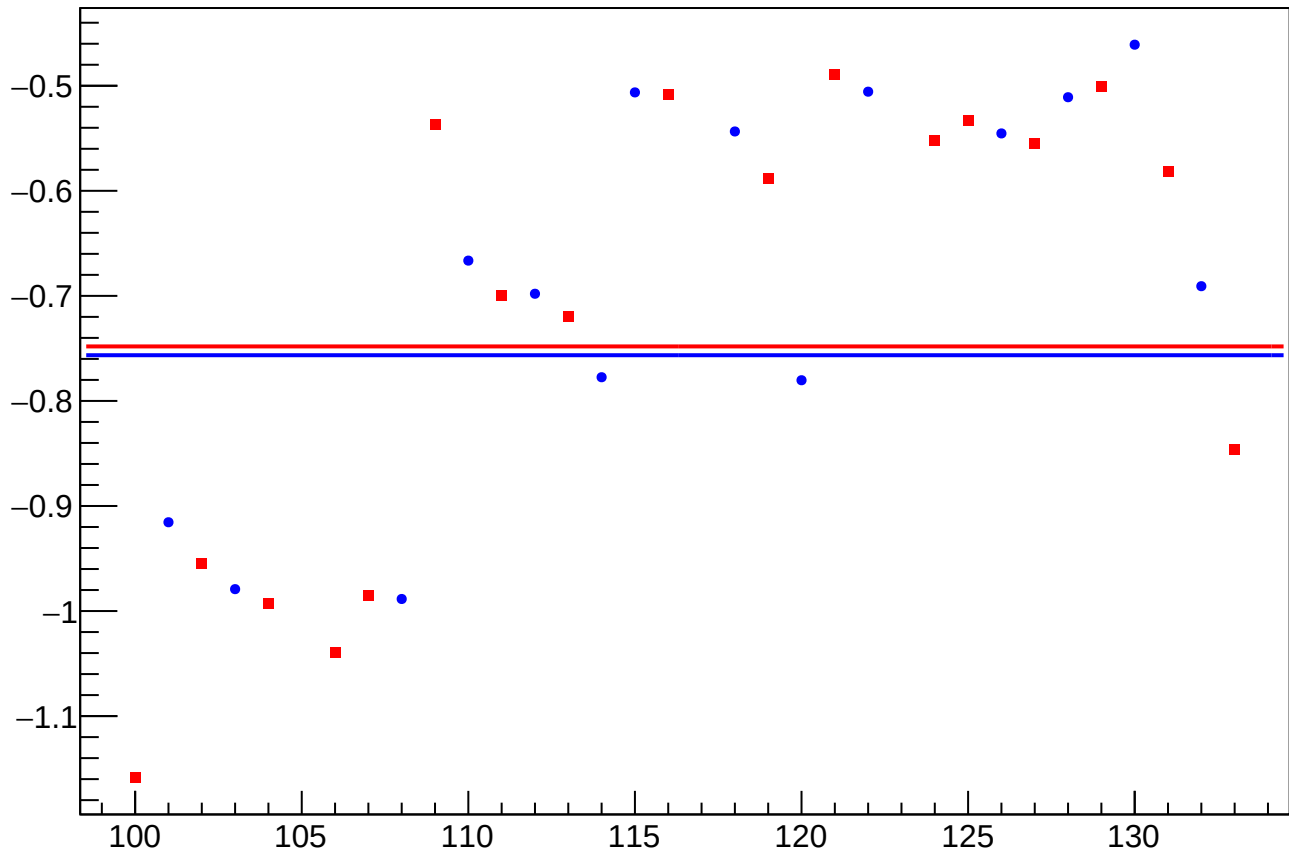
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1179312.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i07X\_mean vs Slug



Right In: -0.756+/-0.000  $\chi^2/\text{NDF}$ : 7097843049.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.748+/-0.000  $\chi^2/\text{NDF}$ : 8435678085.0/16

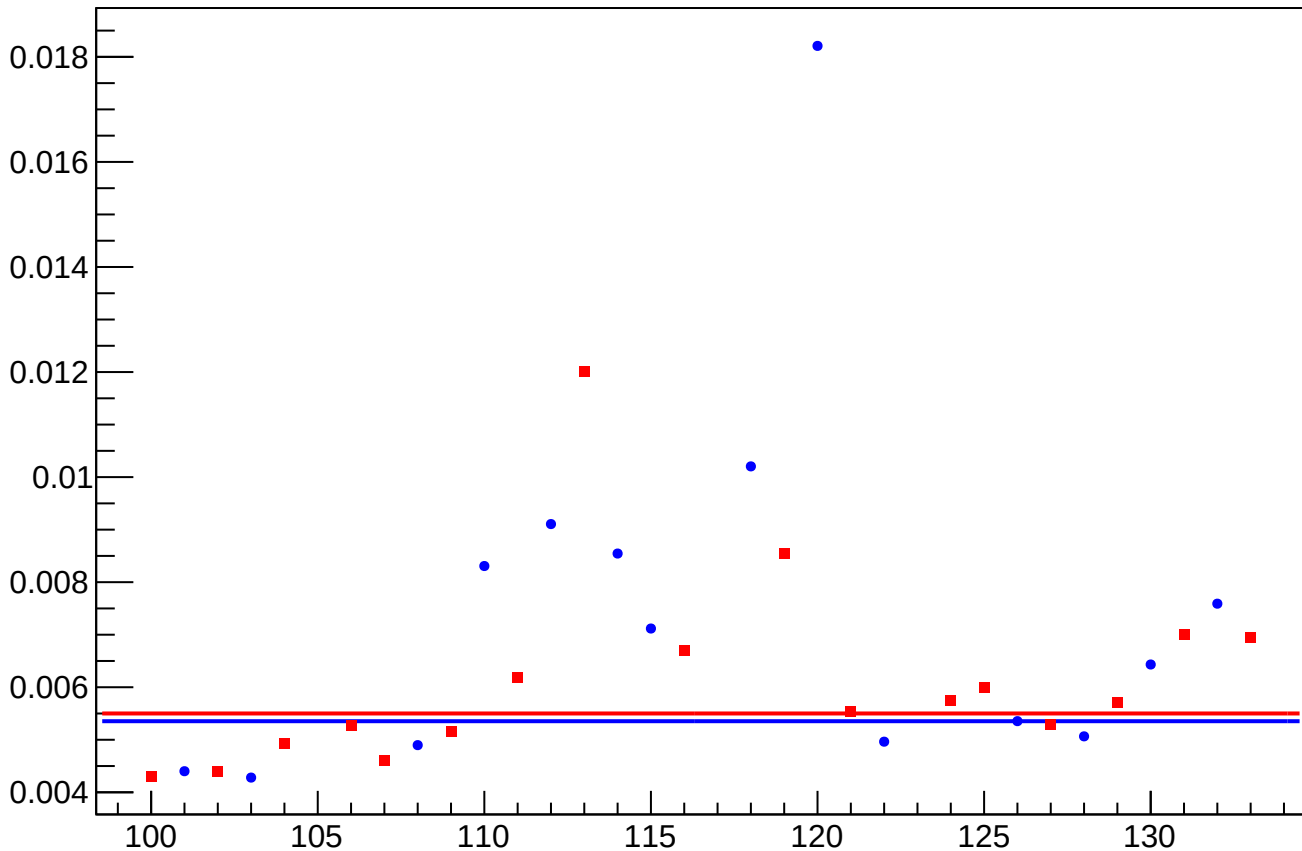
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.752+/-0.000  $\chi^2/\text{NDF}$ : 15539386064.0/16

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i07X\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 882433.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 493032.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

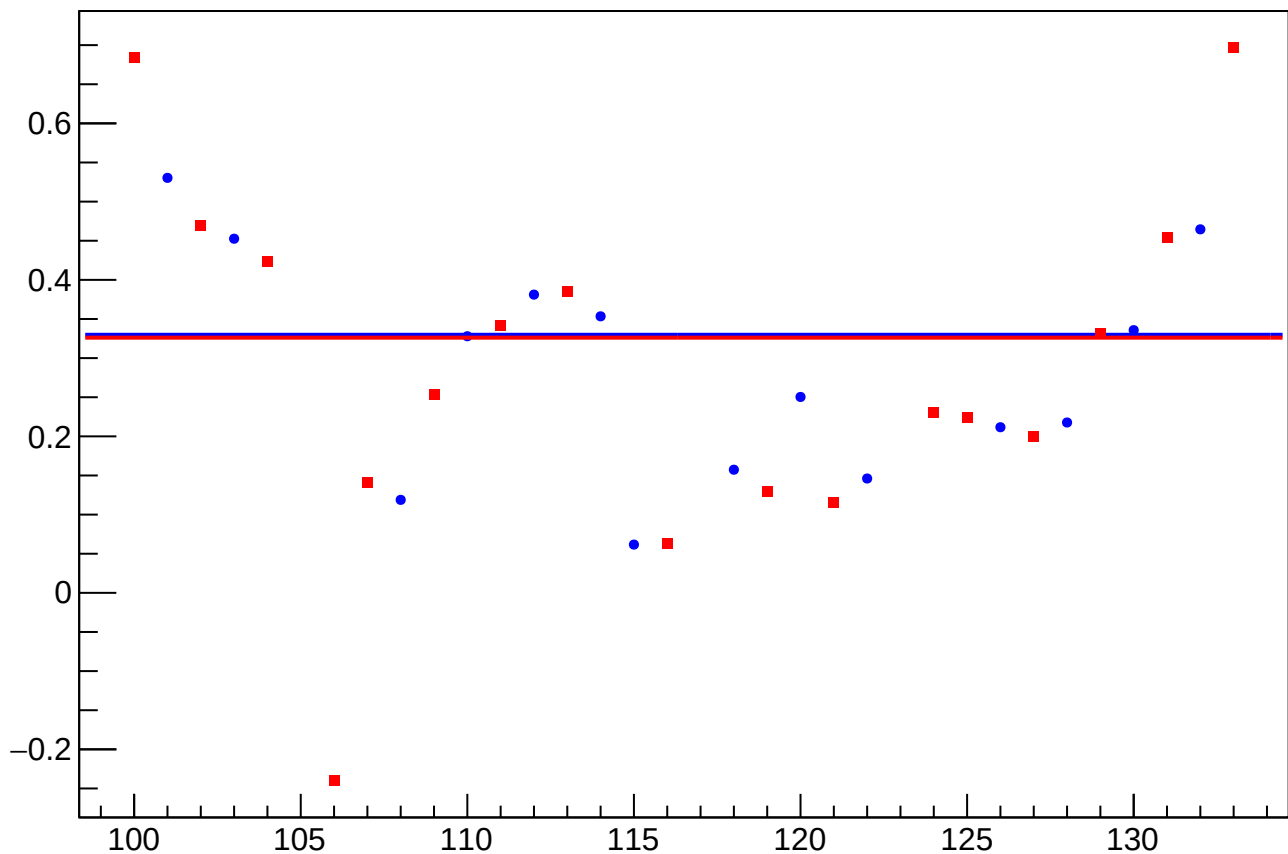
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1379090.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i07Y\_mean vs Slug



Right In: 0.330 $\pm$ 0.000  $\chi^2$ /NDF: 6188158427.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.326 $\pm$ 0.000  $\chi^2$ /NDF: 11459201318.5/16

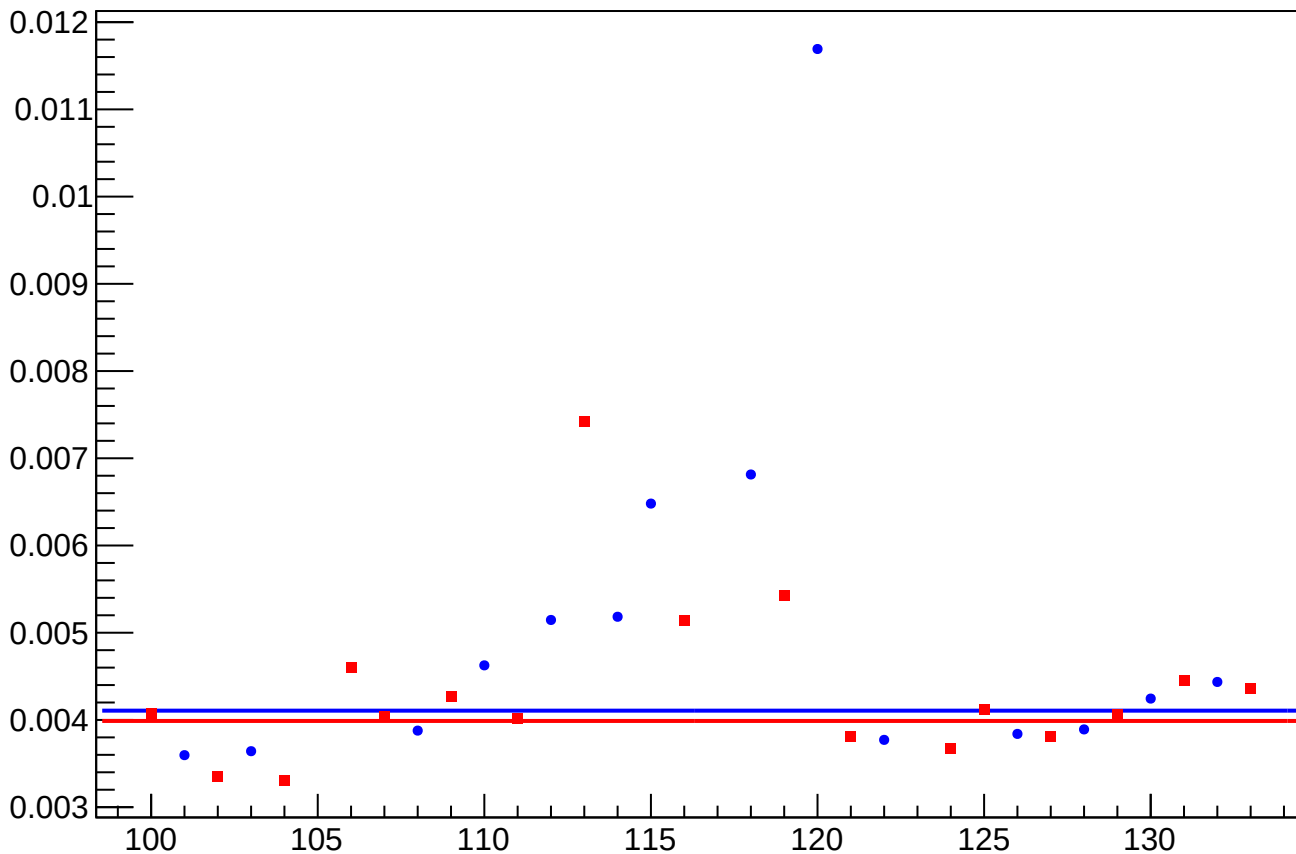
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.328 $\pm$ 0.000  $\chi^2$ /NDF: 17649573604.3/3

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i07Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 473534.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 310984.4/16

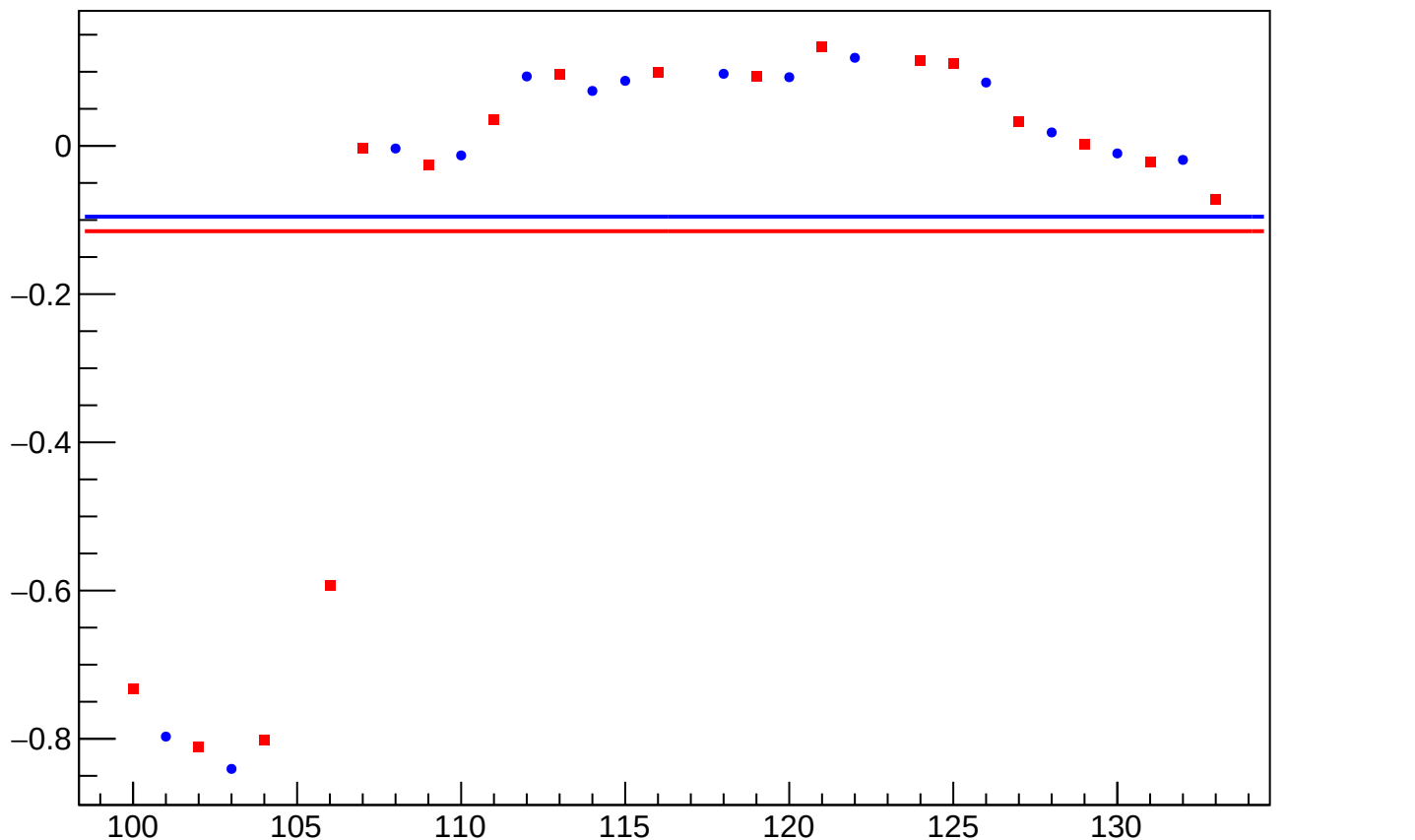
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 789019.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02X\_mean vs Slug



Right In: -0.096+/-0.000  $\chi^2/\text{NDF}$ : 5487380475.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.115+/-0.000  $\chi^2/\text{NDF}$ : 6182040275.6/16

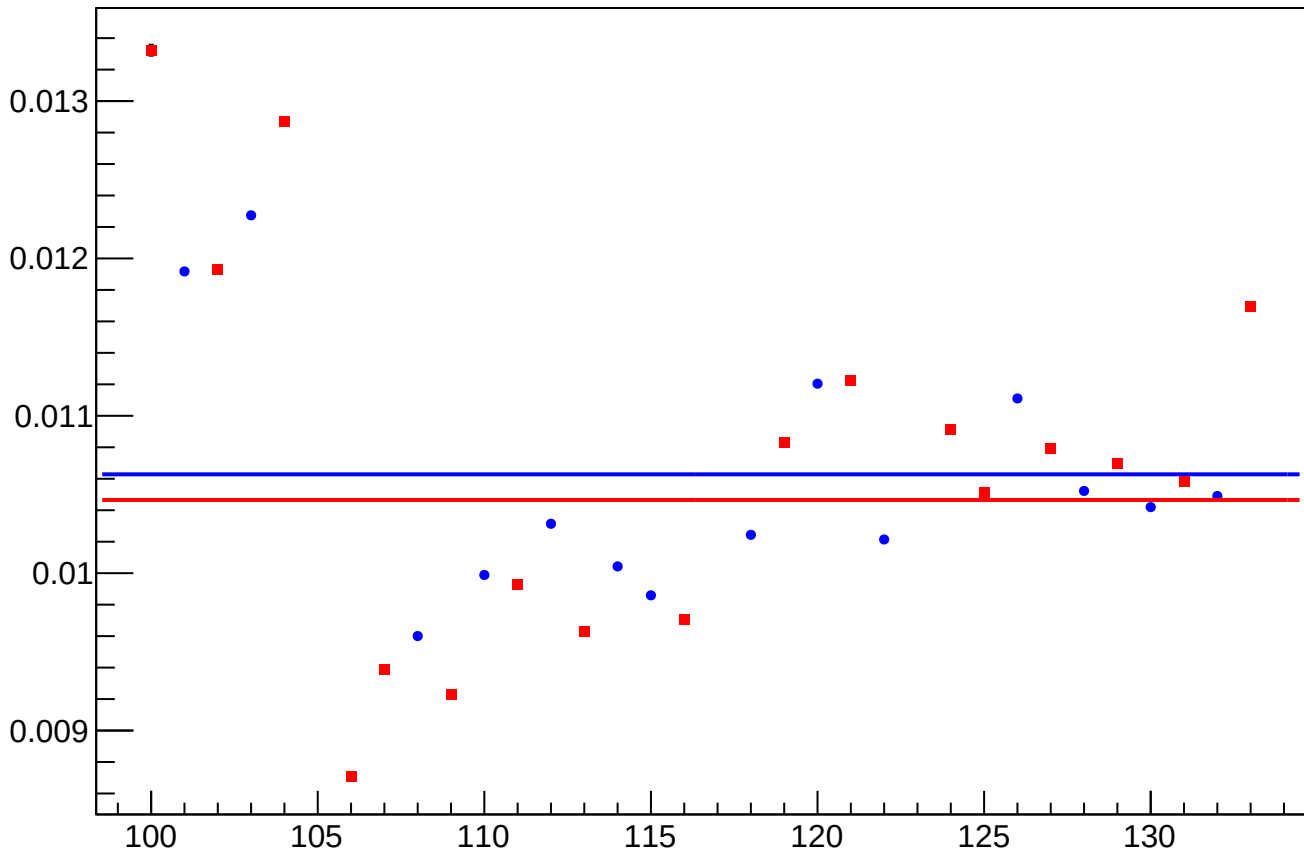
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.106+/-0.000  $\chi^2/\text{NDF}$ : 11680224686.2/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 59330.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 144245.6/16

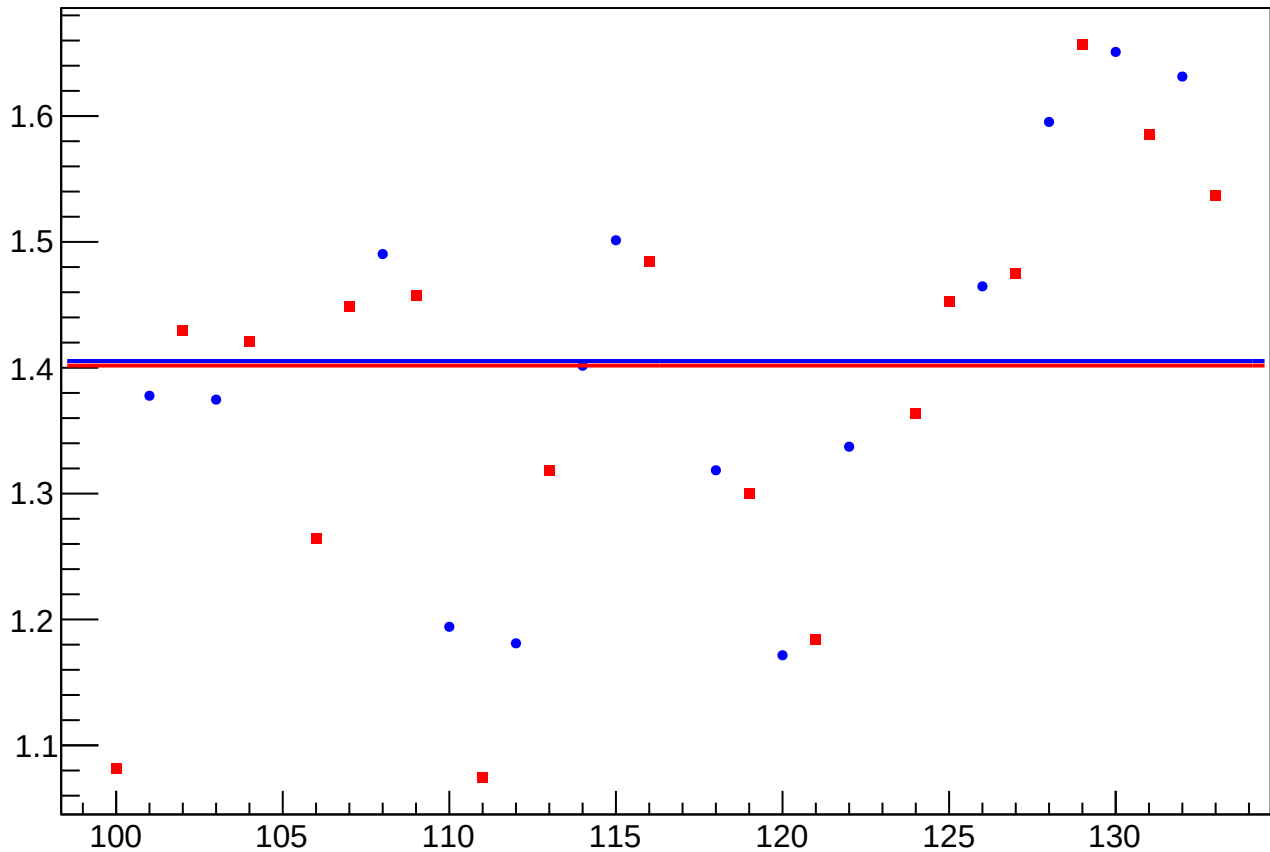
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 205068.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02Y\_mean vs Slug



Right In: 1.405+/-0.000  $\chi^2/\text{NDF}$ : 2396780364.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.402+/-0.000  $\chi^2/\text{NDF}$ : 2432440464.0/16

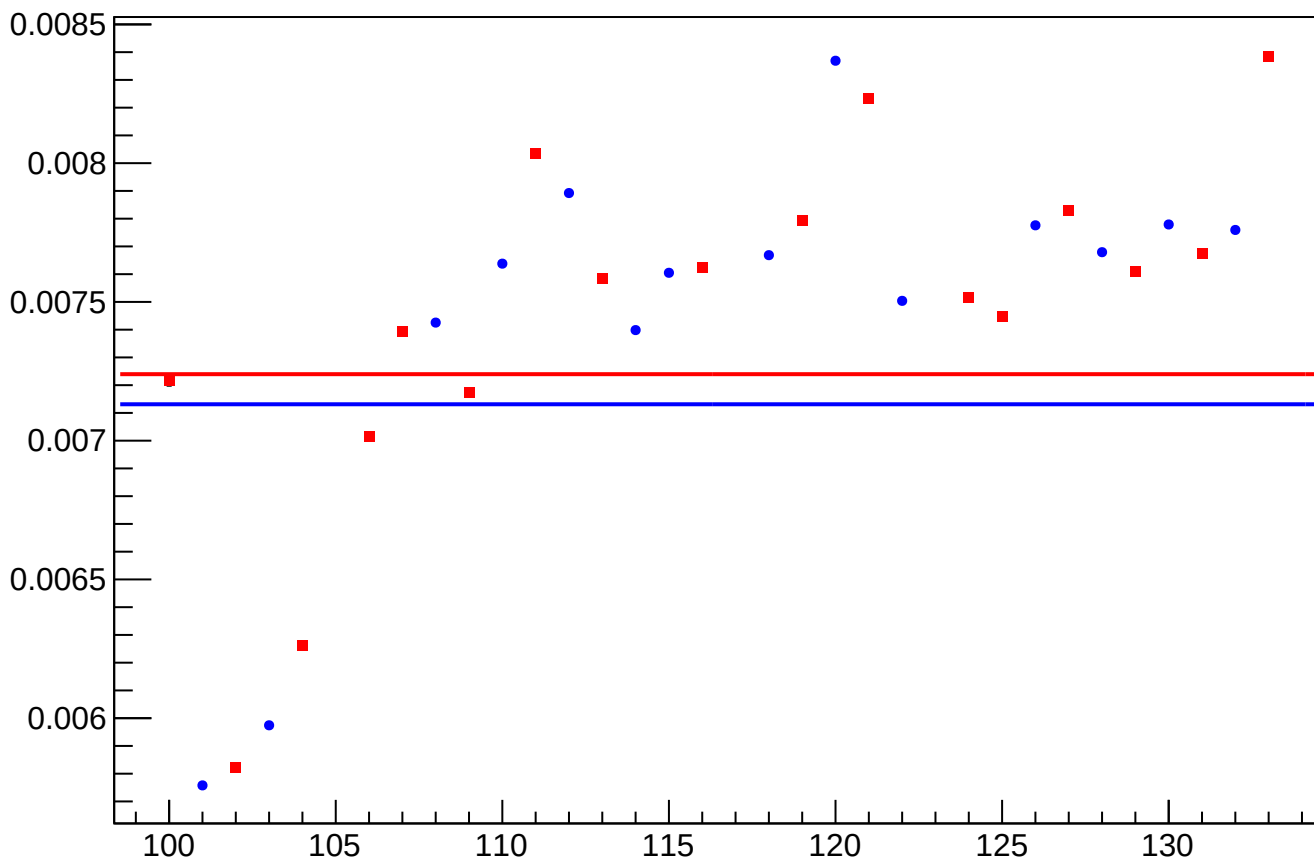
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.403+/-0.000  $\chi^2/\text{NDF}$ : 4830012603.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02Y\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 179776.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 159958.9/16

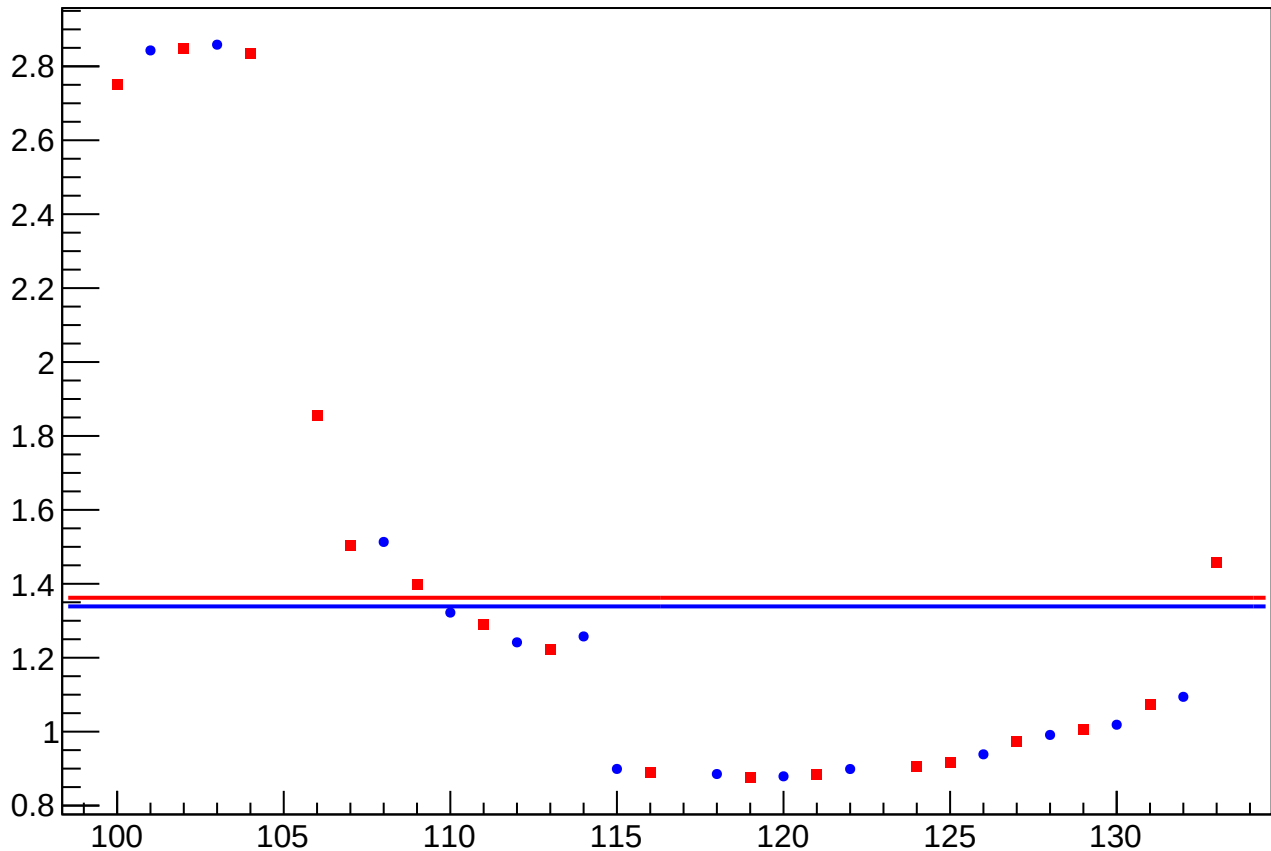
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 341157.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04X\_mean vs Slug



Right In: 1.339+/-0.000  $\chi^2/\text{NDF}$ : 55969250445.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.362+/-0.000  $\chi^2/\text{NDF}$ : 53352600863.7/16

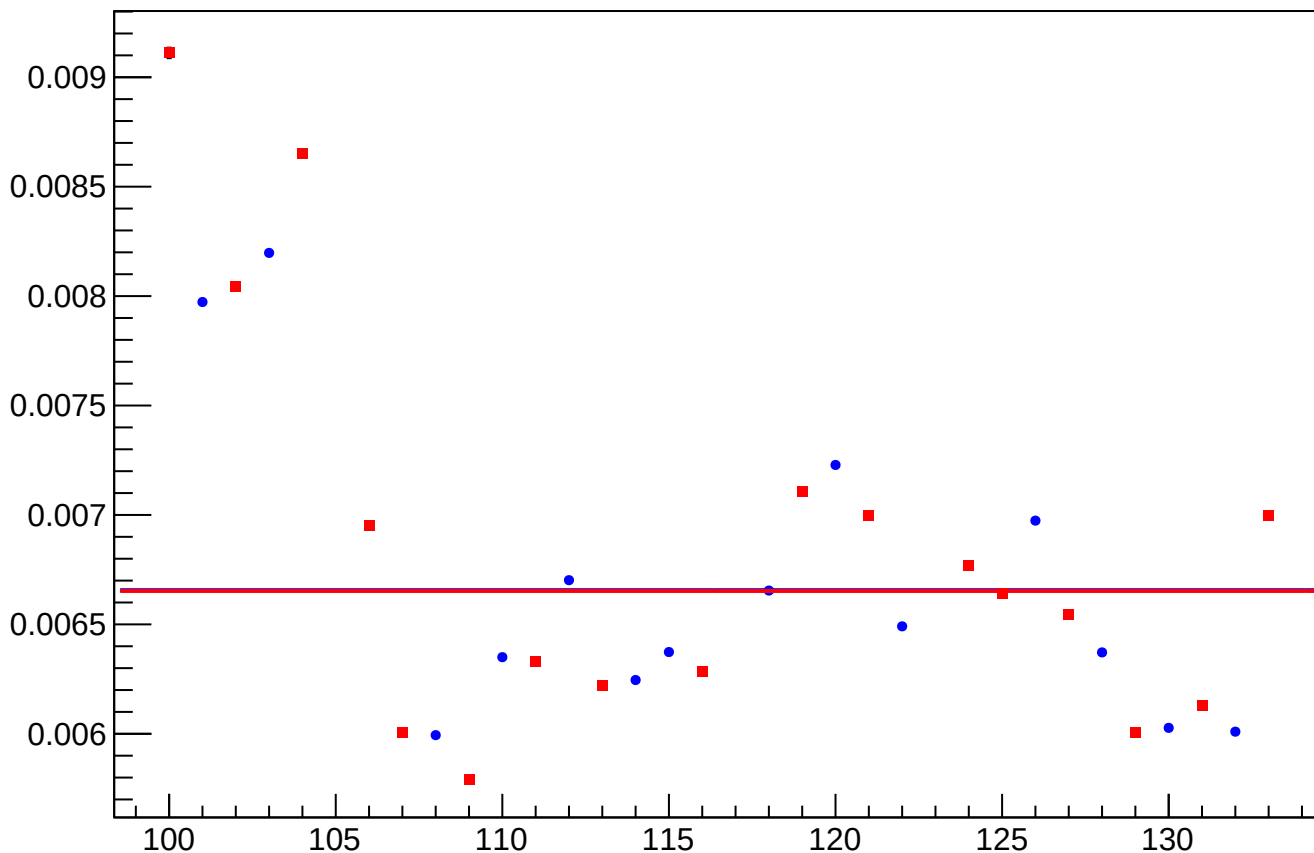
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.351+/-0.000  $\chi^2/\text{NDF}$ : 109360468494.4

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 121229.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 168737.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

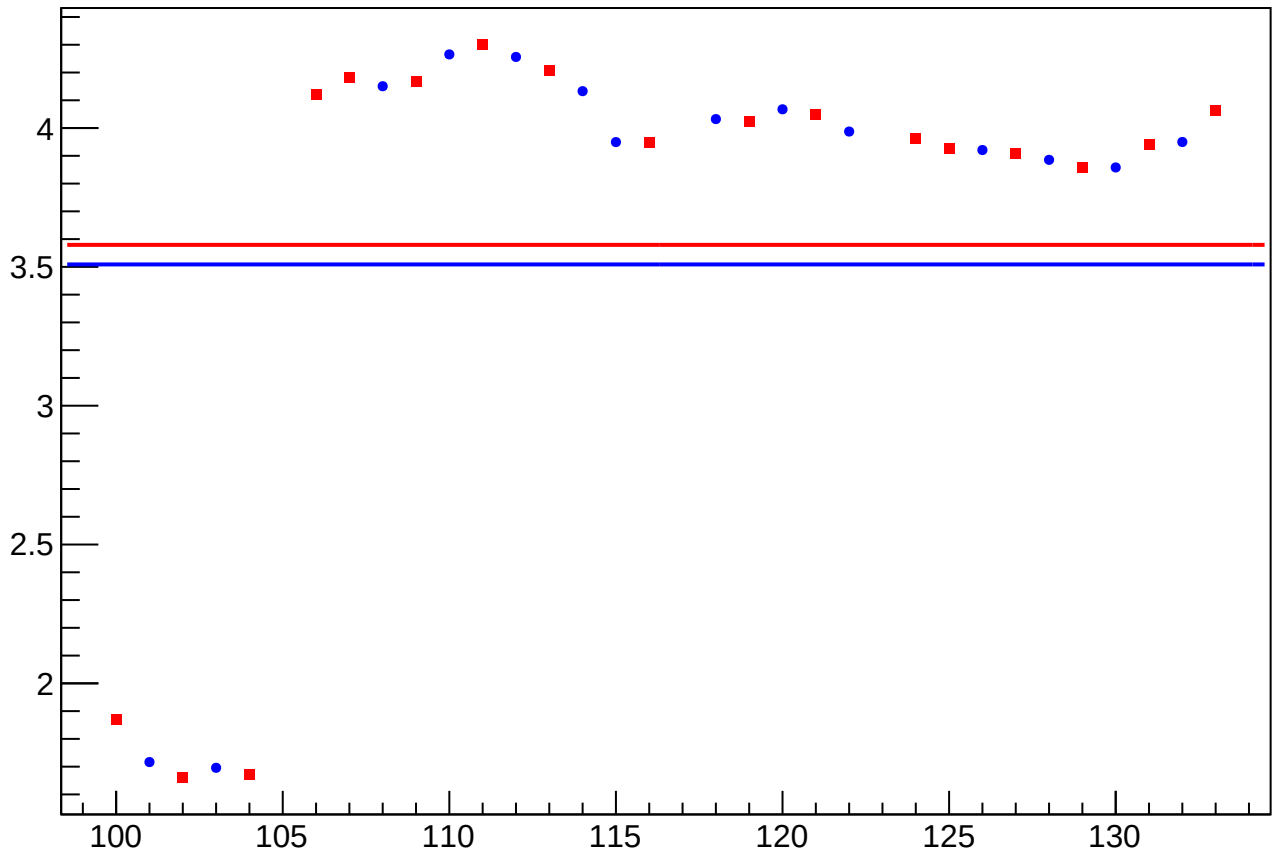
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 289968.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm1i04Y\_mean vs Slug



Right In: 3.509+/-0.000  $\chi^2/\text{NDF}$ : 192748015517.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.579+/-0.000  $\chi^2/\text{NDF}$ : 206019599435.1/16

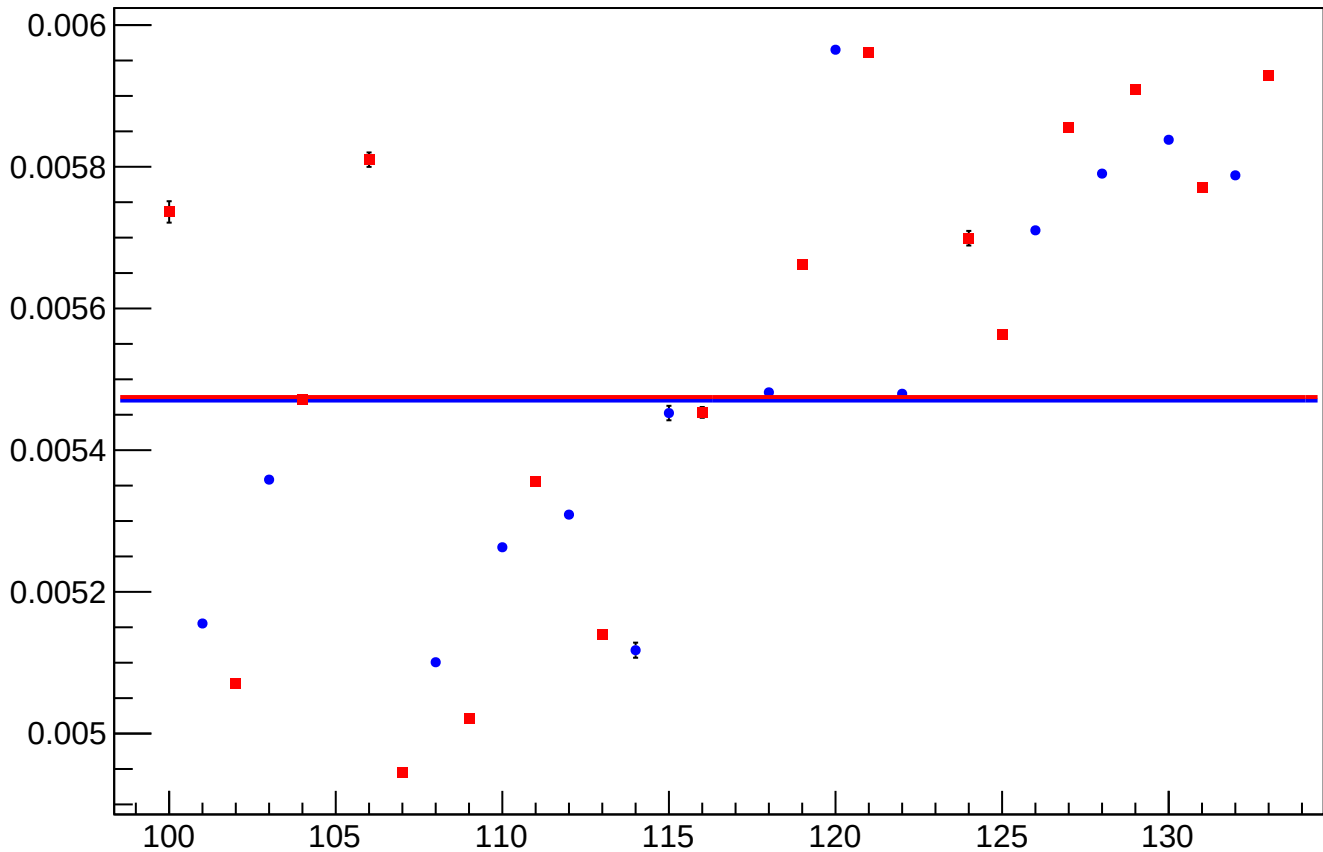
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.546+/-0.000  $\chi^2/\text{NDF}$ : 399285344865.4

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 28866.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 52121.3/16

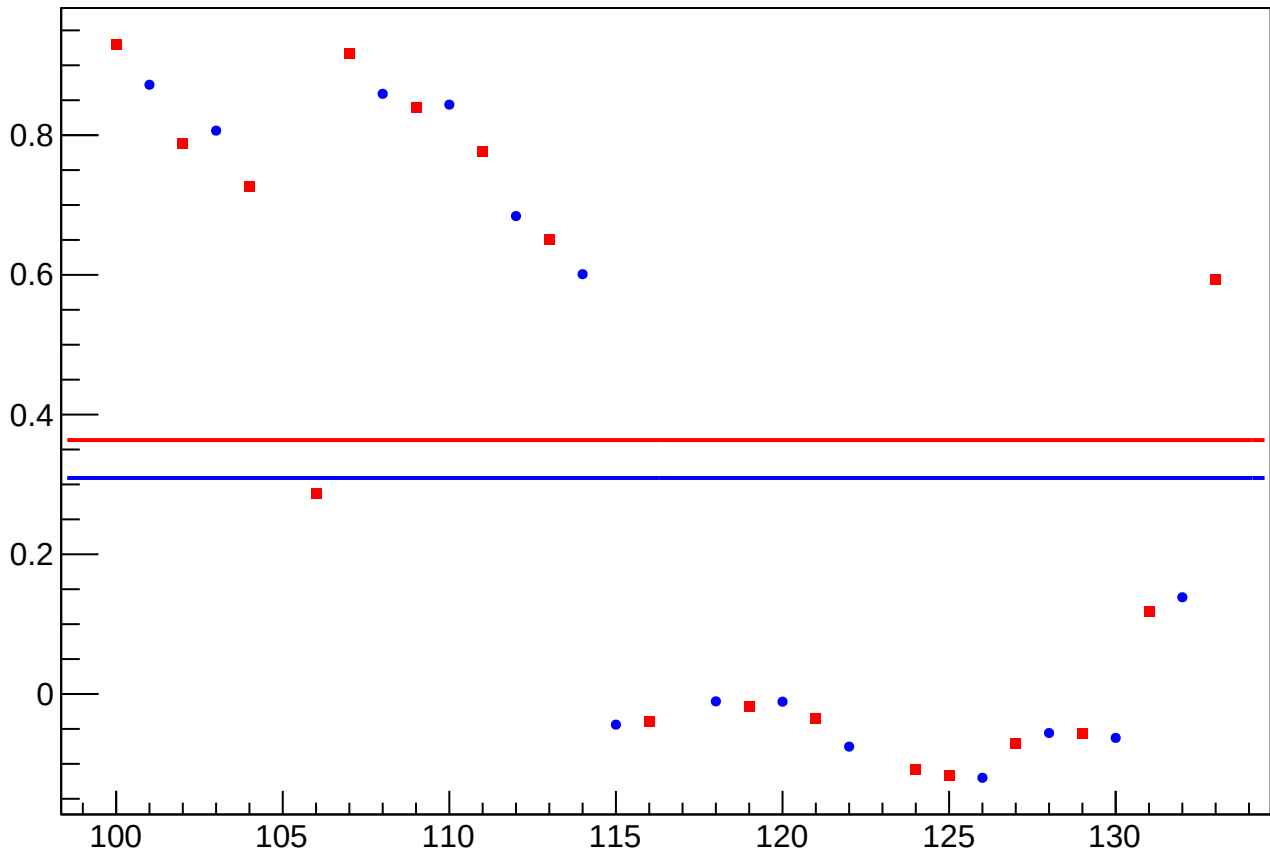
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 80992.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06X\_mean vs Slug



Right In: 0.309+/-0.000  $\chi^2/\text{NDF}$ : 5199423280.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.364+/-0.000  $\chi^2/\text{NDF}$ : 5212612679.0/16

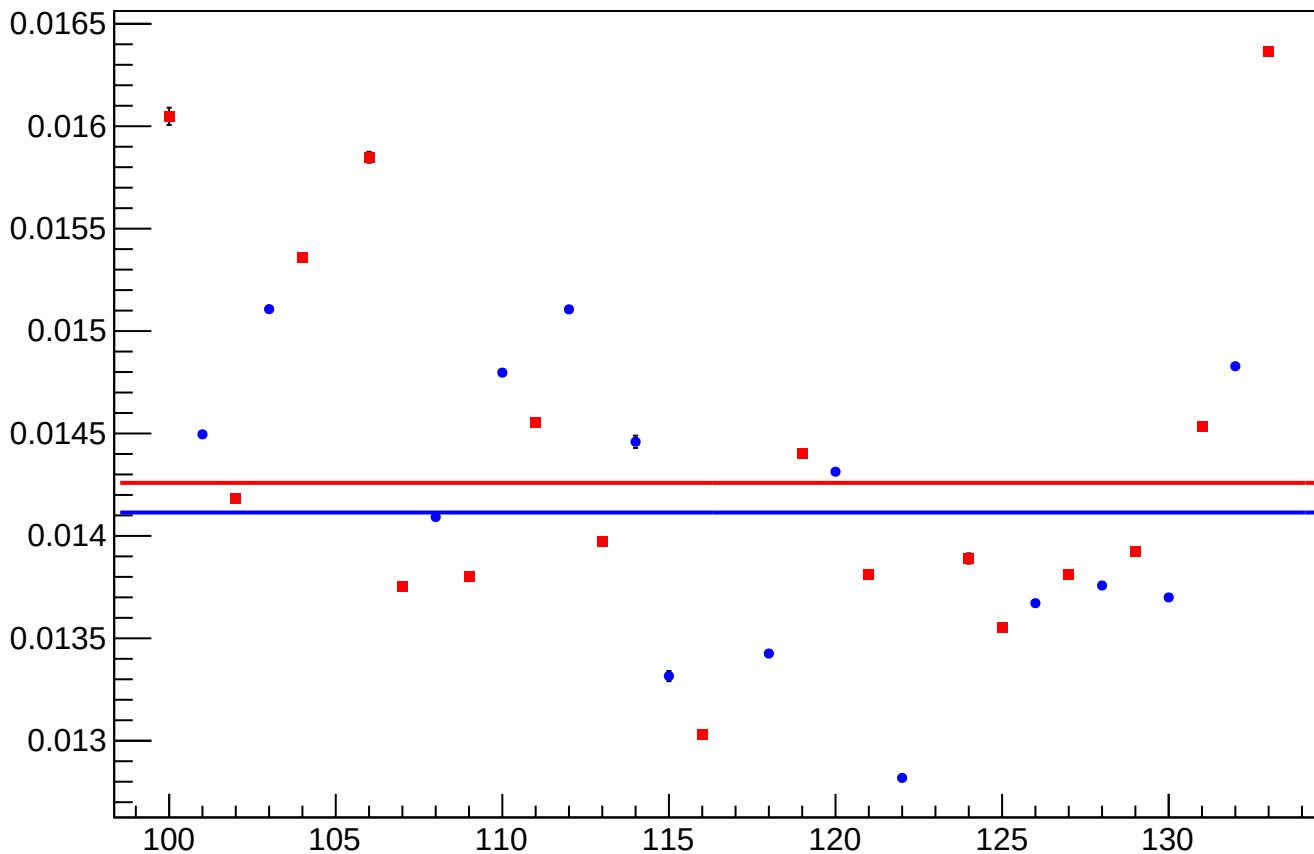
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.338+/-0.000  $\chi^2/\text{NDF}$ : 10457597520.7/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06X\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 28765.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 37694.2/16

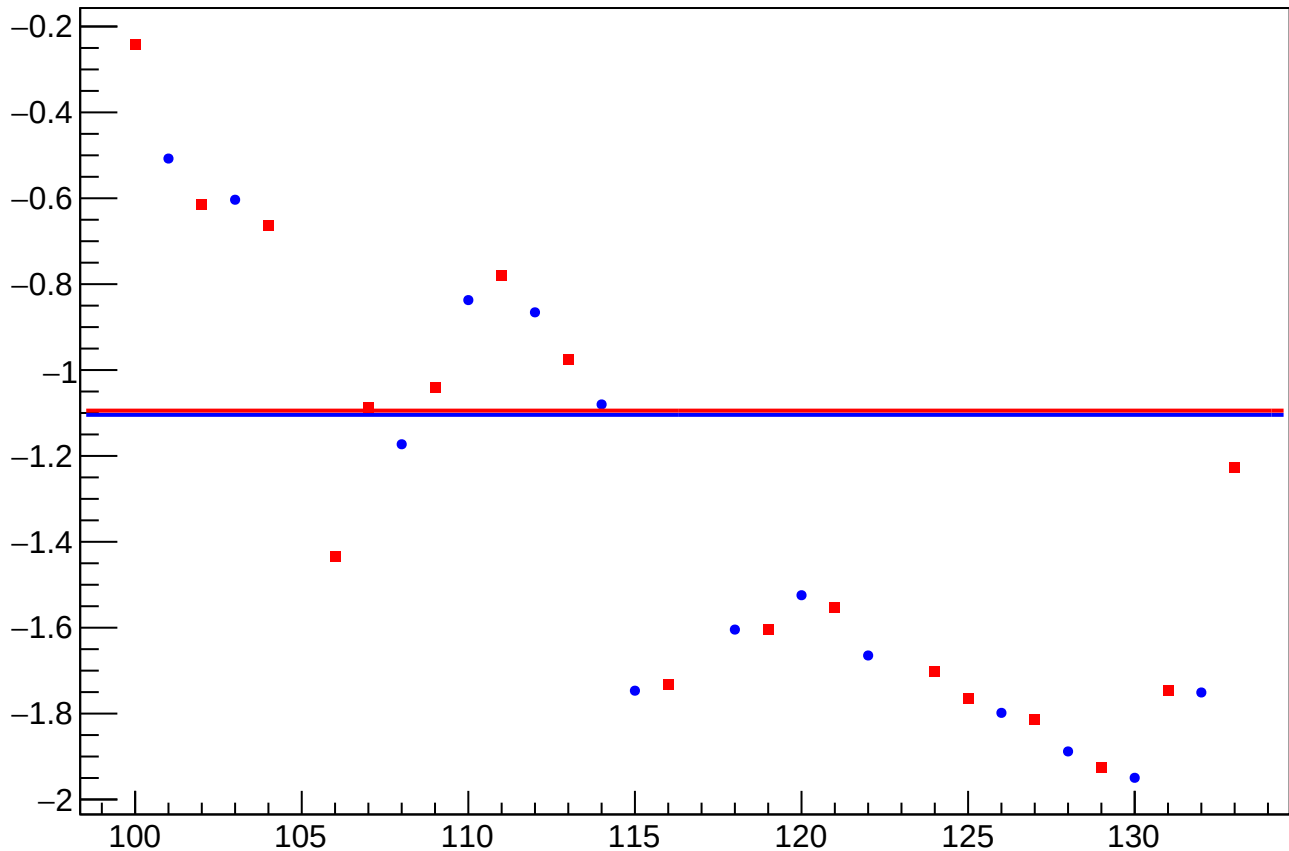
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 67107.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06Y\_mean vs Slug



Right In: -1.104+/-0.000  $\chi^2/\text{NDF}$ : 57202308343.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -1.094+/-0.000  $\chi^2/\text{NDF}$ : 46853446434.8/16

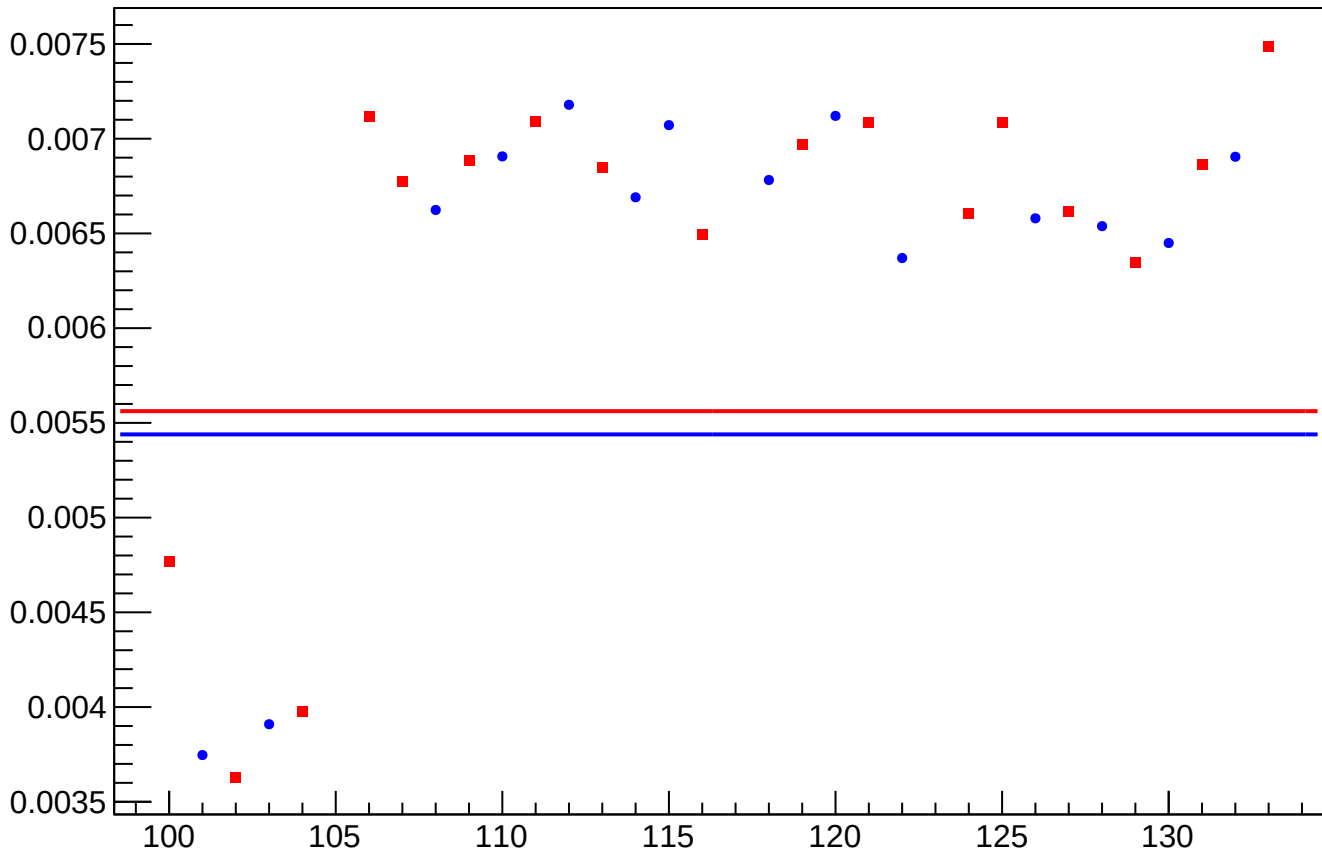
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.099+/-0.000  $\chi^2/\text{NDF}$ : 104064502704.8

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 750507.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 892670.0/16

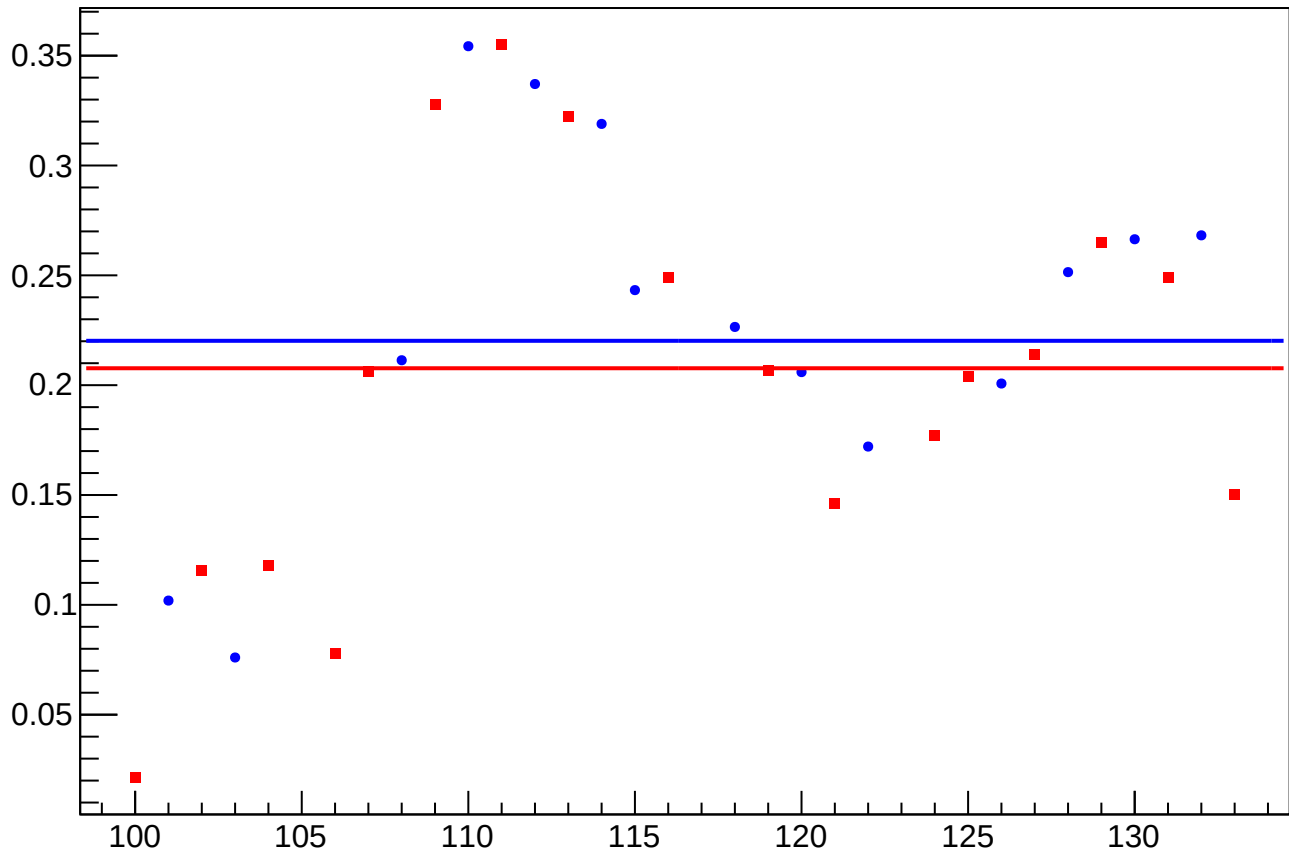
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1645927.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01X\_mean vs Slug



Right In: 0.220+/-0.000  $\chi^2/\text{NDF}$ : 16383712557.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.208+/-0.000  $\chi^2/\text{NDF}$ : 21931386206.2/16

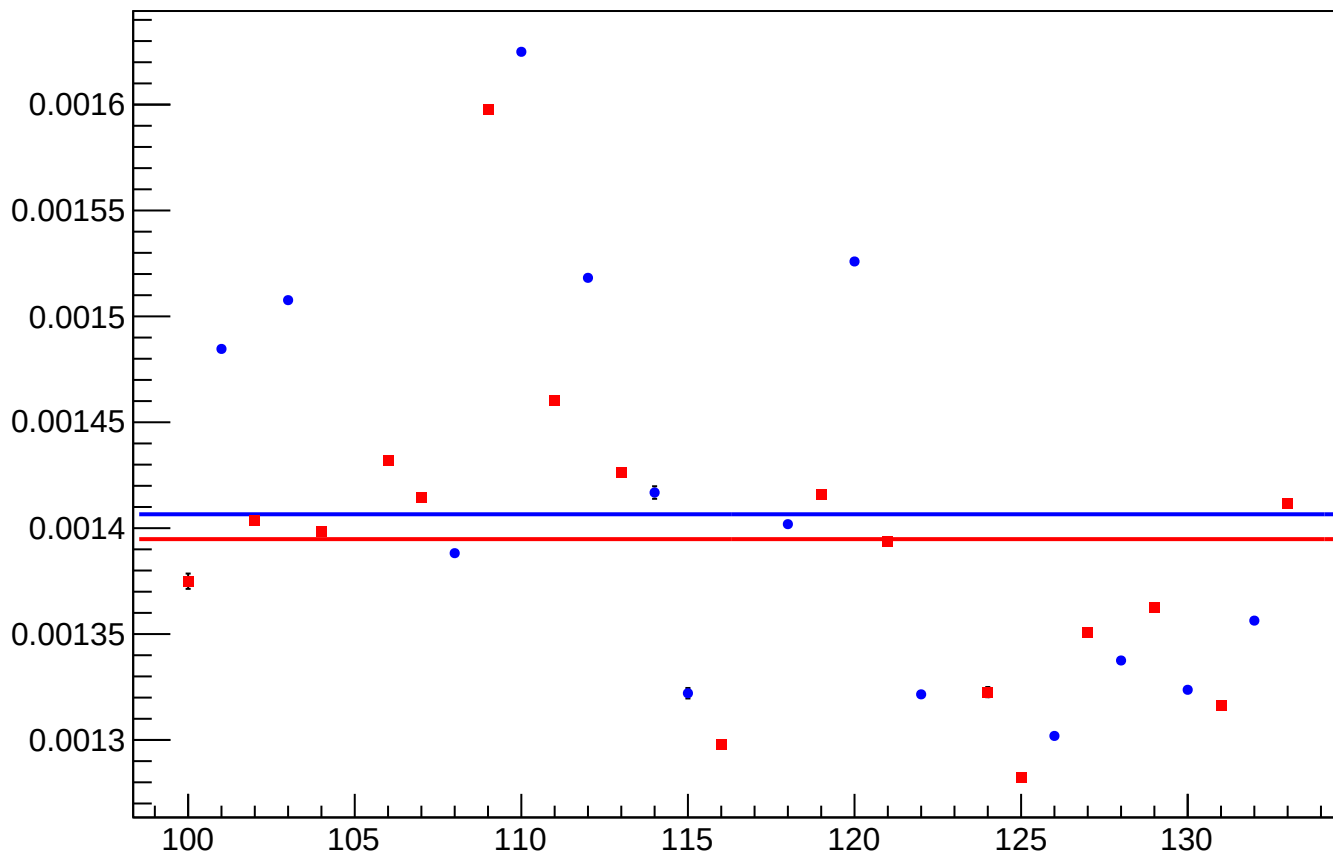
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.213+/-0.000  $\chi^2/\text{NDF}$ : 38558173282.3/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01X\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 47575.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 33093.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

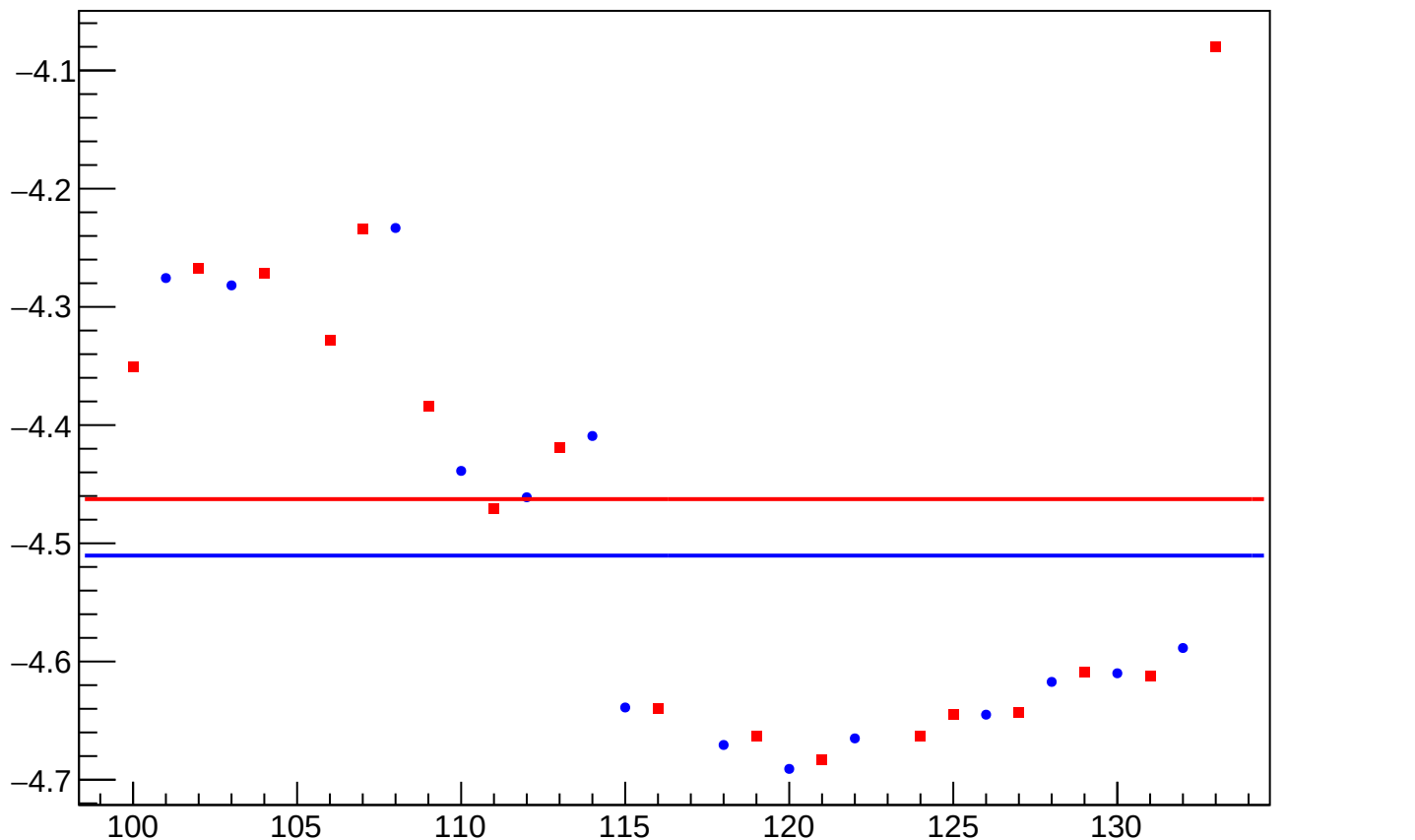
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 81098.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm2i01Y\_mean vs Slug



Right In: -4.510+/-0.000  $\chi^2/\text{NDF}$ : 57361889524.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.463+/-0.000  $\chi^2/\text{NDF}$ : 84441088890.6/16

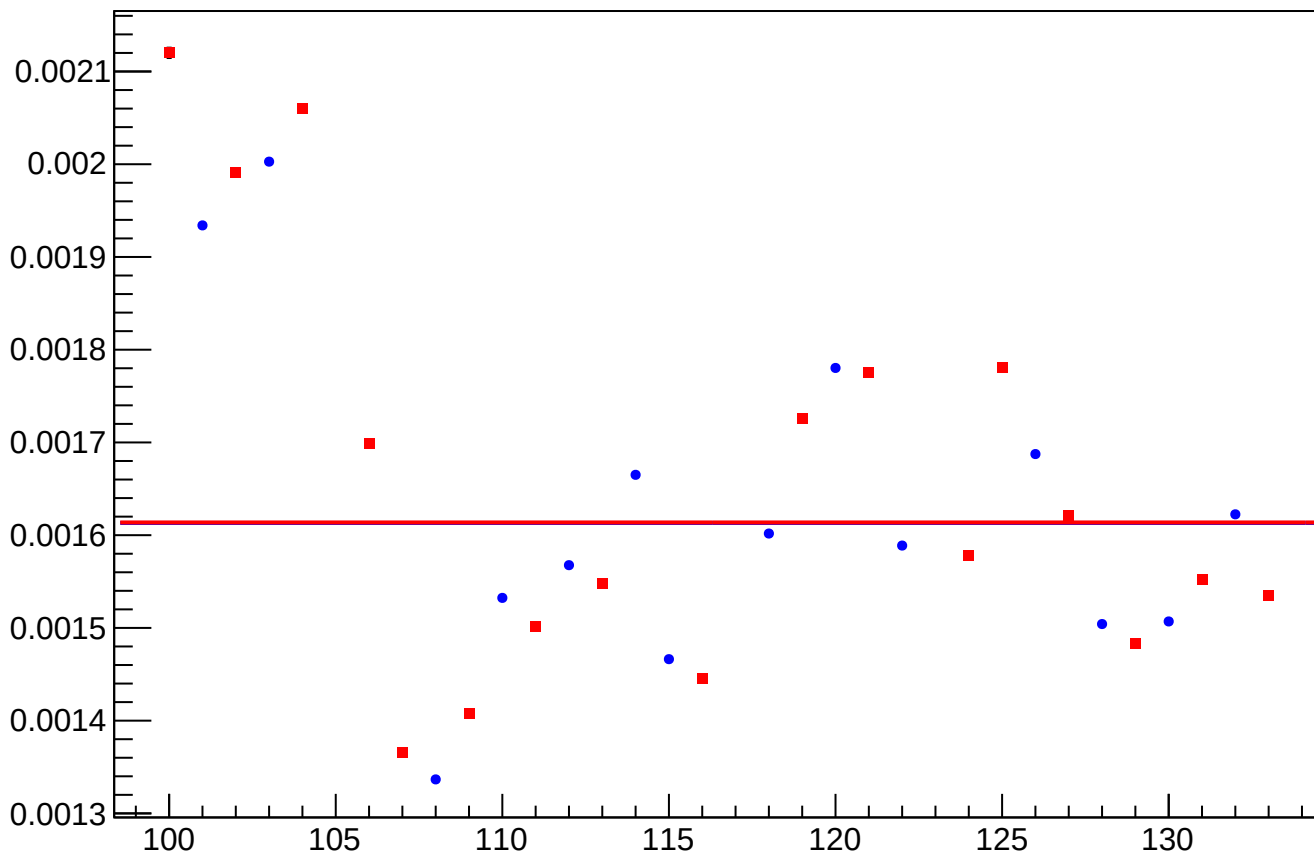
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.485+/-0.000  $\chi^2/\text{NDF}$ : 144452685658.1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01Y\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 138485.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 183200.3/16

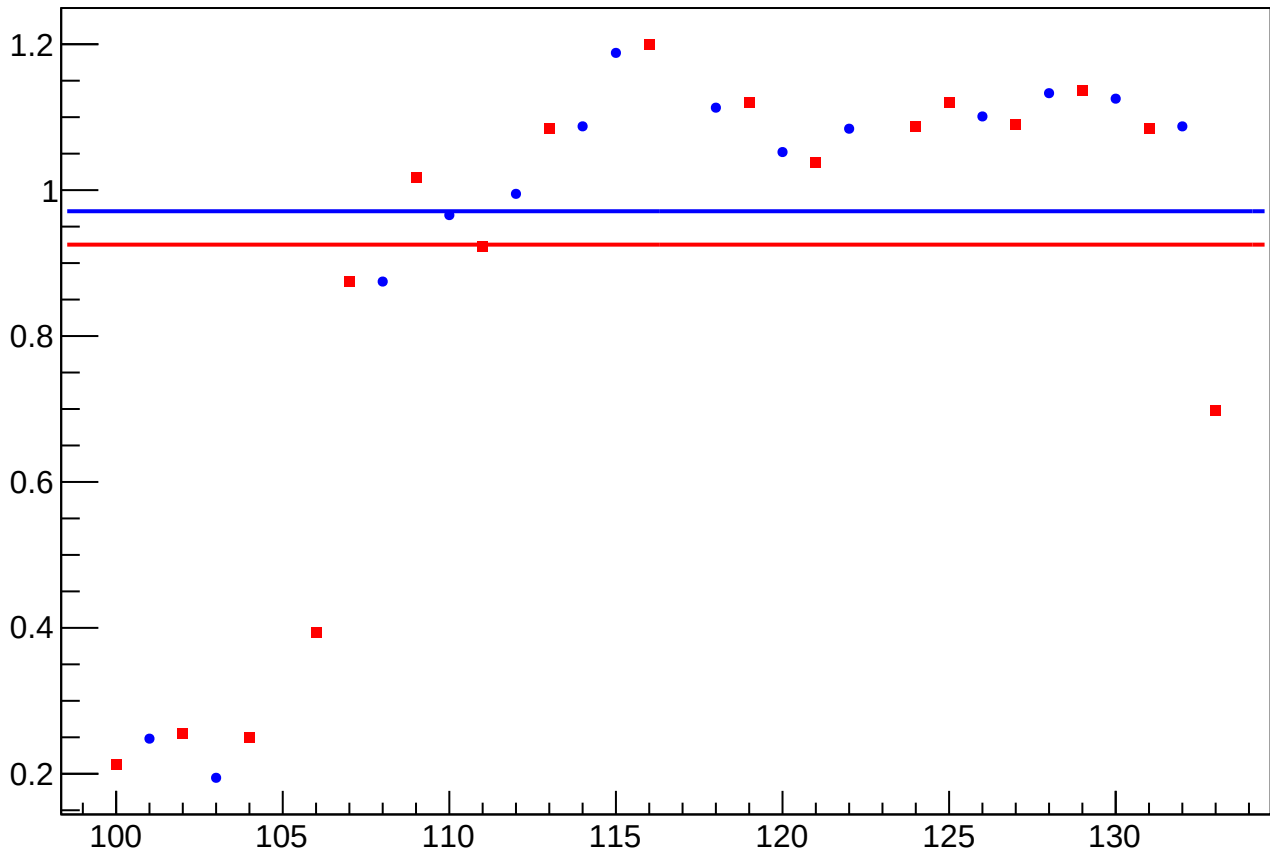
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 321686.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02X\_mean vs Slug



Right In: 0.971+/-0.000  $\chi^2/\text{NDF}$ : 11225622855.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.925+/-0.000  $\chi^2/\text{NDF}$ : 14720365651.0/16

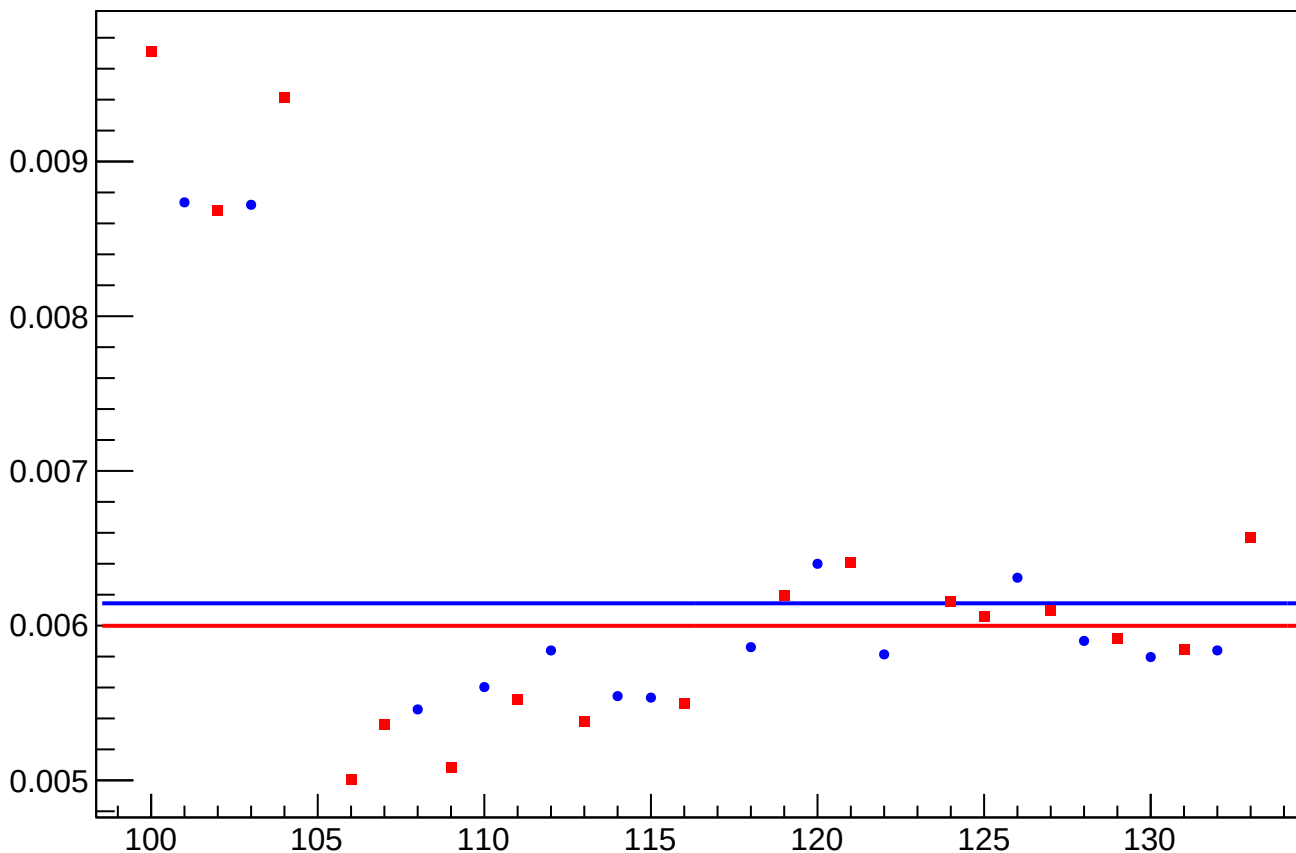
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.946+/-0.000  $\chi^2/\text{NDF}$ : 26120757489.2/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02X\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 261982.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 385311.8/16

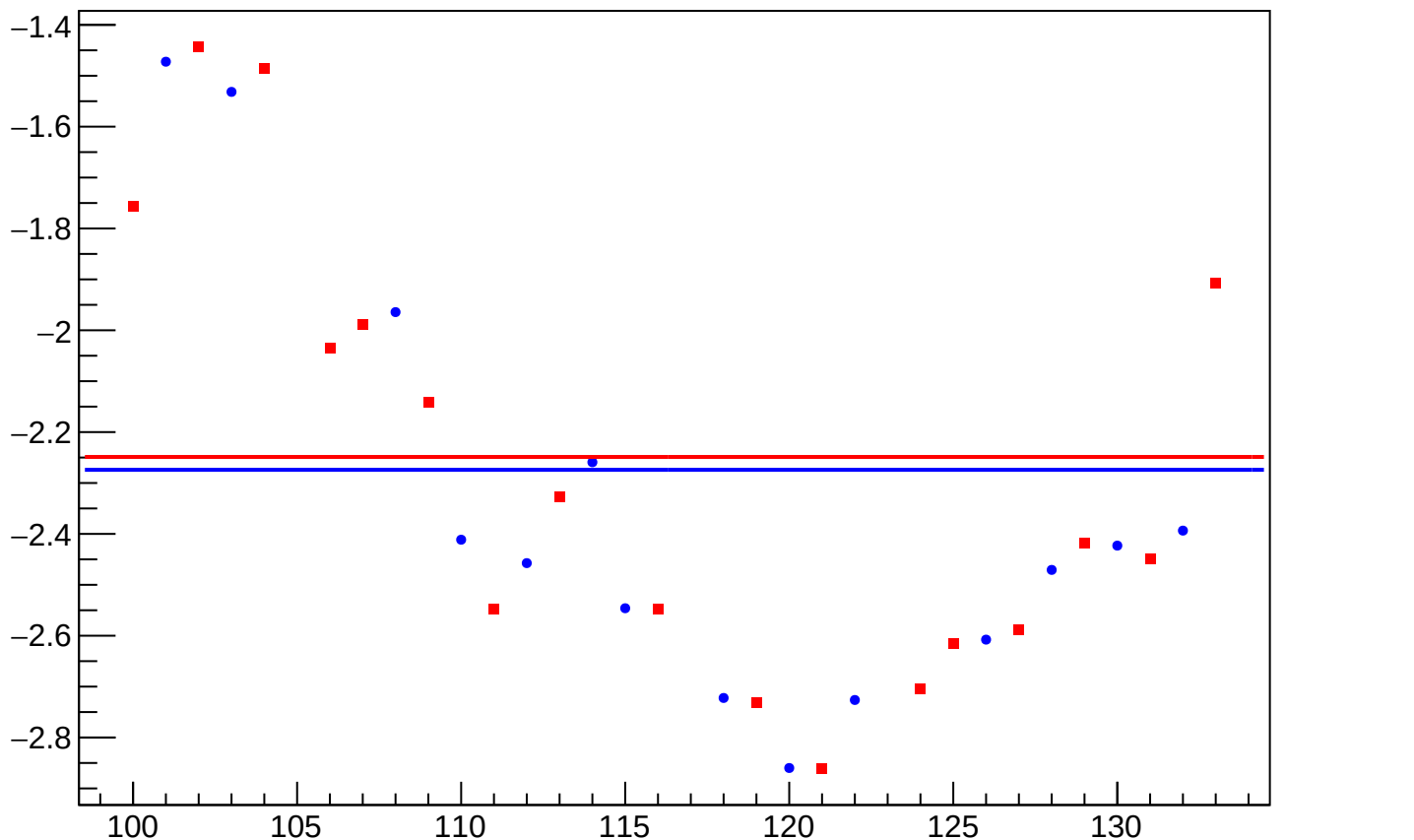
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 650822.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02Y\_mean vs Slug



Right In:  $-2.274 \pm 0.000$   $\chi^2/\text{NDF}$ : 37489518233.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.249 \pm 0.000$   $\chi^2/\text{NDF}$ : 39691175275.1/16

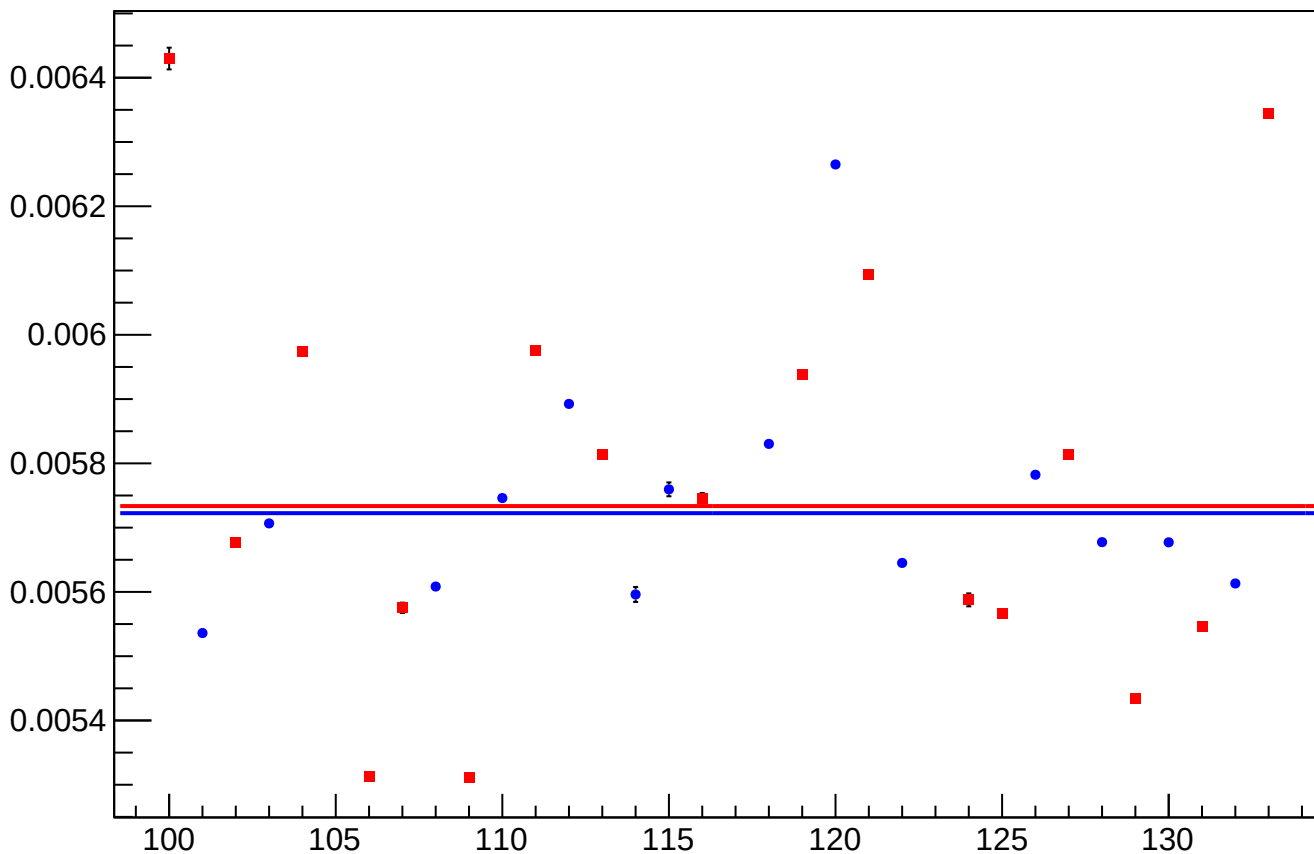
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.261 \pm 0.000$   $\chi^2/\text{NDF}$ : 77242308043.9

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02Y\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 9091.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 33586.2/16

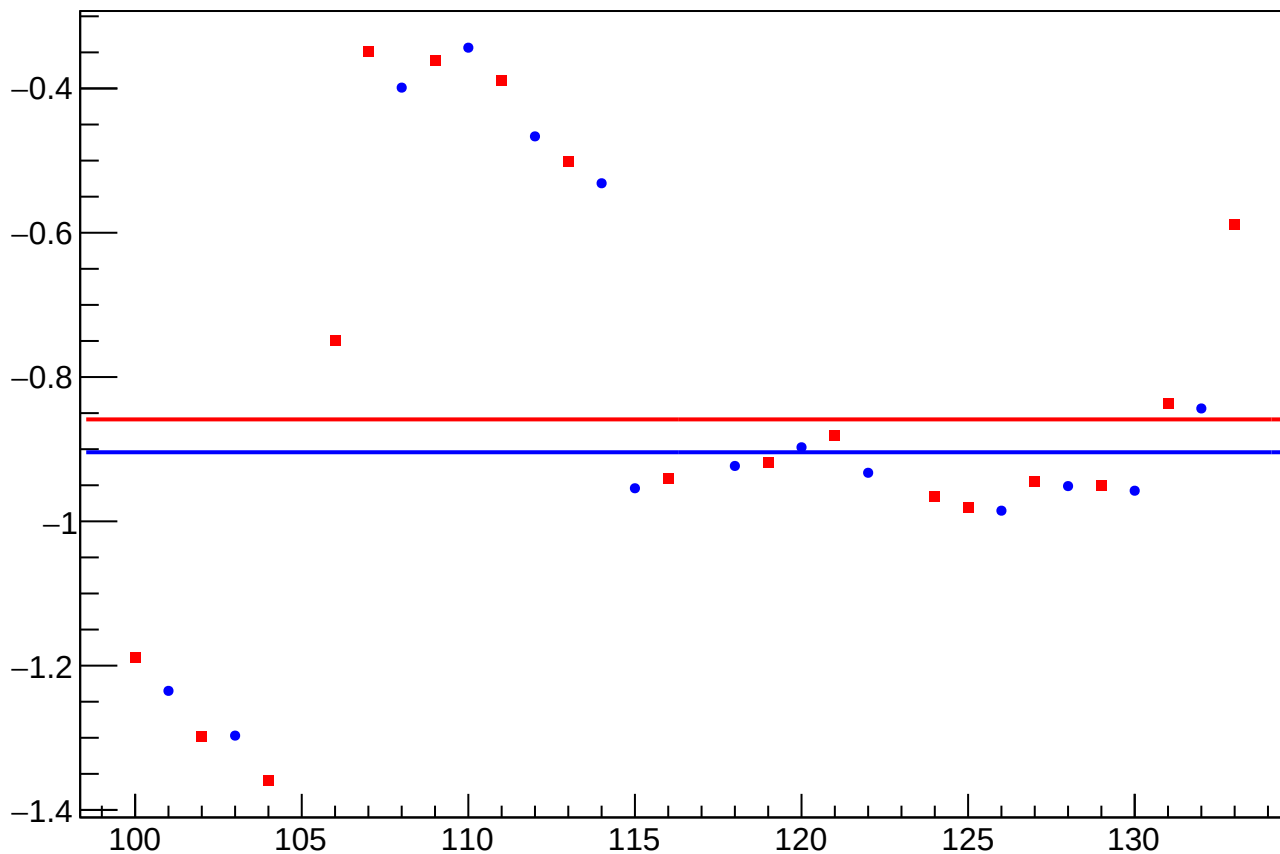
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 42701.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01X\_mean vs Slug



Right In: -0.904+/-0.000  $\chi^2/\text{NDF}$ : 4174972283.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.859+/-0.000  $\chi^2/\text{NDF}$ : 5983103387.2/16

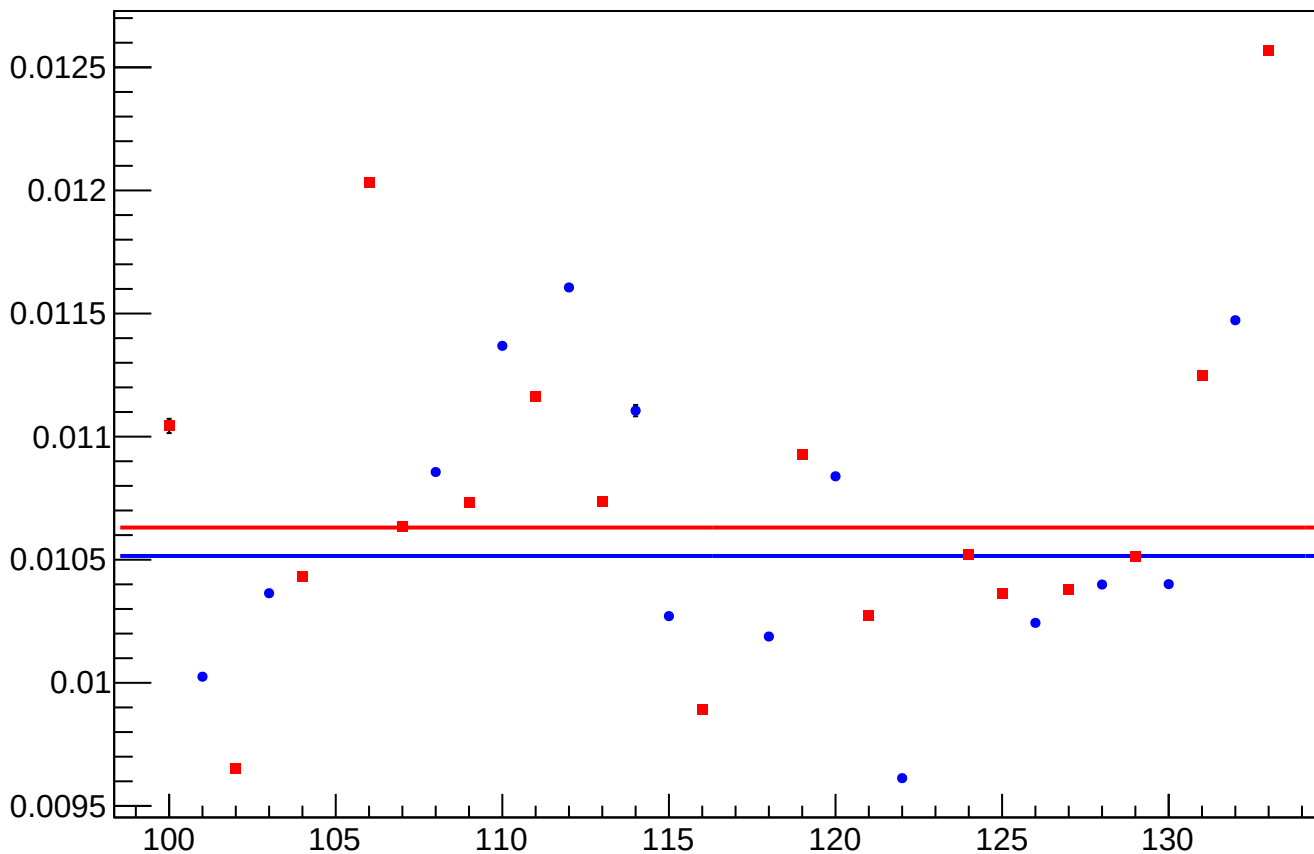
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.880+/-0.000  $\chi^2/\text{NDF}$ : 10215434663.4/

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 33233.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 50577.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

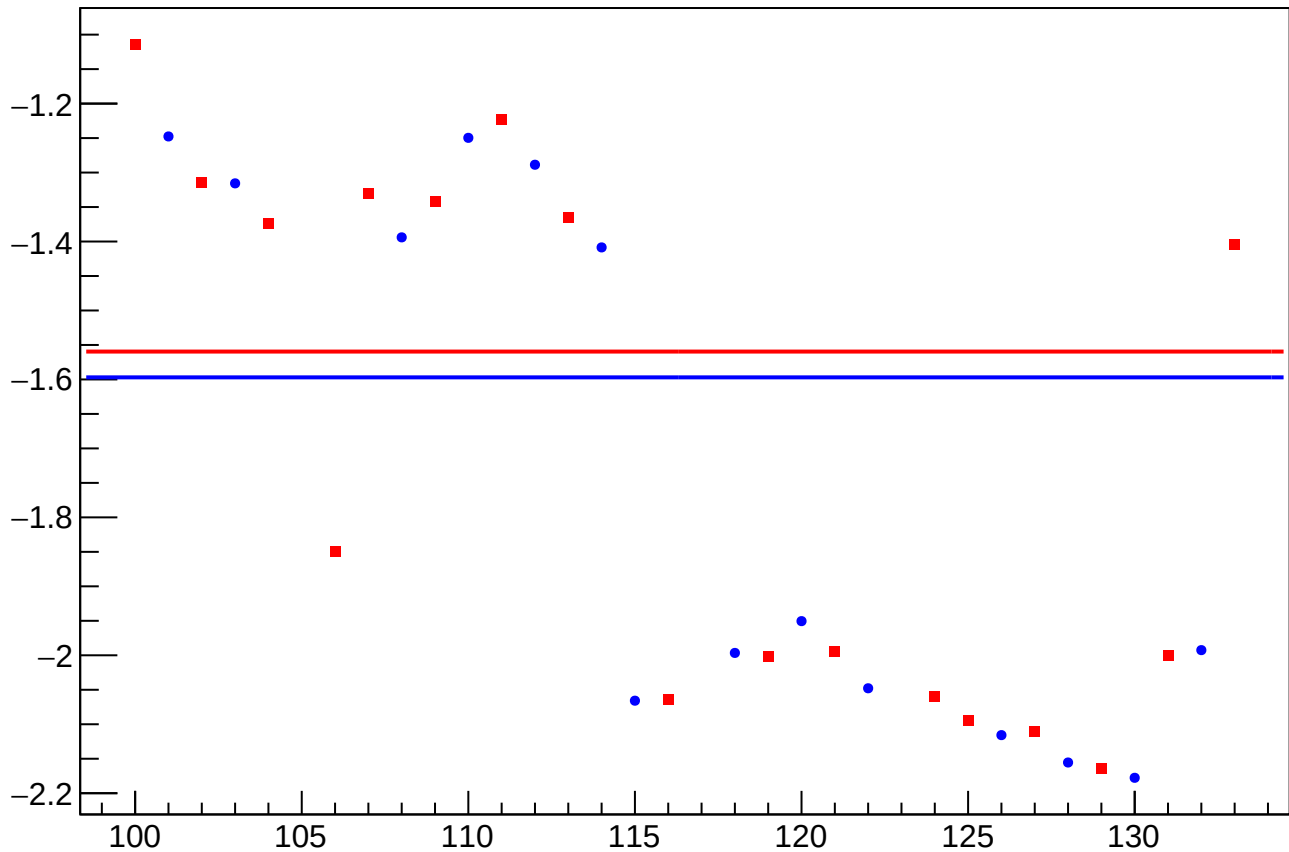
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 84547.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i01Y\_mean vs Slug



Right In: -1.597+/-0.000  $\chi^2/\text{NDF}$ : 127494352641.3/13

+ 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

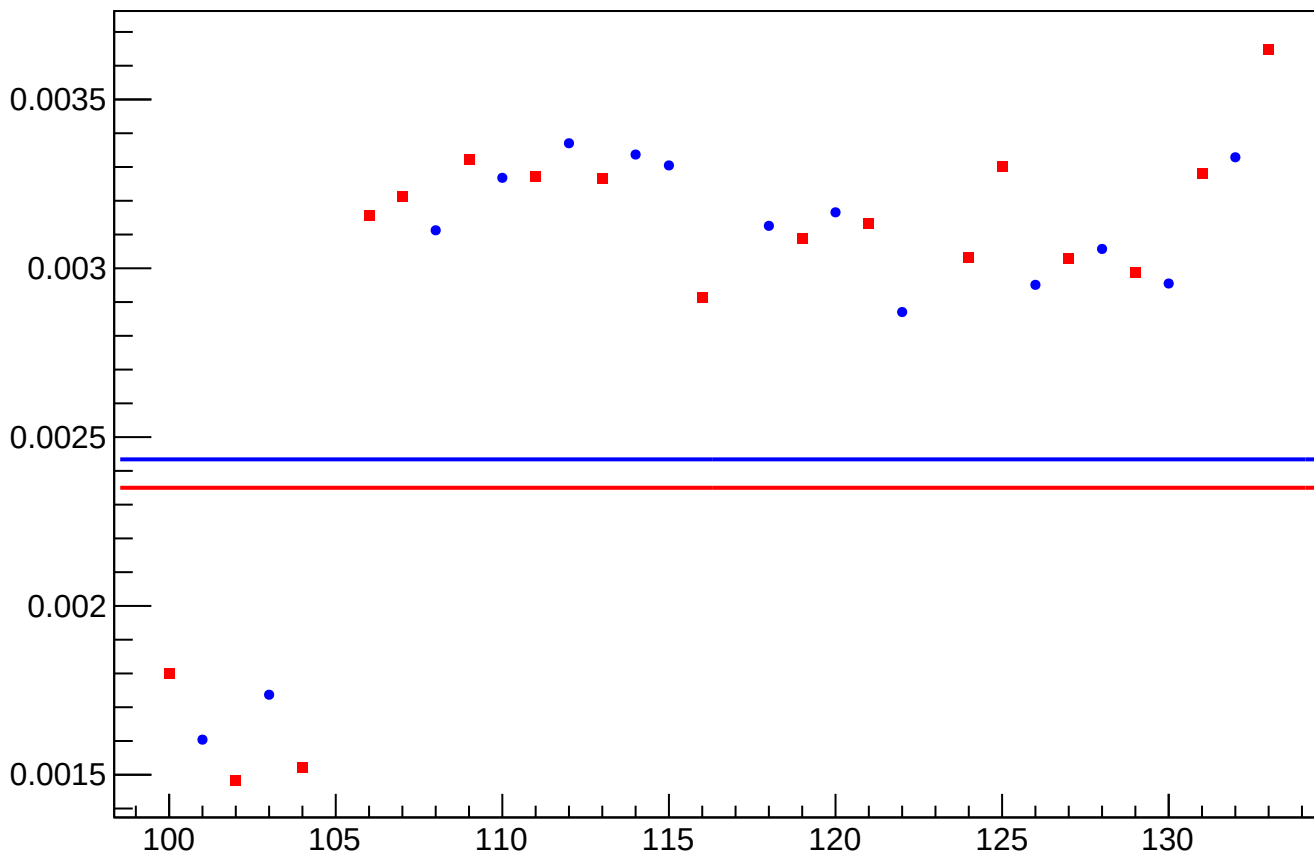
Right Out: -1.560+/-0.000  $\chi^2/\text{NDF}$ : 112484946248.9/16

All: -1.577+/-0.000  $\chi^2/\text{NDF}$ : 240609454787.8

- 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\_bpm0i01Y\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 906608.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1389146.0/16

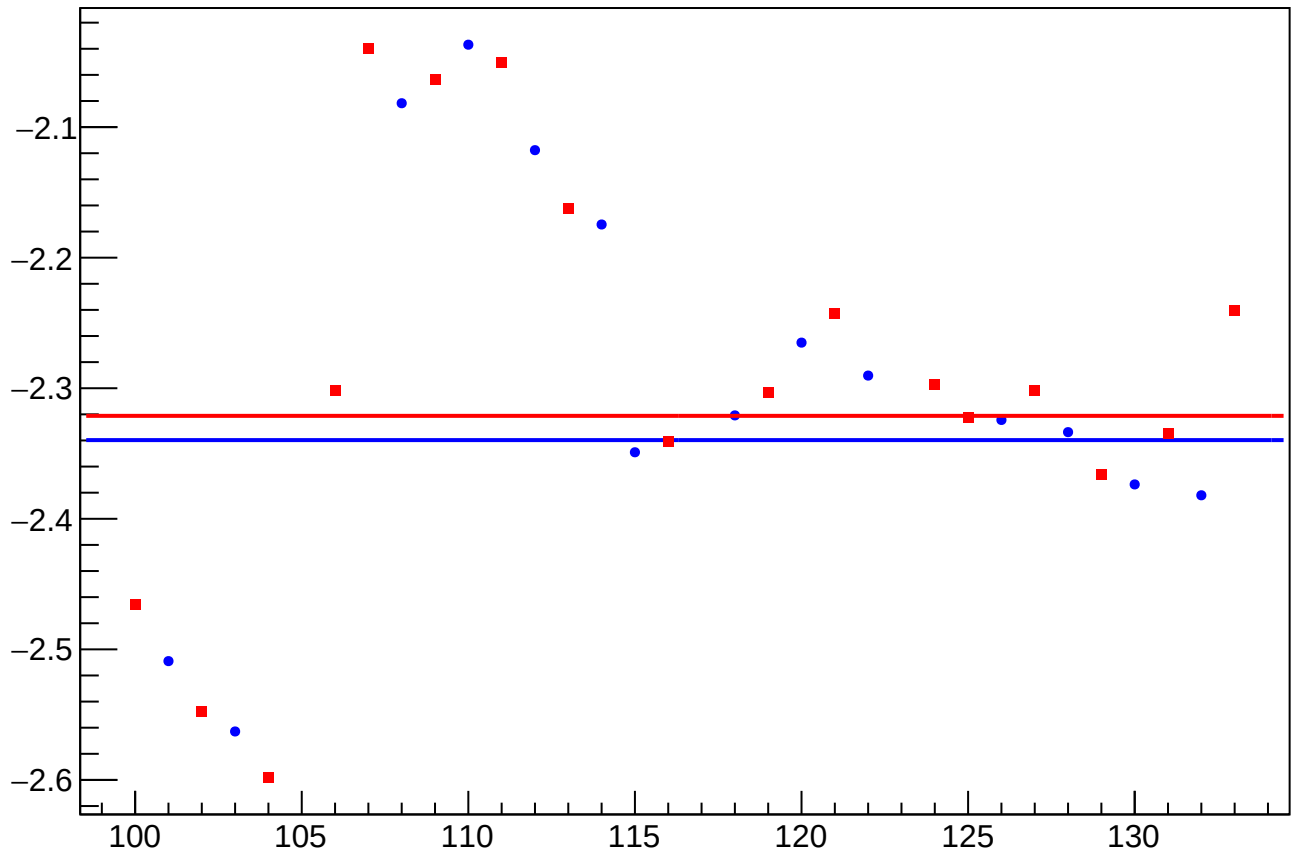
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2302131.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aX\_mean vs Slug



Right In: -2.340+/-0.000  $\chi^2/\text{NDF}$ : 3250153692.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.321+/-0.000  $\chi^2/\text{NDF}$ : 4597503379.4/16

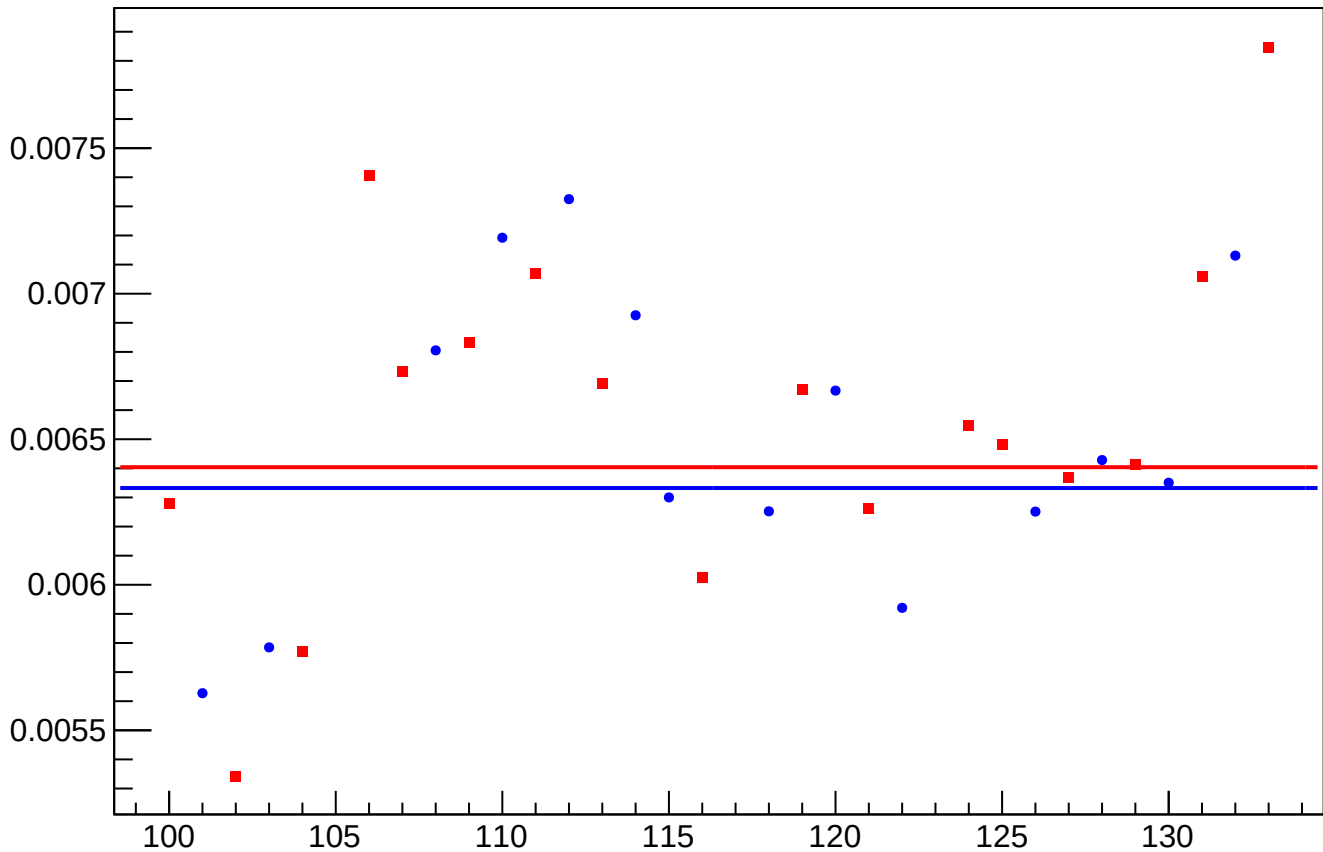
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.330+/-0.000  $\chi^2/\text{NDF}$ : 7873519819.6/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aX\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 80607.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 126085.9/16

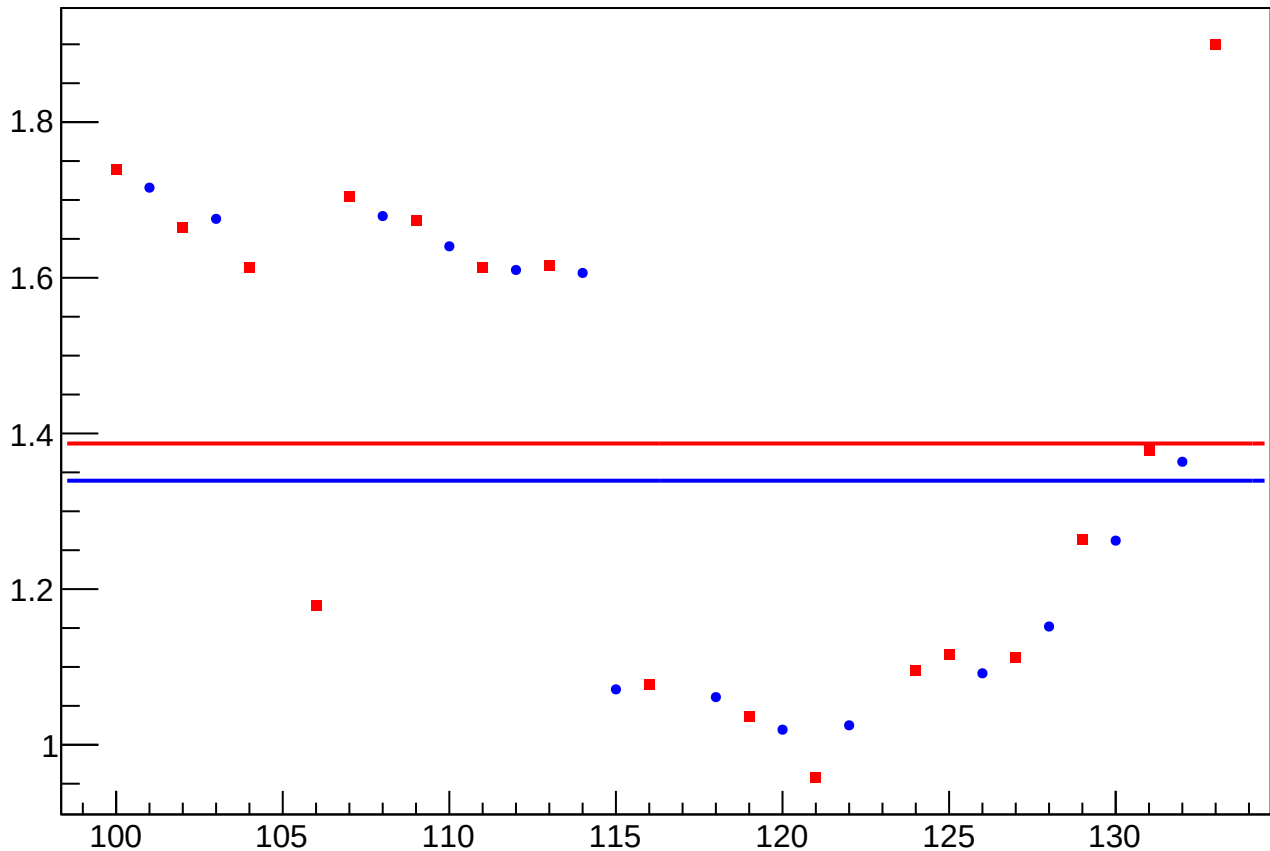
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 207459.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aY\_mean vs Slug



Right In: 1.339+/-0.000  $\chi^2/\text{NDF}$ : 100353942881.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.387+/-0.000  $\chi^2/\text{NDF}$ : 128674712986.0/16

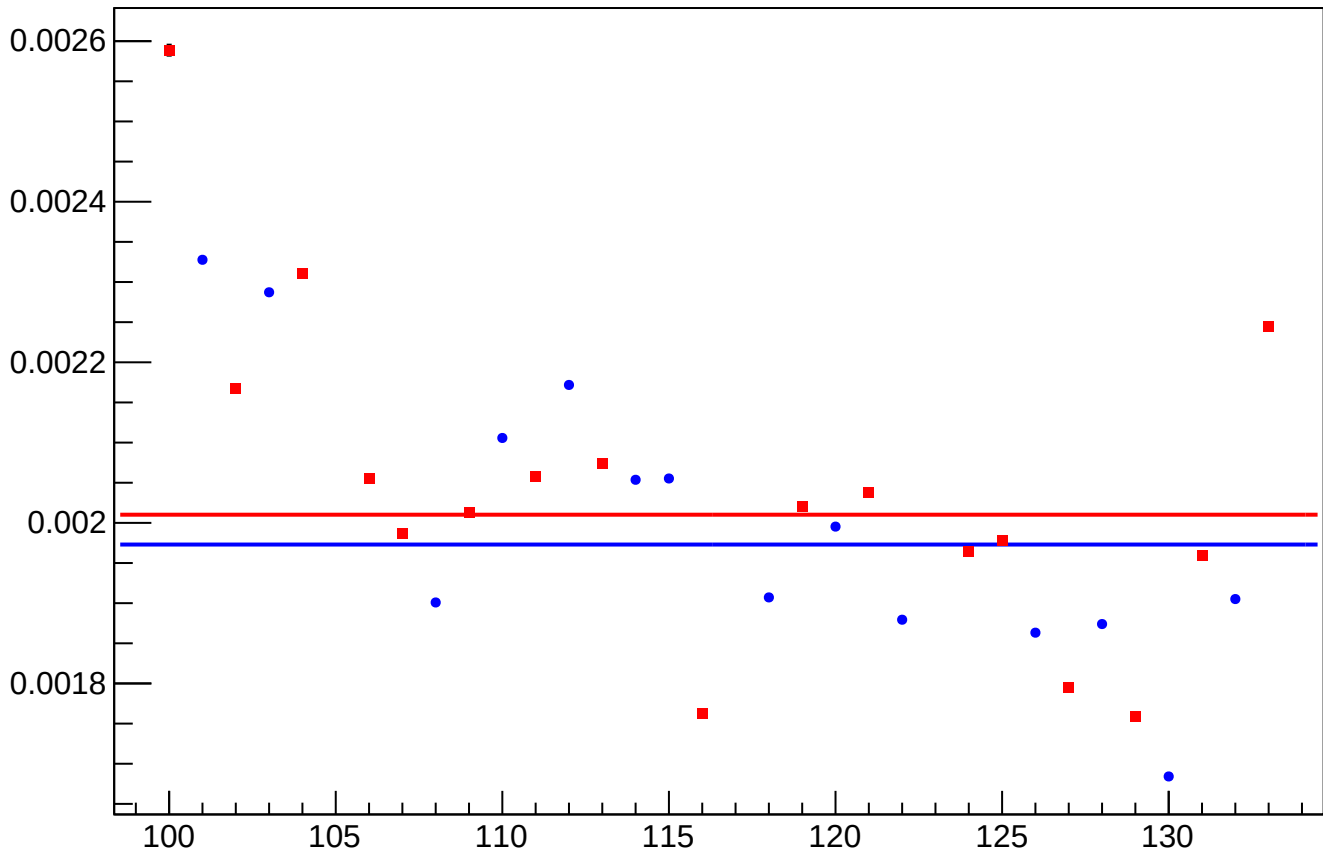
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.364+/-0.000  $\chi^2/\text{NDF}$ : 230692669794.5

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aY\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 101650.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 81892.2/16

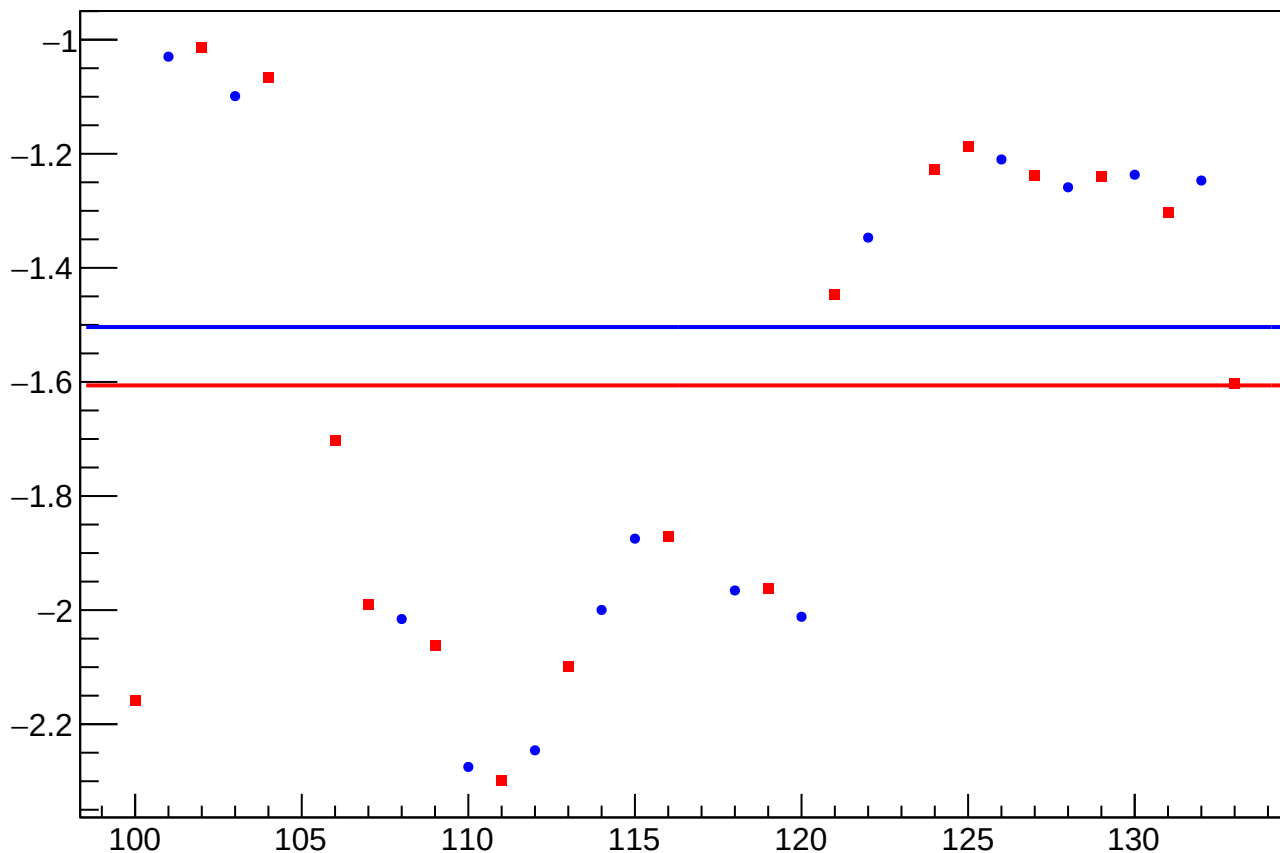
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 185557.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l01X\_mean vs Slug



Right In: -1.504+/-0.000  $\chi^2/\text{NDF}$ : 22834205048.9/13

+ 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

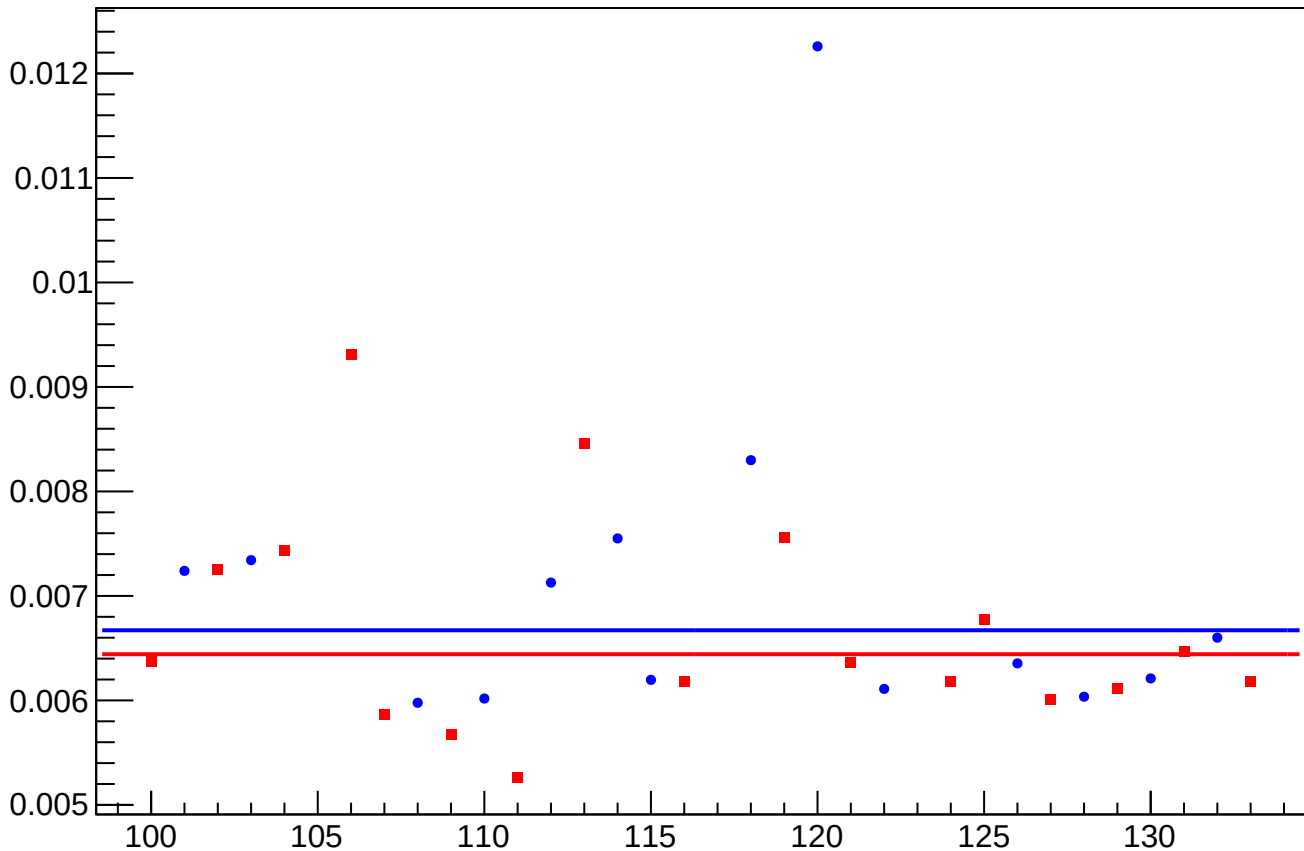
Right Out: -1.606+/-0.000  $\chi^2/\text{NDF}$ : 28262505207.7/16

All: -1.561+/-0.000  $\chi^2/\text{NDF}$ : 51787867205.9/30

- 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\_bpm0l01X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 216965.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 222351.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

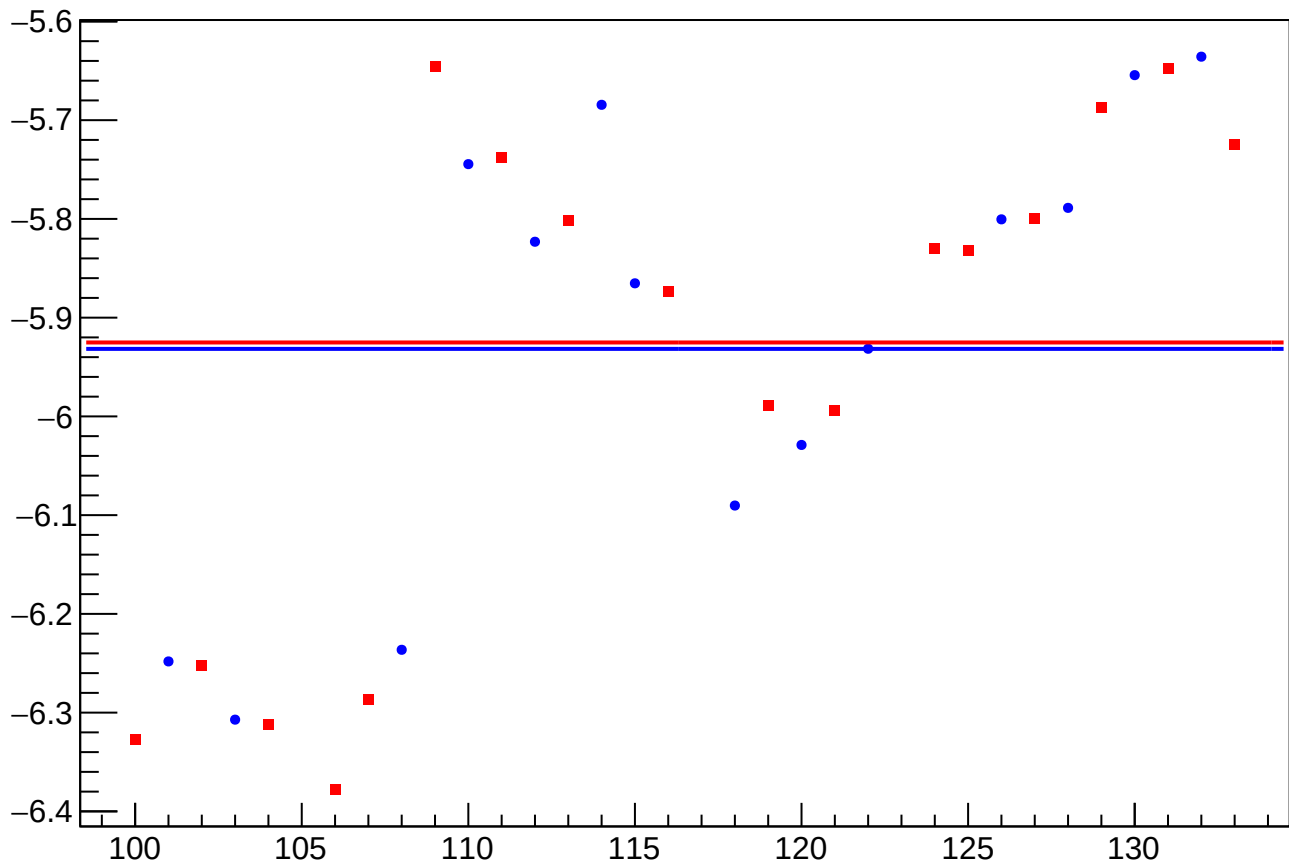
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 446260.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l01Y\_mean vs Slug



Right In: -5.932+/-0.000  $\chi^2/\text{NDF}$ : 11167424585.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.925+/-0.000  $\chi^2/\text{NDF}$ : 12587540658.4/16

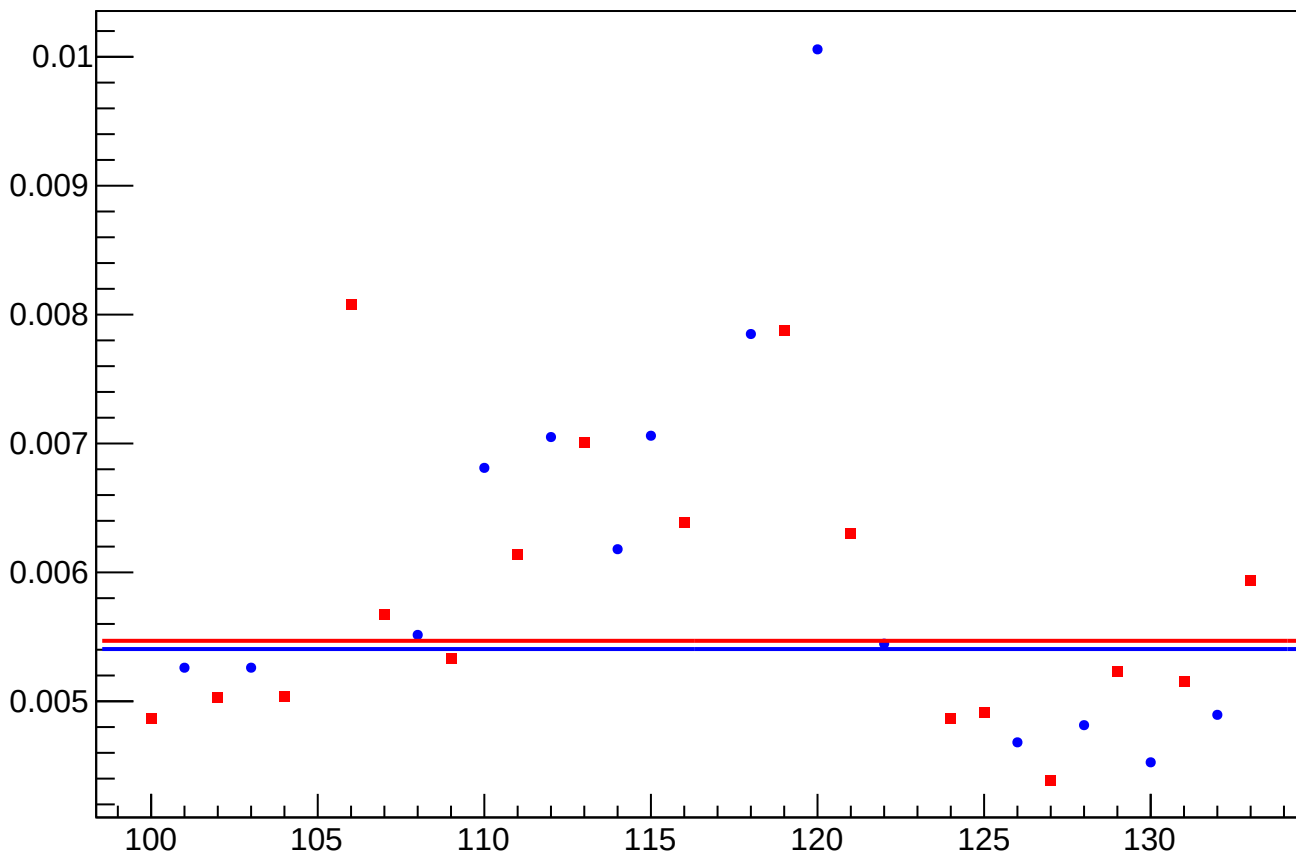
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.928+/-0.000  $\chi^2/\text{NDF}$ : 23758943915.2/

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l01Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 379312.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 306123.8/16

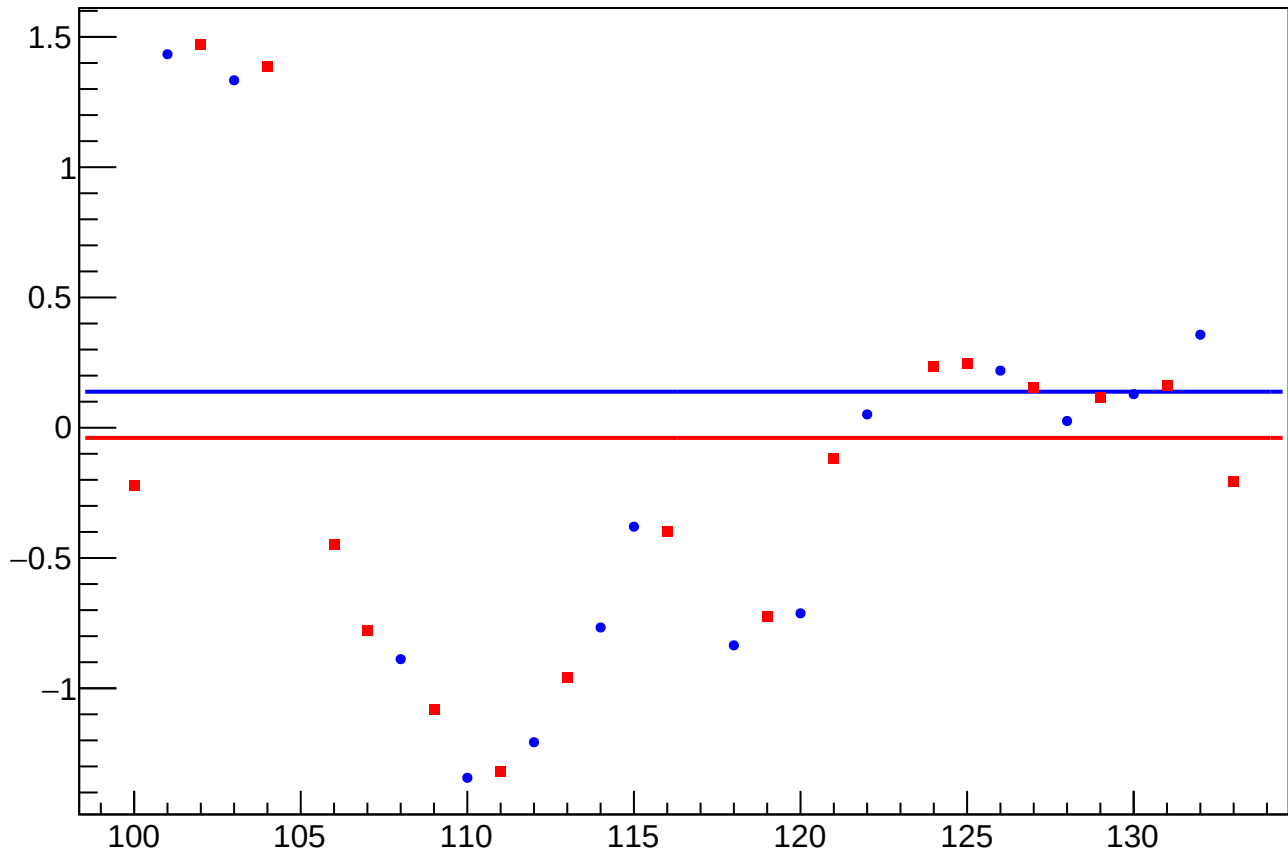
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 686205.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02X\_mean vs Slug



Right In: 0.138+/-0.000  $\chi^2/\text{NDF}$ : 17514788674.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.039+/-0.000  $\chi^2/\text{NDF}$ : 22154299444.3/16

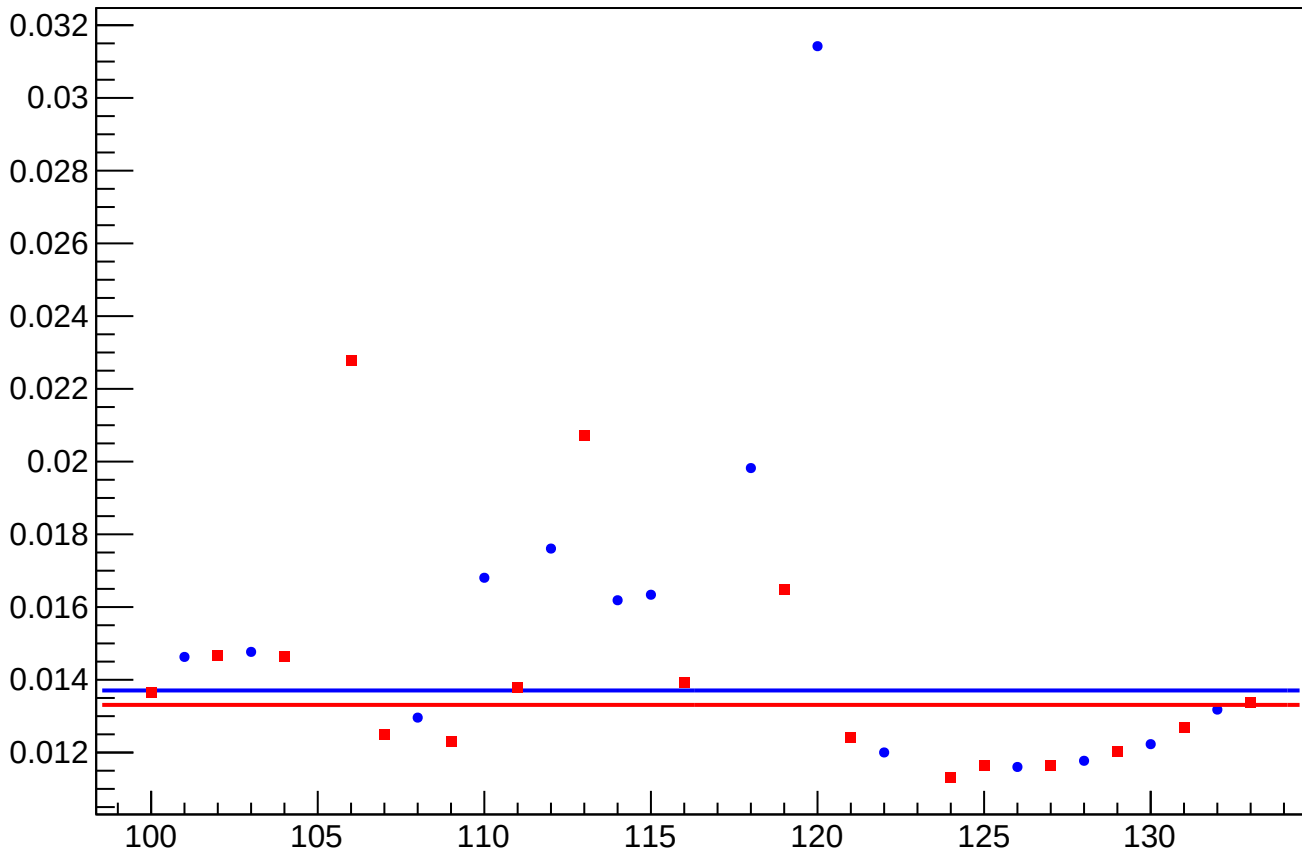
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.040+/-0.000  $\chi^2/\text{NDF}$ : 40149410733.6/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02X\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 411148.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 280350.3/16

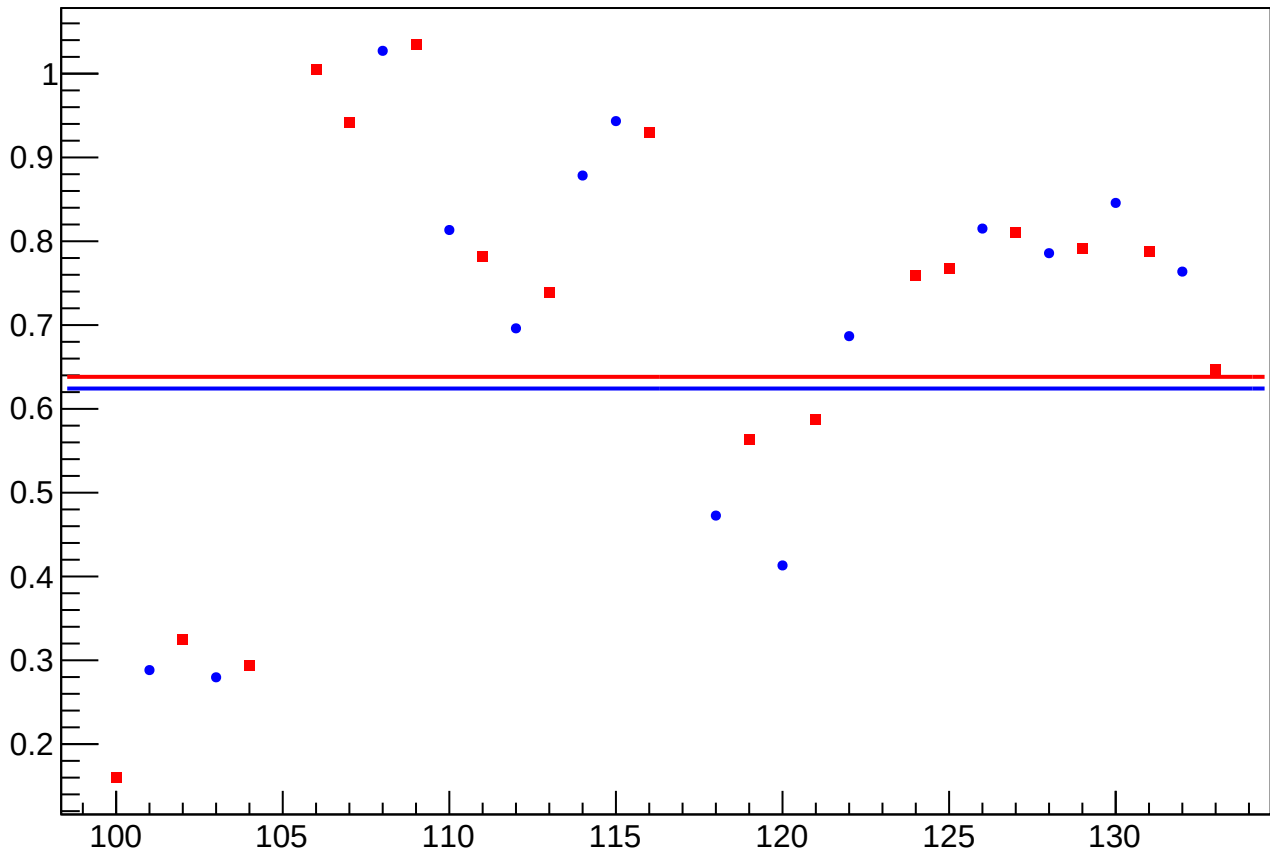
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 696313.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02Y\_mean vs Slug



Right In: 0.624+/-0.000  $\chi^2/\text{NDF}$ : 5487287897.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.638+/-0.000  $\chi^2/\text{NDF}$ : 5903240479.7/16

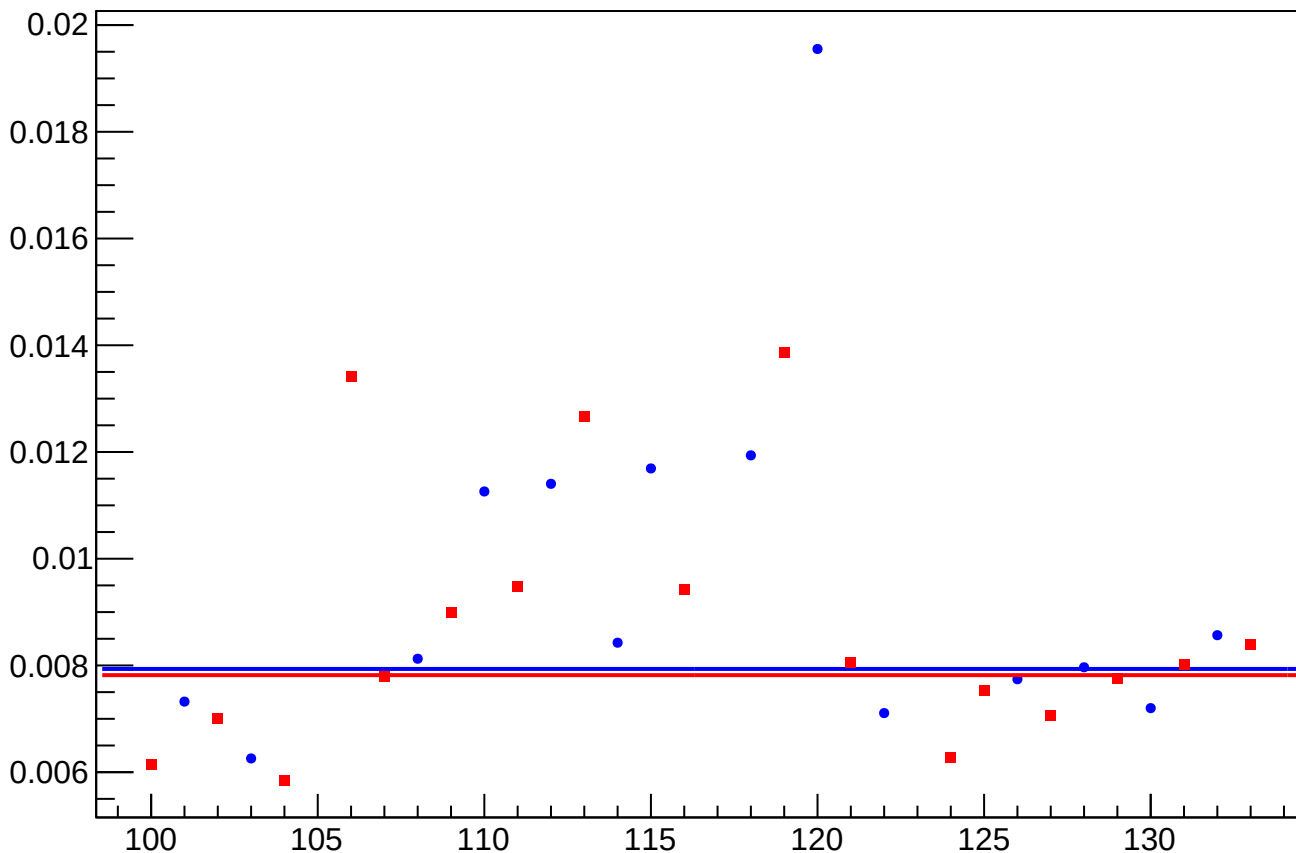
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.632+/-0.000  $\chi^2/\text{NDF}$ : 11399041805.6/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02Y\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 573868.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 582598.0/16

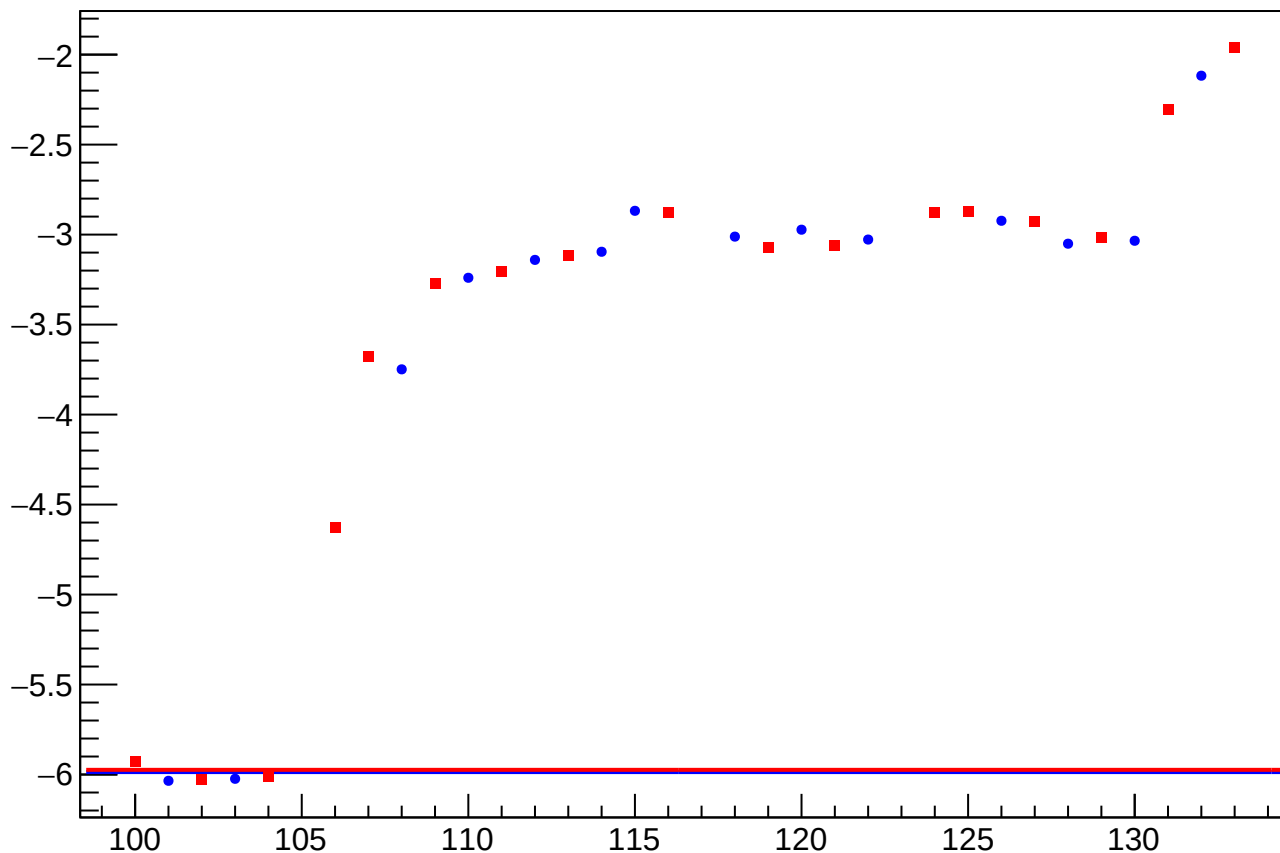
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 1157646.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03X\_mean vs Slug



Right In: -5.986+/-0.000  $\chi^2/\text{NDF}$ : 6107661984.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.974+/-0.000  $\chi^2/\text{NDF}$ : 5748216152.6/16

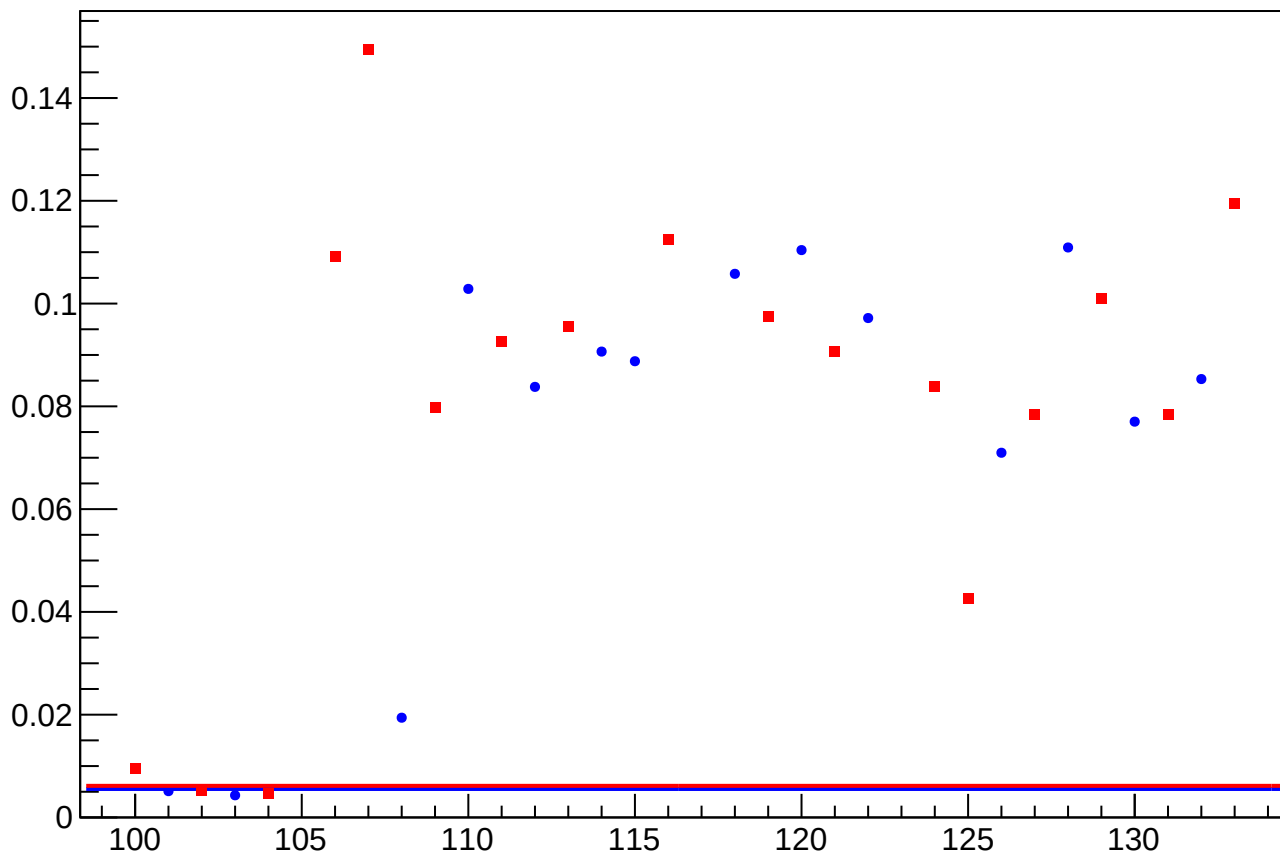
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.981+/-0.000  $\chi^2/\text{NDF}$ : 11859480576.4/13

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03X\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 7177940.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 8255864.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

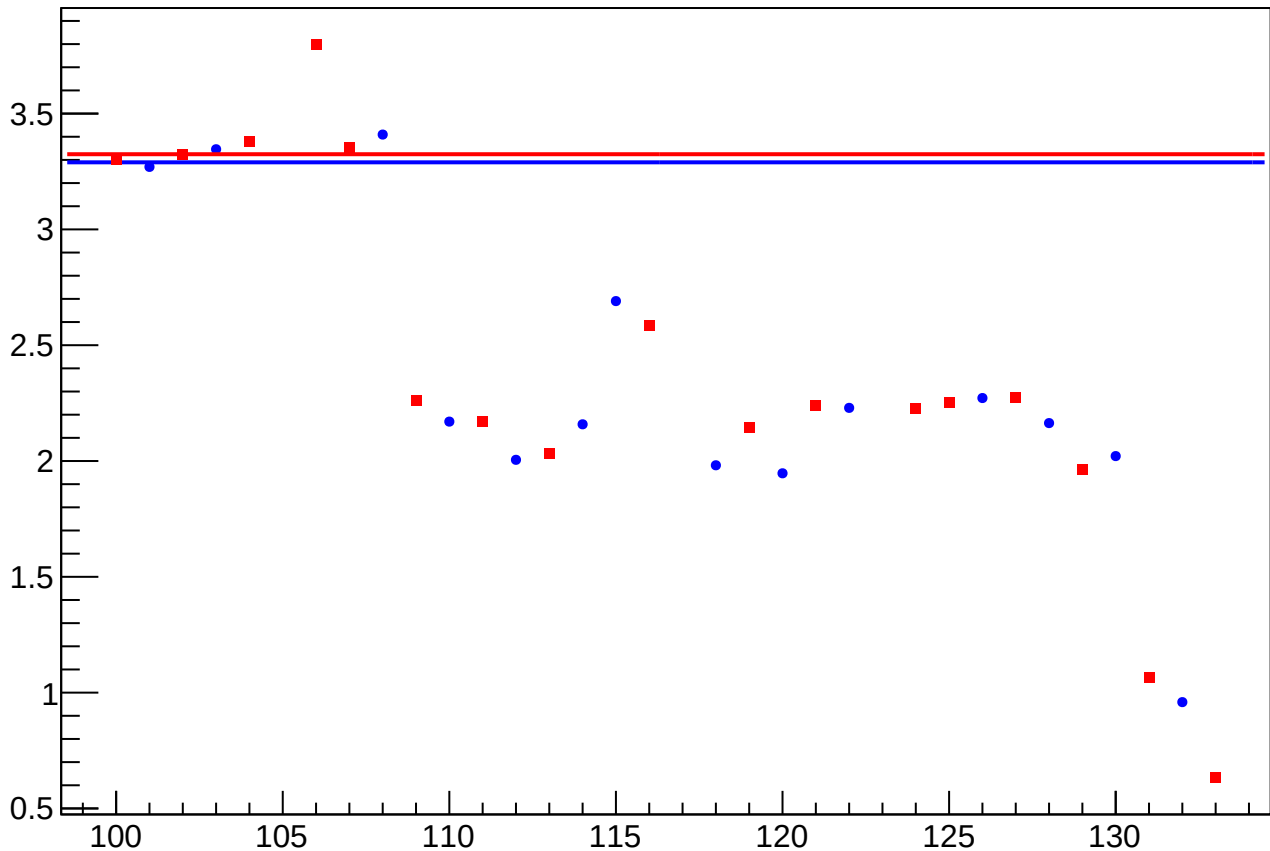
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 15450937.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l03Y\_mean vs Slug



Right In: 3.290+/-0.000  $\chi^2/\text{NDF}$ : 934627801.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.325+/-0.000  $\chi^2/\text{NDF}$ : 1060380985.0/16

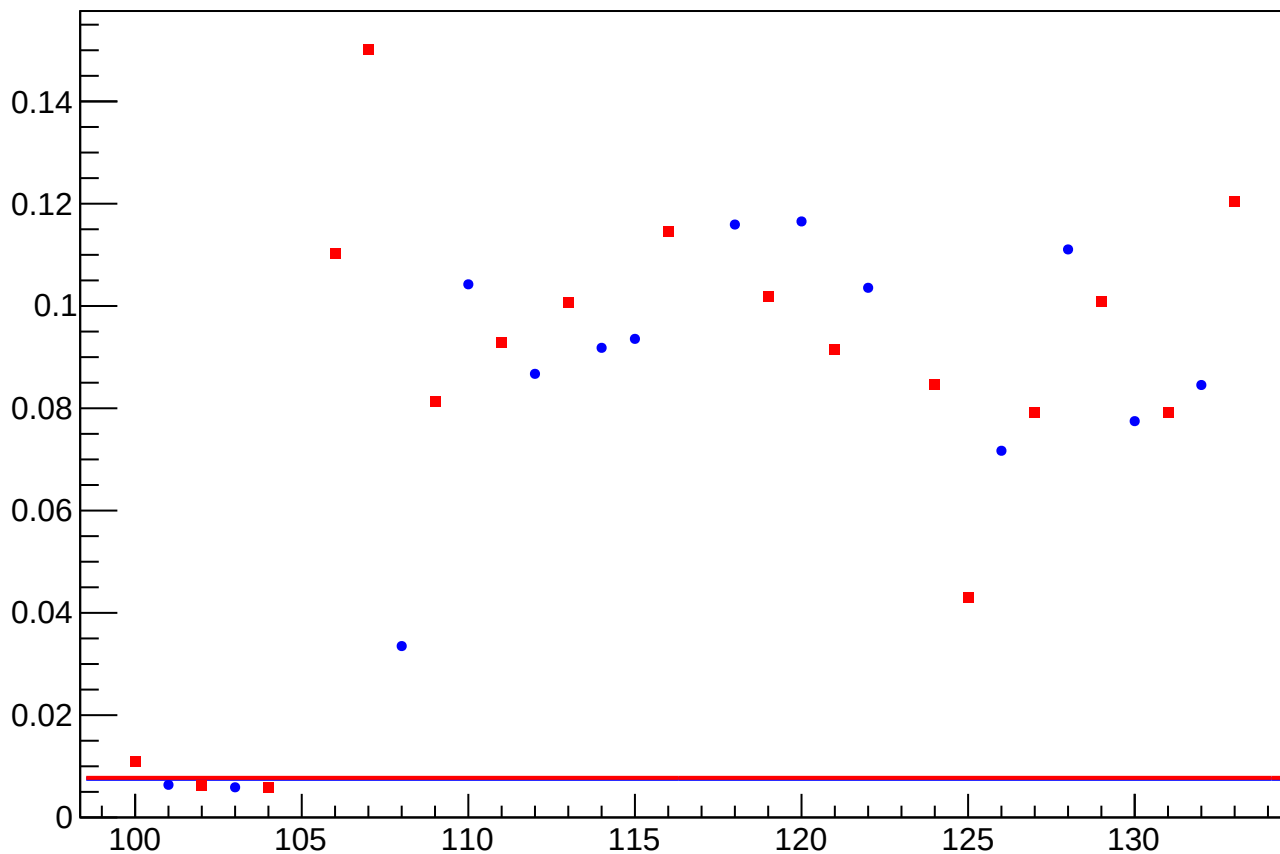
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.307+/-0.000  $\chi^2/\text{NDF}$ : 2013226091.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03Y\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 7034934.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 8003121.7/16

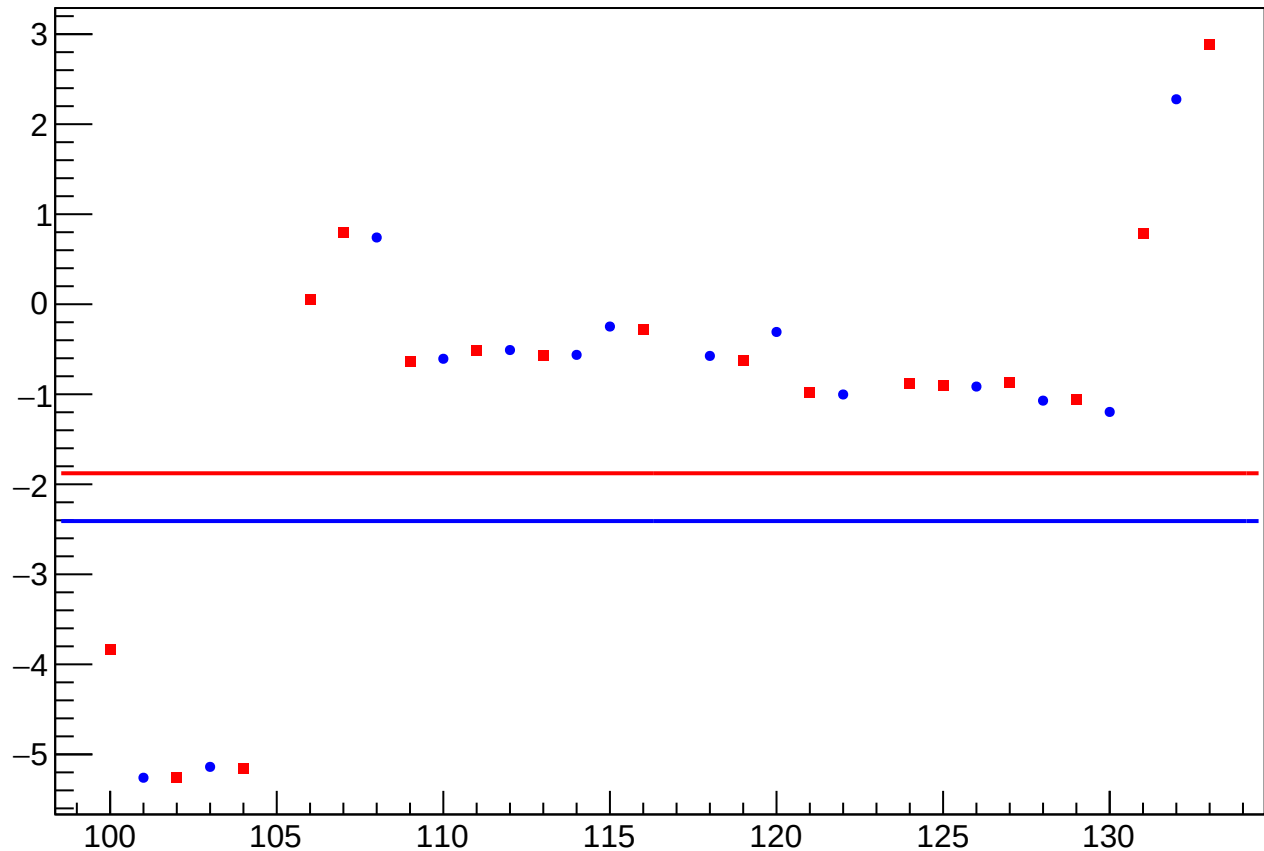
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 15039167.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04X\_mean vs Slug



Right In: -2.409+/-0.000  $\chi^2/\text{NDF}$ : 126579395475.0/13

+ 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

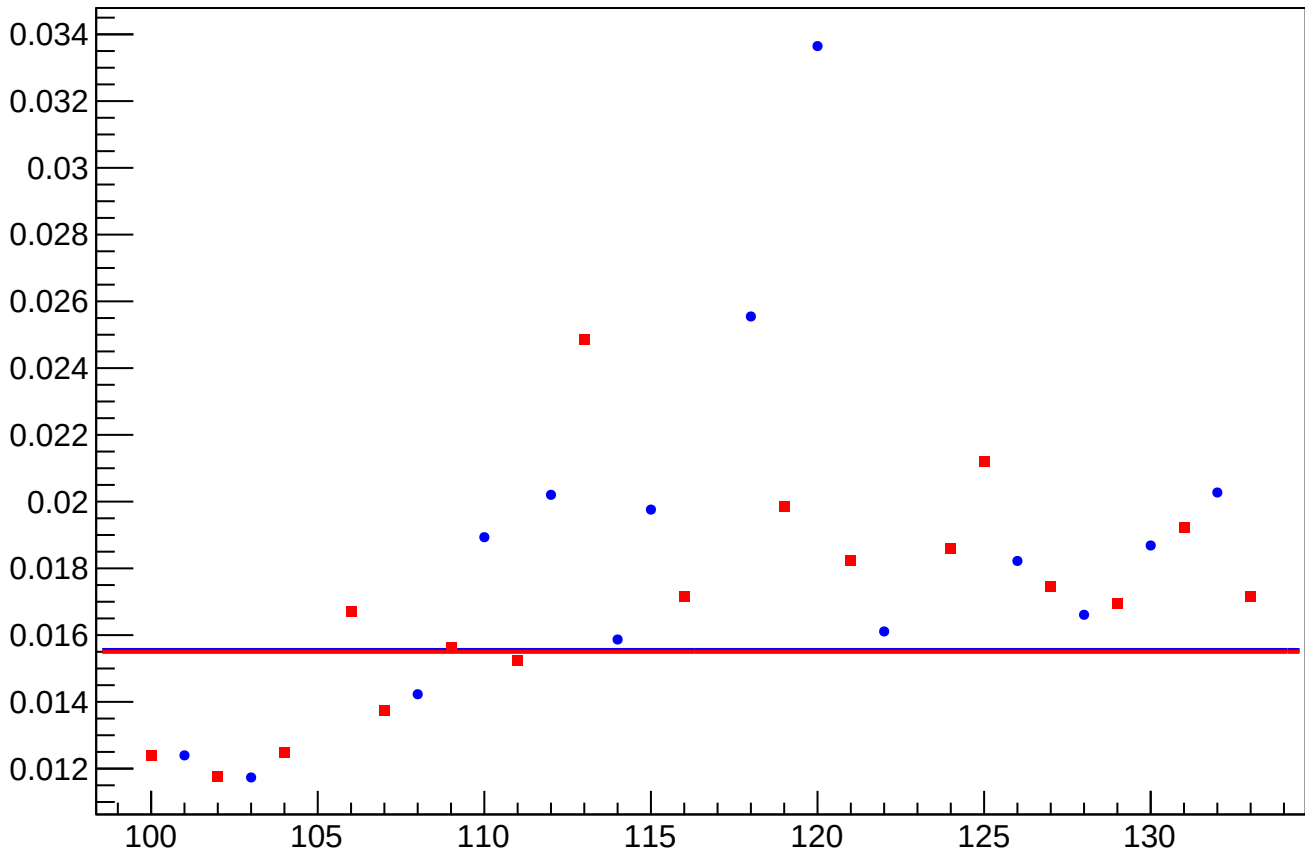
Right Out: -1.878+/-0.000  $\chi^2/\text{NDF}$ : 156728563232.3/16

All: -2.118+/-0.000  $\chi^2/\text{NDF}$ : 286392705441.5

- 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\_bpm0l04X\_rms vs Slug



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 658463.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 469151.2/16

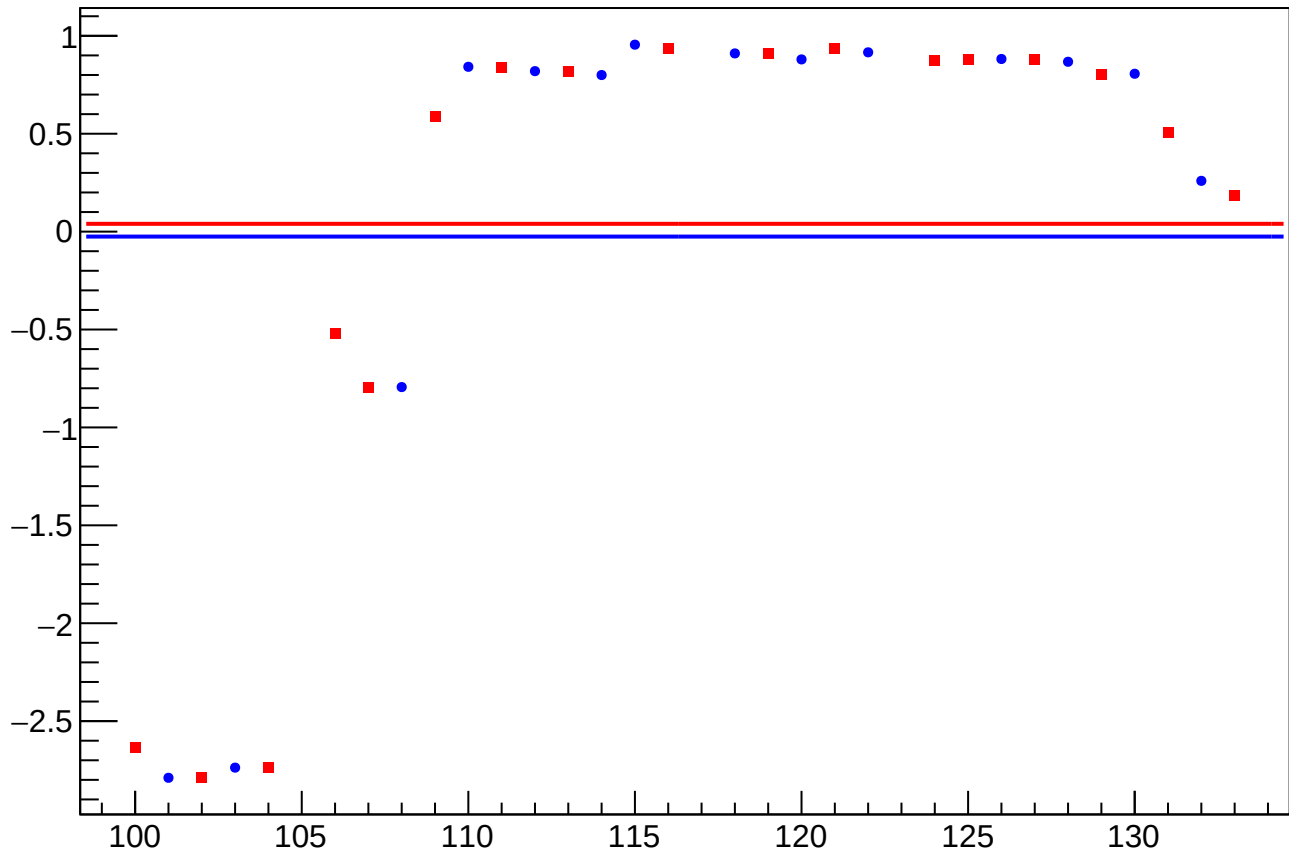
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 1127683.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04Y\_mean vs Slug



Right In: -0.025+/-0.000  $\chi^2/\text{NDF}$ : 843928100339.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.040+/-0.000  $\chi^2/\text{NDF}$ : 931578672283.4/16

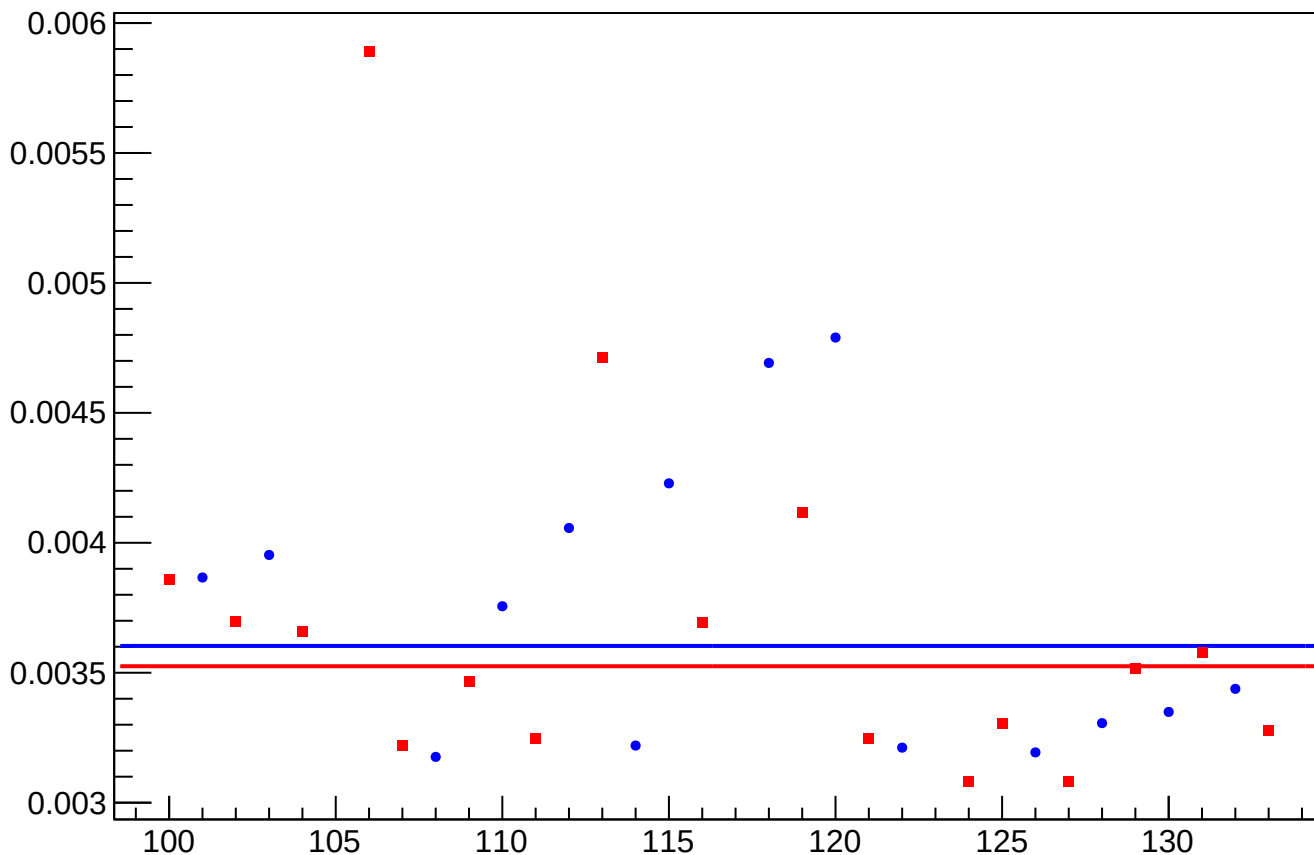
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 1776492900054.

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04Y\_rms vs Slug



Right In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 179053.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 219741.2/16

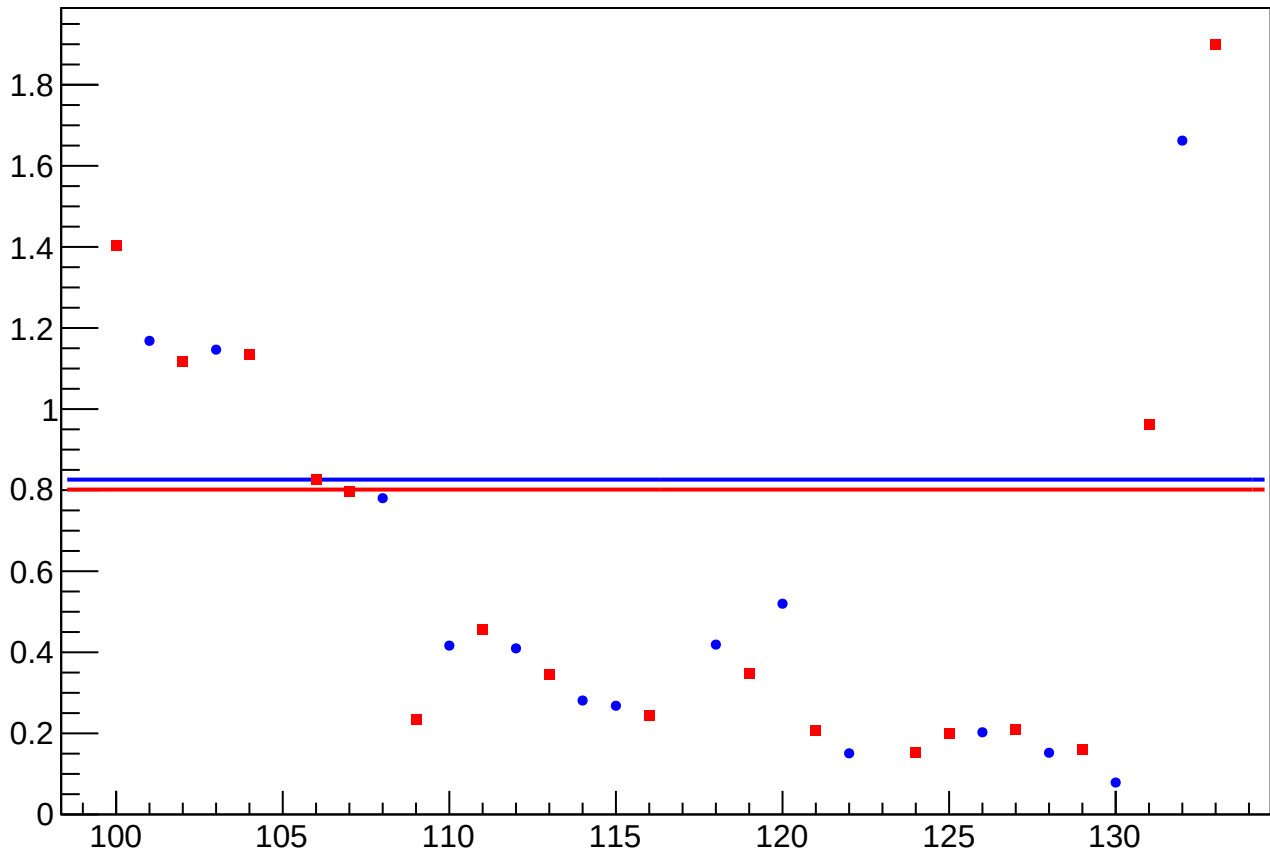
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 401630.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l05X\_mean vs Slug



Right In: 0.826+/-0.000  $\chi^2/\text{NDF}$ : 28148364471.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.801+/-0.000  $\chi^2/\text{NDF}$ : 33240169218.1/16

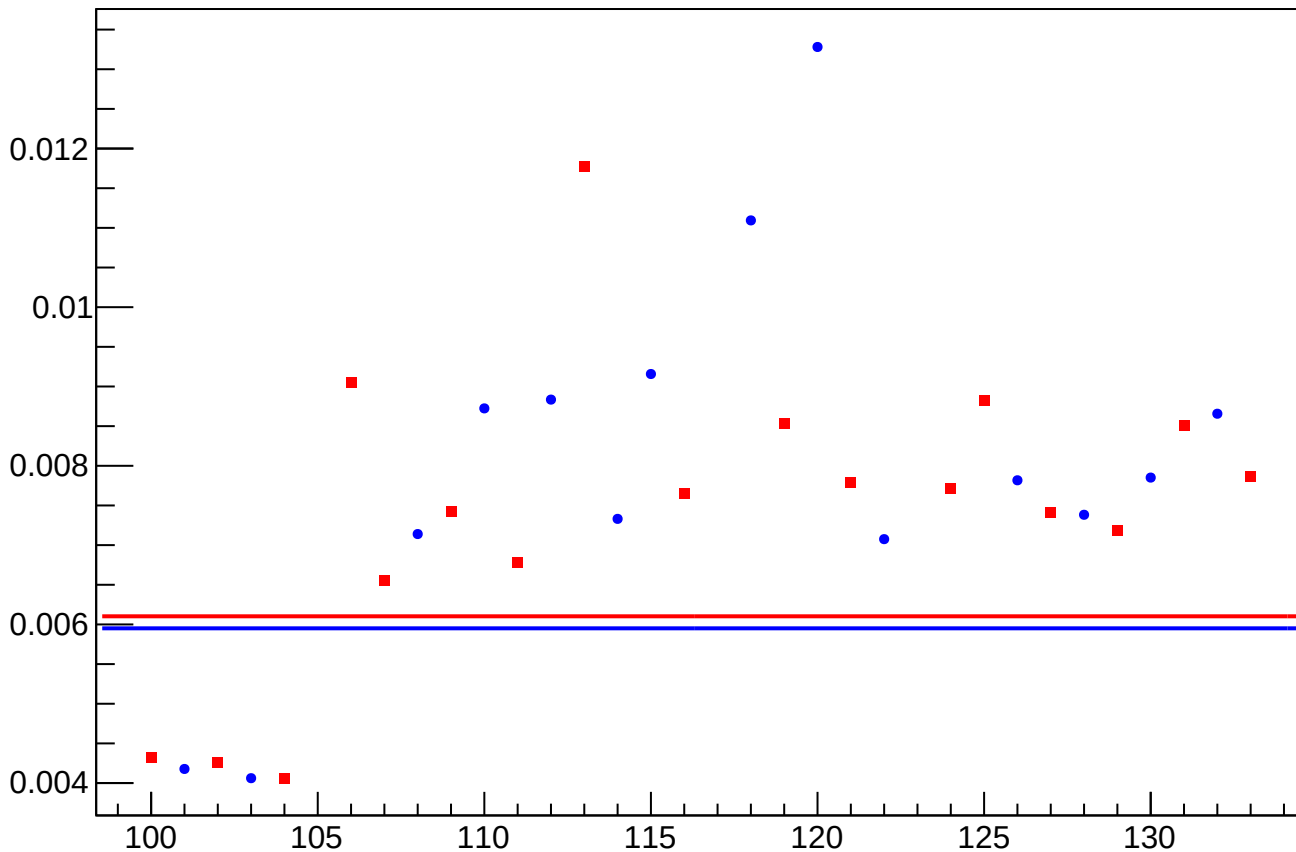
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.813+/-0.000  $\chi^2/\text{NDF}$ : 61430093511.7/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l05X\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1258675.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1098214.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

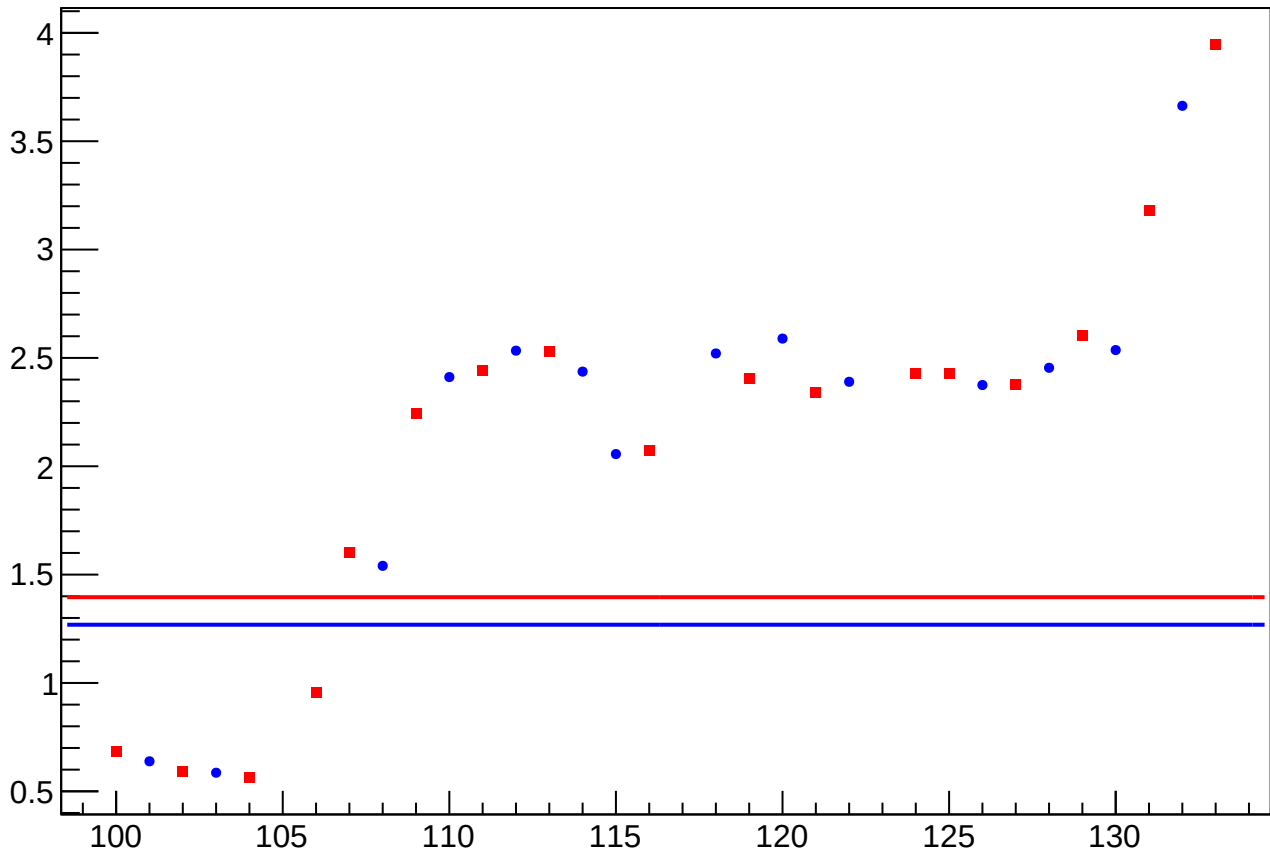
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2360044.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l05Y\_mean vs Slug



Right In: 1.269+/-0.000  $\chi^2/\text{NDF}$ : 118124684229.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.396+/-0.000  $\chi^2/\text{NDF}$ : 162596979359.0/16

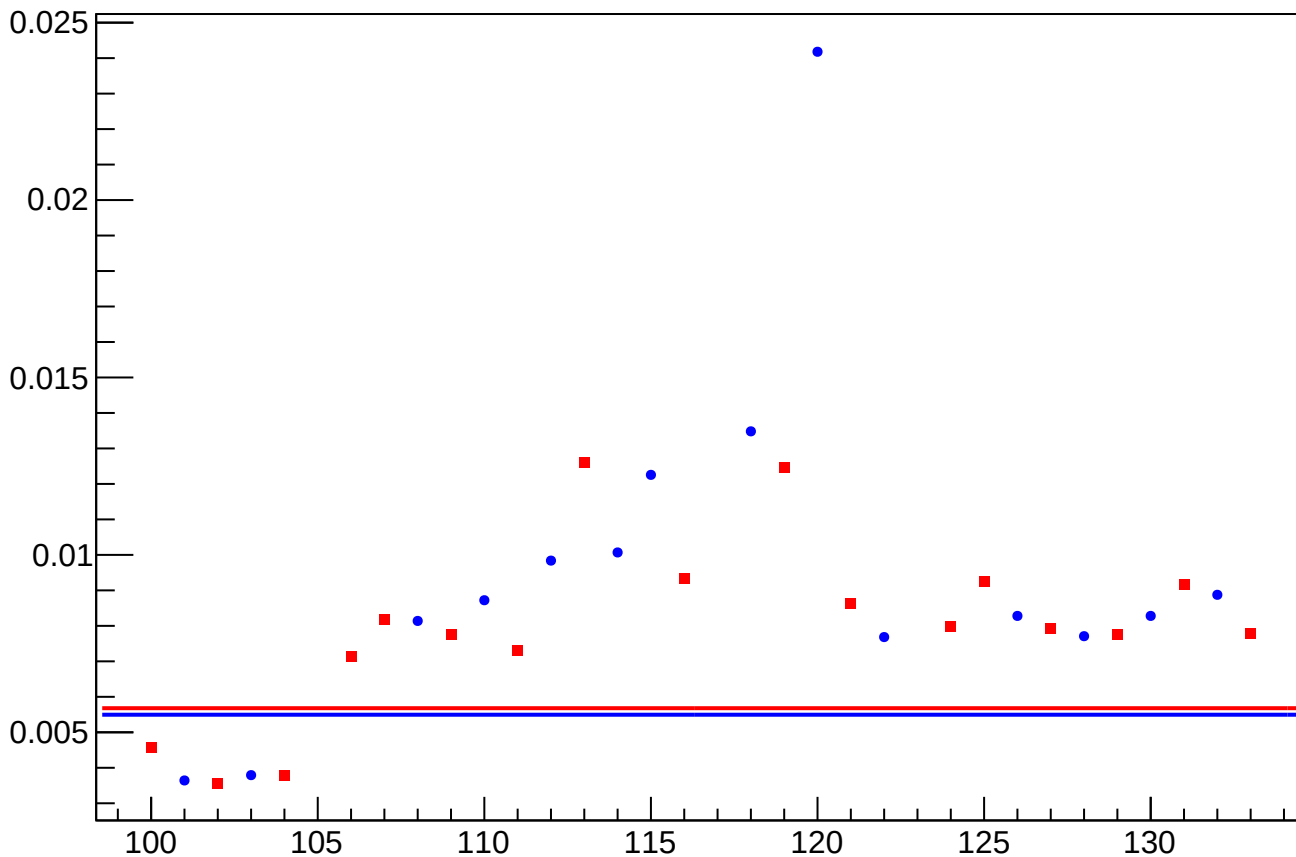
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.336+/-0.000  $\chi^2/\text{NDF}$ : 281881211475.9

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l05Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1973841.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1842338.1/16

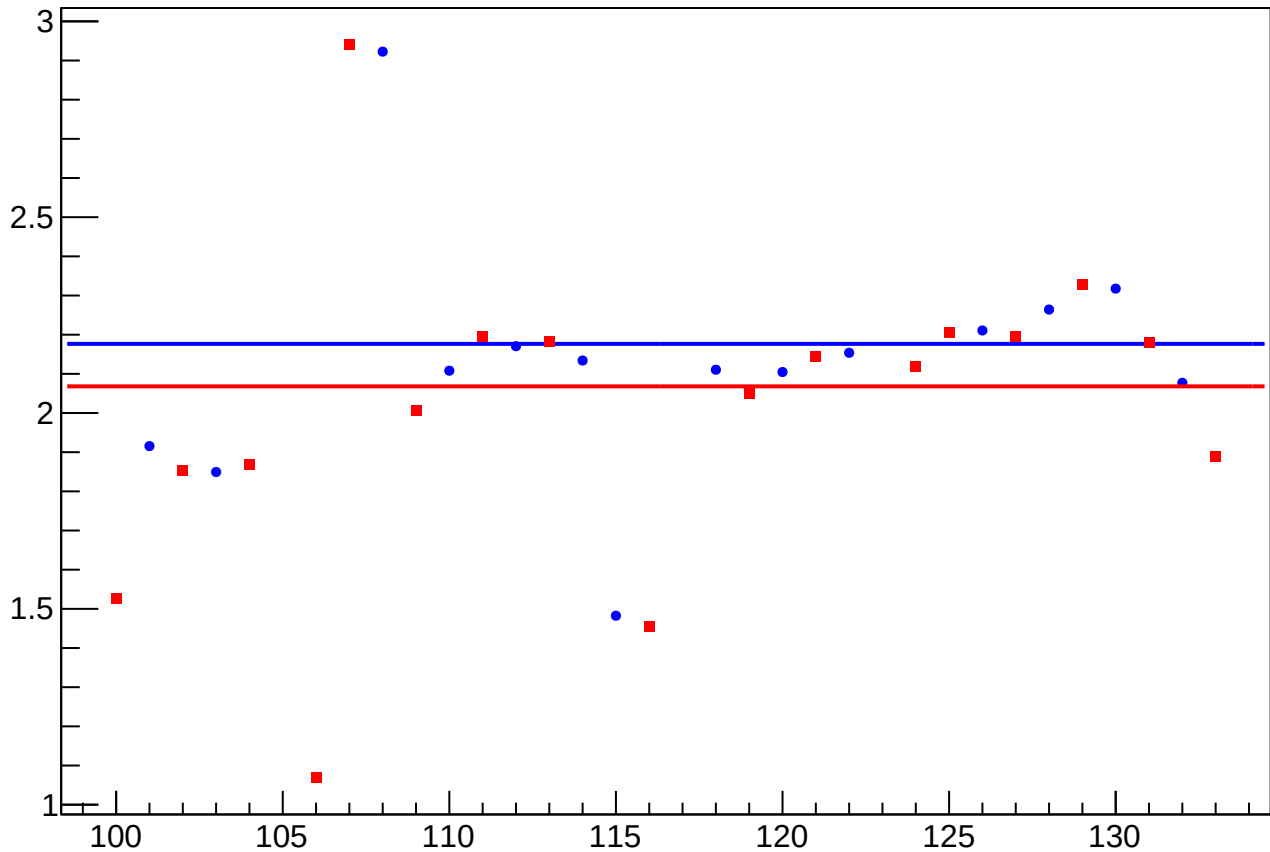
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 3821044.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06X\_mean vs Slug



Right In: 2.177 $\pm$ 0.000  $\chi^2$ /NDF: 9560991149.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.068 $\pm$ 0.000  $\chi^2$ /NDF: 14994569003.4/16

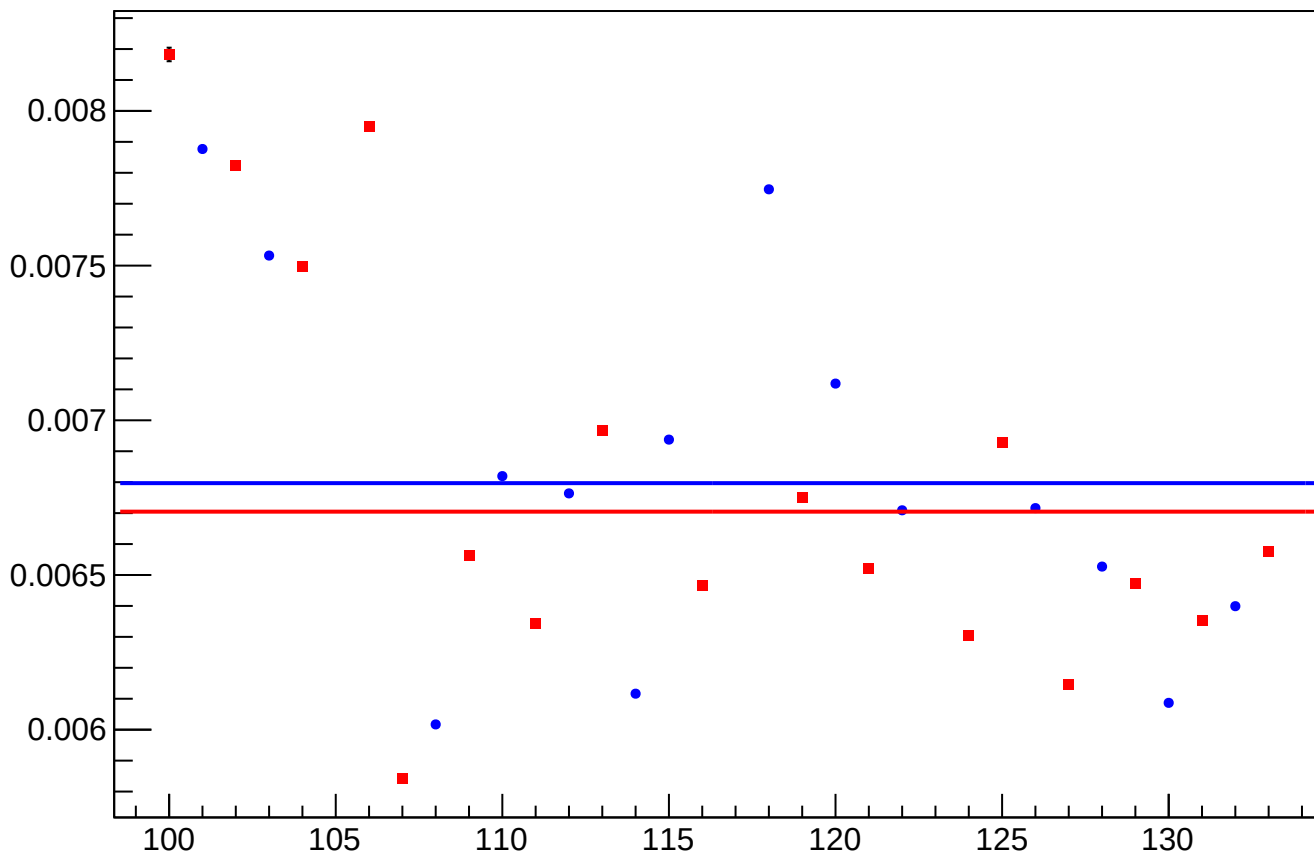
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.118 $\pm$ 0.000  $\chi^2$ /NDF: 25333223892.4/3

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l06X\_rms vs Slug



Right In: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 85677.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 84696.6/16

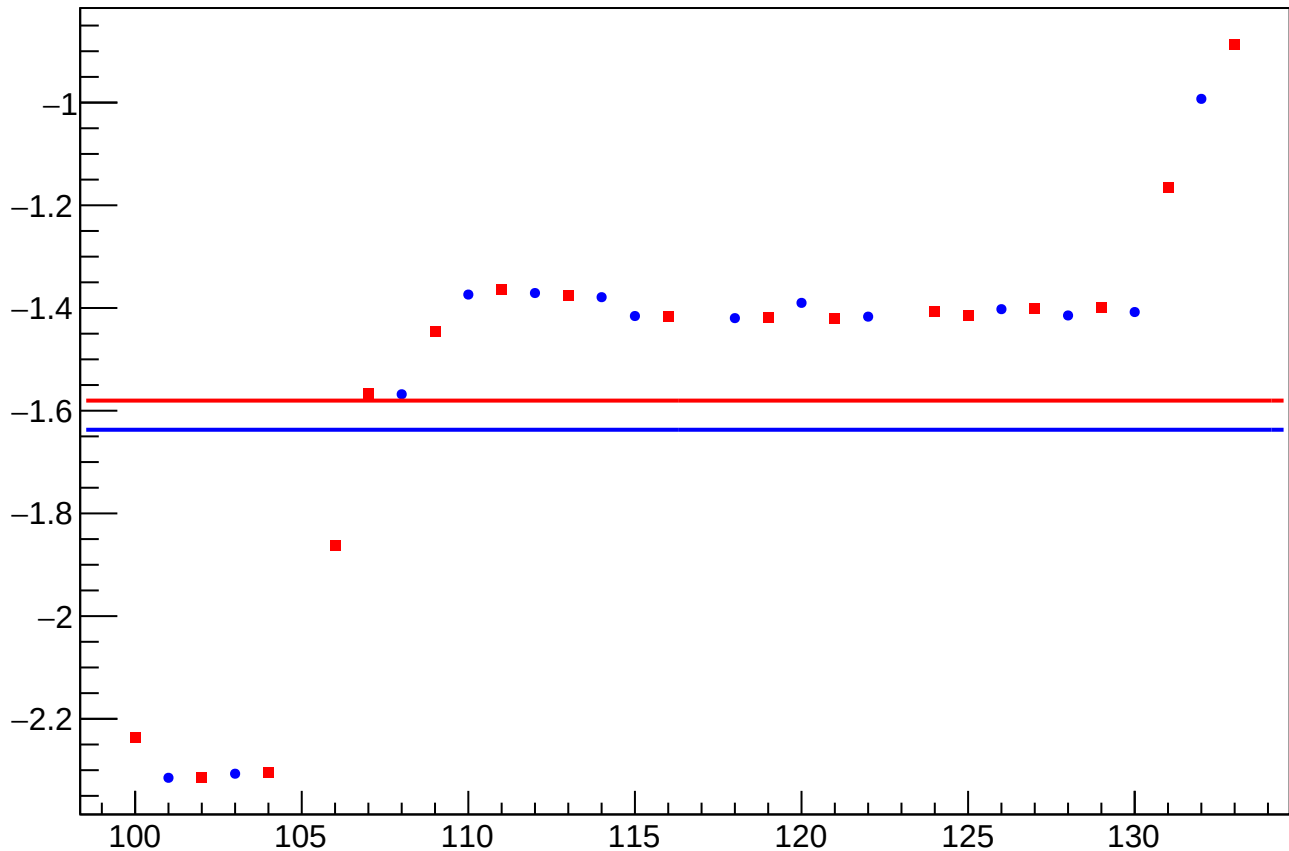
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 171496.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l06Y\_mean vs Slug



Right In: -1.637+/-0.000  $\chi^2/\text{NDF}$ : 141366821495.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -1.580+/-0.000  $\chi^2/\text{NDF}$ : 165333620935.8/16

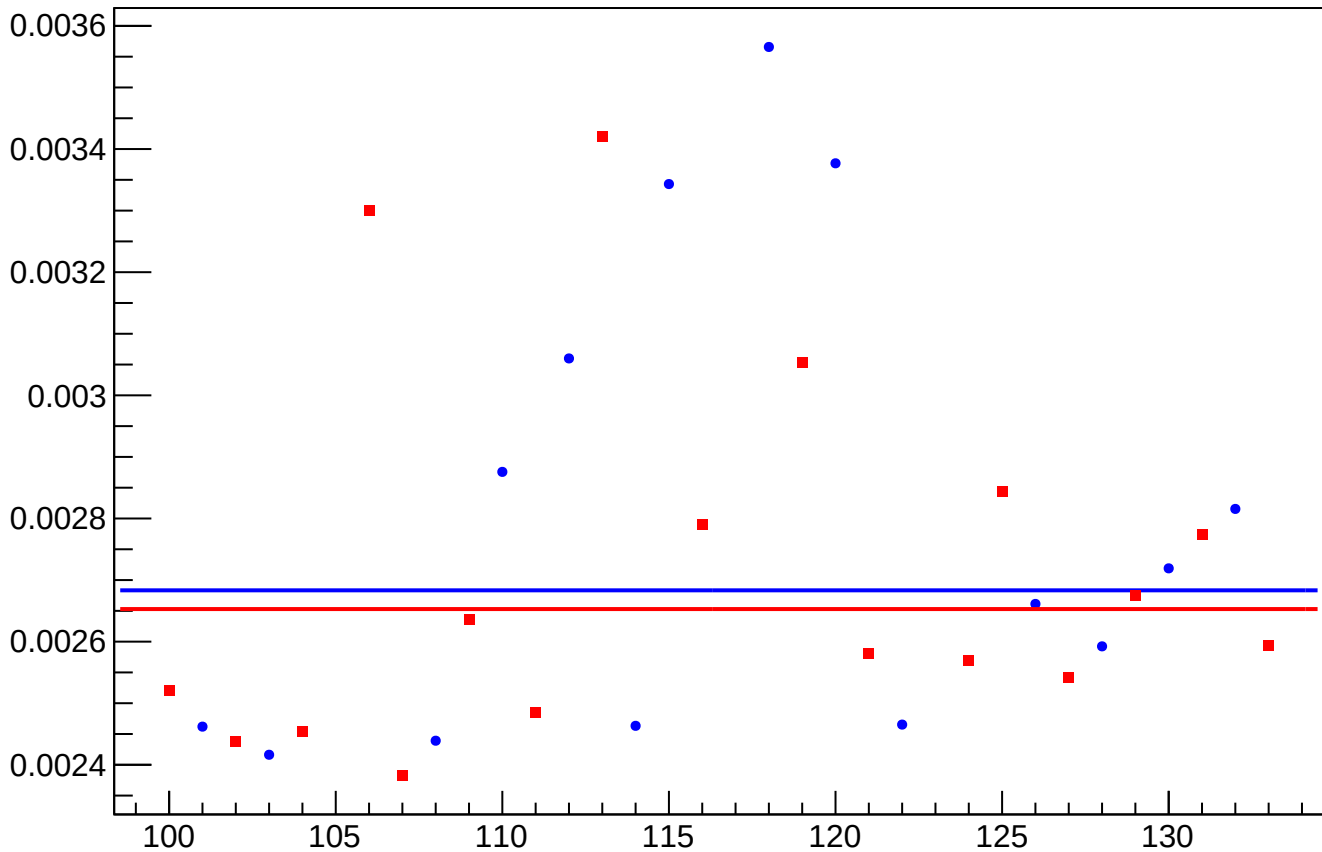
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.606+/-0.000  $\chi^2/\text{NDF}$ : 308036342635.9

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06Y\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 153777.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 115541.3/16

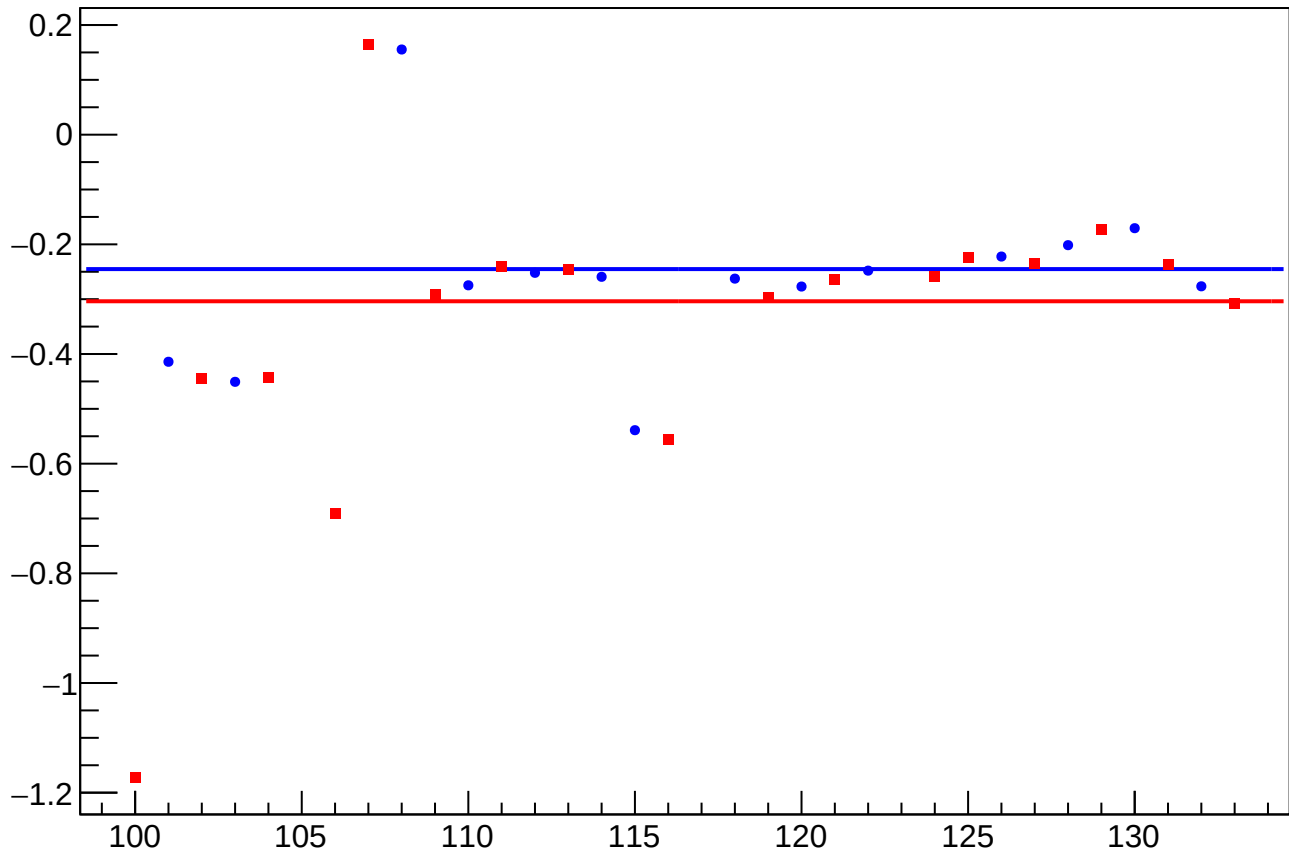
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 270085.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07X\_mean vs Slug



Right In: -0.245+/-0.000  $\chi^2/\text{NDF}$ : 992569719.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.304+/-0.000  $\chi^2/\text{NDF}$ : 1712992859.9/16

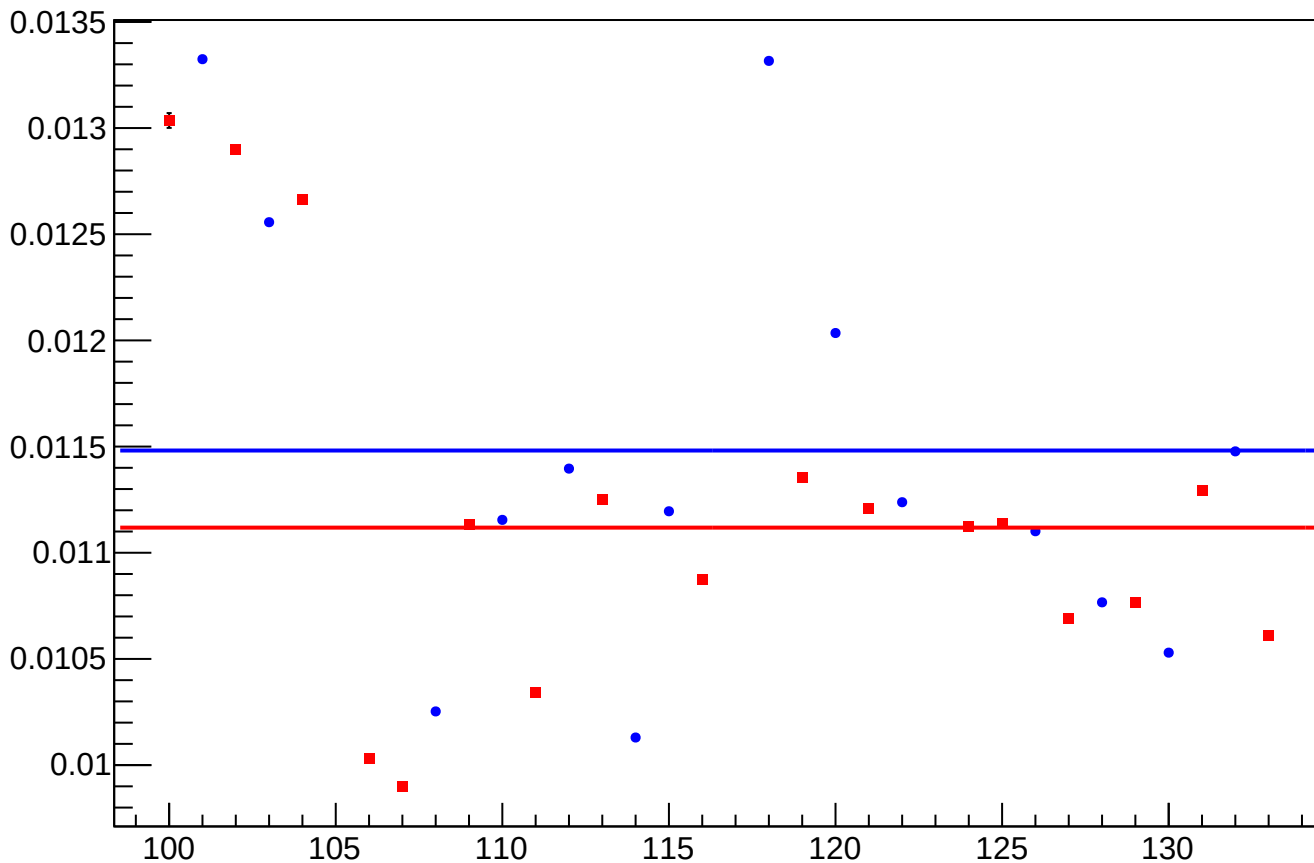
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.277+/-0.000  $\chi^2/\text{NDF}$ : 2788137755.1/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 83584.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 66984.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

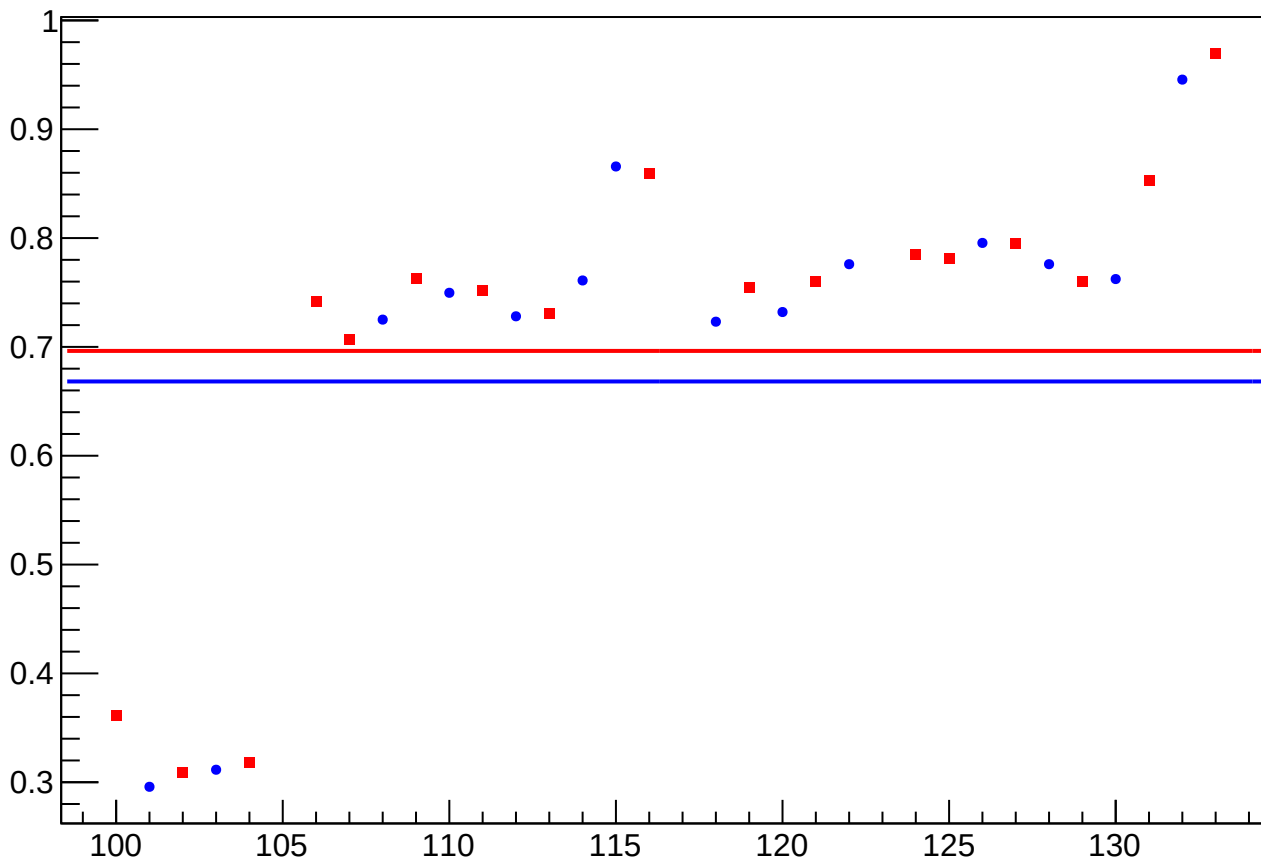
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 156890.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l07Y\_mean vs Slug



Right In: 0.668+/-0.000  $\chi^2/\text{NDF}$ : 40275924748.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.696+/-0.000  $\chi^2/\text{NDF}$ : 41985342628.8/16

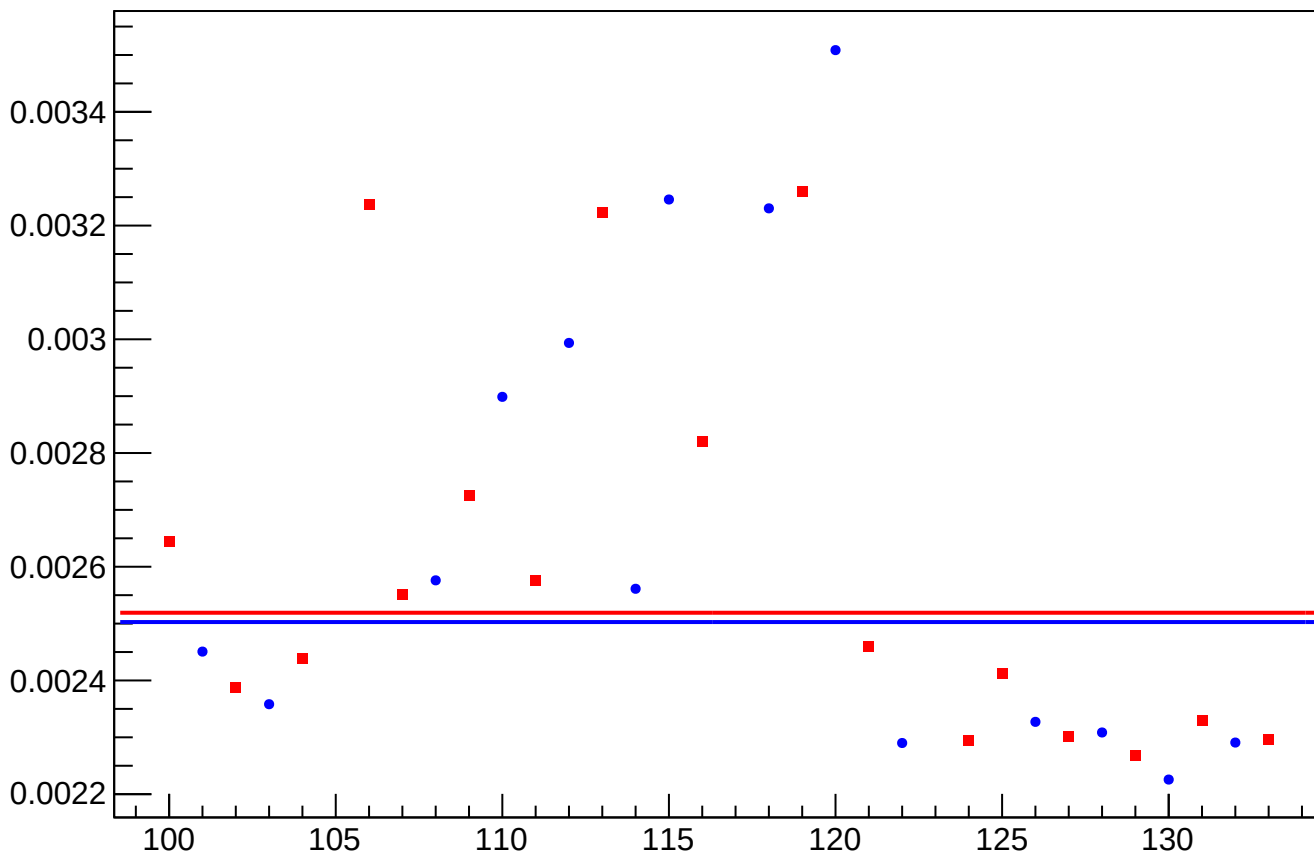
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.683+/-0.000  $\chi^2/\text{NDF}$ : 82633202084.8/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07Y\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 199384.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 170982.7/16

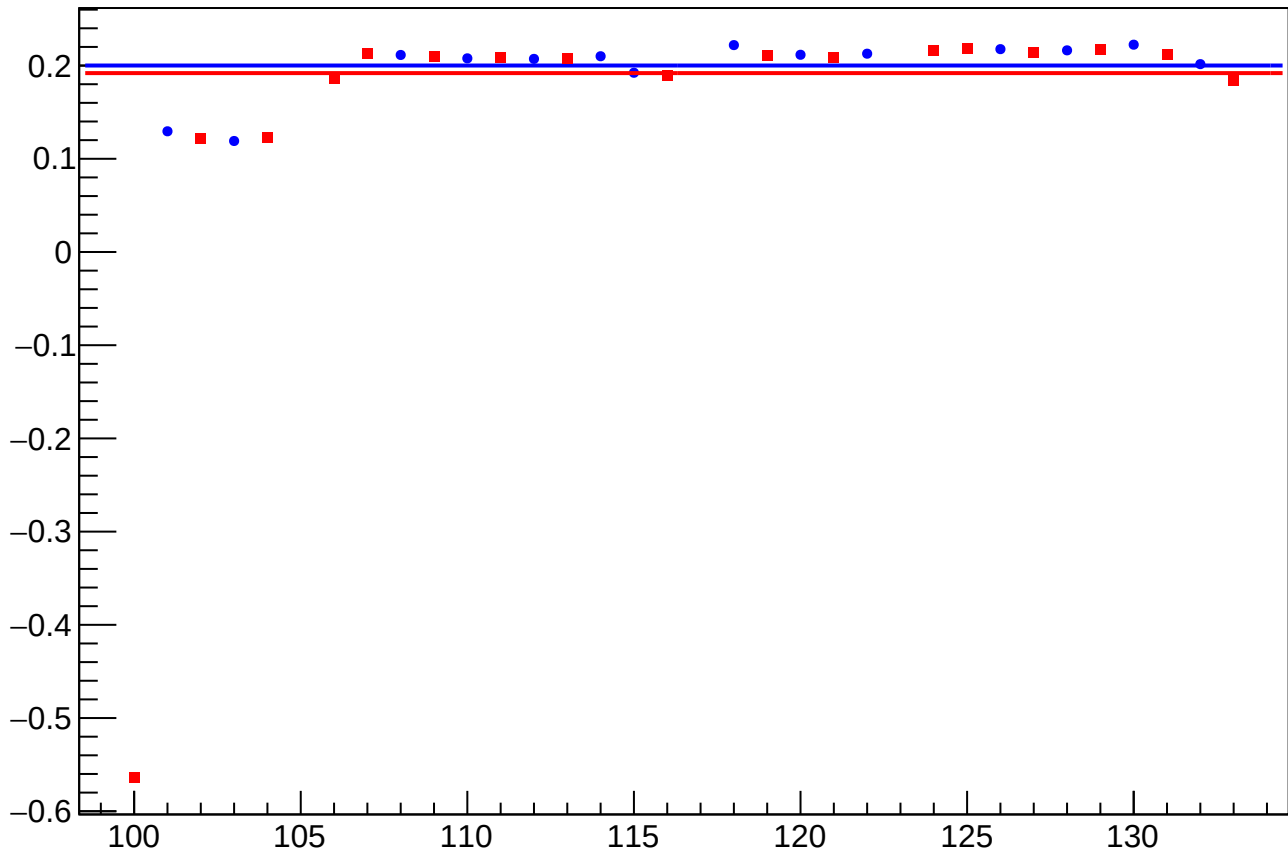
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 370620.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08X\_mean vs Slug



Right In: 0.200 $\pm$ 0.000  $\chi^2$ /NDF: 58785037.9/13

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

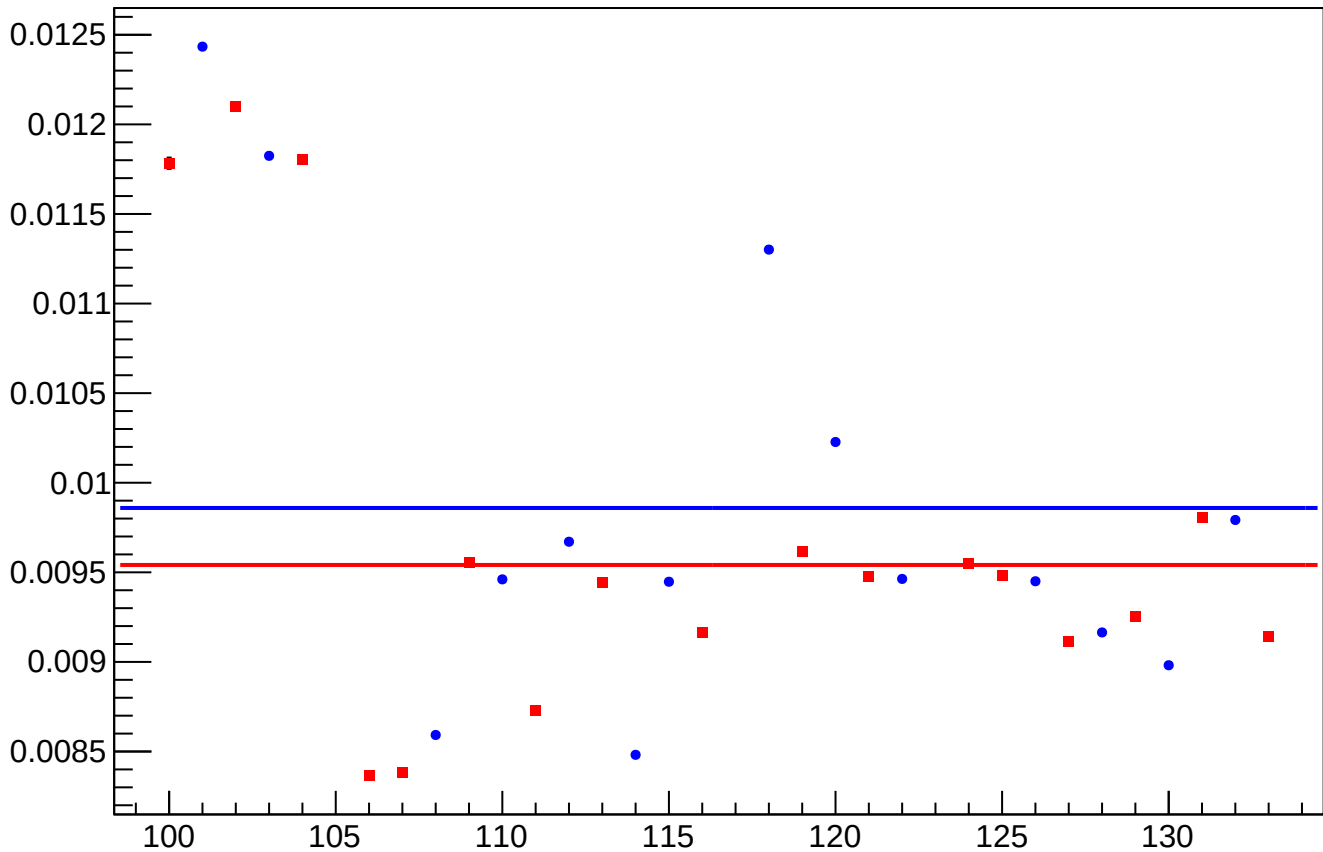
Right Out: 0.192 $\pm$ 0.000  $\chi^2$ /NDF: 348237219.9/16

All: 0.196 $\pm$ 0.000  $\chi^2$ /NDF: 409159992.7/30

- 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\_bpm0l08X\_rms vs Slug



Right In: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 147607.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 133246.1/16

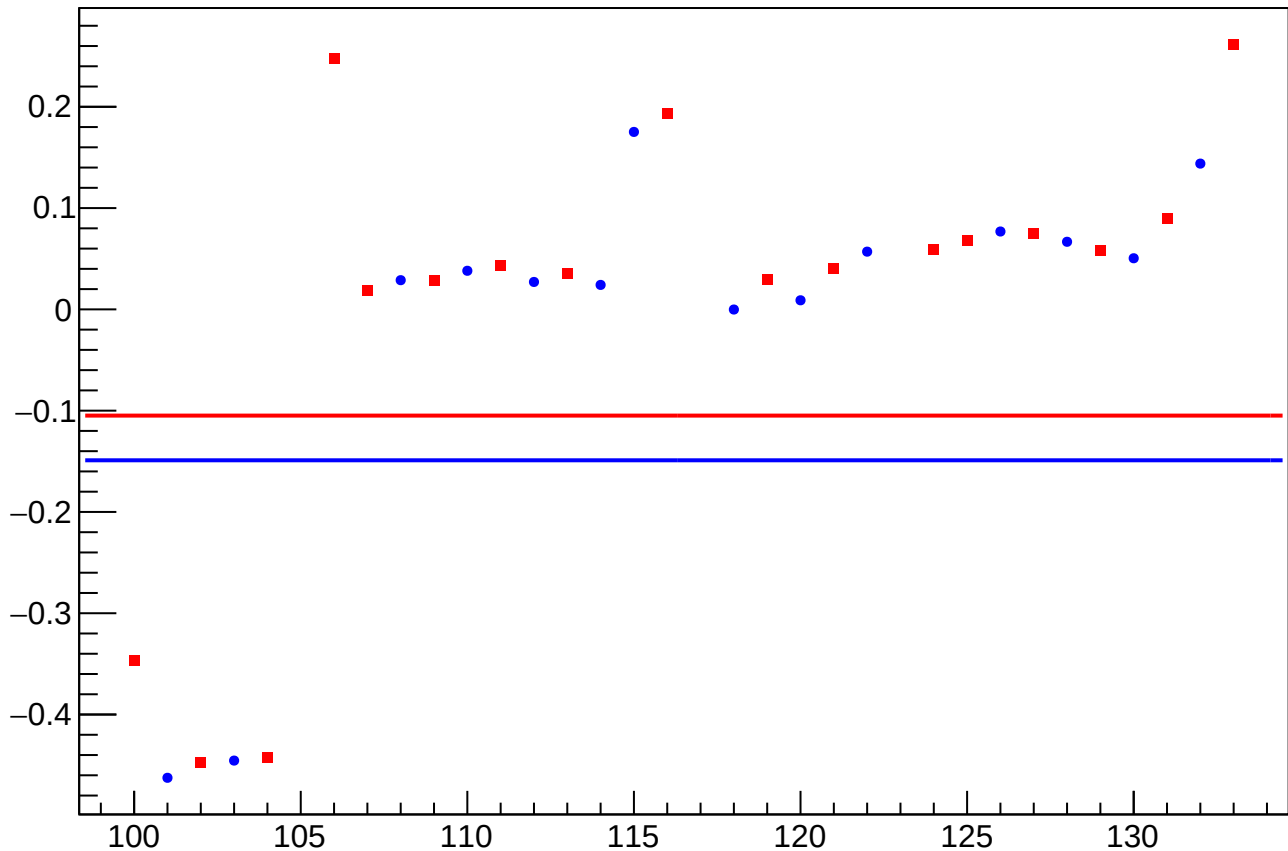
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 287381.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l08Y\_mean vs Slug



Right In: -0.149+/-0.000  $\chi^2/\text{NDF}$ : 14884413601.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.105+/-0.000  $\chi^2/\text{NDF}$ : 16593228624.2/16

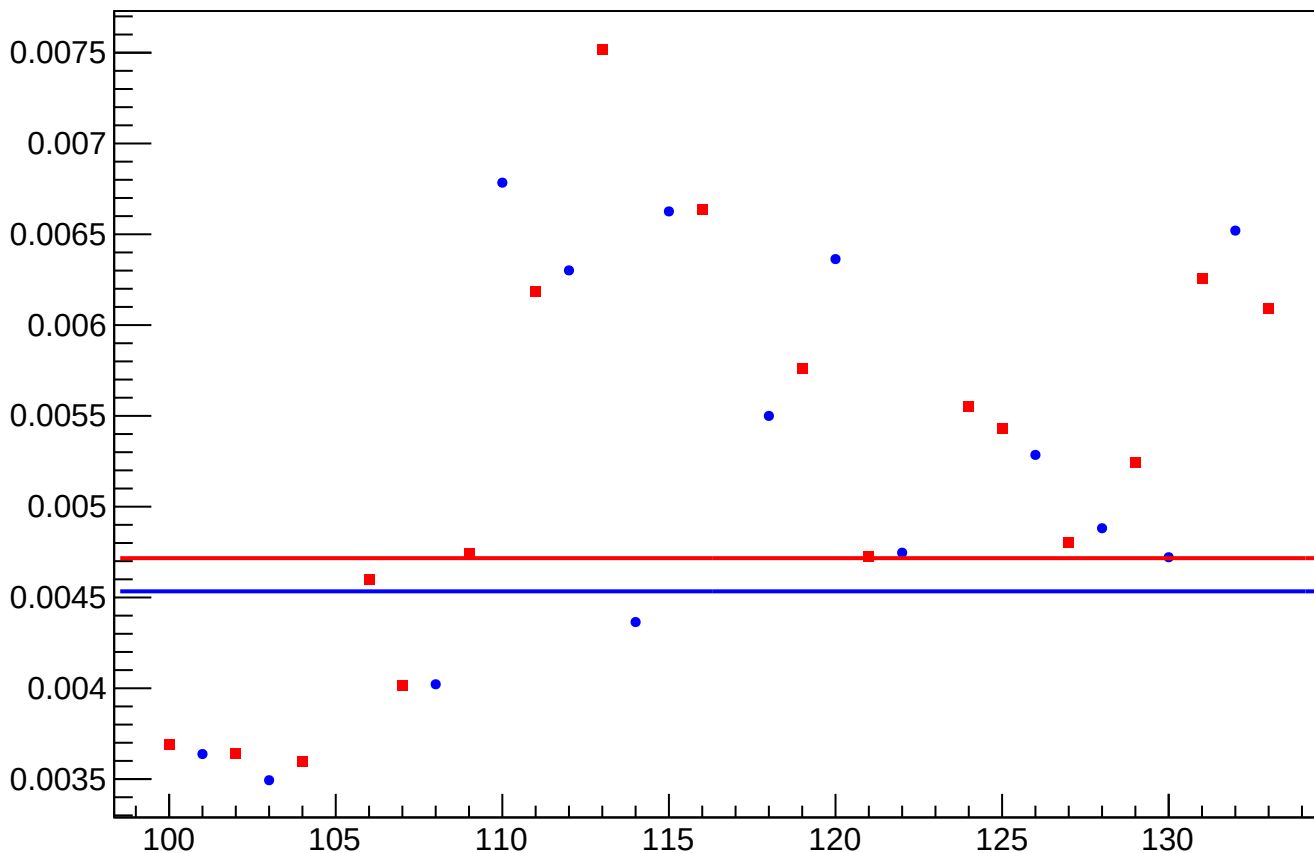
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.126+/-0.000  $\chi^2/\text{NDF}$ : 31723191974.2/27

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 514321.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 571073.5/16

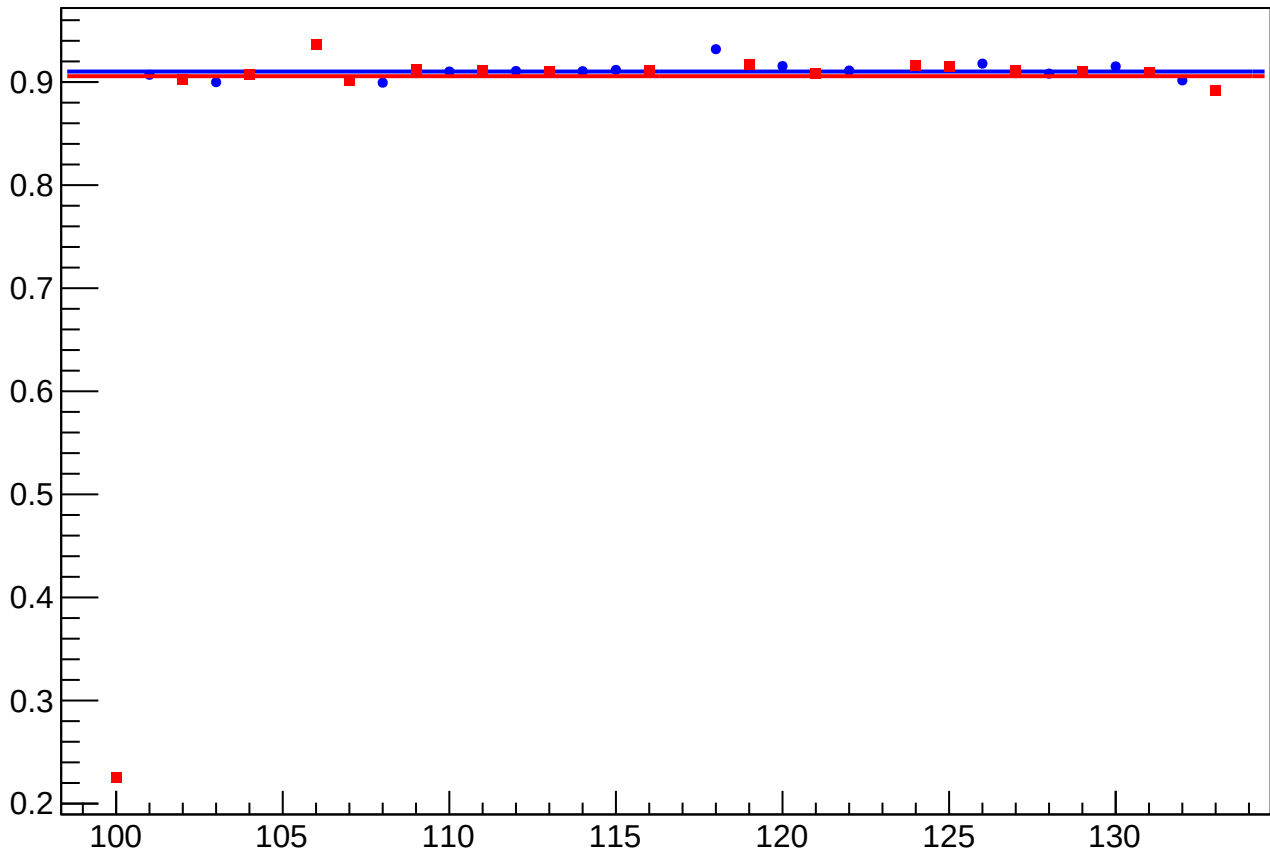
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1093820.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l09X\_mean vs Slug



Right In: 0.910 $\pm$ 0.000  $\chi^2$ /NDF: 3032756.5/13

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

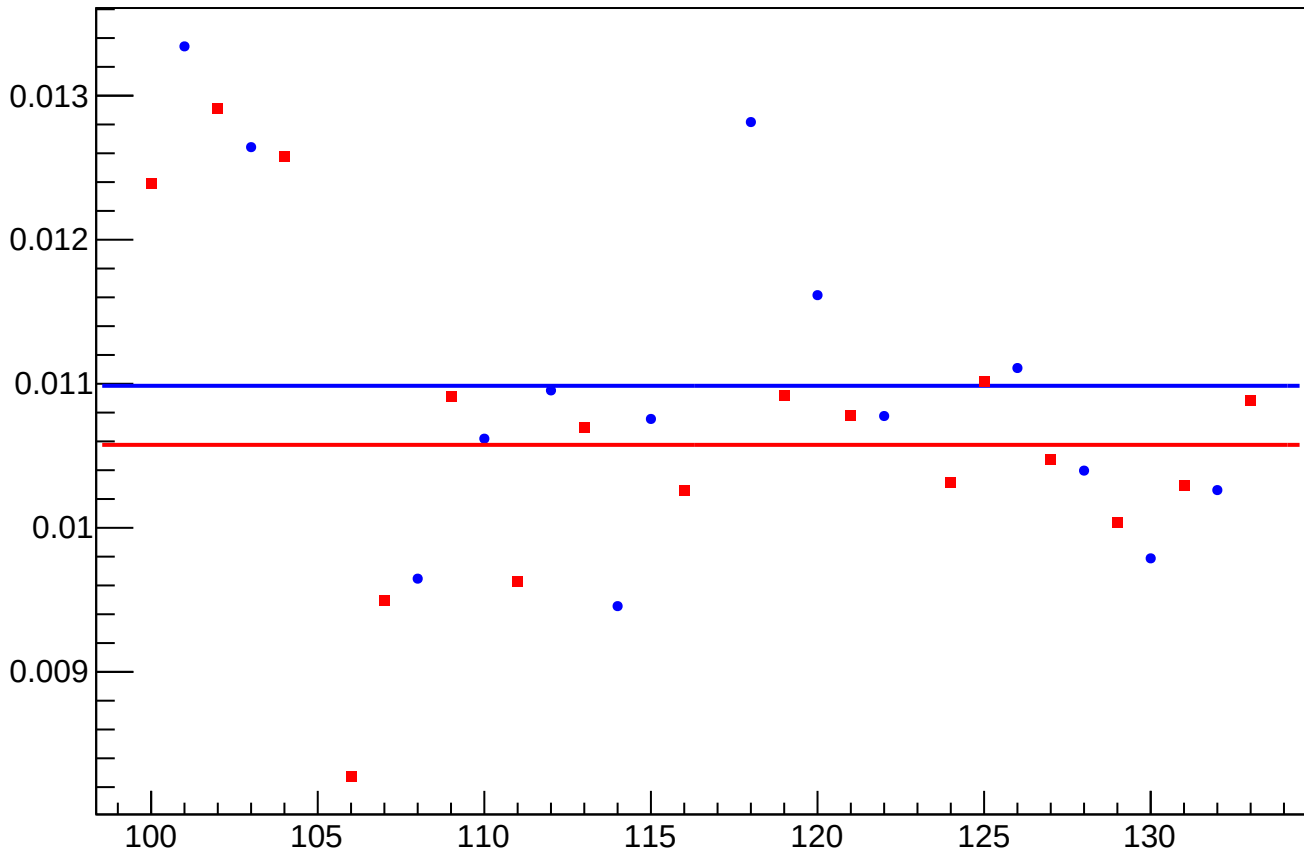
Right Out: 0.906 $\pm$ 0.000  $\chi^2$ /NDF: 219064575.5/16

All: 0.908 $\pm$ 0.000  $\chi^2$ /NDF: 222631301.5/30

- 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\_bpm0l09X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 127088.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 140385.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

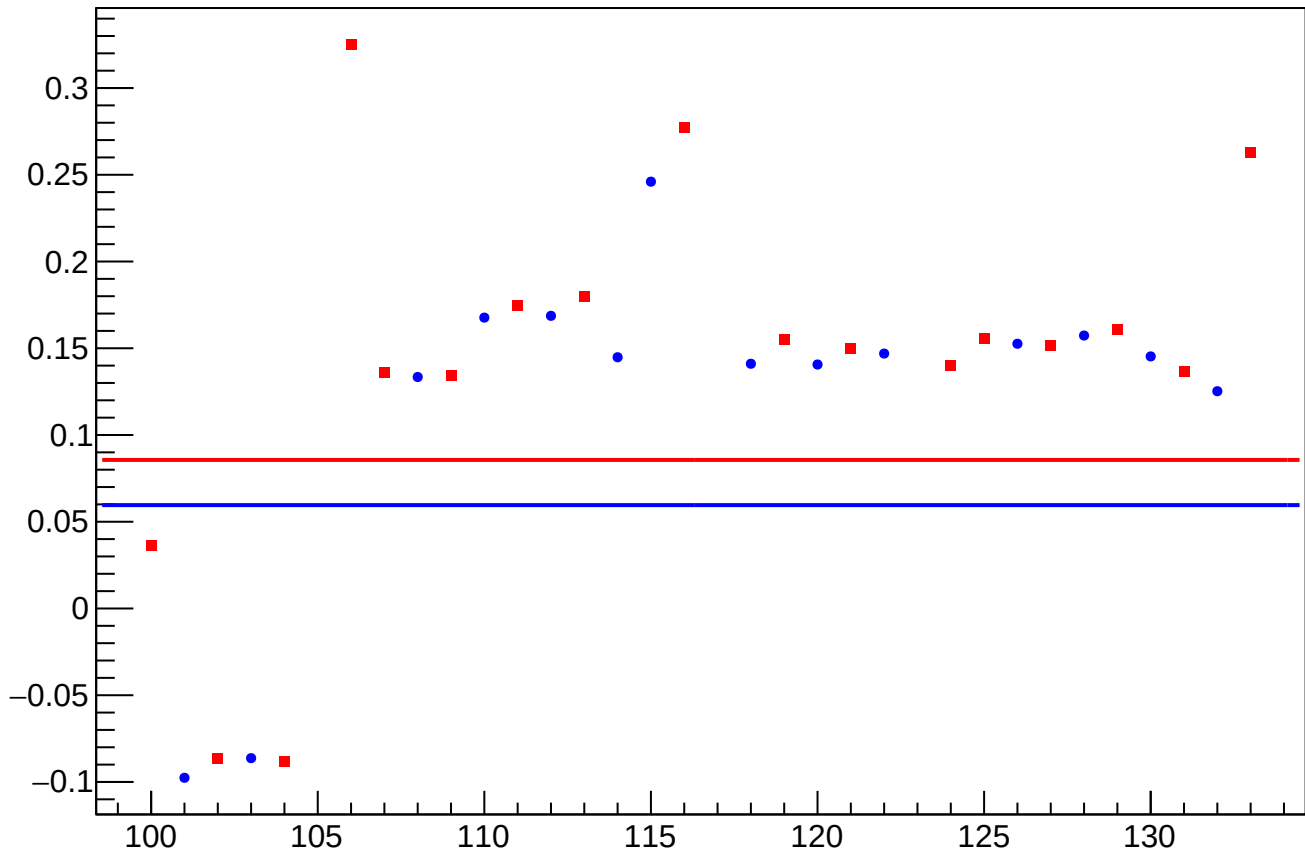
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 276261.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l09Y\_mean vs Slug



Right In: 0.060 $\pm$ 0.000  $\chi^2$ /NDF: 2898024117.3/13

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

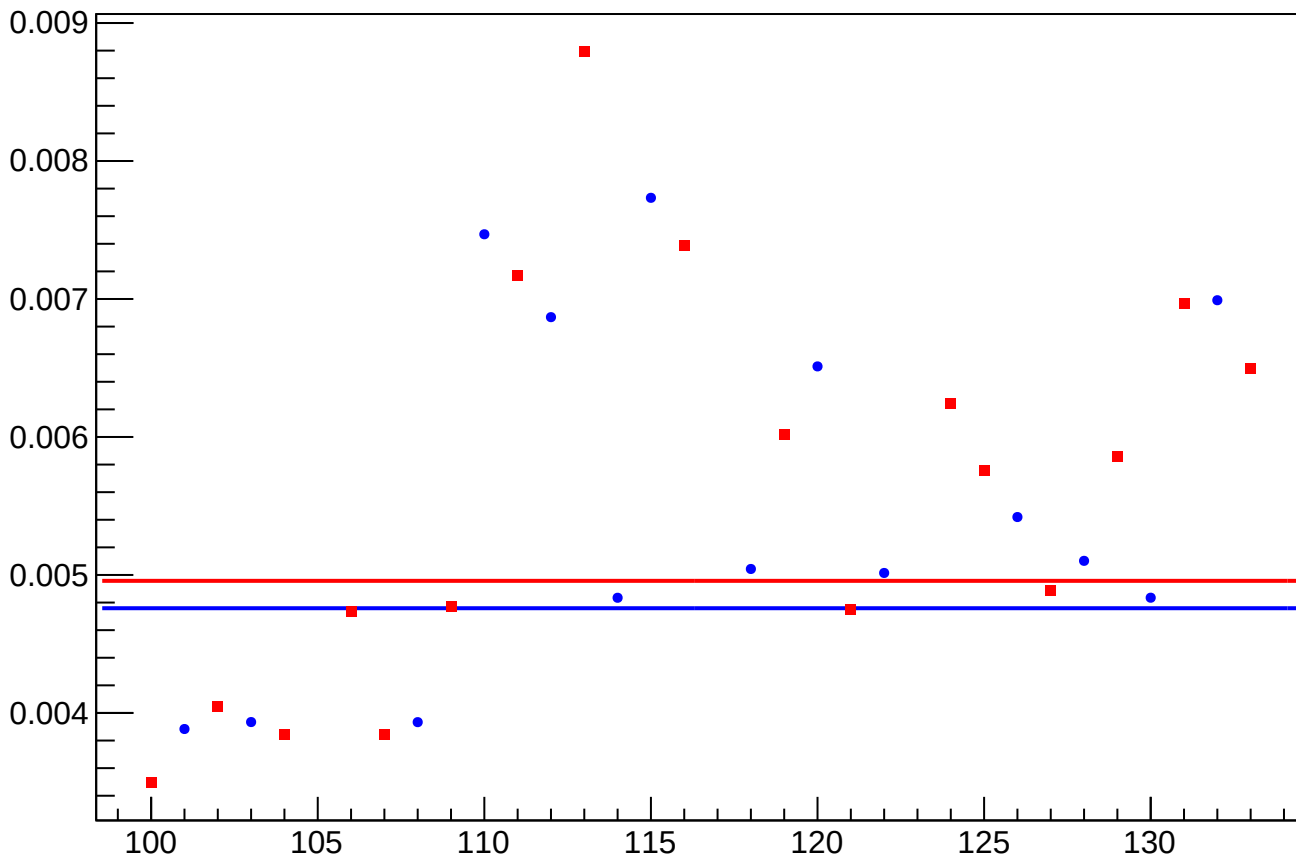
Right Out: 0.086 $\pm$ 0.000  $\chi^2$ /NDF: 3589491449.5/16

All: 0.073 $\pm$ 0.000  $\chi^2$ /NDF: 6561597211.4/30

- 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\_bpm0l09Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 461107.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 653338.8/16

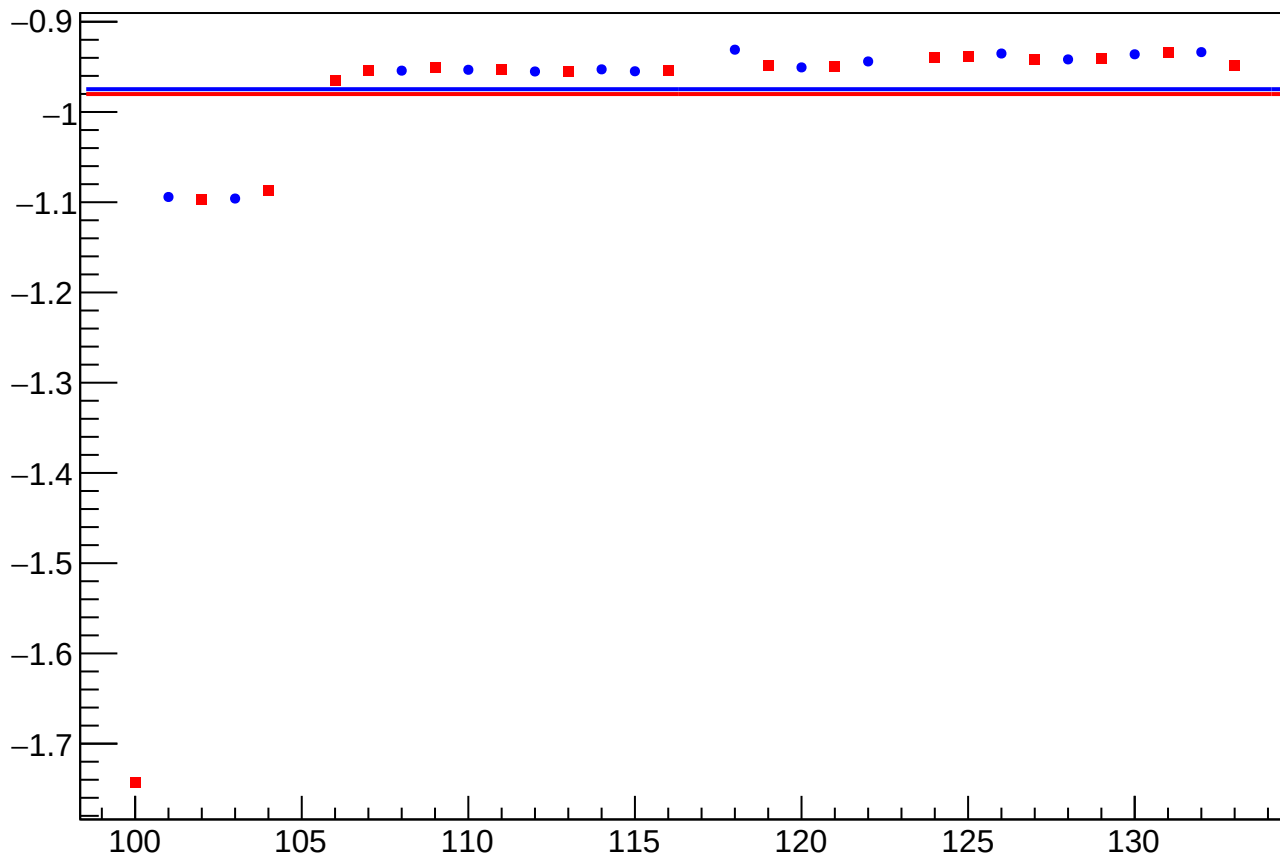
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1123038.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l10X\_mean vs Slug



Right In: -0.975+/-0.000  $\chi^2$ /NDF: 148773349.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.980+/-0.000  $\chi^2$ /NDF: 446792263.2/16

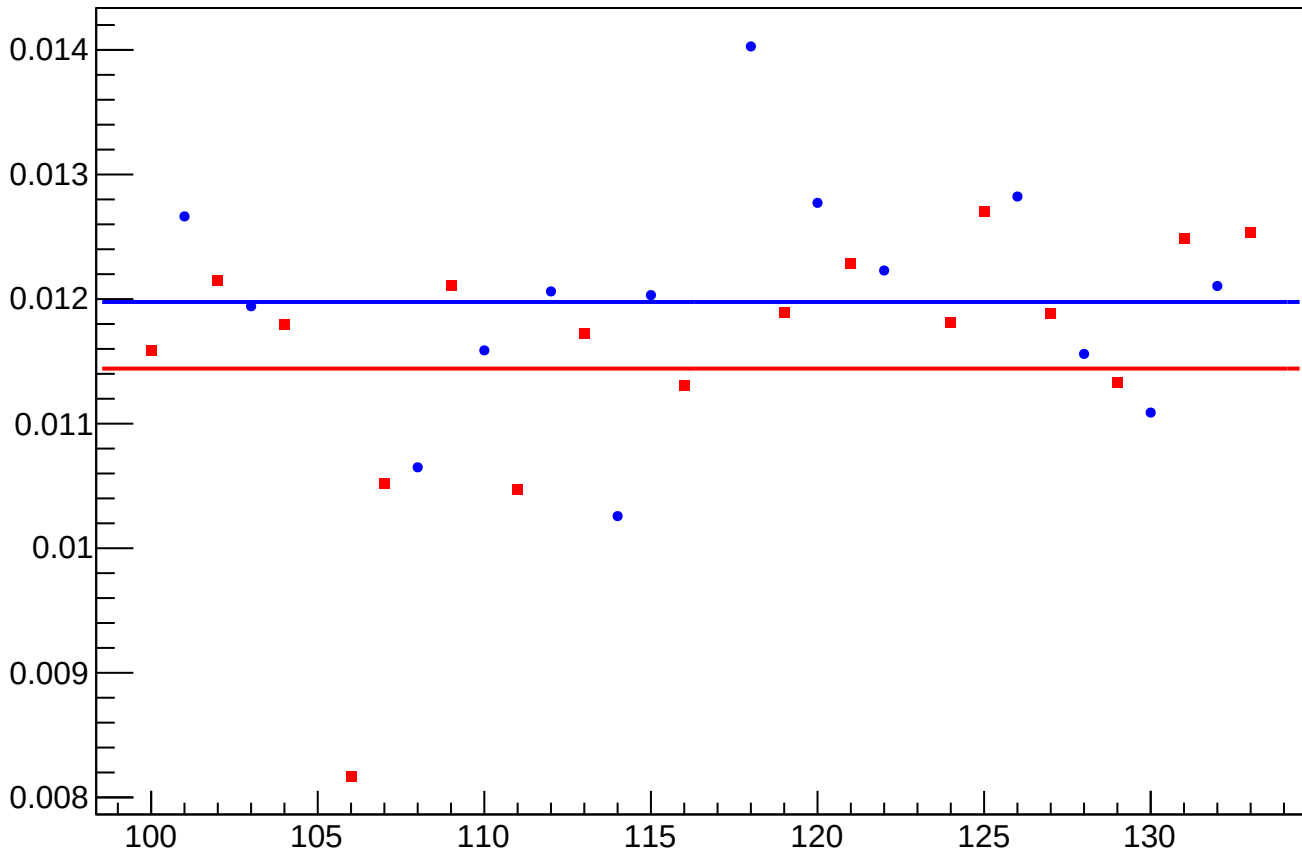
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.978+/-0.000  $\chi^2$ /NDF: 596211884.5/30

- 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: 58097.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 146372.2/16

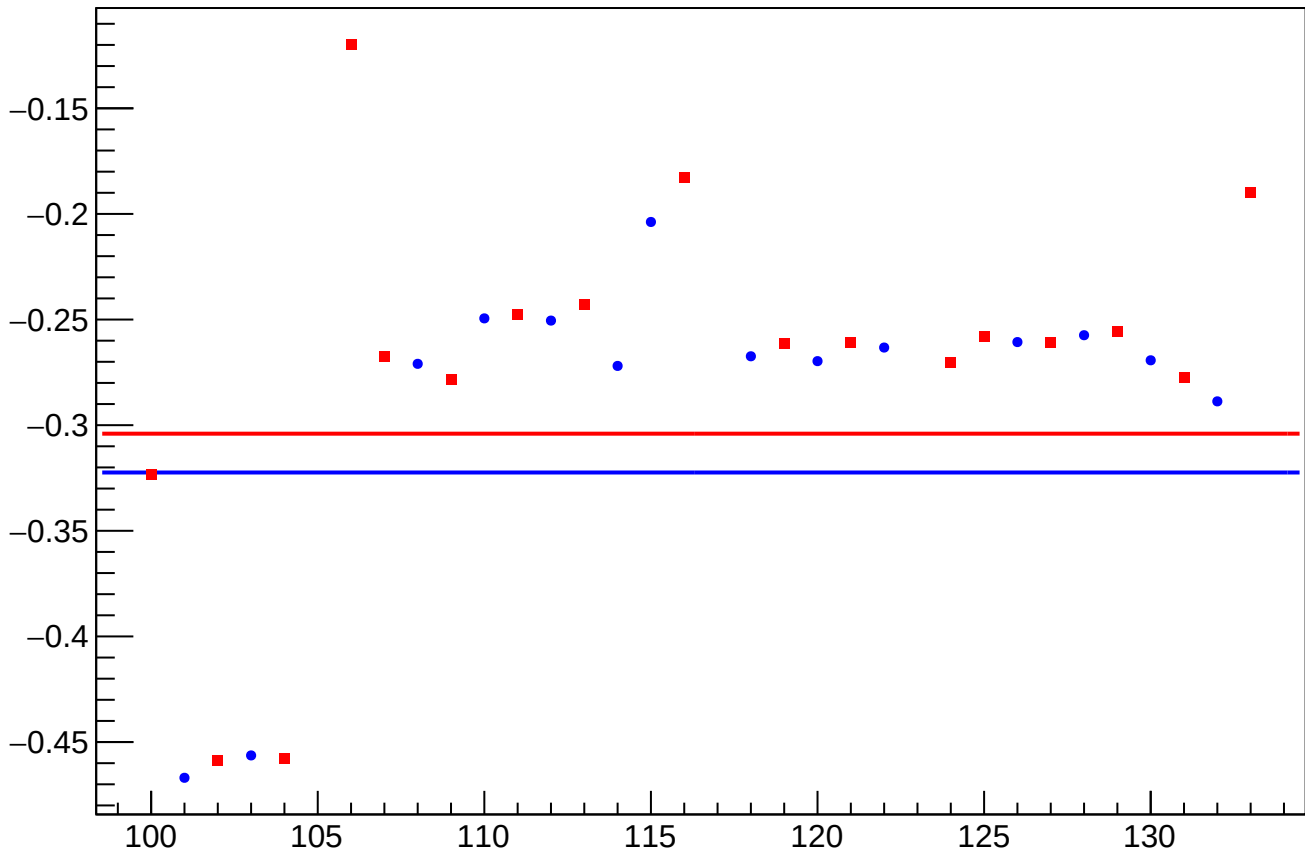
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 217100.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l10Y\_mean vs Slug



Right In: -0.322+/-0.000  $\chi^2/\text{NDF}$ : 2520386612.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.304+/-0.000  $\chi^2/\text{NDF}$ : 2855119556.6/16

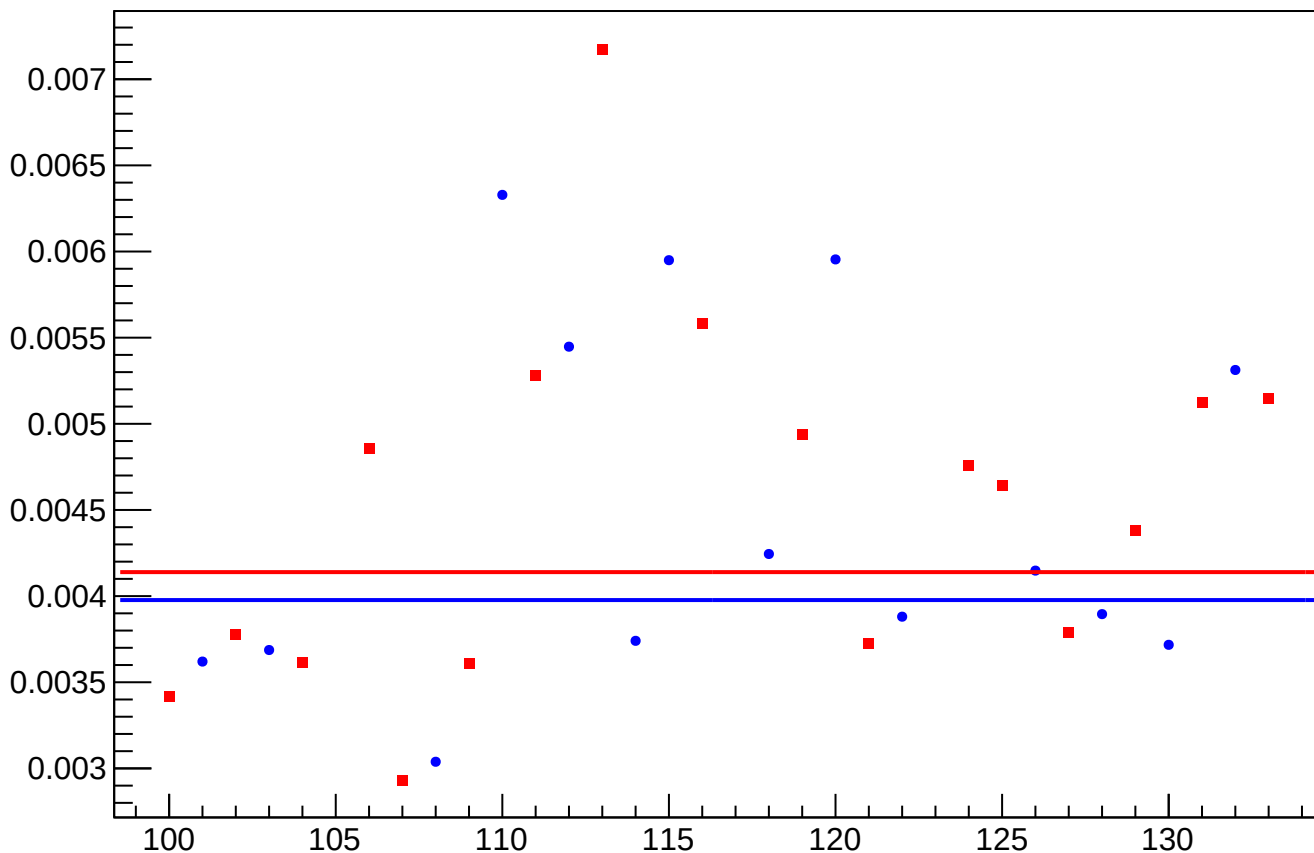
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.313+/-0.000  $\chi^2/\text{NDF}$ : 5428937798.0/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l10Y\_rms vs Slug



Right In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 378343.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 469075.4/16

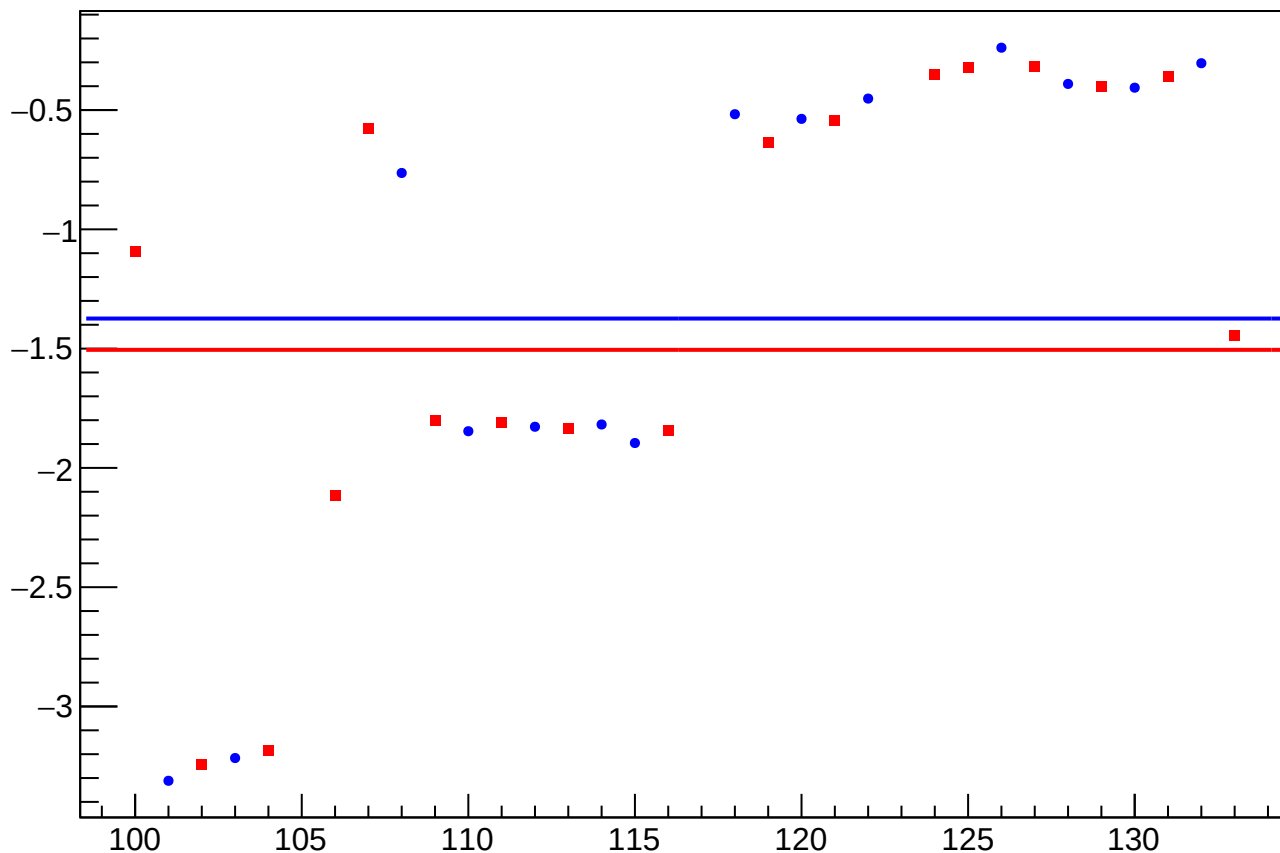
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 855745.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r03X\_mean vs Slug



Right In:  $-1.374 \pm 0.000$   $\chi^2/\text{NDF}$ : 1425428954.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.505 \pm 0.000$   $\chi^2/\text{NDF}$ : 1241131766.2/16

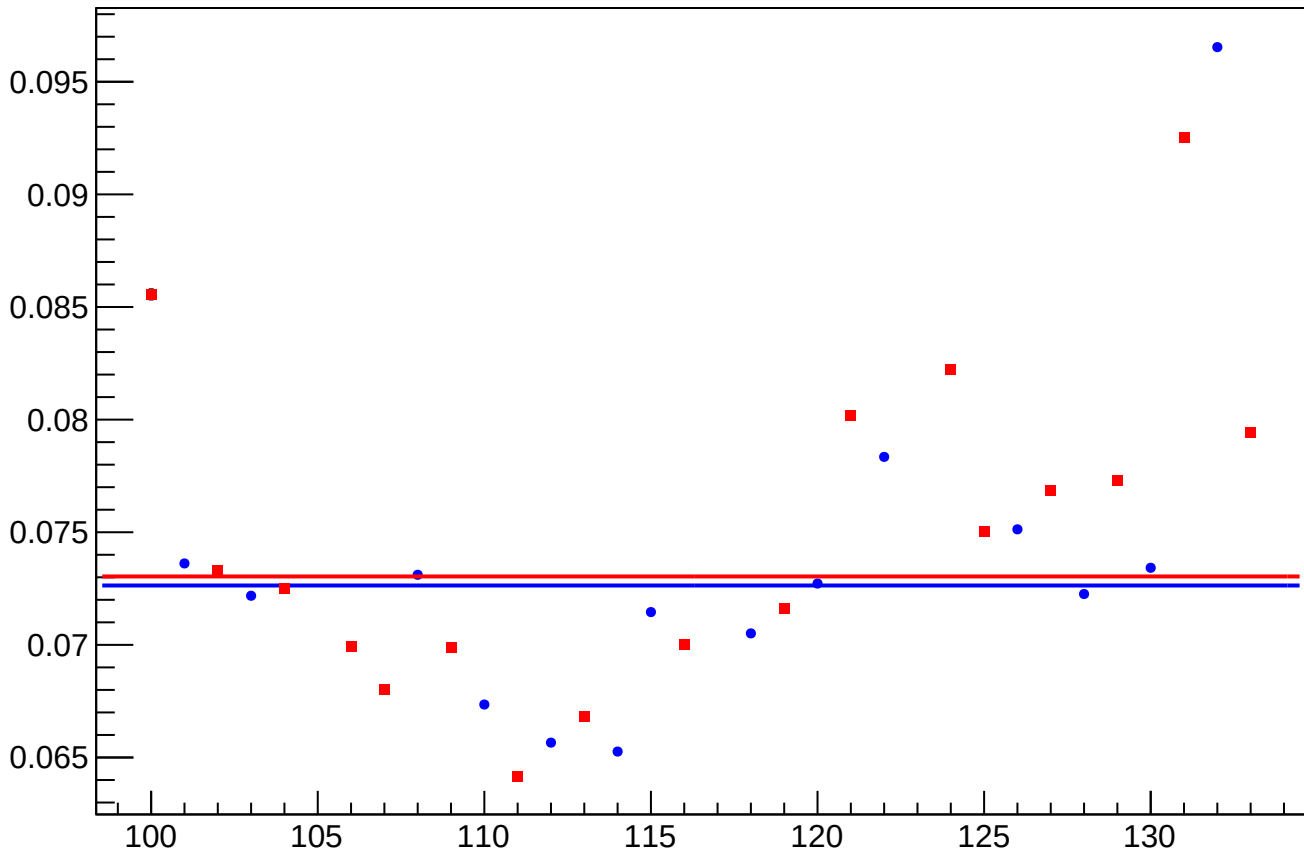
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.443 \pm 0.000$   $\chi^2/\text{NDF}$ : 2676578414.4/3

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r03X\_rms vs Slug



Right In: 0.073+/-0.000  $\chi^2/\text{NDF}$ : 73450.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.073+/-0.000  $\chi^2/\text{NDF}$ : 89099.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

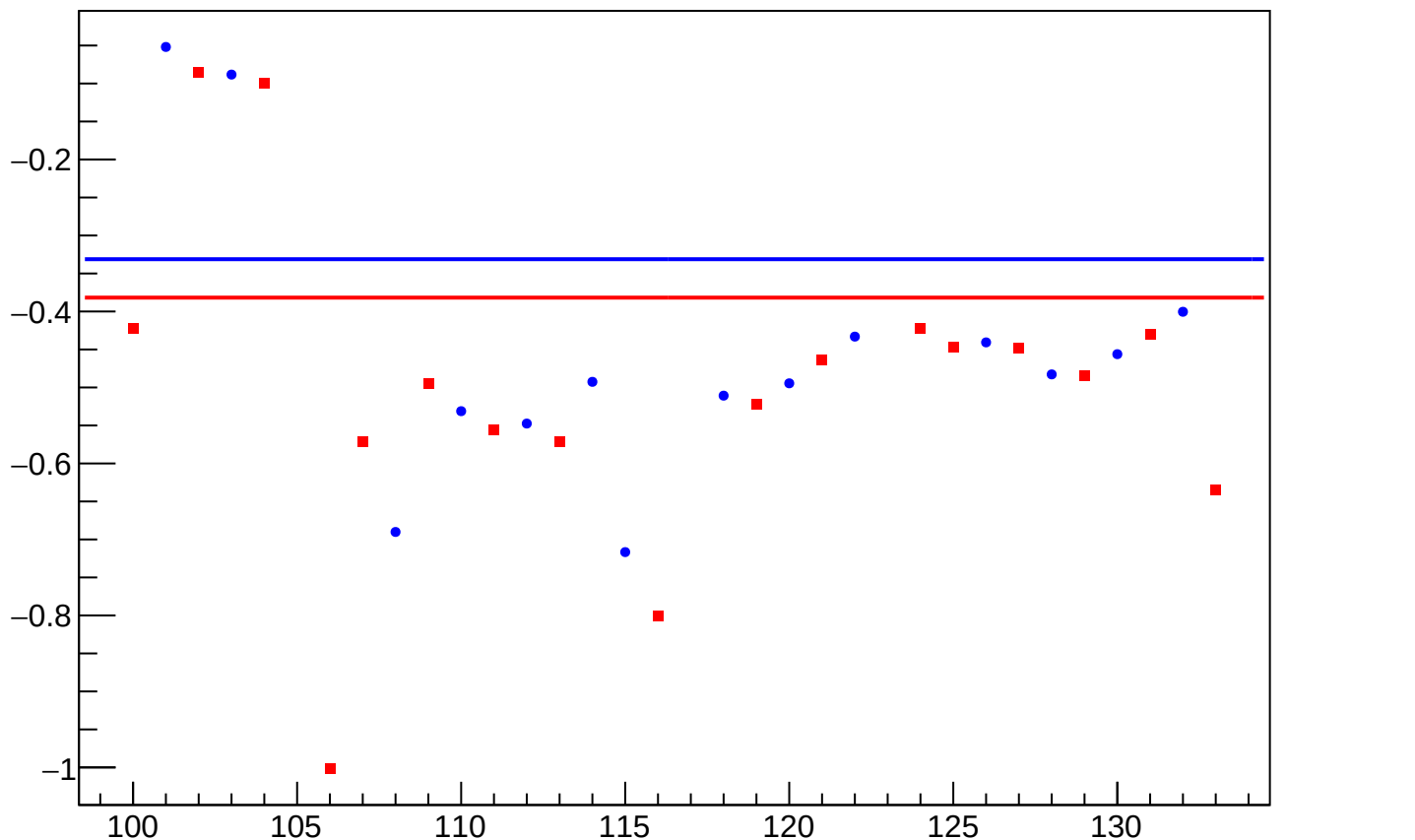
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.073+/-0.000  $\chi^2/\text{NDF}$ : 162737.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0r03Y\_mean vs Slug



Right In: -0.331+/-0.000  $\chi^2/\text{NDF}$ : 1871230819.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.382+/-0.000  $\chi^2/\text{NDF}$ : 2577288026.7/16

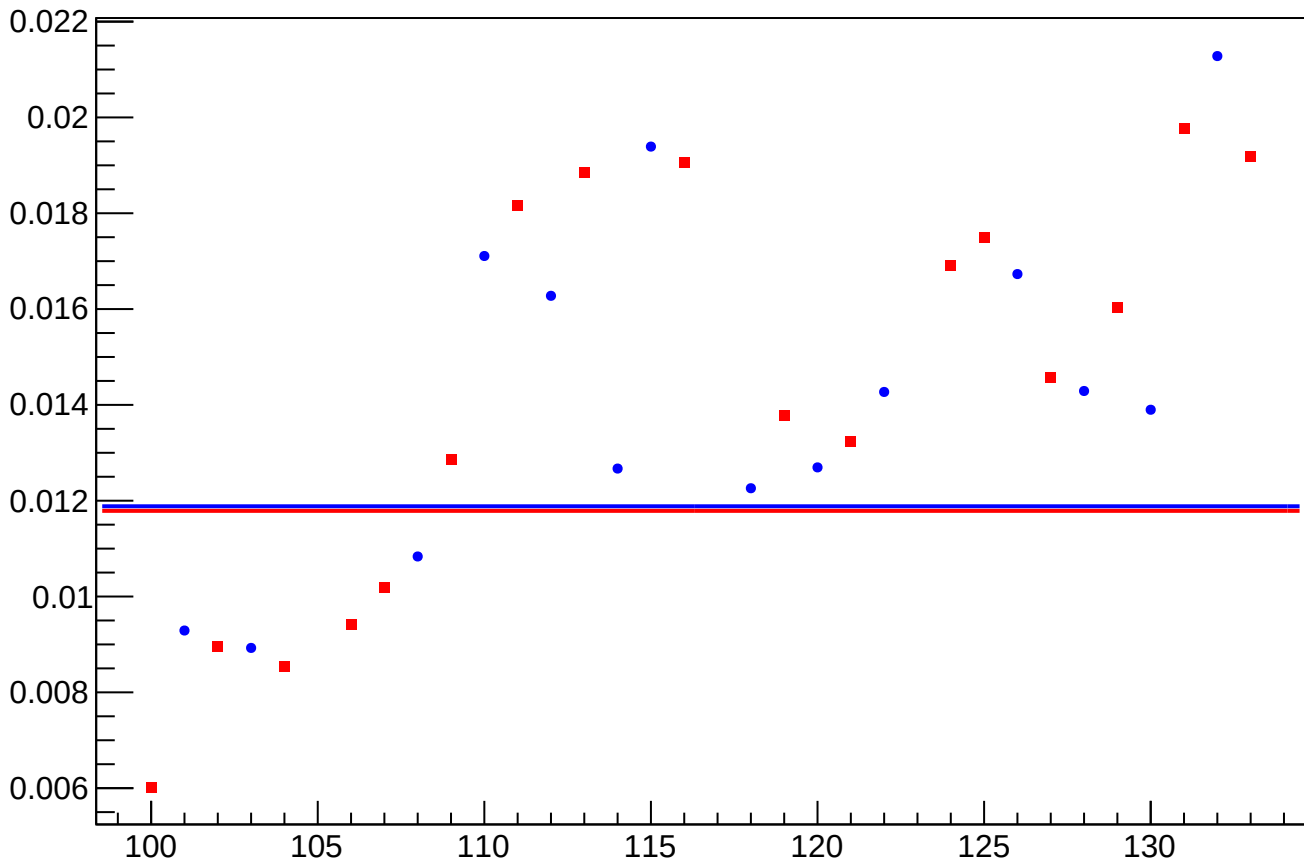
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.358+/-0.000  $\chi^2/\text{NDF}$ : 4495119760.7/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r03Y\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 618704.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 1122389.4/16

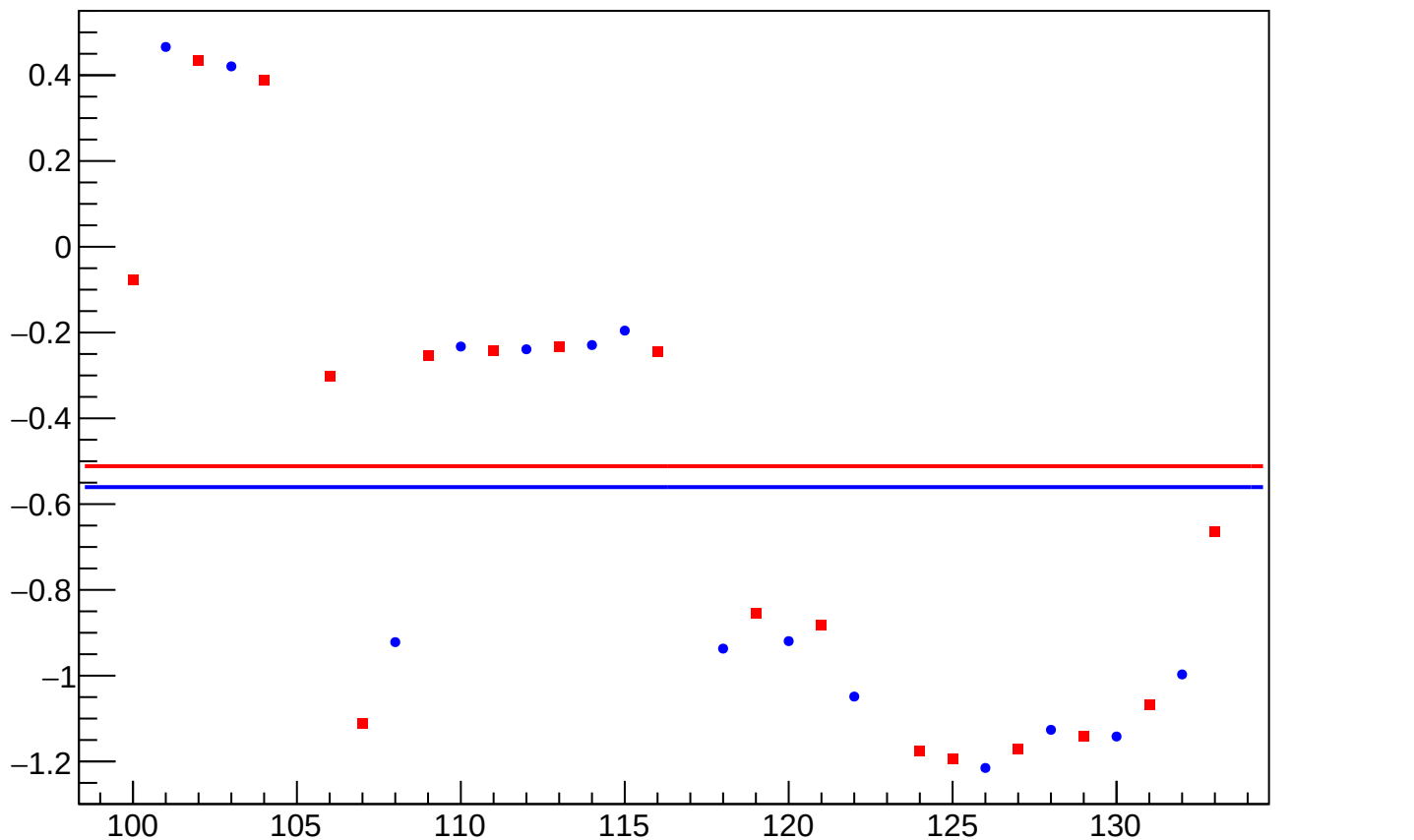
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 1741423.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05X\_mean vs Slug



Right In: -0.560+/-0.000  $\chi^2/\text{NDF}$ : 288366551.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.512+/-0.000  $\chi^2/\text{NDF}$ : 263121278.3/16

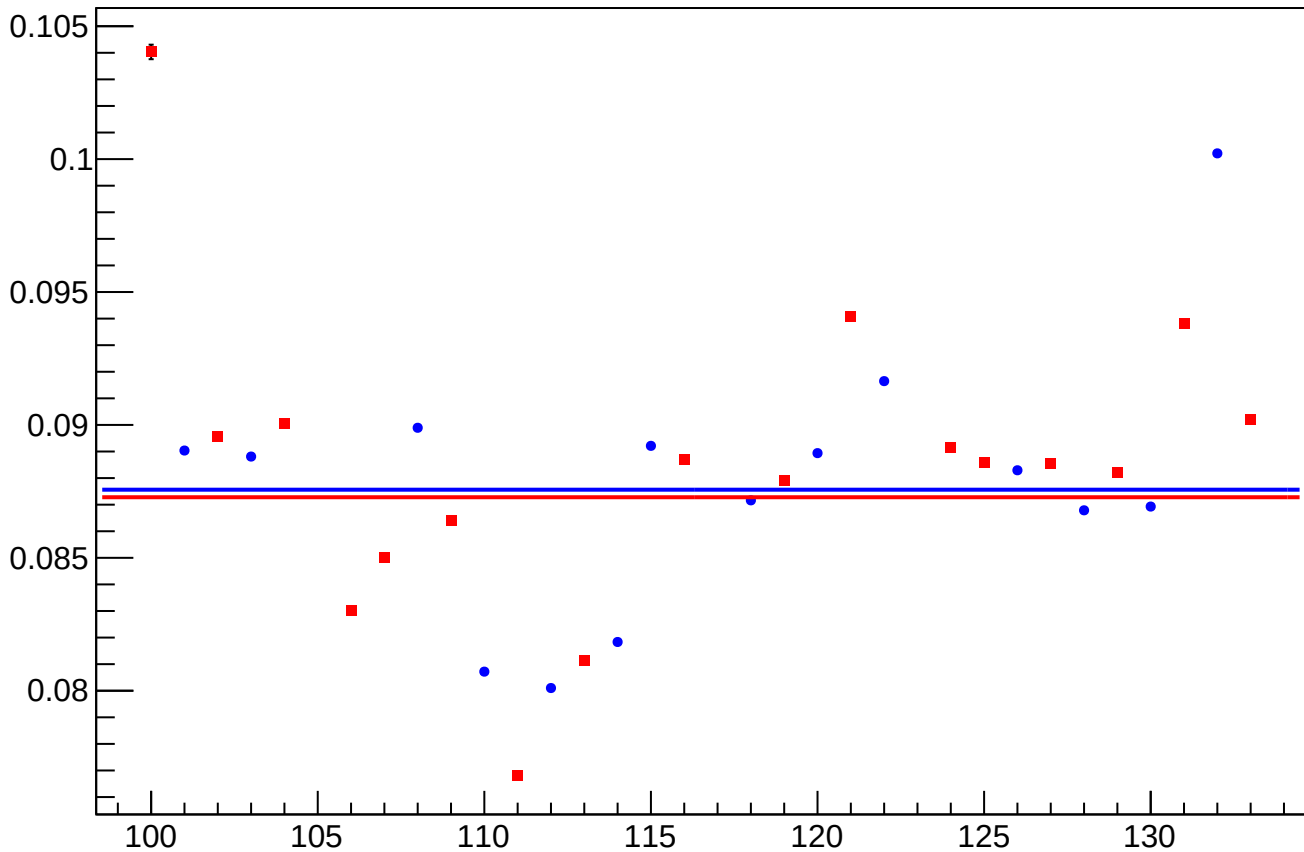
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.534+/-0.000  $\chi^2/\text{NDF}$ : 552469799.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05X\_rms vs Slug



Right In: 0.088 $\pm$ 0.000  $\chi^2$ /NDF: 32083.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.087 $\pm$ 0.000  $\chi^2$ /NDF: 39836.1/16

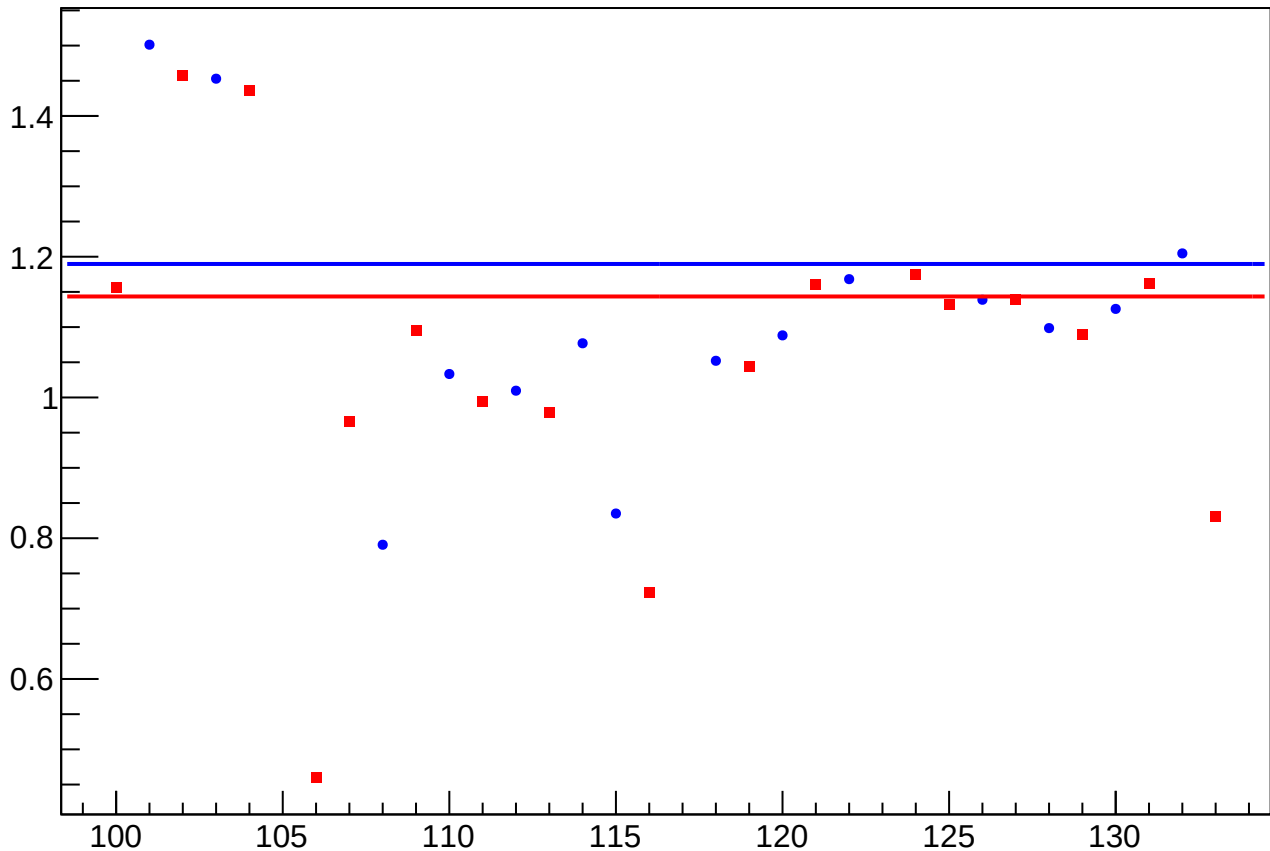
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.087 $\pm$ 0.000  $\chi^2$ /NDF: 71986.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r05Y\_mean vs Slug



Right In: 1.190+/-0.000  $\chi^2/\text{NDF}$ : 1075833210.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.144+/-0.000  $\chi^2/\text{NDF}$ : 1472450394.4/16

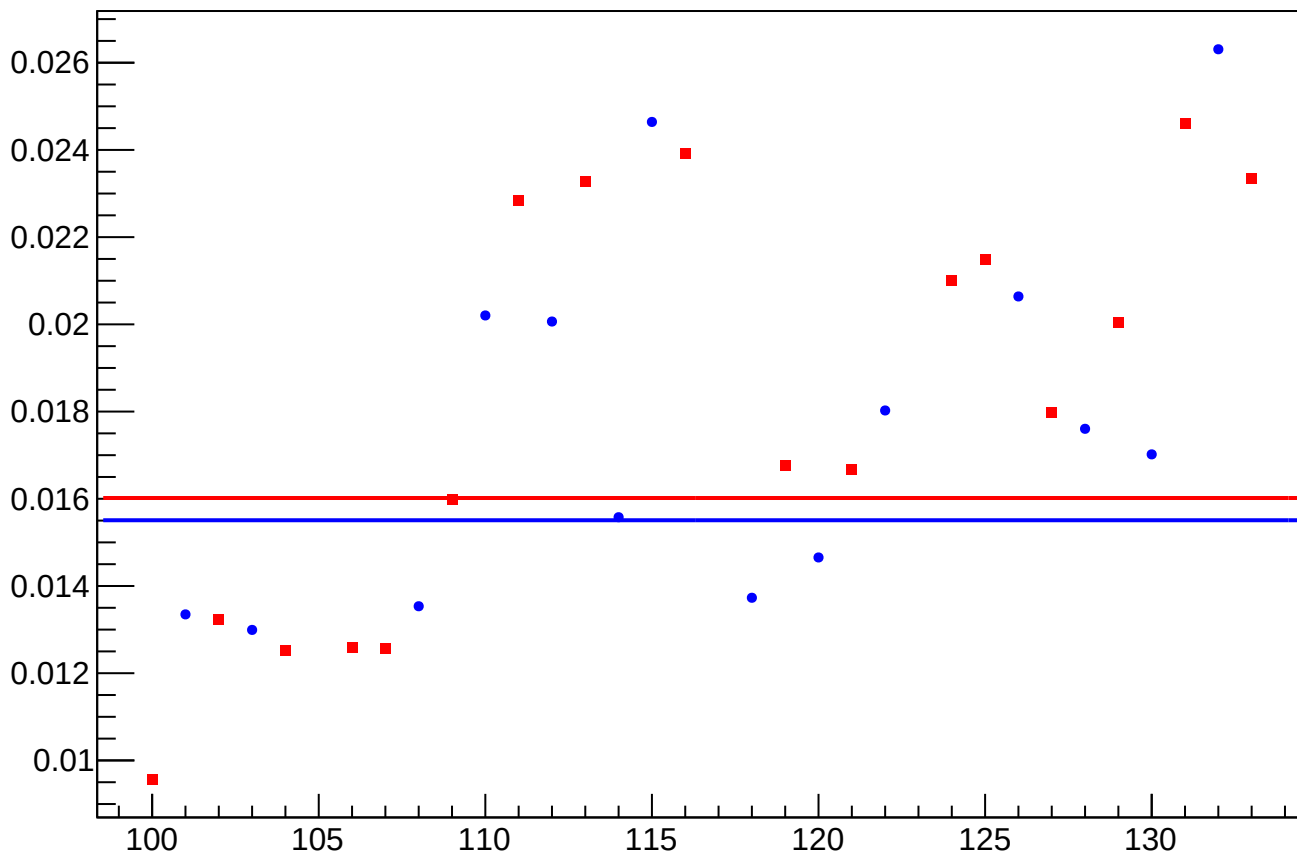
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.166+/-0.000  $\chi^2/\text{NDF}$ : 2570814915.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05Y\_rms vs Slug



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 384571.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 697830.4/16

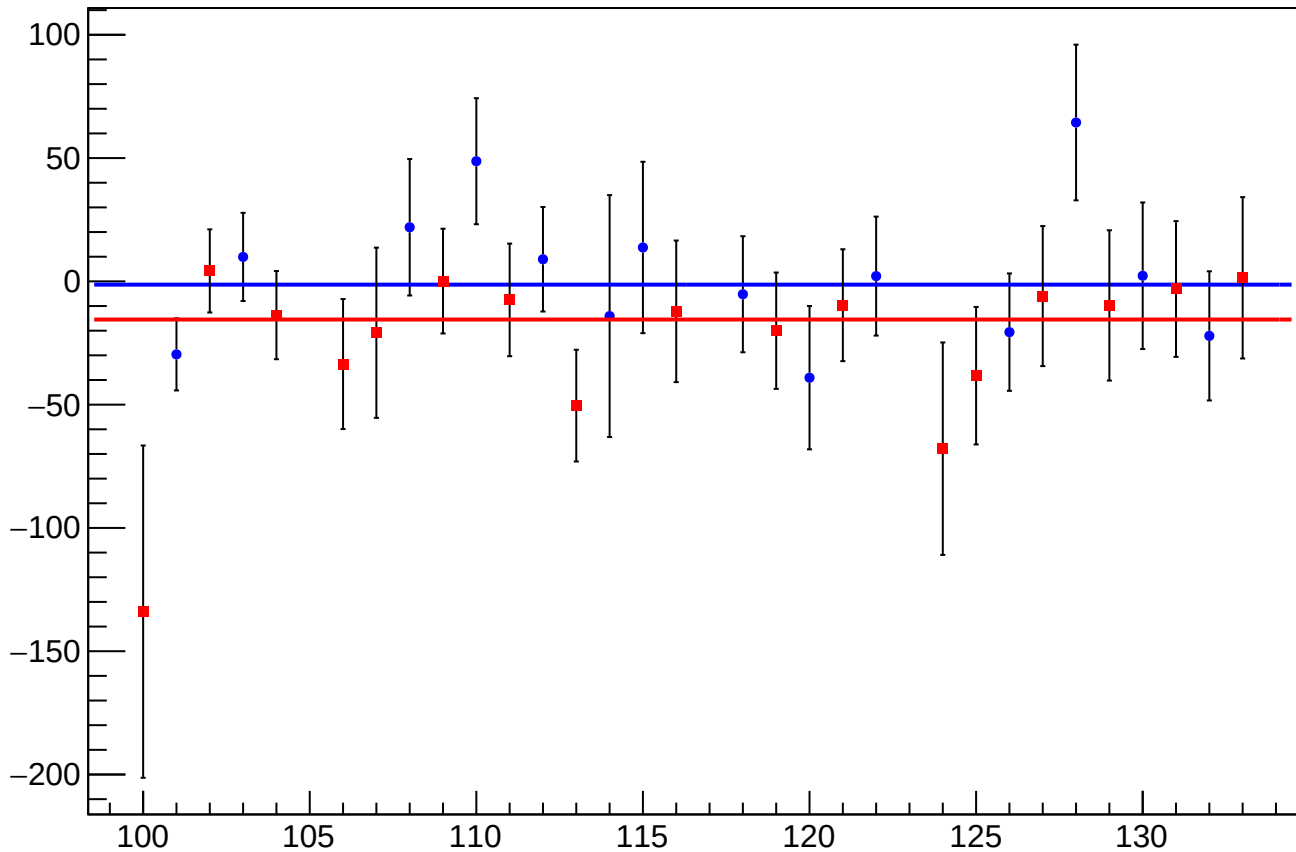
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 1087901.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aX\_mean vs Slug



Right In: -1.328+/-6.432  $\chi^2/\text{NDF}$ : 16.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.480+/-6.134  $\chi^2/\text{NDF}$ : 10.9/16

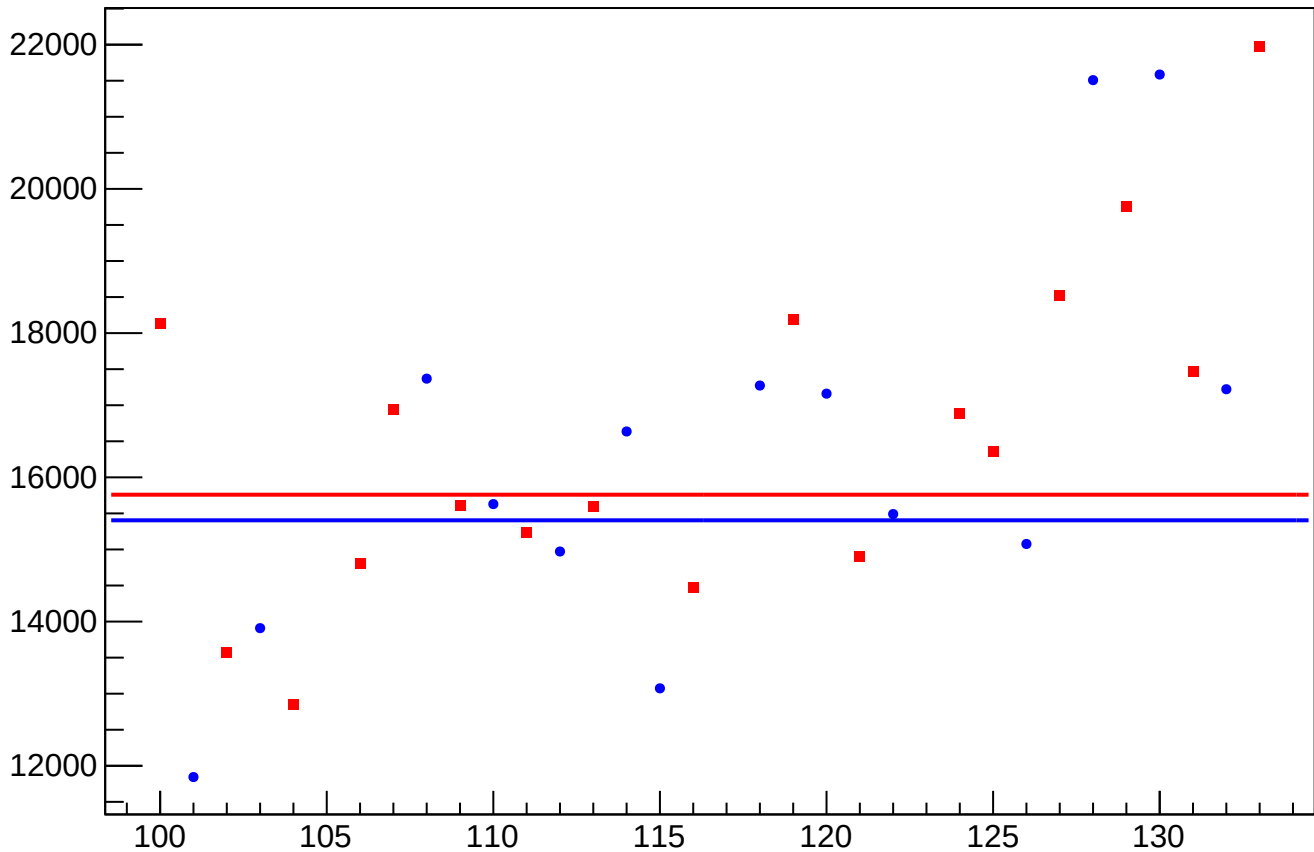
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.739+/-4.439  $\chi^2/\text{NDF}$ : 30.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aX\_rms vs Slug



Right In: 15404.201+/-4.548  $\chi^2/\text{NDF}$ : 345073.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15759.316+/-4.338  $\chi^2/\text{NDF}$ : 258935.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

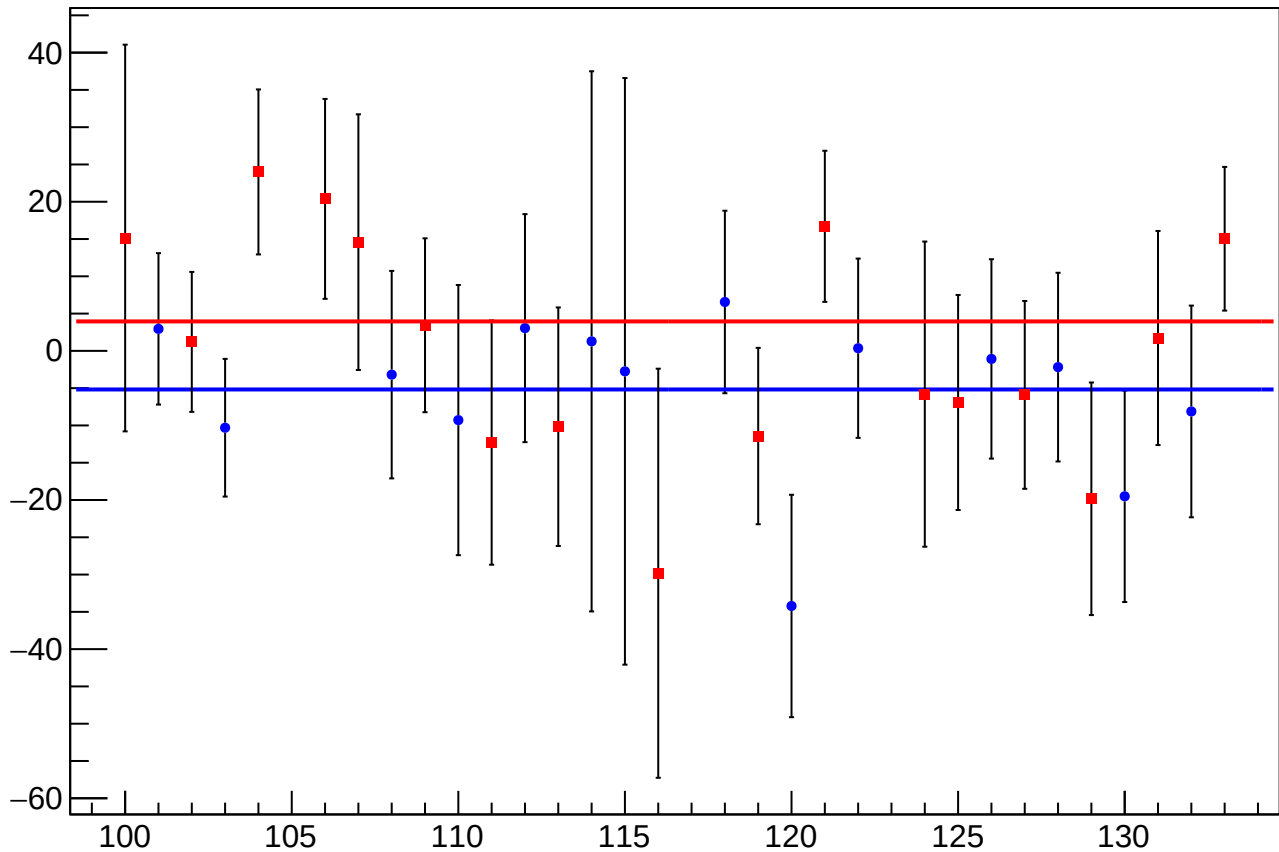
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15590.160+/-3.139  $\chi^2/\text{NDF}$ : 607201.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm4aY\_mean vs Slug



Right In:  $-5.177 \pm 3.647$   $\chi^2/\text{NDF}$ : 7.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $3.951 \pm 3.220$   $\chi^2/\text{NDF}$ : 17.1/16

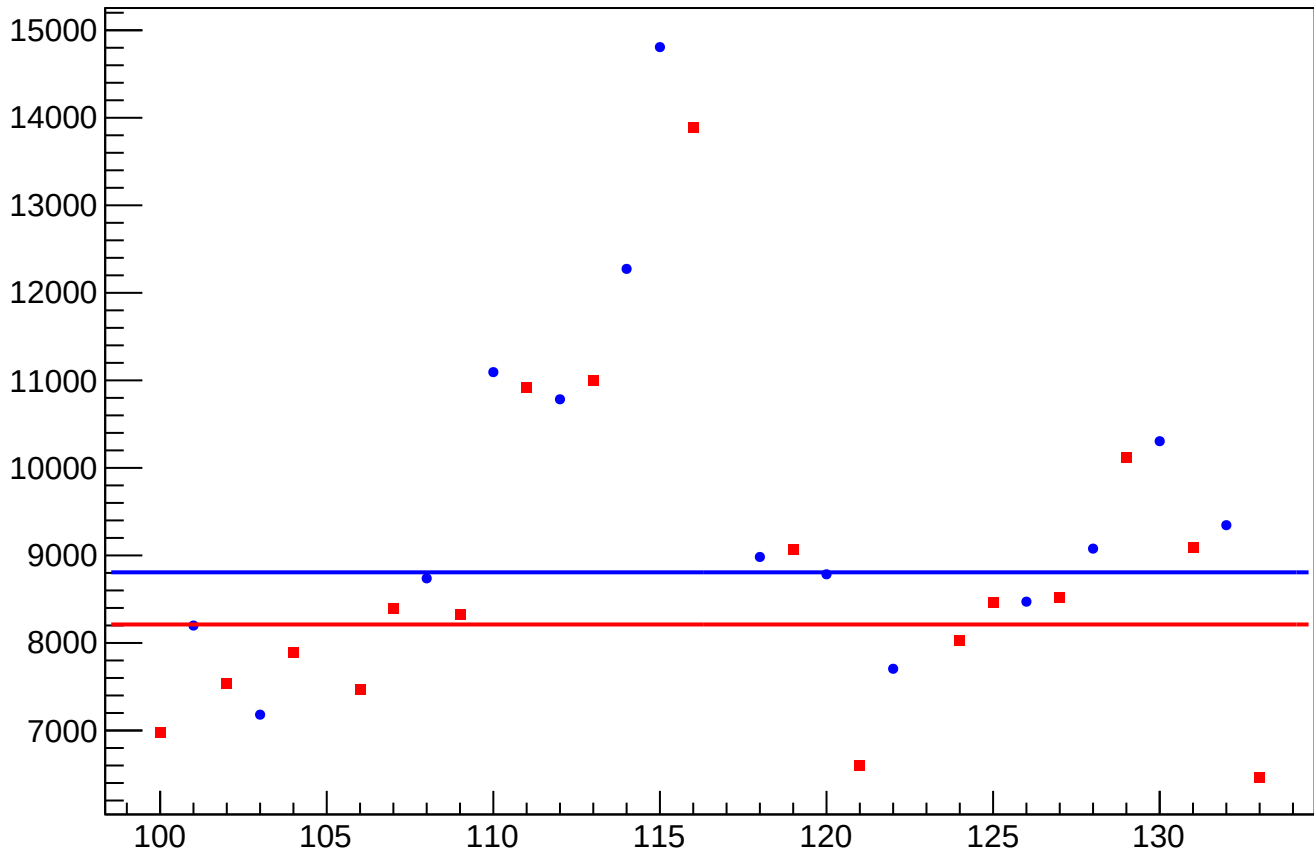
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.049 \pm 2.414$   $\chi^2/\text{NDF}$ : 28.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4aY\_rms vs Slug



Right In: 8807.017 $\pm$ 2.579  $\chi^2$ /NDF: 244035.1/13

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

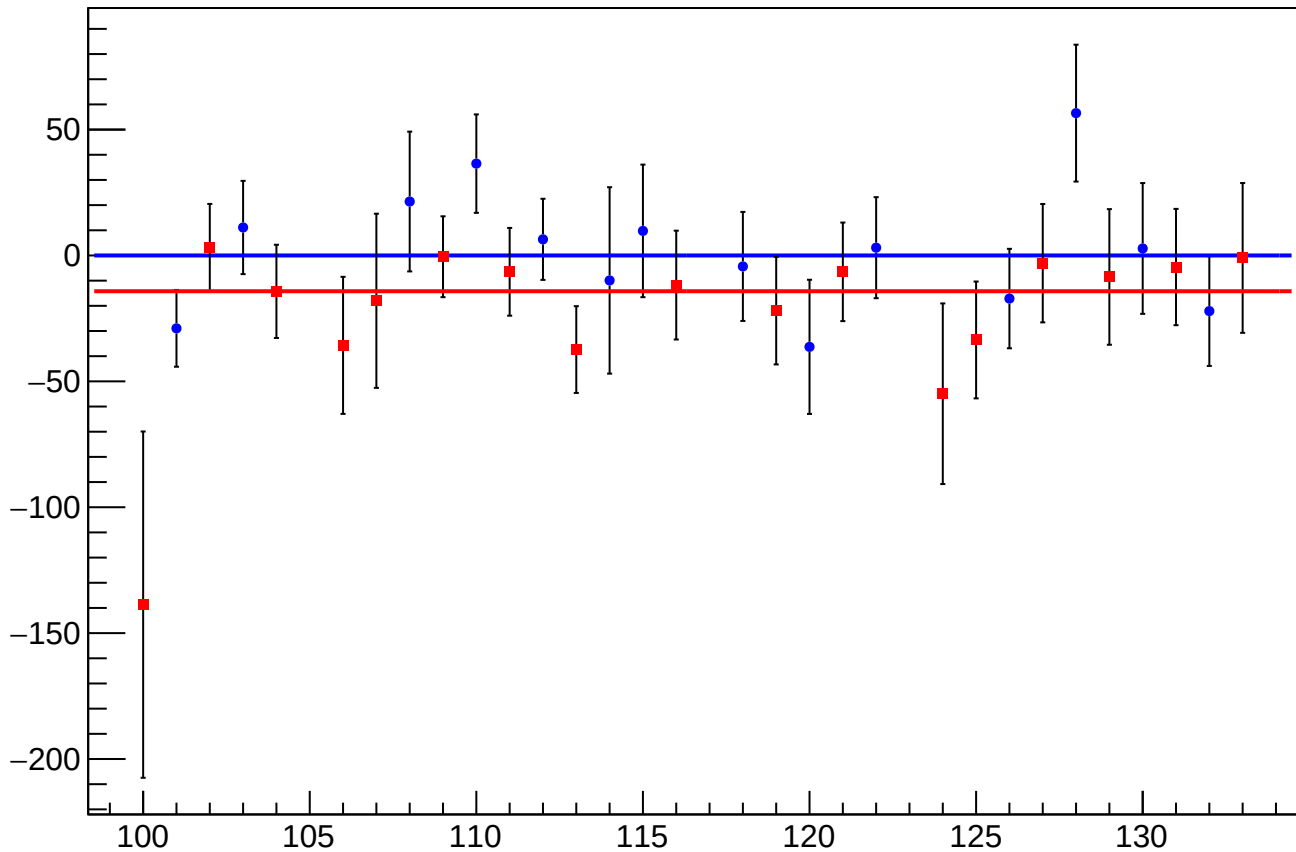
Right Out: 8211.315 $\pm$ 2.277  $\chi^2$ /NDF: 390399.4/16

All: 8472.328 $\pm$ 1.707  $\chi^2$ /NDF: 664421.6/30

- 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\_bpm4eX\_mean vs Slug



Right In:  $0.007 \pm 5.709$   $\chi^2/\text{NDF}$ : 16.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-14.205 \pm 5.354$   $\chi^2/\text{NDF}$ : 10.5/16

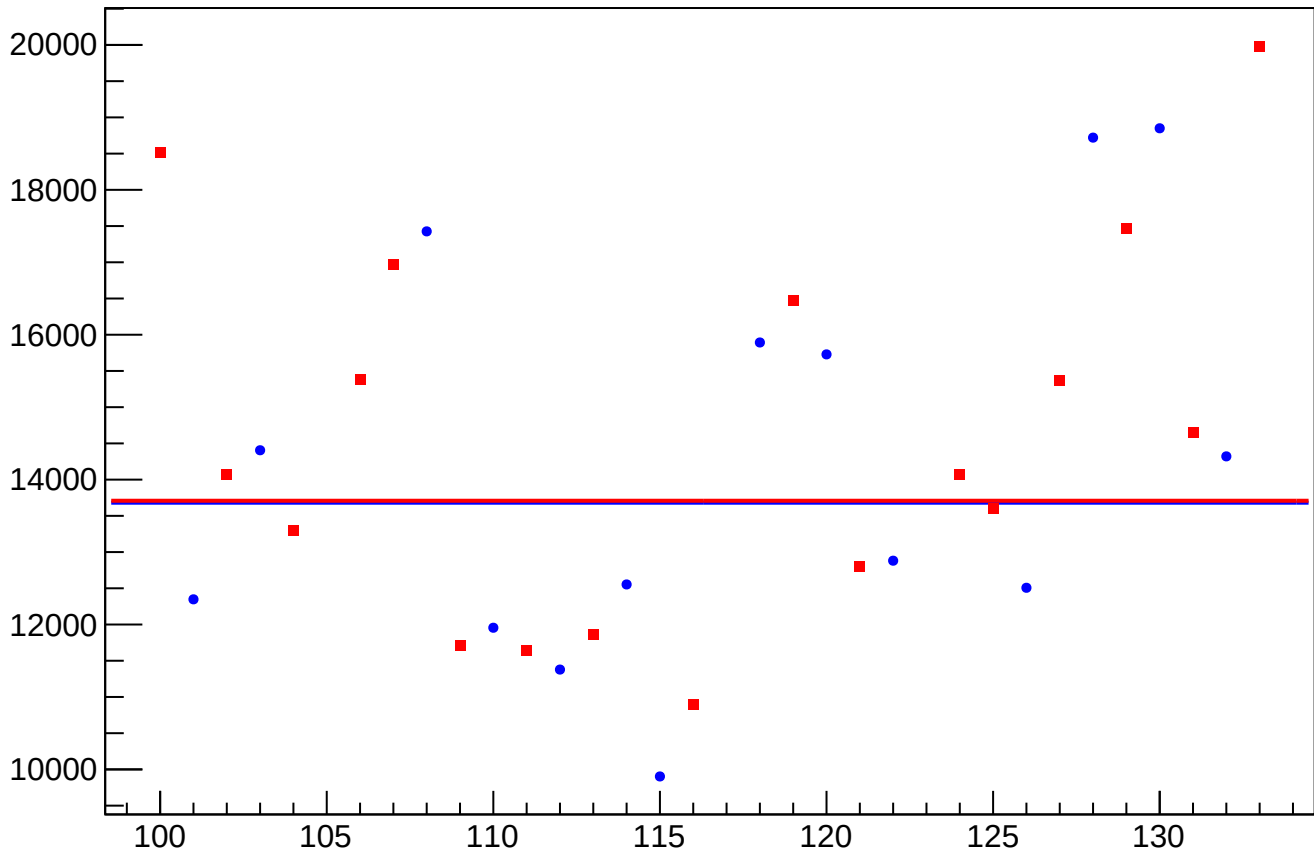
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-7.555 \pm 3.905$   $\chi^2/\text{NDF}$ : 30.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4eX\_rms vs Slug



Right In: 13681.465+/-4.037  $\chi^2/\text{NDF}$ : 346791.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13708.601+/-3.786  $\chi^2/\text{NDF}$ : 332329.5/16

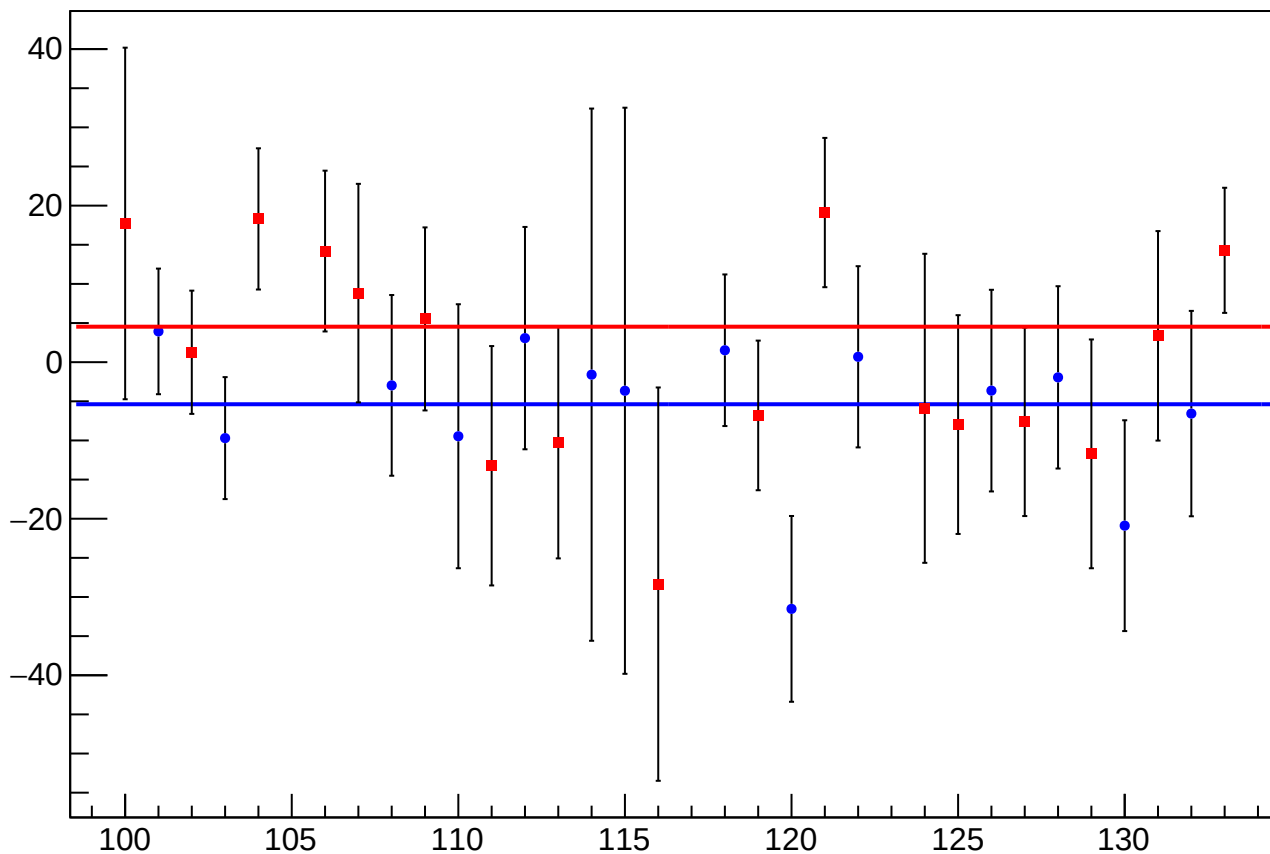
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13695.903+/-2.761  $\chi^2/\text{NDF}$ : 679144.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4eY\_mean vs Slug



Right In: -5.375+/-3.169  $\chi^2/\text{NDF}$ : 9.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.533+/-2.826  $\chi^2/\text{NDF}$ : 16.5/16

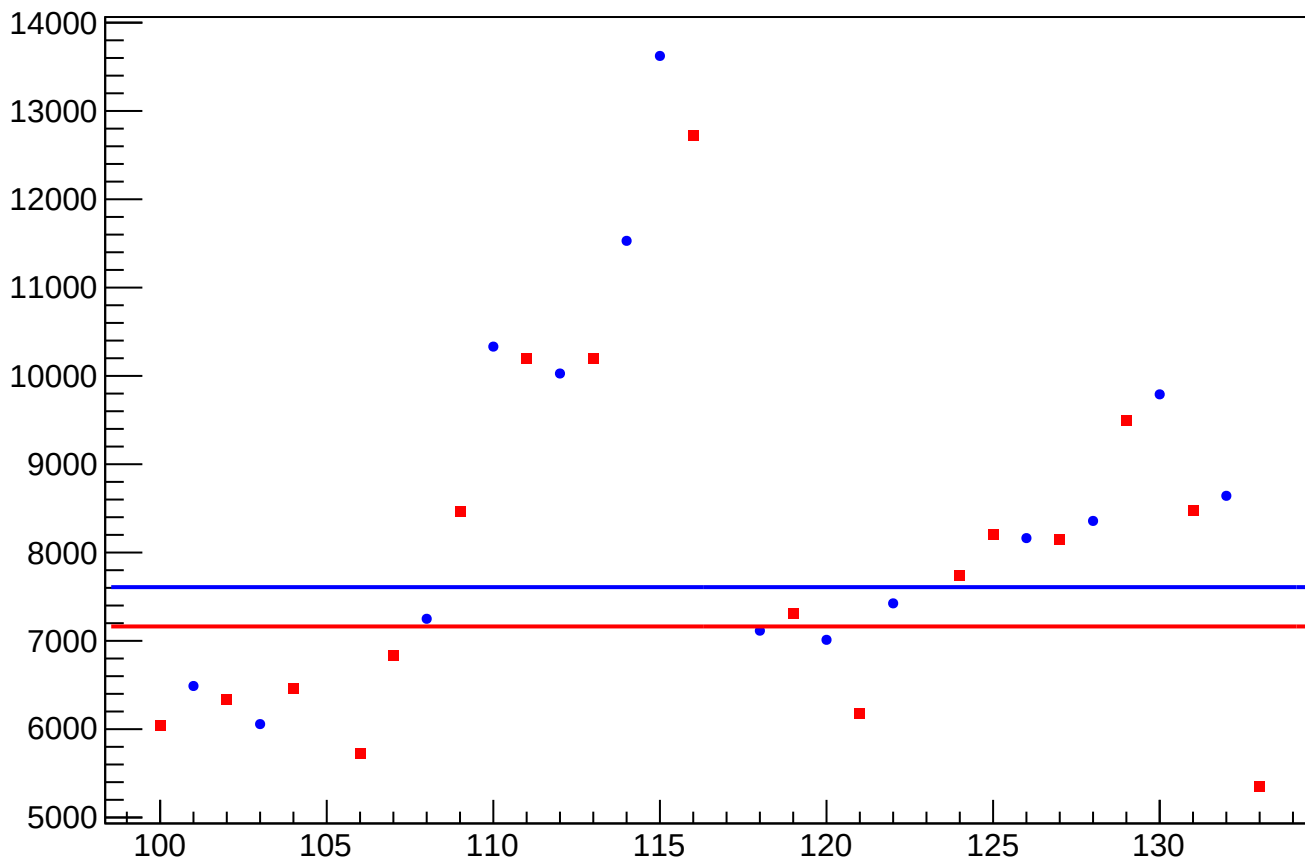
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.144+/-2.109  $\chi^2/\text{NDF}$ : 31.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4eY\_rms vs Slug



Right In: 7608.245+/-2.241  $\chi^2/\text{NDF}$ : 399887.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7163.052+/-1.998  $\chi^2/\text{NDF}$ : 586022.6/16

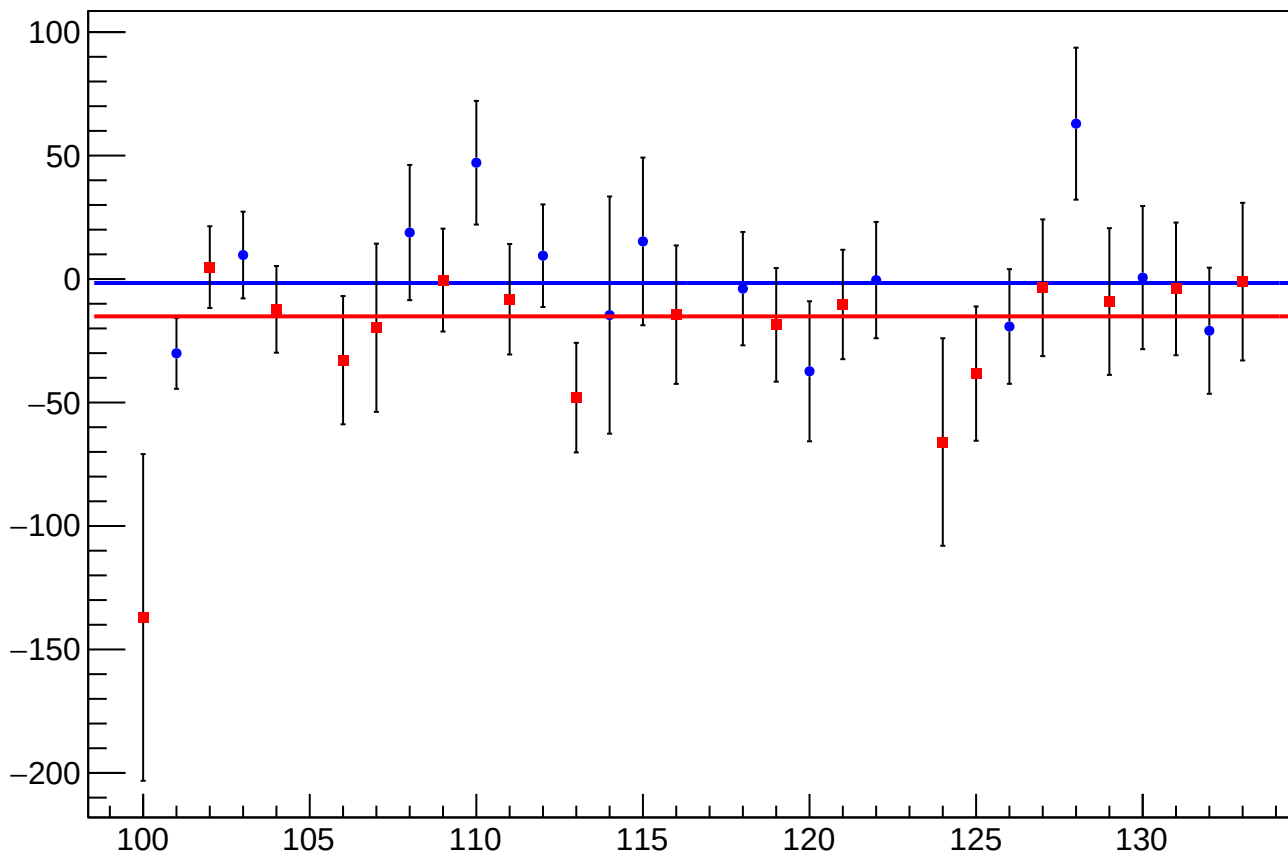
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7360.261+/-1.492  $\chi^2/\text{NDF}$ : 1007892.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4acX\_mean vs Slug



Right In: -1.596+/-6.298  $\chi^2/\text{NDF}$ : 16.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.115+/-6.006  $\chi^2/\text{NDF}$ : 11.0/16

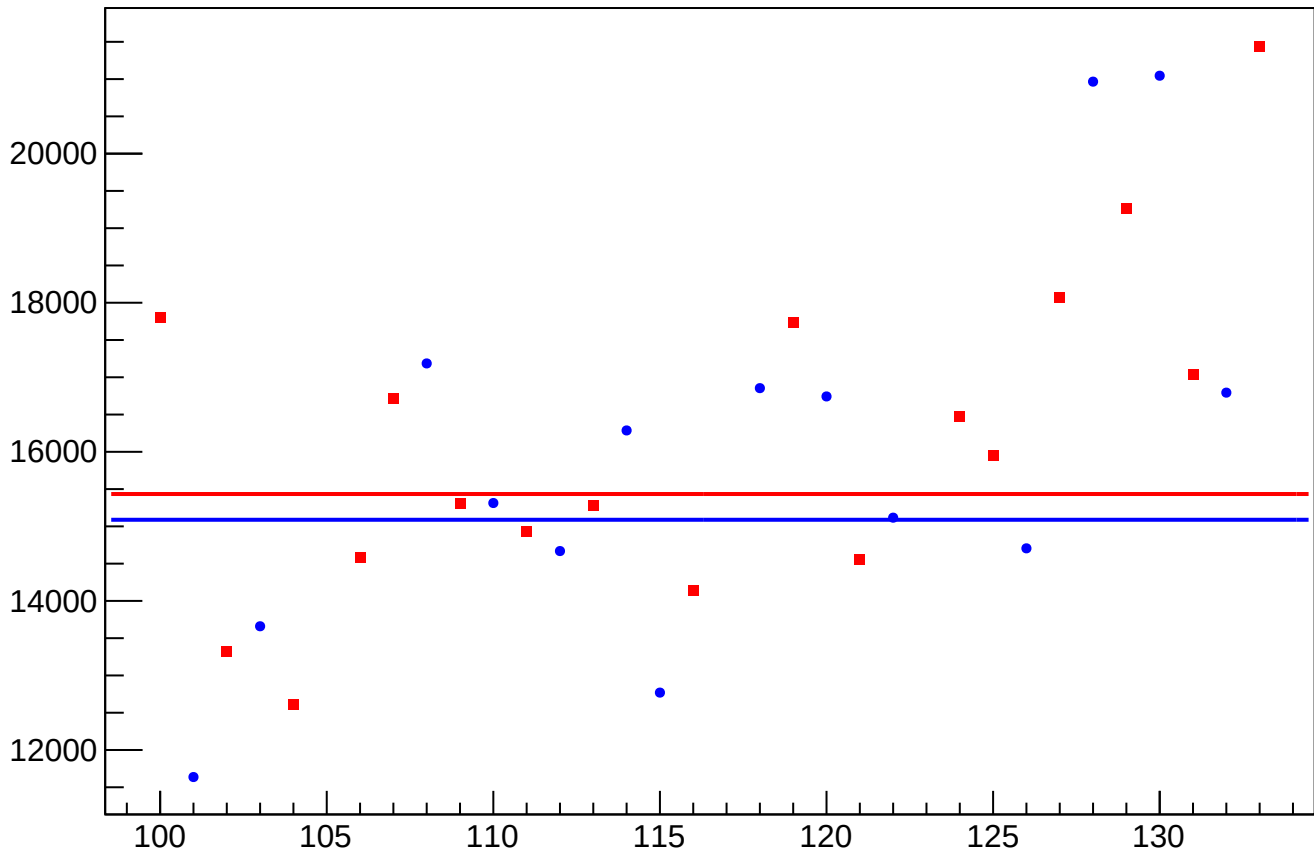
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.676+/-4.346  $\chi^2/\text{NDF}$ : 29.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4acX\_rms vs Slug



Right In: 15088.497+/-4.453  $\chi^2/\text{NDF}$ : 337471.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15433.996+/-4.247  $\chi^2/\text{NDF}$ : 251260.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

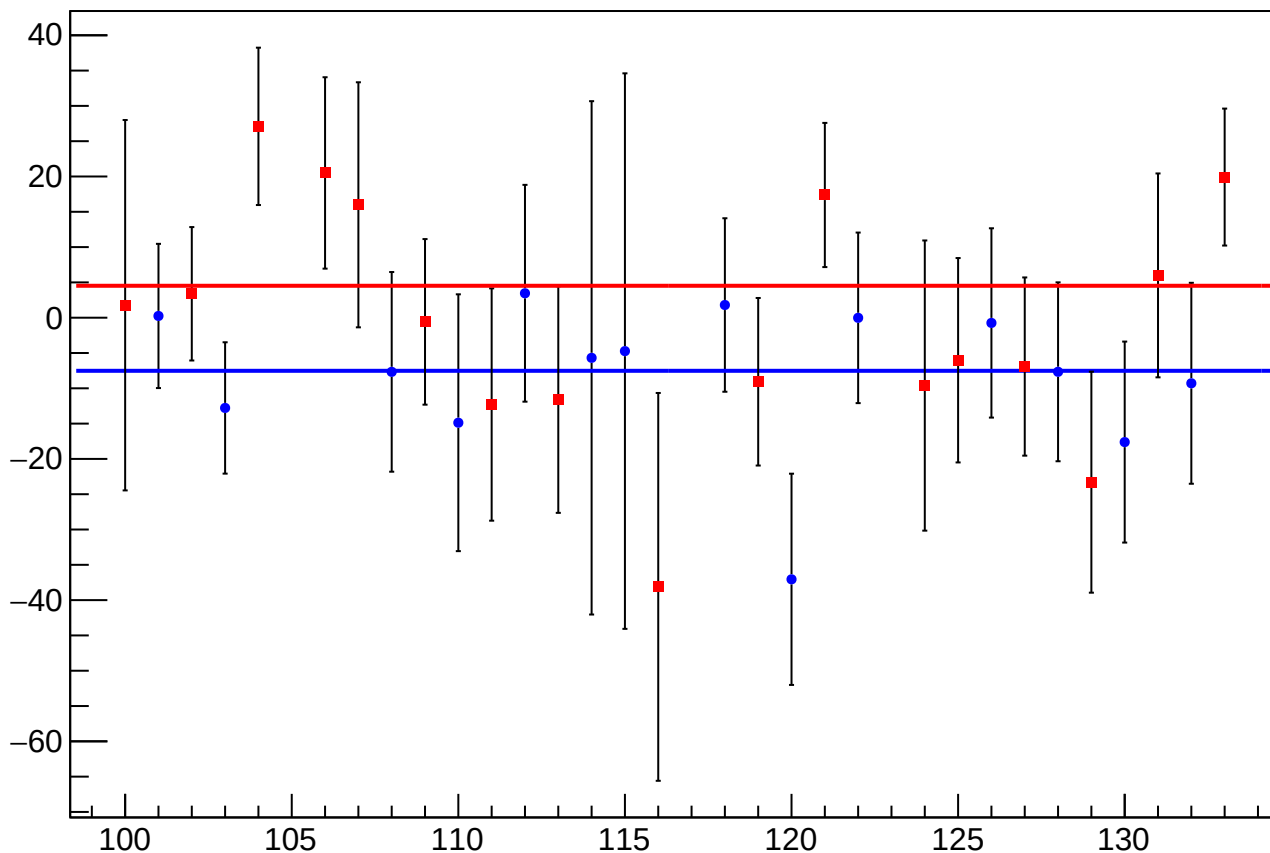
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15269.438+/-3.073  $\chi^2/\text{NDF}$ : 591884.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm4acY\_mean vs Slug



Right In: -7.521+/-3.665  $\chi^2/\text{NDF}$ : 7.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.523+/-3.240  $\chi^2/\text{NDF}$ : 21.0/16

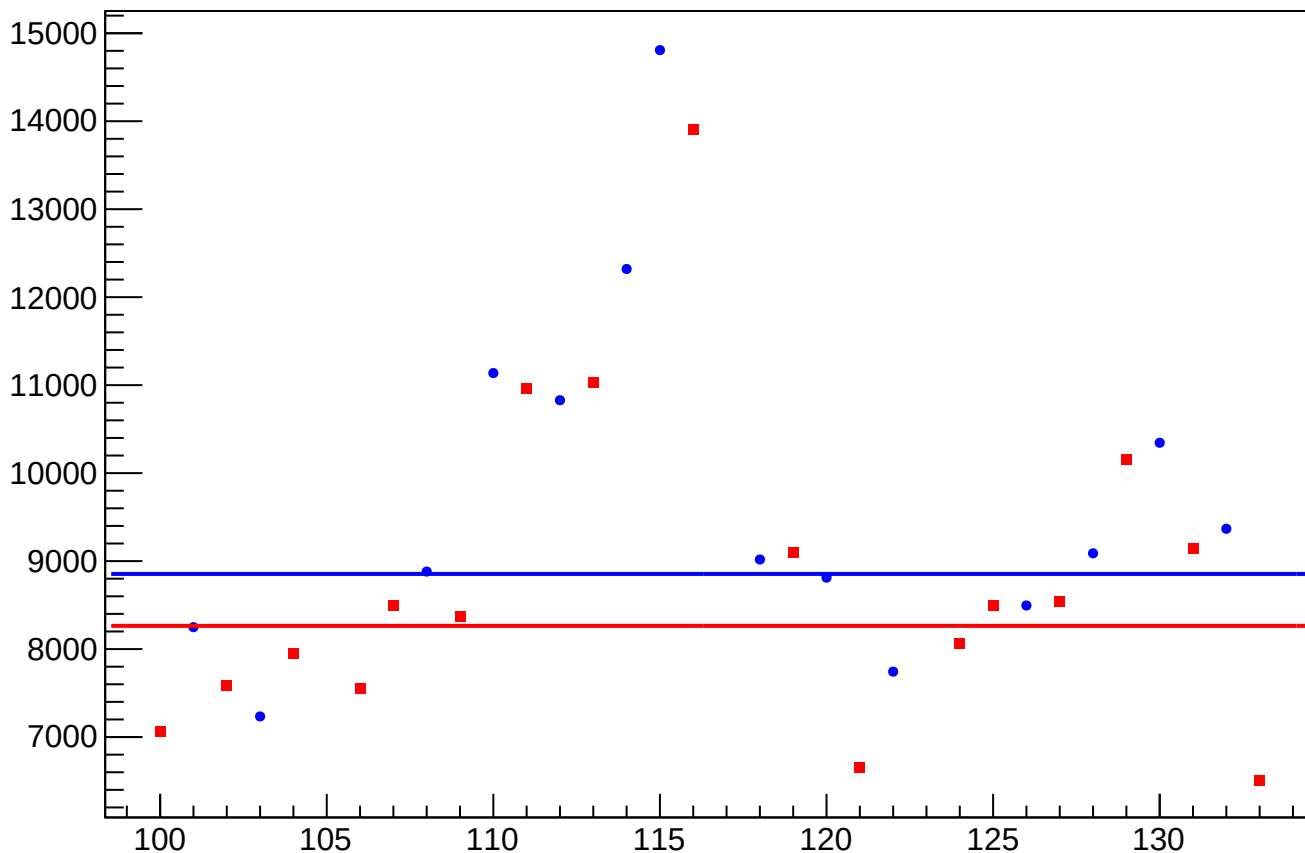
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.760+/-2.427  $\chi^2/\text{NDF}$ : 34.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4acY\_rms vs Slug



Right In: 8854.321+/-2.592  $\chi^2/\text{NDF}$ : 240228.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8263.966+/-2.291  $\chi^2/\text{NDF}$ : 383496.9/16

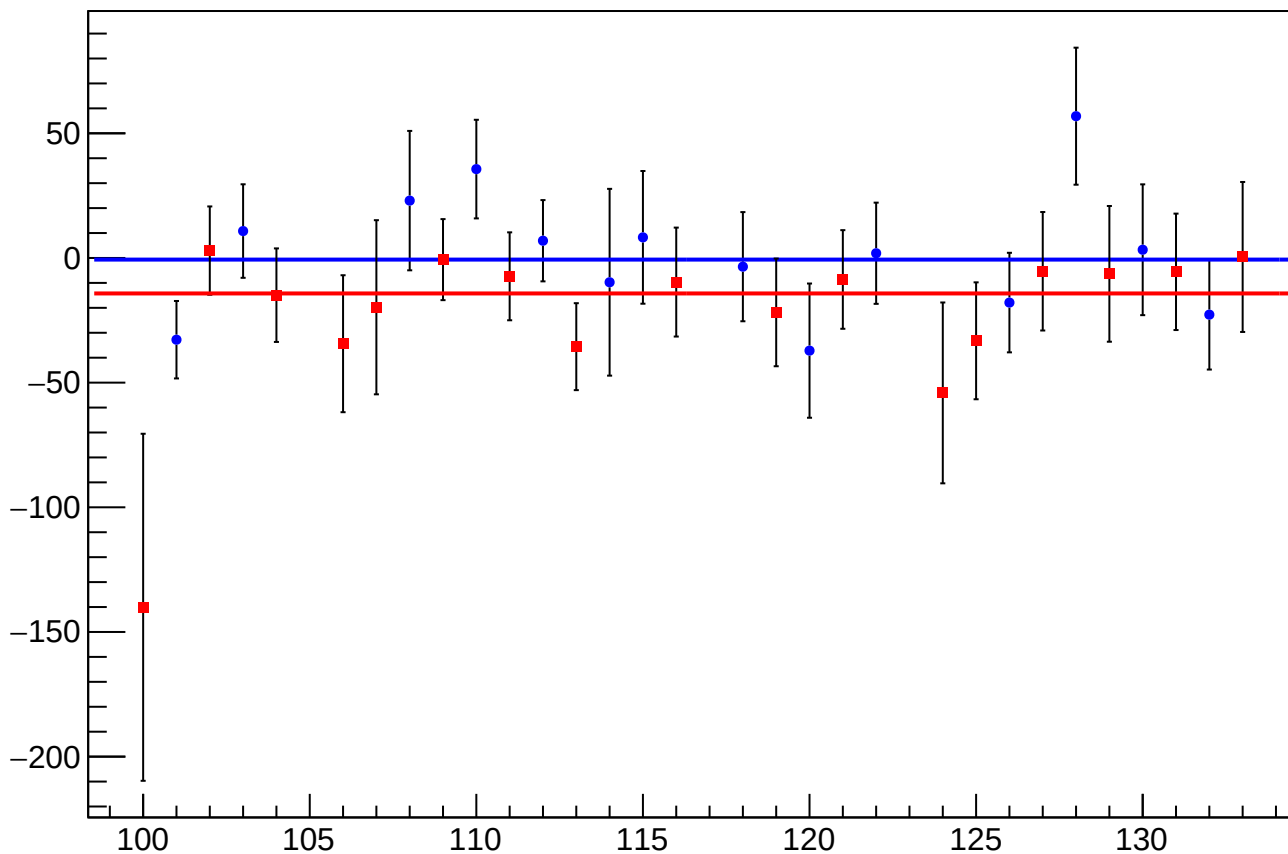
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8522.887+/-1.716  $\chi^2/\text{NDF}$ : 652851.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4ecX\_mean vs Slug



Right In:  $-0.652 \pm 5.778$   $\chi^2/\text{NDF}$ : 17.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-14.229 \pm 5.414$   $\chi^2/\text{NDF}$ : 9.8/16

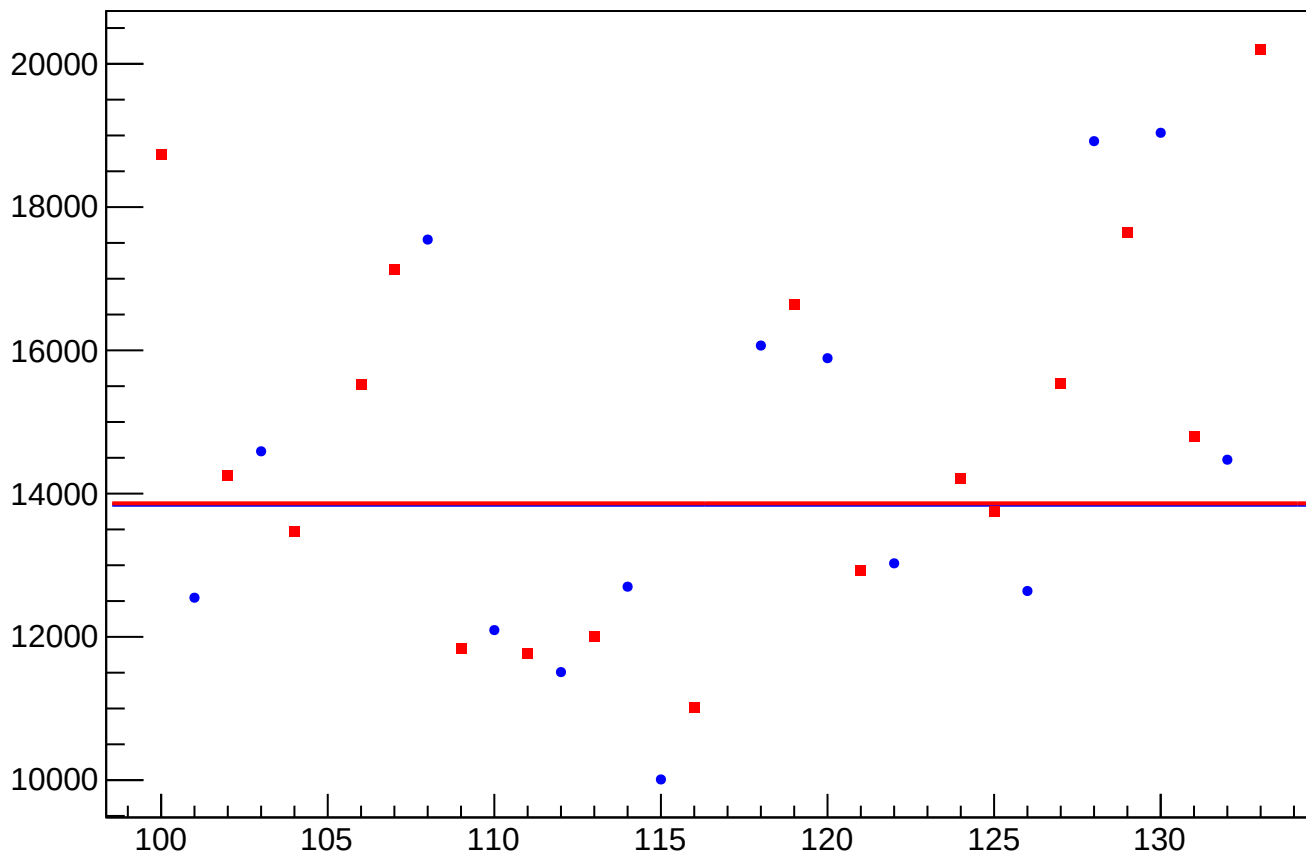
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-7.881 \pm 3.951$   $\chi^2/\text{NDF}$ : 29.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4ecX\_rms vs Slug



Right In: 13844.596 $\pm$ 4.085  $\chi^2$ /NDF: 343291.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 13864.200 $\pm$ 3.829  $\chi^2$ /NDF: 330999.5/16

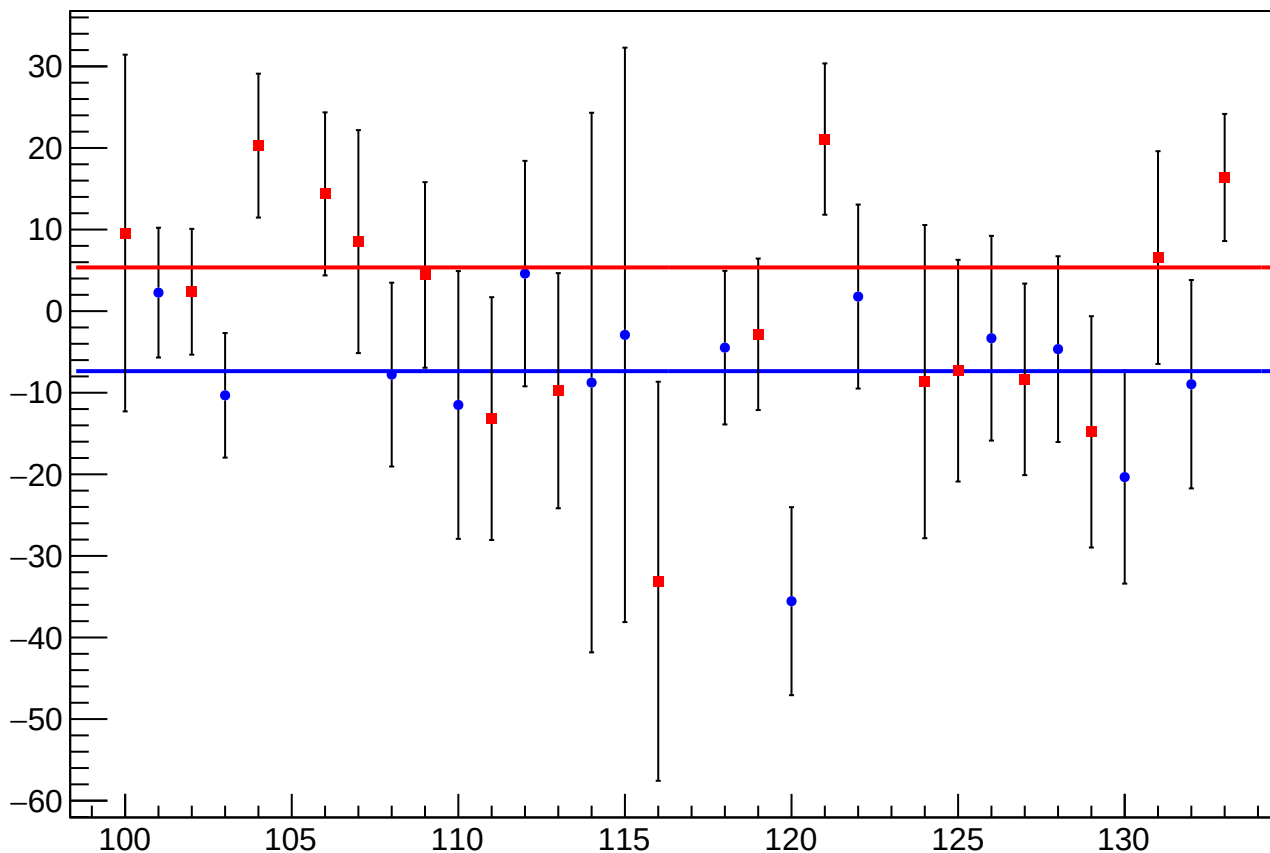
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 13855.034 $\pm$ 2.794  $\chi^2$ /NDF: 674303.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm4ecY\_mean vs Slug



Right In:  $-7.354 \pm 3.097$   $\chi^2/\text{NDF}$ : 10.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $5.359 \pm 2.754$   $\chi^2/\text{NDF}$ : 19.5/16

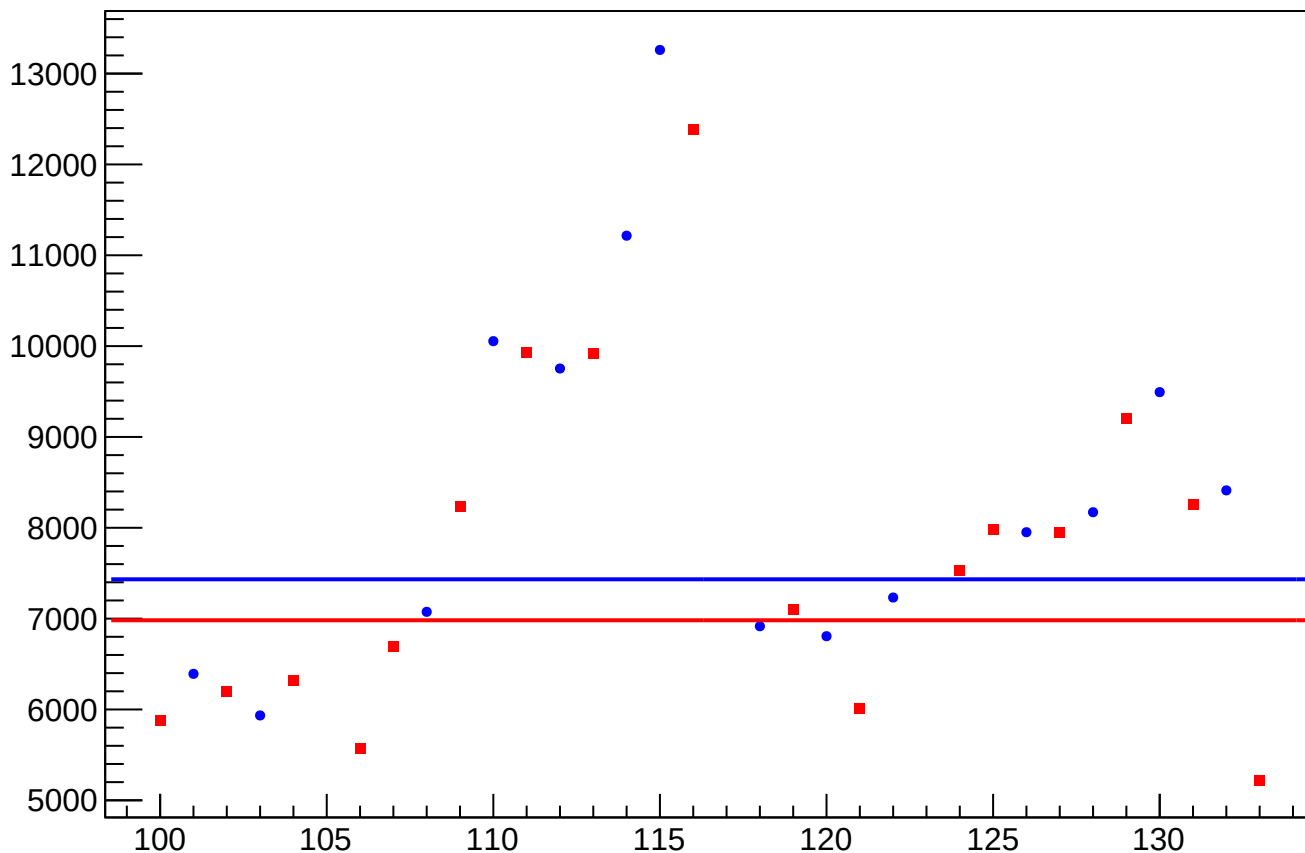
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.256 \pm 2.058$   $\chi^2/\text{NDF}$ : 39.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm4ecY\_rms vs Slug



Right In: 7433.001+/-2.190  $\chi^2/\text{NDF}$ : 387743.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6982.026+/-1.948  $\chi^2/\text{NDF}$ : 579999.6/16

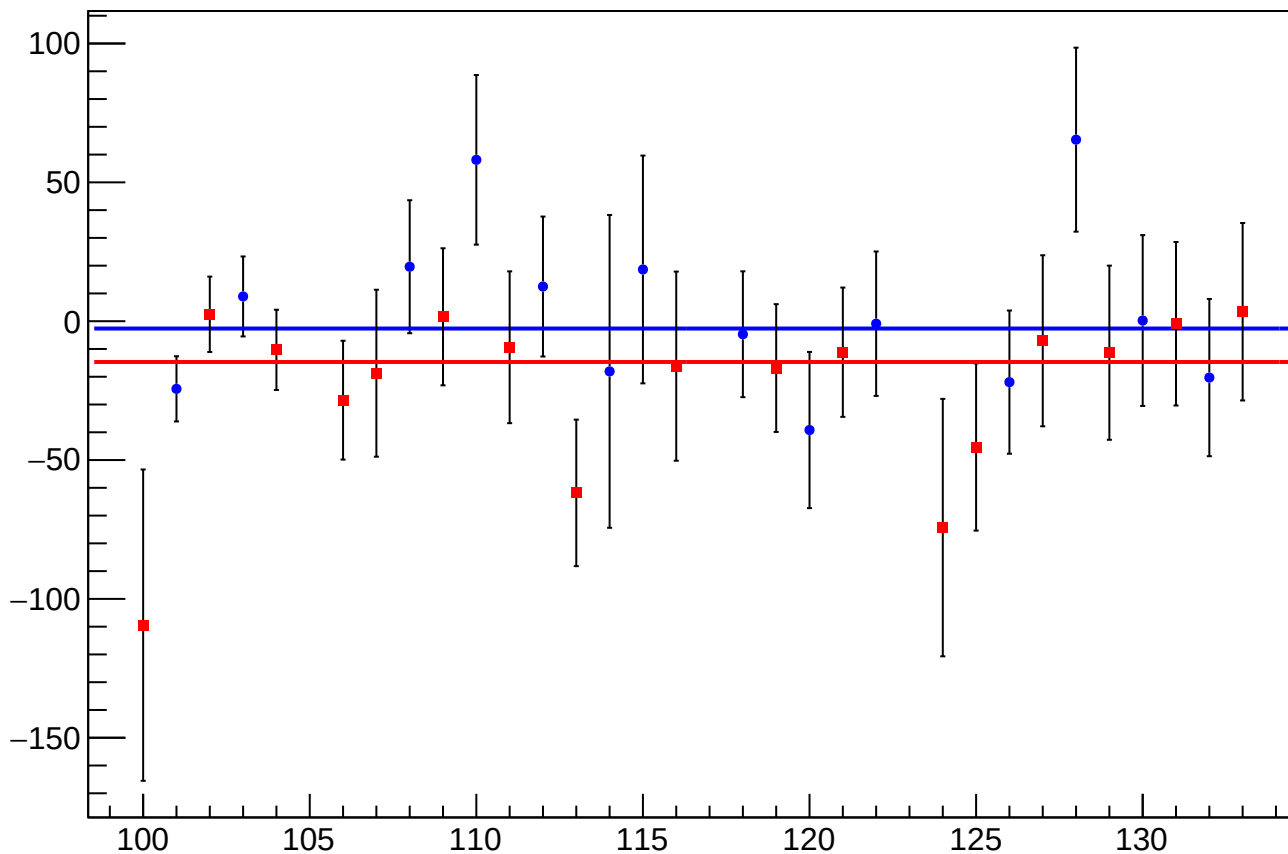
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7181.203+/-1.455  $\chi^2/\text{NDF}$ : 991423.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1X\_mean vs Slug



Right In: -2.640+/-6.109  $\chi^2/\text{NDF}$ : 16.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14.682+/-5.911  $\chi^2/\text{NDF}$ : 12.0/16

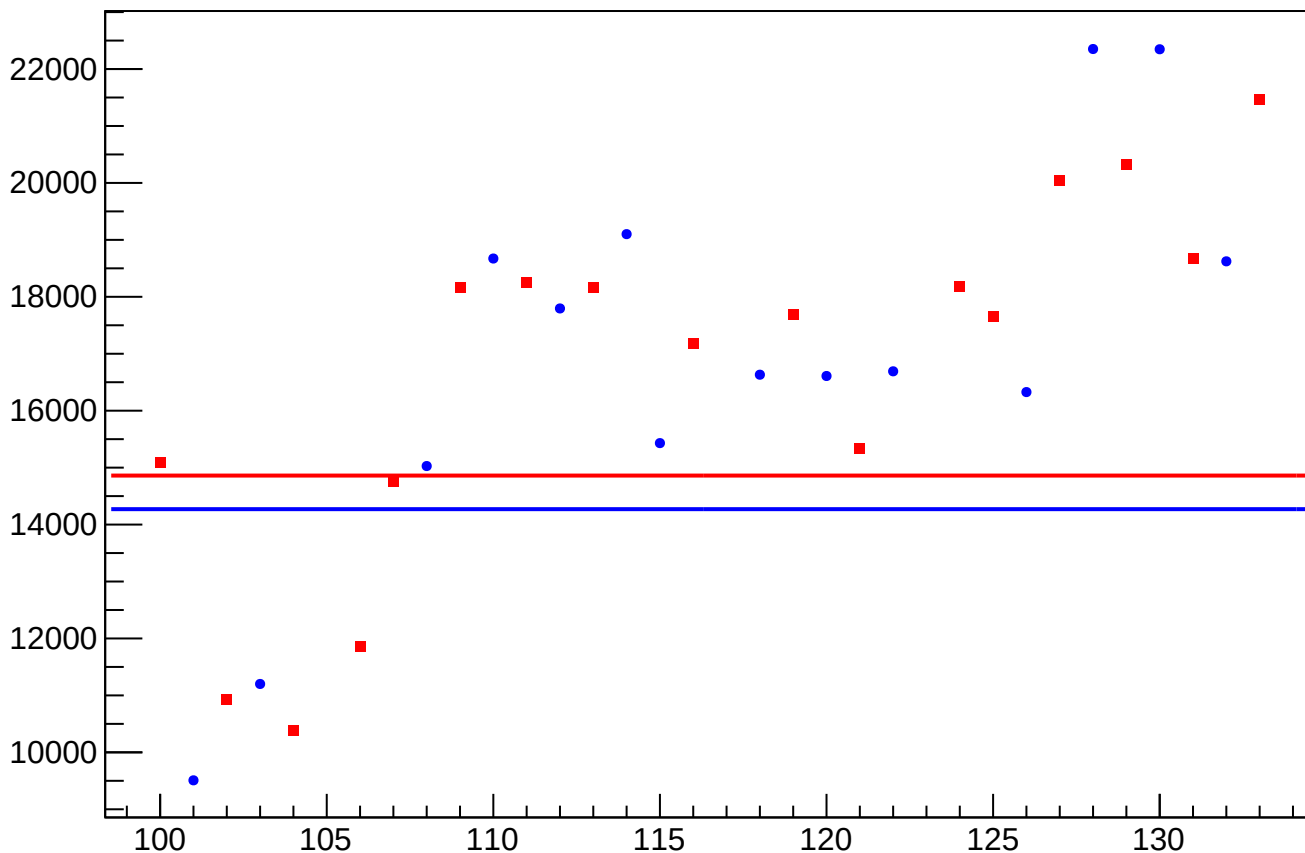
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.859+/-4.248  $\chi^2/\text{NDF}$ : 30.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1X\_rms vs Slug



Right In: 14270.760+/-4.320  $\chi^2/\text{NDF}$ : 888817.2/13

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: 14860.684+/-4.180  $\chi^2/\text{NDF}$ : 802444.7/16

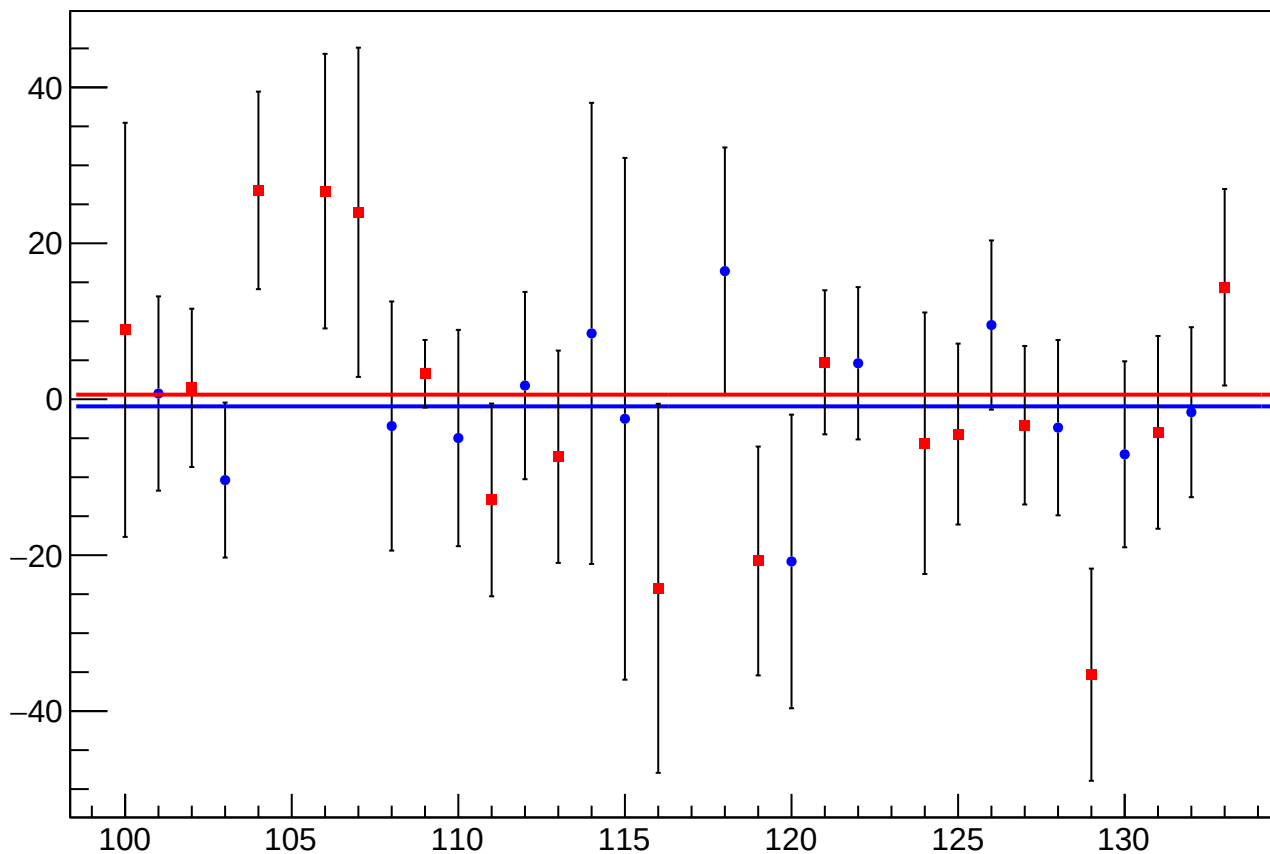
All: 14575.437+/-3.004  $\chi^2/\text{NDF}$ : 1700892.8/3

- 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



# diff\_bpm1Y\_mean vs Slug



Right In:  $-0.912 \pm 3.455$   $\chi^2/\text{NDF}$ : 5.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.589 \pm 2.626$   $\chi^2/\text{NDF}$ : 21.9/16

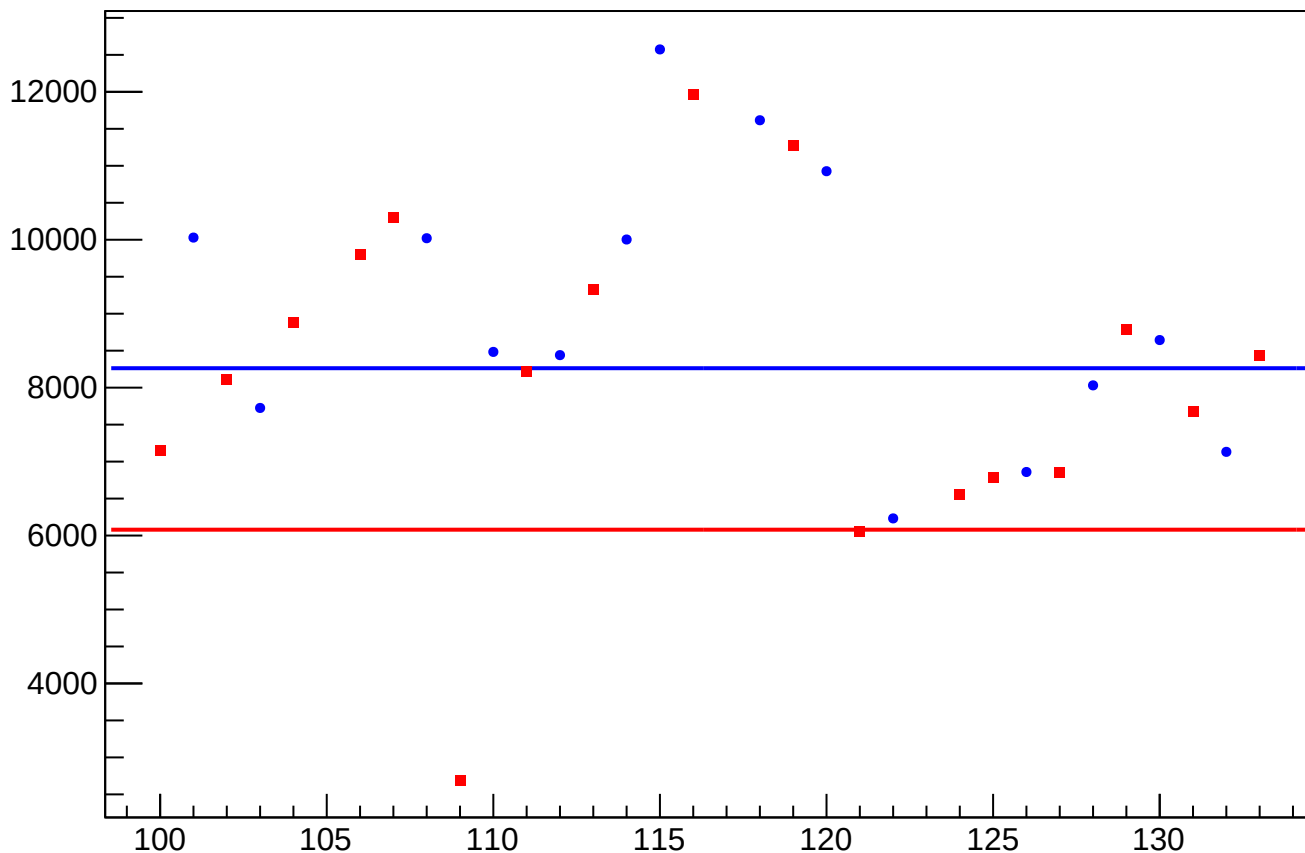
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.040 \pm 2.091$   $\chi^2/\text{NDF}$ : 27.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1Y\_rms vs Slug



Right In: 8262.835 $\pm$ 2.443  $\chi^2$ /NDF: 385087.1/13

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

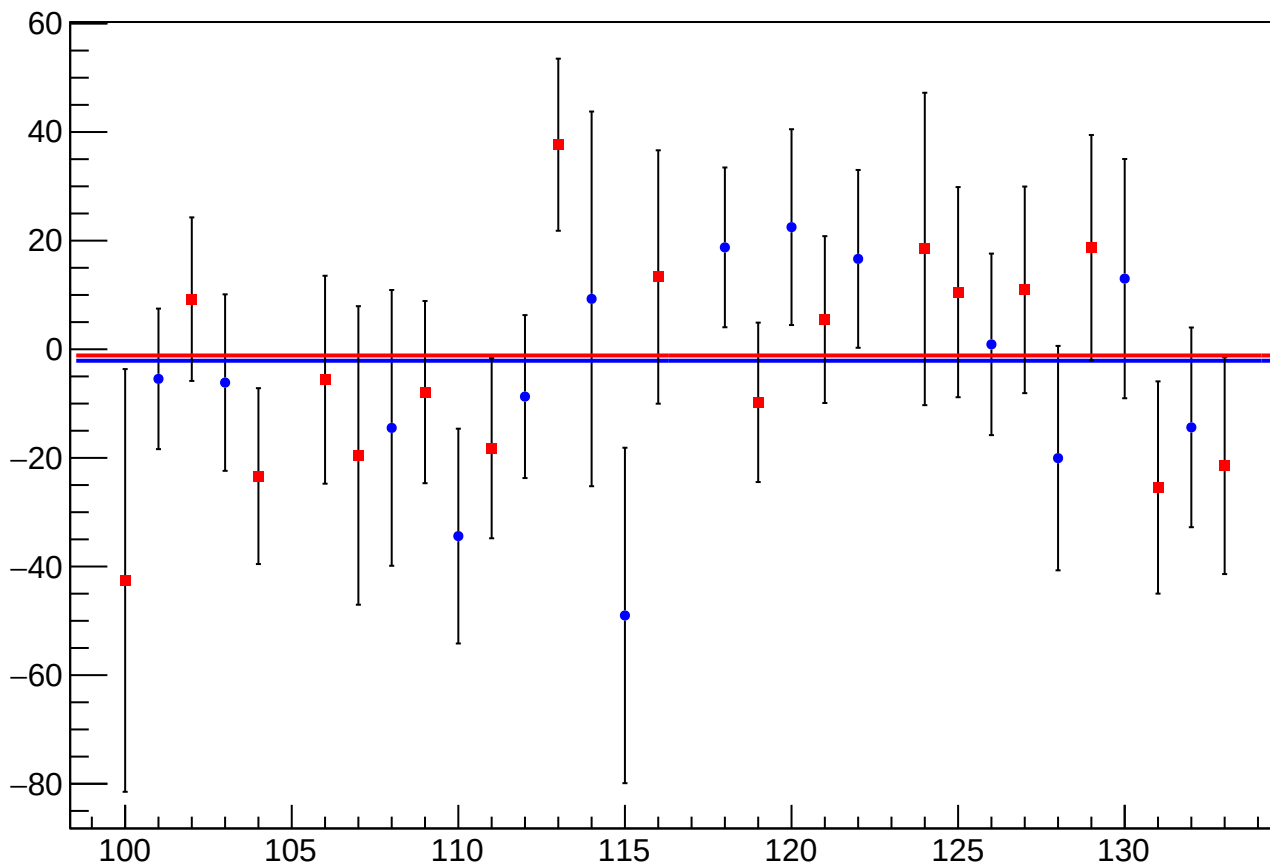
Right Out: 6079.260 $\pm$ 1.857  $\chi^2$ /NDF: 2326377.9/16

All: 6878.841 $\pm$ 1.478  $\chi^2$ /NDF: 3217771.6/30

- 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: -2.112+/-4.846  $\chi^2$ /NDF: 12.5/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.143+/-4.521  $\chi^2$ /NDF: 16.9/16

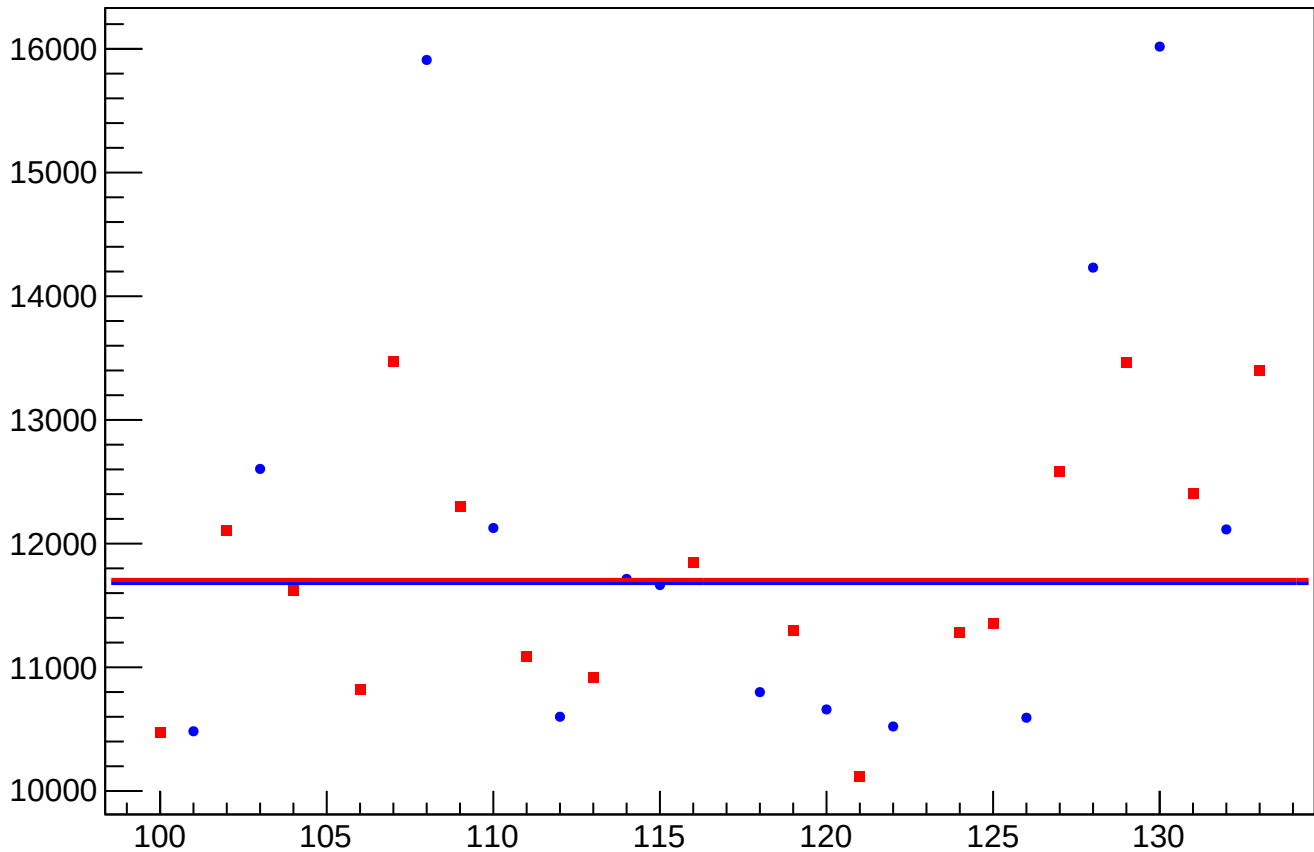
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1.594+/-3.306  $\chi^2$ /NDF: 29.4/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm11X\_rms vs Slug



Right In: 11681.112+/-3.427  $\chi^2/\text{NDF}$ : 231797.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11706.785+/-3.197  $\chi^2/\text{NDF}$ : 85859.1/16

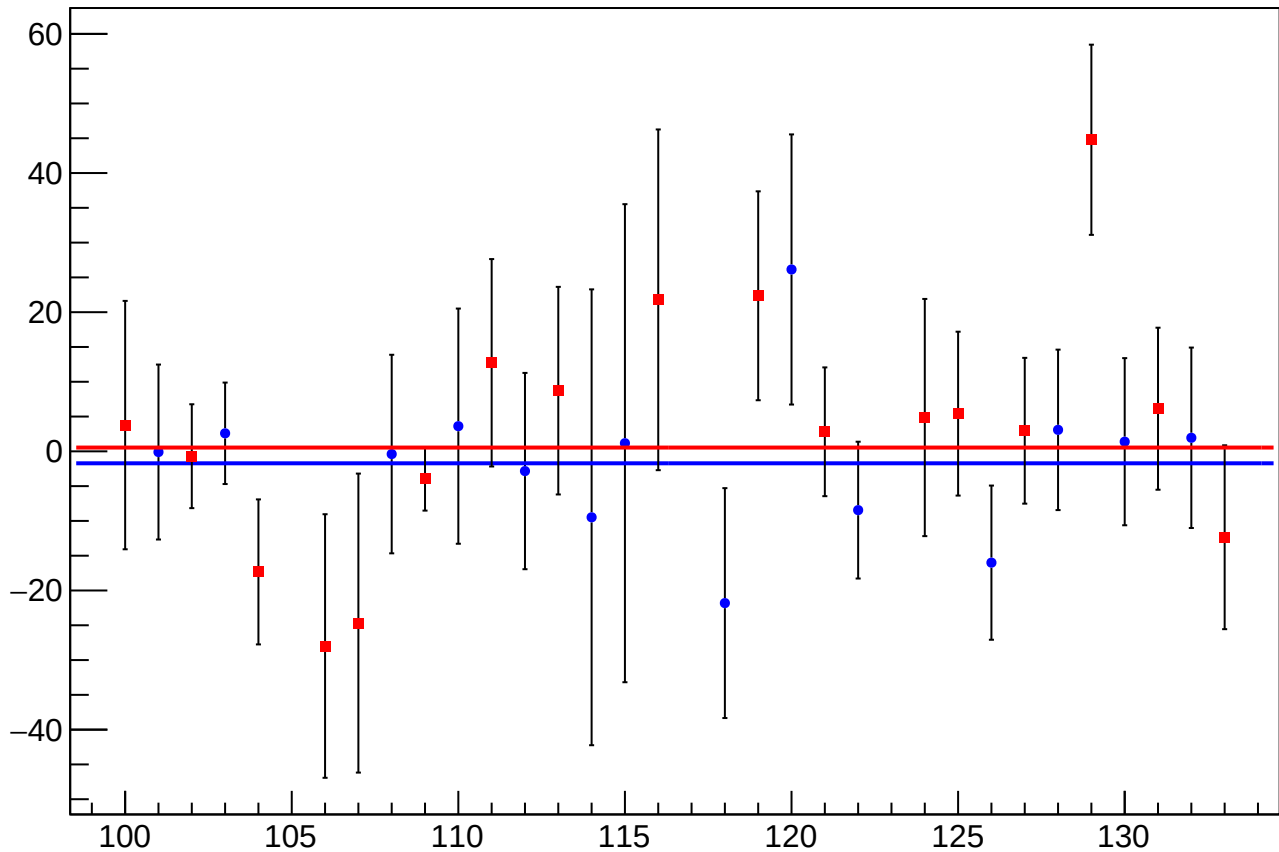
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11694.839+/-2.338  $\chi^2/\text{NDF}$ : 317686.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm11Y\_mean vs Slug



Right In: -1.719+/-3.419  $\chi^2/\text{NDF}$ : 6.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.543+/-2.598  $\chi^2/\text{NDF}$ : 23.5/16

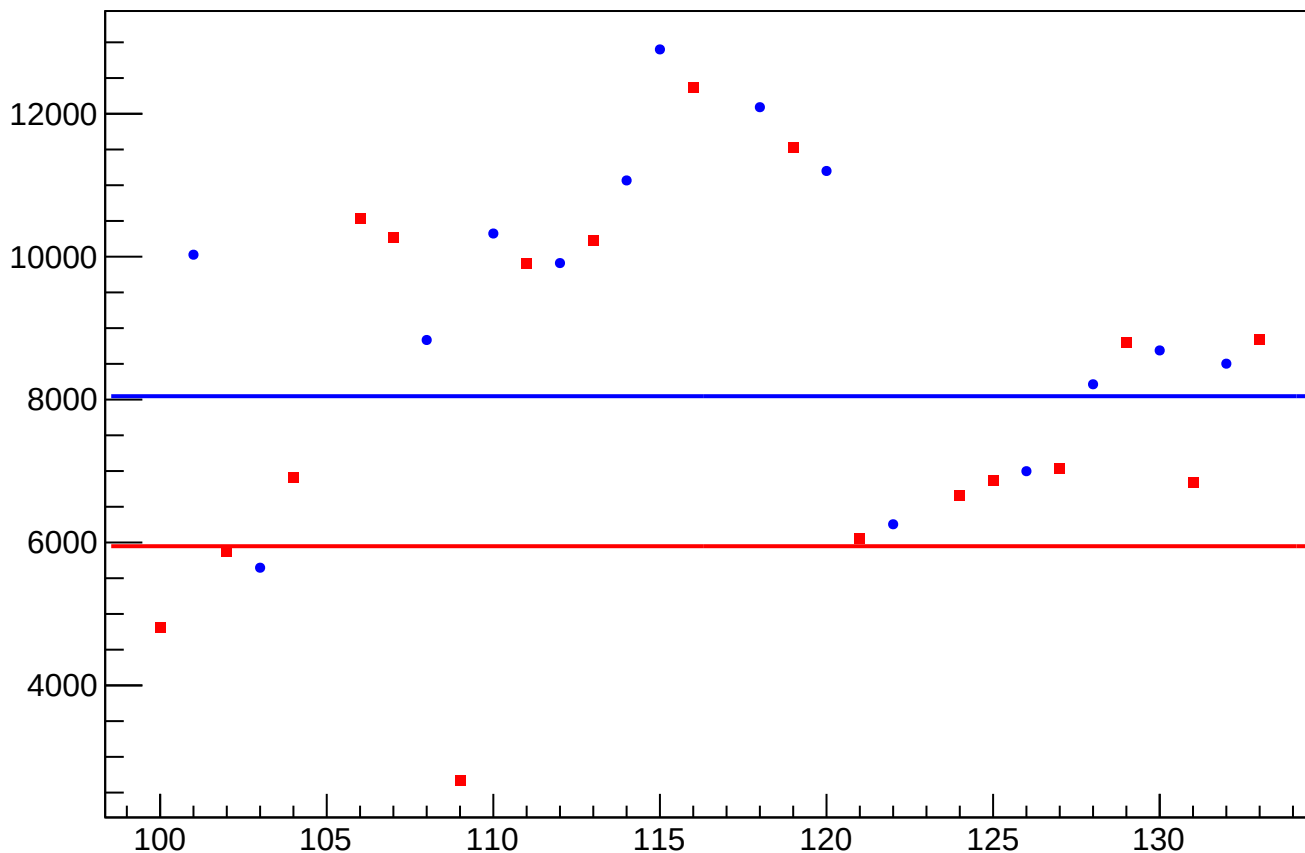
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.285+/-2.068  $\chi^2/\text{NDF}$ : 30.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm11Y\_rms vs Slug



Right In: 8047.421+/-2.417  $\chi^2/\text{NDF}$ : 666111.9/13

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

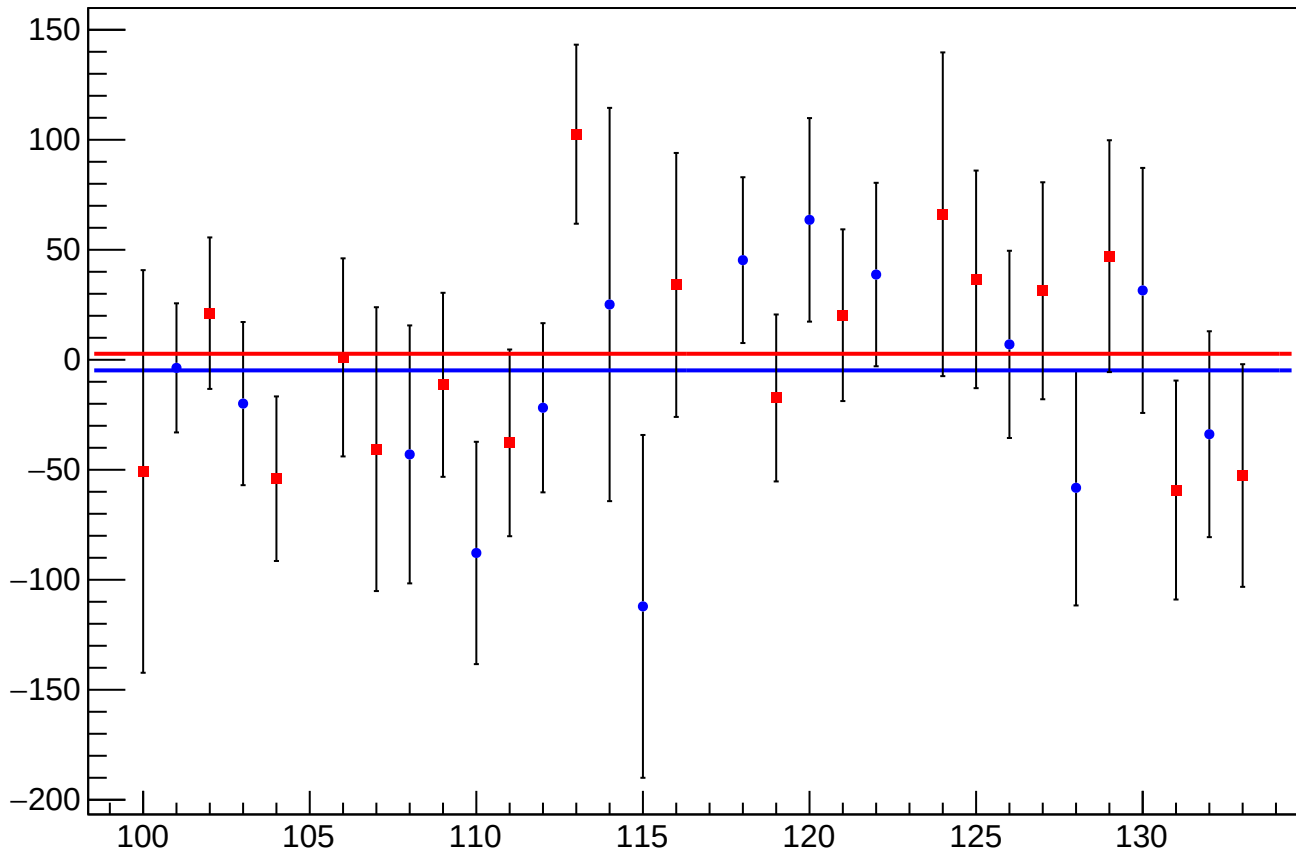
Right Out: 5948.032+/-1.837  $\chi^2/\text{NDF}$ : 2207005.0/16

All: 6716.471+/-1.463  $\chi^2/\text{NDF}$ : 3351241.4/30

- 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:  $-4.821 \pm 11.982$   $\chi^2/\text{NDF}$ : 12.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $2.733 \pm 11.229$   $\chi^2/\text{NDF}$ : 16.2/16

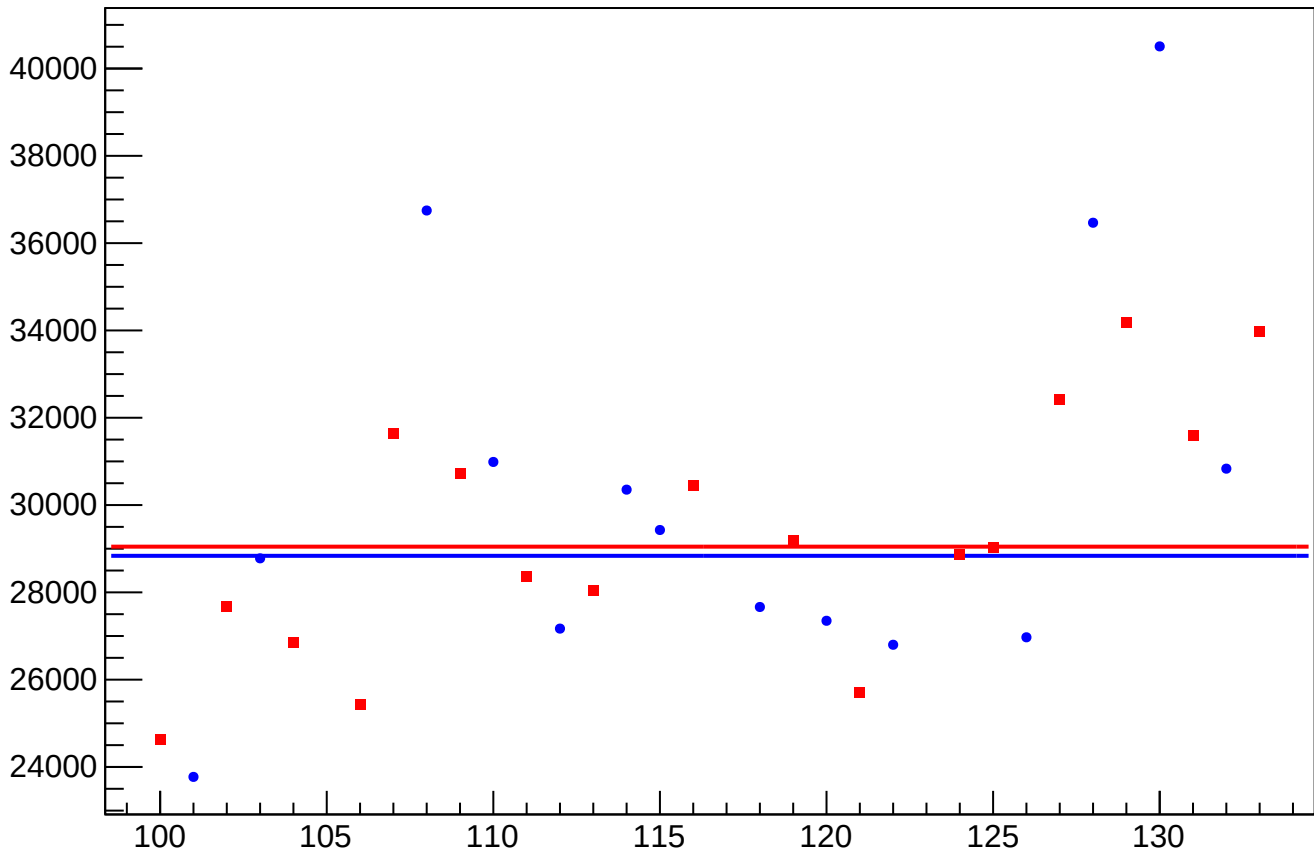
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.799 \pm 8.194$   $\chi^2/\text{NDF}$ : 28.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm12X\_rms vs Slug



Right In:  $28836.922 \pm 8.473$   $\chi^2/\text{NDF}: 248867.9/13$

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:  $29047.005 \pm 7.940$   $\chi^2/\text{NDF}: 104060.6/16$

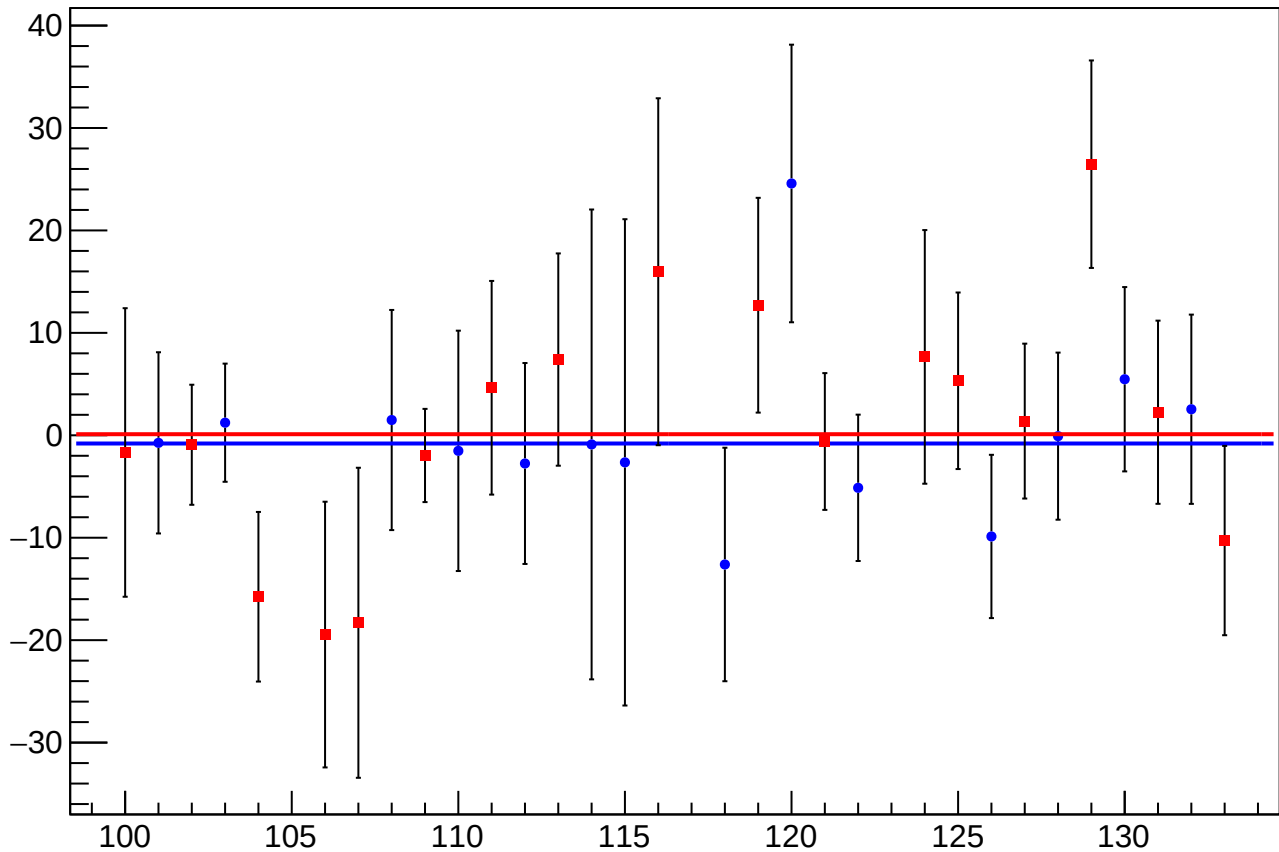
All:  $28948.771 \pm 5.794$   $\chi^2/\text{NDF}: 353255.8/30$

- 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\_bpm12Y\_mean vs Slug



Right In:  $-0.802 \pm 2.497$   $\chi^2/\text{NDF}$ : 7.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.107 \pm 2.075$   $\chi^2/\text{NDF}$ : 19.6/16

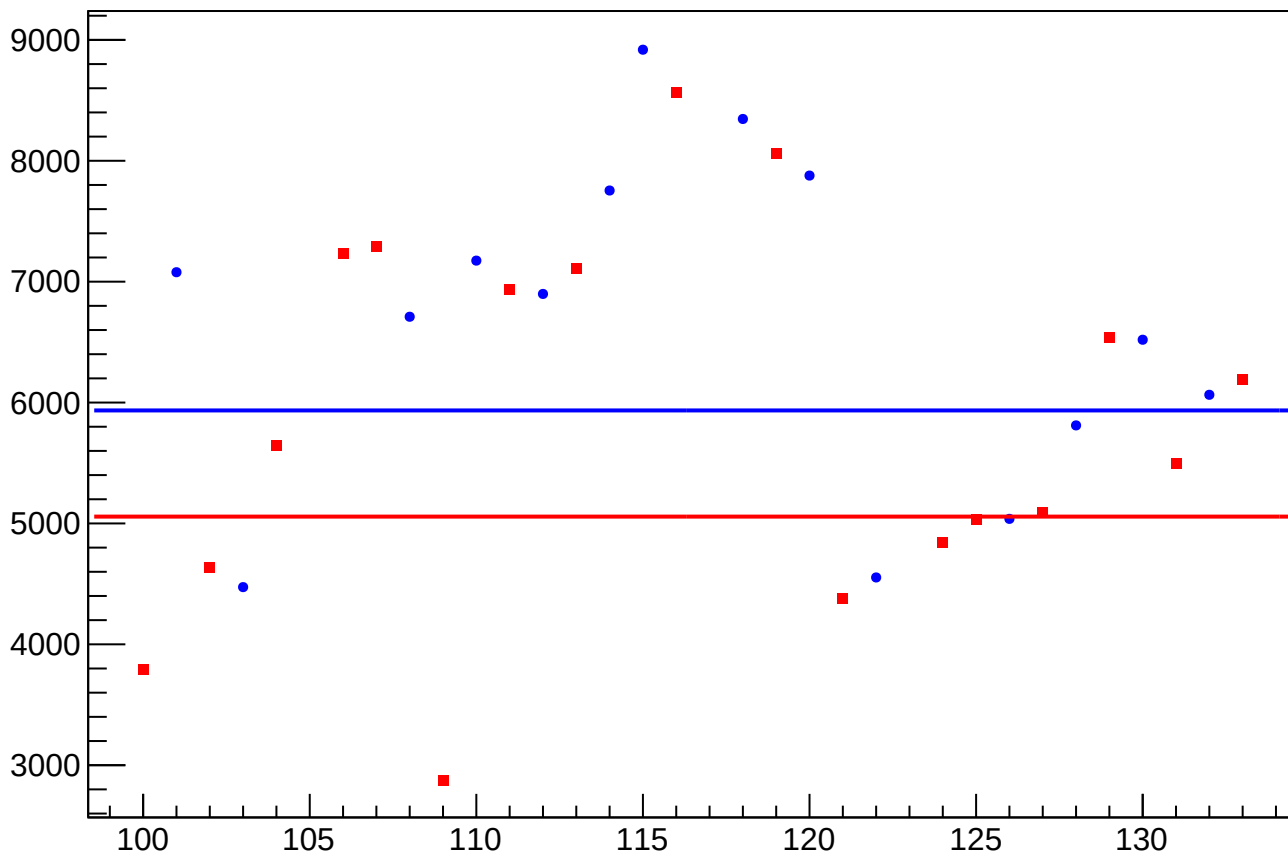
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.264 \pm 1.596$   $\chi^2/\text{NDF}$ : 26.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm12Y\_rms vs Slug



Right In: 5934.772+/-1.765  $\chi^2/\text{NDF}$ : 498167.5/13

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

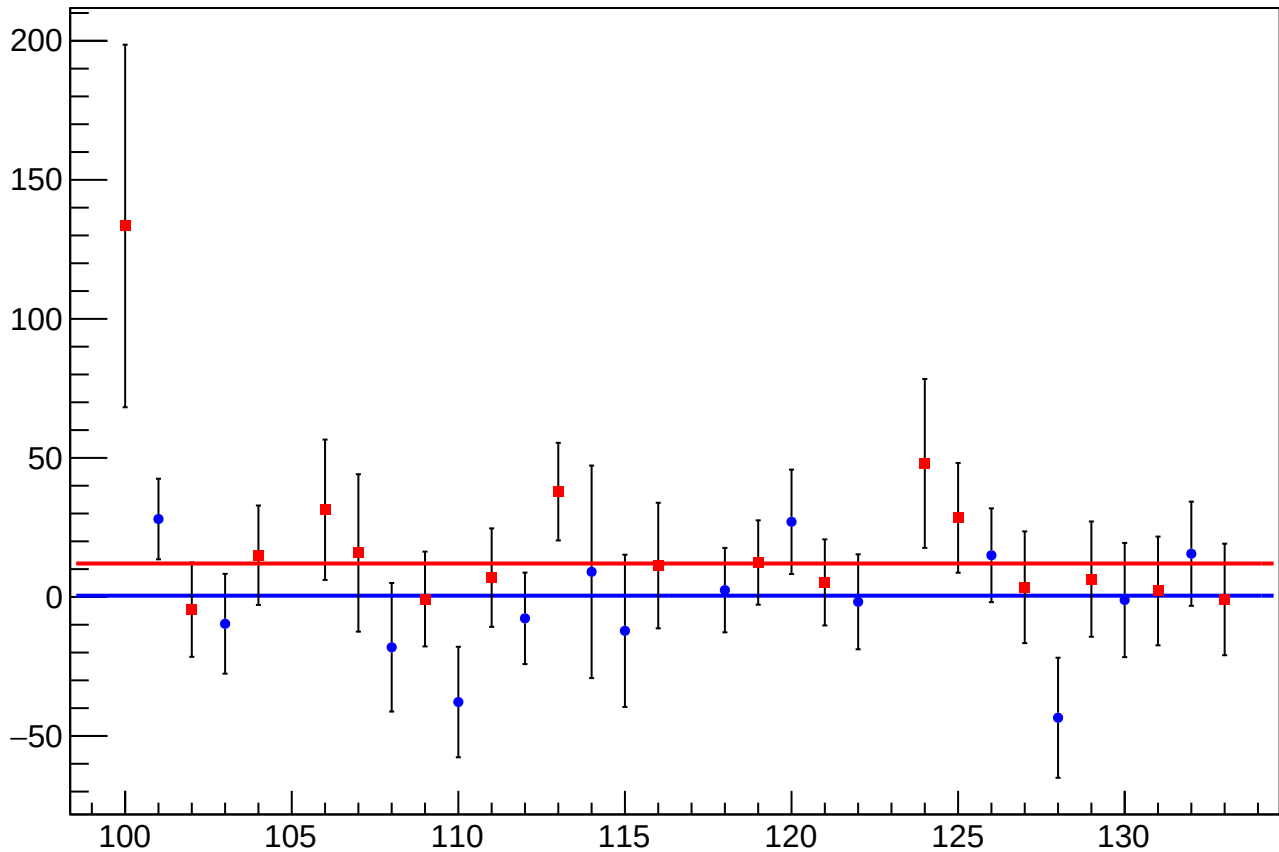
Right Out: 5056.518+/-1.467  $\chi^2/\text{NDF}$ : 1089011.8/16

All: 5415.248+/-1.128  $\chi^2/\text{NDF}$ : 1733574.0/30

- 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\_bpm16X\_mean vs Slug



Right In:  $0.451 \pm 5.033$   $\chi^2/\text{NDF}$ : 16.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $12.018 \pm 4.791$   $\chi^2/\text{NDF}$ : 11.1/16

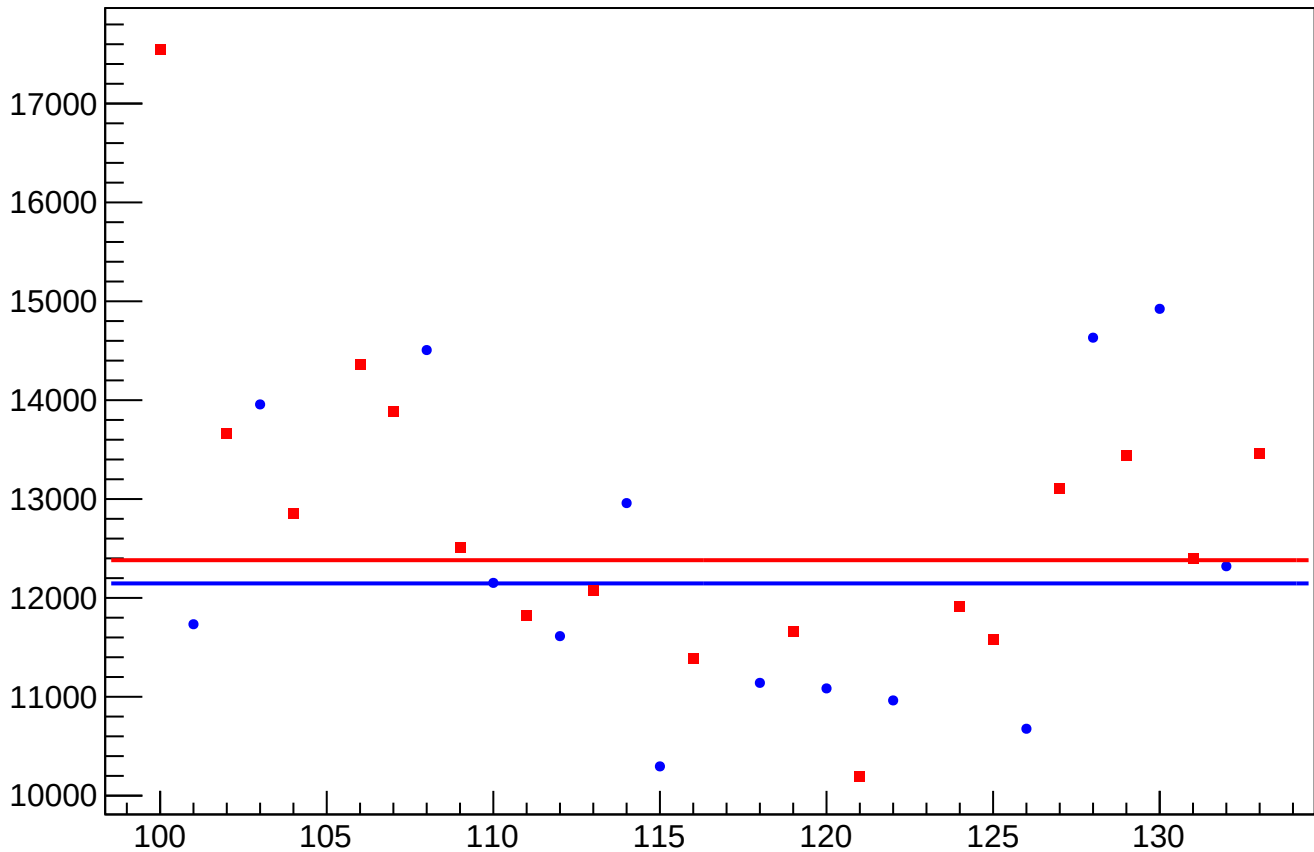
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $6.519 \pm 3.470$   $\chi^2/\text{NDF}$ : 30.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm16X\_rms vs Slug



Right In: 12146.625+/-3.559  $\chi^2/\text{NDF}$ : 158161.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12381.518+/-3.388  $\chi^2/\text{NDF}$ : 111788.8/16

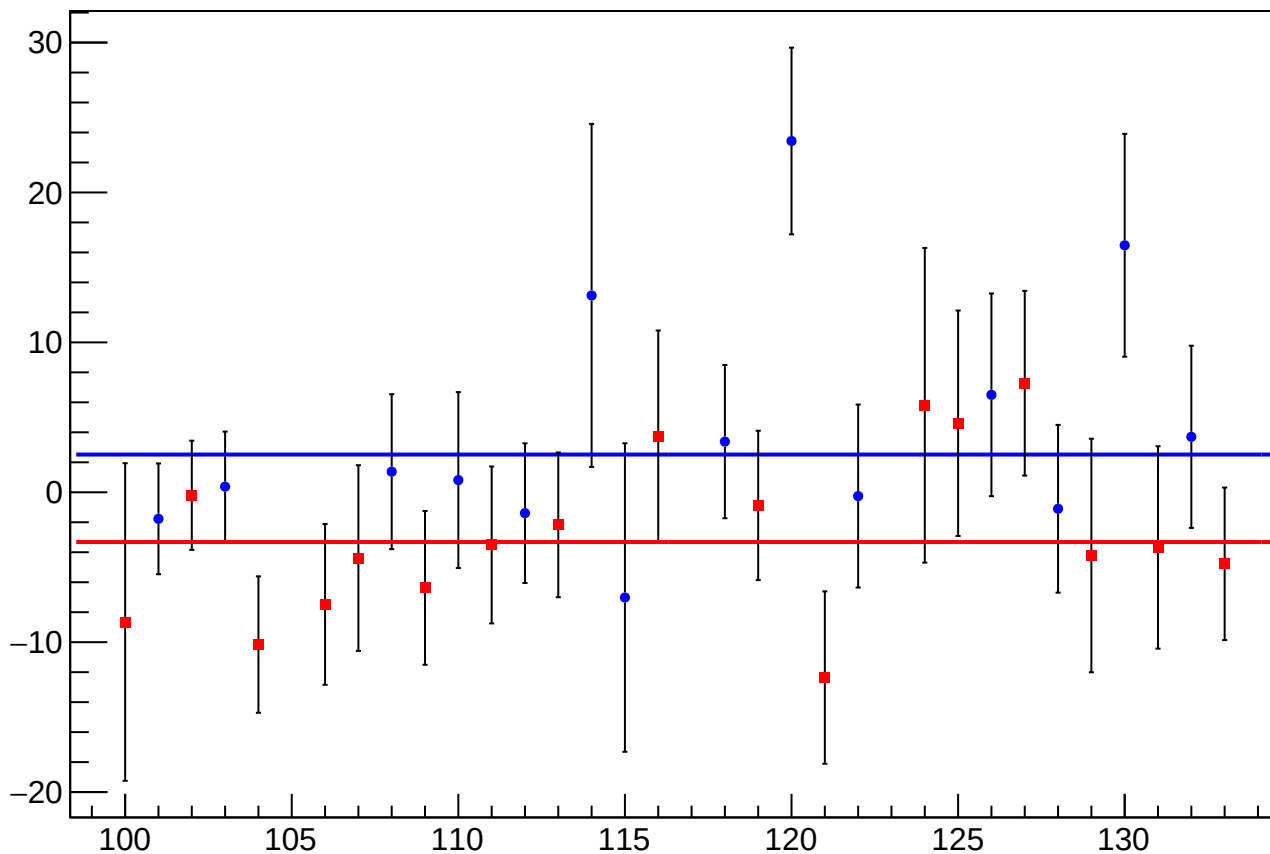
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12269.860+/-2.454  $\chi^2/\text{NDF}$ : 272235.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm16Y\_mean vs Slug



Right In: 2.517+/-1.463  $\chi^2/\text{NDF}$ : 20.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.316+/-1.371  $\chi^2/\text{NDF}$ : 12.9/16

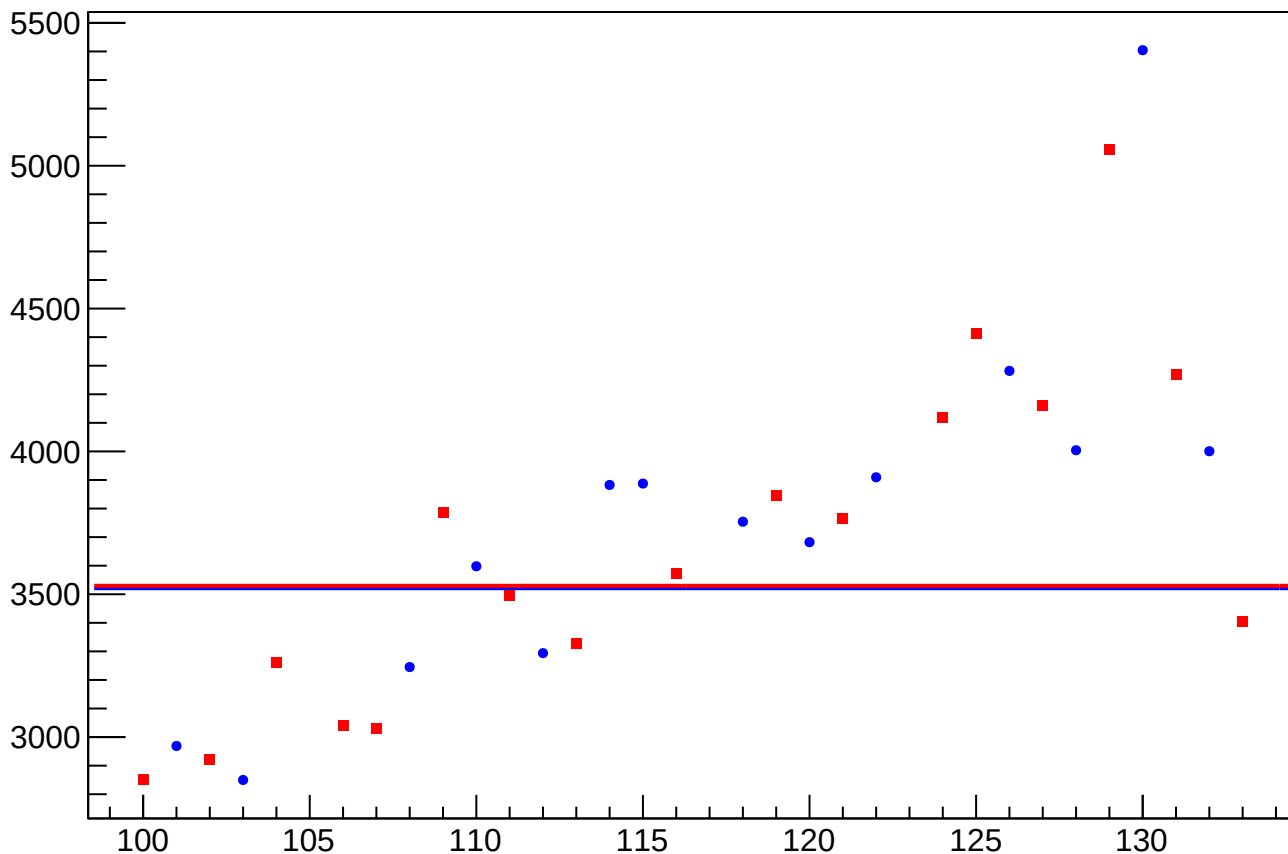
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.589+/-1.001  $\chi^2/\text{NDF}$ : 41.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm16Y\_rms vs Slug



Right In: 3521.235+/-1.035  $\chi^2/\text{NDF}$ : 321422.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3529.594+/-0.970  $\chi^2/\text{NDF}$ : 277728.5/16

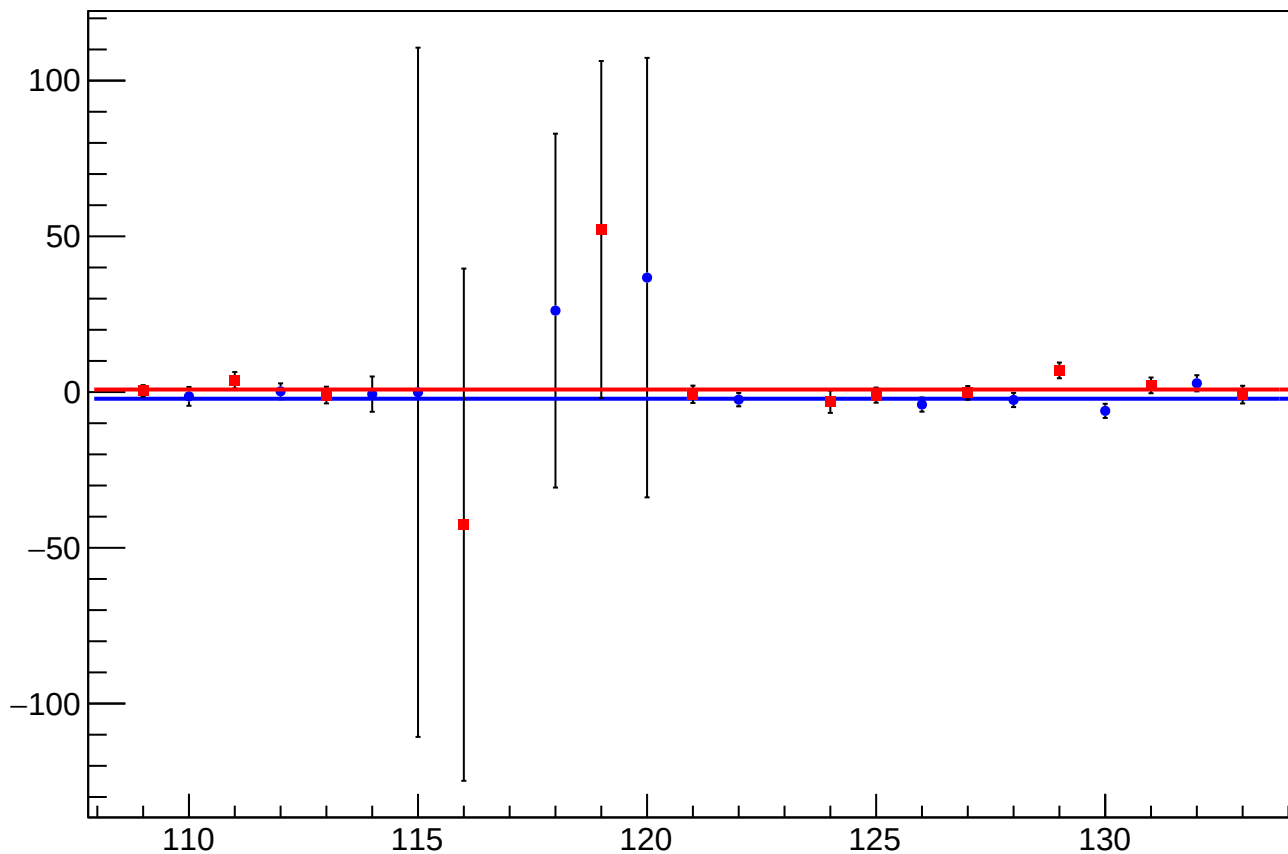
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3525.685+/-0.708  $\chi^2/\text{NDF}$ : 599185.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1p02bX\_mean vs Slug



Right In:  $-2.136 \pm 0.900$   $\chi^2/\text{NDF}$ : 8.9/10

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.824 \pm 0.792$   $\chi^2/\text{NDF}$ : 11.8/11

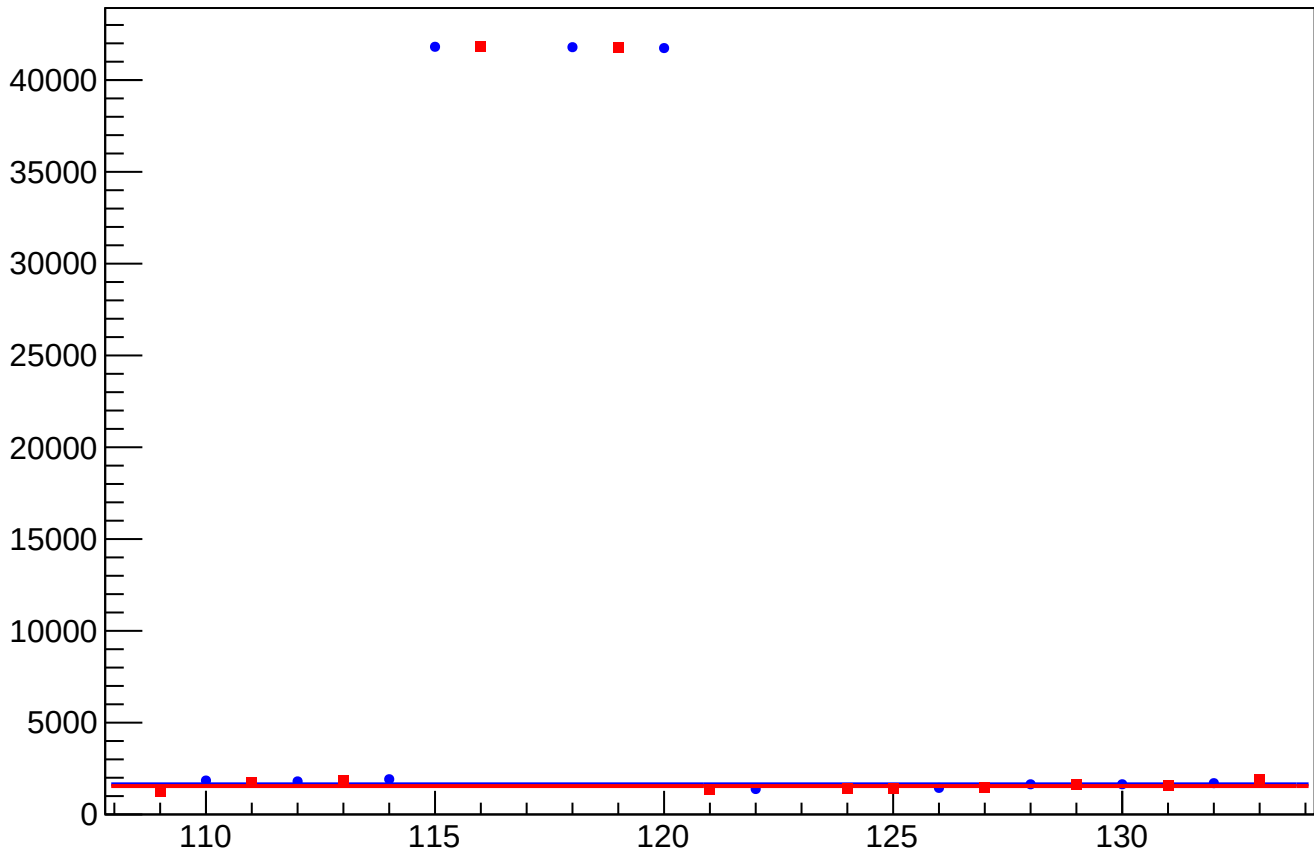
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.468 \pm 0.595$   $\chi^2/\text{NDF}$ : 26.8/22

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1p02bX\_rms vs Slug



Right In: 1639.432 $\pm$ 0.637  $\chi^2$ /NDF: 1974594.7/10

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1546.059 $\pm$ 0.560  $\chi^2$ /NDF: 1730646.9/11

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

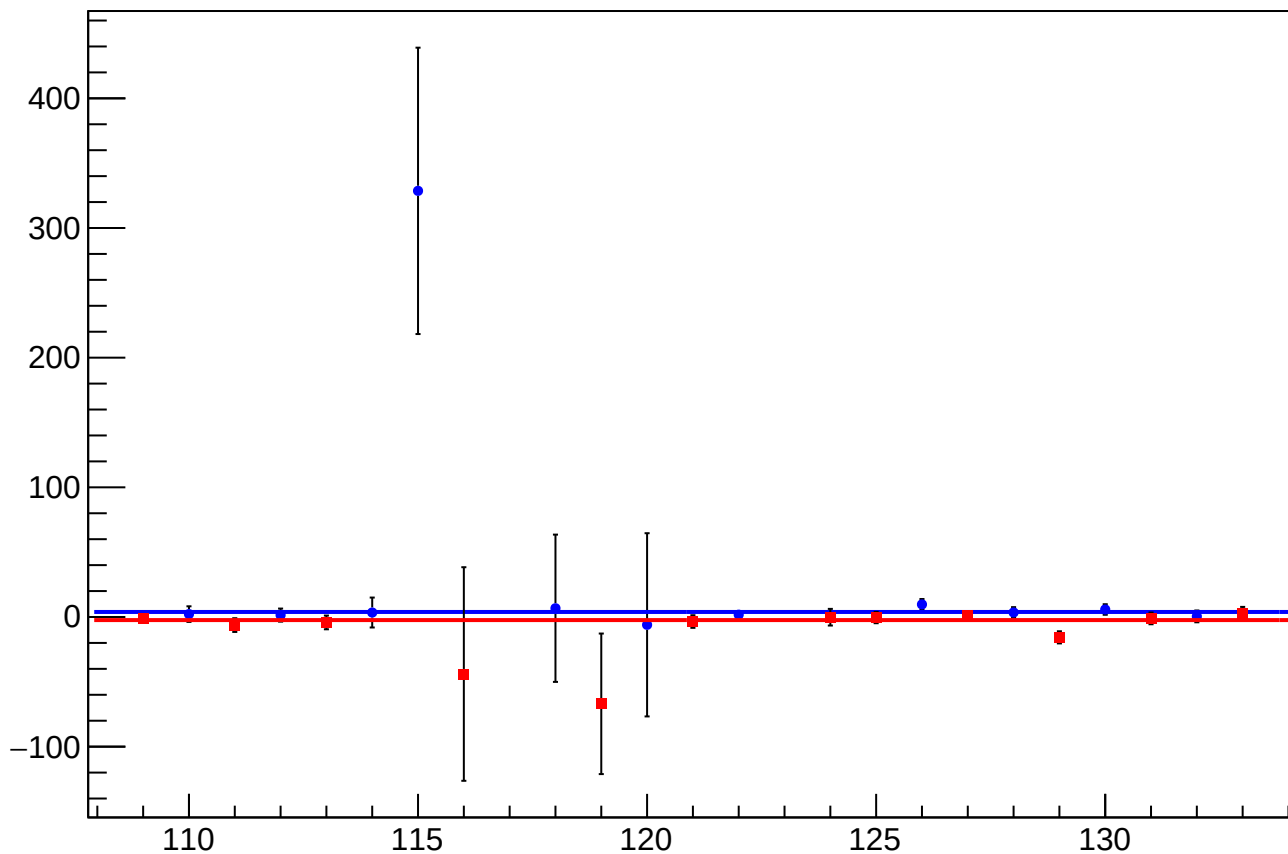
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1586.817 $\pm$ 0.421  $\chi^2$ /NDF: 3717367.5/22

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm1p02bY\_mean vs Slug



Right In: 3.877 $\pm$ 1.641  $\chi^2$ /NDF: 12.0/10

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.386 $\pm$ 1.391  $\chi^2$ /NDF: 13.3/11

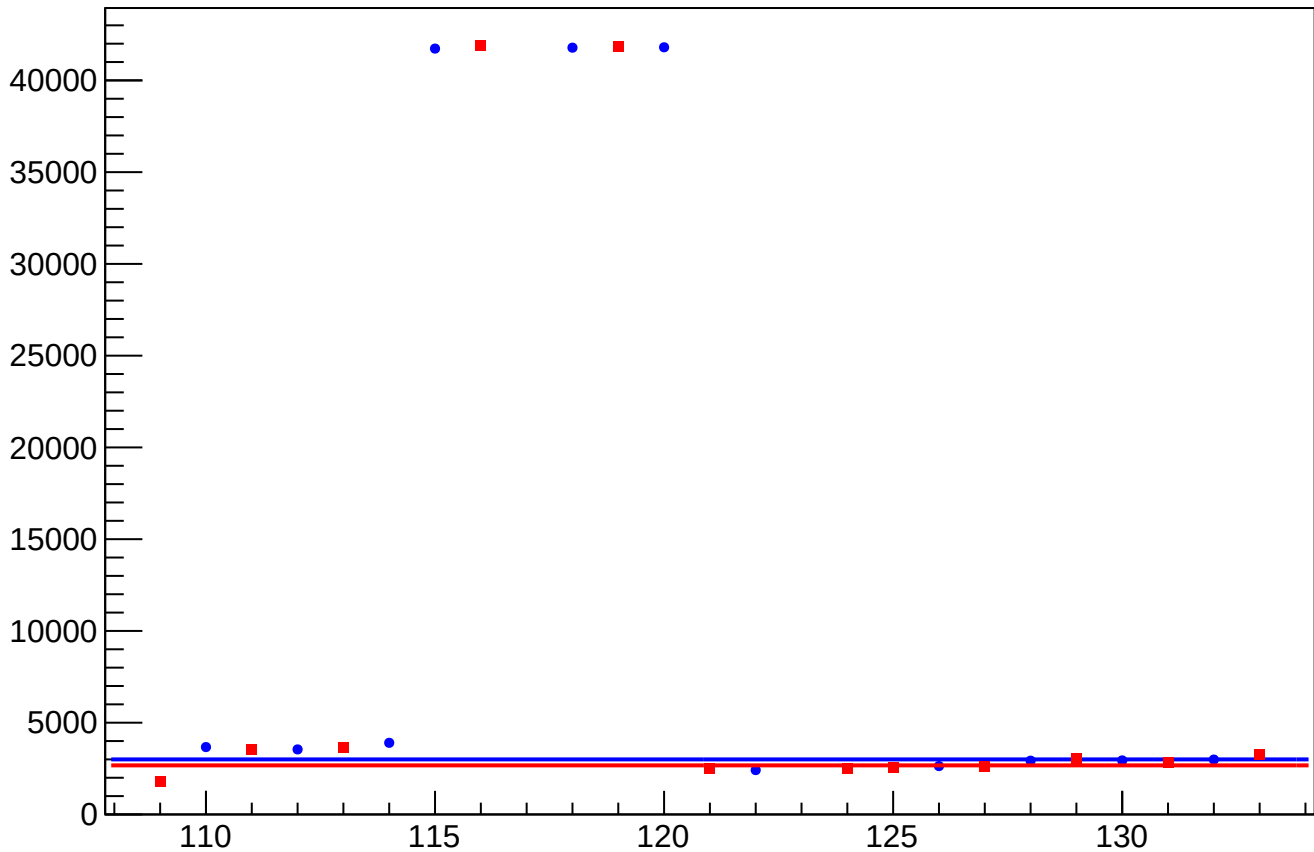
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.233 $\pm$ 1.061  $\chi^2$ /NDF: 33.8/22

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1p02bY\_rms vs Slug



Right In: 3000.066+/-1.160  $\chi^2/\text{NDF}$ : 1906255.7/10

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2674.715+/-0.984  $\chi^2/\text{NDF}$ : 1859501.5/11

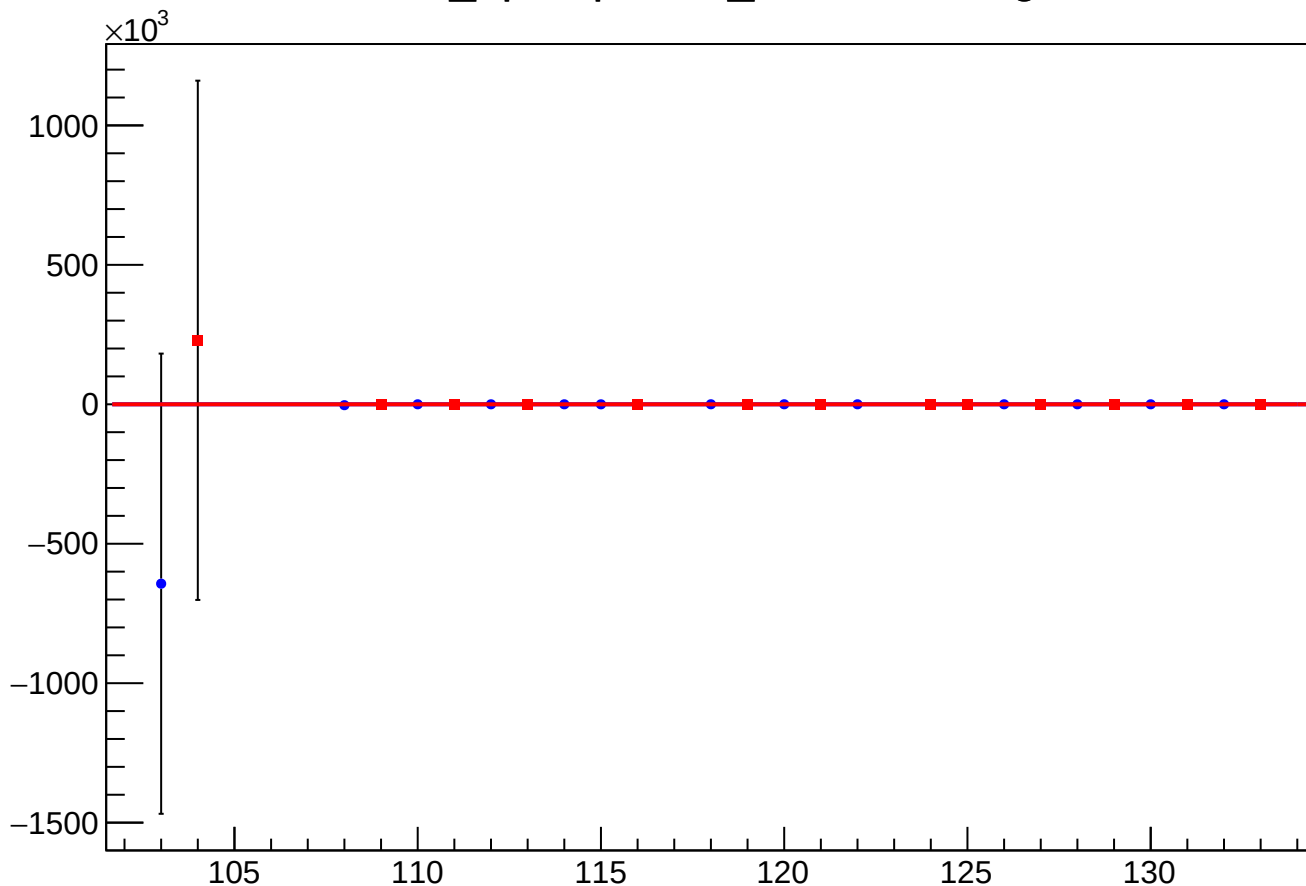
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2810.779+/-0.750  $\chi^2/\text{NDF}$ : 3811493.0/22

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1p03aX\_mean vs Slug



Right In: 1.592 $\pm$ 1.637  $\chi^2$ /NDF: 13.0/12

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.905 $\pm$ 1.506  $\chi^2$ /NDF: 12.5/12

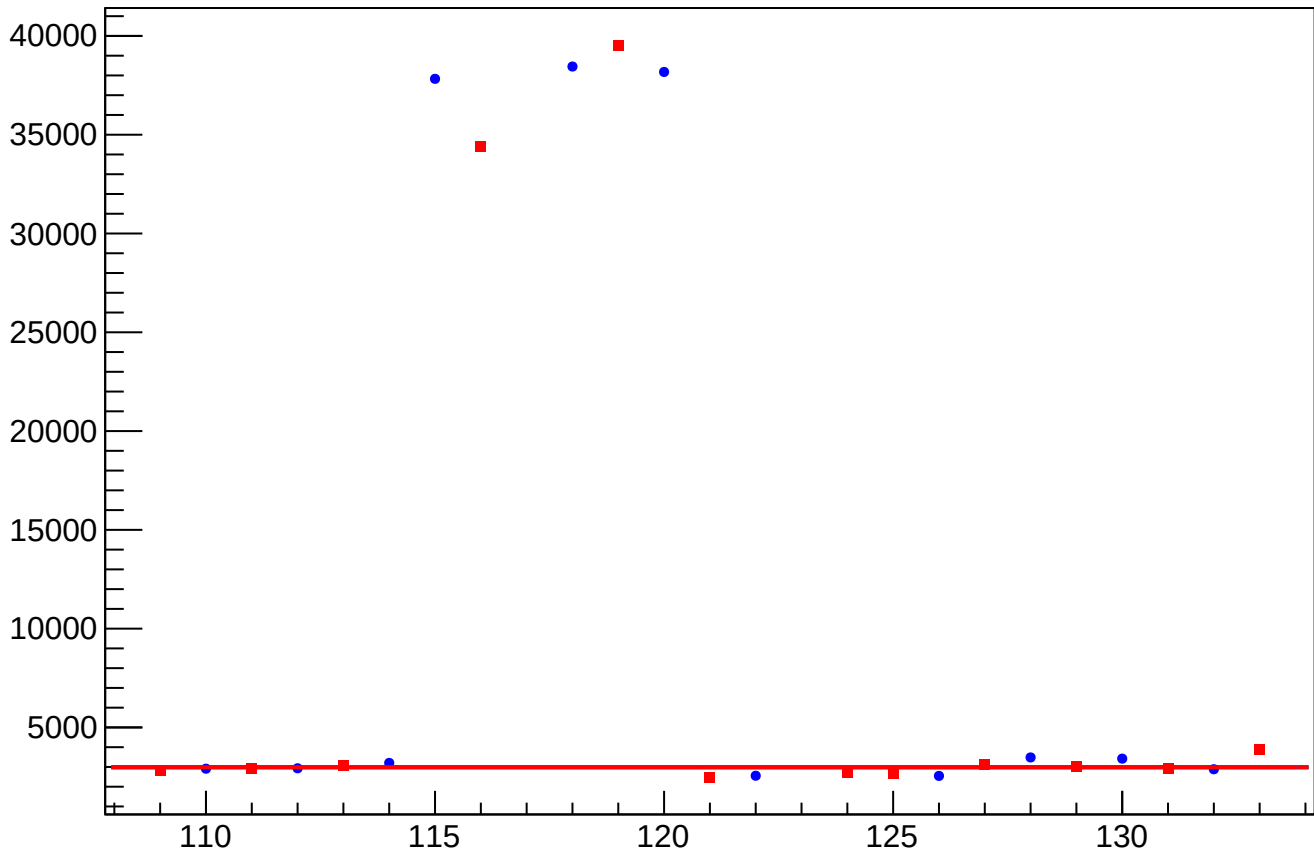
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.386 $\pm$ 1.108  $\chi^2$ /NDF: 31.6/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1p03aX\_rms vs Slug



Right In: 2982.950+/-1.158  $\chi^2/\text{NDF}$ : 1837007.2/10

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

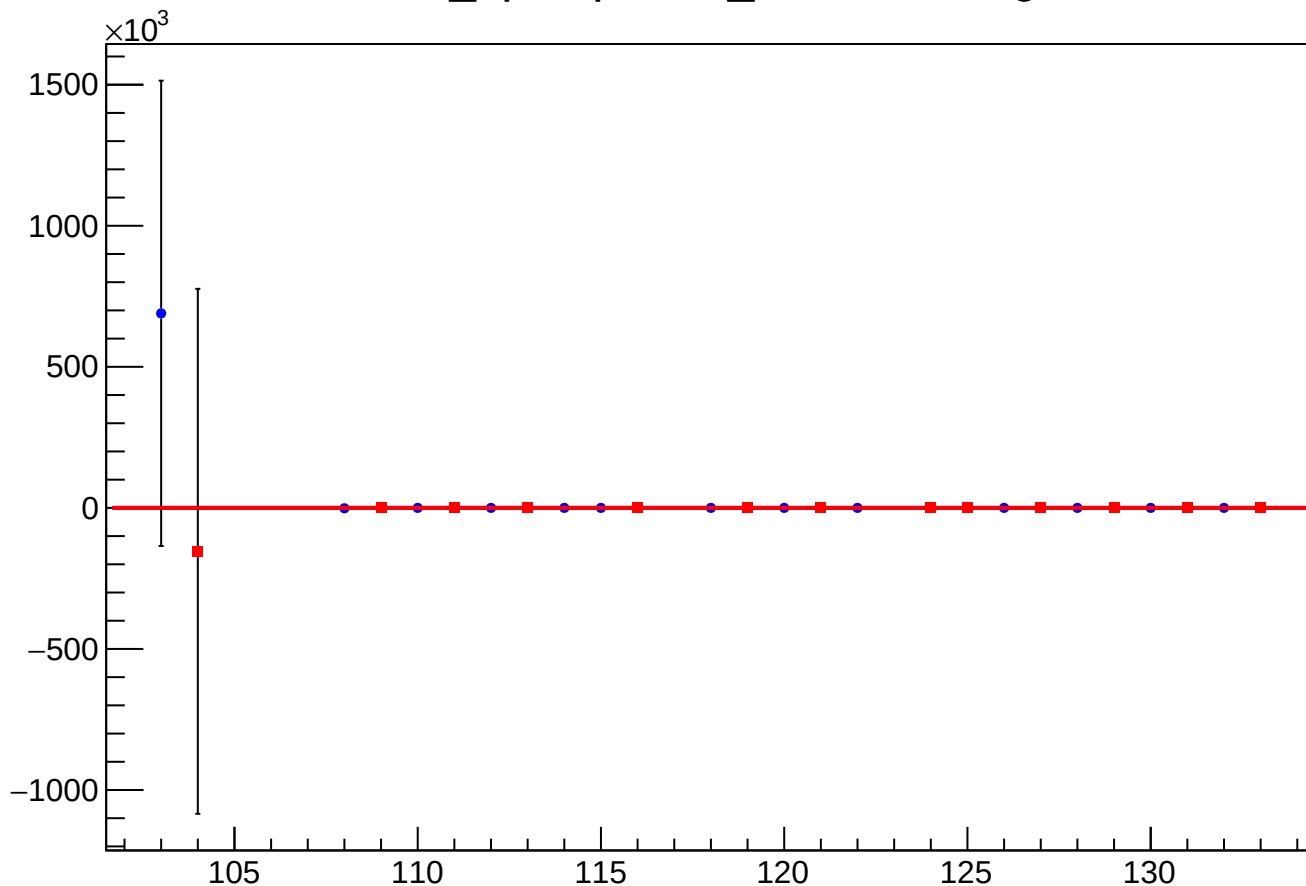
Right Out: 2983.919+/-1.065  $\chi^2/\text{NDF}$ : 1537065.8/11

All: 2983.475+/-0.784  $\chi^2/\text{NDF}$ : 3374073.4/22

- 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\_bpm1p03aY\_mean vs Slug



Right In: 1.493 $\pm$ 1.550  $\chi^2$ /NDF: 3.5/12

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.610 $\pm$ 1.264  $\chi^2$ /NDF: 14.2/12

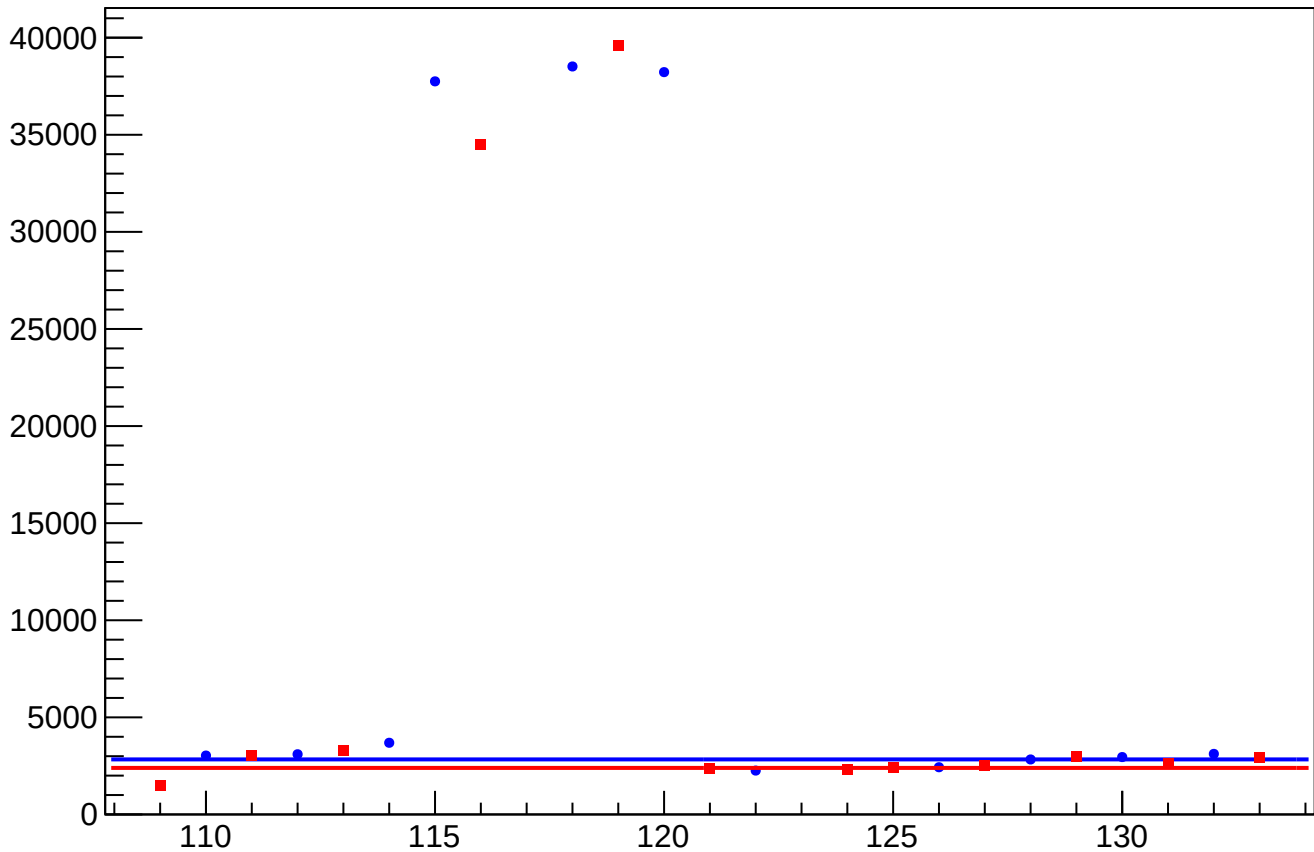
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.971 $\pm$ 0.979  $\chi^2$ /NDF: 21.9/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1p03aY\_rms vs Slug



Right In: 2834.906 $\pm$ 1.096  $\chi^2$ /NDF: 1873613.2/10

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

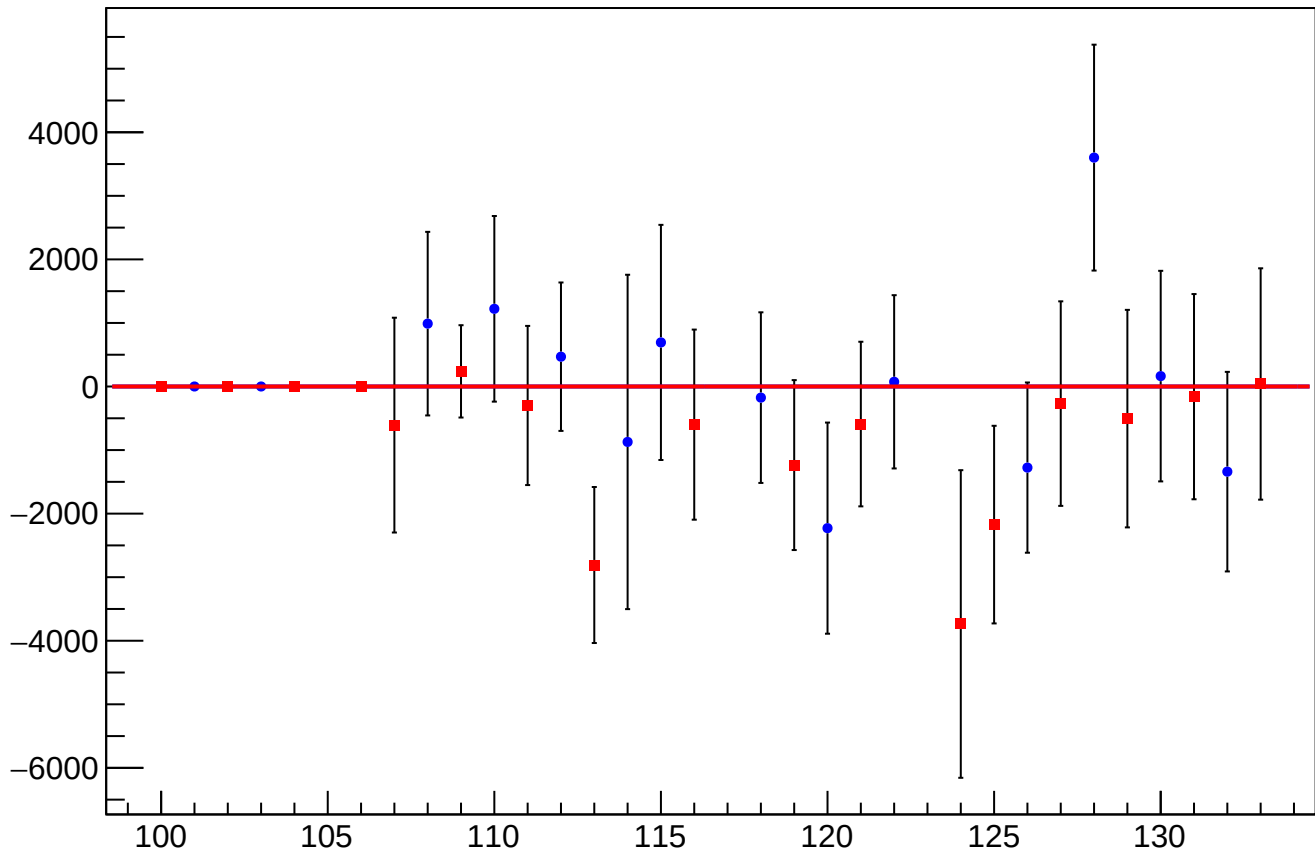
Right Out: 2396.473 $\pm$ 0.894  $\chi^2$ /NDF: 1985535.1/11

All: 2571.580 $\pm$ 0.693  $\chi^2$ /NDF: 3955279.5/22

- 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  $\chi^2/\text{NDF}$ : 9.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.096+/-0.328  $\chi^2/\text{NDF}$ : 14.7/16

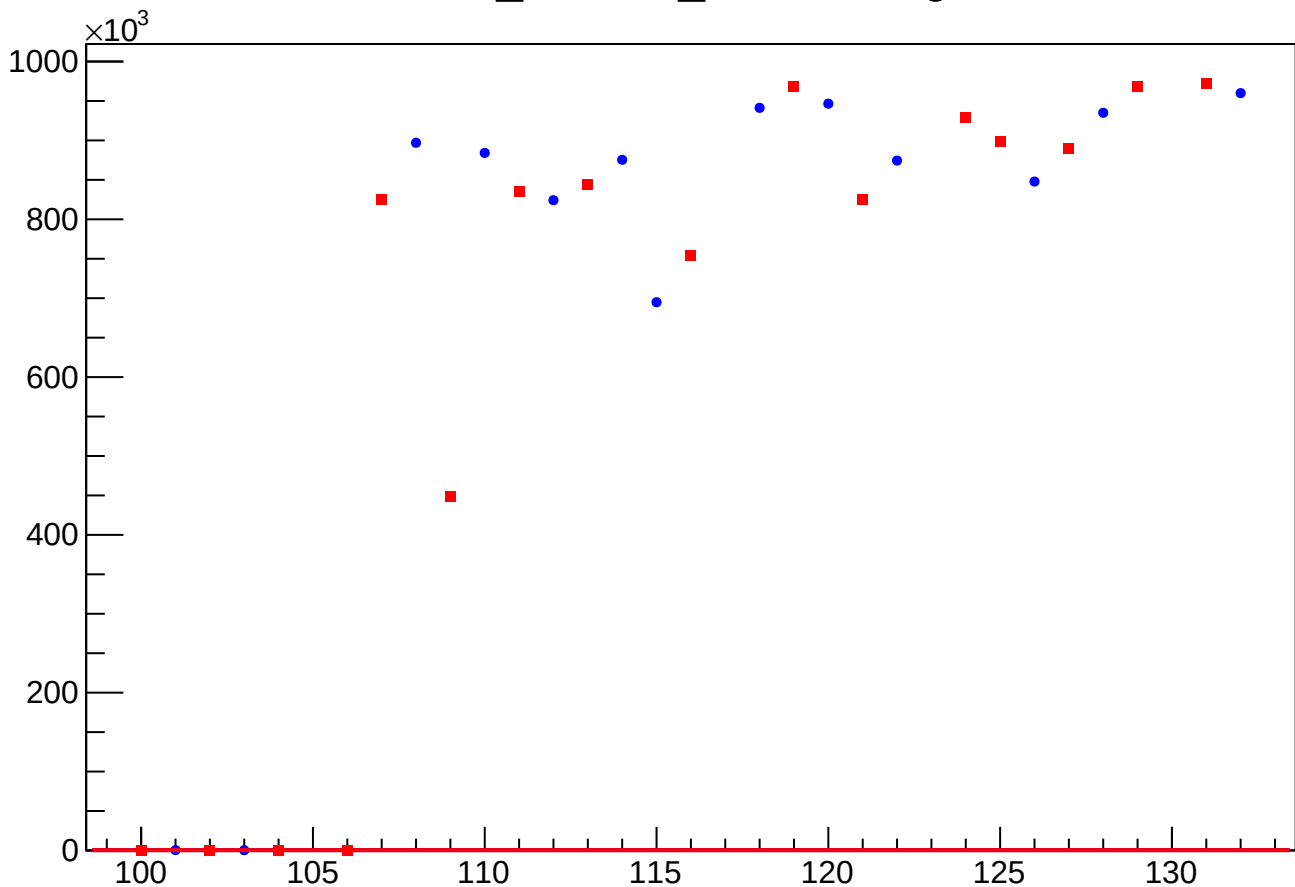
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.169+/-0.241  $\chi^2/\text{NDF}$ : 24.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4bX\_rms vs Slug



Right In: 398.620 $\pm$ 0.251  $\chi^2/\text{NDF}$ : 6125943.7/12

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: 393.110 $\pm$ 0.232  $\chi^2/\text{NDF}$ : 6226395.5/15

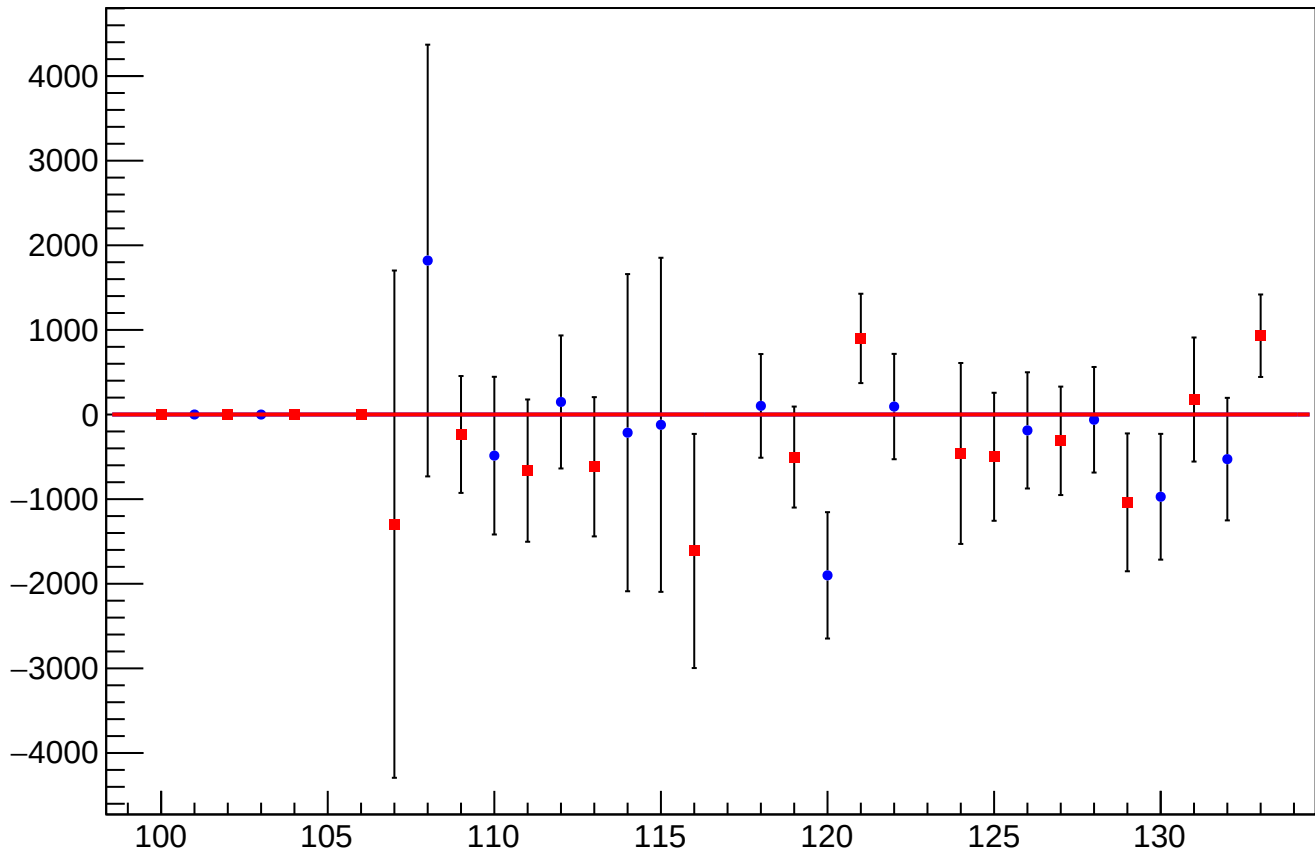
All: 395.640 $\pm$ 0.170  $\chi^2/\text{NDF}$ : 12352598.7/28

- 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\_cav4bY\_mean vs Slug



Right In: -0.021+/-0.347  $\chi^2$ /NDF: 10.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.598+/-0.324  $\chi^2$ /NDF: 12.8/16

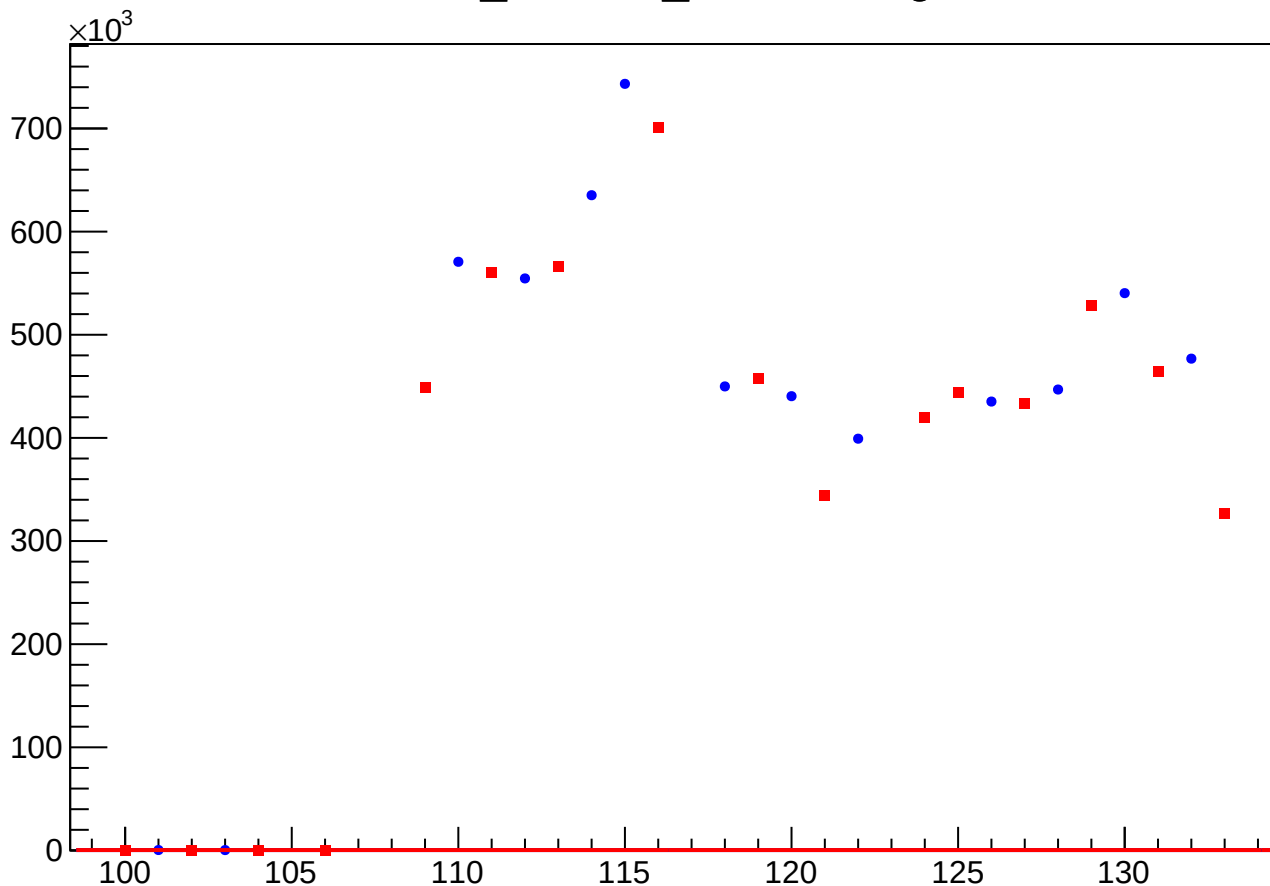
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.310+/-0.237  $\chi^2$ /NDF: 24.8/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# diff\_cav4bY\_rms vs Slug



Right In: 389.738 $\pm$ 0.245  $\chi^2$ /NDF: 8607954.6/12

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 387.694 $\pm$ 0.229  $\chi^2$ /NDF: 9654906.0/15

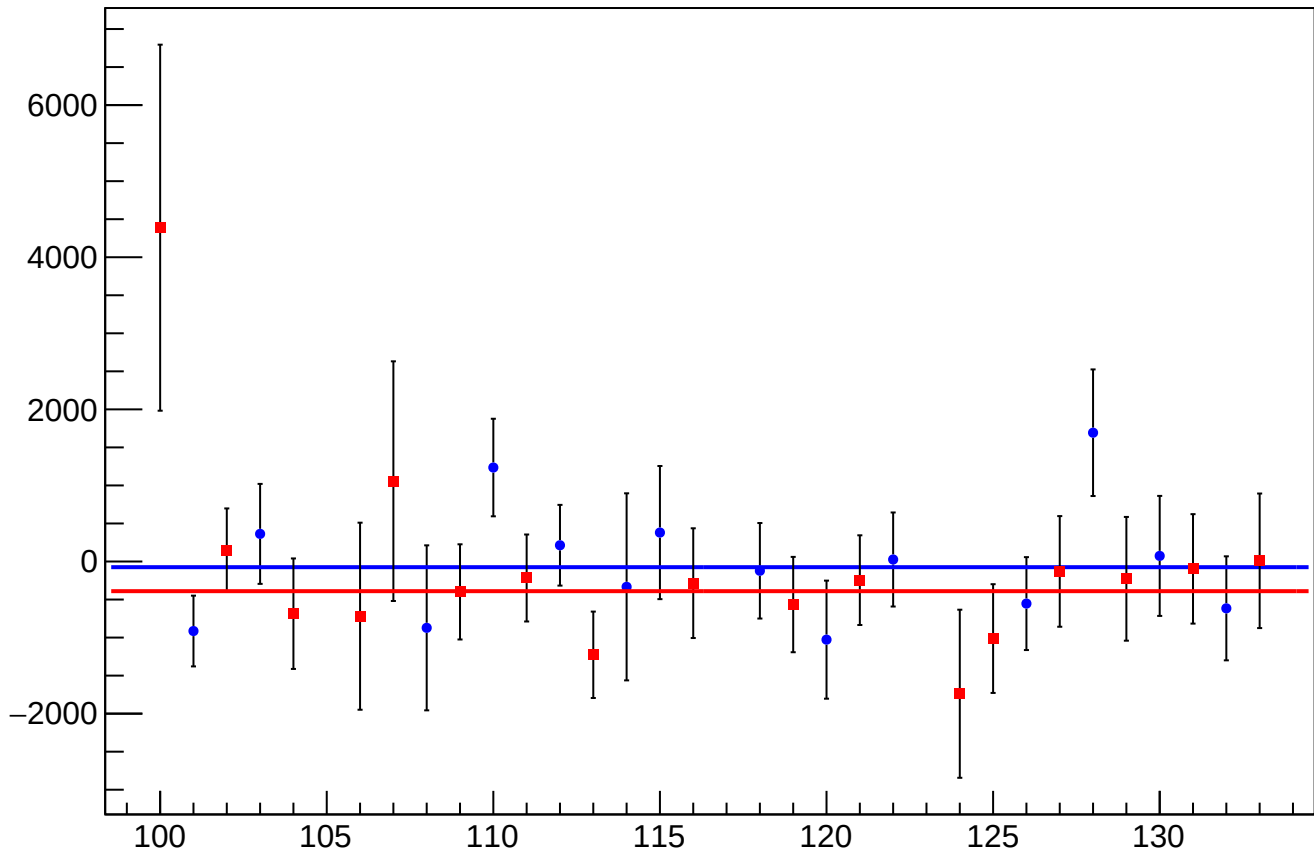
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 388.645 $\pm$ 0.167  $\chi^2$ /NDF: 18262897.6/28

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_cav4cX\_mean vs Slug



Right In:  $-74.576 \pm 181.297$   $\chi^2/\text{NDF}$ : 16.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-389.933 \pm 177.016$   $\chi^2/\text{NDF}$ : 11.2/16

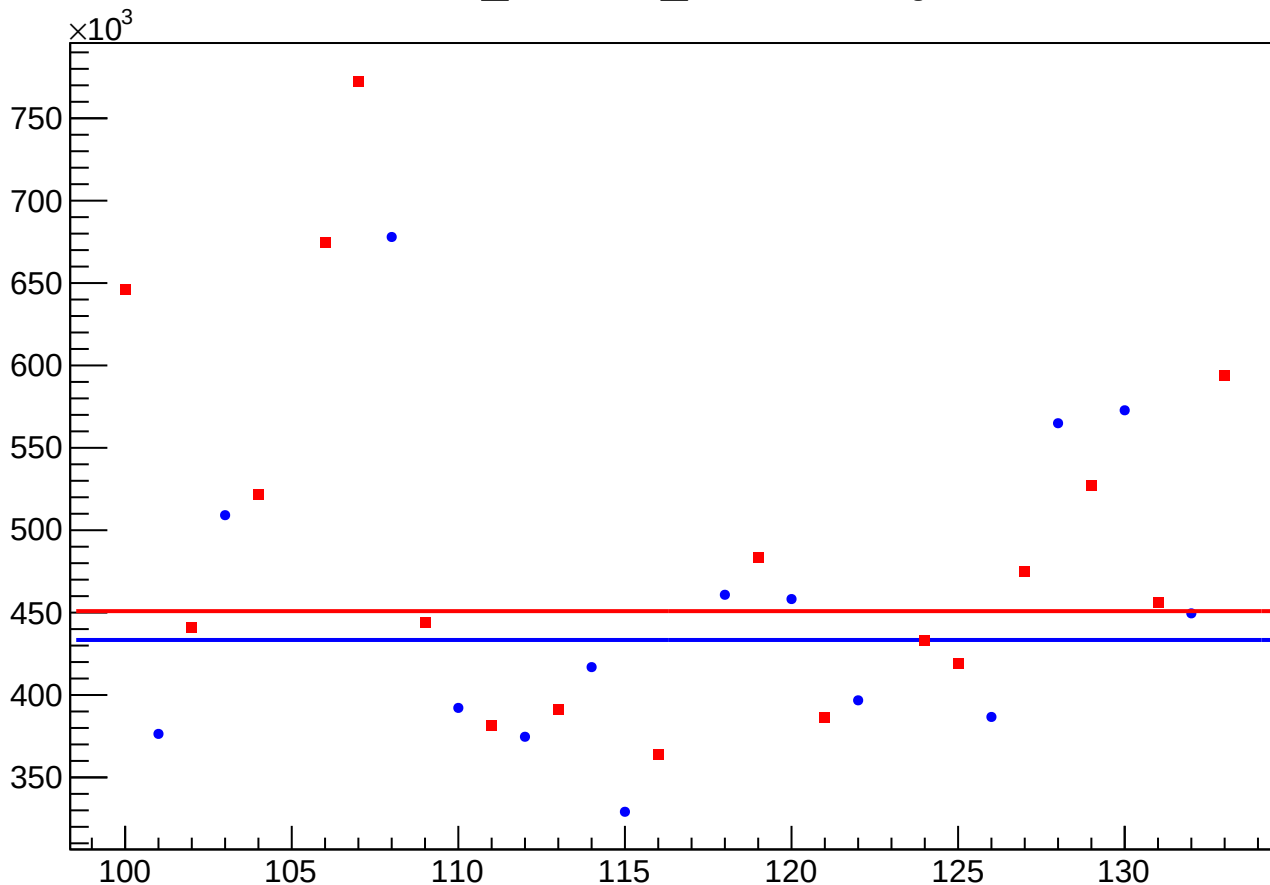
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-236.022 \pm 126.656$   $\chi^2/\text{NDF}$ : 29.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4cX\_rms vs Slug



Right In: 433397.301+/-128.232  $\chi^2/\text{NDF}$ : 357352.1/13

+ 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

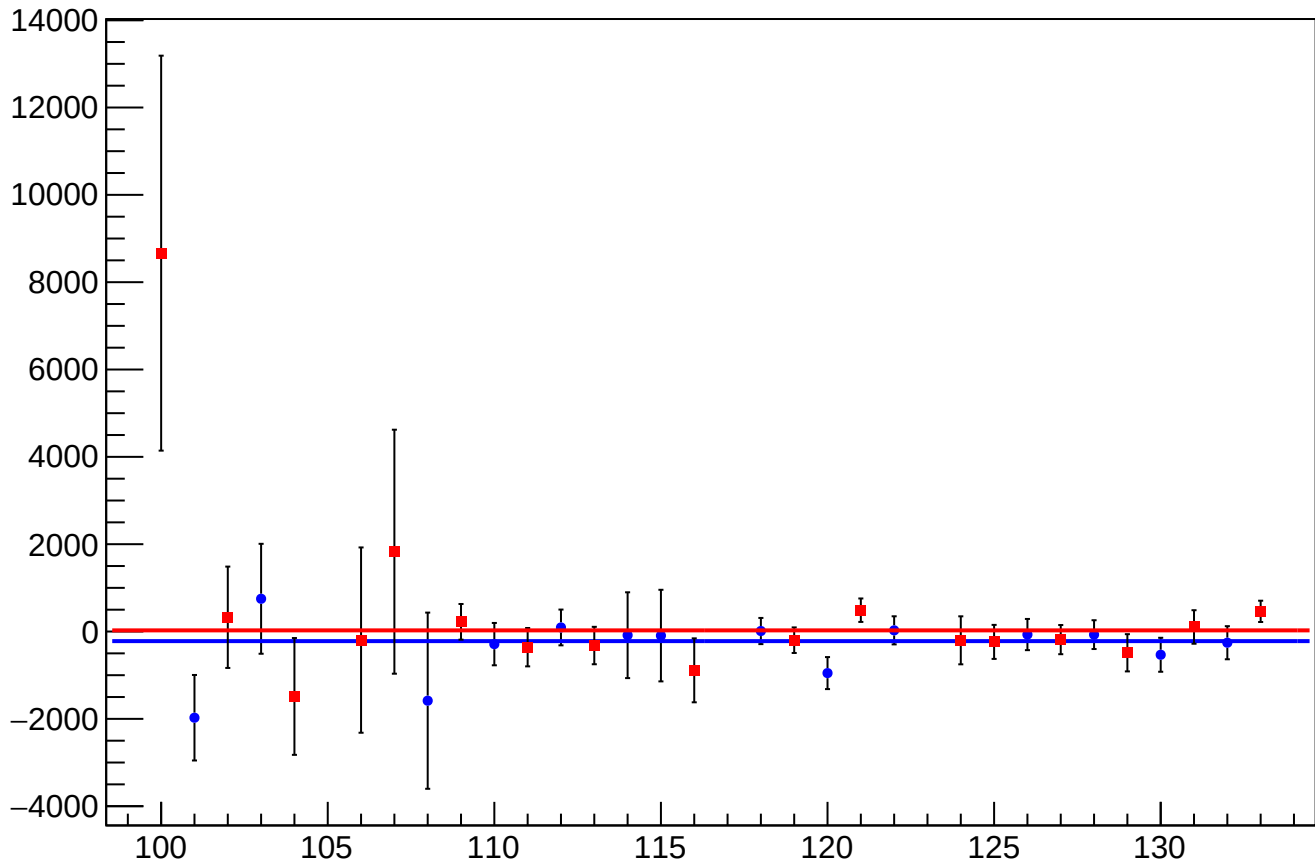
Right Out: 450899.321+/-125.209  $\chi^2/\text{NDF}$ : 367232.8/16

All: 442356.984+/-89.586  $\chi^2/\text{NDF}$ : 734121.4

- 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: -219.665+/-117.096  $\chi^2/\text{NDF}$ : 11.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26.303+/-103.301  $\chi^2/\text{NDF}$ : 17.9/16

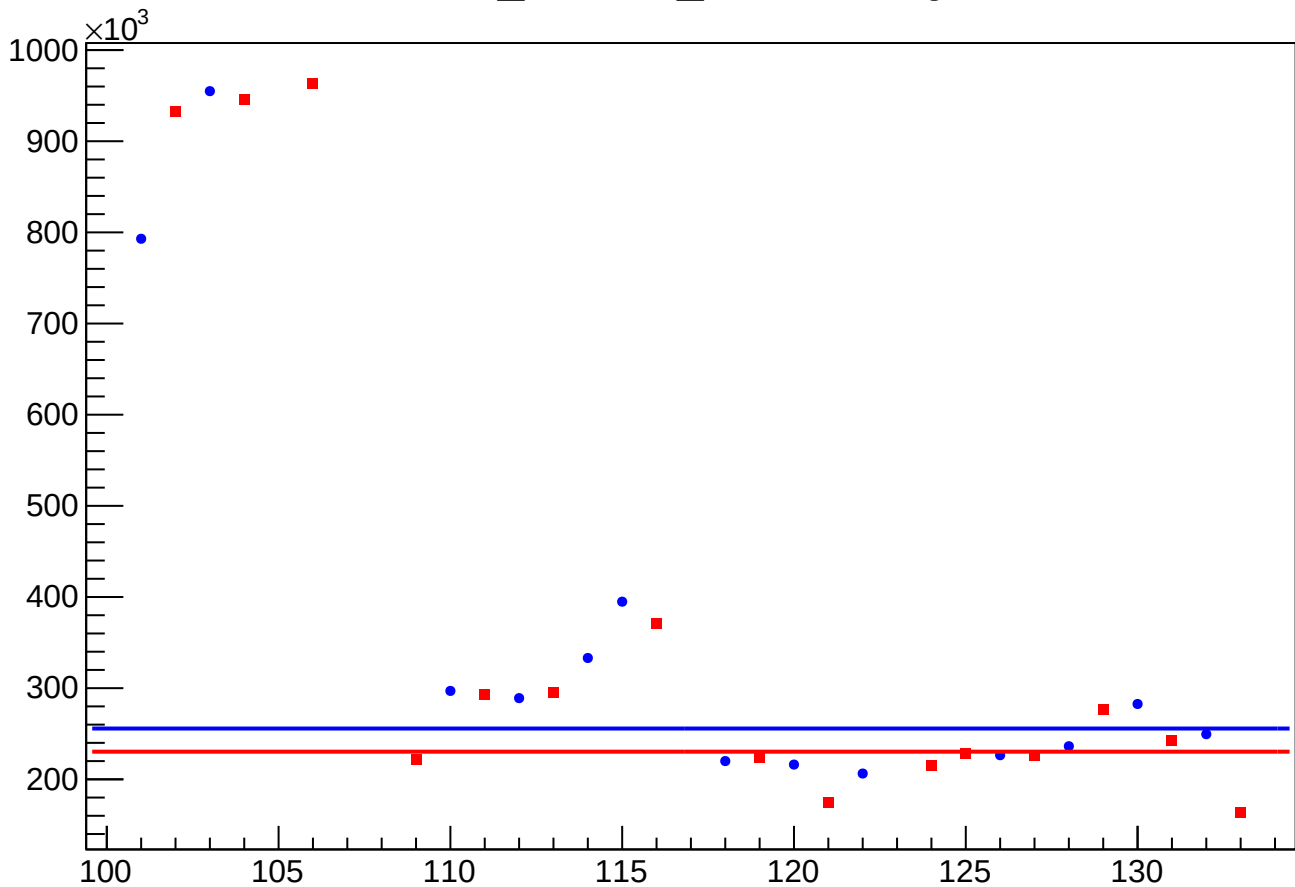
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -81.346+/-77.465  $\chi^2/\text{NDF}$ : 31.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4cY\_rms vs Slug



Right In: 255731.109 $\pm$ 83.054  $\chi^2$ /NDF: 1227624.2/12

+ 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

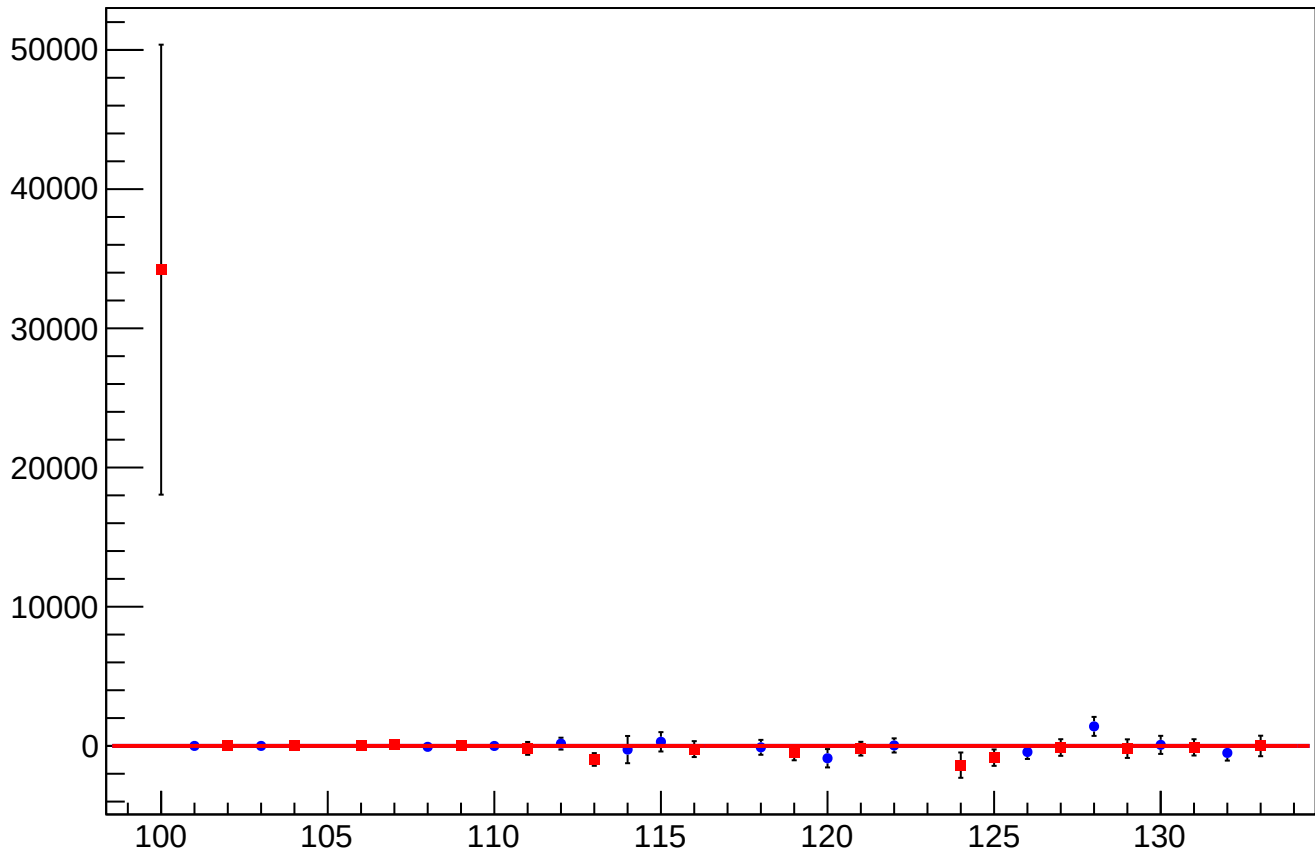
Right Out: 230332.561 $\pm$ 73.299  $\chi^2$ /NDF: 1613117.1/14

All: 241453.304 $\pm$ 54.957  $\chi^2$ /NDF: 2893312.

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_cav4dX\_mean vs Slug



Right In:  $-0.035 \pm 0.172$   $\chi^2/\text{NDF}$ : 9.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.355 \pm 0.160$   $\chi^2/\text{NDF}$ : 15.7/16

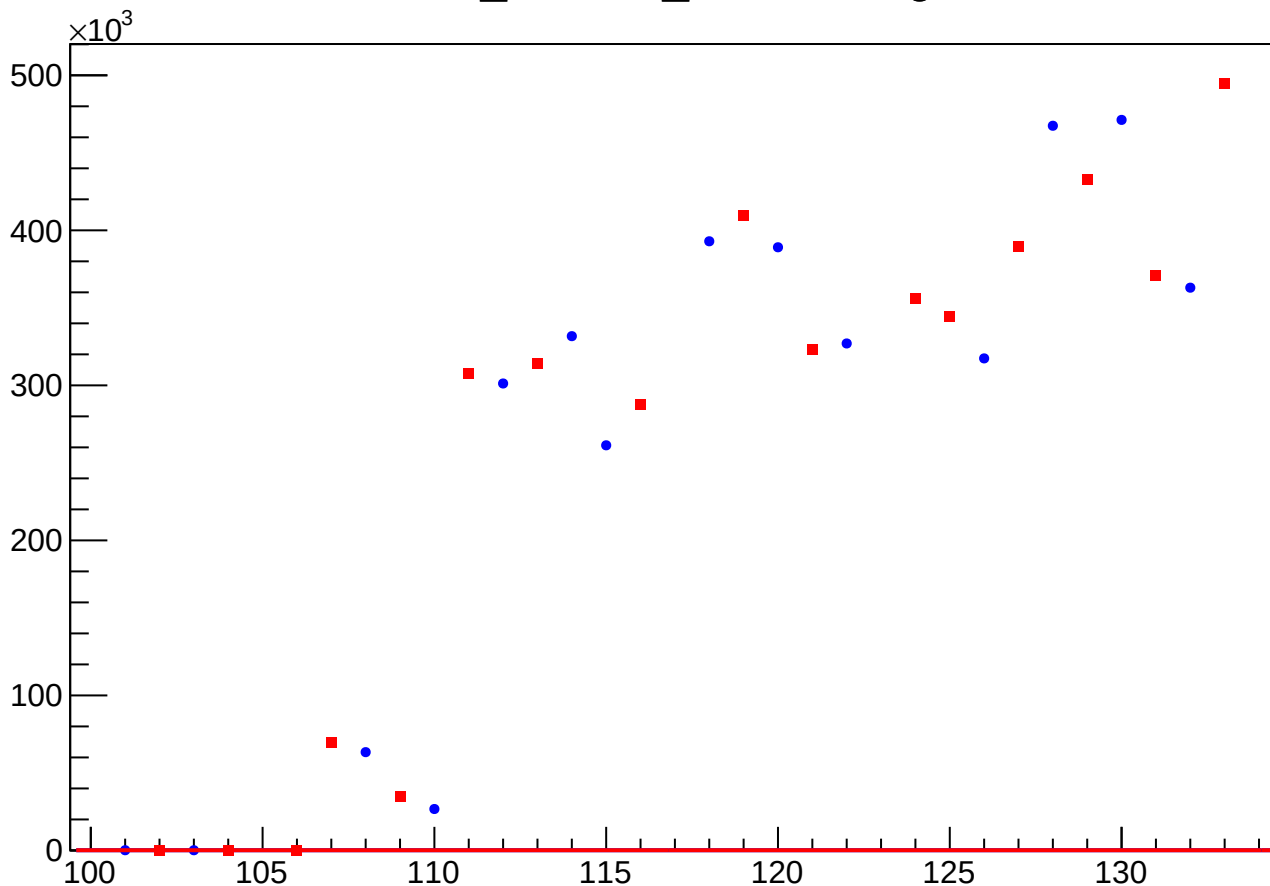
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.207 \pm 0.117$   $\chi^2/\text{NDF}$ : 26.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4dX\_rms vs Slug



Right In: 148.936 $\pm$ 0.122  $\chi^2/\text{NDF}$ : 8817229.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 149.302 $\pm$ 0.113  $\chi^2/\text{NDF}$ : 9866139.2/15

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

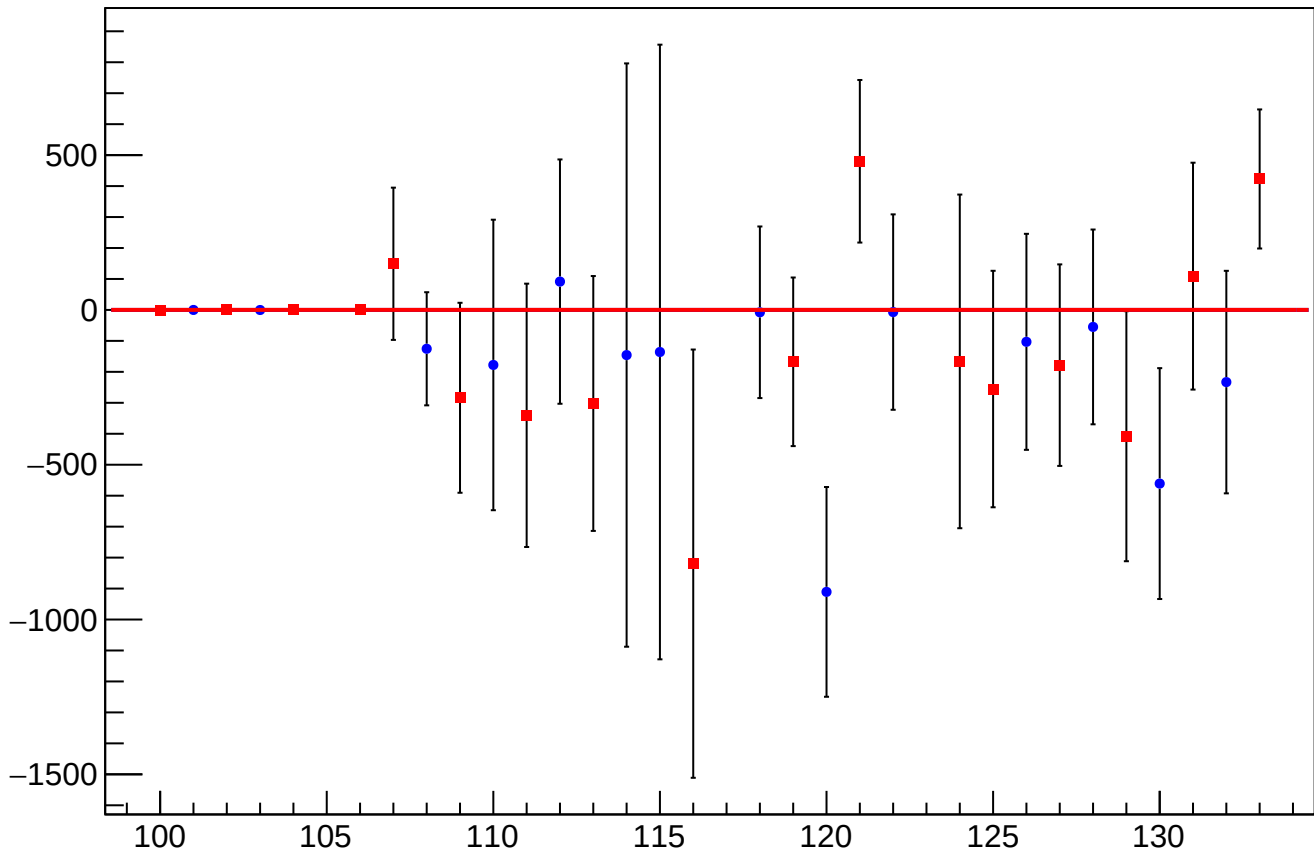
+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 149.132 $\pm$ 0.083  $\chi^2/\text{NDF}$ : 18683373.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_cav4dY\_mean vs Slug



Right In:  $-0.068 \pm 0.177$   $\chi^2/\text{NDF}$ : 10.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.126 \pm 0.166$   $\chi^2/\text{NDF}$ : 13.2/16

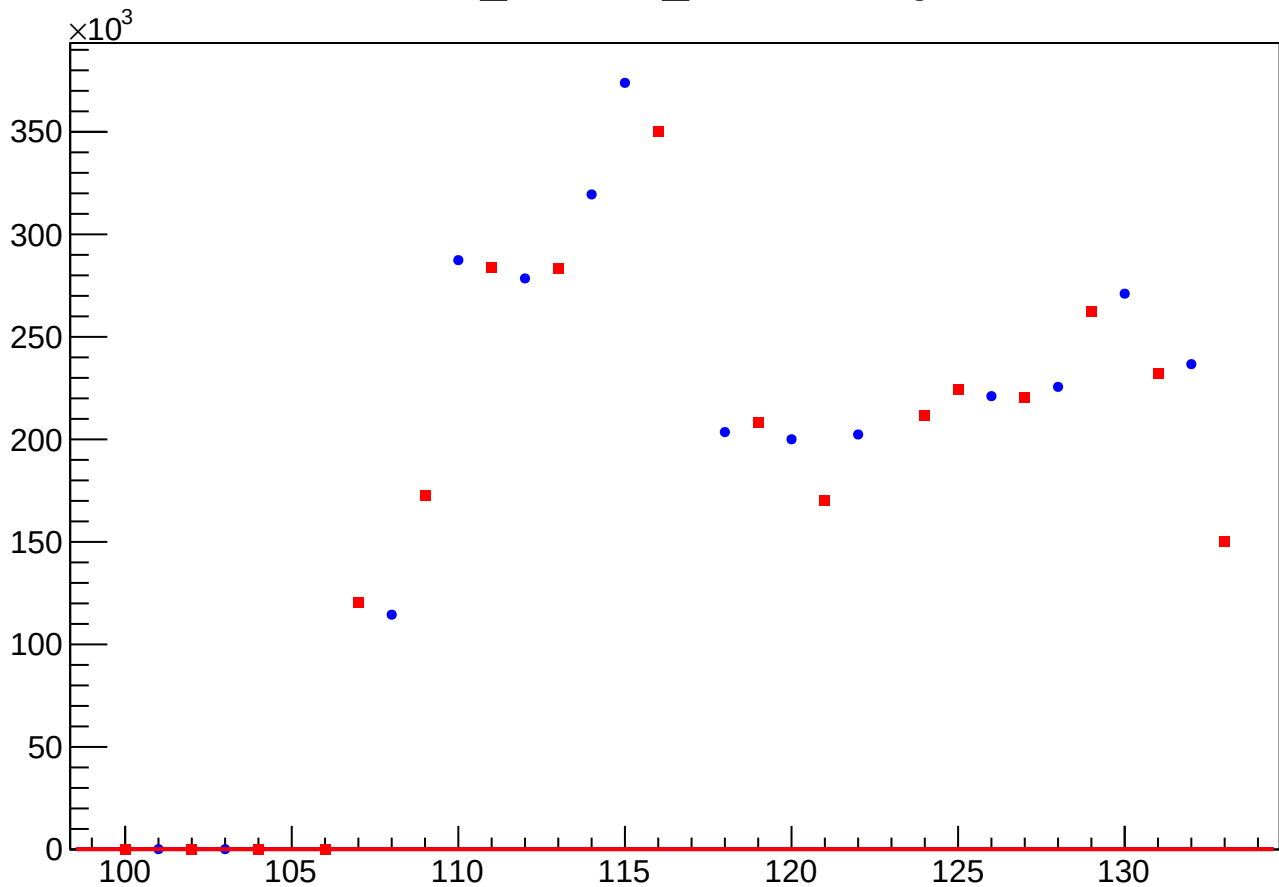
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.035 \pm 0.121$   $\chi^2/\text{NDF}$ : 24.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4dY\_rms vs Slug



Right In: 153.191 $\pm$ 0.125  $\chi^2/\text{NDF}$ : 9390073.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 156.011 $\pm$ 0.118  $\chi^2/\text{NDF}$ : 9909811.1/16

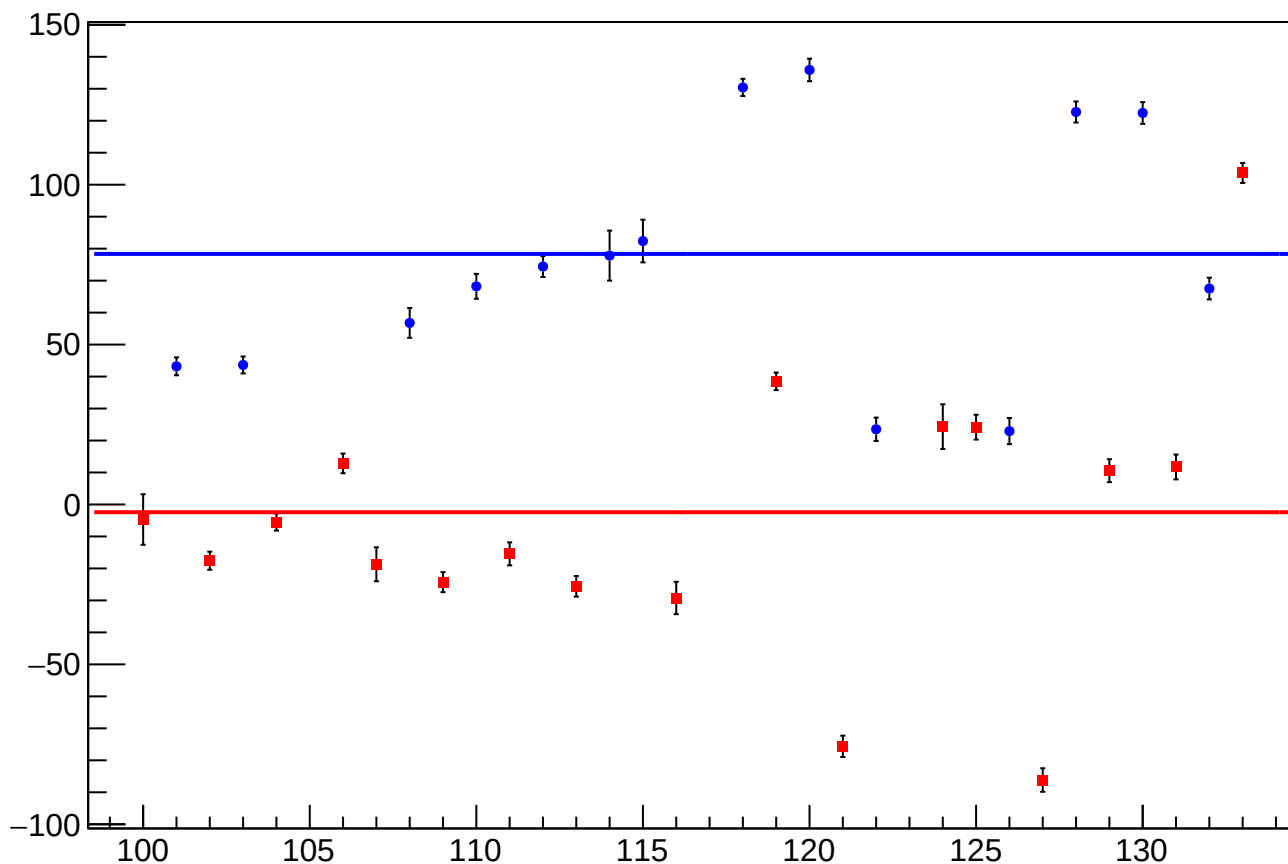
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 154.689 $\pm$ 0.086  $\chi^2/\text{NDF}$ : 19300153.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i01X\_mean vs Slug



Right In: 78.354+/-0.940  $\chi^2/\text{NDF}$ : 1766.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.417+/-0.856  $\chi^2/\text{NDF}$ : 2667.7/16

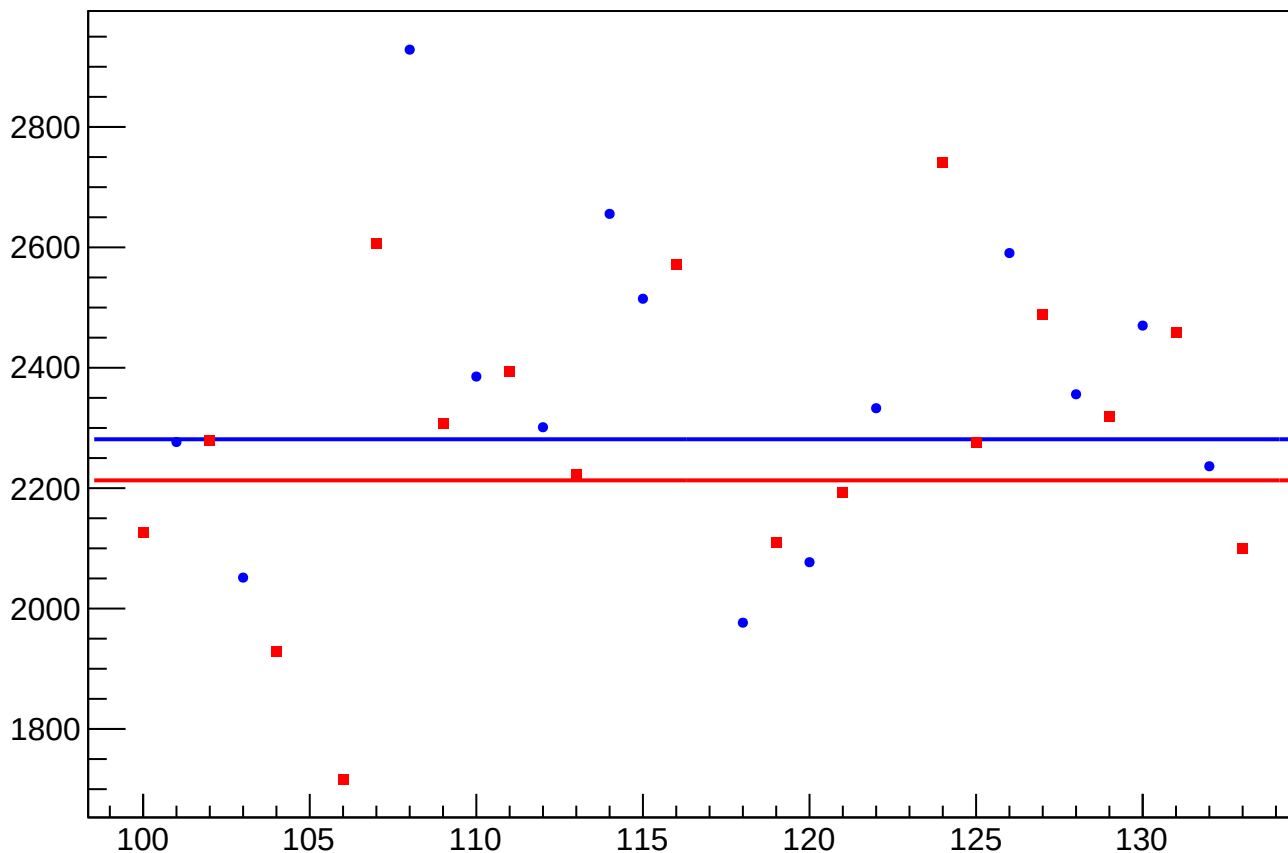
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.219+/-0.633  $\chi^2/\text{NDF}$ : 8468.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i01X\_rms vs Slug



Right In: 2281.211 $\pm$ 0.665  $\chi^2$ /NDF: 113759.5/13

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

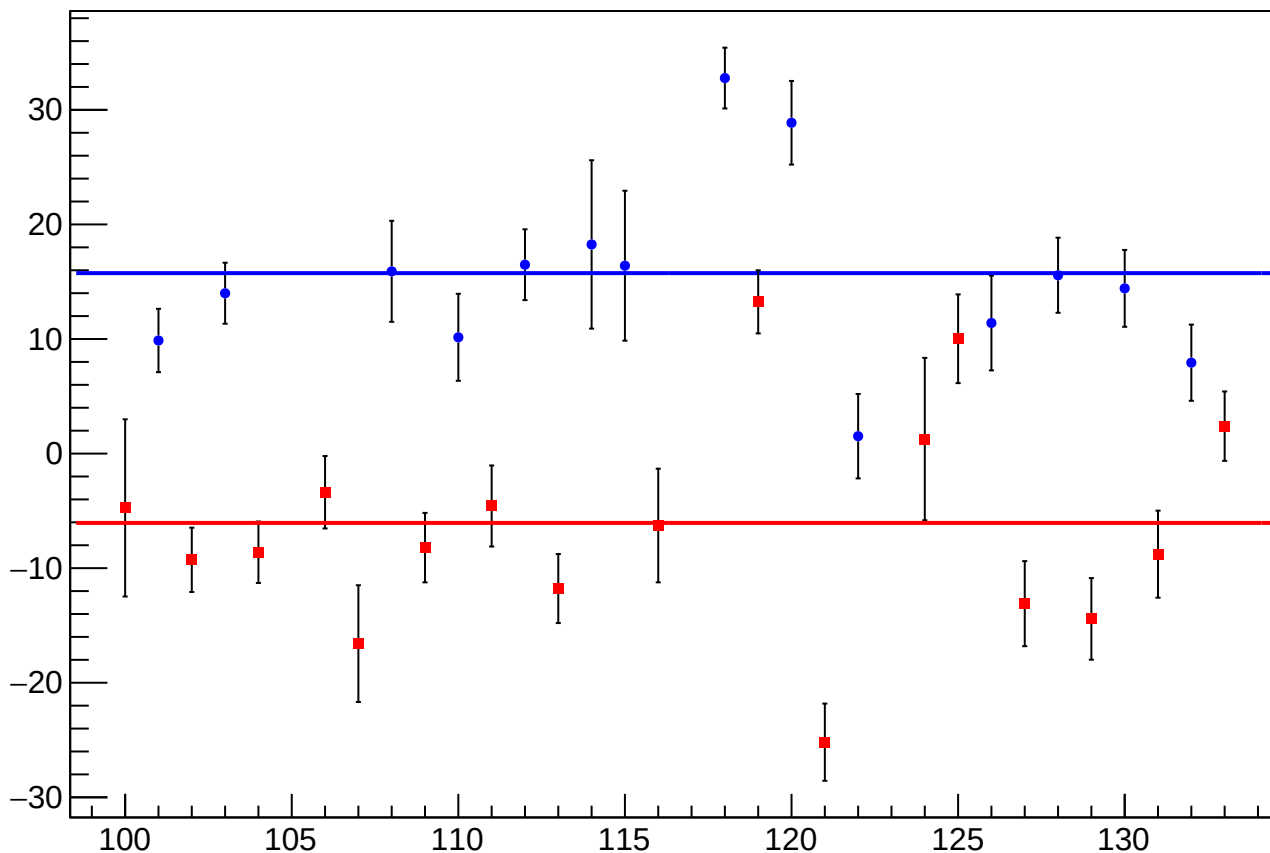
Right Out: 2212.958 $\pm$ 0.606  $\chi^2$ /NDF: 142341.7/16

All: 2243.916 $\pm$ 0.448  $\chi^2$ /NDF: 261862.3/30

- 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\_bpm0i01Y\_mean vs Slug



Right In: 15.750 $\pm$ 0.928  $\chi^2$ /NDF: 83.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -6.051 $\pm$ 0.846  $\chi^2$ /NDF: 128.6/16

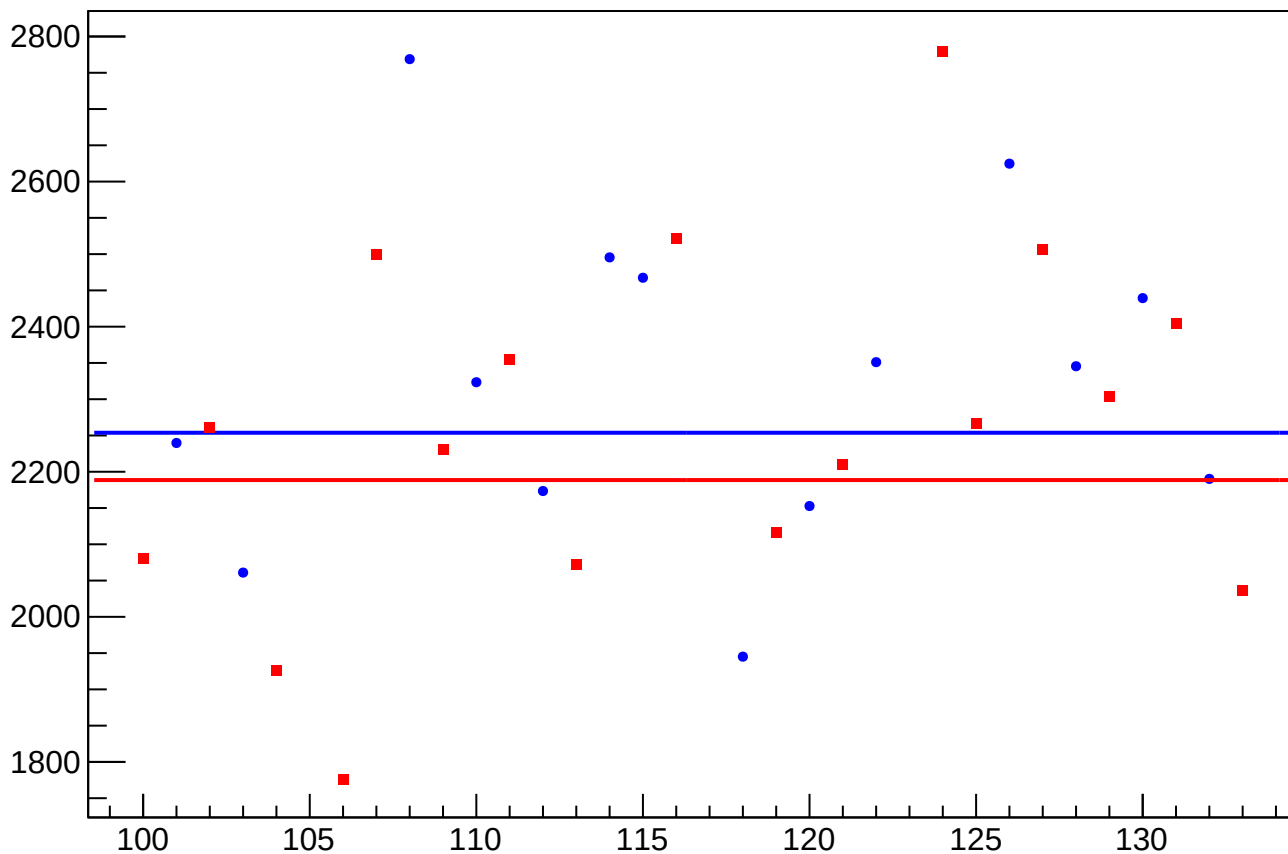
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.843 $\pm$ 0.625  $\chi^2$ /NDF: 513.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i01Y\_rms vs Slug



Right In: 2253.777 $\pm$ 0.656  $\chi^2$ /NDF: 98604.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2188.555 $\pm$ 0.598  $\chi^2$ /NDF: 123655.3/16

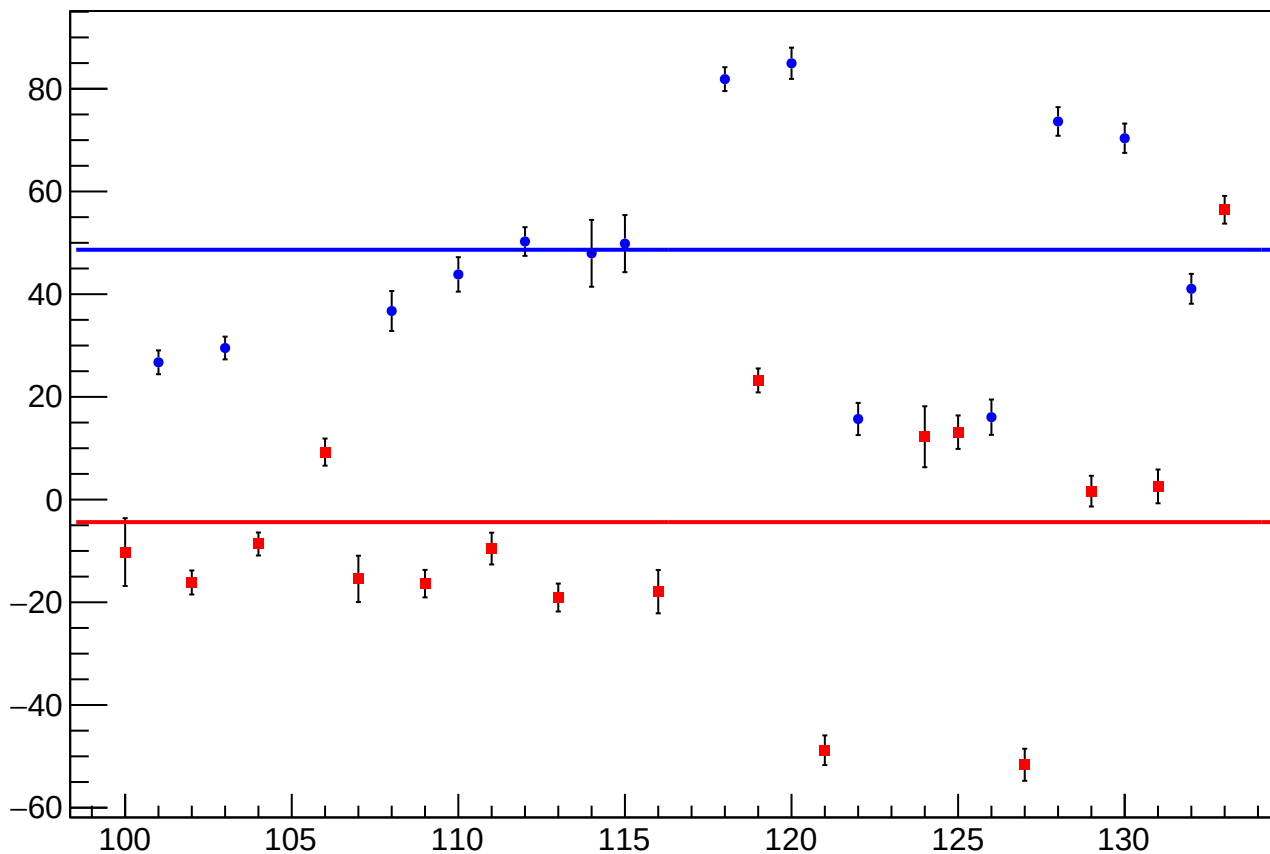
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2218.155 $\pm$ 0.442  $\chi^2$ /NDF: 227653.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i01aX\_mean vs Slug



Right In: 48.651+/-0.796  $\chi^2/\text{NDF}$ : 868.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.385+/-0.724  $\chi^2/\text{NDF}$ : 1285.4/16

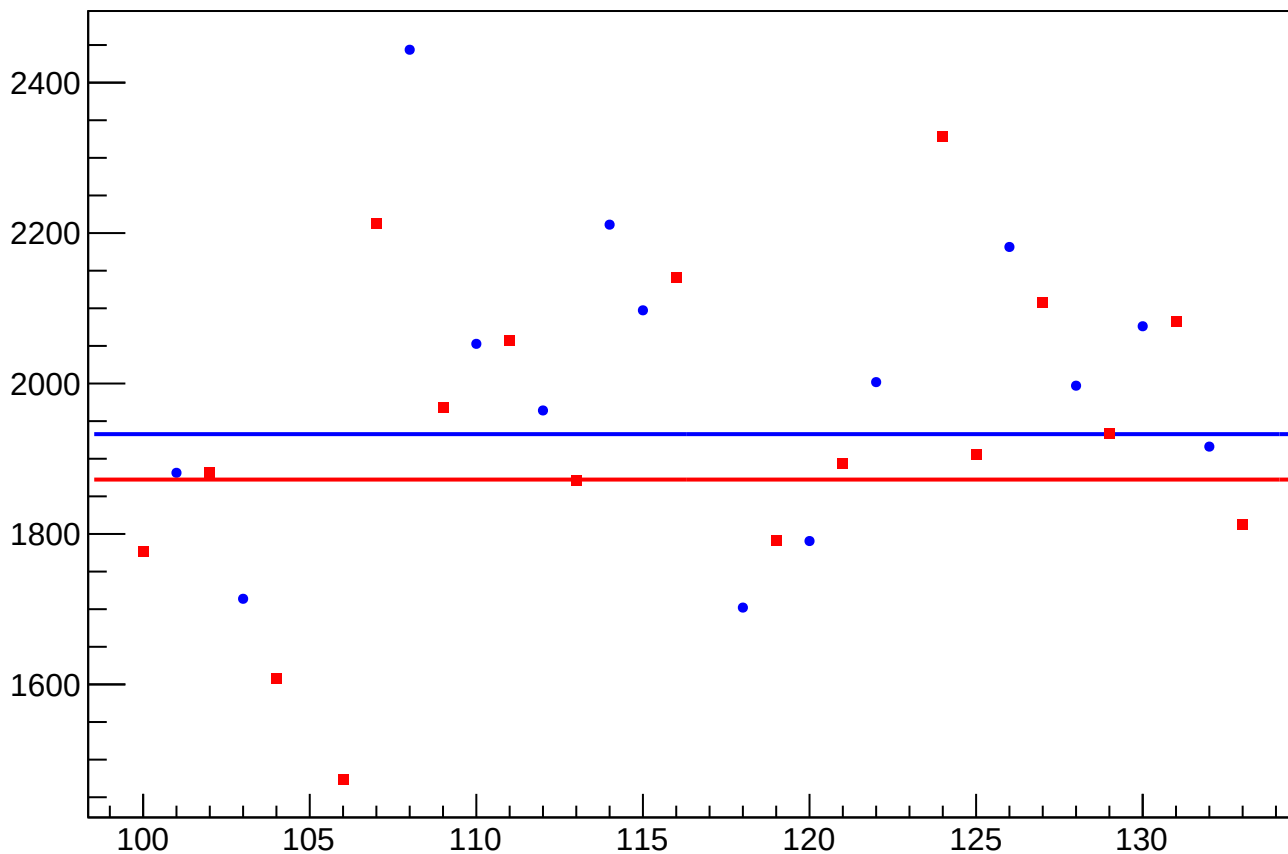
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.644+/-0.536  $\chi^2/\text{NDF}$ : 4582.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i01aX\_rms vs Slug



Right In:  $1932.708 \pm 0.563$   $\chi^2/\text{NDF}: 104954.2/13$

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:  $1872.315 \pm 0.512$   $\chi^2/\text{NDF}: 139284.6/16$

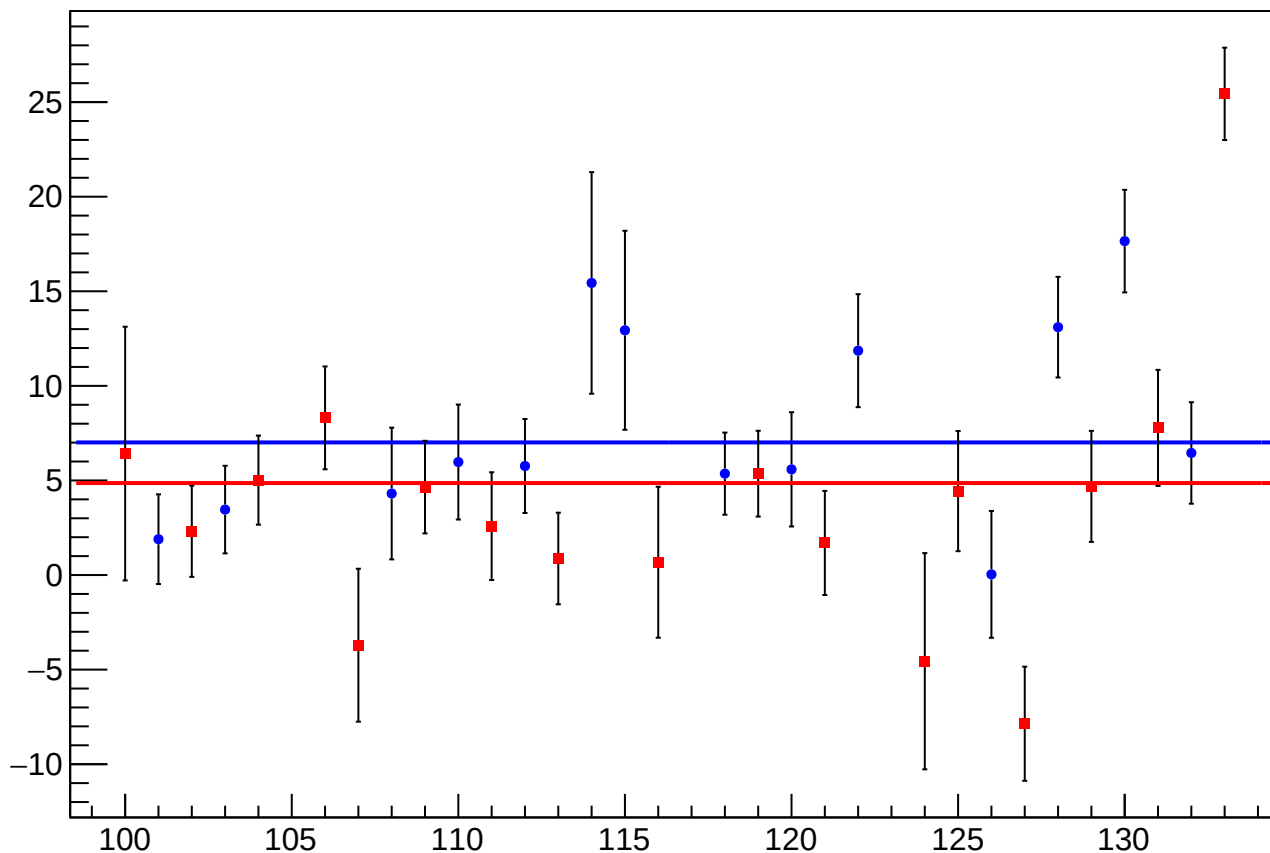
All:  $1899.677 \pm 0.379$   $\chi^2/\text{NDF}: 250536.1/30$

- 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\_bpm0i01aY\_mean vs Slug



Right In: 7.010 $\pm$ 0.762  $\chi^2$ /NDF: 39.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.862 $\pm$ 0.698  $\chi^2$ /NDF: 105.6/16

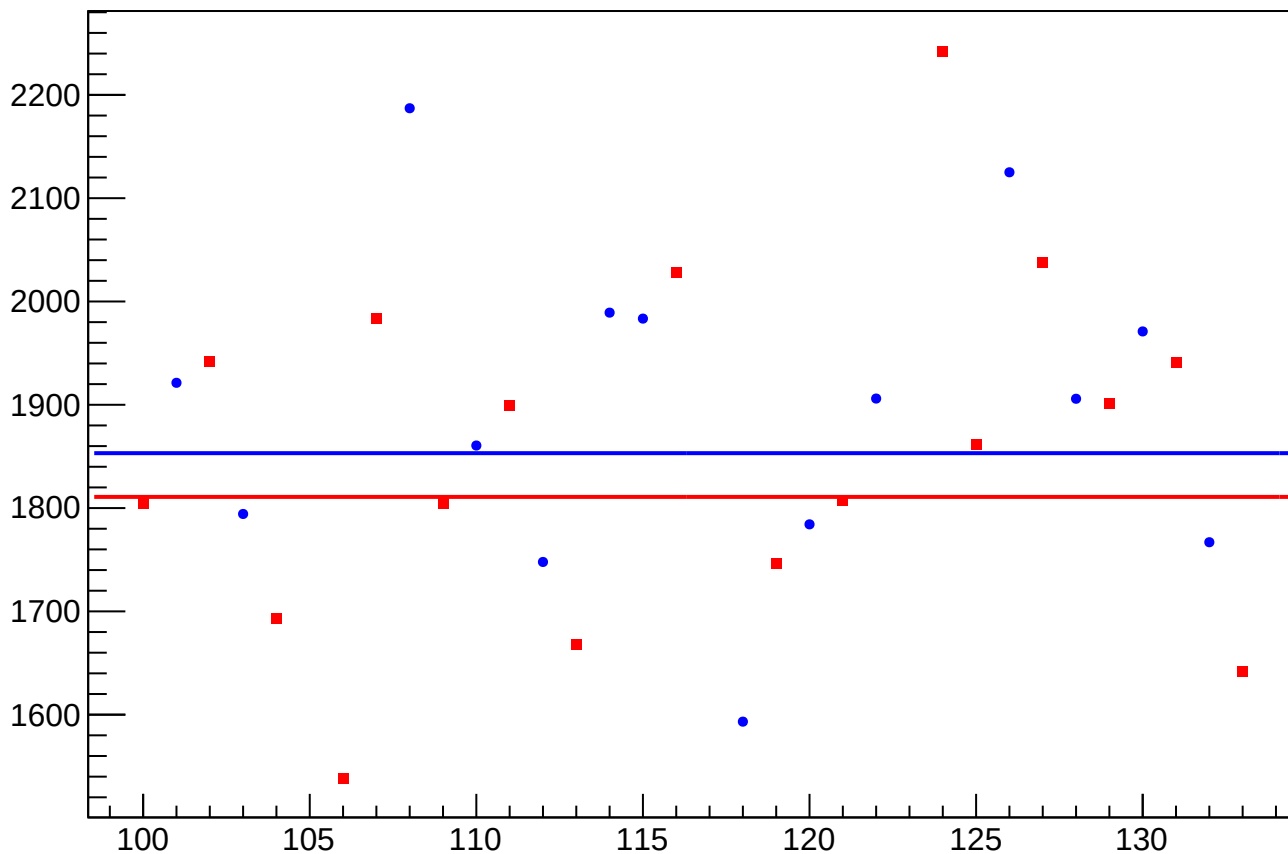
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.842 $\pm$ 0.515  $\chi^2$ /NDF: 149.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i01aY\_rms vs Slug



Right In: 1853.156 $\pm$ 0.539  $\chi^2$ /NDF: 77380.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1810.824 $\pm$ 0.494  $\chi^2$ /NDF: 89414.2/16

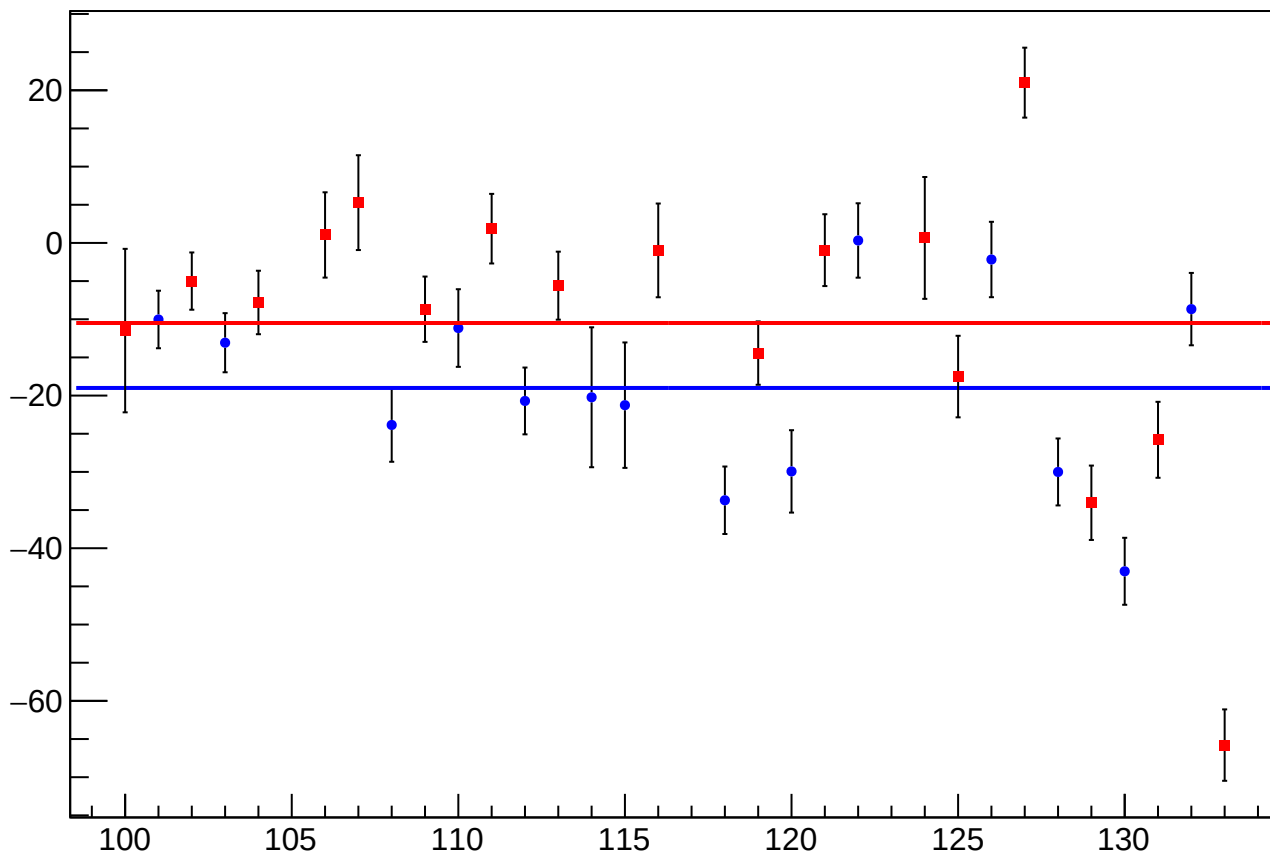
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1830.145 $\pm$ 0.364  $\chi^2$ /NDF: 170149.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l01X\_mean vs Slug



Right In:  $-19.001 \pm 1.276$   $\chi^2/\text{NDF}$ : 95.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-10.491 \pm 1.191$   $\chi^2/\text{NDF}$ : 252.9/16

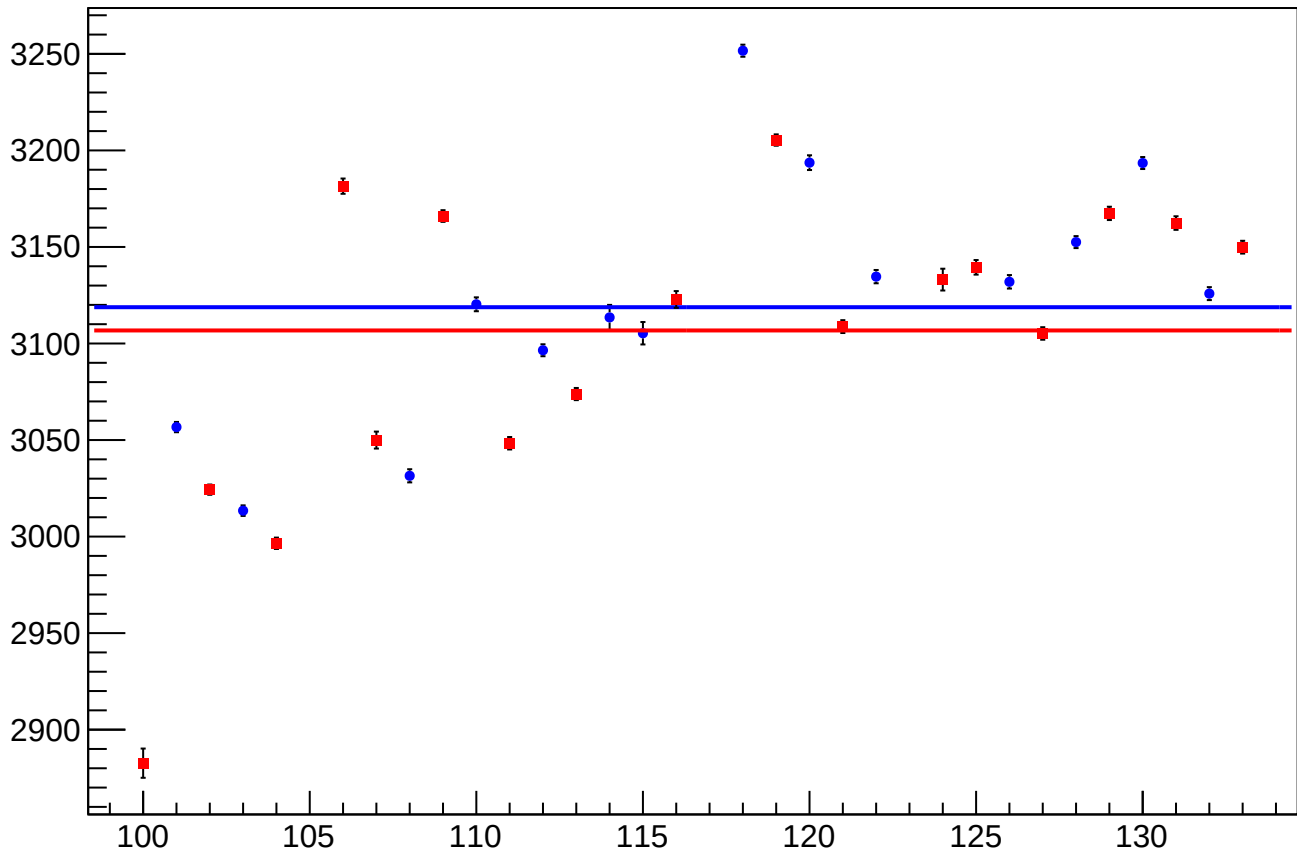
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-14.455 \pm 0.871$   $\chi^2/\text{NDF}$ : 371.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l01X\_rms vs Slug



Right In: 3118.801 $\pm$ 0.902  $\chi^2$ /NDF: 5664.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3106.758 $\pm$ 0.842  $\chi^2$ /NDF: 6562.3/16

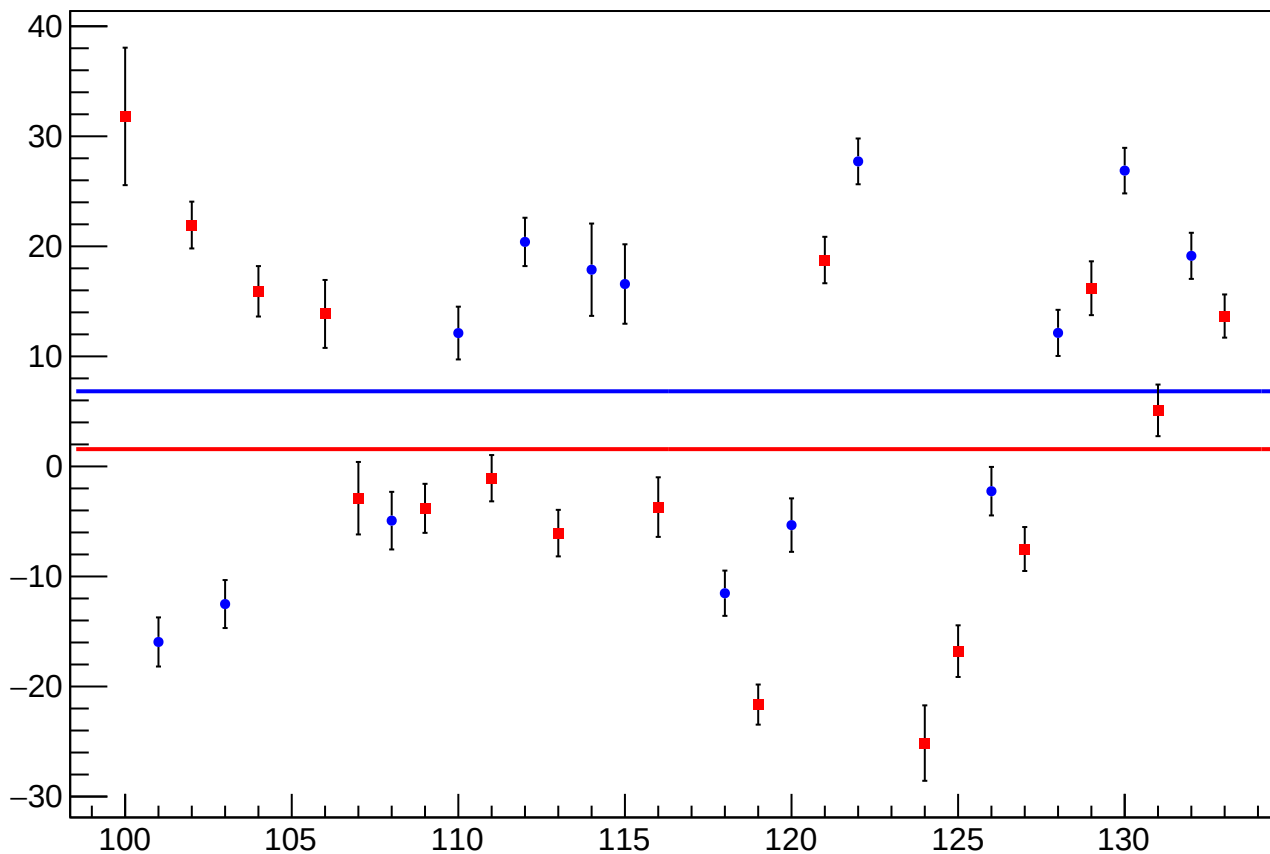
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3112.367 $\pm$ 0.616  $\chi^2$ /NDF: 12321.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l01Y\_mean vs Slug



Right In: 6.829+/-0.620  $\chi^2/\text{NDF}$ : 617.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.571+/-0.570  $\chi^2/\text{NDF}$ : 643.2/16

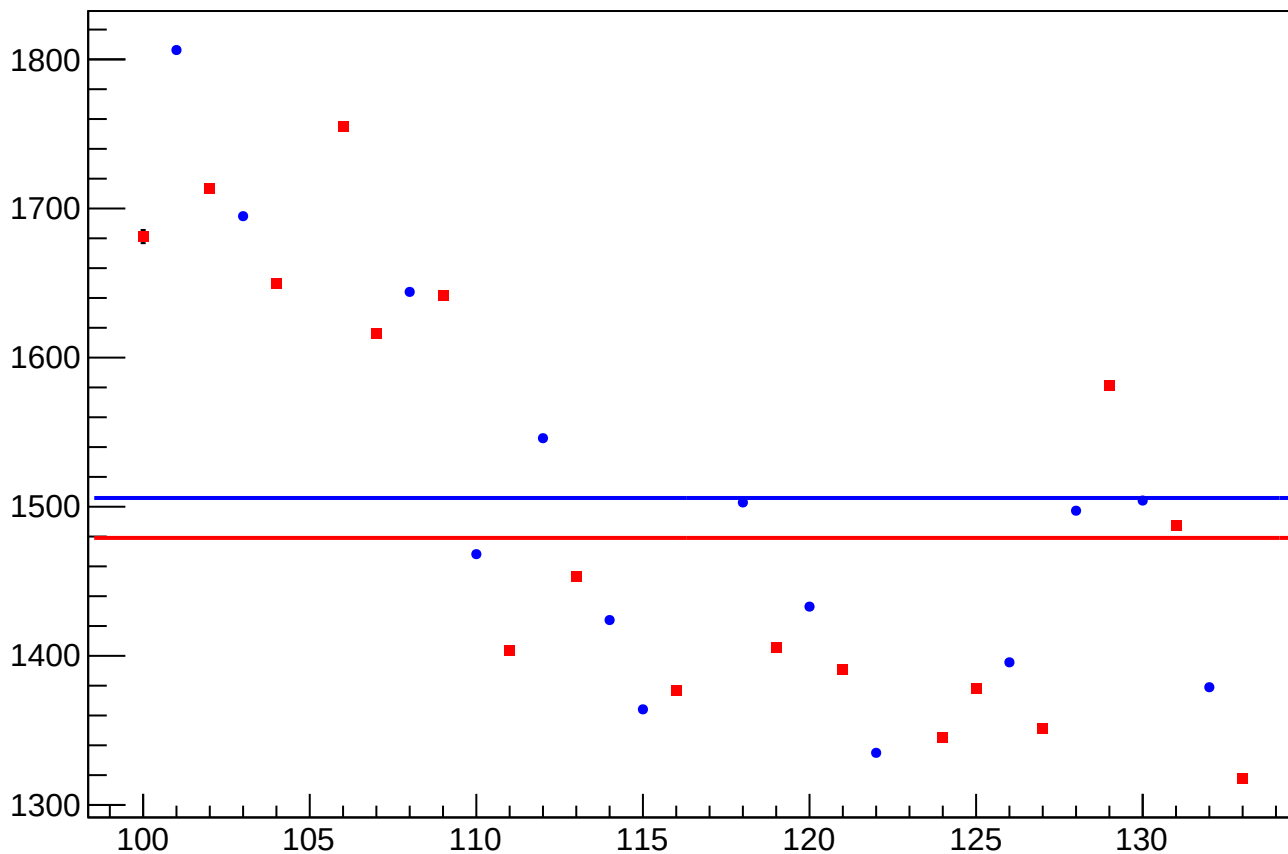
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.982+/-0.420  $\chi^2/\text{NDF}$ : 1299.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l01Y\_rms vs Slug



Right In: 1505.868 $\pm$ 0.438  $\chi^2$ /NDF: 89523.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1479.084 $\pm$ 0.403  $\chi^2$ /NDF: 112083.4/16

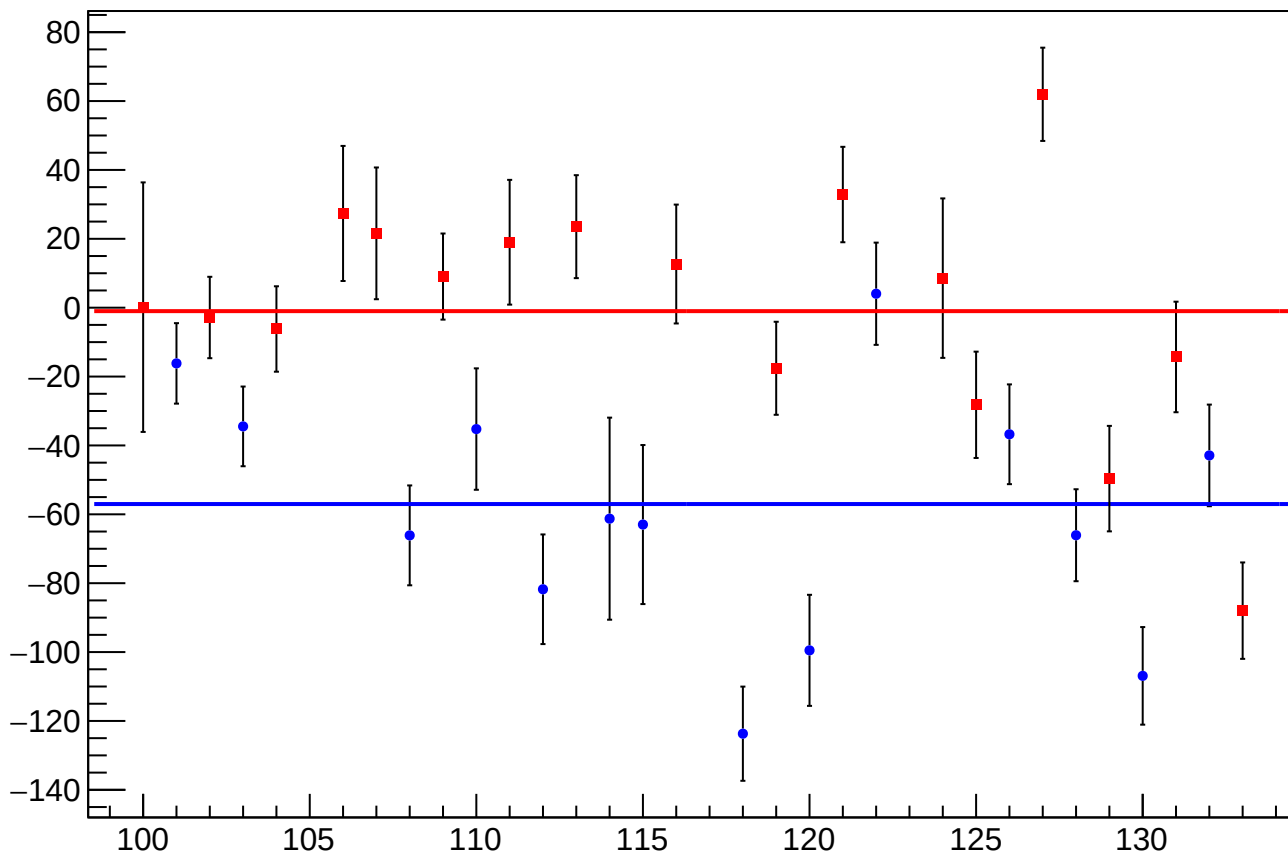
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1491.368 $\pm$ 0.297  $\chi^2$ /NDF: 203629.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l02X\_mean vs Slug



Right In: -57.018 $\pm$ 3.971  $\chi^2$ /NDF: 83.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.002 $\pm$ 3.714  $\chi^2$ /NDF: 90.6/16

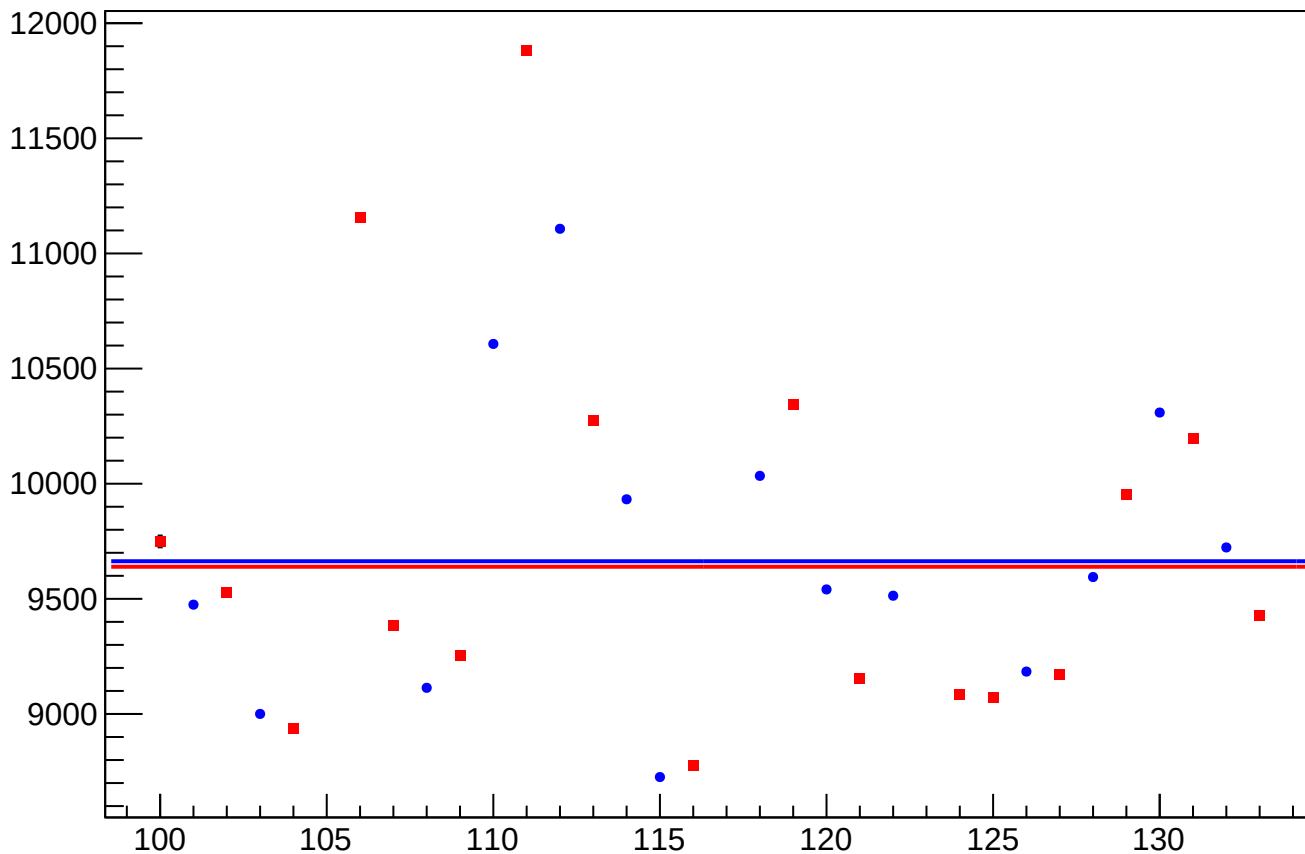
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -27.142 $\pm$ 2.712  $\chi^2$ /NDF: 280.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l02X\_rms vs Slug



Right In: 9663.274+/-2.808  $\chi^2/\text{NDF}$ : 43828.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9639.470+/-2.626  $\chi^2/\text{NDF}$ : 78016.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

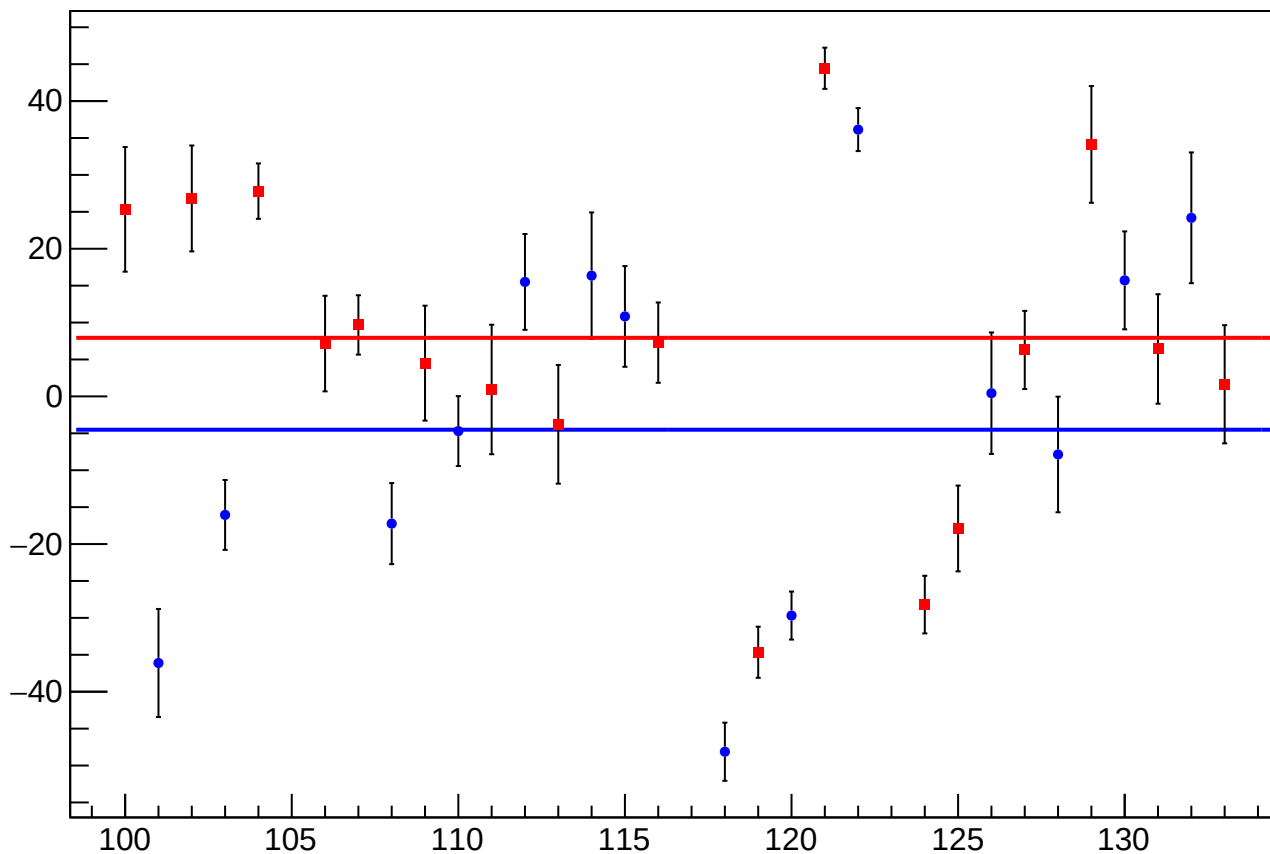
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9650.578+/-1.918  $\chi^2/\text{NDF}$ : 121883.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm0l02Y\_mean vs Slug



Right In: -4.512+/-1.356  $\chi^2/\text{NDF}$ : 448.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.933+/-1.229  $\chi^2/\text{NDF}$ : 482.2/16

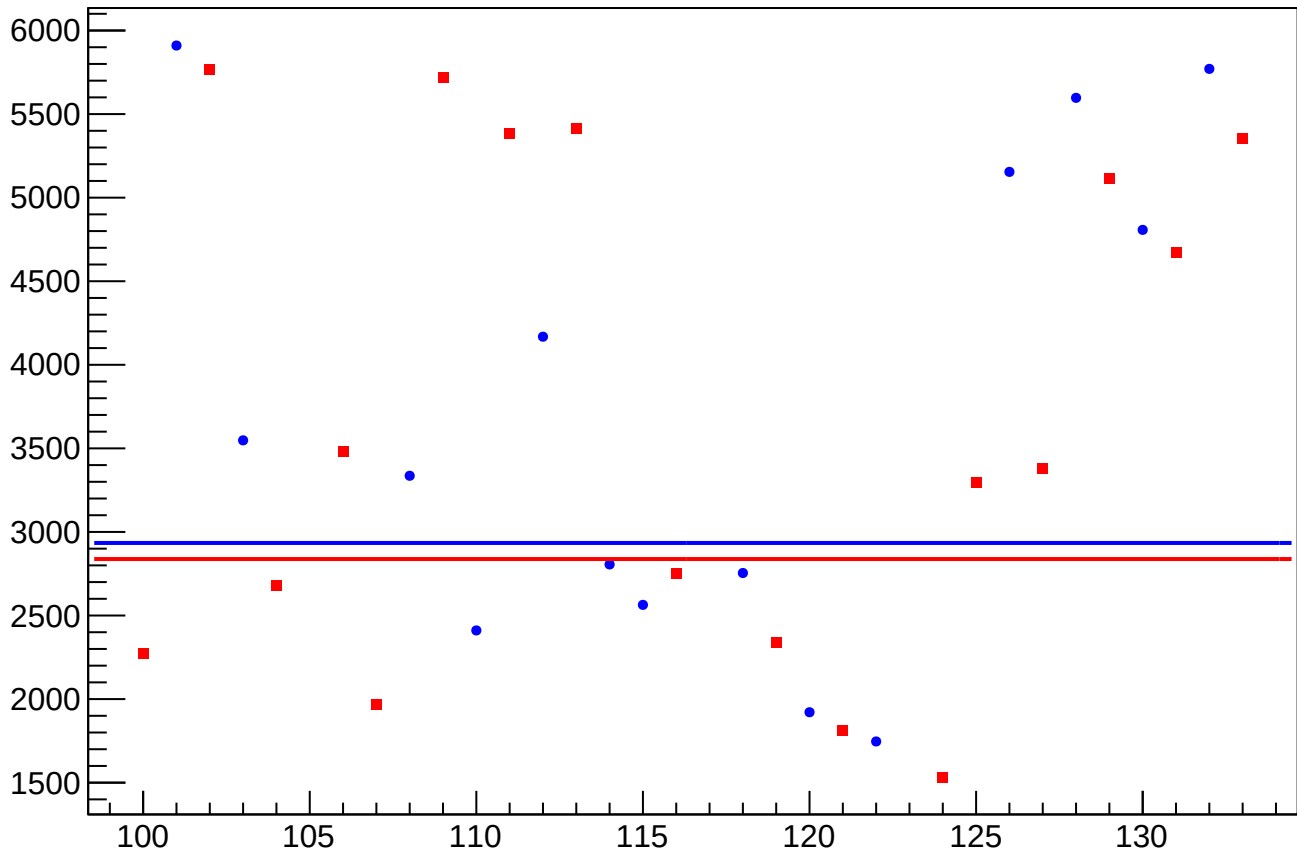
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.321+/-0.911  $\chi^2/\text{NDF}$ : 976.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l02Y\_rms vs Slug



Right In: 2934.128+/-0.959  $\chi^2/\text{NDF}$ : 1750643.4/13

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

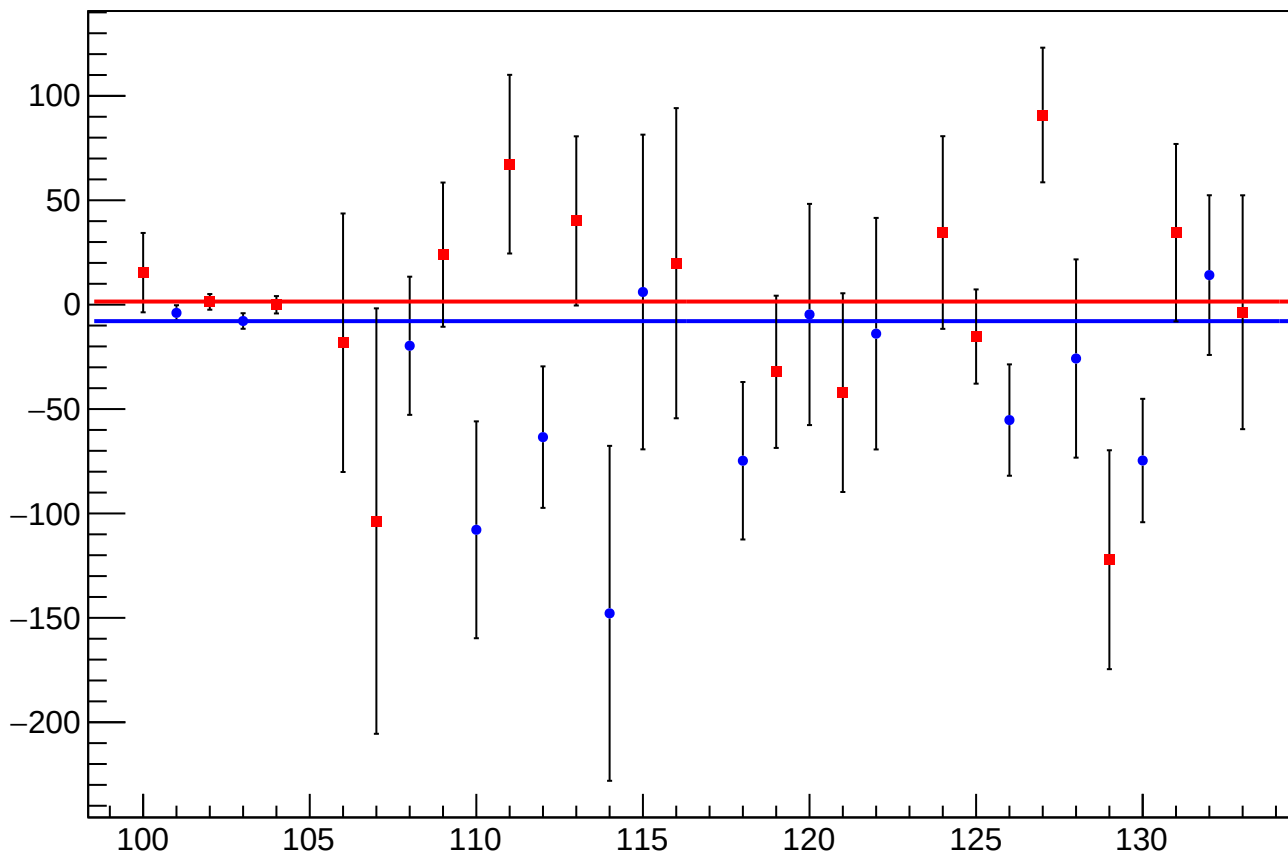
Right Out: 2837.993+/-0.869  $\chi^2/\text{NDF}$ : 2161952.2/16

All: 2881.350+/-0.644  $\chi^2/\text{NDF}$ : 3918111.6/30

- 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:  $-7.888 \pm 2.550$   $\chi^2/\text{NDF}$ : 22.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1.496 \pm 2.673$   $\chi^2/\text{NDF}$ : 22.2/16

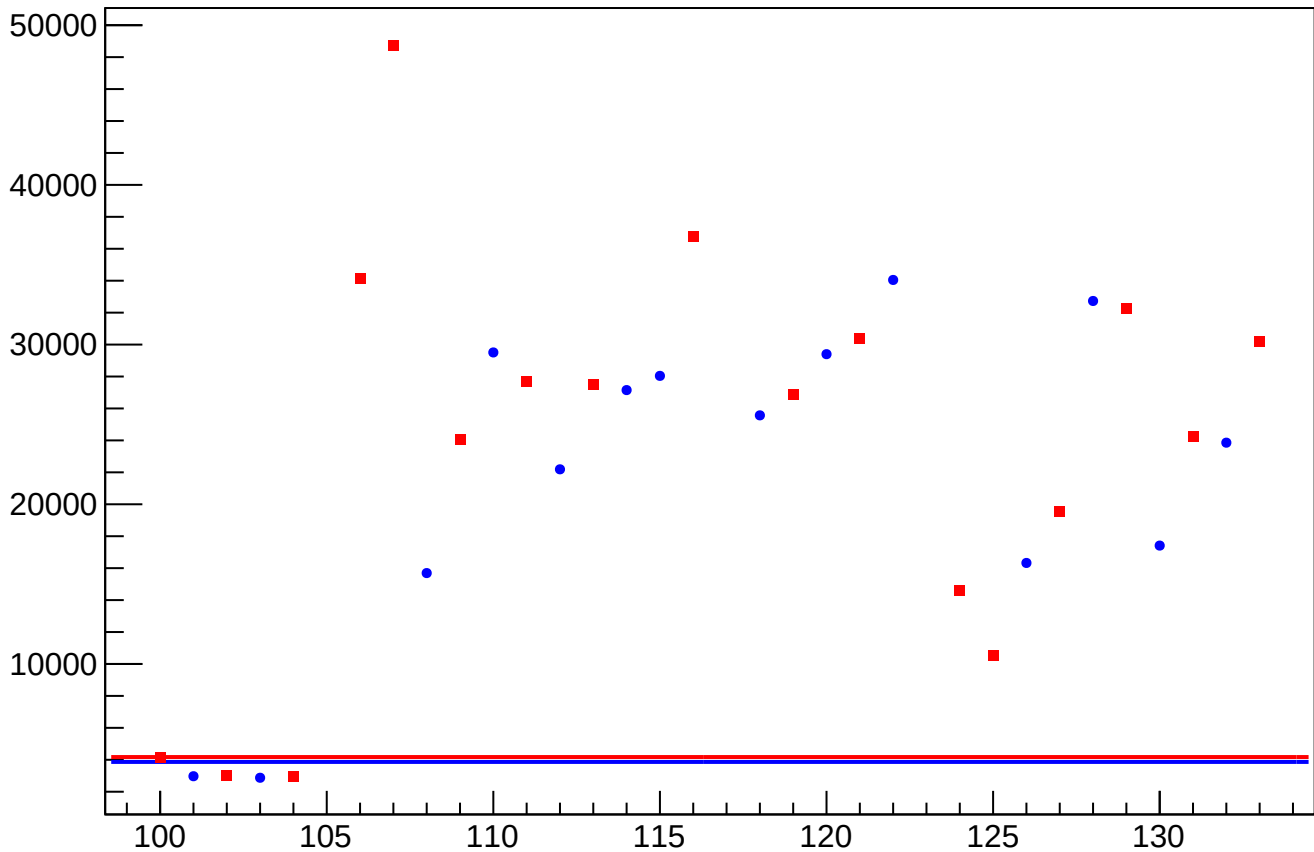
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-3.415 \pm 1.845$   $\chi^2/\text{NDF}$ : 51.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l03X\_rms vs Slug



Right In: 3866.286+/-1.803  $\chi^2/\text{NDF}$ : 5824598.8/13

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

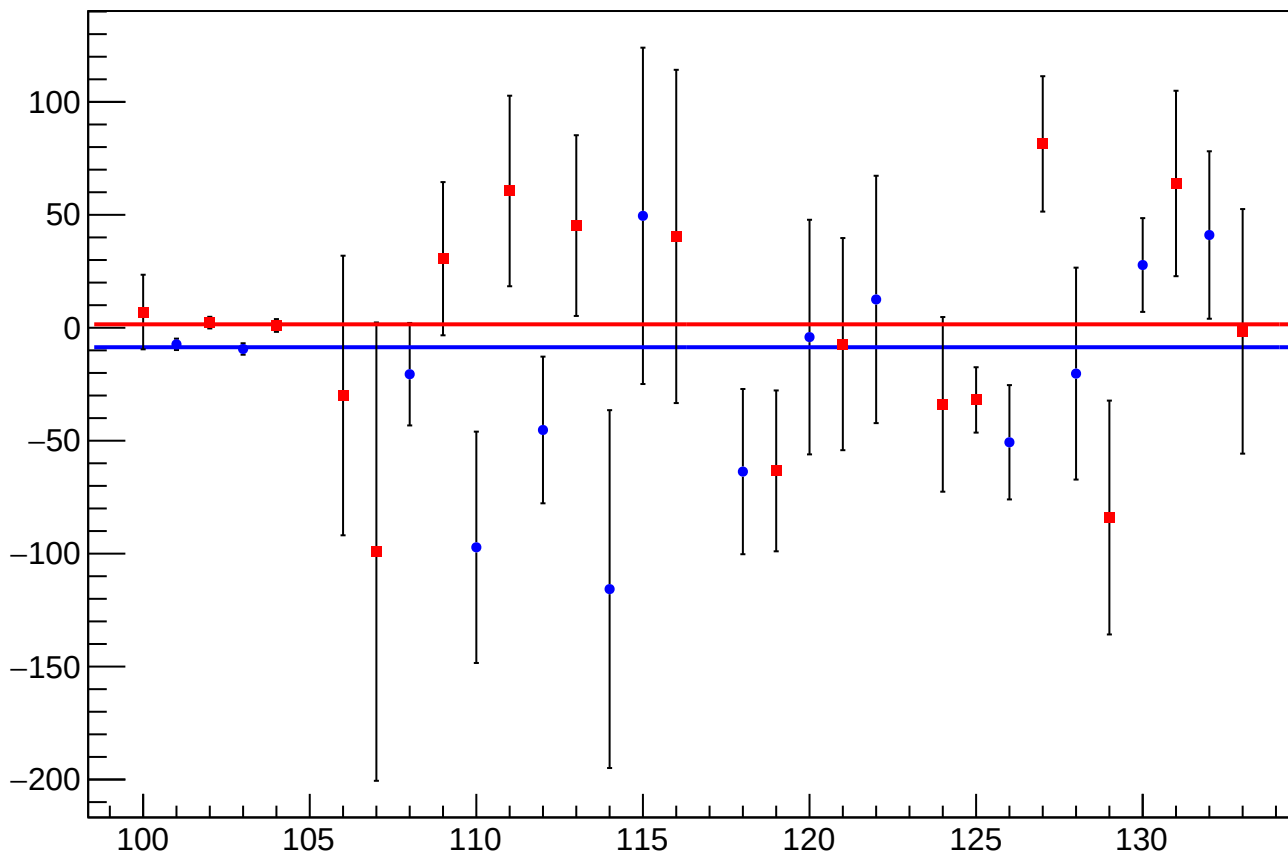
Right Out: 4170.974+/-1.890  $\chi^2/\text{NDF}$ : 7076385.8/16

All: 4011.503+/-1.305  $\chi^2/\text{NDF}$ : 12914588.1/3

- 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

# diff\_bpm0l03Y\_mean vs Slug



Right In: -8.613+/-1.761  $\chi^2/\text{NDF}$ : 17.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.526+/-1.852  $\chi^2/\text{NDF}$ : 27.3/16

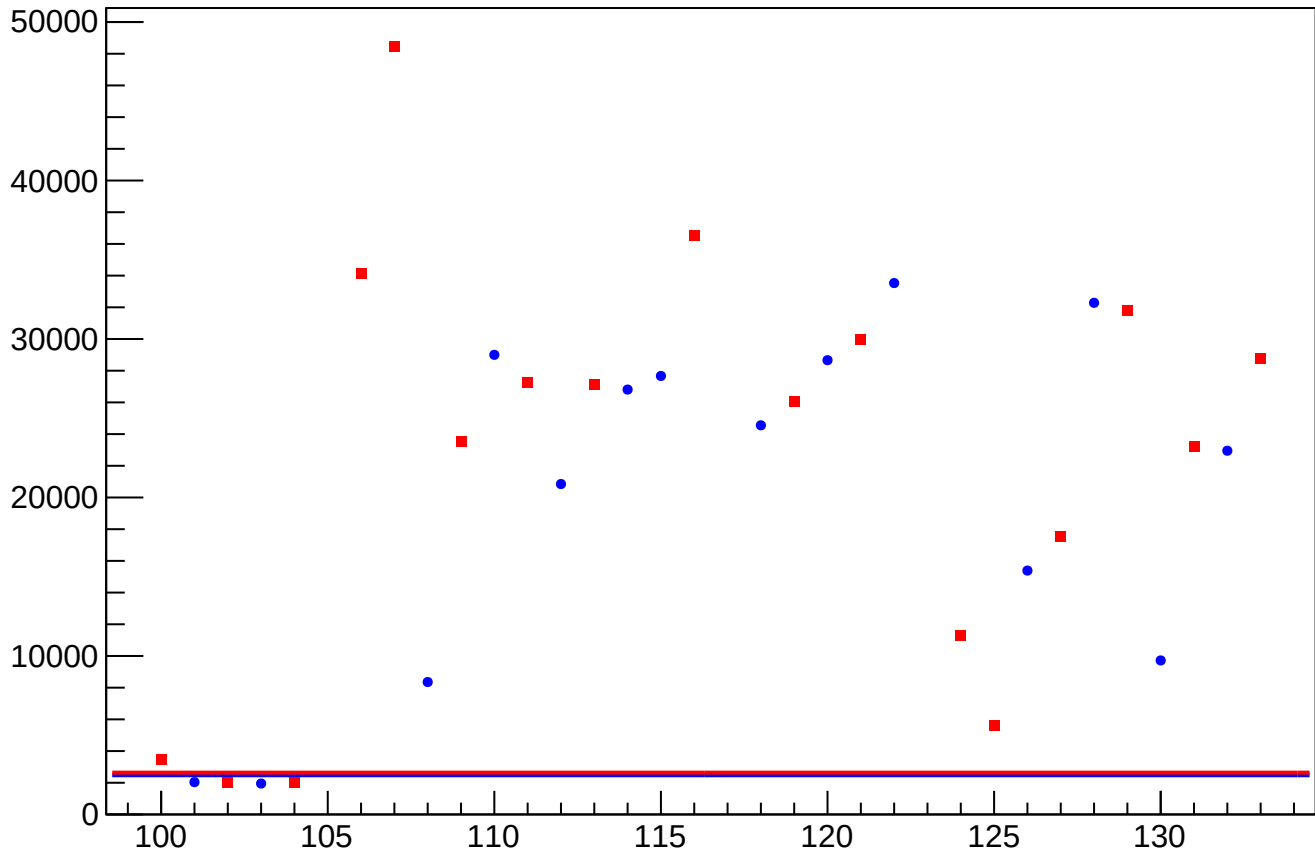
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.798+/-1.276  $\chi^2/\text{NDF}$ : 60.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l03Y\_rms vs Slug



Right In: 2473.418+/-1.245  $\chi^2/\text{NDF}$ : 5936940.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2638.594+/-1.310  $\chi^2/\text{NDF}$ : 7572592.7/16

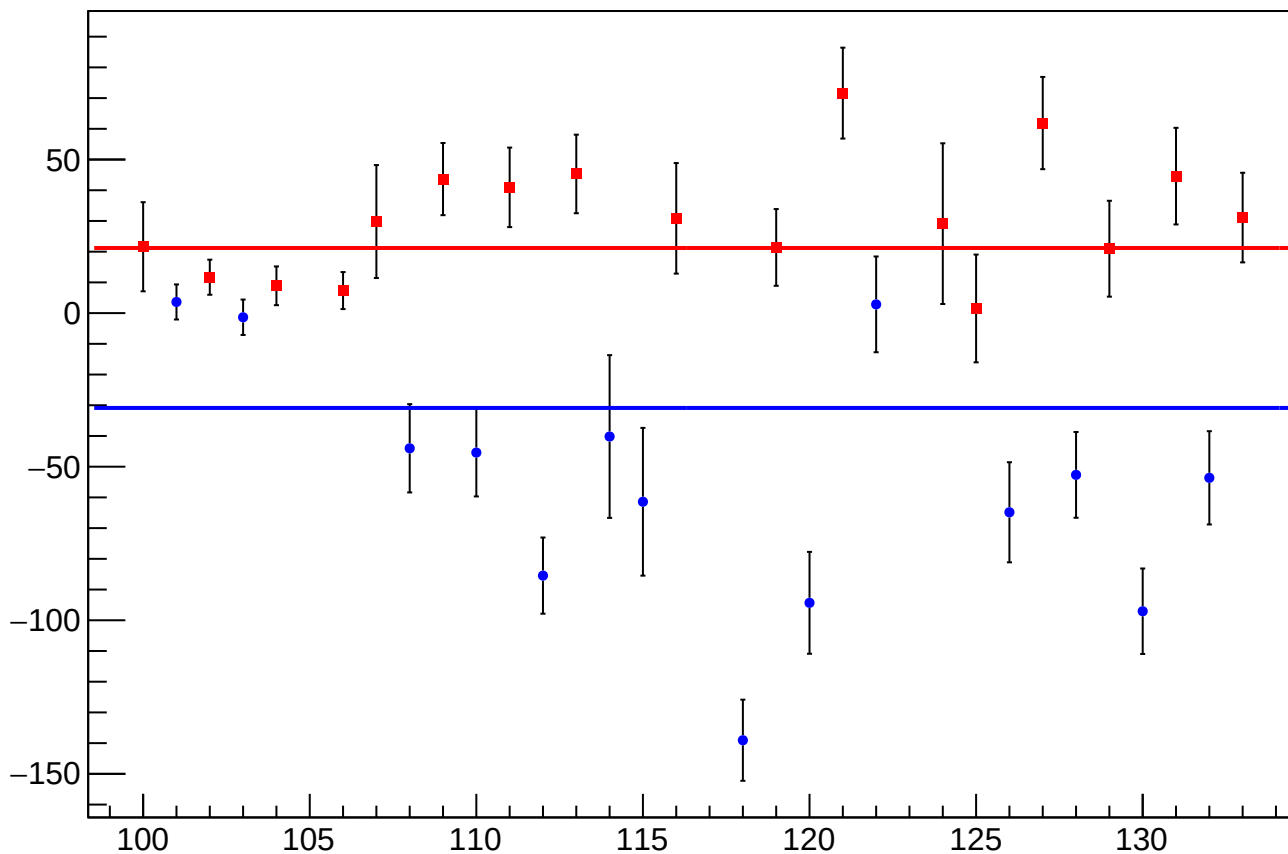
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2551.852+/-0.902  $\chi^2/\text{NDF}$ : 13517887.3/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l04X\_mean vs Slug



Right In:  $-30.873 \pm 2.987$   $\chi^2/\text{NDF}$ : 203.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $21.203 \pm 2.613$   $\chi^2/\text{NDF}$ : 44.9/16

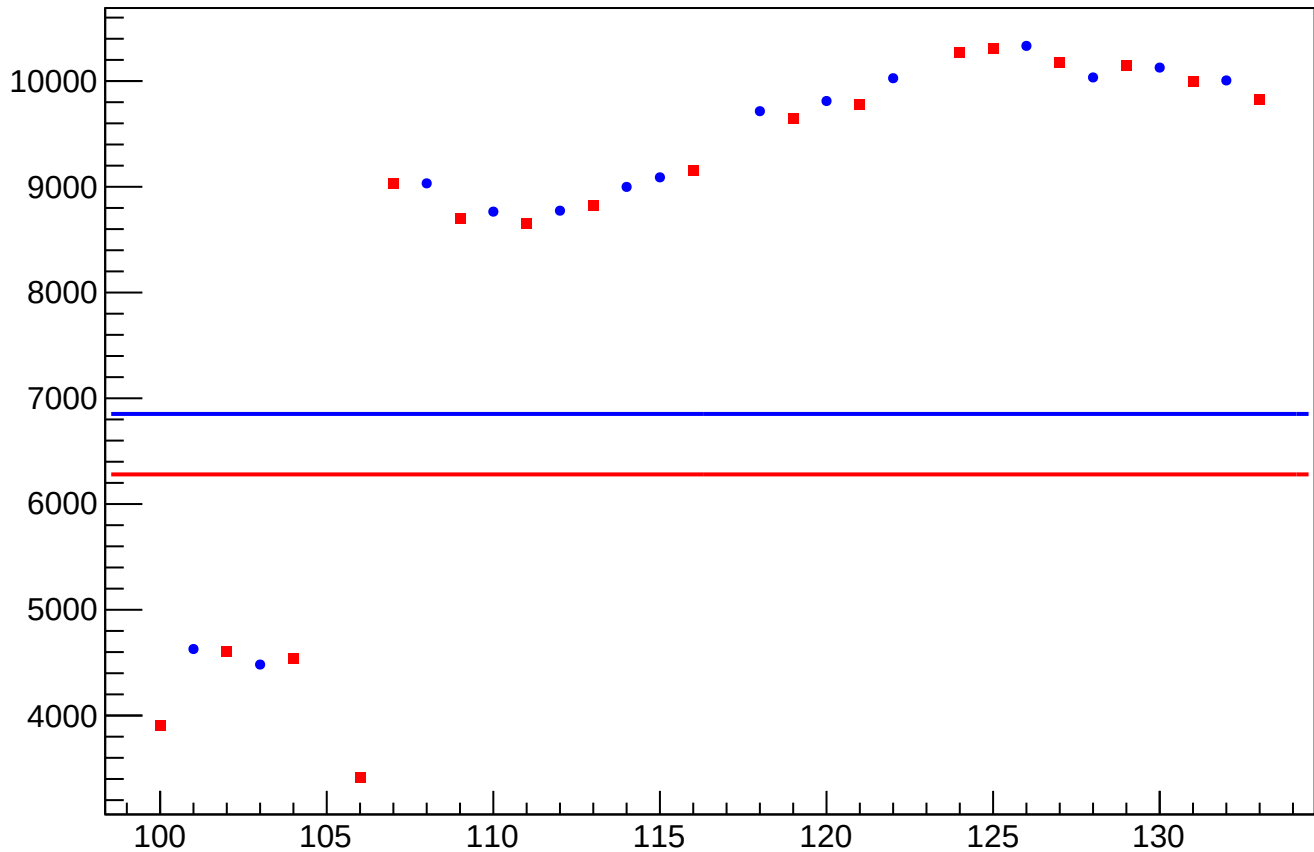
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.372 \pm 1.967$   $\chi^2/\text{NDF}$ : 420.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l04X\_rms vs Slug



Right In: 6852.076+/-2.112  $\chi^2/\text{NDF}$ : 1434946.8/13

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: 6280.318+/-1.848  $\chi^2/\text{NDF}$ : 2052898.4/16

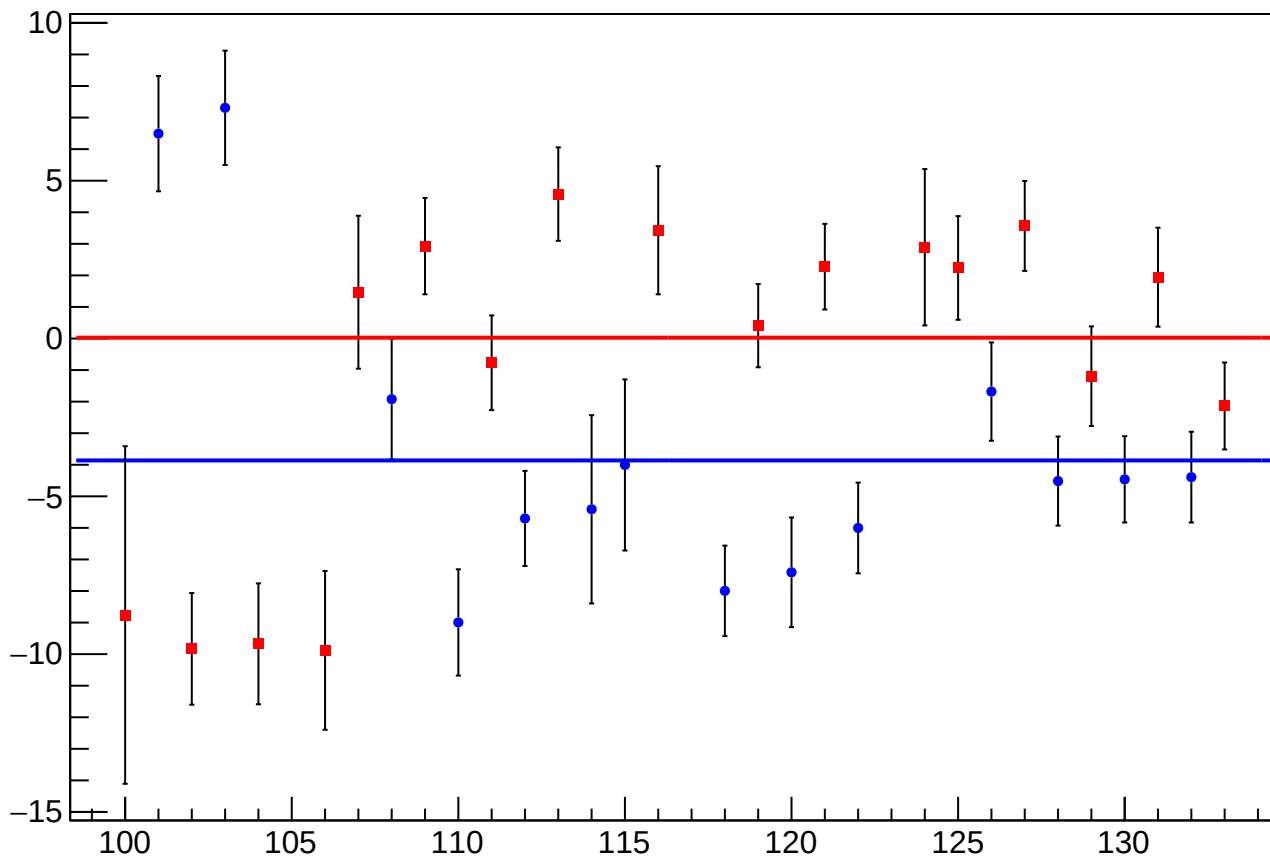
All: 6528.171+/-1.391  $\chi^2/\text{NDF}$ : 3529361.9/30

- 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: -3.863+/-0.440  $\chi^2/\text{NDF}$ : 99.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.026+/-0.408  $\chi^2/\text{NDF}$ : 108.1/16

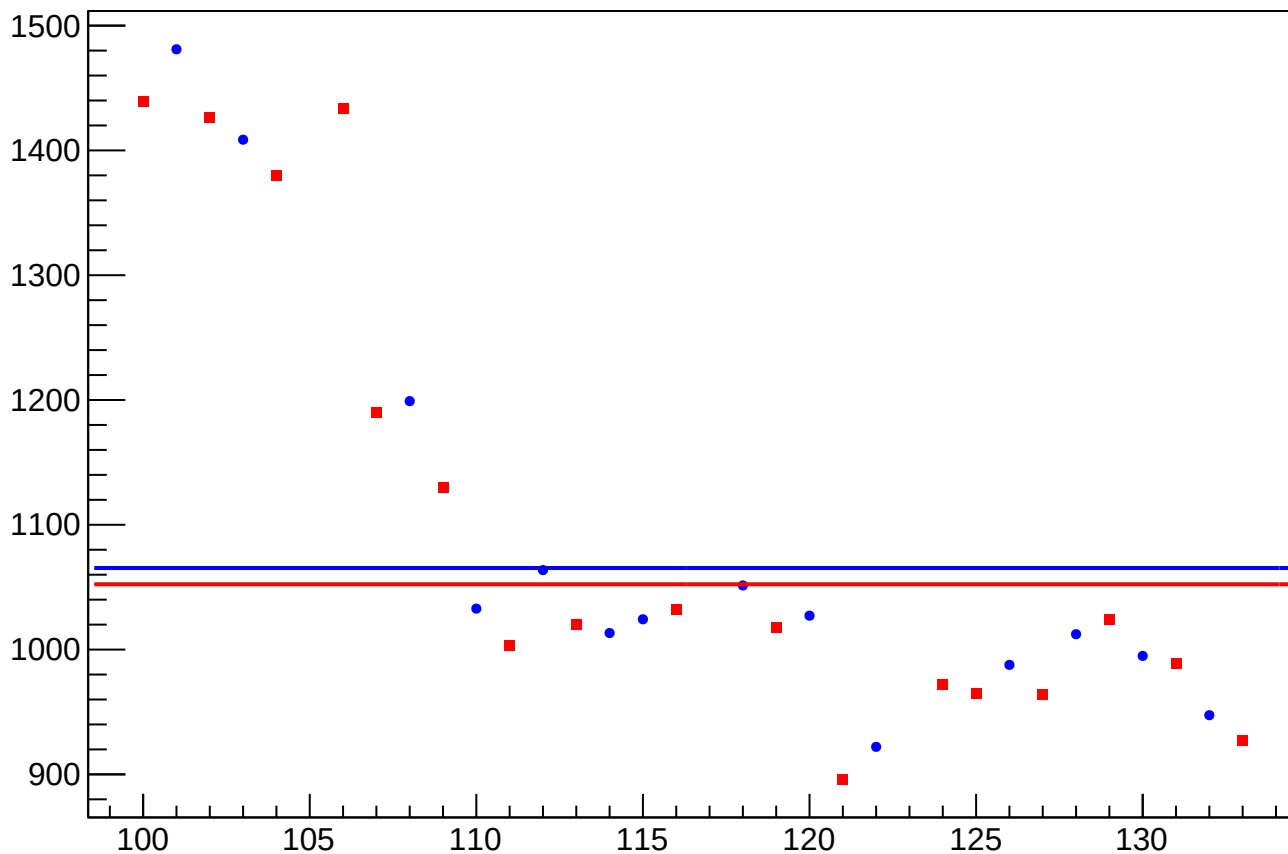
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.770+/-0.299  $\chi^2/\text{NDF}$ : 249.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l04Y\_rms vs Slug



Right In: 1065.368 $\pm$ 0.311  $\chi^2$ /NDF: 234623.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1052.331 $\pm$ 0.288  $\chi^2$ /NDF: 283288.2/16

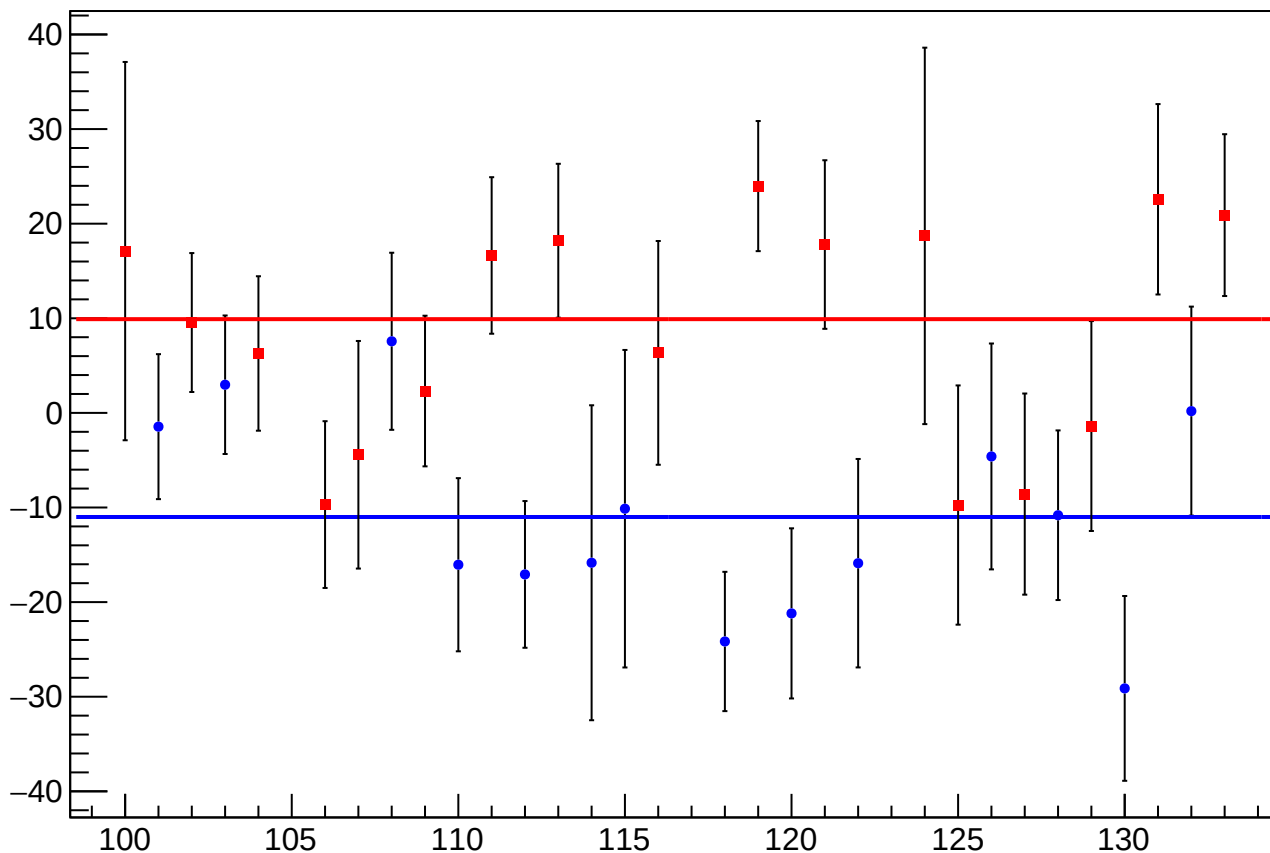
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1058.352 $\pm$ 0.212  $\chi^2$ /NDF: 518854.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l05X\_mean vs Slug



Right In: -11.004 $\pm$ 2.500  $\chi^2$ /NDF: 19.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 9.908 $\pm$ 2.285  $\chi^2$ /NDF: 24.3/16

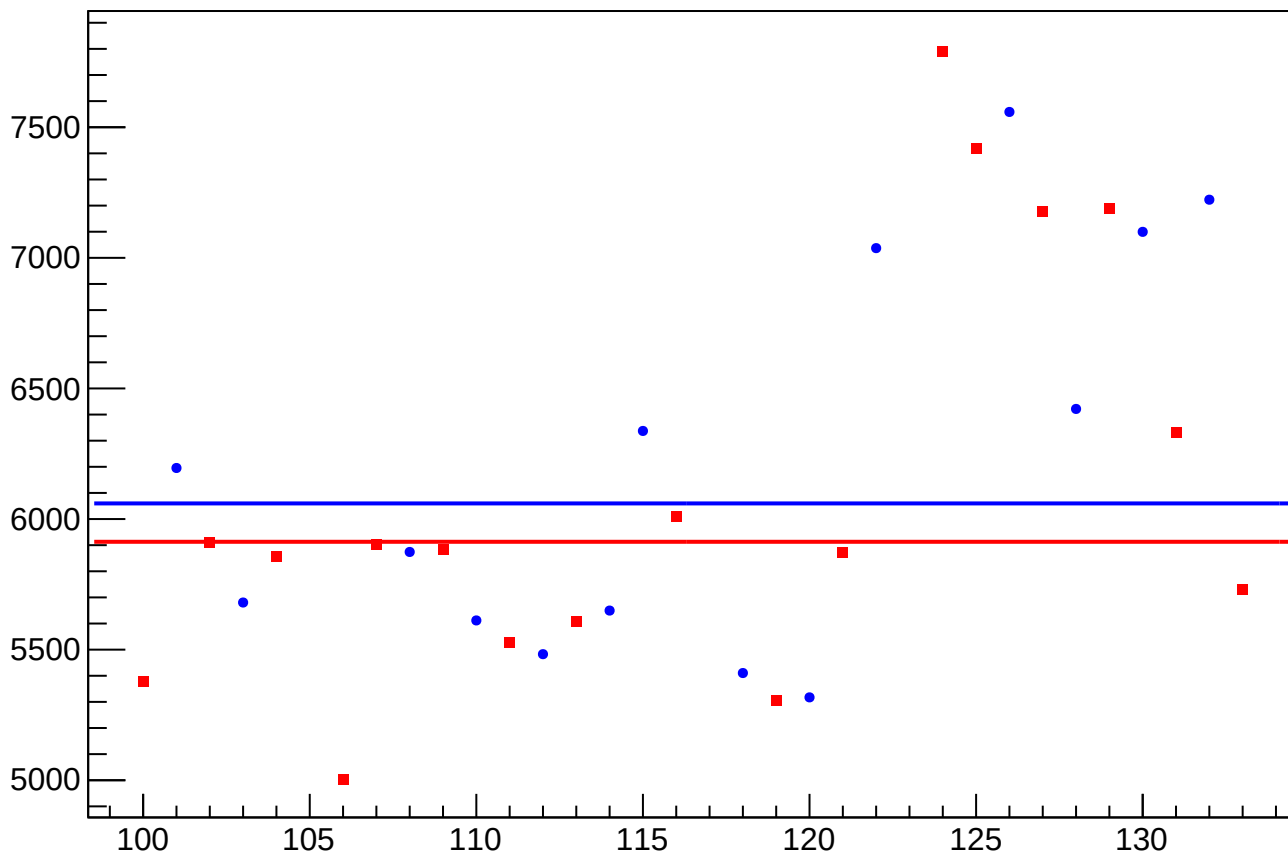
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.389 $\pm$ 1.686  $\chi^2$ /NDF: 82.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l05X\_rms vs Slug



Right In: 6059.827+/-1.768  $\chi^2/\text{NDF}$ : 148966.7/13

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

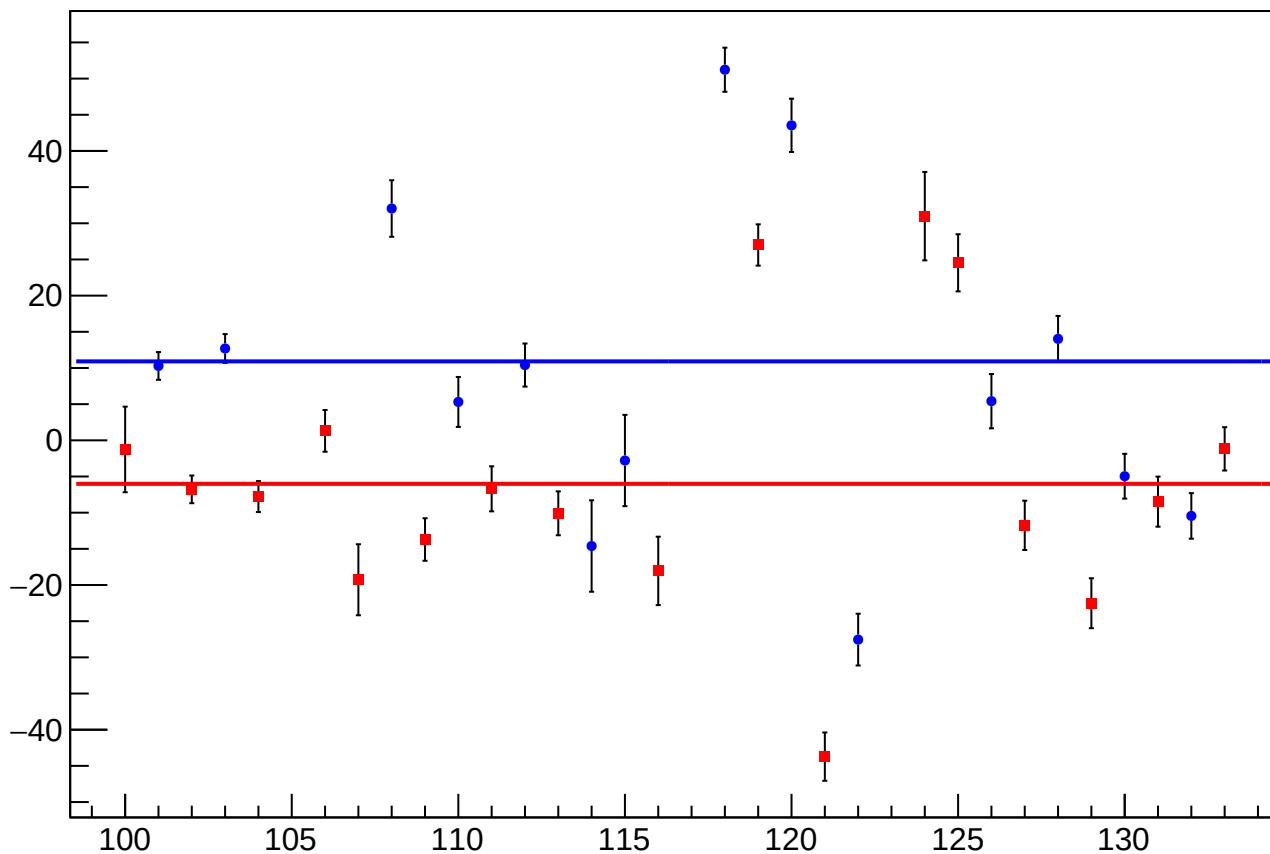
Right Out: 5912.938+/-1.616  $\chi^2/\text{NDF}$ : 150980.4/16

All: 5979.800+/-1.193  $\chi^2/\text{NDF}$ : 303709.6/30

- 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\_bpm0l05Y\_mean vs Slug



Right In: 10.913 $\pm$ 0.824  $\chi^2$ /NDF: 497.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -6.016 $\pm$ 0.762  $\chi^2$ /NDF: 417.0/16

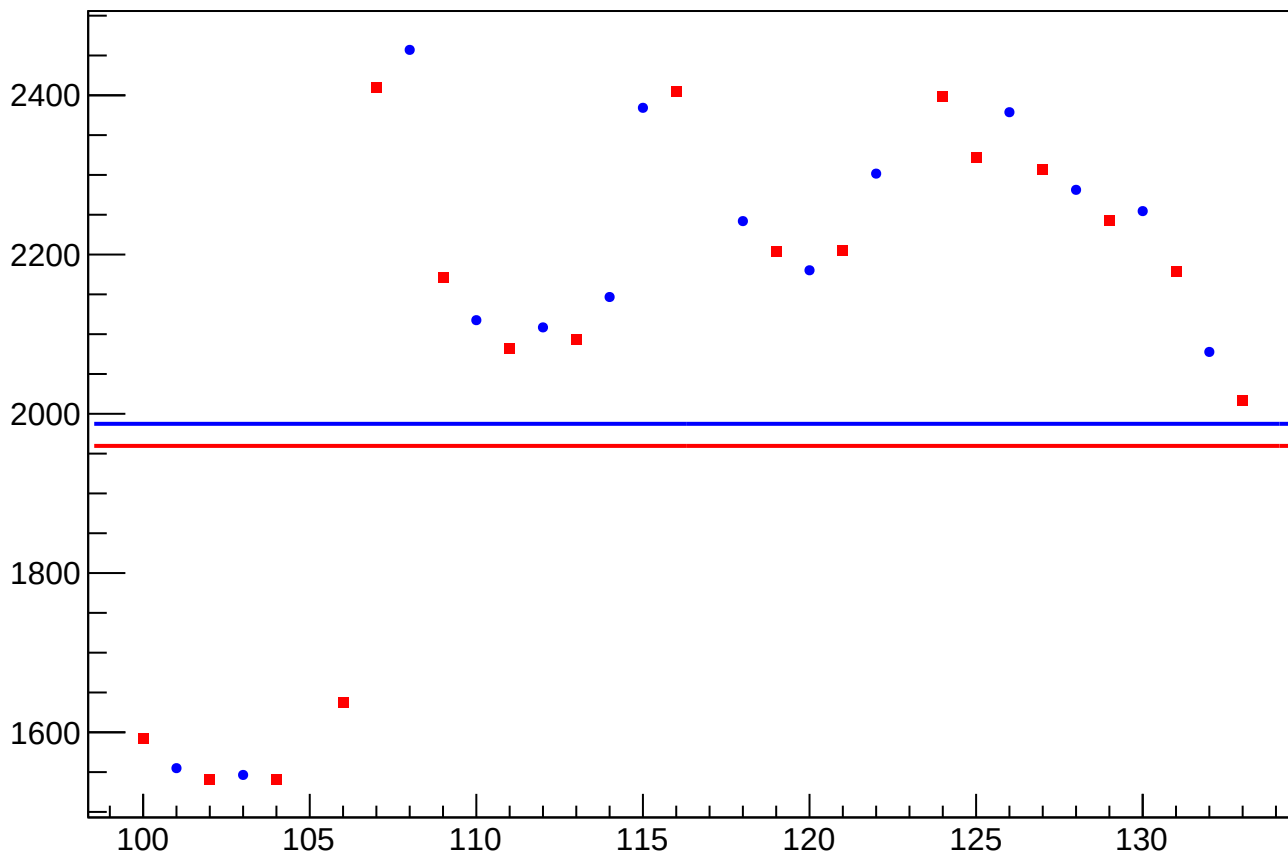
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.782 $\pm$ 0.559  $\chi^2$ /NDF: 1142.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l05Y\_rms vs Slug



Right In: 1987.412+/-0.583  $\chi^2/\text{NDF}$ : 334591.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1959.683+/-0.539  $\chi^2/\text{NDF}$ : 353035.8/16

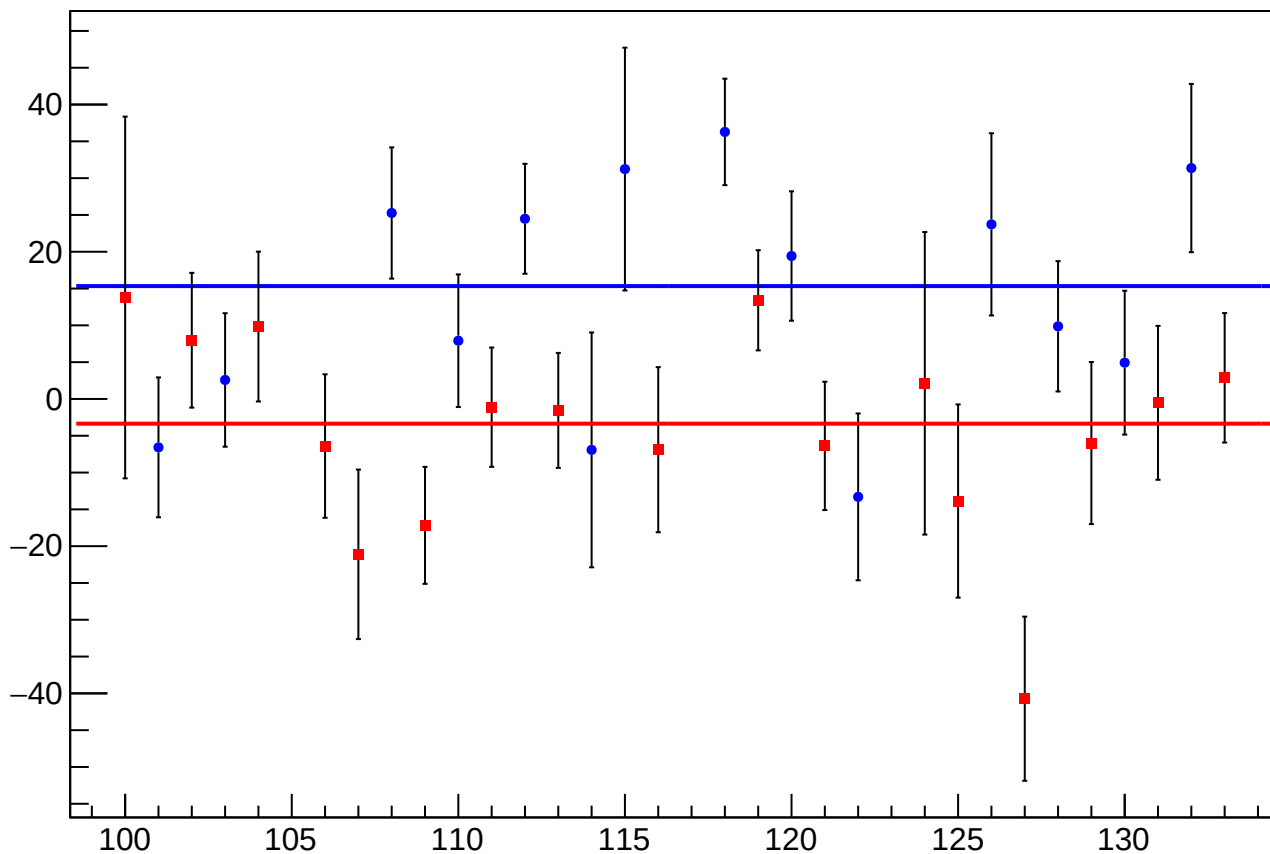
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1972.455+/-0.396  $\chi^2/\text{NDF}$ : 688848.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l06X\_mean vs Slug



Right In: 15.334+/-2.574  $\chi^2/\text{NDF}$ : 32.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.358+/-2.370  $\chi^2/\text{NDF}$ : 28.2/16

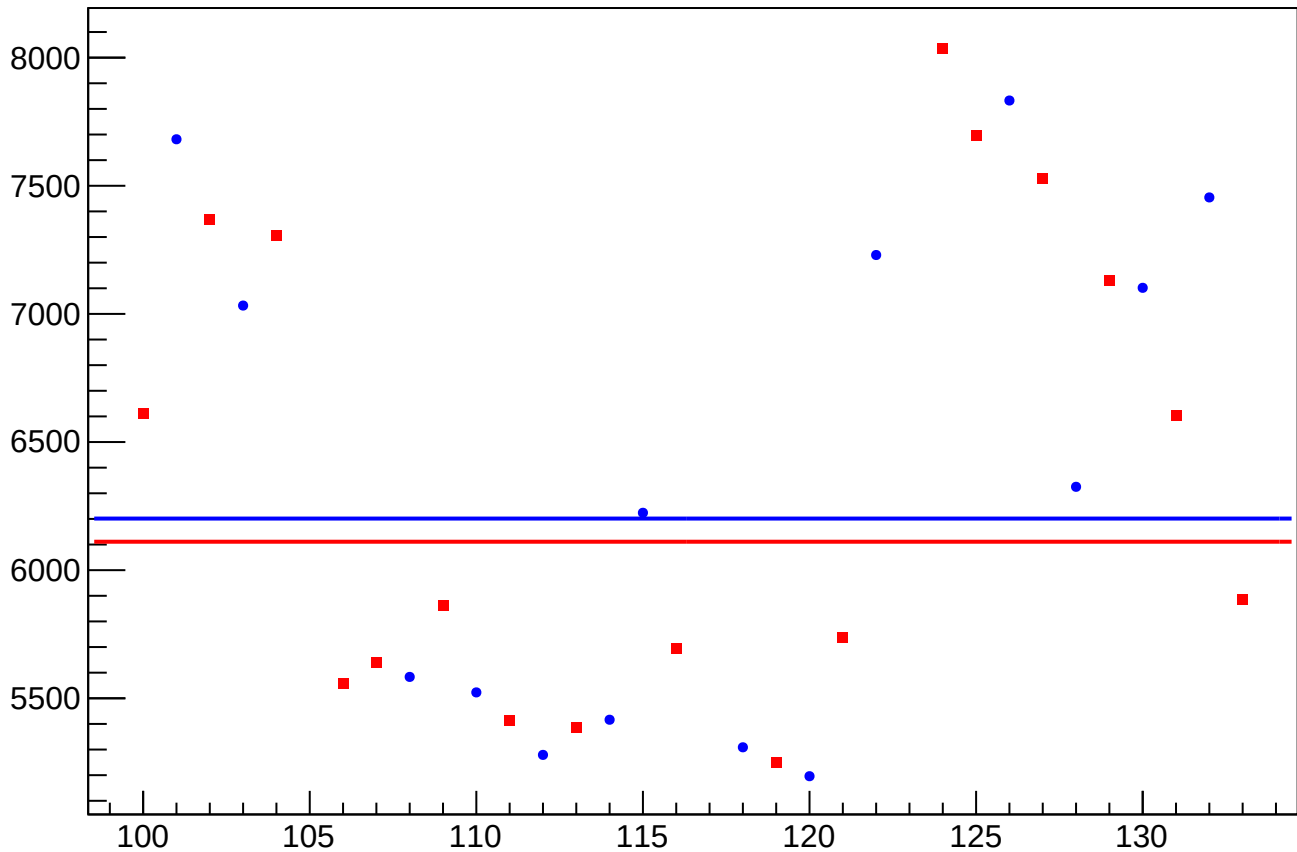
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5.219+/-1.744  $\chi^2/\text{NDF}$ : 89.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l06X\_rms vs Slug



Right In: 6201.376+/-1.820  $\chi^2/\text{NDF}$ : 270890.2/13

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: 6111.009+/-1.676  $\chi^2/\text{NDF}$ : 250284.1/16

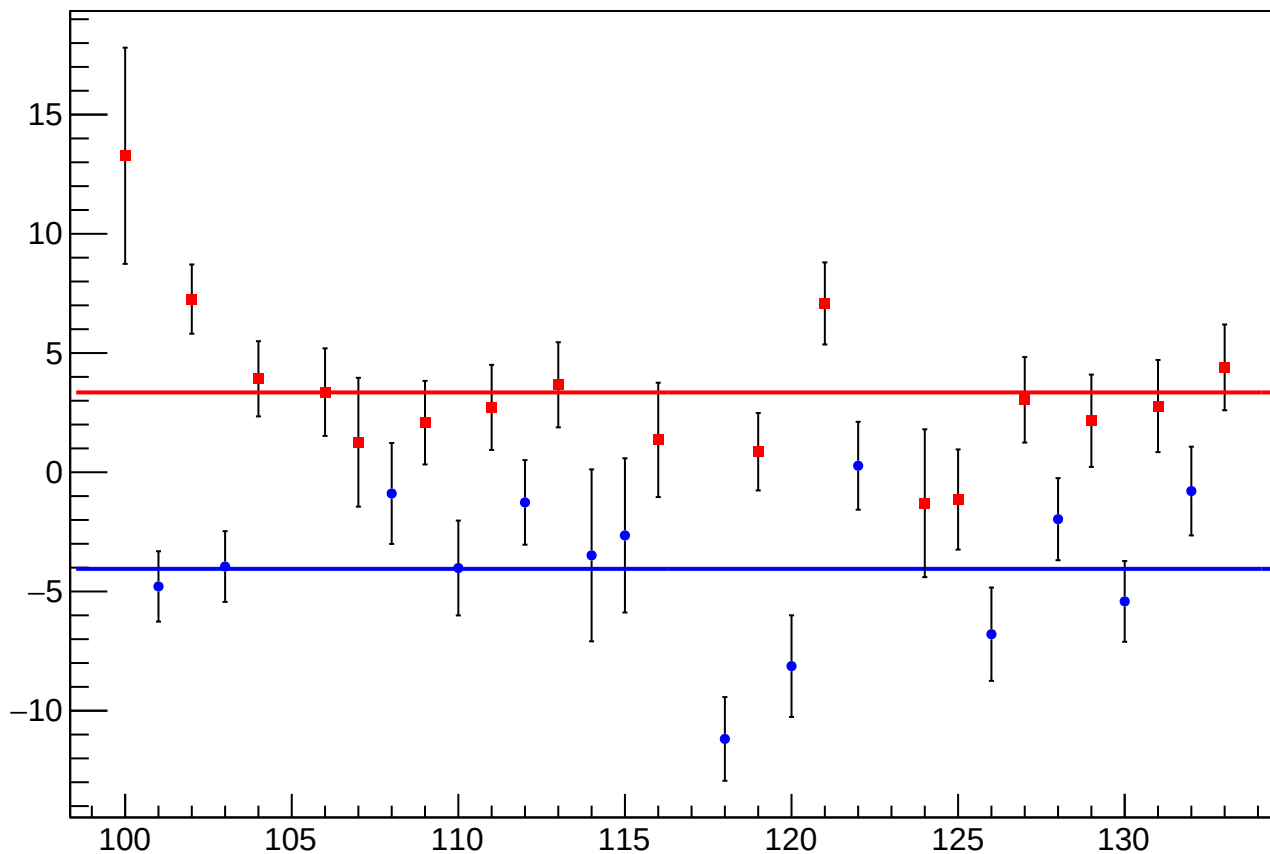
All: 6152.476+/-1.233  $\chi^2/\text{NDF}$ : 522508.2/30

- 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\_bpm0l06Y\_mean vs Slug



Right In: -4.051+/-0.503  $\chi^2/\text{NDF}$ : 38.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.349+/-0.462  $\chi^2/\text{NDF}$ : 28.9/16

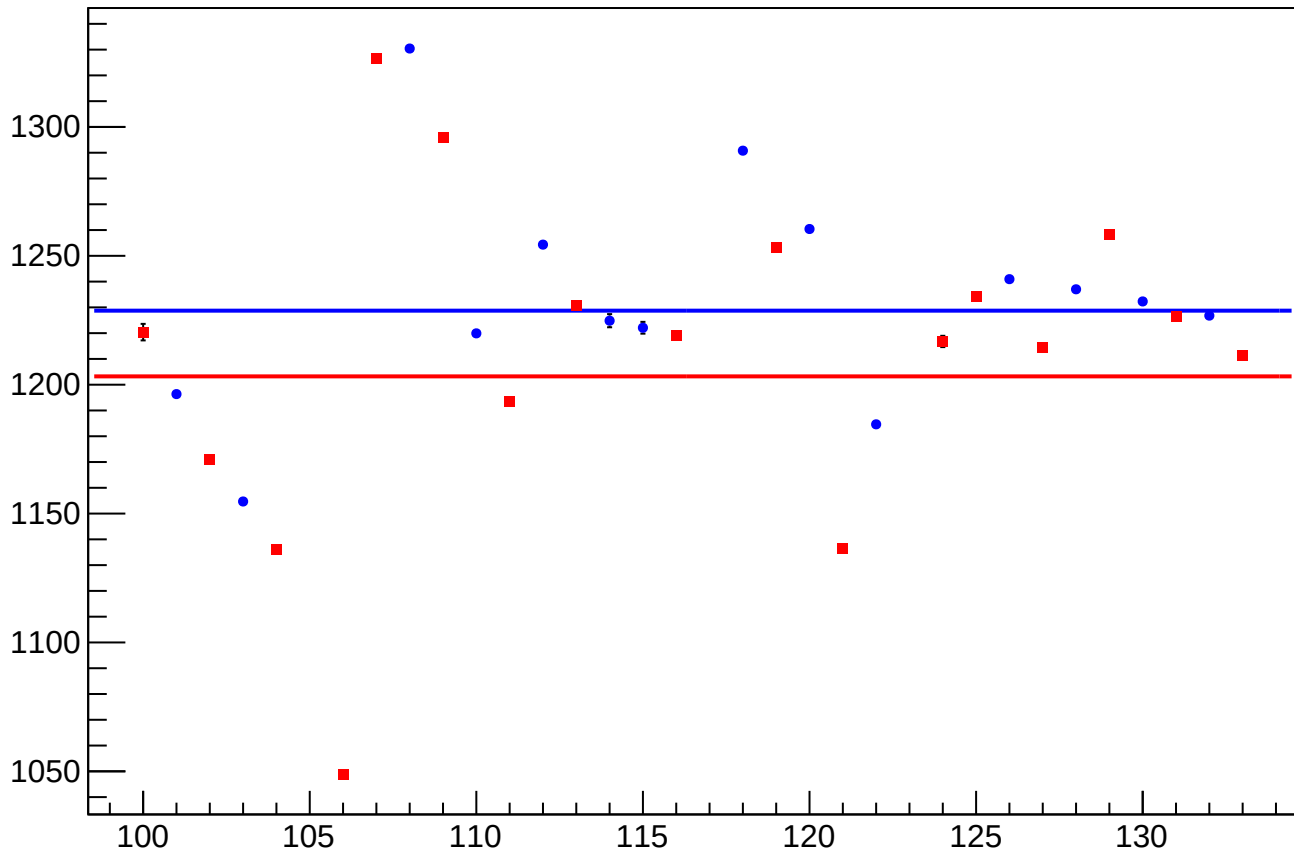
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.037+/-0.340  $\chi^2/\text{NDF}$ : 184.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l06Y\_rms vs Slug



Right In: 1228.724+/-0.356  $\chi^2/\text{NDF}$ : 15246.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1203.229+/-0.327  $\chi^2/\text{NDF}$ : 36577.0/16

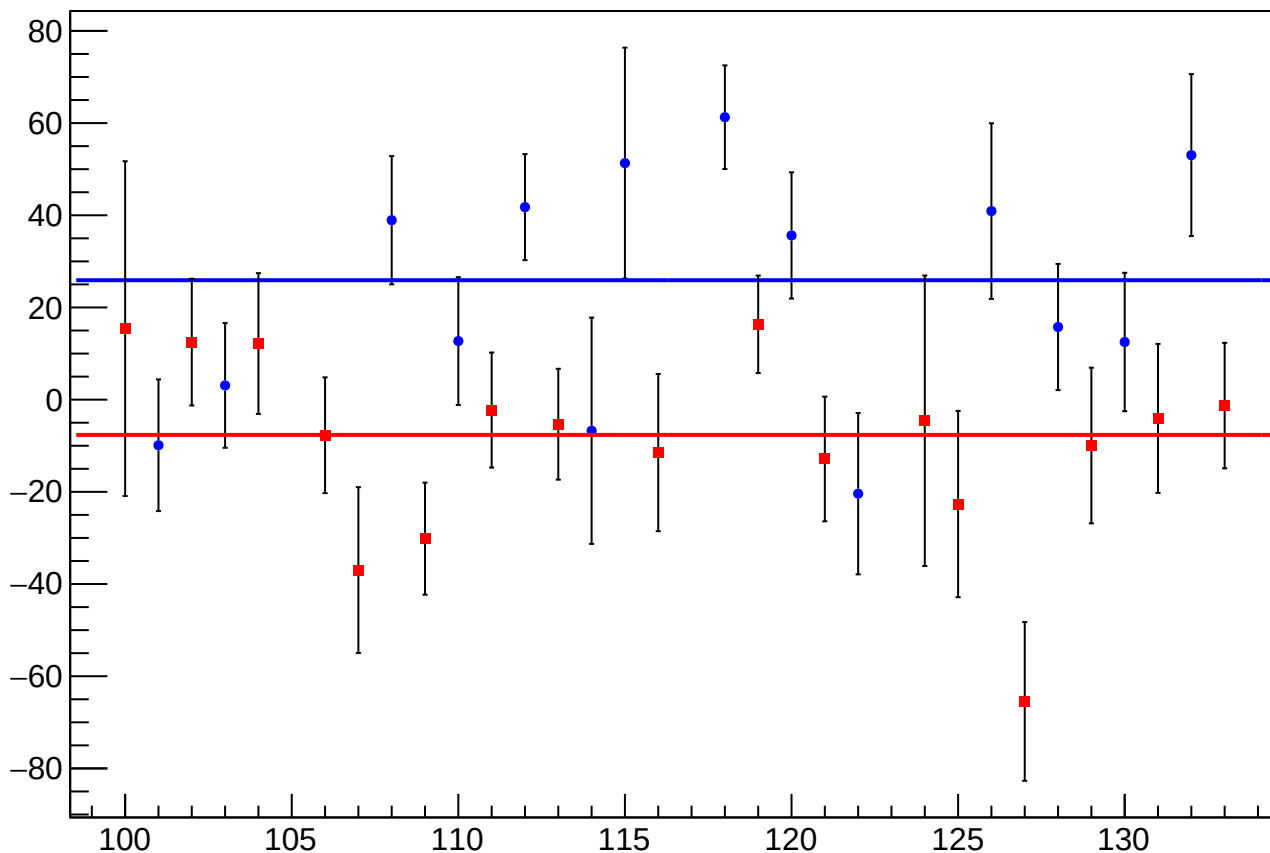
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1214.895+/-0.241  $\chi^2/\text{NDF}$ : 54612.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l07X\_mean vs Slug



Right In: 25.913+/-3.958  $\chi^2$ /NDF: 37.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -7.642+/-3.597  $\chi^2$ /NDF: 28.0/16

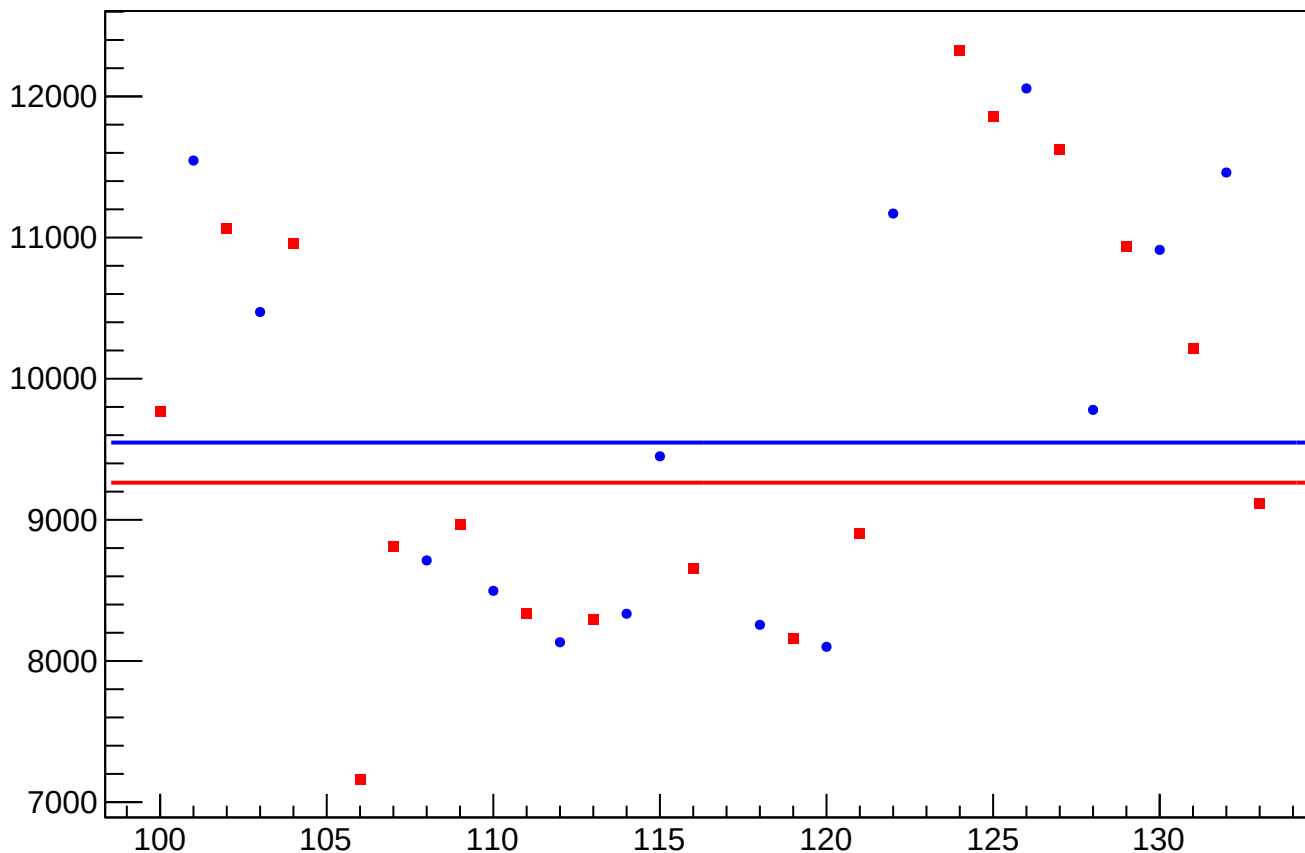
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 7.535+/-2.662  $\chi^2$ /NDF: 104.7/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l07X\_rms vs Slug



Right In: 9547.546+/-2.799  $\chi^2/\text{NDF}$ : 243773.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9263.502+/-2.544  $\chi^2/\text{NDF}$ : 283890.3/16

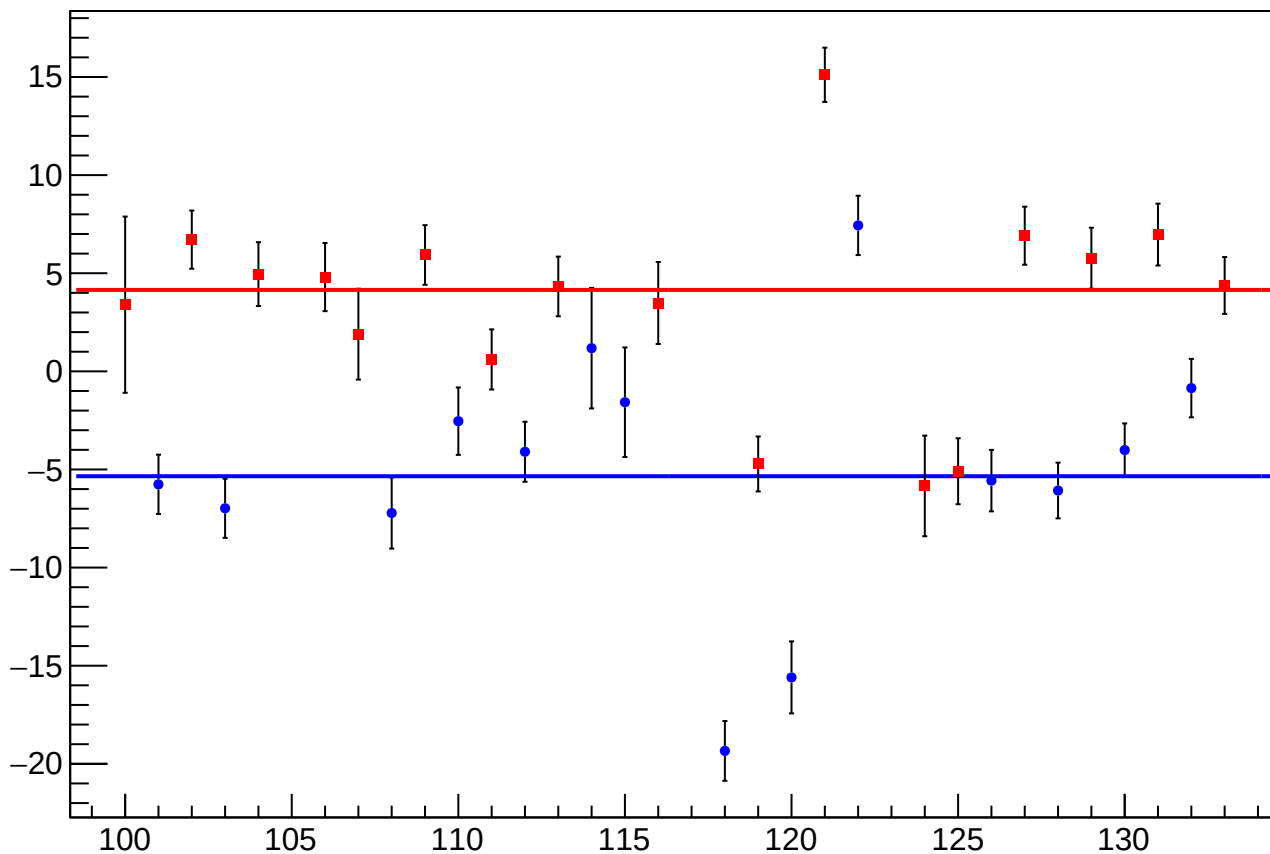
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9391.975+/-1.882  $\chi^2/\text{NDF}$ : 533304.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l07Y\_mean vs Slug



Right In:  $-5.345 \pm 0.436$   $\chi^2/\text{NDF}$ : 209.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $4.150 \pm 0.401$   $\chi^2/\text{NDF}$ : 167.4/16

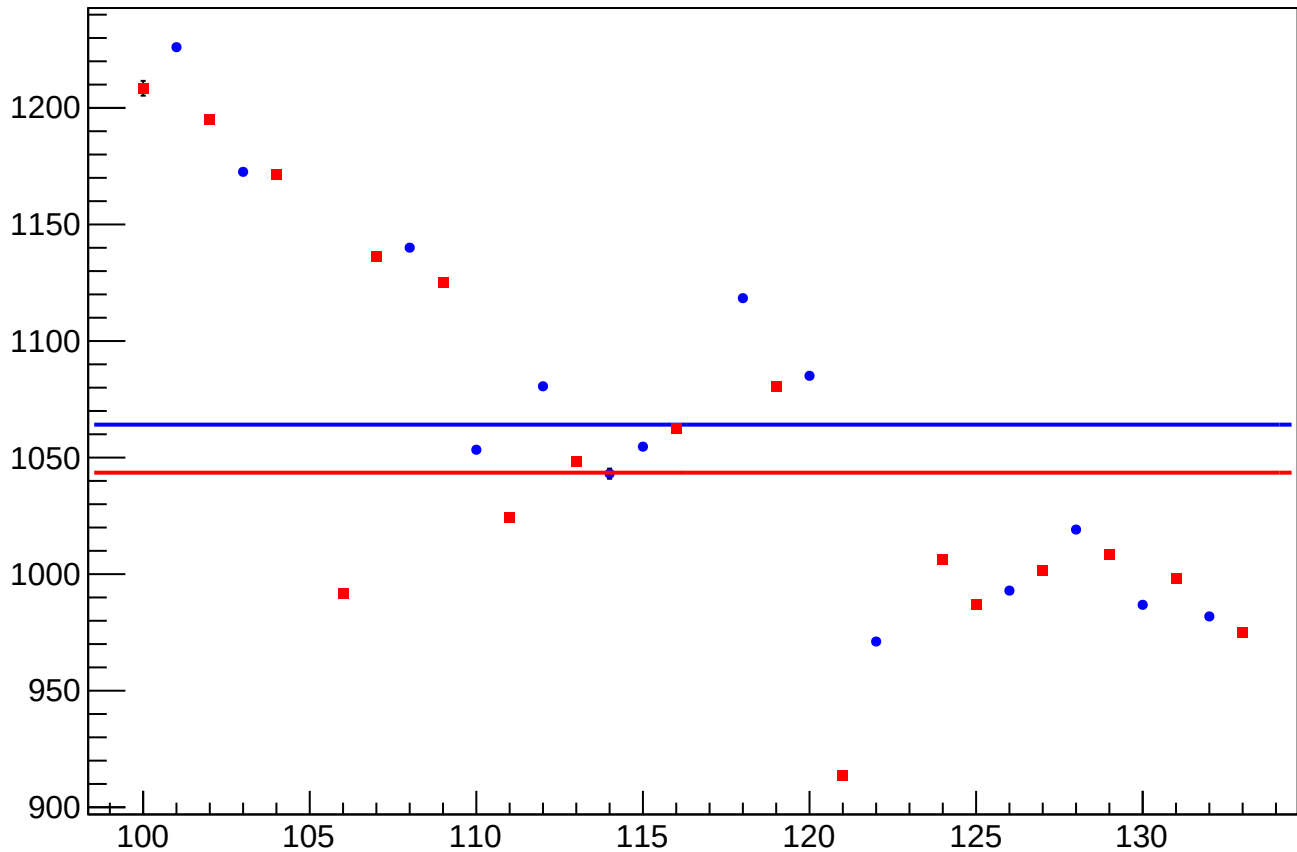
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.198 \pm 0.295$   $\chi^2/\text{NDF}$ : 633.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l07Y\_rms vs Slug



Right In: 1064.134 $\pm$ 0.309  $\chi^2$ /NDF: 66352.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1043.534 $\pm$ 0.284  $\chi^2$ /NDF: 77745.9/16

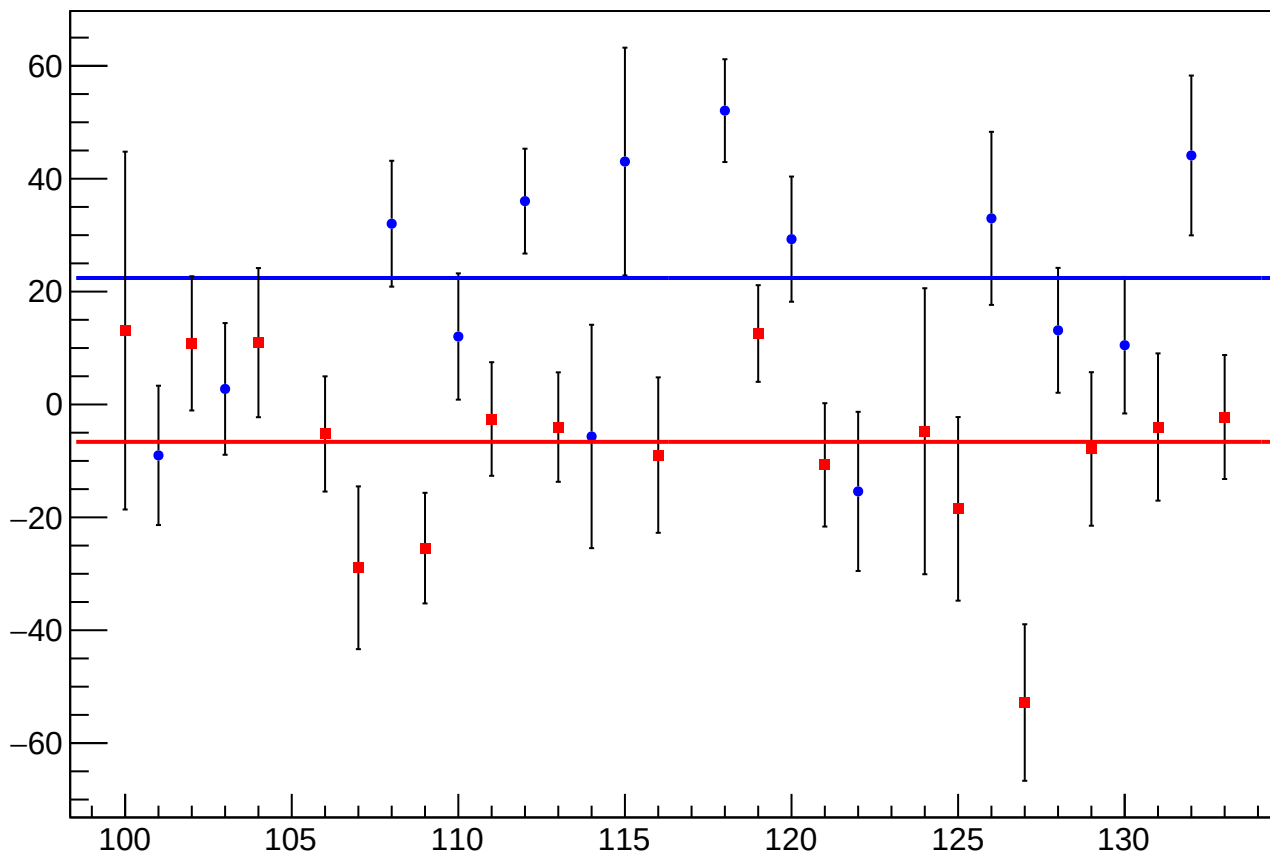
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1052.967 $\pm$ 0.209  $\chi^2$ /NDF: 146513.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l08X\_mean vs Slug



Right In: 22.411+/-3.227  $\chi^2$ /NDF: 38.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -6.622+/-2.930  $\chi^2$ /NDF: 27.7/16

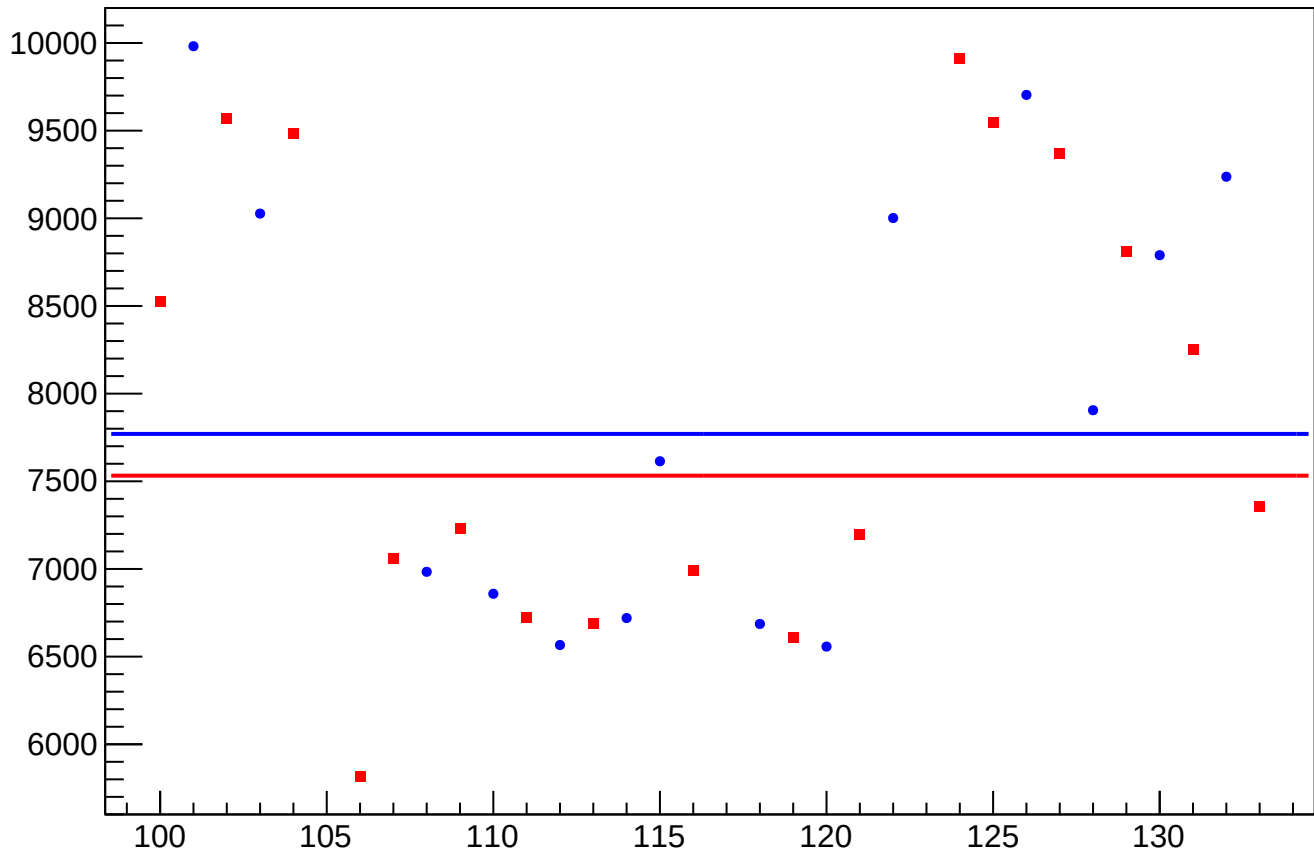
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 6.494+/-2.169  $\chi^2$ /NDF: 110.9/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l08X\_rms vs Slug



Right In: 7770.214+/-2.282  $\chi^2/\text{NDF}$ : 285305.2/13

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: 7532.093+/-2.072  $\chi^2/\text{NDF}$ : 328744.7/16

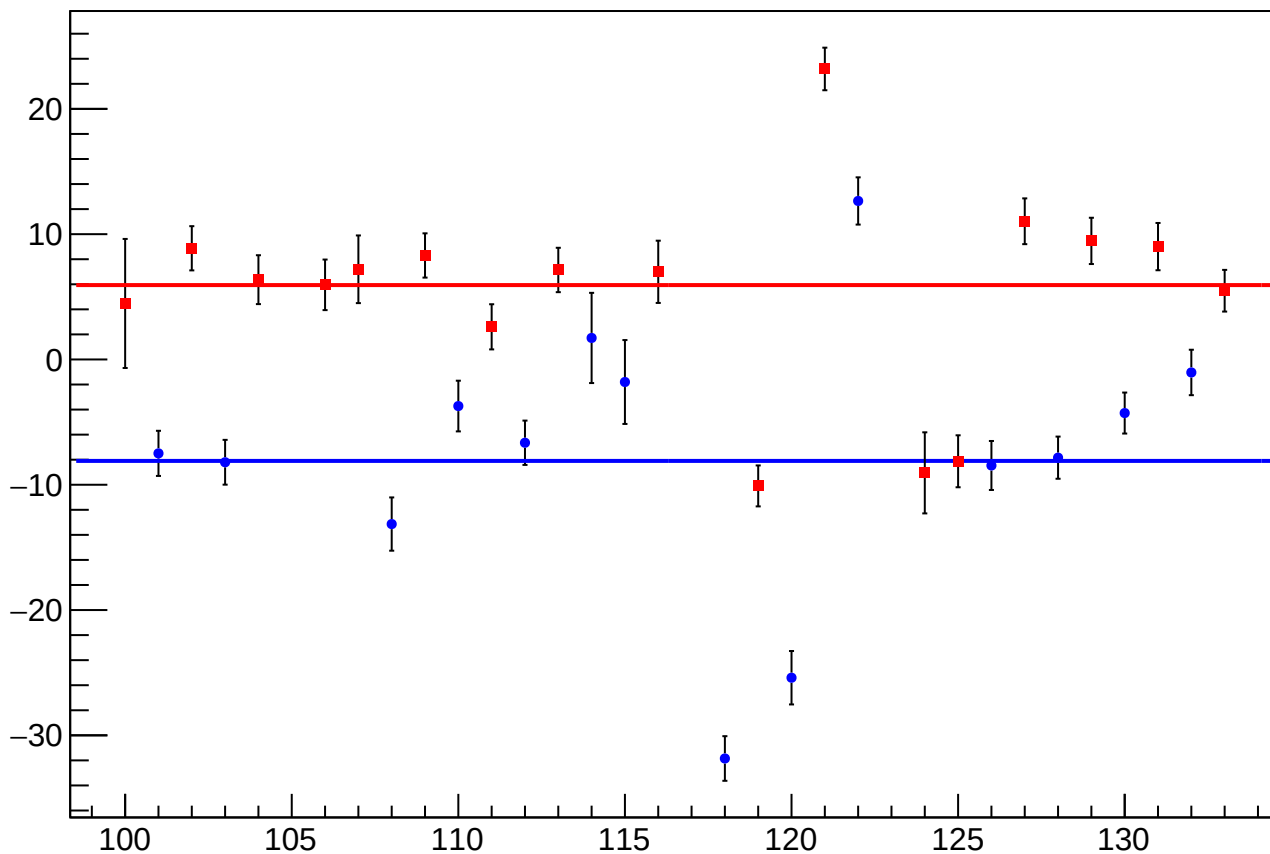
All: 7639.668+/-1.534  $\chi^2/\text{NDF}$ : 620019.2/30

- 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\_bpm0l08Y\_mean vs Slug



Right In:  $-8.097 \pm 0.521$   $\chi^2/\text{NDF}$ : 407.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $5.937 \pm 0.477$   $\chi^2/\text{NDF}$ : 289.9/16

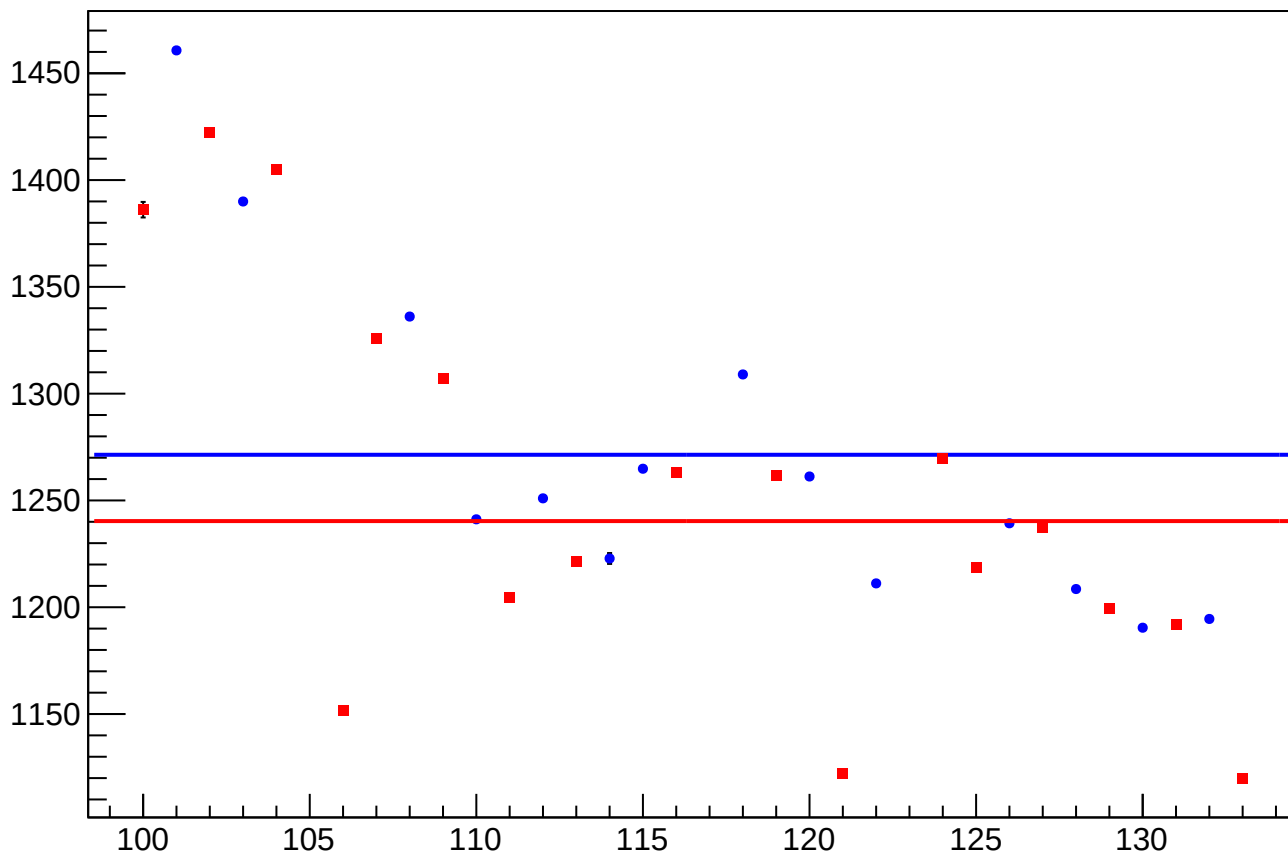
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.459 \pm 0.352$   $\chi^2/\text{NDF}$ : 1092.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l08Y\_rms vs Slug



Right In: 1271.384 $\pm$ 0.368  $\chi^2$ /NDF: 48634.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1240.337 $\pm$ 0.337  $\chi^2$ /NDF: 70205.5/16

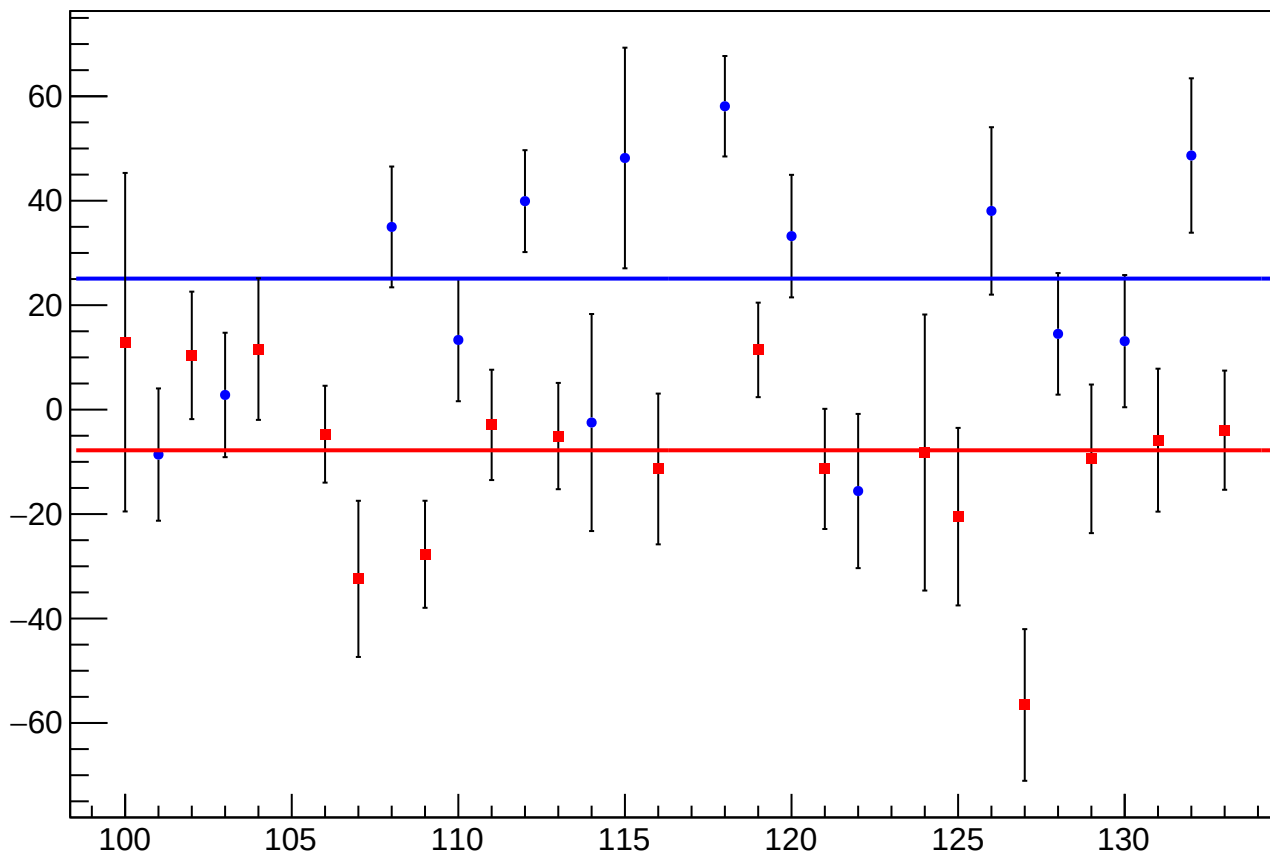
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1254.485 $\pm$ 0.249  $\chi^2$ /NDF: 122703.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l09X\_mean vs Slug



Right In: 25.088+/-3.374  $\chi^2$ /NDF: 42.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -7.789+/-3.022  $\chi^2$ /NDF: 28.2/16

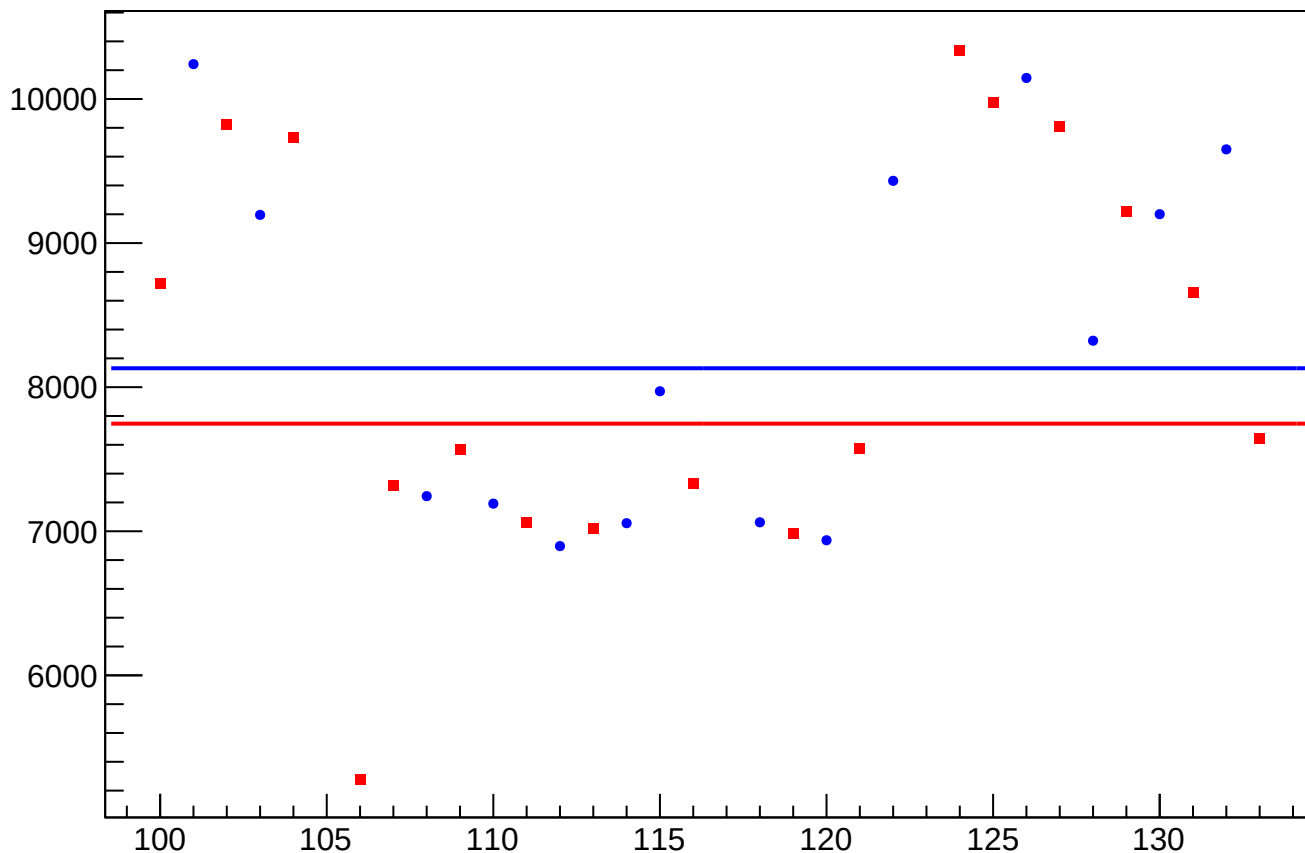
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 6.845+/-2.251  $\chi^2$ /NDF: 123.2/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l09X\_rms vs Slug



Right In: 8131.212 $\pm$ 2.386  $\chi^2$ /NDF: 262080.5/13

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

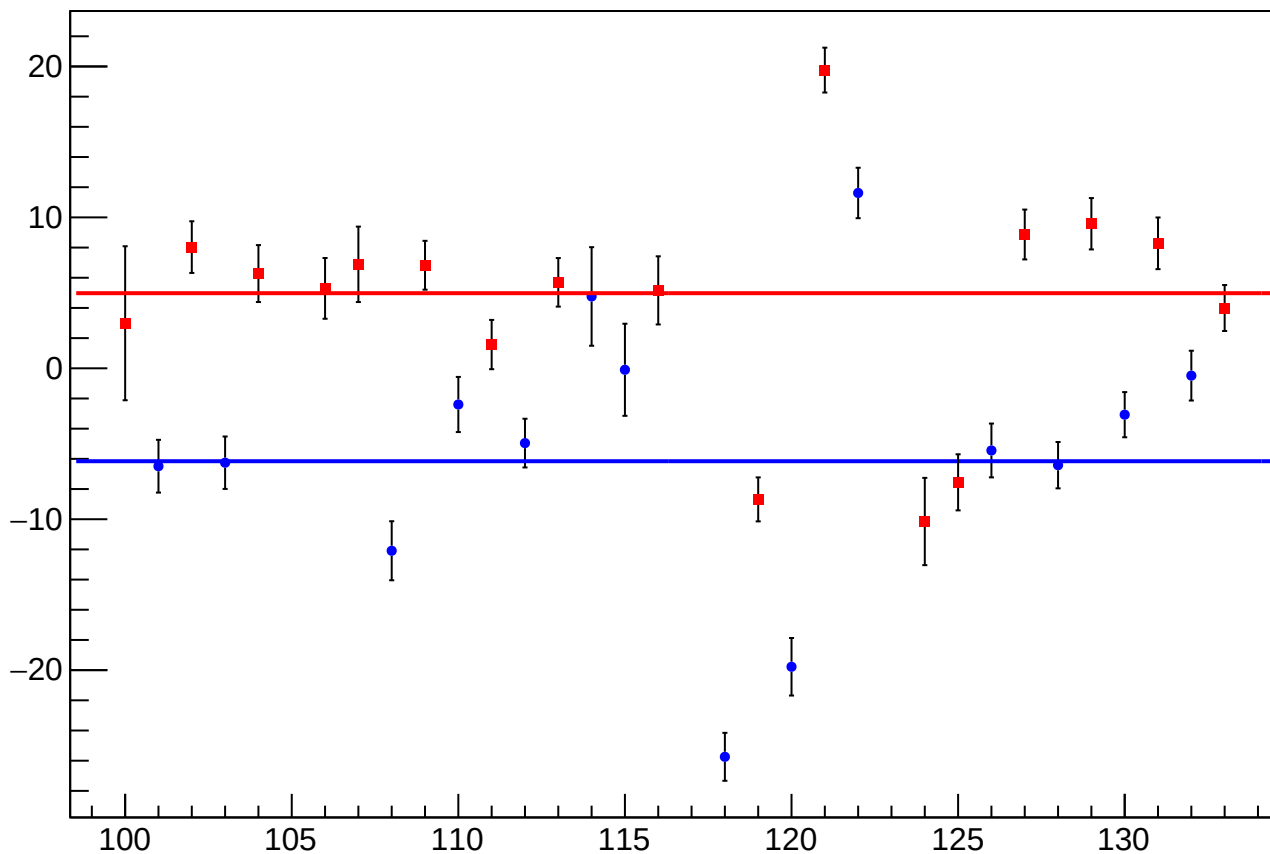
Right Out: 7746.767 $\pm$ 2.137  $\chi^2$ /NDF: 406552.3/16

All: 7917.884 $\pm$ 1.592  $\chi^2$ /NDF: 683040.8/30

- 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\_bpm0l09Y\_mean vs Slug



Right In: -6.156+/-0.477  $\chi^2/\text{NDF}$ : 361.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.977+/-0.438  $\chi^2/\text{NDF}$ : 287.0/16

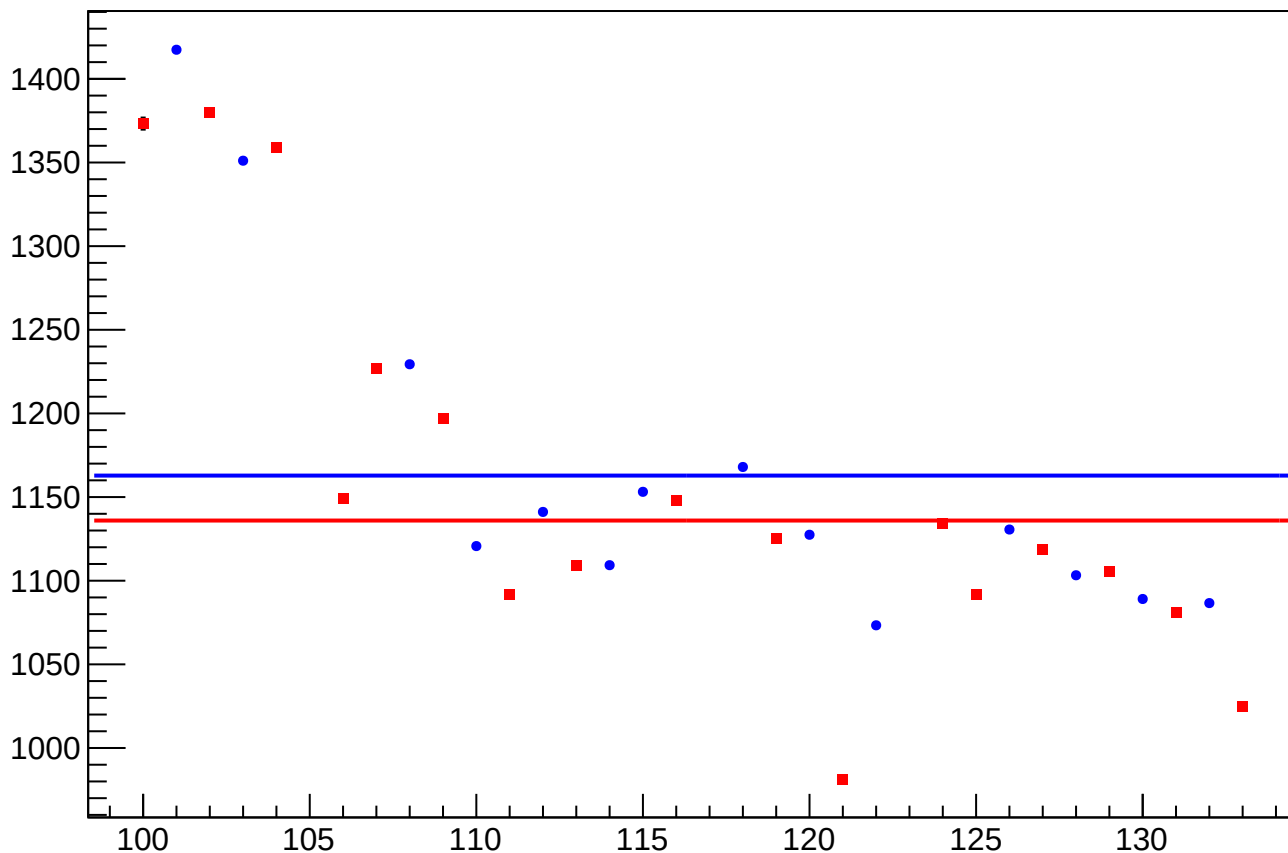
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.104+/-0.323  $\chi^2/\text{NDF}$ : 943.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l09Y\_rms vs Slug



Right In: 1162.843 $\pm$ 0.338  $\chi^2$ /NDF: 89436.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1135.969 $\pm$ 0.309  $\chi^2$ /NDF: 116996.3/16

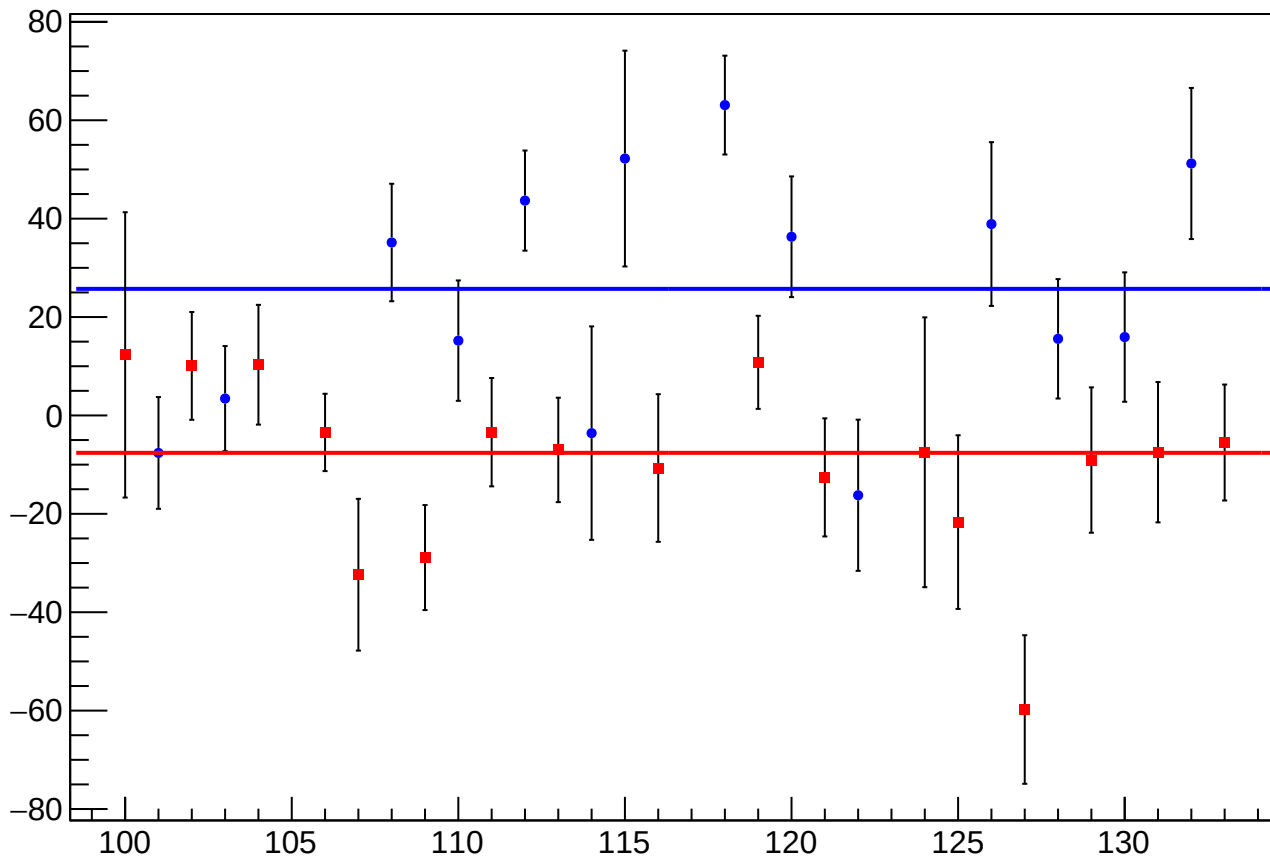
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1148.234 $\pm$ 0.228  $\chi^2$ /NDF: 209876.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l10X\_mean vs Slug



Right In: 25.731 $\pm$ 3.424  $\chi^2$ /NDF: 47.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -7.599 $\pm$ 3.005  $\chi^2$ /NDF: 28.8/16

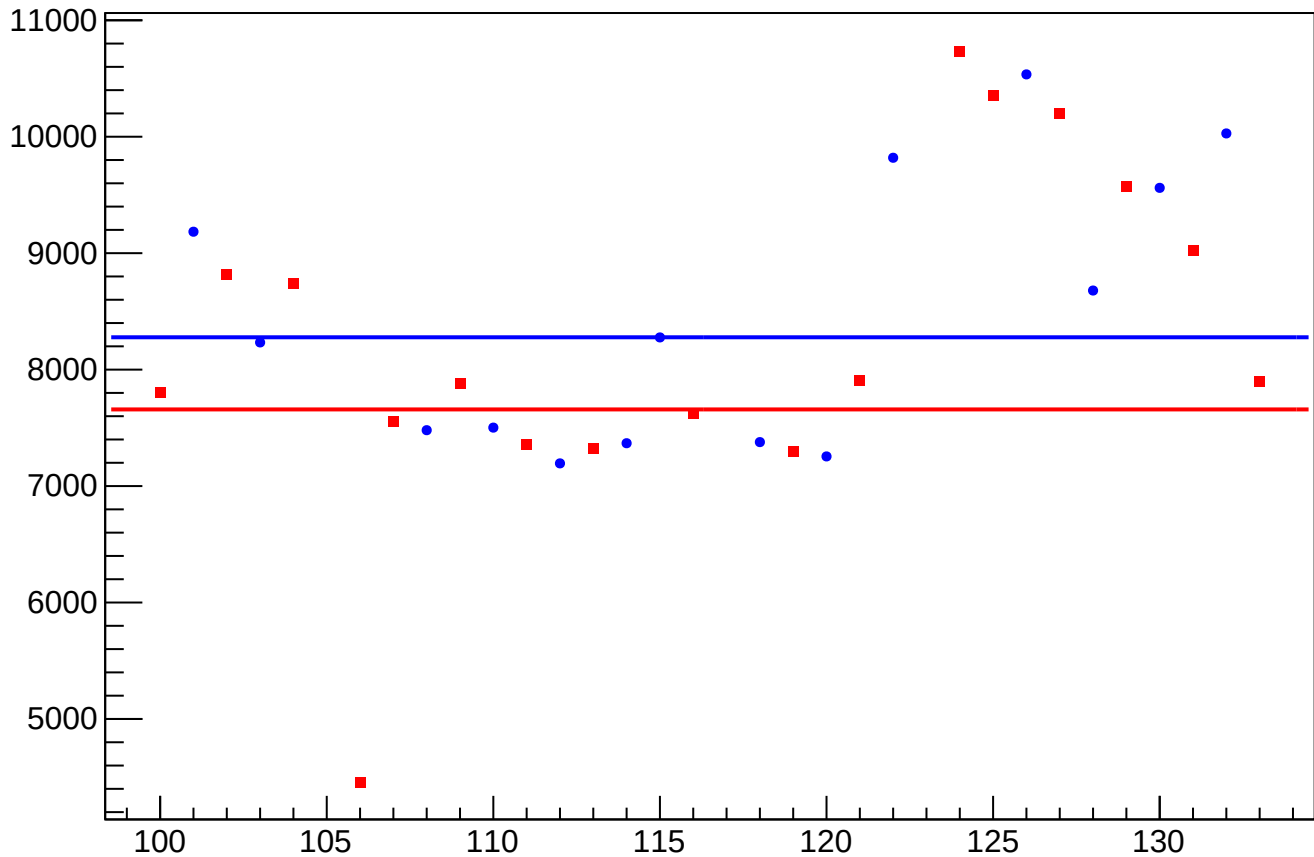
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.902 $\pm$ 2.259  $\chi^2$ /NDF: 129.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0l10X\_rms vs Slug



Right In: 8277.744+/-2.421  $\chi^2$ /NDF: 190000.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7658.204+/-2.125  $\chi^2$ /NDF: 559493.7/16

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

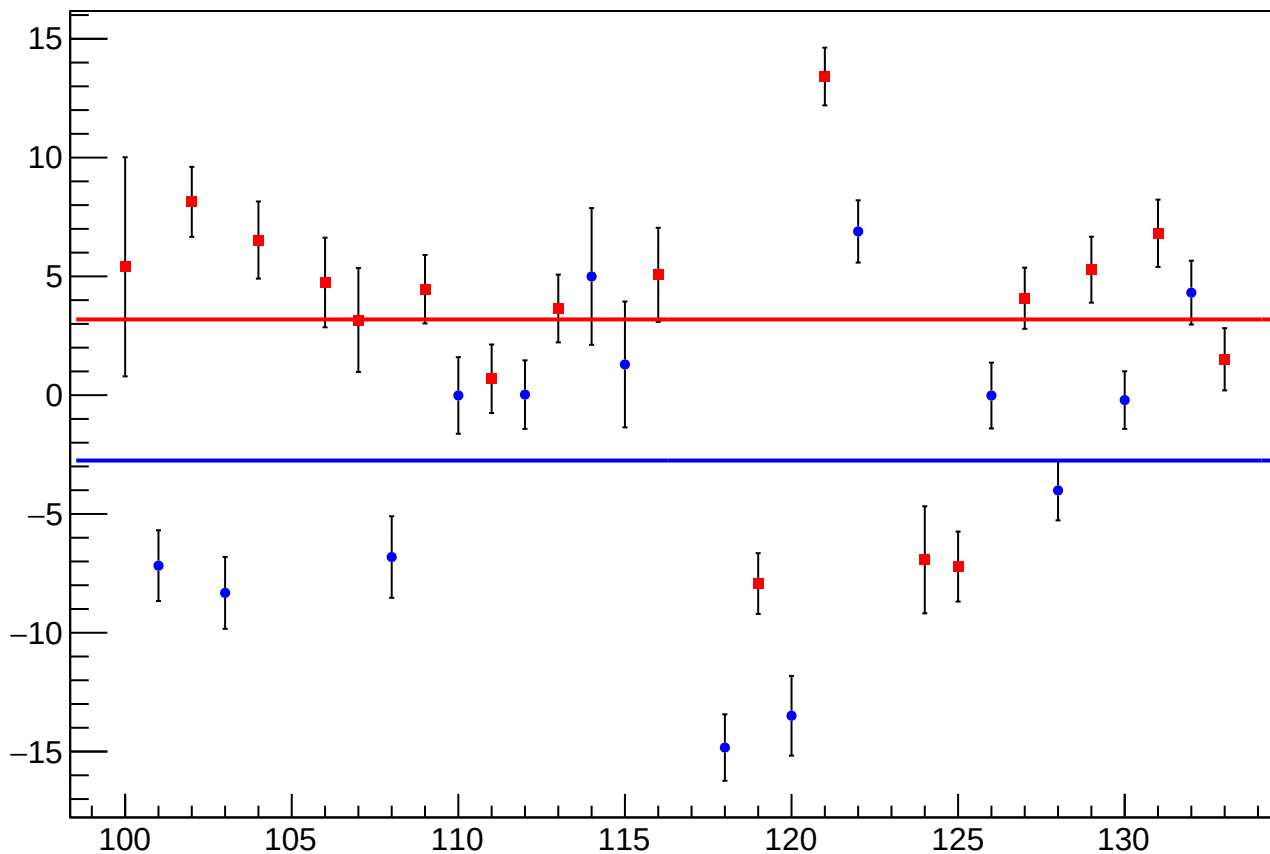
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 7927.749+/-1.597  $\chi^2$ /NDF: 786481.5/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm0l10Y\_mean vs Slug



Right In: -2.751+/-0.402  $\chi^2/\text{NDF}$ : 250.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.188+/-0.372  $\chi^2/\text{NDF}$ : 248.6/16

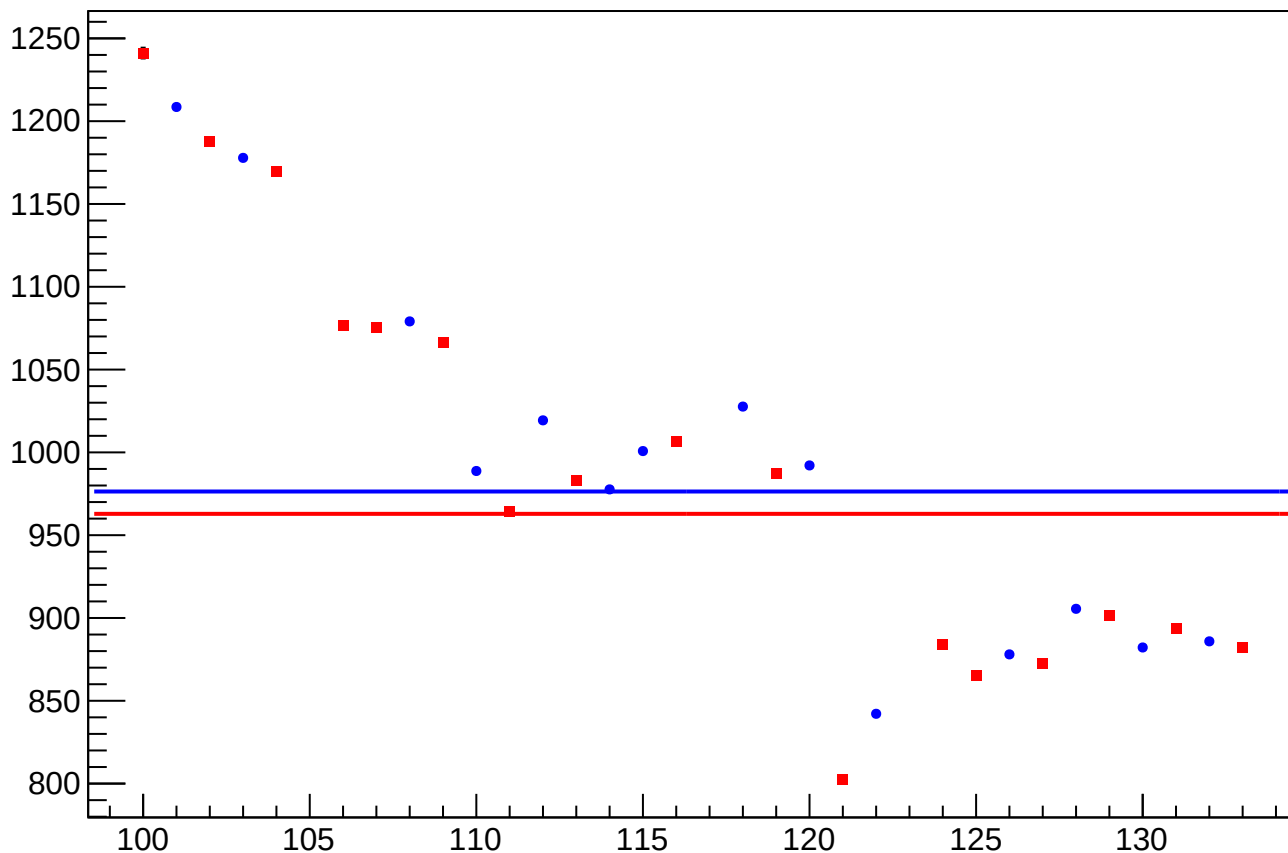
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.451+/-0.273  $\chi^2/\text{NDF}$ : 617.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0l10Y\_rms vs Slug



Right In: 976.375+/-0.284  $\chi^2/\text{NDF}$ : 154567.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 962.882+/-0.263  $\chi^2/\text{NDF}$ : 183333.7/16

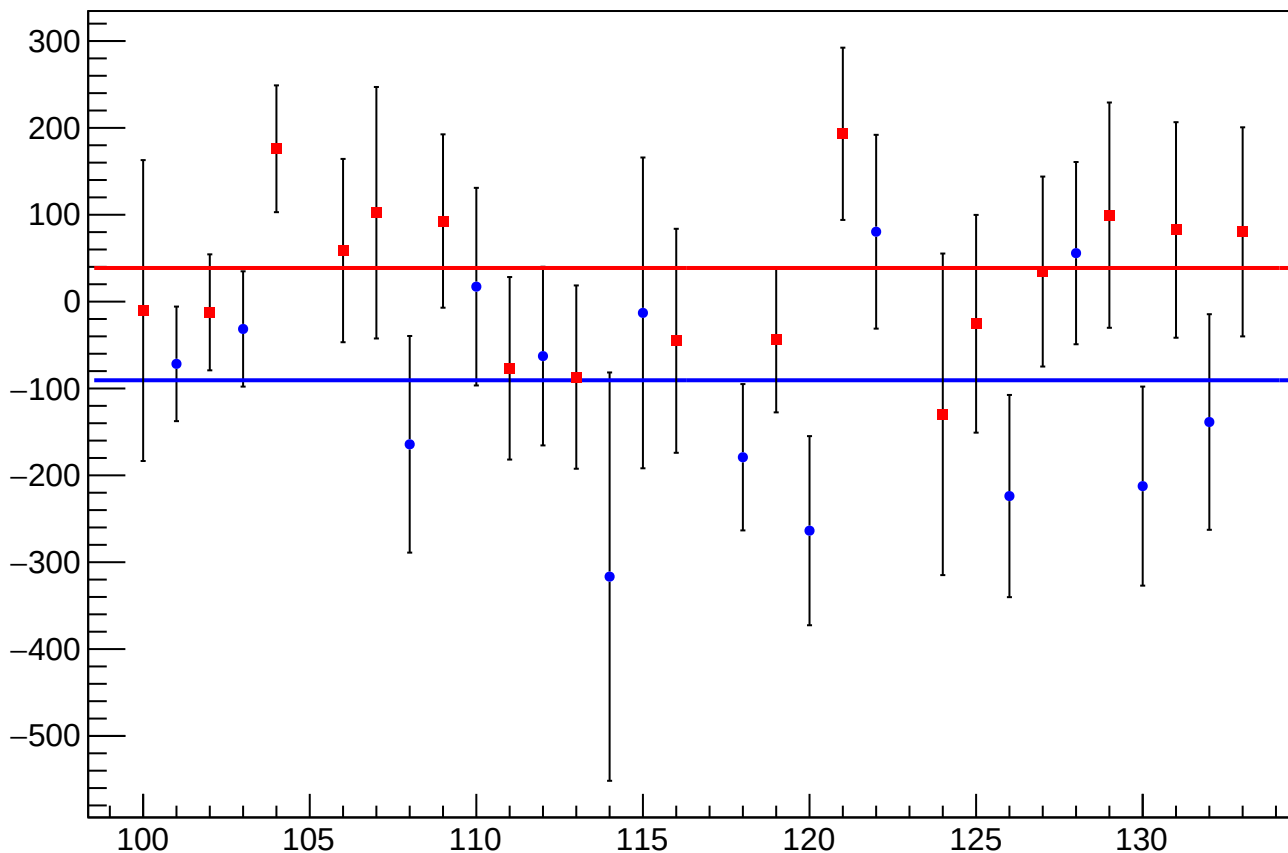
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 969.101+/-0.193  $\chi^2/\text{NDF}$ : 339116.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0r03X\_mean vs Slug



Right In:  $-90.539 \pm 27.177$   $\chi^2/\text{NDF}$ : 13.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $38.720 \pm 25.492$   $\chi^2/\text{NDF}$ : 12.7/16

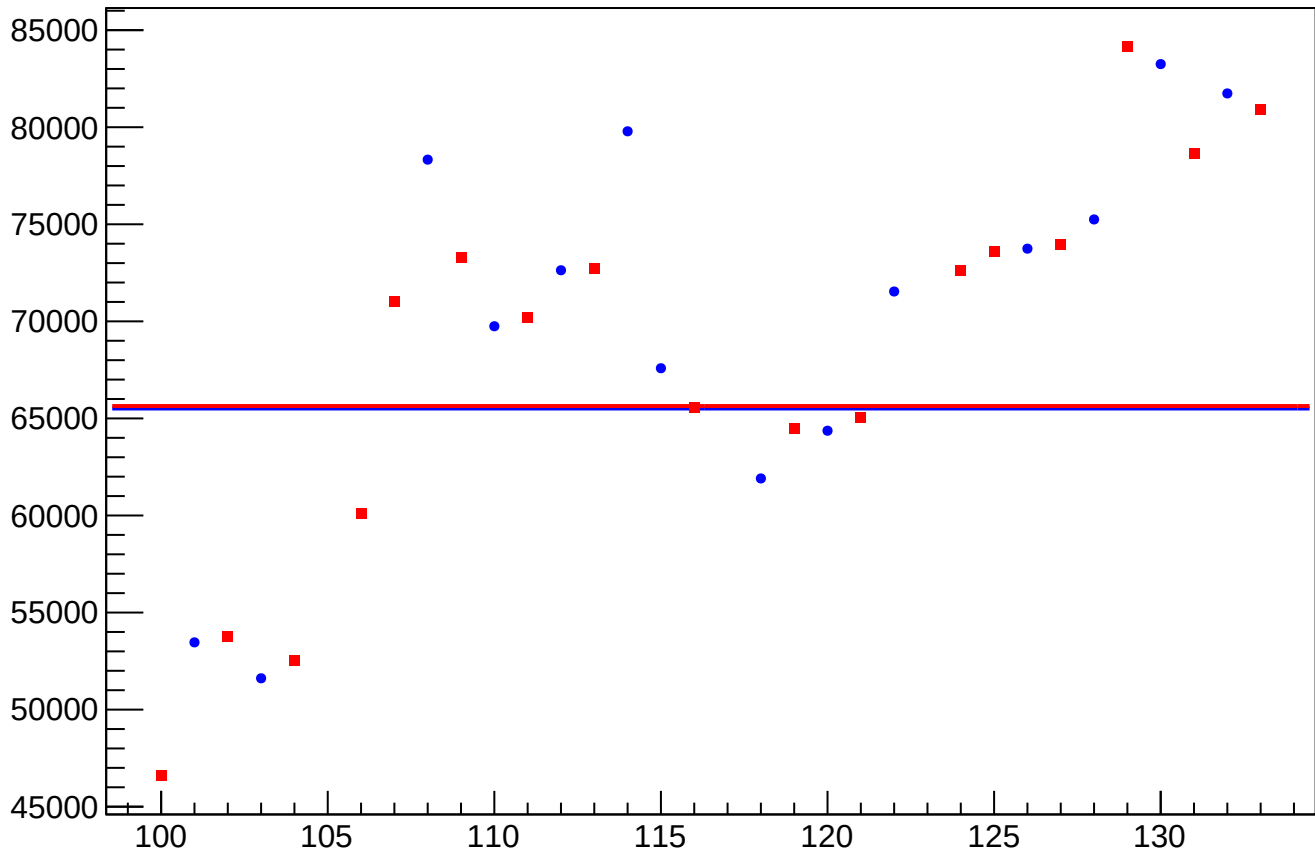
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-21.780 \pm 18.593$   $\chi^2/\text{NDF}$ : 38.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0r03X\_rms vs Slug



Right In: 65511.642+/-19.217  $\chi^2/\text{NDF}$ : 314702.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 65636.755+/-18.026  $\chi^2/\text{NDF}$ : 302666.5/16

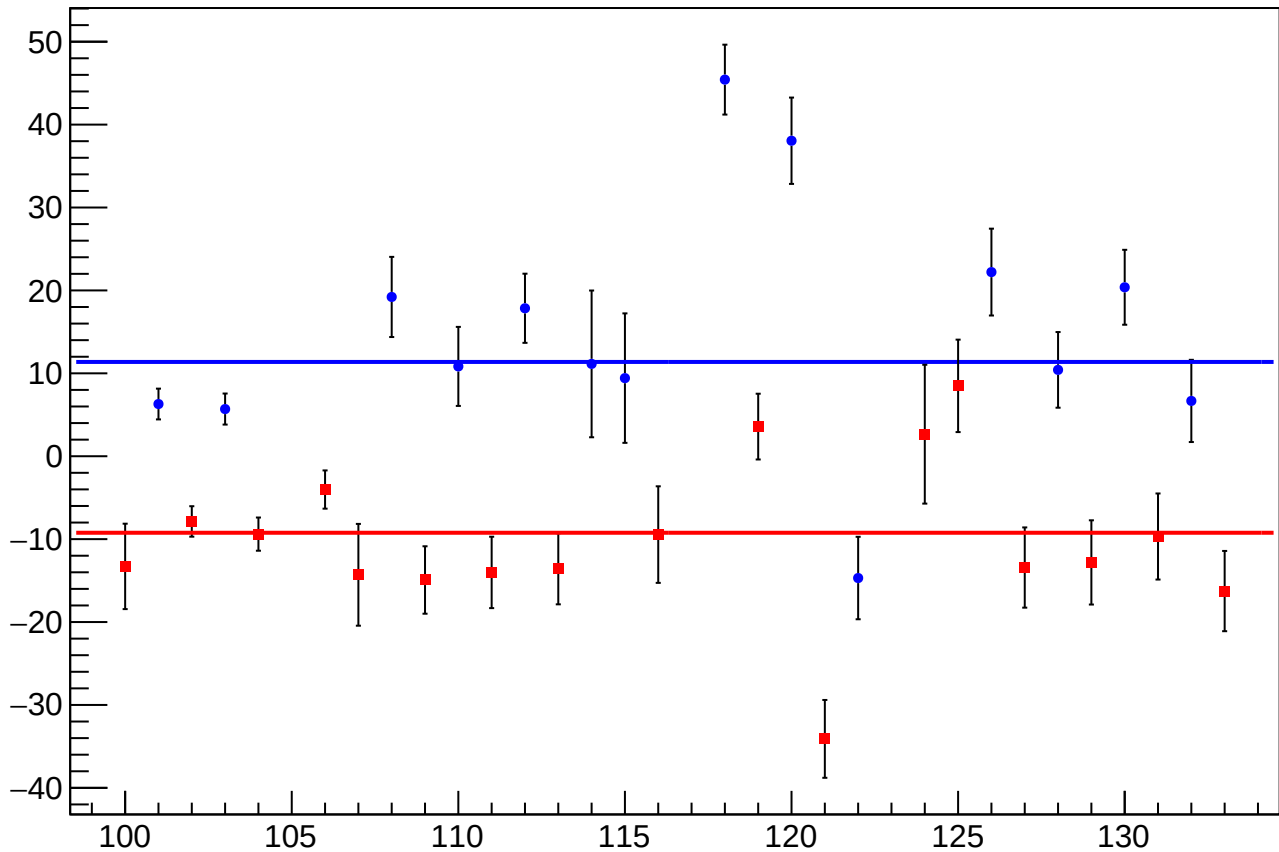
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65578.196+/-13.147  $\chi^2/\text{NDF}$ : 617391.8/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0r03Y\_mean vs Slug



Right In: 11.373+/-0.973  $\chi^2/\text{NDF}$ : 150.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9.230+/-0.873  $\chi^2/\text{NDF}$ : 65.2/16

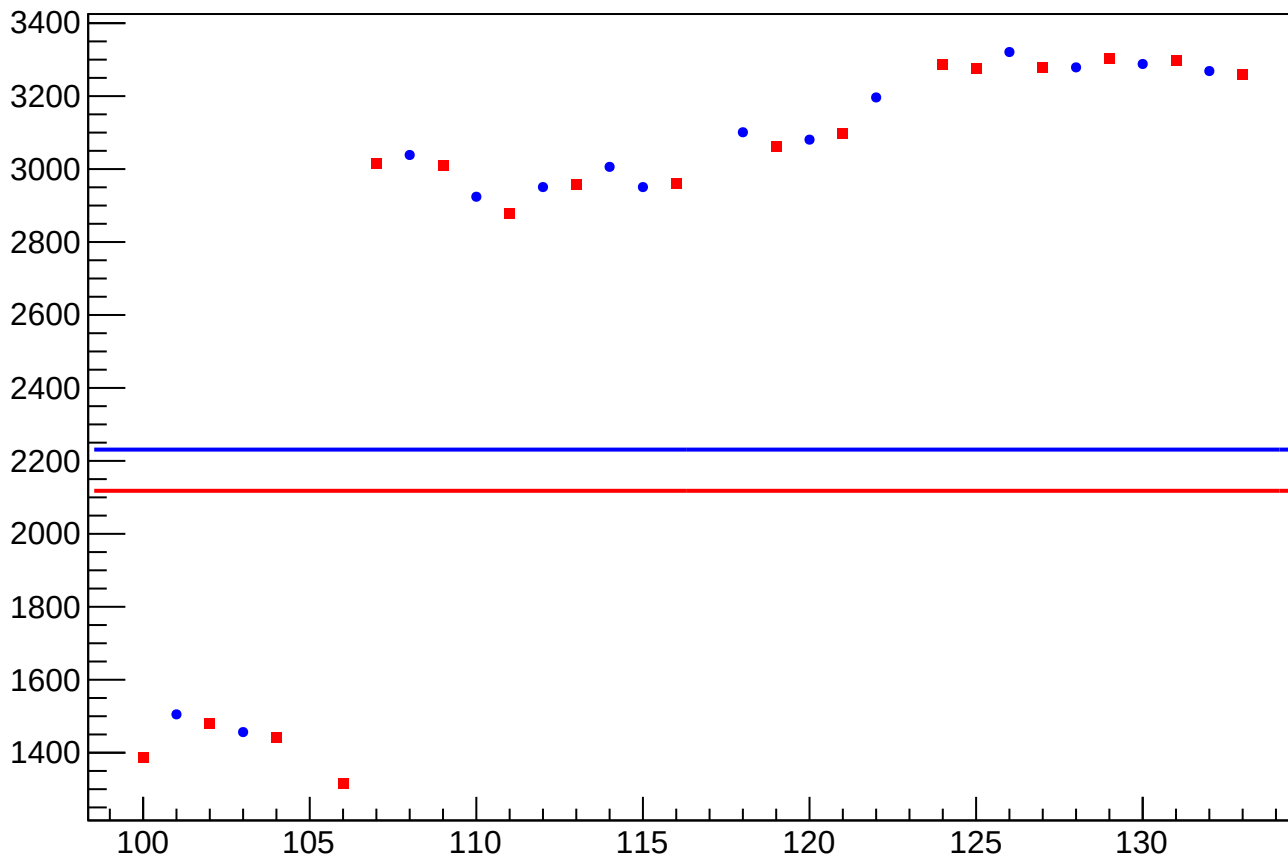
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.043+/-0.650  $\chi^2/\text{NDF}$ : 463.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0r03Y\_rms vs Slug



Right In: 2230.975+/-0.688  $\chi^2/\text{NDF}$ : 1440828.2/13

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

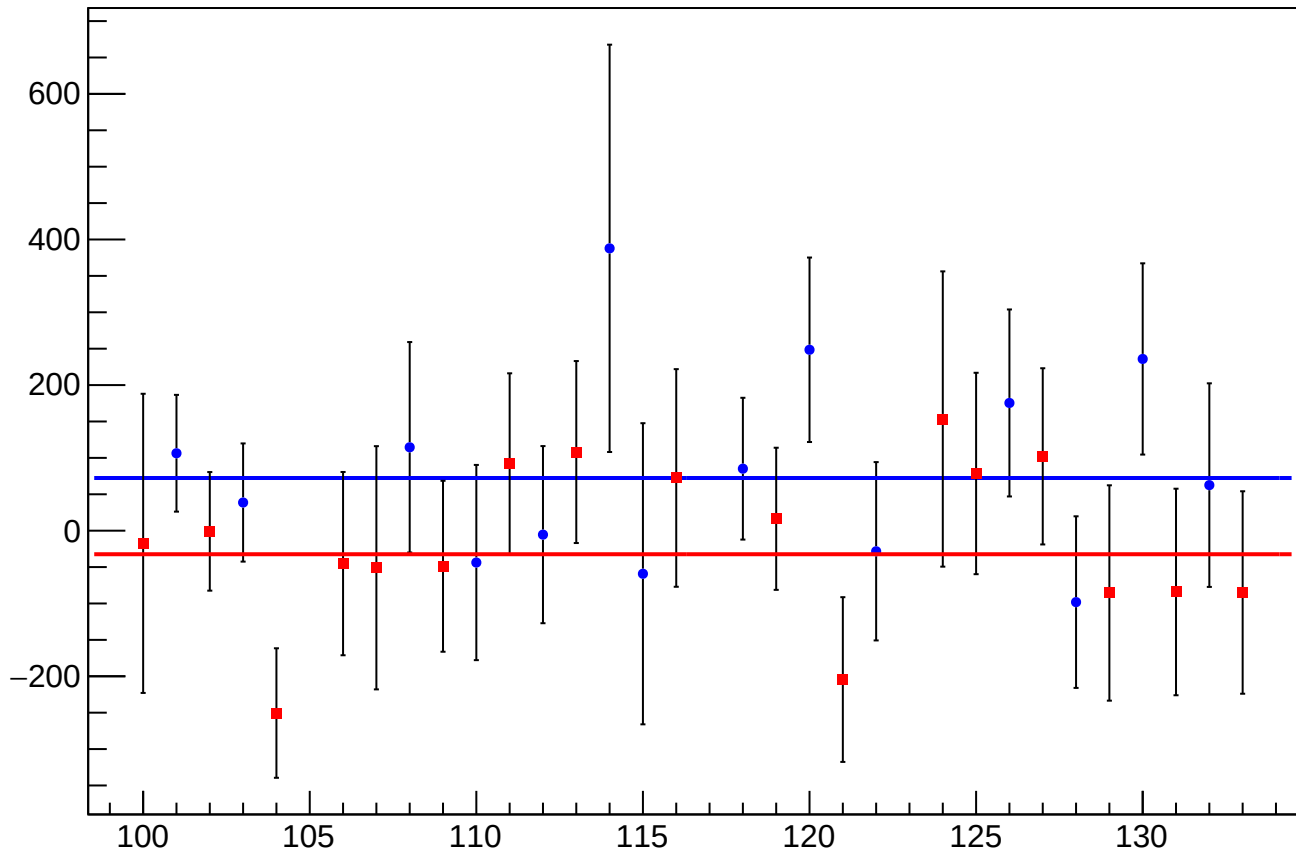
Right Out: 2117.980+/-0.617  $\chi^2/\text{NDF}$ : 1834133.9/16

All: 2168.367+/-0.459  $\chi^2/\text{NDF}$ : 3289911.0/30

- 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: 72.359 $\pm$ 31.774  $\chi^2$ /NDF: 10.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -32.356 $\pm$ 29.870  $\chi^2$ /NDF: 14.7/16

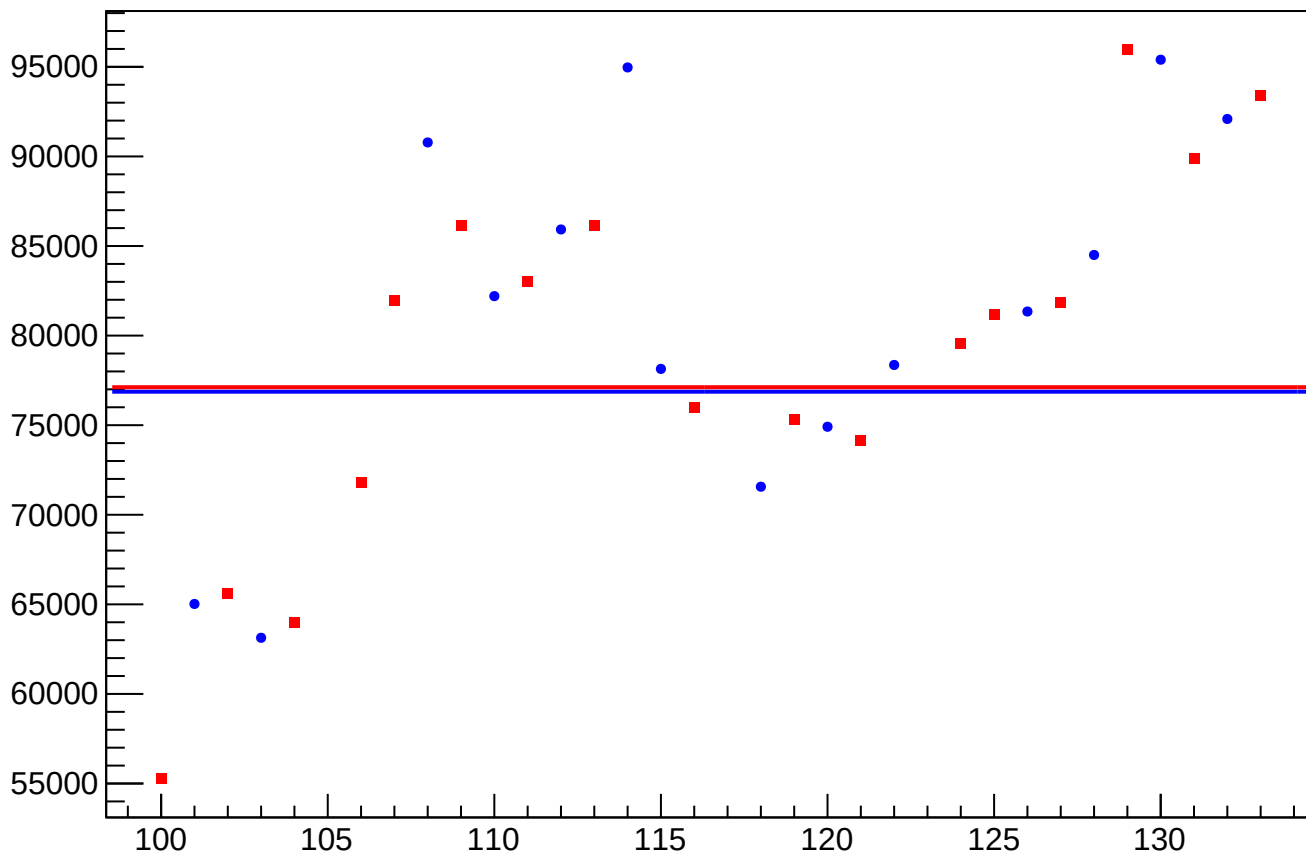
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.769 $\pm$ 21.763  $\chi^2$ /NDF: 30.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0r05X\_rms vs Slug



Right In: 76869.393+/-22.468  $\chi^2/\text{NDF}$ : 223123.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 77119.520+/-21.121  $\chi^2/\text{NDF}$ : 221135.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

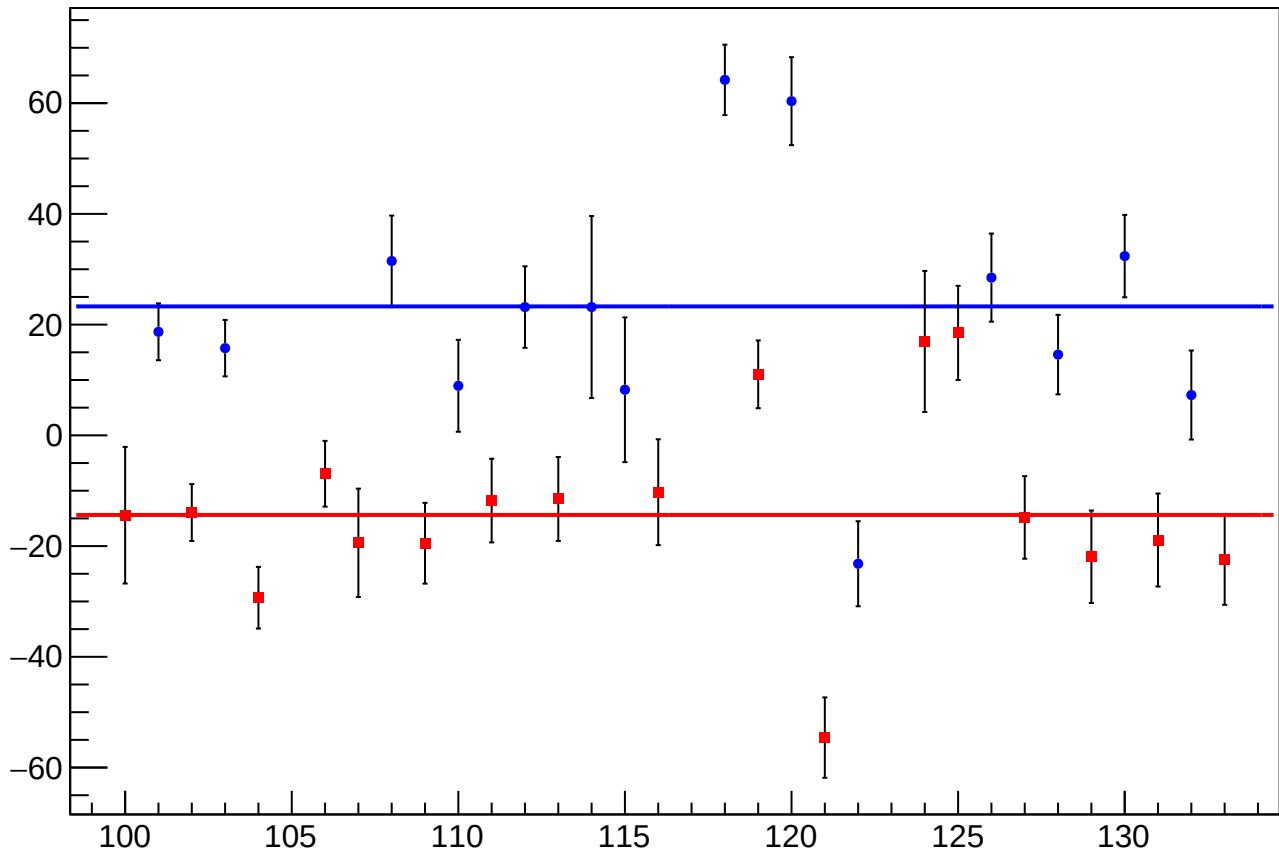
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 77002.177+/-15.389  $\chi^2/\text{NDF}$ : 444324.4/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm0r05Y\_mean vs Slug



Right In: 23.287+/-1.960  $\chi^2/\text{NDF}$ : 115.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14.376+/-1.804  $\chi^2/\text{NDF}$ : 81.0/16

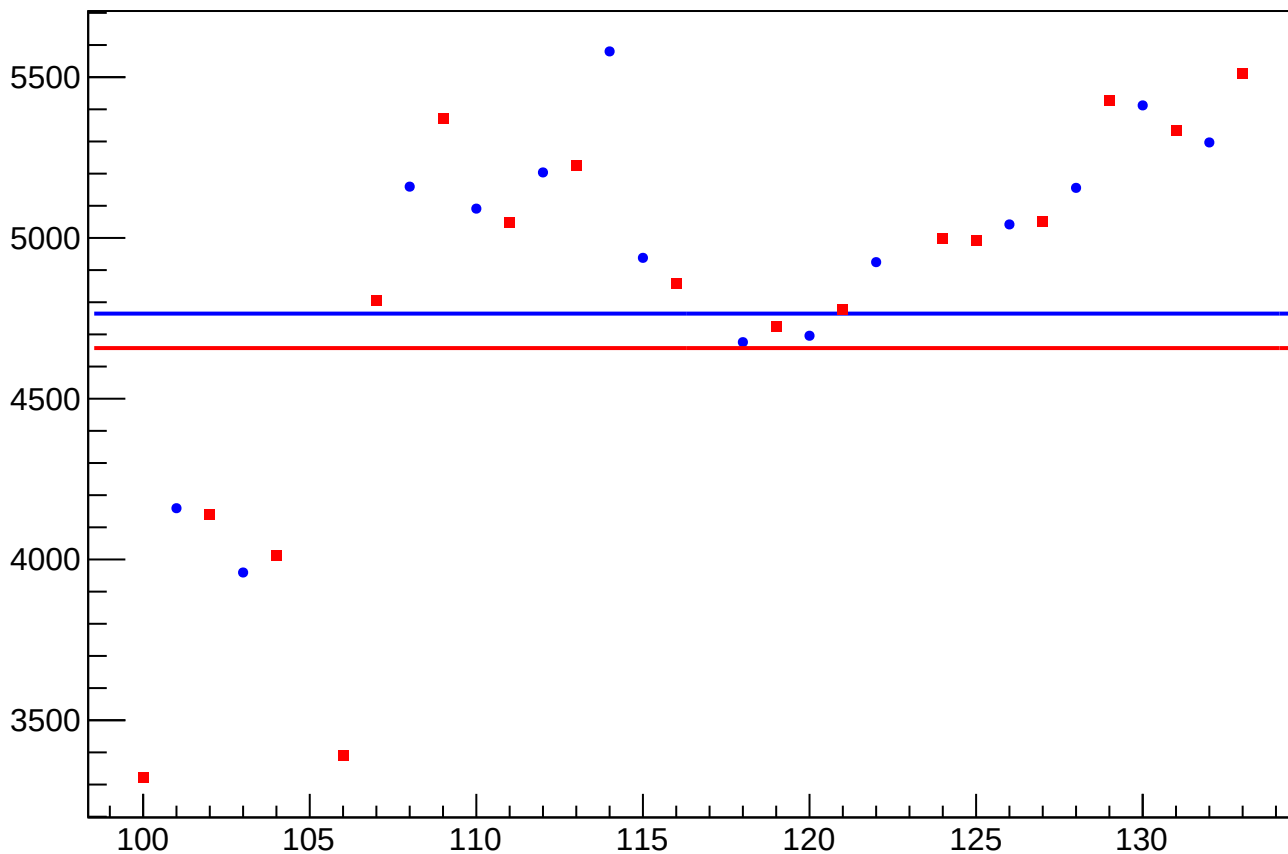
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.898+/-1.328  $\chi^2/\text{NDF}$ : 396.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0r05Y\_rms vs Slug



Right In: 4764.670+/-1.386  $\chi^2/\text{NDF}$ : 131640.2/13

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

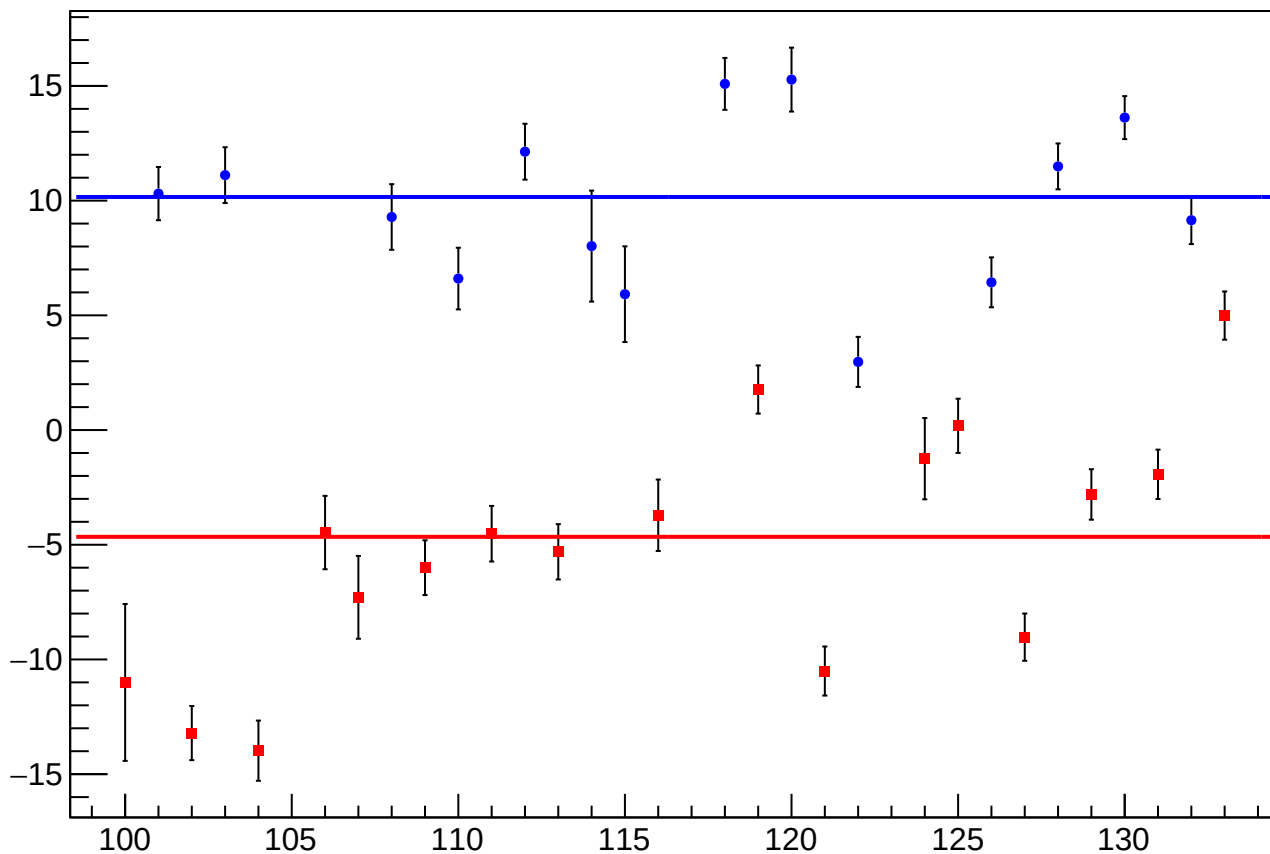
Right Out: 4657.450+/-1.276  $\chi^2/\text{NDF}$ : 261714.9/16

All: 4706.625+/-0.939  $\chi^2/\text{NDF}$ : 396593.8/30

- 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\_bpm2i01X\_mean vs Slug



Right In: 10.159+/-0.323  $\chi^2/\text{NDF}$ : 119.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.655+/-0.303  $\chi^2/\text{NDF}$ : 309.8/16

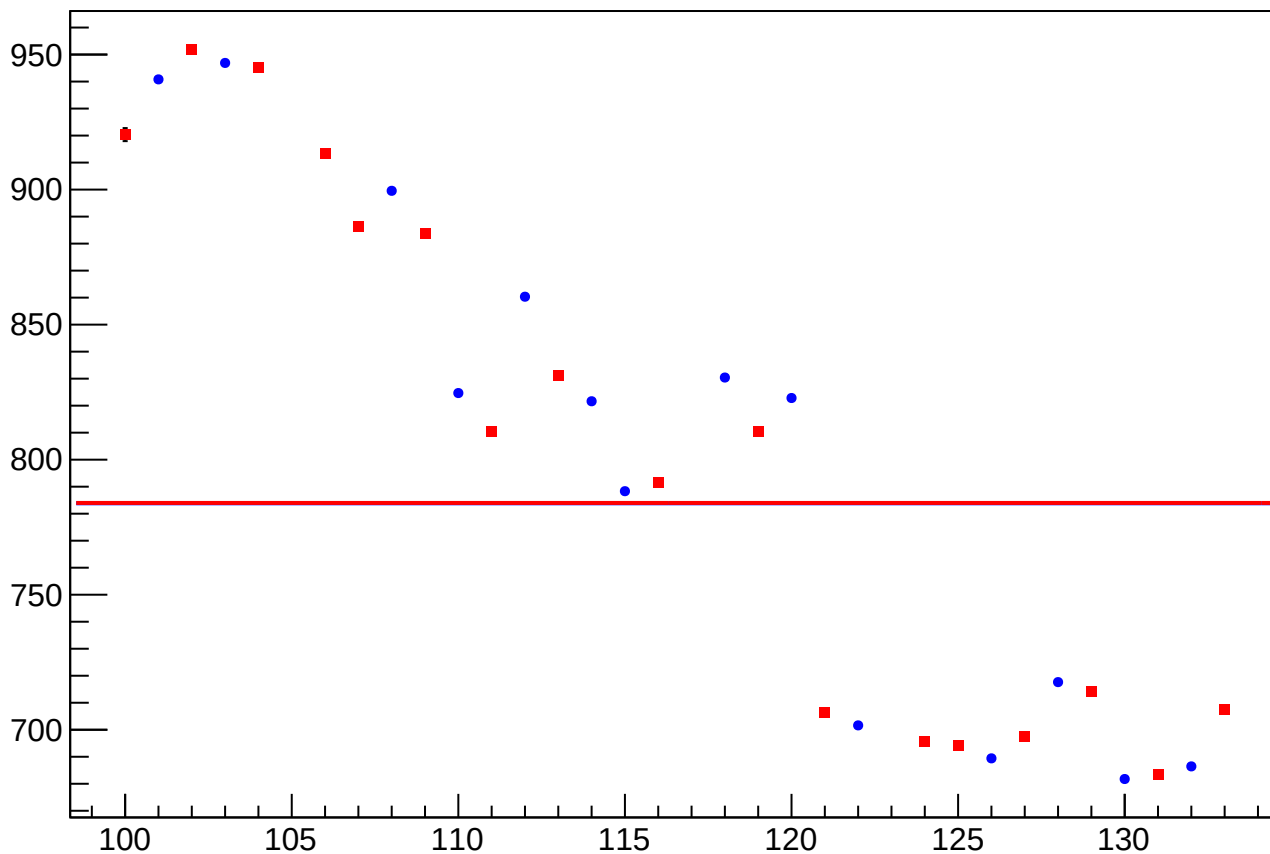
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.269+/-0.221  $\chi^2/\text{NDF}$ : 1549.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm2i01X\_rms vs Slug



Right In:  $783.852 \pm 0.228$   $\chi^2/\text{NDF}$ : 177250.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $783.978 \pm 0.214$   $\chi^2/\text{NDF}$ : 189665.8/16

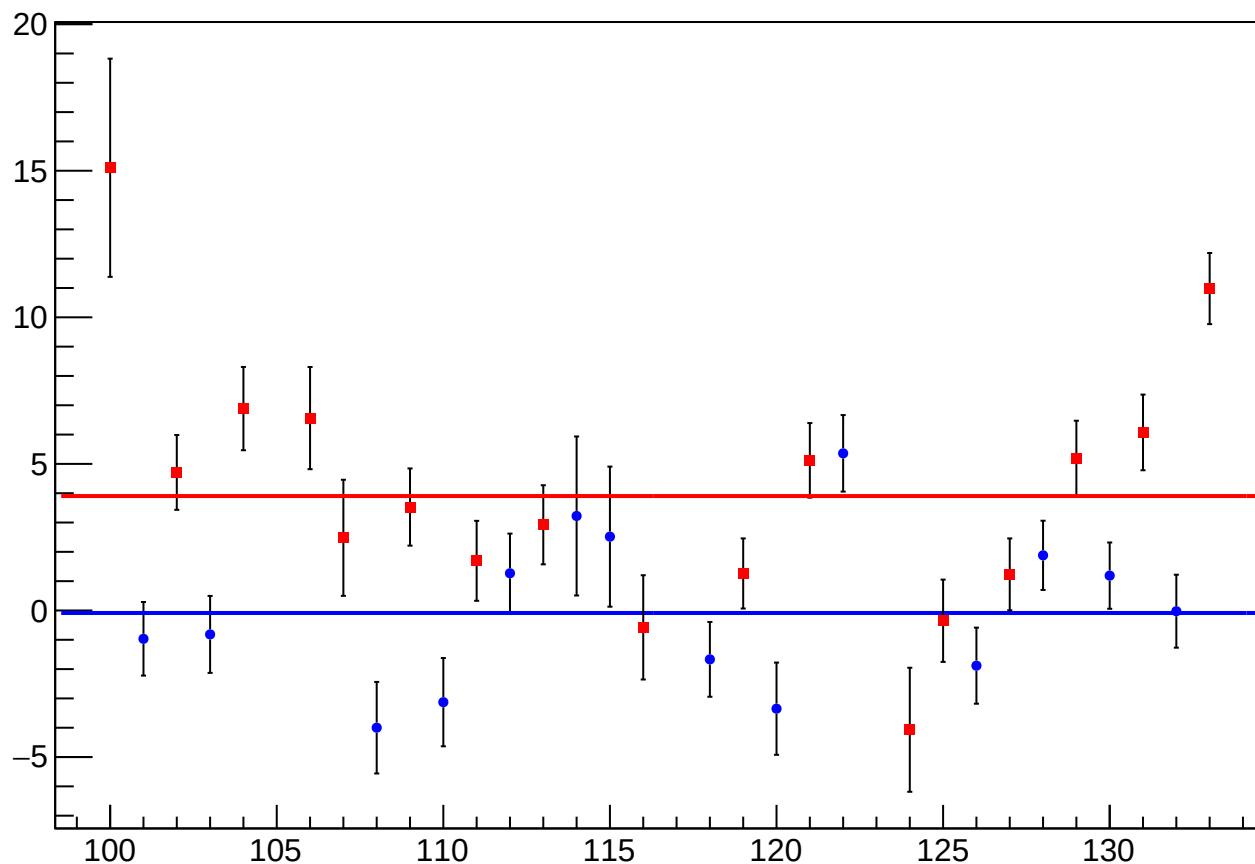
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $783.919 \pm 0.156$   $\chi^2/\text{NDF}$ : 366916.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm2i01Y\_mean vs Slug



Right In:  $-0.086 \pm 0.371$   $\chi^2/\text{NDF}$ : 44.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $3.903 \pm 0.346$   $\chi^2/\text{NDF}$ : 98.1/16

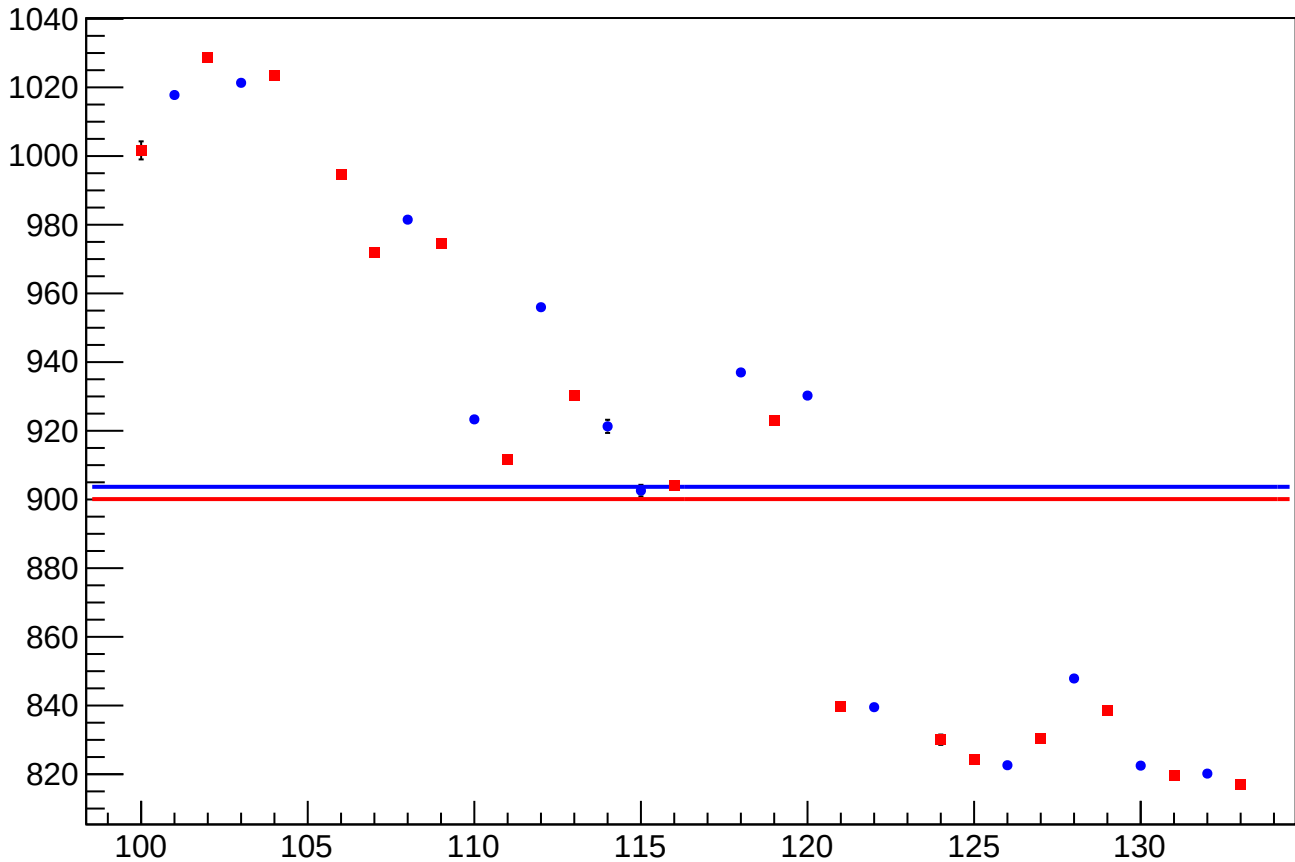
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $2.046 \pm 0.253$   $\chi^2/\text{NDF}$ : 203.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm2i01Y\_rms vs Slug



Right In: 903.686 $\pm$ 0.262  $\chi^2$ /NDF: 79329.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 900.110 $\pm$ 0.245  $\chi^2$ /NDF: 94351.9/16

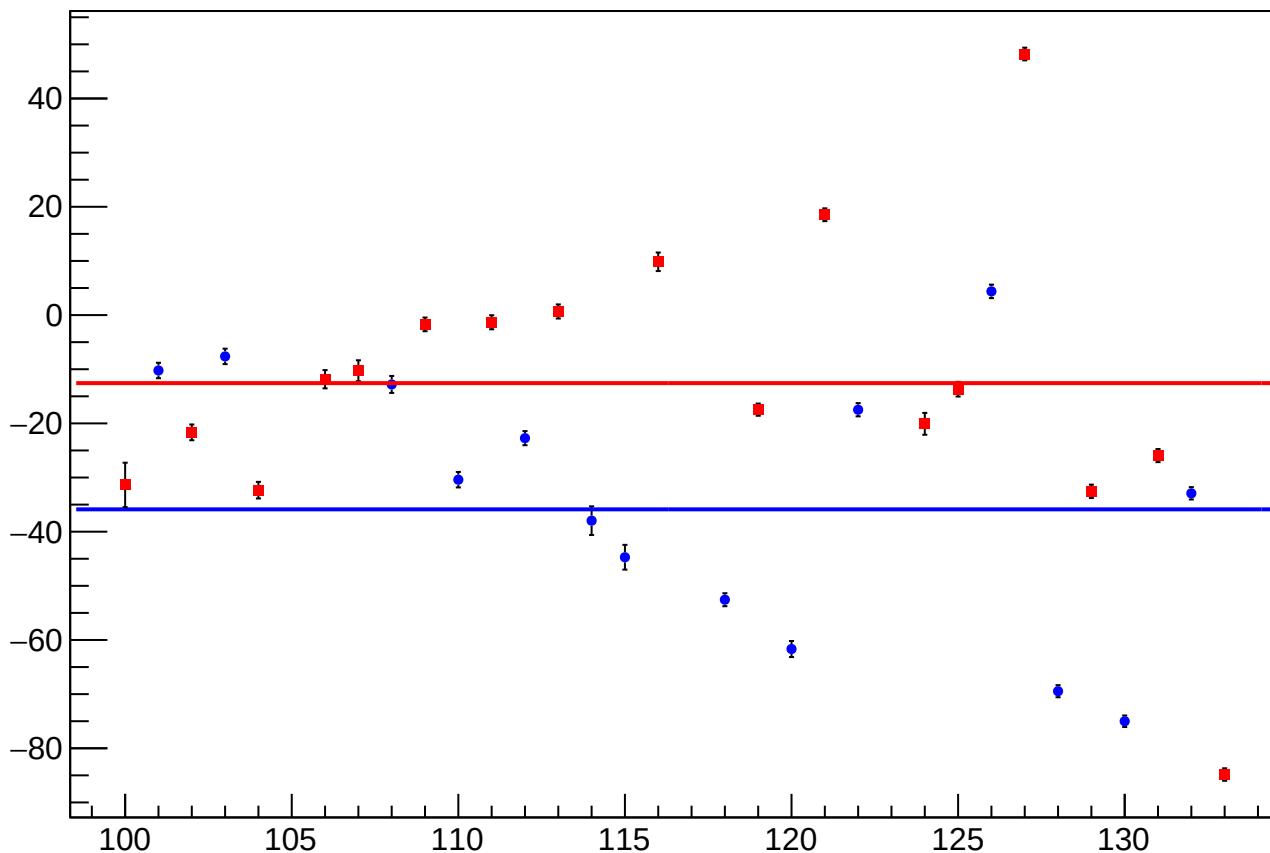
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 901.775 $\pm$ 0.179  $\chi^2$ /NDF: 173781.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm2i02X\_mean vs Slug



Right In:  $-35.874 \pm 0.360$   $\chi^2/\text{NDF}$ : 5095.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-12.564 \pm 0.336$   $\chi^2/\text{NDF}$ : 8384.9/16

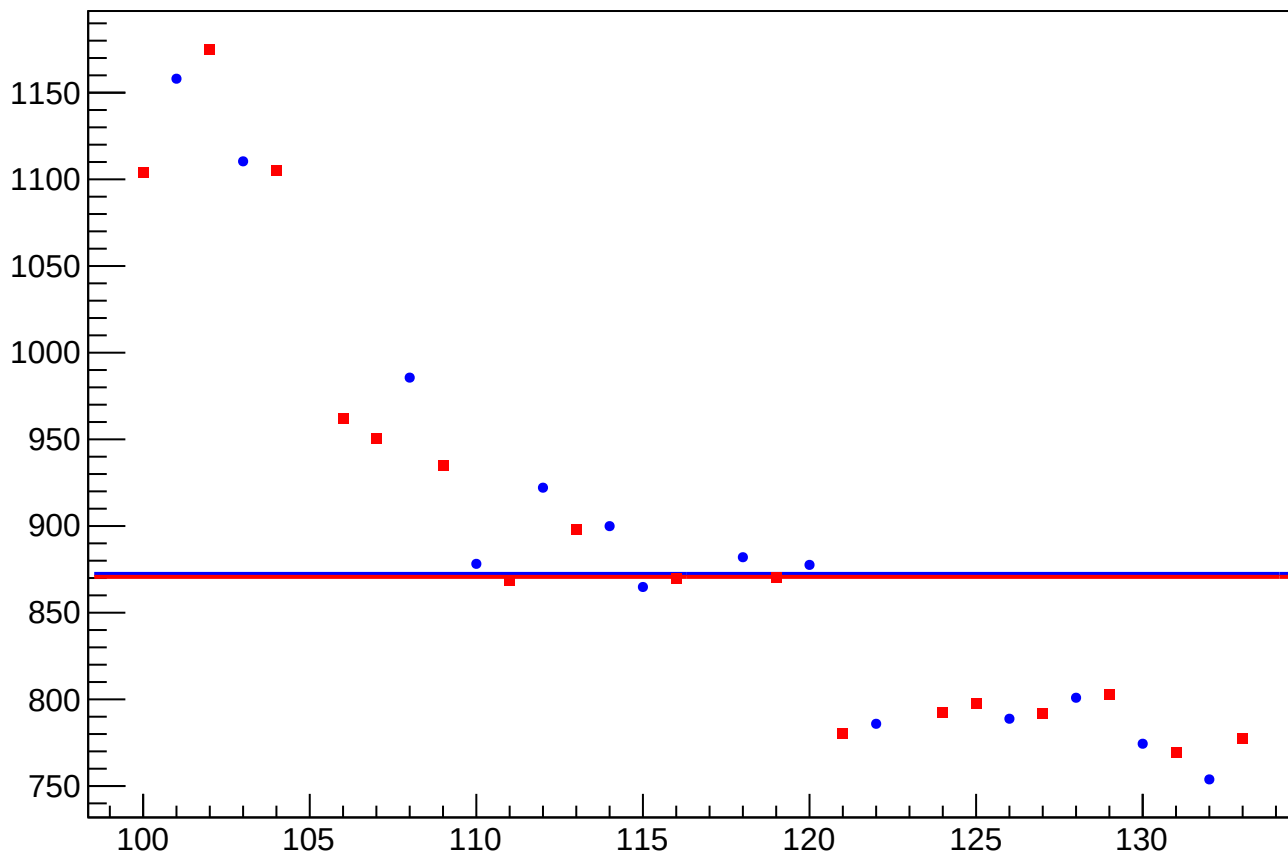
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-23.428 \pm 0.246$   $\chi^2/\text{NDF}$ : 15717.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm2i02X\_rms vs Slug



Right In: 872.380 $\pm$ 0.255  $\chi^2$ /NDF: 215041.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 870.662 $\pm$ 0.238  $\chi^2$ /NDF: 218318.4/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

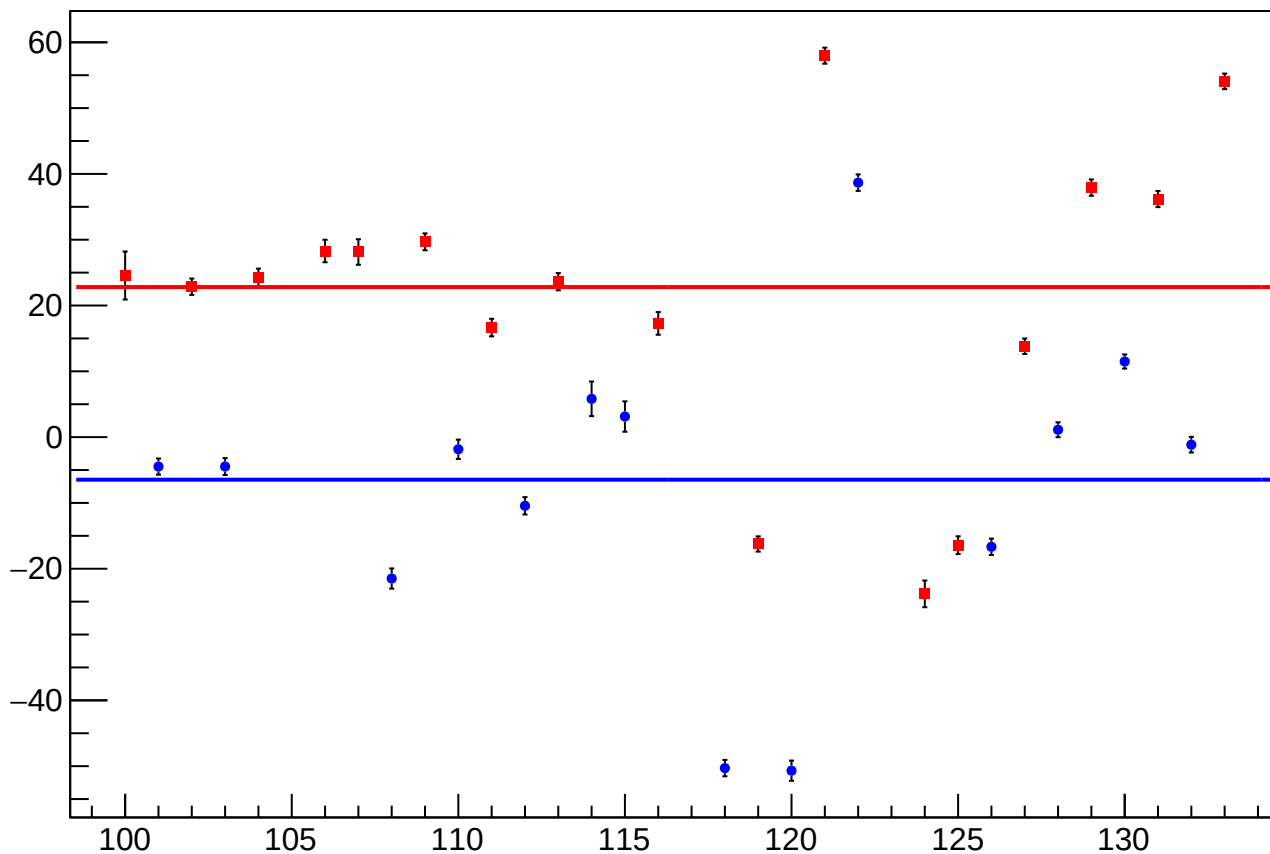
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 871.463 $\pm$ 0.174  $\chi^2$ /NDF: 433383.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm2i02Y\_mean vs Slug



Right In:  $-6.468 \pm 0.359$   $\chi^2/\text{NDF}$ : 3940.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $22.808 \pm 0.336$   $\chi^2/\text{NDF}$ : 4435.5/16

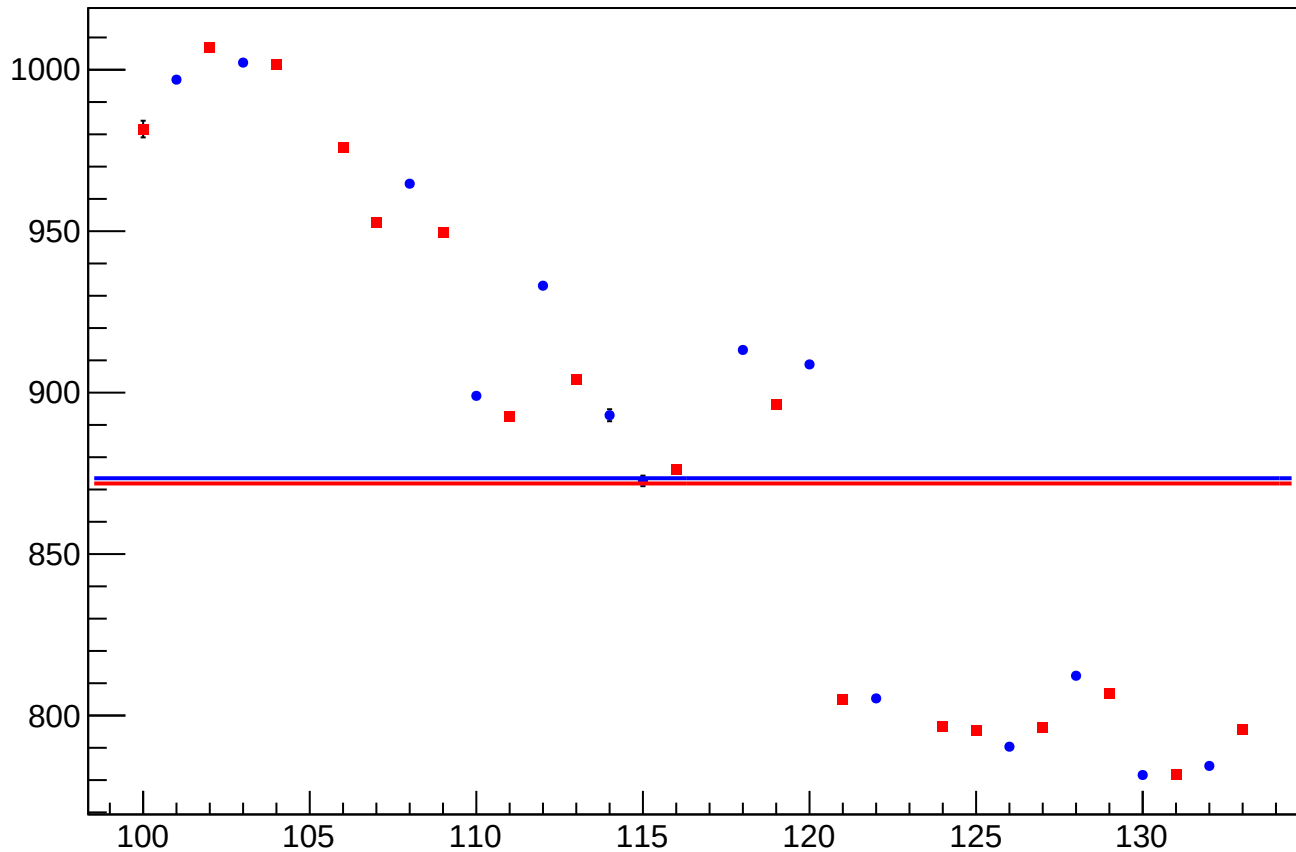
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $9.149 \pm 0.245$   $\chi^2/\text{NDF}$ : 11927.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm2i02Y\_rms vs Slug



Right In: 873.487 $\pm$ 0.254  $\chi^2$ /NDF: 101644.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 871.866 $\pm$ 0.237  $\chi^2$ /NDF: 111479.6/16

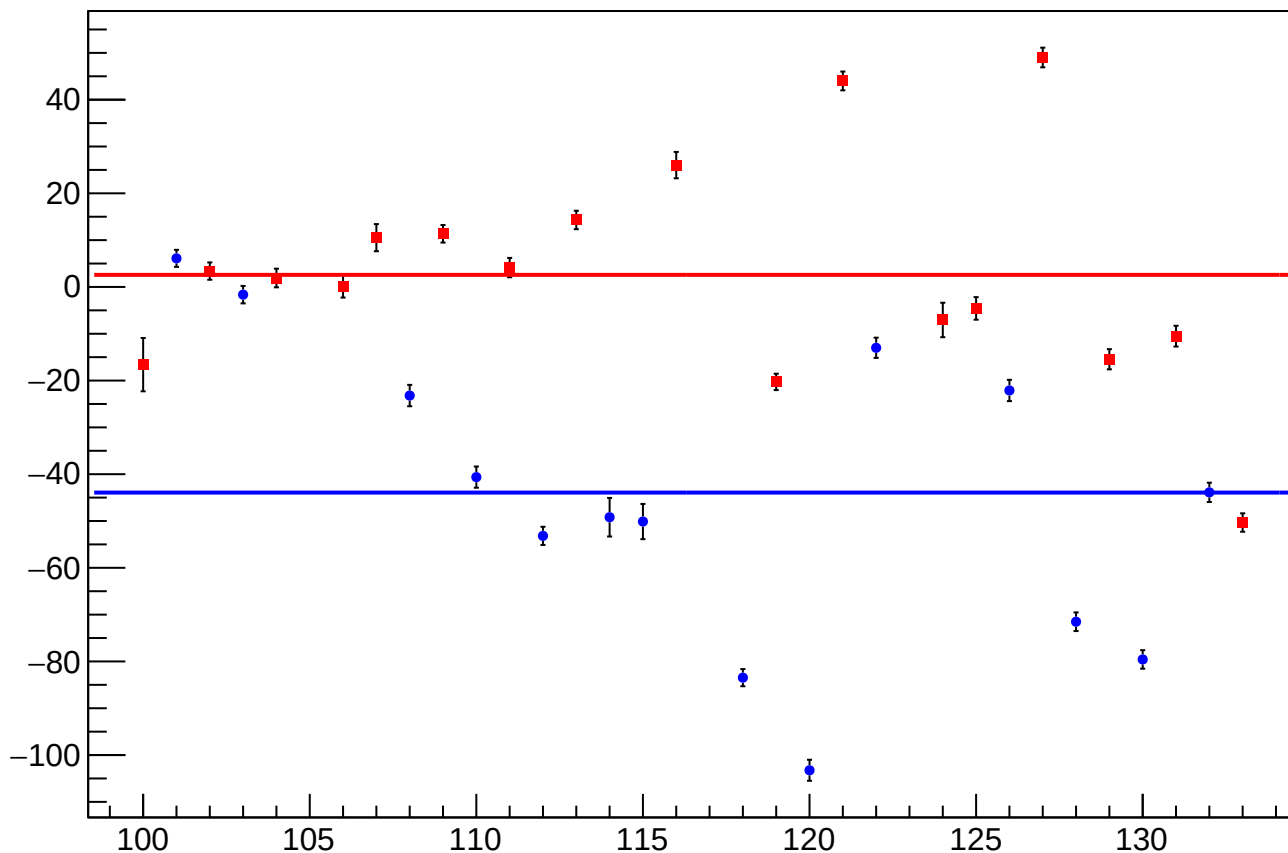
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 872.622 $\pm$ 0.173  $\chi^2$ /NDF: 213146.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i02X\_mean vs Slug



Right In: -43.928 $\pm$ 0.576  $\chi^2$ /NDF: 3357.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.580 $\pm$ 0.535  $\chi^2$ /NDF: 2076.4/16

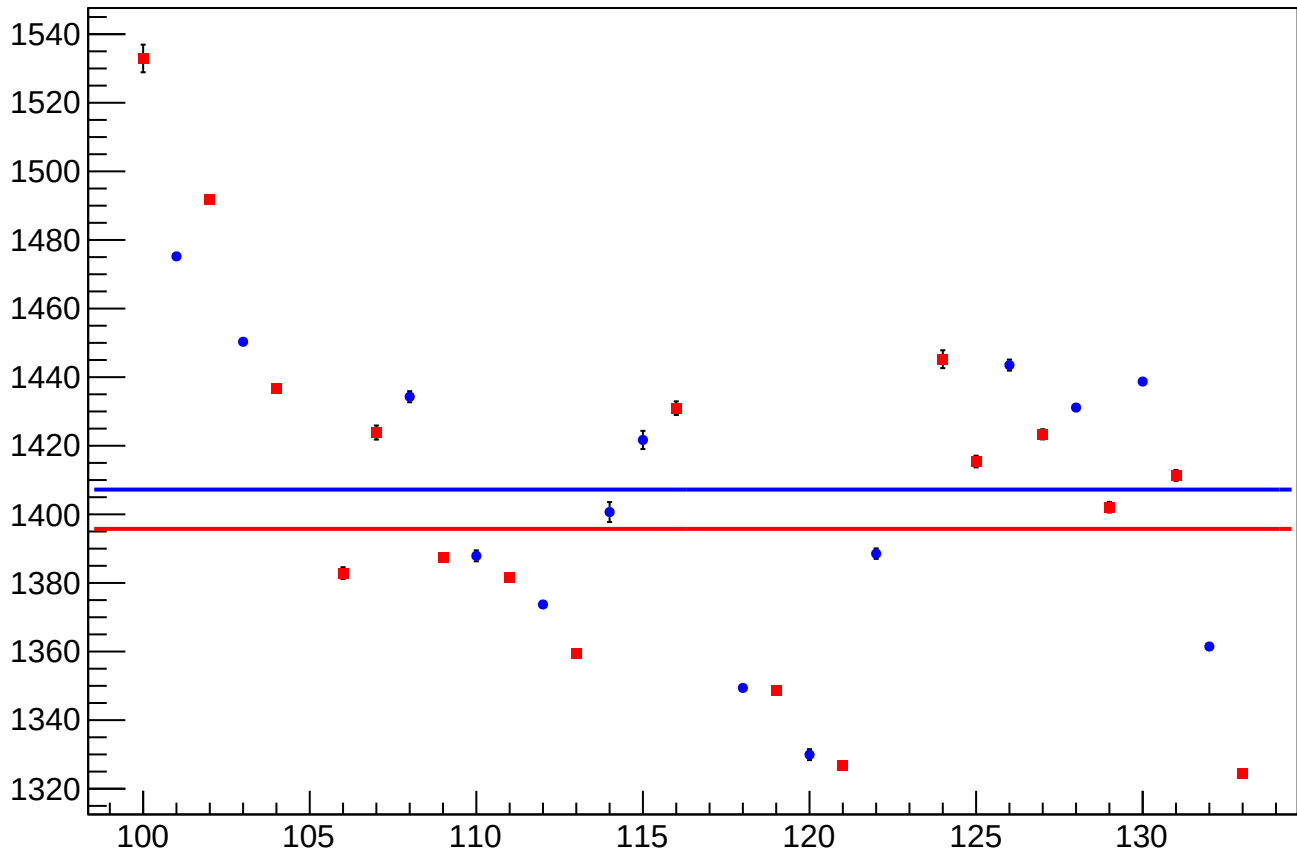
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -18.984 $\pm$ 0.392  $\chi^2$ /NDF: 8933.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i02X\_rms vs Slug



Right In: 1407.222+/-0.407  $\chi^2/\text{NDF}$ : 11707.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1395.767+/-0.379  $\chi^2/\text{NDF}$ : 16161.1/16

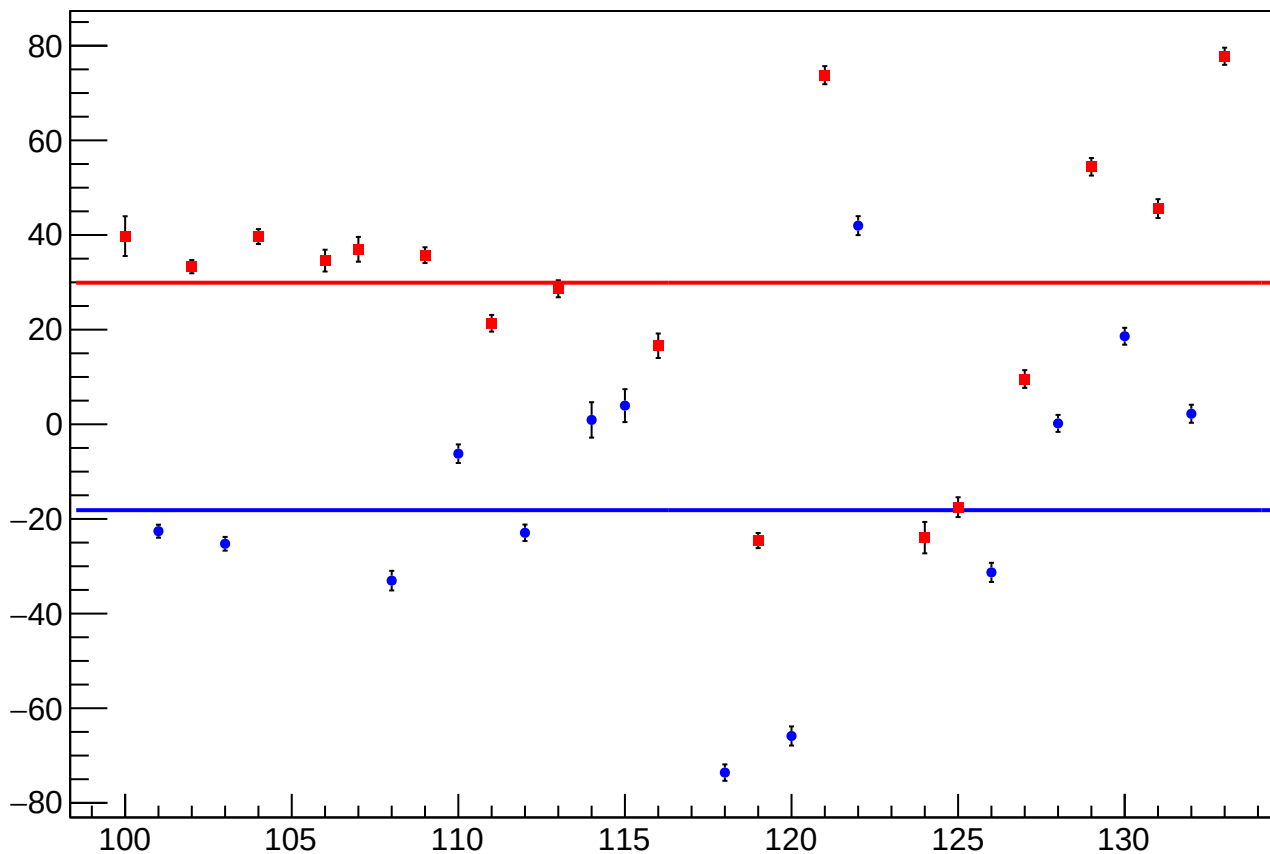
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1401.078+/-0.277  $\chi^2/\text{NDF}$ : 28293.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i02Y\_mean vs Slug



Right In:  $-18.147 \pm 0.503$   $\chi^2/\text{NDF}$ : 3364.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $29.919 \pm 0.468$   $\chi^2/\text{NDF}$ : 3638.6/16

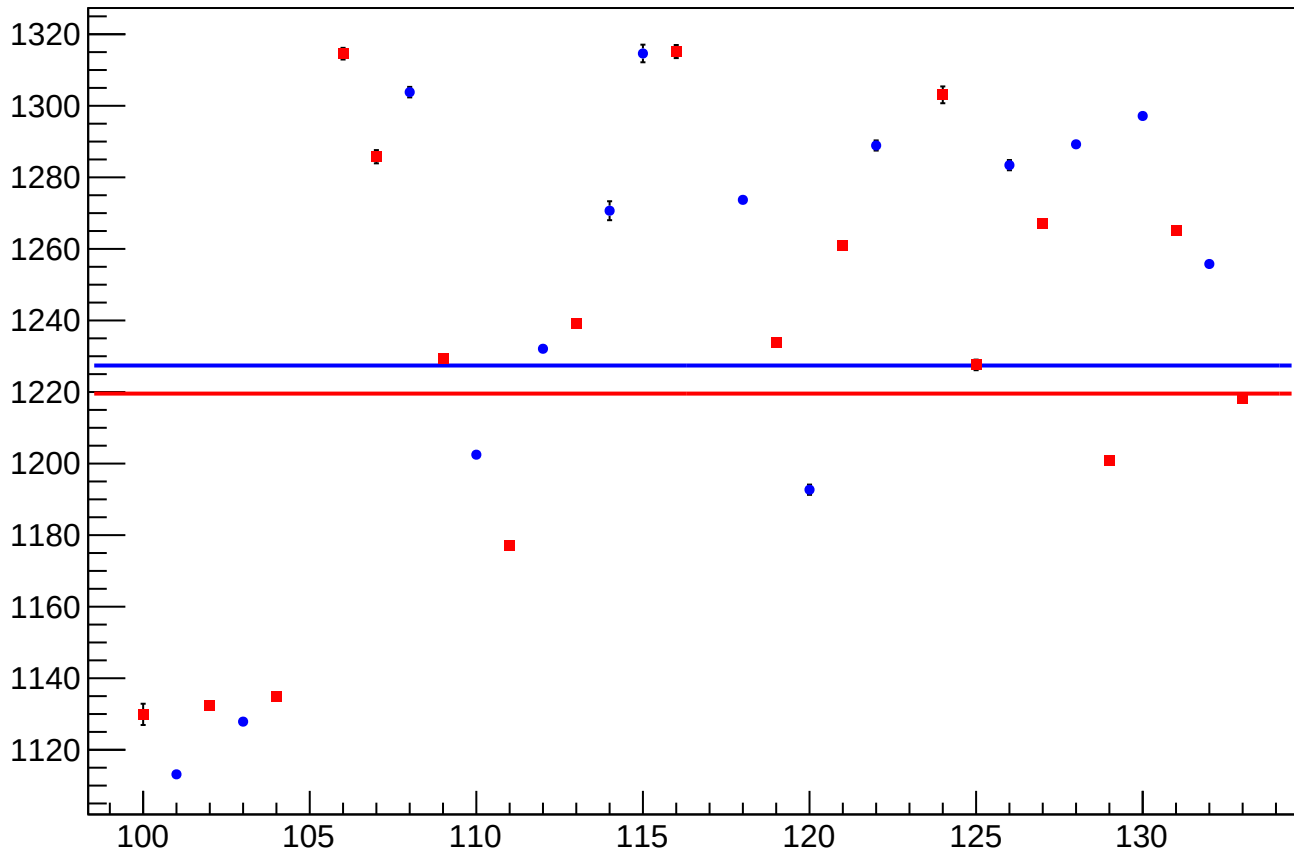
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $7.597 \pm 0.343$   $\chi^2/\text{NDF}$ : 11895.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i02Y\_rms vs Slug



Right In: 1227.408 $\pm$ 0.356  $\chi^2$ /NDF: 39171.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1219.559 $\pm$ 0.331  $\chi^2$ /NDF: 28239.3/16

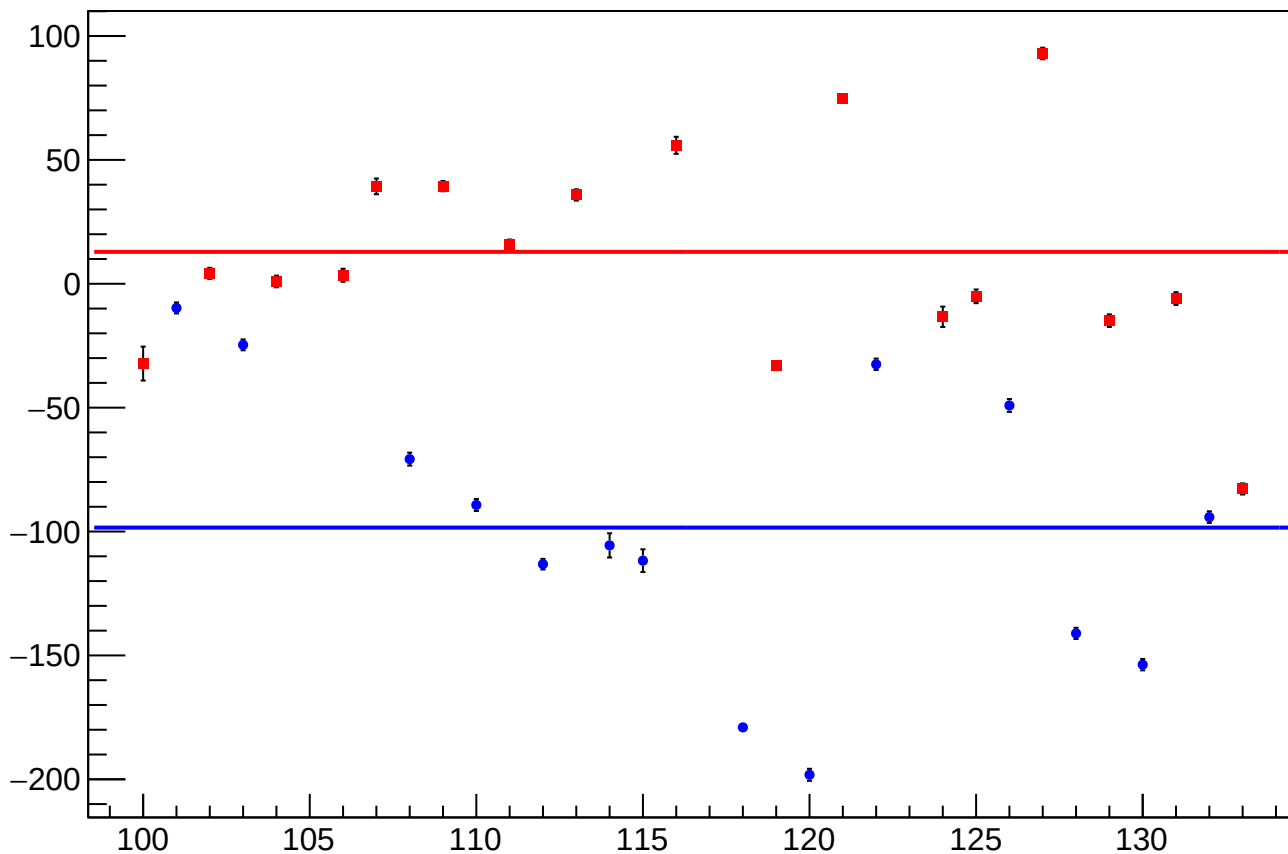
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1223.204 $\pm$ 0.242  $\chi^2$ /NDF: 67671.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i02aX\_mean vs Slug



Right In:  $-98.403 \pm 0.652$   $\chi^2/\text{NDF}: 8276.2/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $12.887 \pm 0.603$   $\chi^2/\text{NDF}: 5326.8/16$

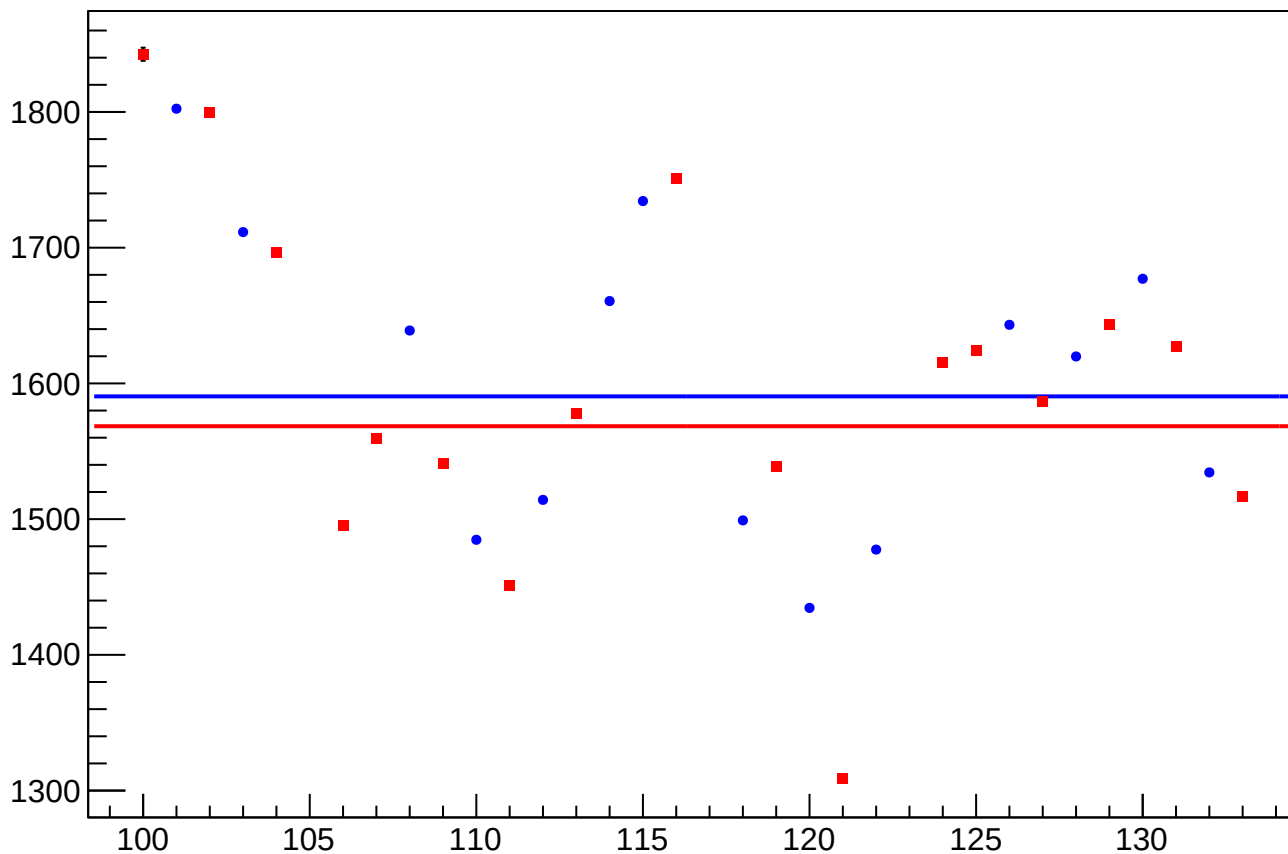
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-38.428 \pm 0.443$   $\chi^2/\text{NDF}: 29298.8/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# diff\_bpm0i02aX\_rms vs Slug



Right In: 1590.432 $\pm$ 0.461  $\chi^2$ /NDF: 55894.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1568.461 $\pm$ 0.427  $\chi^2$ /NDF: 83885.1/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

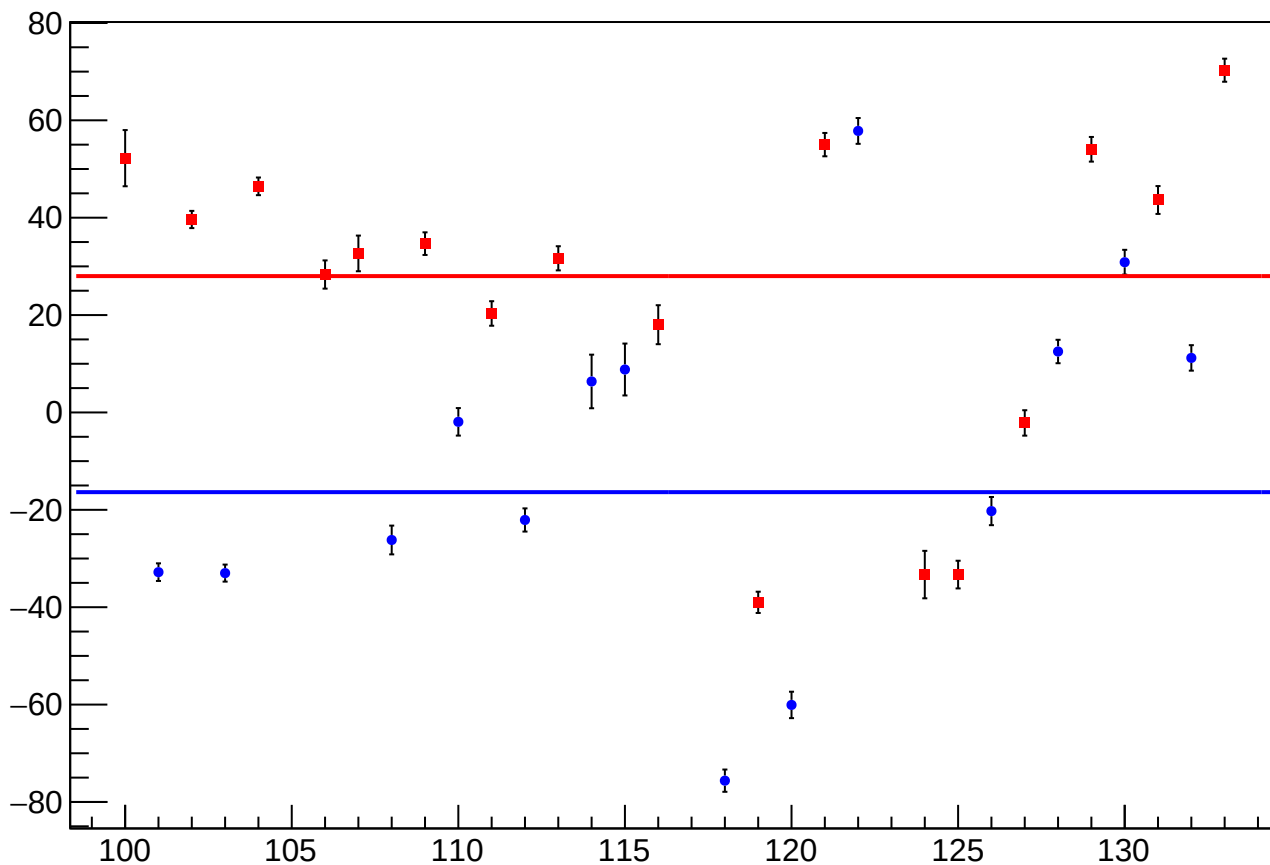
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1578.592 $\pm$ 0.313  $\chi^2$ /NDF: 141002.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm0i02aY\_mean vs Slug



Right In:  $-16.369 \pm 0.678$   $\chi^2/\text{NDF}$ : 2571.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $28.005 \pm 0.624$   $\chi^2/\text{NDF}$ : 2470.7/16

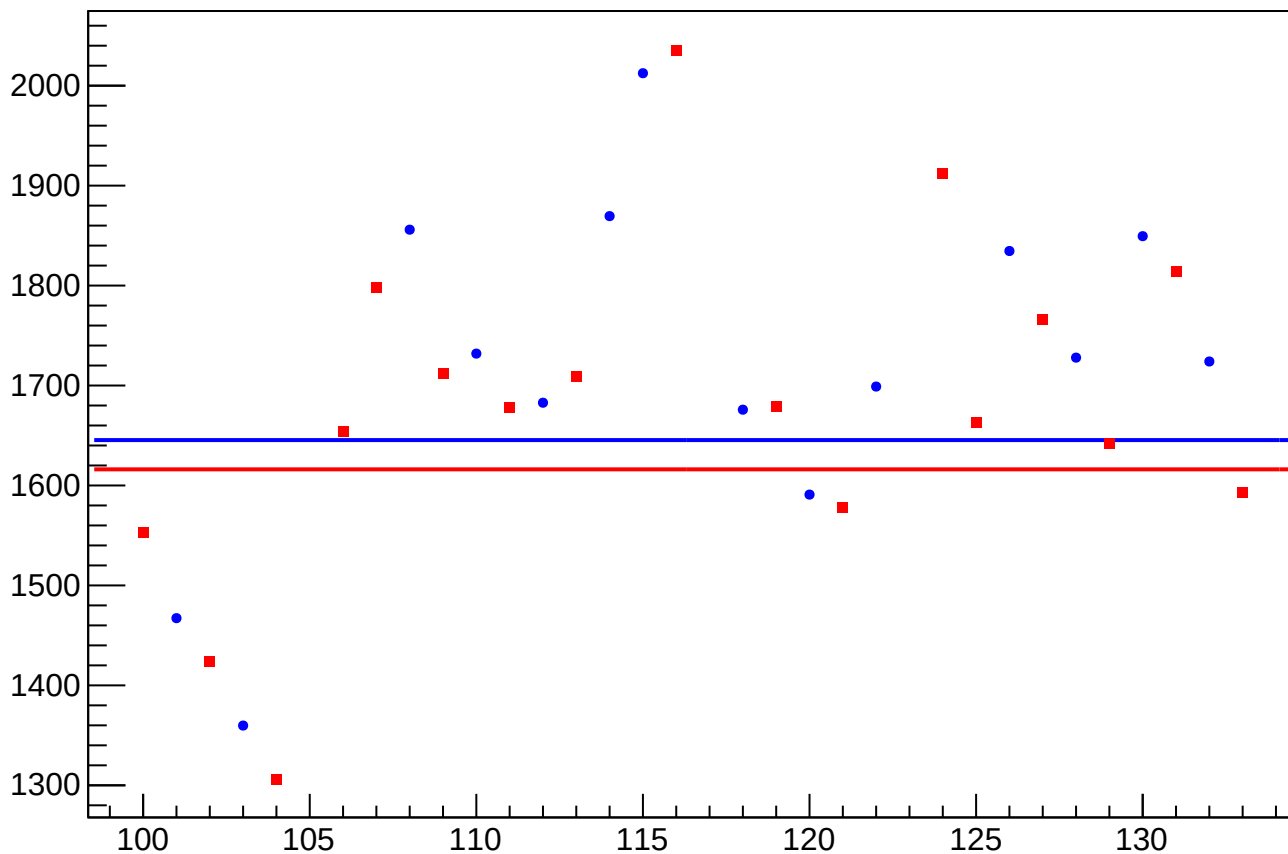
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $7.639 \pm 0.459$   $\chi^2/\text{NDF}$ : 7363.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i02aY\_rms vs Slug



Right In: 1645.407 $\pm$ 0.479  $\chi^2$ /NDF: 125588.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1616.133 $\pm$ 0.441  $\chi^2$ /NDF: 143687.3/16

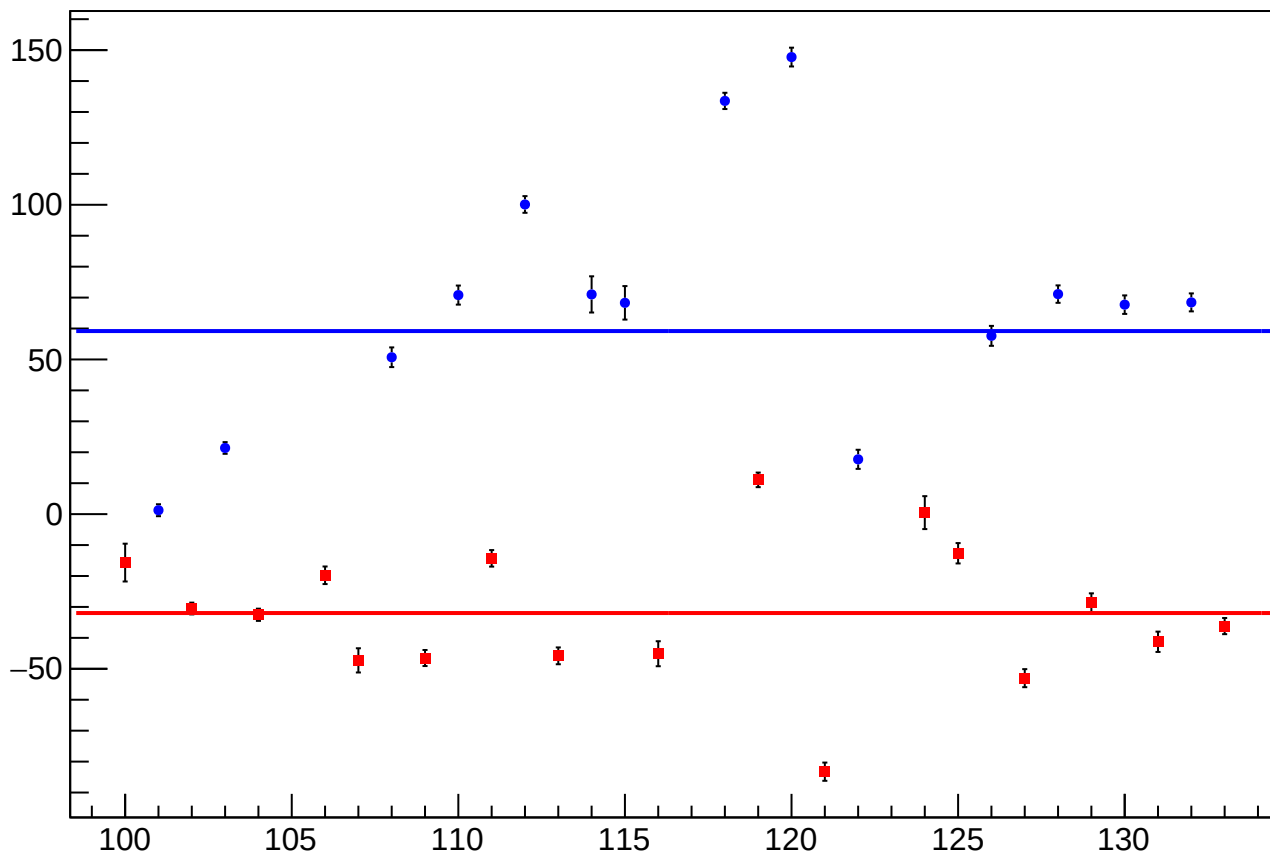
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1629.568 $\pm$ 0.325  $\chi^2$ /NDF: 271296.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i05X\_mean vs Slug



Right In: 59.180 $\pm$ 0.753  $\chi^2/\text{NDF}$ : 3427.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -31.974 $\pm$ 0.687  $\chi^2/\text{NDF}$ : 925.7/16

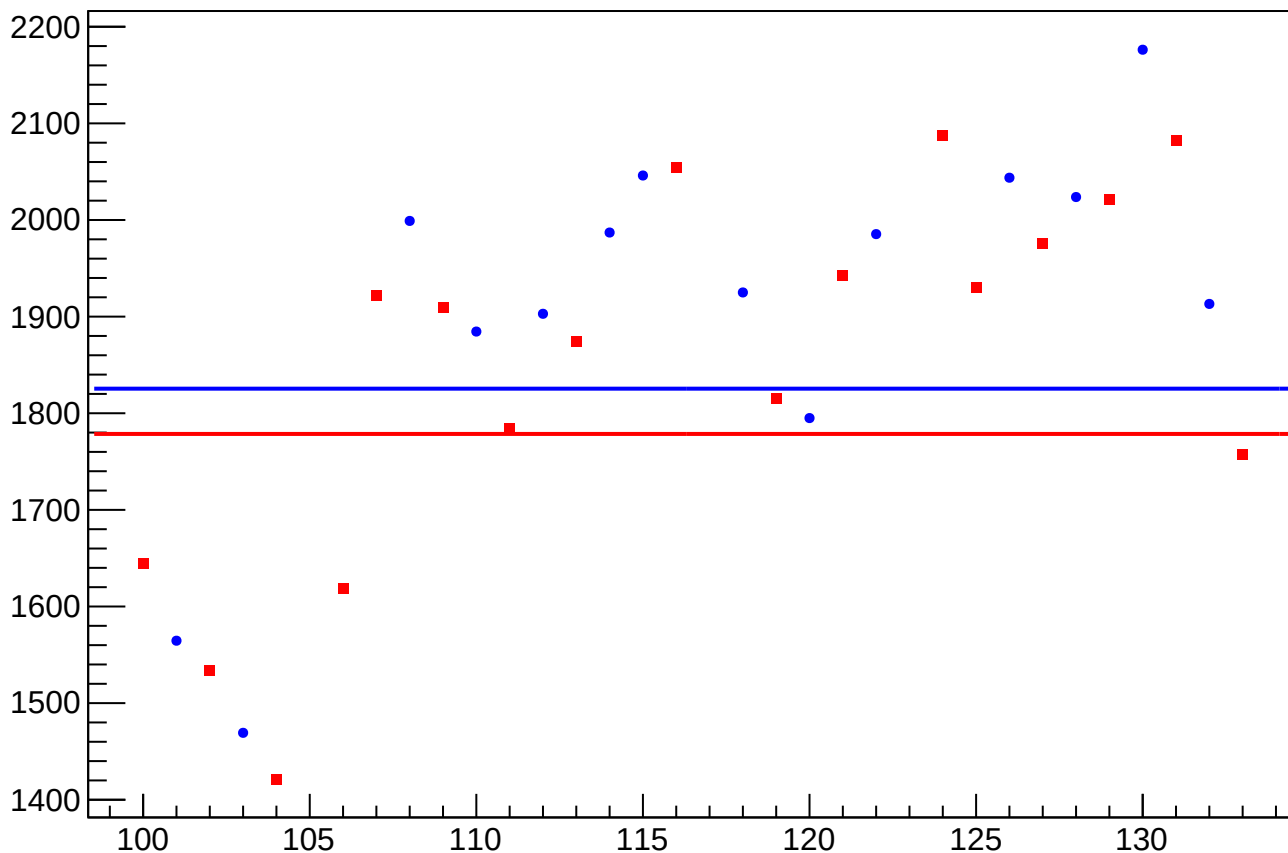
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.449 $\pm$ 0.508  $\chi^2/\text{NDF}$ : 12349.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i05X\_rms vs Slug



Right In: 1825.441+/-0.532  $\chi^2/\text{NDF}$ : 177573.7/13

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

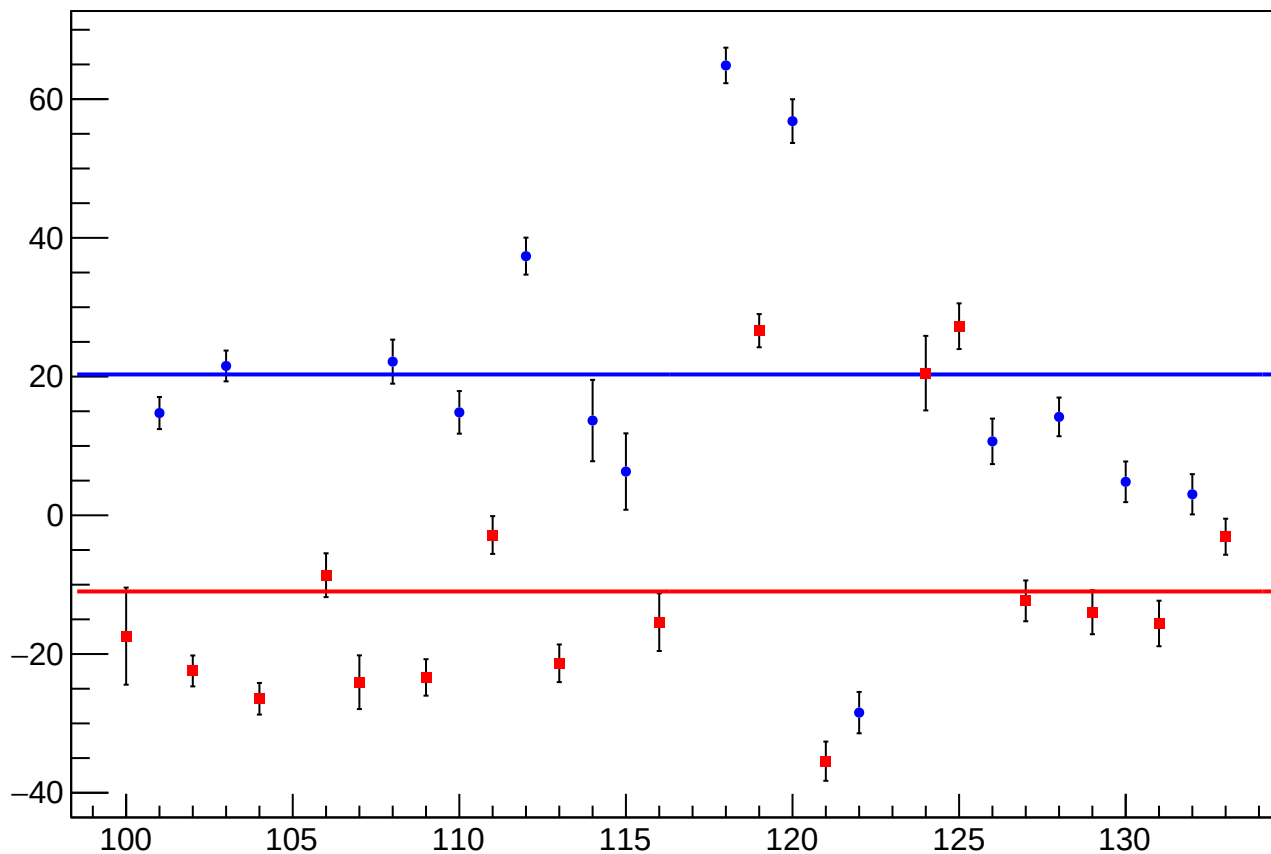
Right Out: 1778.587+/-0.486  $\chi^2/\text{NDF}$ : 181799.2/16

All: 1799.879+/-0.359  $\chi^2/\text{NDF}$ : 363597.6/30

- 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\_bpm0i05Y\_mean vs Slug



Right In: 20.308+/-0.786  $\chi^2/\text{NDF}$ : 838.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10.978+/-0.719  $\chi^2/\text{NDF}$ : 635.3/16

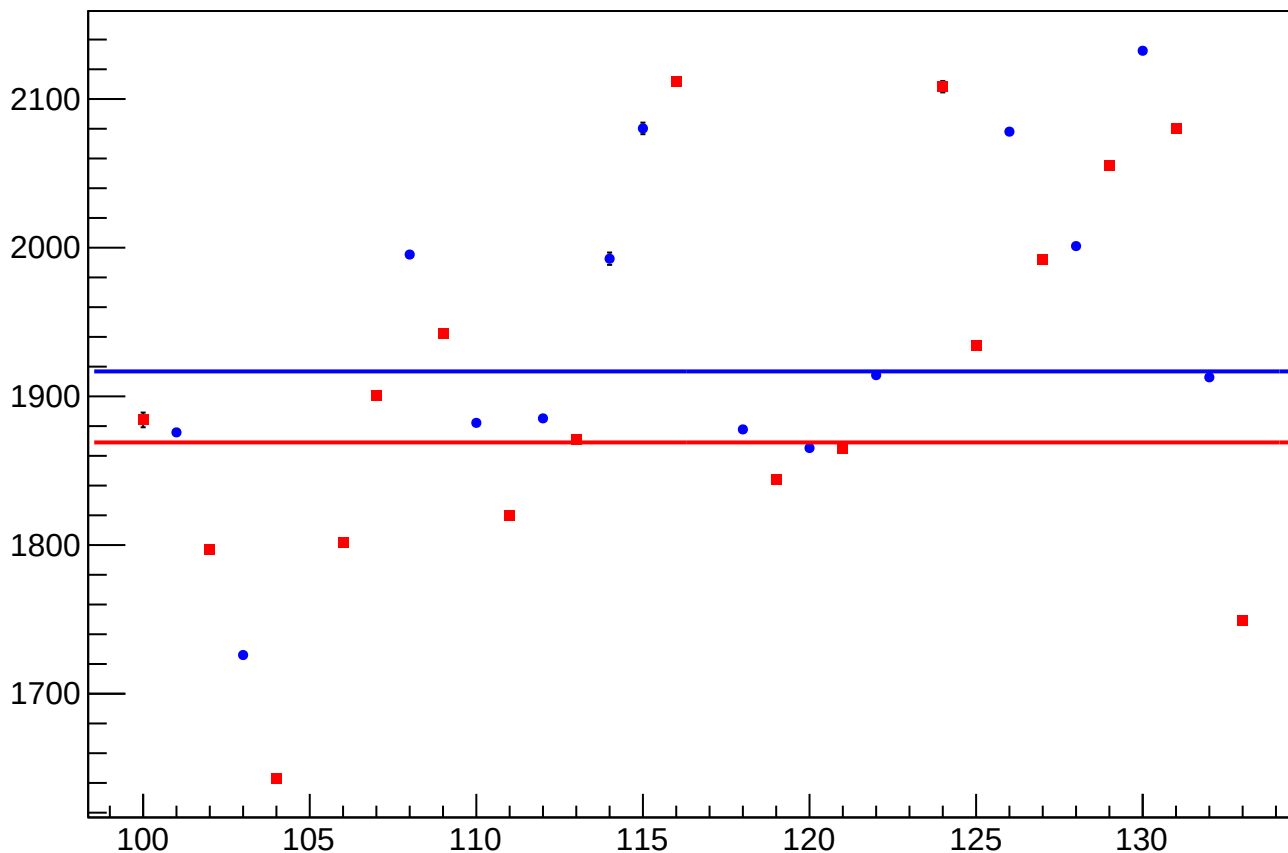
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.271+/-0.530  $\chi^2/\text{NDF}$ : 2337.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm0i05Y\_rms vs Slug



Right In: 1916.798 $\pm$ 0.556  $\chi^2$ /NDF: 37744.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1869.023 $\pm$ 0.508  $\chi^2$ /NDF: 59695.9/16

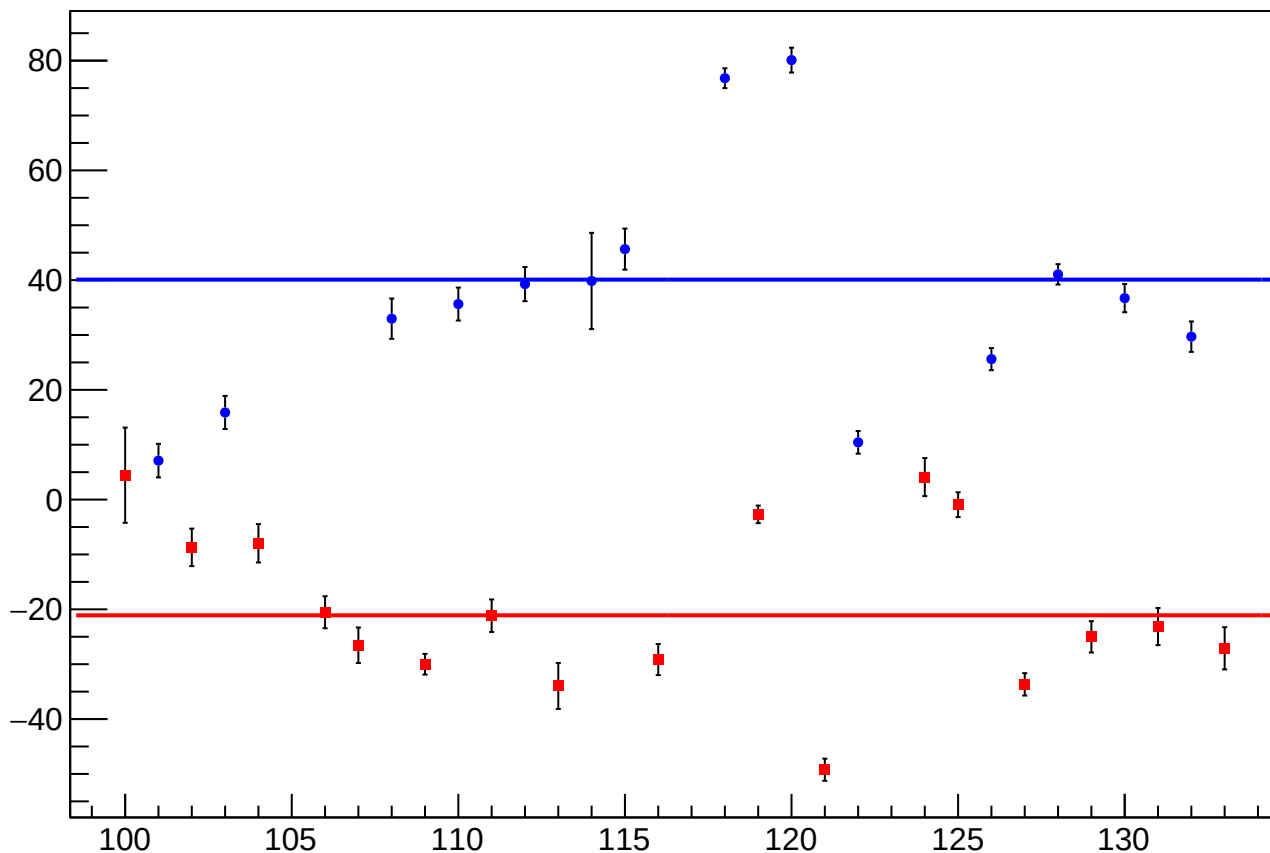
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1890.781 $\pm$ 0.375  $\chi^2$ /NDF: 101466.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i07X\_mean vs Slug



Right In: 40.091+/-0.683  $\chi^2$ /NDF: 1187.5/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -21.087+/-0.645  $\chi^2$ /NDF: 581.1/16

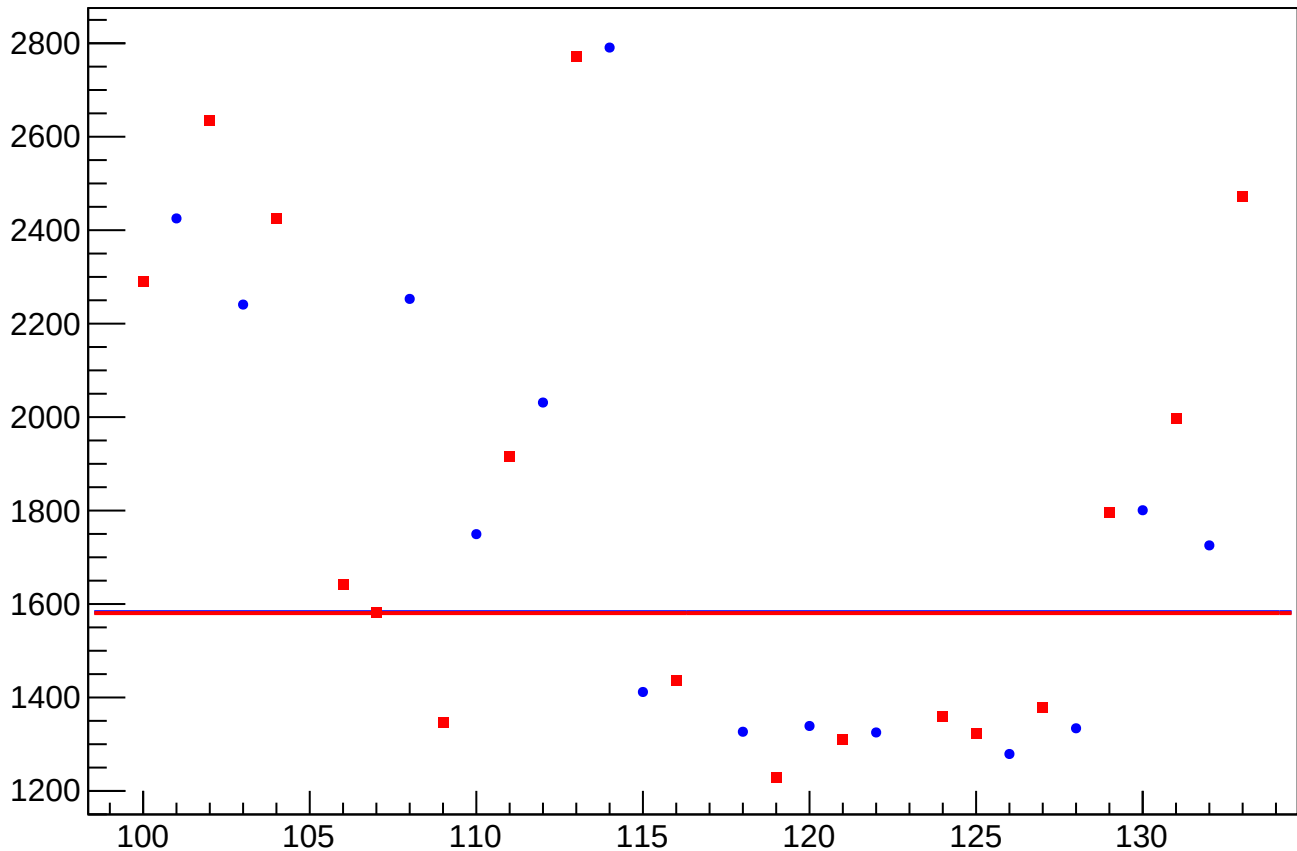
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 7.732+/-0.469  $\chi^2$ /NDF: 6010.5/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i07X\_rms vs Slug



Right In:  $1582.527 \pm 0.483$   $\chi^2/\text{NDF}: 598995.9/13$

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:  $1580.586 \pm 0.456$   $\chi^2/\text{NDF}: 880635.8/16$

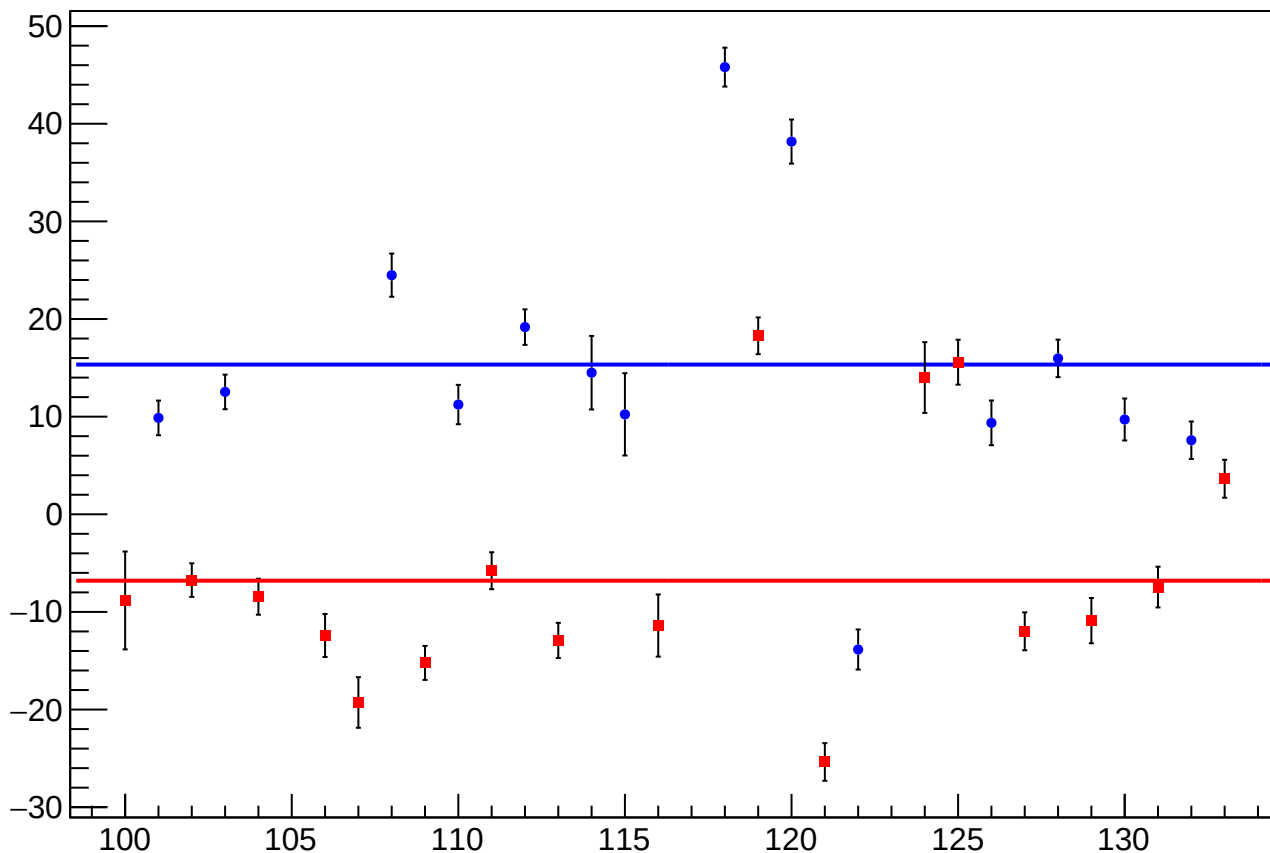
All:  $1581.500 \pm 0.332$   $\chi^2/\text{NDF}: 1479640.3/30$

- 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\_bpm0i07Y\_mean vs Slug



Right In: 15.337 $\pm$ 0.563  $\chi^2$ /NDF: 607.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -6.805 $\pm$ 0.513  $\chi^2$ /NDF: 504.7/16

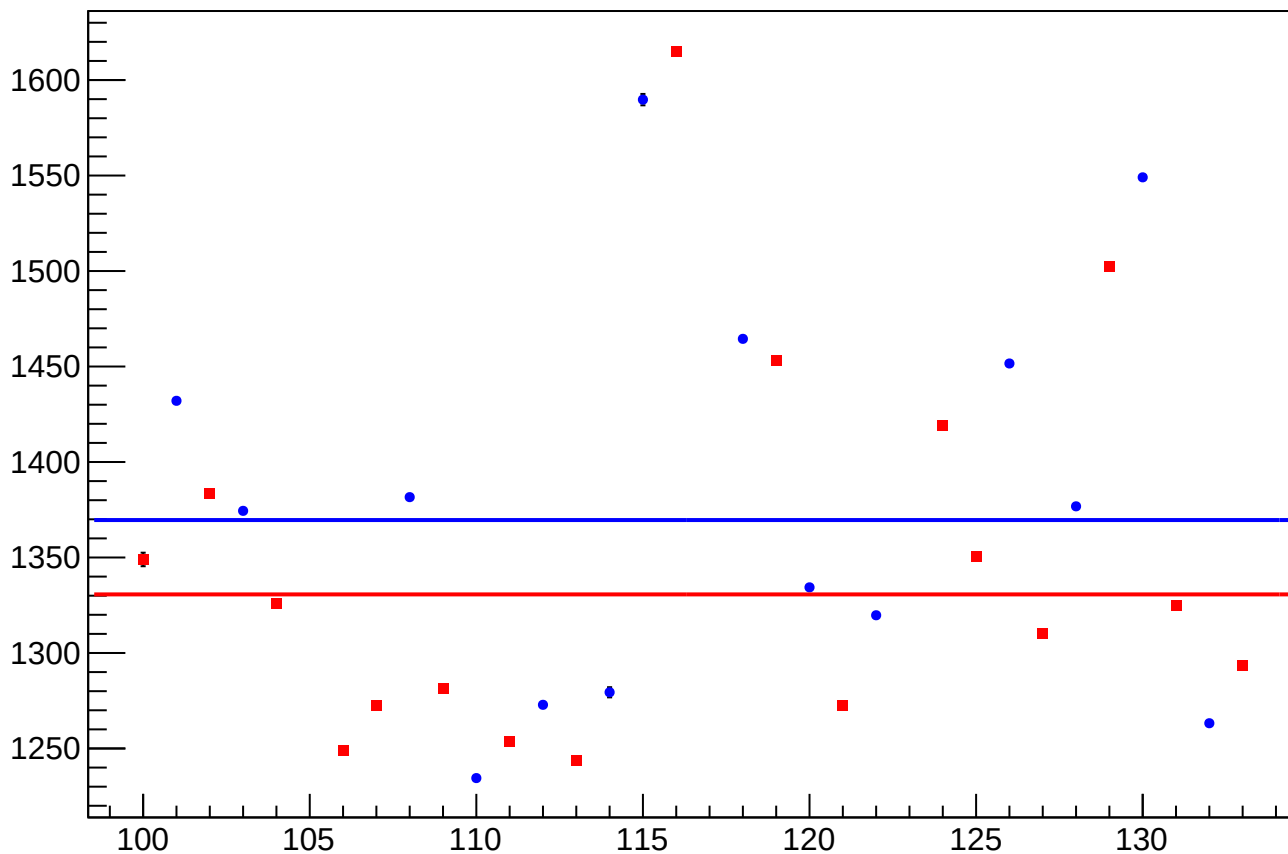
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.227 $\pm$ 0.379  $\chi^2$ /NDF: 1956.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm0i07Y\_rms vs Slug



Right In: 1369.608 $\pm$ 0.398  $\chi^2$ /NDF: 52689.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1330.676 $\pm$ 0.363  $\chi^2$ /NDF: 54762.1/16

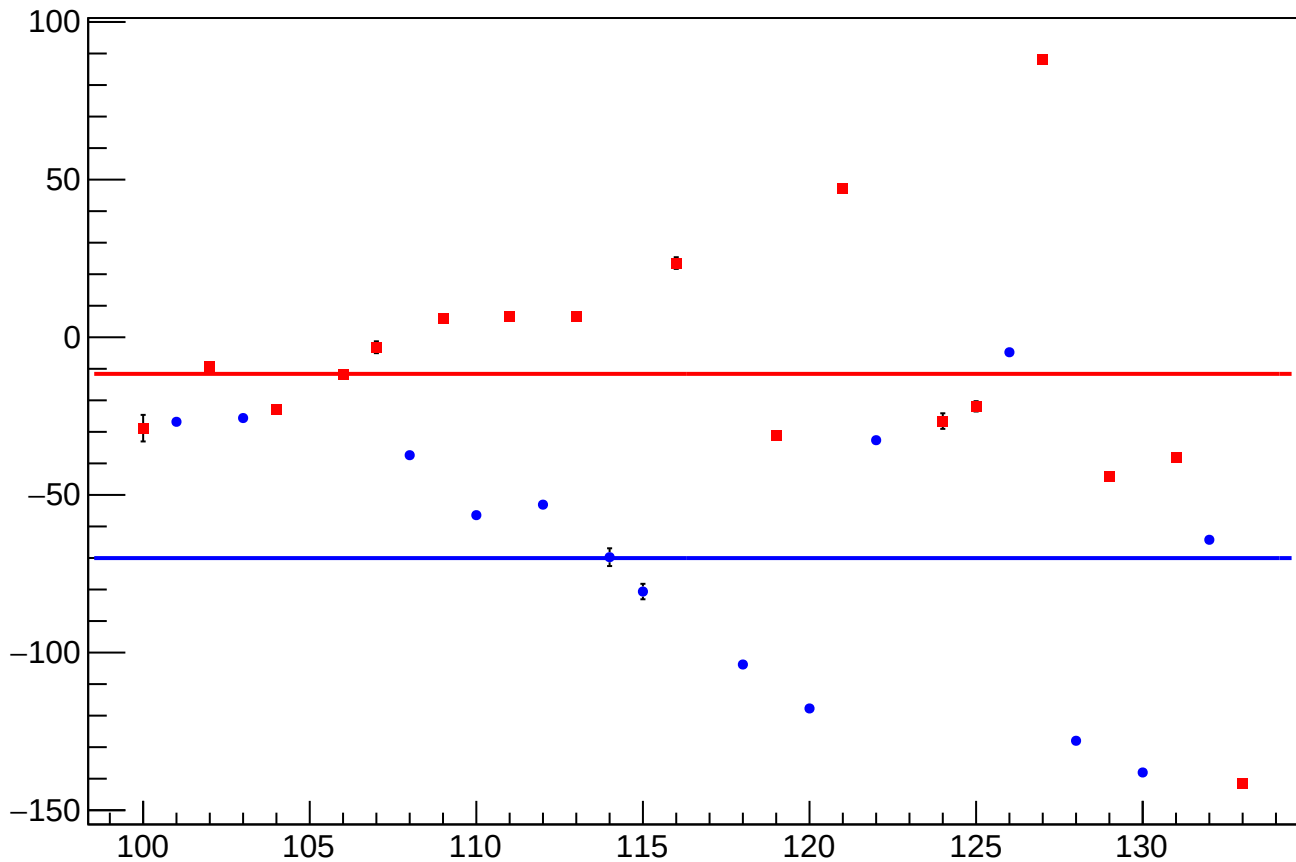
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1348.316 $\pm$ 0.268  $\chi^2$ /NDF: 112674.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i02X\_mean vs Slug



Right In:  $-70.034 \pm 0.386$   $\chi^2/\text{NDF}$ : 11922.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-11.606 \pm 0.362$   $\chi^2/\text{NDF}$ : 18867.7/16

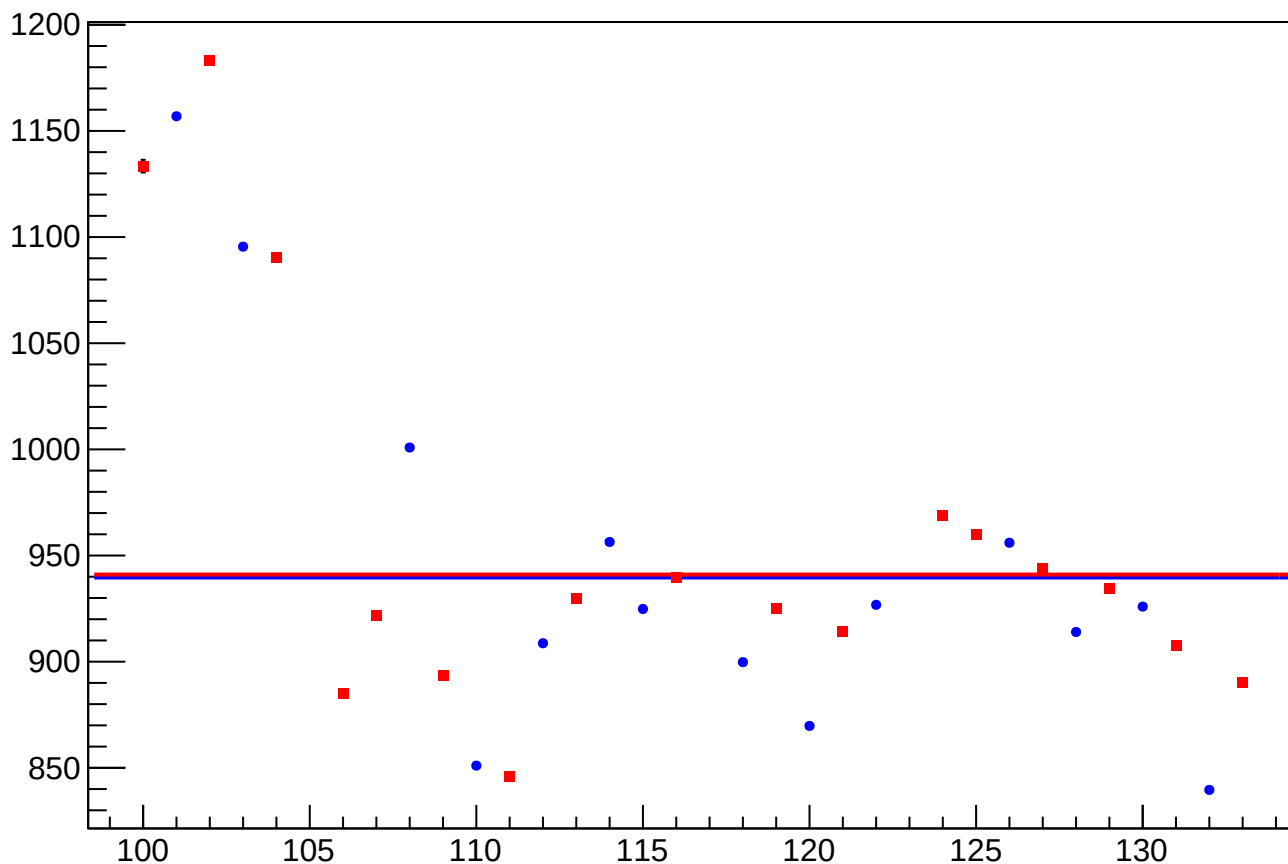
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-38.951 \pm 0.264$   $\chi^2/\text{NDF}$ : 42970.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1i02X\_rms vs Slug



Right In: 939.657 $\pm$ 0.273  $\chi^2$ /NDF: 103563.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 941.030 $\pm$ 0.256  $\chi^2$ /NDF: 100998.5/16

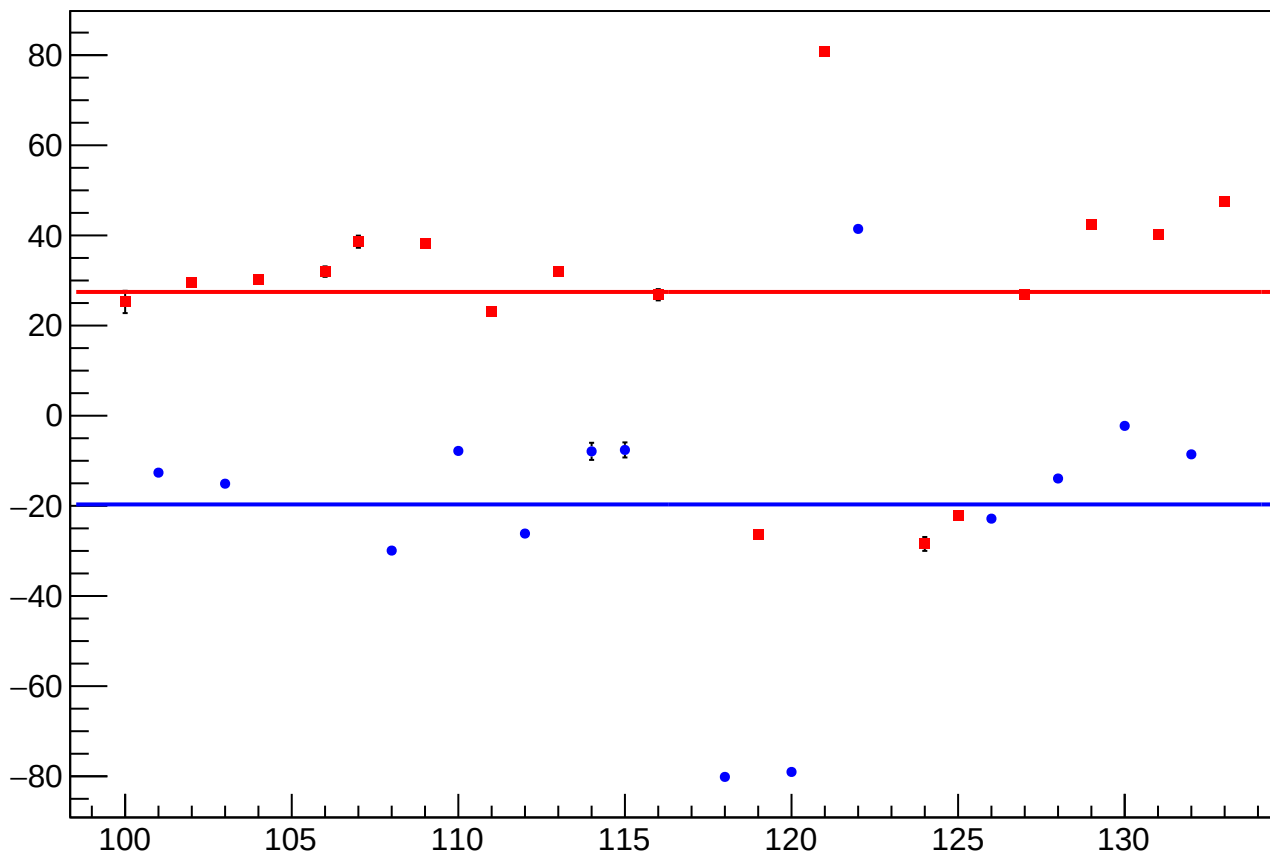
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 940.388 $\pm$ 0.187  $\chi^2$ /NDF: 204575.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i02Y\_mean vs Slug



Right In:  $-19.685 \pm 0.260$   $\chi^2/\text{NDF}$ : 13168.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $27.459 \pm 0.242$   $\chi^2/\text{NDF}$ : 12742.4/16

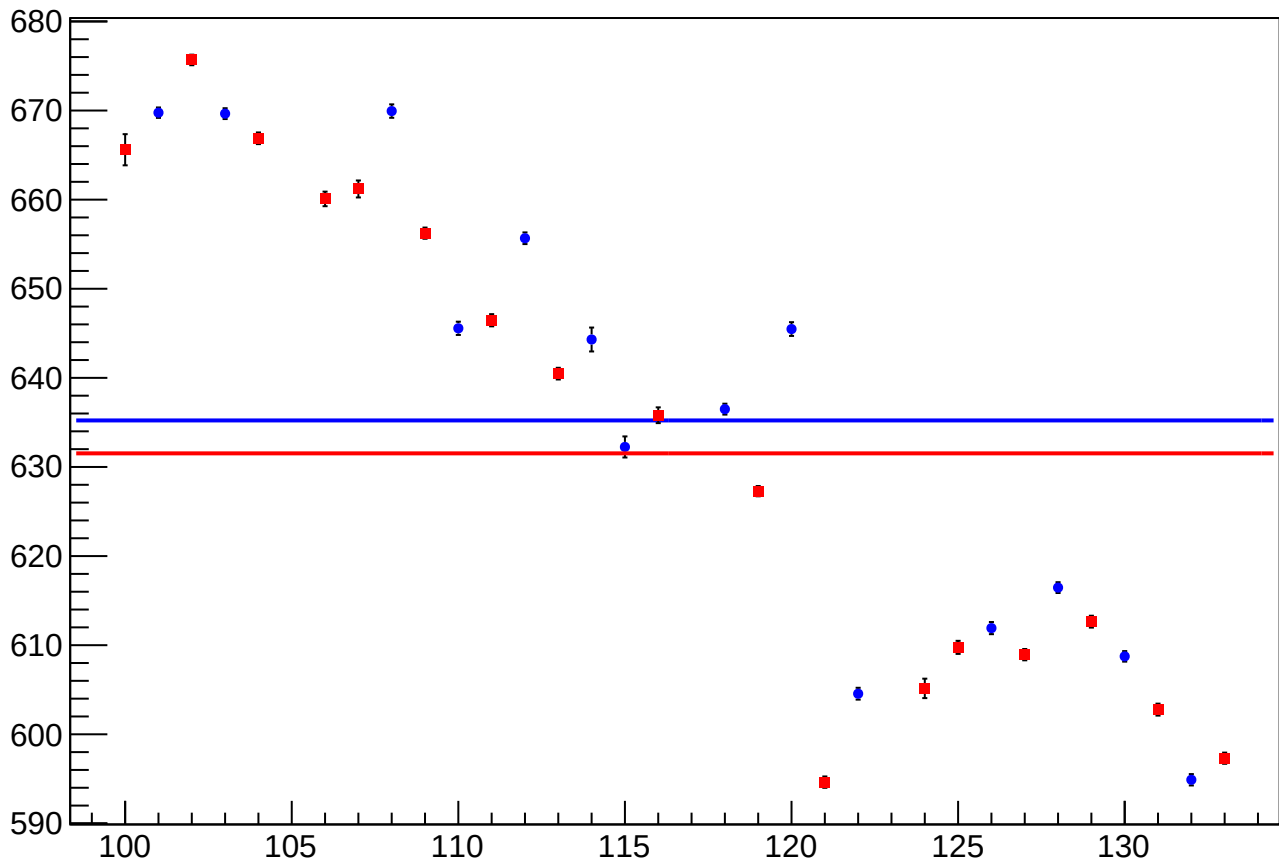
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $5.549 \pm 0.177$   $\chi^2/\text{NDF}$ : 43512.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1i02Y\_rms vs Slug



Right In: 635.222 $\pm$ 0.184  $\chi^2$ /NDF: 20471.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 631.527 $\pm$ 0.171  $\chi^2$ /NDF: 25040.6/16

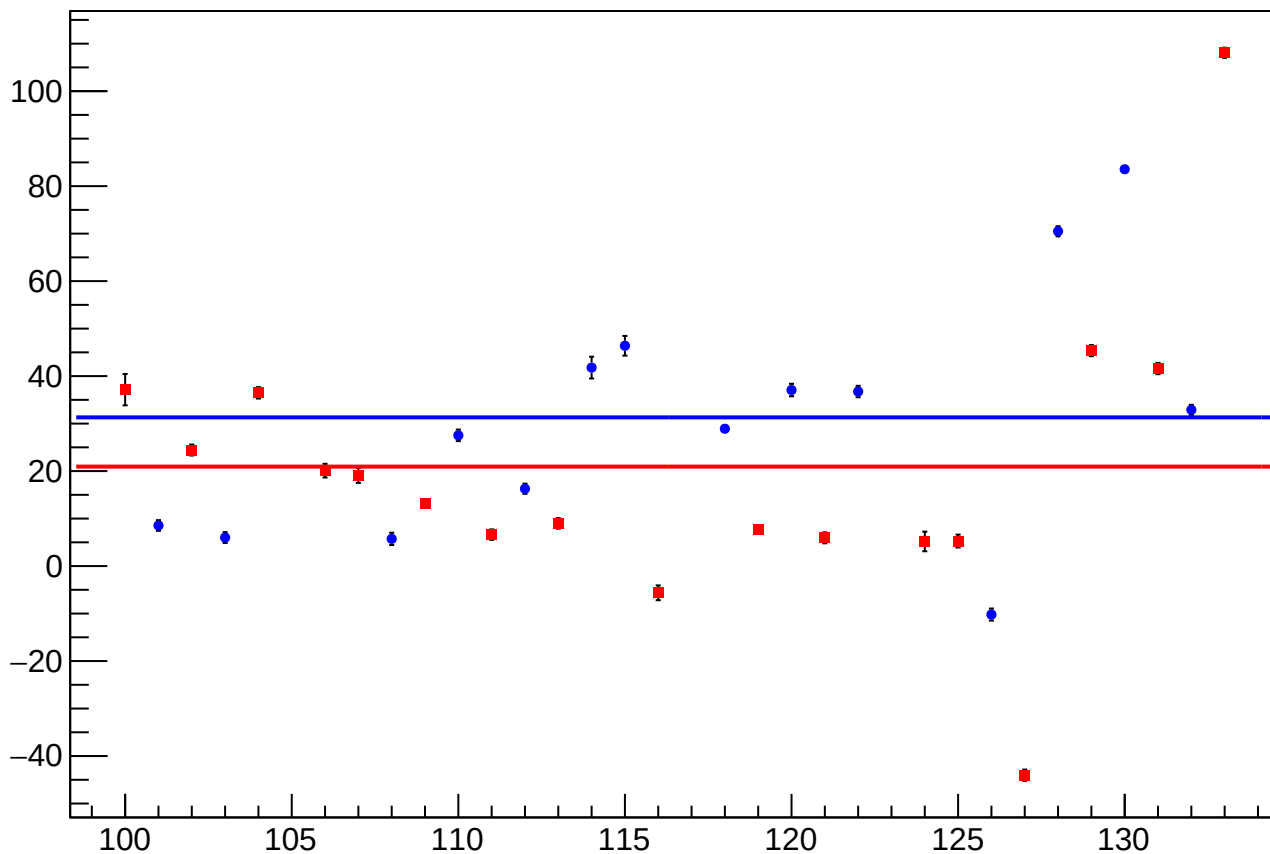
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 633.244 $\pm$ 0.125  $\chi^2$ /NDF: 45727.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i04X\_mean vs Slug



Right In: 31.310 $\pm$ 0.323  $\chi^2$ /NDF: 6531.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 20.942 $\pm$ 0.302  $\chi^2$ /NDF: 11760.8/16

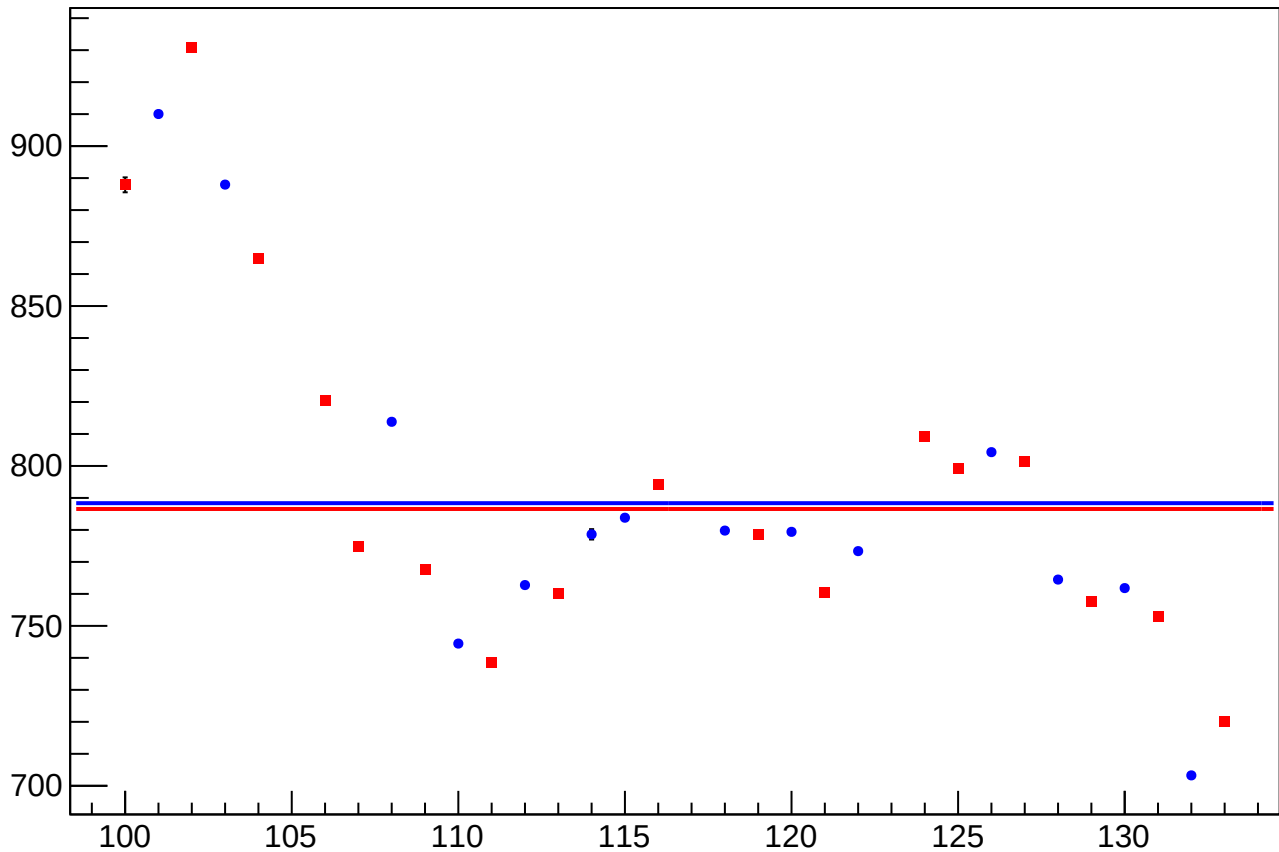
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.777 $\pm$ 0.221  $\chi^2$ /NDF: 18840.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i04X\_rms vs Slug



Right In: 788.363 $\pm$ 0.229  $\chi^2$ /NDF: 59117.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 786.551 $\pm$ 0.214  $\chi^2$ /NDF: 60872.0/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

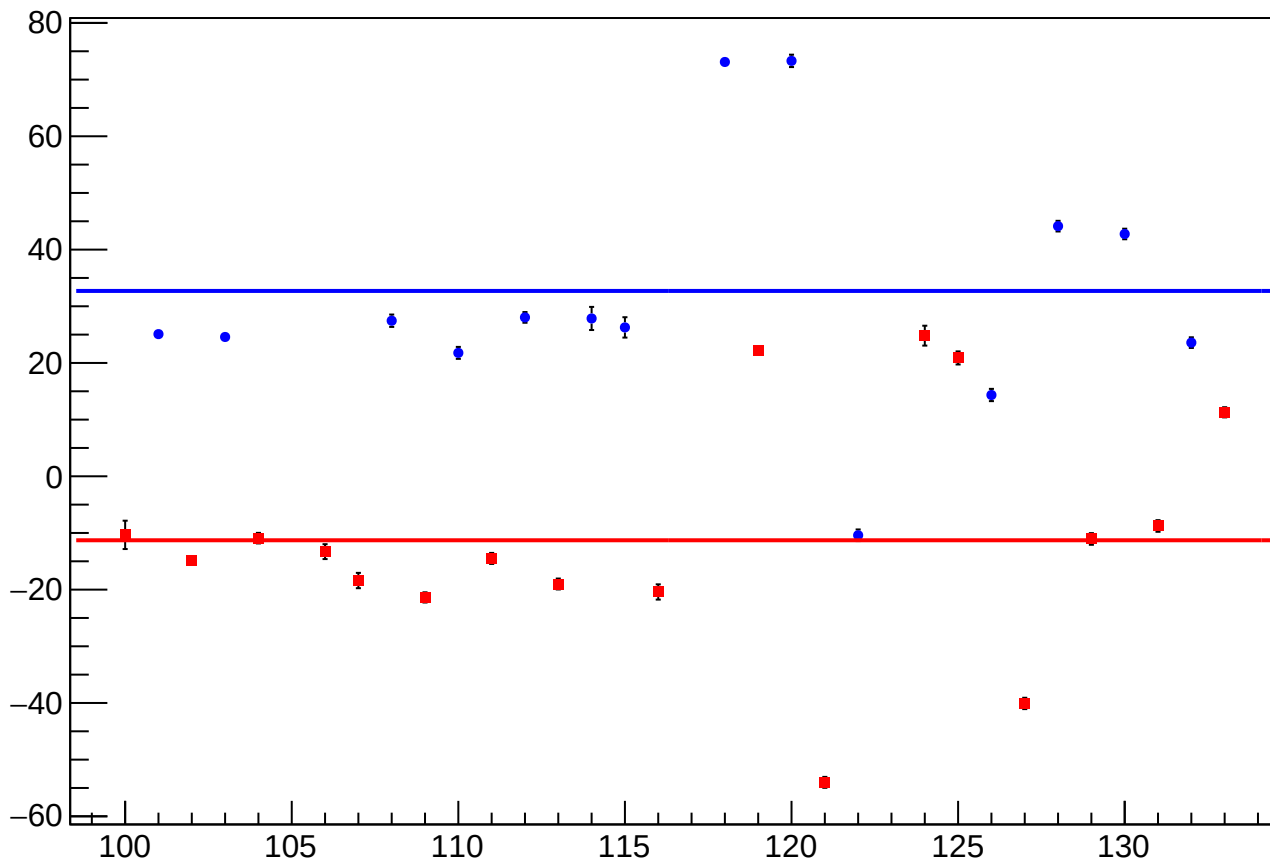
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 787.396 $\pm$ 0.156  $\chi^2$ /NDF: 120022.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# diff\_bpm1i04Y\_mean vs Slug



Right In: 32.708+/-0.272  $\chi^2/\text{NDF}$ : 6257.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11.290+/-0.255  $\chi^2/\text{NDF}$ : 6486.4/16

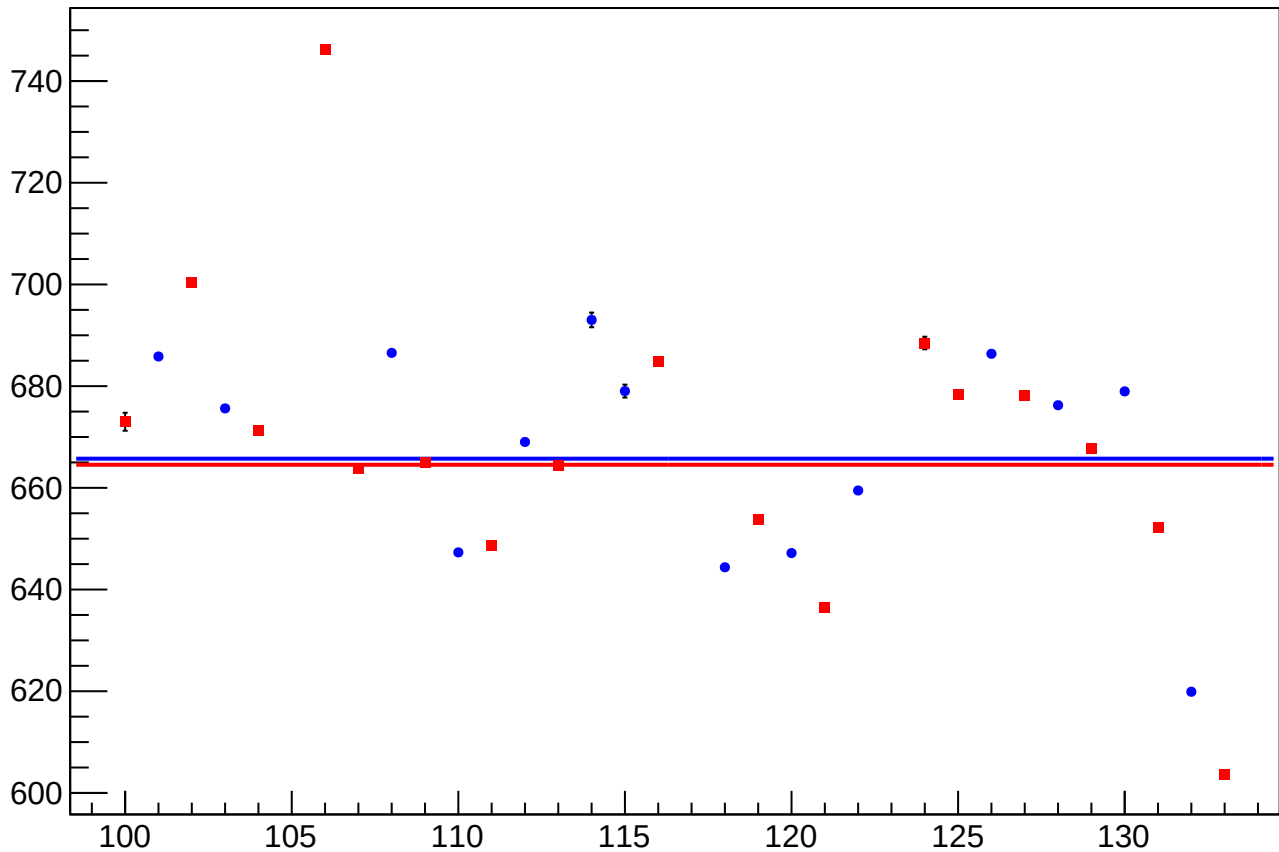
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.261+/-0.186  $\chi^2/\text{NDF}$ : 26645.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1i04Y\_rms vs Slug



Right In: 665.735 $\pm$ 0.193  $\chi^2$ /NDF: 11183.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 664.541 $\pm$ 0.180  $\chi^2$ /NDF: 24871.4/16

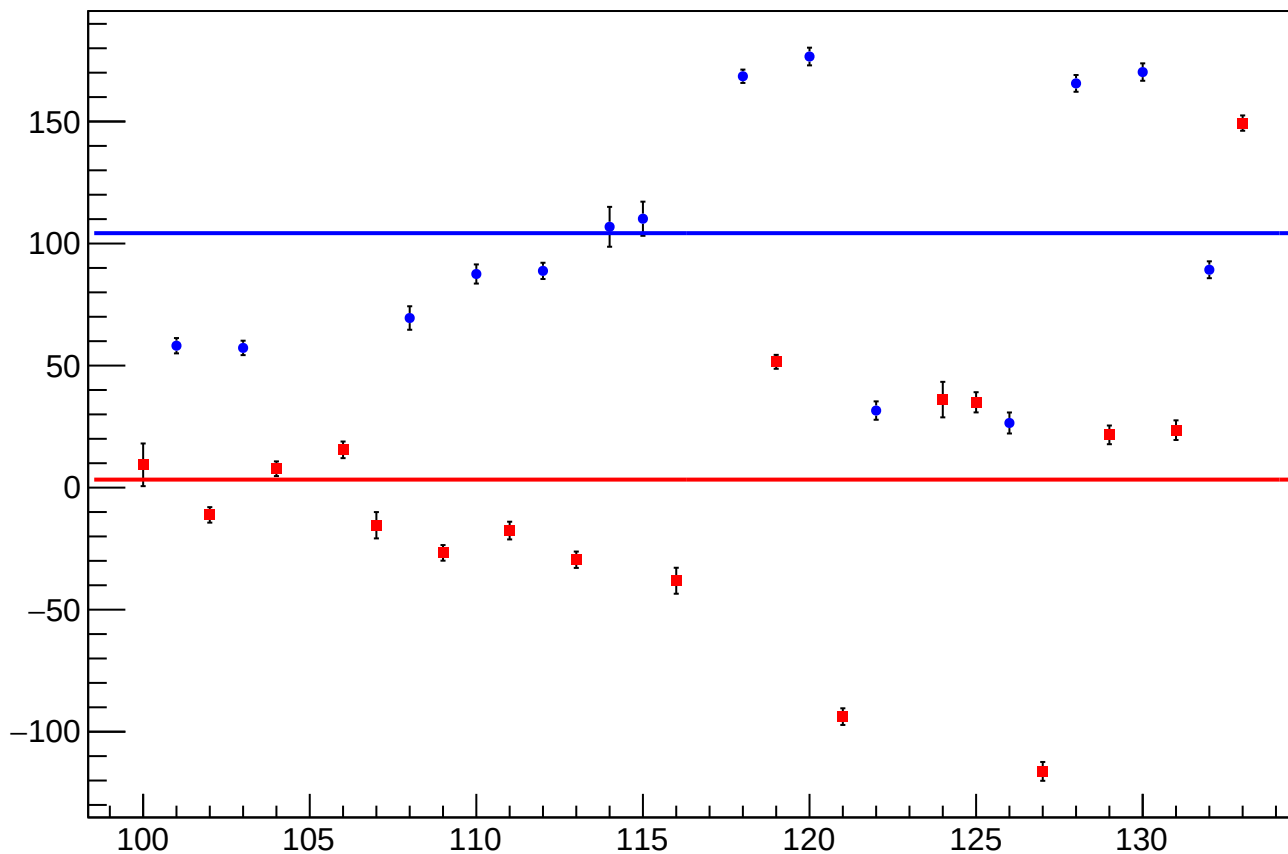
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 665.099 $\pm$ 0.132  $\chi^2$ /NDF: 36075.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i06X\_mean vs Slug



Right In: 104.251 $\pm$ 0.985  $\chi^2$ /NDF: 2892.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.286 $\pm$ 0.903  $\chi^2$ /NDF: 4677.7/16

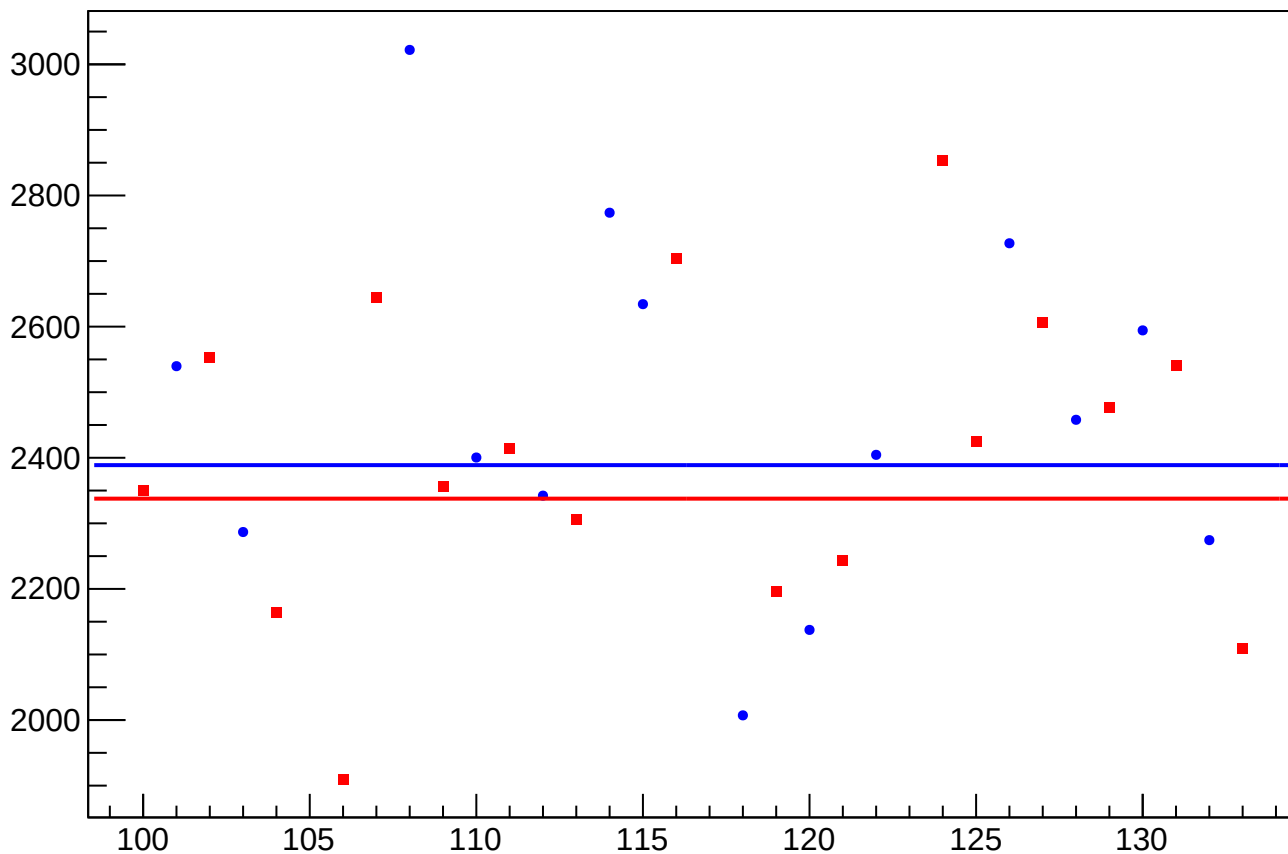
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 49.417 $\pm$ 0.666  $\chi^2$ /NDF: 13280.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# diff\_bpm1i06X\_rms vs Slug



Right In: 2388.775 $\pm$ 0.696  $\chi^2$ /NDF: 119539.5/13

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

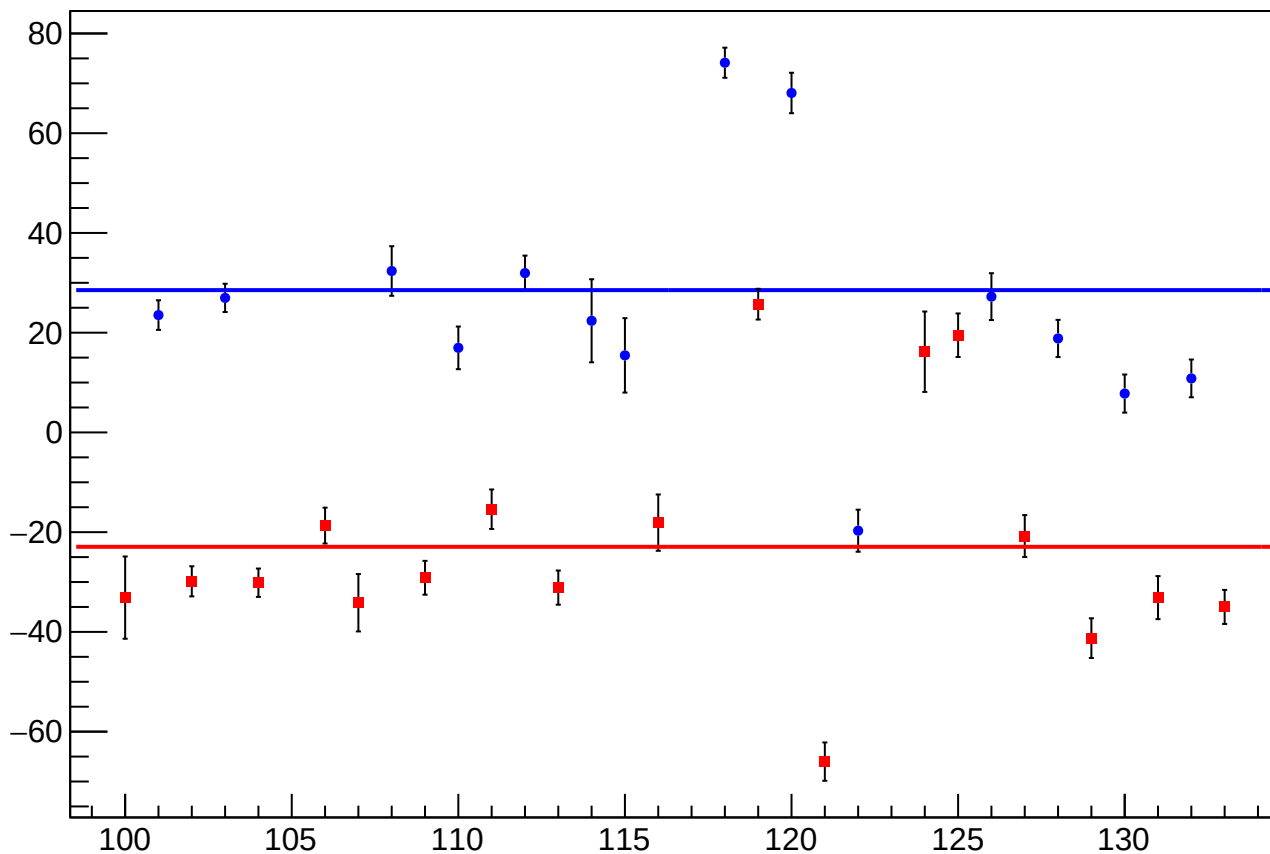
Right Out: 2337.661 $\pm$ 0.639  $\chi^2$ /NDF: 110056.4/16

All: 2361.015 $\pm$ 0.471  $\chi^2$ /NDF: 232523.3/30

- 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\_bpm1i06Y\_mean vs Slug



Right In: 28.533+/-1.038  $\chi^2/\text{NDF}$ : 527.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -22.934+/-0.944  $\chi^2/\text{NDF}$ : 563.4/16

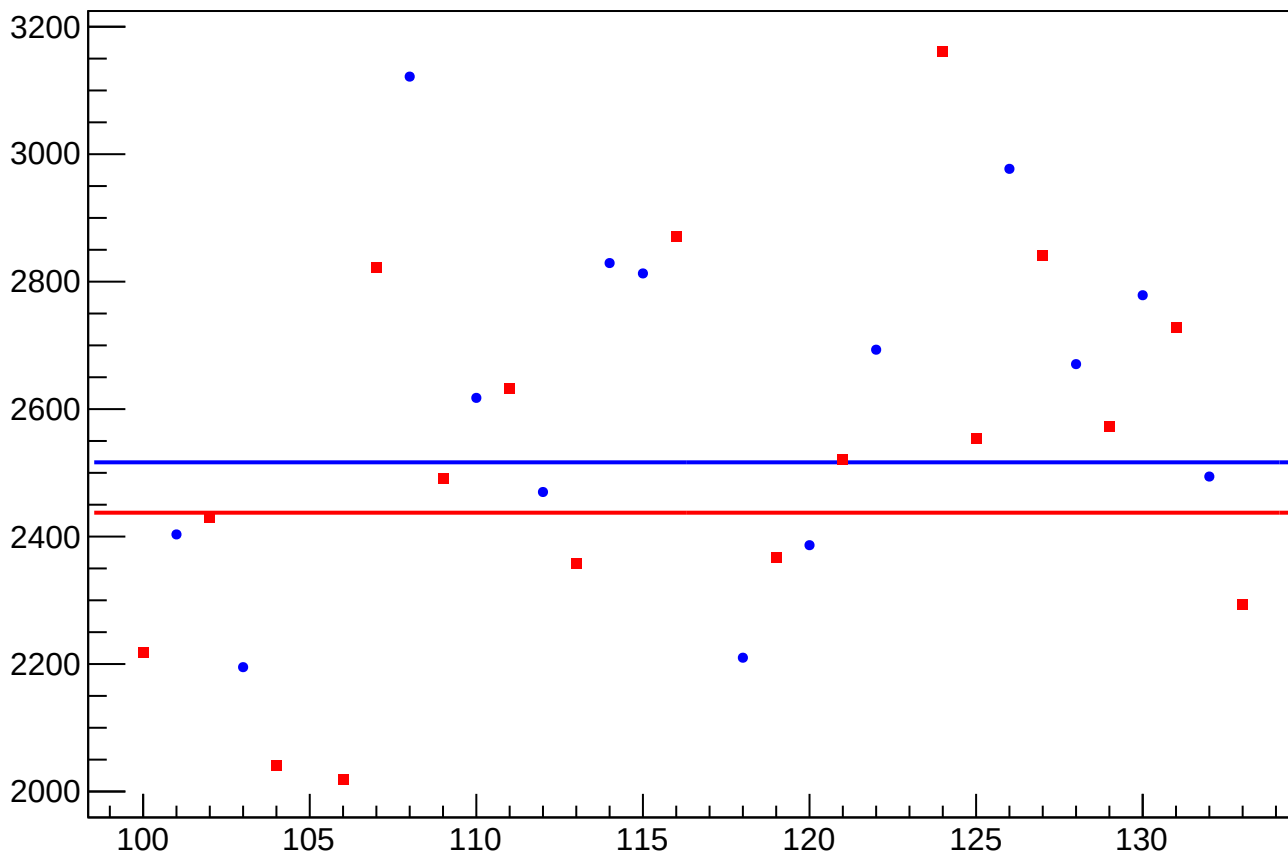
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.369+/-0.698  $\chi^2/\text{NDF}$ : 2437.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1i06Y\_rms vs Slug



Right In: 2516.504+/-0.734  $\chi^2/\text{NDF}$ : 123995.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2437.470+/-0.667  $\chi^2/\text{NDF}$ : 147399.1/16

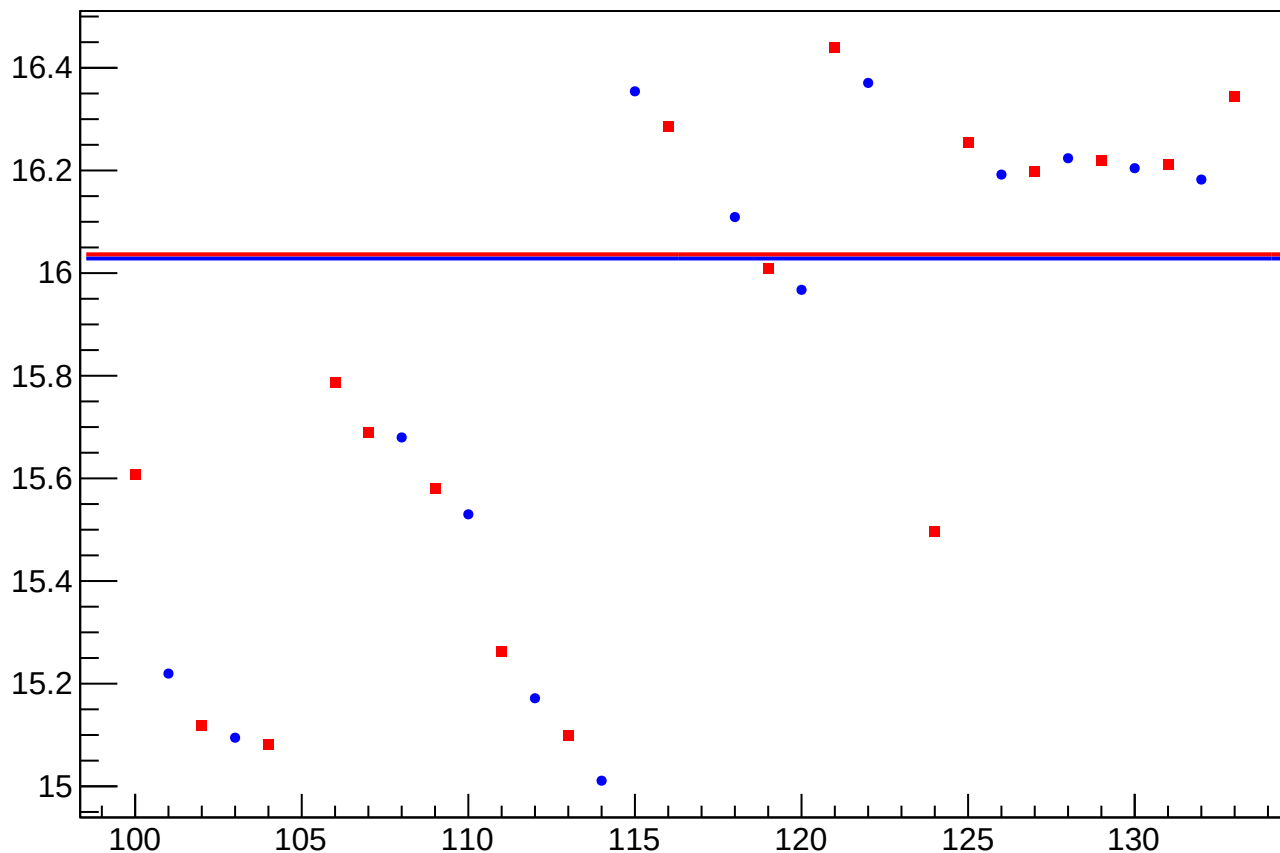
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2473.254+/-0.494  $\chi^2/\text{NDF}$ : 277743.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam1\_mean vs Slug



Right In: 16.029+/-0.000  $\chi^2/\text{NDF}$ : 2710335947.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16.037+/-0.000  $\chi^2/\text{NDF}$ : 3519657877.1/16

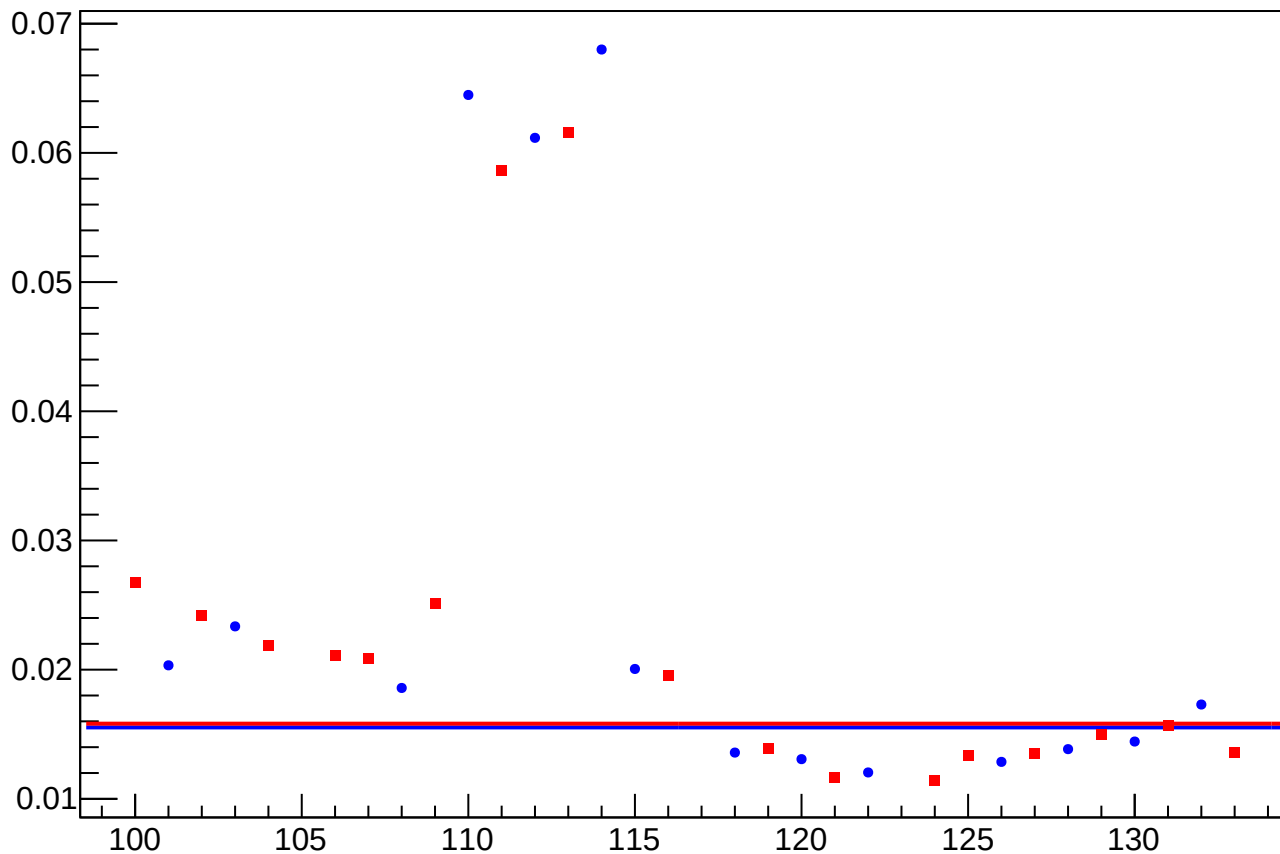
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.033+/-0.000  $\chi^2/\text{NDF}$ : 6230660615.6/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam1\_rms vs Slug



Right In: 0.016 $\pm$ 0.000  $\chi^2$ /NDF: 1422453.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.016 $\pm$ 0.000  $\chi^2$ /NDF: 1592271.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

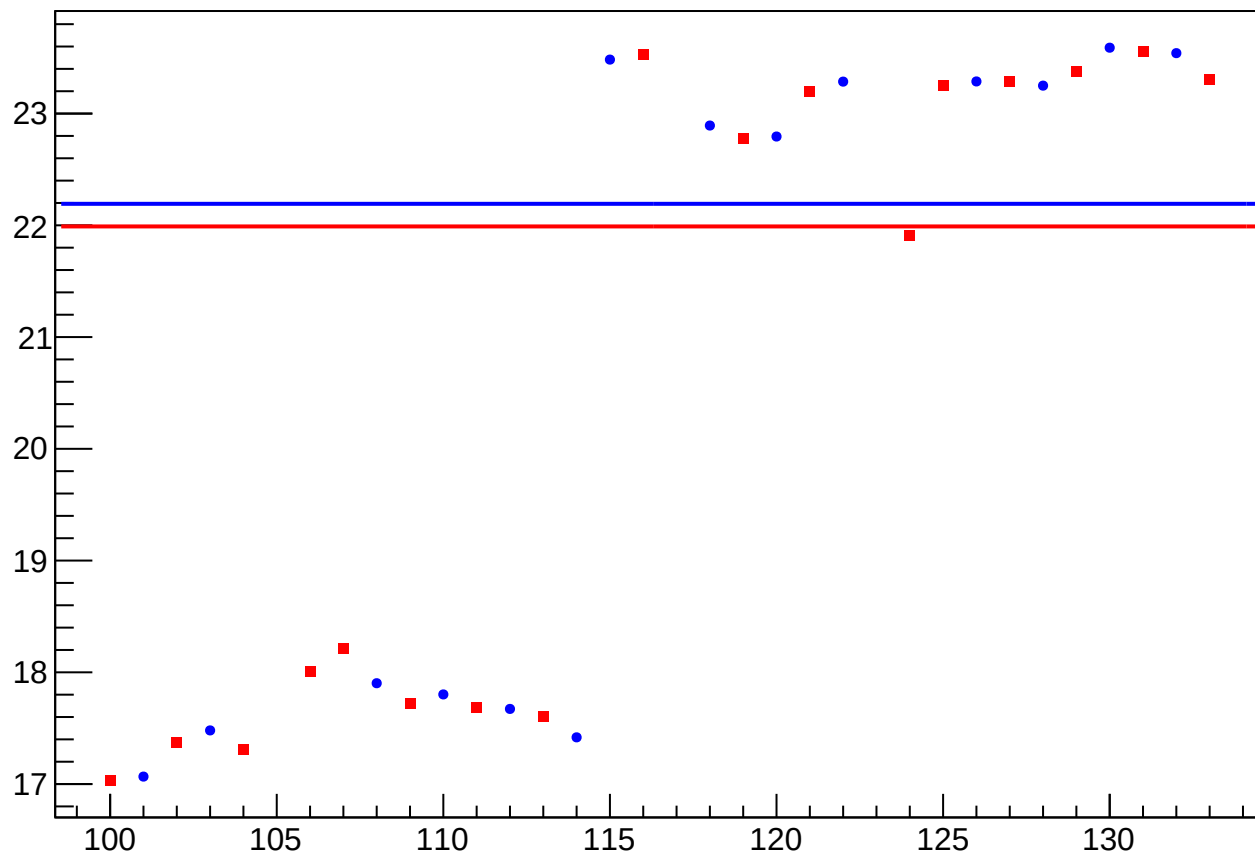
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.000  $\chi^2$ /NDF: 3016467.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_sam2\_mean vs Slug



Right In: 22.192+/-0.000  $\chi^2/\text{NDF}$ : 1051821644.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.990+/-0.000  $\chi^2/\text{NDF}$ : 1094463255.6/16

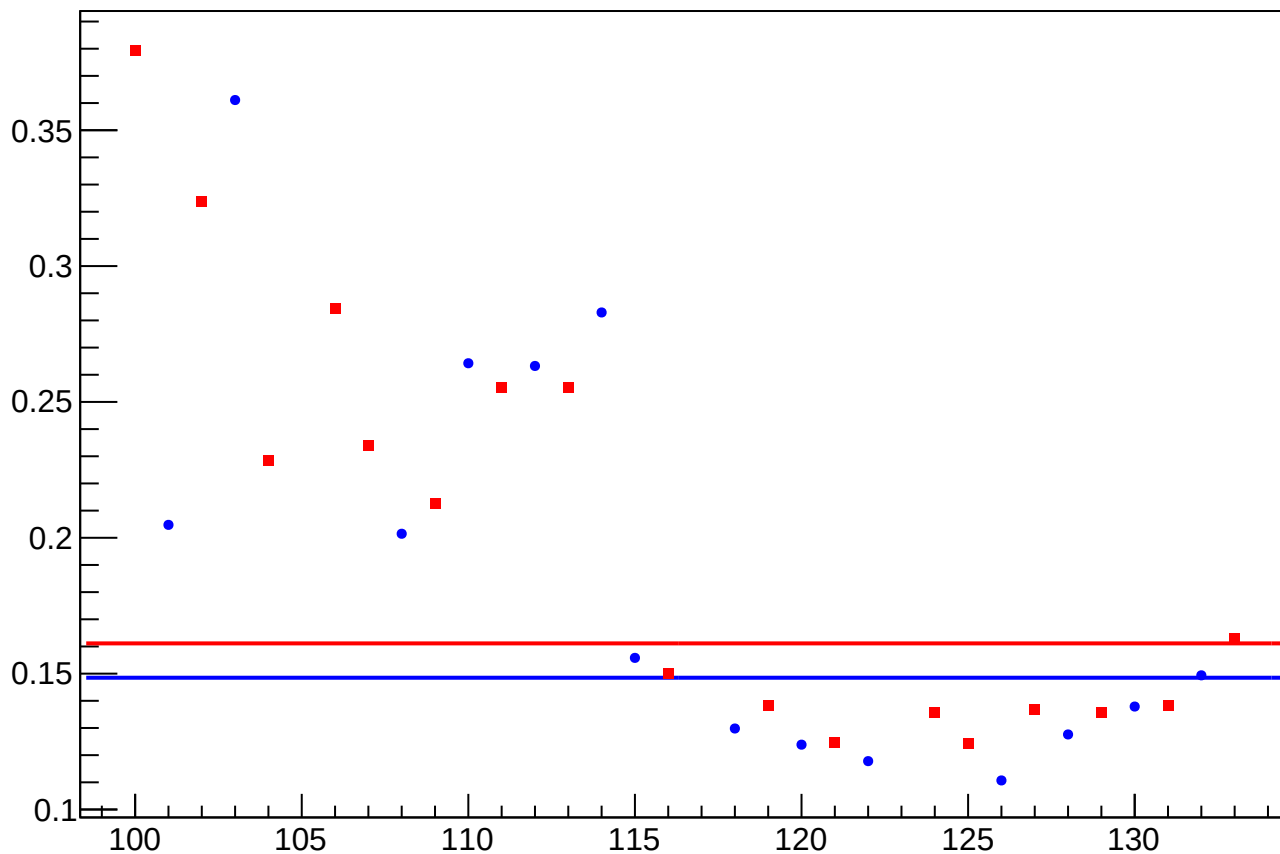
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.093+/-0.000  $\chi^2/\text{NDF}$ : 2150577555.0/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam2\_rms vs Slug



Right In: 0.148 $\pm$ 0.000  $\chi^2$ /NDF: 1092090.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.161 $\pm$ 0.000  $\chi^2$ /NDF: 1066426.7/16

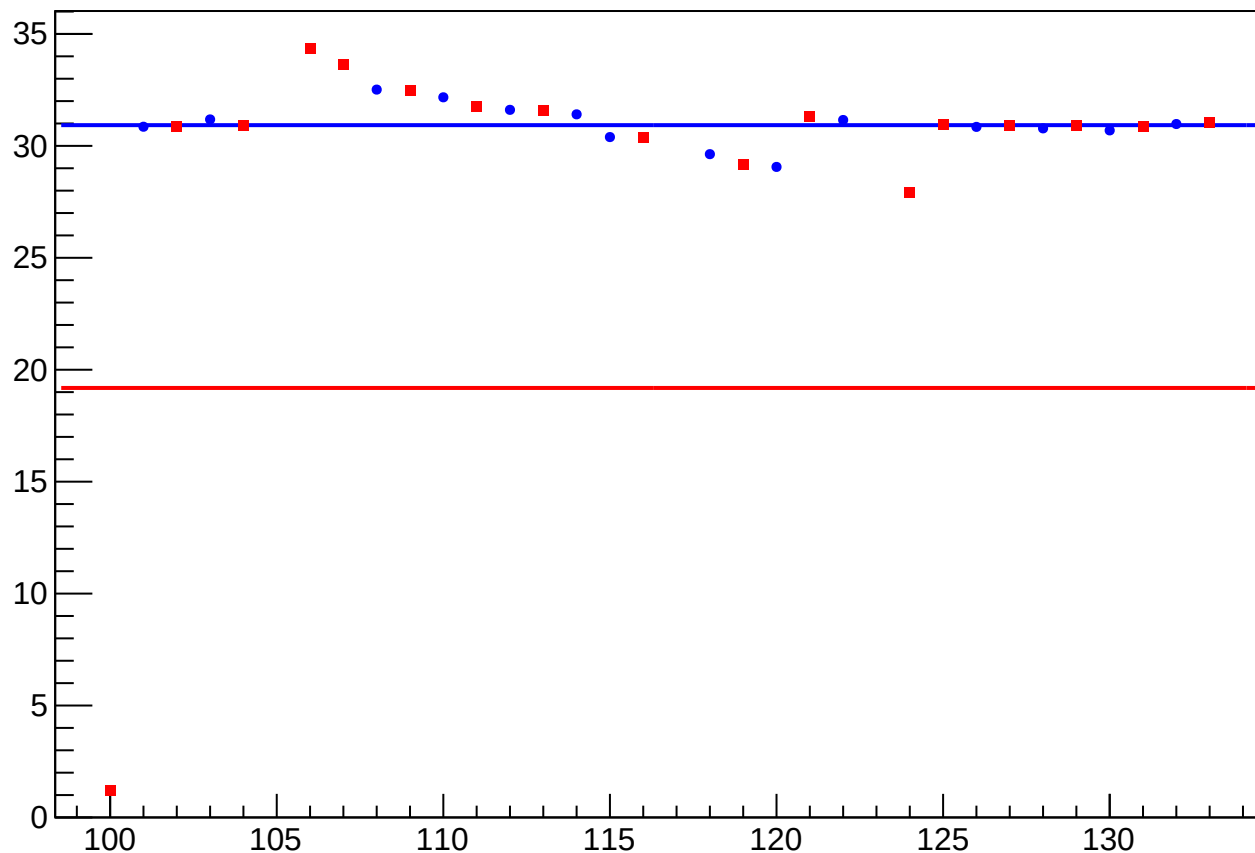
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.155 $\pm$ 0.000  $\chi^2$ /NDF: 2191996.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_sam3\_mean vs Slug



Right In: 30.926+/-0.000  $\chi^2/\text{NDF}$ : 353379377.7/13

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

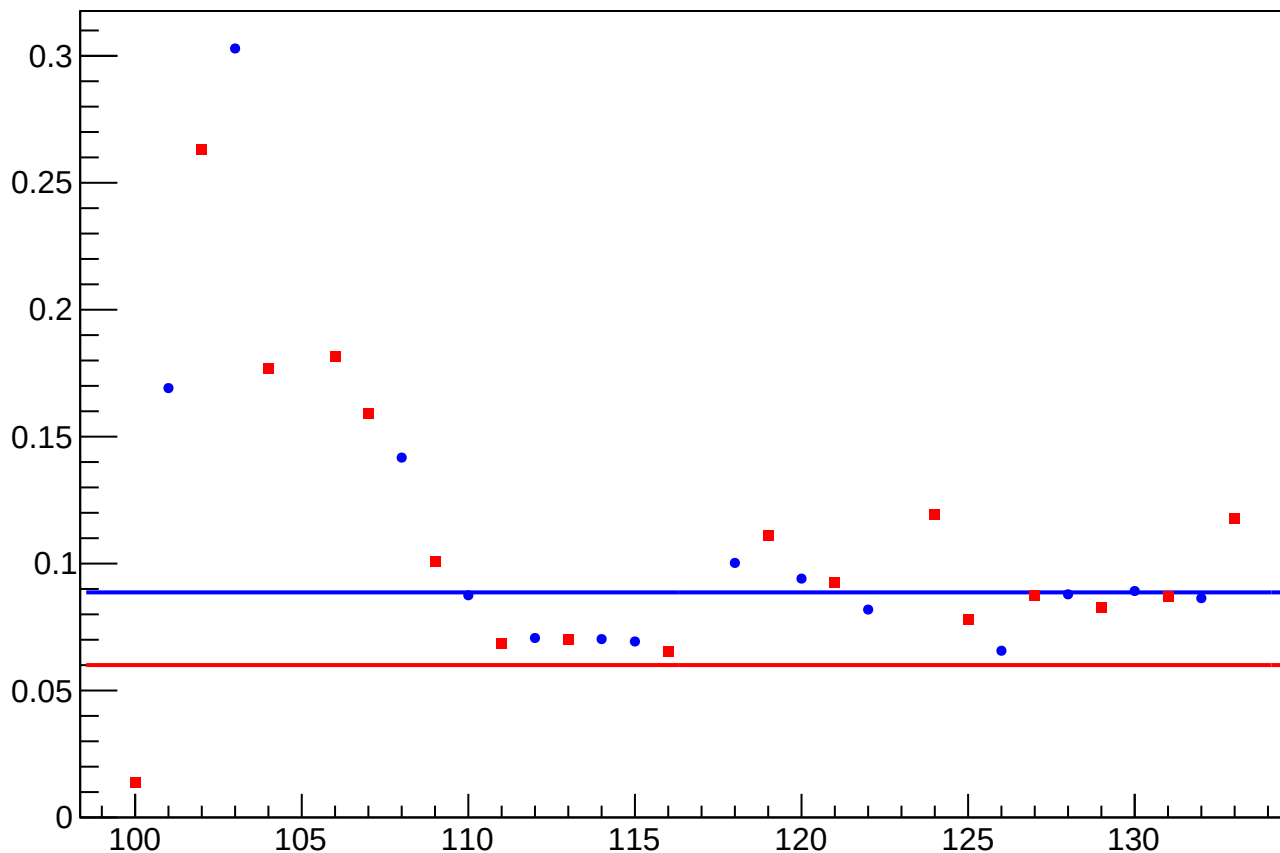
Right Out: 19.186+/-0.000  $\chi^2/\text{NDF}$ : 210819952325.5/16

All: 23.454+/-0.000  $\chi^2/\text{NDF}$ : 260187228626.

- 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\_sam3\_rms vs Slug



Right In: 0.089+/-0.000  $\chi^2/\text{NDF}$ : 1094706.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.060+/-0.000  $\chi^2/\text{NDF}$ : 3984028.0/16

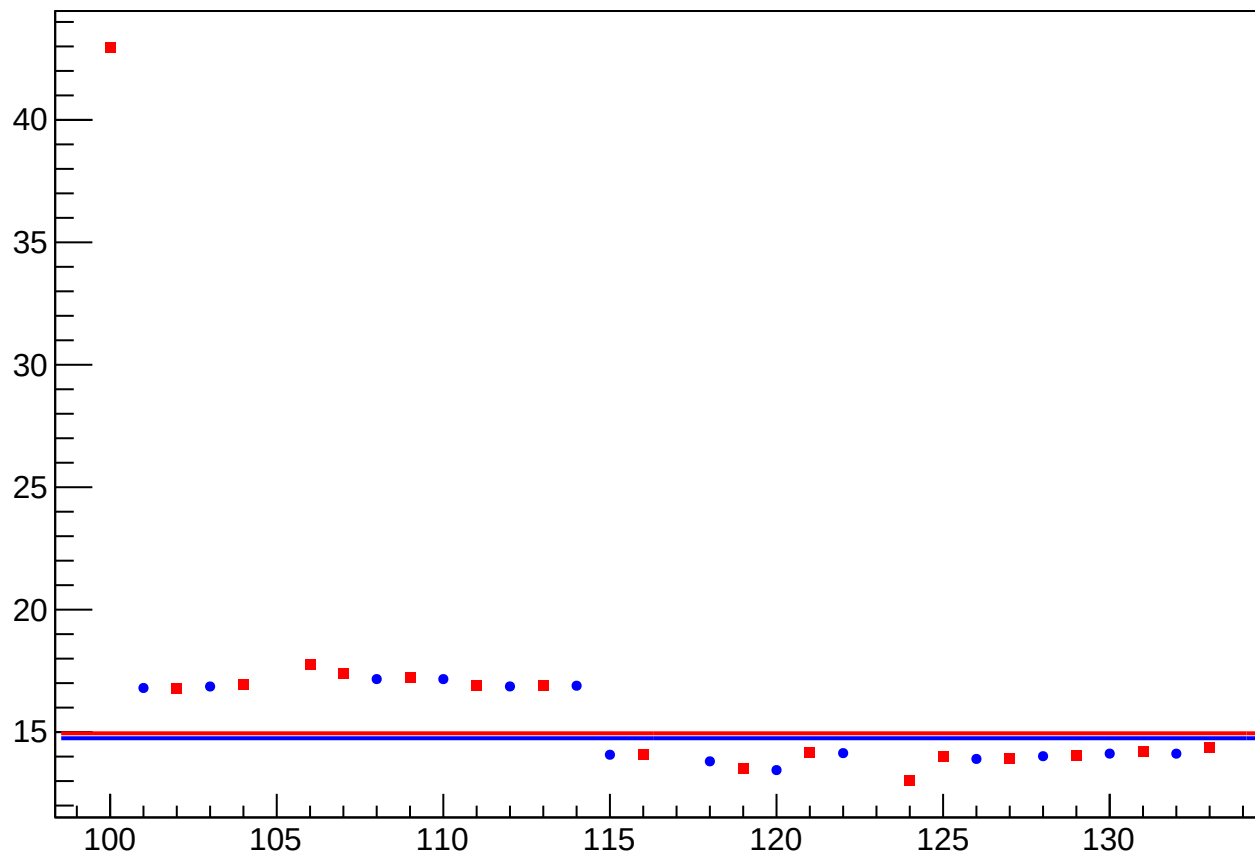
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.070+/-0.000  $\chi^2/\text{NDF}$ : 5661714.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam4\_mean vs Slug



Right In: 14.749+/-0.000  $\chi^2/\text{NDF}$ : 1168054219.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14.951+/-0.000  $\chi^2/\text{NDF}$ : 1706723989.2/16

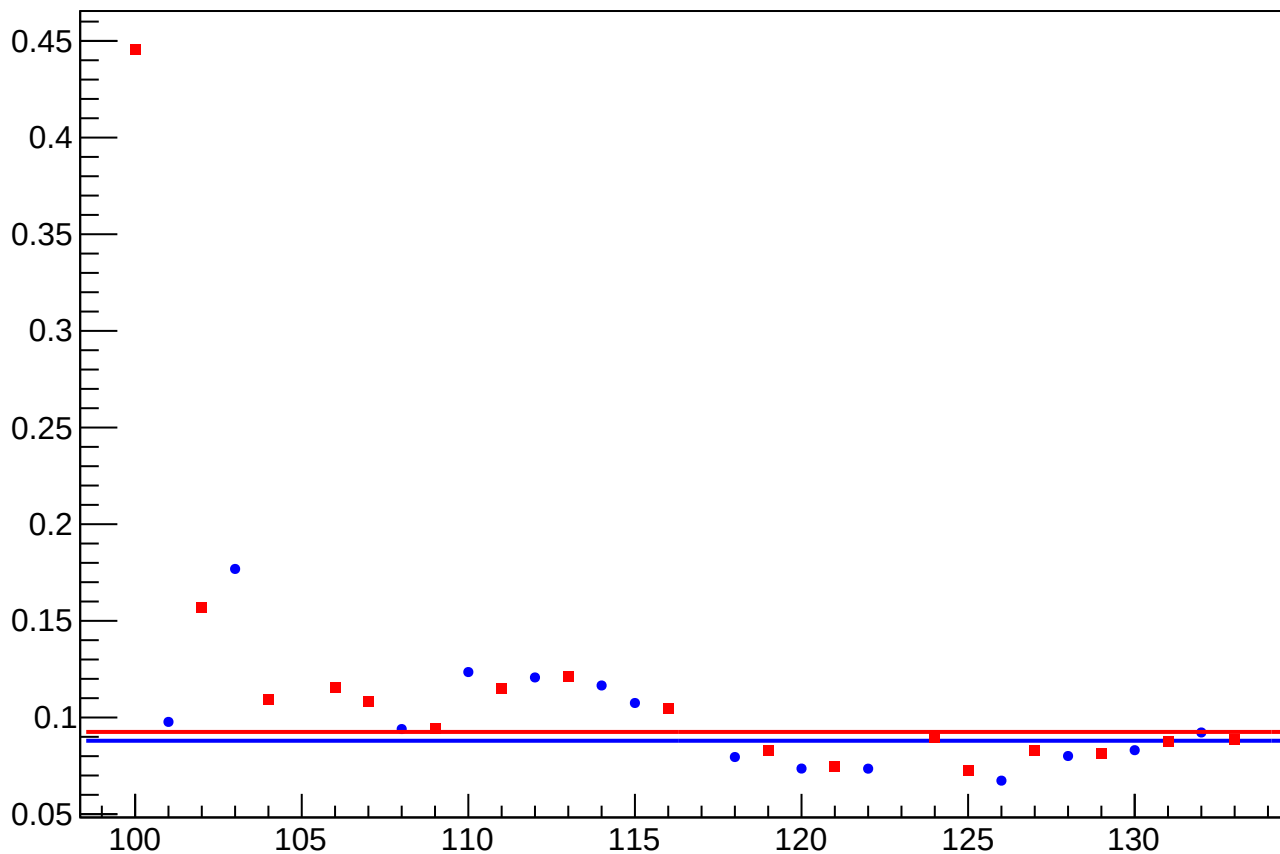
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14.851+/-0.000  $\chi^2/\text{NDF}$ : 2888062342.9/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam4\_rms vs Slug



Right In: 0.088+/-0.000  $\chi^2/\text{NDF}$ : 593637.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.093+/-0.000  $\chi^2/\text{NDF}$ : 553735.5/16

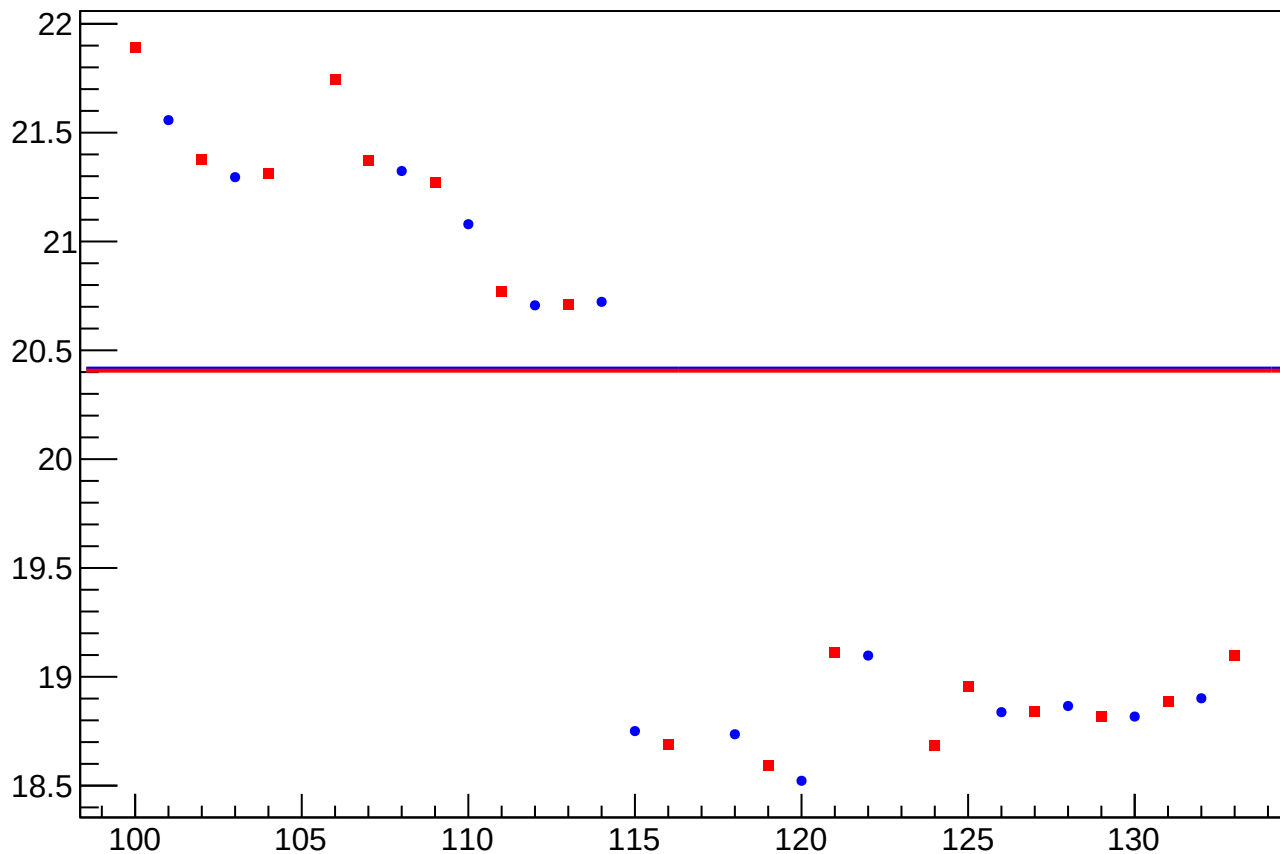
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.090+/-0.000  $\chi^2/\text{NDF}$ : 1160949.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam5\_mean vs Slug



Right In: 20.416+/-0.000  $\chi^2/\text{NDF}$ : 7528314541.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.407+/-0.000  $\chi^2/\text{NDF}$ : 8250475569.8/16

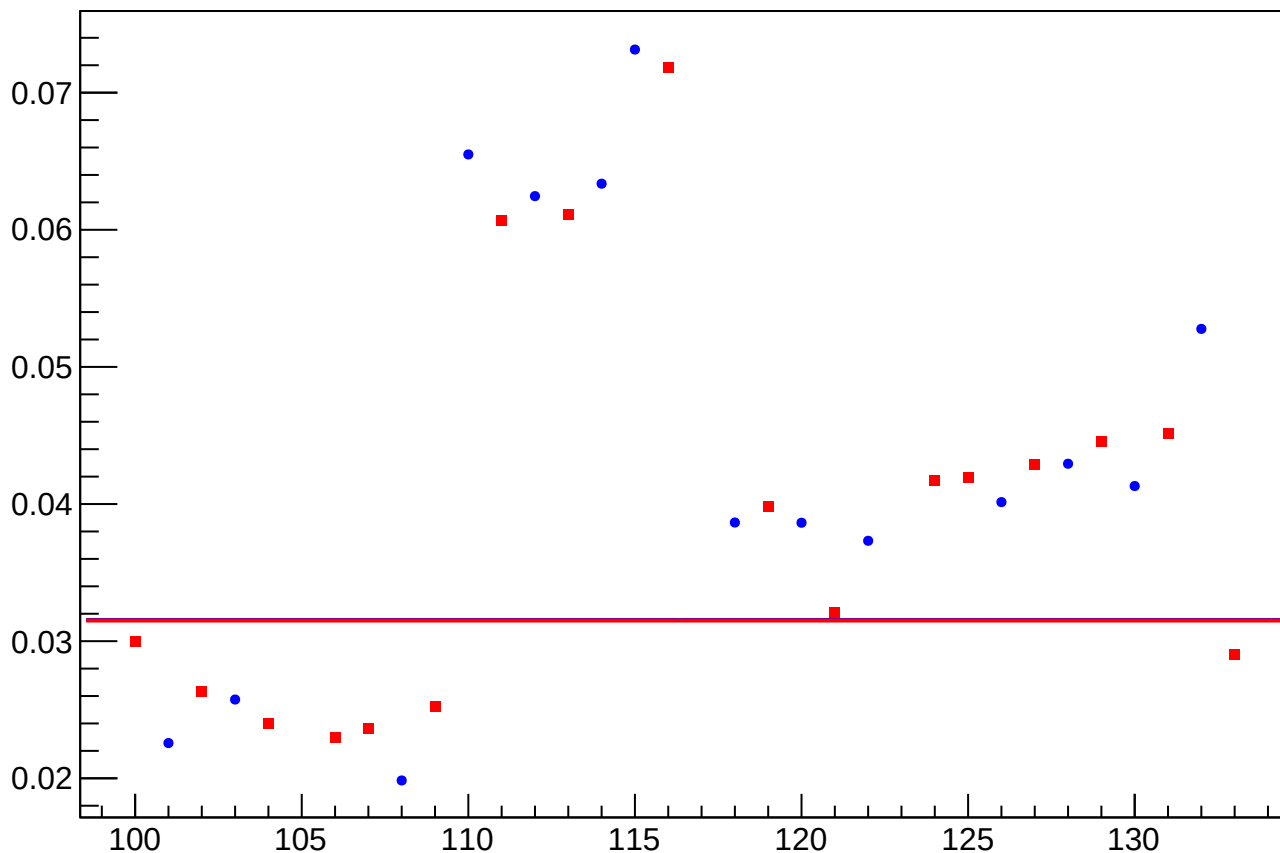
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.411+/-0.000  $\chi^2/\text{NDF}$ : 15779023243.2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam5\_rms vs Slug



Right In: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 1379932.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 1173158.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

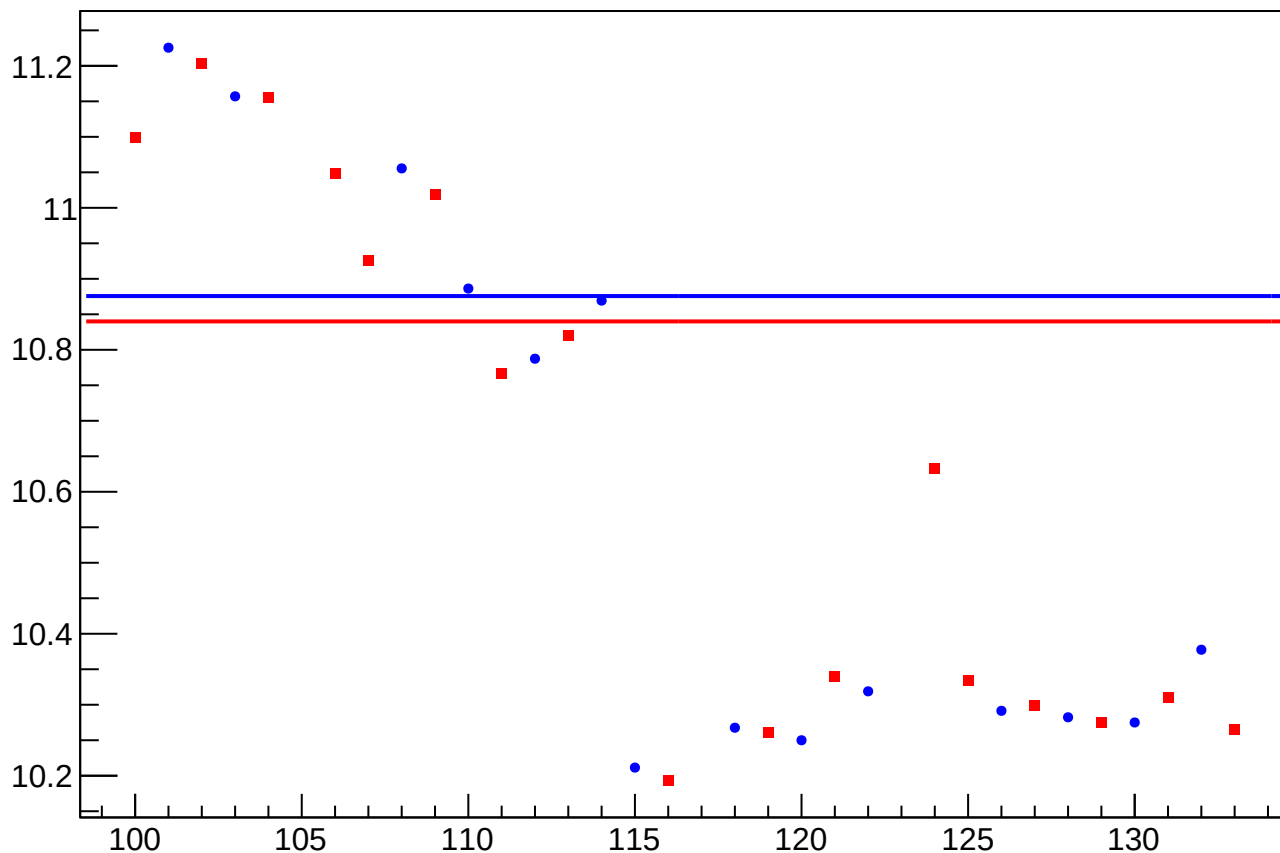
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 2553097.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_sam6\_mean vs Slug



Right In: 10.876+/-0.000  $\chi^2/\text{NDF}$ : 3555372175.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.840+/-0.000  $\chi^2/\text{NDF}$ : 2983871417.0/16

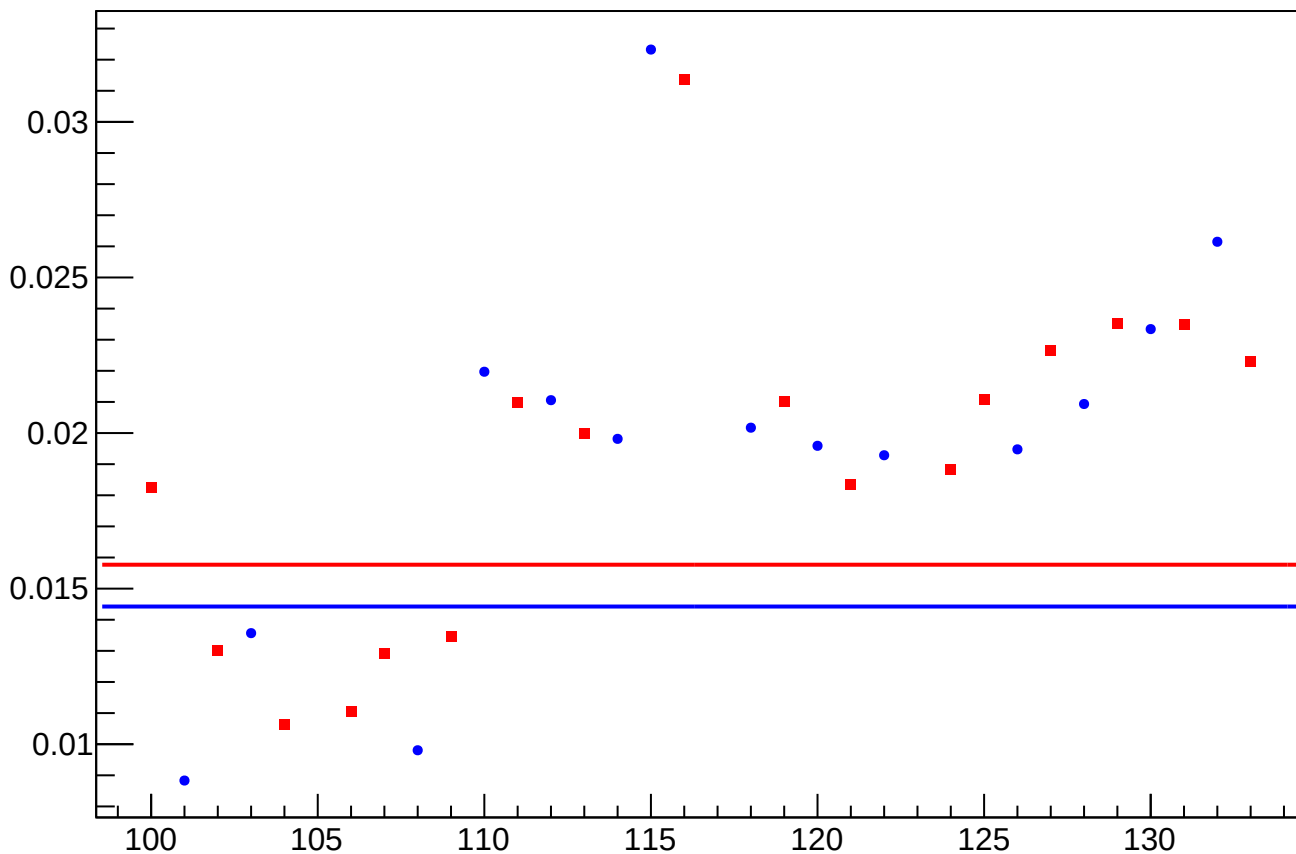
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.858+/-0.000  $\chi^2/\text{NDF}$ : 6553460222.1/3

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam6\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 1464686.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 1058527.0/16

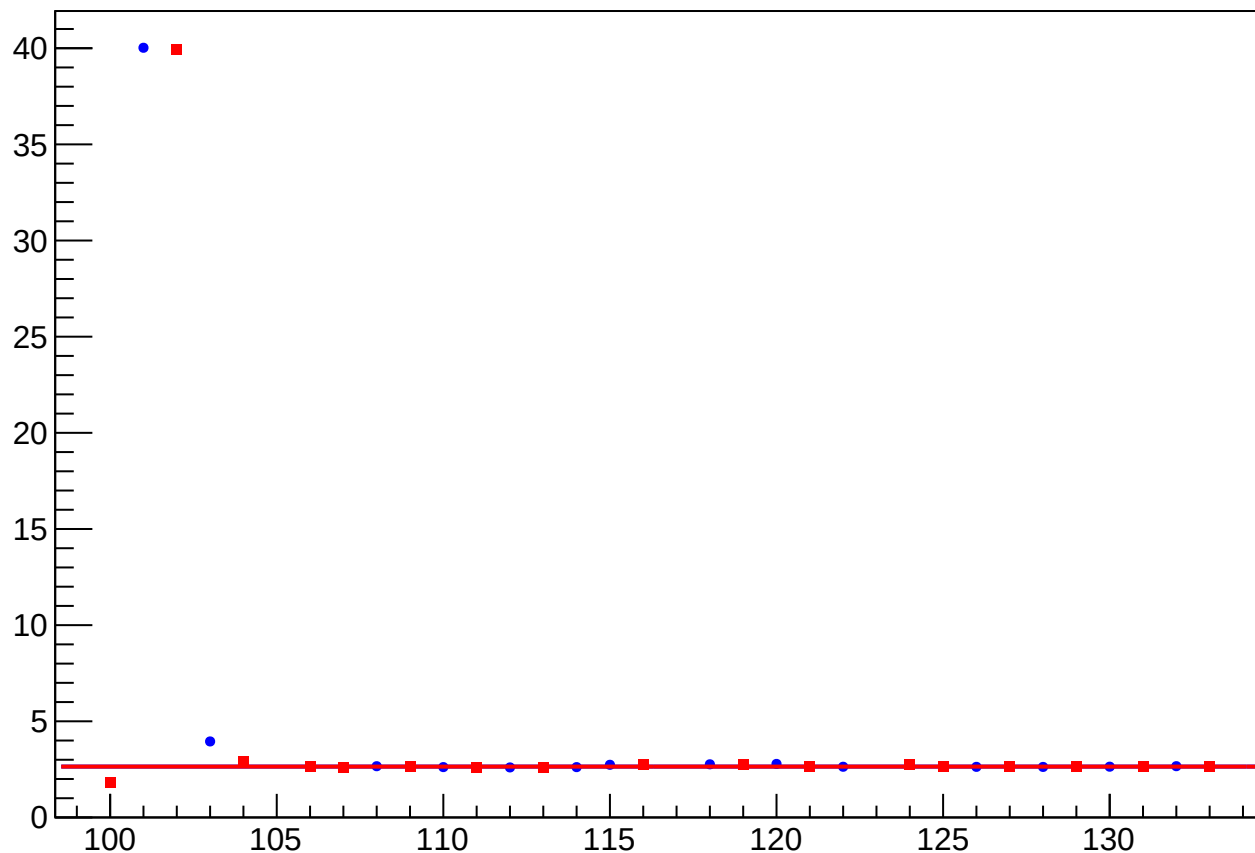
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 2563498.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam7\_mean vs Slug



Right In: 2.646+/-0.000  $\chi^2/\text{NDF}$ : 64648025390.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.644+/-0.000  $\chi^2/\text{NDF}$ : 63180860093.8/16

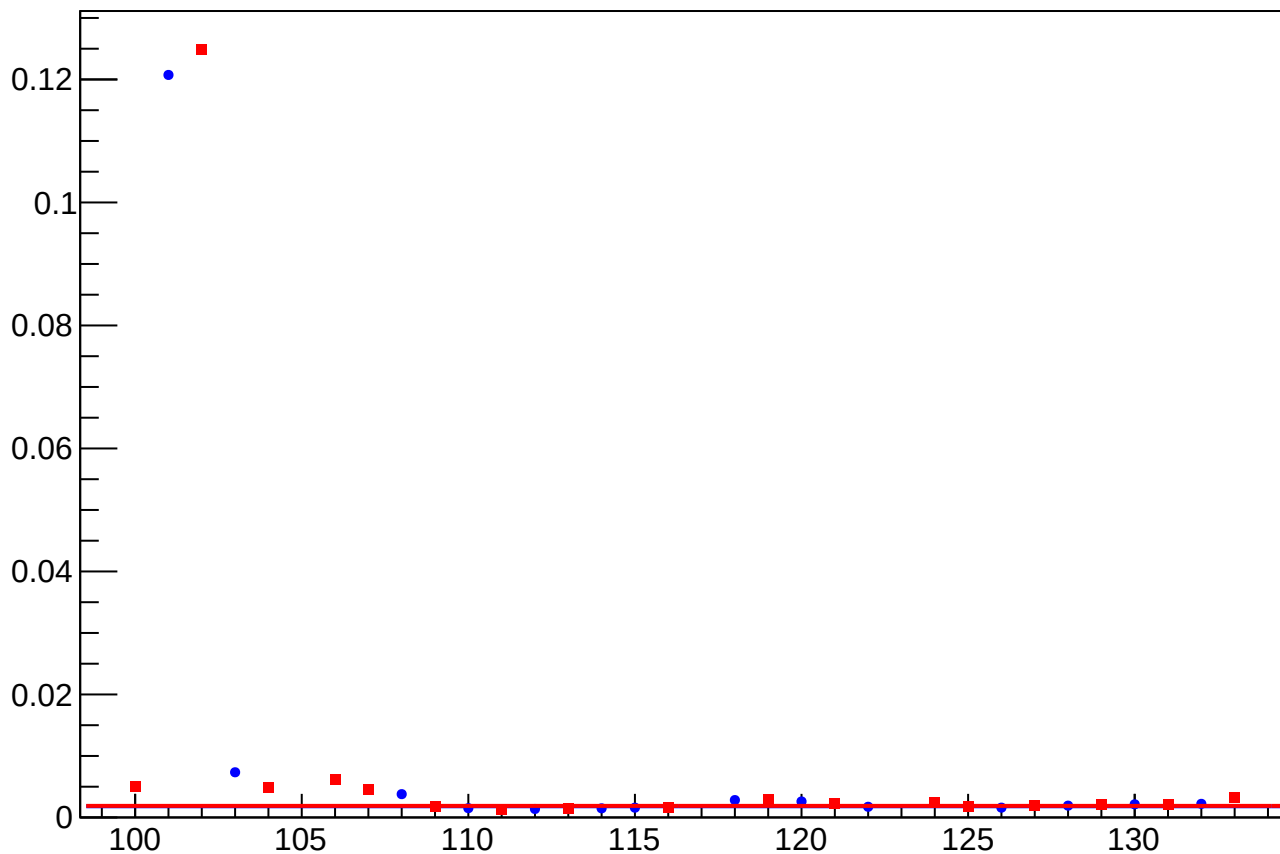
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.645+/-0.000  $\chi^2/\text{NDF}$ : 127830381362.7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam7\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1820875.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2517343.3/16

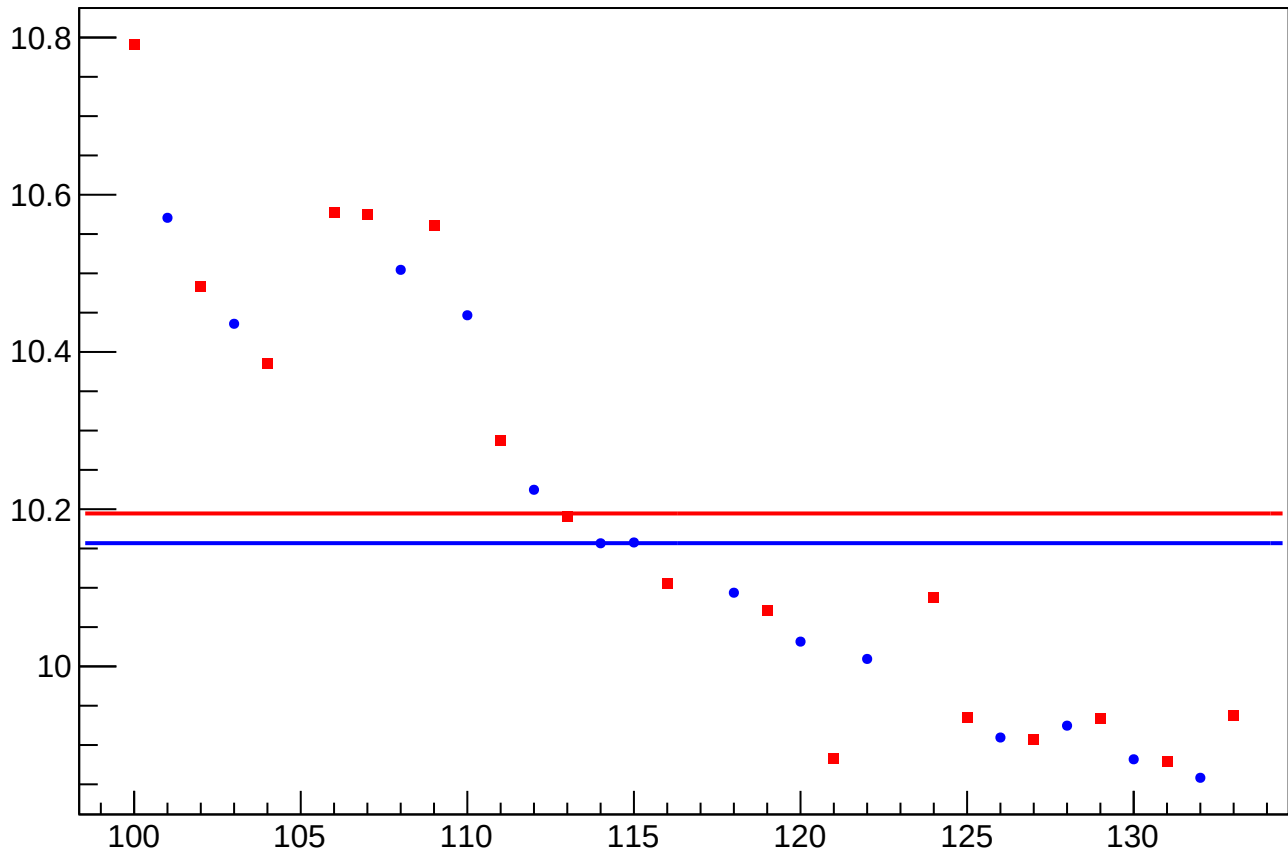
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4343245.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam8\_mean vs Slug



Right In: 10.157+/-0.000  $\chi^2/\text{NDF}$ : 6972083493.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.195+/-0.000  $\chi^2/\text{NDF}$ : 7937666139.8/16

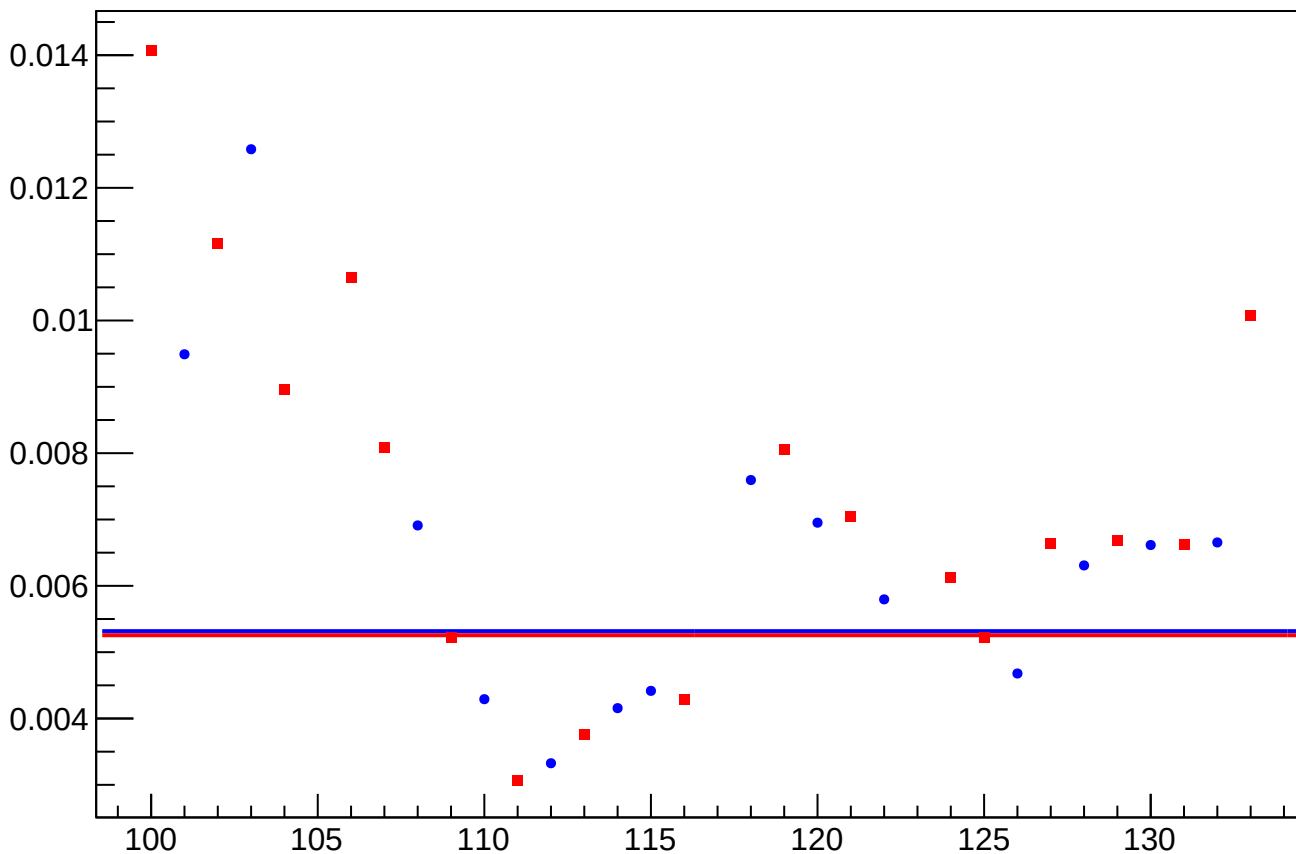
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.177+/-0.000  $\chi^2/\text{NDF}$ : 15028827368.7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_sam8\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1245621.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1780088.4/16

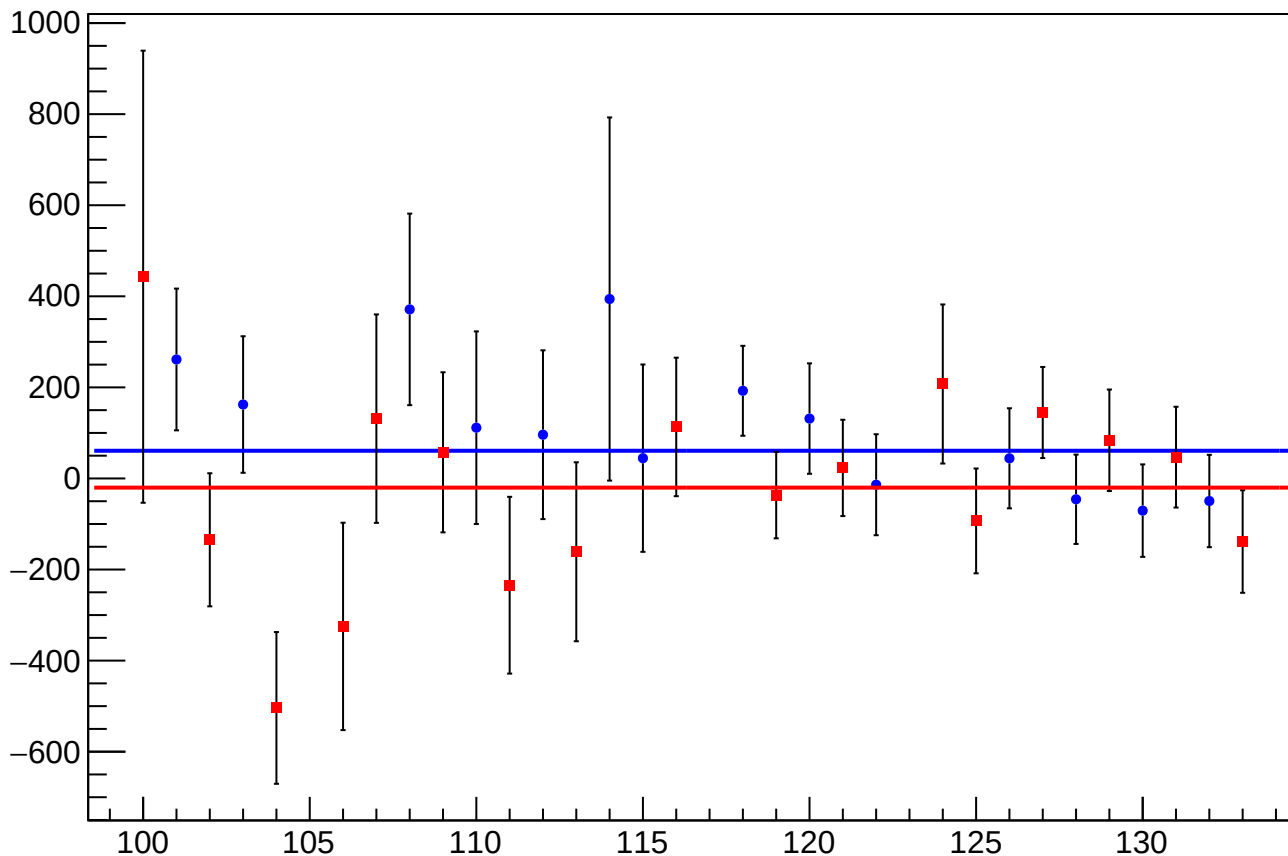
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 3026343.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_mean vs Slug



Right In: 60.823+/-34.862  $\chi^2/\text{NDF}$ : 11.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20.126+/-33.277  $\chi^2/\text{NDF}$ : 22.2/16

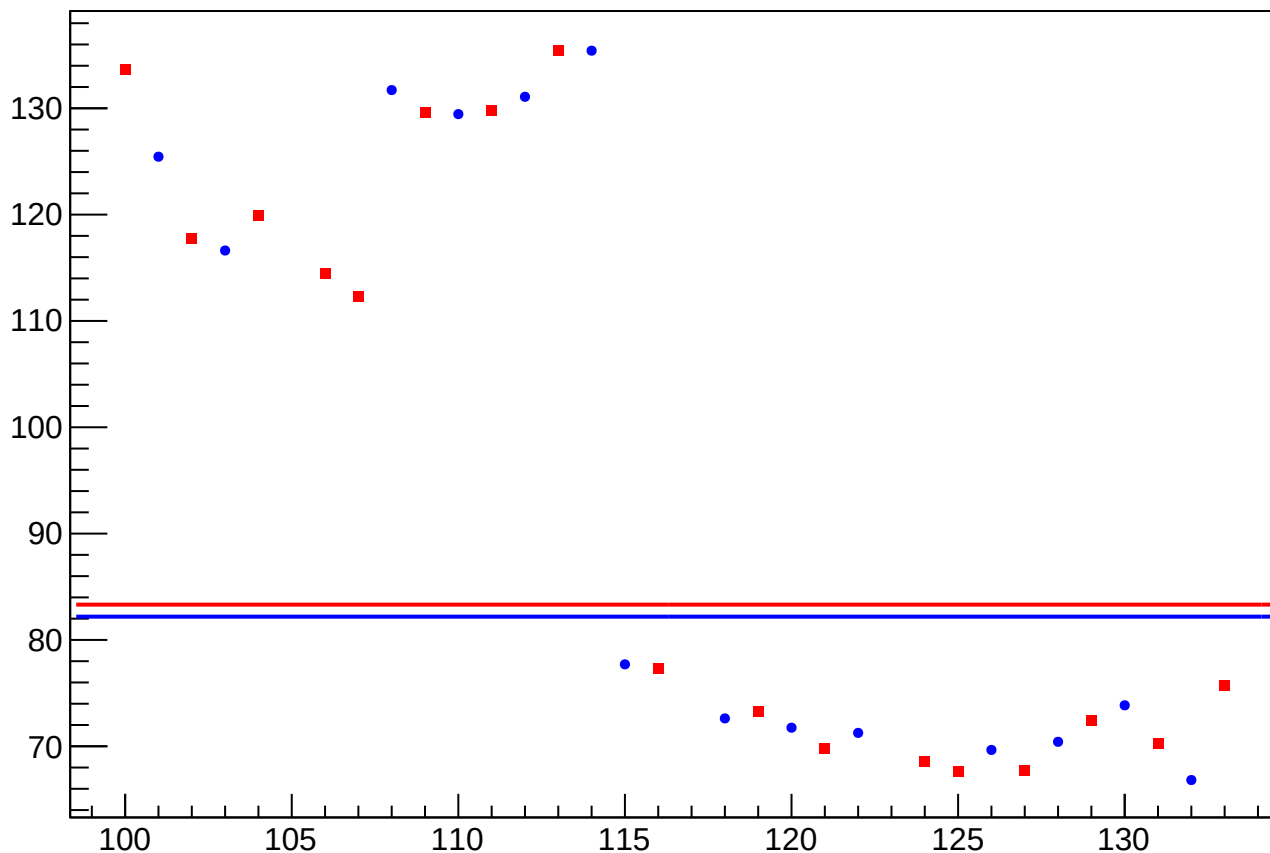
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.466+/-24.071  $\chi^2/\text{NDF}$ : 36.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_rms vs Slug



Right In: 82.190+/-0.025  $\chi^2/\text{NDF}$ : 813884.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 83.321+/-0.024  $\chi^2/\text{NDF}$ : 906314.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

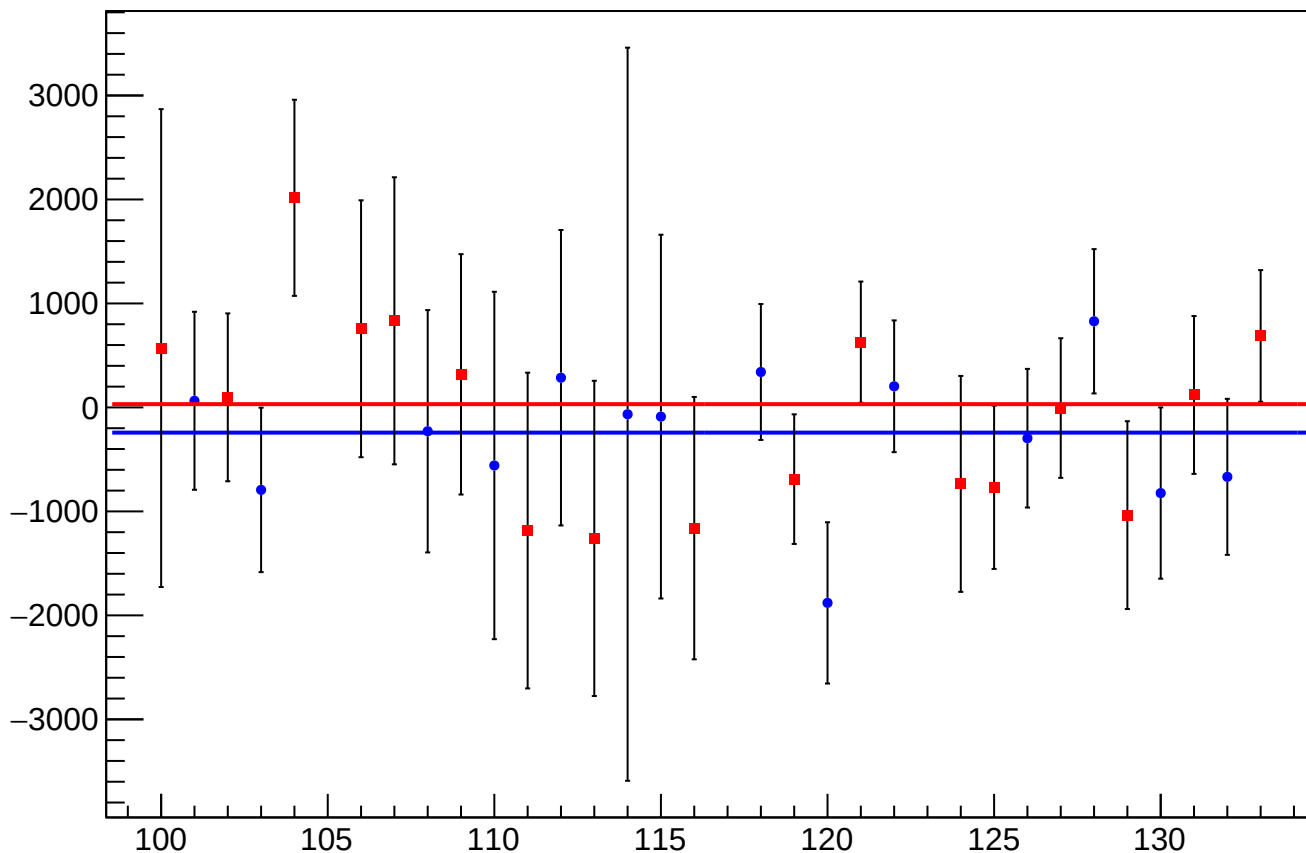
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 82.782+/-0.017  $\chi^2/\text{NDF}$ : 1721299.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam1\_reg\_correction\_mean vs Slug



Right In: -242.325+/-229.252  $\chi^2$ /NDF: 9.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 31.348+/-213.124  $\chi^2$ /NDF: 13.9/16

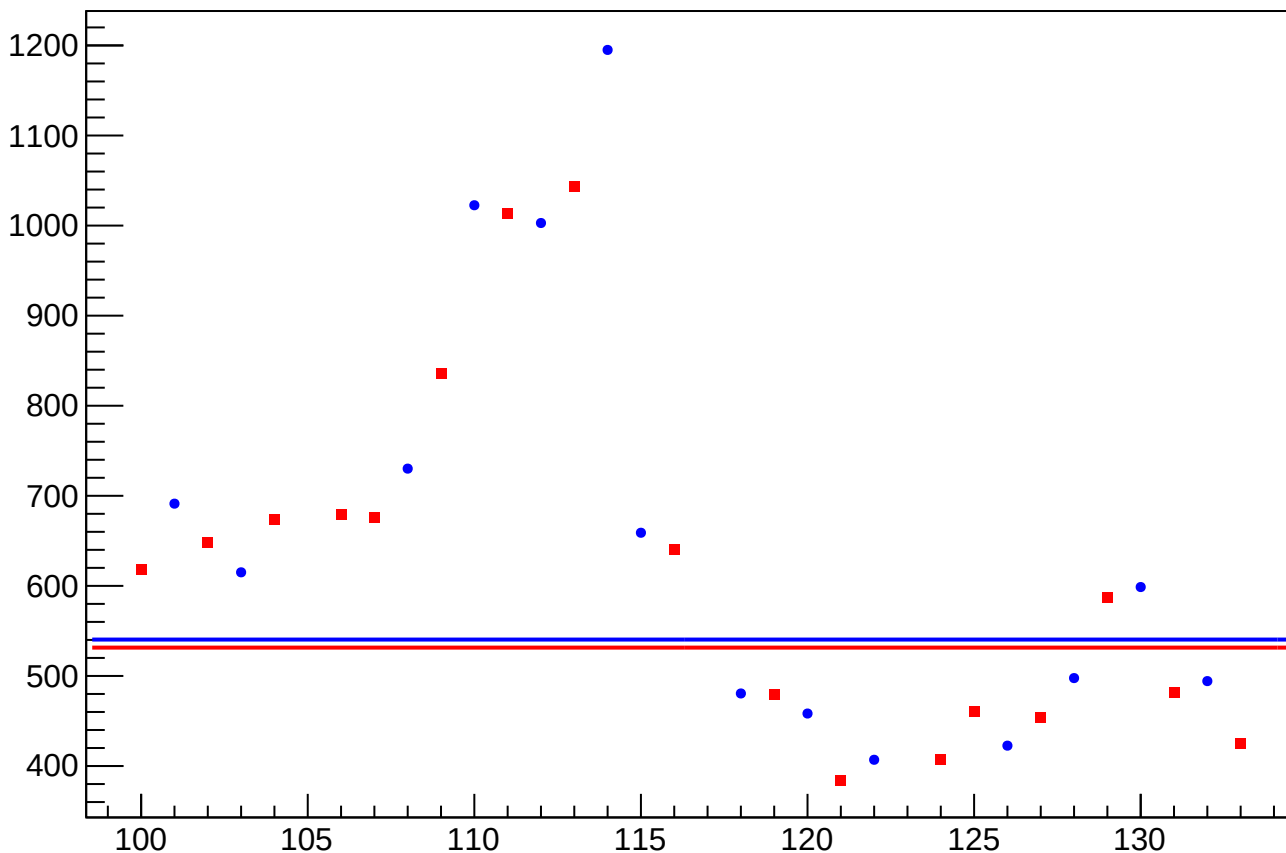
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -95.524+/-156.092  $\chi^2$ /NDF: 24.5/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_reg\_correction\_rms vs Slug



Right In: 540.398+/-0.162  $\chi^2/\text{NDF}$ : 805092.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 531.467+/-0.151  $\chi^2/\text{NDF}$ : 1009747.3/16

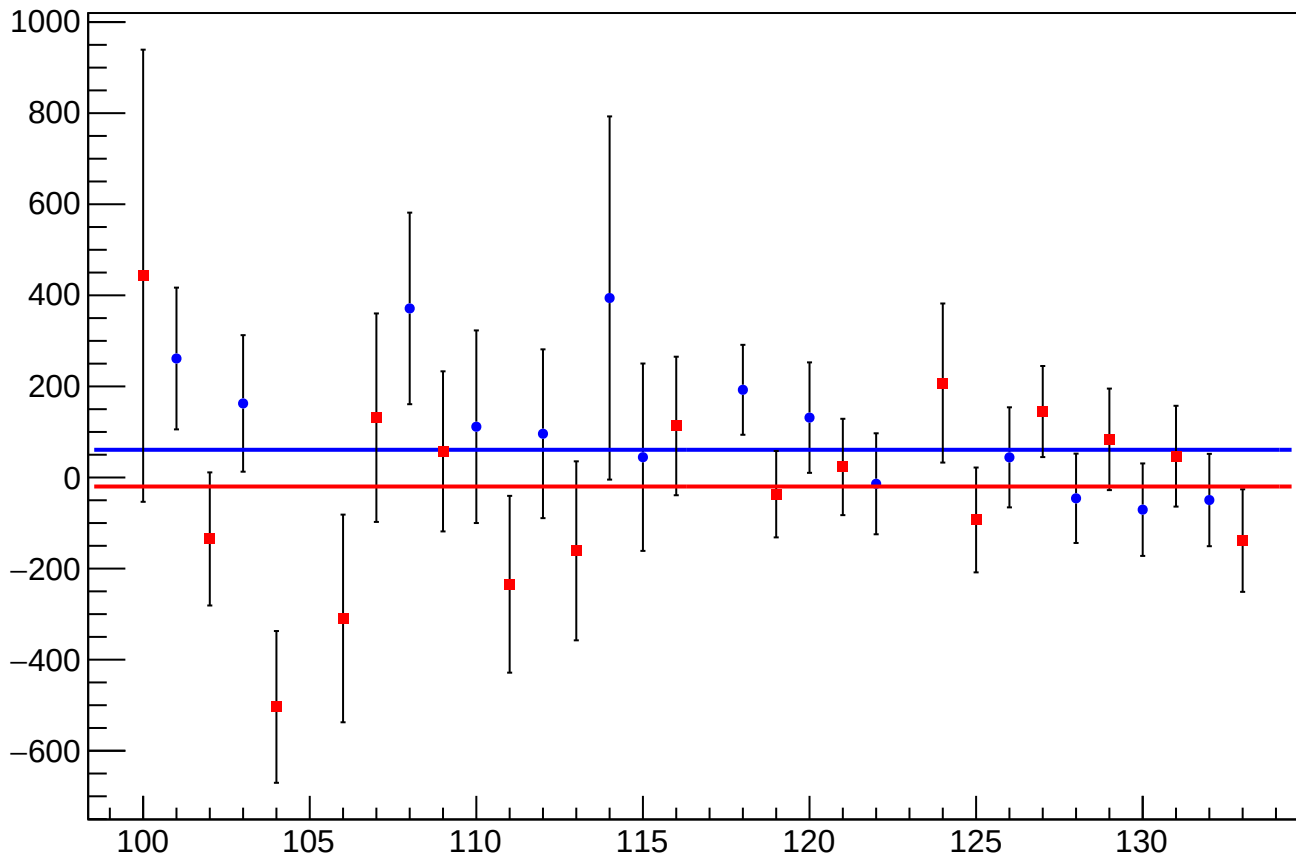
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 535.607+/-0.110  $\chi^2/\text{NDF}$ : 1816467.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam1\_mean vs Slug



Right In: 60.841+/-34.862  $\chi^2/\text{NDF}$ : 11.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -19.790+/-33.278  $\chi^2/\text{NDF}$ : 22.0/16

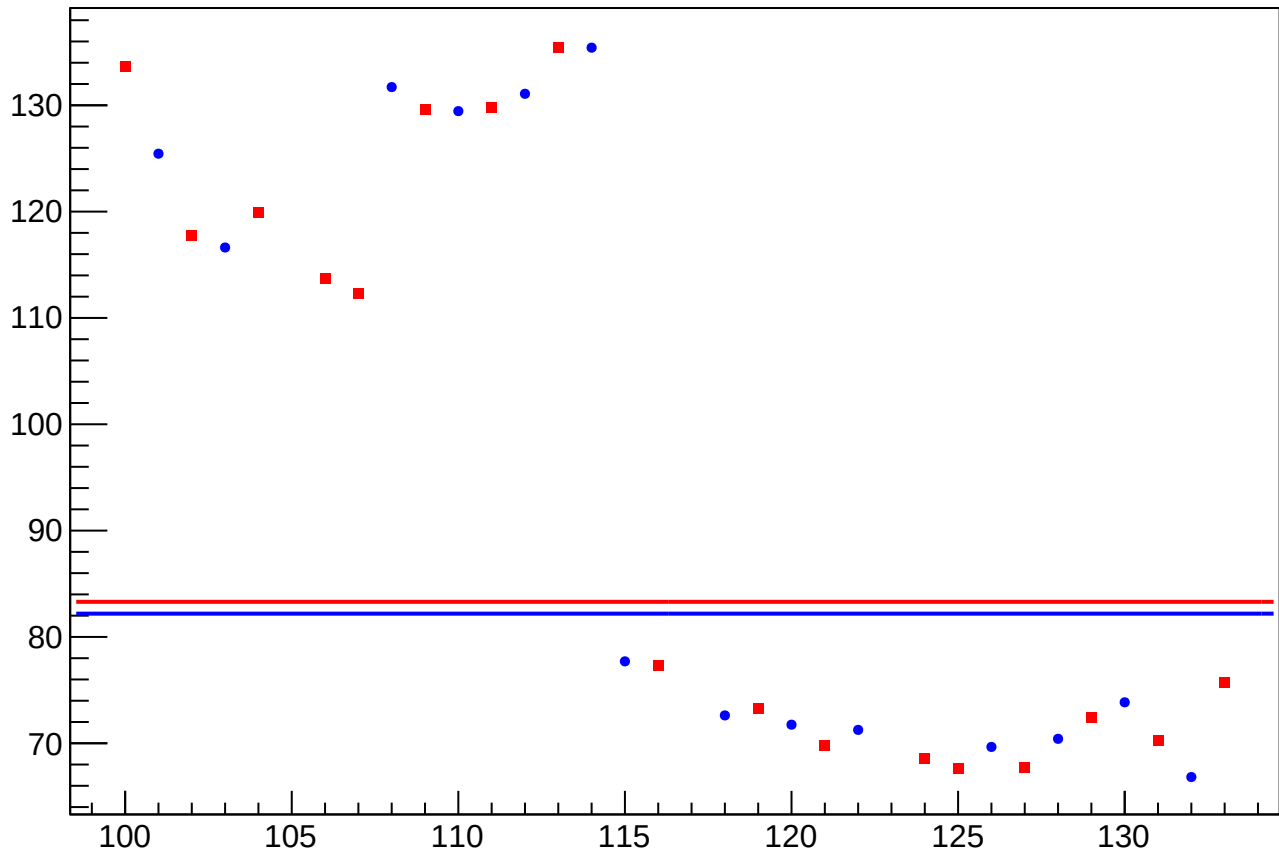
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.651+/-24.072  $\chi^2/\text{NDF}$ : 36.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam1\_rms vs Slug



Right In: 82.190+/-0.025  $\chi^2/\text{NDF}$ : 813884.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 83.304+/-0.024  $\chi^2/\text{NDF}$ : 904526.2/16

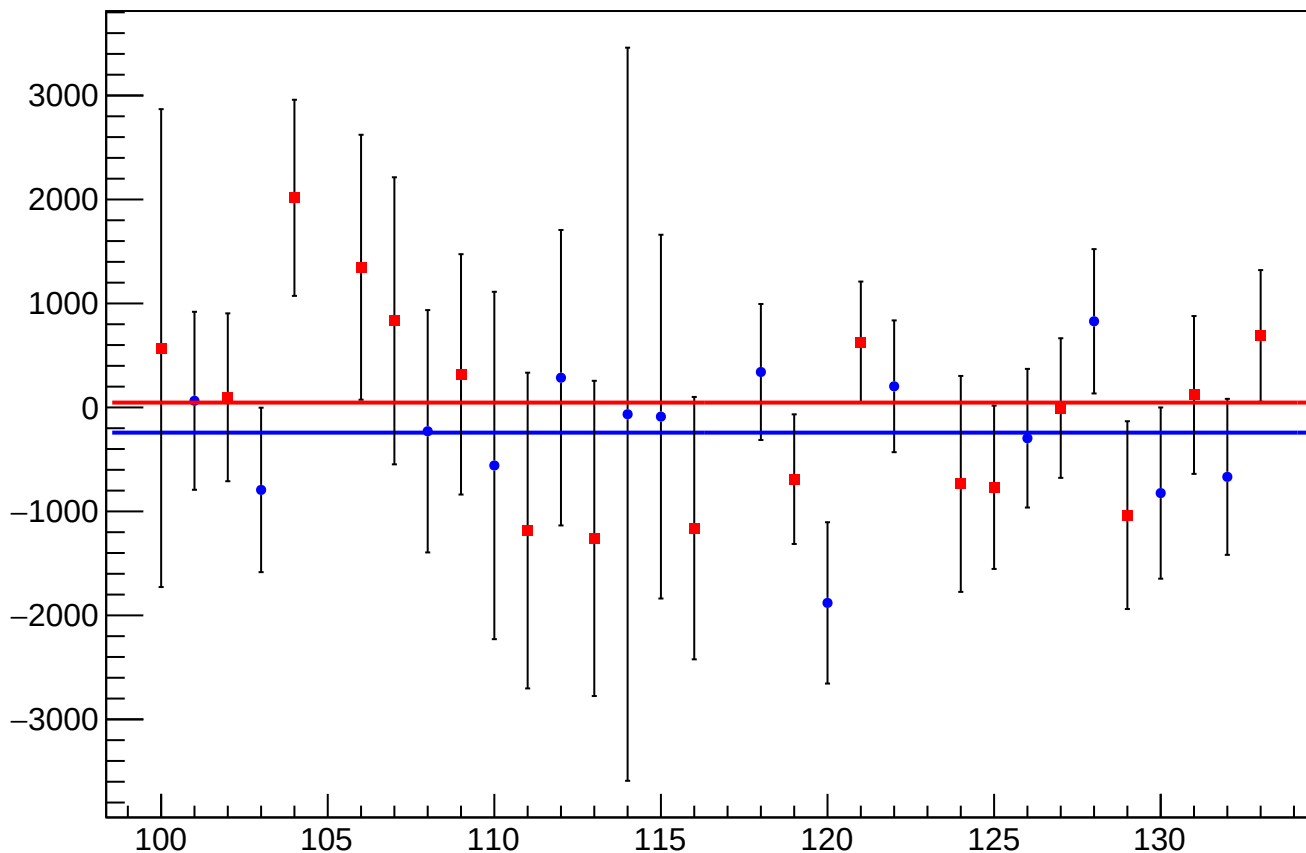
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 82.773+/-0.017  $\chi^2/\text{NDF}$ : 1719478.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_cor\_correction\_mean vs Slug



Right In: -242.320 $\pm$ 229.252  $\chi^2$ /NDF: 9.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 46.672 $\pm$ 213.315  $\chi^2$ /NDF: 14.7/16

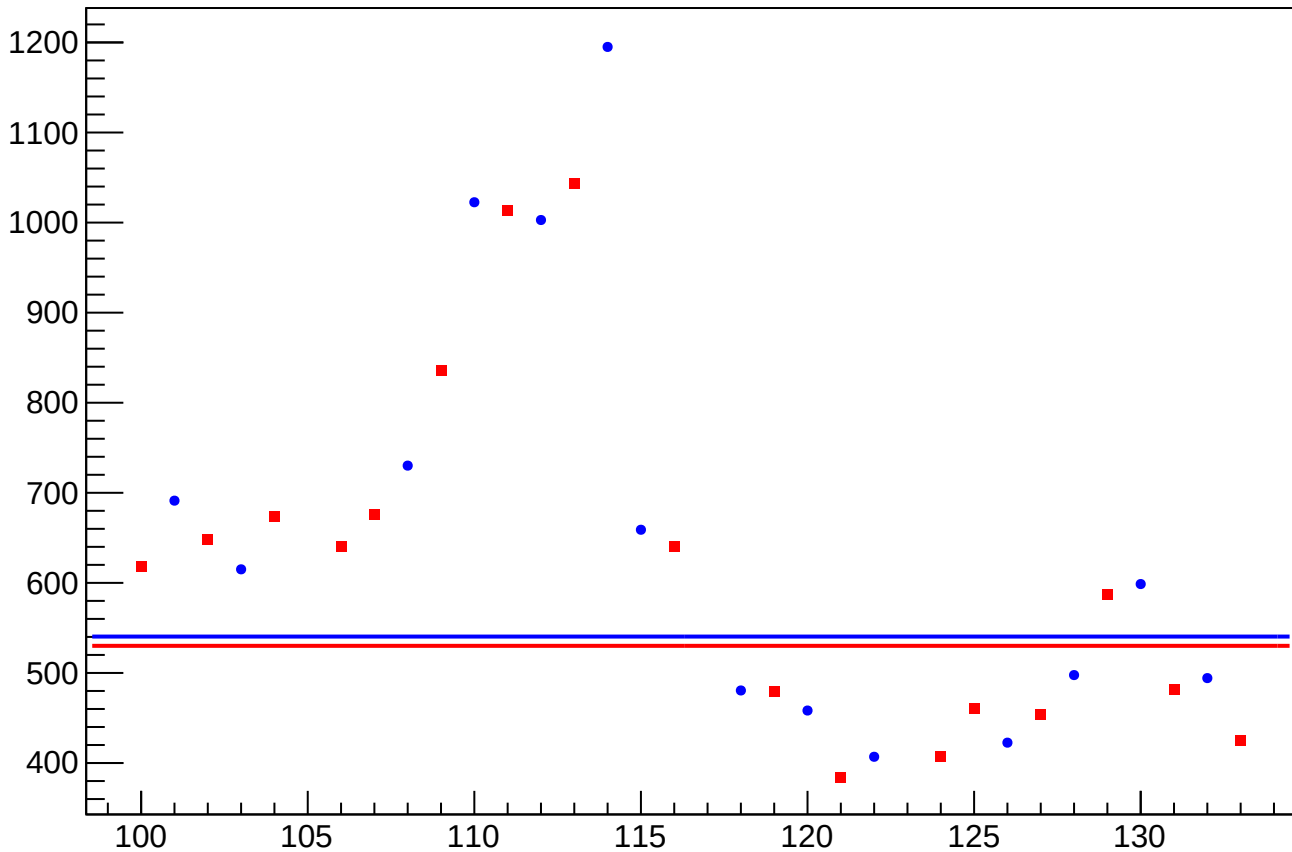
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -87.430 $\pm$ 156.167  $\chi^2$ /NDF: 25.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_cor\_correction\_rms vs Slug



Right In: 540.398+/-0.162  $\chi^2/\text{NDF}$ : 805092.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 530.102+/-0.151  $\chi^2/\text{NDF}$ : 995515.0/16

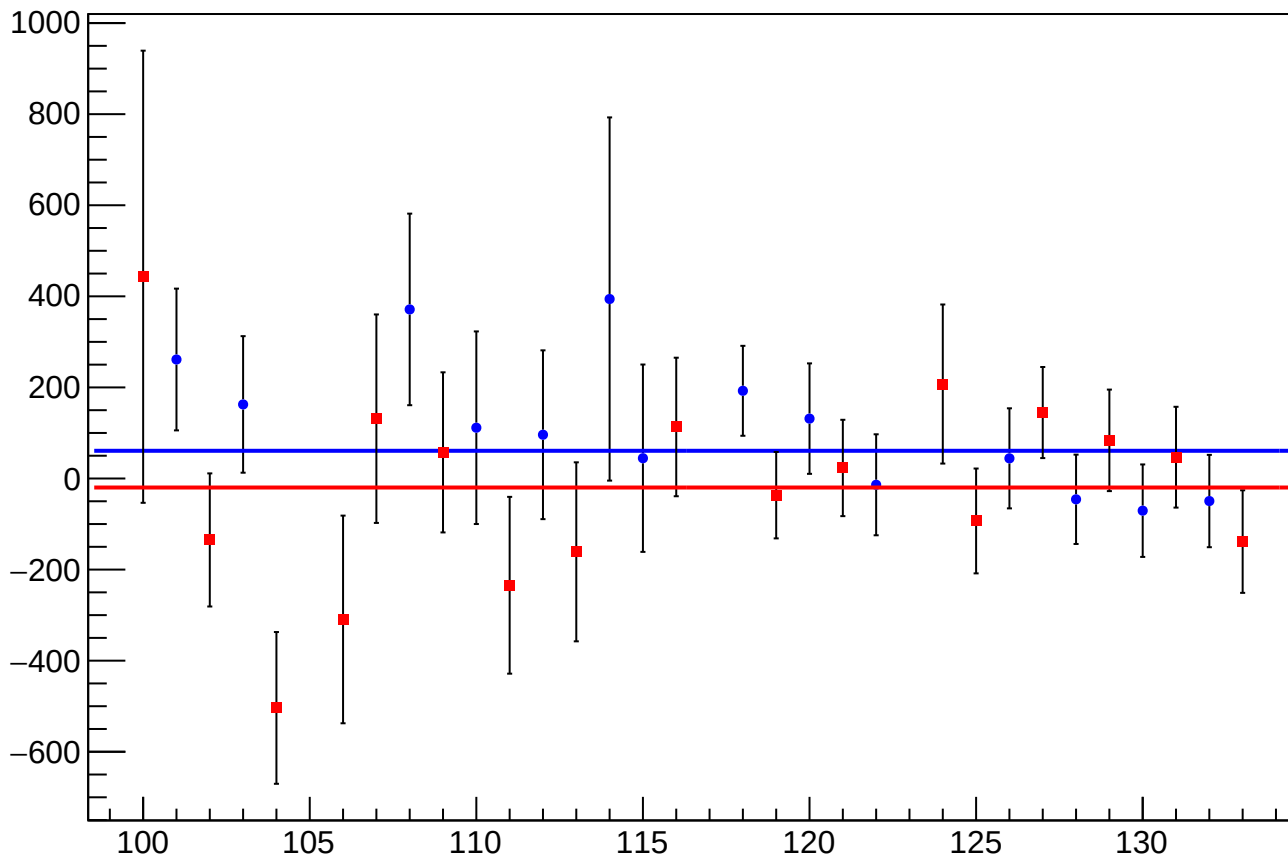
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 534.880+/-0.110  $\chi^2/\text{NDF}$ : 1802769.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam1\_mean vs Slug



Right In: 60.841+/-34.862  $\chi^2/\text{NDF}$ : 11.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -19.790+/-33.278  $\chi^2/\text{NDF}$ : 22.0/16

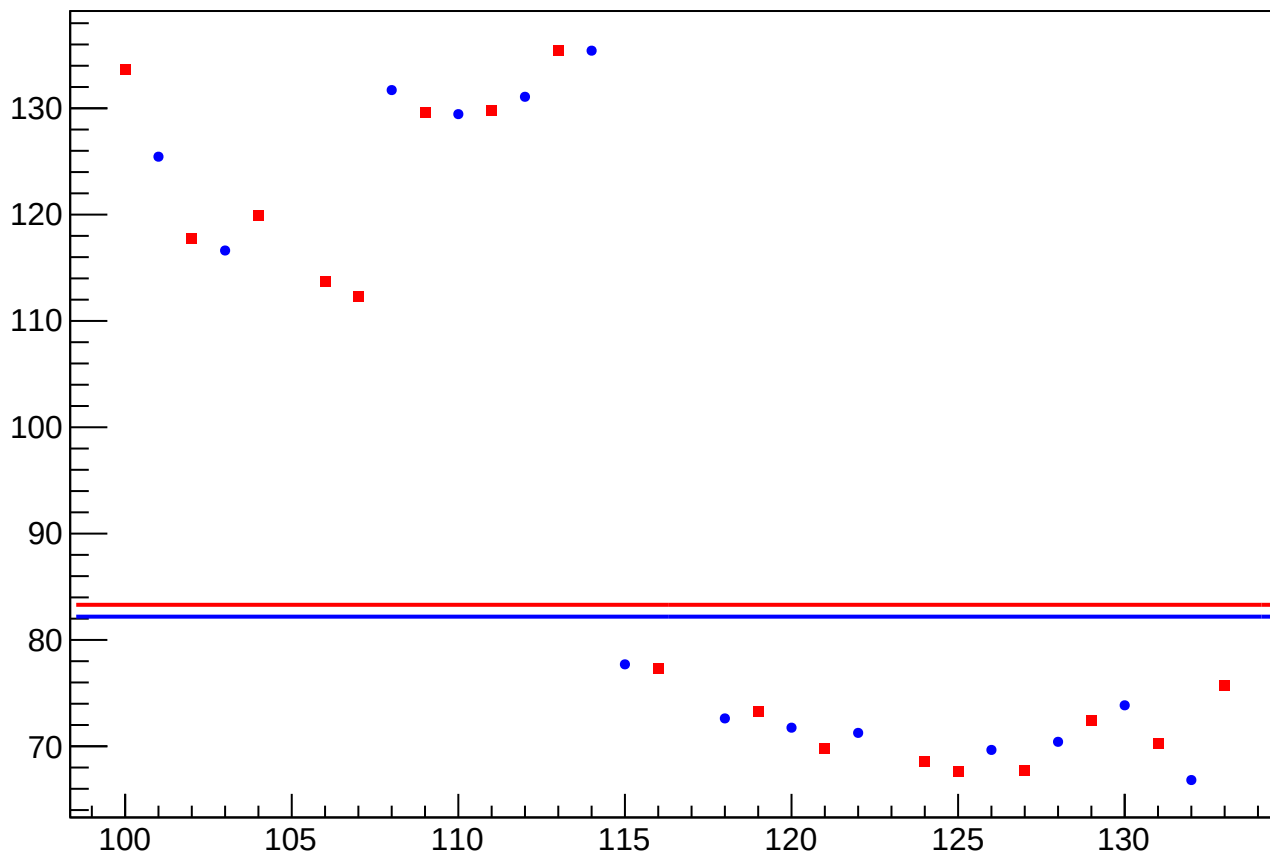
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.651+/-24.072  $\chi^2/\text{NDF}$ : 36.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam1\_rms vs Slug



Right In: 82.190+/-0.025  $\chi^2/\text{NDF}$ : 813884.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 83.304+/-0.024  $\chi^2/\text{NDF}$ : 904526.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

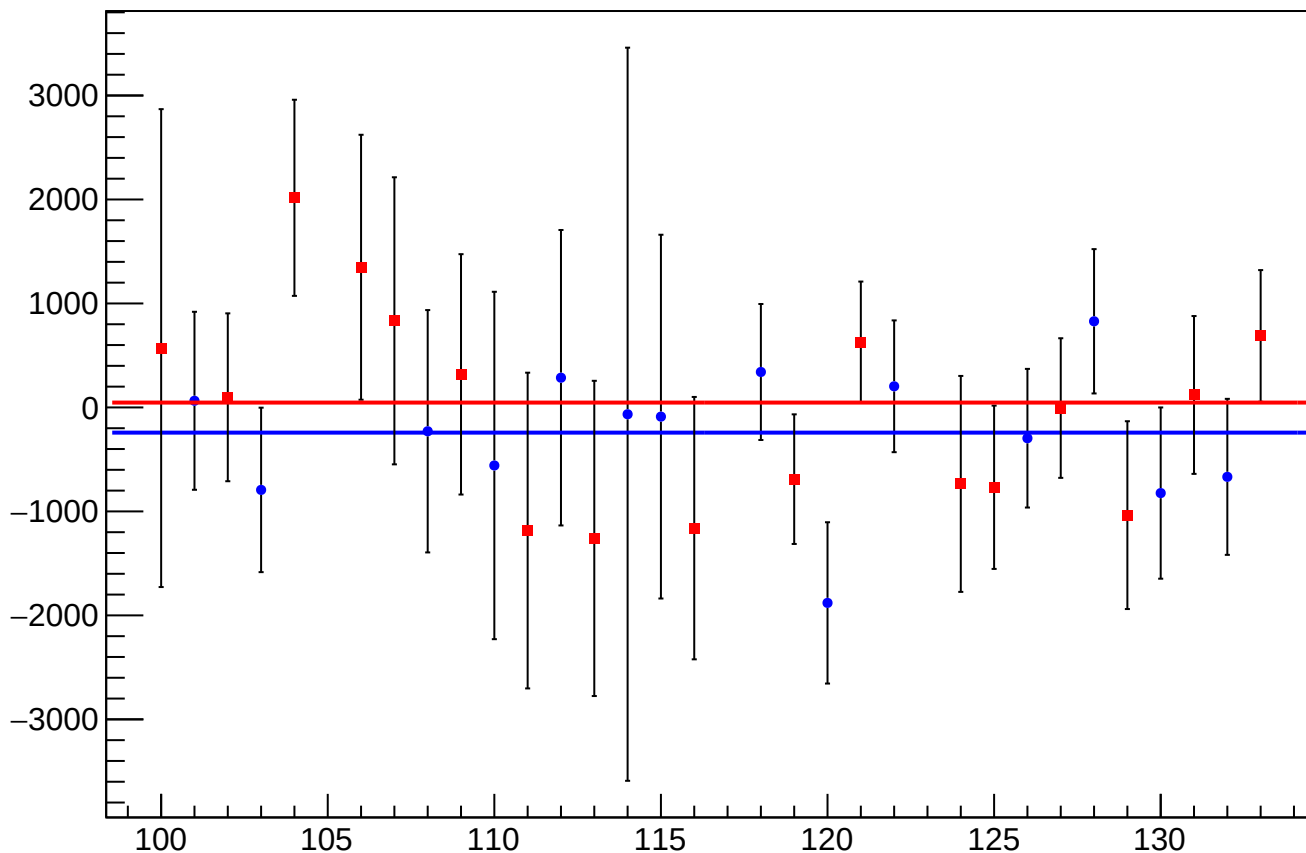
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 82.773+/-0.017  $\chi^2/\text{NDF}$ : 1719478.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam1\_eigen\_cor\_correction\_mean vs Slug



Right In: -242.320 $\pm$ 229.252  $\chi^2$ /NDF: 9.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 46.672 $\pm$ 213.315  $\chi^2$ /NDF: 14.7/16

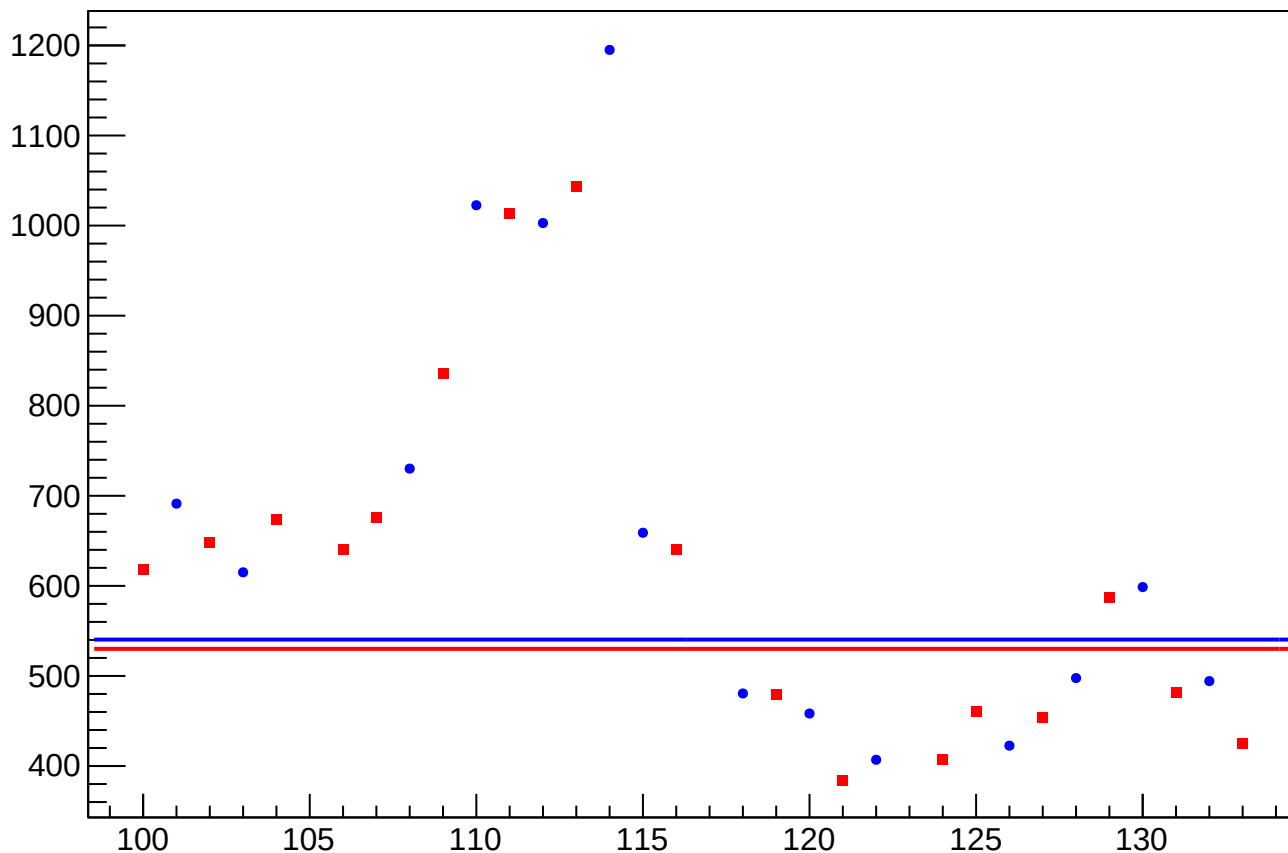
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -87.430 $\pm$ 156.167  $\chi^2$ /NDF: 25.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_eigen\_cor\_correction\_rms vs Slug



Right In: 540.398+/-0.162  $\chi^2/\text{NDF}$ : 805092.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 530.102+/-0.151  $\chi^2/\text{NDF}$ : 995515.0/16

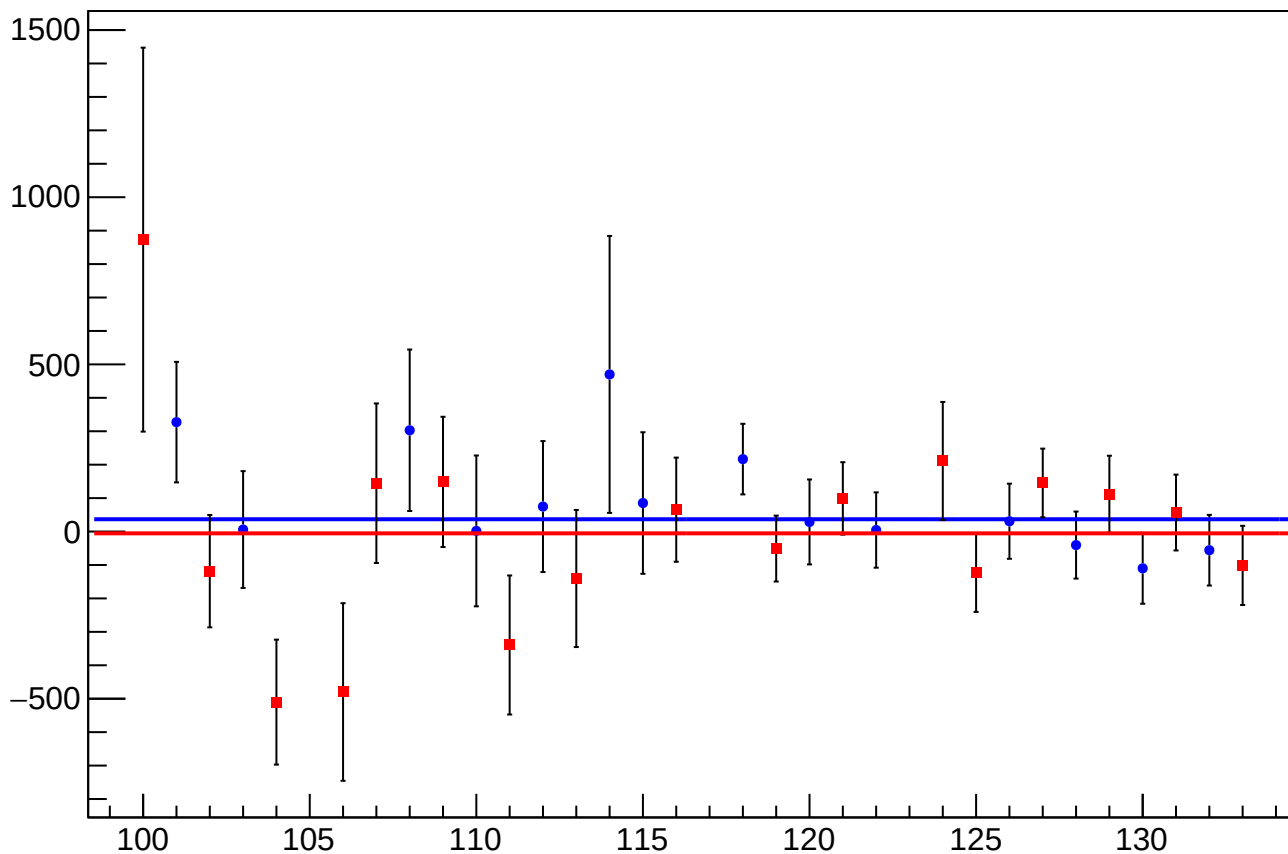
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 534.880+/-0.110  $\chi^2/\text{NDF}$ : 1802769.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam1\_mean vs Slug



Right In: 36.773+/-36.702  $\chi^2/\text{NDF}$ : 11.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.360+/-34.820  $\chi^2/\text{NDF}$ : 25.3/16

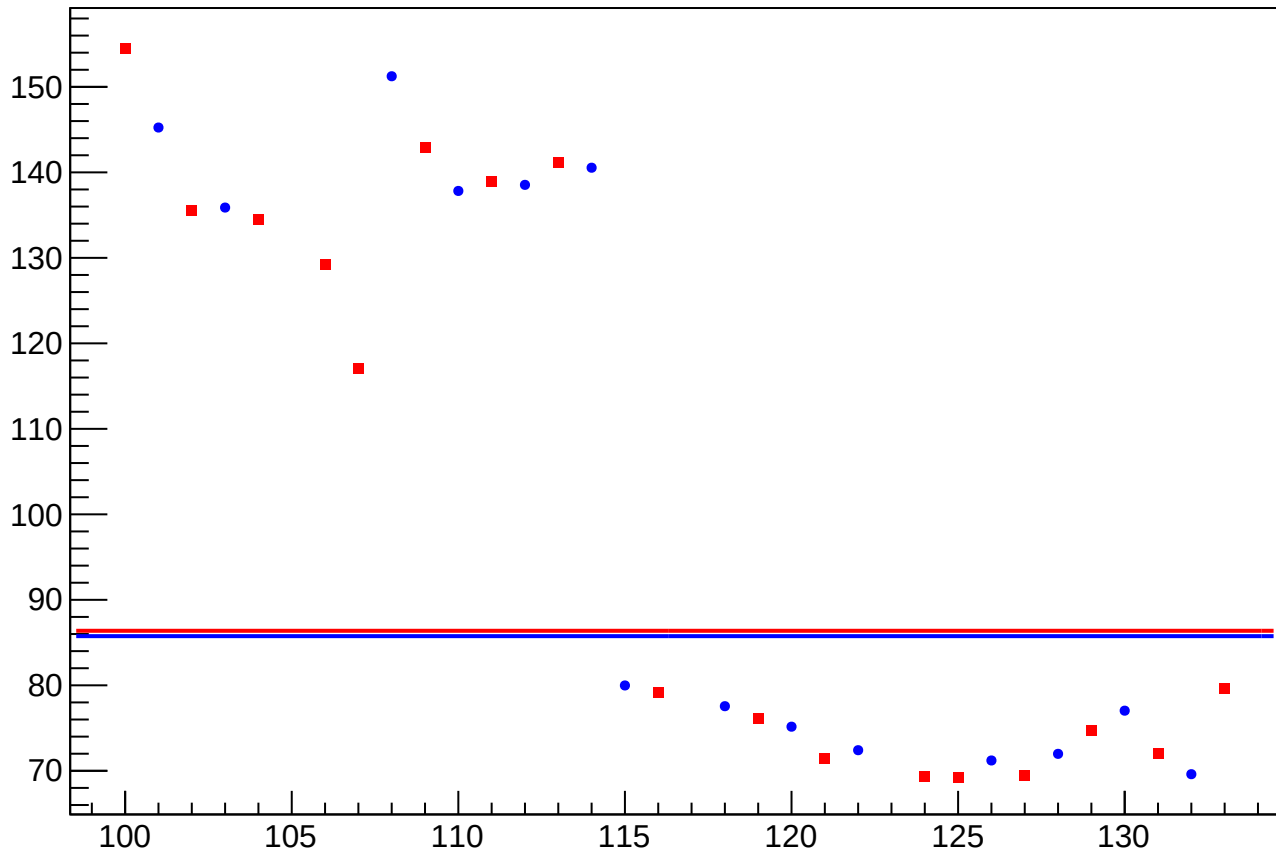
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14.599+/-25.261  $\chi^2/\text{NDF}$ : 37.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam1\_rms vs Slug



Right In: 85.752+/-0.026  $\chi^2/\text{NDF}$ : 1003434.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 86.380+/-0.025  $\chi^2/\text{NDF}$ : 1093346.6/16

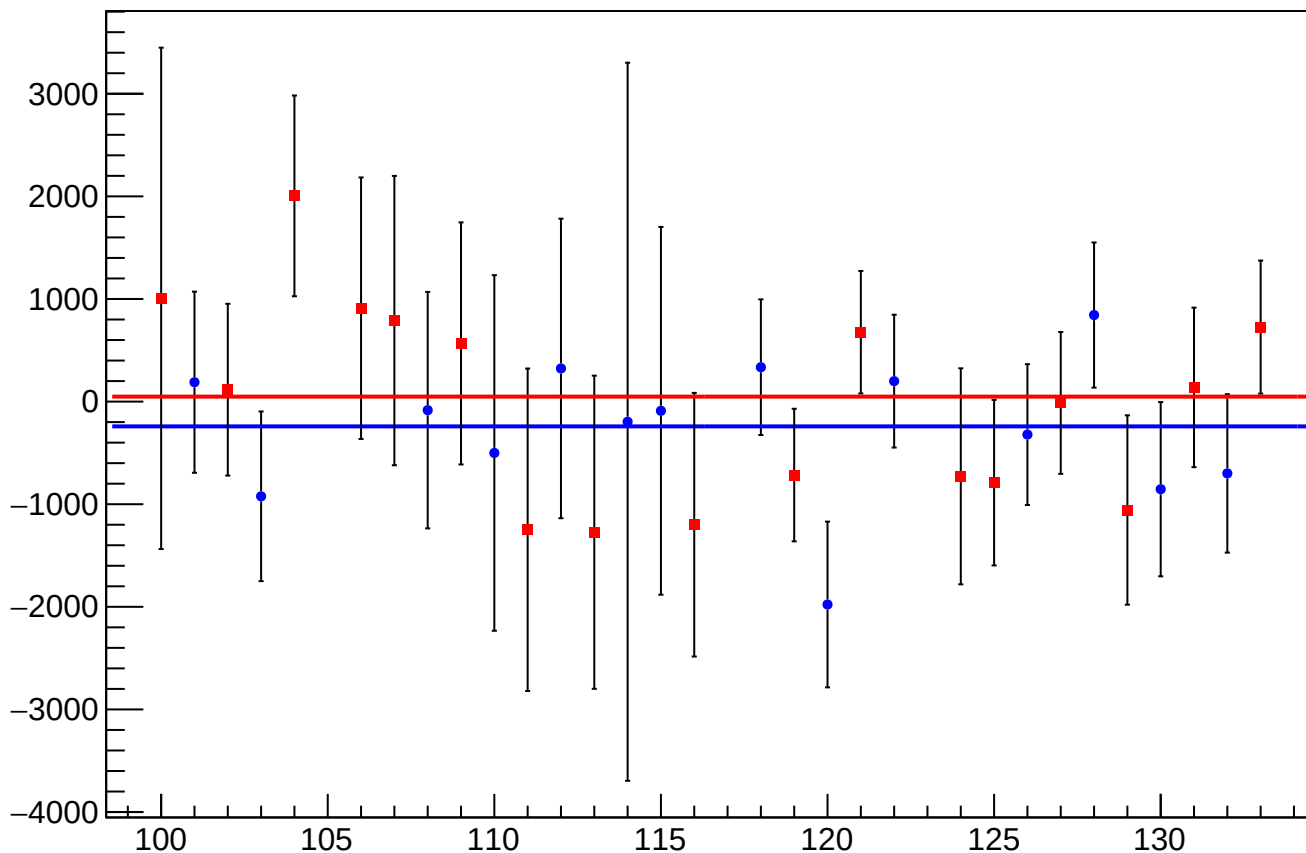
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 86.082+/-0.018  $\chi^2/\text{NDF}$ : 2097089.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_dit\_correction\_mean vs Slug



Right In: -241.582 $\pm$ 235.091  $\chi^2$ /NDF: 10.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.503 $\pm$ 218.950  $\chi^2$ /NDF: 14.1/16

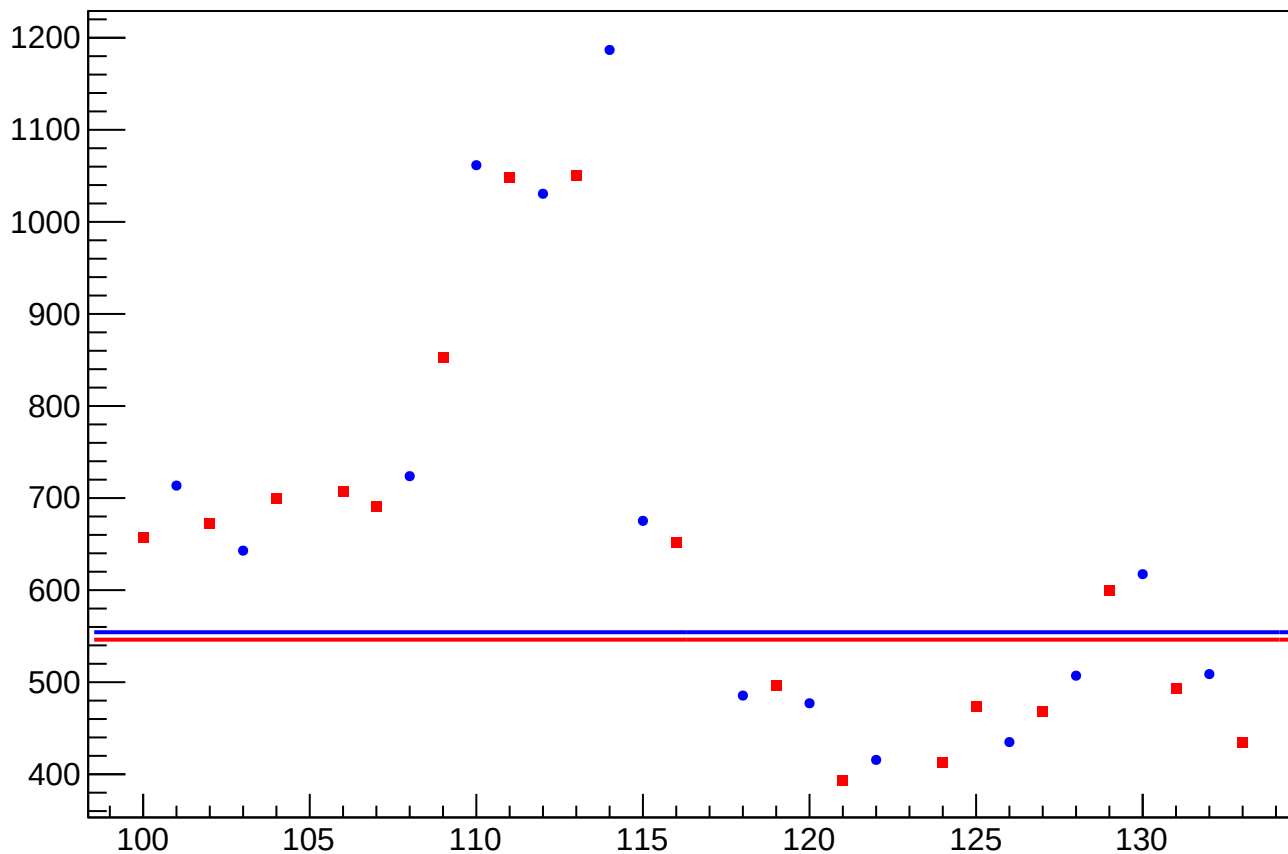
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -86.240 $\pm$ 160.224  $\chi^2$ /NDF: 25.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_dit\_correction\_rms vs Slug



Right In: 554.287+/-0.166  $\chi^2/\text{NDF}$ : 809357.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 546.216+/-0.155  $\chi^2/\text{NDF}$ : 1014374.5/16

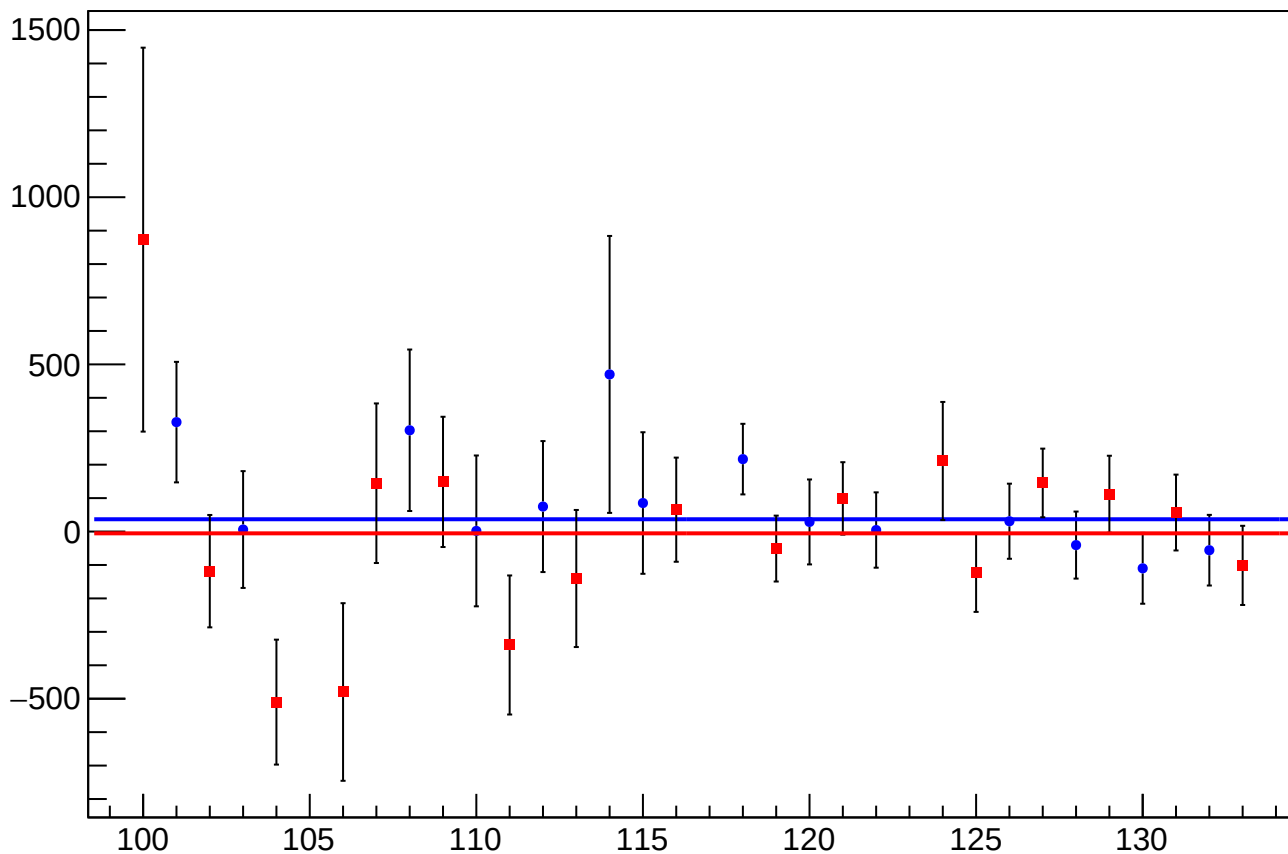
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 549.965+/-0.113  $\chi^2/\text{NDF}$ : 1824994.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam1\_mean vs Slug



Right In: 36.773 $\pm$ 36.702  $\chi^2$ /NDF: 11.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -5.359 $\pm$ 34.820  $\chi^2$ /NDF: 25.3/16

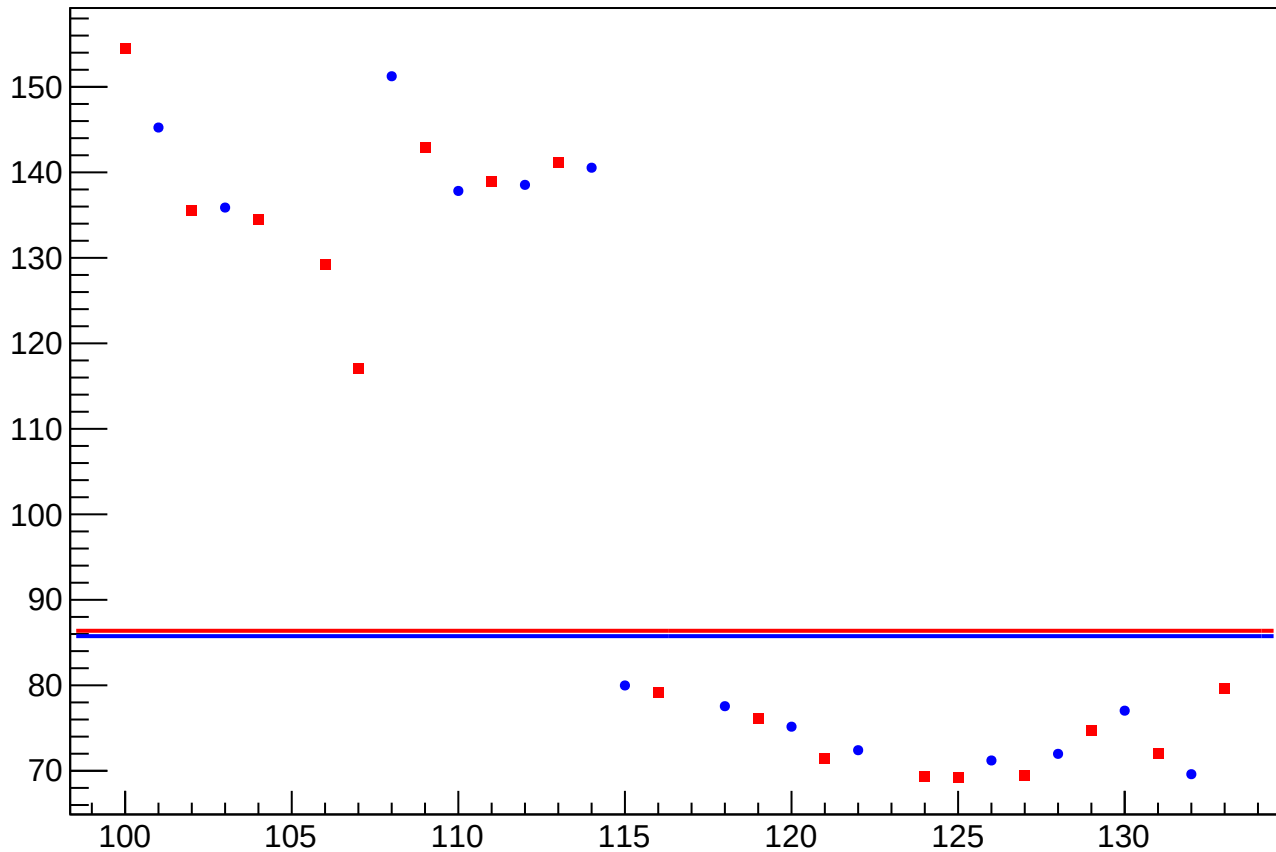
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 14.599 $\pm$ 25.261  $\chi^2$ /NDF: 37.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam1\_rms vs Slug



Right In: 85.752+/-0.026  $\chi^2/\text{NDF}$ : 1003434.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 86.380+/-0.025  $\chi^2/\text{NDF}$ : 1093345.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

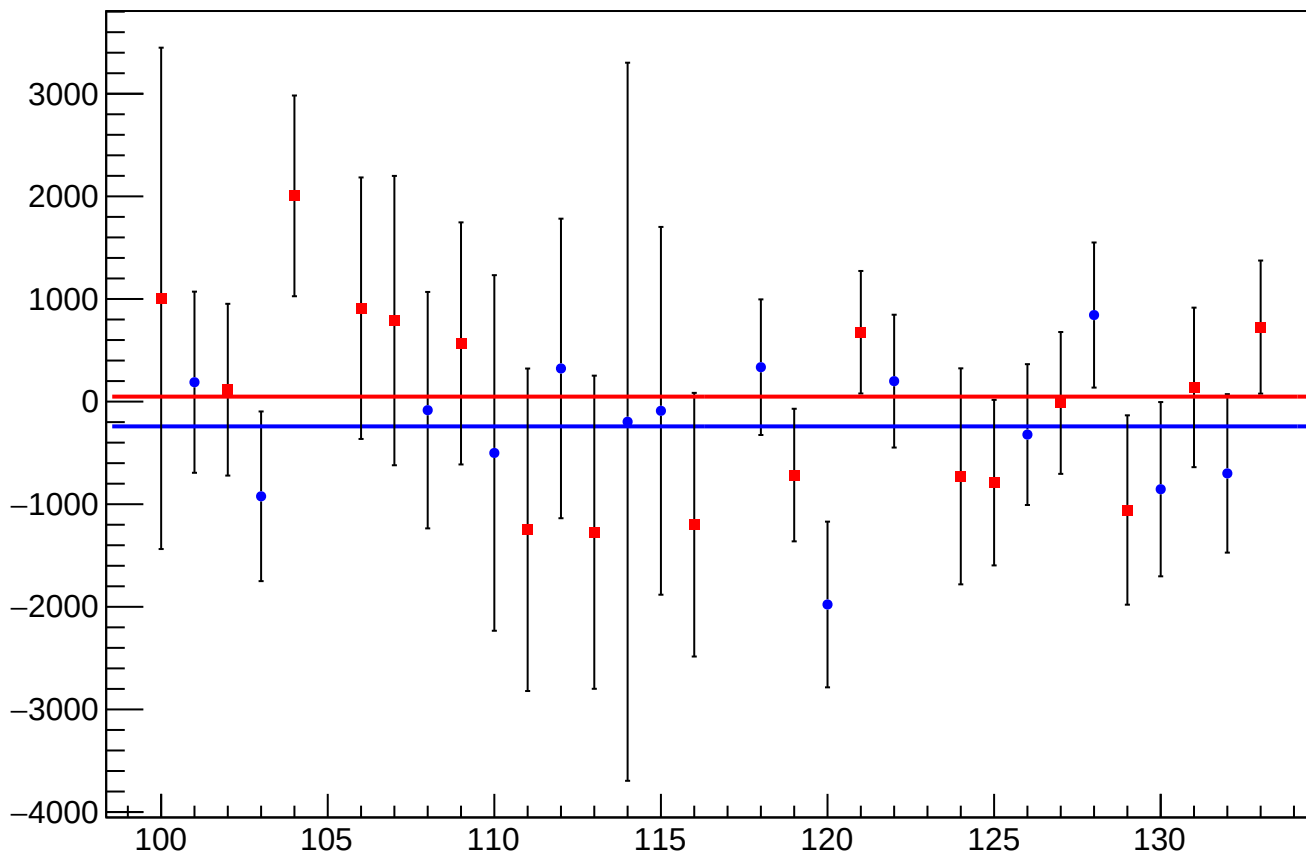
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 86.082+/-0.018  $\chi^2/\text{NDF}$ : 2097089.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam1\_eigen\_dit\_correction\_mean vs Slug



Right In: -241.582 $\pm$ 235.091  $\chi^2$ /NDF: 10.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.504 $\pm$ 218.949  $\chi^2$ /NDF: 14.1/16

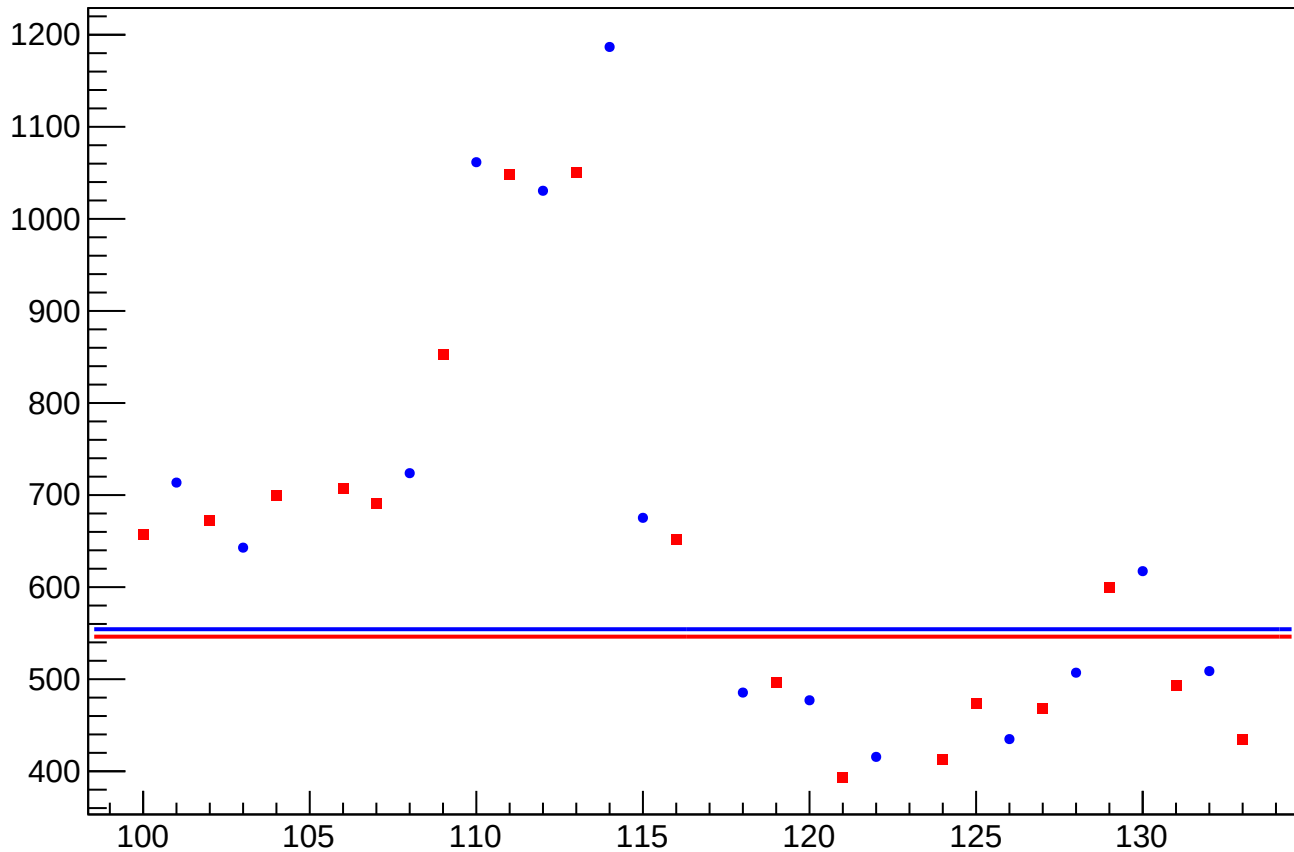
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -86.239 $\pm$ 160.223  $\chi^2$ /NDF: 25.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_eigen\_dit\_correction\_rms vs Slug



Right In: 554.286+/-0.166  $\chi^2/\text{NDF}$ : 809358.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 546.216+/-0.155  $\chi^2/\text{NDF}$ : 1014375.9/16

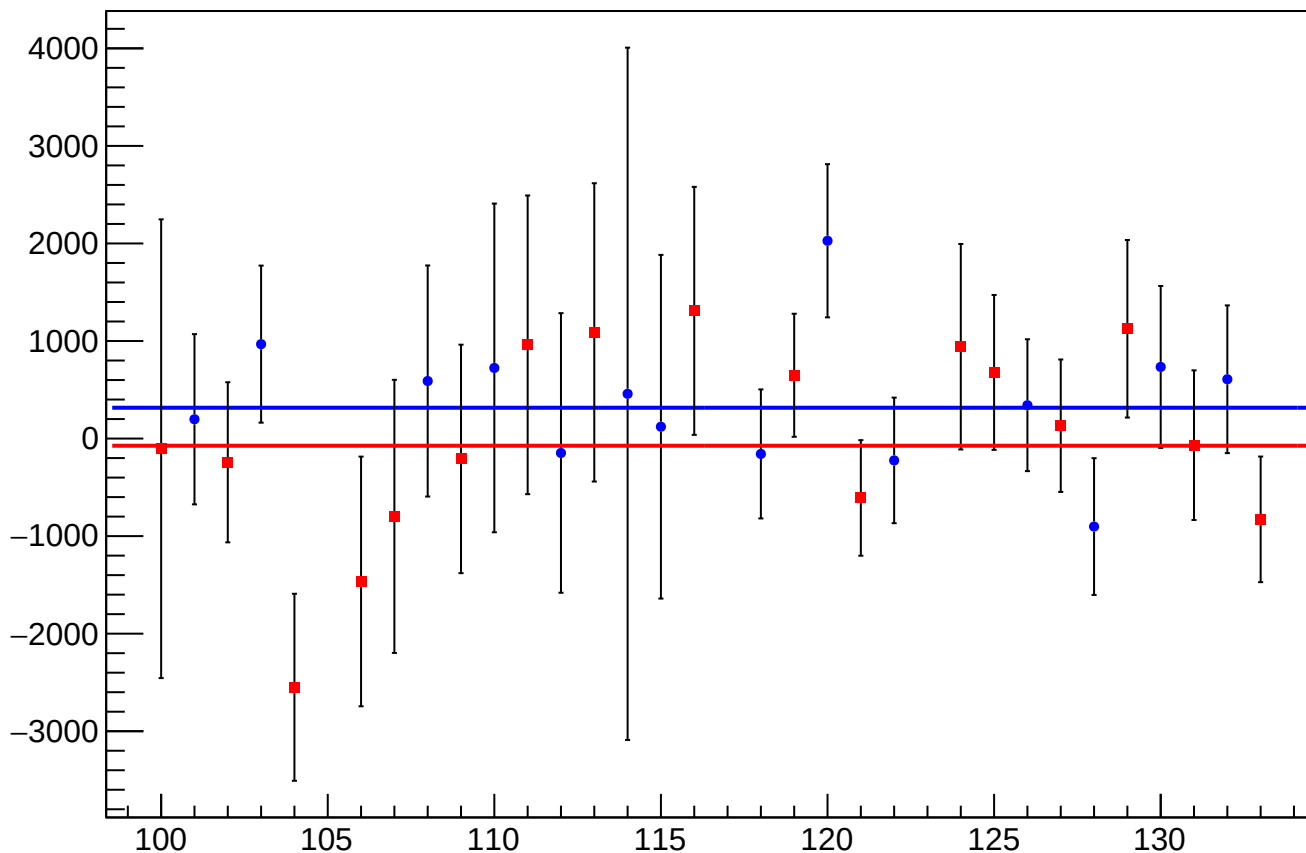
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 549.964+/-0.113  $\chi^2/\text{NDF}$ : 1824996.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_mean vs Slug



Right In: 315.980+/-232.171  $\chi^2/\text{NDF}$ : 10.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -73.393+/-216.068  $\chi^2/\text{NDF}$ : 17.5/16

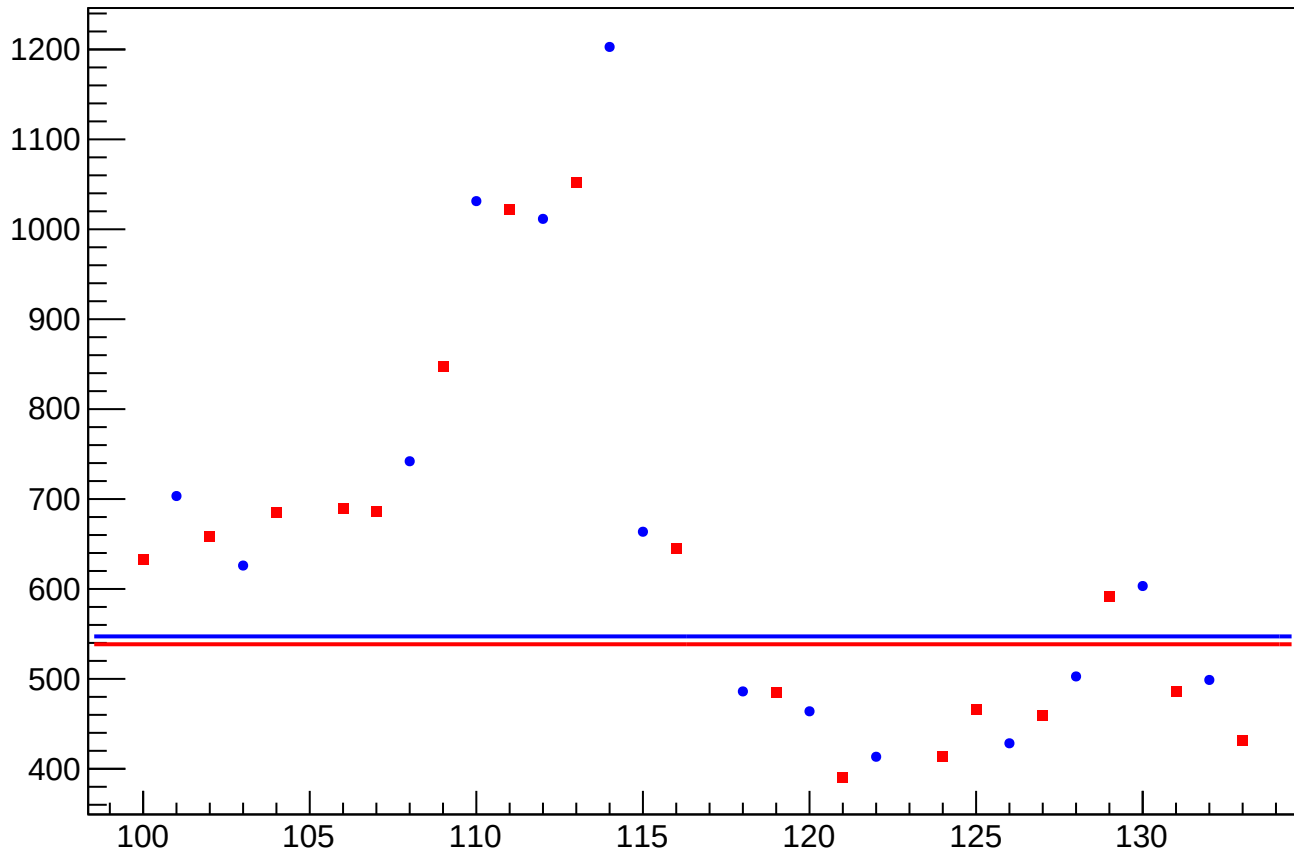
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 107.323+/-158.170  $\chi^2/\text{NDF}$ : 29.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_rms vs Slug



Right In: 547.245+/-0.164  $\chi^2/\text{NDF}$ : 802721.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 538.500+/-0.153  $\chi^2/\text{NDF}$ : 1003211.6/16

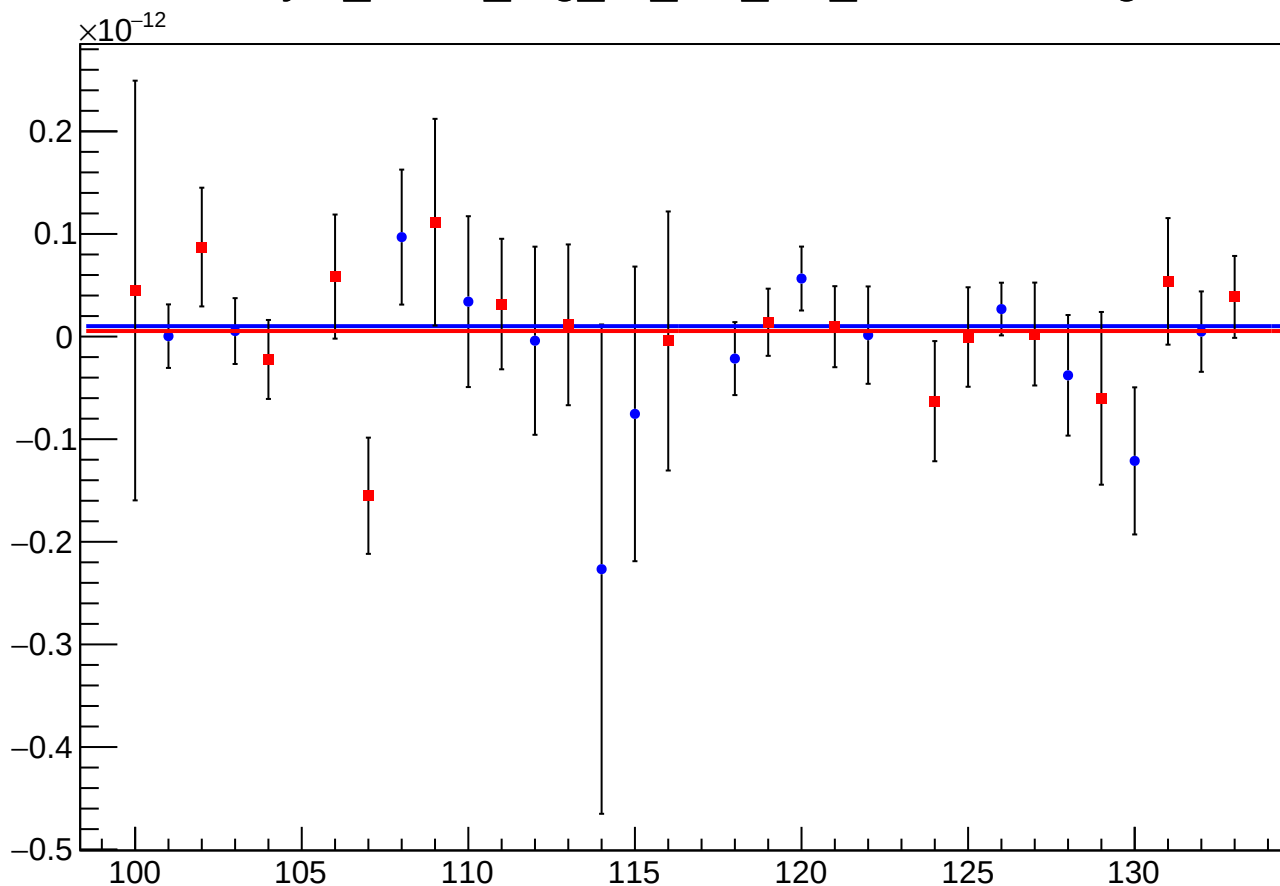
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 542.559+/-0.112  $\chi^2/\text{NDF}$ : 1807453.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.0/16

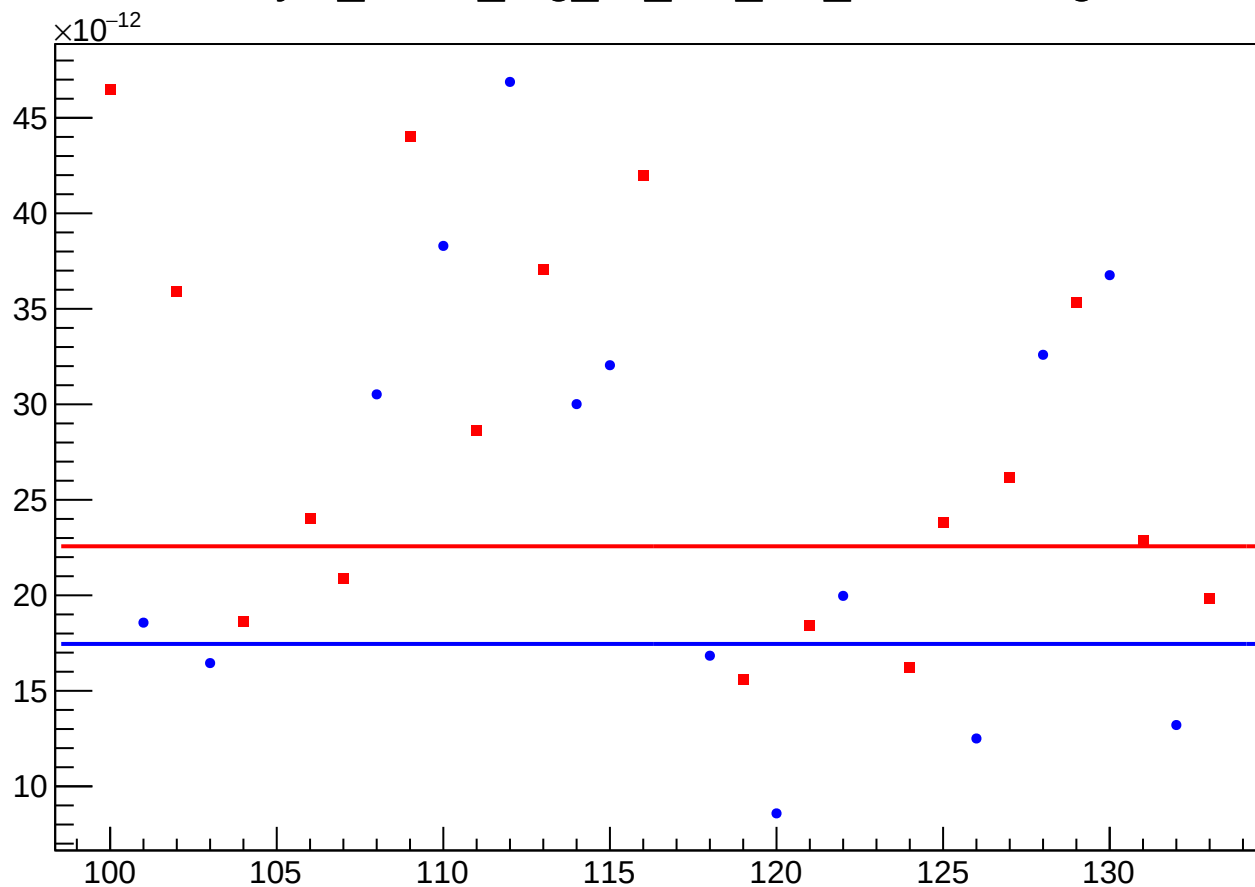
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 26.9/30

- 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  $\chi^2/\text{NDF}$ : 985148.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 586509.0/16

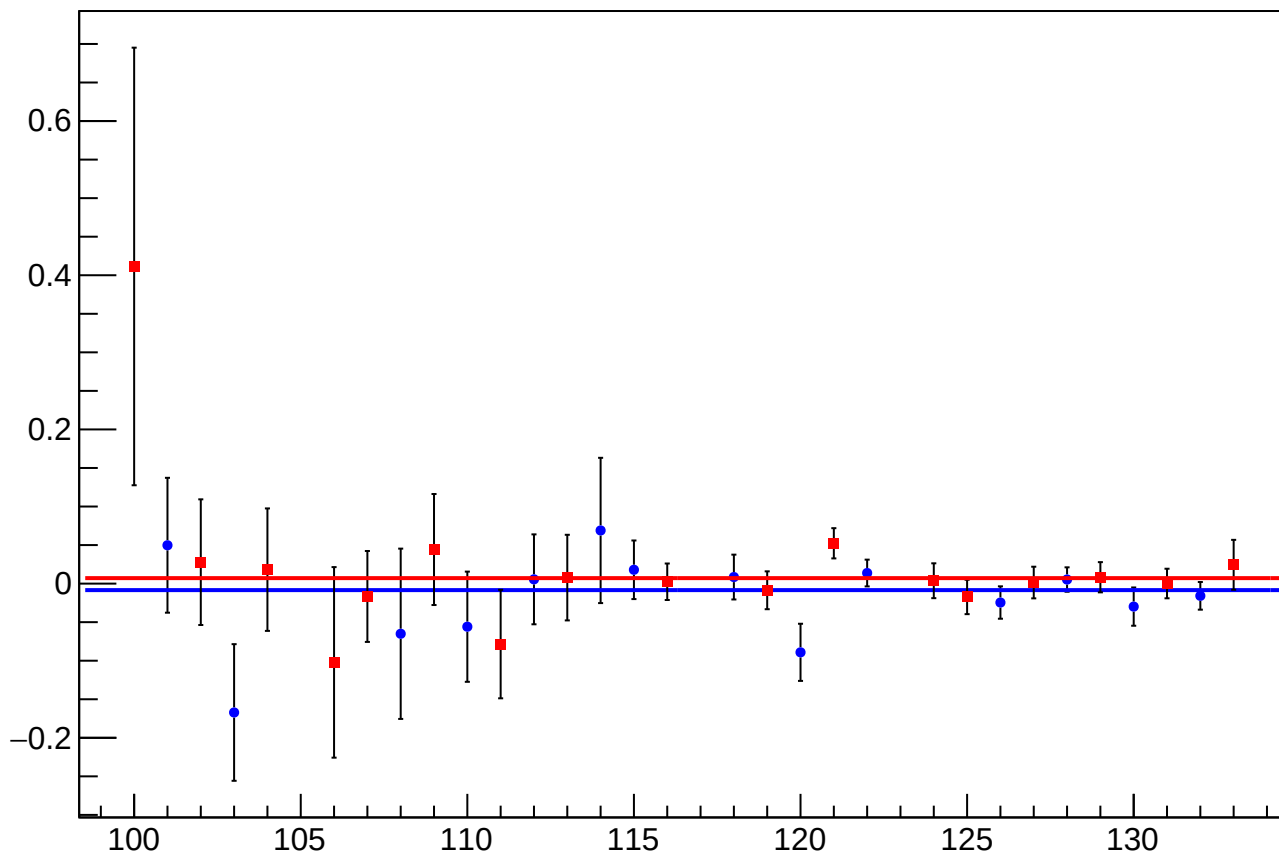
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1743825.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.007  $\chi^2$ /NDF: 14.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.007 $\pm$ 0.007  $\chi^2$ /NDF: 12.3/16

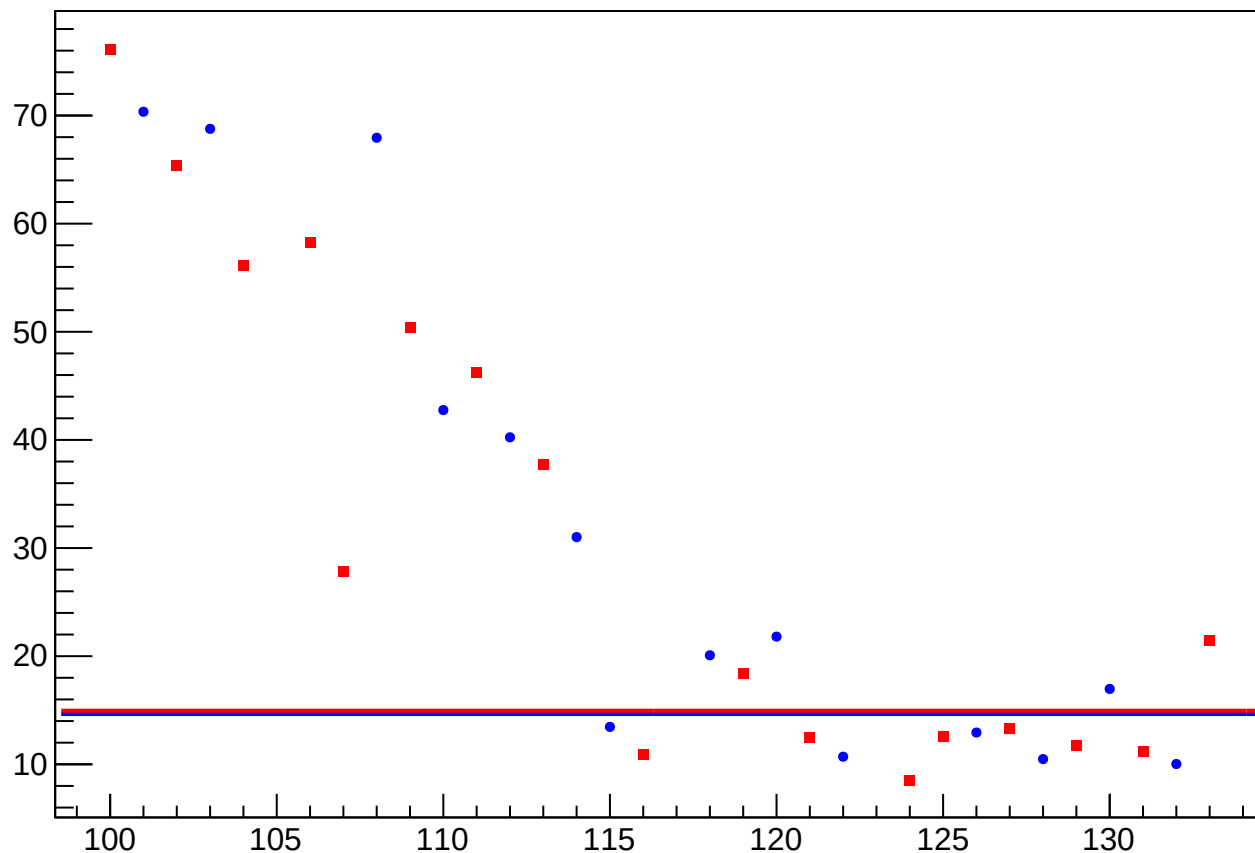
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.005  $\chi^2$ /NDF: 29.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 14.650+/-0.005  $\chi^2/\text{NDF}$ : 3329146.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14.959+/-0.005  $\chi^2/\text{NDF}$ : 3492196.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

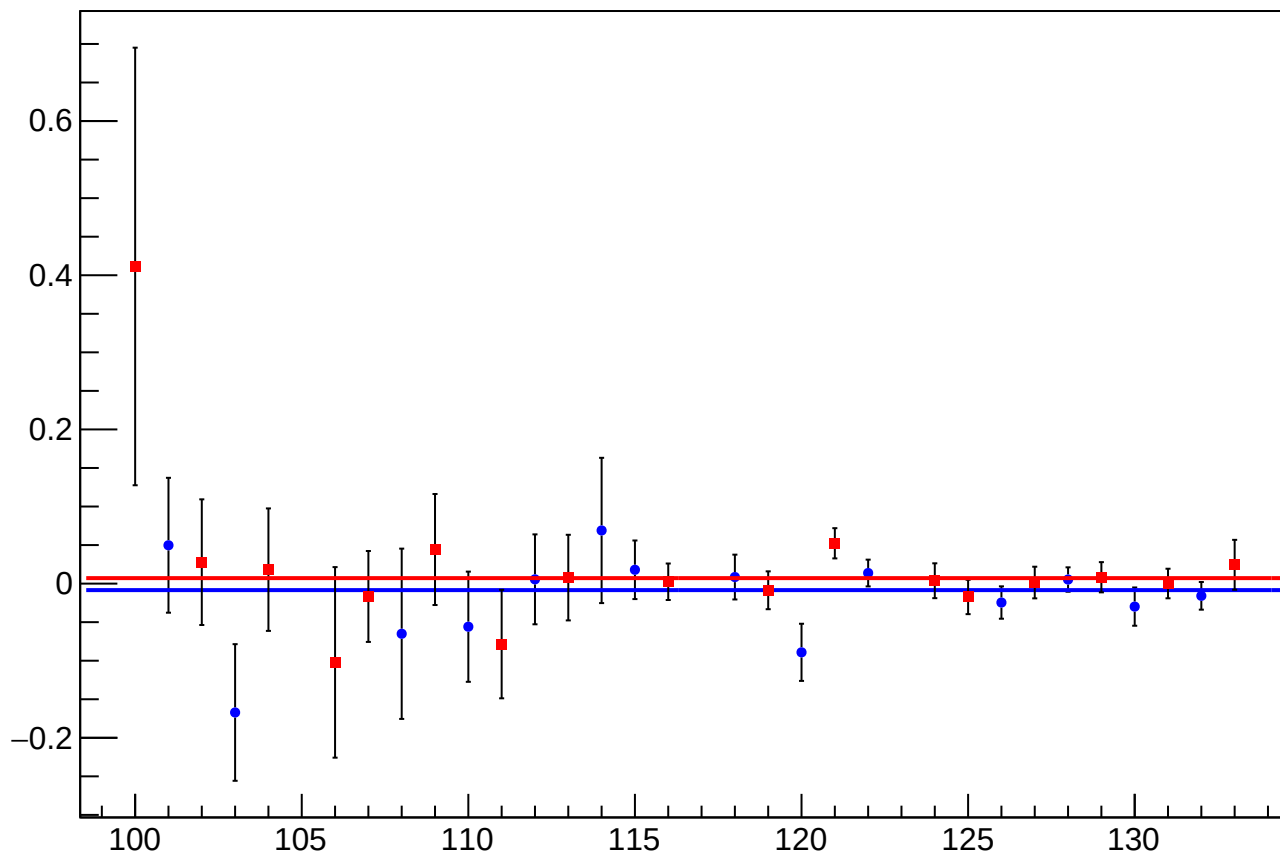
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14.814+/-0.004  $\chi^2/\text{NDF}$ : 6823146.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam1\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In:  $-0.008 \pm 0.007$   $\chi^2/\text{NDF}$ : 14.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.007 \pm 0.007$   $\chi^2/\text{NDF}$ : 12.3/16

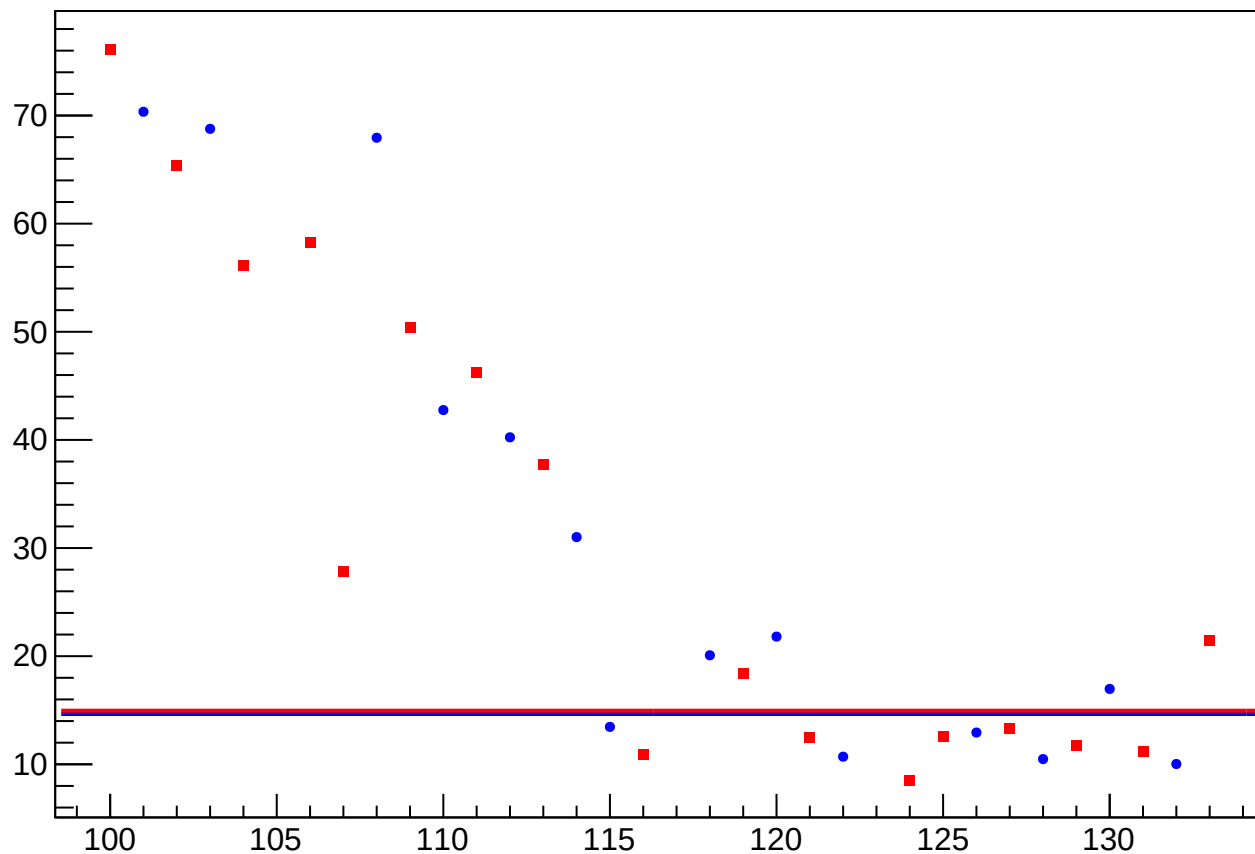
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.005$   $\chi^2/\text{NDF}$ : 29.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 14.650+/-0.005  $\chi^2/\text{NDF}$ : 3329146.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14.959+/-0.005  $\chi^2/\text{NDF}$ : 3492196.8/16

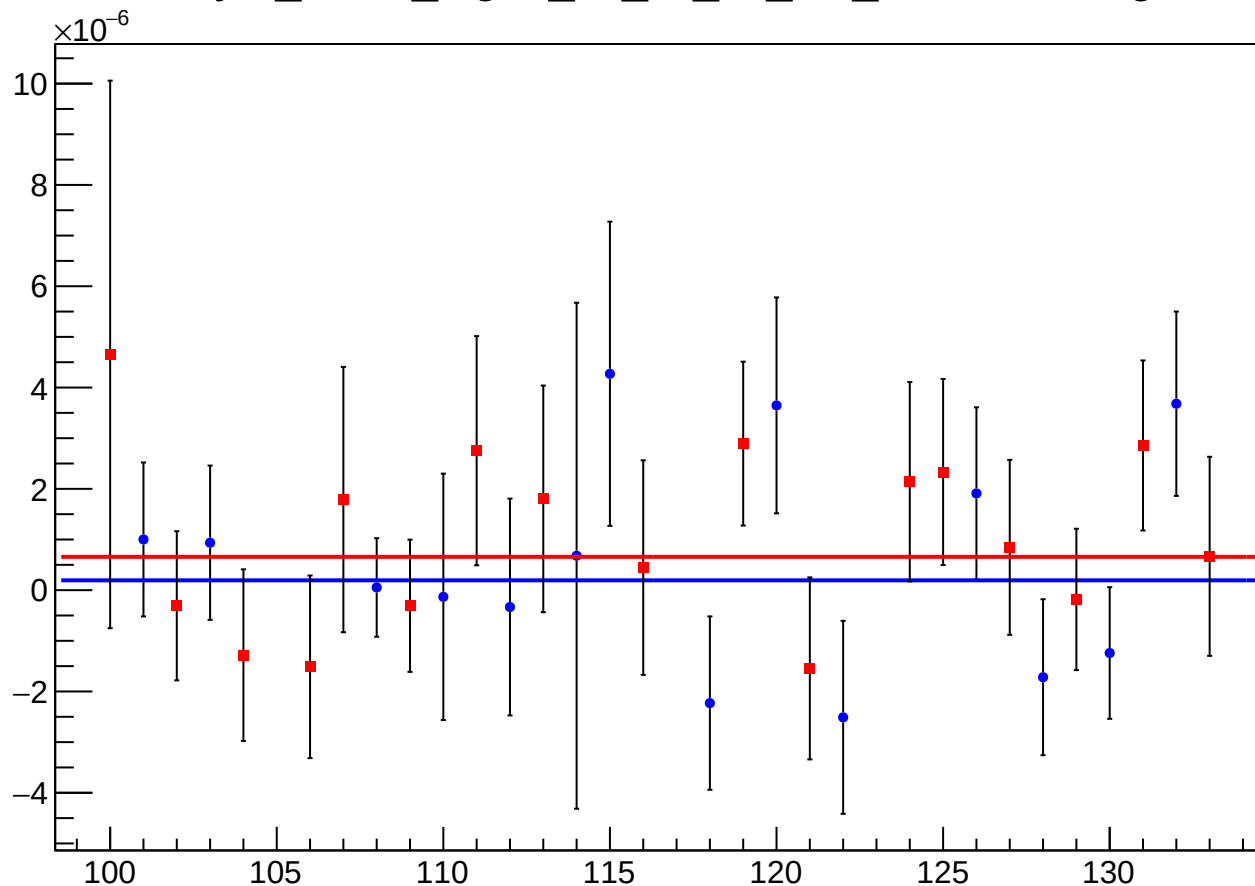
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14.814+/-0.004  $\chi^2/\text{NDF}$ : 6823146.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.5/16

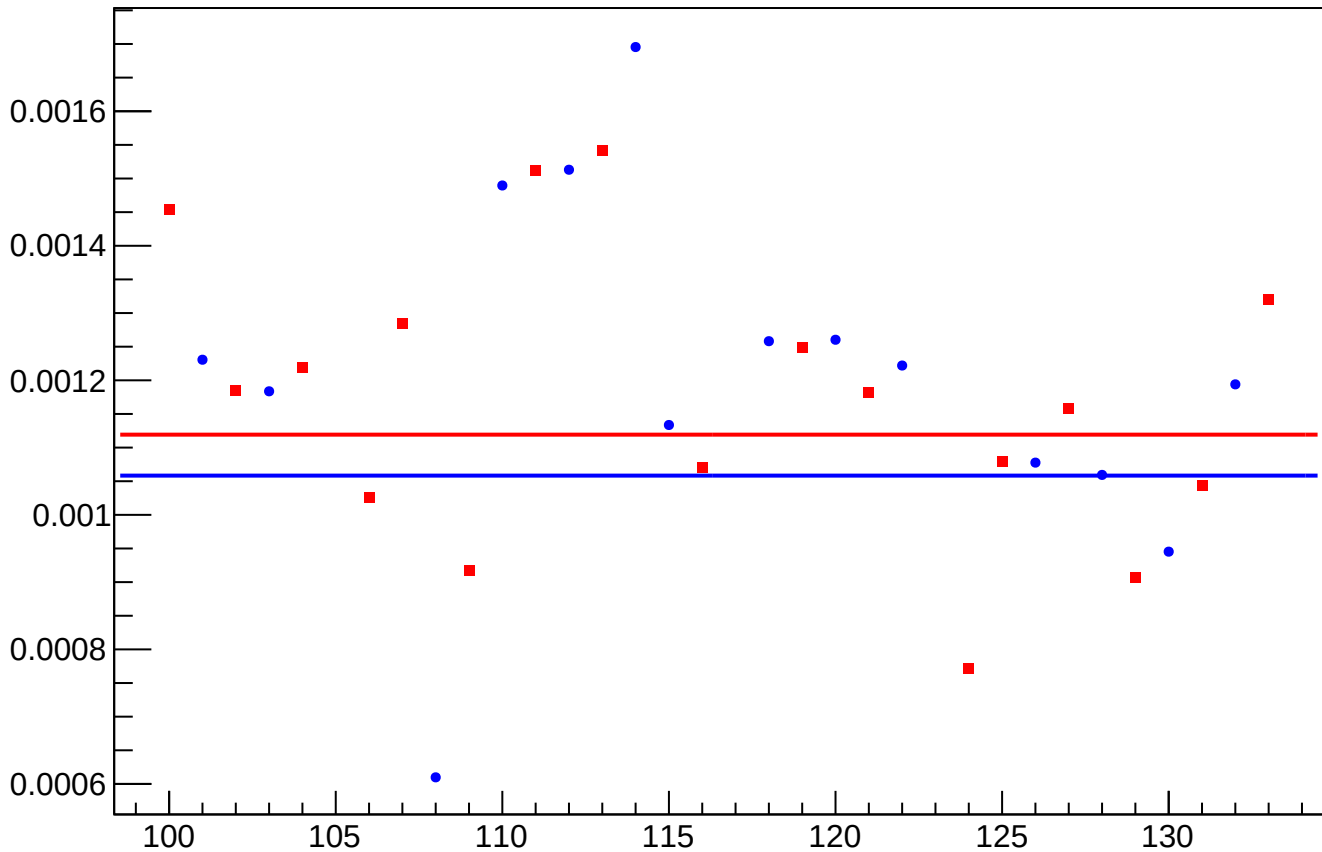
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 29.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 737743.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 363777.5/16

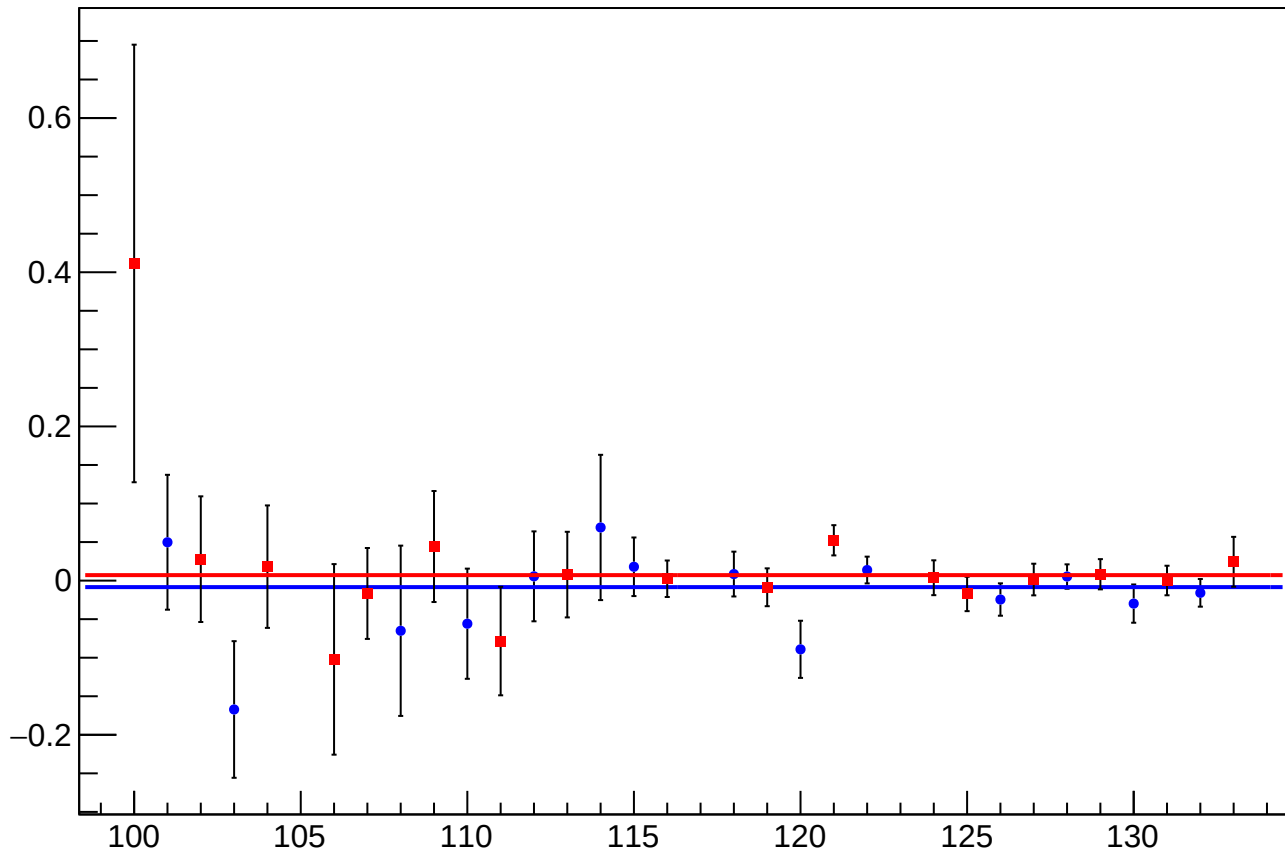
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1120368.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.008 $\pm$ 0.007  $\chi^2$ /NDF: 14.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.007 $\pm$ 0.007  $\chi^2$ /NDF: 12.3/16

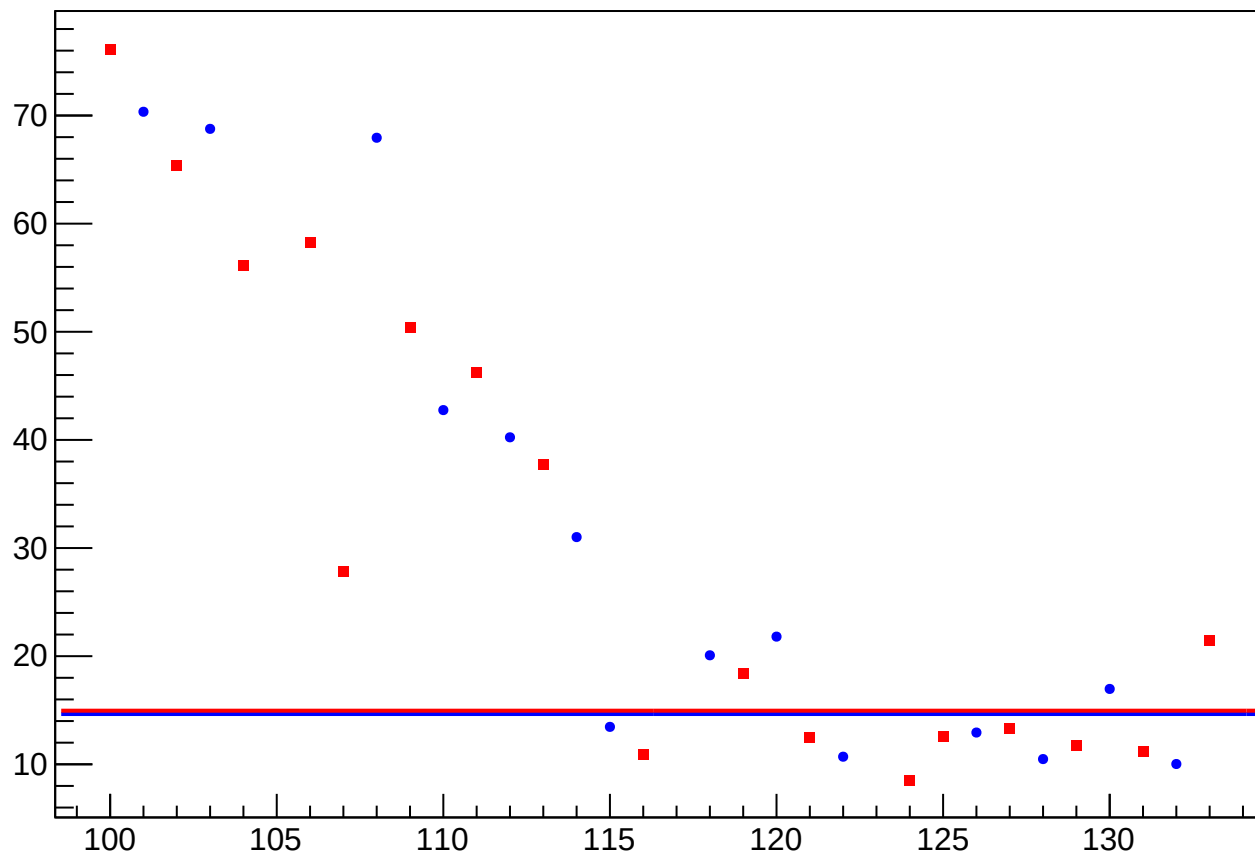
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.005  $\chi^2$ /NDF: 29.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 14.650 $\pm$ 0.005  $\chi^2$ /NDF: 3329149.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.959 $\pm$ 0.005  $\chi^2$ /NDF: 3492221.3/16

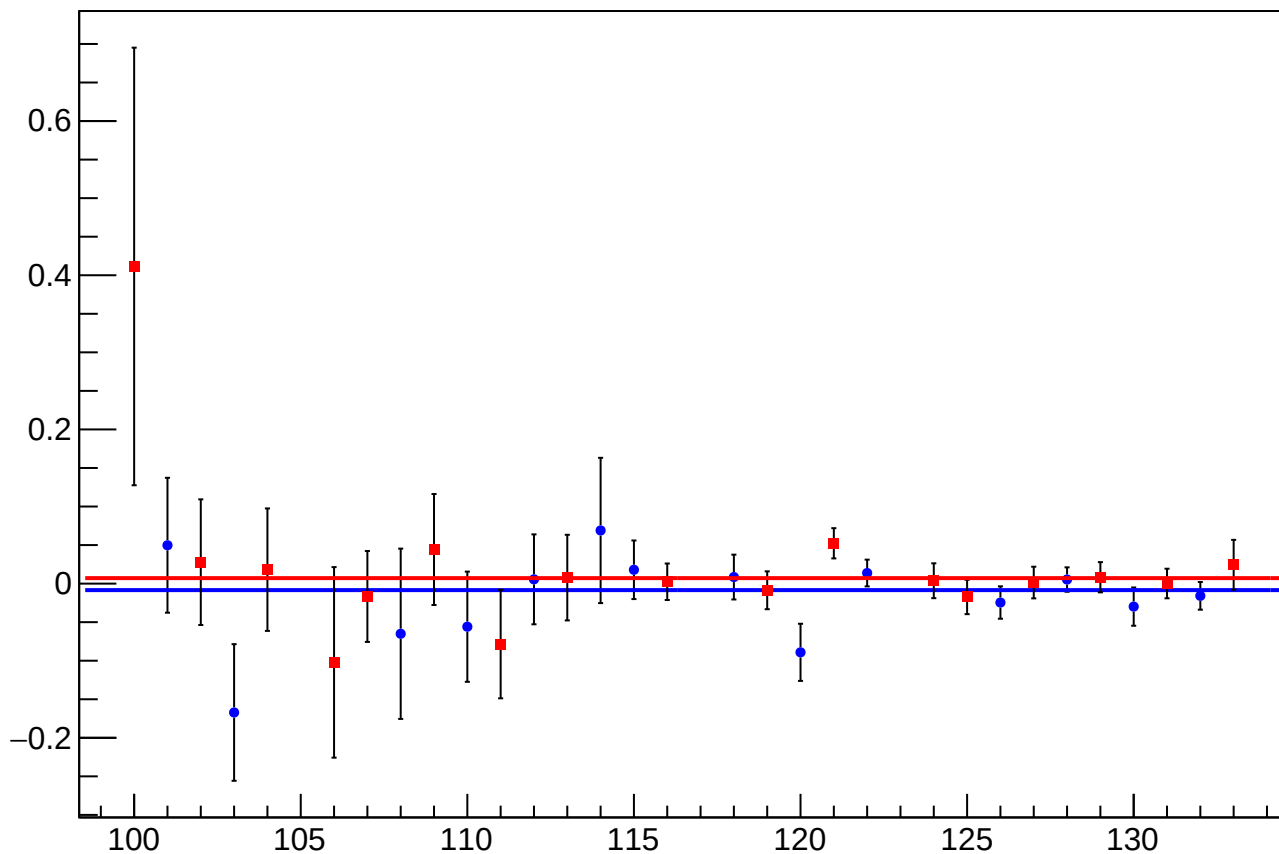
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 14.813 $\pm$ 0.004  $\chi^2$ /NDF: 6823173.2/30

- 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: -0.008 $\pm$ 0.007  $\chi^2$ /NDF: 14.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.007 $\pm$ 0.007  $\chi^2$ /NDF: 12.3/16

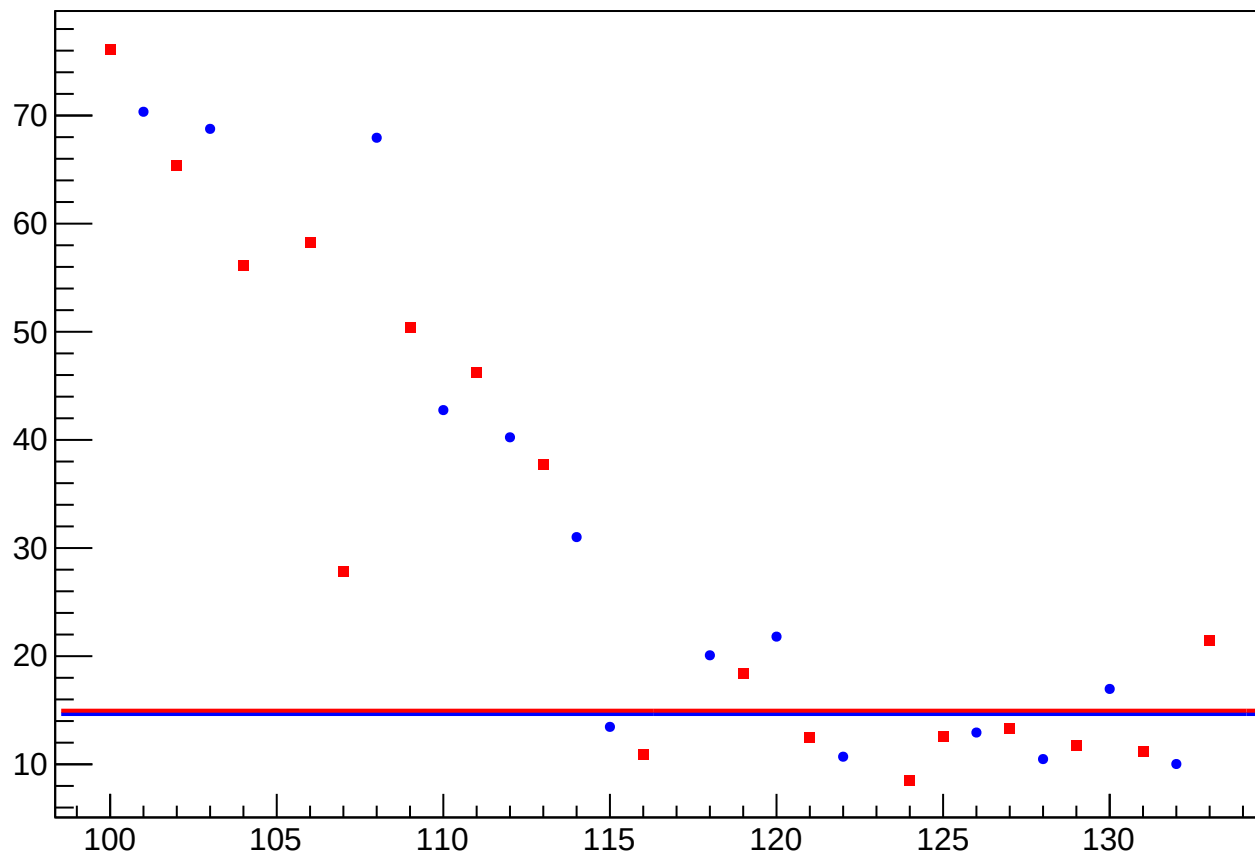
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.005  $\chi^2$ /NDF: 29.1/30

- 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: 14.650+/-0.005  $\chi^2/\text{NDF}$ : 3329149.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14.959+/-0.005  $\chi^2/\text{NDF}$ : 3492221.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

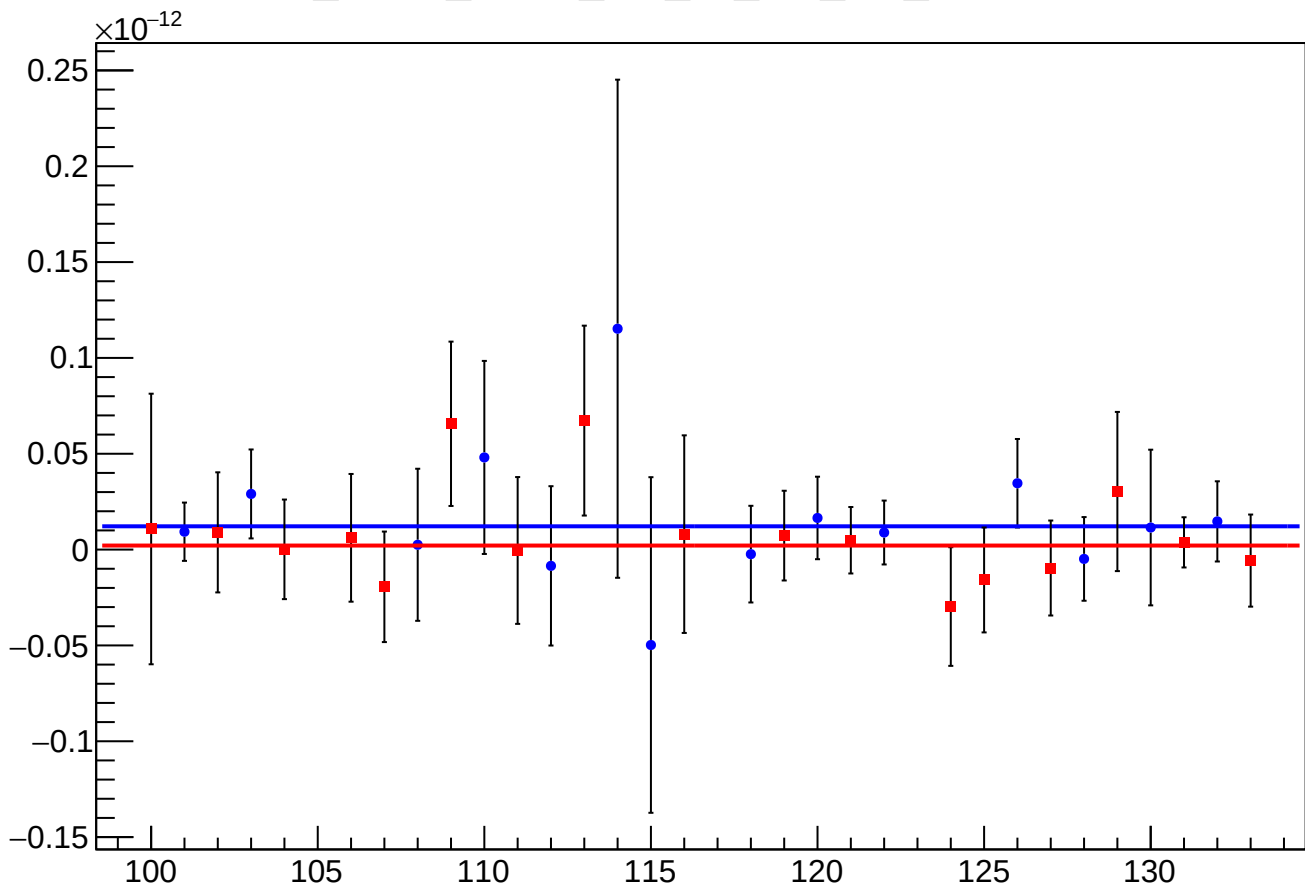
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14.813+/-0.004  $\chi^2/\text{NDF}$ : 6823173.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam1\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 7.0/16

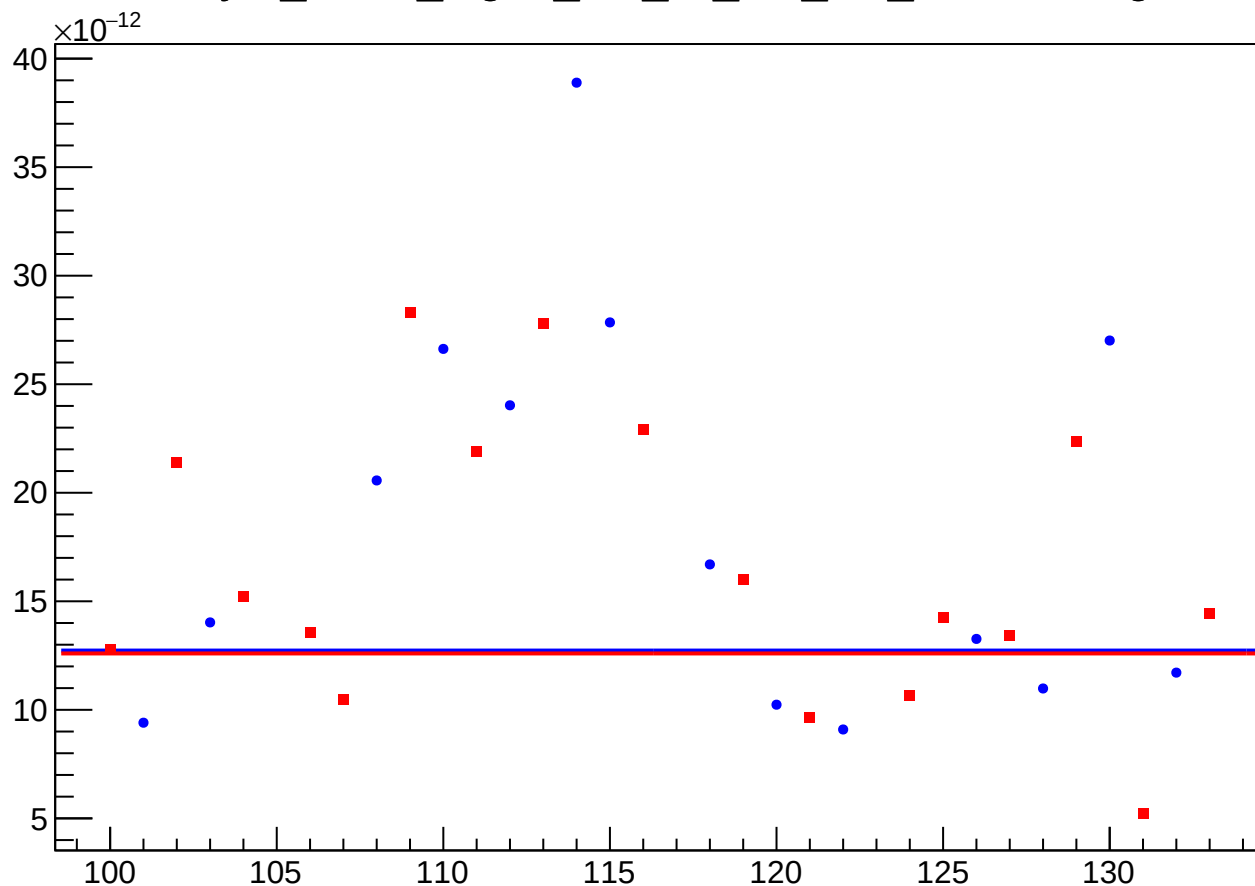
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 12.6/30

- 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  $\chi^2/\text{NDF}$ : 1058364.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1719977.6/16

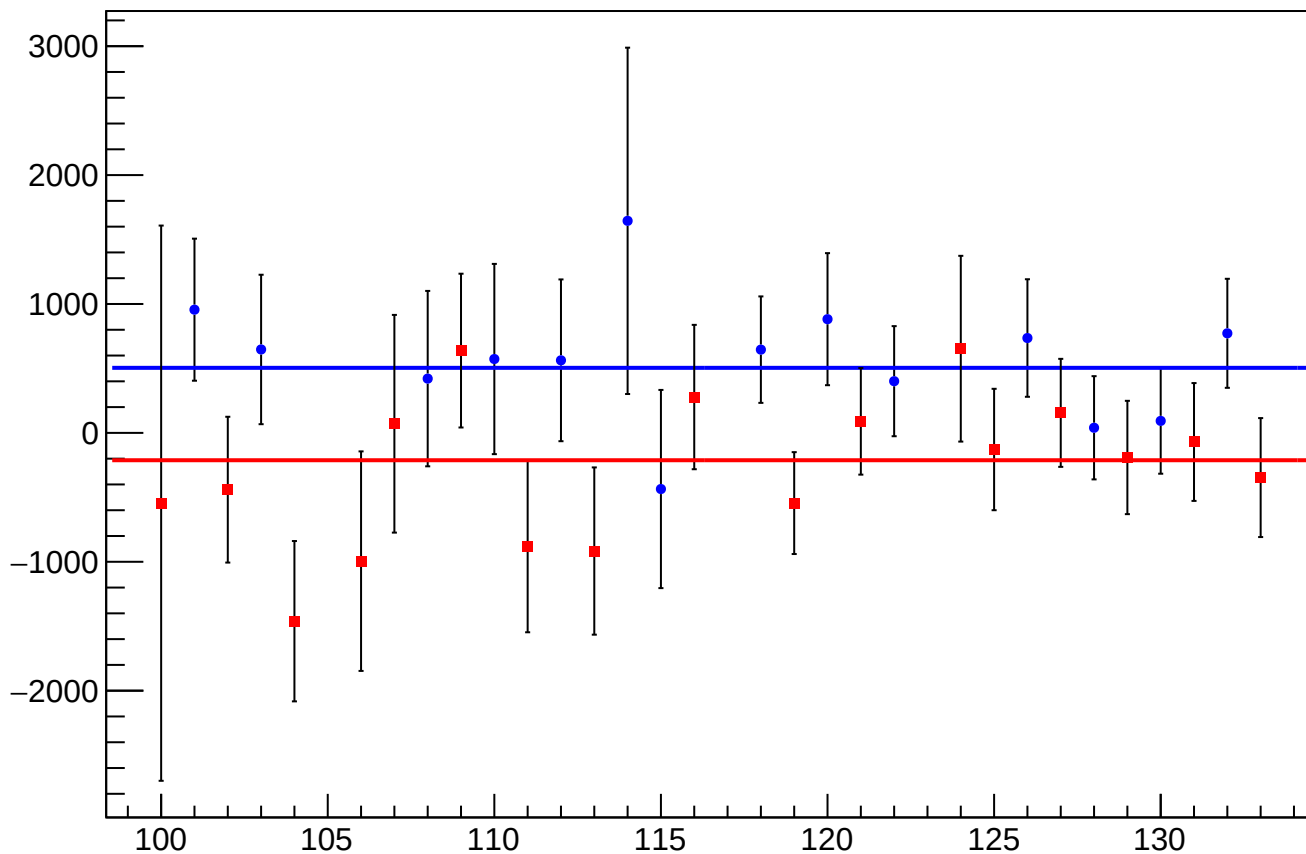
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2778750.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_mean vs Slug



Right In: 504.664 $\pm$ 137.614  $\chi^2$ /NDF: 6.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -212.184 $\pm$ 130.871  $\chi^2$ /NDF: 13.8/16

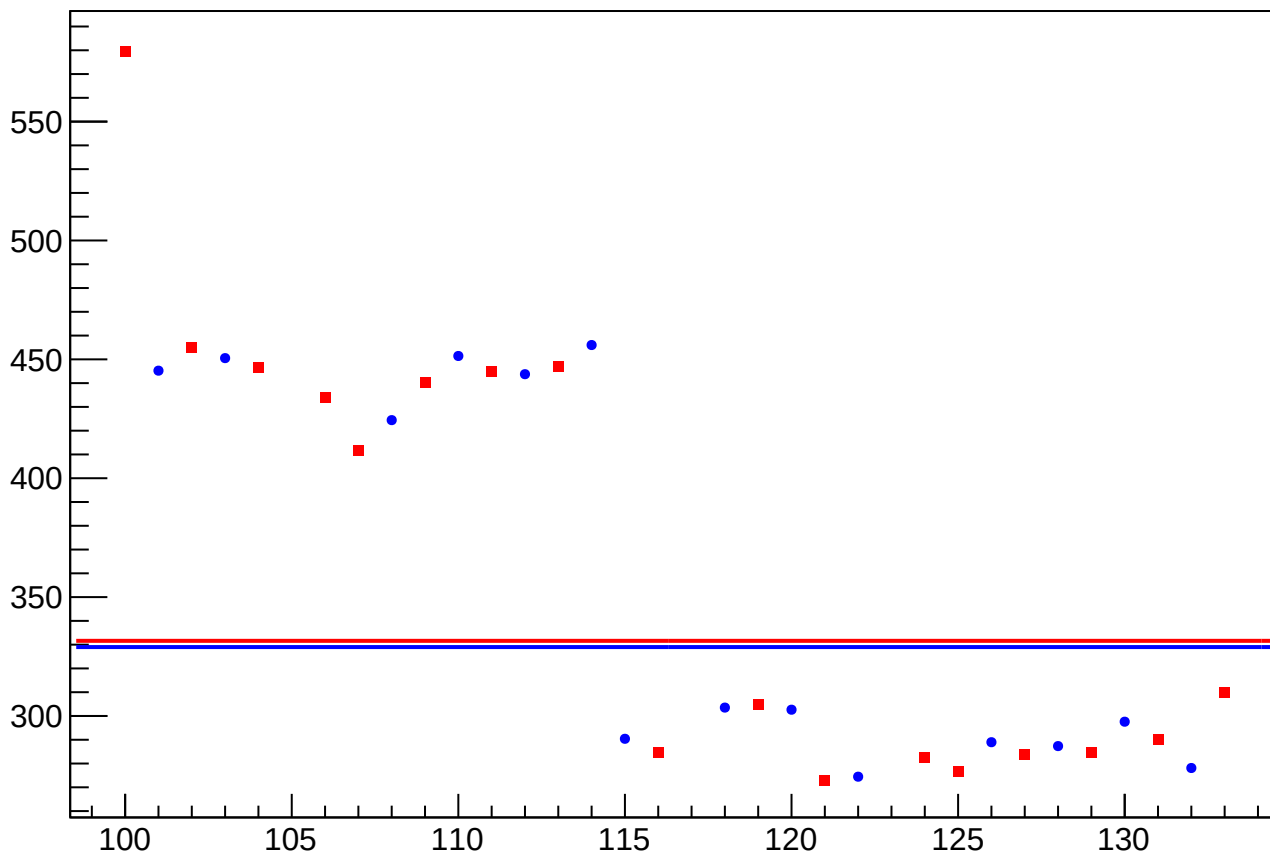
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 128.249 $\pm$ 94.834  $\chi^2$ /NDF: 34.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam2\_rms vs Slug



Right In: 328.984+/-0.097  $\chi^2/\text{NDF}$ : 484386.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 331.608+/-0.093  $\chi^2/\text{NDF}$ : 594610.8/16

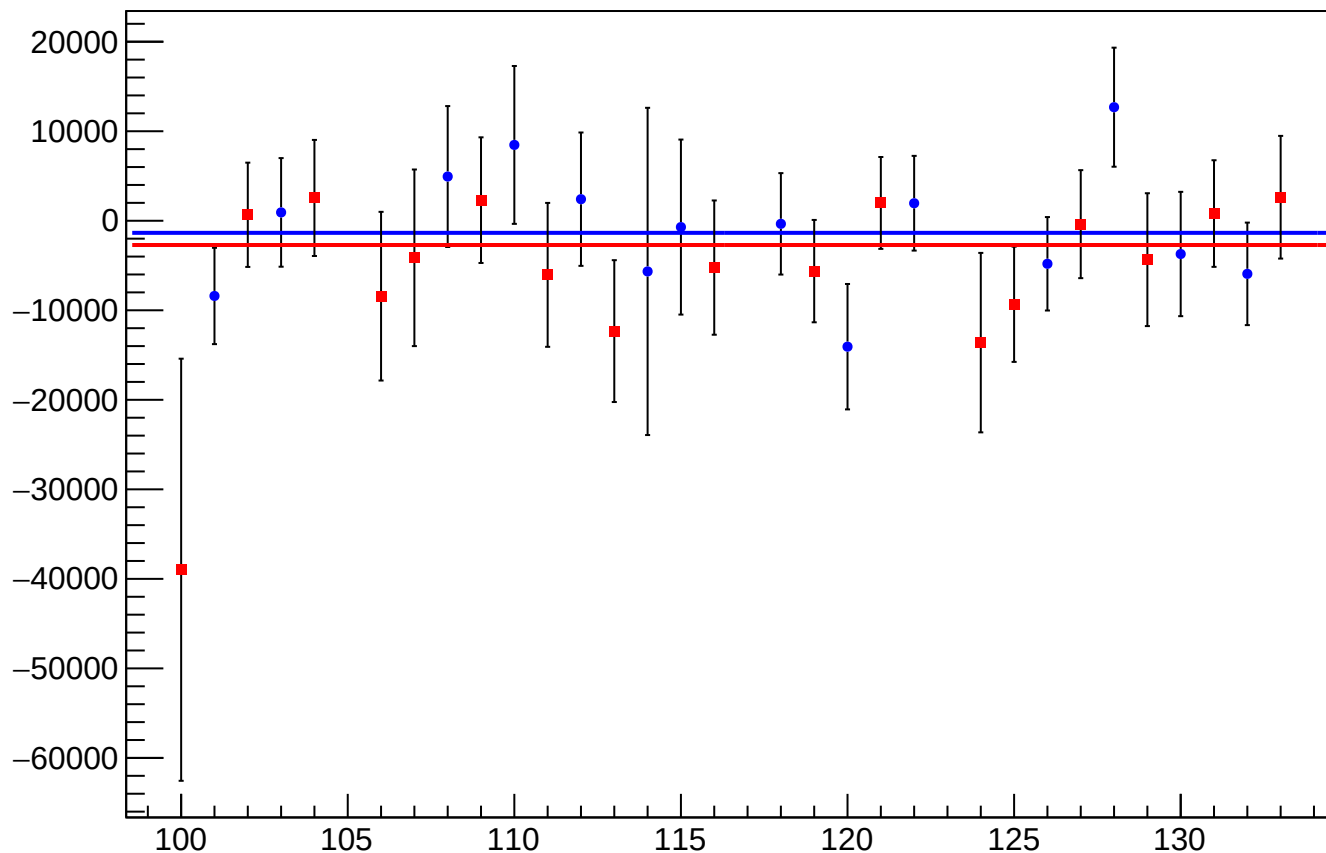
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 330.362+/-0.067  $\chi^2/\text{NDF}$ : 1079379.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_reg\_correction\_mean vs Slug



Right In: -1349.296+/-1767.558  $\chi^2$ /NDF: 13.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2707.972+/-1705.094  $\chi^2$ /NDF: 10.5/16

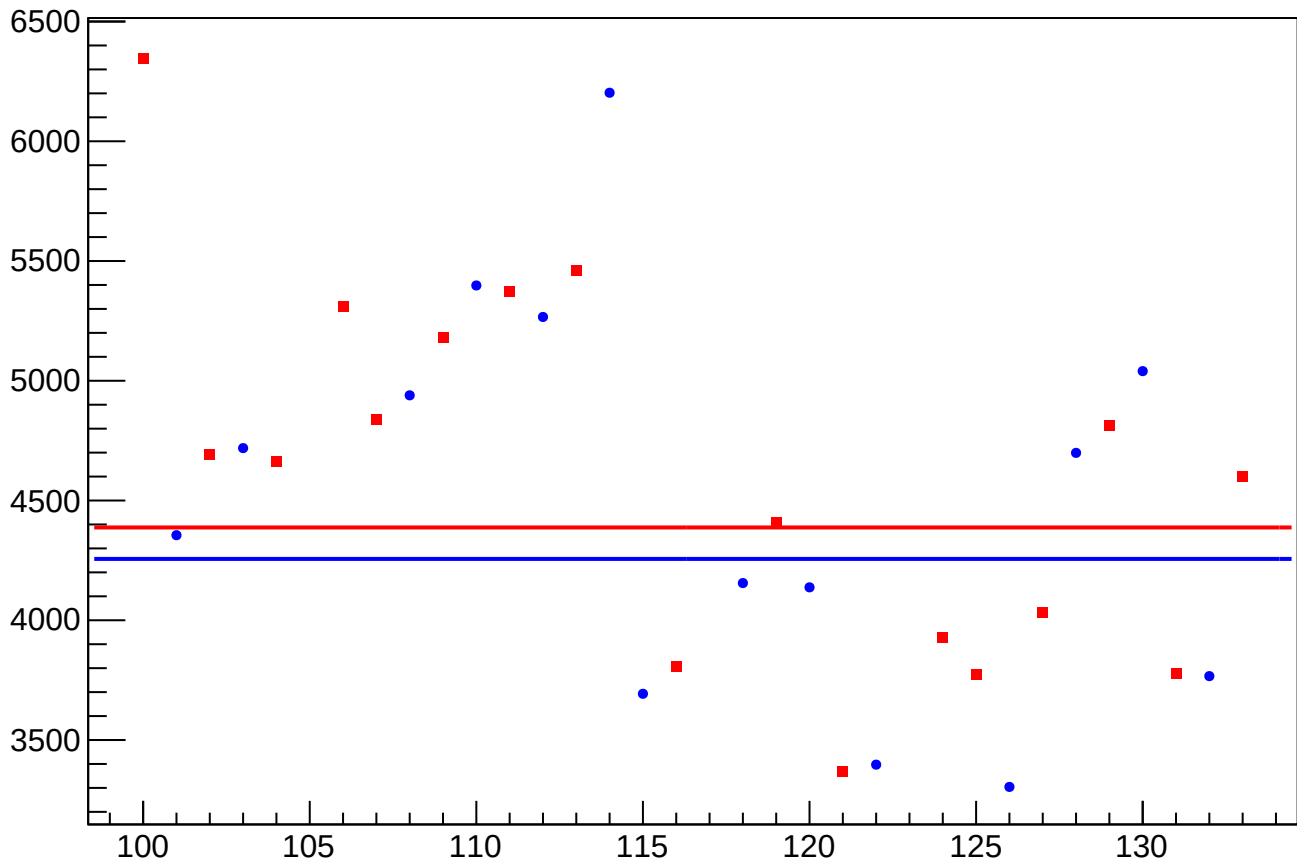
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -2053.065+/-1227.172  $\chi^2$ /NDF: 24.2/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_reg\_correction\_rms vs Slug



Right In: 4256.158+/-1.250  $\chi^2/\text{NDF}$ : 296517.3/13

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

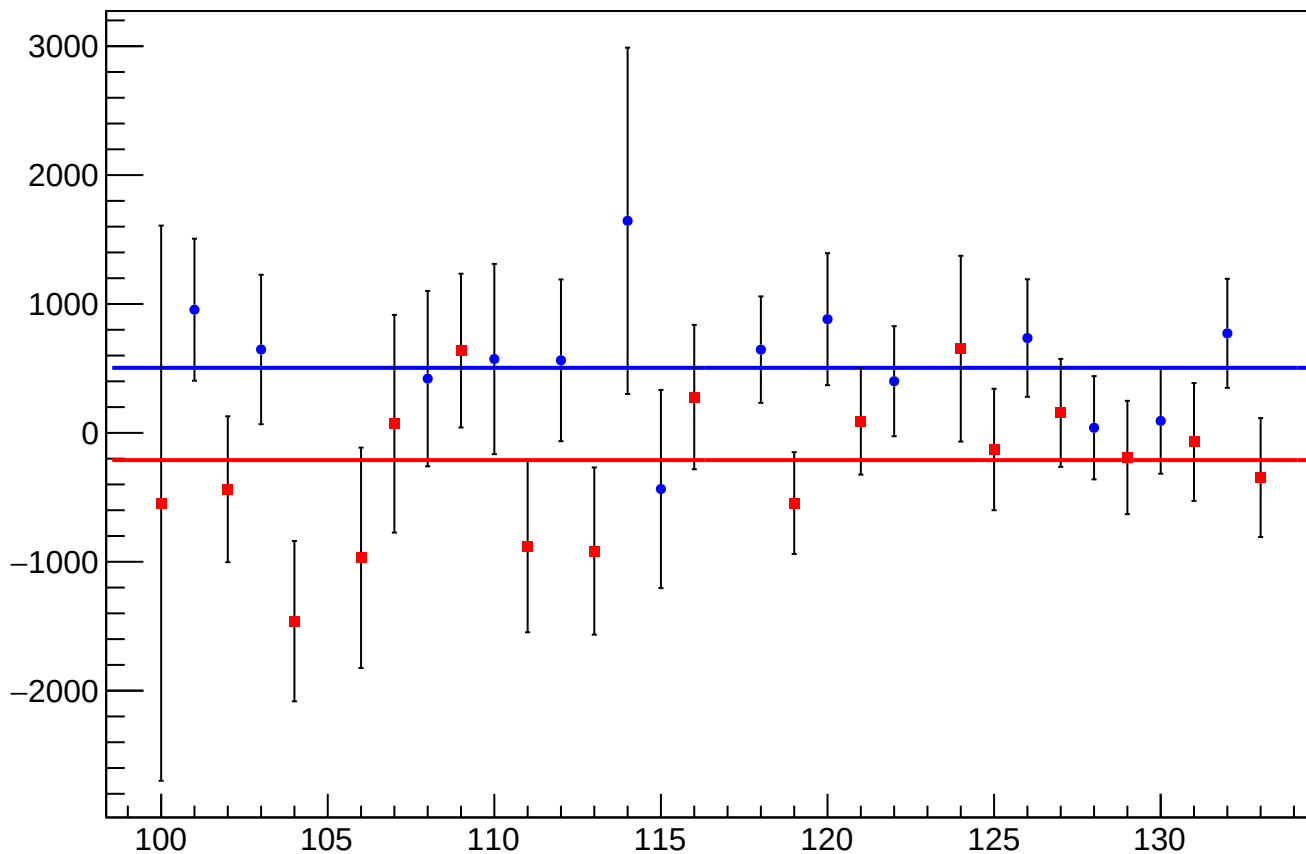
Right Out: 4387.475+/-1.206  $\chi^2/\text{NDF}$ : 288171.9/16

All: 4324.178+/-0.868  $\chi^2/\text{NDF}$ : 590407.1/30

- 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\_sam2\_mean vs Slug



Right In: 504.653+/-137.614  $\chi^2/\text{NDF}$ : 6.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -211.222+/-130.886  $\chi^2/\text{NDF}$ : 13.8/16

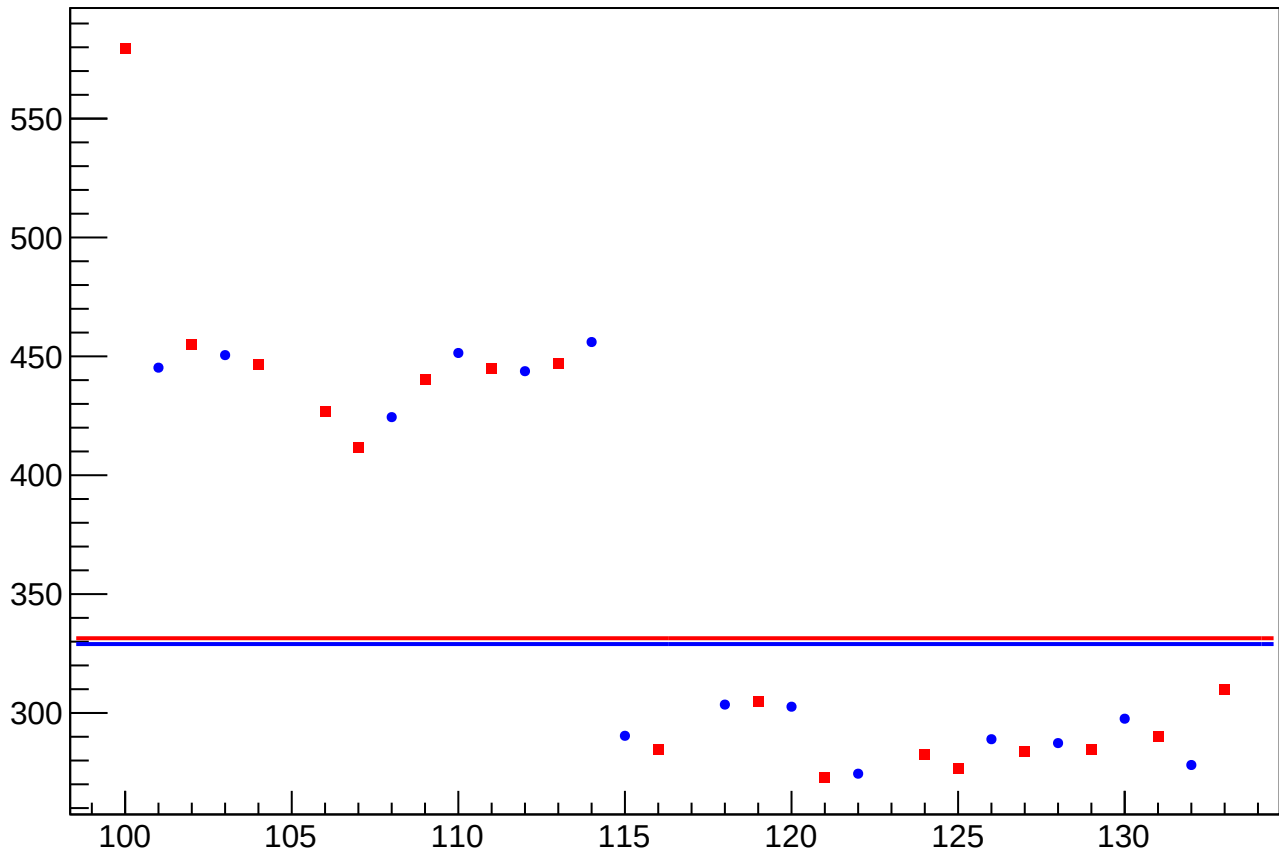
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 128.788+/-94.839  $\chi^2/\text{NDF}$ : 34.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam2\_rms vs Slug



Right In: 328.984 $\pm$ 0.097  $\chi^2$ /NDF: 484387.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 331.435 $\pm$ 0.093  $\chi^2$ /NDF: 590925.3/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

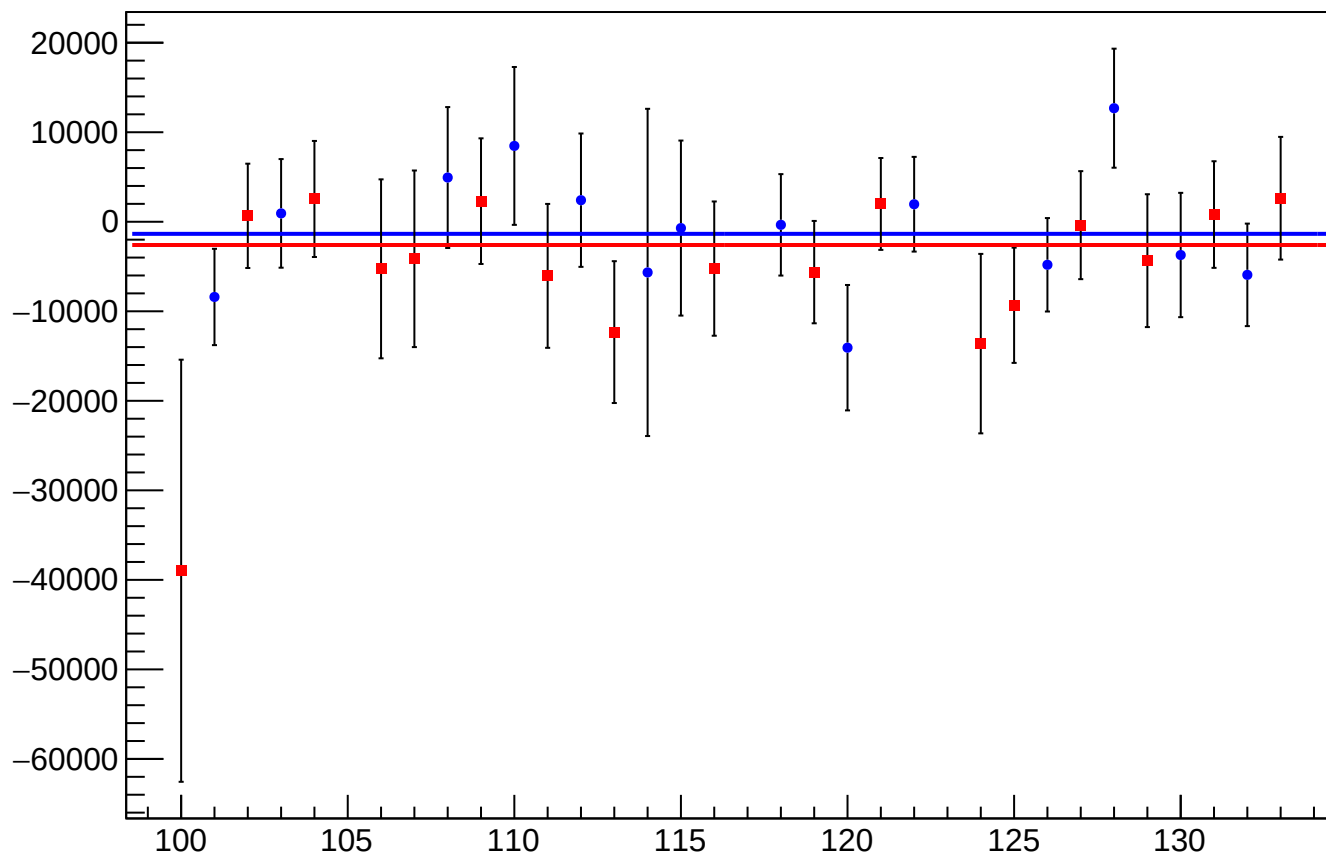
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 330.271 $\pm$ 0.067  $\chi^2$ /NDF: 1075646.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam2\_cor\_correction\_mean vs Slug



Right In: -1349.144+/-1767.564  $\chi^2$ /NDF: 13.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2595.408+/-1708.293  $\chi^2$ /NDF: 10.2/16

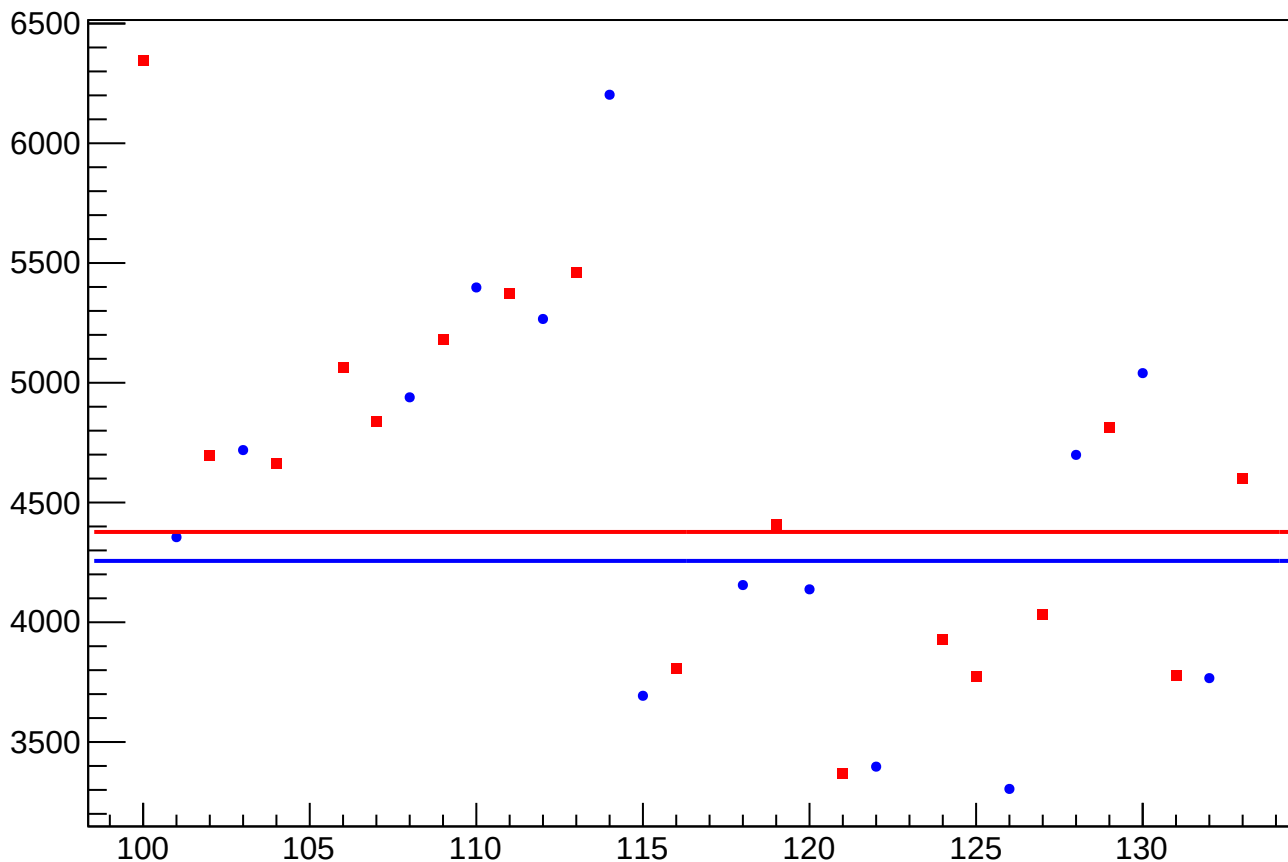
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1993.521+/-1228.365  $\chi^2$ /NDF: 23.9/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_cor\_correction\_rms vs Slug



Right In: 4256.169+/-1.250  $\chi^2/\text{NDF}$ : 296526.6/13

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

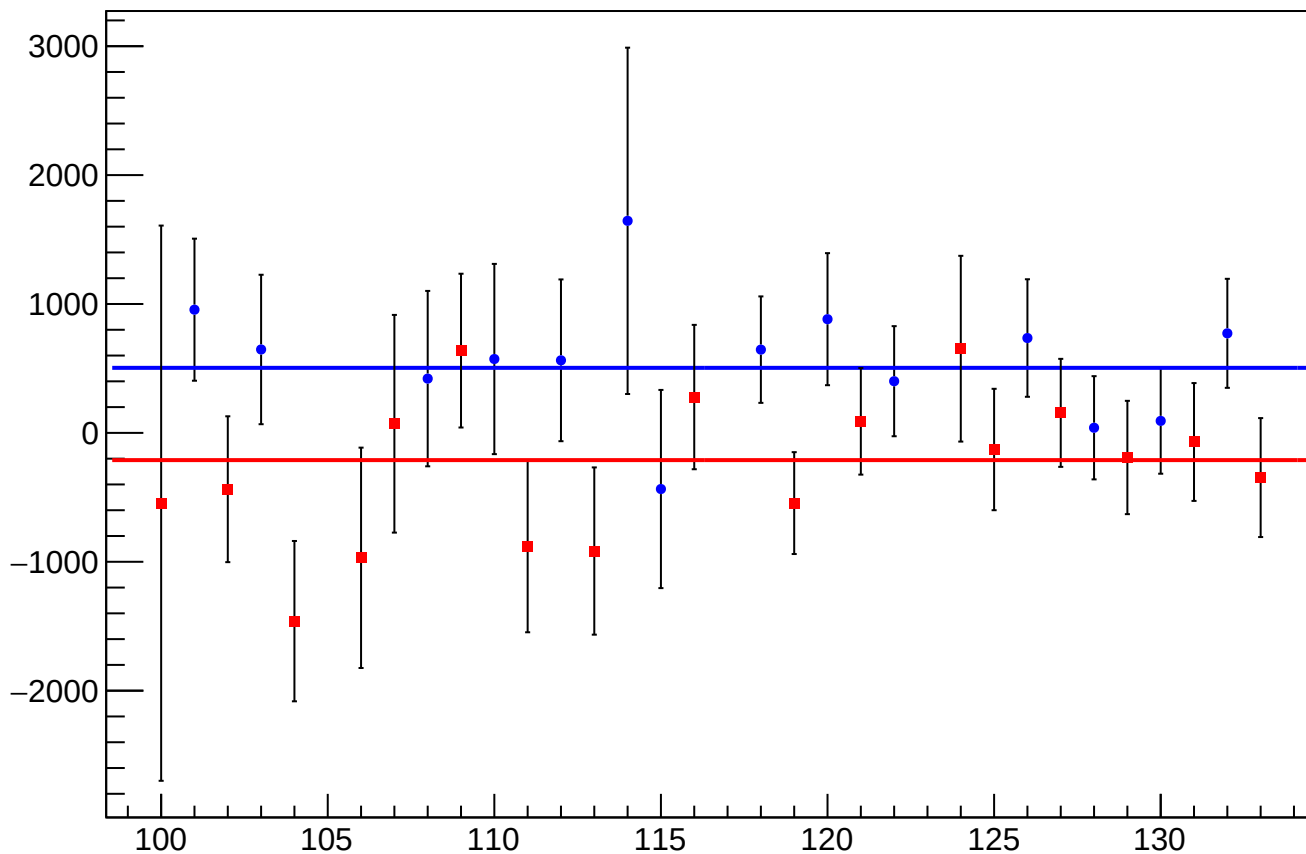
Right Out: 4377.095+/-1.208  $\chi^2/\text{NDF}$ : 278165.7/16

All: 4318.693+/-0.869  $\chi^2/\text{NDF}$ : 579532.4/30

- 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\_sam2\_mean vs Slug



Right In: 504.653+/-137.614  $\chi^2/\text{NDF}$ : 6.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -211.222+/-130.886  $\chi^2/\text{NDF}$ : 13.8/16

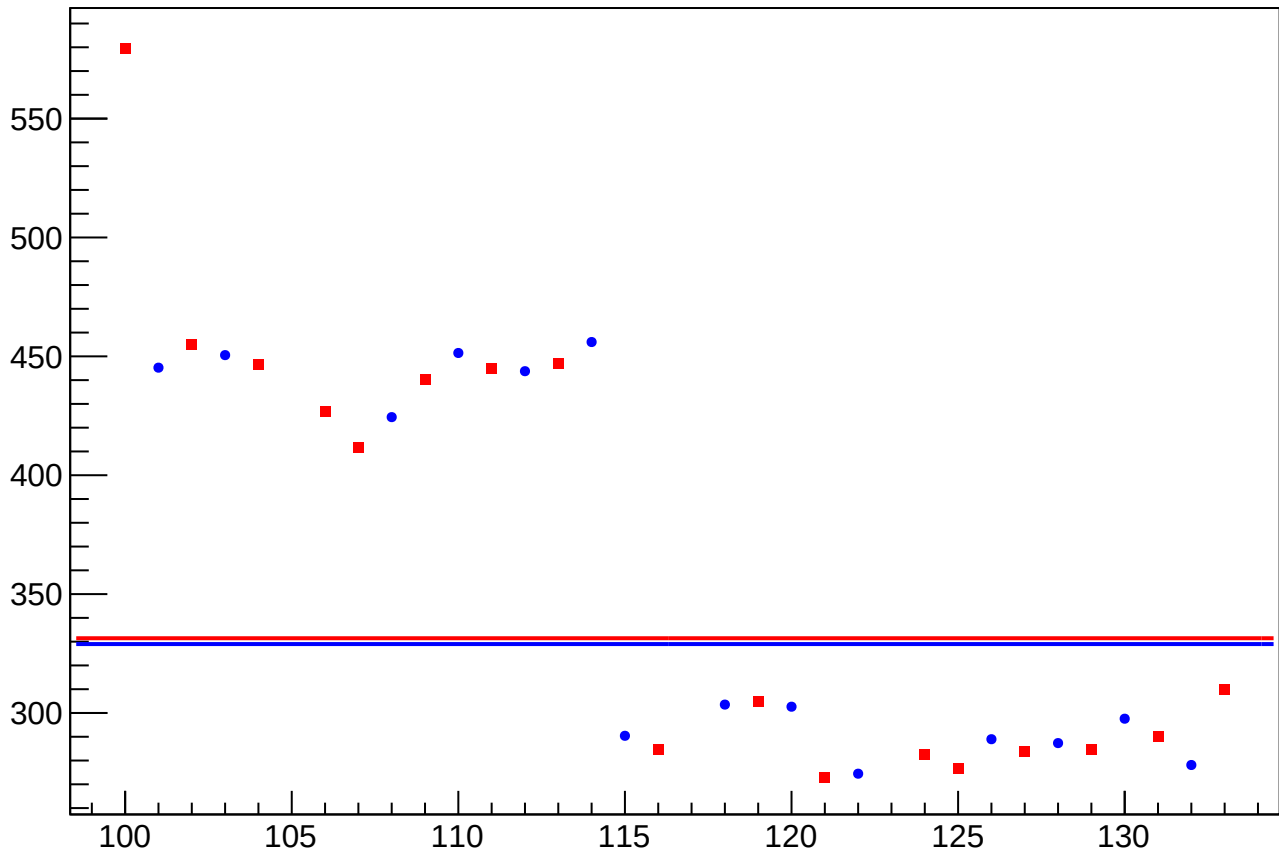
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 128.788+/-94.839  $\chi^2/\text{NDF}$ : 34.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam2\_rms vs Slug



Right In: 328.984+/-0.097  $\chi^2/\text{NDF}$ : 484387.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 331.435+/-0.093  $\chi^2/\text{NDF}$ : 590925.3/16

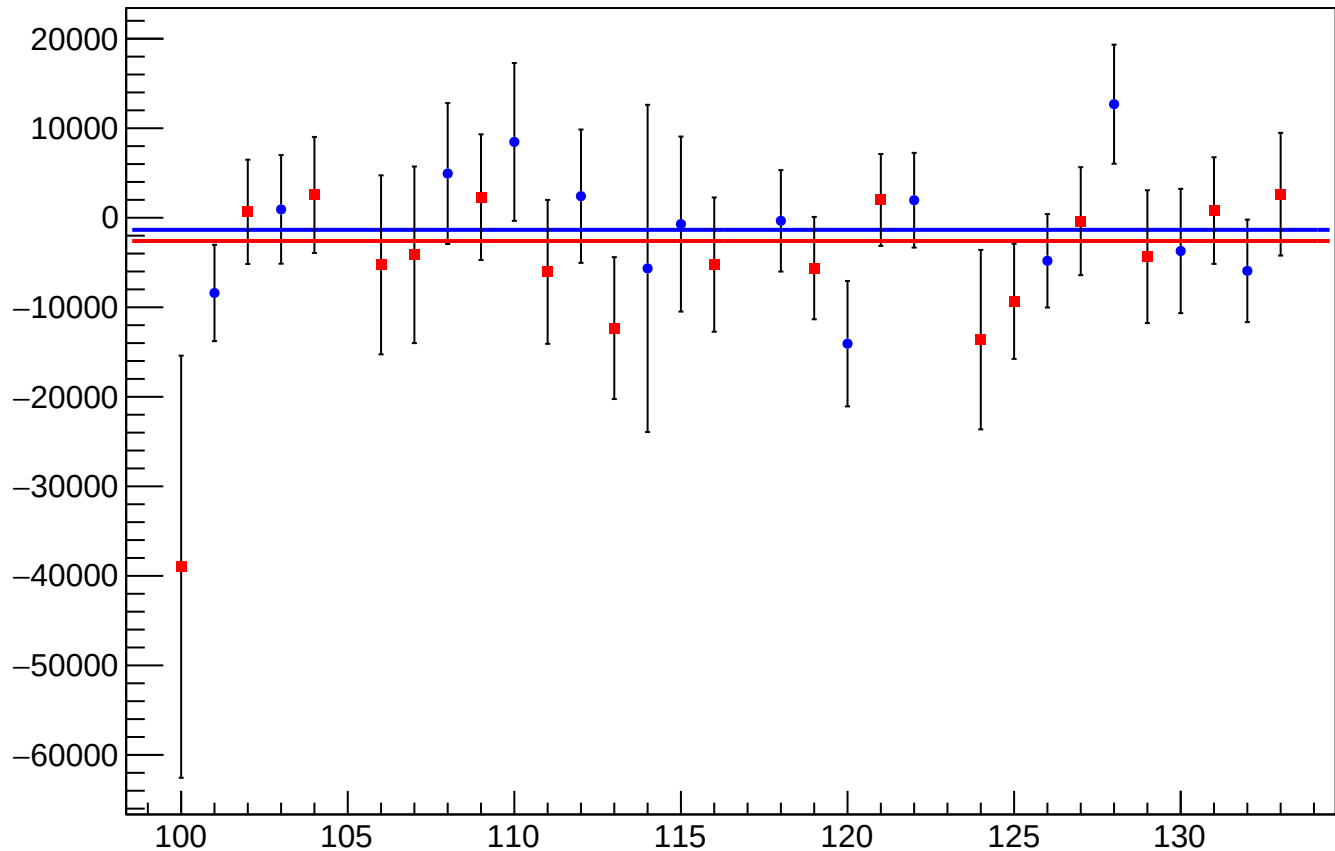
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 330.271+/-0.067  $\chi^2/\text{NDF}$ : 1075646.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_cor\_correction\_mean vs Slug



Right In: -1349.144+/-1767.564  $\chi^2/\text{NDF}$ : 13.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2595.408+/-1708.293  $\chi^2/\text{NDF}$ : 10.2/16

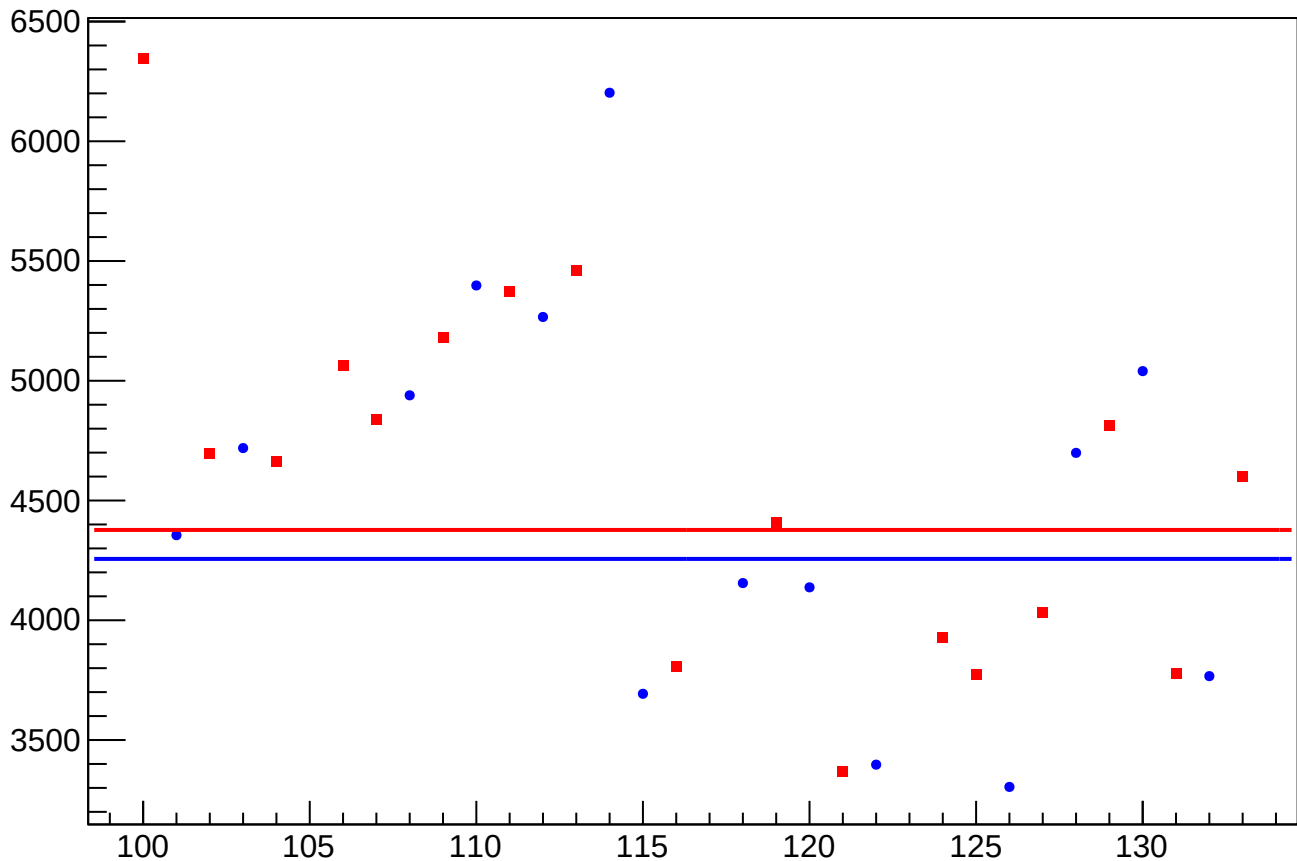
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1993.521+/-1228.365  $\chi^2/\text{NDF}$ : 23.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_cor\_correction\_rms vs Slug



Right In: 4256.169+/-1.250  $\chi^2/\text{NDF}$ : 296526.6/13

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

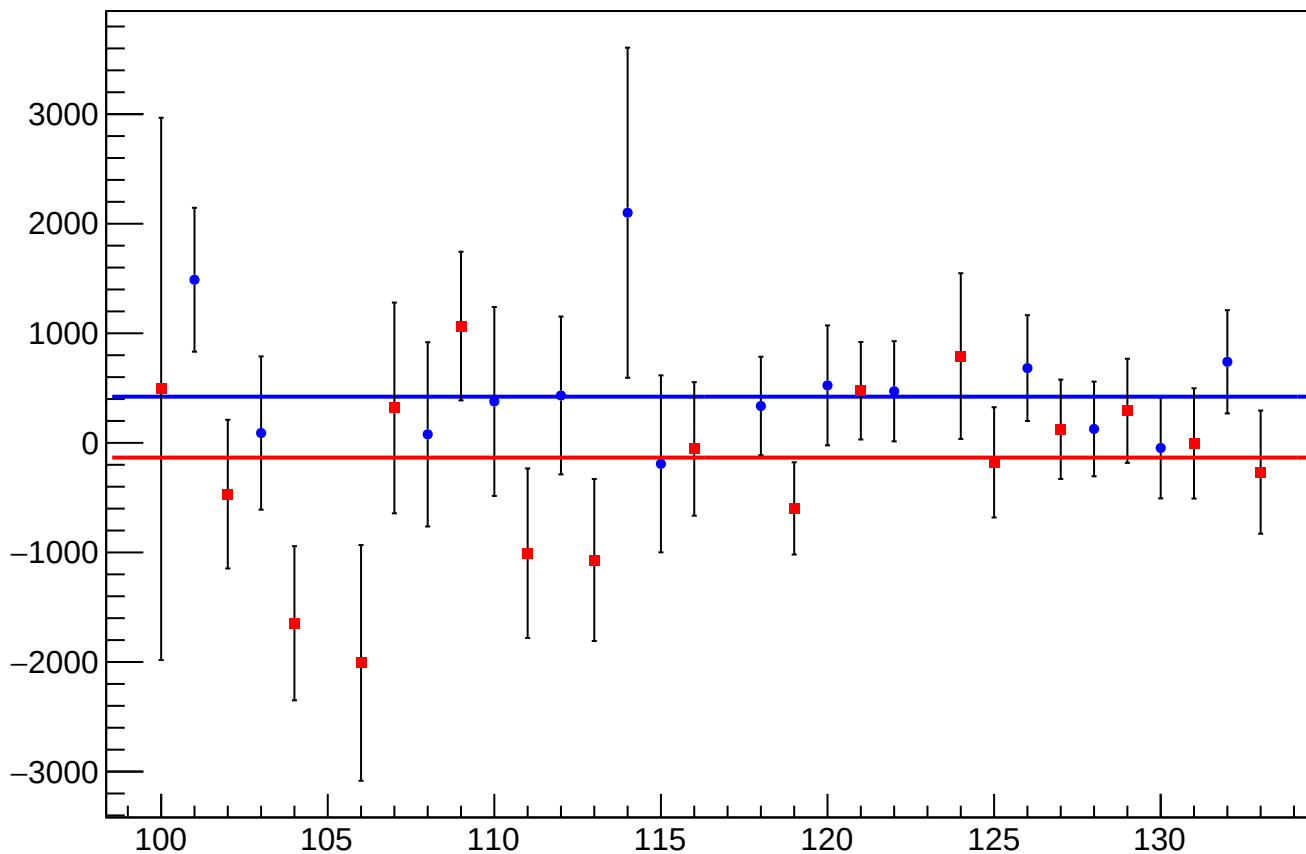
Right Out: 4377.095+/-1.208  $\chi^2/\text{NDF}$ : 278165.7/16

All: 4318.693+/-0.869  $\chi^2/\text{NDF}$ : 579532.4/30

- 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\_sam2\_mean vs Slug



Right In: 421.604 $\pm$ 152.557  $\chi^2$ /NDF: 7.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -134.401 $\pm$ 145.134  $\chi^2$ /NDF: 20.1/16

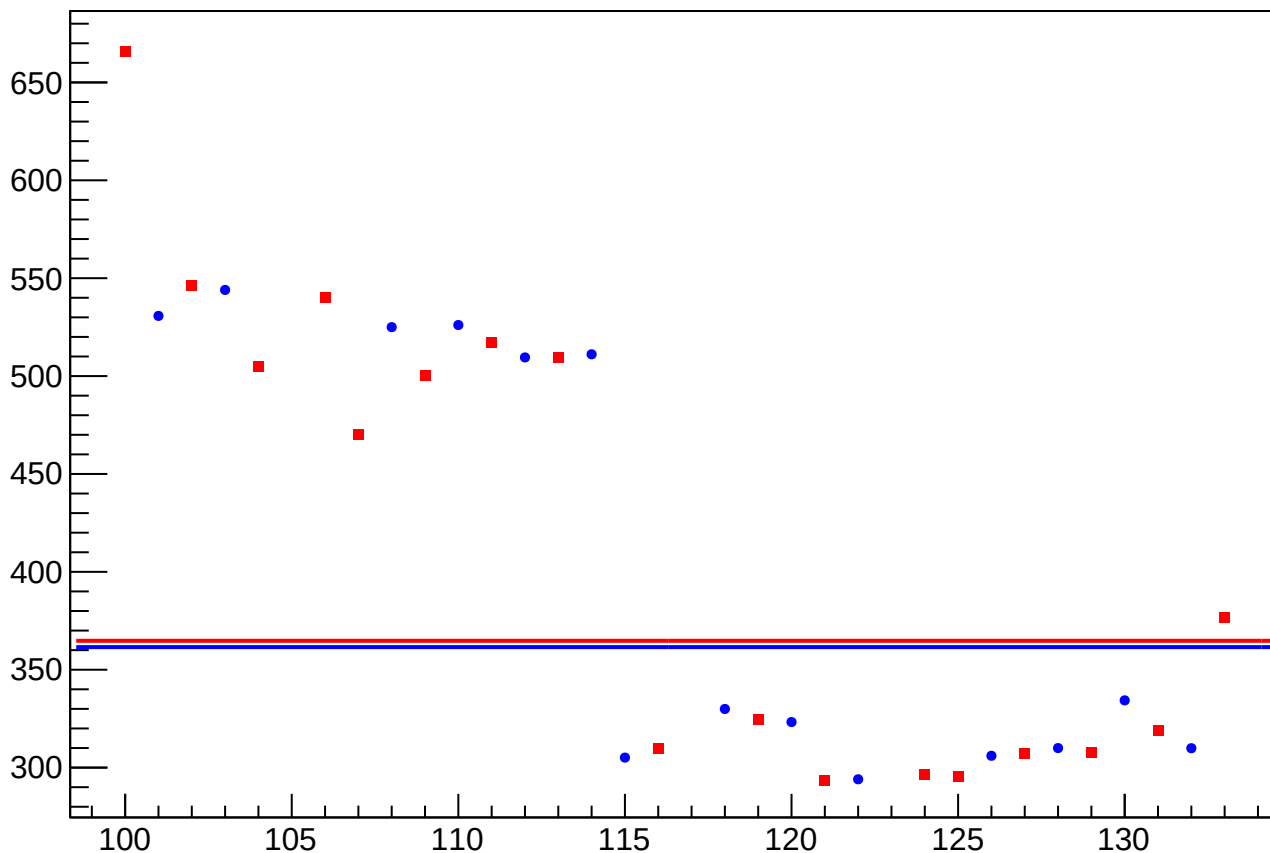
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 129.745 $\pm$ 105.152  $\chi^2$ /NDF: 34.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam2\_rms vs Slug



Right In: 361.548+/-0.108  $\chi^2/\text{NDF}$ : 680269.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 364.788+/-0.103  $\chi^2/\text{NDF}$ : 782350.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

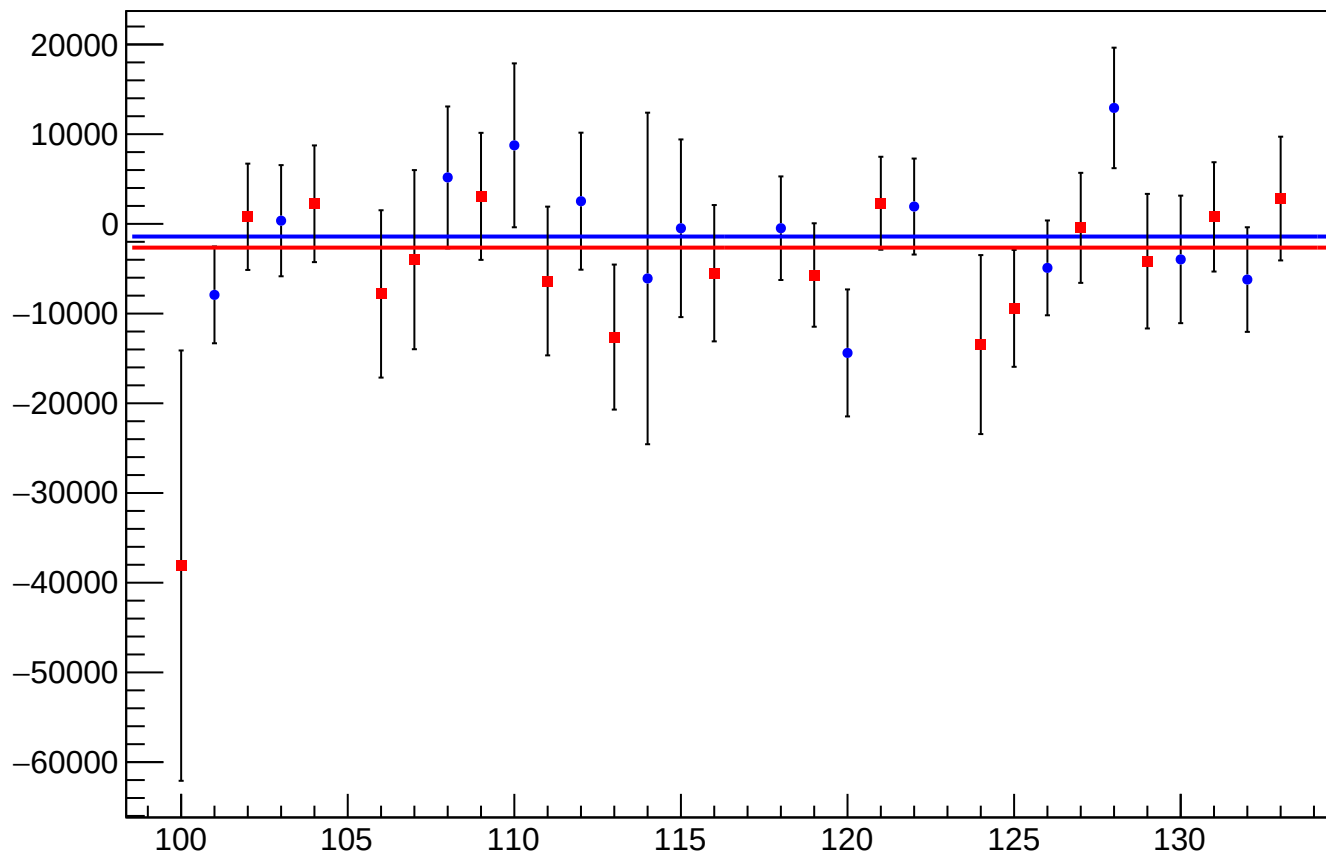
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 363.249+/-0.074  $\chi^2/\text{NDF}$ : 1463093.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam2\_dit\_correction\_mean vs Slug



Right In:  $-1411.948 \pm 1794.035$   $\chi^2/\text{NDF}$ : 13.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2646.419 \pm 1725.834$   $\chi^2/\text{NDF}$ : 10.5/16

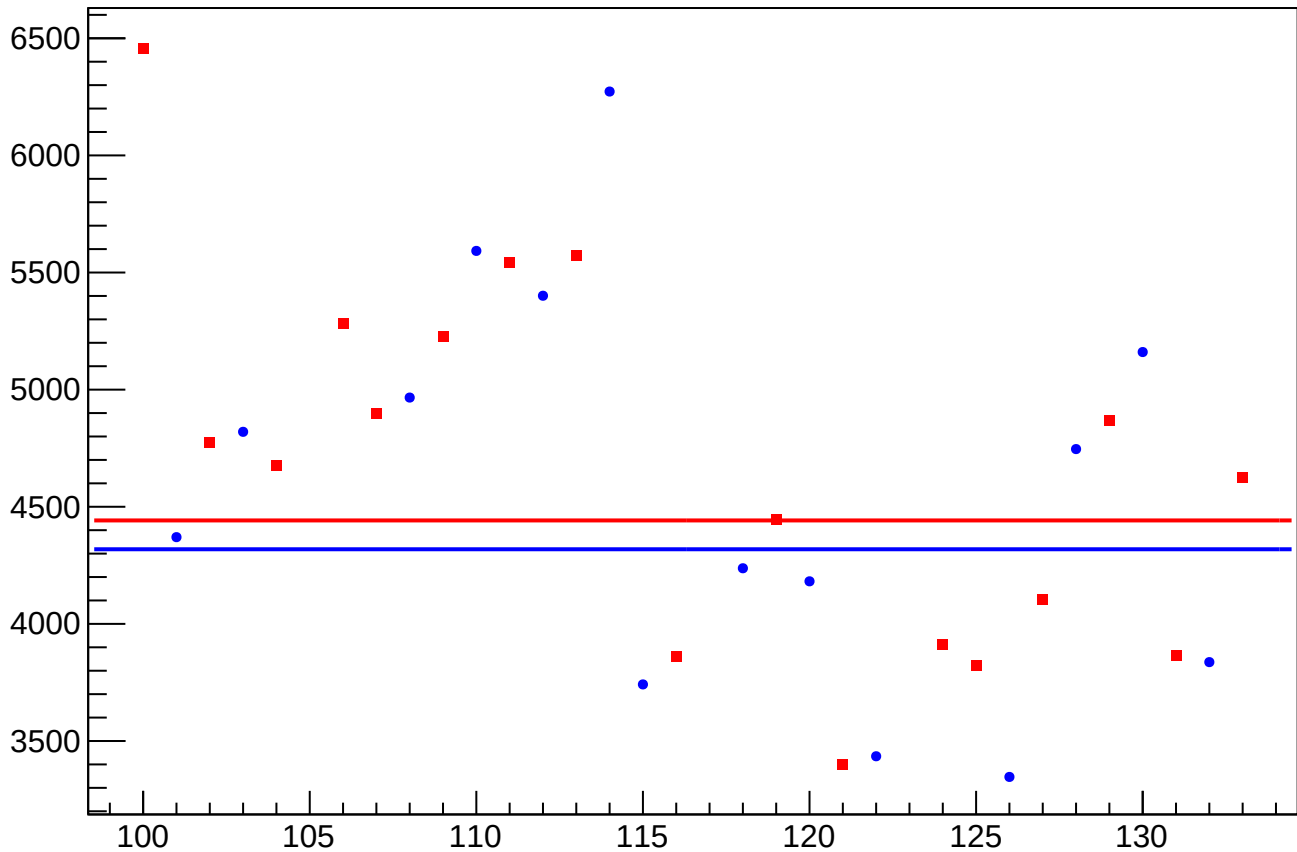
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2053.094 \pm 1243.761$   $\chi^2/\text{NDF}$ : 24.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_dit\_correction\_rms vs Slug



Right In: 4318.568+/-1.269  $\chi^2/\text{NDF}$ : 308052.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4441.651+/-1.220  $\chi^2/\text{NDF}$ : 290790.0/16

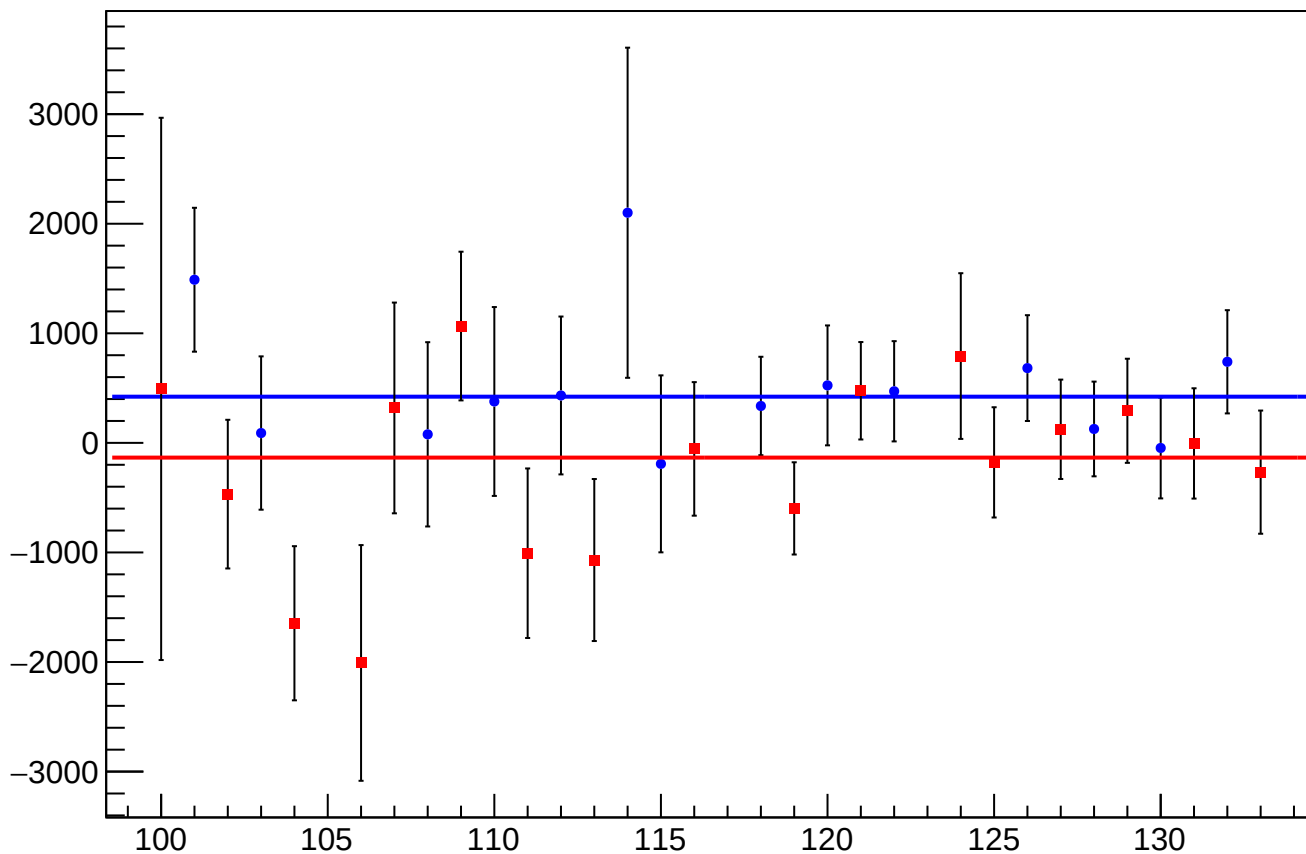
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4382.494+/-0.879  $\chi^2/\text{NDF}$ : 603731.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam2\_mean vs Slug



Right In: 421.602 $\pm$ 152.556  $\chi^2$ /NDF: 7.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -134.398 $\pm$ 145.133  $\chi^2$ /NDF: 20.1/16

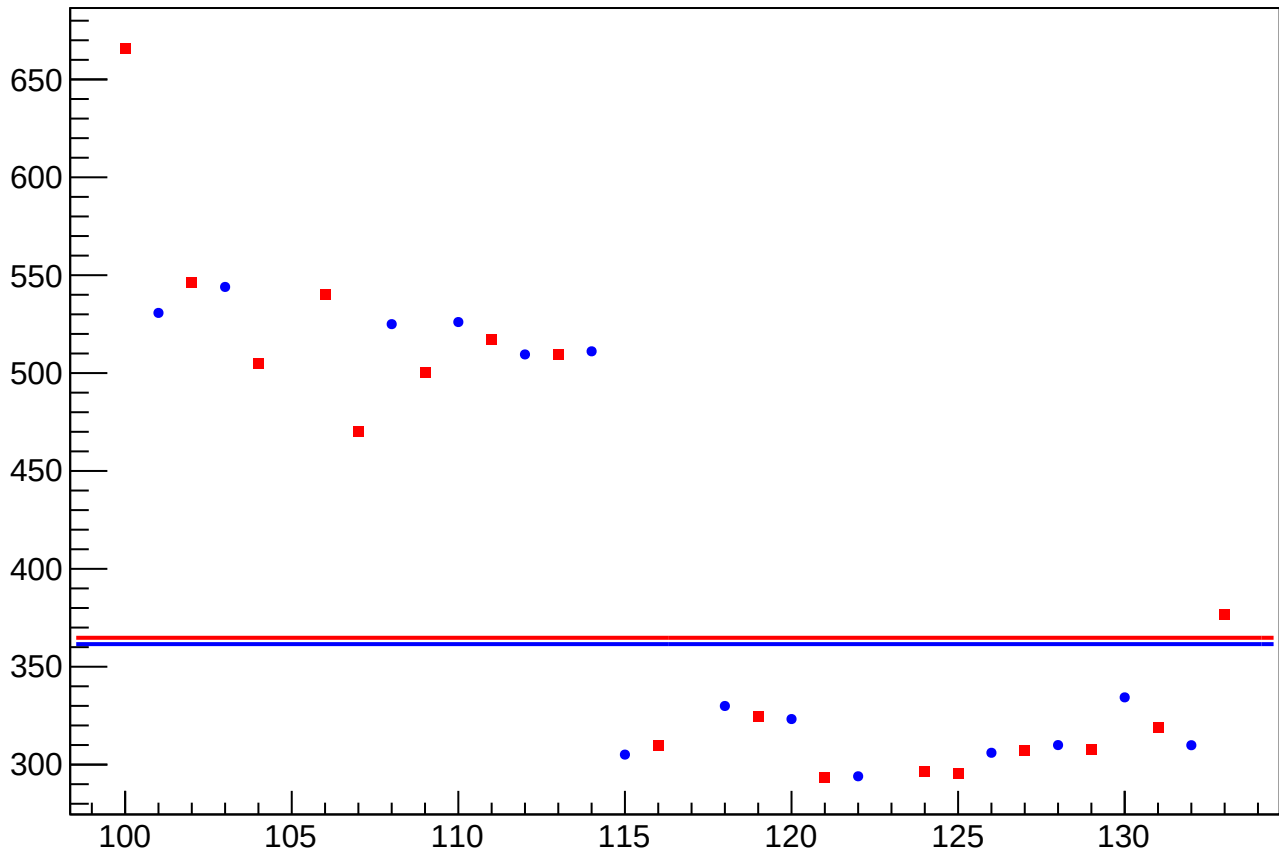
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 129.747 $\pm$ 105.151  $\chi^2$ /NDF: 34.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam2\_rms vs Slug



Right In: 361.545 $\pm$ 0.108  $\chi^2$ /NDF: 680269.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 364.786 $\pm$ 0.103  $\chi^2$ /NDF: 782342.9/16

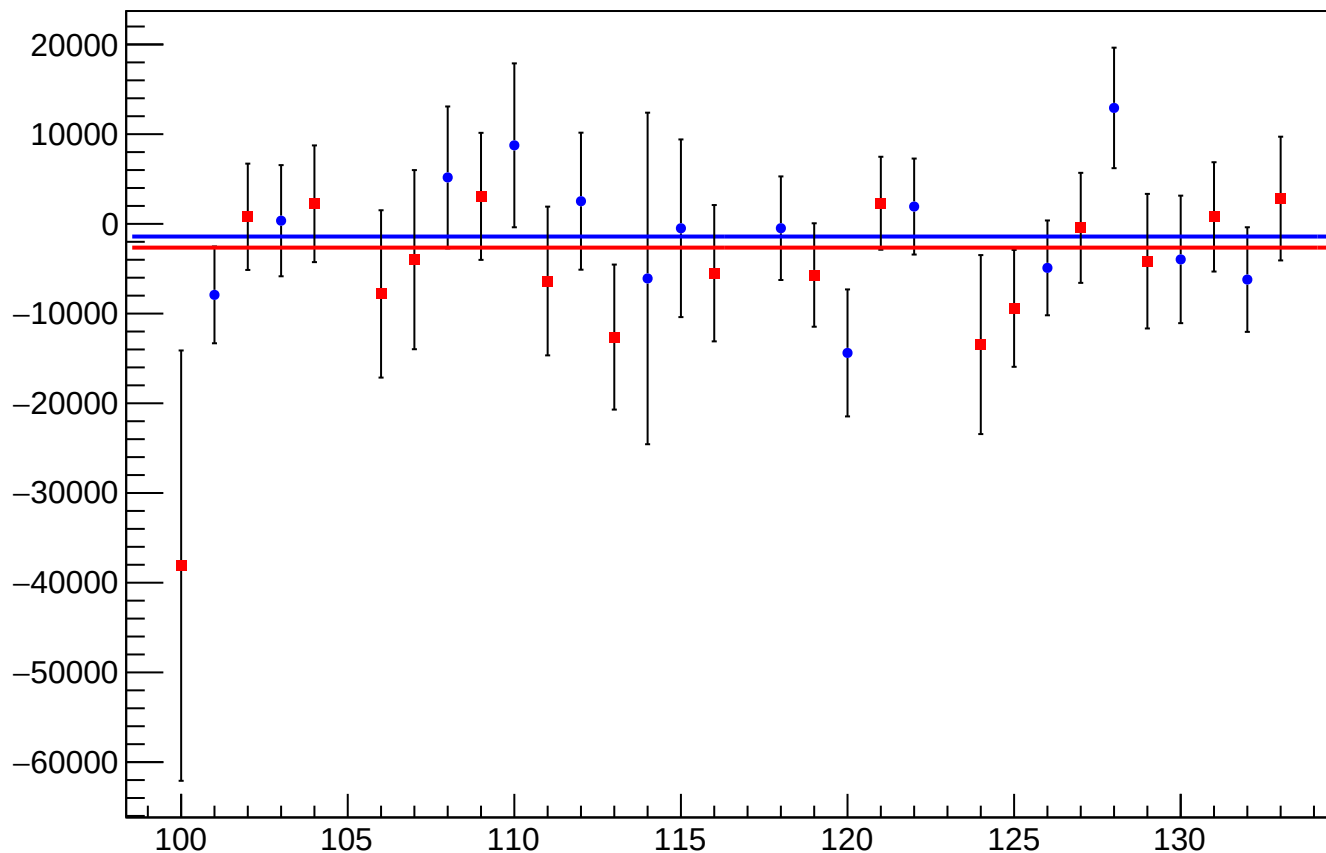
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 363.246 $\pm$ 0.074  $\chi^2$ /NDF: 1463085.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_eigen\_dit\_correction\_mean vs Slug



Right In: -1411.946 $\pm$ 1794.031  $\chi^2$ /NDF: 13.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2646.414 $\pm$ 1725.830  $\chi^2$ /NDF: 10.5/16

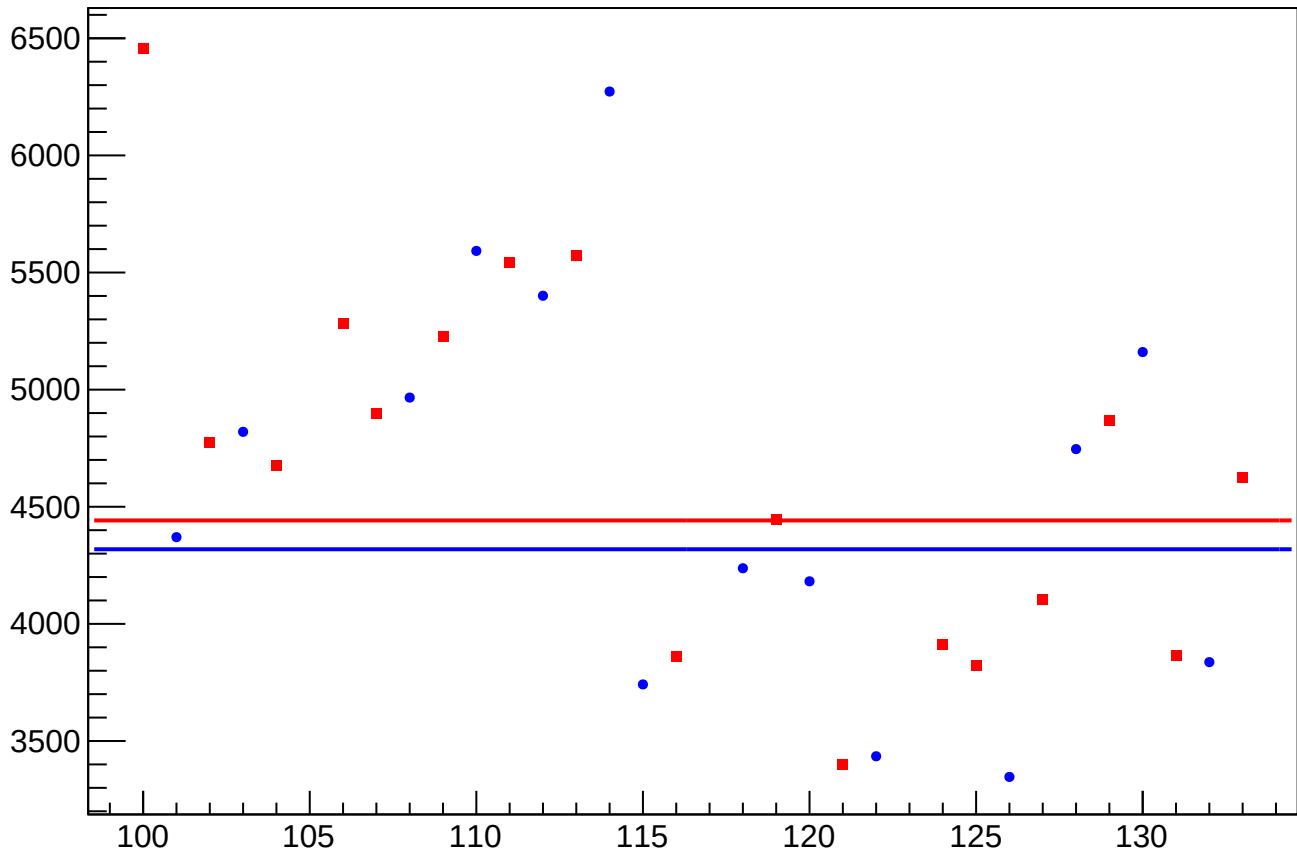
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2053.090 $\pm$ 1243.758  $\chi^2$ /NDF: 24.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_eigen\_dit\_correction\_rms vs Slug



Right In: 4318.558+/-1.269  $\chi^2/\text{NDF}$ : 308046.2/13

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

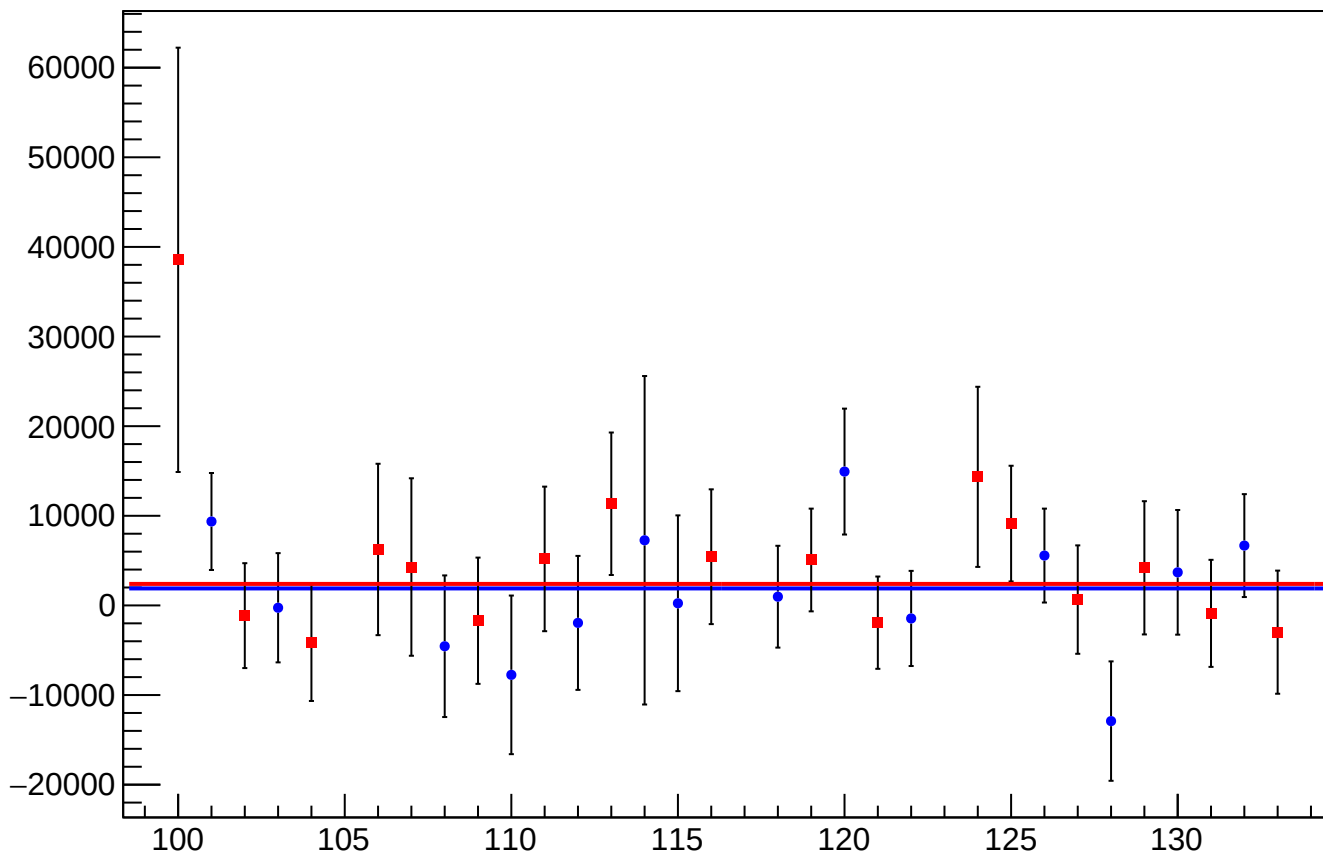
Right Out: 4441.642+/-1.220  $\chi^2/\text{NDF}$ : 290785.9/16

All: 4382.484+/-0.879  $\chi^2/\text{NDF}$ : 603721.3/30

- 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\_sam2\_mean vs Slug



Right In: 1894.513+/-1773.640  $\chi^2/\text{NDF}$ : 14.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2399.080+/-1711.209  $\chi^2/\text{NDF}$ : 10.3/16

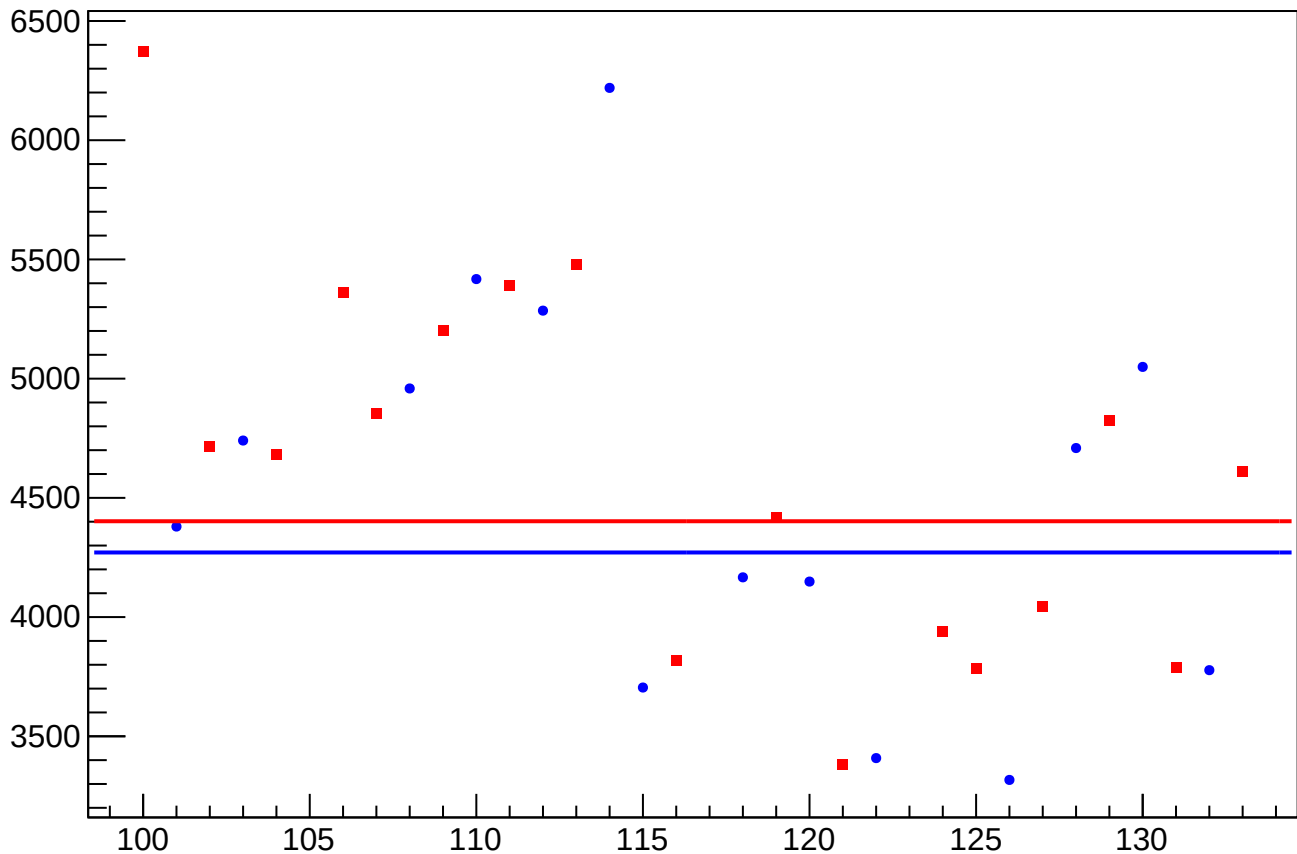
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2155.833+/-1231.487  $\chi^2/\text{NDF}$ : 24.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_rms vs Slug



Right In:  $4270.932 \pm 1.254$   $\chi^2/\text{NDF}: 296379.1/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $4401.950 \pm 1.210$   $\chi^2/\text{NDF}: 289932.4/16$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

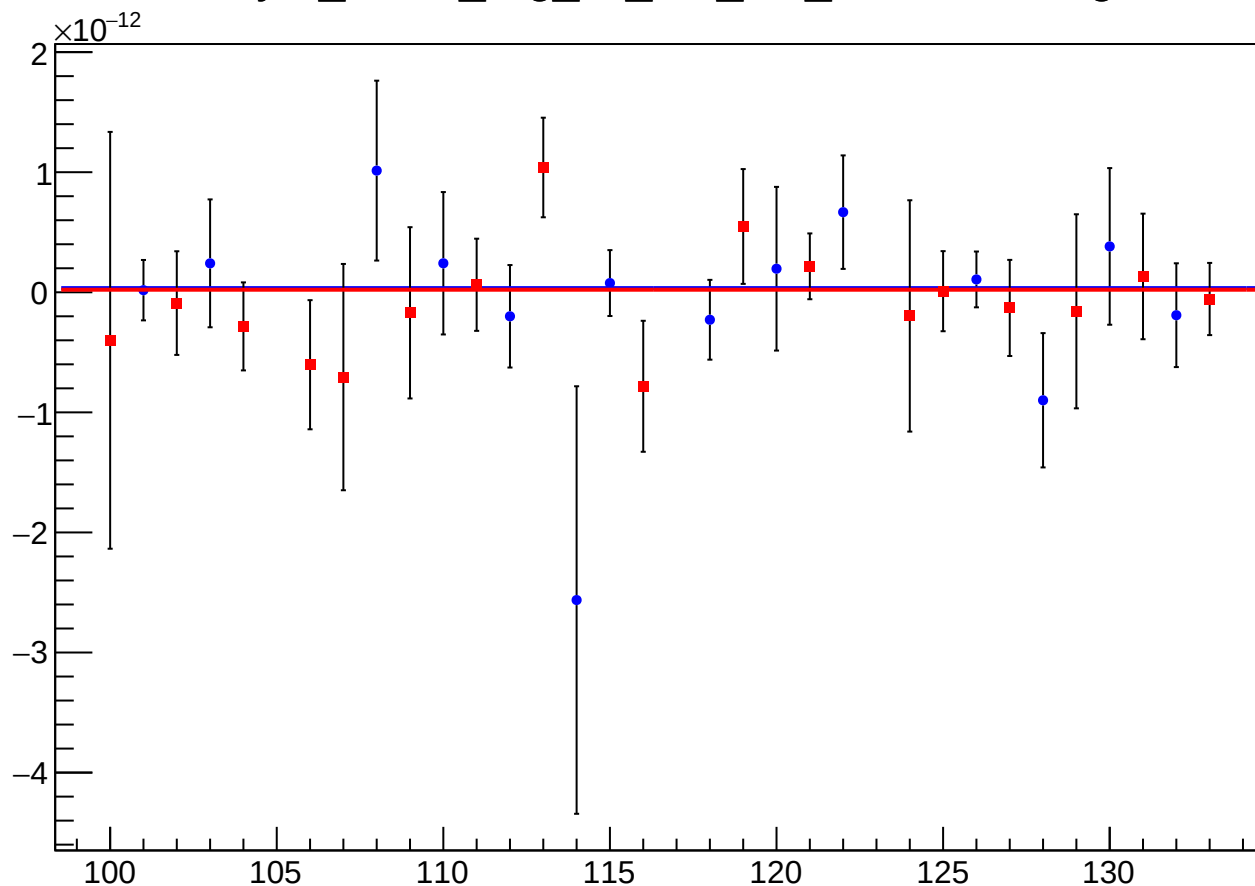
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $4338.788 \pm 0.871$   $\chi^2/\text{NDF}: 591963.7/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$



# asym\_sam2\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 10.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 13.1/16

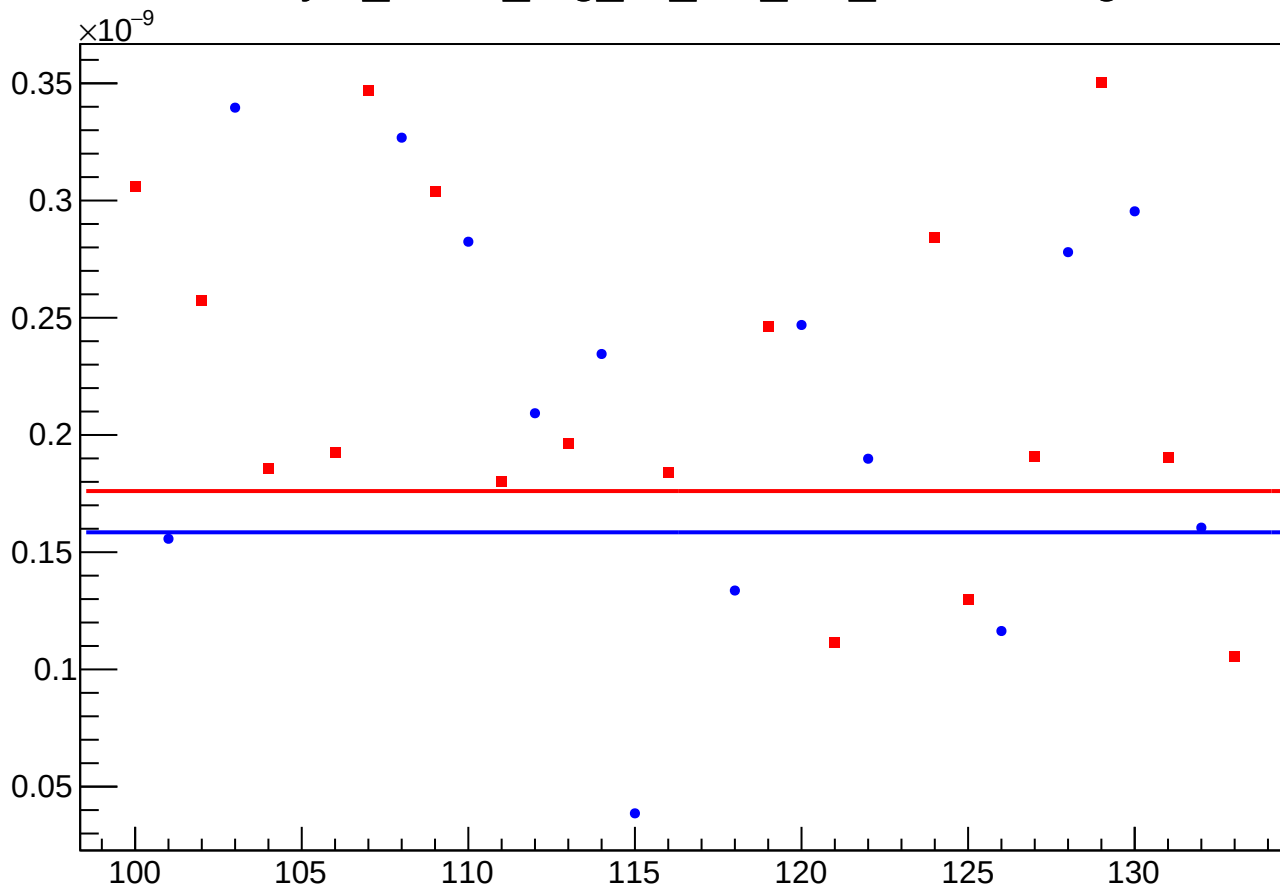
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 23.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 1132537.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 646033.4/16

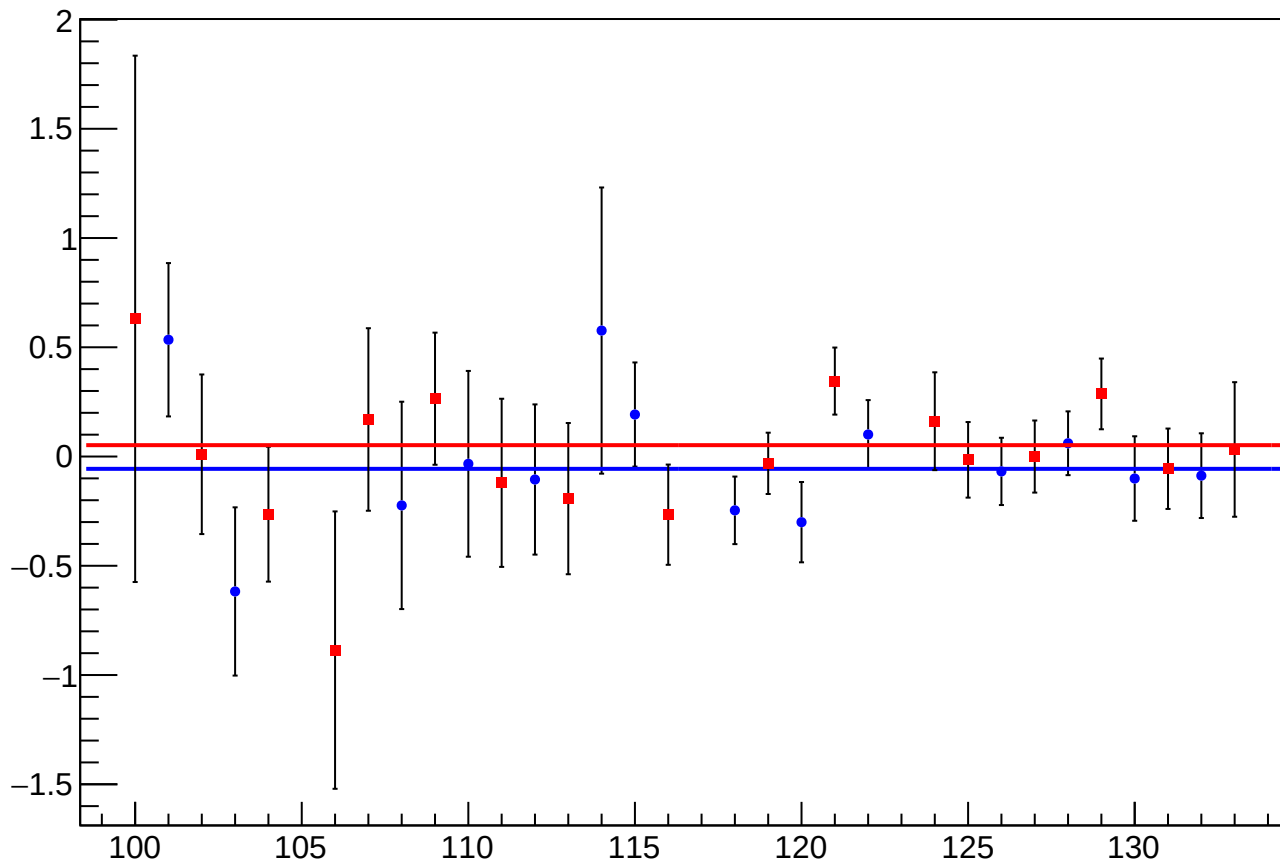
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 1805505.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.056 $\pm$ 0.057  $\chi^2$ /NDF: 12.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.052 $\pm$ 0.055  $\chi^2$ /NDF: 13.6/16

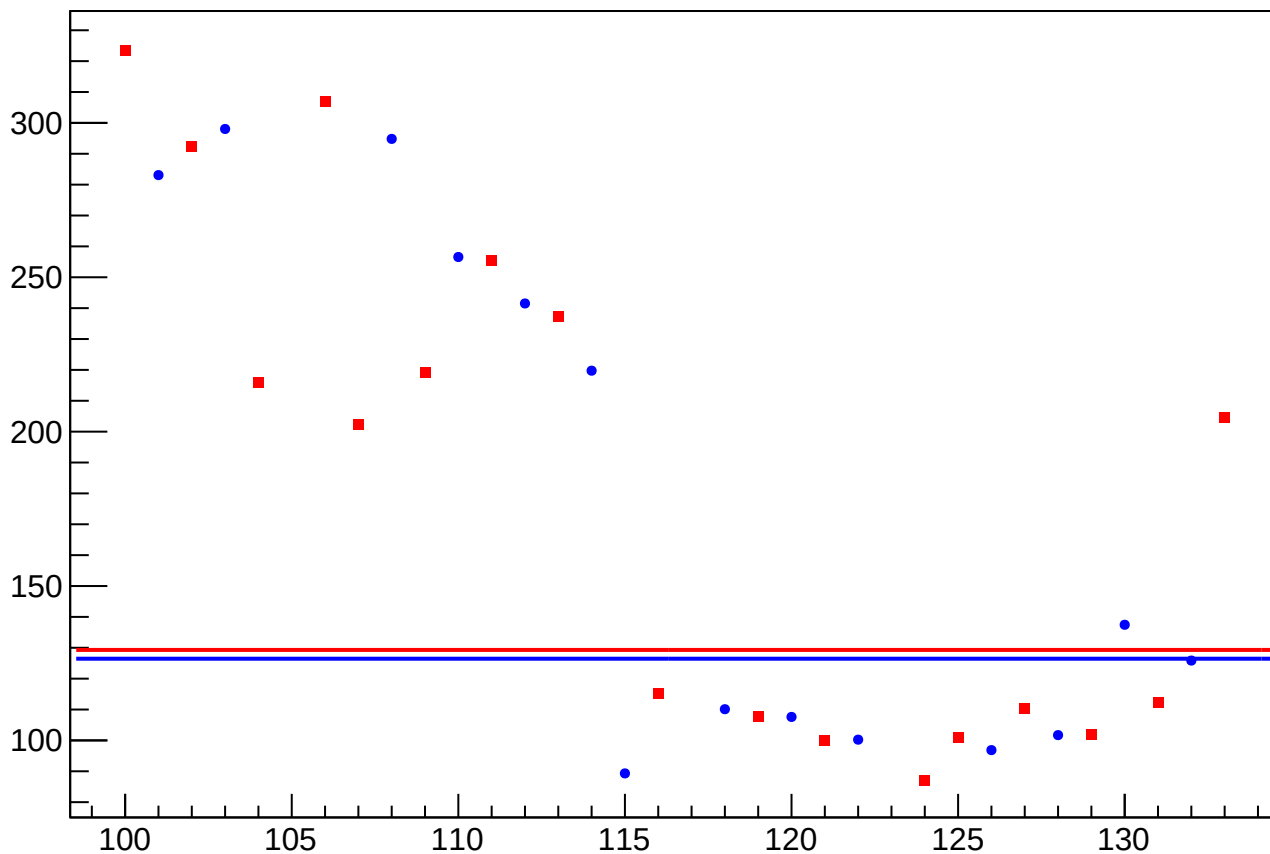
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.039  $\chi^2$ /NDF: 27.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 126.460 $\pm$ 0.040  $\chi^2$ /NDF: 1784861.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 129.305 $\pm$ 0.039  $\chi^2$ /NDF: 1886133.2/16

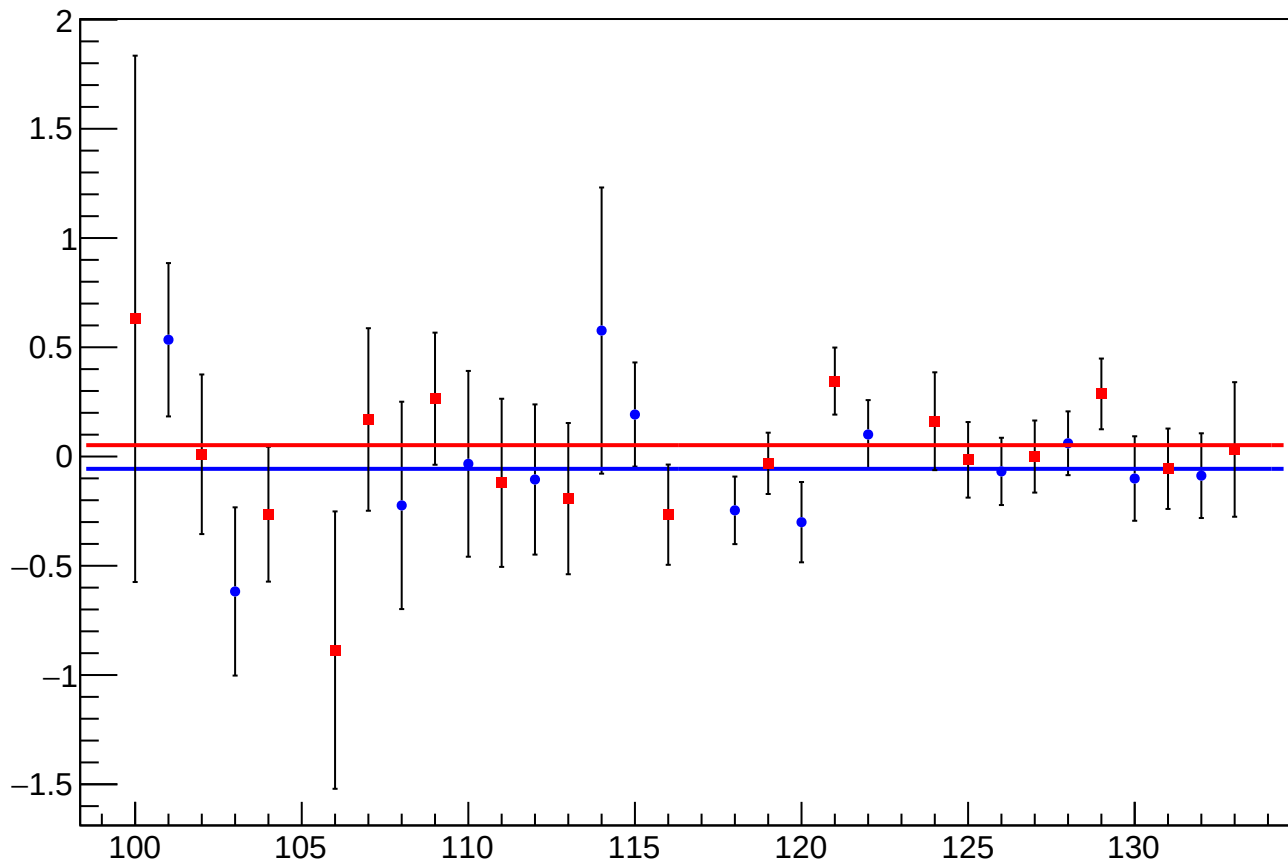
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 127.940 $\pm$ 0.028  $\chi^2$ /NDF: 3673584.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam2\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.056+/-0.057  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.052+/-0.055  $\chi^2/\text{NDF}$ : 13.6/16

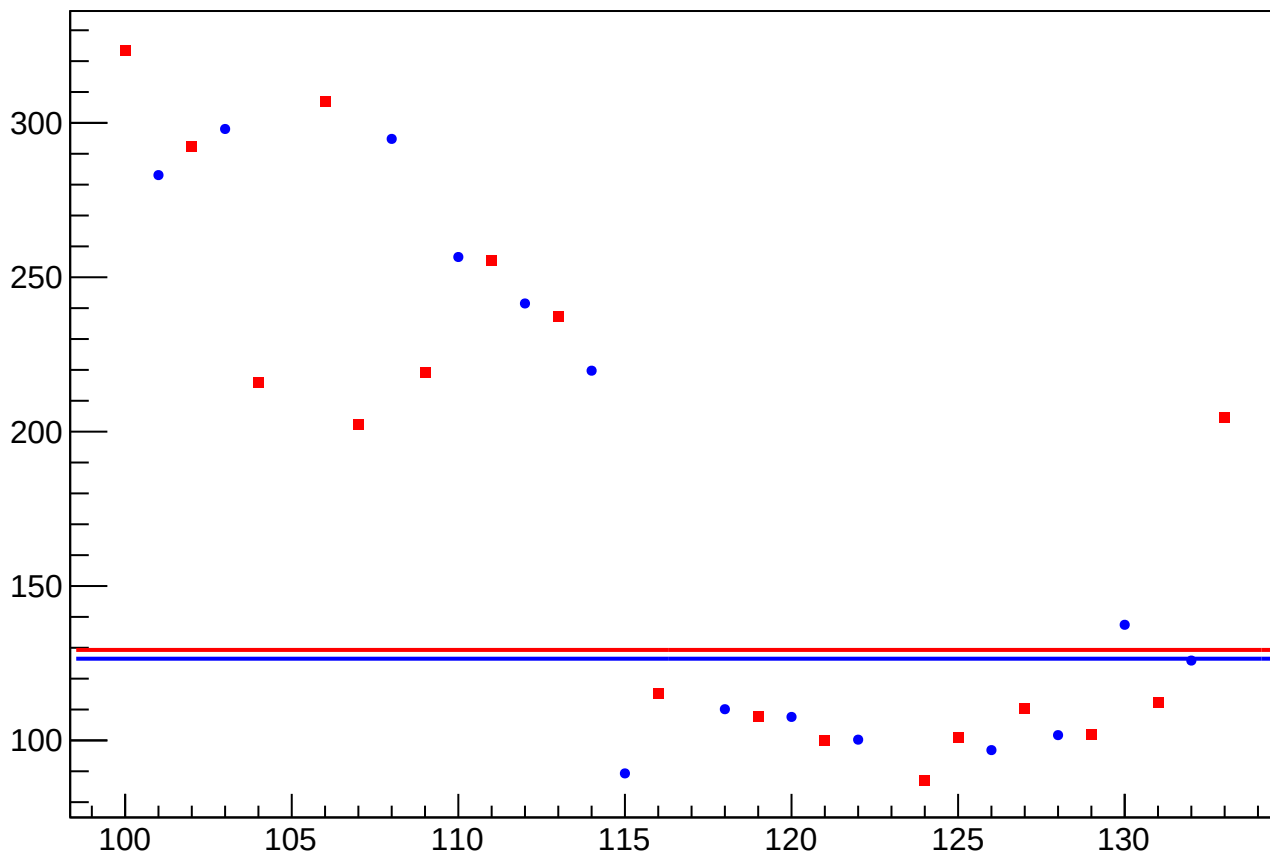
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.039  $\chi^2/\text{NDF}$ : 27.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 126.460 $\pm$ 0.040  $\chi^2$ /NDF: 1784861.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 129.305 $\pm$ 0.039  $\chi^2$ /NDF: 1886133.2/16

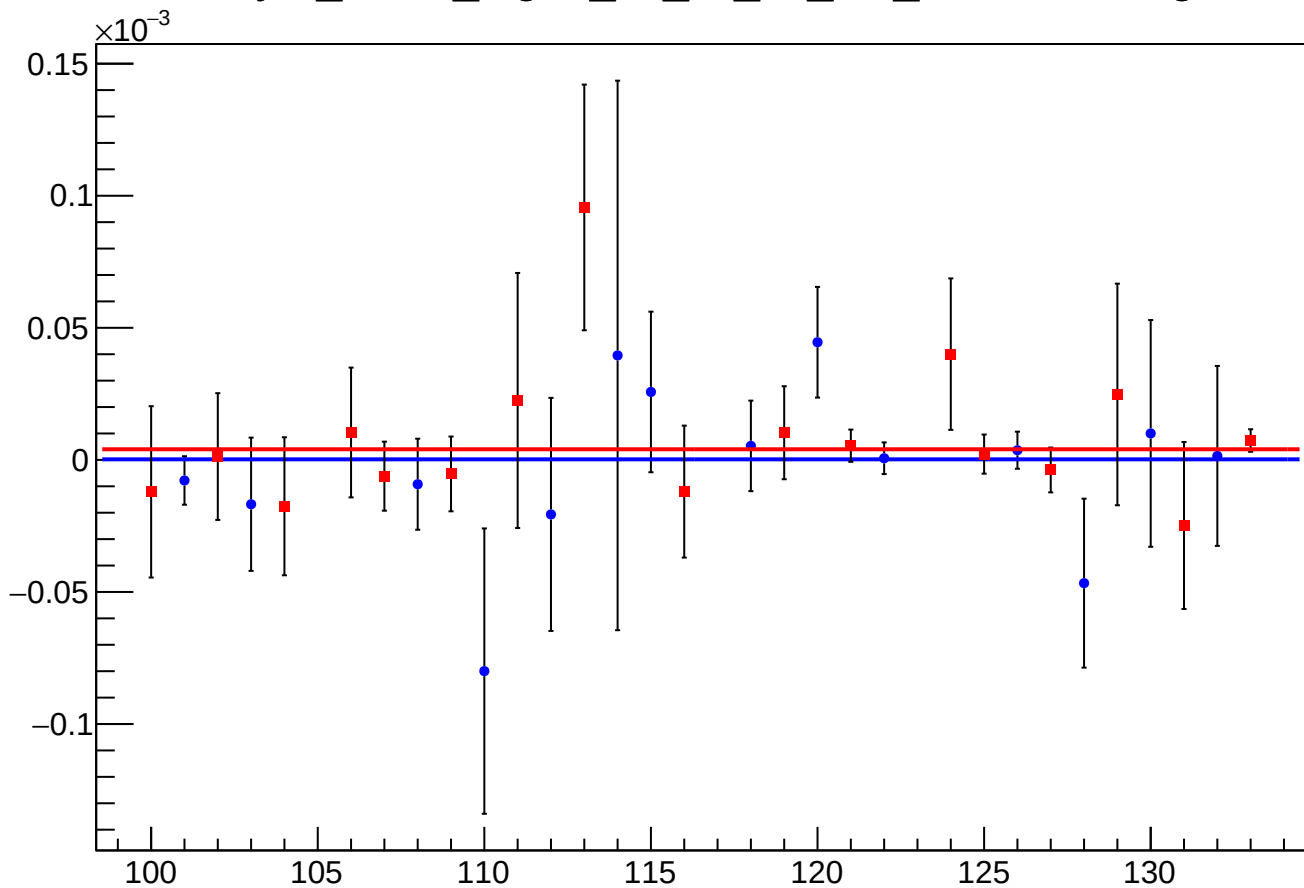
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 127.940 $\pm$ 0.028  $\chi^2$ /NDF: 3673584.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.8/16

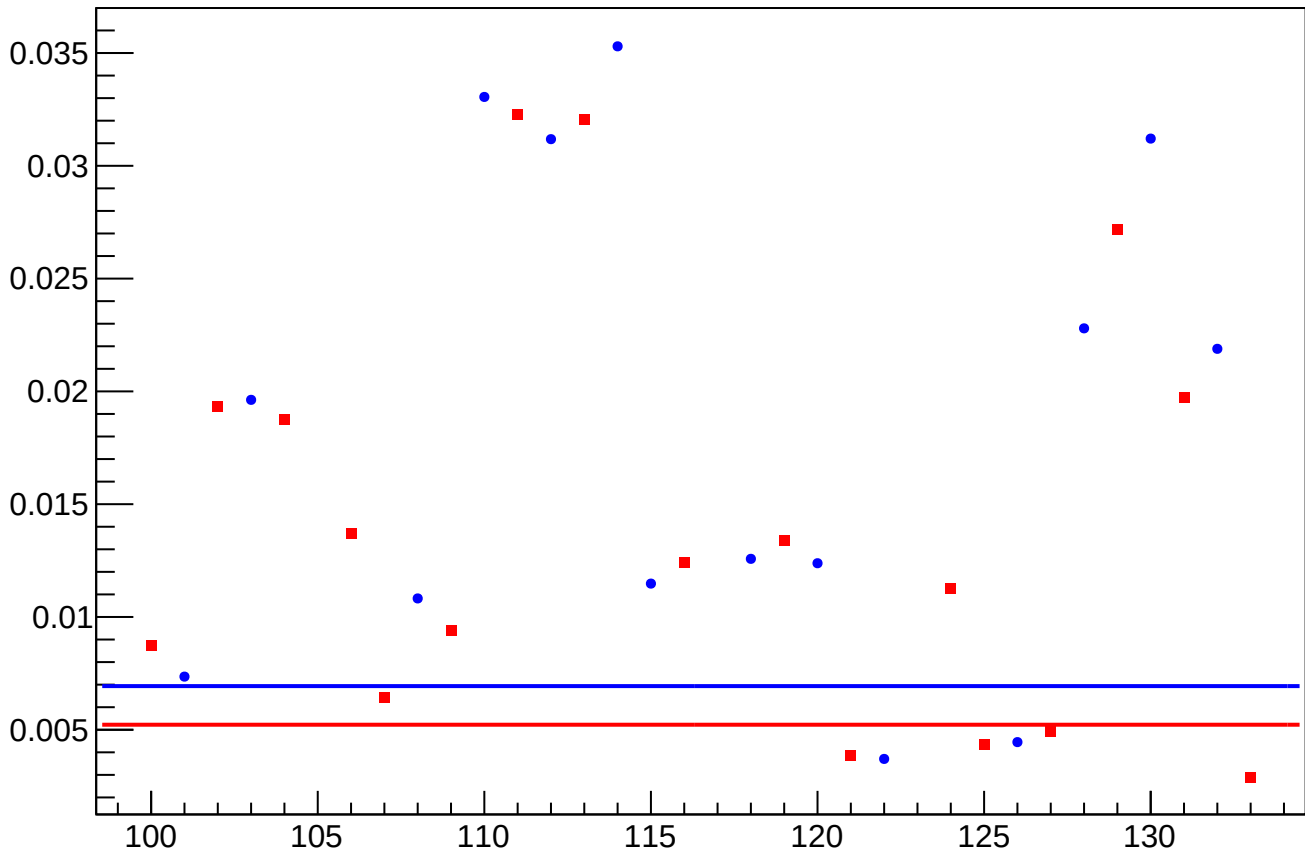
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 23.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 4575203.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 5363625.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

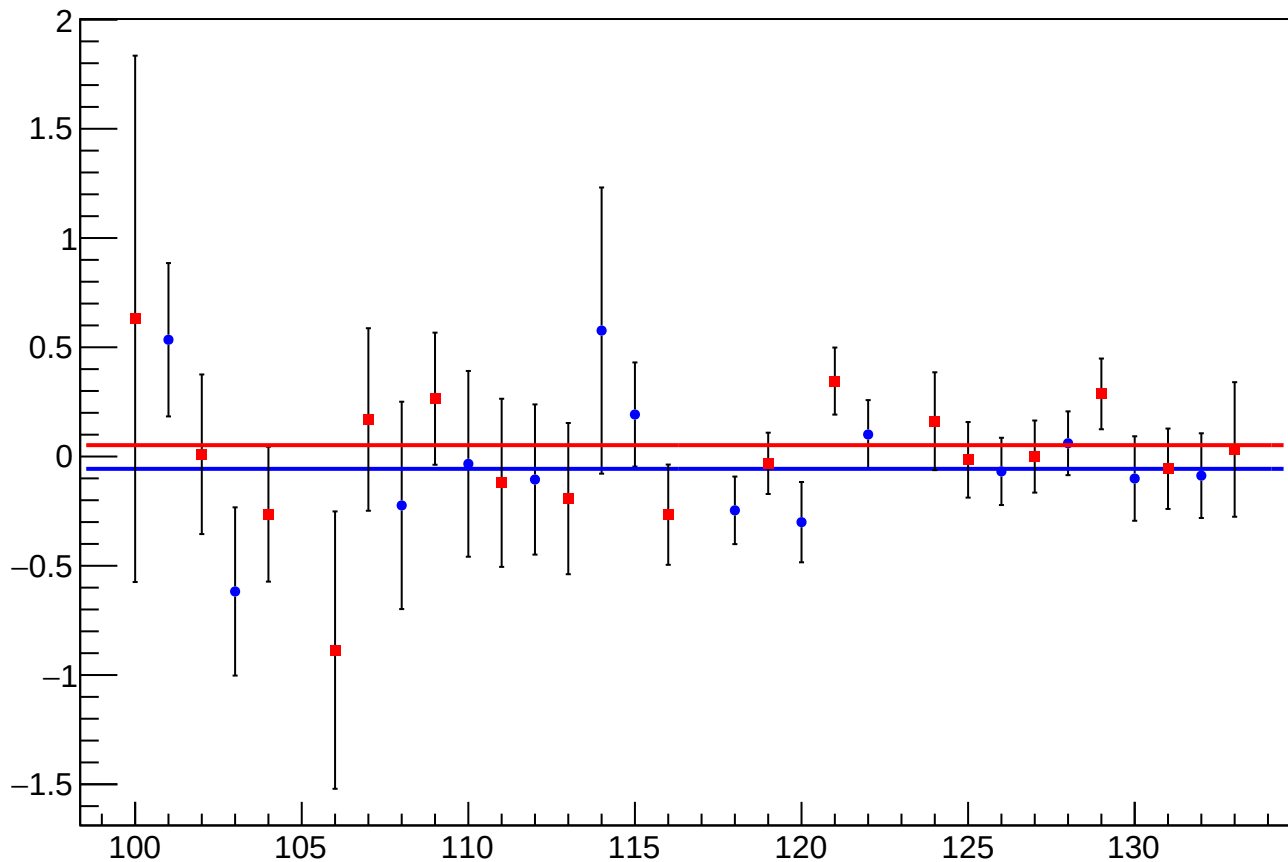
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 10224447.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam2\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.056 $\pm$ 0.057  $\chi^2$ /NDF: 12.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.052 $\pm$ 0.055  $\chi^2$ /NDF: 13.6/16

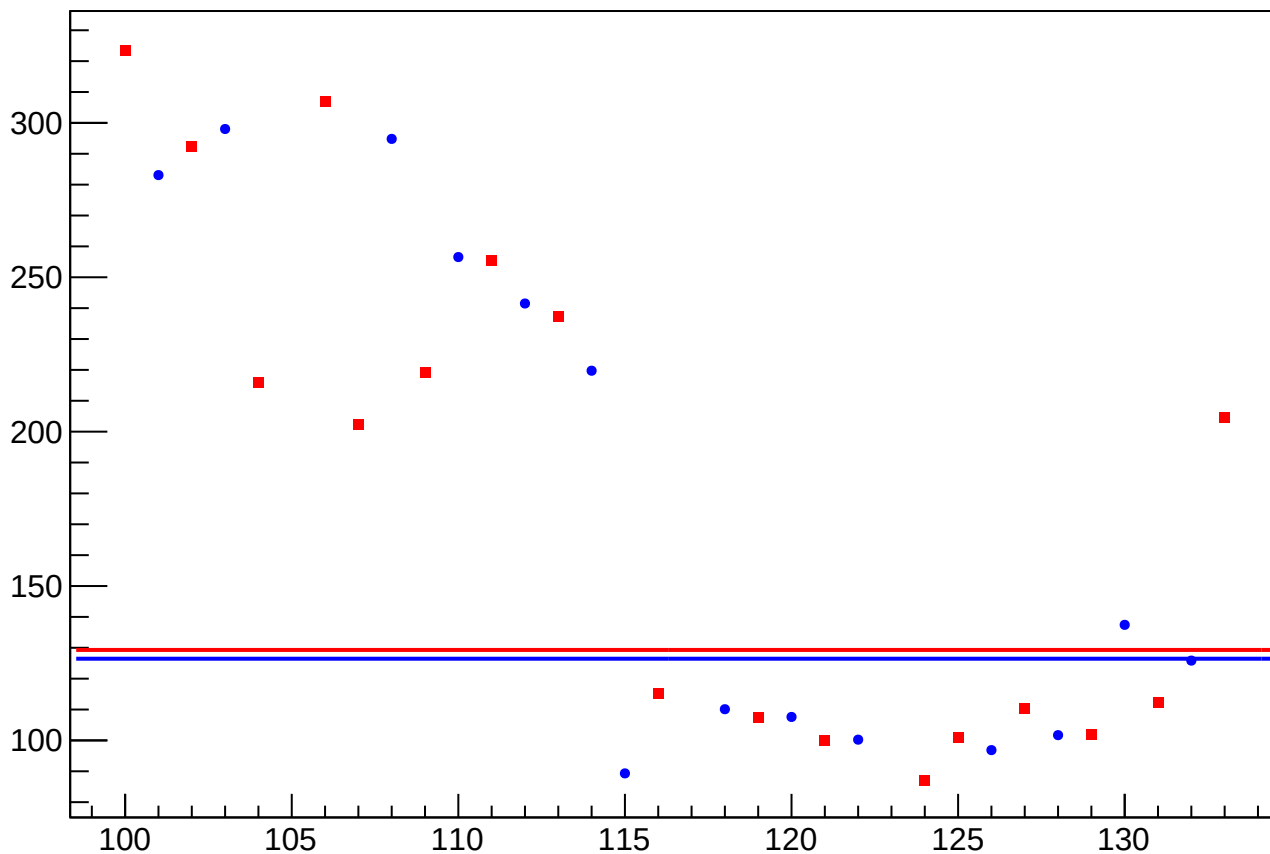
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.039  $\chi^2$ /NDF: 27.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 126.456+/-0.040  $\chi^2/\text{NDF}$ : 1784797.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 129.301+/-0.039  $\chi^2/\text{NDF}$ : 1886134.0/16

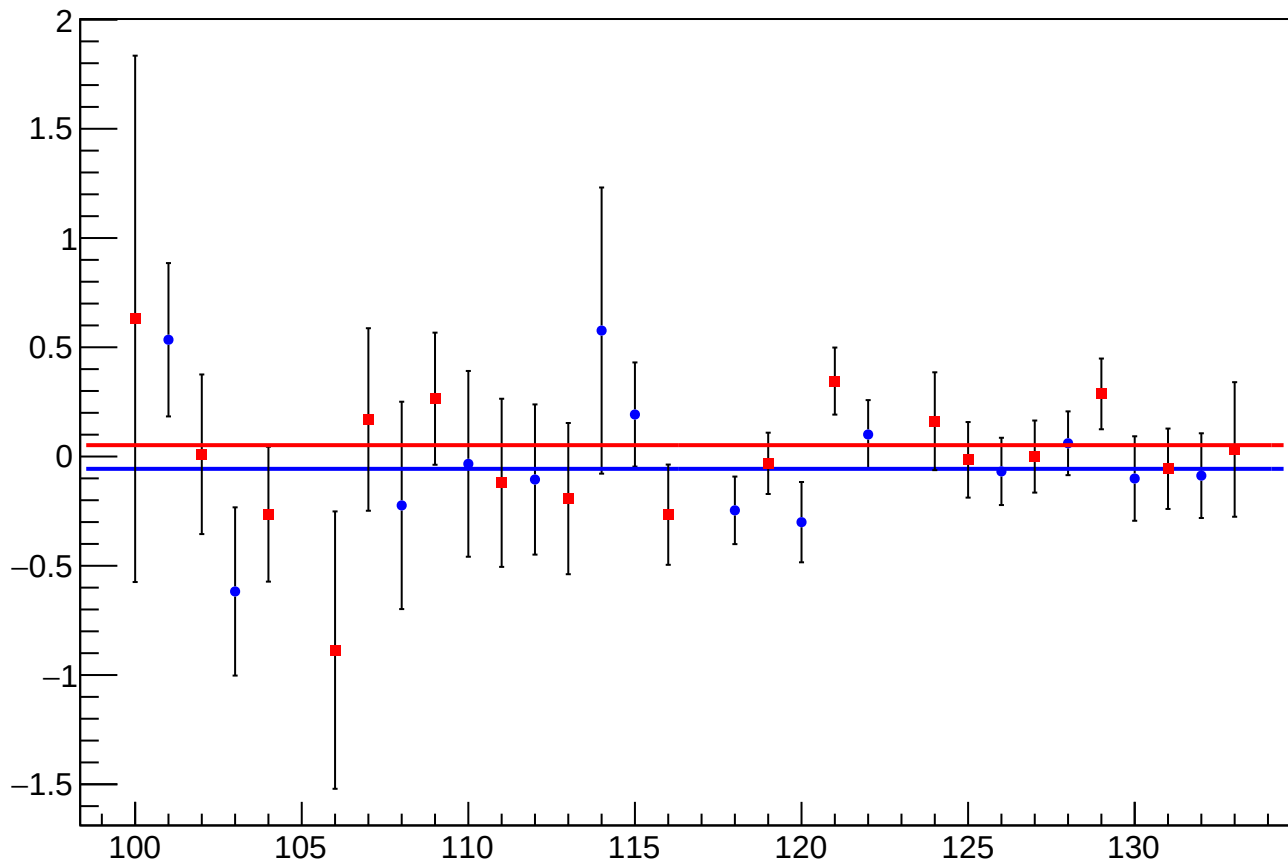
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 127.937+/-0.028  $\chi^2/\text{NDF}$ : 3673522.2/30

- 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: -0.056+/-0.057  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.052+/-0.055  $\chi^2/\text{NDF}$ : 13.6/16

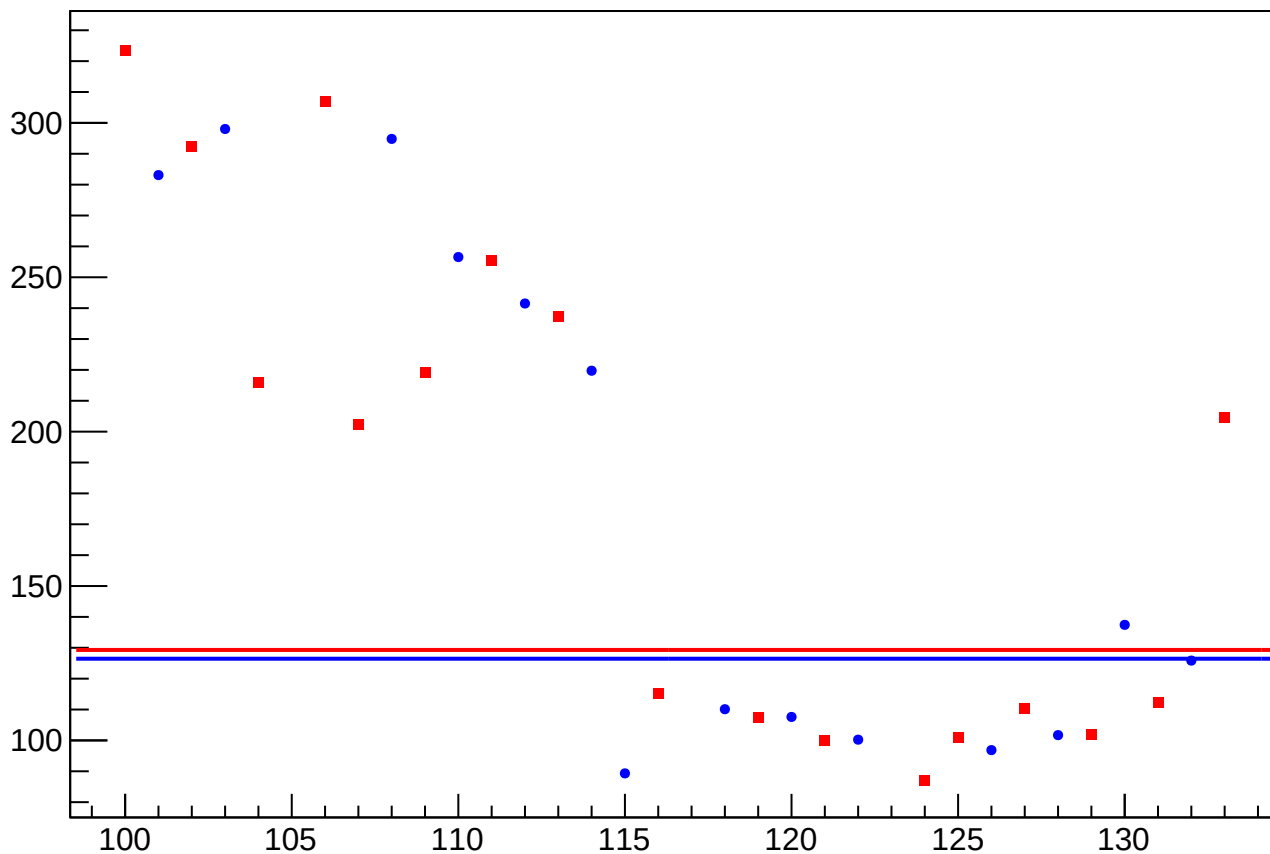
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.039  $\chi^2/\text{NDF}$ : 27.6/30

- 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: 126.456 $\pm$ 0.040  $\chi^2$ /NDF: 1784797.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 129.301 $\pm$ 0.039  $\chi^2$ /NDF: 1886134.0/16

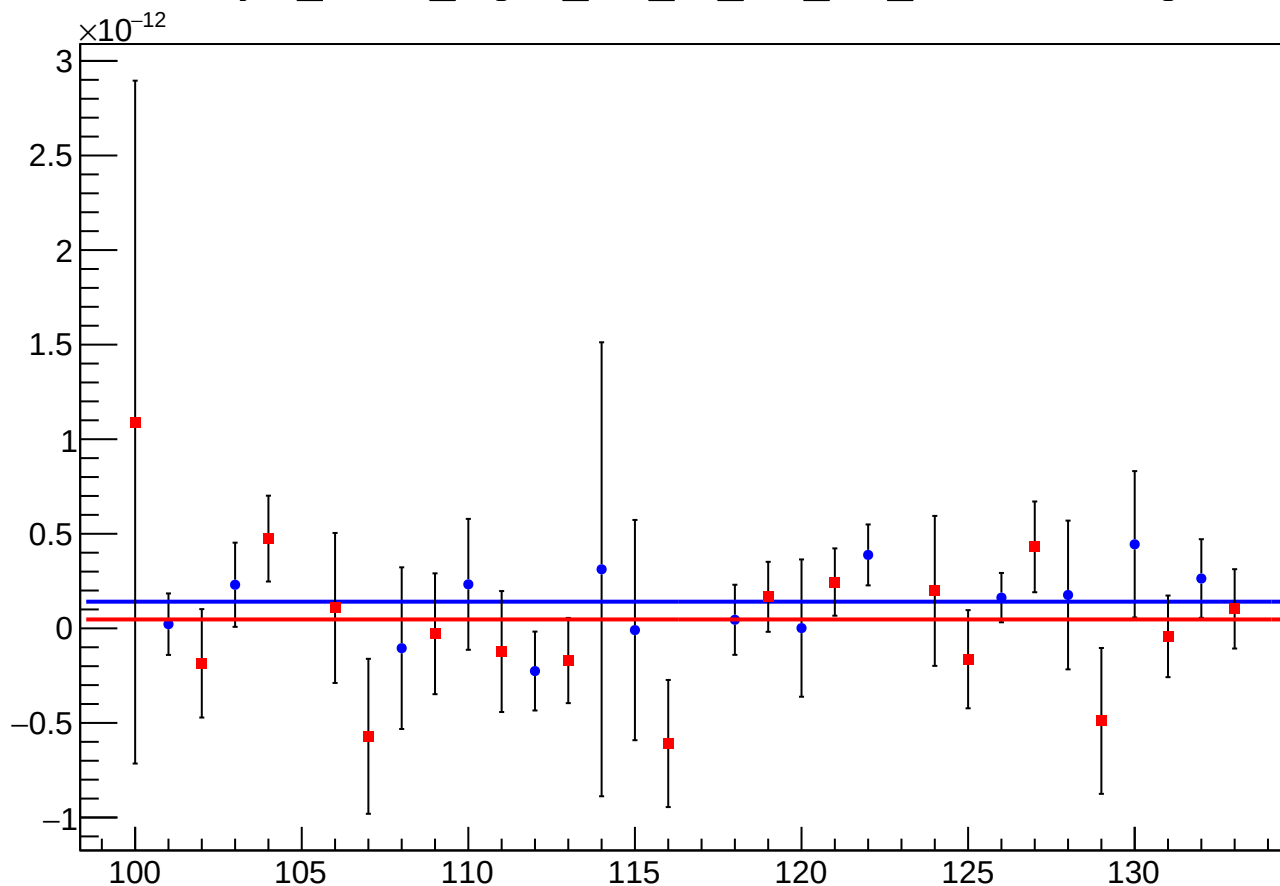
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 127.937 $\pm$ 0.028  $\chi^2$ /NDF: 3673522.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.1/16

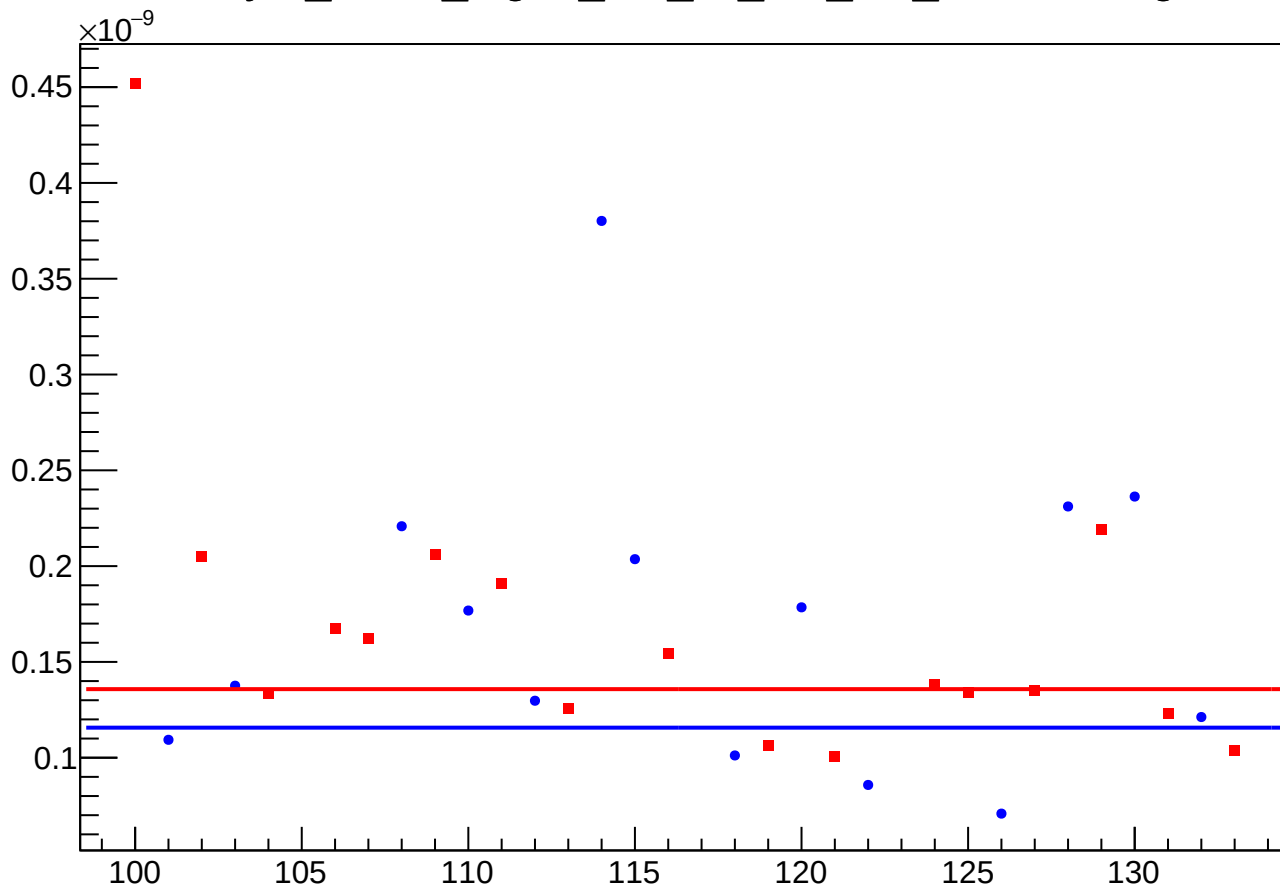
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1103332.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 642945.6/16

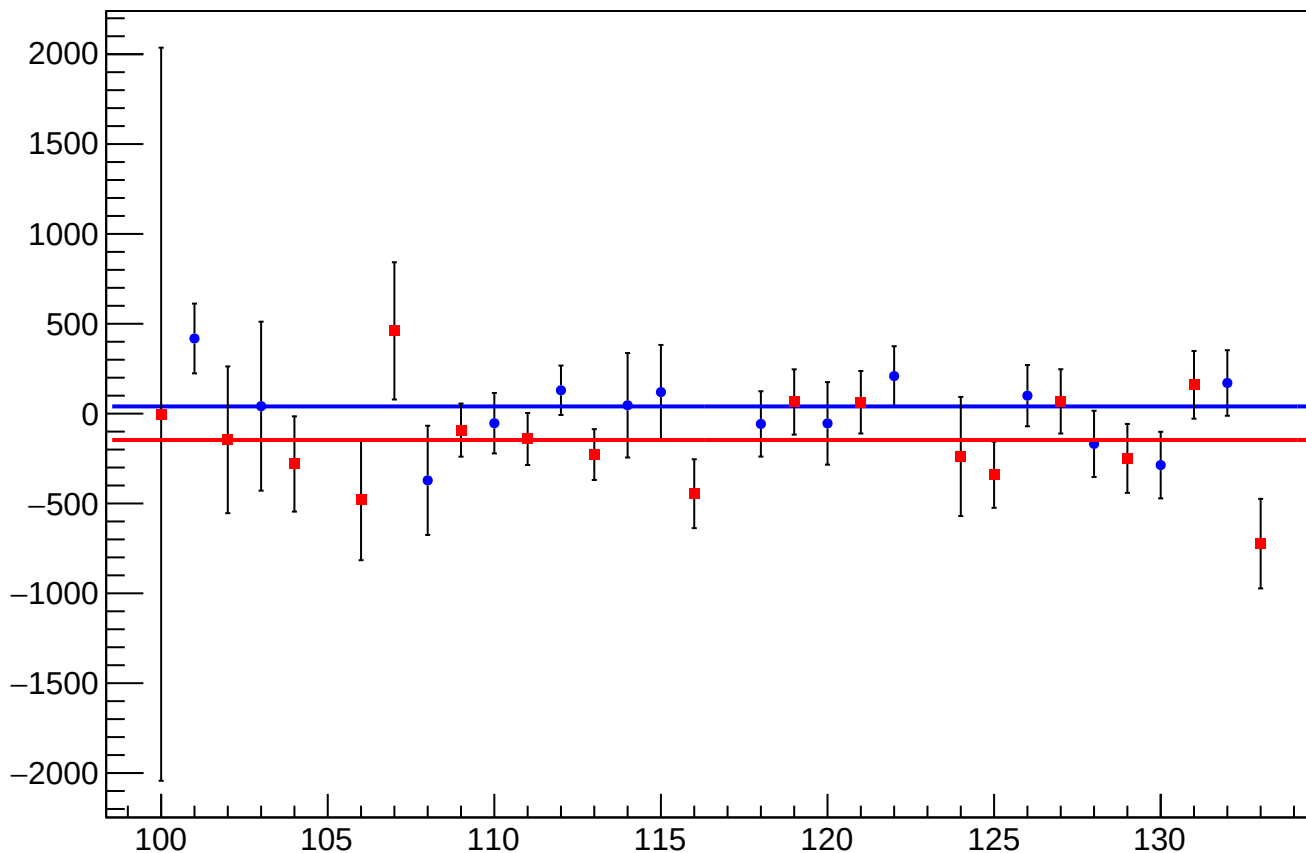
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1849377.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_mean vs Slug



Right In: 40.061+/-52.346  $\chi^2/\text{NDF}$ : 13.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -146.617+/-49.297  $\chi^2/\text{NDF}$ : 20.4/16

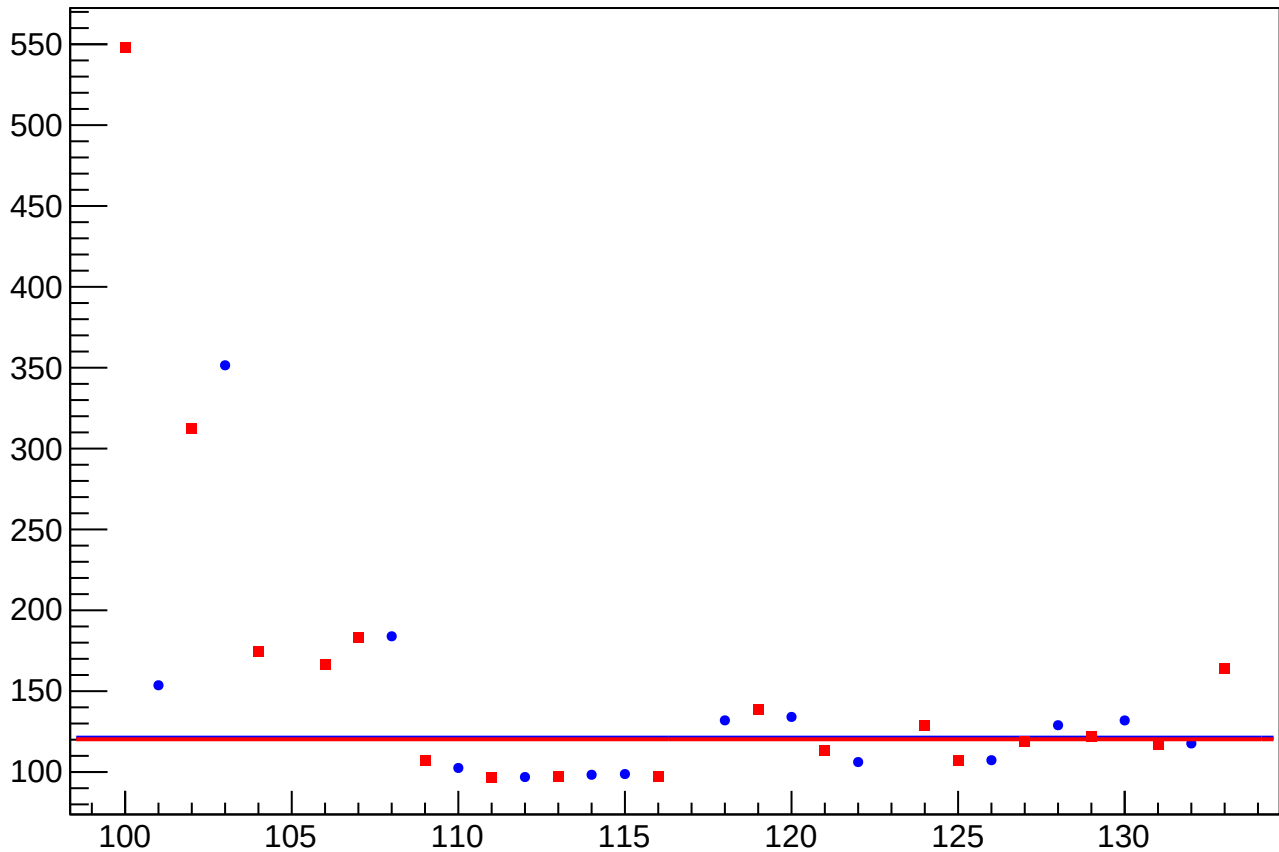
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -58.873+/-35.888  $\chi^2/\text{NDF}$ : 40.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_rms vs Slug



Right In: 121.257 $\pm$ 0.037  $\chi^2$ /NDF: 789131.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 120.262 $\pm$ 0.035  $\chi^2$ /NDF: 955308.3/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

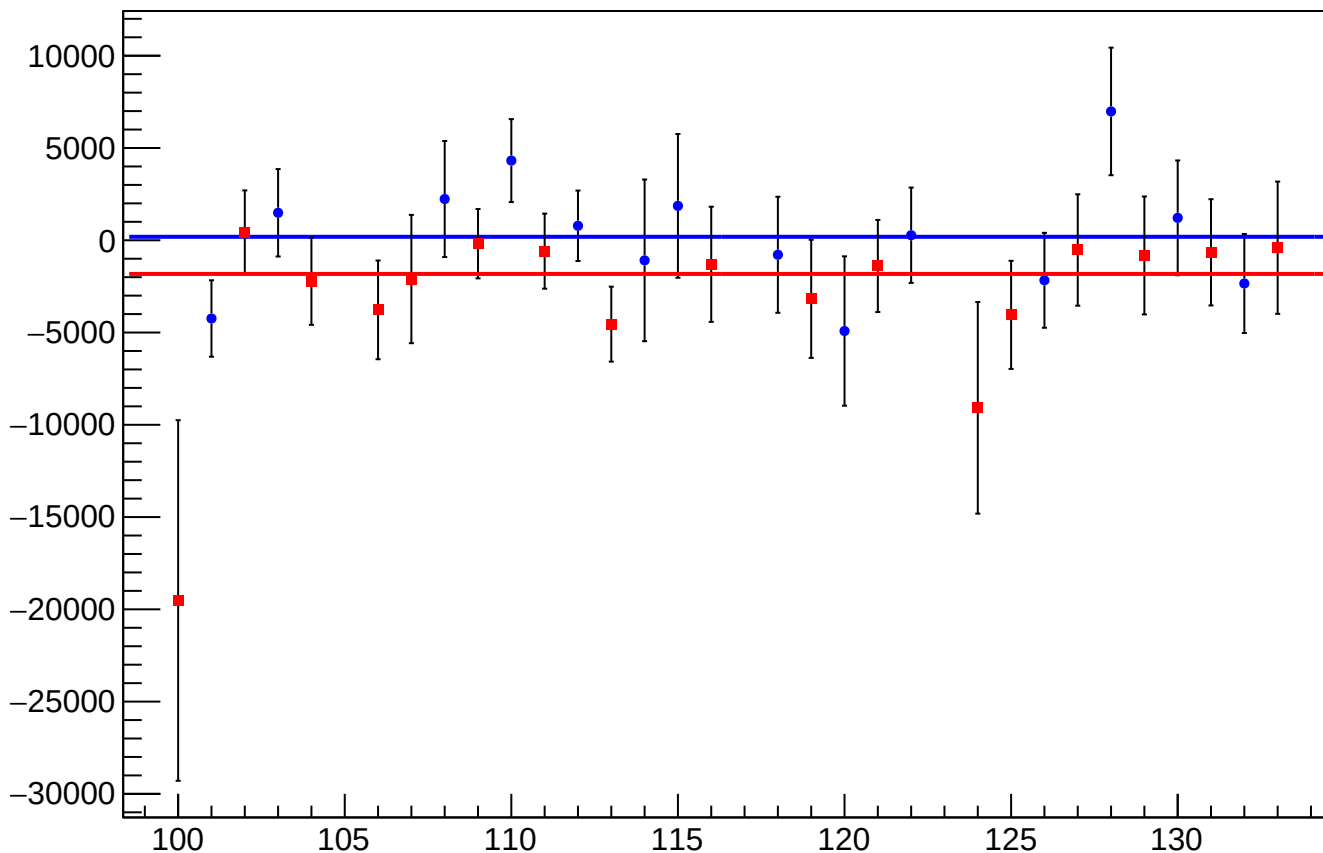
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.730 $\pm$ 0.025  $\chi^2$ /NDF: 1744822.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam3\_reg\_correction\_mean vs Slug



Right In:  $188.568 \pm 726.953$   $\chi^2/\text{NDF}$ : 16.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1823.942 \pm 661.006$   $\chi^2/\text{NDF}$ : 10.8/16

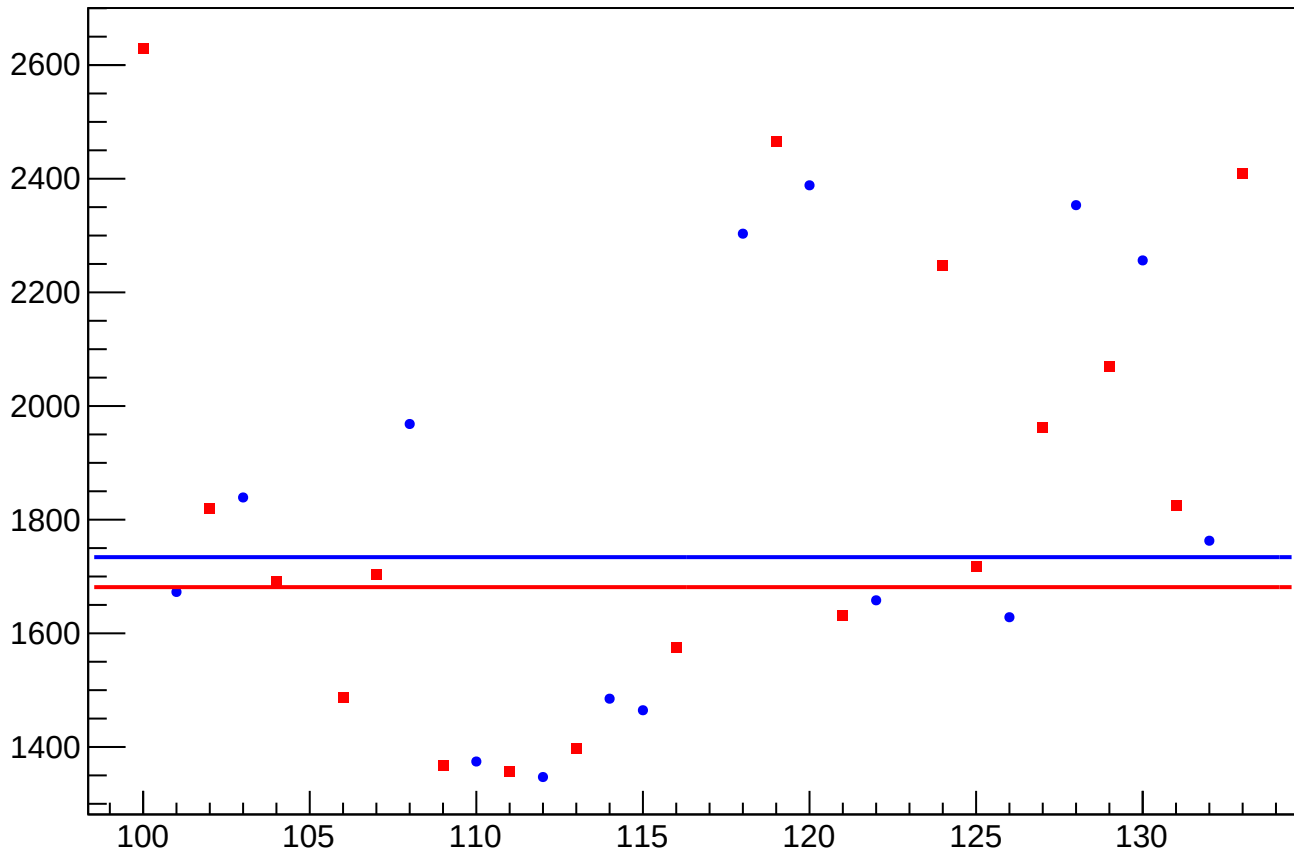
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-913.093 \pm 489.058$   $\chi^2/\text{NDF}$ : 31.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_reg\_correction\_rms vs Slug



Right In: 1734.073+/-0.514  $\chi^2/\text{NDF}$ : 410016.4/13

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

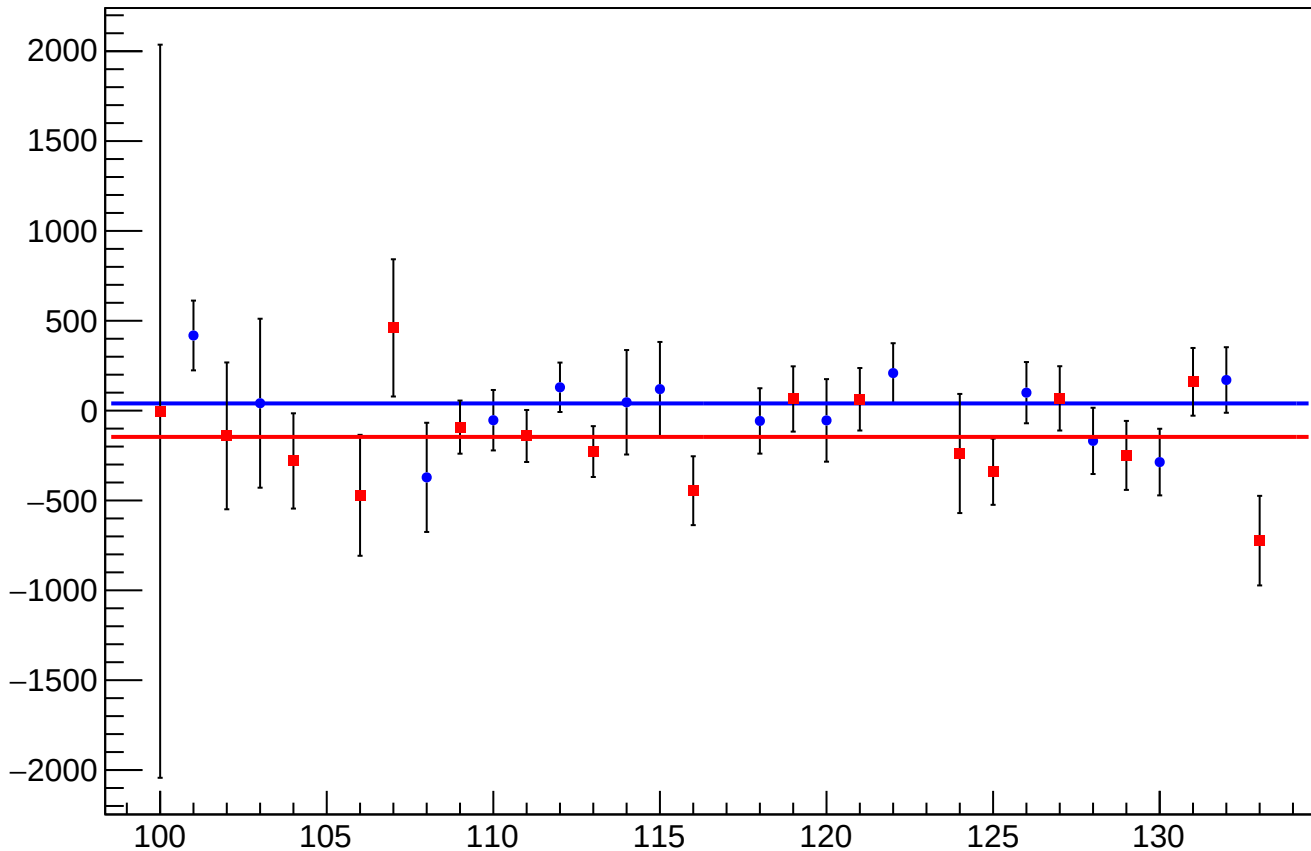
Right Out: 1681.304+/-0.467  $\chi^2/\text{NDF}$ : 459356.9/16

All: 1705.187+/-0.346  $\chi^2/\text{NDF}$ : 875142.2/30

- 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\_sam3\_mean vs Slug



Right In: 40.040+/-52.346  $\chi^2/\text{NDF}$ : 13.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -146.291+/-49.301  $\chi^2/\text{NDF}$ : 20.3/16

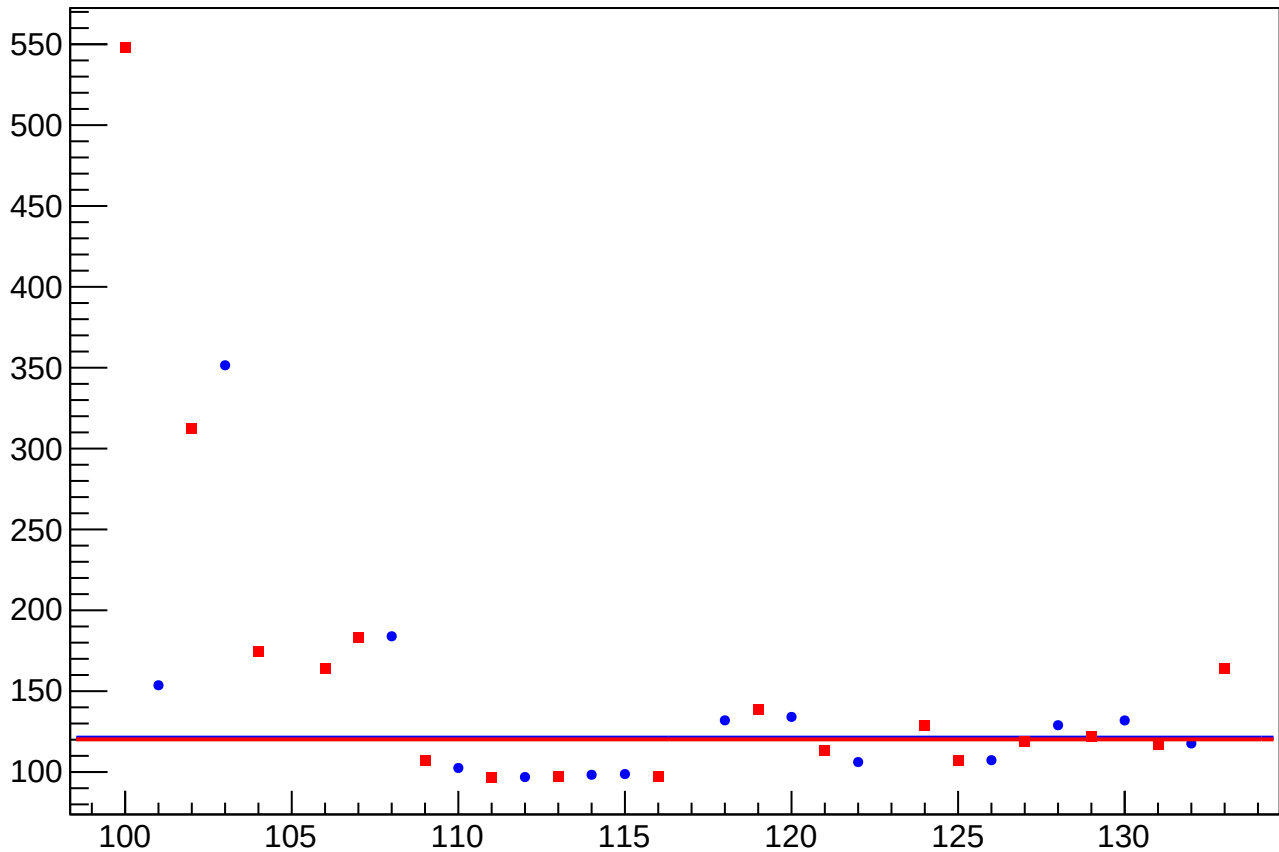
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -58.703+/-35.889  $\chi^2/\text{NDF}$ : 40.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam3\_rms vs Slug



Right In: 121.257 $\pm$ 0.037  $\chi^2$ /NDF: 789133.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 120.202 $\pm$ 0.035  $\chi^2$ /NDF: 951330.7/16

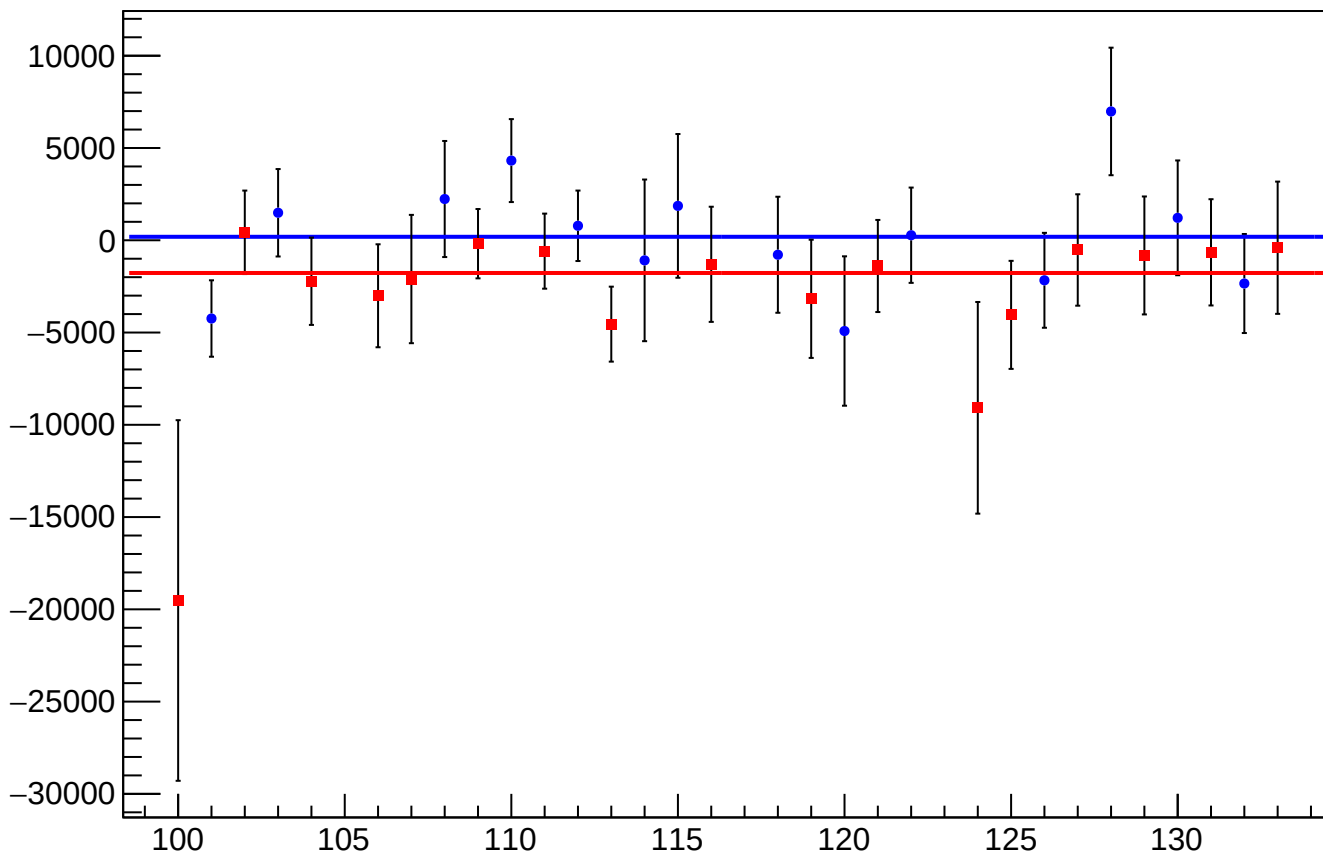
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.698 $\pm$ 0.025  $\chi^2$ /NDF: 1740894.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_cor\_correction\_mean vs Slug



Right In: 188.604 $\pm$ 726.960  $\chi^2$ /NDF: 16.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1772.746 $\pm$ 662.694  $\chi^2$ /NDF: 10.4/16

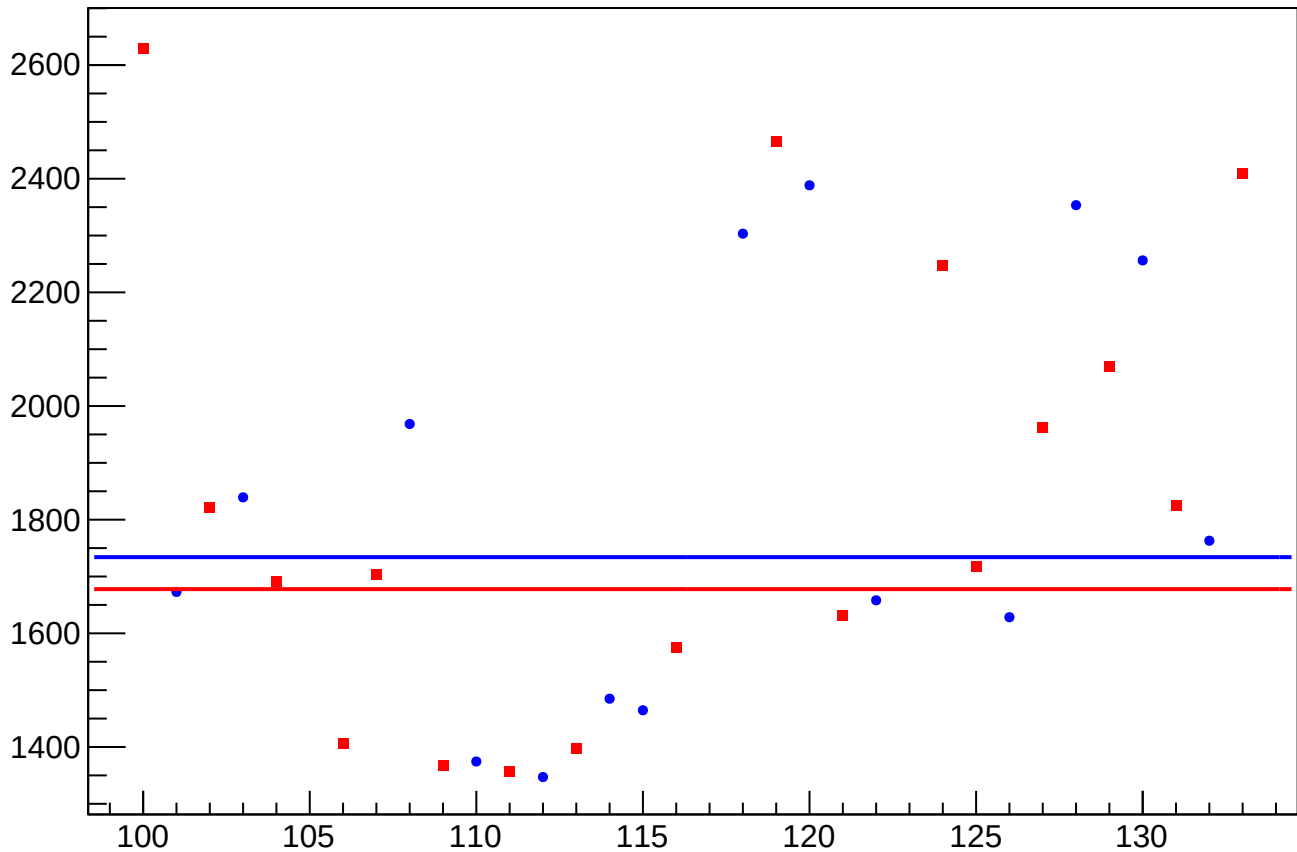
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -882.583 $\pm$ 489.743  $\chi^2$ /NDF: 30.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_cor\_correction\_rms vs Slug



Right In: 1734.089+/-0.514  $\chi^2/\text{NDF}$ : 410031.5/13

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

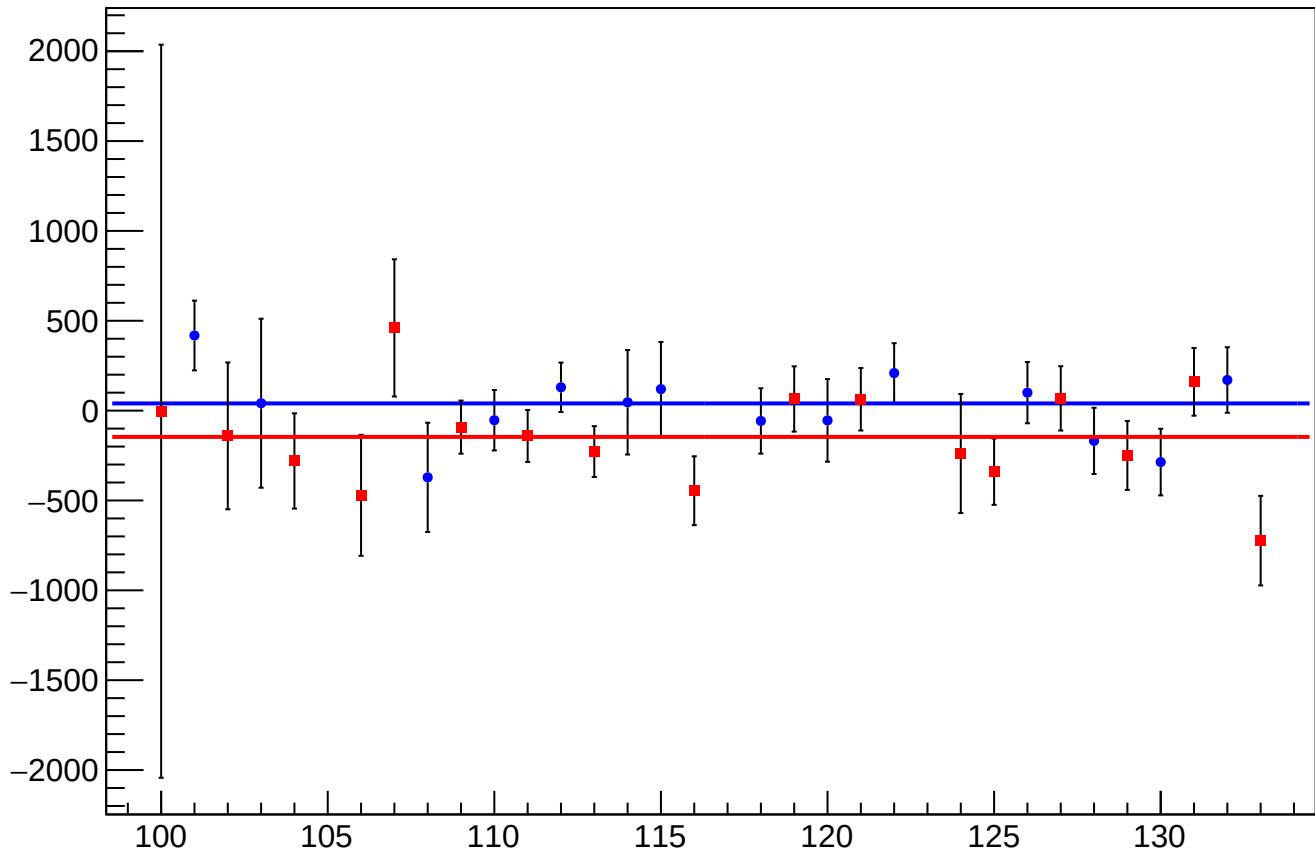
Right Out: 1677.802+/-0.469  $\chi^2/\text{NDF}$ : 468366.8/16

All: 1703.348+/-0.346  $\chi^2/\text{NDF}$ : 884946.7/30

- 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\_sam3\_mean vs Slug



Right In: 40.040+/-52.346  $\chi^2/\text{NDF}$ : 13.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -146.291+/-49.301  $\chi^2/\text{NDF}$ : 20.3/16

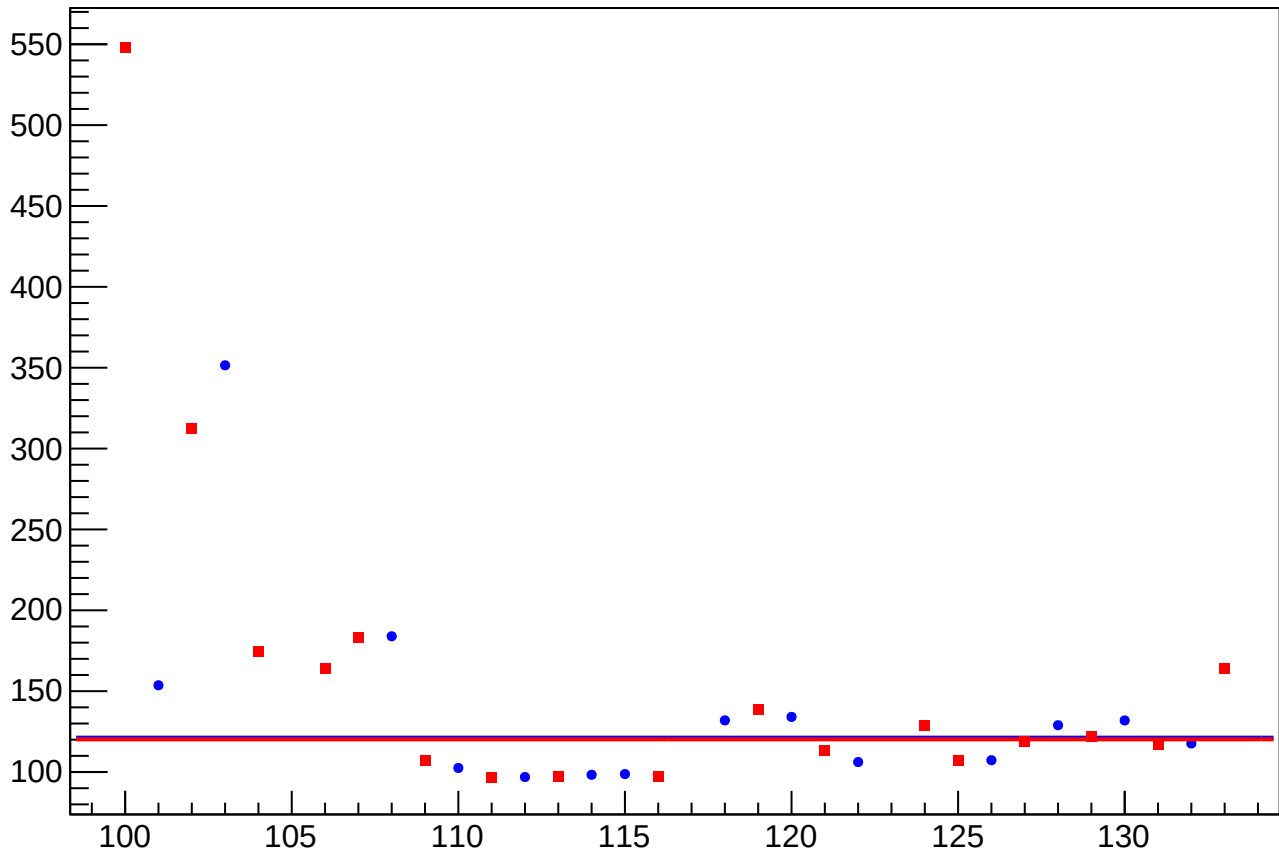
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -58.703+/-35.889  $\chi^2/\text{NDF}$ : 40.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam3\_rms vs Slug



Right In: 121.257+/-0.037  $\chi^2/\text{NDF}$ : 789133.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 120.202+/-0.035  $\chi^2/\text{NDF}$ : 951330.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

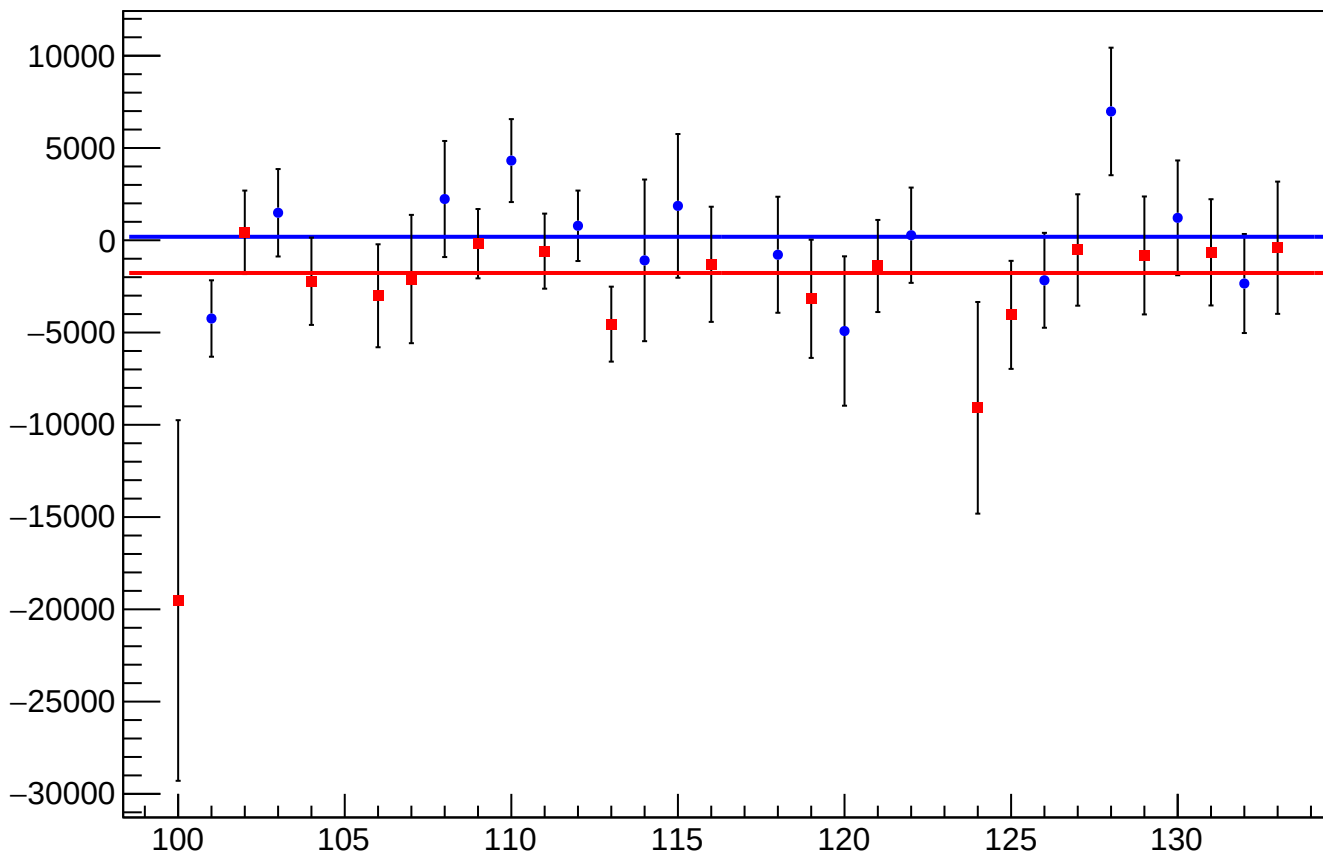
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 120.698+/-0.025  $\chi^2/\text{NDF}$ : 1740894.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam3\_eigen\_cor\_correction\_mean vs Slug



Right In: 188.604+/-726.960  $\chi^2/\text{NDF}$ : 16.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1772.746+/-662.694  $\chi^2/\text{NDF}$ : 10.4/16

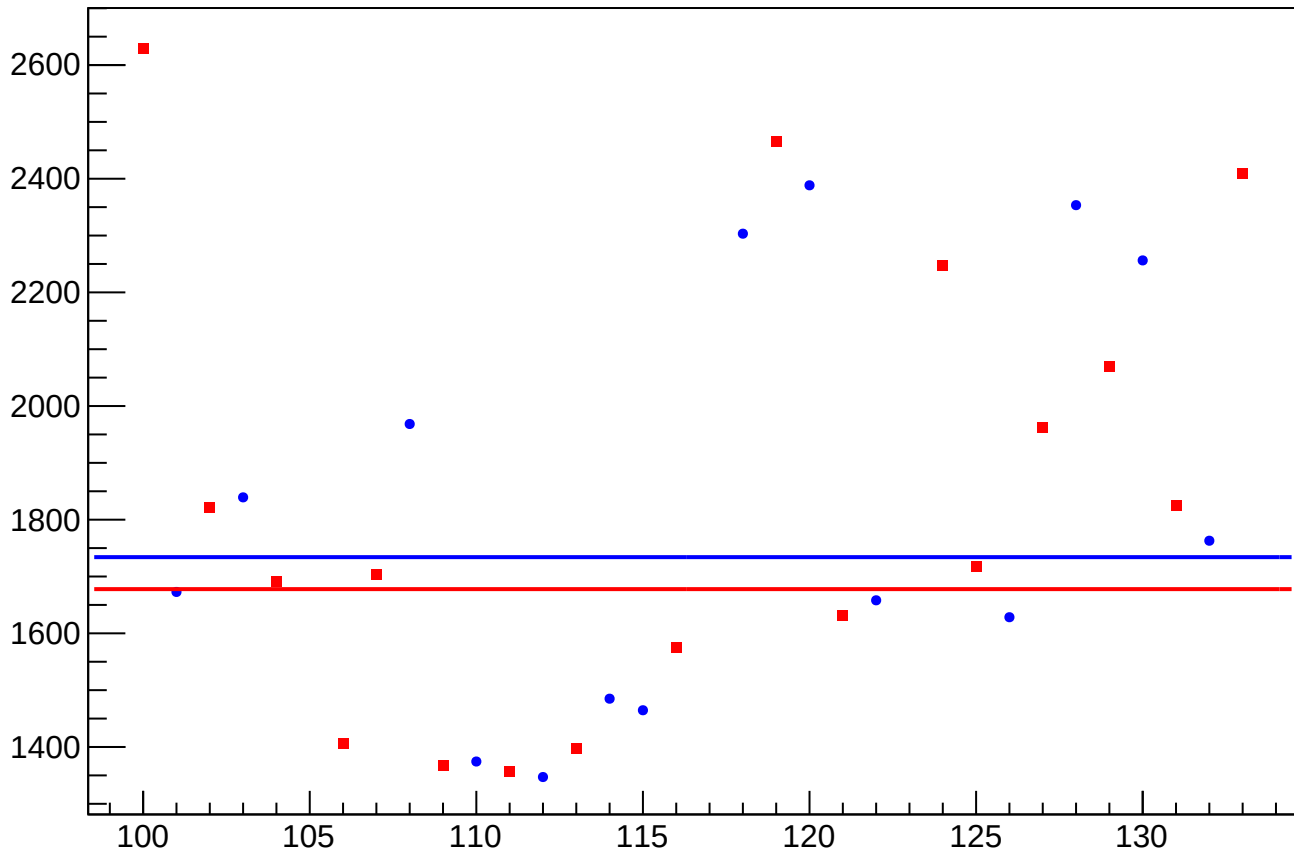
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -882.583+/-489.743  $\chi^2/\text{NDF}$ : 30.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_eigen\_cor\_correction\_rms vs Slug



Right In: 1734.089 $\pm$ 0.514  $\chi^2$ /NDF: 410031.5/13

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

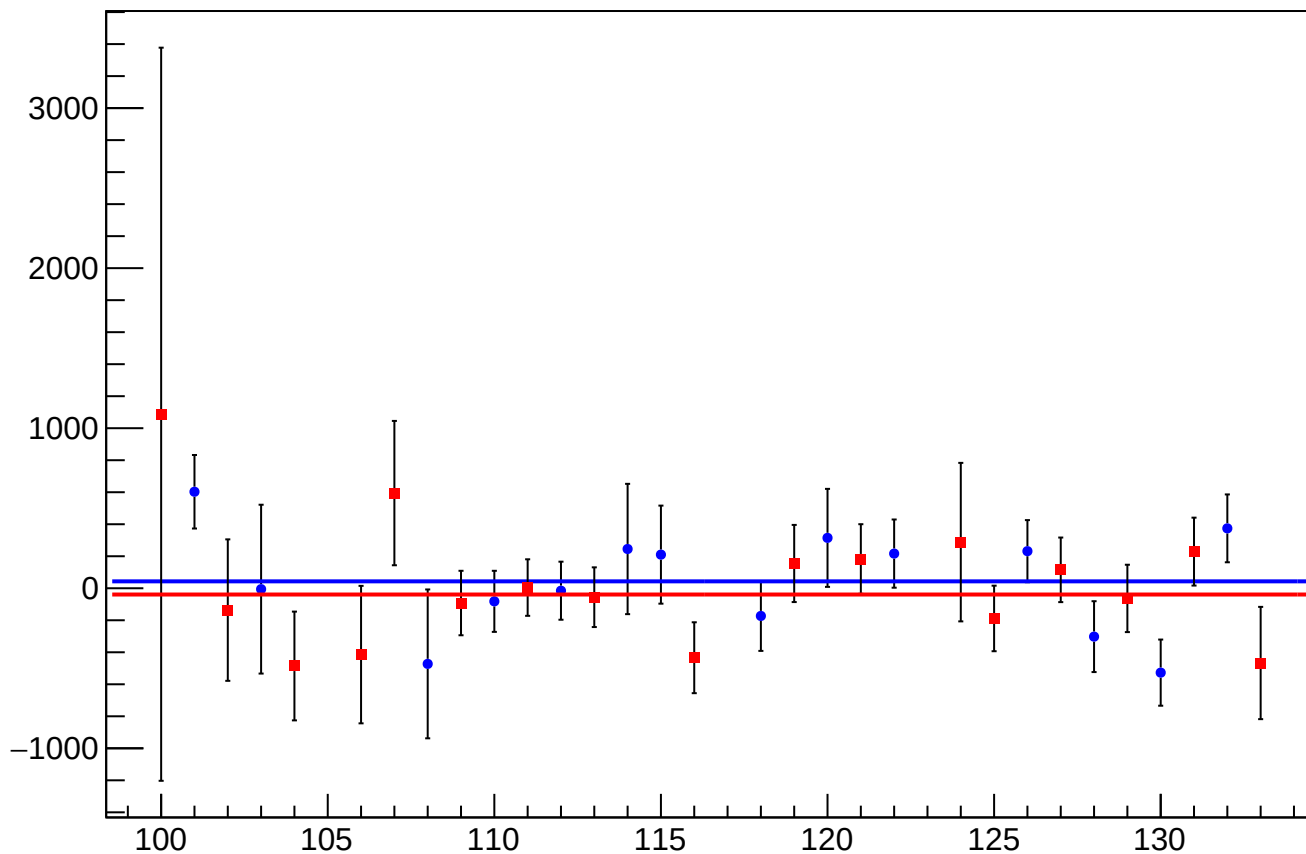
Right Out: 1677.802 $\pm$ 0.469  $\chi^2$ /NDF: 468366.8/16

All: 1703.348 $\pm$ 0.346  $\chi^2$ /NDF: 884946.7/30

- 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\_sam3\_mean vs Slug



Right In: 43.134+/-63.494  $\chi^2/\text{NDF}$ : 24.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -39.162+/-60.420  $\chi^2/\text{NDF}$ : 14.4/16

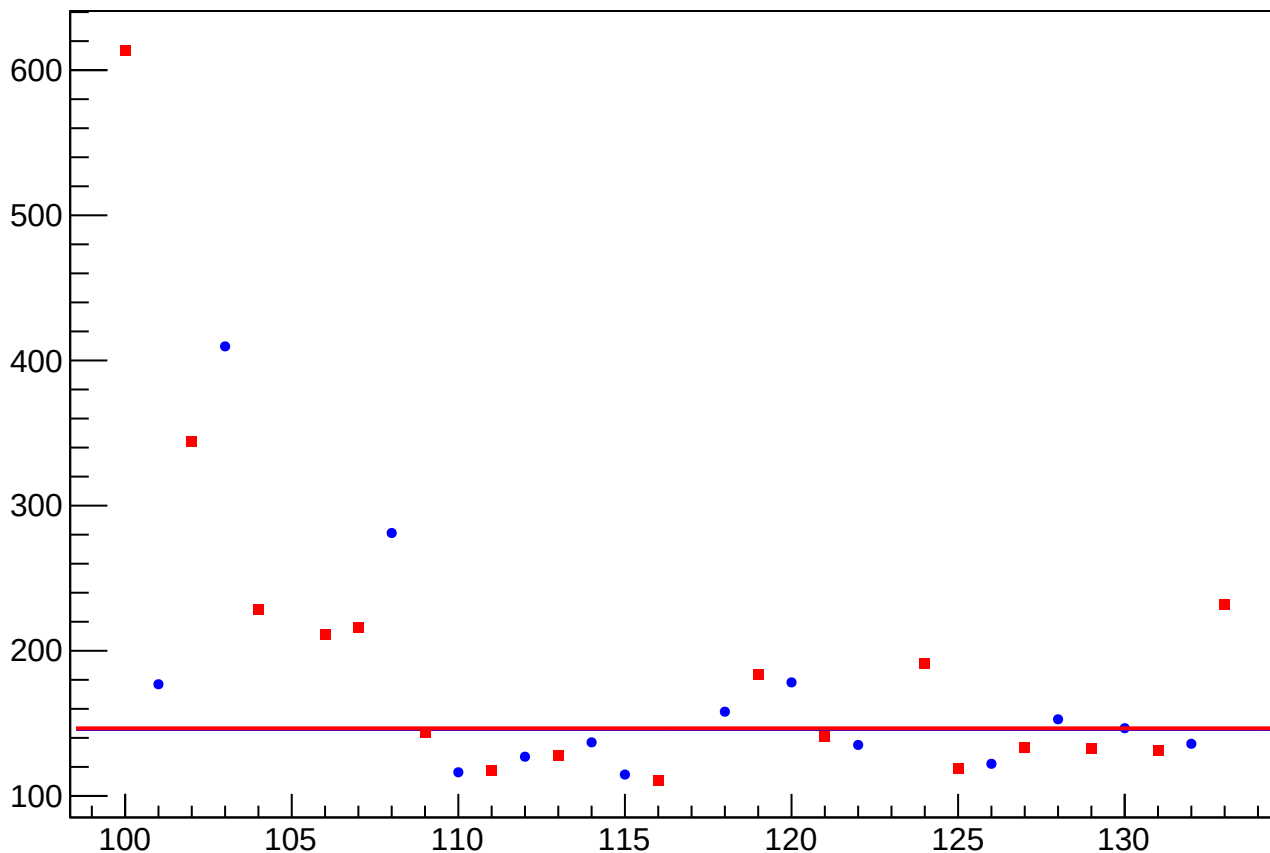
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.054+/-43.770  $\chi^2/\text{NDF}$ : 39.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam3\_rms vs Slug



Right In: 146.131+/-0.045  $\chi^2/\text{NDF}$ : 867403.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 146.557+/-0.043  $\chi^2/\text{NDF}$ : 1066123.0/16

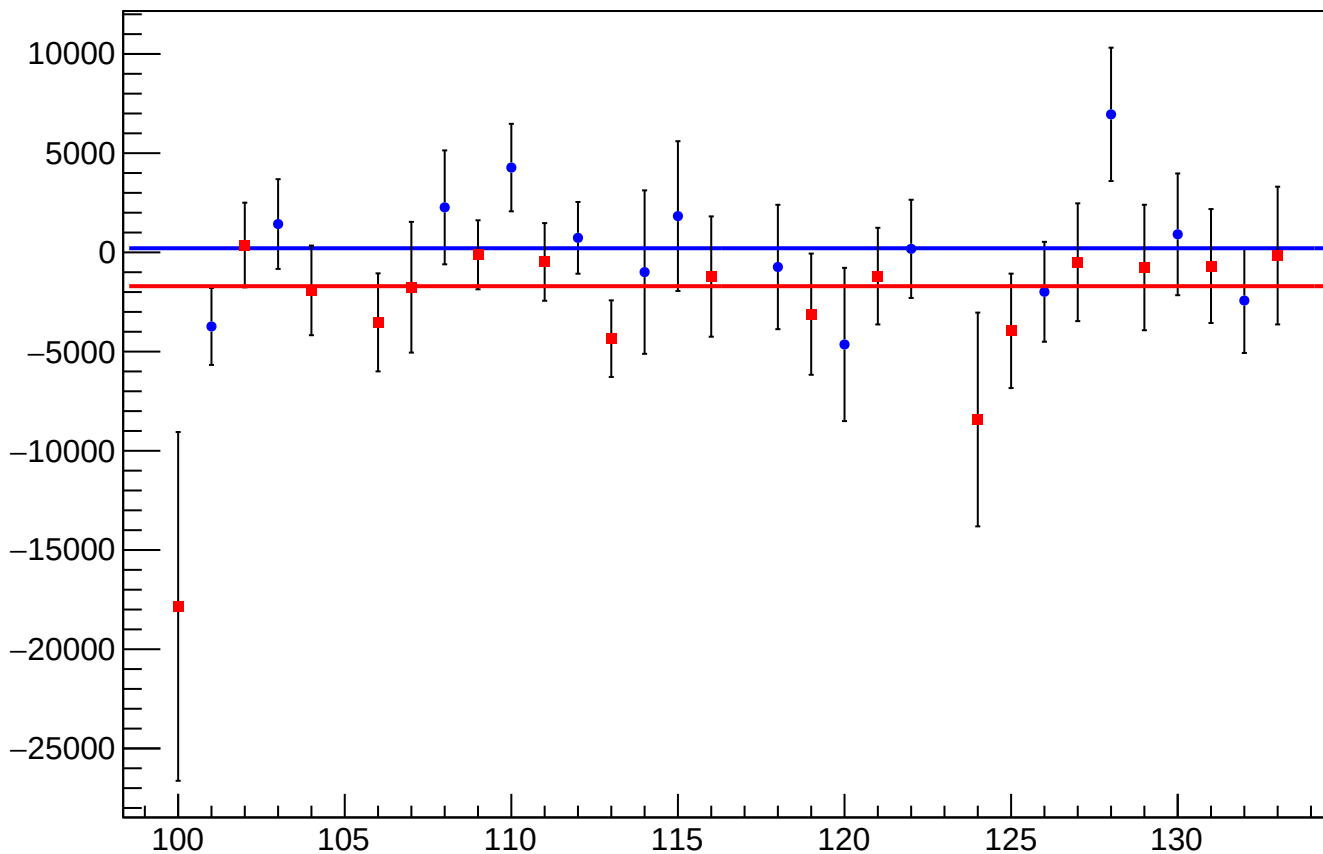
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 146.354+/-0.031  $\chi^2/\text{NDF}$ : 1933574.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_dit\_correction\_mean vs Slug



Right In: 208.850+/-698.037  $\chi^2/\text{NDF}$ : 16.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1703.372+/-632.164  $\chi^2/\text{NDF}$ : 11.0/16

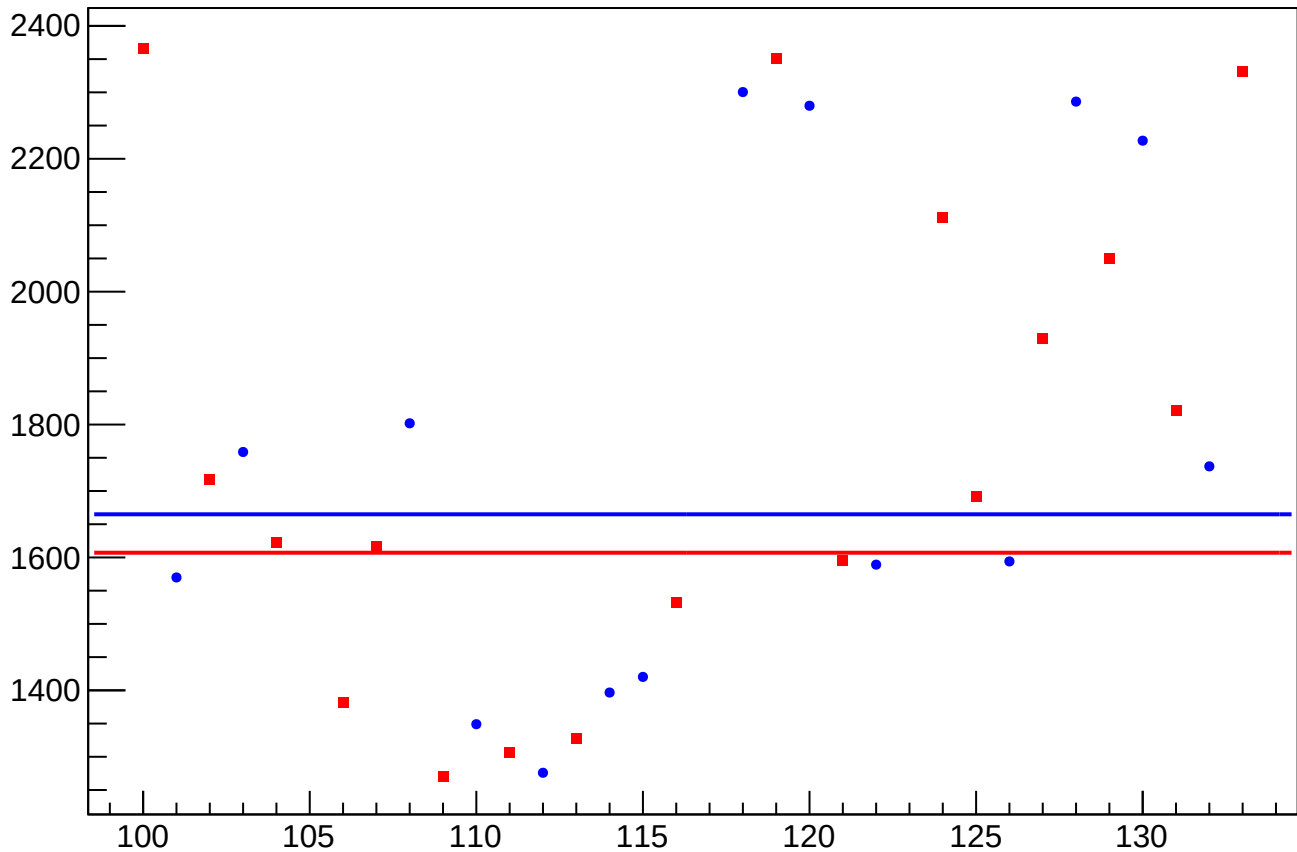
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -841.725+/-468.570  $\chi^2/\text{NDF}$ : 31.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_dit\_correction\_rms vs Slug



Right In: 1664.945 $\pm$ 0.494  $\chi^2$ /NDF: 436826.5/13

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

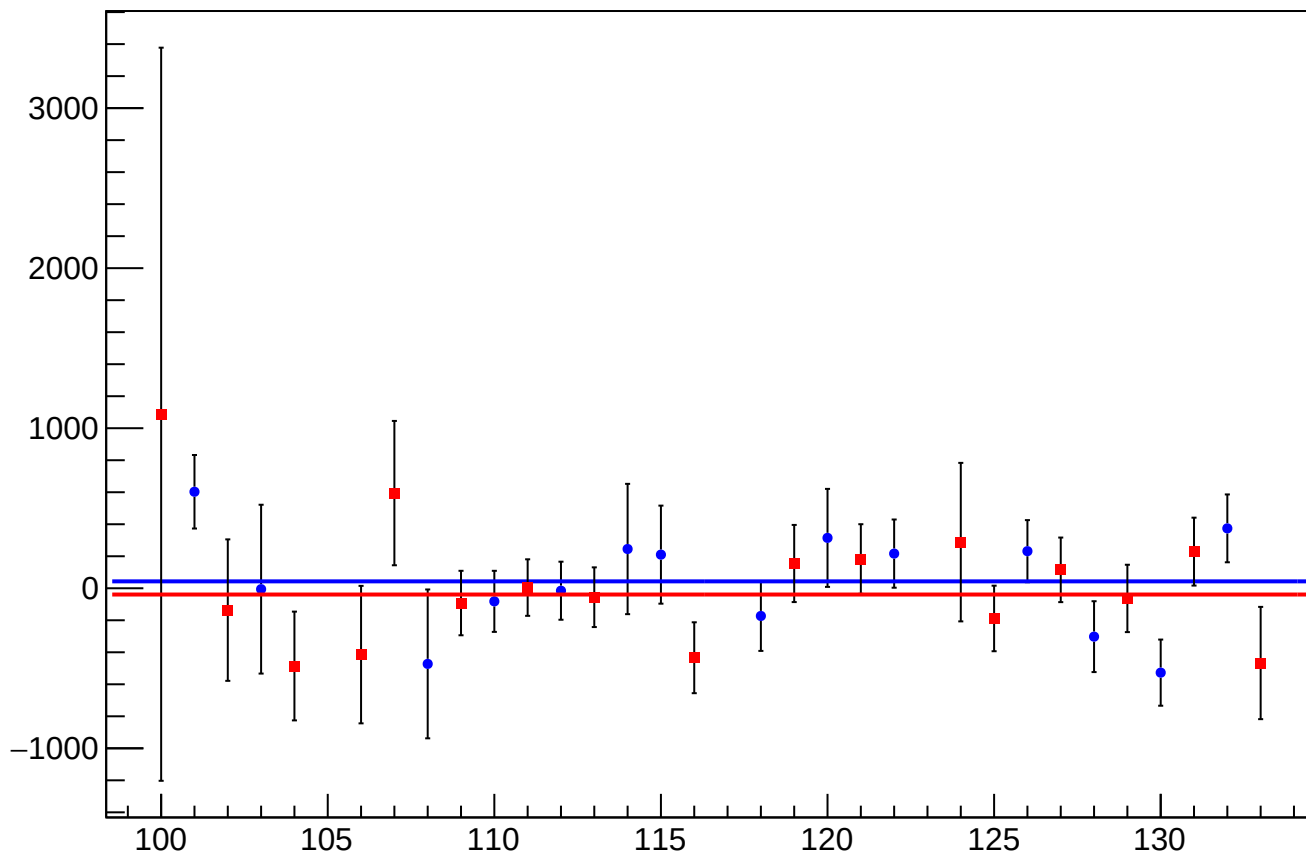
Right Out: 1607.126 $\pm$ 0.447  $\chi^2$ /NDF: 501920.1/16

All: 1633.179 $\pm$ 0.331  $\chi^2$ /NDF: 946285.5/30

- 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\_sam3\_mean vs Slug



Right In: 43.132 $\pm$ 63.494  $\chi^2$ /NDF: 24.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -39.158 $\pm$ 60.420  $\chi^2$ /NDF: 14.4/16

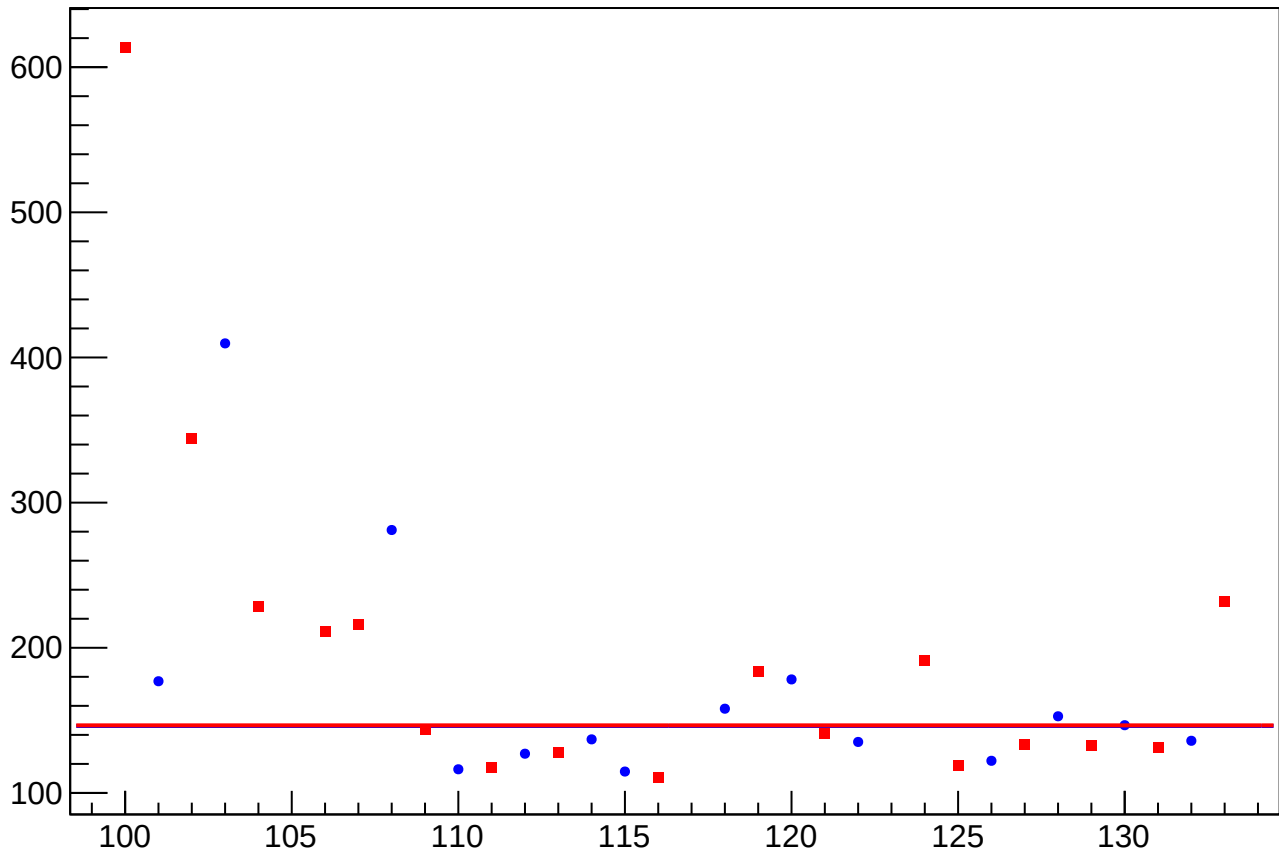
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.053 $\pm$ 43.770  $\chi^2$ /NDF: 39.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam3\_rms vs Slug



Right In: 146.132 $\pm$ 0.045  $\chi^2$ /NDF: 867393.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 146.558 $\pm$ 0.043  $\chi^2$ /NDF: 1066121.8/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

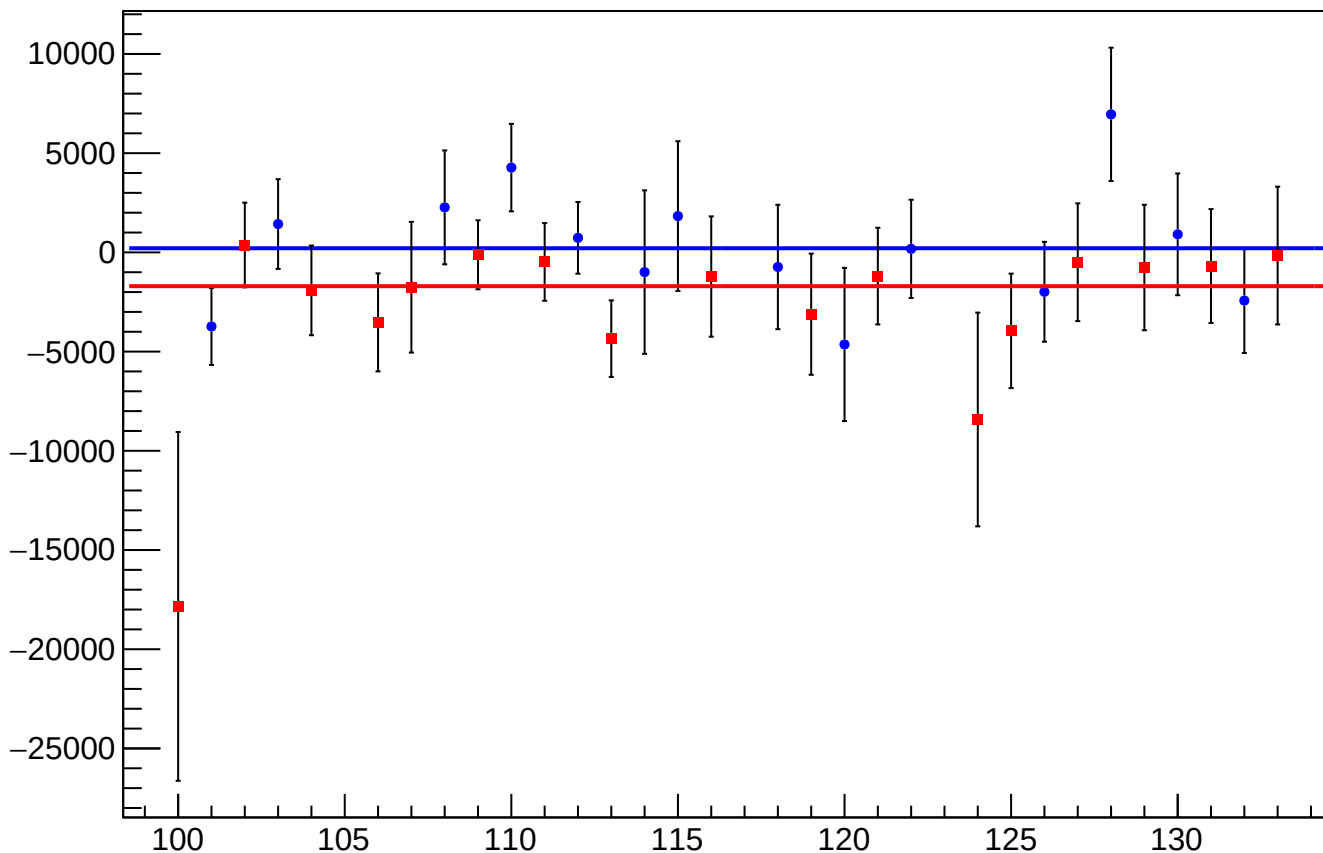
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 146.355 $\pm$ 0.031  $\chi^2$ /NDF: 1933562.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam3\_eigen\_dit\_correction\_mean vs Slug



Right In: 208.850+/-698.036  $\chi^2/\text{NDF}$ : 16.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1703.369+/-632.163  $\chi^2/\text{NDF}$ : 11.0/16

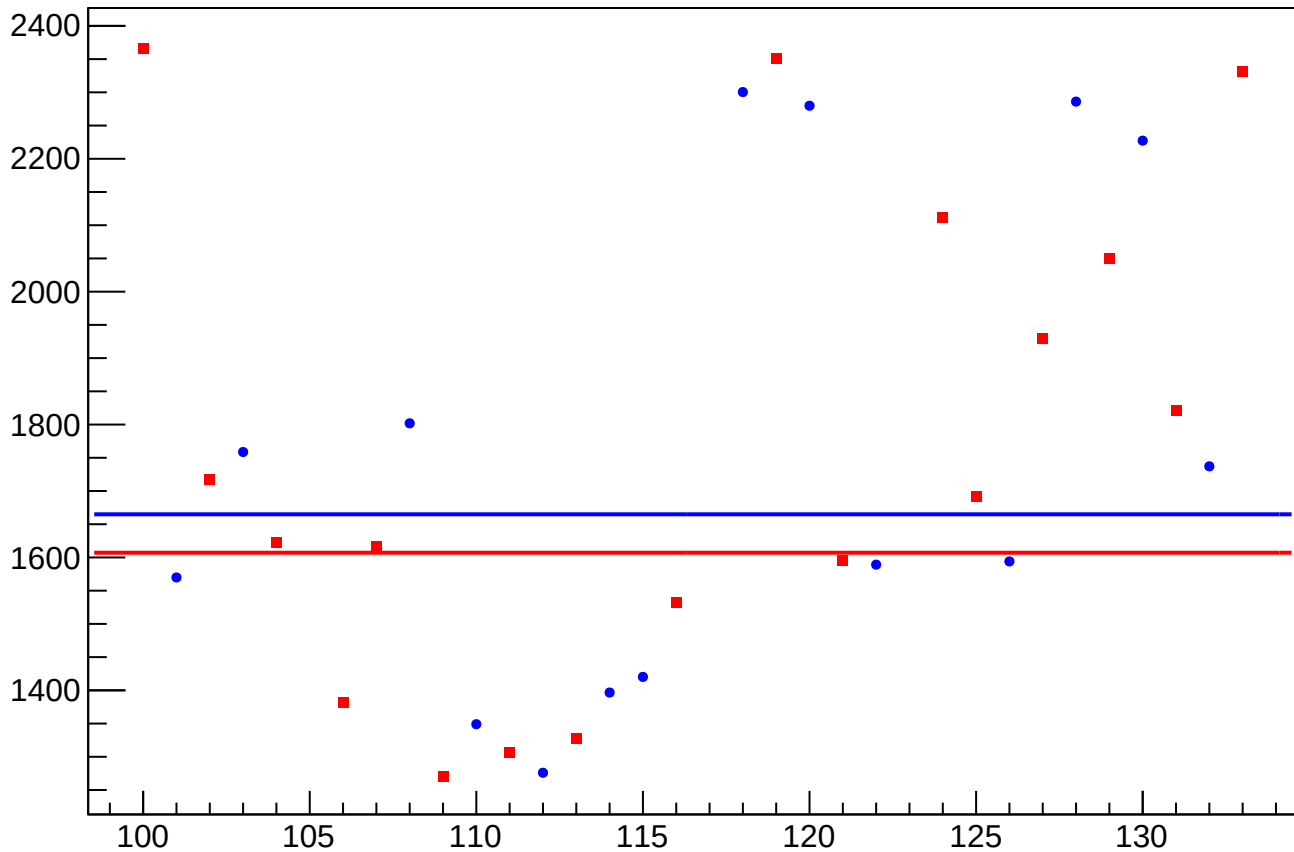
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -841.724+/-468.569  $\chi^2/\text{NDF}$ : 31.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_eigen\_dit\_correction\_rms vs Slug



Right In: 1664.942 $\pm$ 0.494  $\chi^2$ /NDF: 436830.2/13

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

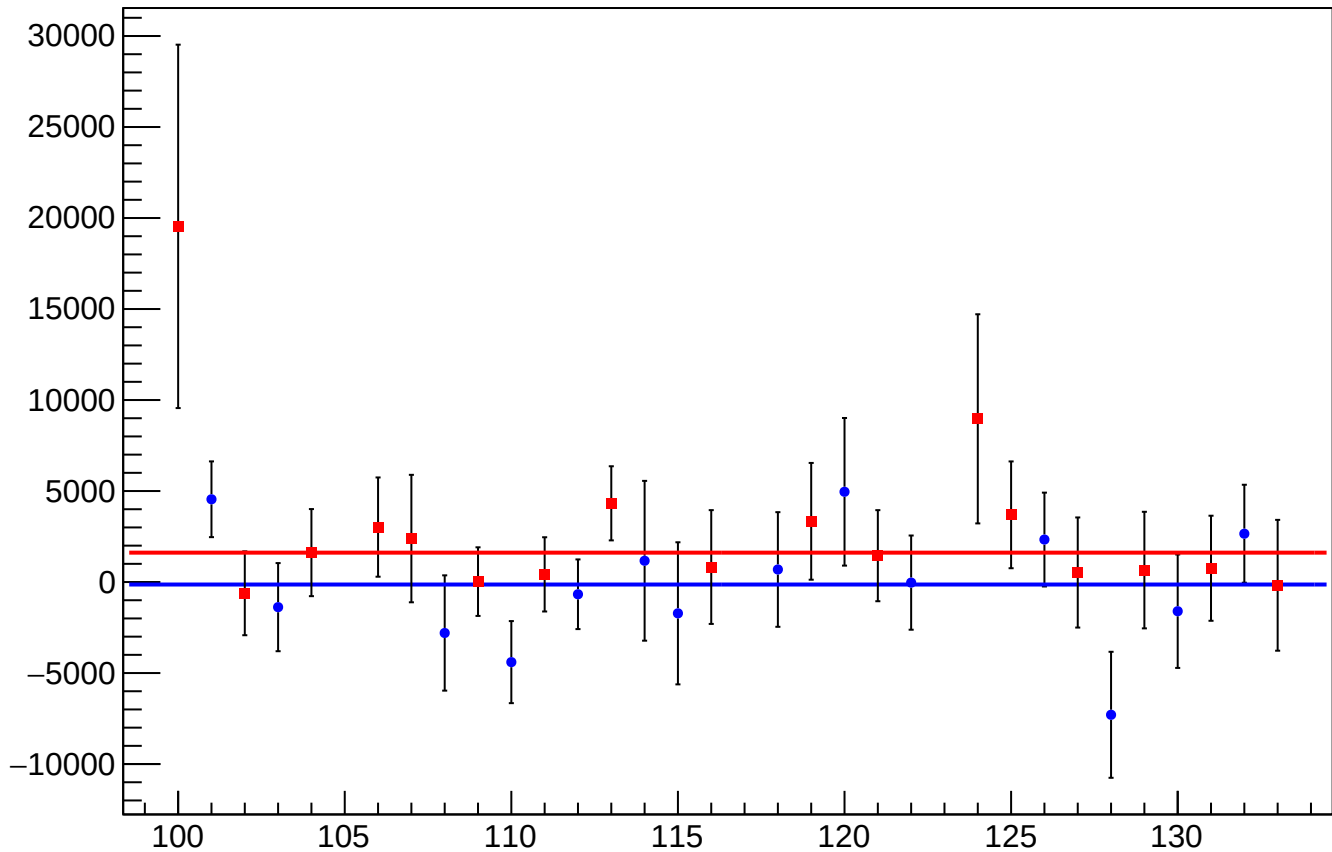
Right Out: 1607.123 $\pm$ 0.447  $\chi^2$ /NDF: 501920.0/16

All: 1633.176 $\pm$ 0.331  $\chi^2$ /NDF: 946289.1/30

- 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\_sam3\_mean vs Slug



Right In: -136.319+/-730.403  $\chi^2/\text{NDF}$ : 18.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1614.666+/-664.855  $\chi^2/\text{NDF}$ : 10.4/16

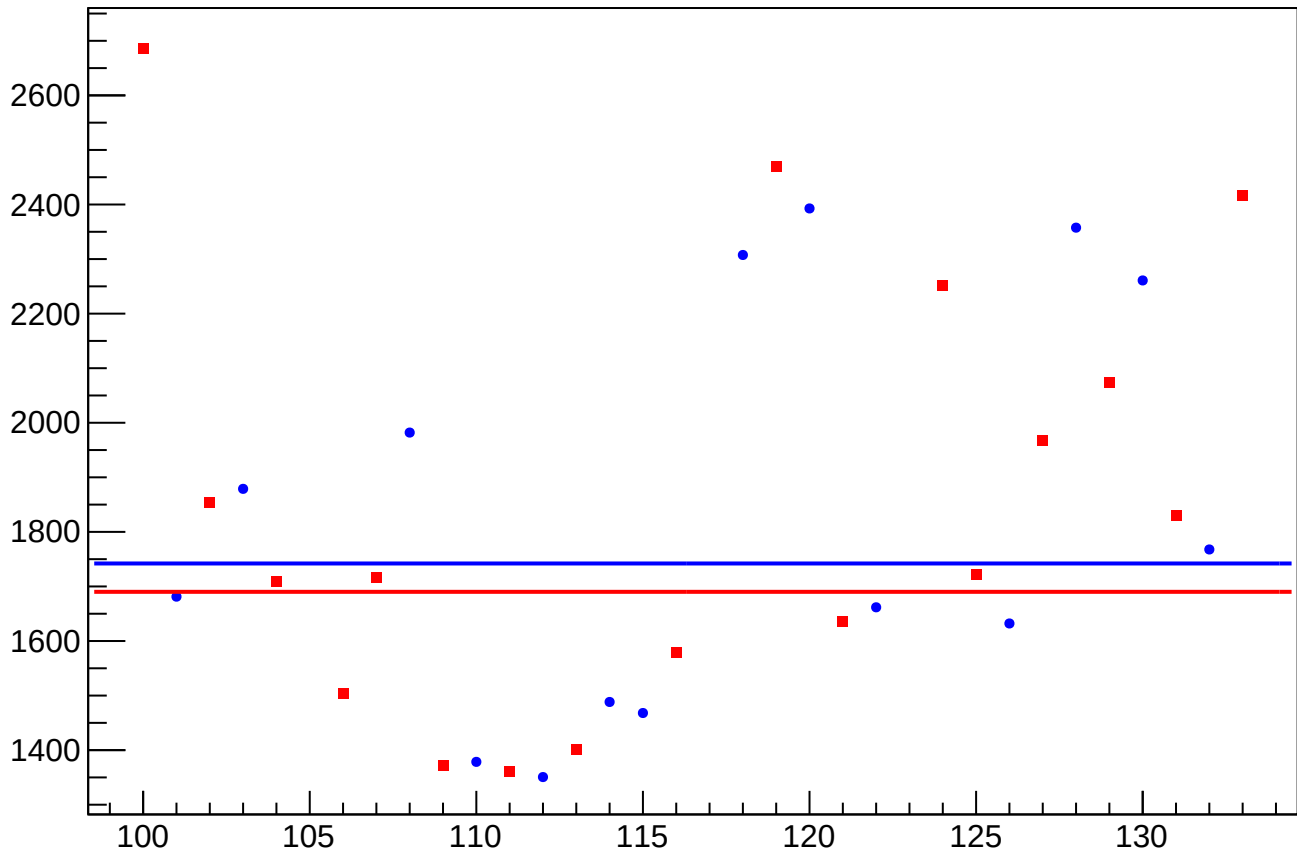
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 821.252+/-491.667  $\chi^2/\text{NDF}$ : 31.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_rms vs Slug



Right In: 1742.103+/-0.516  $\chi^2/\text{NDF}$ : 412134.8/13

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

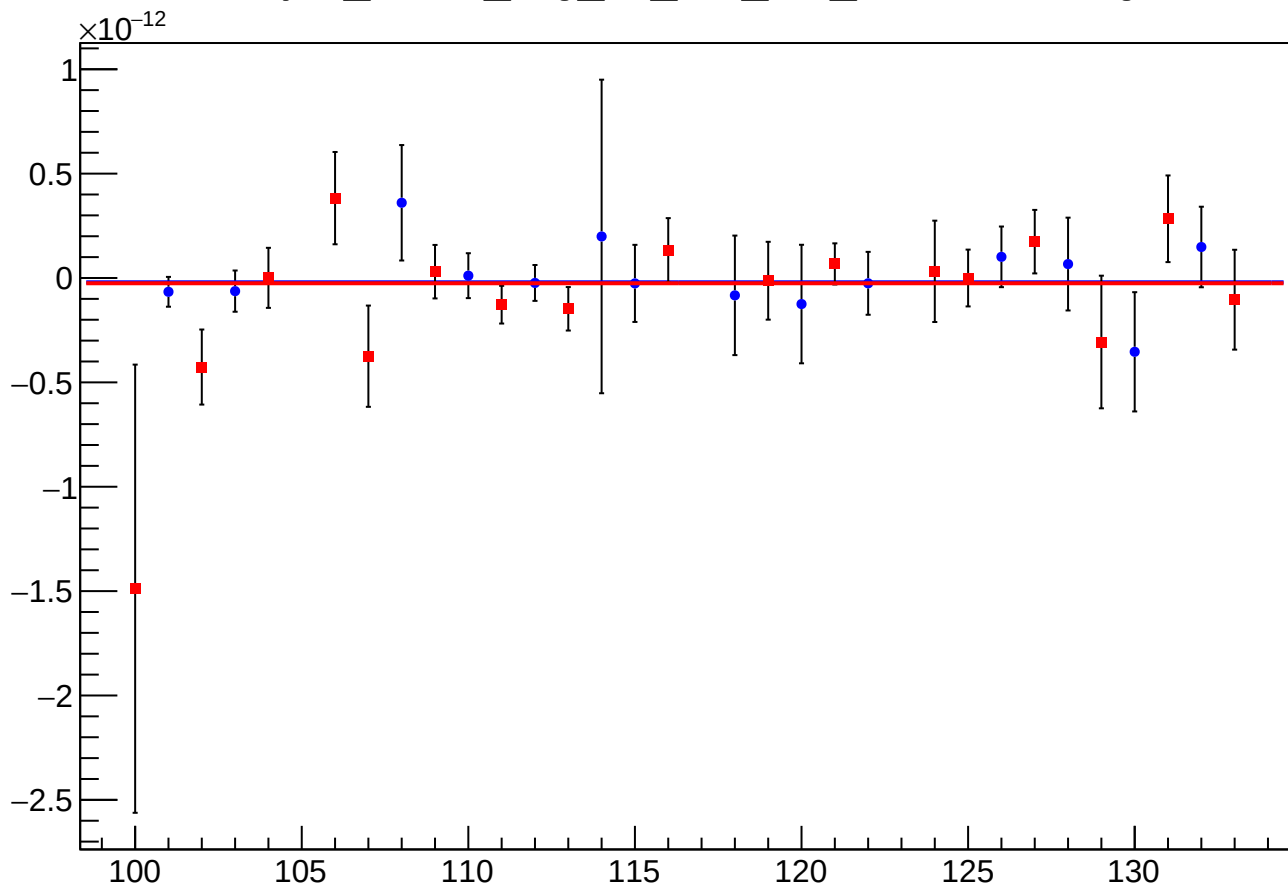
Right Out: 1690.149+/-0.470  $\chi^2/\text{NDF}$ : 461597.5/16

All: 1713.691+/-0.348  $\chi^2/\text{NDF}$ : 879266.2/30

- 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\_sam3\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 22.1/16

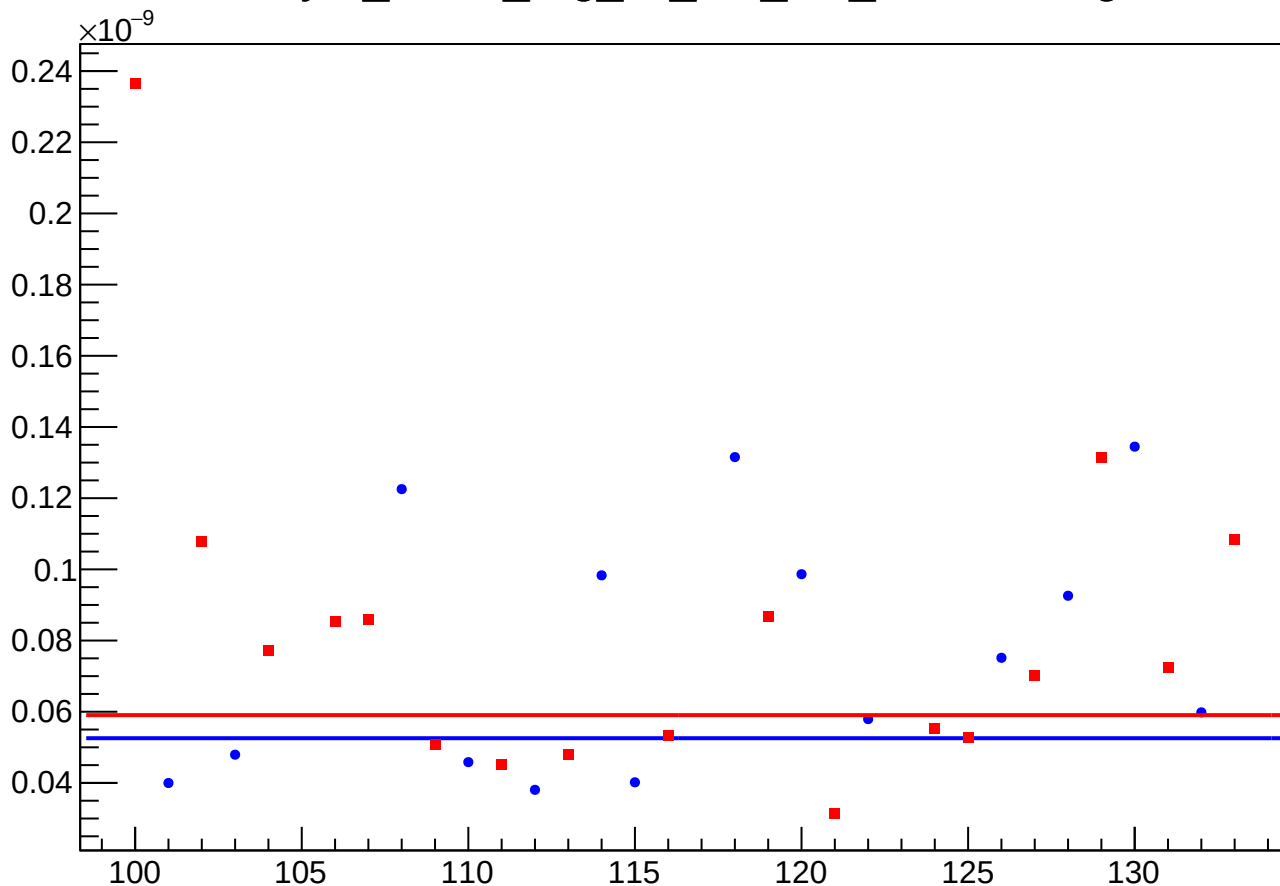
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 27.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 763678.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 780532.2/16

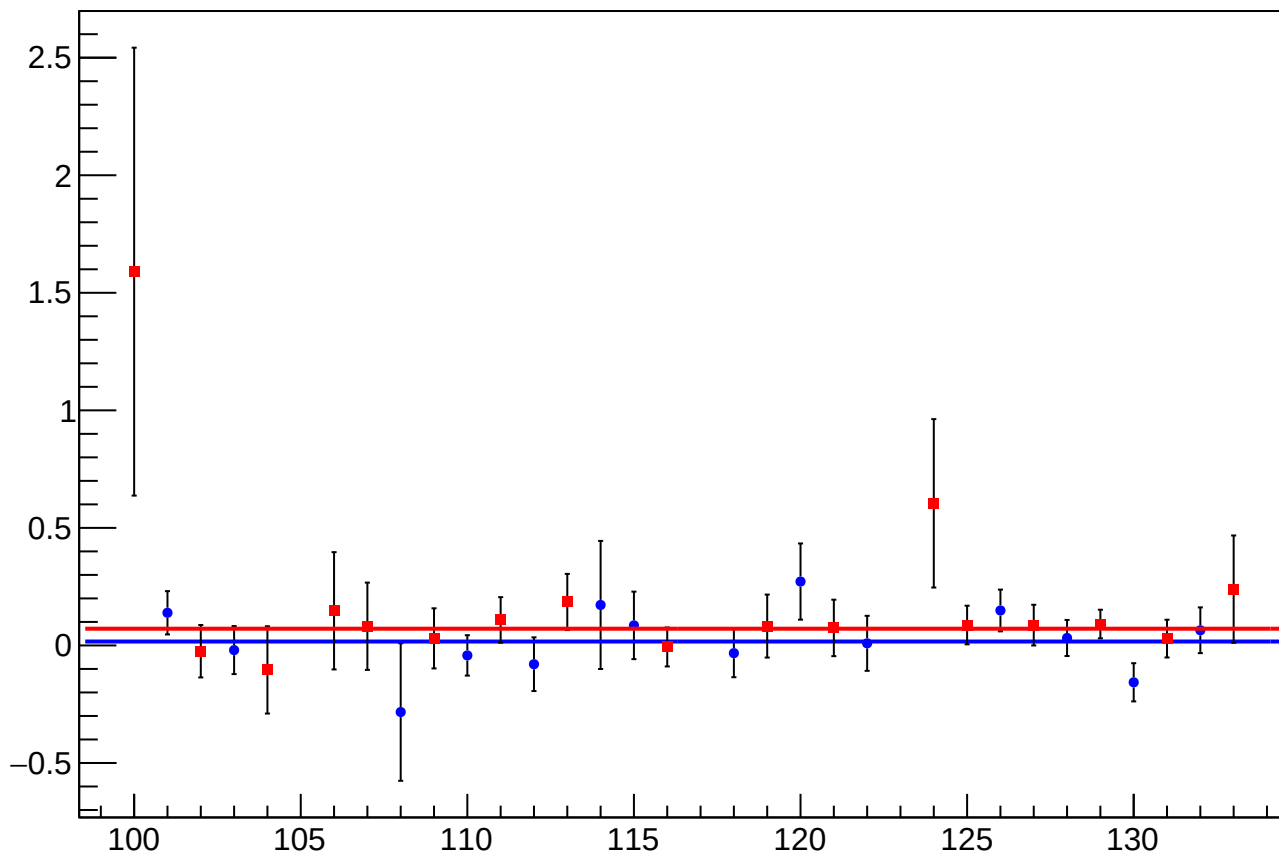
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1575141.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.017 $\pm$ 0.028  $\chi^2$ /NDF: 14.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.071 $\pm$ 0.027  $\chi^2$ /NDF: 9.5/16

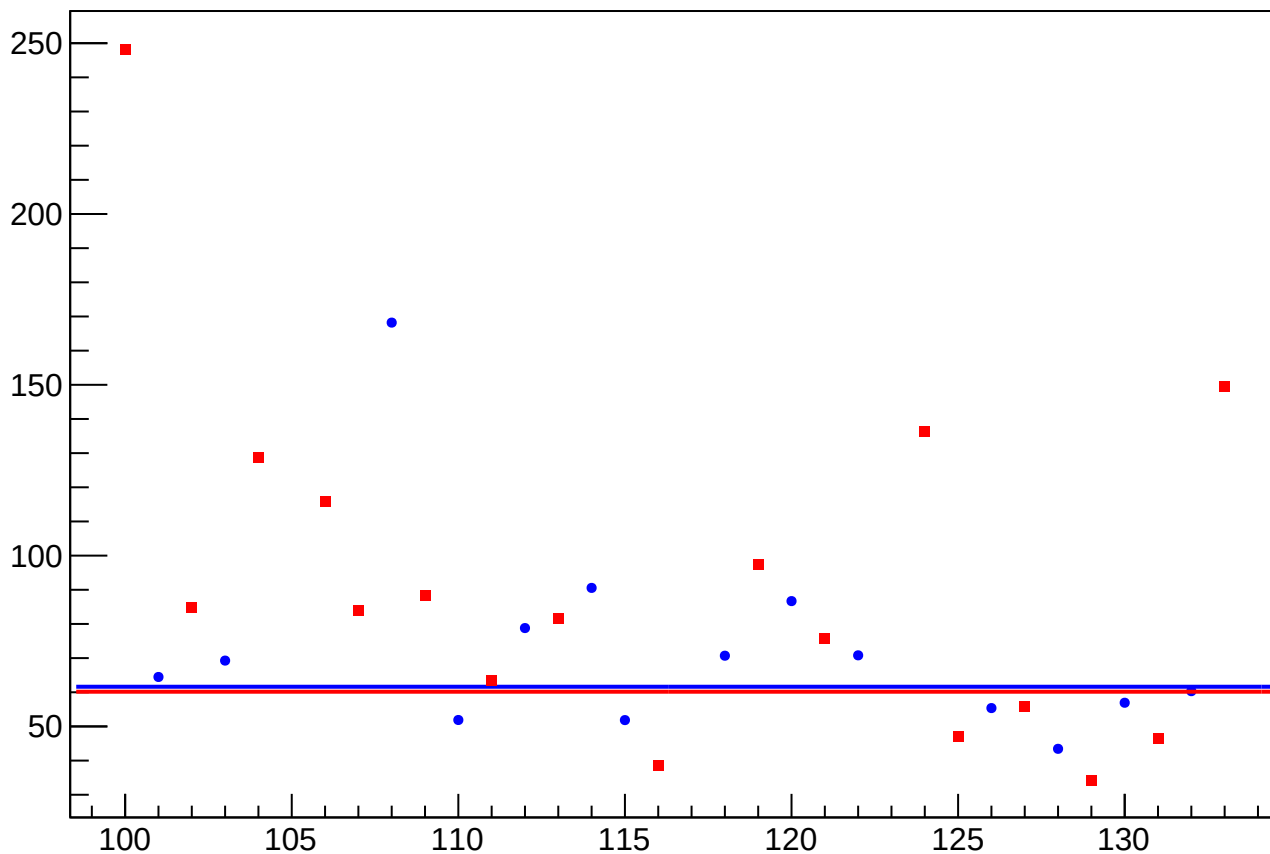
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.045 $\pm$ 0.019  $\chi^2$ /NDF: 25.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 61.618+/-0.020  $\chi^2/\text{NDF}$ : 586472.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 60.163+/-0.019  $\chi^2/\text{NDF}$ : 1944457.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

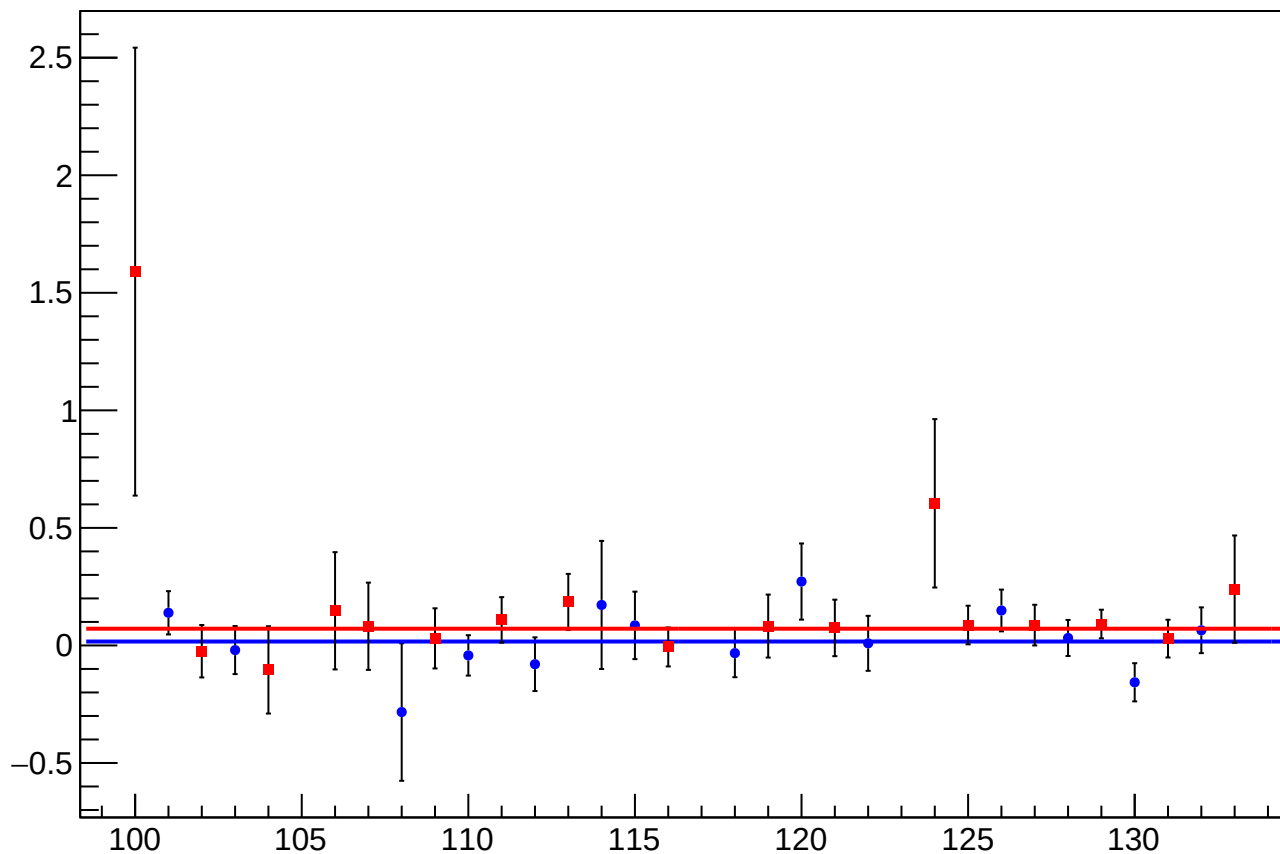
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 60.853+/-0.014  $\chi^2/\text{NDF}$ : 2533738.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam3\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.017 $\pm$ 0.028  $\chi^2$ /NDF: 14.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.071 $\pm$ 0.027  $\chi^2$ /NDF: 9.5/16

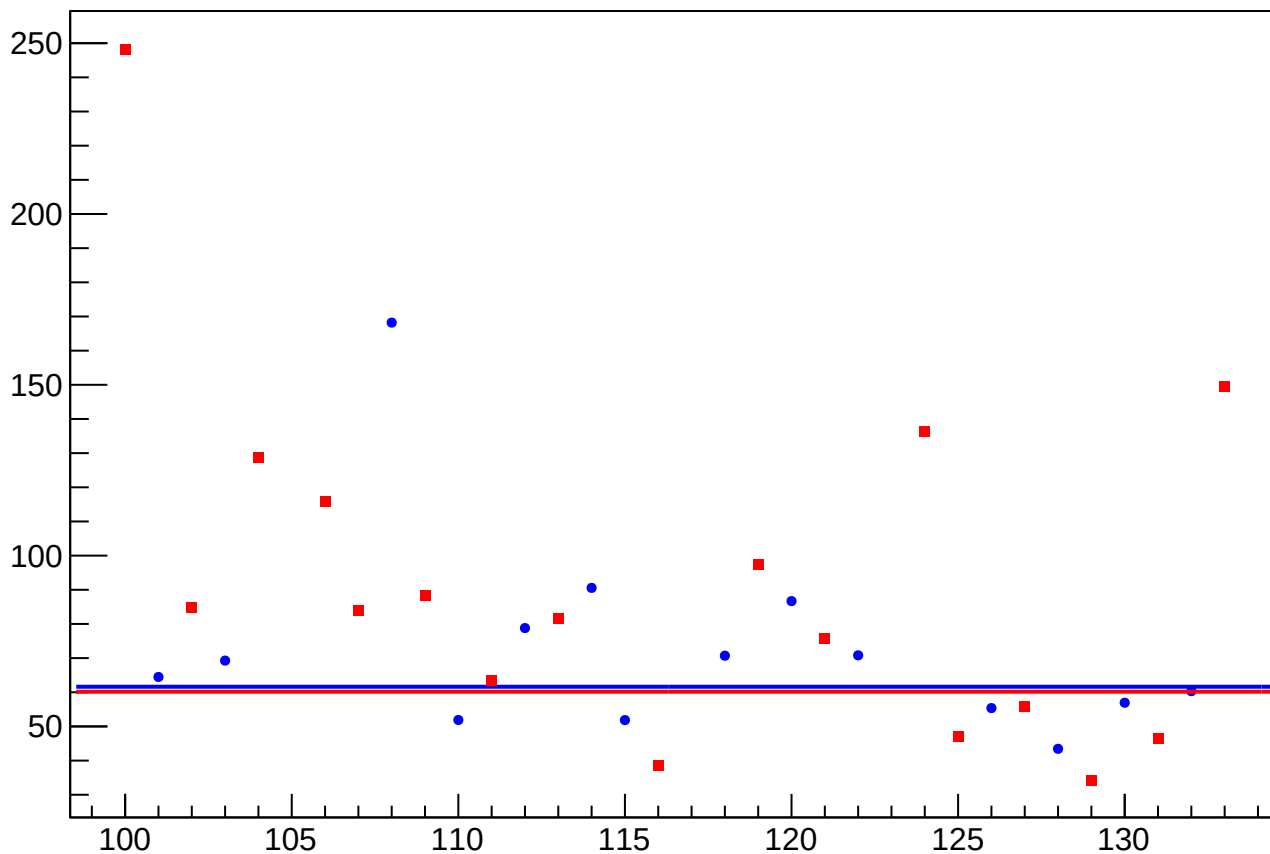
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.045 $\pm$ 0.019  $\chi^2$ /NDF: 25.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 61.618+/-0.020  $\chi^2/\text{NDF}$ : 586472.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 60.163+/-0.019  $\chi^2/\text{NDF}$ : 1944457.5/16

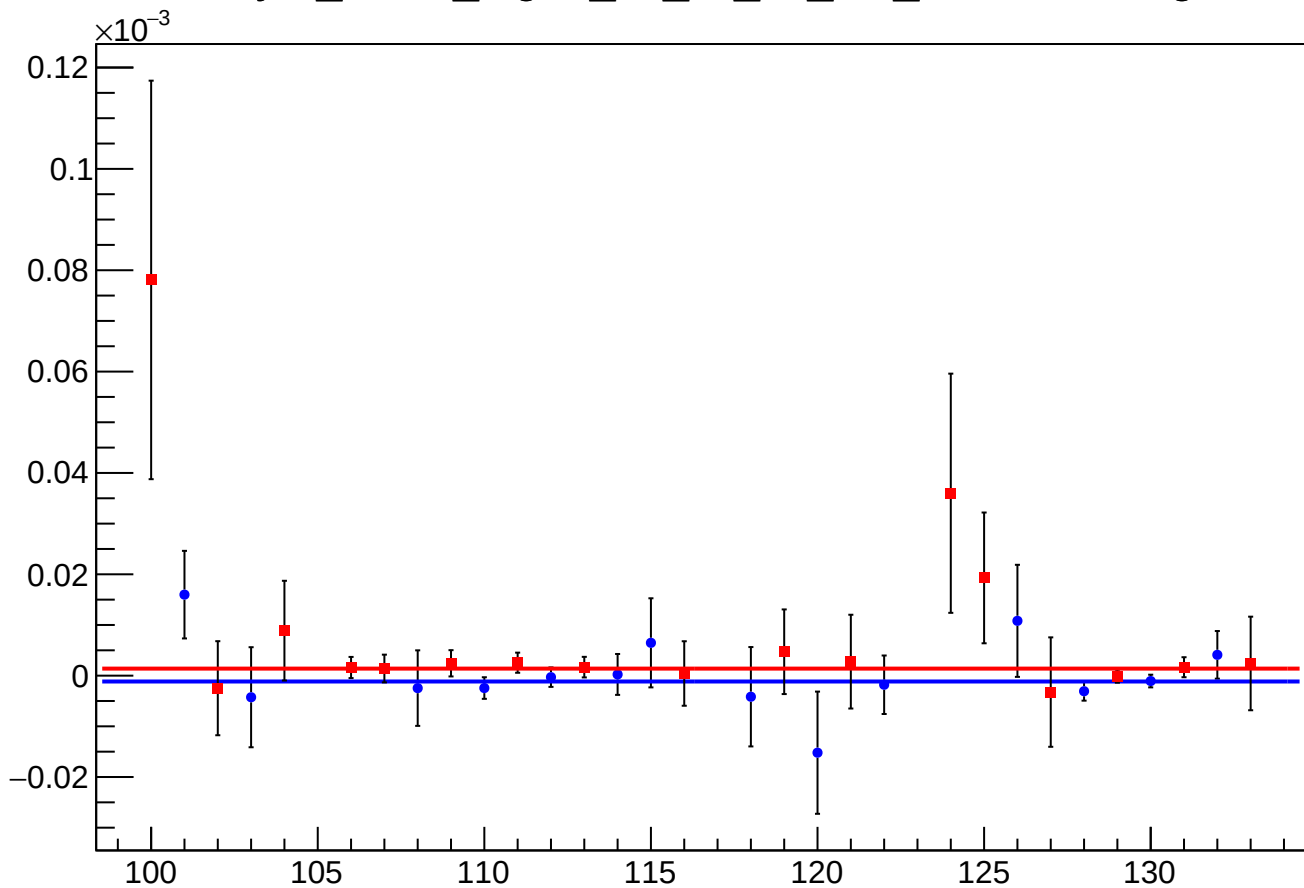
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 60.853+/-0.014  $\chi^2/\text{NDF}$ : 2533738.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.9/16

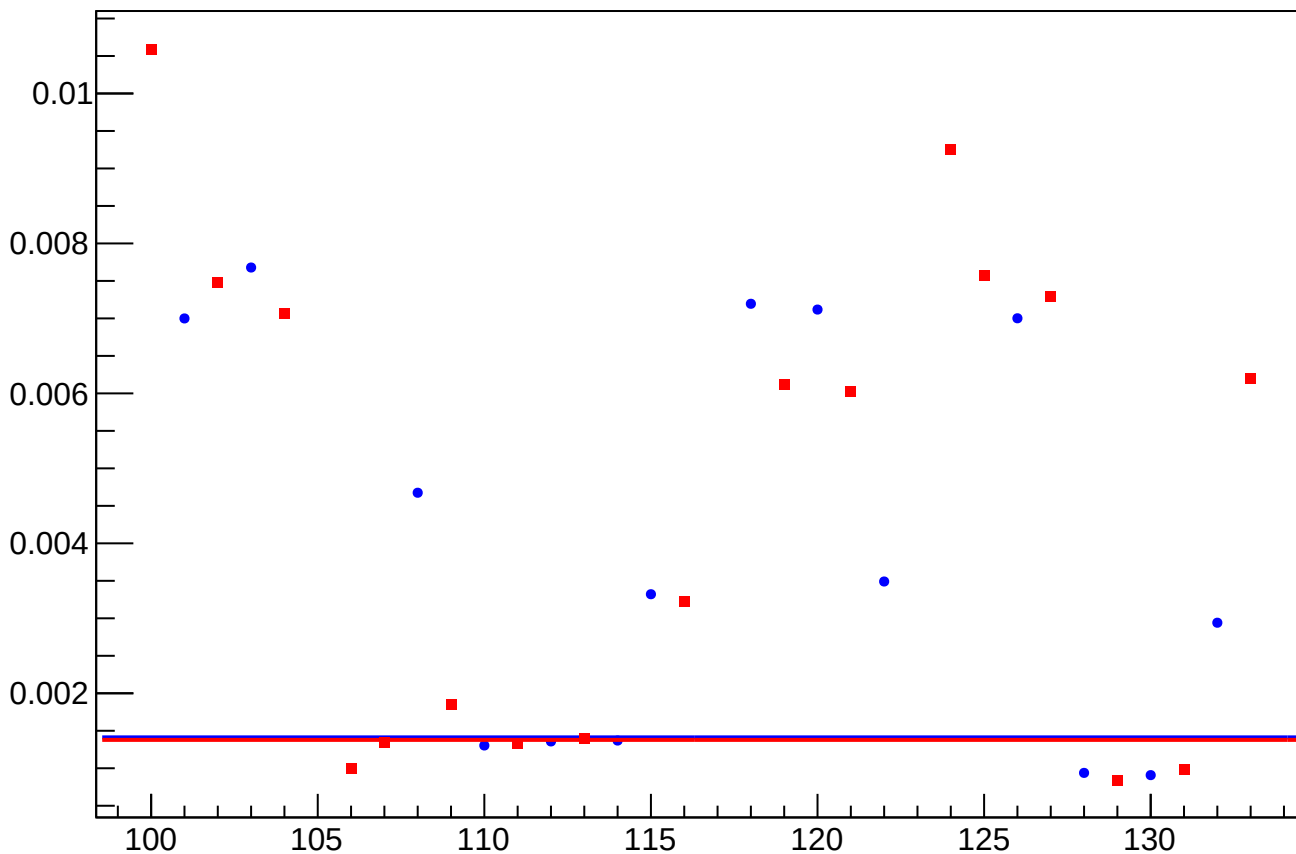
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 27.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4705906.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5361908.7/16

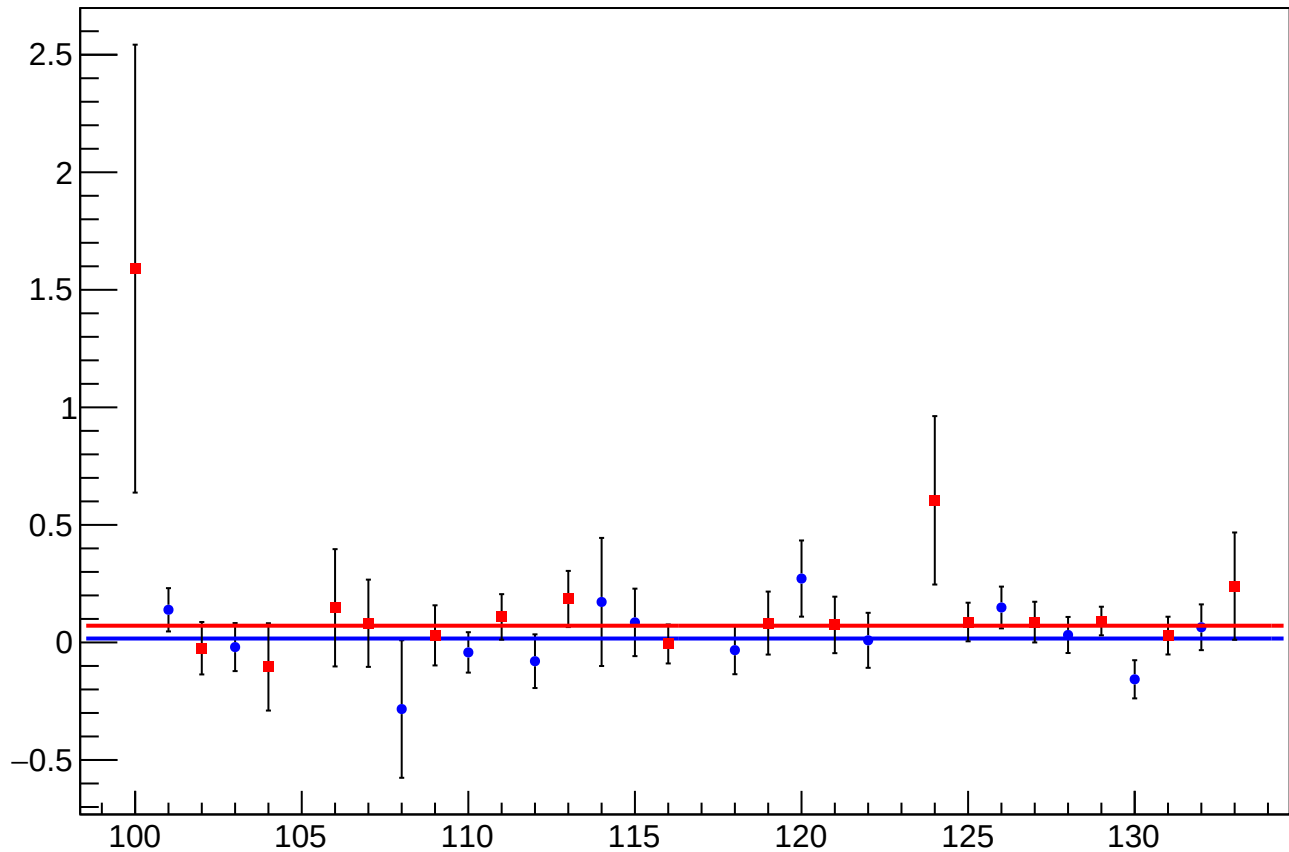
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 10069816.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam3\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.017 $\pm$ 0.028  $\chi^2$ /NDF: 14.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.071 $\pm$ 0.027  $\chi^2$ /NDF: 9.5/16

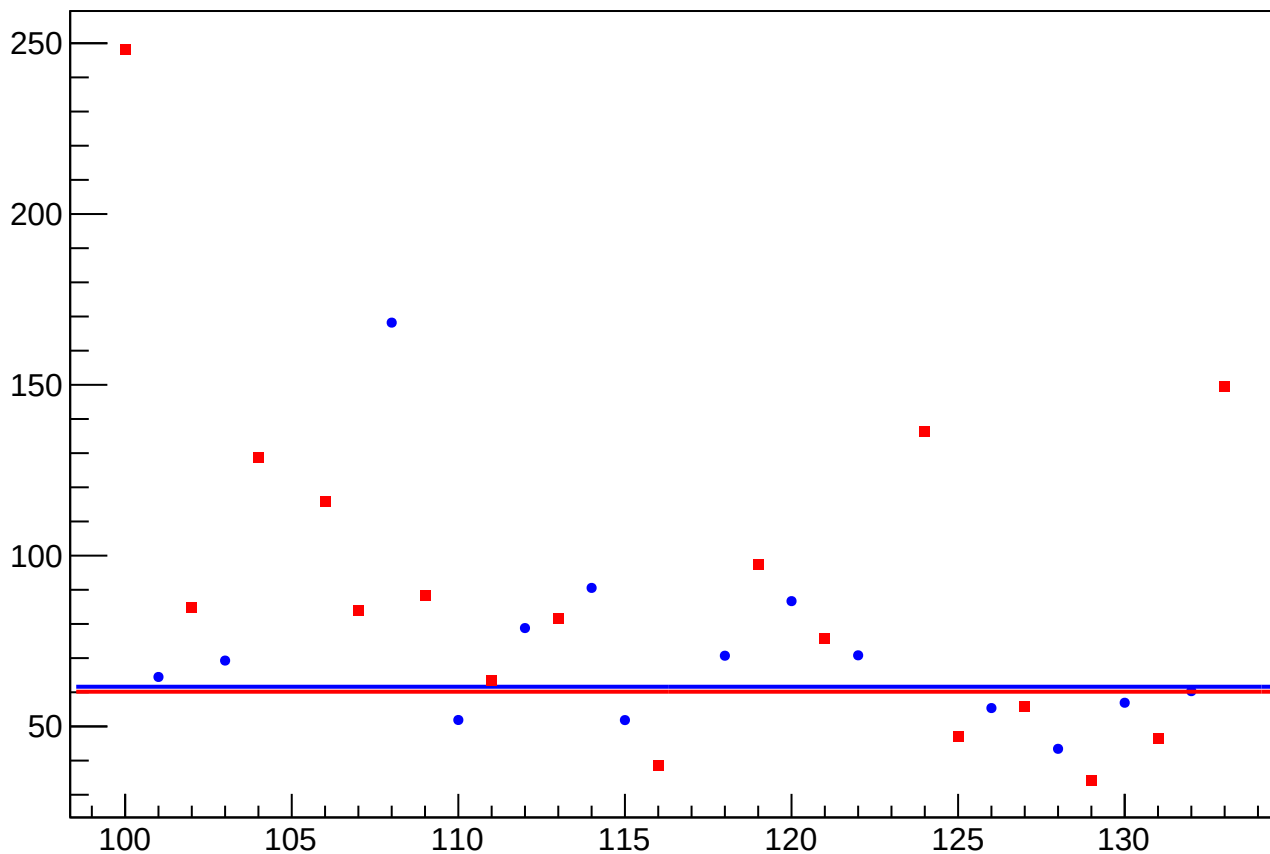
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.045 $\pm$ 0.019  $\chi^2$ /NDF: 25.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 61.620 $\pm$ 0.020  $\chi^2$ /NDF: 586486.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 60.164 $\pm$ 0.019  $\chi^2$ /NDF: 1944529.5/16

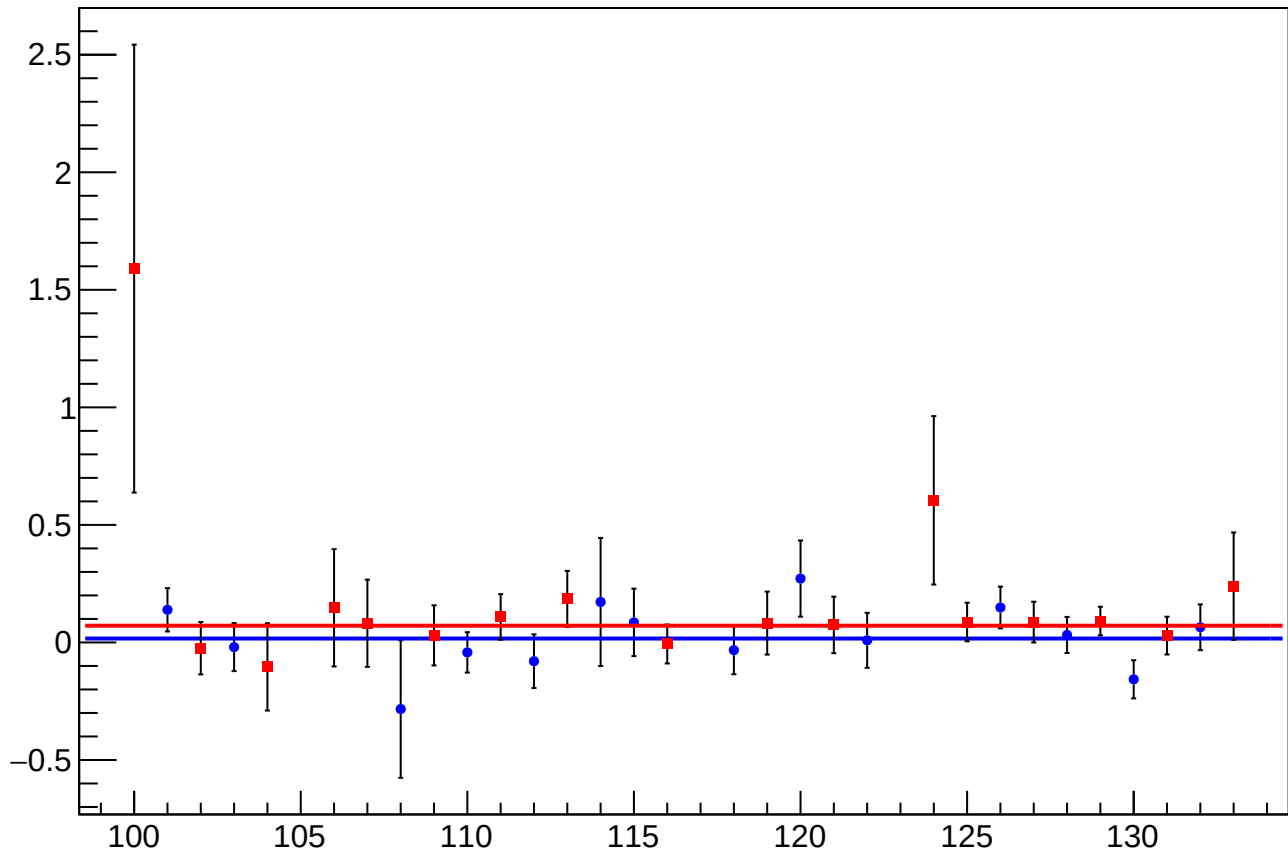
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 60.854 $\pm$ 0.014  $\chi^2$ /NDF: 2533826.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam3\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.017 $\pm$ 0.028  $\chi^2$ /NDF: 14.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.071 $\pm$ 0.027  $\chi^2$ /NDF: 9.5/16

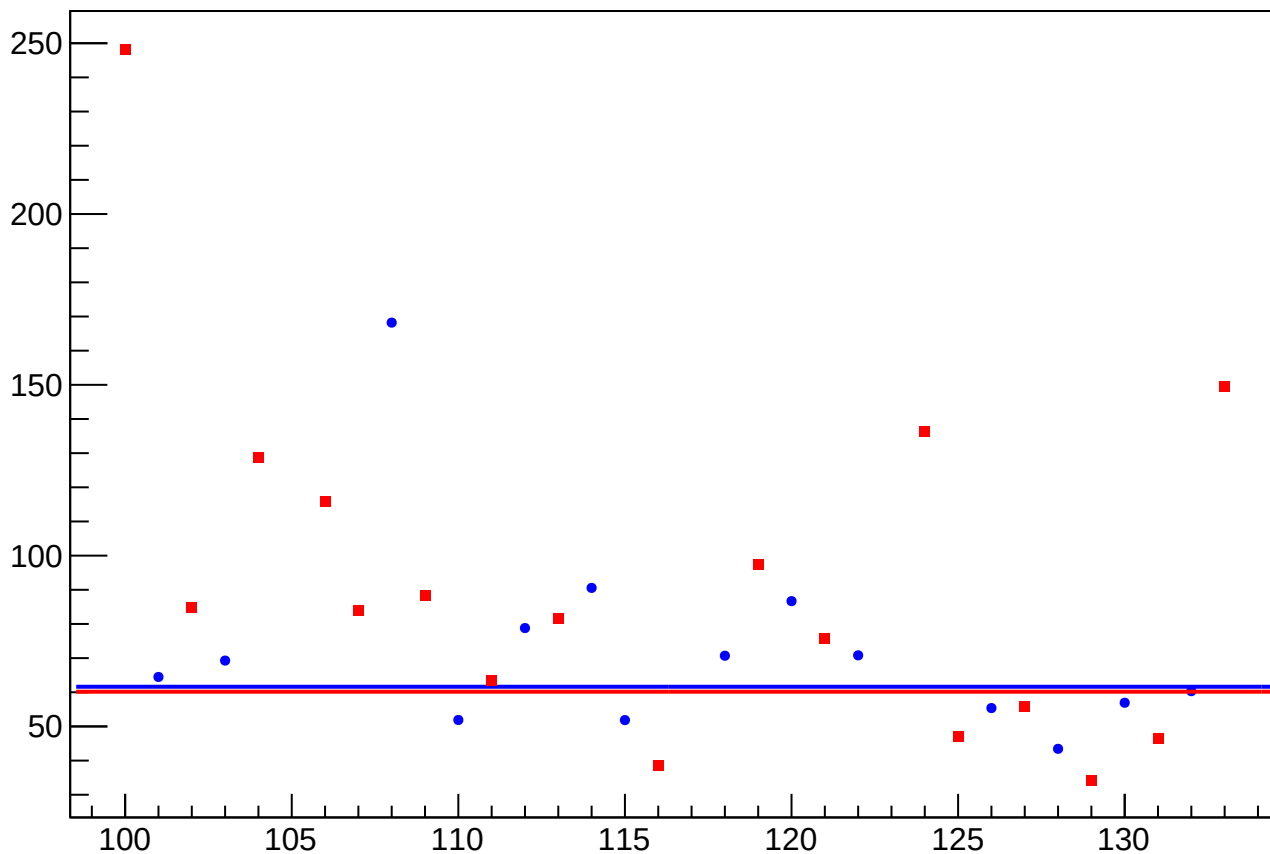
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.045 $\pm$ 0.019  $\chi^2$ /NDF: 25.9/30

- 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: 61.620 $\pm$ 0.020  $\chi^2$ /NDF: 586486.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 60.164 $\pm$ 0.019  $\chi^2$ /NDF: 1944529.5/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

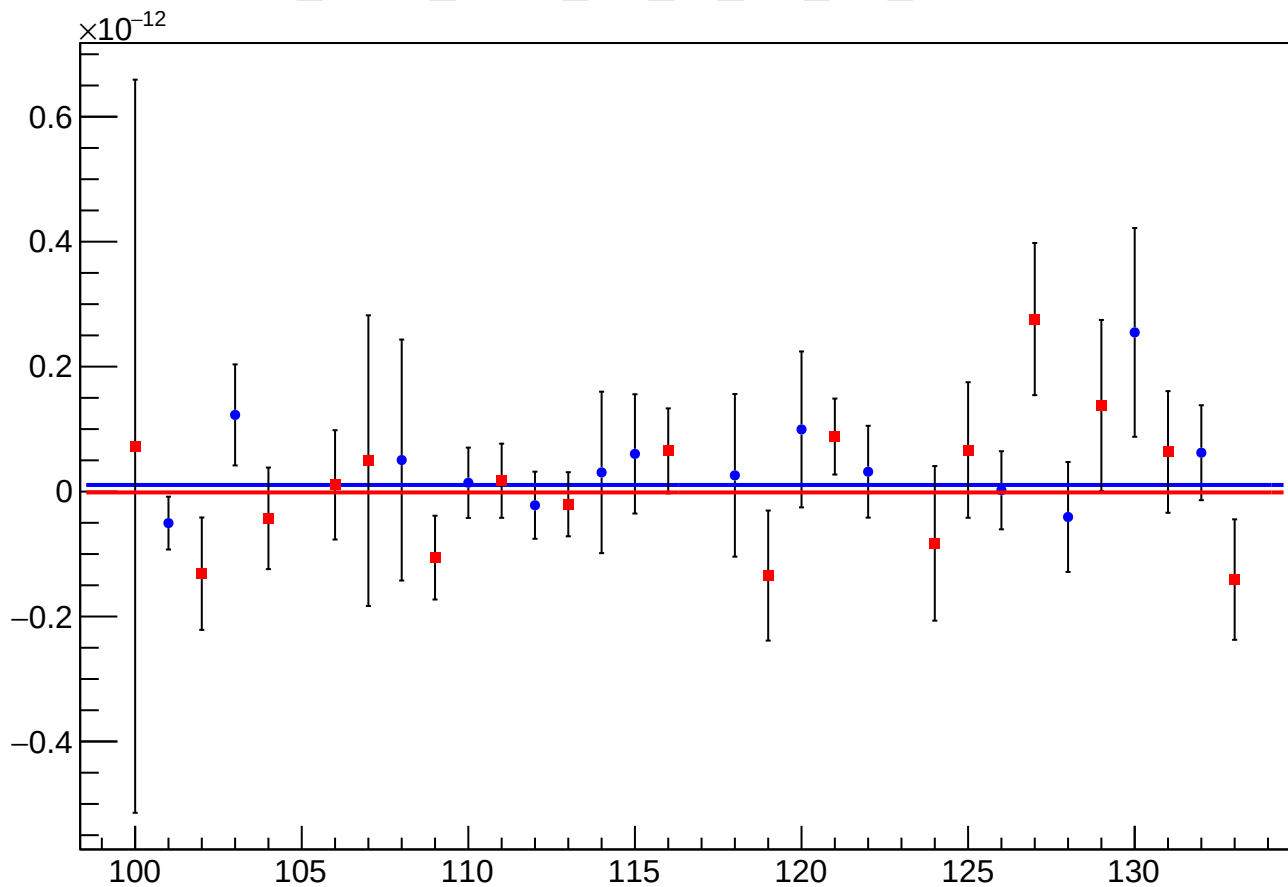
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 60.854 $\pm$ 0.014  $\chi^2$ /NDF: 2533826.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam3\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.4/16

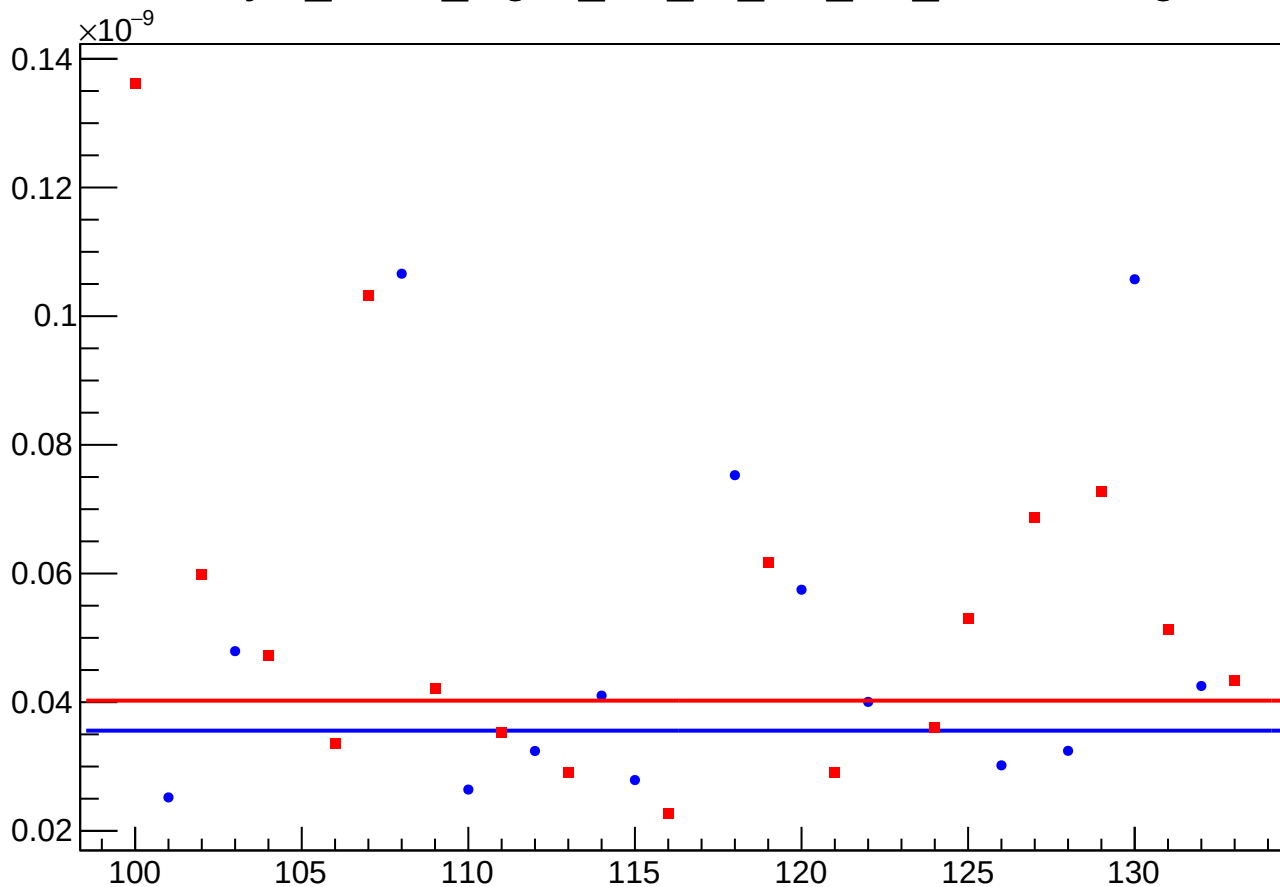
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 27.9/30

- 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  $\chi^2/\text{NDF}$ : 1156517.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 996581.9/16

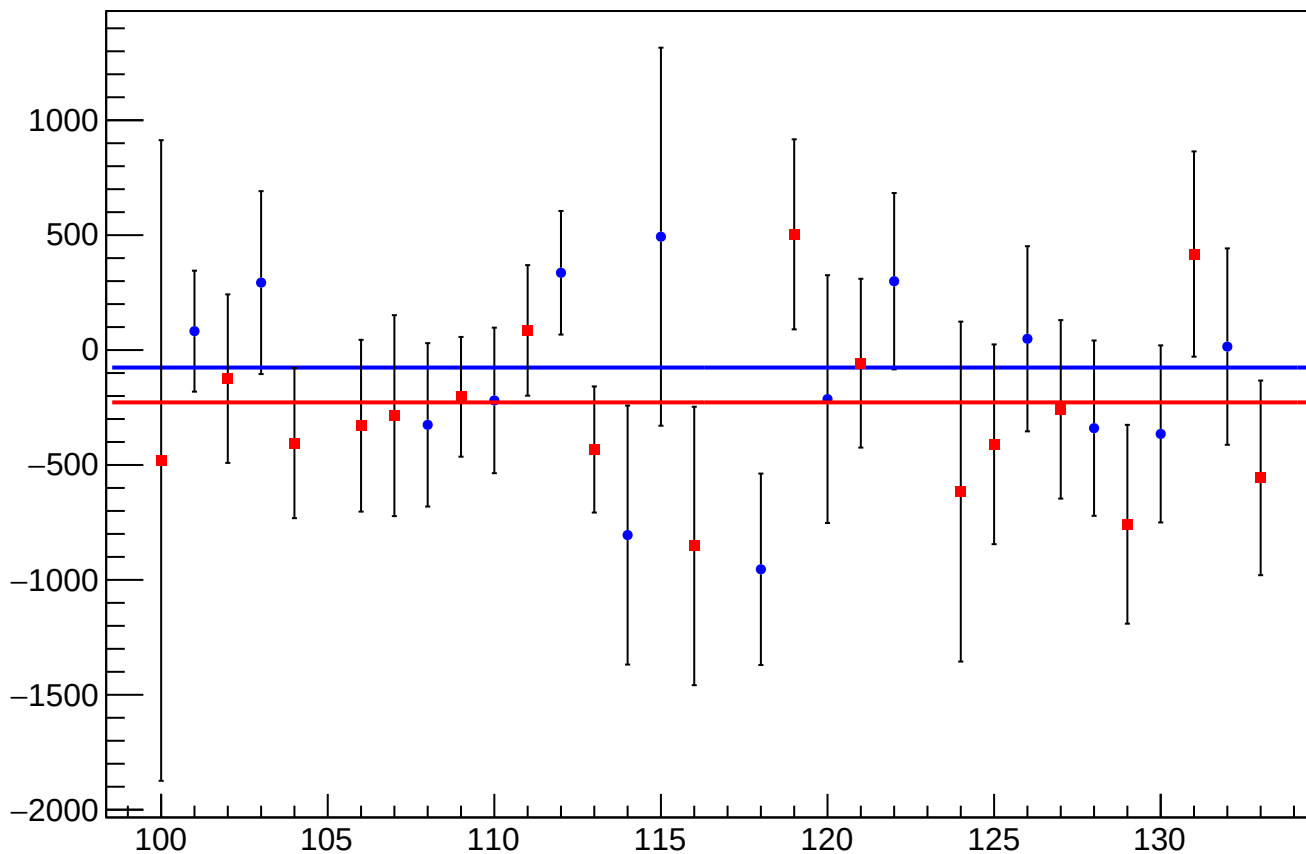
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2205853.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_mean vs Slug



Right In:  $-76.099 \pm 100.838$   $\chi^2/\text{NDF}$ : 13.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-227.697 \pm 92.925$   $\chi^2/\text{NDF}$ : 11.3/16

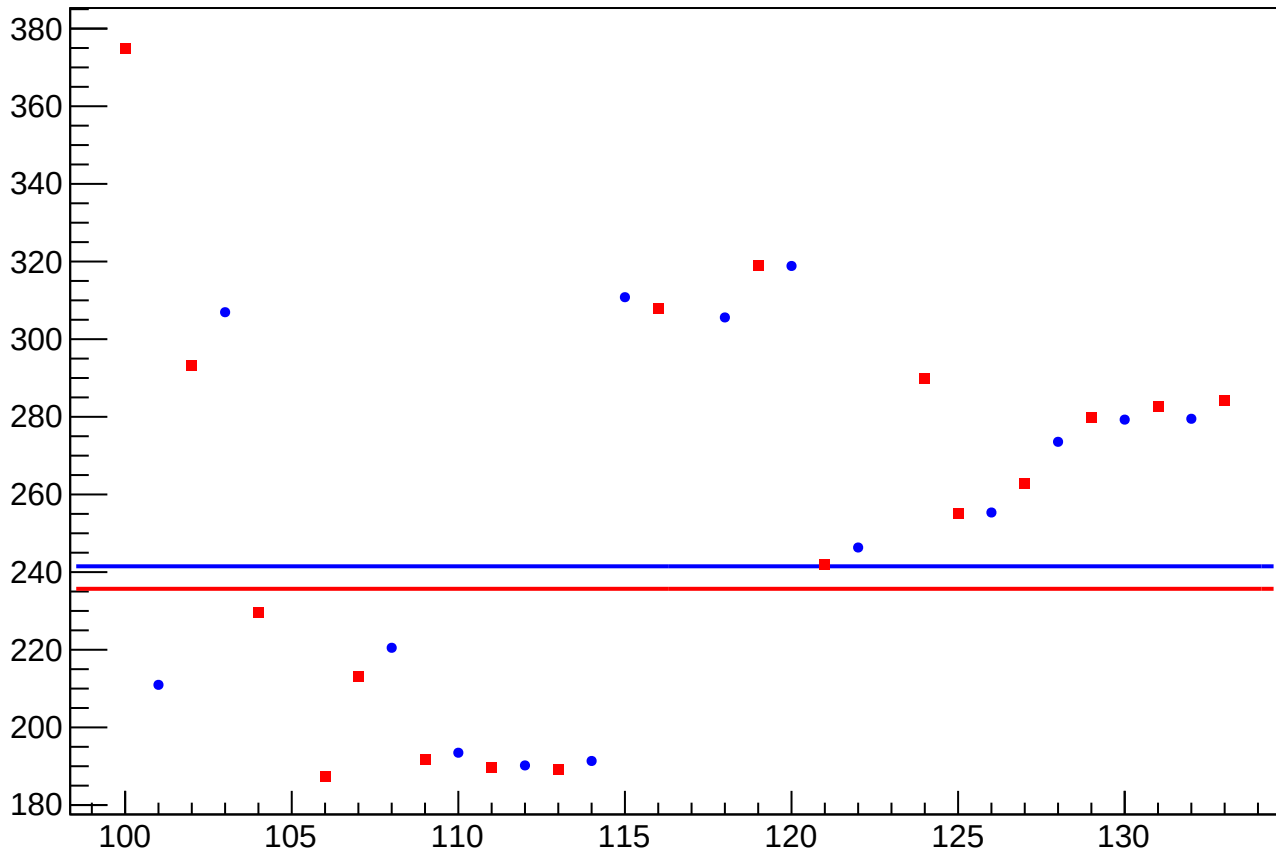
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-158.079 \pm 68.334$   $\chi^2/\text{NDF}$ : 25.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_rms vs Slug



Right In: 241.496+/-0.071  $\chi^2/\text{NDF}$ : 377186.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 235.700+/-0.066  $\chi^2/\text{NDF}$ : 479256.5/16

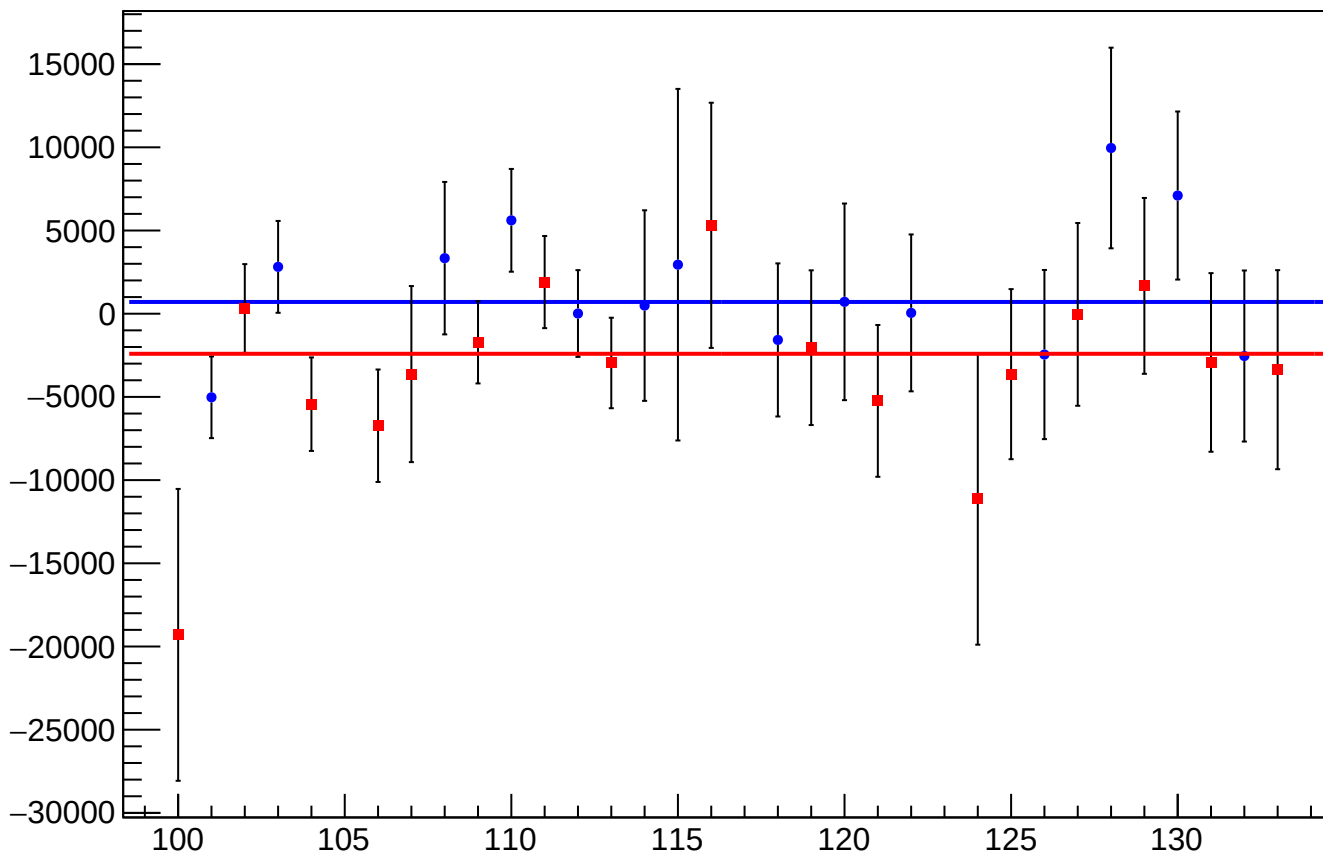
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 238.362+/-0.048  $\chi^2/\text{NDF}$ : 860016.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_reg\_correction\_mean vs Slug



Right In: 706.510 $\pm$ 1053.816  $\chi^2$ /NDF: 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2408.452 $\pm$ 941.211  $\chi^2$ /NDF: 13.5/16

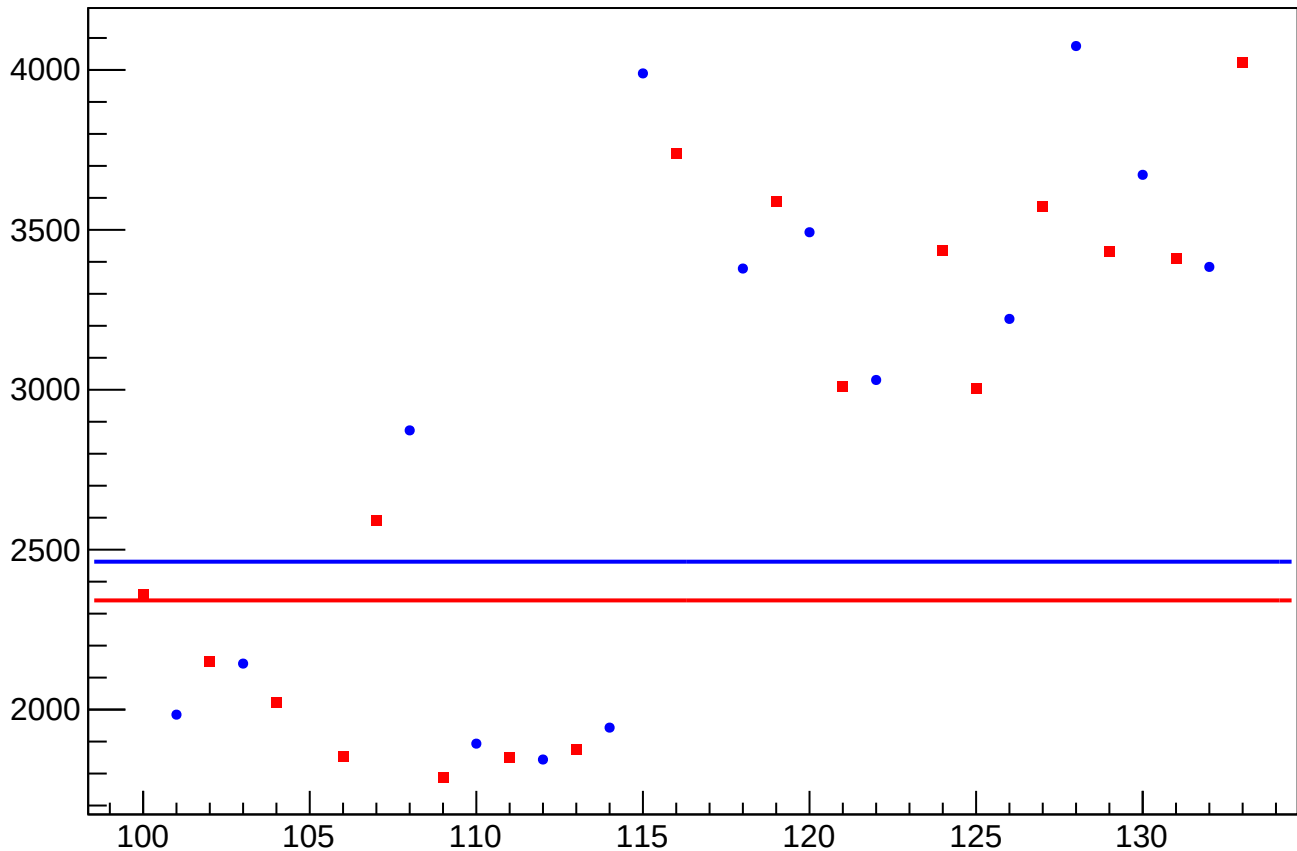
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1026.230 $\pm$ 701.984  $\chi^2$ /NDF: 32.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_reg\_correction\_rms vs Slug



Right In: 2462.439+/-0.745  $\chi^2/\text{NDF}$ : 893240.2/13

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

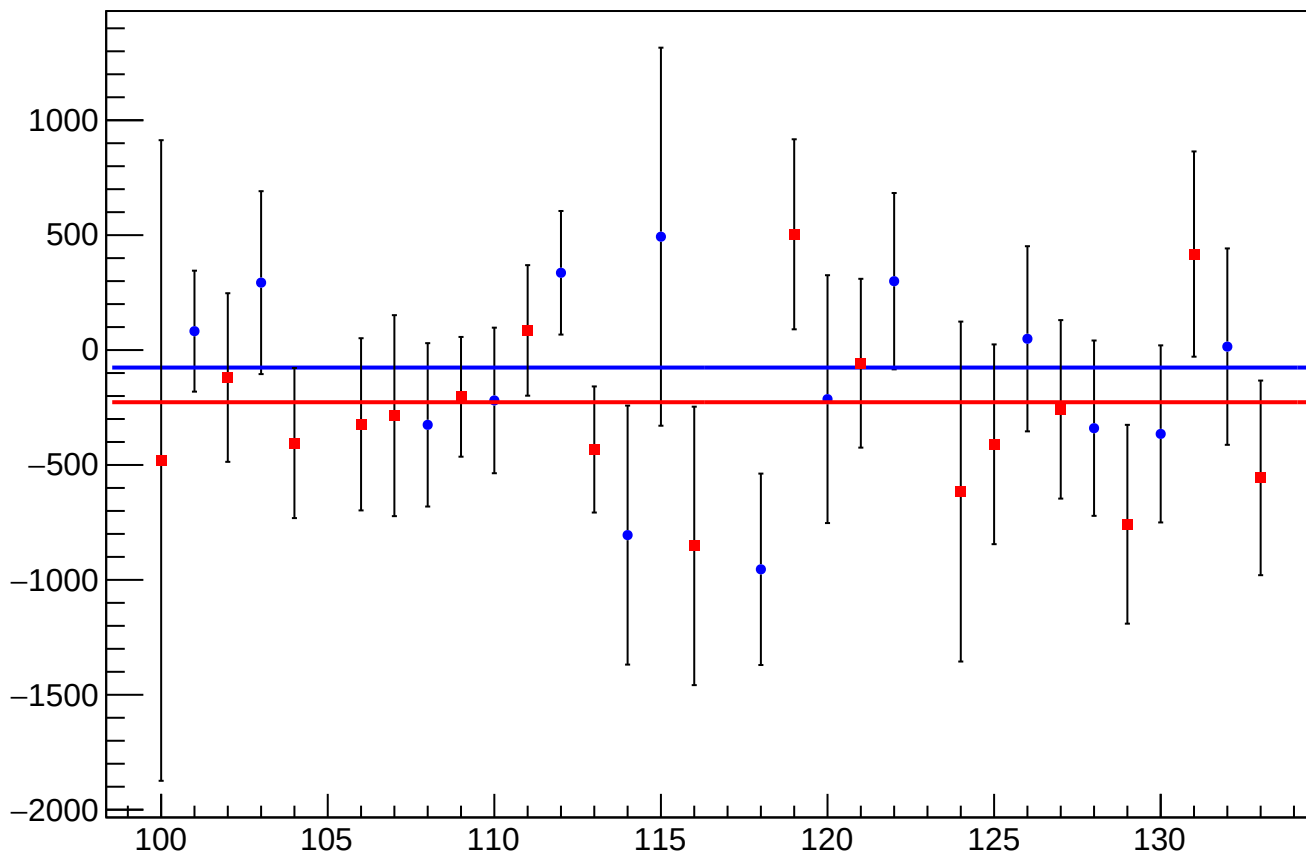
Right Out: 2341.369+/-0.666  $\chi^2/\text{NDF}$ : 1051179.3/16

All: 2395.092+/-0.496  $\chi^2/\text{NDF}$ : 1959103.9/30

- 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\_sam4\_mean vs Slug



Right In: -76.138 $\pm$ 100.838  $\chi^2$ /NDF: 13.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -226.967 $\pm$ 92.941  $\chi^2$ /NDF: 11.3/16

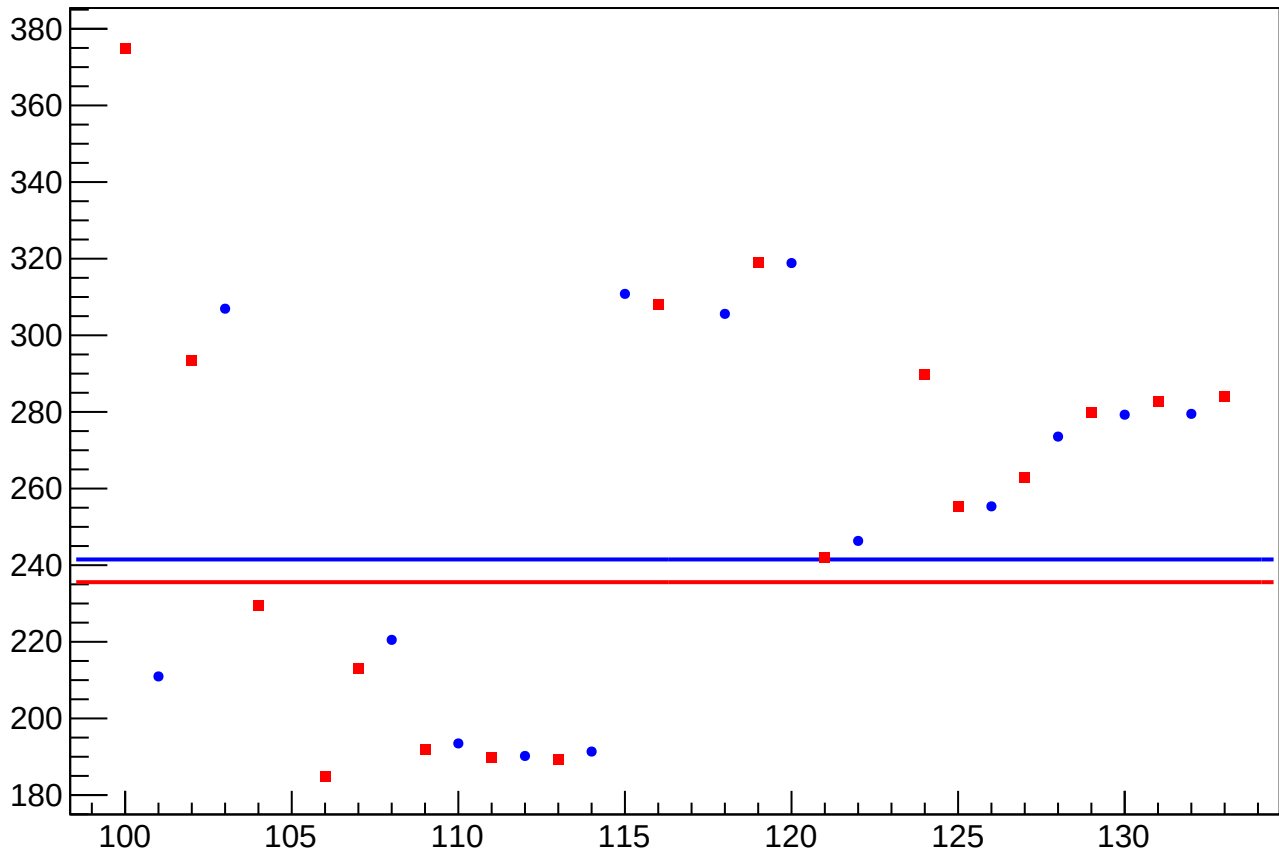
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -157.689 $\pm$ 68.341  $\chi^2$ /NDF: 25.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam4\_rms vs Slug



Right In: 241.496+/-0.071  $\chi^2/\text{NDF}$ : 377189.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 235.565+/-0.066  $\chi^2/\text{NDF}$ : 482832.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

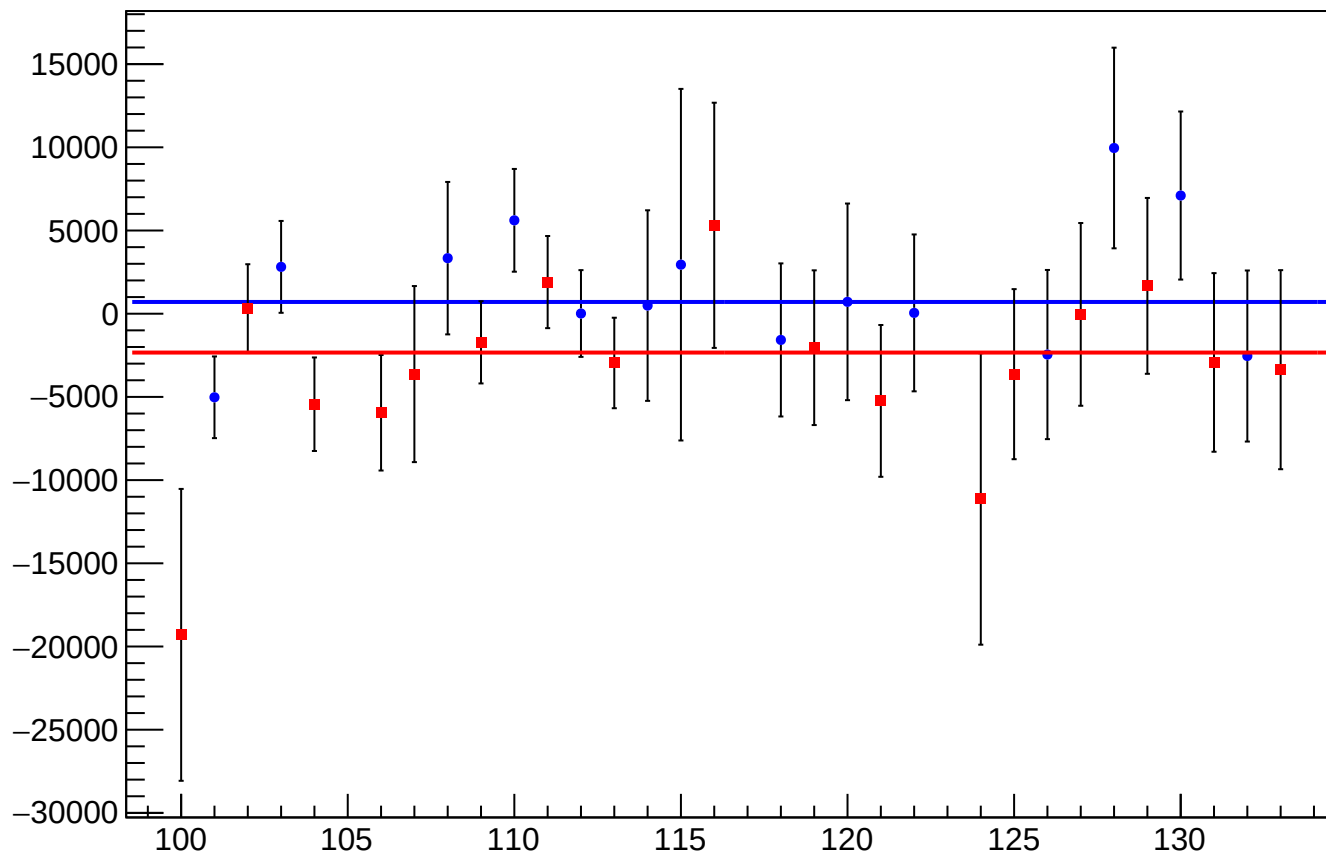
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 238.289+/-0.048  $\chi^2/\text{NDF}$ : 863763.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam4\_cor\_correction\_mean vs Slug



Right In: 706.312 $\pm$ 1053.828  $\chi^2$ /NDF: 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2334.778 $\pm$ 943.184  $\chi^2$ /NDF: 12.9/16

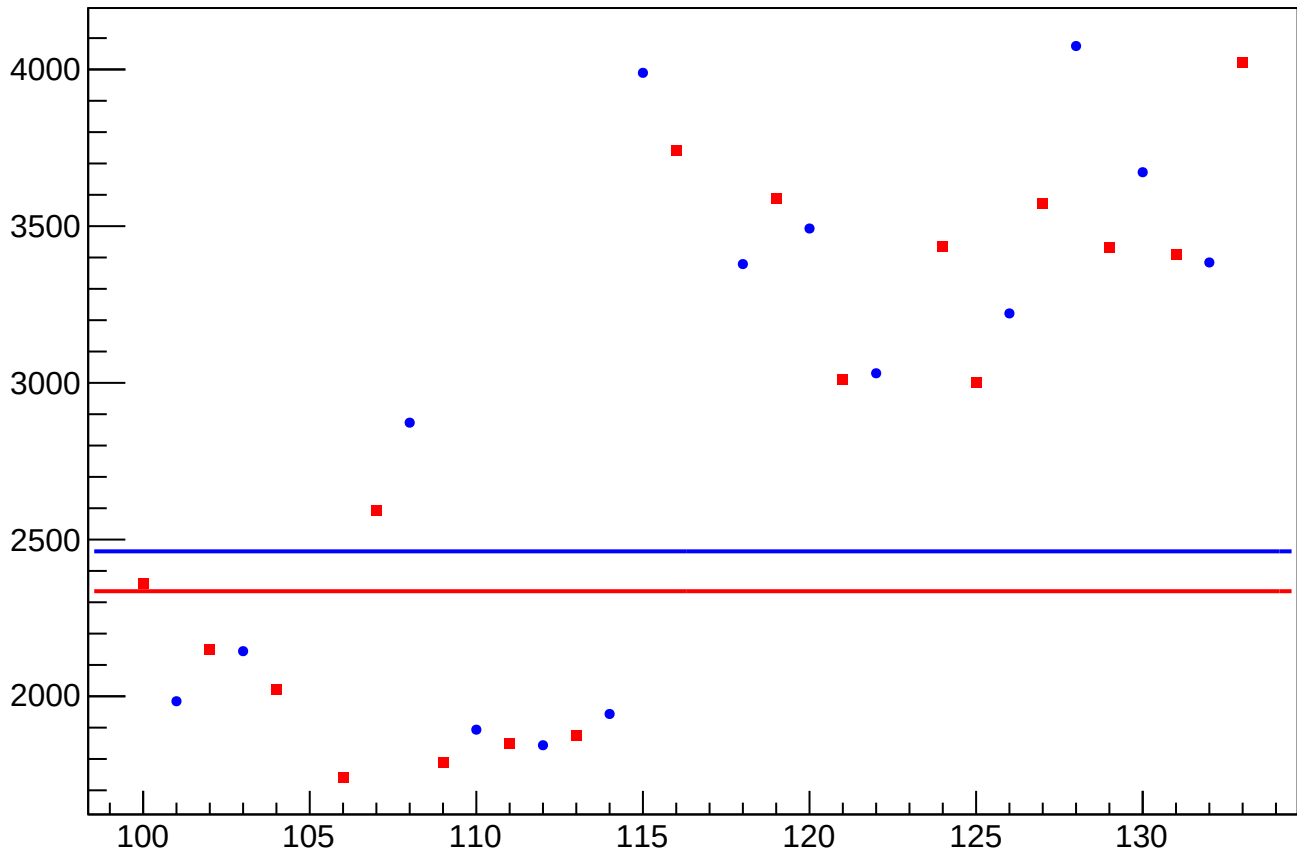
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -982.207 $\pm$ 702.805  $\chi^2$ /NDF: 31.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_cor\_correction\_rms vs Slug



Right In: 2462.470+/-0.745  $\chi^2/\text{NDF}$ : 893208.0/13

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

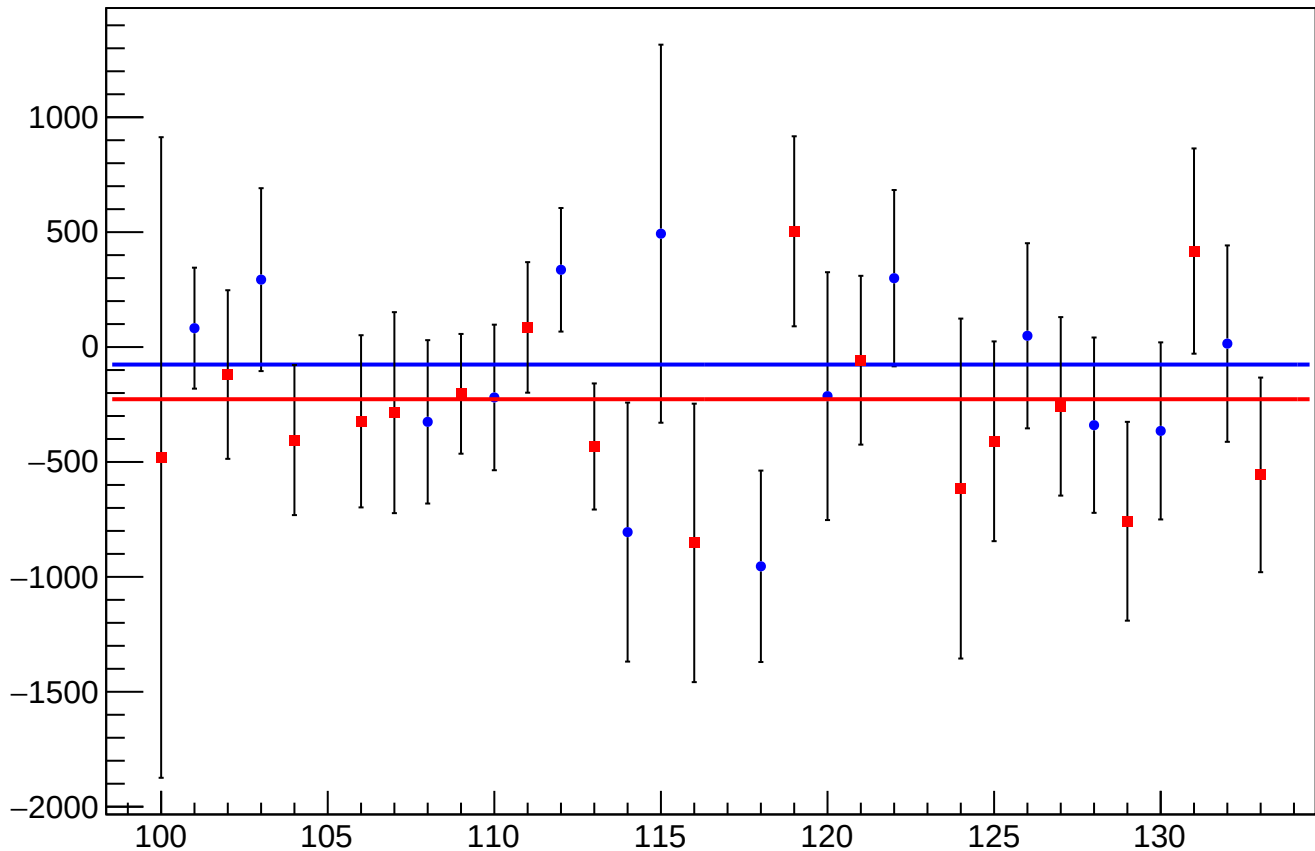
Right Out: 2335.253+/-0.667  $\chi^2/\text{NDF}$ : 1068942.2/16

All: 2391.834+/-0.497  $\chi^2/\text{NDF}$ : 1978333.3/30

- 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\_sam4\_mean vs Slug



Right In: -76.138 $\pm$ 100.838  $\chi^2$ /NDF: 13.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -226.967 $\pm$ 92.941  $\chi^2$ /NDF: 11.3/16

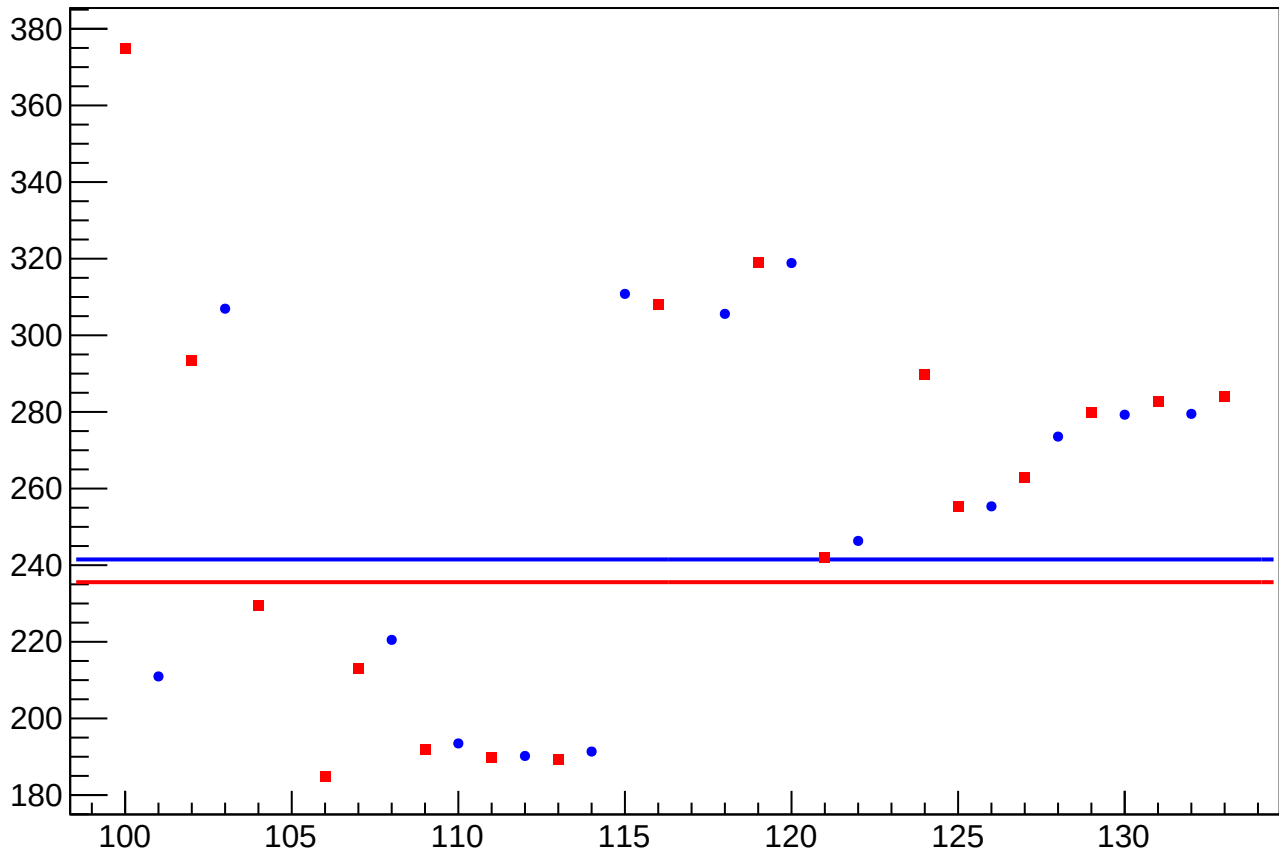
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -157.689 $\pm$ 68.341  $\chi^2$ /NDF: 25.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam4\_rms vs Slug



Right In: 241.496+/-0.071  $\chi^2/\text{NDF}$ : 377189.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 235.565+/-0.066  $\chi^2/\text{NDF}$ : 482832.3/16

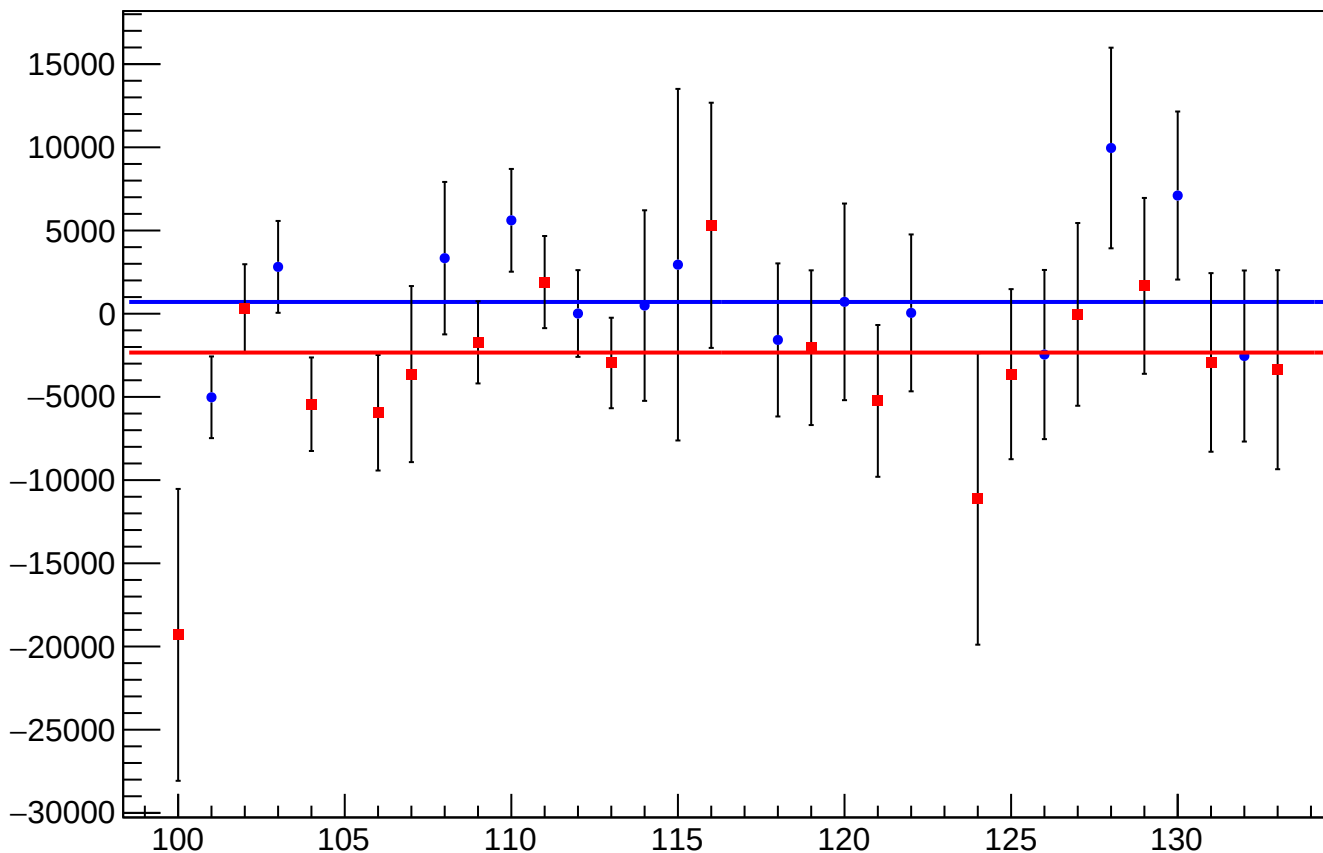
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 238.289+/-0.048  $\chi^2/\text{NDF}$ : 863763.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_eigen\_cor\_correction\_mean vs Slug



Right In: 706.312 $\pm$ 1053.828  $\chi^2/\text{NDF}$ : 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2334.778 $\pm$ 943.184  $\chi^2/\text{NDF}$ : 12.9/16

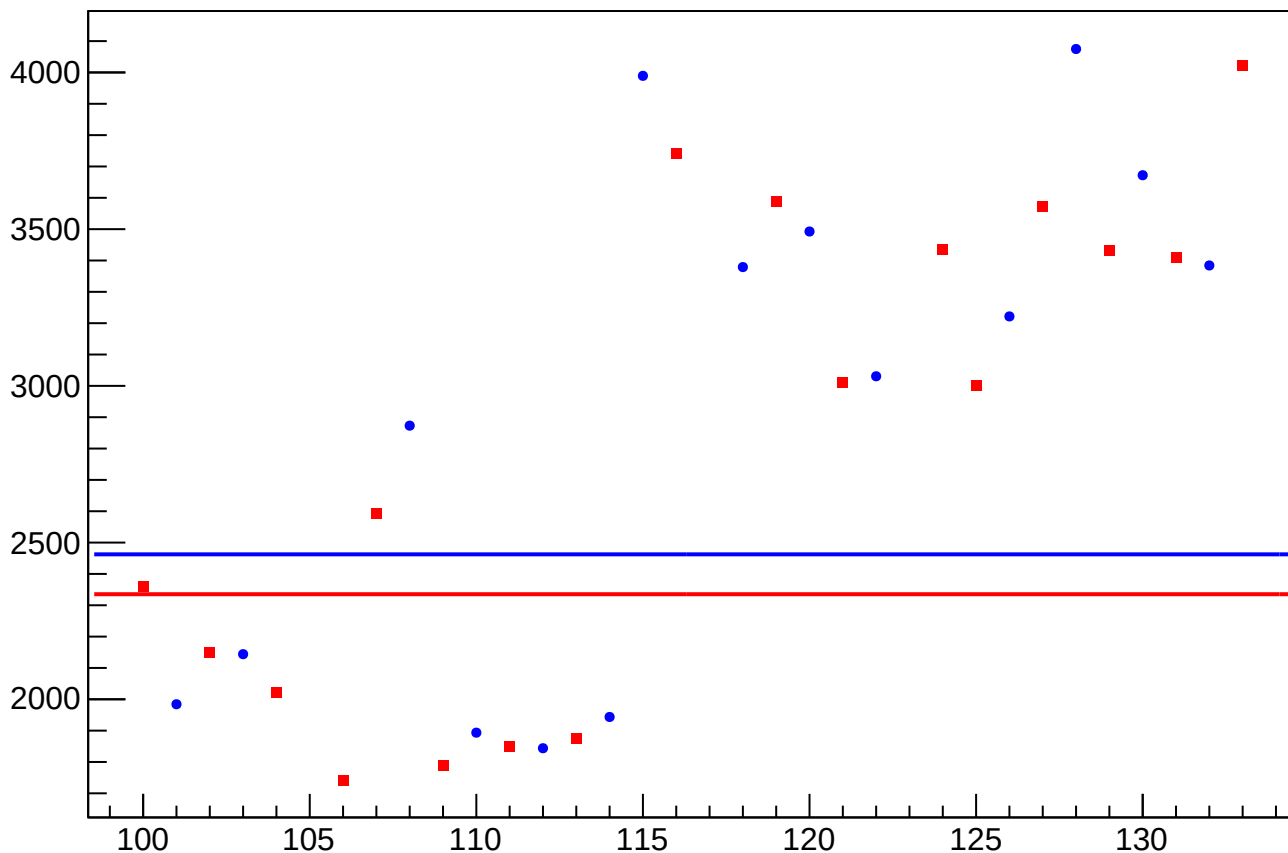
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -982.207 $\pm$ 702.805  $\chi^2/\text{NDF}$ : 31.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_eigen\_cor\_correction\_rms vs Slug



Right In: 2462.470+/-0.745  $\chi^2/\text{NDF}$ : 893208.0/13

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

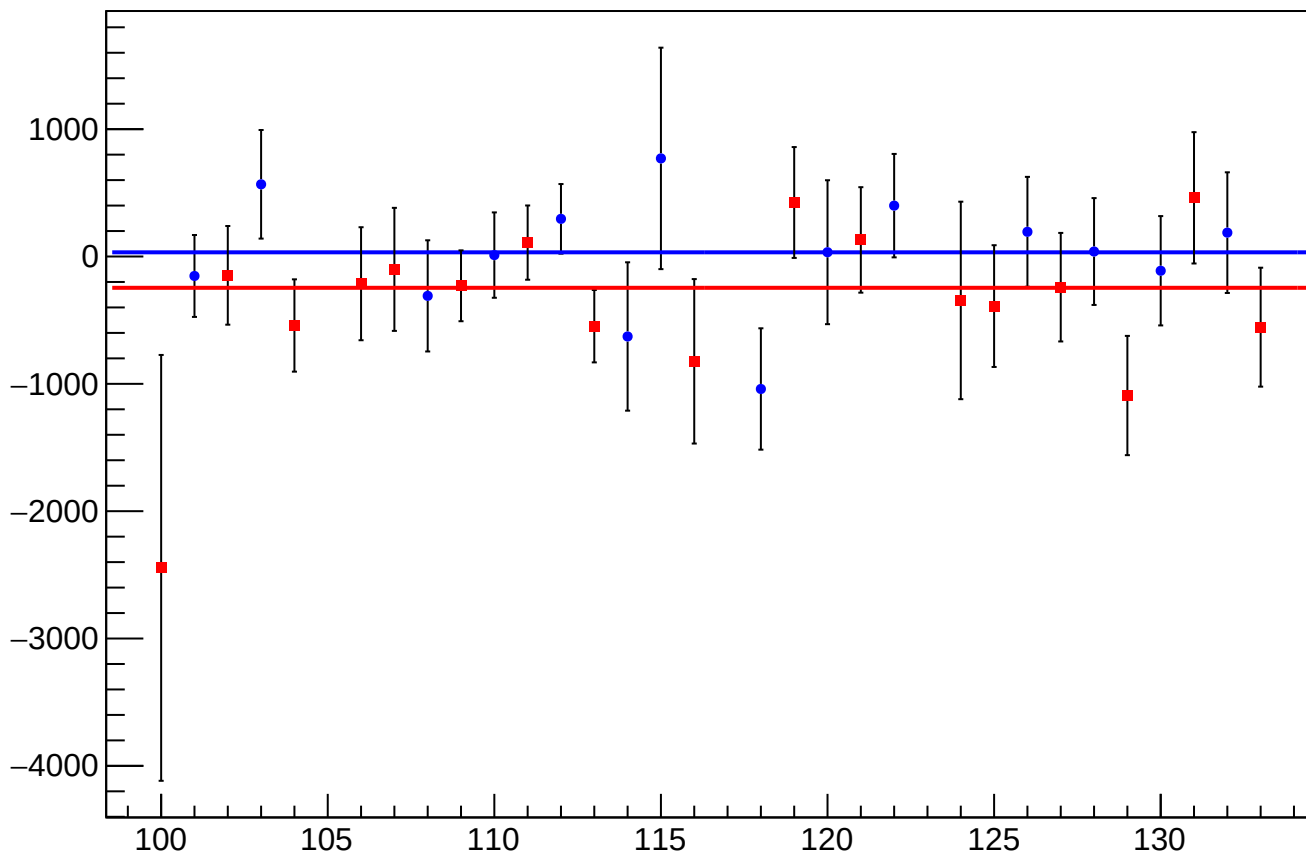
Right Out: 2335.253+/-0.667  $\chi^2/\text{NDF}$ : 1068942.2/16

All: 2391.834+/-0.497  $\chi^2/\text{NDF}$ : 1978333.3/30

- 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\_sam4\_mean vs Slug



Right In:  $32.851 \pm 110.779$   $\chi^2/\text{NDF}$ : 11.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-245.782 \pm 100.501$   $\chi^2/\text{NDF}$ : 14.8/16

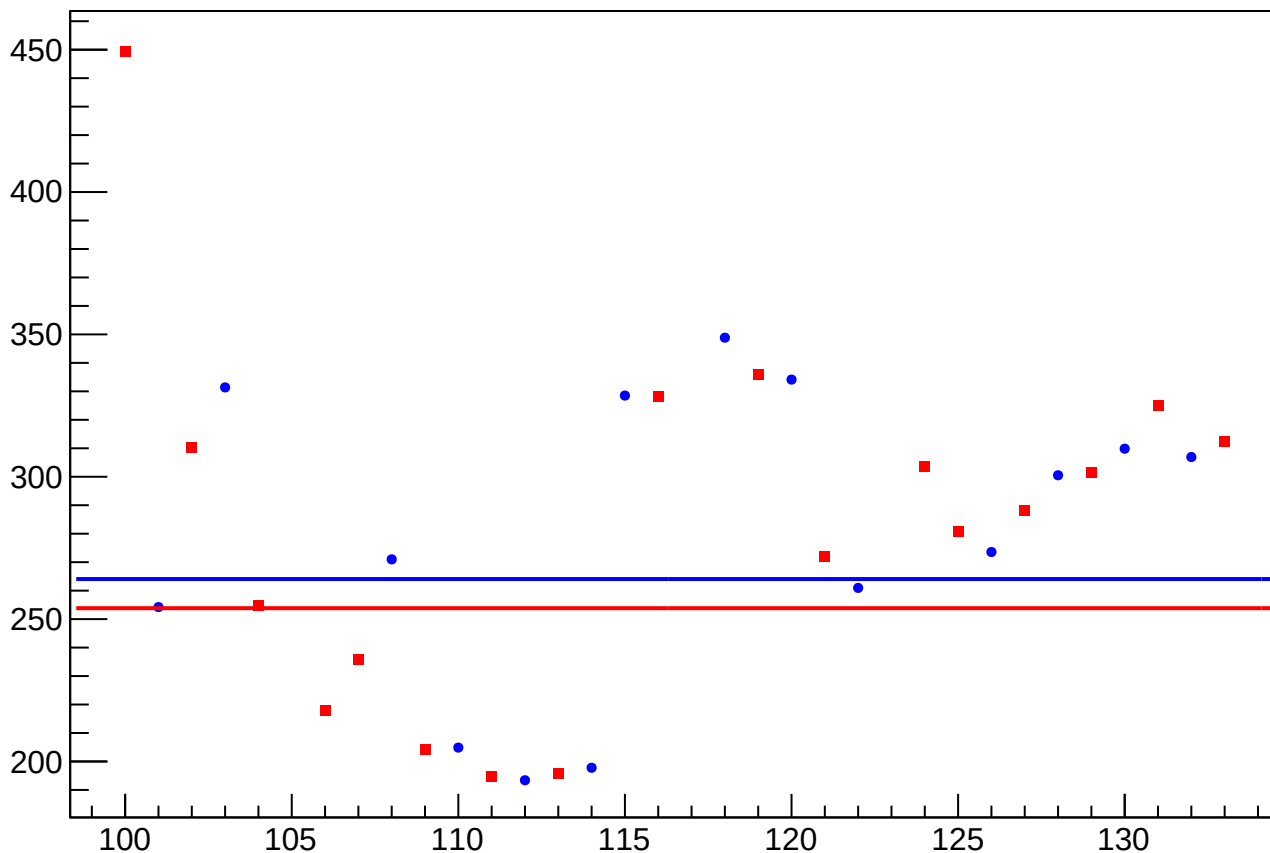
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-119.987 \pm 74.434$   $\chi^2/\text{NDF}$ : 30.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam4\_rms vs Slug



Right In: 264.075+/-0.078  $\chi^2/\text{NDF}$ : 434384.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 253.835+/-0.071  $\chi^2/\text{NDF}$ : 534500.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

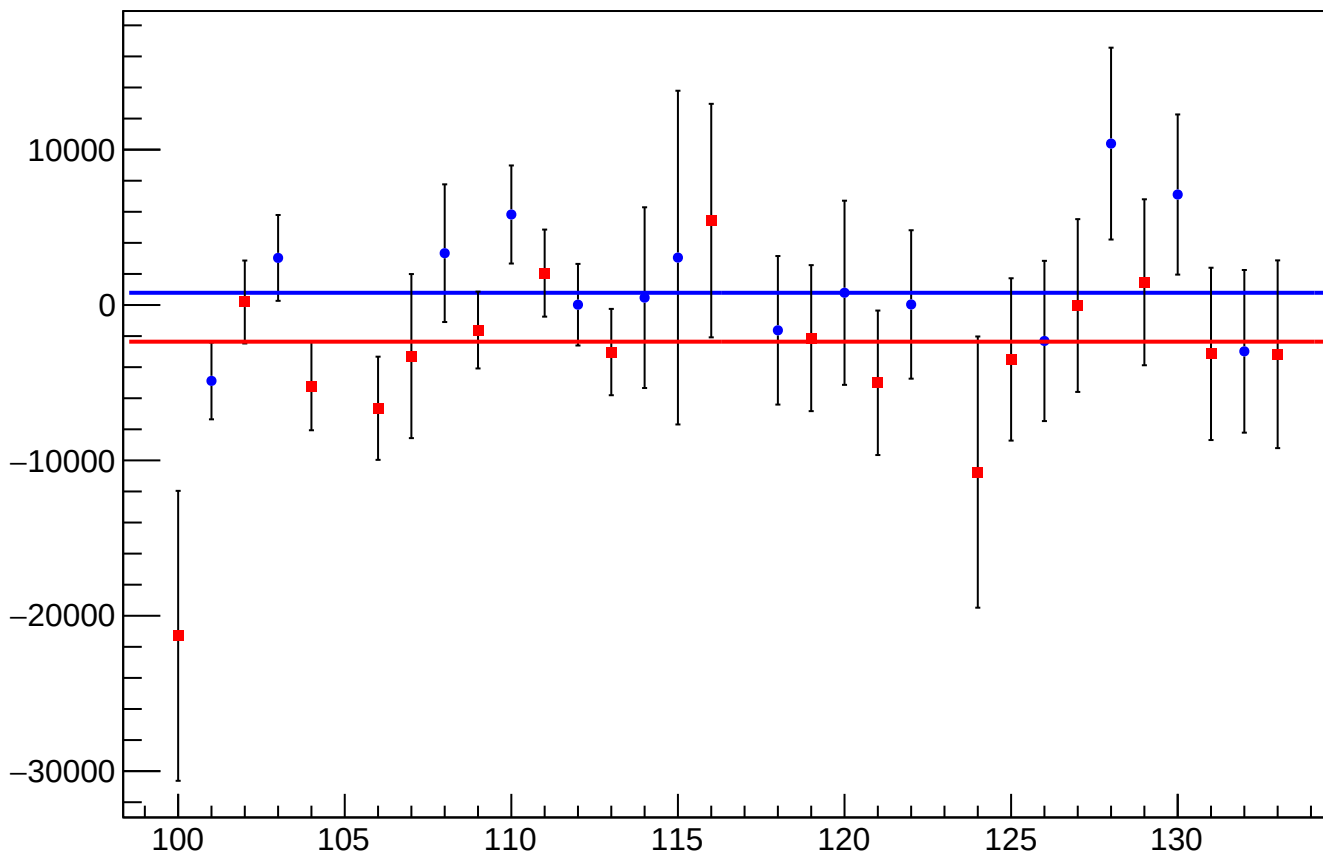
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 258.458+/-0.053  $\chi^2/\text{NDF}$ : 978258.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam4\_dit\_correction\_mean vs Slug



Right In: 787.616 $\pm$ 1064.236  $\chi^2$ /NDF: 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2359.568 $\pm$ 949.585  $\chi^2$ /NDF: 13.5/16

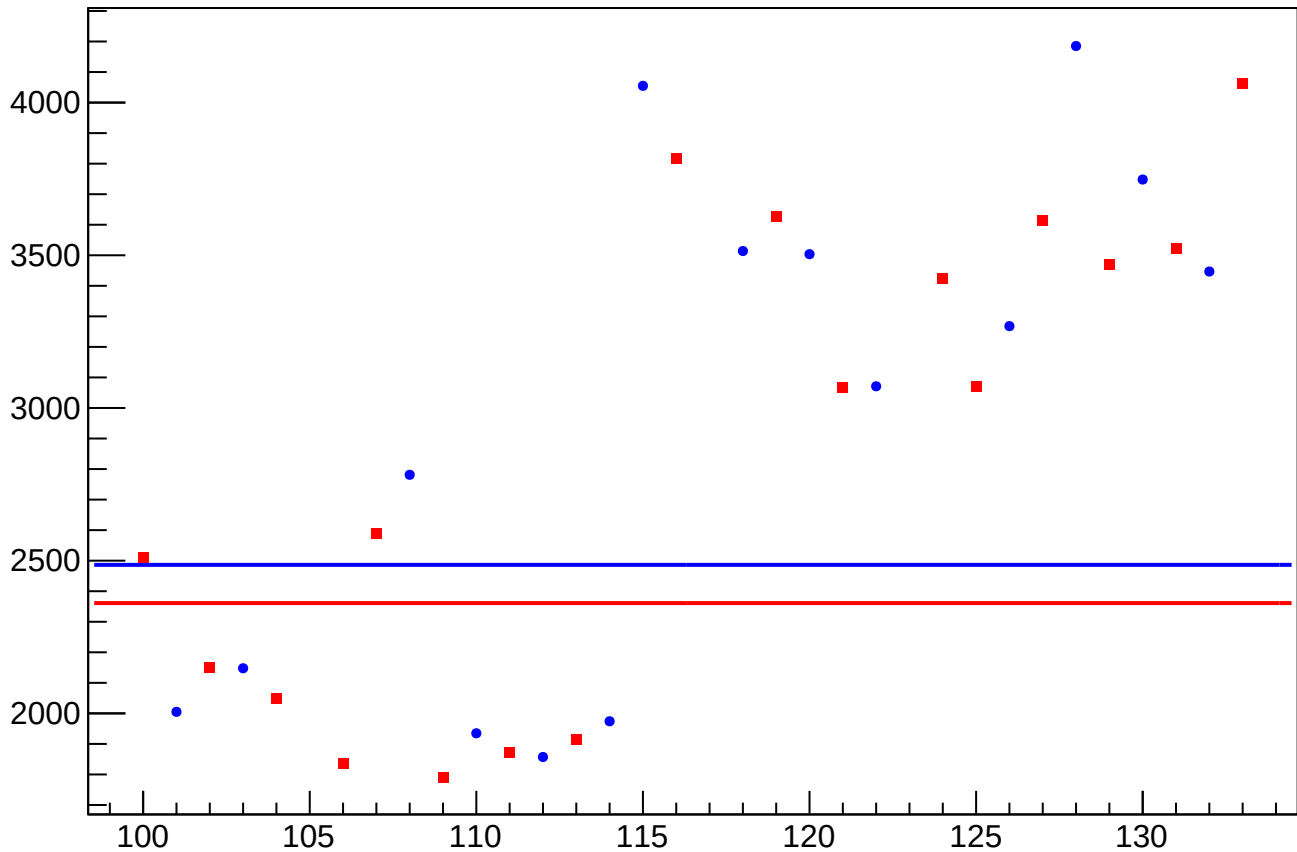
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -964.573 $\pm$ 708.538  $\chi^2$ /NDF: 32.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_dit\_correction\_rms vs Slug



Right In: 2486.326 $\pm$ 0.753  $\chi^2$ /NDF: 914444.2/13

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

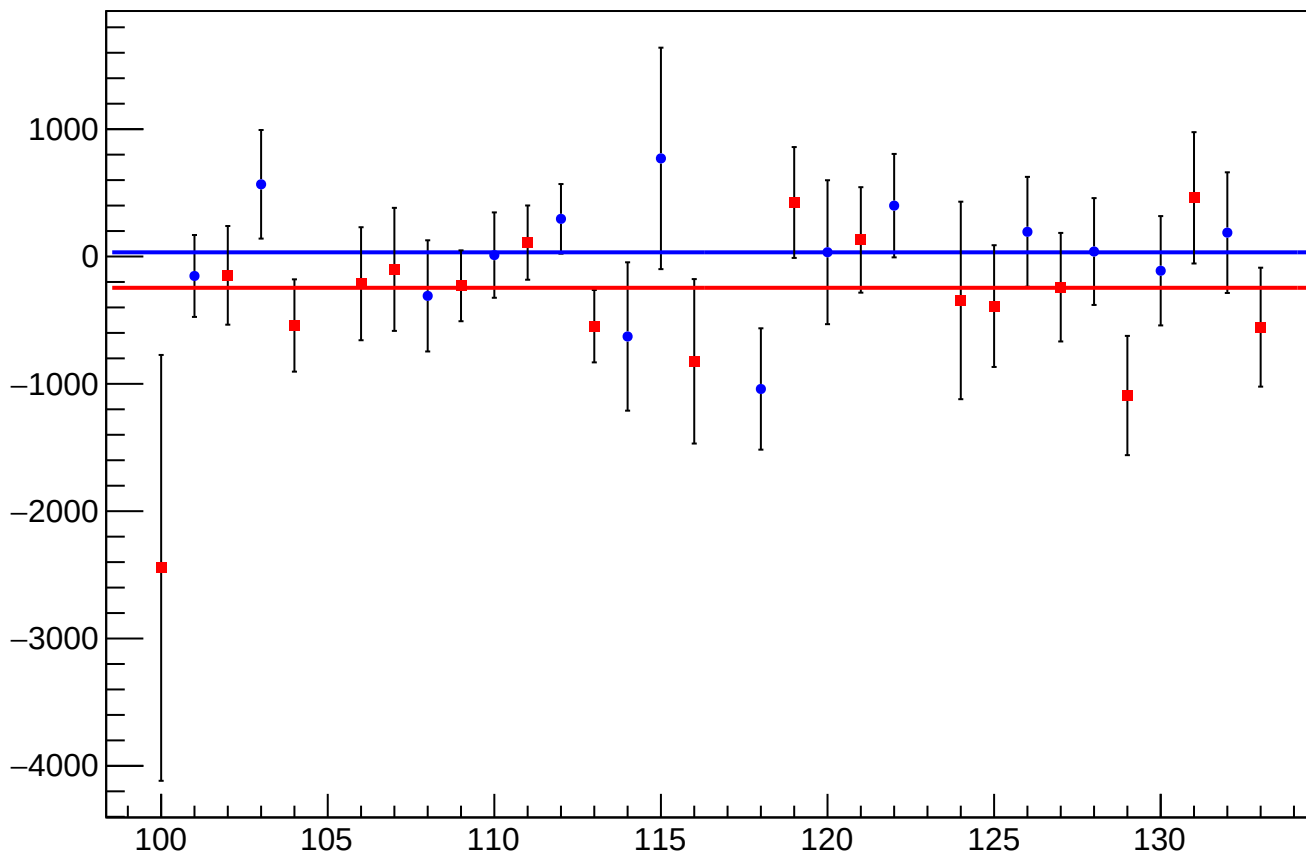
Right Out: 2361.181 $\pm$ 0.671  $\chi^2$ /NDF: 1076516.5/16

All: 2416.652 $\pm$ 0.501  $\chi^2$ /NDF: 2006357.8/30

- 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\_sam4\_mean vs Slug



Right In: 32.851+/-110.779  $\chi^2/\text{NDF}$ : 11.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -245.780+/-100.501  $\chi^2/\text{NDF}$ : 14.8/16

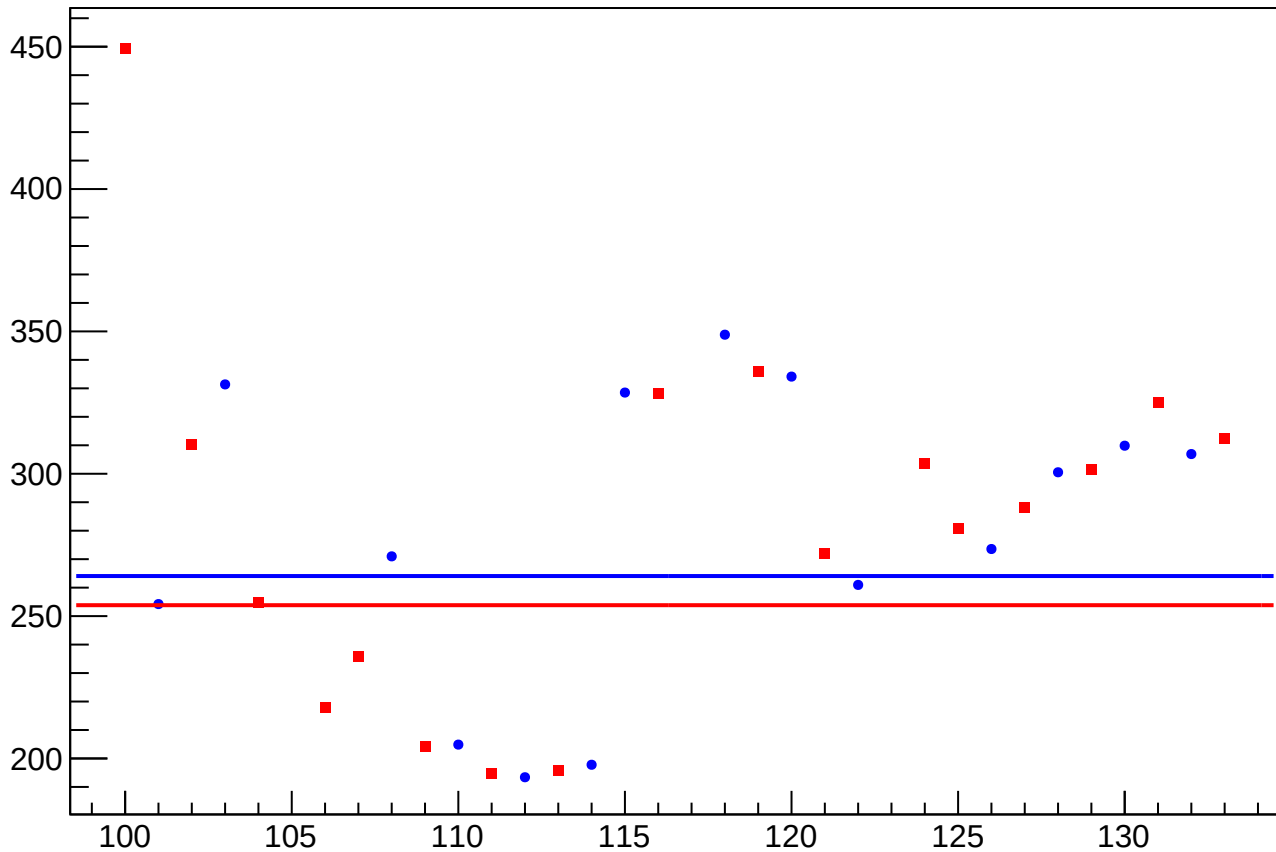
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -119.986+/-74.434  $\chi^2/\text{NDF}$ : 30.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam4\_rms vs Slug



Right In: 264.075+/-0.078  $\chi^2/\text{NDF}$ : 434388.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 253.835+/-0.071  $\chi^2/\text{NDF}$ : 534504.2/16

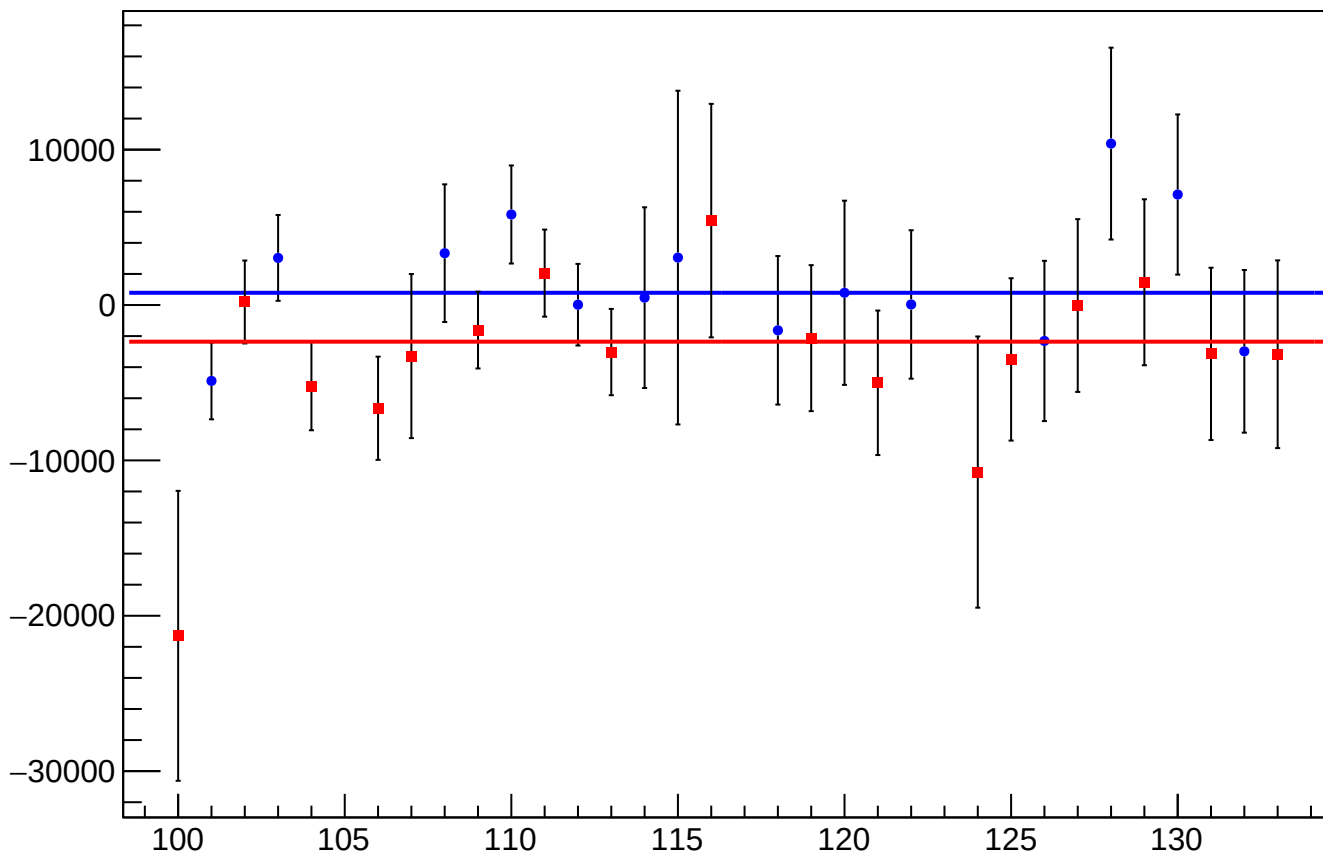
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 258.458+/-0.053  $\chi^2/\text{NDF}$ : 978266.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_eigen\_dit\_correction\_mean vs Slug



Right In: 787.616 $\pm$ 1064.236  $\chi^2$ /NDF: 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2359.565 $\pm$ 949.584  $\chi^2$ /NDF: 13.5/16

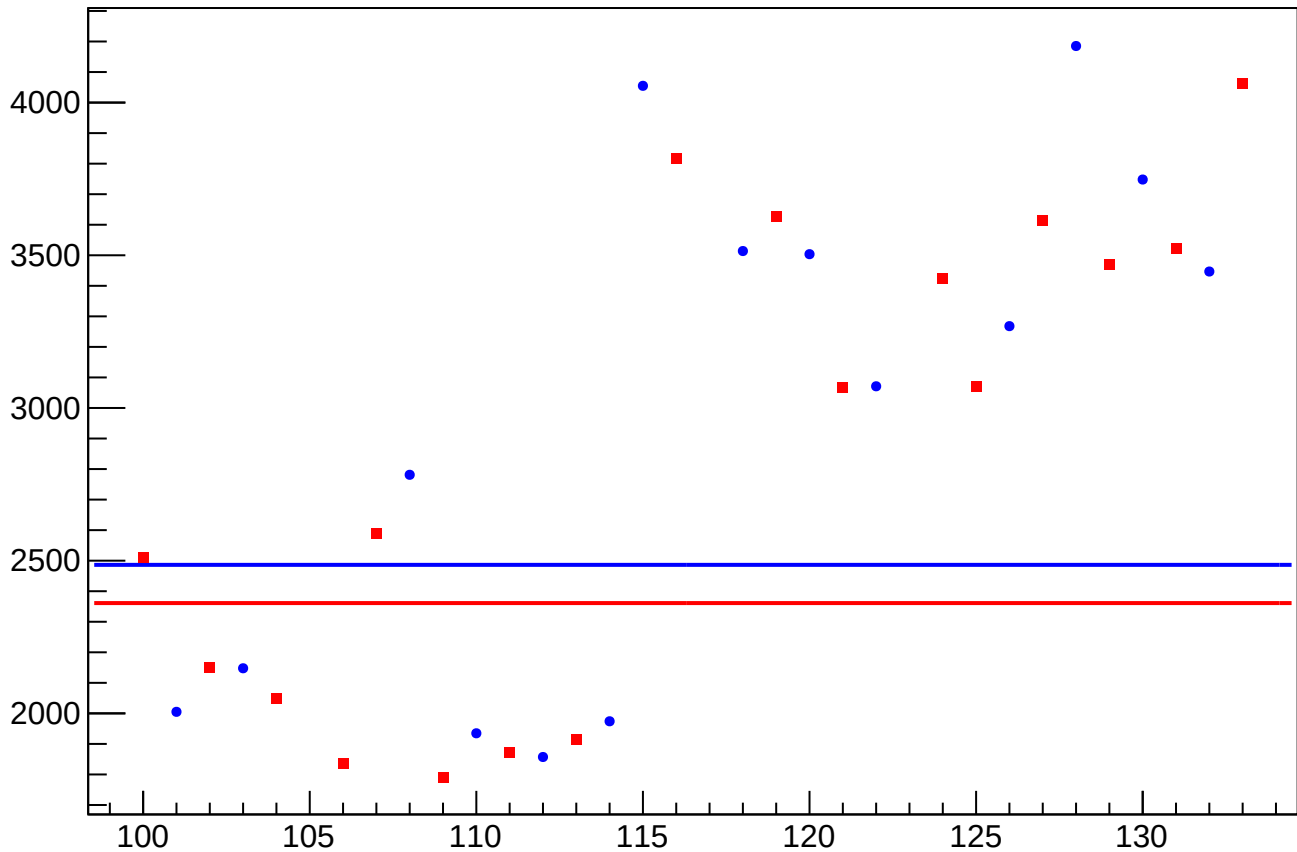
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -964.572 $\pm$ 708.538  $\chi^2$ /NDF: 32.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_eigen\_dit\_correction\_rms vs Slug



Right In: 2486.325+/-0.753  $\chi^2/\text{NDF}$ : 914447.3/13

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

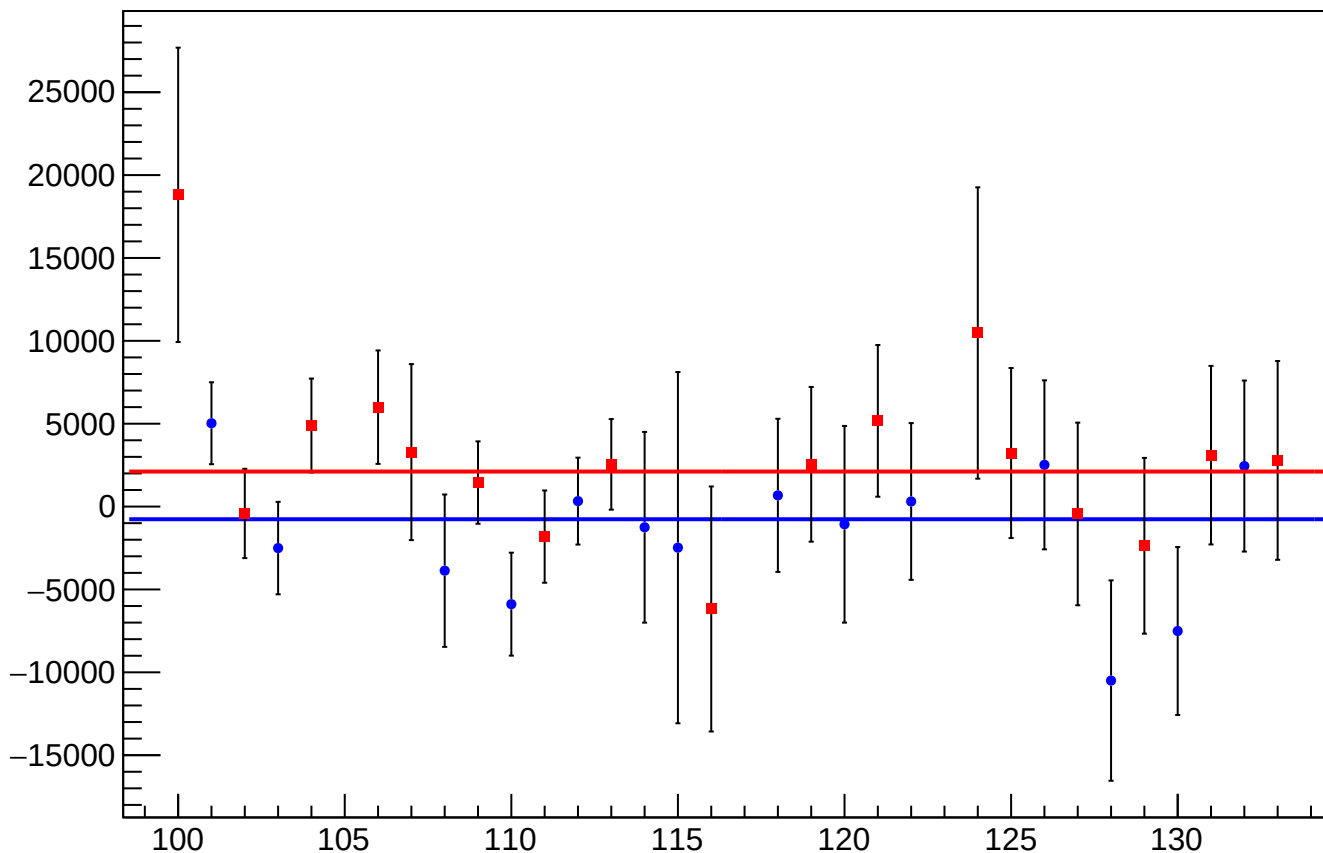
Right Out: 2361.180+/-0.671  $\chi^2/\text{NDF}$ : 1076519.0/16

All: 2416.651+/-0.501  $\chi^2/\text{NDF}$ : 2006363.4/30

- 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\_sam4\_mean vs Slug



Right In: -764.045+/-1059.866  $\chi^2/\text{NDF}$ : 14.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2113.636+/-947.183  $\chi^2/\text{NDF}$ : 12.4/16

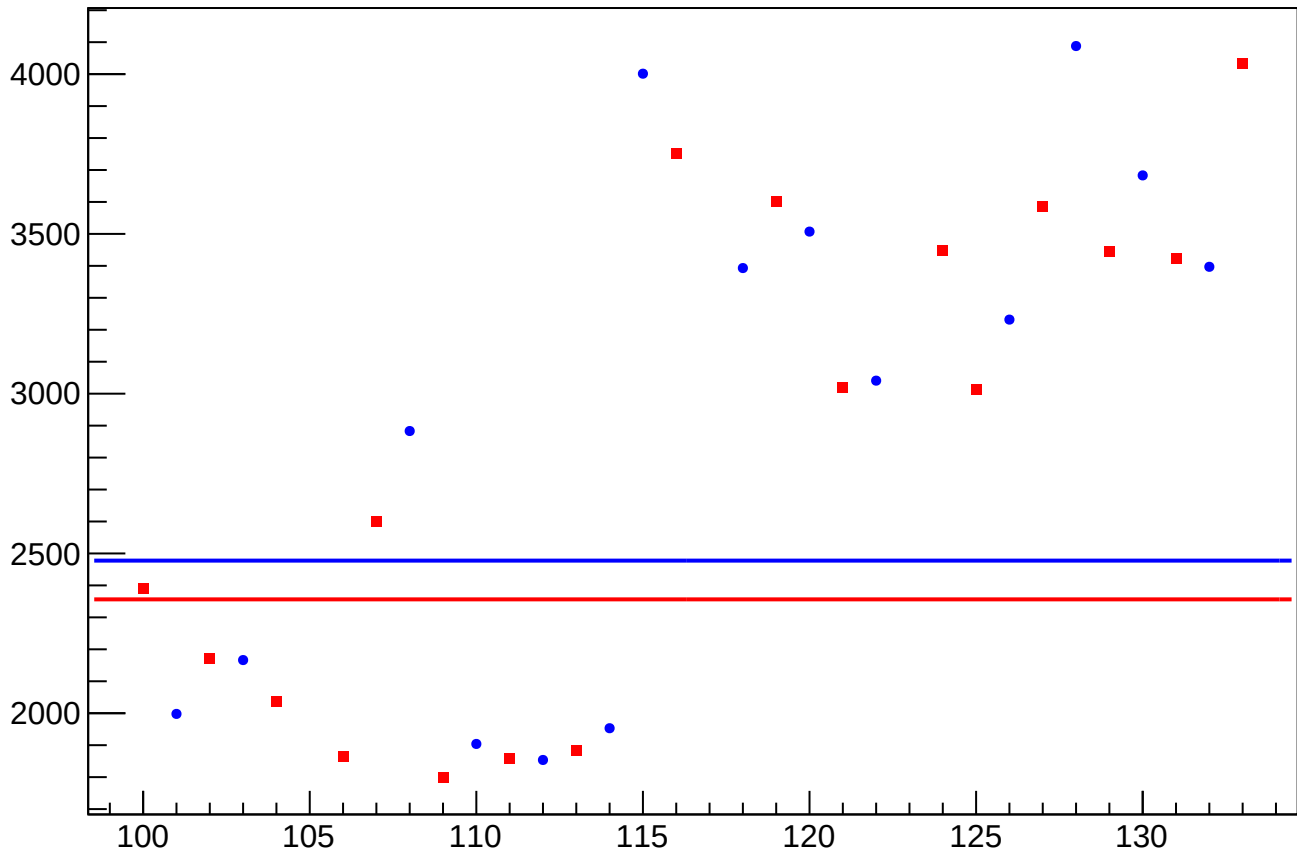
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 835.851+/-706.250  $\chi^2/\text{NDF}$ : 31.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_rms vs Slug



Right In: 2477.587+/-0.749  $\chi^2/\text{NDF}$ : 884883.4/13

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: 2356.312+/-0.670  $\chi^2/\text{NDF}$ : 1042234.2/16

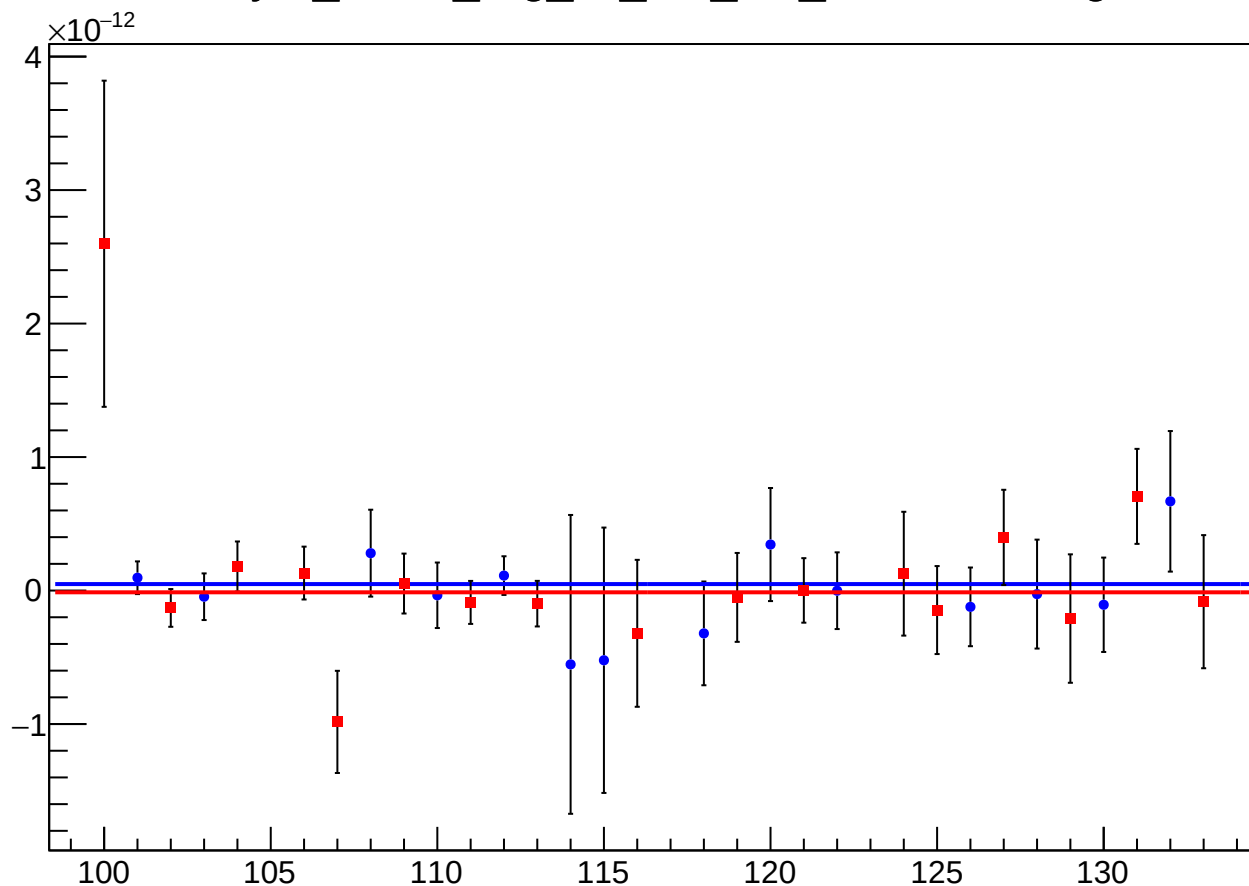
All: 2410.162+/-0.499  $\chi^2/\text{NDF}$ : 1941676.2/30

- 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\_sam4\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 20.0/16

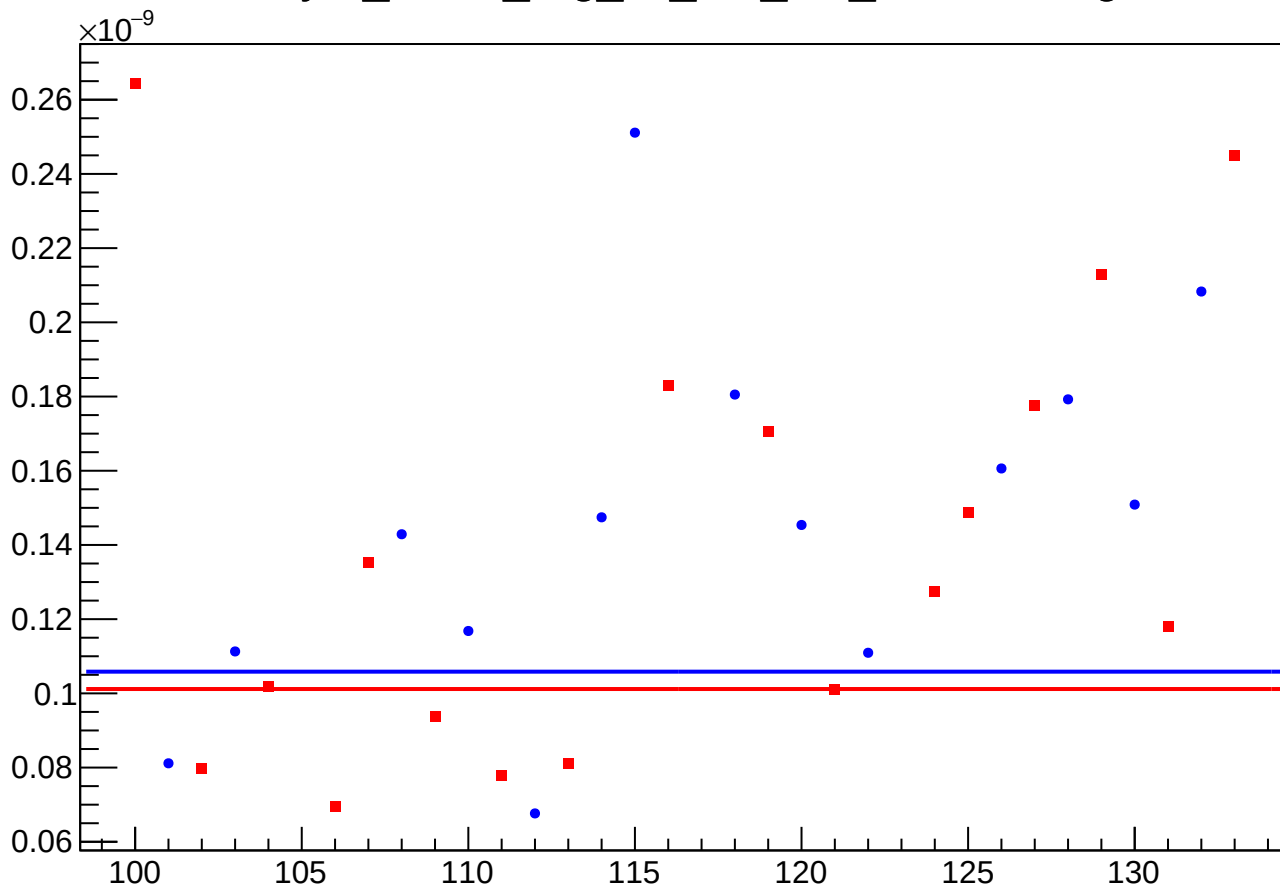
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 25.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 631711.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 769289.3/16

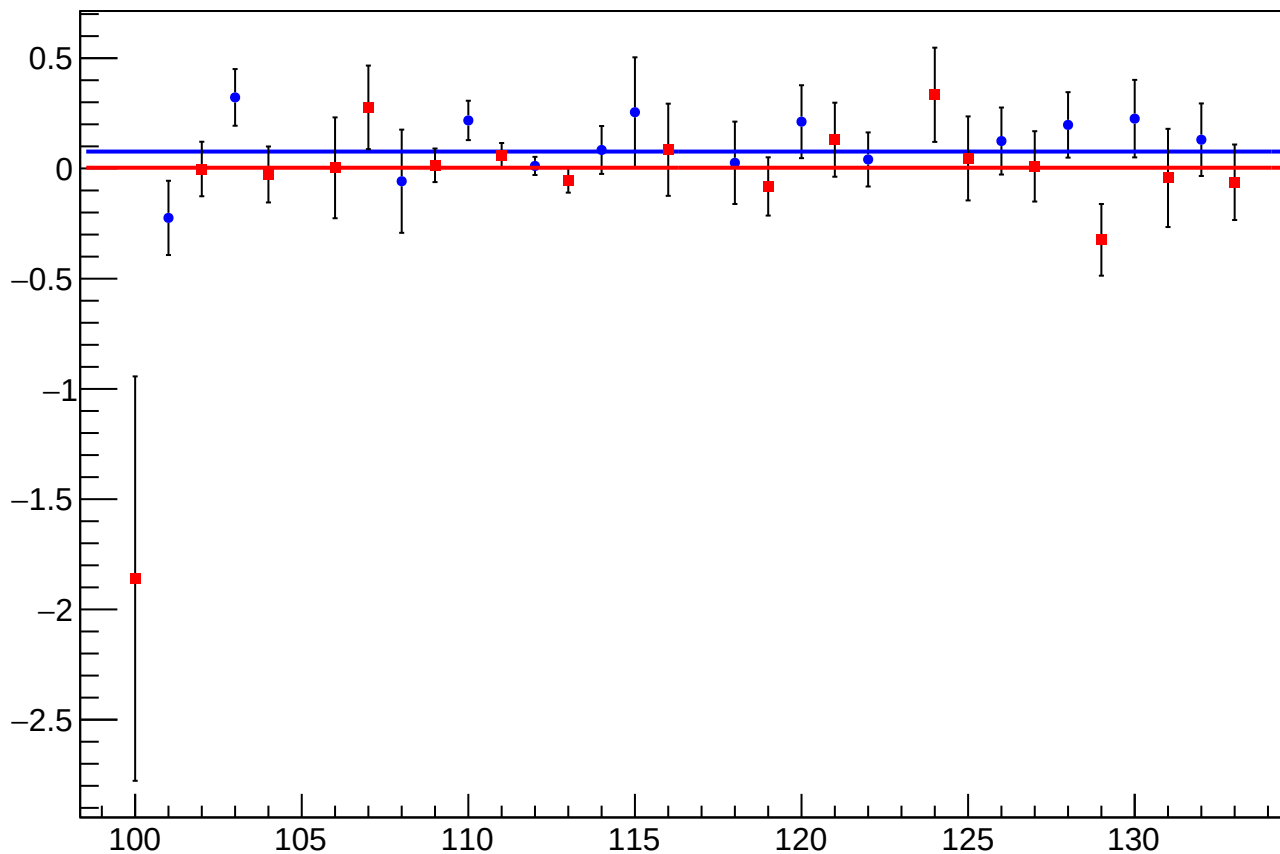
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1406431.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.076 $\pm$ 0.029  $\chi^2/\text{NDF}$ : 15.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003 $\pm$ 0.028  $\chi^2/\text{NDF}$ : 16.2/16

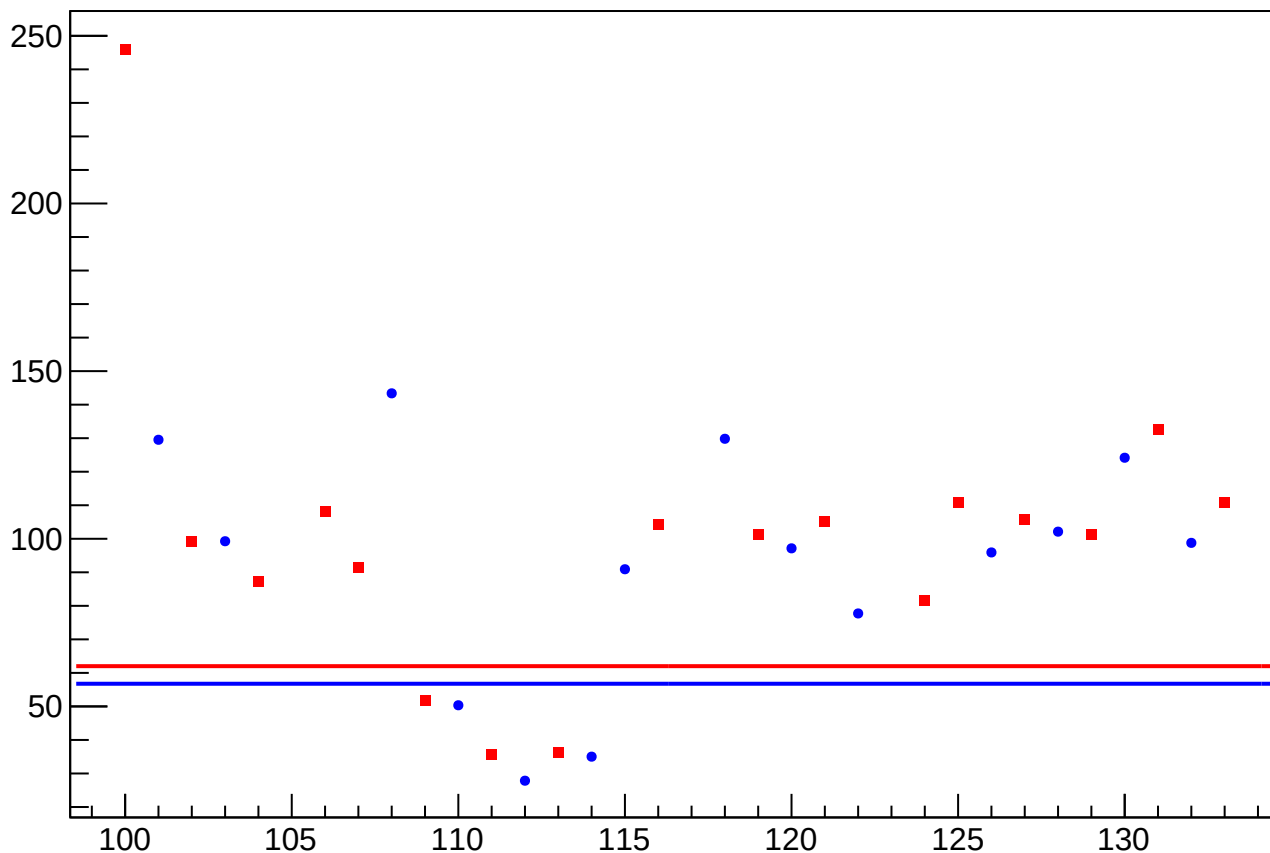
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.039 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 34.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 56.763+/-0.020  $\chi^2/\text{NDF}$ : 3210039.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 62.009+/-0.020  $\chi^2/\text{NDF}$ : 2562935.7/16

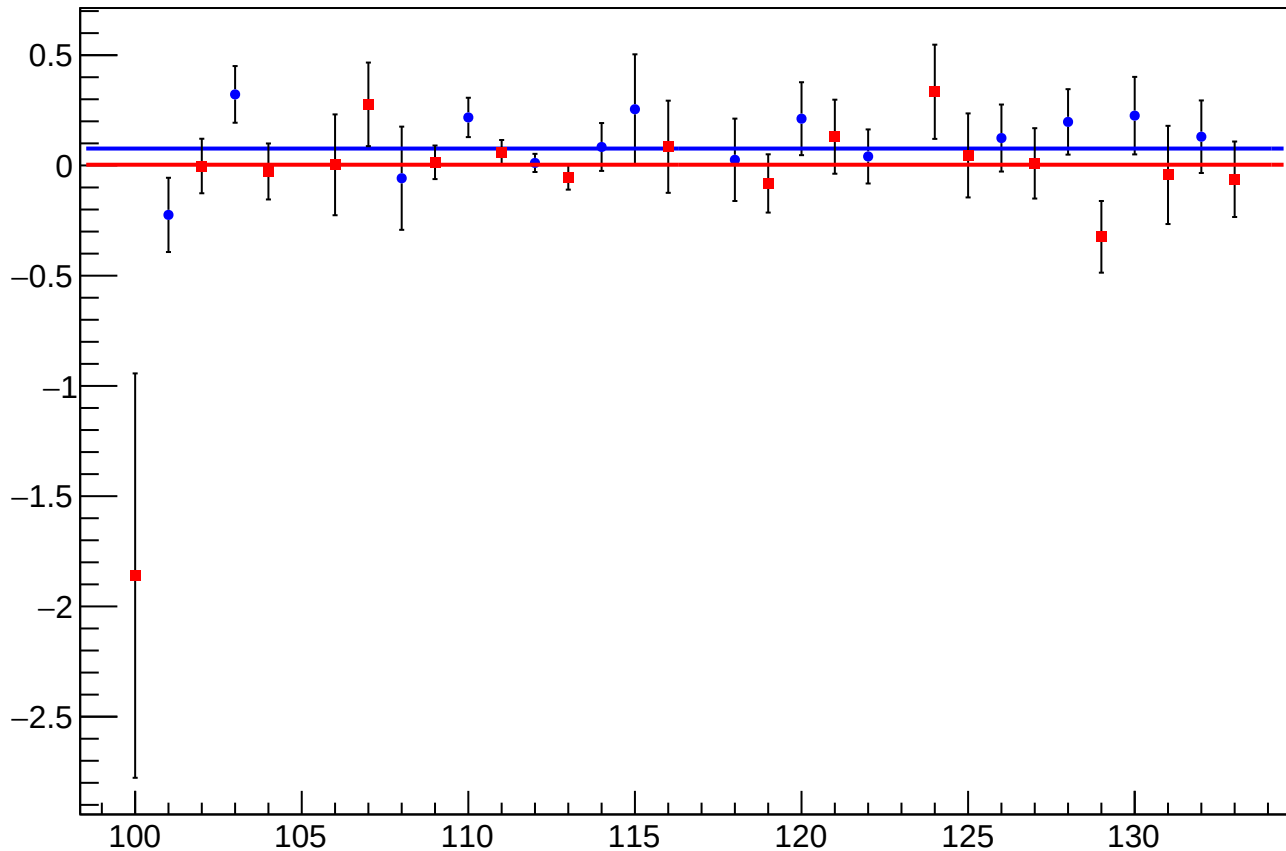
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 59.464+/-0.014  $\chi^2/\text{NDF}$ : 5807561.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.076 $\pm$ 0.029  $\chi^2$ /NDF: 15.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.028  $\chi^2$ /NDF: 16.2/16

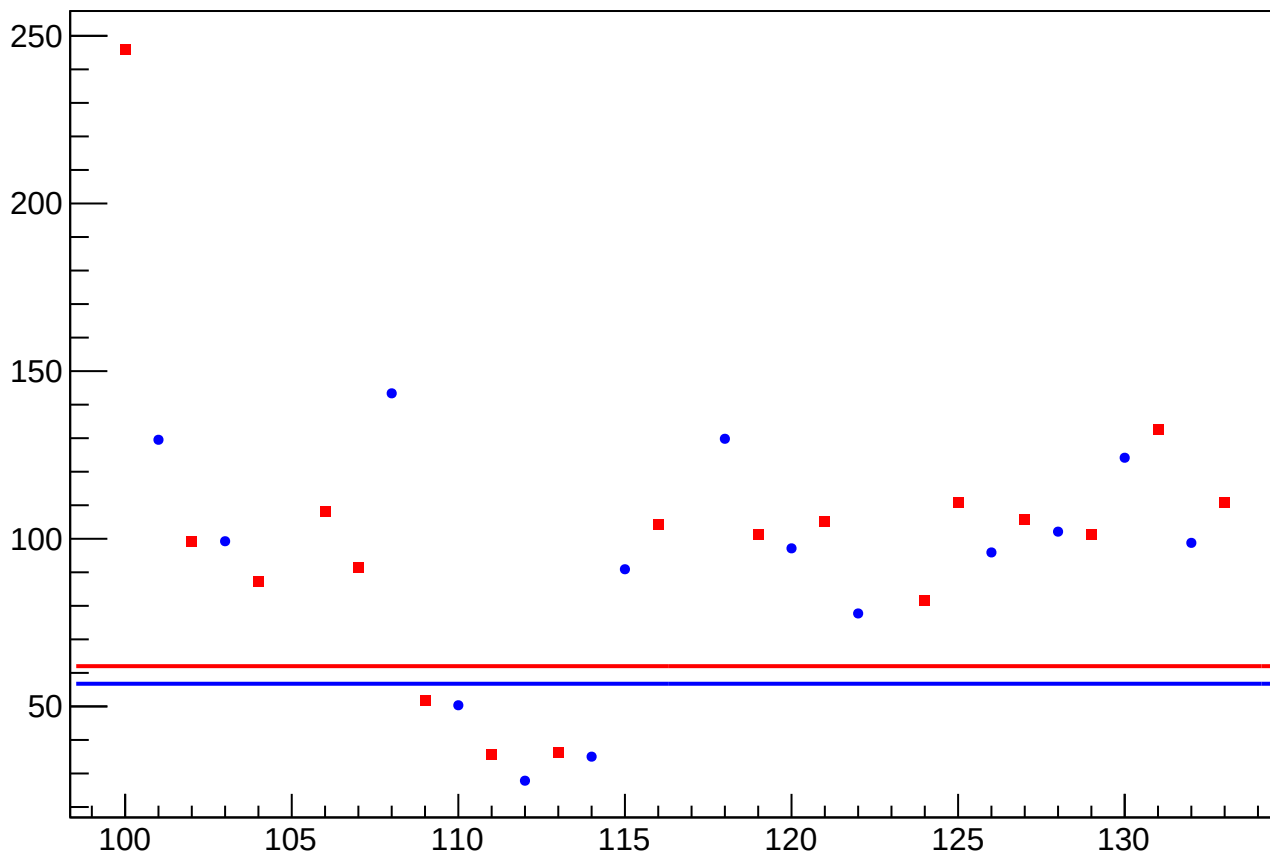
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.039 $\pm$ 0.020  $\chi^2$ /NDF: 34.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 56.763+/-0.020  $\chi^2/\text{NDF}$ : 3210039.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 62.009+/-0.020  $\chi^2/\text{NDF}$ : 2562935.7/16

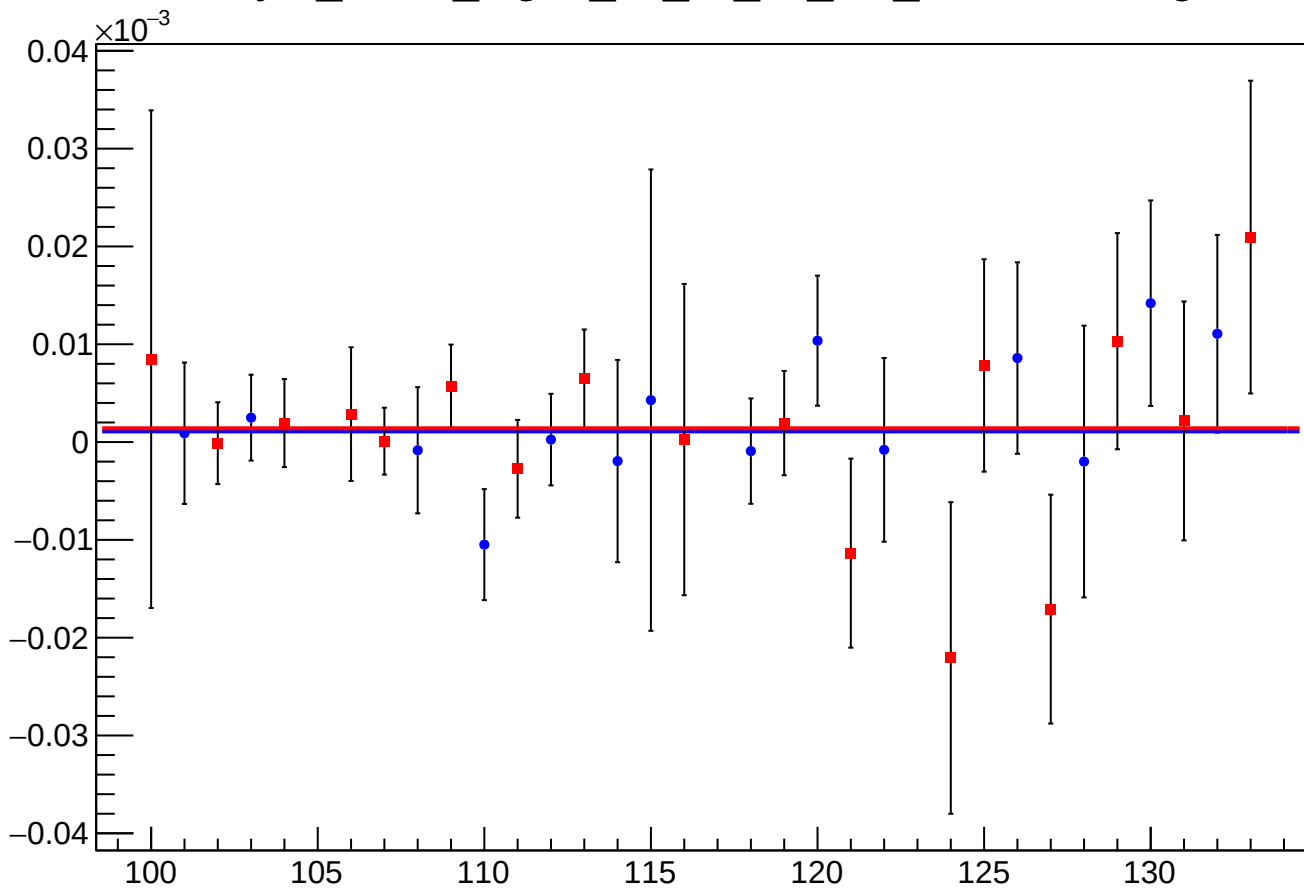
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 59.464+/-0.014  $\chi^2/\text{NDF}$ : 5807561.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.1/16

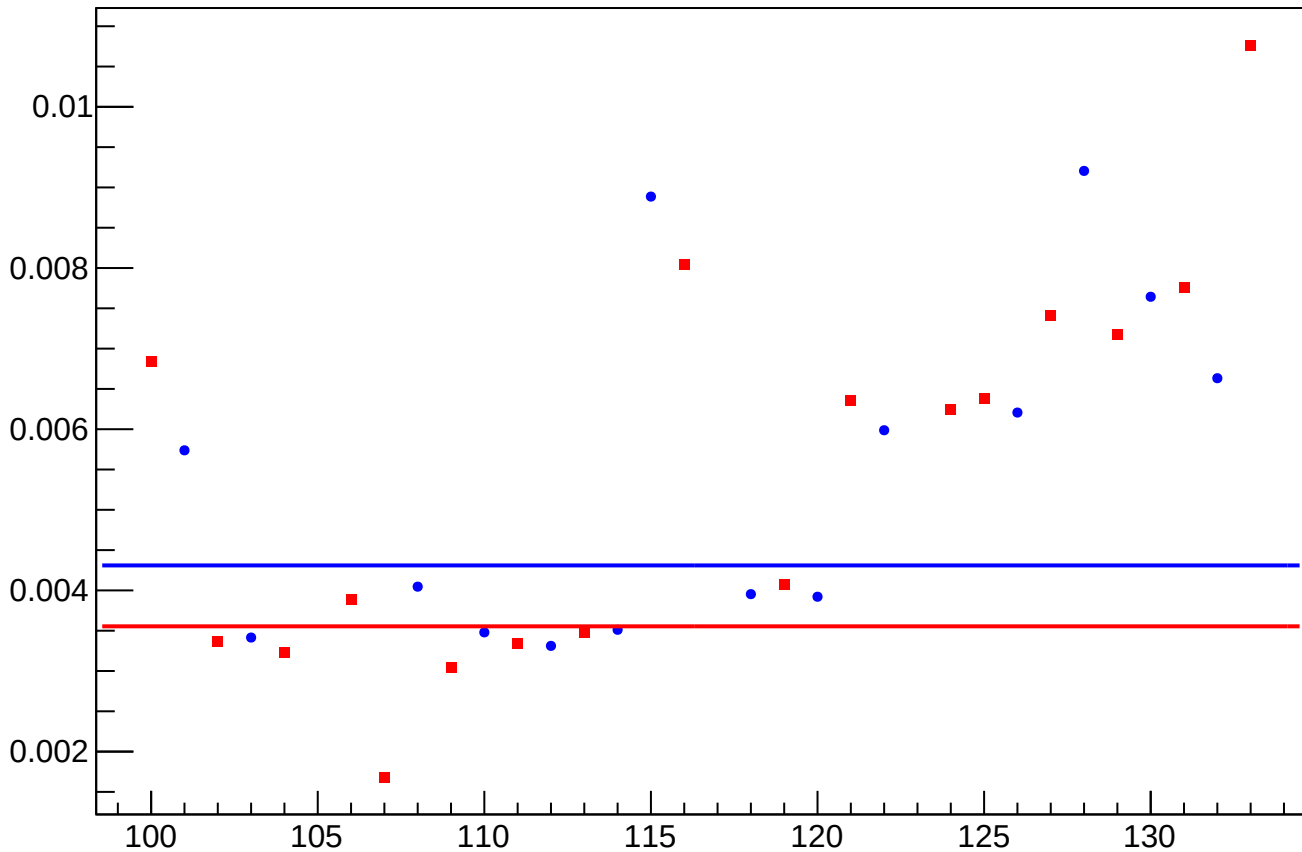
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 21.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 1095316.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 2302936.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

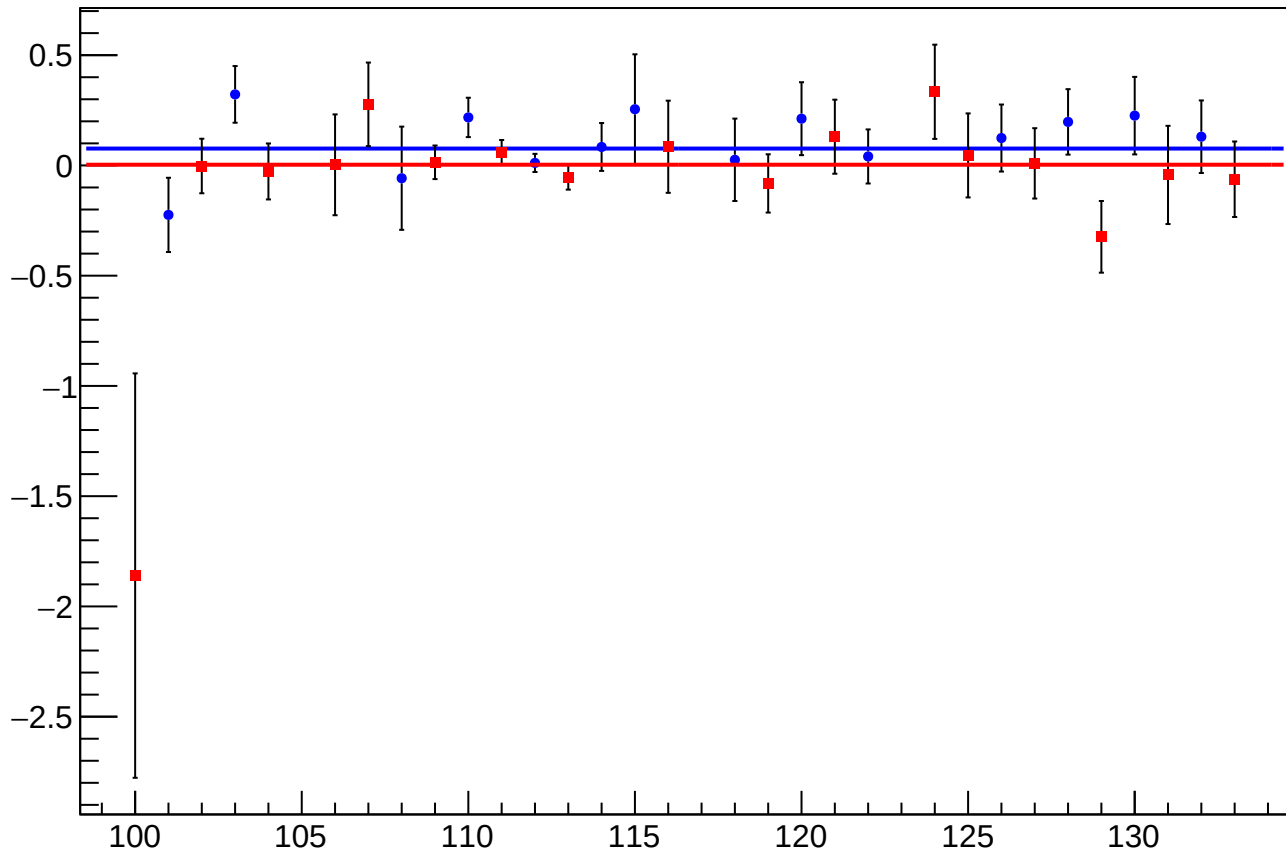
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 3595825.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam4\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.076 $\pm$ 0.029  $\chi^2$ /NDF: 15.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.028  $\chi^2$ /NDF: 16.2/16

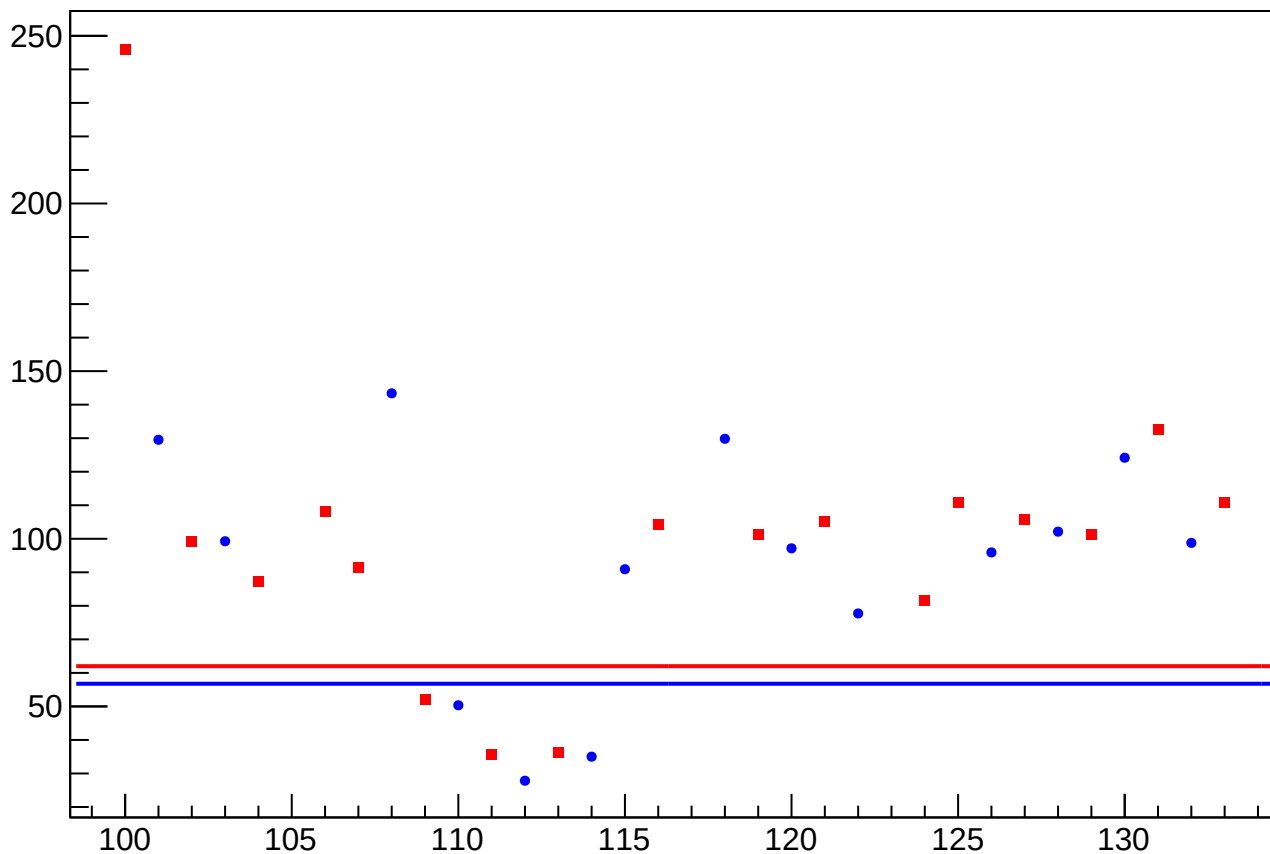
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.039 $\pm$ 0.020  $\chi^2$ /NDF: 34.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 56.761+/-0.020  $\chi^2/\text{NDF}$ : 3210244.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 62.007+/-0.020  $\chi^2/\text{NDF}$ : 2563181.6/16

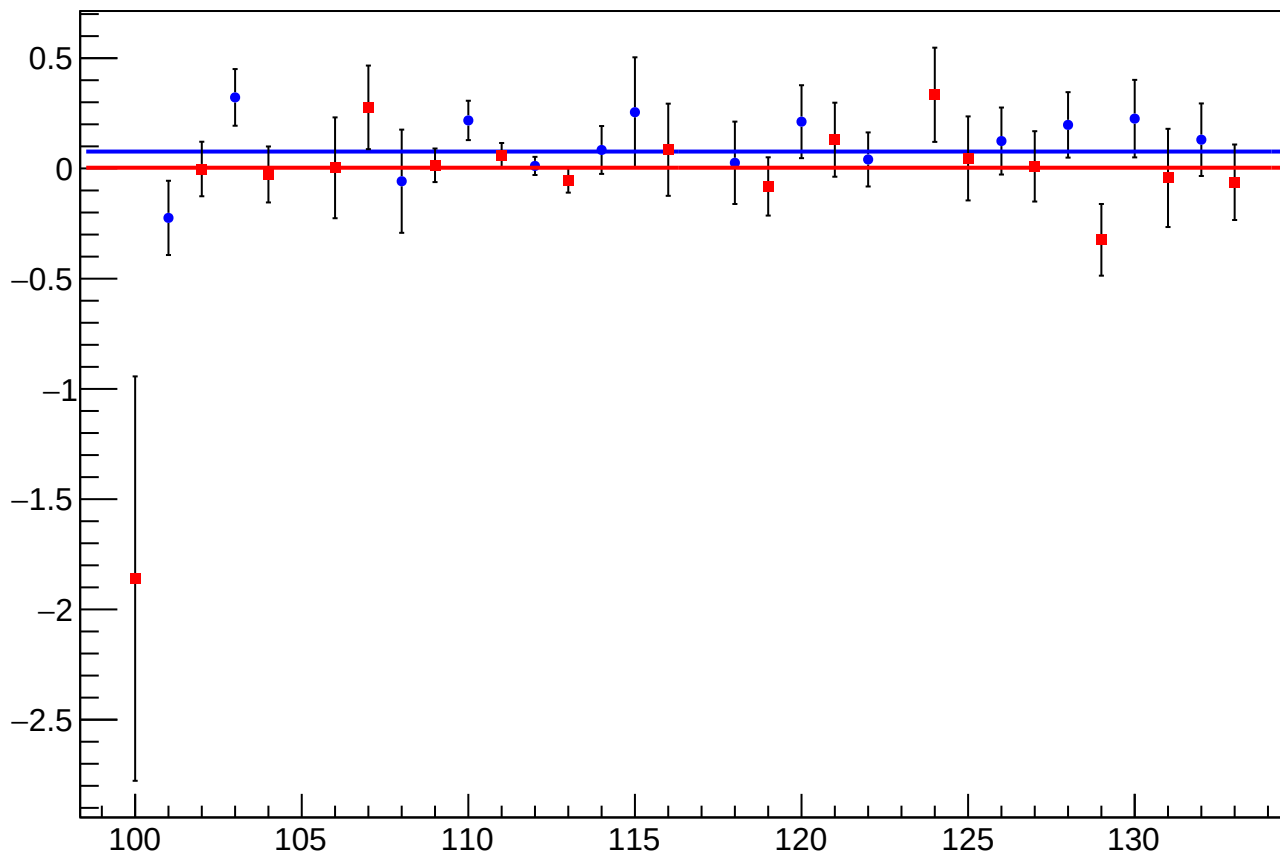
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 59.461+/-0.014  $\chi^2/\text{NDF}$ : 5808018.6/30

- 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: 0.076 $\pm$ 0.029  $\chi^2$ /NDF: 15.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.028  $\chi^2$ /NDF: 16.2/16

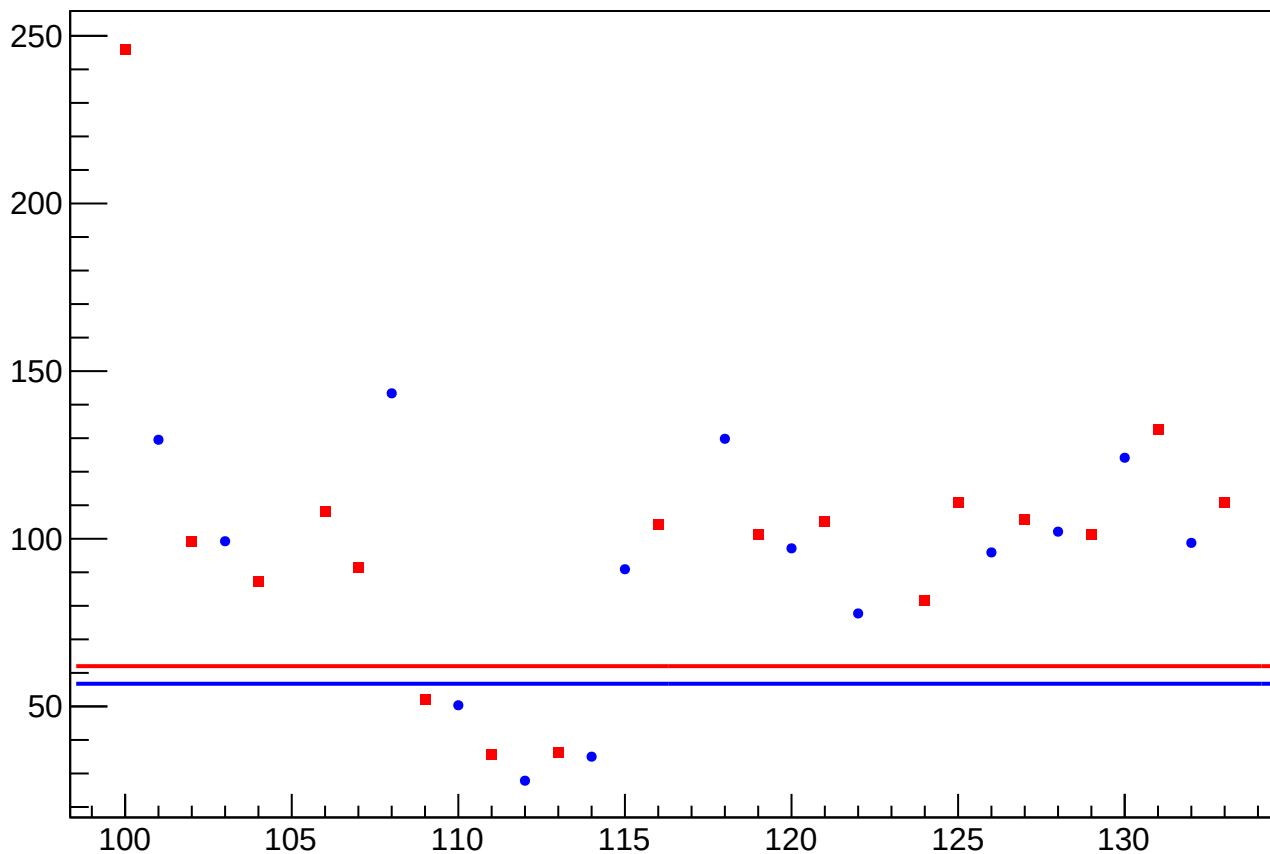
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.039 $\pm$ 0.020  $\chi^2$ /NDF: 34.8/30

- 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: 56.761+/-0.020  $\chi^2/\text{NDF}$ : 3210244.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 62.007+/-0.020  $\chi^2/\text{NDF}$ : 2563181.6/16

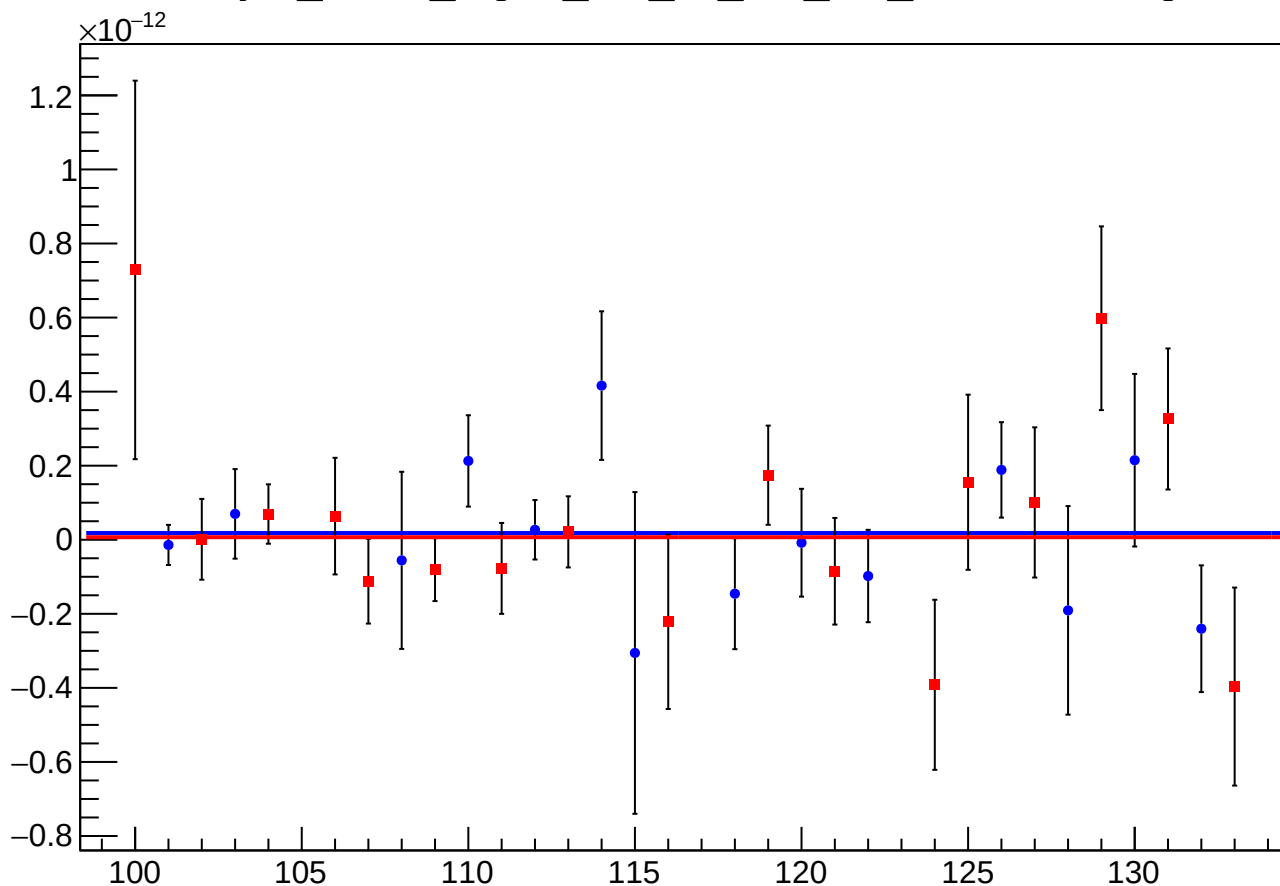
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 59.461+/-0.014  $\chi^2/\text{NDF}$ : 5808018.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 22.7/16

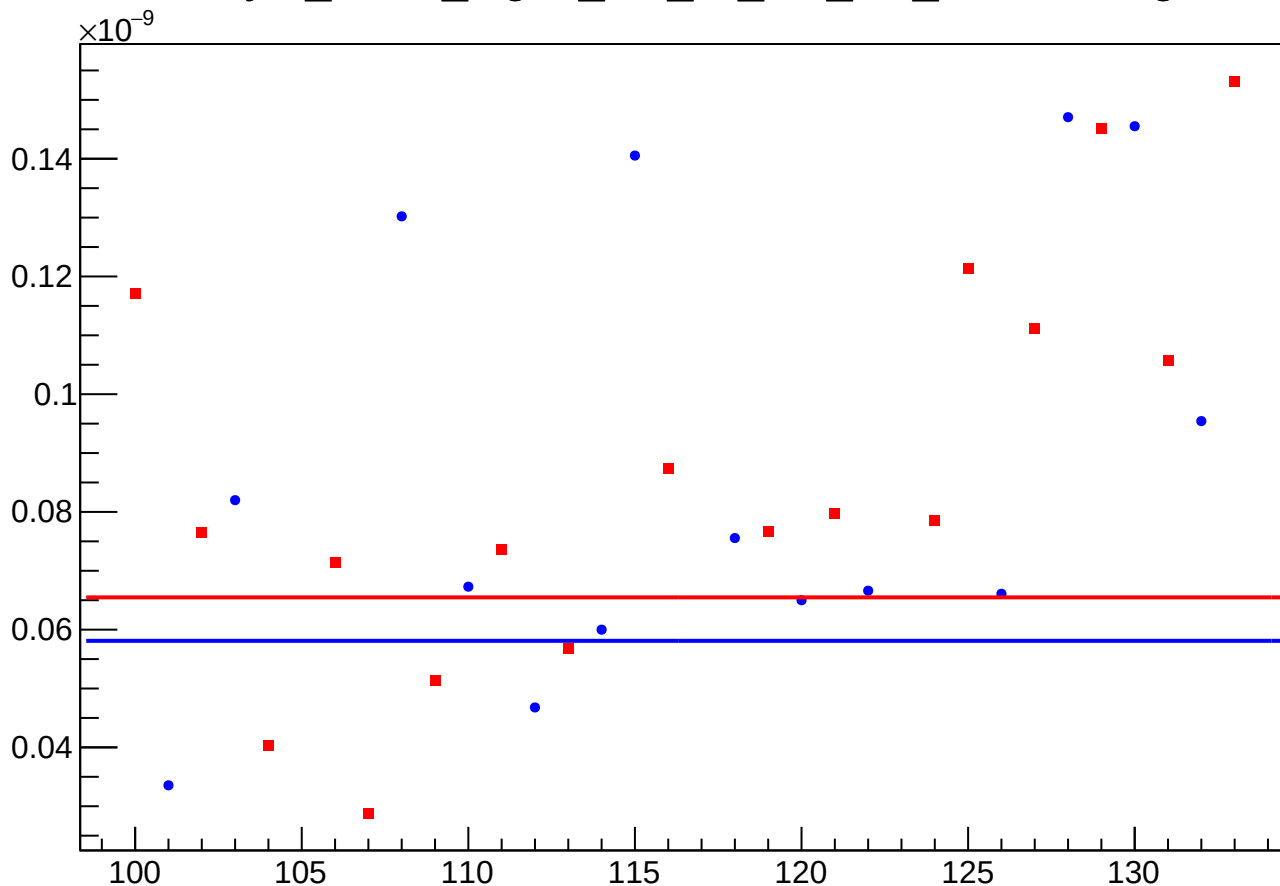
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 37.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1418444.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1306751.7/16

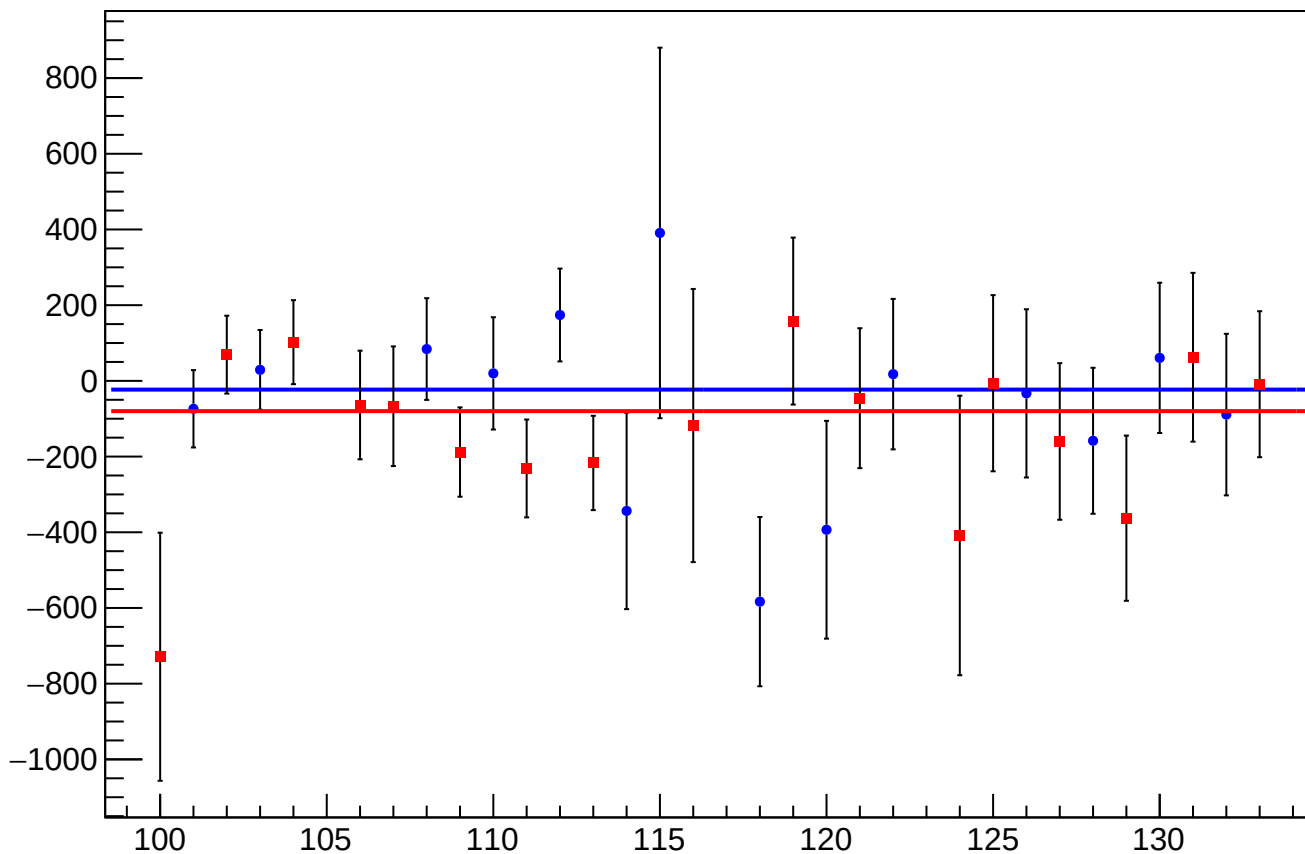
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2776221.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_mean vs Slug



Right In: -23.066+/-43.674  $\chi^2/\text{NDF}$ : 14.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -79.929+/-39.396  $\chi^2/\text{NDF}$ : 16.6/16

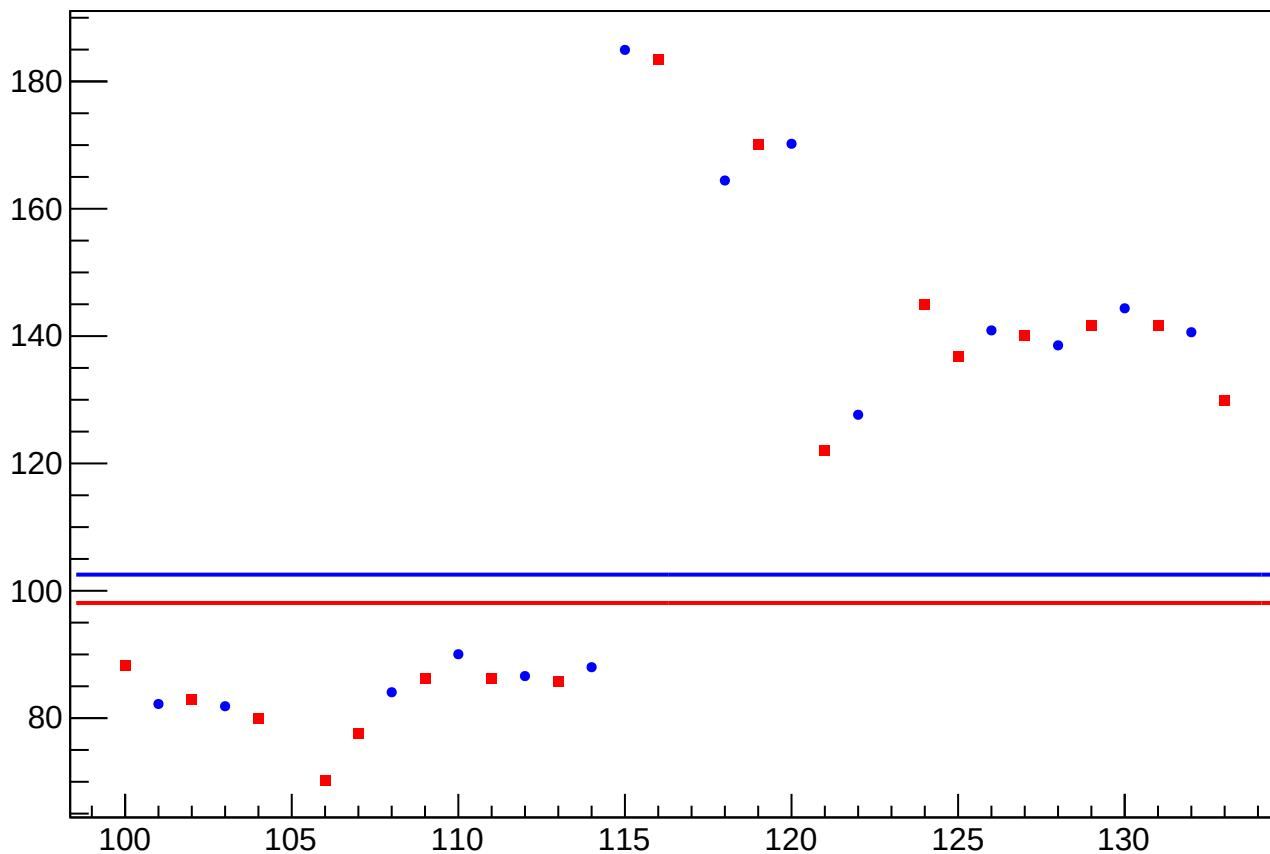
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -54.418+/-29.253  $\chi^2/\text{NDF}$ : 32.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_rms vs Slug



Right In: 102.537+/-0.031  $\chi^2/\text{NDF}$ : 882656.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 98.085+/-0.028  $\chi^2/\text{NDF}$ : 1003870.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

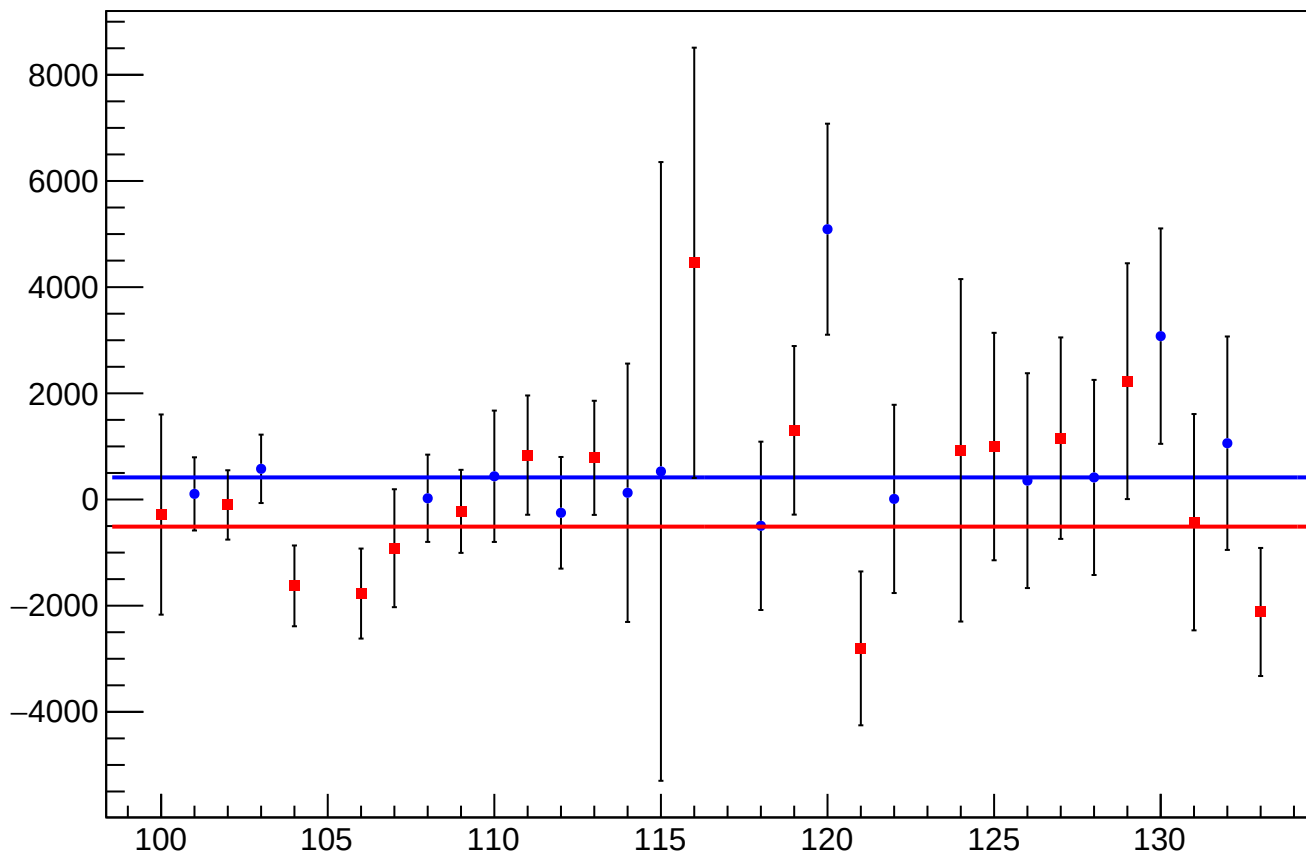
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 100.082+/-0.021  $\chi^2/\text{NDF}$ : 1897986.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam5\_reg\_correction\_mean vs Slug



Right In: 416.406+/-320.261  $\chi^2/\text{NDF}$ : 8.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -510.819+/-282.819  $\chi^2/\text{NDF}$ : 18.0/16

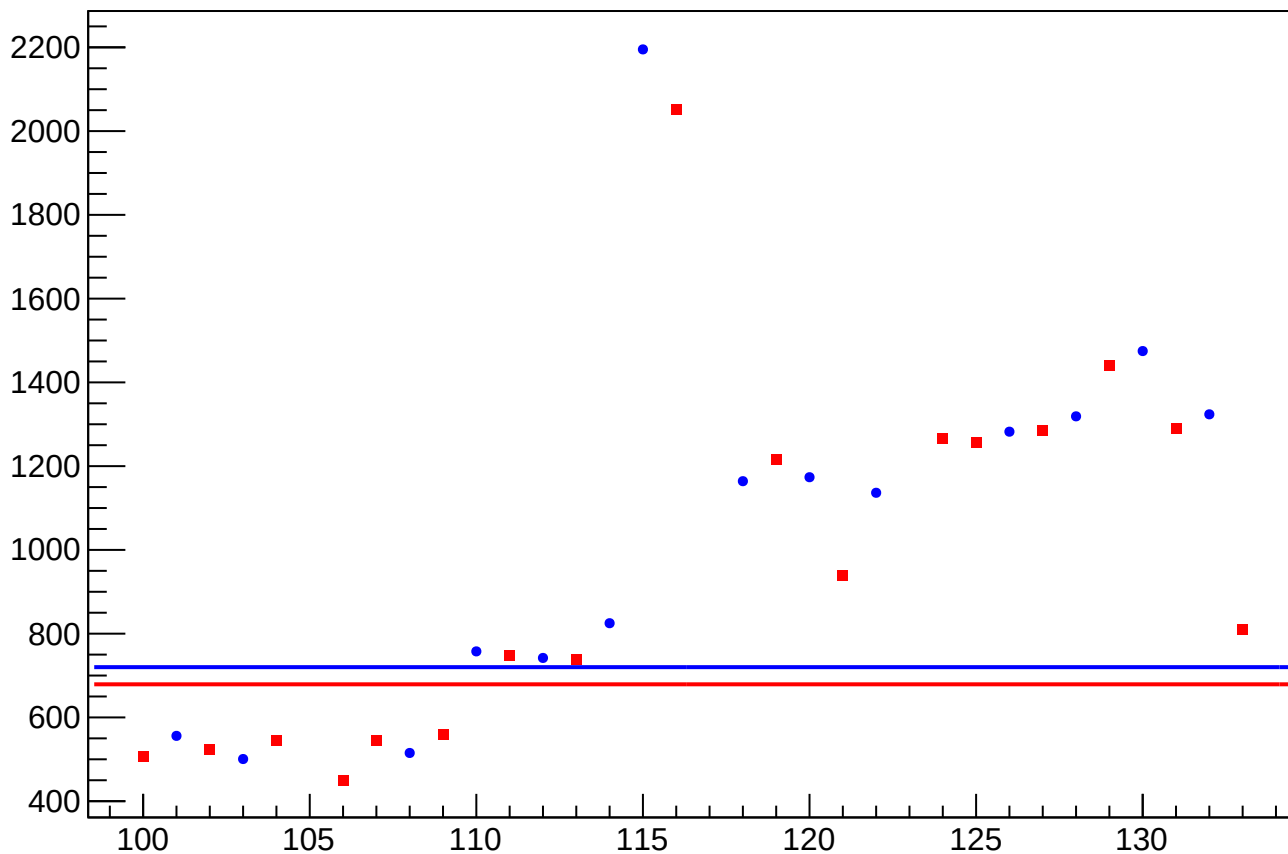
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -104.550+/-211.991  $\chi^2/\text{NDF}$ : 31.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_reg\_correction\_rms vs Slug



Right In: 720.043+/-0.226  $\chi^2/\text{NDF}$ : 1799322.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 679.061+/-0.200  $\chi^2/\text{NDF}$ : 1803999.0/16

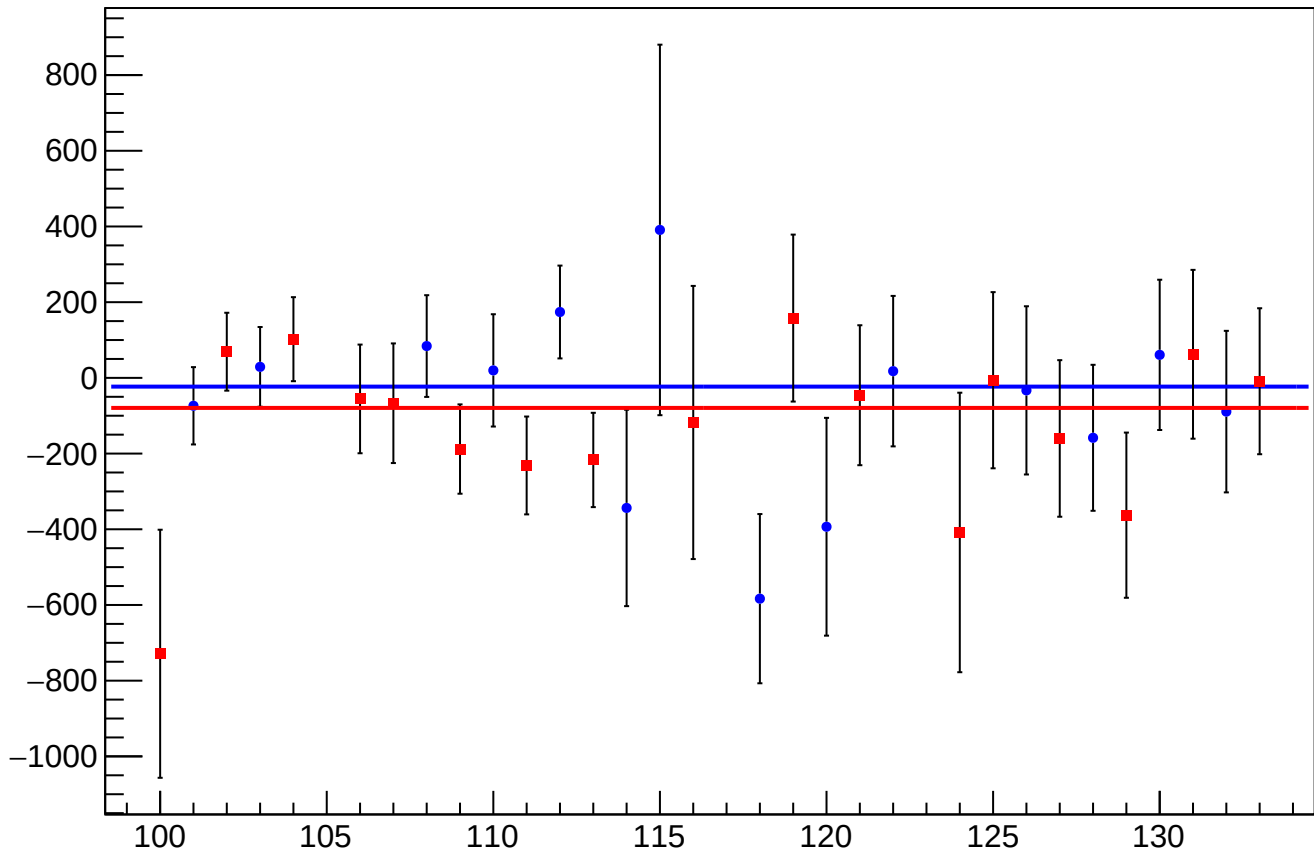
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 697.018+/-0.150  $\chi^2/\text{NDF}$ : 3621721.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam5\_mean vs Slug



Right In:  $-23.084 \pm 43.674$   $\chi^2/\text{NDF}$ : 14.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-79.351 \pm 39.399$   $\chi^2/\text{NDF}$ : 16.6/16

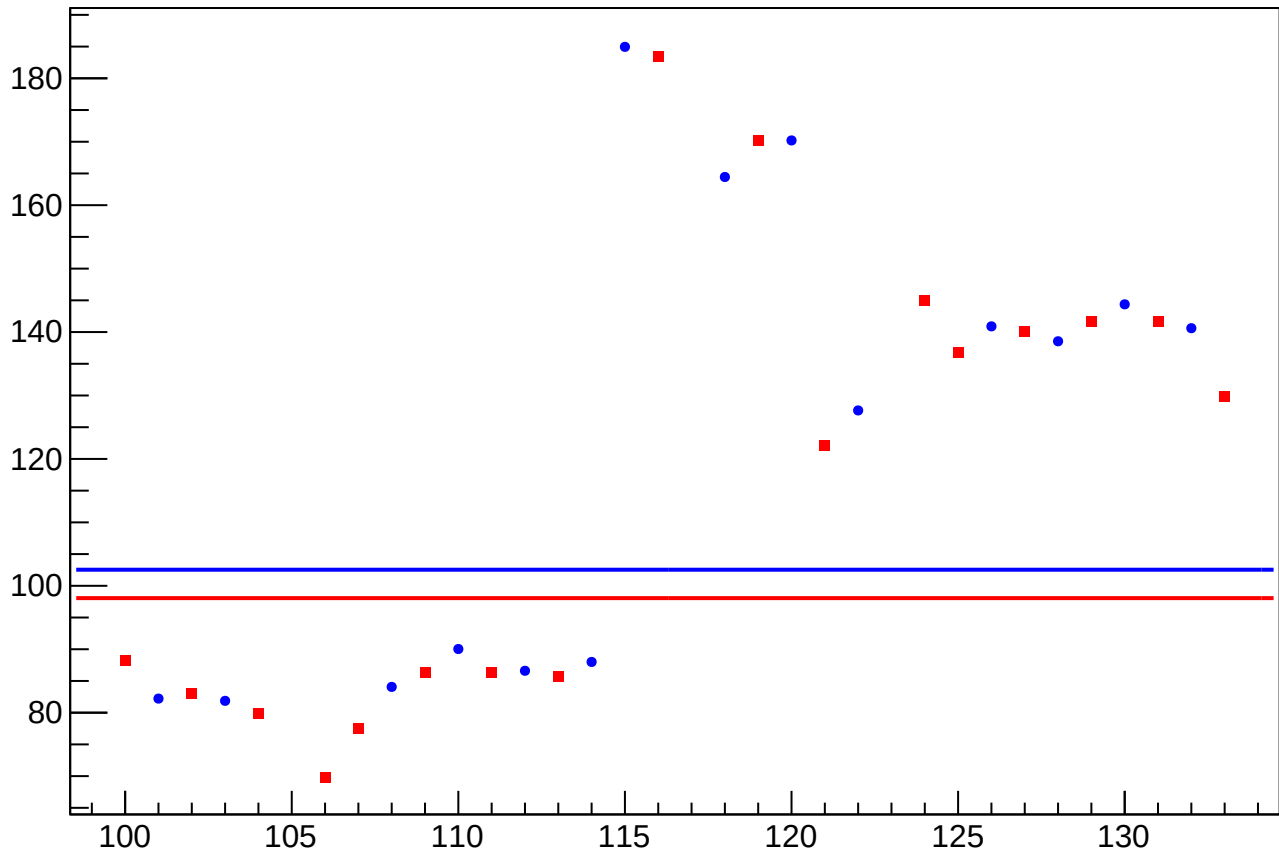
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-54.105 \pm 29.254$   $\chi^2/\text{NDF}$ : 32.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam5\_rms vs Slug



Right In: 102.537+/-0.031  $\chi^2/\text{NDF}$ : 882655.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 98.059+/-0.028  $\chi^2/\text{NDF}$ : 1005962.4/16

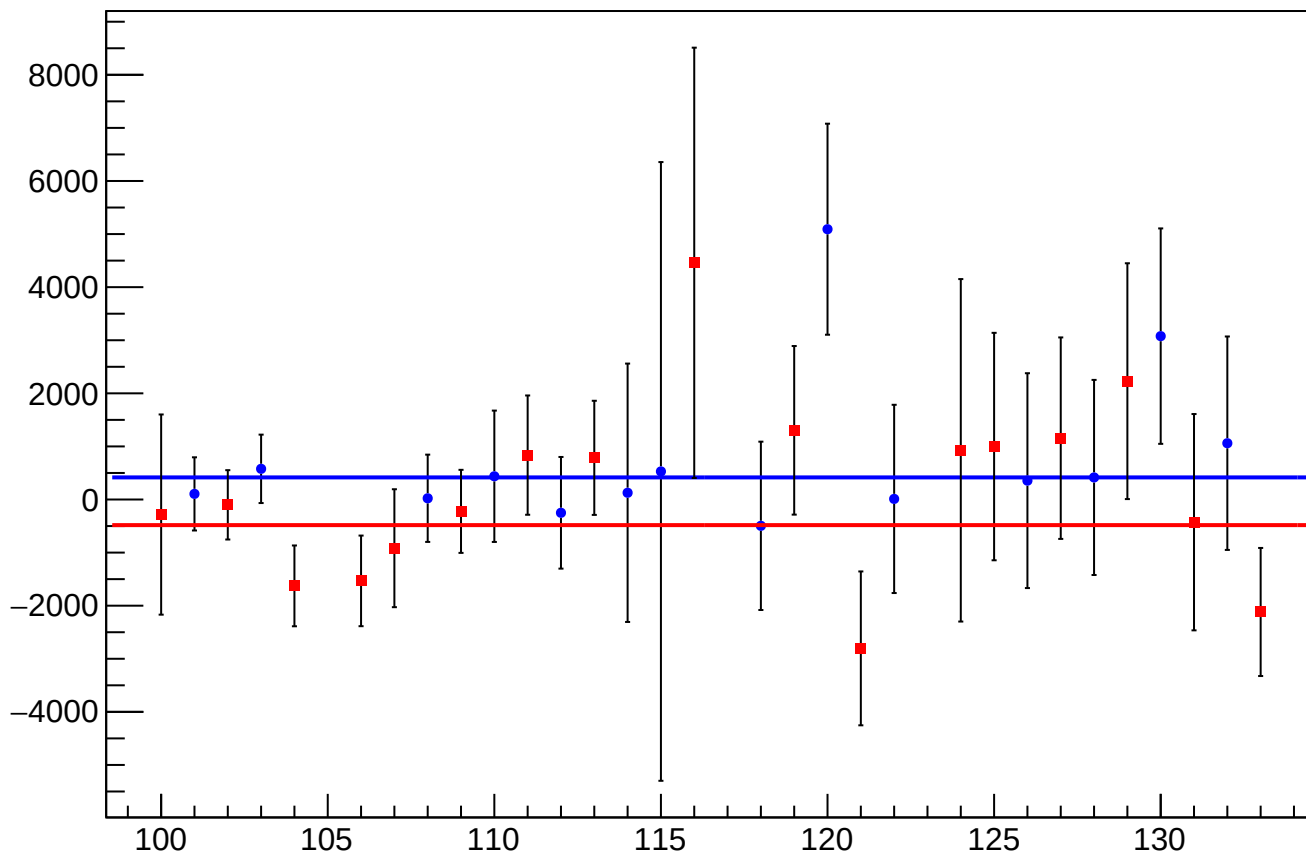
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 100.068+/-0.021  $\chi^2/\text{NDF}$ : 1900211.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_cor\_correction\_mean vs Slug



Right In: 416.407 $\pm$ 320.260  $\chi^2$ /NDF: 8.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -482.380 $\pm$ 283.025  $\chi^2$ /NDF: 17.2/16

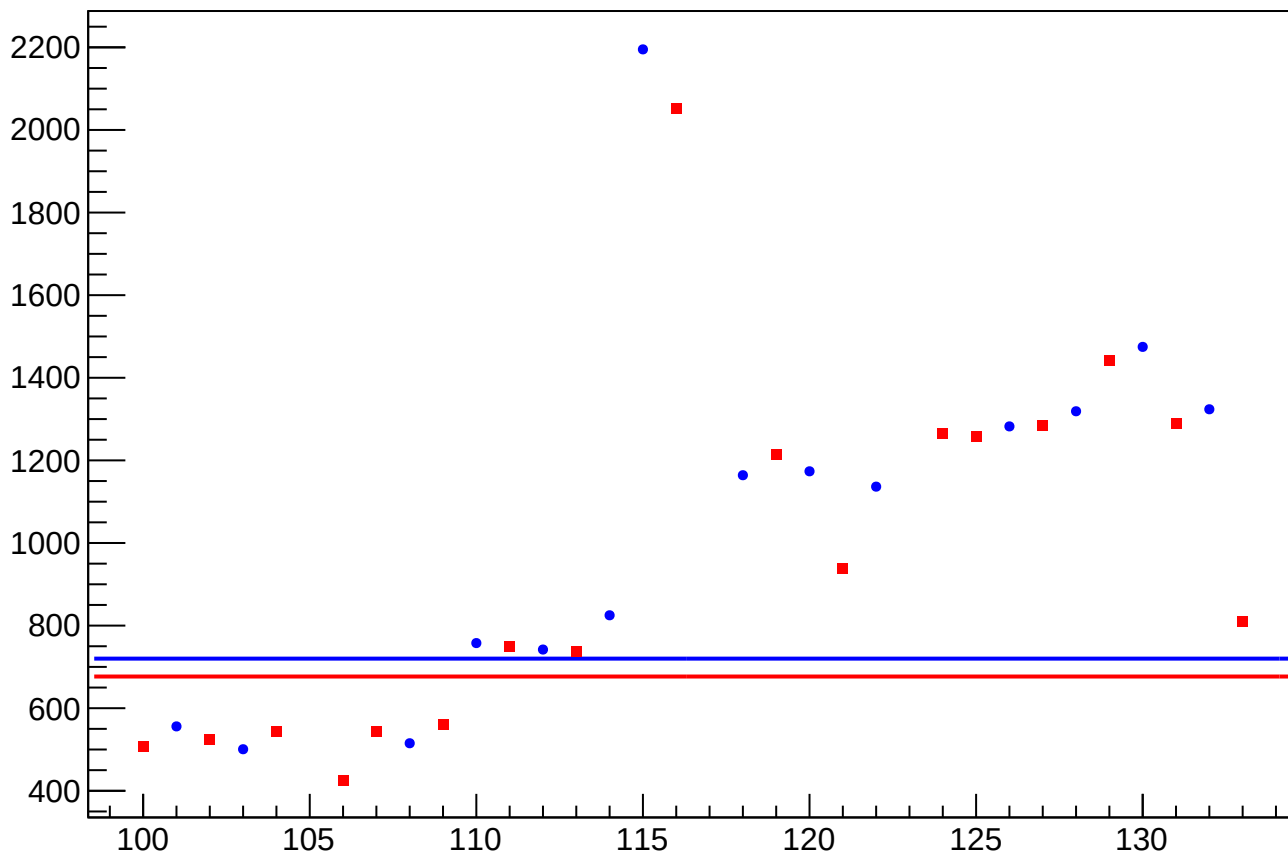
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -88.250 $\pm$ 212.077  $\chi^2$ /NDF: 30.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_cor\_correction\_rms vs Slug



Right In: 720.042 $\pm$ 0.226  $\chi^2$ /NDF: 1799323.7/13

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

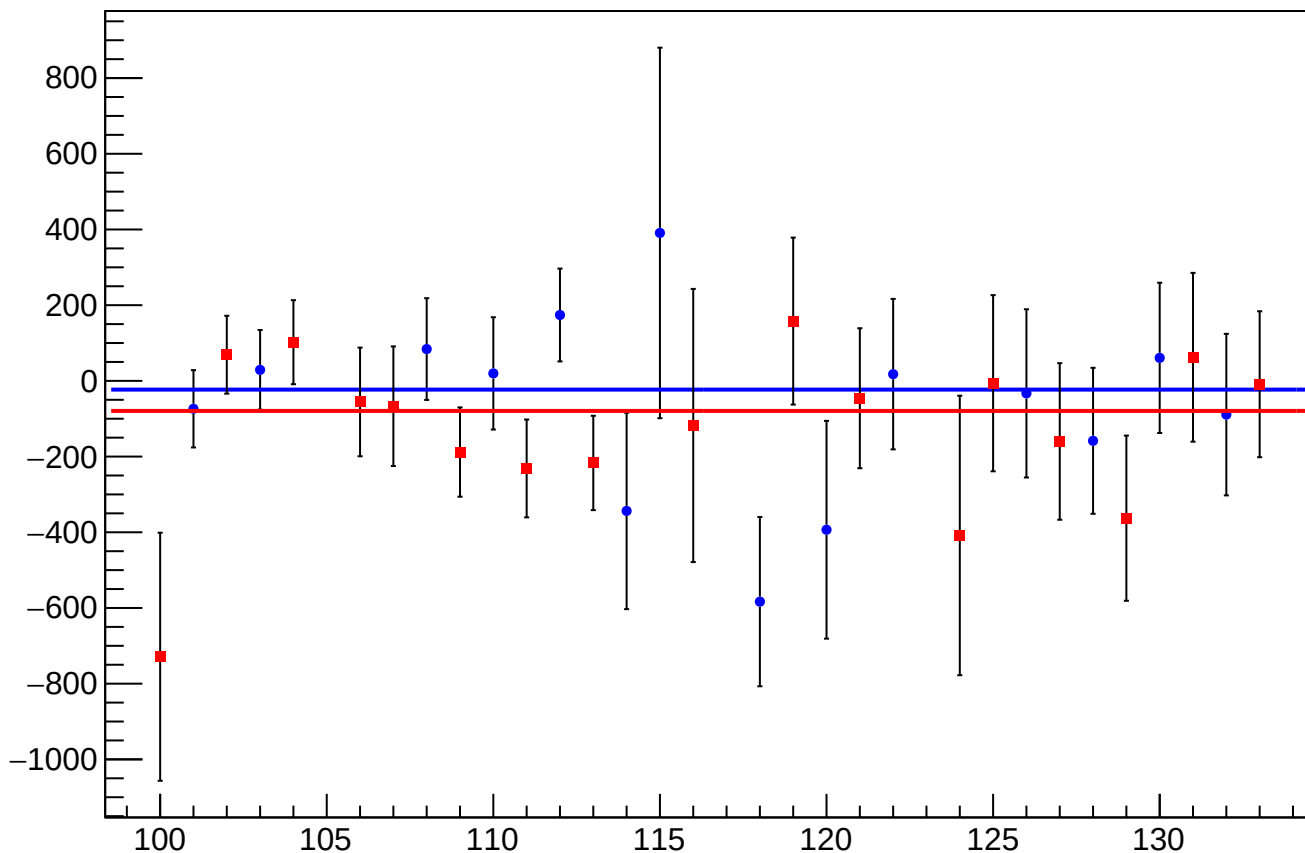
Right Out: 676.712 $\pm$ 0.200  $\chi^2$ /NDF: 1834386.4/16

All: 695.713 $\pm$ 0.150  $\chi^2$ /NDF: 3654266.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam5\_mean vs Slug



Right In: -23.084+/-43.674  $\chi^2/\text{NDF}$ : 14.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -79.351+/-39.399  $\chi^2/\text{NDF}$ : 16.6/16

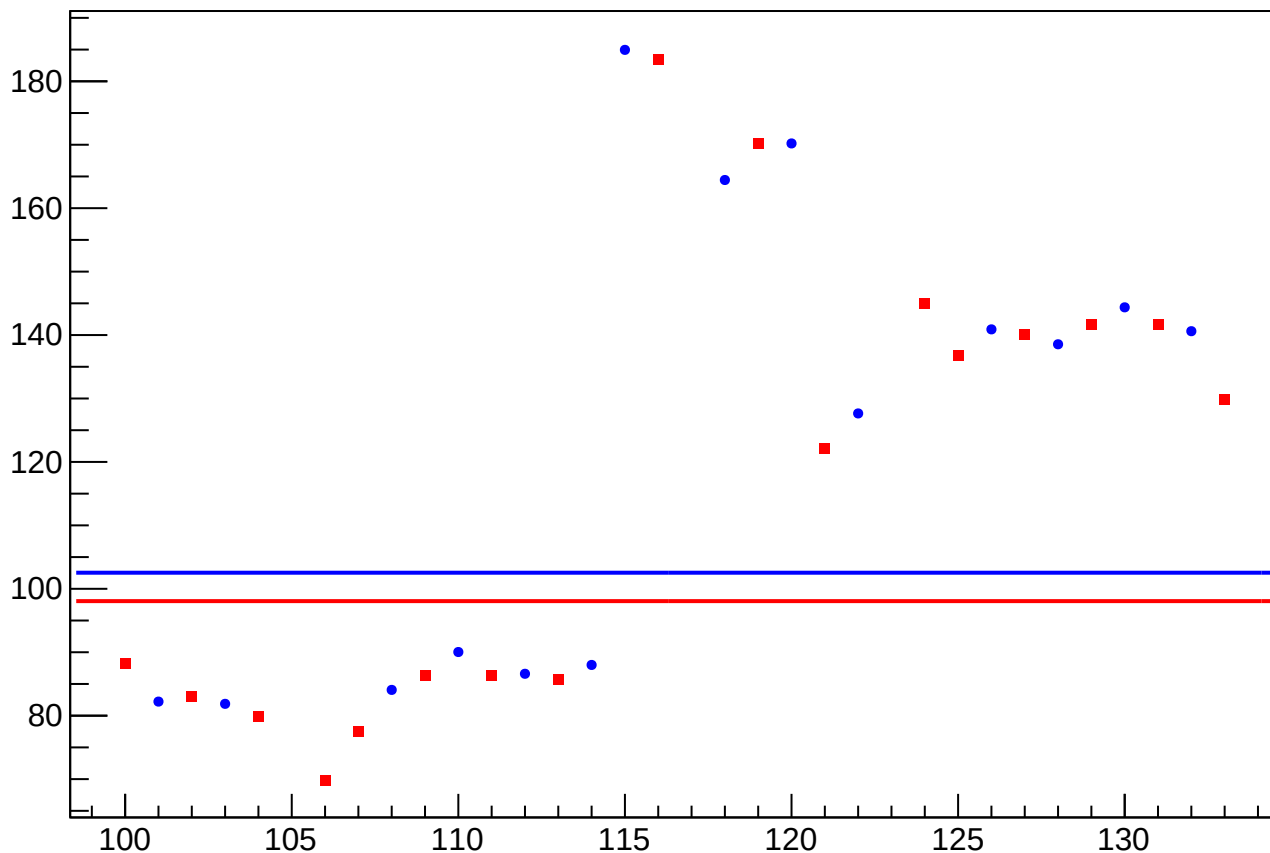
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -54.105+/-29.254  $\chi^2/\text{NDF}$ : 32.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam5\_rms vs Slug



Right In: 102.537 $\pm$ 0.031  $\chi^2$ /NDF: 882655.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 98.059 $\pm$ 0.028  $\chi^2$ /NDF: 1005962.4/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

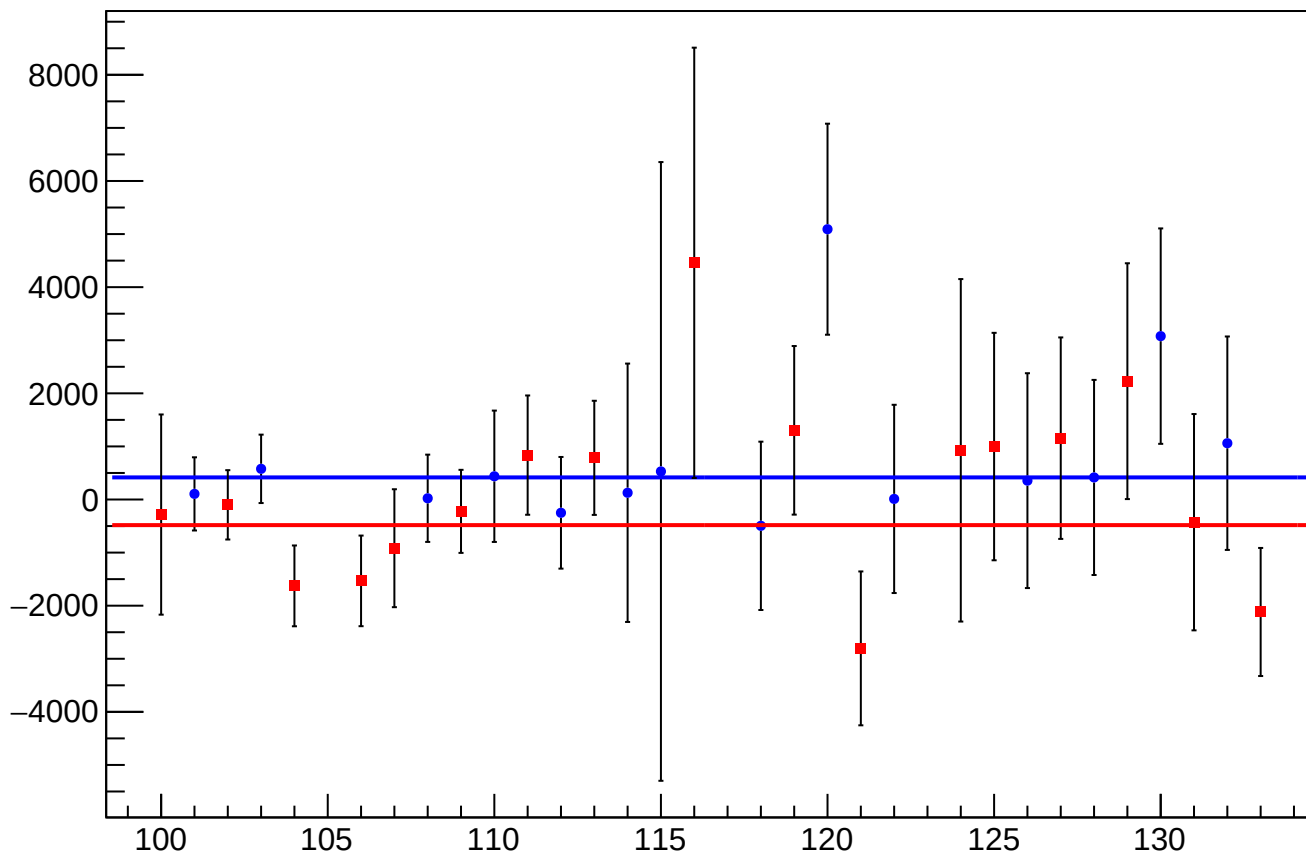
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 100.068 $\pm$ 0.021  $\chi^2$ /NDF: 1900211.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam5\_eigen\_cor\_correction\_mean vs Slug



Right In: 416.407+/-320.260  $\chi^2/\text{NDF}$ : 8.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -482.380+/-283.025  $\chi^2/\text{NDF}$ : 17.2/16

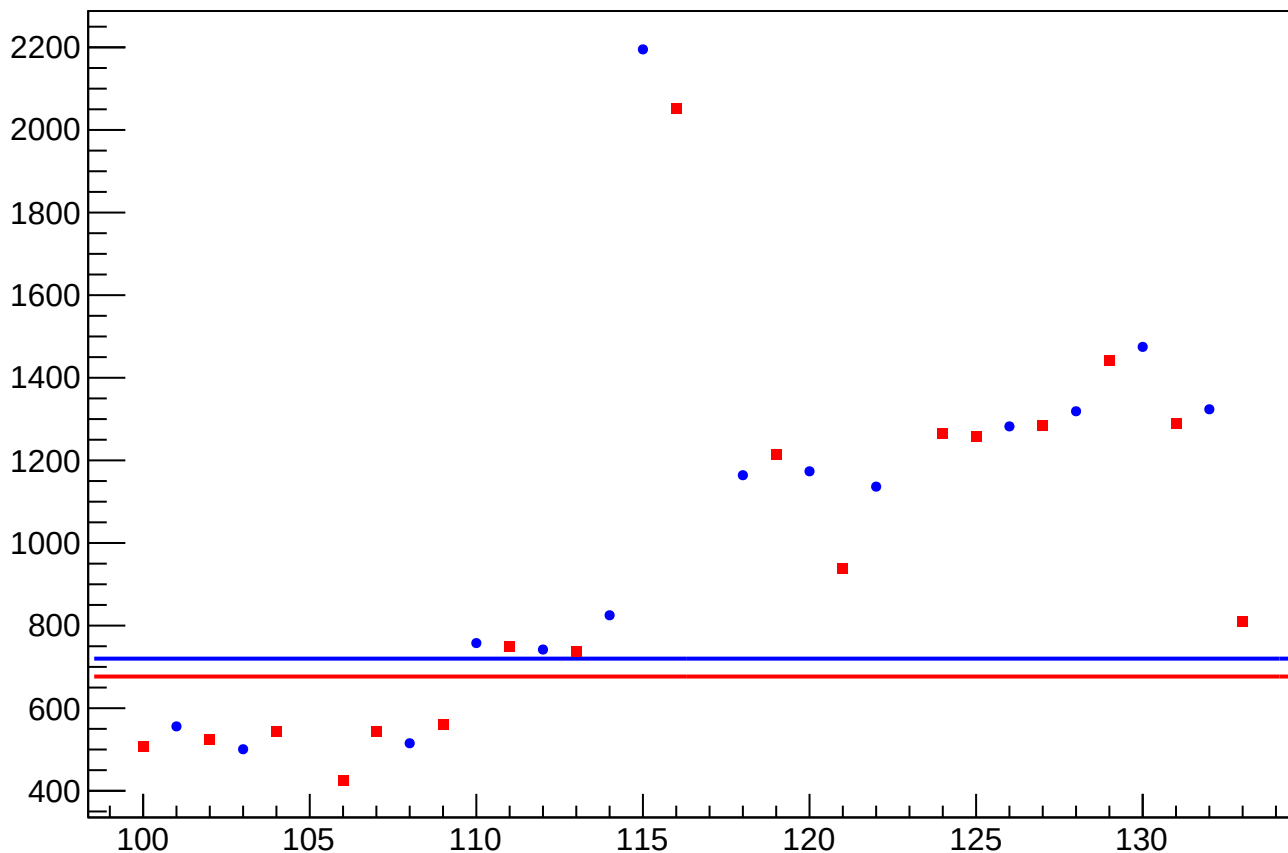
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -88.250+/-212.077  $\chi^2/\text{NDF}$ : 30.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_eigen\_cor\_correction\_rms vs Slug



Right In: 720.042 $\pm$ 0.226  $\chi^2$ /NDF: 1799323.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 676.712 $\pm$ 0.200  $\chi^2$ /NDF: 1834386.4/16

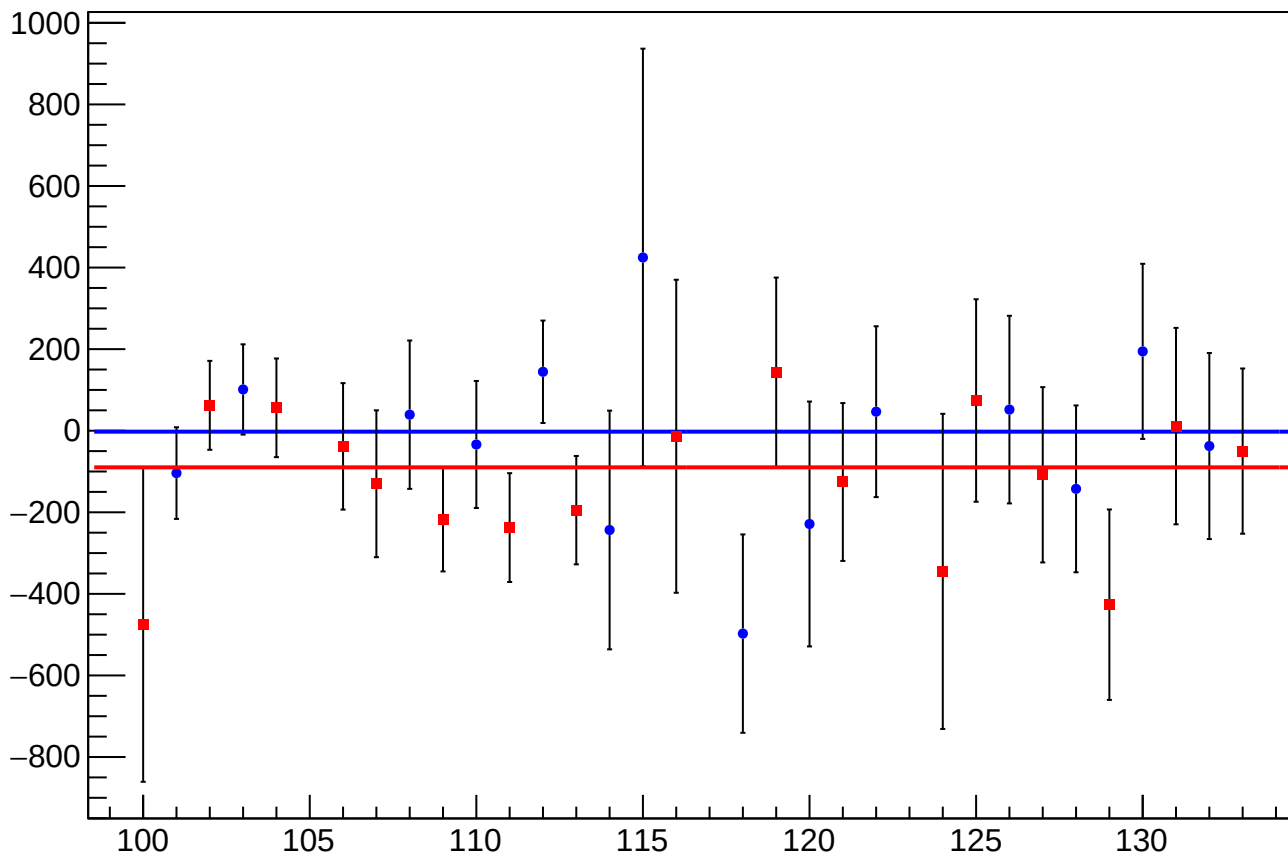
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 695.713 $\pm$ 0.150  $\chi^2$ /NDF: 3654266.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam5\_mean vs Slug



Right In: -2.324+/-47.362  $\chi^2/\text{NDF}$ : 10.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -89.811+/-42.172  $\chi^2/\text{NDF}$ : 11.7/16

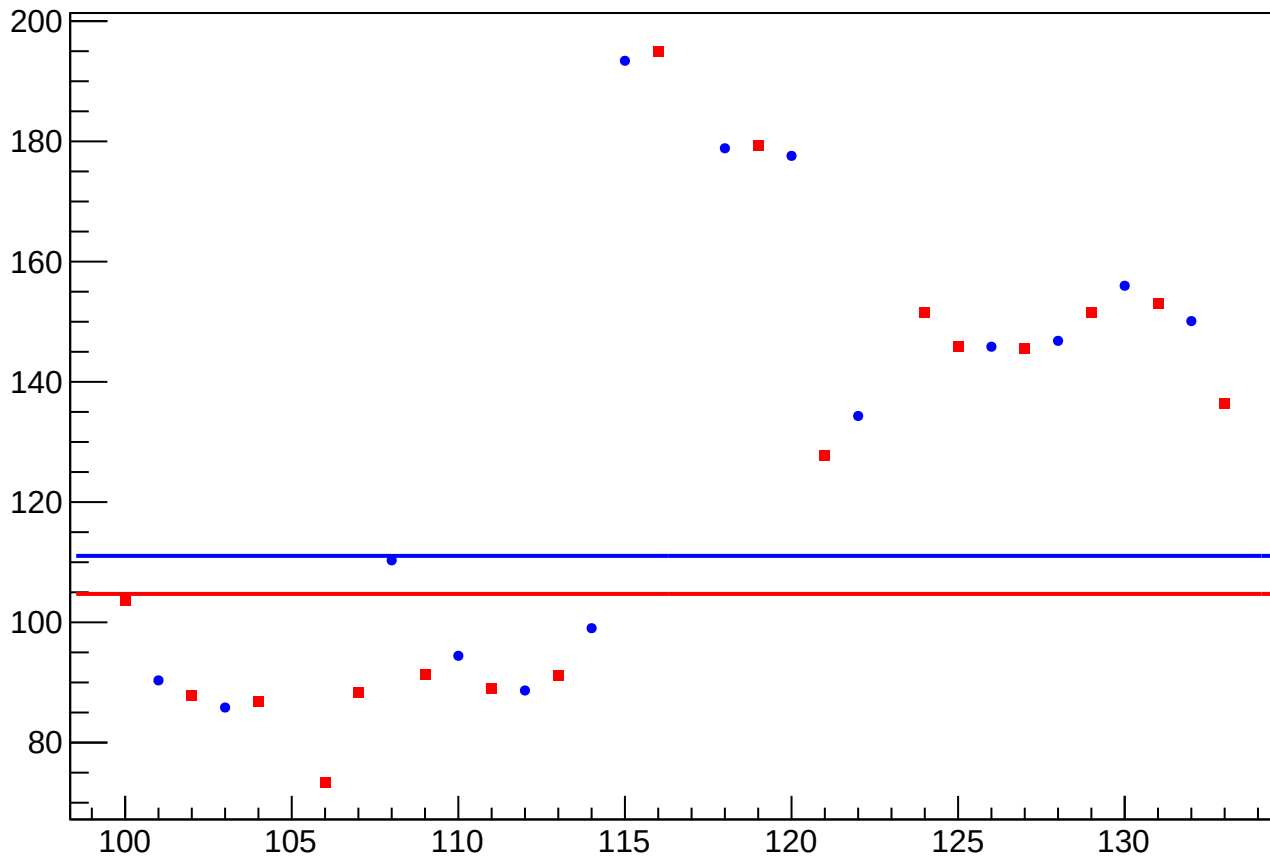
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -51.122+/-31.496  $\chi^2/\text{NDF}$ : 24.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam5\_rms vs Slug



Right In: 111.055+/-0.033  $\chi^2/\text{NDF}$ : 845008.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 104.729+/-0.030  $\chi^2/\text{NDF}$ : 971211.2/16

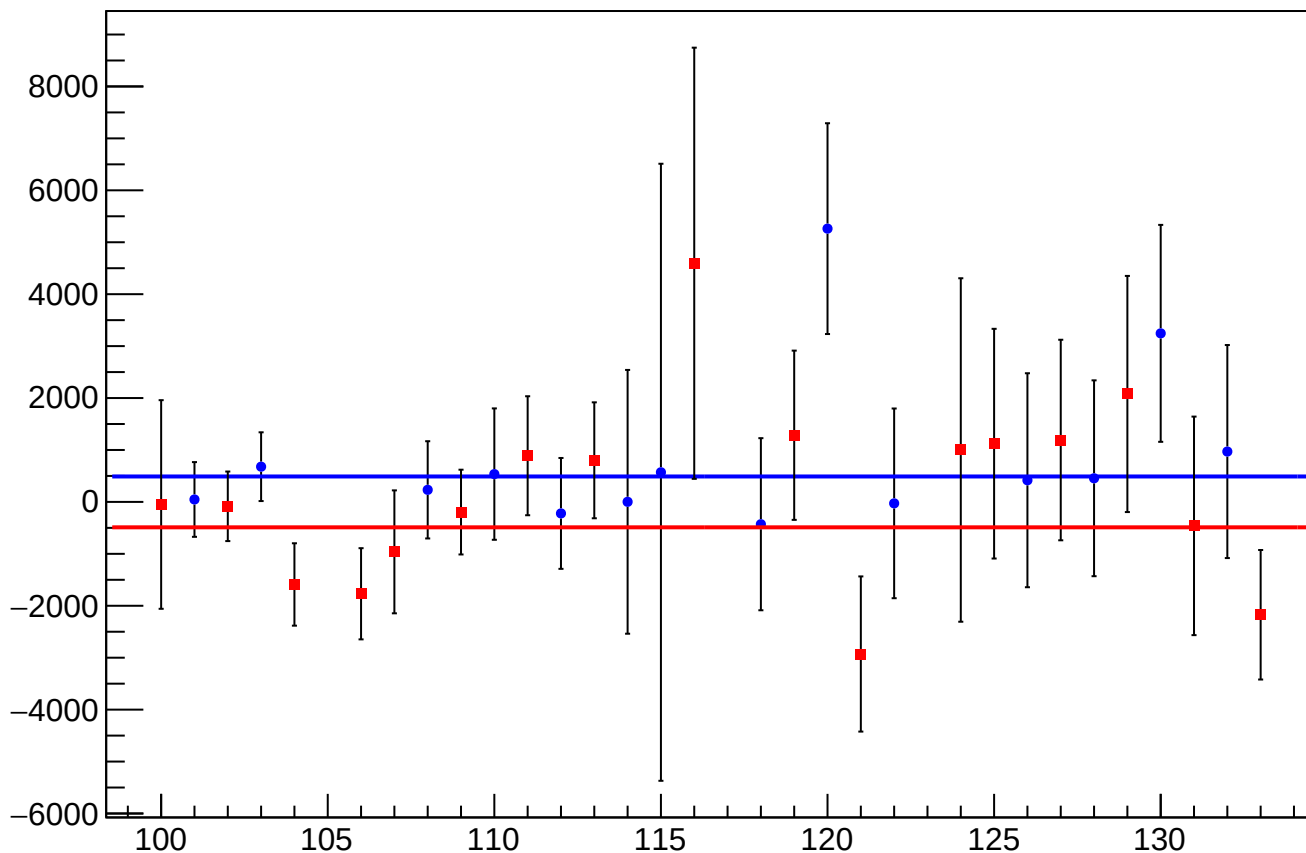
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 107.526+/-0.022  $\chi^2/\text{NDF}$ : 1836122.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_dit\_correction\_mean vs Slug



Right In: 489.743+/-334.624  $\chi^2/\text{NDF}$ : 8.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -489.549+/-292.936  $\chi^2/\text{NDF}$ : 17.5/16

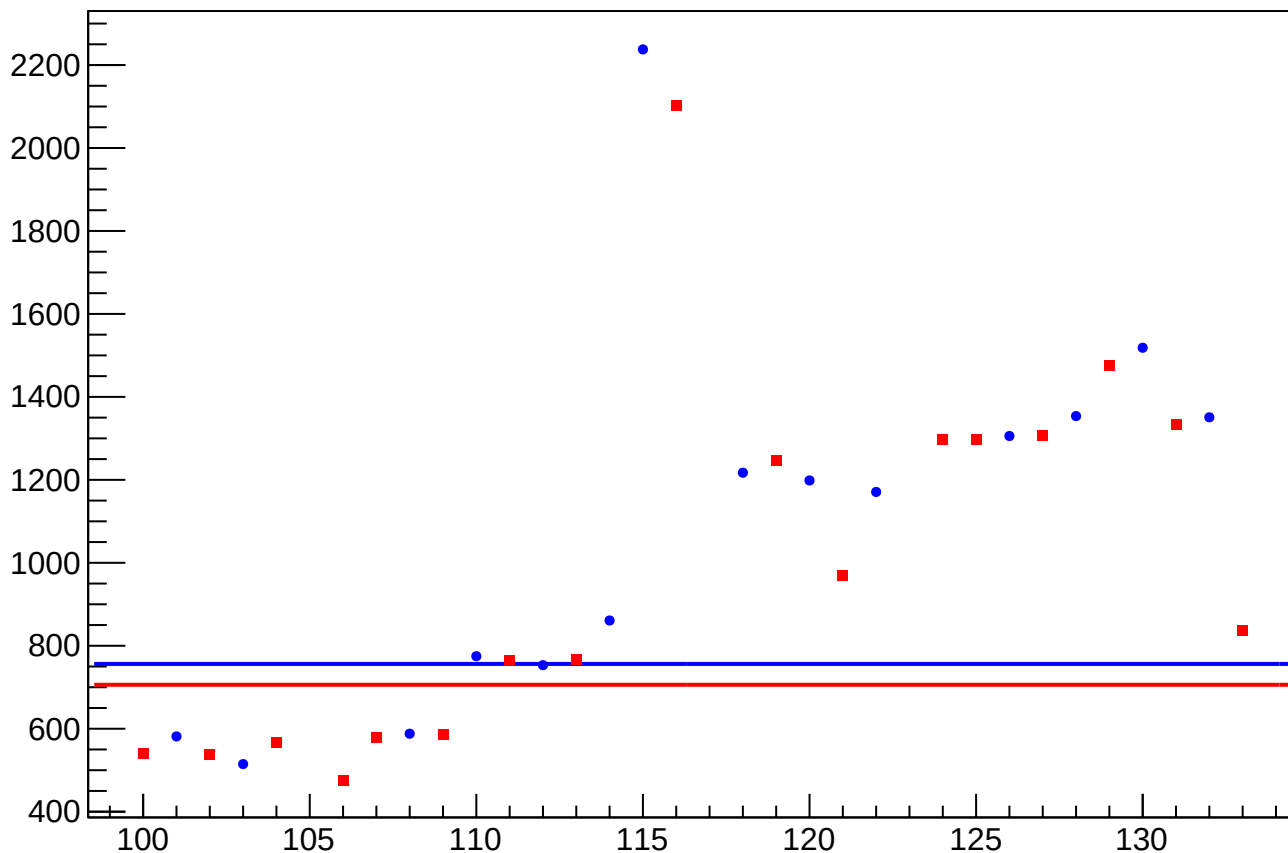
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -64.670+/-220.411  $\chi^2/\text{NDF}$ : 31.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_dit\_correction\_rms vs Slug



Right In: 756.215+/-0.237  $\chi^2/\text{NDF}$ : 1707151.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 705.944+/-0.207  $\chi^2/\text{NDF}$ : 1755238.9/16

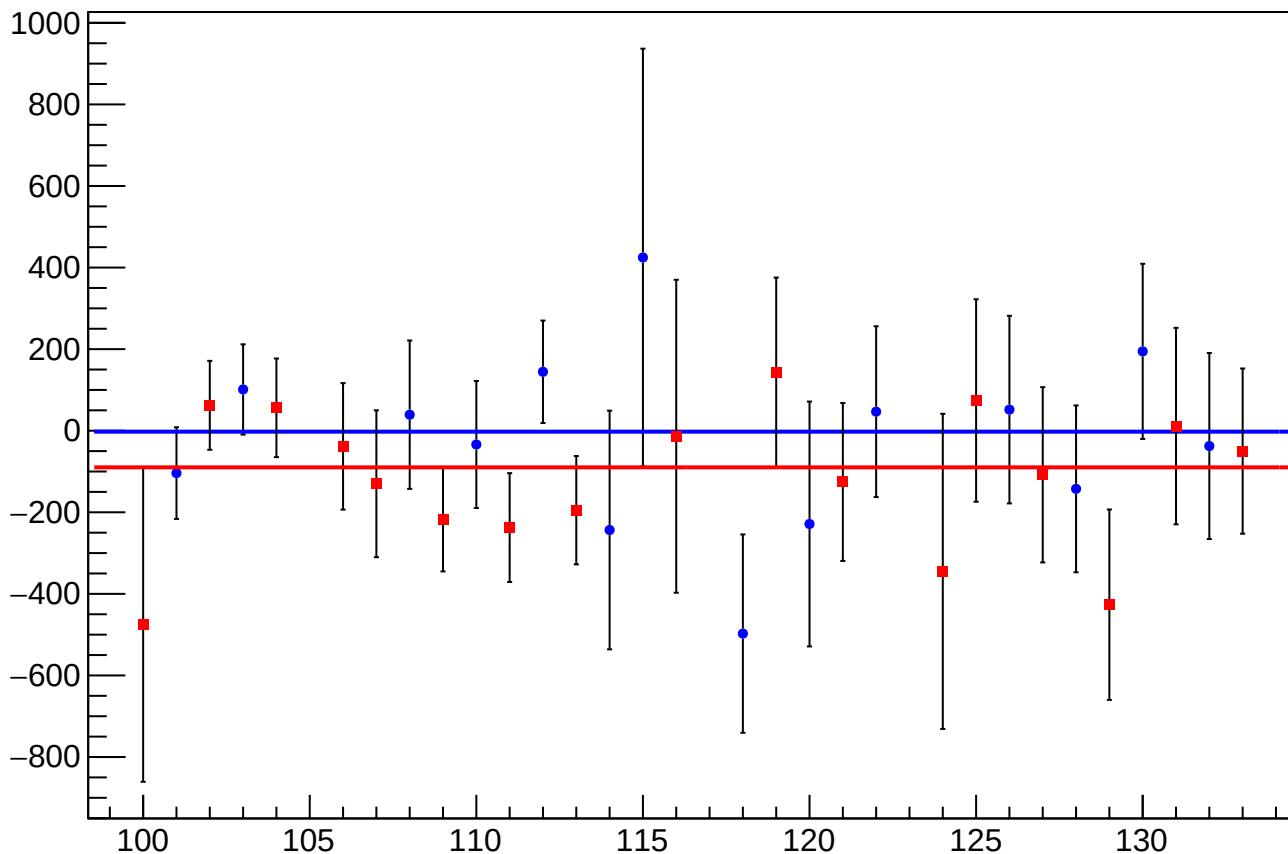
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 727.754+/-0.156  $\chi^2/\text{NDF}$ : 3487945.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam5\_mean vs Slug



Right In:  $-2.326 \pm 47.362$   $\chi^2/\text{NDF}$ : 10.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-89.812 \pm 42.172$   $\chi^2/\text{NDF}$ : 11.7/16

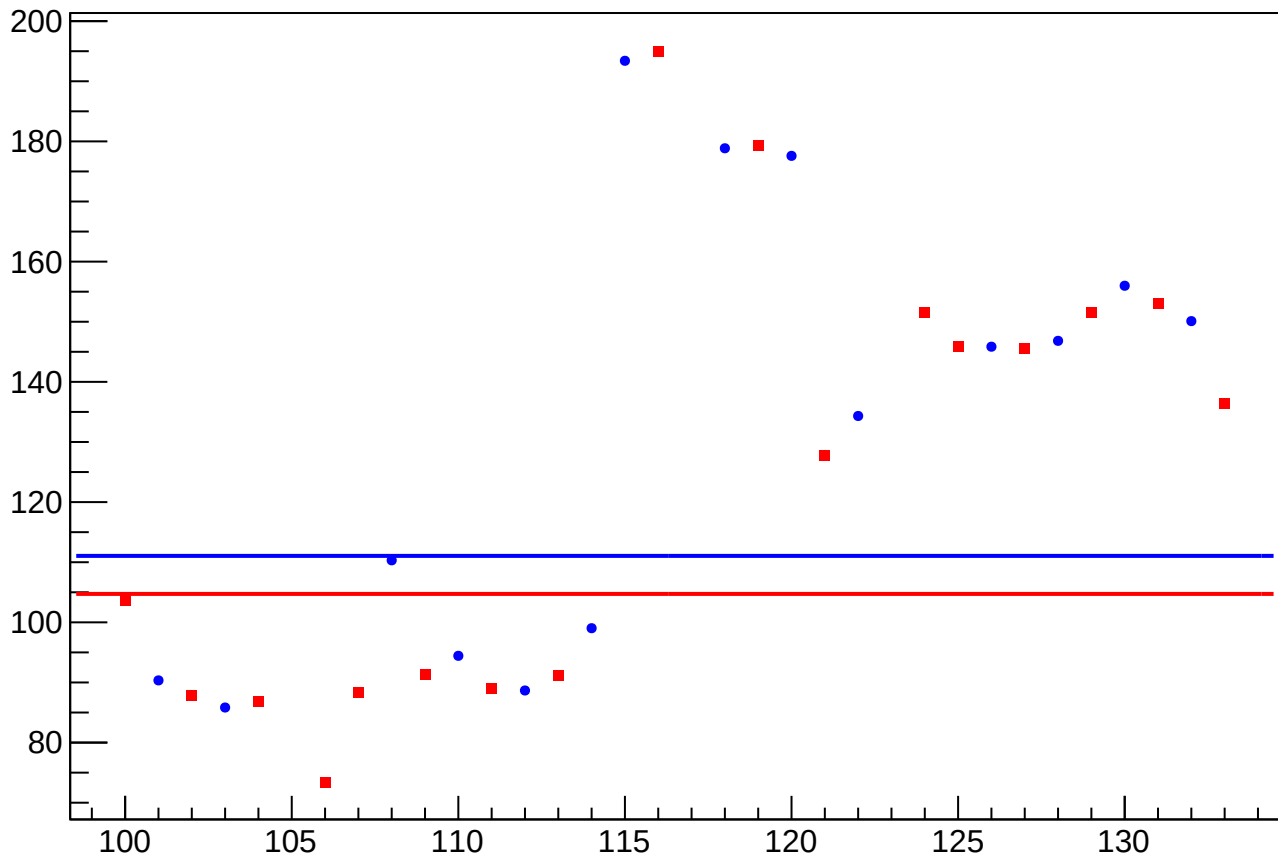
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-51.123 \pm 31.496$   $\chi^2/\text{NDF}$ : 24.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam5\_rms vs Slug



Right In: 111.055+/-0.033  $\chi^2/\text{NDF}$ : 845002.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 104.729+/-0.030  $\chi^2/\text{NDF}$ : 971201.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

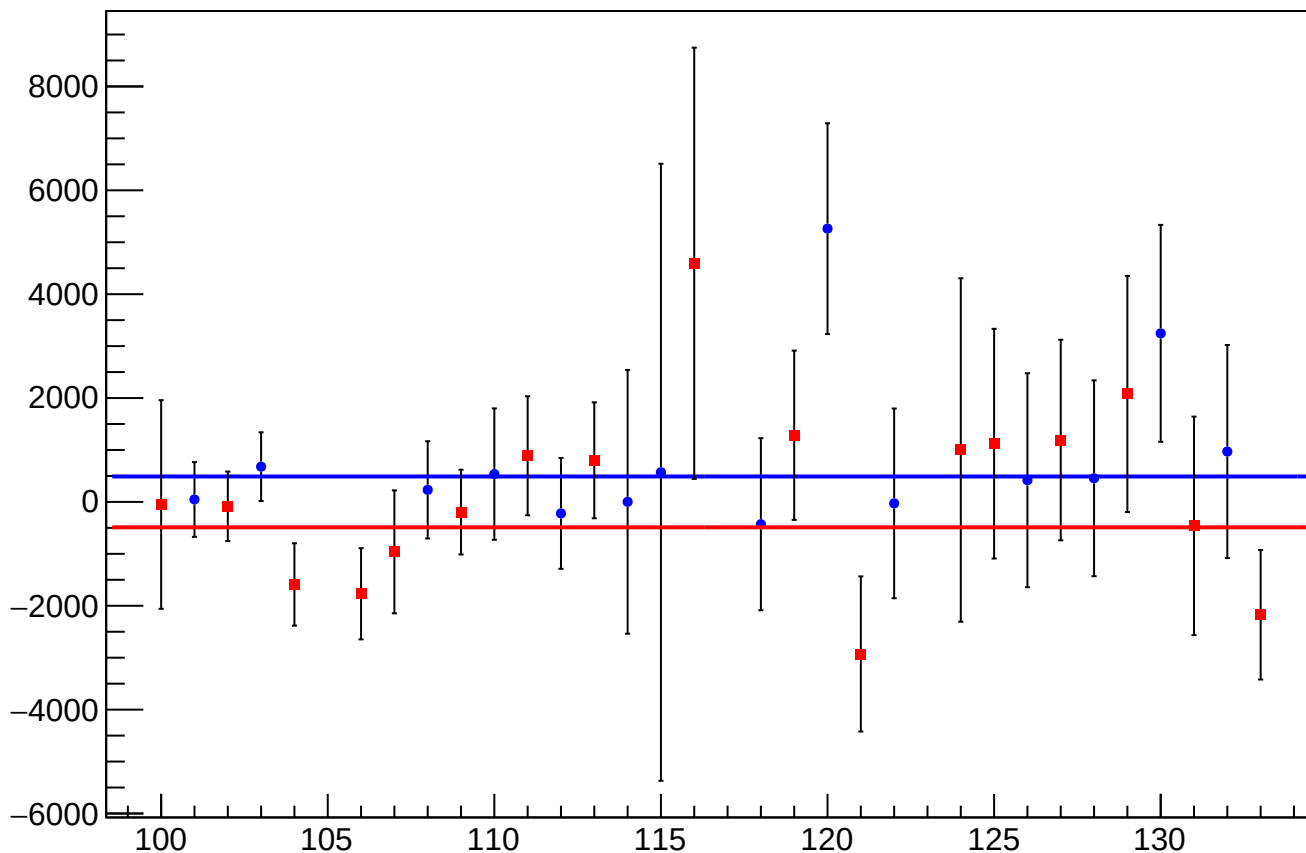
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 107.526+/-0.022  $\chi^2/\text{NDF}$ : 1836106.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam5\_eigen\_dit\_correction\_mean vs Slug



Right In: 489.742+/-334.623  $\chi^2/\text{NDF}$ : 8.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -489.549+/-292.936  $\chi^2/\text{NDF}$ : 17.5/16

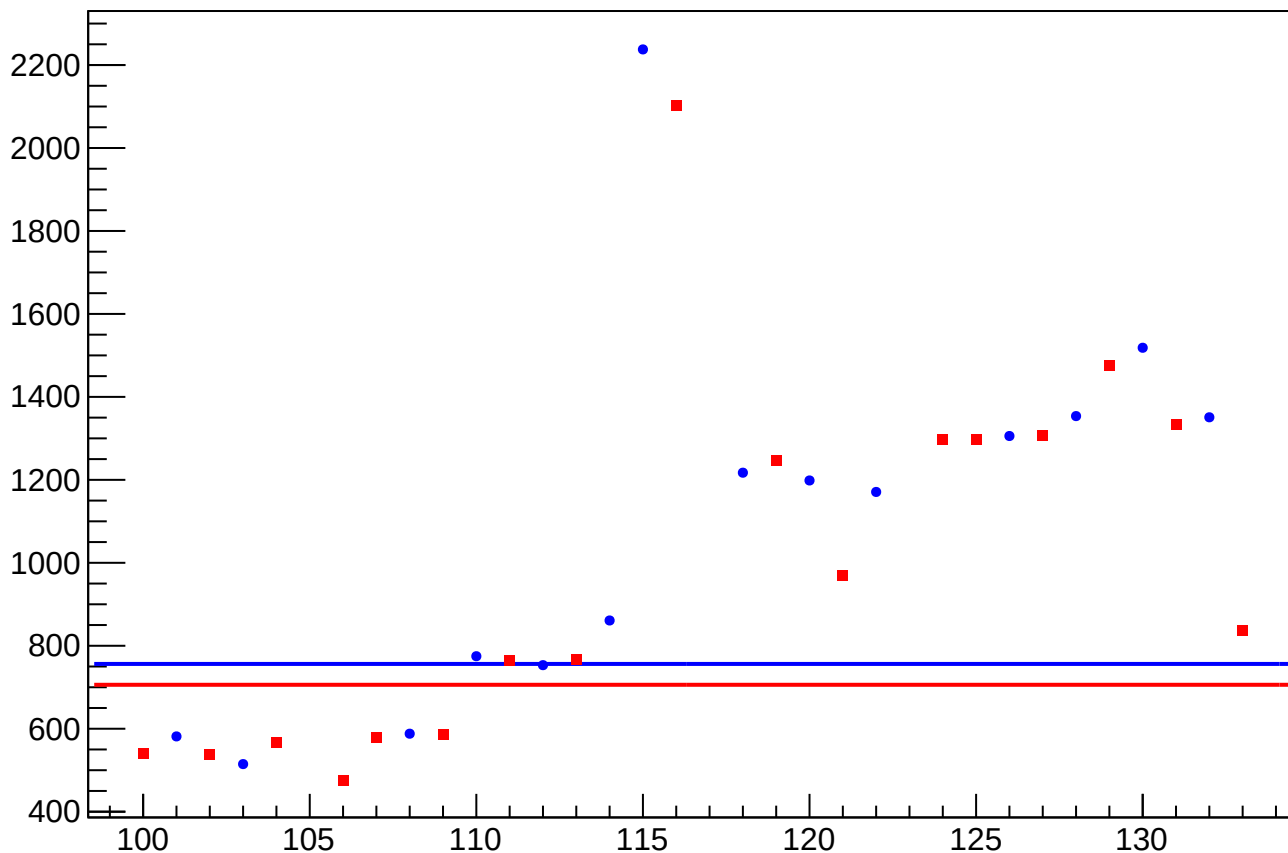
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -64.670+/-220.411  $\chi^2/\text{NDF}$ : 31.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_eigen\_dit\_correction\_rms vs Slug



Right In: 756.214+/-0.237  $\chi^2/\text{NDF}$ : 1707148.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 705.943+/-0.207  $\chi^2/\text{NDF}$ : 1755233.0/16

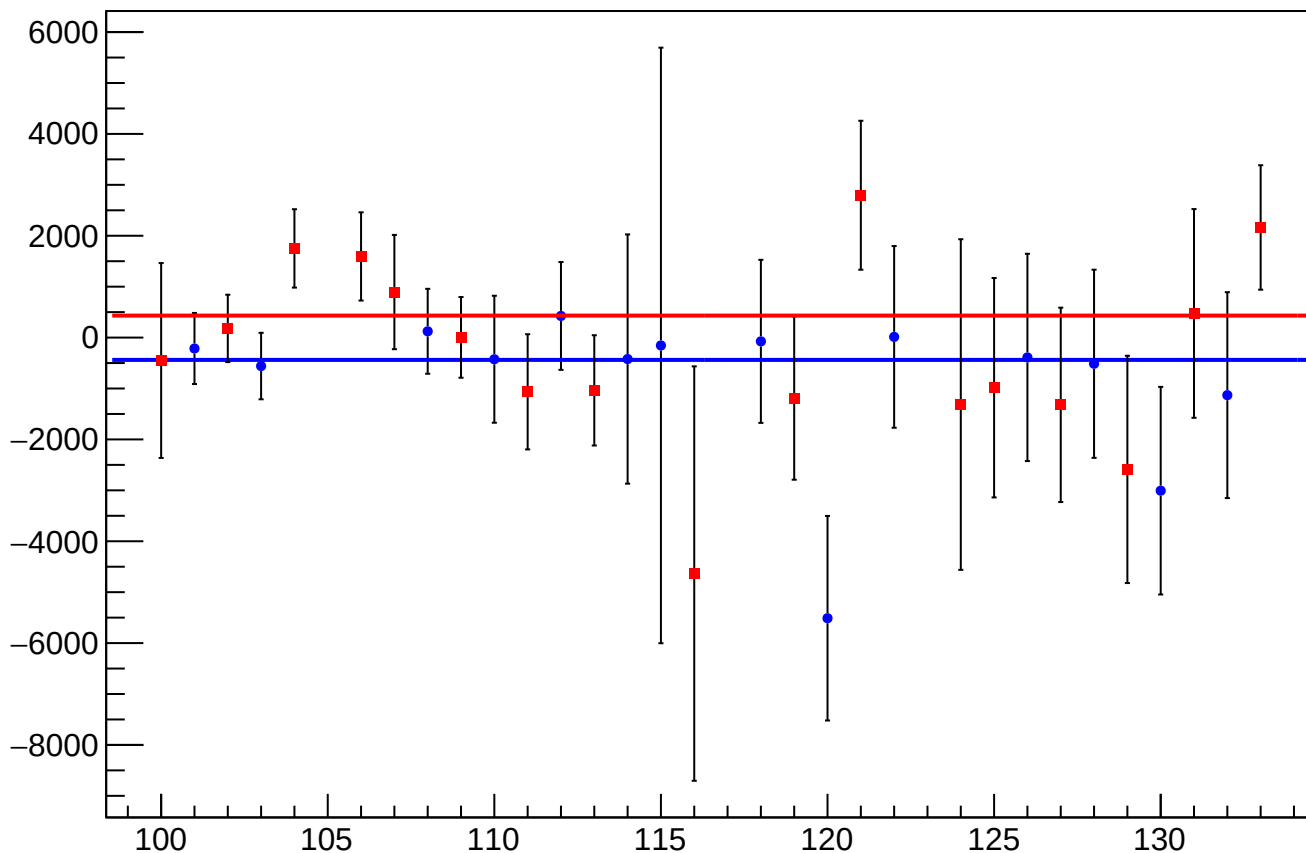
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 727.753+/-0.156  $\chi^2/\text{NDF}$ : 3487935.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_mean vs Slug



Right In:  $-438.115 \pm 323.807$   $\chi^2/\text{NDF}$ : 9.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $431.933 \pm 286.184$   $\chi^2/\text{NDF}$ : 19.7/16

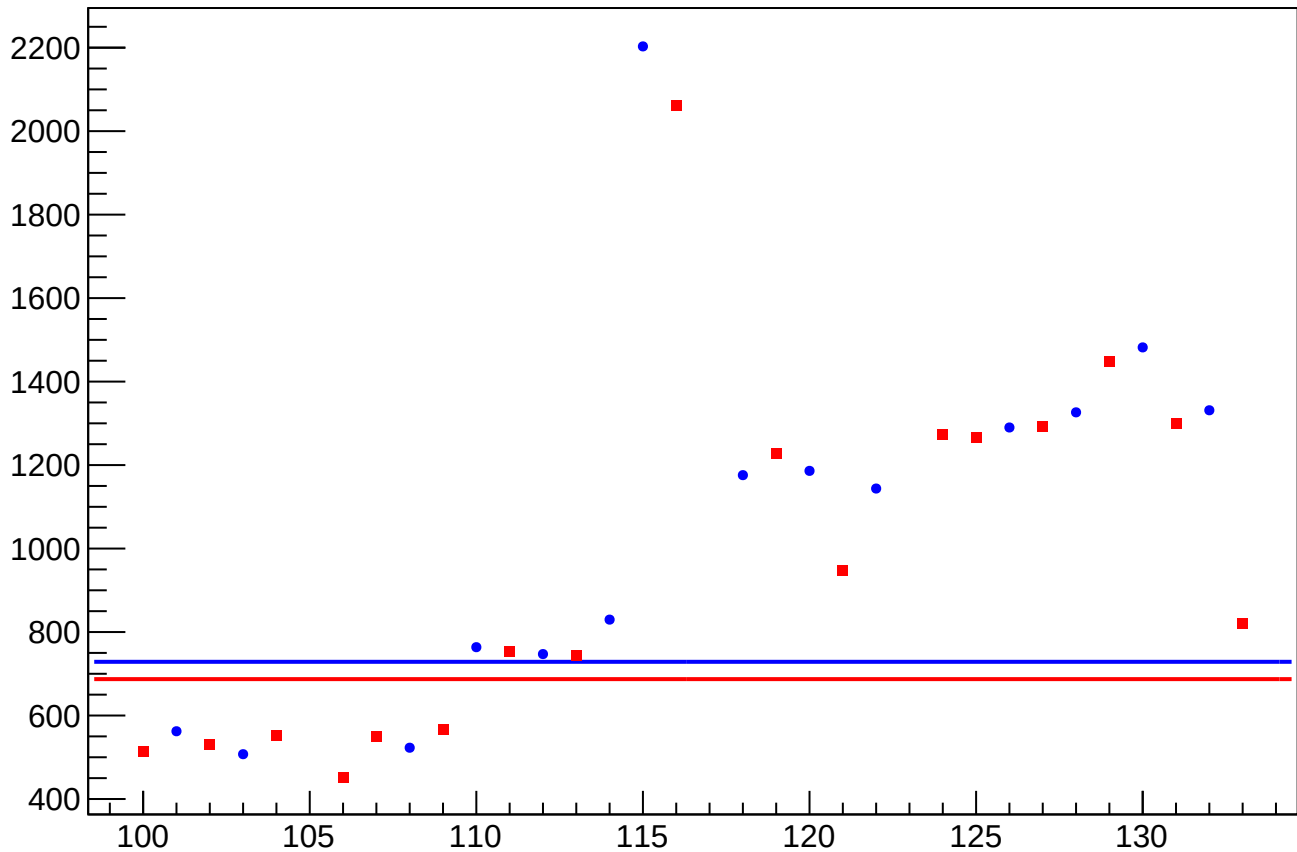
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $50.369 \pm 214.437$   $\chi^2/\text{NDF}$ : 33.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_rms vs Slug



Right In: 728.688+/-0.229  $\chi^2/\text{NDF}$ : 1777864.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 687.205+/-0.202  $\chi^2/\text{NDF}$ : 1788584.3/16

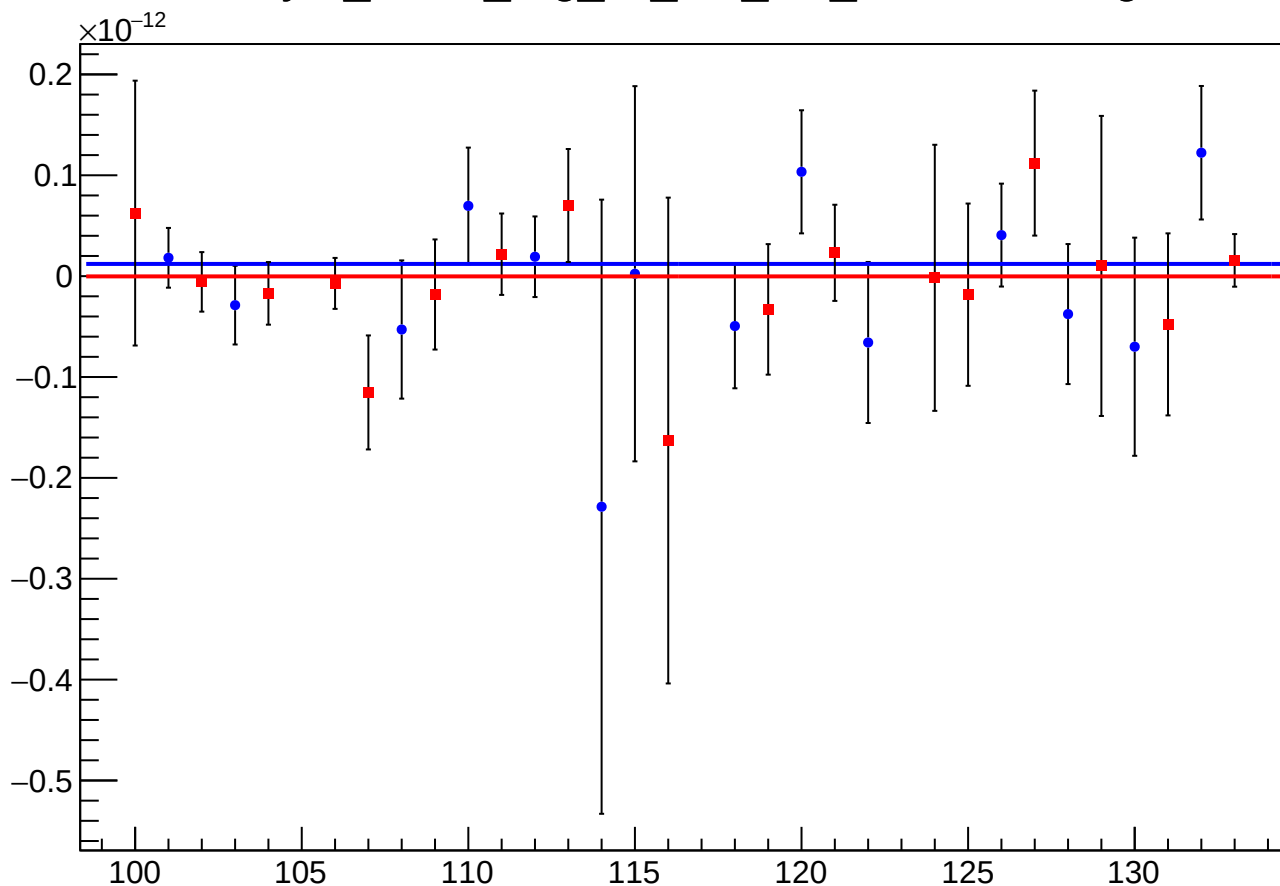
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 705.398+/-0.152  $\chi^2/\text{NDF}$ : 3584877.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.8/16

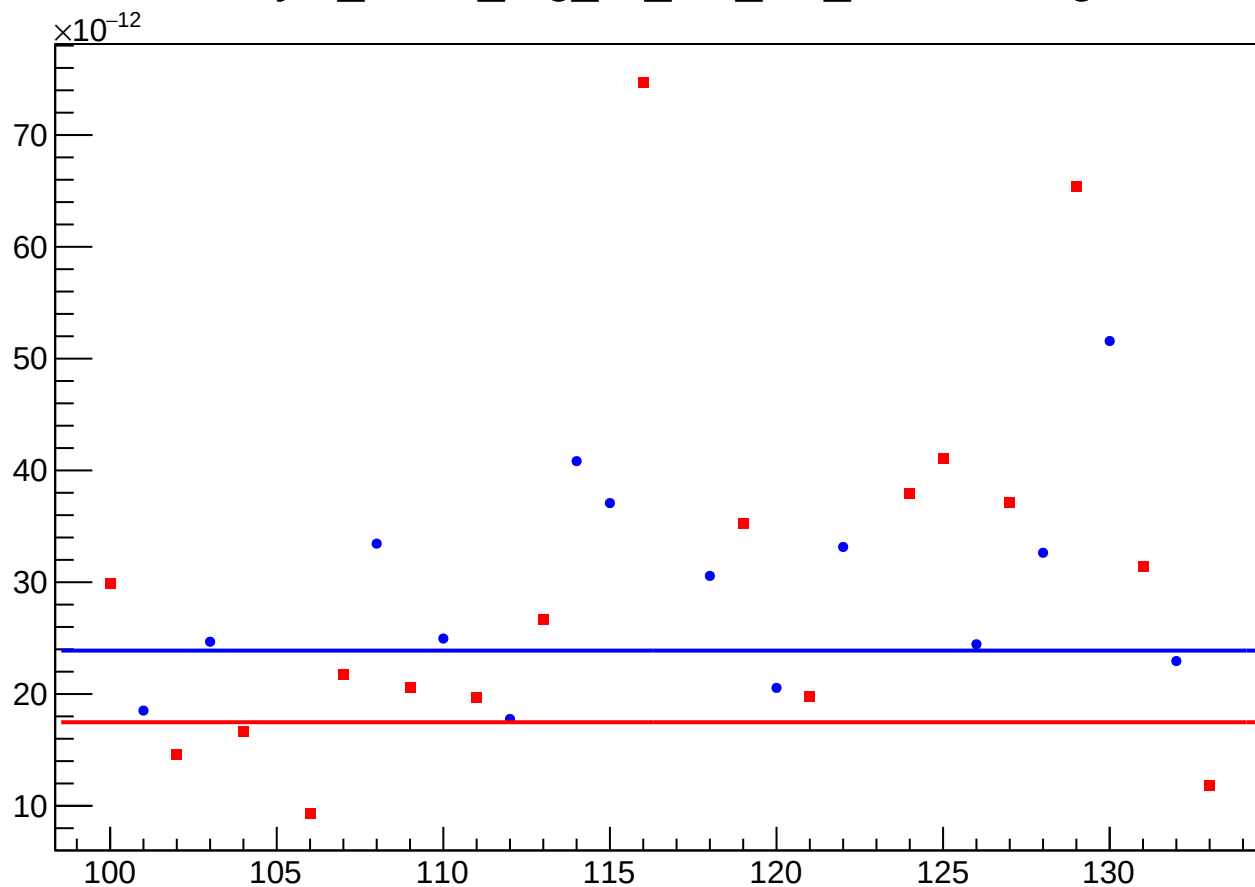
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 23.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 389175.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1278463.8/16

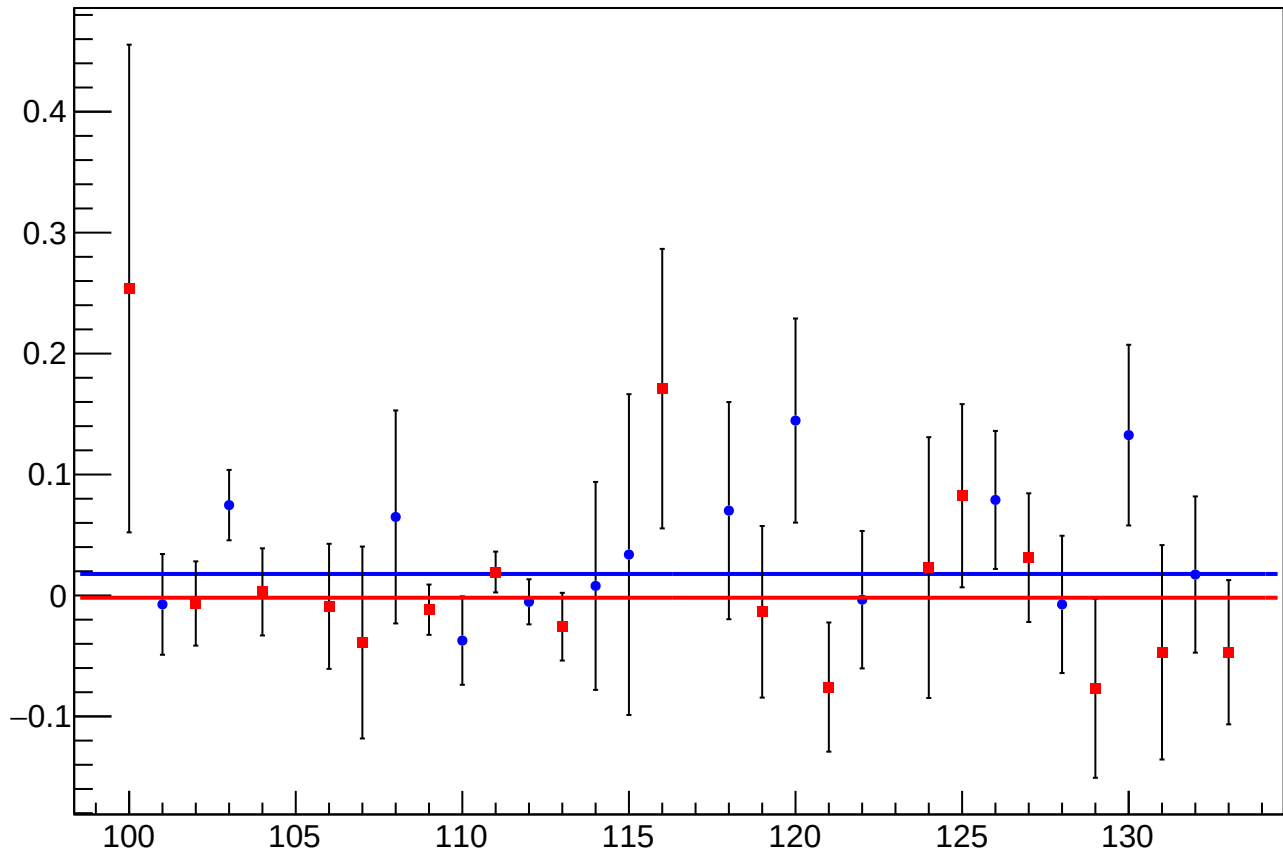
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1907500.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.018 $\pm$ 0.012  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.002 $\pm$ 0.009  $\chi^2$ /NDF: 12.1/16

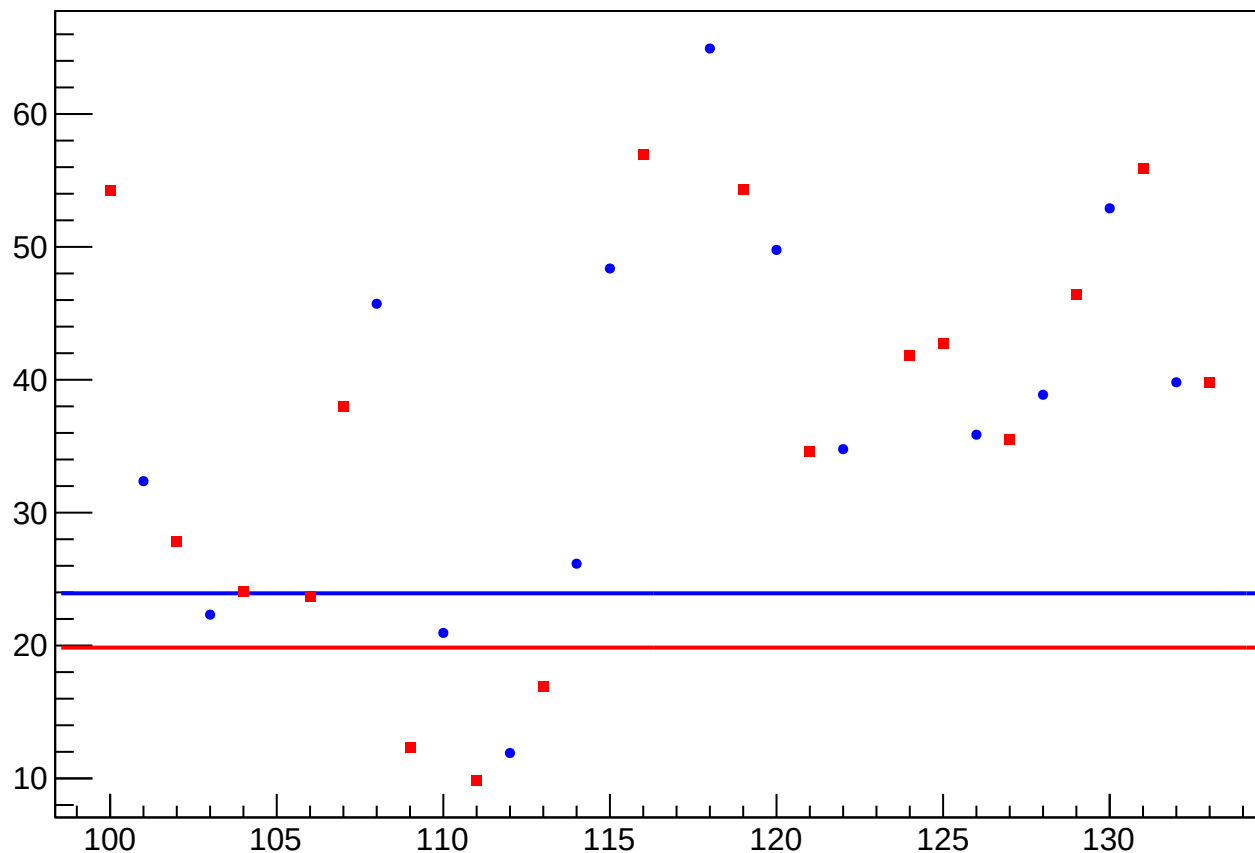
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.007  $\chi^2$ /NDF: 28.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 23.931+/-0.008  $\chi^2/\text{NDF}$ : 2450898.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.845+/-0.007  $\chi^2/\text{NDF}$ : 3377956.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

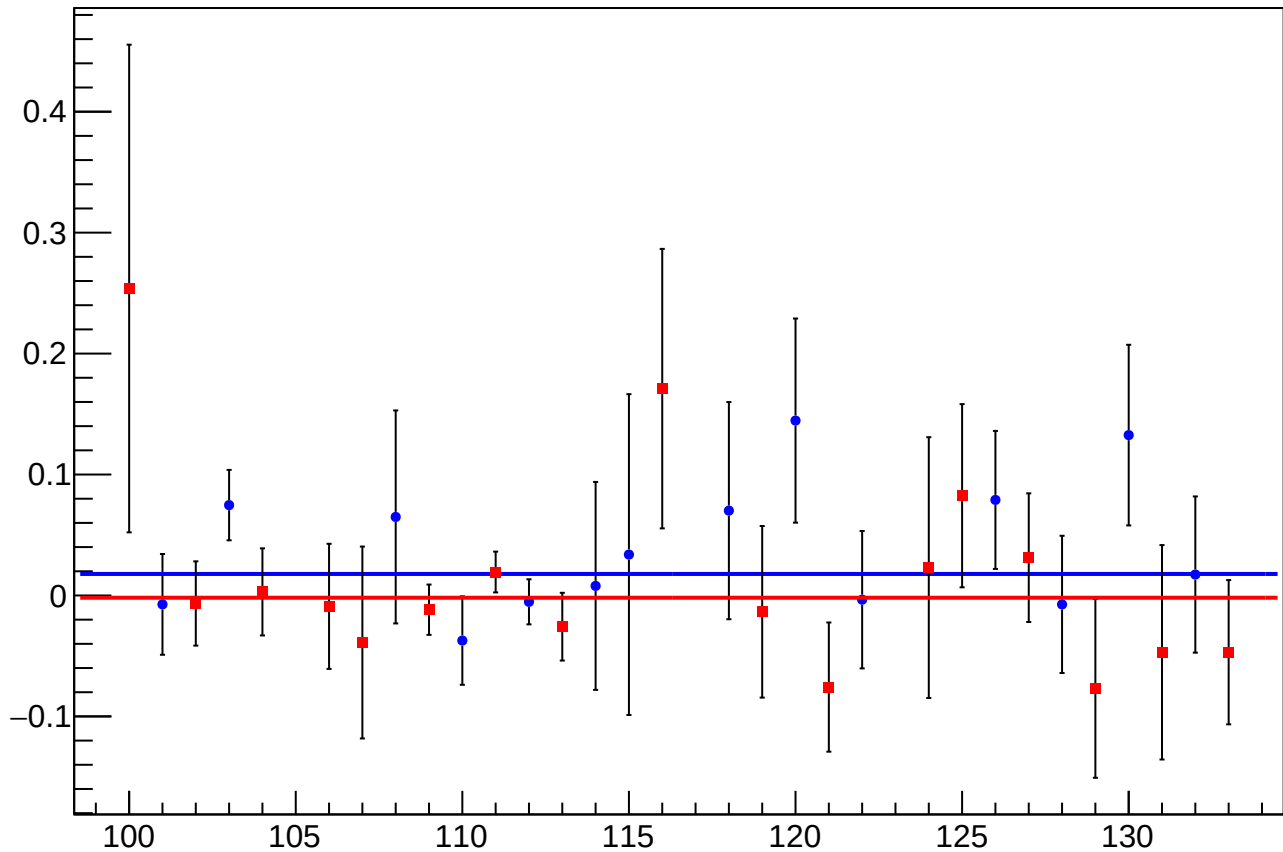
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.469+/-0.005  $\chi^2/\text{NDF}$ : 5976029.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam5\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.018 $\pm$ 0.012  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.002 $\pm$ 0.009  $\chi^2$ /NDF: 12.1/16

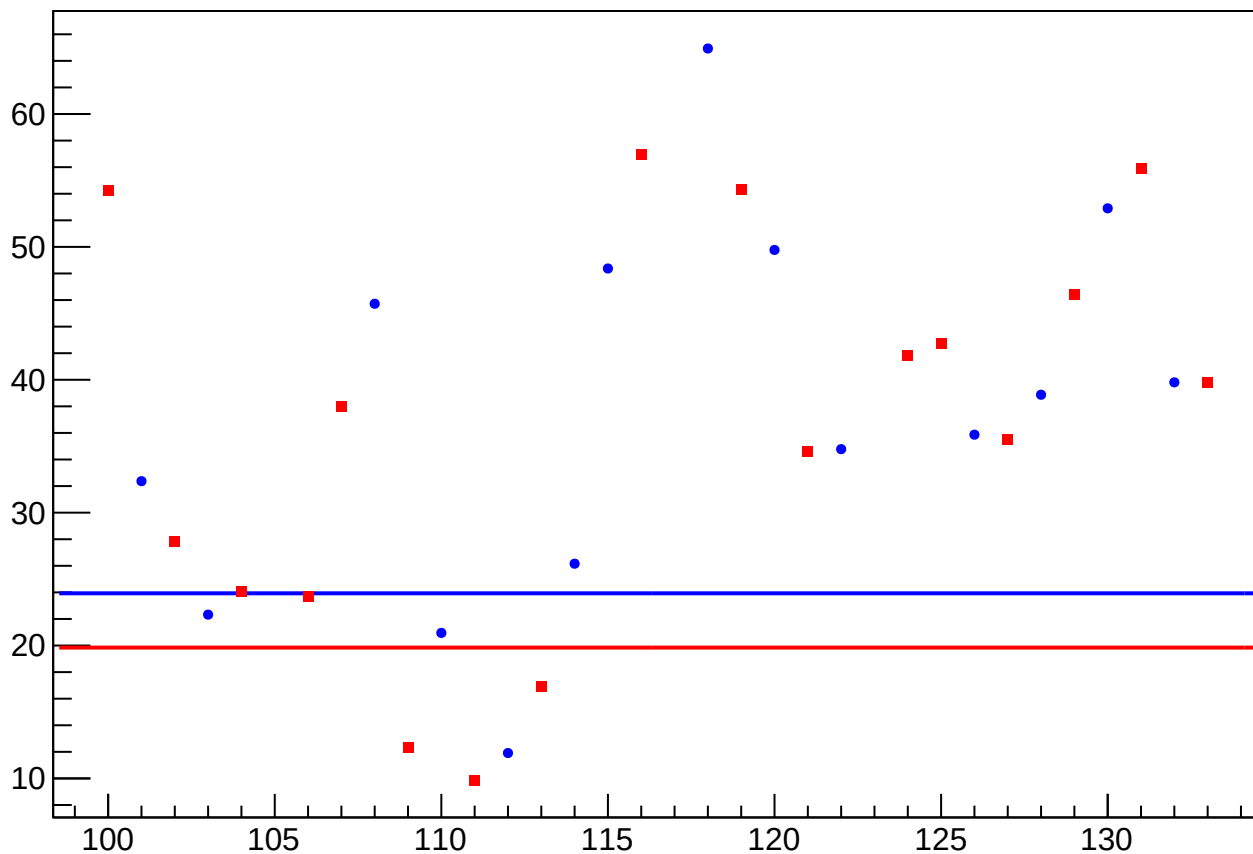
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.007  $\chi^2$ /NDF: 28.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 23.931+/-0.008  $\chi^2/\text{NDF}$ : 2450898.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.845+/-0.007  $\chi^2/\text{NDF}$ : 3377956.9/16

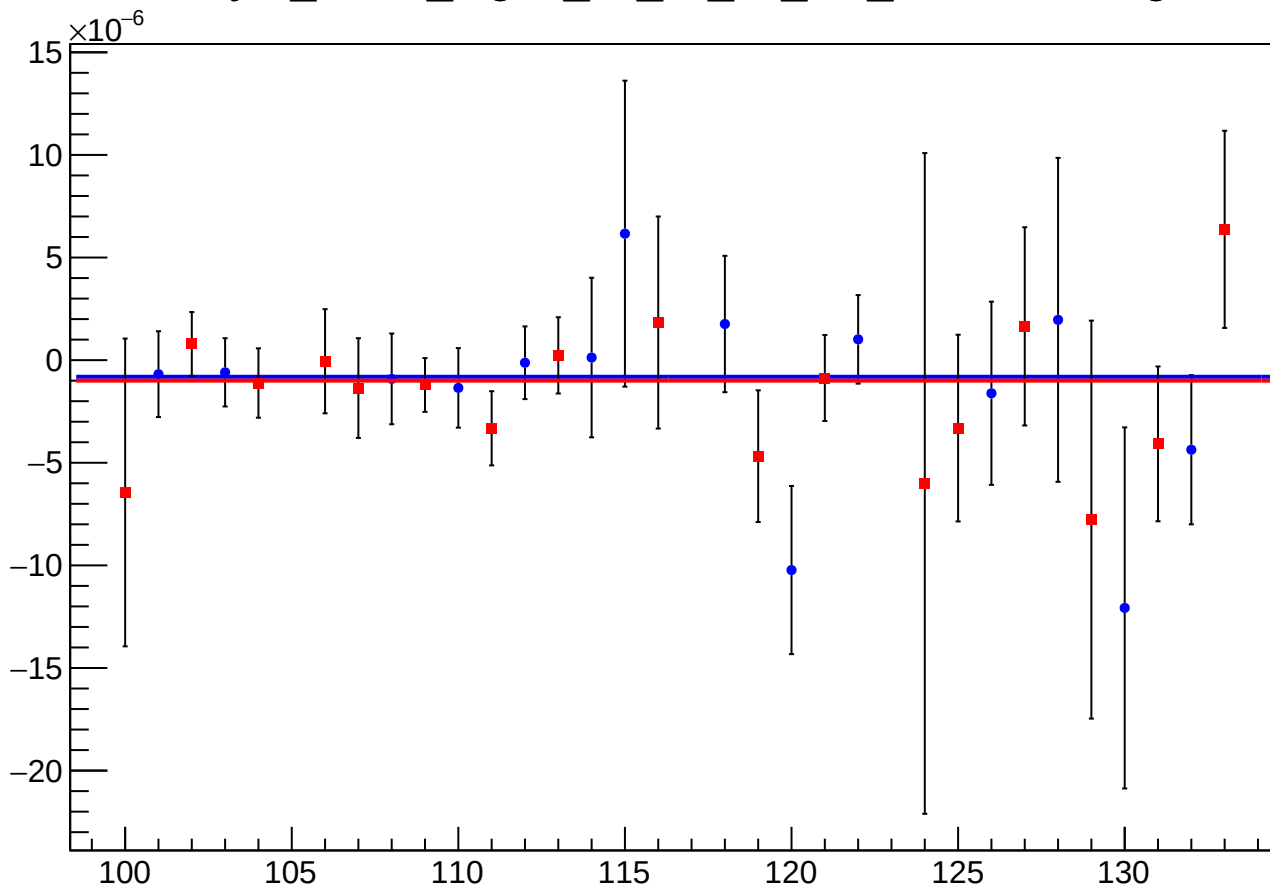
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.469+/-0.005  $\chi^2/\text{NDF}$ : 5976029.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 10.5/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 9.9/16

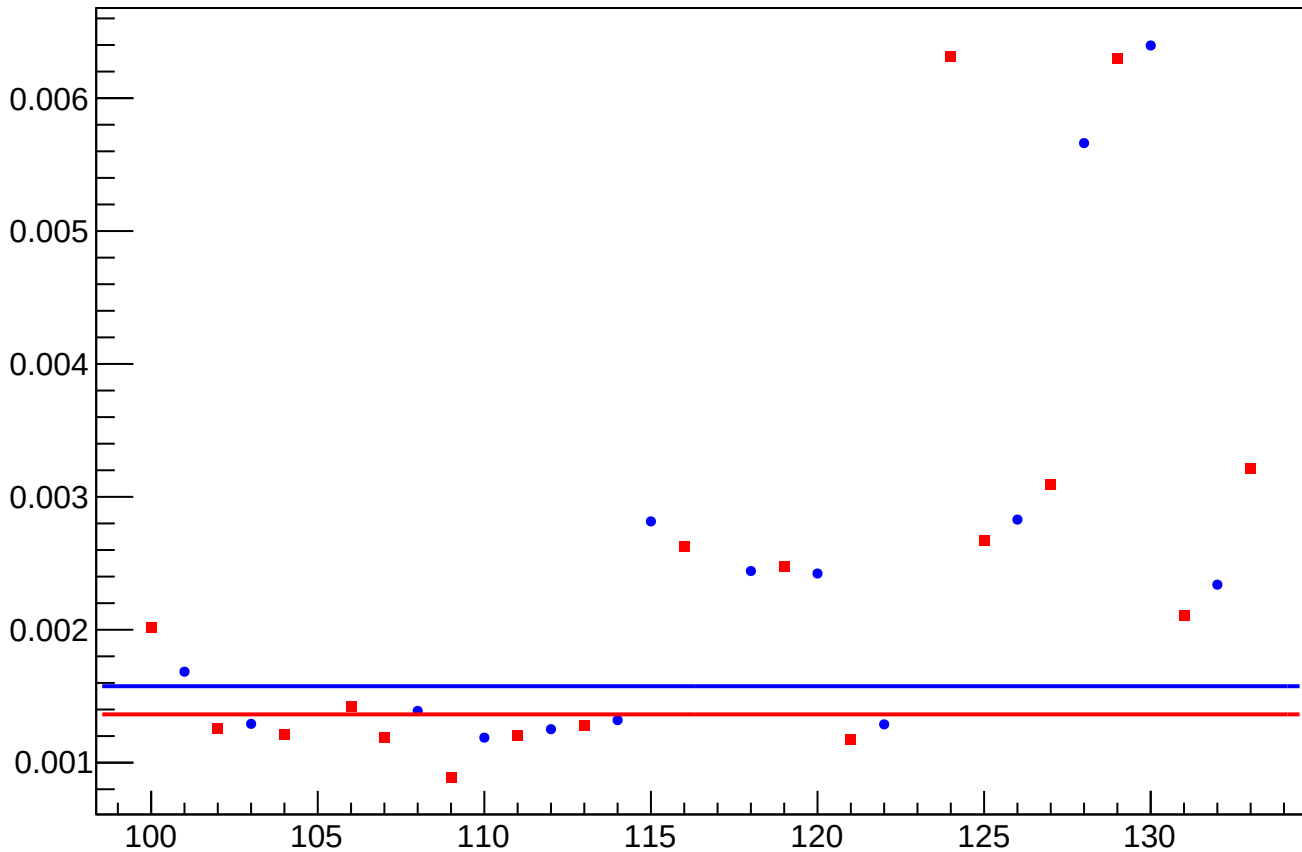
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 20.5/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 1927965.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 2213899.3/16

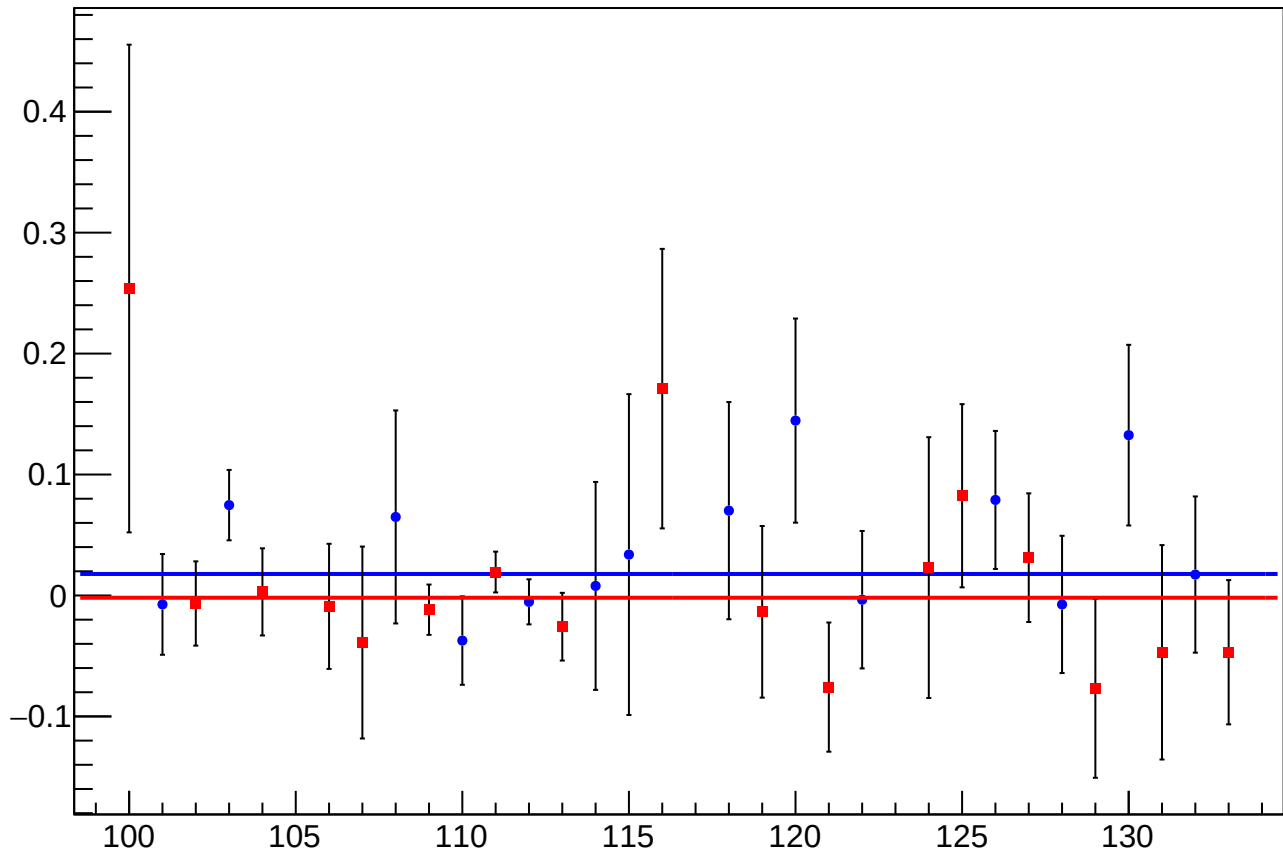
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 4247176.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam5\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.018 $\pm$ 0.012  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.002 $\pm$ 0.009  $\chi^2$ /NDF: 12.1/16

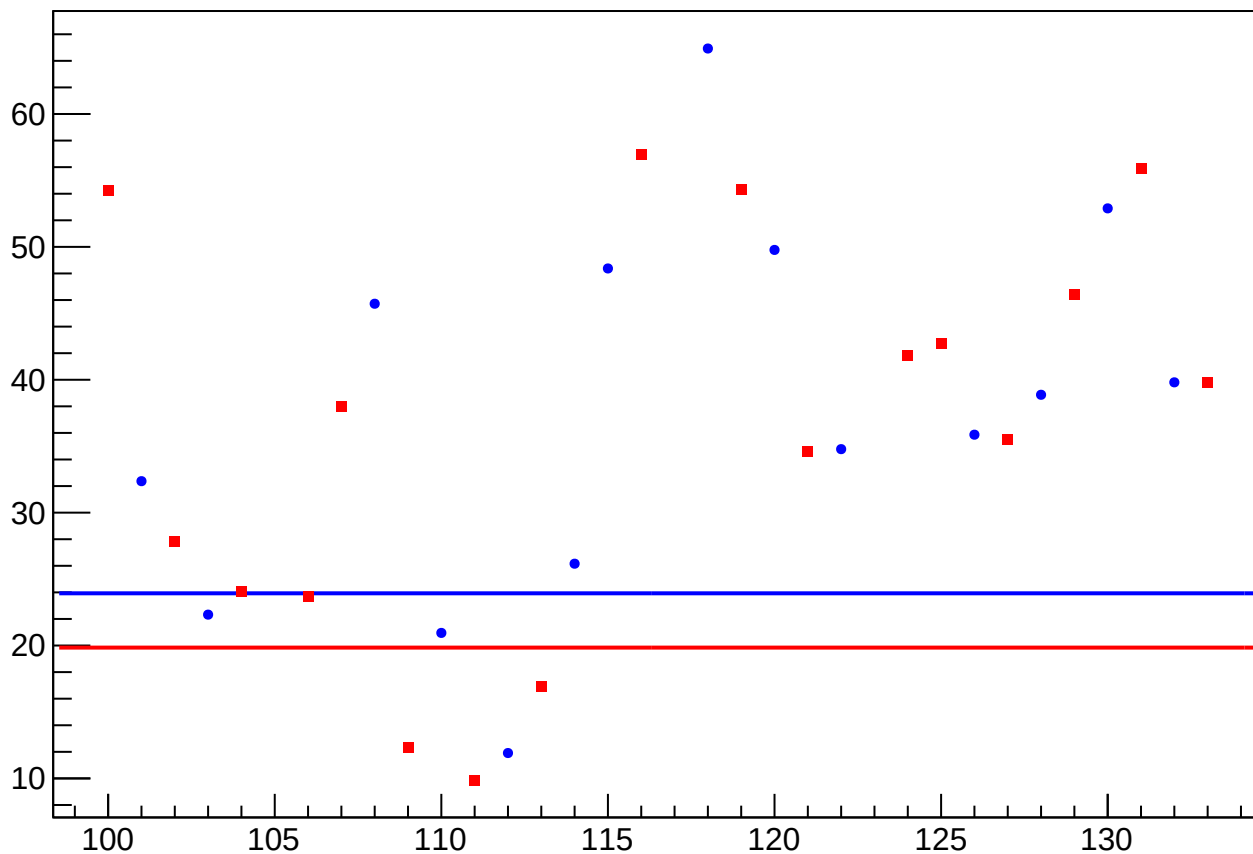
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.007  $\chi^2$ /NDF: 28.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 23.930+/-0.008  $\chi^2/\text{NDF}$ : 2450816.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.844+/-0.007  $\chi^2/\text{NDF}$ : 3377939.9/16

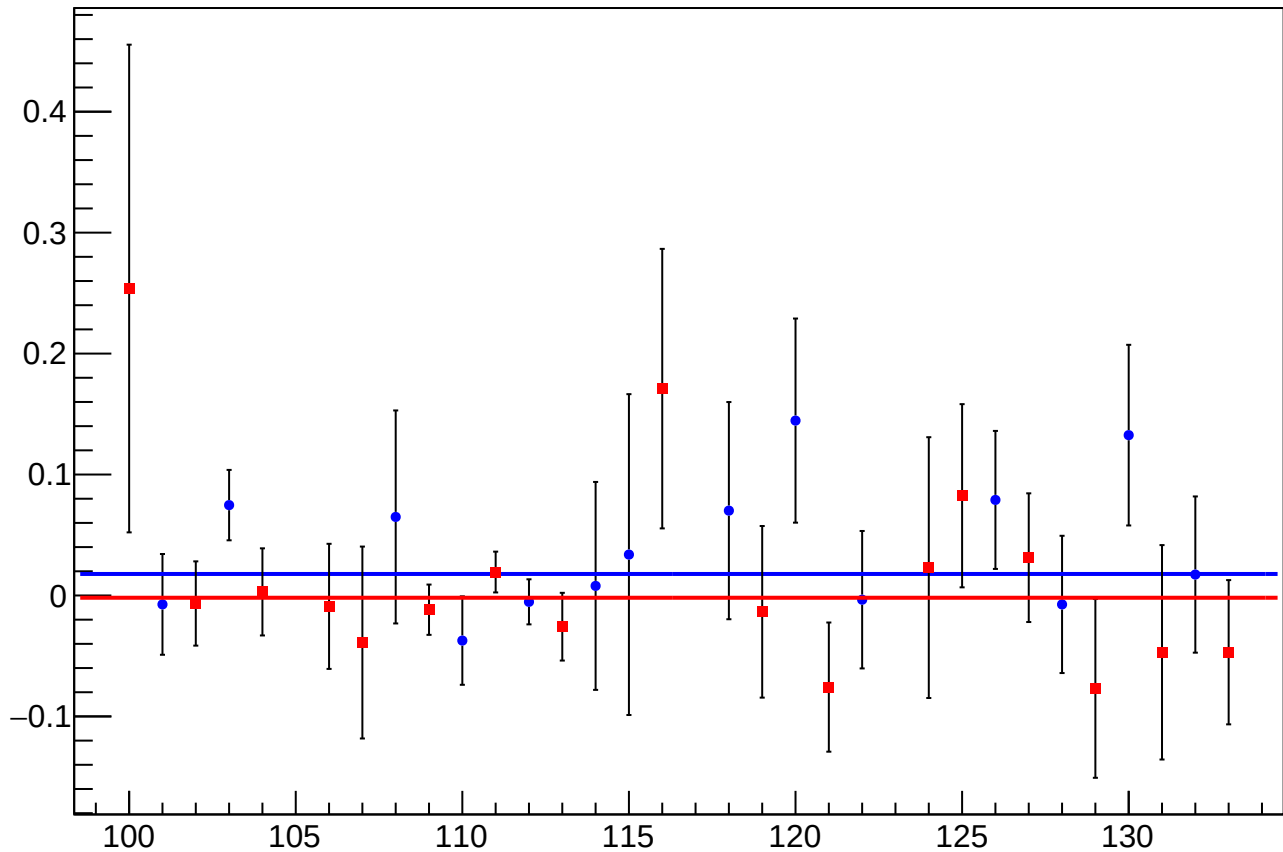
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.469+/-0.005  $\chi^2/\text{NDF}$ : 5975943.7/30

- 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: 0.018 $\pm$ 0.012  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.002 $\pm$ 0.009  $\chi^2$ /NDF: 12.1/16

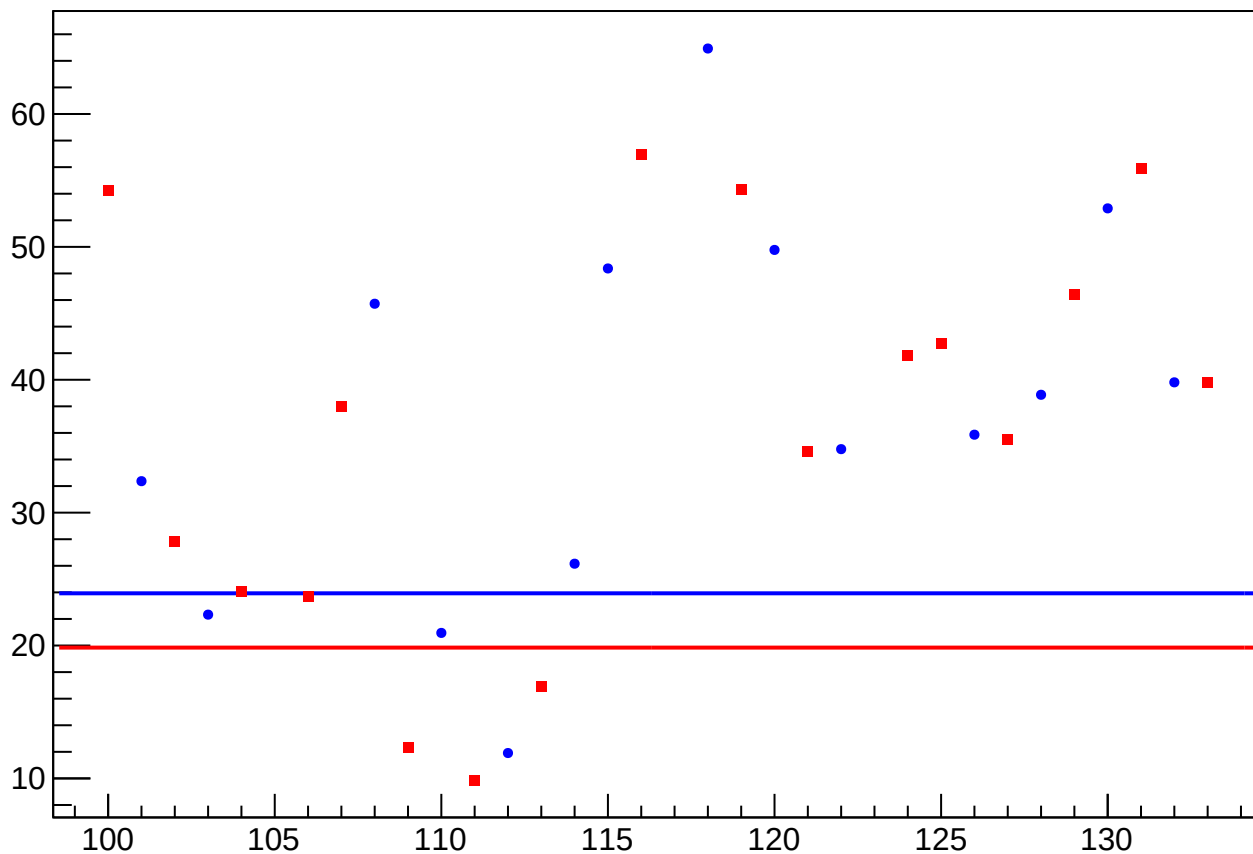
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.007  $\chi^2$ /NDF: 28.6/30

- 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: 23.930+/-0.008  $\chi^2/\text{NDF}$ : 2450816.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.844+/-0.007  $\chi^2/\text{NDF}$ : 3377939.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

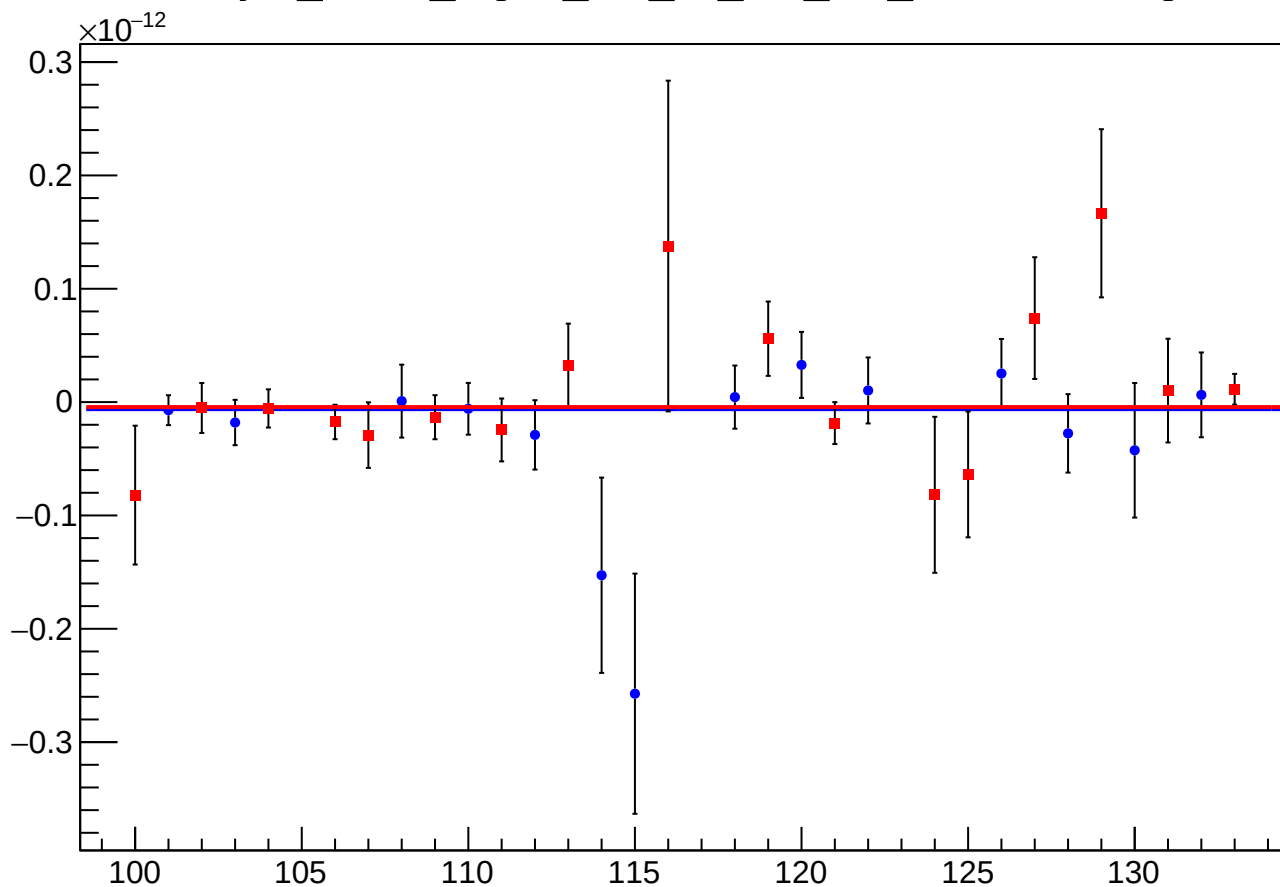
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.469+/-0.005  $\chi^2/\text{NDF}$ : 5975943.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam5\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 21.0/16

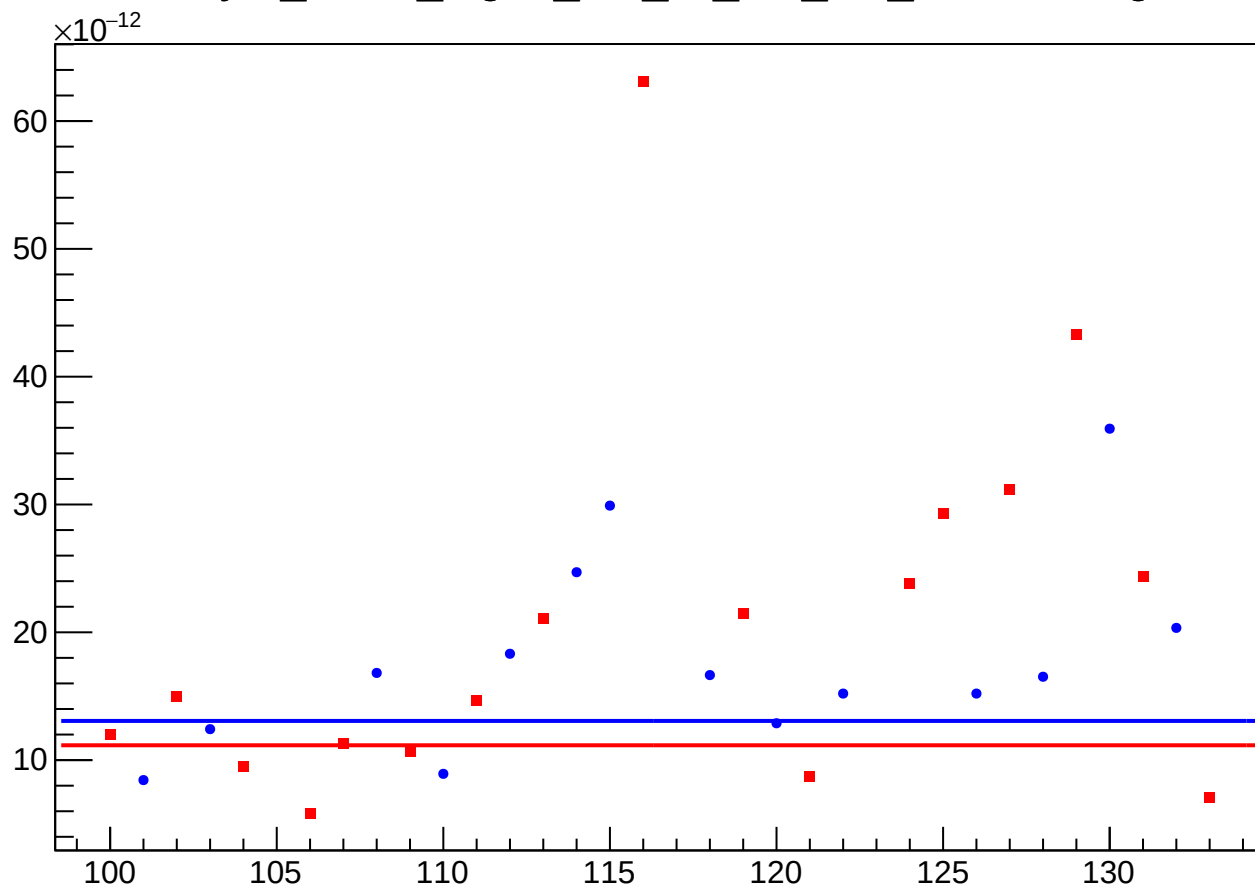
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 34.7/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 933557.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2274970.4/16

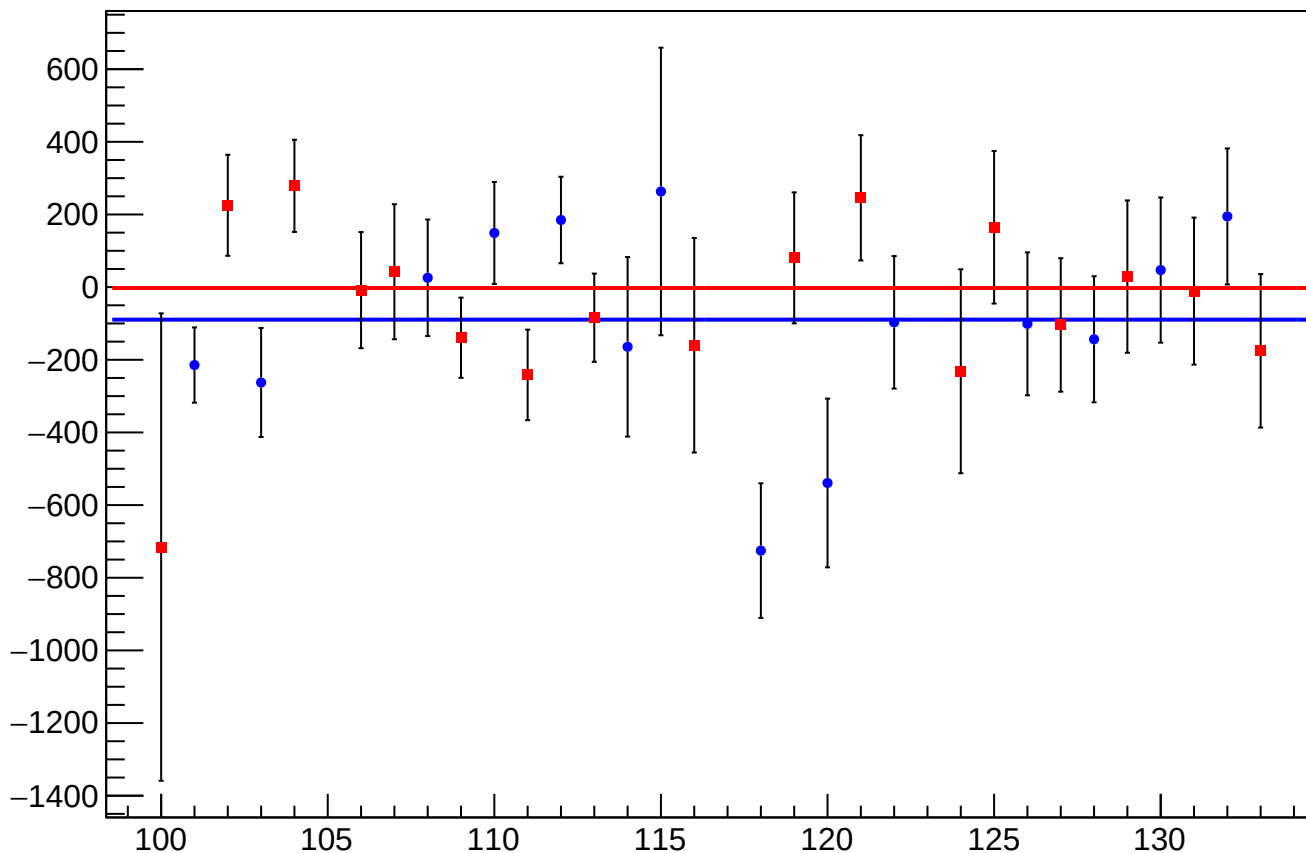
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3289315.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_mean vs Slug



Right In:  $-89.490 \pm 44.244$   $\chi^2/\text{NDF}$ : 30.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.367 \pm 40.522$   $\chi^2/\text{NDF}$ : 19.4/16

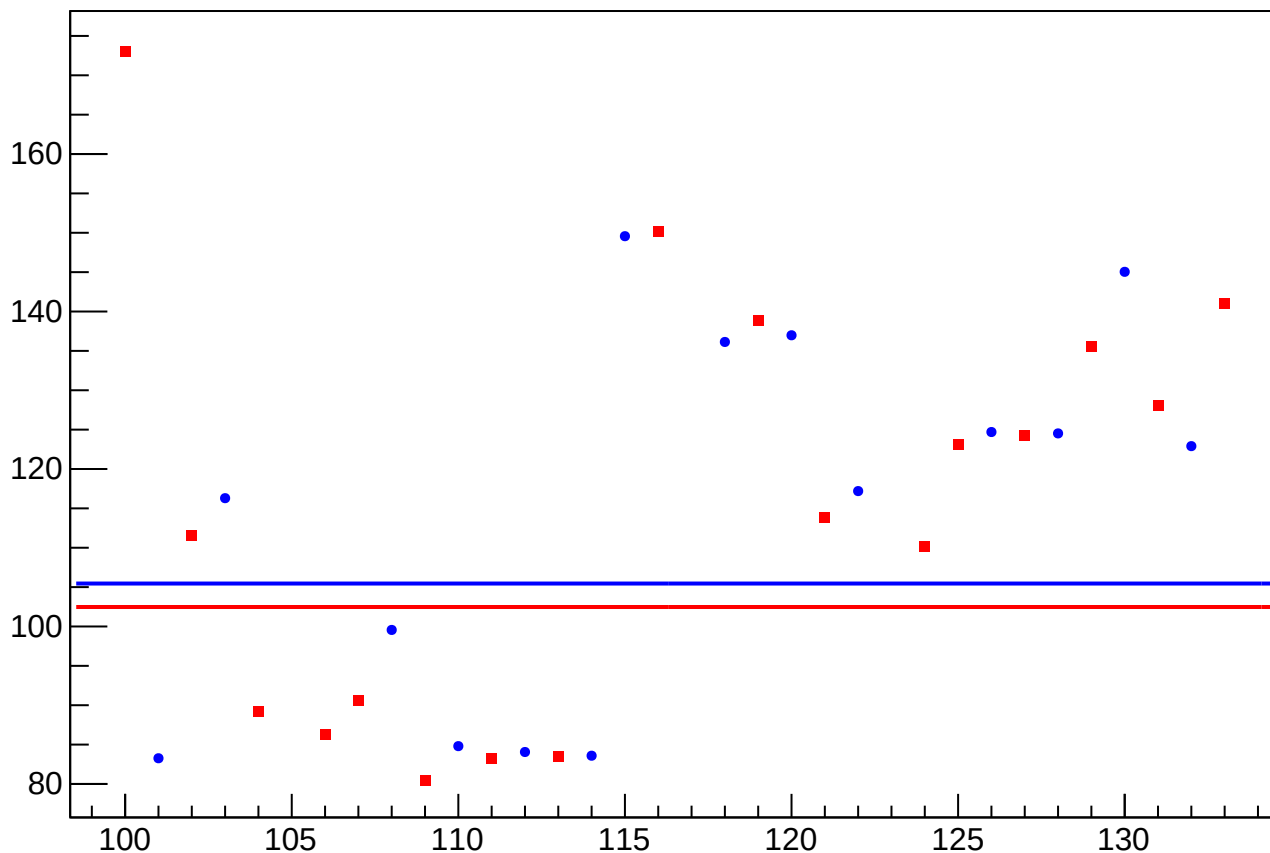
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-42.110 \pm 29.883$   $\chi^2/\text{NDF}$ : 52.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_rms vs Slug



Right In: 105.454+/-0.031  $\chi^2/\text{NDF}$ : 492446.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 102.474+/-0.029  $\chi^2/\text{NDF}$ : 598839.6/16

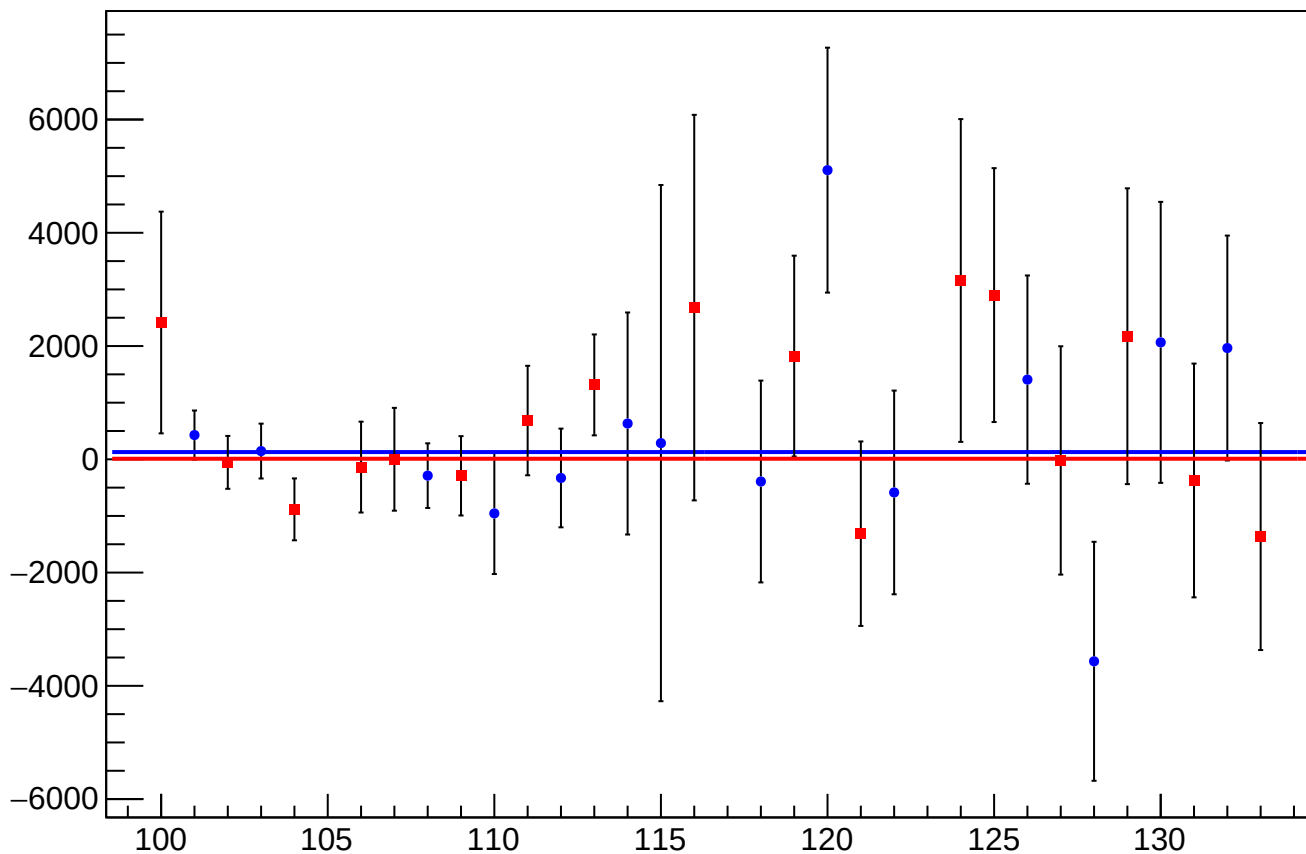
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 103.833+/-0.021  $\chi^2/\text{NDF}$ : 1096222.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_reg\_correction\_mean vs Slug



Right In: 127.896 $\pm$ 242.997  $\chi^2$ /NDF: 12.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 9.984 $\pm$ 240.341  $\chi^2$ /NDF: 13.4/16

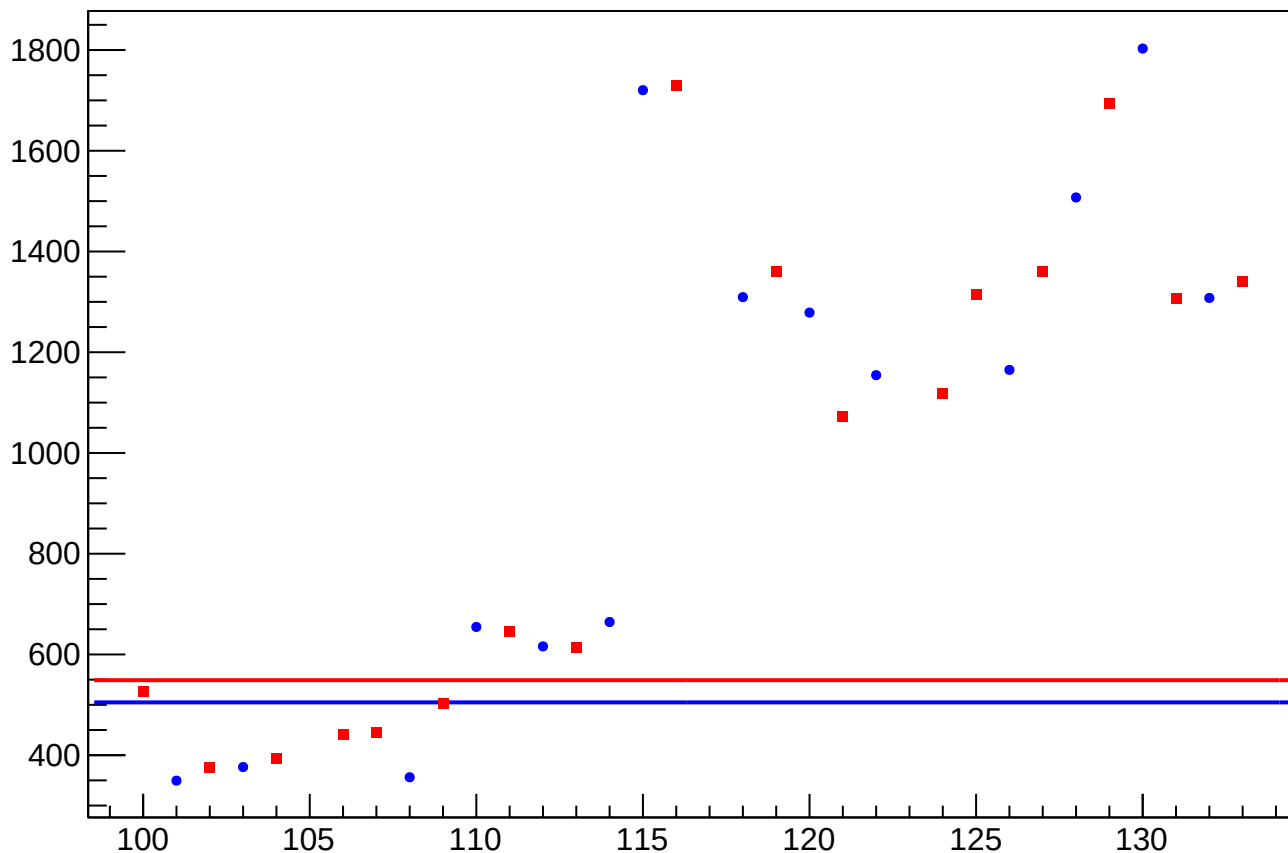
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 68.292 $\pm$ 170.878  $\chi^2$ /NDF: 26.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_reg\_correction\_rms vs Slug



Right In: 504.830+/-0.172  $\chi^2/\text{NDF}$ : 3269030.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 548.908+/-0.170  $\chi^2/\text{NDF}$ : 3010323.5/16

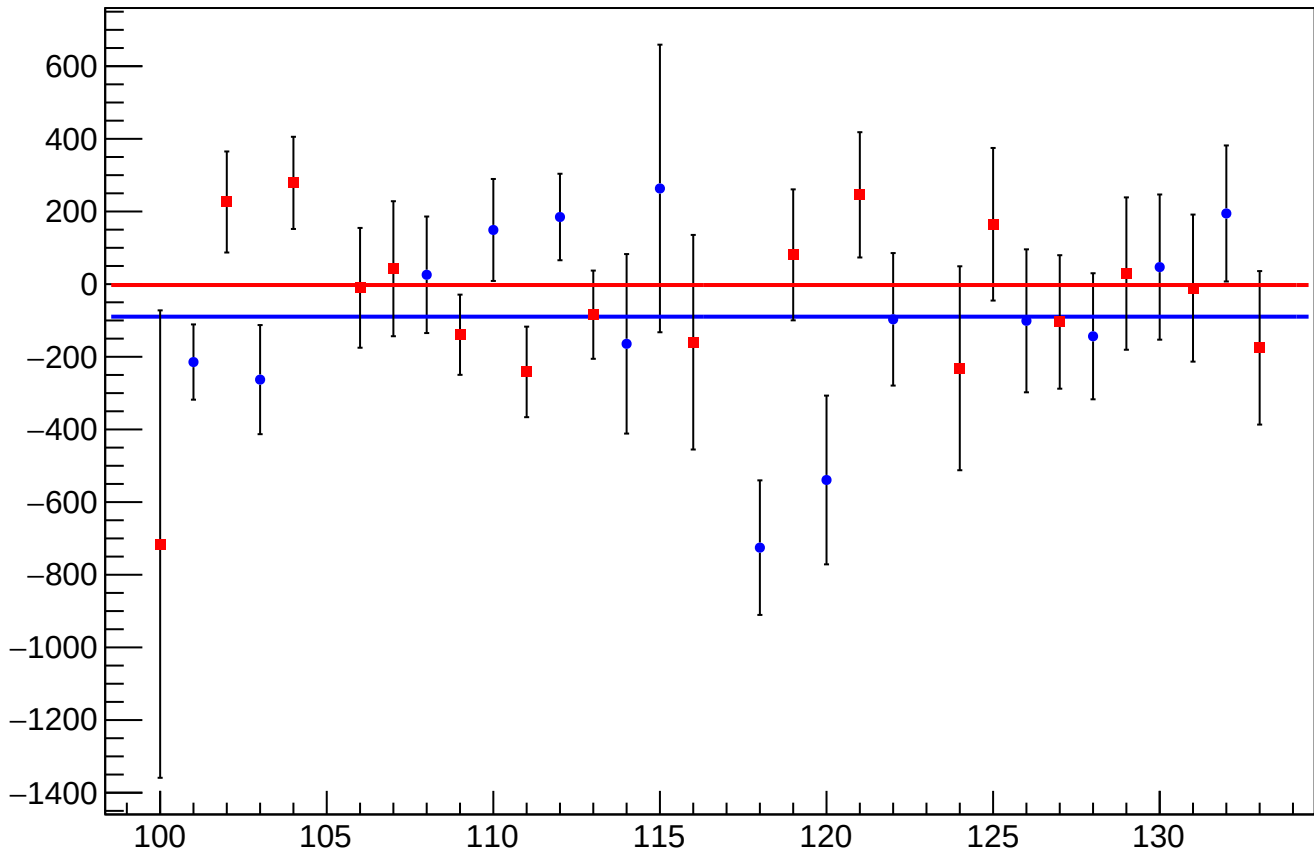
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 527.111+/-0.121  $\chi^2/\text{NDF}$ : 6312618.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam6\_mean vs Slug



Right In:  $-89.525 \pm 44.244$   $\chi^2/\text{NDF}$ : 30.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.417 \pm 40.601$   $\chi^2/\text{NDF}$ : 19.4/16

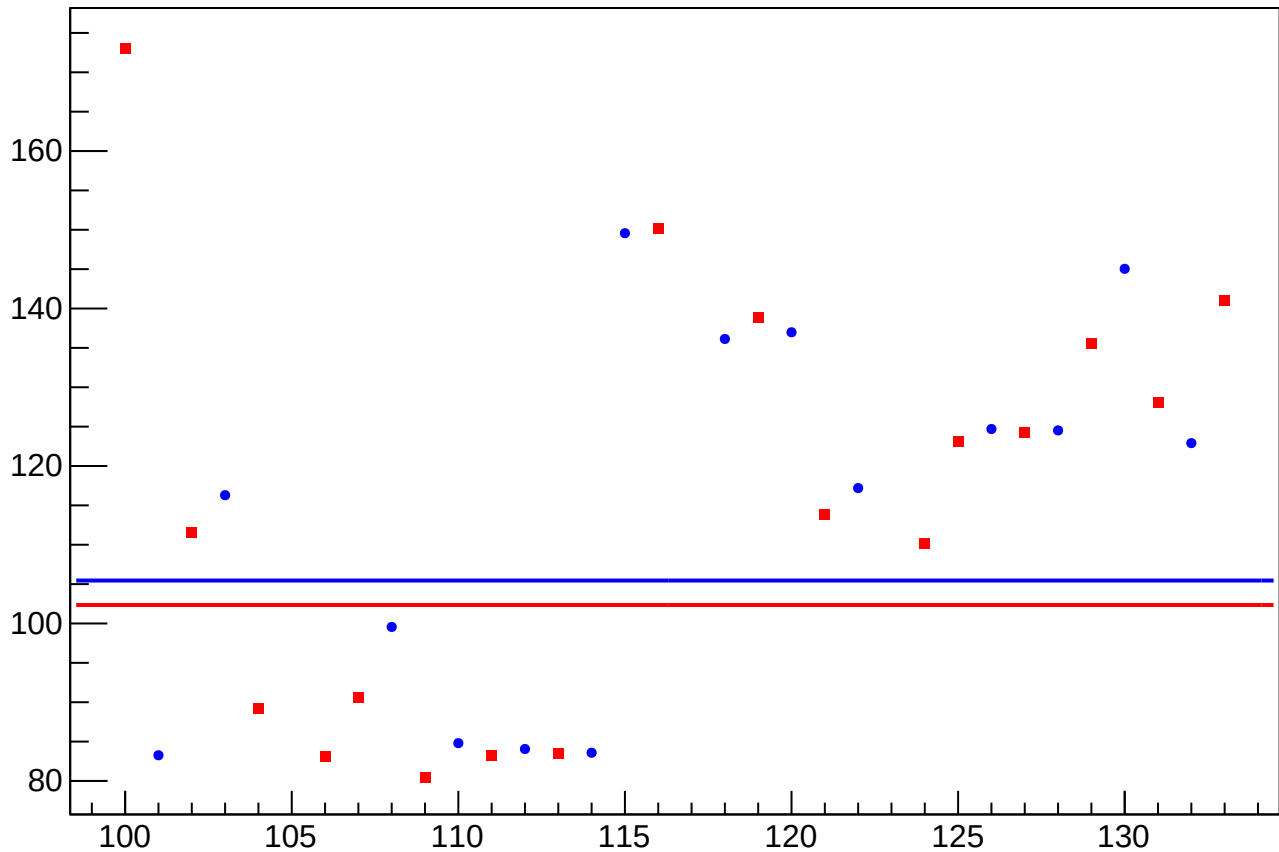
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-42.238 \pm 29.915$   $\chi^2/\text{NDF}$ : 52.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam6\_rms vs Slug



Right In:  $105.454 \pm 0.031$   $\chi^2/\text{NDF}$ : 492448.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $102.347 \pm 0.029$   $\chi^2/\text{NDF}$ : 605918.4/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

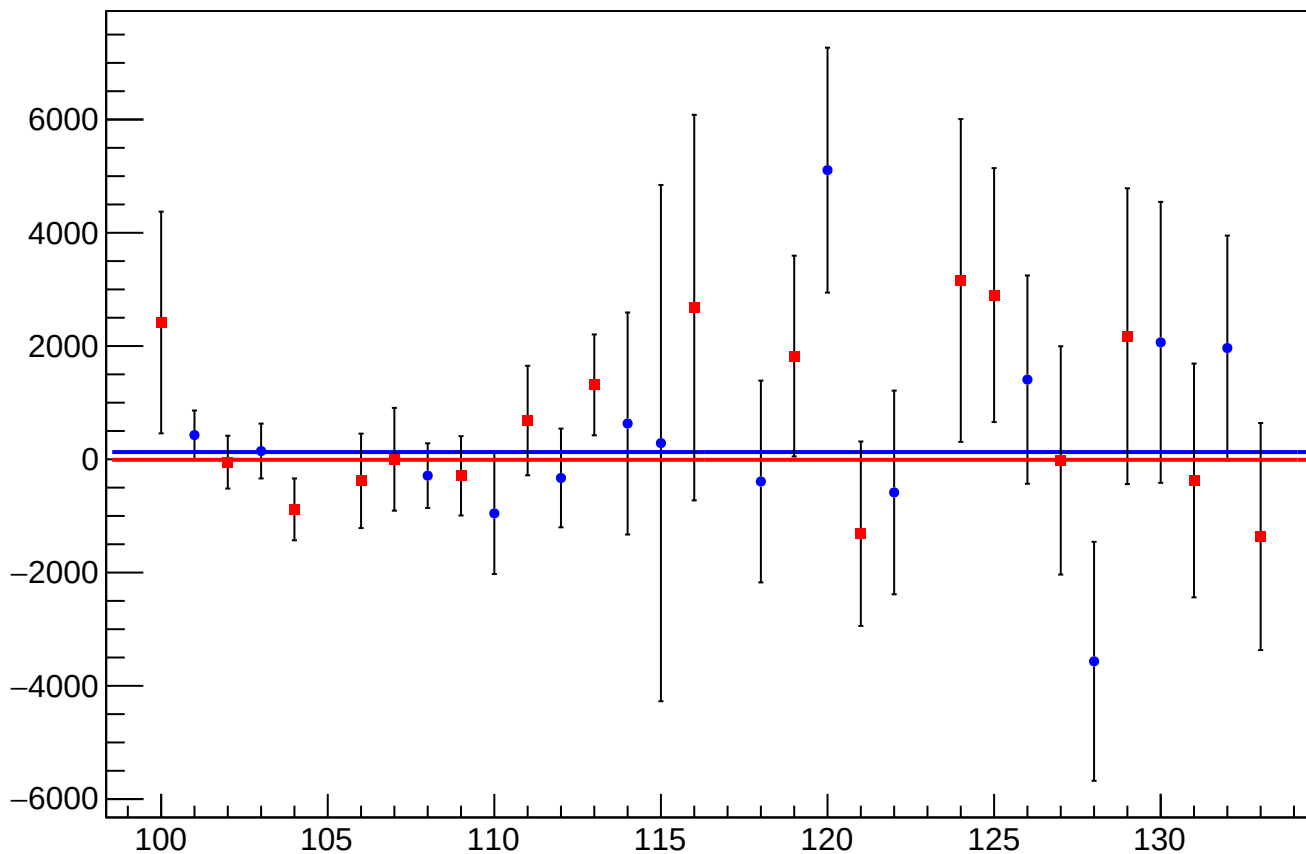
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $103.768 \pm 0.021$   $\chi^2/\text{NDF}$ : 1103719.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam6\_cor\_correction\_mean vs Slug



Right In: 128.060 $\pm$ 242.989  $\chi^2$ /NDF: 12.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.529 $\pm$ 241.036  $\chi^2$ /NDF: 13.6/16

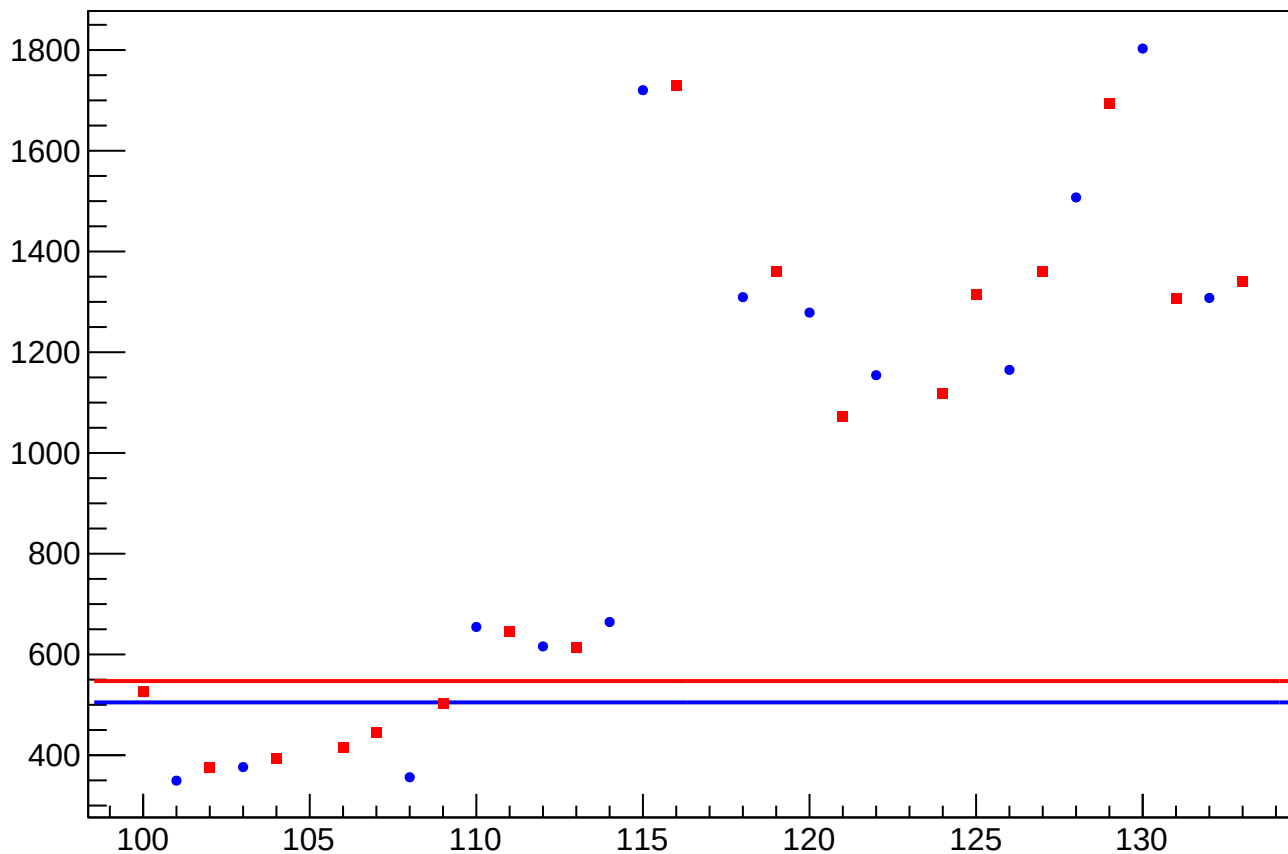
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 59.214 $\pm$ 171.125  $\chi^2$ /NDF: 26.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_cor\_correction\_rms vs Slug



Right In: 504.808+/-0.172  $\chi^2/\text{NDF}$ : 3269181.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 547.138+/-0.170  $\chi^2/\text{NDF}$ : 3028376.0/16

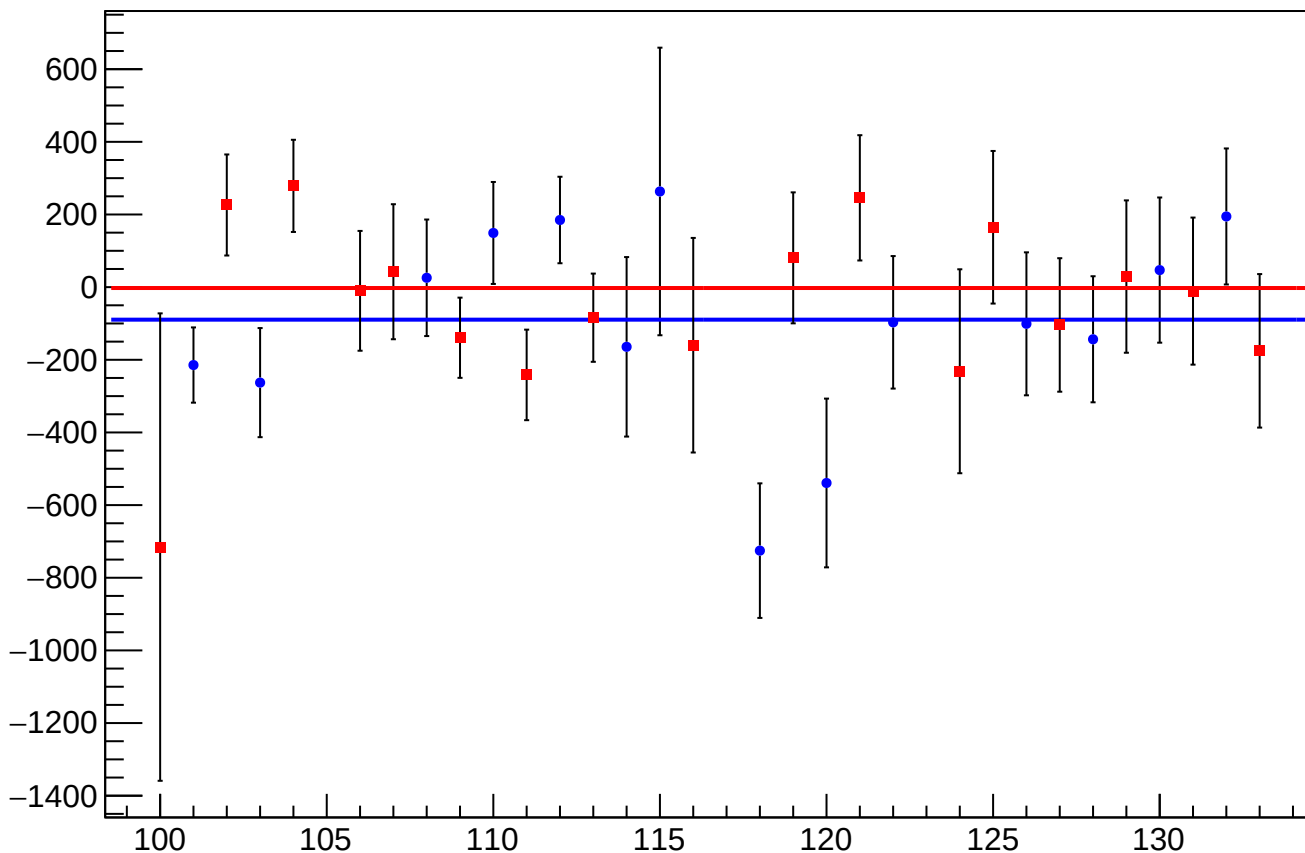
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 526.144+/-0.121  $\chi^2/\text{NDF}$ : 6328149.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam6\_mean vs Slug



Right In: -89.525+/-44.244  $\chi^2$ /NDF: 30.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2.417+/-40.601  $\chi^2$ /NDF: 19.4/16

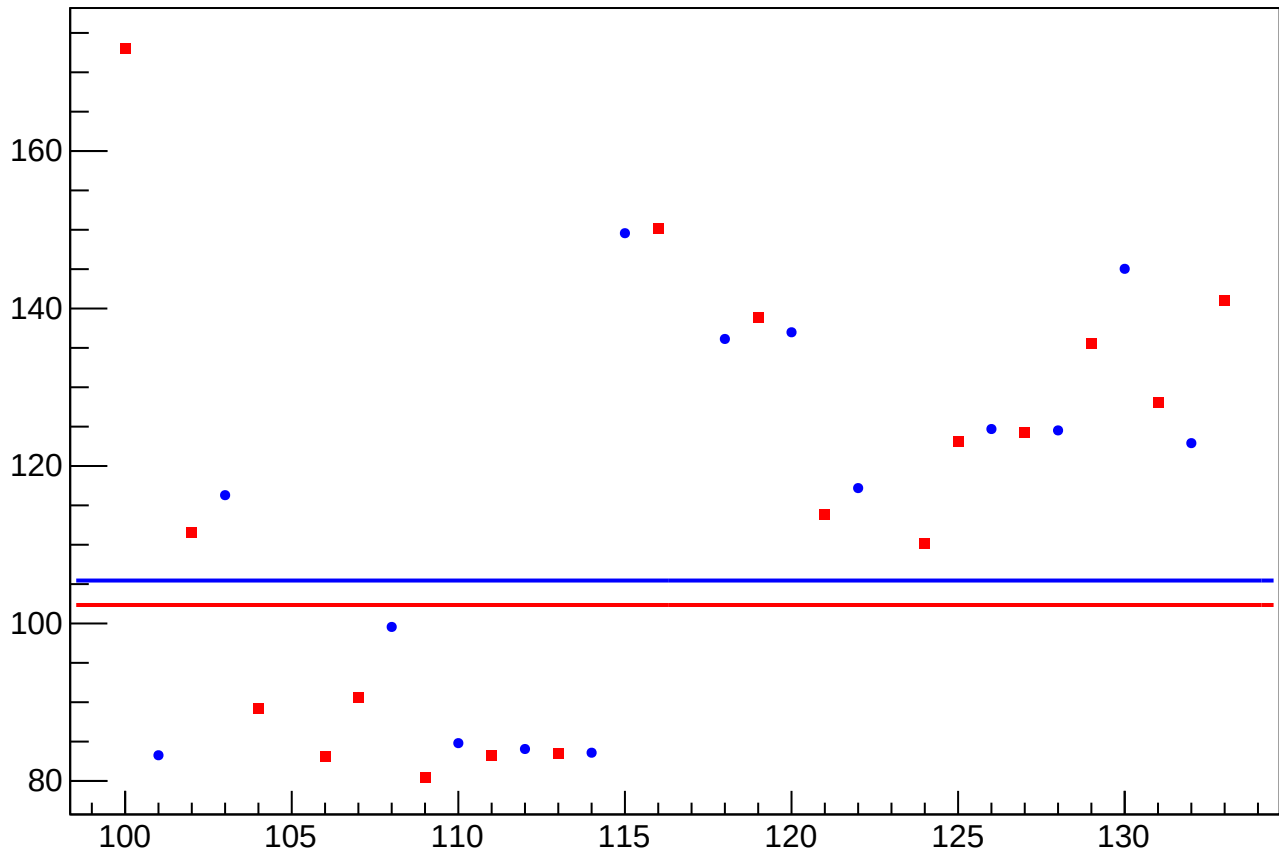
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -42.238+/-29.915  $\chi^2$ /NDF: 52.3/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam6\_rms vs Slug



Right In: 105.454 $\pm$ 0.031  $\chi^2$ /NDF: 492448.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 102.347 $\pm$ 0.029  $\chi^2$ /NDF: 605918.4/16

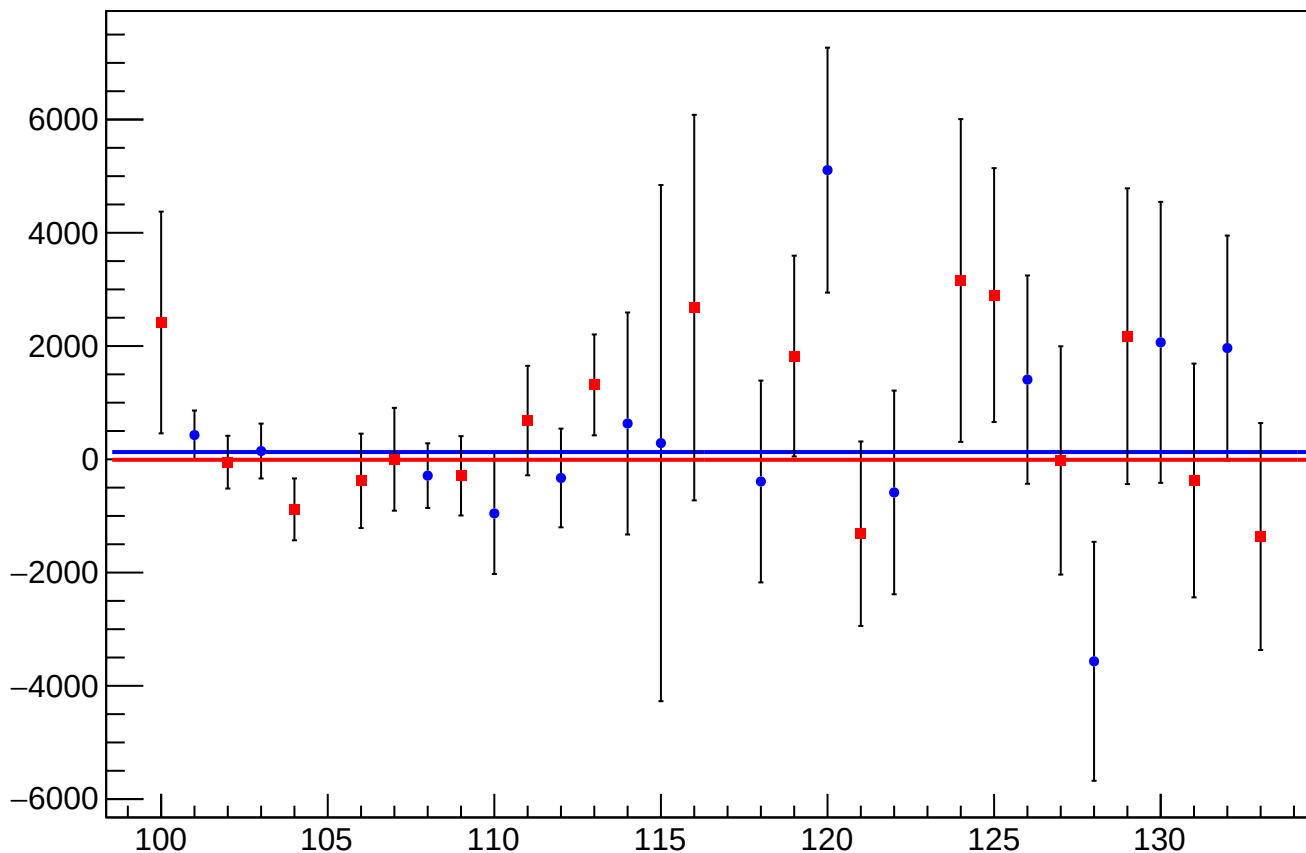
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 103.768 $\pm$ 0.021  $\chi^2$ /NDF: 1103719.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_eigen\_cor\_correction\_mean vs Slug



Right In: 128.060 $\pm$ 242.989  $\chi^2$ /NDF: 12.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.529 $\pm$ 241.036  $\chi^2$ /NDF: 13.6/16

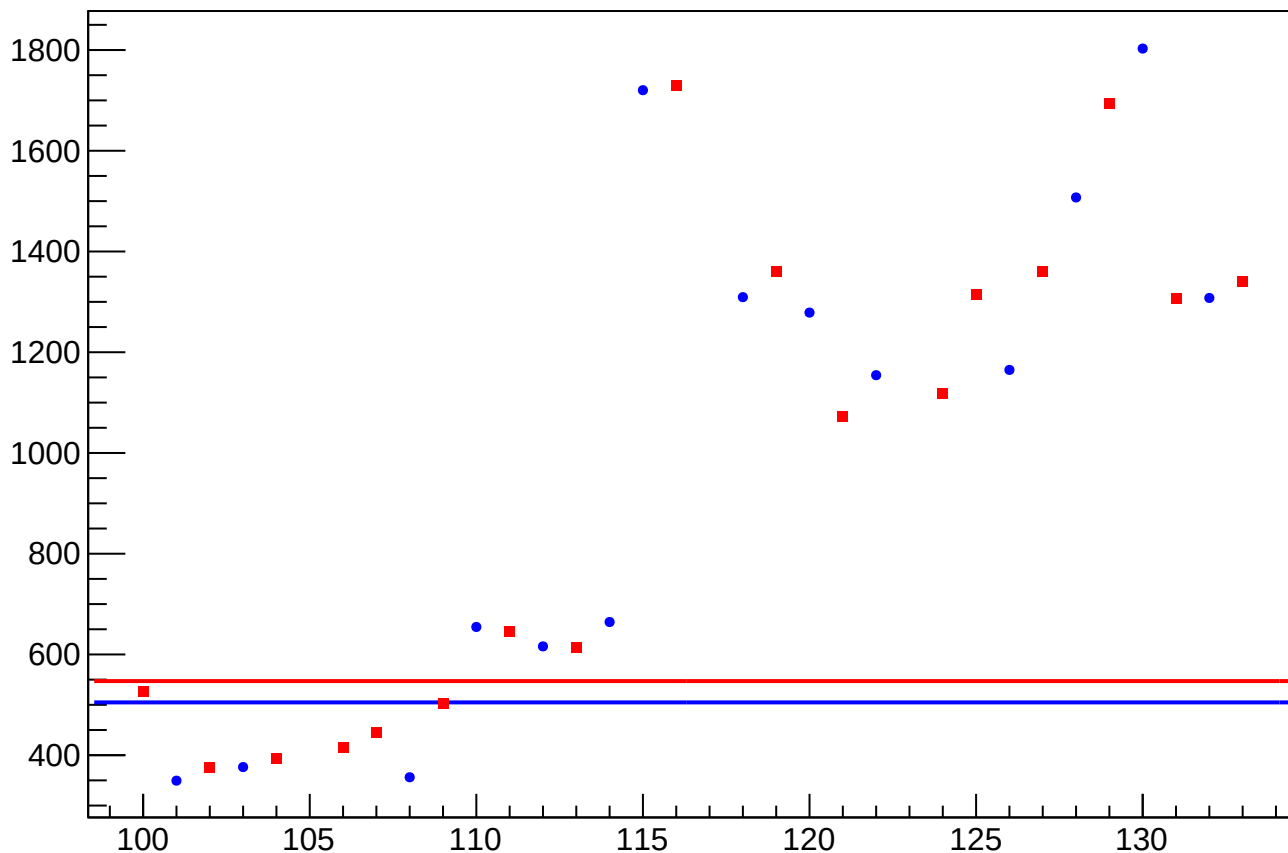
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 59.214 $\pm$ 171.125  $\chi^2$ /NDF: 26.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_eigen\_cor\_correction\_rms vs Slug



Right In: 504.808+/-0.172  $\chi^2/\text{NDF}$ : 3269181.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 547.138+/-0.170  $\chi^2/\text{NDF}$ : 3028376.0/16

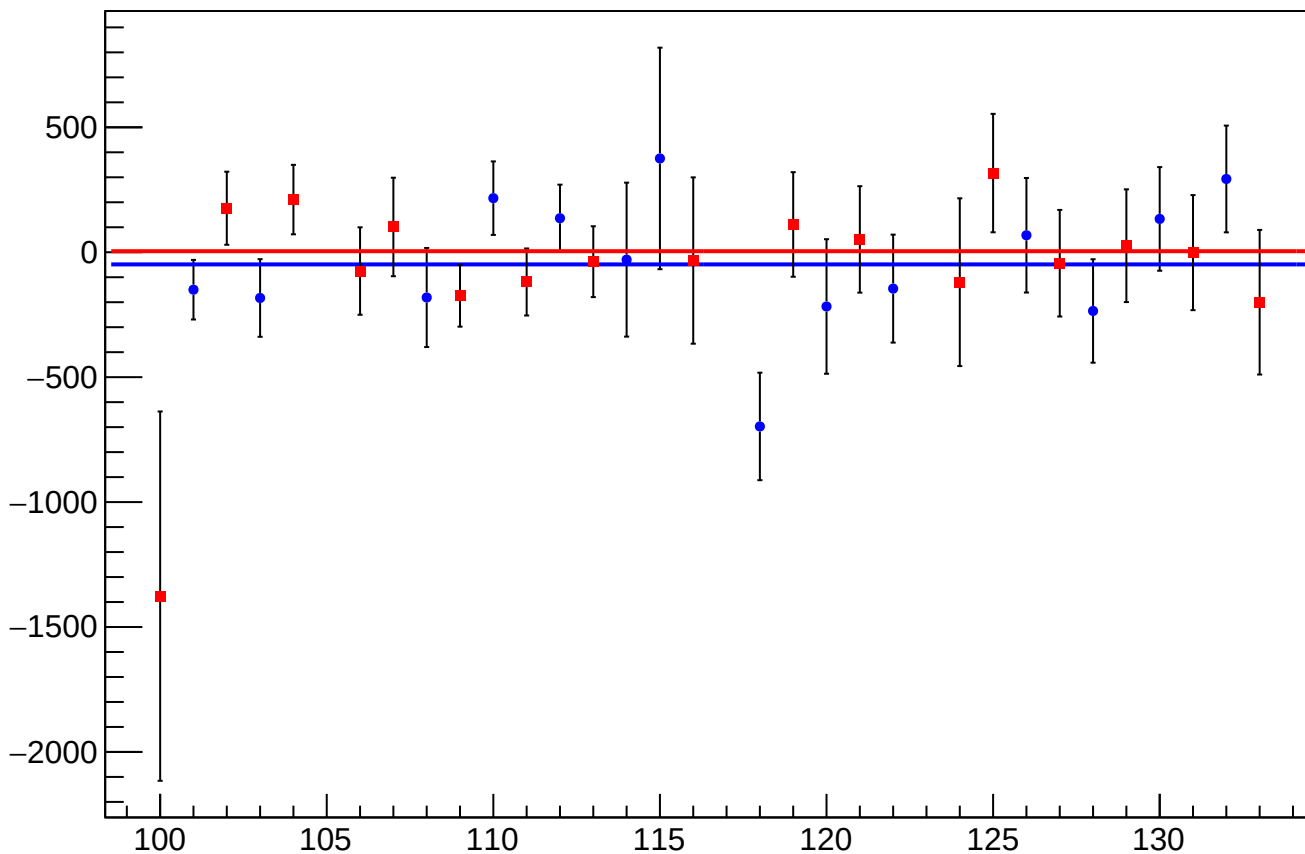
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 526.144+/-0.121  $\chi^2/\text{NDF}$ : 6328149.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam6\_mean vs Slug



Right In:  $-48.680 \pm 50.078$   $\chi^2/\text{NDF}$ : 22.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $4.136 \pm 45.536$   $\chi^2/\text{NDF}$ : 13.3/16

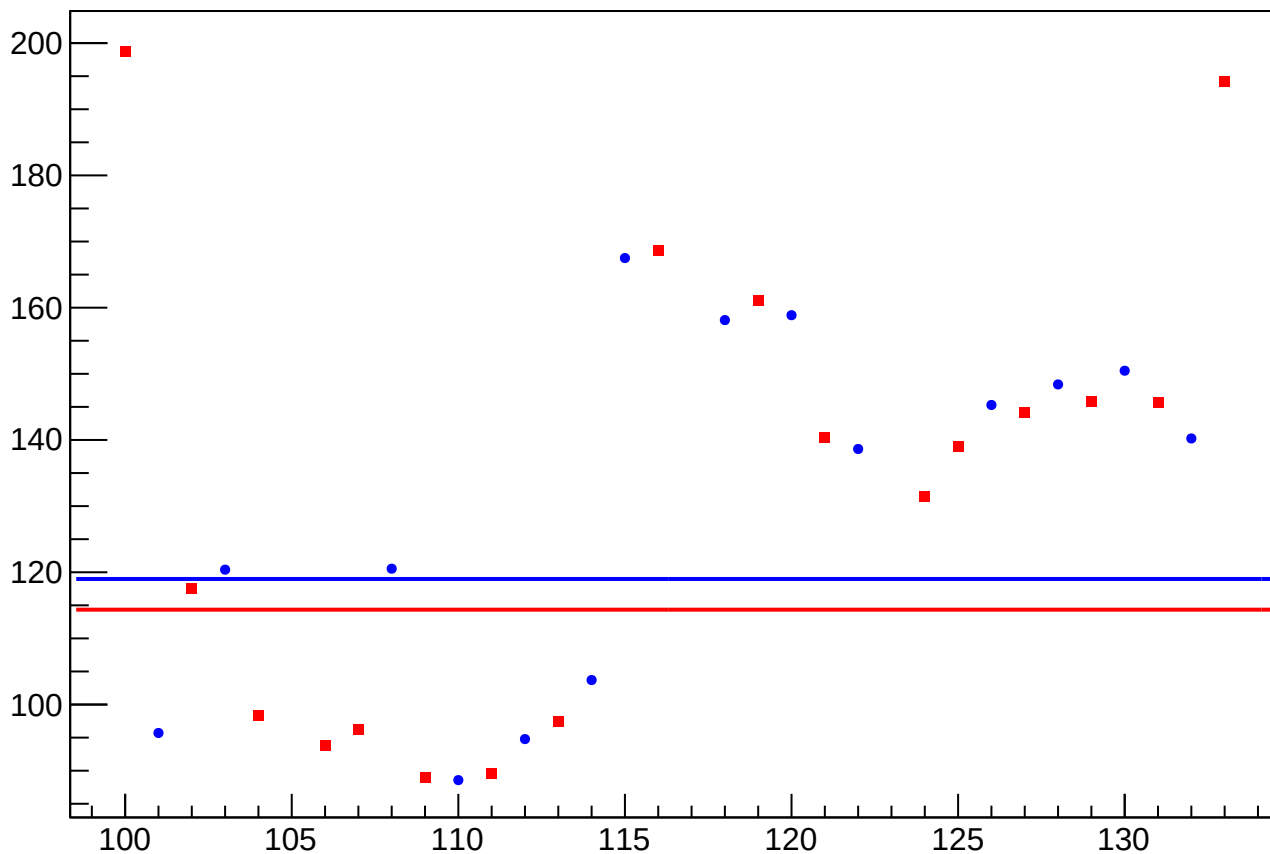
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-19.768 \pm 33.690$   $\chi^2/\text{NDF}$ : 36.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam6\_rms vs Slug



Right In:  $118.986 \pm 0.035$   $\chi^2/\text{NDF}$ : 514989.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $114.344 \pm 0.032$   $\chi^2/\text{NDF}$ : 755561.8/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

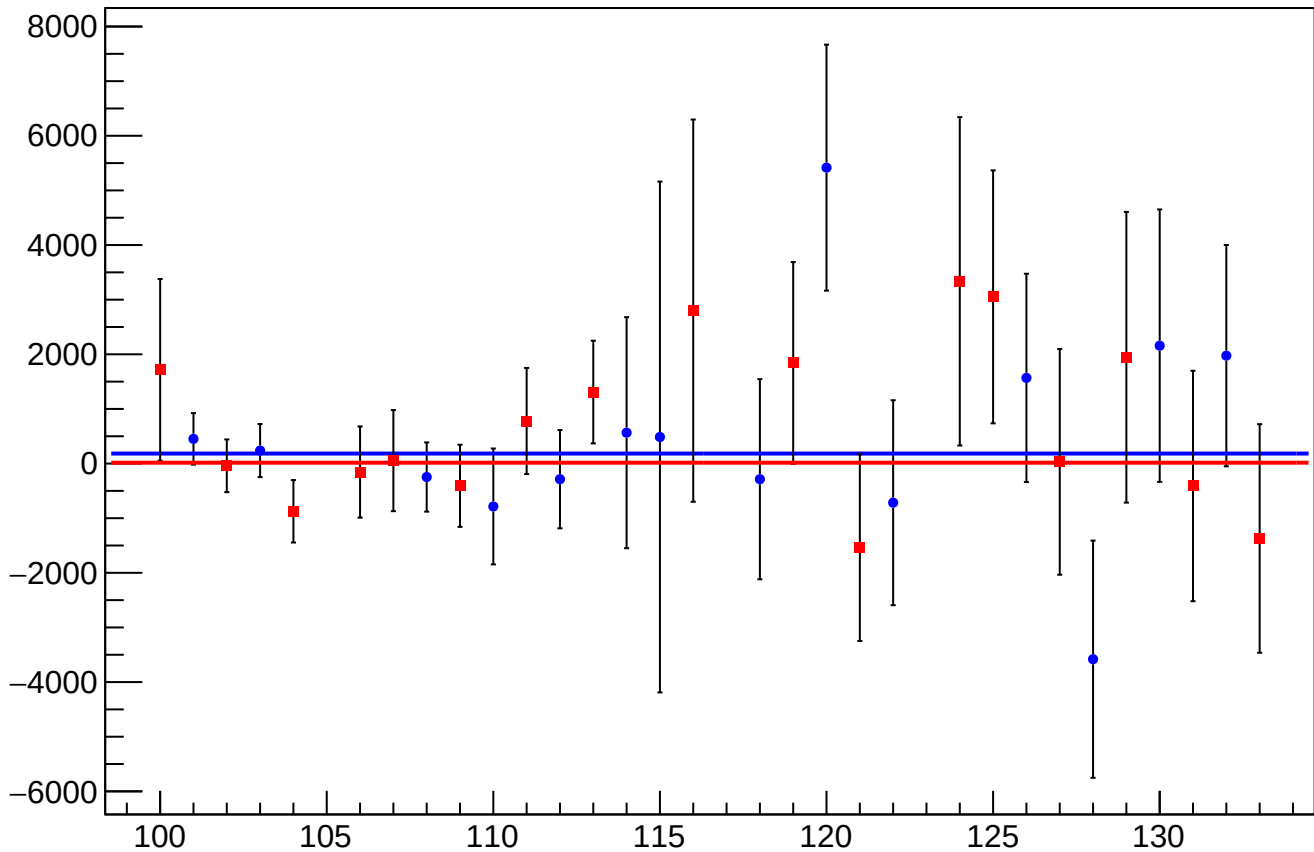
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $116.445 \pm 0.024$   $\chi^2/\text{NDF}$ : 1279955.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam6\_dit\_correction\_mean vs Slug



Right In: 183.360 $\pm$ 255.777  $\chi^2$ /NDF: 12.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 15.907 $\pm$ 249.036  $\chi^2$ /NDF: 12.7/16

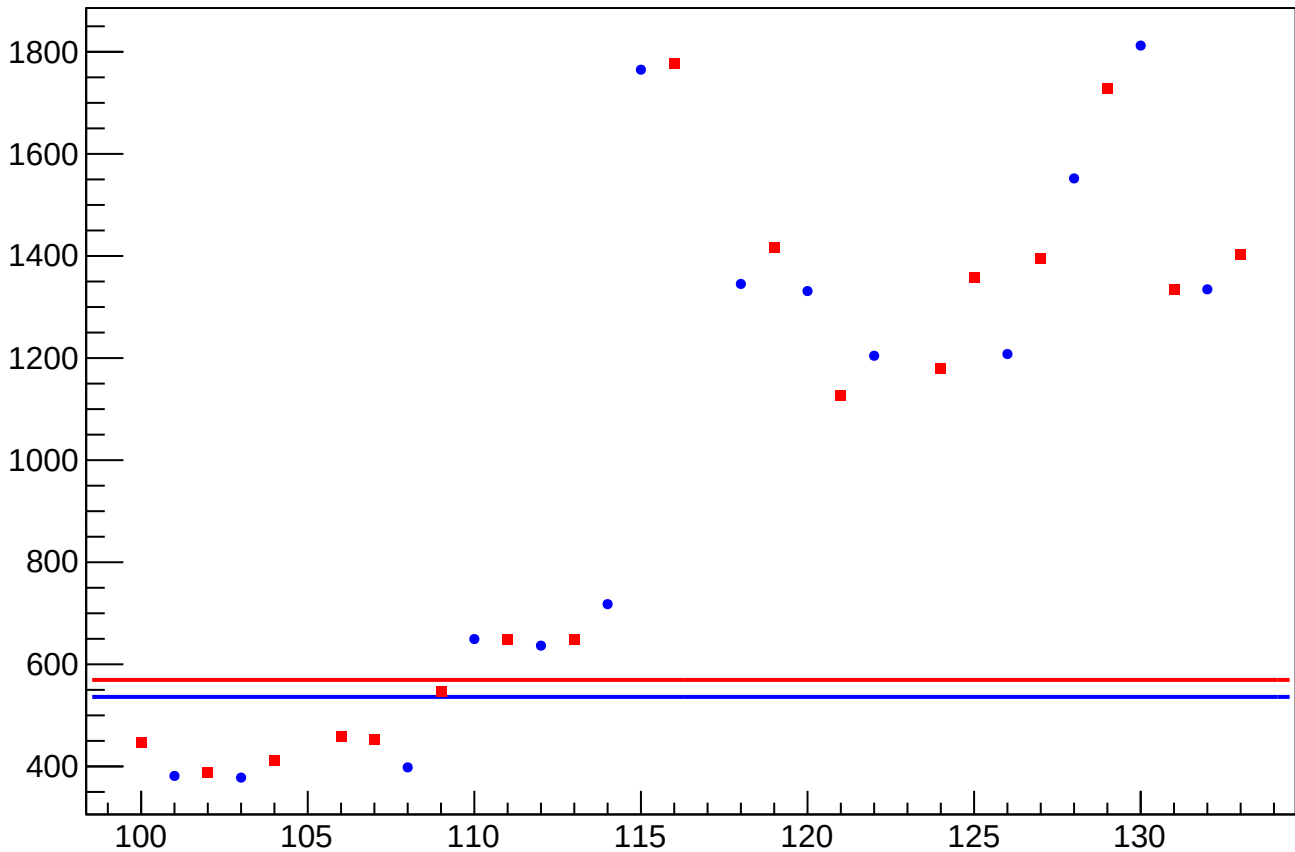
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 97.398 $\pm$ 178.431  $\chi^2$ /NDF: 25.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_dit\_correction\_rms vs Slug



Right In: 536.189+/-0.181  $\chi^2/\text{NDF}$ : 3136698.4/13

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

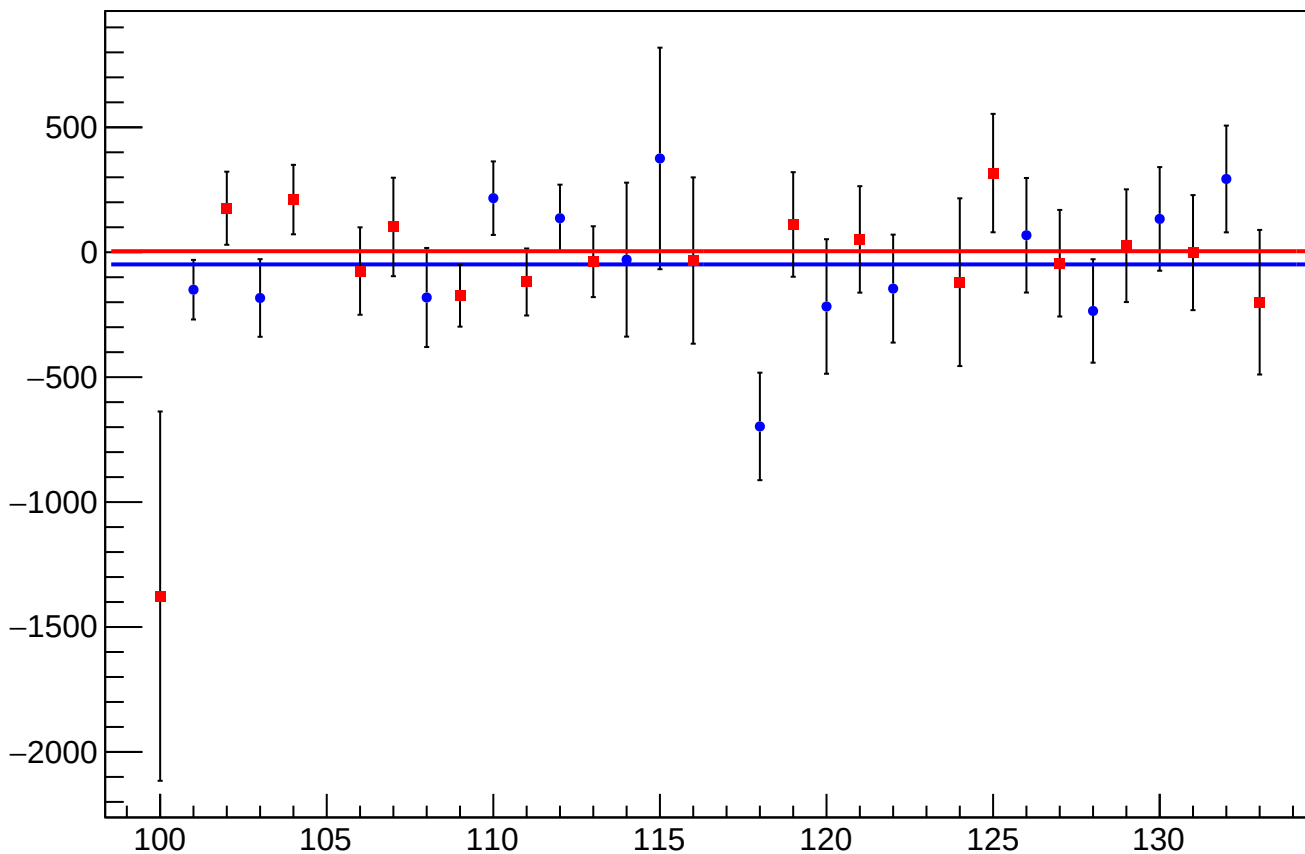
Right Out: 569.544+/-0.176  $\chi^2/\text{NDF}$ : 3008190.3/16

All: 553.312+/-0.126  $\chi^2/\text{NDF}$ : 6162348.4/30

- 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\_sam6\_mean vs Slug



Right In:  $-48.681 \pm 50.078$   $\chi^2/\text{NDF}$ : 22.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $4.134 \pm 45.536$   $\chi^2/\text{NDF}$ : 13.3/16

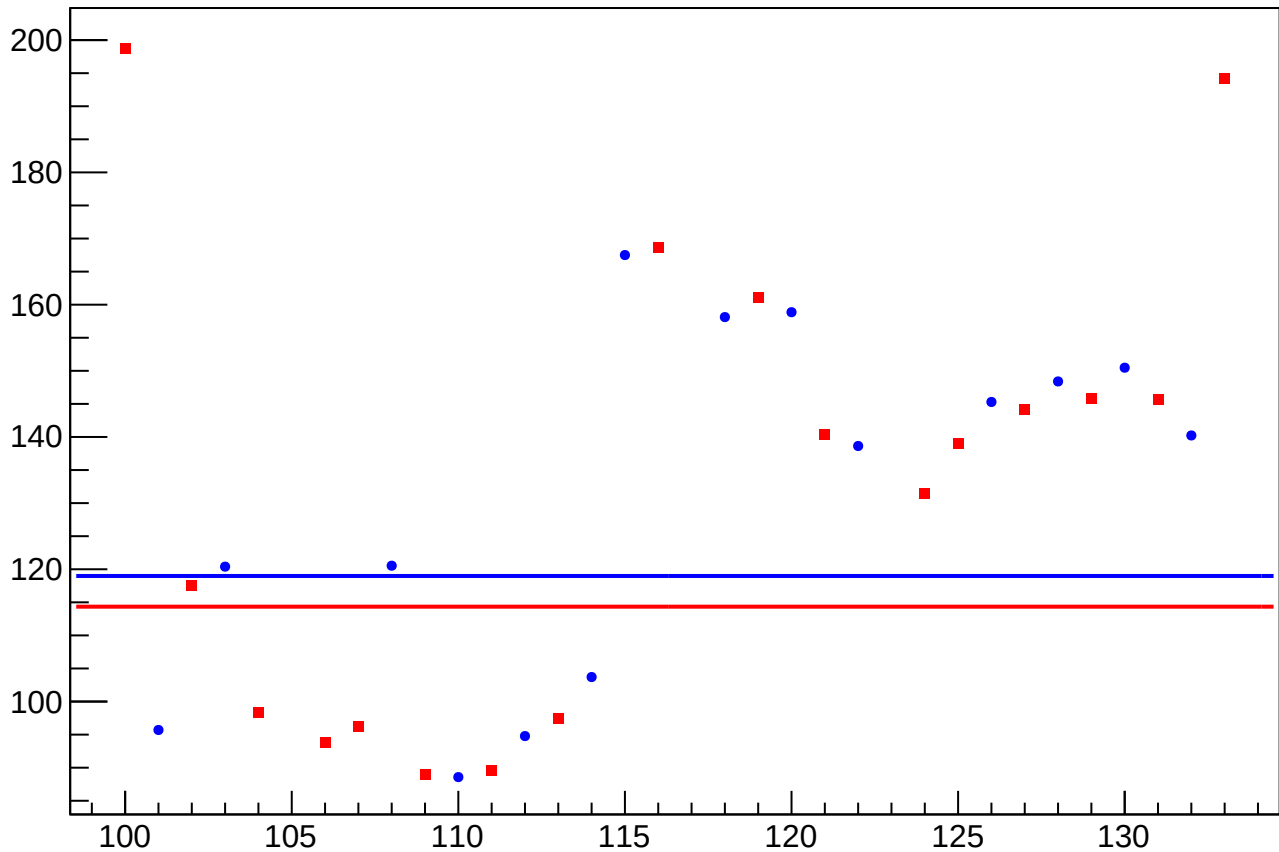
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-19.770 \pm 33.690$   $\chi^2/\text{NDF}$ : 36.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam6\_rms vs Slug



Right In: 118.985 $\pm$ 0.035  $\chi^2$ /NDF: 514992.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 114.344 $\pm$ 0.032  $\chi^2$ /NDF: 755560.6/16

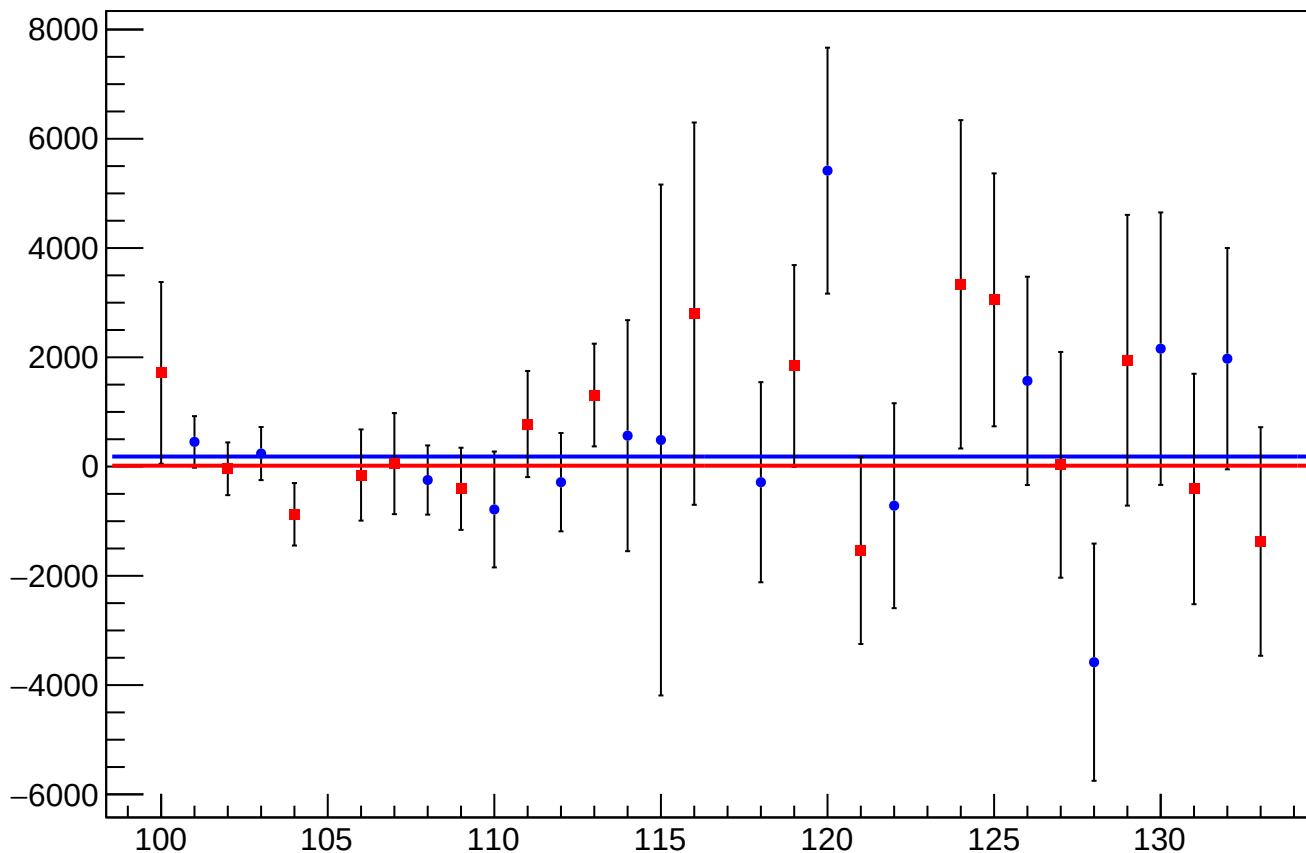
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 116.445 $\pm$ 0.024  $\chi^2$ /NDF: 1279957.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_eigen\_dit\_correction\_mean vs Slug



Right In: 183.359 $\pm$ 255.776  $\chi^2$ /NDF: 12.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 15.906 $\pm$ 249.036  $\chi^2$ /NDF: 12.7/16

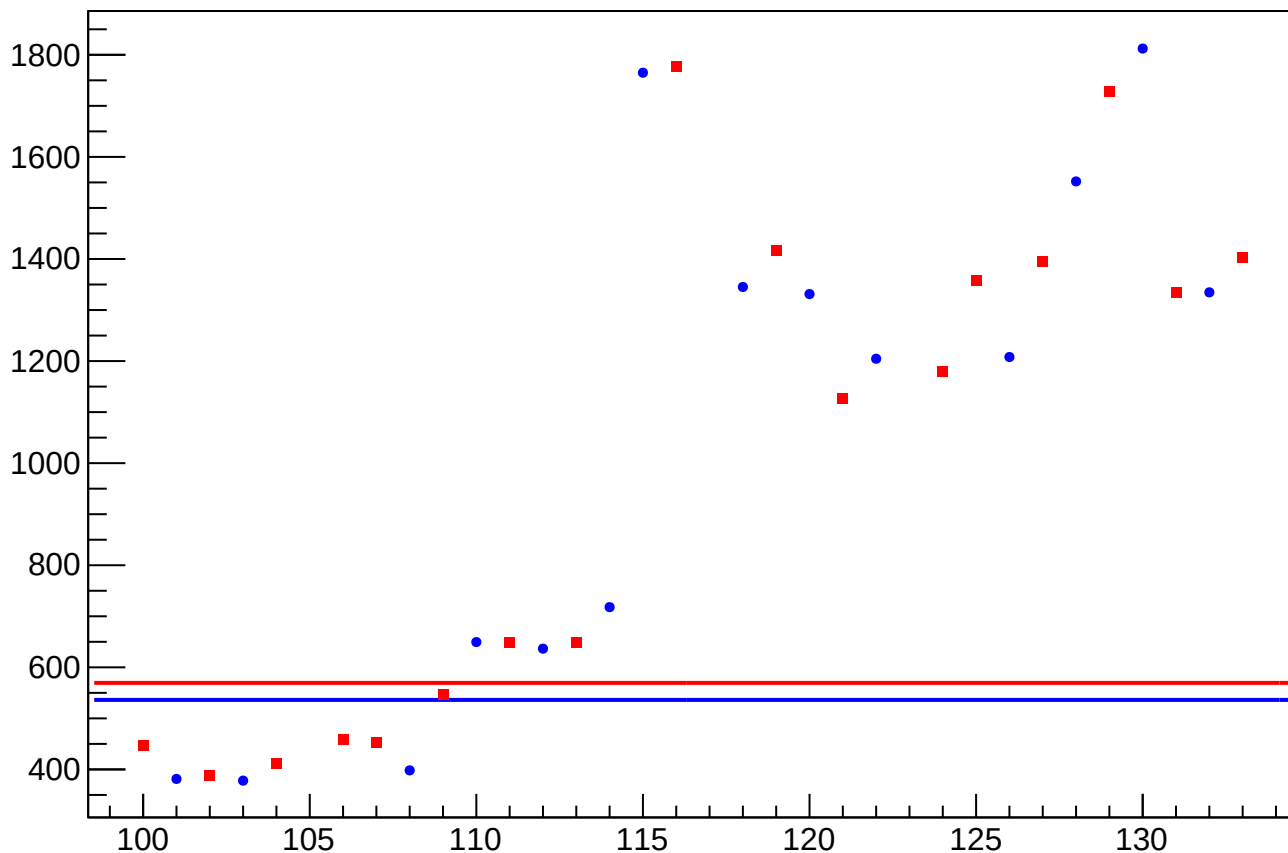
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 97.397 $\pm$ 178.430  $\chi^2$ /NDF: 25.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_eigen\_dit\_correction\_rms vs Slug



Right In: 536.189+/-0.181  $\chi^2/\text{NDF}$ : 3136702.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 569.544+/-0.176  $\chi^2/\text{NDF}$ : 3008190.6/16

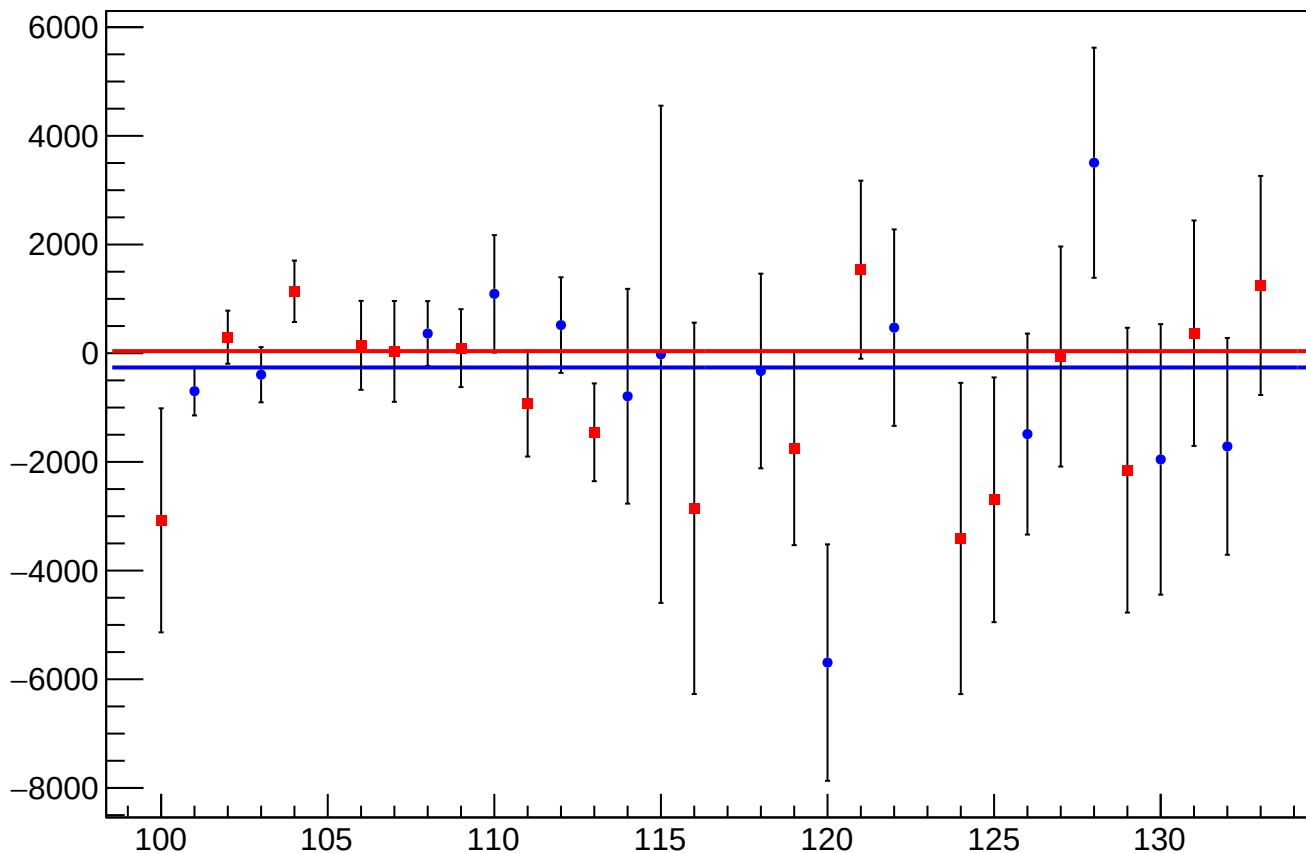
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 553.312+/-0.126  $\chi^2/\text{NDF}$ : 6162352.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_mean vs Slug



Right In: -262.350+/-250.724  $\chi^2/\text{NDF}$ : 15.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38.741+/-246.896  $\chi^2/\text{NDF}$ : 16.7/16

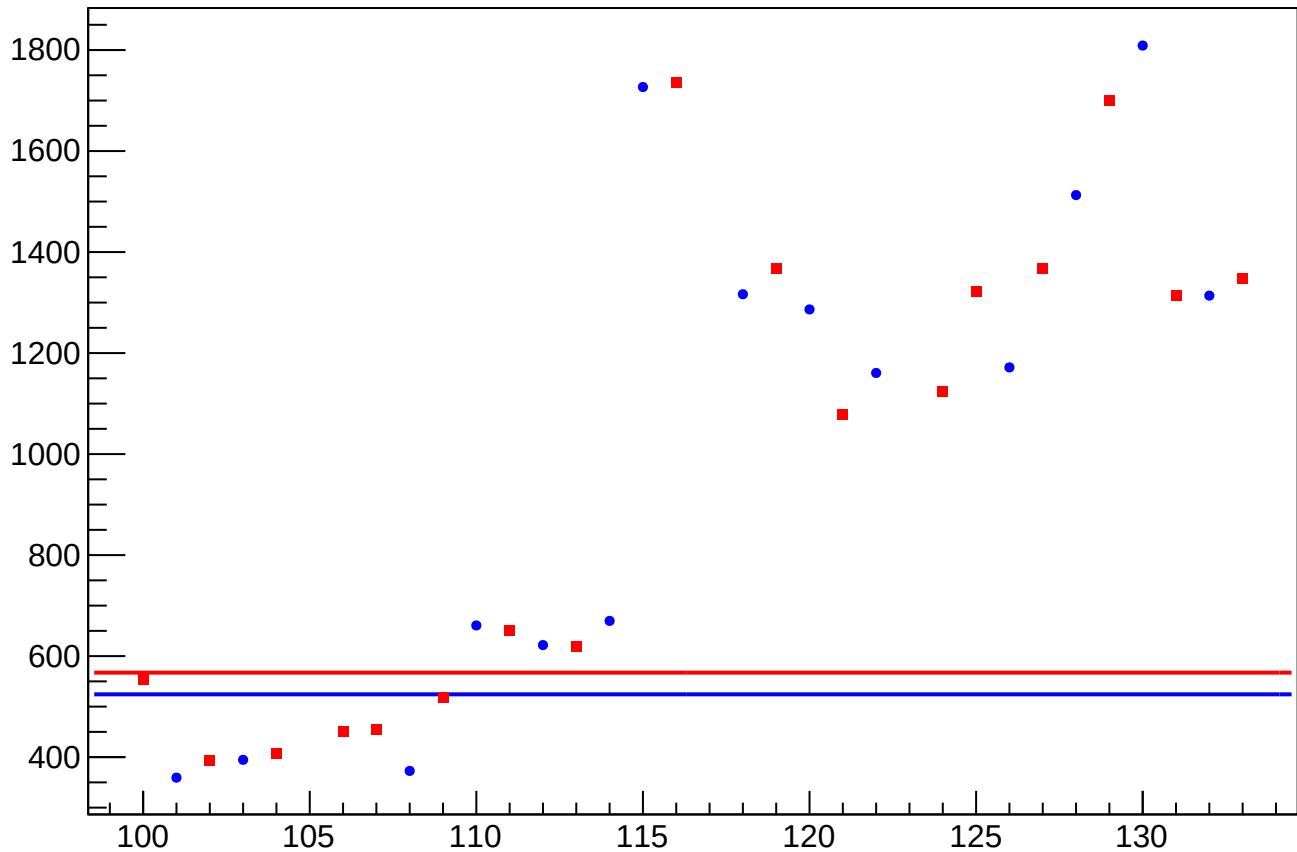
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -109.488+/-175.919  $\chi^2/\text{NDF}$ : 33.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_rms vs Slug



Right In: 524.329+/-0.177  $\chi^2/\text{NDF}$ : 3148412.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 567.309+/-0.175  $\chi^2/\text{NDF}$ : 2894091.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

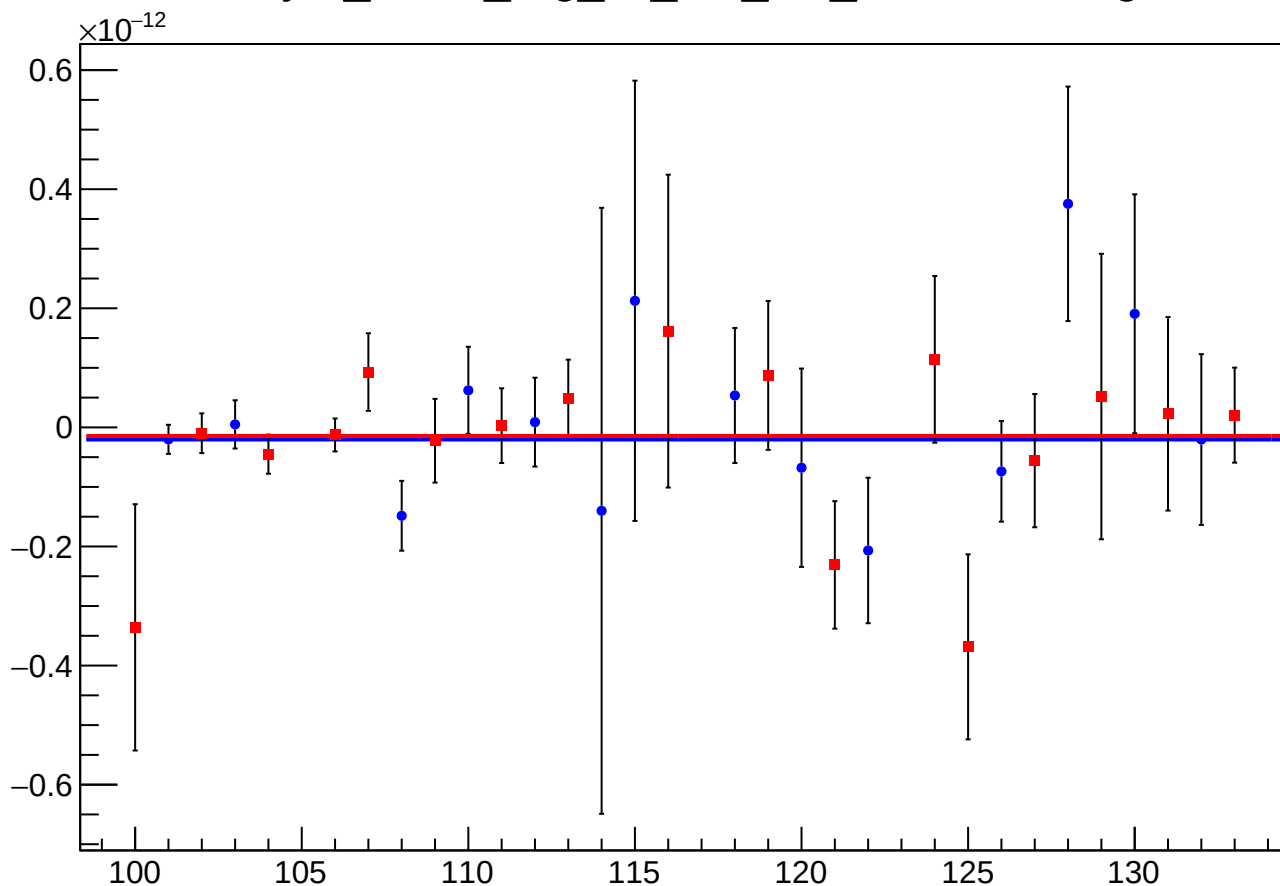
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 546.150+/-0.124  $\chi^2/\text{NDF}$ : 6072341.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam6\_reg\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 15.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 18.7/16

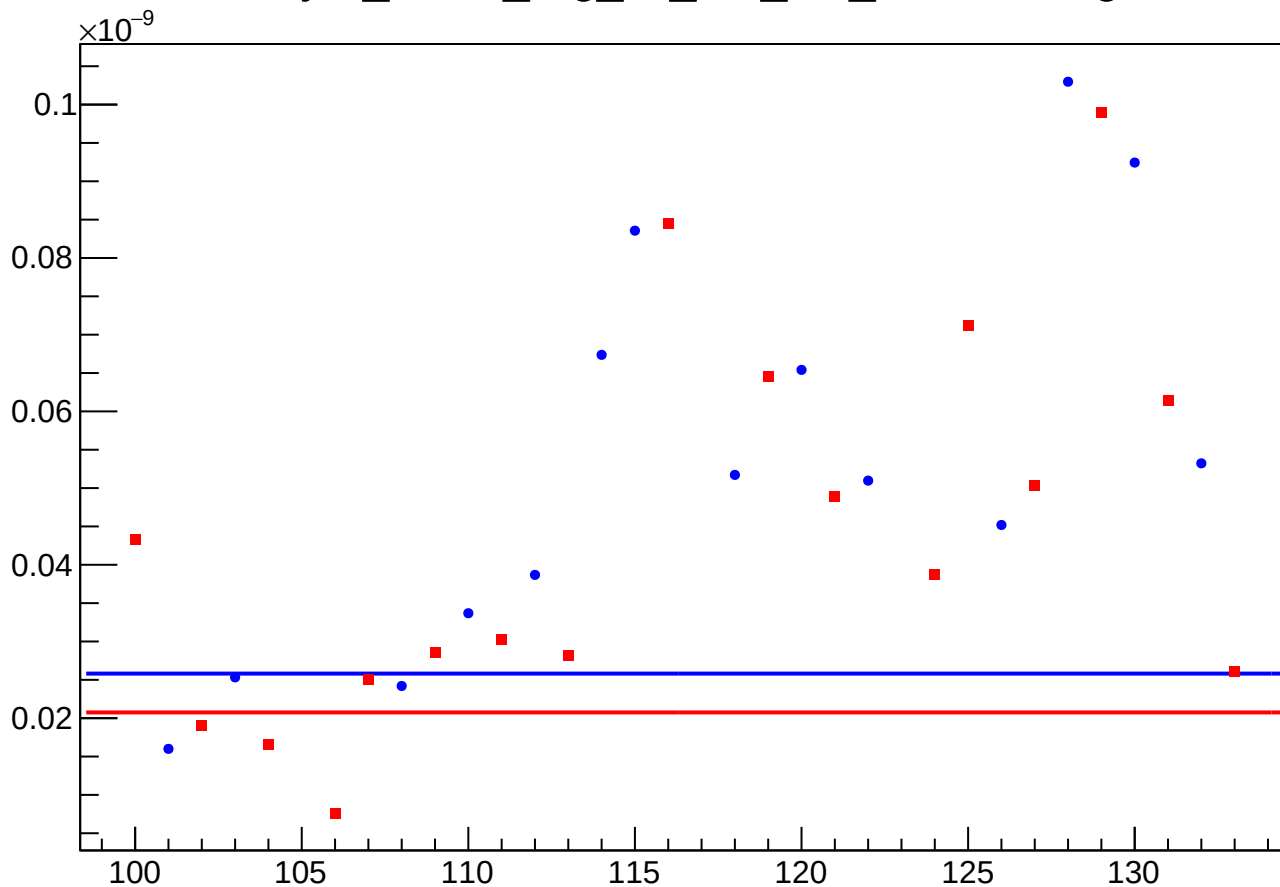
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 34.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1476954.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1855526.8/16

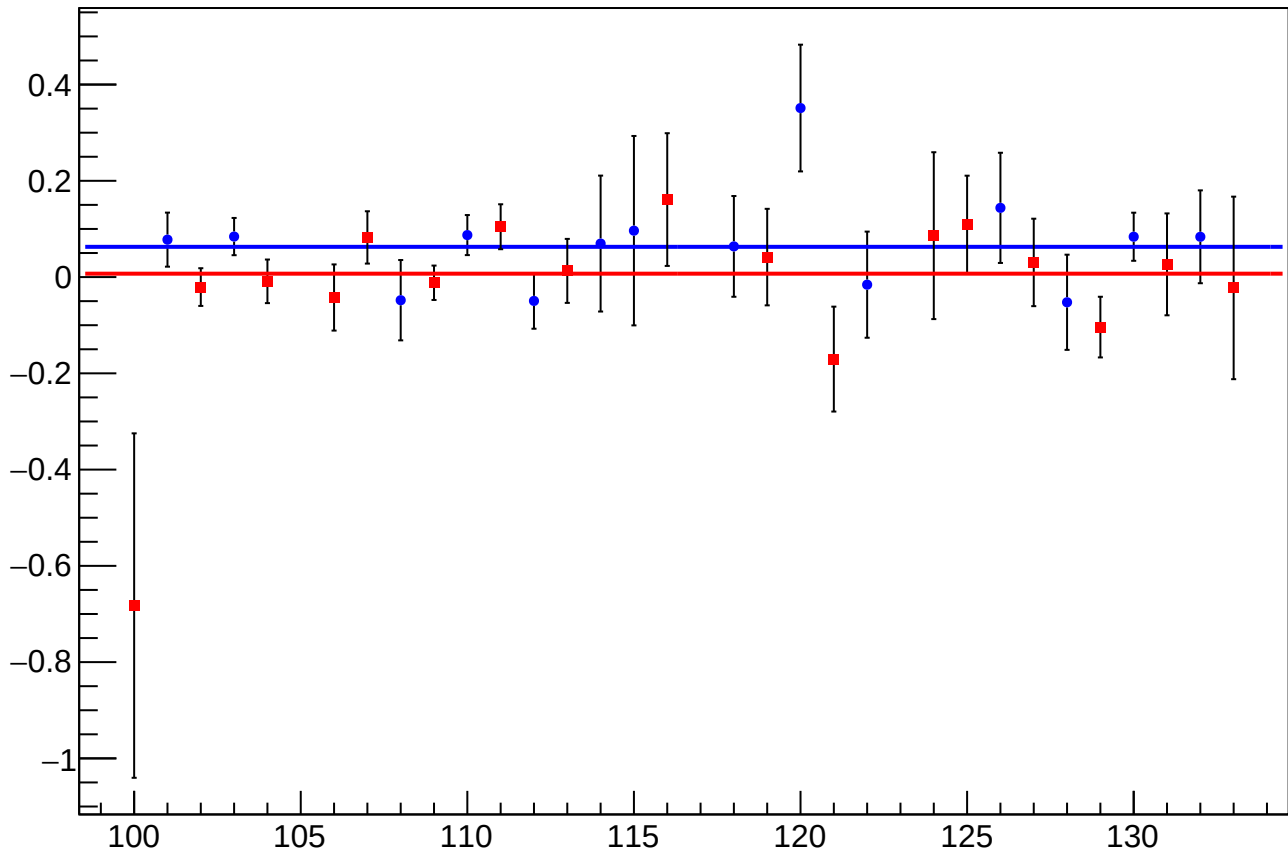
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3432598.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.063 $\pm$ 0.018  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.007 $\pm$ 0.016  $\chi^2$ /NDF: 19.9/16

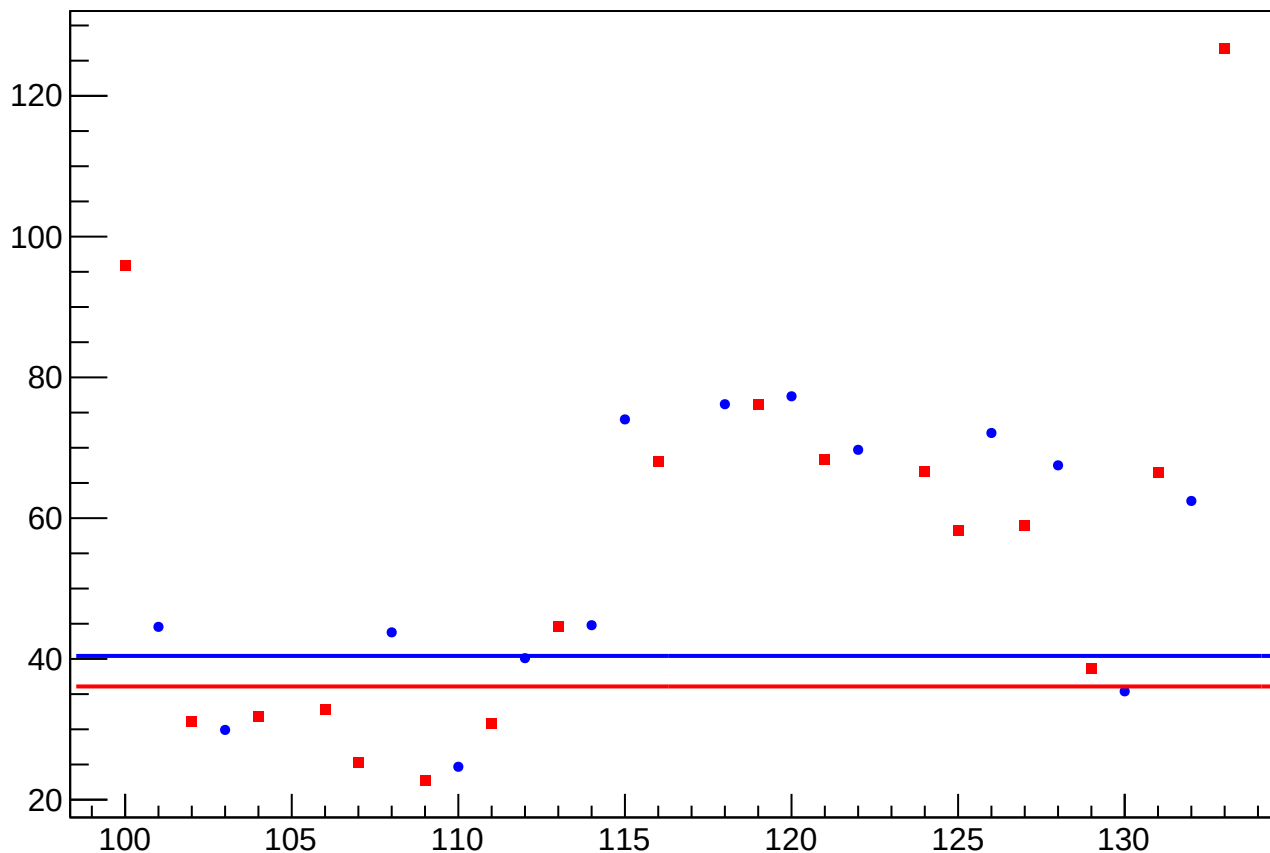
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.012  $\chi^2$ /NDF: 38.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 40.427+/-0.013  $\chi^2/\text{NDF}$ : 1467627.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.088+/-0.011  $\chi^2/\text{NDF}$ : 2040926.9/16

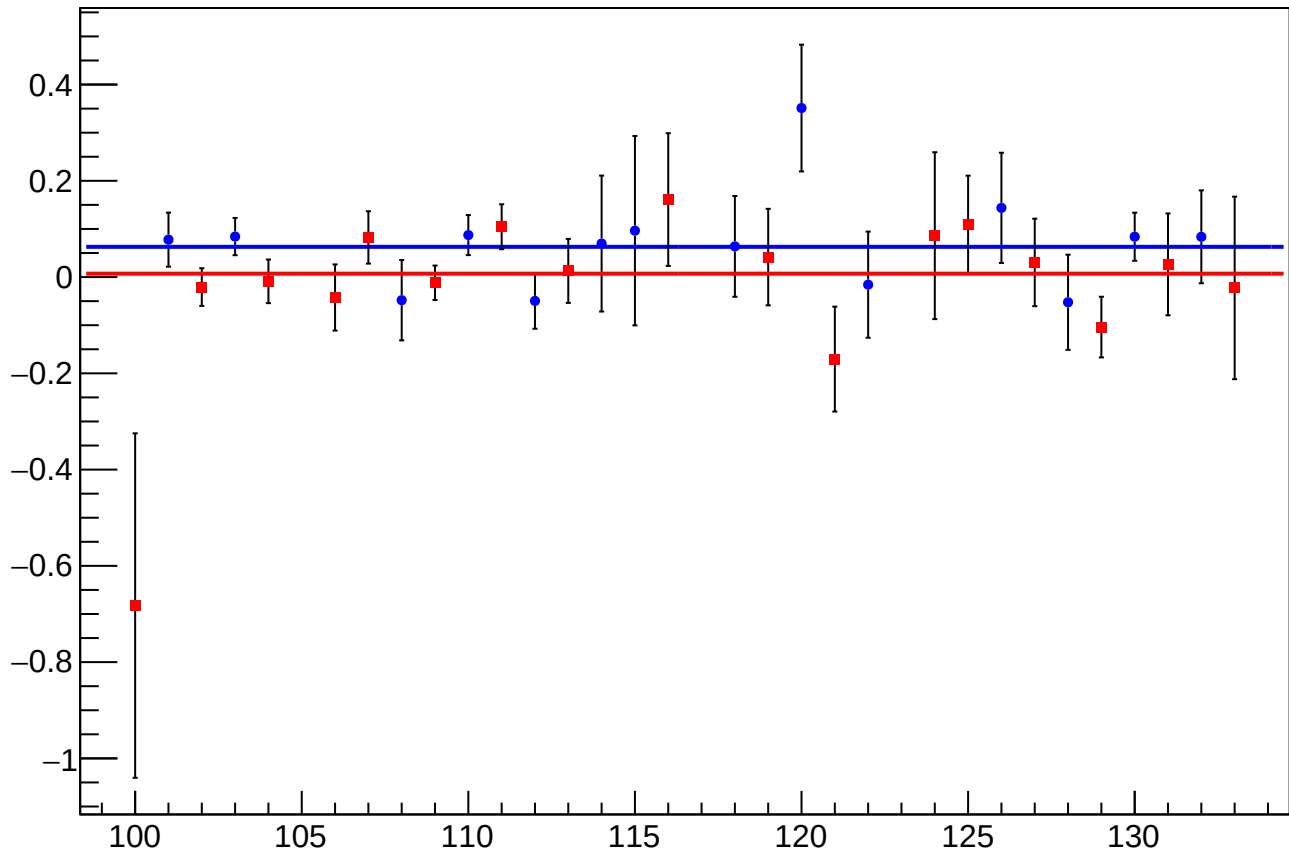
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.942+/-0.008  $\chi^2/\text{NDF}$ : 3573242.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.063 $\pm$ 0.018  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.007 $\pm$ 0.016  $\chi^2$ /NDF: 19.9/16

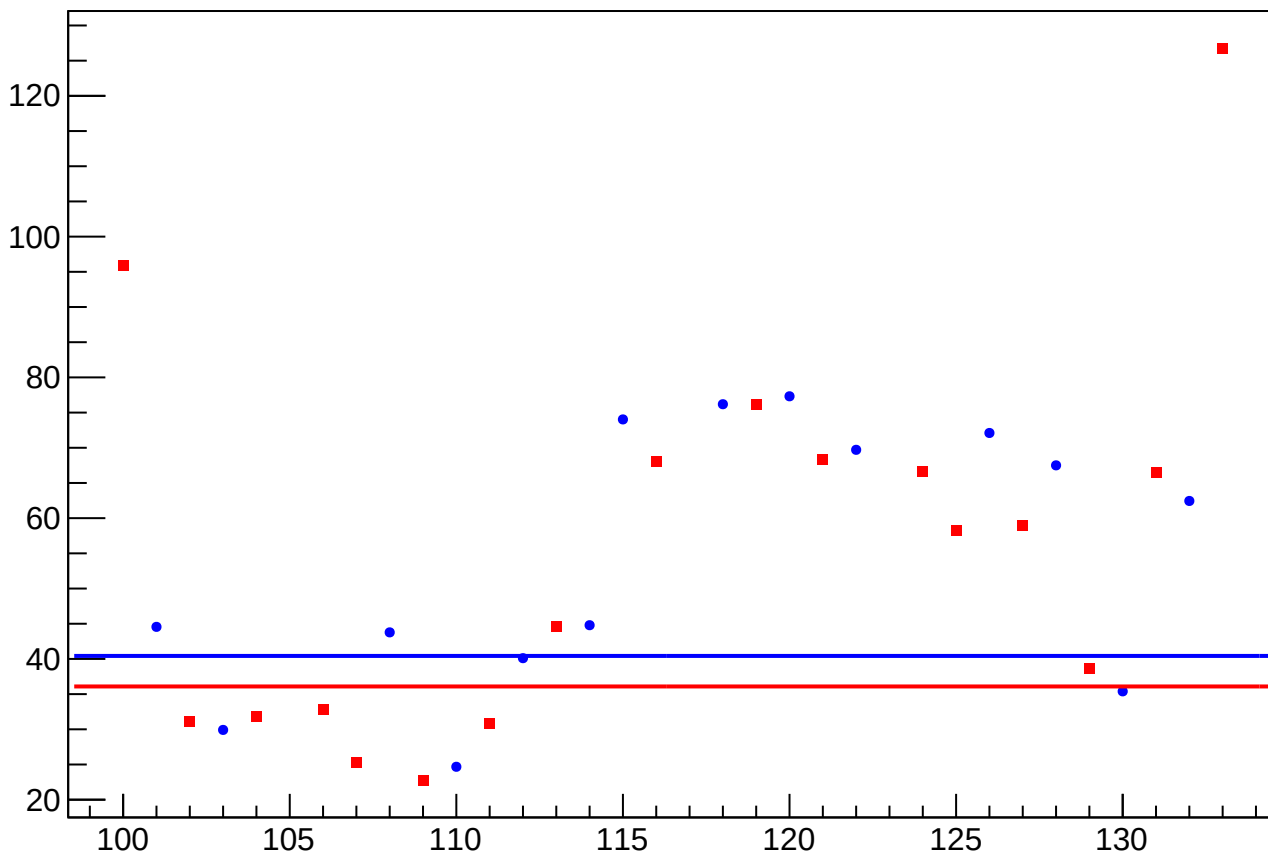
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.012  $\chi^2$ /NDF: 38.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 40.427+/-0.013  $\chi^2/\text{NDF}$ : 1467627.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.088+/-0.011  $\chi^2/\text{NDF}$ : 2040926.9/16

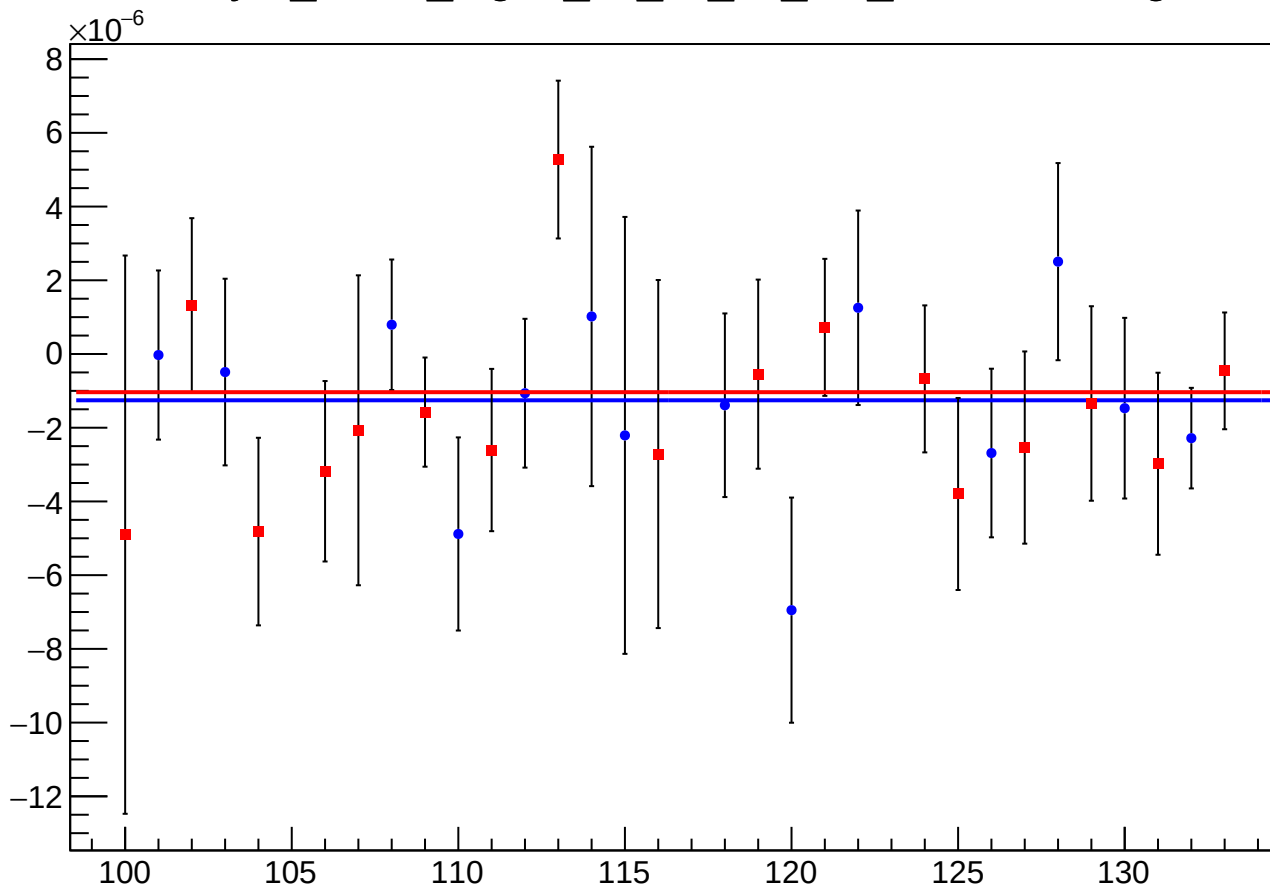
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.942+/-0.008  $\chi^2/\text{NDF}$ : 3573242.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam6\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.9/16

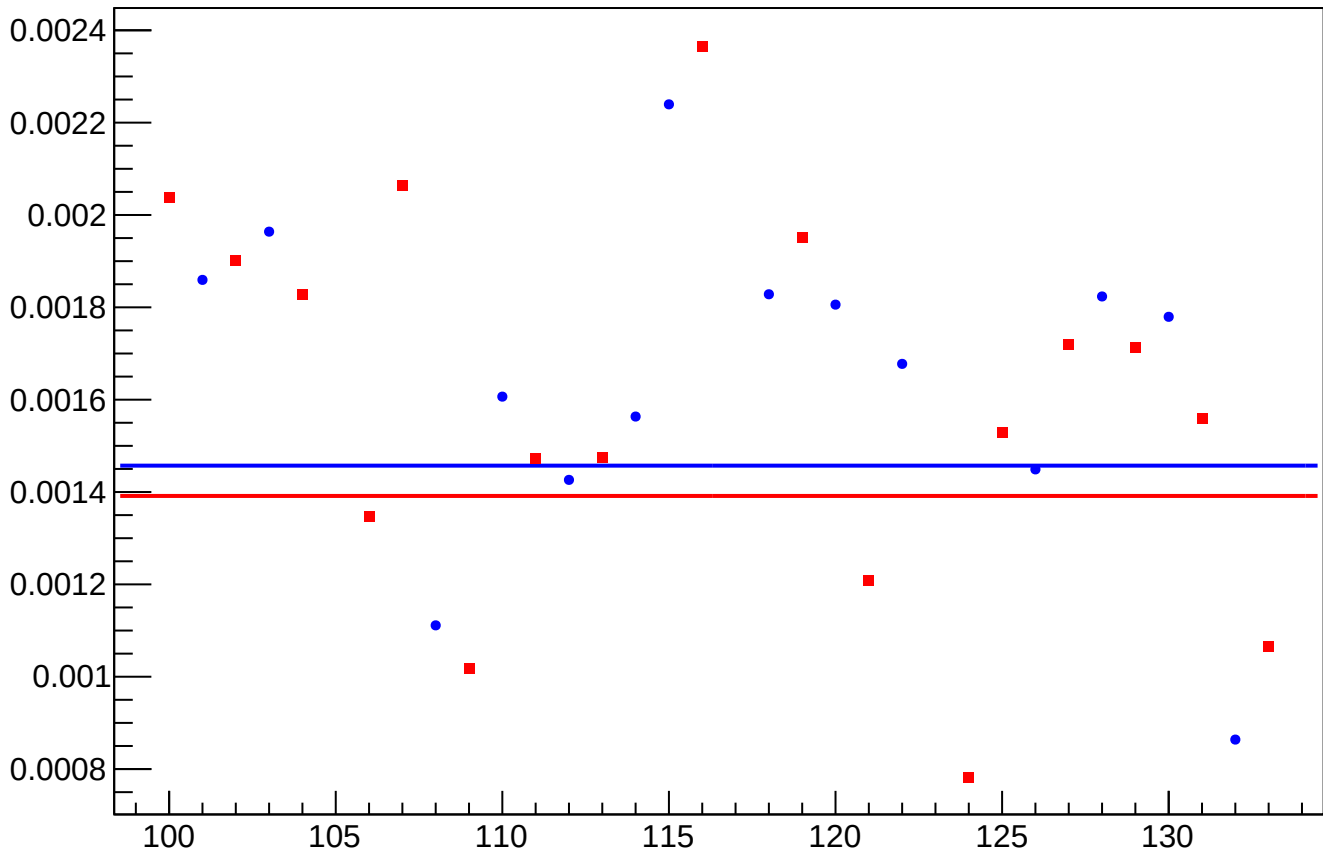
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 28.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 795673.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 898292.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

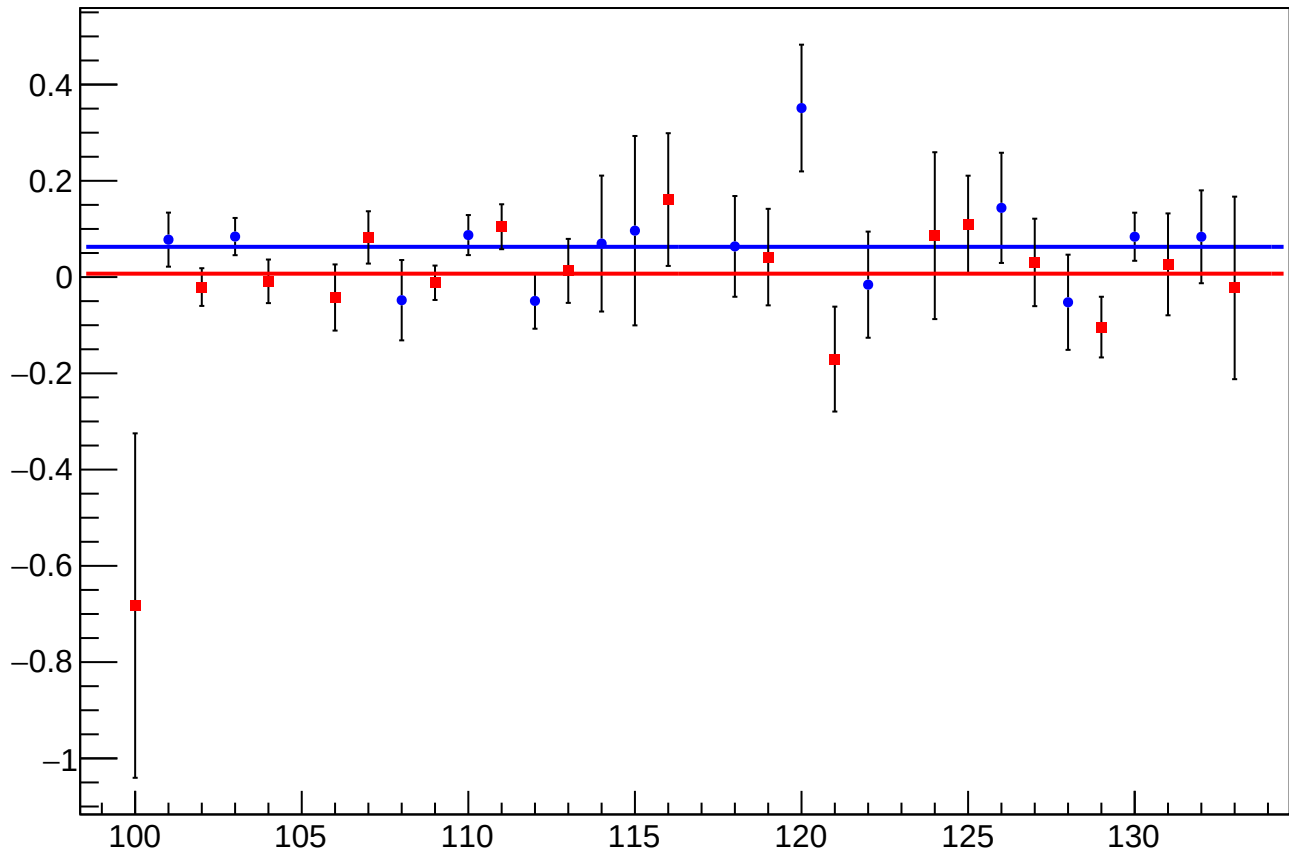
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1706254.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam6\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.063 $\pm$ 0.018  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.007 $\pm$ 0.016  $\chi^2$ /NDF: 19.9/16

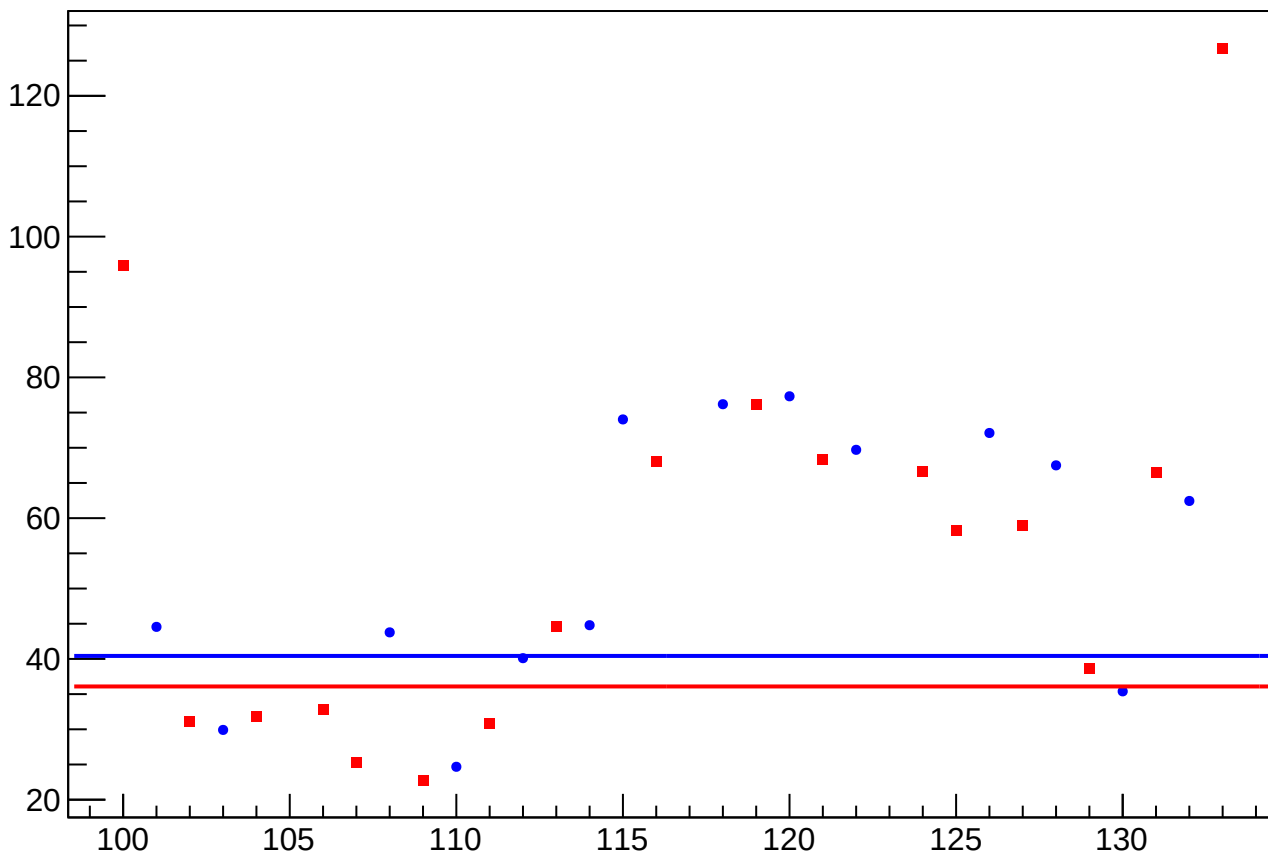
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.012  $\chi^2$ /NDF: 38.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 40.426+/-0.013  $\chi^2/\text{NDF}$ : 1467635.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.088+/-0.011  $\chi^2/\text{NDF}$ : 2040921.9/16

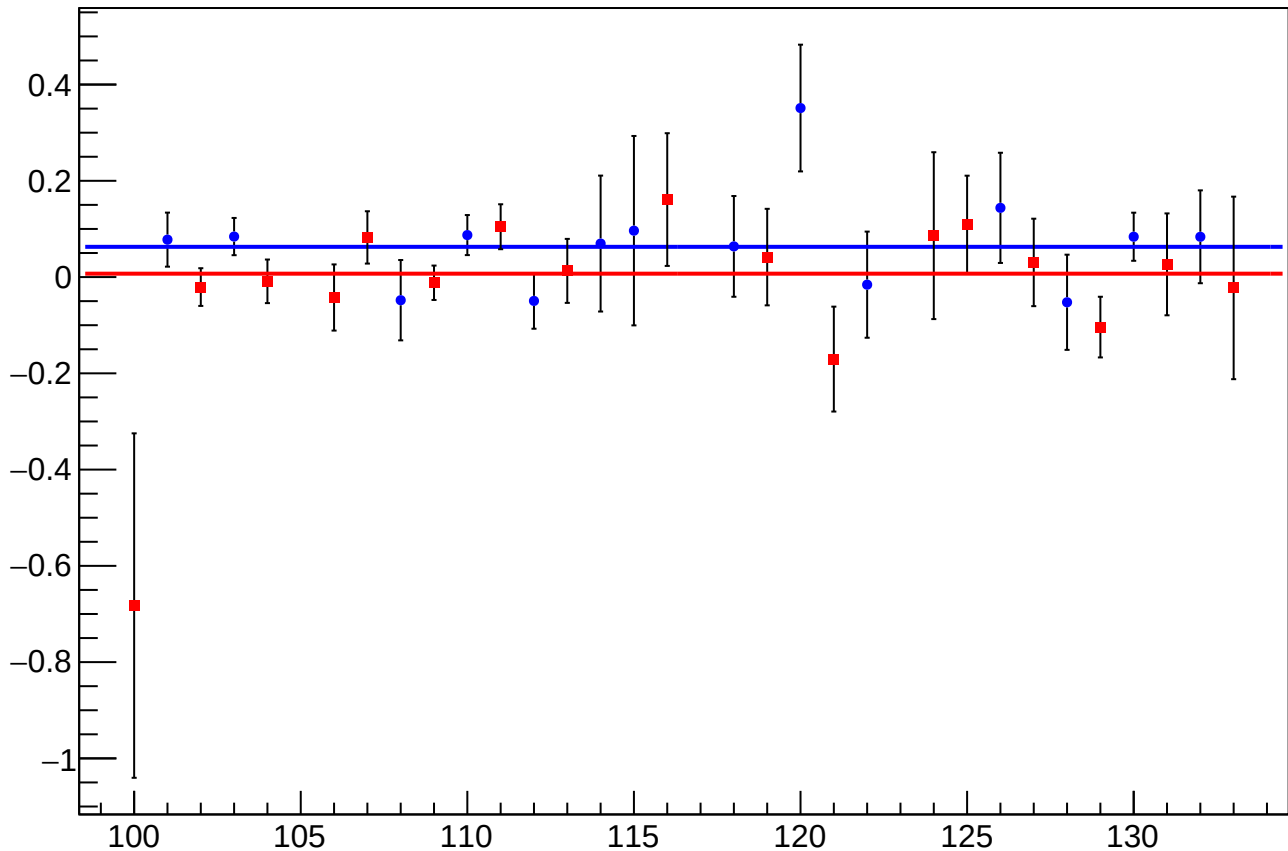
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.941+/-0.008  $\chi^2/\text{NDF}$ : 3573239.8/30

- 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: 0.063 $\pm$ 0.018  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.007 $\pm$ 0.016  $\chi^2$ /NDF: 19.9/16

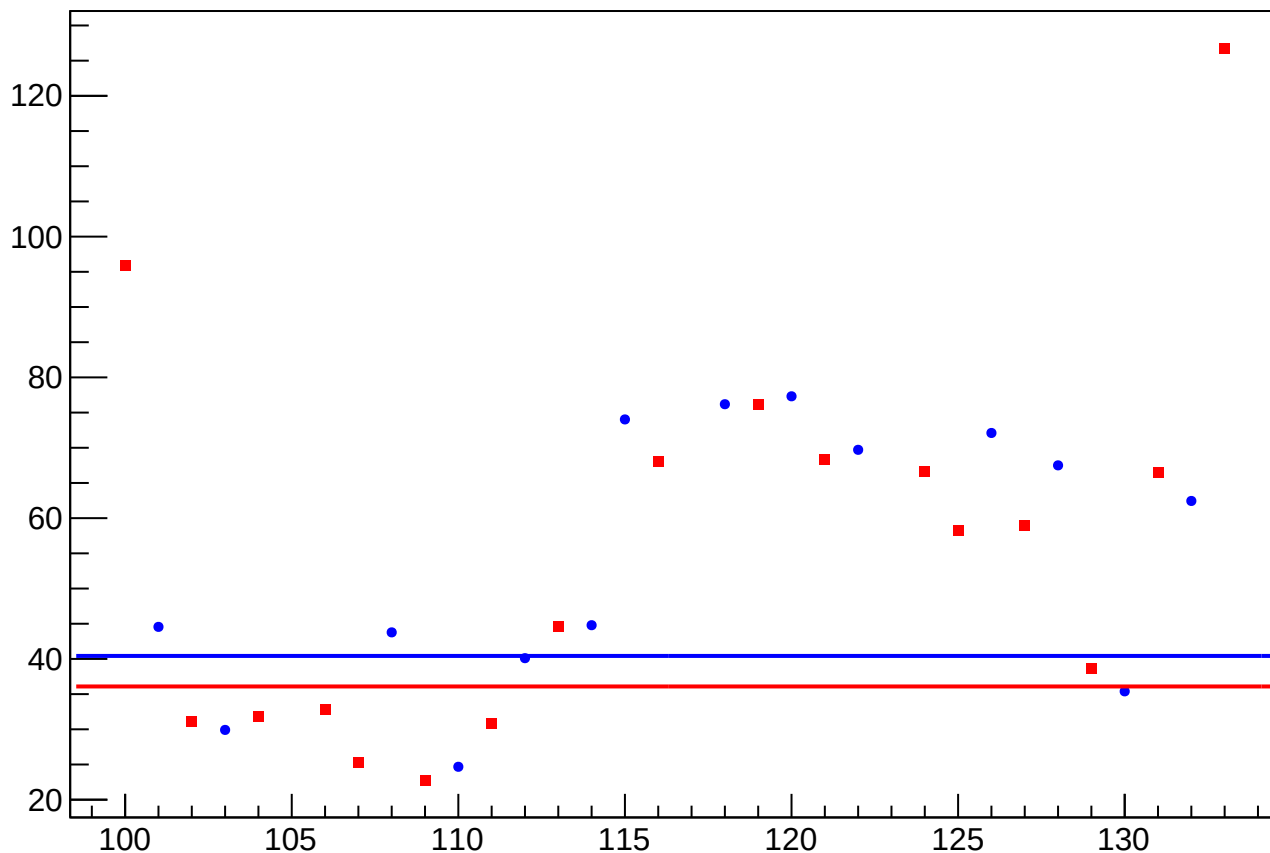
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.031 $\pm$ 0.012  $\chi^2$ /NDF: 38.9/30

- 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: 40.426+/-0.013  $\chi^2/\text{NDF}$ : 1467635.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.088+/-0.011  $\chi^2/\text{NDF}$ : 2040921.9/16

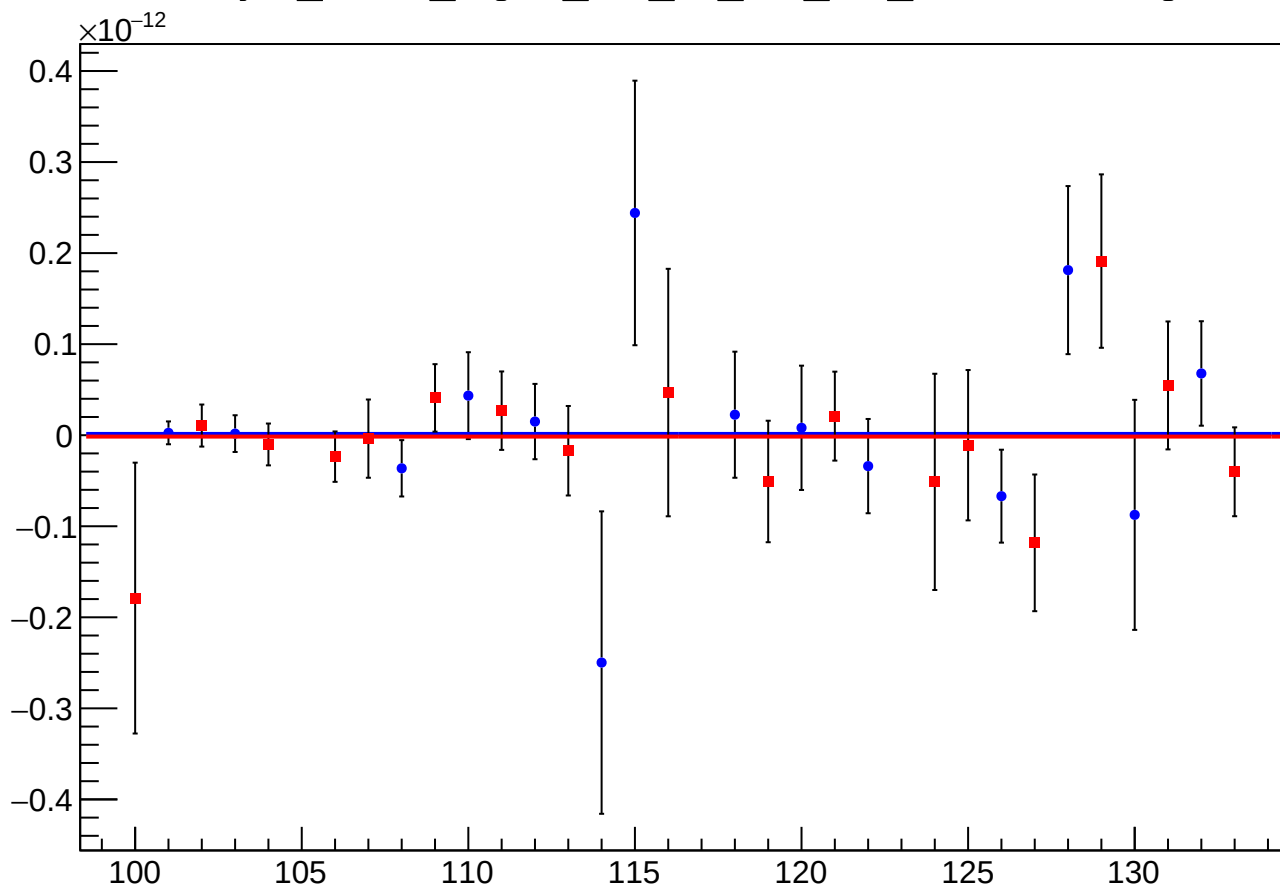
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.941+/-0.008  $\chi^2/\text{NDF}$ : 3573239.8/30

- 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  $\chi^2/\text{NDF}$ : 15.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.2/16

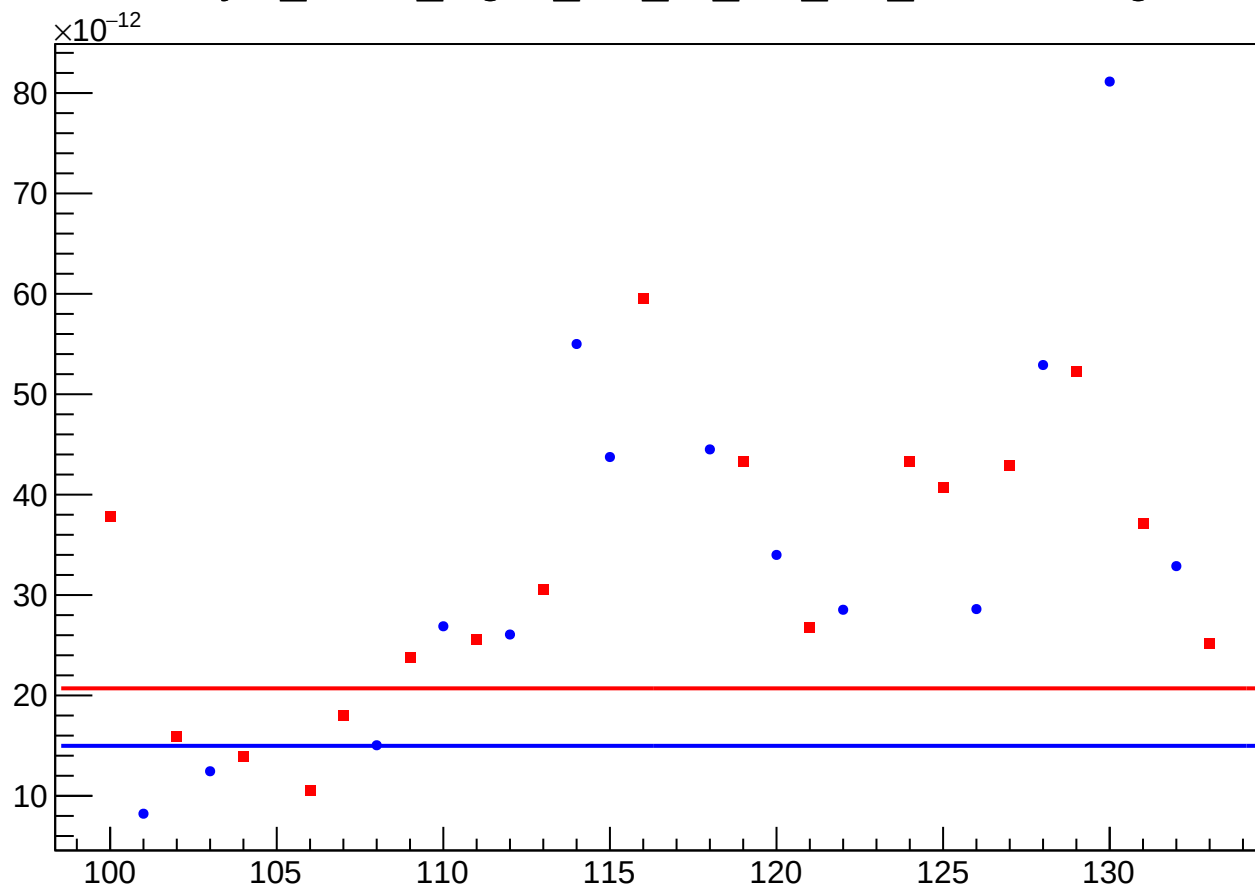
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28.7/30

- 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  $\chi^2/\text{NDF}$ : 2954134.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1822067.4/16

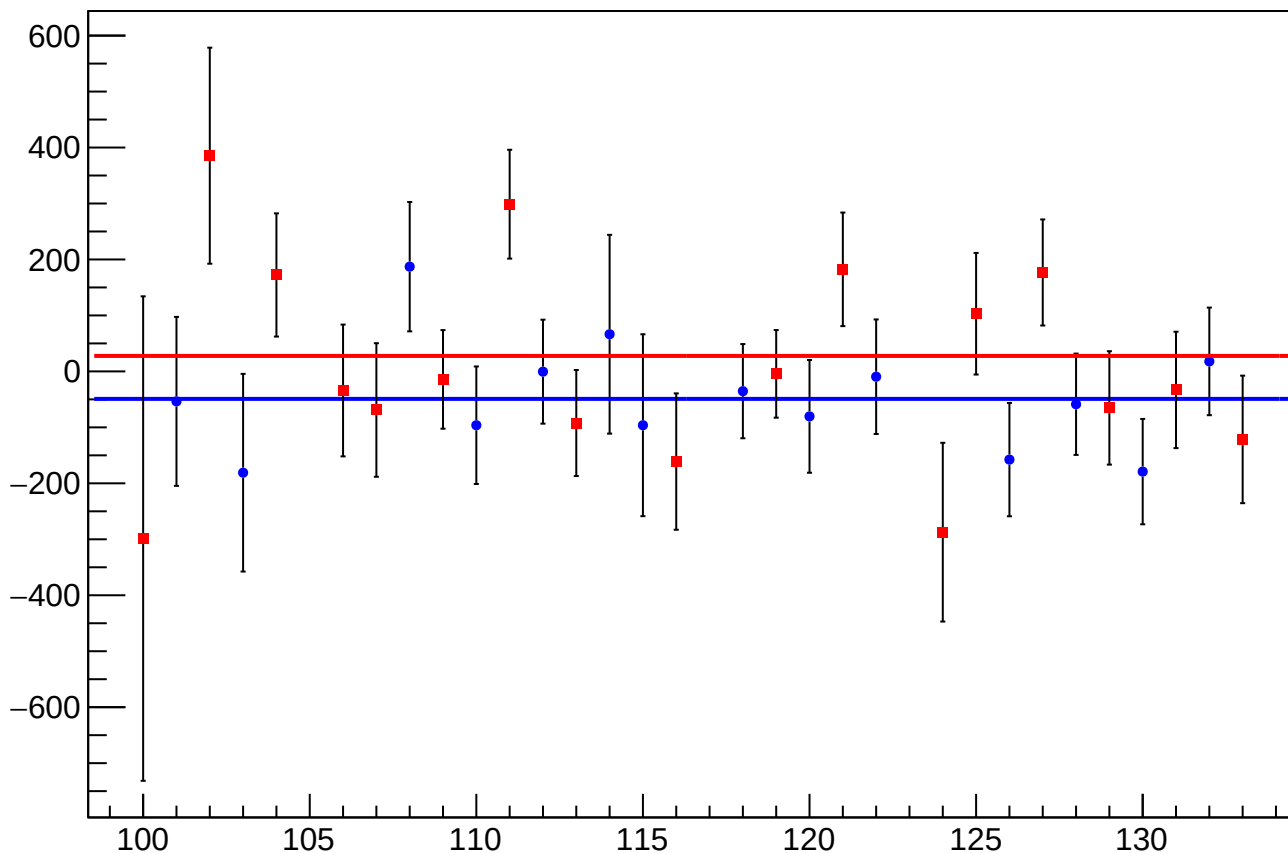
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5124548.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_mean vs Slug



Right In:  $-49.107 \pm 28.836$   $\chi^2/\text{NDF}$ : 9.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $27.664 \pm 26.415$   $\chi^2/\text{NDF}$ : 30.9/16

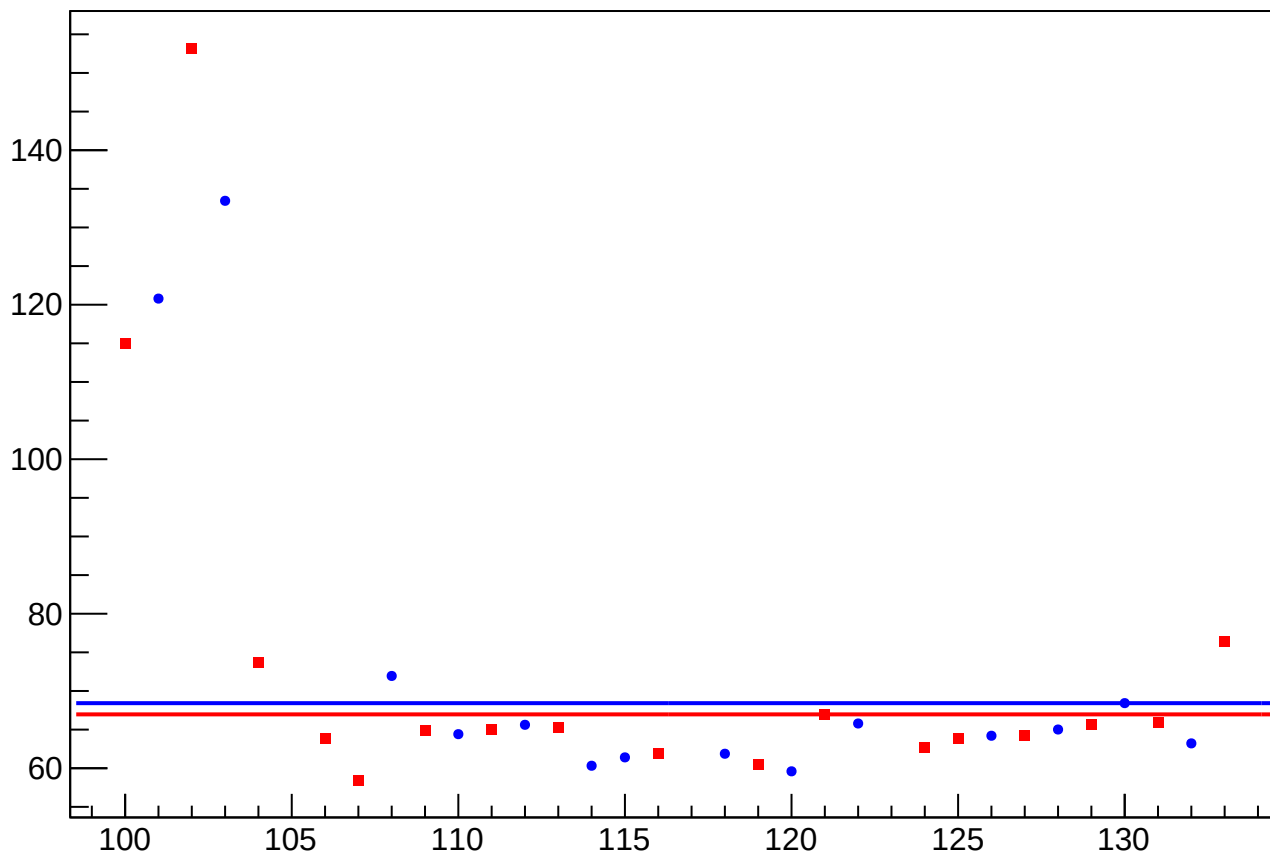
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-7.365 \pm 19.478$   $\chi^2/\text{NDF}$ : 44.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_rms vs Slug



Right In: 68.423+/-0.020  $\chi^2/\text{NDF}$ : 567106.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 66.972+/-0.019  $\chi^2/\text{NDF}$ : 481069.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

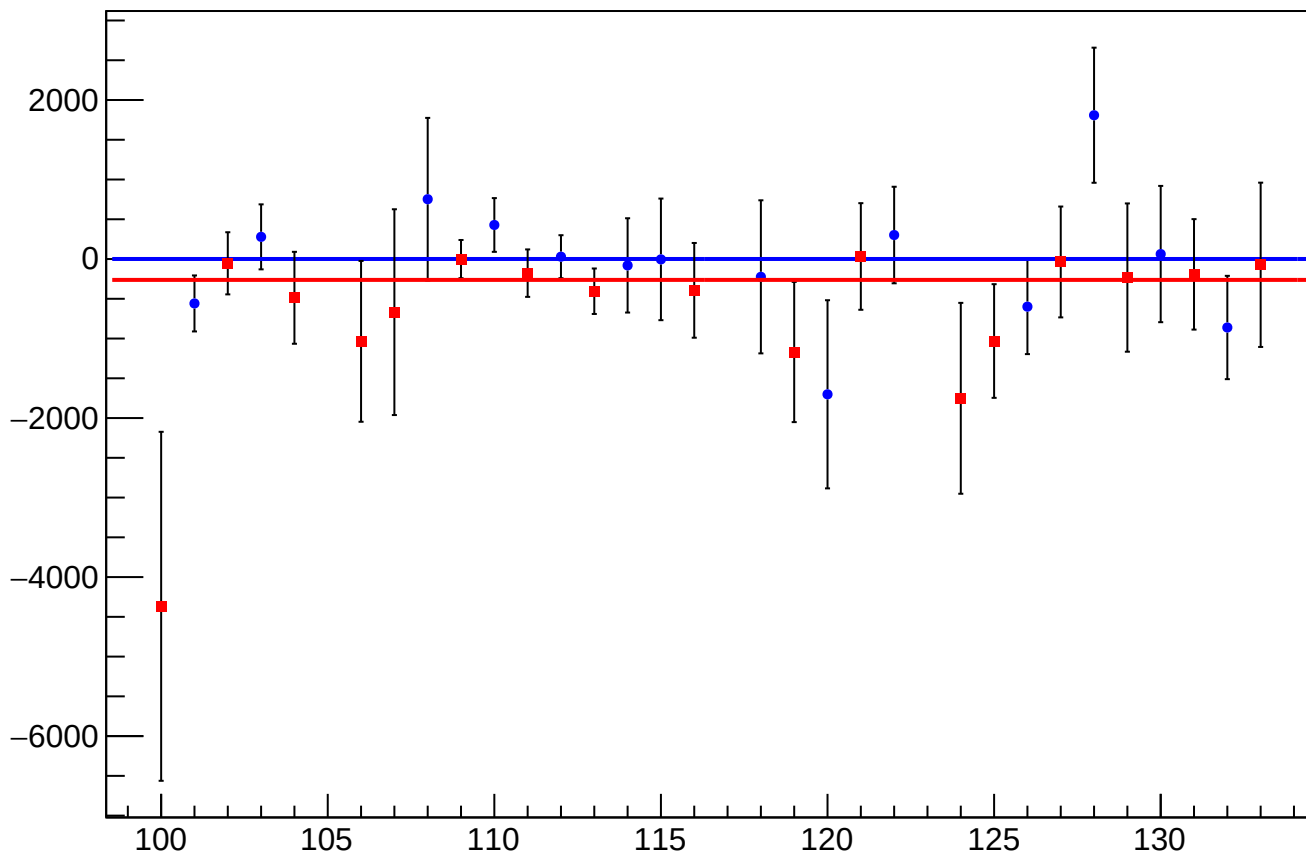
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.634+/-0.014  $\chi^2/\text{NDF}$ : 1050929.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam7\_reg\_correction\_mean vs Slug



Right In: 0.600+/-135.525  $\chi^2/\text{NDF}$ : 14.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -262.501+/-121.870  $\chi^2/\text{NDF}$ : 10.3/16

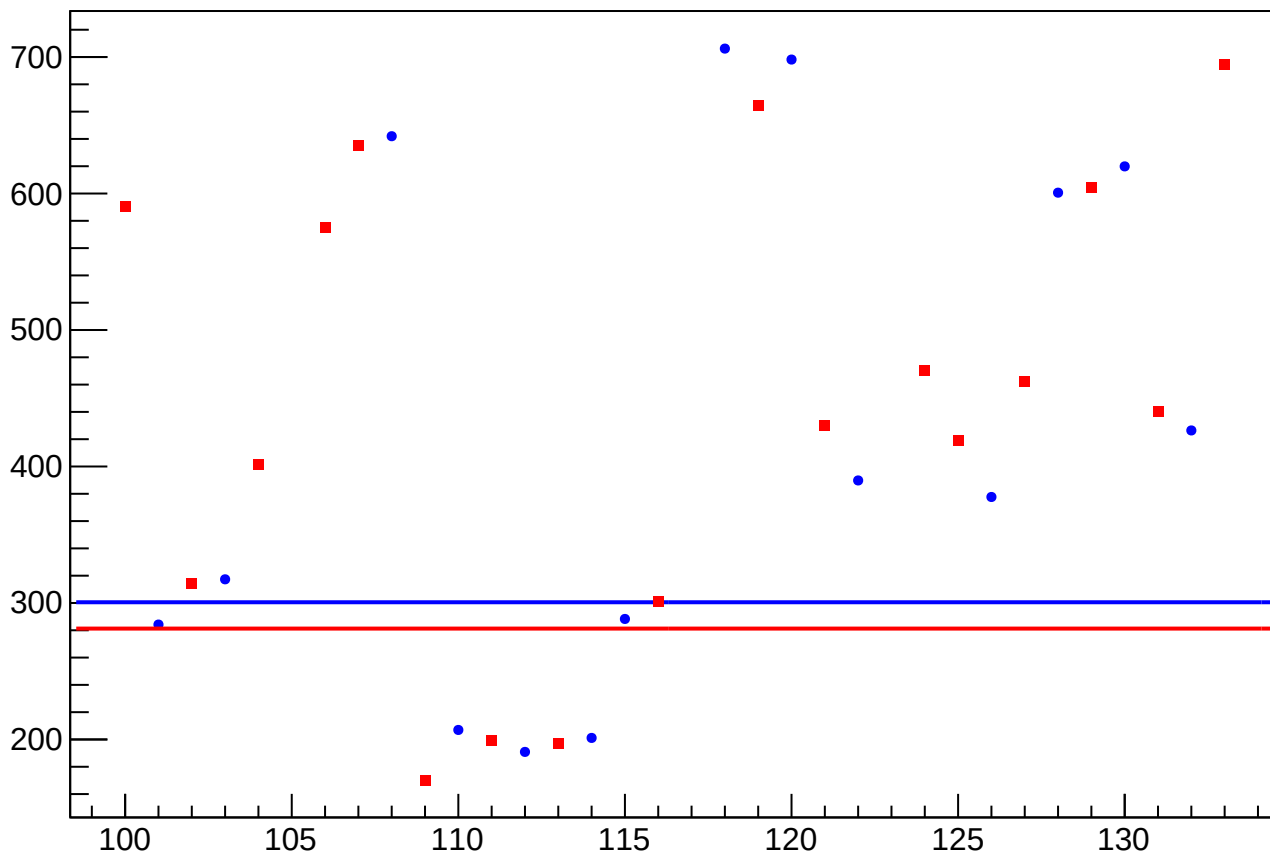
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -144.869+/-90.619  $\chi^2/\text{NDF}$ : 27.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_reg\_correction\_rms vs Slug



Right In:  $300.532 \pm 0.096$   $\chi^2/\text{NDF}$ : 2030048.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $281.243 \pm 0.086$   $\chi^2/\text{NDF}$ : 2615982.0/16

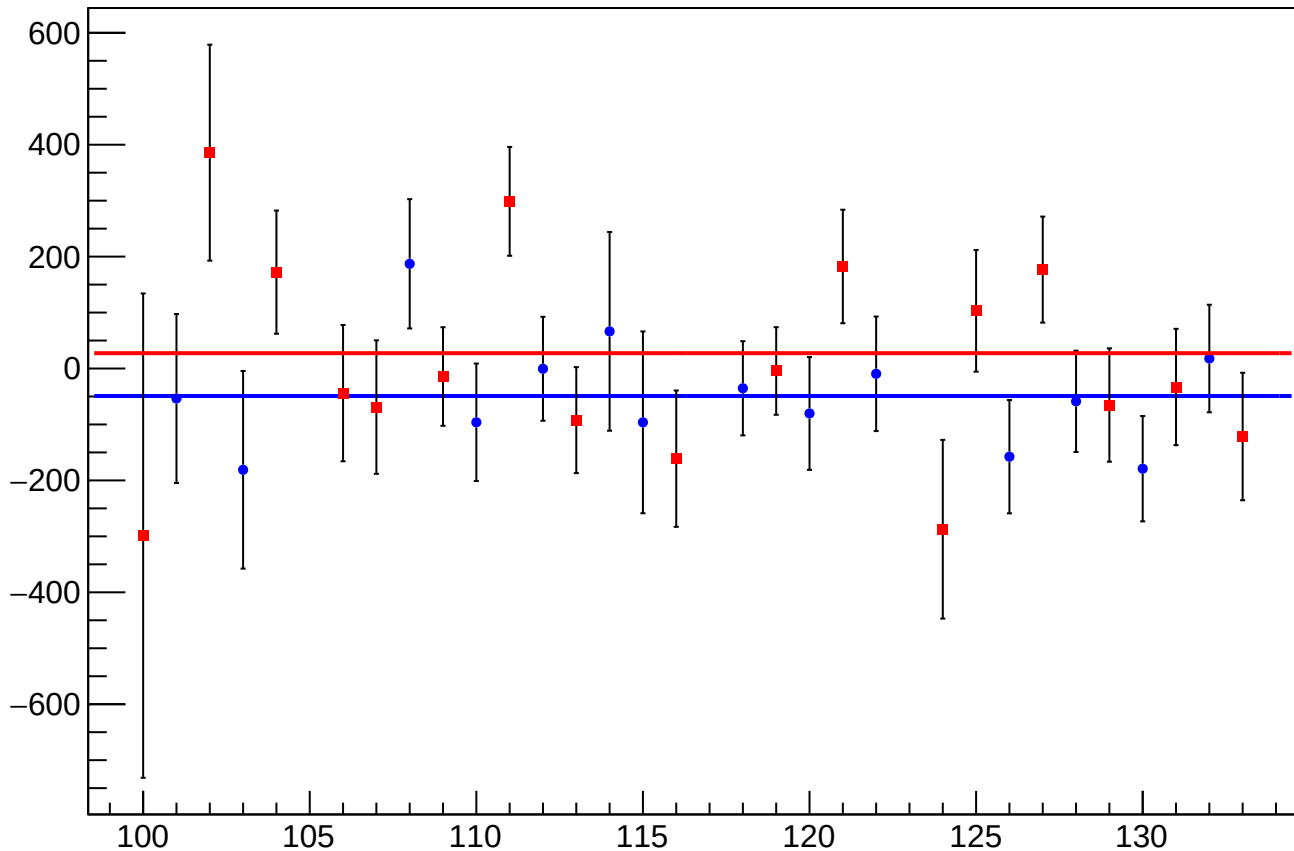
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $289.867 \pm 0.064$   $\chi^2/\text{NDF}$ : 4668430.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam7\_mean vs Slug



Right In:  $-49.110 \pm 28.836$   $\chi^2/\text{NDF}$ : 9.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $27.402 \pm 26.459$   $\chi^2/\text{NDF}$ : 31.0/16

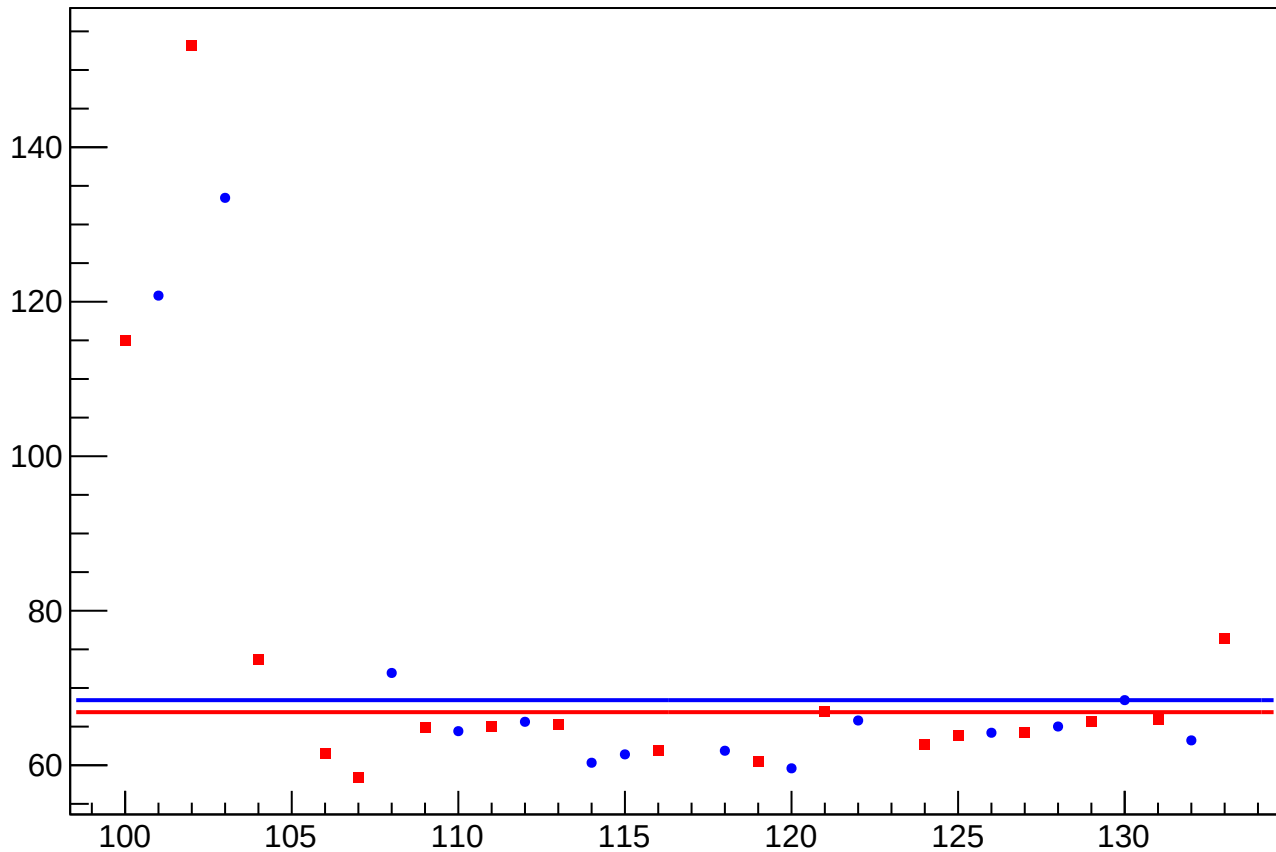
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-7.572 \pm 19.496$   $\chi^2/\text{NDF}$ : 44.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam7\_rms vs Slug



Right In: 68.423+/-0.020  $\chi^2/\text{NDF}$ : 567106.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 66.871+/-0.019  $\chi^2/\text{NDF}$ : 483672.8/16

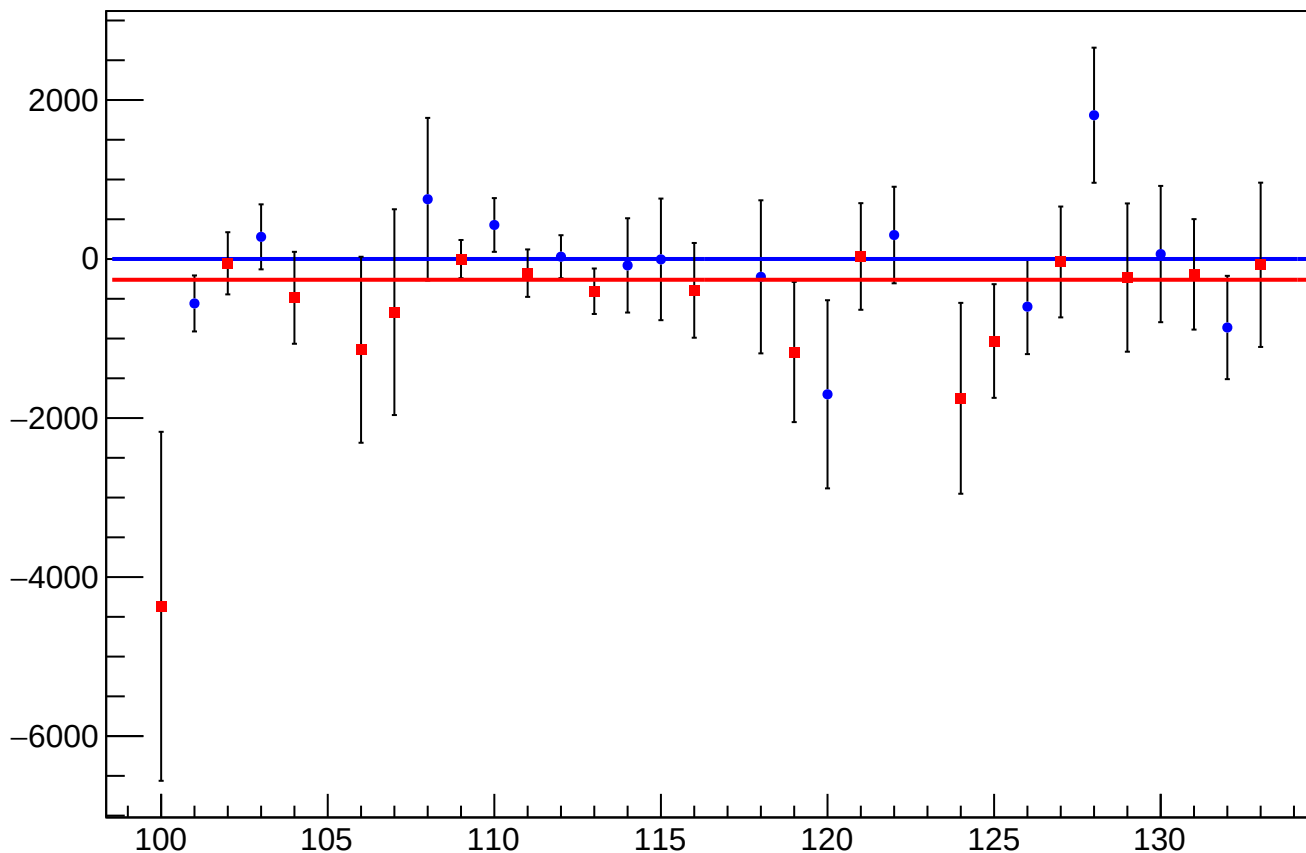
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.580+/-0.014  $\chi^2/\text{NDF}$ : 1053926.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_cor\_correction\_mean vs Slug



Right In: 0.605+/-135.526  $\chi^2/\text{NDF}$ : 14.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -260.824+/-122.099  $\chi^2/\text{NDF}$ : 10.3/16

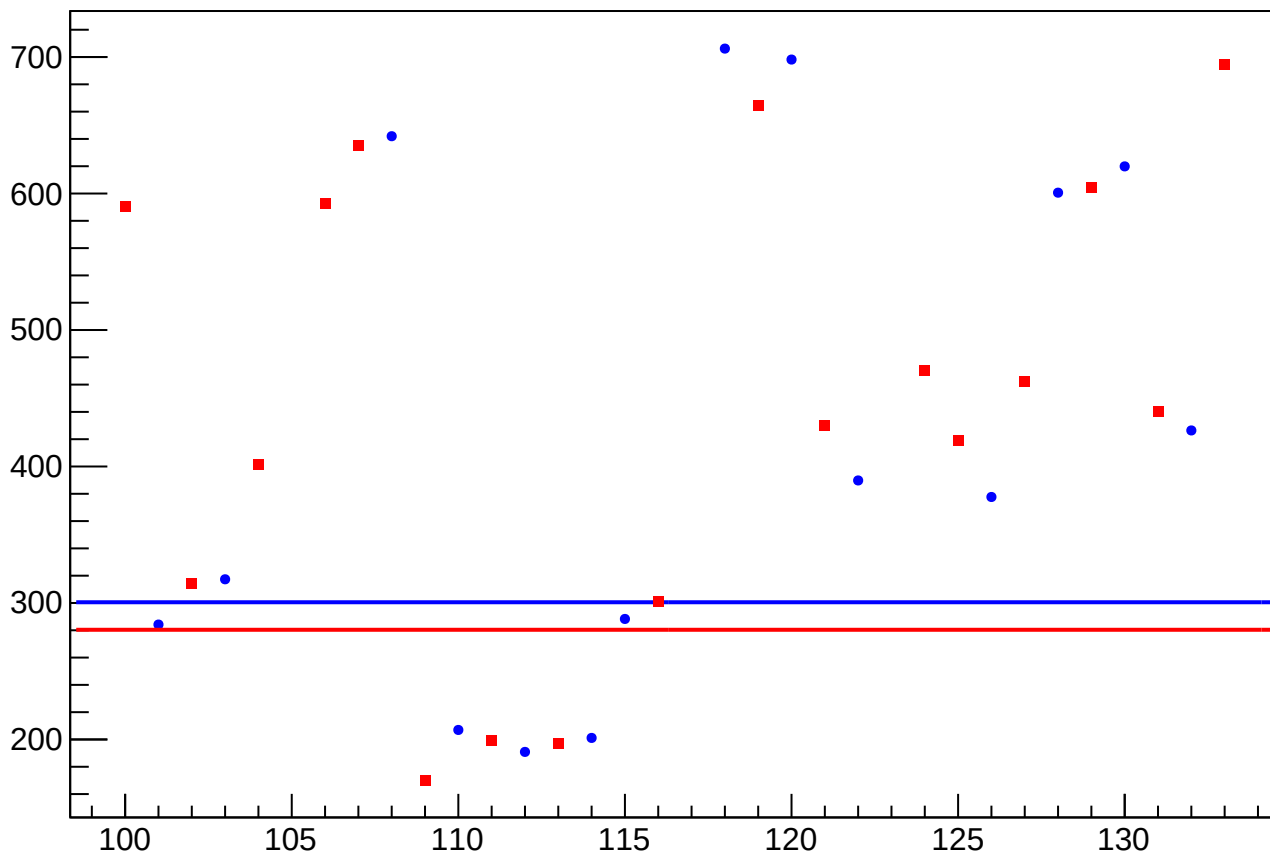
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -143.697+/-90.714  $\chi^2/\text{NDF}$ : 27.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_cor\_correction\_rms vs Slug



Right In: 300.534+/-0.096  $\chi^2/\text{NDF}$ : 2030056.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 280.369+/-0.086  $\chi^2/\text{NDF}$ : 2589239.4/16

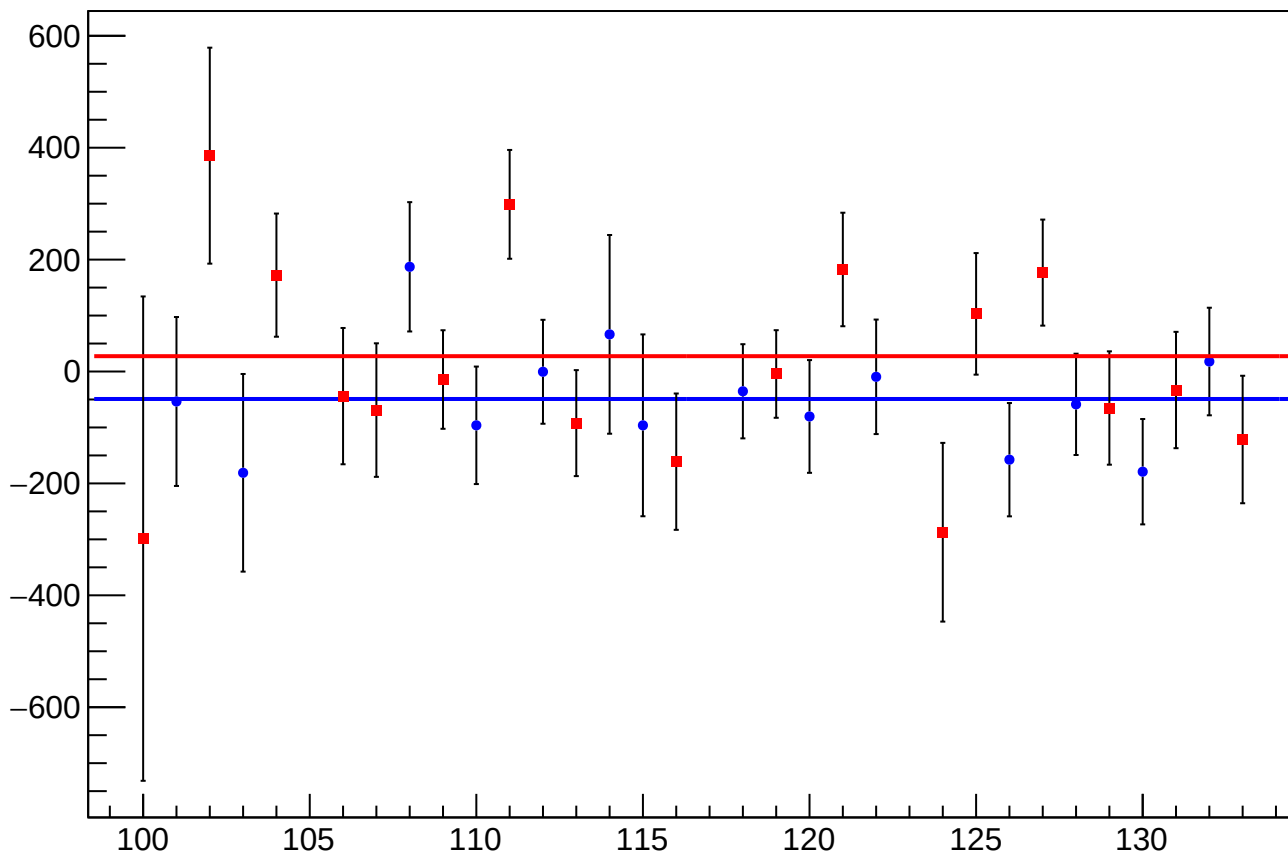
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 289.403+/-0.064  $\chi^2/\text{NDF}$ : 4643736.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam7\_mean vs Slug



Right In: -49.110 $\pm$ 28.836  $\chi^2$ /NDF: 9.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27.402 $\pm$ 26.459  $\chi^2$ /NDF: 31.0/16

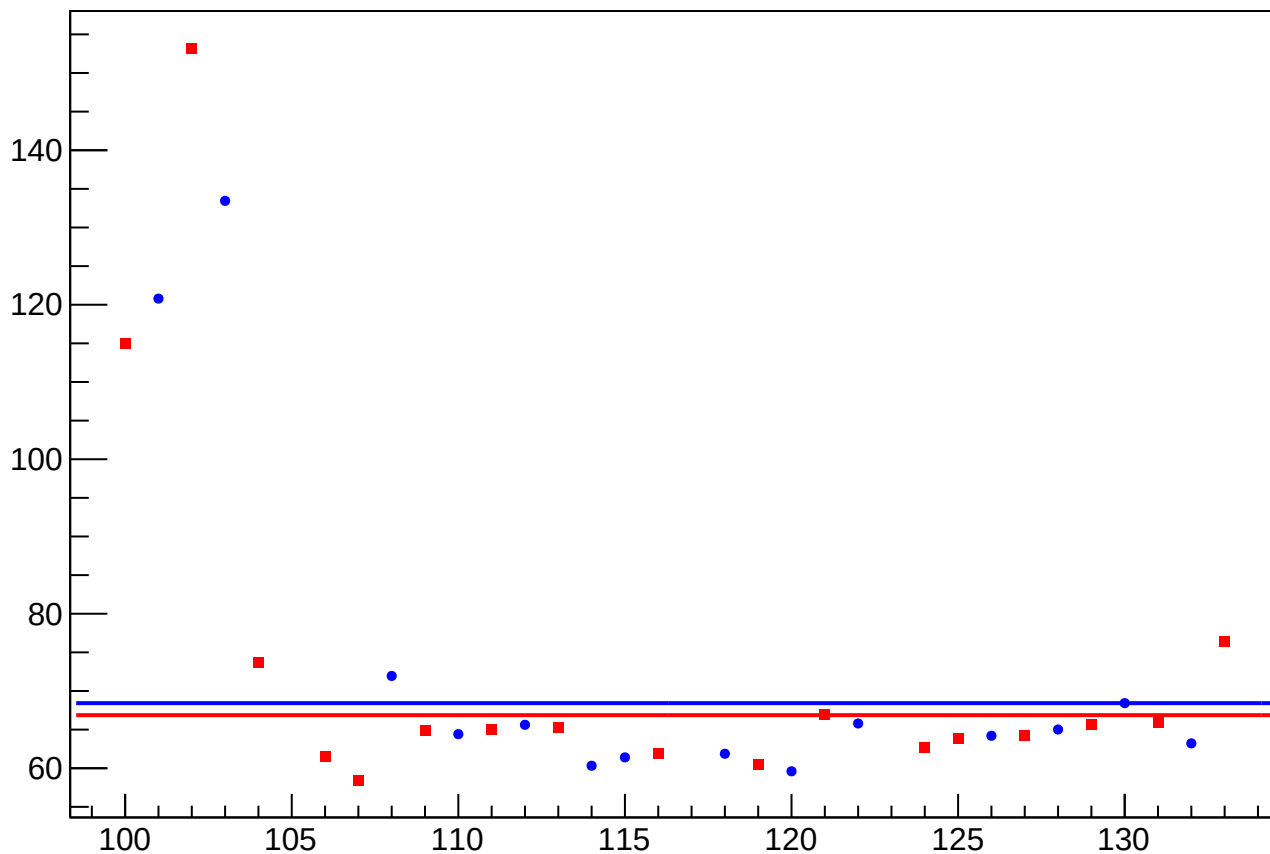
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -7.572 $\pm$ 19.496  $\chi^2$ /NDF: 44.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam7\_rms vs Slug



Right In: 68.423+/-0.020  $\chi^2/\text{NDF}$ : 567106.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 66.871+/-0.019  $\chi^2/\text{NDF}$ : 483672.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

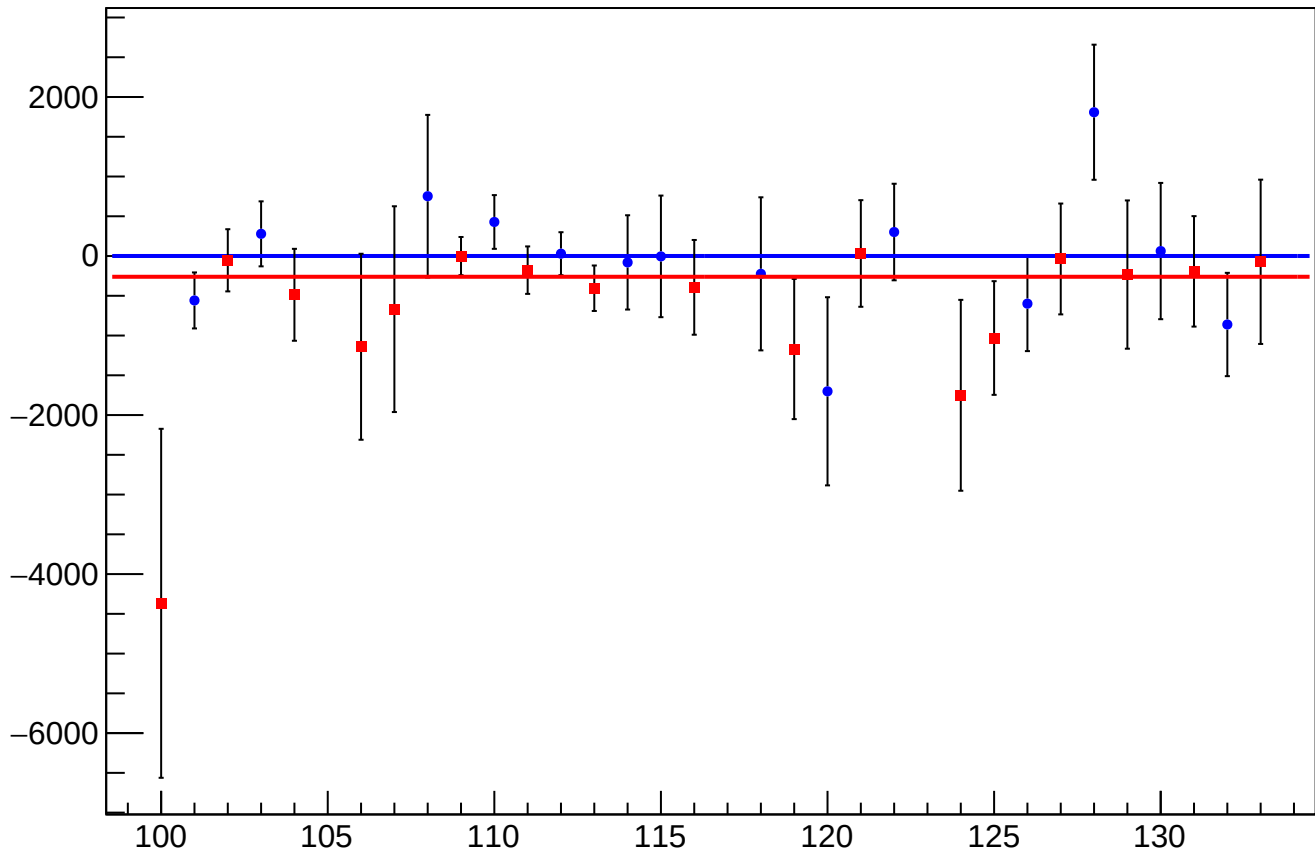
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.580+/-0.014  $\chi^2/\text{NDF}$ : 1053926.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam7\_eigen\_cor\_correction\_mean vs Slug



Right In: 0.605+/-135.526  $\chi^2/\text{NDF}$ : 14.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -260.824+/-122.099  $\chi^2/\text{NDF}$ : 10.3/16

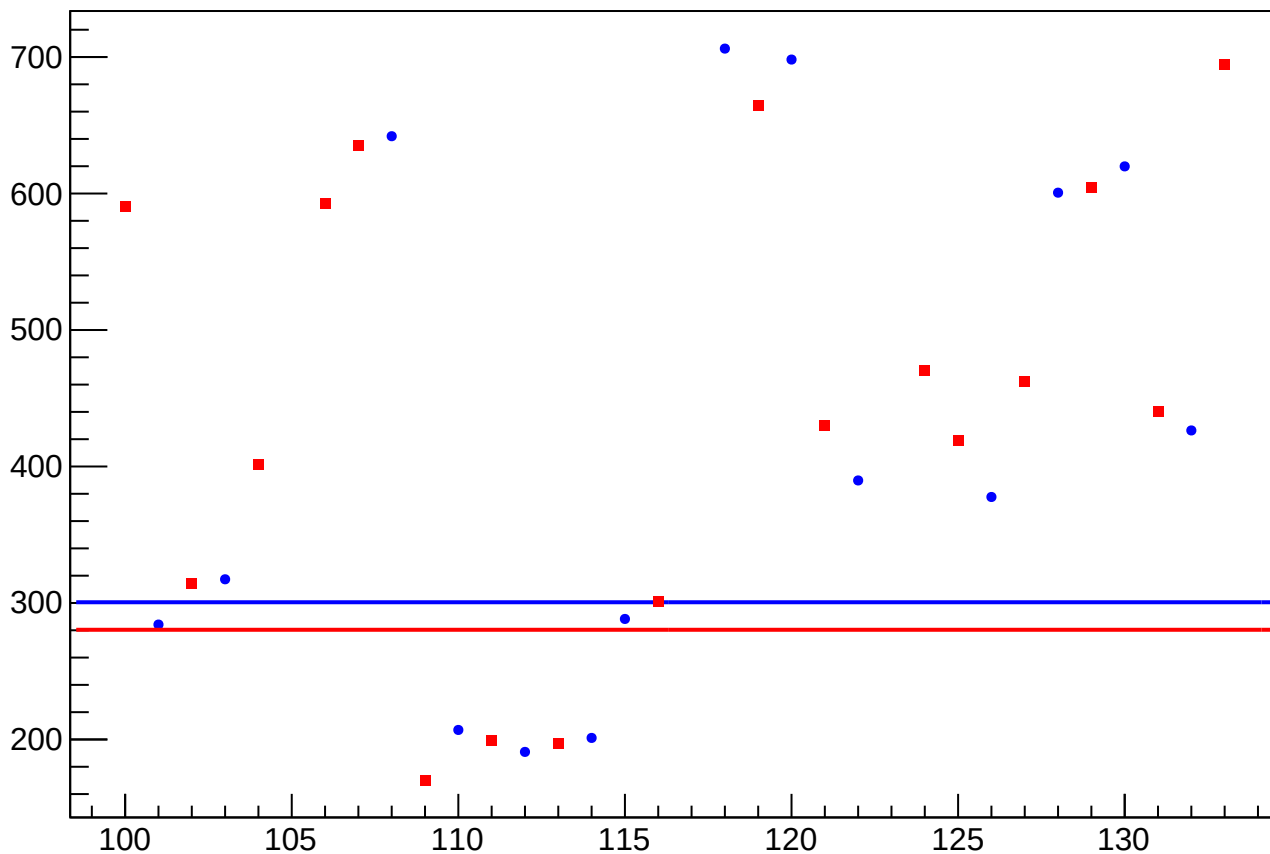
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -143.697+/-90.714  $\chi^2/\text{NDF}$ : 27.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_eigen\_cor\_correction\_rms vs Slug



Right In:  $300.534 \pm 0.096$   $\chi^2/\text{NDF}$ : 2030056.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $280.369 \pm 0.086$   $\chi^2/\text{NDF}$ : 2589239.4/16

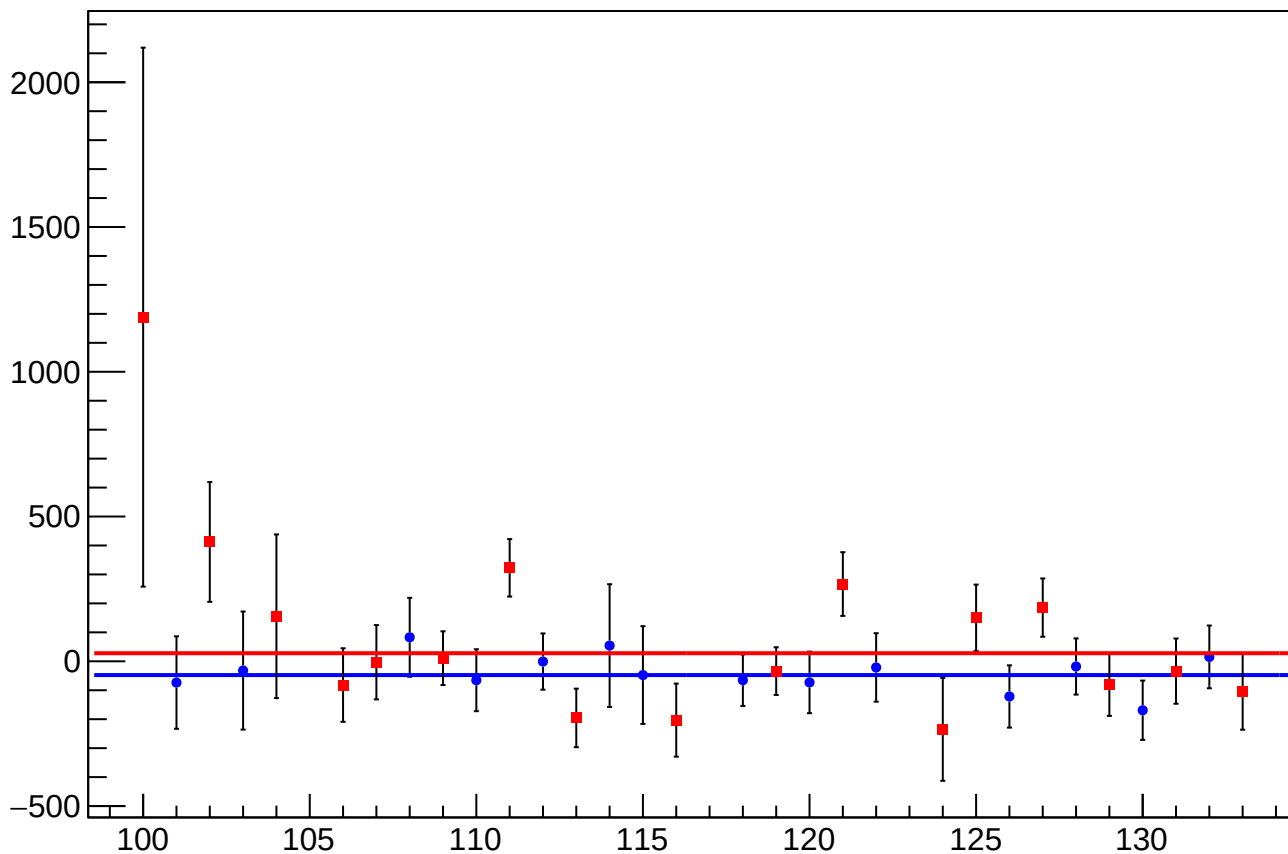
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $289.403 \pm 0.064$   $\chi^2/\text{NDF}$ : 4643736.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam7\_mean vs Slug



Right In:  $-47.602 \pm 31.194$   $\chi^2/\text{NDF}$ : 3.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $27.941 \pm 28.899$   $\chi^2/\text{NDF}$ : 36.5/16

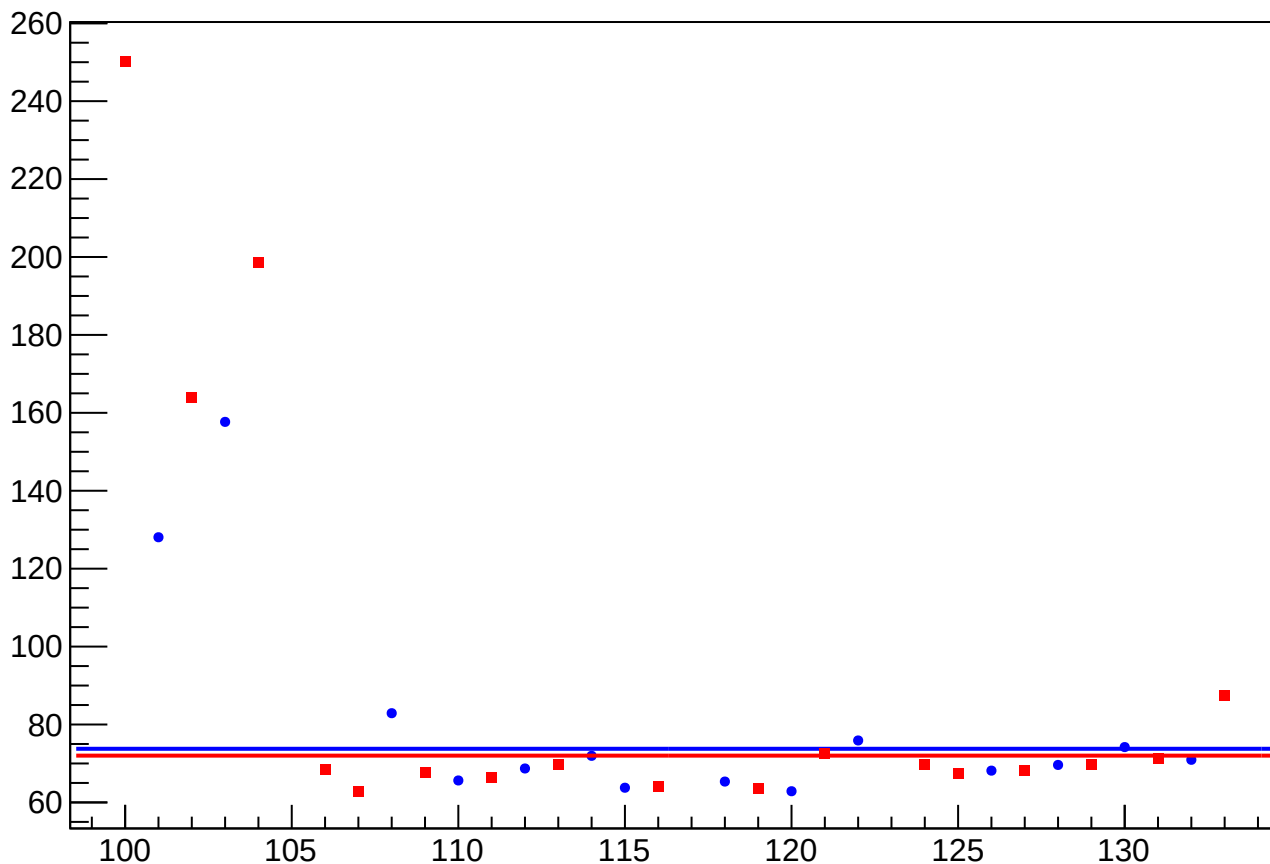
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-6.949 \pm 21.199$   $\chi^2/\text{NDF}$ : 43.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam7\_rms vs Slug



Right In: 73.769+/-0.022  $\chi^2/\text{NDF}$ : 652939.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 72.012+/-0.020  $\chi^2/\text{NDF}$ : 957410.2/16

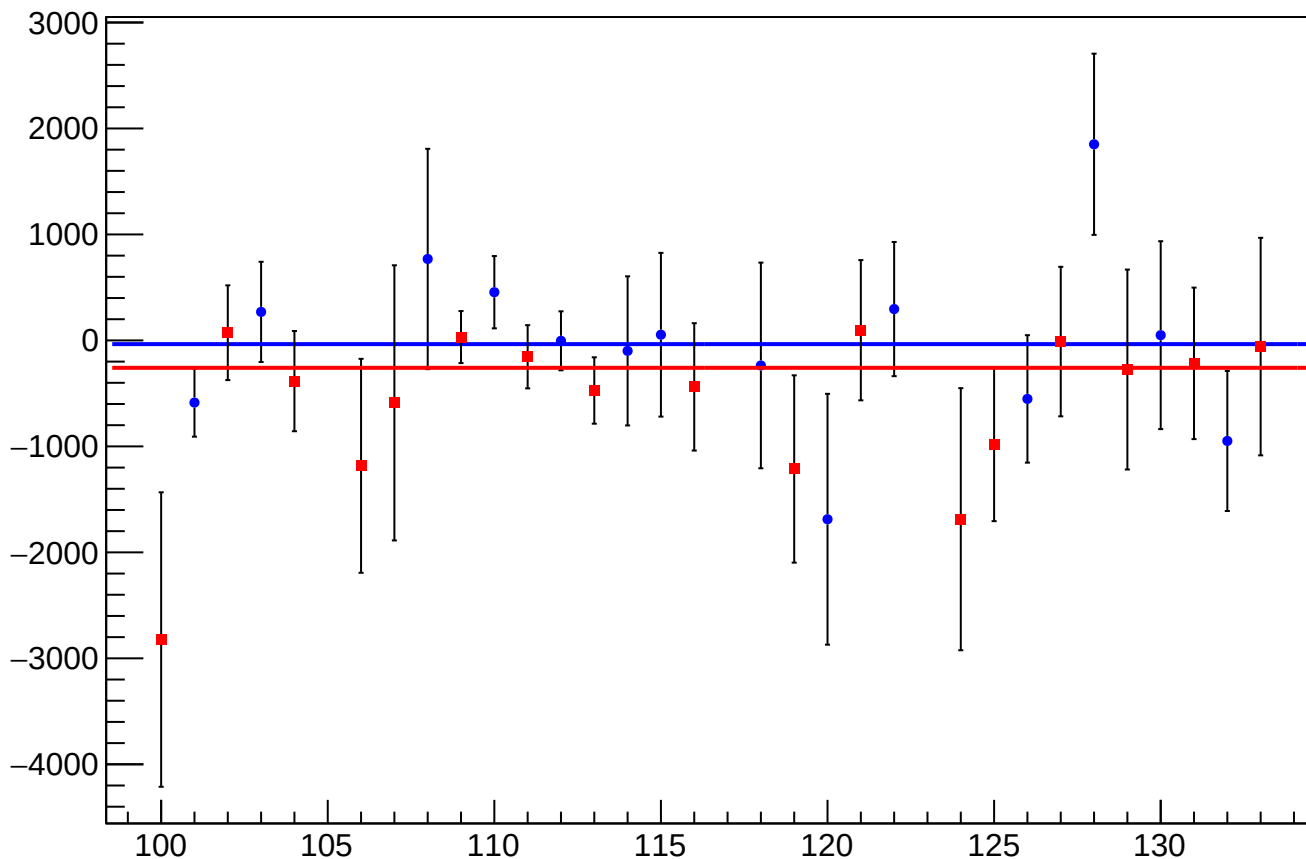
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 72.824+/-0.015  $\chi^2/\text{NDF}$ : 1613763.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_dit\_correction\_mean vs Slug



Right In:  $-35.005 \pm 138.365$   $\chi^2/\text{NDF}$ : 15.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-258.509 \pm 124.469$   $\chi^2/\text{NDF}$ : 11.0/16

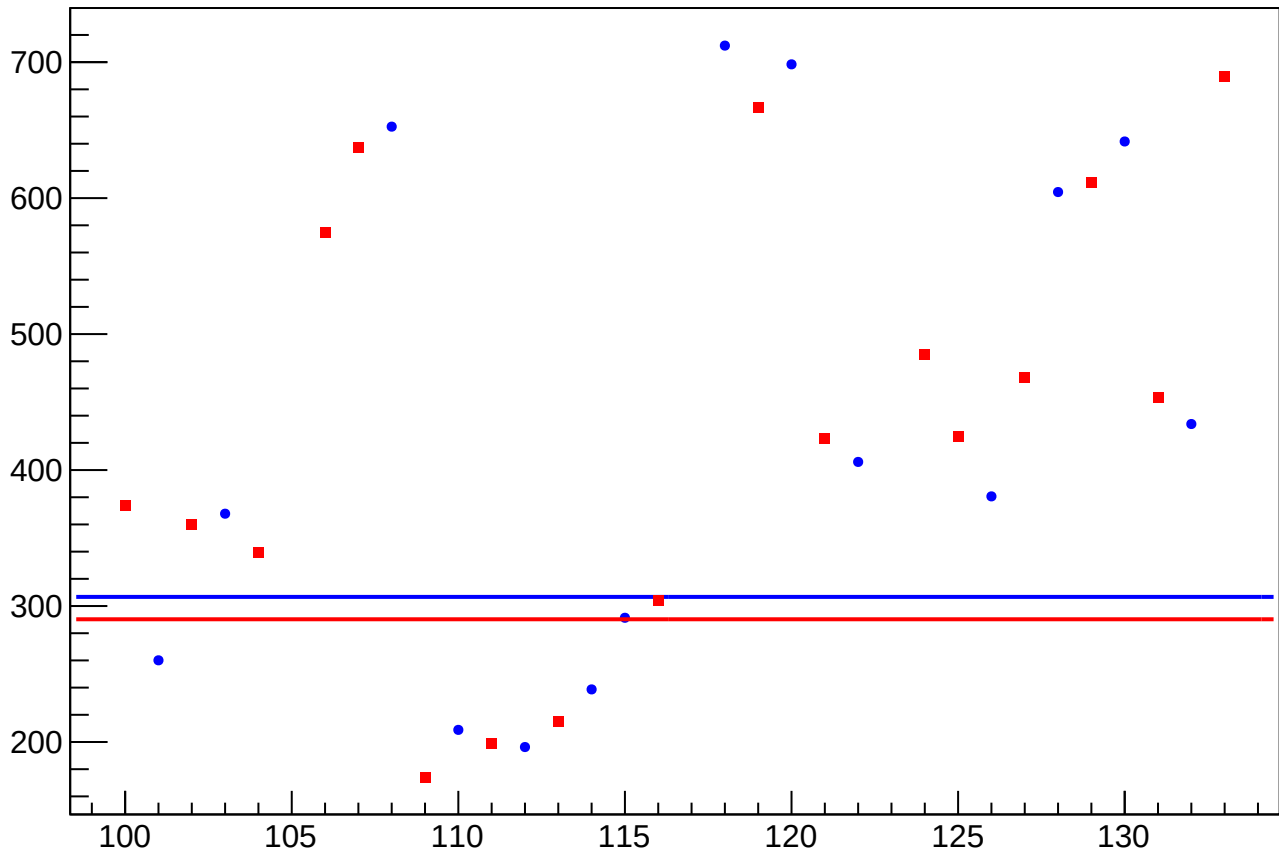
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-158.541 \pm 92.537$   $\chi^2/\text{NDF}$ : 28.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_dit\_correction\_rms vs Slug



Right In: 306.714 $\pm$ 0.098  $\chi^2$ /NDF: 2045474.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 290.257 $\pm$ 0.088  $\chi^2$ /NDF: 2458060.1/16

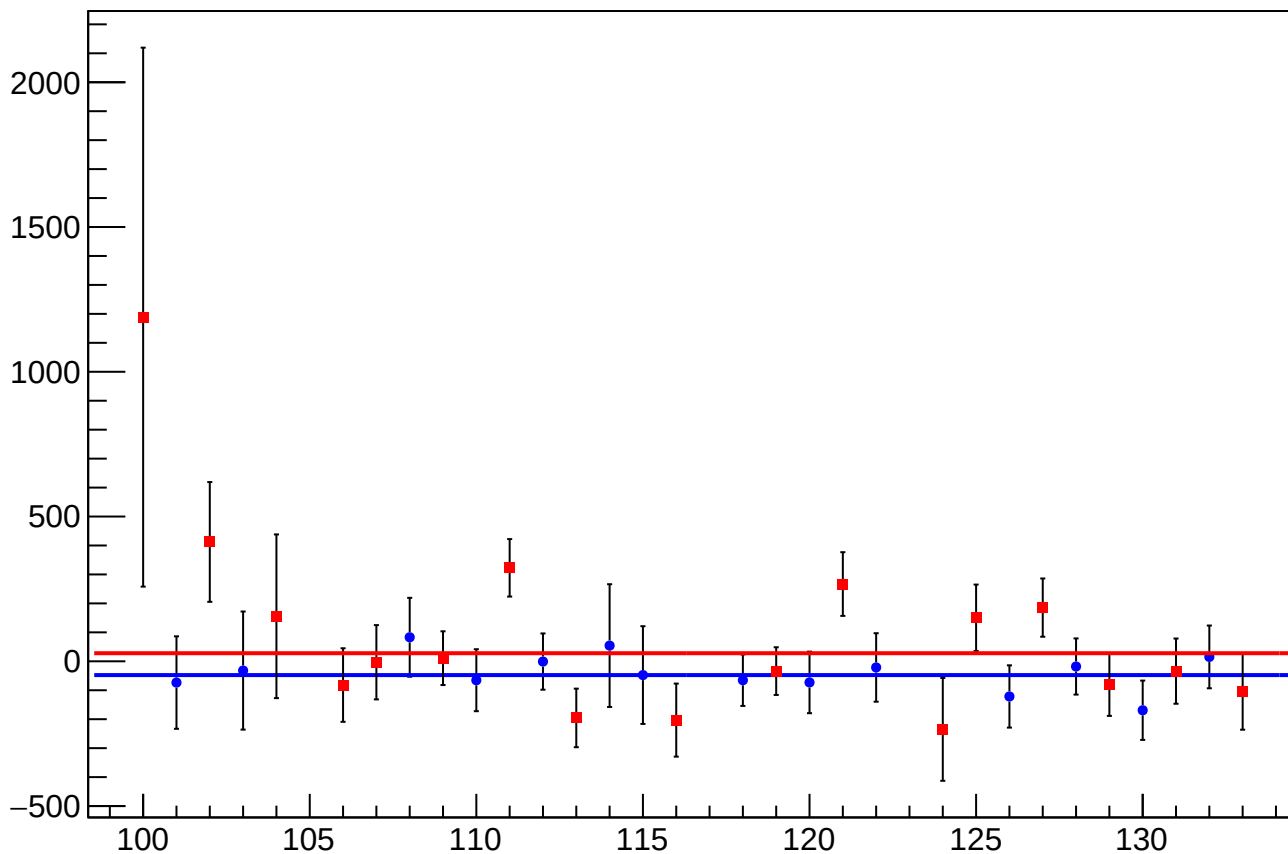
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 297.618 $\pm$ 0.065  $\chi^2$ /NDF: 4519173.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam7\_mean vs Slug



Right In: -47.602 $\pm$ 31.194  $\chi^2$ /NDF: 3.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27.942 $\pm$ 28.898  $\chi^2$ /NDF: 36.5/16

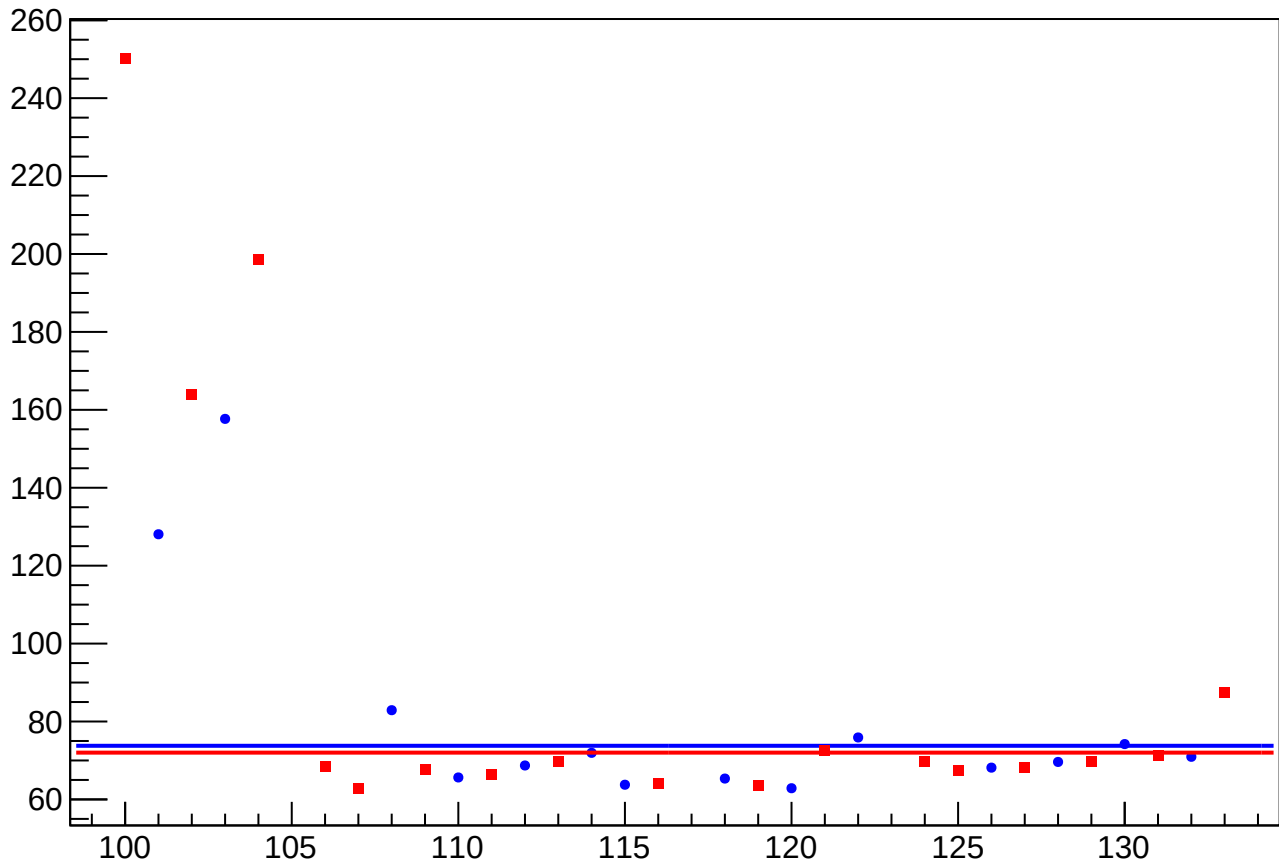
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.948 $\pm$ 21.199  $\chi^2$ /NDF: 43.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam7\_rms vs Slug



Right In: 73.769+/-0.022  $\chi^2/\text{NDF}$ : 652941.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 72.012+/-0.020  $\chi^2/\text{NDF}$ : 957411.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

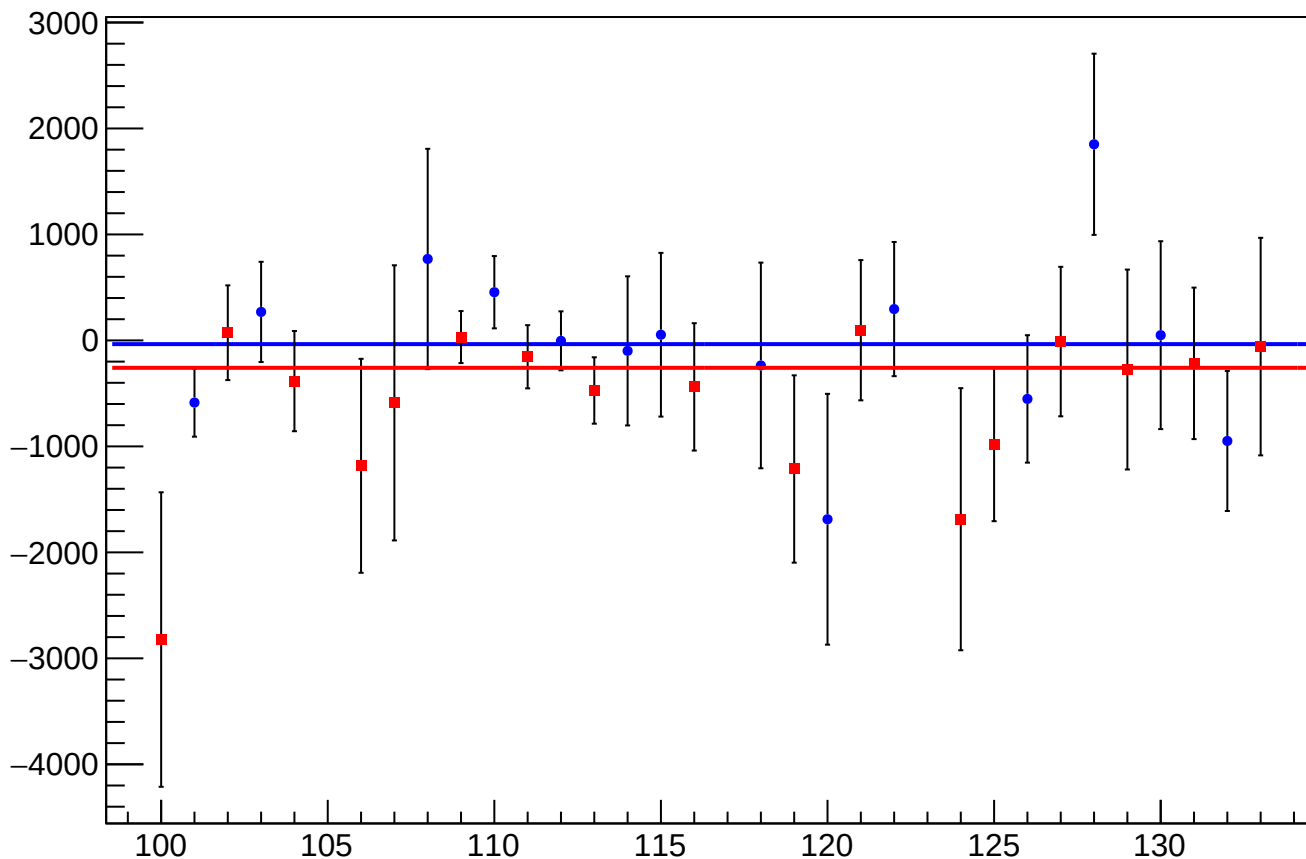
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 72.823+/-0.015  $\chi^2/\text{NDF}$ : 1613766.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam7\_eigen\_dit\_correction\_mean vs Slug



Right In: -35.005+/-138.364  $\chi^2/\text{NDF}$ : 15.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -258.507+/-124.468  $\chi^2/\text{NDF}$ : 11.0/16

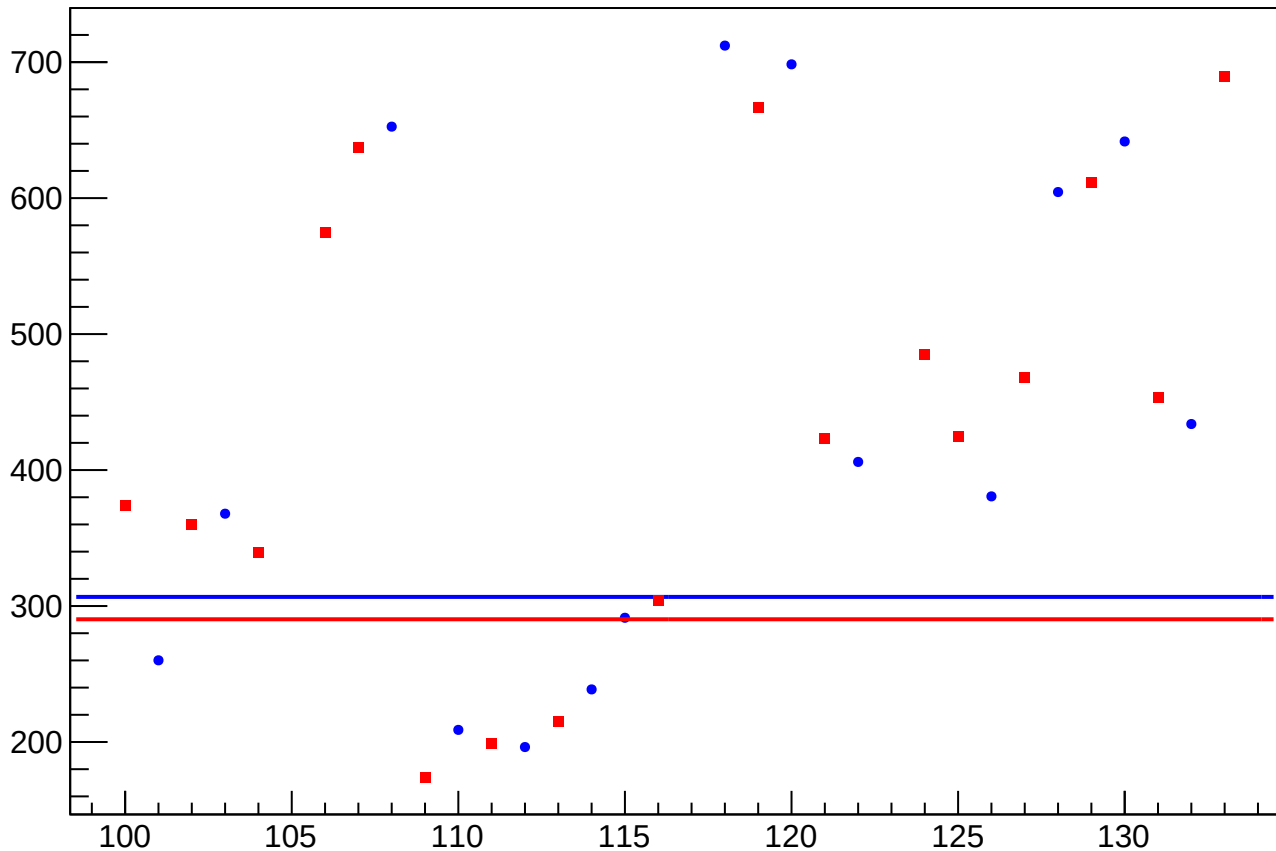
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -158.540+/-92.536  $\chi^2/\text{NDF}$ : 28.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_eigen\_dit\_correction\_rms vs Slug



Right In: 306.711+/-0.098  $\chi^2/\text{NDF}$ : 2045501.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 290.255+/-0.088  $\chi^2/\text{NDF}$ : 2458069.7/16

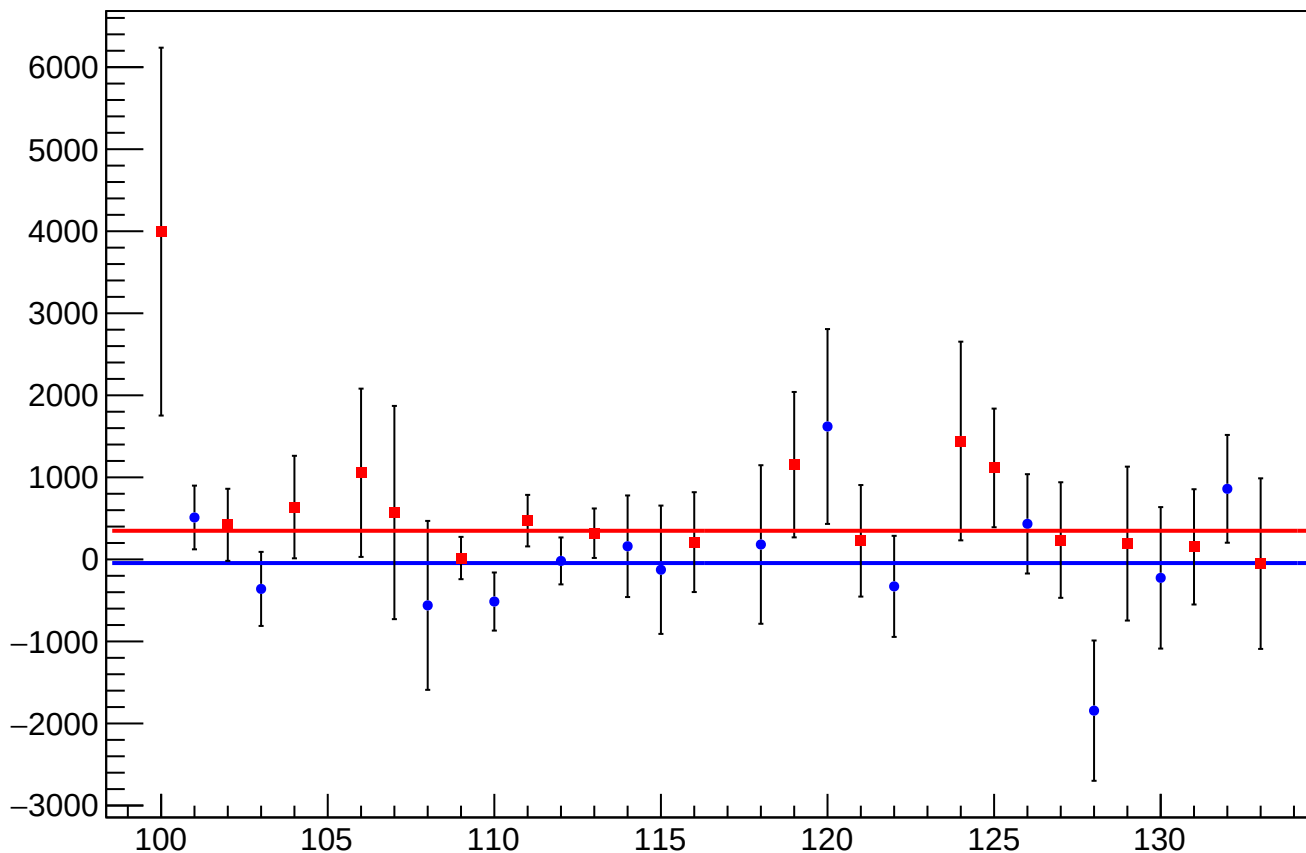
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 297.616+/-0.065  $\chi^2/\text{NDF}$ : 4519208.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_mean vs Slug



Right In:  $-44.683 \pm 142.712$   $\chi^2/\text{NDF}$ : 13.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $348.768 \pm 128.549$   $\chi^2/\text{NDF}$ : 8.3/16

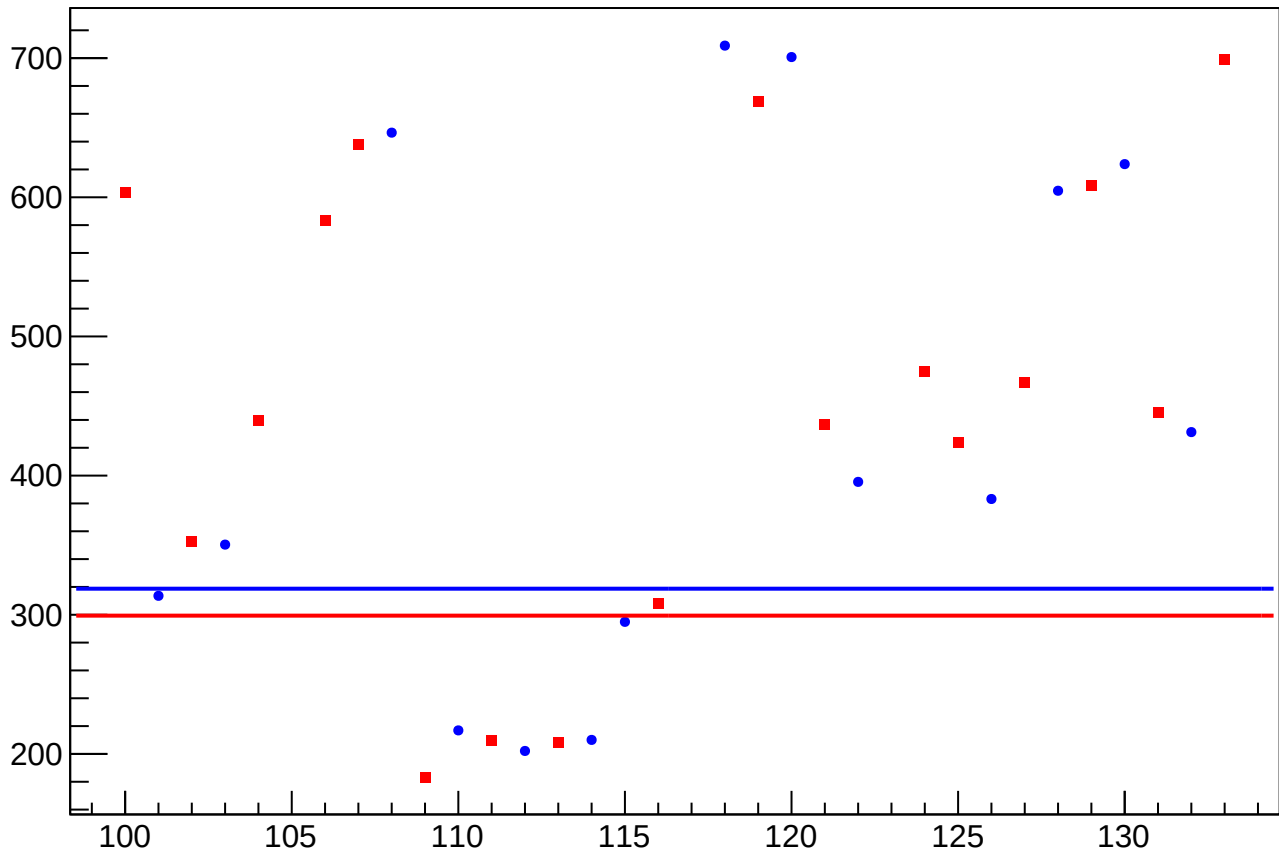
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $172.528 \pm 95.514$   $\chi^2/\text{NDF}$ : 26.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_rms vs Slug



Right In: 318.736+/-0.101  $\chi^2/\text{NDF}$ : 1893576.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 299.372+/-0.091  $\chi^2/\text{NDF}$ : 2452173.3/16

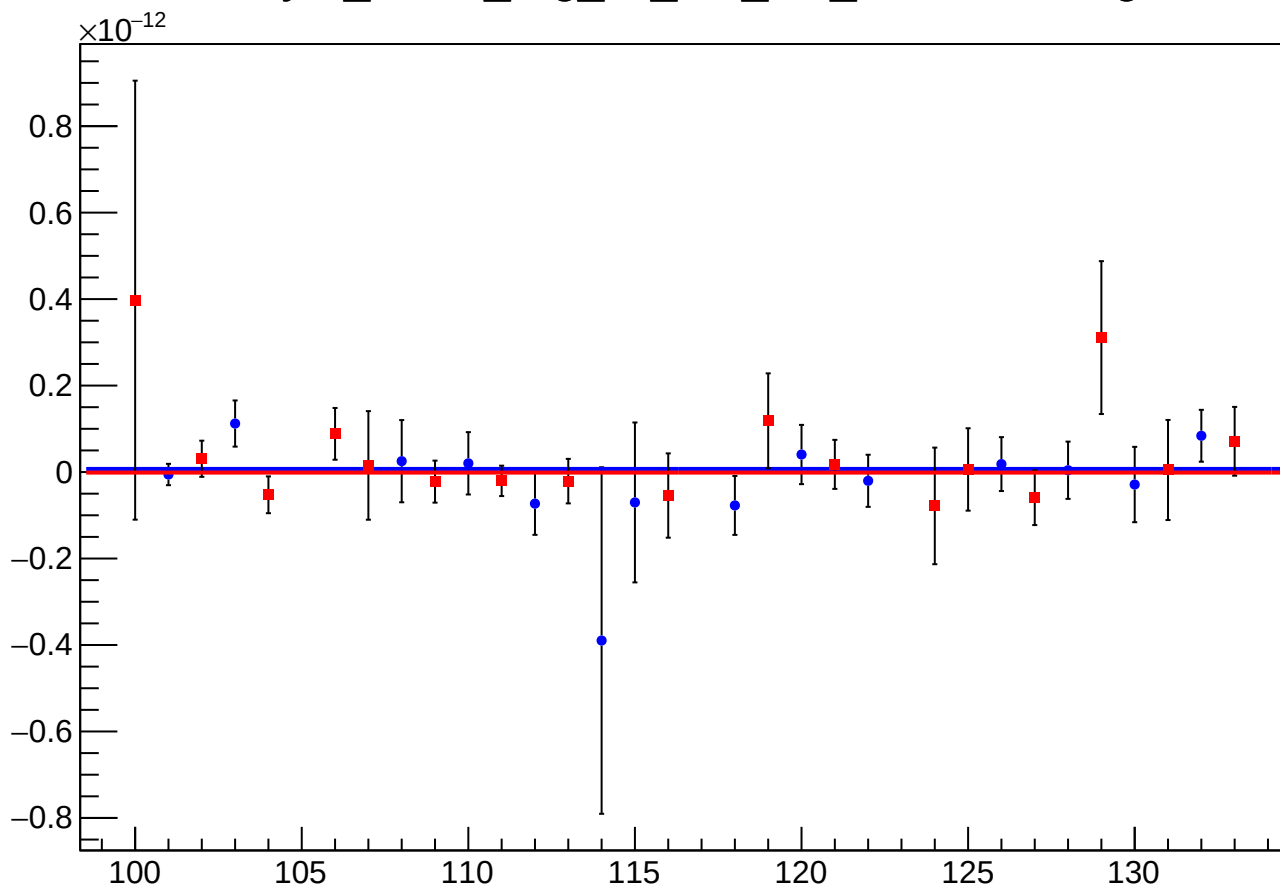
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 308.045+/-0.068  $\chi^2/\text{NDF}$ : 4366077.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 10.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 12.3/16

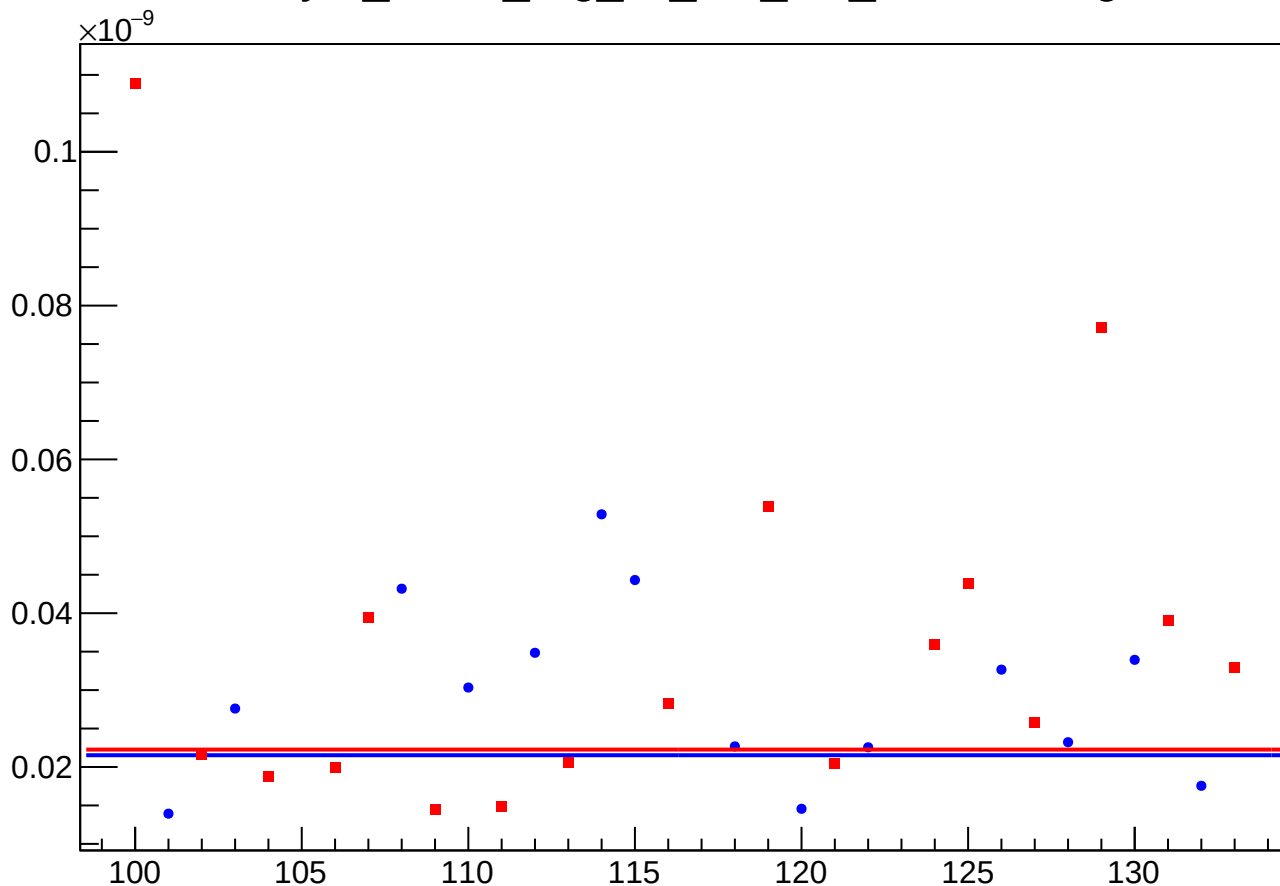
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 22.8/30

- 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+/-0.000  $\chi^2/\text{NDF}$ : 595971.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 830161.5/16

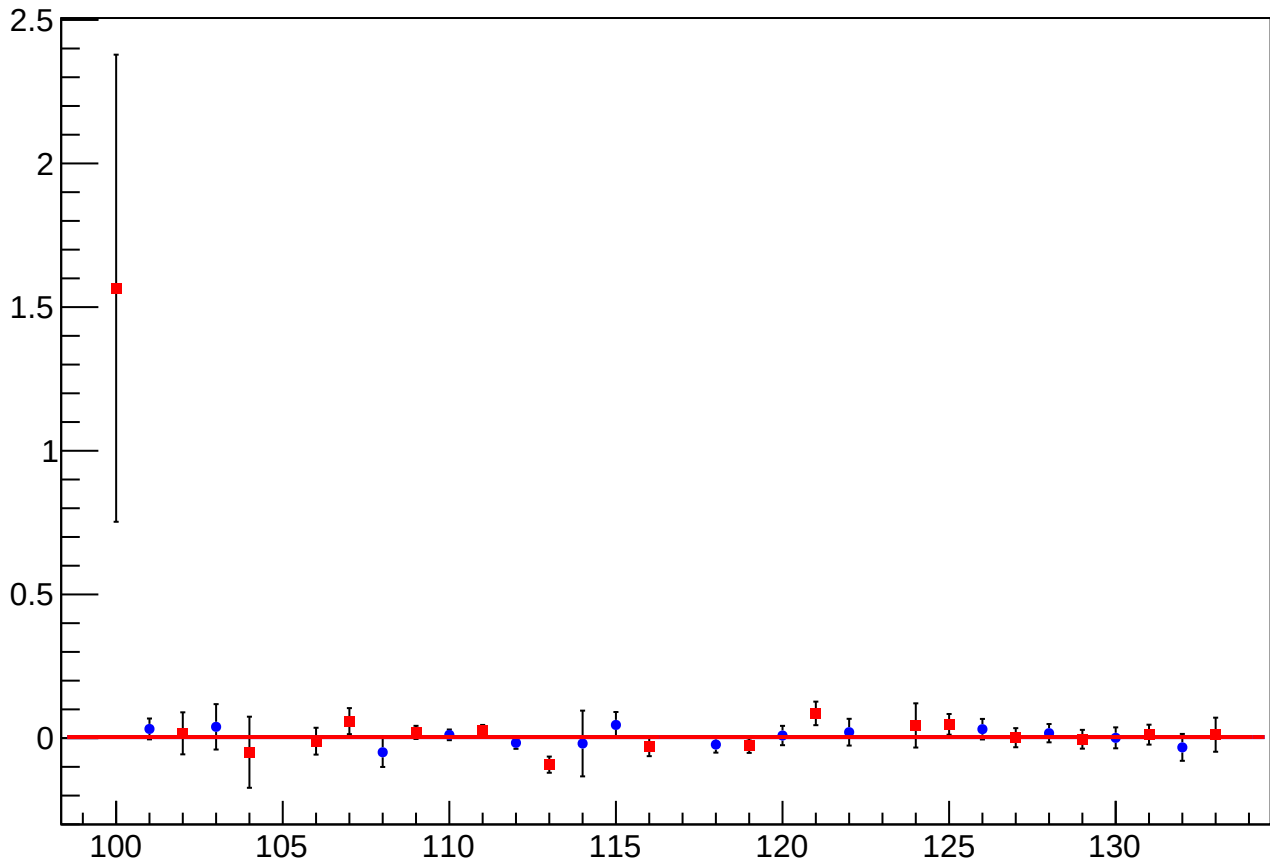
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1428372.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.004 $\pm$ 0.009  $\chi^2$ /NDF: 6.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.008  $\chi^2$ /NDF: 27.5/16

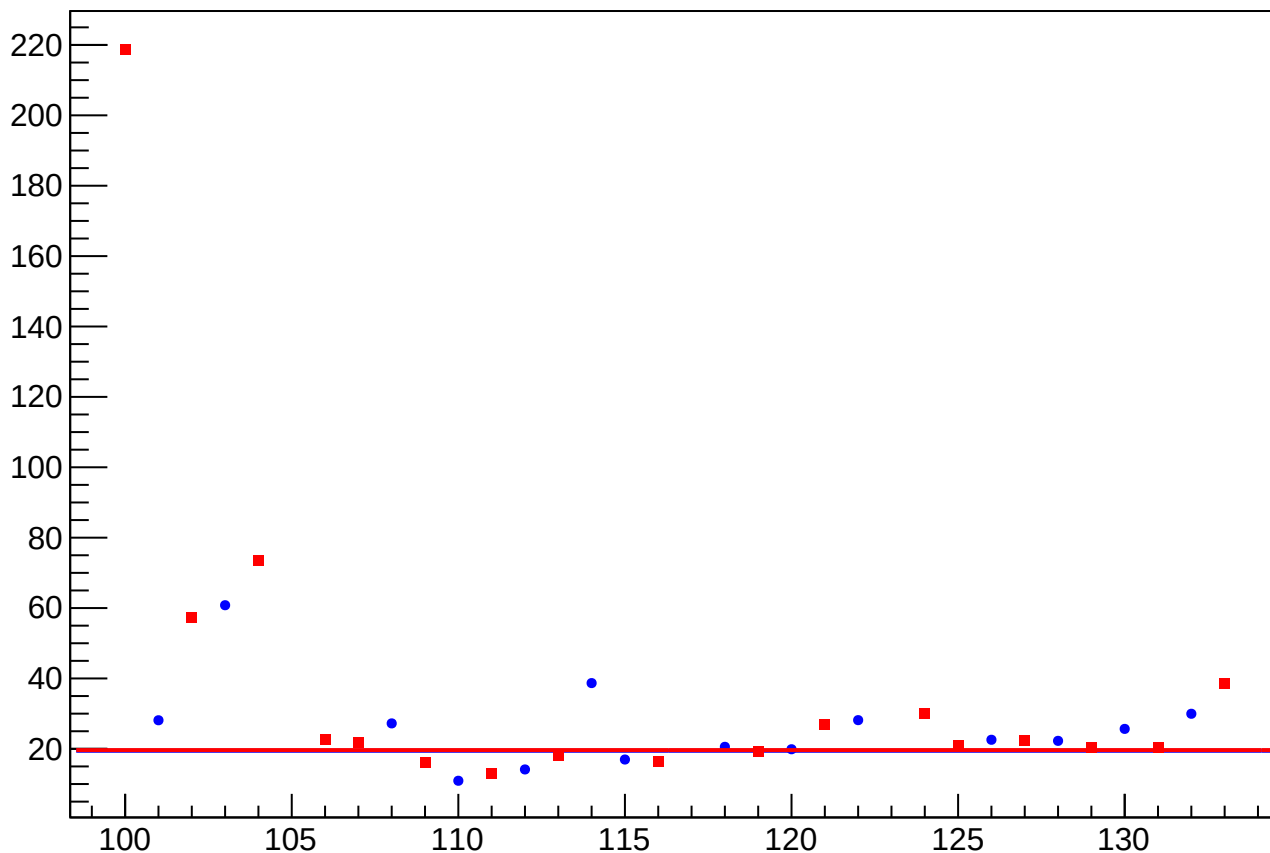
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.006  $\chi^2$ /NDF: 33.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 19.457+/-0.006  $\chi^2/\text{NDF}$ : 1584216.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.643+/-0.006  $\chi^2/\text{NDF}$ : 1672041.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

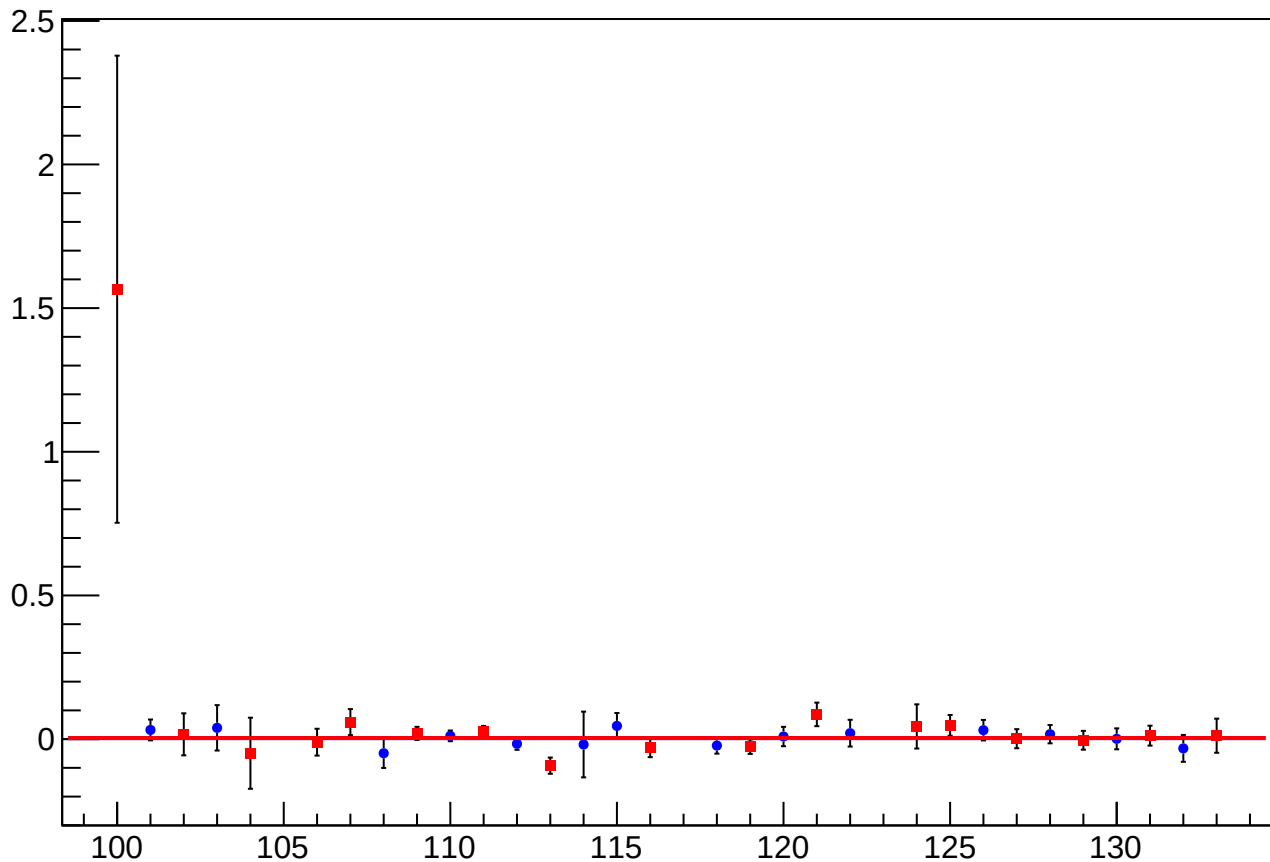
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.555+/-0.004  $\chi^2/\text{NDF}$ : 3256715.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam7\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.004 $\pm$ 0.009  $\chi^2$ /NDF: 6.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.004 $\pm$ 0.008  $\chi^2$ /NDF: 27.5/16

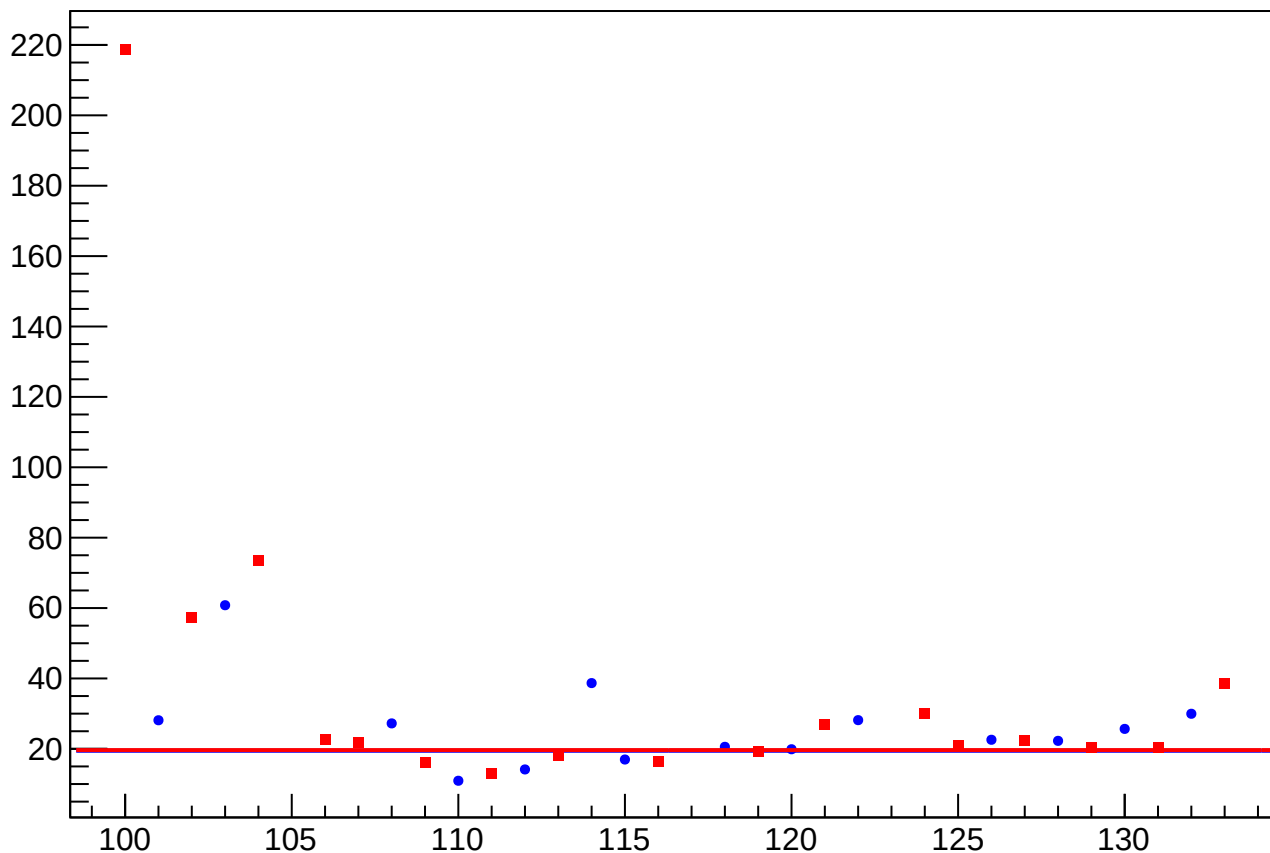
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.006  $\chi^2$ /NDF: 33.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 19.457+/-0.006  $\chi^2$ /NDF: 1584216.1/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.643+/-0.006  $\chi^2$ /NDF: 1672041.7/16

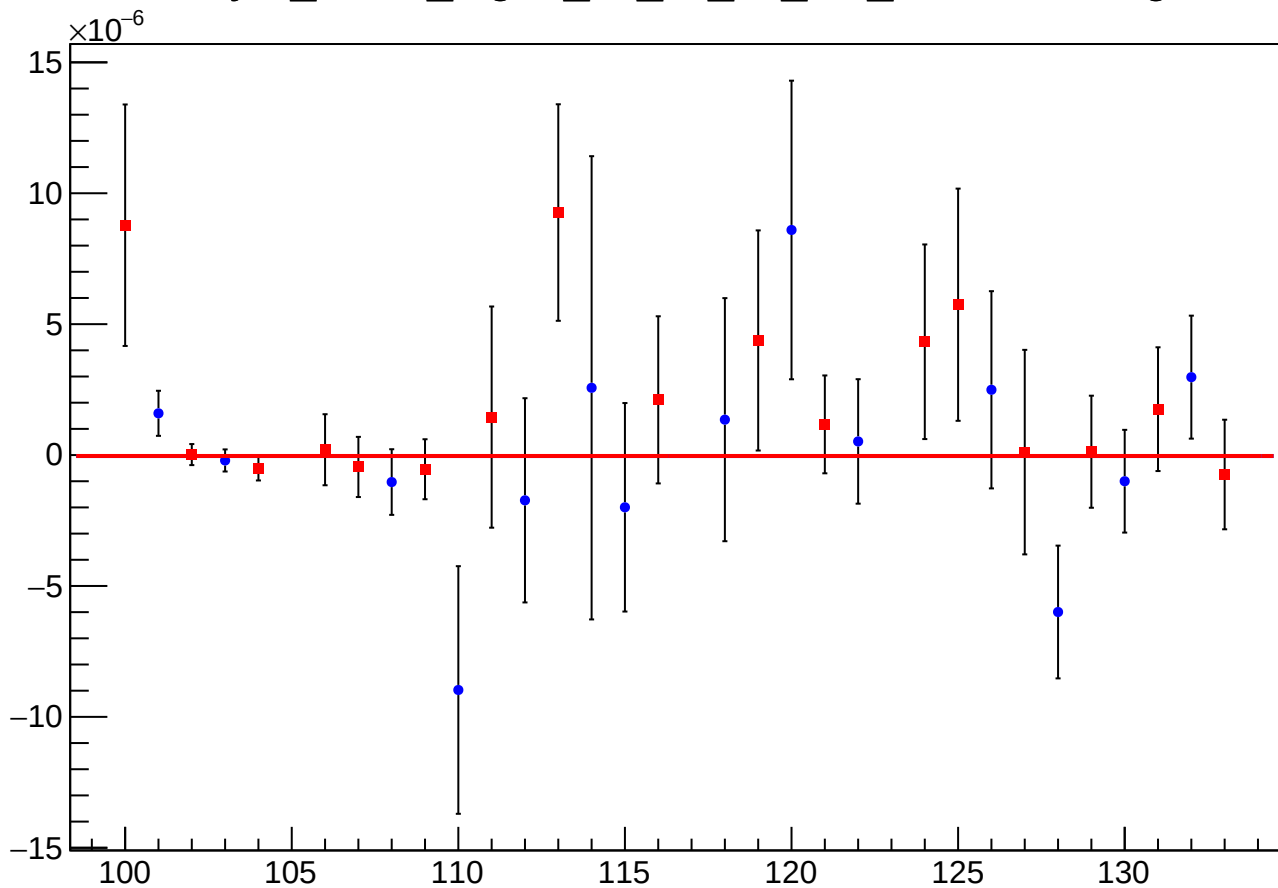
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 19.555+/-0.004  $\chi^2$ /NDF: 3256715.3/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 18.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 16.1/16

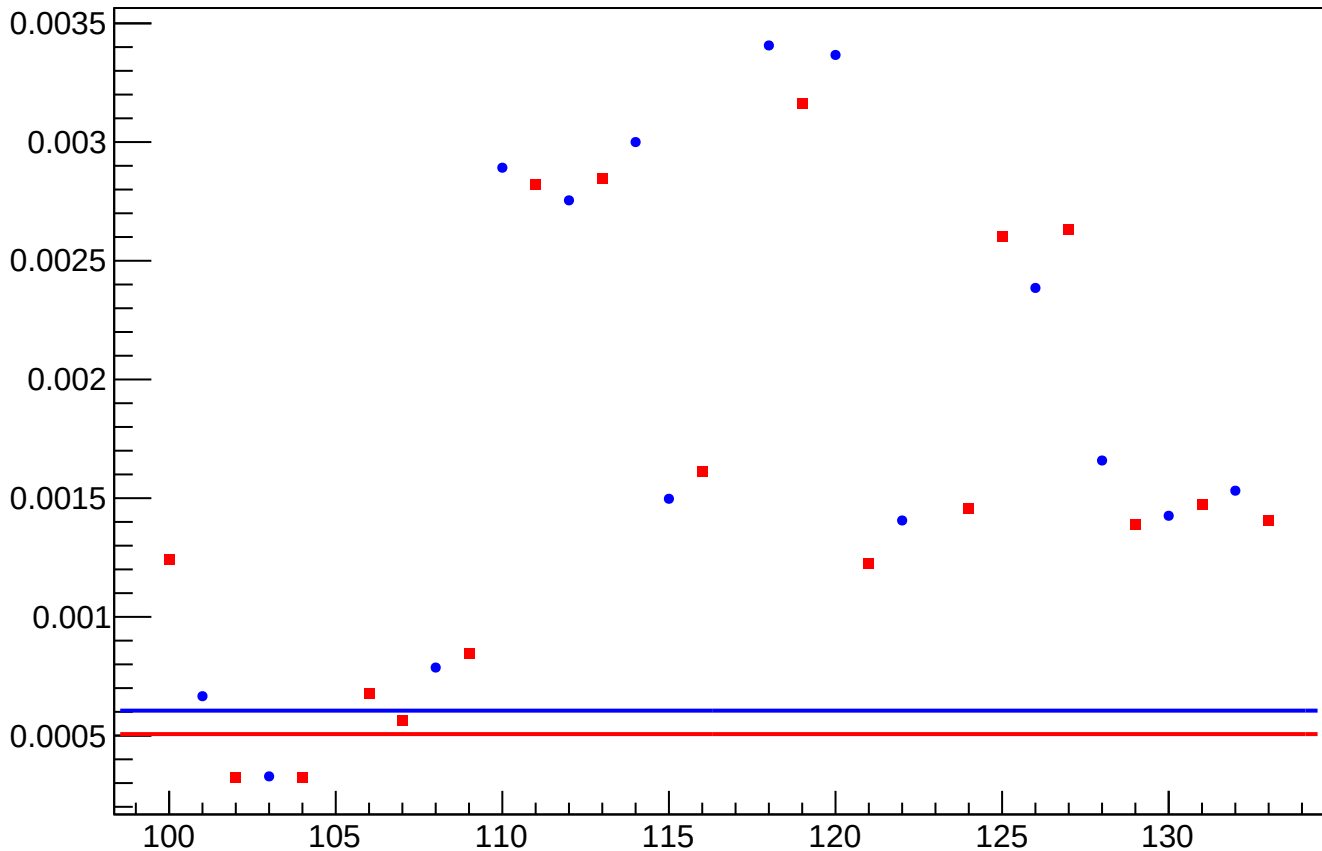
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 34.9/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5113254.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5799380.6/16

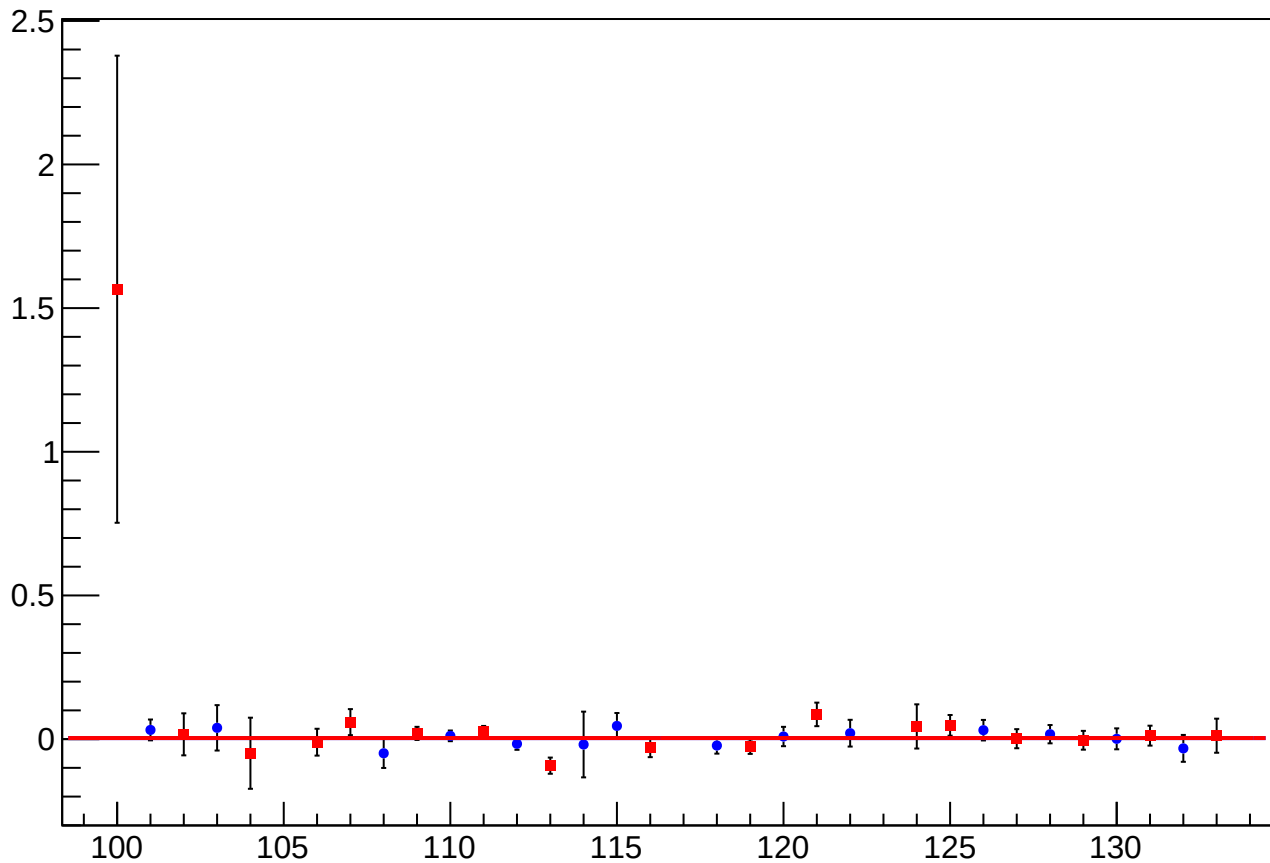
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 11019175.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam7\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.004 $\pm$ 0.009  $\chi^2$ /NDF: 6.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.008  $\chi^2$ /NDF: 27.5/16

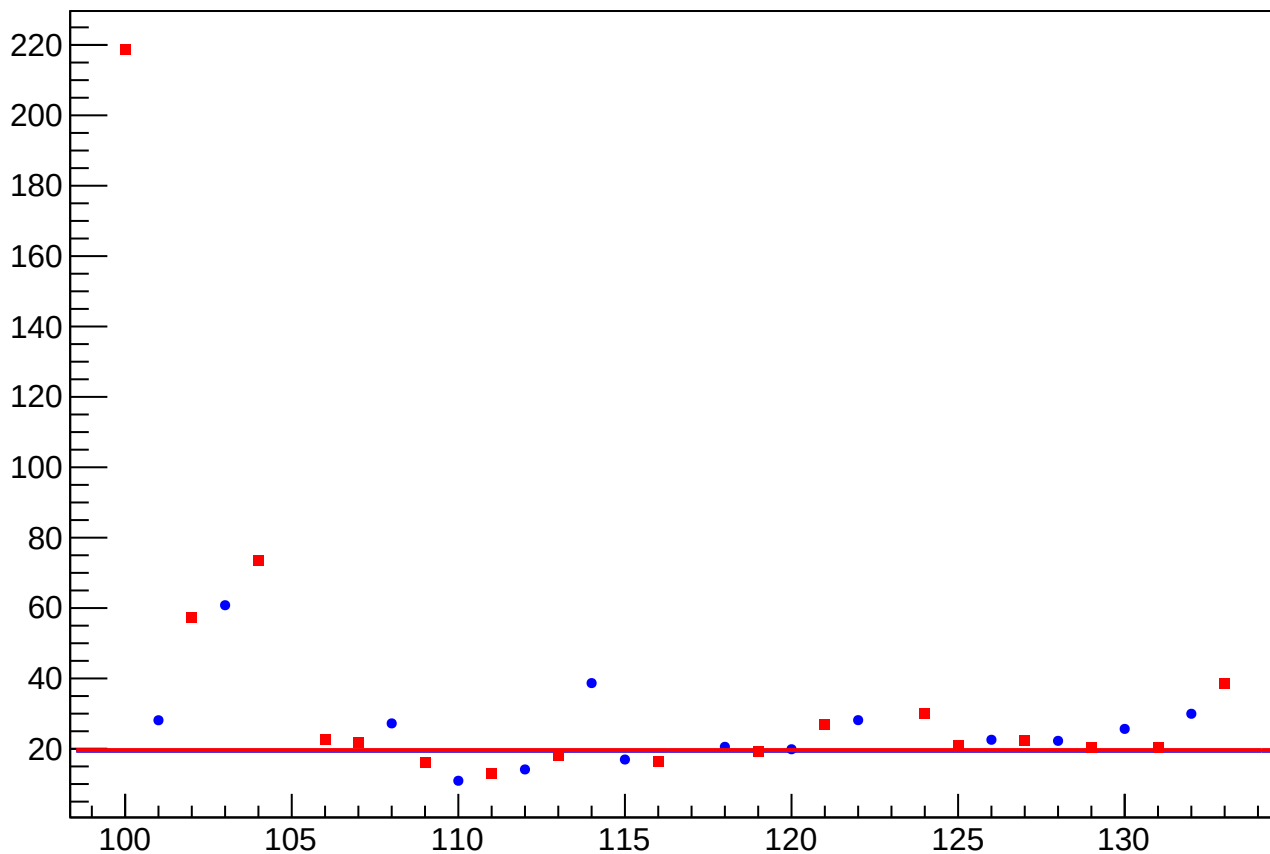
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.006  $\chi^2$ /NDF: 33.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 19.458+/-0.006  $\chi^2/\text{NDF}$ : 1584053.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.643+/-0.006  $\chi^2/\text{NDF}$ : 1671974.5/16

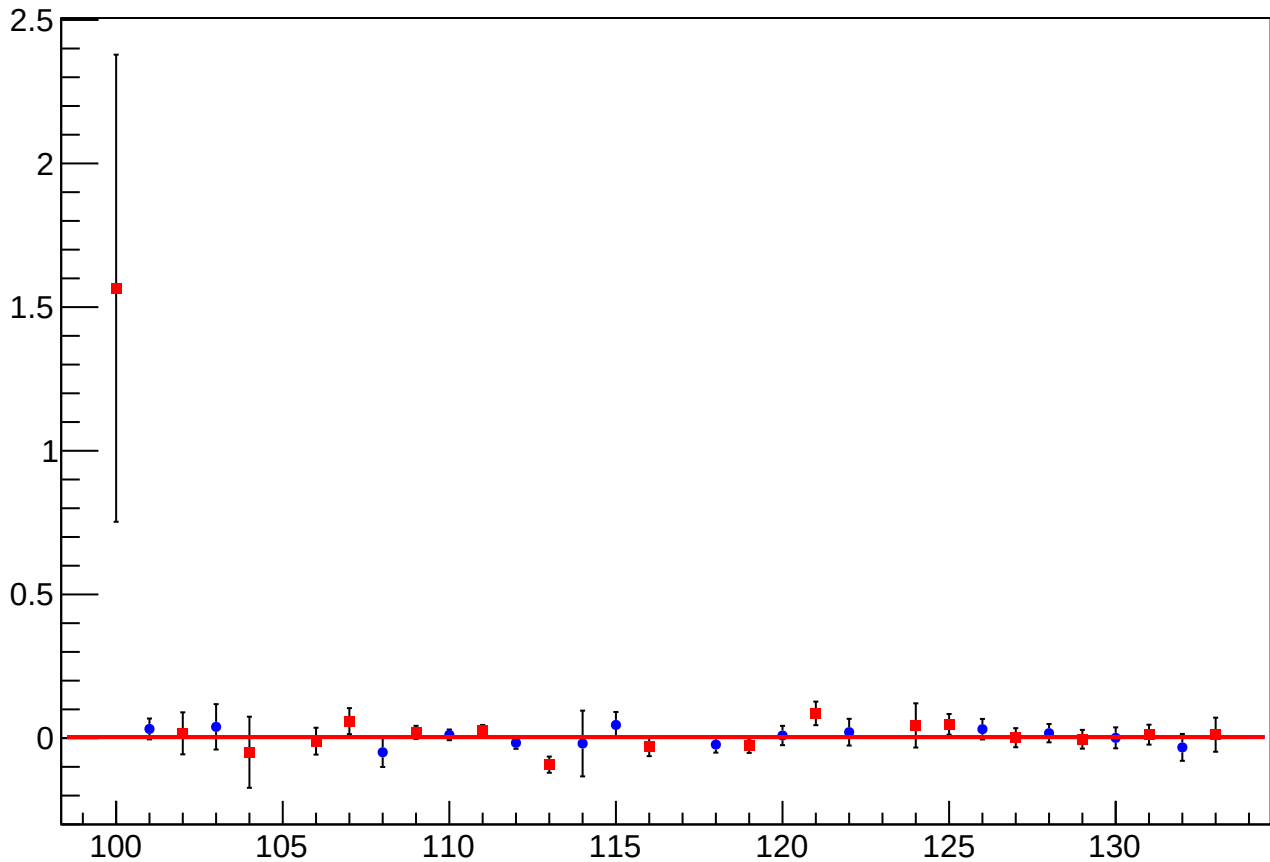
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.555+/-0.004  $\chi^2/\text{NDF}$ : 3256483.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam7\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.004 $\pm$ 0.009  $\chi^2$ /NDF: 6.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.008  $\chi^2$ /NDF: 27.5/16

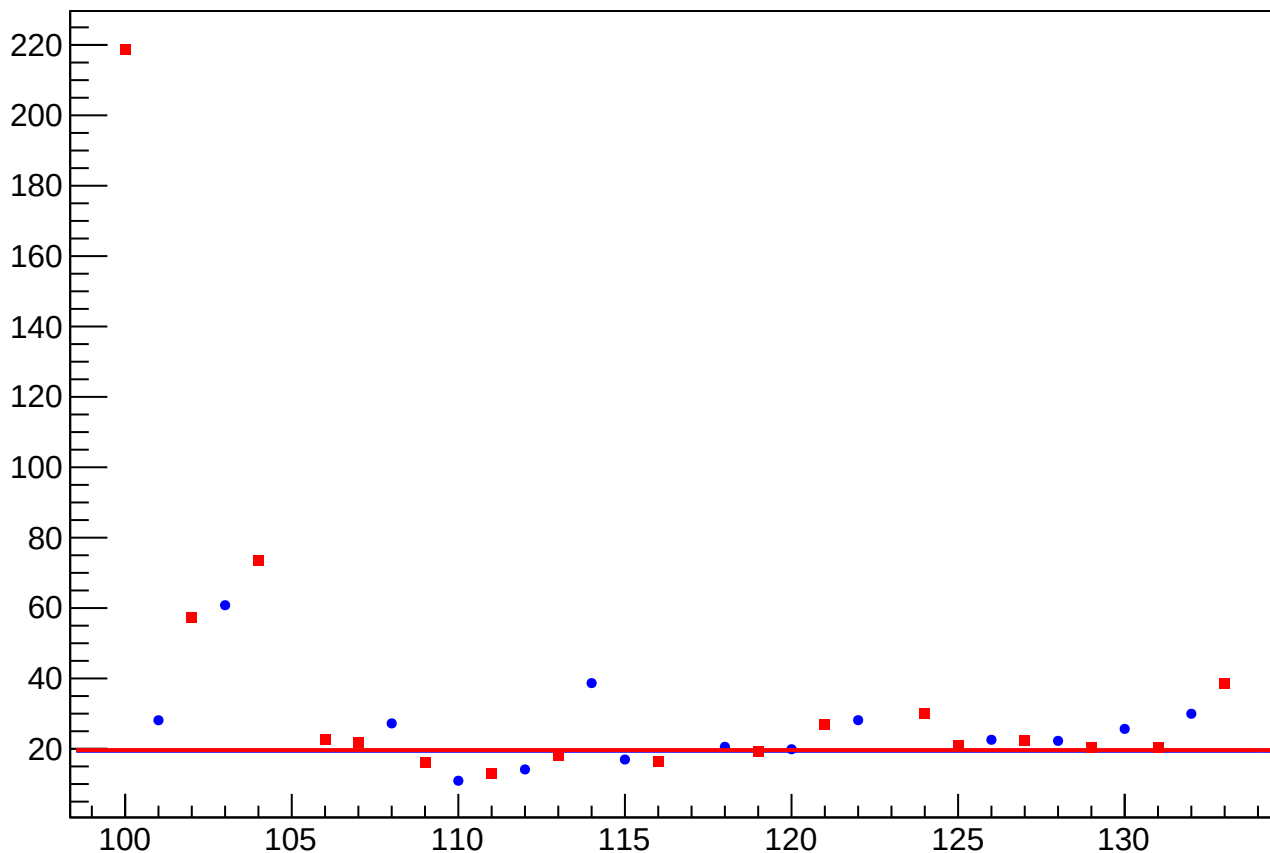
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.006  $\chi^2$ /NDF: 33.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam7\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 19.458+/-0.006  $\chi^2$ /NDF: 1584053.5/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 19.643+/-0.006  $\chi^2$ /NDF: 1671974.5/16

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

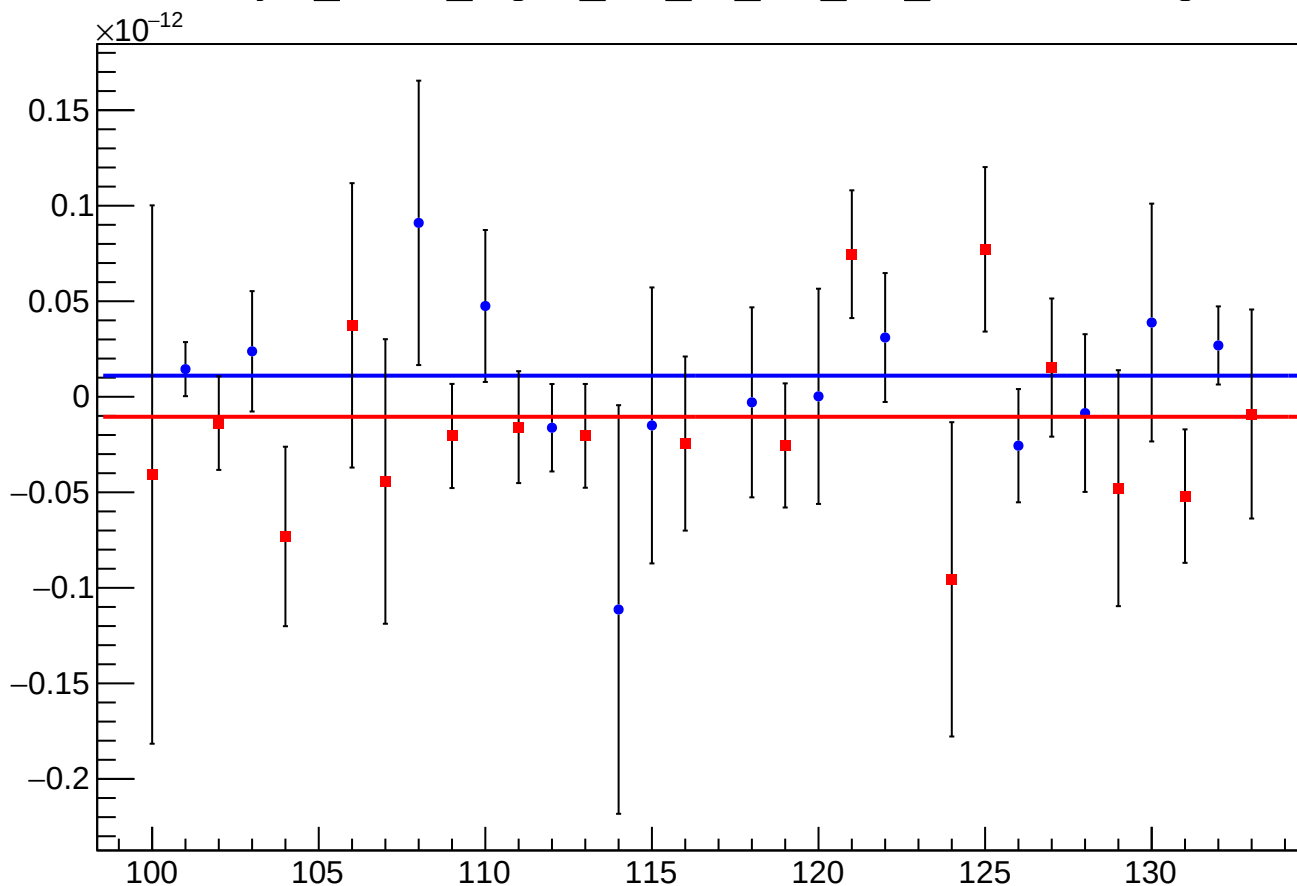
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 19.555+/-0.004  $\chi^2$ /NDF: 3256483.6/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam7\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.1/16

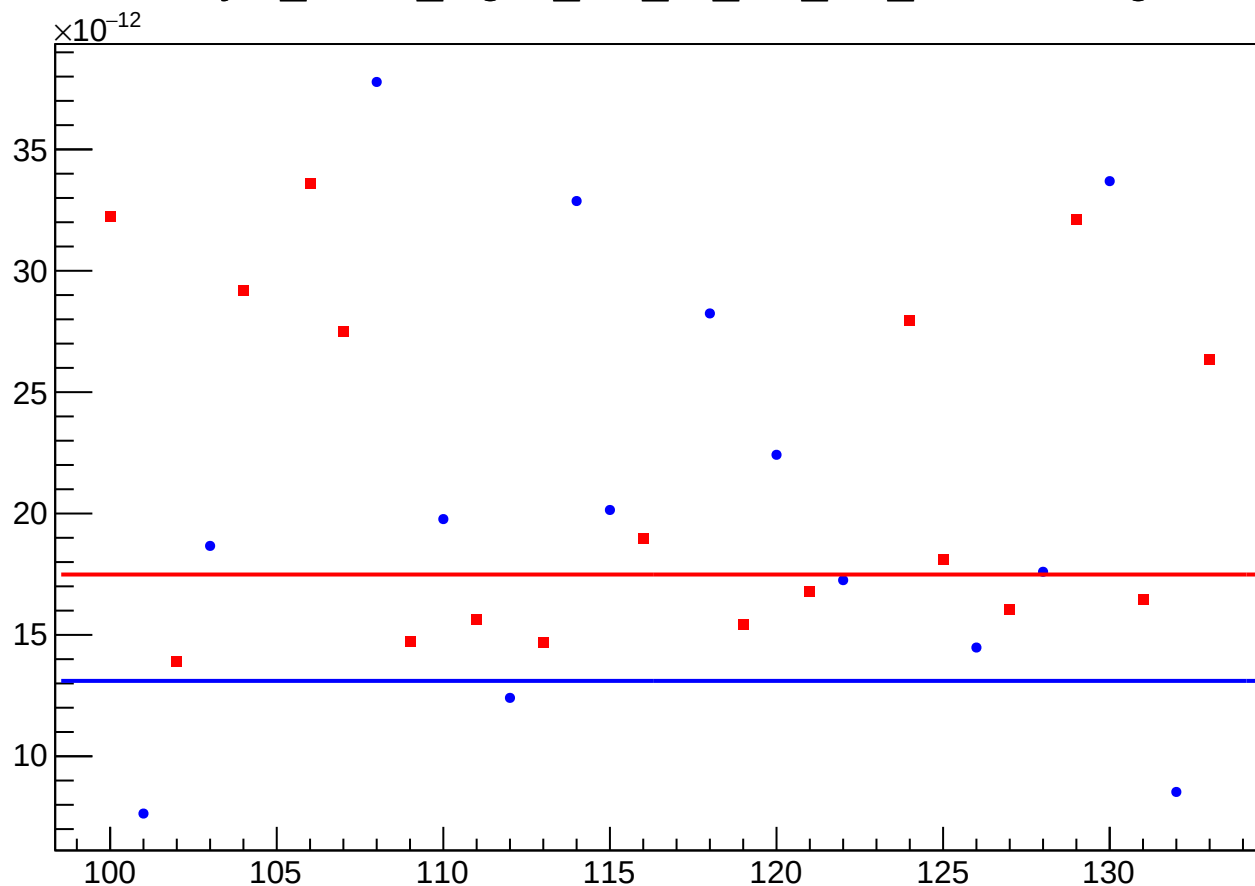
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28.2/30

- 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  $\chi^2/\text{NDF}$ : 1343400.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 582223.8/16

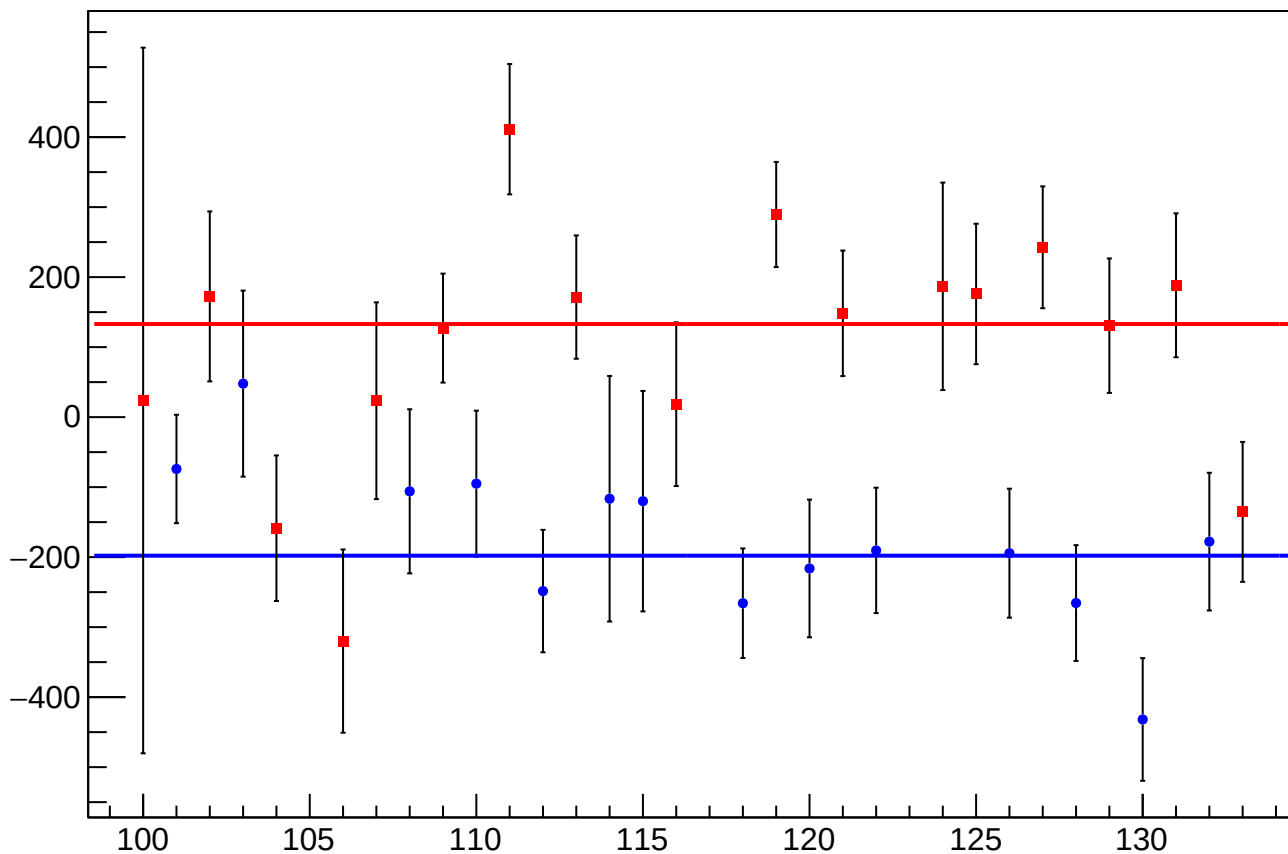
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2176547.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_mean vs Slug



Right In:  $-197.916 \pm 25.988$   $\chi^2/\text{NDF}$ : 17.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $132.975 \pm 24.712$   $\chi^2/\text{NDF}$ : 44.5/16

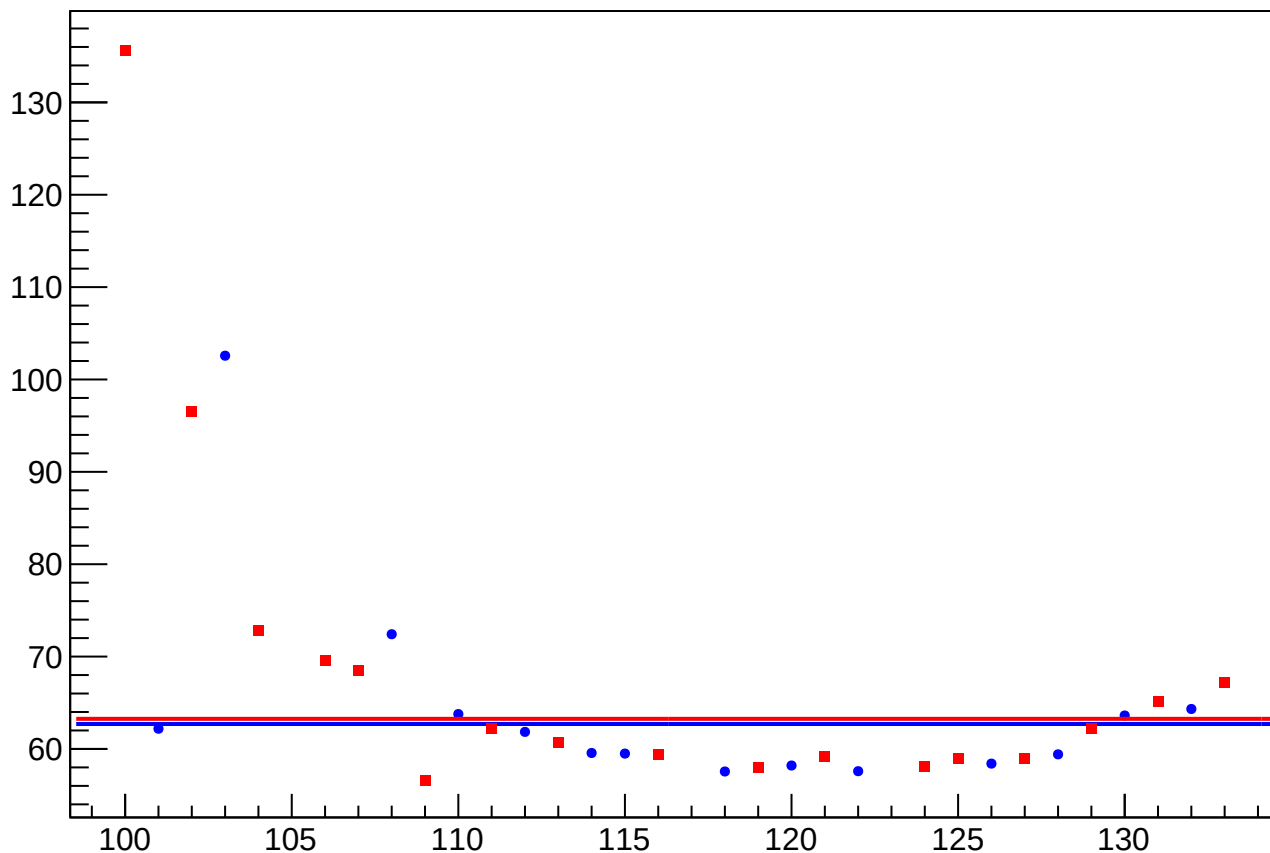
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-24.149 \pm 17.908$   $\chi^2/\text{NDF}$ : 146.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_rms vs Slug



Right In: 62.699 $\pm$ 0.018  $\chi^2$ /NDF: 223379.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 63.260 $\pm$ 0.017  $\chi^2$ /NDF: 263447.6/16

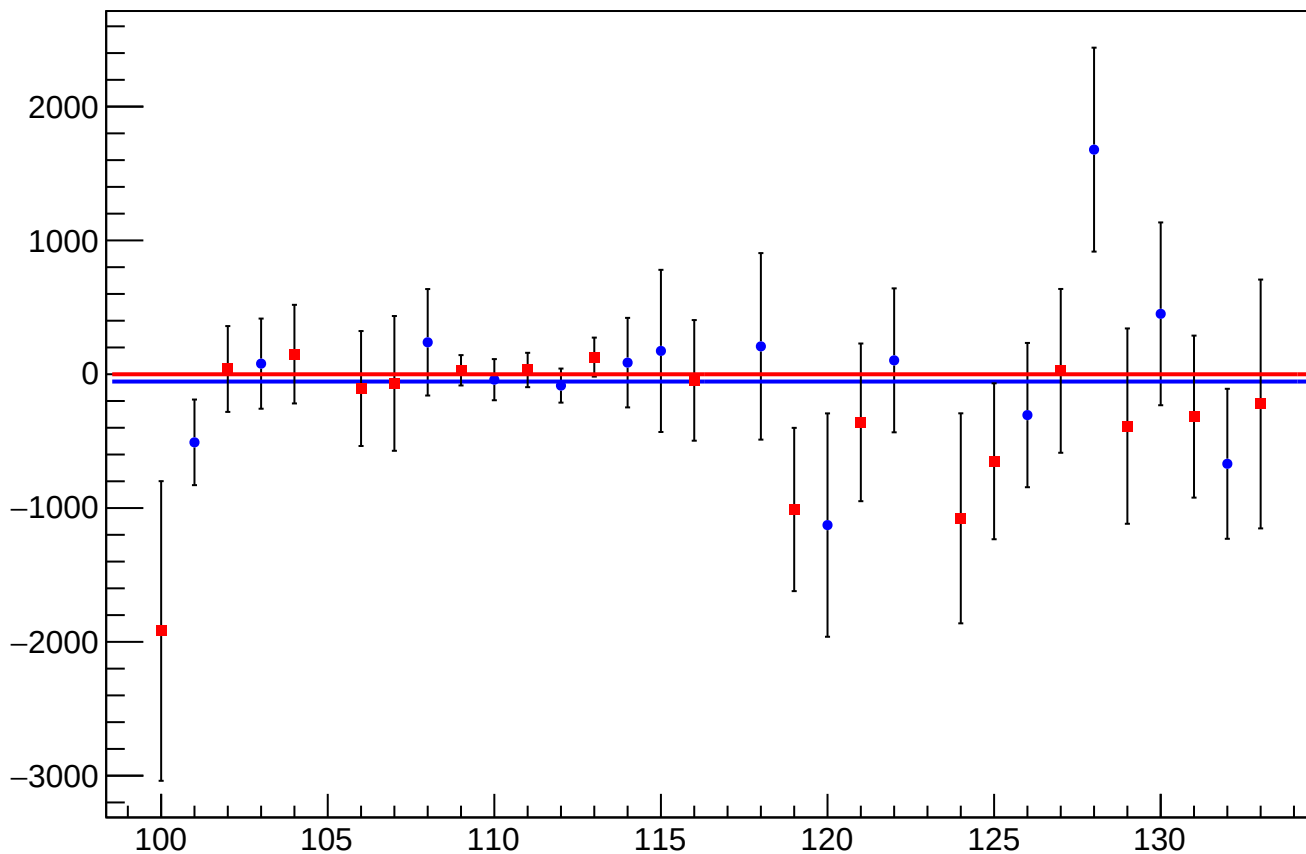
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 62.994 $\pm$ 0.013  $\chi^2$ /NDF: 487316.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_reg\_correction\_mean vs Slug



Right In: -54.650+/-79.546  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.284+/-65.047  $\chi^2/\text{NDF}$ : 11.0/16

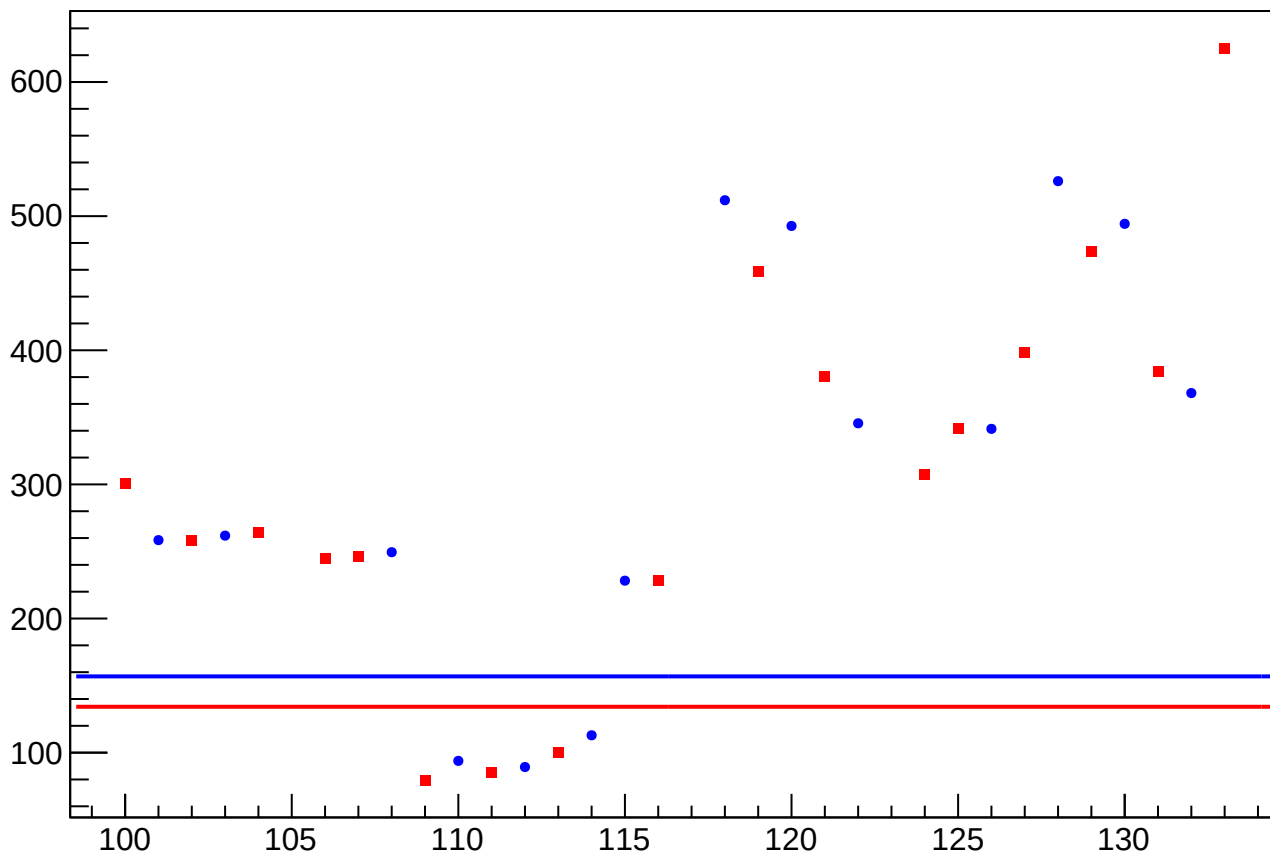
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -22.070+/-50.355  $\chi^2/\text{NDF}$ : 23.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_reg\_correction\_rms vs Slug



Right In: 156.858+/-0.056  $\chi^2/\text{NDF}$ : 4030945.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 134.214+/-0.046  $\chi^2/\text{NDF}$ : 4751252.6/16

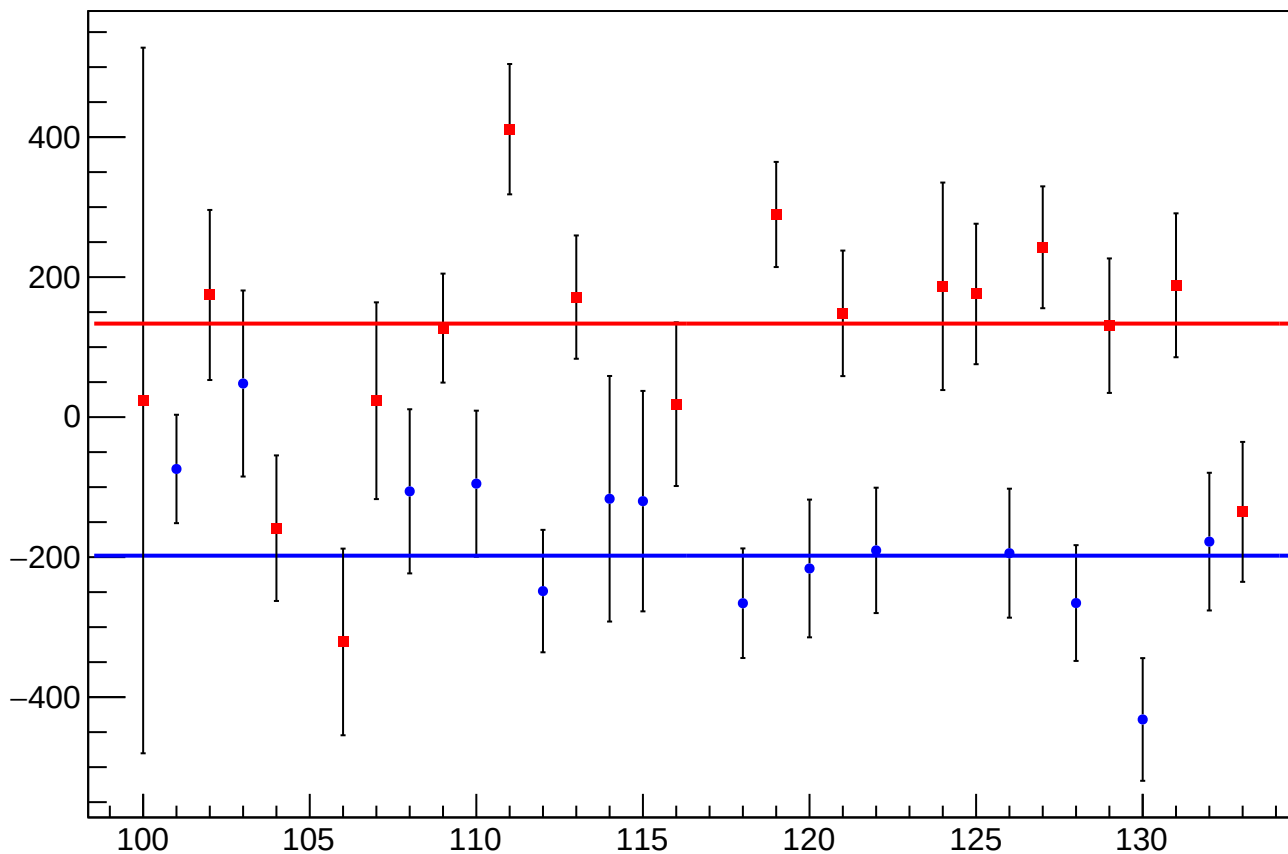
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 143.288+/-0.036  $\chi^2/\text{NDF}$ : 8879327.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam8\_mean vs Slug



Right In:  $-197.917 \pm 25.988$   $\chi^2/\text{NDF}$ : 17.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $133.598 \pm 24.728$   $\chi^2/\text{NDF}$ : 44.1/16

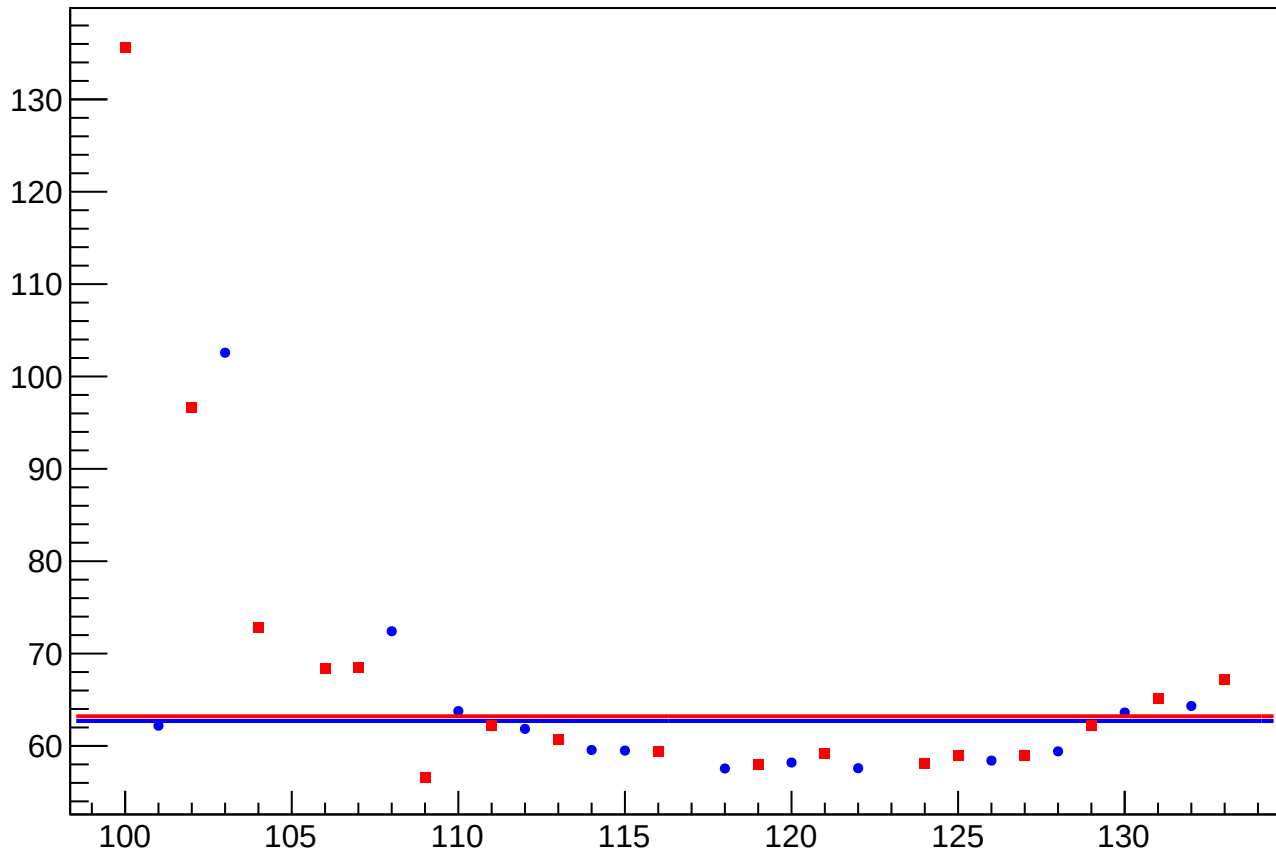
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-23.930 \pm 17.914$   $\chi^2/\text{NDF}$ : 146.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam8\_rms vs Slug



Right In: 62.699+/-0.018  $\chi^2/\text{NDF}$ : 223381.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 63.212+/-0.017  $\chi^2/\text{NDF}$ : 261955.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

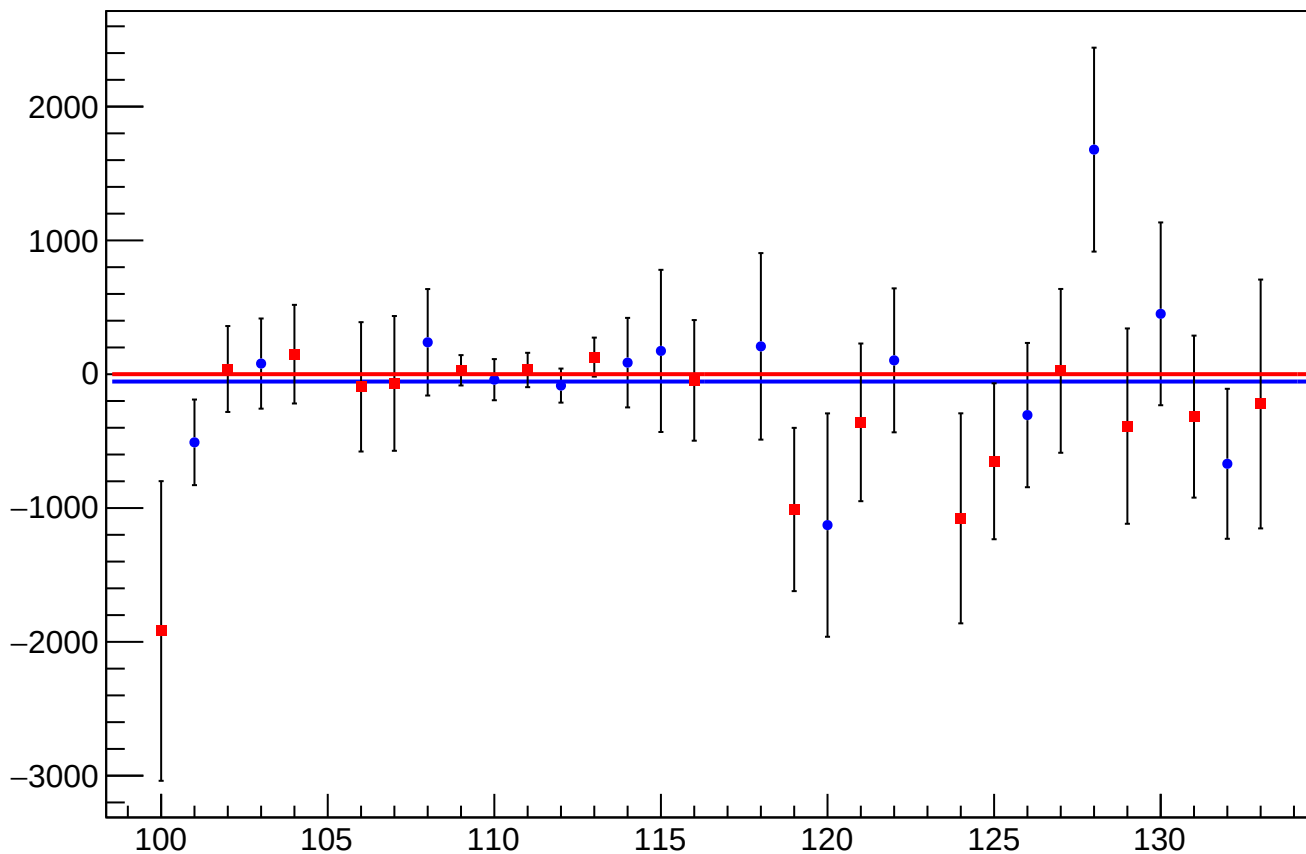
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 62.968+/-0.013  $\chi^2/\text{NDF}$ : 485747.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam8\_cor\_correction\_mean vs Slug



Right In: -54.630+/-79.546  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.439+/-65.207  $\chi^2/\text{NDF}$ : 10.9/16

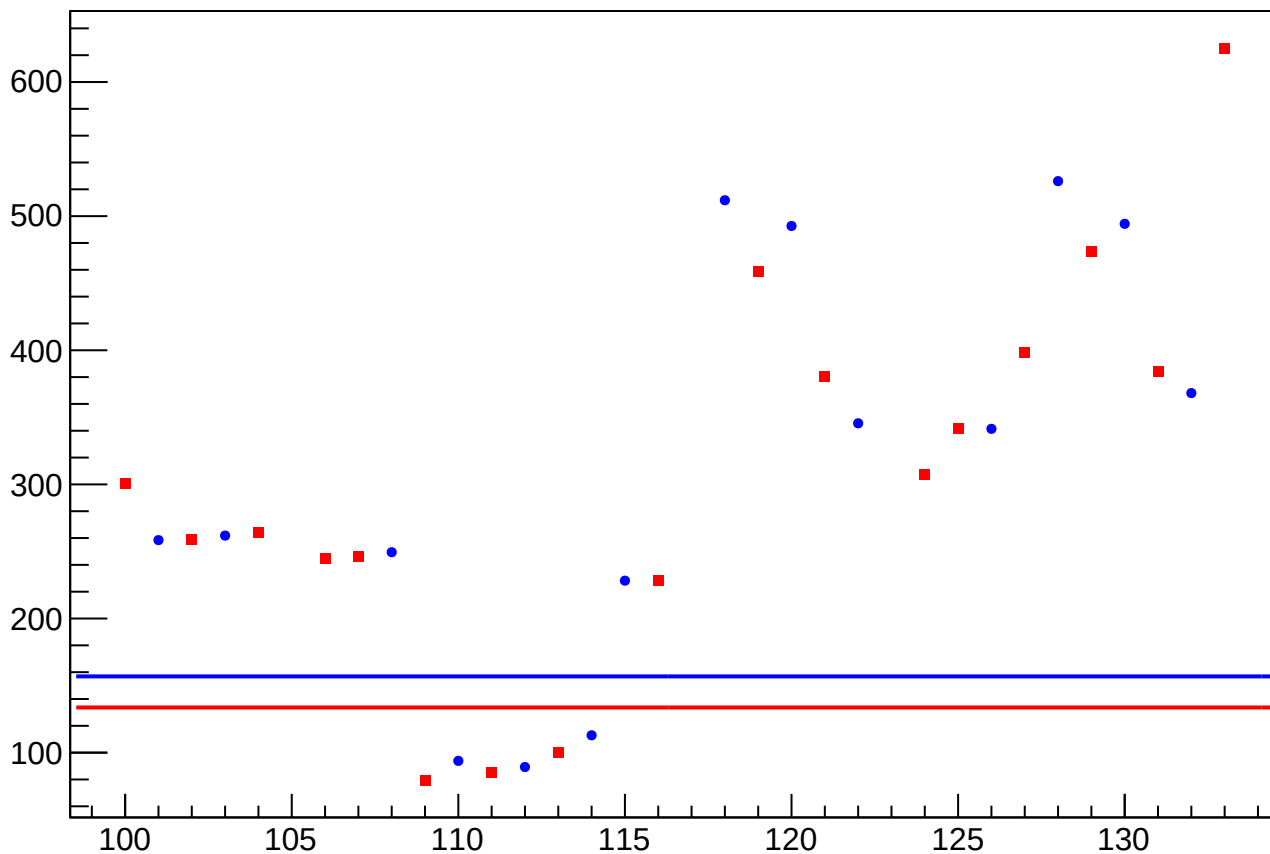
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.694+/-50.429  $\chi^2/\text{NDF}$ : 23.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_cor\_correction\_rms vs Slug



Right In: 156.858+/-0.056  $\chi^2/\text{NDF}$ : 4031000.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 133.681+/-0.046  $\chi^2/\text{NDF}$ : 4724467.1/16

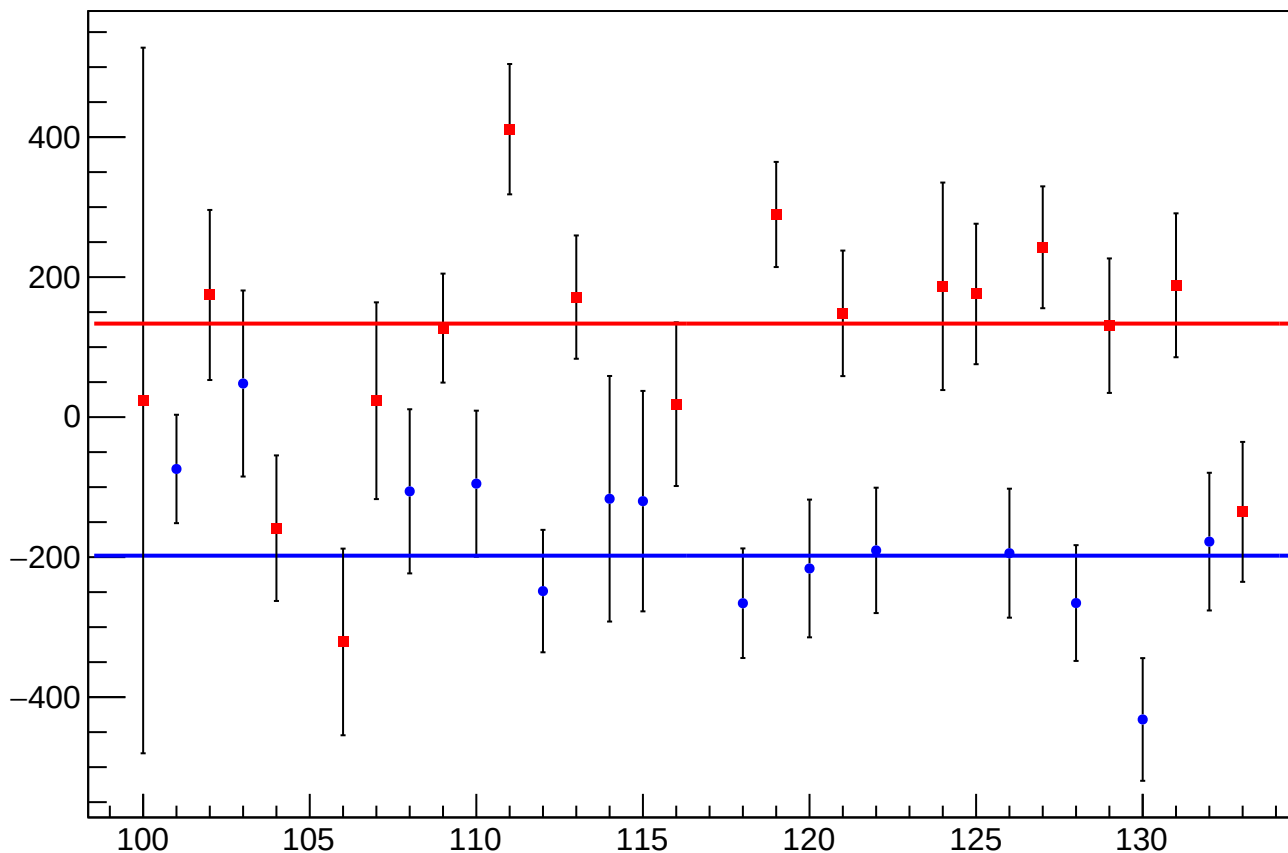
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 142.996+/-0.036  $\chi^2/\text{NDF}$ : 8857019.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam8\_mean vs Slug



Right In:  $-197.917 \pm 25.988$   $\chi^2/\text{NDF}$ : 17.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $133.598 \pm 24.728$   $\chi^2/\text{NDF}$ : 44.1/16

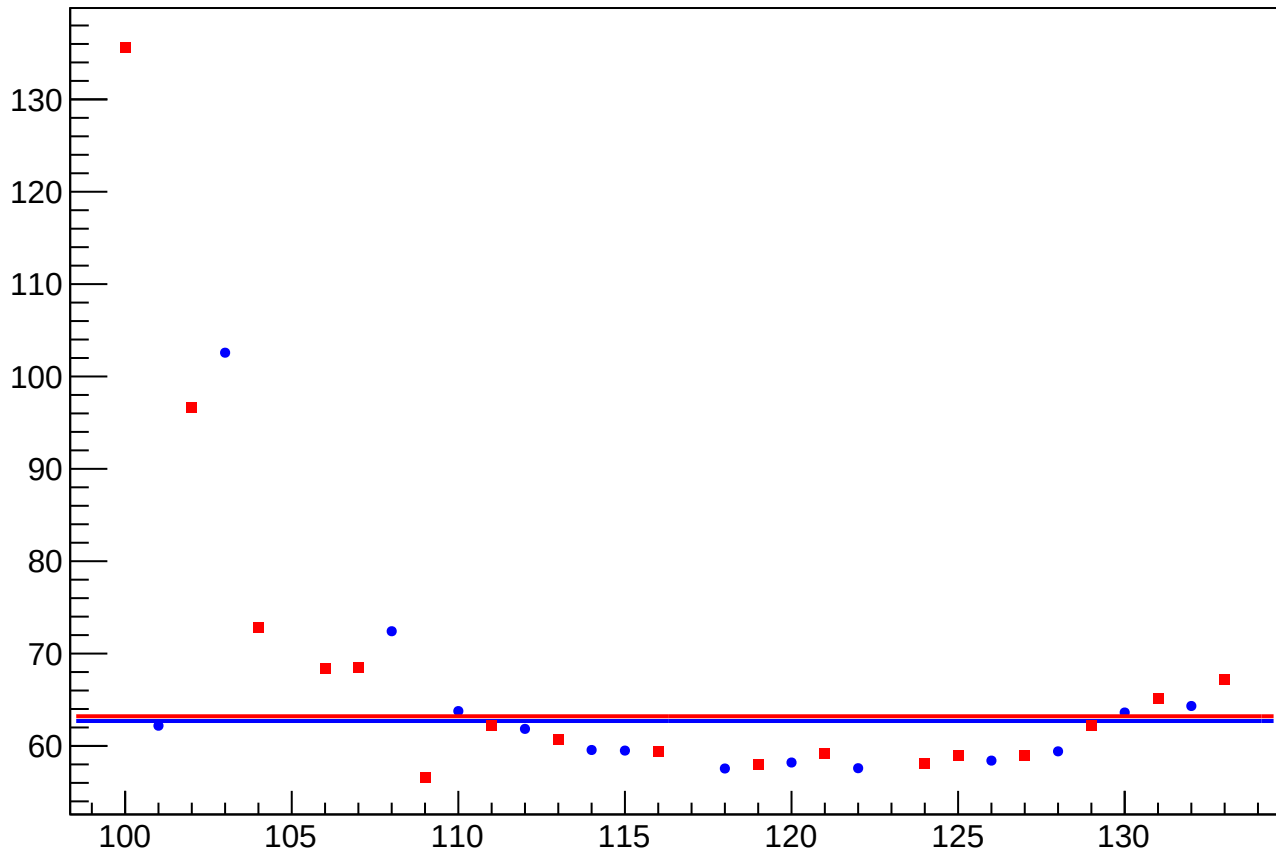
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-23.930 \pm 17.914$   $\chi^2/\text{NDF}$ : 146.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam8\_rms vs Slug



Right In: 62.699+/-0.018  $\chi^2/\text{NDF}$ : 223381.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 63.212+/-0.017  $\chi^2/\text{NDF}$ : 261955.8/16

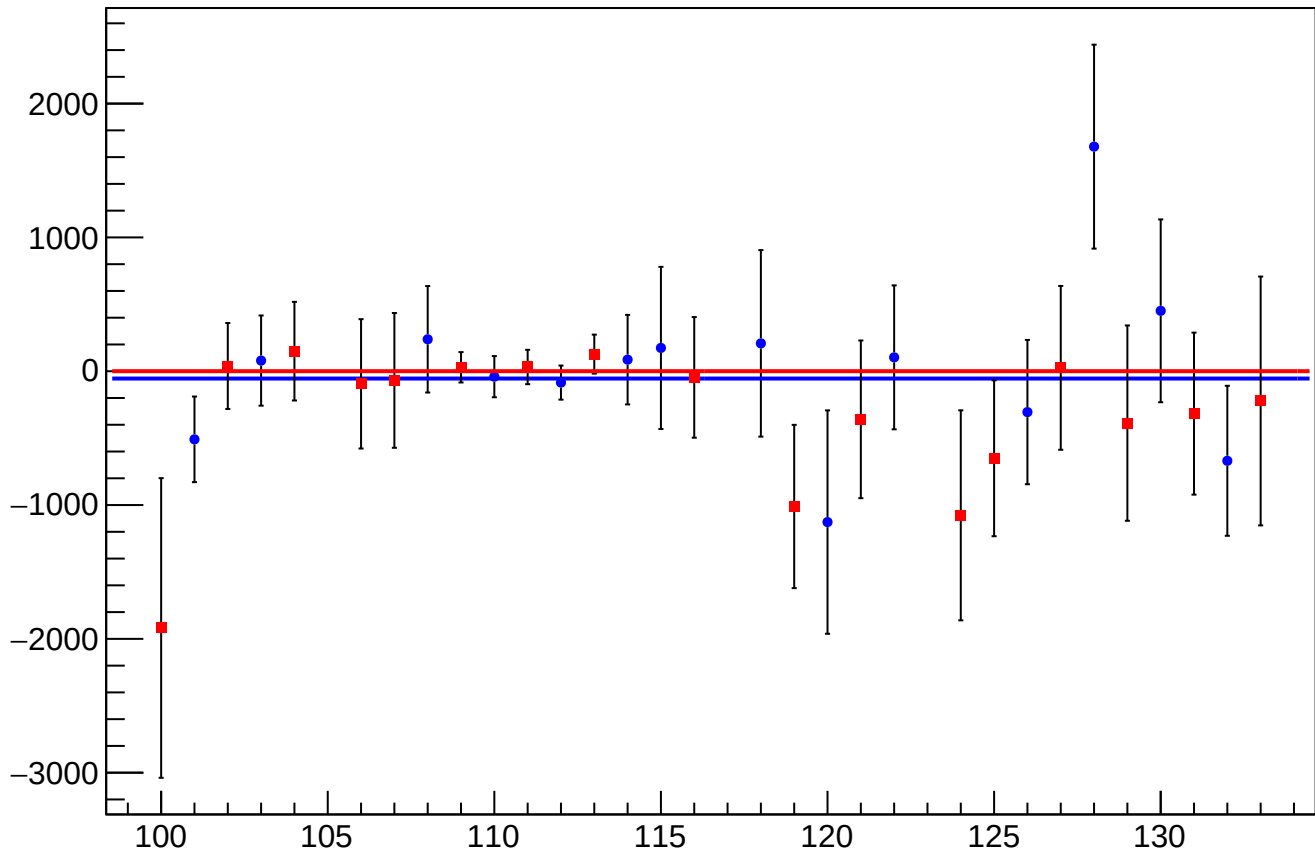
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 62.968+/-0.013  $\chi^2/\text{NDF}$ : 485747.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_eigen\_cor\_correction\_mean vs Slug



Right In: -54.630+/-79.546  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.439+/-65.207  $\chi^2/\text{NDF}$ : 10.9/16

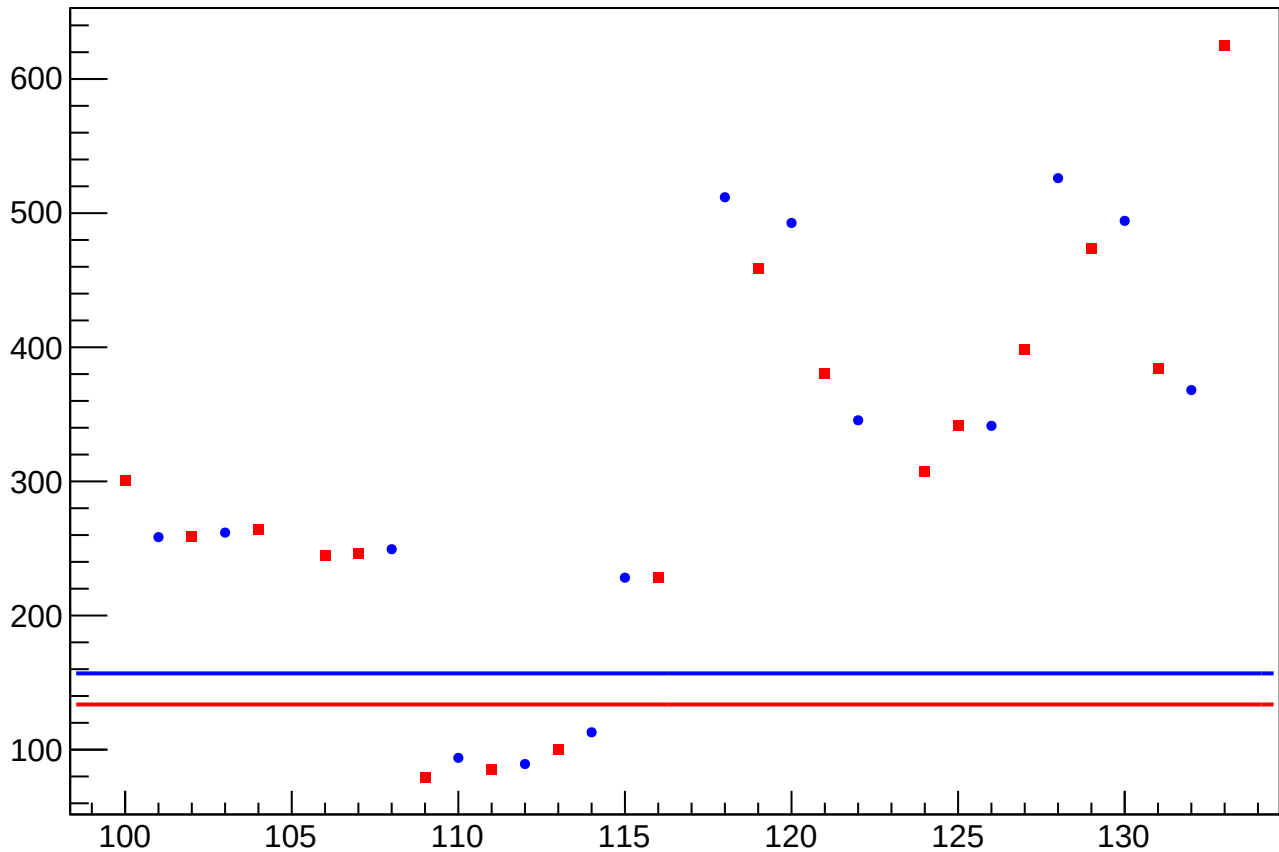
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.694+/-50.429  $\chi^2/\text{NDF}$ : 23.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_eigen\_cor\_correction\_rms vs Slug



Right In: 156.858+/-0.056  $\chi^2/\text{NDF}$ : 4031000.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 133.681+/-0.046  $\chi^2/\text{NDF}$ : 4724467.1/16

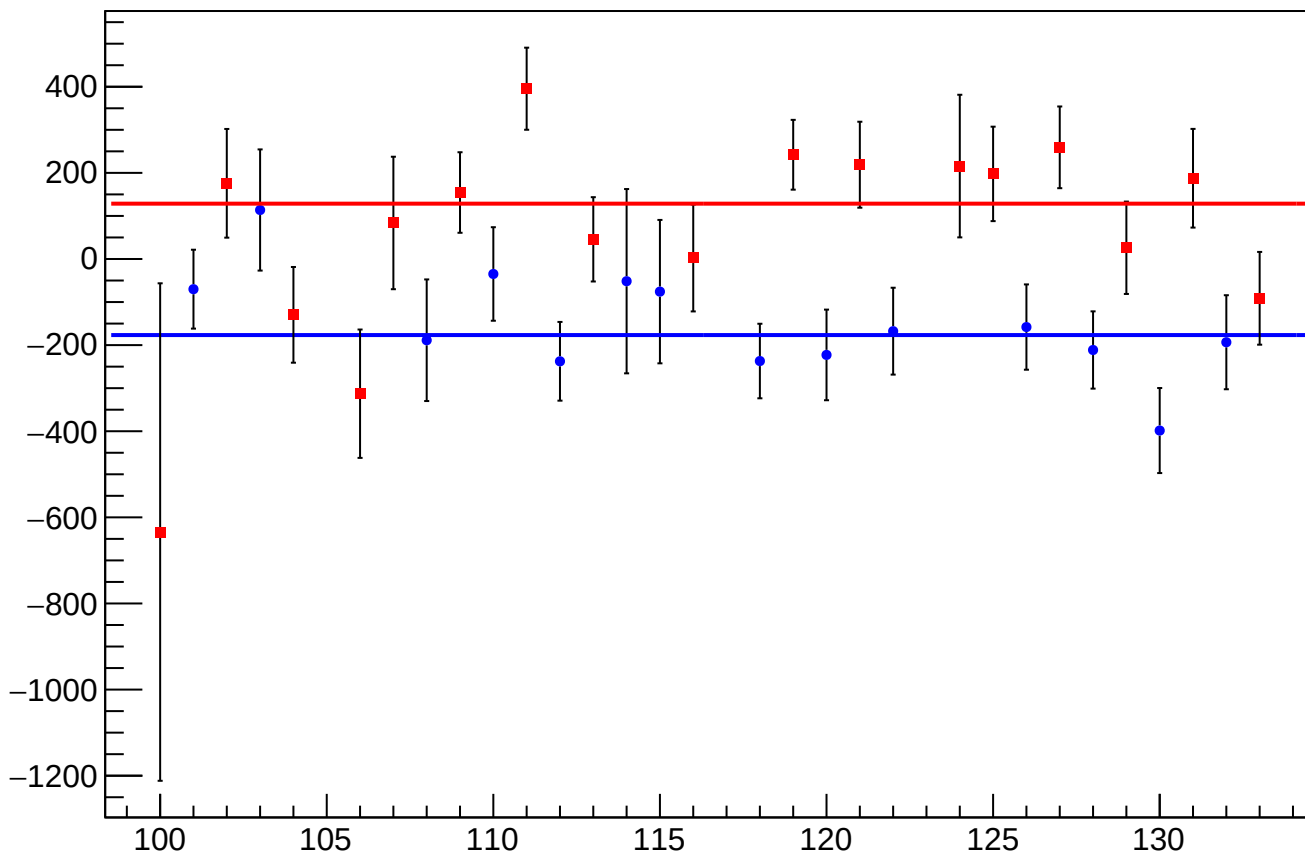
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 142.996+/-0.036  $\chi^2/\text{NDF}$ : 8857019.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam8\_mean vs Slug



Right In:  $-176.665 \pm 28.668$   $\chi^2/\text{NDF}$ : 14.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $128.507 \pm 27.115$   $\chi^2/\text{NDF}$ : 36.5/16

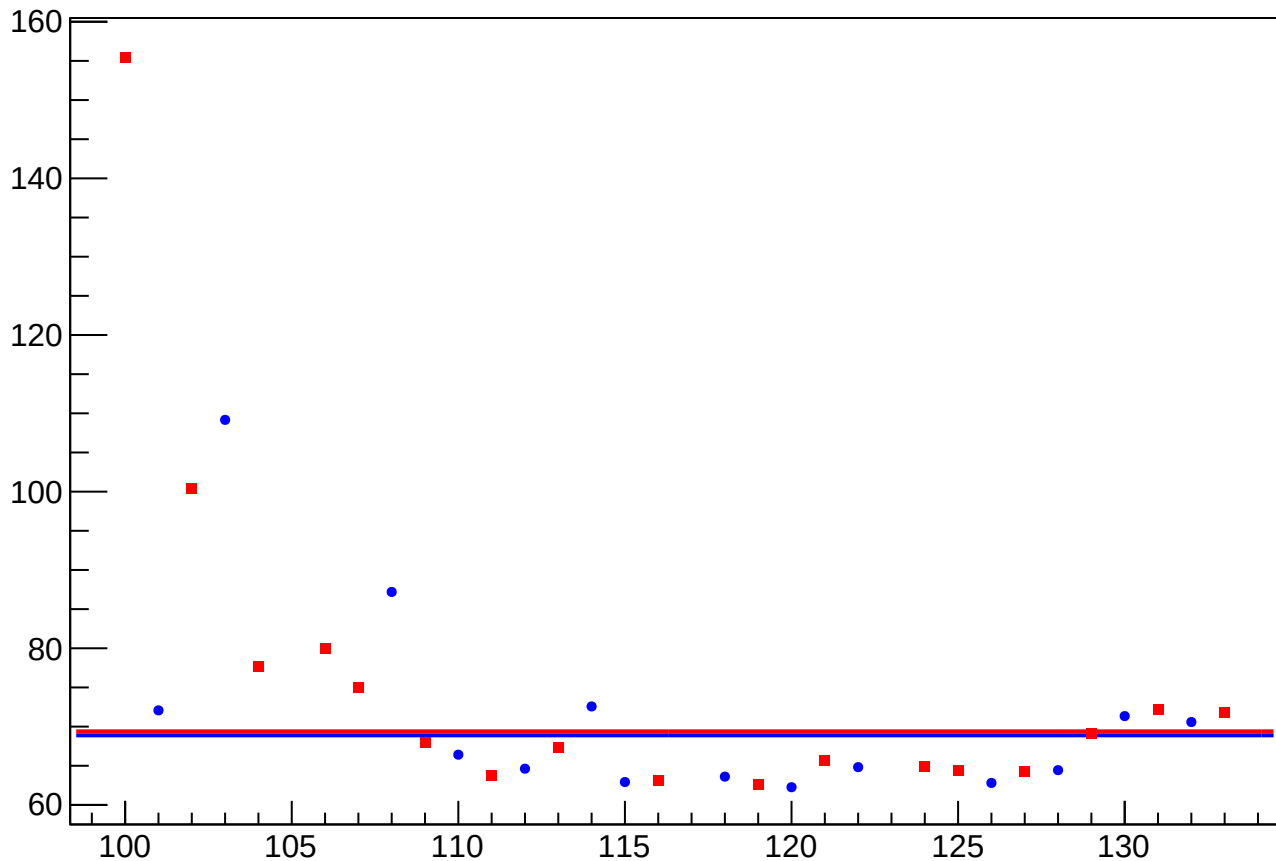
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-15.588 \pm 19.699$   $\chi^2/\text{NDF}$ : 110.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam8\_rms vs Slug



Right In: 68.886 $\pm$ 0.020  $\chi^2$ /NDF: 241212.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 69.394 $\pm$ 0.019  $\chi^2$ /NDF: 233406.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

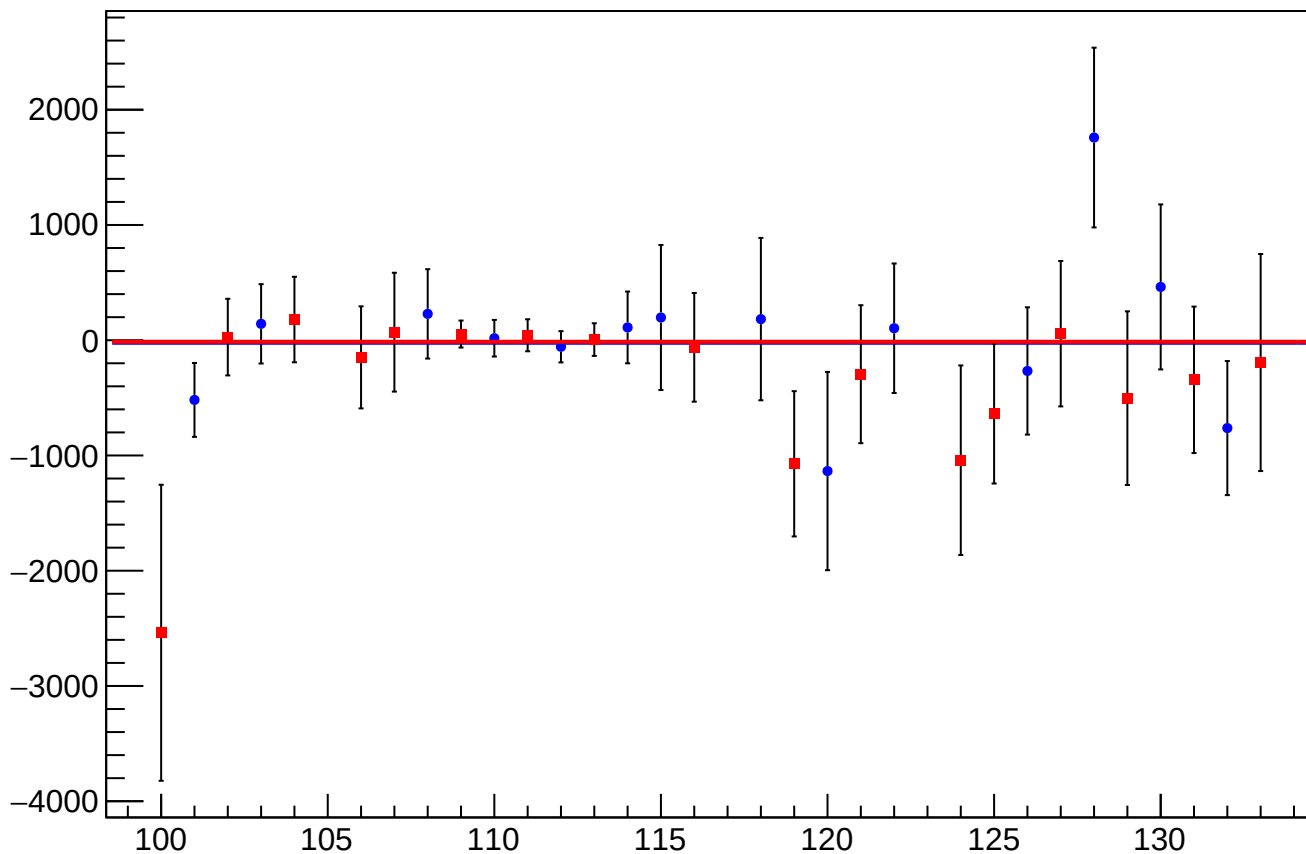
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 69.154 $\pm$ 0.014  $\chi^2$ /NDF: 474951.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam8\_dit\_correction\_mean vs Slug



Right In:  $-21.972 \pm 82.181$   $\chi^2/\text{NDF}$ : 12.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-13.305 \pm 67.085$   $\chi^2/\text{NDF}$ : 11.2/16

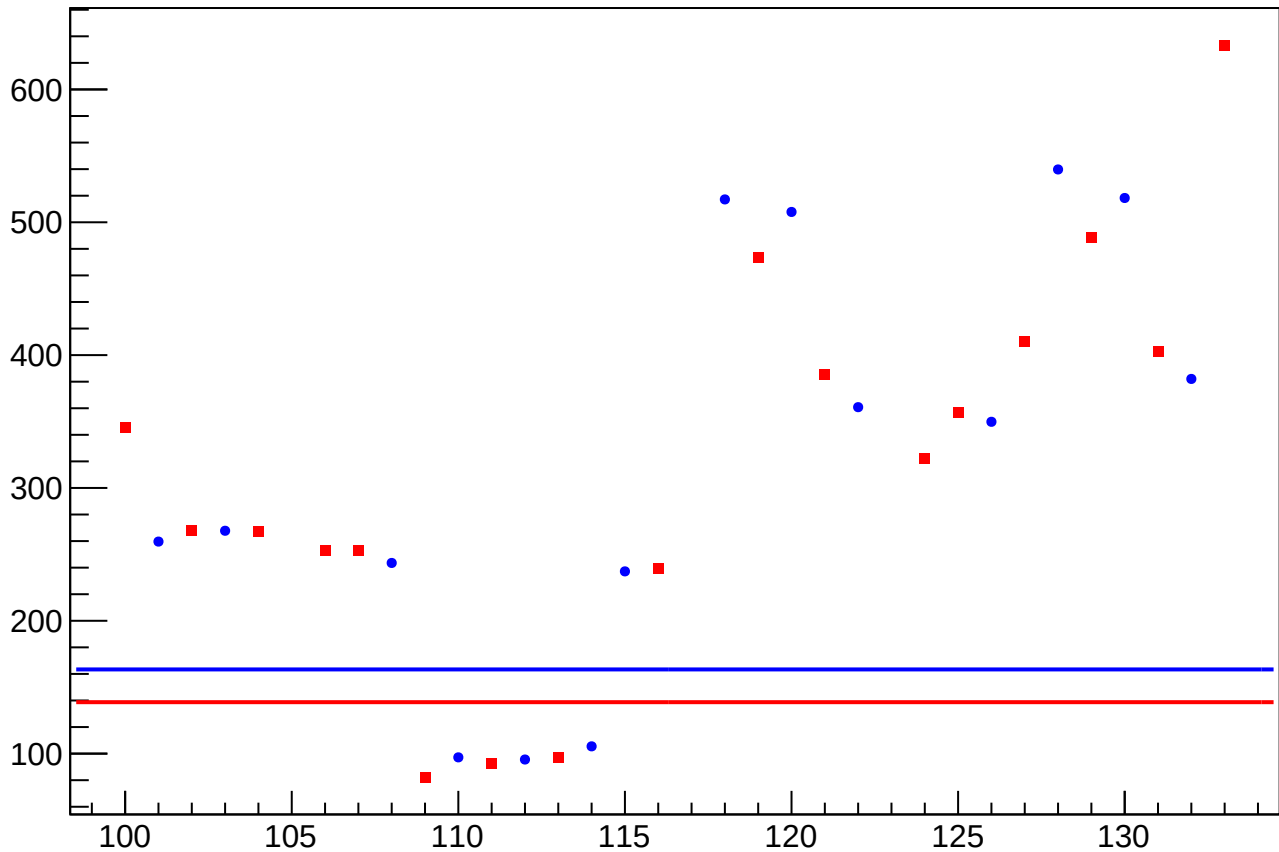
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-16.771 \pm 51.968$   $\chi^2/\text{NDF}$ : 24.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_dit\_correction\_rms vs Slug



Right In: 163.382+/-0.058  $\chi^2/\text{NDF}$ : 3934388.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 138.728+/-0.047  $\chi^2/\text{NDF}$ : 4738226.3/16

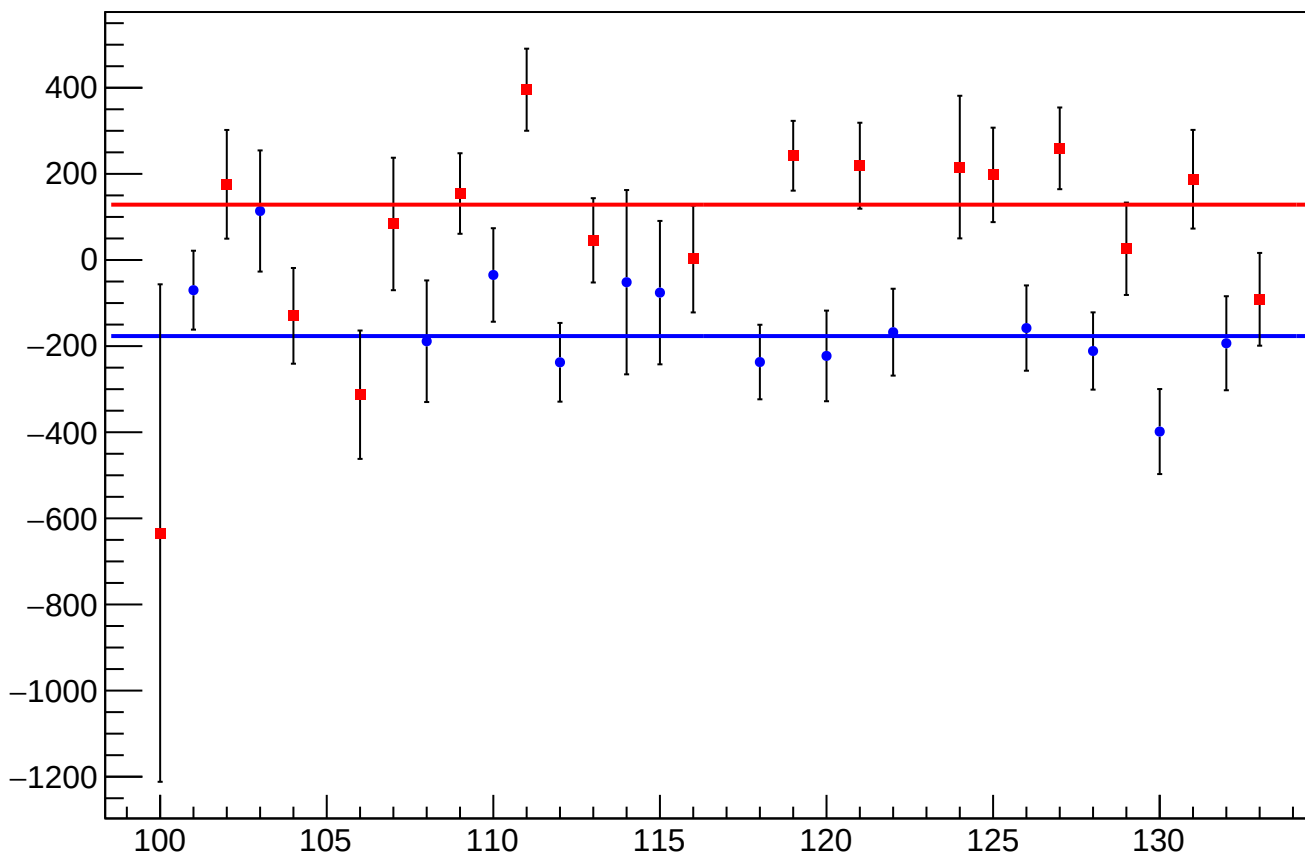
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 148.587+/-0.037  $\chi^2/\text{NDF}$ : 8780625.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam8\_mean vs Slug



Right In:  $-176.666 \pm 28.668$   $\chi^2/\text{NDF}$ : 14.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $128.509 \pm 27.115$   $\chi^2/\text{NDF}$ : 36.5/16

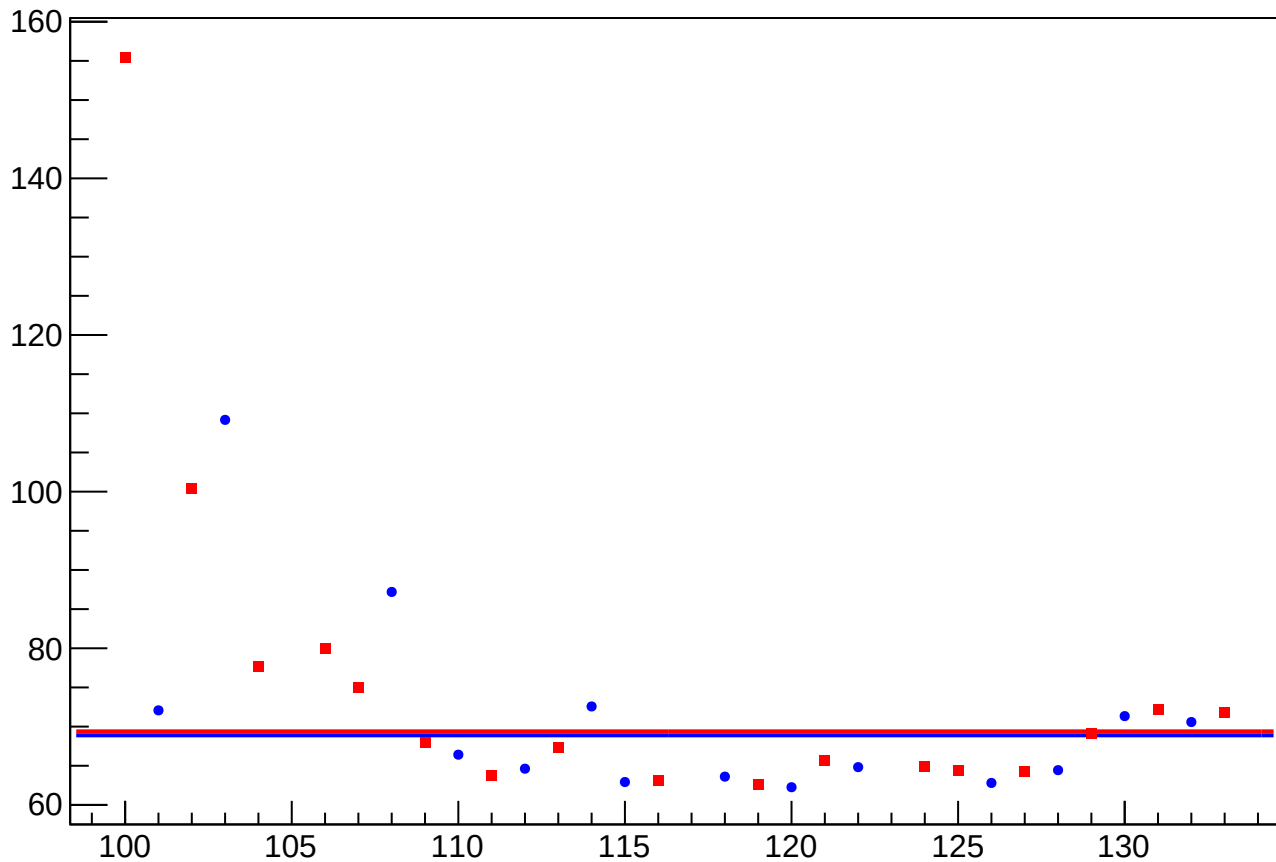
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-15.588 \pm 19.699$   $\chi^2/\text{NDF}$ : 110.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam8\_rms vs Slug



Right In: 68.886+/-0.020  $\chi^2/\text{NDF}$ : 241213.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.394+/-0.019  $\chi^2/\text{NDF}$ : 233409.4/16

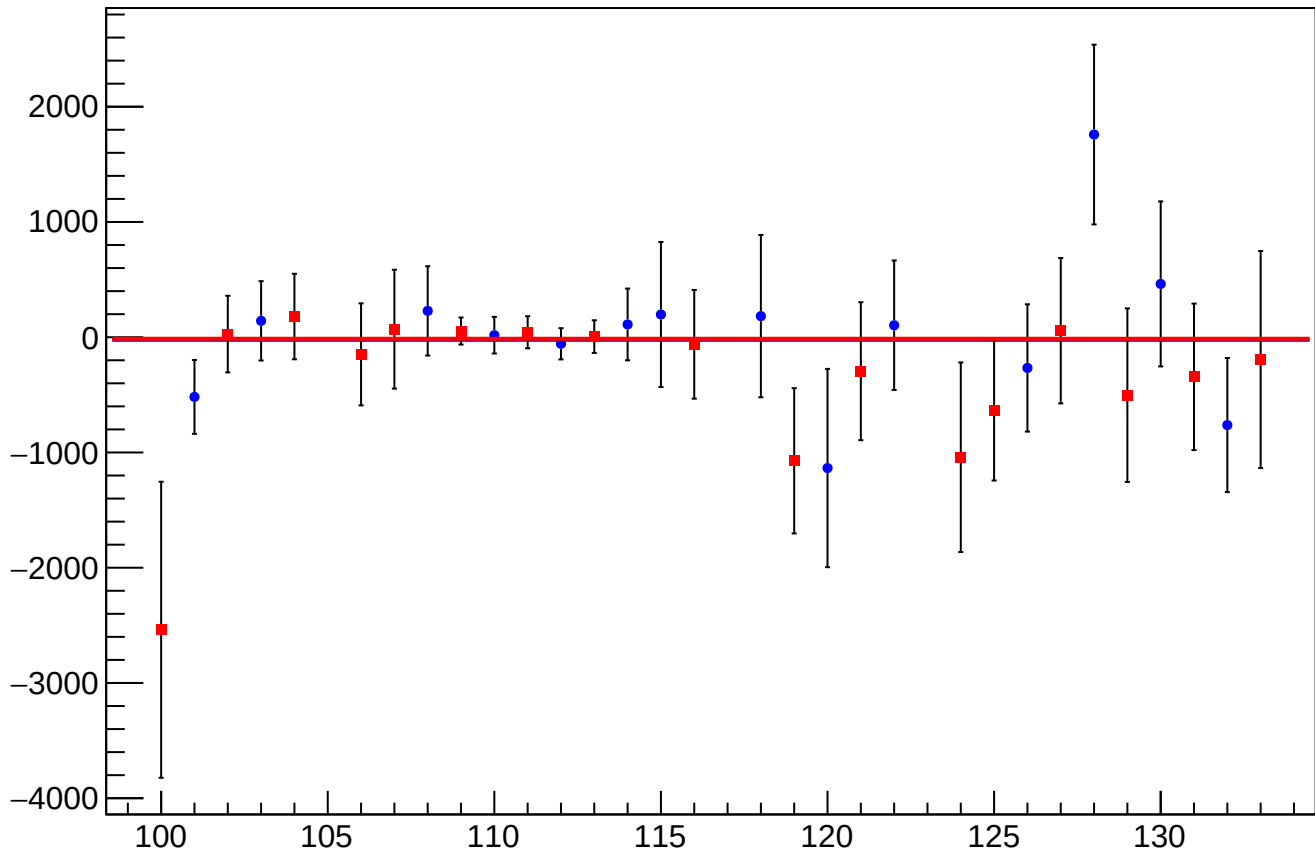
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 69.154+/-0.014  $\chi^2/\text{NDF}$ : 474954.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_eigen\_dit\_correction\_mean vs Slug



Right In: -21.971 $\pm$ 82.180  $\chi^2$ /NDF: 12.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -13.304 $\pm$ 67.085  $\chi^2$ /NDF: 11.2/16

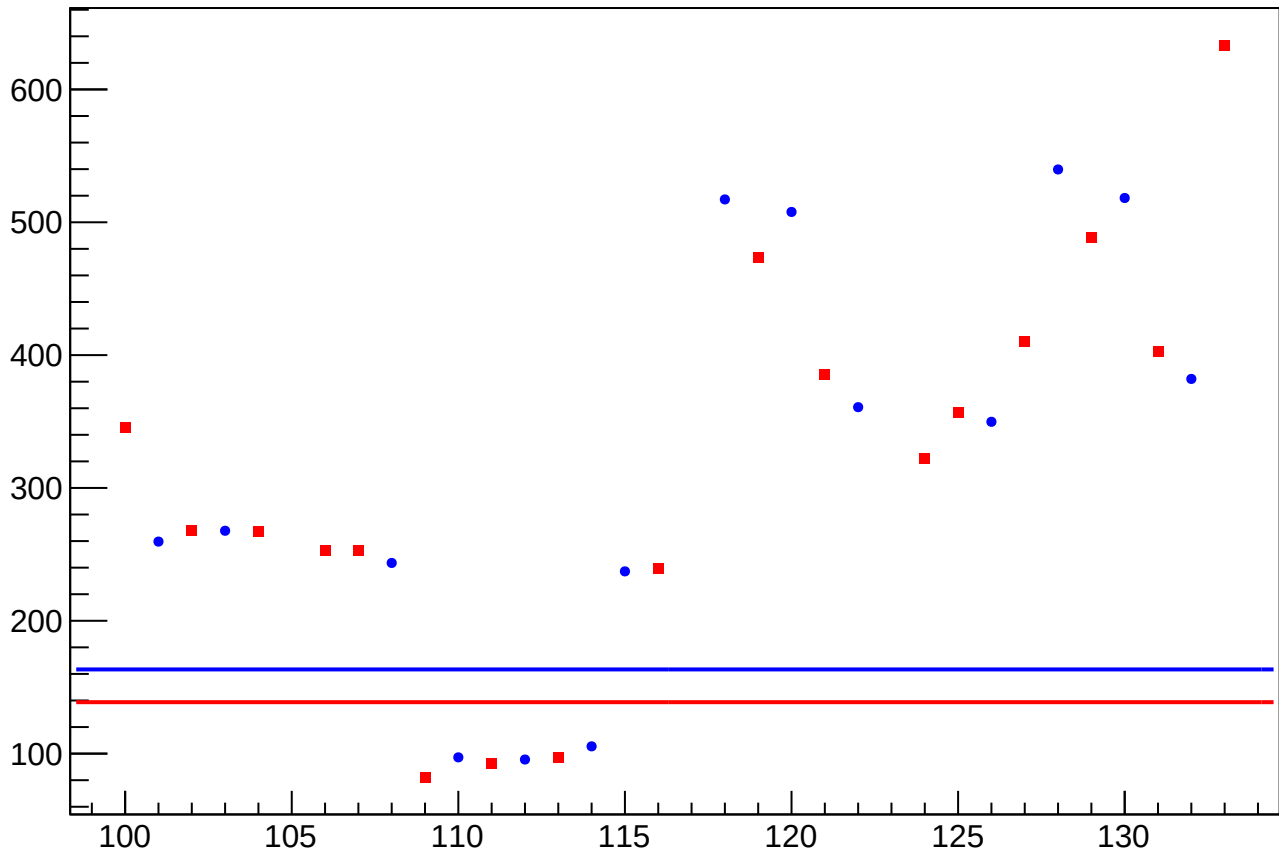
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -16.770 $\pm$ 51.968  $\chi^2$ /NDF: 24.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_eigen\_dit\_correction\_rms vs Slug



Right In: 163.380+/-0.058  $\chi^2/\text{NDF}$ : 3934404.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 138.728+/-0.047  $\chi^2/\text{NDF}$ : 4738207.3/16

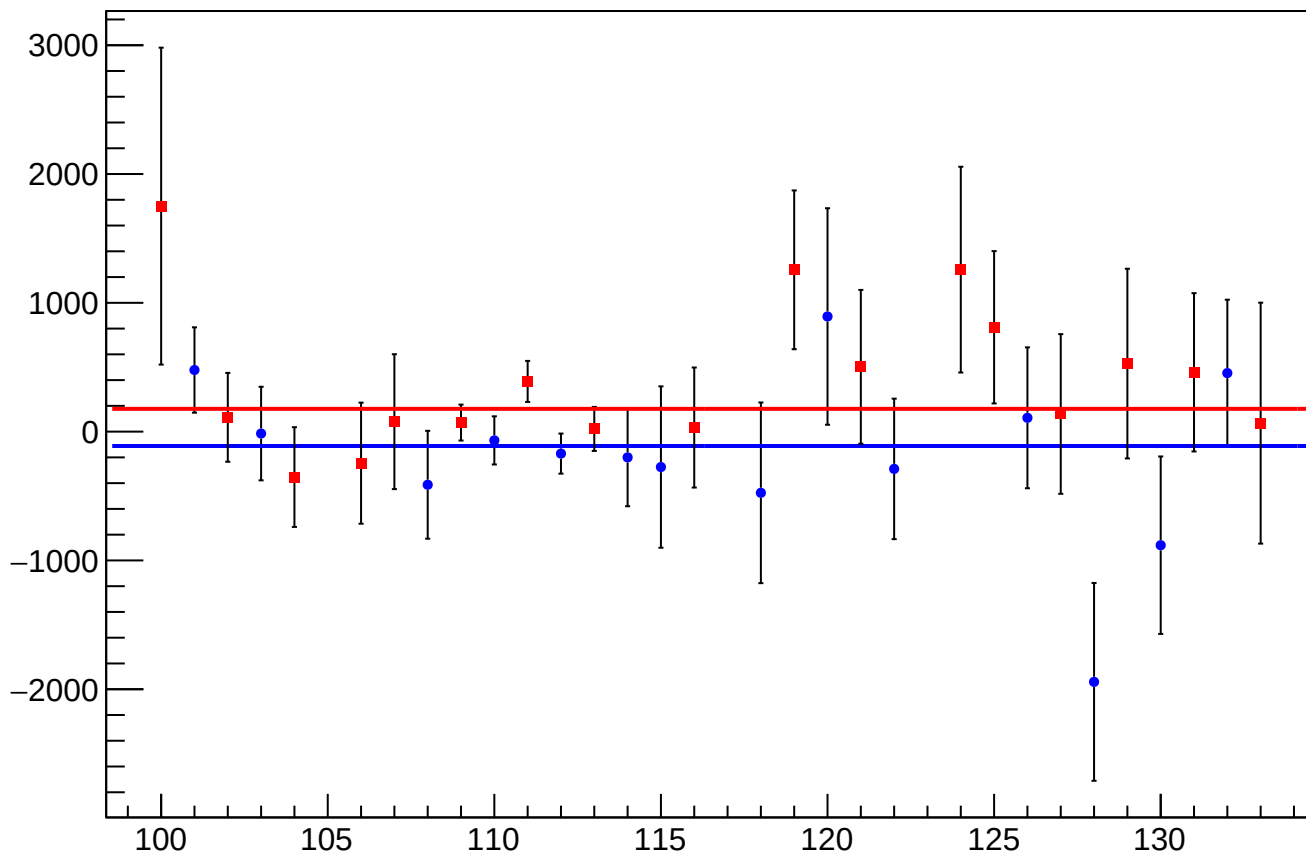
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 148.586+/-0.037  $\chi^2/\text{NDF}$ : 8780614.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_mean vs Slug



Right In: -111.614+/-91.732  $\chi^2/\text{NDF}$ : 14.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 176.948+/-76.317  $\chi^2/\text{NDF}$ : 14.5/16

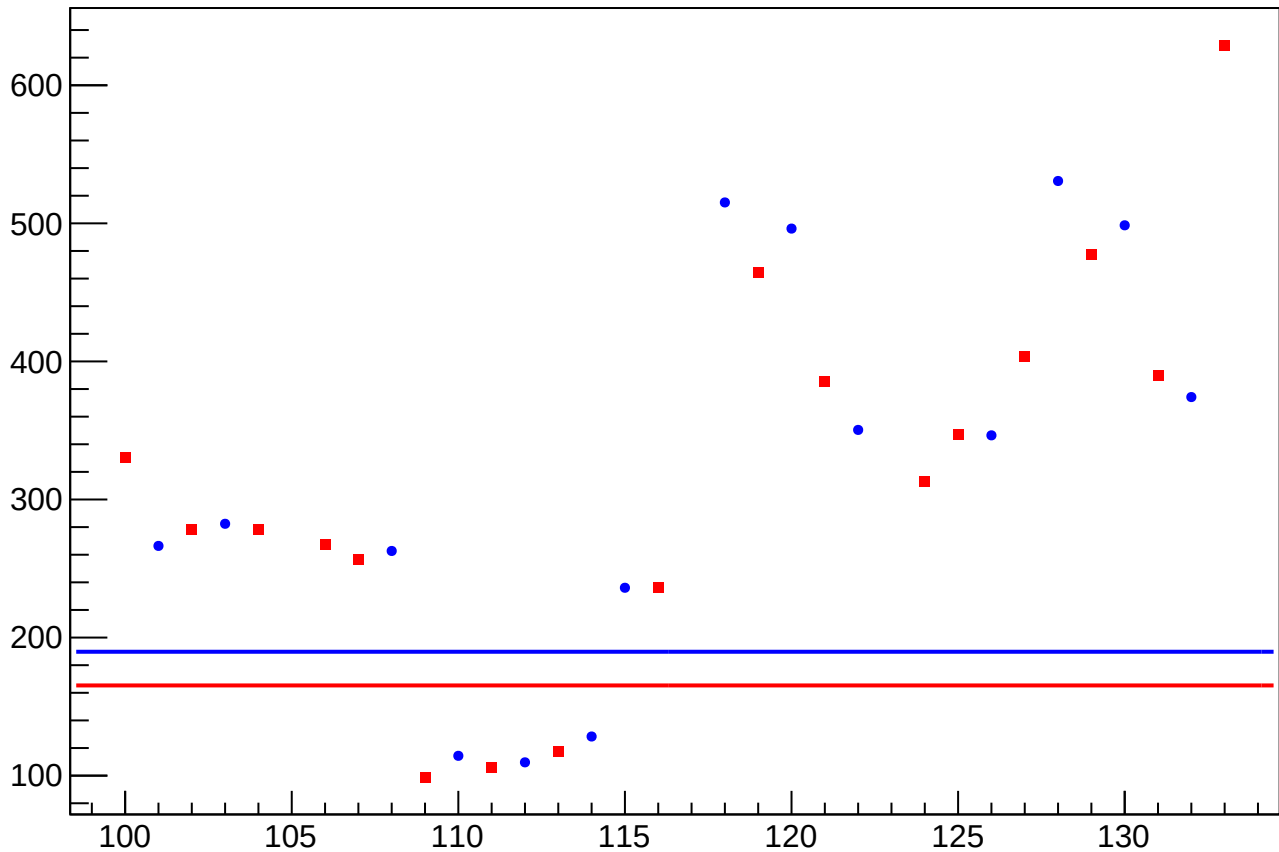
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 58.916+/-58.668  $\chi^2/\text{NDF}$ : 34.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_rms vs Slug



Right In: 189.731+/-0.065  $\chi^2/\text{NDF}$ : 3256282.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 165.335+/-0.054  $\chi^2/\text{NDF}$ : 3922574.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

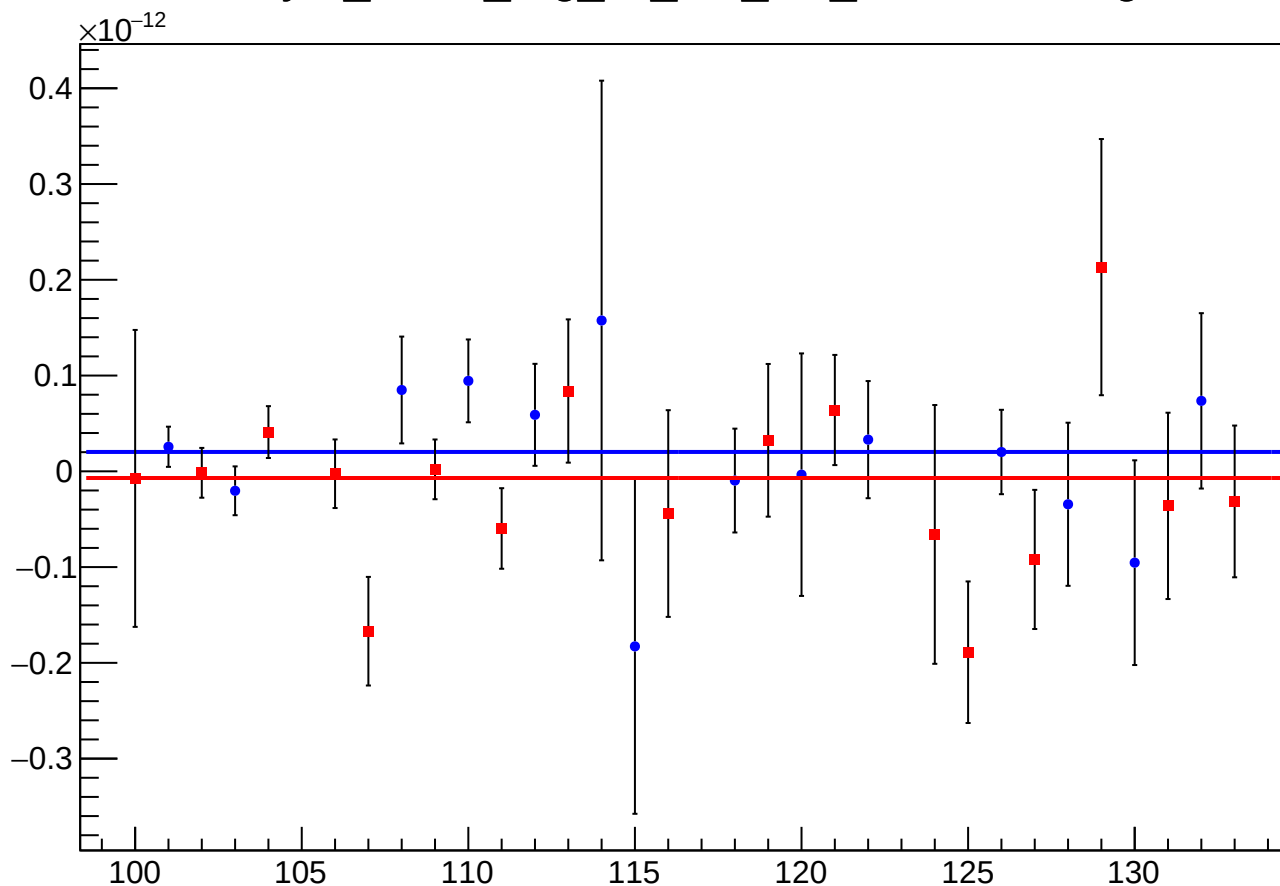
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 175.314+/-0.041  $\chi^2/\text{NDF}$ : 7262454.2/30

- 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  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 26.7/16

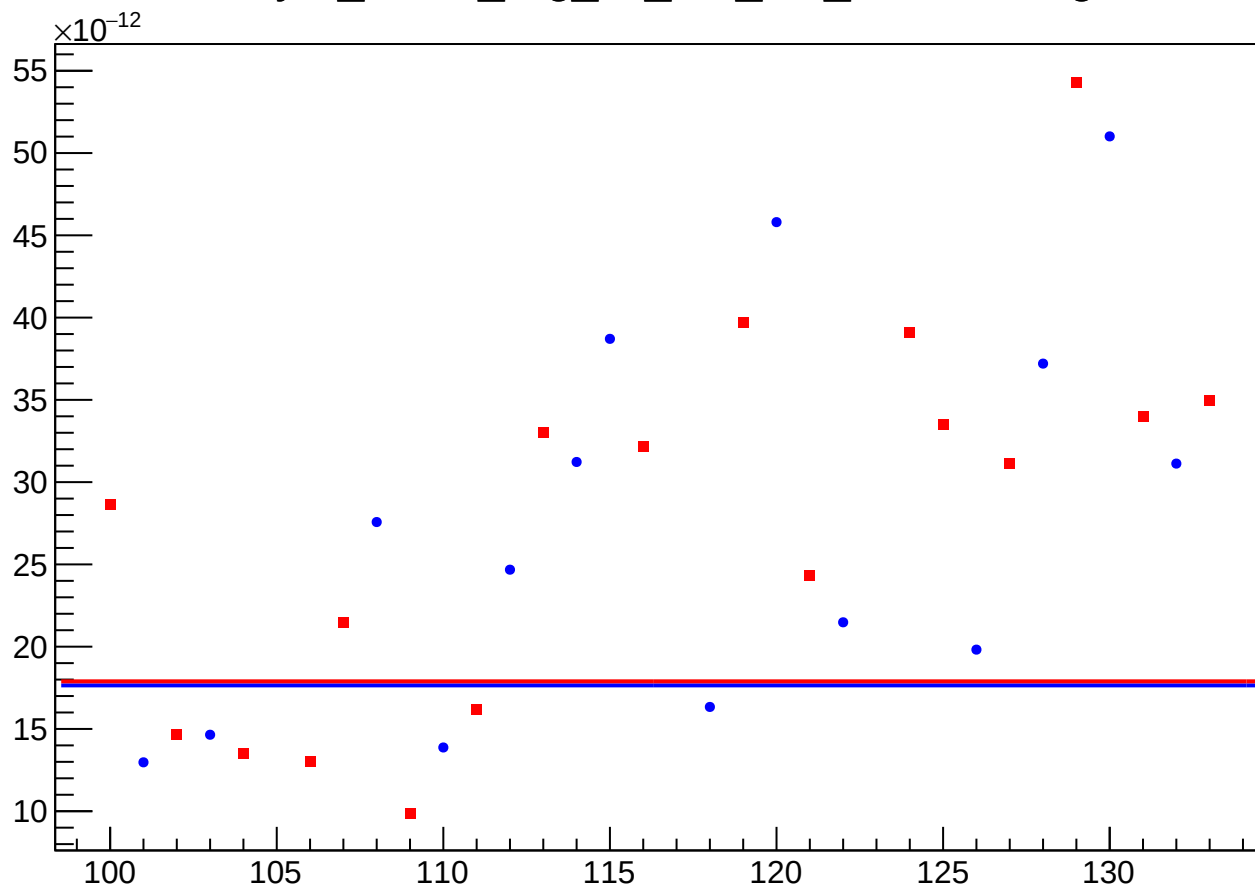
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 40.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 731894.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1067664.3/16

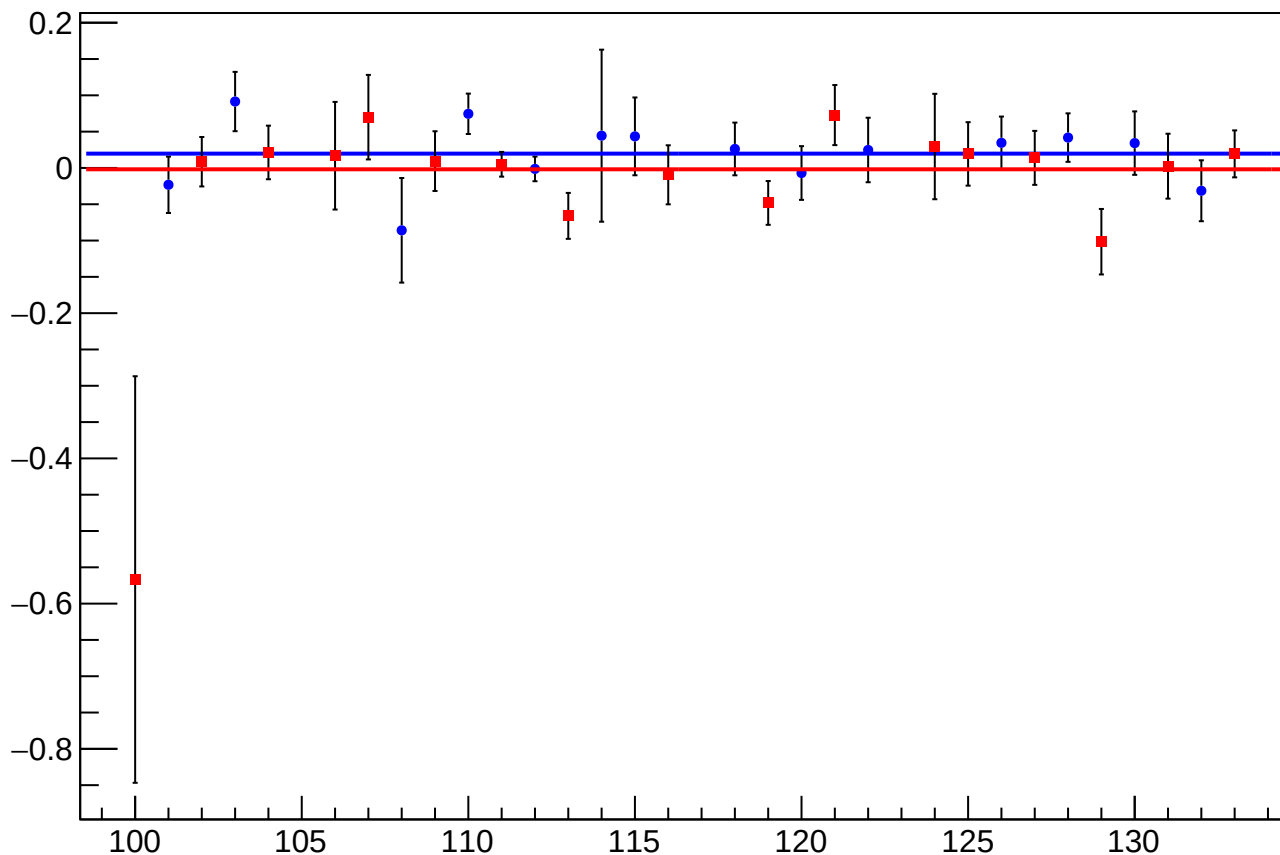
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1799969.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.020 $\pm$ 0.009  $\chi^2$ /NDF: 14.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.002 $\pm$ 0.009  $\chi^2$ /NDF: 22.1/16

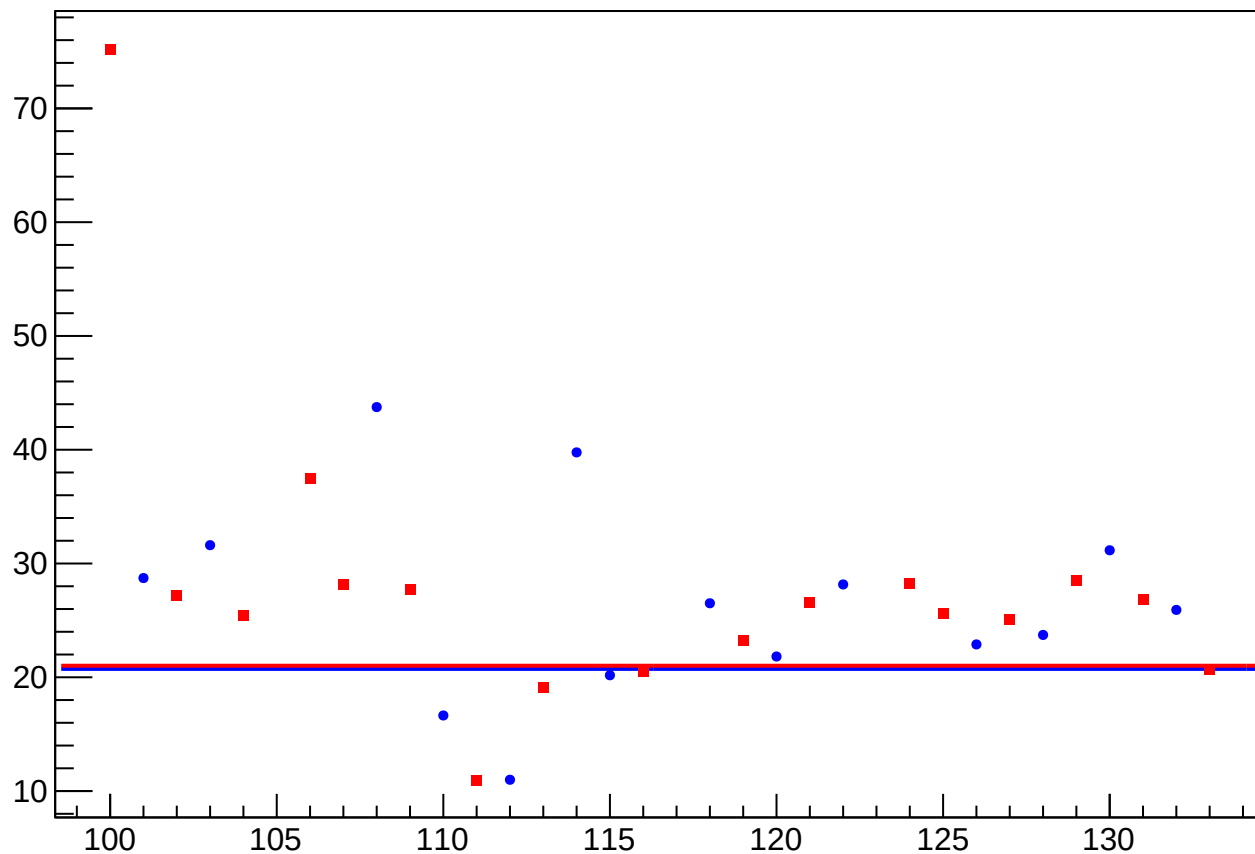
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.006  $\chi^2$ /NDF: 39.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 20.738+/-0.007  $\chi^2/\text{NDF}$ : 1459282.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.015+/-0.006  $\chi^2/\text{NDF}$ : 1263344.4/16

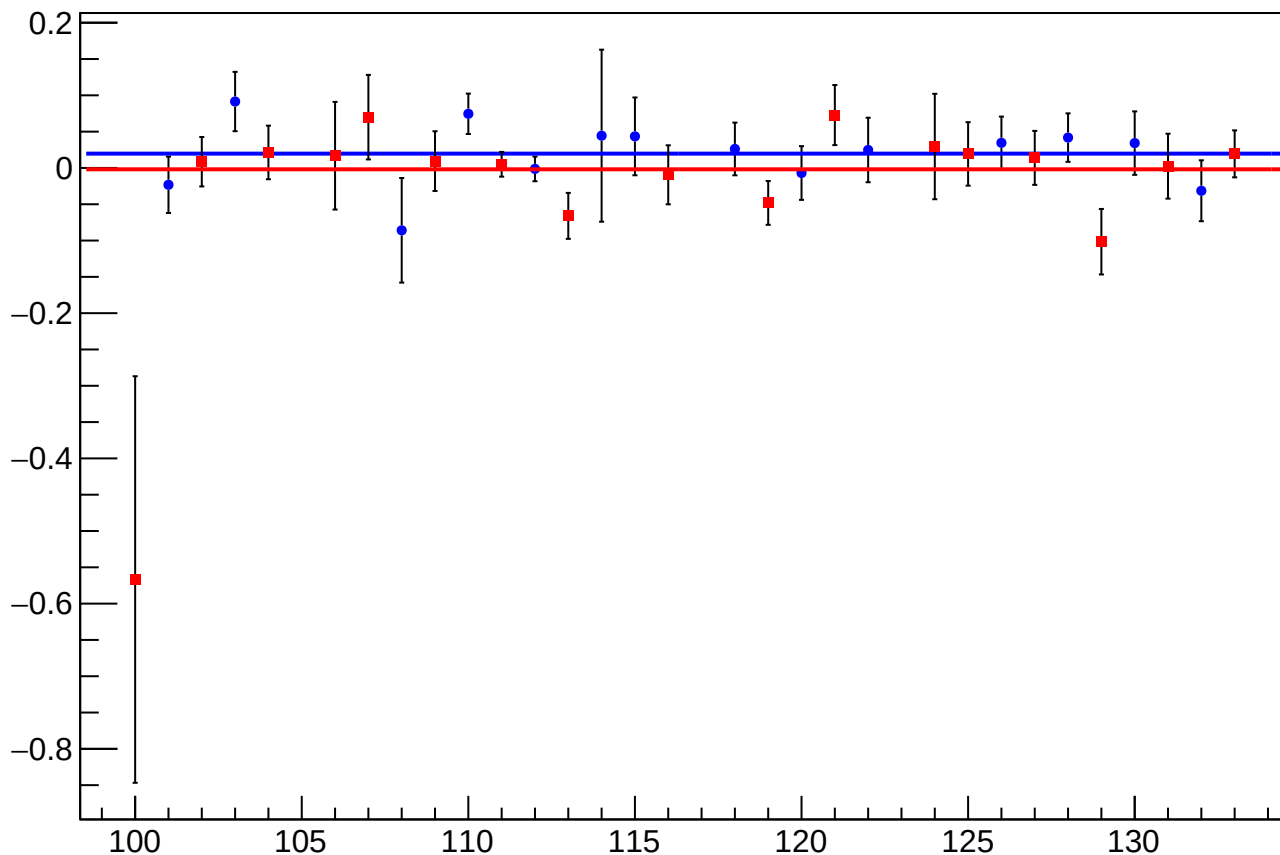
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.885+/-0.005  $\chi^2/\text{NDF}$ : 2723550.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.020 $\pm$ 0.009  $\chi^2$ /NDF: 14.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.002 $\pm$ 0.009  $\chi^2$ /NDF: 22.1/16

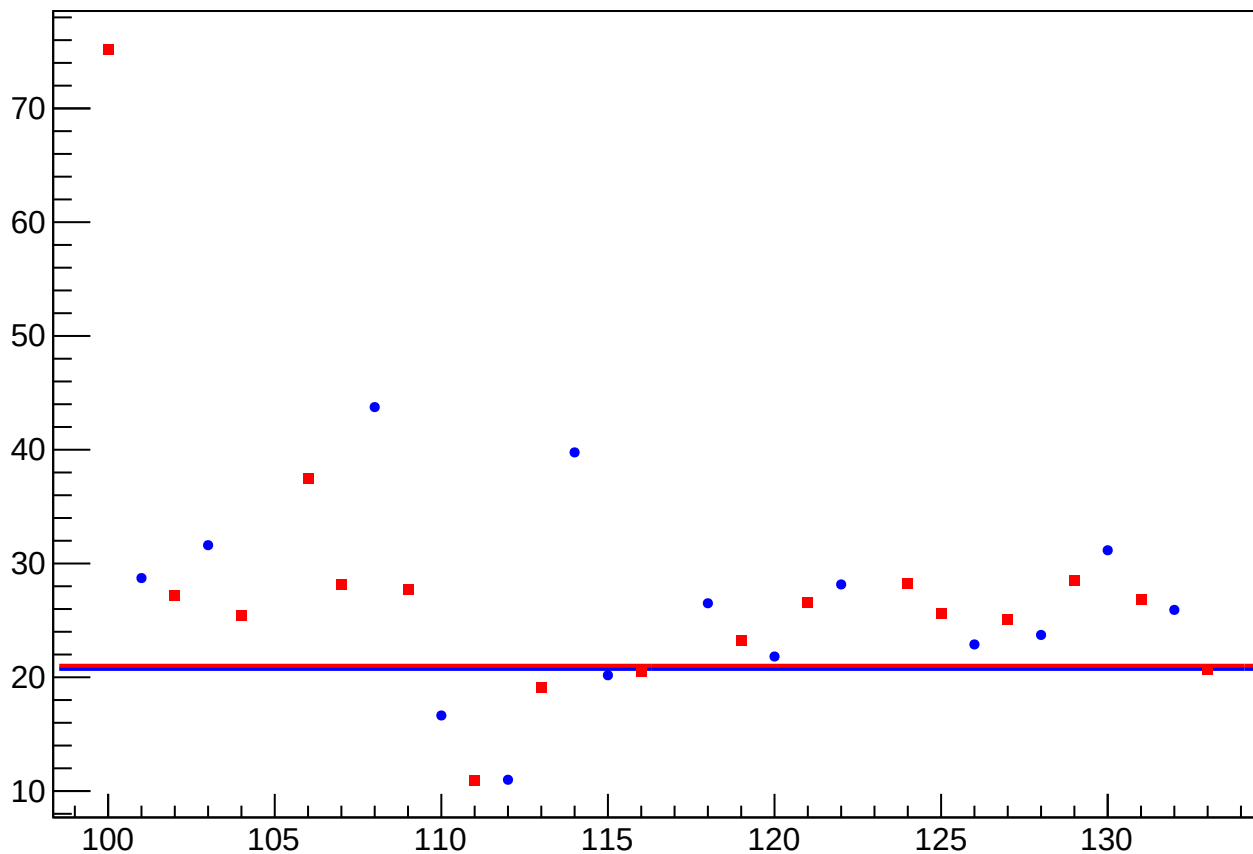
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.006  $\chi^2$ /NDF: 39.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 20.738+/-0.007  $\chi^2/\text{NDF}$ : 1459282.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.015+/-0.006  $\chi^2/\text{NDF}$ : 1263344.4/16

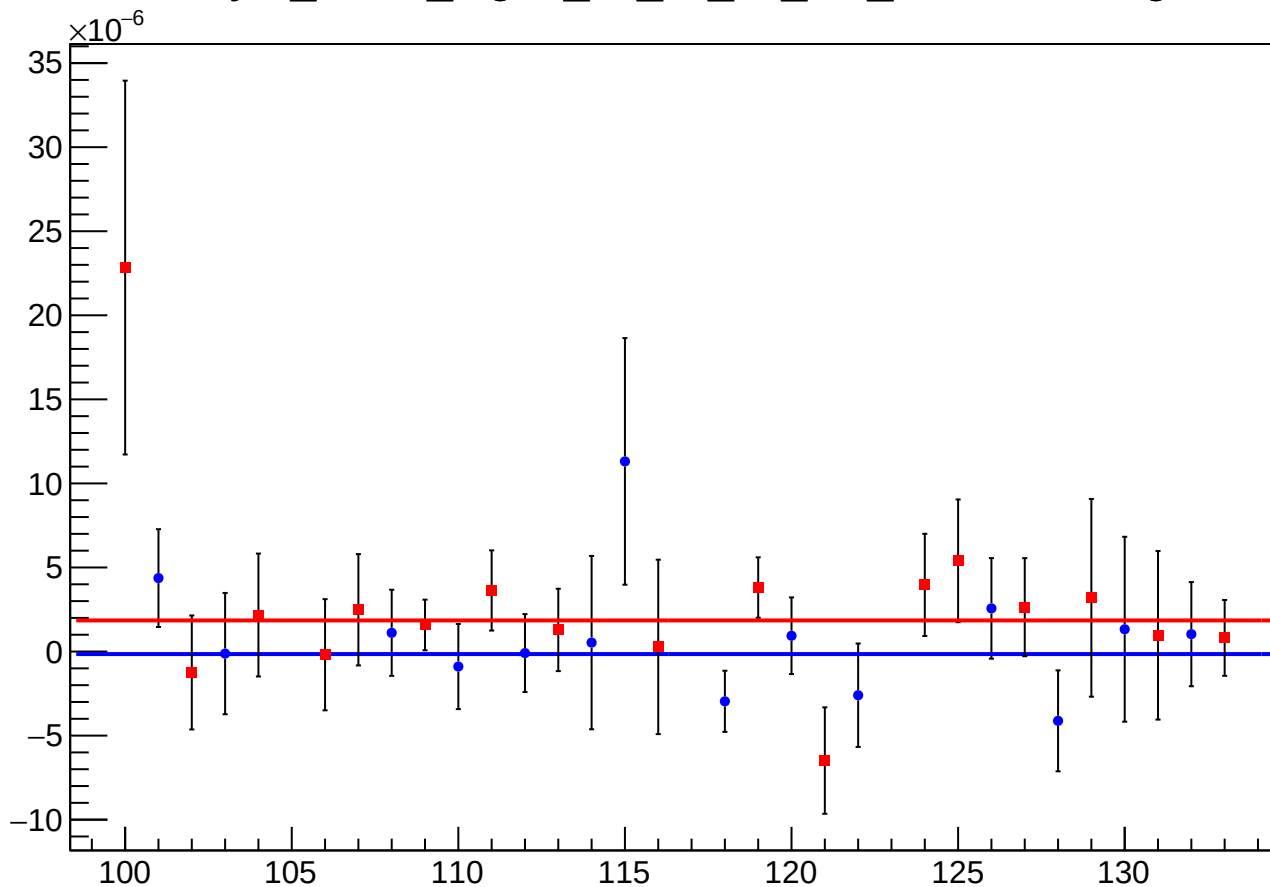
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

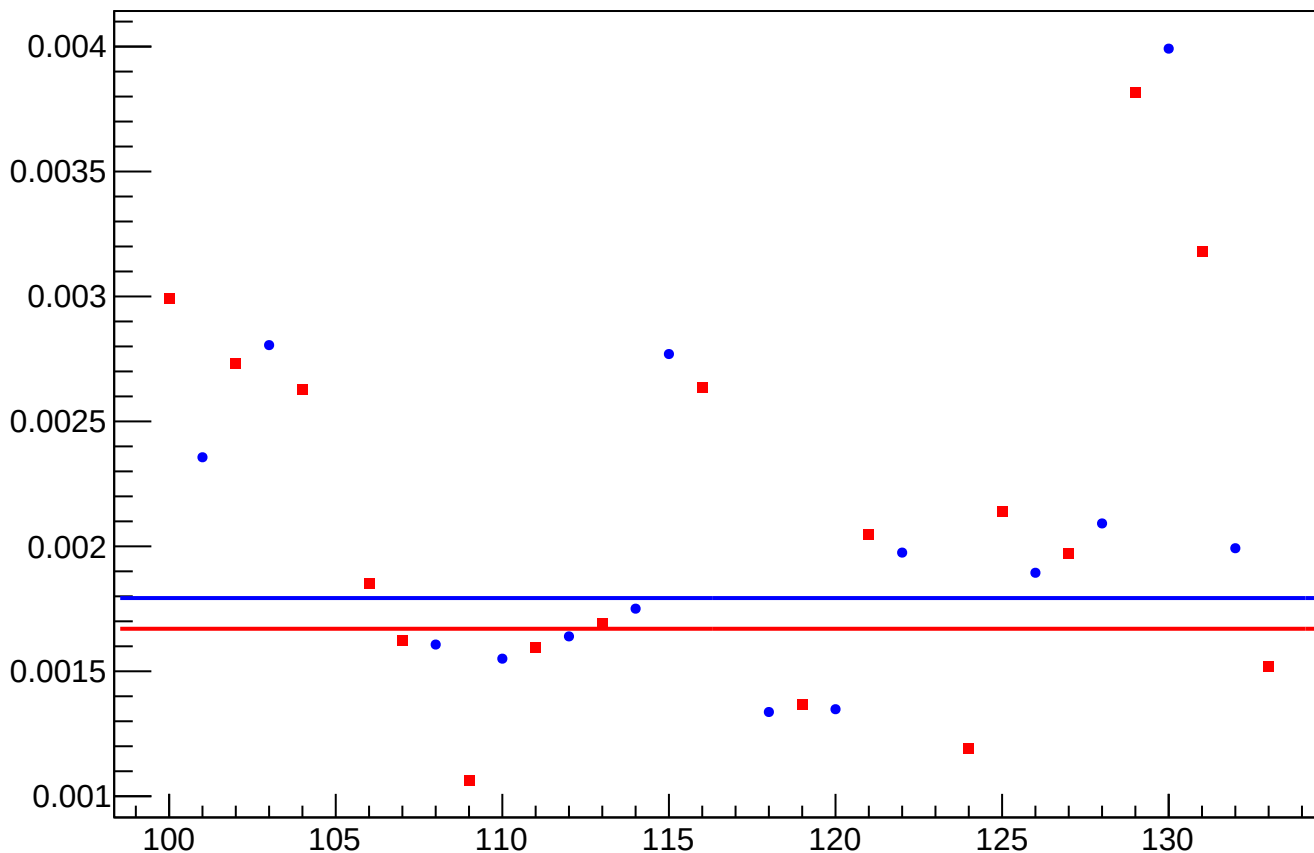
All: 20.885+/-0.005  $\chi^2/\text{NDF}$ : 2723550.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam8\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



# asym\_sam8\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 864607.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1410311.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

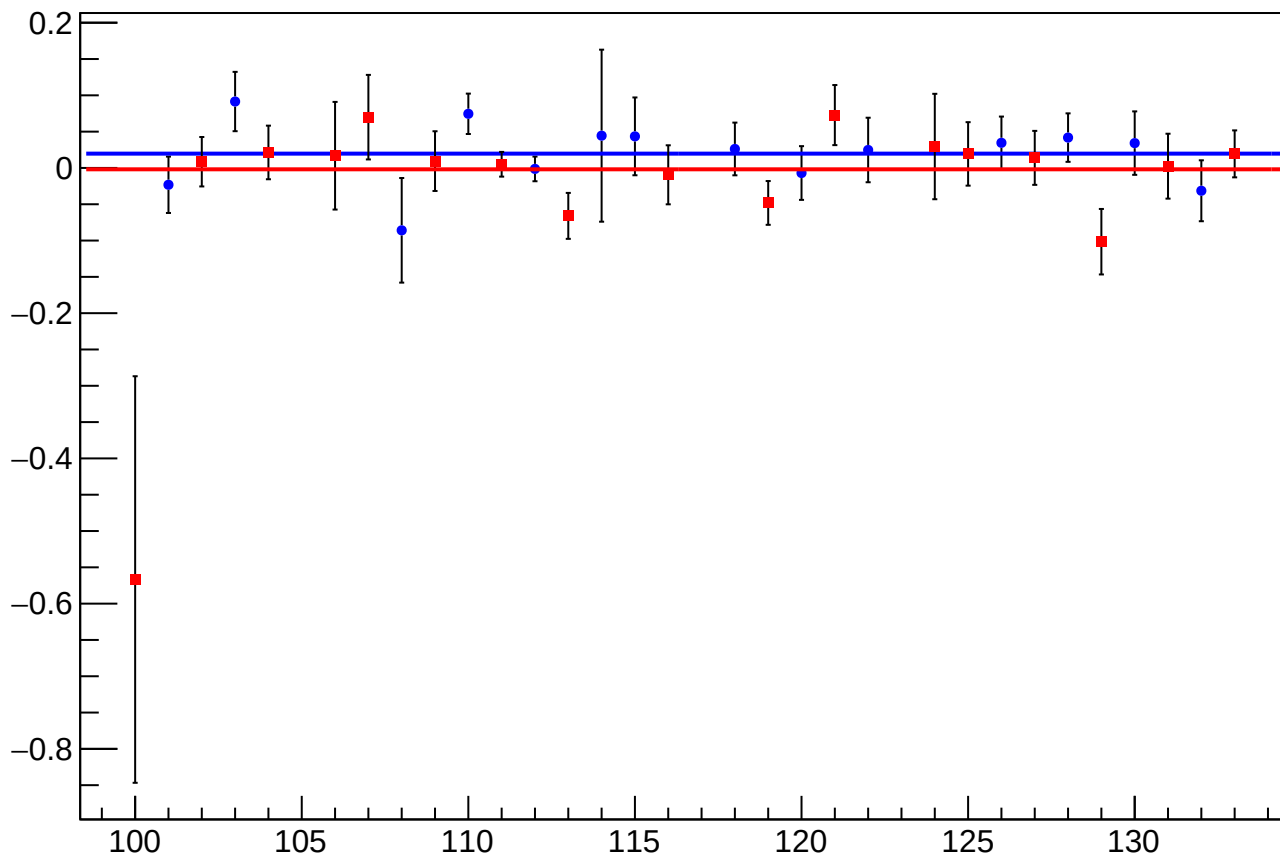
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2303639.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam8\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.020+/-0.009  $\chi^2/\text{NDF}$ : 14.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.002+/-0.009  $\chi^2/\text{NDF}$ : 22.1/16

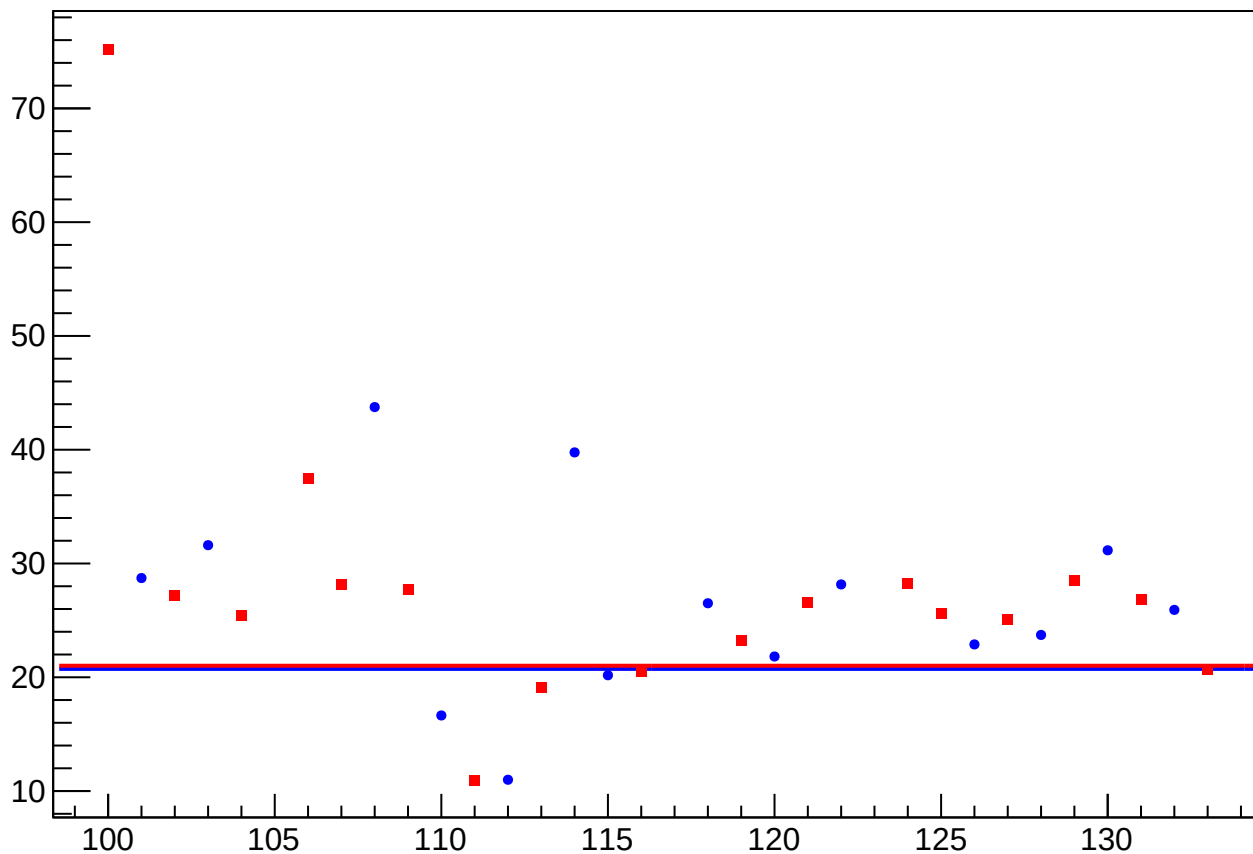
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.006  $\chi^2/\text{NDF}$ : 39.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 20.738+/-0.007  $\chi^2/\text{NDF}$ : 1459405.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.014+/-0.006  $\chi^2/\text{NDF}$ : 1263451.6/16

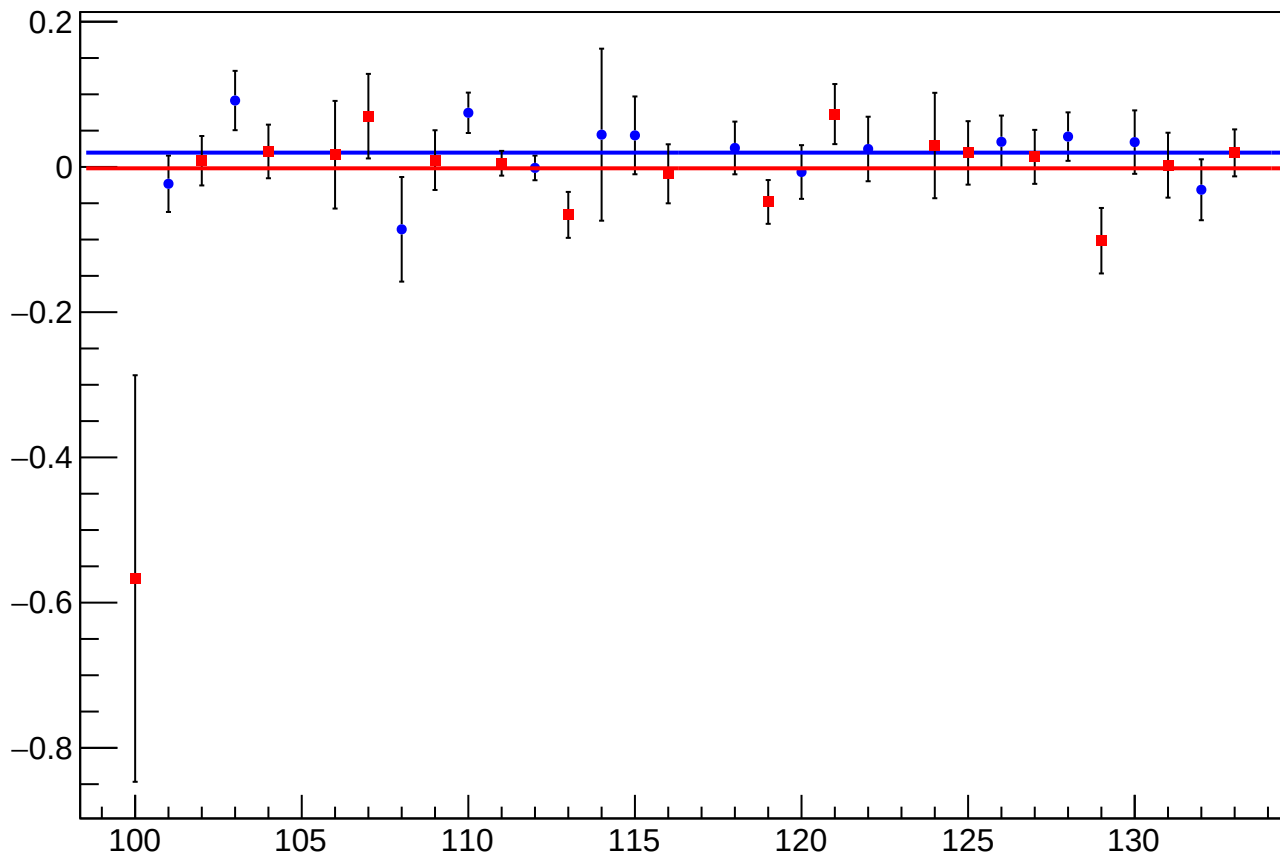
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.884+/-0.005  $\chi^2/\text{NDF}$ : 2723780.8/30

- 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: 0.020 $\pm$ 0.009  $\chi^2$ /NDF: 14.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.002 $\pm$ 0.009  $\chi^2$ /NDF: 22.1/16

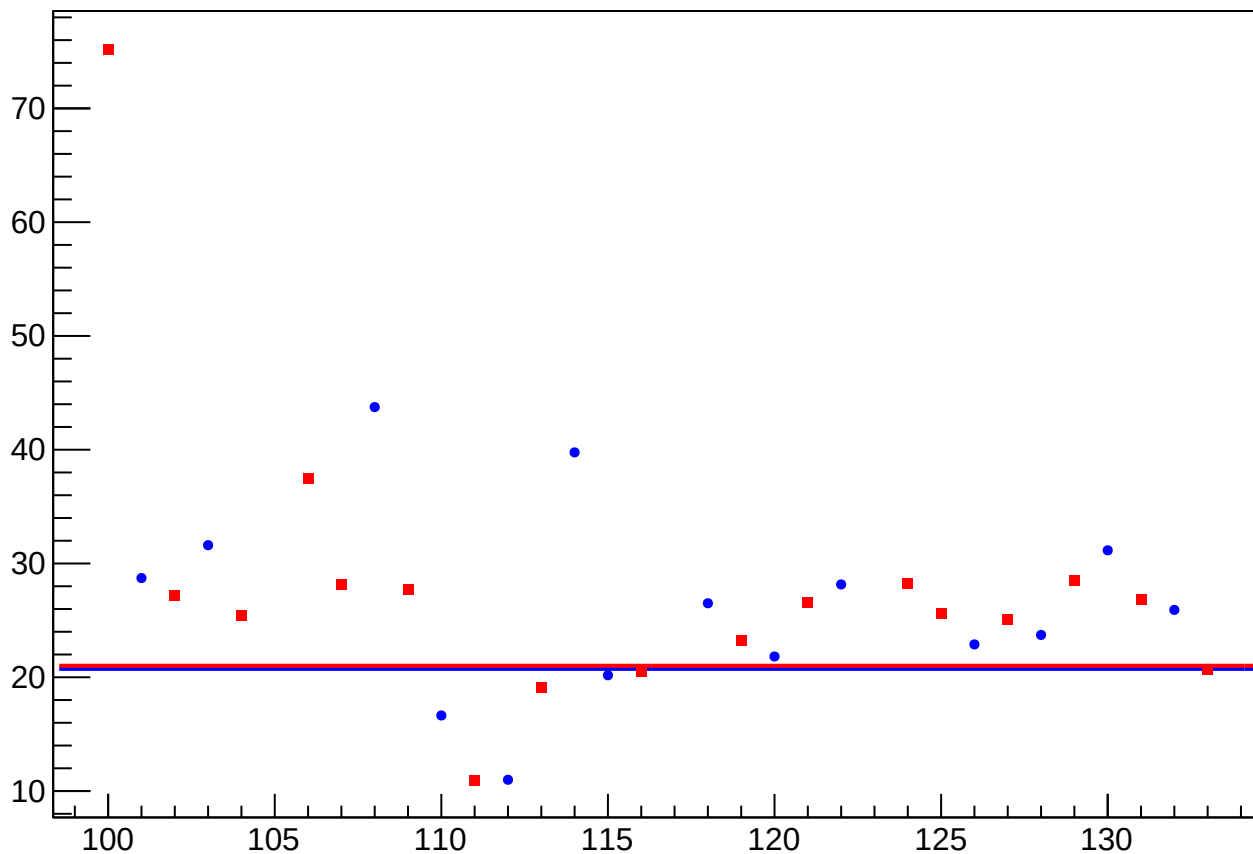
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.006  $\chi^2$ /NDF: 39.8/30

- 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: 20.738+/-0.007  $\chi^2/\text{NDF}$ : 1459405.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.014+/-0.006  $\chi^2/\text{NDF}$ : 1263451.6/16

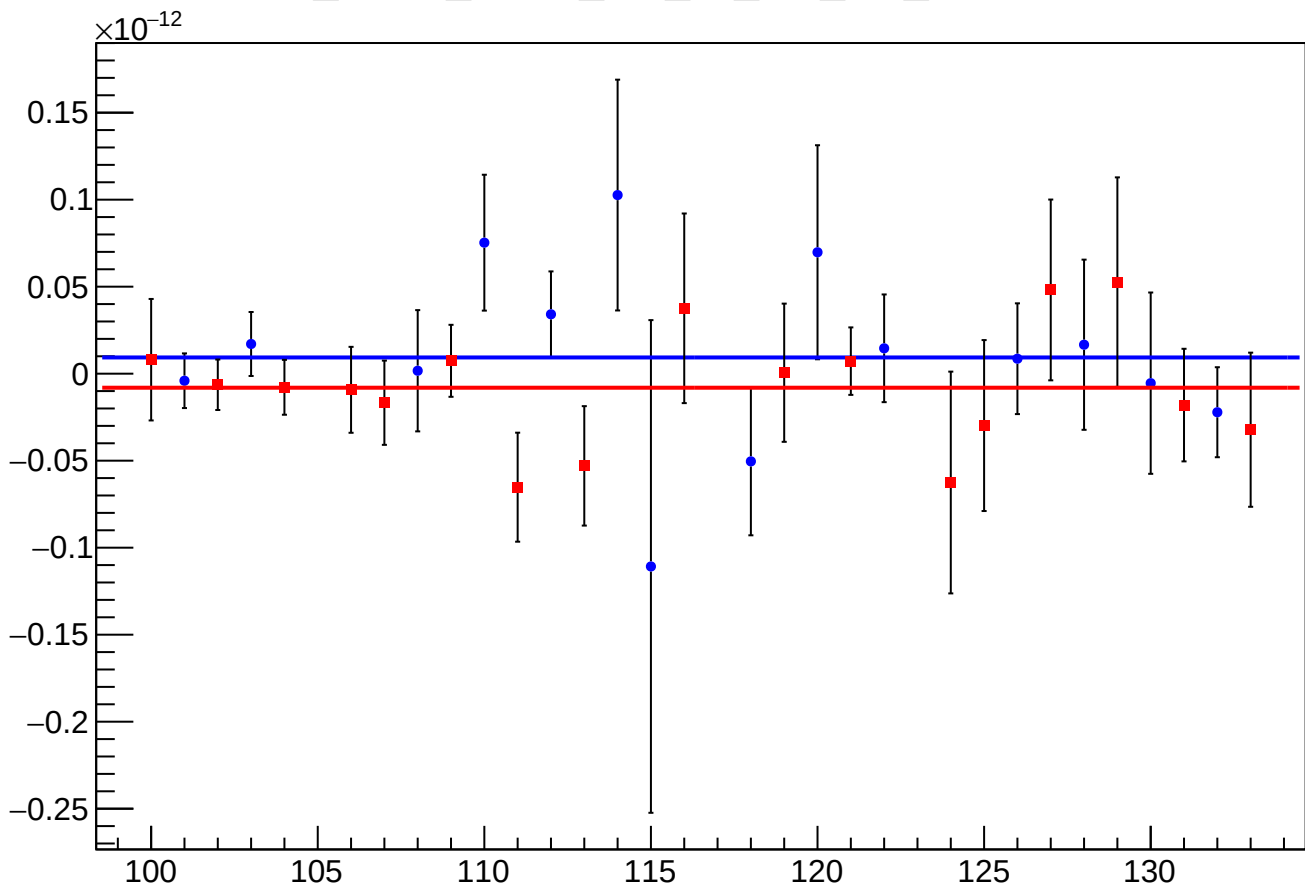
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.884+/-0.005  $\chi^2/\text{NDF}$ : 2723780.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.8/16

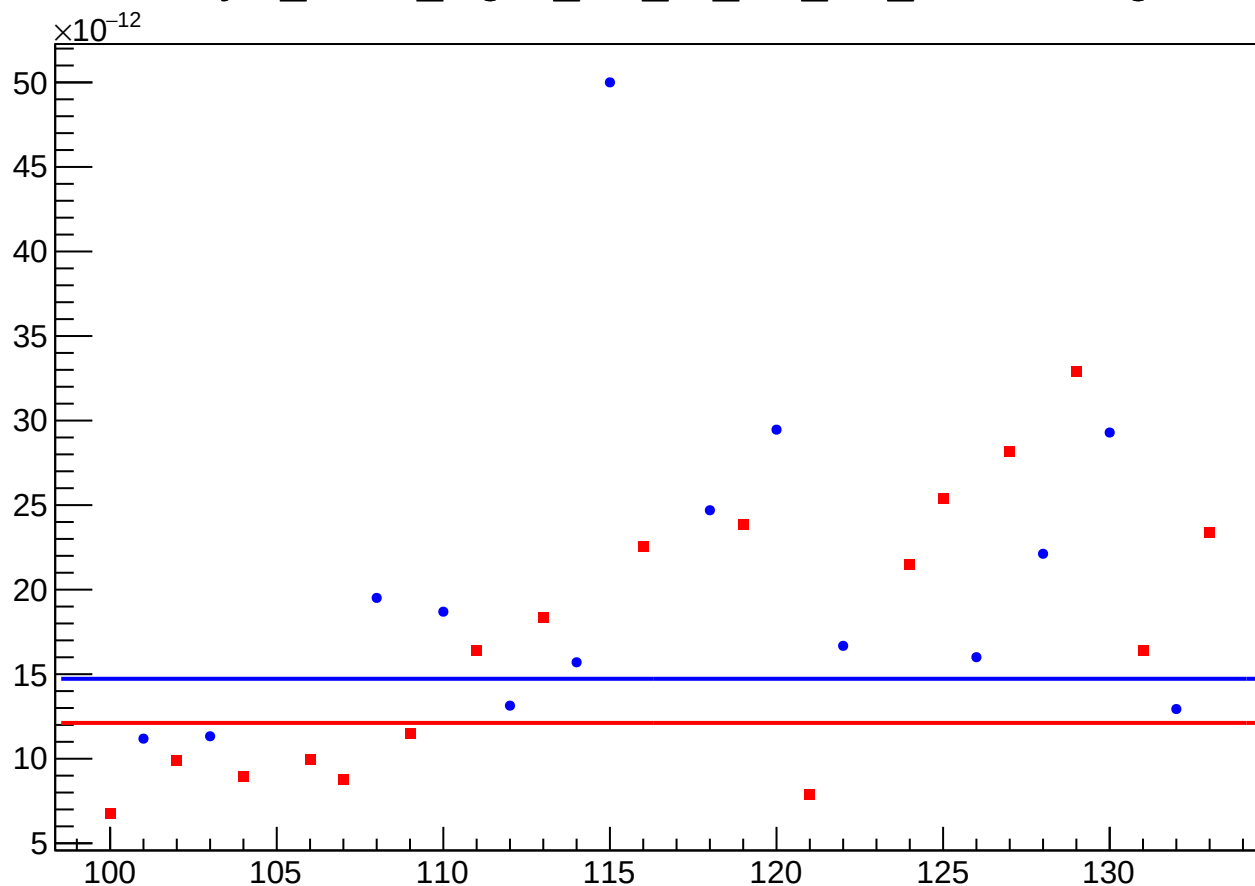
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 25.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 808801.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1462175.2/16

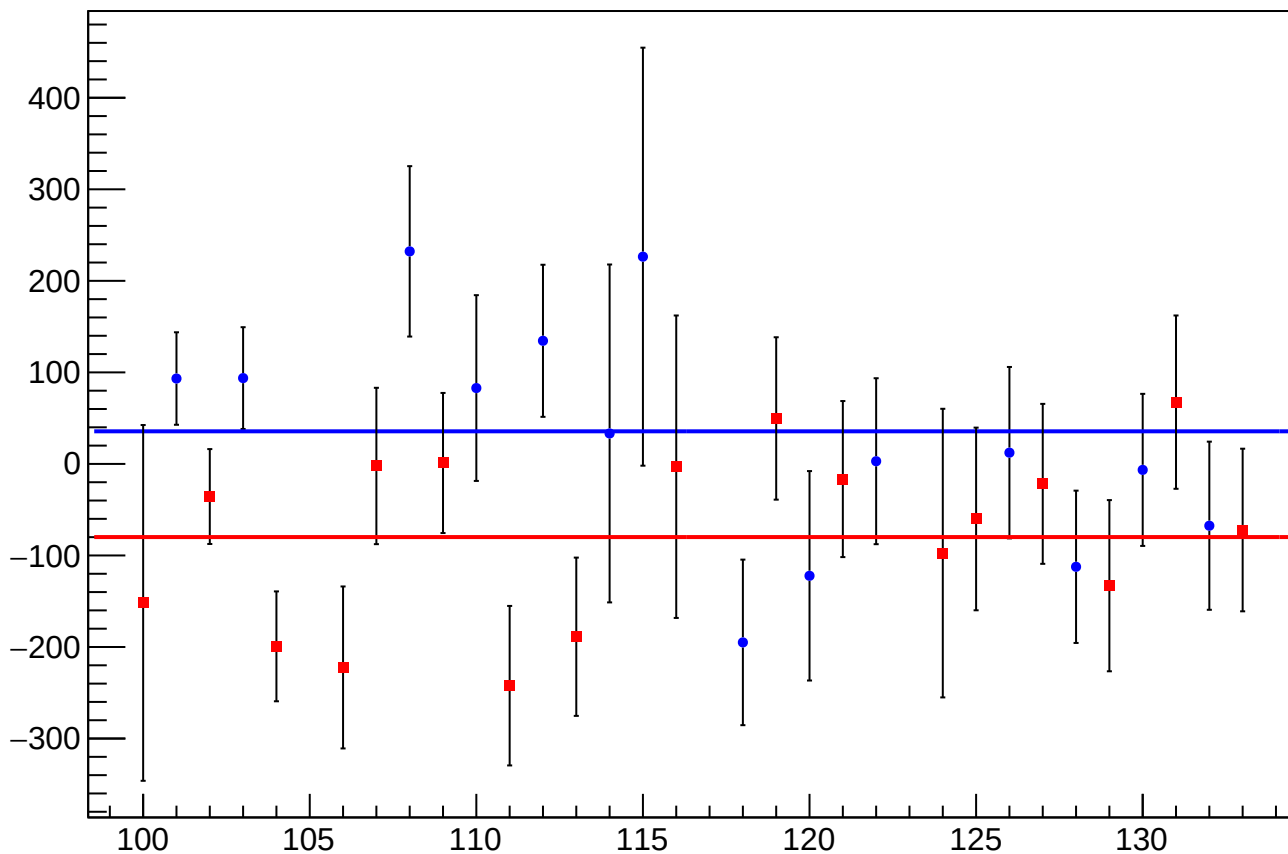
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2398576.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 35.619 $\pm$ 22.566  $\chi^2$ /NDF: 22.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -79.906 $\pm$ 20.838  $\chi^2$ /NDF: 20.6/16

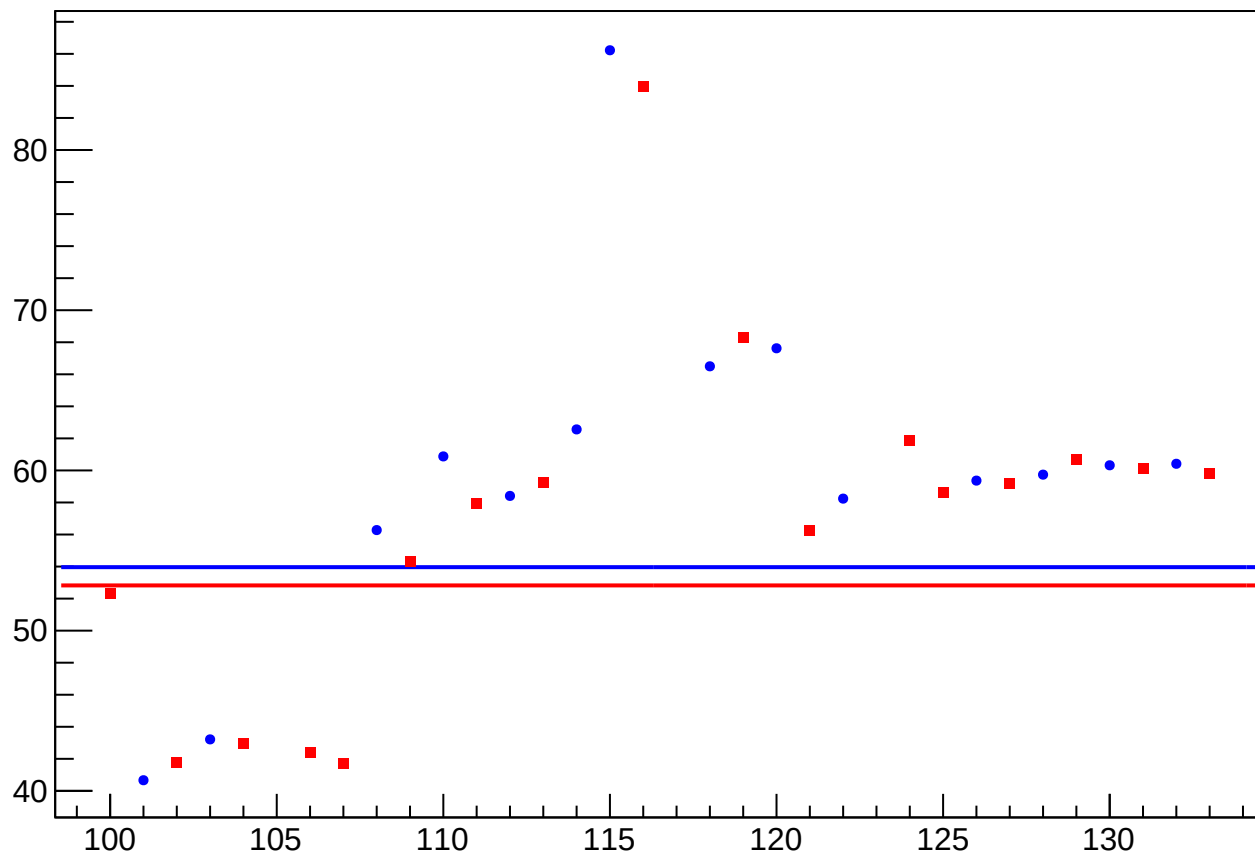
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -26.736 $\pm$ 15.309  $\chi^2$ /NDF: 57.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 53.963+/-0.016  $\chi^2/\text{NDF}$ : 383178.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.823+/-0.015  $\chi^2/\text{NDF}$ : 422622.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

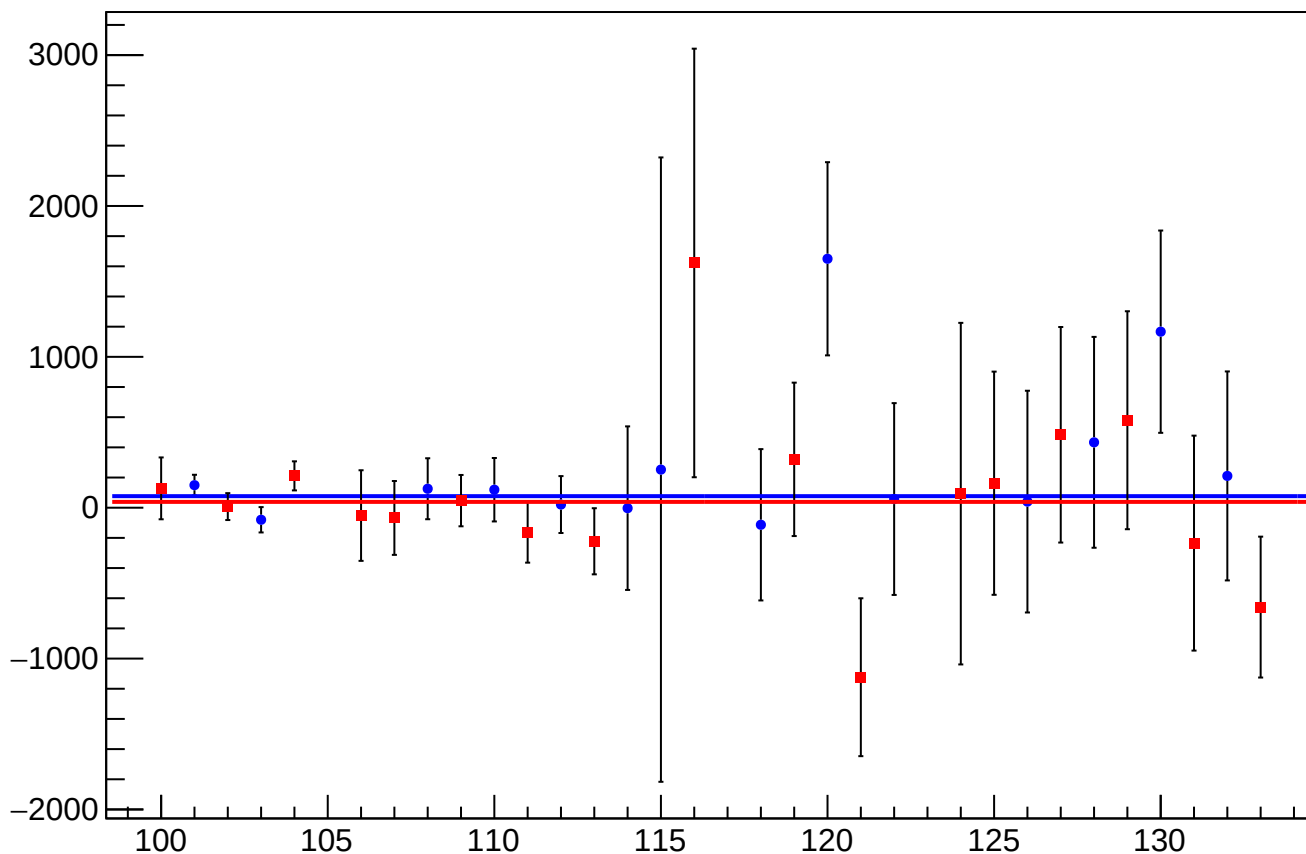
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.348+/-0.011  $\chi^2/\text{NDF}$ : 808555.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_15\_avg\_reg\_correction\_mean vs Slug



Right In: 76.555+/-47.189  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38.645+/-50.887  $\chi^2/\text{NDF}$ : 16.0/16

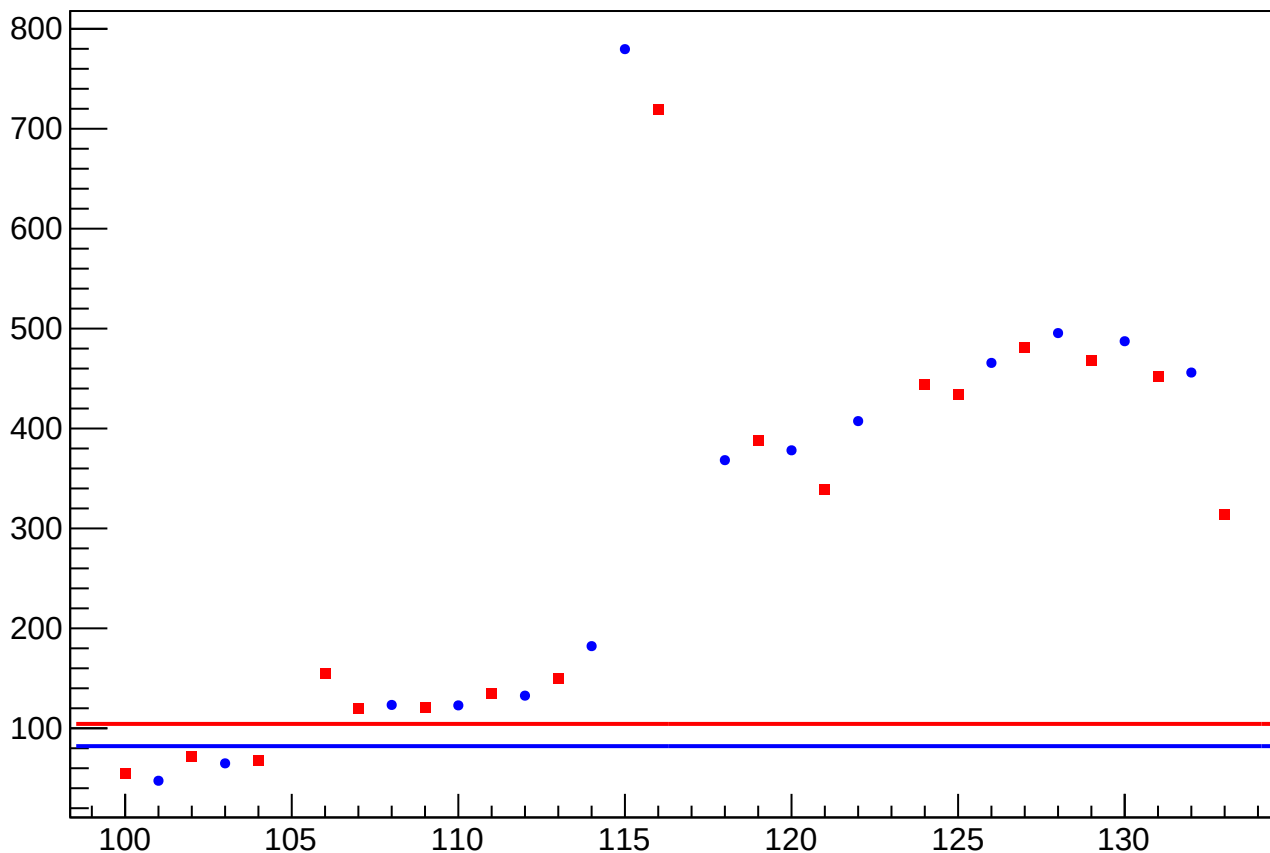
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 59.027+/-34.601  $\chi^2/\text{NDF}$ : 30.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_reg\_correction\_rms vs Slug



Right In: 82.116+/-0.033  $\chi^2/\text{NDF}$ : 5349866.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 104.362+/-0.036  $\chi^2/\text{NDF}$ : 4822569.8/16

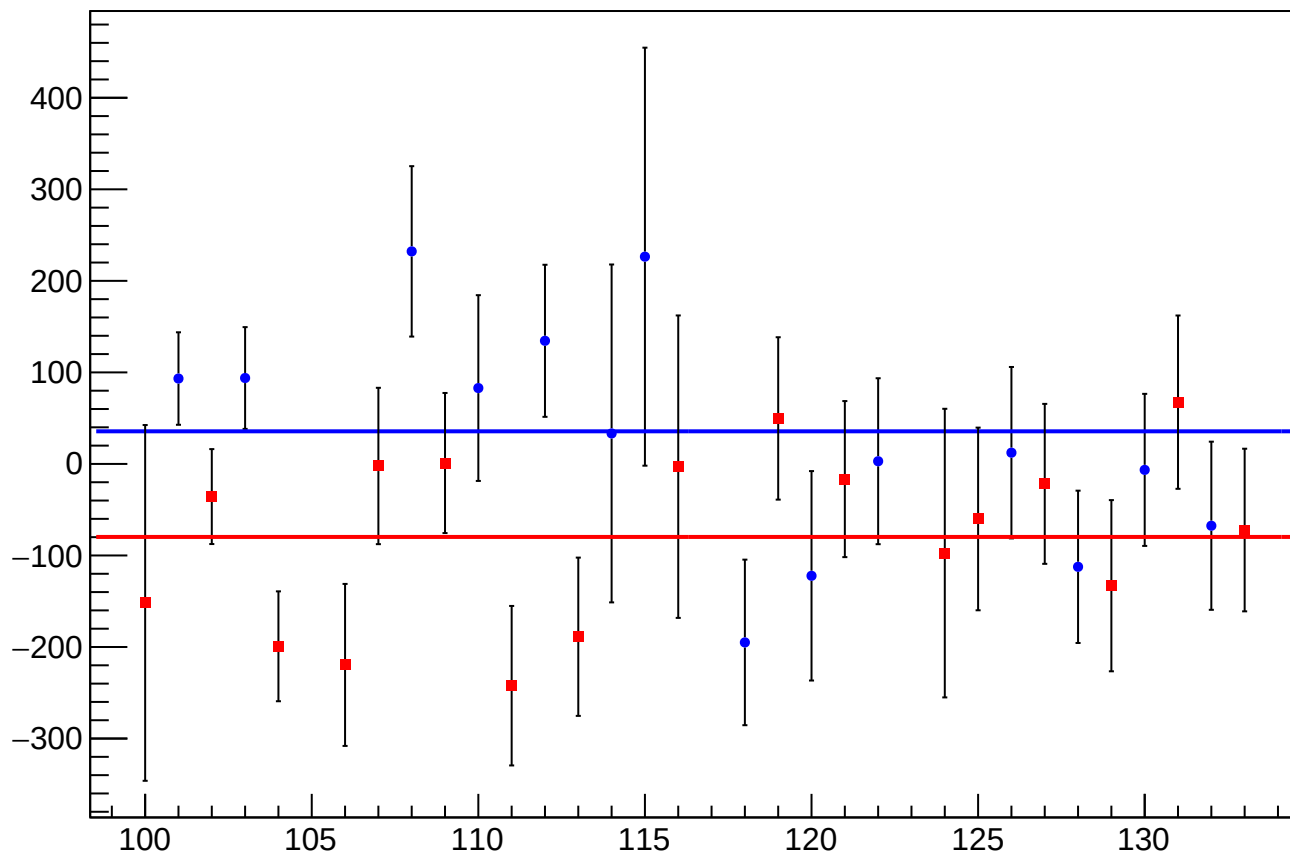
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 92.402+/-0.024  $\chi^2/\text{NDF}$ : 10377946.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 35.632 $\pm$ 22.566  $\chi^2$ /NDF: 22.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -79.756 $\pm$ 20.839  $\chi^2$ /NDF: 20.5/16

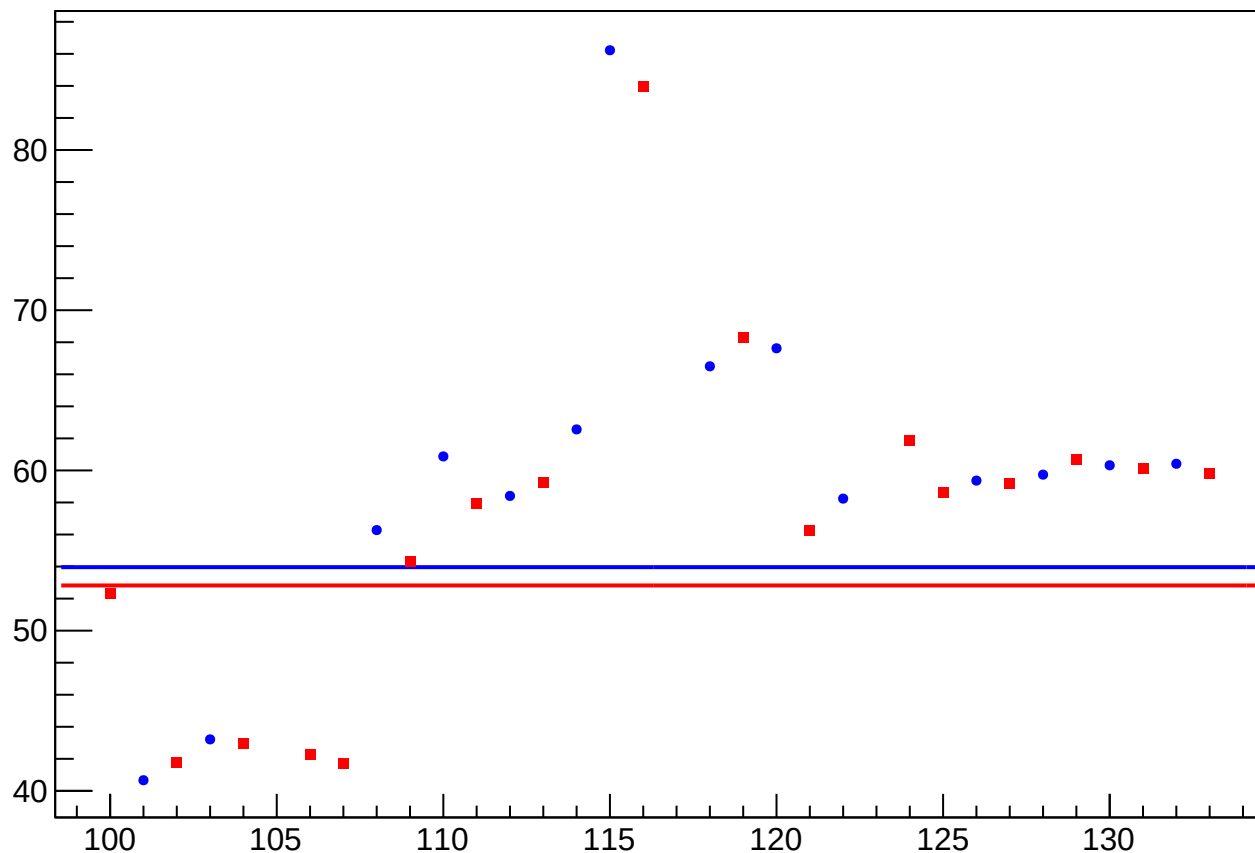
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -26.645 $\pm$ 15.310  $\chi^2$ /NDF: 57.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 53.963+/-0.016  $\chi^2/\text{NDF}$ : 383178.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.821+/-0.015  $\chi^2/\text{NDF}$ : 422928.8/16

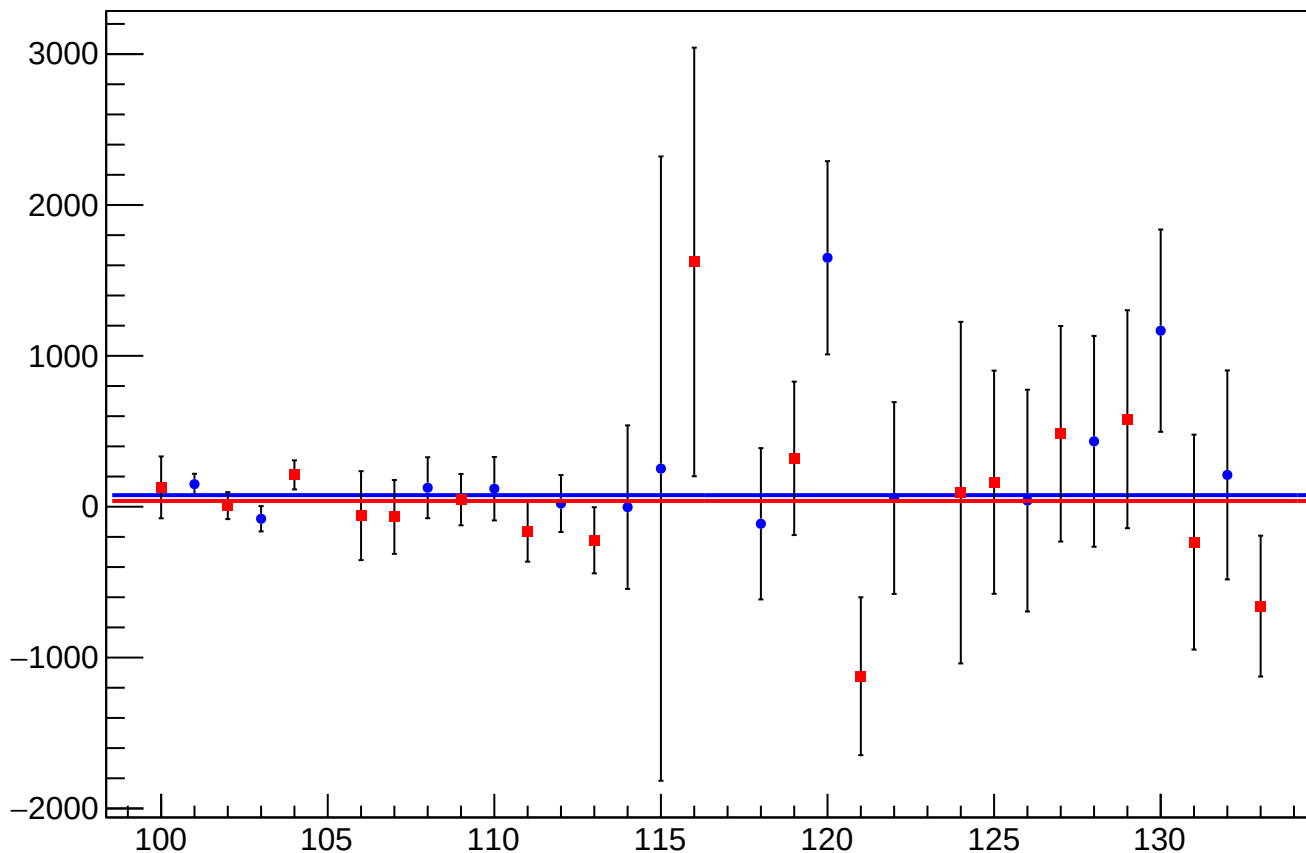
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.347+/-0.011  $\chi^2/\text{NDF}$ : 808873.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_cor\_correction\_mean vs Slug



Right In: 76.558+/-47.188  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38.172+/-50.843  $\chi^2/\text{NDF}$ : 16.1/16

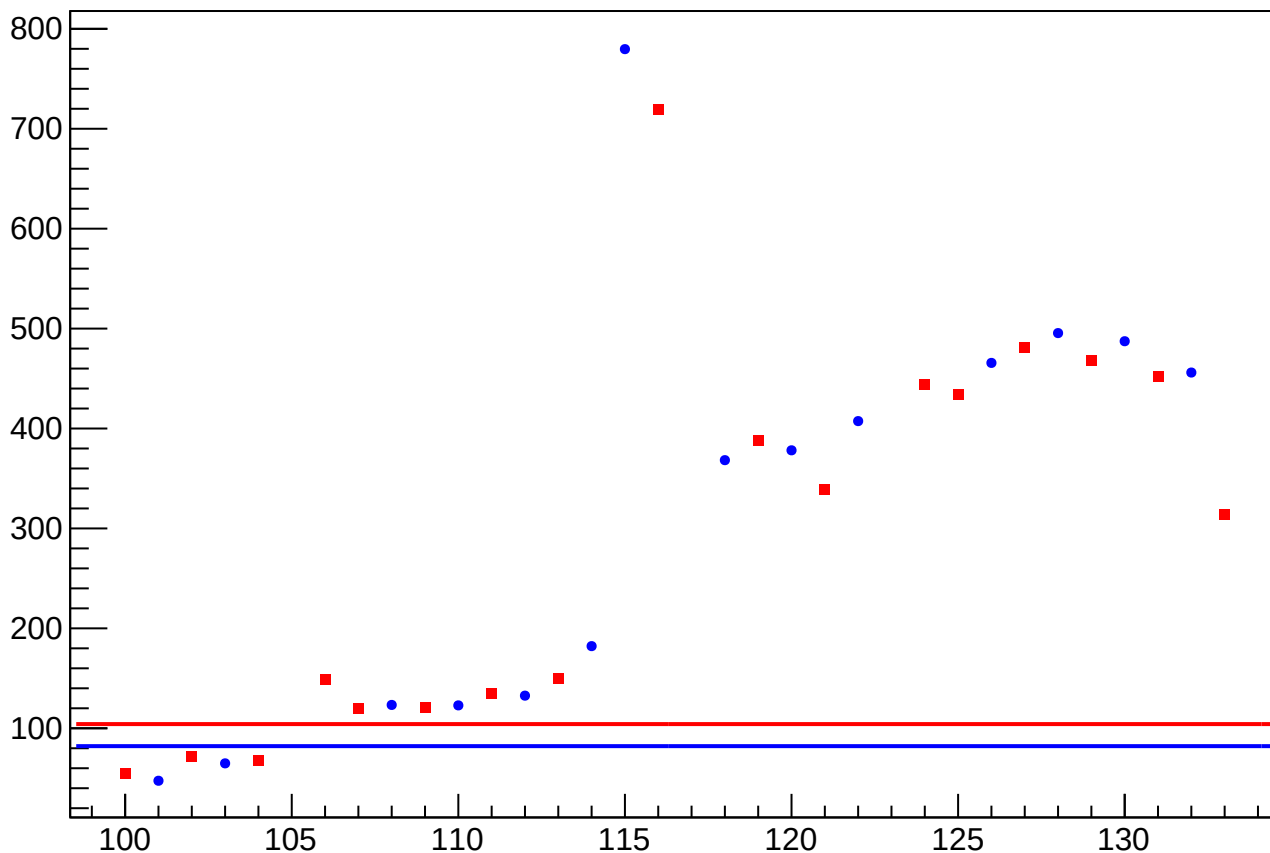
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 58.794+/-34.587  $\chi^2/\text{NDF}$ : 30.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_cor\_correction\_rms vs Slug



Right In: 82.114+/-0.033  $\chi^2/\text{NDF}$ : 5349918.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 104.187+/-0.036  $\chi^2/\text{NDF}$ : 4813477.3/16

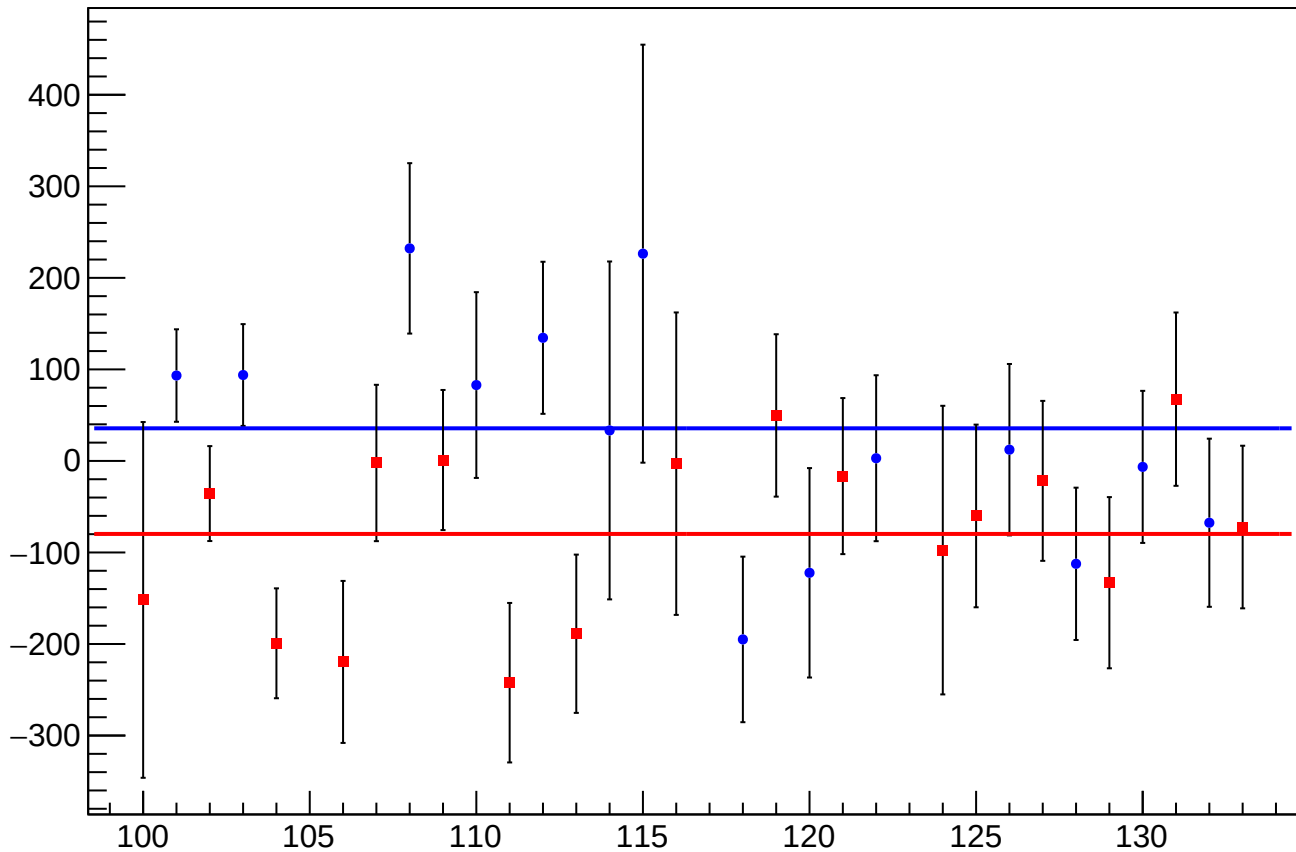
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 92.328+/-0.024  $\chi^2/\text{NDF}$ : 10365906.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 35.632 $\pm$ 22.566  $\chi^2$ /NDF: 22.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -79.756 $\pm$ 20.839  $\chi^2$ /NDF: 20.5/16

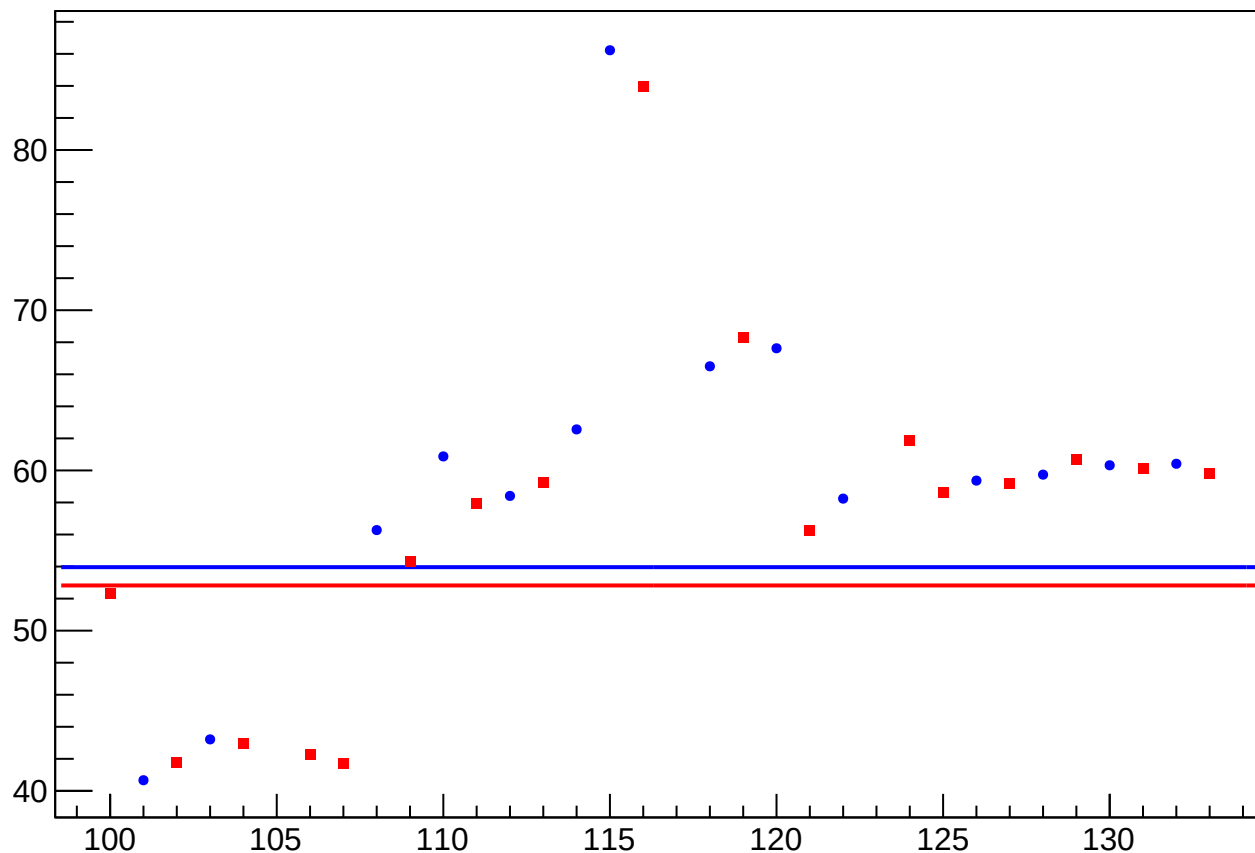
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -26.645 $\pm$ 15.310  $\chi^2$ /NDF: 57.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 53.963+/-0.016  $\chi^2/\text{NDF}$ : 383178.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.821+/-0.015  $\chi^2/\text{NDF}$ : 422928.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

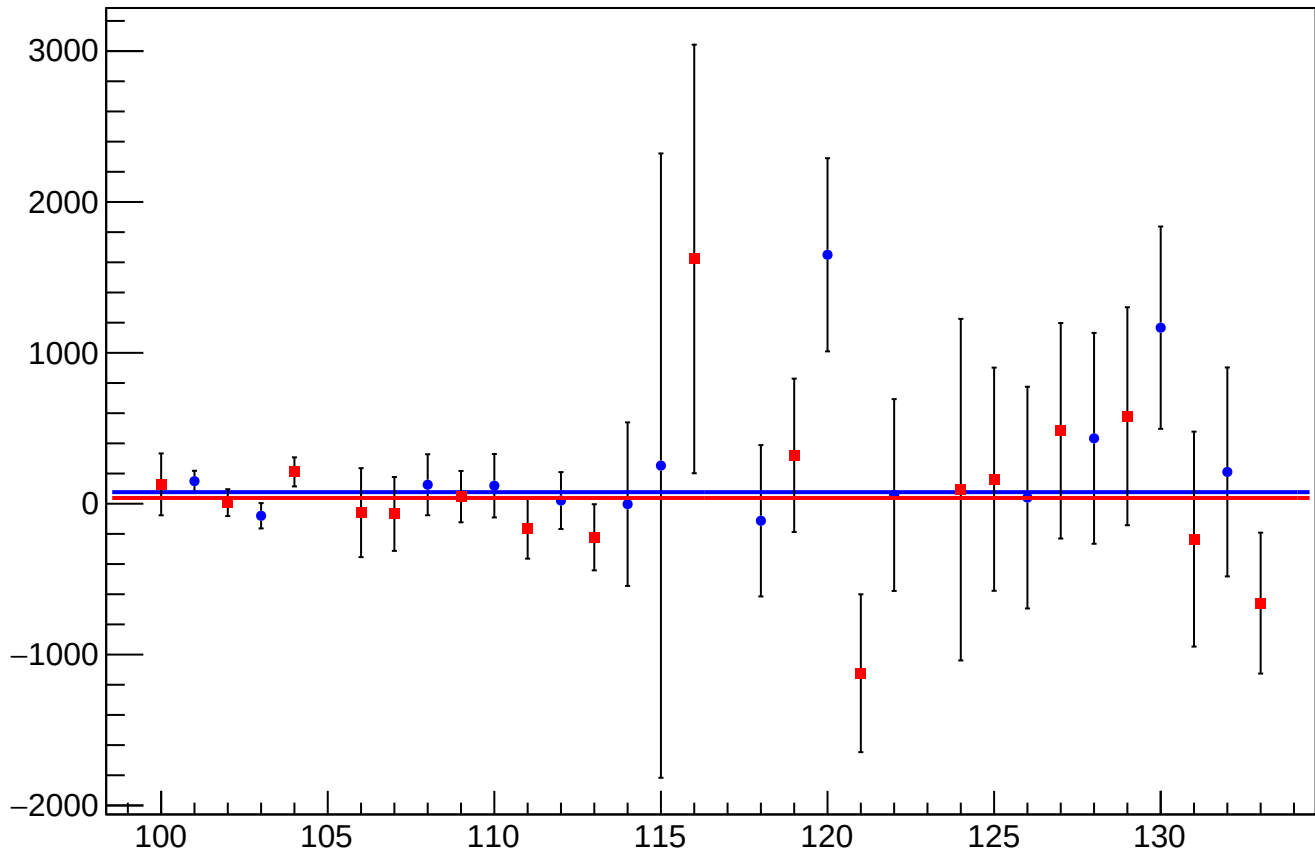
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.347+/-0.011  $\chi^2/\text{NDF}$ : 808873.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 76.558+/-47.188  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38.172+/-50.843  $\chi^2/\text{NDF}$ : 16.1/16

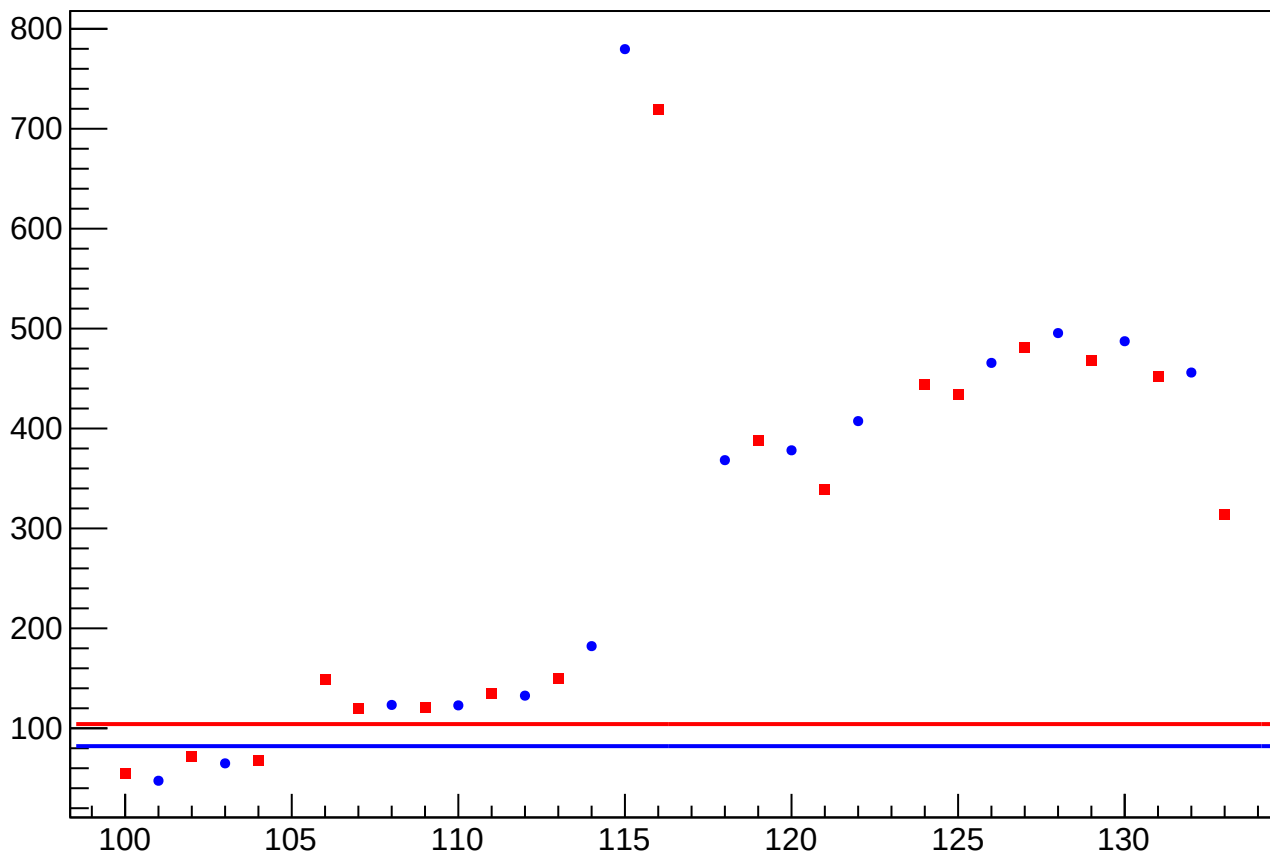
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 58.794+/-34.587  $\chi^2/\text{NDF}$ : 30.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 82.114+/-0.033  $\chi^2/\text{NDF}$ : 5349918.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 104.187+/-0.036  $\chi^2/\text{NDF}$ : 4813477.3/16

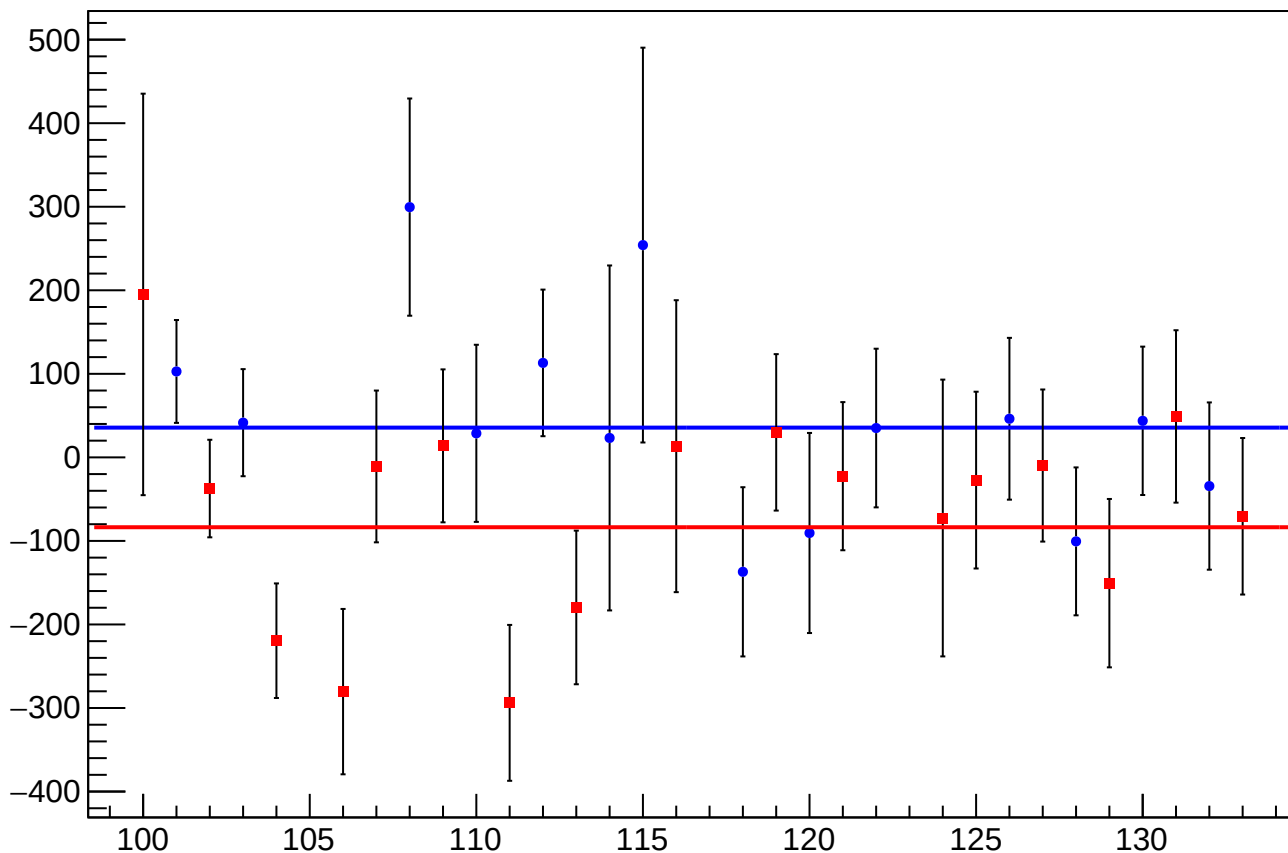
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 92.328+/-0.024  $\chi^2/\text{NDF}$ : 10365906.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 35.619 $\pm$ 25.273  $\chi^2$ /NDF: 13.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -83.628 $\pm$ 22.787  $\chi^2$ /NDF: 23.1/16

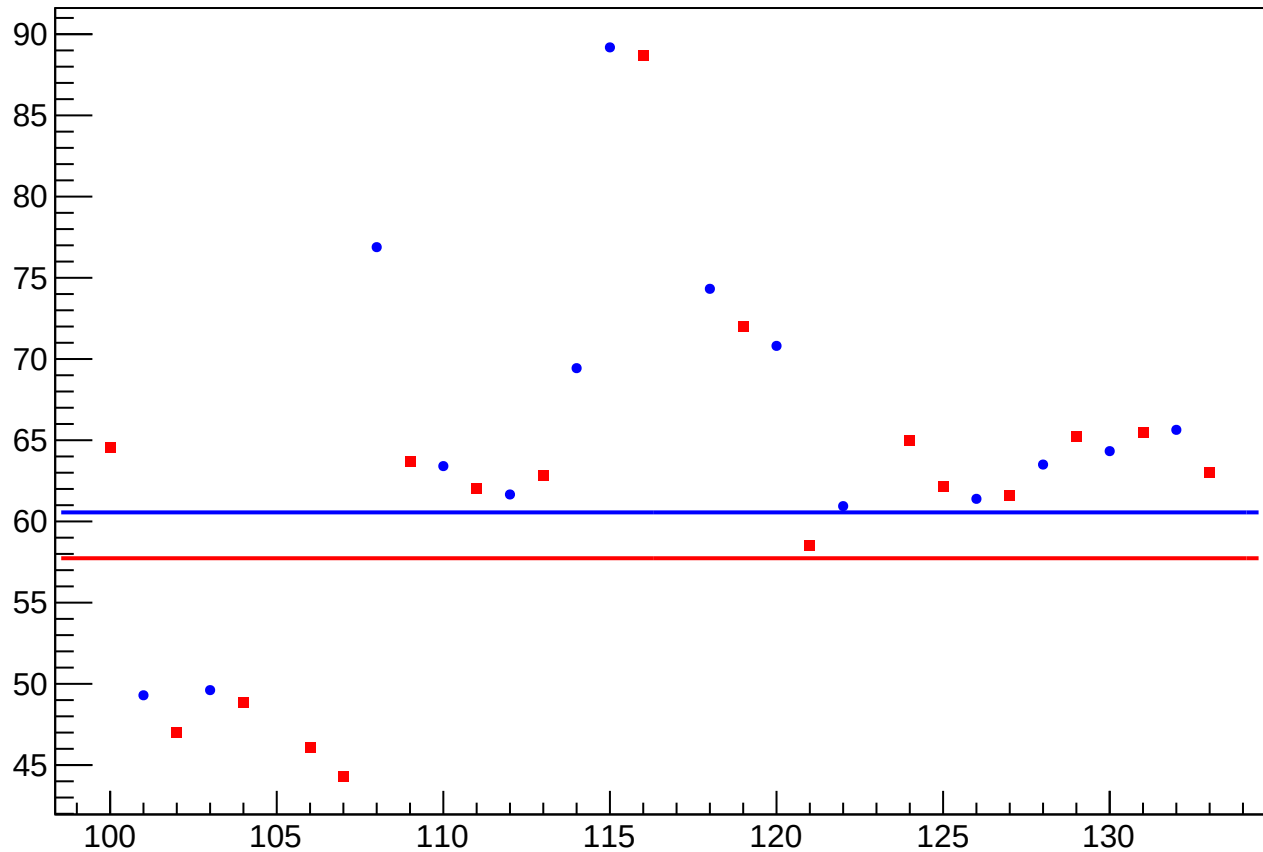
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -30.157 $\pm$ 16.924  $\chi^2$ /NDF: 49.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 60.557+/-0.018  $\chi^2/\text{NDF}$ : 254350.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 57.734+/-0.016  $\chi^2/\text{NDF}$ : 342411.1/16

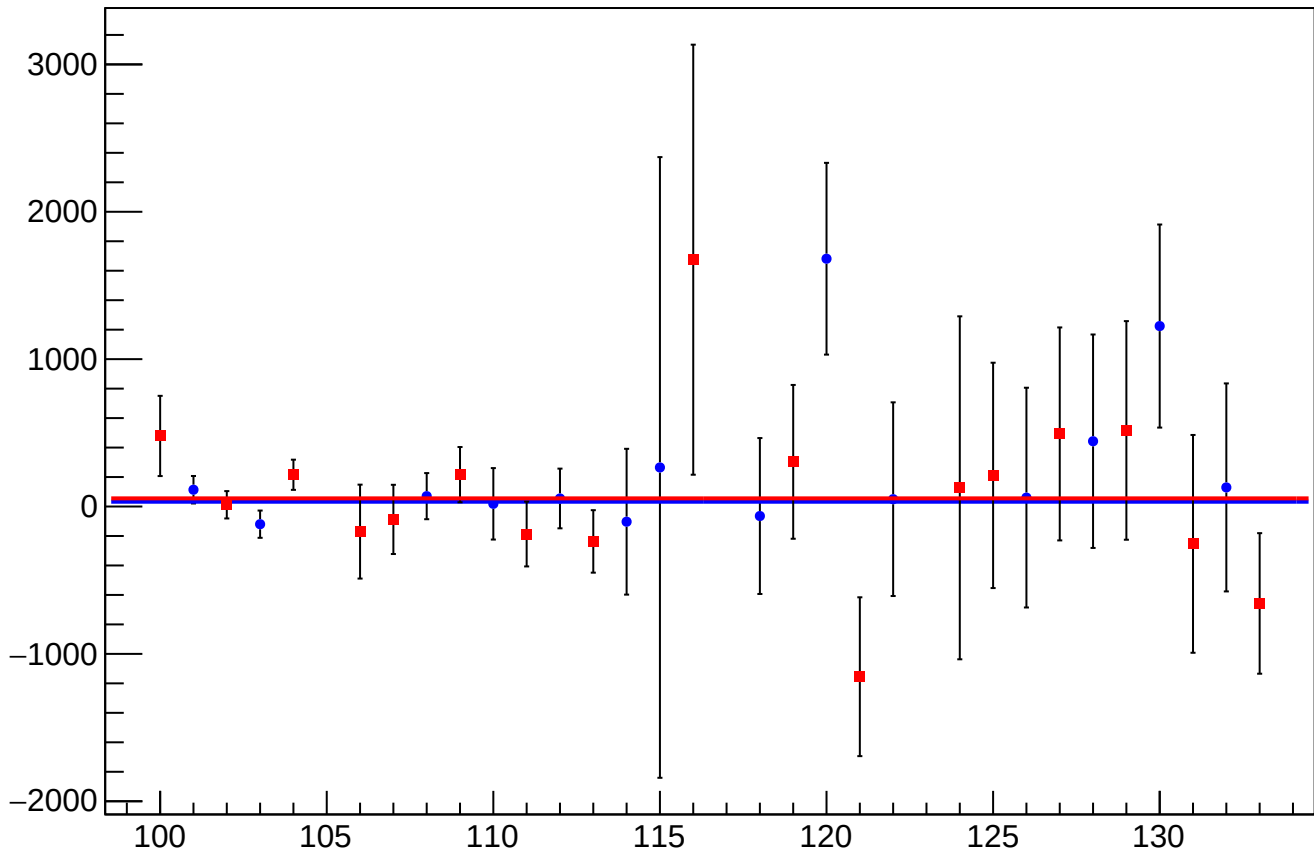
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 59.000+/-0.012  $\chi^2/\text{NDF}$ : 610522.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_dit\_correction\_mean vs Slug



Right In: 32.540+/-54.679  $\chi^2/\text{NDF}$ : 13.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.294+/-53.892  $\chi^2/\text{NDF}$ : 19.5/16

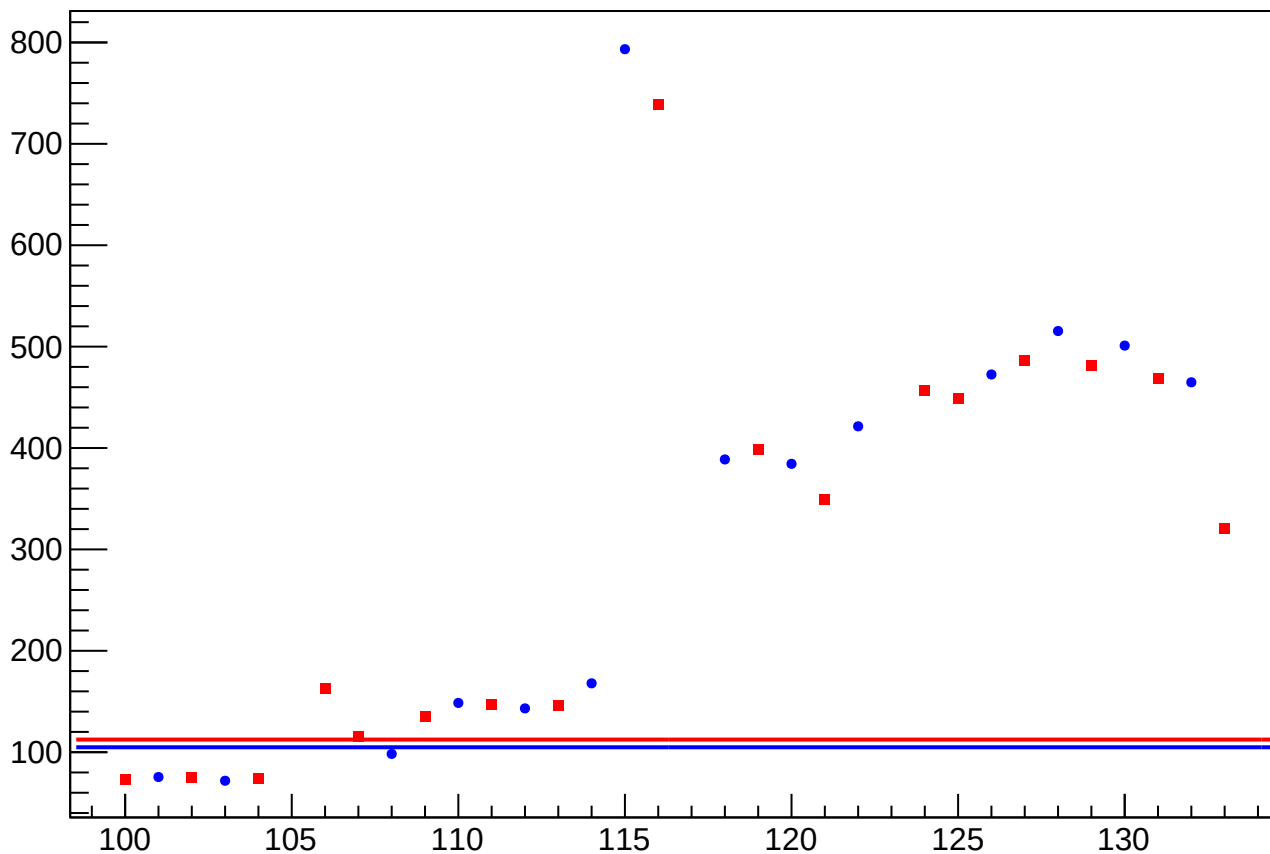
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 44.082+/-38.383  $\chi^2/\text{NDF}$ : 33.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_dit\_correction\_rms vs Slug



Right In: 104.855+/-0.039  $\chi^2/\text{NDF}$ : 4559033.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 112.441+/-0.038  $\chi^2/\text{NDF}$ : 4635853.9/16

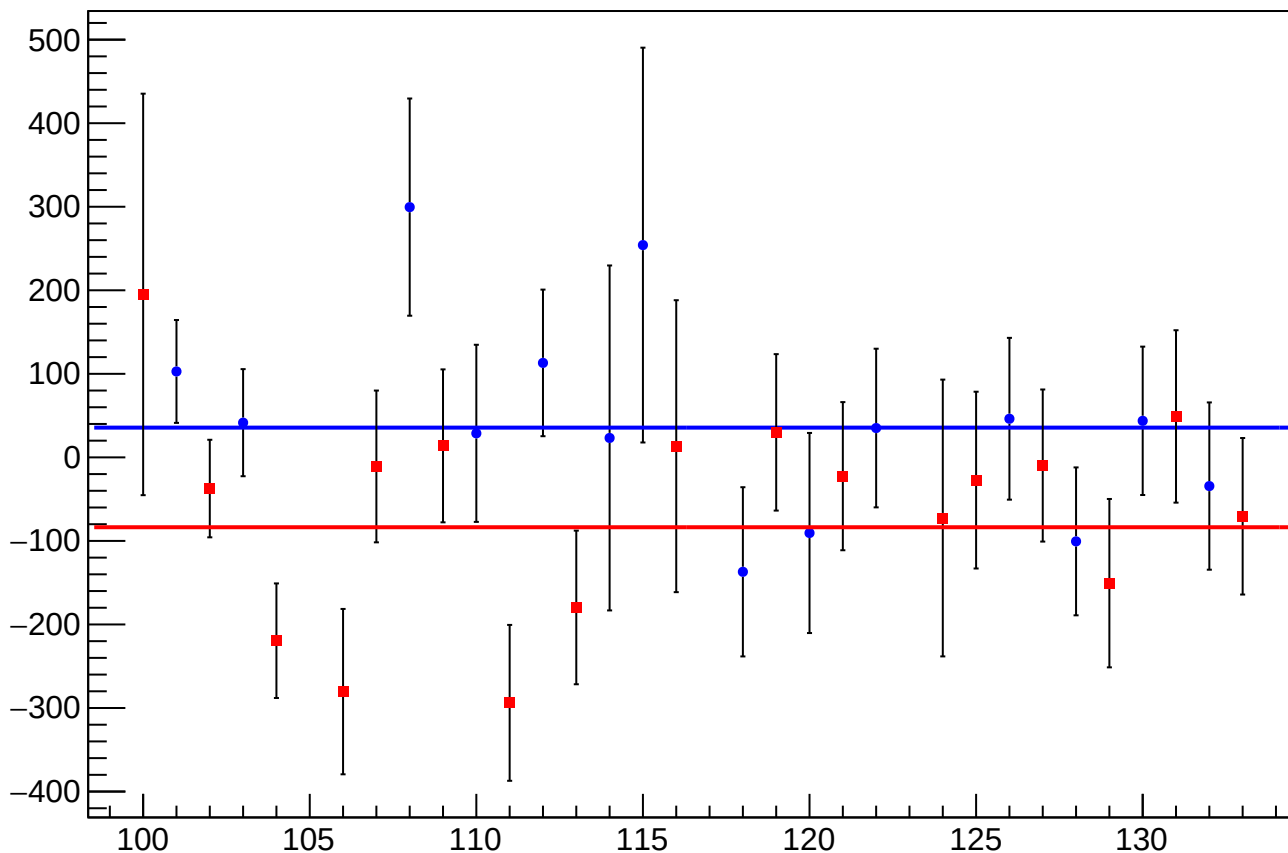
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 108.703+/-0.027  $\chi^2/\text{NDF}$ : 9214412.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 35.619 $\pm$ 25.273  $\chi^2$ /NDF: 13.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -83.627 $\pm$ 22.787  $\chi^2$ /NDF: 23.1/16

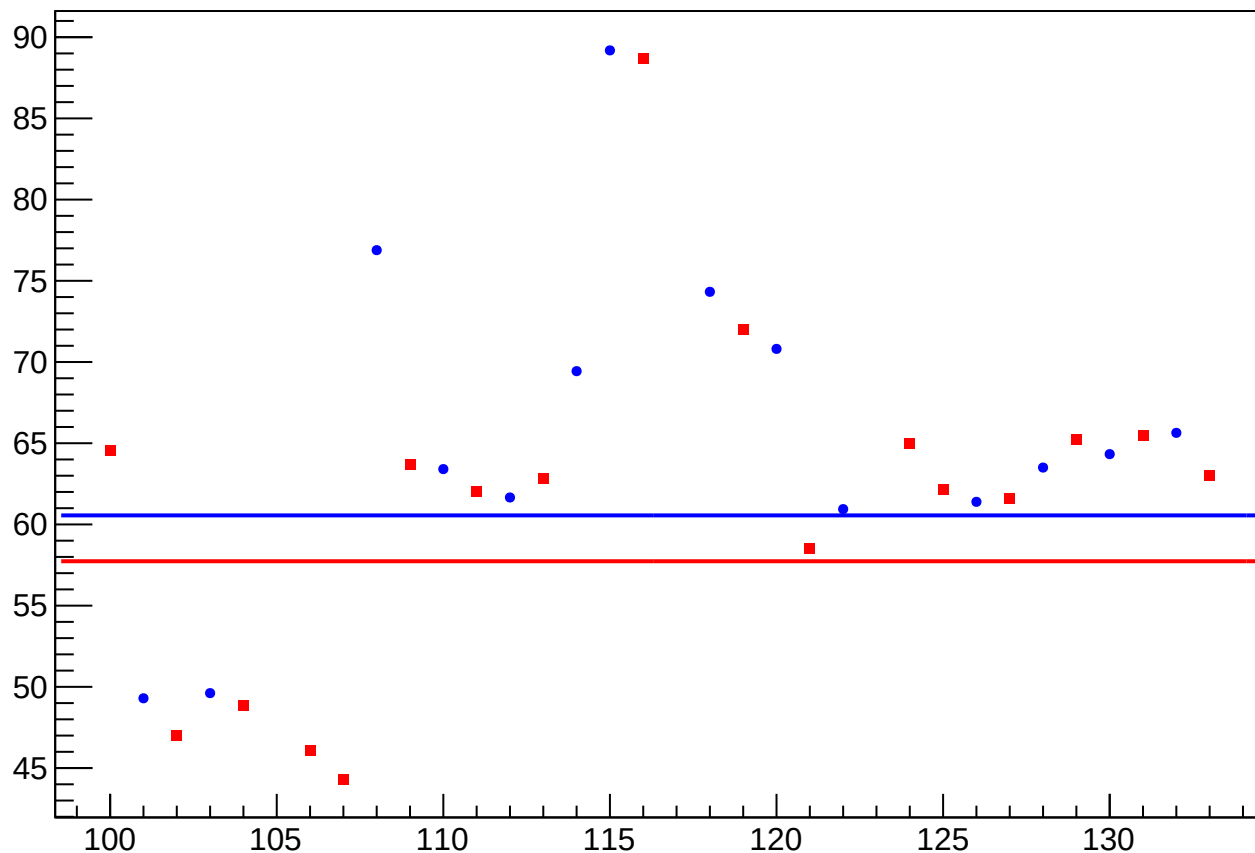
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -30.157 $\pm$ 16.924  $\chi^2$ /NDF: 49.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 60.557+/-0.018  $\chi^2/\text{NDF}$ : 254348.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 57.734+/-0.016  $\chi^2/\text{NDF}$ : 342408.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

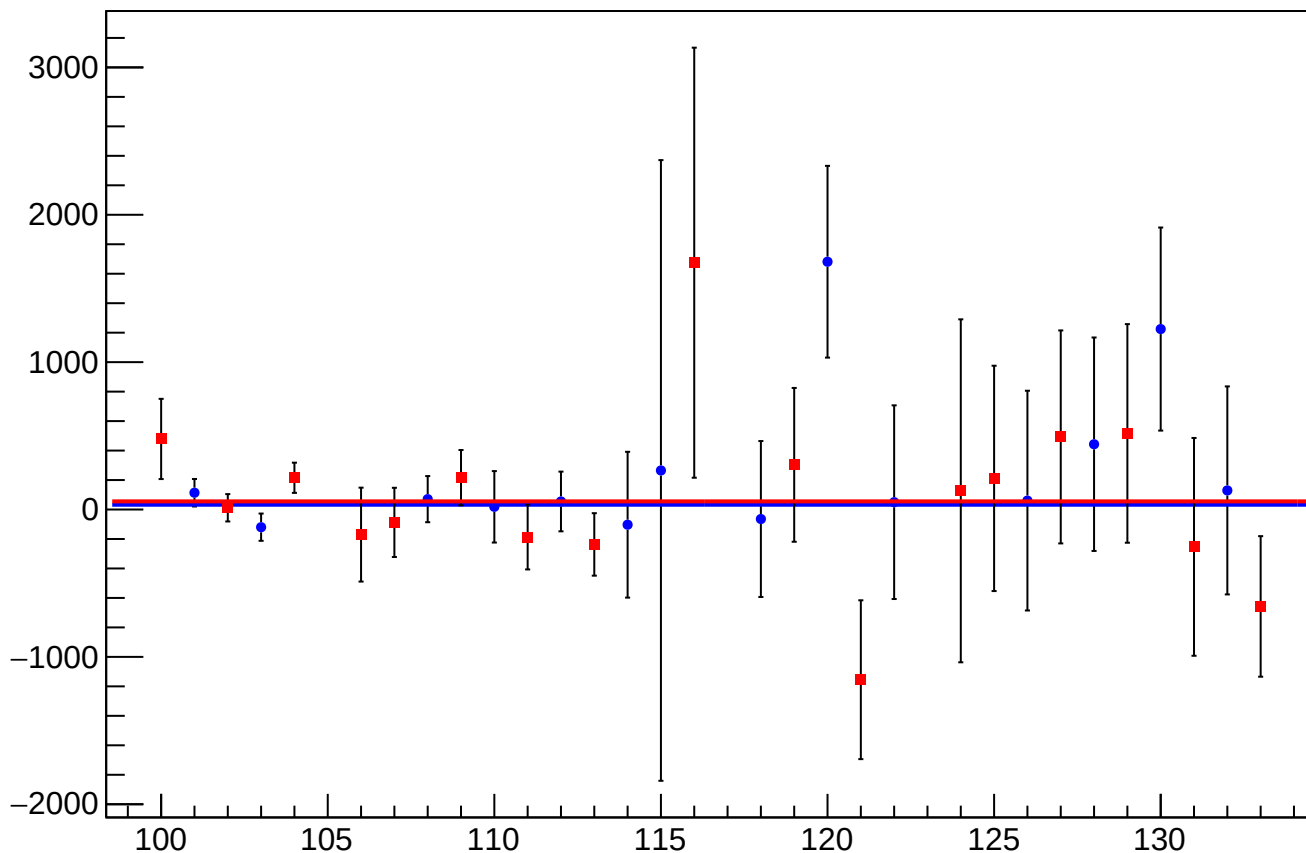
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 59.000+/-0.012  $\chi^2/\text{NDF}$ : 610517.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 32.539+/-54.679  $\chi^2/\text{NDF}$ : 13.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.294+/-53.892  $\chi^2/\text{NDF}$ : 19.5/16

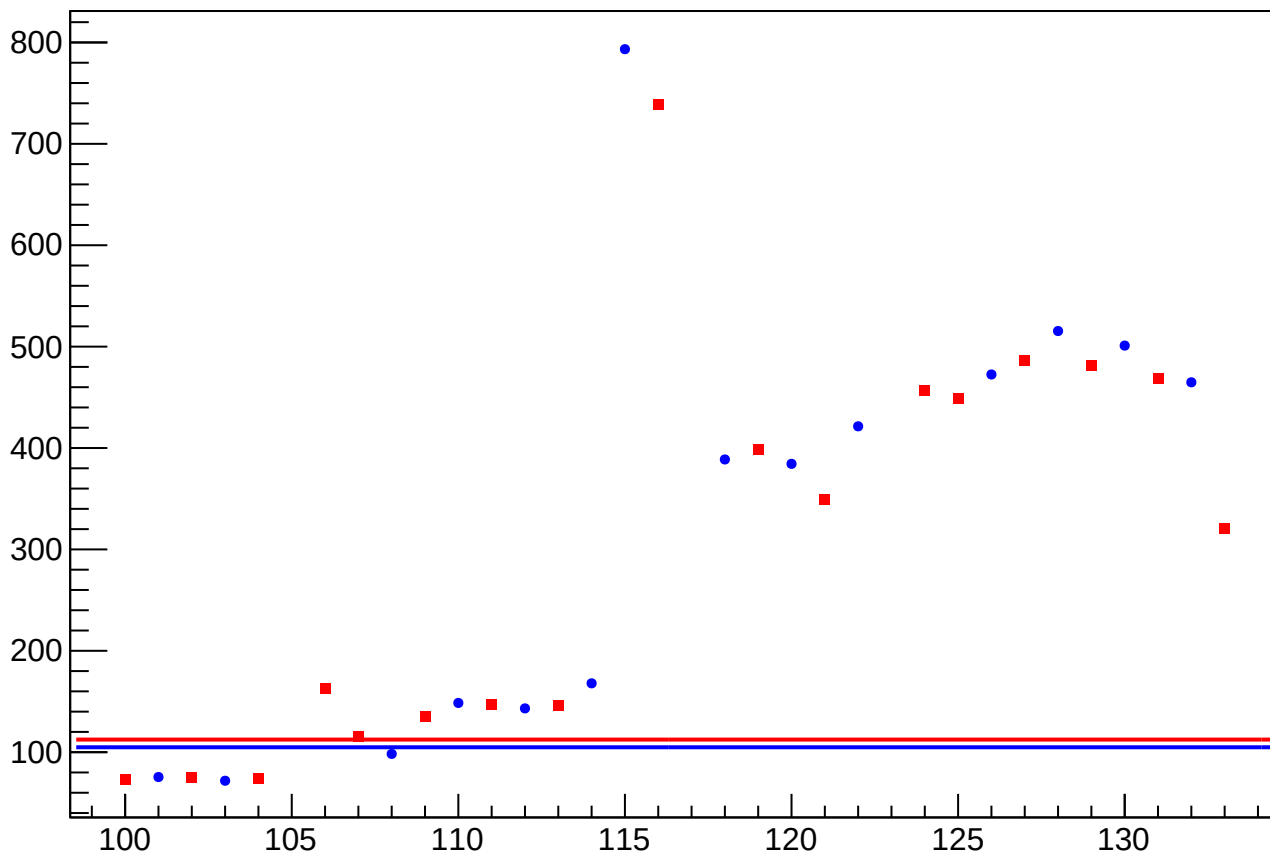
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 44.081+/-38.383  $\chi^2/\text{NDF}$ : 33.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 104.855+/-0.039  $\chi^2/\text{NDF}$ : 4559034.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 112.441+/-0.038  $\chi^2/\text{NDF}$ : 4635859.4/16

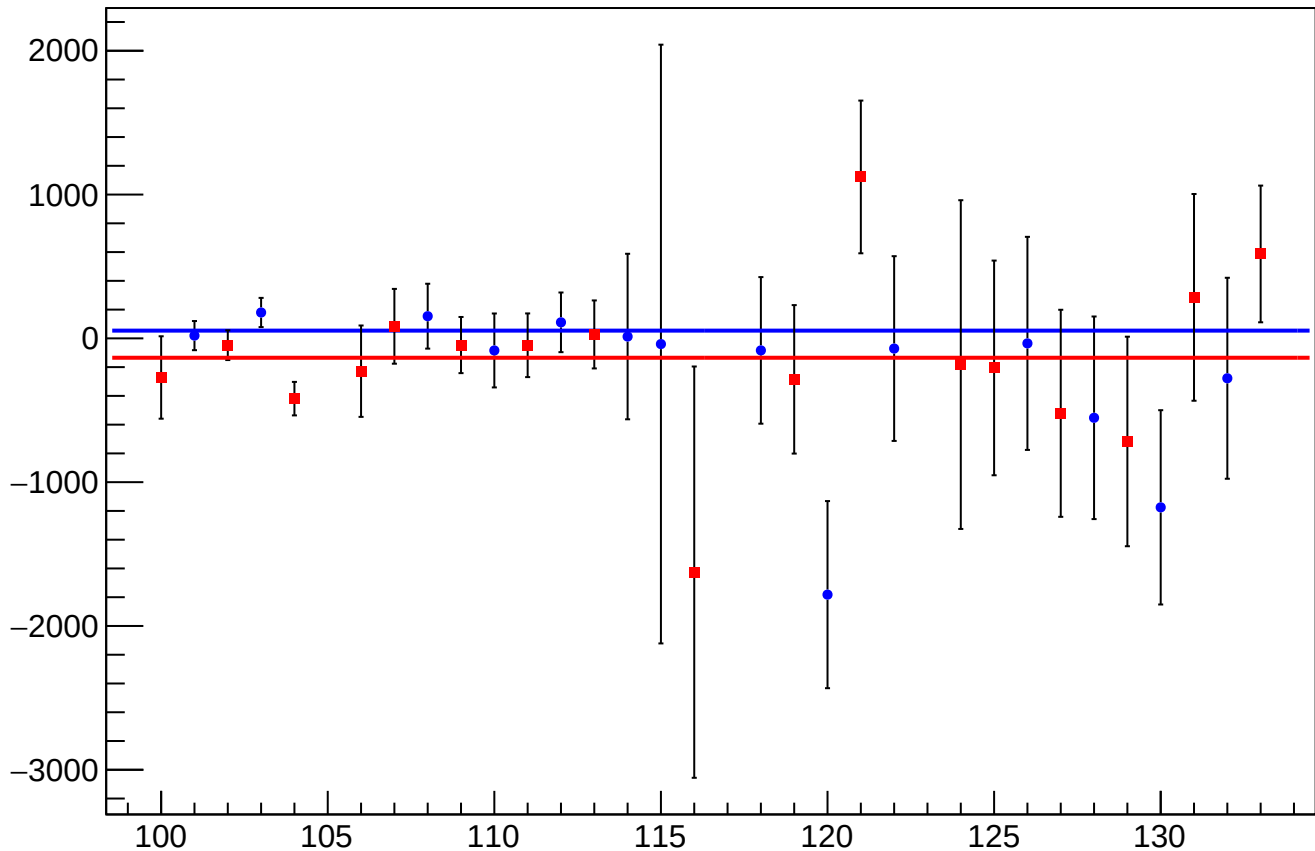
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 108.703+/-0.027  $\chi^2/\text{NDF}$ : 9214418.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_mean vs Slug



Right In: 53.848+/-60.605  $\chi^2/\text{NDF}$ : 14.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -134.801+/-58.823  $\chi^2/\text{NDF}$ : 18.9/16

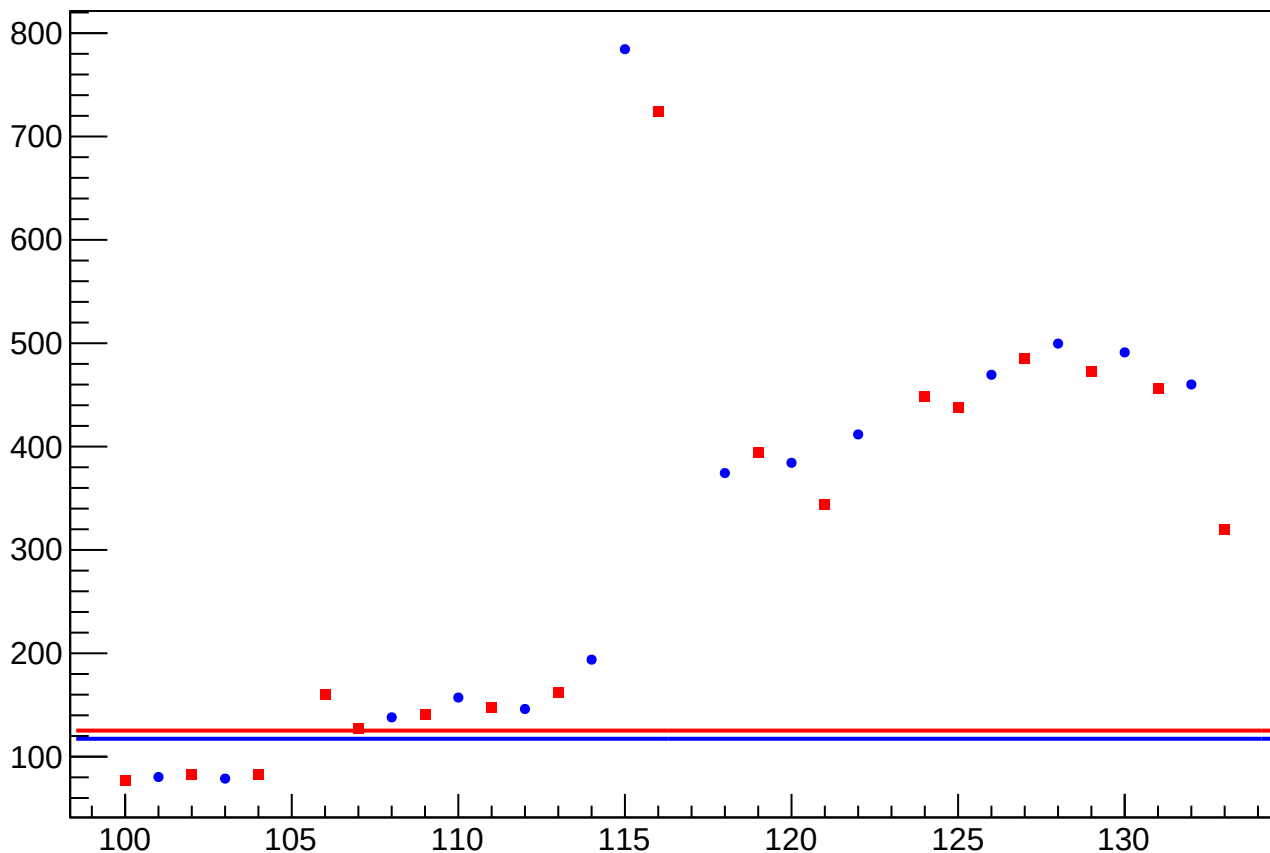
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -43.292+/-42.210  $\chi^2/\text{NDF}$ : 38.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_rms vs Slug



Right In: 117.308+/-0.043  $\chi^2/\text{NDF}$ : 4299041.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 125.235+/-0.042  $\chi^2/\text{NDF}$ : 4219142.1/16

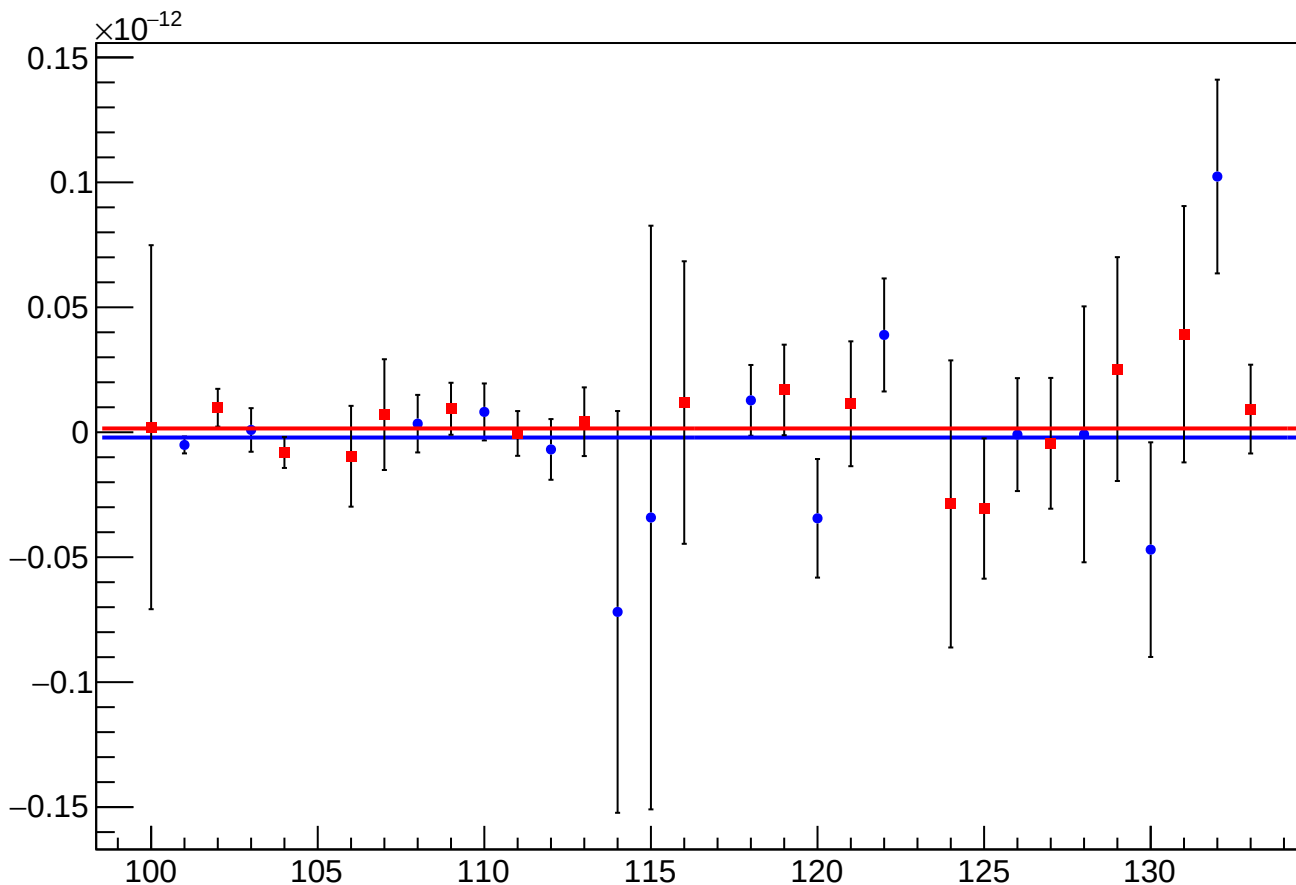
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 121.390+/-0.030  $\chi^2/\text{NDF}$ : 8535805.2/30

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 17.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.2/16

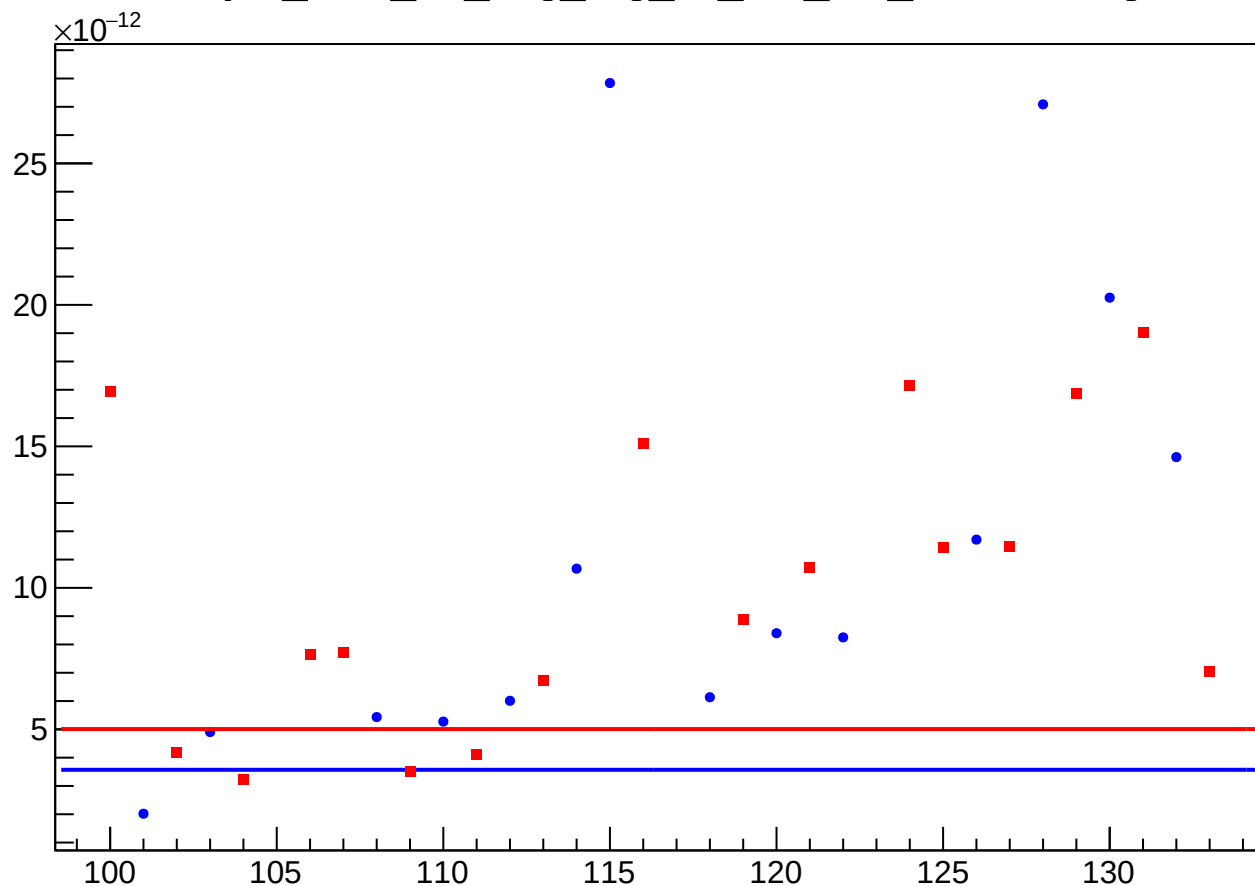
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 26.4/30

- sign 0.000 $\pm$ 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  $\chi^2/\text{NDF}$ : 2127737.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1293073.5/16

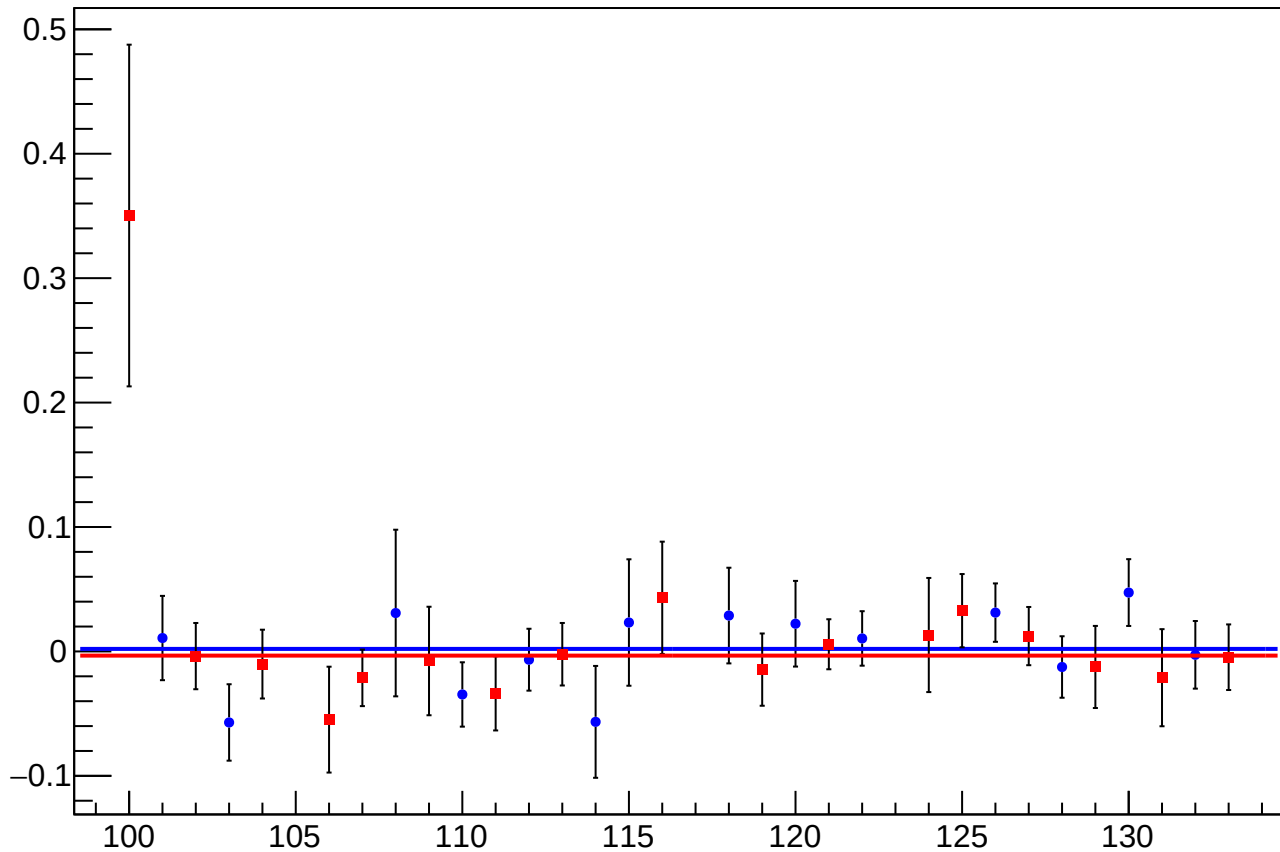
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3640515.0/30

- 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: 0.002 $\pm$ 0.008  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.003 $\pm$ 0.007  $\chi^2$ /NDF: 13.6/16

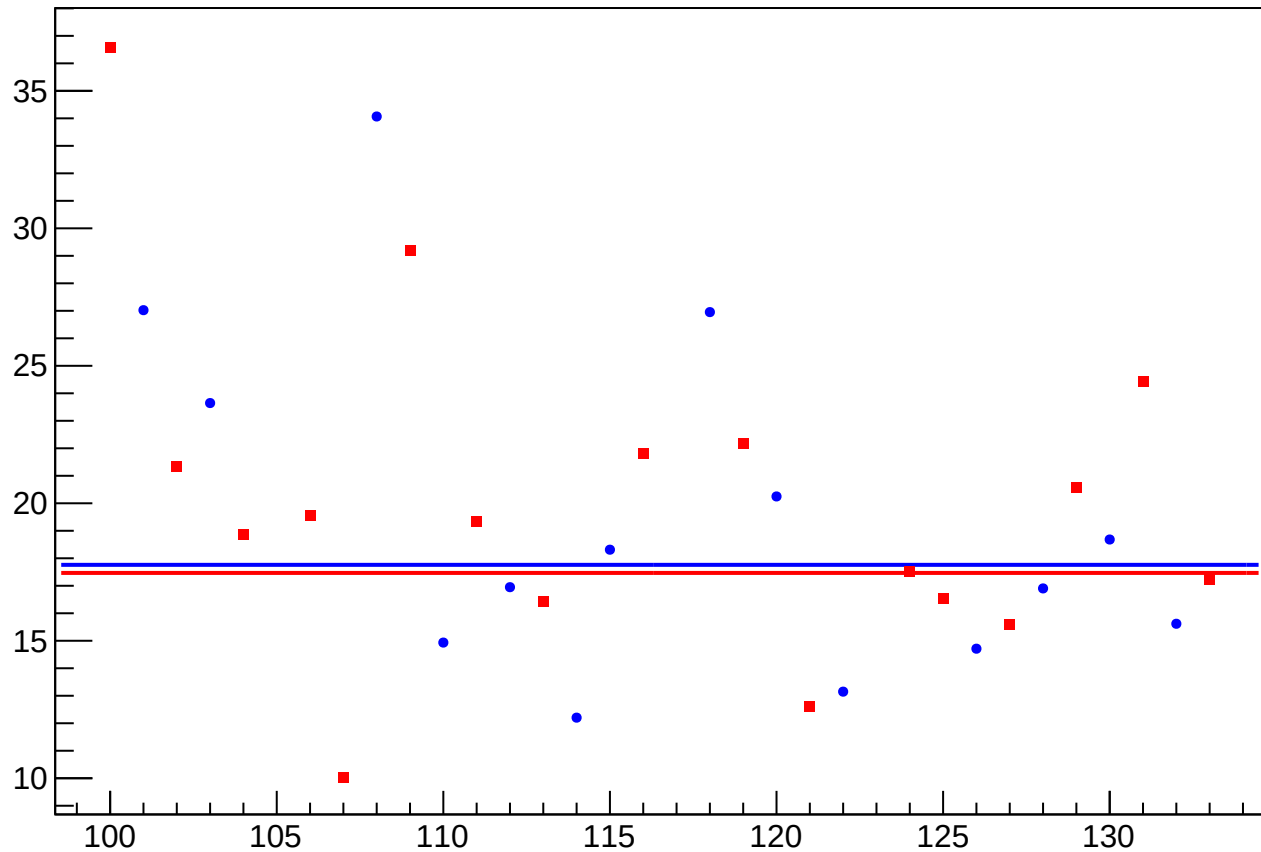
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.001 $\pm$ 0.005  $\chi^2$ /NDF: 27.6/30

- 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: 17.761 $\pm$ 0.006  $\chi^2$ /NDF: 662840.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.467 $\pm$ 0.005  $\chi^2$ /NDF: 745153.2/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

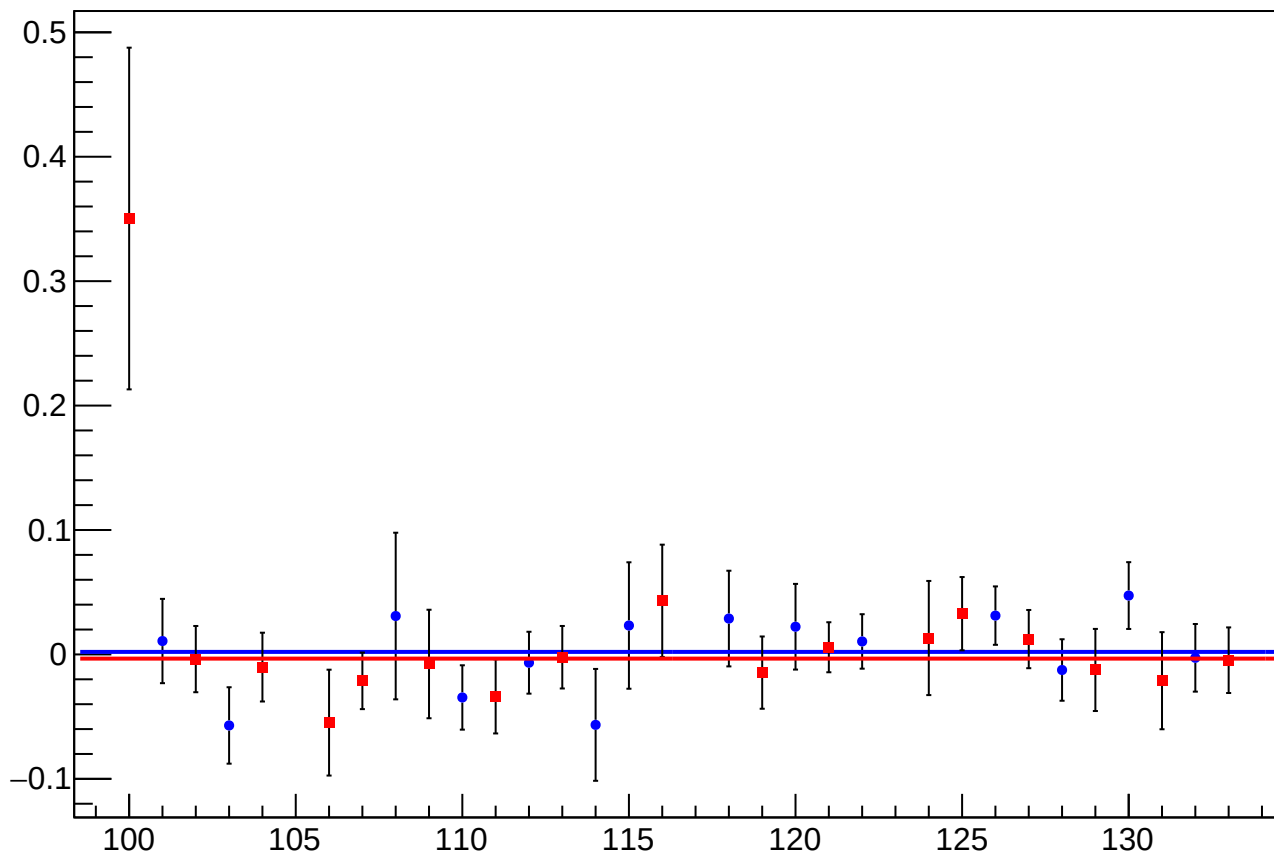
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.601 $\pm$ 0.004  $\chi^2$ /NDF: 1409497.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.002 $\pm$ 0.008  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.003 $\pm$ 0.007  $\chi^2$ /NDF: 13.6/16

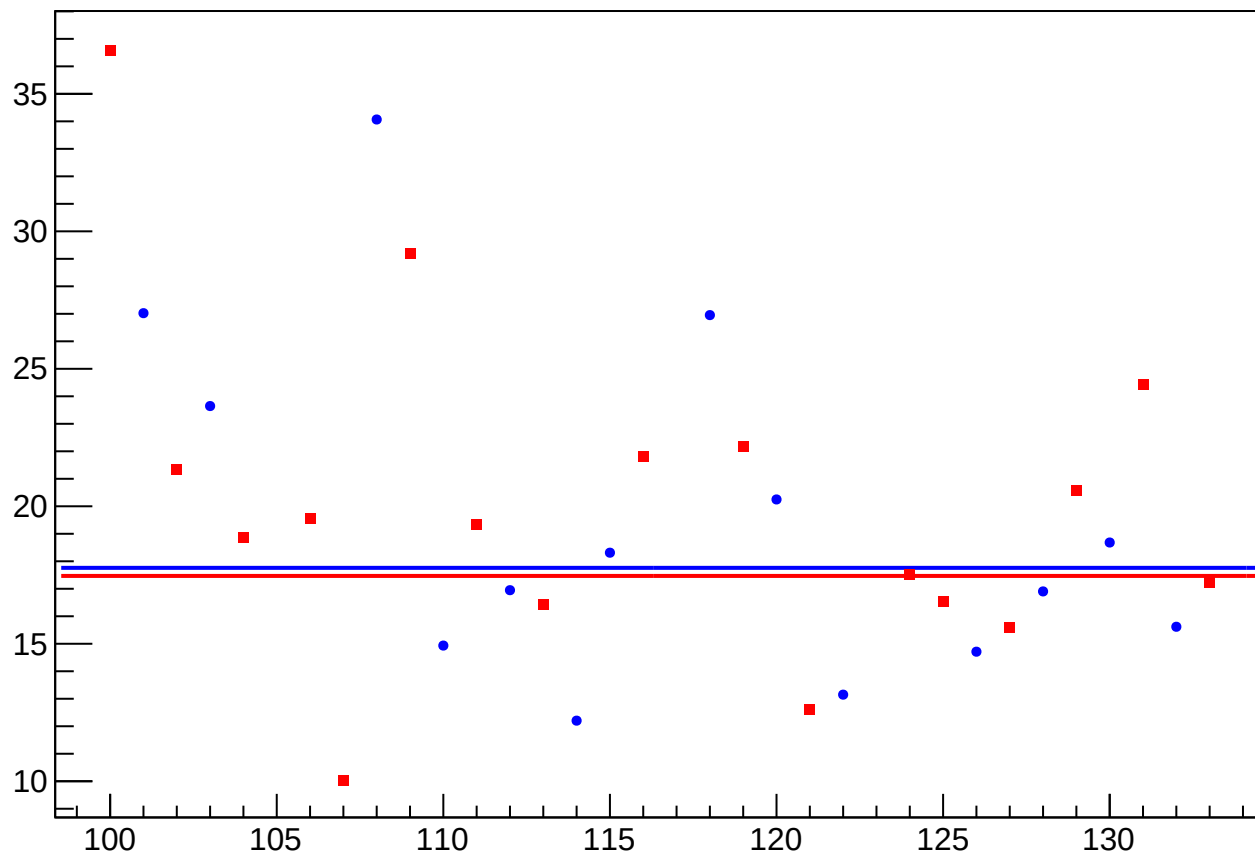
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.001 $\pm$ 0.005  $\chi^2$ /NDF: 27.6/30

- 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: 17.761 $\pm$ 0.006  $\chi^2$ /NDF: 662840.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.467 $\pm$ 0.005  $\chi^2$ /NDF: 745153.2/16

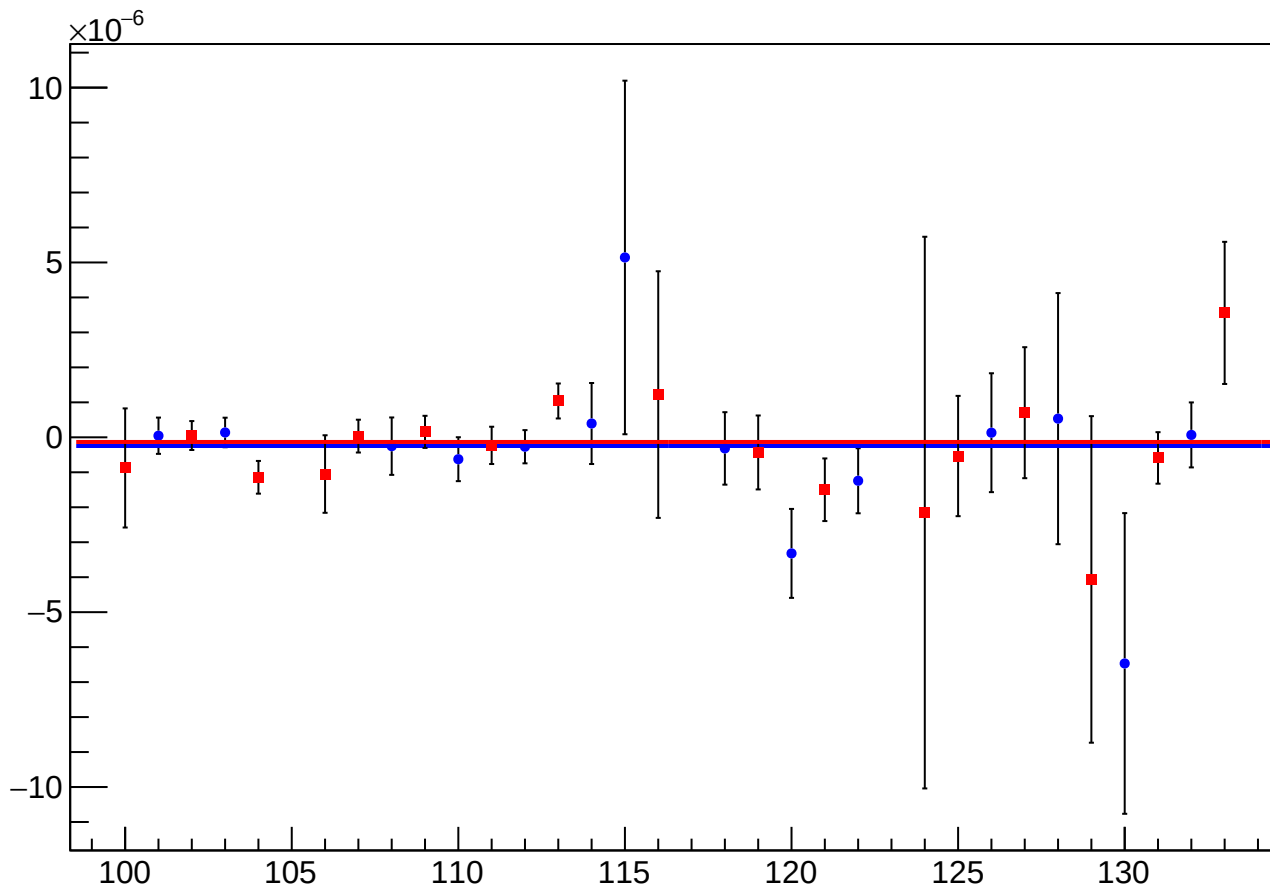
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.601 $\pm$ 0.004  $\chi^2$ /NDF: 1409497.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.1/16

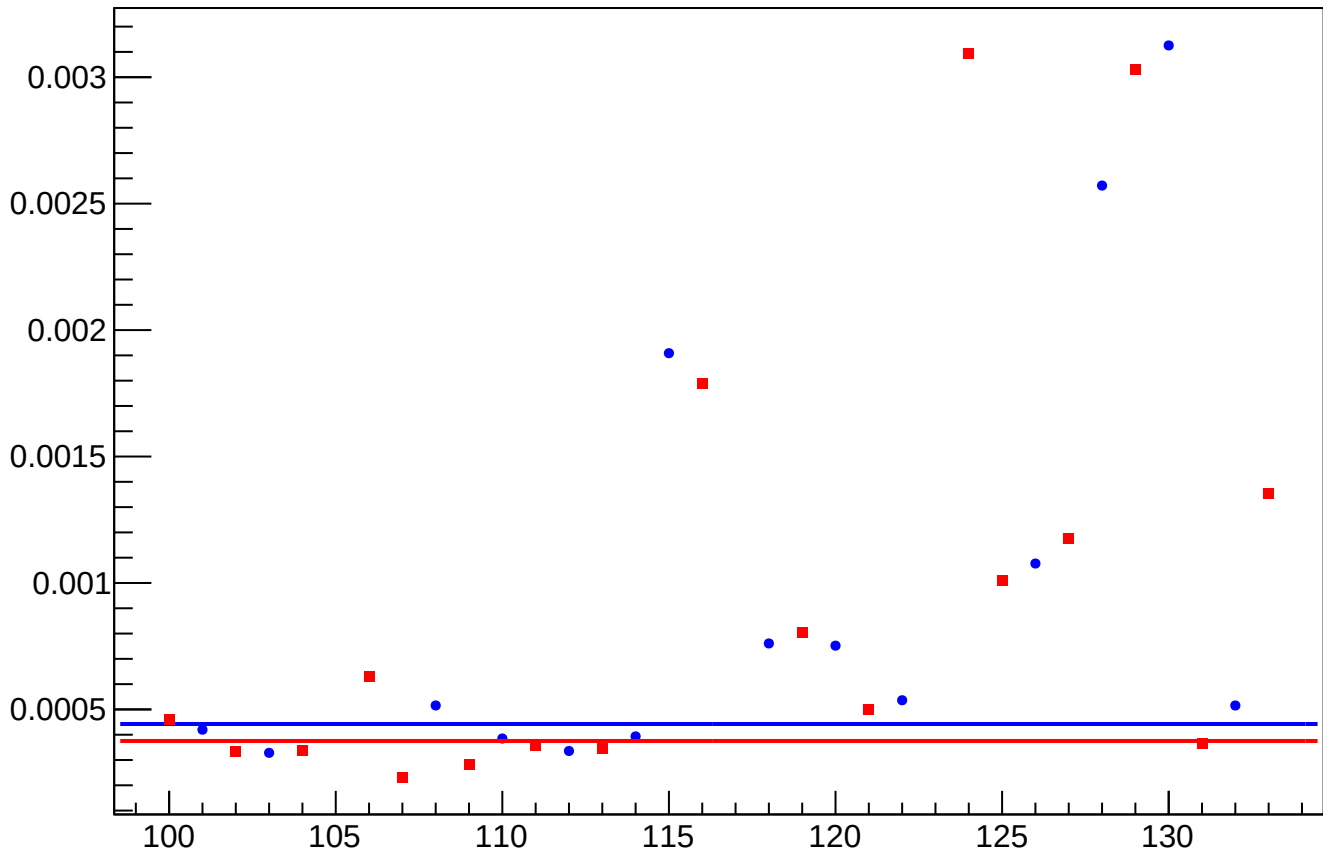
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 31.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2556180.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3106179.9/16

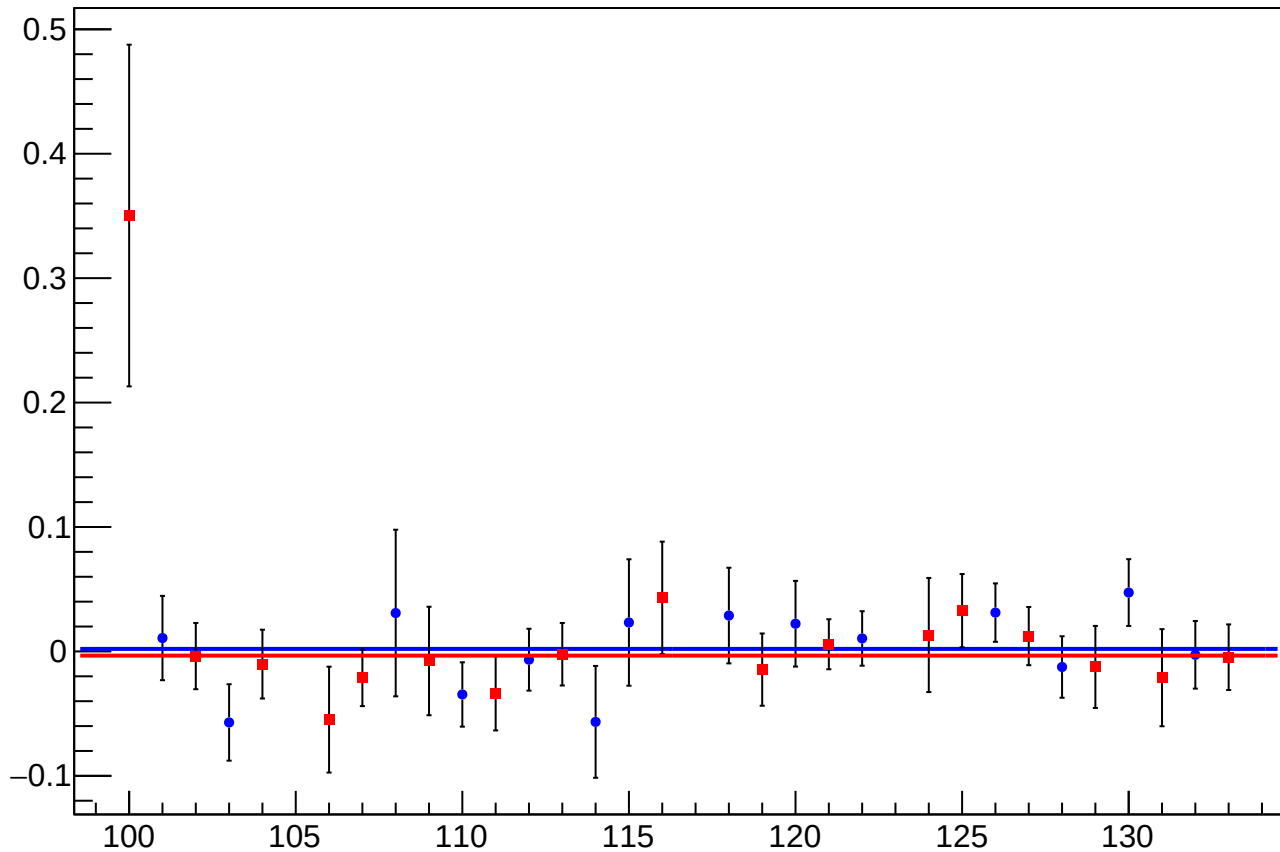
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5784801.2/30

- 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: 0.002 $\pm$ 0.008  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.003 $\pm$ 0.007  $\chi^2$ /NDF: 13.6/16

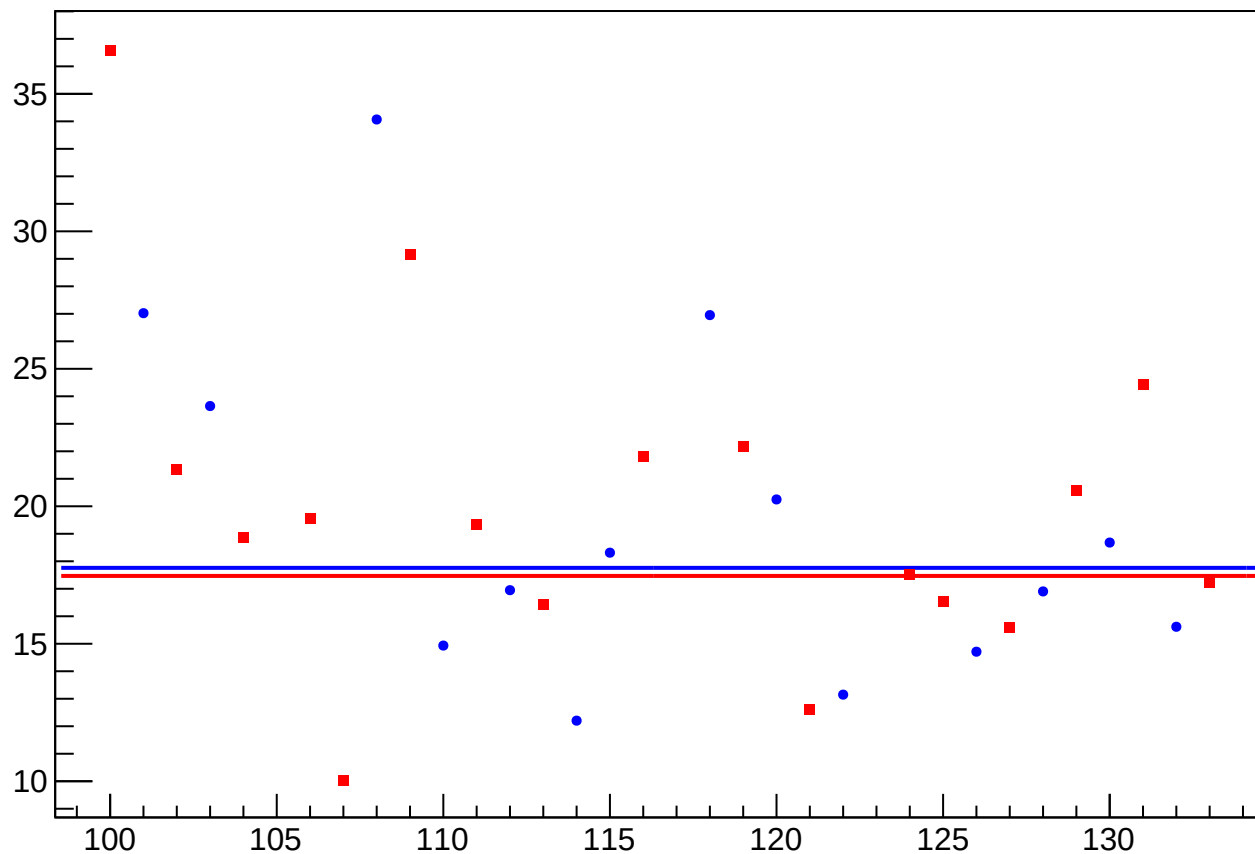
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.001 $\pm$ 0.005  $\chi^2$ /NDF: 27.6/30

- 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:  $17.761 \pm 0.006$   $\chi^2/\text{NDF}: 662836.0/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $17.467 \pm 0.005$   $\chi^2/\text{NDF}: 745151.7/16$

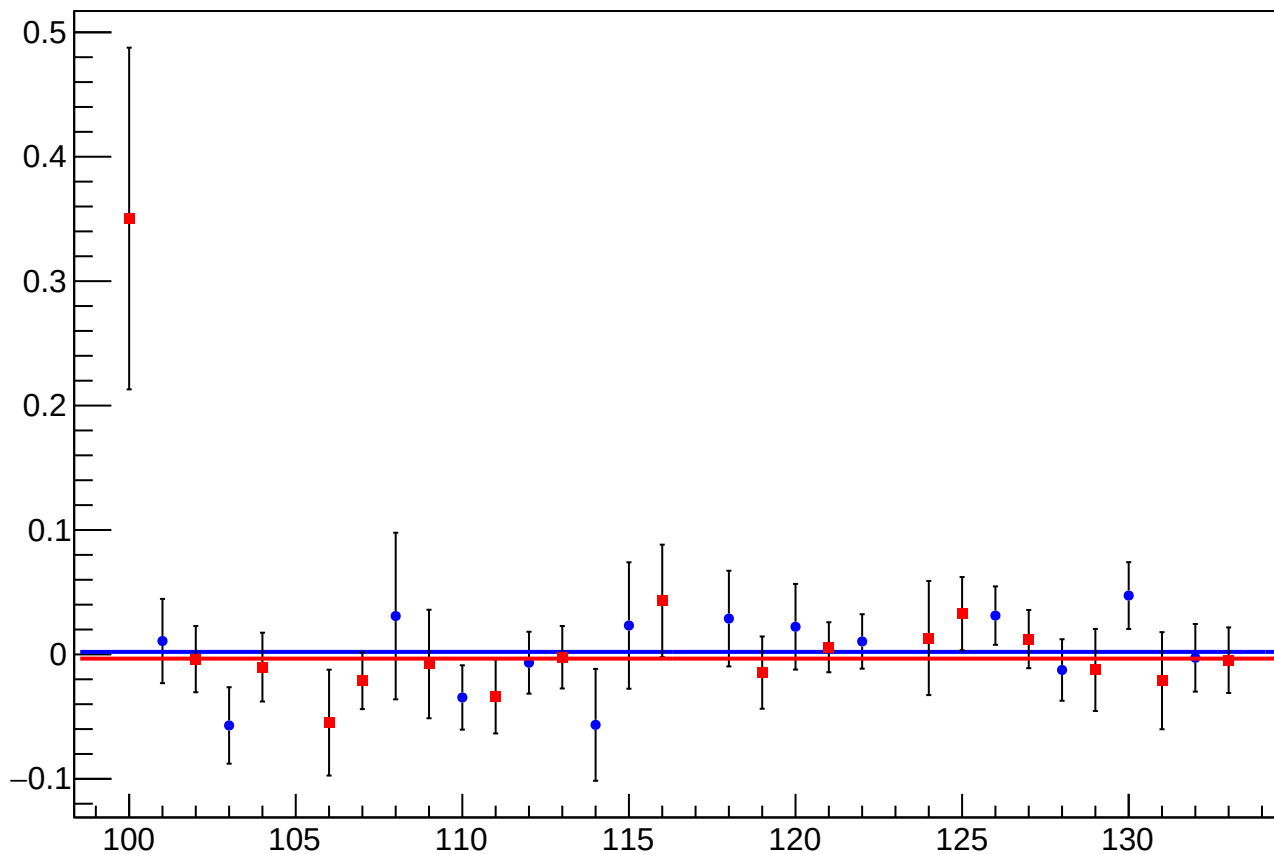
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $17.601 \pm 0.004$   $\chi^2/\text{NDF}: 1409491.2/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_sam\_15\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.002 $\pm$ 0.008  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.003 $\pm$ 0.007  $\chi^2$ /NDF: 13.6/16

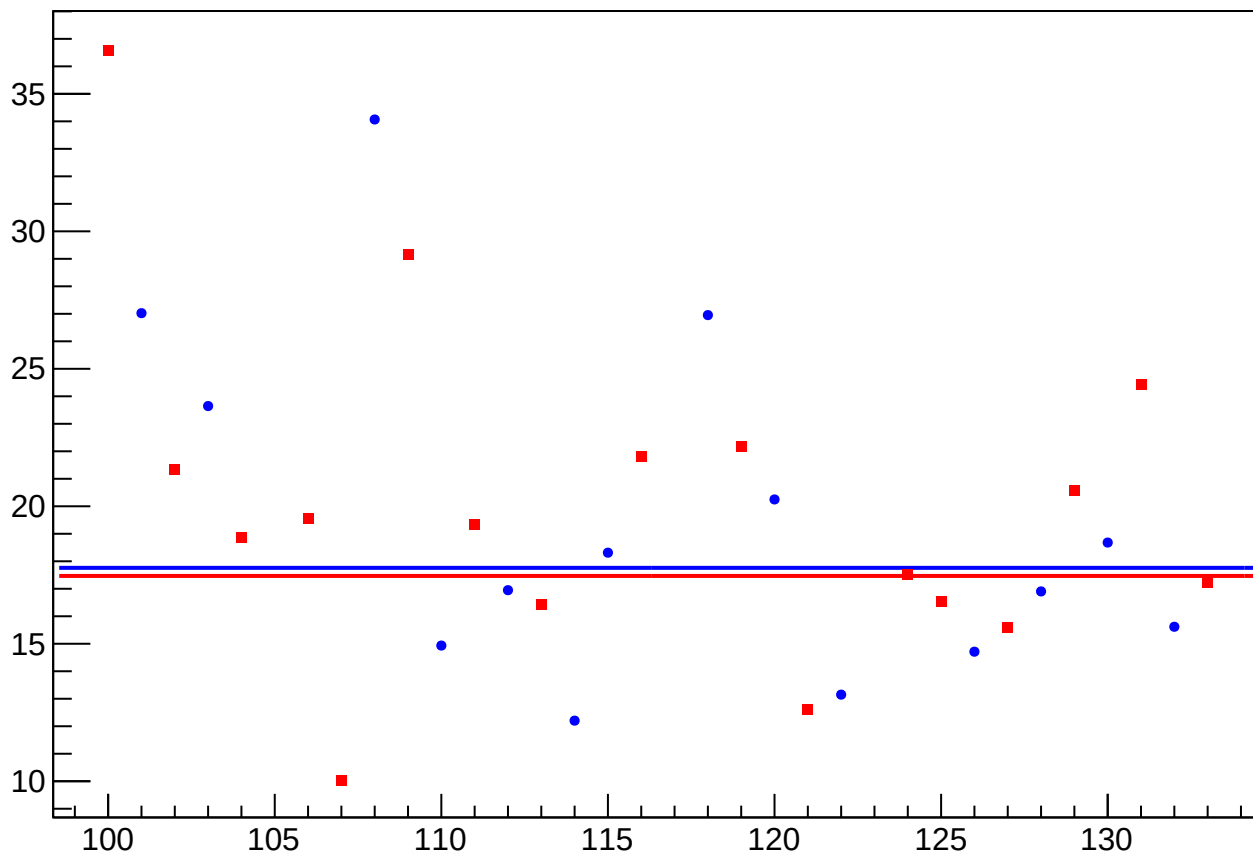
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.001 $\pm$ 0.005  $\chi^2$ /NDF: 27.6/30

- 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: 17.761 $\pm$ 0.006  $\chi^2$ /NDF: 662836.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.467 $\pm$ 0.005  $\chi^2$ /NDF: 745151.7/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

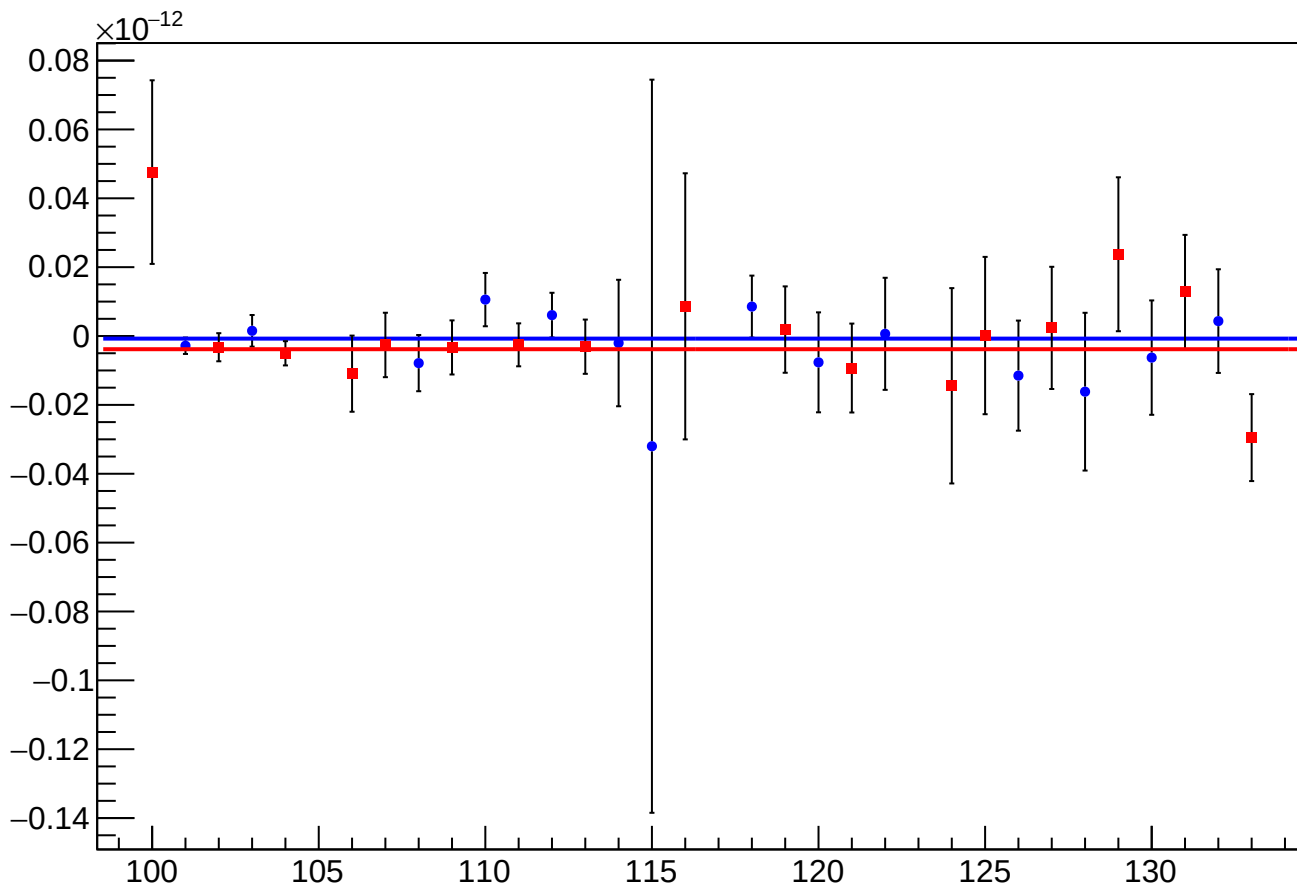
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.601 $\pm$ 0.004  $\chi^2$ /NDF: 1409491.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 7.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.8/16

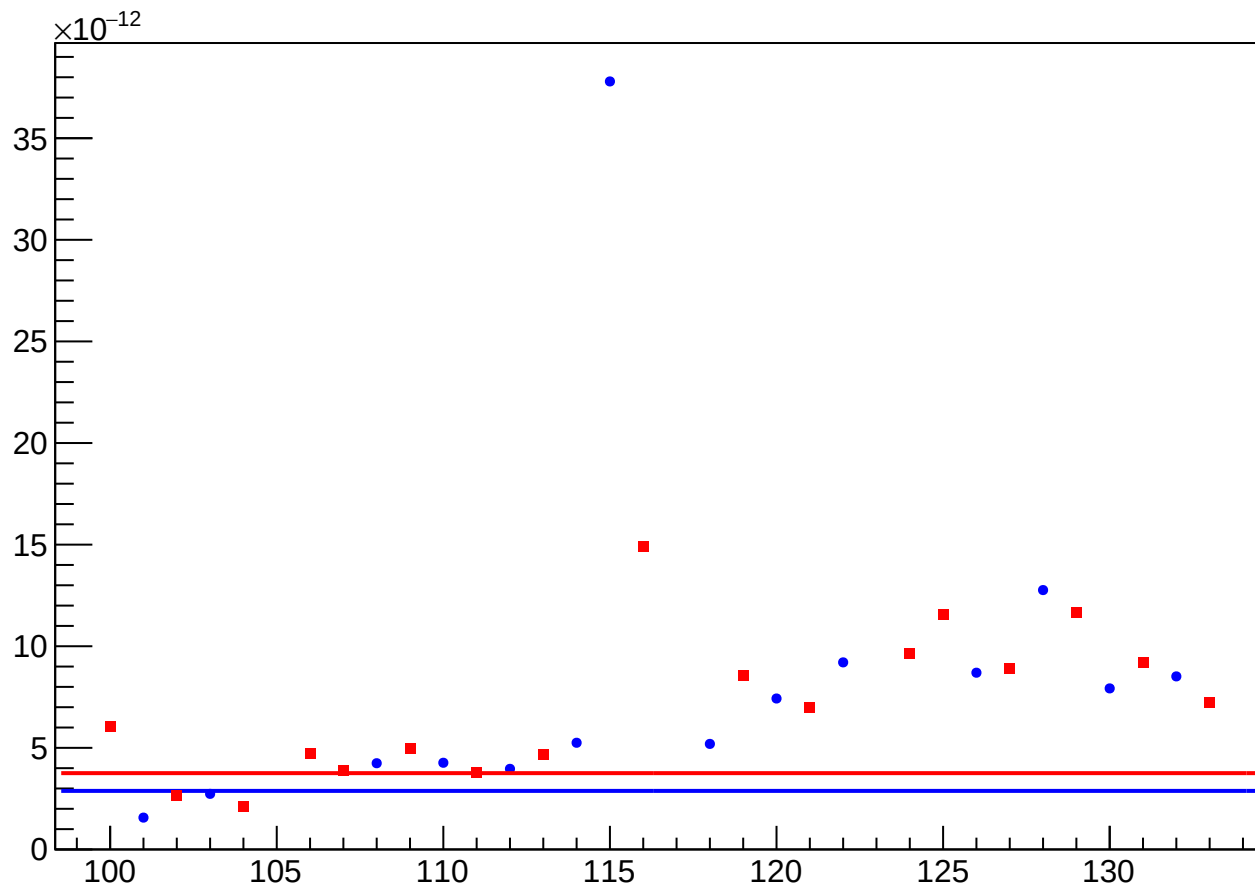
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 20.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2765873.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2381265.7/16

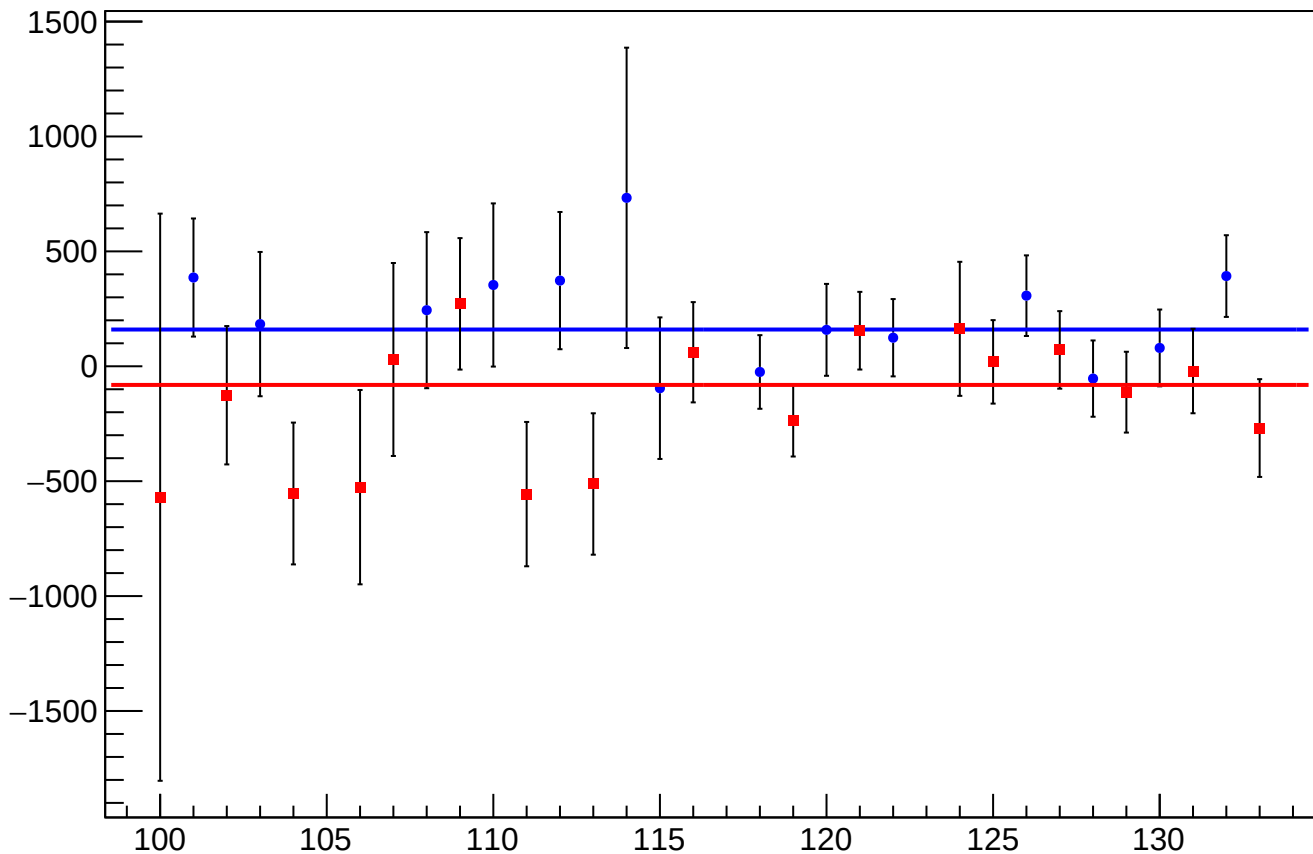
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5360763.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 159.944 $\pm$ 57.586  $\chi^2$ /NDF: 8.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -81.145 $\pm$ 55.477  $\chi^2$ /NDF: 15.6/16

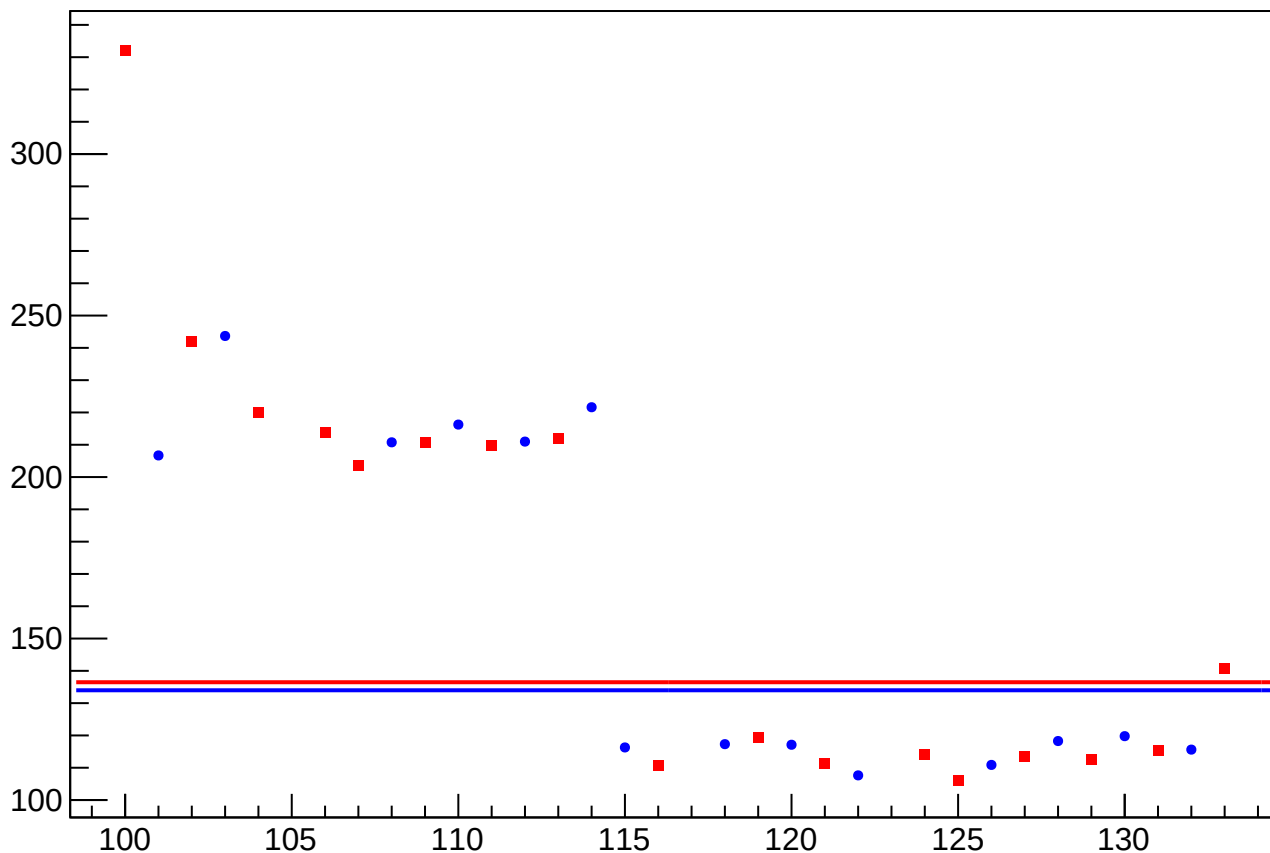
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 34.903 $\pm$ 39.953  $\chi^2$ /NDF: 33.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 133.983 $\pm$ 0.041  $\chi^2$ /NDF: 962805.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 136.475 $\pm$ 0.039  $\chi^2$ /NDF: 1188315.4/16

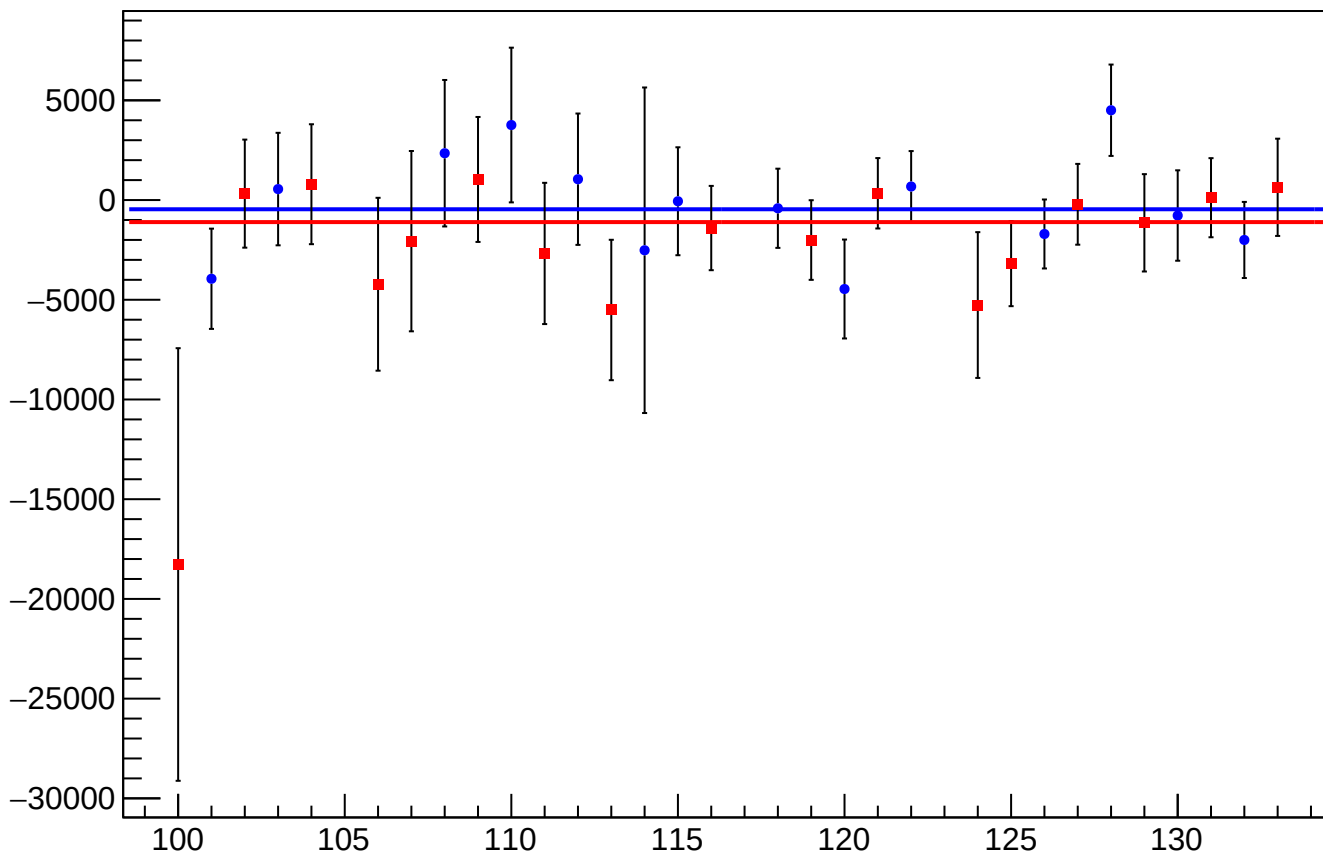
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 135.276 $\pm$ 0.028  $\chi^2$ /NDF: 2153063.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_avg\_reg\_correction\_mean vs Slug



Right In:  $-462.165 \pm 646.067$   $\chi^2/\text{NDF}$ : 13.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1105.345 \pm 626.945$   $\chi^2/\text{NDF}$ : 10.2/16

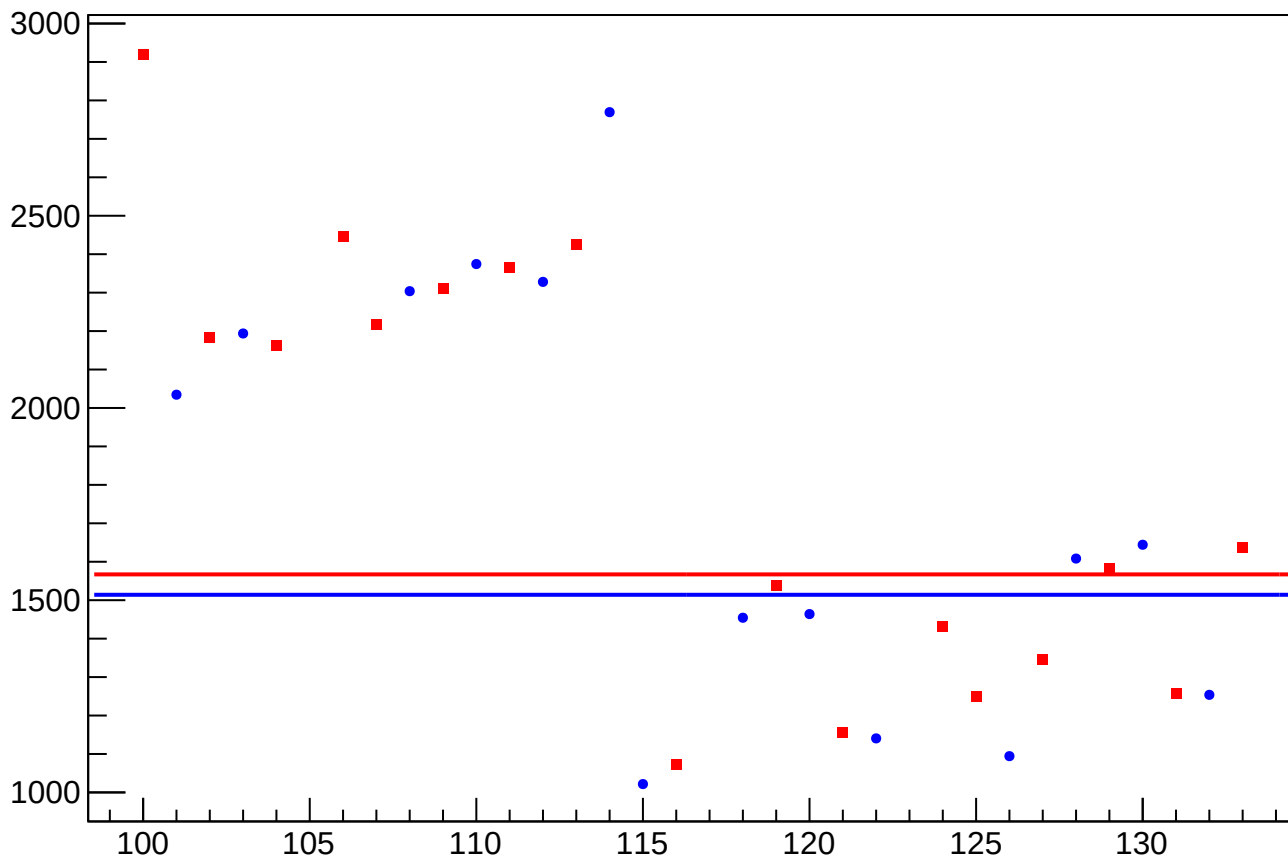
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-793.414 \pm 449.926$   $\chi^2/\text{NDF}$ : 23.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_reg\_correction\_rms vs Slug



Right In: 1514.081 $\pm$ 0.457  $\chi^2$ /NDF: 884520.6/13

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

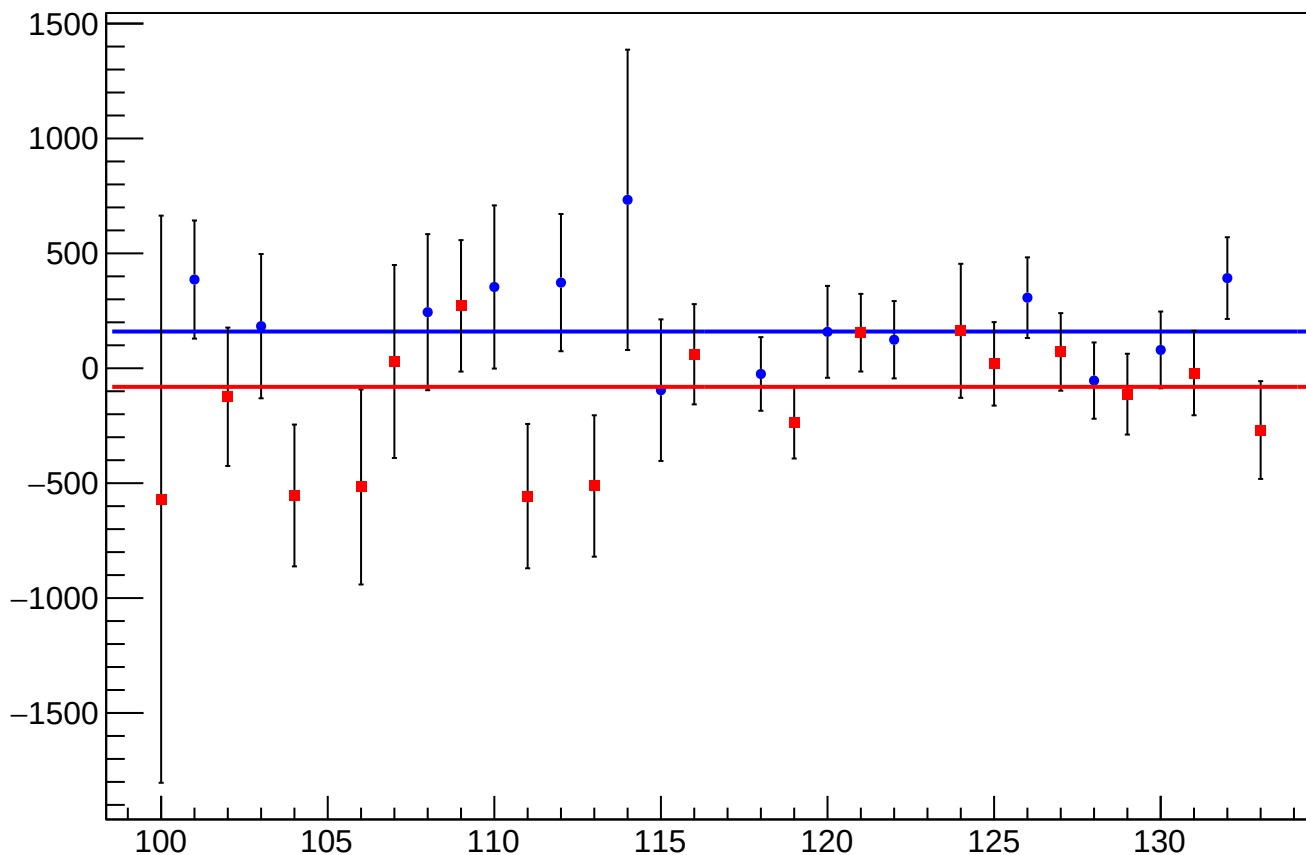
Right Out: 1567.123 $\pm$ 0.443  $\chi^2$ /NDF: 1010432.0/16

All: 1541.398 $\pm$ 0.318  $\chi^2$ /NDF: 1901895.3/30

- 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\_sam\_26\_avg\_mean vs Slug



Right In: 159.927 $\pm$ 57.586  $\chi^2$ /NDF: 8.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -80.857 $\pm$ 55.481  $\chi^2$ /NDF: 15.5/16

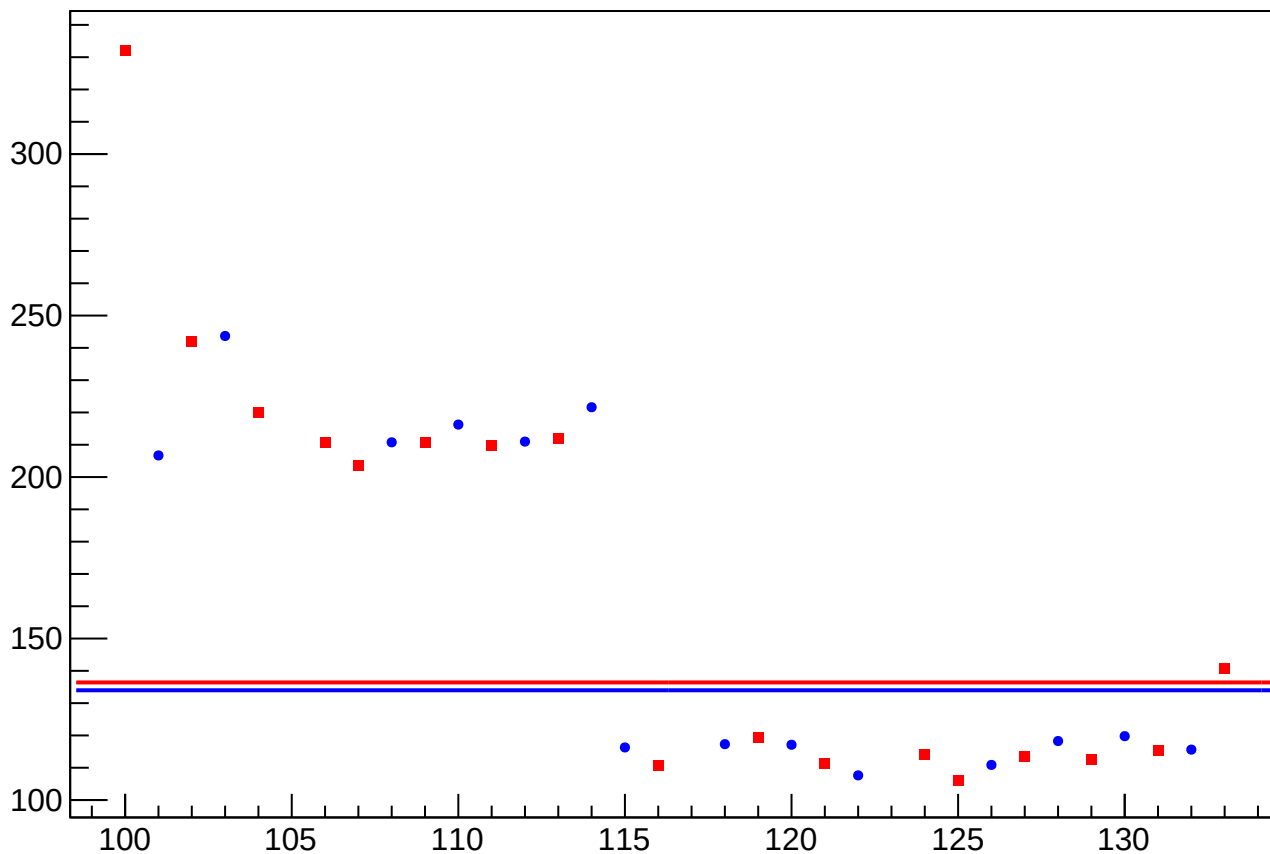
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 35.054 $\pm$ 39.955  $\chi^2$ /NDF: 33.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 133.983+/-0.041  $\chi^2/\text{NDF}$ : 962807.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 136.414+/-0.039  $\chi^2/\text{NDF}$ : 1182975.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

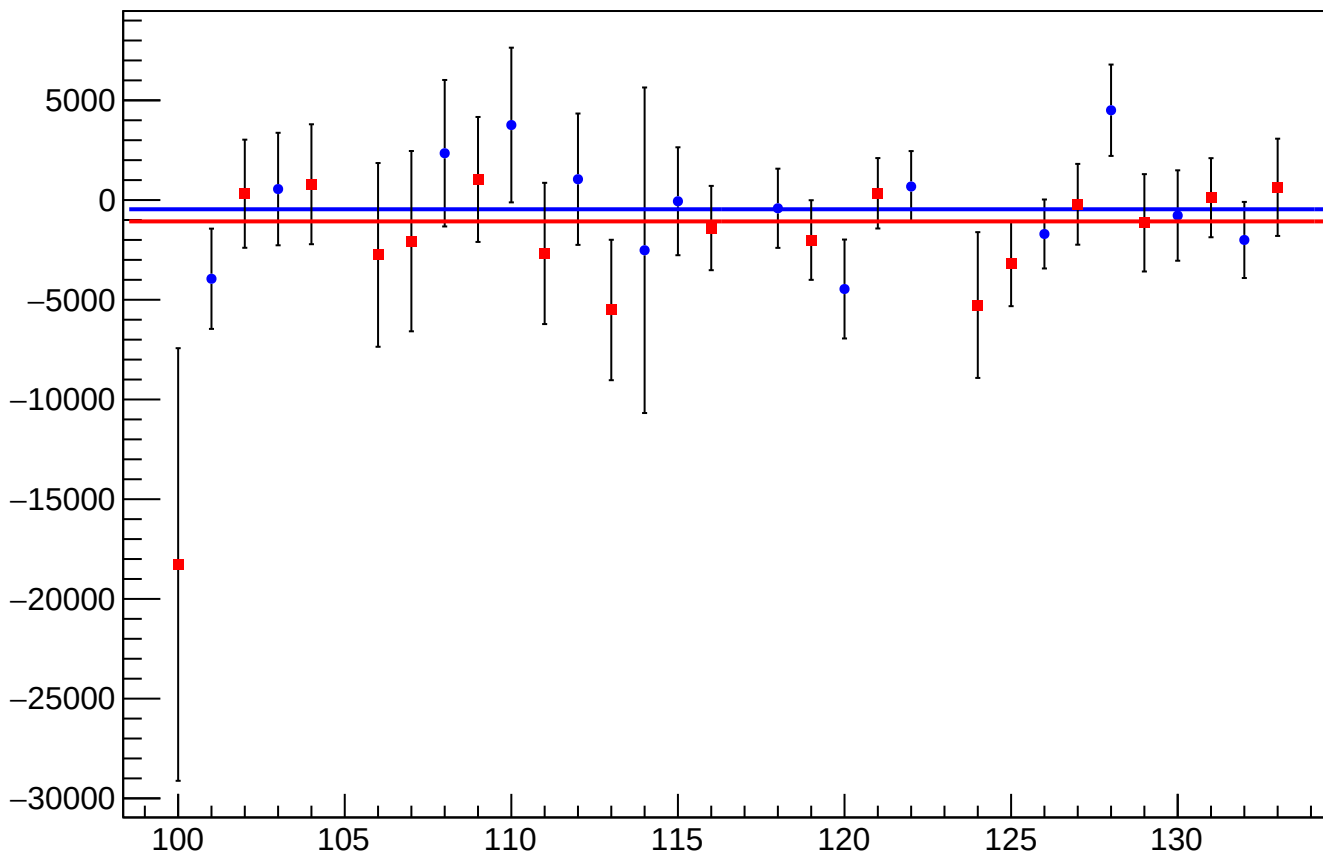
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 135.244+/-0.028  $\chi^2/\text{NDF}$ : 2147631.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_26\_avg\_cor\_correction\_mean vs Slug



Right In: -462.115 $\pm$ 646.069  $\chi^2$ /NDF: 13.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1070.911 $\pm$ 627.722  $\chi^2$ /NDF: 9.8/16

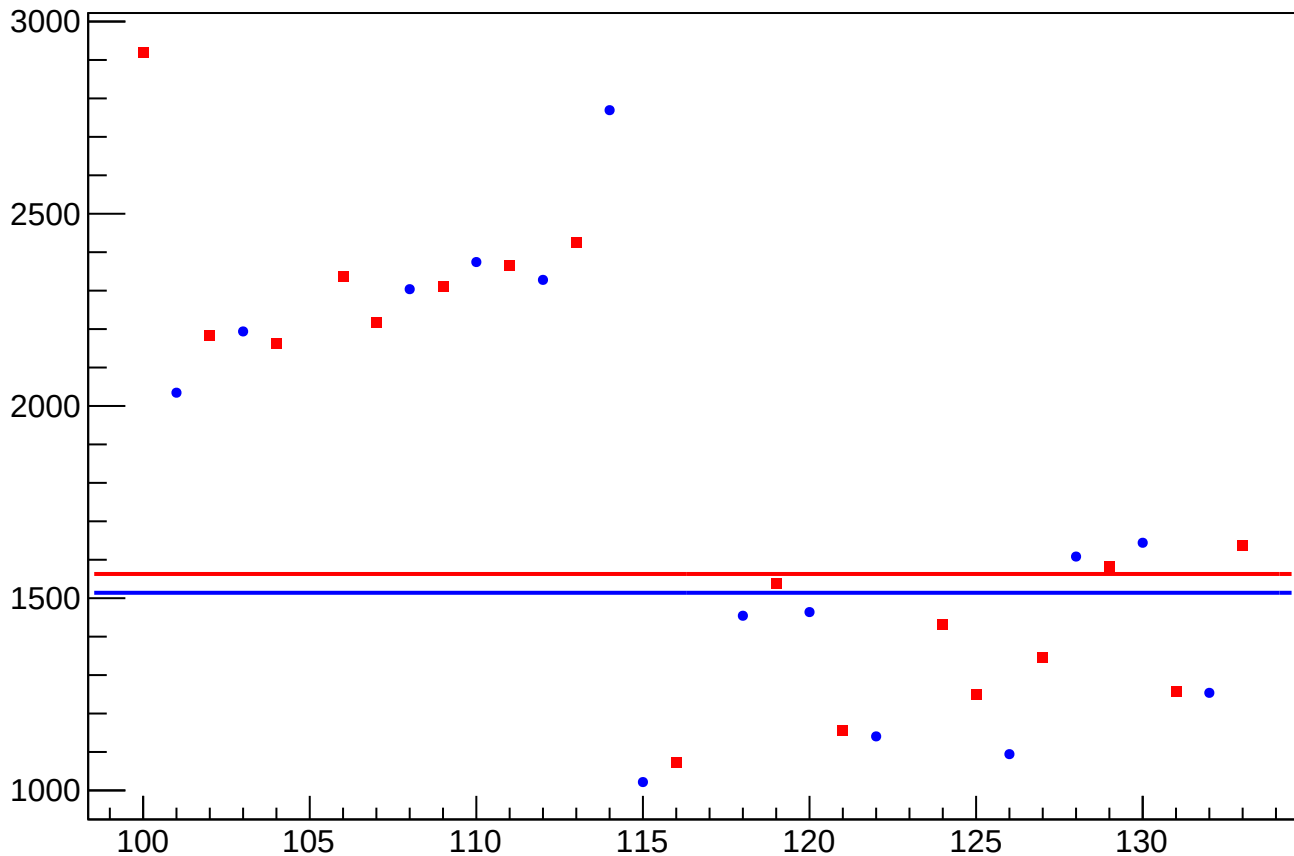
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -775.280 $\pm$ 450.213  $\chi^2$ /NDF: 23.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_avg\_cor\_correction\_rms vs Slug



Right In: 1514.082 $\pm$ 0.457  $\chi^2$ /NDF: 884550.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1563.014 $\pm$ 0.444  $\chi^2$ /NDF: 984311.1/16

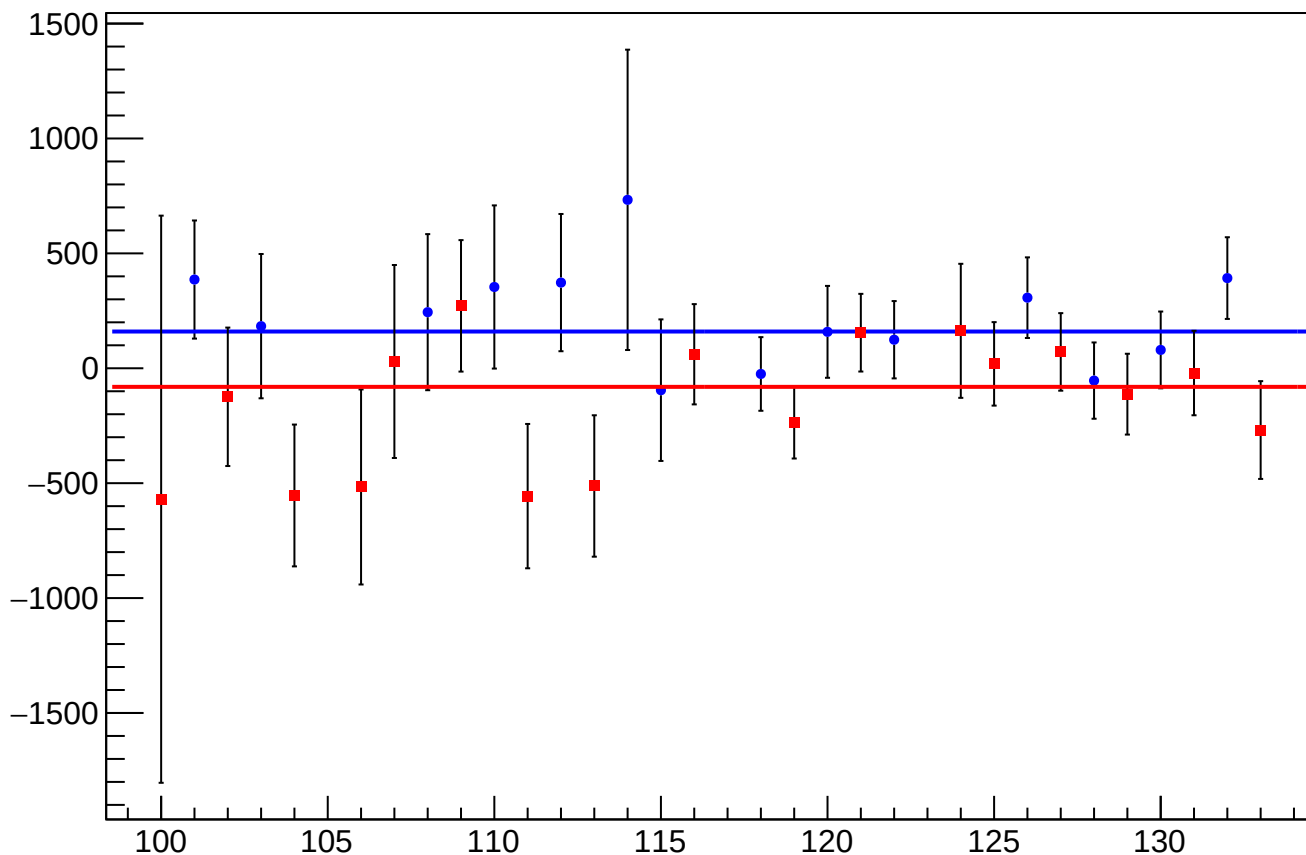
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1539.252 $\pm$ 0.318  $\chi^2$ /NDF: 1874762.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 159.927 $\pm$ 57.586  $\chi^2$ /NDF: 8.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -80.857 $\pm$ 55.481  $\chi^2$ /NDF: 15.5/16

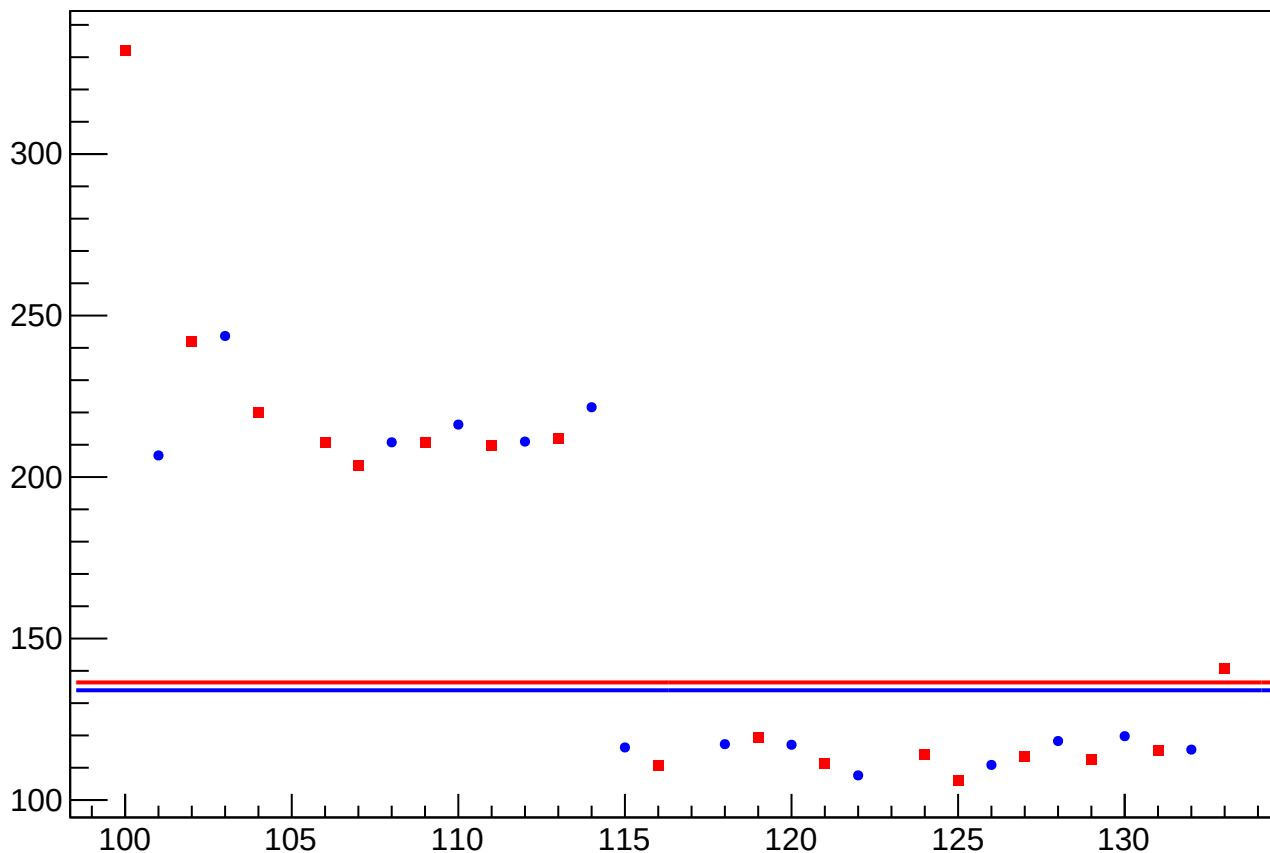
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 35.054 $\pm$ 39.955  $\chi^2$ /NDF: 33.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 133.983+/-0.041  $\chi^2/\text{NDF}$ : 962807.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 136.414+/-0.039  $\chi^2/\text{NDF}$ : 1182975.6/16

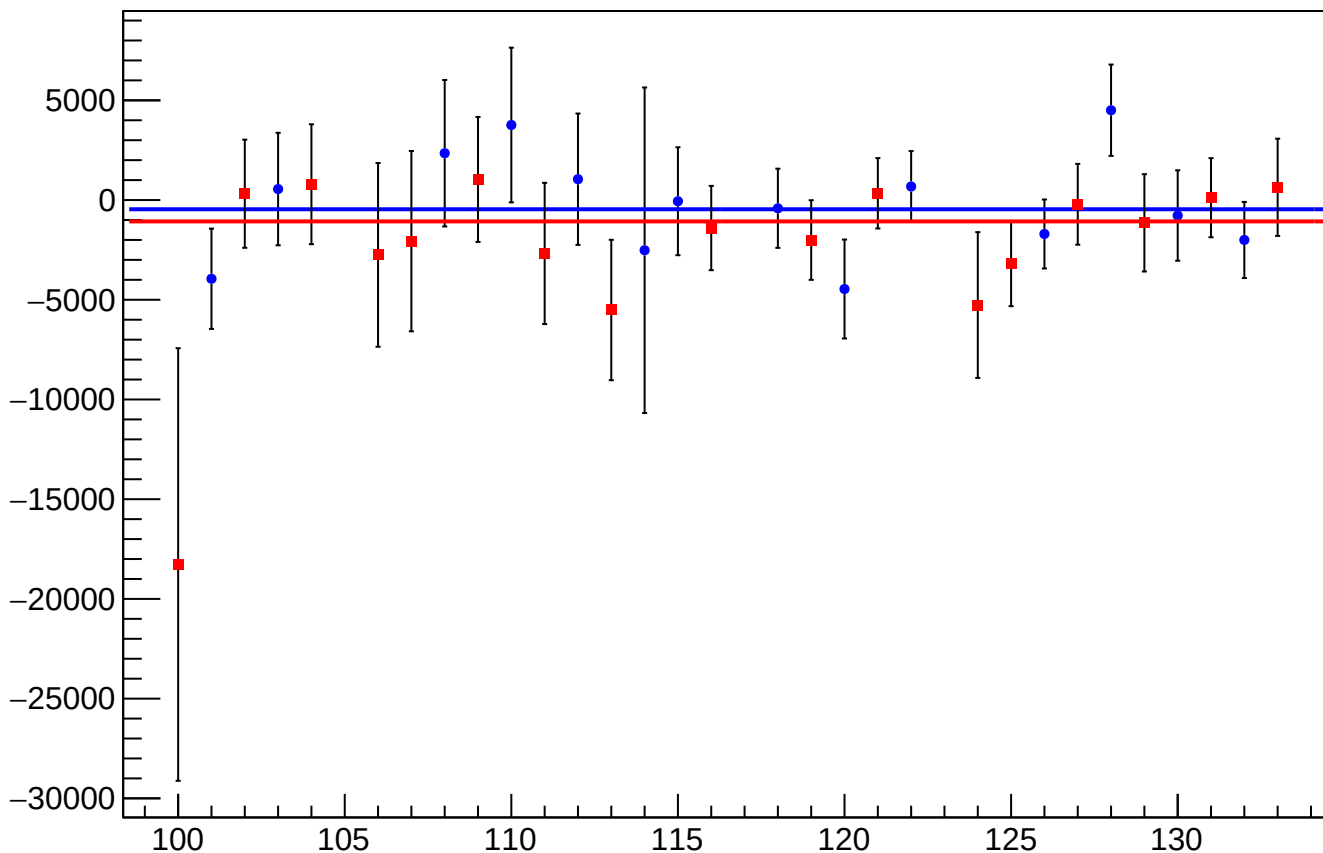
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 135.244+/-0.028  $\chi^2/\text{NDF}$ : 2147631.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -462.115 $\pm$ 646.069  $\chi^2$ /NDF: 13.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1070.911 $\pm$ 627.722  $\chi^2$ /NDF: 9.8/16

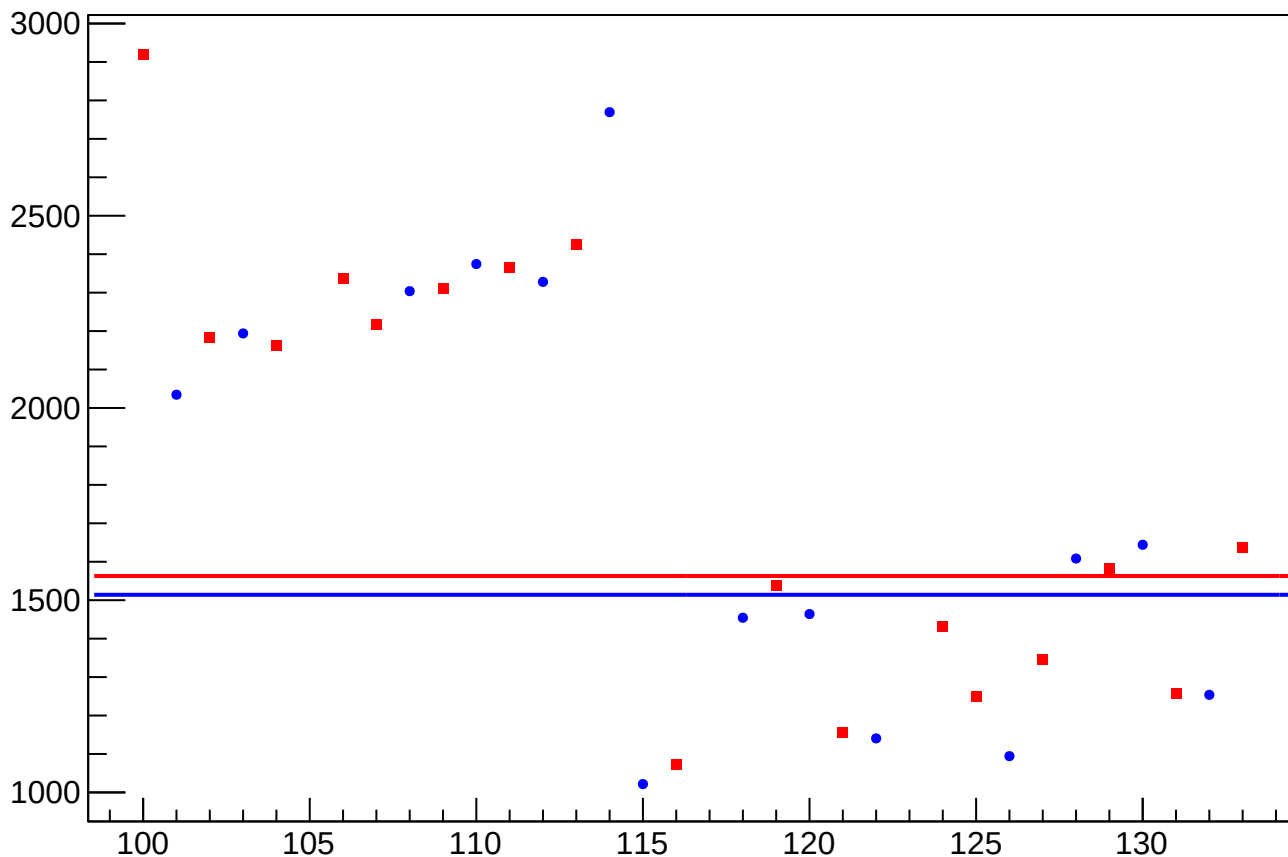
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -775.280 $\pm$ 450.213  $\chi^2$ /NDF: 23.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1514.082 $\pm$ 0.457  $\chi^2$ /NDF: 884550.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1563.014 $\pm$ 0.444  $\chi^2$ /NDF: 984311.1/16

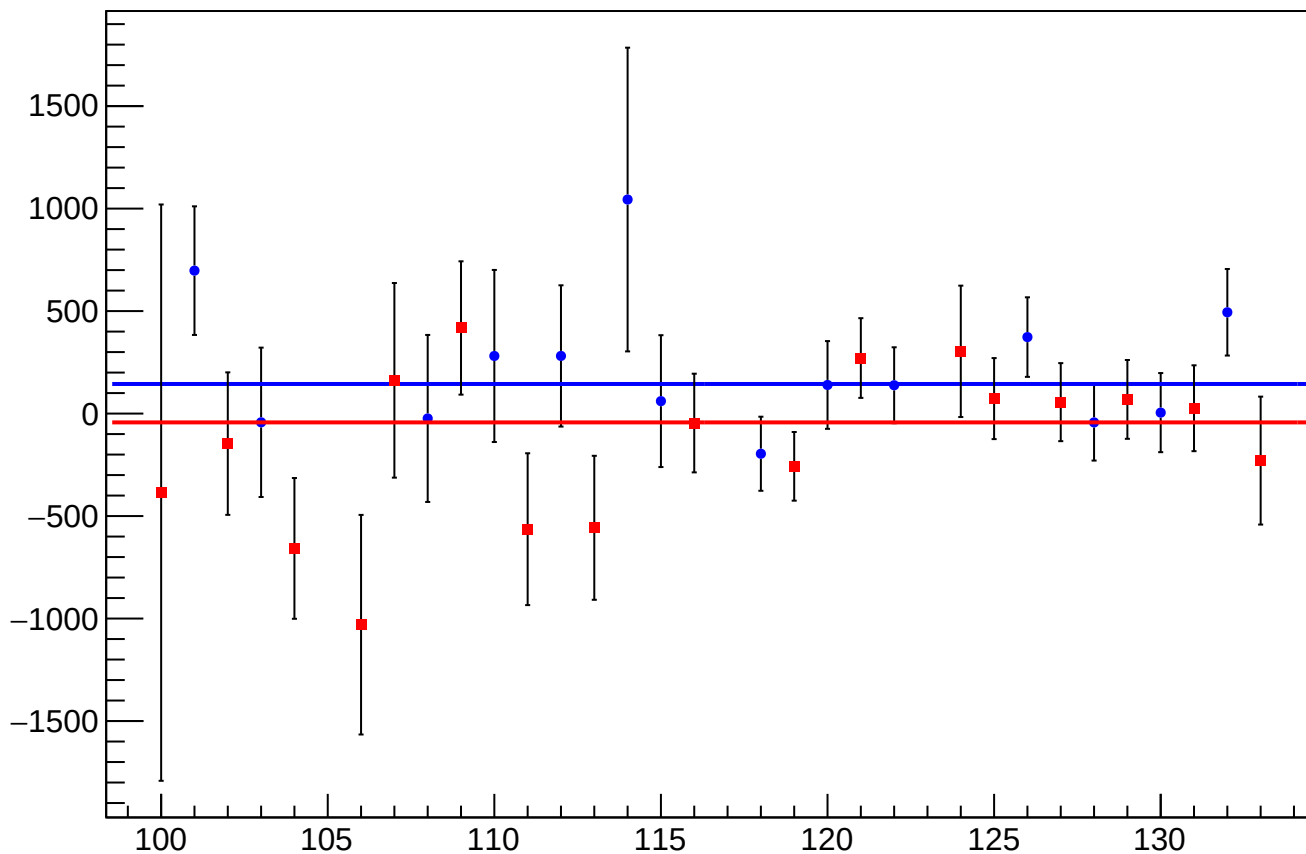
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1539.252 $\pm$ 0.318  $\chi^2$ /NDF: 1874762.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 144.384 $\pm$ 65.152  $\chi^2$ /NDF: 14.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -43.068 $\pm$ 62.941  $\chi^2$ /NDF: 19.9/16

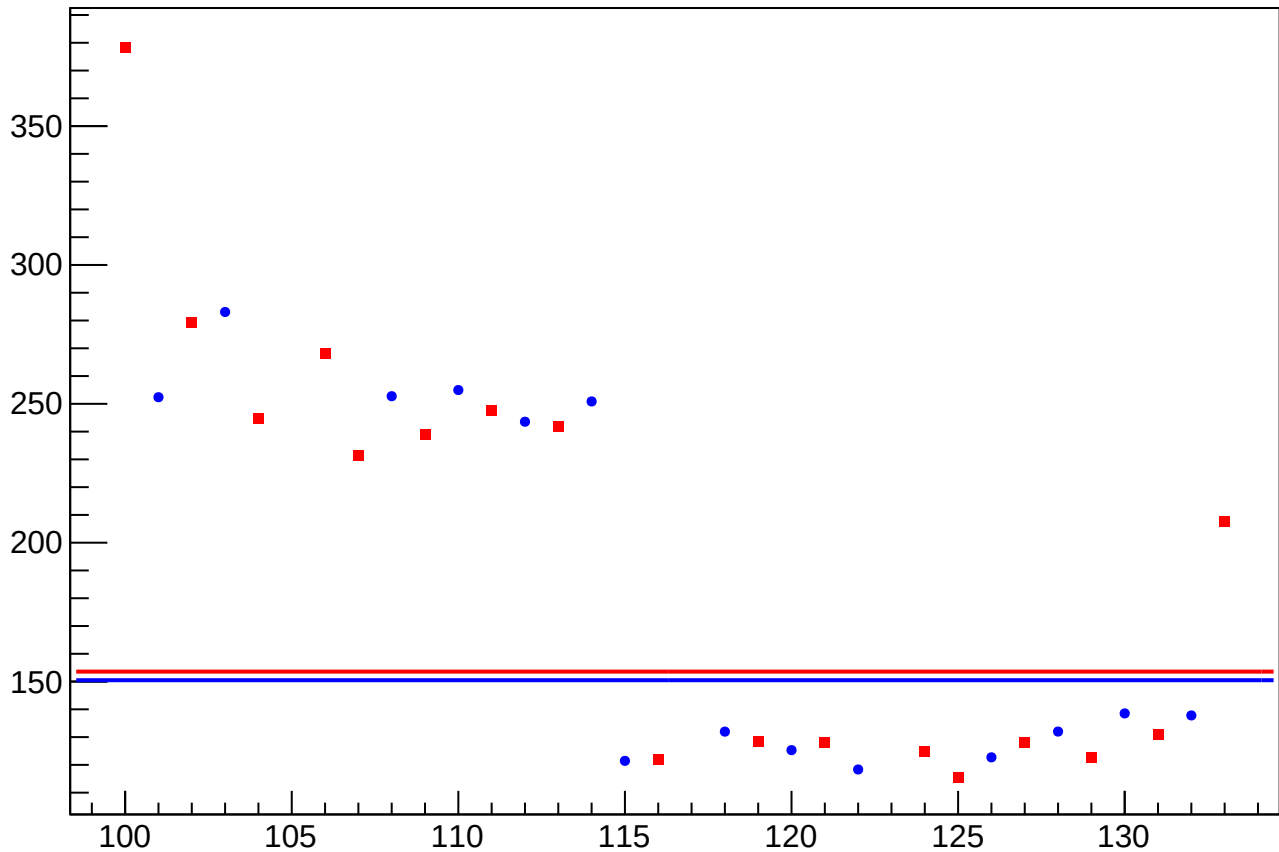
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.424 $\pm$ 45.267  $\chi^2$ /NDF: 38.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 150.483+/-0.046  $\chi^2/\text{NDF}$ : 1109078.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 153.582+/-0.045  $\chi^2/\text{NDF}$ : 1367237.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

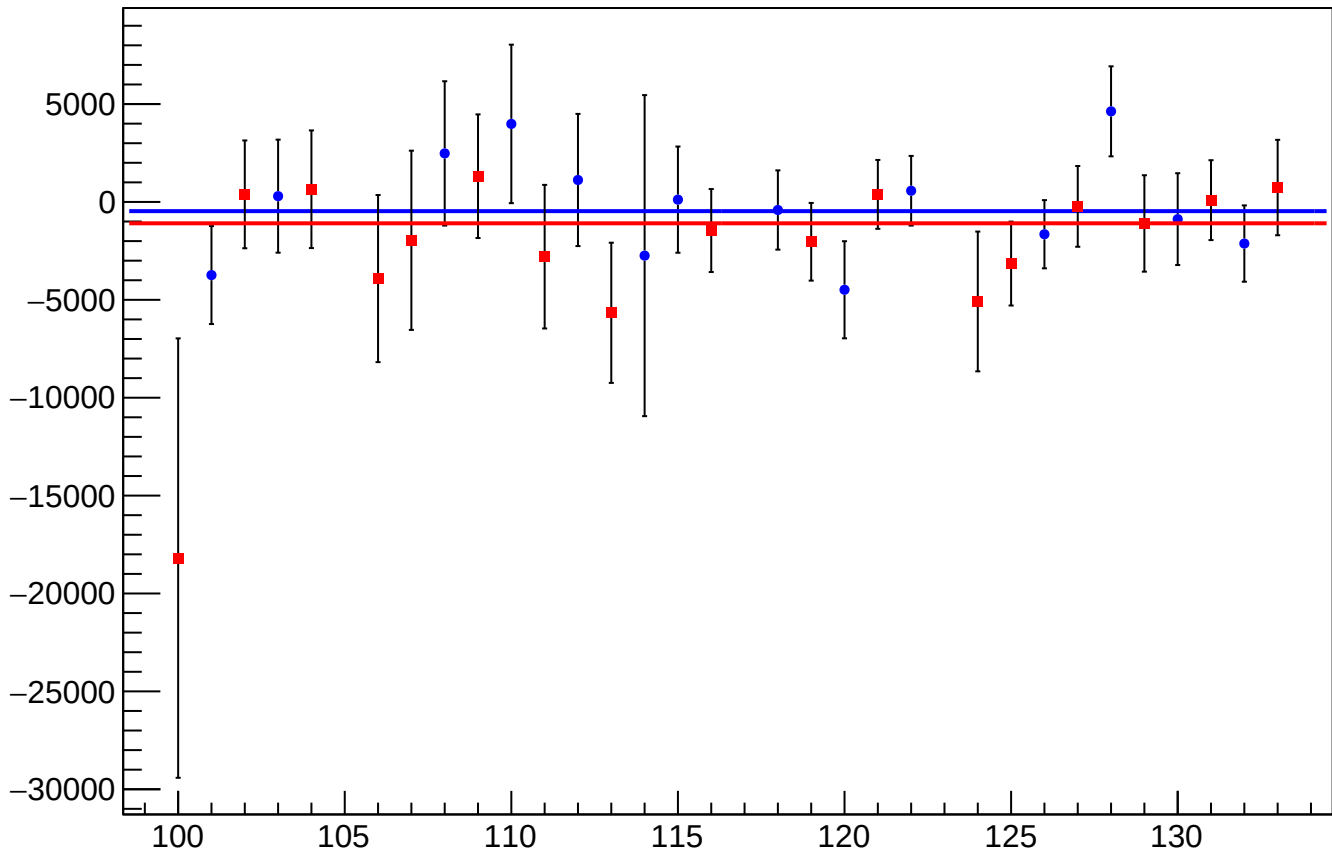
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 152.086+/-0.032  $\chi^2/\text{NDF}$ : 2478656.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_26\_avg\_dit\_correction\_mean vs Slug



Right In:  $-469.585 \pm 653.835$   $\chi^2/\text{NDF}$ : 13.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1090.541 \pm 631.179$   $\chi^2/\text{NDF}$ : 10.1/16

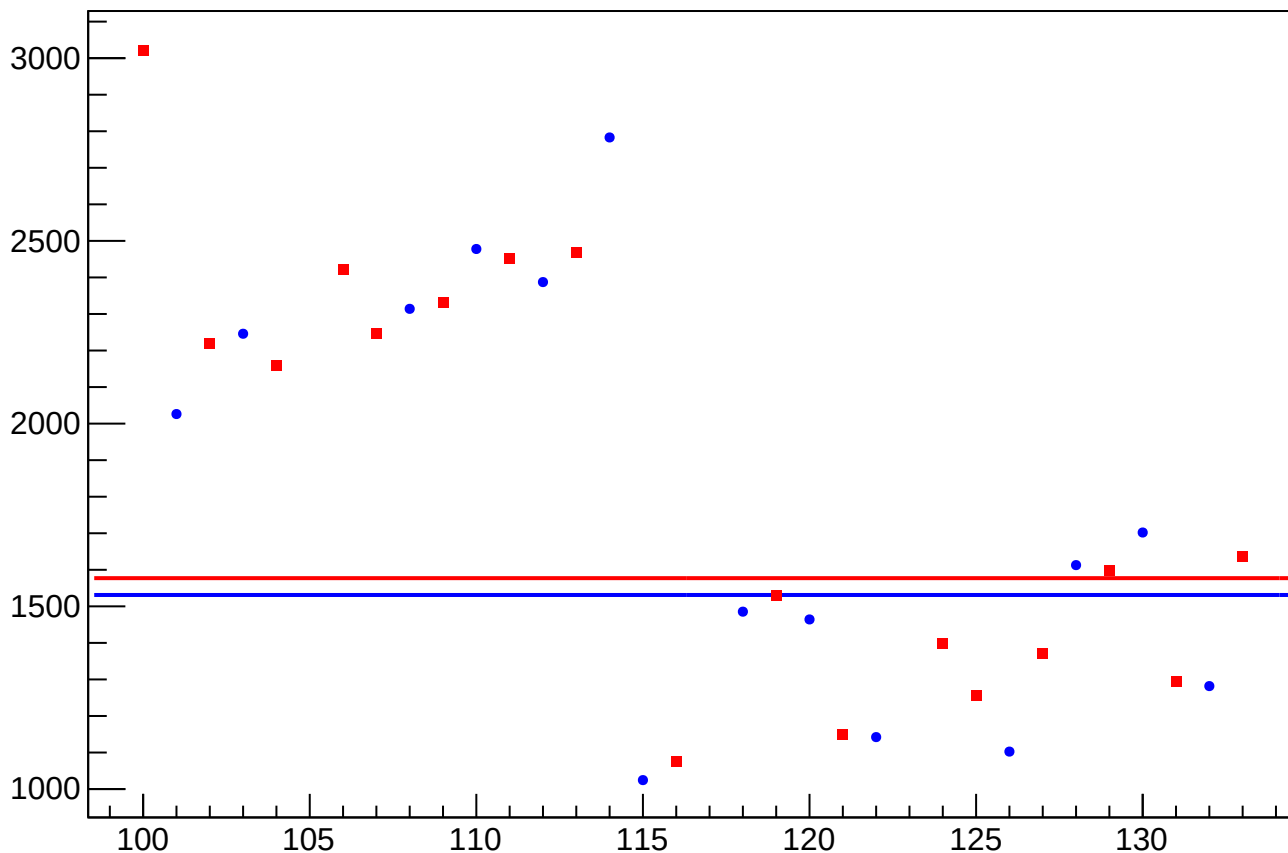
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-791.008 \pm 454.109$   $\chi^2/\text{NDF}$ : 23.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_dit\_correction\_rms vs Slug



Right In: 1531.109+/-0.462  $\chi^2/\text{NDF}$ : 910531.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1577.149+/-0.446  $\chi^2/\text{NDF}$ : 1029841.5/16

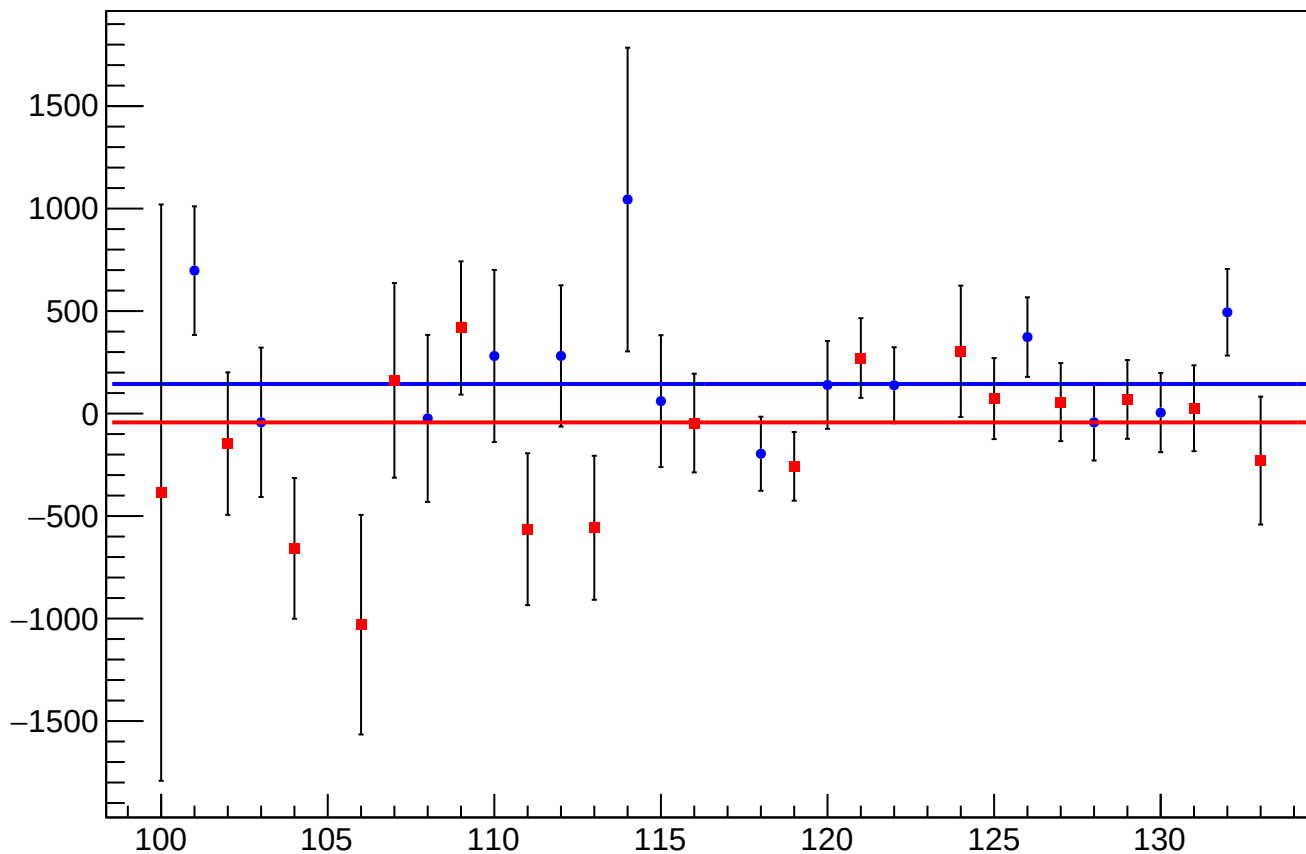
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1554.941+/-0.321  $\chi^2/\text{NDF}$ : 1945506.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 144.385 $\pm$ 65.151  $\chi^2$ /NDF: 14.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -43.068 $\pm$ 62.940  $\chi^2$ /NDF: 19.9/16

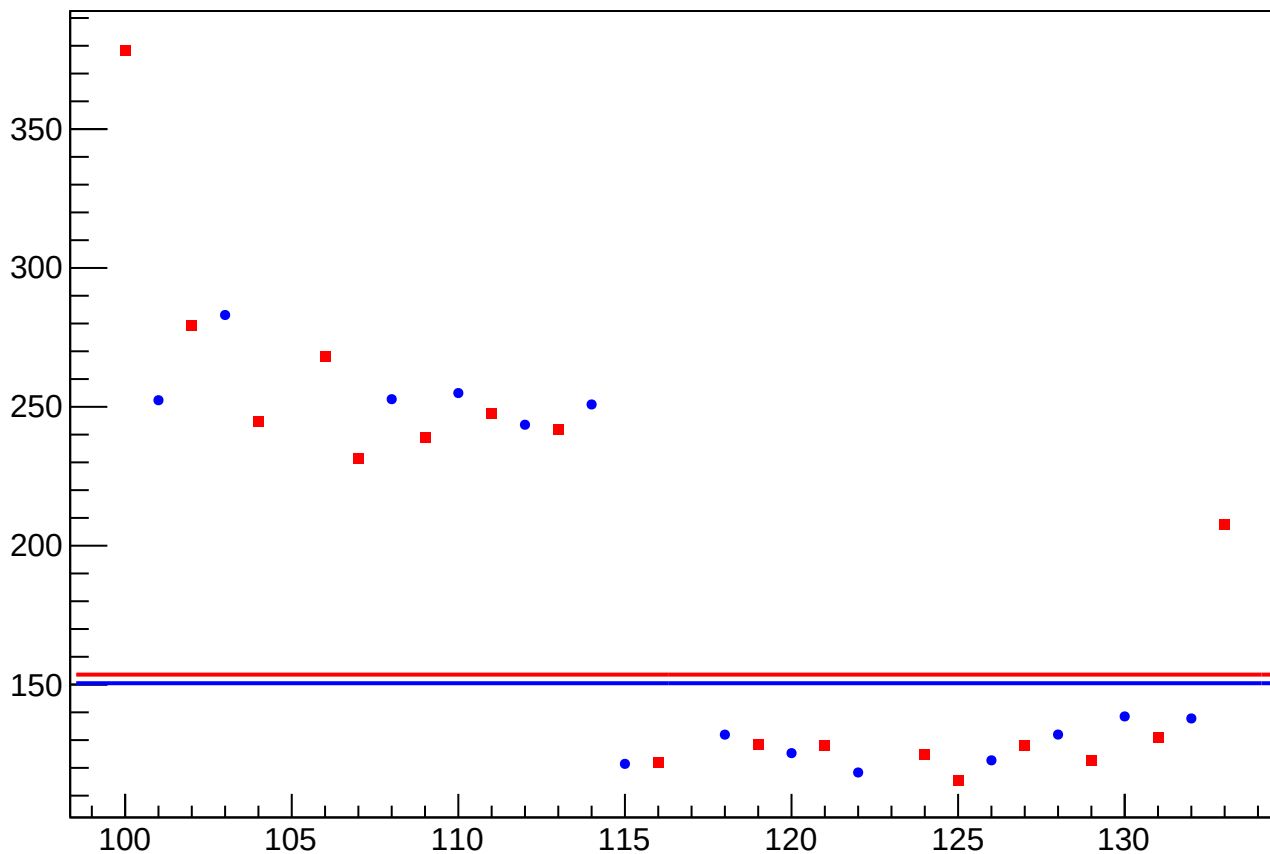
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.424 $\pm$ 45.267  $\chi^2$ /NDF: 38.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 150.482 $\pm$ 0.046  $\chi^2$ /NDF: 1109072.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 153.581 $\pm$ 0.045  $\chi^2$ /NDF: 1367225.1/16

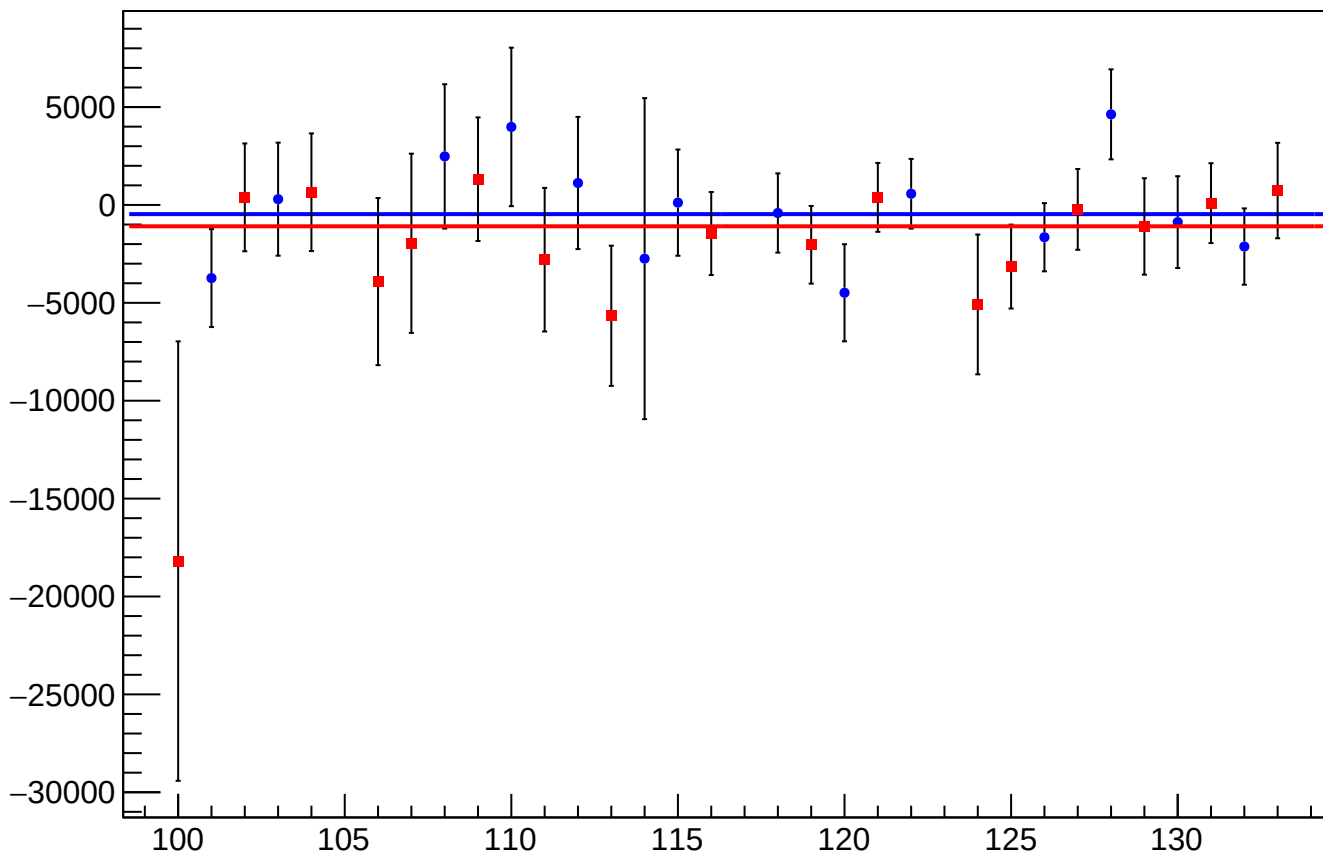
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 152.085 $\pm$ 0.032  $\chi^2$ /NDF: 2478639.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -469.584+/-653.834  $\chi^2$ /NDF: 13.1/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1090.539+/-631.178  $\chi^2$ /NDF: 10.1/16

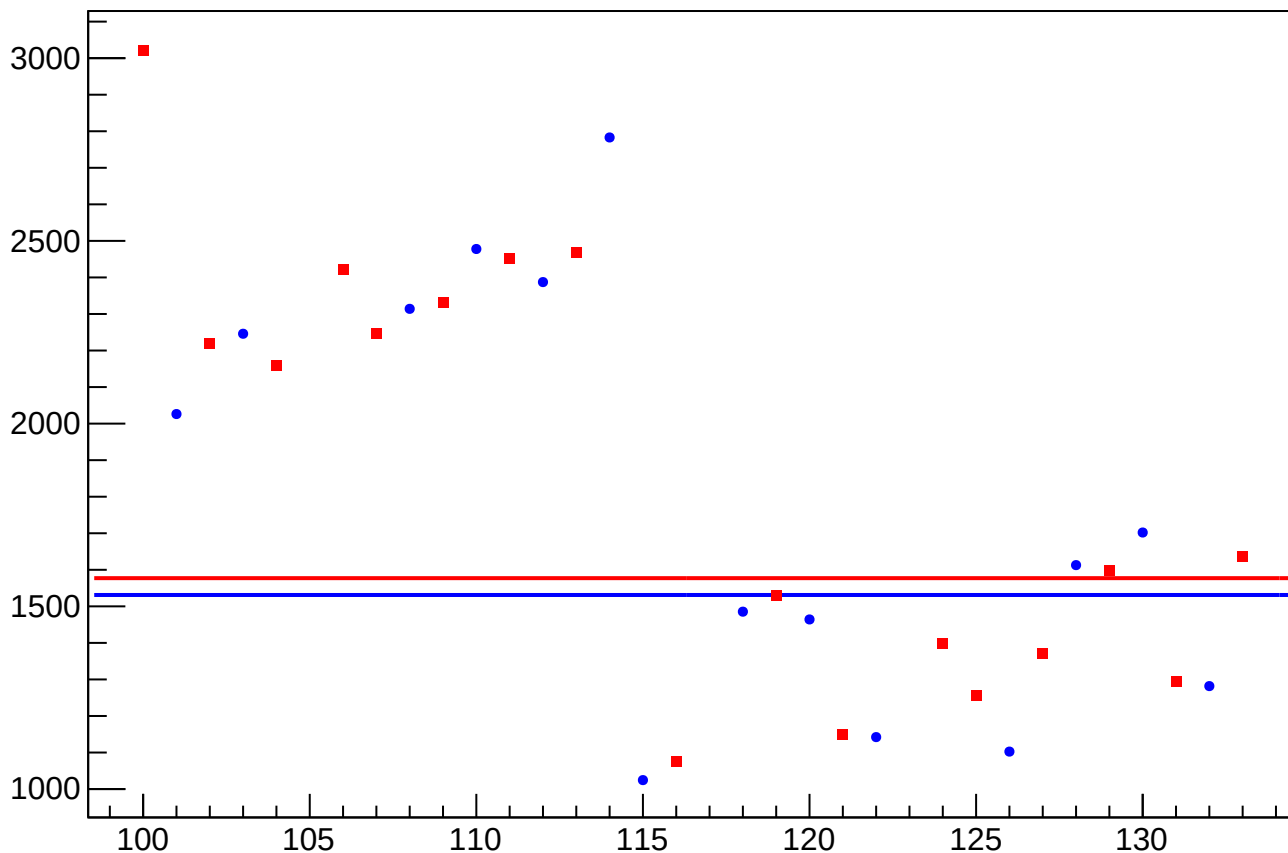
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -791.006+/-454.108  $\chi^2$ /NDF: 23.6/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1531.106+/-0.462  $\chi^2/\text{NDF}$ : 910521.2/13

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

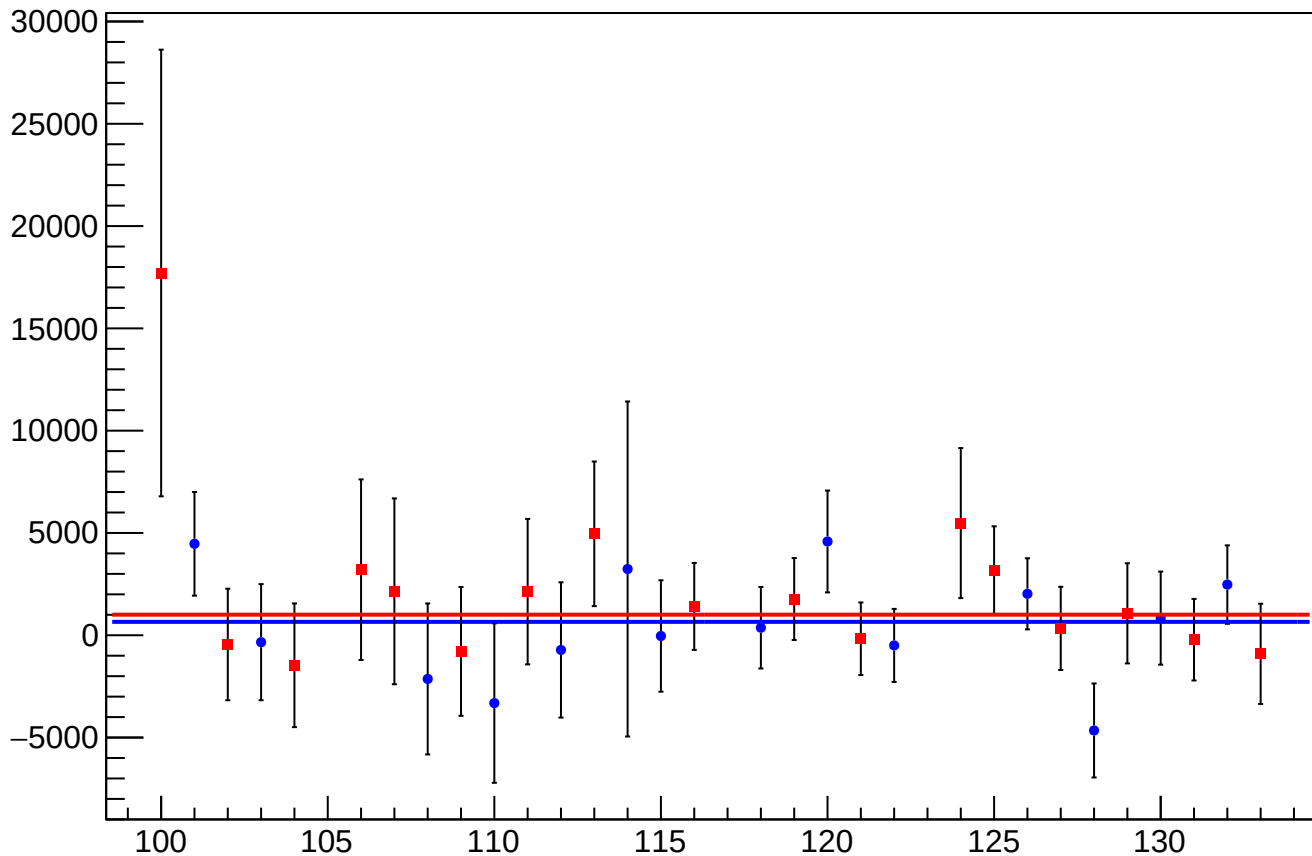
Right Out: 1577.146+/-0.446  $\chi^2/\text{NDF}$ : 1029832.6/16

All: 1554.937+/-0.321  $\chi^2/\text{NDF}$ : 1945487.0/30

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_mean vs Slug



Right In: 655.624+/-649.137  $\chi^2/\text{NDF}$ : 14.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1006.562+/-629.887  $\chi^2/\text{NDF}$ : 9.5/16

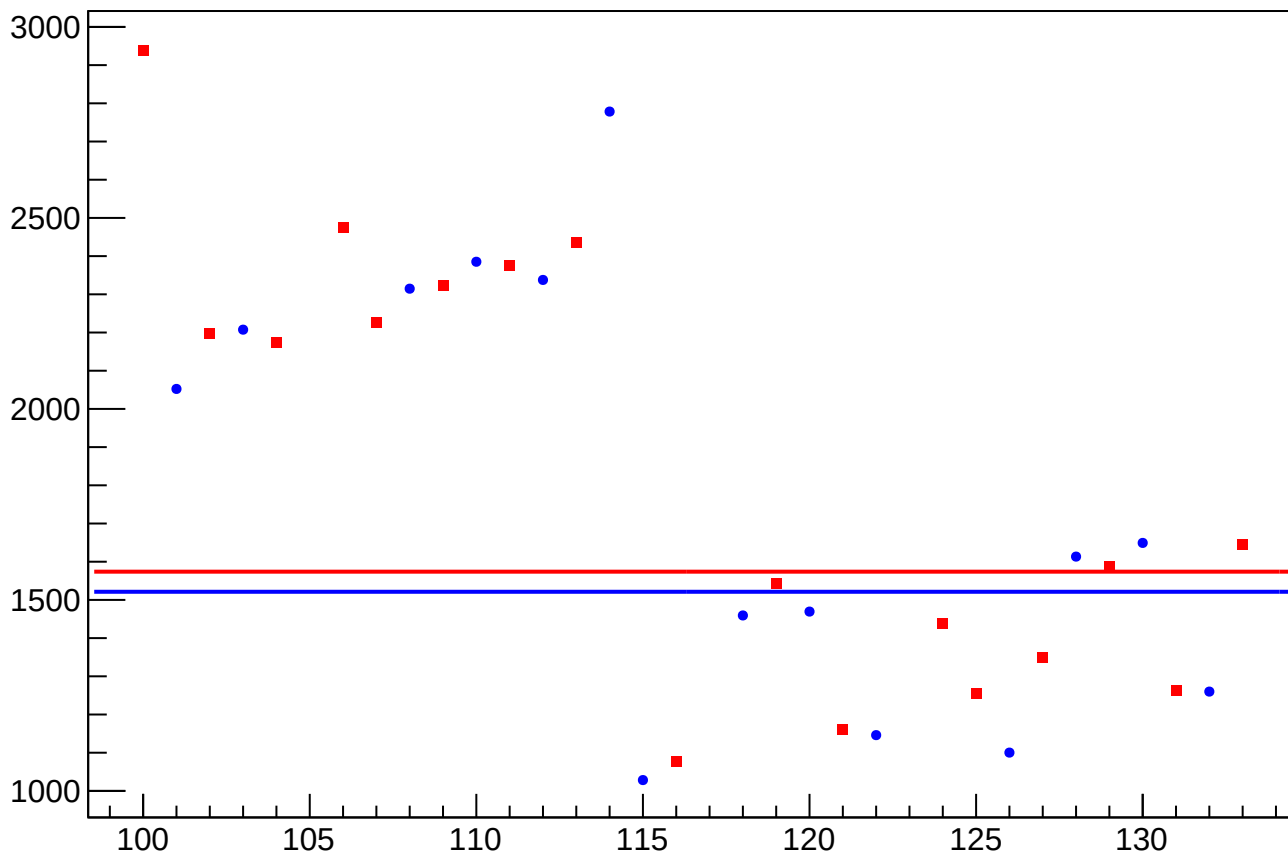
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 836.374+/-452.050  $\chi^2/\text{NDF}$ : 23.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_rms vs Slug



Right In: 1521.317+/-0.459  $\chi^2/\text{NDF}$ : 885217.6/13

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: 1573.943+/-0.445  $\chi^2/\text{NDF}$ : 1011868.3/16

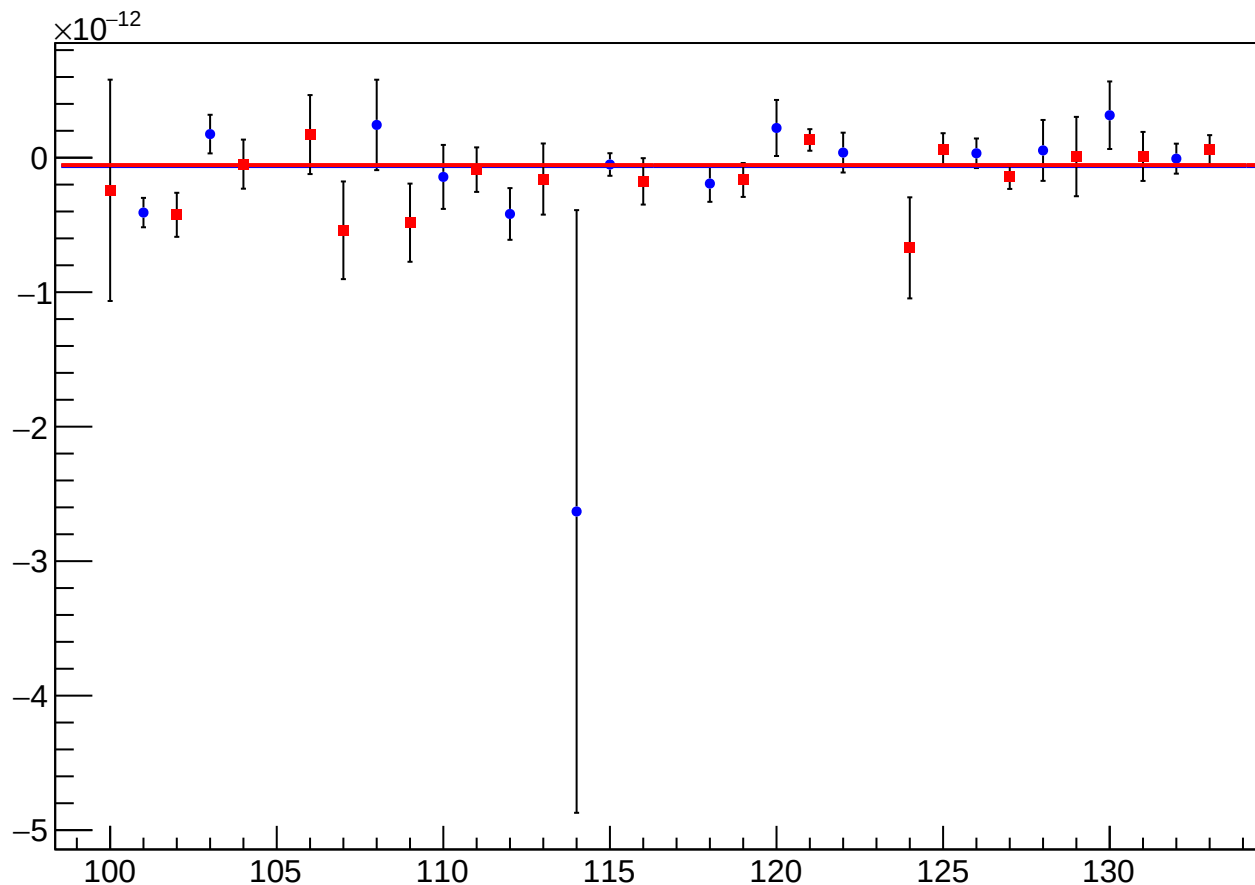
All: 1548.422+/-0.320  $\chi^2/\text{NDF}$ : 1903856.2/30

- 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\_26\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 25.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 22.3/16

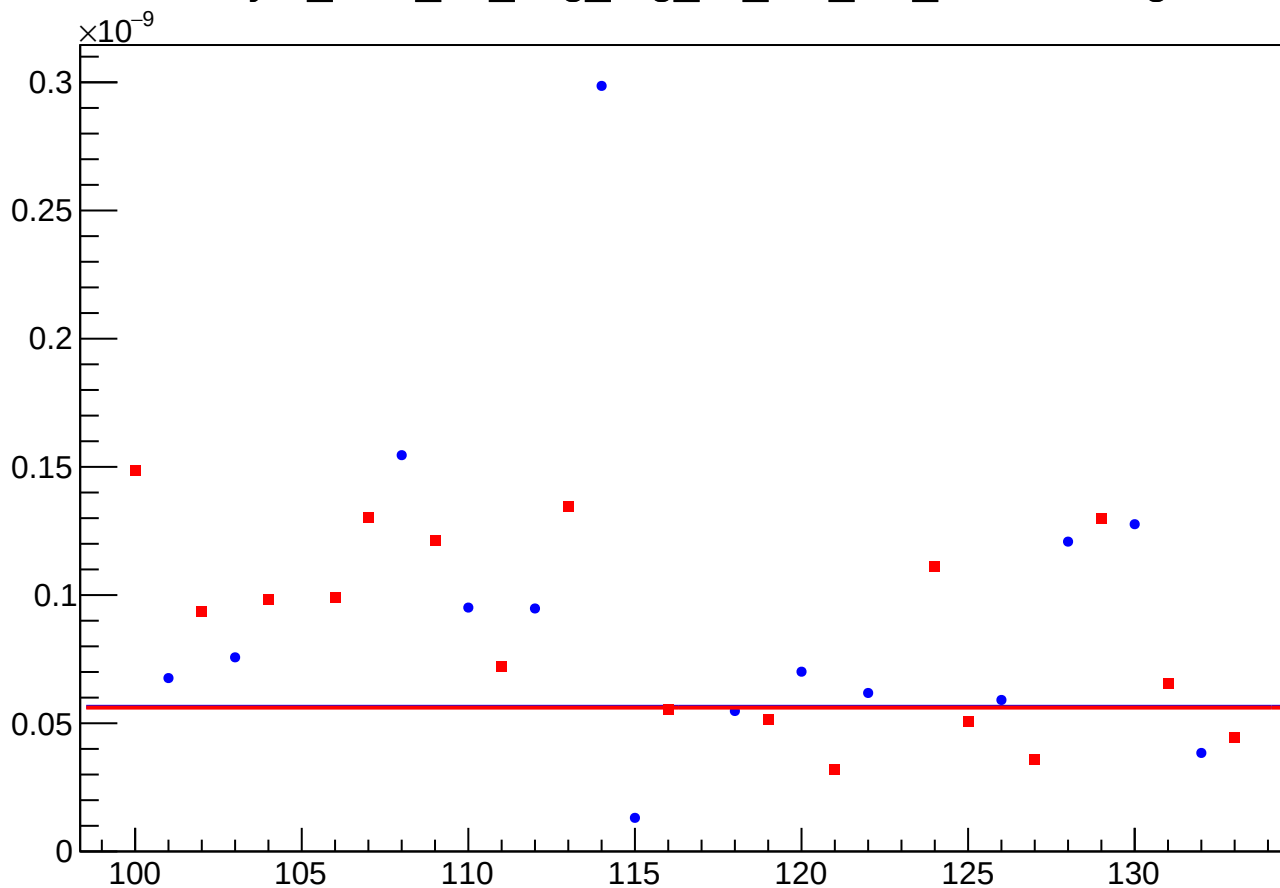
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 47.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1303619.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1140722.2/16

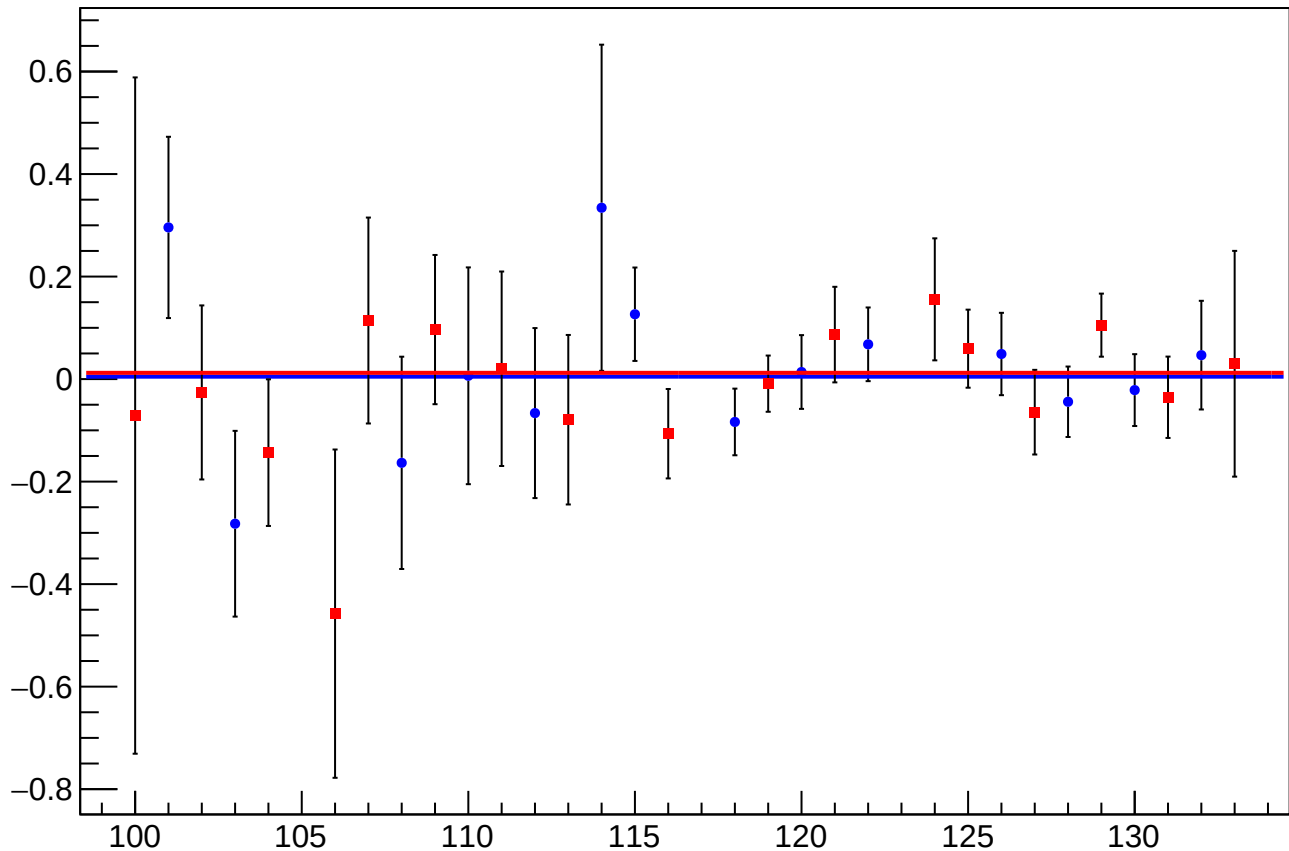
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2444404.5/30

- 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: 0.005 $\pm$ 0.025  $\chi^2$ /NDF: 12.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.012 $\pm$ 0.025  $\chi^2$ /NDF: 12.3/16

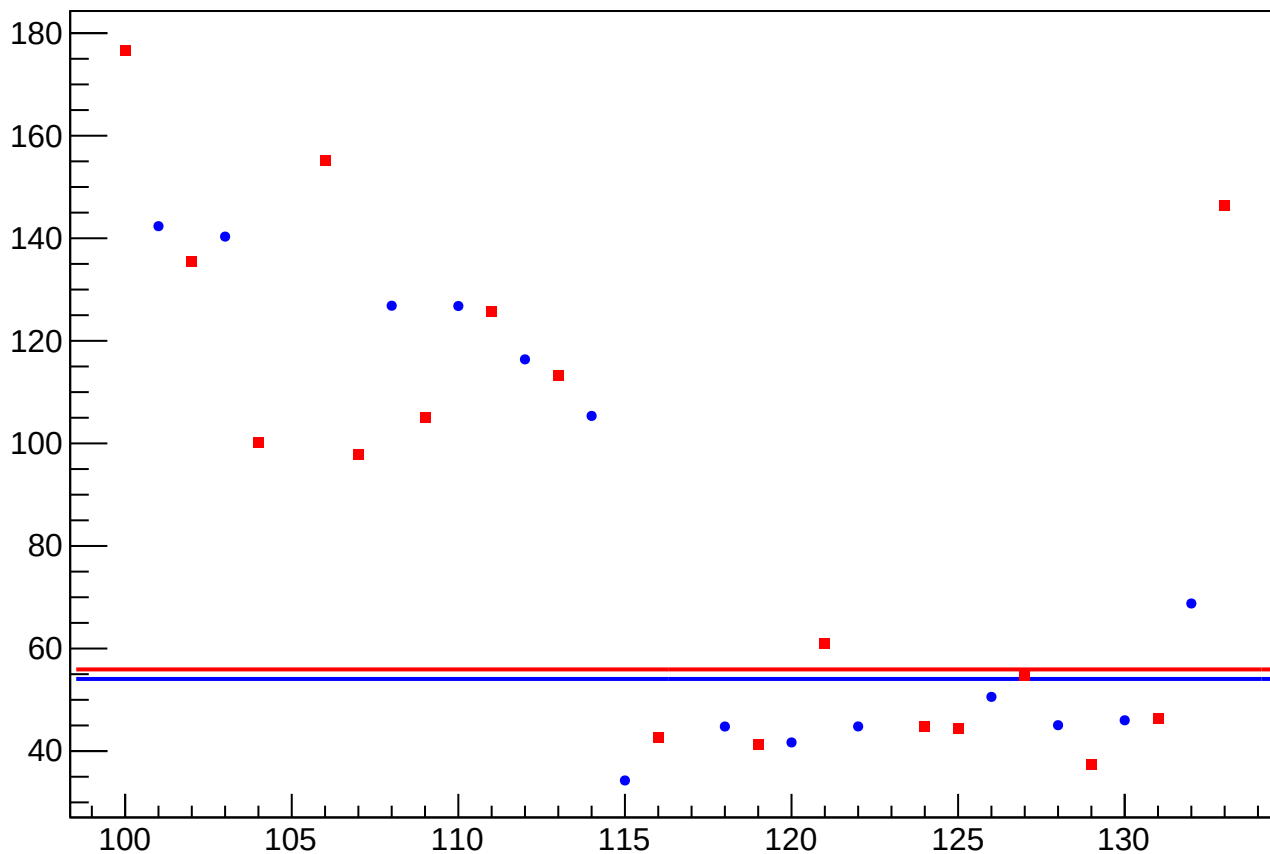
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.018  $\chi^2$ /NDF: 25.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 54.069+/-0.018  $\chi^2/\text{NDF}$ : 2100594.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.928+/-0.017  $\chi^2/\text{NDF}$ : 2523440.9/16

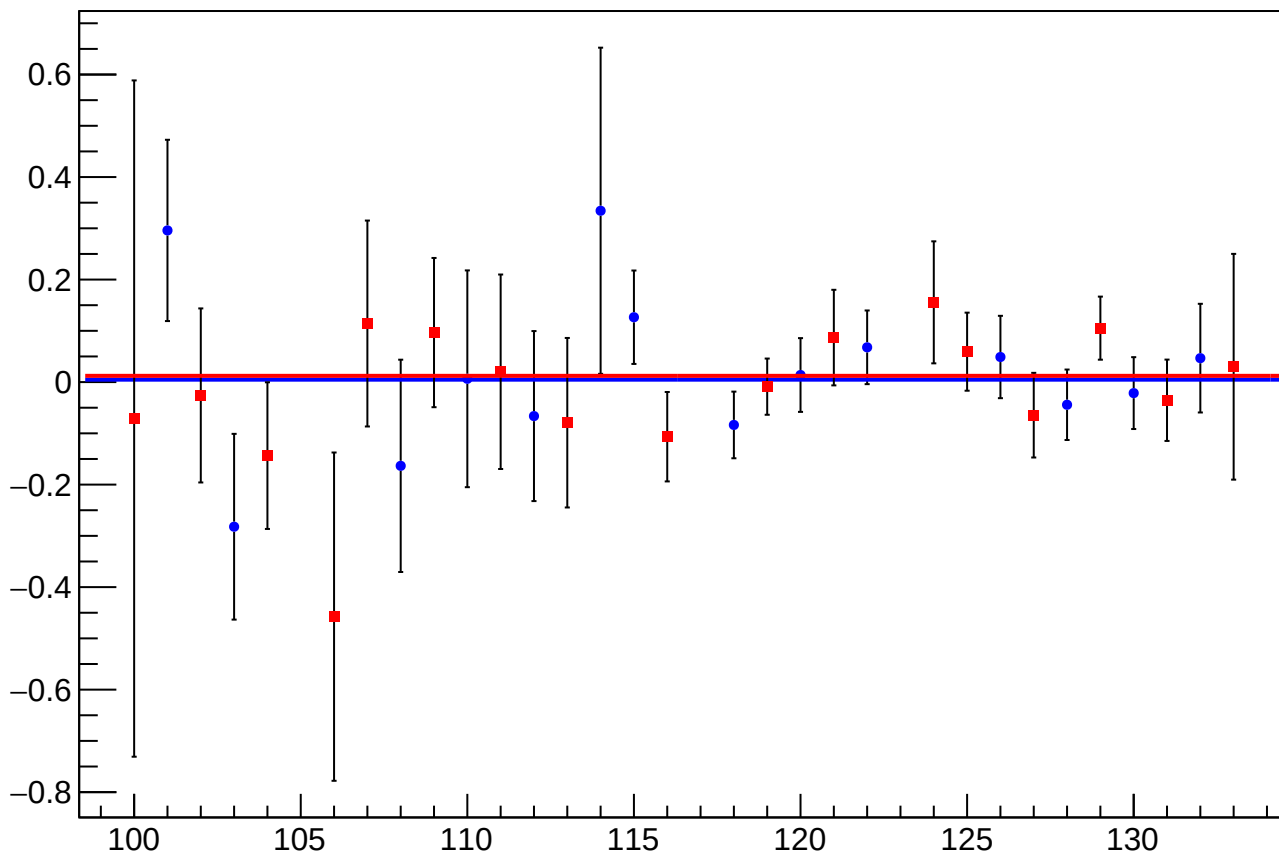
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 55.024+/-0.012  $\chi^2/\text{NDF}$ : 4629560.7/30

- 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: 0.005 $\pm$ 0.025  $\chi^2$ /NDF: 12.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.012 $\pm$ 0.025  $\chi^2$ /NDF: 12.3/16

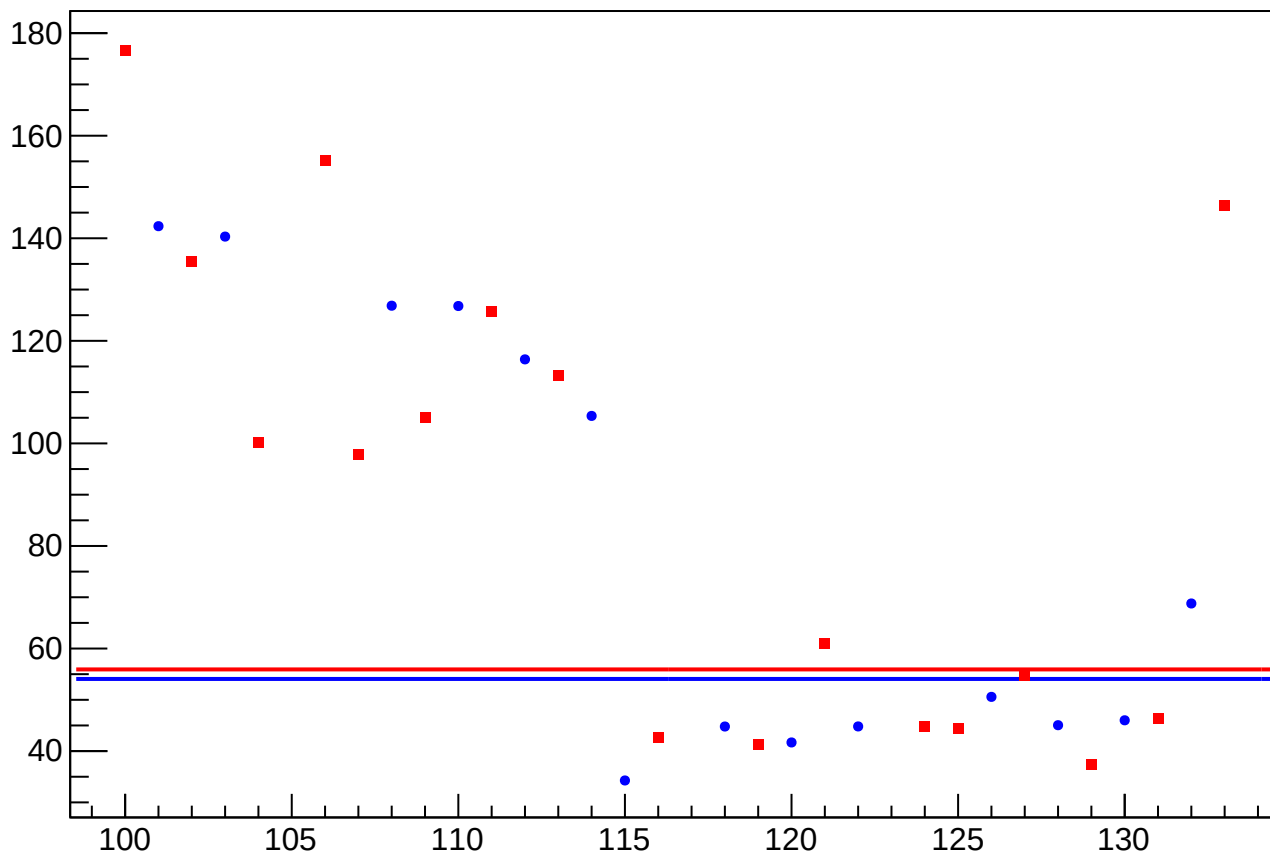
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.018  $\chi^2$ /NDF: 25.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 54.069+/-0.018  $\chi^2/\text{NDF}$ : 2100594.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.928+/-0.017  $\chi^2/\text{NDF}$ : 2523440.9/16

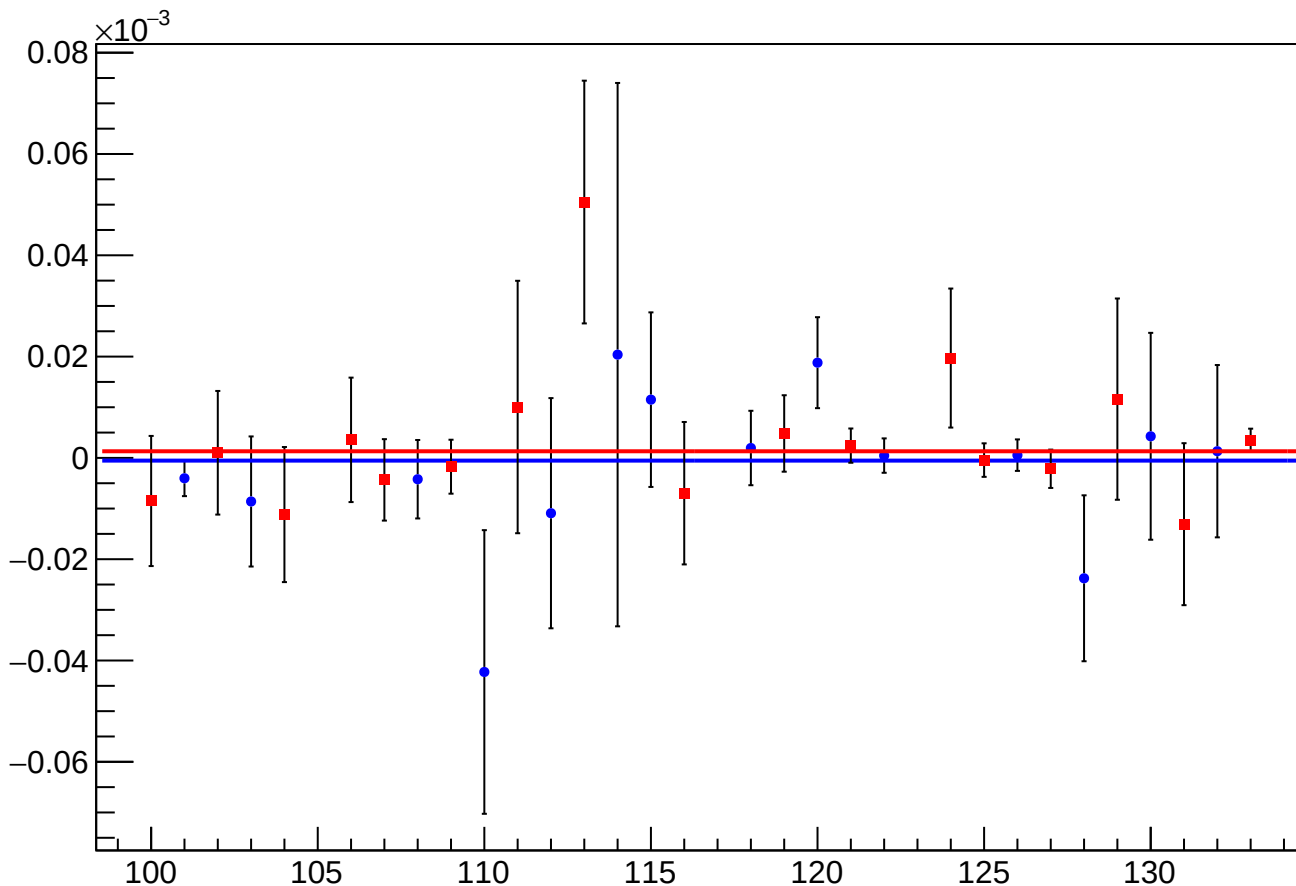
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 55.024+/-0.012  $\chi^2/\text{NDF}$ : 4629560.7/30

- 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  $\chi^2/\text{NDF}$ : 11.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.3/16

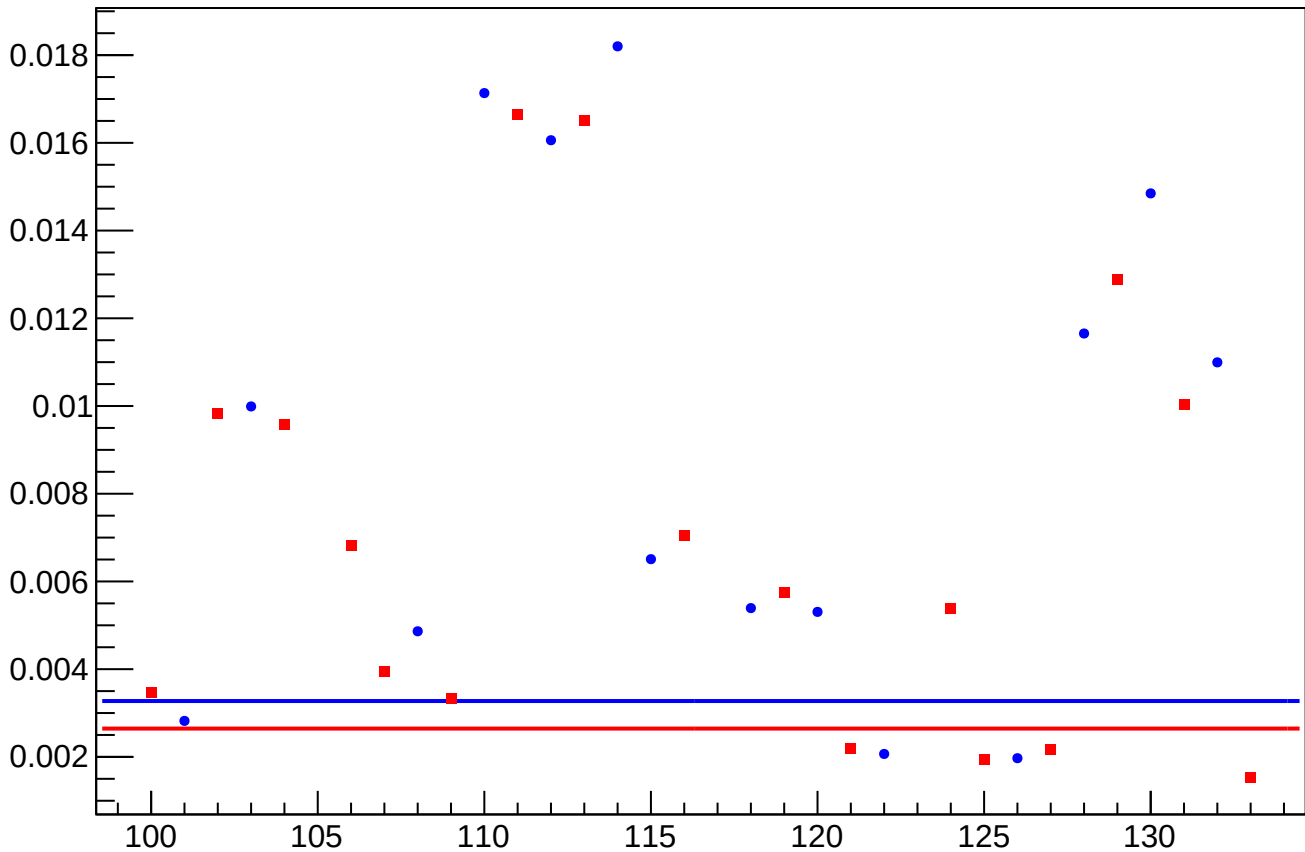
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 24.7/30

- 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: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 4464006.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 5079579.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

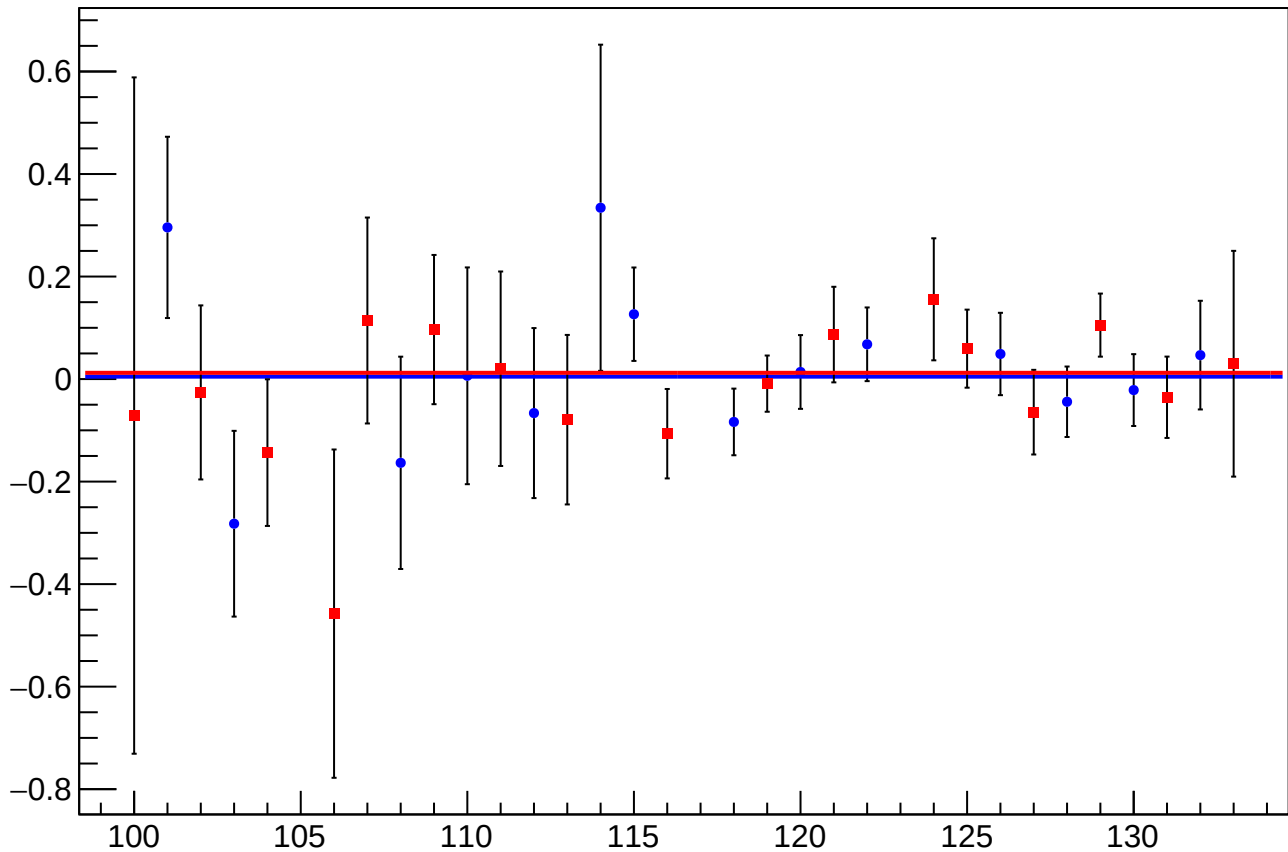
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 9710438.8/30

- 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: 0.005 $\pm$ 0.025  $\chi^2$ /NDF: 12.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.012 $\pm$ 0.025  $\chi^2$ /NDF: 12.3/16

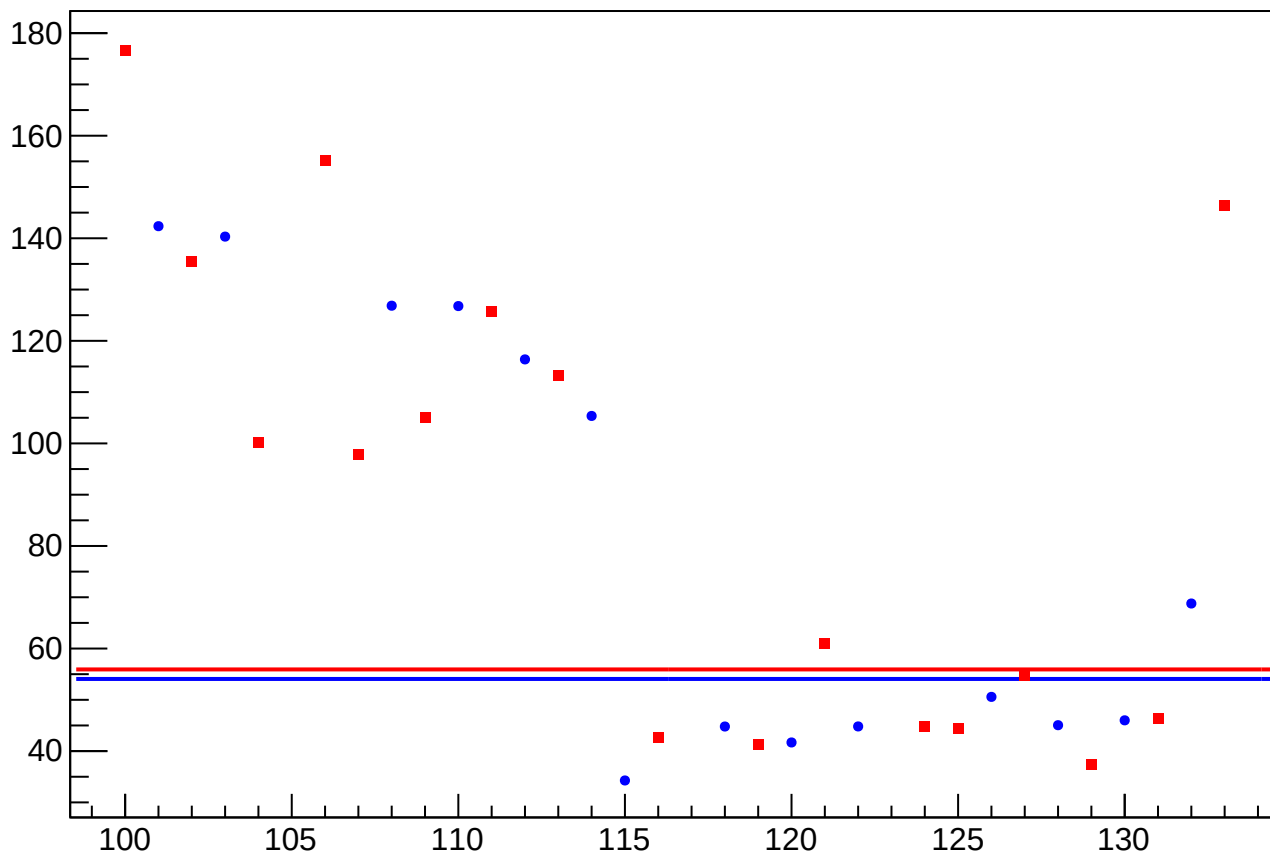
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.018  $\chi^2$ /NDF: 25.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 54.069+/-0.018  $\chi^2$ /NDF: 2100512.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 55.927+/-0.017  $\chi^2$ /NDF: 2523383.0/16

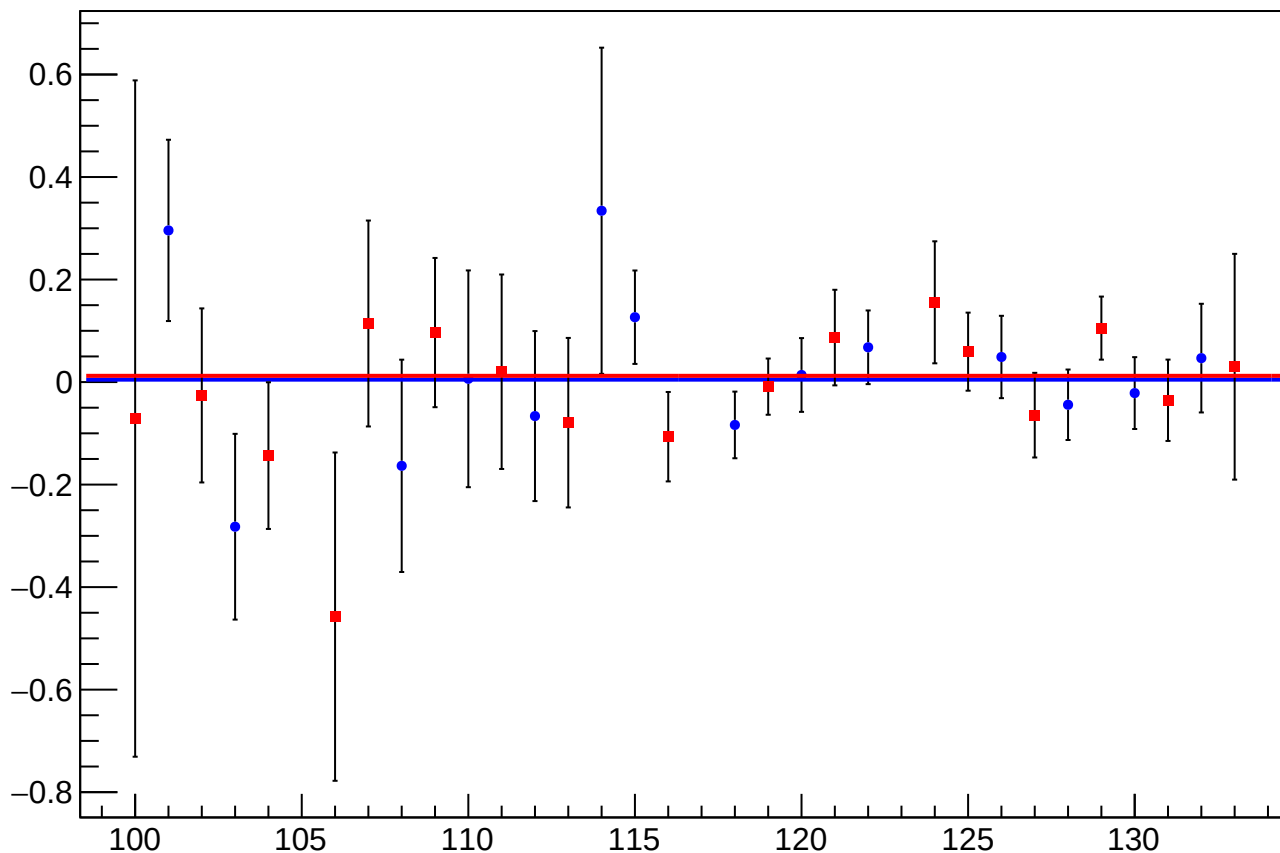
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 55.023+/-0.012  $\chi^2$ /NDF: 4629419.5/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.005 $\pm$ 0.025  $\chi^2$ /NDF: 12.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.012 $\pm$ 0.025  $\chi^2$ /NDF: 12.3/16

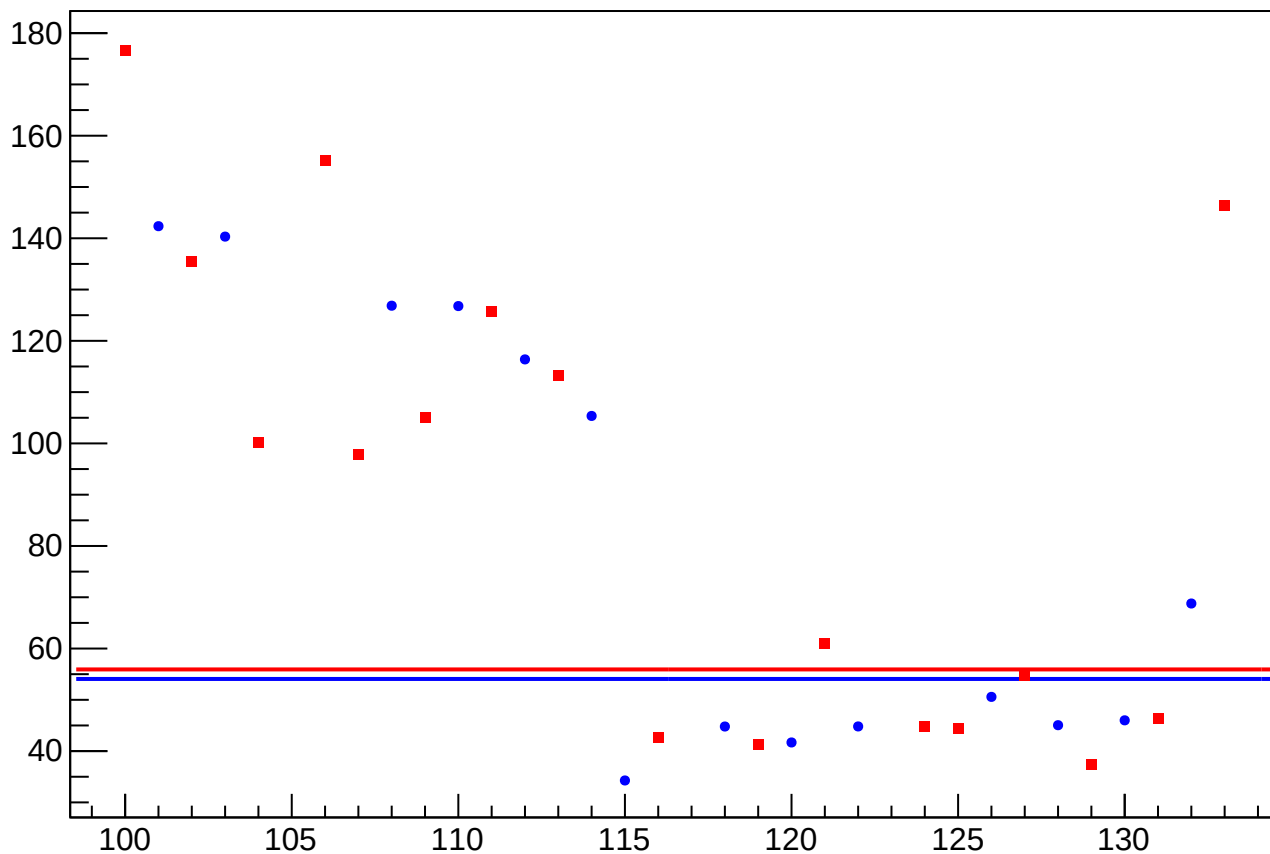
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.018  $\chi^2$ /NDF: 25.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 54.069+/-0.018  $\chi^2/\text{NDF}$ : 2100512.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.927+/-0.017  $\chi^2/\text{NDF}$ : 2523383.0/16

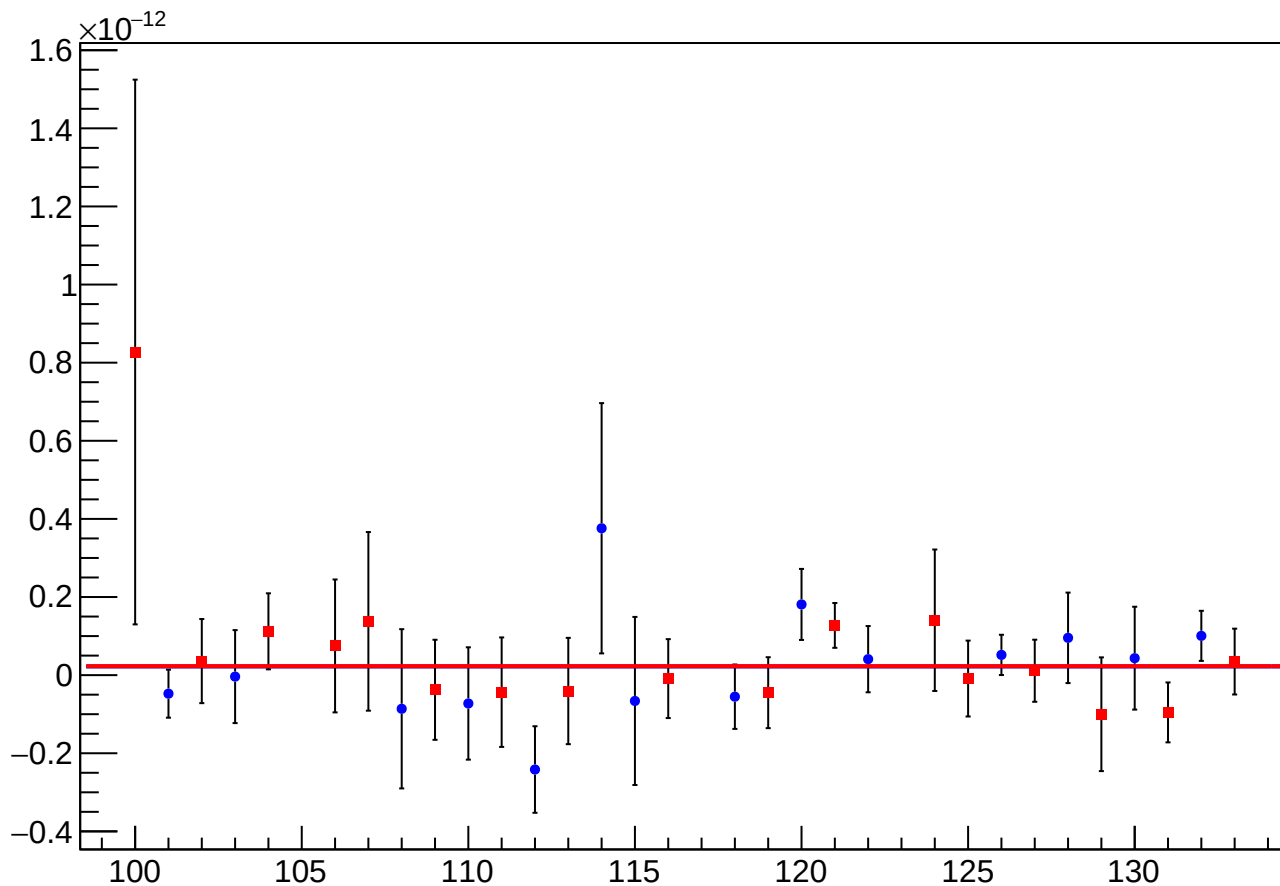
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 55.023+/-0.012  $\chi^2/\text{NDF}$ : 4629419.5/30

- 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+/-0.000  $\chi^2/\text{NDF}$ : 15.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.8/16

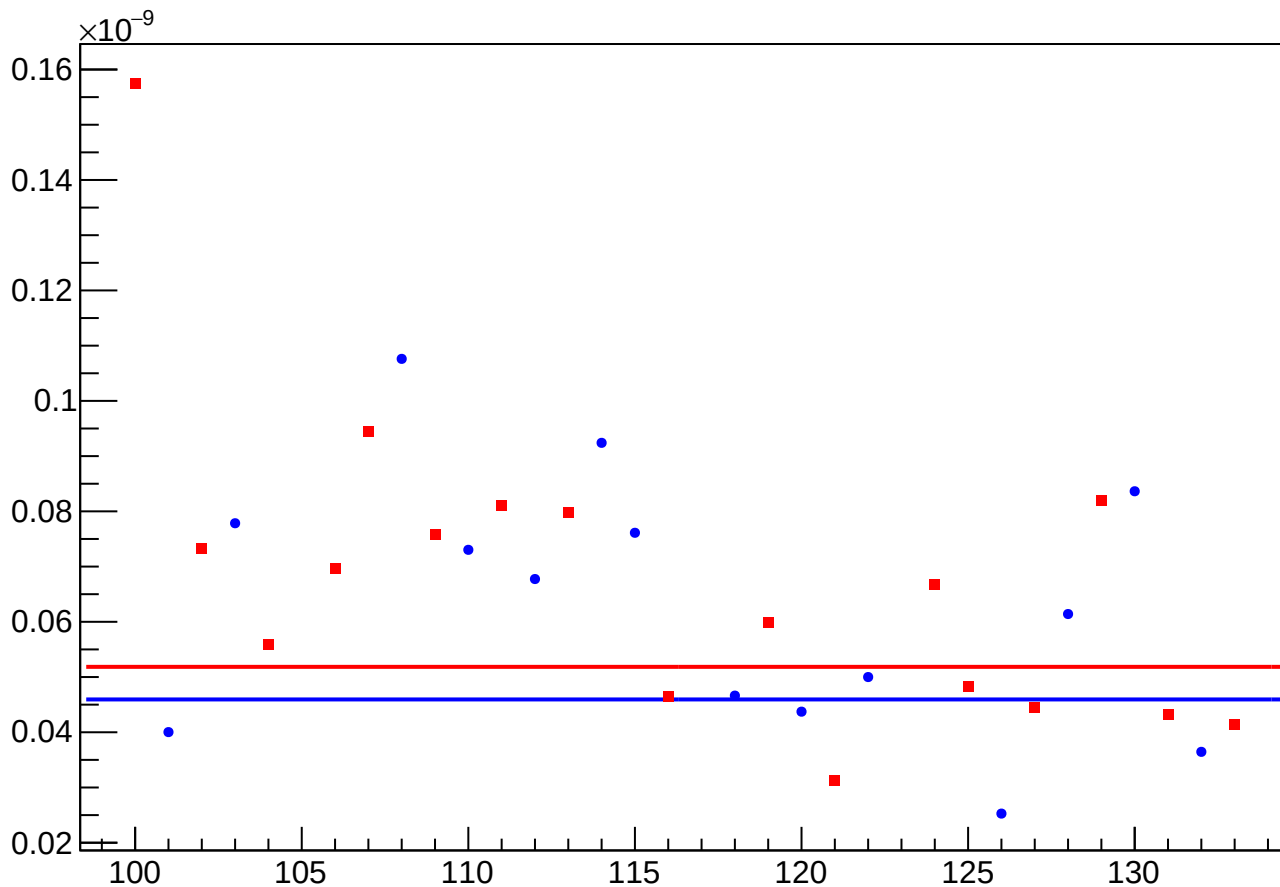
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 26.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1145799.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 914562.9/16

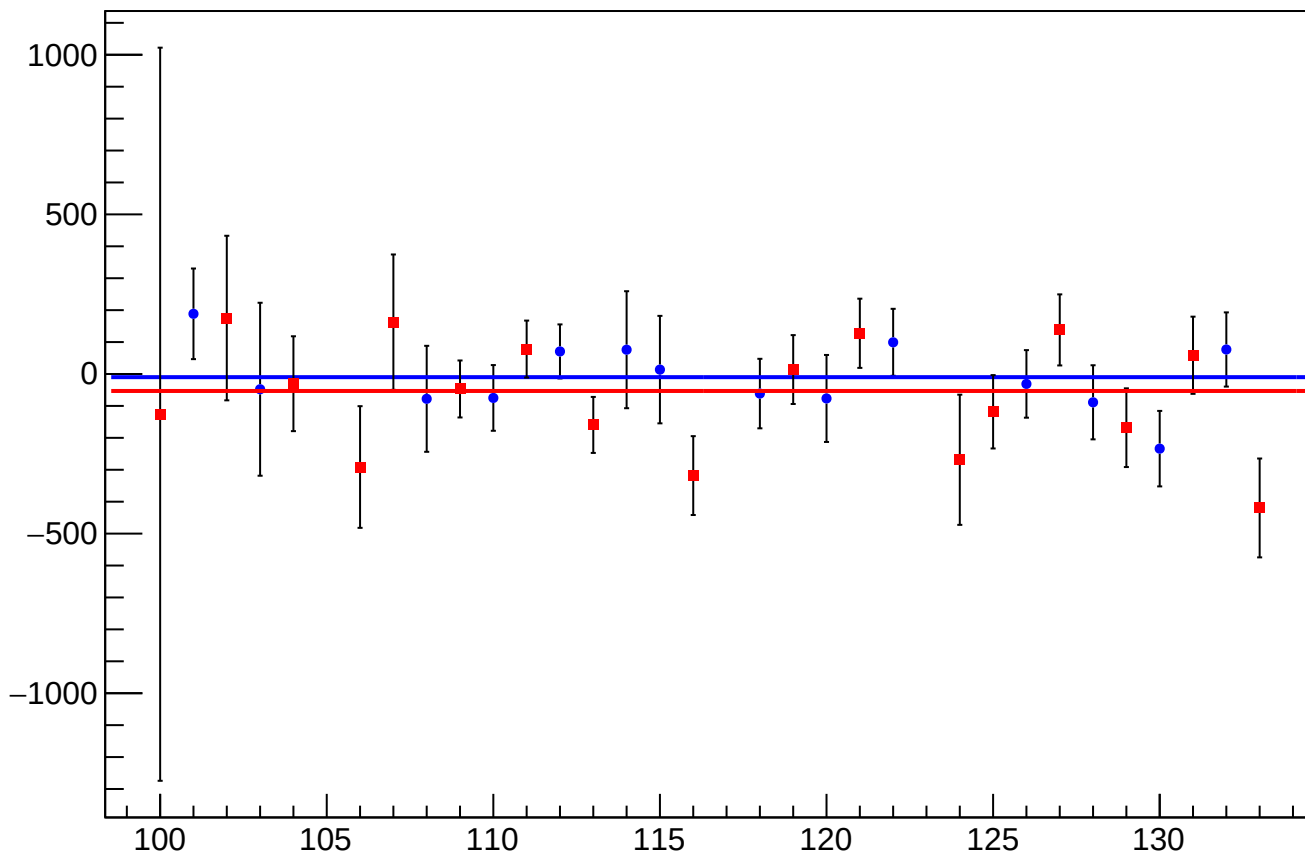
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2117253.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_avg\_mean vs Slug



Right In: -9.894+/-32.675  $\chi^2/\text{NDF}$ : 9.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -53.191+/-30.360  $\chi^2/\text{NDF}$ : 26.5/16

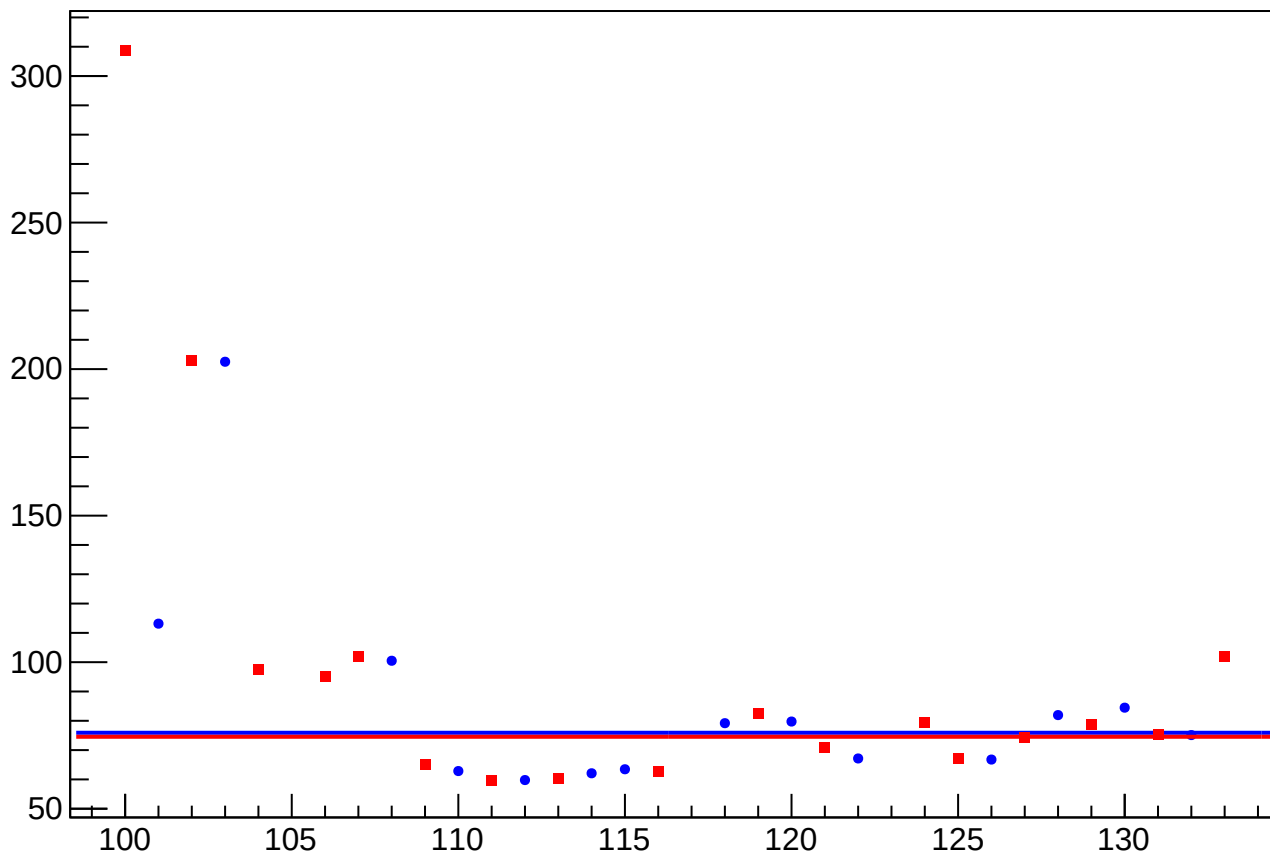
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -33.130+/-22.241  $\chi^2/\text{NDF}$ : 37.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 75.918+/-0.023  $\chi^2/\text{NDF}$ : 793517.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 74.552+/-0.021  $\chi^2/\text{NDF}$ : 918559.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

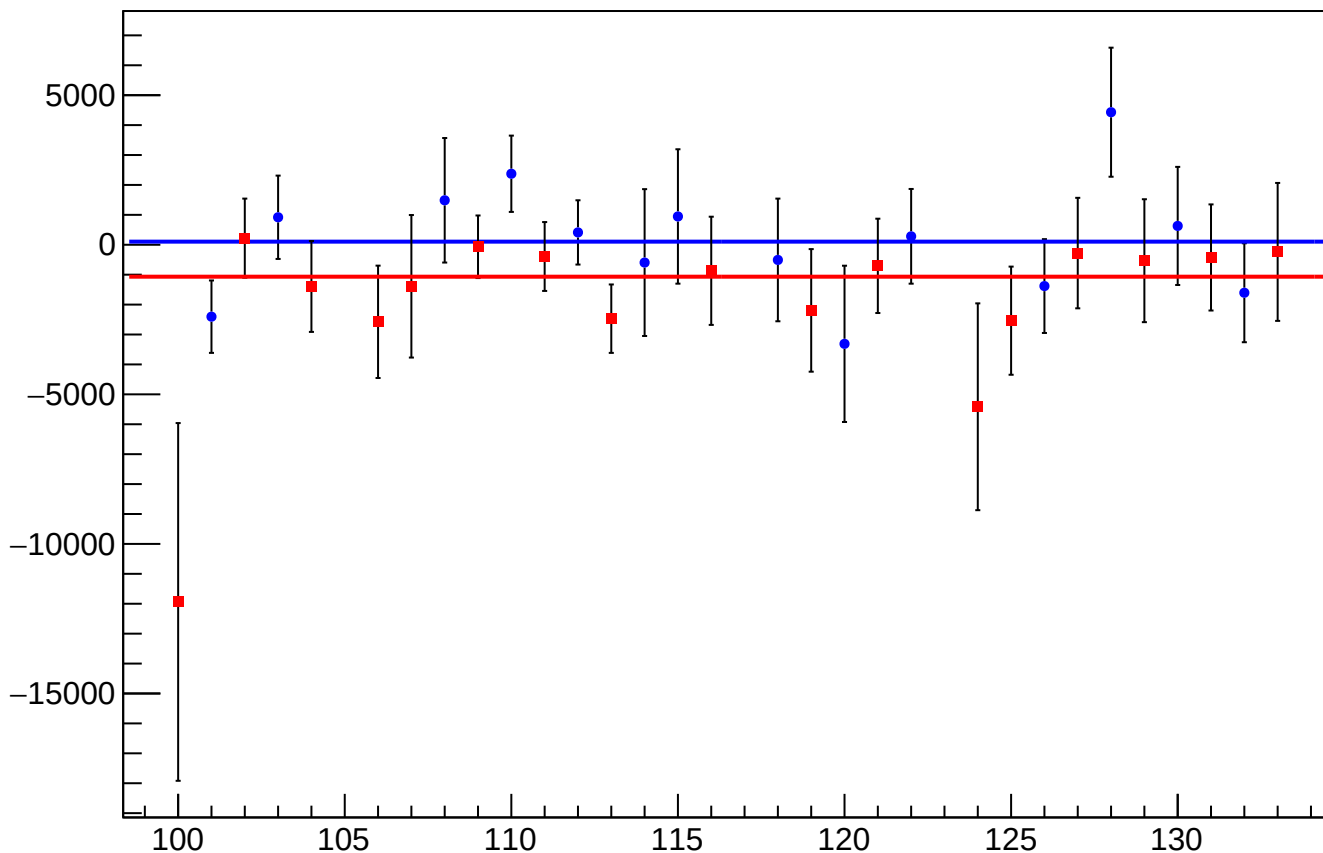
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.184+/-0.016  $\chi^2/\text{NDF}$ : 1713952.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_avg\_reg\_correction\_mean vs Slug



Right In: 104.419+/-434.299  $\chi^2/\text{NDF}$ : 16.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1067.121+/-398.413  $\chi^2/\text{NDF}$ : 10.9/16

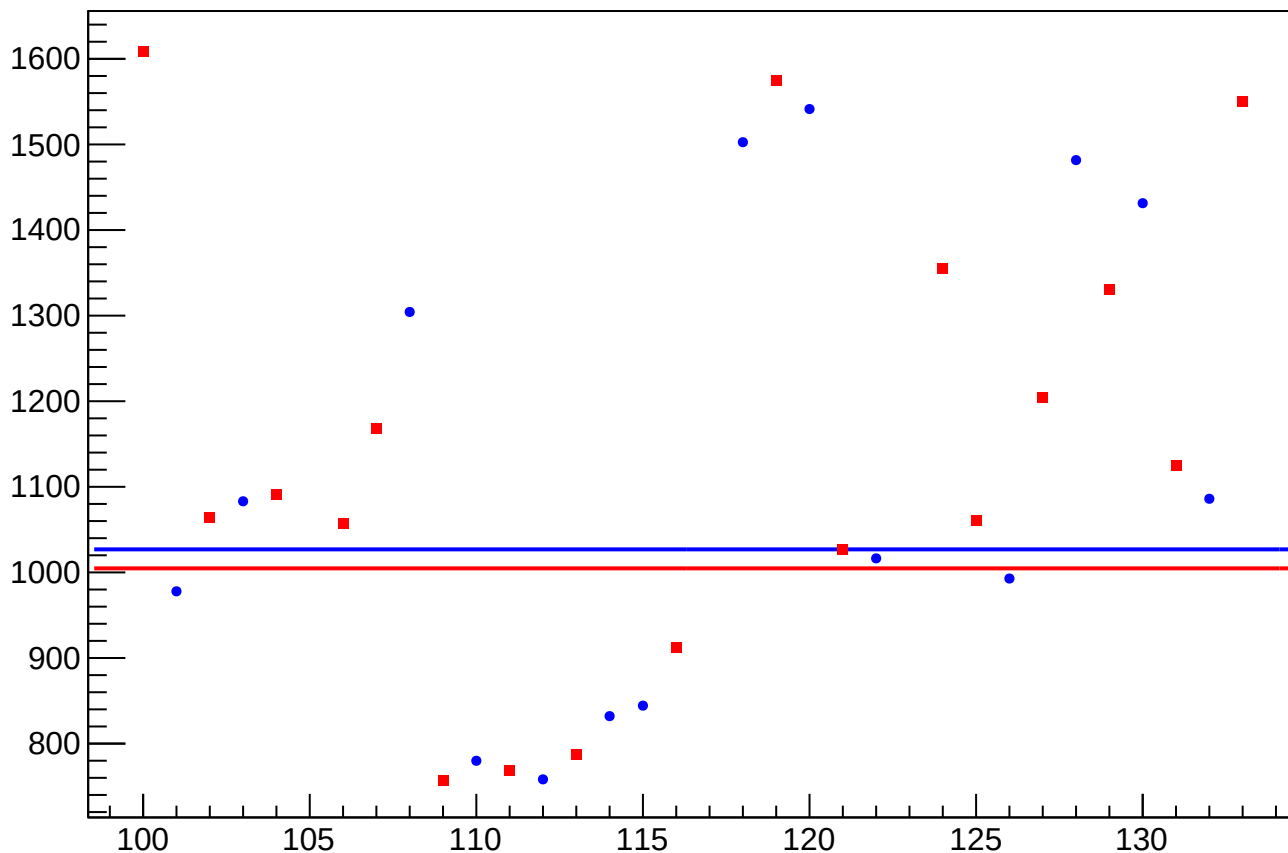
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -531.745+/-293.589  $\chi^2/\text{NDF}$ : 31.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_reg\_correction\_rms vs Slug



Right In: 1026.915+/-0.307  $\chi^2/\text{NDF}$ : 629658.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1004.725+/-0.282  $\chi^2/\text{NDF}$ : 688080.6/16

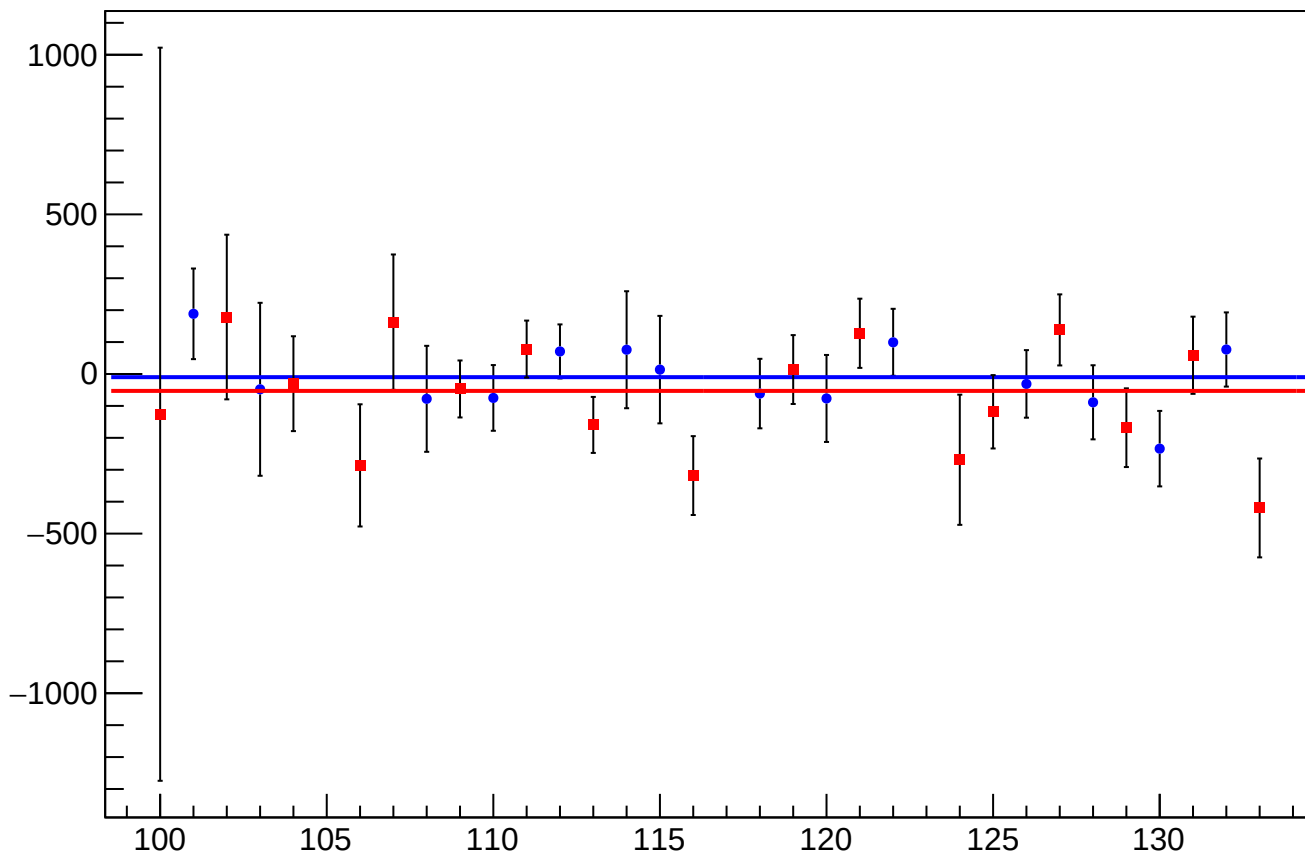
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1014.865+/-0.208  $\chi^2/\text{NDF}$ : 1320574.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_37\_avg\_mean vs Slug



Right In:  $-9.905 \pm 32.675$   $\chi^2/\text{NDF}$ : 9.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-52.965 \pm 30.364$   $\chi^2/\text{NDF}$ : 26.5/16

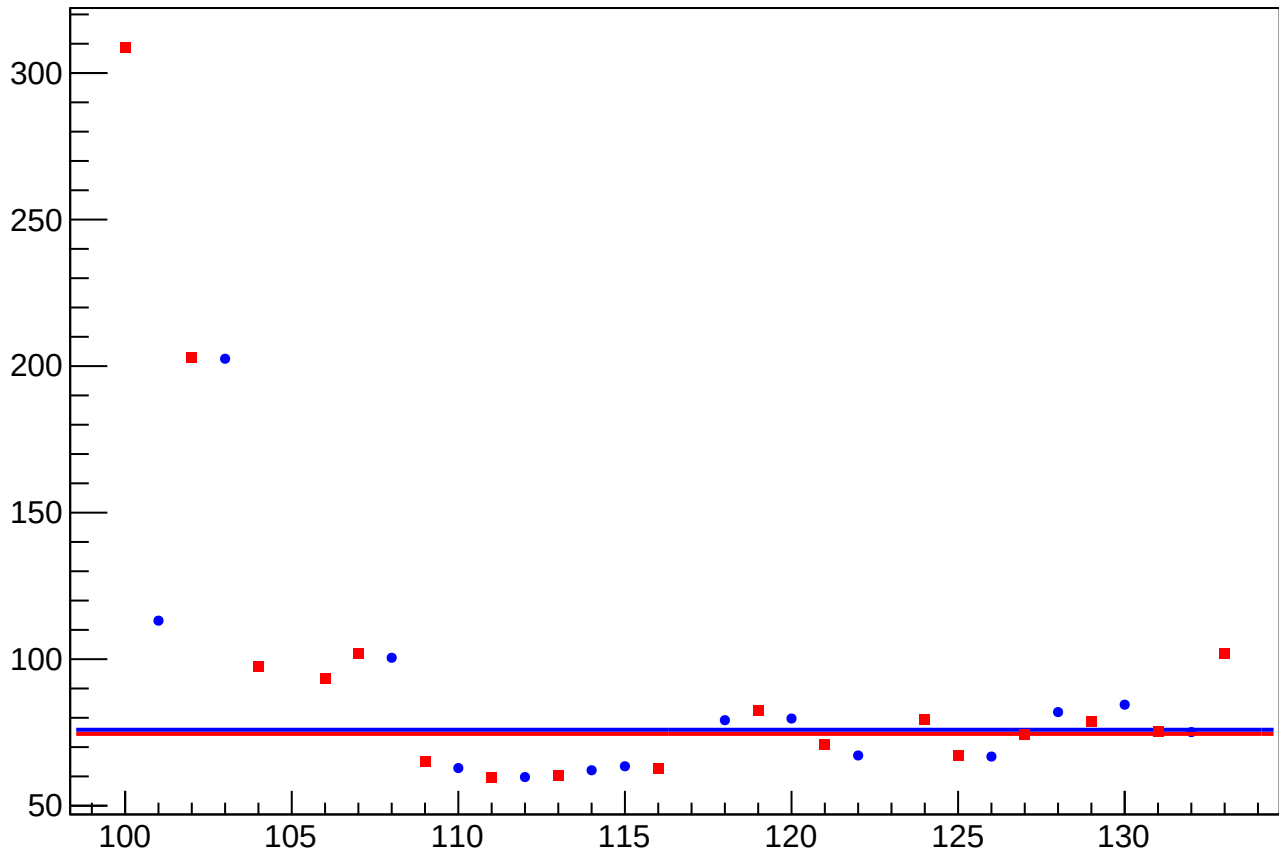
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-33.012 \pm 22.243$   $\chi^2/\text{NDF}$ : 37.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 75.918+/-0.023  $\chi^2/\text{NDF}$ : 793519.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 74.504+/-0.021  $\chi^2/\text{NDF}$ : 914925.4/16

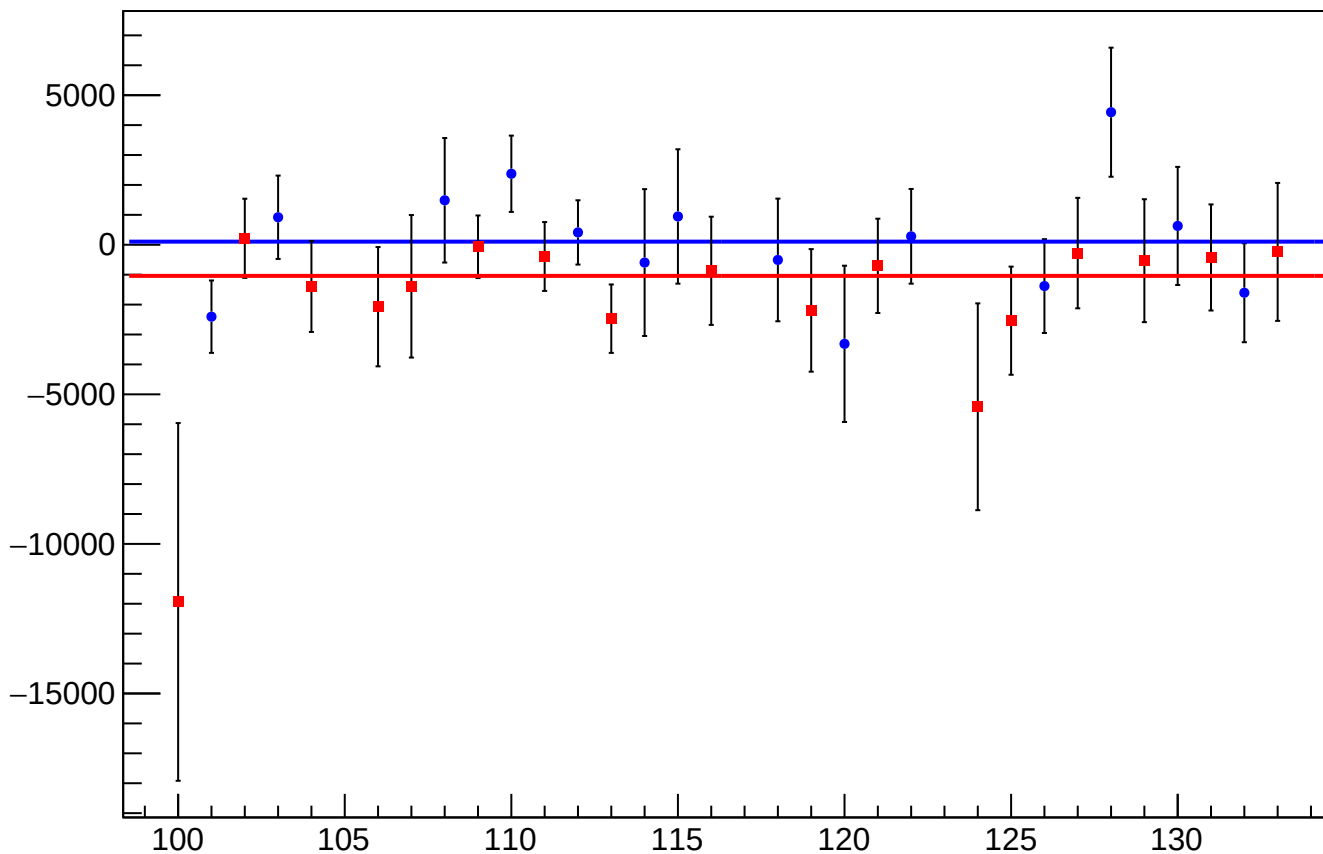
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.159+/-0.016  $\chi^2/\text{NDF}$ : 1710453.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_avg\_cor\_correction\_mean vs Slug



Right In: 104.444 $\pm$ 434.303  $\chi^2$ /NDF: 16.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1039.936 $\pm$ 399.460  $\chi^2$ /NDF: 10.4/16

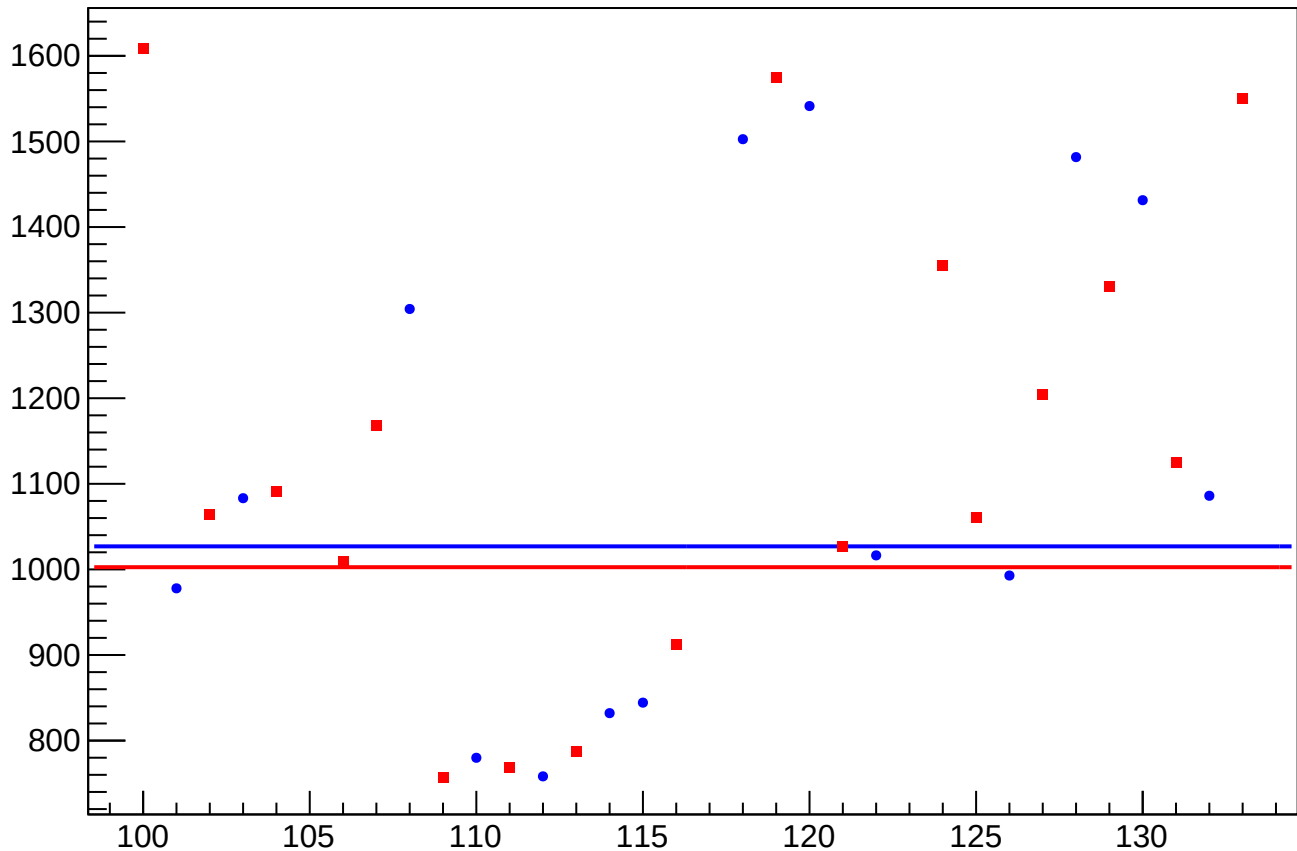
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -515.487 $\pm$ 294.008  $\chi^2$ /NDF: 30.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_avg\_cor\_correction\_rms vs Slug



Right In: 1026.924+/-0.307  $\chi^2/\text{NDF}$ : 629671.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1002.585+/-0.282  $\chi^2/\text{NDF}$ : 686563.3/16

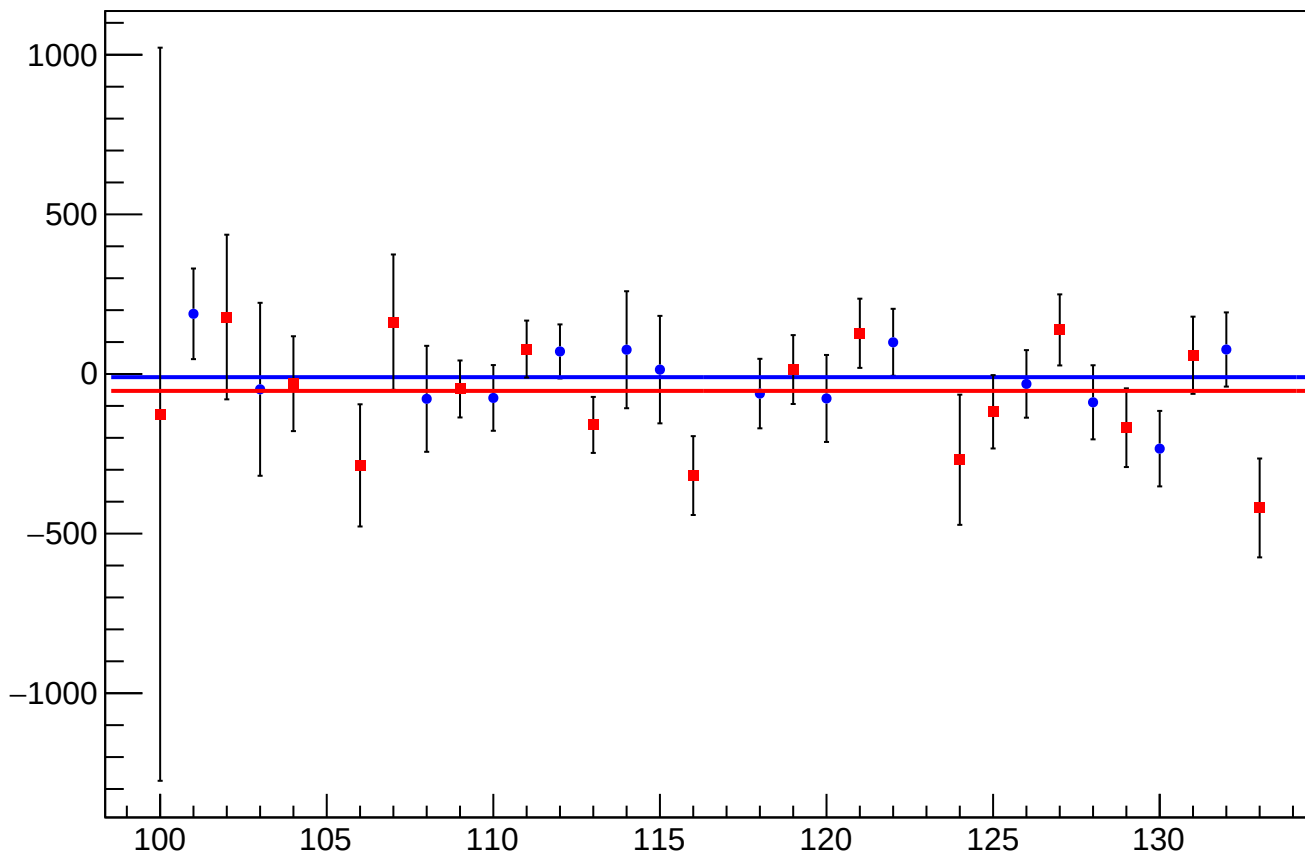
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1013.739+/-0.208  $\chi^2/\text{NDF}$ : 1319637.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_avg\_mean vs Slug



Right In: -9.905+/-32.675  $\chi^2/\text{NDF}$ : 9.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -52.965+/-30.364  $\chi^2/\text{NDF}$ : 26.5/16

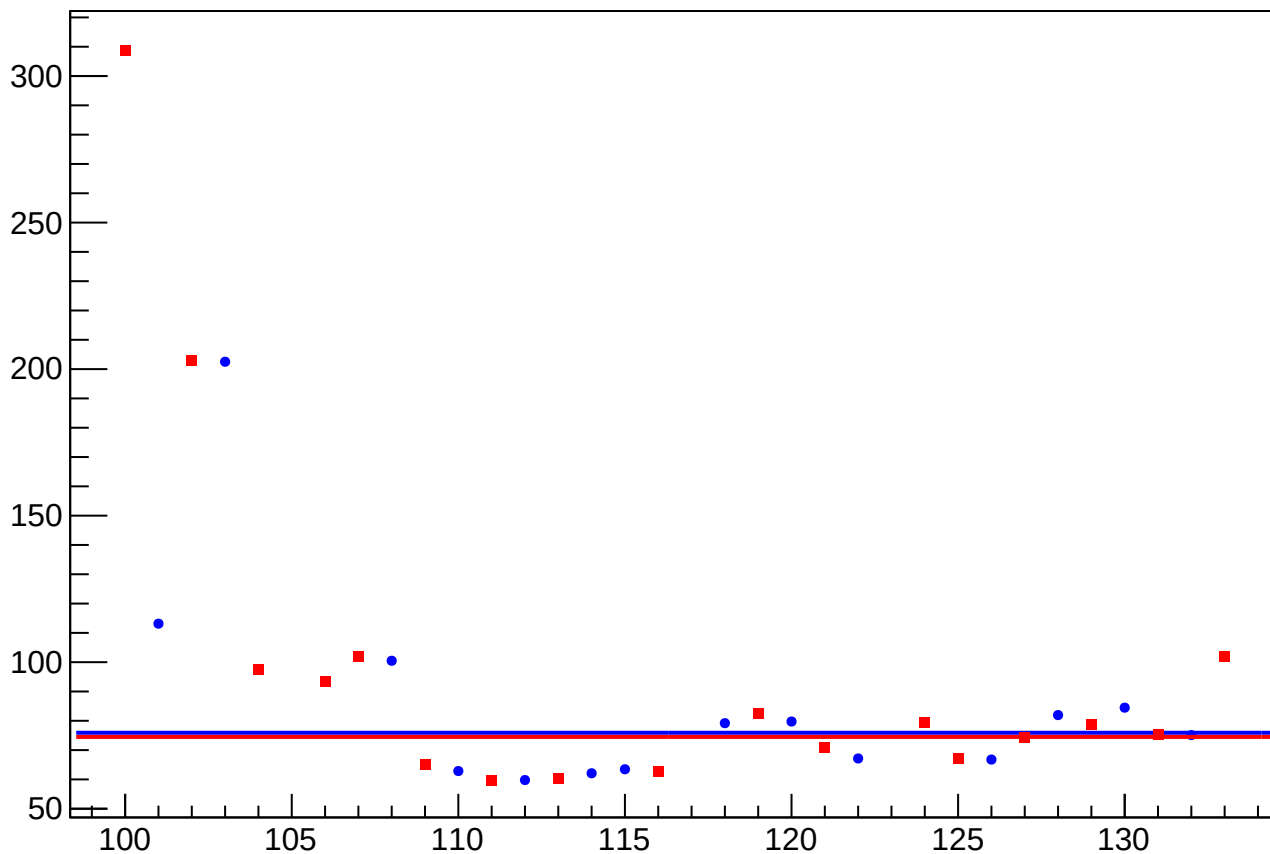
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -33.012+/-22.243  $\chi^2/\text{NDF}$ : 37.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 75.918+/-0.023  $\chi^2/\text{NDF}$ : 793519.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 74.504+/-0.021  $\chi^2/\text{NDF}$ : 914925.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

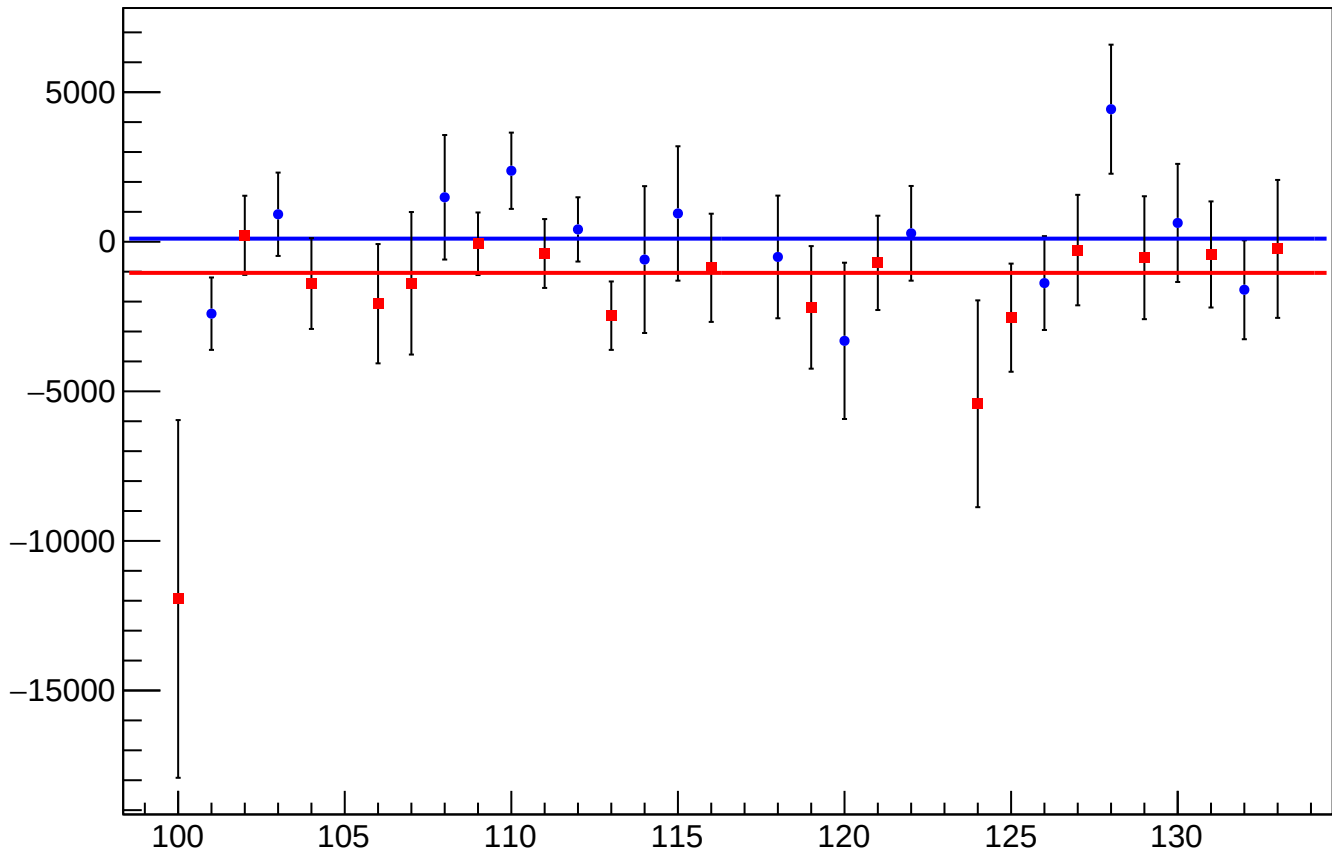
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.159+/-0.016  $\chi^2/\text{NDF}$ : 1710453.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 104.444+/-434.303  $\chi^2/\text{NDF}$ : 16.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1039.936+/-399.460  $\chi^2/\text{NDF}$ : 10.4/16

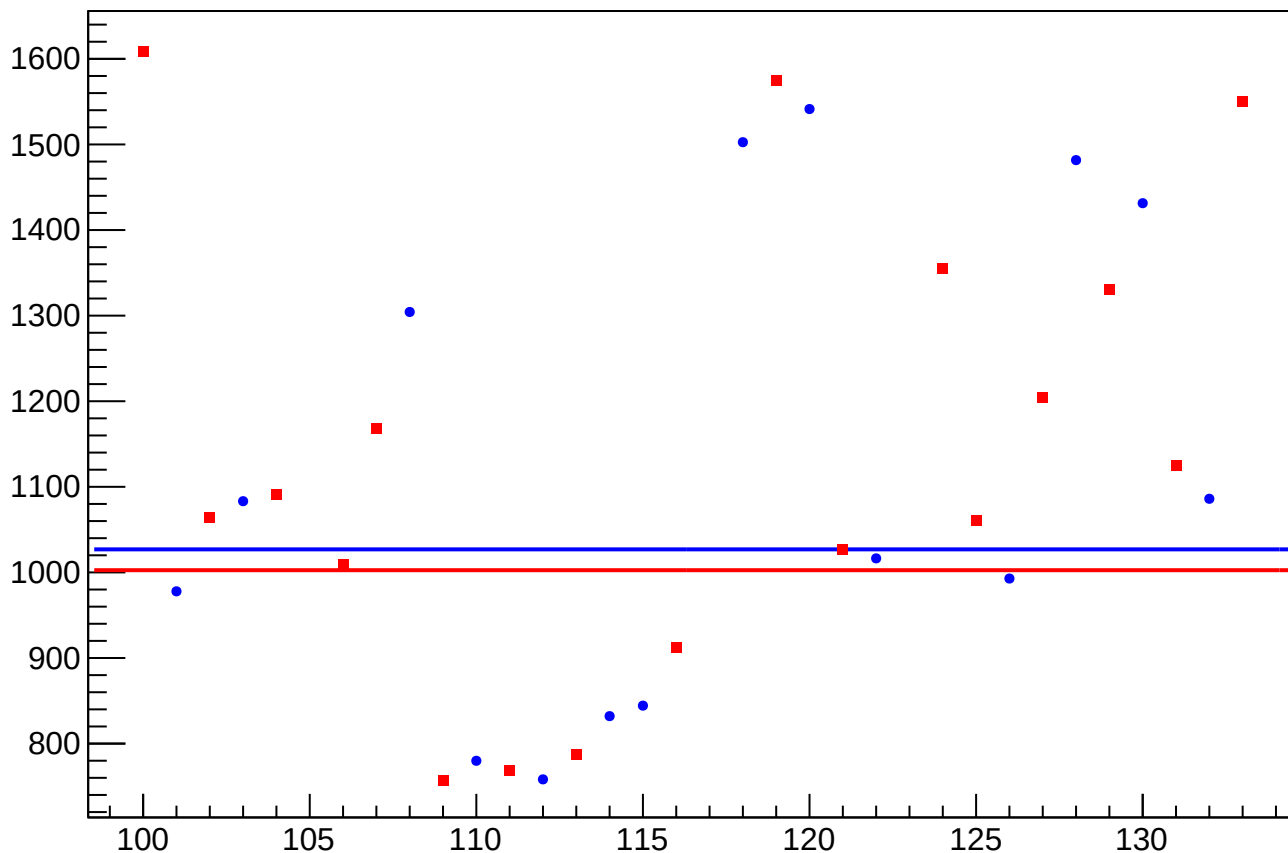
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -515.487+/-294.008  $\chi^2/\text{NDF}$ : 30.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1026.924+/-0.307  $\chi^2/\text{NDF}$ : 629671.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1002.585+/-0.282  $\chi^2/\text{NDF}$ : 686563.3/16

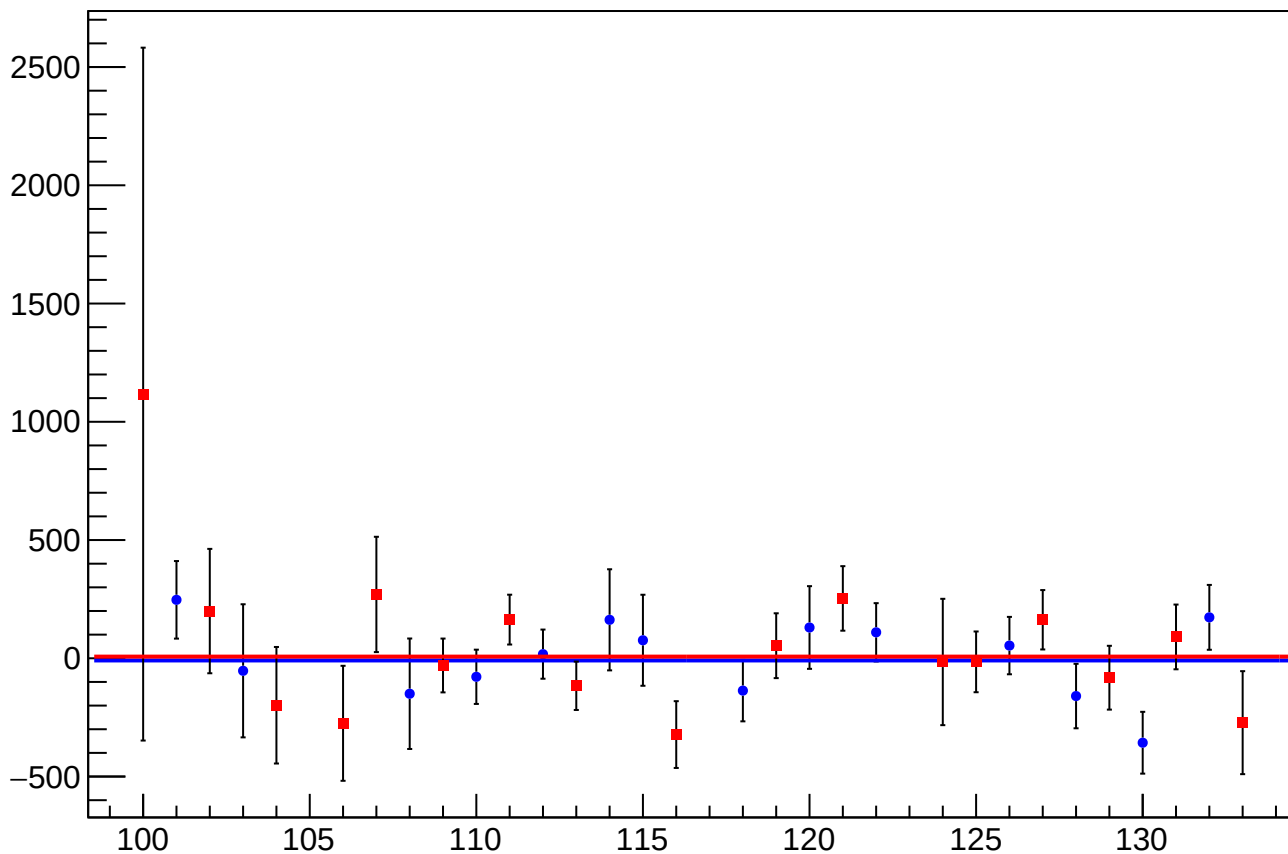
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1013.739+/-0.208  $\chi^2/\text{NDF}$ : 1319637.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_avg\_mean vs Slug



Right In: -9.150+/-38.437  $\chi^2/\text{NDF}$ : 17.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.078+/-36.451  $\chi^2/\text{NDF}$ : 20.9/16

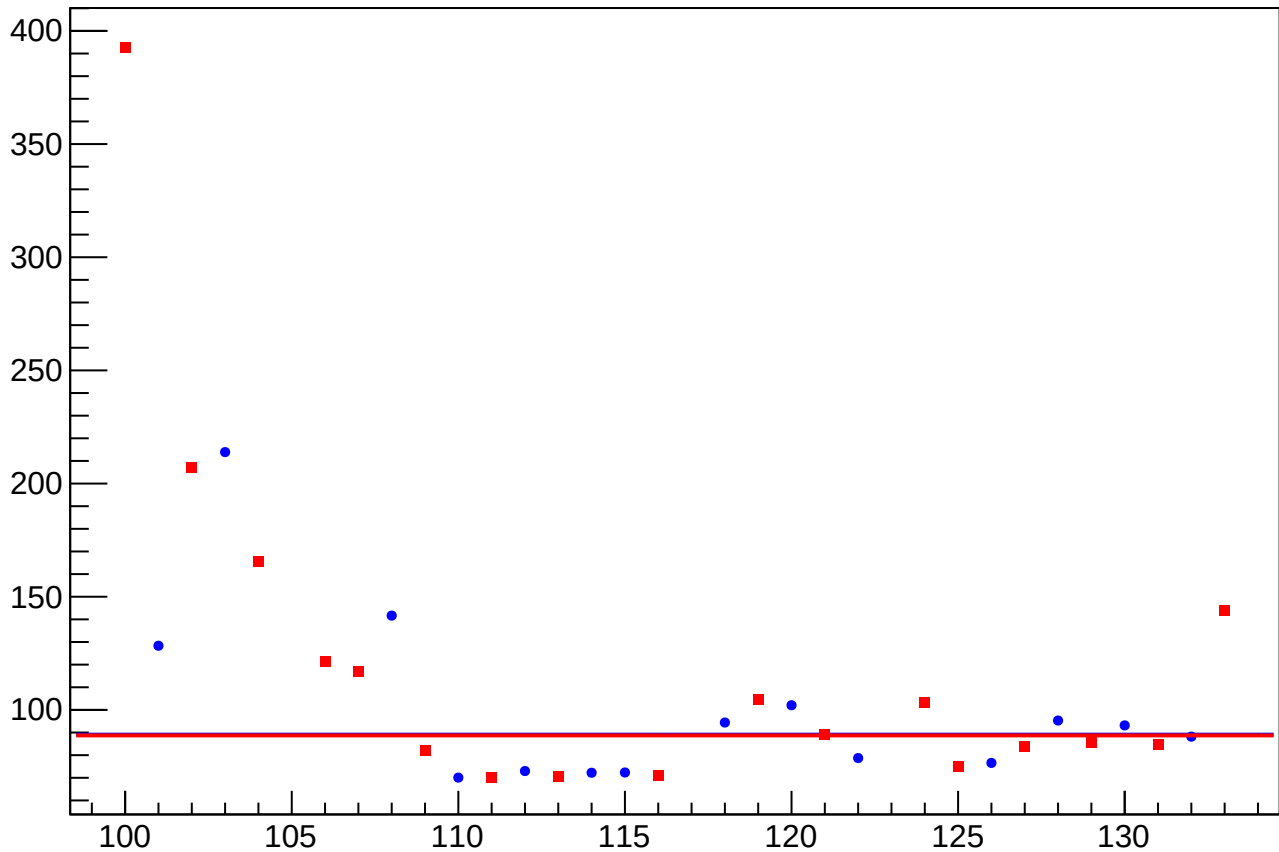
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.606+/-26.449  $\chi^2/\text{NDF}$ : 38.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 89.054+/-0.027  $\chi^2/\text{NDF}$ : 795842.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 88.731+/-0.026  $\chi^2/\text{NDF}$ : 1103905.7/16

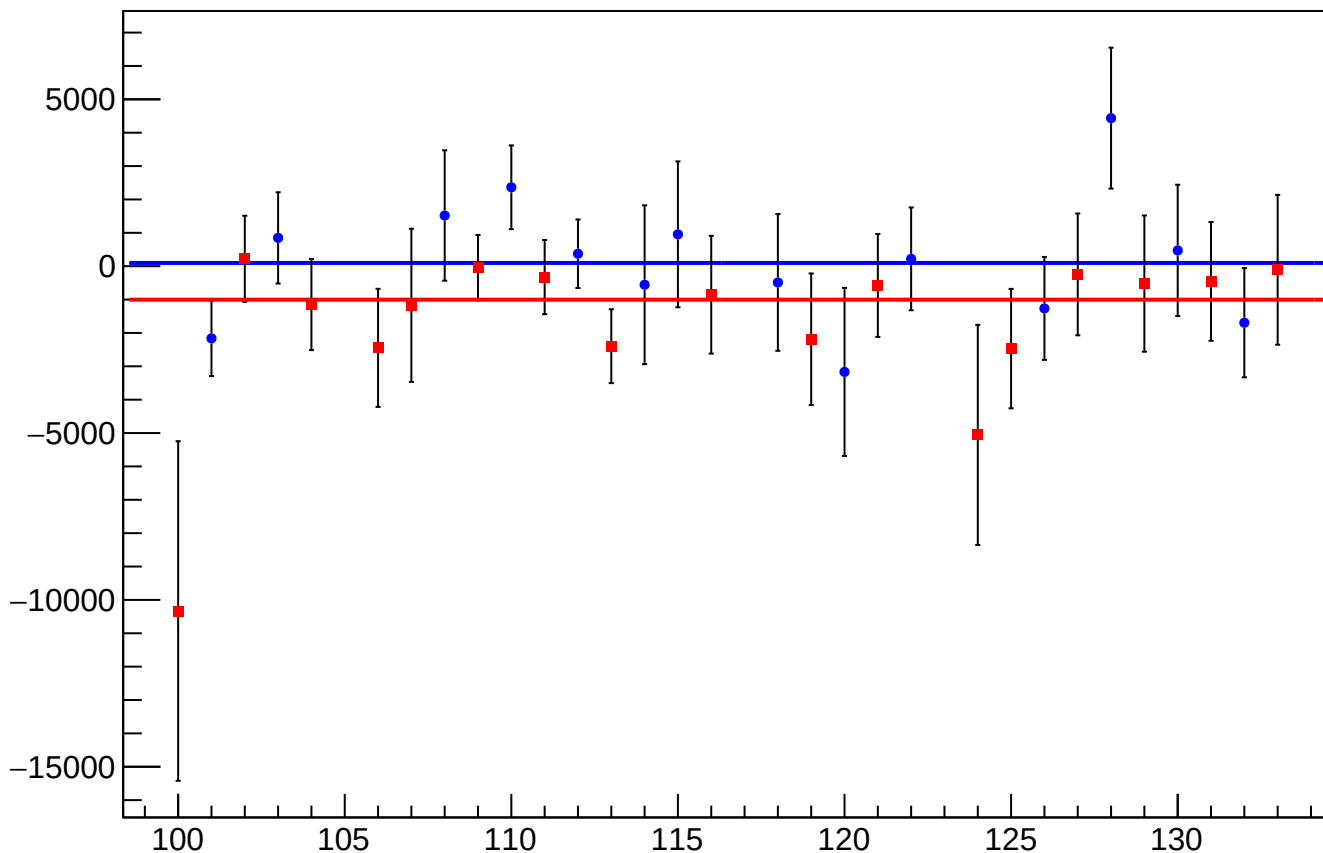
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 88.884+/-0.019  $\chi^2/\text{NDF}$ : 1899823.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_avg\_dit\_correction\_mean vs Slug



Right In: 97.232+/-420.915  $\chi^2/\text{NDF}$ : 16.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1002.946+/-383.106  $\chi^2/\text{NDF}$ : 11.0/16

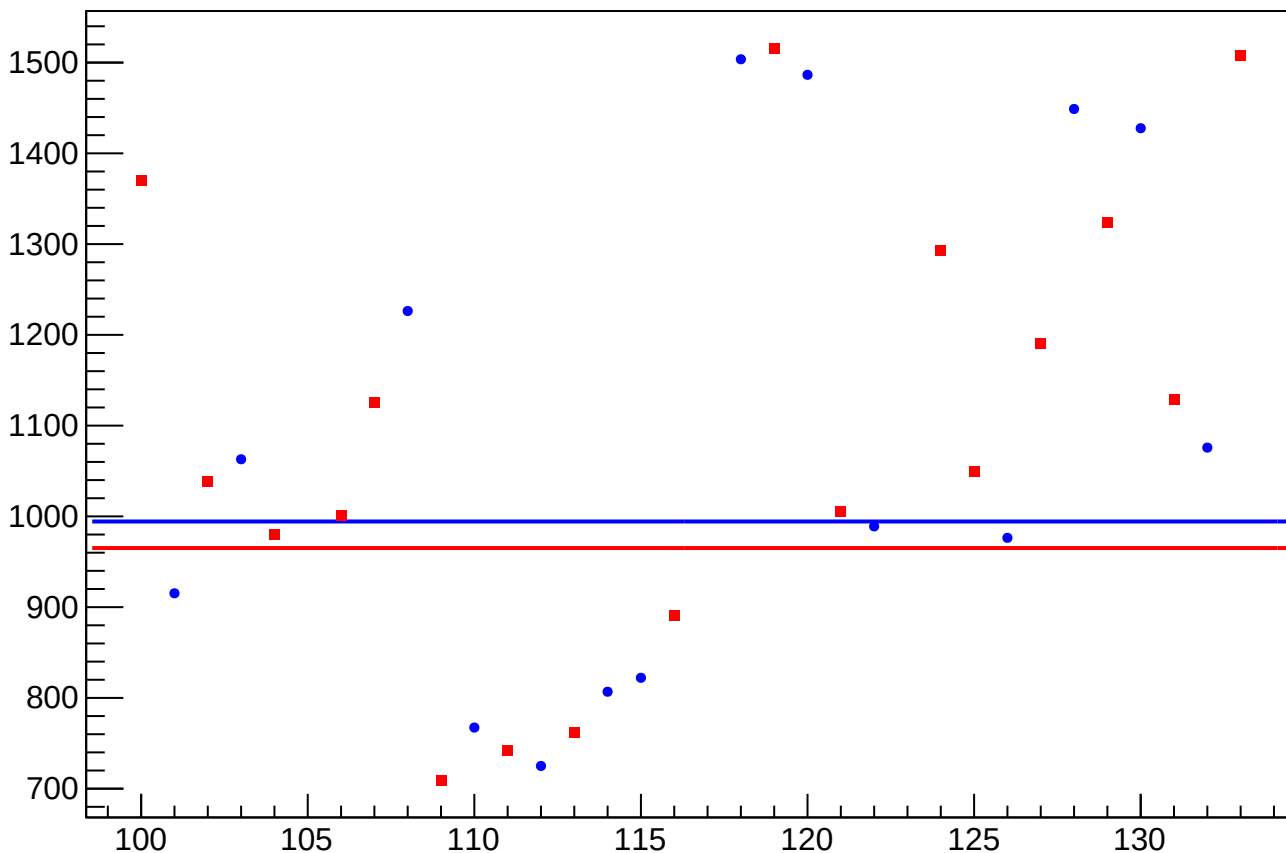
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -504.479+/-283.323  $\chi^2/\text{NDF}$ : 31.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_dit\_correction\_rms vs Slug



Right In: 994.389+/-0.298  $\chi^2/\text{NDF}$ : 665869.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 965.111+/-0.271  $\chi^2/\text{NDF}$ : 725665.1/16

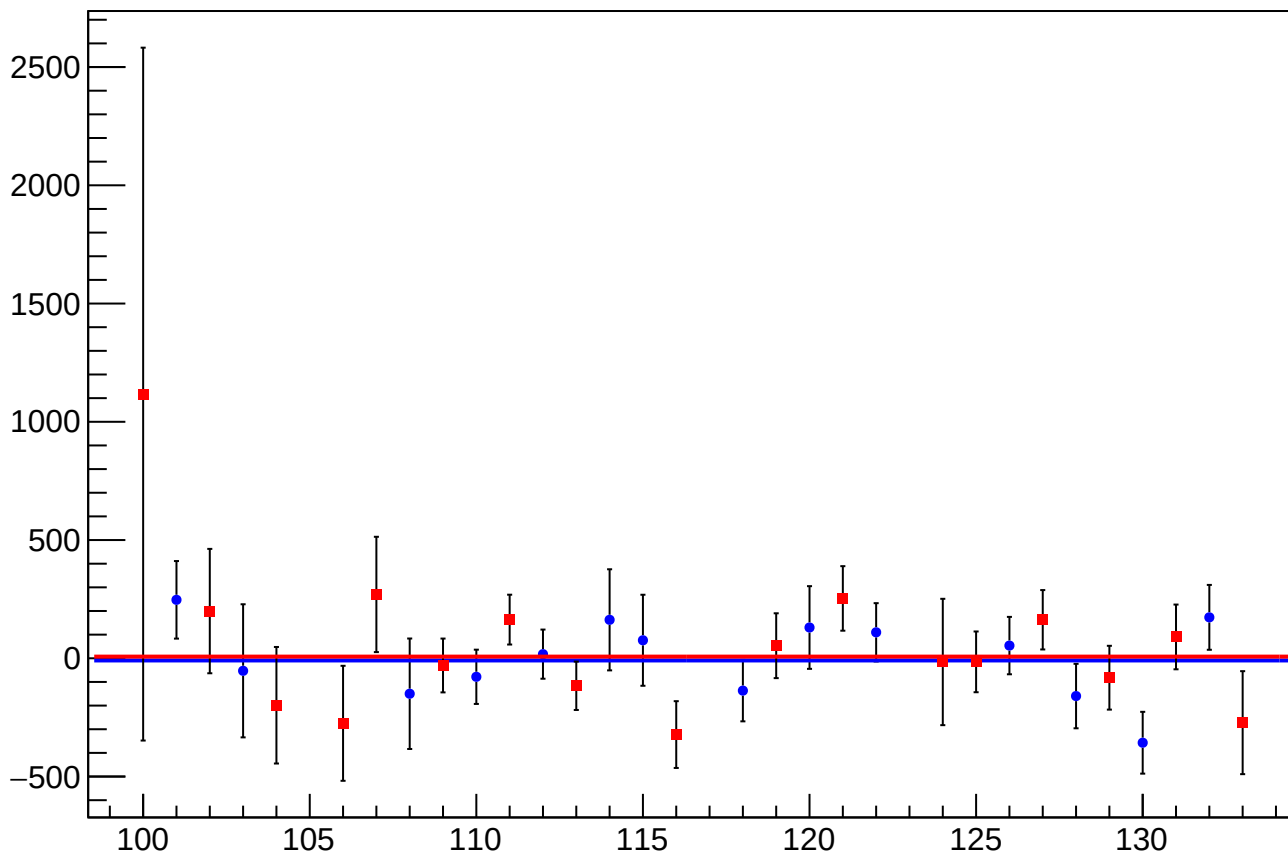
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 978.376+/-0.200  $\chi^2/\text{NDF}$ : 1396827.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_37\_avg\_mean vs Slug



Right In: -9.151+/-38.437  $\chi^2/\text{NDF}$ : 17.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.081+/-36.451  $\chi^2/\text{NDF}$ : 20.9/16

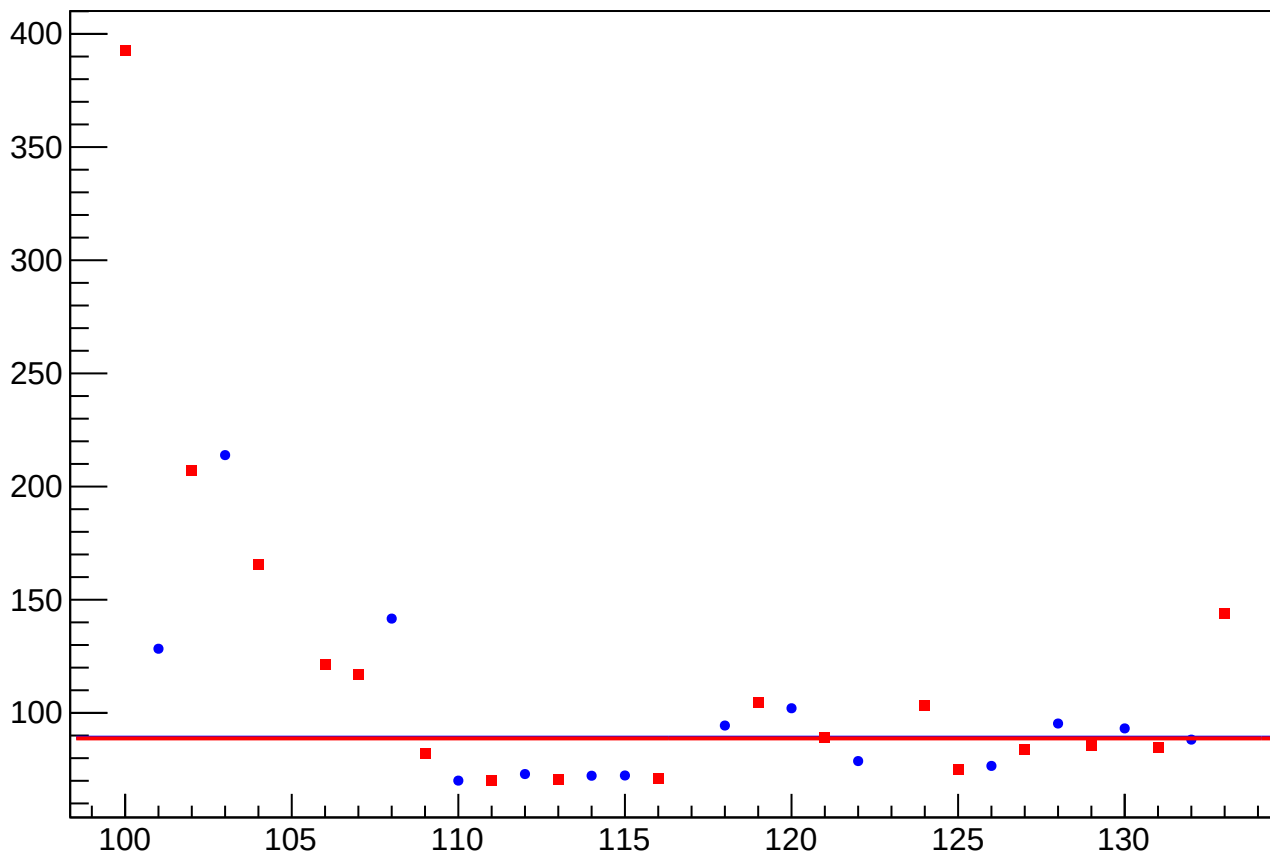
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.605+/-26.449  $\chi^2/\text{NDF}$ : 38.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 89.055+/-0.027  $\chi^2/\text{NDF}$ : 795827.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 88.731+/-0.026  $\chi^2/\text{NDF}$ : 1103899.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

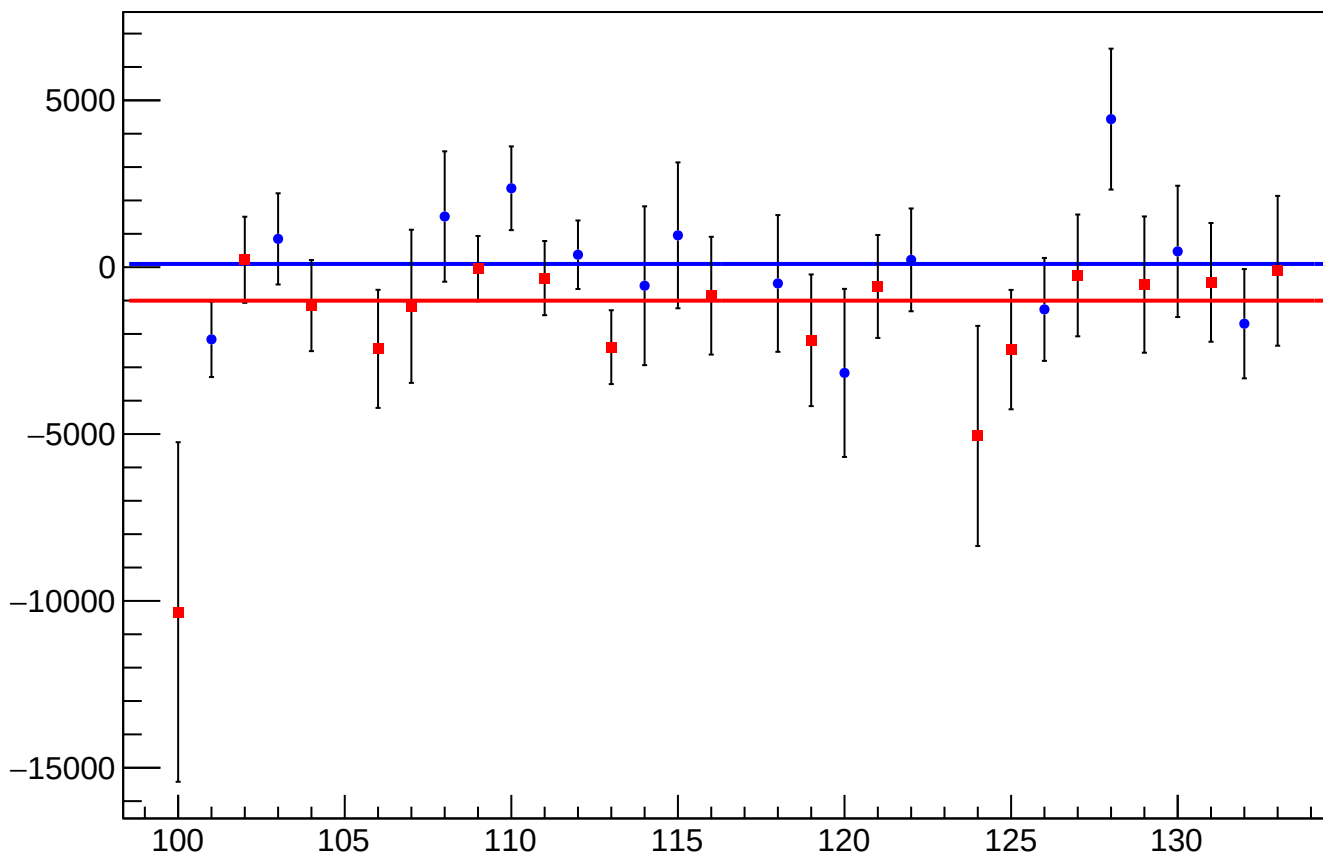
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 88.884+/-0.019  $\chi^2/\text{NDF}$ : 1899801.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 97.232+/-420.914  $\chi^2/\text{NDF}$ : 16.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1002.944+/-383.105  $\chi^2/\text{NDF}$ : 11.0/16

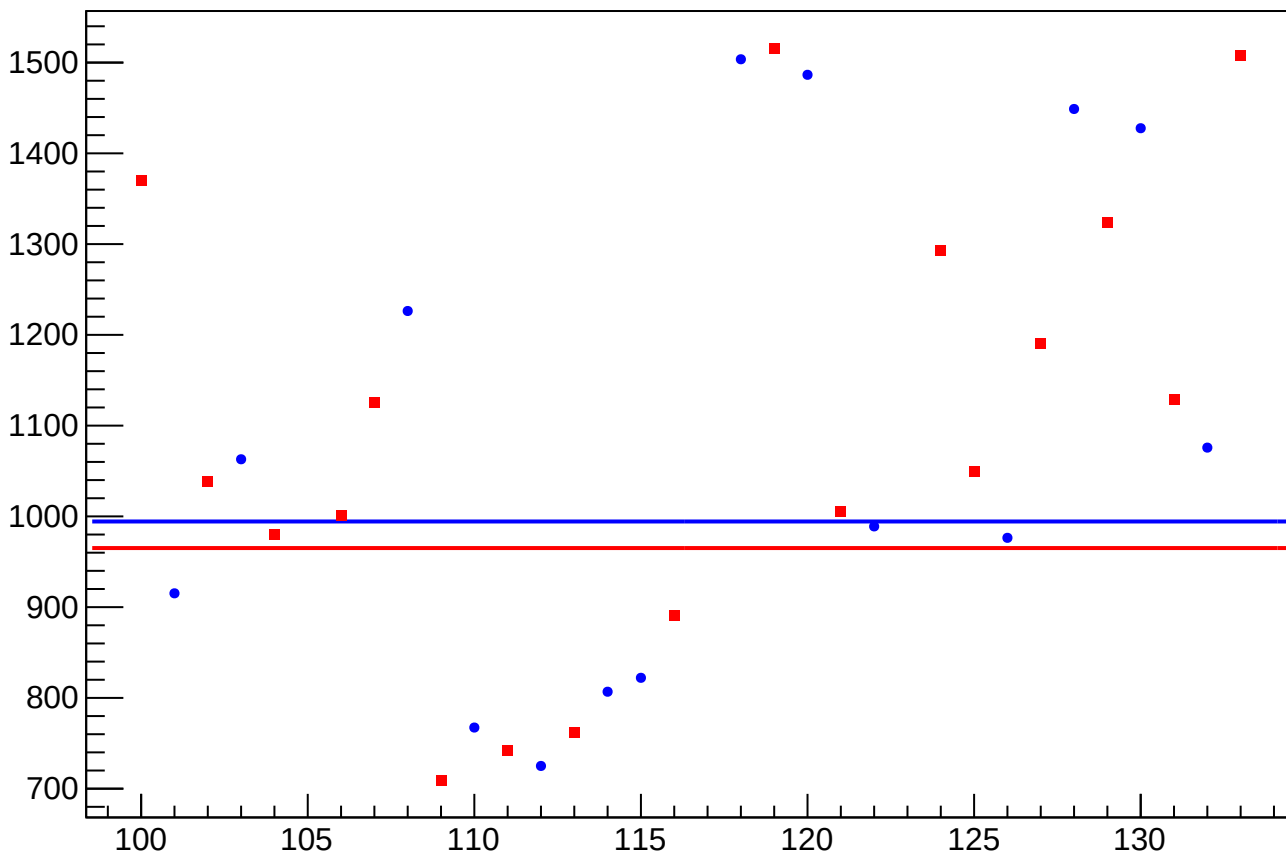
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -504.477+/-283.322  $\chi^2/\text{NDF}$ : 31.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 994.387+/-0.298  $\chi^2/\text{NDF}$ : 665874.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 965.109+/-0.271  $\chi^2/\text{NDF}$ : 725665.5/16

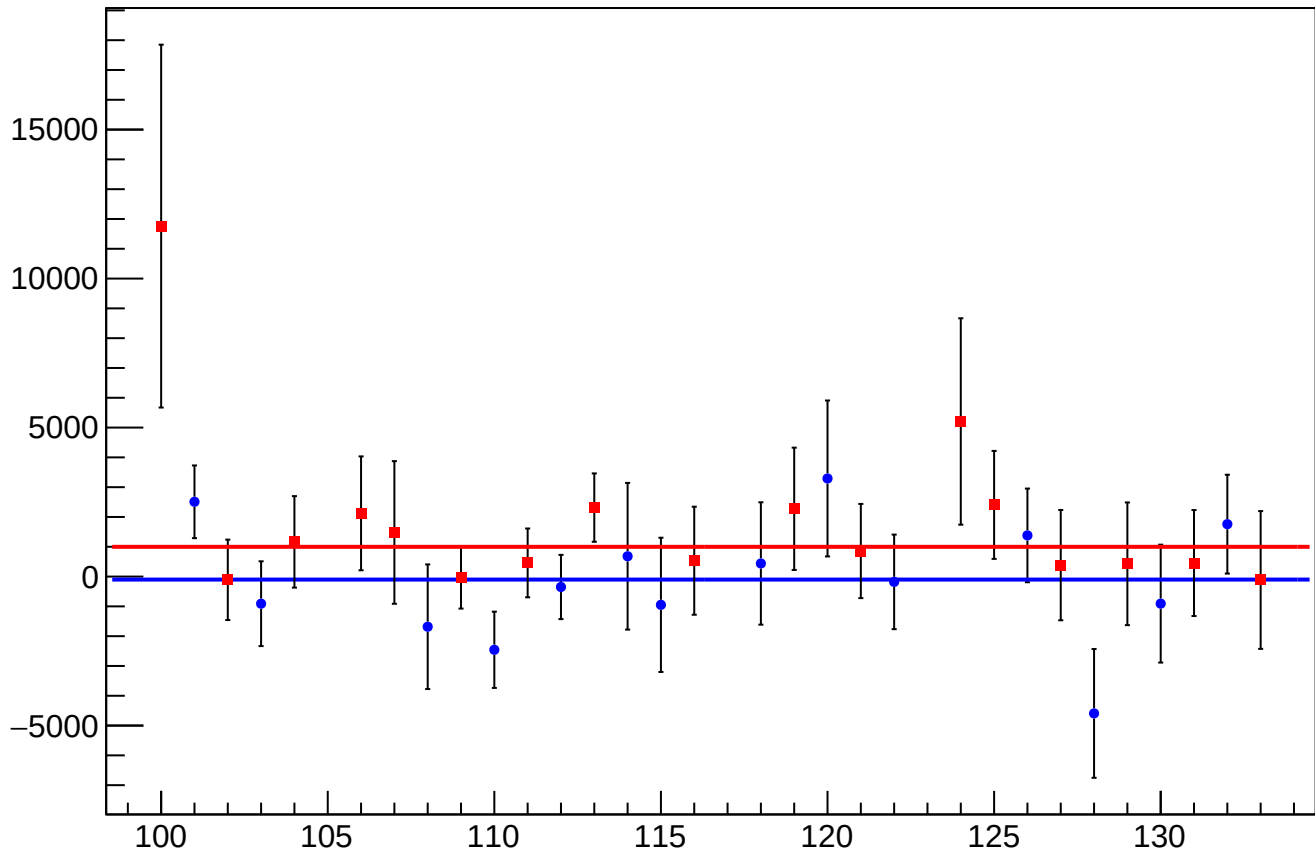
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 978.374+/-0.200  $\chi^2/\text{NDF}$ : 1396832.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_mean vs Slug



Right In:  $-100.421 \pm 436.561$   $\chi^2/\text{NDF}$ : 17.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $998.459 \pm 400.687$   $\chi^2/\text{NDF}$ : 9.7/16

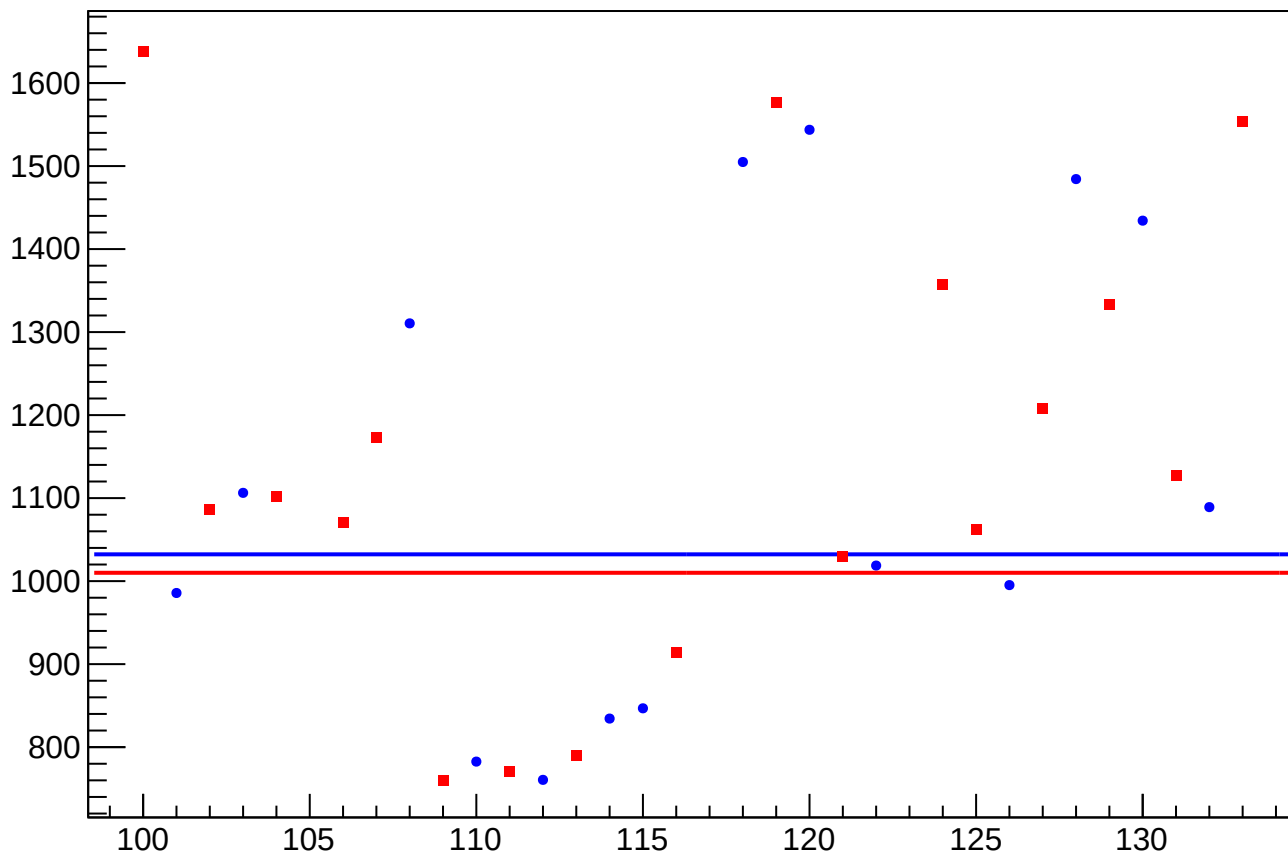
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $496.017 \pm 295.198$   $\chi^2/\text{NDF}$ : 30.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_rms vs Slug



Right In: 1032.271+/-0.309  $\chi^2/\text{NDF}$ : 629583.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1010.038+/-0.283  $\chi^2/\text{NDF}$ : 691317.9/16

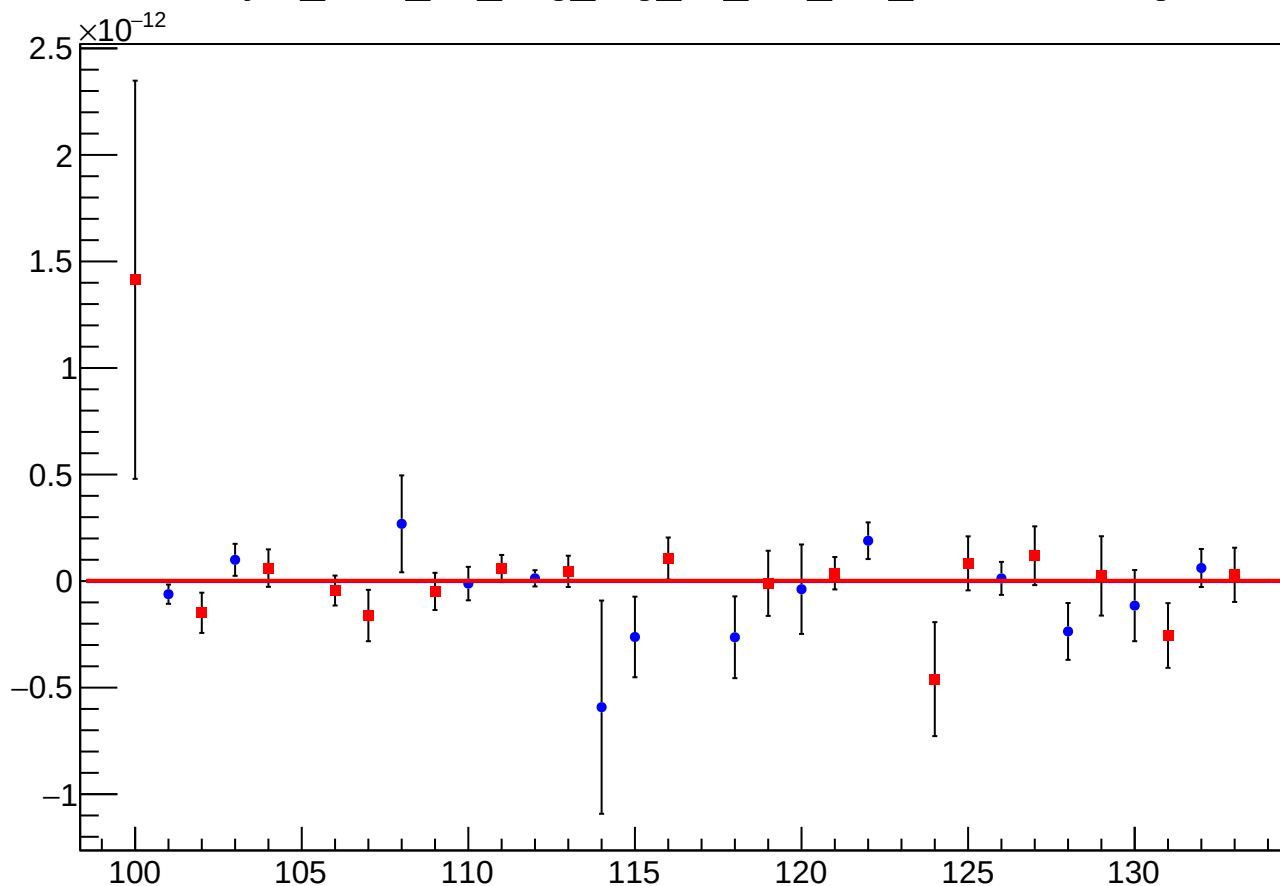
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1020.204+/-0.209  $\chi^2/\text{NDF}$ : 1323717.2/30

- 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: 19.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.4/16

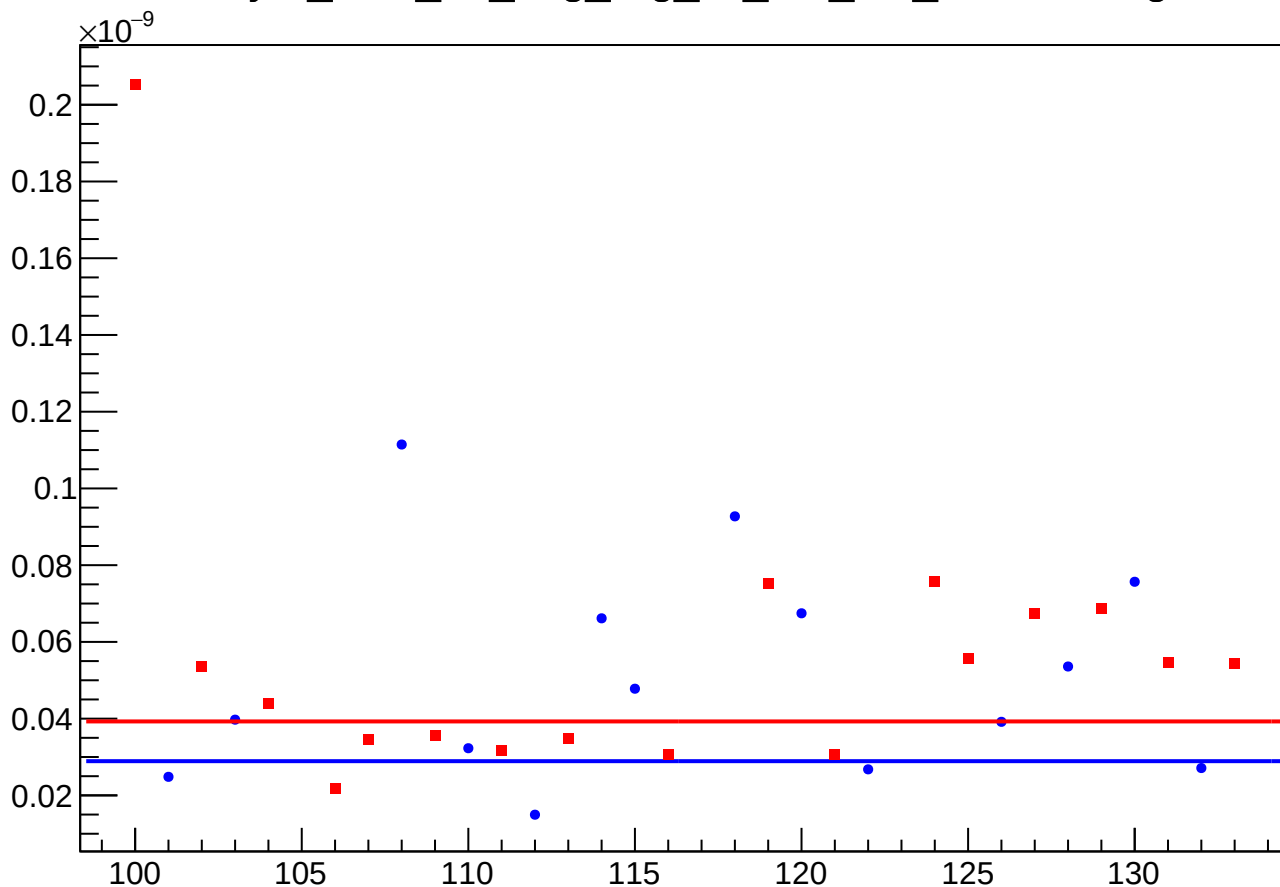
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 36.8/30

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 1175579.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 684986.2/16

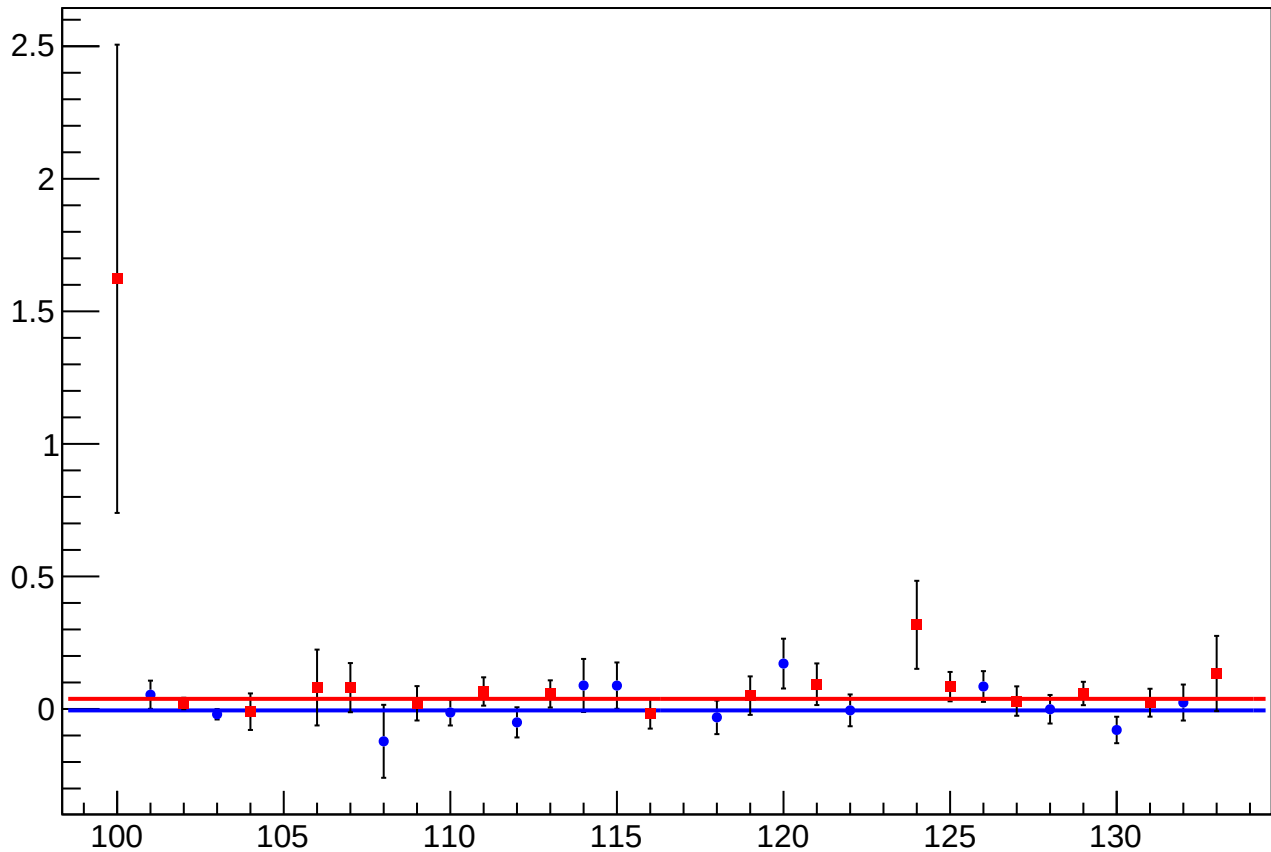
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2060904.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.005±/0.013  $\chi^2/\text{NDF}$ : 13.7/13

Left Out: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.038±/0.013  $\chi^2/\text{NDF}$ : 10.9/16

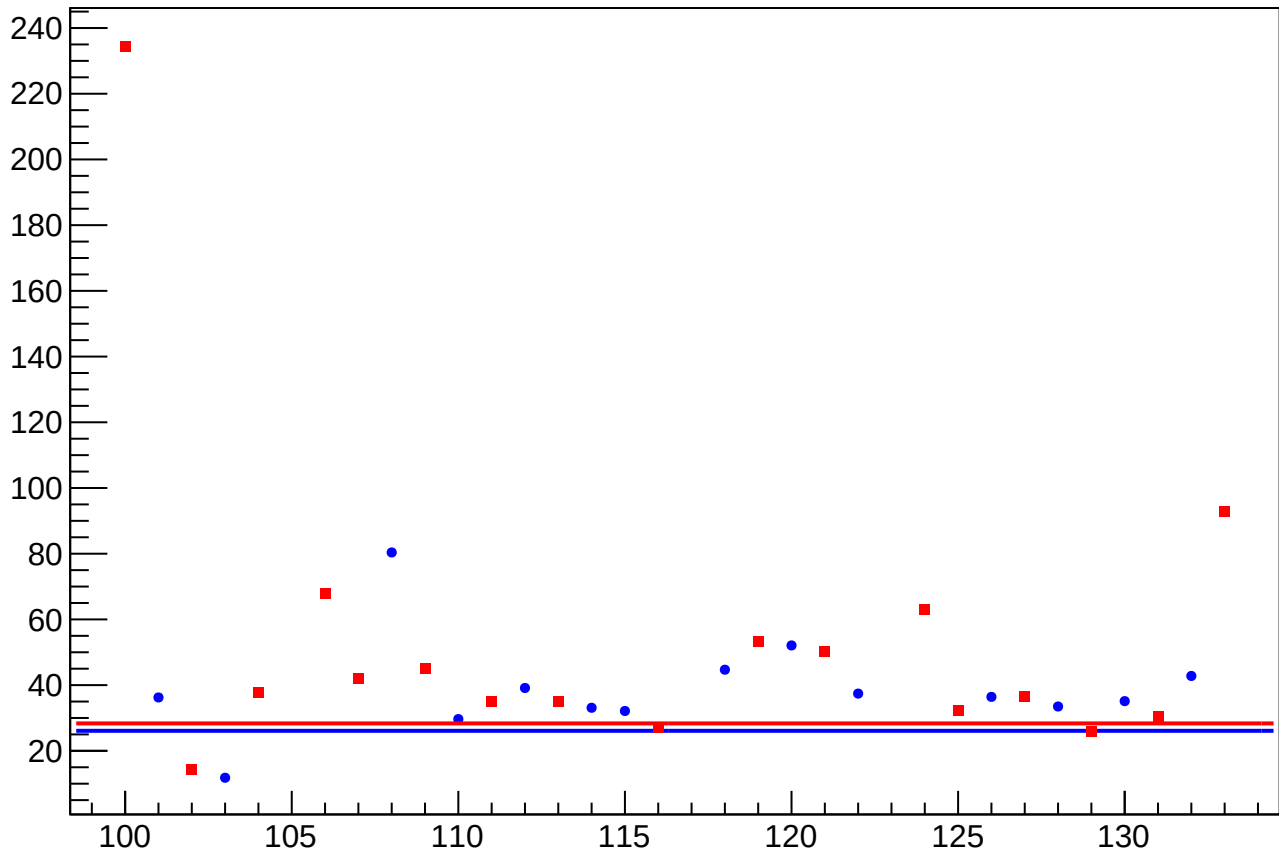
Left In: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016±/0.009  $\chi^2/\text{NDF}$ : 30.2/30

- sign 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 26.096+/-0.009  $\chi^2$ /NDF: 2262244.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 28.347+/-0.009  $\chi^2$ /NDF: 2353583.0/16

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

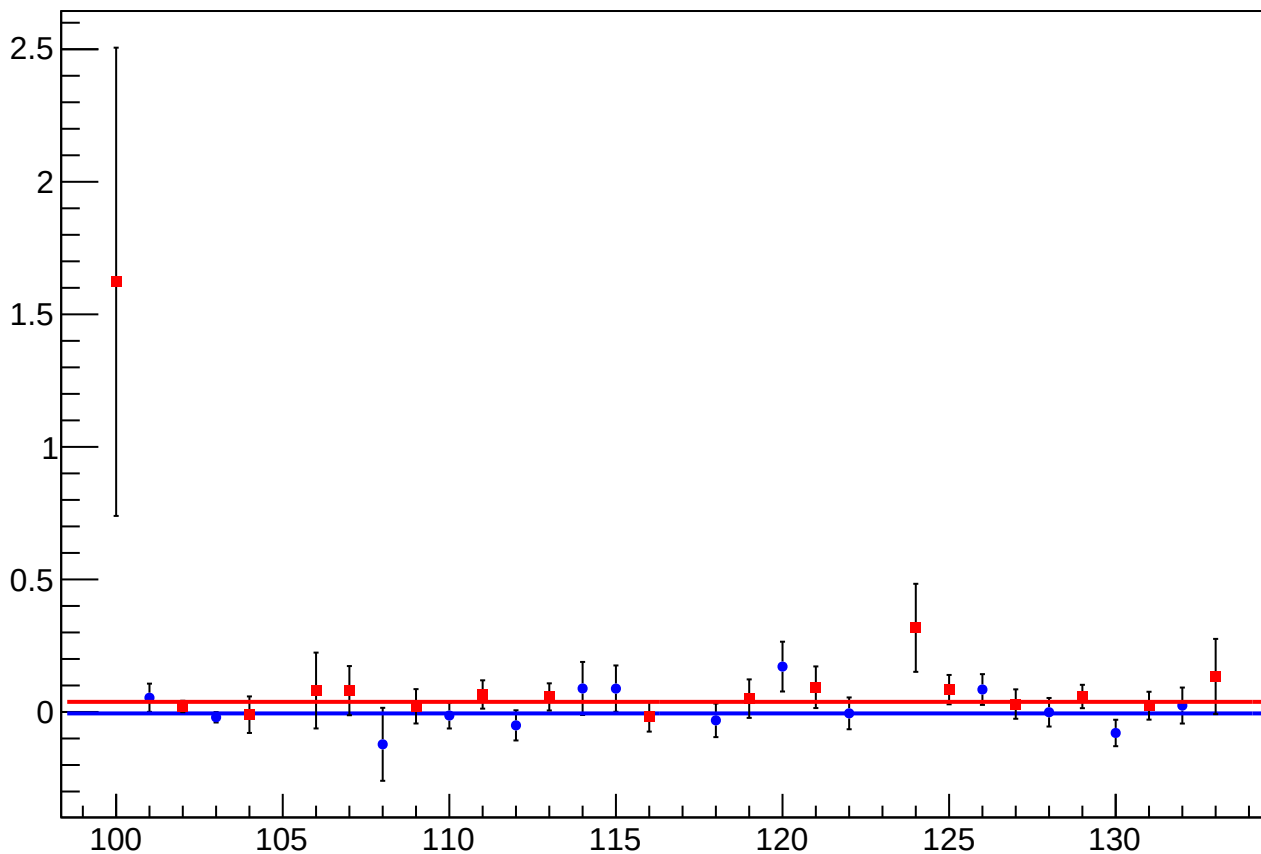
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 27.214+/-0.007  $\chi^2$ /NDF: 4645324.8/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.005 $\pm$ 0.013  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.038 $\pm$ 0.013  $\chi^2$ /NDF: 10.9/16

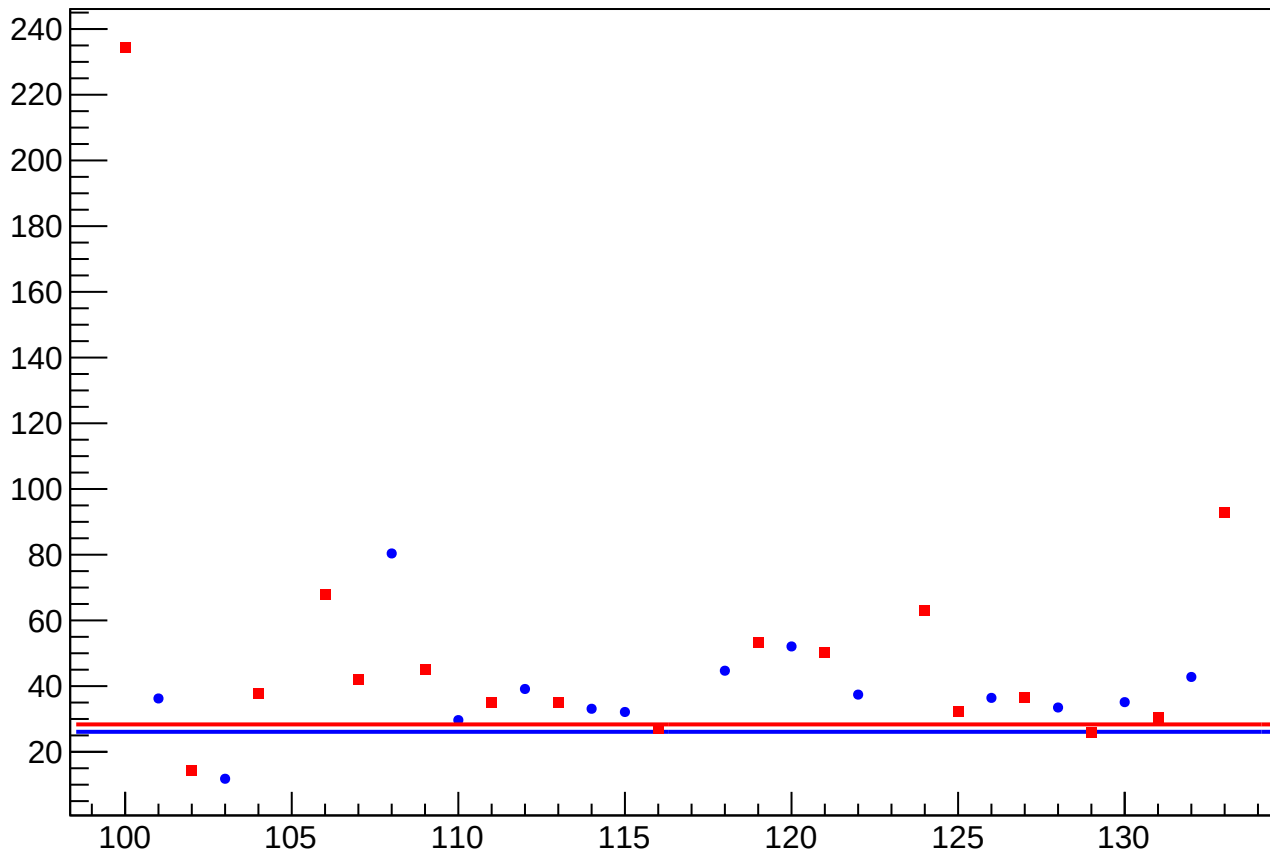
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.009  $\chi^2$ /NDF: 30.2/30

- 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: 26.096+/-0.009  $\chi^2/\text{NDF}$ : 2262244.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.347+/-0.009  $\chi^2/\text{NDF}$ : 2353583.0/16

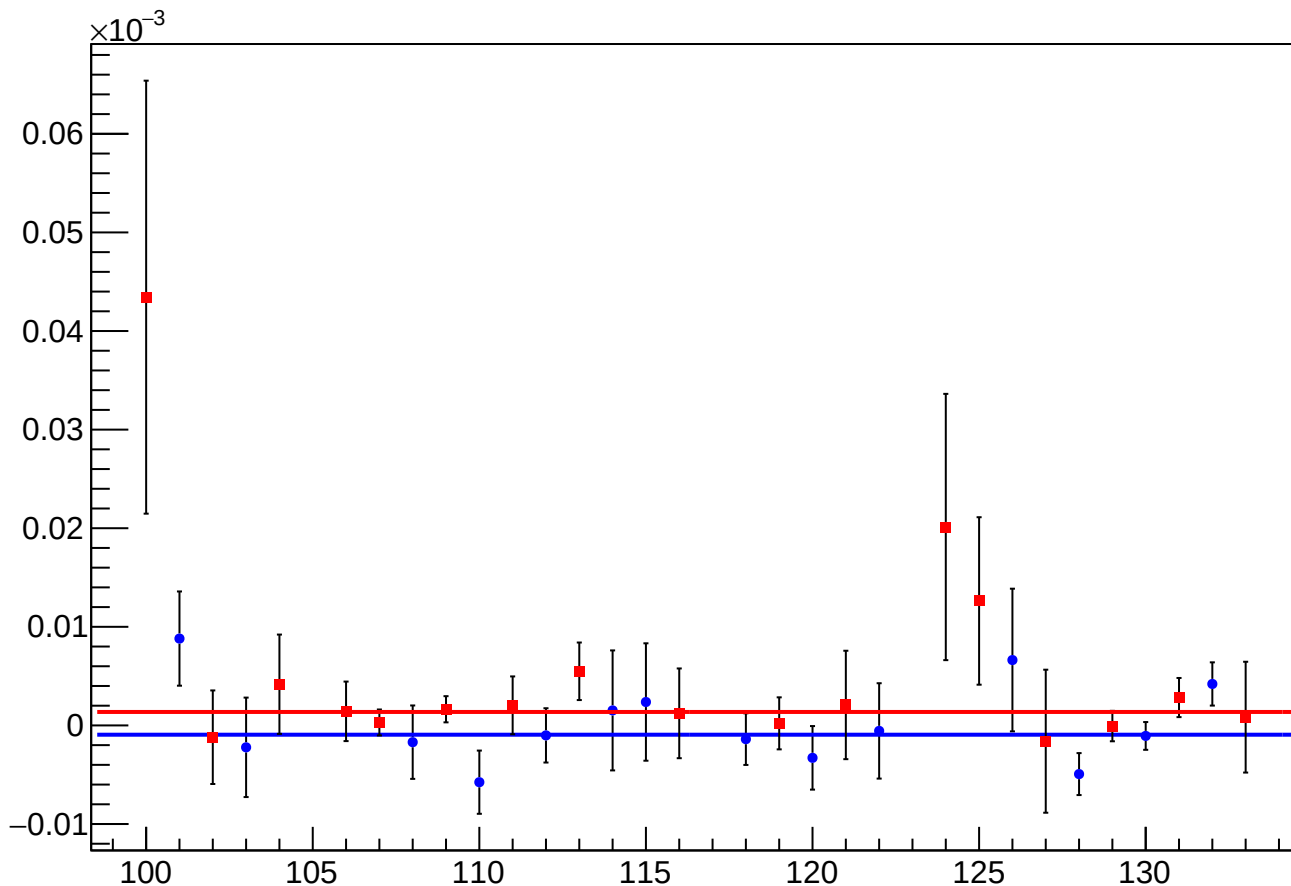
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.214+/-0.007  $\chi^2/\text{NDF}$ : 4645324.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.5/16

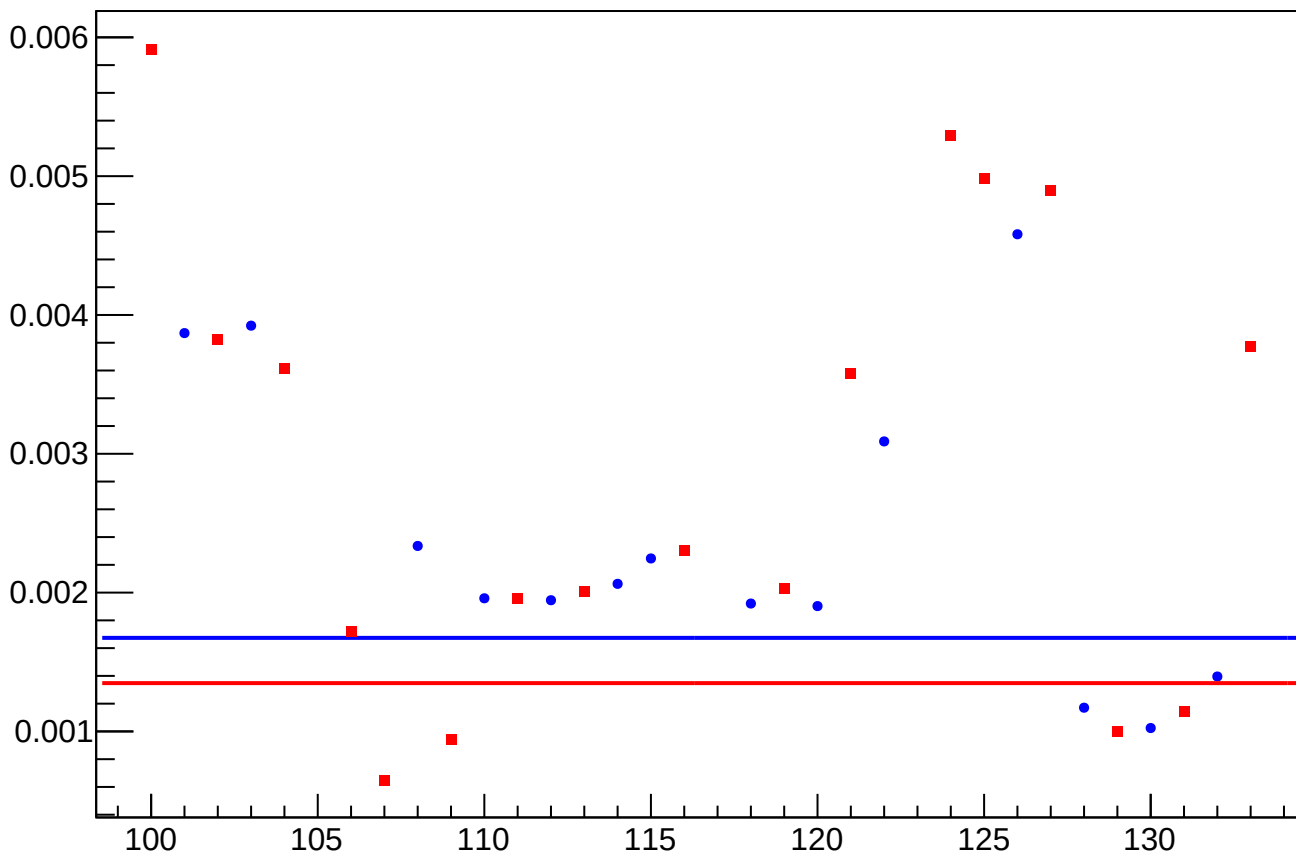
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 35.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2036767.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4074207.0/16

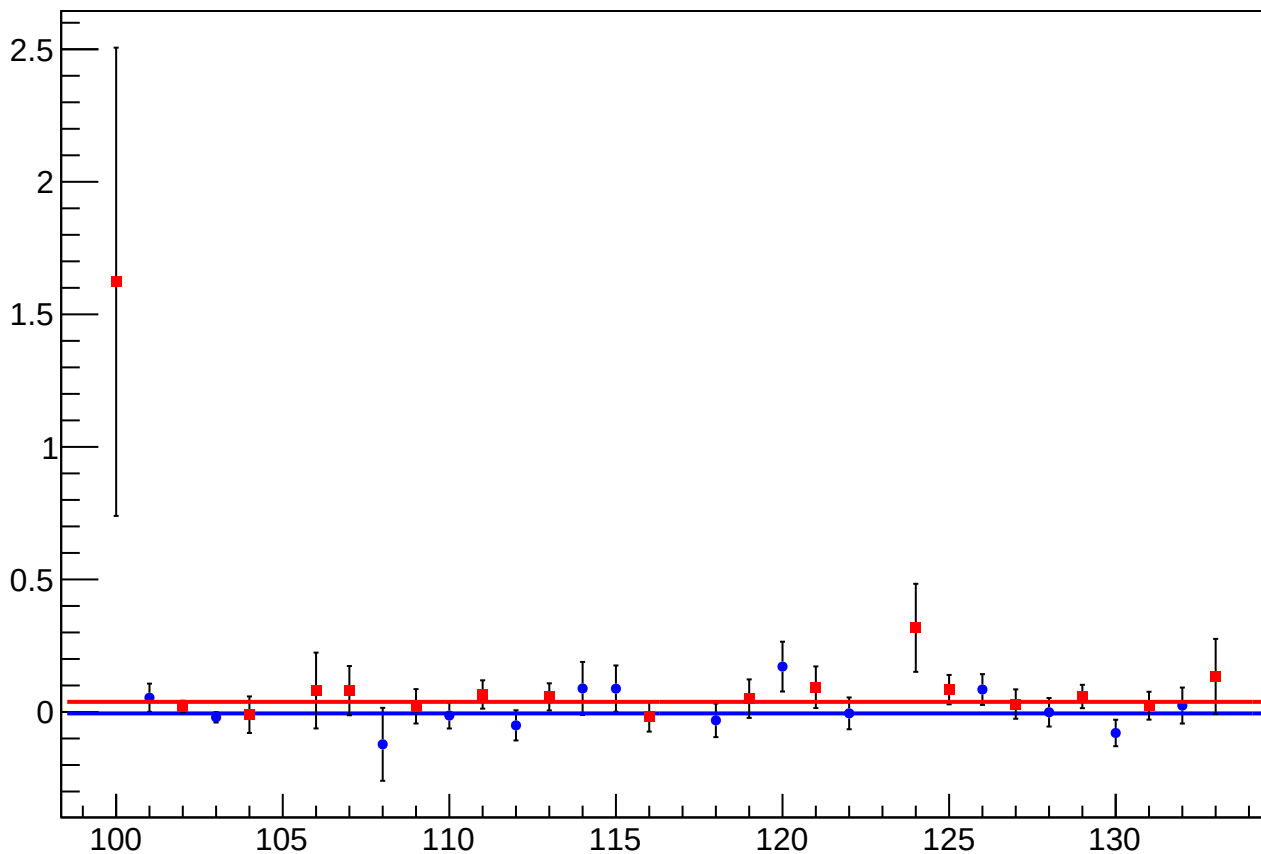
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 6325822.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.005±/-0.013  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.038±/-0.013  $\chi^2$ /NDF: 10.9/16

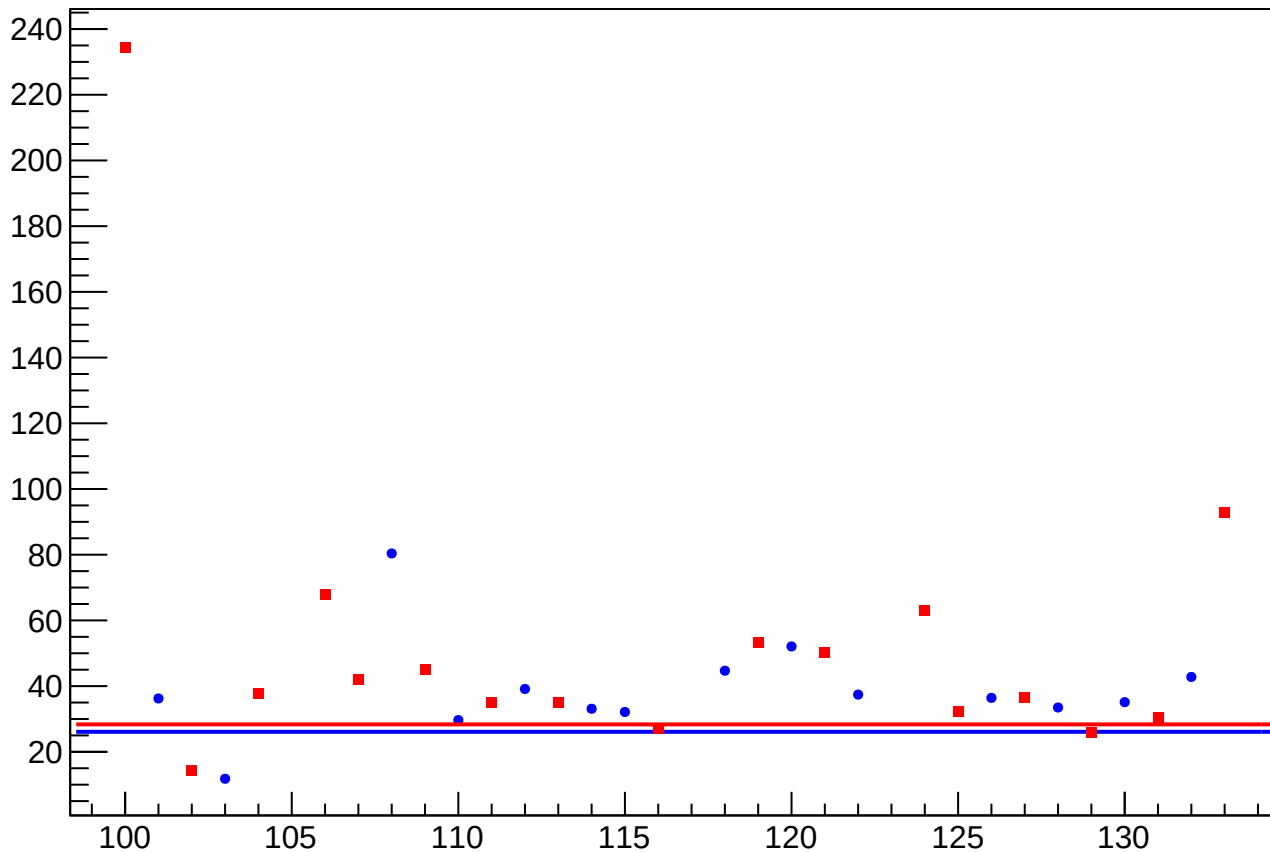
Left In: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016±/-0.009  $\chi^2$ /NDF: 30.2/30

- sign 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 26.095+/-0.009  $\chi^2/\text{NDF}$ : 2262572.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.350+/-0.009  $\chi^2/\text{NDF}$ : 2353039.5/16

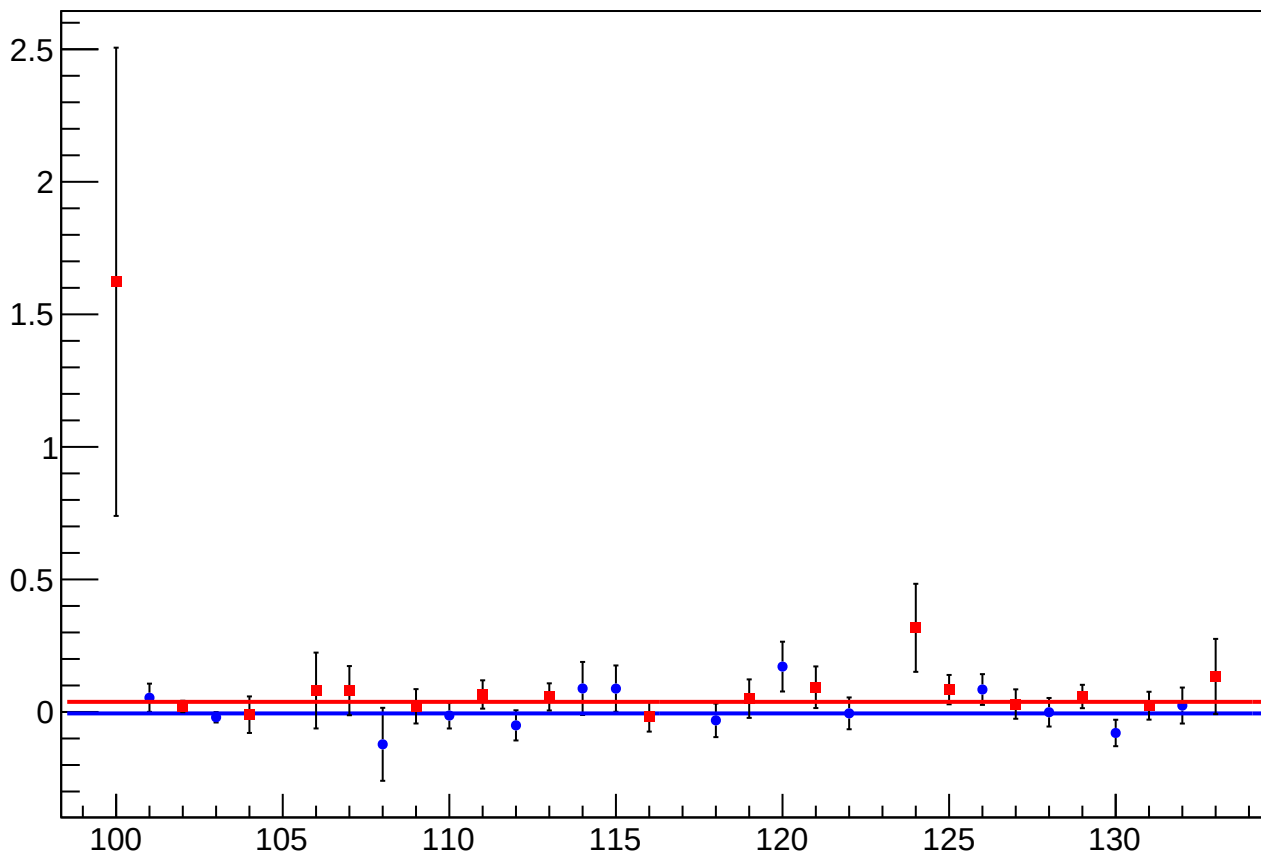
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.215+/-0.007  $\chi^2/\text{NDF}$ : 4645203.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.005 $\pm$ 0.013  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.038 $\pm$ 0.013  $\chi^2$ /NDF: 10.9/16

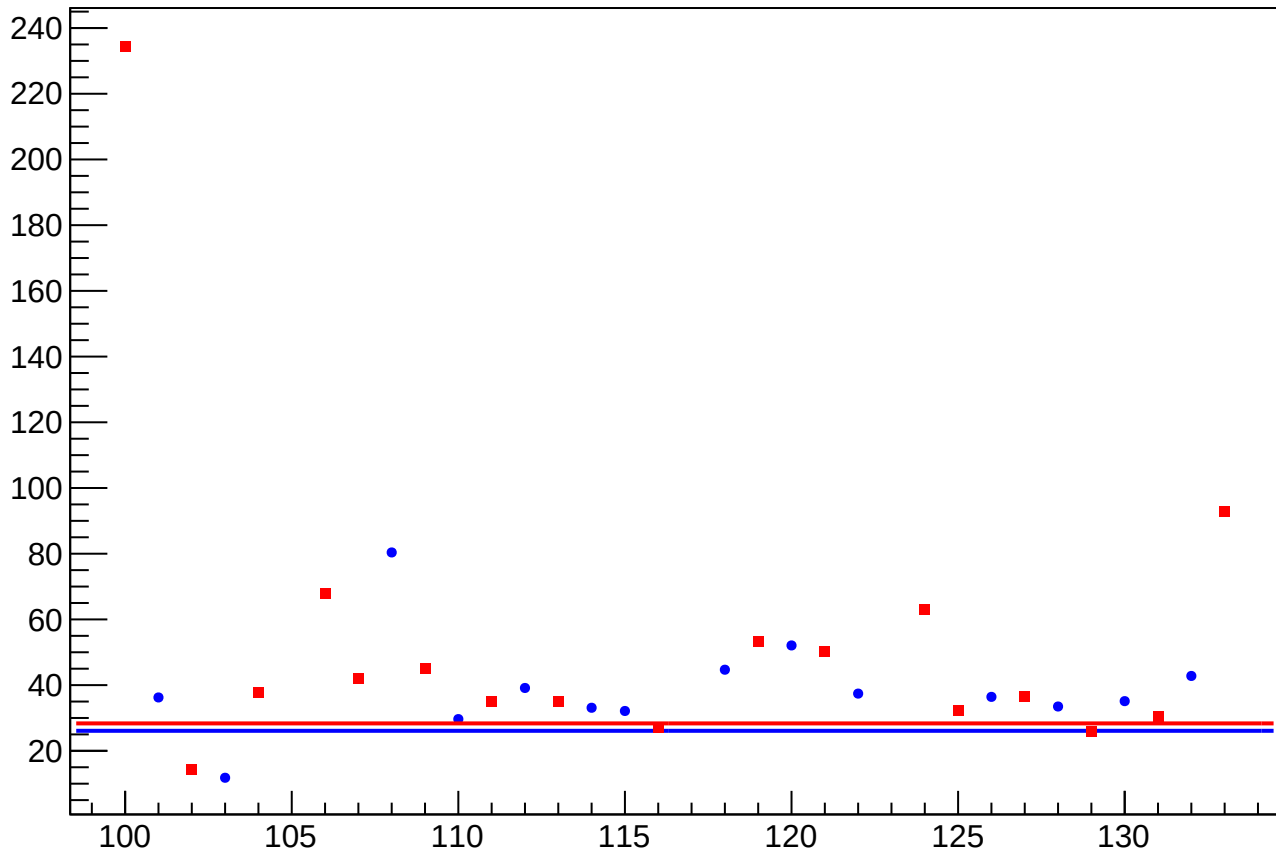
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.016 $\pm$ 0.009  $\chi^2$ /NDF: 30.2/30

- 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: 26.095+/-0.009  $\chi^2/\text{NDF}$ : 2262572.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.350+/-0.009  $\chi^2/\text{NDF}$ : 2353039.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

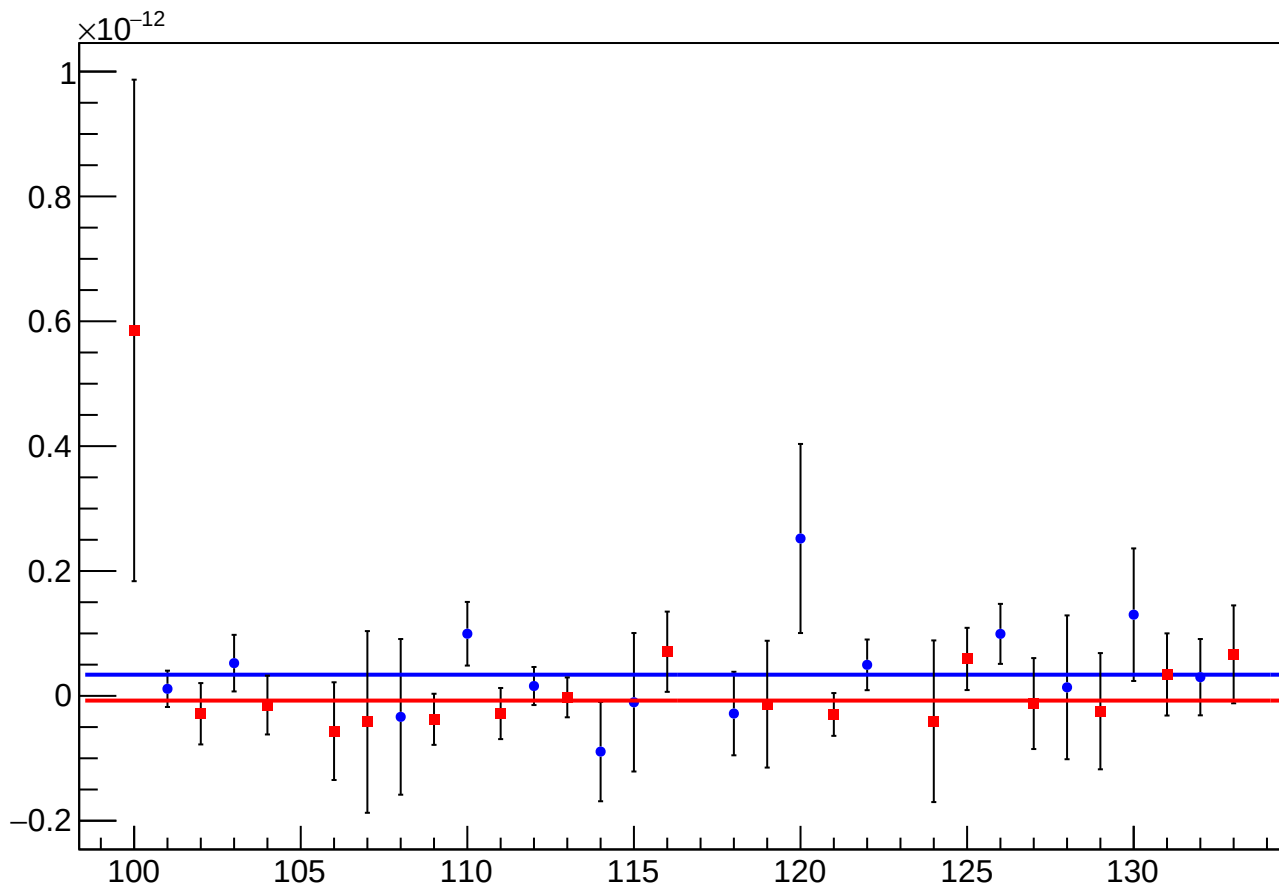
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.215+/-0.007  $\chi^2/\text{NDF}$ : 4645203.0/30

- 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: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.8/16

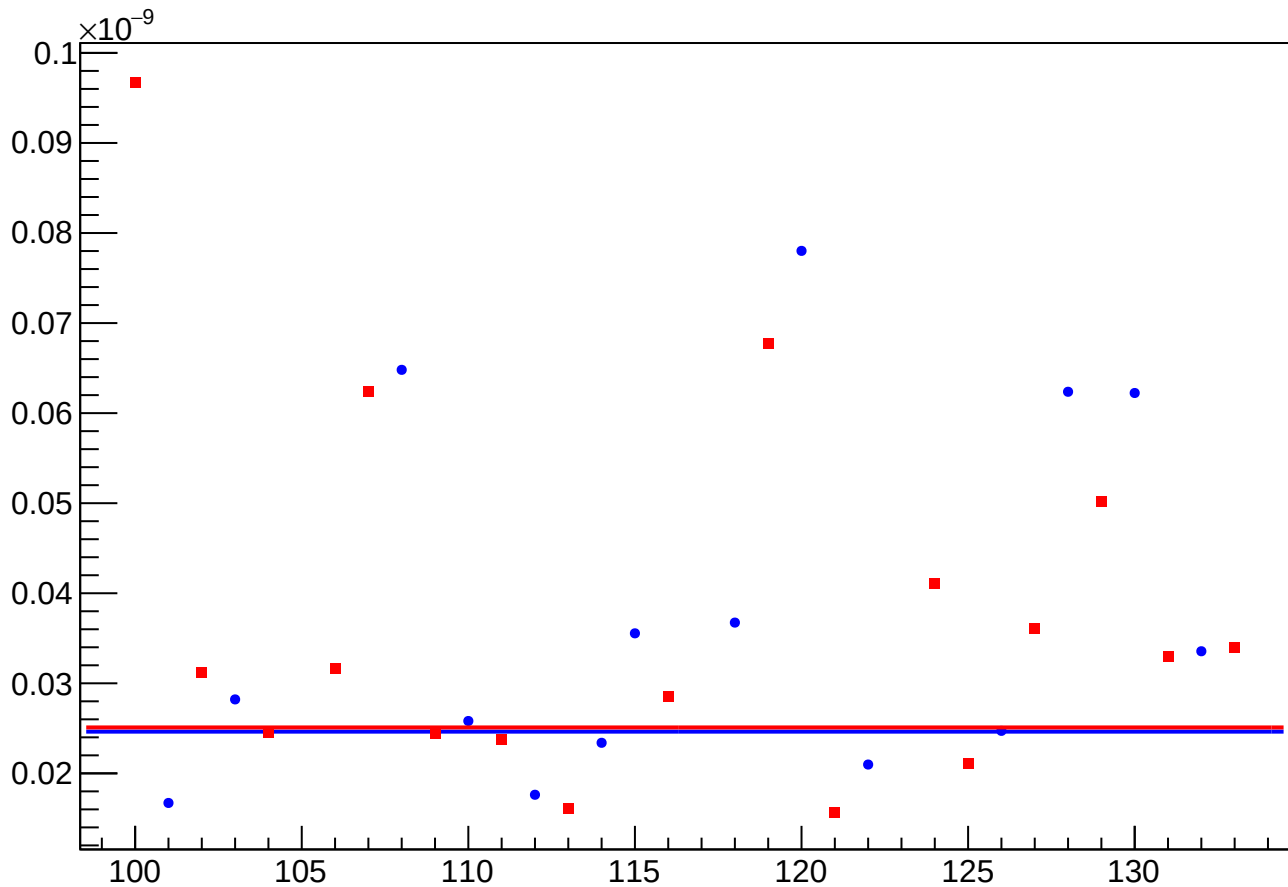
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 24.8/30

- 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  $\chi^2/\text{NDF}$ : 1333340.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1201393.4/16

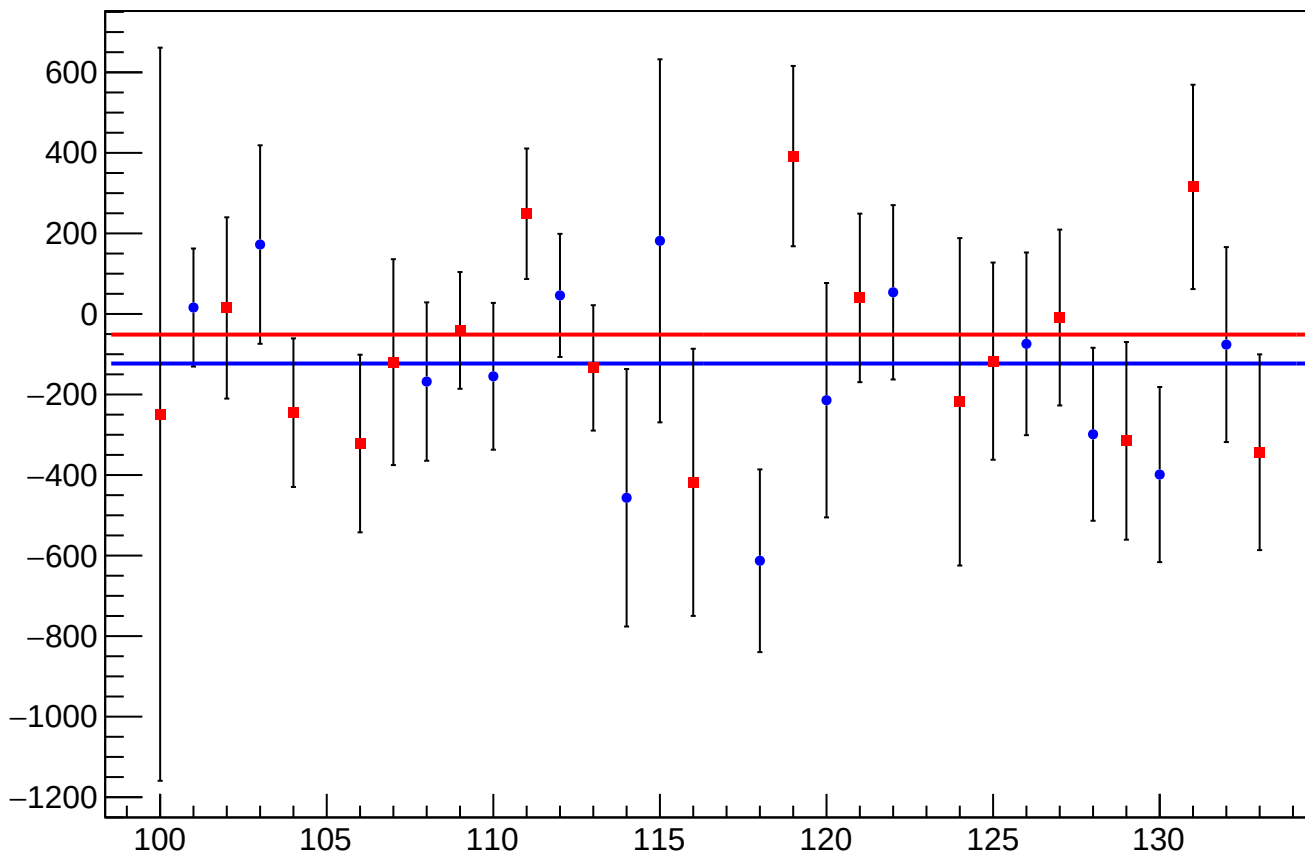
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2535905.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_avg\_mean vs Slug



Right In: -123.085+/-56.943  $\chi^2/\text{NDF}$ : 13.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -51.228+/-52.869  $\chi^2/\text{NDF}$ : 16.8/16

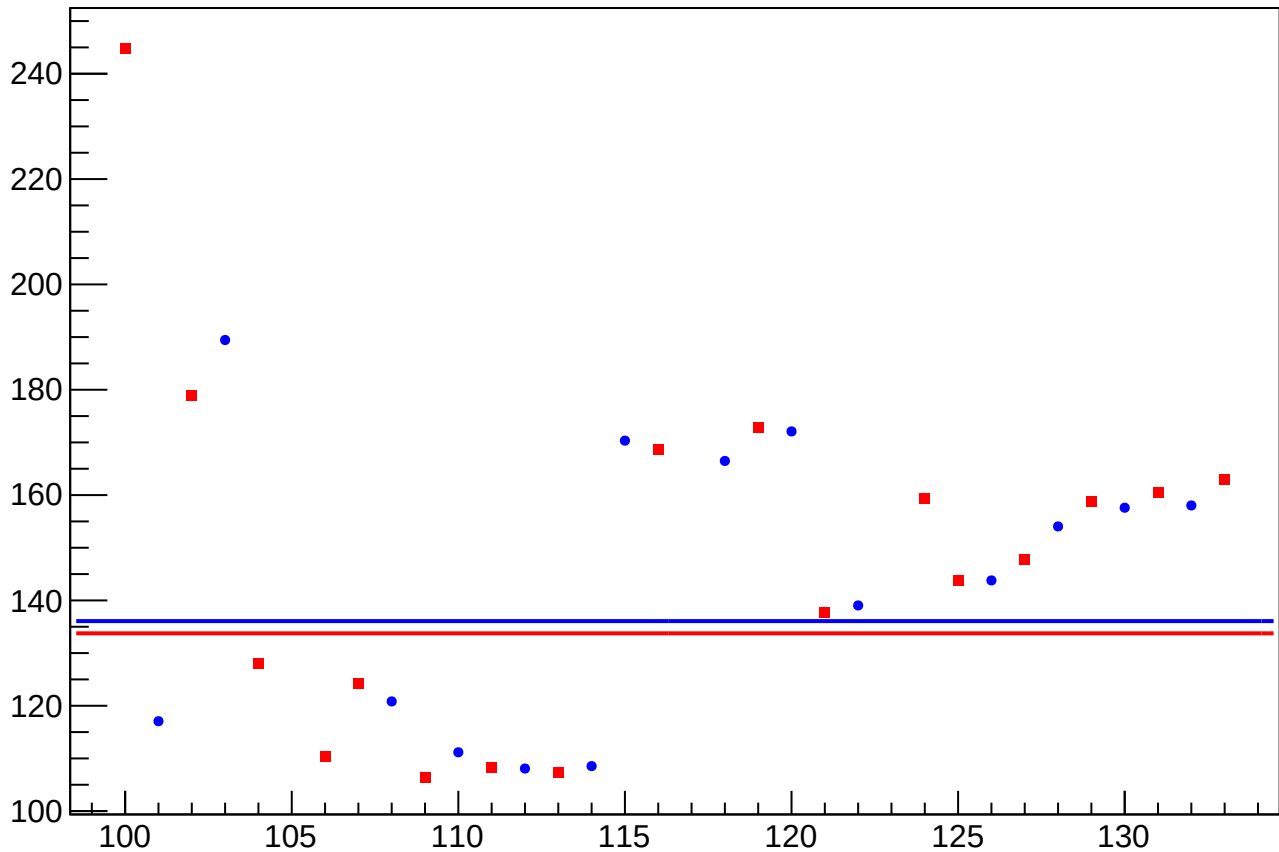
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -84.494+/-38.744  $\chi^2/\text{NDF}$ : 30.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 136.073+/-0.040  $\chi^2/\text{NDF}$ : 389656.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 133.750+/-0.037  $\chi^2/\text{NDF}$ : 491027.5/16

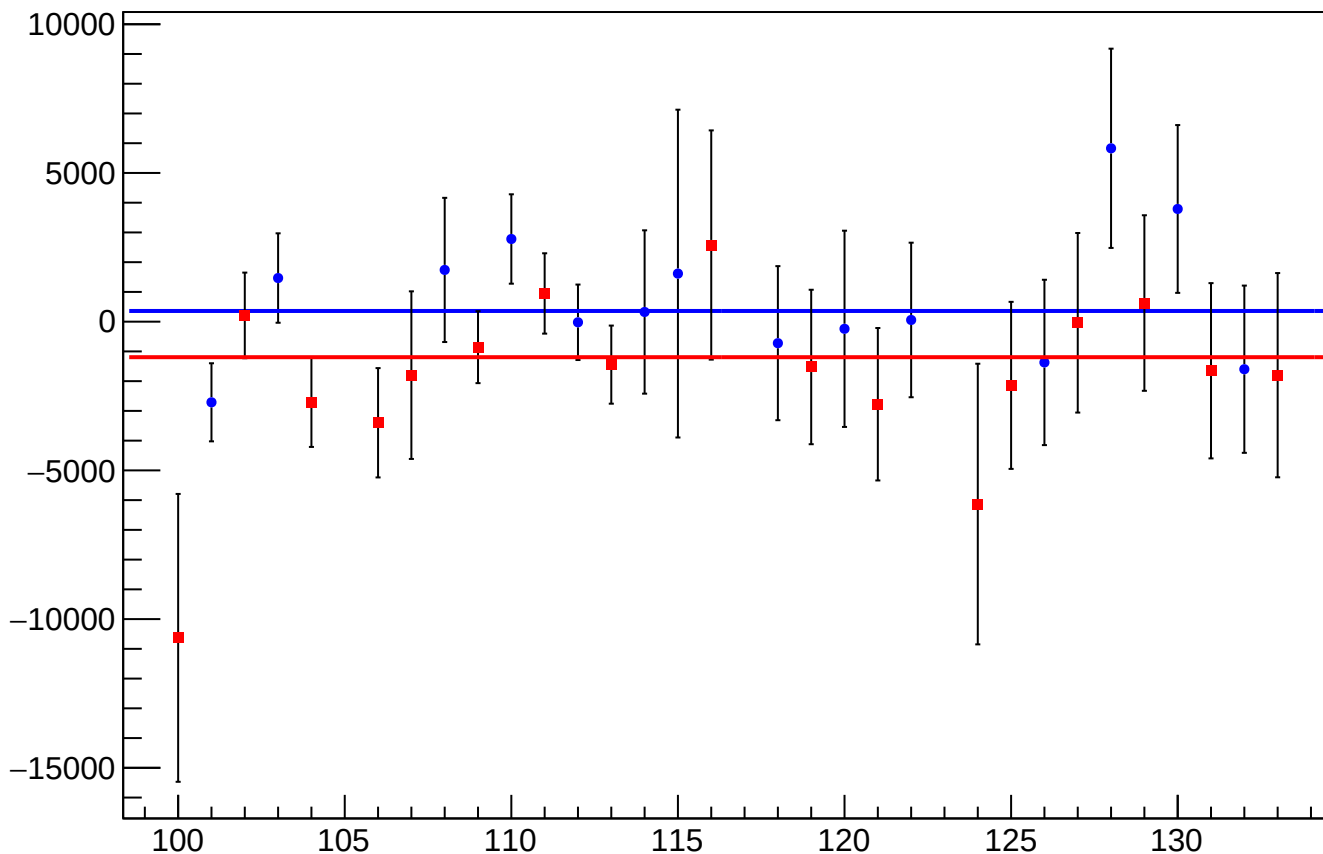
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 134.825+/-0.027  $\chi^2/\text{NDF}$ : 882471.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_reg\_correction\_mean vs Slug



Right In: 359.647+/-551.924  $\chi^2/\text{NDF}$ : 14.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1194.254+/-490.182  $\chi^2/\text{NDF}$ : 13.0/16

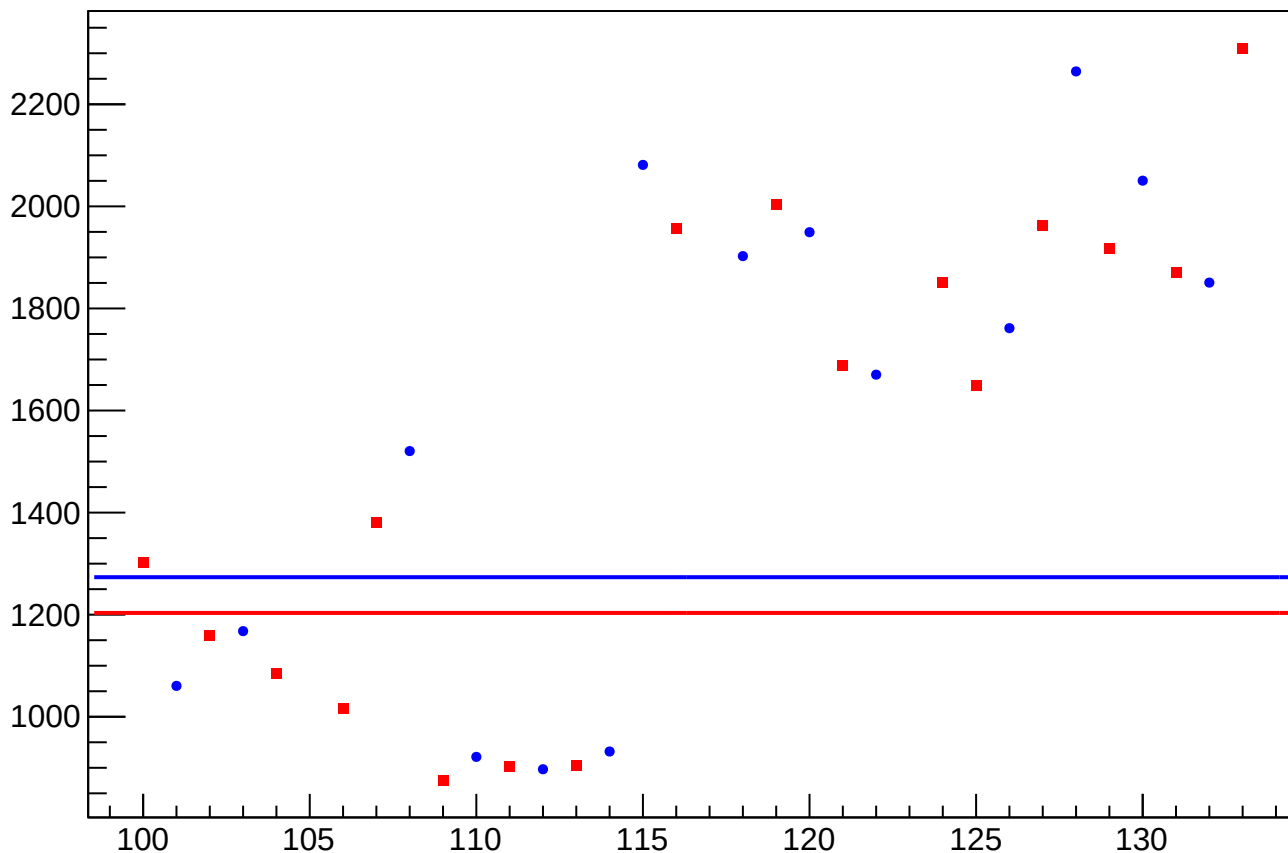
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -509.046+/-366.504  $\chi^2/\text{NDF}$ : 31.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_avg\_reg\_correction\_rms vs Slug



Right In: 1273.480+/-0.390  $\chi^2/\text{NDF}$ : 1164231.5/13

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

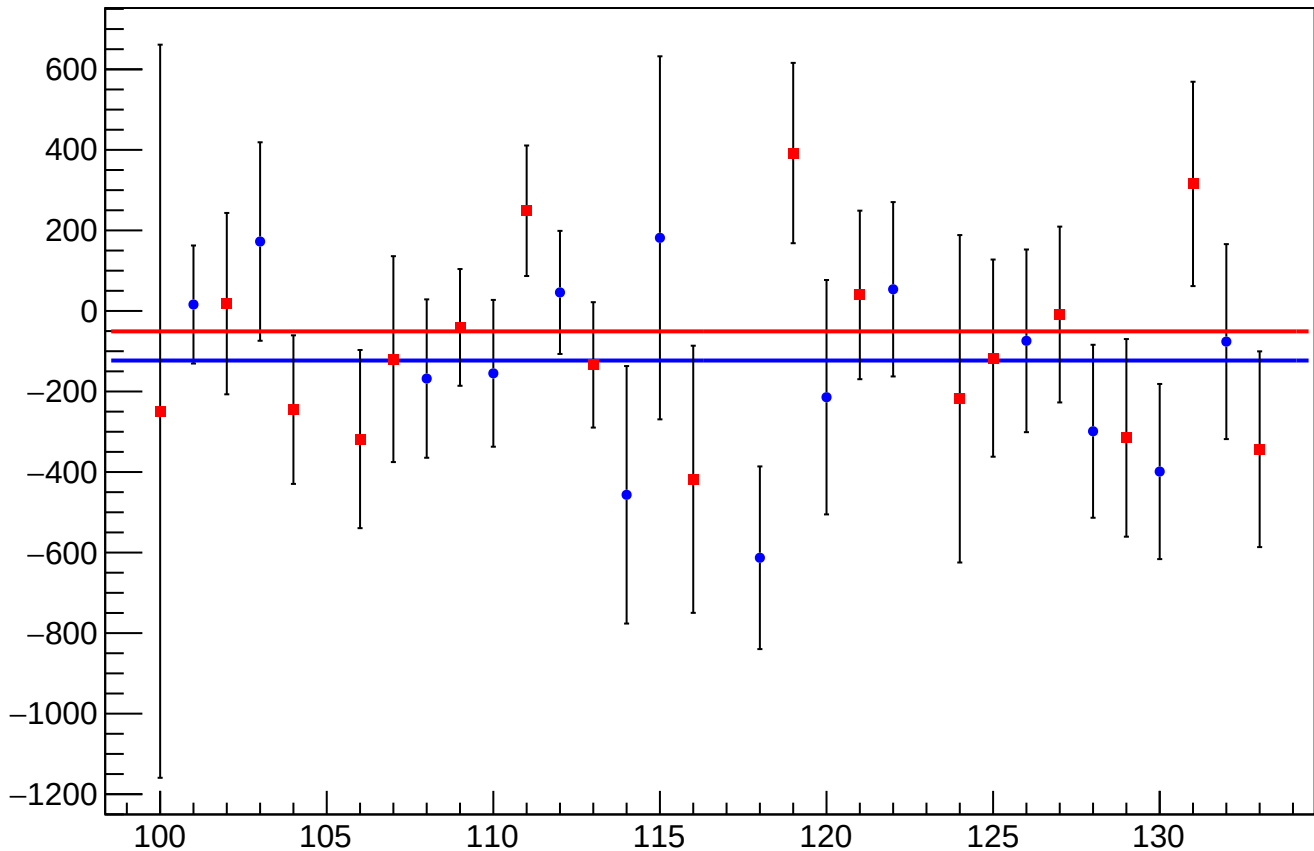
Right Out: 1203.429+/-0.347  $\chi^2/\text{NDF}$ : 1372891.5/16

All: 1234.319+/-0.259  $\chi^2/\text{NDF}$ : 2555133.8/30

- 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\_sam\_48\_avg\_mean vs Slug



Right In: -123.104 $\pm$ 56.943  $\chi^2$ /NDF: 13.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -50.738 $\pm$ 52.880  $\chi^2$ /NDF: 16.8/16

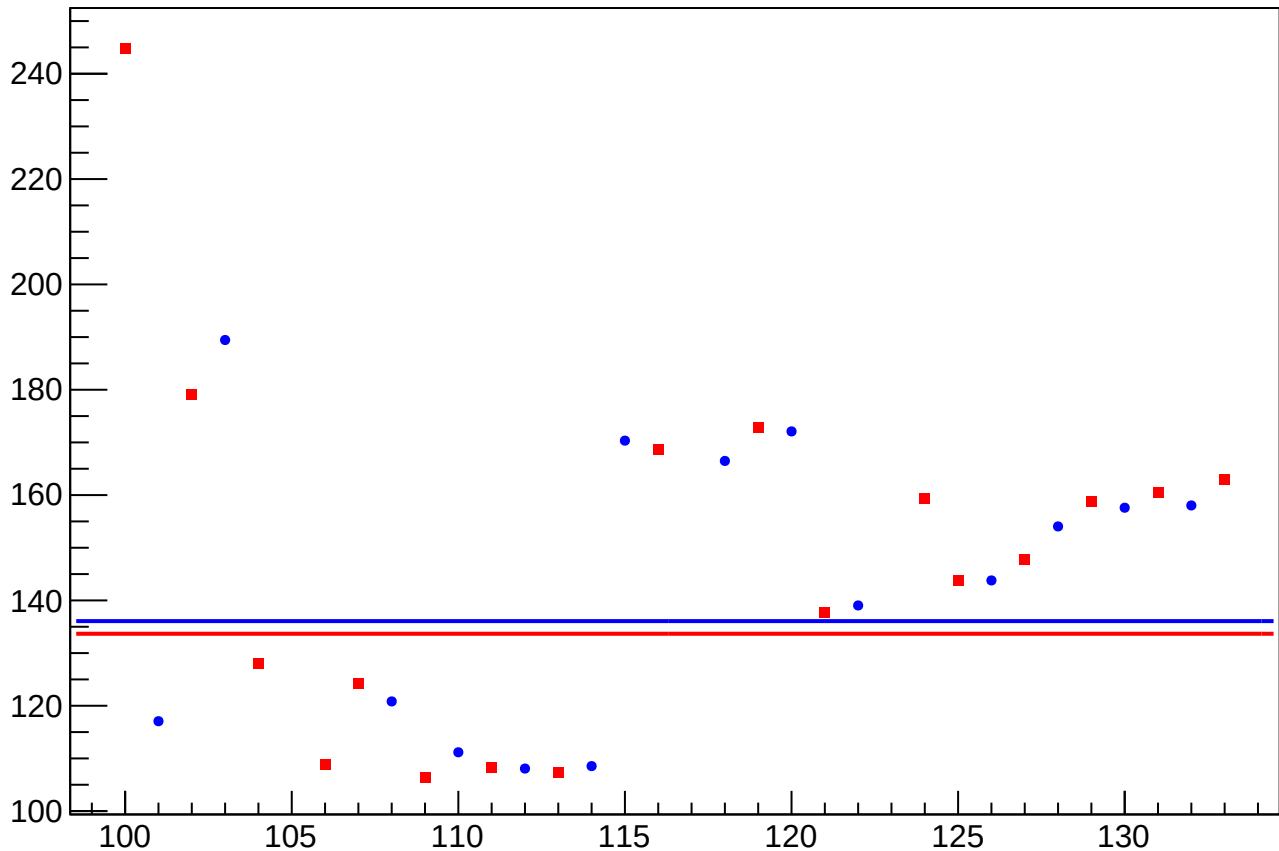
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -84.248 $\pm$ 38.749  $\chi^2$ /NDF: 30.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 136.073+/-0.040  $\chi^2/\text{NDF}$ : 389659.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 133.669+/-0.037  $\chi^2/\text{NDF}$ : 494245.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

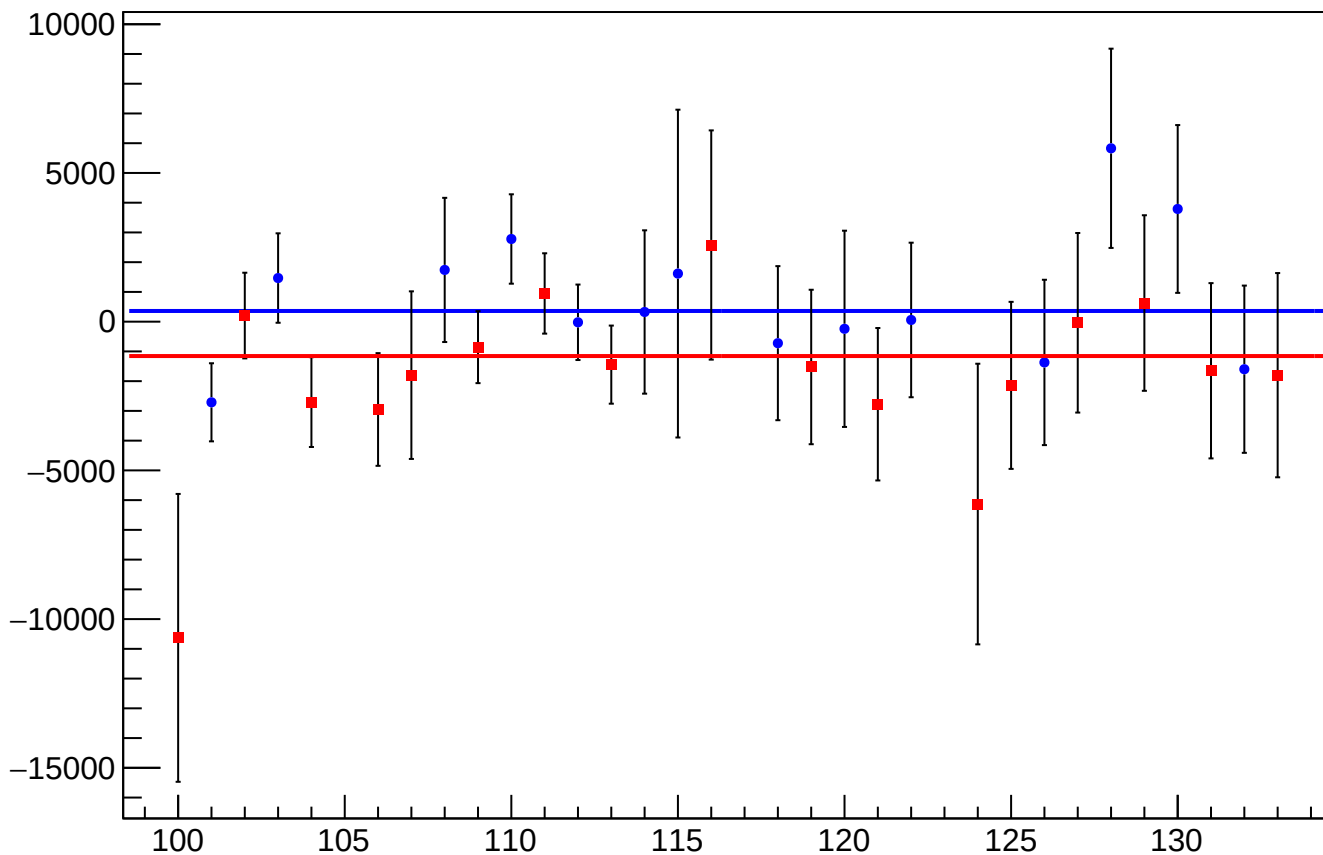
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 134.782+/-0.027  $\chi^2/\text{NDF}$ : 885818.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_48\_avg\_cor\_correction\_mean vs Slug



Right In: 359.570+/-551.931  $\chi^2/\text{NDF}$ : 14.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1155.877+/-491.241  $\chi^2/\text{NDF}$ : 12.4/16

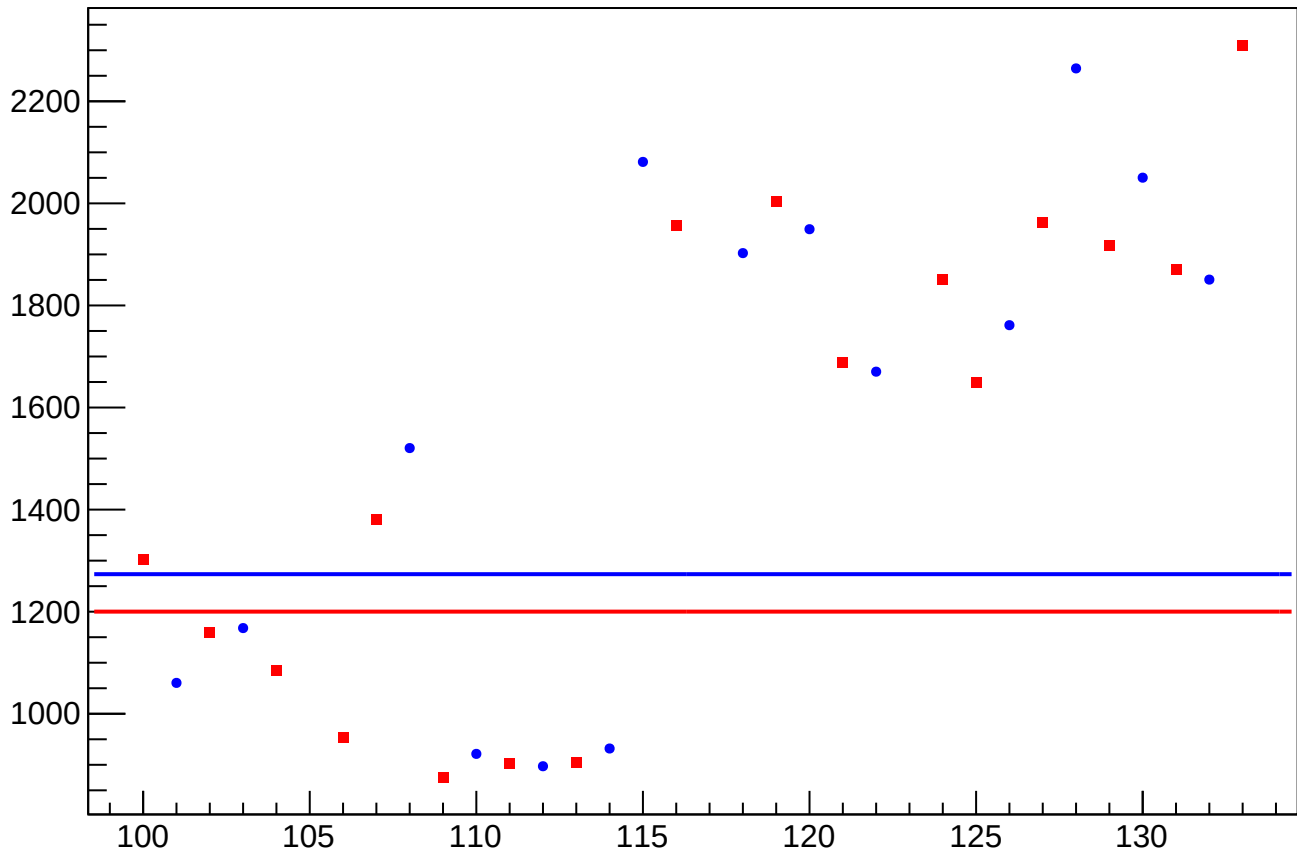
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -486.021+/-366.948  $\chi^2/\text{NDF}$ : 30.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_avg\_cor\_correction\_rms vs Slug



Right In: 1273.496 $\pm$ 0.390  $\chi^2$ /NDF: 1164209.4/13

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

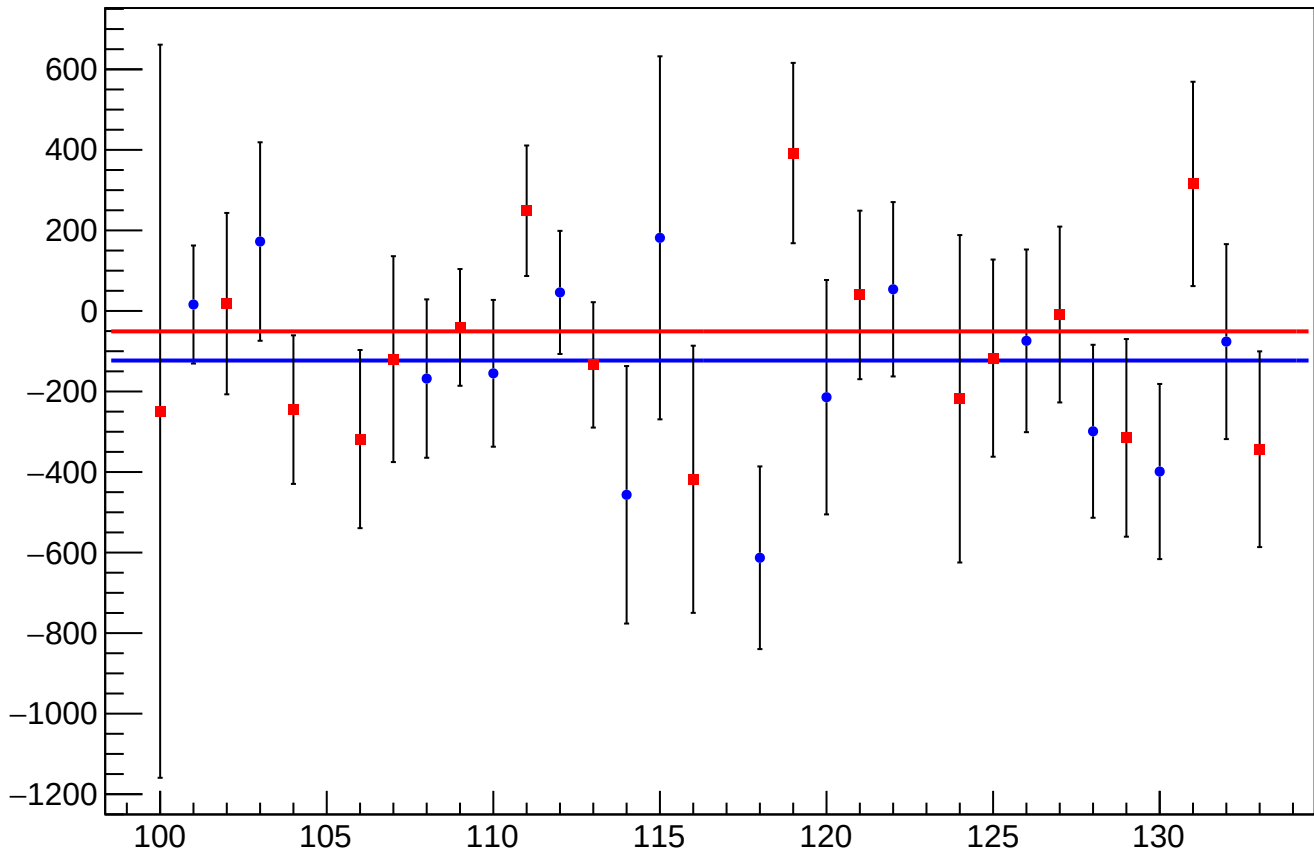
Right Out: 1200.134 $\pm$ 0.347  $\chi^2$ /NDF: 1386585.8/16

All: 1232.561 $\pm$ 0.259  $\chi^2$ /NDF: 2570511.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_48\_avg\_mean vs Slug



Right In: -123.104 $\pm$ 56.943  $\chi^2$ /NDF: 13.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -50.738 $\pm$ 52.880  $\chi^2$ /NDF: 16.8/16

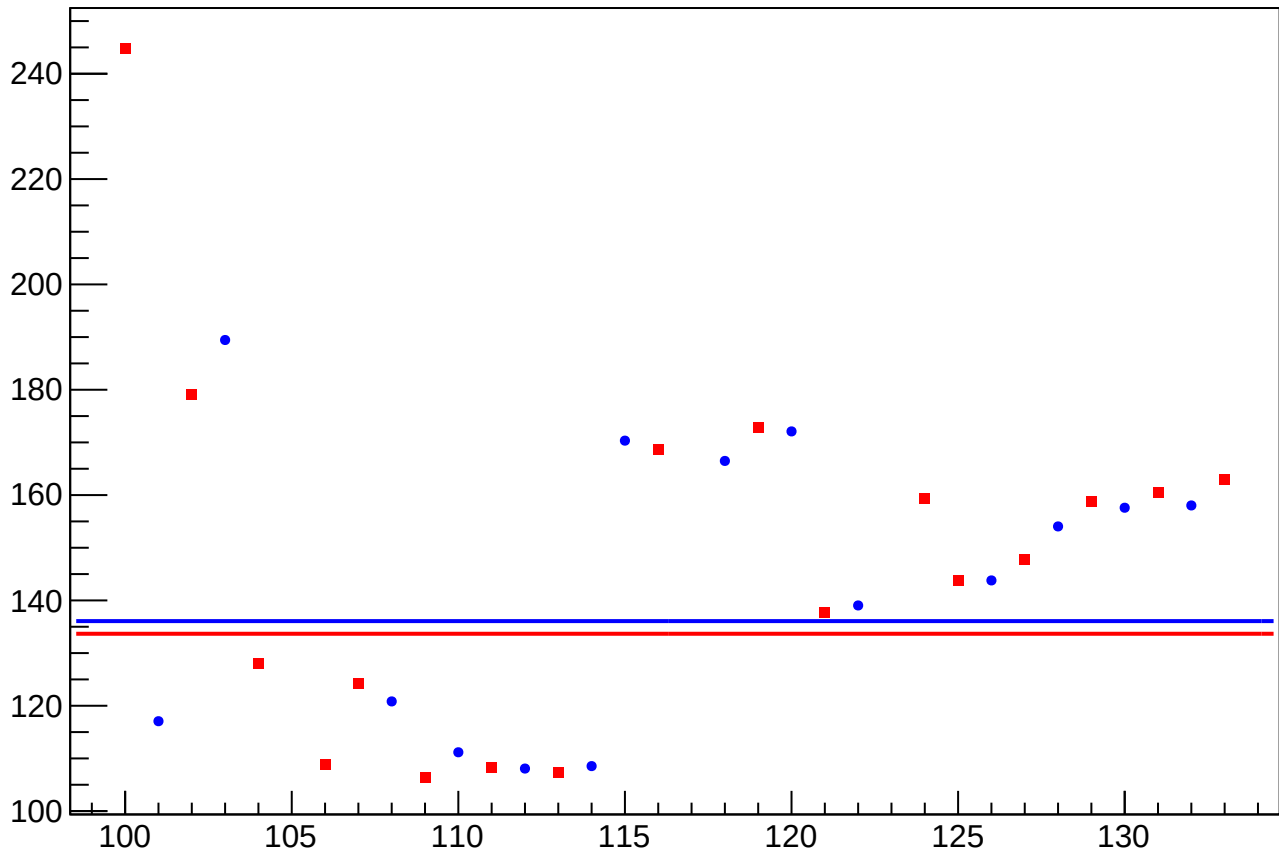
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -84.248 $\pm$ 38.749  $\chi^2$ /NDF: 30.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 136.073+/-0.040  $\chi^2/\text{NDF}$ : 389659.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 133.669+/-0.037  $\chi^2/\text{NDF}$ : 494245.3/16

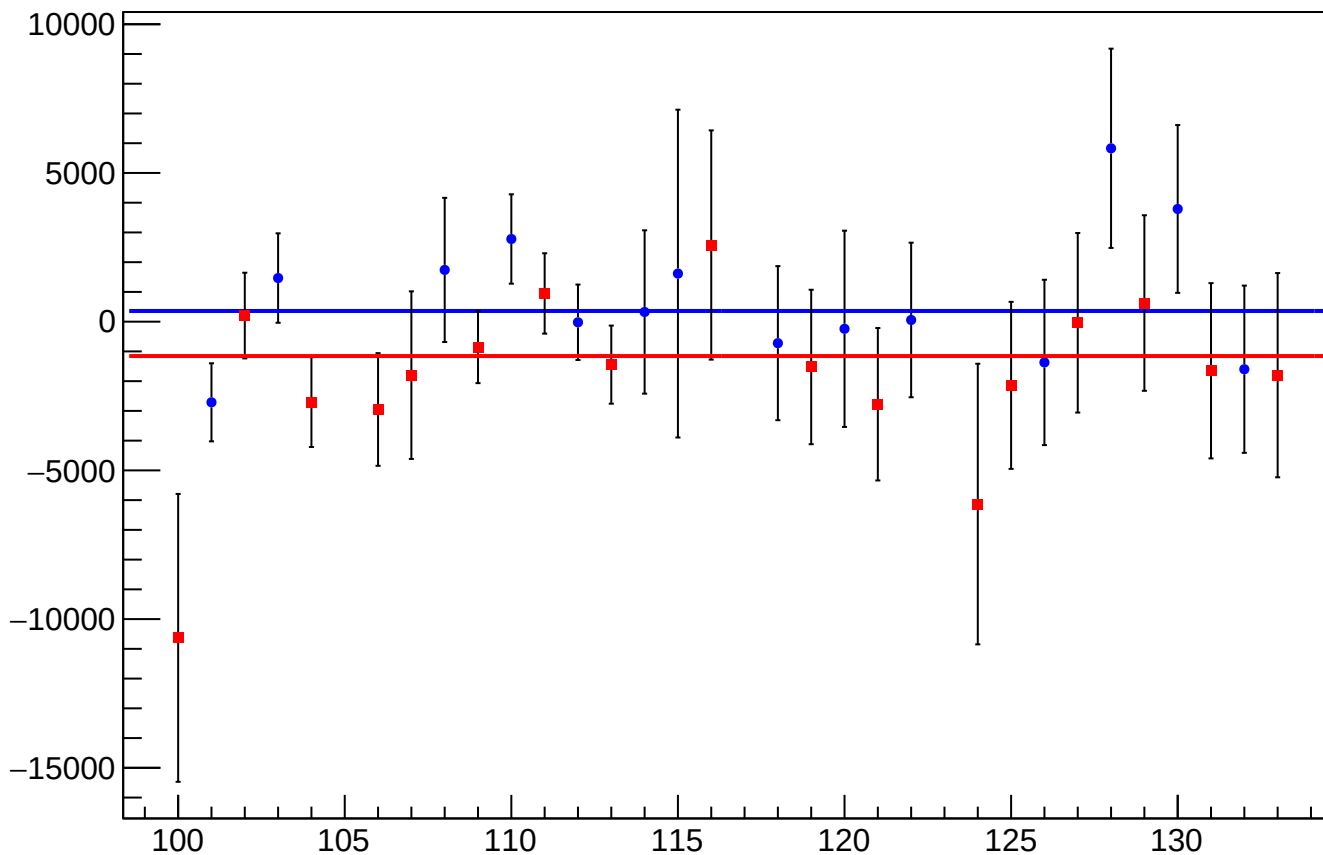
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 134.782+/-0.027  $\chi^2/\text{NDF}$ : 885818.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 359.570+/-551.931  $\chi^2/\text{NDF}$ : 14.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1155.877+/-491.241  $\chi^2/\text{NDF}$ : 12.4/16

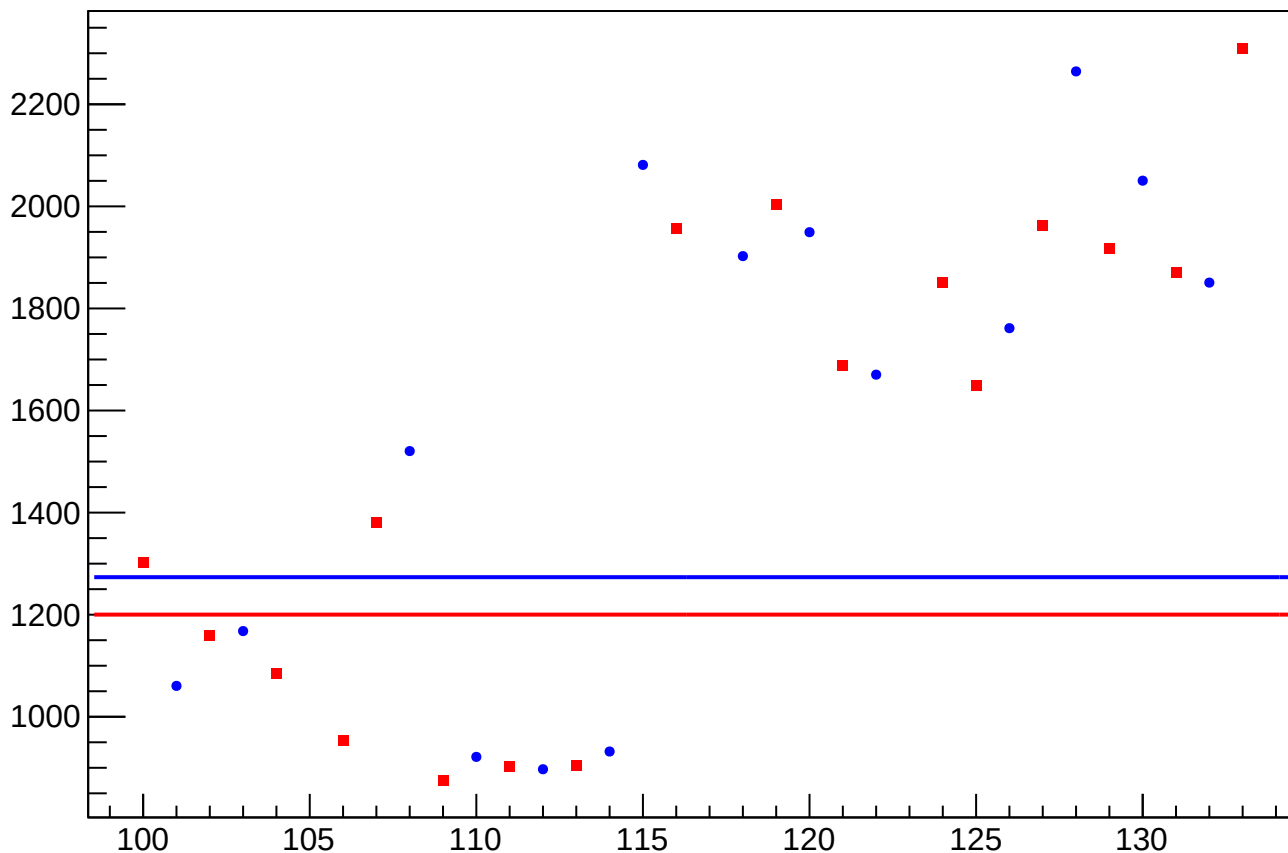
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -486.021+/-366.948  $\chi^2/\text{NDF}$ : 30.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1273.496 $\pm$ 0.390  $\chi^2$ /NDF: 1164209.4/13

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

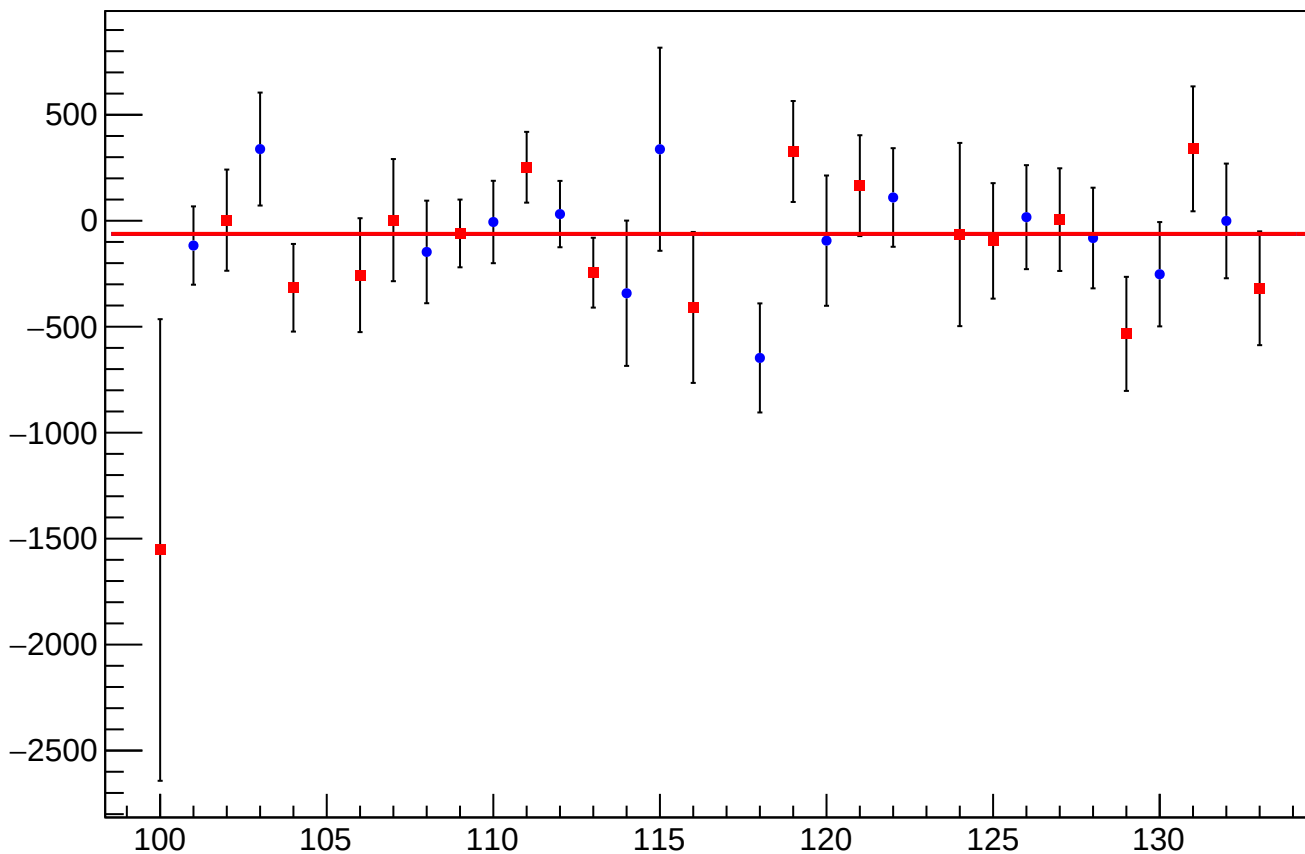
Right Out: 1200.134 $\pm$ 0.347  $\chi^2$ /NDF: 1386585.8/16

All: 1232.561 $\pm$ 0.259  $\chi^2$ /NDF: 2570511.7/30

- 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\_sam\_48\_avg\_mean vs Slug



Right In: -62.468+/-63.343  $\chi^2/\text{NDF}$ : 10.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -61.980+/-57.957  $\chi^2/\text{NDF}$ : 19.3/16

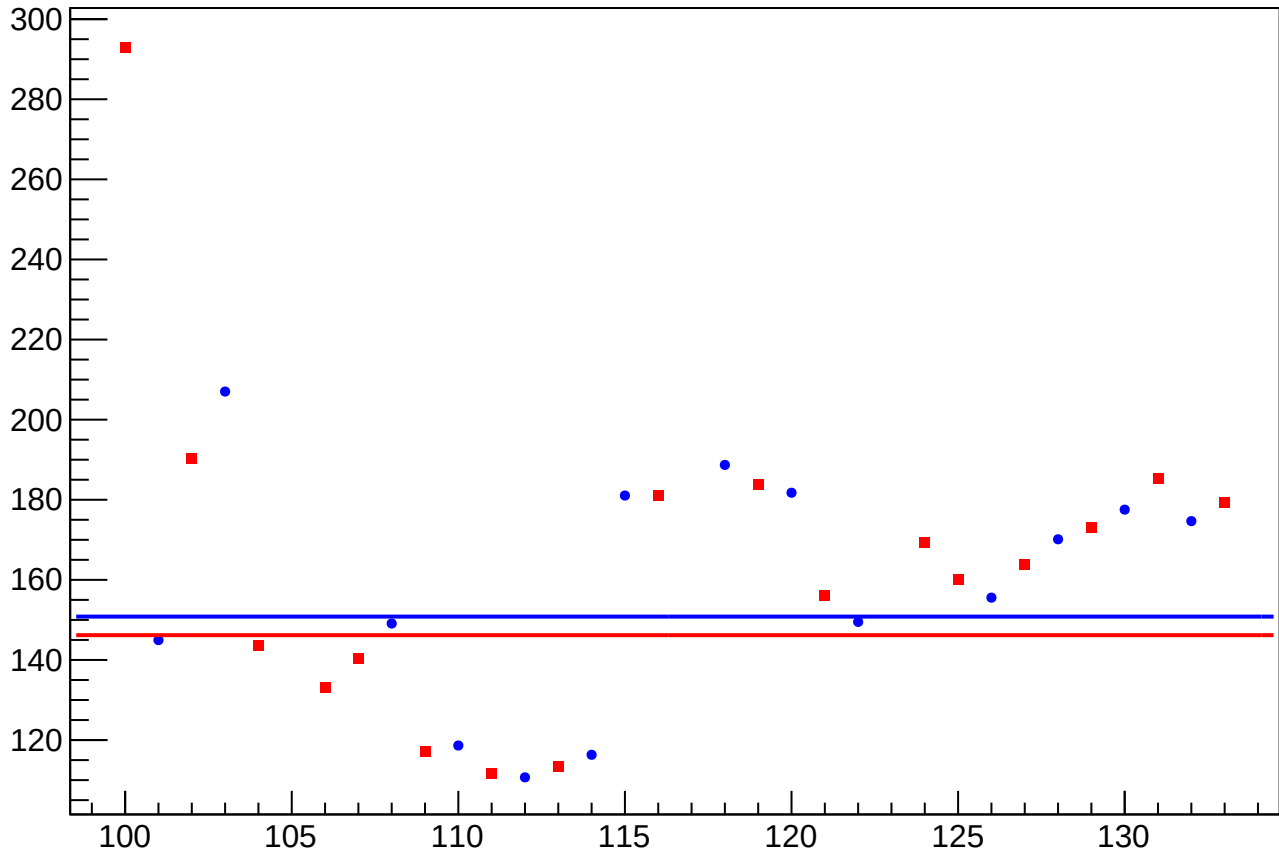
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -62.202+/-42.759  $\chi^2/\text{NDF}$ : 30.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 150.828+/-0.045  $\chi^2/\text{NDF}$ : 422212.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 146.190+/-0.041  $\chi^2/\text{NDF}$ : 521459.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

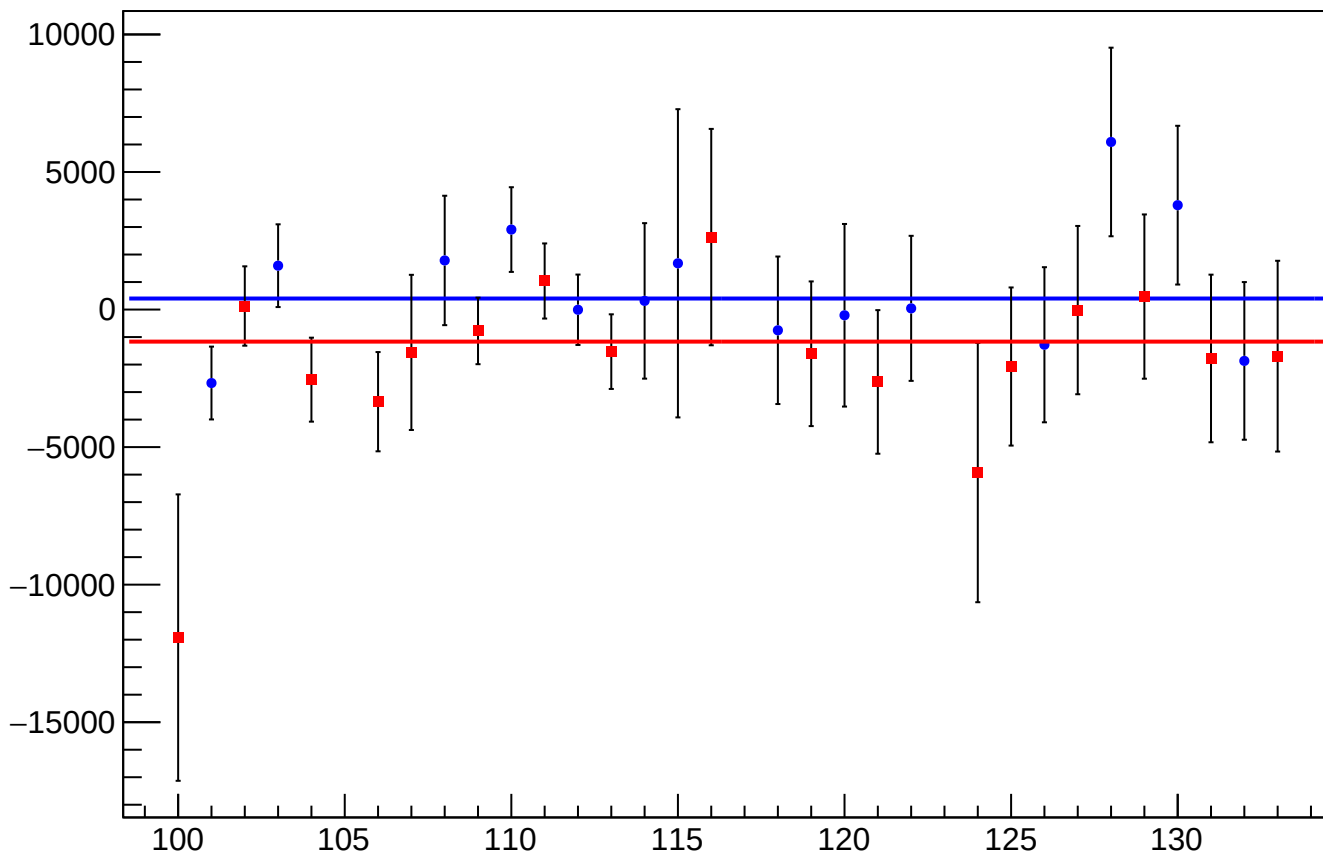
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 148.303+/-0.030  $\chi^2/\text{NDF}$ : 949510.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_48\_avg\_dit\_correction\_mean vs Slug



Right In: 401.001 $\pm$ 558.128  $\chi^2$ /NDF: 14.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1165.519 $\pm$ 495.337  $\chi^2$ /NDF: 13.1/16

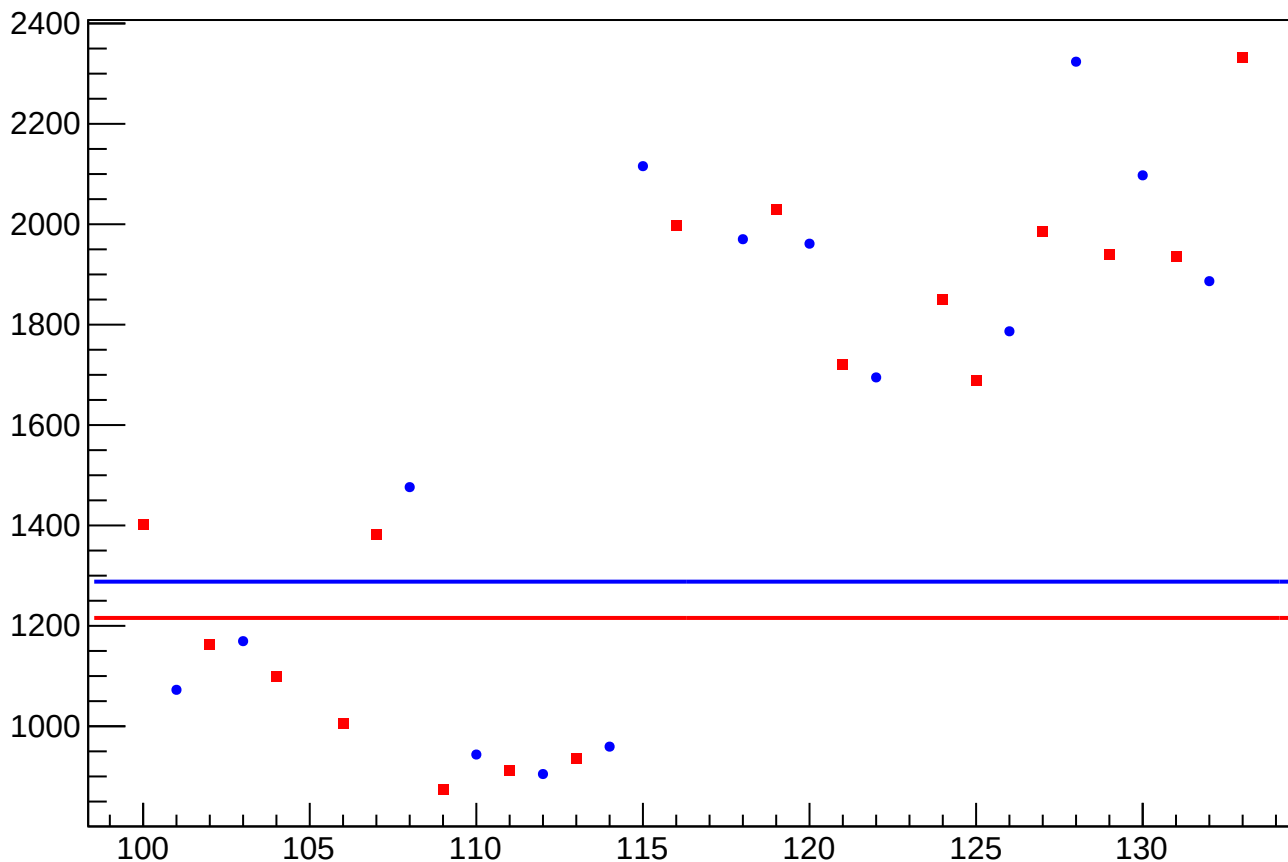
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -475.301 $\pm$ 370.475  $\chi^2$ /NDF: 32.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_avg\_dit\_correction\_rms vs Slug



Right In: 1288.054 $\pm$ 0.395  $\chi^2$ /NDF: 1177754.3/13

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

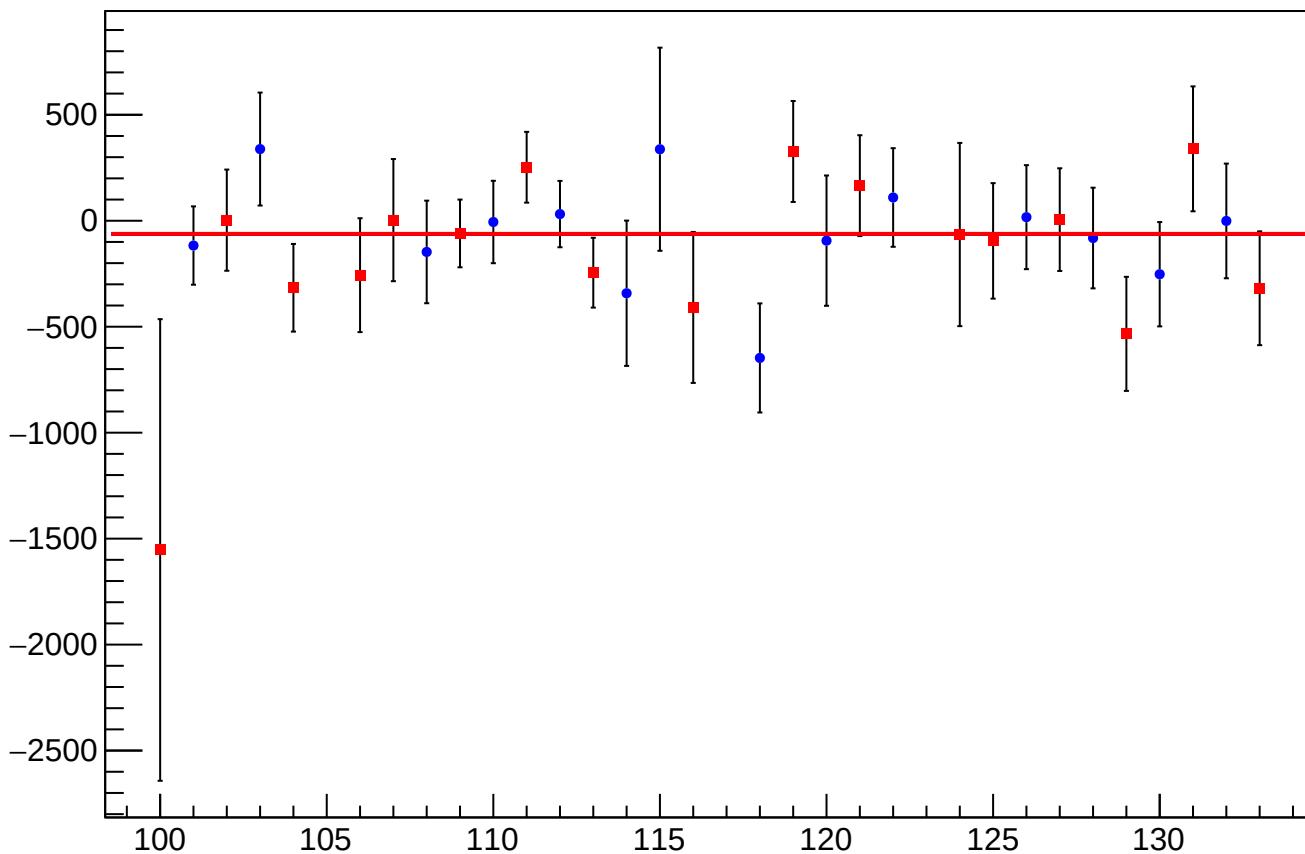
Right Out: 1215.765 $\pm$ 0.350  $\chi^2$ /NDF: 1393446.6/16

All: 1247.616 $\pm$ 0.262  $\chi^2$ /NDF: 2589969.3/30

- 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:  $-62.468 \pm 63.343$   $\chi^2/\text{NDF}$ : 10.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-61.978 \pm 57.957$   $\chi^2/\text{NDF}$ : 19.3/16

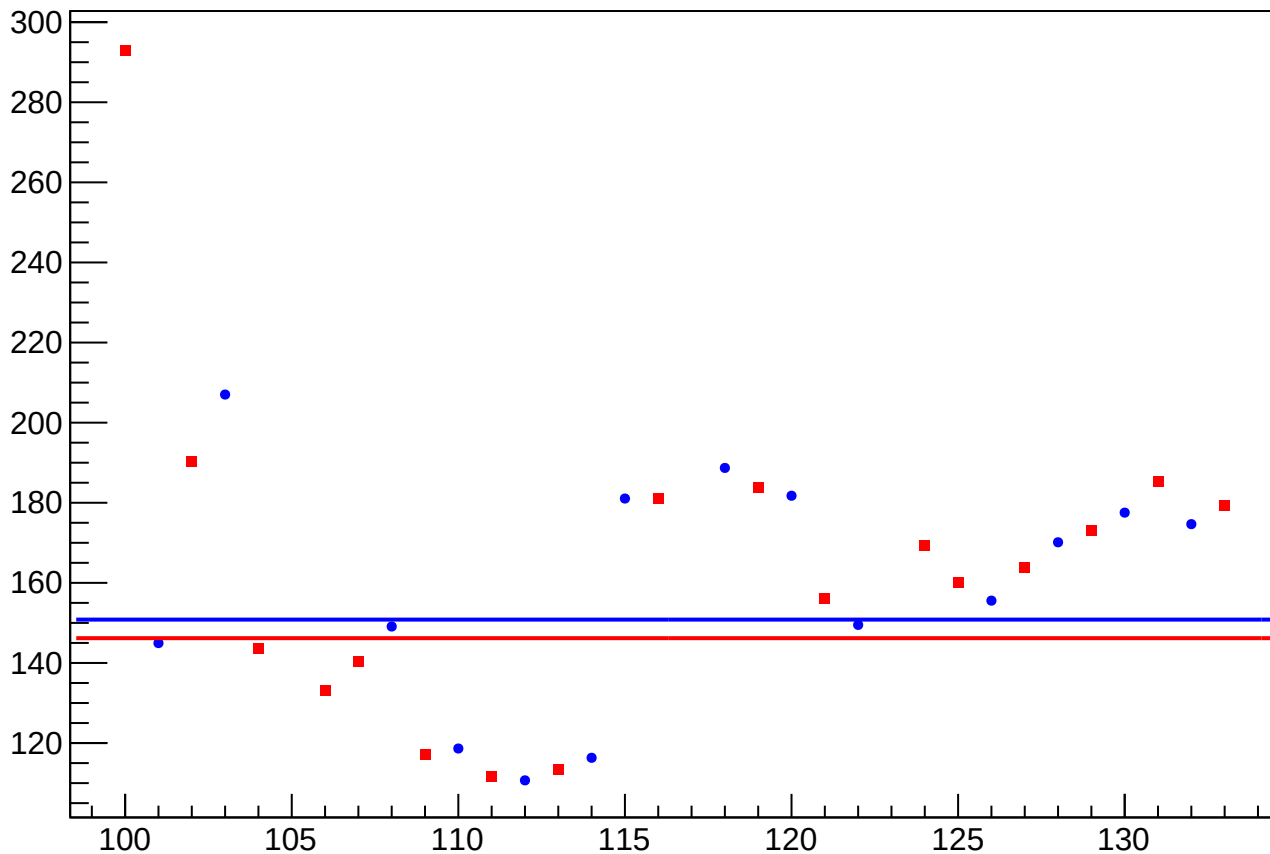
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-62.201 \pm 42.759$   $\chi^2/\text{NDF}$ : 30.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 150.828 $\pm$ 0.045  $\chi^2$ /NDF: 422215.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 146.189 $\pm$ 0.041  $\chi^2$ /NDF: 521462.2/16

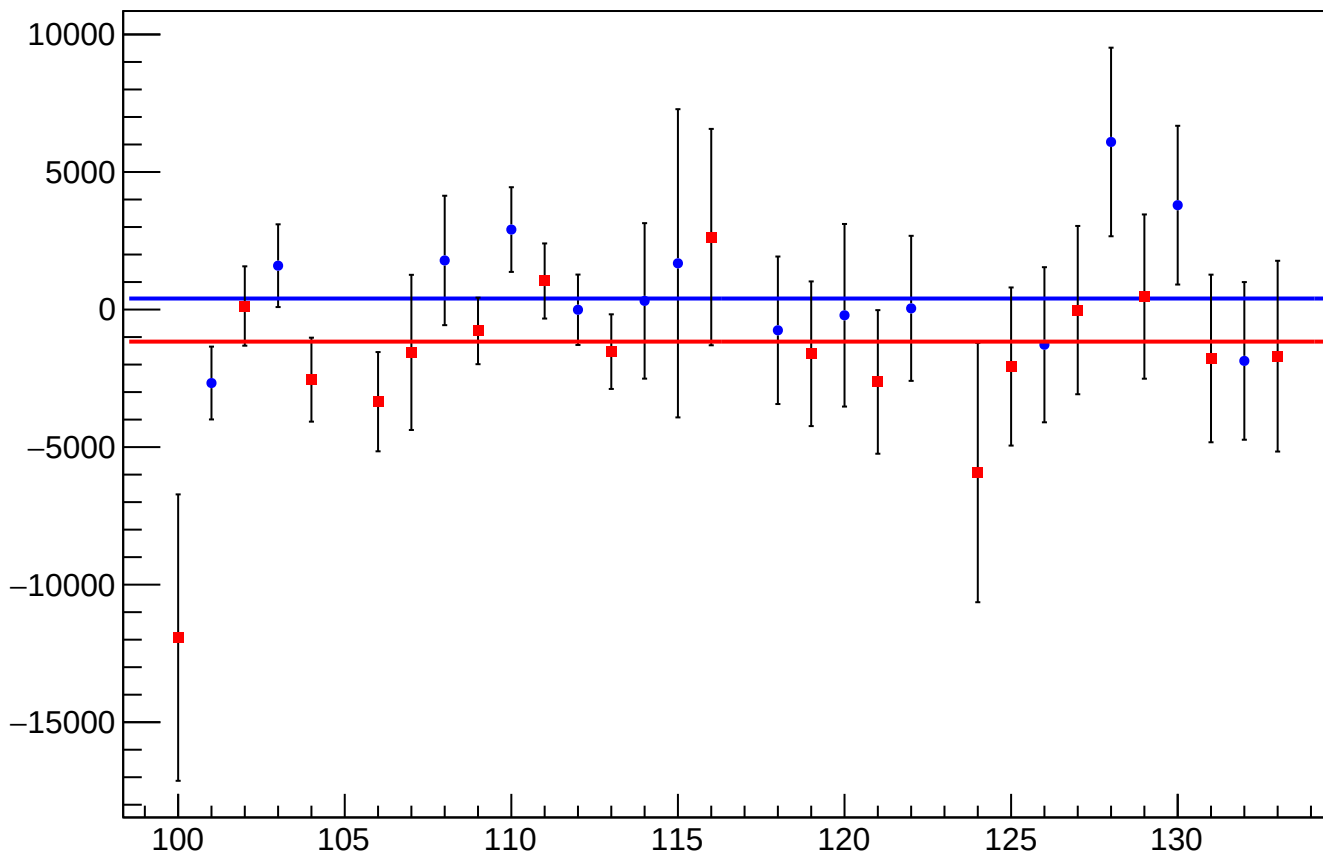
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 148.303 $\pm$ 0.030  $\chi^2$ /NDF: 949515.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 401.001 $\pm$ 558.128  $\chi^2$ /NDF: 14.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1165.517 $\pm$ 495.336  $\chi^2$ /NDF: 13.1/16

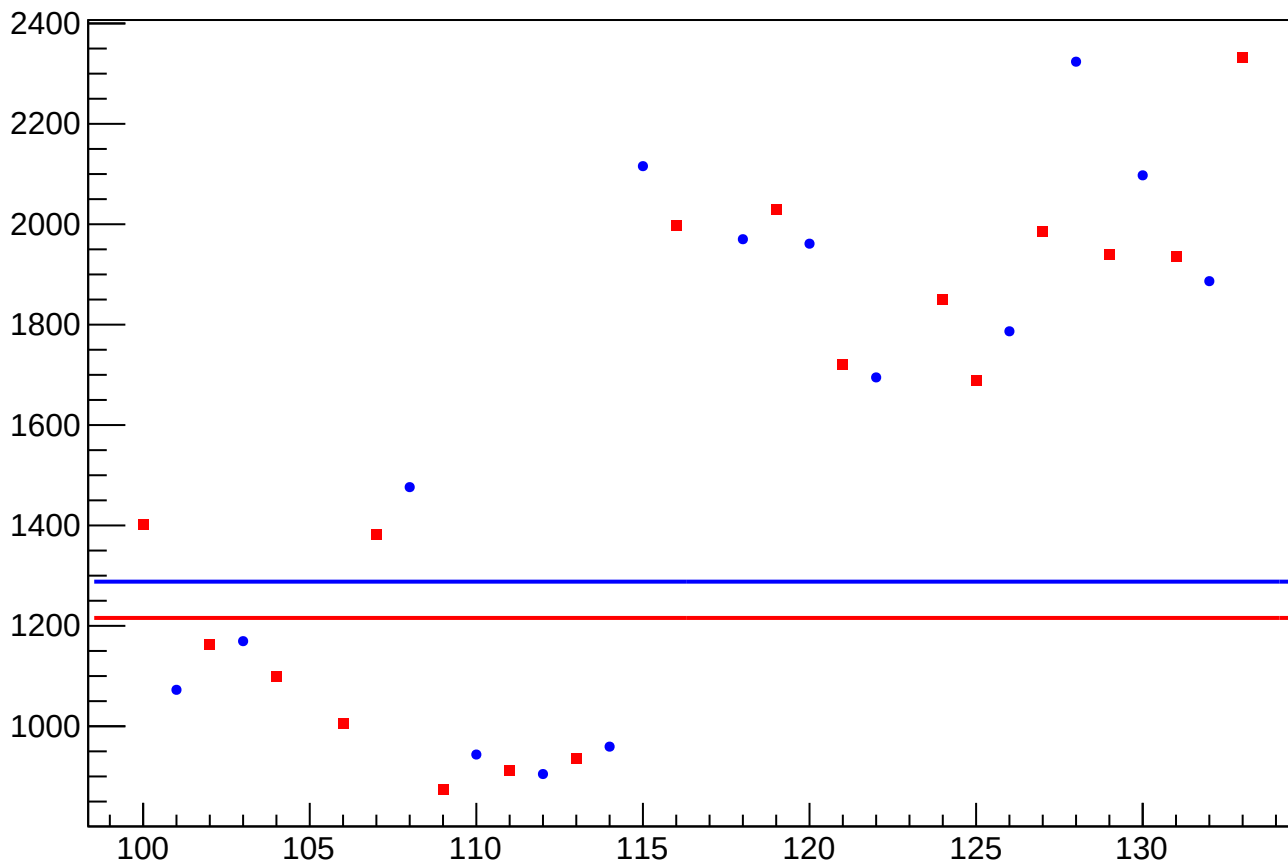
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -475.300 $\pm$ 370.475  $\chi^2$ /NDF: 32.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1288.053+/-0.395  $\chi^2/\text{NDF}$ : 1177758.7/13

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

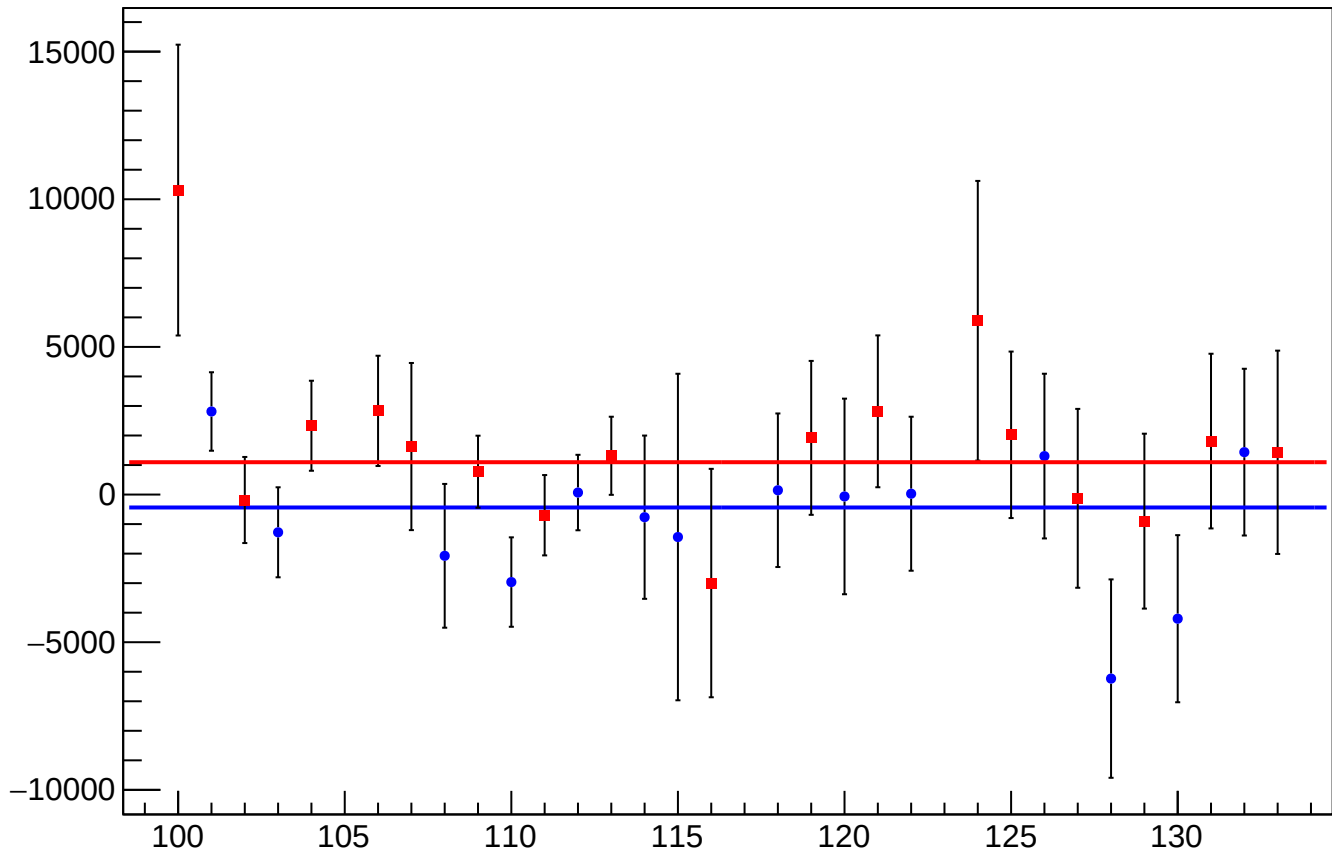
Right Out: 1215.764+/-0.350  $\chi^2/\text{NDF}$ : 1393449.9/16

All: 1247.615+/-0.262  $\chi^2/\text{NDF}$ : 2589976.9/30

- 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\_48\_avg\_mean vs Slug



Right In: -437.584+/-556.299  $\chi^2/\text{NDF}$ : 15.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1095.729+/-494.097  $\chi^2/\text{NDF}$ : 11.2/16

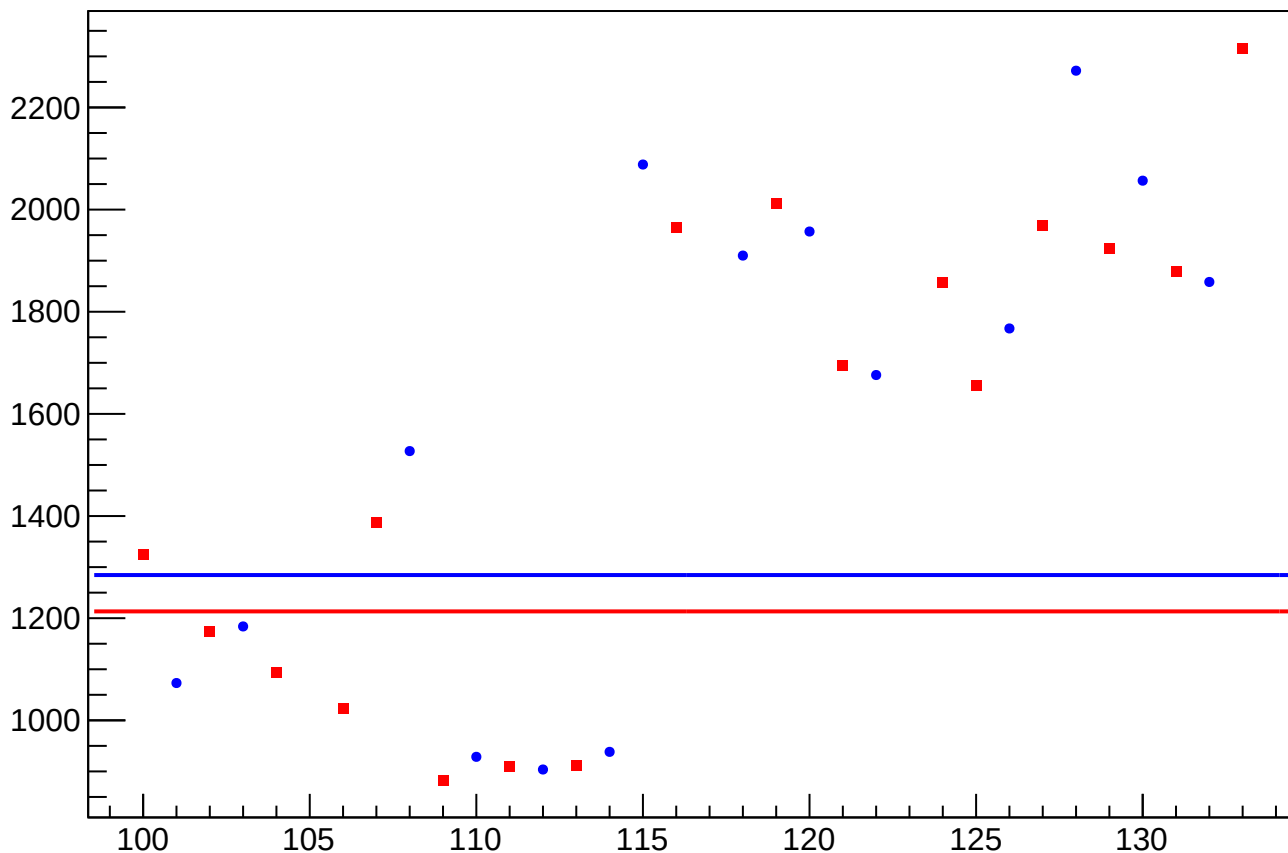
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 419.554+/-369.422  $\chi^2/\text{NDF}$ : 30.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_avg\_rms vs Slug



Right In: 1284.471+/-0.393  $\chi^2/\text{NDF}$ : 1148606.8/13

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: 1213.305+/-0.349  $\chi^2/\text{NDF}$ : 1358707.7/16

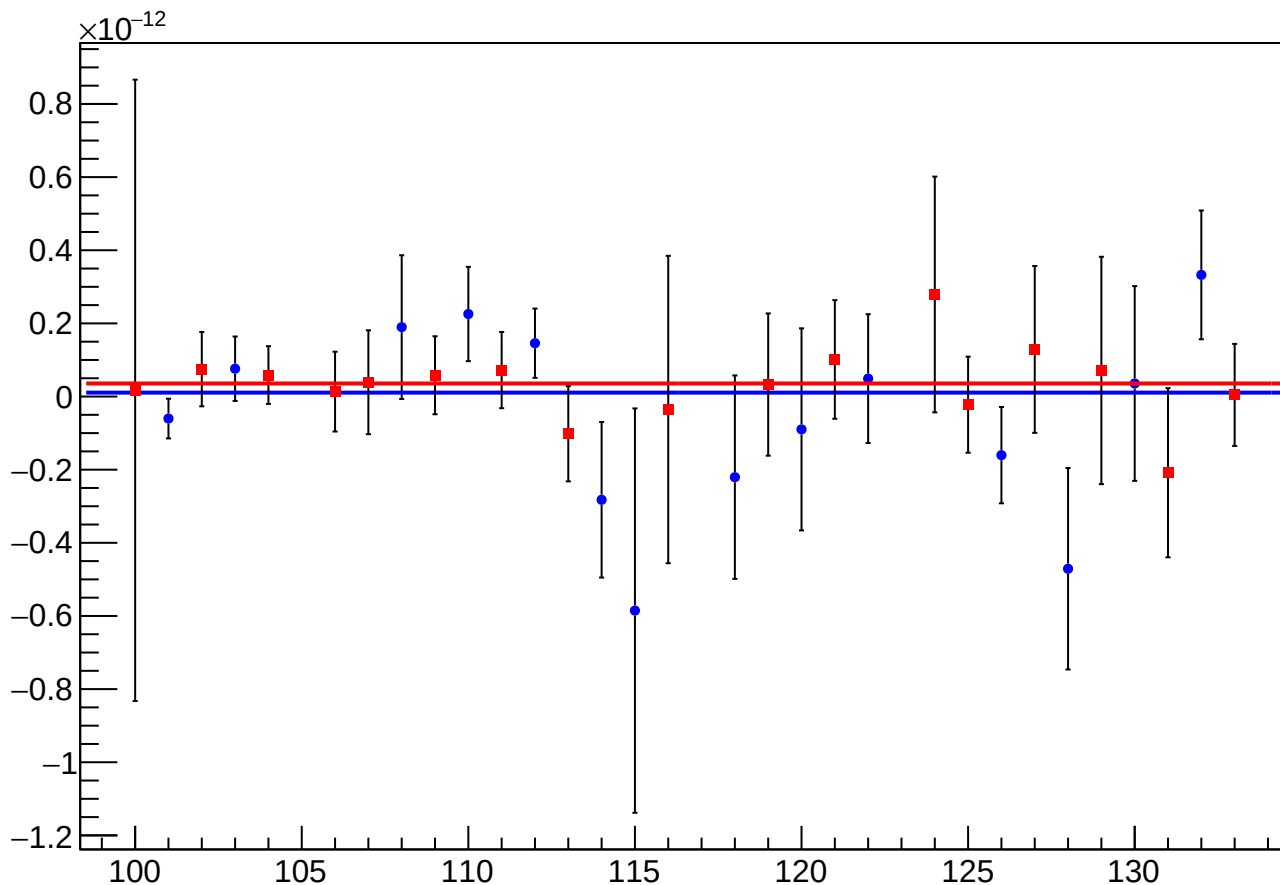
All: 1244.688+/-0.261  $\chi^2/\text{NDF}$ : 2525611.1/30

- 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\_48\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.9/16

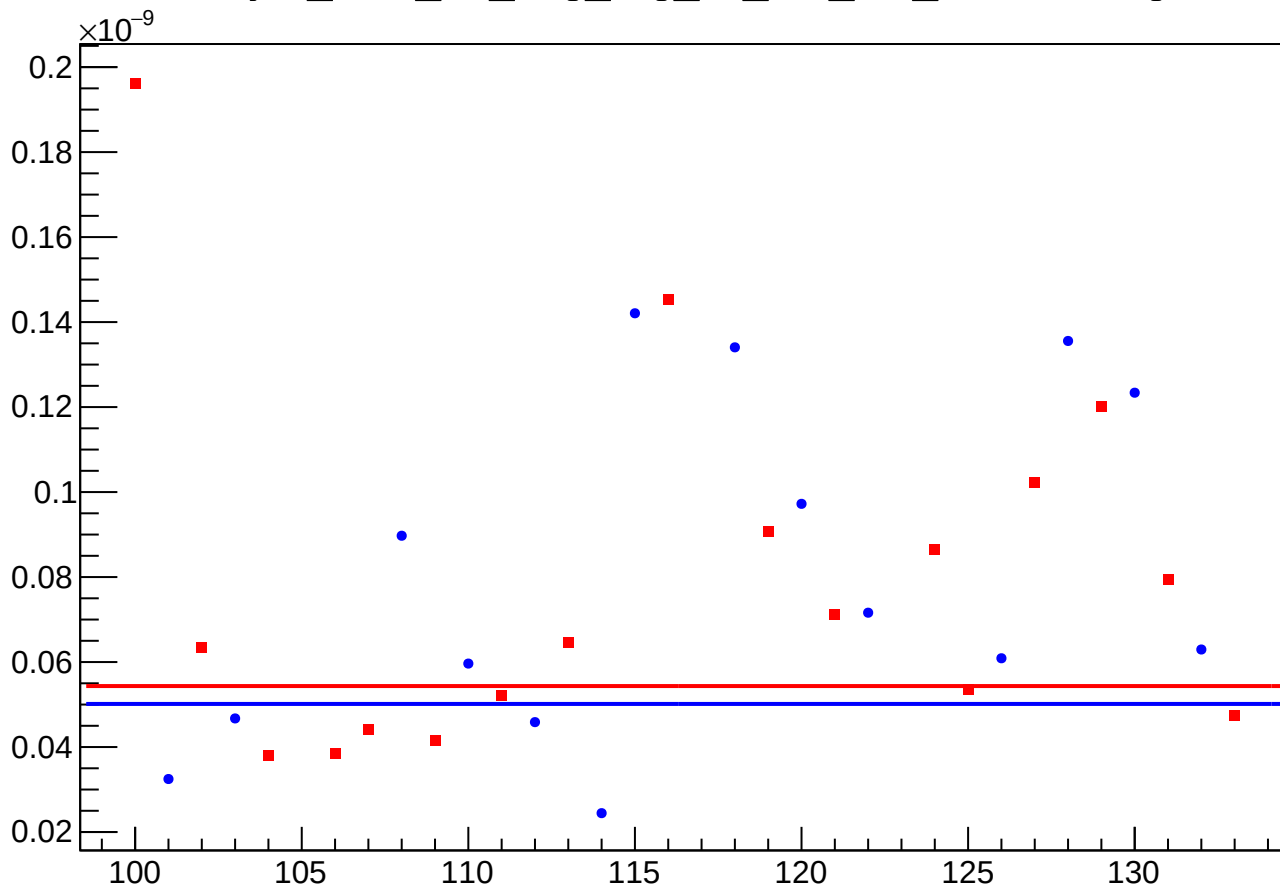
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 24.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1033106.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 663319.3/16

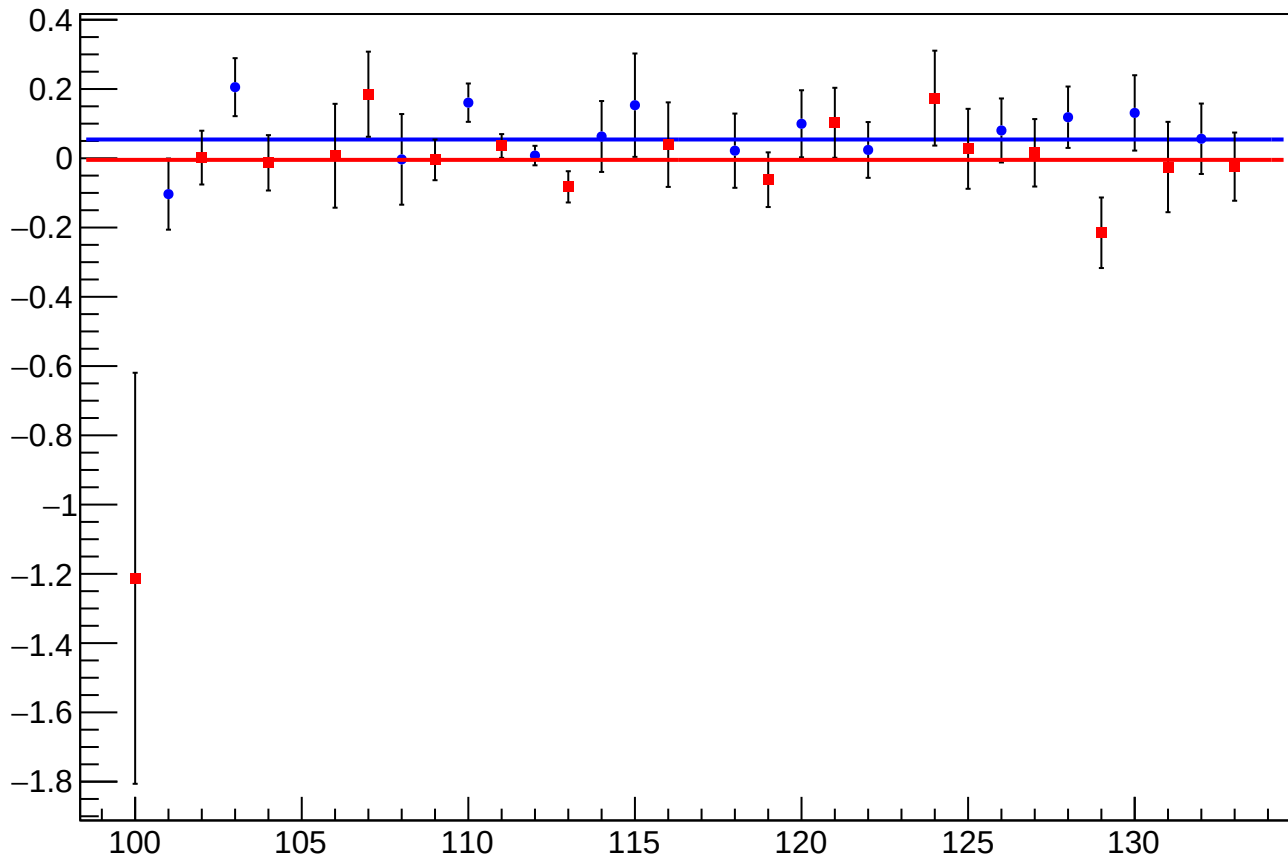
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1711788.5/30

- 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: 0.054 $\pm$ 0.019  $\chi^2$ /NDF: 14.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.005 $\pm$ 0.019  $\chi^2$ /NDF: 18.8/16

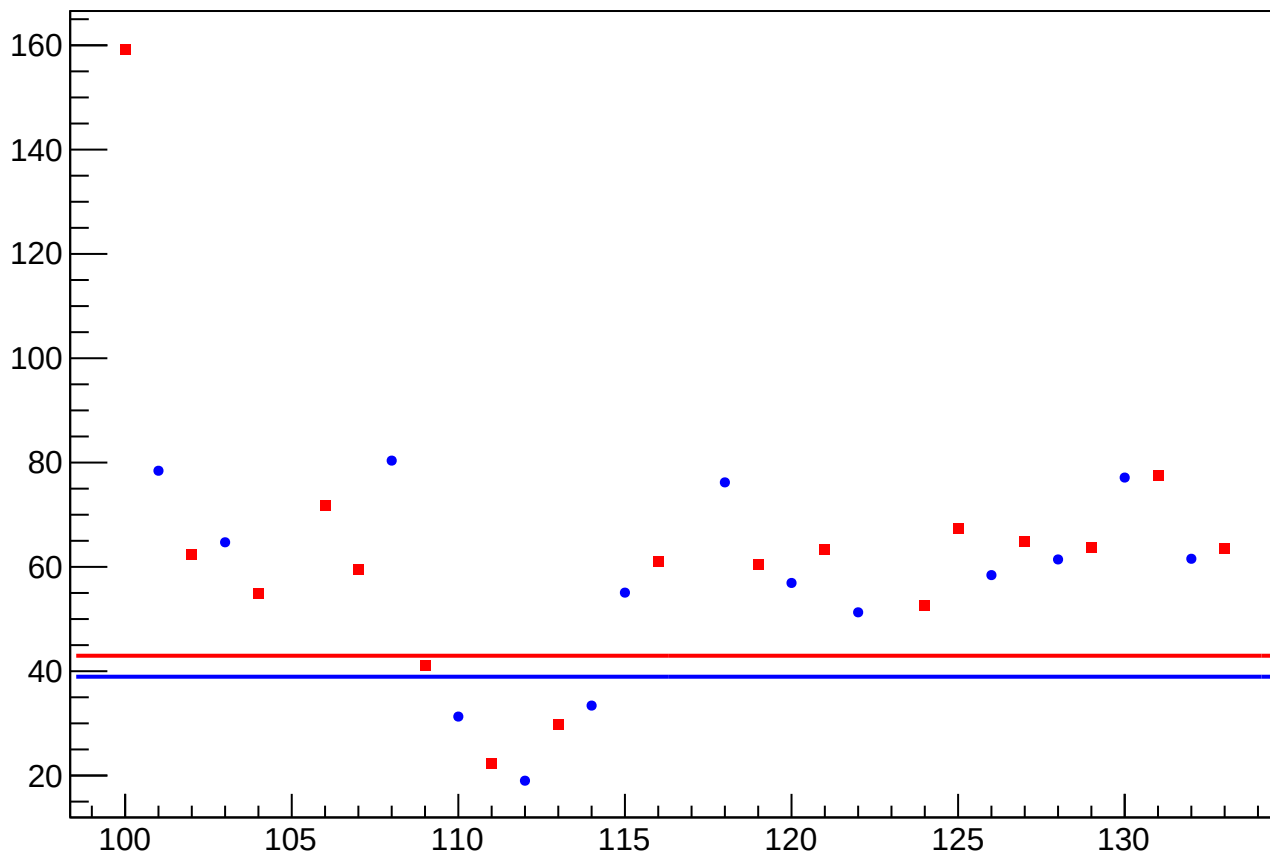
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.013  $\chi^2$ /NDF: 37.9/30

- 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: 38.944+/-0.013  $\chi^2/\text{NDF}$ : 2675809.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 42.966+/-0.013  $\chi^2/\text{NDF}$ : 1991955.4/16

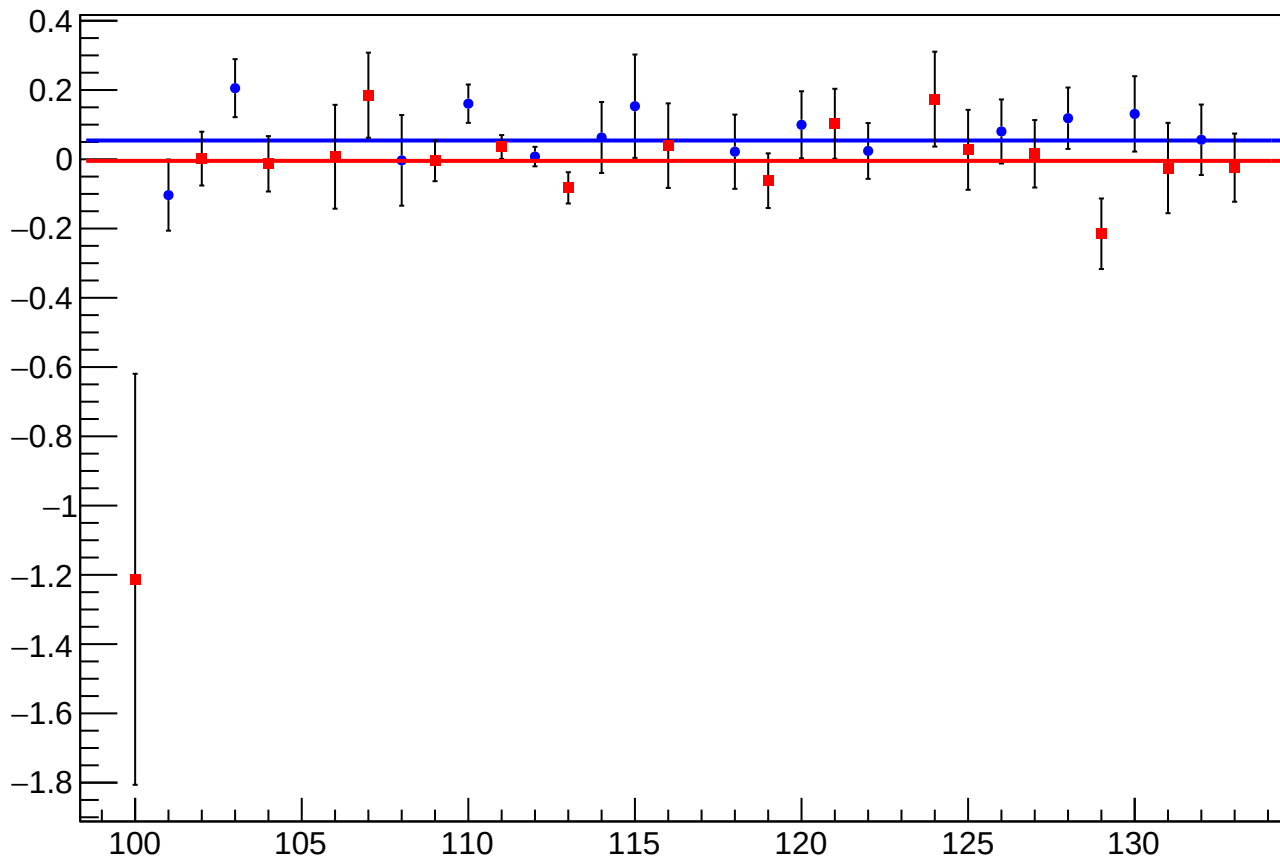
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.986+/-0.009  $\chi^2/\text{NDF}$ : 4713693.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.054 $\pm$ 0.019  $\chi^2$ /NDF: 14.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.005 $\pm$ 0.019  $\chi^2$ /NDF: 18.8/16

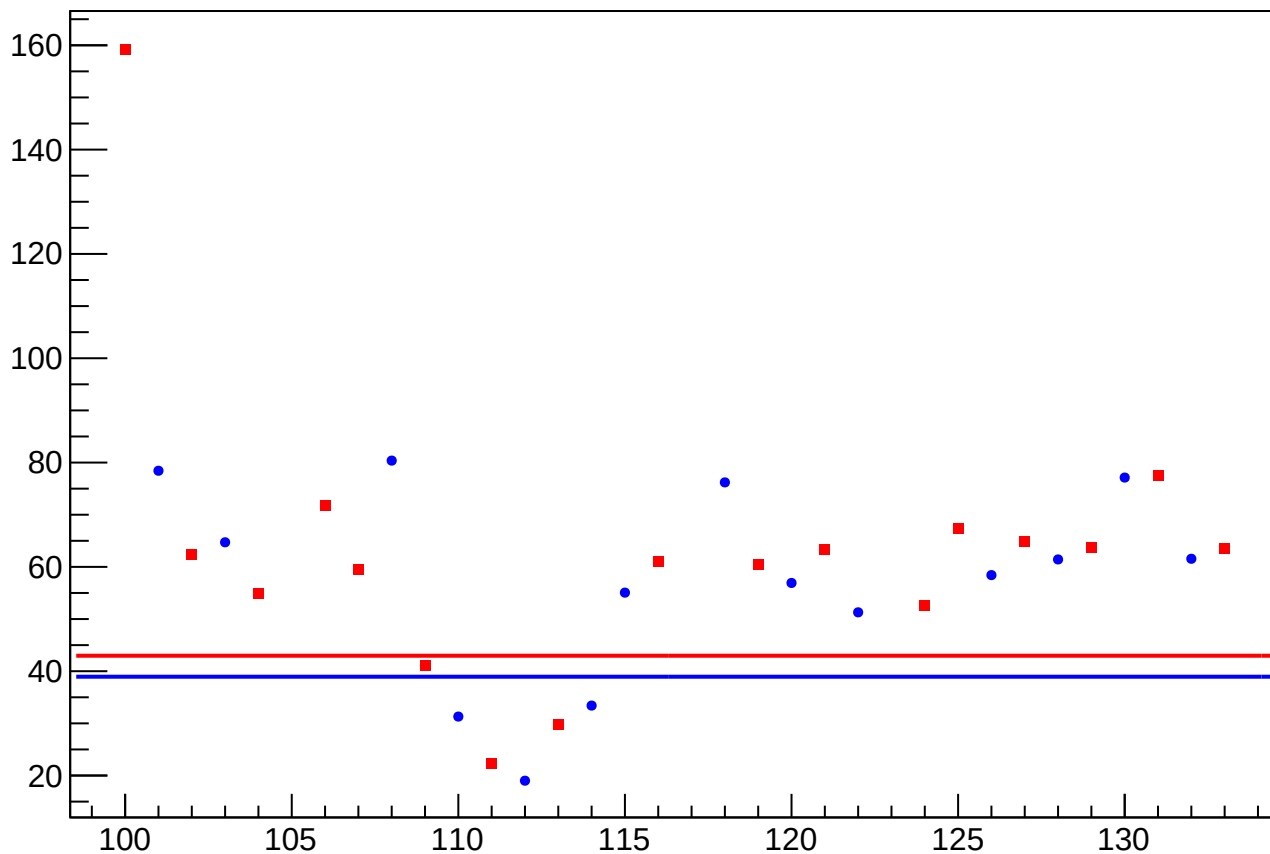
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.013  $\chi^2$ /NDF: 37.9/30

- 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: 38.944+/-0.013  $\chi^2/\text{NDF}$ : 2675809.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 42.966+/-0.013  $\chi^2/\text{NDF}$ : 1991955.4/16

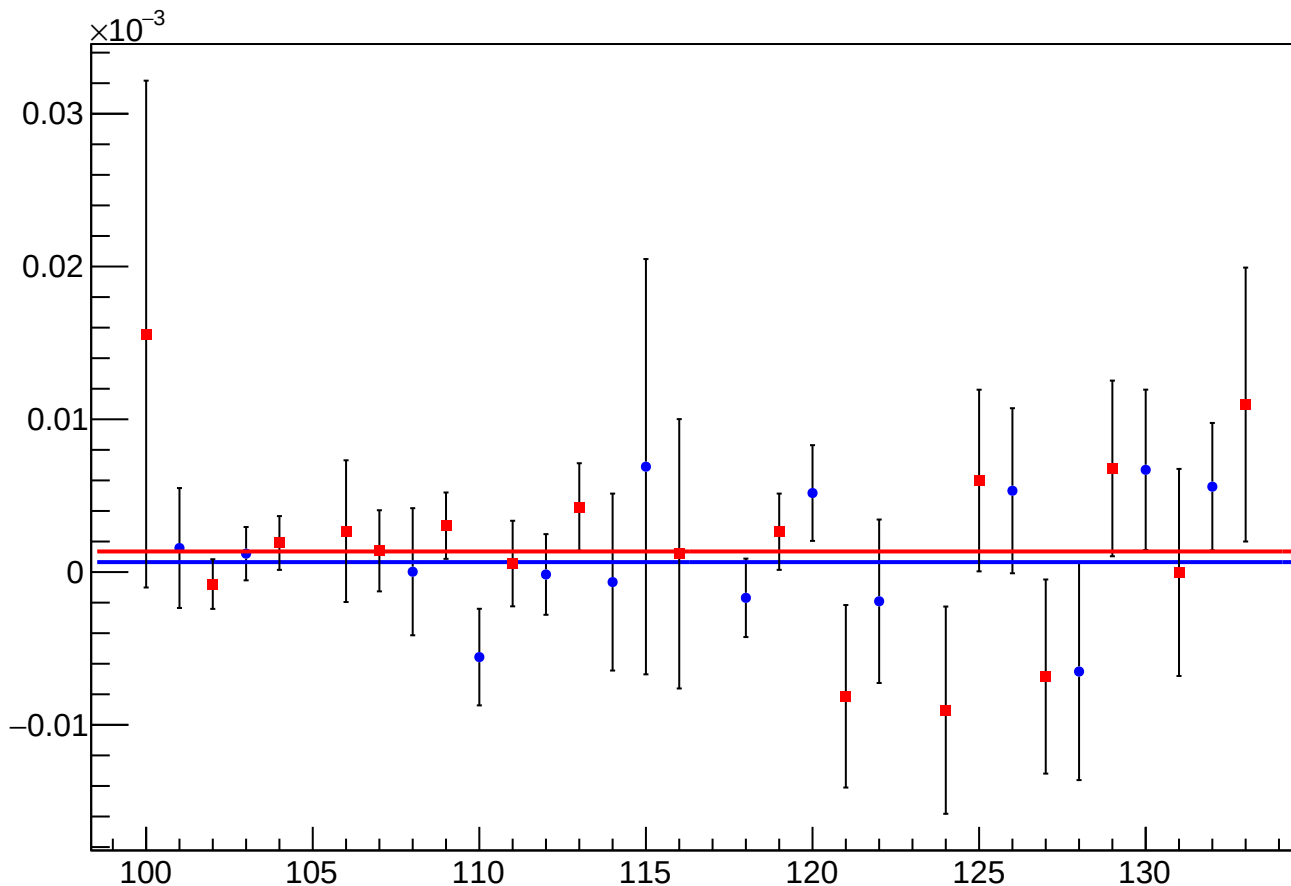
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.986+/-0.009  $\chi^2/\text{NDF}$ : 4713693.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.8/16

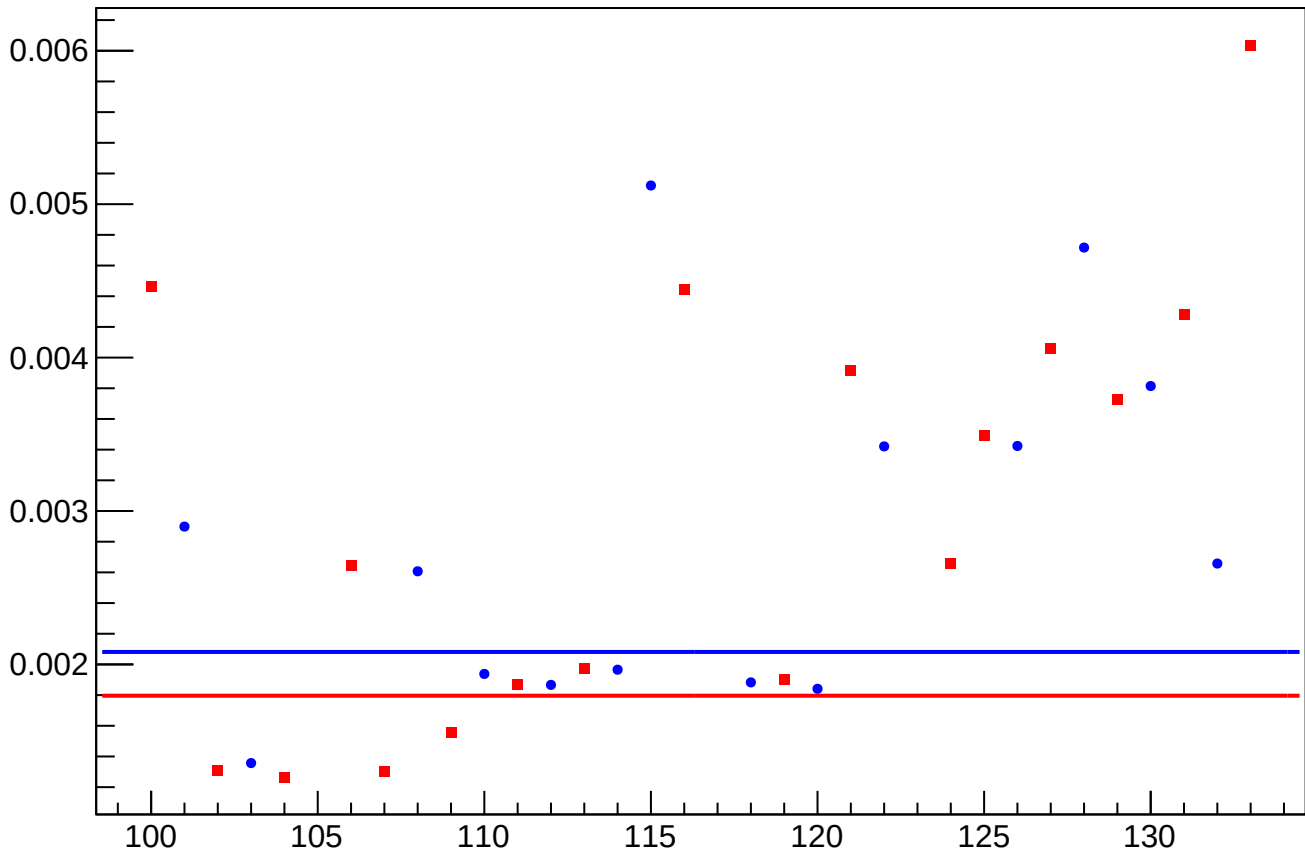
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 26.2/30

- 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  $\chi^2/\text{NDF}$ : 1385592.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2415400.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

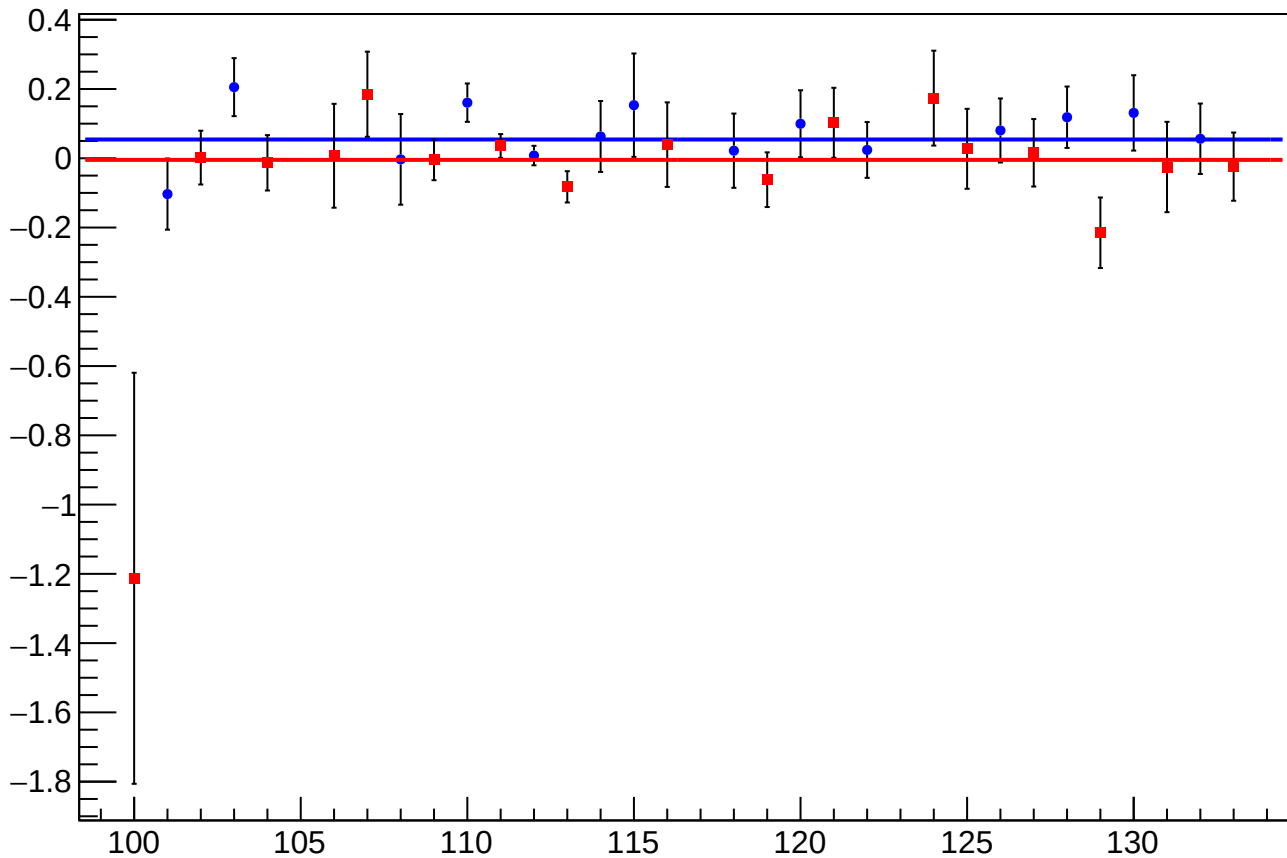
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3913497.9/30

- 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: 0.054 $\pm$ 0.019  $\chi^2$ /NDF: 14.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.005 $\pm$ 0.019  $\chi^2$ /NDF: 18.8/16

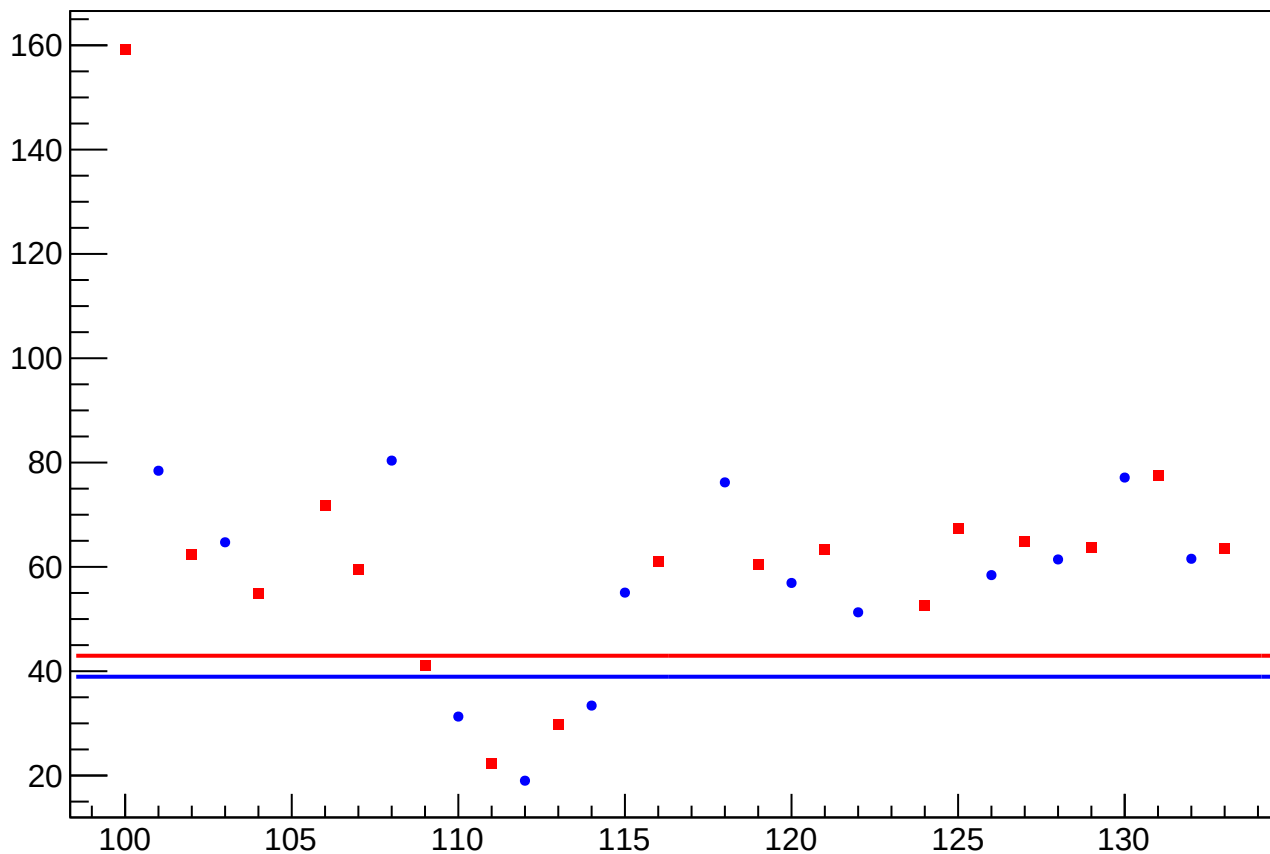
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.013  $\chi^2$ /NDF: 37.9/30

- 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: 38.943+/-0.013  $\chi^2/\text{NDF}$ : 2675942.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 42.965+/-0.013  $\chi^2/\text{NDF}$ : 1992117.9/16

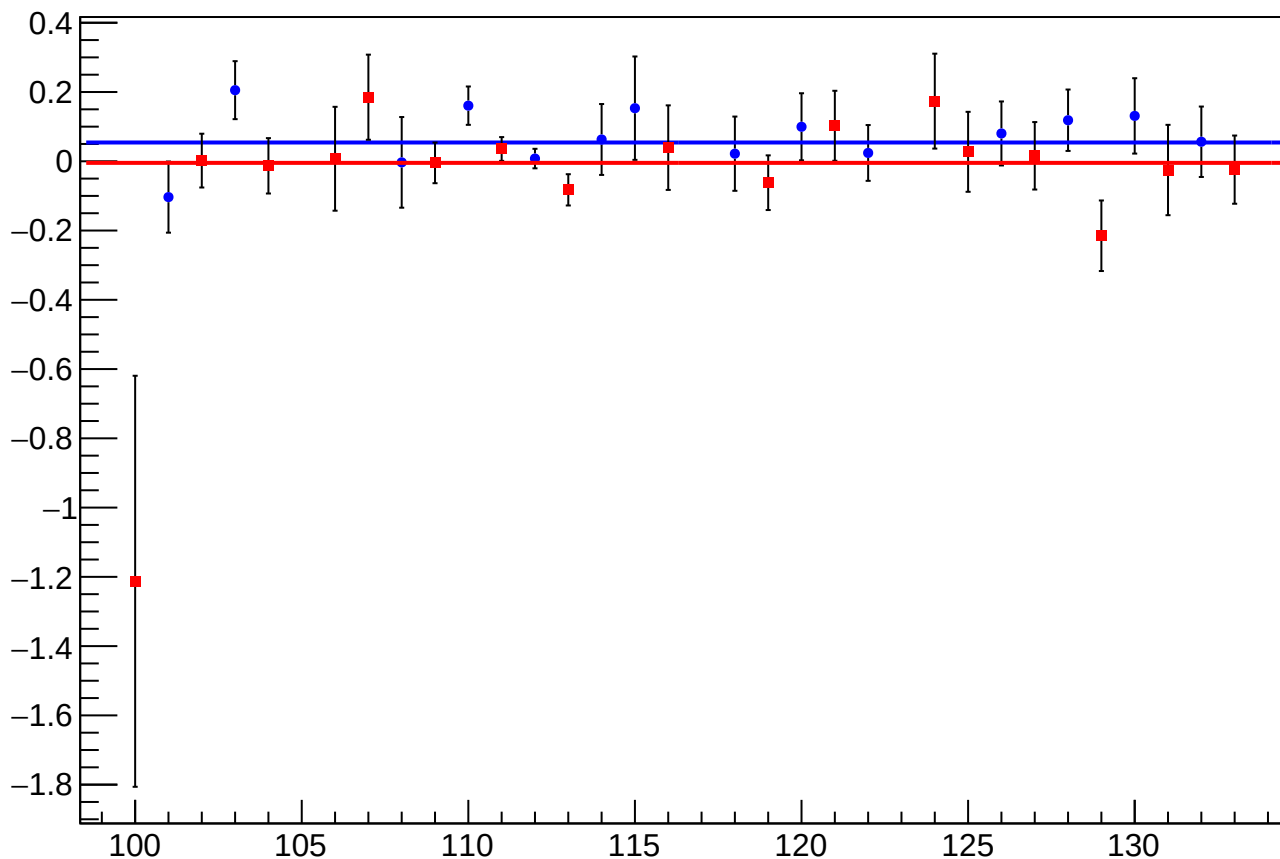
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.985+/-0.009  $\chi^2/\text{NDF}$ : 4713990.7/30

- 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: 0.054 $\pm$ 0.019  $\chi^2$ /NDF: 14.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.005 $\pm$ 0.019  $\chi^2$ /NDF: 18.8/16

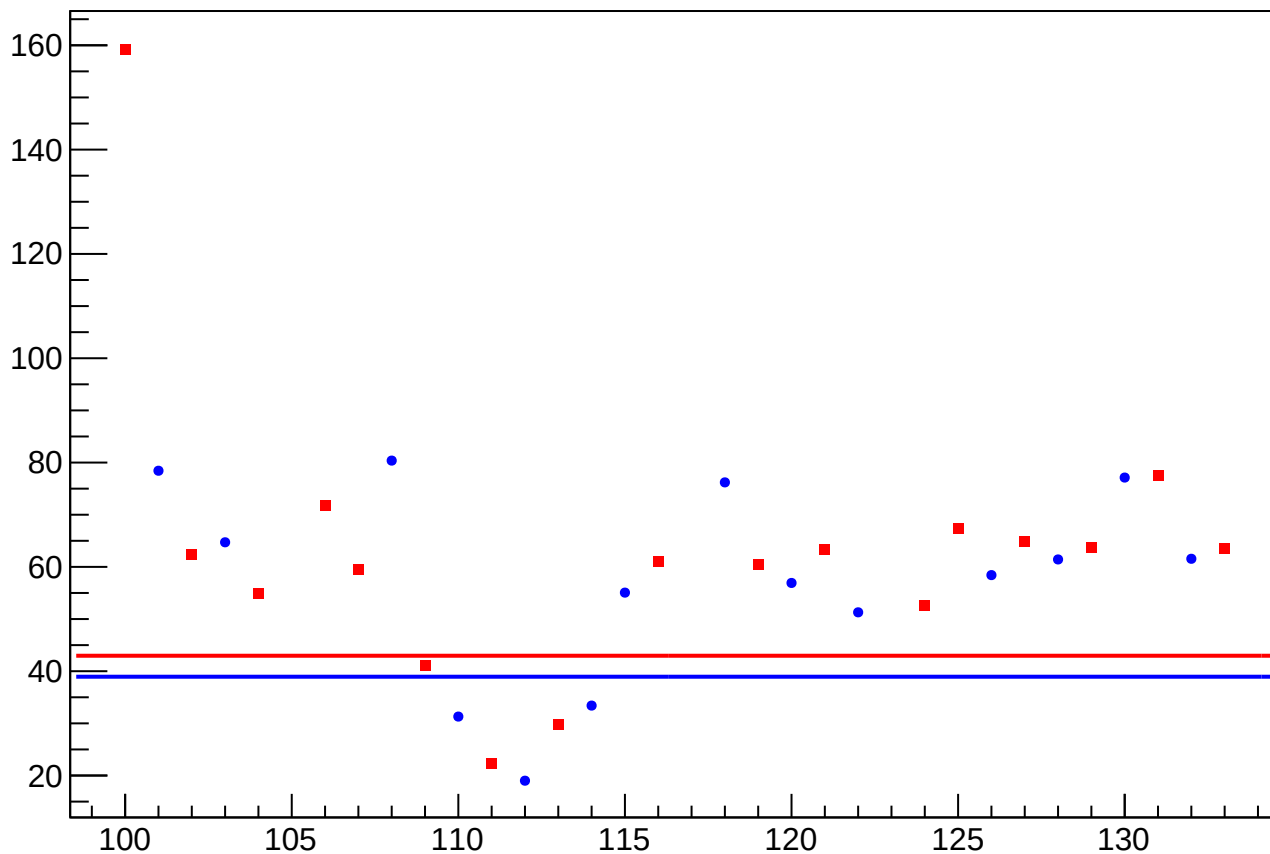
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.024 $\pm$ 0.013  $\chi^2$ /NDF: 37.9/30

- 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: 38.943+/-0.013  $\chi^2/\text{NDF}$ : 2675942.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 42.965+/-0.013  $\chi^2/\text{NDF}$ : 1992117.9/16

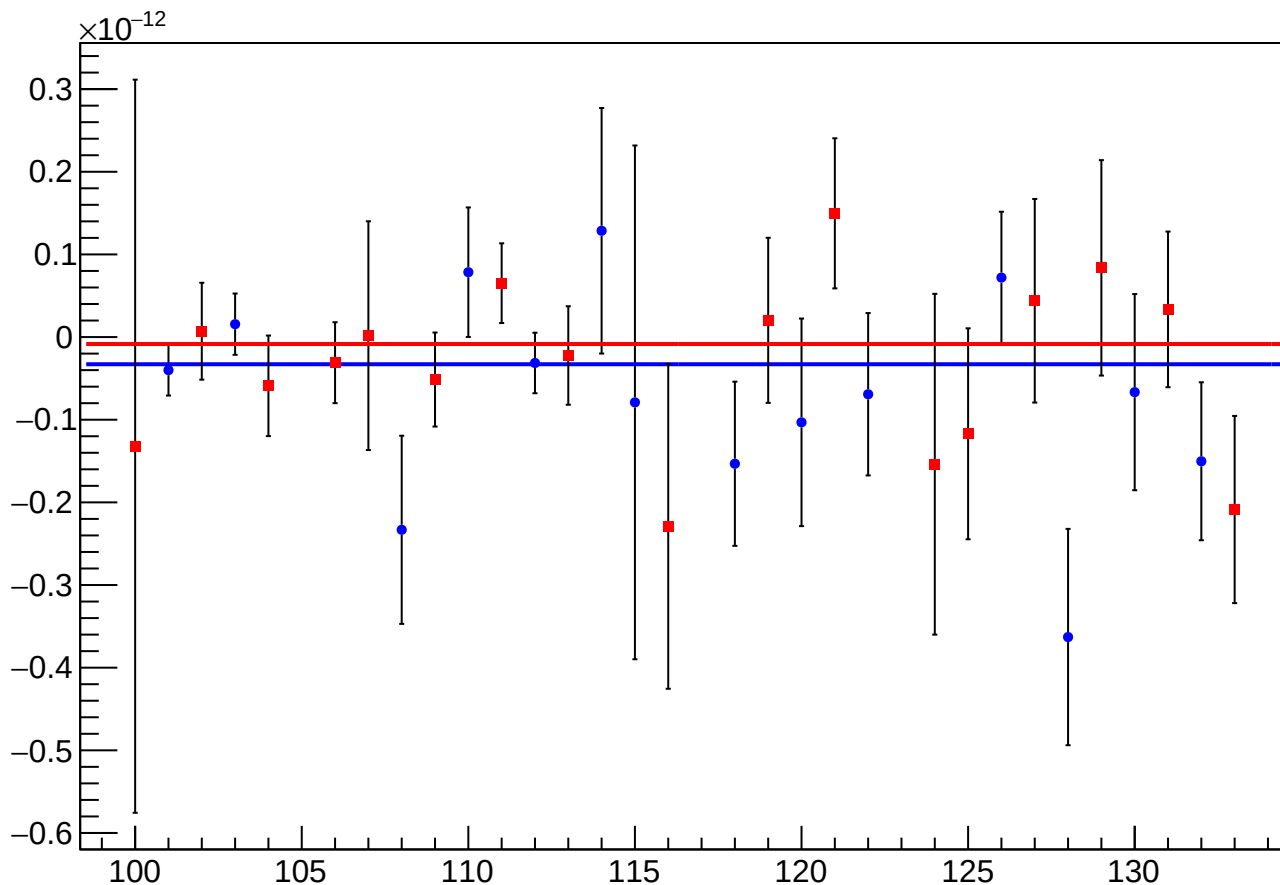
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.985+/-0.009  $\chi^2/\text{NDF}$ : 4713990.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.6/16

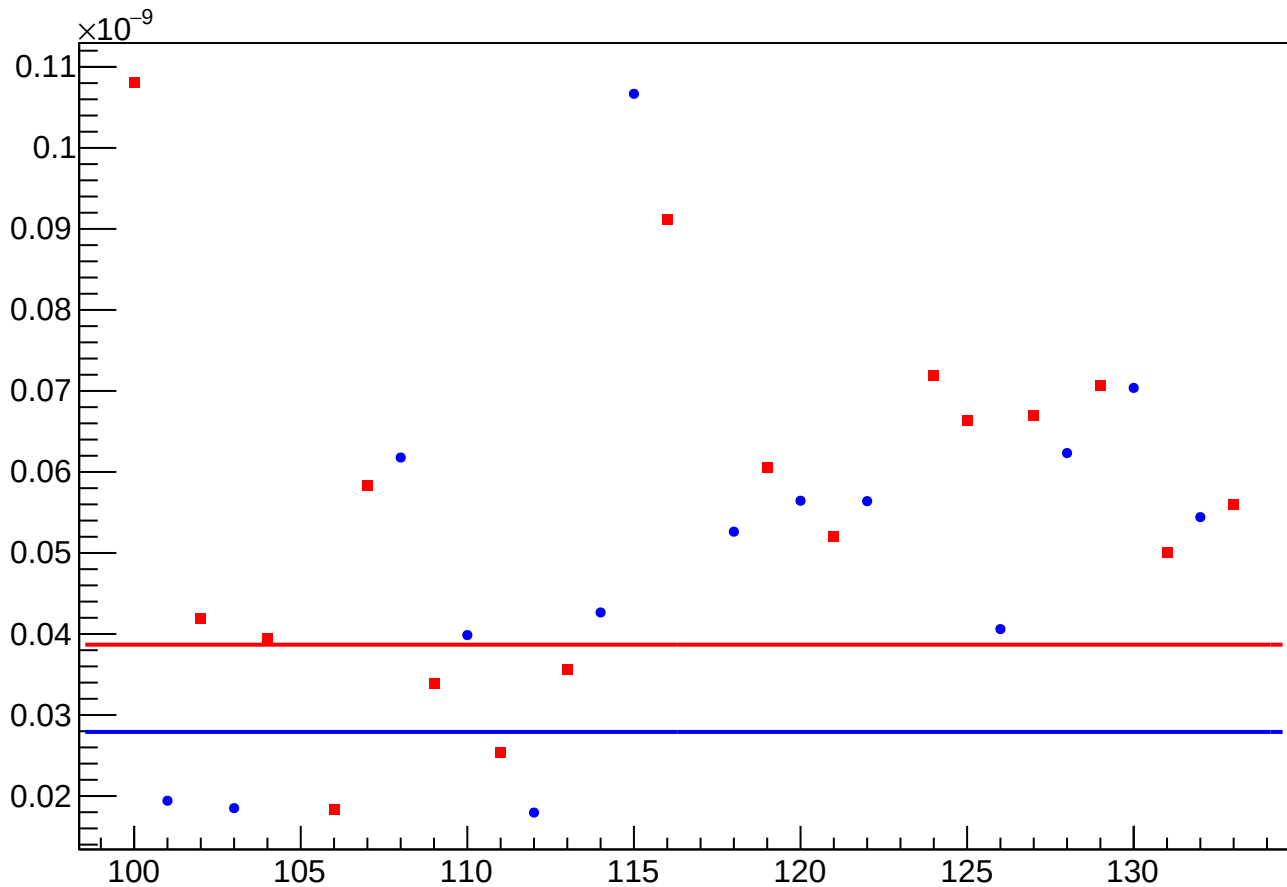
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 34.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1795408.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1344082.6/16

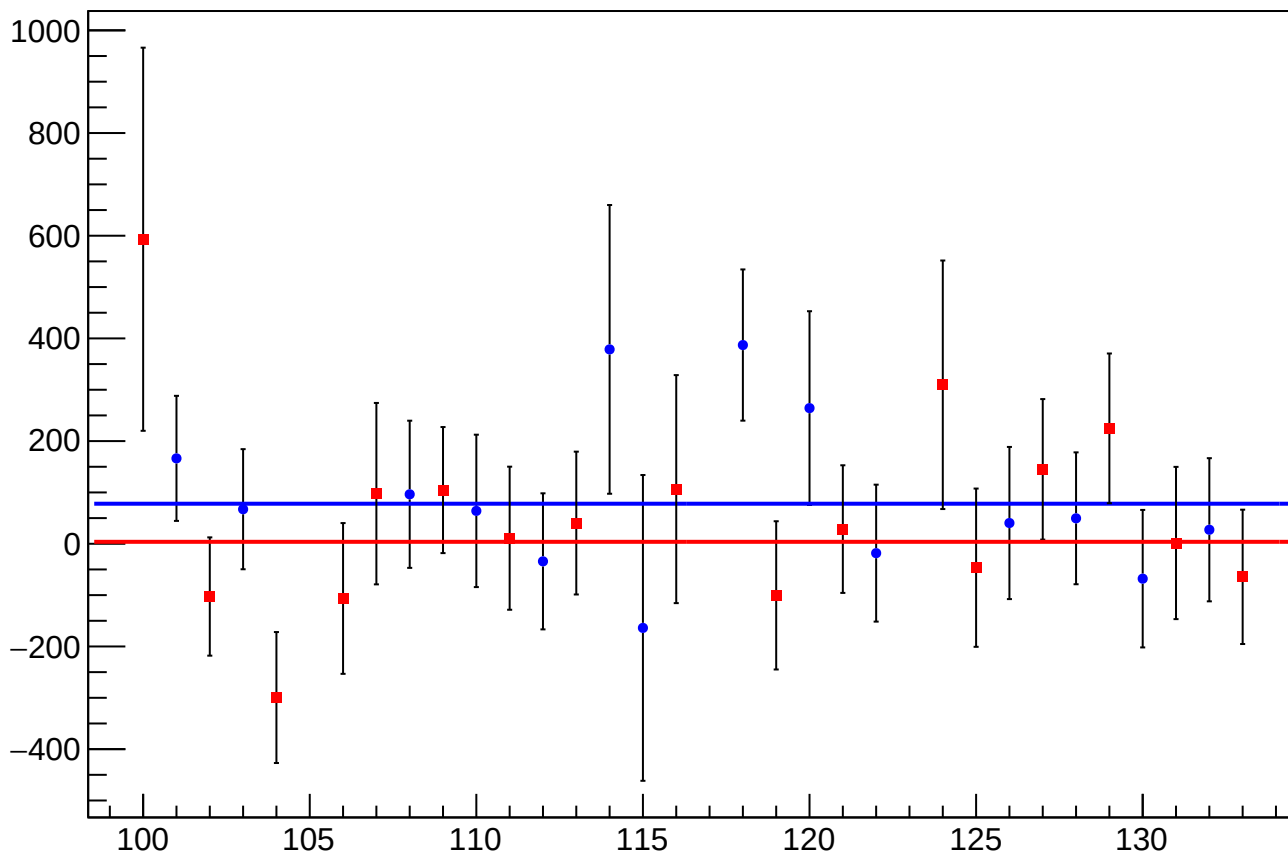
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3493138.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 78.024+/-38.946  $\chi^2/\text{NDF}$ : 10.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.826+/-35.613  $\chi^2/\text{NDF}$ : 16.7/16

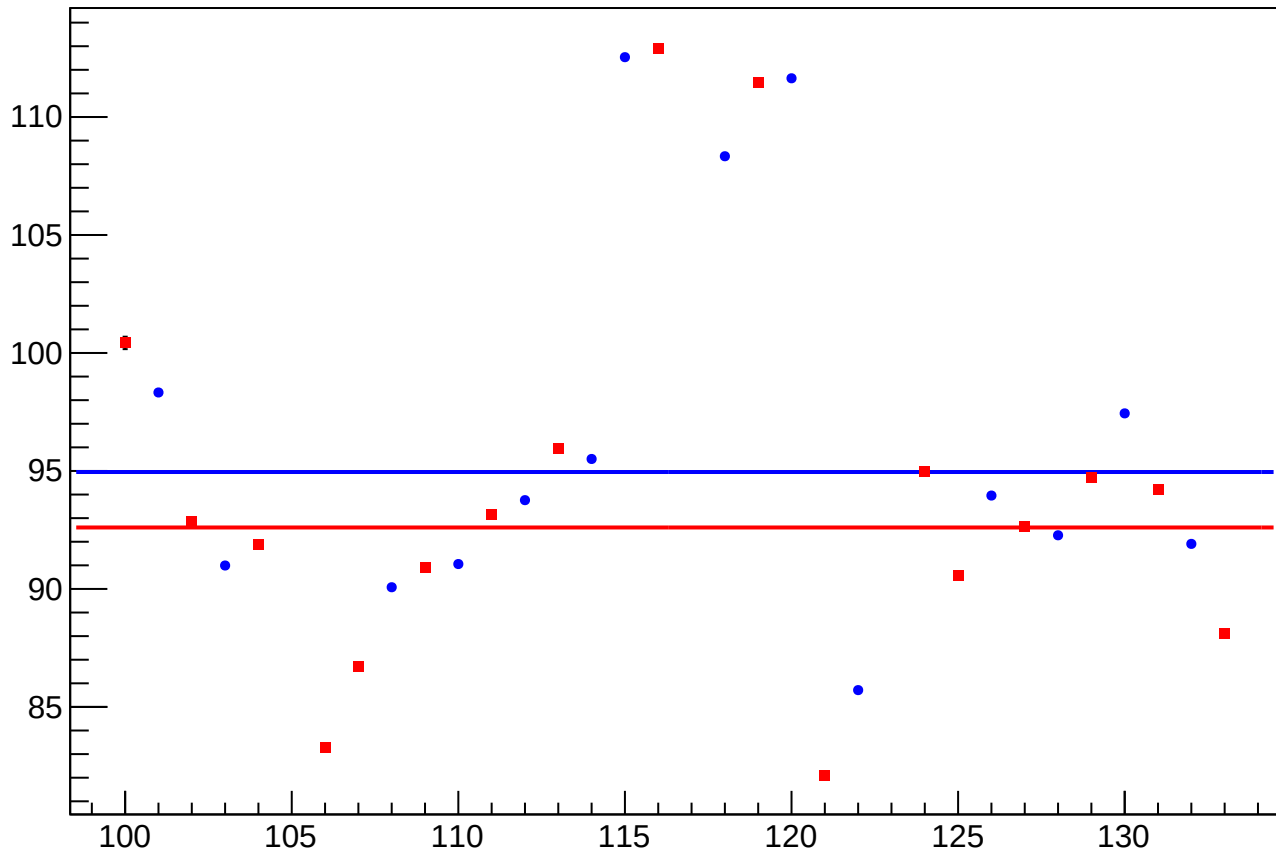
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.614+/-26.282  $\chi^2/\text{NDF}$ : 29.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 94.955+/-0.028  $\chi^2/\text{NDF}$ : 59037.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 92.605+/-0.025  $\chi^2/\text{NDF}$ : 81572.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

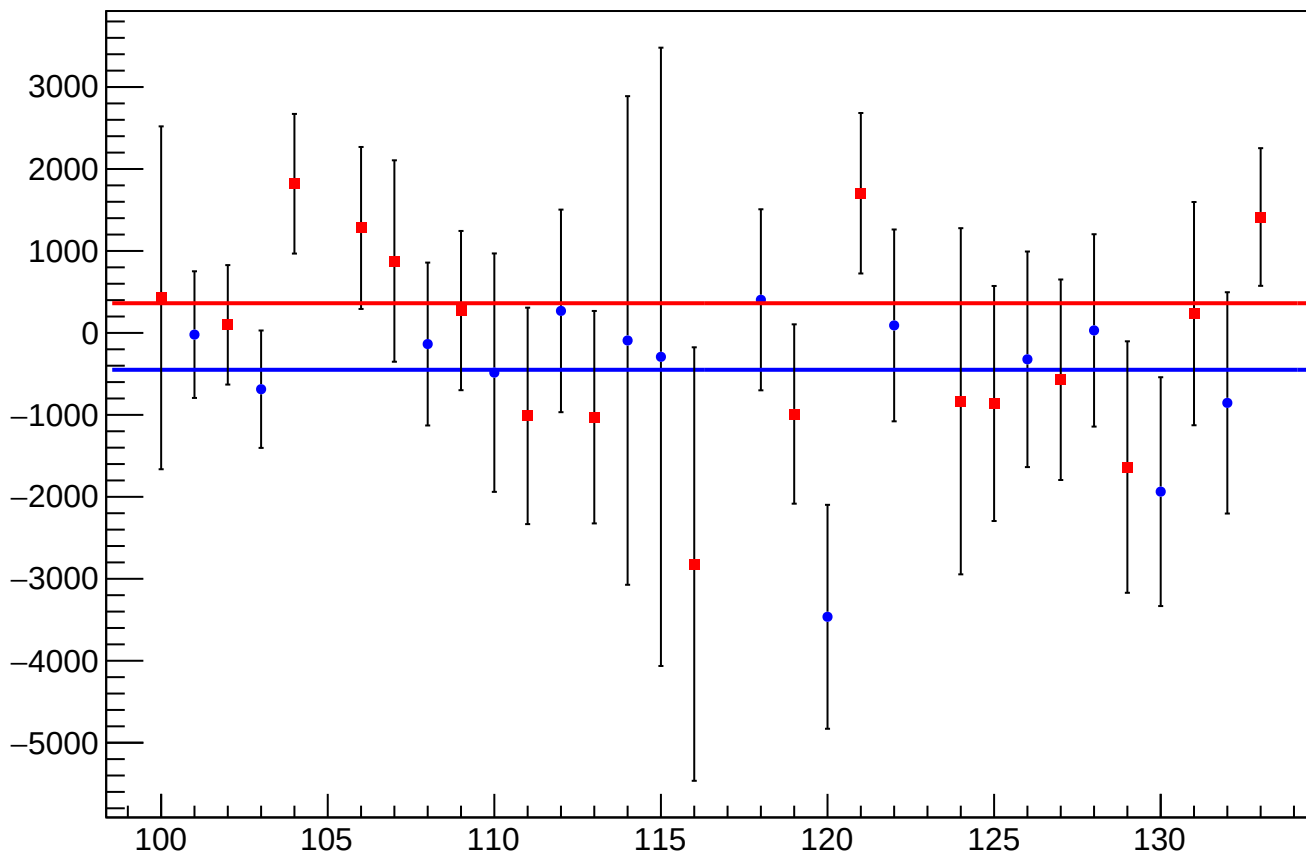
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 93.675+/-0.019  $\chi^2/\text{NDF}$ : 144579.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_15\_dd\_reg\_correction\_mean vs Slug



Right In: -449.893+/-310.096  $\chi^2/\text{NDF}$ : 8.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 362.224+/-275.385  $\chi^2/\text{NDF}$ : 16.1/16

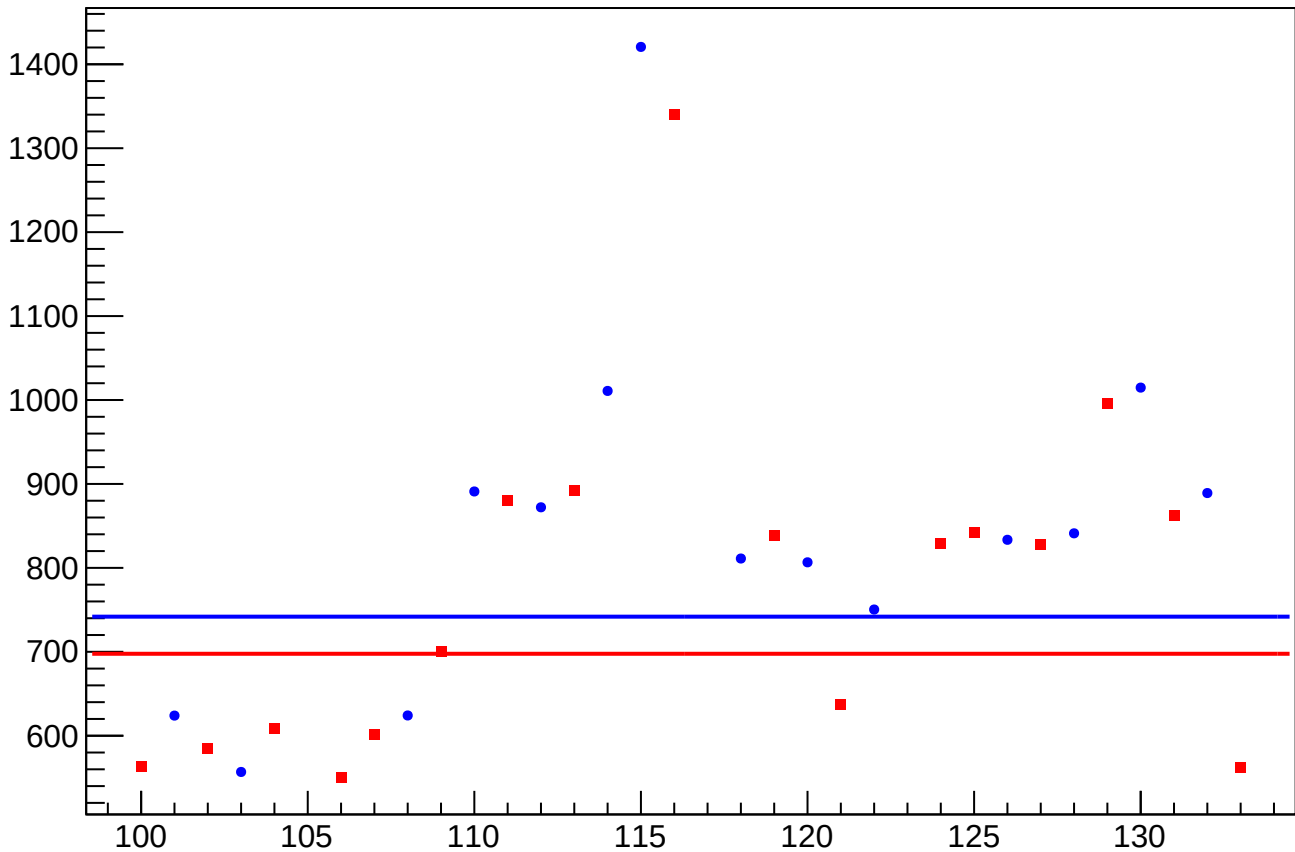
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.145+/-205.910  $\chi^2/\text{NDF}$ : 27.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_reg\_correction\_rms vs Slug



Right In: 741.878+/-0.219  $\chi^2/\text{NDF}$ : 469143.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 697.655+/-0.195  $\chi^2/\text{NDF}$ : 583040.6/16

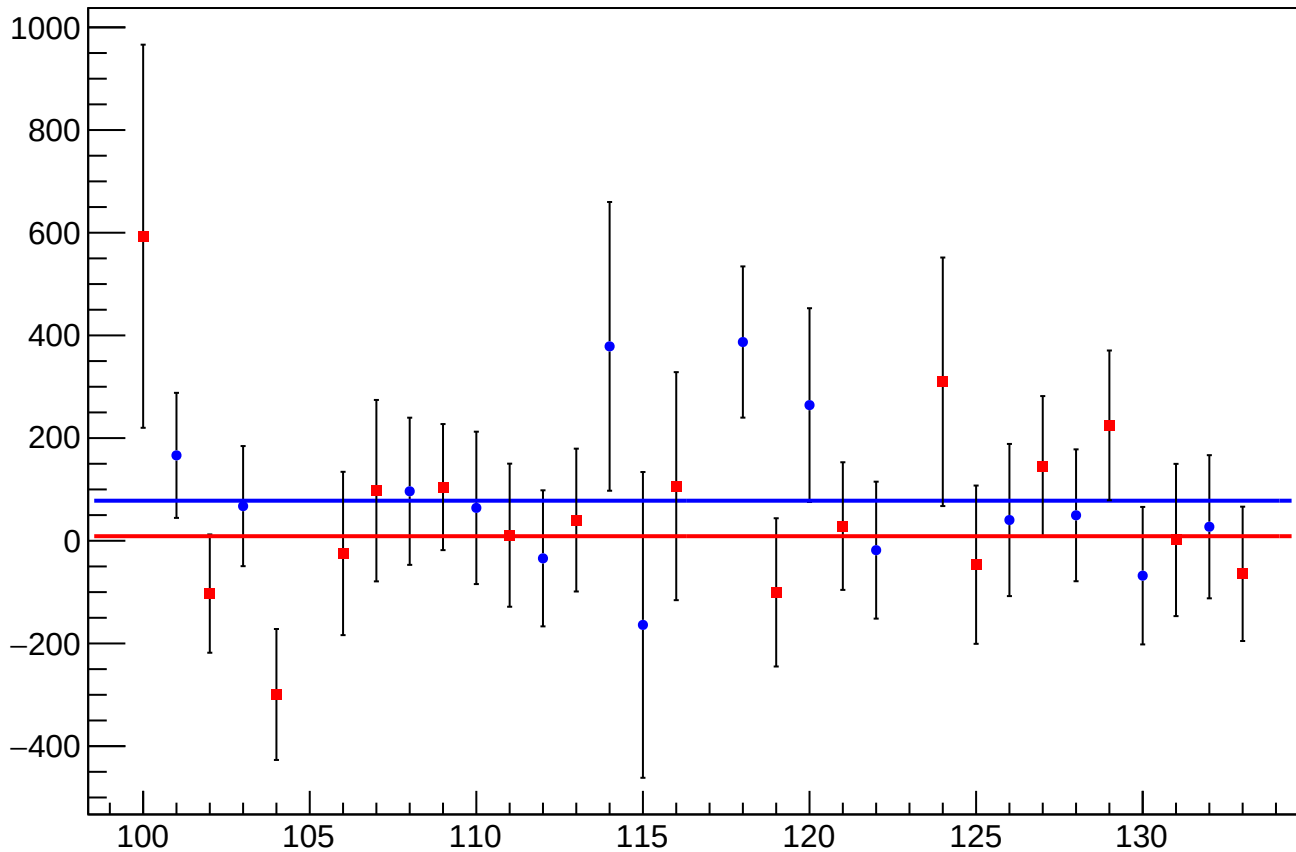
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 717.153+/-0.146  $\chi^2/\text{NDF}$ : 1074924.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 78.050+/-38.946  $\chi^2/\text{NDF}$ : 10.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.920+/-35.768  $\chi^2/\text{NDF}$ : 16.2/16

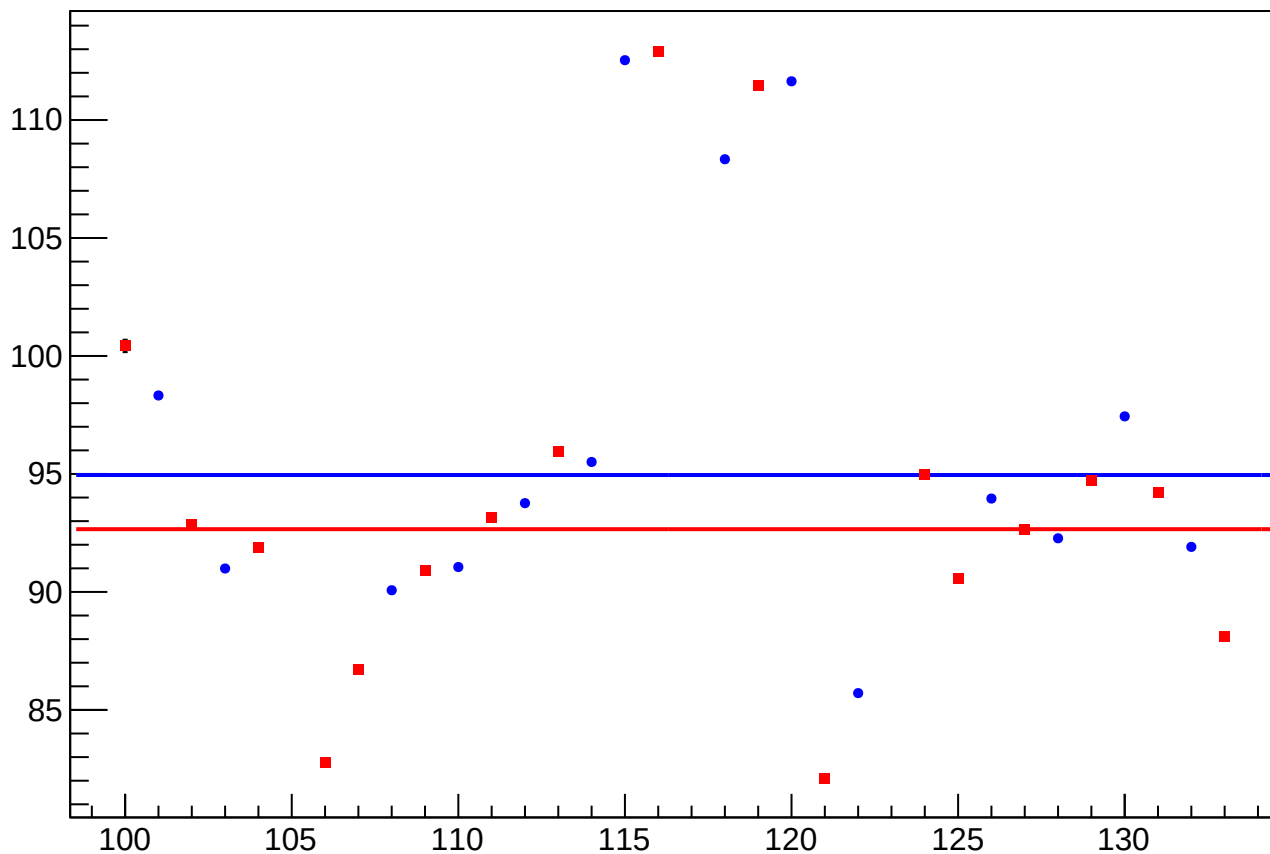
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.550+/-26.344  $\chi^2/\text{NDF}$ : 28.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 94.955+/-0.028  $\chi^2/\text{NDF}$ : 59037.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 92.660+/-0.025  $\chi^2/\text{NDF}$ : 81190.3/16

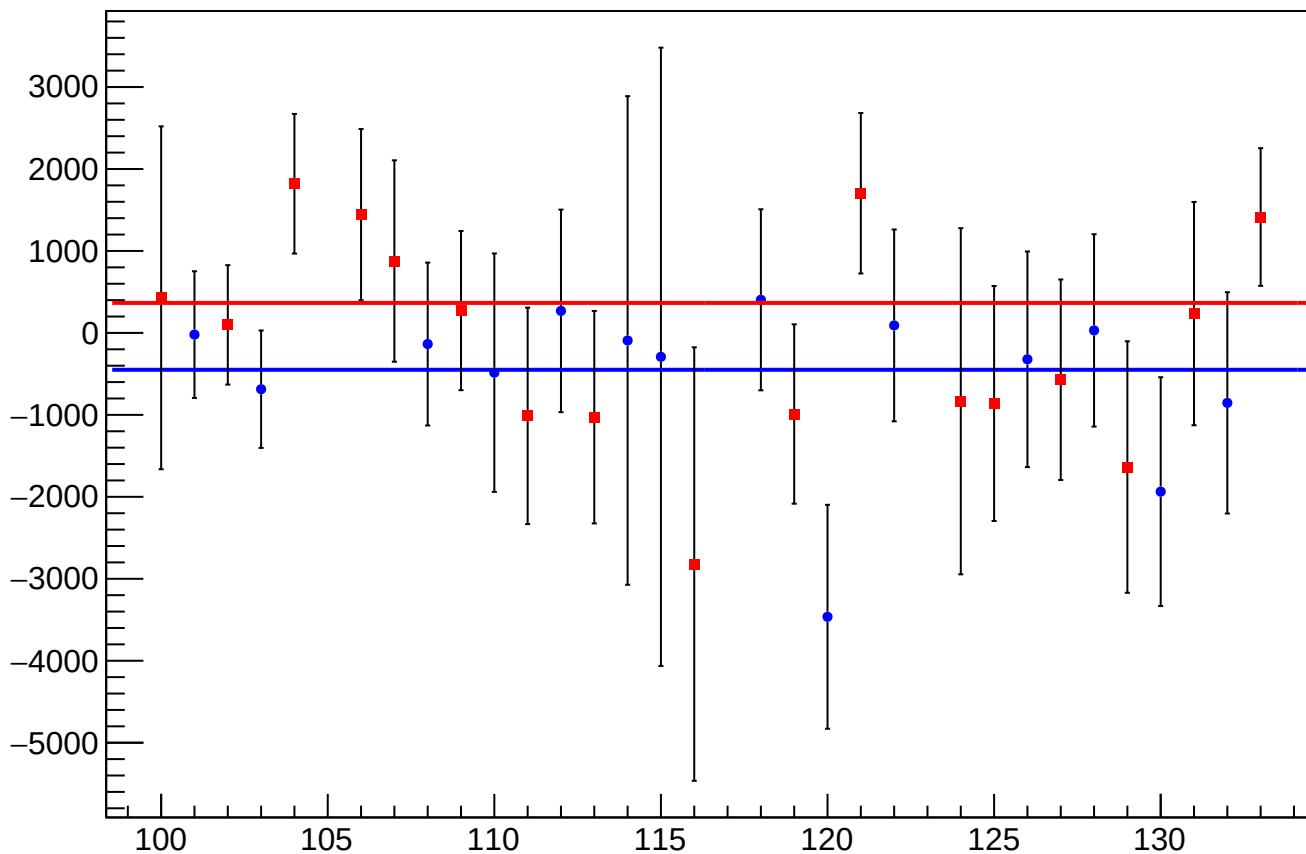
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 93.710+/-0.019  $\chi^2/\text{NDF}$ : 143998.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_cor\_correction\_mean vs Slug



Right In: -449.885+/-310.096  $\chi^2/\text{NDF}$ : 8.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 366.088+/-276.507  $\chi^2/\text{NDF}$ : 16.3/16

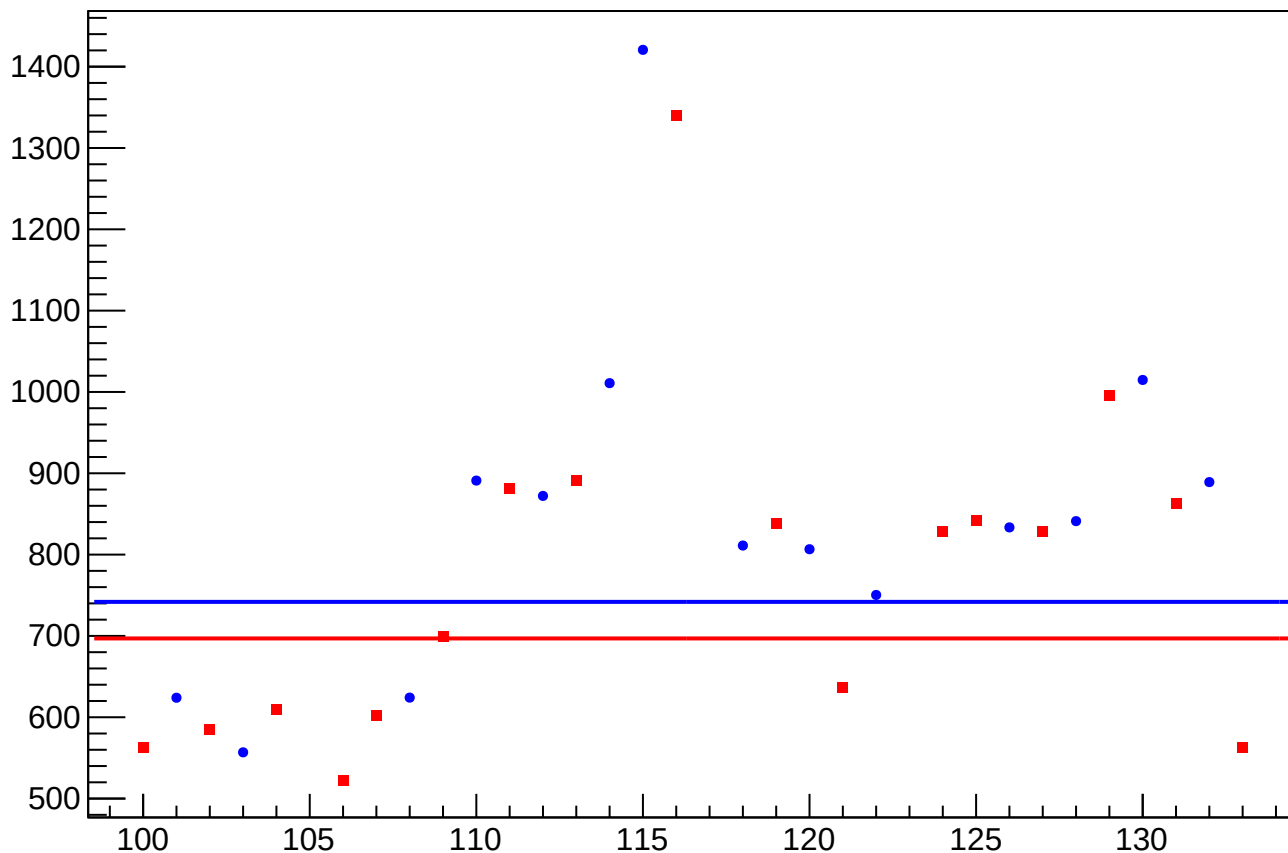
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.670+/-206.377  $\chi^2/\text{NDF}$ : 28.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_cor\_correction\_rms vs Slug



Right In: 741.877 $\pm$ 0.219  $\chi^2$ /NDF: 469148.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 696.899 $\pm$ 0.196  $\chi^2$ /NDF: 594913.4/16

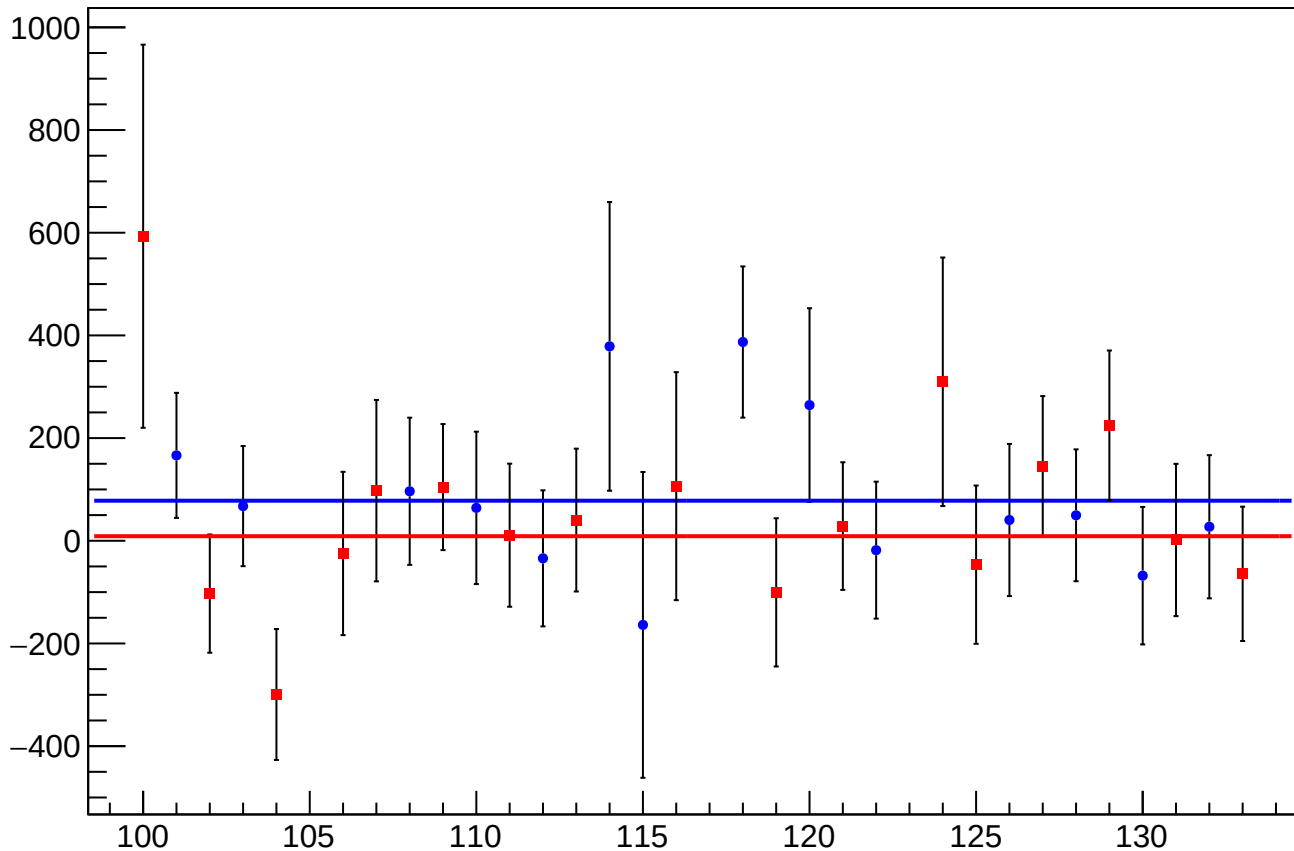
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 716.821 $\pm$ 0.146  $\chi^2$ /NDF: 1087501.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 78.050+/-38.946  $\chi^2/\text{NDF}$ : 10.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.920+/-35.768  $\chi^2/\text{NDF}$ : 16.2/16

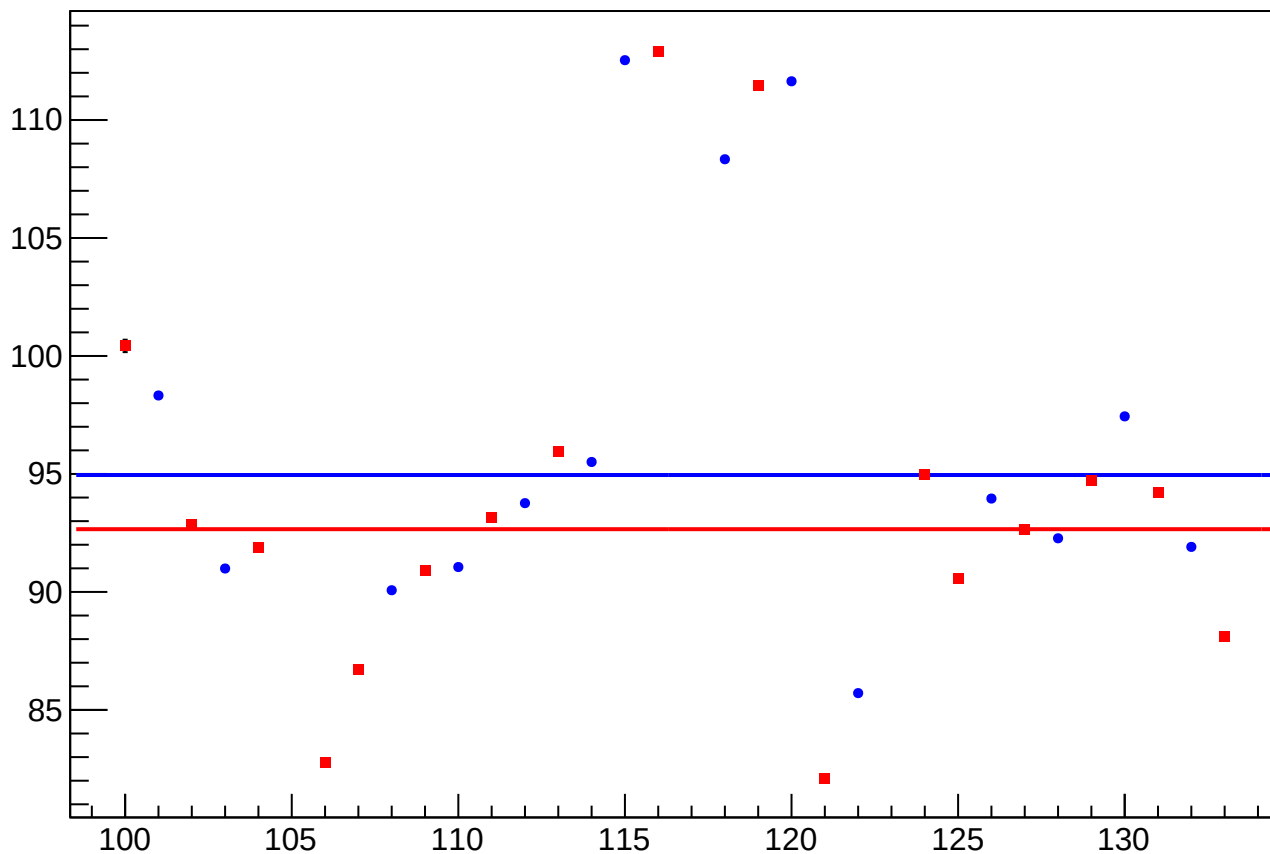
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.550+/-26.344  $\chi^2/\text{NDF}$ : 28.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 94.955+/-0.028  $\chi^2/\text{NDF}$ : 59037.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 92.660+/-0.025  $\chi^2/\text{NDF}$ : 81190.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

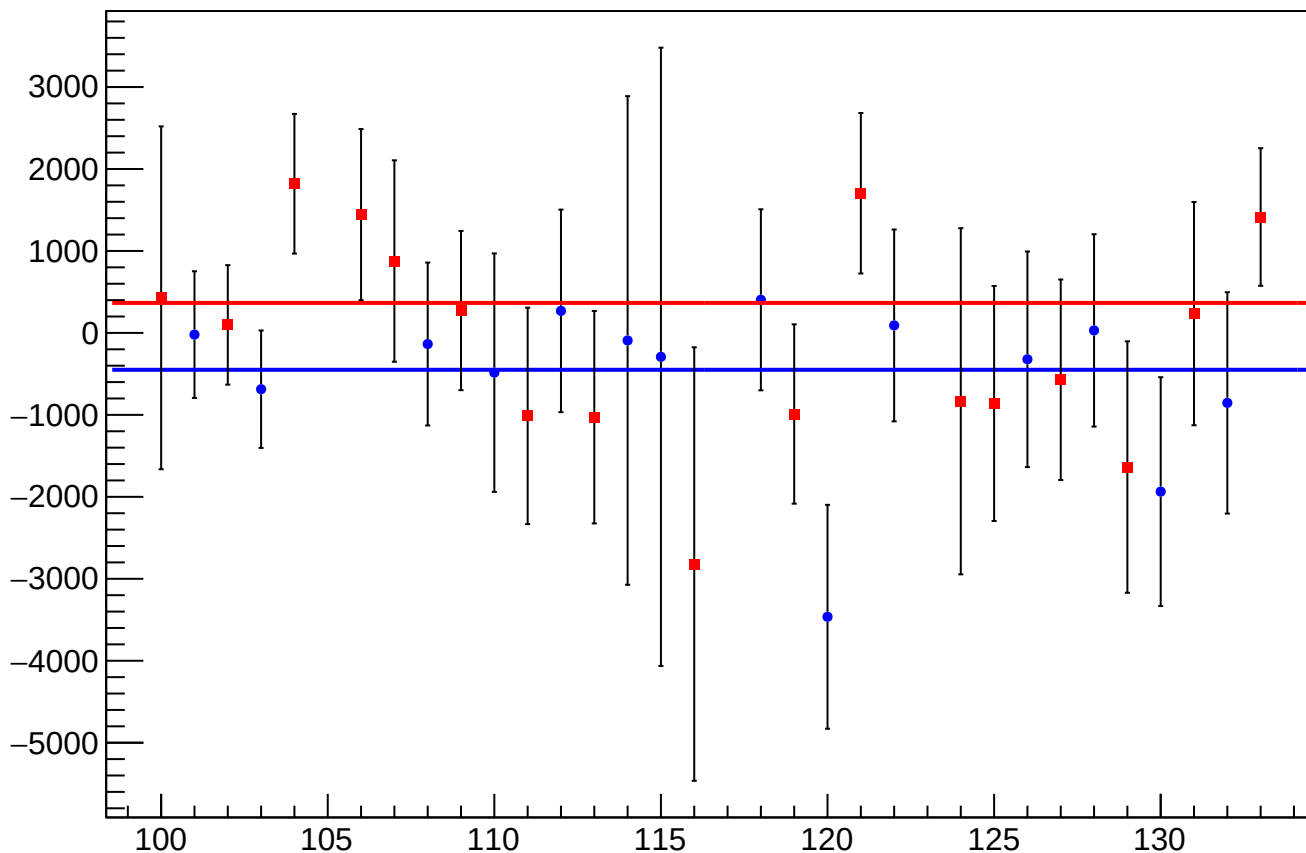
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 93.710+/-0.019  $\chi^2/\text{NDF}$ : 143998.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -449.885+/-310.096  $\chi^2/\text{NDF}$ : 8.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 366.088+/-276.507  $\chi^2/\text{NDF}$ : 16.3/16

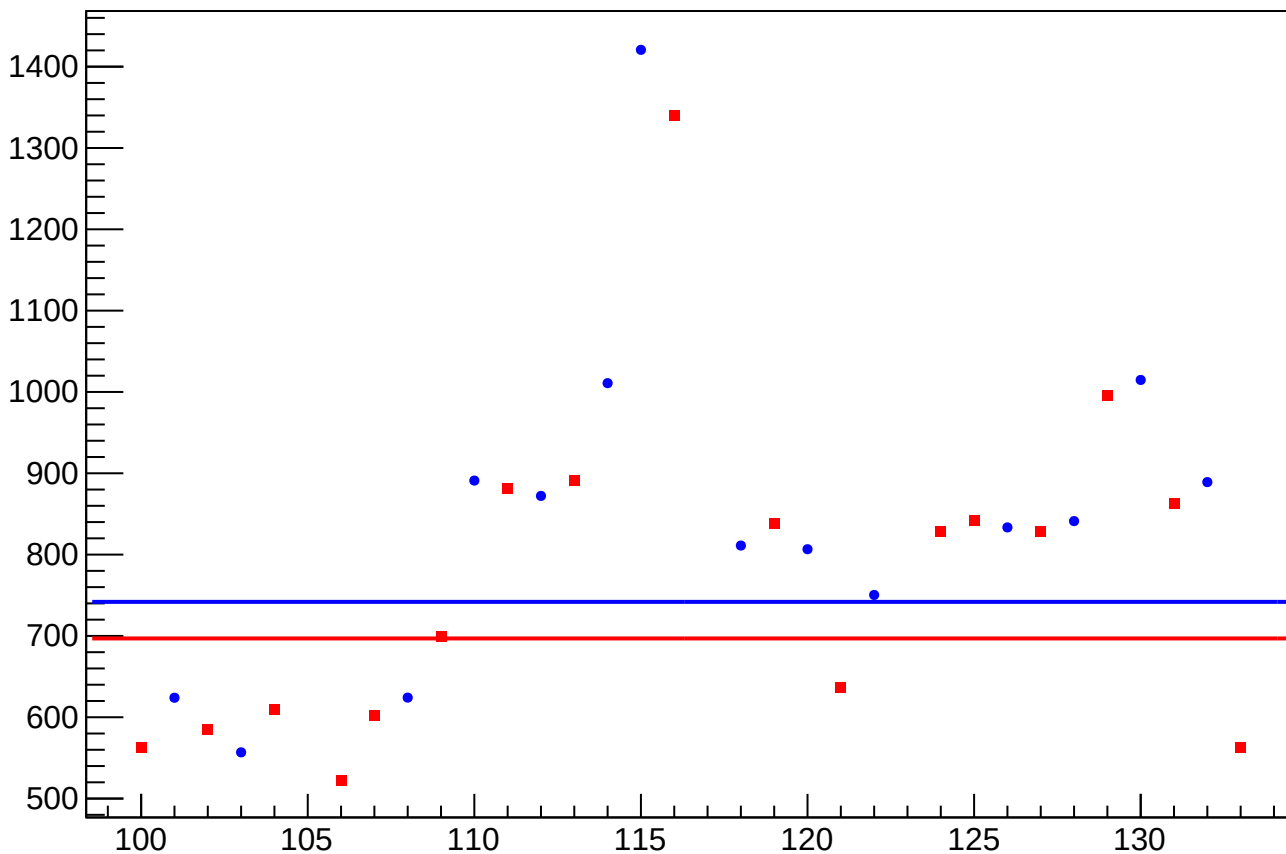
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.670+/-206.377  $\chi^2/\text{NDF}$ : 28.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 741.877+/-0.219  $\chi^2/\text{NDF}$ : 469148.4/13

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

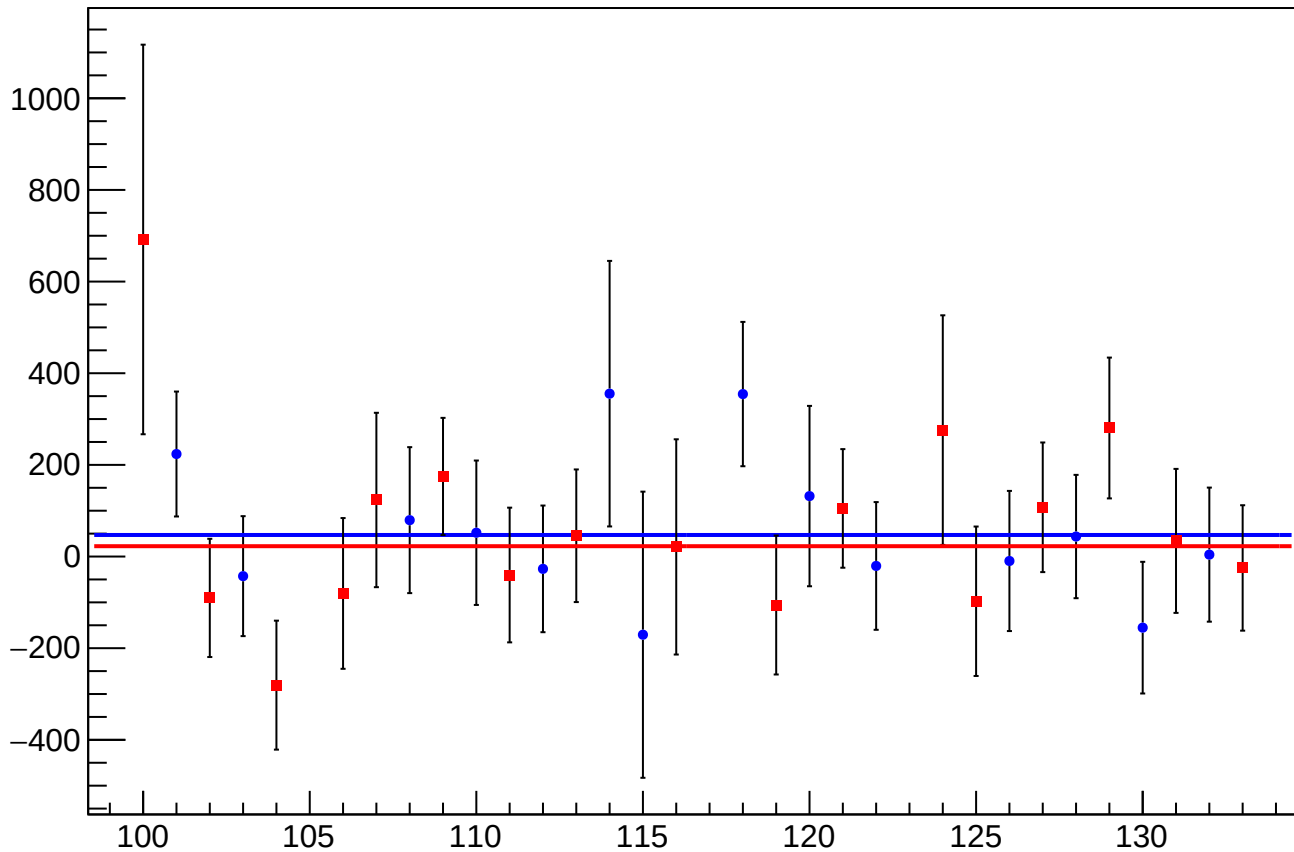
Right Out: 696.899+/-0.196  $\chi^2/\text{NDF}$ : 594913.4/16

All: 716.821+/-0.146  $\chi^2/\text{NDF}$ : 1087501.1/30

- 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\_sam\_15\_dd\_mean vs Slug



Right In: 47.047+/-41.621  $\chi^2/\text{NDF}$ : 10.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.566+/-37.876  $\chi^2/\text{NDF}$ : 16.2/16

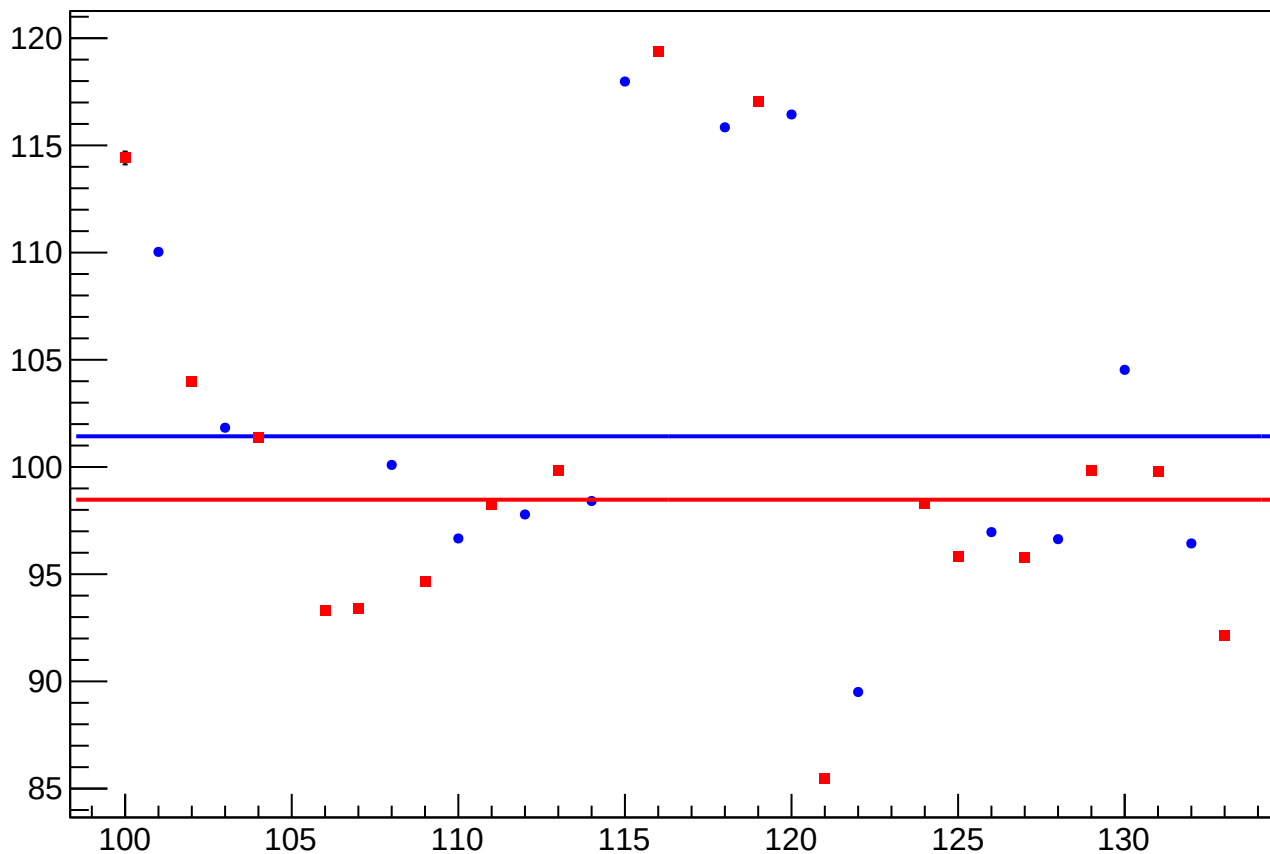
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.655+/-28.013  $\chi^2/\text{NDF}$ : 26.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 101.431 $\pm$ 0.029  $\chi^2$ /NDF: 67726.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 98.475 $\pm$ 0.027  $\chi^2$ /NDF: 84687.8/16

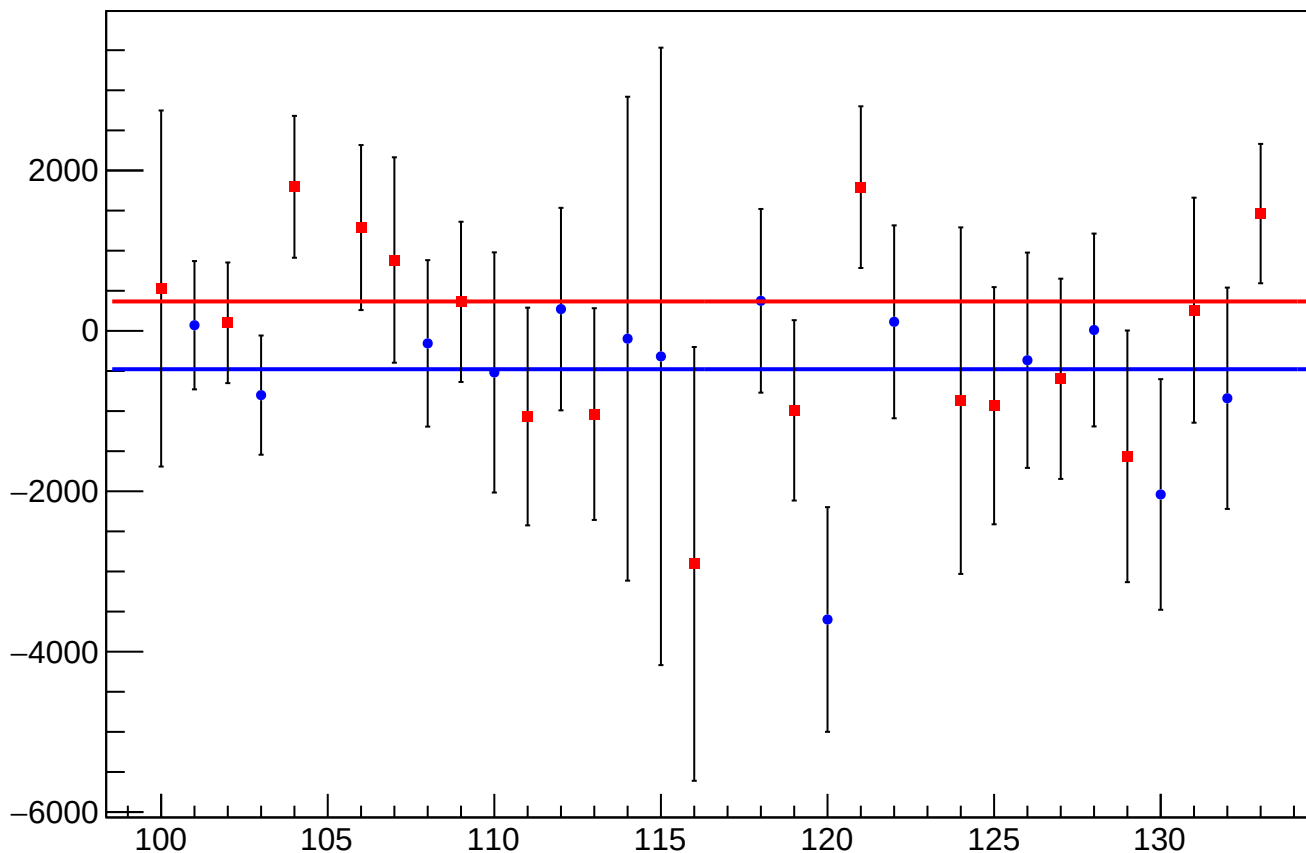
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 99.814 $\pm$ 0.020  $\chi^2$ /NDF: 157934.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_dd\_dit\_correction\_mean vs Slug



Right In:  $-477.906 \pm 319.900$   $\chi^2/\text{NDF}$ : 8.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $366.954 \pm 284.142$   $\chi^2/\text{NDF}$ : 15.7/16

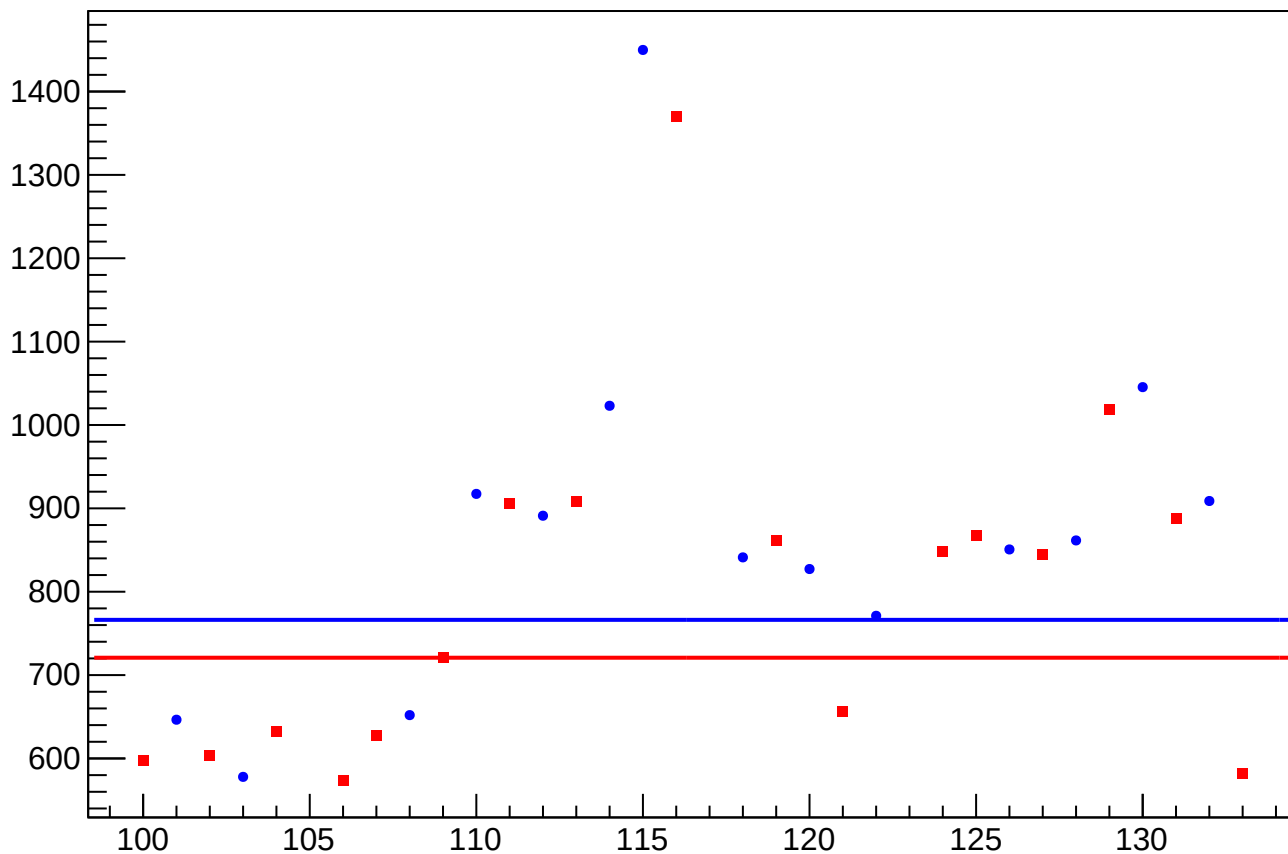
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.637 \pm 212.441$   $\chi^2/\text{NDF}$ : 27.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_dit\_correction\_rms vs Slug



Right In: 766.259 $\pm$ 0.226  $\chi^2$ /NDF: 444652.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 720.836 $\pm$ 0.201  $\chi^2$ /NDF: 555875.0/16

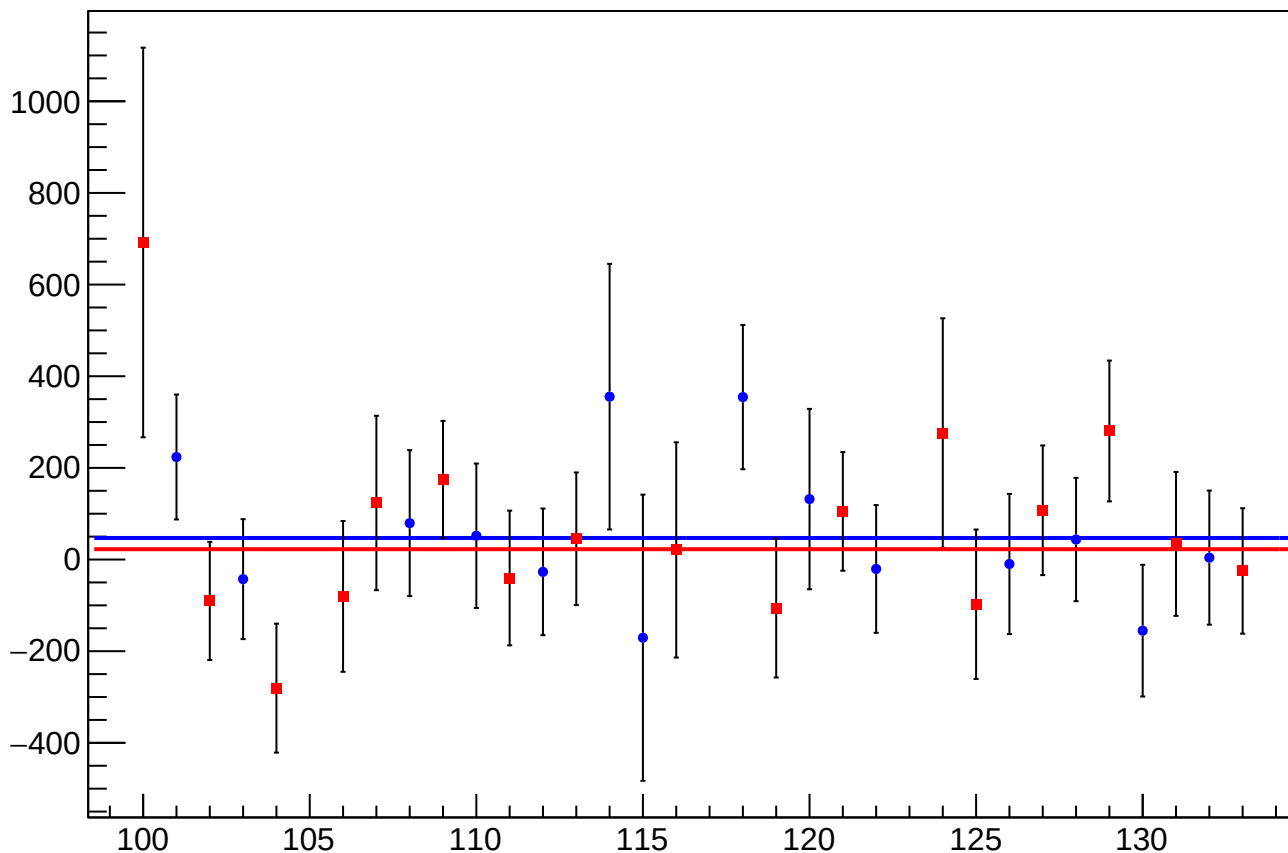
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 740.868 $\pm$ 0.150  $\chi^2$ /NDF: 1023067.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 47.048+/-41.621  $\chi^2/\text{NDF}$ : 10.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.567+/-37.875  $\chi^2/\text{NDF}$ : 16.2/16

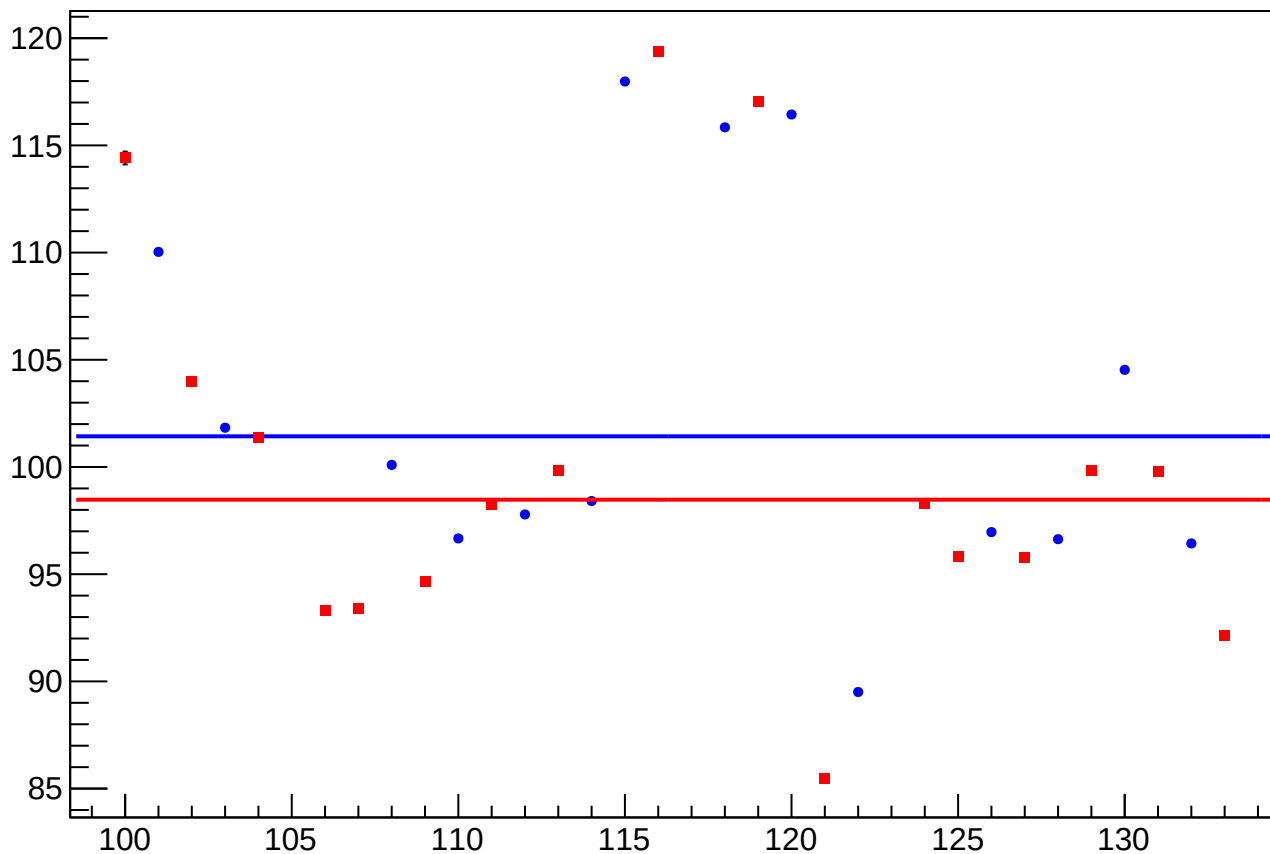
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.656+/-28.013  $\chi^2/\text{NDF}$ : 26.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 101.431 $\pm$ 0.029  $\chi^2$ /NDF: 67726.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 98.474 $\pm$ 0.027  $\chi^2$ /NDF: 84688.8/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

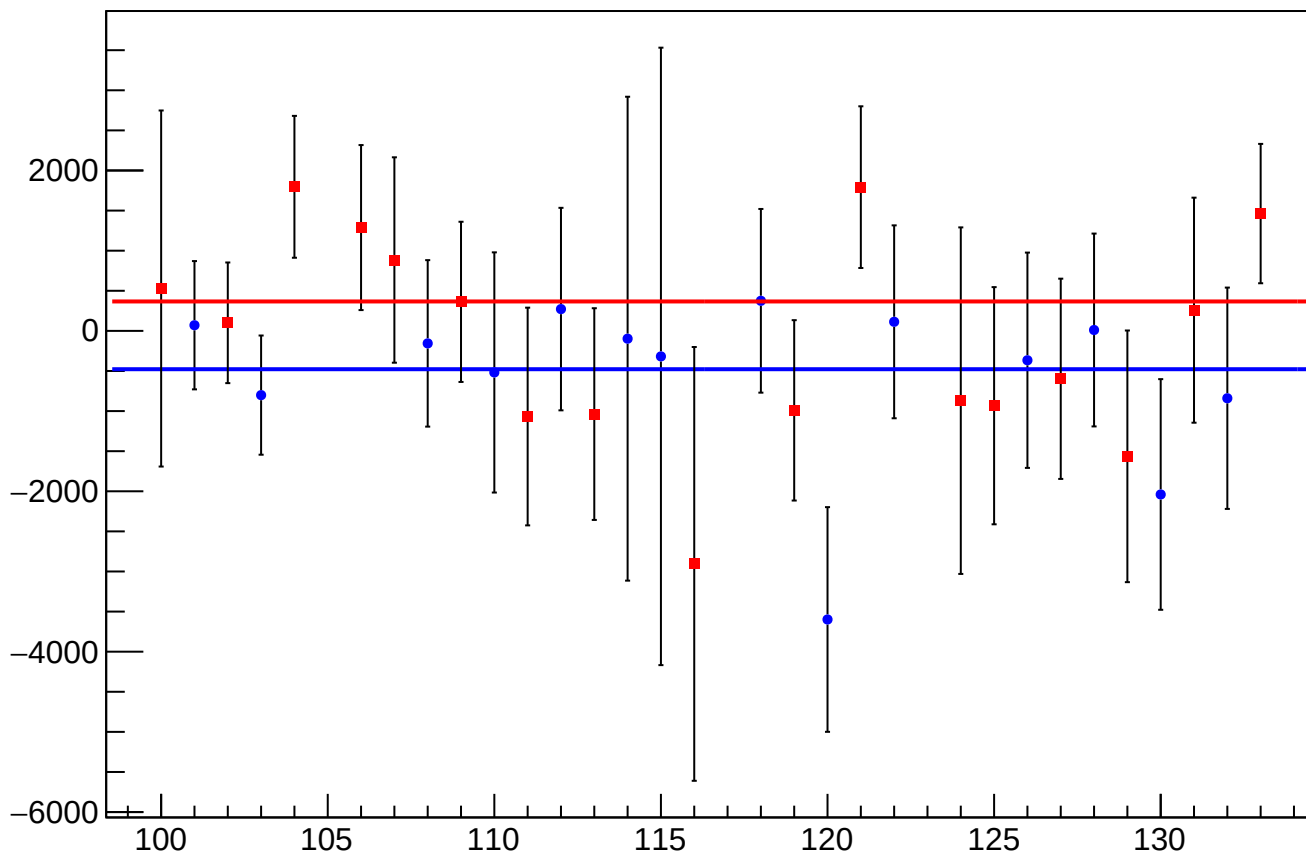
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 99.814 $\pm$ 0.020  $\chi^2$ /NDF: 157935.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In:  $-477.905 \pm 319.899$   $\chi^2/\text{NDF}$ : 8.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $366.954 \pm 284.142$   $\chi^2/\text{NDF}$ : 15.7/16

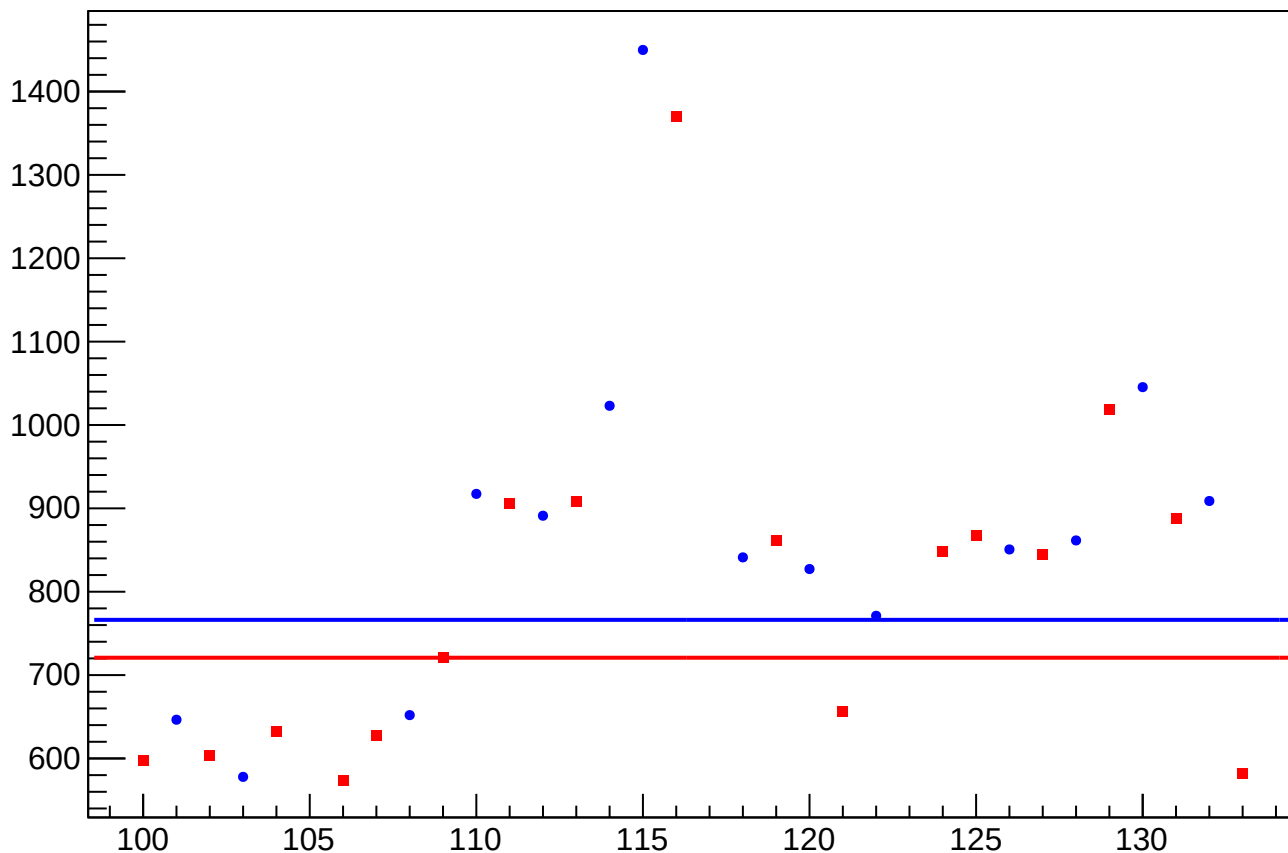
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.637 \pm 212.440$   $\chi^2/\text{NDF}$ : 27.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 766.258+/-0.226  $\chi^2/\text{NDF}$ : 444650.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 720.835+/-0.201  $\chi^2/\text{NDF}$ : 555874.4/16

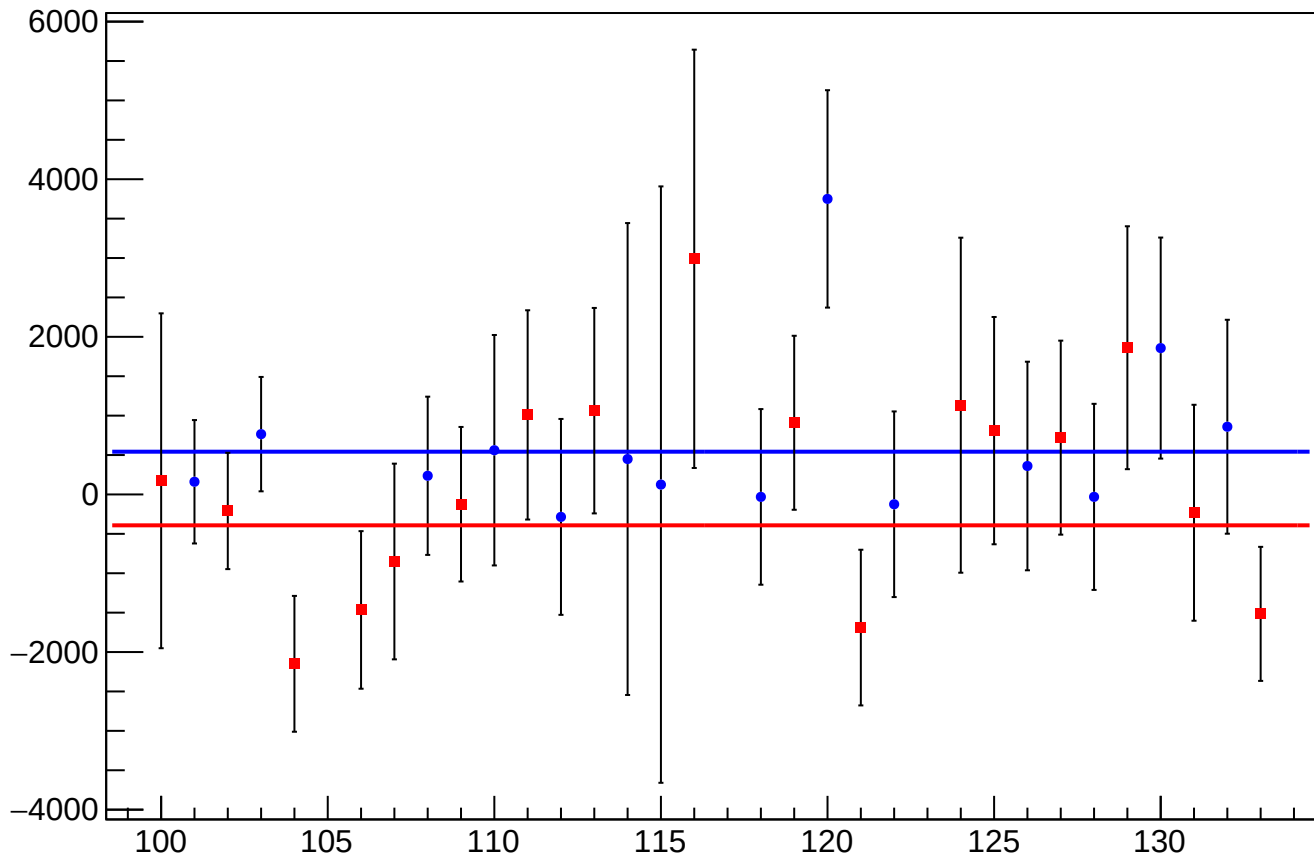
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 740.867+/-0.150  $\chi^2/\text{NDF}$ : 1023065.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_mean vs Slug



Right In: 542.394+/-312.966  $\chi^2/\text{NDF}$ : 8.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -391.994+/-278.063  $\chi^2/\text{NDF}$ : 18.7/16

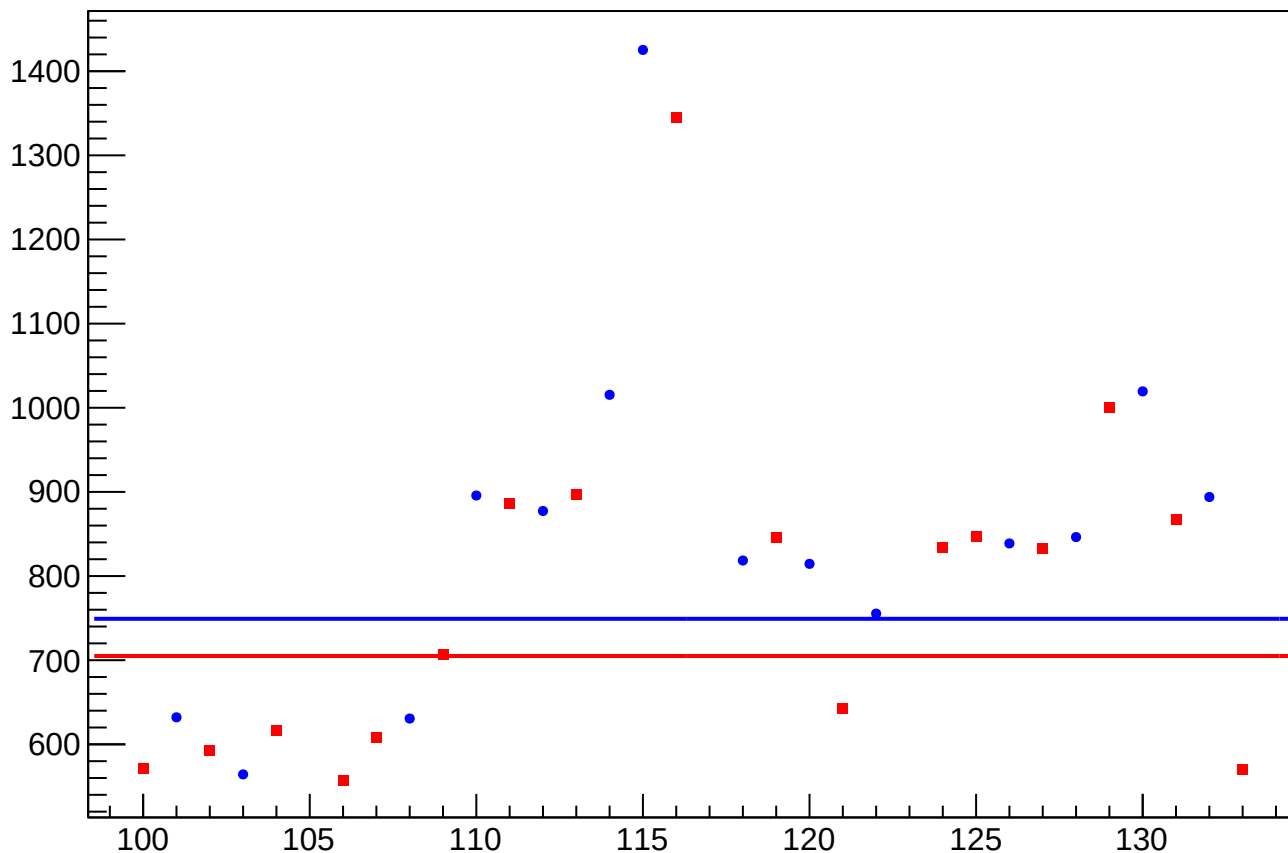
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.212+/-207.869  $\chi^2/\text{NDF}$ : 31.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_rms vs Slug



Right In: 749.203+/-0.221  $\chi^2/\text{NDF}$ : 455474.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 704.976+/-0.197  $\chi^2/\text{NDF}$ : 568772.4/16

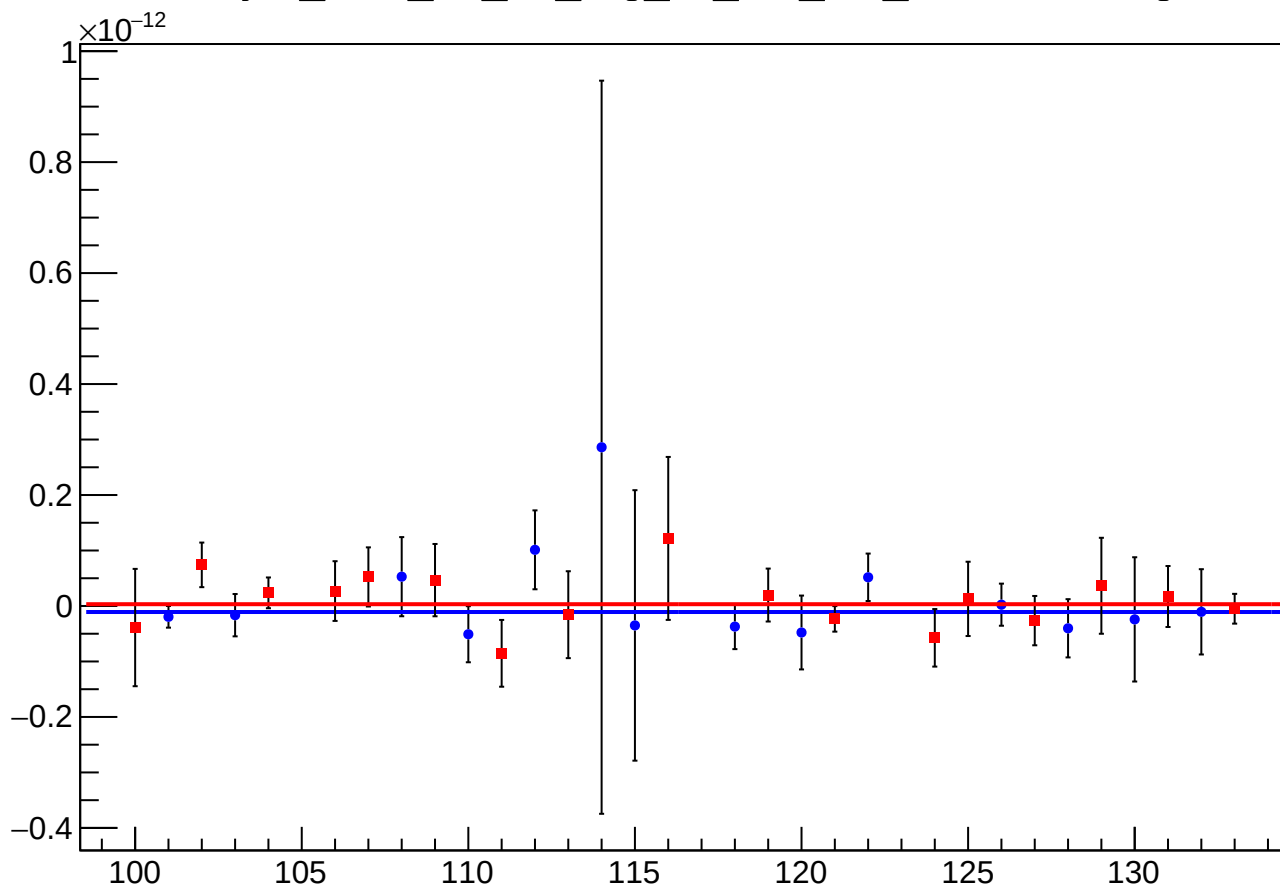
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 724.487+/-0.147  $\chi^2/\text{NDF}$ : 1046566.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.8/16

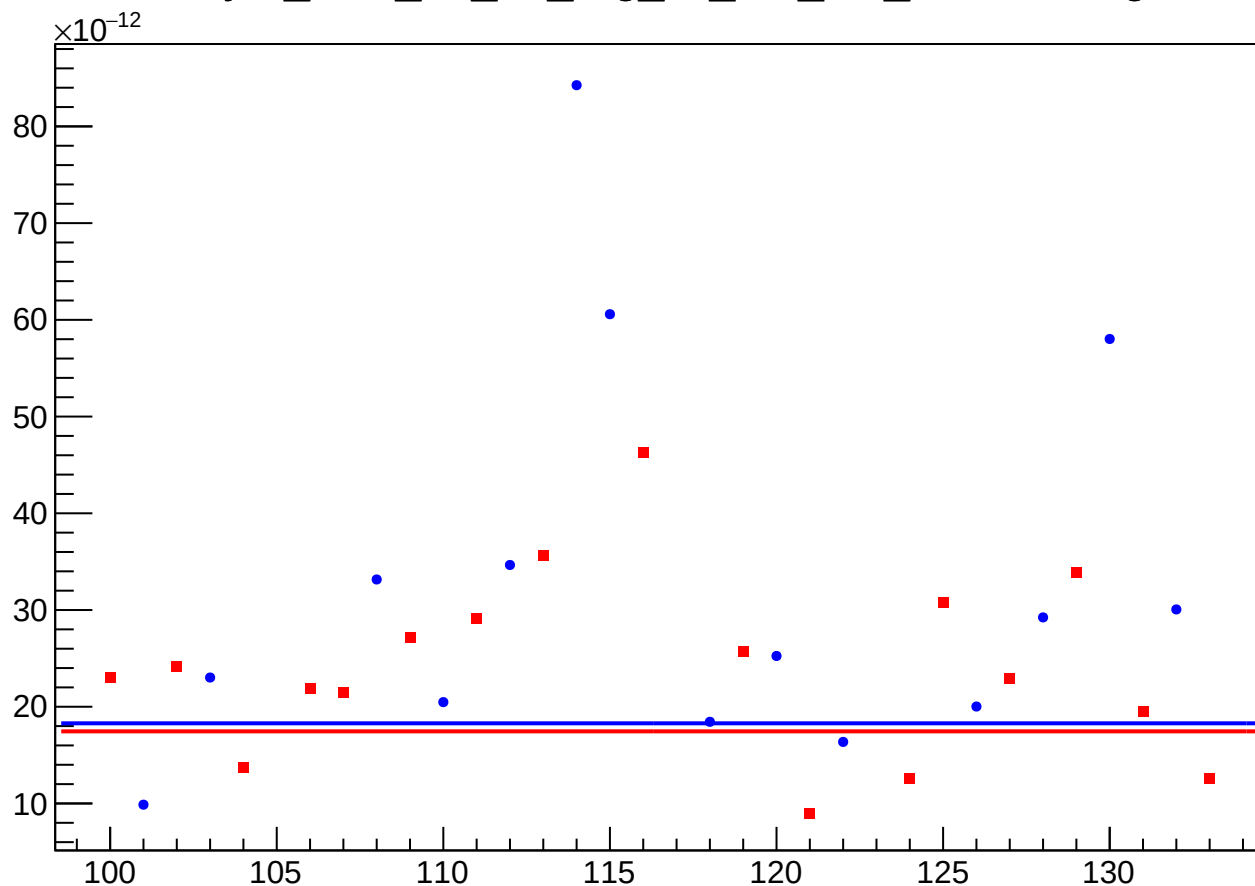
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.2/30

- 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  $\chi^2/\text{NDF}$ : 1095299.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1028306.0/16

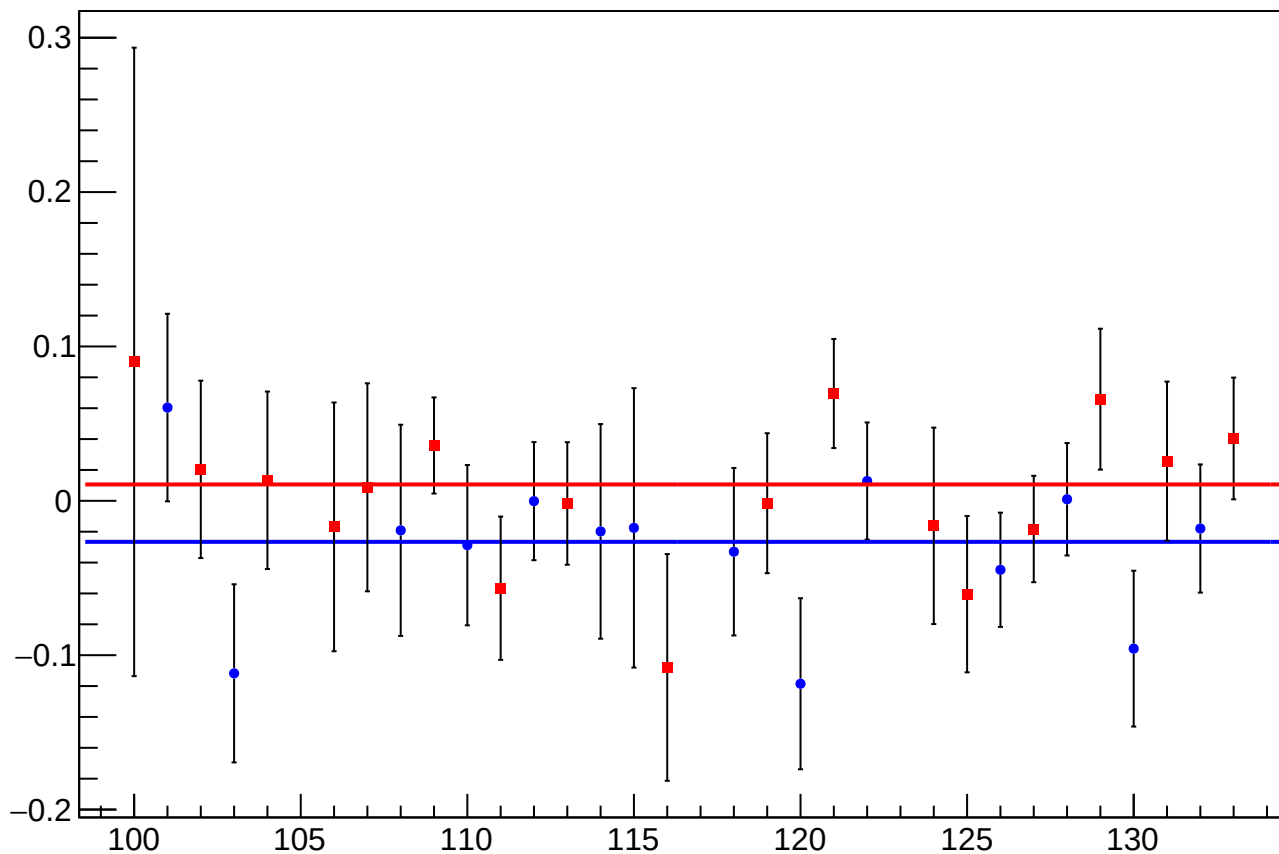
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2128873.2/30

- 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:  $-0.027 \pm 0.013$   $\chi^2/\text{NDF}: 11.3/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.011 \pm 0.011$   $\chi^2/\text{NDF}: 13.6/16$

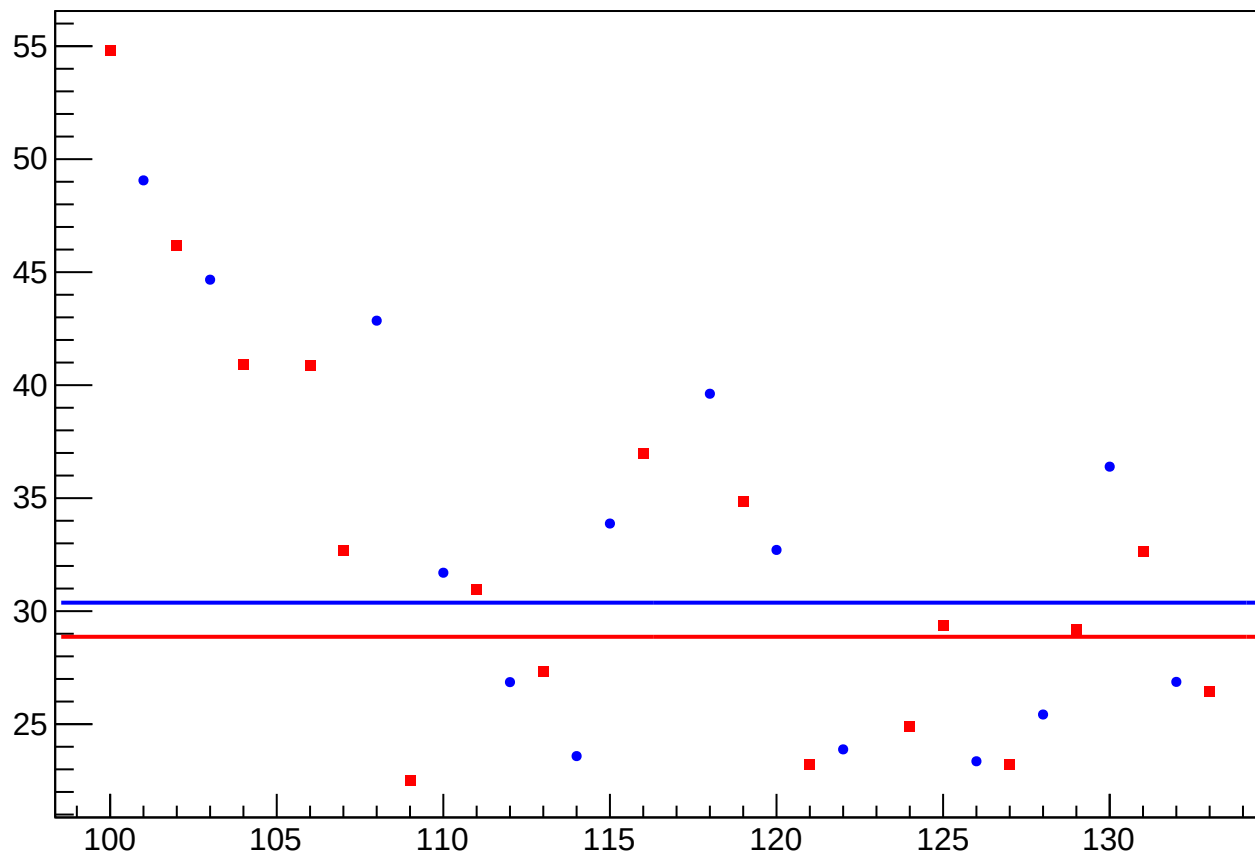
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.006 \pm 0.009$   $\chi^2/\text{NDF}: 29.5/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# asym\_sam\_15\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 30.375+/-0.009  $\chi^2/\text{NDF}$ : 690398.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.866+/-0.008  $\chi^2/\text{NDF}$ : 634049.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

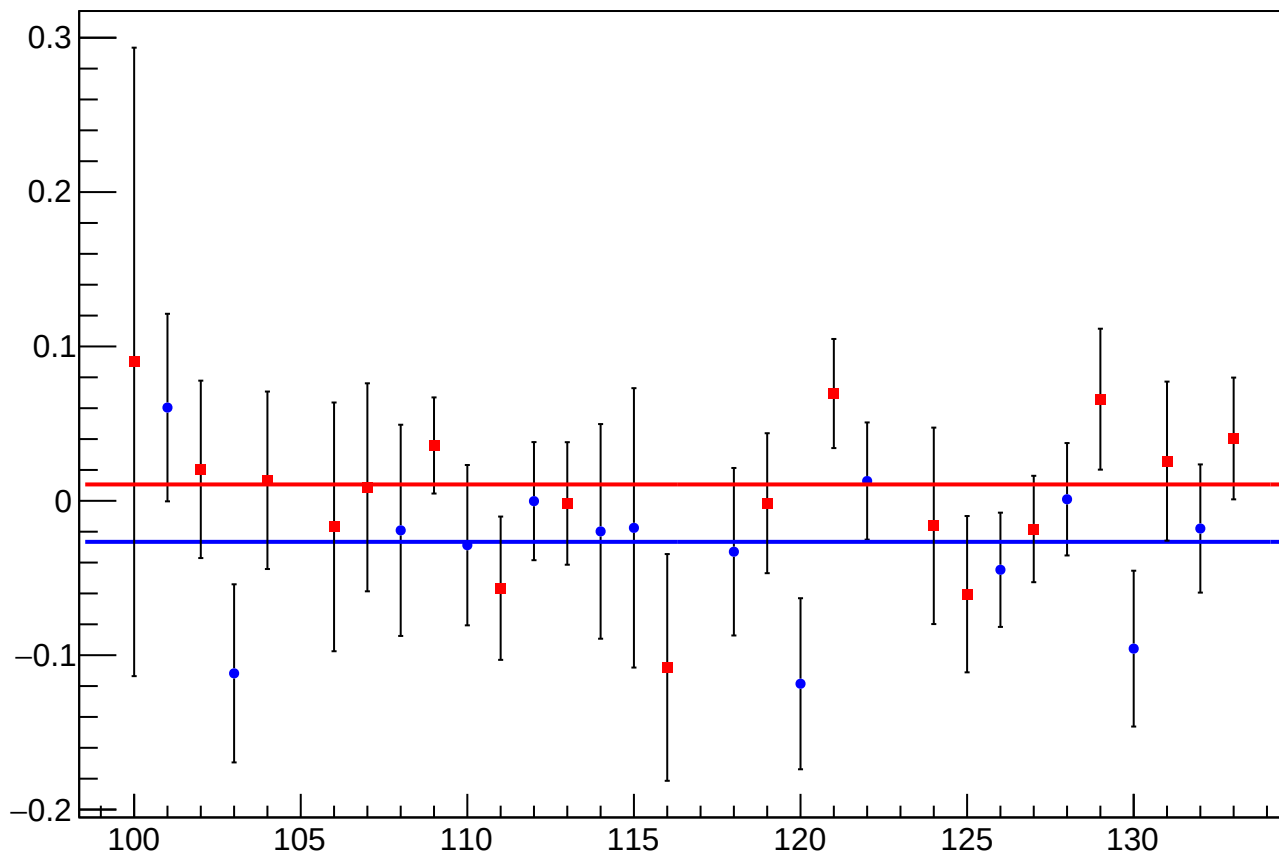
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.532+/-0.006  $\chi^2/\text{NDF}$ : 1339698.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.027 $\pm$ 0.013  $\chi^2$ /NDF: 11.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.011 $\pm$ 0.011  $\chi^2$ /NDF: 13.6/16

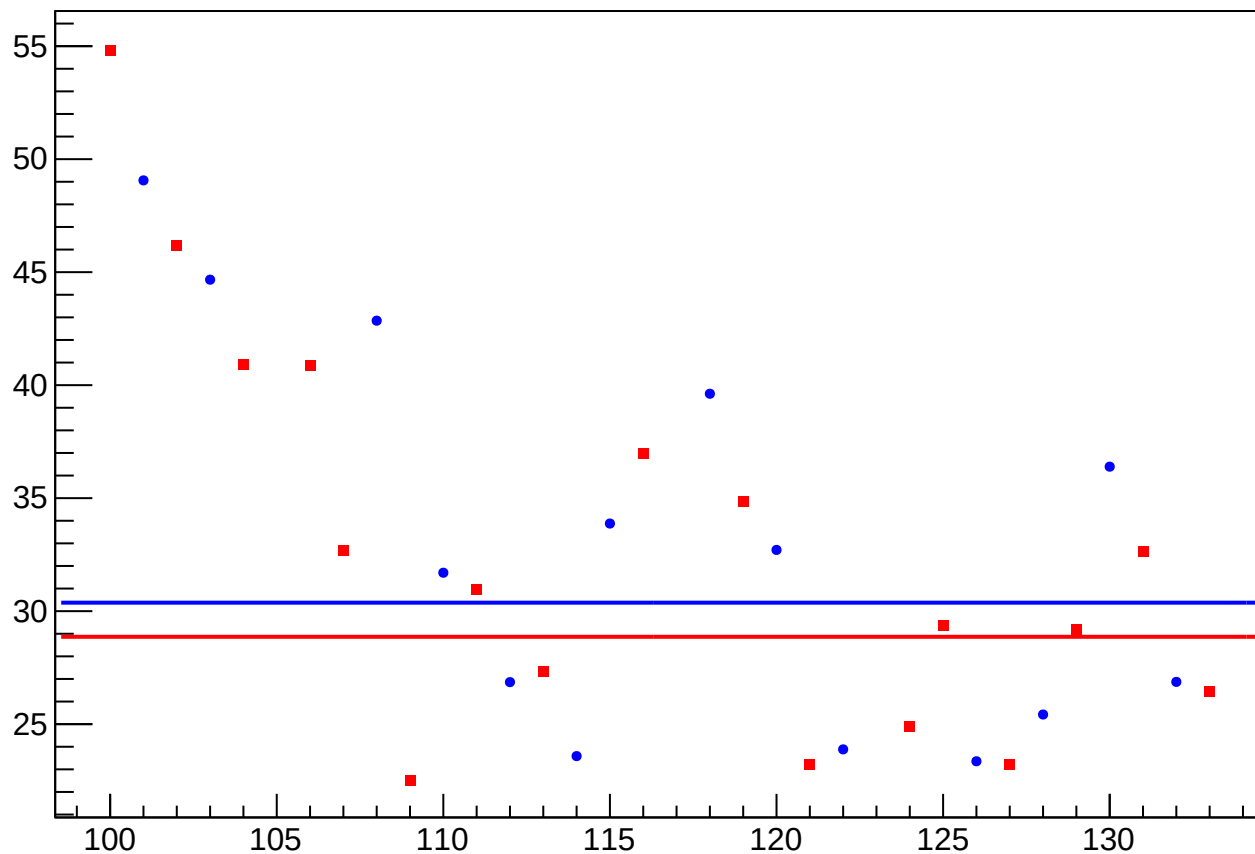
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.006 $\pm$ 0.009  $\chi^2$ /NDF: 29.5/30

- 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: 30.375+/-0.009  $\chi^2/\text{NDF}$ : 690398.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.866+/-0.008  $\chi^2/\text{NDF}$ : 634049.0/16

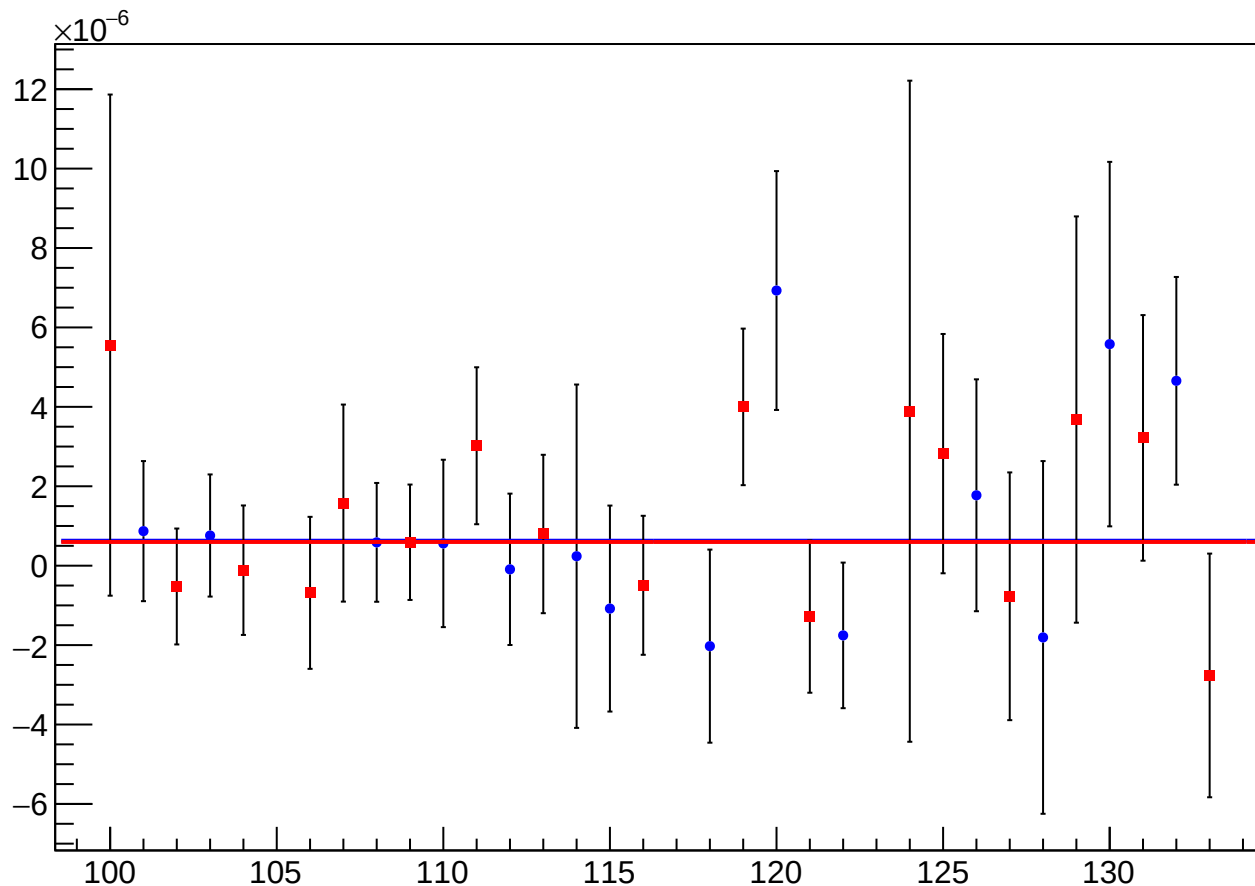
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.532+/-0.006  $\chi^2/\text{NDF}$ : 1339698.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 11.0/16

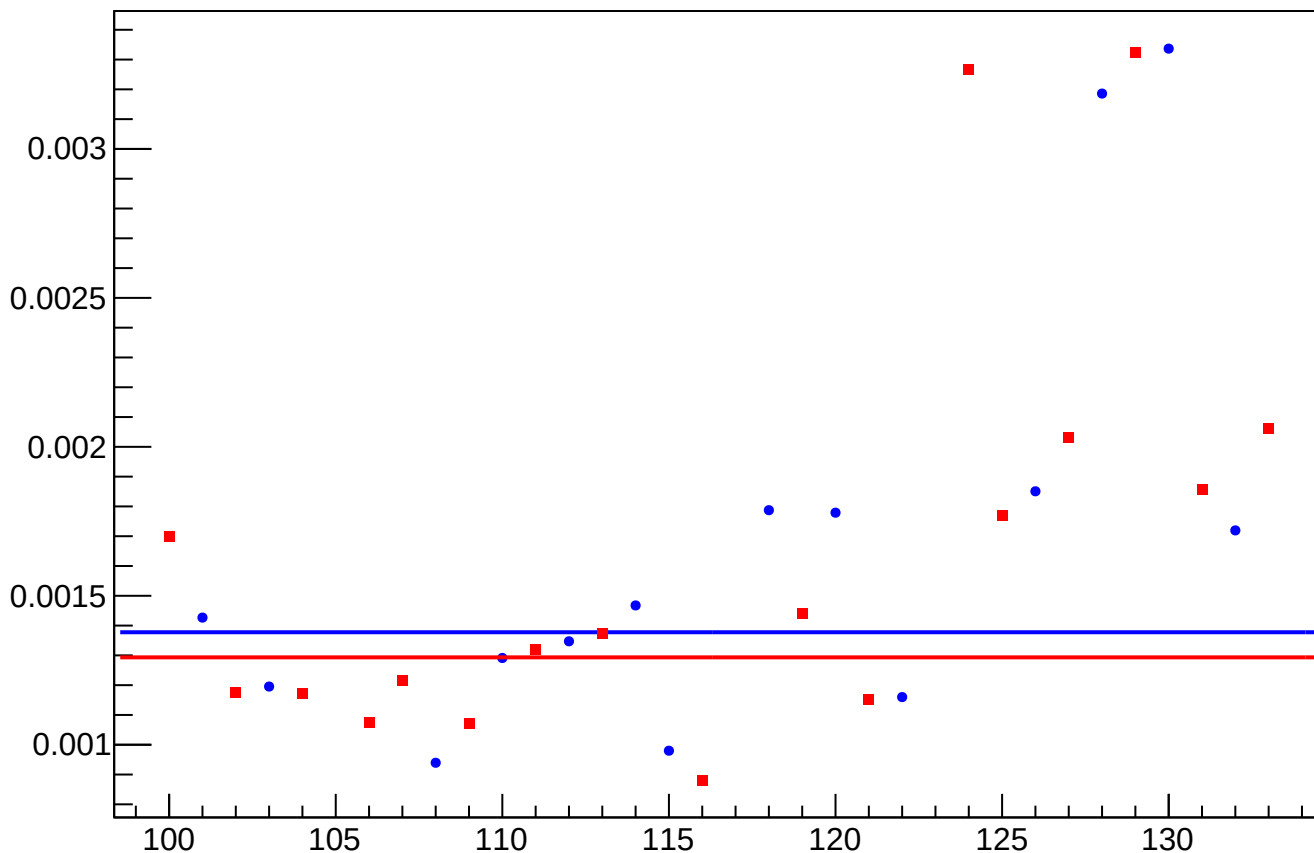
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 22.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1156123.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1023477.8/16

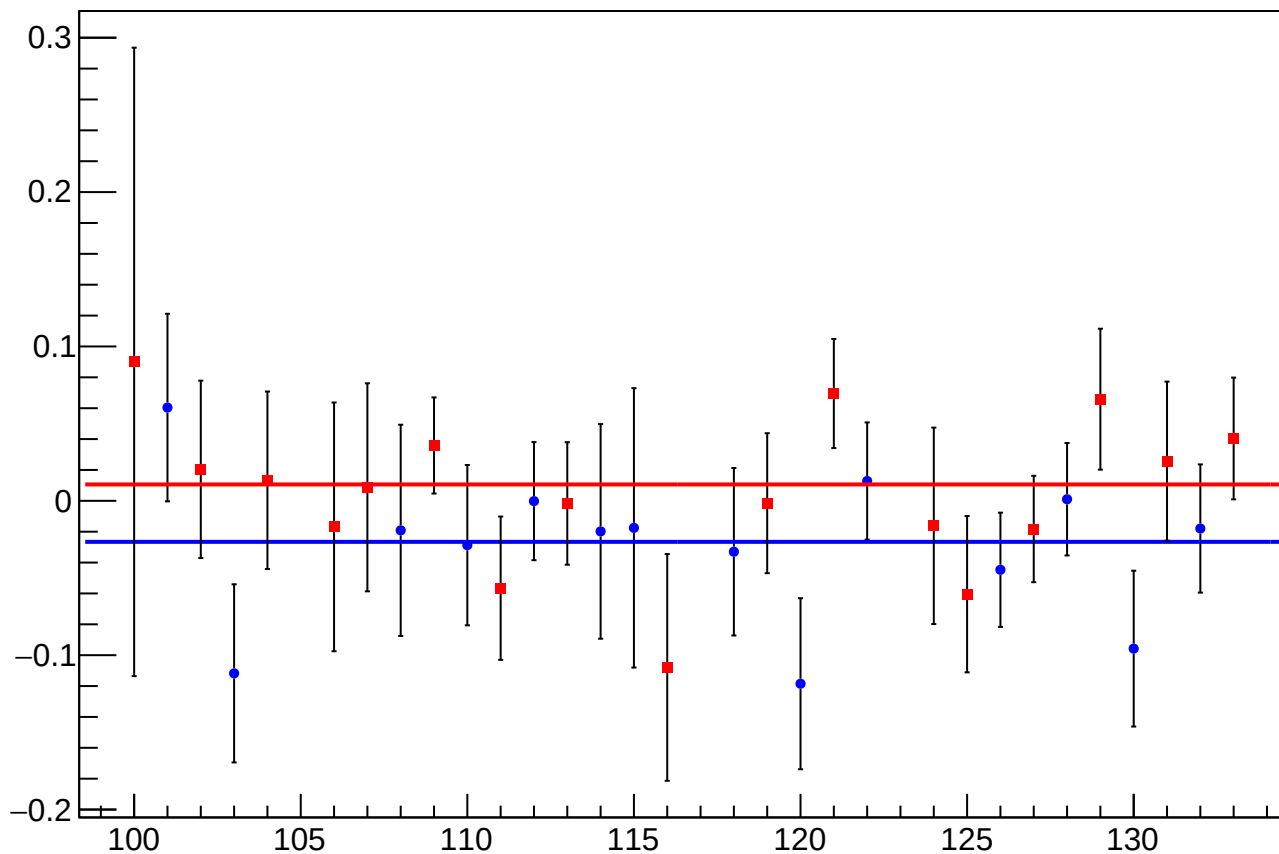
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2202176.5/30

- 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:  $-0.027 \pm 0.013$   $\chi^2/\text{NDF}$ : 11.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.011 \pm 0.011$   $\chi^2/\text{NDF}$ : 13.6/16

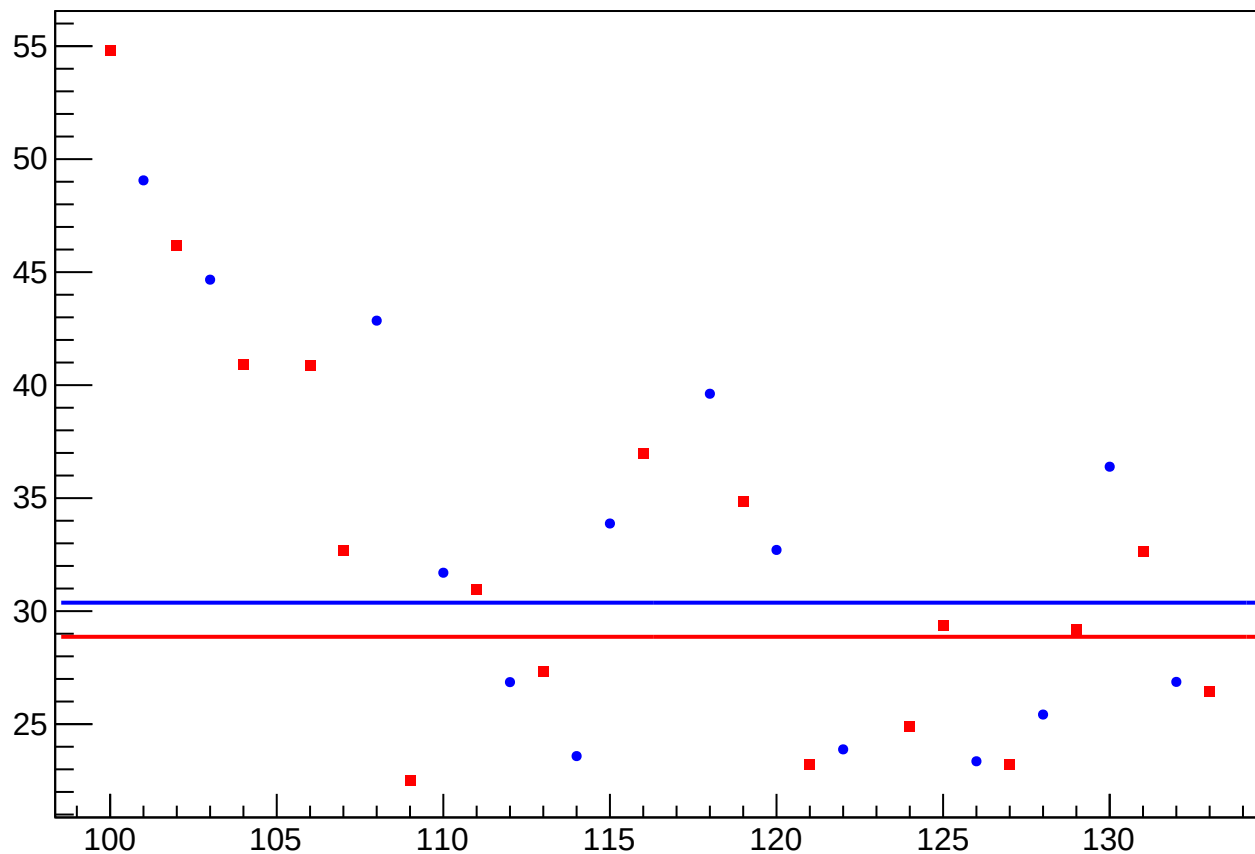
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.006 \pm 0.009$   $\chi^2/\text{NDF}$ : 29.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 30.374+/-0.009  $\chi^2/\text{NDF}$ : 690447.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.864+/-0.008  $\chi^2/\text{NDF}$ : 634125.8/16

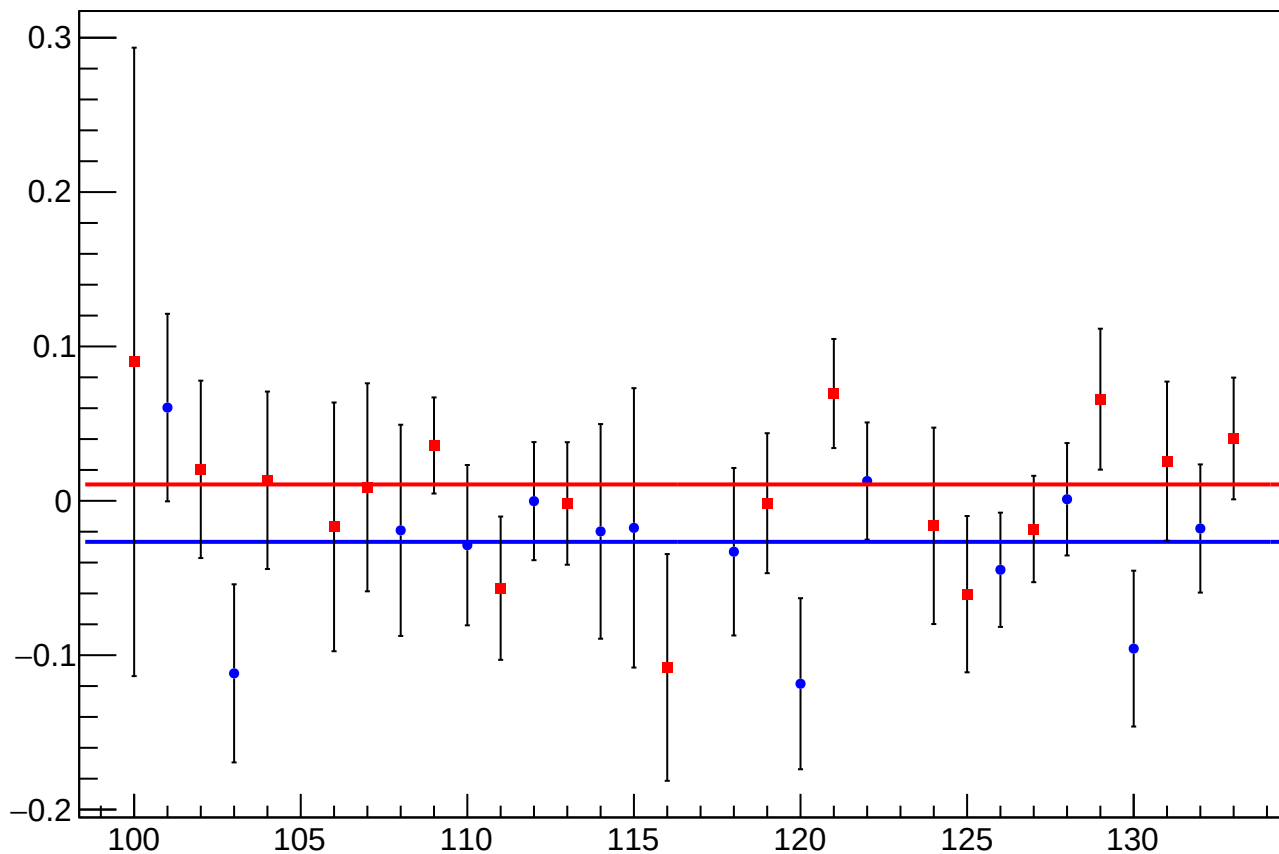
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.530+/-0.006  $\chi^2/\text{NDF}$ : 1339826.3/30

- 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:  $-0.027 \pm 0.013$   $\chi^2/\text{NDF}: 11.3/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.011 \pm 0.011$   $\chi^2/\text{NDF}: 13.6/16$

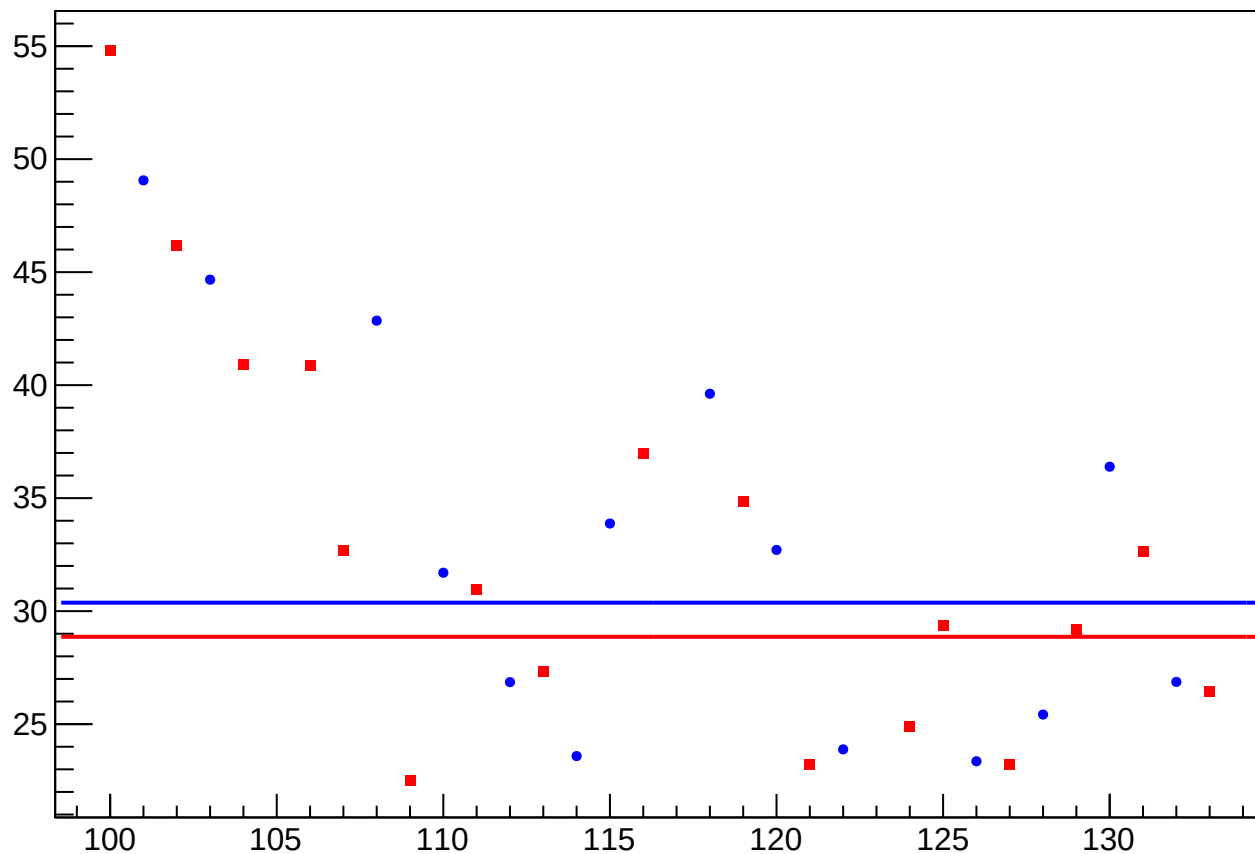
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.006 \pm 0.009$   $\chi^2/\text{NDF}: 29.5/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_sam\_15\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 30.374+/-0.009  $\chi^2/\text{NDF}$ : 690447.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.864+/-0.008  $\chi^2/\text{NDF}$ : 634125.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

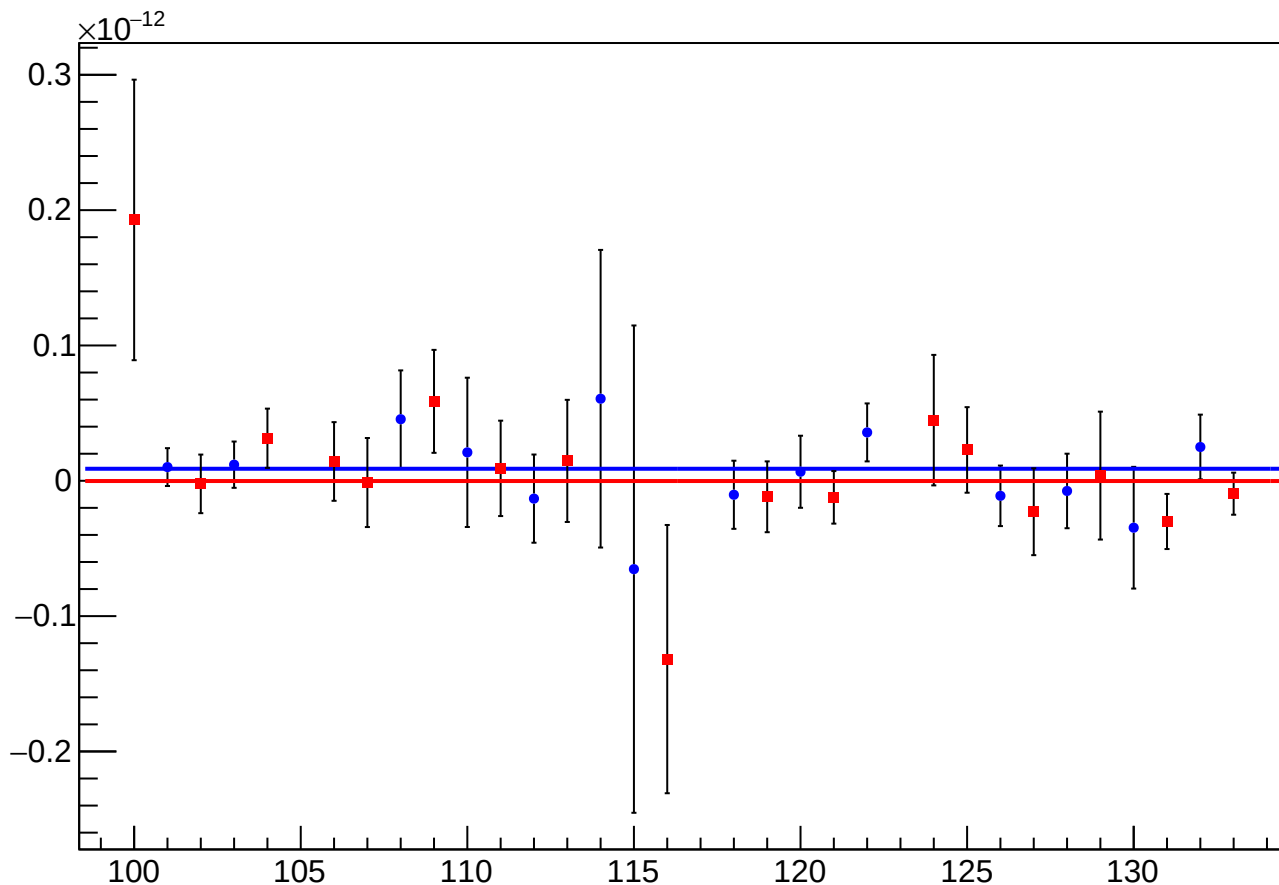
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.530+/-0.006  $\chi^2/\text{NDF}$ : 1339826.3/30

- 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: 6.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.2/16

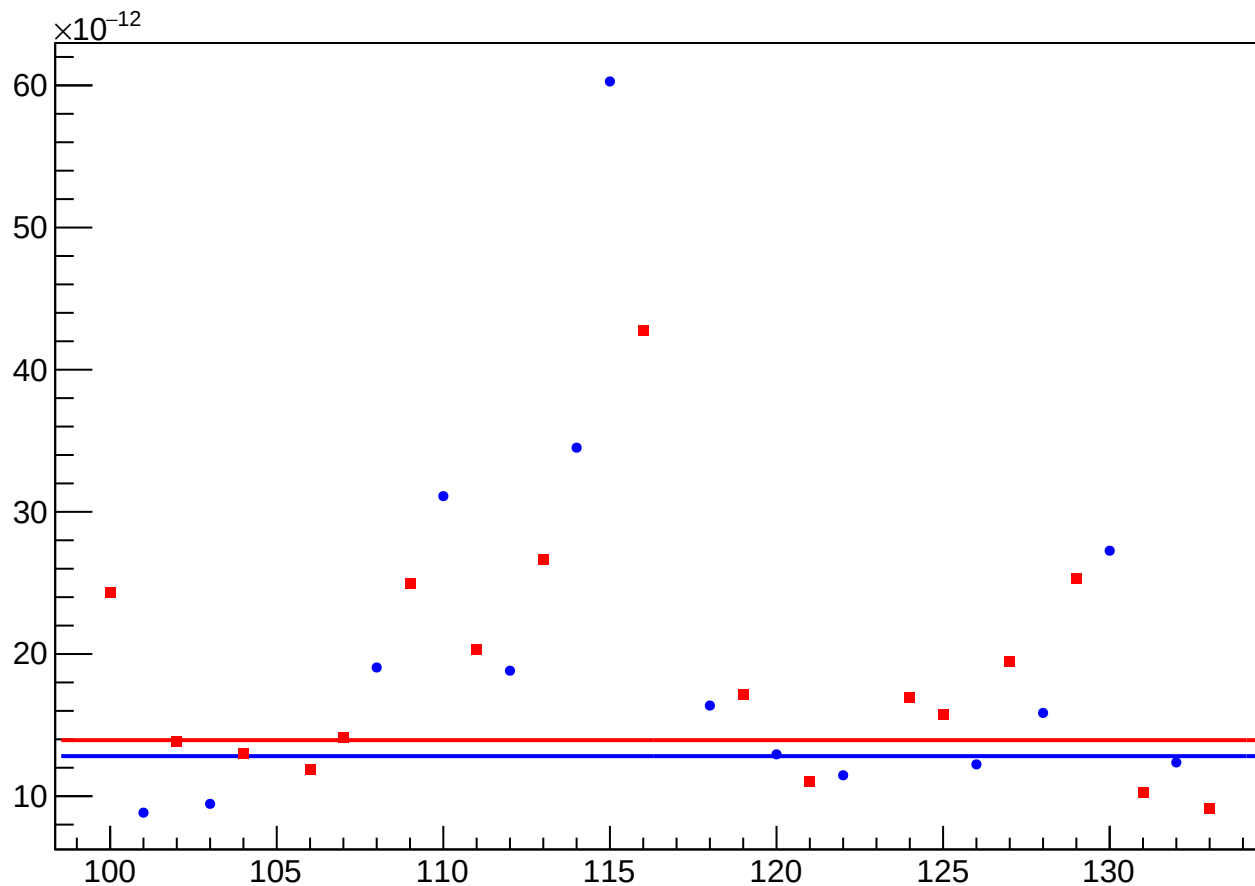
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 22.7/30

- 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  $\chi^2/\text{NDF}$ : 1083958.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1117576.7/16

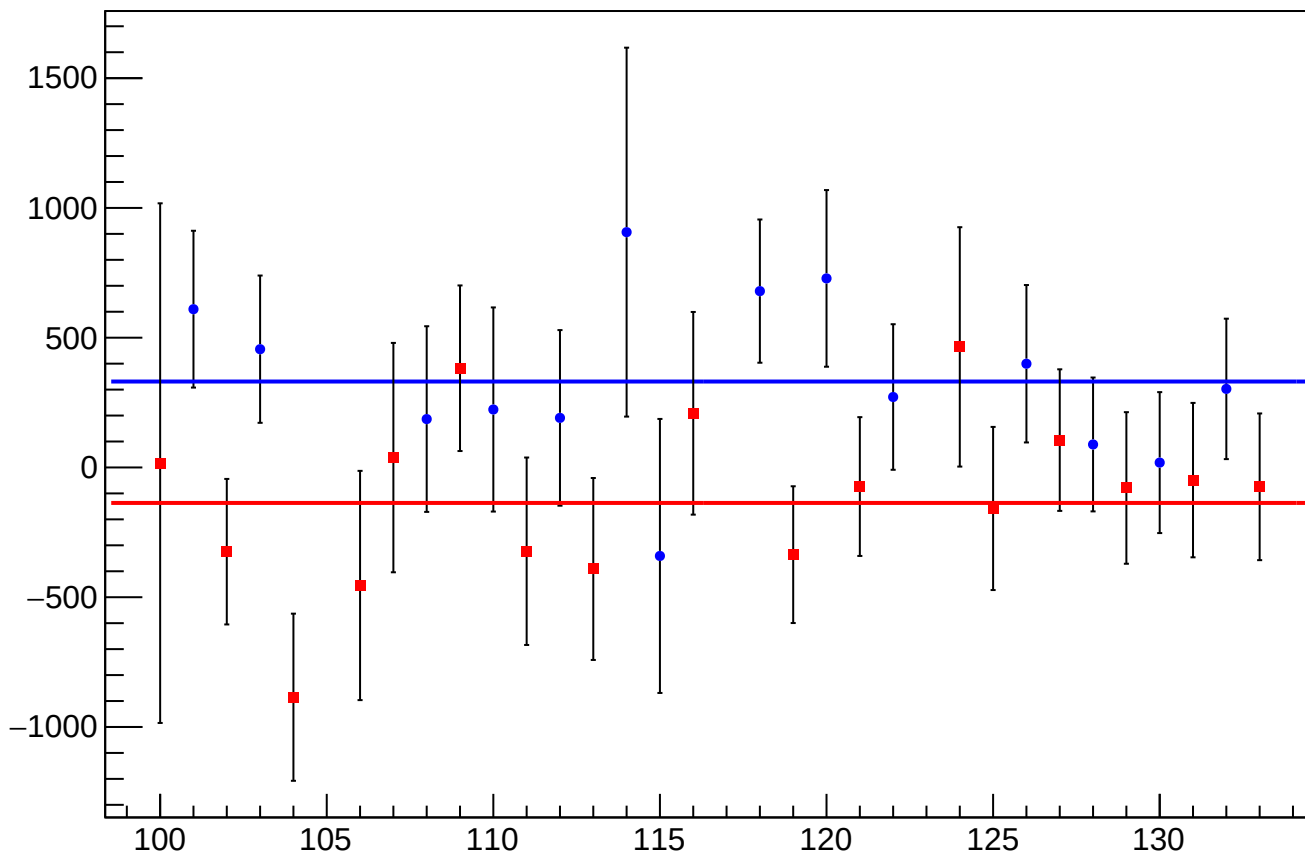
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2228982.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 331.116 $\pm$ 84.647  $\chi^2$ /NDF: 9.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -136.714 $\pm$ 79.557  $\chi^2$ /NDF: 14.1/16

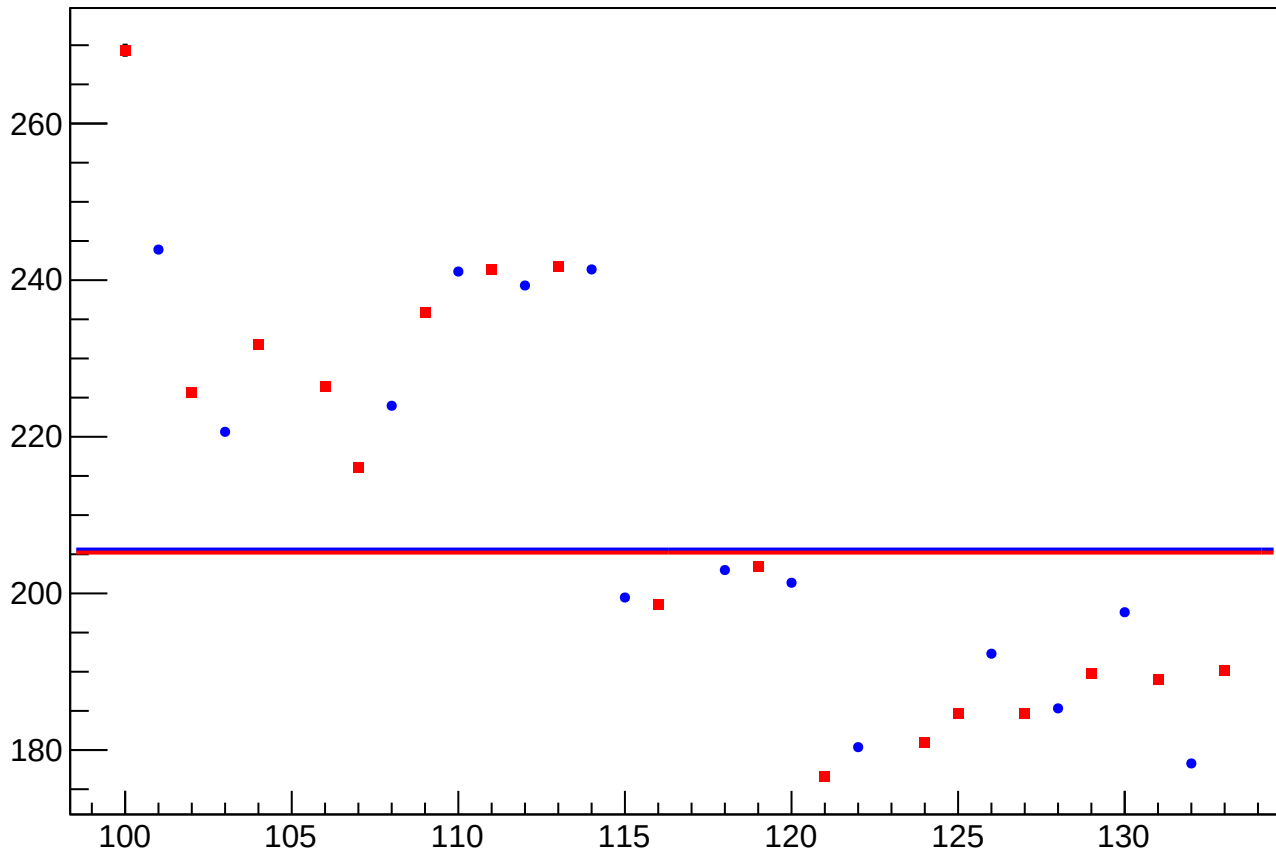
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 82.715 $\pm$ 57.971  $\chi^2$ /NDF: 39.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 205.601 $\pm$ 0.060  $\chi^2$ /NDF: 139523.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 205.216 $\pm$ 0.056  $\chi^2$ /NDF: 164615.5/16

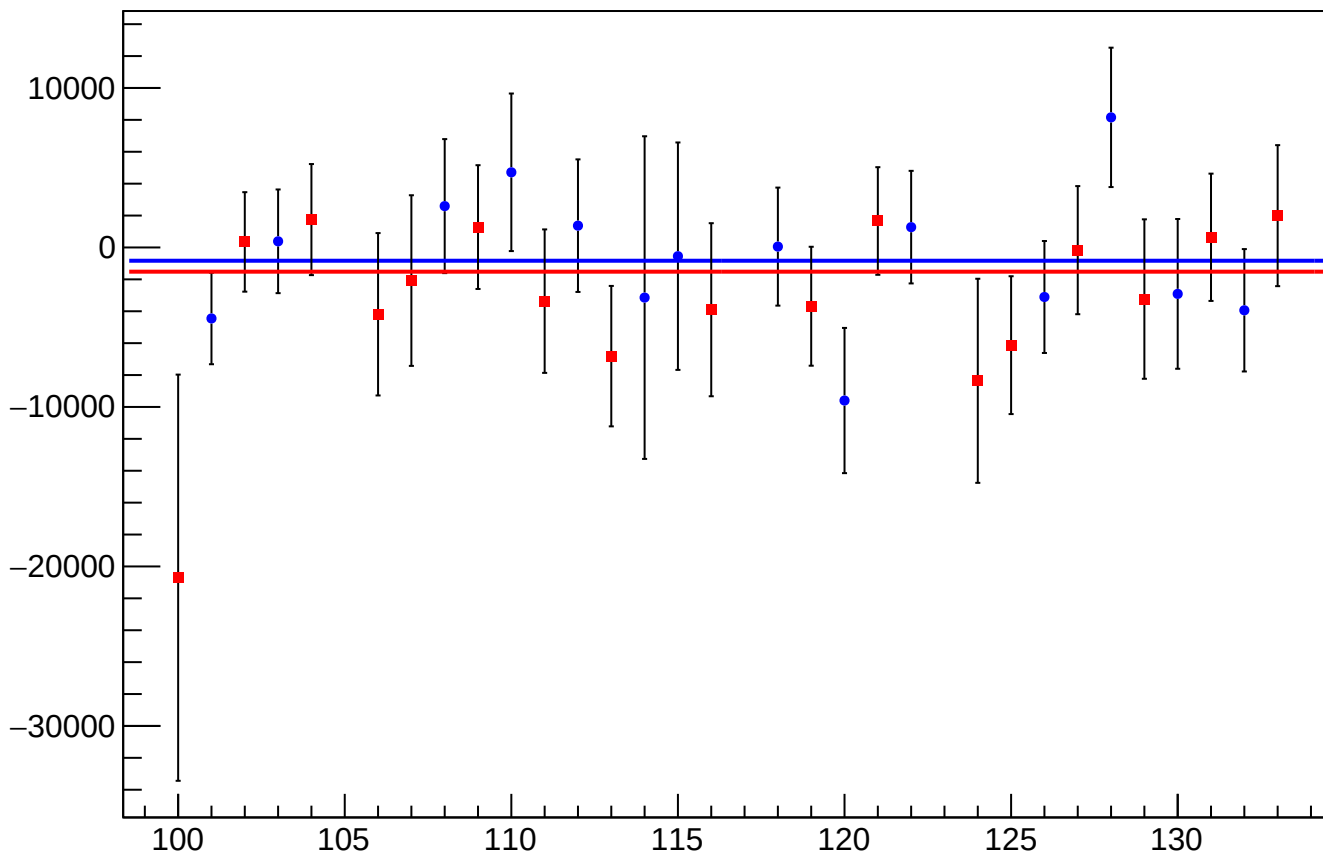
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 205.397 $\pm$ 0.041  $\chi^2$ /NDF: 304161.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_dd\_reg\_correction\_mean vs Slug



Right In: -832.469+/-1085.078  $\chi^2/\text{NDF}$ : 13.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1518.420+/-1042.493  $\chi^2/\text{NDF}$ : 10.8/16

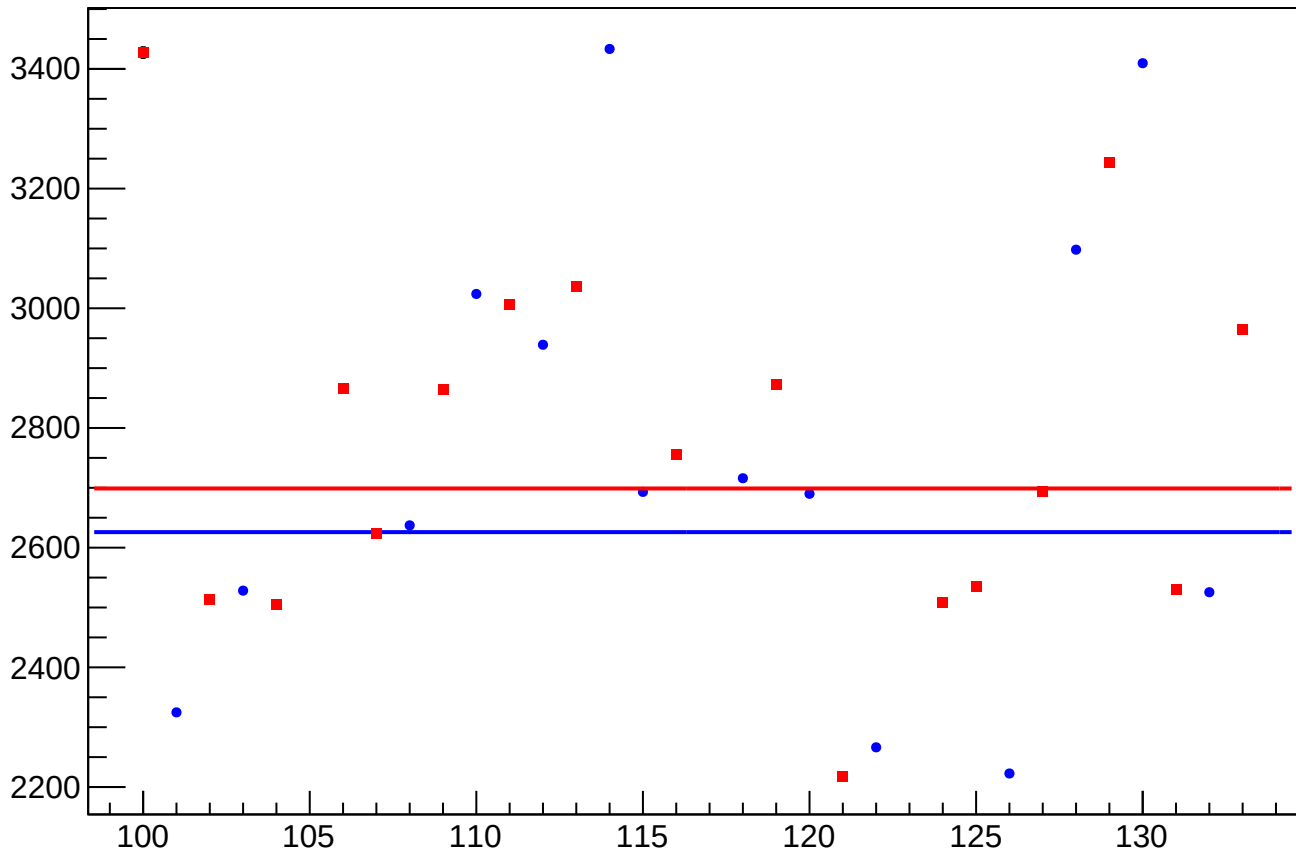
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1189.169+/-751.758  $\chi^2/\text{NDF}$ : 24.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_reg\_correction\_rms vs Slug



Right In: 2625.960+/-0.767  $\chi^2/\text{NDF}$ : 190247.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2698.886+/-0.737  $\chi^2/\text{NDF}$ : 131614.2/16

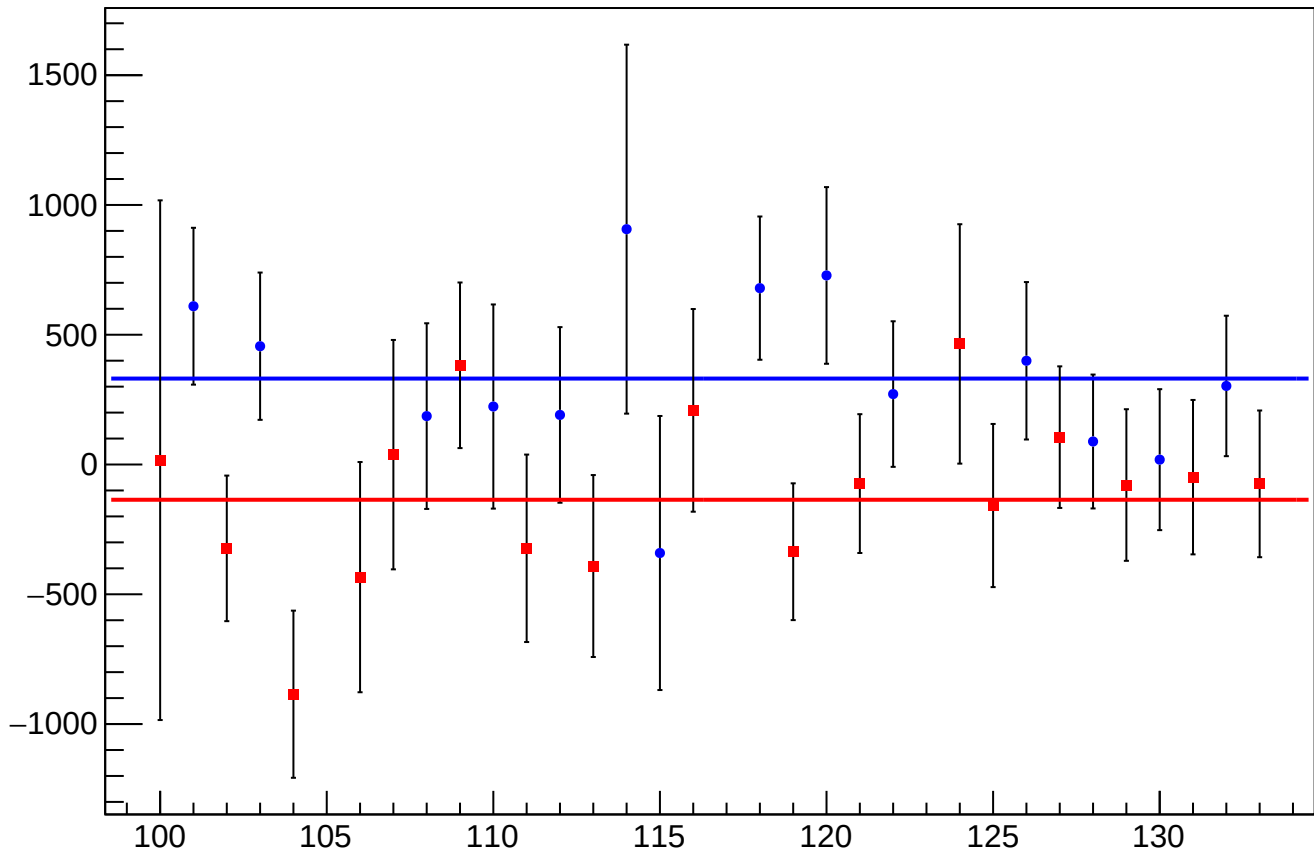
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2663.882+/-0.532  $\chi^2/\text{NDF}$ : 326559.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 331.128 $\pm$ 84.647  $\chi^2$ /NDF: 9.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -135.819 $\pm$ 79.570  $\chi^2$ /NDF: 14.0/16

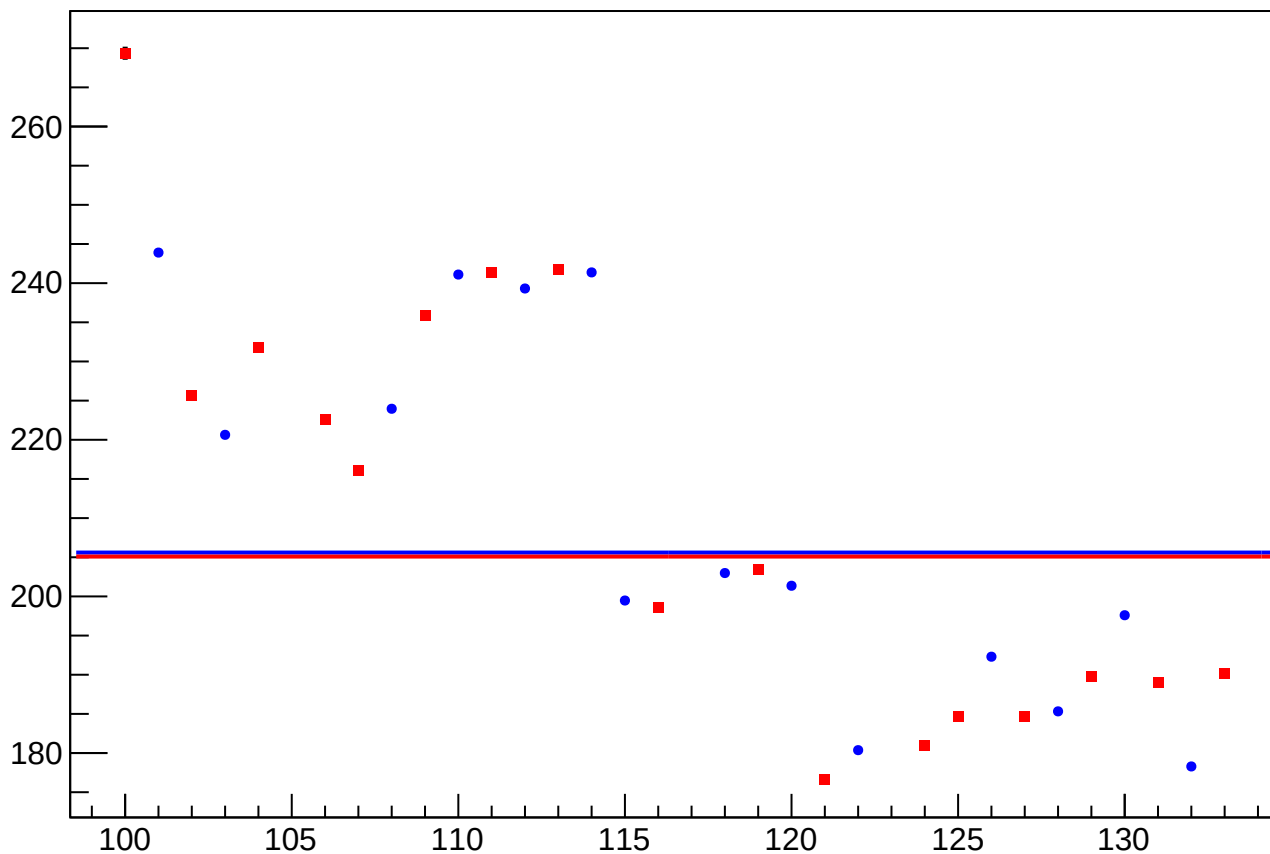
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 83.232 $\pm$ 57.976  $\chi^2$ /NDF: 39.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 205.601 $\pm$ 0.060  $\chi^2$ /NDF: 139524.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 205.088 $\pm$ 0.056  $\chi^2$ /NDF: 163091.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

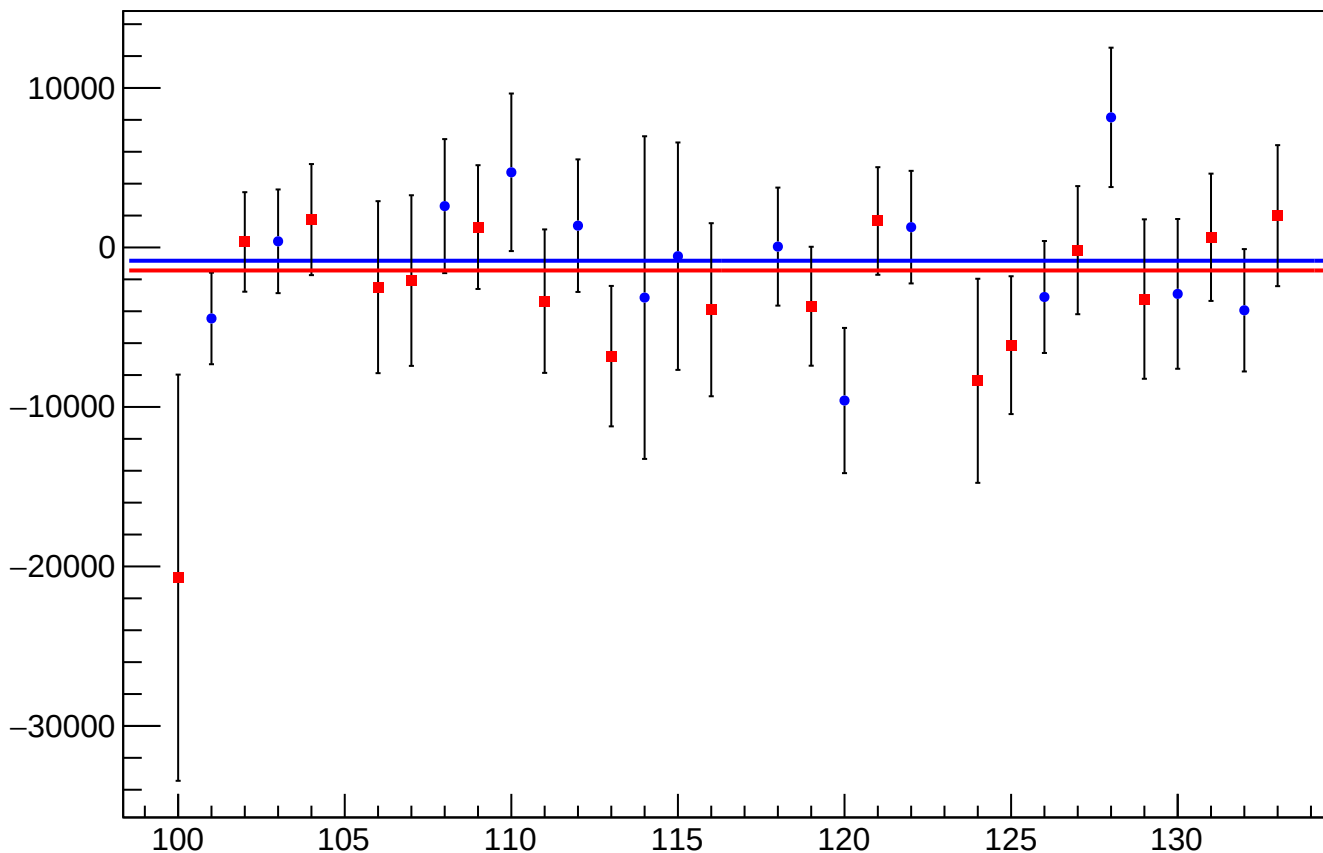
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 205.329 $\pm$ 0.041  $\chi^2$ /NDF: 302654.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_26\_dd\_cor\_correction\_mean vs Slug



Right In: -832.388+/-1085.081  $\chi^2/\text{NDF}$ : 13.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1442.769+/-1044.920  $\chi^2/\text{NDF}$ : 10.5/16

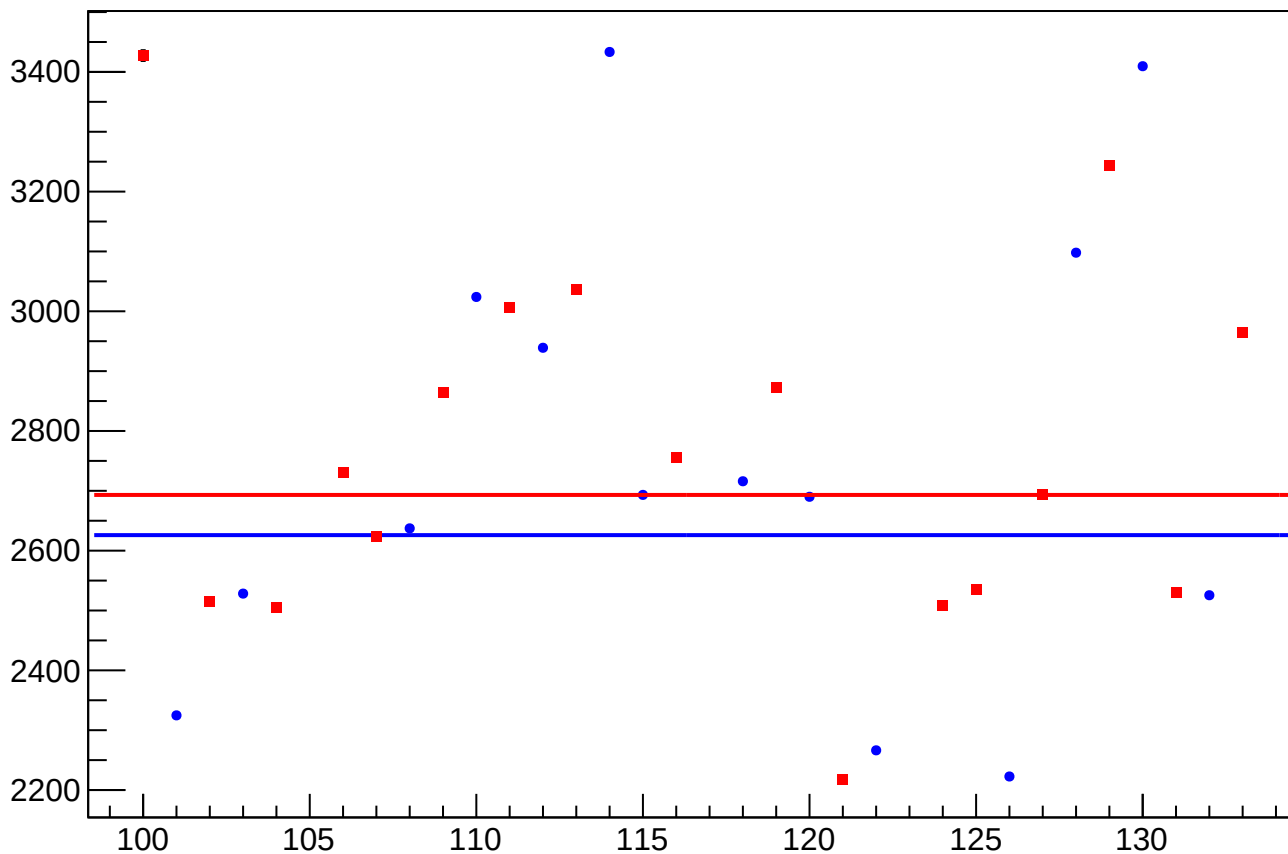
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1149.083+/-752.667  $\chi^2/\text{NDF}$ : 24.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_cor\_correction\_rms vs Slug



Right In: 2625.967+/-0.767  $\chi^2/\text{NDF}$ : 190245.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2693.118+/-0.739  $\chi^2/\text{NDF}$ : 129370.7/16

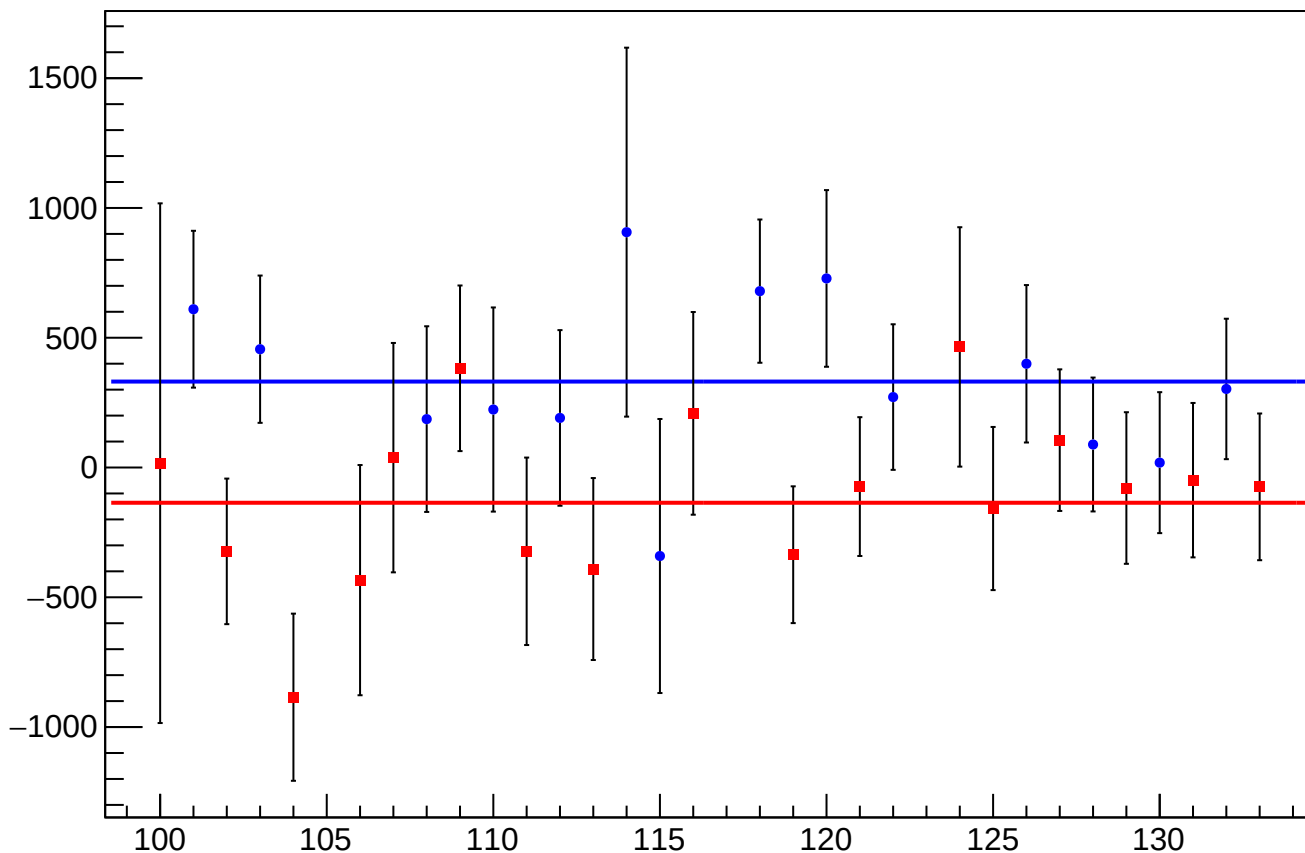
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2660.808+/-0.532  $\chi^2/\text{NDF}$ : 323590.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_26\_dd\_mean vs Slug



Right In:  $331.128 \pm 84.647$   $\chi^2/\text{NDF}$ : 9.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-135.819 \pm 79.570$   $\chi^2/\text{NDF}$ : 14.0/16

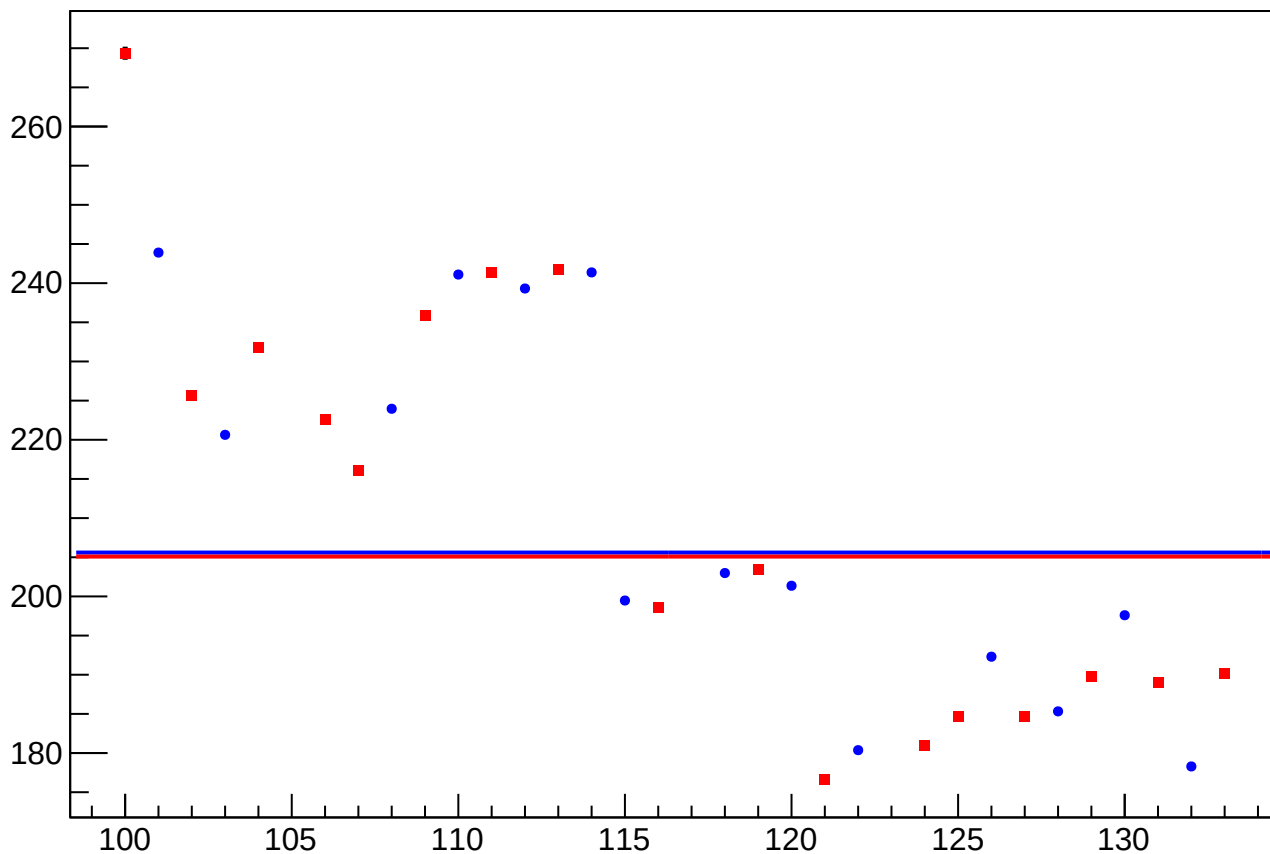
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $83.232 \pm 57.976$   $\chi^2/\text{NDF}$ : 39.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 205.601 $\pm$ 0.060  $\chi^2$ /NDF: 139524.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 205.088 $\pm$ 0.056  $\chi^2$ /NDF: 163091.9/16

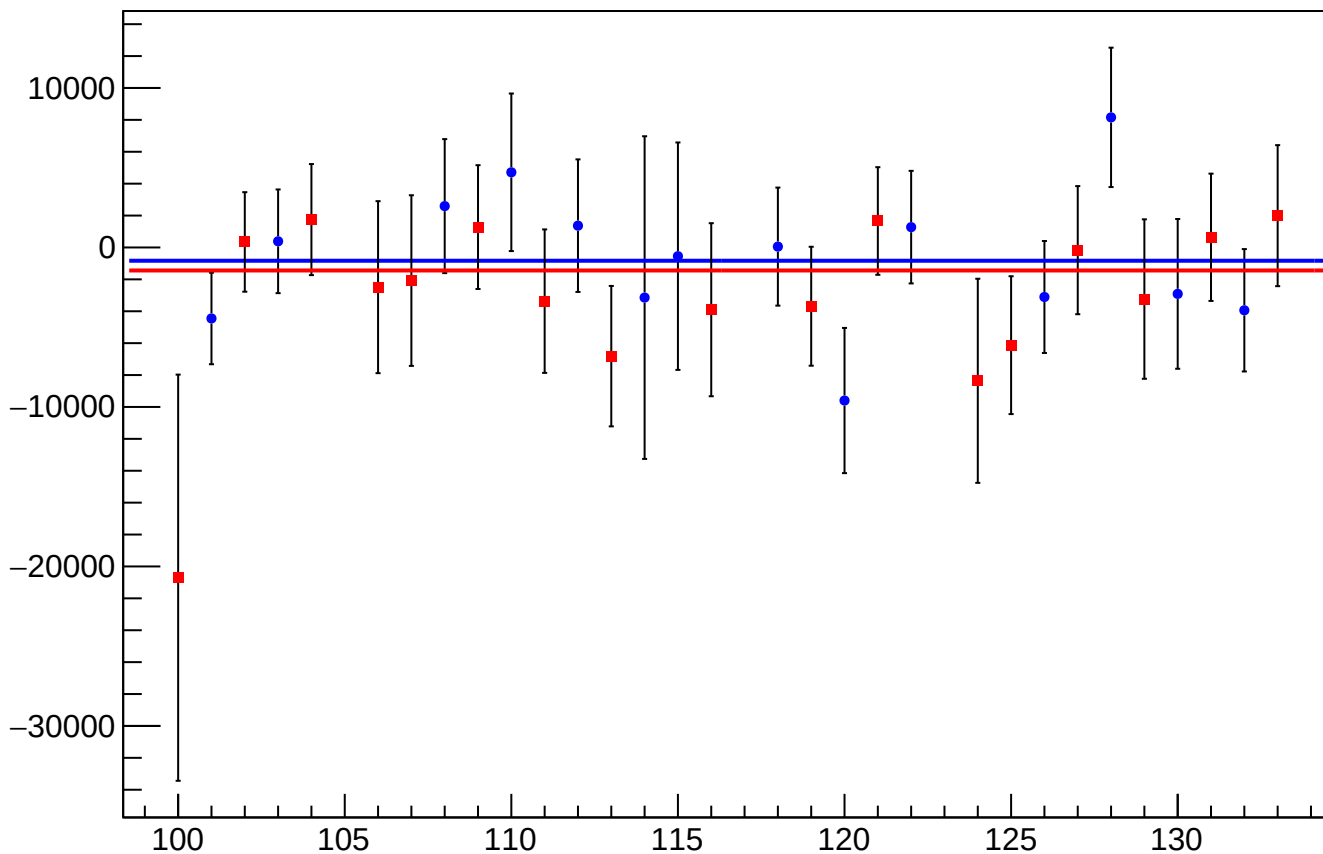
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 205.329 $\pm$ 0.041  $\chi^2$ /NDF: 302654.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -832.388+/-1085.081  $\chi^2/\text{NDF}$ : 13.6/13

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

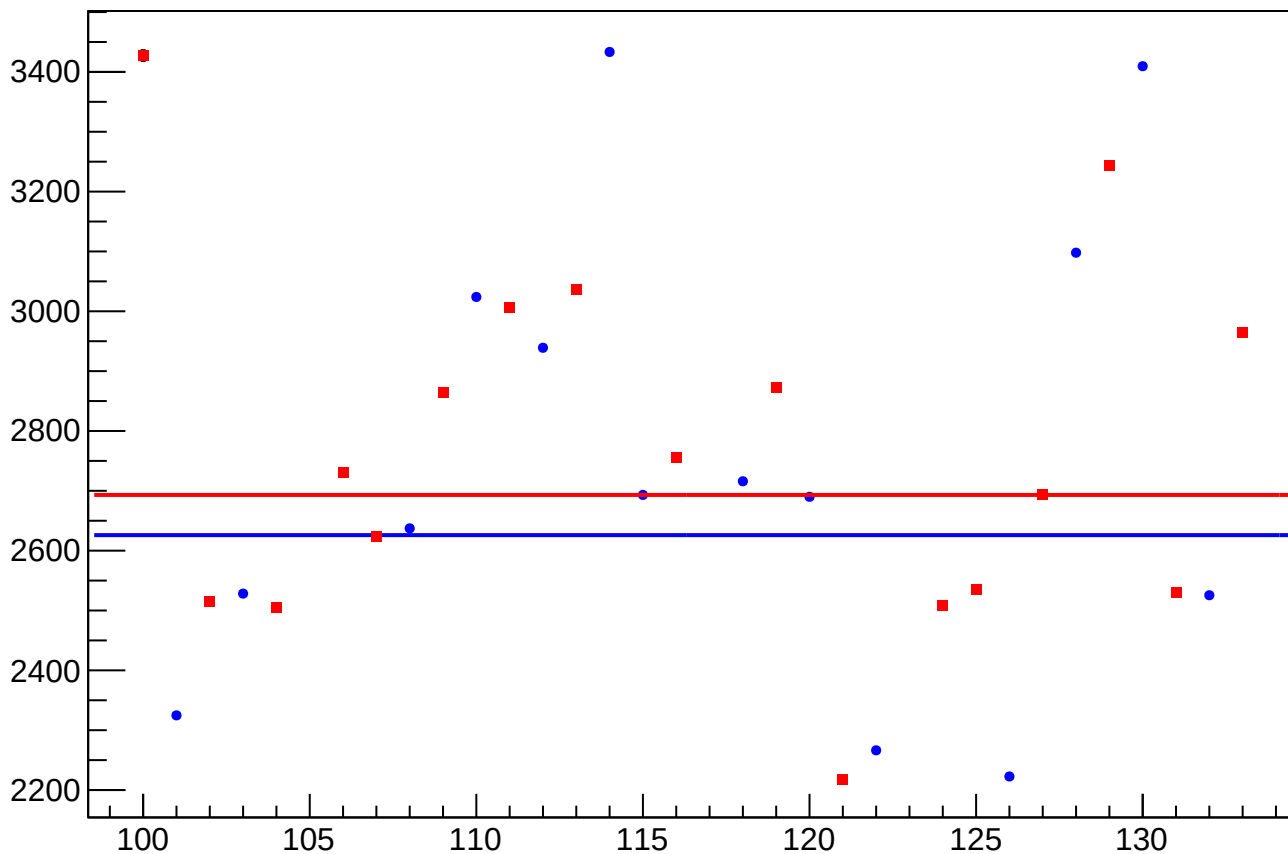
Right Out: -1442.769+/-1044.920  $\chi^2/\text{NDF}$ : 10.5/16

All: -1149.083+/-752.667  $\chi^2/\text{NDF}$ : 24.3/30

- 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\_26\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 2625.967 $\pm$ 0.767  $\chi^2$ /NDF: 190245.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2693.118 $\pm$ 0.739  $\chi^2$ /NDF: 129370.7/16

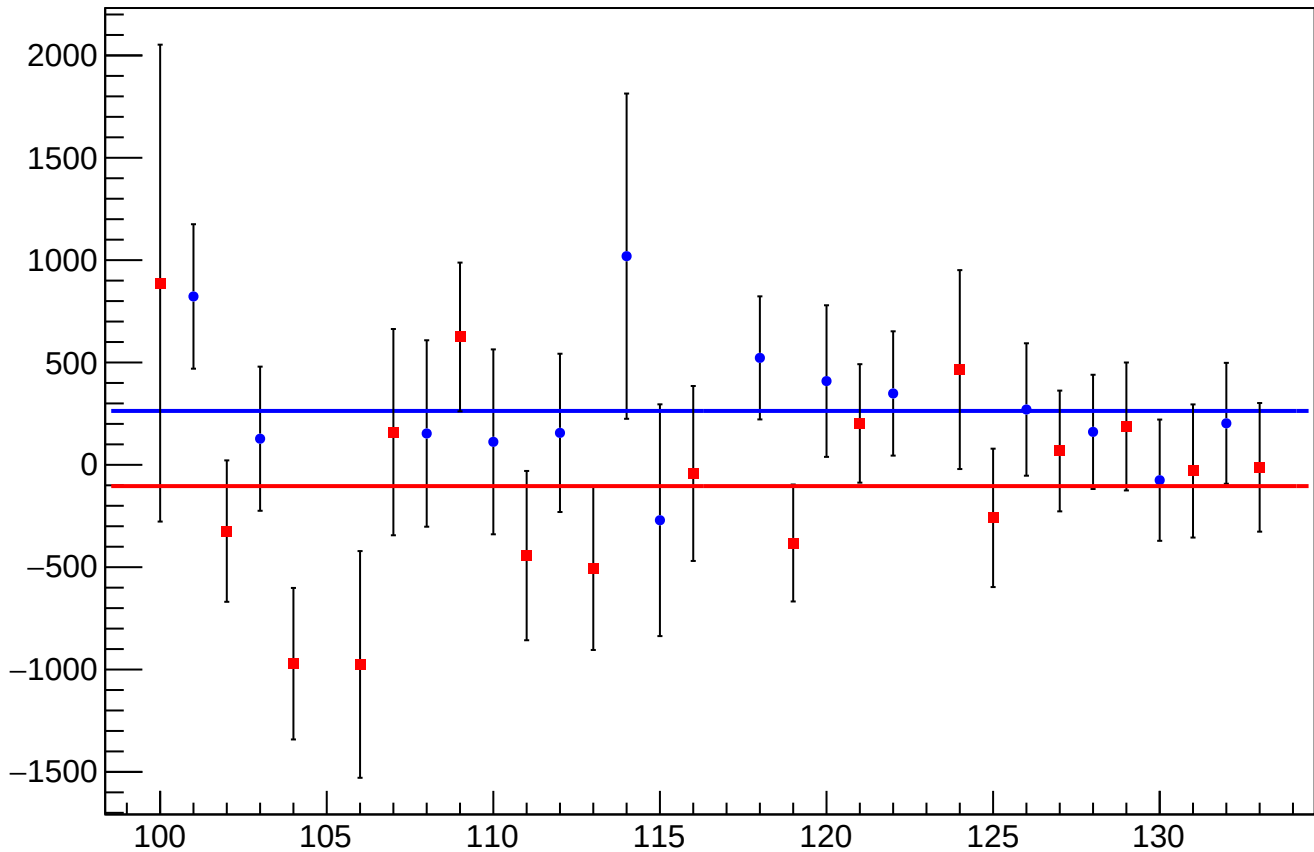
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2660.808 $\pm$ 0.532  $\chi^2$ /NDF: 323590.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 263.330 $\pm$ 94.621  $\chi^2$ /NDF: 7.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -103.882 $\pm$ 88.637  $\chi^2$ /NDF: 20.1/16

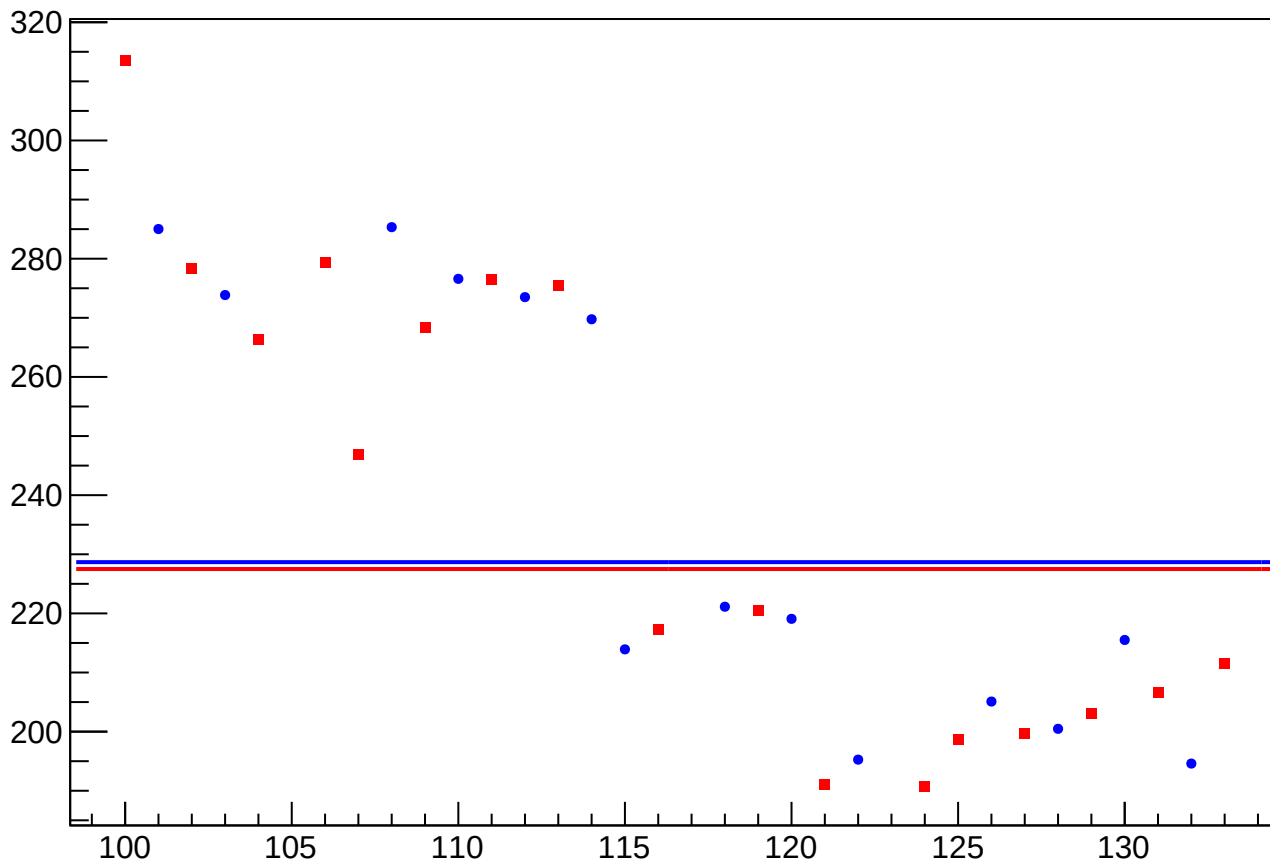
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 67.745 $\pm$ 64.688  $\chi^2$ /NDF: 35.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 228.671 $\pm$ 0.067  $\chi^2$ /NDF: 259458.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 227.508 $\pm$ 0.063  $\chi^2$ /NDF: 282421.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

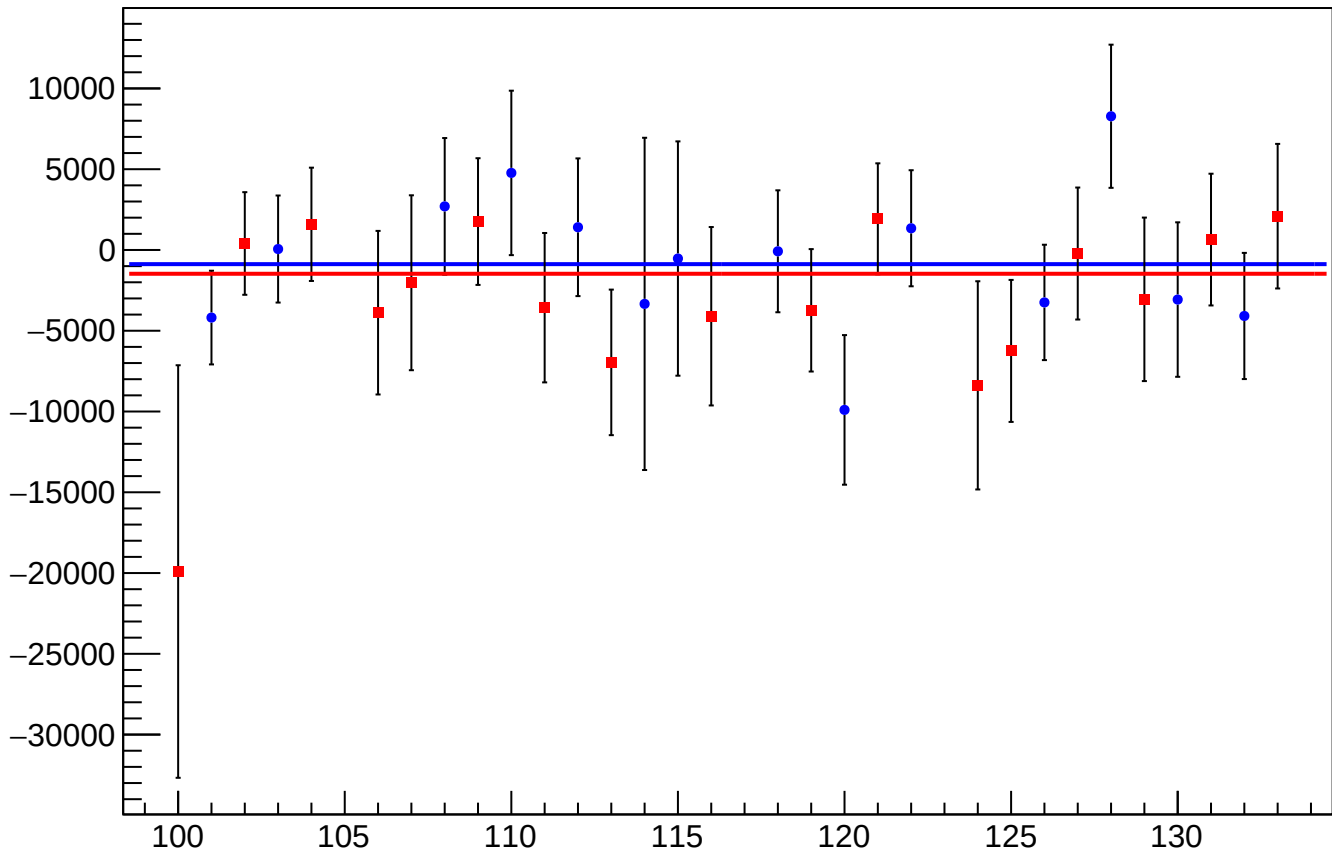
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 228.052 $\pm$ 0.046  $\chi^2$ /NDF: 542041.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_26\_dd\_dit\_correction\_mean vs Slug



Right In: -876.902+/-1103.711  $\chi^2/\text{NDF}$ : 13.5/13

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

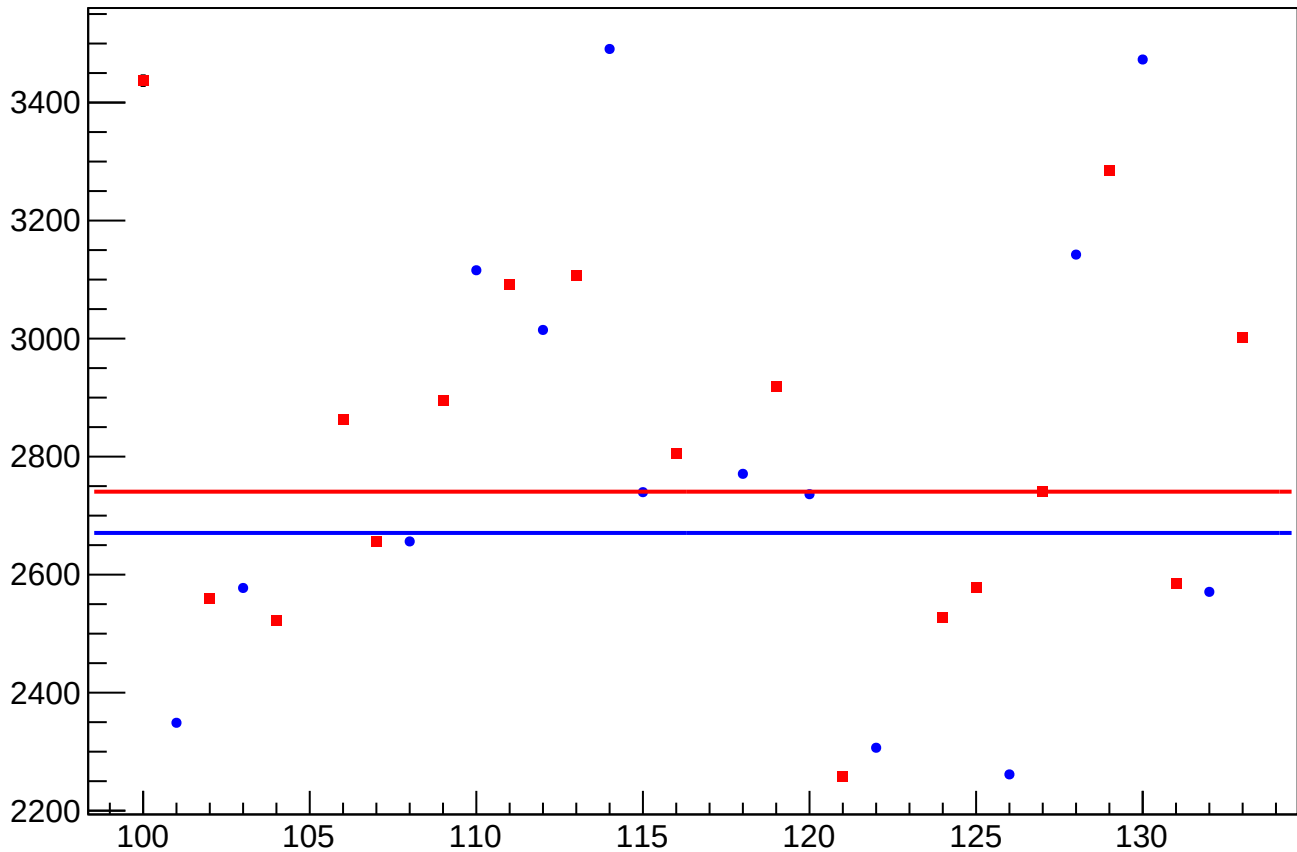
Right Out: -1473.011+/-1058.363  $\chi^2/\text{NDF}$ : 10.8/16

All: -1187.454+/-763.904  $\chi^2/\text{NDF}$ : 24.4/30

- 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\_26\_dd\_dit\_correction\_rms vs Slug



Right In: 2670.674+/-0.780  $\chi^2/\text{NDF}$ : 196307.6/13

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

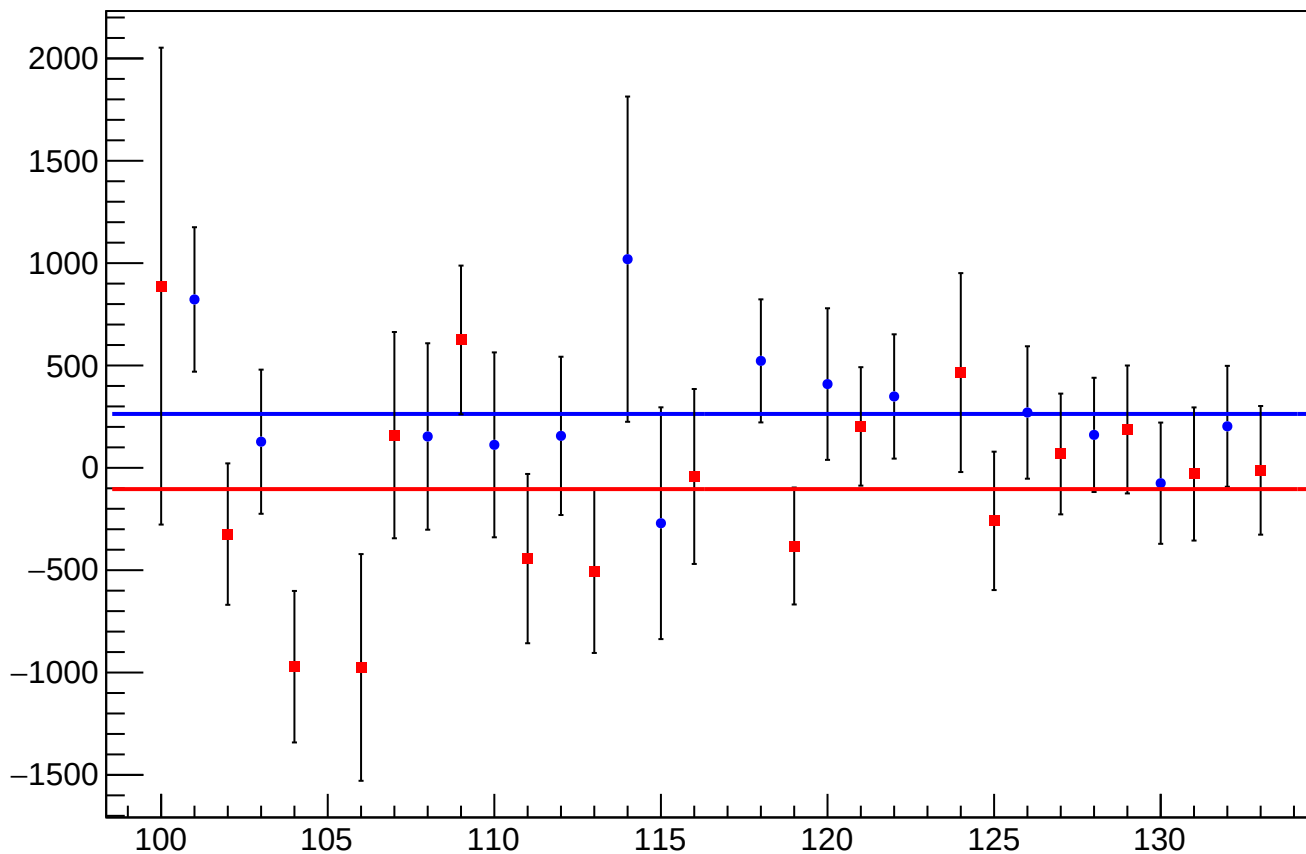
Right Out: 2740.594+/-0.748  $\chi^2/\text{NDF}$ : 131443.4/16

All: 2707.100+/-0.540  $\chi^2/\text{NDF}$ : 331932.6/30

- 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\_26\_dd\_mean vs Slug



Right In: 263.329+/-94.620  $\chi^2/\text{NDF}$ : 7.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -103.879+/-88.636  $\chi^2/\text{NDF}$ : 20.1/16

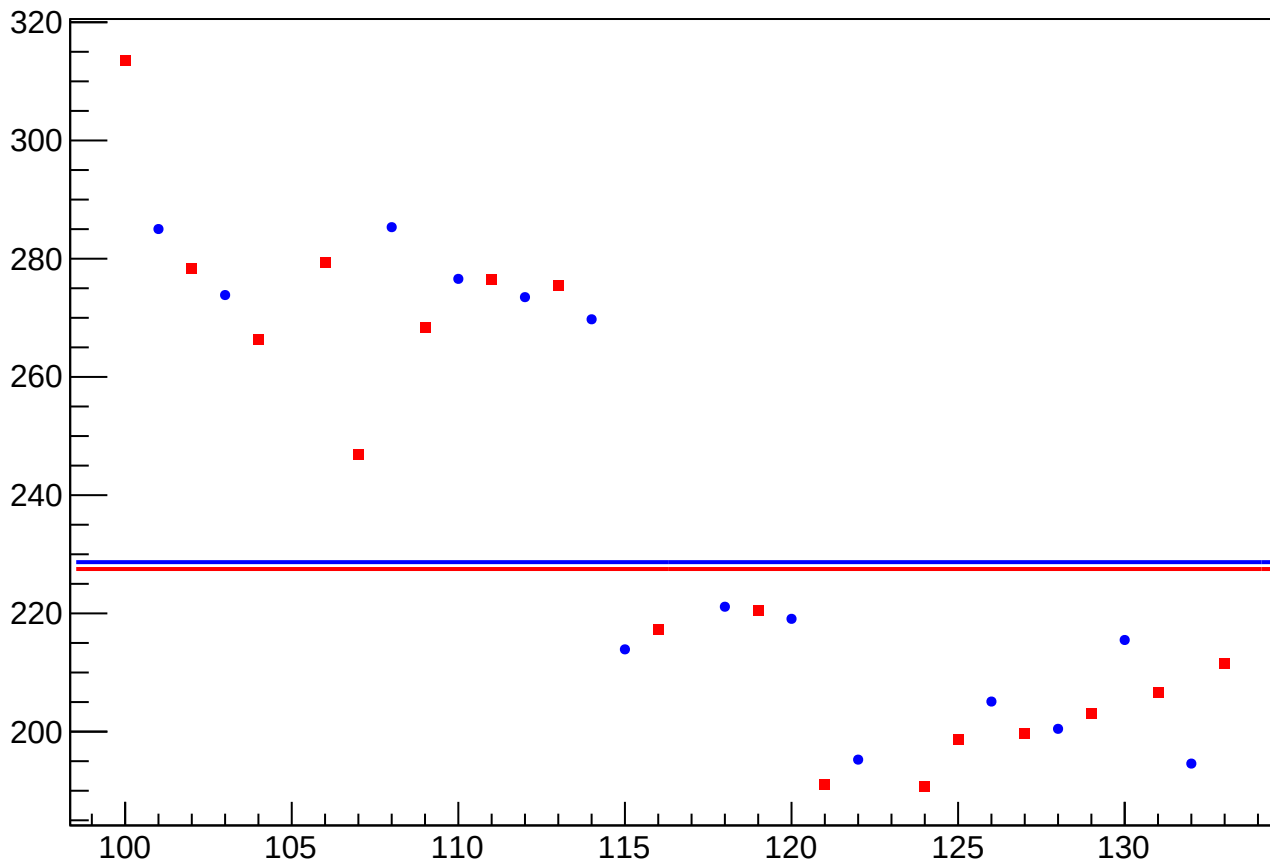
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.747+/-64.687  $\chi^2/\text{NDF}$ : 35.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 228.670 $\pm$ 0.067  $\chi^2$ /NDF: 259459.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 227.507 $\pm$ 0.063  $\chi^2$ /NDF: 282417.1/16

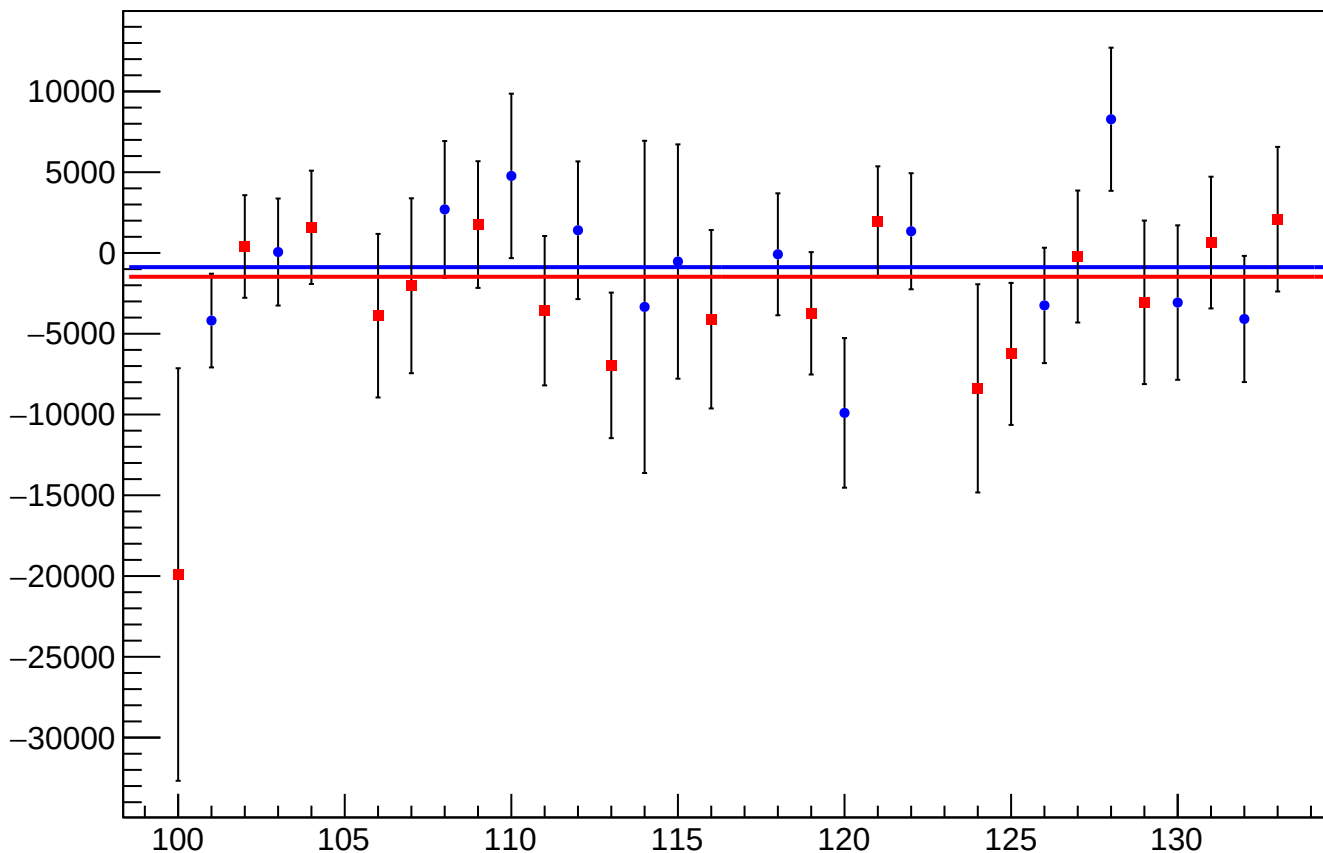
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 228.050 $\pm$ 0.046  $\chi^2$ /NDF: 542037.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In:  $-876.901 \pm 1103.708$   $\chi^2/\text{NDF}$ : 13.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1473.007 \pm 1058.360$   $\chi^2/\text{NDF}$ : 10.8/16

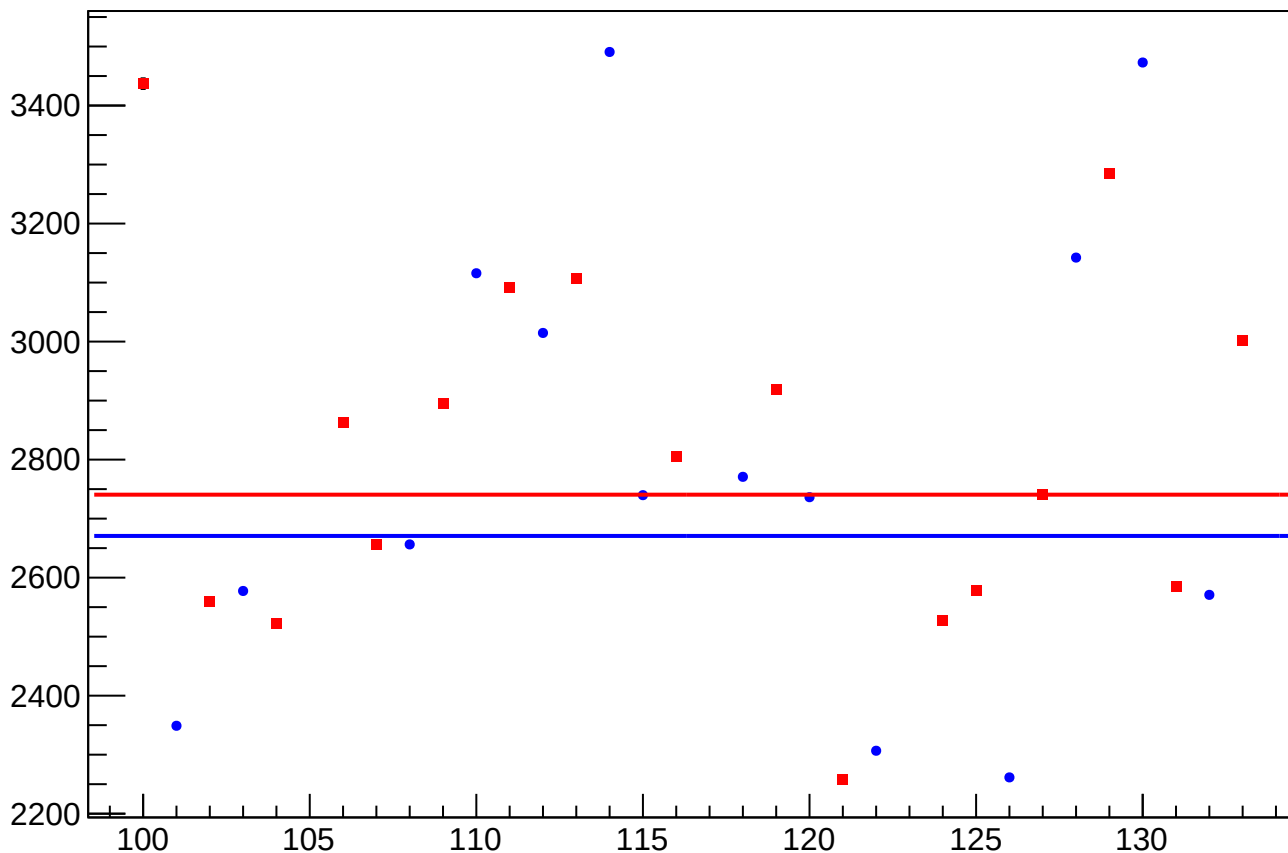
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1187.451 \pm 763.902$   $\chi^2/\text{NDF}$ : 24.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 2670.668+/-0.780  $\chi^2/\text{NDF}$ : 196303.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2740.589+/-0.748  $\chi^2/\text{NDF}$ : 131442.0/16

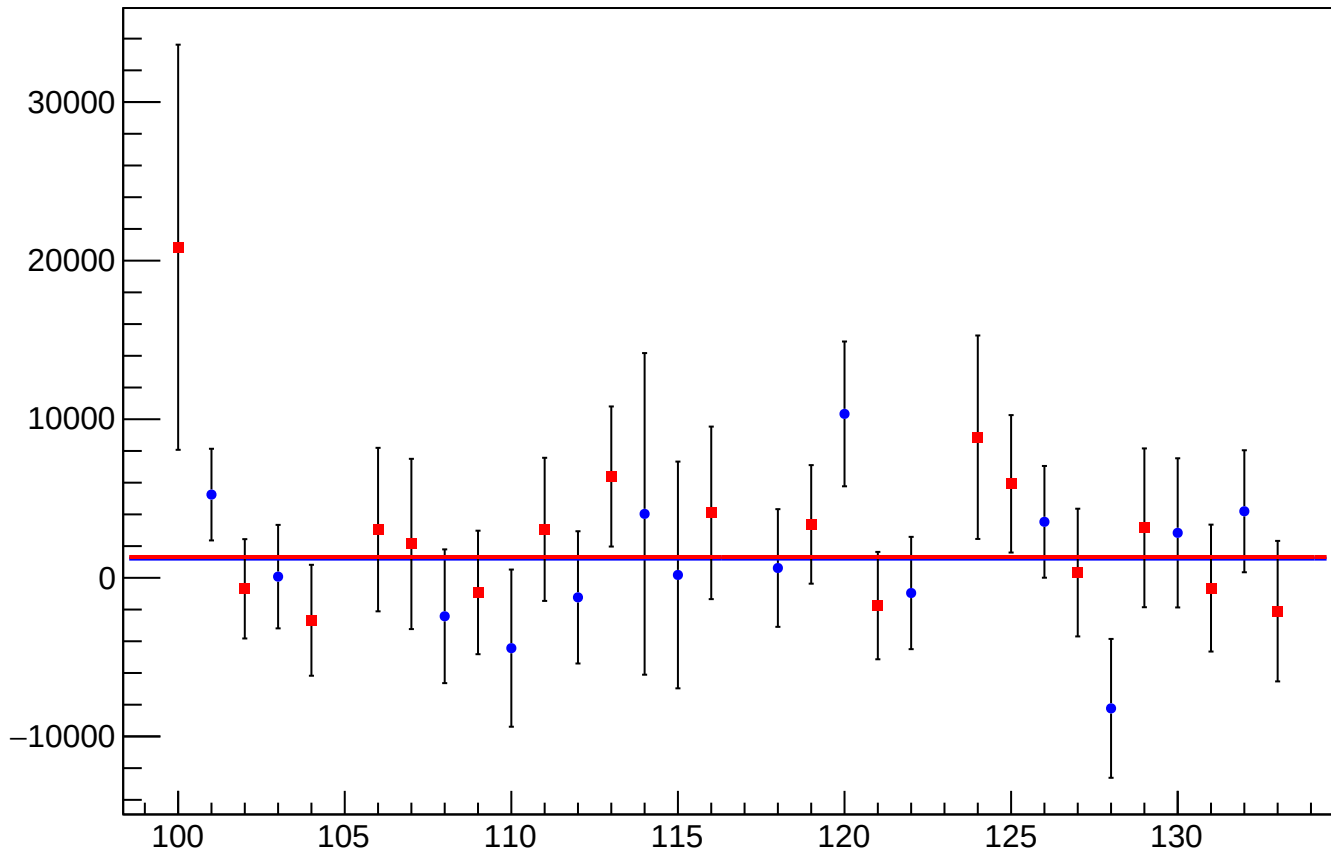
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2707.094+/-0.540  $\chi^2/\text{NDF}$ : 331927.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_mean vs Slug



Right In: 1212.090 $\pm$ 1088.922  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1313.823 $\pm$ 1046.158  $\chi^2$ /NDF: 10.9/16

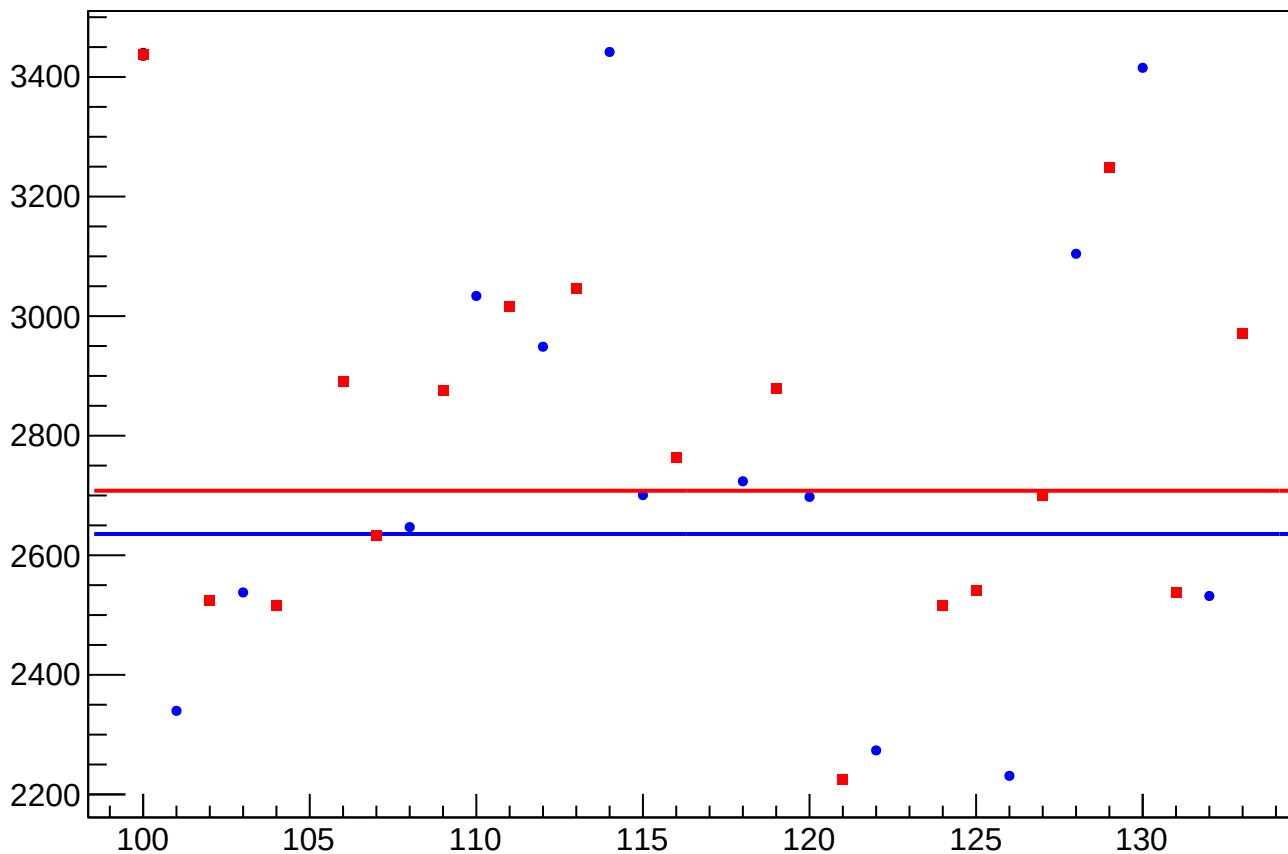
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1264.993 $\pm$ 754.410  $\chi^2$ /NDF: 25.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_dd\_rms vs Slug



Right In: 2635.588+/-0.770  $\chi^2/\text{NDF}$ : 187897.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2707.960+/-0.740  $\chi^2/\text{NDF}$ : 131092.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

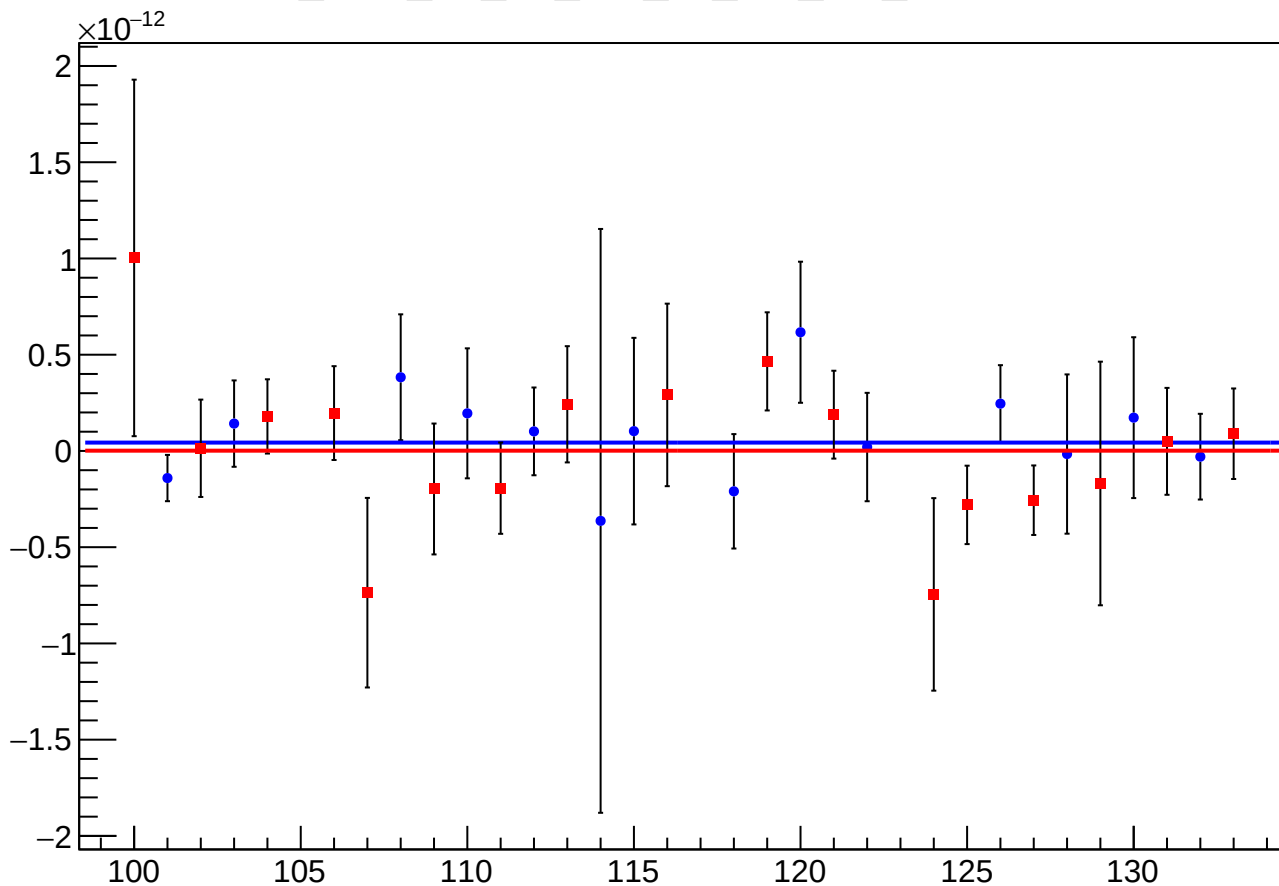
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2673.223+/-0.533  $\chi^2/\text{NDF}$ : 323583.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_26\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.3/16

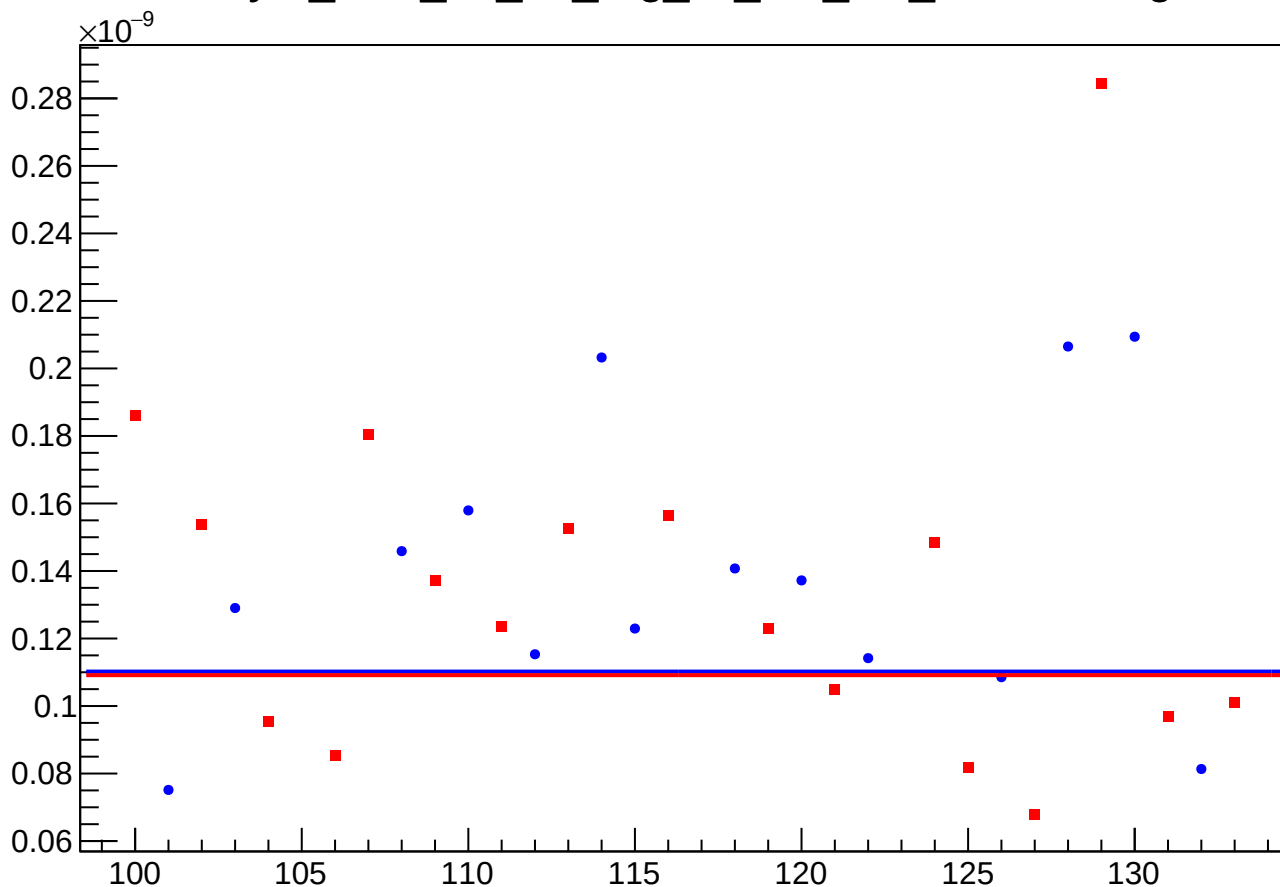
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 25.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 544945.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 548325.6/16

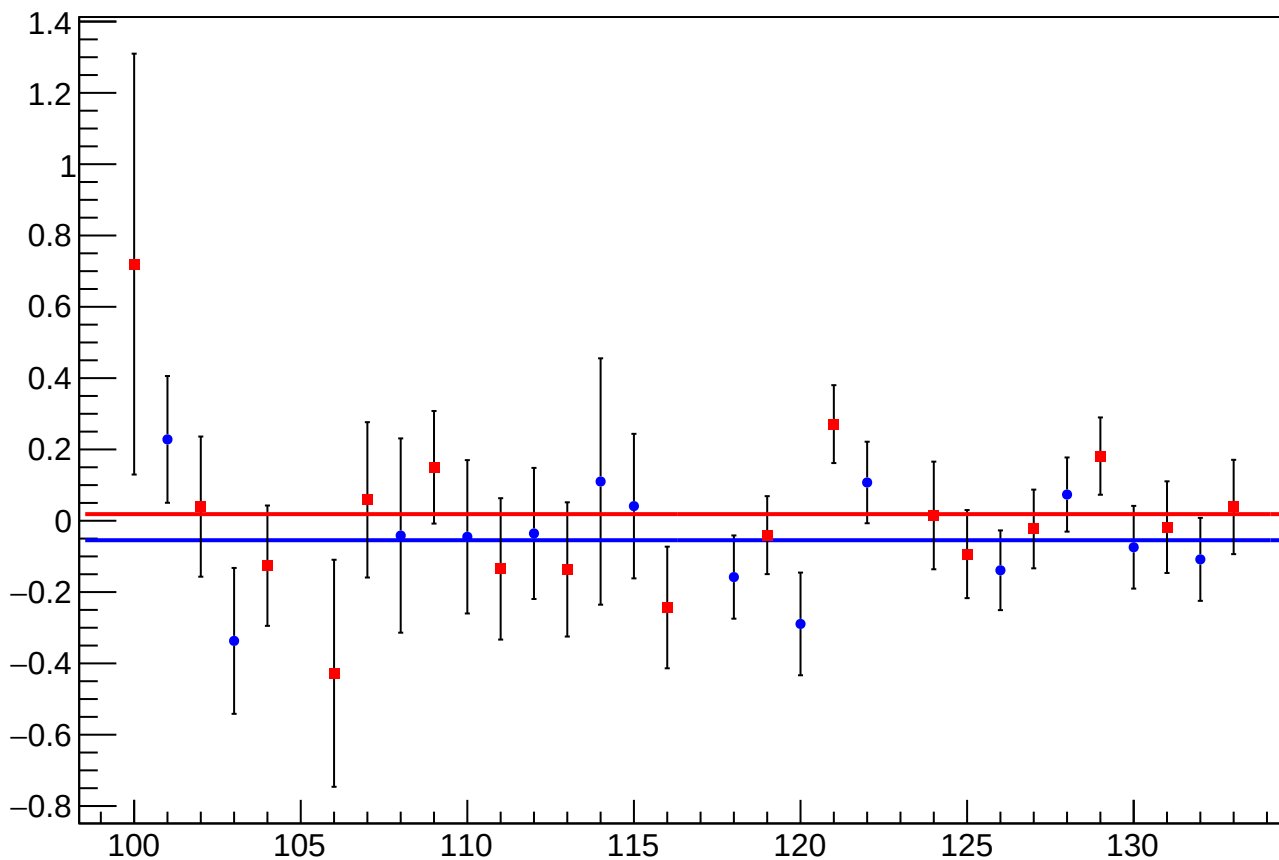
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1093528.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.055+/-0.039  $\chi^2/\text{NDF}$ : 12.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.019+/-0.036  $\chi^2/\text{NDF}$ : 17.4/16

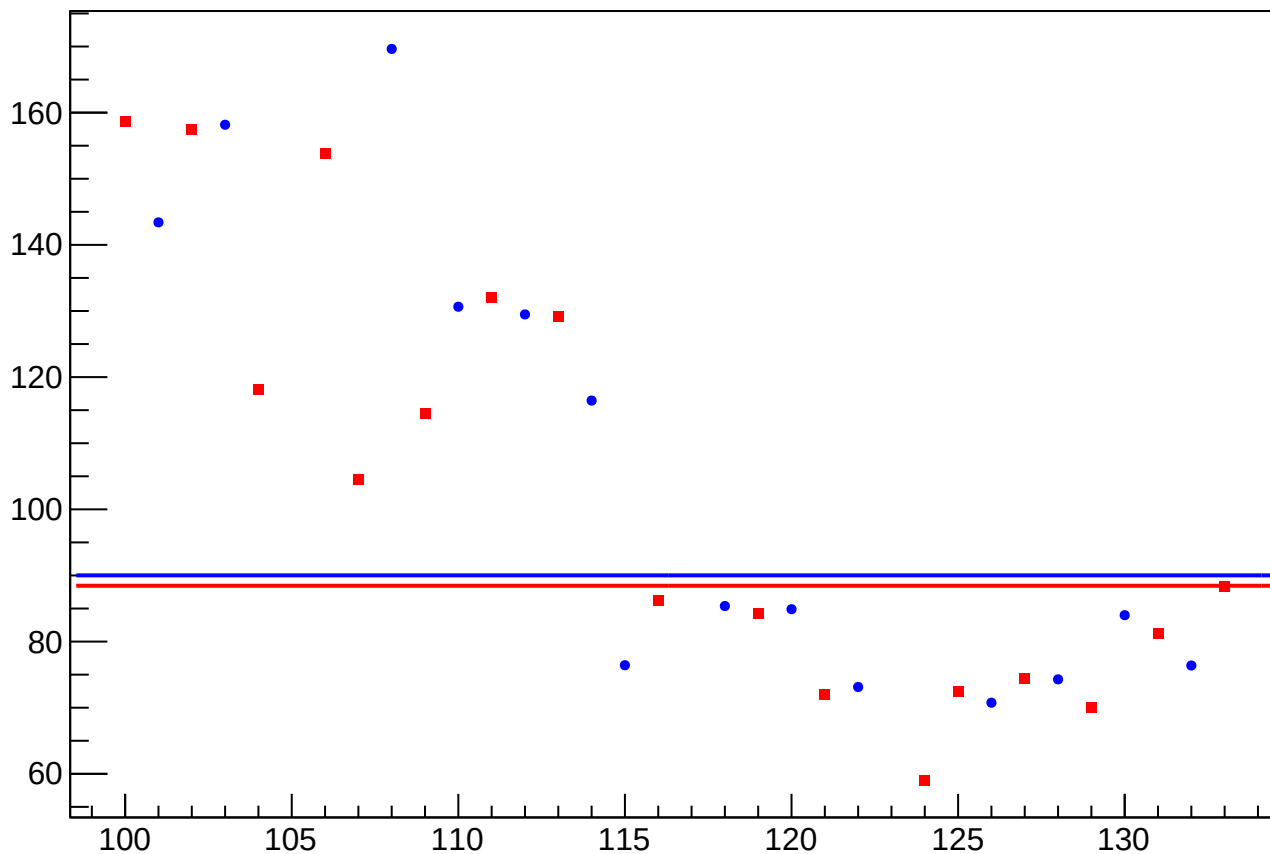
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.015+/-0.026  $\chi^2/\text{NDF}$ : 32.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 90.014 $\pm$ 0.027  $\chi^2$ /NDF: 944862.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 88.446 $\pm$ 0.025  $\chi^2$ /NDF: 931320.4/16

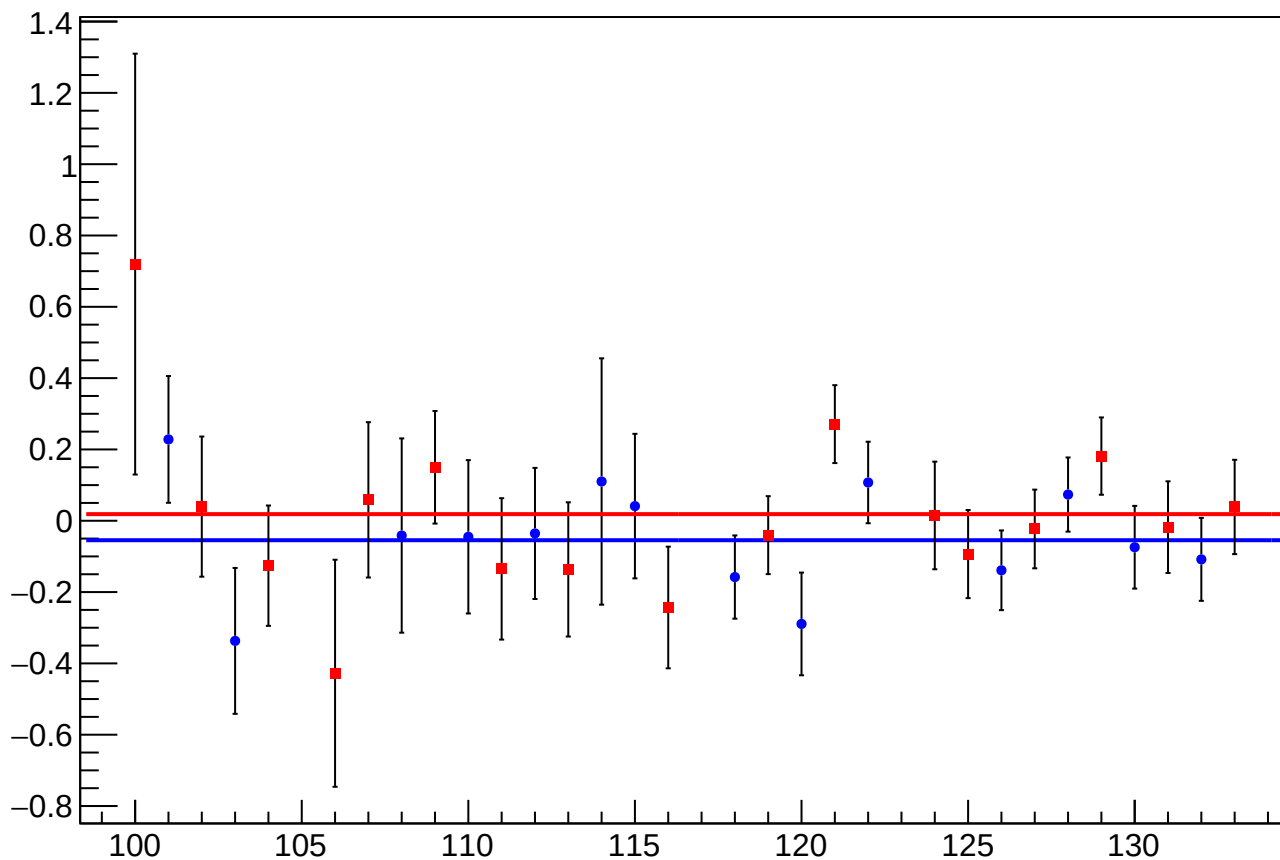
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.169 $\pm$ 0.019  $\chi^2$ /NDF: 1877962.9/30

- 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: -0.055+/-0.039  $\chi^2/\text{NDF}$ : 12.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.019+/-0.036  $\chi^2/\text{NDF}$ : 17.4/16

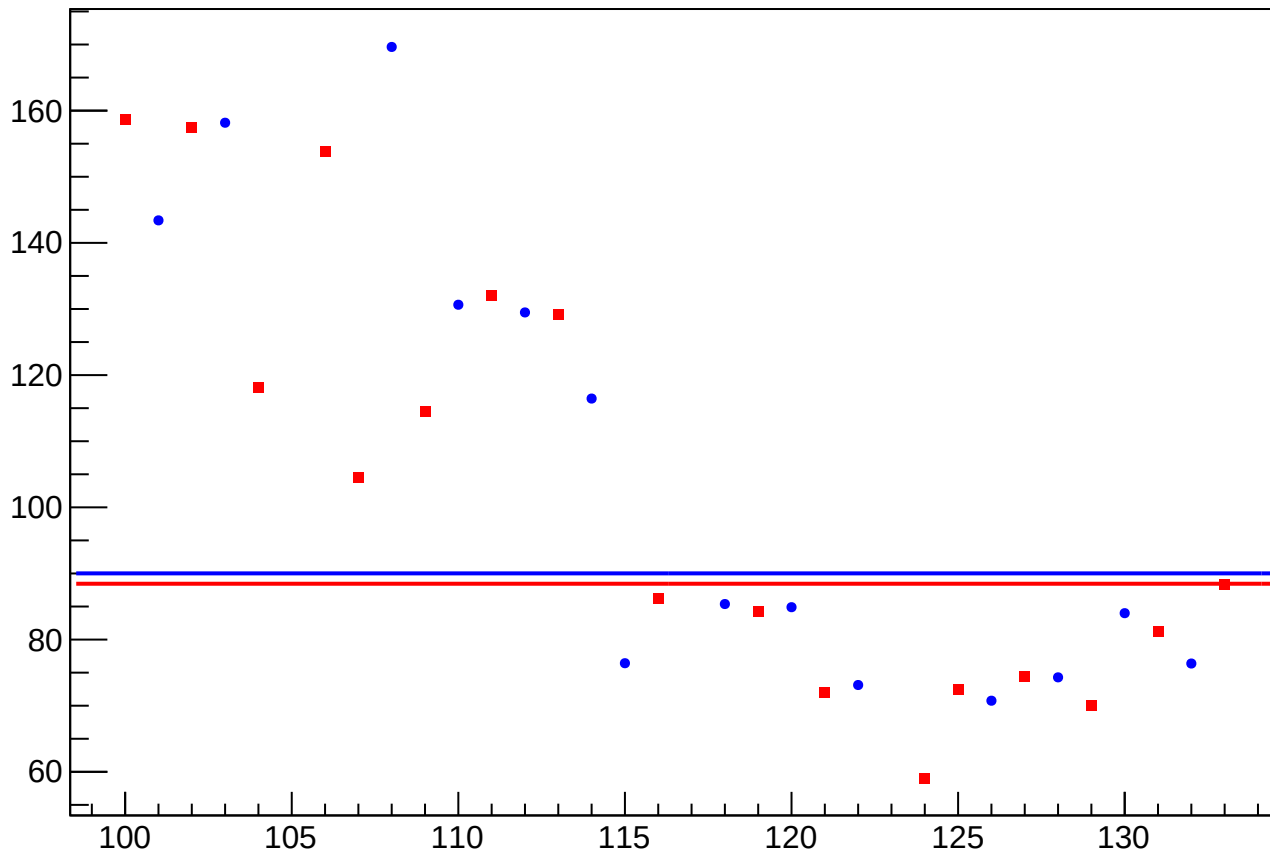
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.015+/-0.026  $\chi^2/\text{NDF}$ : 32.1/30

- 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: 90.014 $\pm$ 0.027  $\chi^2$ /NDF: 944862.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 88.446 $\pm$ 0.025  $\chi^2$ /NDF: 931320.4/16

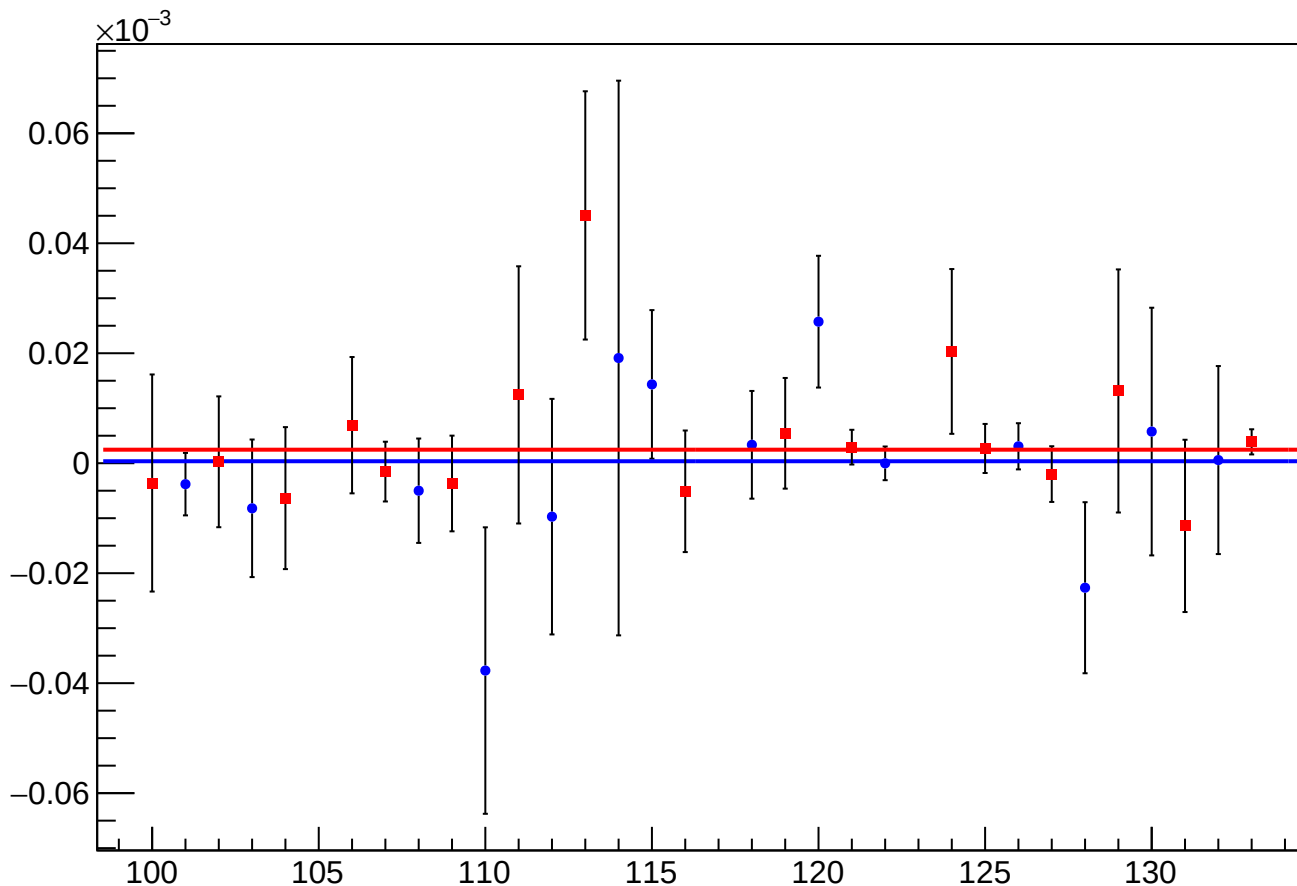
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.169 $\pm$ 0.019  $\chi^2$ /NDF: 1877962.9/30

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 12.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.7/16

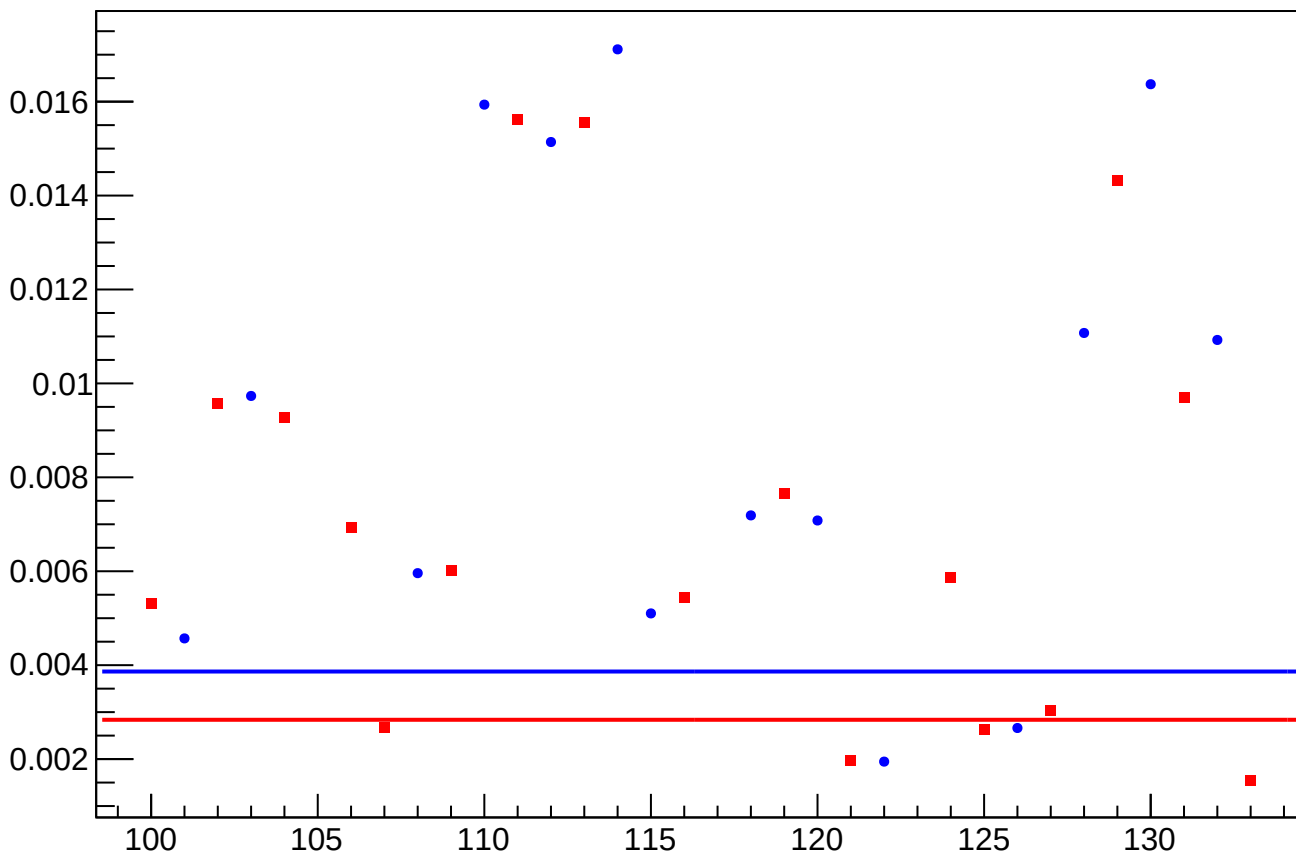
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 22.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 4417558.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 5268265.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

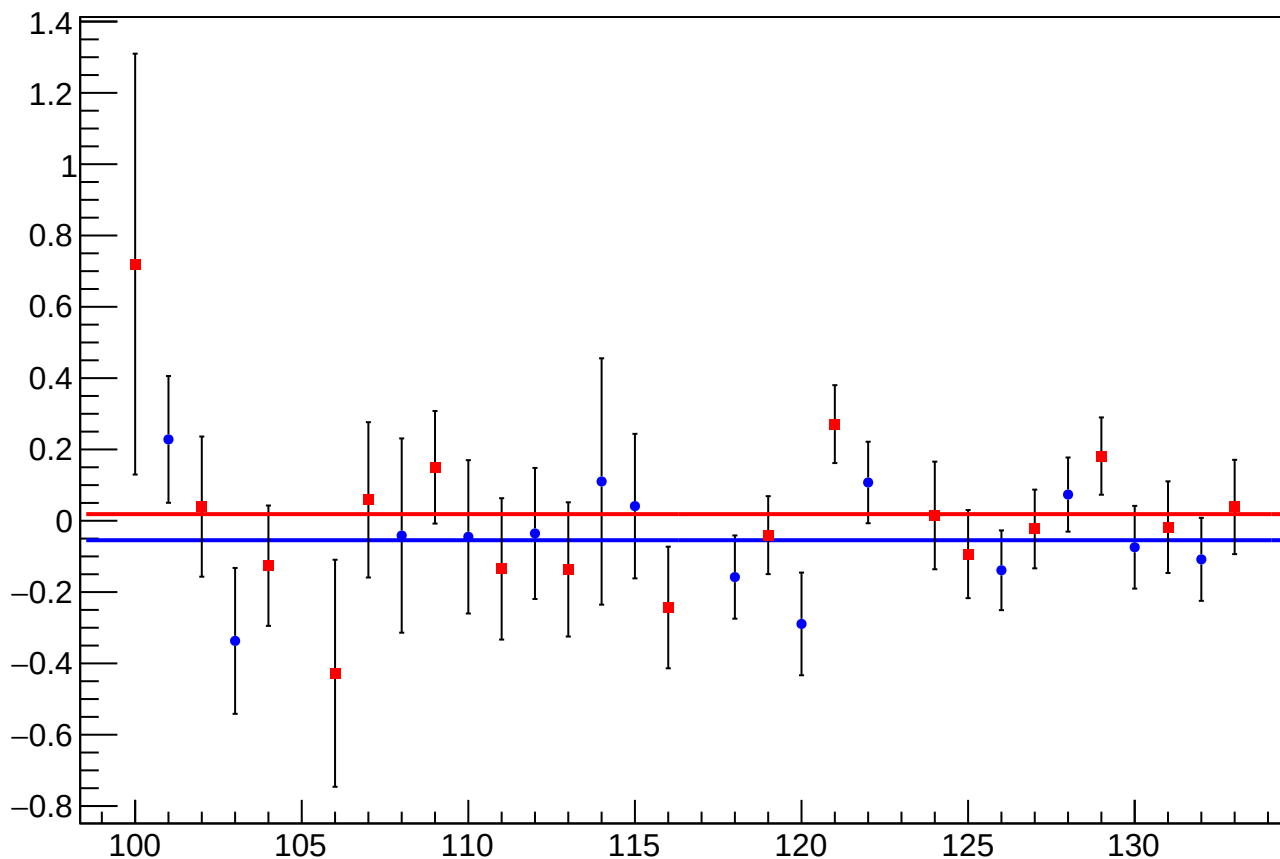
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 10032051.8/30

- 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: -0.055+/-0.039  $\chi^2/\text{NDF}$ : 12.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.019+/-0.036  $\chi^2/\text{NDF}$ : 17.4/16

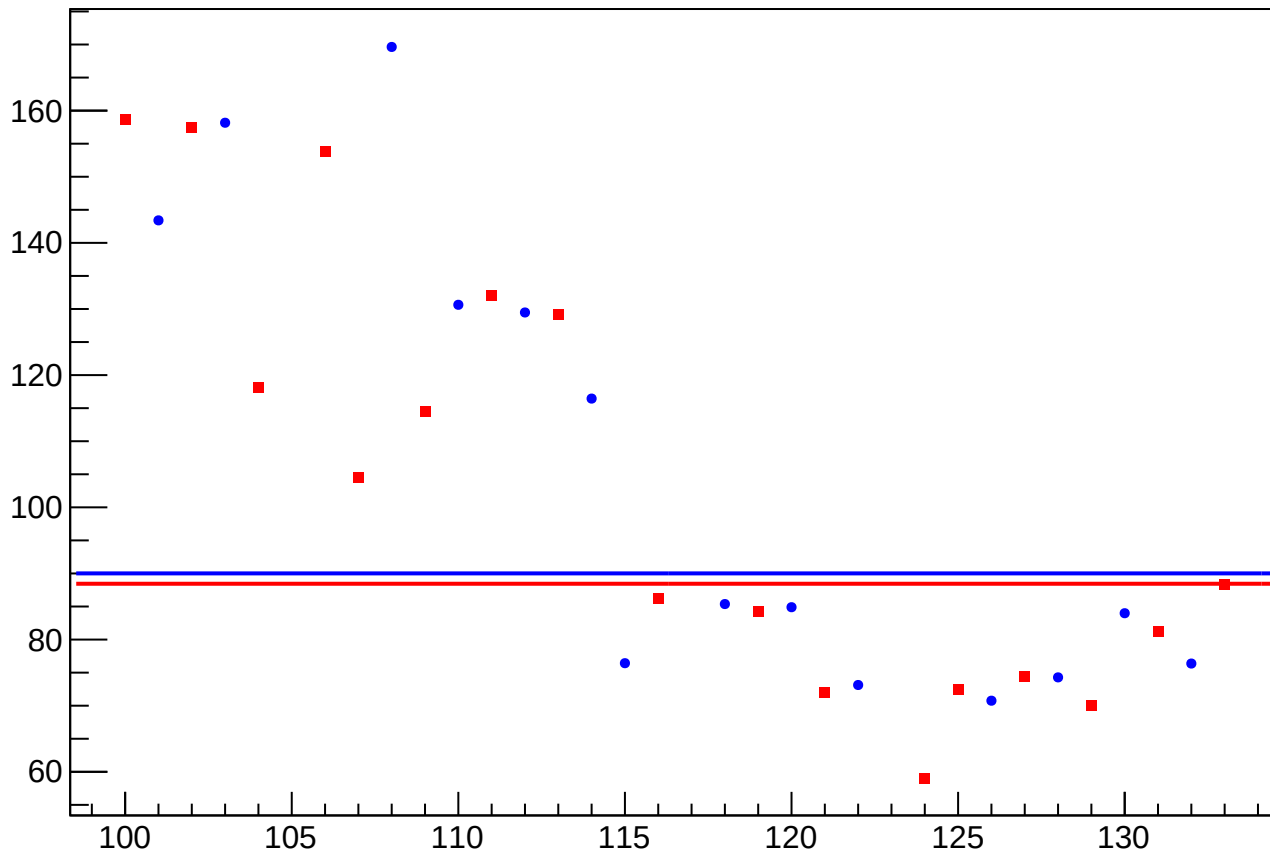
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.015+/-0.026  $\chi^2/\text{NDF}$ : 32.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 90.010 $\pm$ 0.027  $\chi^2$ /NDF: 944884.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 88.443 $\pm$ 0.025  $\chi^2$ /NDF: 931329.9/16

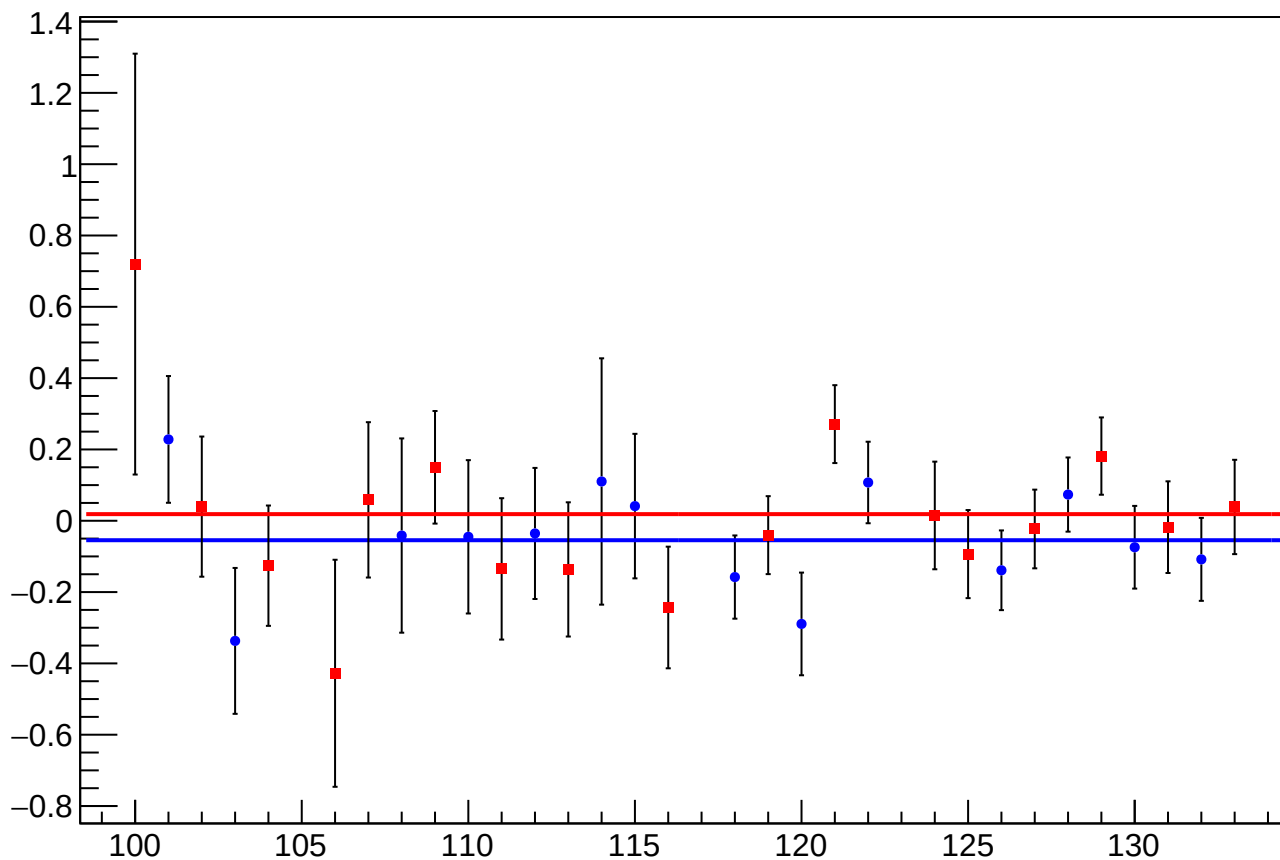
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.166 $\pm$ 0.019  $\chi^2$ /NDF: 1877991.9/30

- 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: -0.055 $\pm$ 0.039  $\chi^2$ /NDF: 12.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.019 $\pm$ 0.036  $\chi^2$ /NDF: 17.4/16

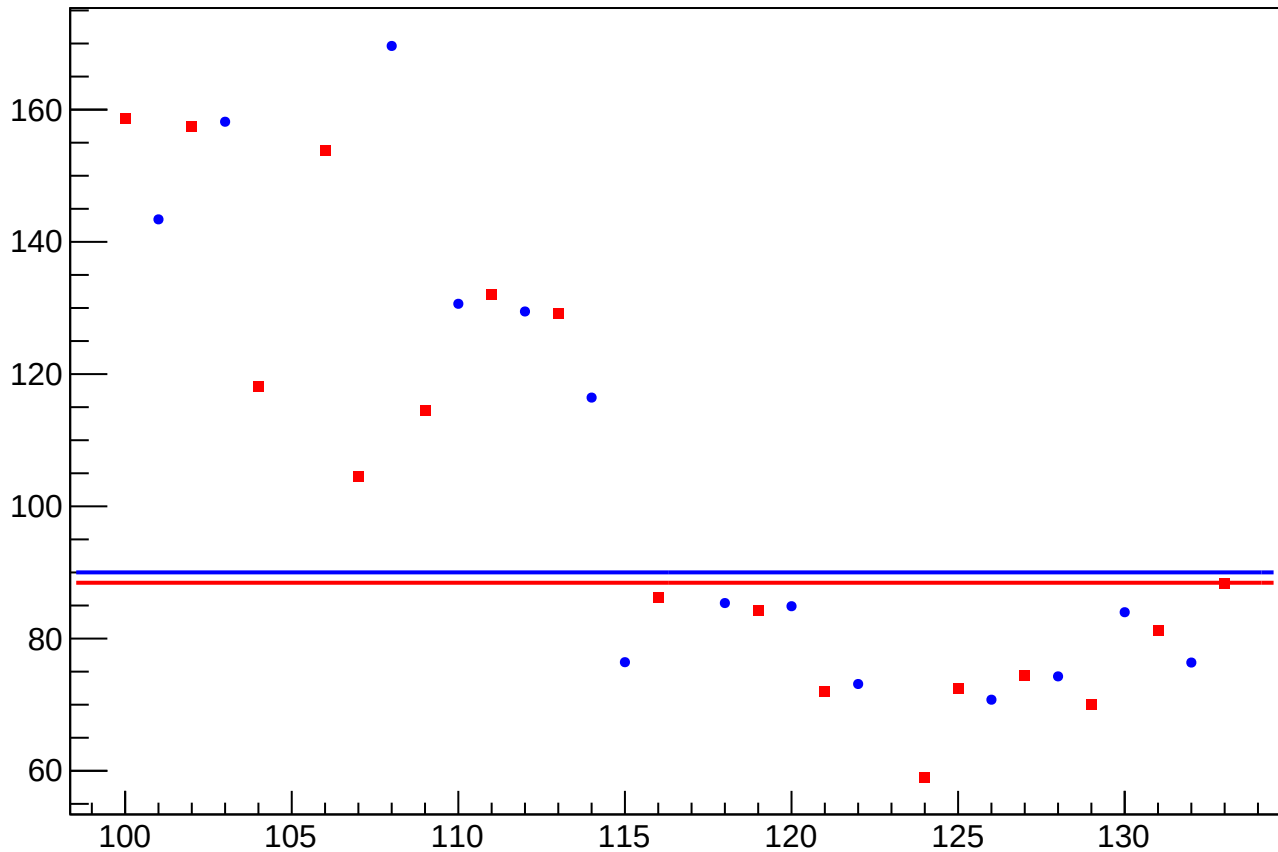
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.015 $\pm$ 0.026  $\chi^2$ /NDF: 32.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 90.010 $\pm$ 0.027  $\chi^2$ /NDF: 944884.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 88.443 $\pm$ 0.025  $\chi^2$ /NDF: 931329.9/16

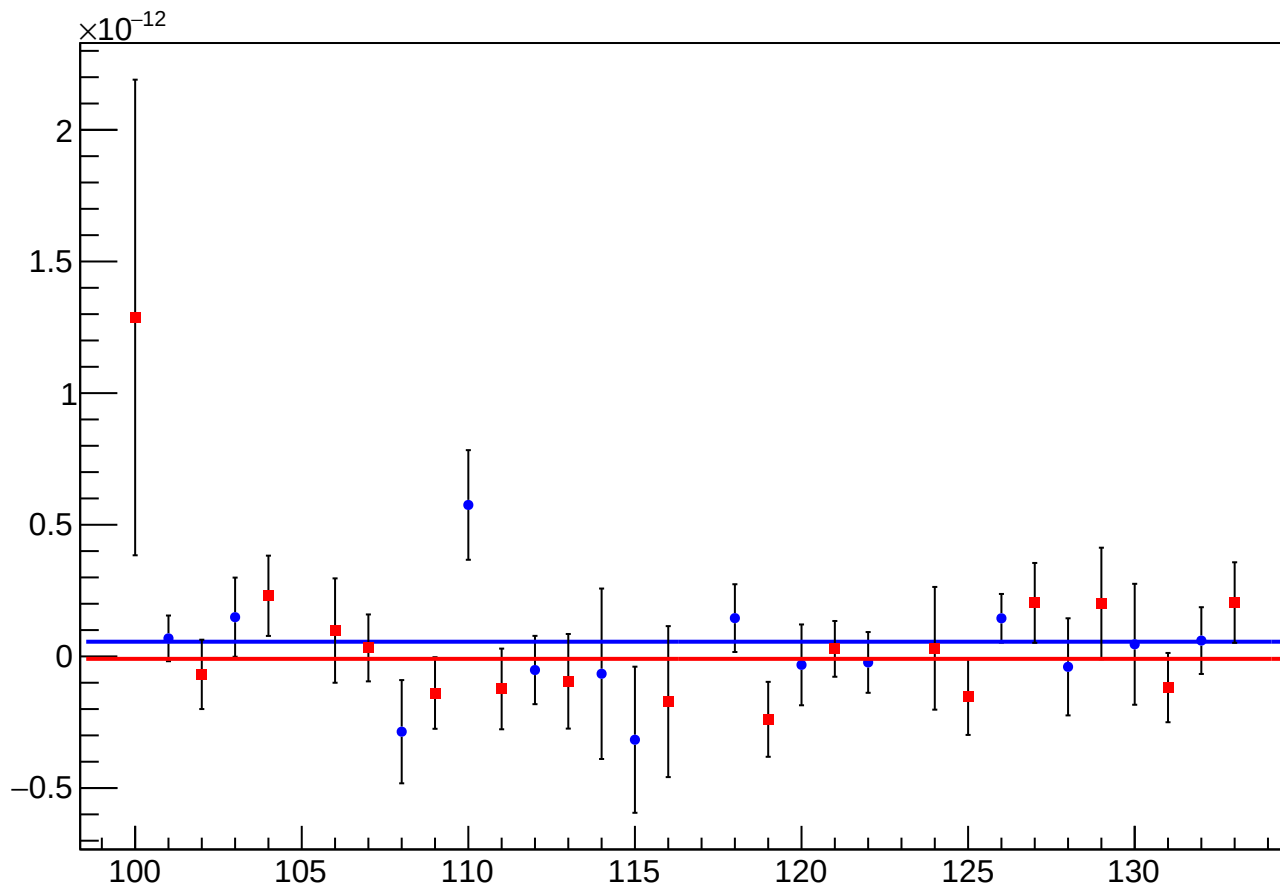
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.166 $\pm$ 0.019  $\chi^2$ /NDF: 1877991.9/30

- 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  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.5/16

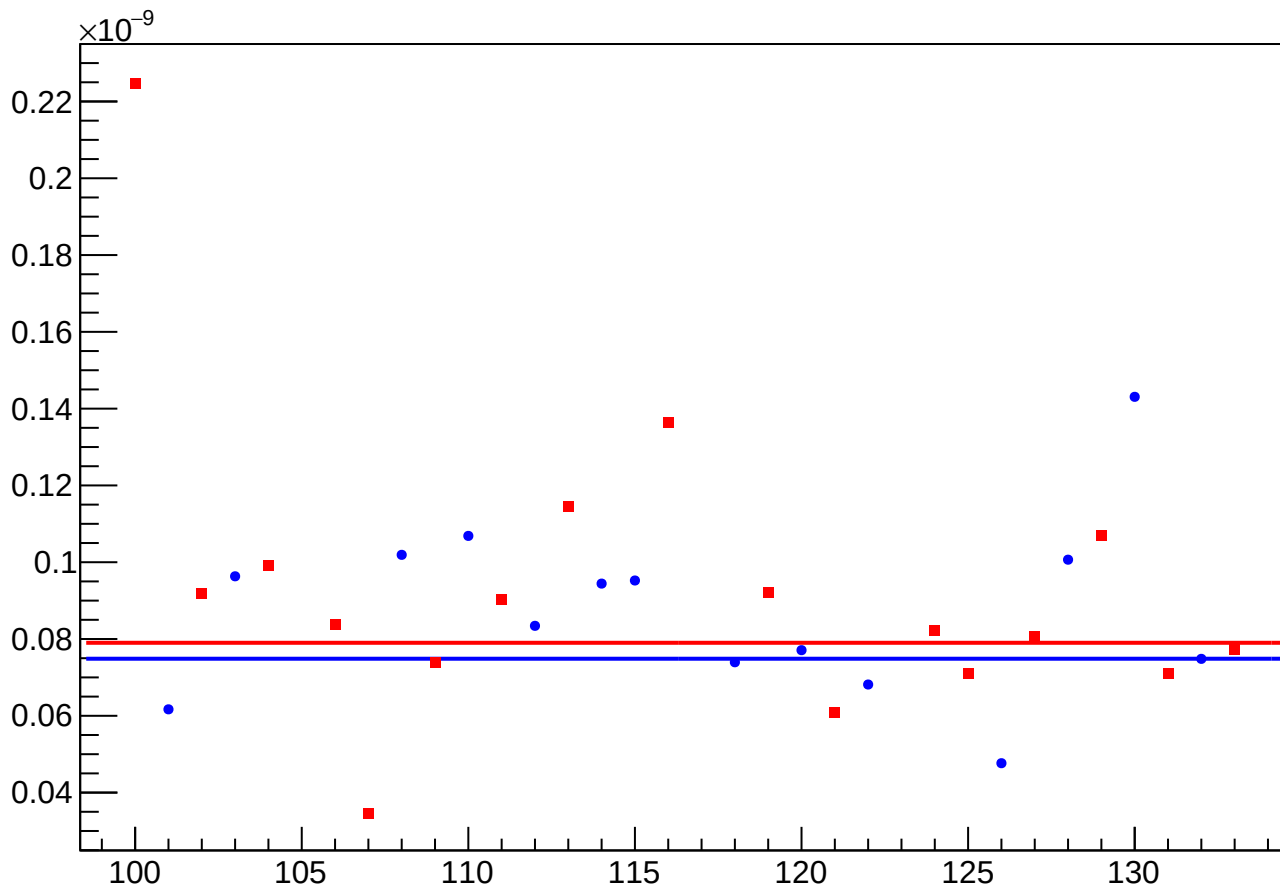
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 32.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 595387.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 648151.0/16

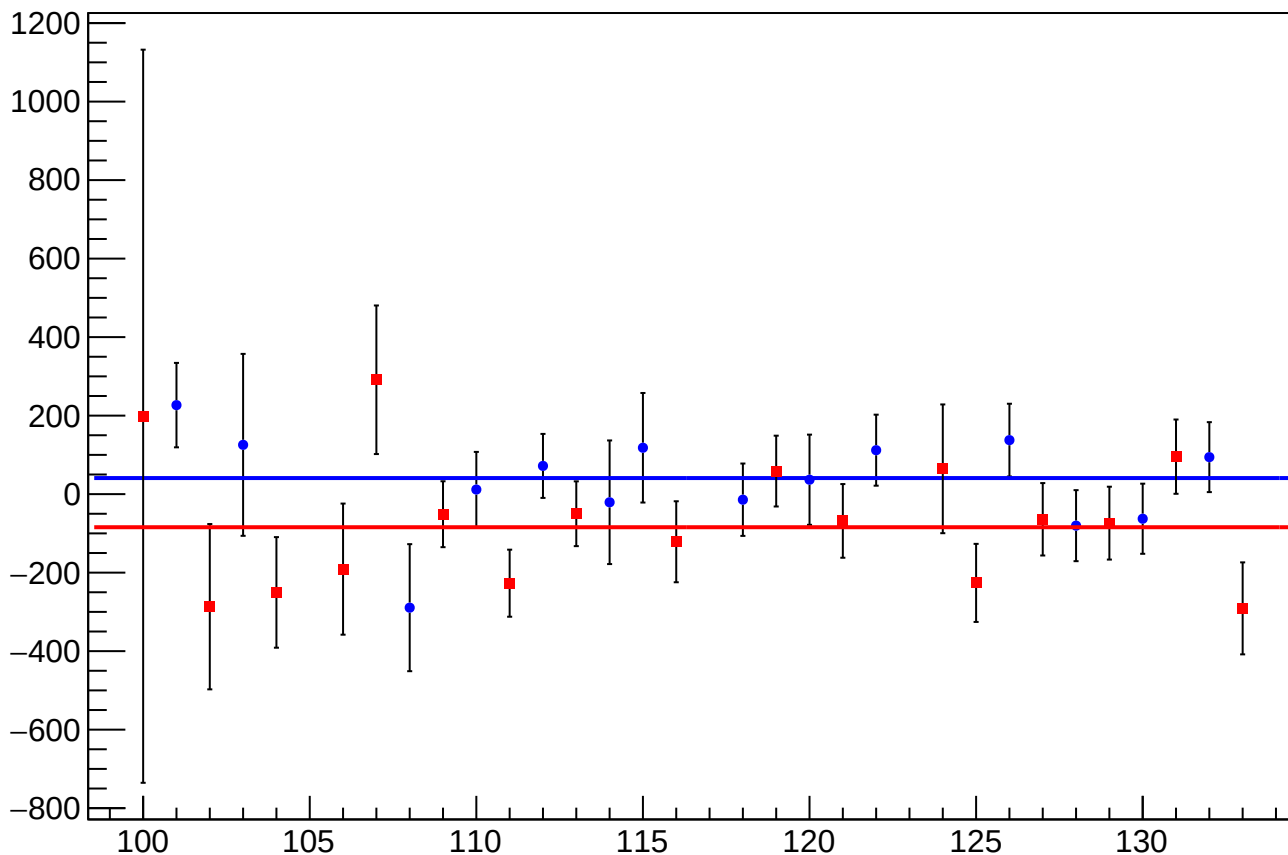
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1255722.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 40.948 $\pm$ 27.738  $\chi^2$ /NDF: 13.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -84.323 $\pm$ 26.257  $\chi^2$ /NDF: 22.2/16

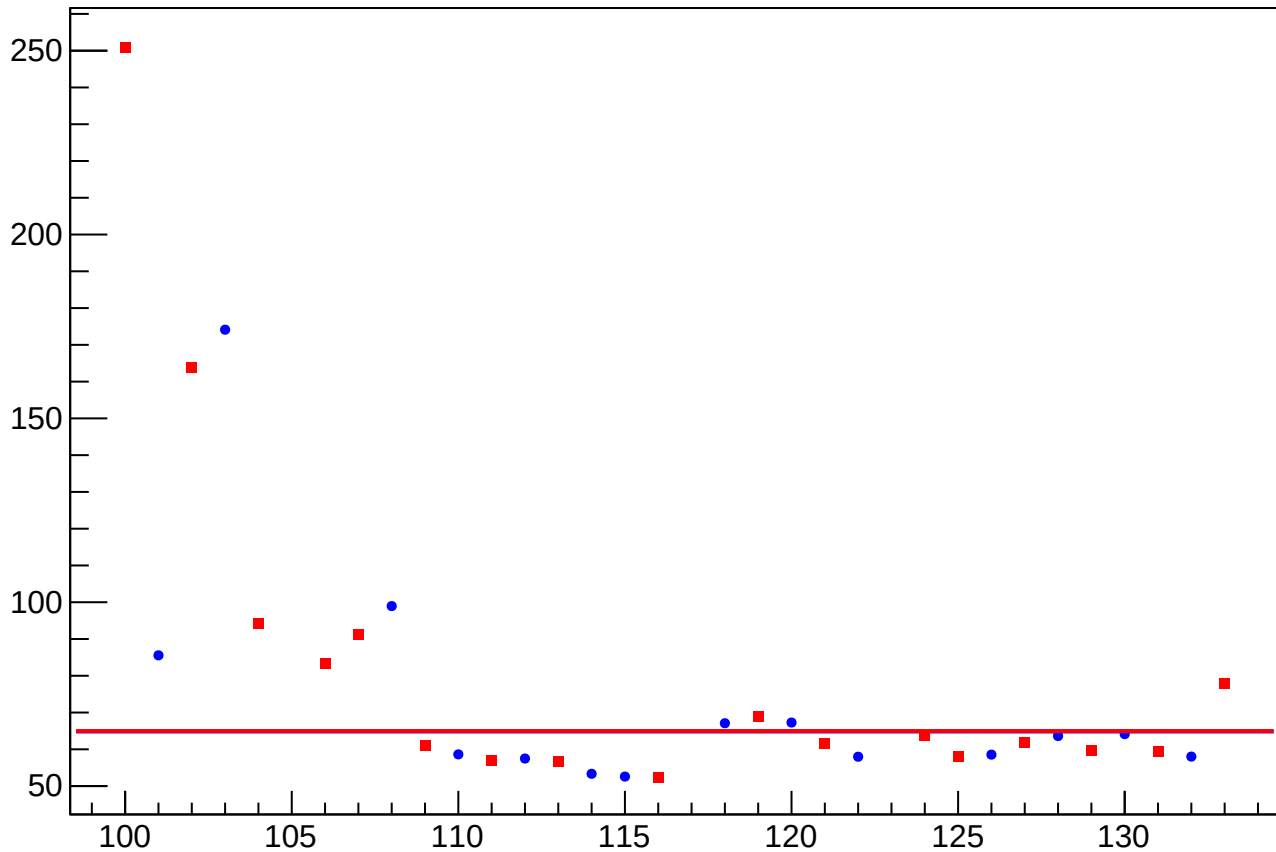
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -25.121 $\pm$ 19.069  $\chi^2$ /NDF: 46.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 64.867+/-0.020  $\chi^2/\text{NDF}$ : 693579.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.950+/-0.019  $\chi^2/\text{NDF}$ : 797217.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

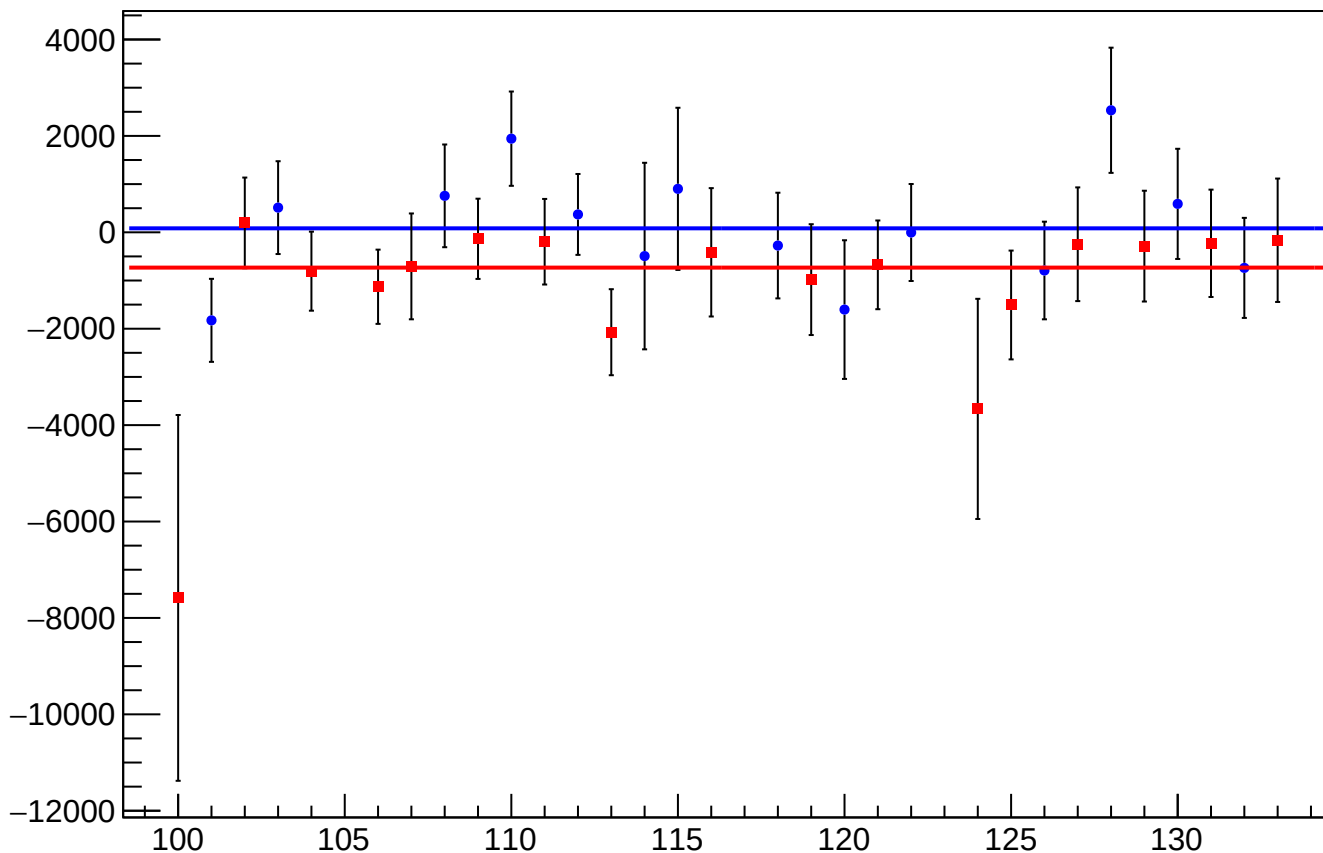
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.911+/-0.013  $\chi^2/\text{NDF}$ : 1490806.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_37\_dd\_reg\_correction\_mean vs Slug



Right In: 82.601 $\pm$ 289.167  $\chi^2$ /NDF: 16.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -732.204 $\pm$ 253.642  $\chi^2$ /NDF: 10.6/16

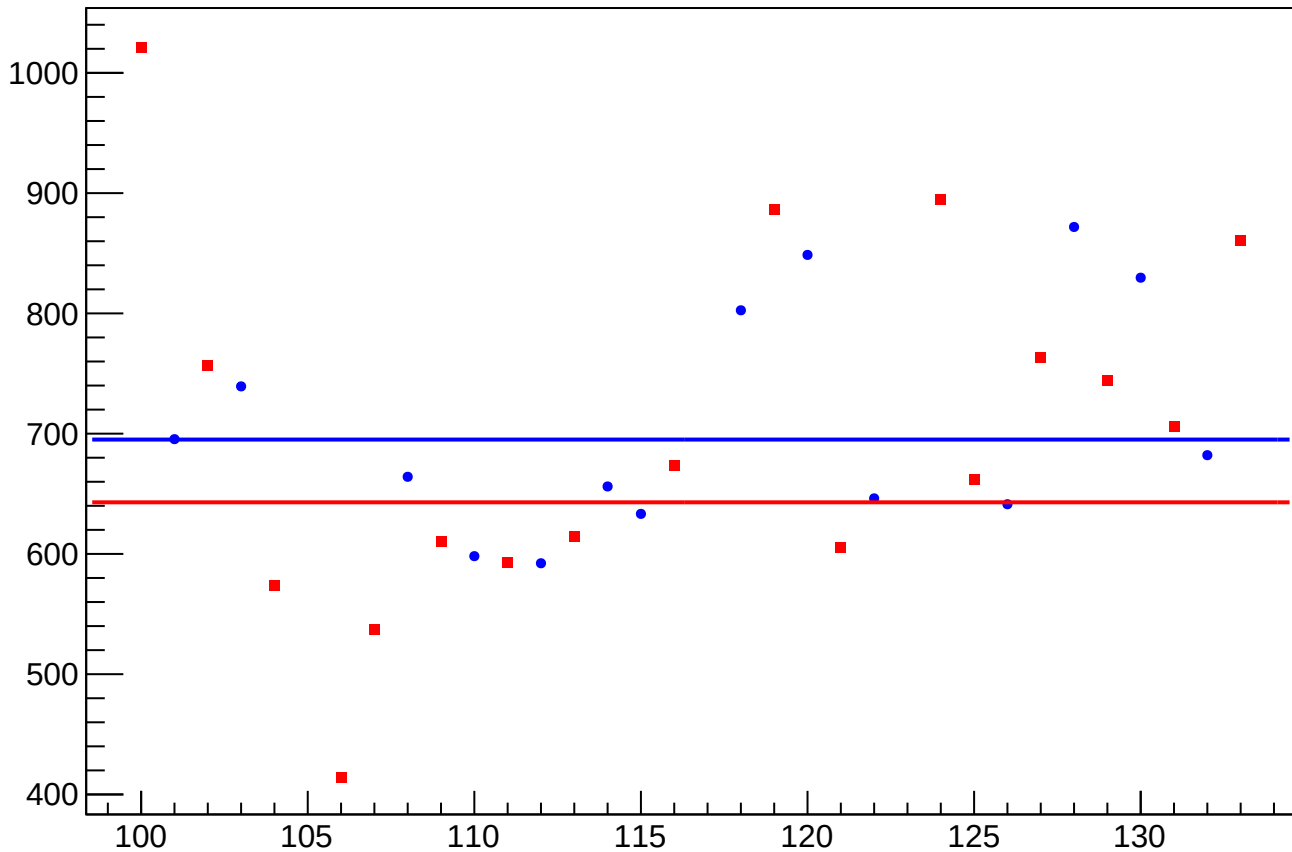
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -377.900 $\pm$ 190.682  $\chi^2$ /NDF: 31.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_reg\_correction\_rms vs Slug



Right In: 695.090 $\pm$ 0.204  $\chi^2$ /NDF: 176609.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 642.909 $\pm$ 0.179  $\chi^2$ /NDF: 489221.7/16

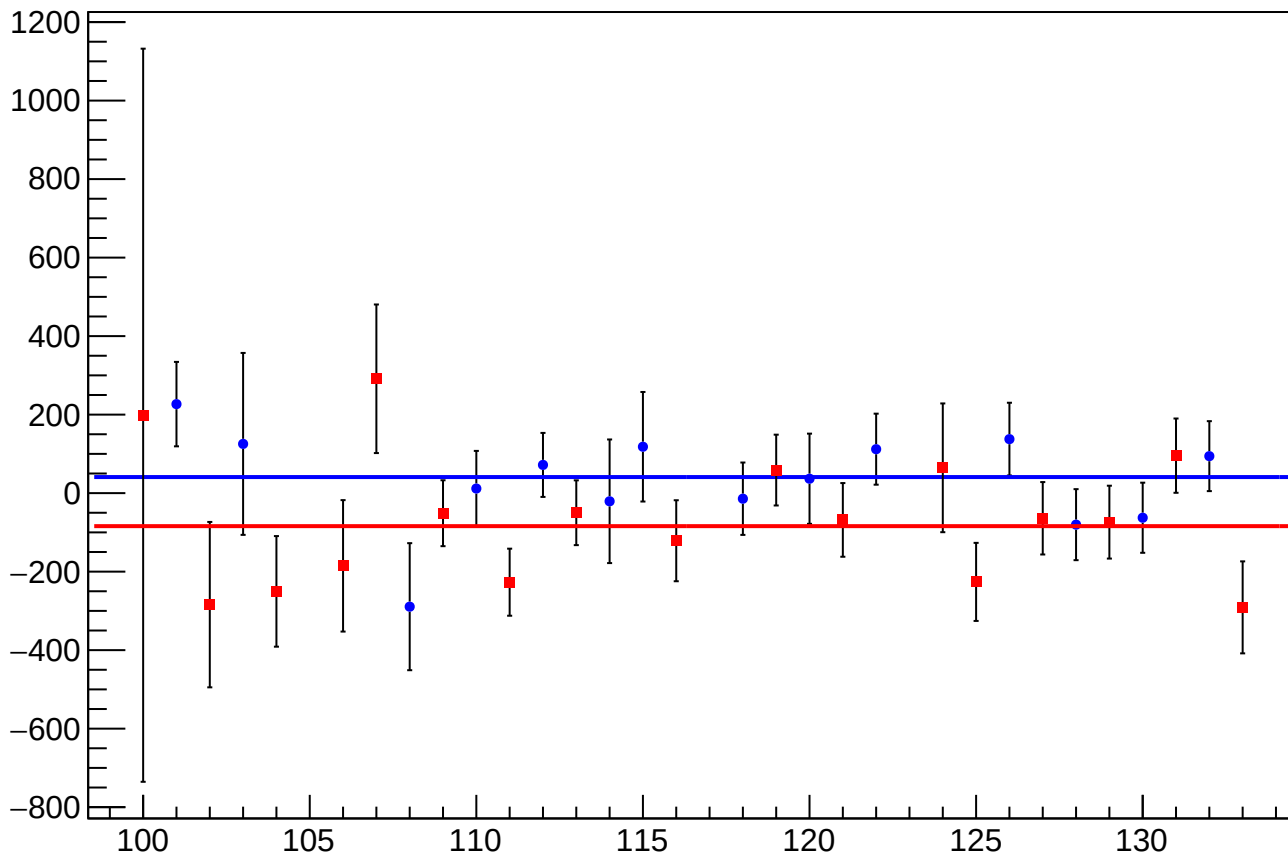
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 665.599 $\pm$ 0.135  $\chi^2$ /NDF: 702638.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 40.938 $\pm$ 27.738  $\chi^2$ /NDF: 13.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -84.115 $\pm$ 26.259  $\chi^2$ /NDF: 22.1/16

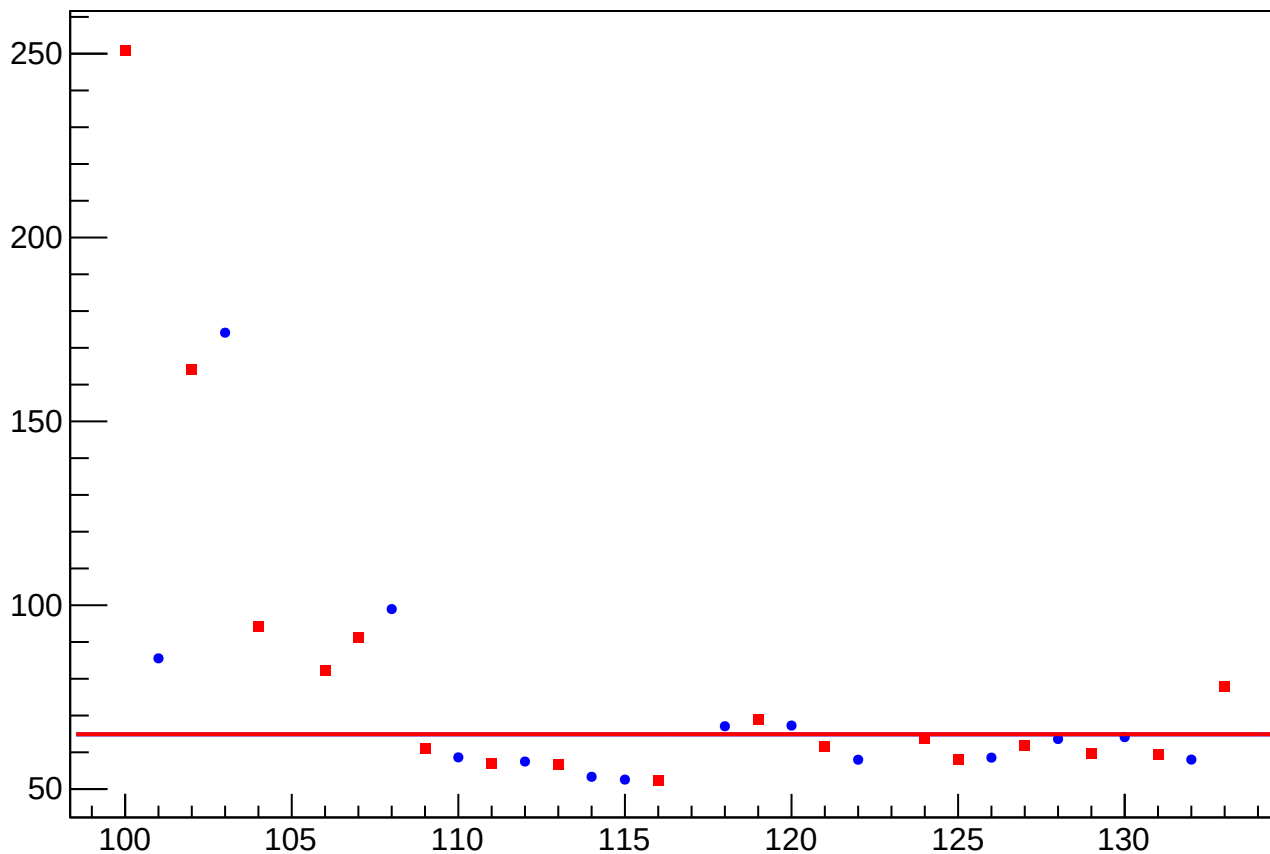
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -25.011 $\pm$ 19.070  $\chi^2$ /NDF: 46.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 64.867 $\pm$ 0.020  $\chi^2$ /NDF: 693581.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 64.922 $\pm$ 0.019  $\chi^2$ /NDF: 794671.6/16

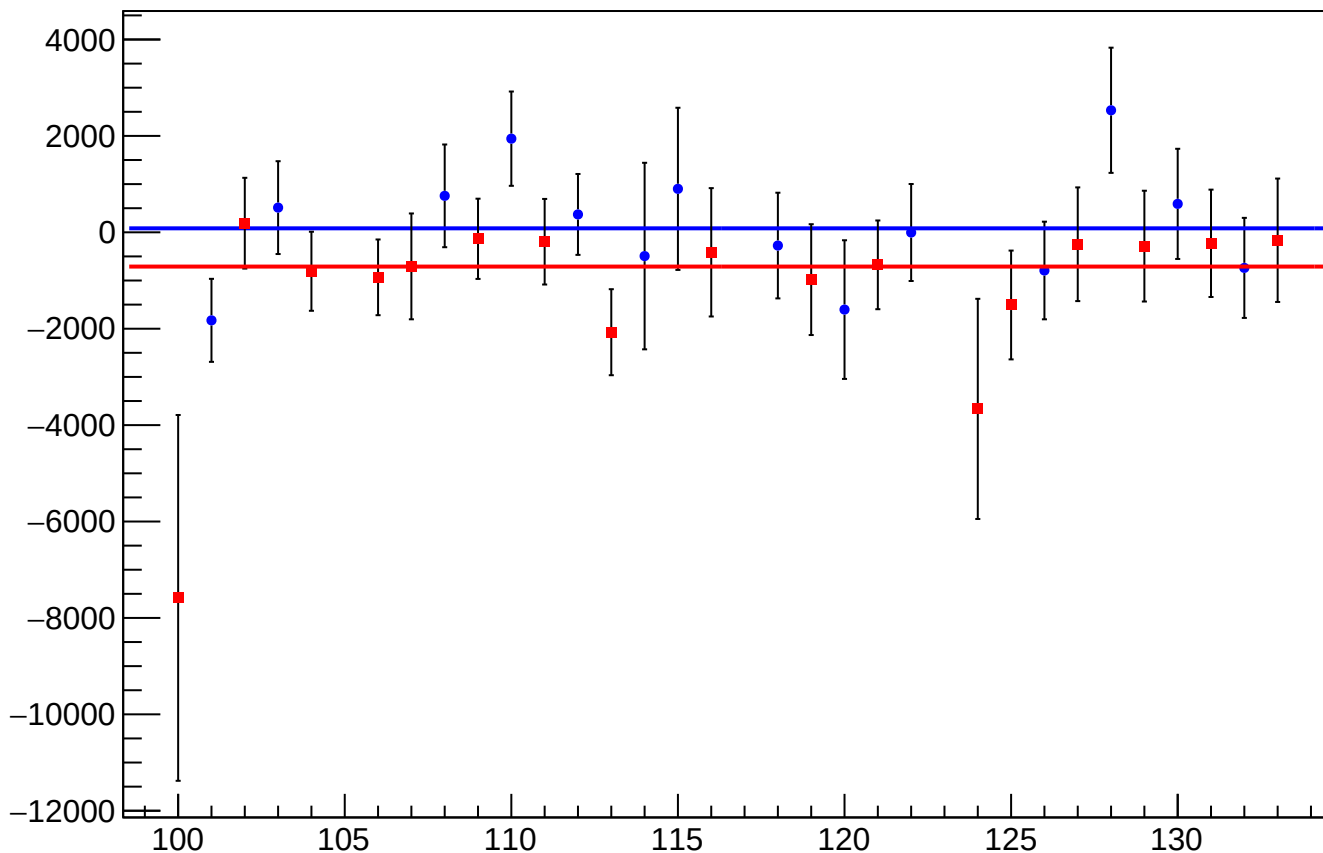
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 64.896 $\pm$ 0.013  $\chi^2$ /NDF: 1488257.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_cor\_correction\_mean vs Slug



Right In: 82.609 $\pm$ 289.170  $\chi^2$ /NDF: 16.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -710.787 $\pm$ 254.201  $\chi^2$ /NDF: 10.4/16

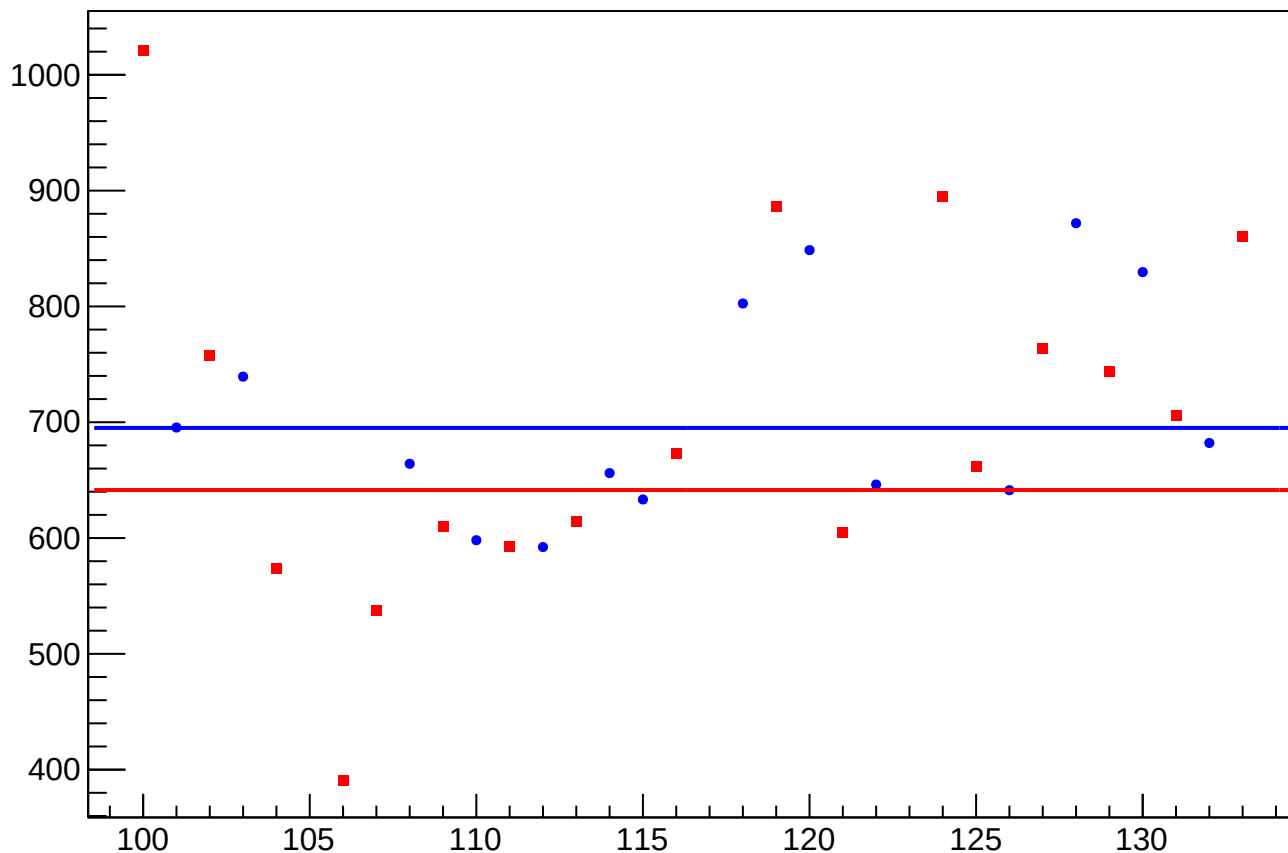
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -364.938 $\pm$ 190.920  $\chi^2$ /NDF: 30.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_cor\_correction\_rms vs Slug



Right In: 695.096+/-0.204  $\chi^2/\text{NDF}$ : 176624.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 641.465+/-0.180  $\chi^2/\text{NDF}$ : 519083.0/16

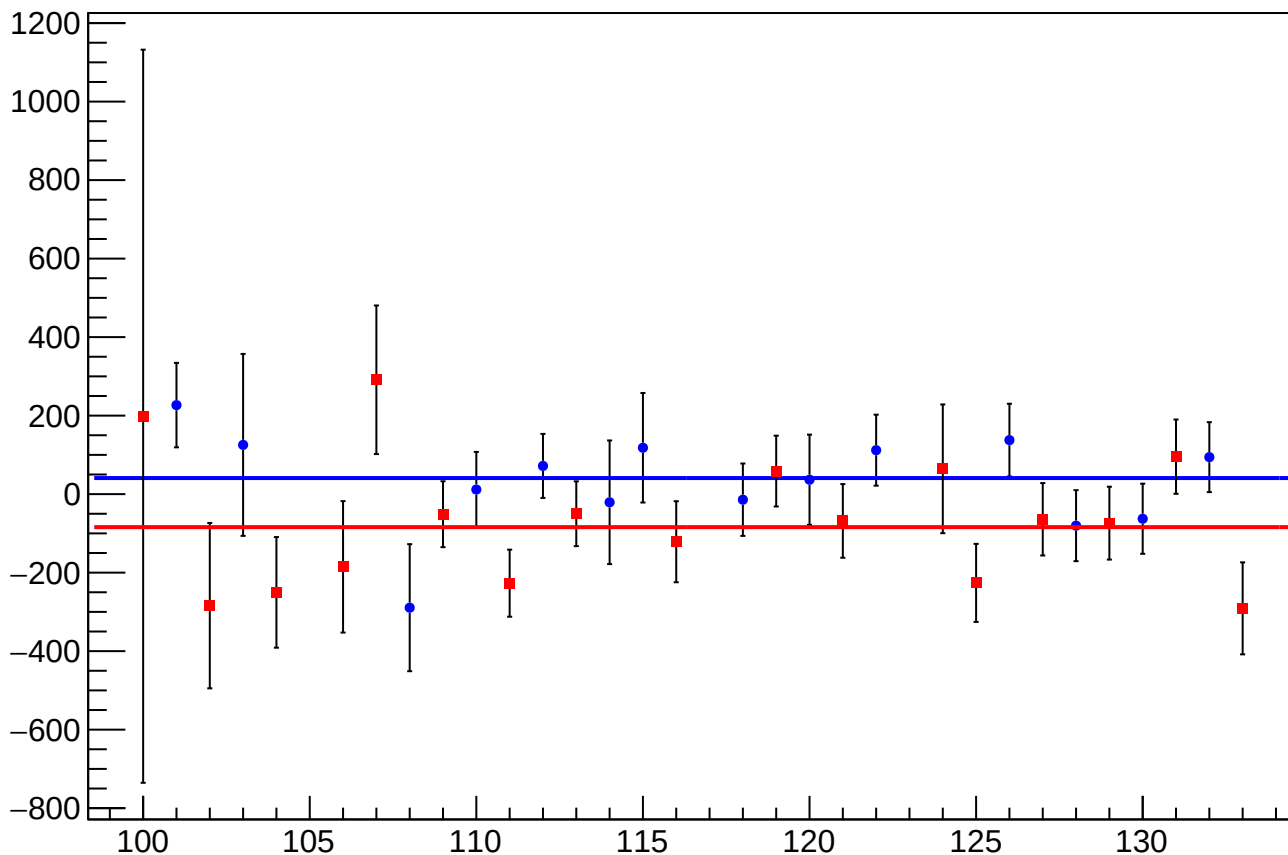
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 664.843+/-0.135  $\chi^2/\text{NDF}$ : 734512.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 40.938 $\pm$ 27.738  $\chi^2$ /NDF: 13.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -84.115 $\pm$ 26.259  $\chi^2$ /NDF: 22.1/16

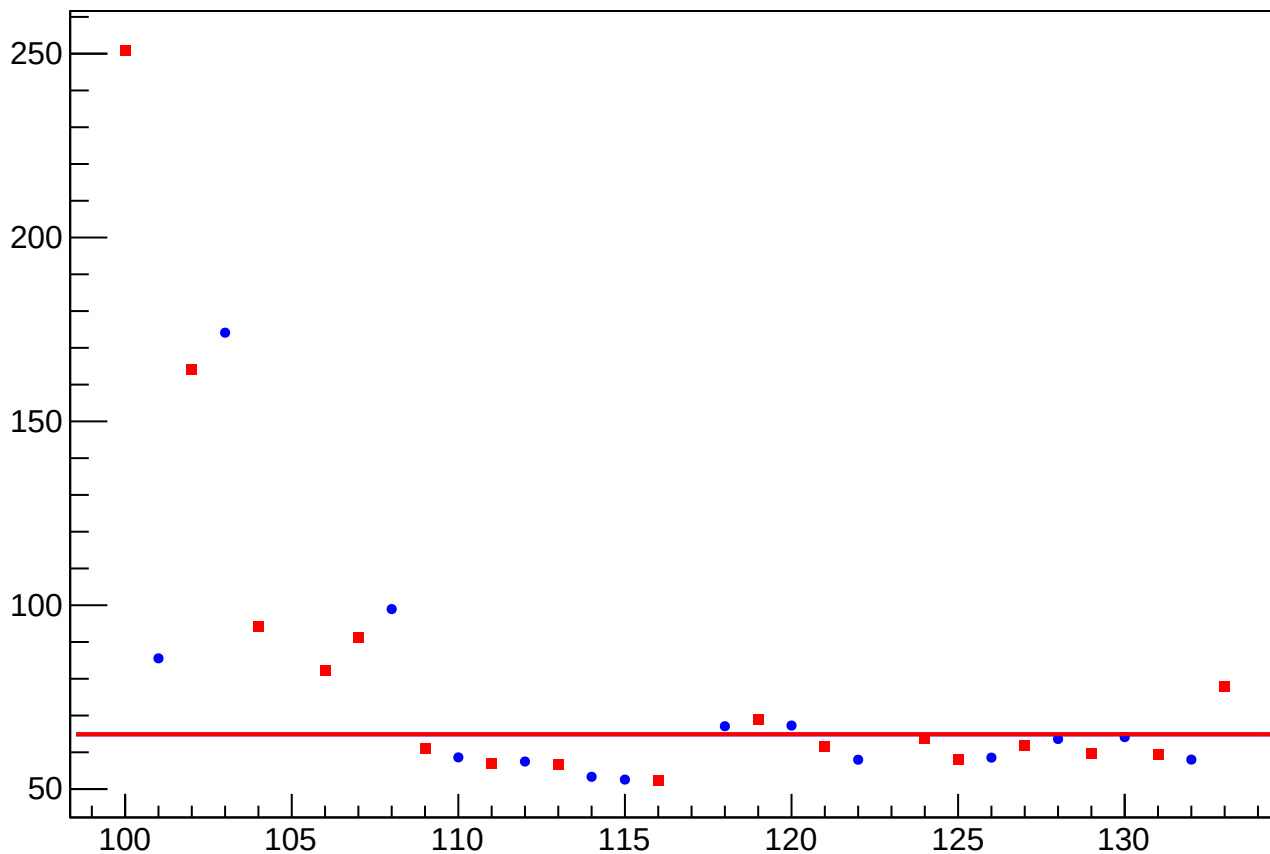
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -25.011 $\pm$ 19.070  $\chi^2$ /NDF: 46.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 64.867 $\pm$ 0.020  $\chi^2$ /NDF: 693581.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 64.922 $\pm$ 0.019  $\chi^2$ /NDF: 794671.6/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

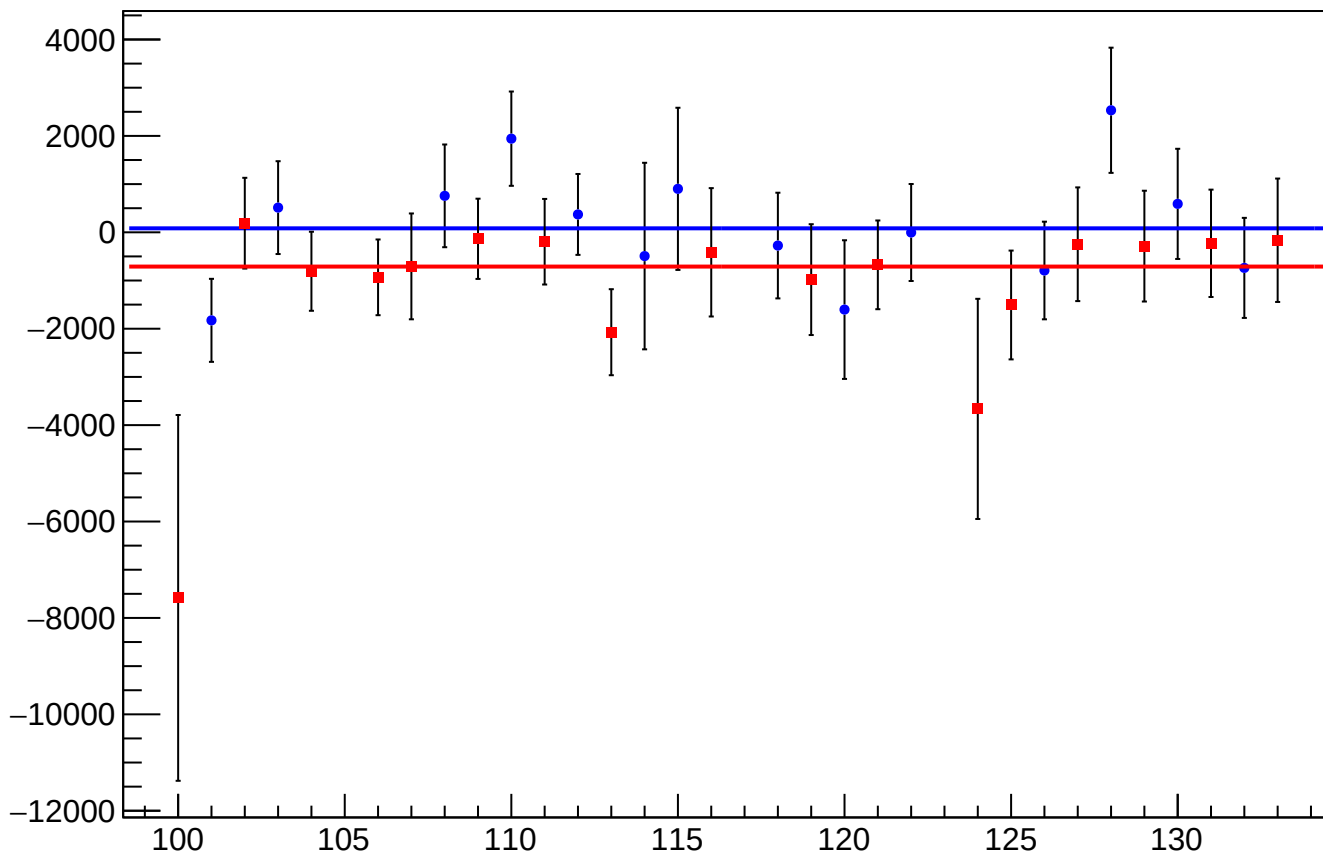
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 64.896 $\pm$ 0.013  $\chi^2$ /NDF: 1488257.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 82.609 $\pm$ 289.170  $\chi^2$ /NDF: 16.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -710.787 $\pm$ 254.201  $\chi^2$ /NDF: 10.4/16

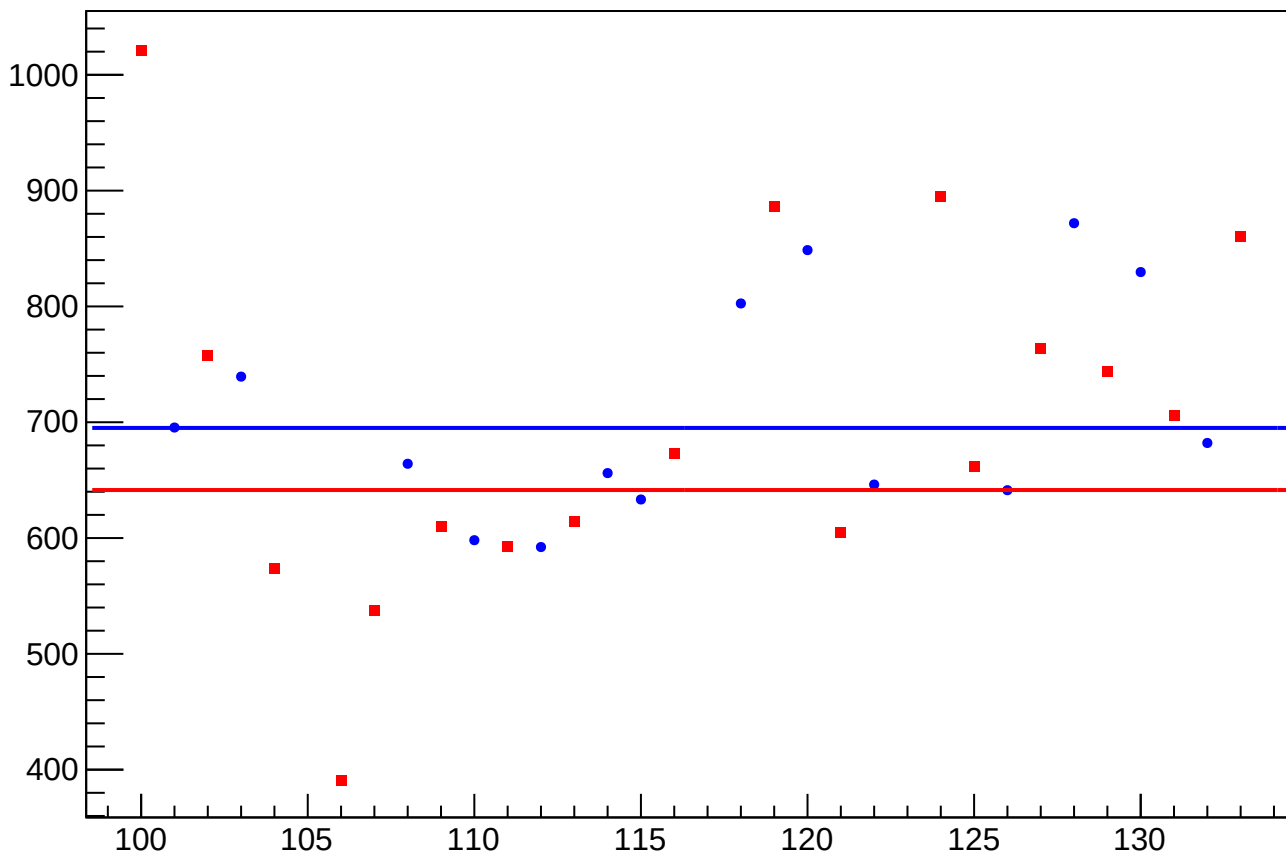
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -364.938 $\pm$ 190.920  $\chi^2$ /NDF: 30.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 695.096+/-0.204  $\chi^2/\text{NDF}$ : 176624.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 641.465+/-0.180  $\chi^2/\text{NDF}$ : 519083.0/16

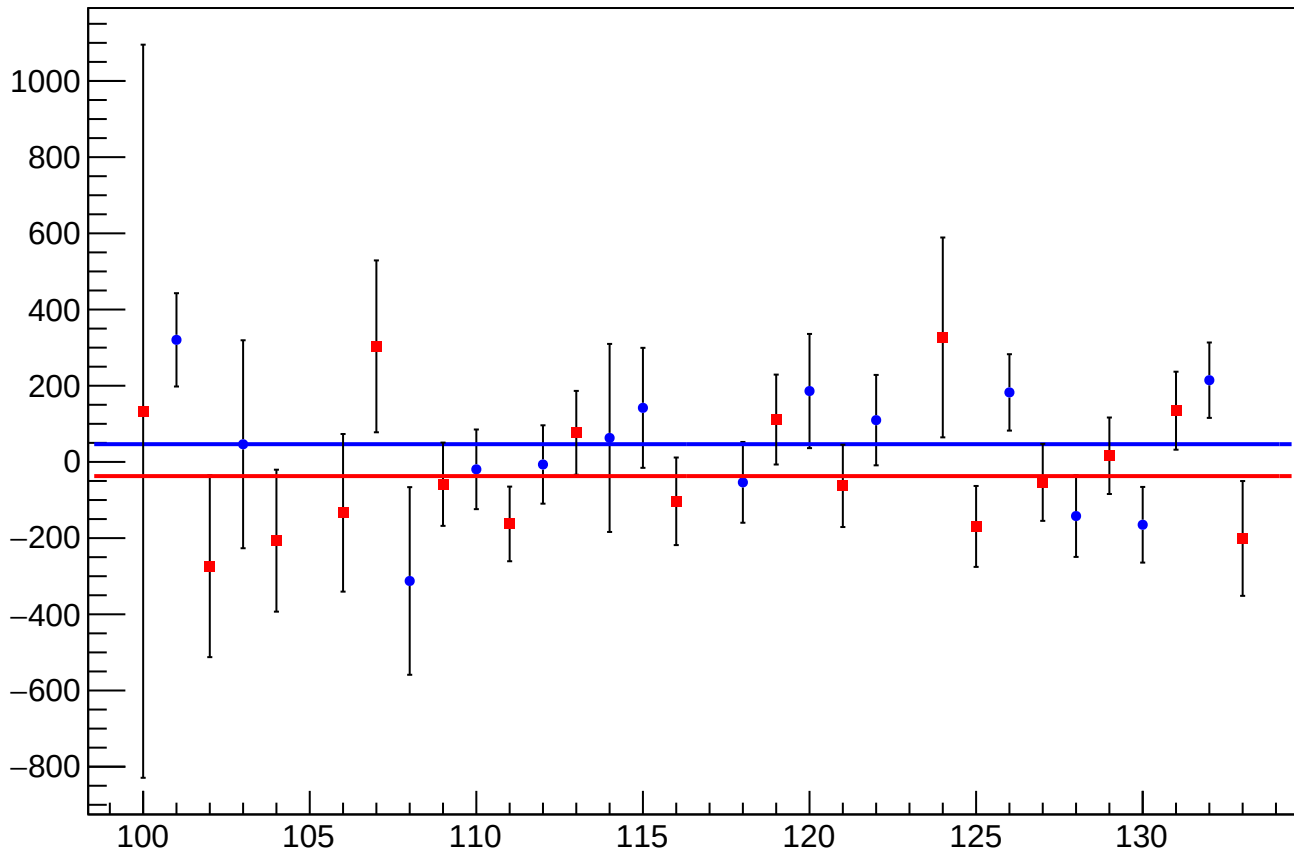
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 664.843+/-0.135  $\chi^2/\text{NDF}$ : 734512.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 46.583+/-32.726  $\chi^2/\text{NDF}$ : 22.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -37.203+/-31.100  $\chi^2/\text{NDF}$ : 16.8/16

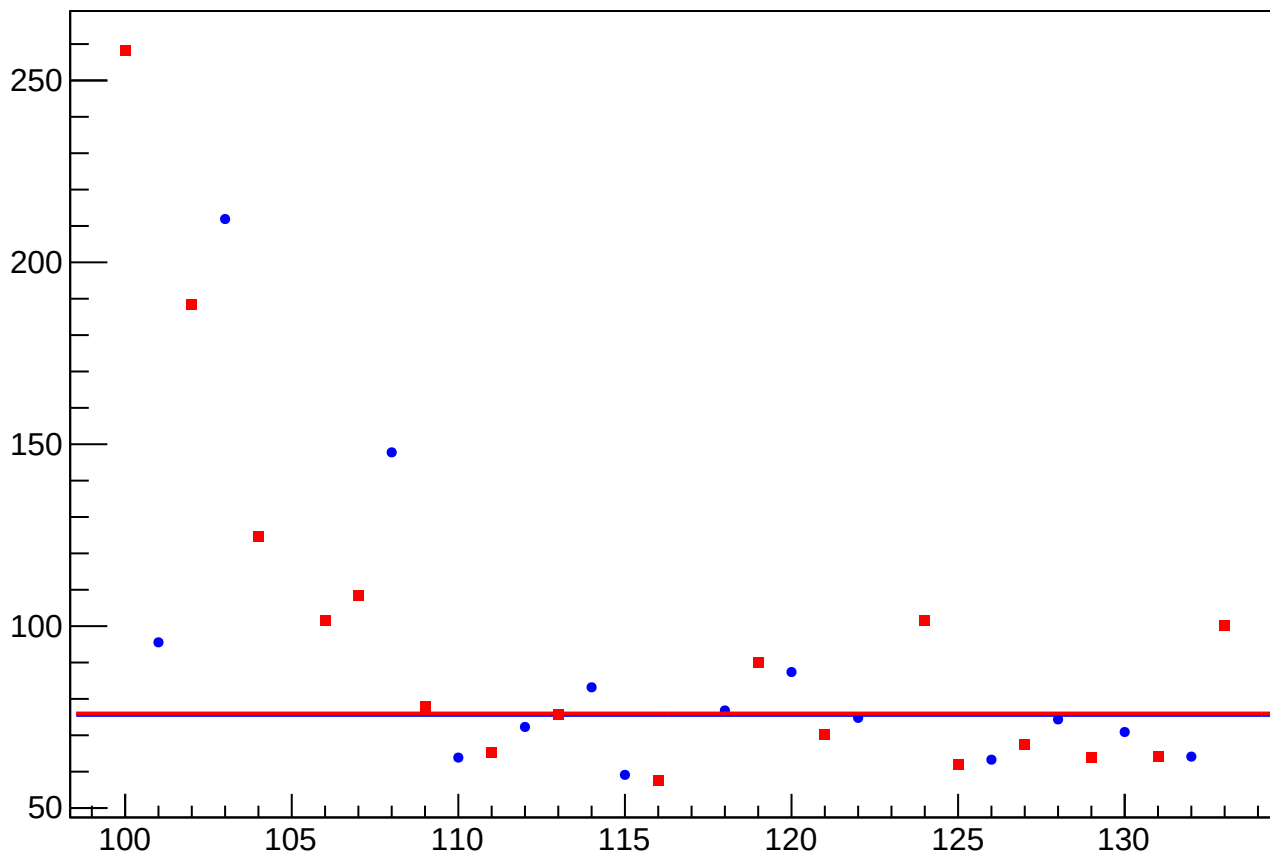
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.557+/-22.544  $\chi^2/\text{NDF}$ : 42.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 75.621+/-0.023  $\chi^2/\text{NDF}$ : 849120.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 75.974+/-0.022  $\chi^2/\text{NDF}$ : 1010247.8/16

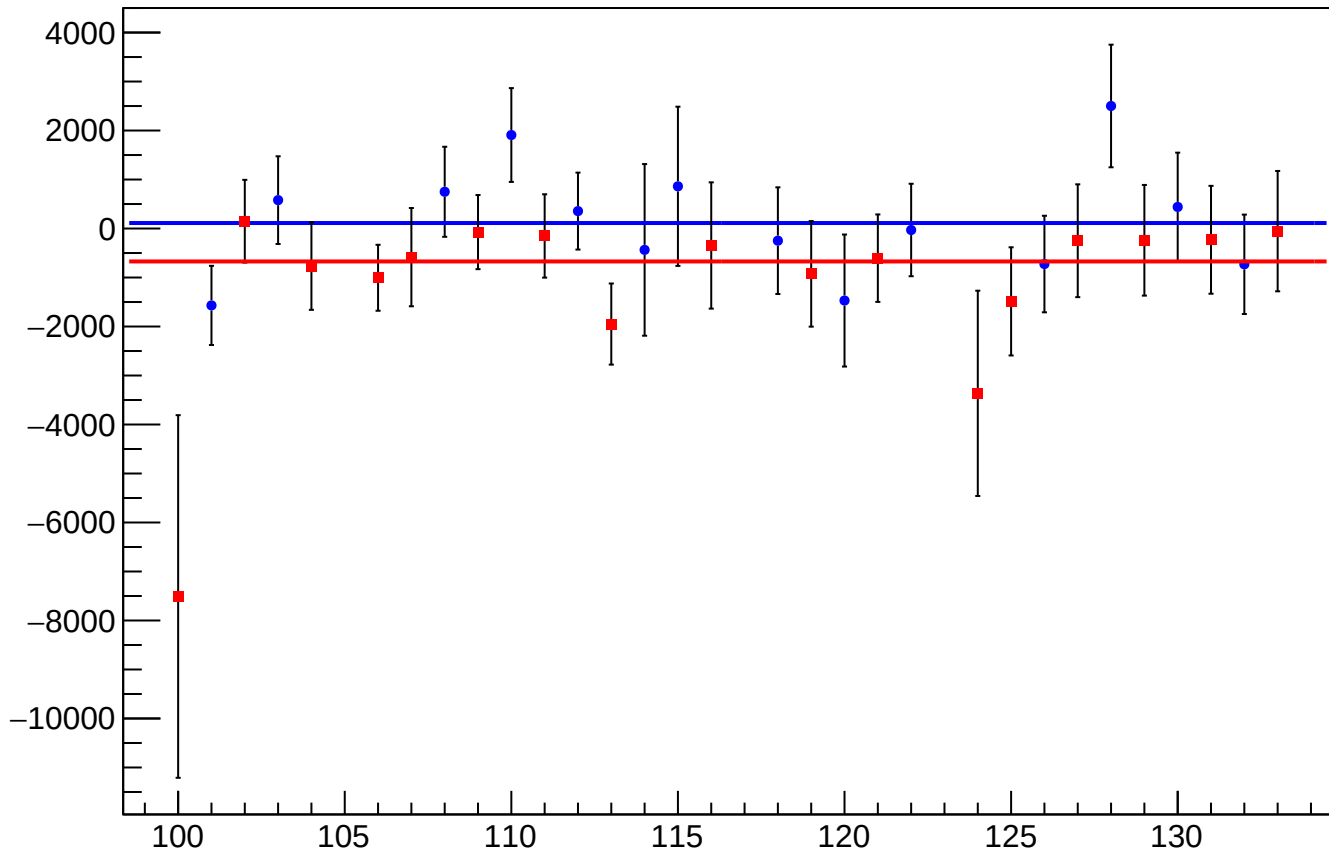
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.807+/-0.016  $\chi^2/\text{NDF}$ : 1859490.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_dit\_correction\_mean vs Slug



Right In: 112.292 $\pm$ 273.614  $\chi^2$ /NDF: 15.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -671.896 $\pm$ 240.324  $\chi^2$ /NDF: 11.0/16

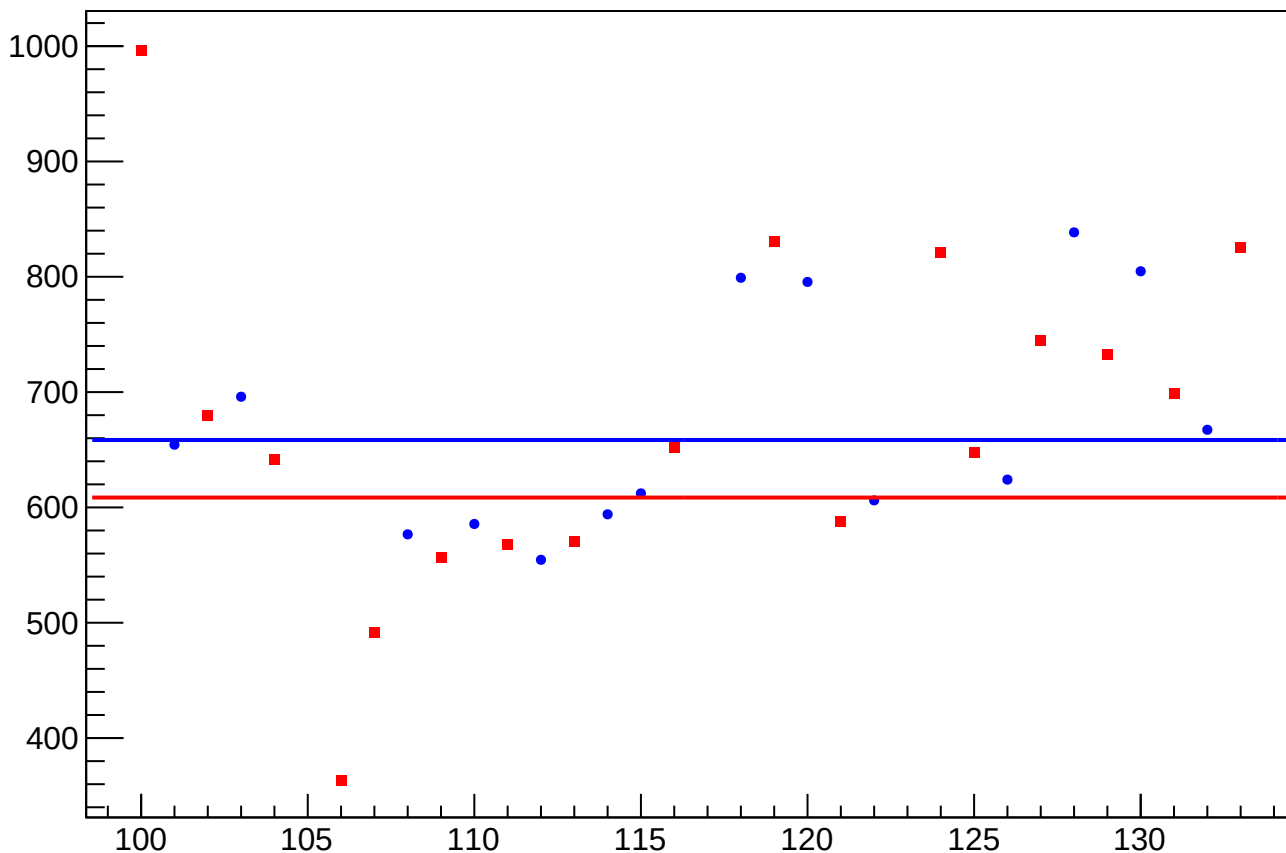
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -330.386 $\pm$ 180.564  $\chi^2$ /NDF: 31.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_dit\_correction\_rms vs Slug



Right In: 658.474+/-0.193  $\chi^2/\text{NDF}$ : 209497.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 608.555+/-0.170  $\chi^2/\text{NDF}$ : 589043.0/16

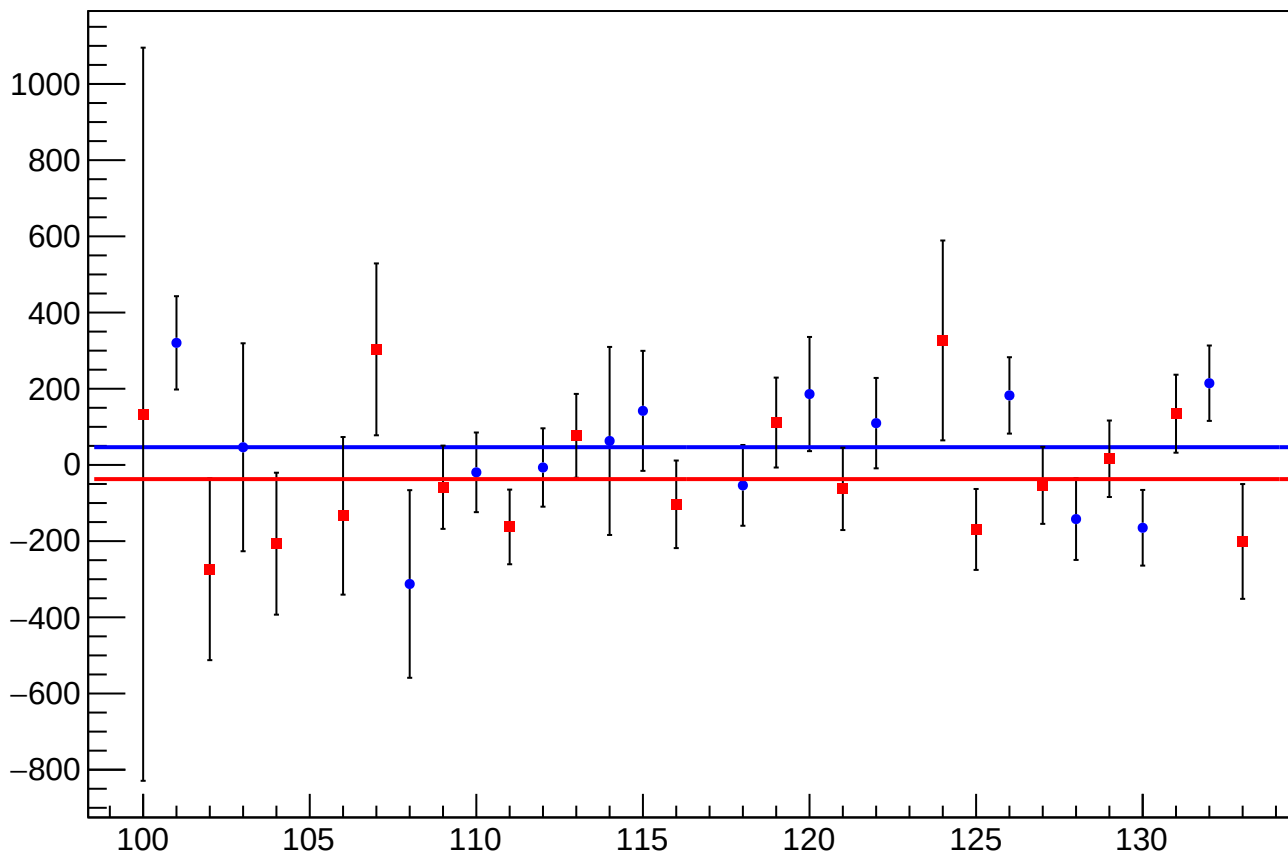
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 630.295+/-0.128  $\chi^2/\text{NDF}$ : 836120.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 46.582 $\pm$ 32.726  $\chi^2$ /NDF: 22.6/13

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -37.201 $\pm$ -31.100  $\chi^2$ /NDF: 16.8/16

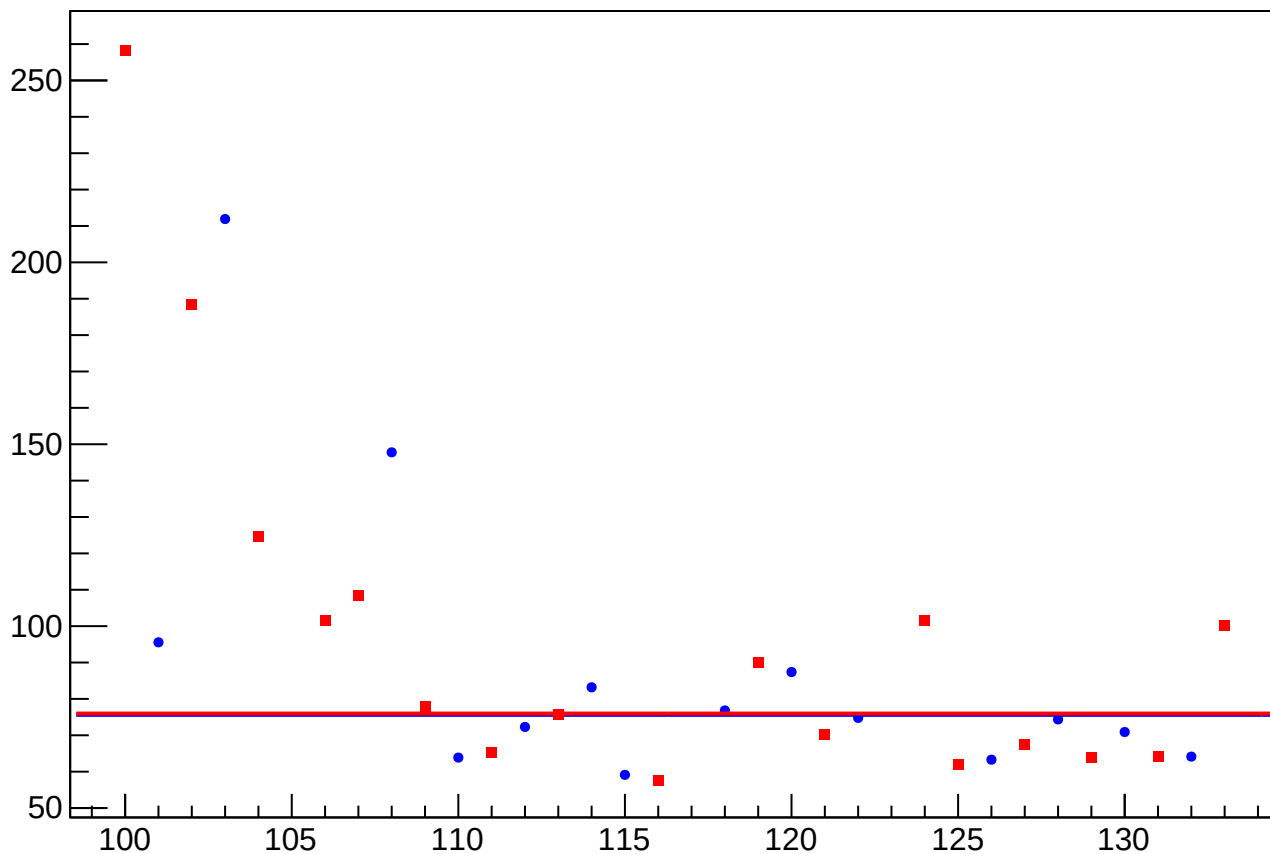
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 2.558 $\pm$ -22.544  $\chi^2$ /NDF: 42.8/30

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 75.621+/-0.023  $\chi^2/\text{NDF}$ : 849118.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 75.974+/-0.022  $\chi^2/\text{NDF}$ : 1010236.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

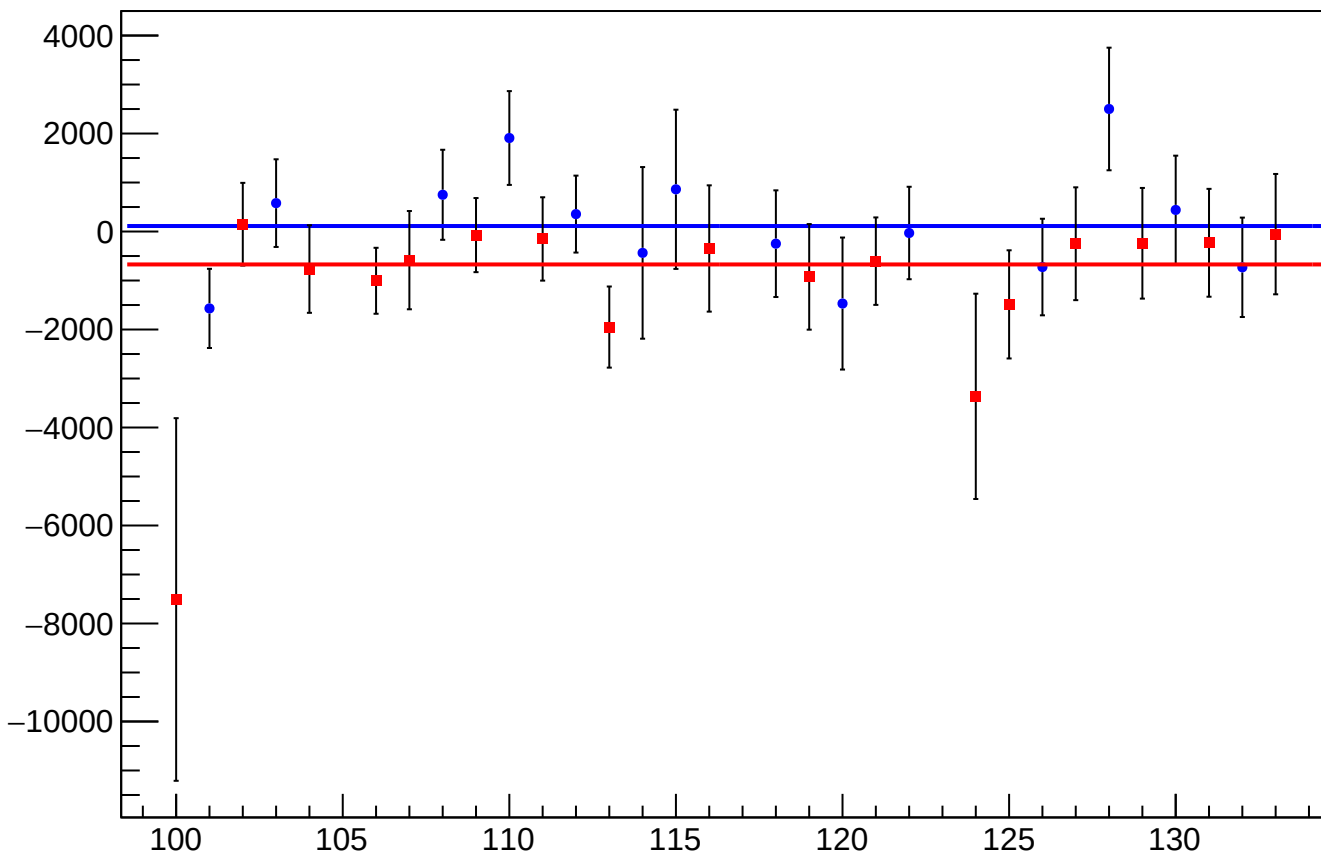
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 75.807+/-0.016  $\chi^2/\text{NDF}$ : 1859476.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 112.292 $\pm$ 273.614  $\chi^2/\text{NDF}$ : 15.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -671.895 $\pm$ 240.324  $\chi^2/\text{NDF}$ : 11.0/16

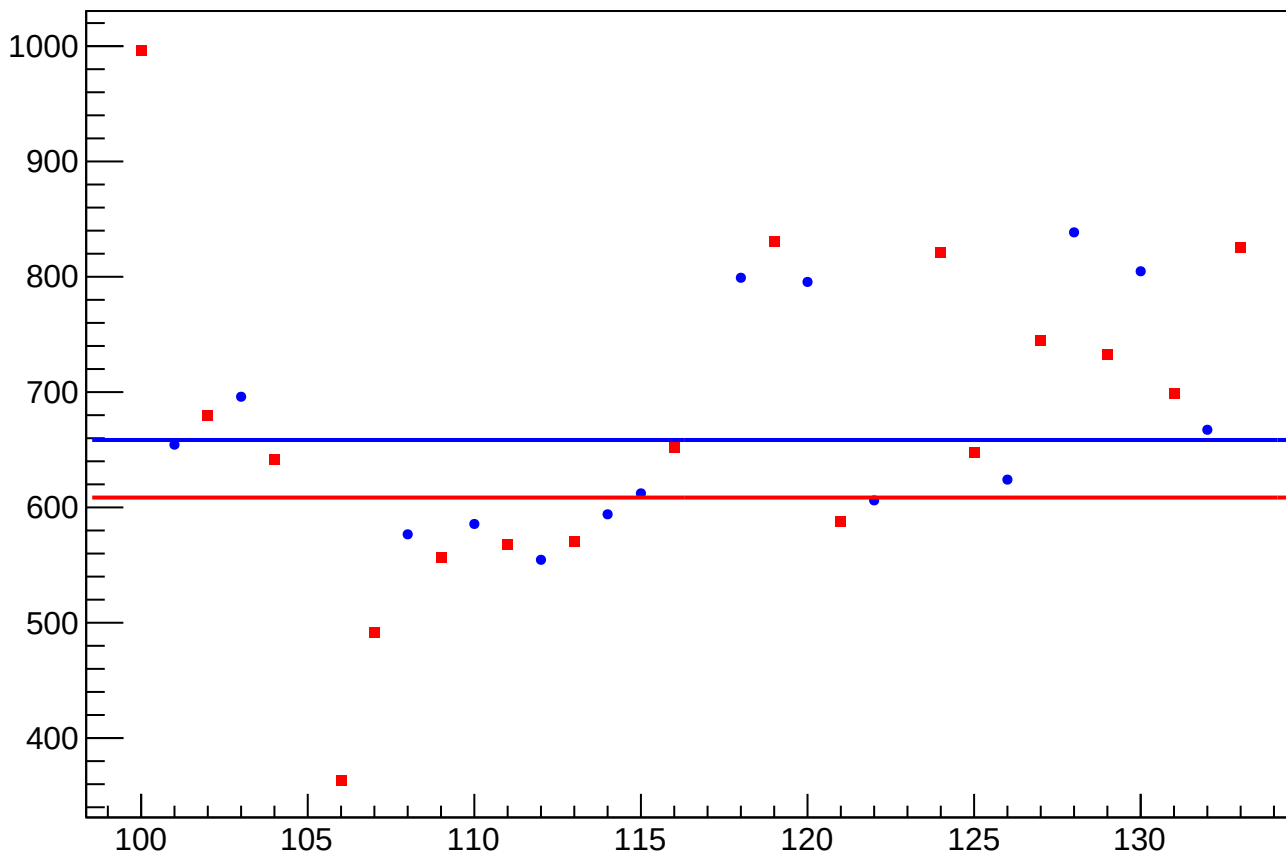
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -330.386 $\pm$ 180.564  $\chi^2/\text{NDF}$ : 31.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 658.474 $\pm$ 0.193  $\chi^2$ /NDF: 209500.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 608.554 $\pm$ 0.170  $\chi^2$ /NDF: 589044.5/16

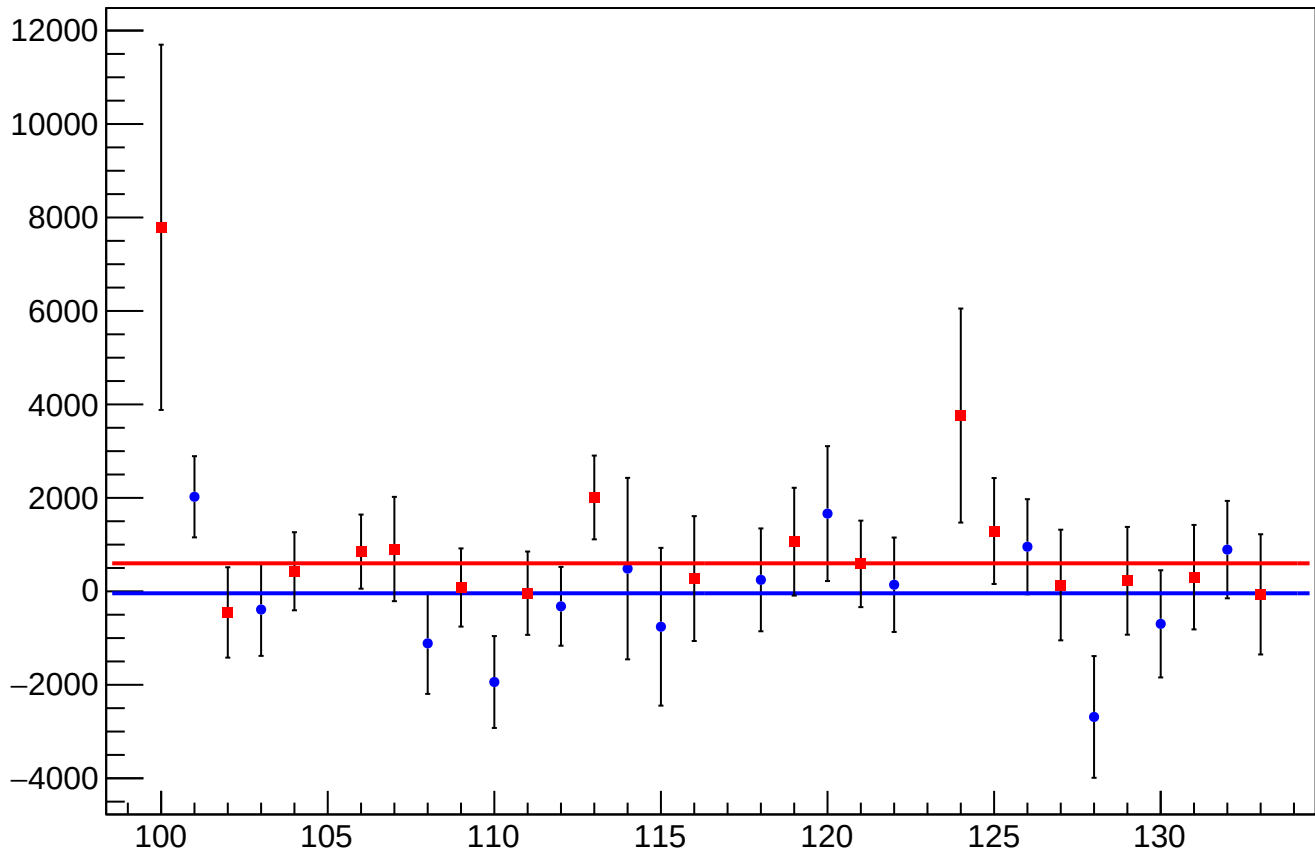
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 630.294 $\pm$ 0.128  $\chi^2$ /NDF: 836126.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_mean vs Slug



Right In:  $-41.536 \pm 291.380$   $\chi^2/\text{NDF}$ : 18.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $599.698 \pm 256.409$   $\chi^2/\text{NDF}$ : 11.2/16

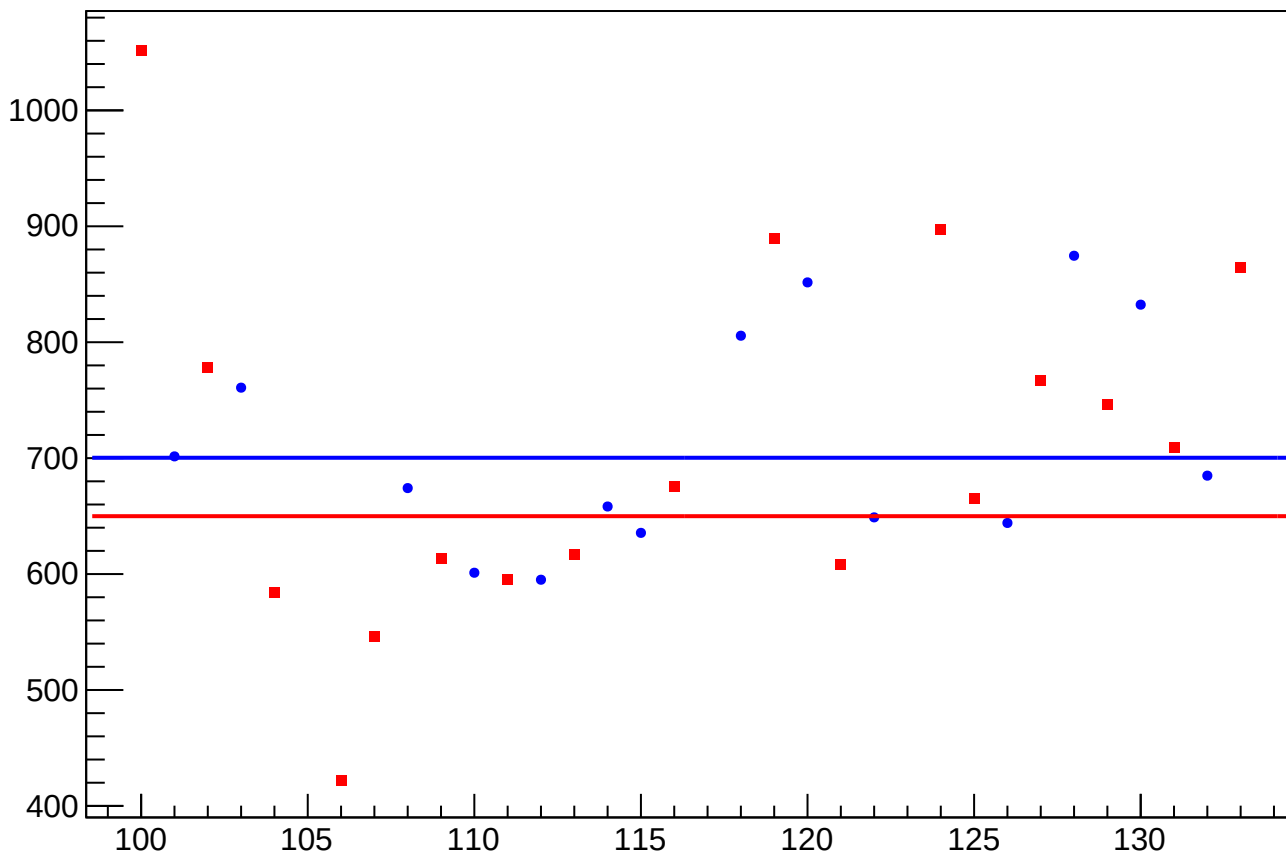
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $319.852 \pm 192.491$   $\chi^2/\text{NDF}$ : 32.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_rms vs Slug



Right In: 700.332 $\pm$ 0.206  $\chi^2$ /NDF: 178349.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 649.933 $\pm$ 0.181  $\chi^2$ /NDF: 473842.1/16

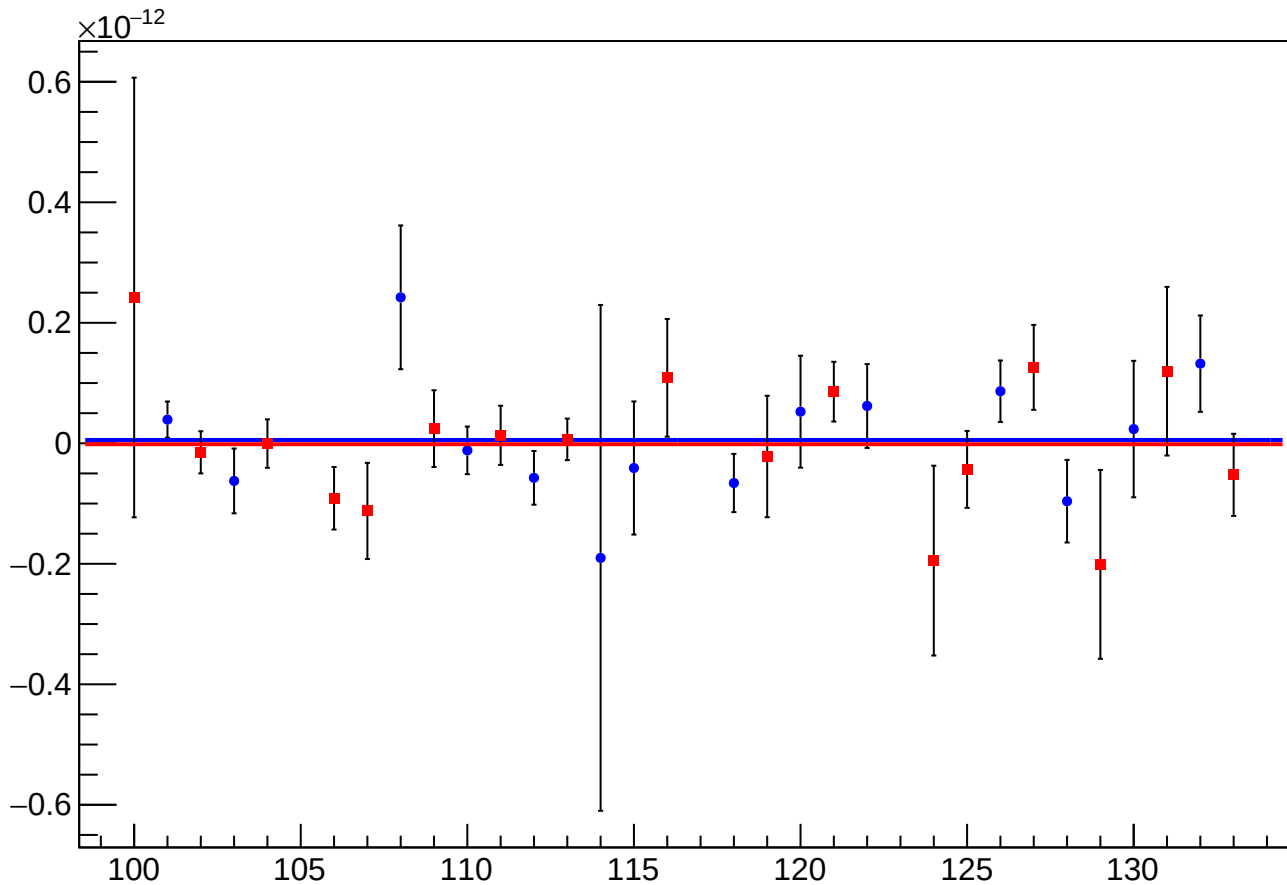
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 671.928 $\pm$ 0.136  $\chi^2$ /NDF: 685913.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.4/16

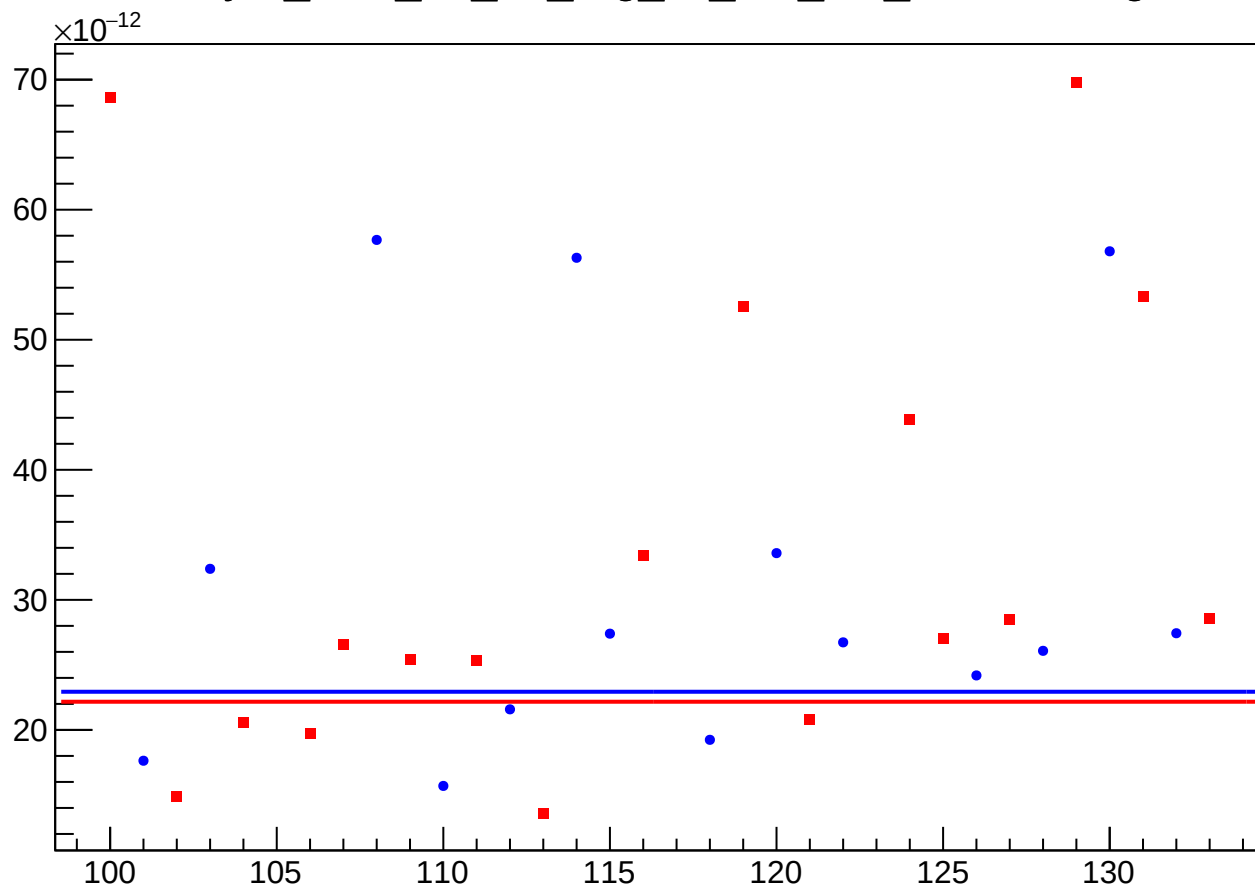
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 613227.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 847548.1/16

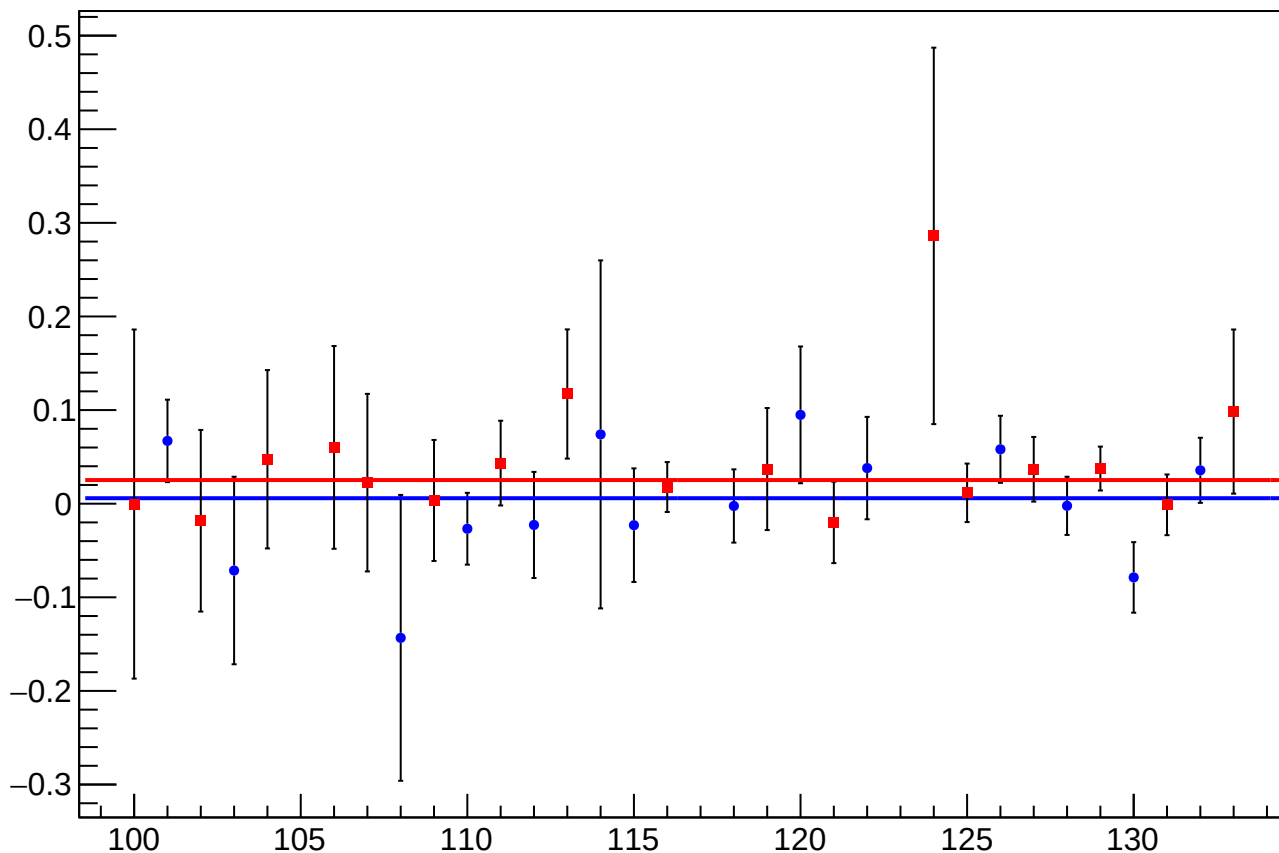
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1463479.8/30

- 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: 0.006 $\pm$ 0.012  $\chi^2$ /NDF: 14.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.025 $\pm$ 0.011  $\chi^2$ /NDF: 7.2/16

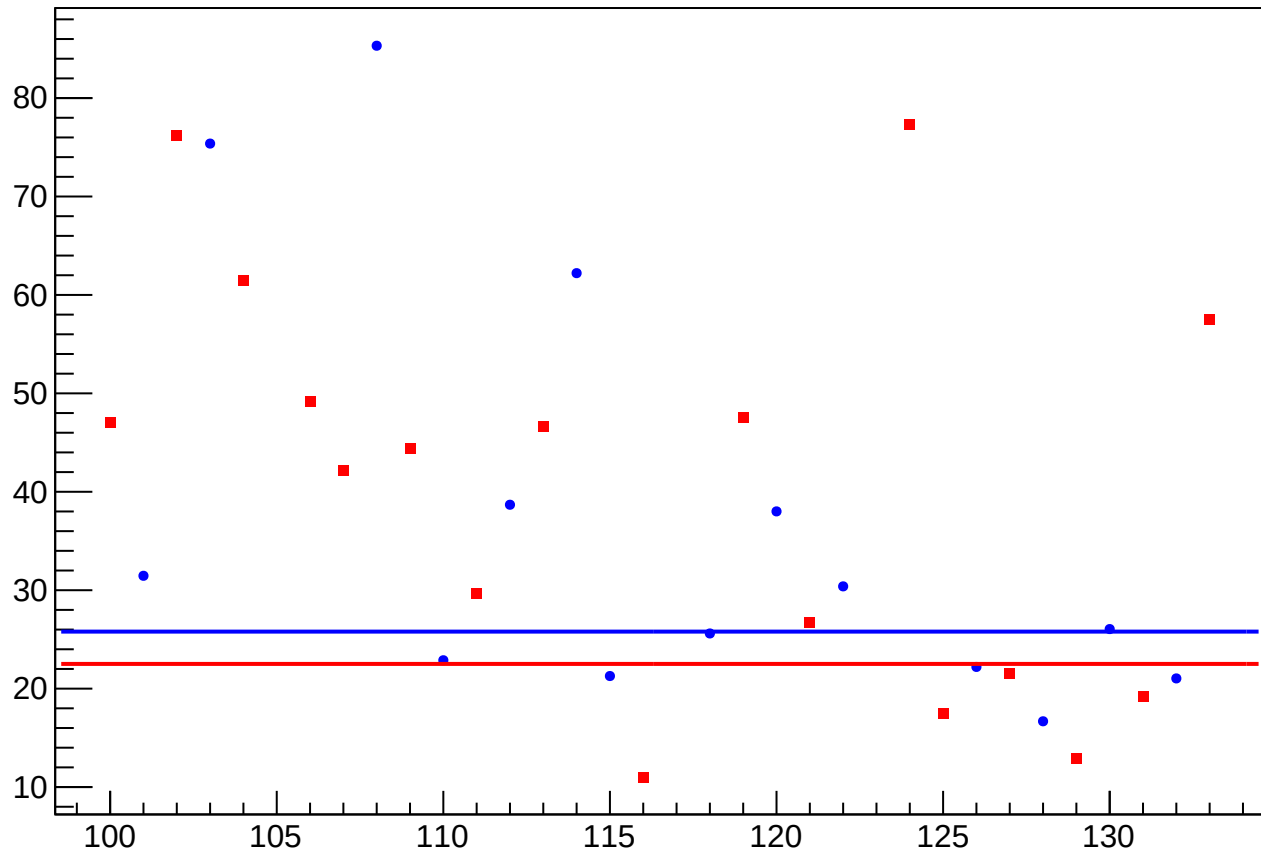
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.017 $\pm$ 0.008  $\chi^2$ /NDF: 23.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 25.794+/-0.009  $\chi^2/\text{NDF}$ : 1329846.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.511+/-0.008  $\chi^2/\text{NDF}$ : 3282202.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

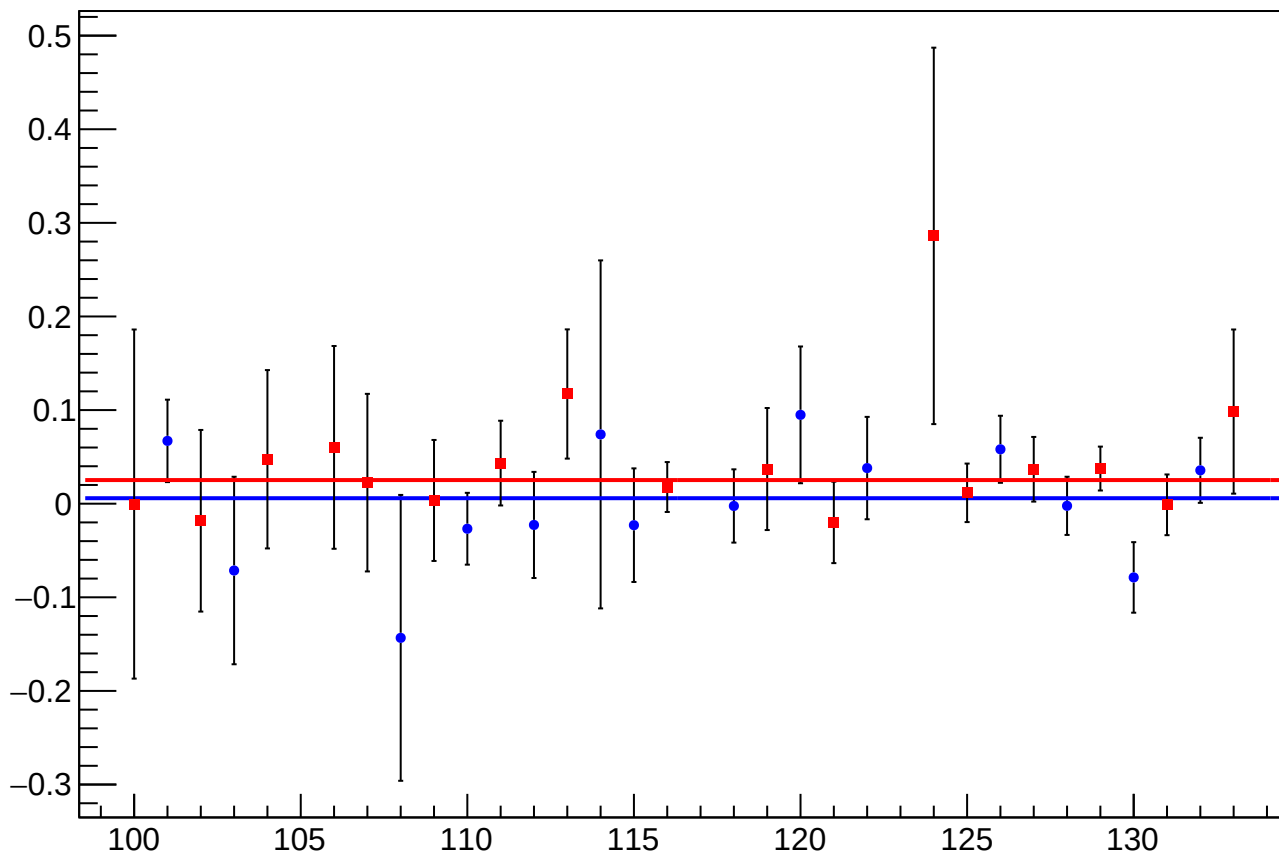
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.946+/-0.006  $\chi^2/\text{NDF}$ : 4690595.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.006 $\pm$ 0.012  $\chi^2$ /NDF: 14.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.025 $\pm$ 0.011  $\chi^2$ /NDF: 7.2/16

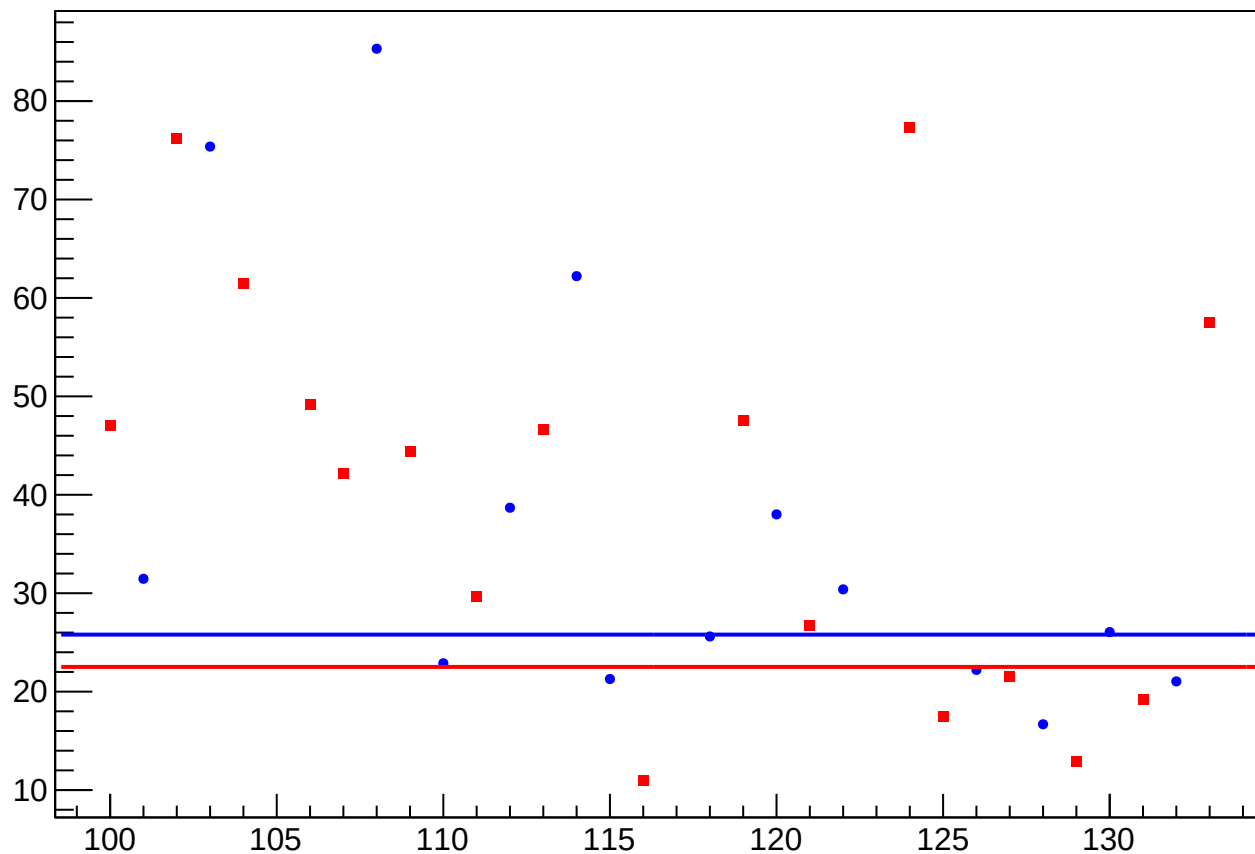
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.017 $\pm$ 0.008  $\chi^2$ /NDF: 23.3/30

- 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: 25.794+/-0.009  $\chi^2/\text{NDF}$ : 1329846.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.511+/-0.008  $\chi^2/\text{NDF}$ : 3282202.4/16

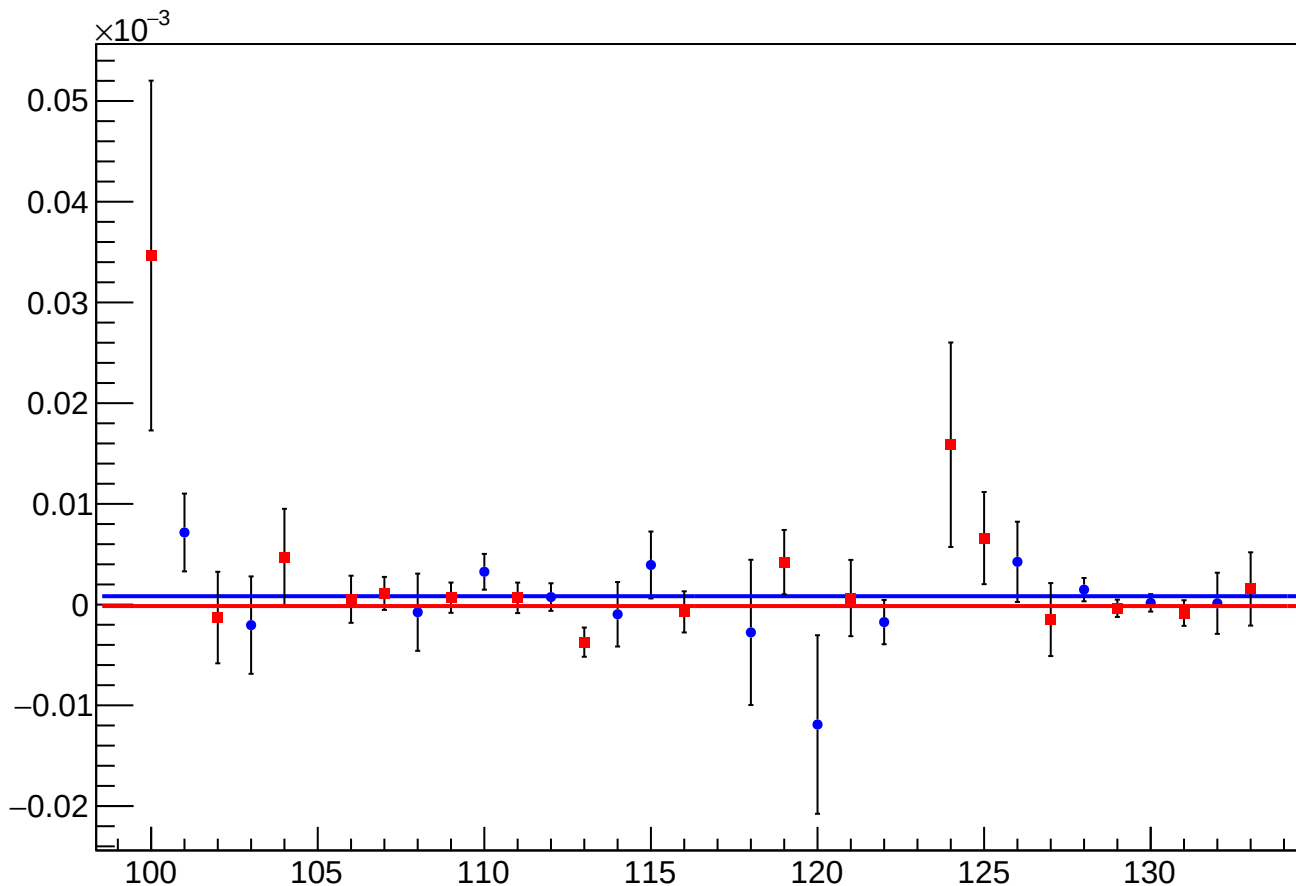
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.946+/-0.006  $\chi^2/\text{NDF}$ : 4690595.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 11.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.8/16

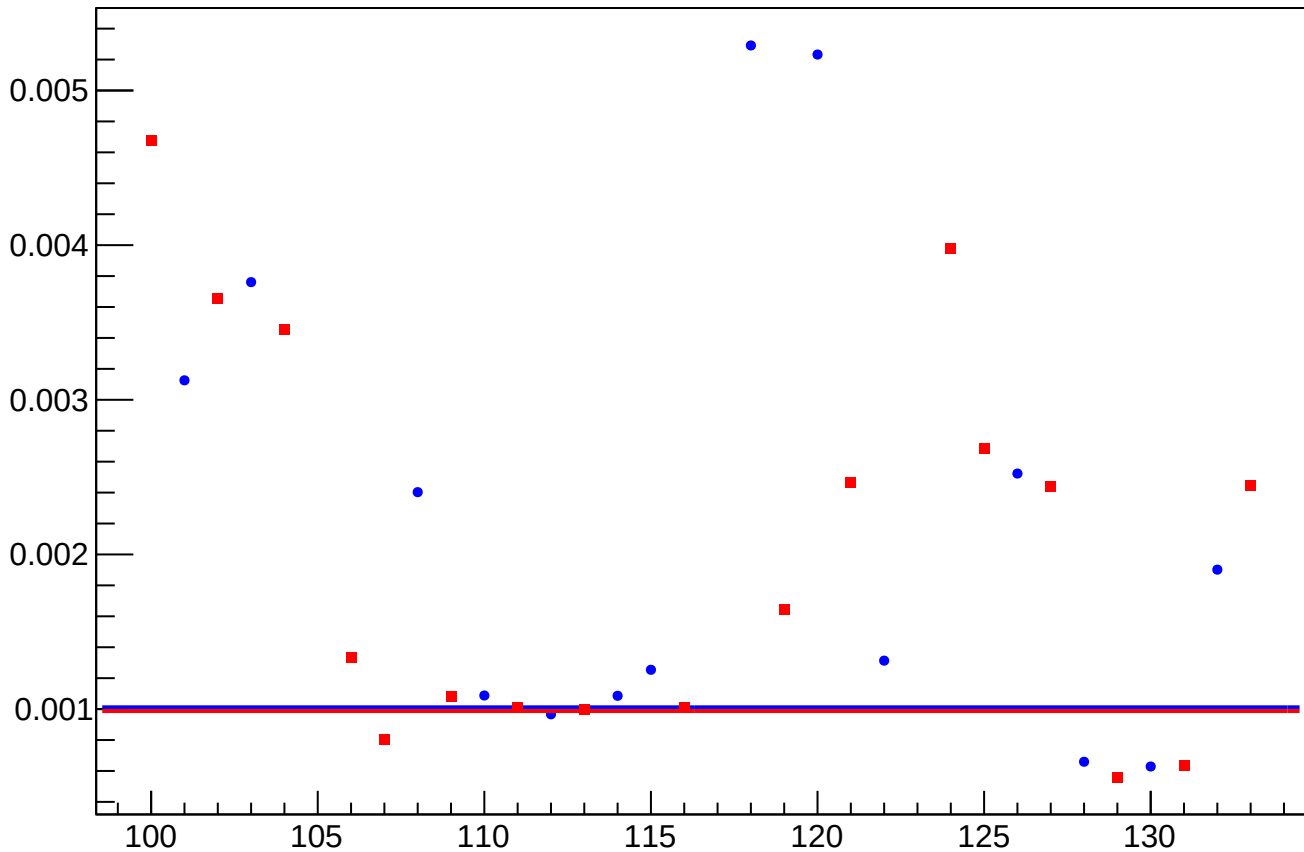
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 33.4/30

- 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  $\chi^2/\text{NDF}$ : 3760406.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3523310.8/16

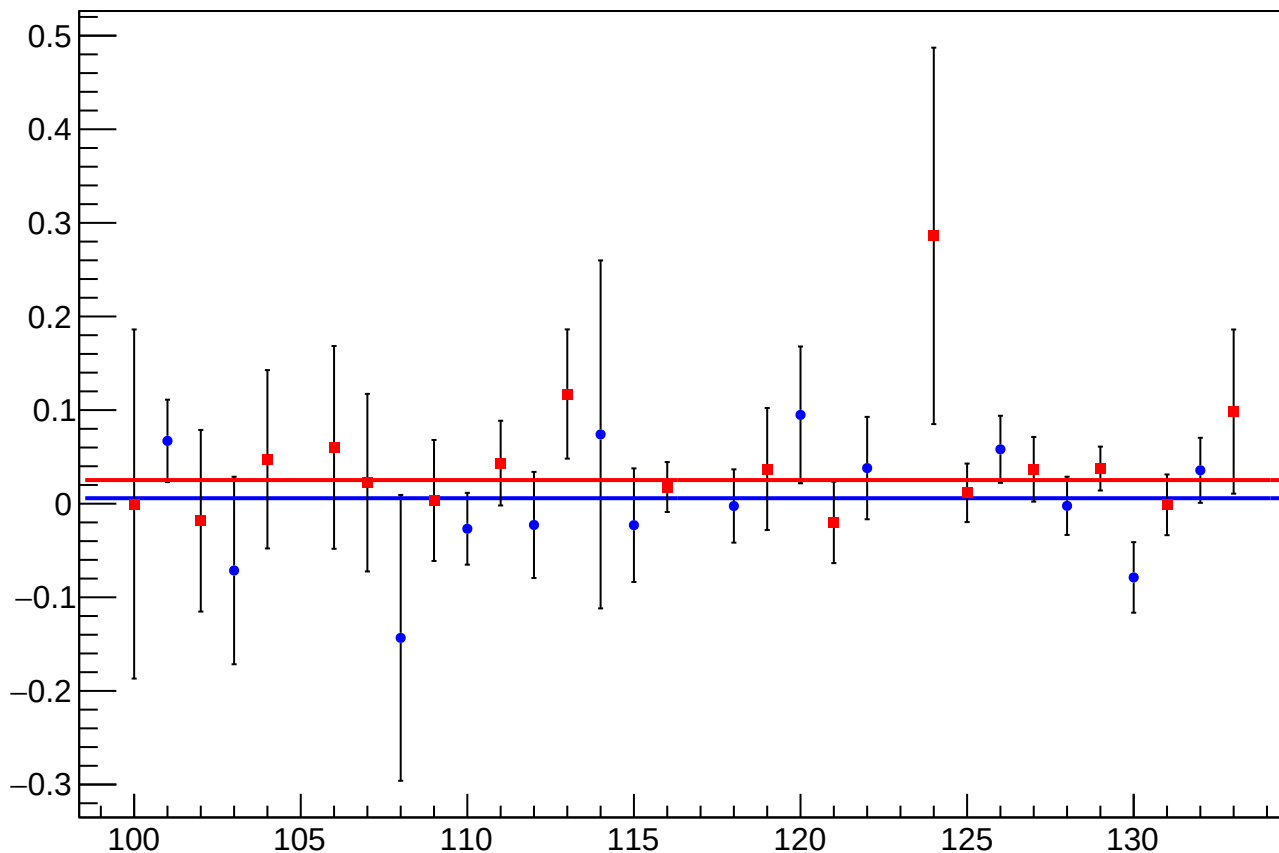
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 7286050.4/30

- 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: 0.006 $\pm$ 0.012  $\chi^2$ /NDF: 14.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.025 $\pm$ 0.011  $\chi^2$ /NDF: 7.2/16

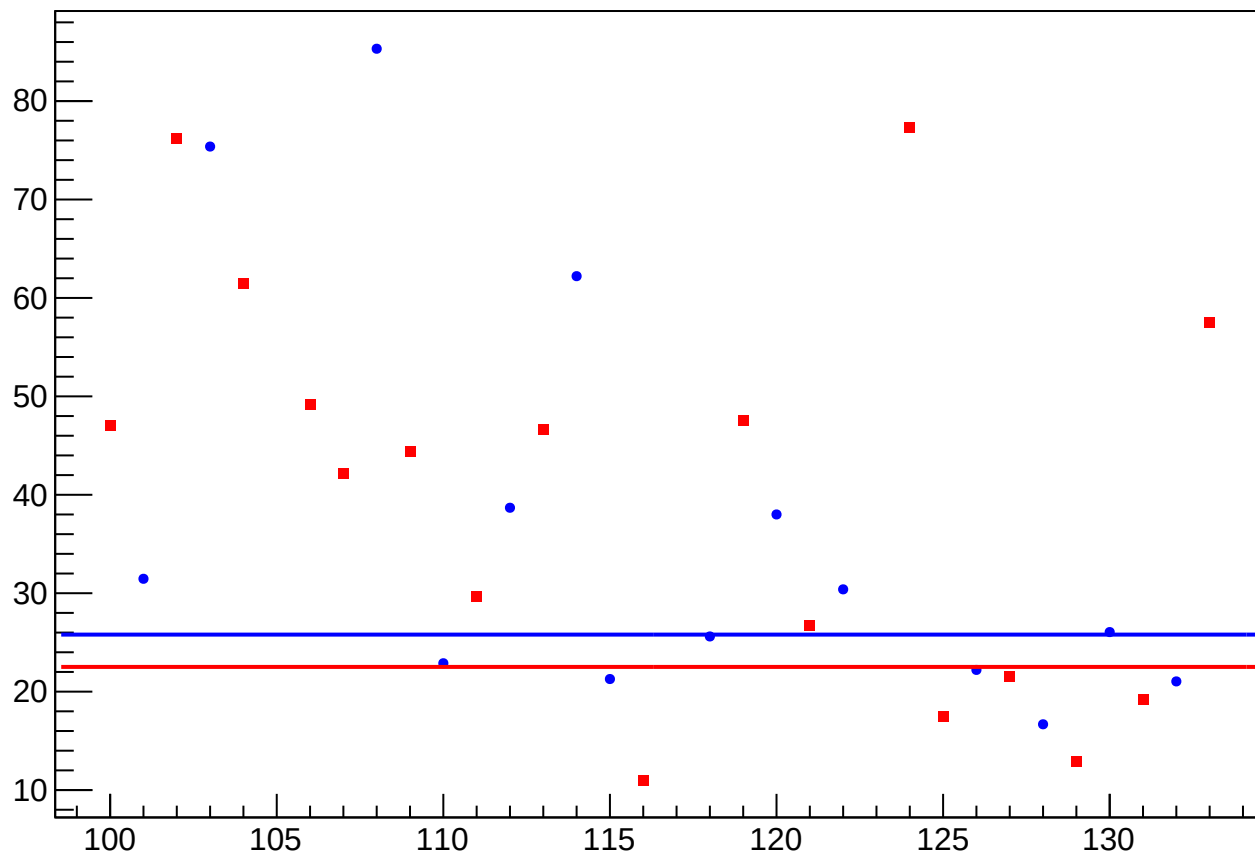
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.017 $\pm$ 0.008  $\chi^2$ /NDF: 23.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 25.795+/-0.009  $\chi^2/\text{NDF}$ : 1329797.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.512+/-0.008  $\chi^2/\text{NDF}$ : 3282061.4/16

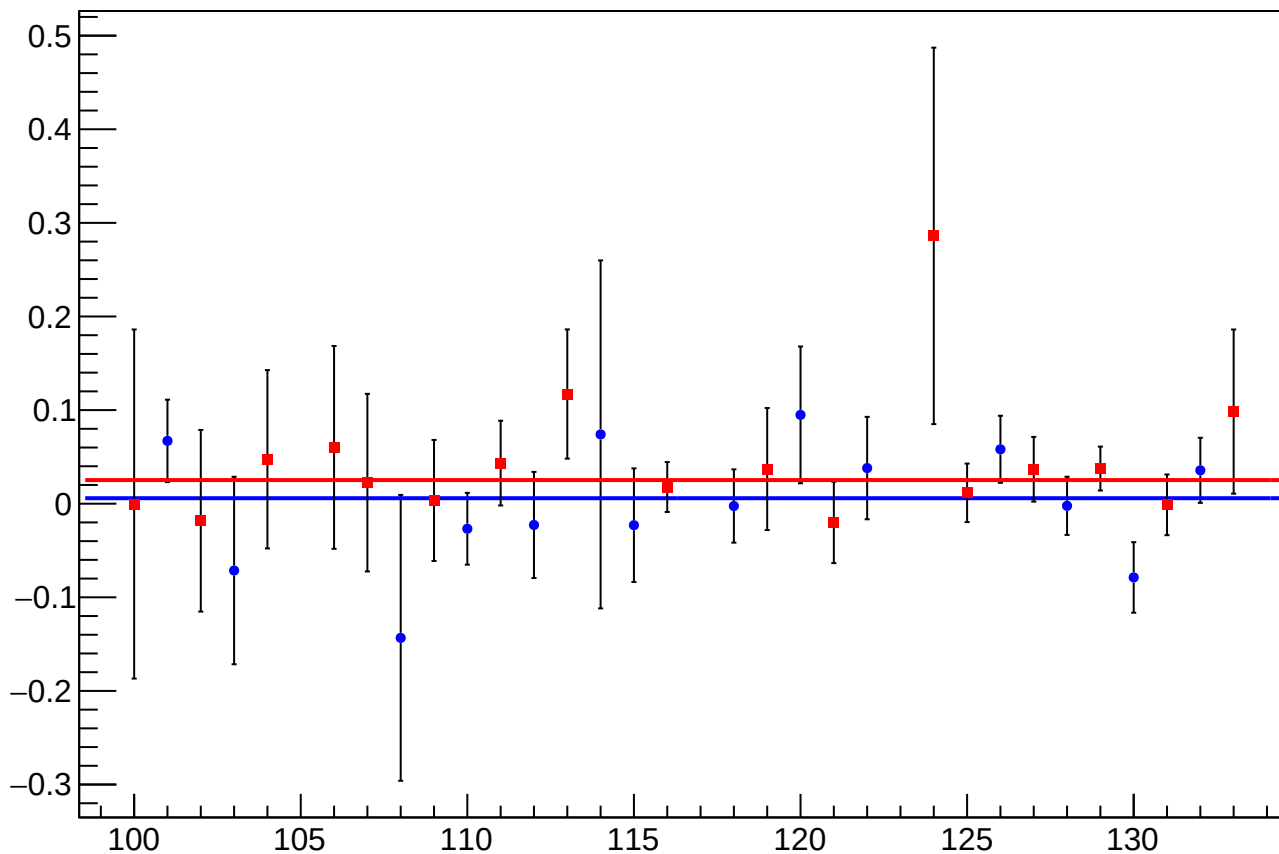
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.947+/-0.006  $\chi^2/\text{NDF}$ : 4690405.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.006 $\pm$ 0.012  $\chi^2$ /NDF: 14.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.025 $\pm$ 0.011  $\chi^2$ /NDF: 7.2/16

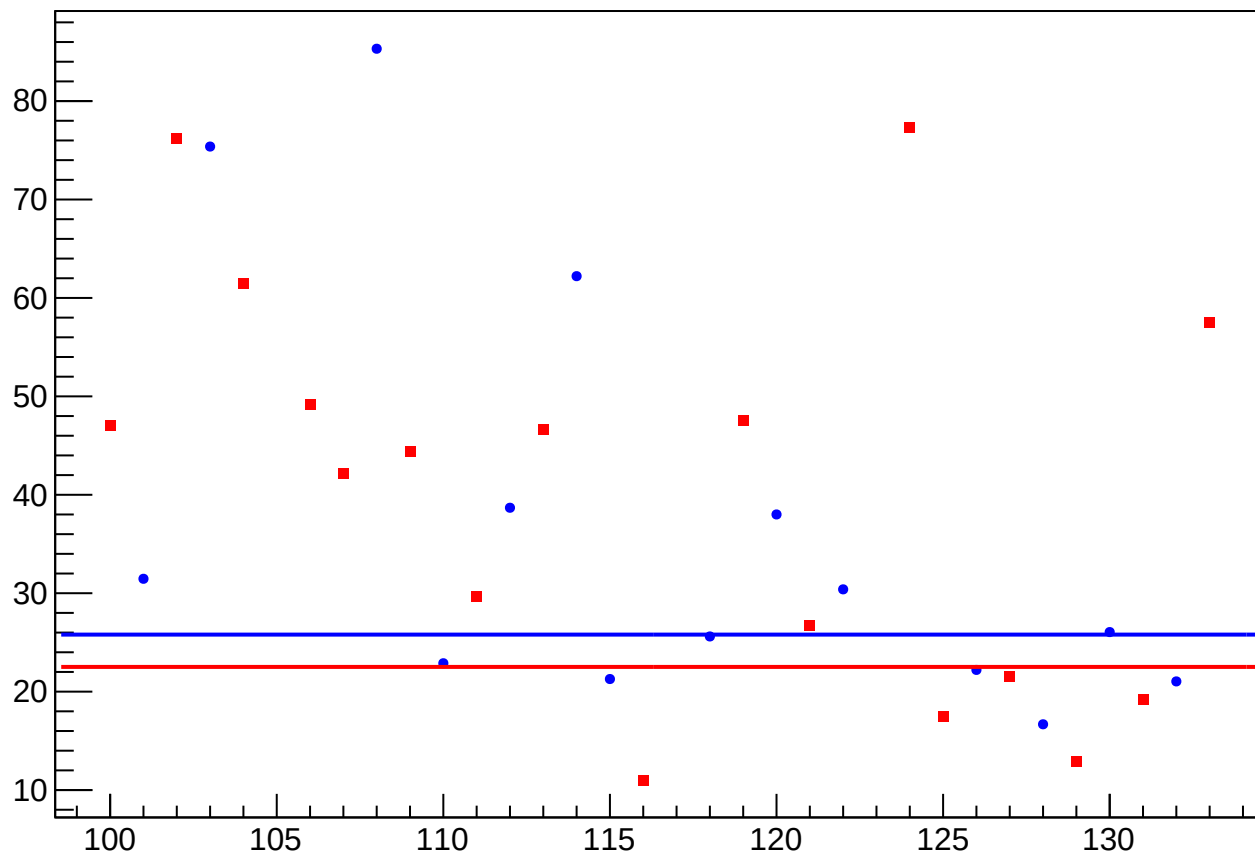
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.017 $\pm$ 0.008  $\chi^2$ /NDF: 23.3/30

- 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: 25.795+/-0.009  $\chi^2/\text{NDF}$ : 1329797.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.512+/-0.008  $\chi^2/\text{NDF}$ : 3282061.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

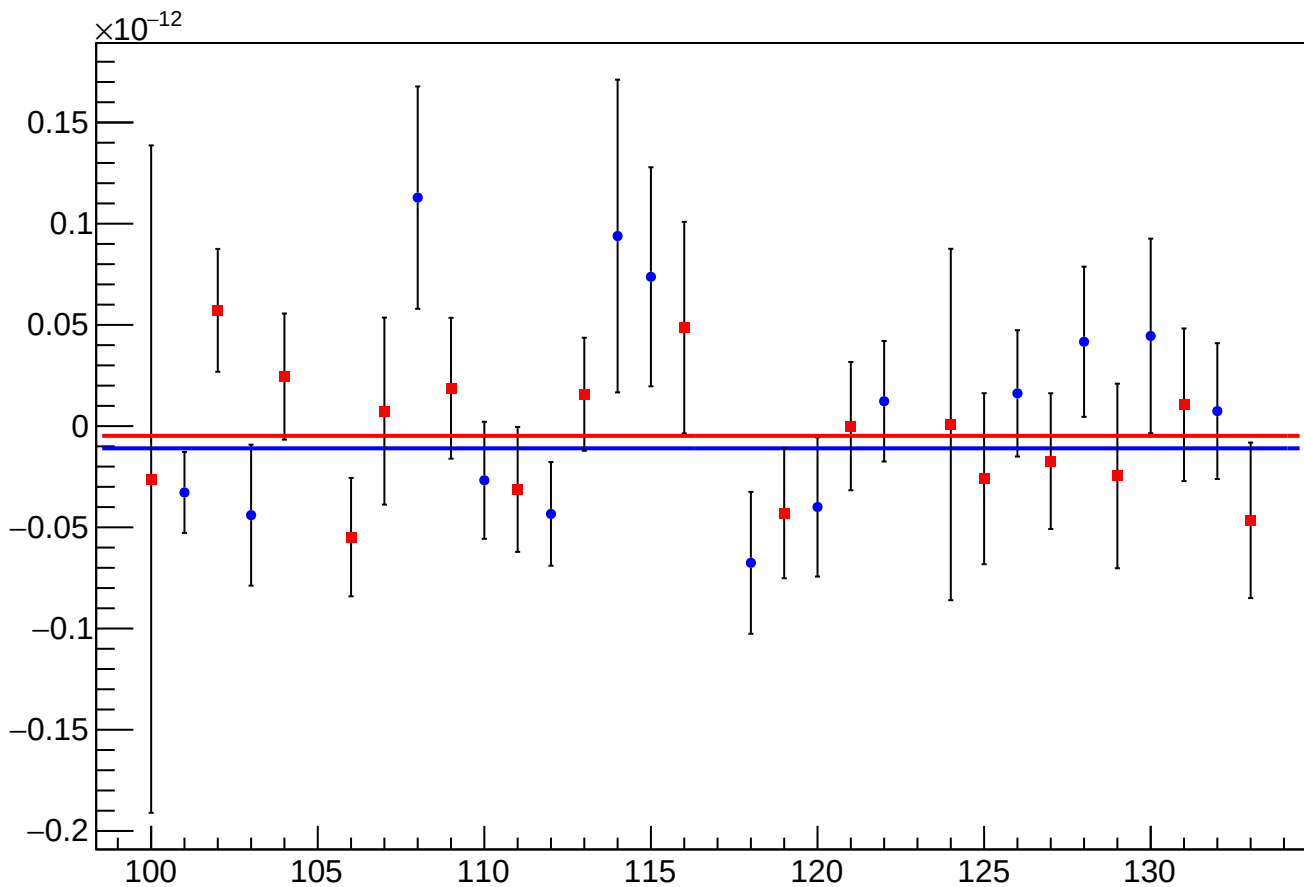
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.947+/-0.006  $\chi^2/\text{NDF}$ : 4690405.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 21.7/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 14.2/16

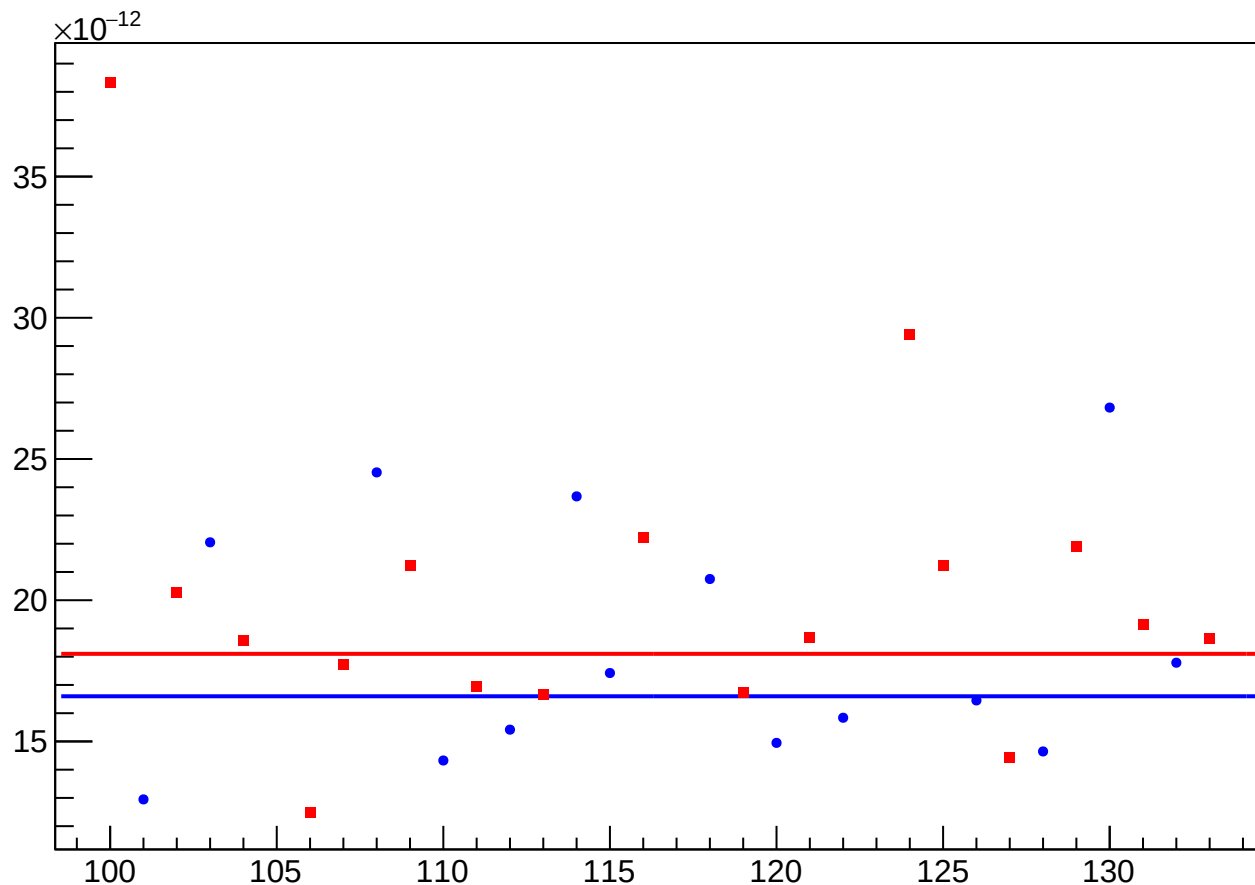
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 36.2/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 323470.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 240195.2/16

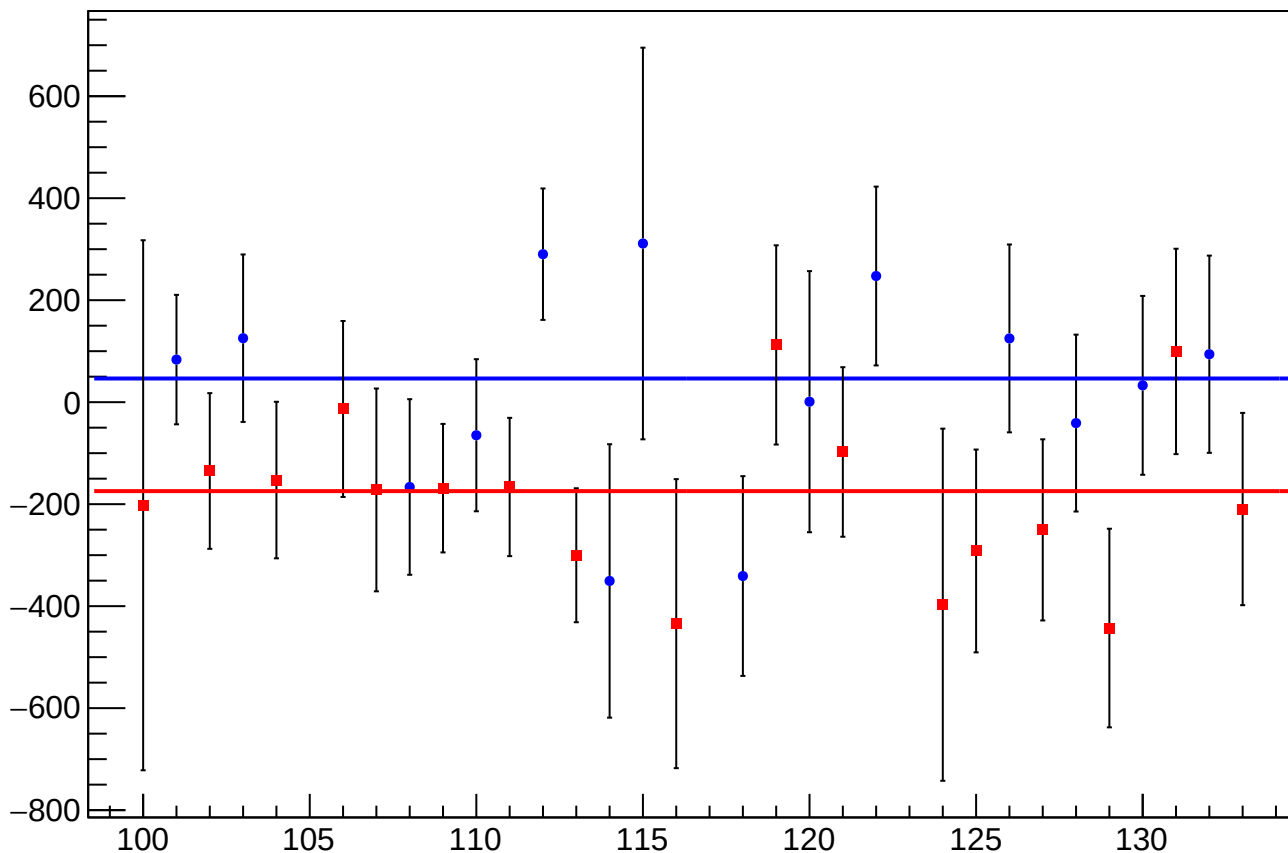
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 592410.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 46.423+/-46.901  $\chi^2/\text{NDF}$ : 14.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -174.422+/-42.927  $\chi^2/\text{NDF}$ : 9.8/16

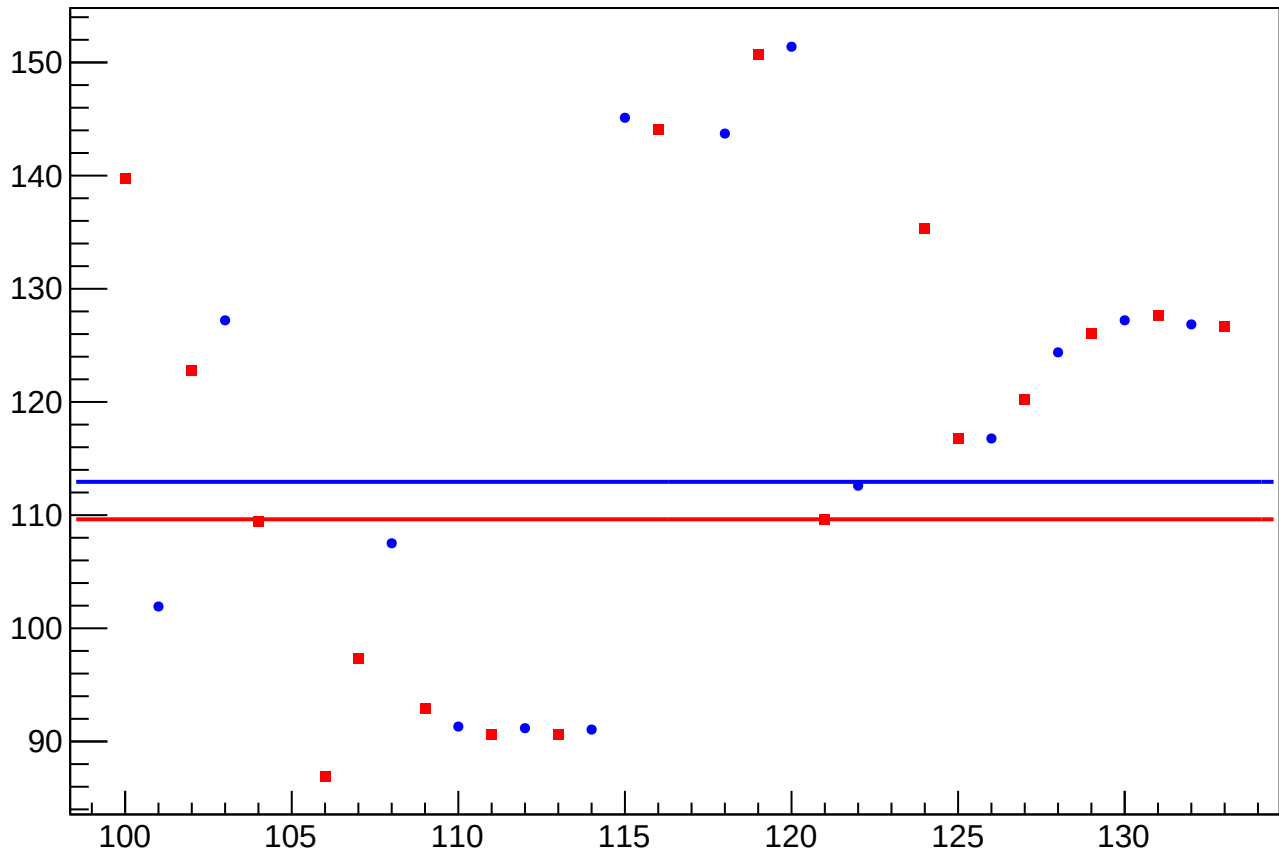
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -73.751+/-31.666  $\chi^2/\text{NDF}$ : 36.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 112.943 $\pm$ 0.033  $\chi^2$ /NDF: 286301.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 109.633 $\pm$ 0.030  $\chi^2$ /NDF: 365758.4/16

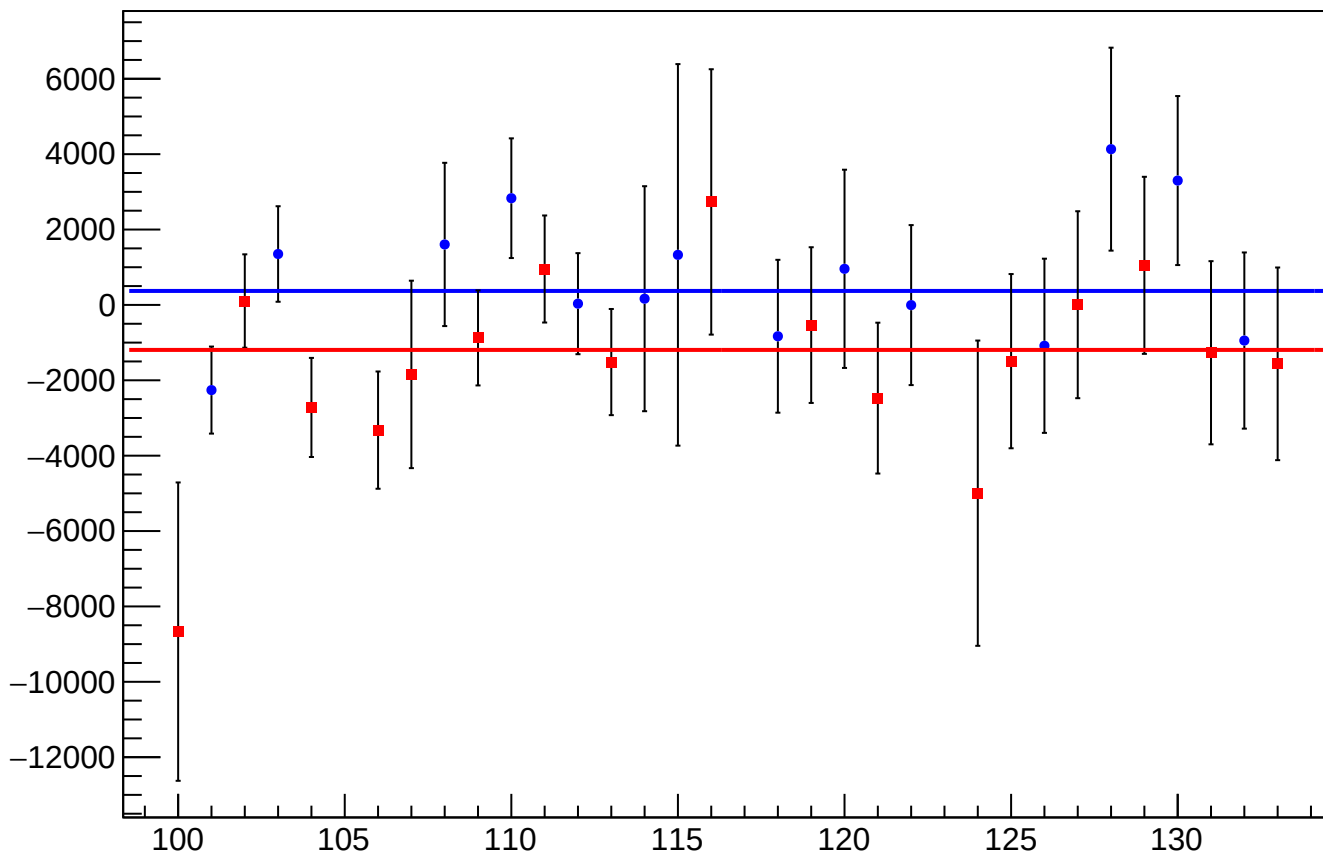
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 111.142 $\pm$ 0.022  $\chi^2$ /NDF: 657481.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_48\_dd\_reg\_correction\_mean vs Slug



Right In: 370.881+/-499.568  $\chi^2/\text{NDF}$ : 13.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1194.017+/-448.243  $\chi^2/\text{NDF}$ : 14.2/16

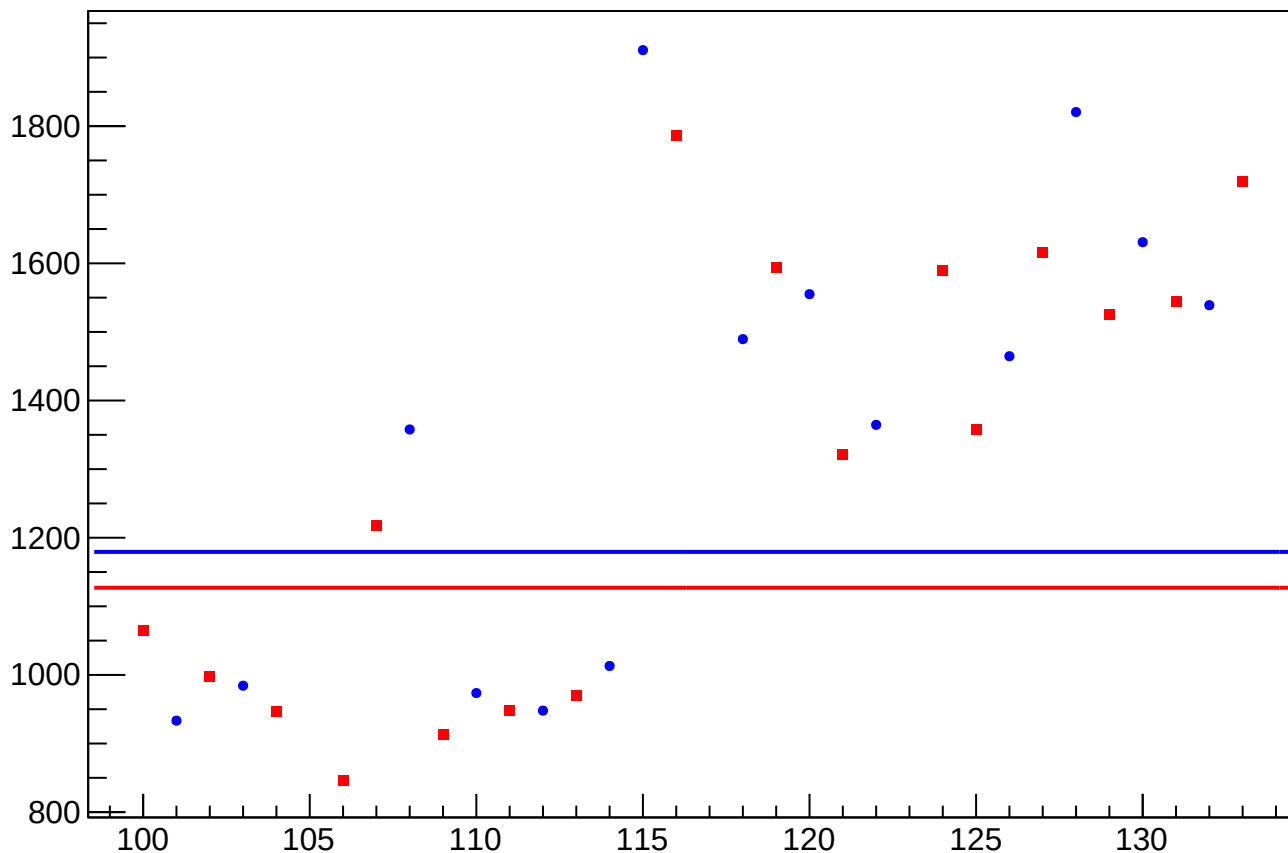
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -496.061+/-333.630  $\chi^2/\text{NDF}$ : 33.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_dd\_reg\_correction\_rms vs Slug



Right In: 1179.349 $\pm$ 0.353  $\chi^2$ /NDF: 667998.9/13

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

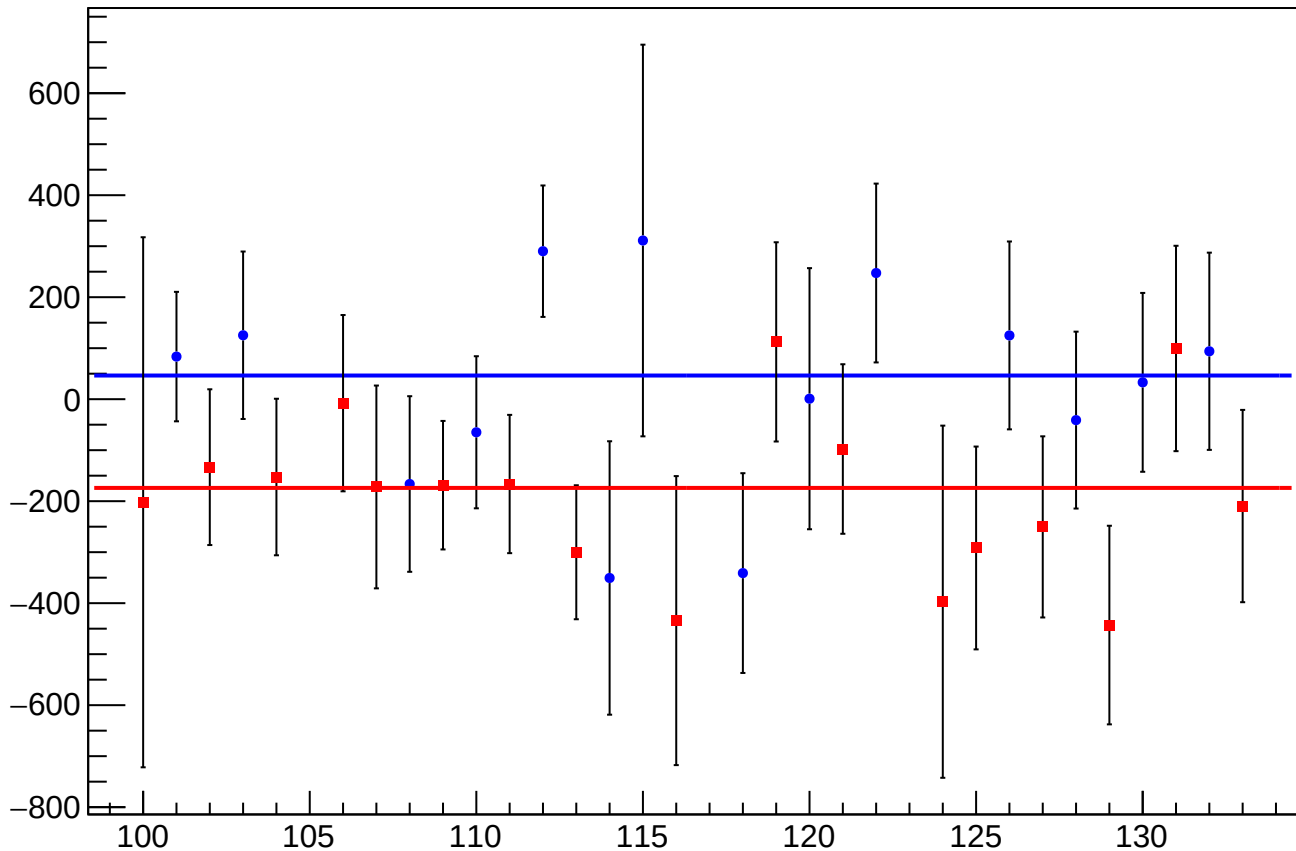
Right Out: 1127.083 $\pm$ 0.317  $\chi^2$ /NDF: 779541.7/16

All: 1150.394 $\pm$ 0.236  $\chi^2$ /NDF: 1459668.2/30

- 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\_sam\_48\_dd\_mean vs Slug



Right In: 46.402 $\pm$ 46.901  $\chi^2$ /NDF: 14.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -173.983 $\pm$ 42.933  $\chi^2$ /NDF: 9.9/16

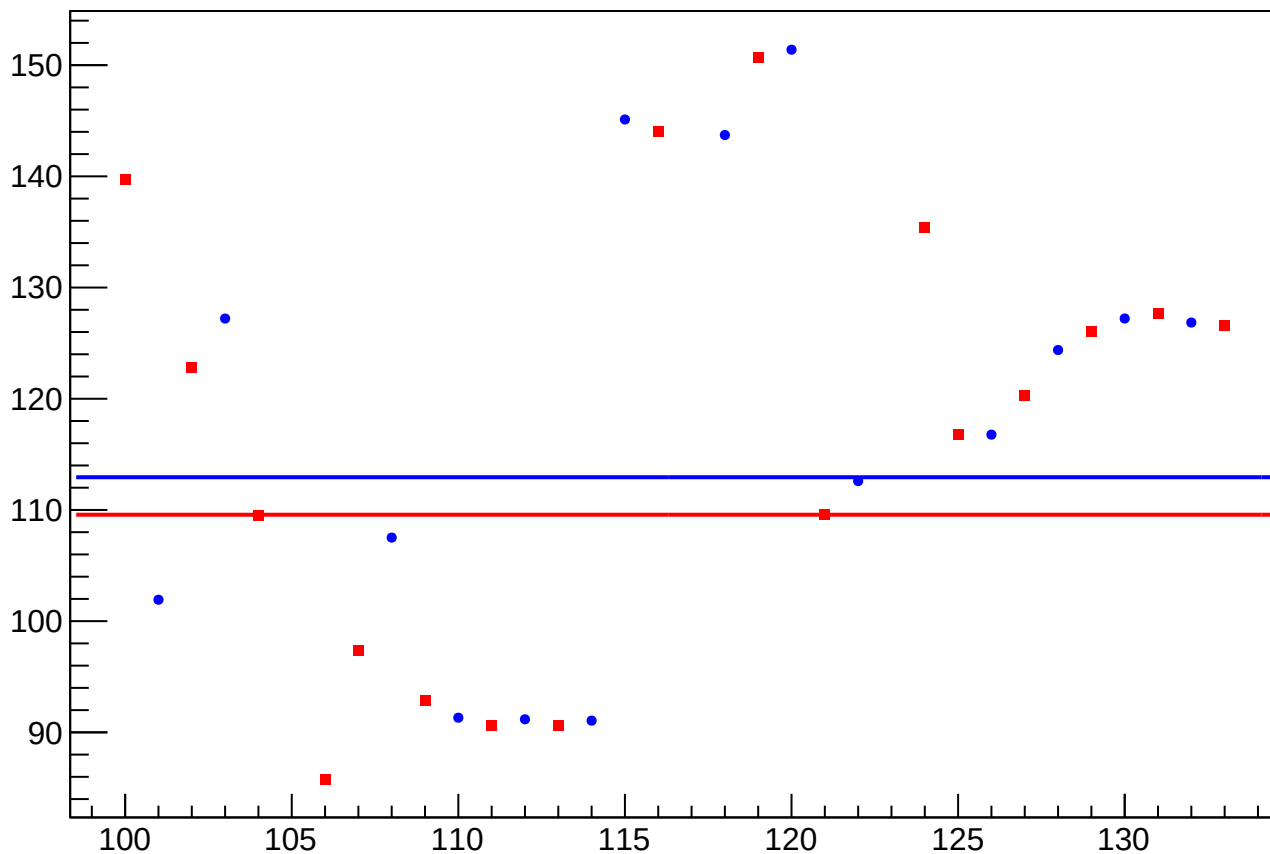
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -73.506 $\pm$ 31.668  $\chi^2$ /NDF: 36.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 112.943 $\pm$ 0.033  $\chi^2$ /NDF: 286302.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 109.570 $\pm$ 0.030  $\chi^2$ /NDF: 369289.4/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

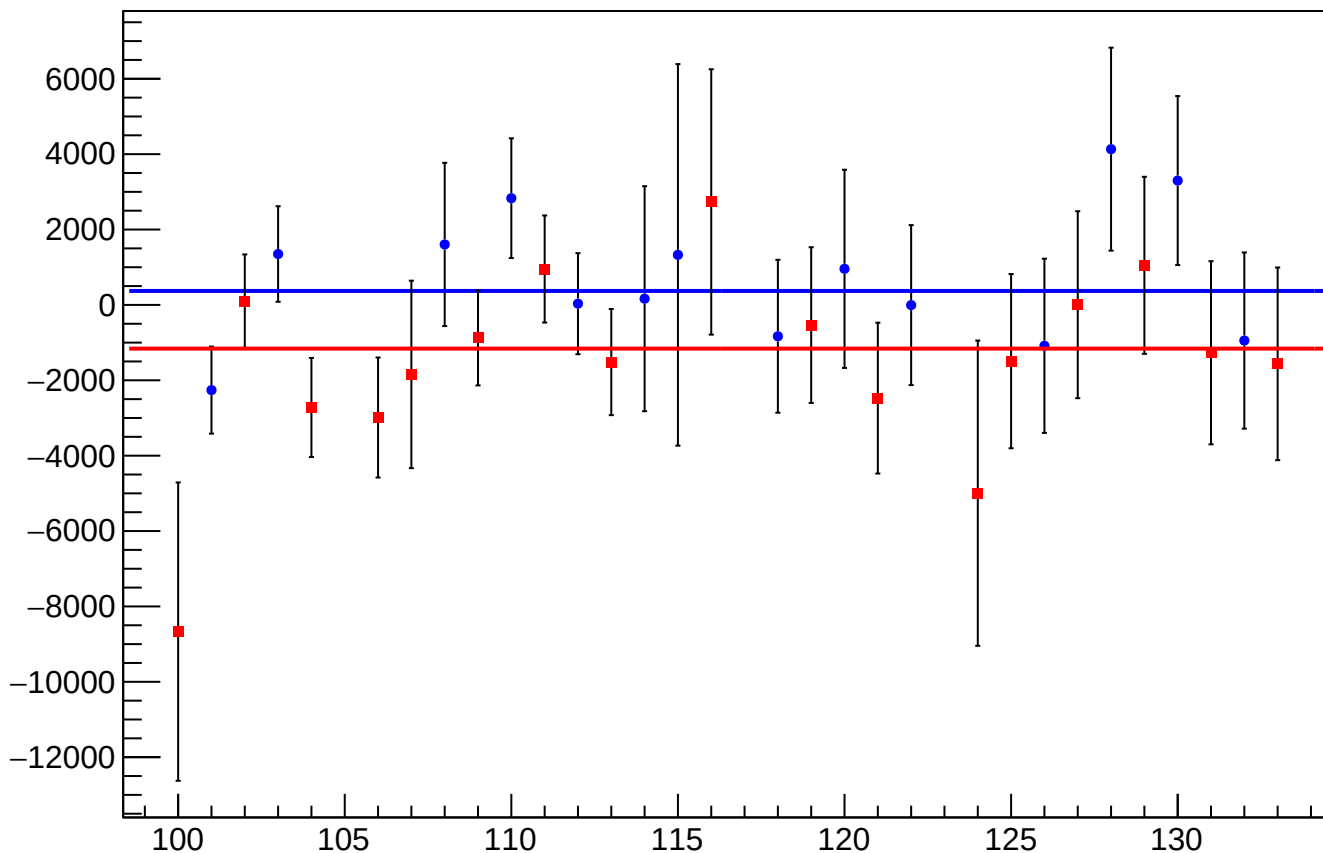
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 111.108 $\pm$ 0.022  $\chi^2$ /NDF: 661219.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_48\_dd\_cor\_correction\_mean vs Slug



Right In: 370.770+/-499.572  $\chi^2/\text{NDF}$ : 13.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1159.784+/-449.118  $\chi^2/\text{NDF}$ : 13.6/16

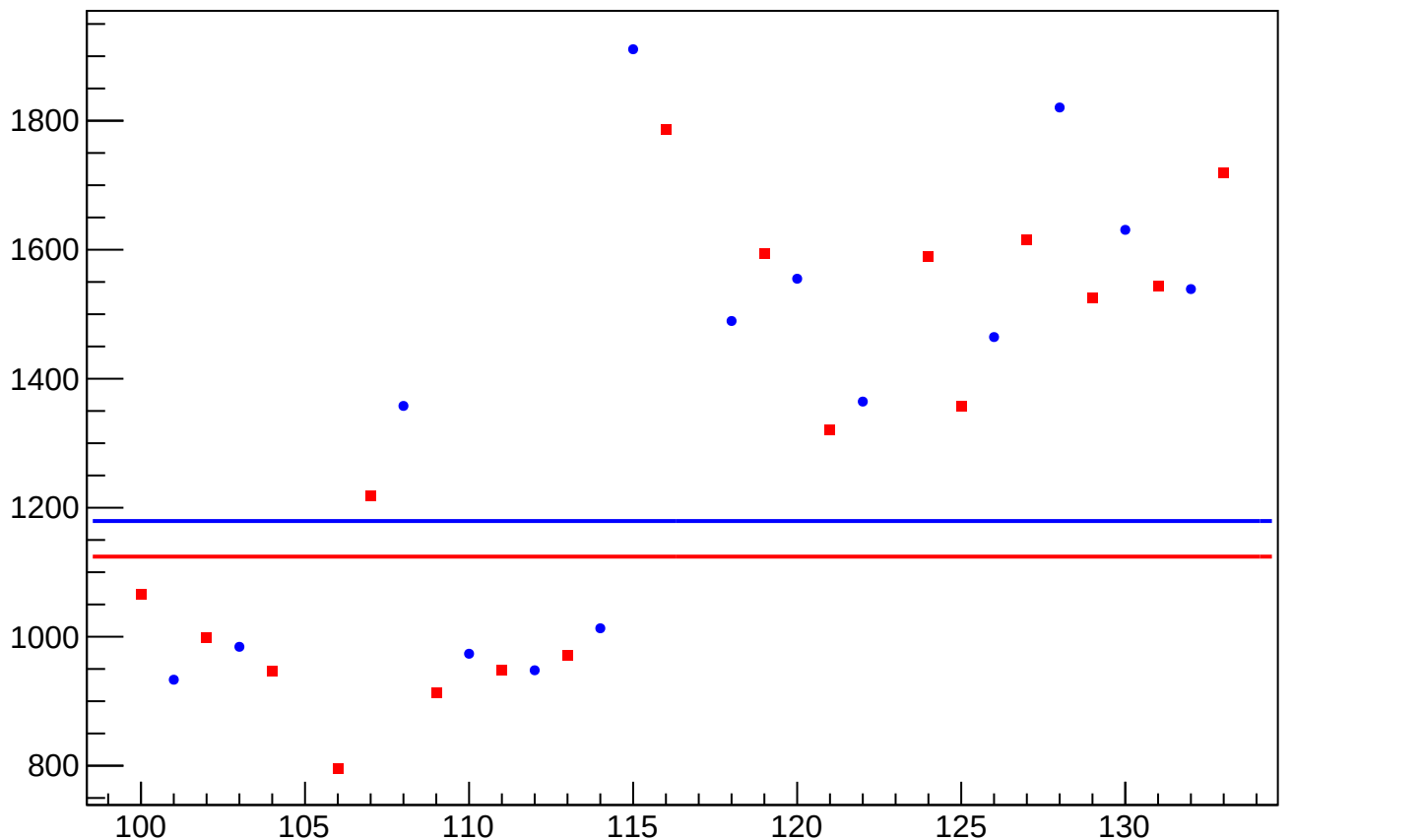
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -475.678+/-333.992  $\chi^2/\text{NDF}$ : 32.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_dd\_cor\_correction\_rms vs Slug



Right In: 1179.362 $\pm$ 0.353  $\chi^2$ /NDF: 667963.5/13

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

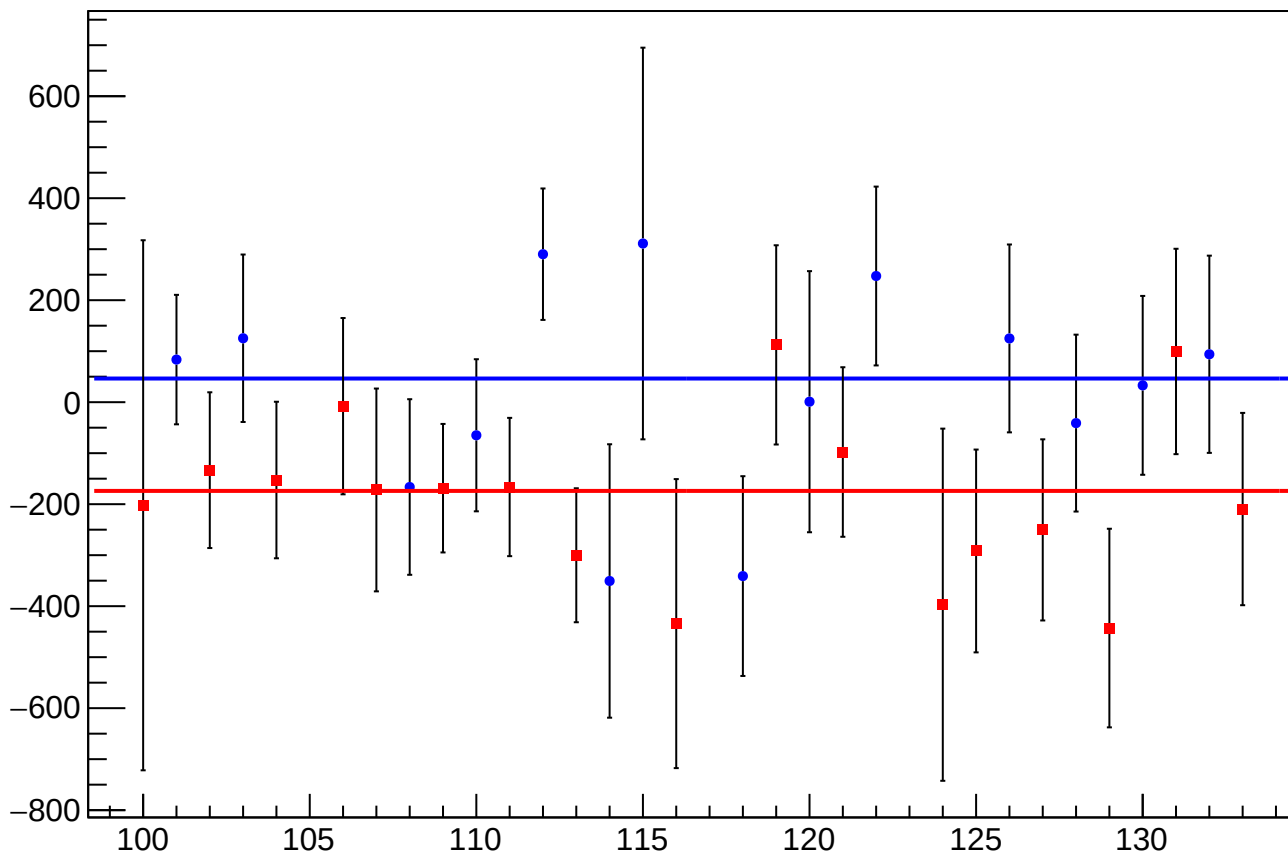
Right Out: 1124.188 $\pm$ 0.318  $\chi^2$ /NDF: 800722.4/16

All: 1148.849 $\pm$ 0.236  $\chi^2$ /NDF: 1482177.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 46.402 $\pm$ 46.901  $\chi^2$ /NDF: 14.4/13

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -173.983 $\pm$ -42.933  $\chi^2$ /NDF: 9.9/16

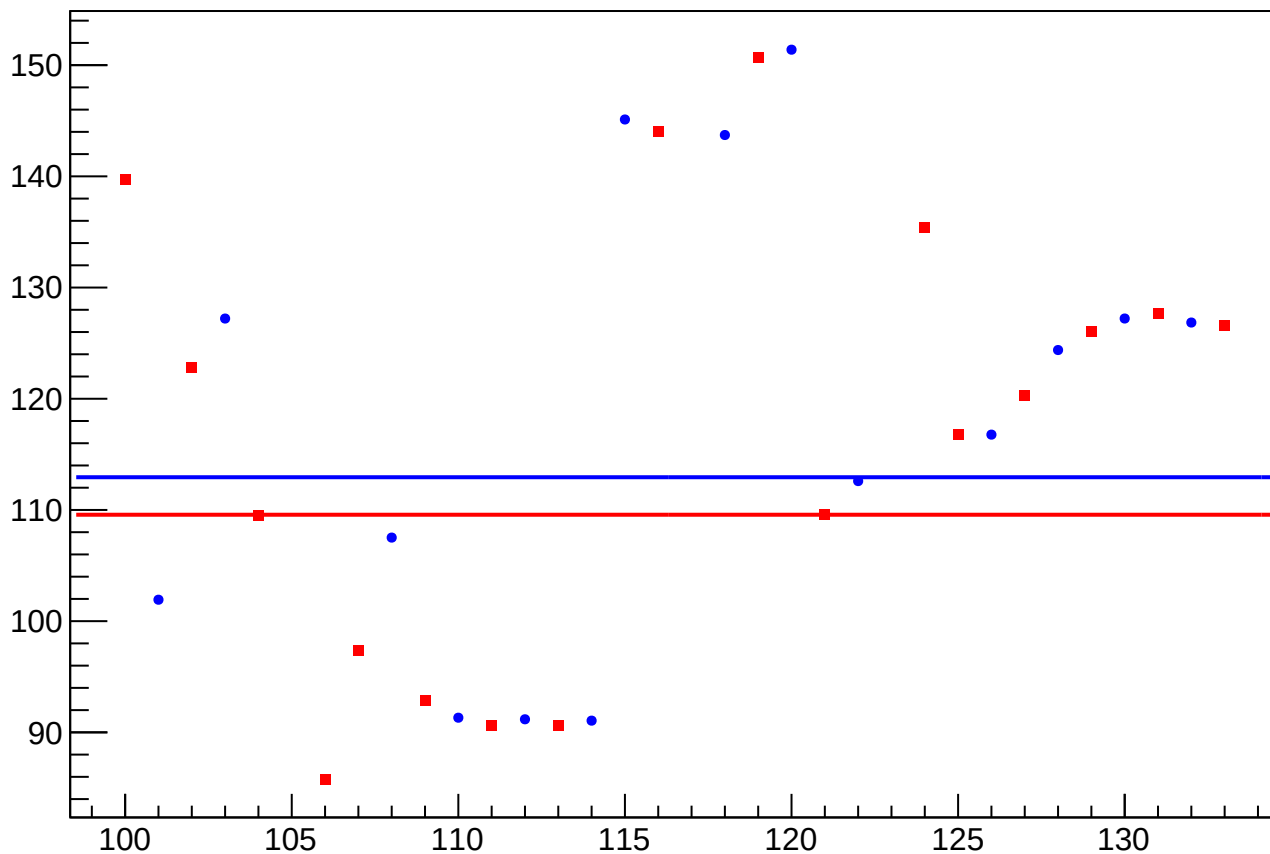
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: -73.506 $\pm$ -31.668  $\chi^2$ /NDF: 36.3/30

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 112.943 $\pm$ 0.033  $\chi^2$ /NDF: 286302.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 109.570 $\pm$ 0.030  $\chi^2$ /NDF: 369289.4/16

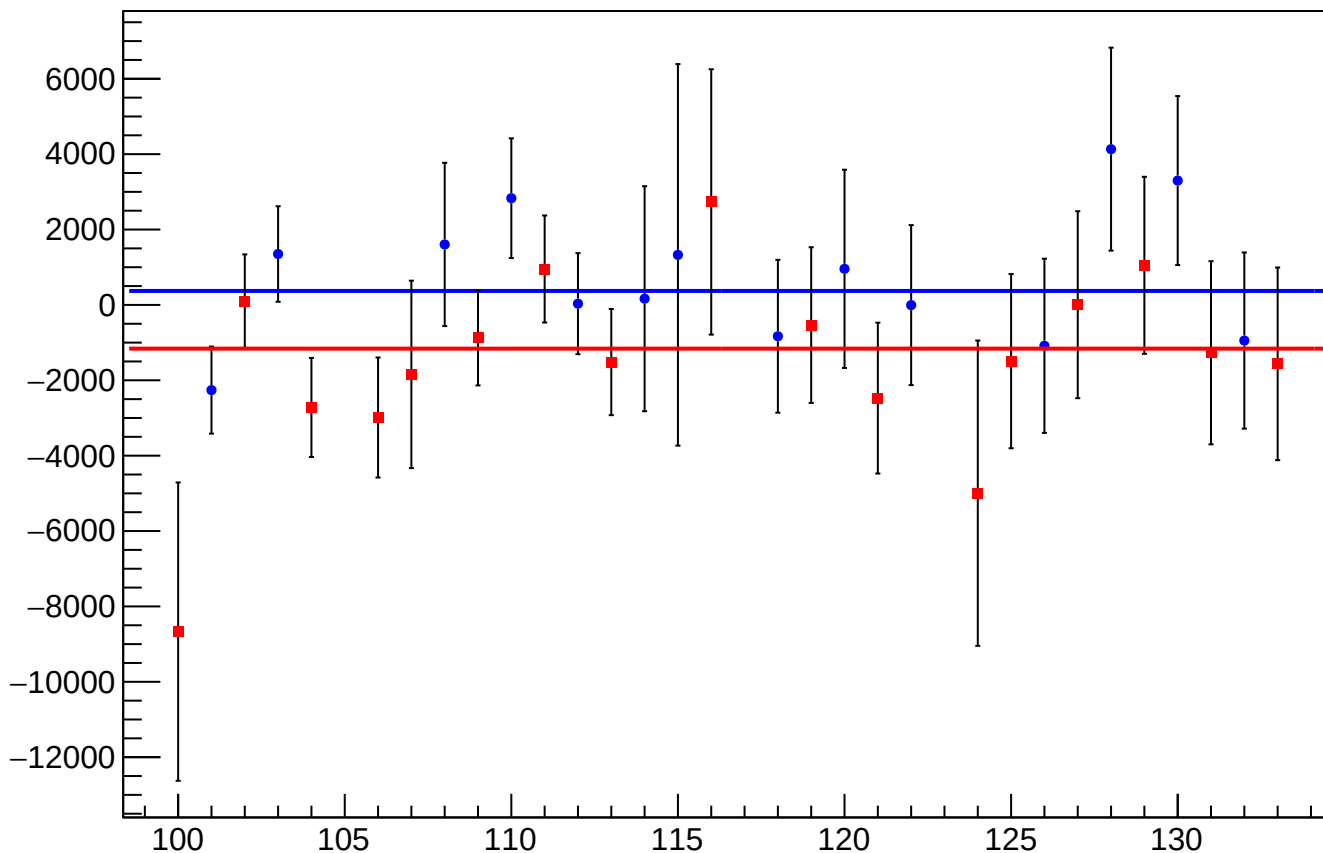
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 111.108 $\pm$ 0.022  $\chi^2$ /NDF: 661219.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 370.770+/-499.572  $\chi^2/\text{NDF}$ : 13.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1159.784+/-449.118  $\chi^2/\text{NDF}$ : 13.6/16

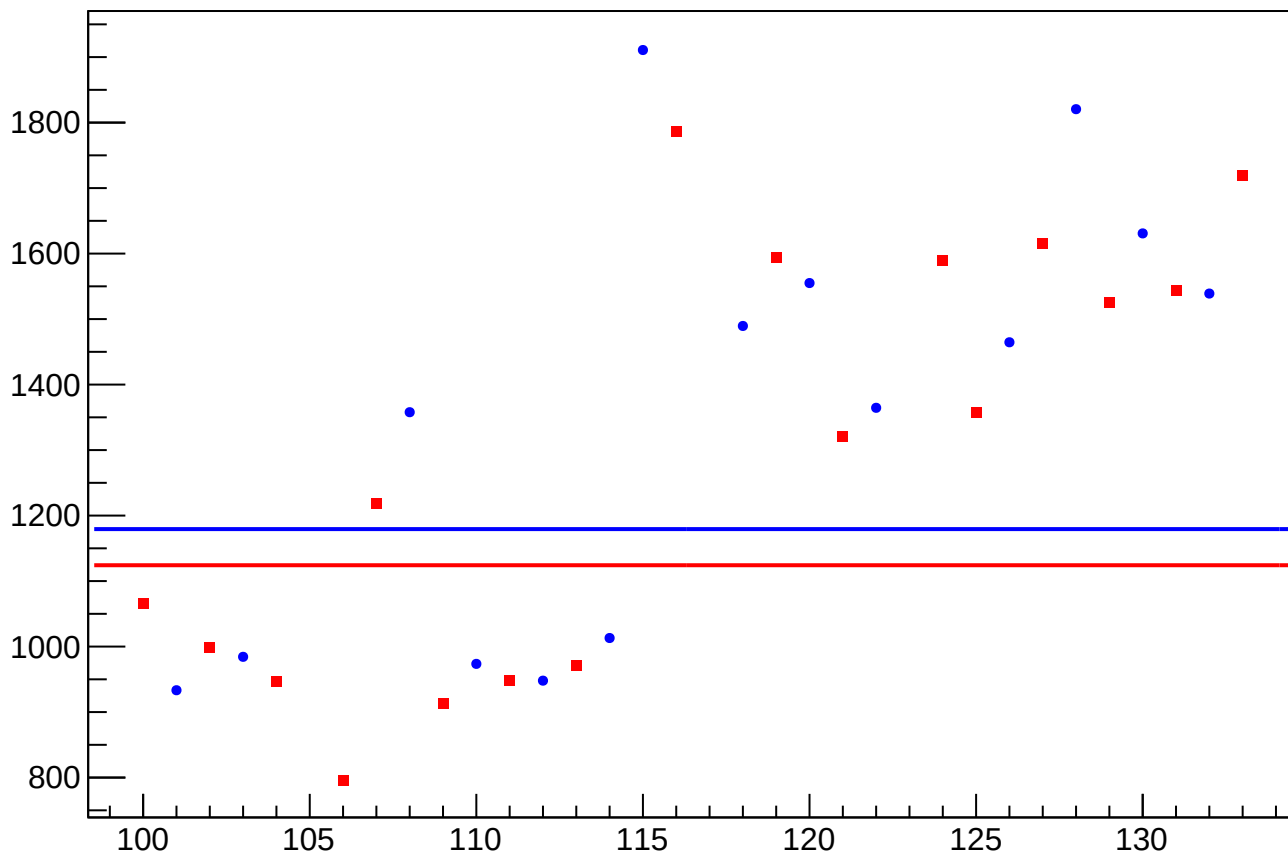
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -475.678+/-333.992  $\chi^2/\text{NDF}$ : 32.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1179.362+/-0.353  $\chi^2/\text{NDF}$ : 667963.5/13

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

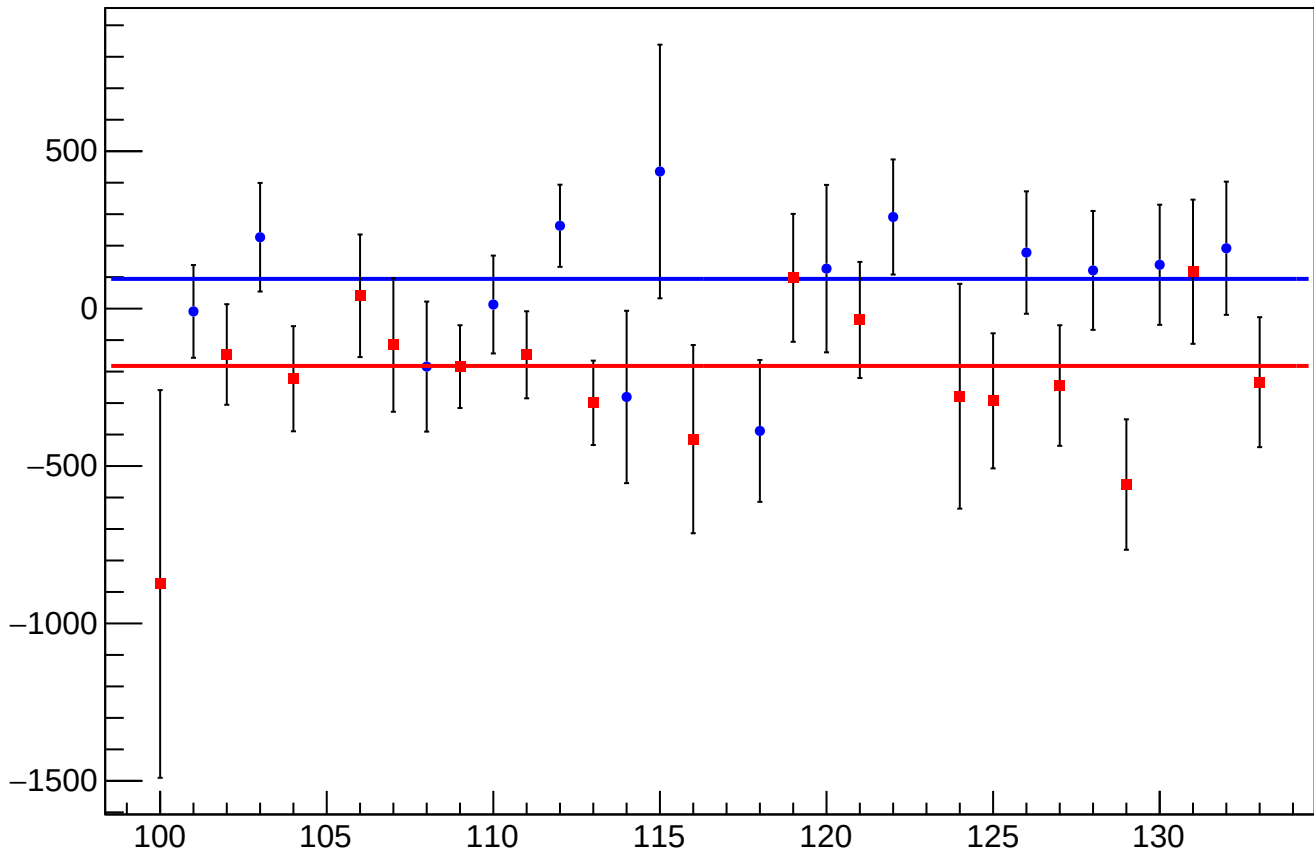
Right Out: 1124.188+/-0.318  $\chi^2/\text{NDF}$ : 800722.4/16

All: 1148.849+/-0.236  $\chi^2/\text{NDF}$ : 1482177.2/30

- 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\_sam\_48\_dd\_mean vs Slug



Right In: 94.440+/-50.586  $\chi^2/\text{NDF}$ : 13.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -181.998+/-45.665  $\chi^2/\text{NDF}$ : 12.3/16

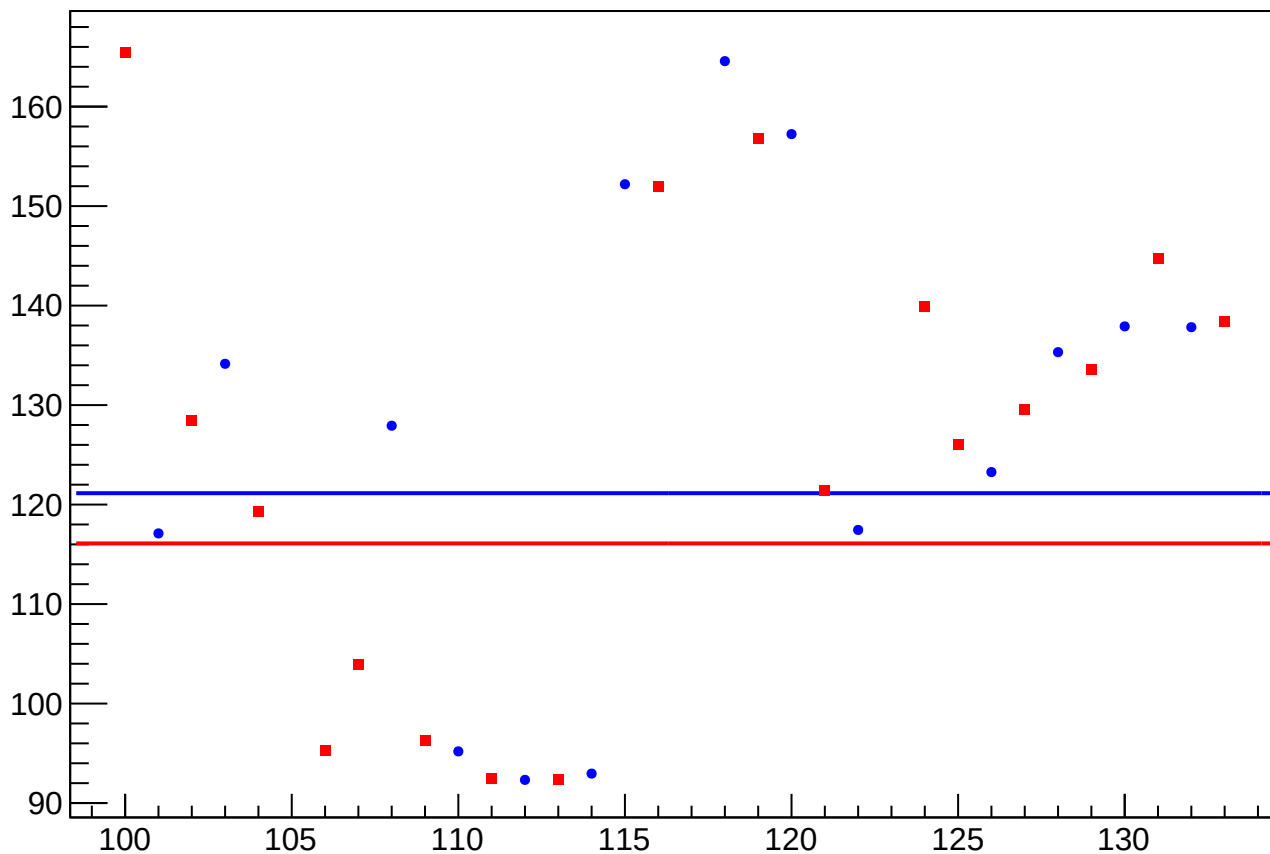
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -57.875+/-33.897  $\chi^2/\text{NDF}$ : 42.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_48\_dd\_rms vs Slug



Right In:  $121.144 \pm 0.036$   $\chi^2/\text{NDF}$ : 352687.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $116.095 \pm 0.032$   $\chi^2/\text{NDF}$ : 424379.1/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

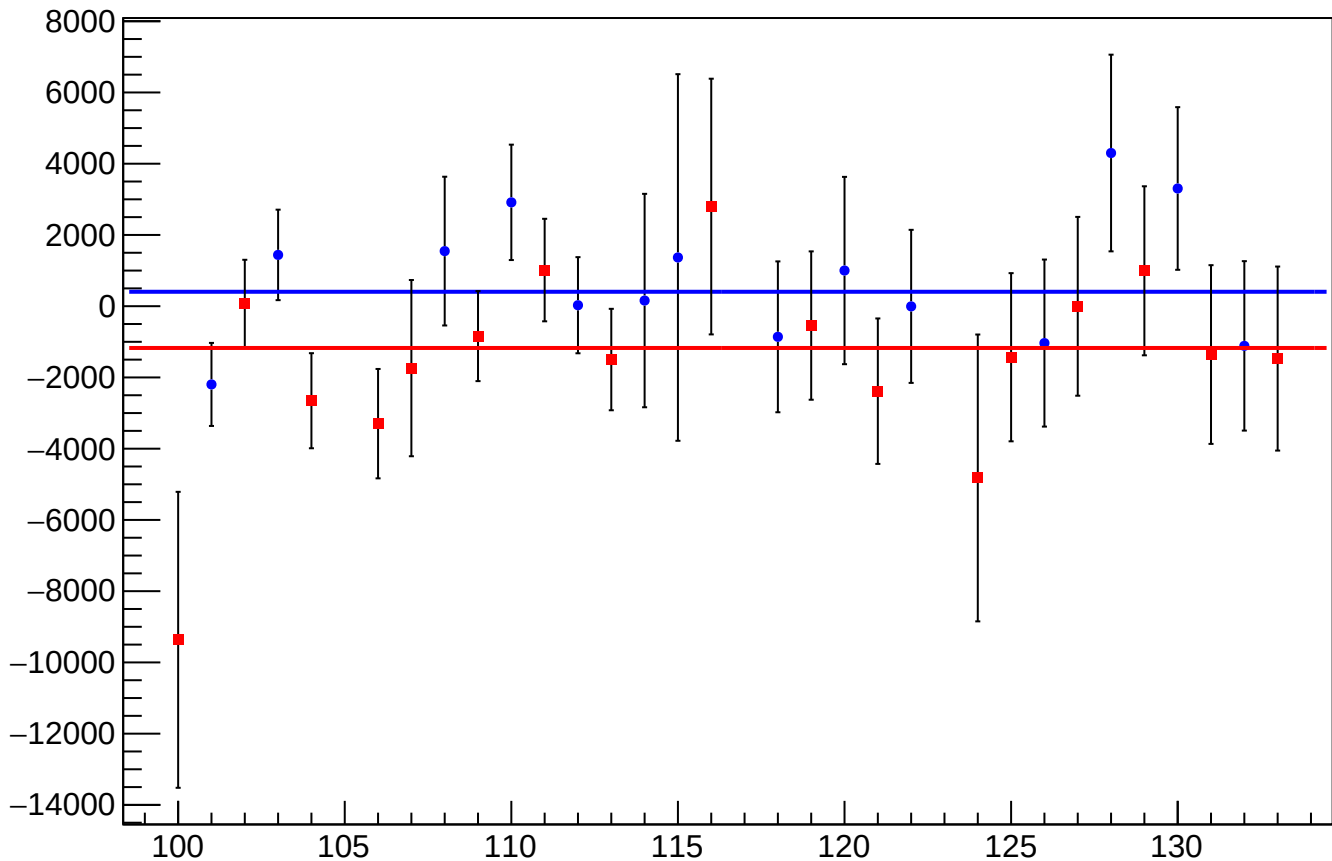
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $118.362 \pm 0.024$   $\chi^2/\text{NDF}$ : 788045.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_48\_dd\_dit\_correction\_mean vs Slug



Right In: 405.044 $\pm$ 504.380  $\chi^2/\text{NDF}$ : 13.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1172.683 $\pm$ 451.895  $\chi^2/\text{NDF}$ : 14.1/16

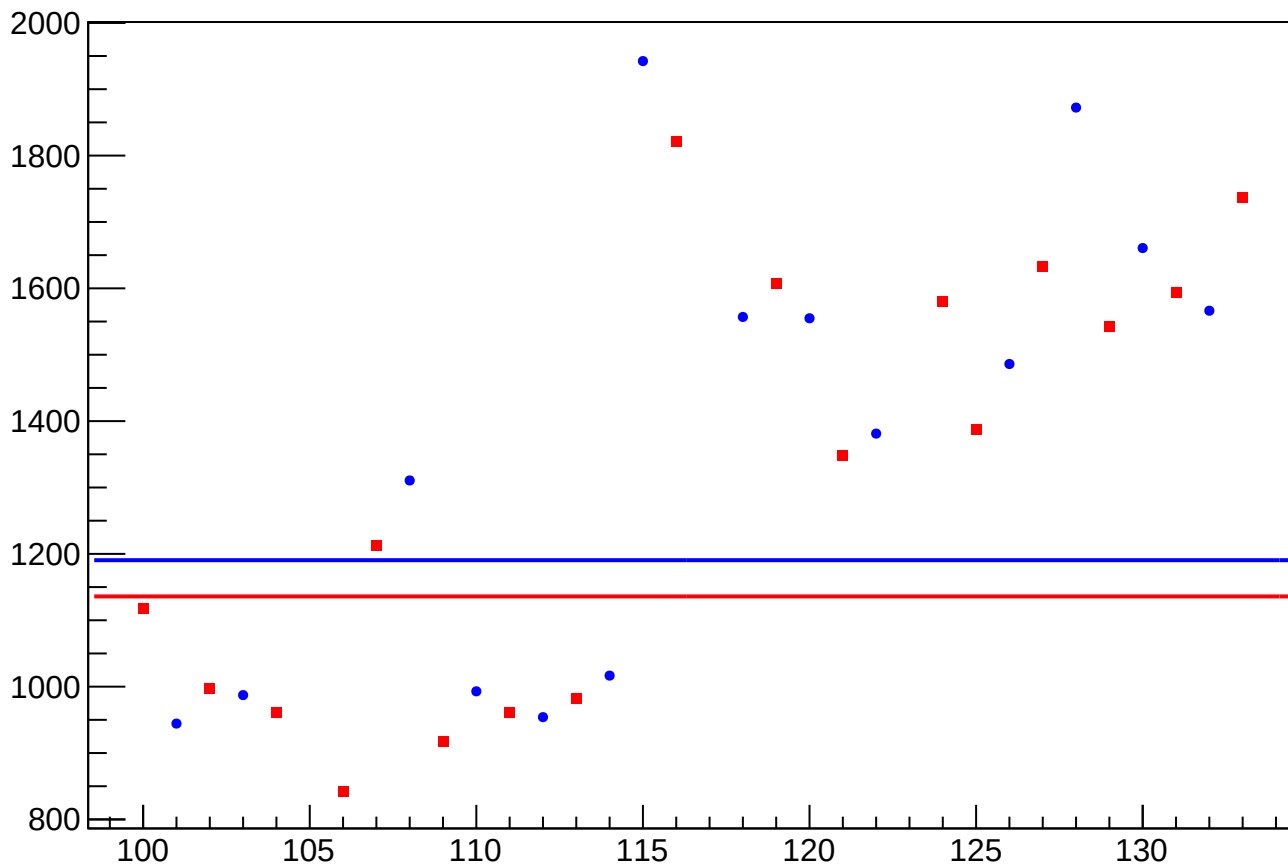
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -470.153 $\pm$ 336.569  $\chi^2/\text{NDF}$ : 32.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_dd\_dit\_correction\_rms vs Slug



Right In: 1190.479+/-0.357  $\chi^2/\text{NDF}$ : 690188.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1135.902+/-0.320  $\chi^2/\text{NDF}$ : 803251.9/16

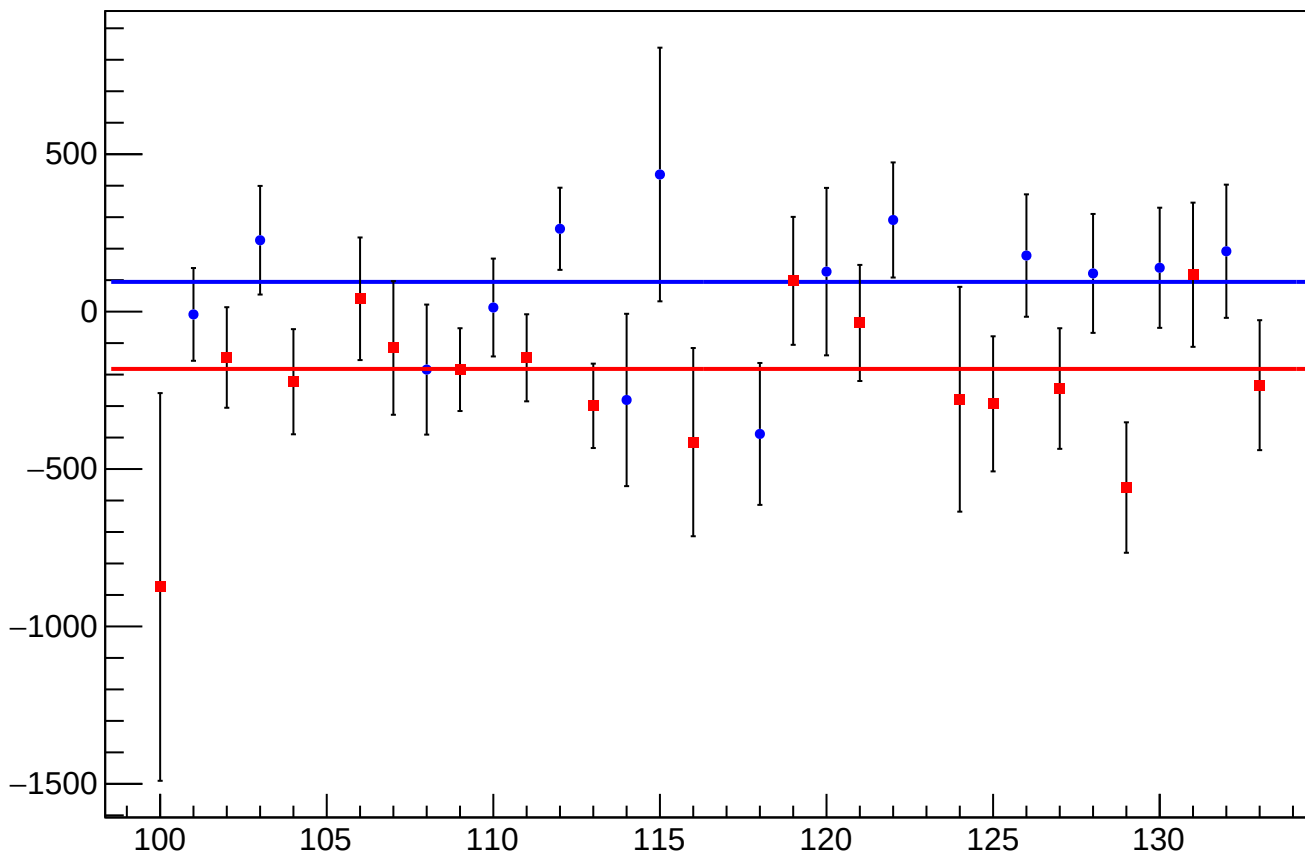
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1160.204+/-0.238  $\chi^2/\text{NDF}$ : 1506430.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 94.440 $\pm$ 50.586  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -181.997 $\pm$ 45.665  $\chi^2$ /NDF: 12.3/16

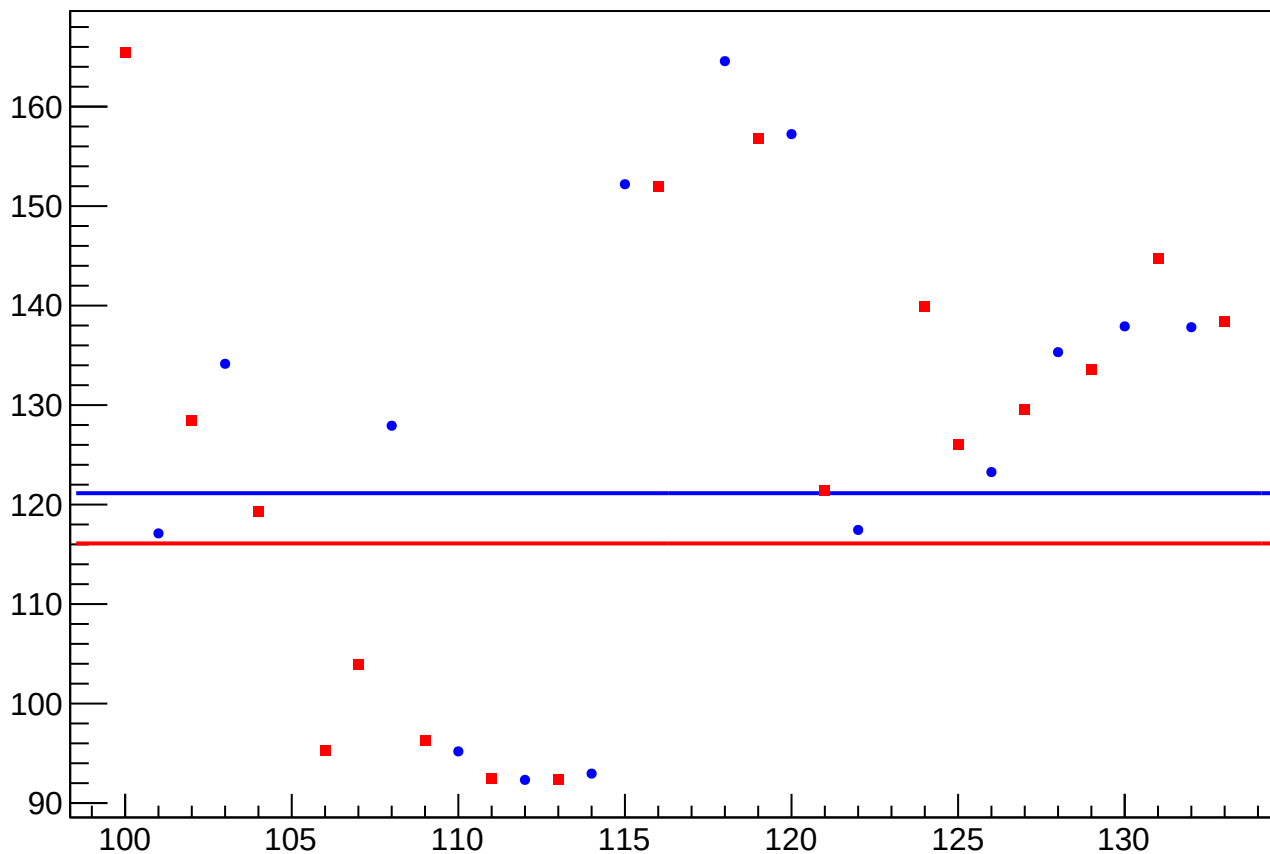
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -57.874 $\pm$ 33.897  $\chi^2$ /NDF: 42.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_48\_dd\_rms vs Slug



Right In:  $121.144 \pm 0.036$   $\chi^2/\text{NDF}$ : 352691.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $116.095 \pm 0.032$   $\chi^2/\text{NDF}$ : 424384.0/16

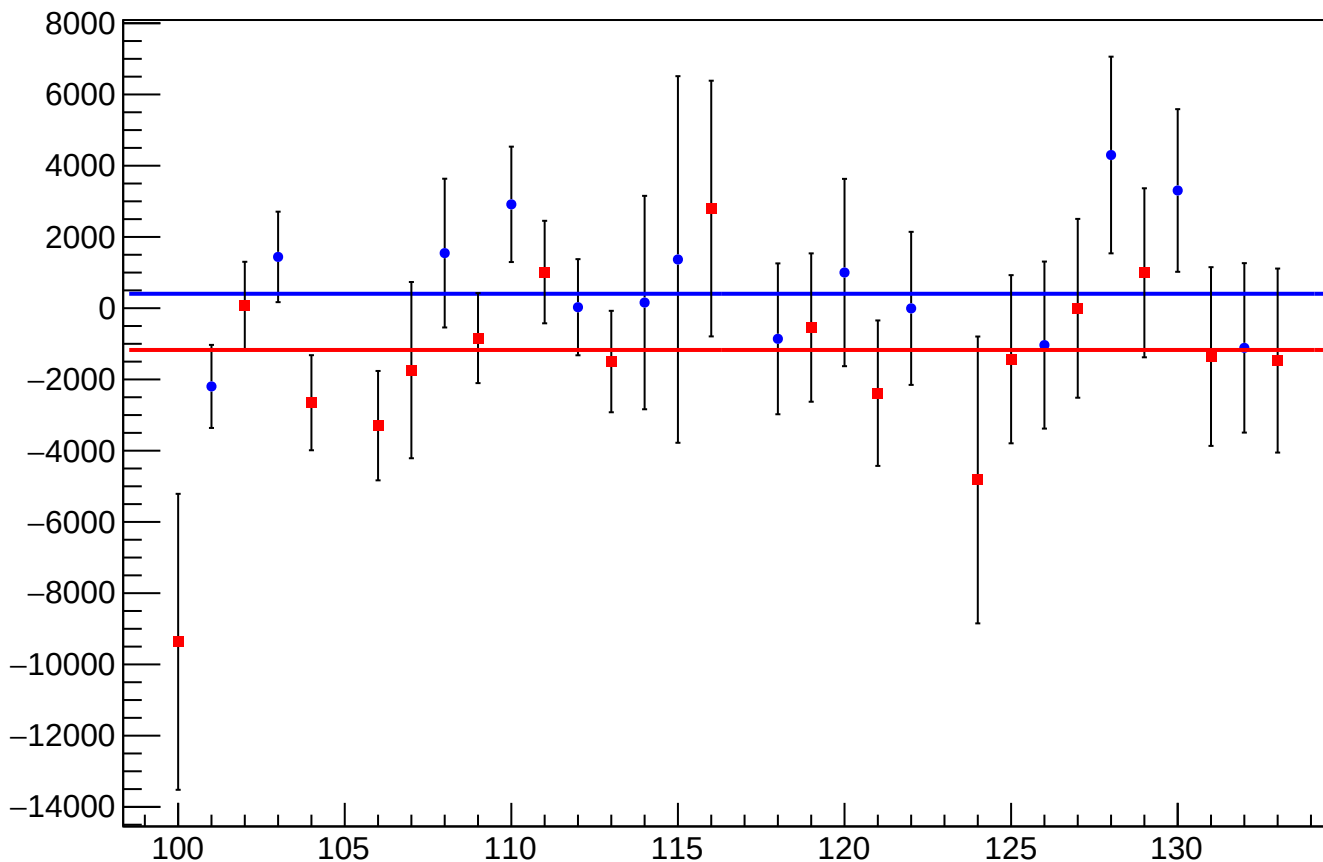
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $118.362 \pm 0.024$   $\chi^2/\text{NDF}$ : 788054.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 405.044 $\pm$ 504.380  $\chi^2$ /NDF: 13.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1172.683 $\pm$ 451.895  $\chi^2$ /NDF: 14.1/16

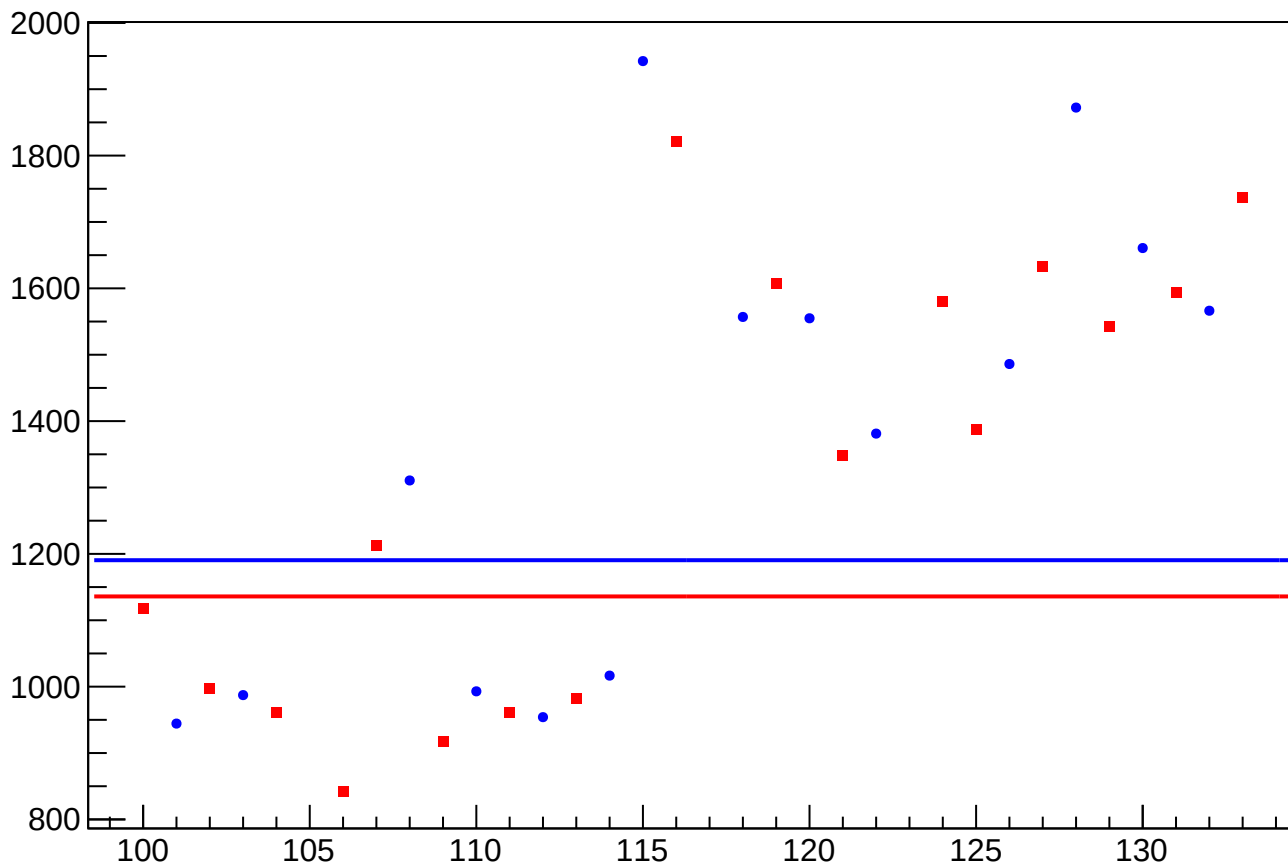
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -470.153 $\pm$ 336.569  $\chi^2$ /NDF: 32.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1190.480+/-0.357  $\chi^2/\text{NDF}$ : 690189.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1135.902+/-0.320  $\chi^2/\text{NDF}$ : 803253.1/16

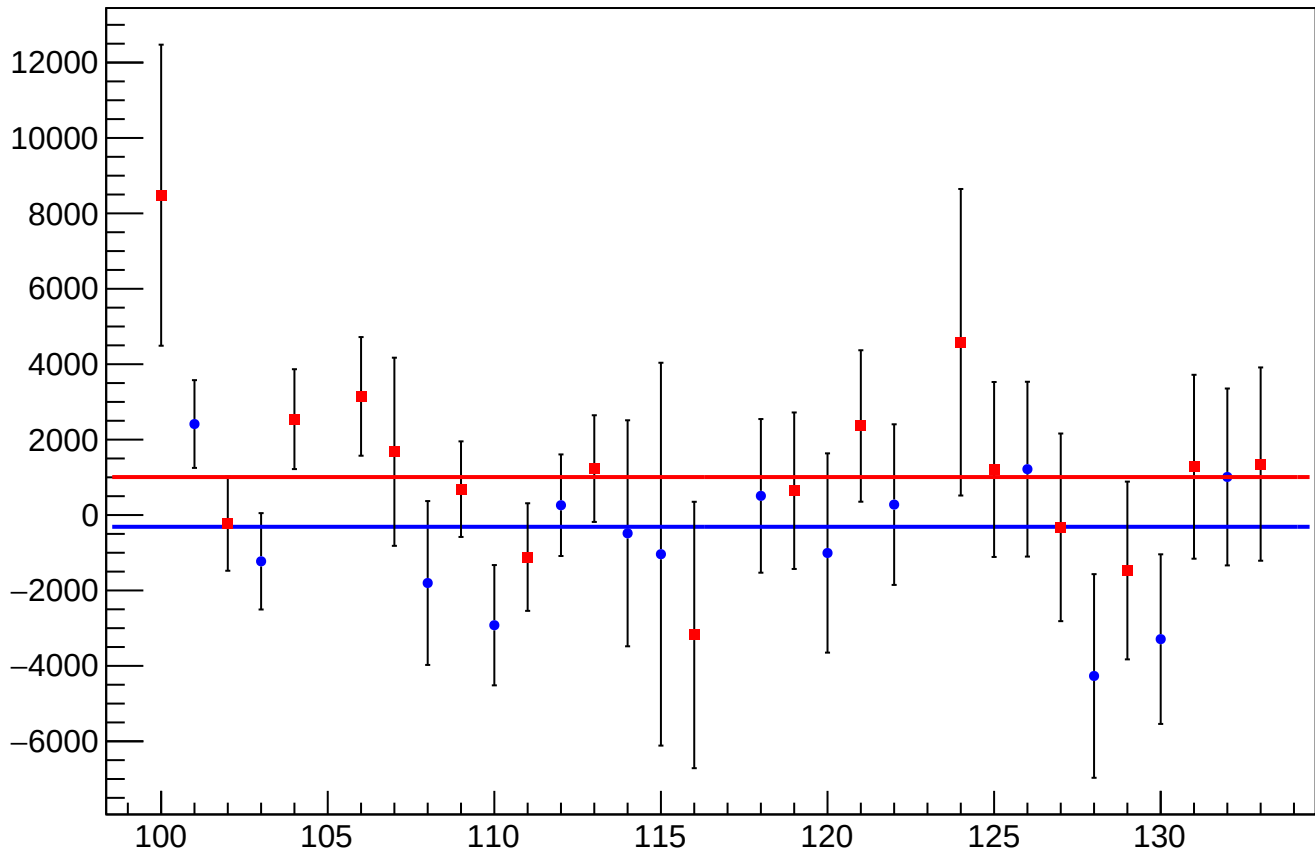
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1160.204+/-0.238  $\chi^2/\text{NDF}$ : 1506432.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_dd\_mean vs Slug



Right In:  $-311.704 \pm 502.257$   $\chi^2/\text{NDF}$ : 14.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1007.356 \pm 450.772$   $\chi^2/\text{NDF}$ : 14.1/16

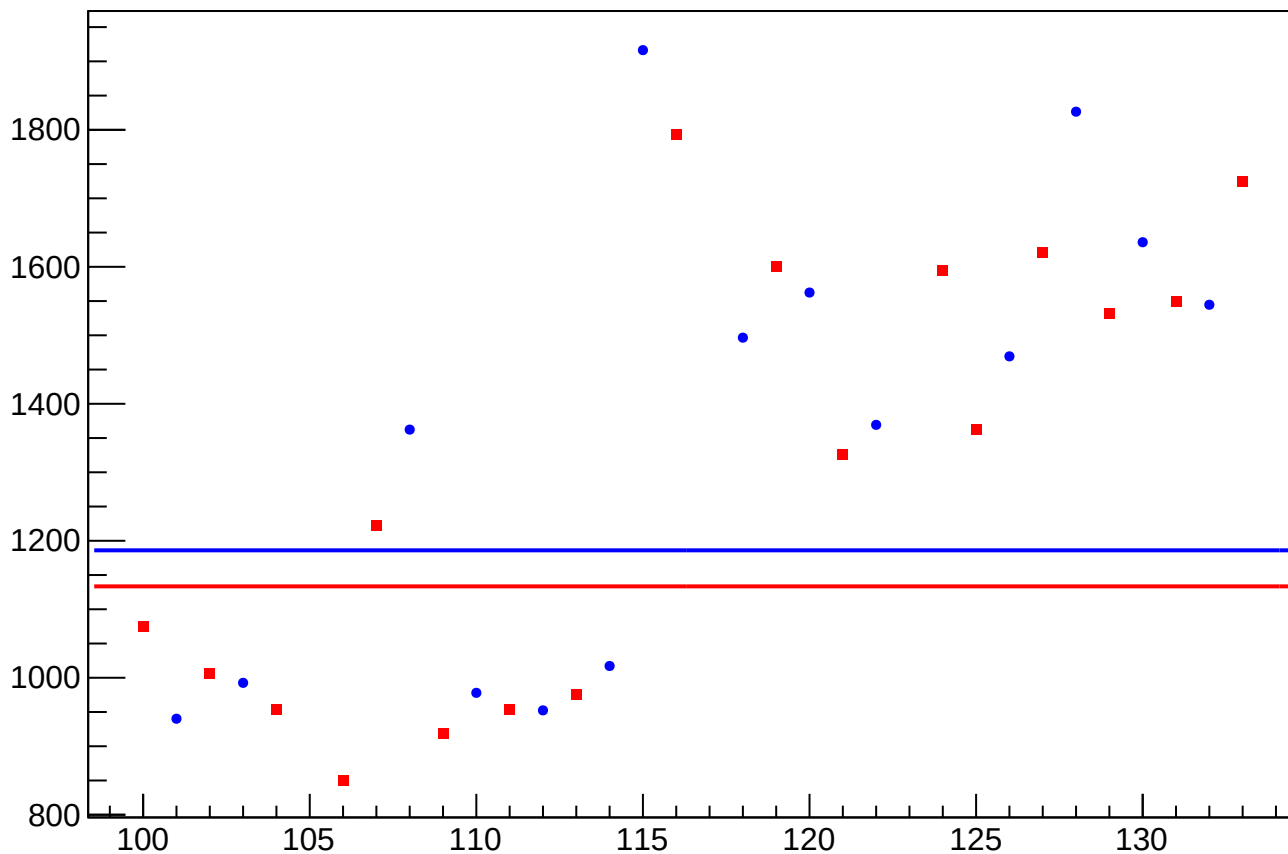
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $418.877 \pm 335.474$   $\chi^2/\text{NDF}$ : 32.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_dd\_rms vs Slug



Right In: 1186.047 $\pm$ 0.355  $\chi^2$ /NDF: 661158.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1133.431 $\pm$ 0.319  $\chi^2$ /NDF: 772987.2/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

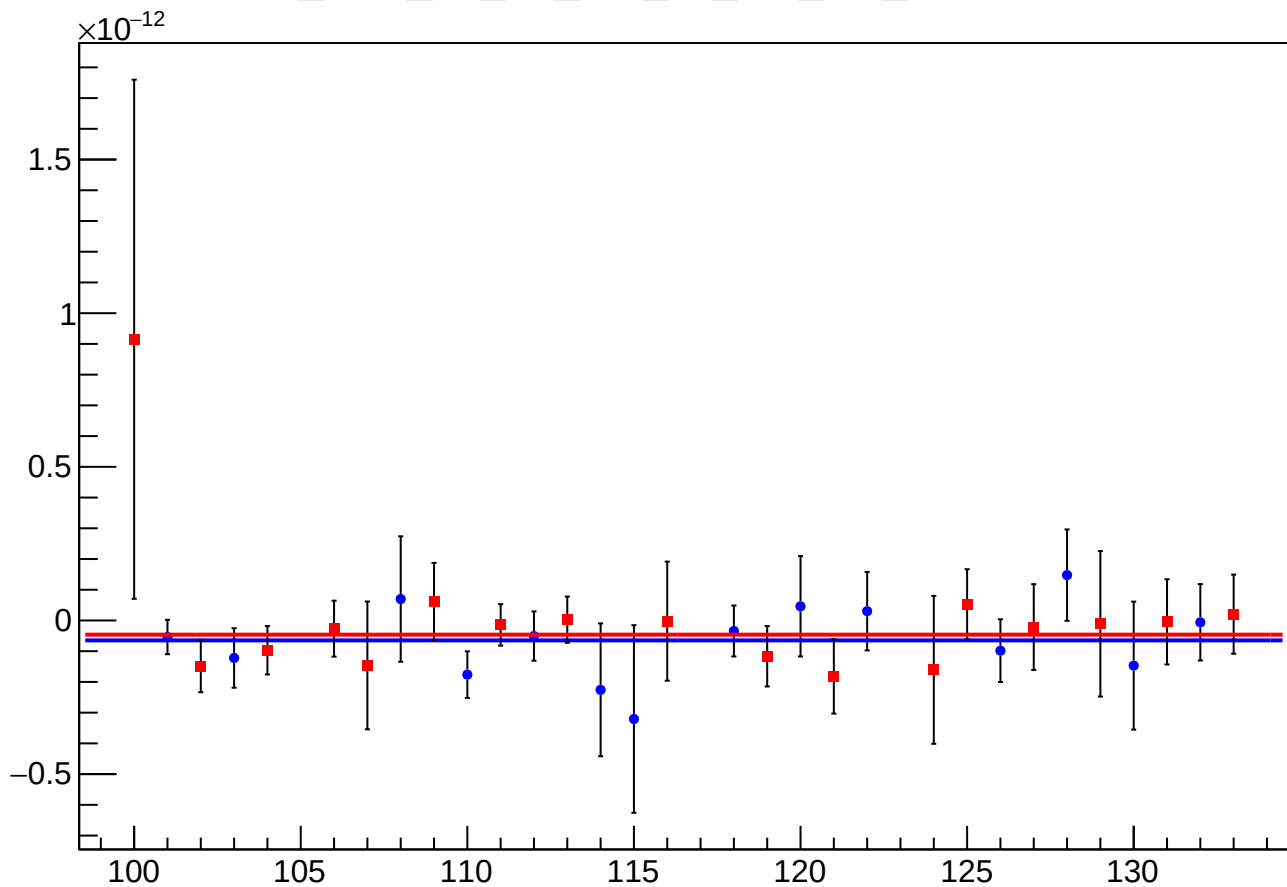
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1156.905 $\pm$ 0.237  $\chi^2$ /NDF: 1446302.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_48\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 8.0/16

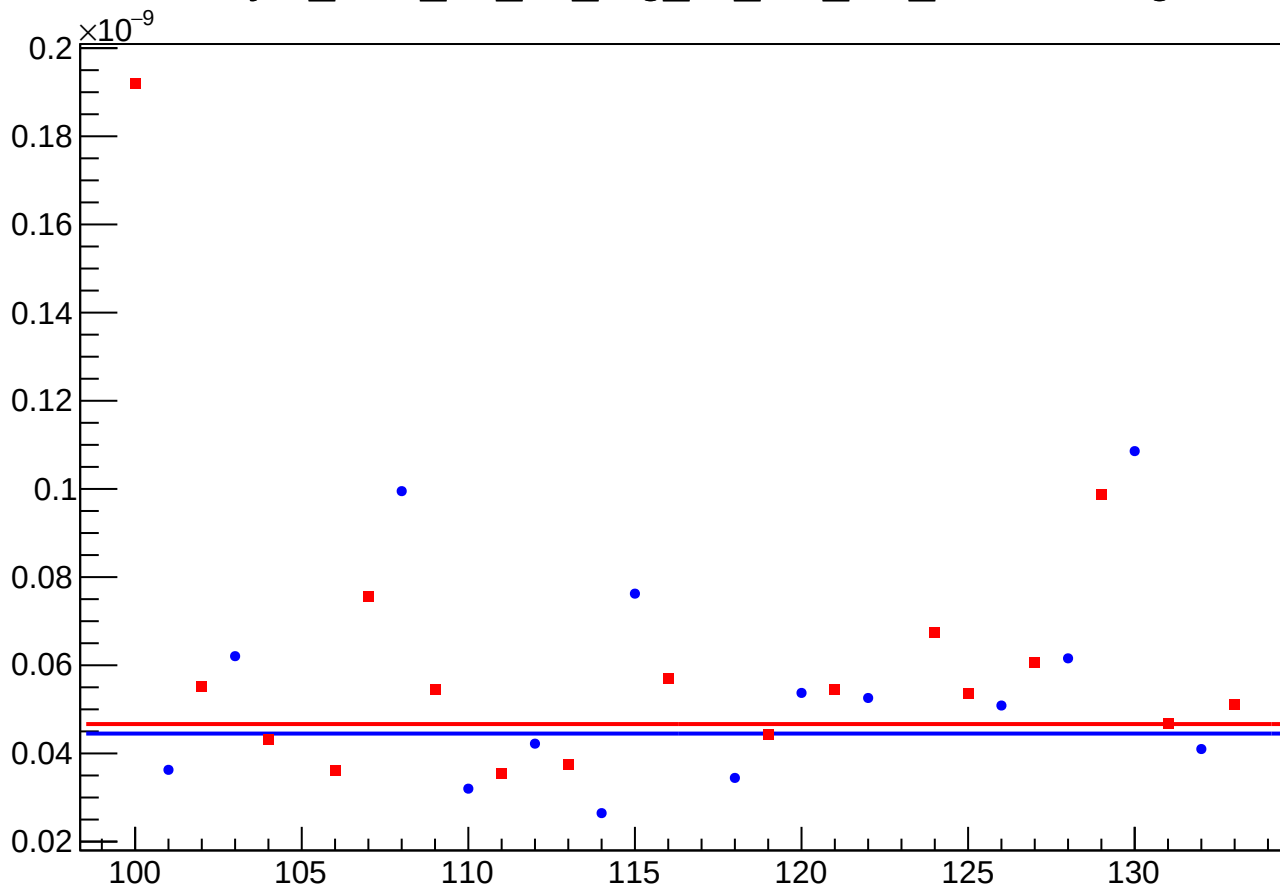
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 614541.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 397522.6/16

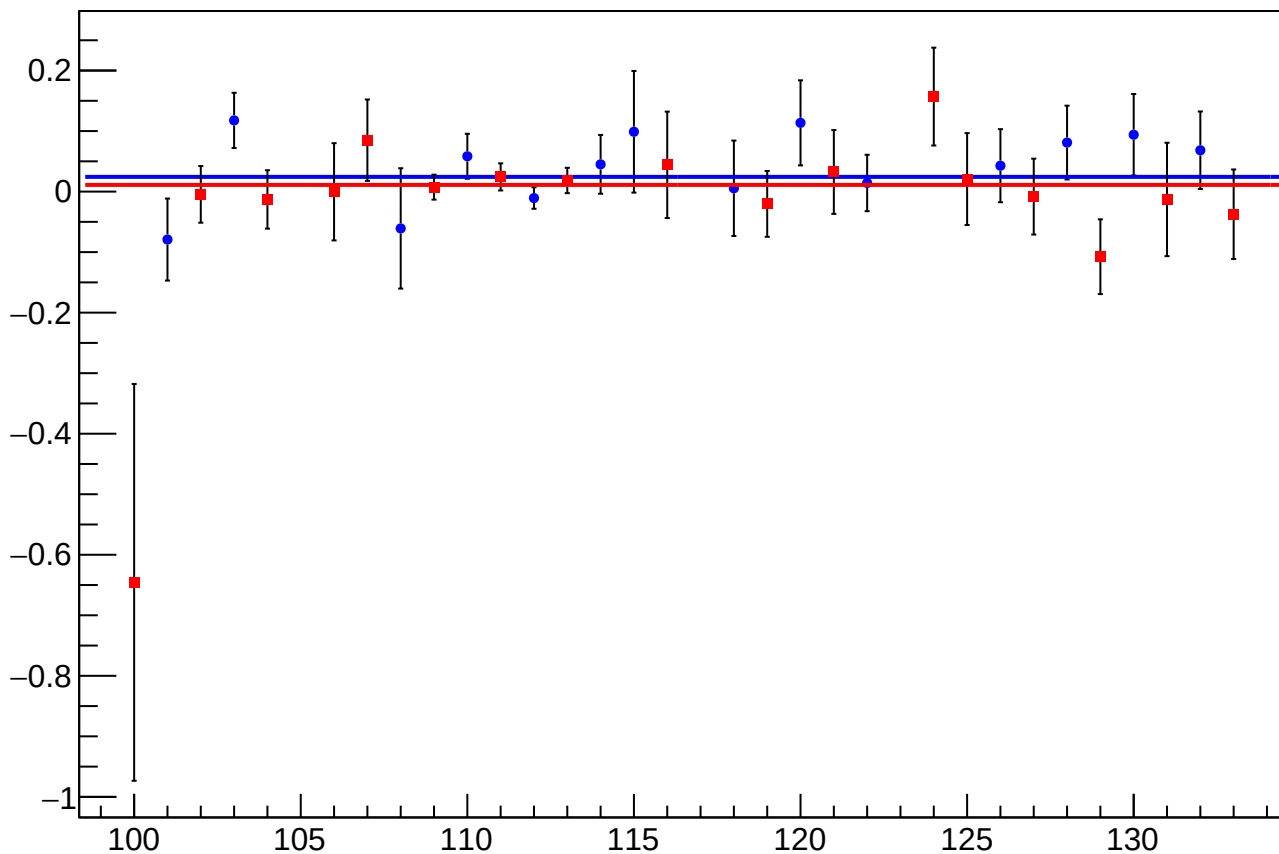
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1018252.5/30

- 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: 0.024 $\pm$ 0.012  $\chi^2$ /NDF: 16.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.011 $\pm$ 0.010  $\chi^2$ /NDF: 14.2/16

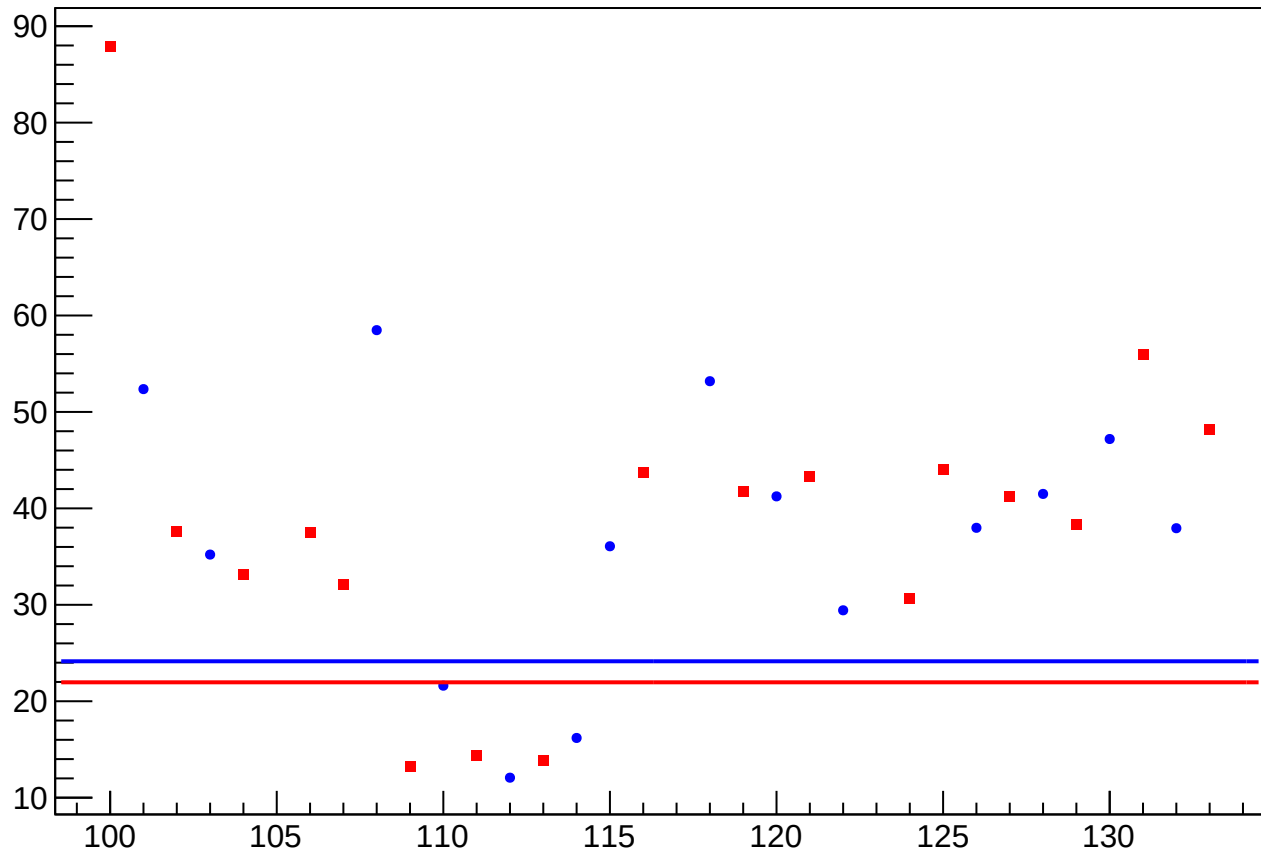
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.017 $\pm$ 0.008  $\chi^2$ /NDF: 31.9/30

- 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: 24.145+/-0.008  $\chi^2/\text{NDF}$ : 2731069.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.963+/-0.007  $\chi^2/\text{NDF}$ : 3031706.7/16

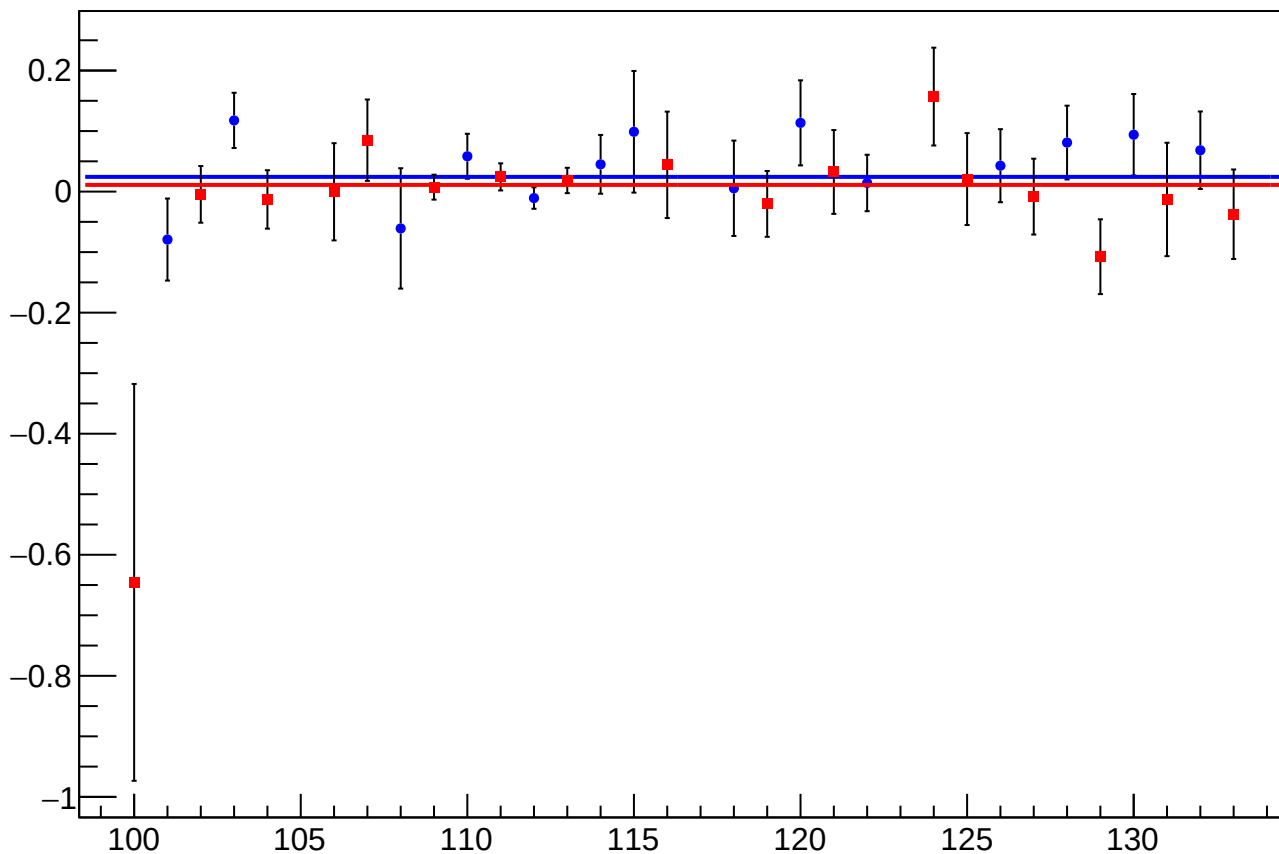
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.881+/-0.005  $\chi^2/\text{NDF}$ : 5801699.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.024+/-0.012  $\chi^2/\text{NDF}$ : 16.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.010  $\chi^2/\text{NDF}$ : 14.2/16

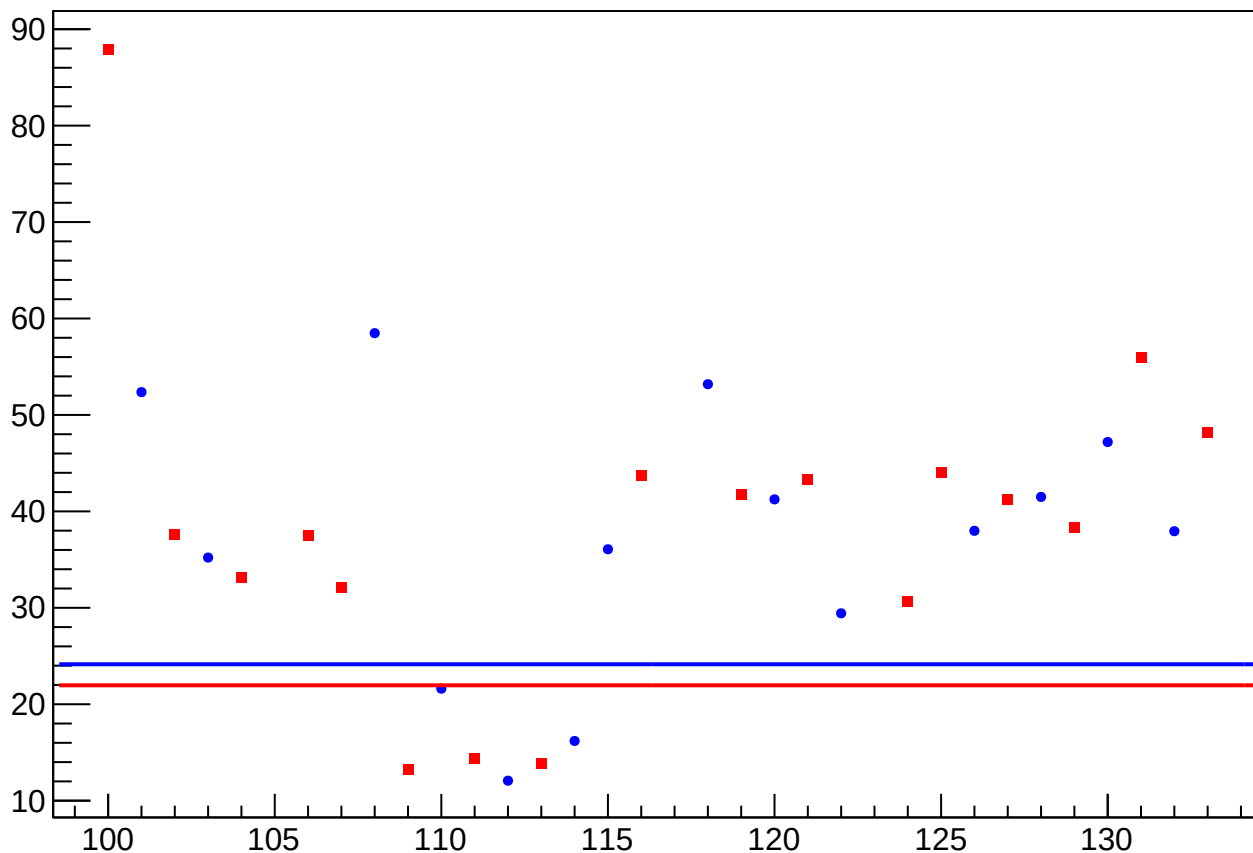
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.017+/-0.008  $\chi^2/\text{NDF}$ : 31.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 24.145+/-0.008  $\chi^2/\text{NDF}$ : 2731069.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.963+/-0.007  $\chi^2/\text{NDF}$ : 3031706.7/16

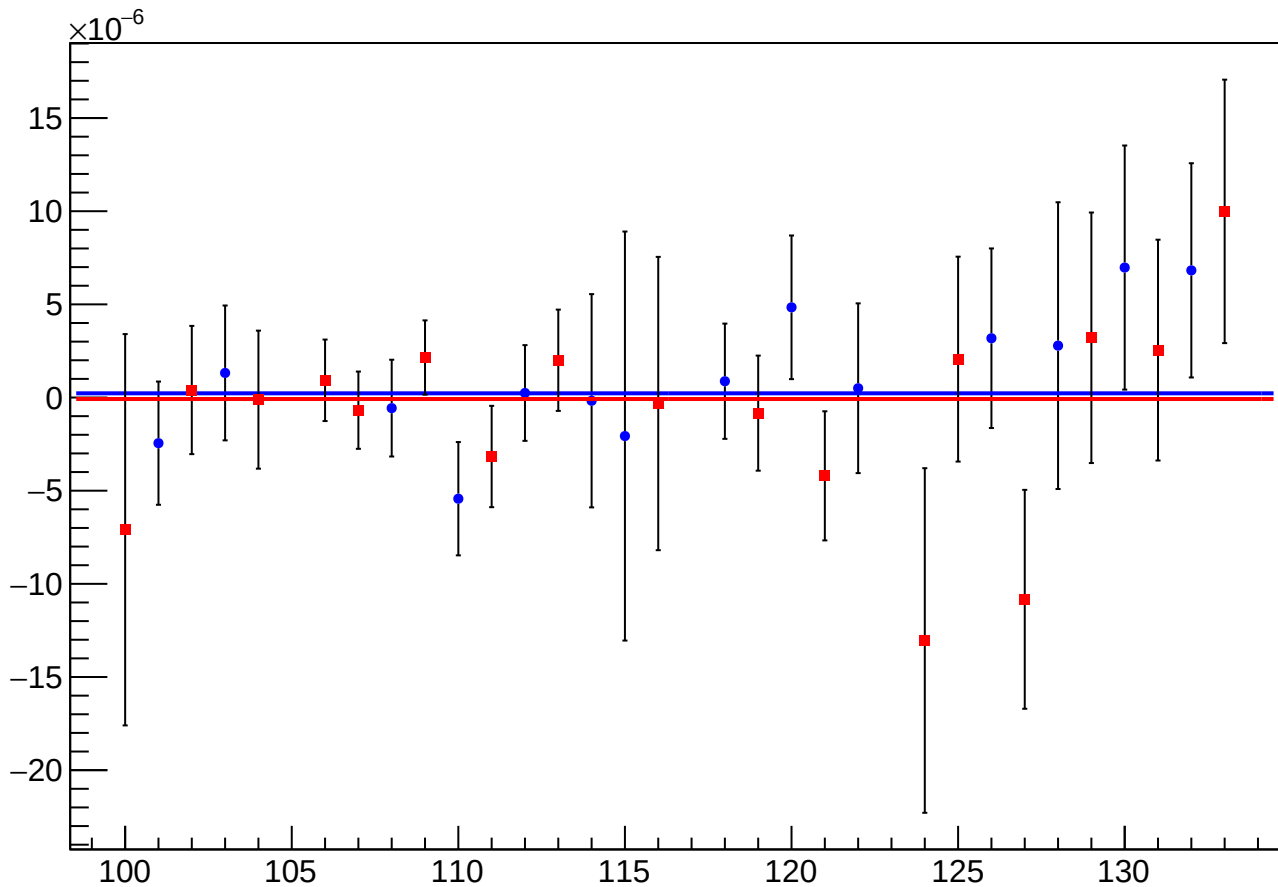
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.881+/-0.005  $\chi^2/\text{NDF}$ : 5801699.9/30

- 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  $\chi^2/\text{NDF}$ : 8.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.3/16

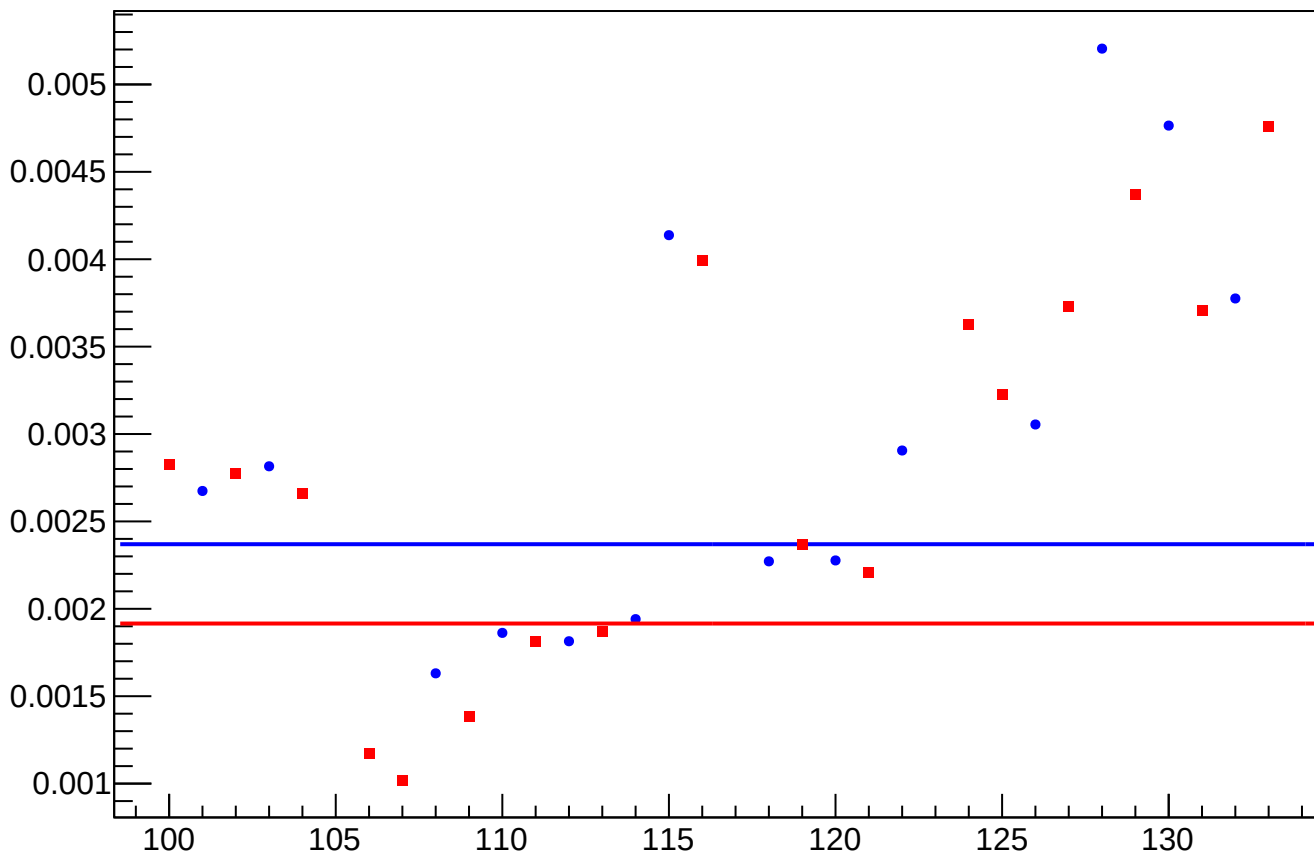
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 22.0/30

- 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  $\chi^2/\text{NDF}$ : 1151161.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2314789.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

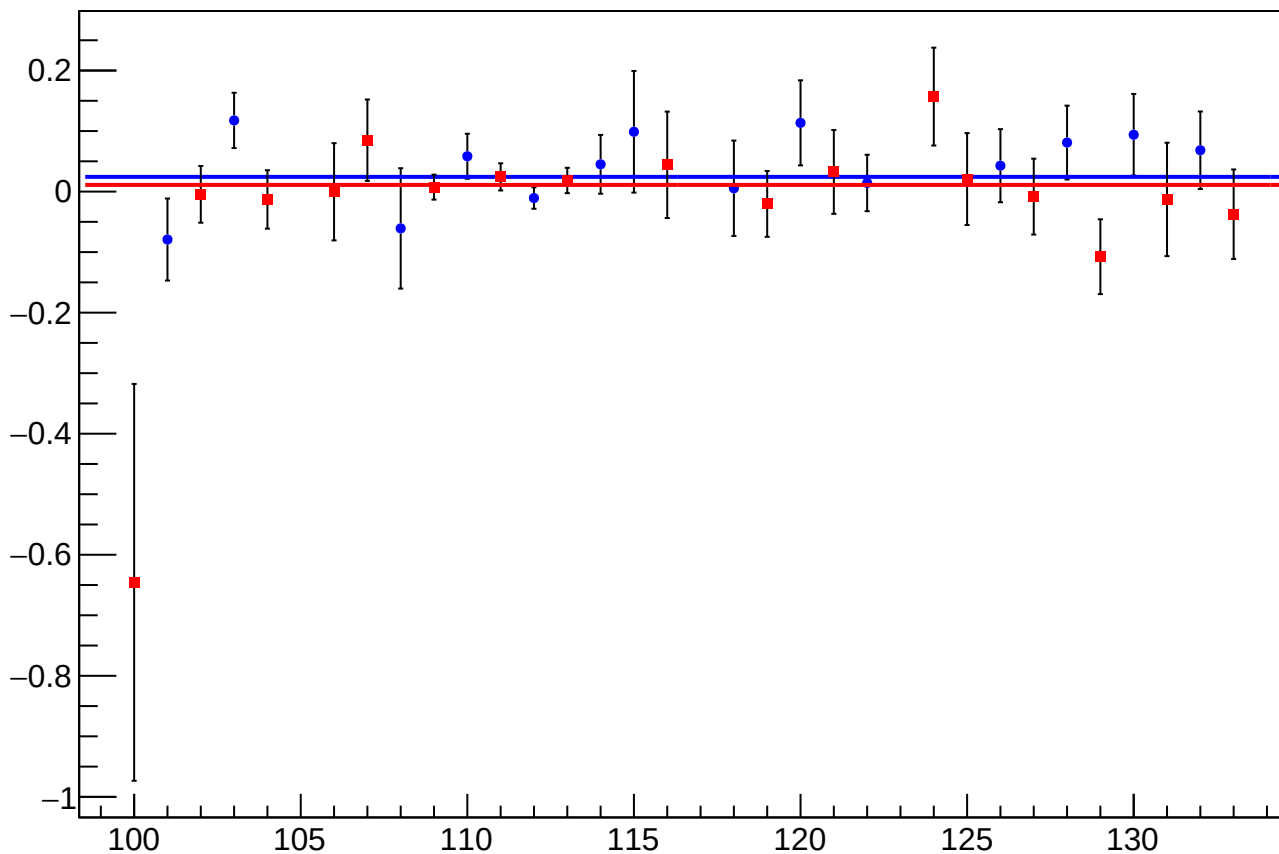
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3703938.5/30

- 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: 0.024+/-0.012  $\chi^2/\text{NDF}$ : 16.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.010  $\chi^2/\text{NDF}$ : 14.2/16

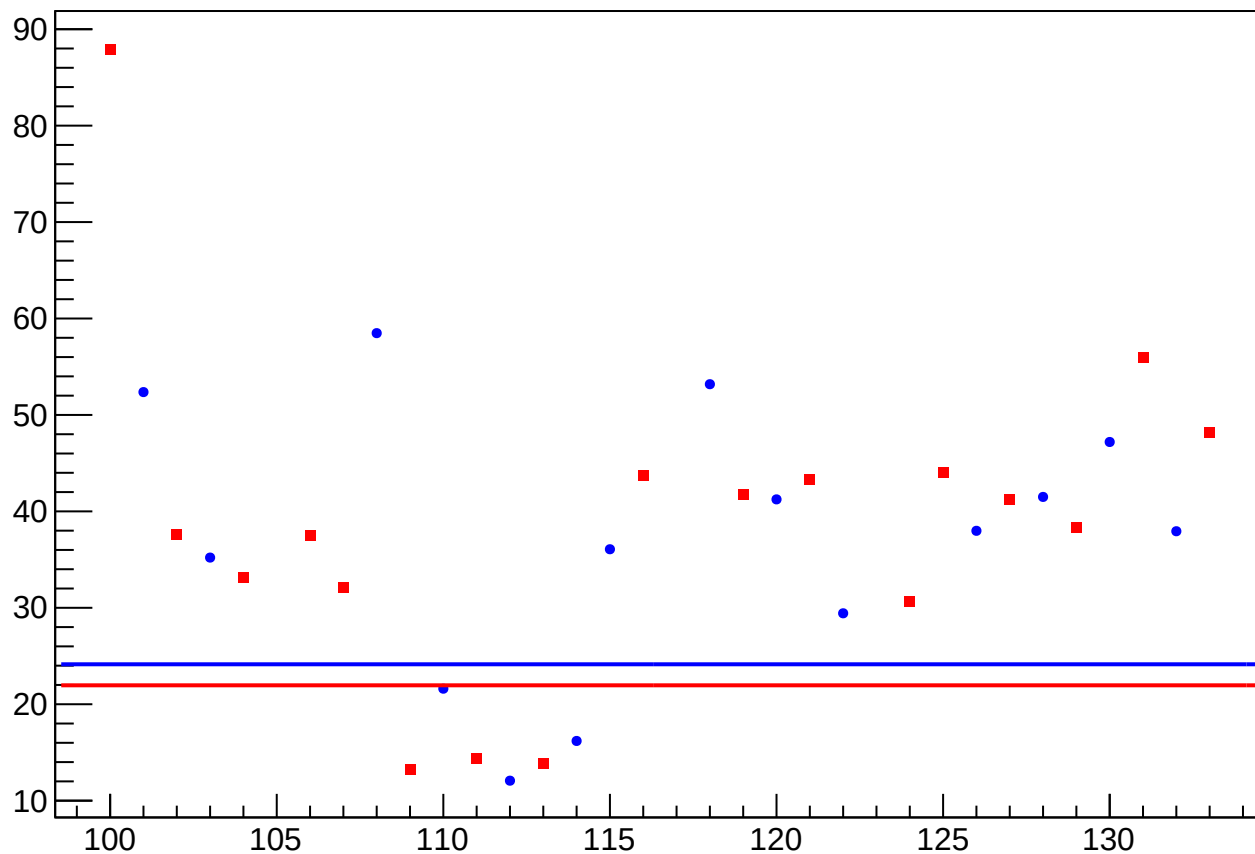
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.017+/-0.008  $\chi^2/\text{NDF}$ : 31.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 24.143+/-0.008  $\chi^2/\text{NDF}$ : 2731419.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.962+/-0.007  $\chi^2/\text{NDF}$ : 3031827.0/16

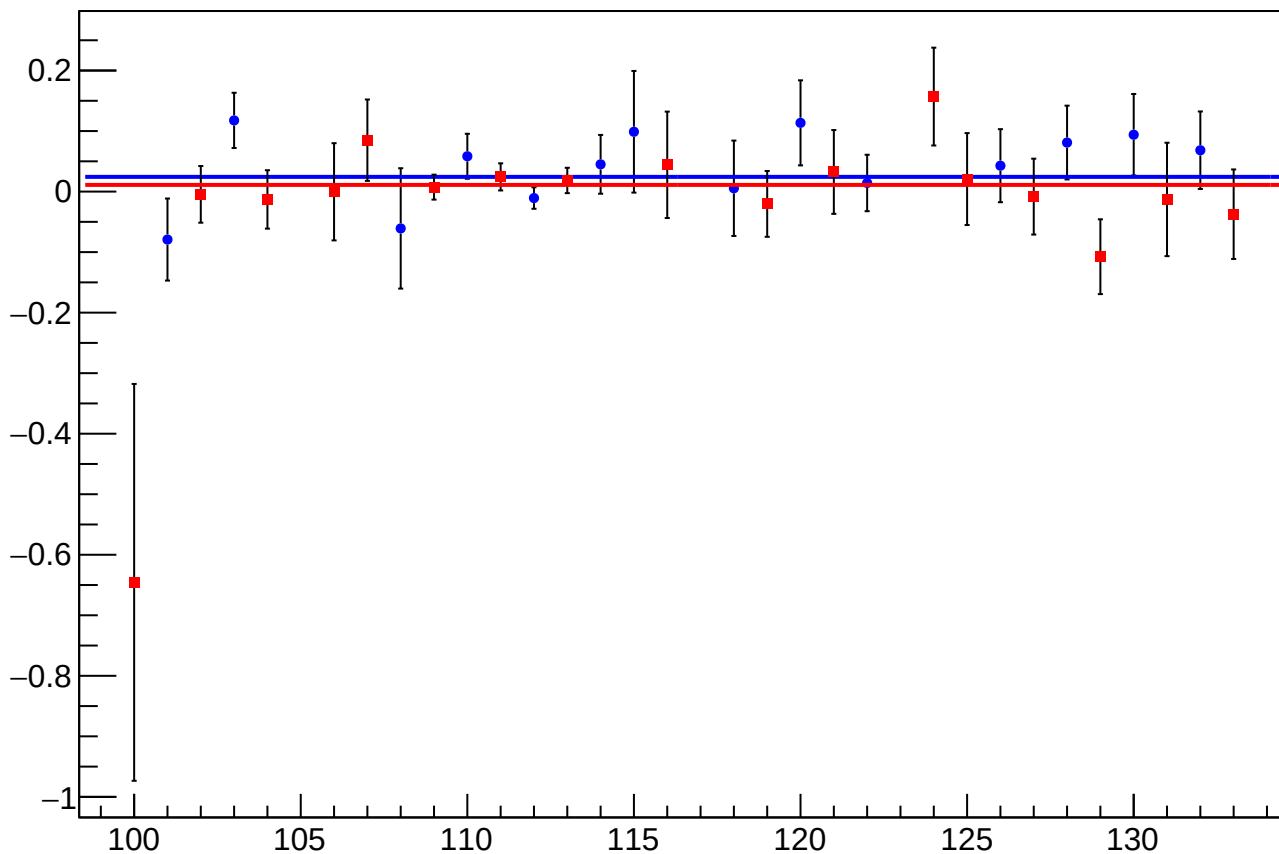
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.880+/-0.005  $\chi^2/\text{NDF}$ : 5802131.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.024 $\pm$ 0.012  $\chi^2$ /NDF: 16.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.011 $\pm$ 0.010  $\chi^2$ /NDF: 14.2/16

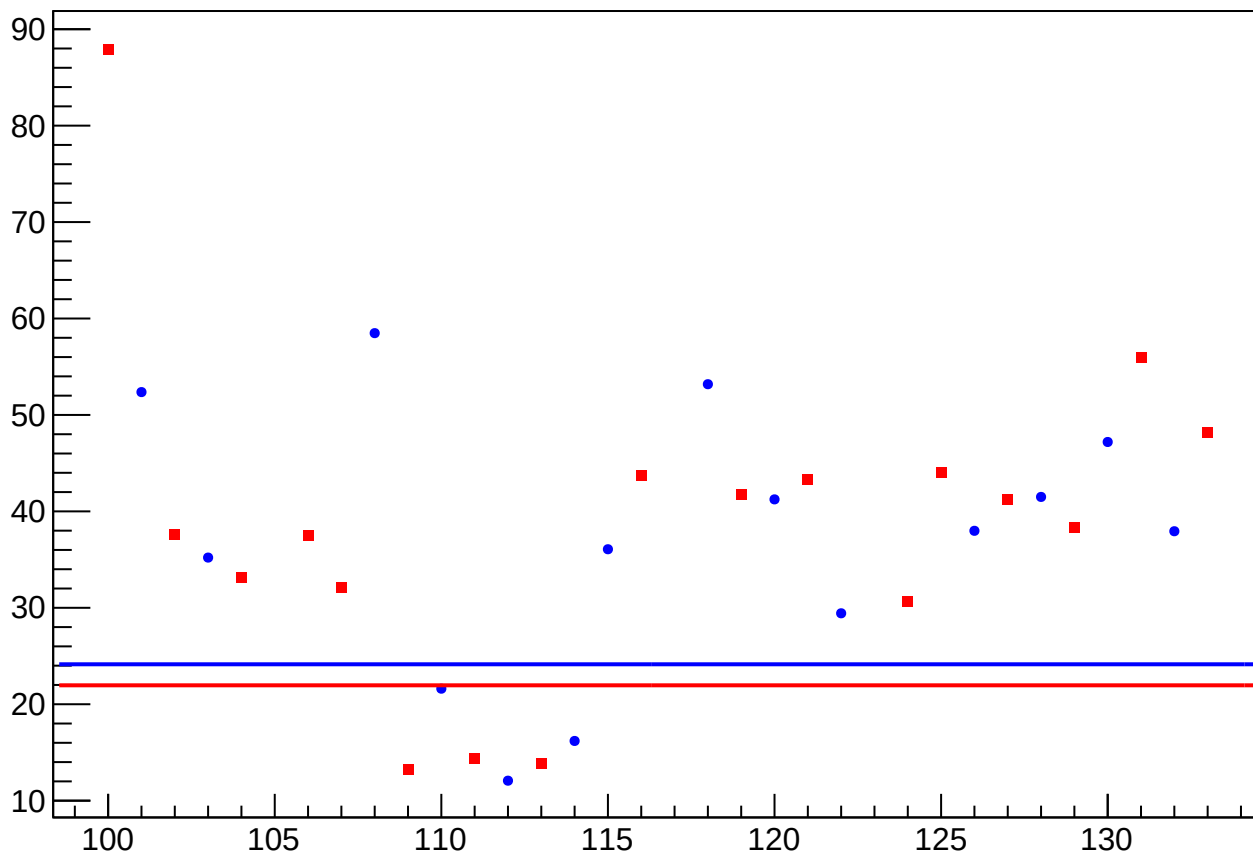
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.017 $\pm$ 0.008  $\chi^2$ /NDF: 31.9/30

- 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: 24.143+/-0.008  $\chi^2/\text{NDF}$ : 2731419.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.962+/-0.007  $\chi^2/\text{NDF}$ : 3031827.0/16

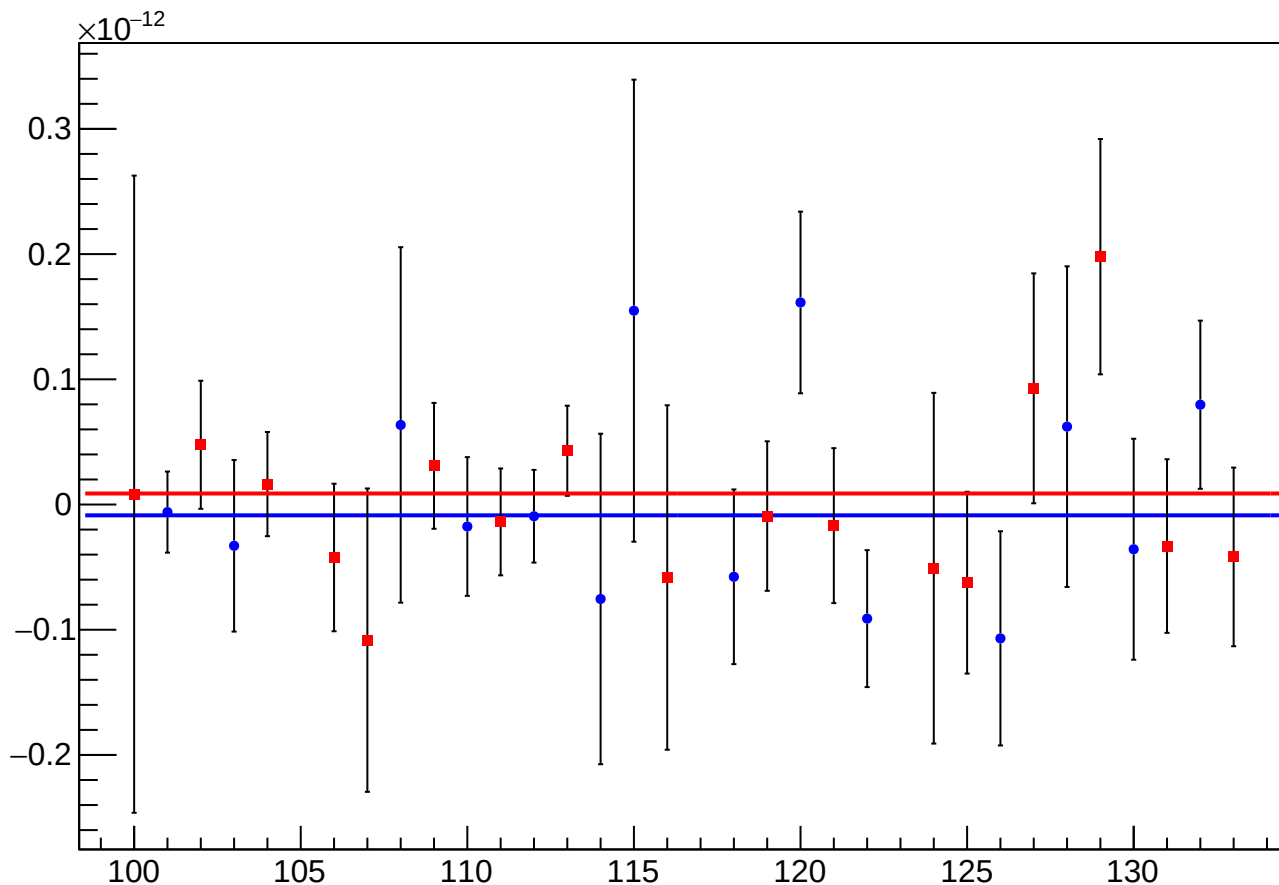
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.880+/-0.005  $\chi^2/\text{NDF}$ : 5802131.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 13.2/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 11.1/16

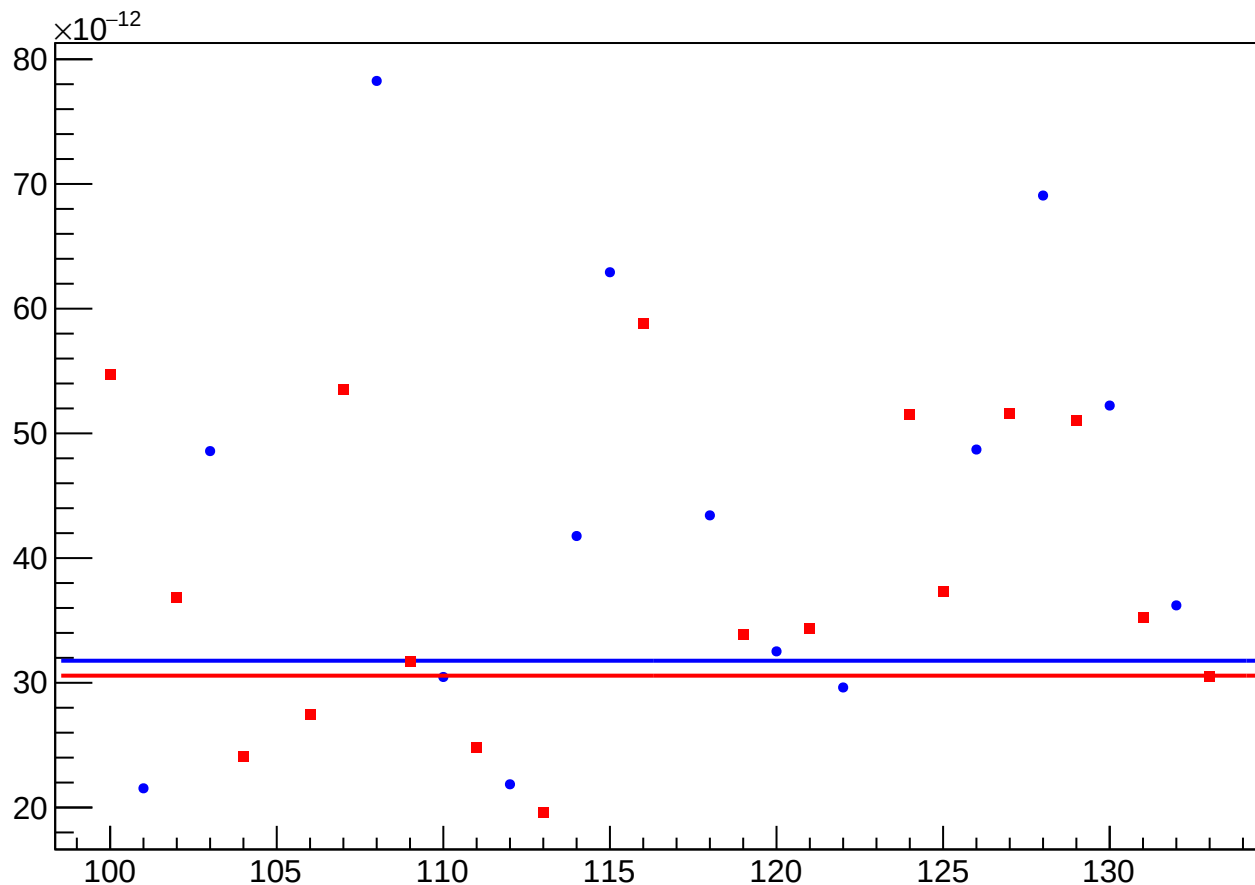
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 24.9/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1170916.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 766812.5/16

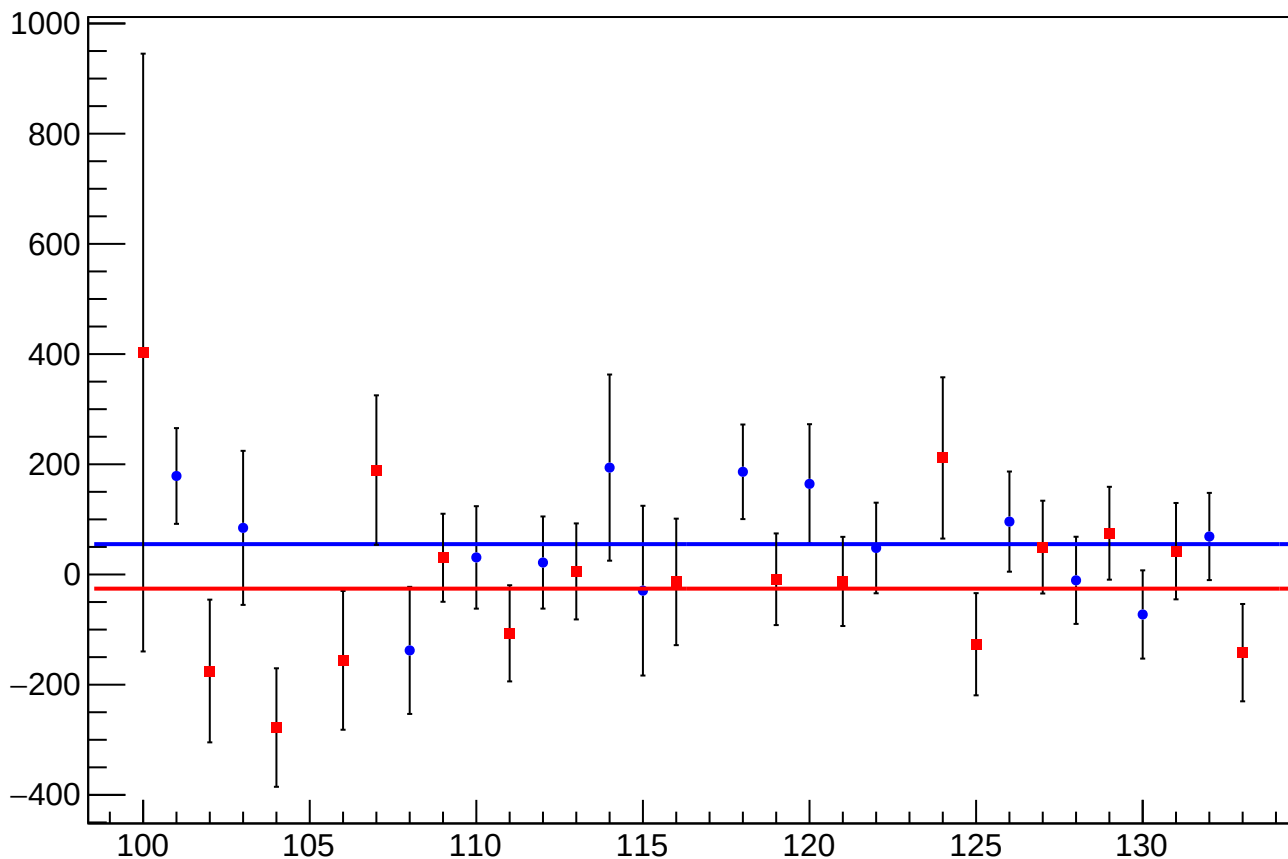
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1943505.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 55.091+/-25.317  $\chi^2/\text{NDF}$ : 12.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -25.686+/-23.812  $\chi^2/\text{NDF}$ : 21.0/16

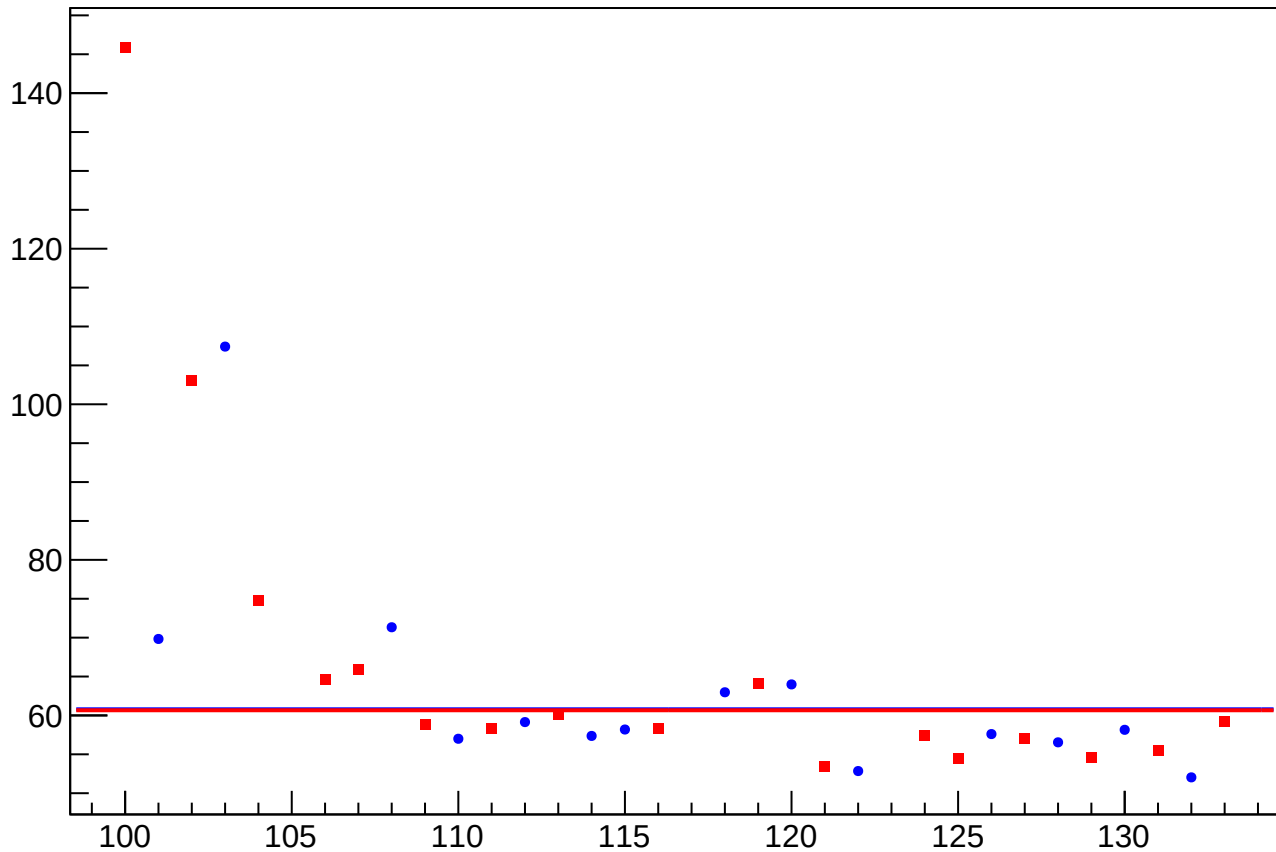
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12.231+/-17.345  $\chi^2/\text{NDF}$ : 39.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 60.786+/-0.018  $\chi^2/\text{NDF}$ : 322963.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 60.665+/-0.017  $\chi^2/\text{NDF}$ : 357751.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

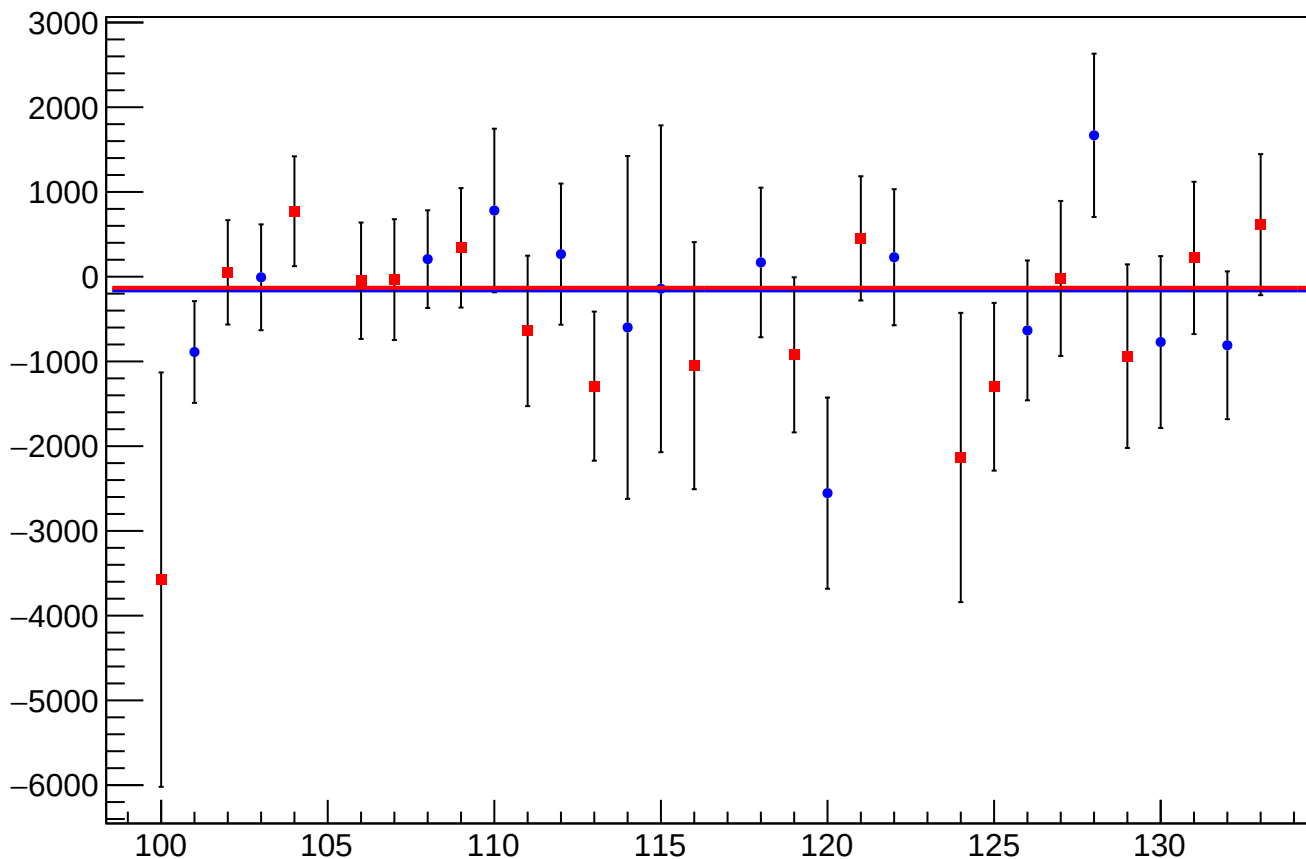
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 60.722+/-0.012  $\chi^2/\text{NDF}$ : 680738.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_13\_57\_dd\_reg\_correction\_mean vs Slug



Right In: -161.630 $\pm$ 224.579  $\chi^2$ /NDF: 12.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -130.461 $\pm$ 206.450  $\chi^2$ /NDF: 12.6/16

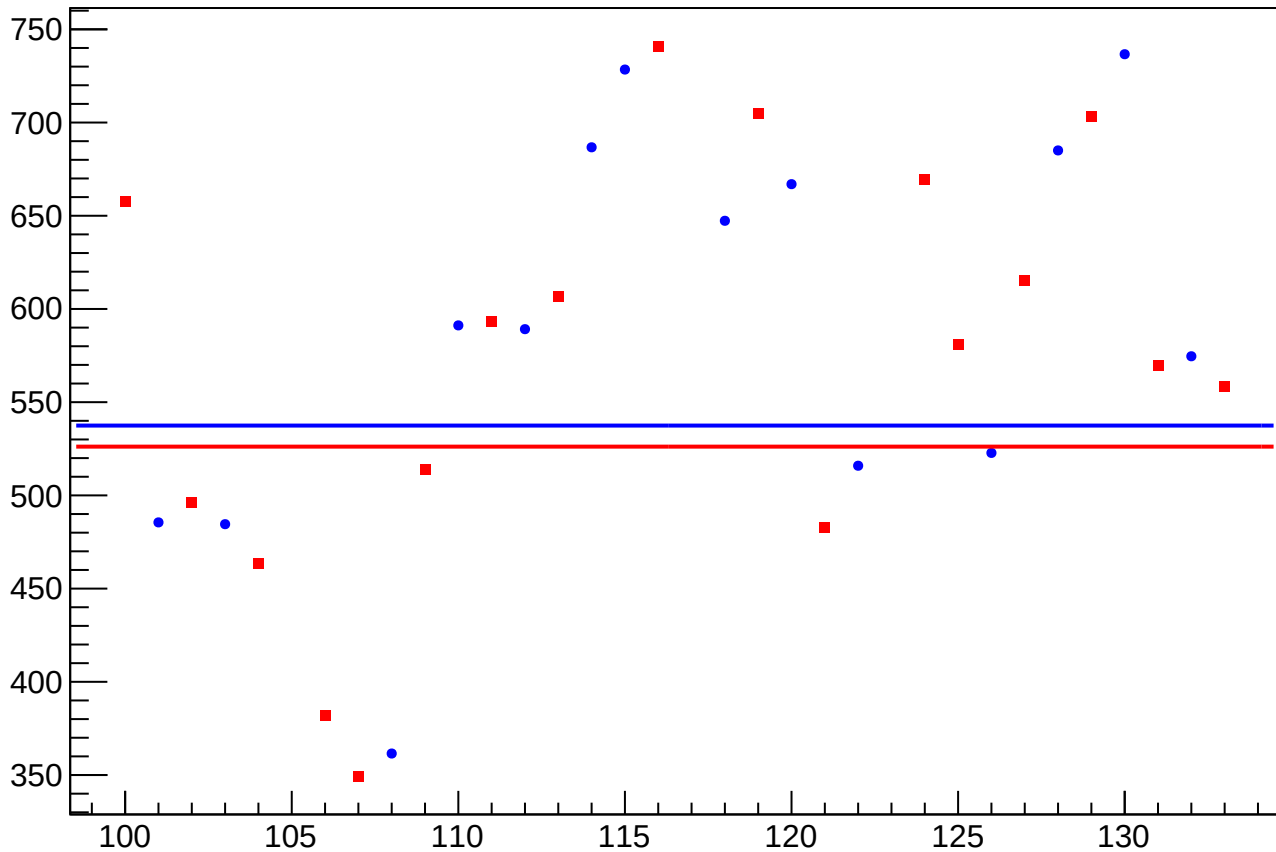
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -144.737 $\pm$ 151.988  $\chi^2$ /NDF: 25.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_reg\_correction\_rms vs Slug



Right In: 537.452+/-0.159  $\chi^2/\text{NDF}$ : 447216.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 526.156+/-0.146  $\chi^2/\text{NDF}$ : 496628.9/16

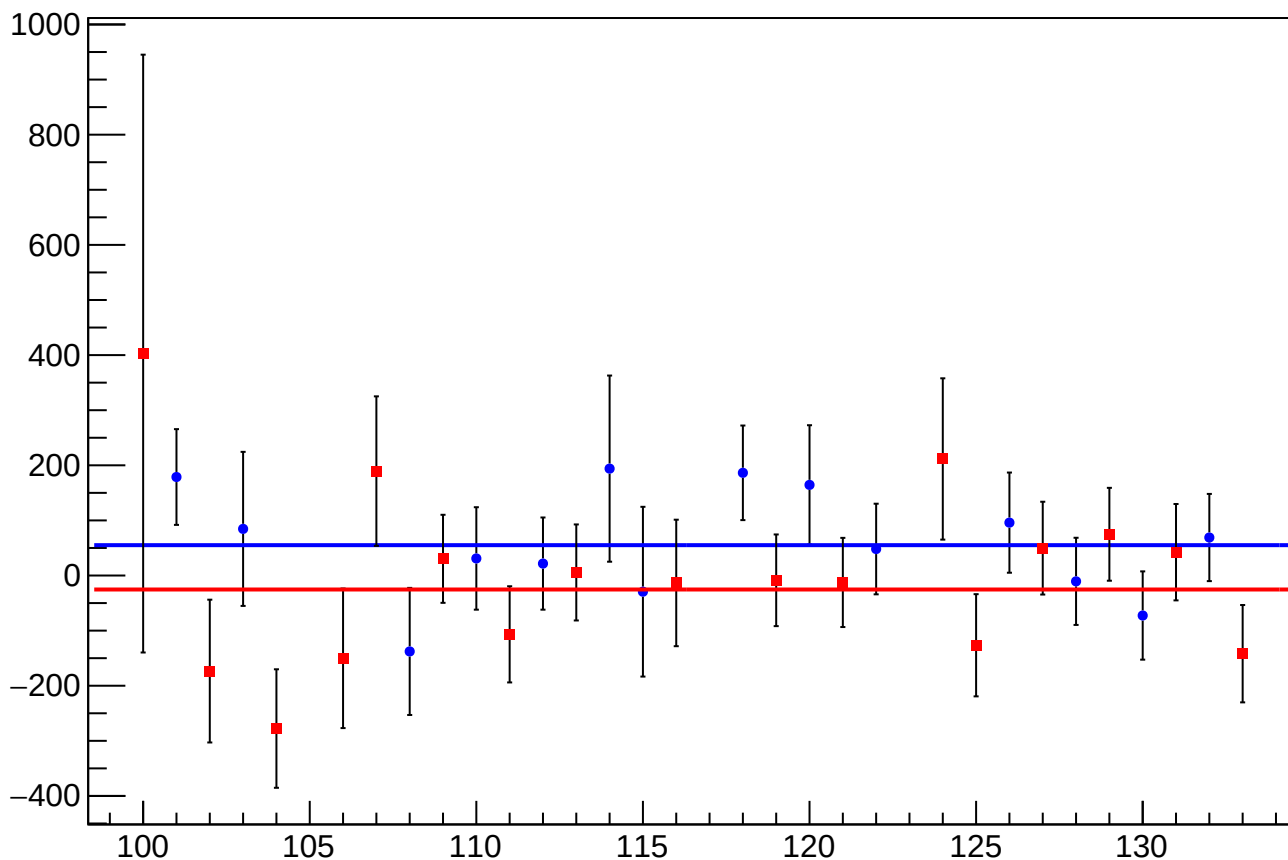
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 531.330+/-0.107  $\chi^2/\text{NDF}$ : 946587.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 55.092+/-25.317  $\chi^2/\text{NDF}$ : 12.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -25.371+/-23.817  $\chi^2/\text{NDF}$ : 20.8/16

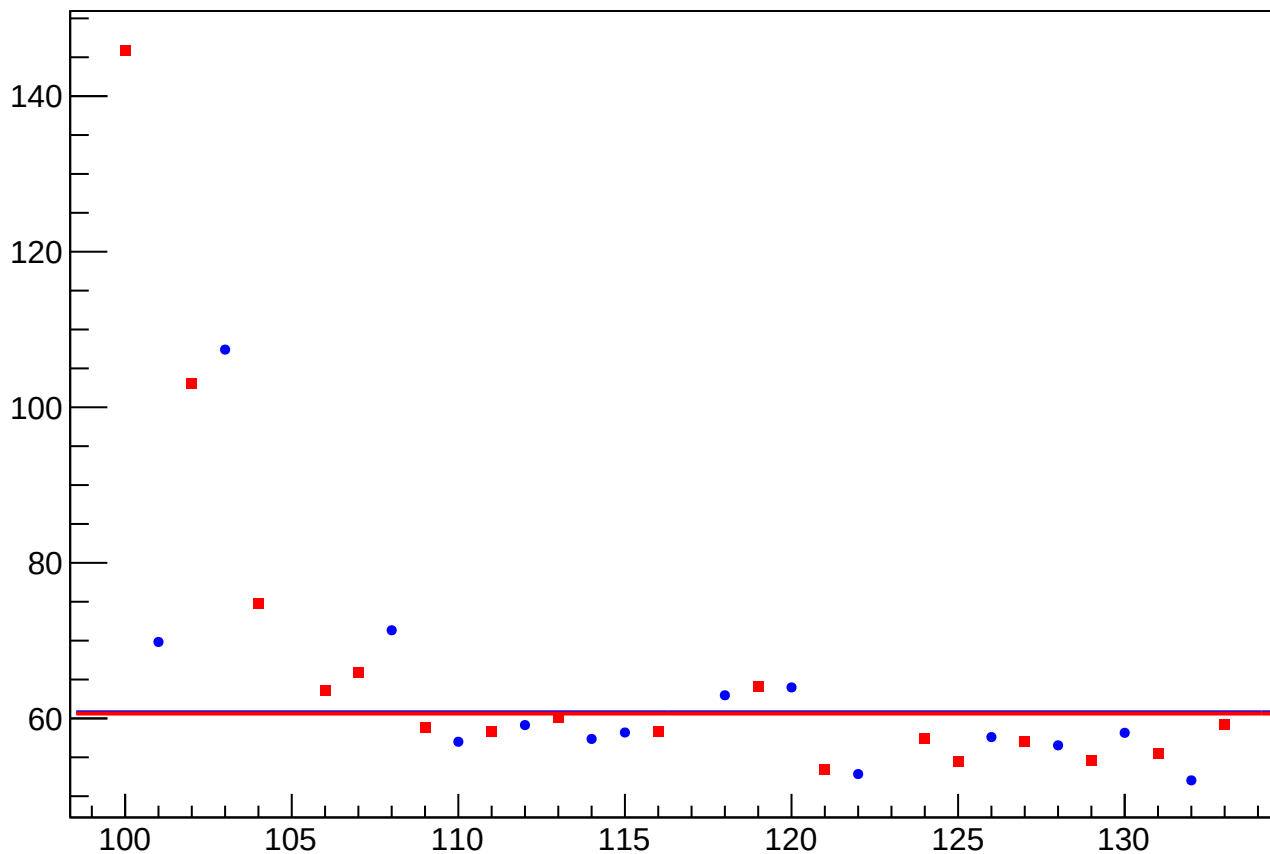
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12.407+/-17.347  $\chi^2/\text{NDF}$ : 39.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 60.786+/-0.018  $\chi^2$ /NDF: 322965.5/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 60.628+/-0.017  $\chi^2$ /NDF: 357106.8/16

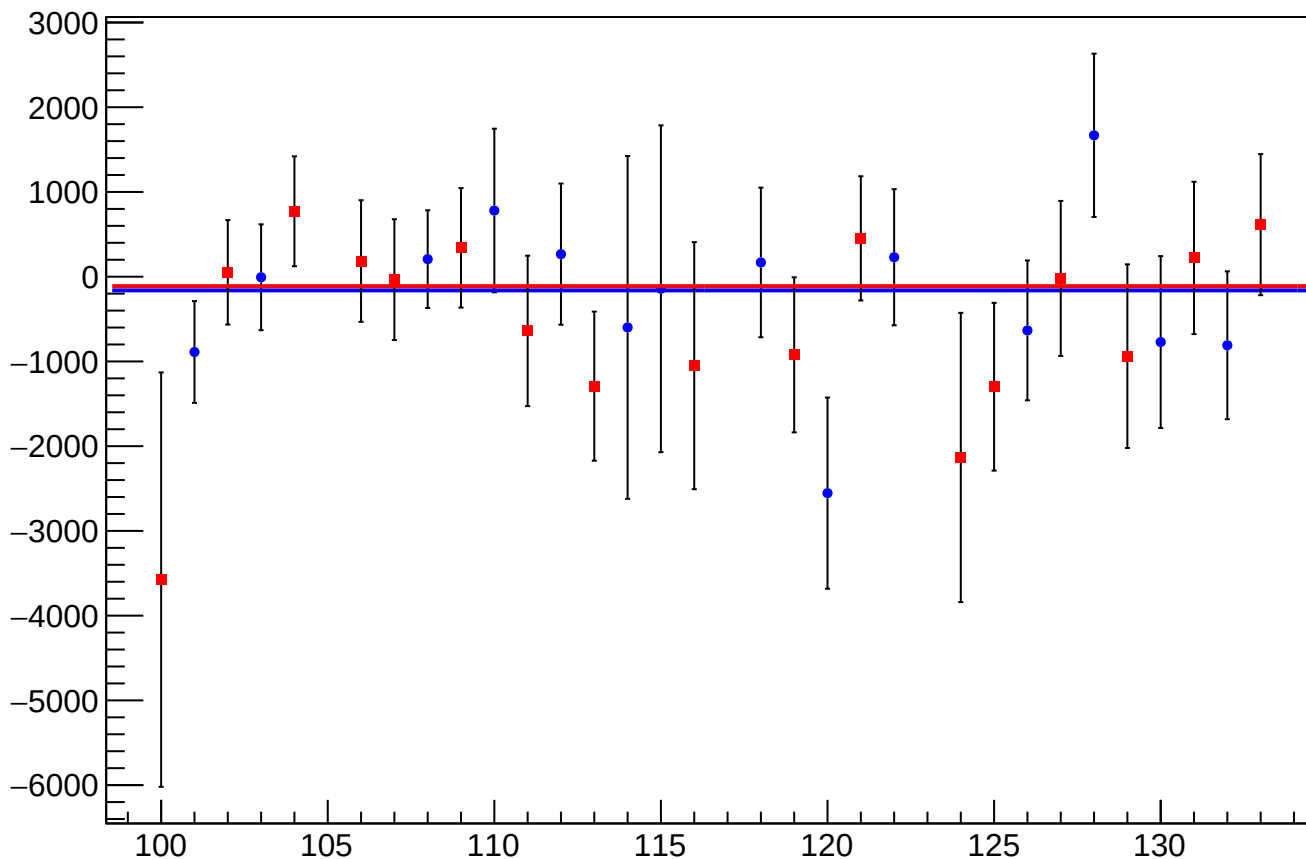
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 60.702+/-0.012  $\chi^2$ /NDF: 680113.3/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_cor\_correction\_mean vs Slug



Right In: -161.568 $\pm$ 224.581  $\chi^2$ /NDF: 12.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -111.730 $\pm$ 207.262  $\chi^2$ /NDF: 12.8/16

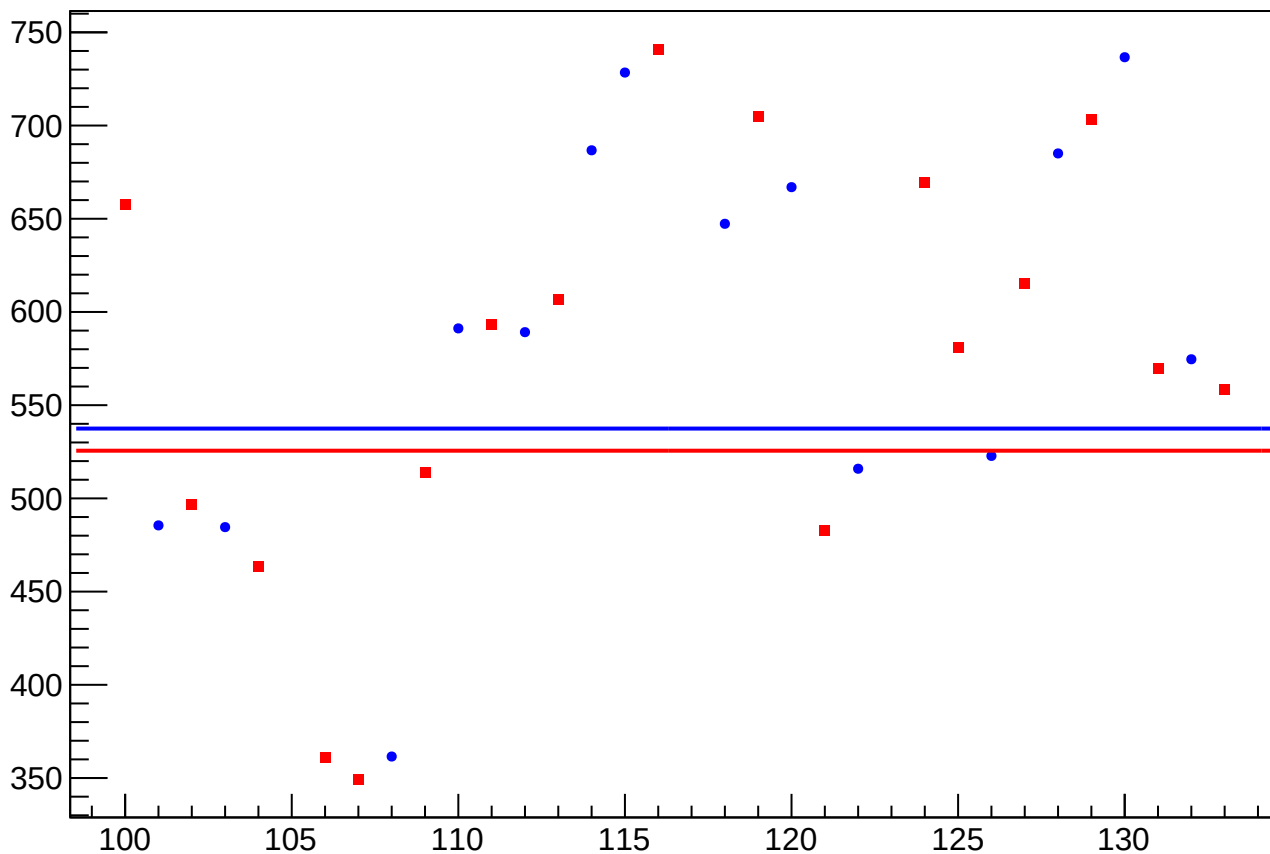
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -134.654 $\pm$ 152.312  $\chi^2$ /NDF: 25.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_cor\_correction\_rms vs Slug



Right In: 537.457+/-0.159  $\chi^2/\text{NDF}$ : 447197.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 525.579+/-0.147  $\chi^2/\text{NDF}$ : 514177.5/16

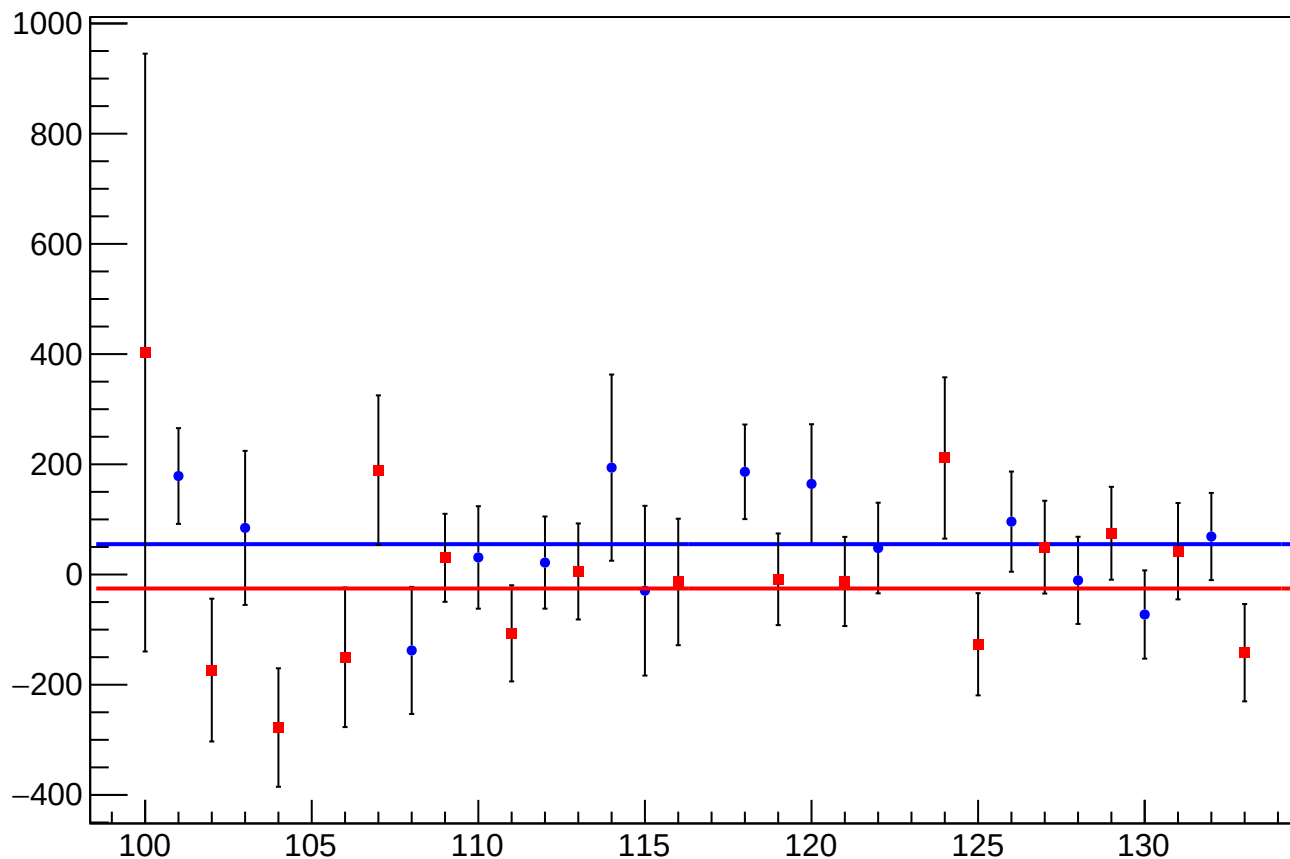
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 531.042+/-0.108  $\chi^2/\text{NDF}$ : 964396.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 55.092 $\pm$ 25.317  $\chi^2$ /NDF: 12.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -25.371 $\pm$ 23.817  $\chi^2$ /NDF: 20.8/16

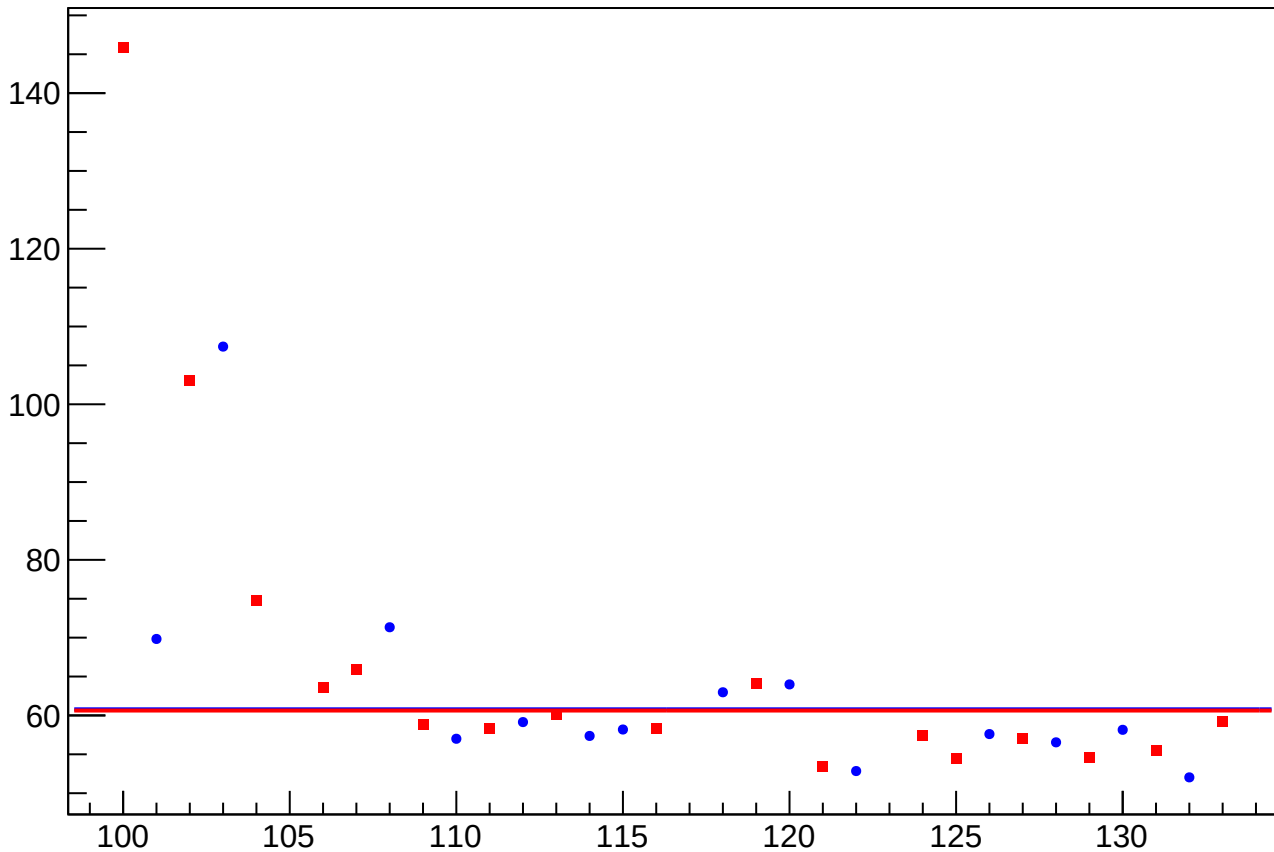
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12.407 $\pm$ 17.347  $\chi^2$ /NDF: 39.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 60.786+/-0.018  $\chi^2/\text{NDF}$ : 322965.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 60.628+/-0.017  $\chi^2/\text{NDF}$ : 357106.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

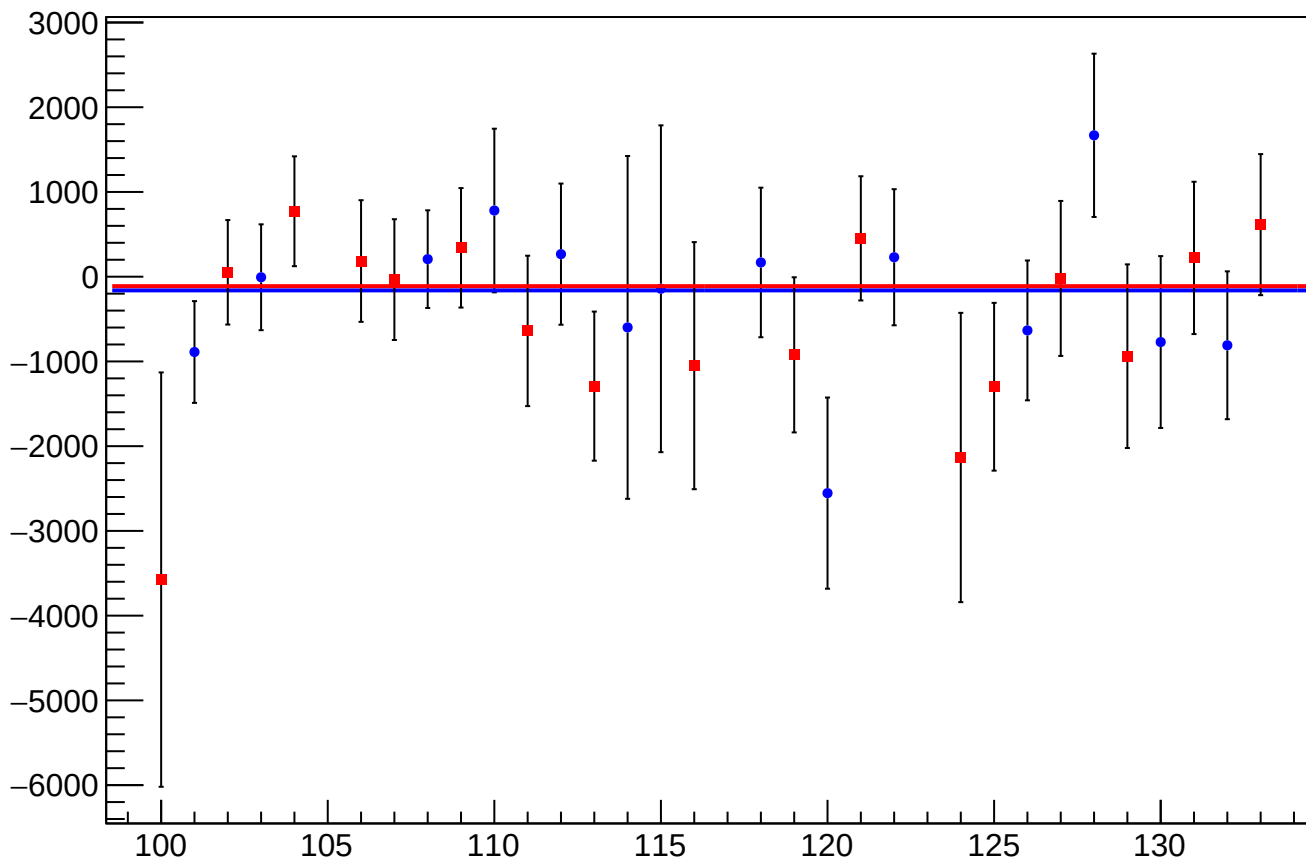
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 60.702+/-0.012  $\chi^2/\text{NDF}$ : 680113.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_13\_57\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: -161.568 $\pm$ 224.581  $\chi^2$ /NDF: 12.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -111.730 $\pm$ 207.262  $\chi^2$ /NDF: 12.8/16

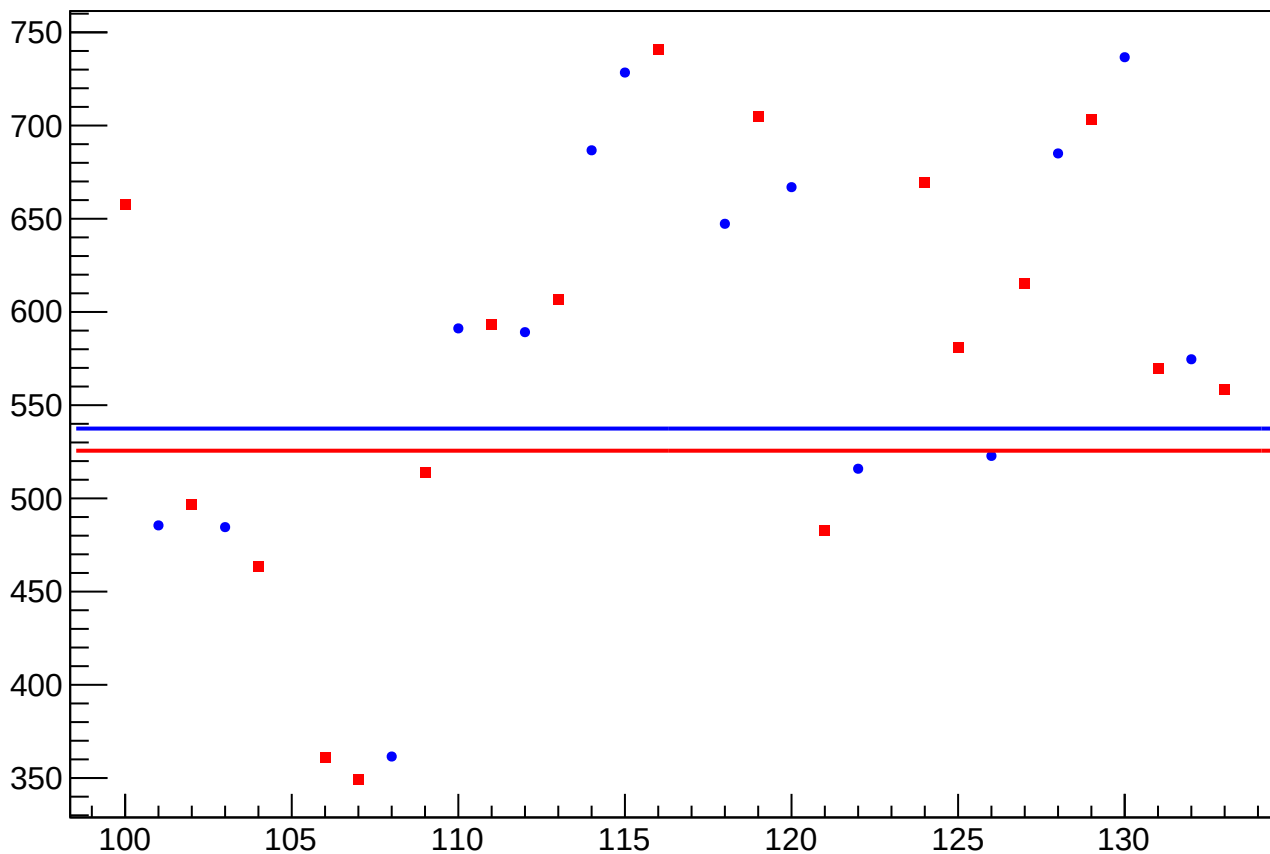
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -134.654 $\pm$ 152.312  $\chi^2$ /NDF: 25.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 537.457+/-0.159  $\chi^2/\text{NDF}$ : 447197.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 525.579+/-0.147  $\chi^2/\text{NDF}$ : 514177.5/16

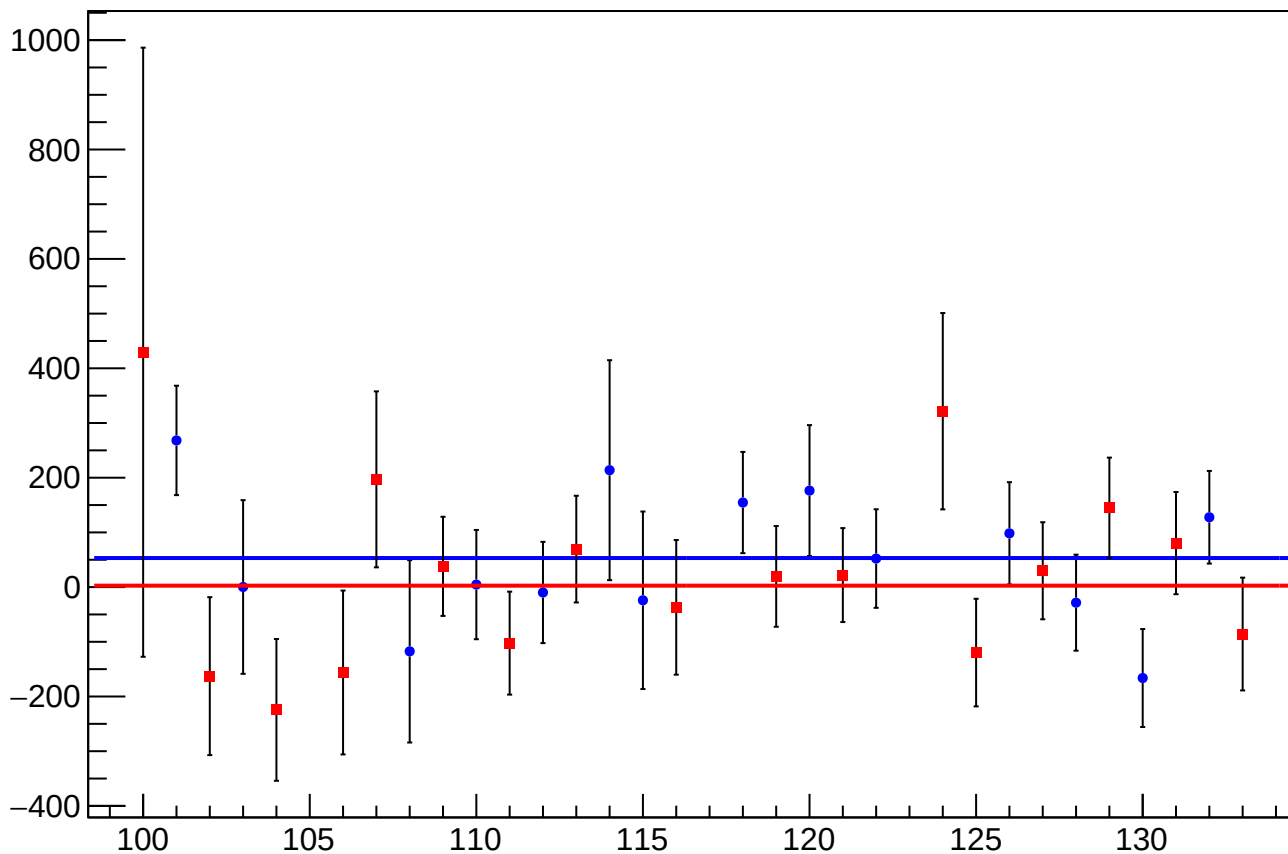
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 531.042+/-0.108  $\chi^2/\text{NDF}$ : 964396.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 53.150 $\pm$ 28.022  $\chi^2$ /NDF: 17.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.617 $\pm$ 26.337  $\chi^2$ /NDF: 18.2/16

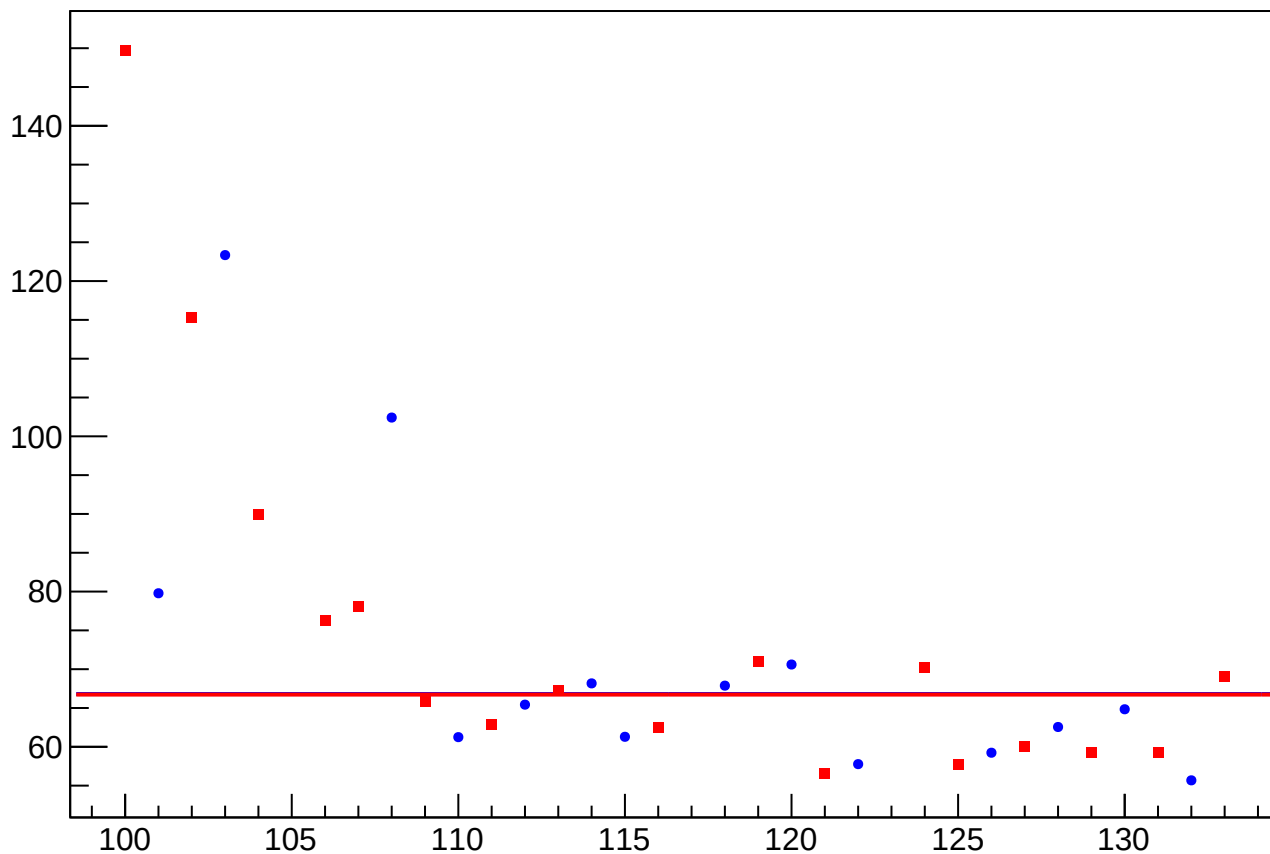
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 26.319 $\pm$ 19.191  $\chi^2$ /NDF: 37.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 66.799+/-0.020  $\chi^2/\text{NDF}$ : 463254.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 66.731+/-0.019  $\chi^2/\text{NDF}$ : 446856.0/16

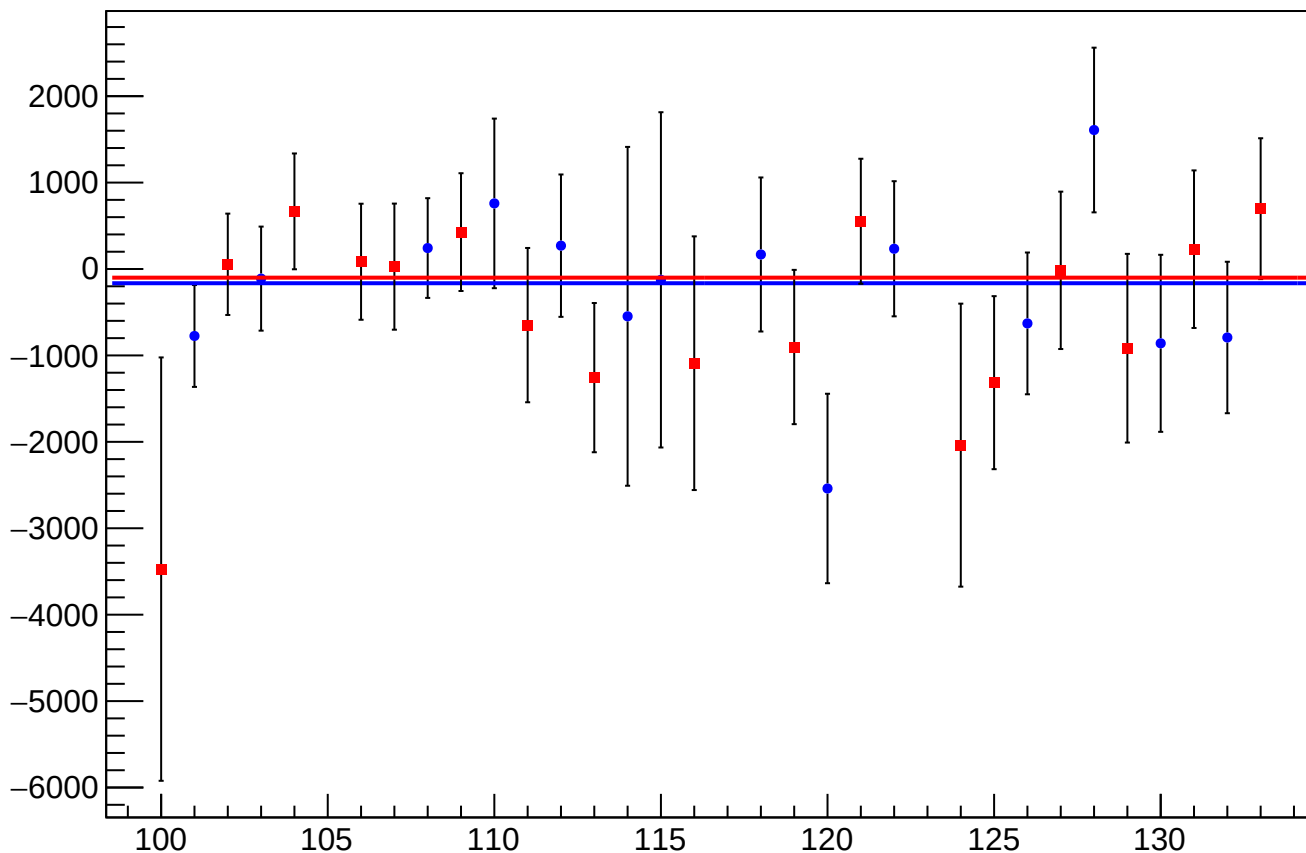
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.763+/-0.014  $\chi^2/\text{NDF}$ : 910116.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_dit\_correction\_mean vs Slug



Right In: -164.618 $\pm$ 222.220  $\chi^2$ /NDF: 12.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -100.120 $\pm$ 204.530  $\chi^2$ /NDF: 12.8/16

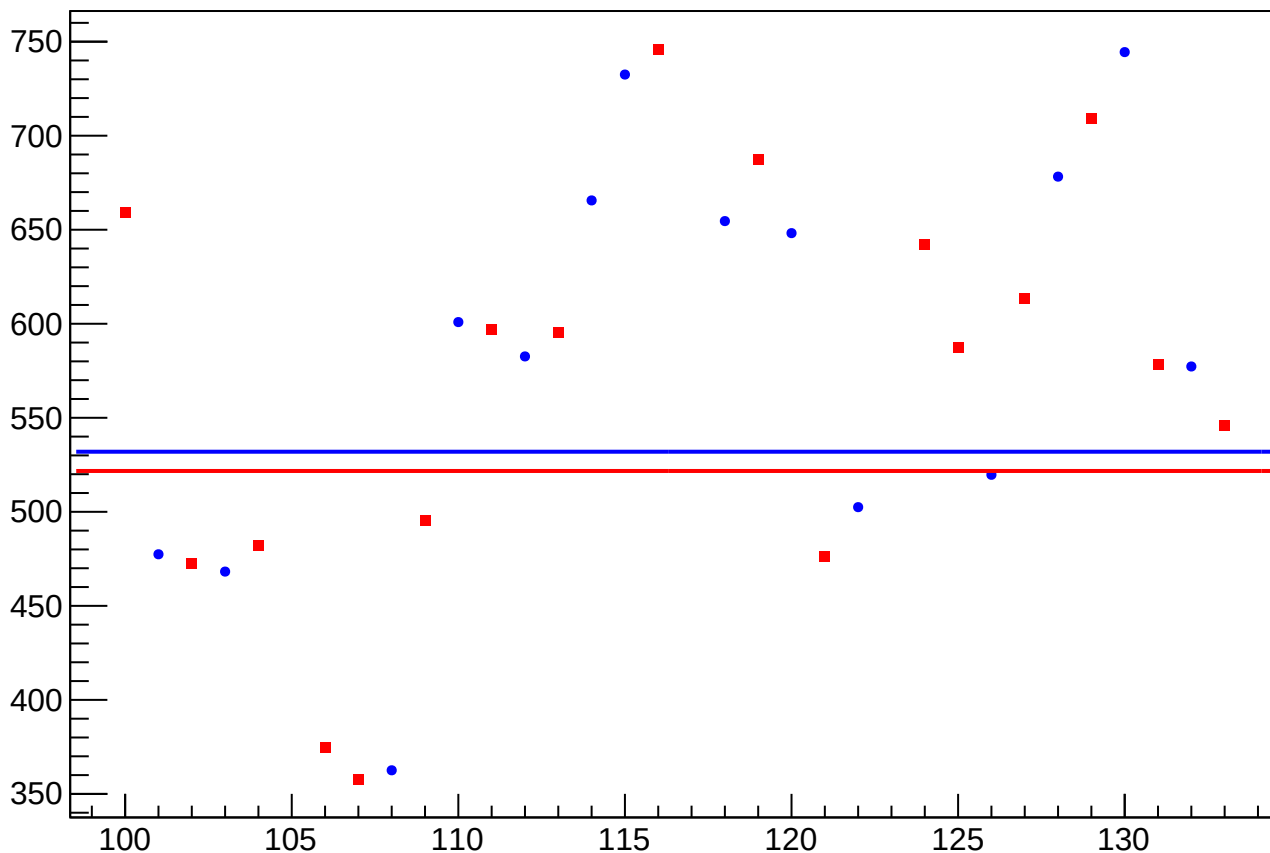
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -129.700 $\pm$ 150.490  $\chi^2$ /NDF: 25.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_dit\_correction\_rms vs Slug



Right In: 531.960+/-0.157  $\chi^2/\text{NDF}$ : 462236.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 521.720+/-0.145  $\chi^2/\text{NDF}$ : 487728.2/16

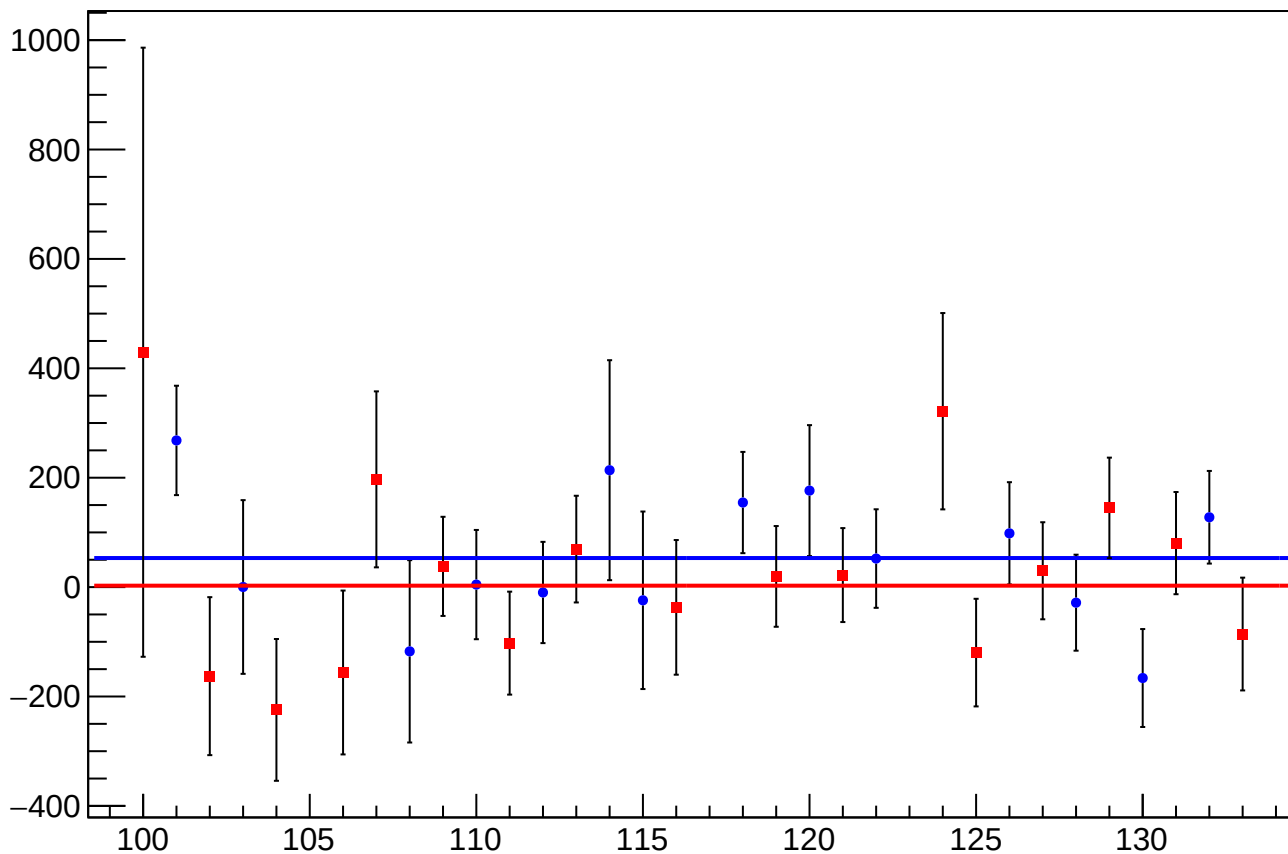
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 526.416+/-0.106  $\chi^2/\text{NDF}$ : 952263.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 53.150 $\pm$ 28.022  $\chi^2$ /NDF: 17.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.618 $\pm$ 26.337  $\chi^2$ /NDF: 18.2/16

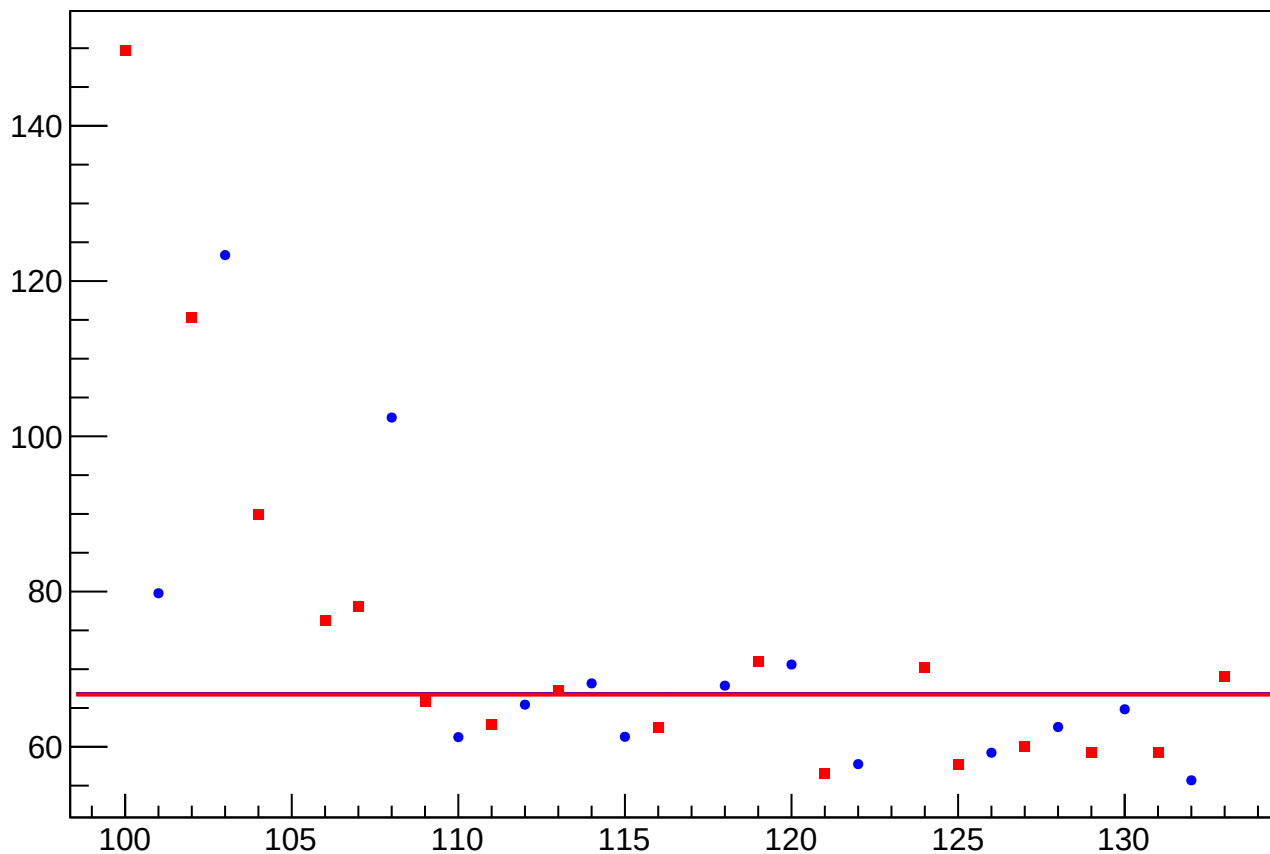
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 26.320 $\pm$ 19.191  $\chi^2$ /NDF: 37.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 66.799+/-0.020  $\chi^2/\text{NDF}$ : 463258.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 66.731+/-0.019  $\chi^2/\text{NDF}$ : 446857.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

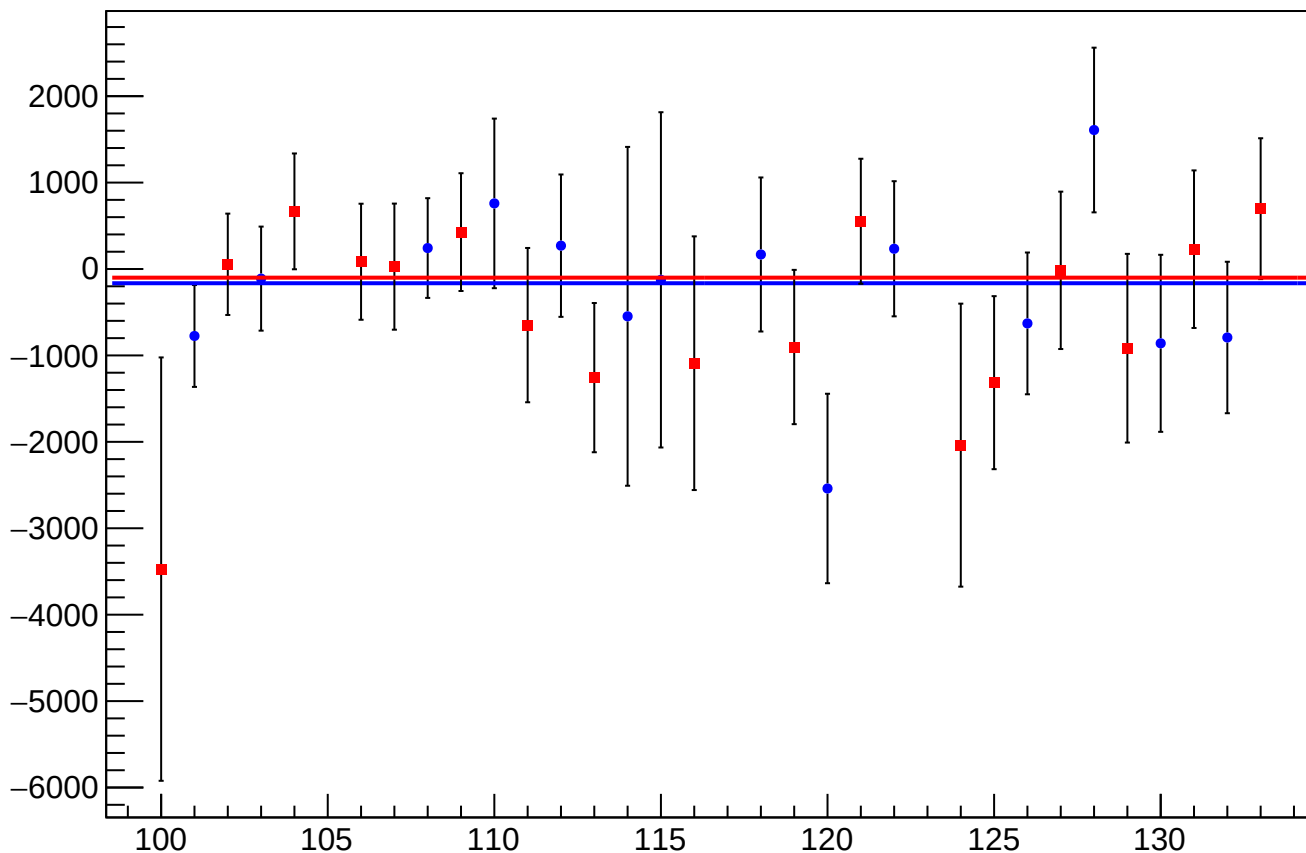
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.763+/-0.014  $\chi^2/\text{NDF}$ : 910122.4/30

- 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: -164.617 $\pm$ 222.220  $\chi^2$ /NDF: 12.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -100.119 $\pm$ 204.530  $\chi^2$ /NDF: 12.8/16

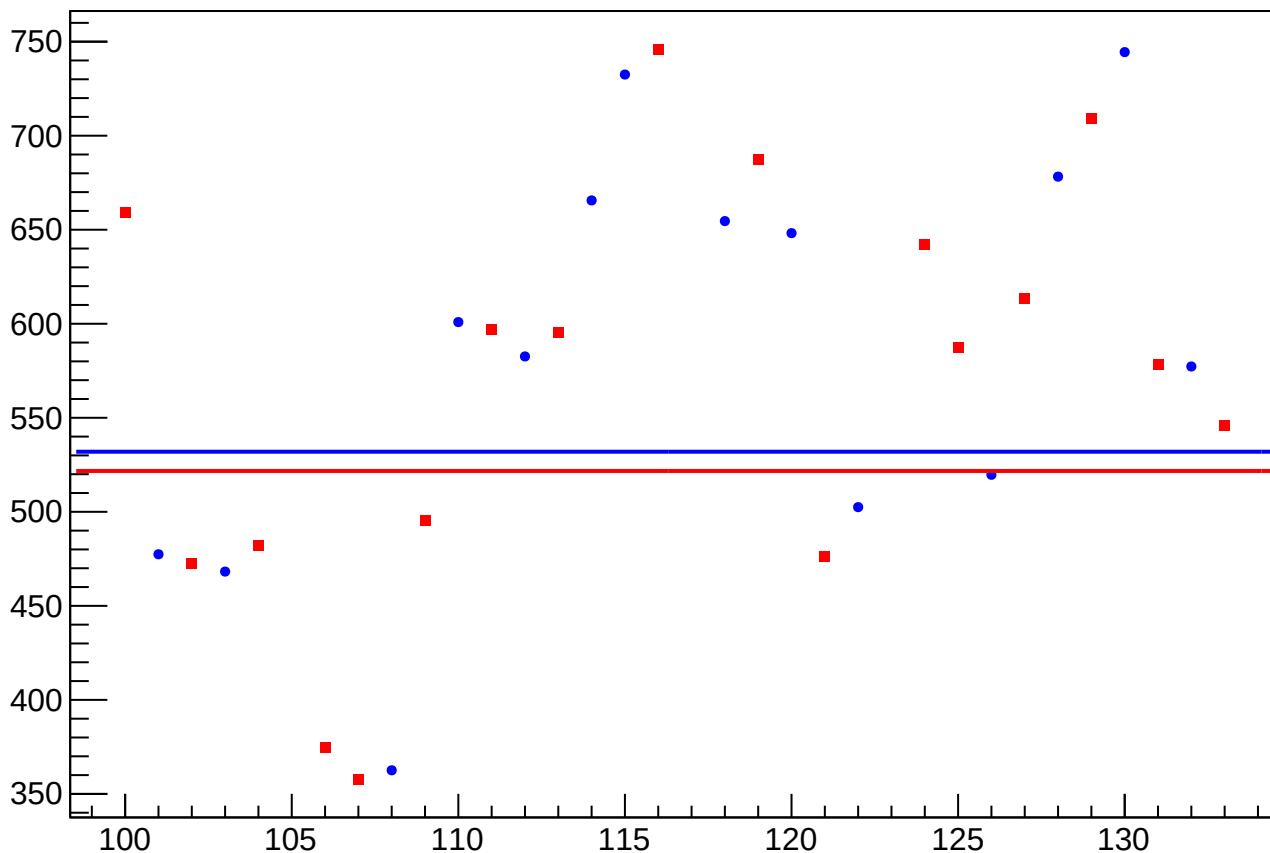
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -129.699 $\pm$ 150.490  $\chi^2$ /NDF: 25.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 531.959+/-0.157  $\chi^2/\text{NDF}$ : 462240.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 521.719+/-0.145  $\chi^2/\text{NDF}$ : 487730.2/16

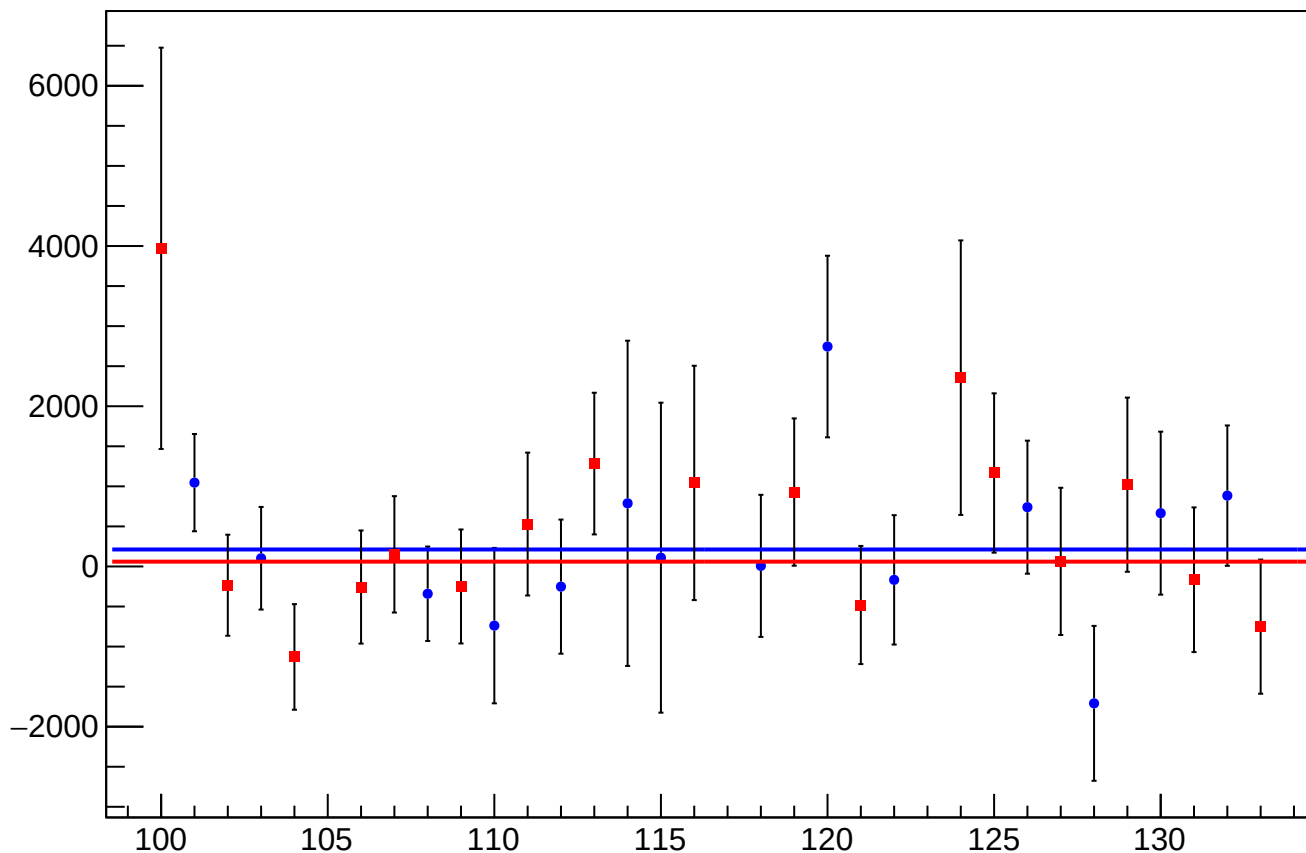
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 526.415+/-0.106  $\chi^2/\text{NDF}$ : 952269.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 212.034+/-227.031  $\chi^2/\text{NDF}$ : 14.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 60.206+/-208.905  $\chi^2/\text{NDF}$ : 15.2/16

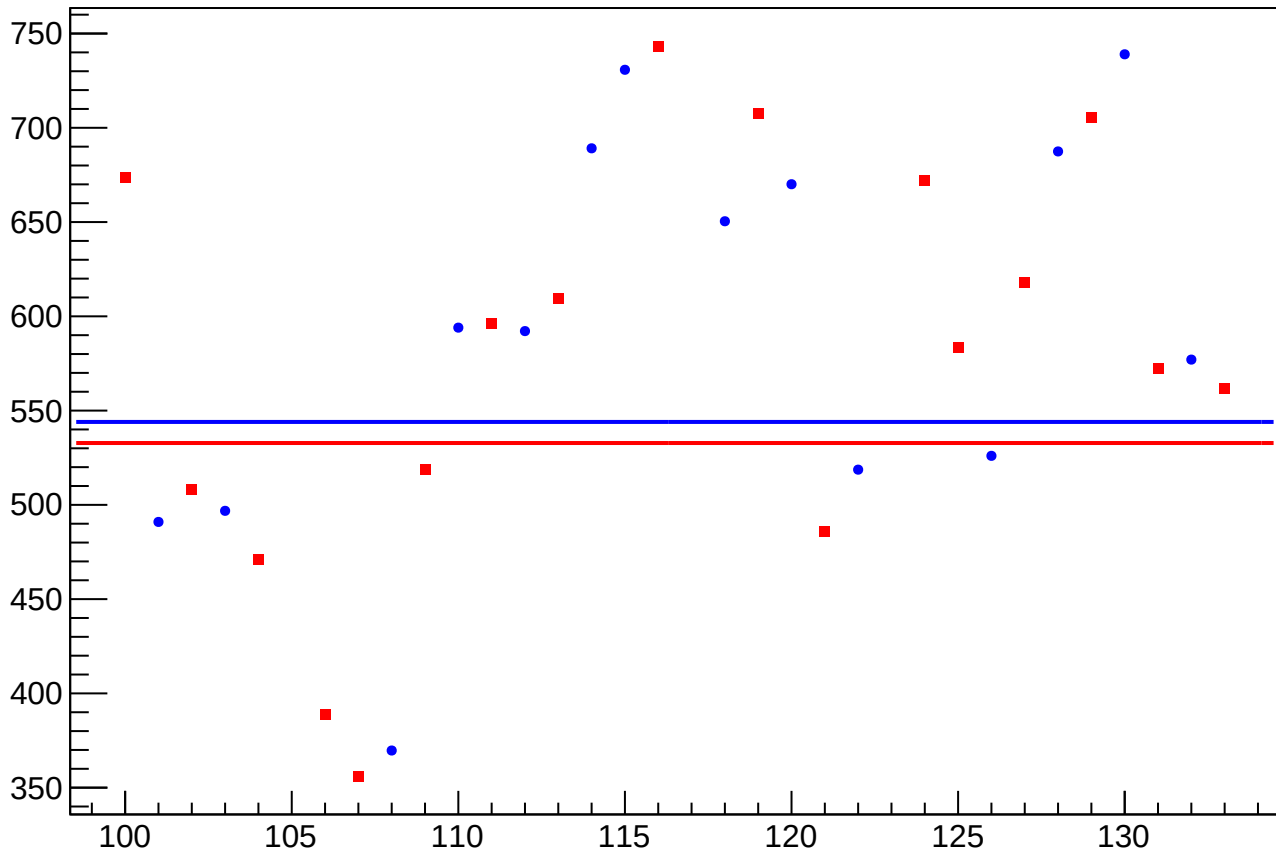
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 129.818+/-153.727  $\chi^2/\text{NDF}$ : 30.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 543.986+/-0.161  $\chi^2/\text{NDF}$ : 418658.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 532.802+/-0.148  $\chi^2/\text{NDF}$ : 469001.6/16

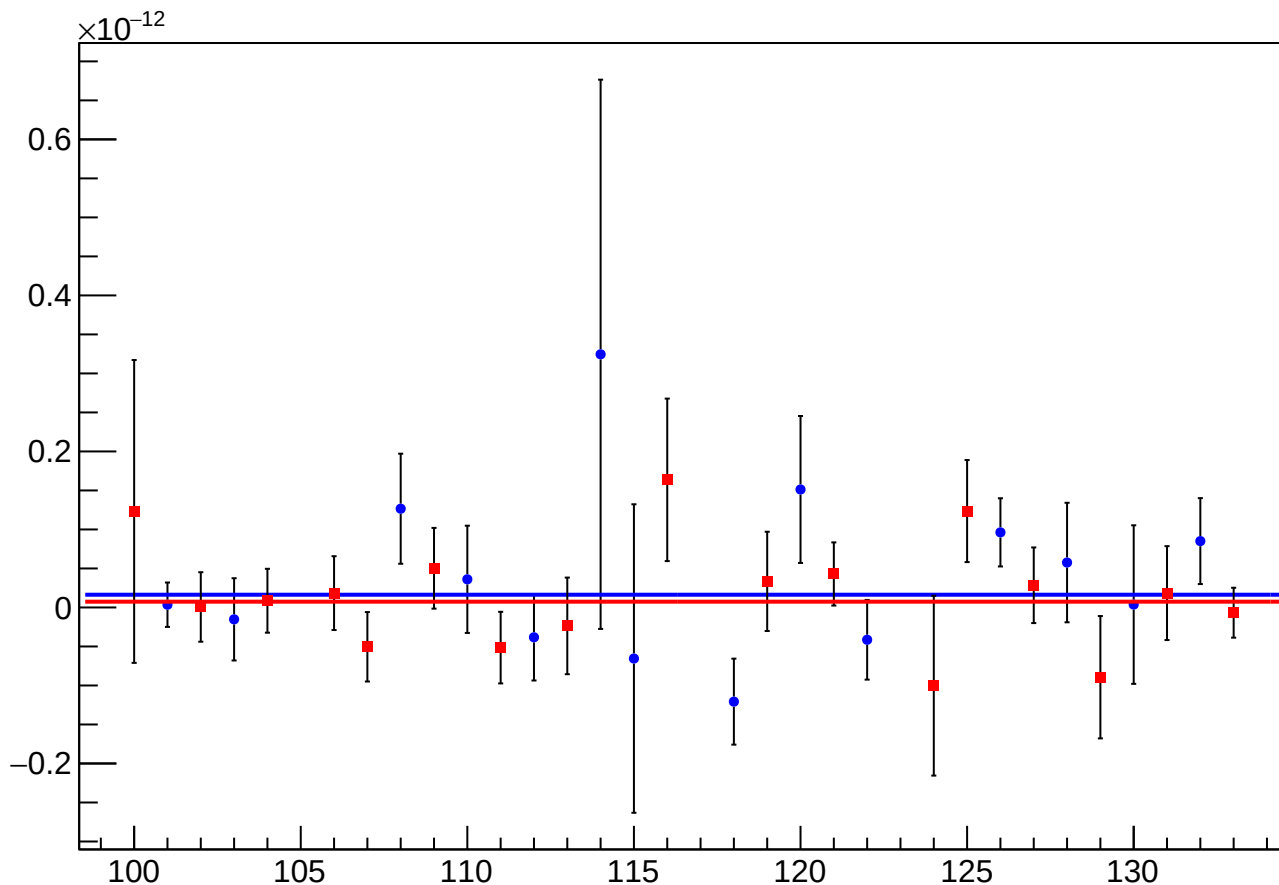
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 537.930+/-0.109  $\chi^2/\text{NDF}$ : 890288.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_13\_57\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.9/16

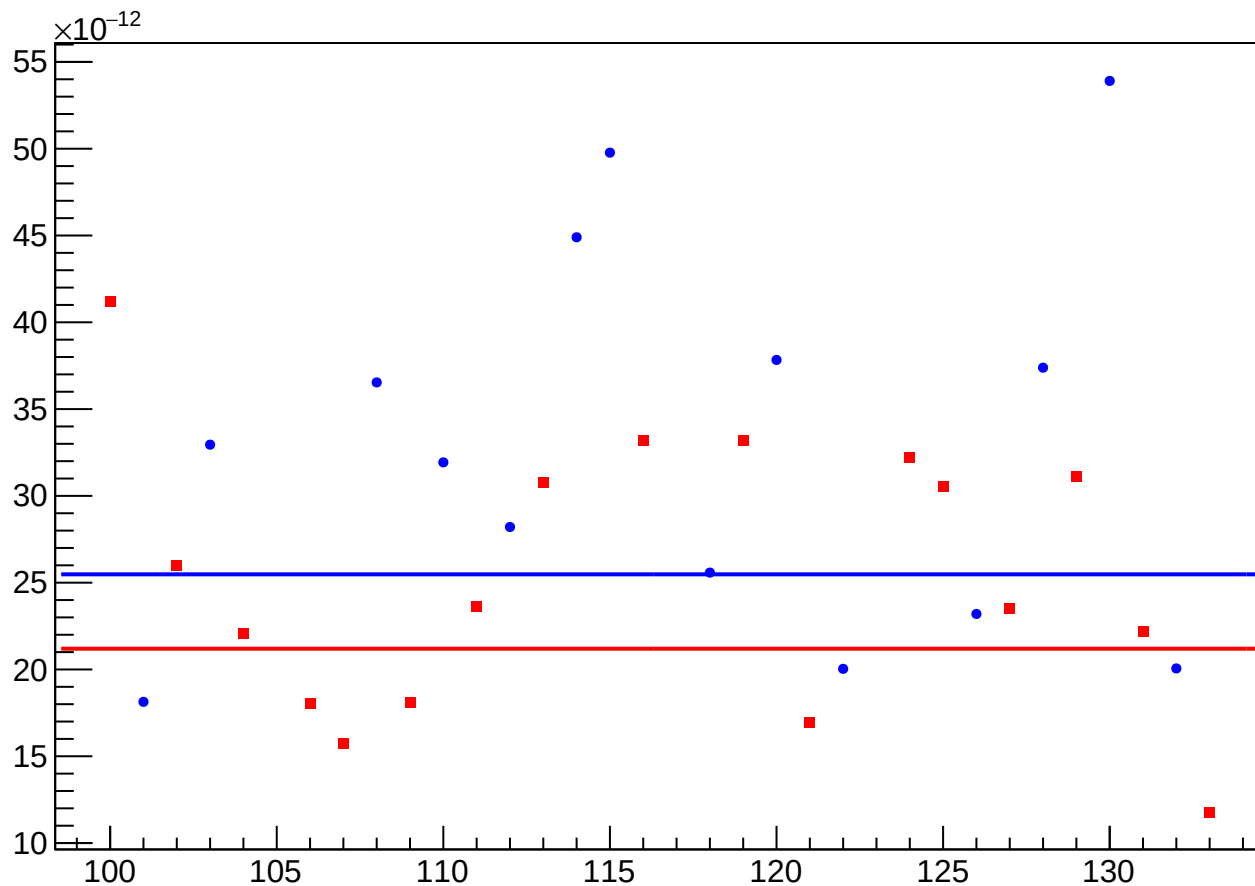
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 33.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 568093.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 534630.6/16

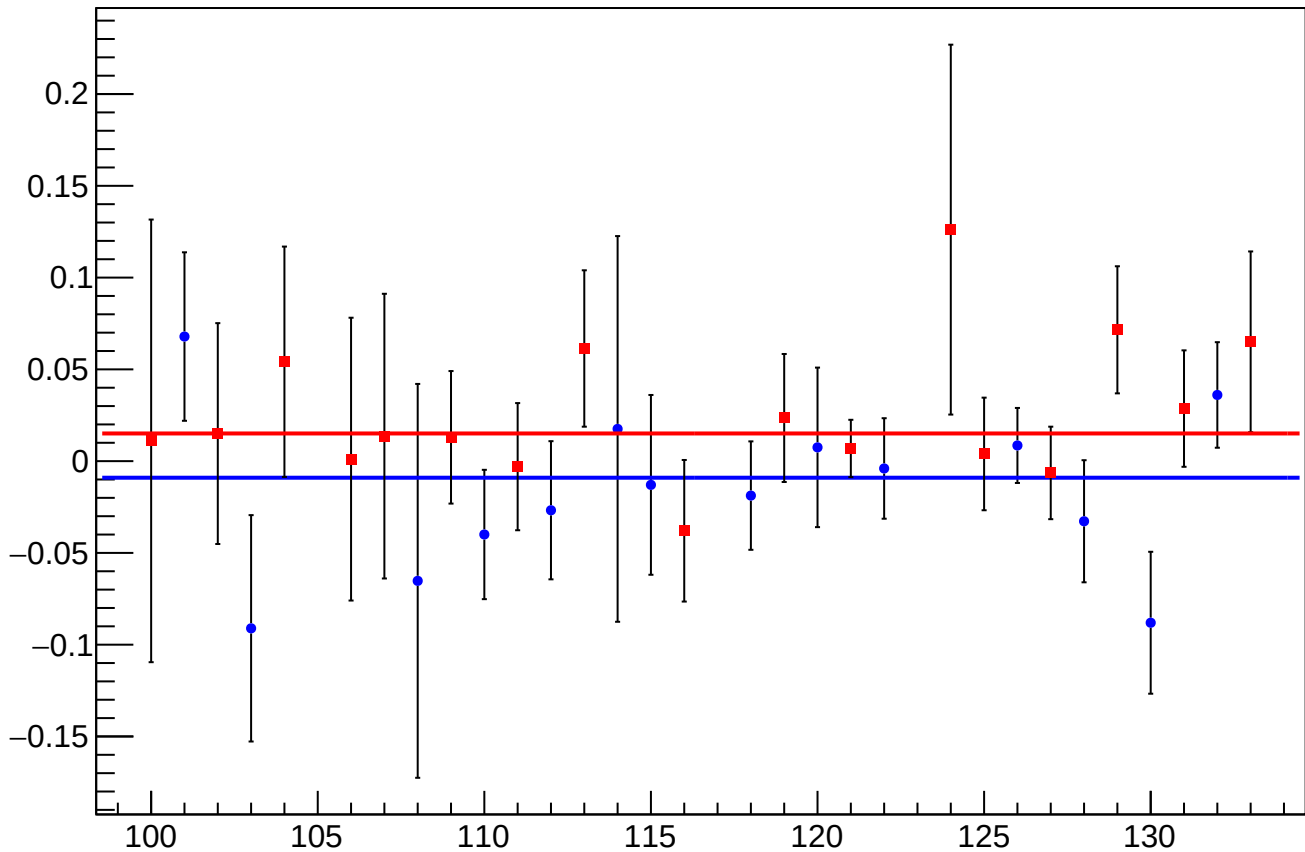
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1196582.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.009 $\pm$ 0.010  $\chi^2$ /NDF: 14.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.015 $\pm$ 0.009  $\chi^2$ /NDF: 10.0/16

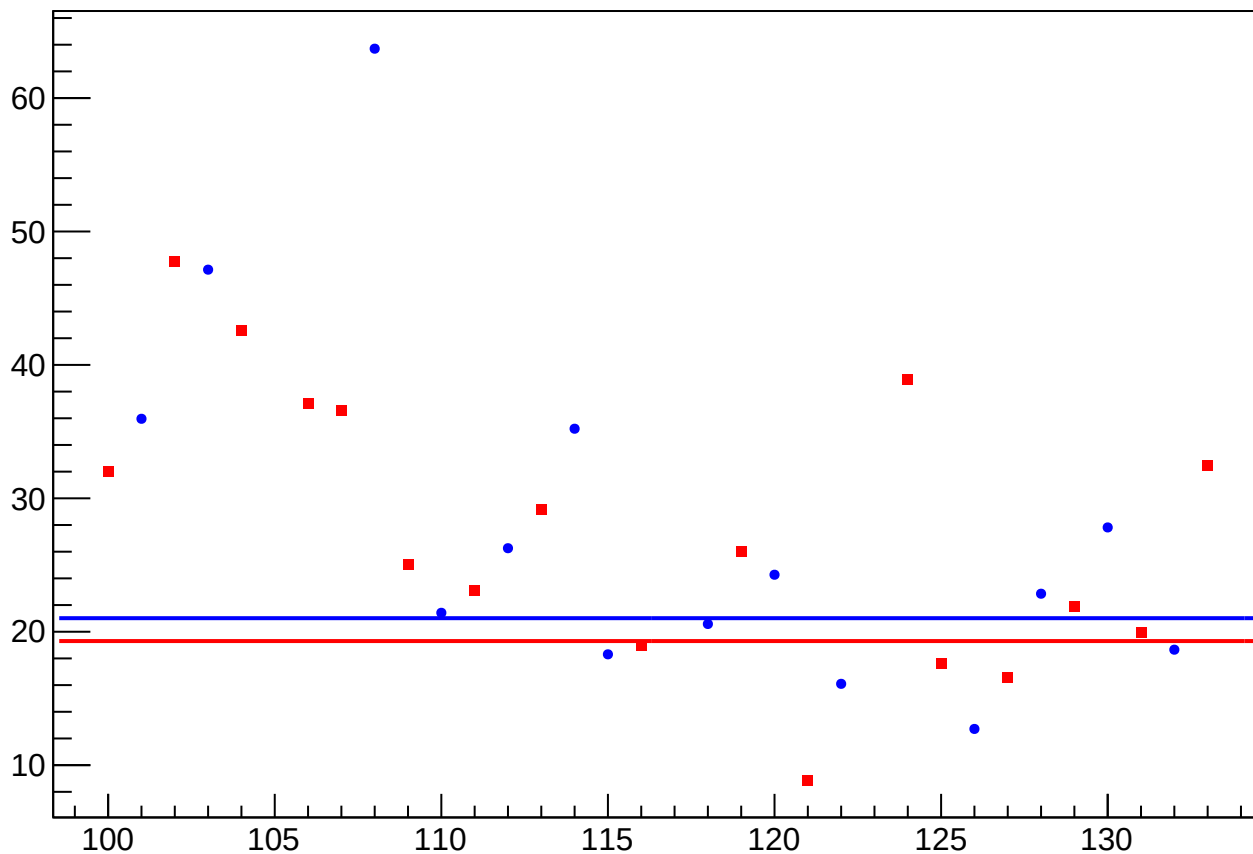
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.006  $\chi^2$ /NDF: 27.7/30

- 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: 21.016+/-0.007  $\chi^2/\text{NDF}$ : 1456845.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.301+/-0.006  $\chi^2/\text{NDF}$ : 2363870.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

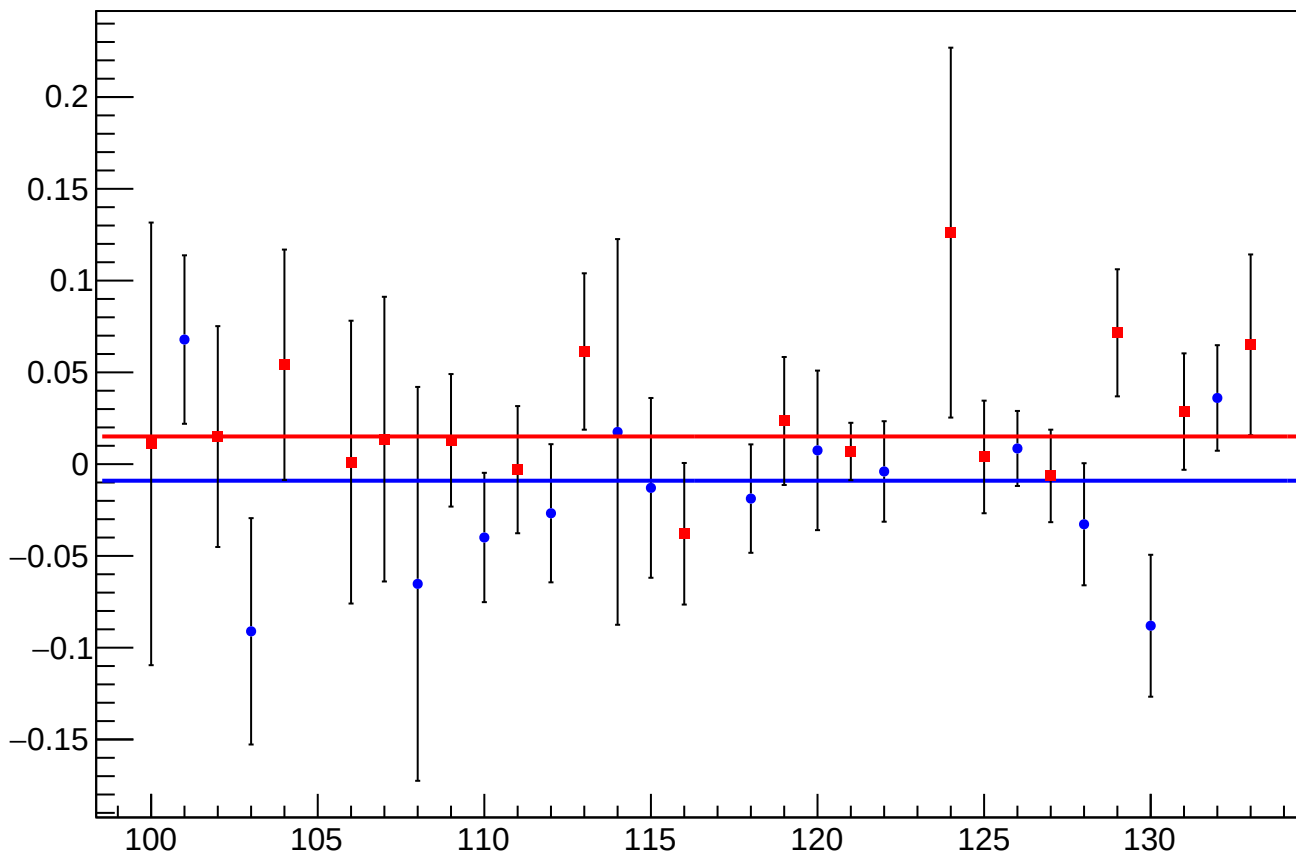
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.068+/-0.005  $\chi^2/\text{NDF}$ : 3856597.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_13\_57\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.009 $\pm$ 0.010  $\chi^2$ /NDF: 14.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.015 $\pm$ 0.009  $\chi^2$ /NDF: 10.0/16

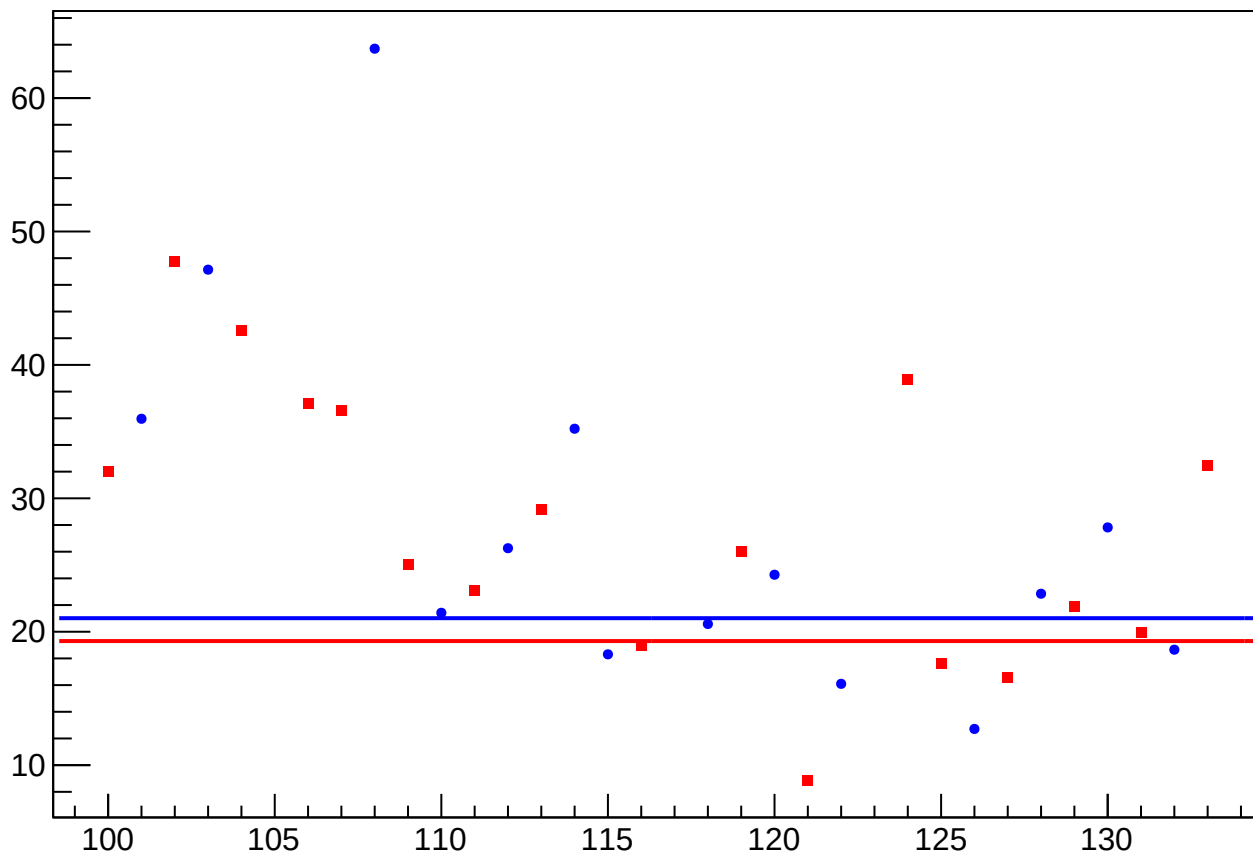
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.006  $\chi^2$ /NDF: 27.7/30

- 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: 21.016+/-0.007  $\chi^2/\text{NDF}$ : 1456845.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.301+/-0.006  $\chi^2/\text{NDF}$ : 2363870.0/16

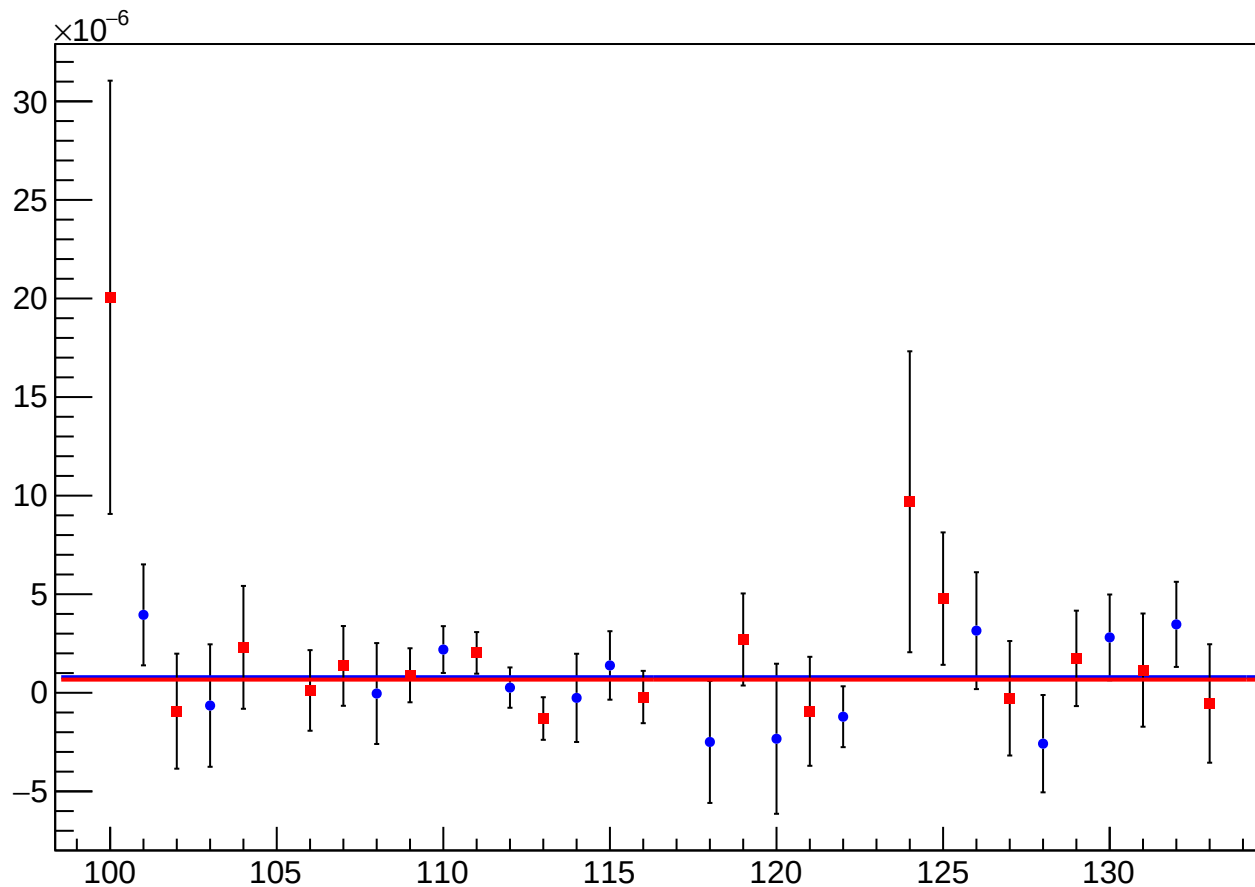
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.068+/-0.005  $\chi^2/\text{NDF}$ : 3856597.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.8/16

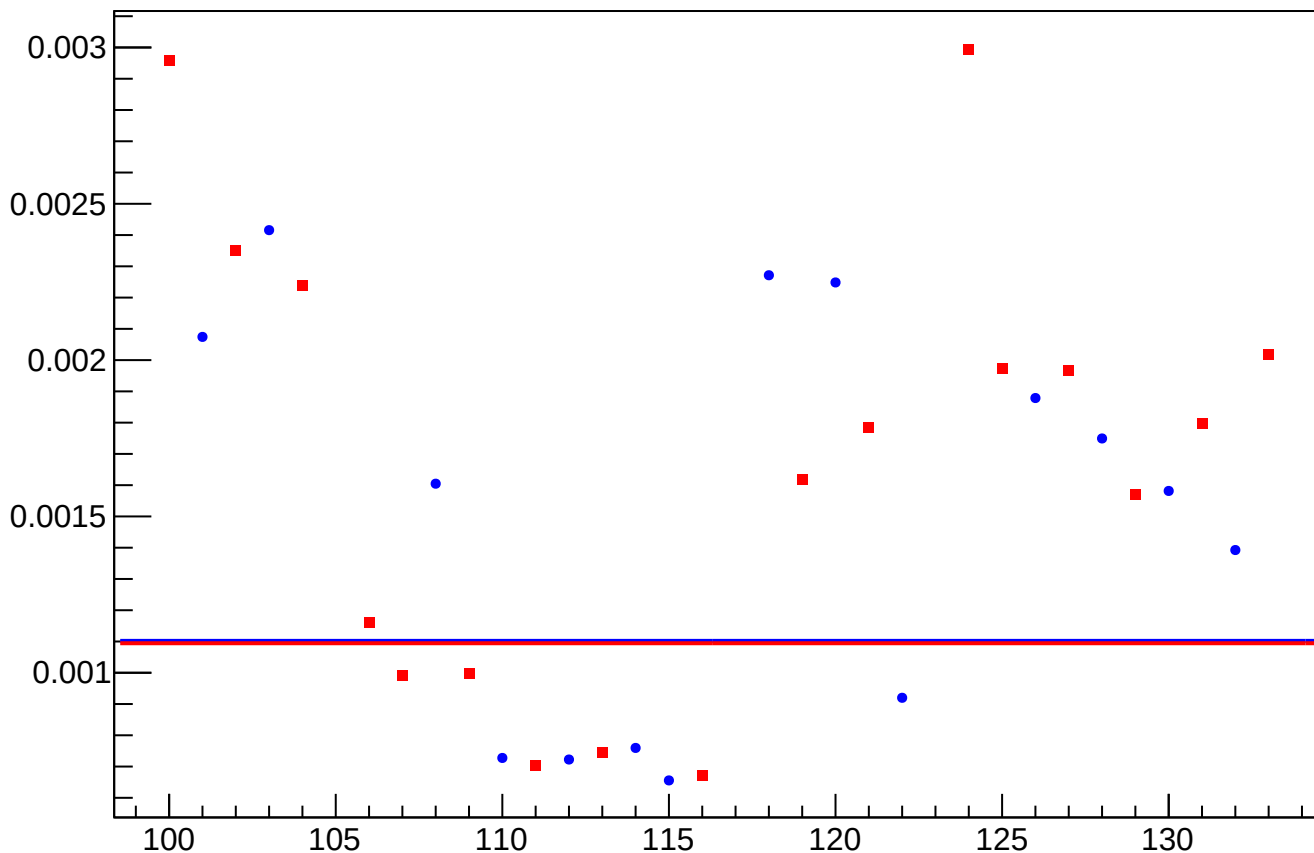
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 26.1/30

- 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  $\chi^2/\text{NDF}$ : 2279958.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2451315.5/16

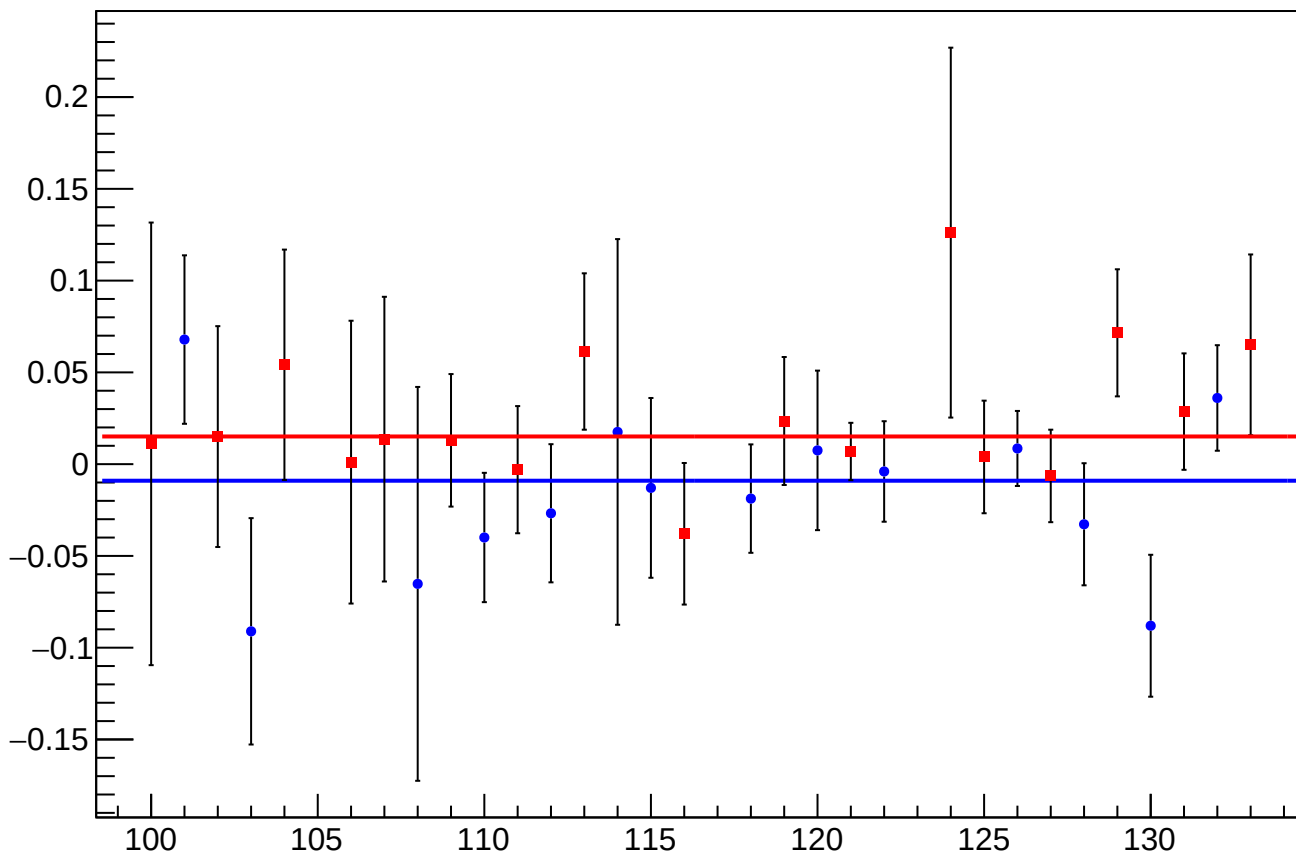
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4731513.3/30

- 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: -0.009 $\pm$ 0.010  $\chi^2$ /NDF: 14.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.015 $\pm$ 0.009  $\chi^2$ /NDF: 10.0/16

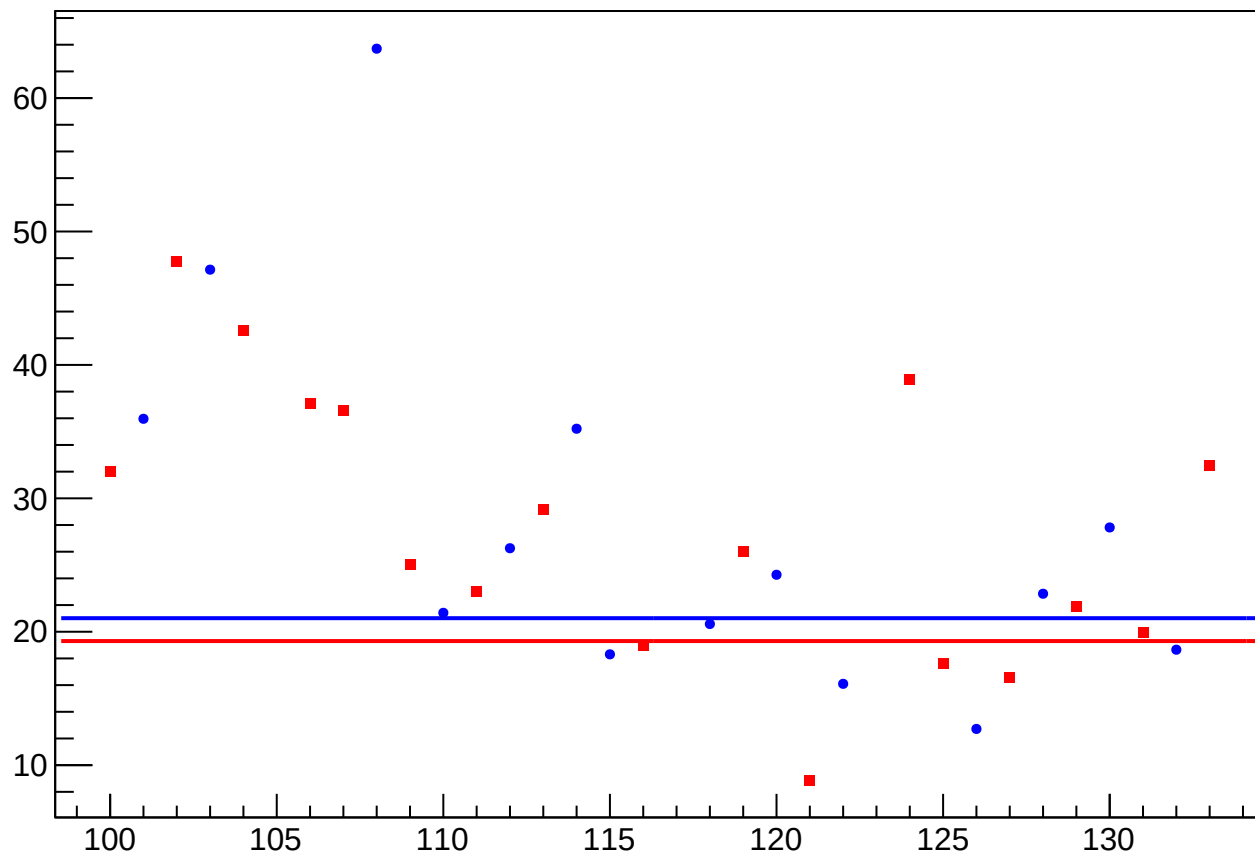
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.006  $\chi^2$ /NDF: 27.7/30

- 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: 21.017+/-0.007  $\chi^2/\text{NDF}$ : 1456677.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.302+/-0.006  $\chi^2/\text{NDF}$ : 2363540.7/16

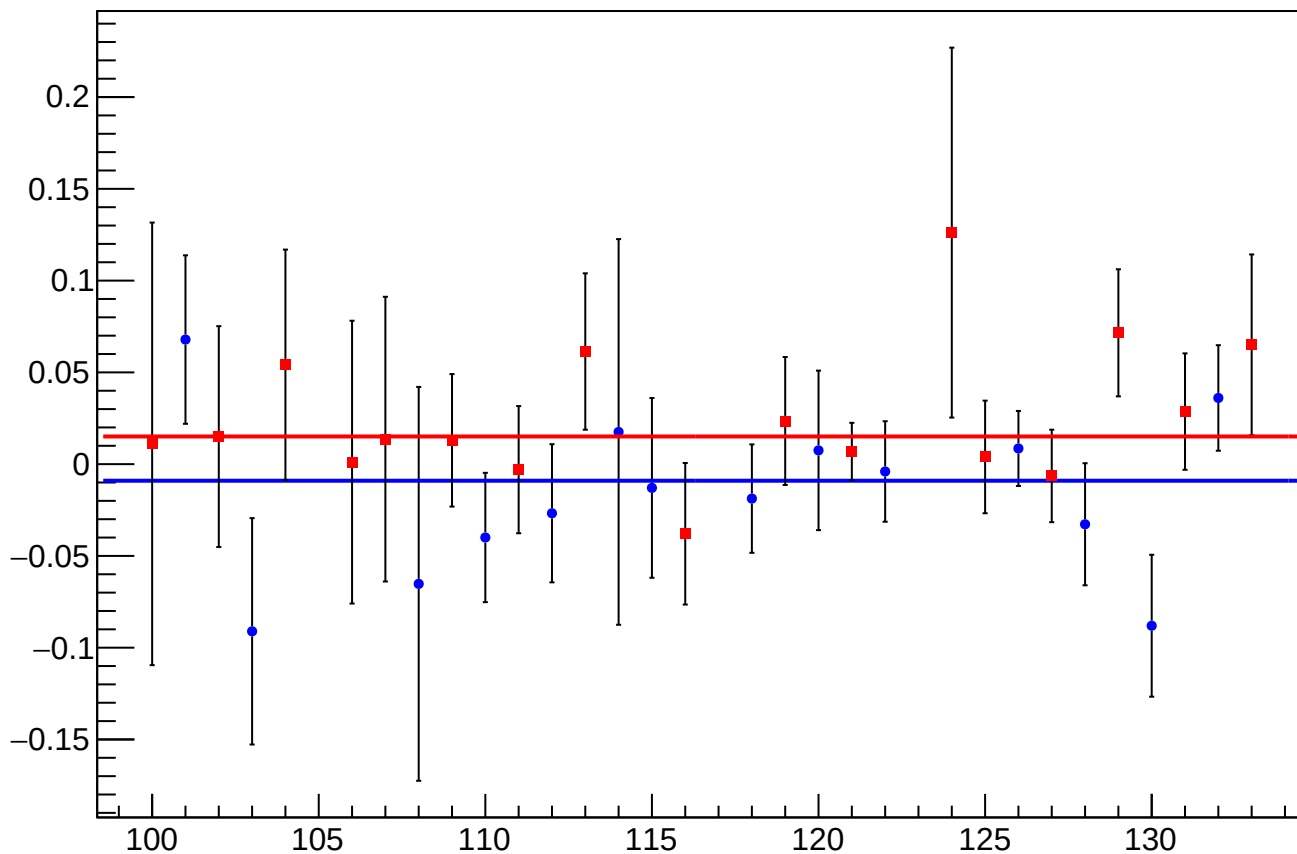
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.068+/-0.005  $\chi^2/\text{NDF}$ : 3856087.5/30

- 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: -0.009+/-0.010  $\chi^2/\text{NDF}$ : 14.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.015+/-0.009  $\chi^2/\text{NDF}$ : 10.0/16

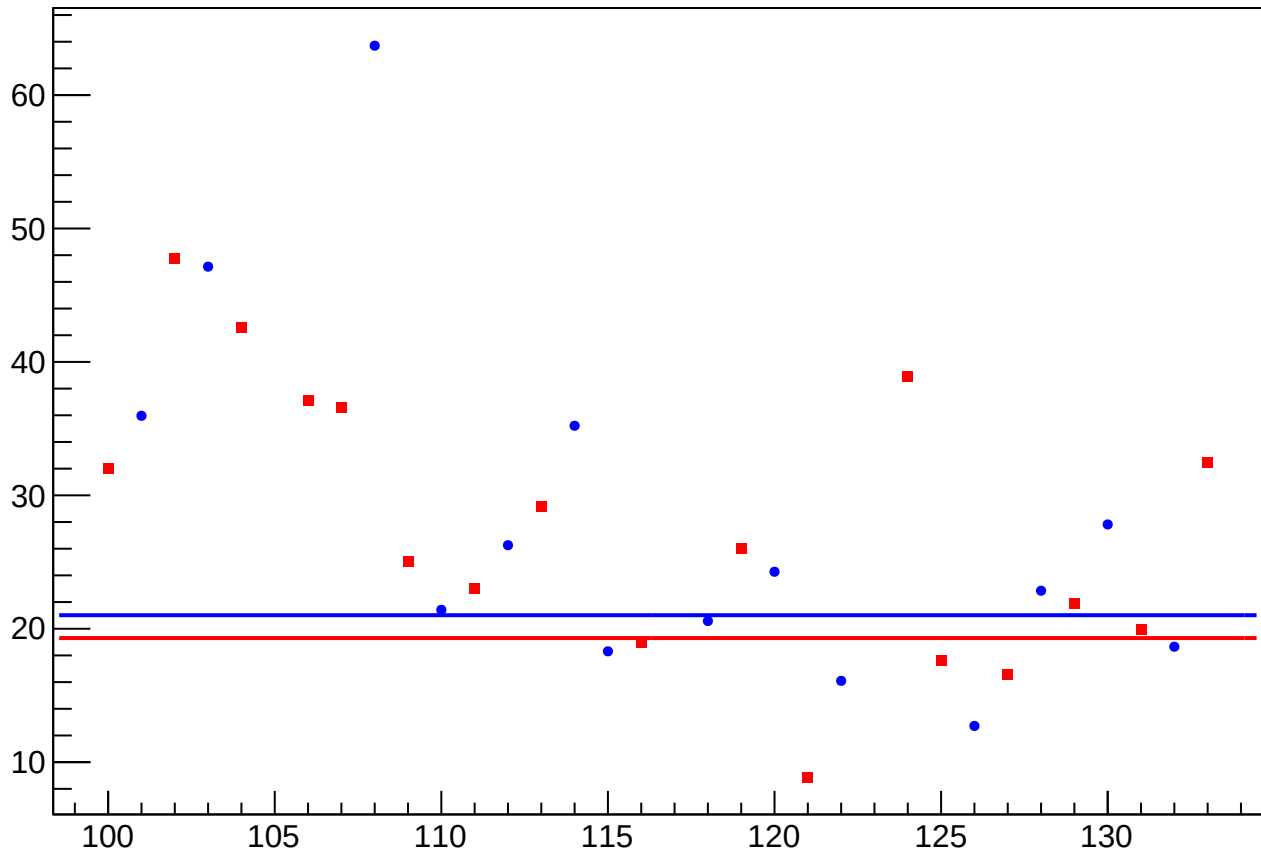
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.006  $\chi^2/\text{NDF}$ : 27.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 21.017+/-0.007  $\chi^2/\text{NDF}$ : 1456677.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.302+/-0.006  $\chi^2/\text{NDF}$ : 2363540.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

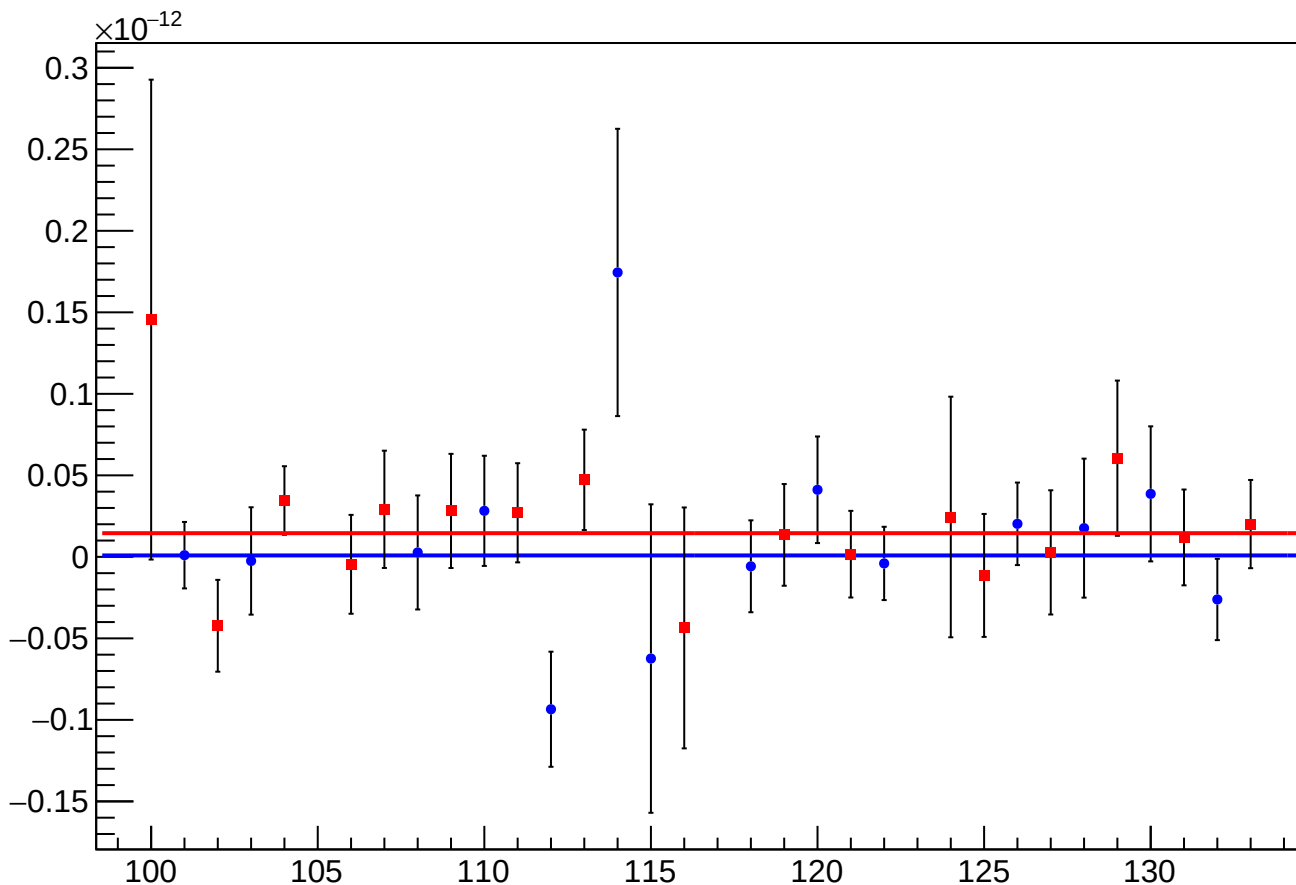
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.068+/-0.005  $\chi^2/\text{NDF}$ : 3856087.5/30

- 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+/-0.000  $\chi^2/\text{NDF}$ : 16.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.2/16

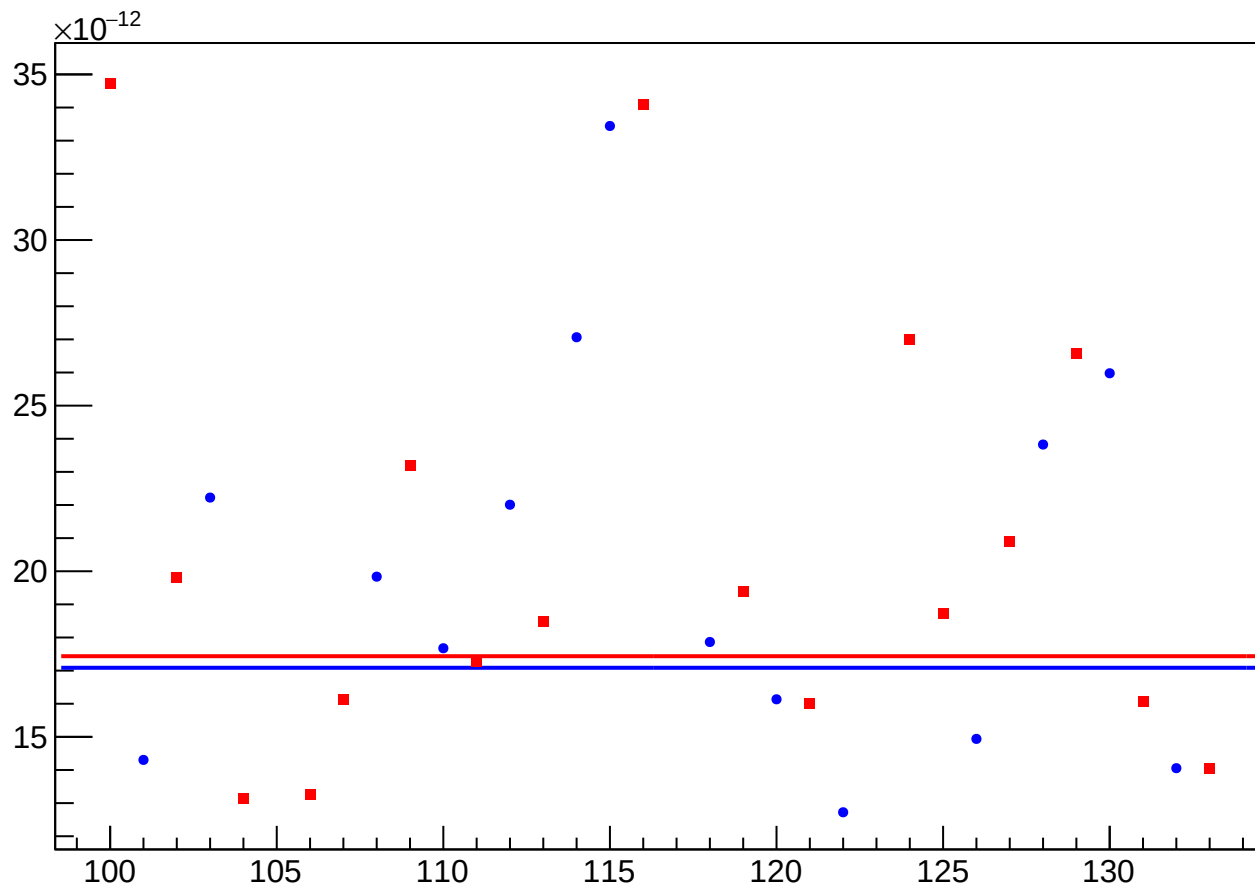
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_13\_57\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 487803.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 499709.2/16

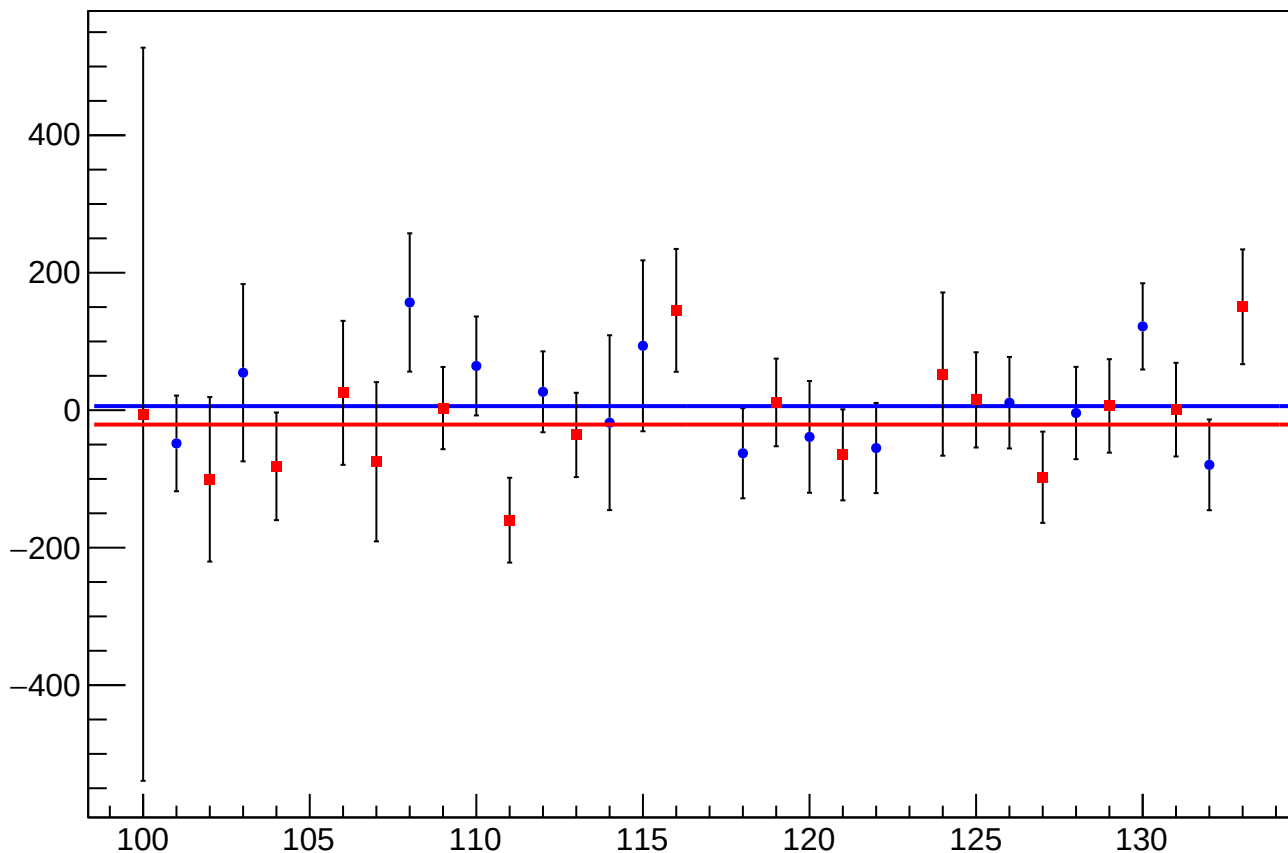
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 989350.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 5.929+/-19.917  $\chi^2/\text{NDF}$ : 11.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20.904+/-18.599  $\chi^2/\text{NDF}$ : 17.4/16

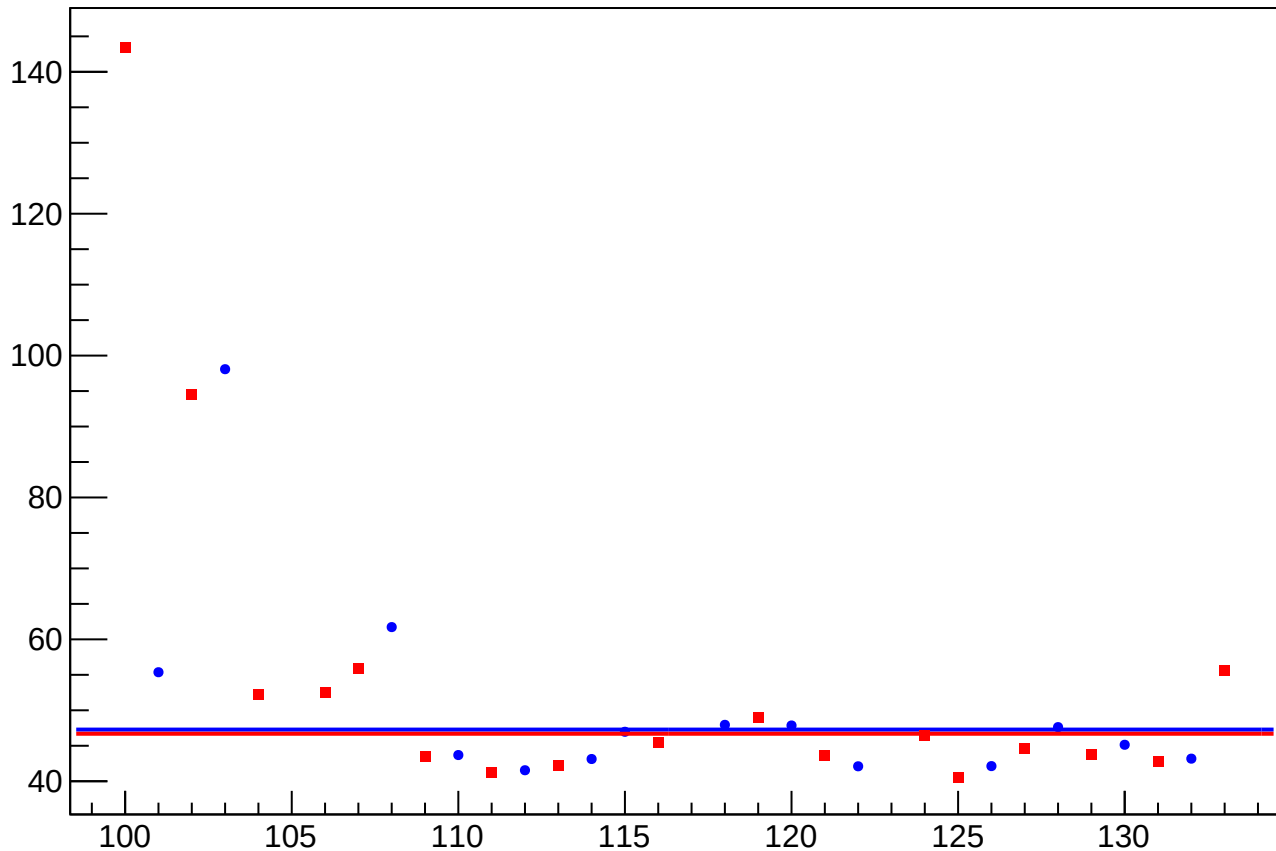
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.404+/-13.593  $\chi^2/\text{NDF}$ : 30.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 47.281+/-0.014  $\chi^2/\text{NDF}$ : 439487.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.693+/-0.013  $\chi^2/\text{NDF}$ : 504651.6/16

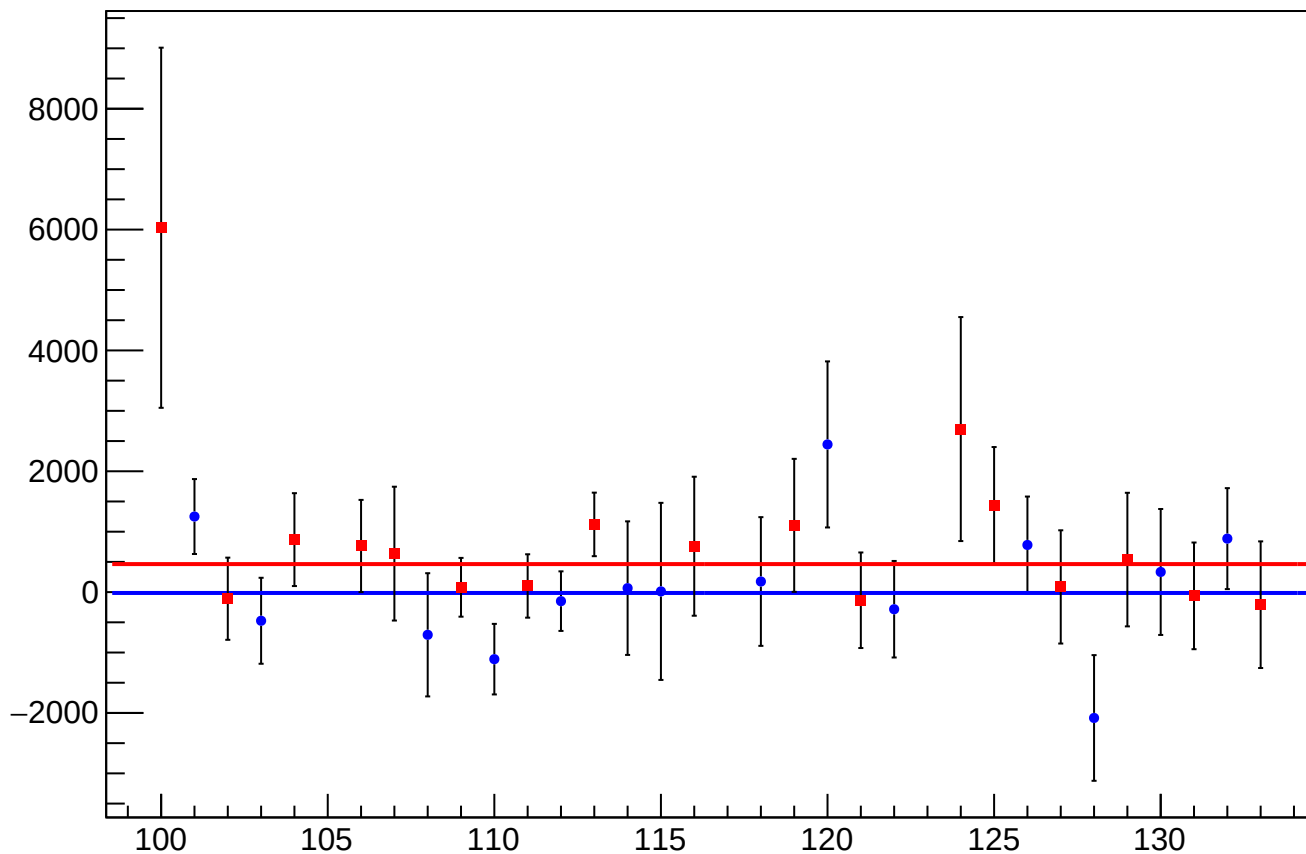
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.967+/-0.010  $\chi^2/\text{NDF}$ : 945069.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_reg\_correction\_mean vs Slug



Right In:  $-14.113 \pm 214.768$   $\chi^2/\text{NDF}$ : 18.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $463.708 \pm 193.621$   $\chi^2/\text{NDF}$ : 11.7/16

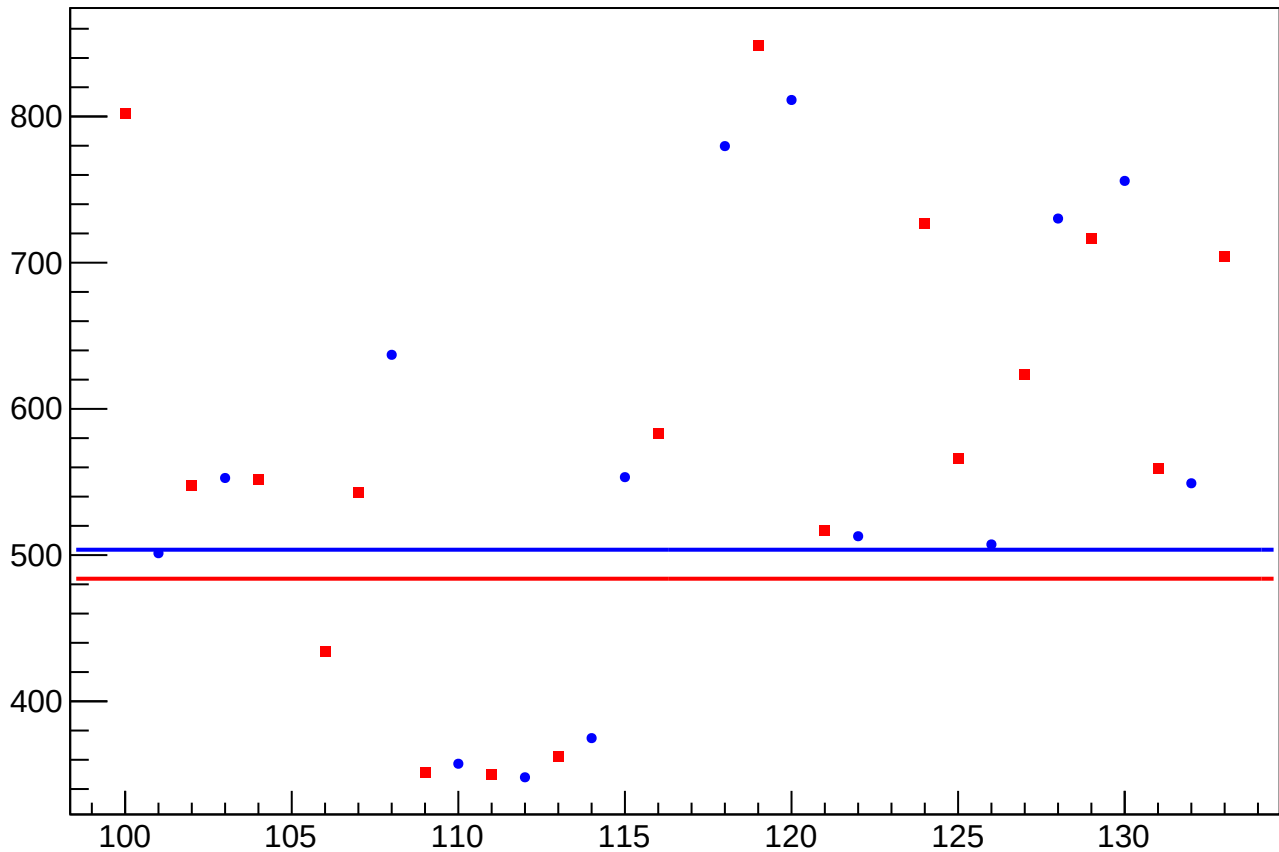
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $249.474 \pm 143.807$   $\chi^2/\text{NDF}$ : 32.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_reg\_correction\_rms vs Slug



Right In: 503.680 $\pm$ 0.152  $\chi^2$ /NDF: 850993.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 483.847 $\pm$ 0.137  $\chi^2$ /NDF: 977752.4/16

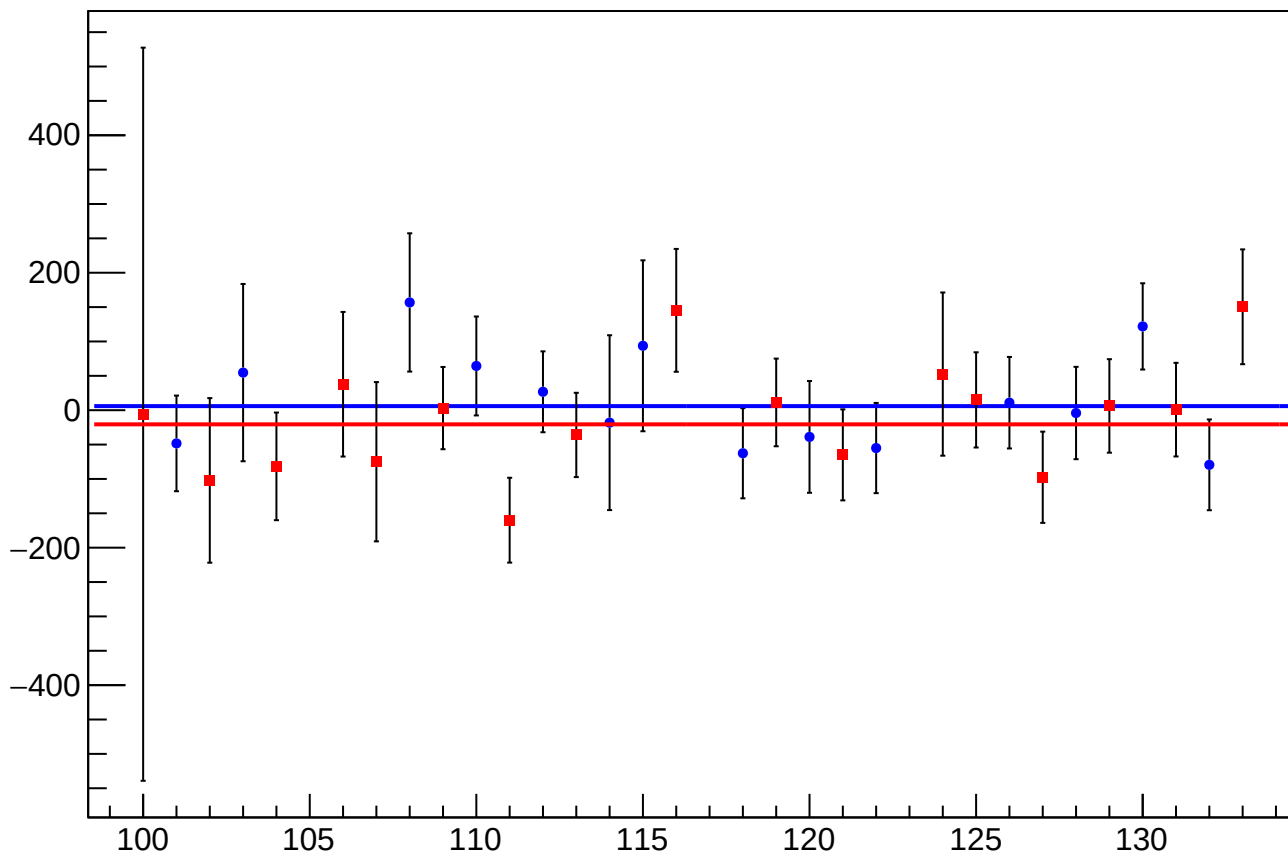
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 492.739 $\pm$ 0.102  $\chi^2$ /NDF: 1838155.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 5.936+/-19.917  $\chi^2/\text{NDF}$ : 11.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20.564+/-18.602  $\chi^2/\text{NDF}$ : 17.5/16

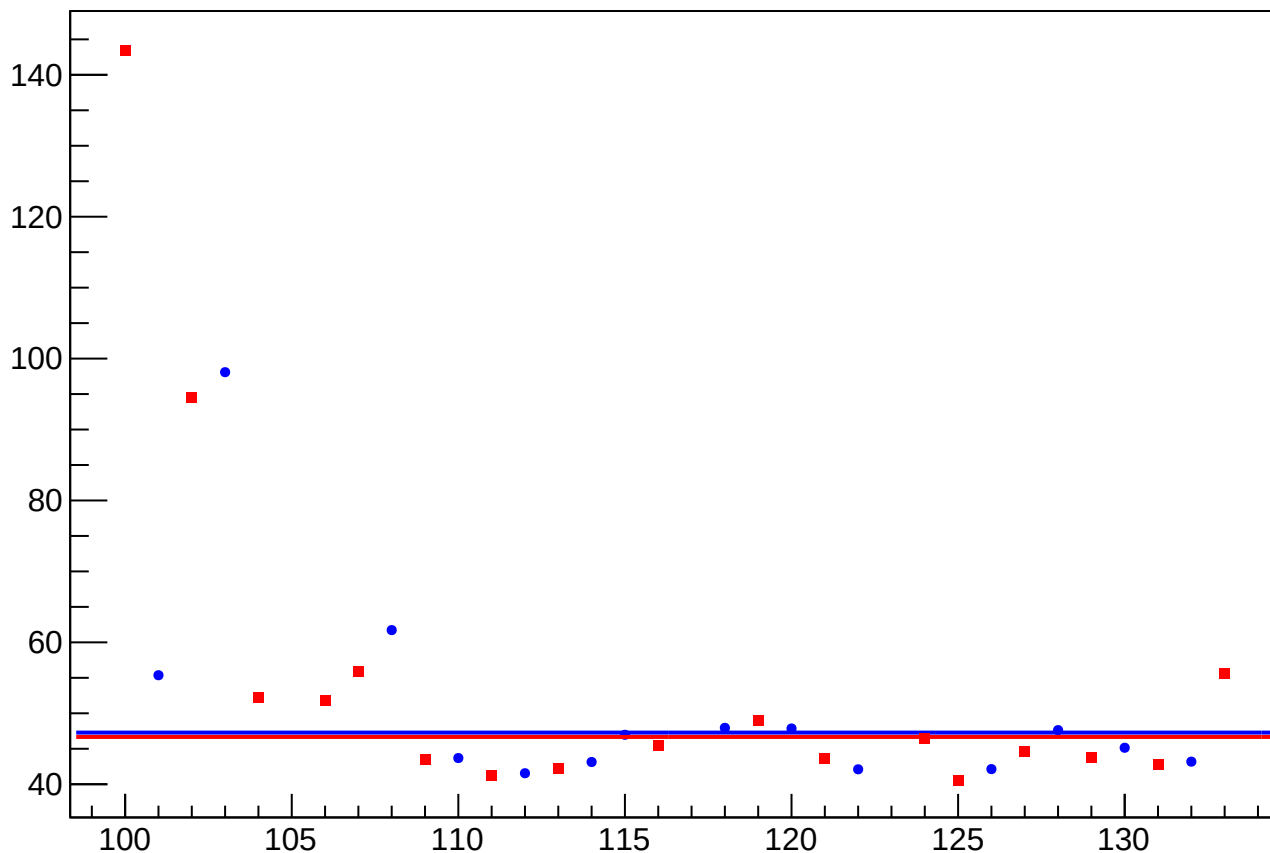
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.218+/-13.595  $\chi^2/\text{NDF}$ : 30.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 47.281+/-0.014  $\chi^2/\text{NDF}$ : 439490.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.666+/-0.013  $\chi^2/\text{NDF}$ : 503231.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

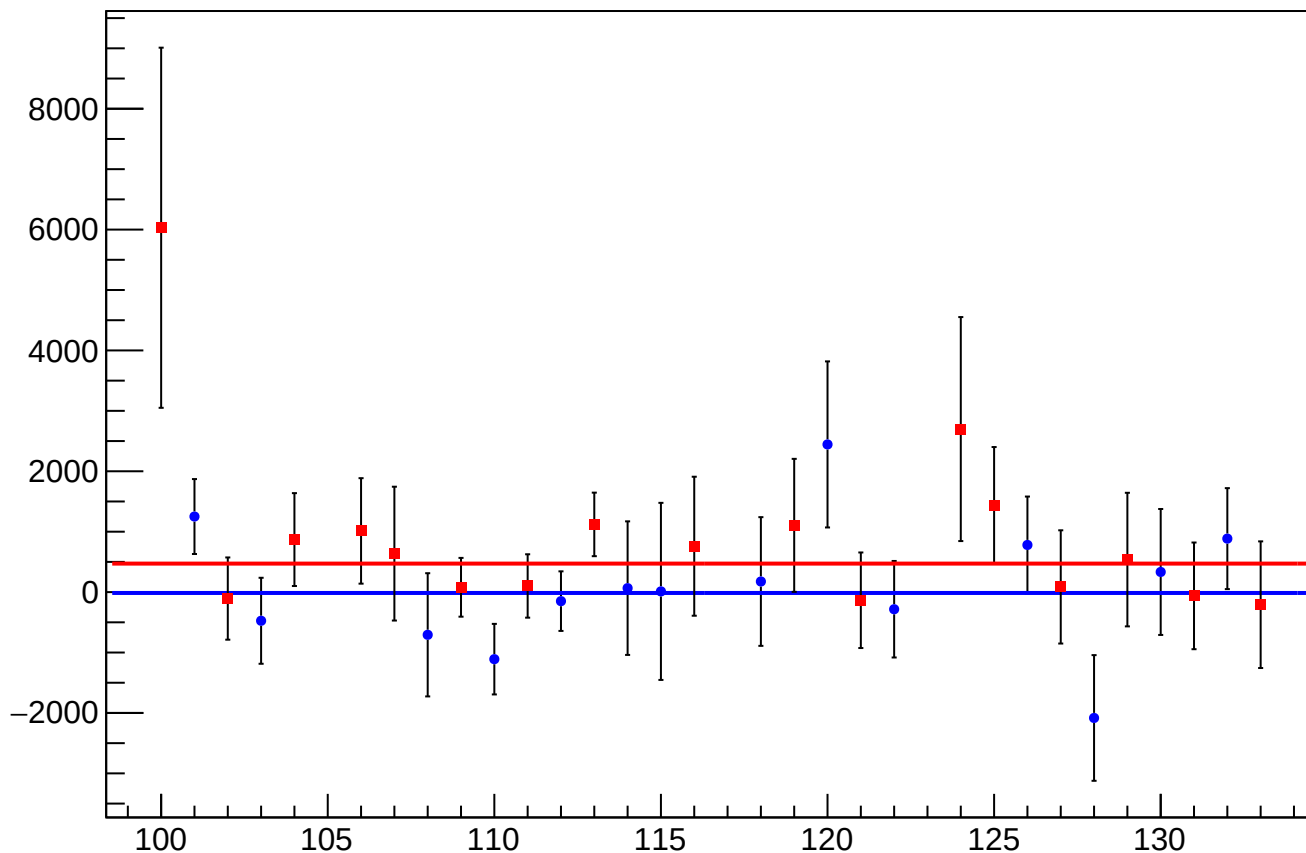
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.952+/-0.010  $\chi^2/\text{NDF}$ : 943740.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_37\_dd\_cor\_correction\_mean vs Slug



Right In:  $-14.112 \pm 214.770$   $\chi^2/\text{NDF}$ : 18.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $471.851 \pm 195.125$   $\chi^2/\text{NDF}$ : 11.9/16

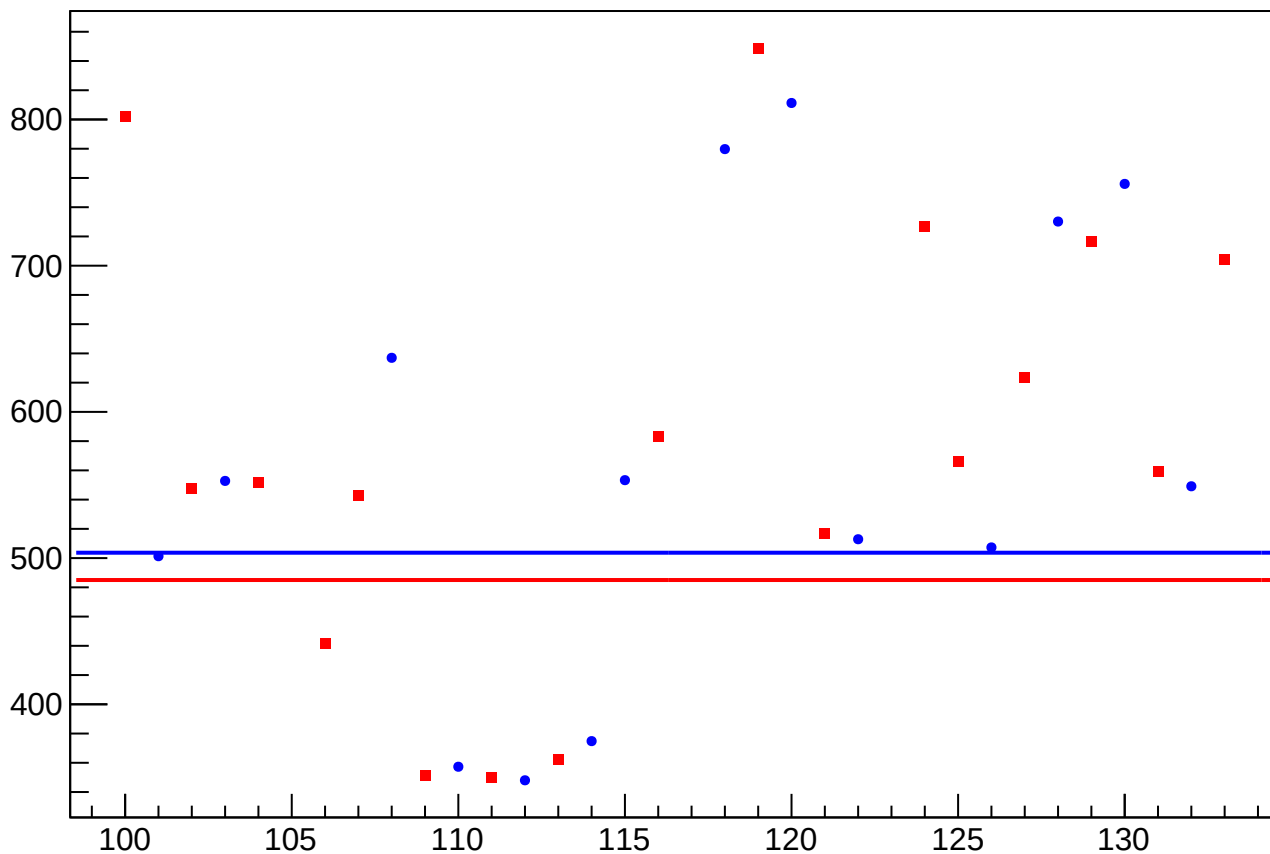
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $252.107 \pm 144.421$   $\chi^2/\text{NDF}$ : 32.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_cor\_correction\_rms vs Slug



Right In: 503.684 $\pm$ 0.152  $\chi^2$ /NDF: 851015.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 485.006 $\pm$ 0.138  $\chi^2$ /NDF: 974105.0/16

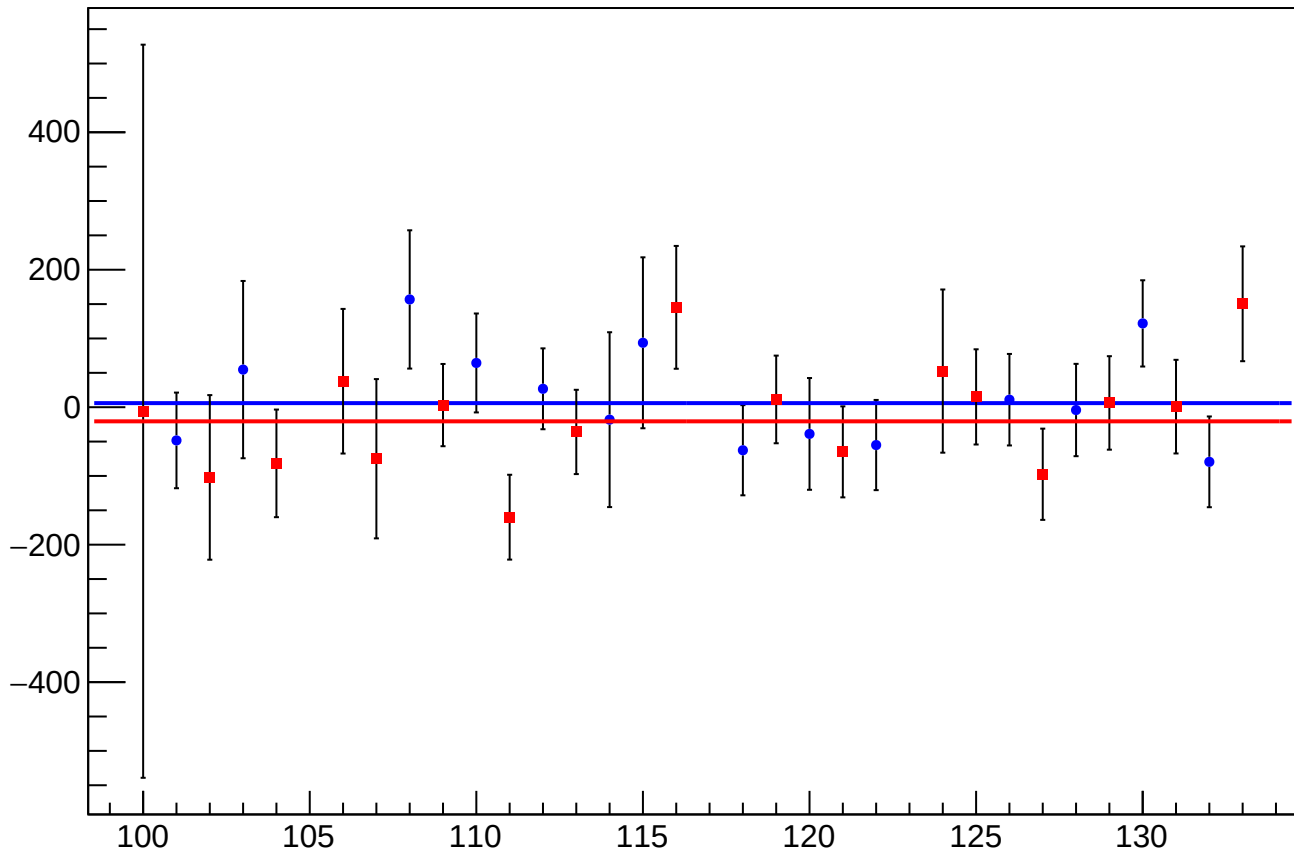
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 493.452 $\pm$ 0.102  $\chi^2$ /NDF: 1833406.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In:  $5.936 \pm 19.917$   $\chi^2/\text{NDF}$ : 11.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-20.564 \pm 18.602$   $\chi^2/\text{NDF}$ : 17.5/16

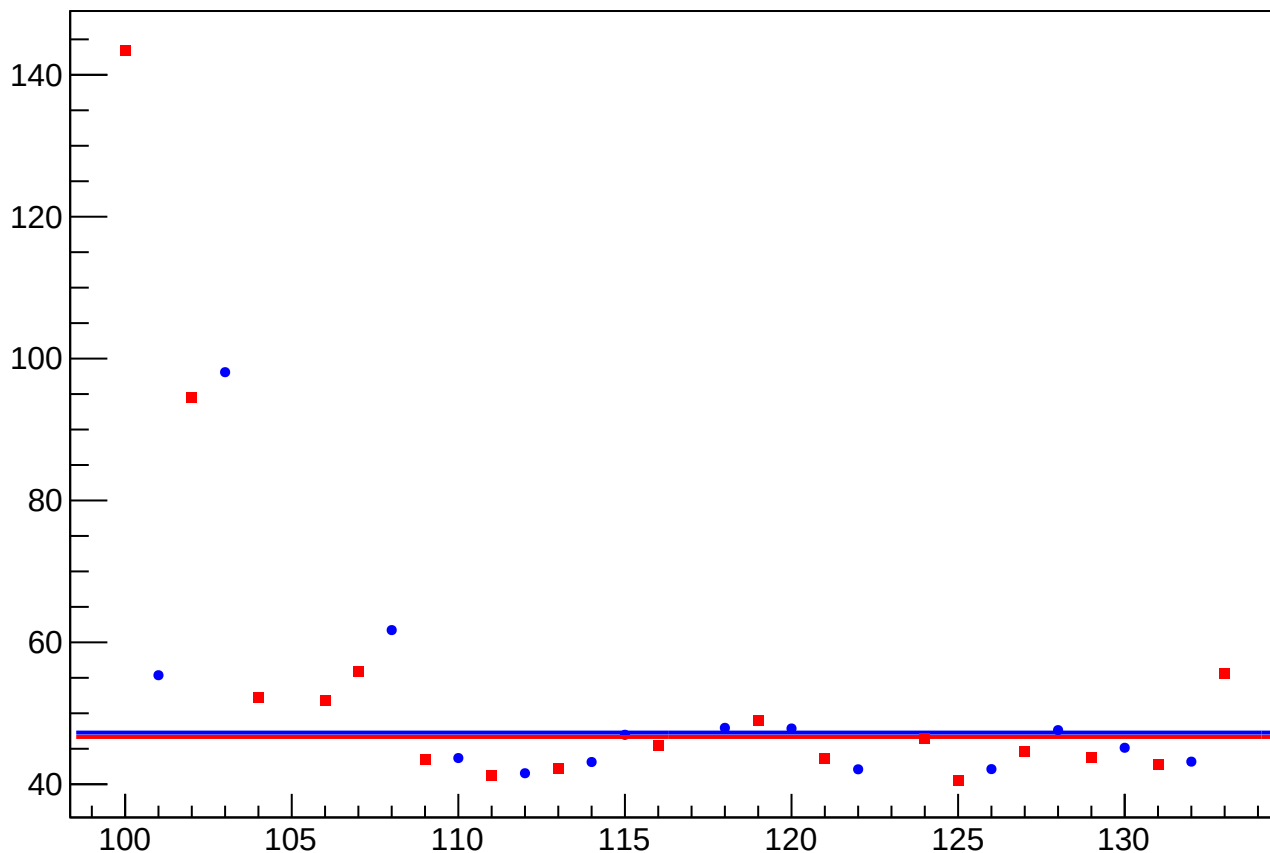
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-8.218 \pm 13.595$   $\chi^2/\text{NDF}$ : 30.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 47.281+/-0.014  $\chi^2/\text{NDF}$ : 439490.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.666+/-0.013  $\chi^2/\text{NDF}$ : 503231.6/16

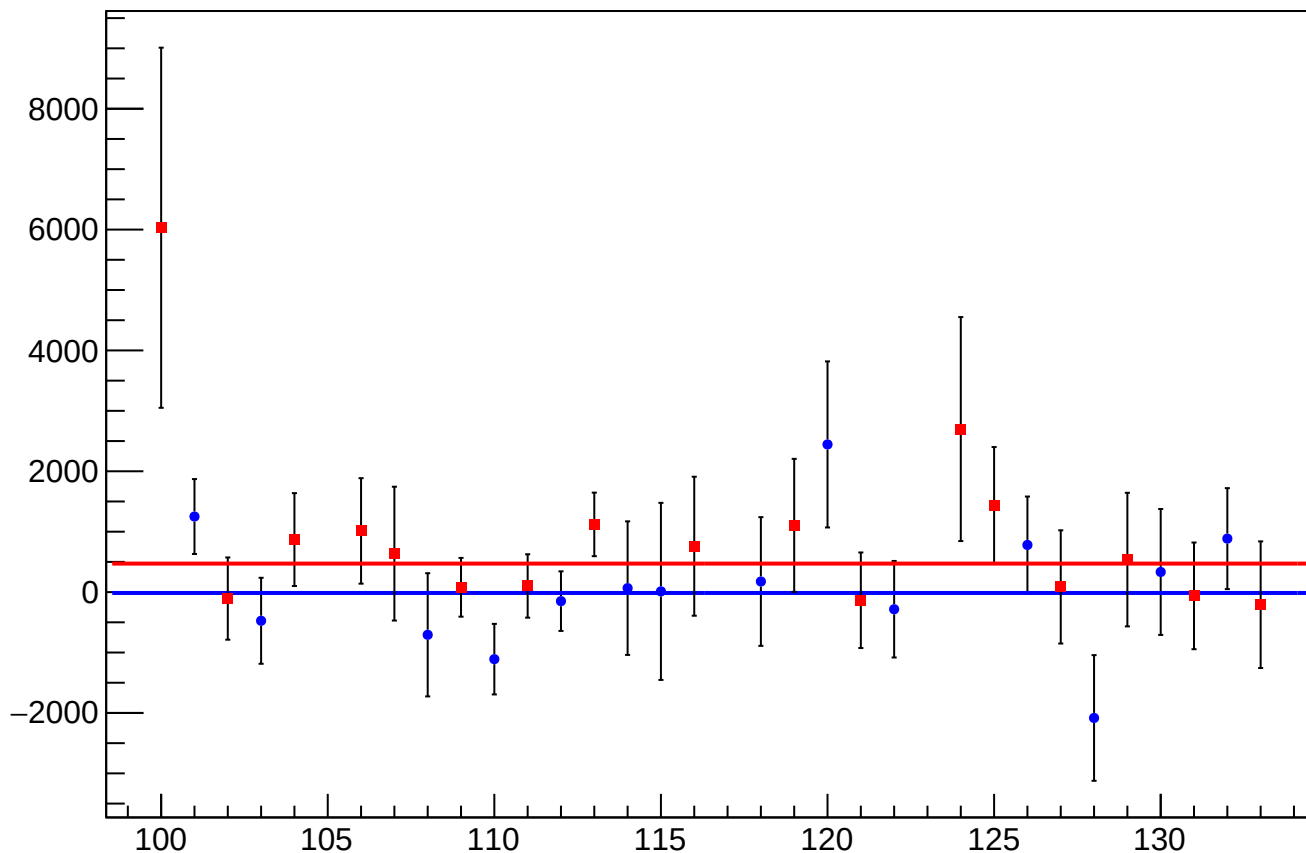
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.952+/-0.010  $\chi^2/\text{NDF}$ : 943740.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In:  $-14.112 \pm 214.770$   $\chi^2/\text{NDF}$ : 18.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $471.851 \pm 195.125$   $\chi^2/\text{NDF}$ : 11.9/16

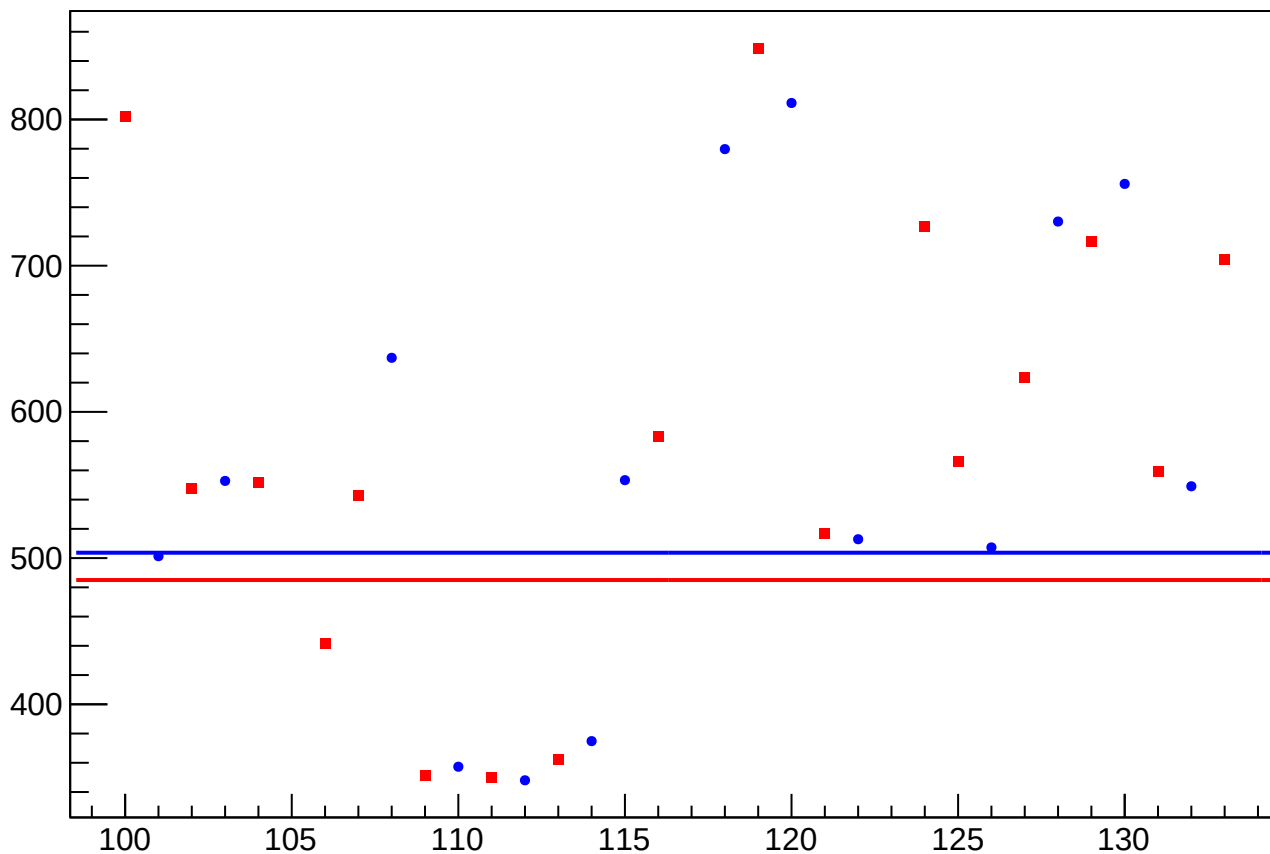
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $252.107 \pm 144.421$   $\chi^2/\text{NDF}$ : 32.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 503.684 $\pm$ 0.152  $\chi^2$ /NDF: 851015.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 485.006 $\pm$ 0.138  $\chi^2$ /NDF: 974105.0/16

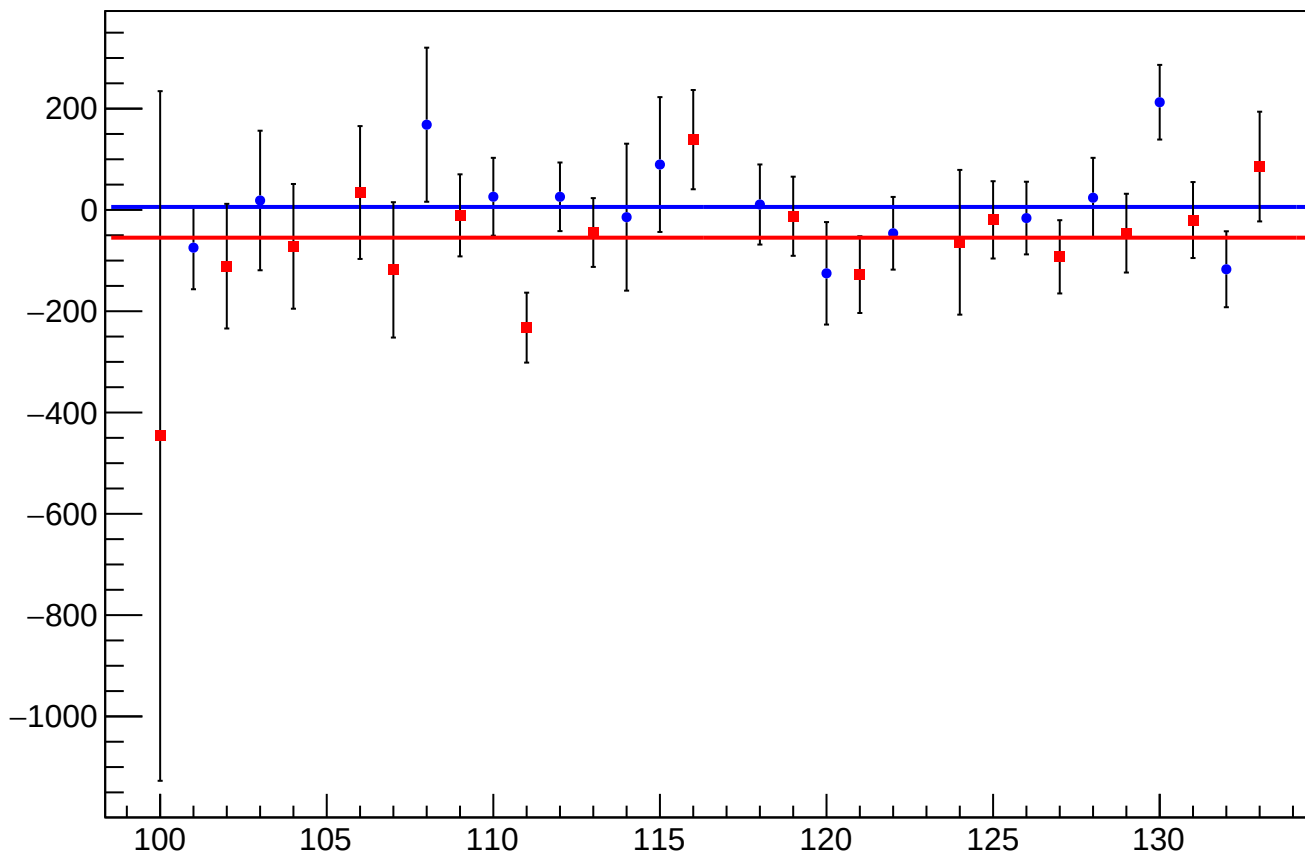
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 493.452 $\pm$ 0.102  $\chi^2$ /NDF: 1833406.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 5.903 $\pm$ 22.914  $\chi^2$ /NDF: 15.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -54.774 $\pm$ 21.771  $\chi^2$ /NDF: 15.7/16

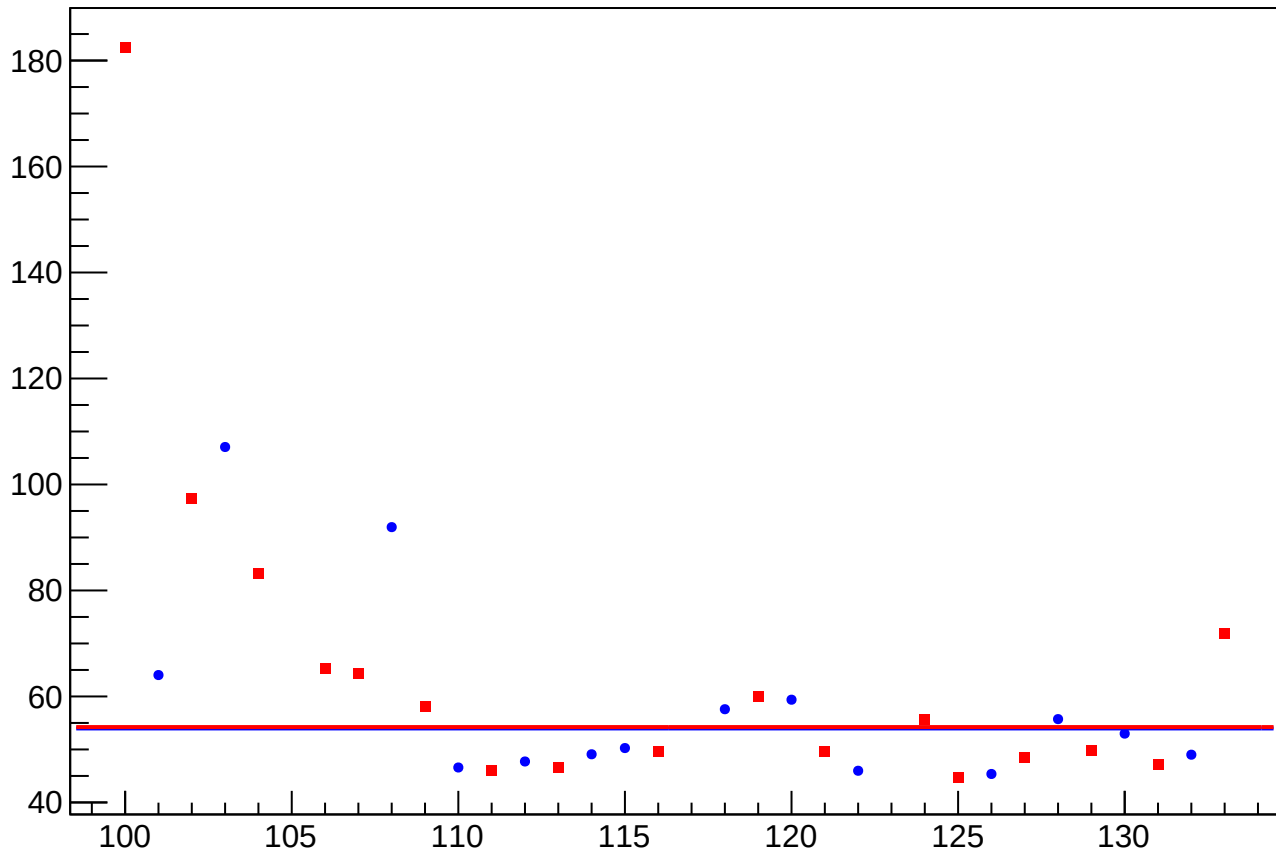
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -25.986 $\pm$ 15.783  $\chi^2$ /NDF: 35.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 53.964 $\pm$ 0.016  $\chi^2$ /NDF: 564681.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.221 $\pm$ 0.015  $\chi^2$ /NDF: 655546.7/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

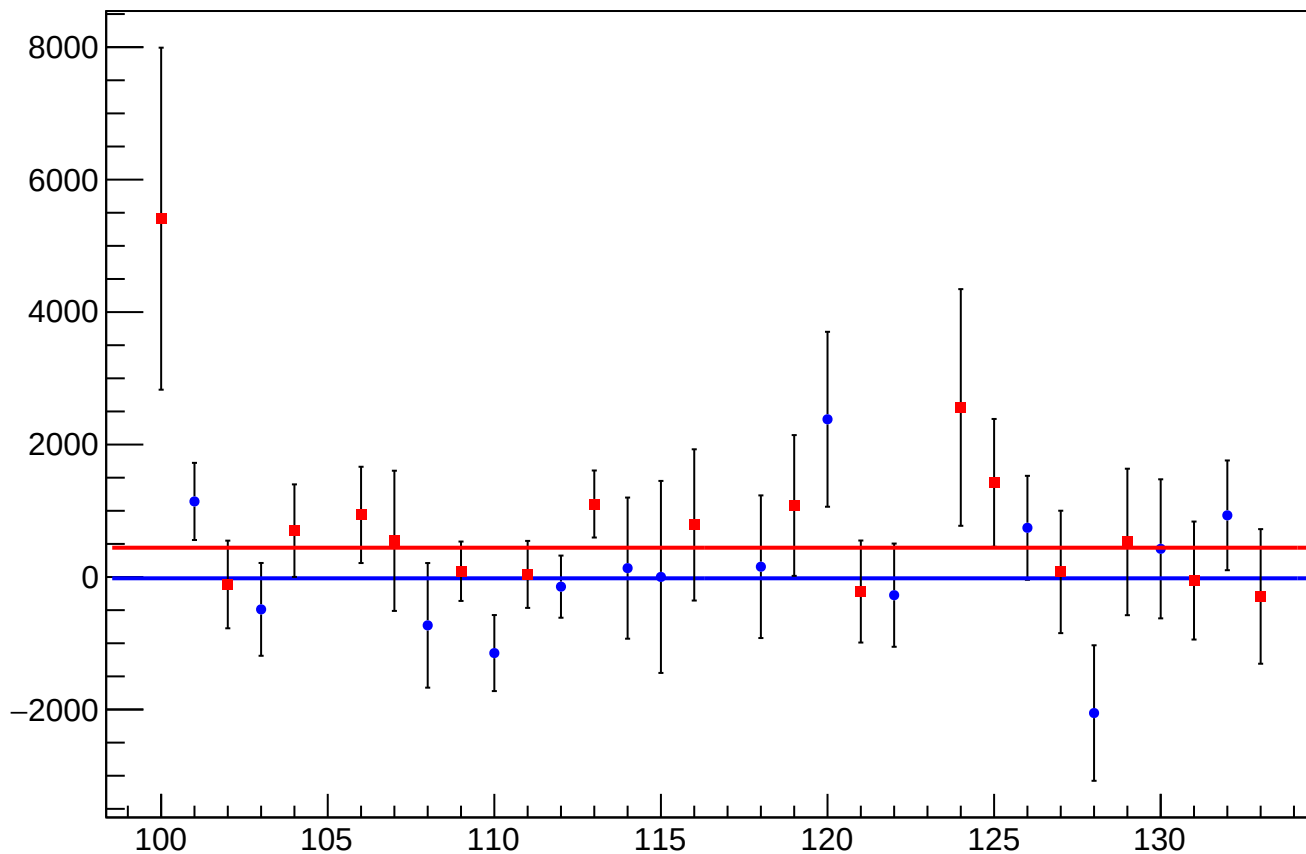
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 54.099 $\pm$ 0.011  $\chi^2$ /NDF: 1220360.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_15\_37\_dd\_dit\_correction\_mean vs Slug



Right In:  $-19.135 \pm 208.159$   $\chi^2/\text{NDF}$ : 18.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $442.776 \pm 185.691$   $\chi^2/\text{NDF}$ : 12.6/16

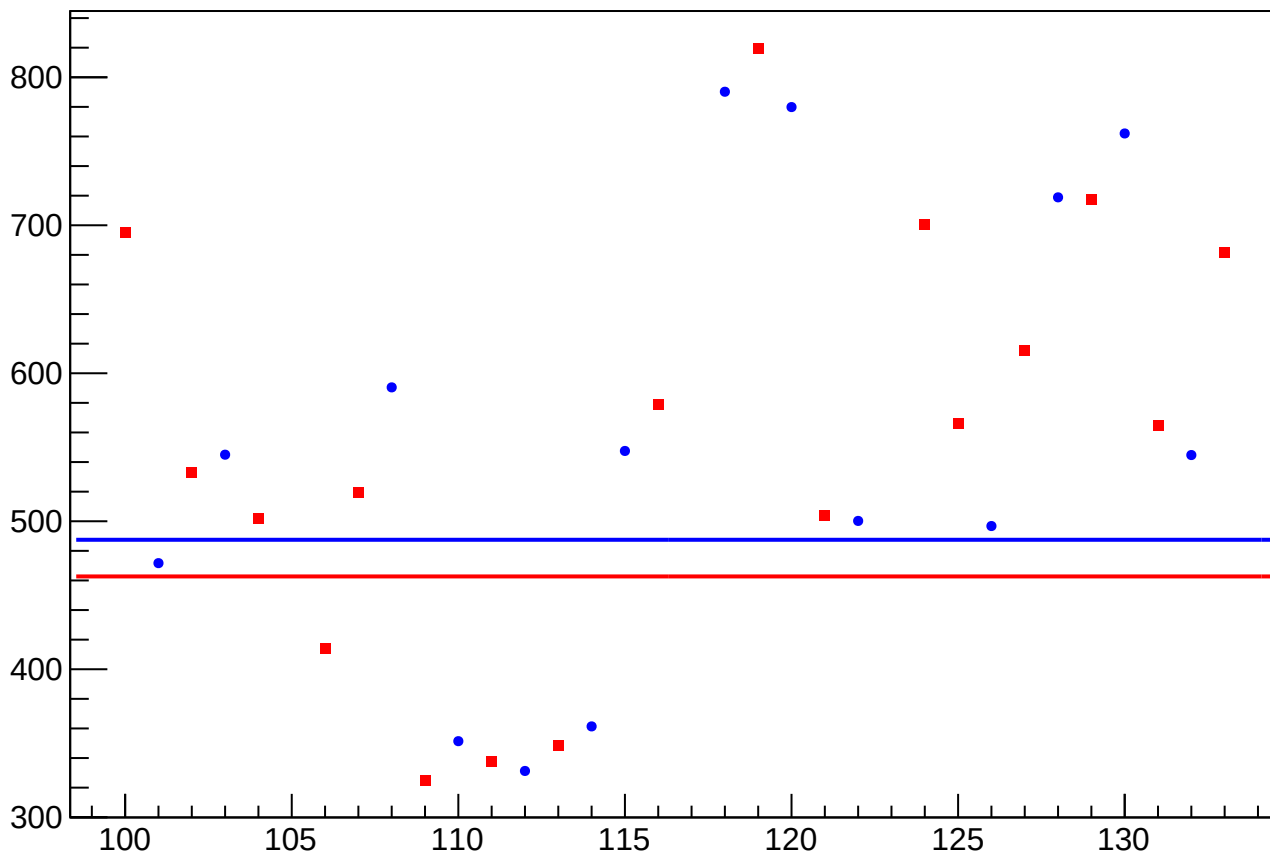
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $238.085 \pm 138.569$   $\chi^2/\text{NDF}$ : 34.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_dit\_correction\_rms vs Slug



Right In: 487.485+/-0.147  $\chi^2/\text{NDF}$ : 910111.3/13

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

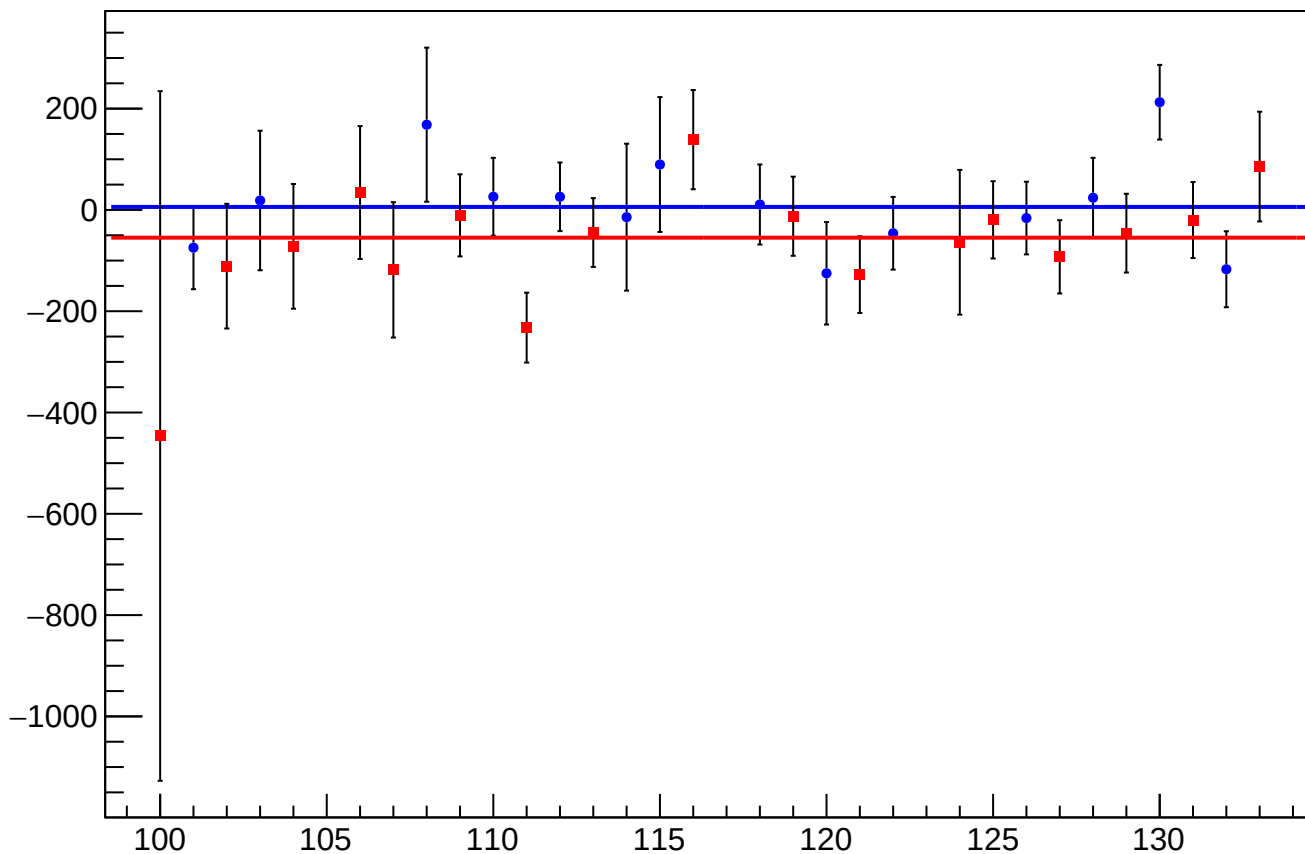
Right Out: 462.718+/-0.131  $\chi^2/\text{NDF}$ : 1062119.6/16

All: 473.693+/-0.098  $\chi^2/\text{NDF}$ : 1987998.3/30

- 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\_15\_37\_dd\_mean vs Slug



Right In:  $5.903 \pm 22.914$   $\chi^2/\text{NDF}$ : 15.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-54.775 \pm 21.771$   $\chi^2/\text{NDF}$ : 15.7/16

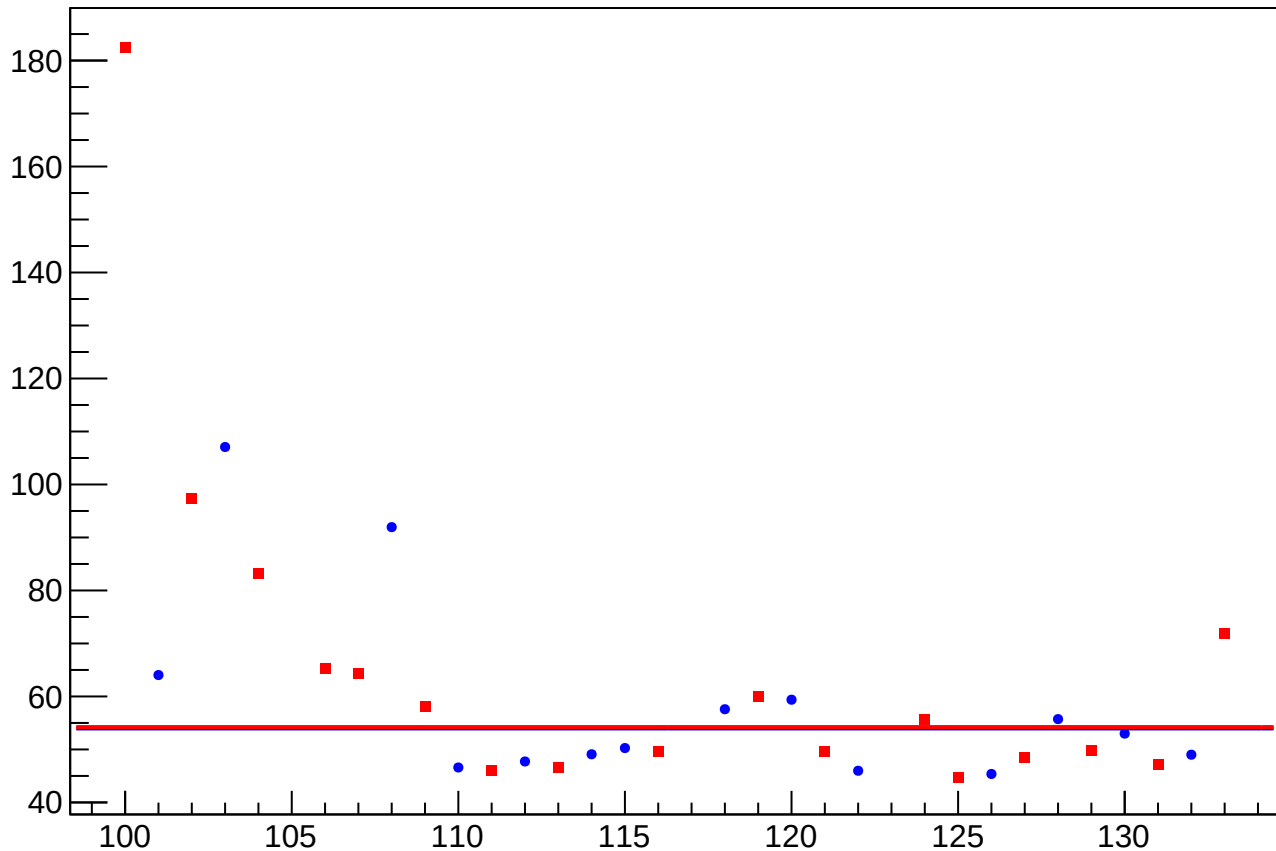
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-25.987 \pm 15.783$   $\chi^2/\text{NDF}$ : 35.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 53.964 $\pm$ 0.016  $\chi^2$ /NDF: 564674.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.222 $\pm$ 0.015  $\chi^2$ /NDF: 655548.2/16

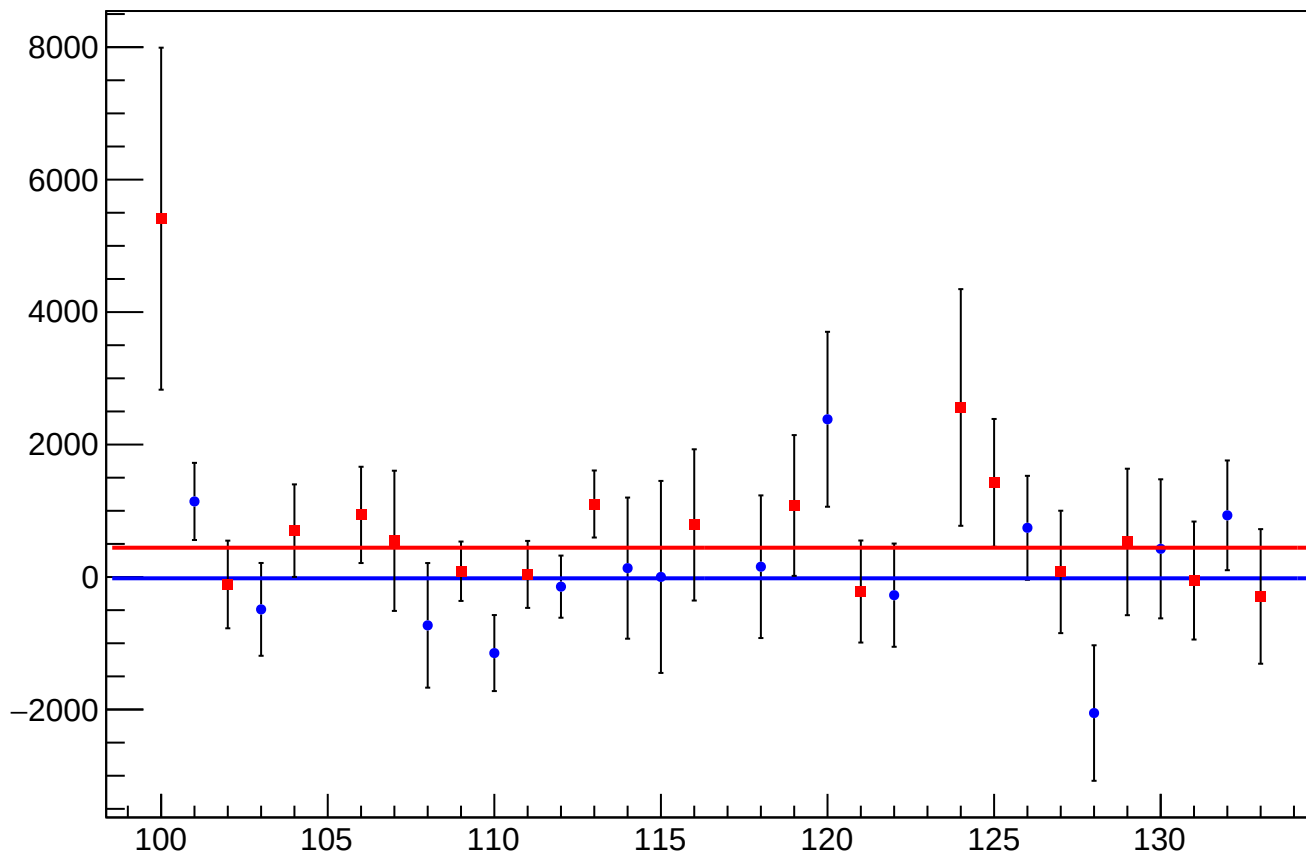
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 54.099 $\pm$ 0.011  $\chi^2$ /NDF: 1220355.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In:  $-19.136 \pm 208.159$   $\chi^2/\text{NDF}$ : 18.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $442.774 \pm 185.691$   $\chi^2/\text{NDF}$ : 12.6/16

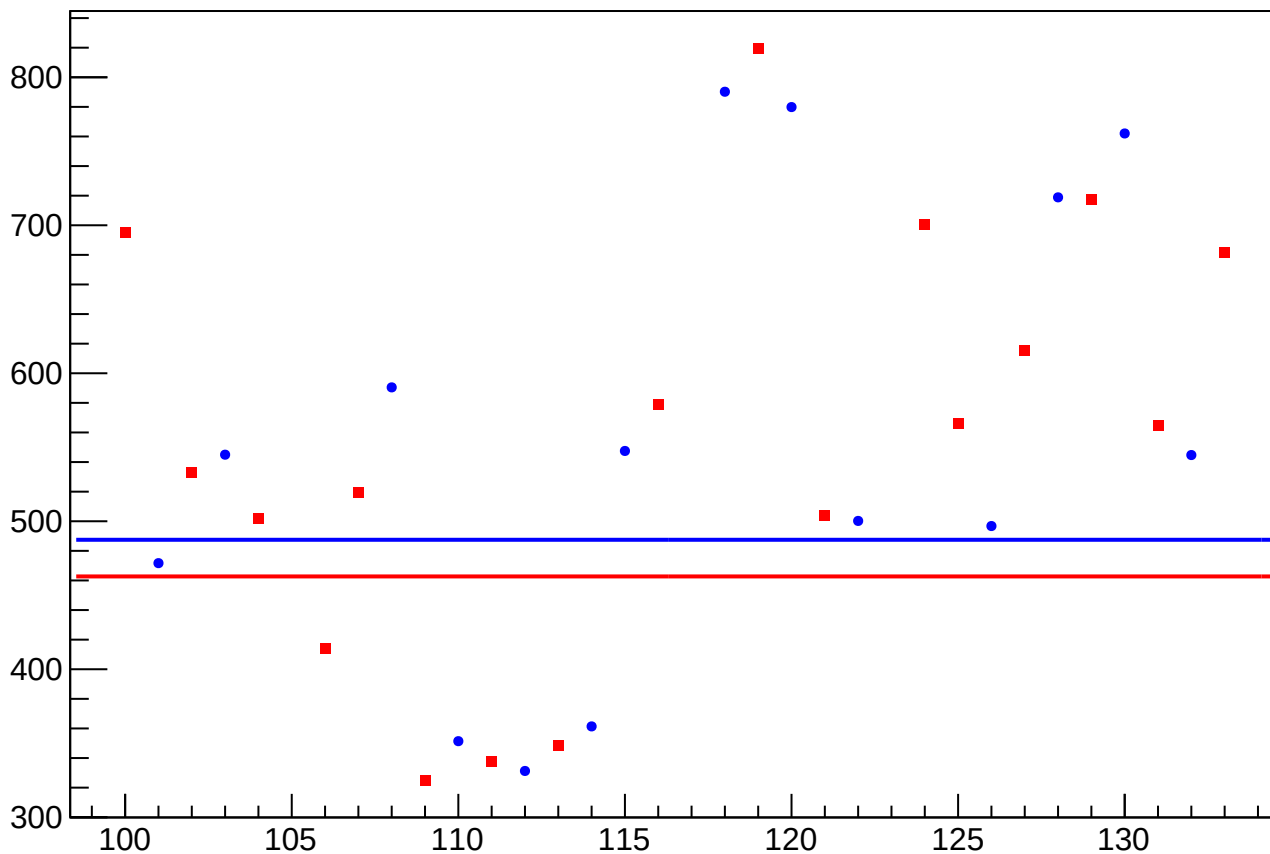
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $238.084 \pm 138.568$   $\chi^2/\text{NDF}$ : 34.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 487.484+/-0.147  $\chi^2/\text{NDF}$ : 910114.7/13

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

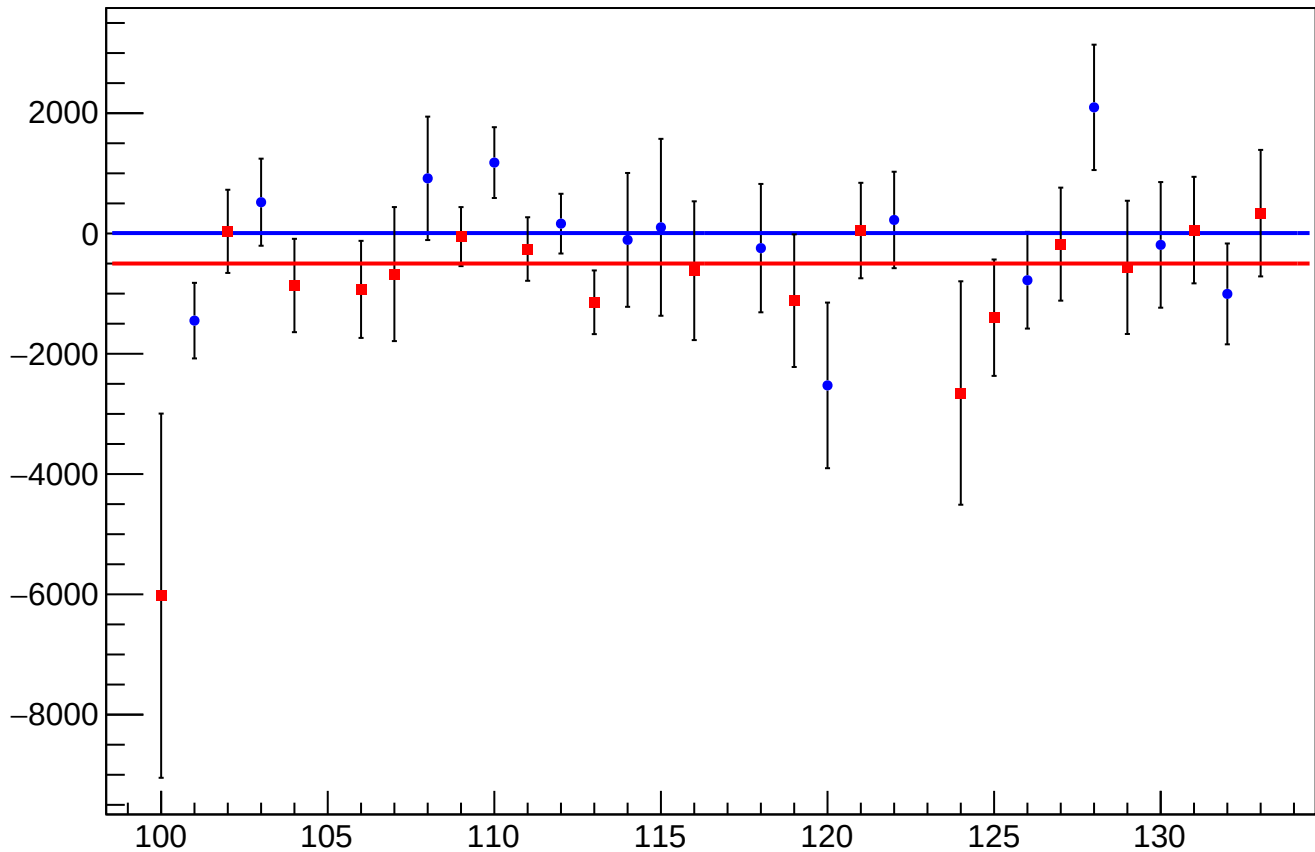
Right Out: 462.717+/-0.131  $\chi^2/\text{NDF}$ : 1062117.5/16

All: 473.692+/-0.098  $\chi^2/\text{NDF}$ : 1987999.2/30

- 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\_37\_dd\_mean vs Slug



Right In: 6.877+/-216.324  $\chi^2/\text{NDF}$ : 20.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -499.596+/-195.557  $\chi^2/\text{NDF}$ : 11.1/16

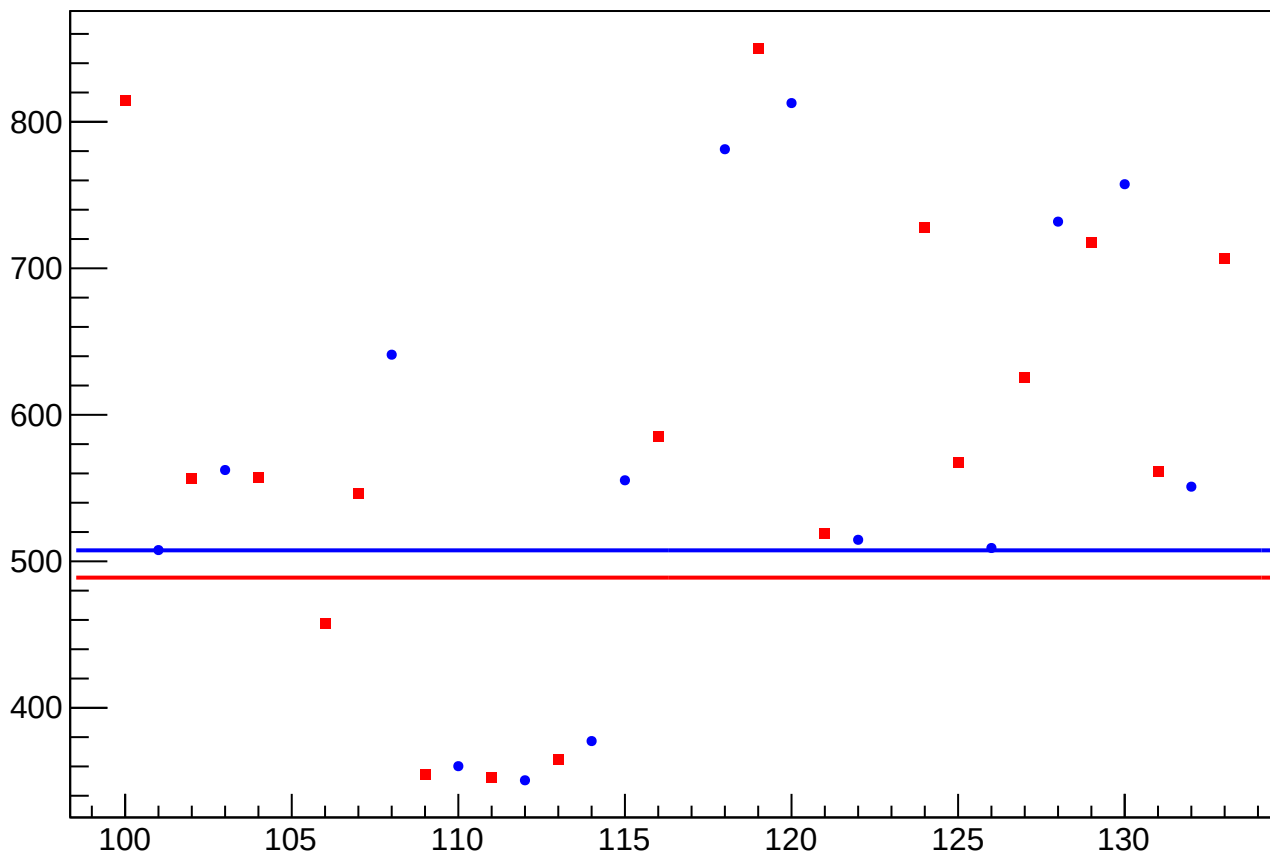
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -271.832+/-145.068  $\chi^2/\text{NDF}$ : 34.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 507.503 $\pm$ 0.153  $\chi^2$ /NDF: 842526.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 488.888 $\pm$ 0.138  $\chi^2$ /NDF: 962701.4/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

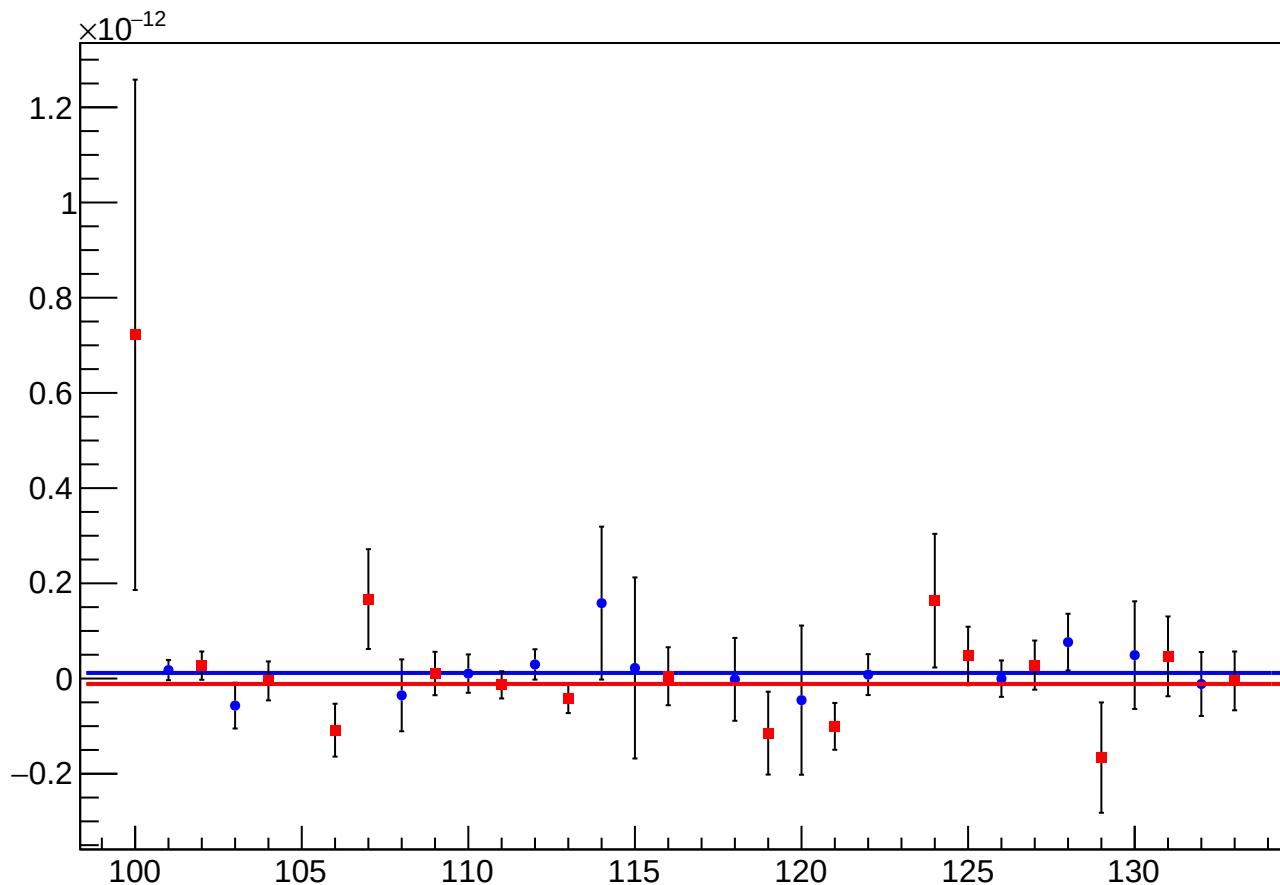
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 497.259 $\pm$ 0.103  $\chi^2$ /NDF: 1813377.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_sam\_15\_37\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.9/16

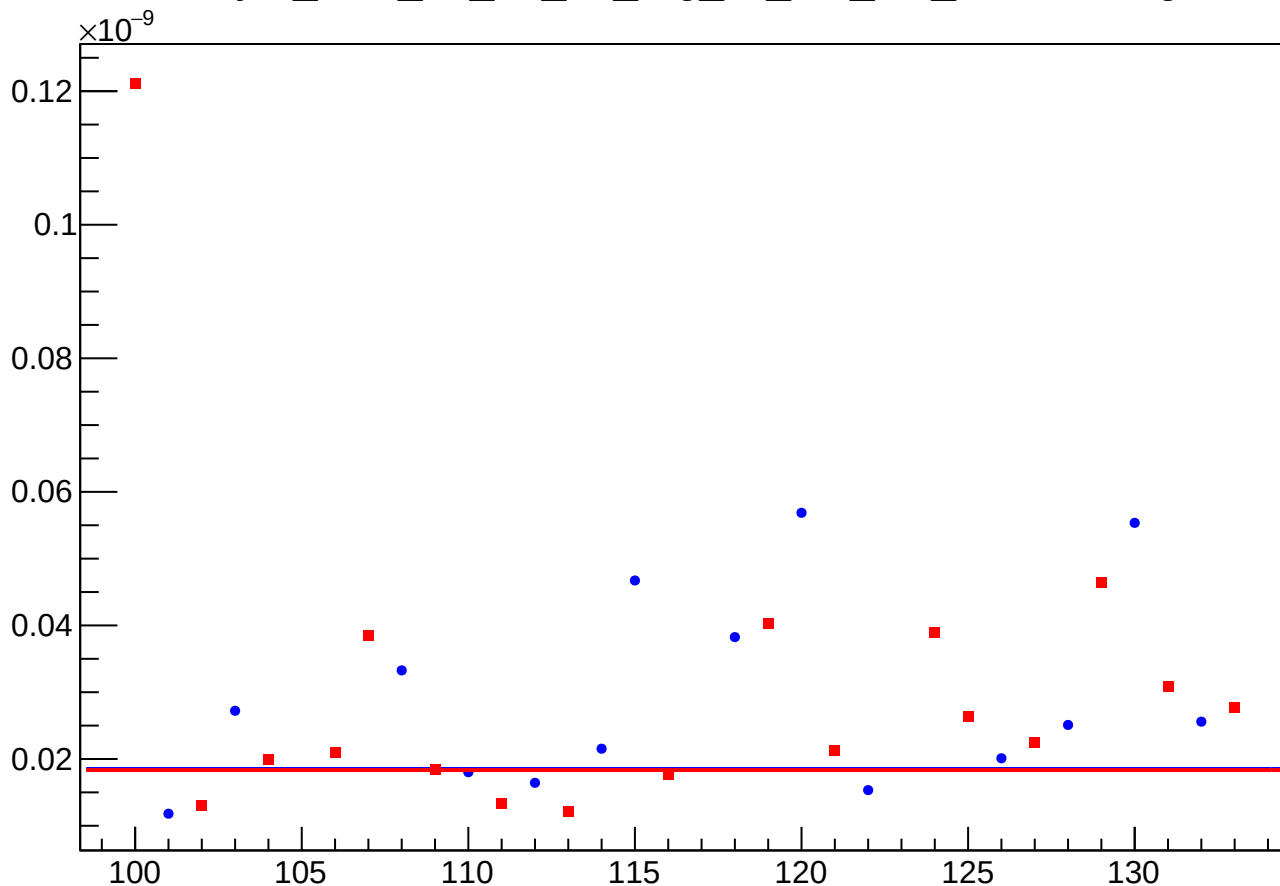
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 28.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_37\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 890594.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 794168.8/16

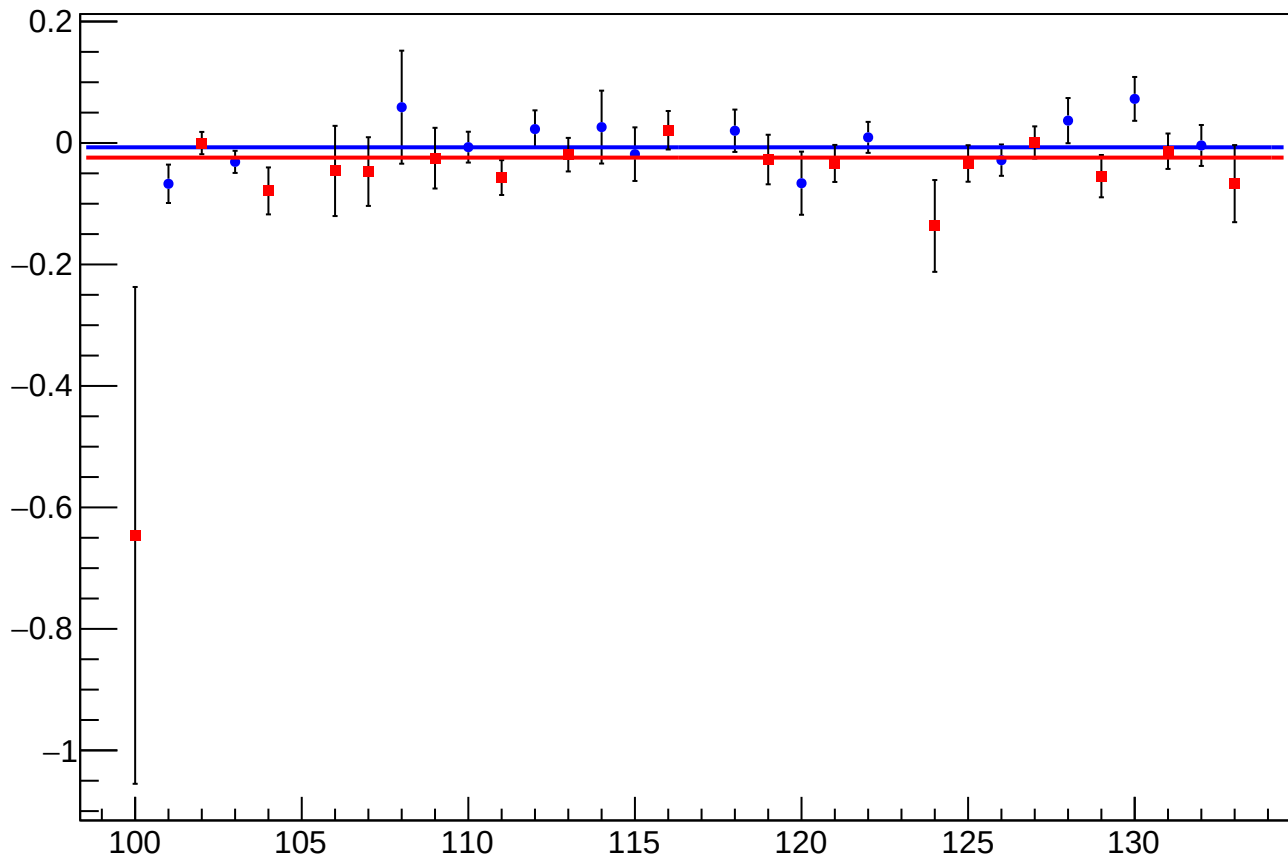
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1684925.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.007 \pm 0.008$   $\chi^2/\text{NDF}$ : 16.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.024 \pm 0.008$   $\chi^2/\text{NDF}$ : 14.3/16

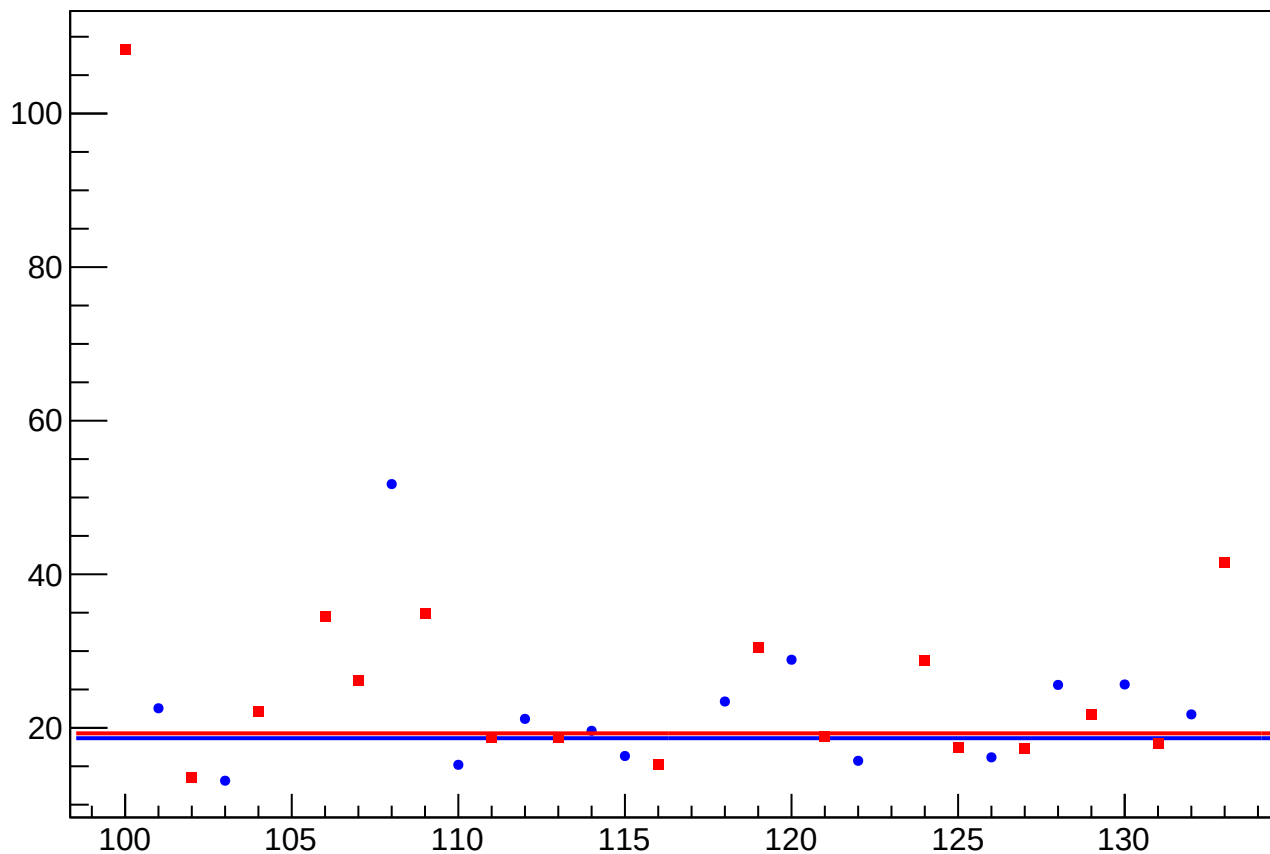
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.016 \pm 0.006$   $\chi^2/\text{NDF}$ : 32.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 18.655+/-0.006  $\chi^2/\text{NDF}$ : 846289.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.287+/-0.006  $\chi^2/\text{NDF}$ : 1098735.1/16

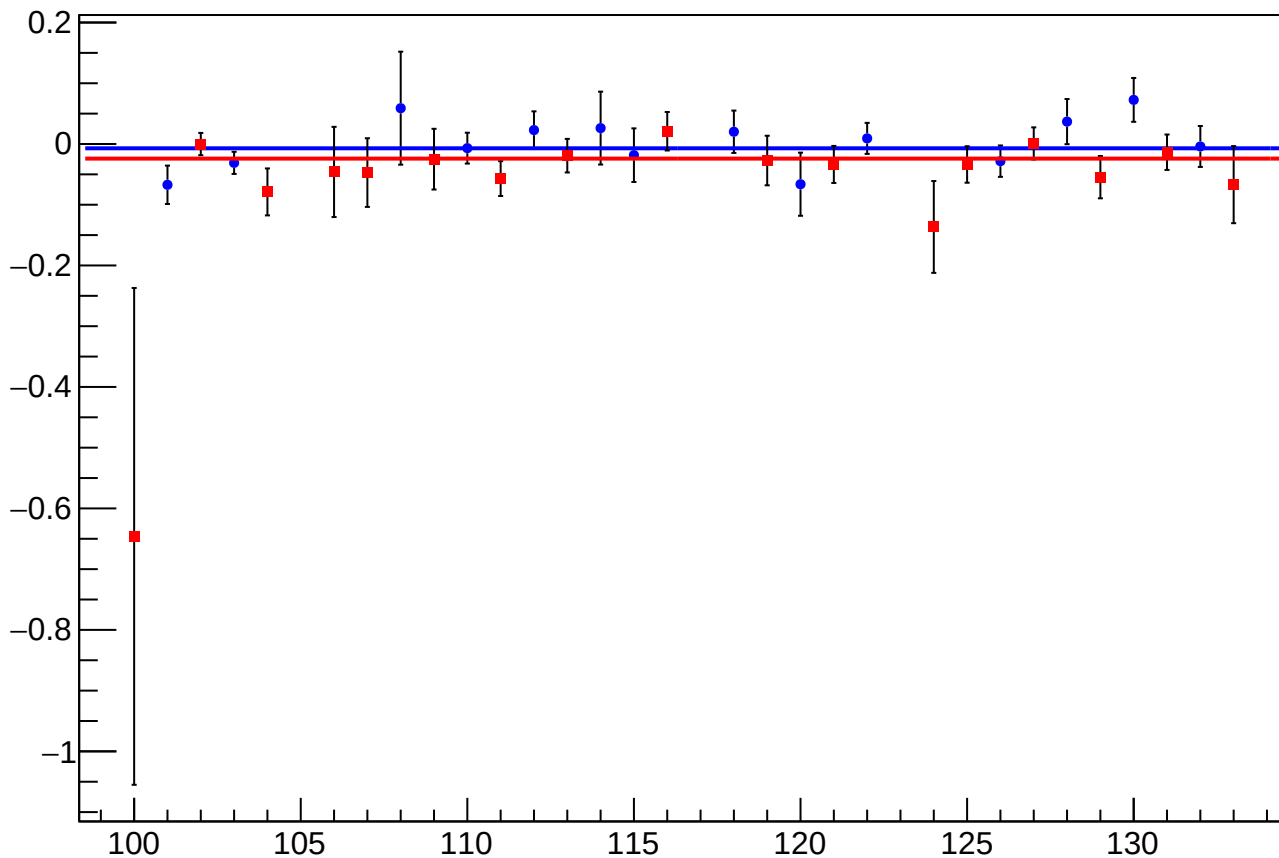
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.977+/-0.004  $\chi^2/\text{NDF}$ : 1950792.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.007 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 16.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.024 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 14.3/16

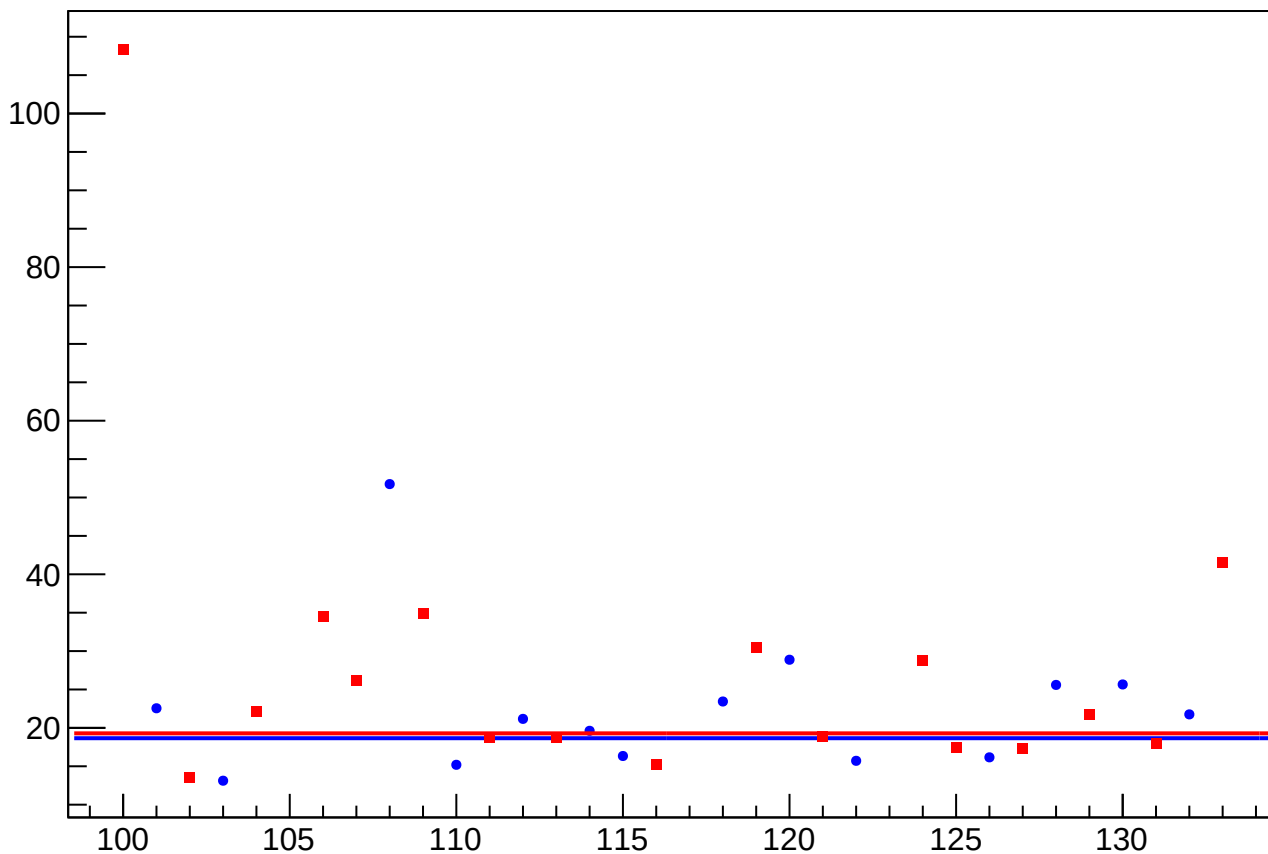
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.016 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 32.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 18.655+/-0.006  $\chi^2$ /NDF: 846289.5/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 19.287+/-0.006  $\chi^2$ /NDF: 1098735.1/16

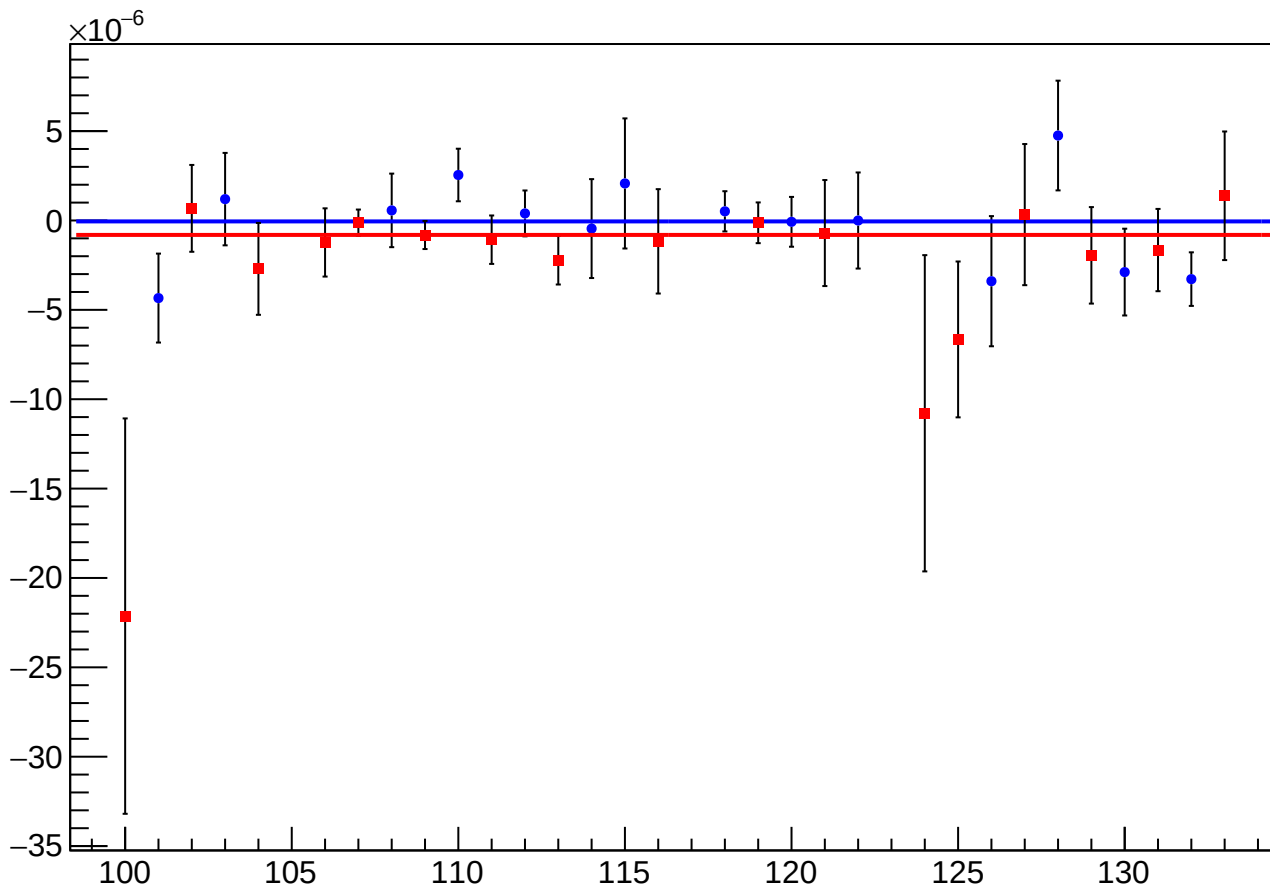
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 18.977+/-0.004  $\chi^2$ /NDF: 1950792.1/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 16.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.9/16

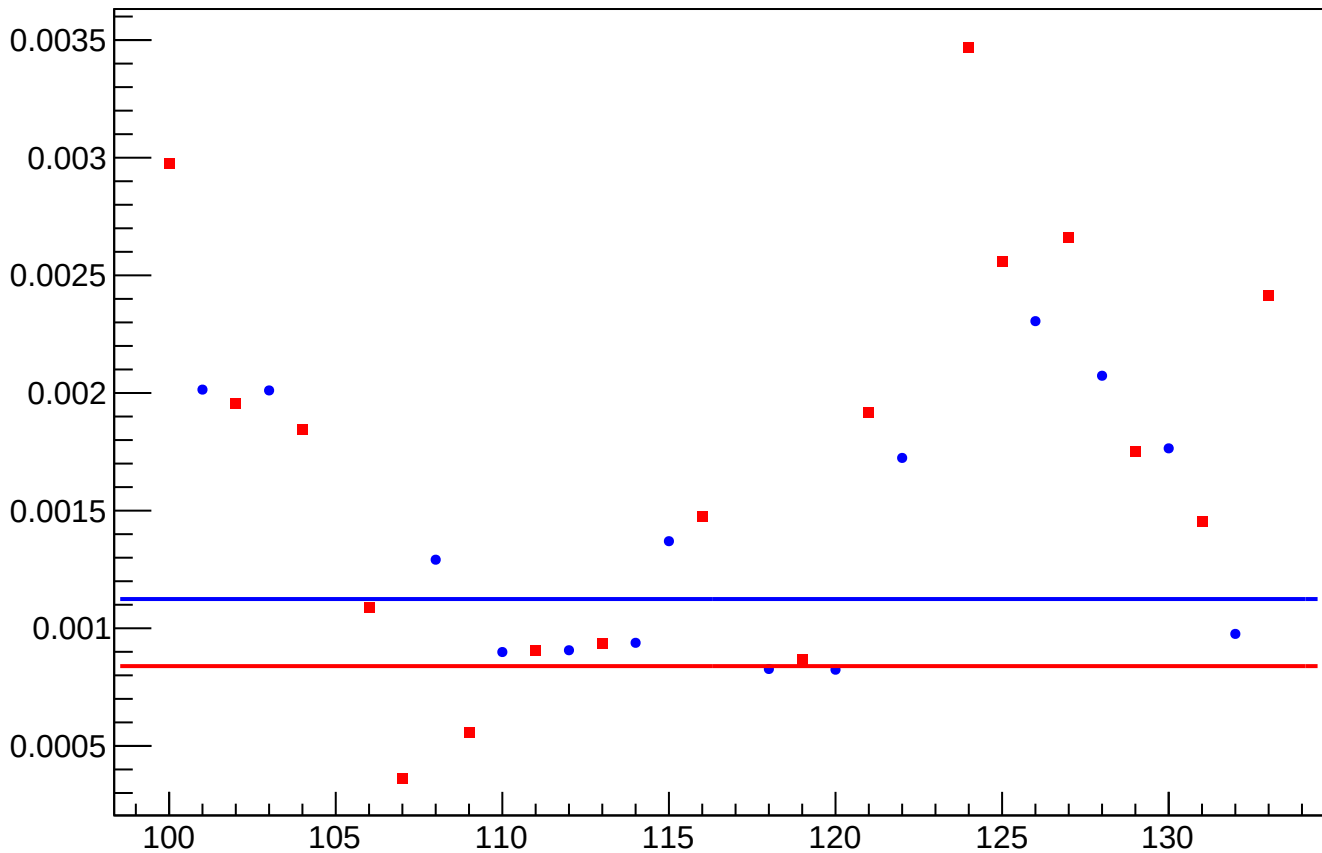
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 28.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1519536.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3982919.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

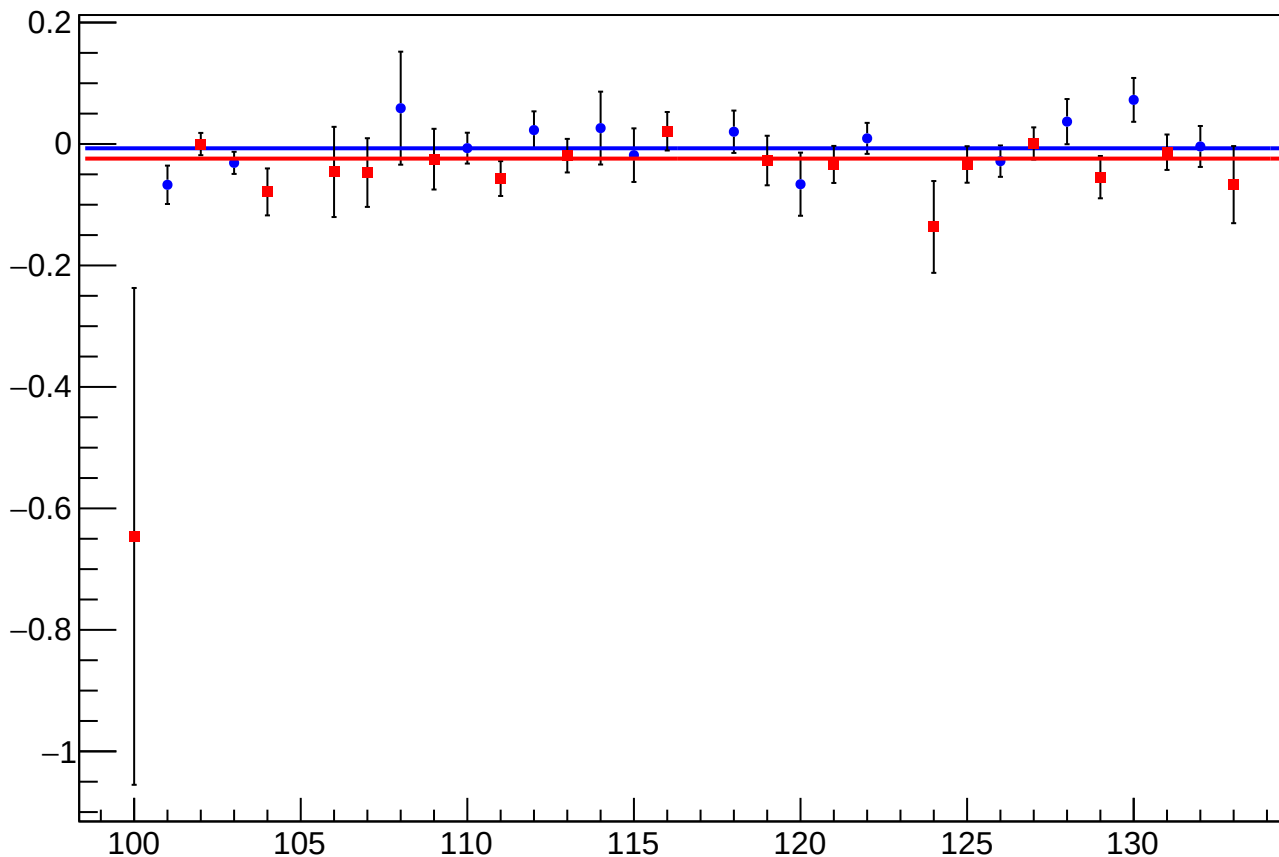
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5913425.3/30

- 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:  $-0.007 \pm 0.008$   $\chi^2/\text{NDF}$ : 16.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.024 \pm 0.008$   $\chi^2/\text{NDF}$ : 14.3/16

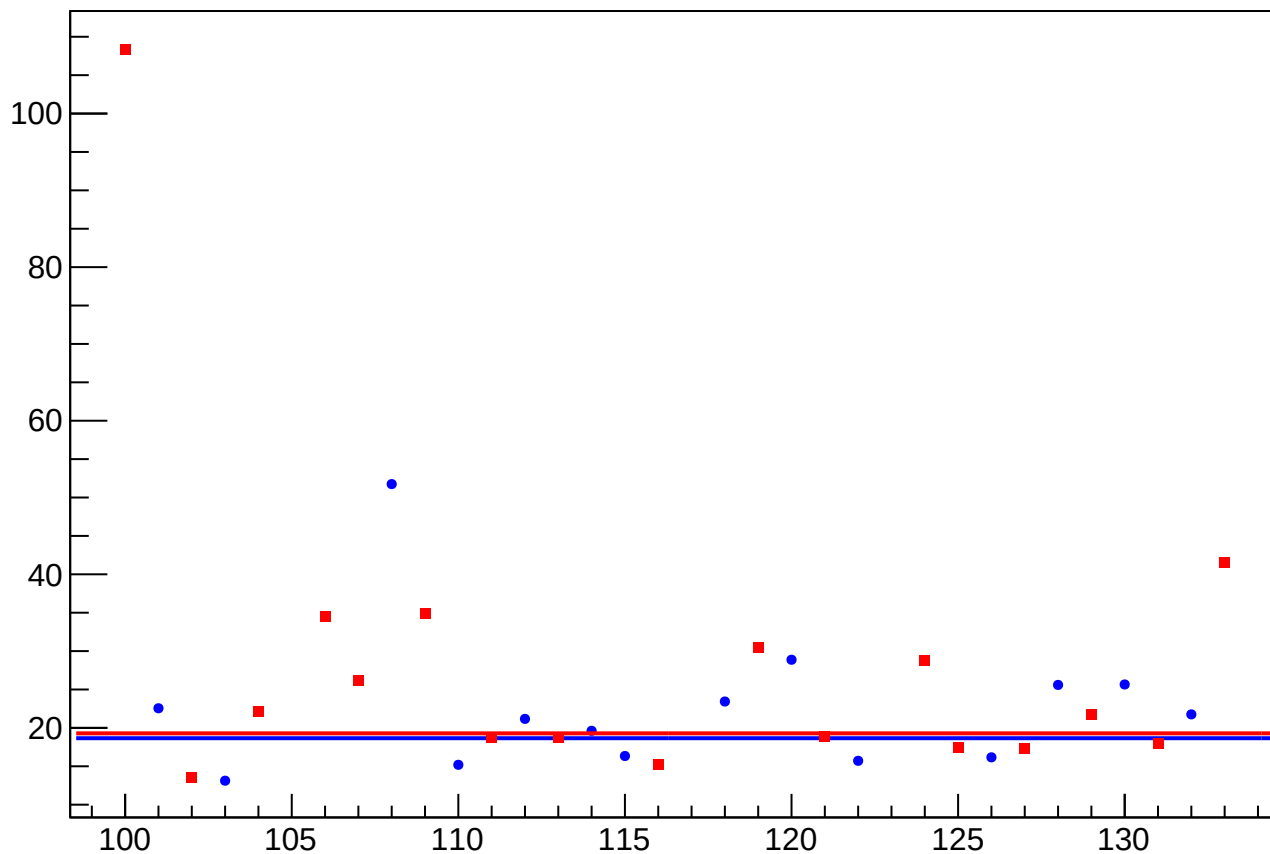
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.016 \pm 0.006$   $\chi^2/\text{NDF}$ : 32.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 18.655+/-0.006  $\chi^2/\text{NDF}$ : 846159.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.288+/-0.006  $\chi^2/\text{NDF}$ : 1098595.6/16

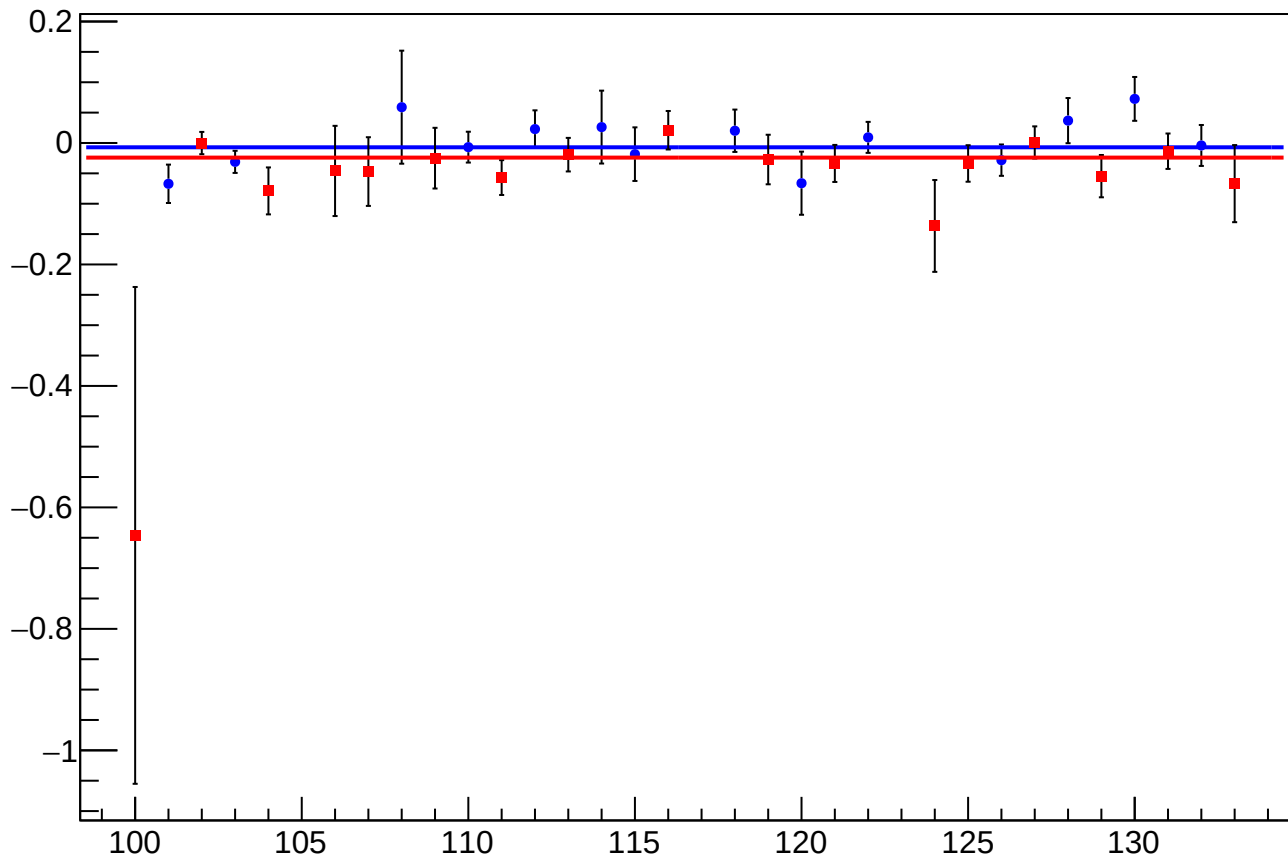
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.978+/-0.004  $\chi^2/\text{NDF}$ : 1950521.3/30

- 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: -0.007 $\pm$ 0.008  $\chi^2$ /NDF: 16.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.024 $\pm$ 0.008  $\chi^2$ /NDF: 14.3/16

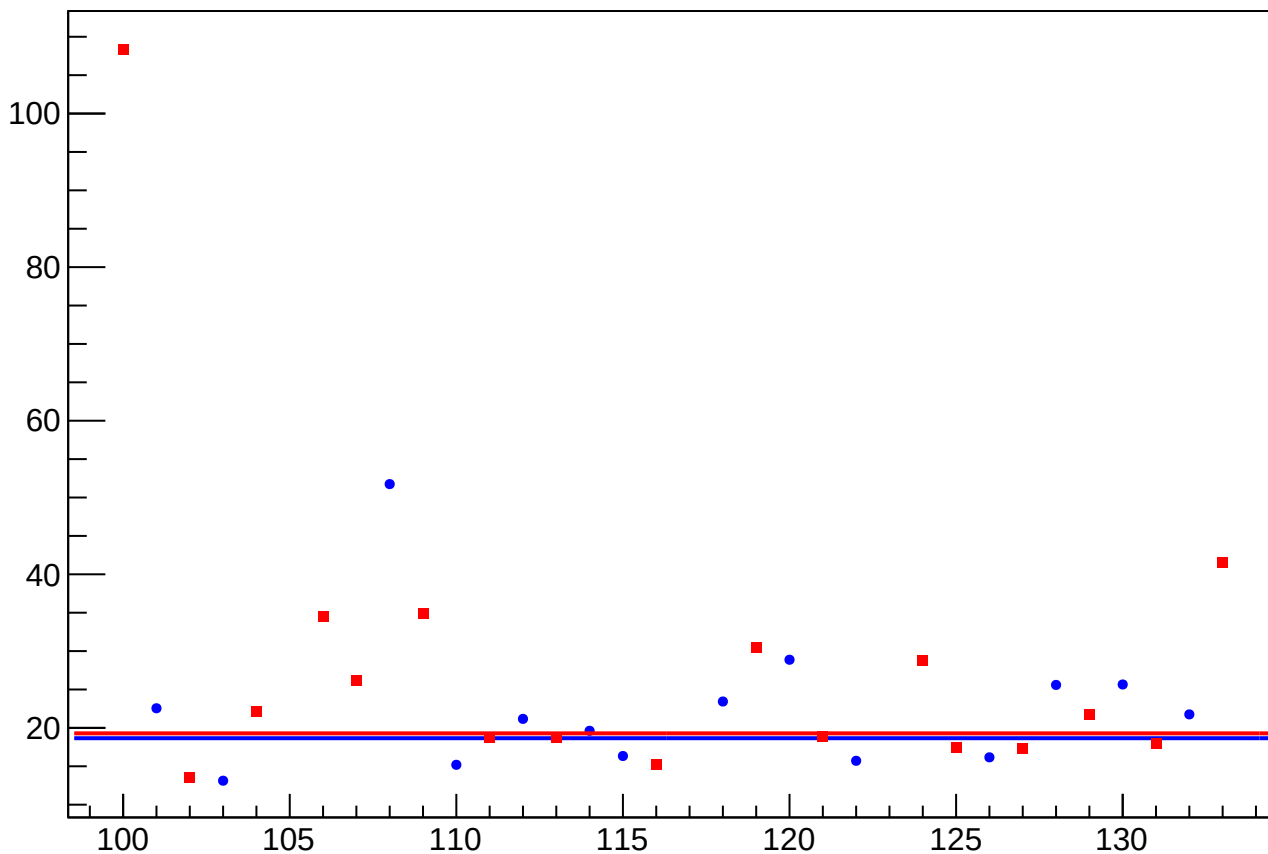
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.016 $\pm$ 0.006  $\chi^2$ /NDF: 32.8/30

- 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: 18.655+/-0.006  $\chi^2/\text{NDF}$ : 846159.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.288+/-0.006  $\chi^2/\text{NDF}$ : 1098595.6/16

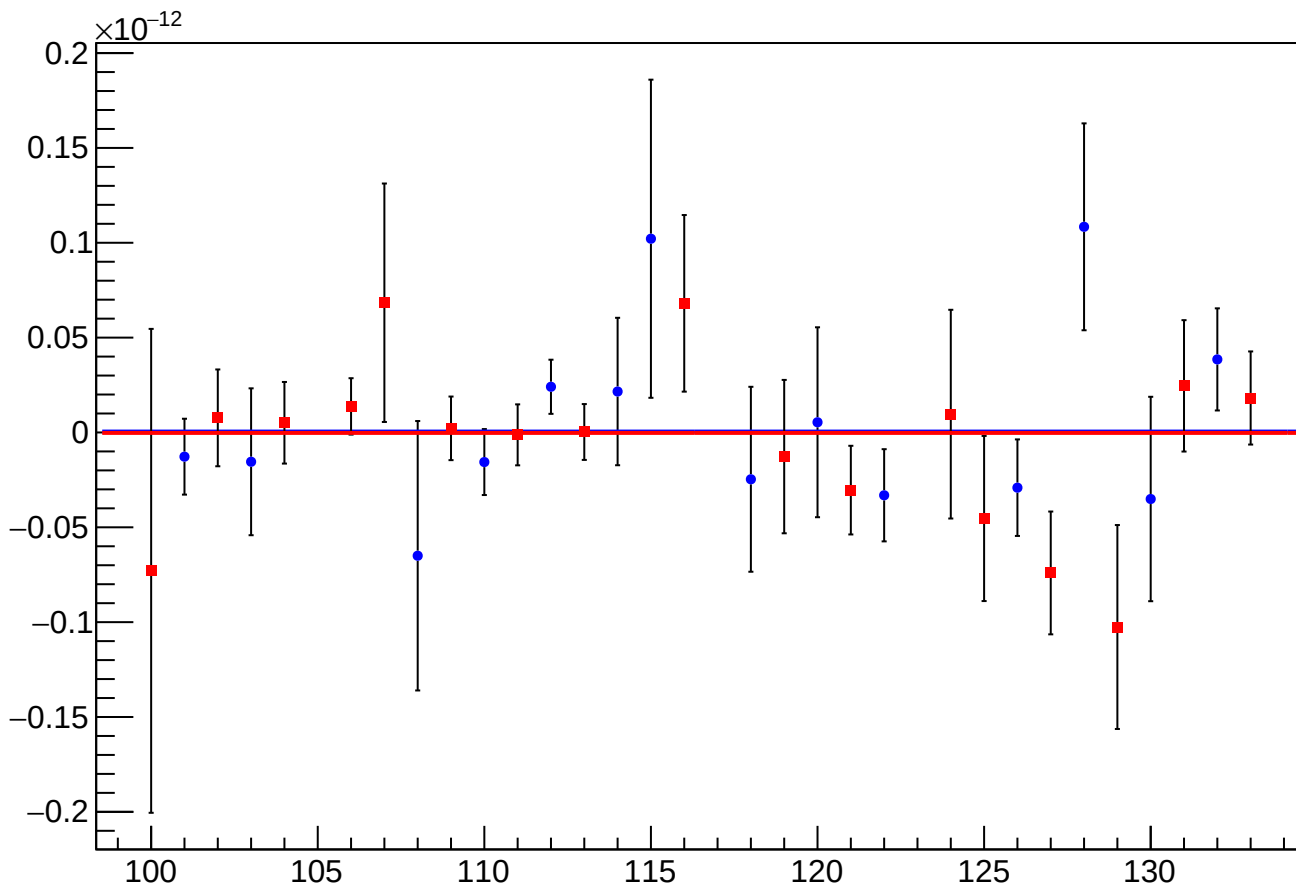
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.978+/-0.004  $\chi^2/\text{NDF}$ : 1950521.3/30

- 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  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.5/16

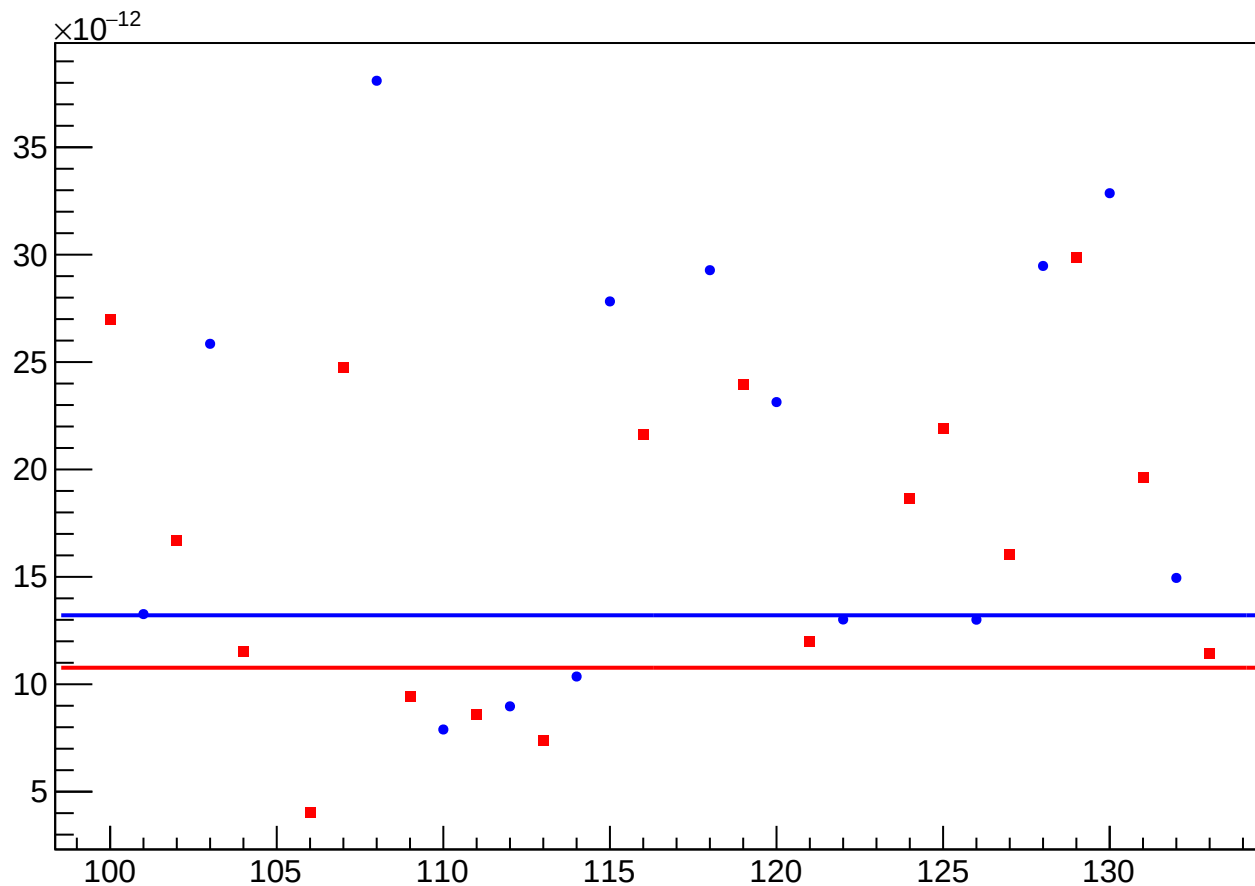
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 34.2/30

- 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+/-0.000  $\chi^2/\text{NDF}$ : 1642185.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1745458.7/16

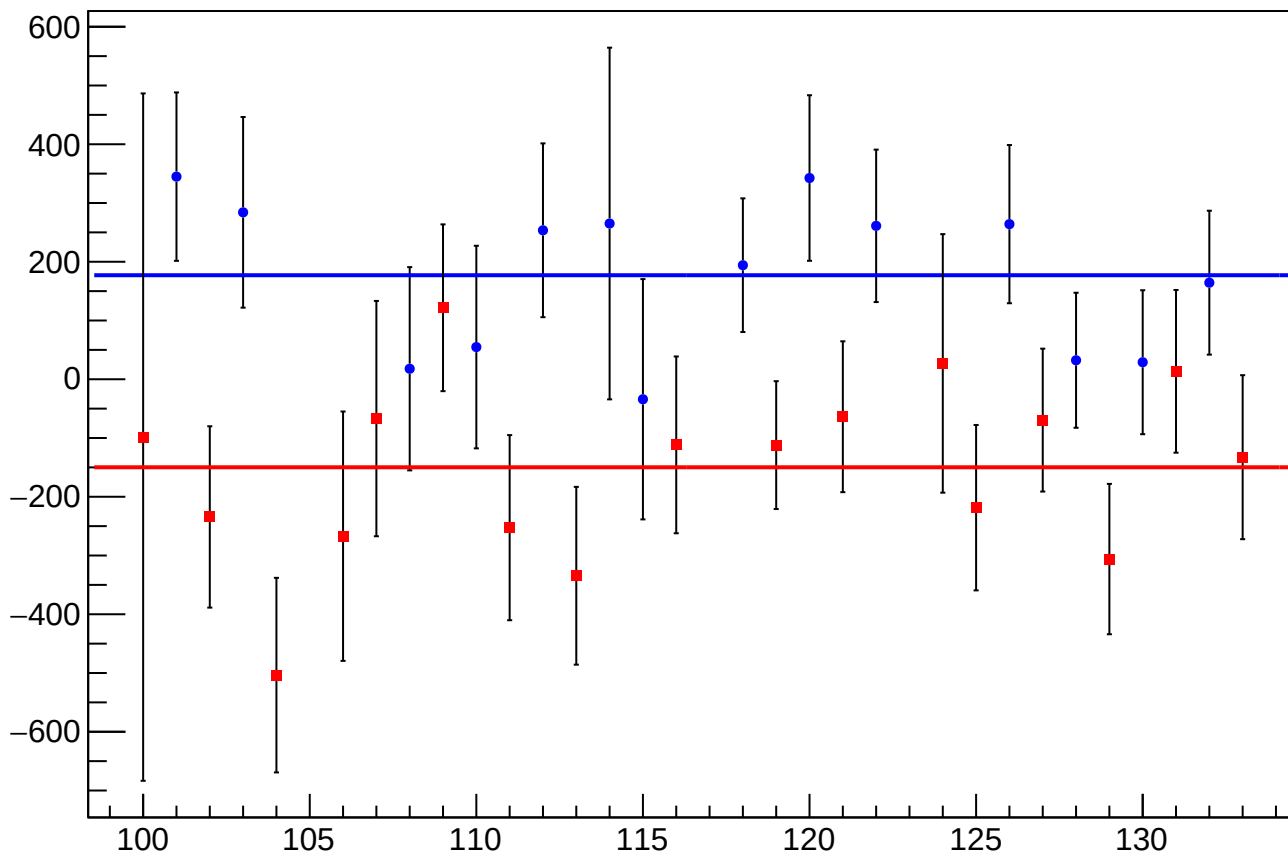
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3520713.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 177.071 $\pm$ 38.187  $\chi^2$ /NDF: 9.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -149.843 $\pm$ 36.400  $\chi^2$ /NDF: 15.8/16

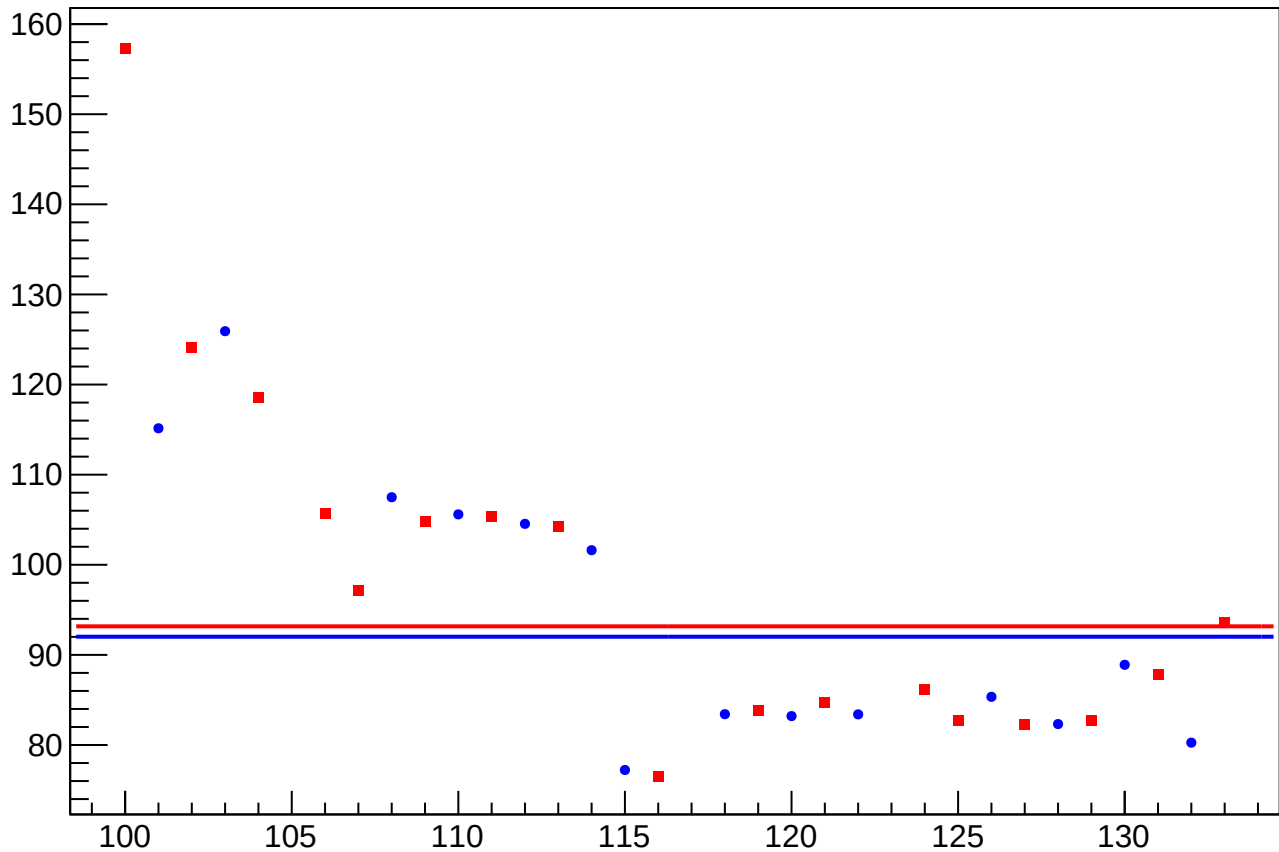
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.787 $\pm$ 26.348  $\chi^2$ /NDF: 64.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 92.017+/-0.027  $\chi^2/\text{NDF}$ : 261576.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 93.170+/-0.026  $\chi^2/\text{NDF}$ : 288317.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

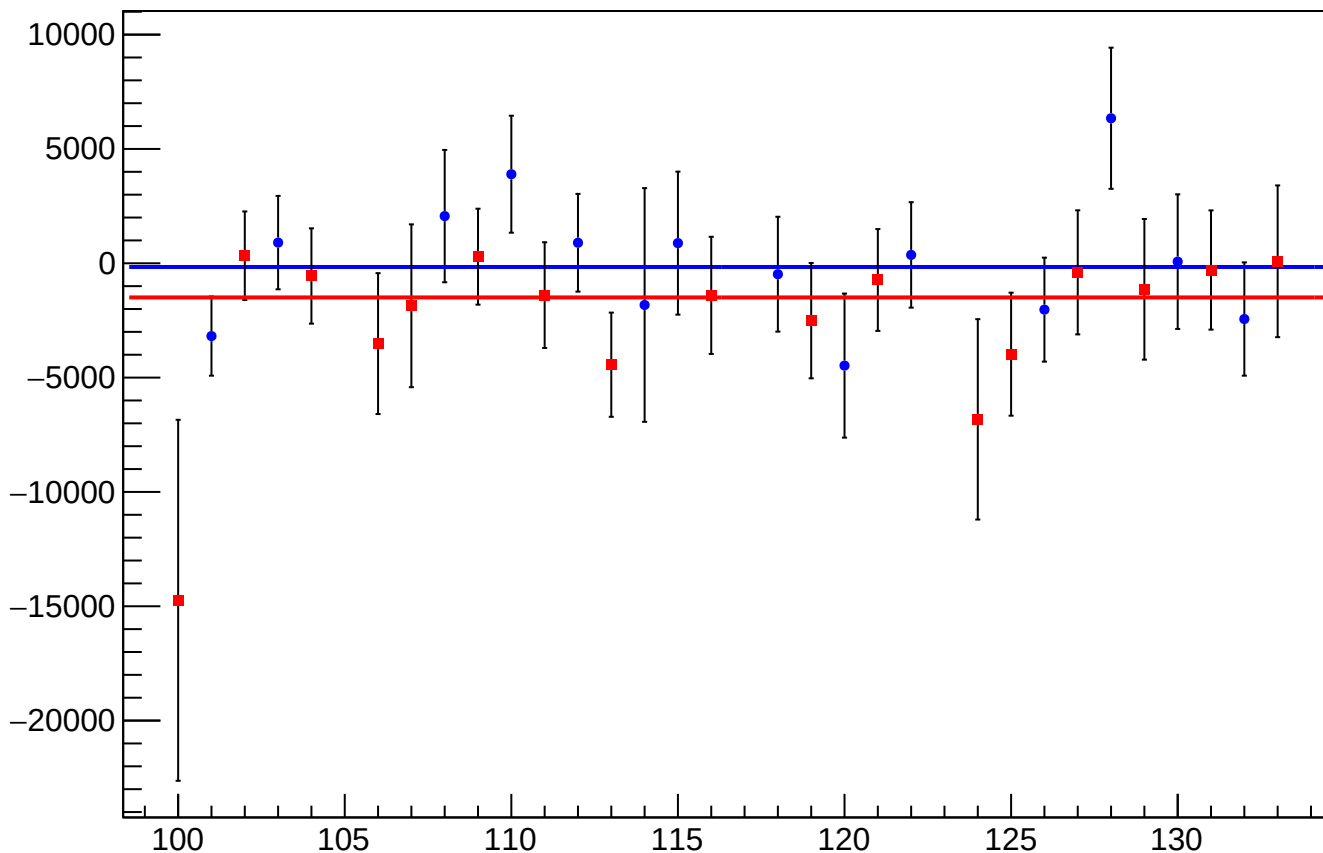
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 92.621+/-0.019  $\chi^2/\text{NDF}$ : 550849.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_24\_68\_dd\_reg\_correction\_mean vs Slug



Right In: -161.801+/-669.796  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1493.570+/-634.340  $\chi^2$ /NDF: 10.0/16

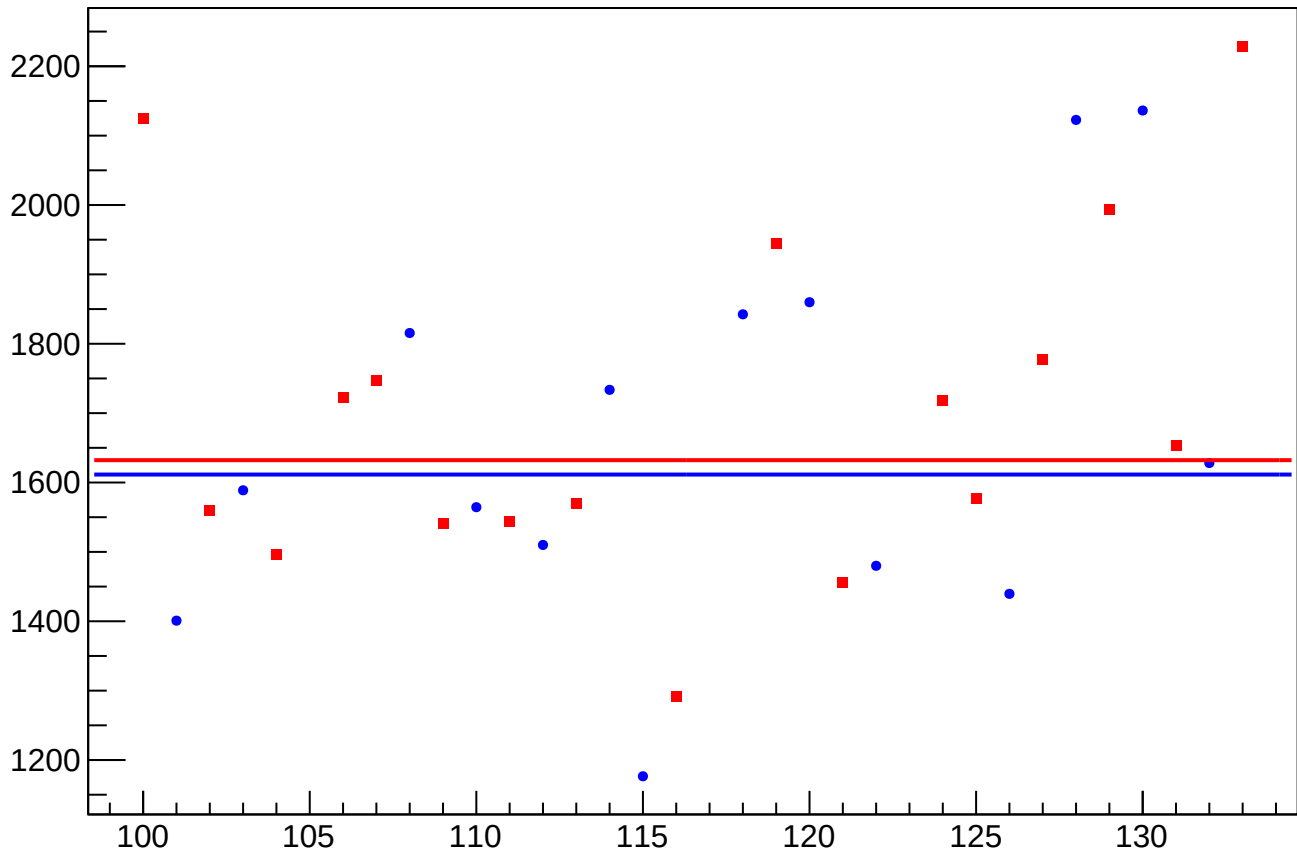
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -863.867+/-460.571  $\chi^2$ /NDF: 26.8/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_reg\_correction\_rms vs Slug



Right In: 1611.481+/-0.474  $\chi^2/\text{NDF}$ : 250551.1/13

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

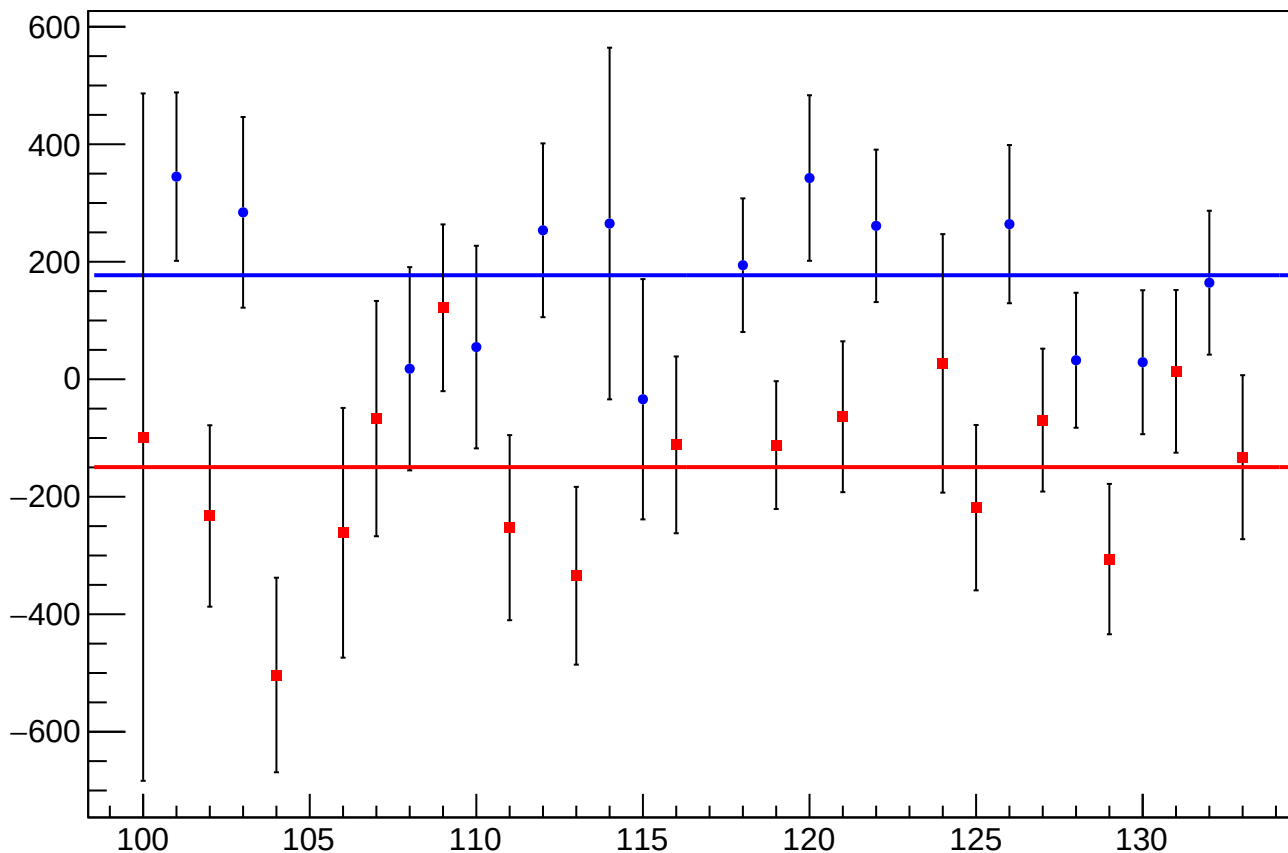
Right Out: 1632.212+/-0.449  $\chi^2/\text{NDF}$ : 209441.7/16

All: 1622.410+/-0.326  $\chi^2/\text{NDF}$ : 461002.9/30

- 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\_sam\_24\_68\_dd\_mean vs Slug



Right In: 177.067 $\pm$ 38.187  $\chi^2$ /NDF: 9.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -149.554 $\pm$ 36.403  $\chi^2$ /NDF: 15.7/16

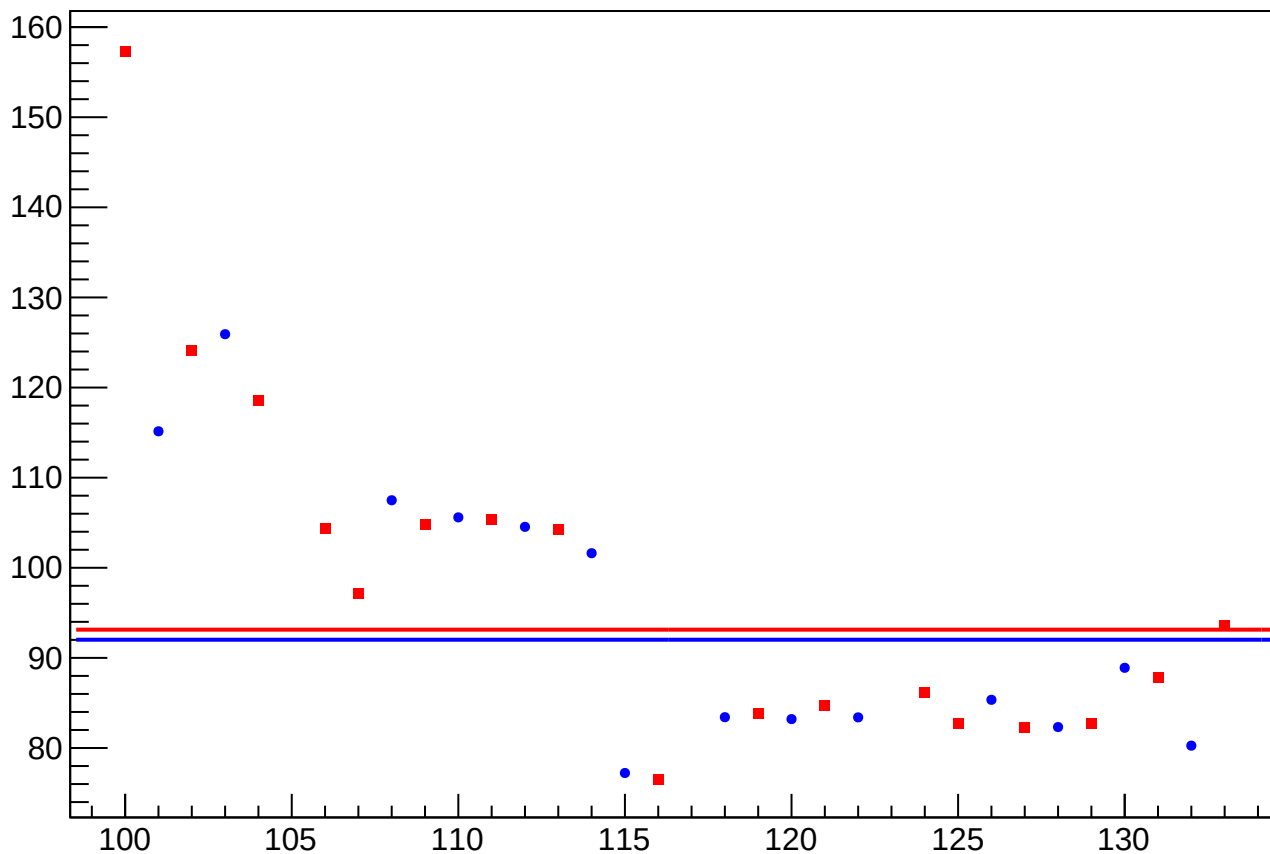
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.948 $\pm$ 26.349  $\chi^2$ /NDF: 63.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 92.017 $\pm$ 0.027  $\chi^2$ /NDF: 261578.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 93.133 $\pm$ 0.026  $\chi^2$ /NDF: 287169.0/16

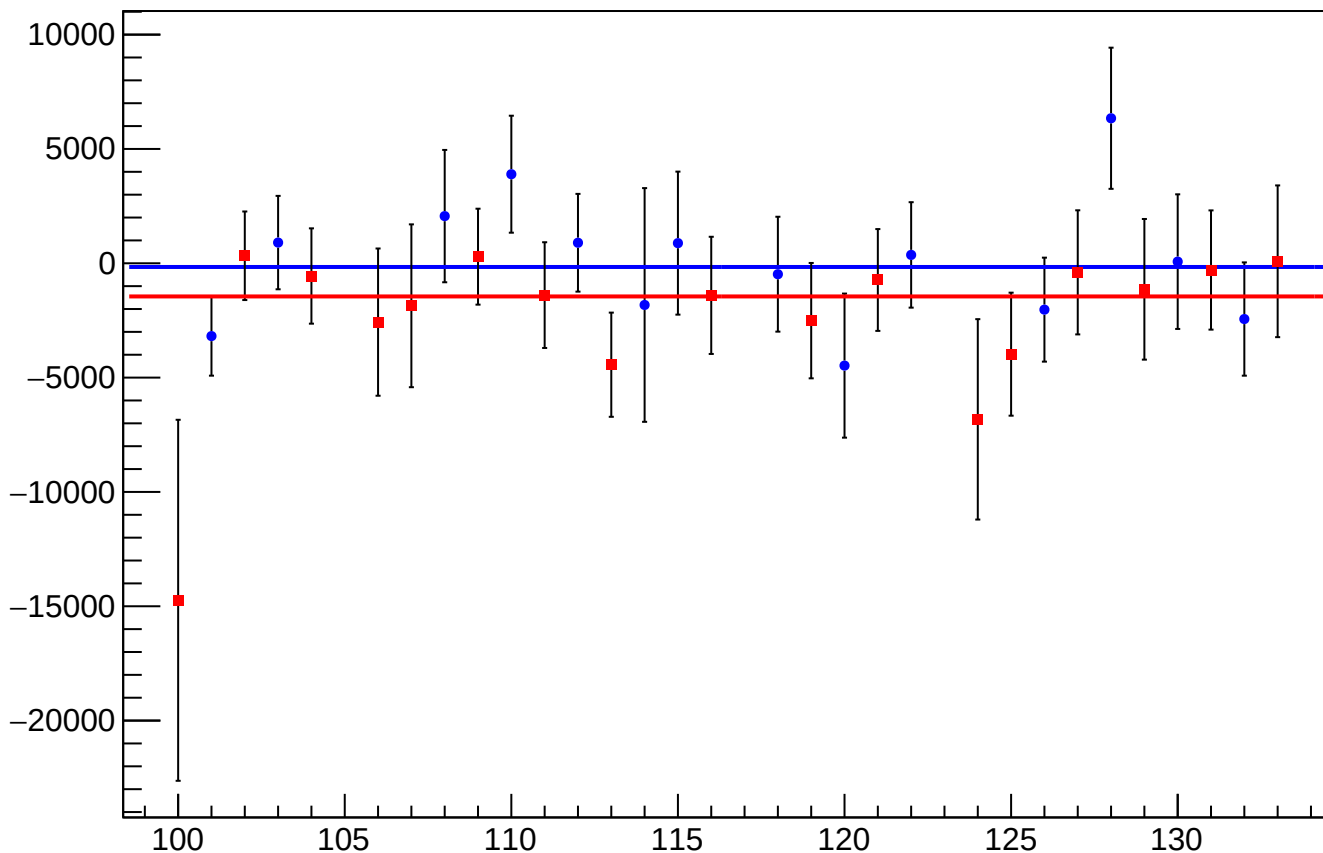
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 92.602 $\pm$ 0.019  $\chi^2$ /NDF: 549641.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_cor\_correction\_mean vs Slug



Right In: -161.758+/-669.799  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1450.251+/-635.501  $\chi^2$ /NDF: 9.6/16

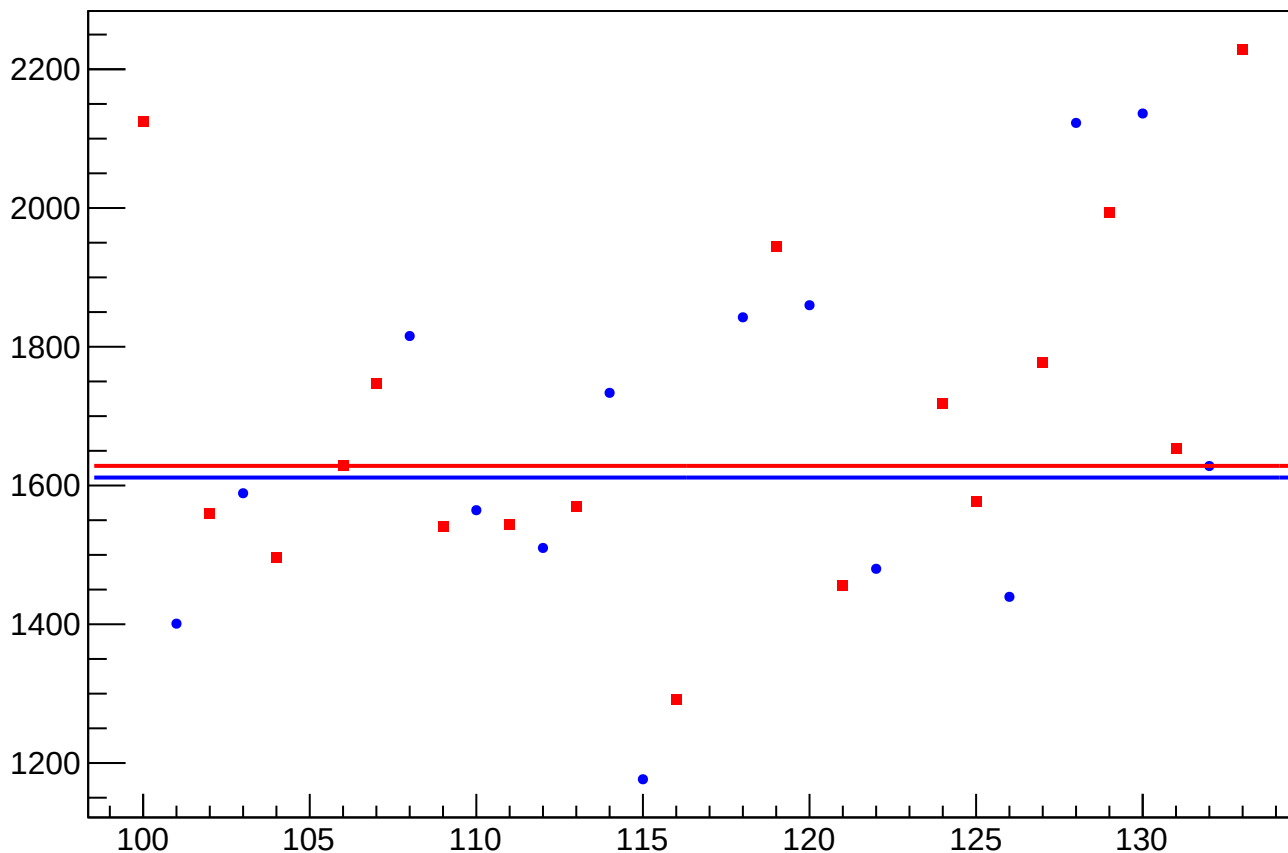
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -839.837+/-461.016  $\chi^2$ /NDF: 26.4/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_cor\_correction\_rms vs Slug



Right In: 1611.488+/-0.474  $\chi^2/\text{NDF}$ : 250550.0/13

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

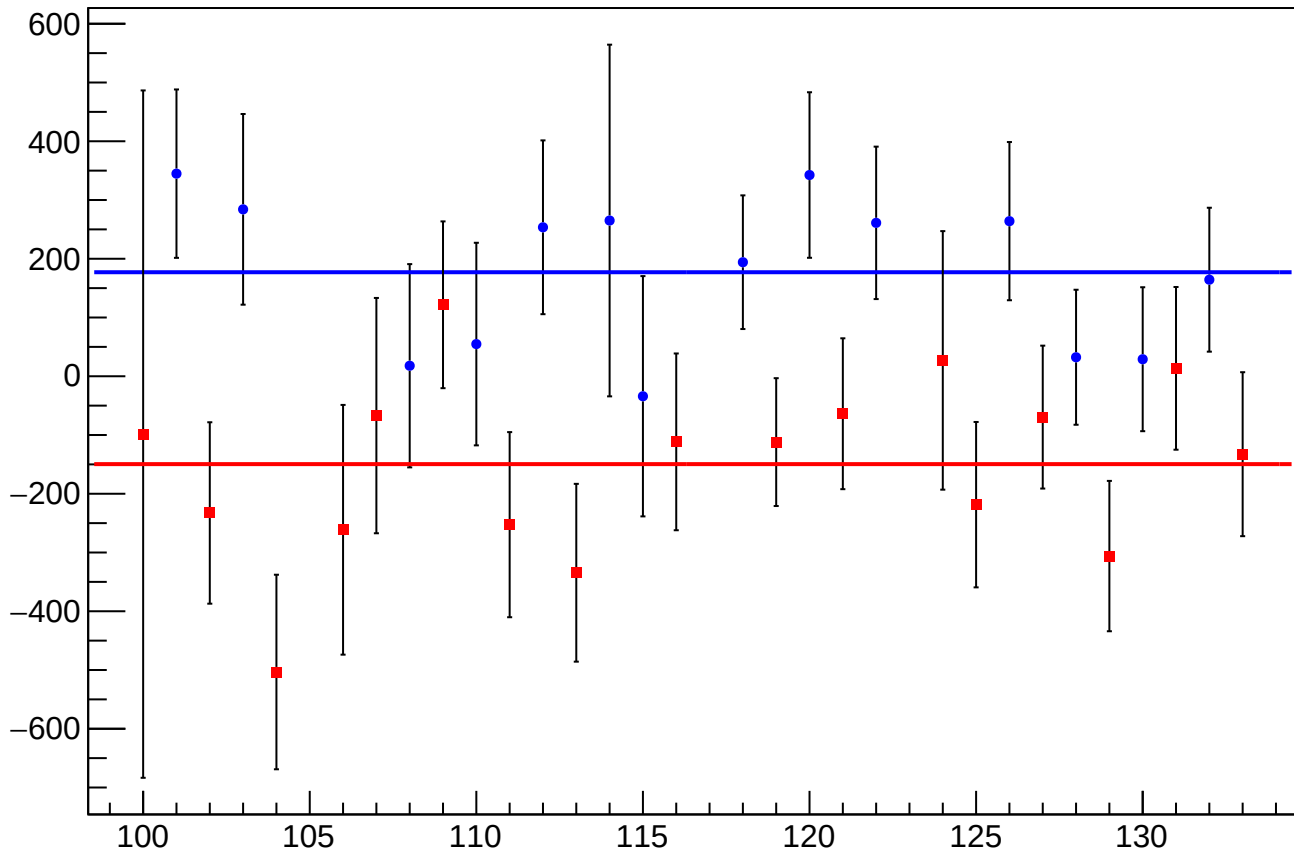
Right Out: 1628.301+/-0.449  $\chi^2/\text{NDF}$ : 207605.3/16

All: 1620.336+/-0.326  $\chi^2/\text{NDF}$ : 458818.5/30

- 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\_sam\_24\_68\_dd\_mean vs Slug



Right In: 177.067 $\pm$ 38.187  $\chi^2$ /NDF: 9.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -149.554 $\pm$ 36.403  $\chi^2$ /NDF: 15.7/16

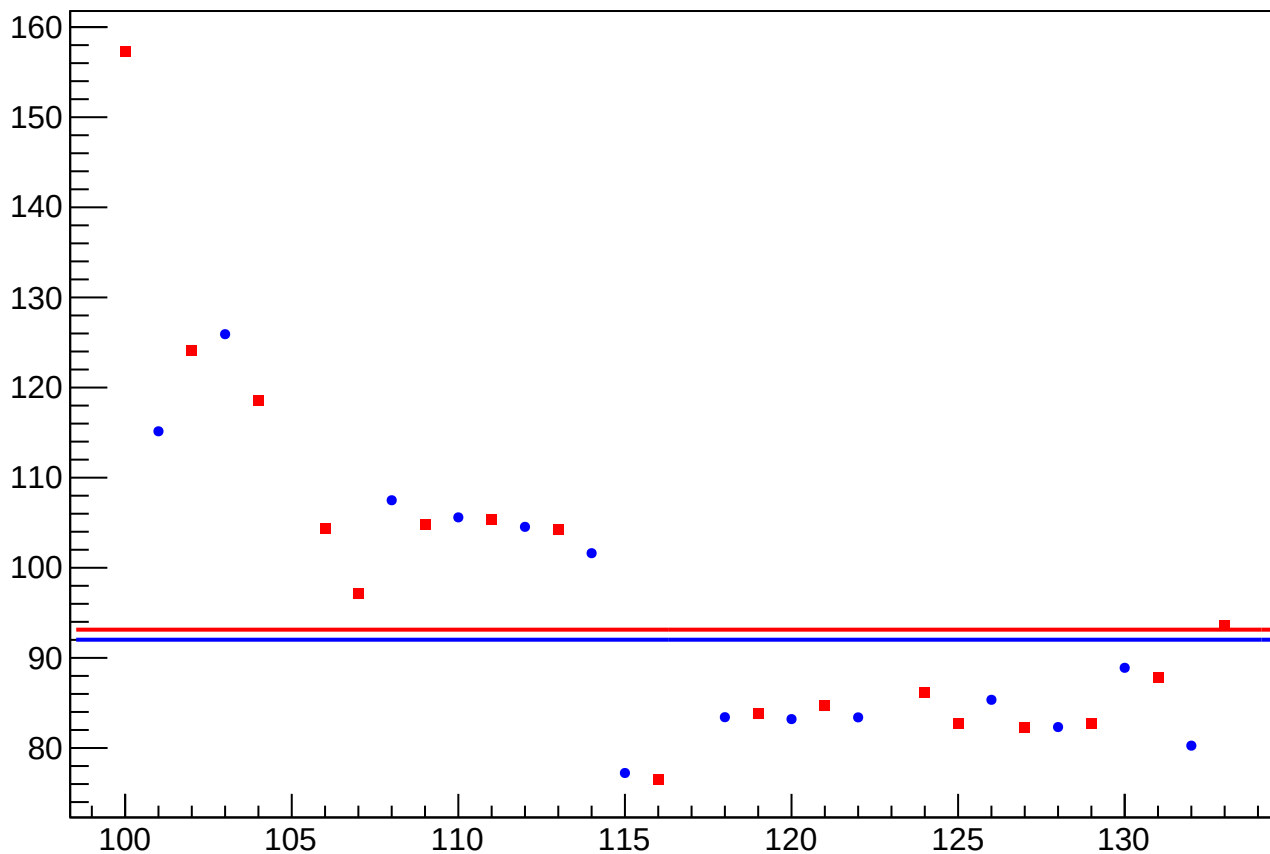
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.948 $\pm$ 26.349  $\chi^2$ /NDF: 63.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 92.017 $\pm$ 0.027  $\chi^2$ /NDF: 261578.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 93.133 $\pm$ 0.026  $\chi^2$ /NDF: 287169.0/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

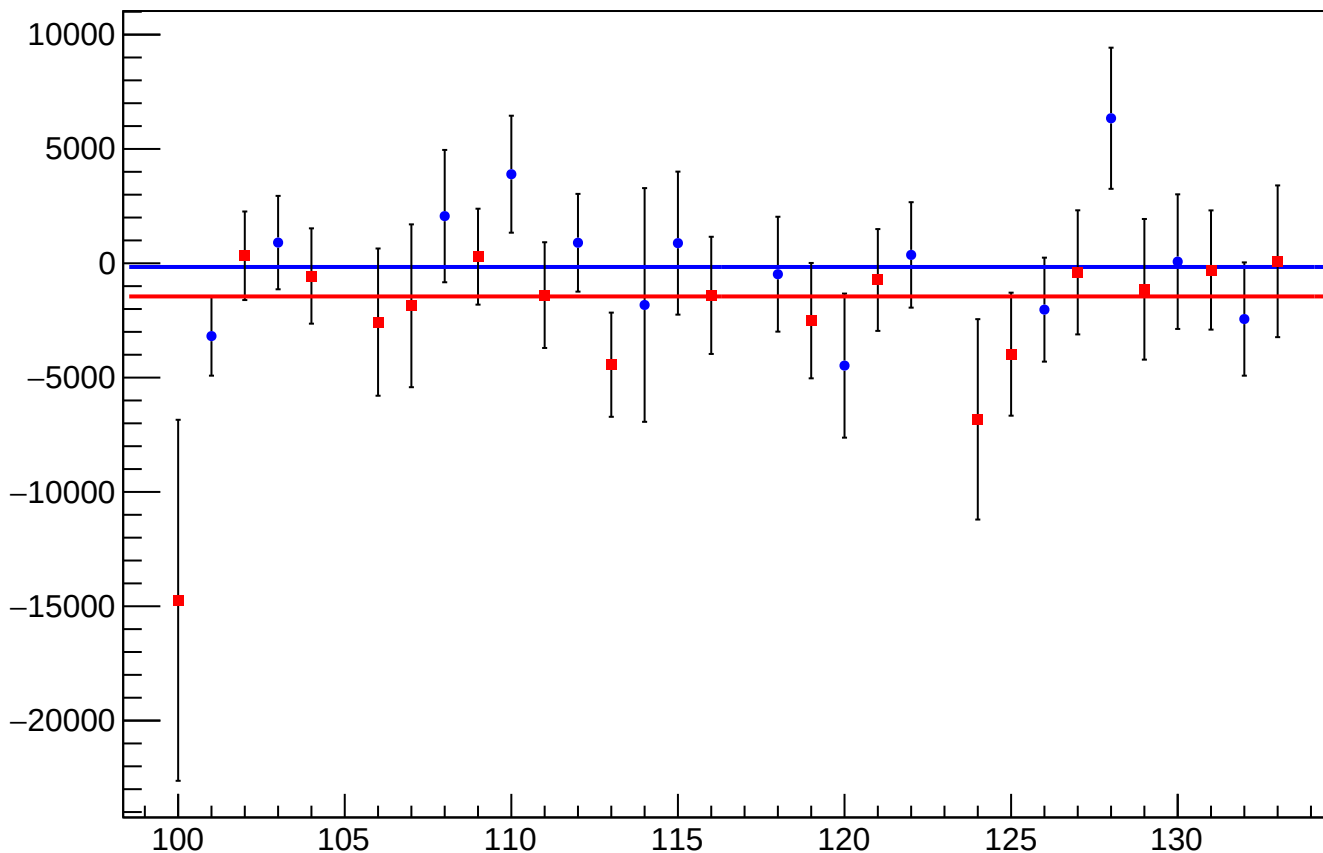
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 92.602 $\pm$ 0.019  $\chi^2$ /NDF: 549641.8/30

- 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: -161.758+/-669.799  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1450.251+/-635.501  $\chi^2$ /NDF: 9.6/16

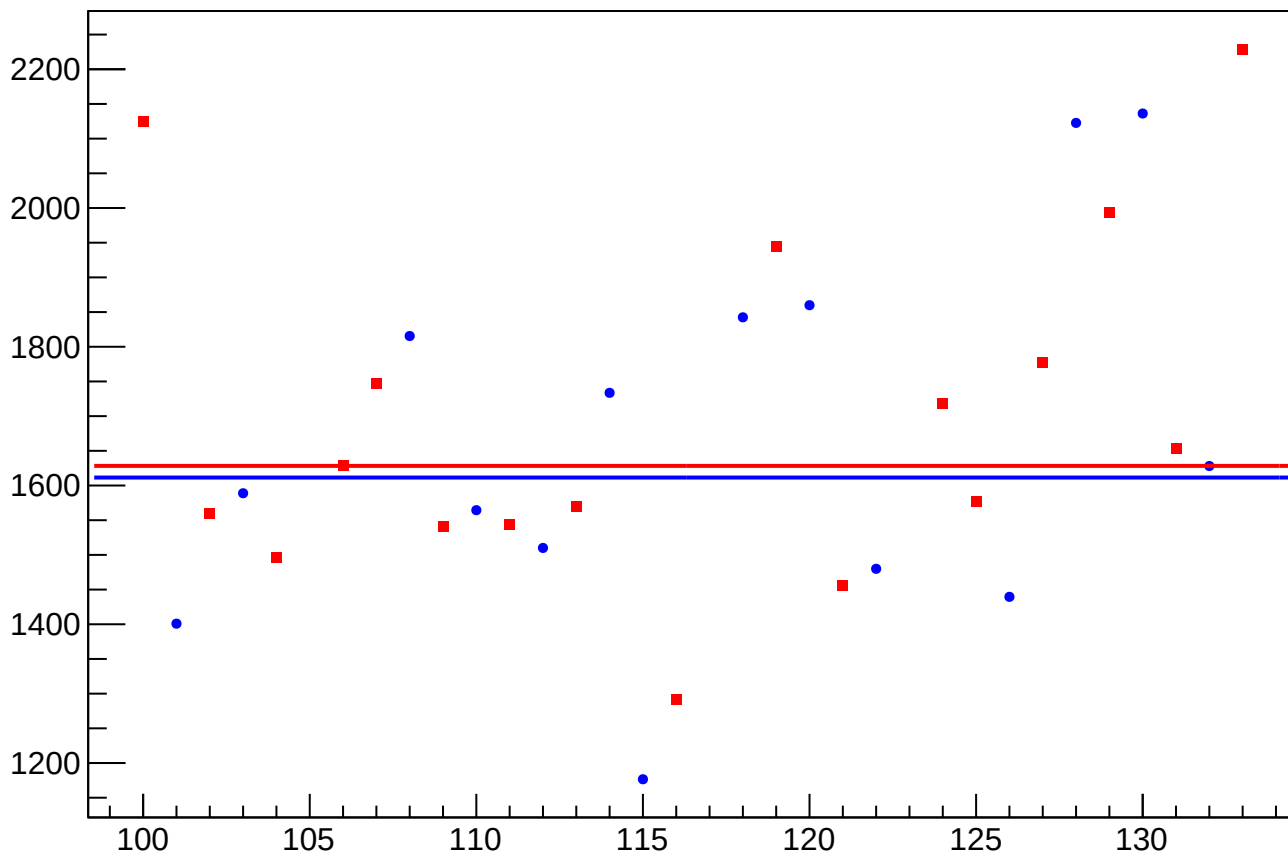
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -839.837+/-461.016  $\chi^2$ /NDF: 26.4/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 1611.488 $\pm$ 0.474  $\chi^2$ /NDF: 250550.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1628.301 $\pm$ 0.449  $\chi^2$ /NDF: 207605.3/16

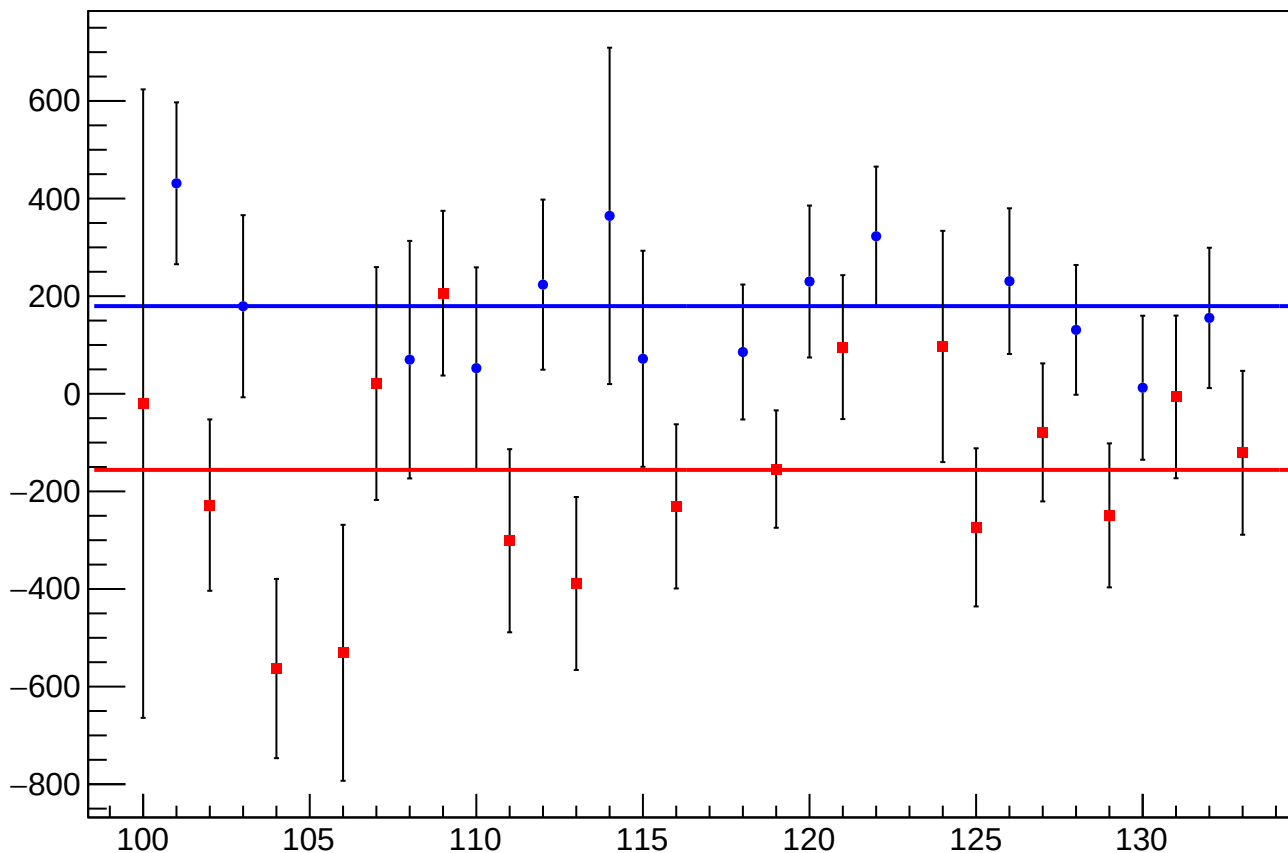
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1620.336 $\pm$ 0.326  $\chi^2$ /NDF: 458818.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 179.616 $\pm$ 44.471  $\chi^2$ /NDF: 6.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -155.932 $\pm$ 42.042  $\chi^2$ /NDF: 21.0/16

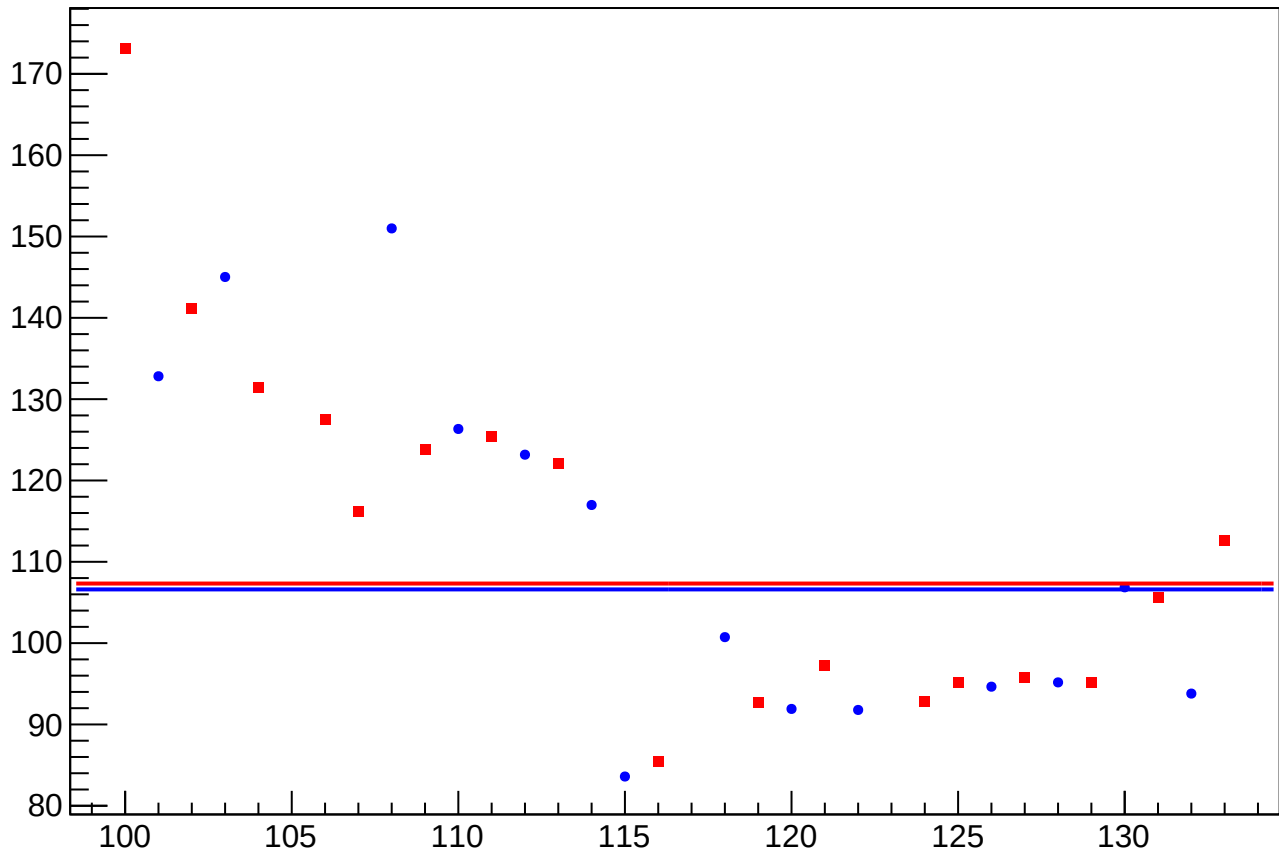
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.426 $\pm$ 30.551  $\chi^2$ /NDF: 57.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 106.605 $\pm$ 0.031  $\chi^2$ /NDF: 347612.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 107.327 $\pm$ 0.030  $\chi^2$ /NDF: 316374.8/16

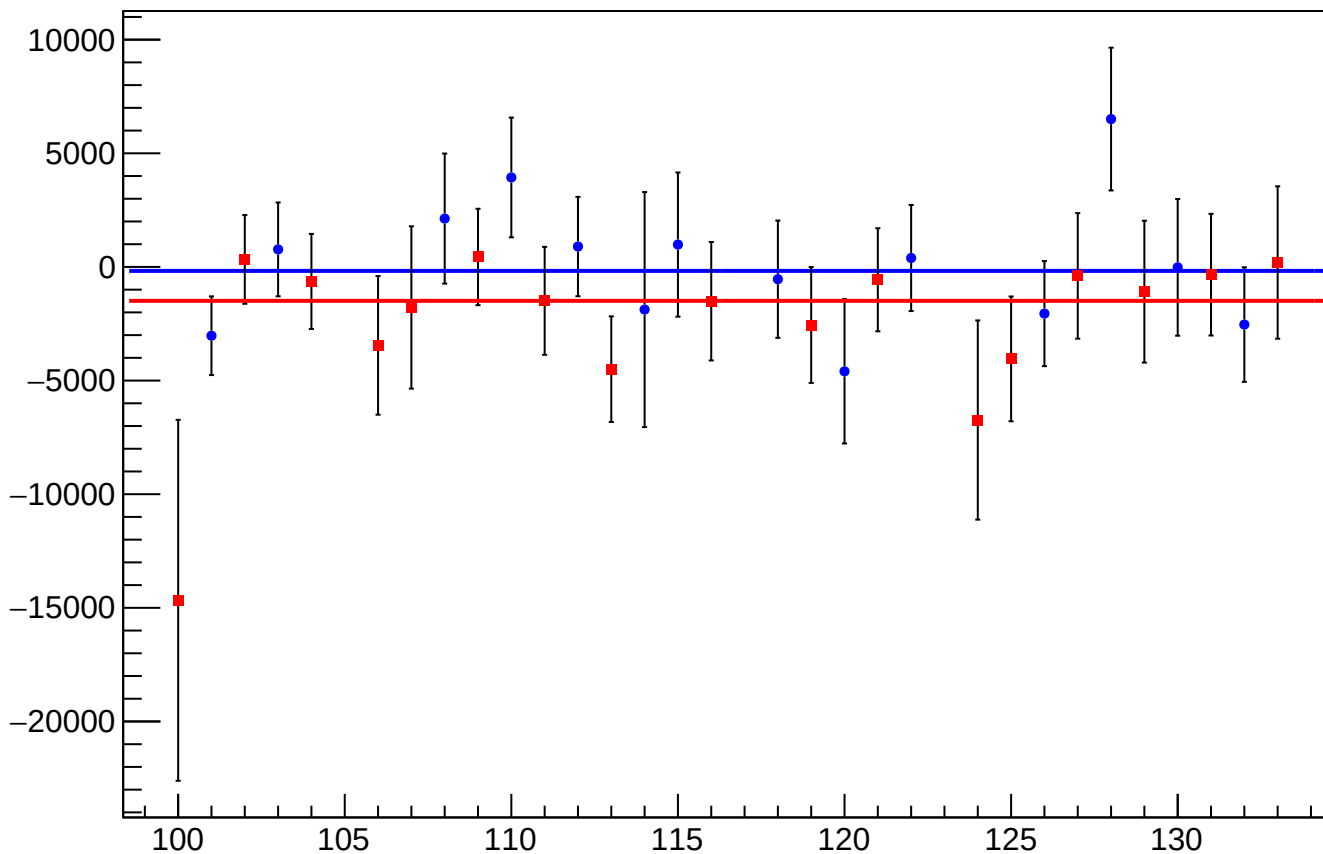
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 106.986 $\pm$ 0.022  $\chi^2$ /NDF: 664265.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_24\_68\_dd\_dit\_correction\_mean vs Slug



Right In: -174.135+/-678.758  $\chi^2$ /NDF: 14.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1491.775+/-642.742  $\chi^2$ /NDF: 10.0/16

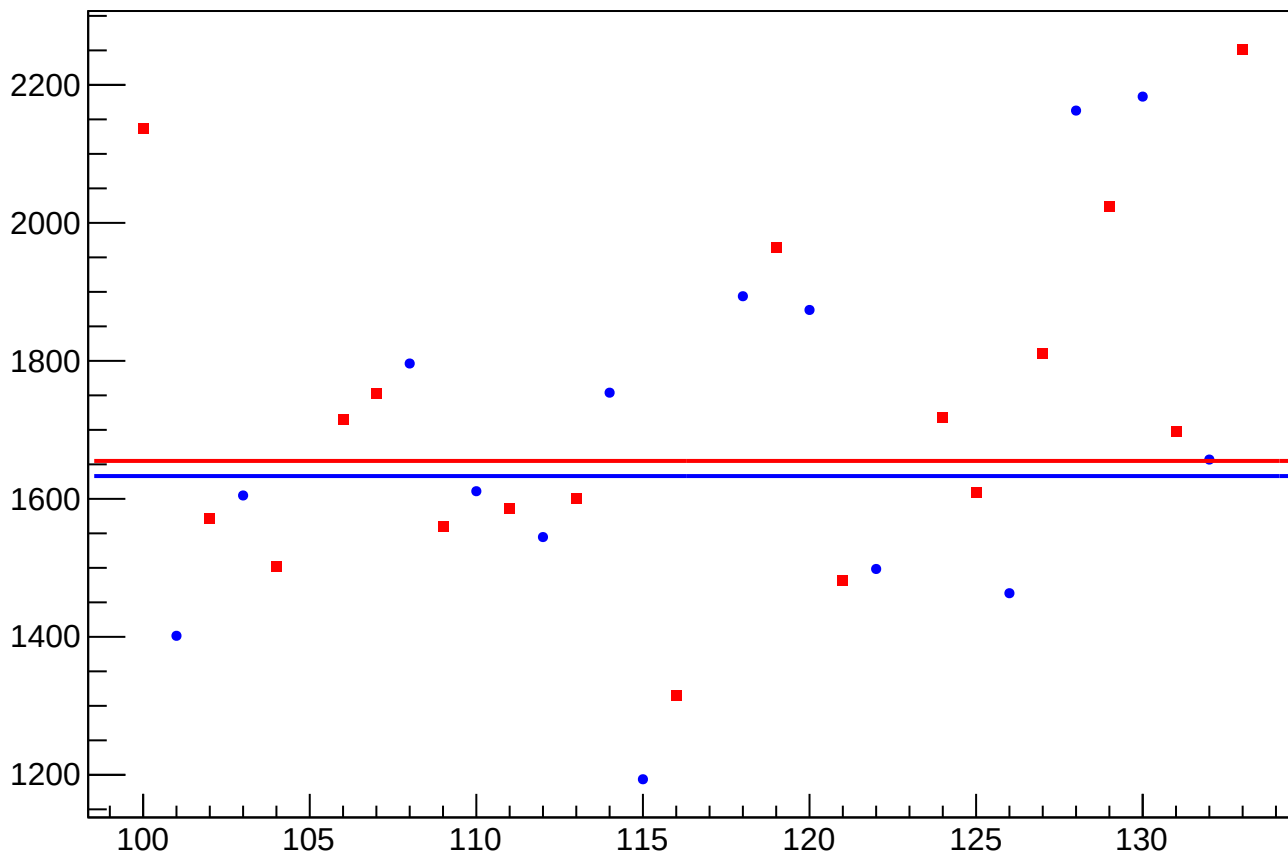
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -868.839+/-466.701  $\chi^2$ /NDF: 26.5/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_24\_68\_dd\_dit\_correction\_rms vs Slug



Right In: 1633.042+/-0.480  $\chi^2/\text{NDF}$ : 258858.4/13

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

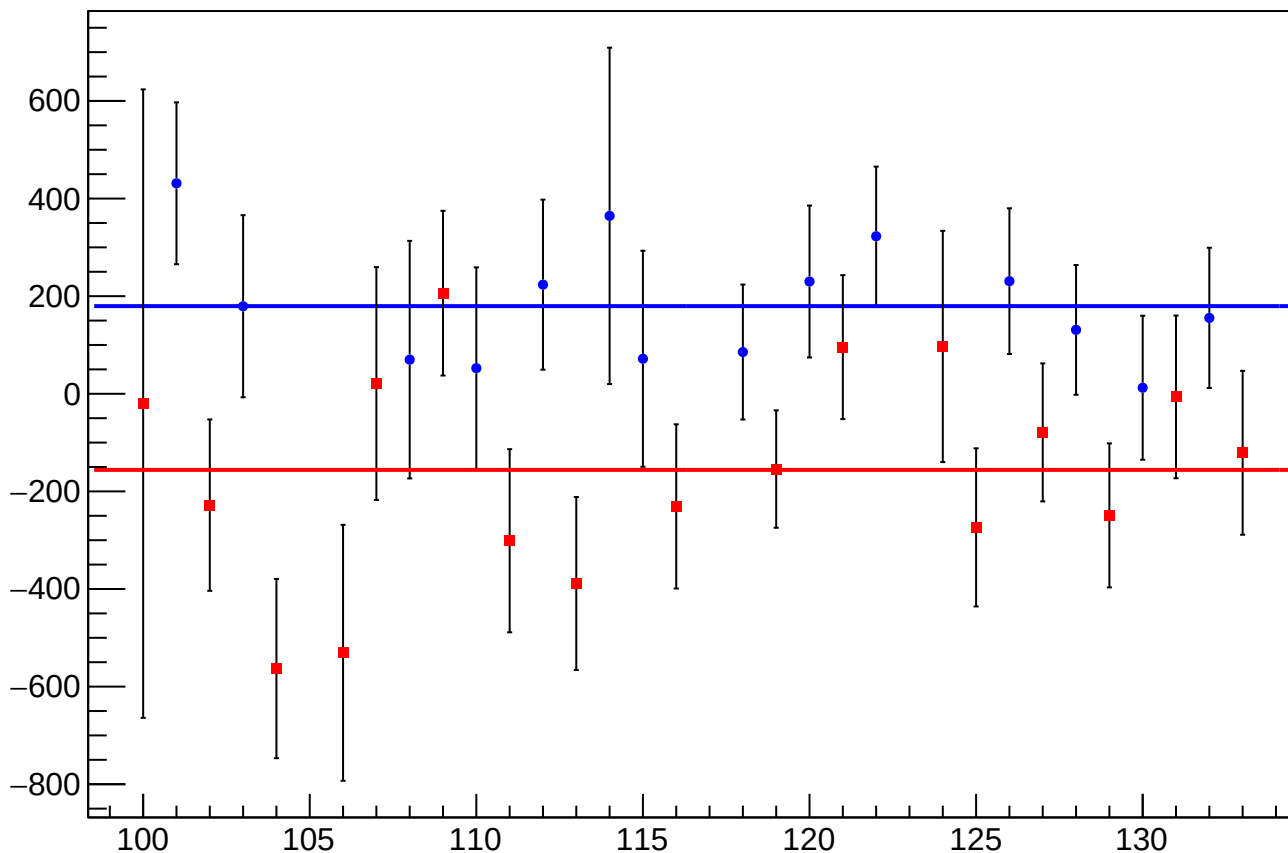
Right Out: 1654.973+/-0.454  $\chi^2/\text{NDF}$ : 204777.5/16

All: 1644.605+/-0.330  $\chi^2/\text{NDF}$ : 464736.8/30

- 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\_24\_68\_dd\_mean vs Slug



Right In: 179.615 $\pm$ 44.471  $\chi^2$ /NDF: 6.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -155.929 $\pm$ 42.041  $\chi^2$ /NDF: 21.0/16

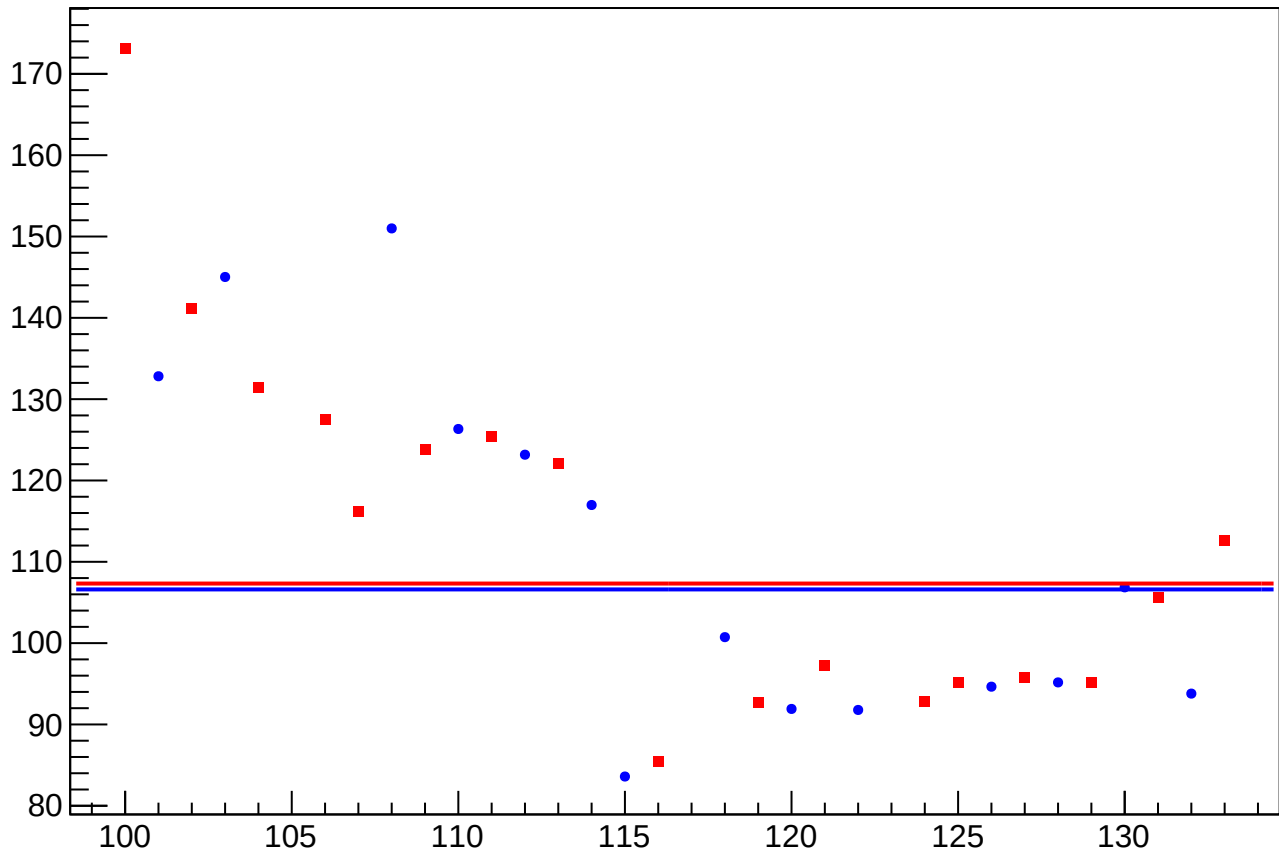
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.428 $\pm$ 30.551  $\chi^2$ /NDF: 57.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 106.604 $\pm$ 0.031  $\chi^2$ /NDF: 347619.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 107.326 $\pm$ 0.030  $\chi^2$ /NDF: 316376.3/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

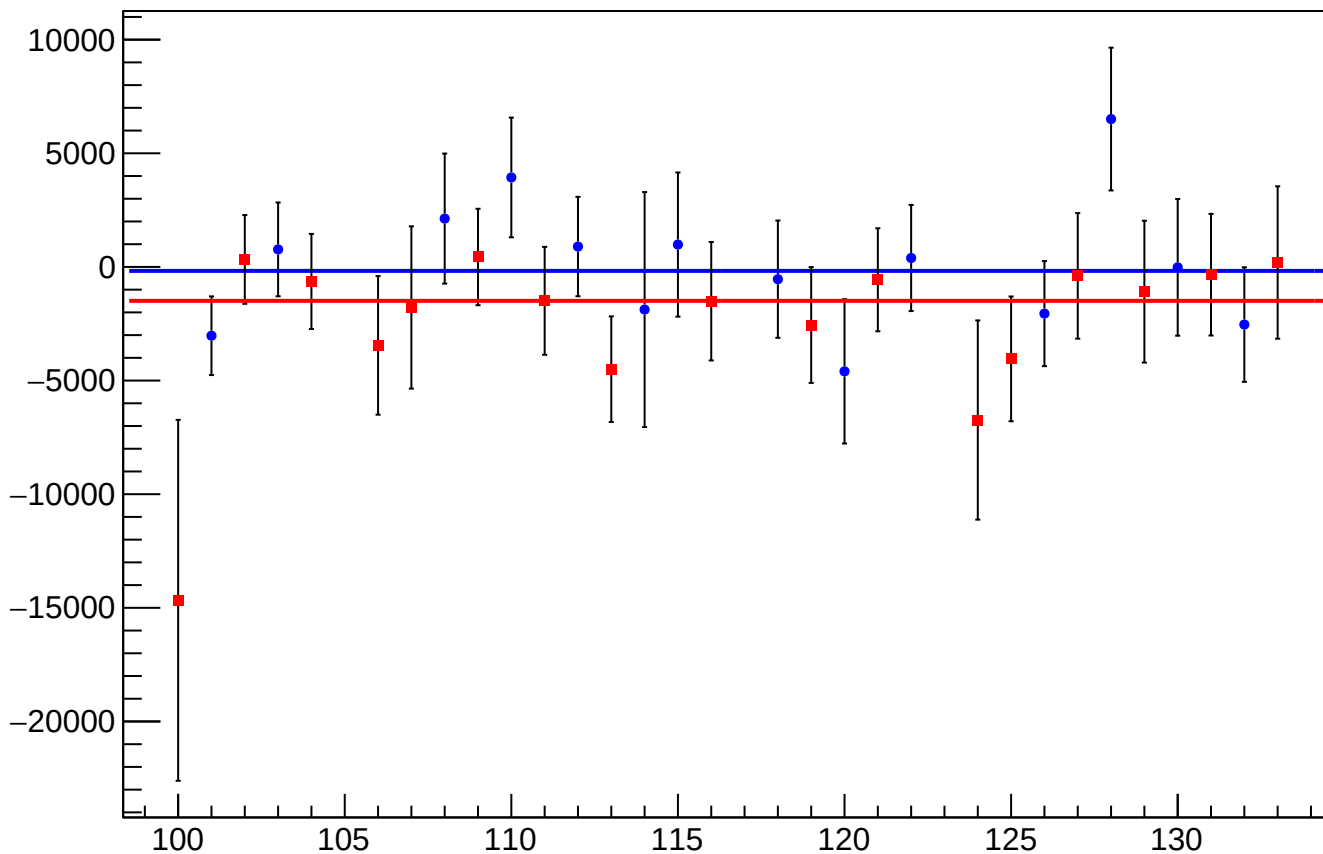
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 106.985 $\pm$ 0.022  $\chi^2$ /NDF: 664274.6/30

- 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: -174.134+/-678.757  $\chi^2/NDF$ : 14.6/13

Left Out: 0.000+/-0.000  $\chi^2/NDF$ : 0.0/0

Right Out: -1491.773+/-642.741  $\chi^2/NDF$ : 10.0/16

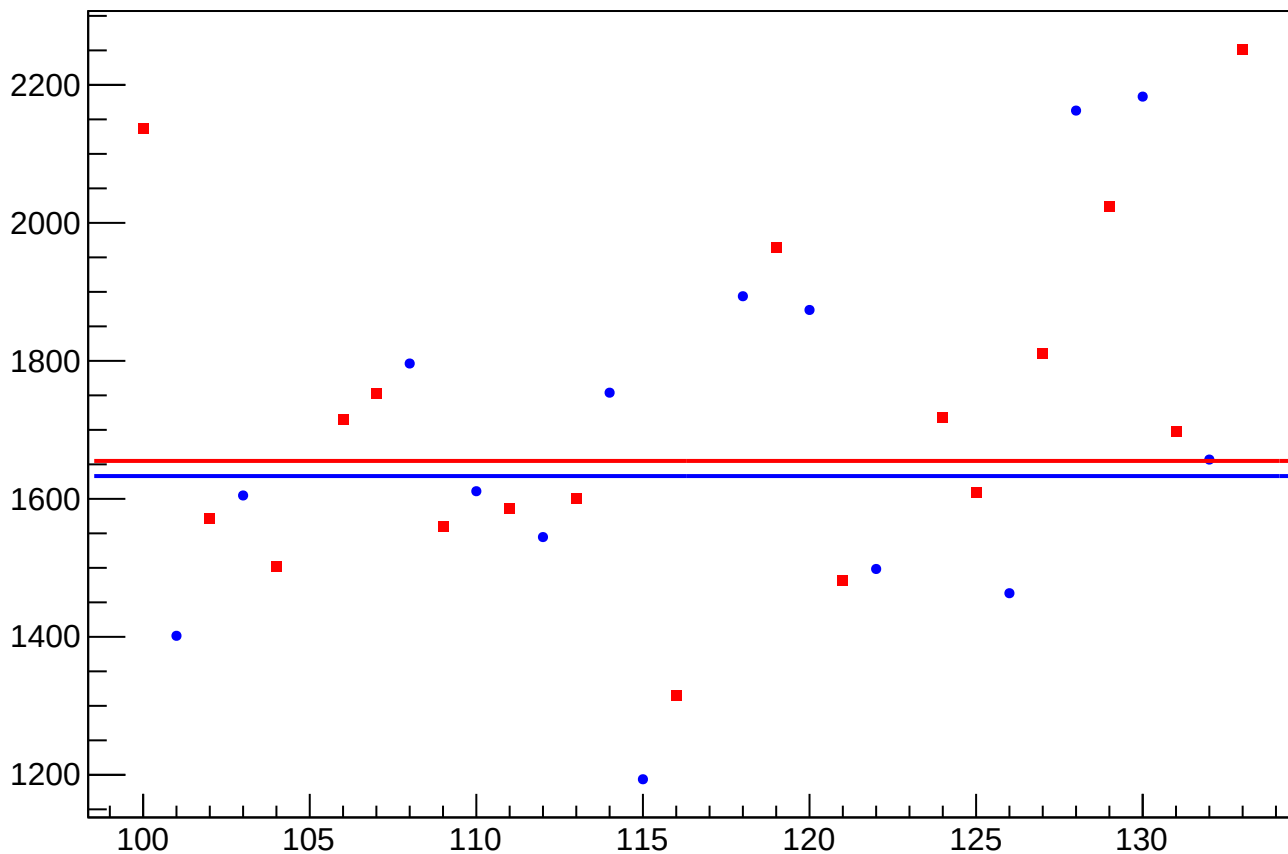
Left In: 0.000+/-0.000  $\chi^2/NDF$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/NDF$ : 0.0/0

All: -868.837+/-466.700  $\chi^2/NDF$ : 26.5/30

- sign 0.000+/-0.000  $\chi^2/NDF$ : 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 1633.038+/-0.480  $\chi^2/\text{NDF}$ : 258856.5/13

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

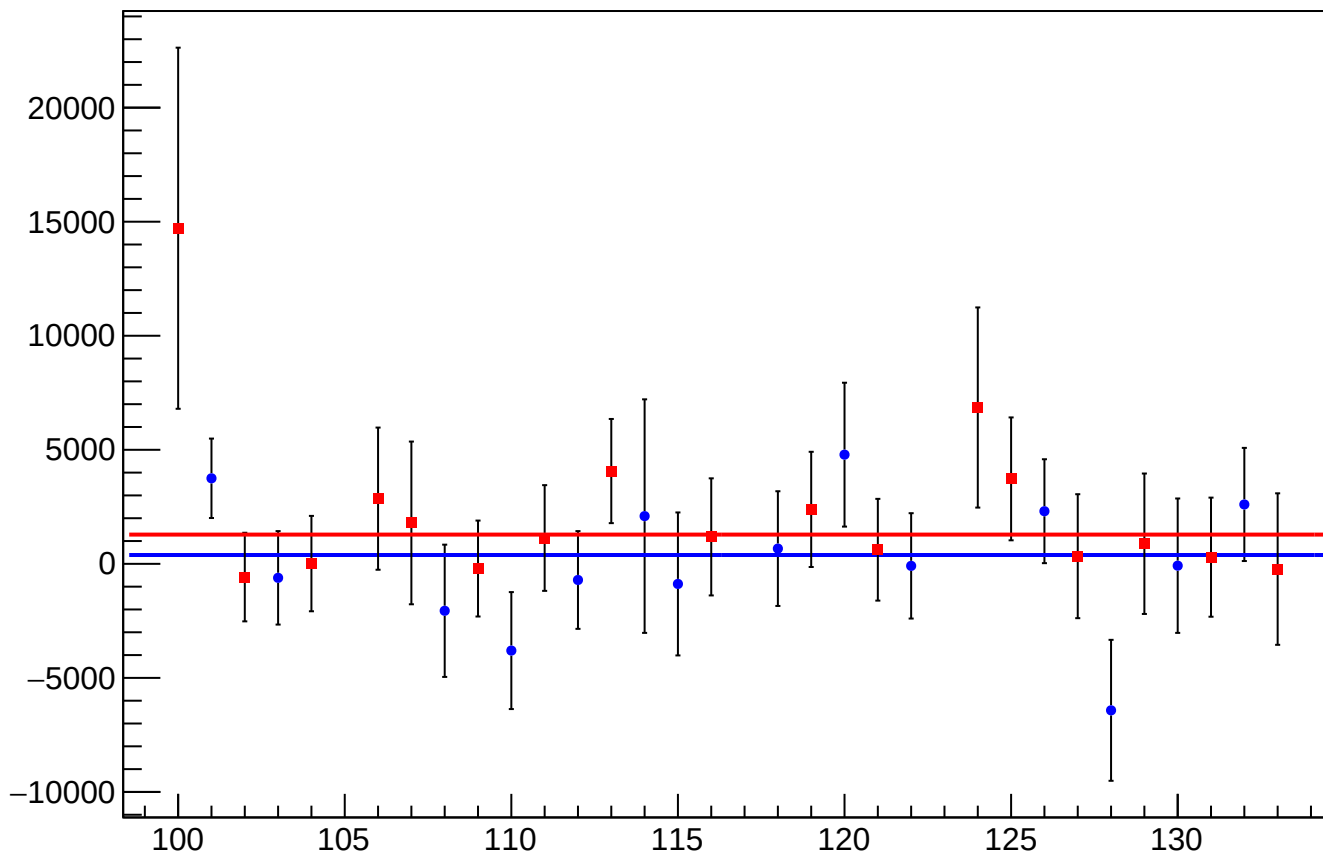
Right Out: 1654.970+/-0.454  $\chi^2/\text{NDF}$ : 204777.9/16

All: 1644.601+/-0.330  $\chi^2/\text{NDF}$ : 464735.3/30

- 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\_24\_68\_dd\_mean vs Slug



Right In: 387.666 $\pm$ 671.436  $\chi^2$ /NDF: 16.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1282.437 $\pm$ 635.874  $\chi^2$ /NDF: 9.6/16

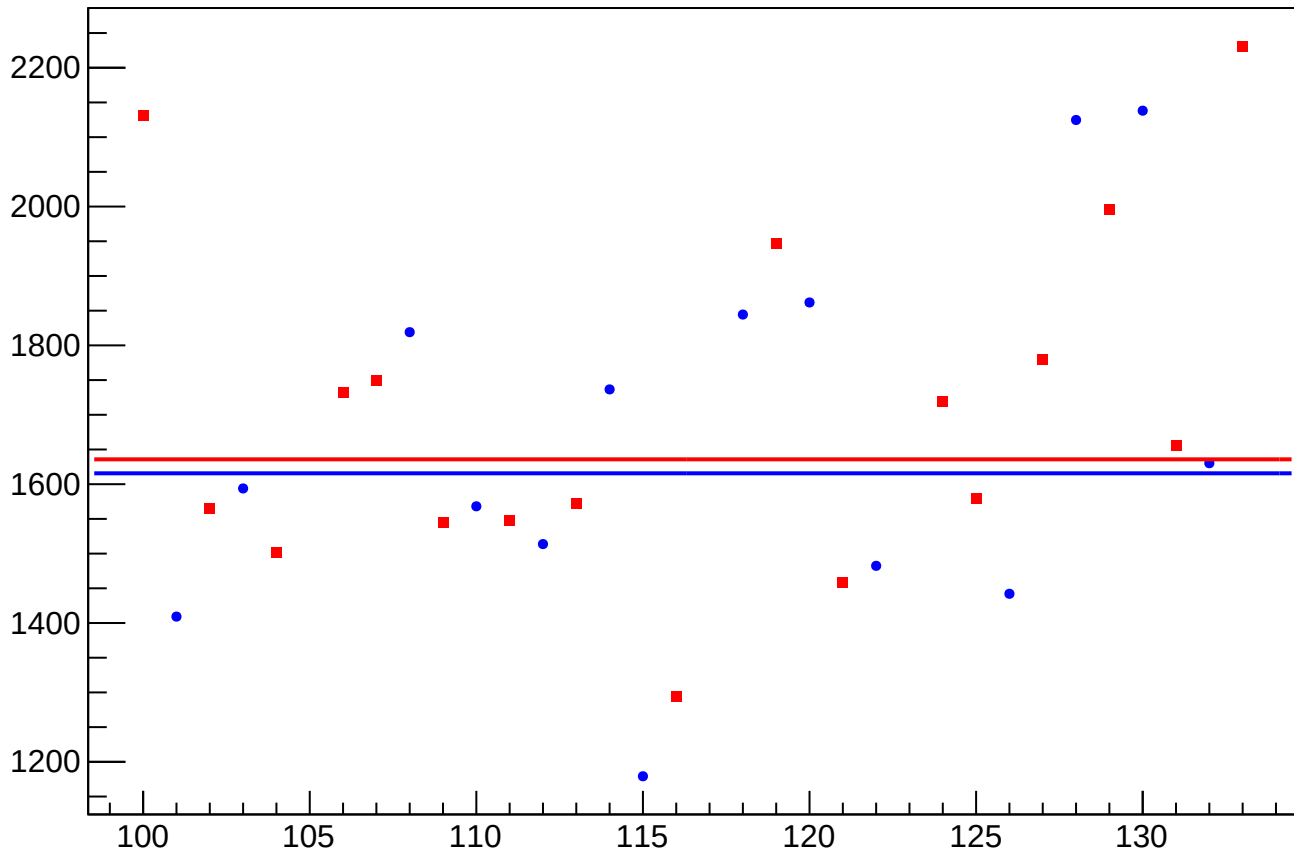
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 859.374 $\pm$ 461.691  $\chi^2$ /NDF: 26.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 1615.680 $\pm$ 0.475  $\chi^2$ /NDF: 247539.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1635.821 $\pm$ 0.450  $\chi^2$ /NDF: 208166.1/16

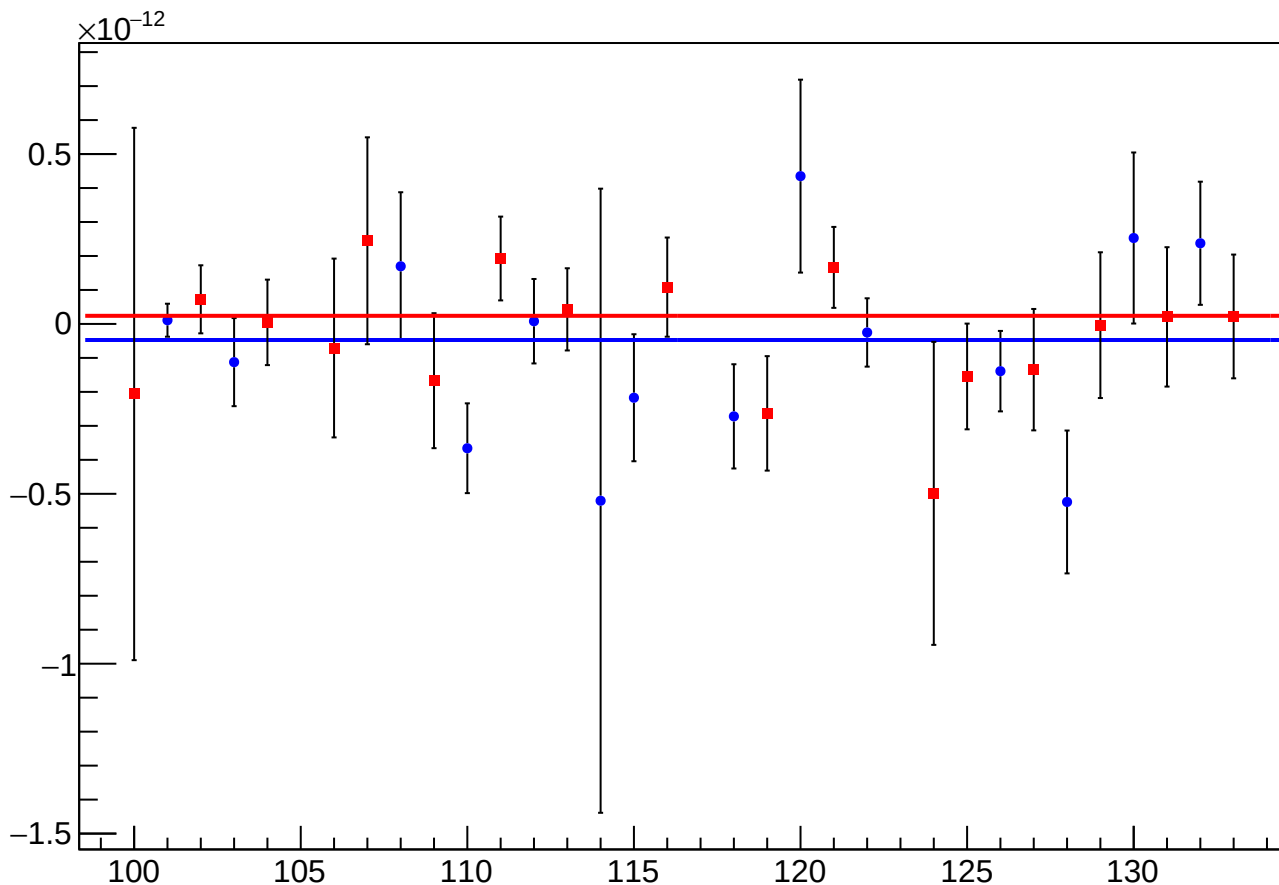
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1626.298 $\pm$ 0.326  $\chi^2$ /NDF: 456654.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 24.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.0/16

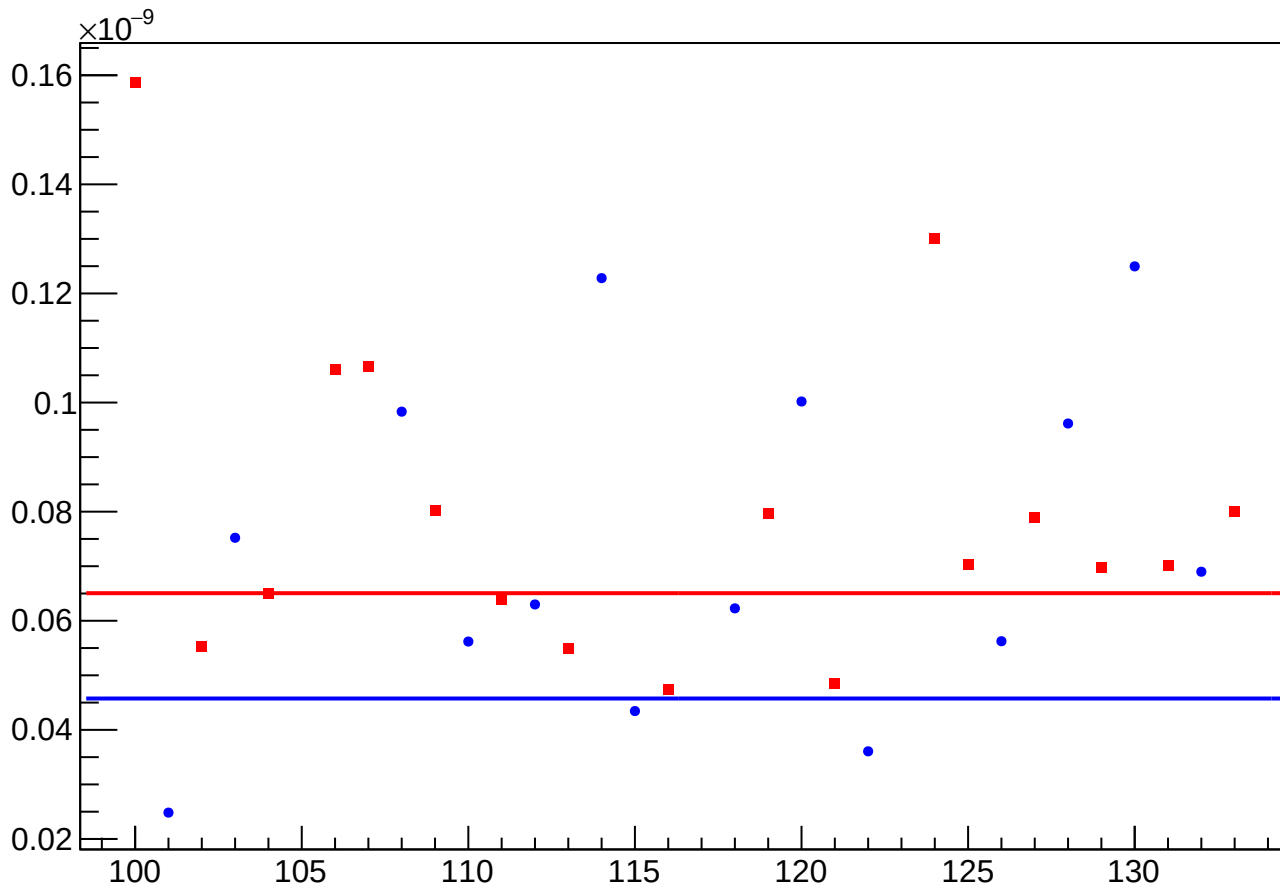
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 38.5/30

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 1133268.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 314406.6/16

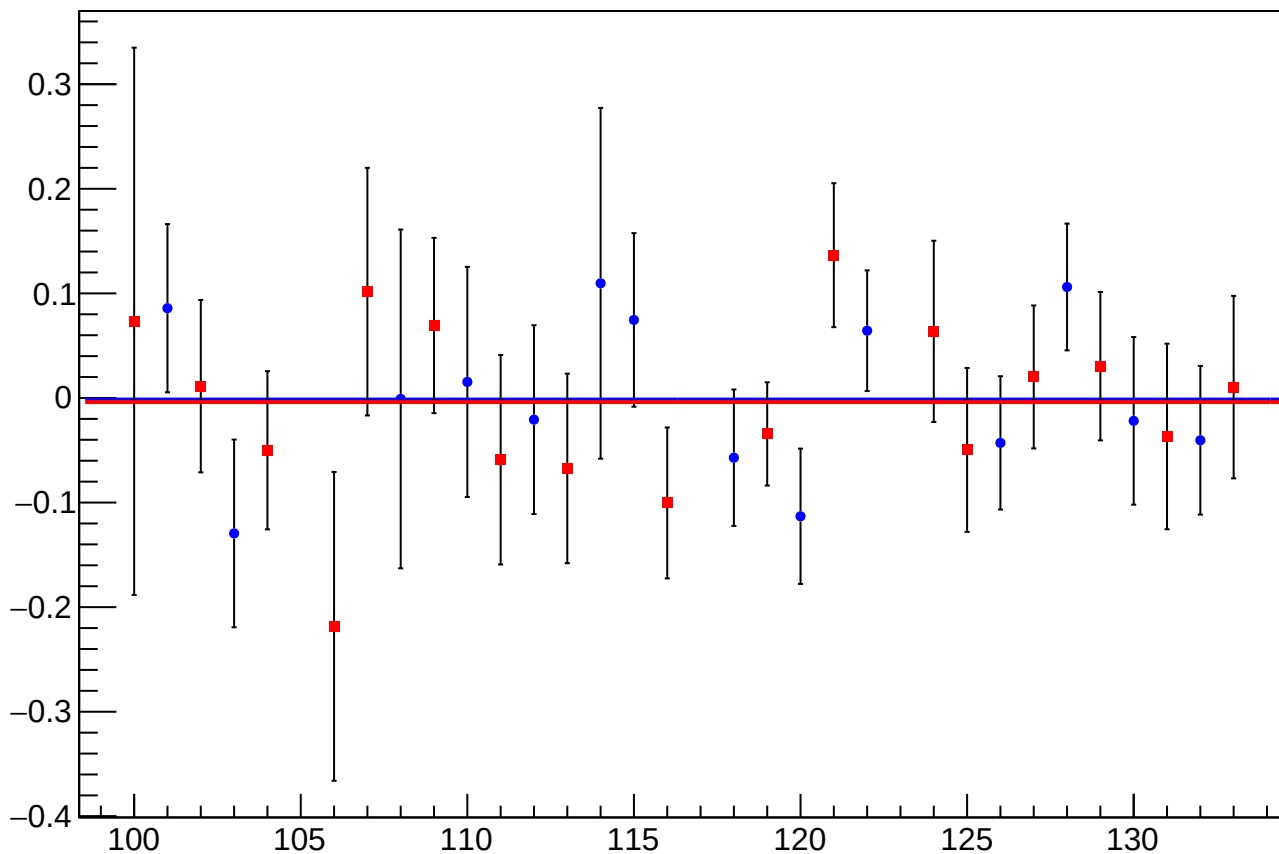
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1736881.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.021  $\chi^2$ /NDF: 13.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.004 $\pm$ 0.020  $\chi^2$ /NDF: 12.8/16

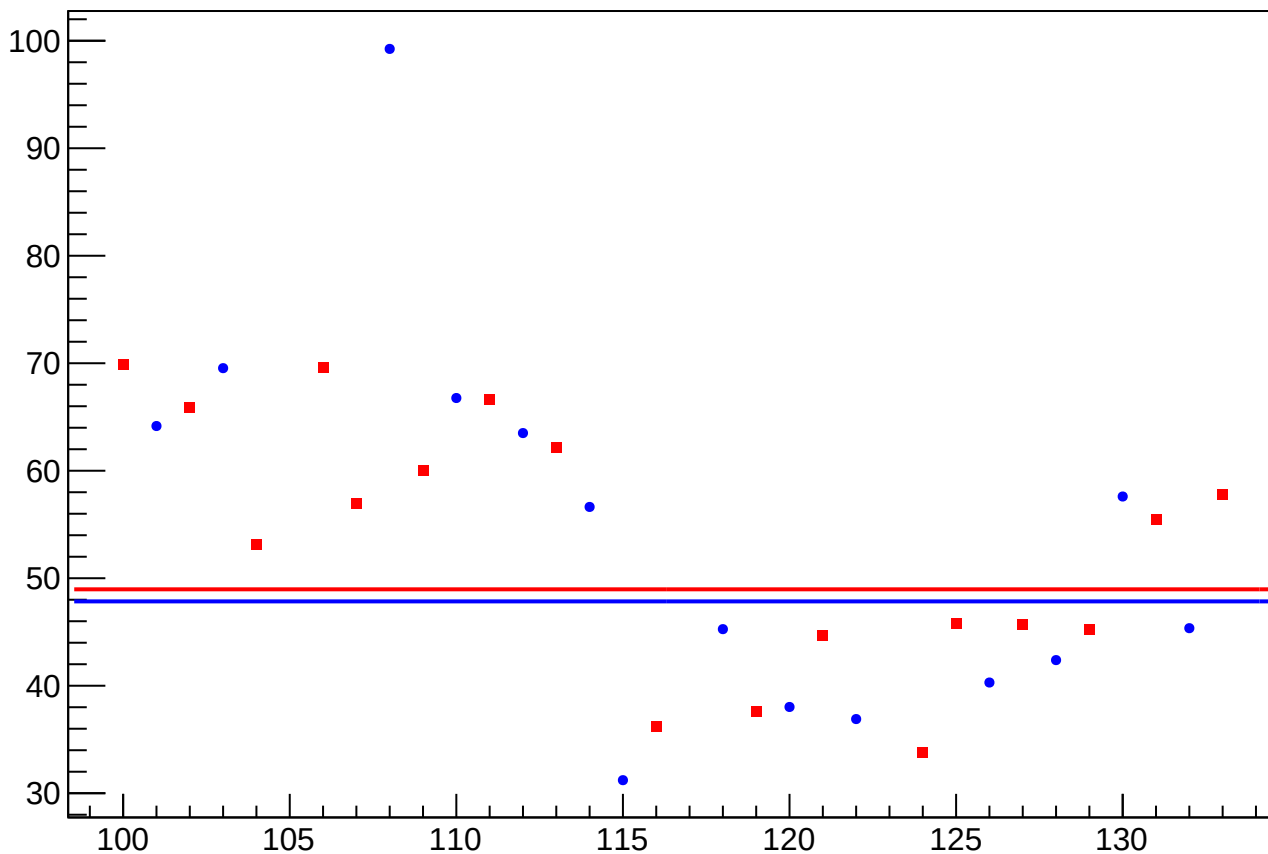
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 26.3/30

- 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: 47.846 $\pm$ 0.015  $\chi^2$ /NDF: 803363.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.969 $\pm$ 0.014  $\chi^2$ /NDF: 573004.7/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

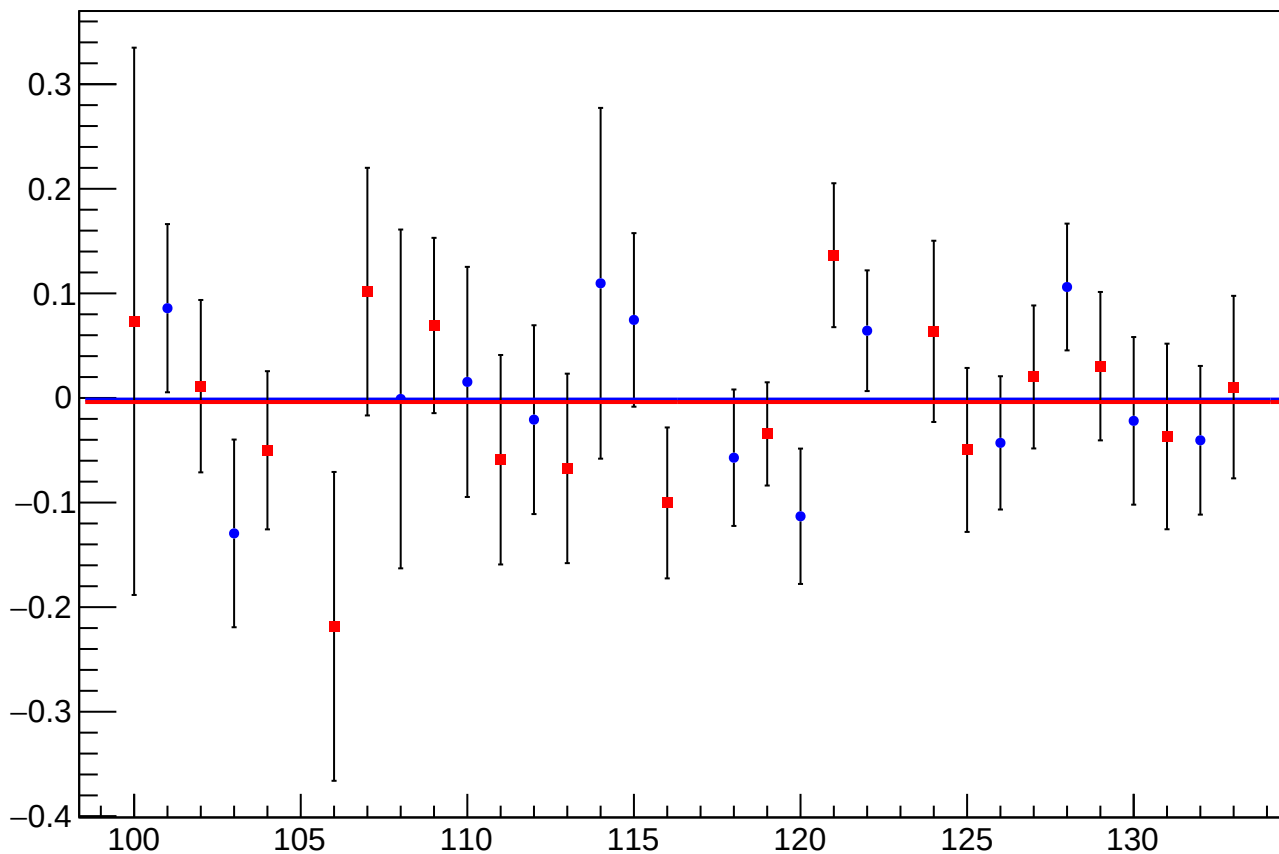
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 48.436 $\pm$ 0.010  $\chi^2$ /NDF: 1379479.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_24\_68\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.021  $\chi^2$ /NDF: 13.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.004 $\pm$ 0.020  $\chi^2$ /NDF: 12.8/16

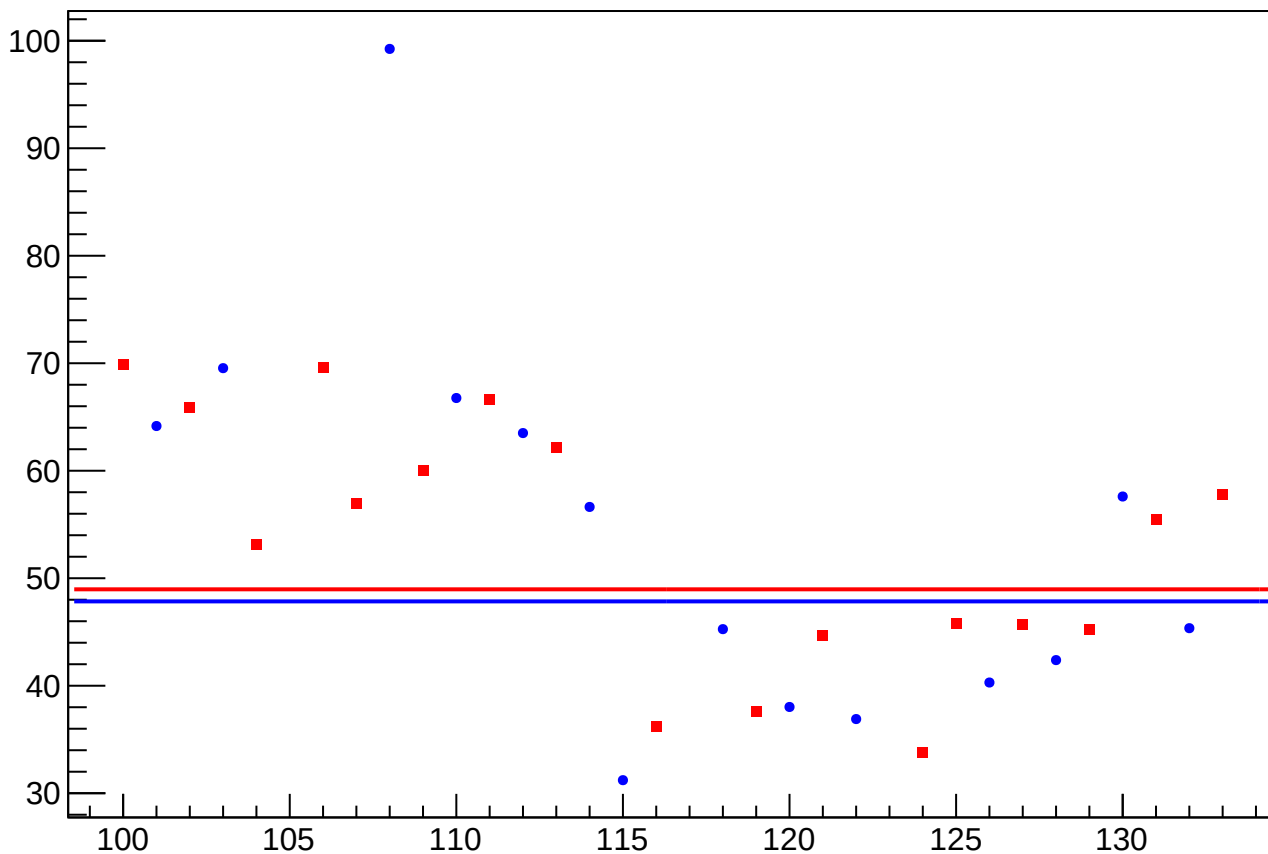
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 26.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 47.846 $\pm$ 0.015  $\chi^2$ /NDF: 803363.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.969 $\pm$ 0.014  $\chi^2$ /NDF: 573004.7/16

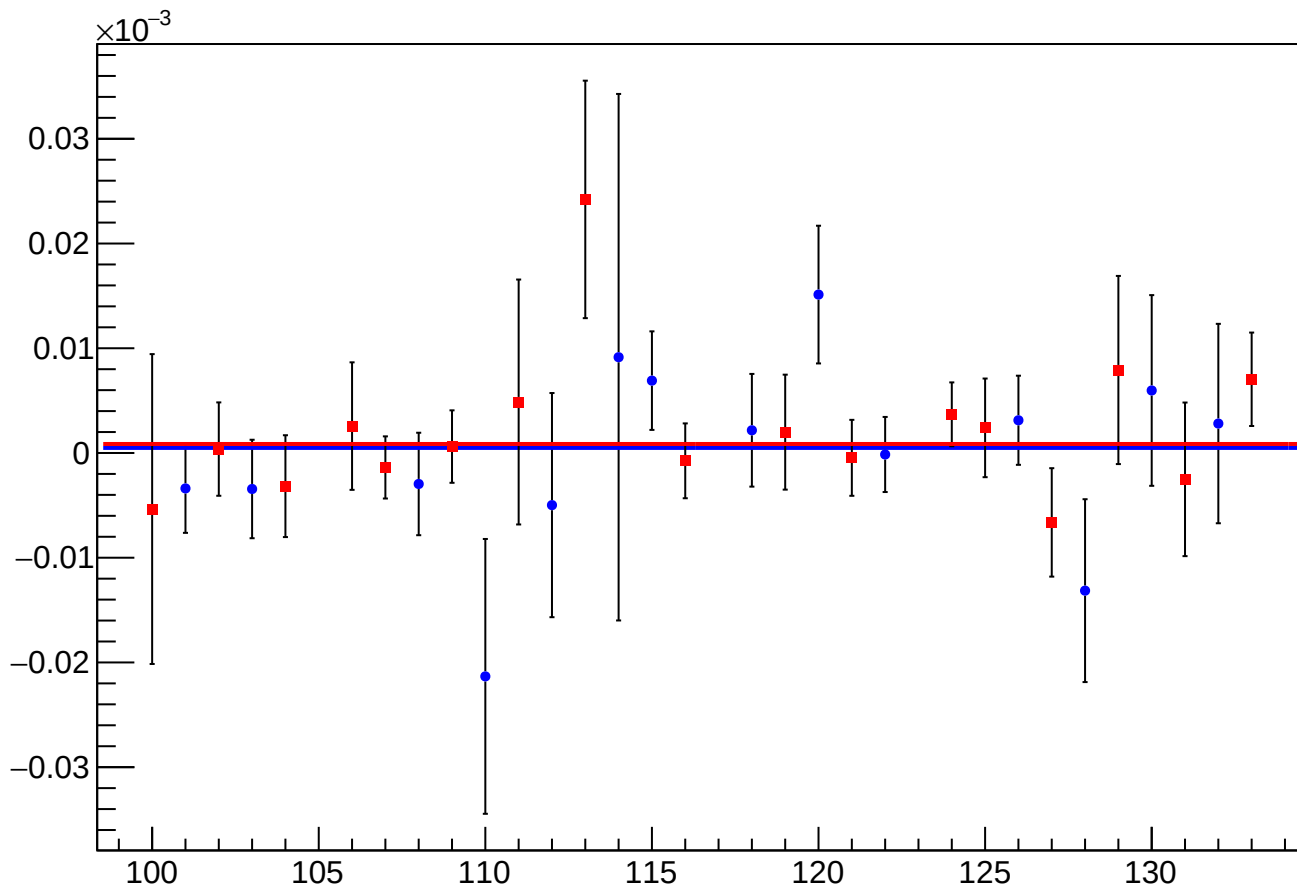
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 48.436 $\pm$ 0.010  $\chi^2$ /NDF: 1379479.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.1/16

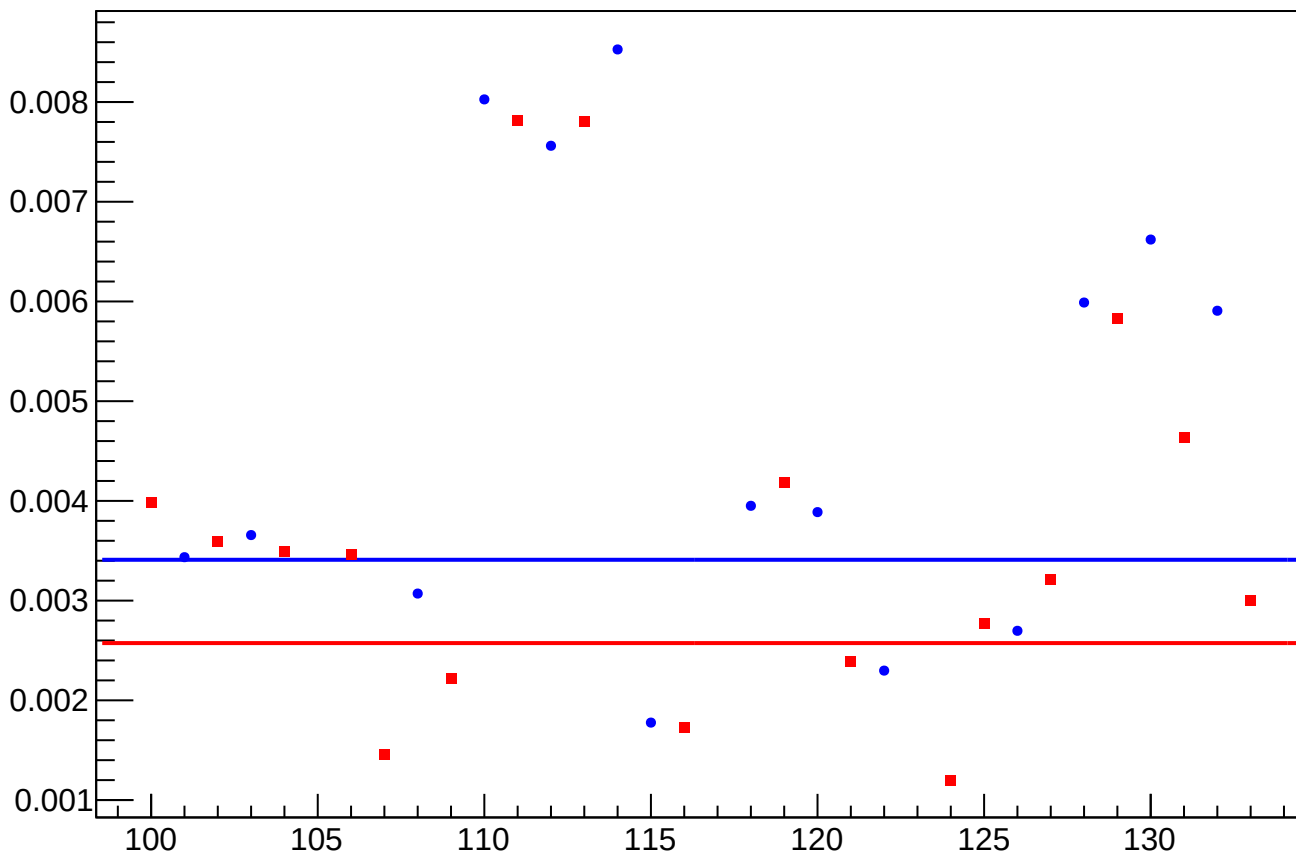
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 27.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1727814.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2539788.0/16

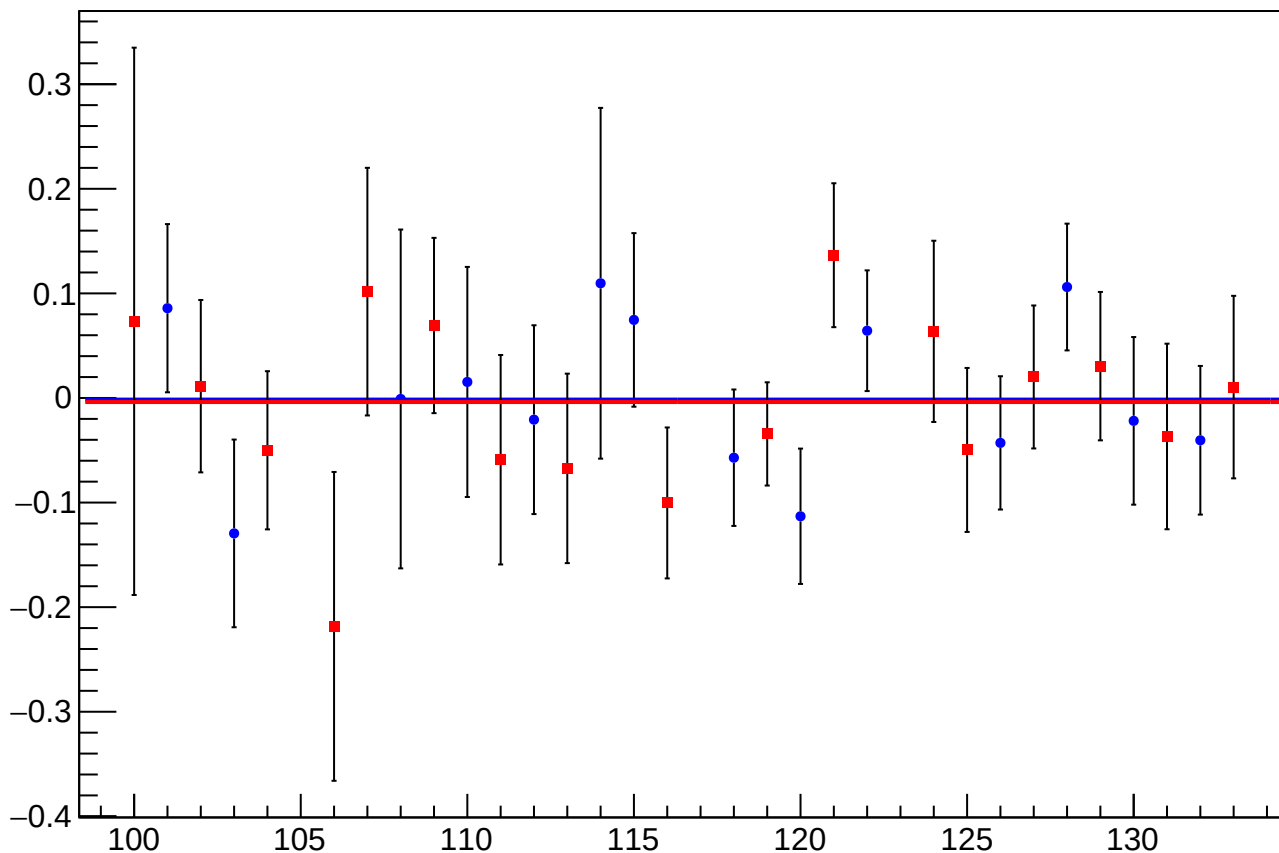
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 4657694.8/30

- 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: -0.002 $\pm$ 0.021  $\chi^2$ /NDF: 13.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.004 $\pm$ 0.020  $\chi^2$ /NDF: 12.8/16

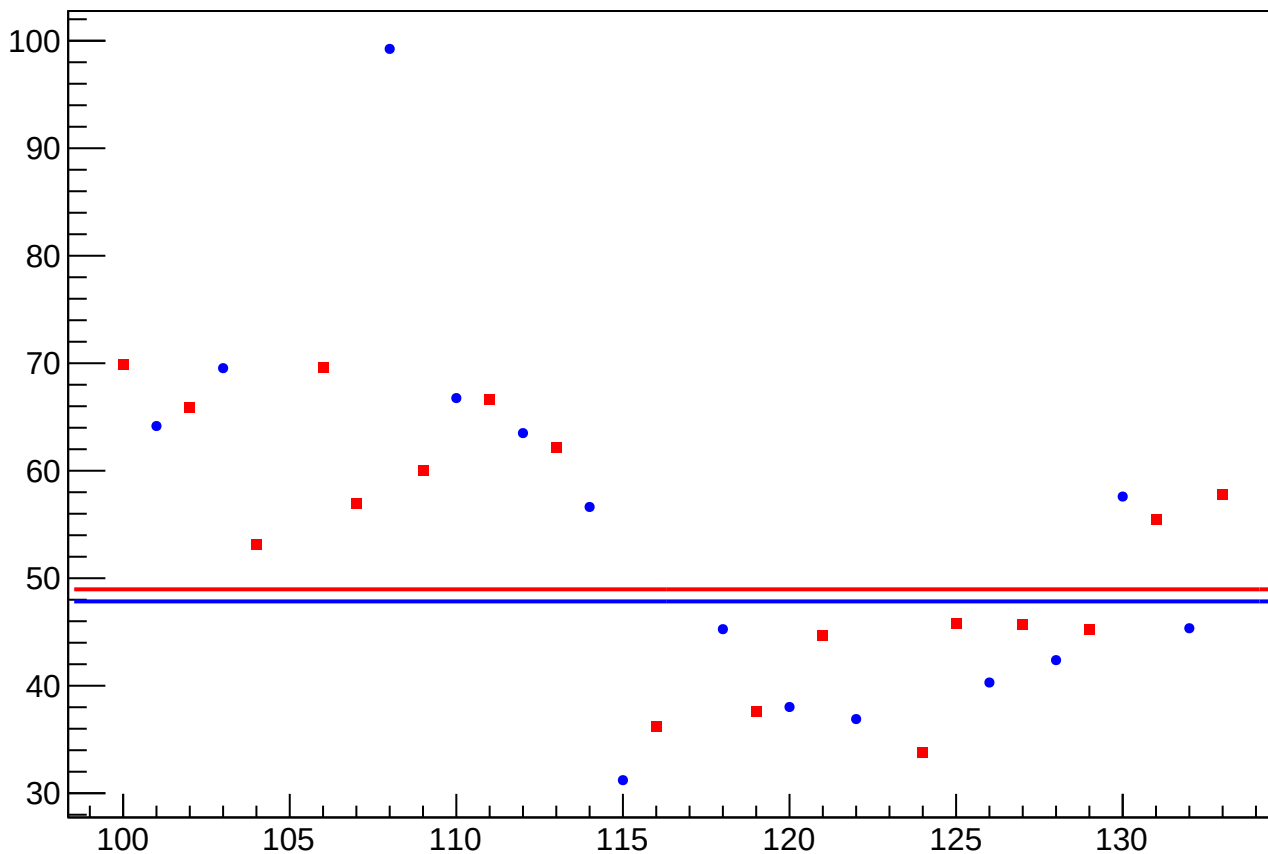
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 26.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 47.844 $\pm$ 0.015  $\chi^2$ /NDF: 803351.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.967 $\pm$ 0.014  $\chi^2$ /NDF: 573009.8/16

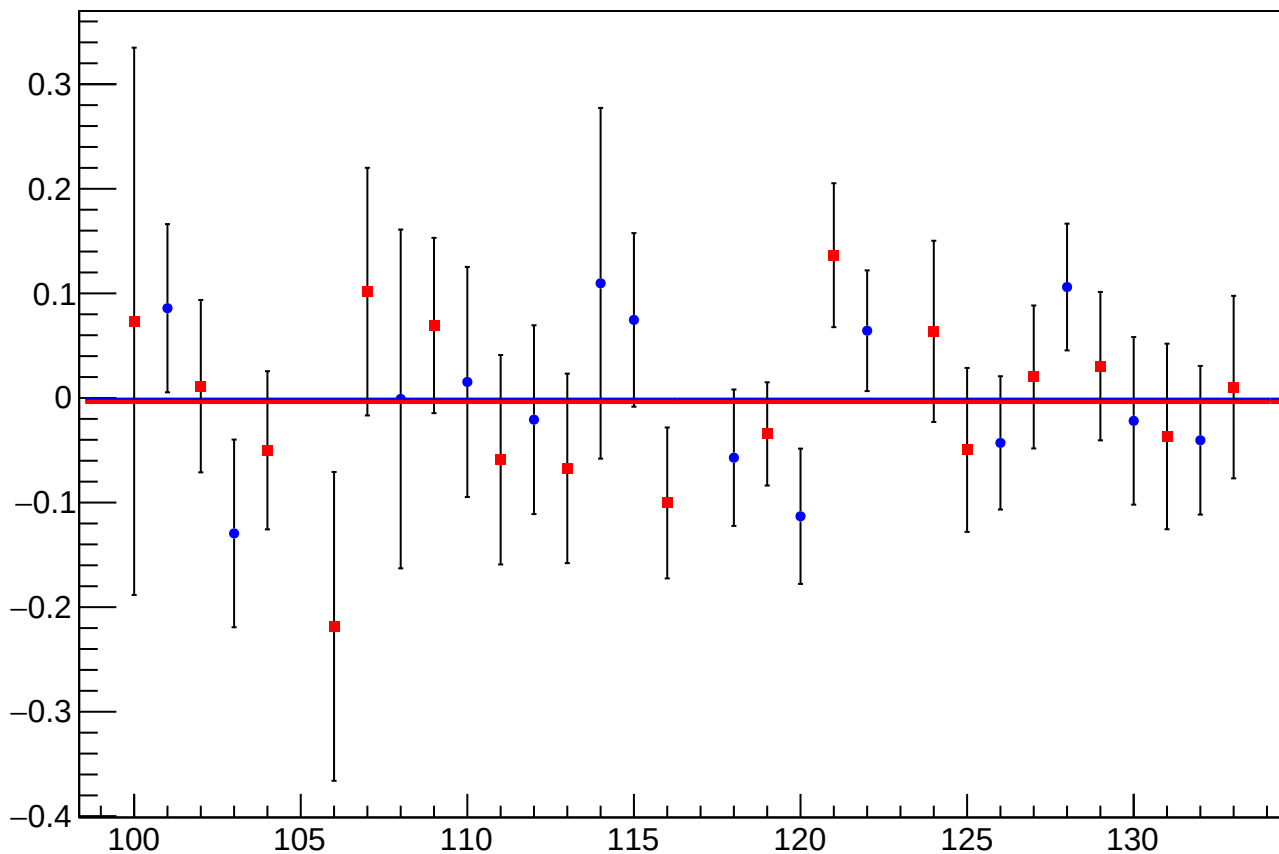
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 48.434 $\pm$ 0.010  $\chi^2$ /NDF: 1379476.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.002 $\pm$ 0.021  $\chi^2$ /NDF: 13.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.004 $\pm$ 0.020  $\chi^2$ /NDF: 12.8/16

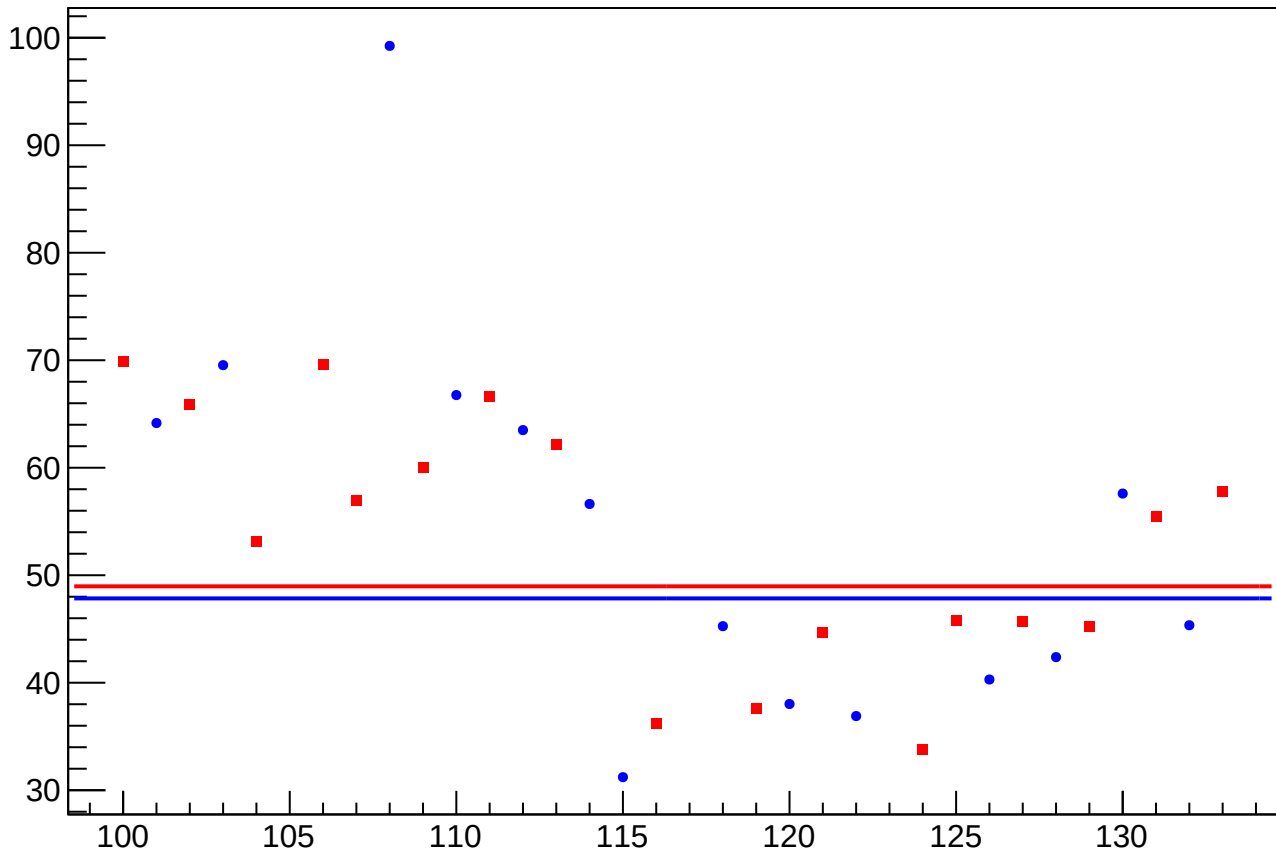
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.014  $\chi^2$ /NDF: 26.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 47.844+/-0.015  $\chi^2/\text{NDF}$ : 803351.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.967+/-0.014  $\chi^2/\text{NDF}$ : 573009.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

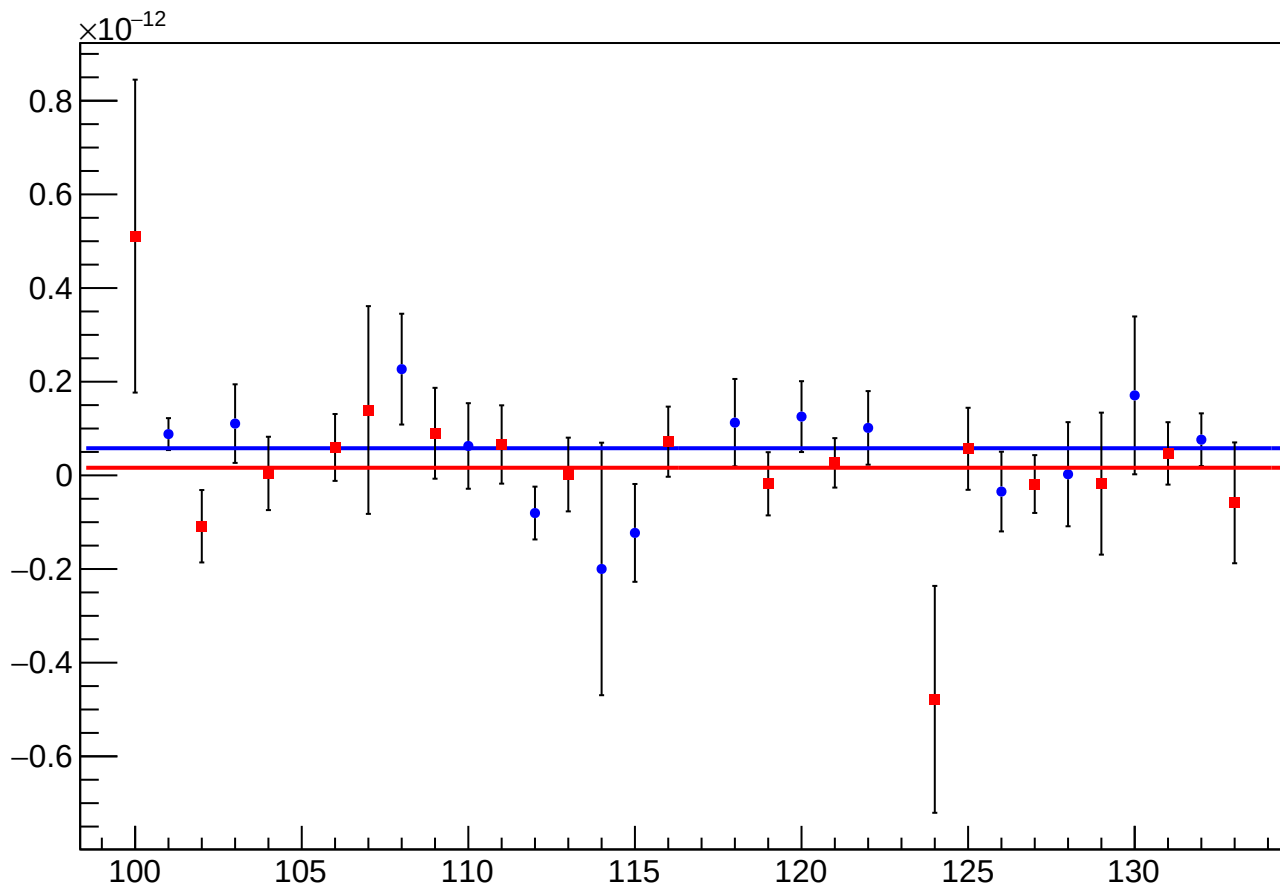
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.434+/-0.010  $\chi^2/\text{NDF}$ : 1379476.5/30

- 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  $\chi^2$ /NDF: 16.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.6/16

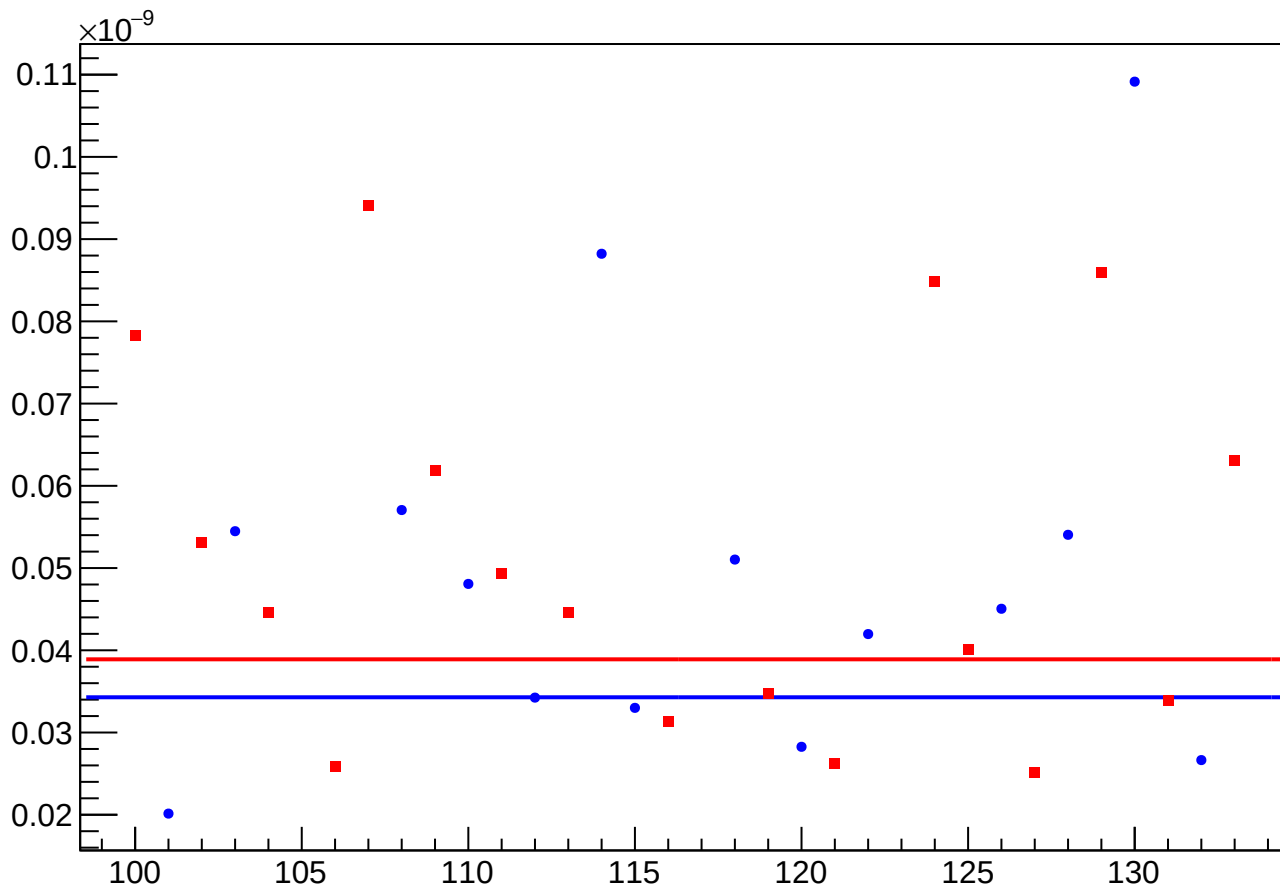
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 31.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_24\_68\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1283301.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1037994.1/16

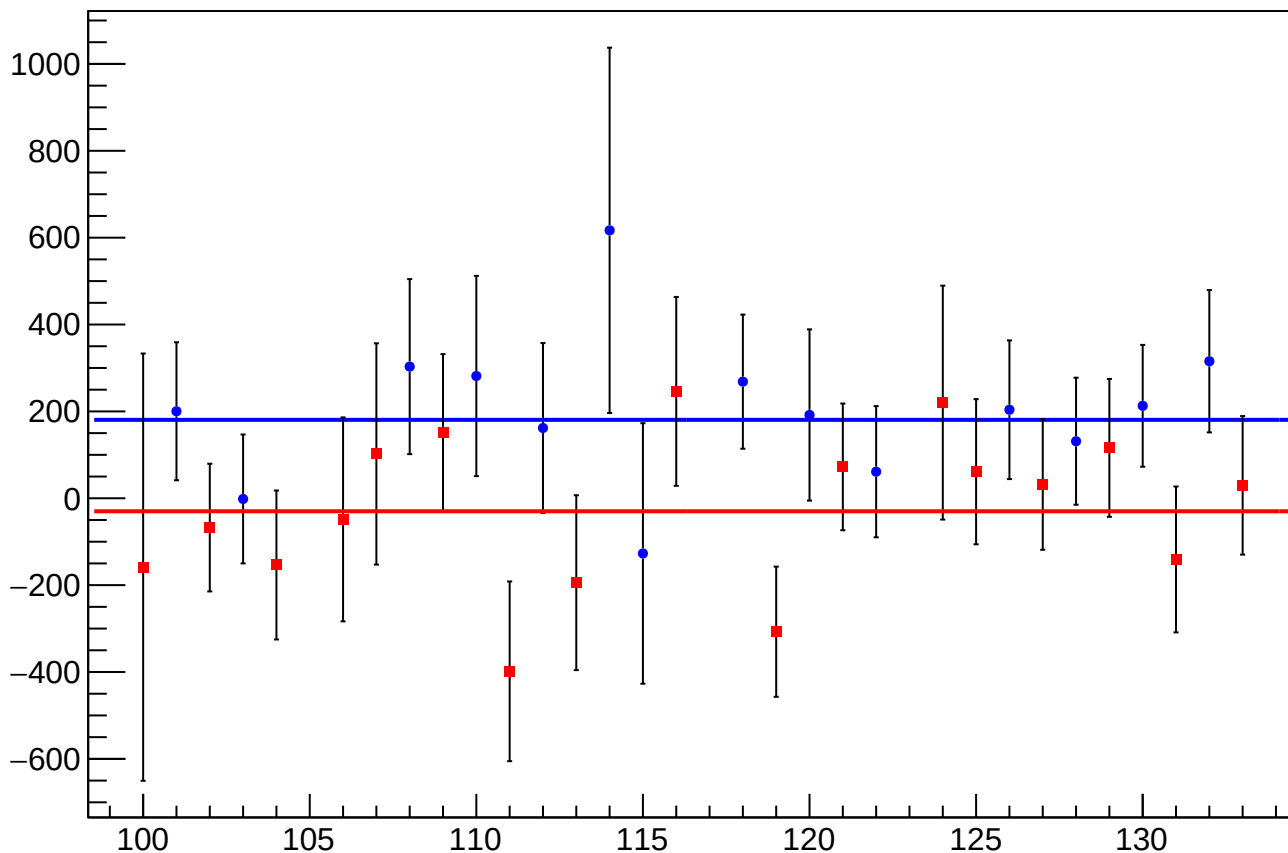
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2375533.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 180.570+/-46.779  $\chi^2/\text{NDF}$ : 6.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -29.944+/-43.964  $\chi^2/\text{NDF}$ : 14.0/16

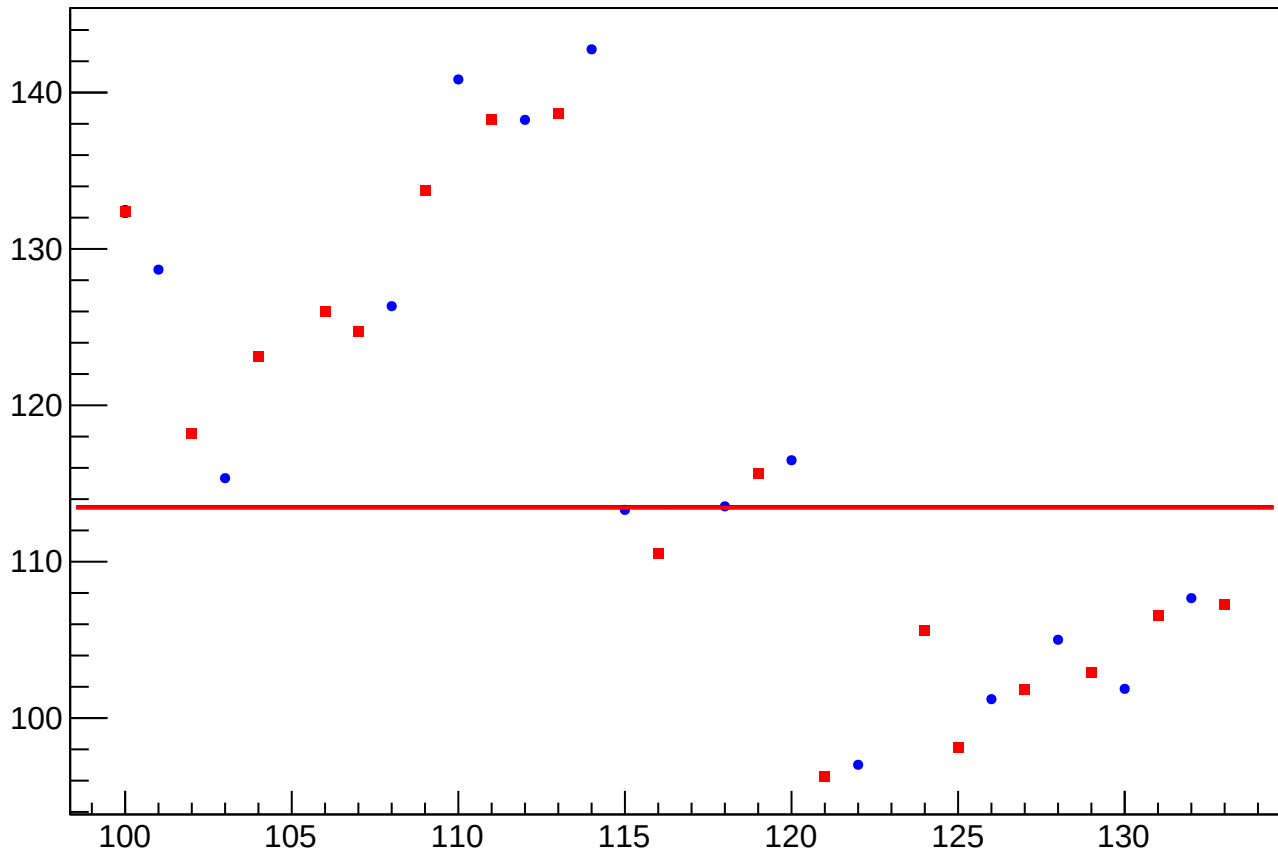
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 68.790+/-32.036  $\chi^2/\text{NDF}$ : 30.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 113.490 $\pm$ 0.033  $\chi^2$ /NDF: 155722.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 113.456 $\pm$ 0.031  $\chi^2$ /NDF: 180484.1/16

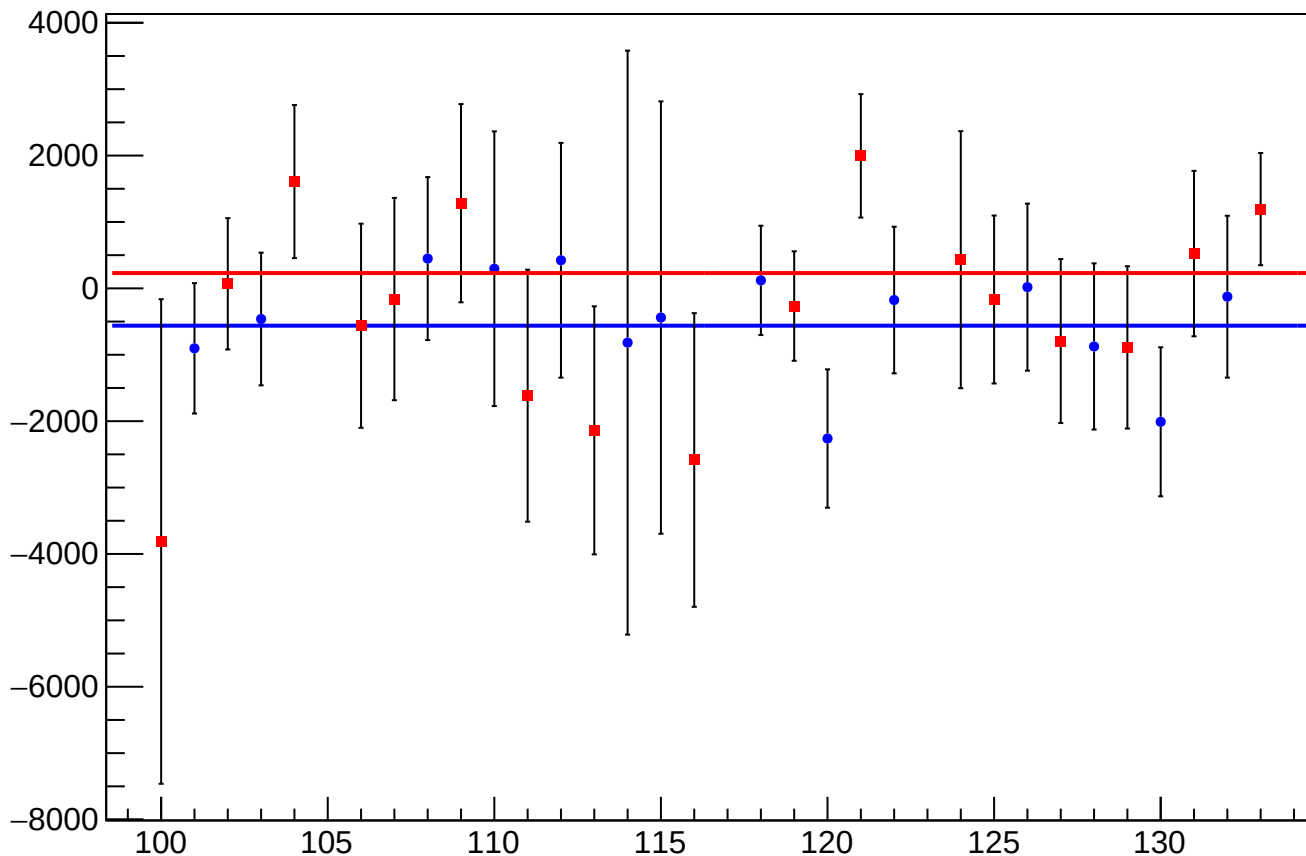
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 113.472 $\pm$ 0.023  $\chi^2$ /NDF: 336206.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_reg\_correction\_mean vs Slug



Right In: -561.926+/-326.911  $\chi^2/\text{NDF}$ : 6.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 230.665+/-304.127  $\chi^2/\text{NDF}$ : 14.6/16

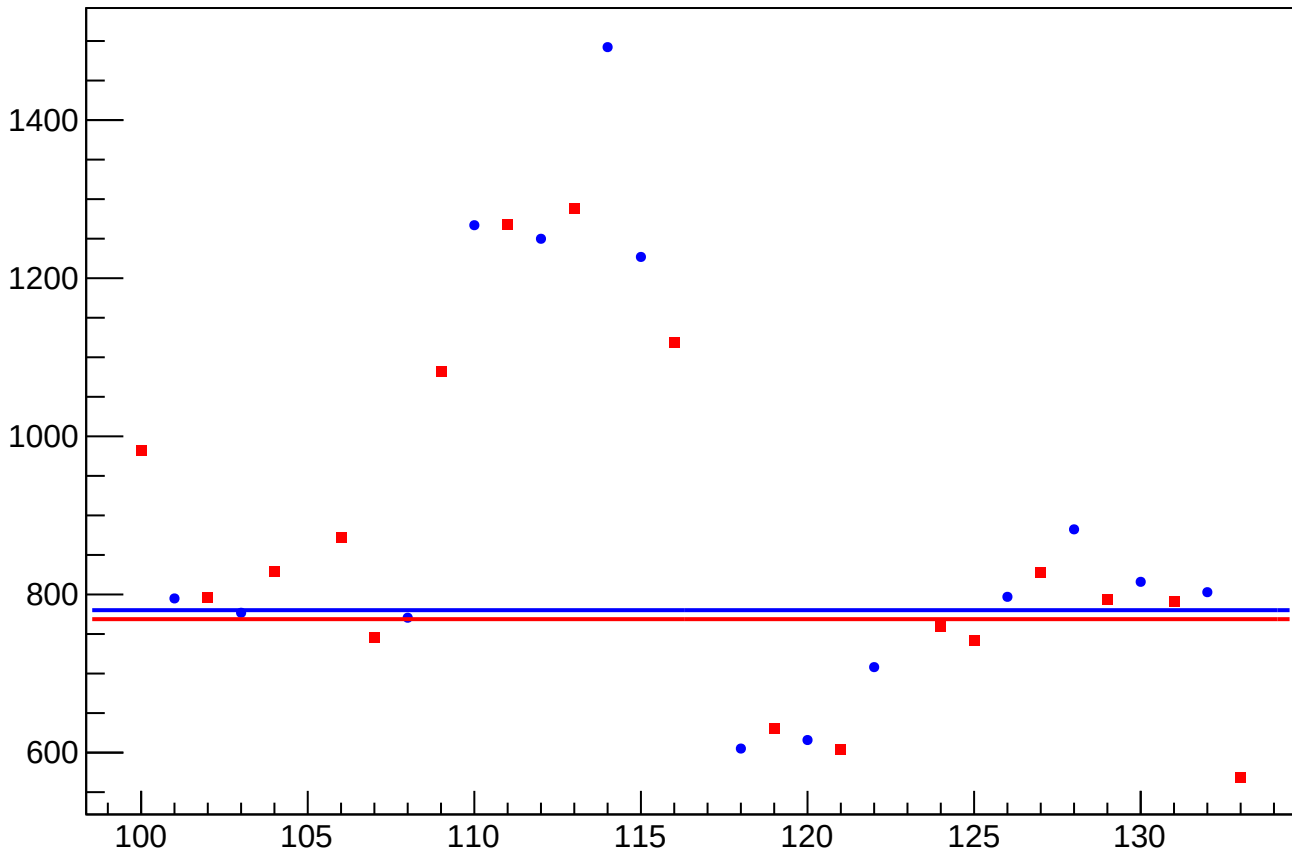
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -137.051+/-222.670  $\chi^2/\text{NDF}$ : 24.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_reg\_correction\_rms vs Slug



Right In: 780.161+/-0.231  $\chi^2/\text{NDF}$ : 507713.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 768.782+/-0.215  $\chi^2/\text{NDF}$ : 692992.0/16

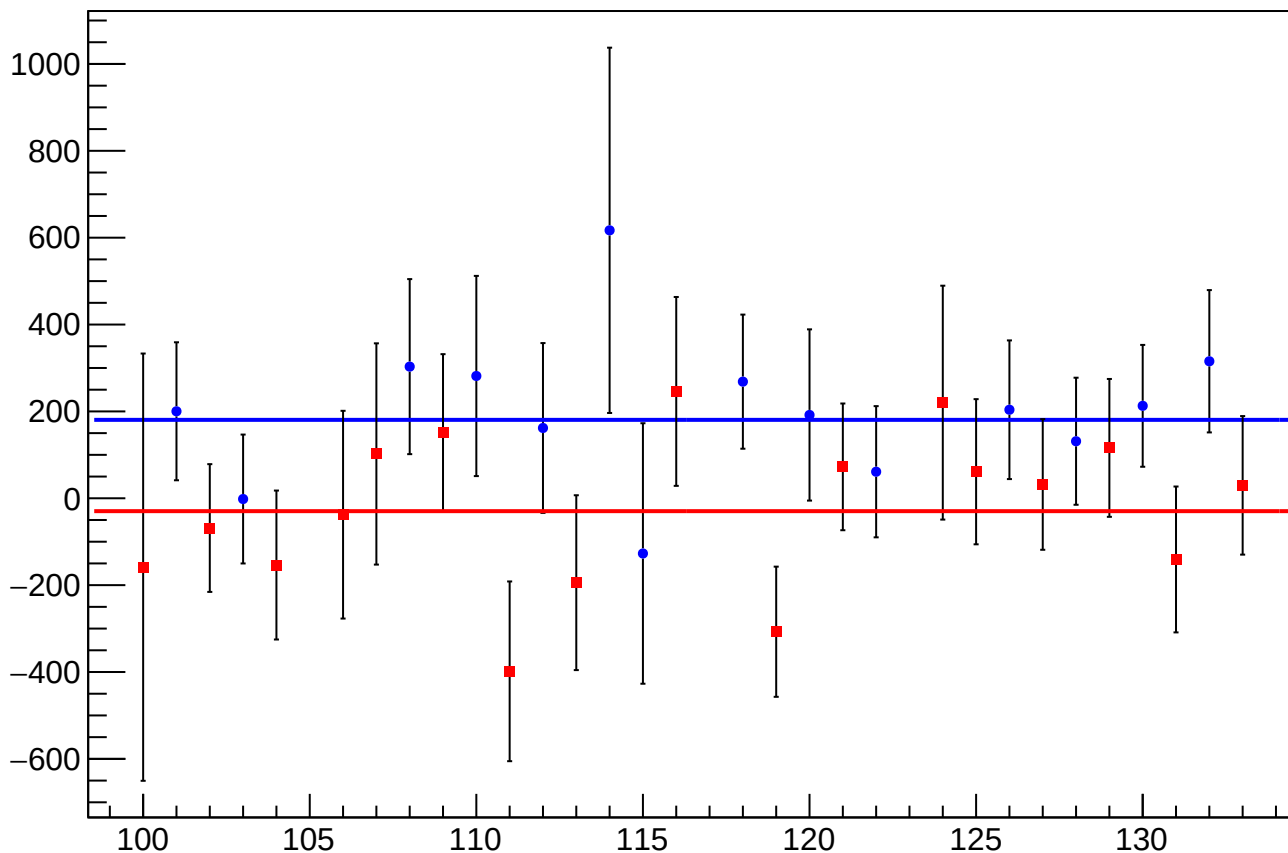
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 774.061+/-0.157  $\chi^2/\text{NDF}$ : 1202004.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 180.563 $\pm$ 46.779  $\chi^2$ /NDF: 6.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -29.651 $\pm$ 43.993  $\chi^2$ /NDF: 14.0/16

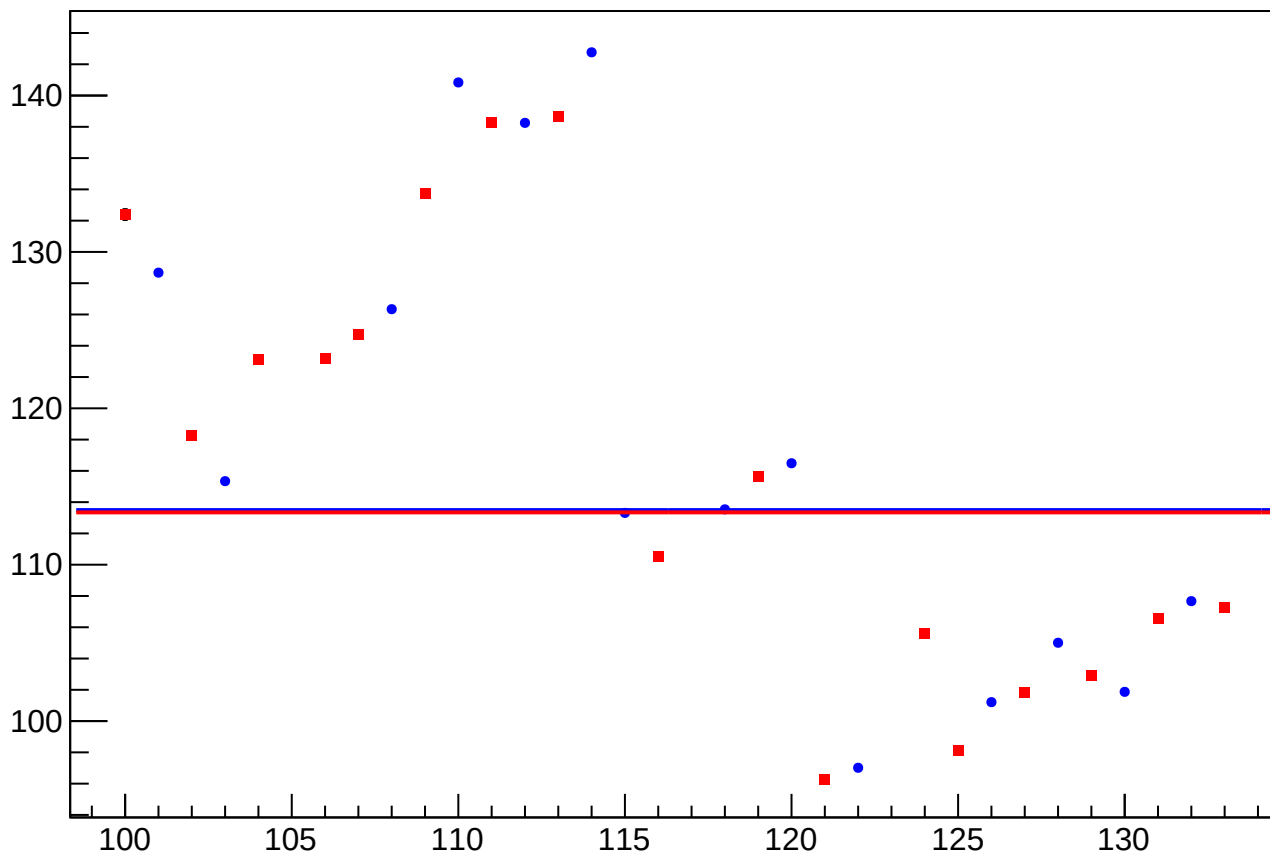
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 69.012 $\pm$ 32.047  $\chi^2$ /NDF: 30.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 113.490 $\pm$ 0.033  $\chi^2$ /NDF: 155722.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 113.347 $\pm$ 0.031  $\chi^2$ /NDF: 178082.7/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

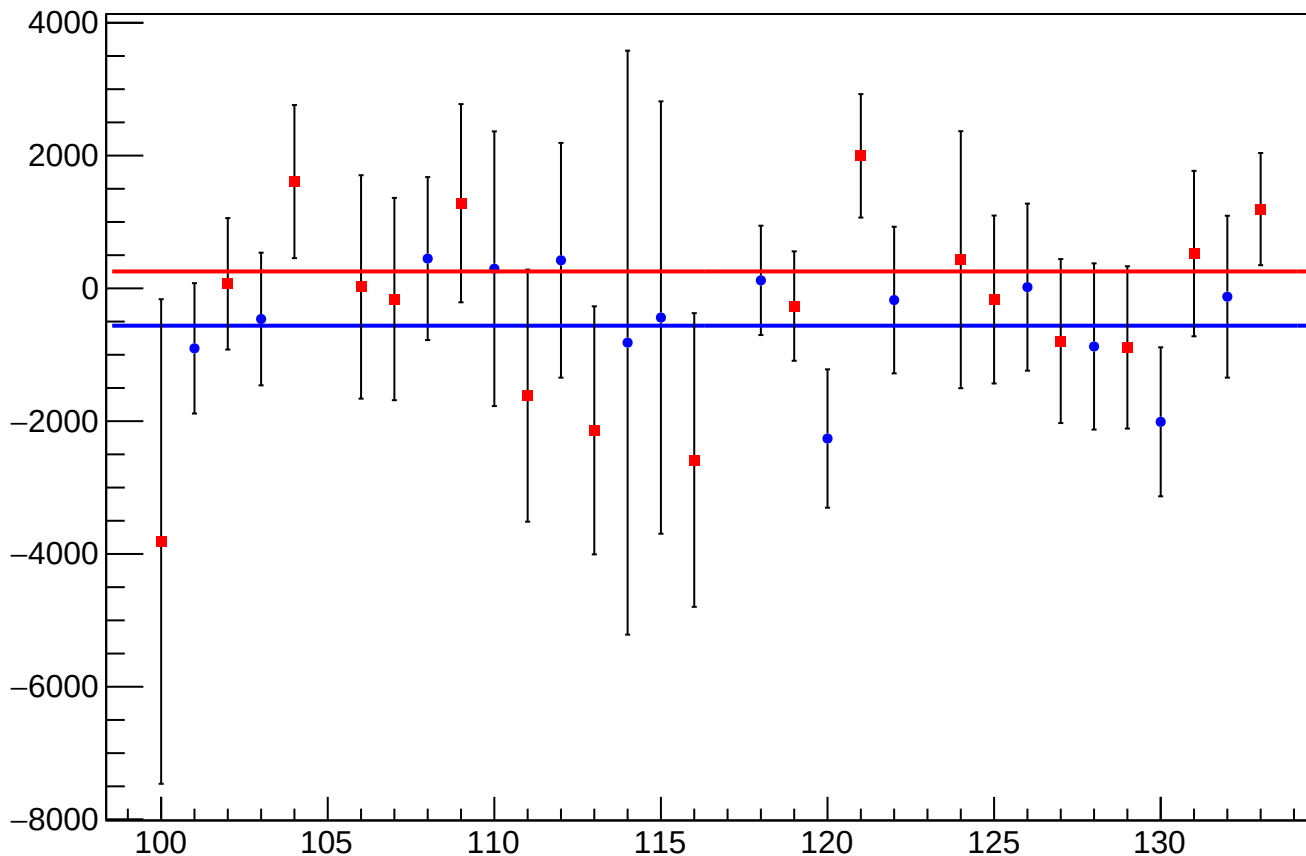
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 113.414 $\pm$ 0.023  $\chi^2$ /NDF: 333814.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_26\_48\_dd\_cor\_correction\_mean vs Slug



Right In: -561.907 $\pm$ 326.912  $\chi^2$ /NDF: 6.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 255.044 $\pm$ 305.133  $\chi^2$ /NDF: 14.4/16

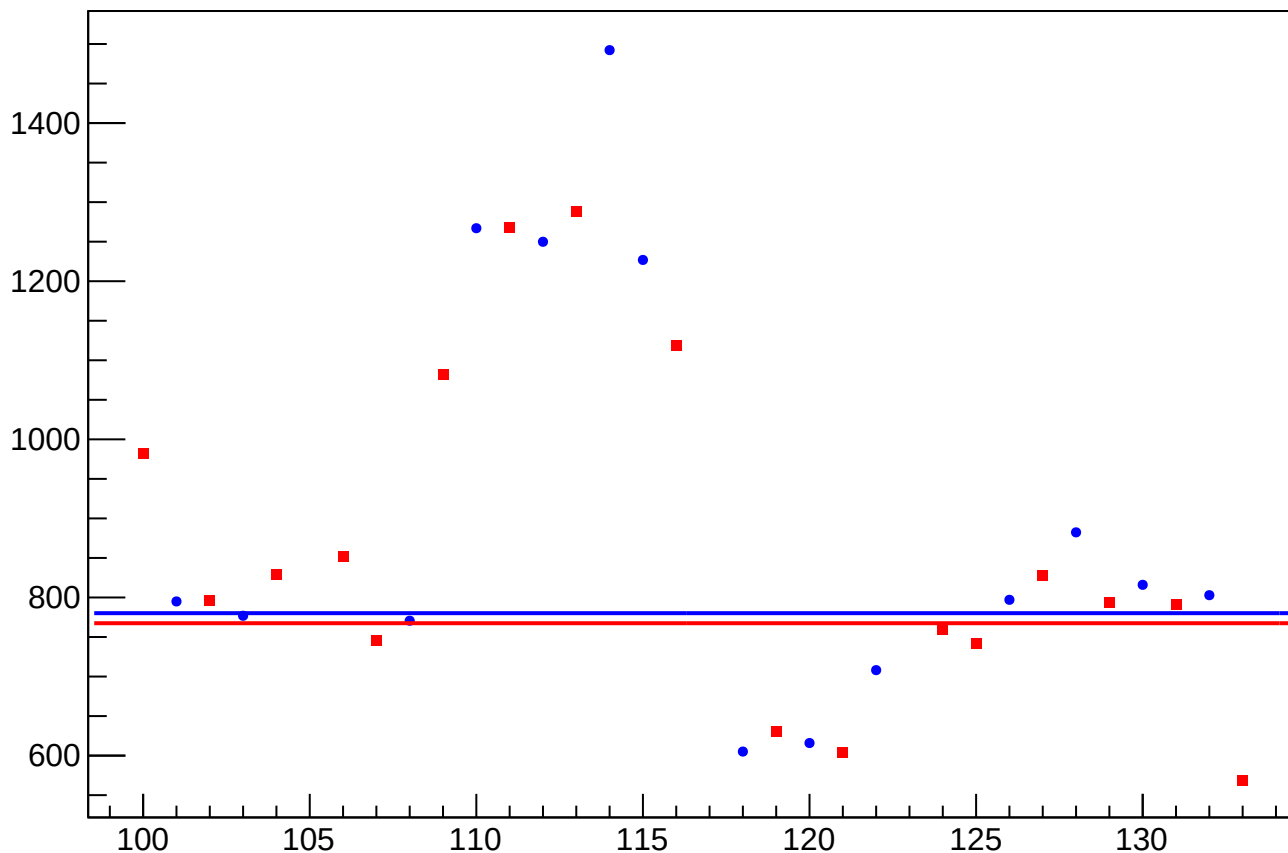
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -125.315 $\pm$ 223.064  $\chi^2$ /NDF: 24.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_cor\_correction\_rms vs Slug



Right In: 780.162 $\pm$ 0.231  $\chi^2$ /NDF: 507719.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 767.464 $\pm$ 0.216  $\chi^2$ /NDF: 688742.5/16

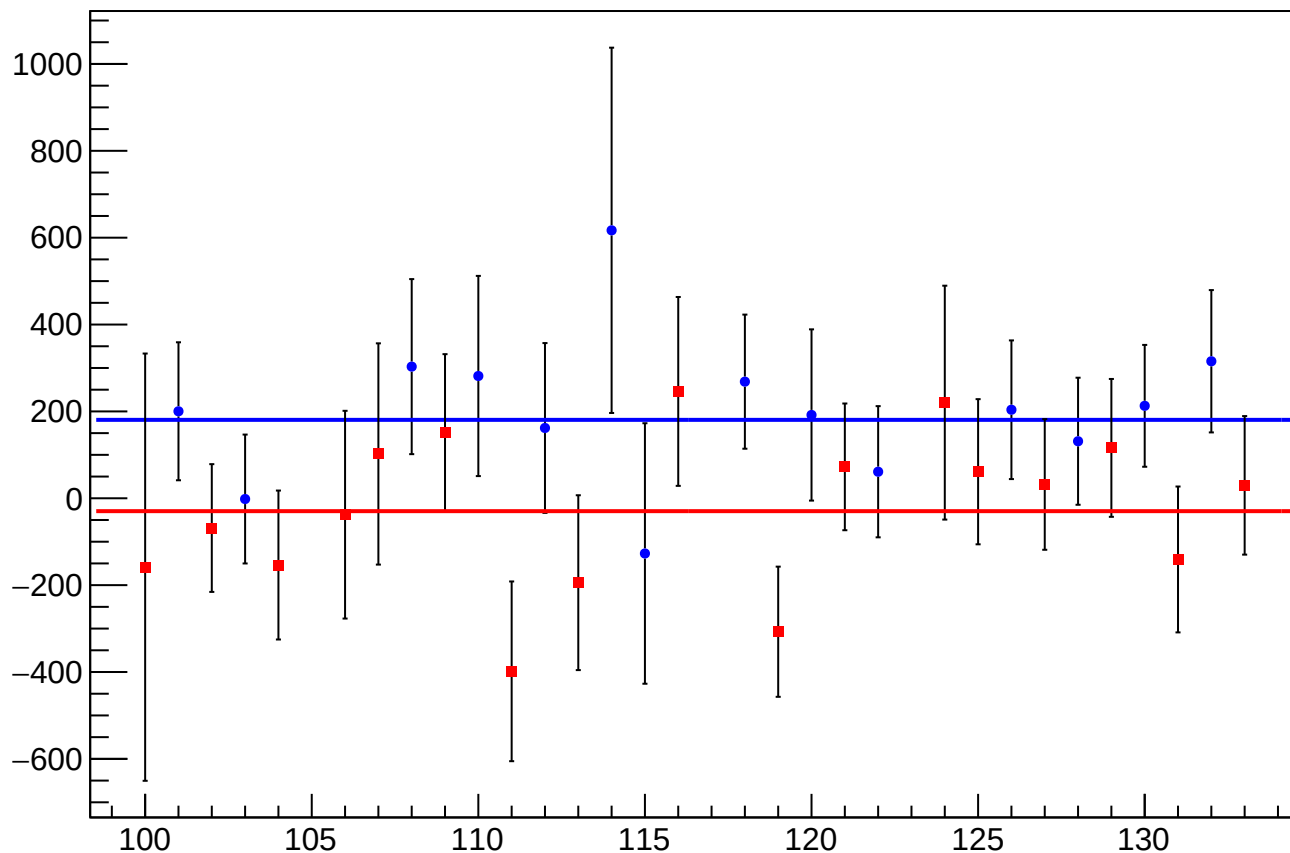
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 773.376 $\pm$ 0.158  $\chi^2$ /NDF: 1198075.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 180.563 $\pm$ 46.779  $\chi^2$ /NDF: 6.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -29.651 $\pm$ 43.993  $\chi^2$ /NDF: 14.0/16

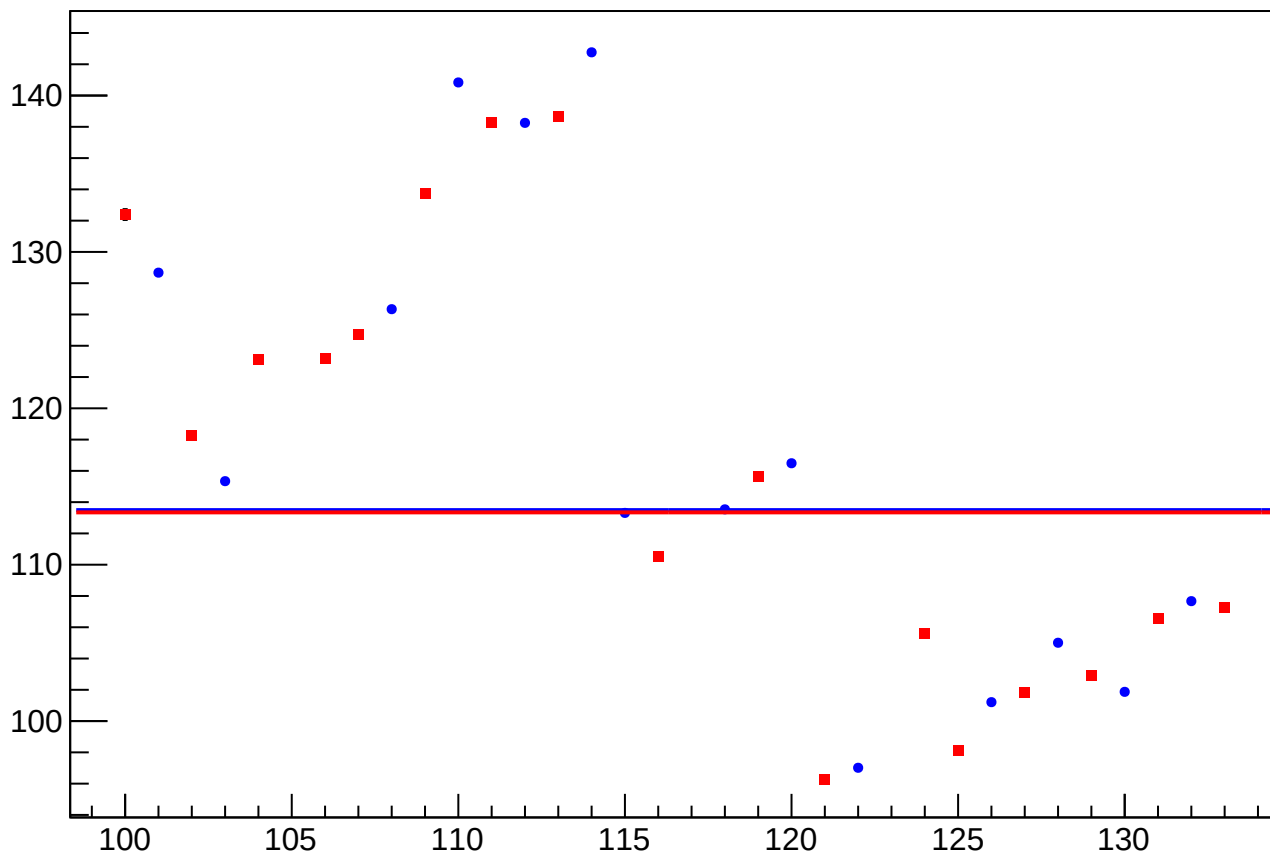
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 69.012 $\pm$ 32.047  $\chi^2$ /NDF: 30.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 113.490 $\pm$ 0.033  $\chi^2$ /NDF: 155722.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 113.347 $\pm$ 0.031  $\chi^2$ /NDF: 178082.7/16

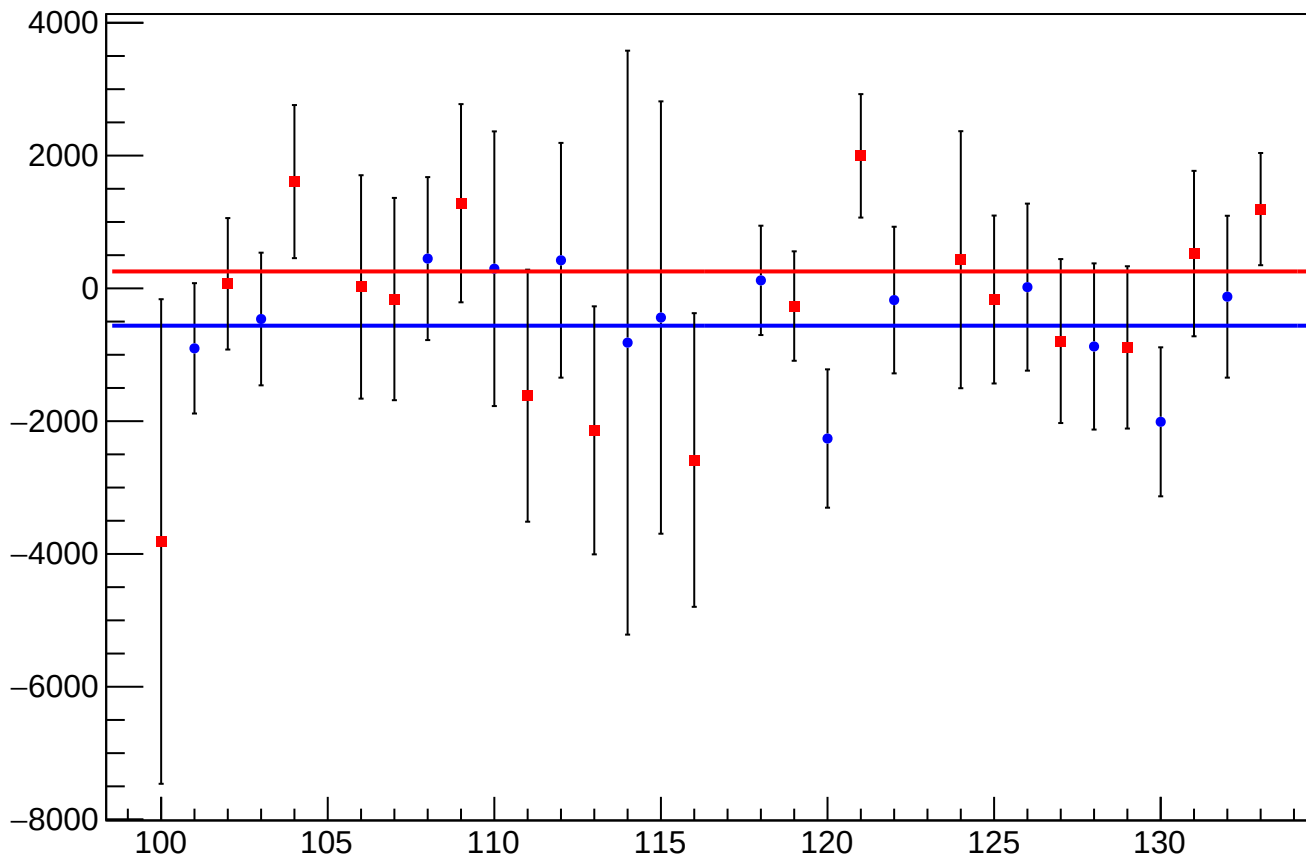
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 113.414 $\pm$ 0.023  $\chi^2$ /NDF: 333814.9/30

- 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: -561.907 $\pm$ 326.912  $\chi^2$ /NDF: 6.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 255.044 $\pm$ 305.133  $\chi^2$ /NDF: 14.4/16

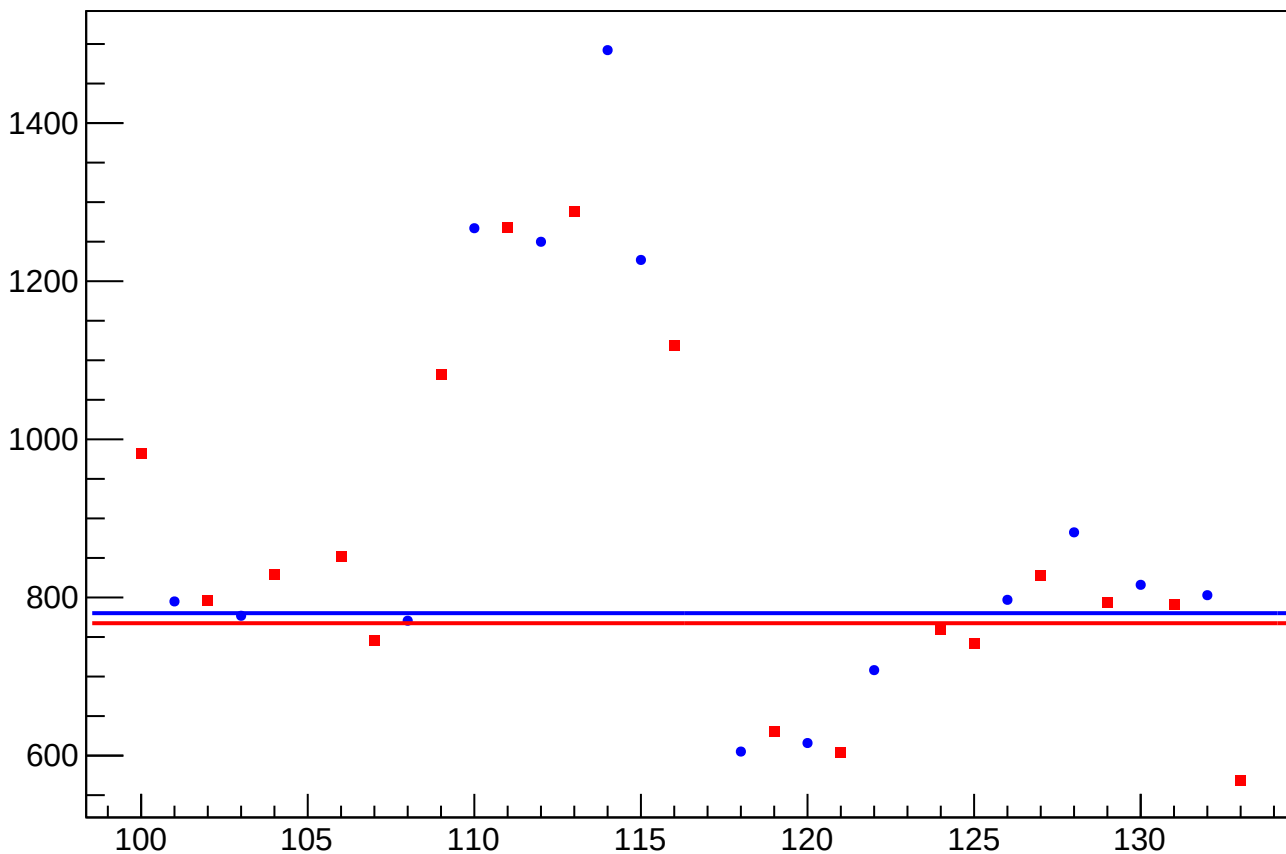
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -125.315 $\pm$ 223.064  $\chi^2$ /NDF: 24.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 780.162 $\pm$ 0.231  $\chi^2$ /NDF: 507719.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 767.464 $\pm$ 0.216  $\chi^2$ /NDF: 688742.5/16

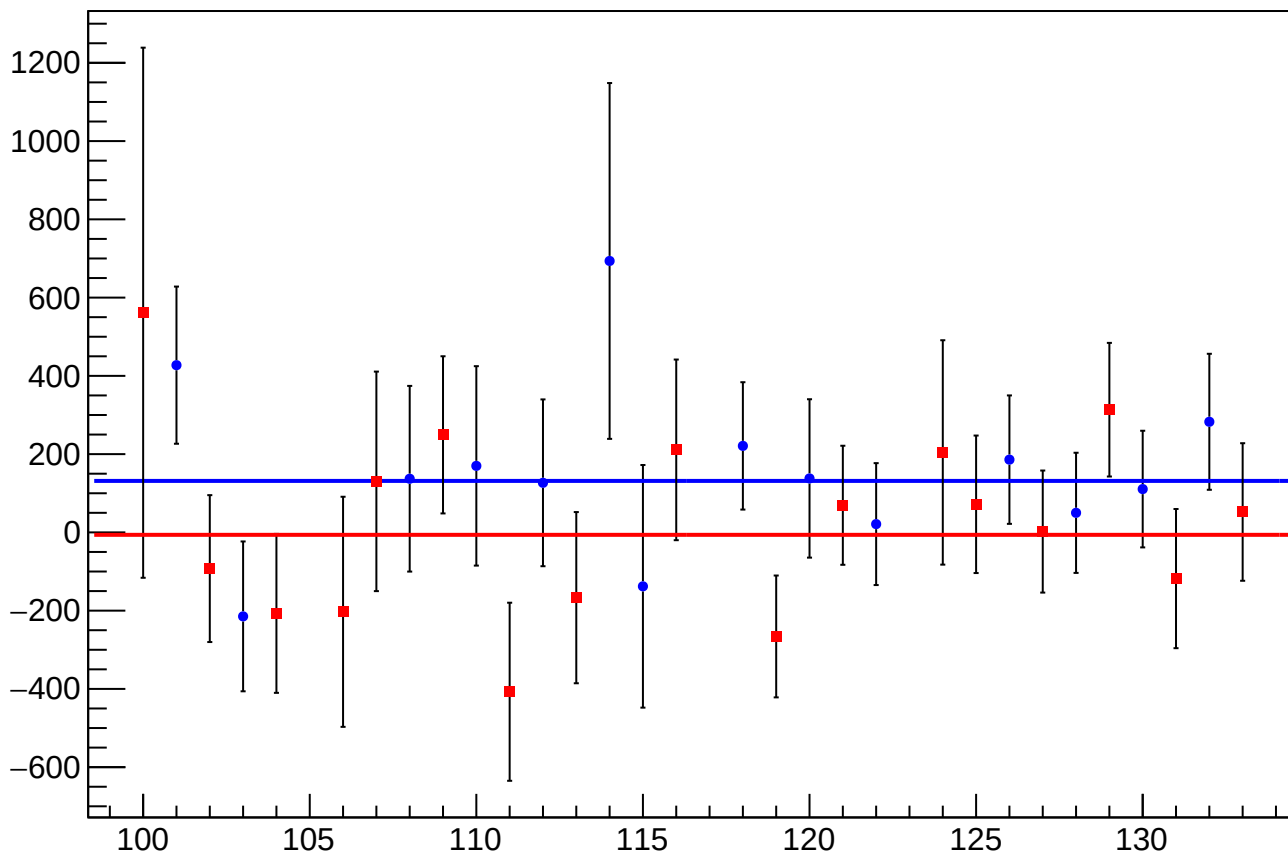
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 773.376 $\pm$ 0.158  $\chi^2$ /NDF: 1198075.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 131.548 $\pm$ 51.061  $\chi^2$ /NDF: 9.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -6.240 $\pm$ 48.153  $\chi^2$ /NDF: 16.5/16

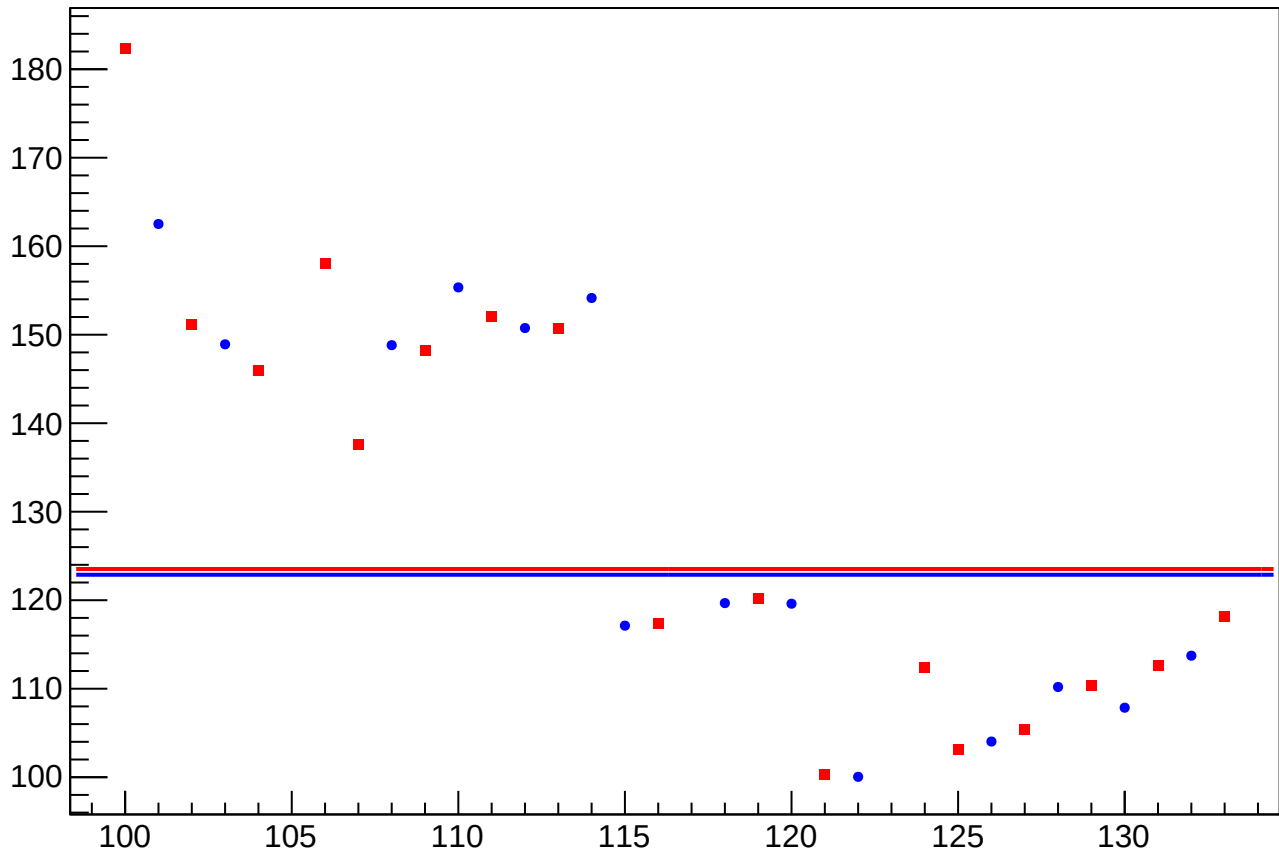
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 58.619 $\pm$ 35.032  $\chi^2$ /NDF: 30.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 122.878+/-0.036  $\chi^2/\text{NDF}$ : 325761.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 123.530+/-0.034  $\chi^2/\text{NDF}$ : 335004.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

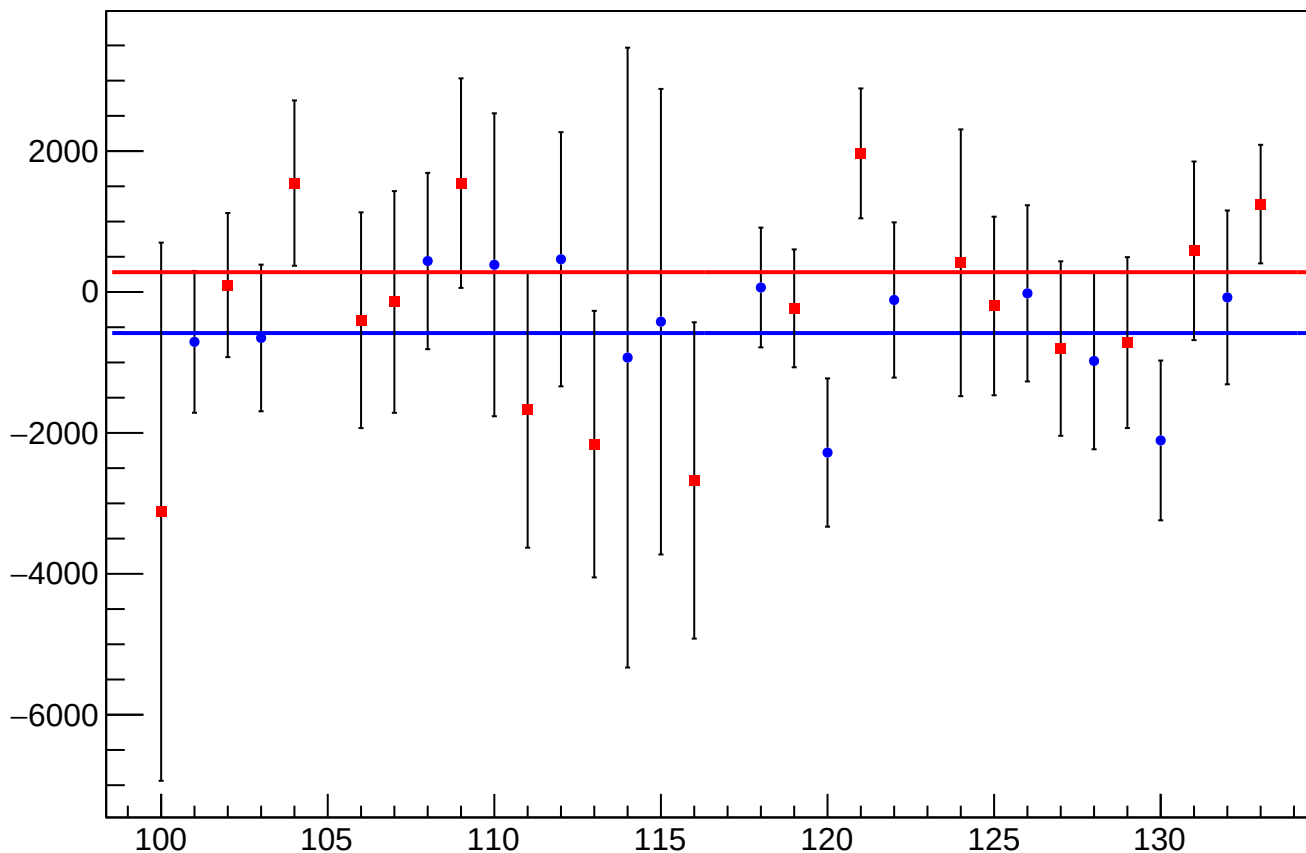
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 123.223+/-0.025  $\chi^2/\text{NDF}$ : 660938.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_26\_48\_dd\_dit\_correction\_mean vs Slug



Right In: -582.570+/-332.624  $\chi^2/\text{NDF}$ : 6.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 281.133+/-306.474  $\chi^2/\text{NDF}$ : 14.1/16

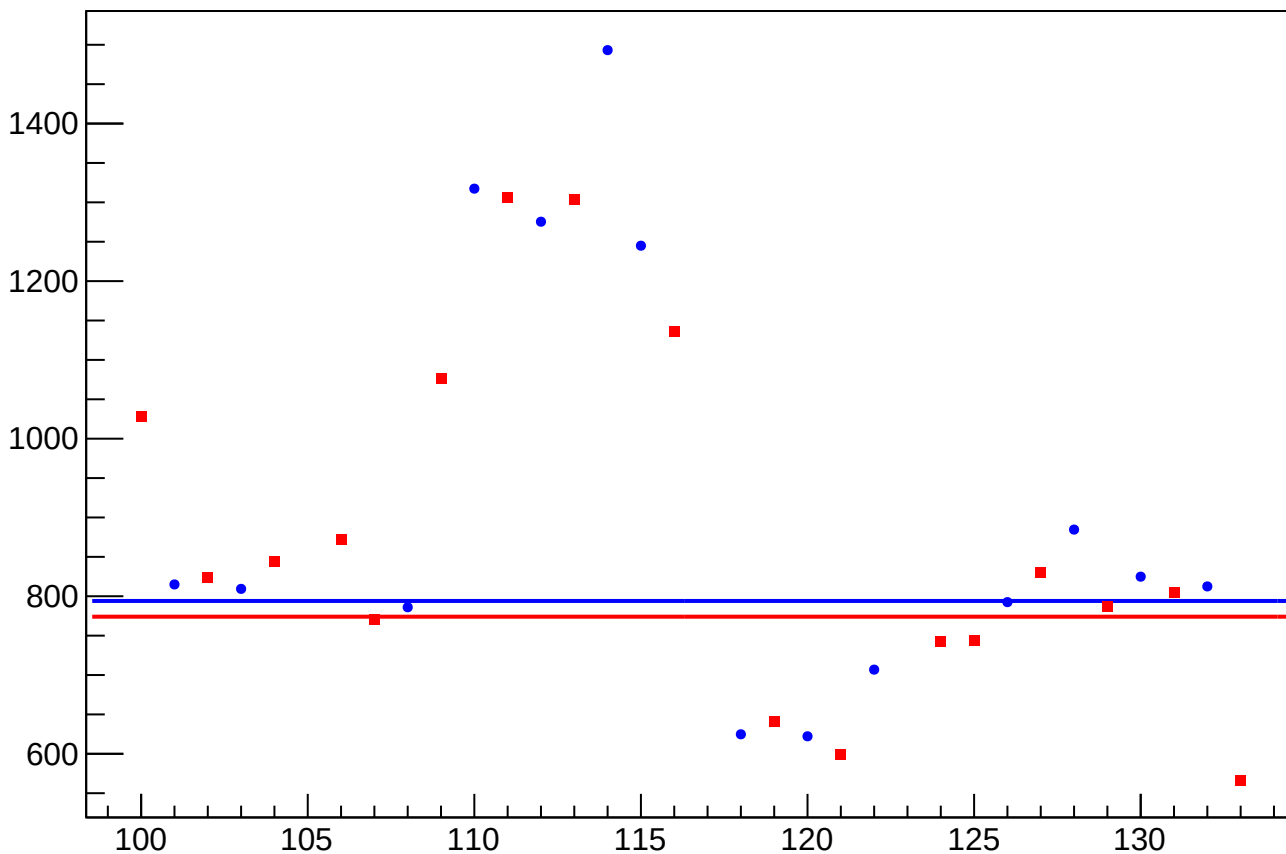
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -115.438+/-225.388  $\chi^2/\text{NDF}$ : 24.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_dit\_correction\_rms vs Slug



Right In: 794.021+/-0.235  $\chi^2/\text{NDF}$ : 507651.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 774.041+/-0.217  $\chi^2/\text{NDF}$ : 720655.6/16

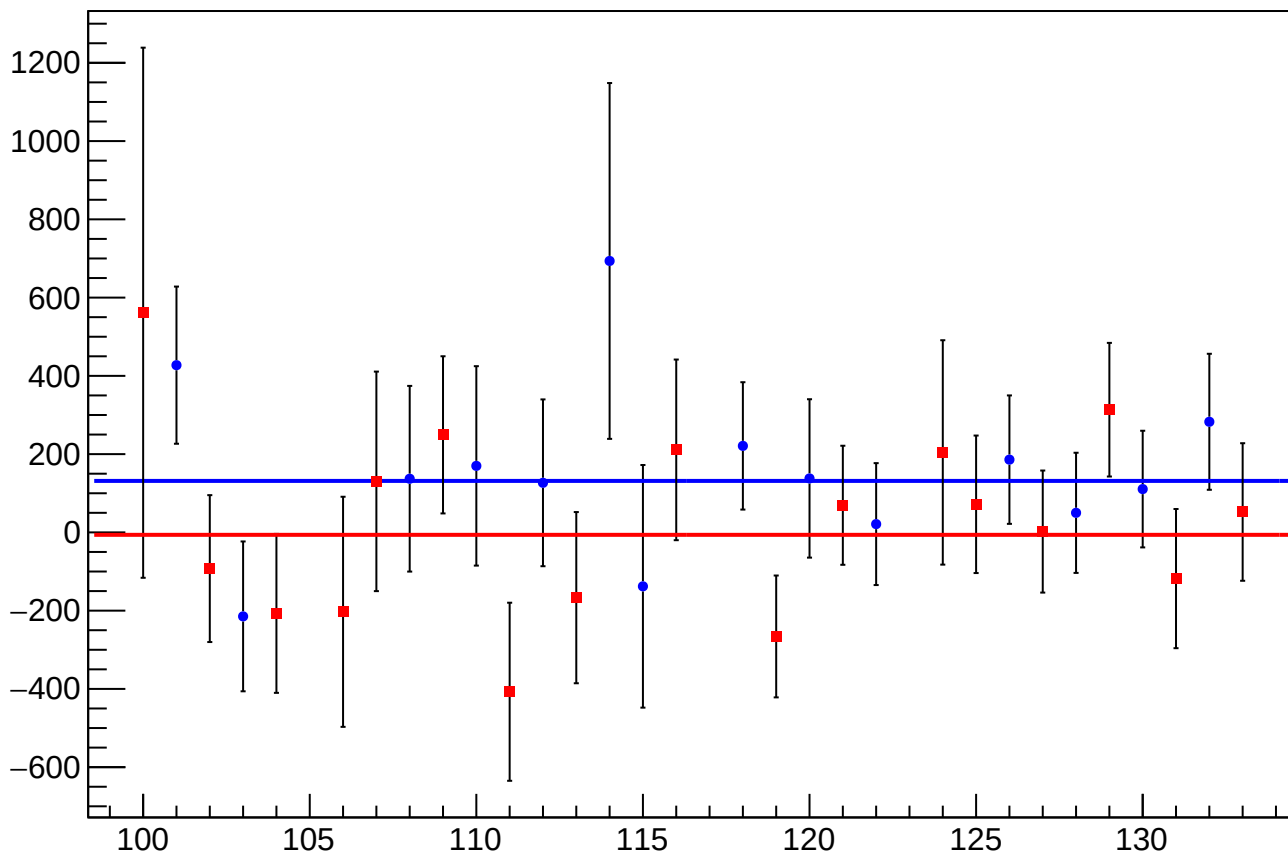
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 783.215+/-0.159  $\chi^2/\text{NDF}$ : 1232209.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 131.547 $\pm$ 51.061  $\chi^2$ /NDF: 9.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -6.240 $\pm$ 48.153  $\chi^2$ /NDF: 16.5/16

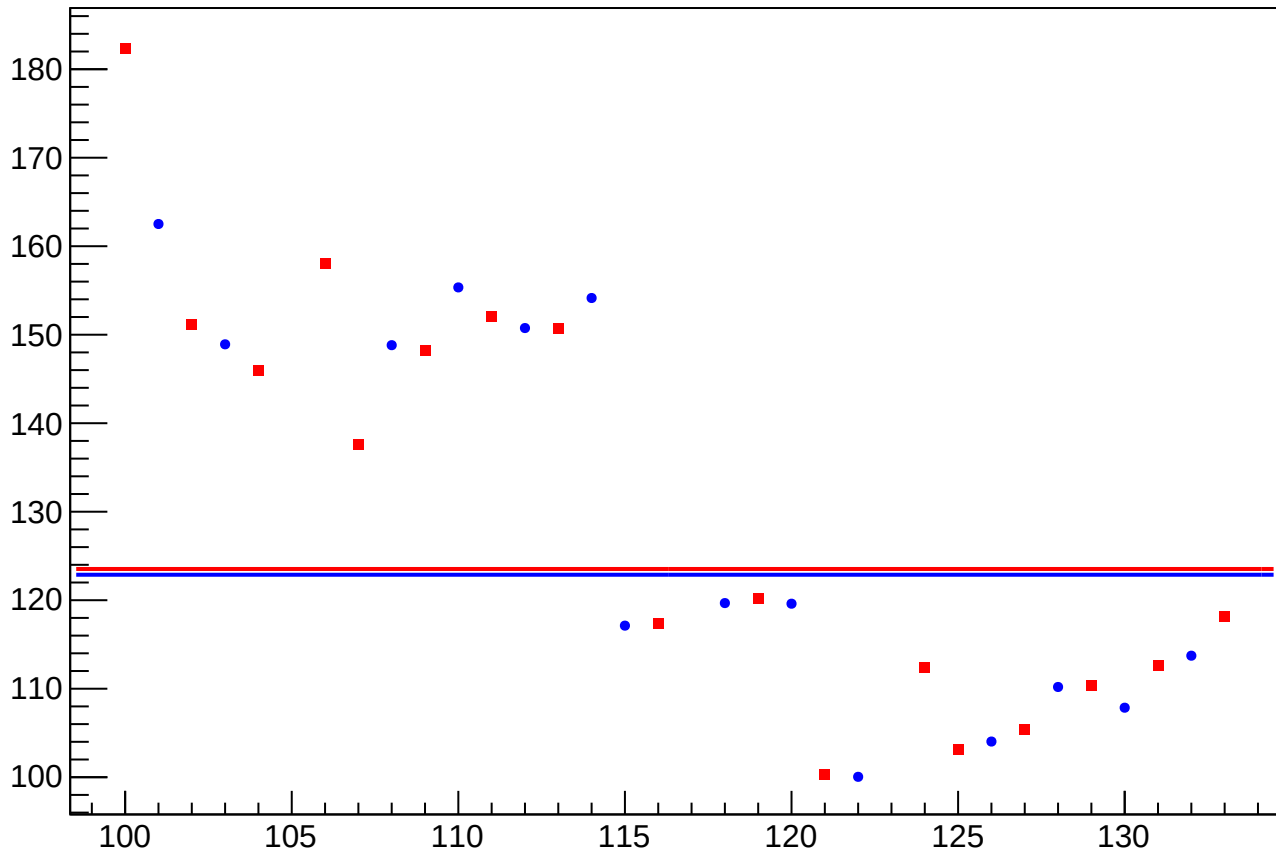
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 58.618 $\pm$ 35.032  $\chi^2$ /NDF: 30.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 122.878 $\pm$ 0.036  $\chi^2$ /NDF: 325751.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 123.530 $\pm$ 0.034  $\chi^2$ /NDF: 334997.5/16

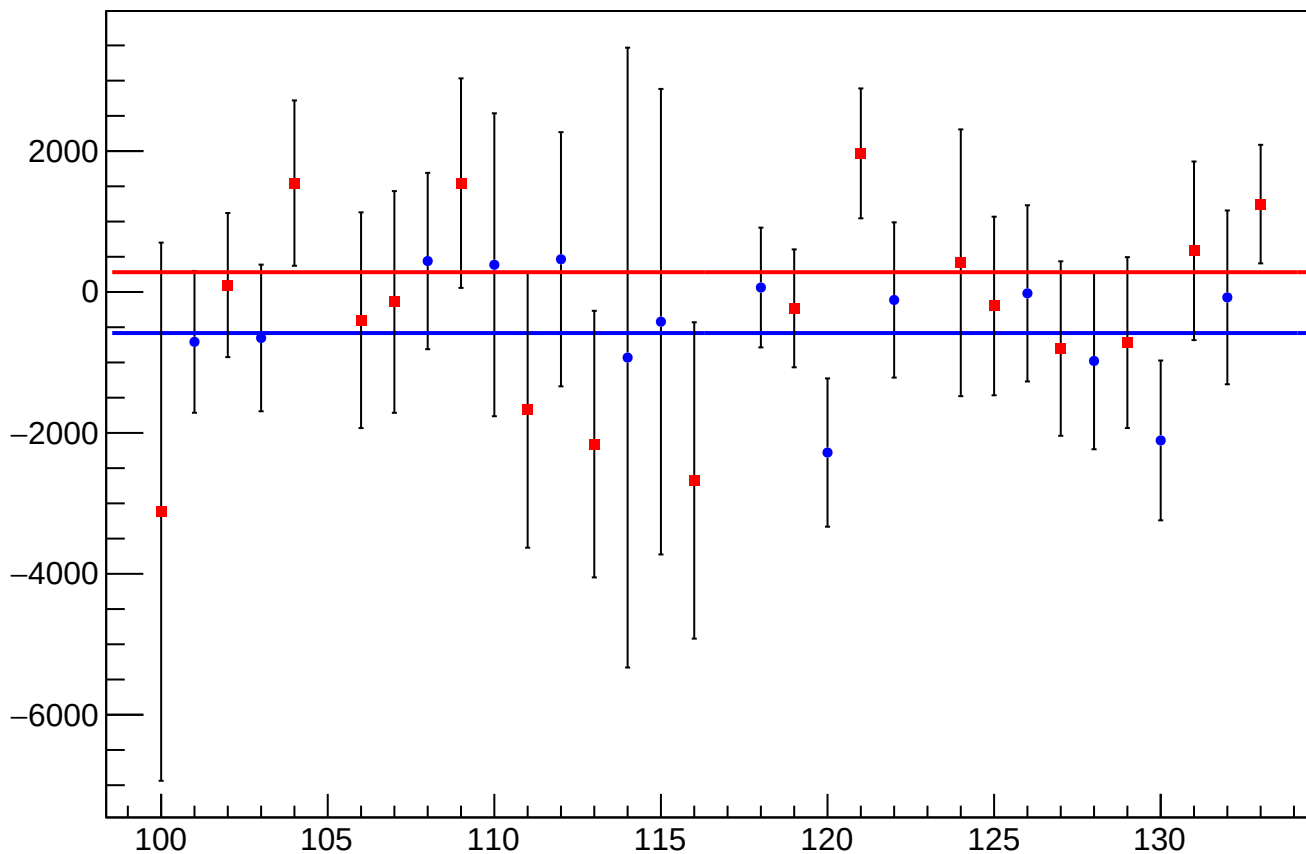
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 123.223 $\pm$ 0.025  $\chi^2$ /NDF: 660921.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -582.570+/-332.624  $\chi^2/\text{NDF}$ : 6.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 281.133+/-306.474  $\chi^2/\text{NDF}$ : 14.1/16

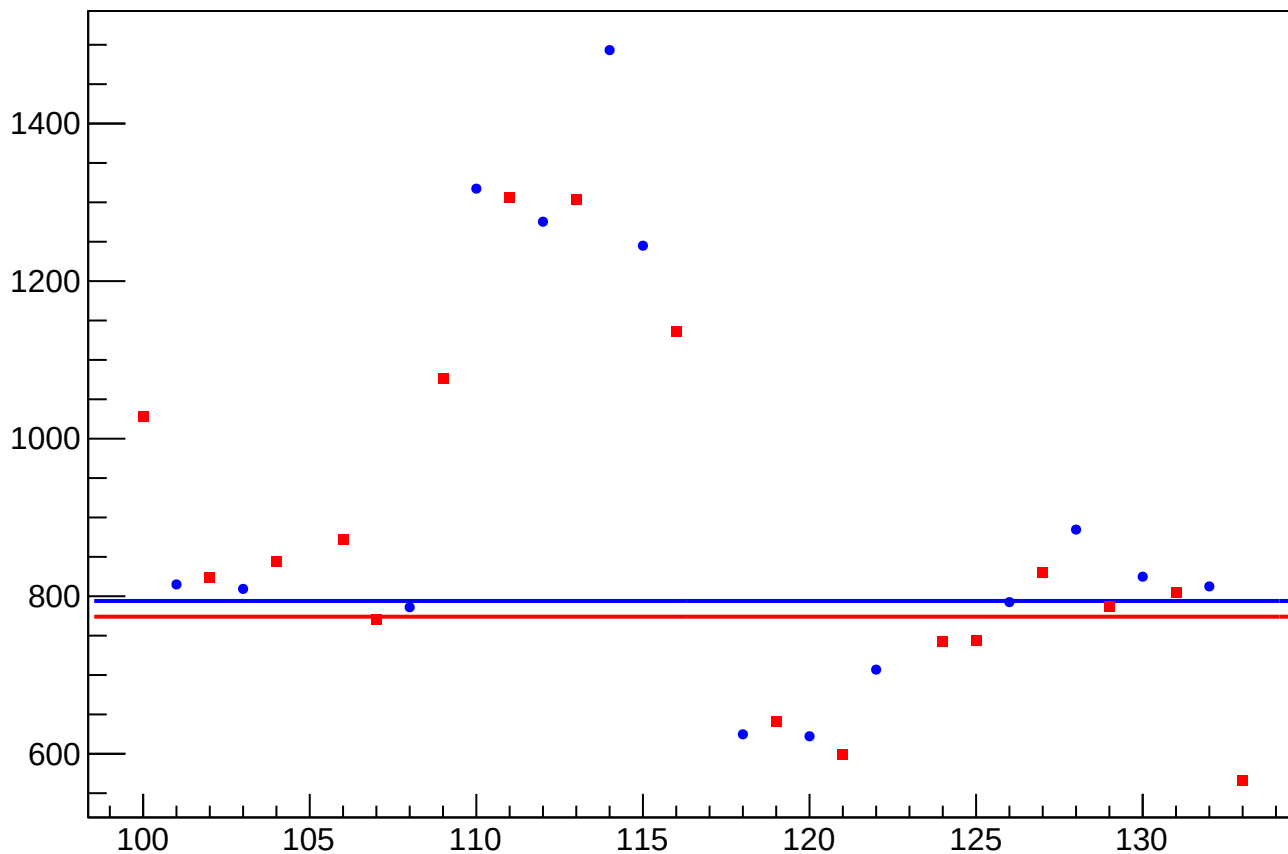
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -115.438+/-225.388  $\chi^2/\text{NDF}$ : 24.6/30

- 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: 794.020 $\pm$ 0.235  $\chi^2$ /NDF: 507646.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 774.041 $\pm$ 0.217  $\chi^2$ /NDF: 720649.2/16

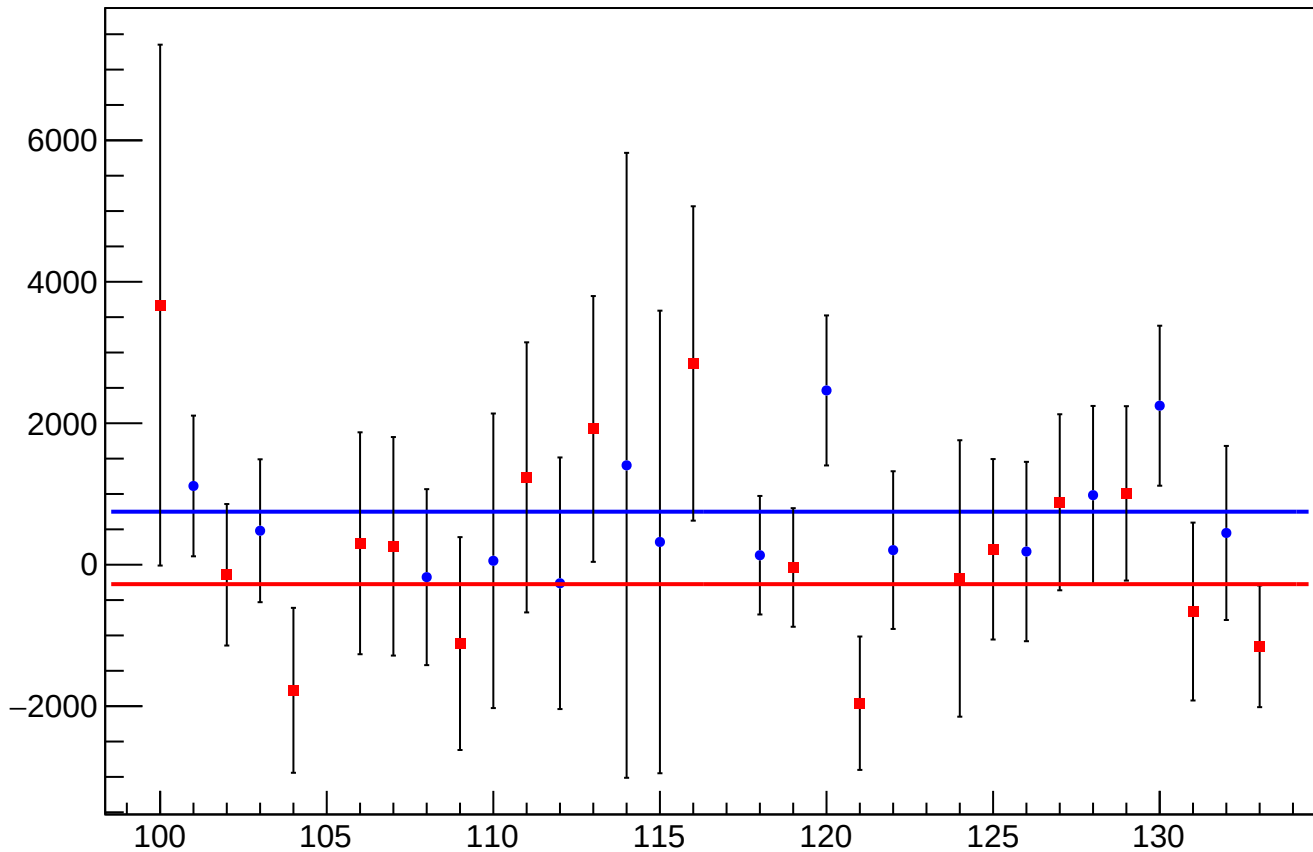
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 783.215 $\pm$ 0.159  $\chi^2$ /NDF: 1232197.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 749.536 $\pm$ 330.784  $\chi^2$ /NDF: 6.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -274.877 $\pm$ 307.922  $\chi^2$ /NDF: 13.9/16

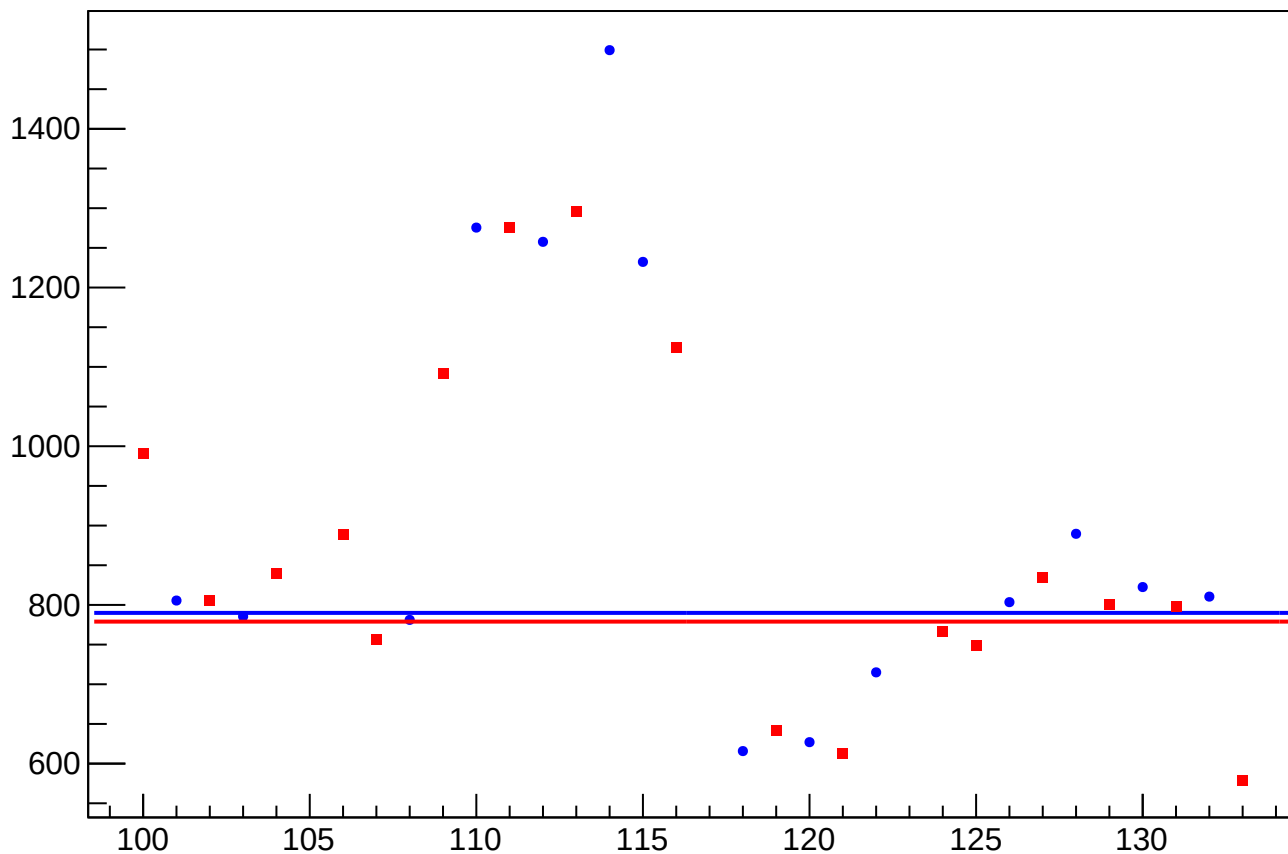
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 200.708 $\pm$ 225.383  $\chi^2$ /NDF: 25.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 789.962 $\pm$ 0.234  $\chi^2$ /NDF: 493359.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 778.967 $\pm$ 0.218  $\chi^2$ /NDF: 674963.7/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

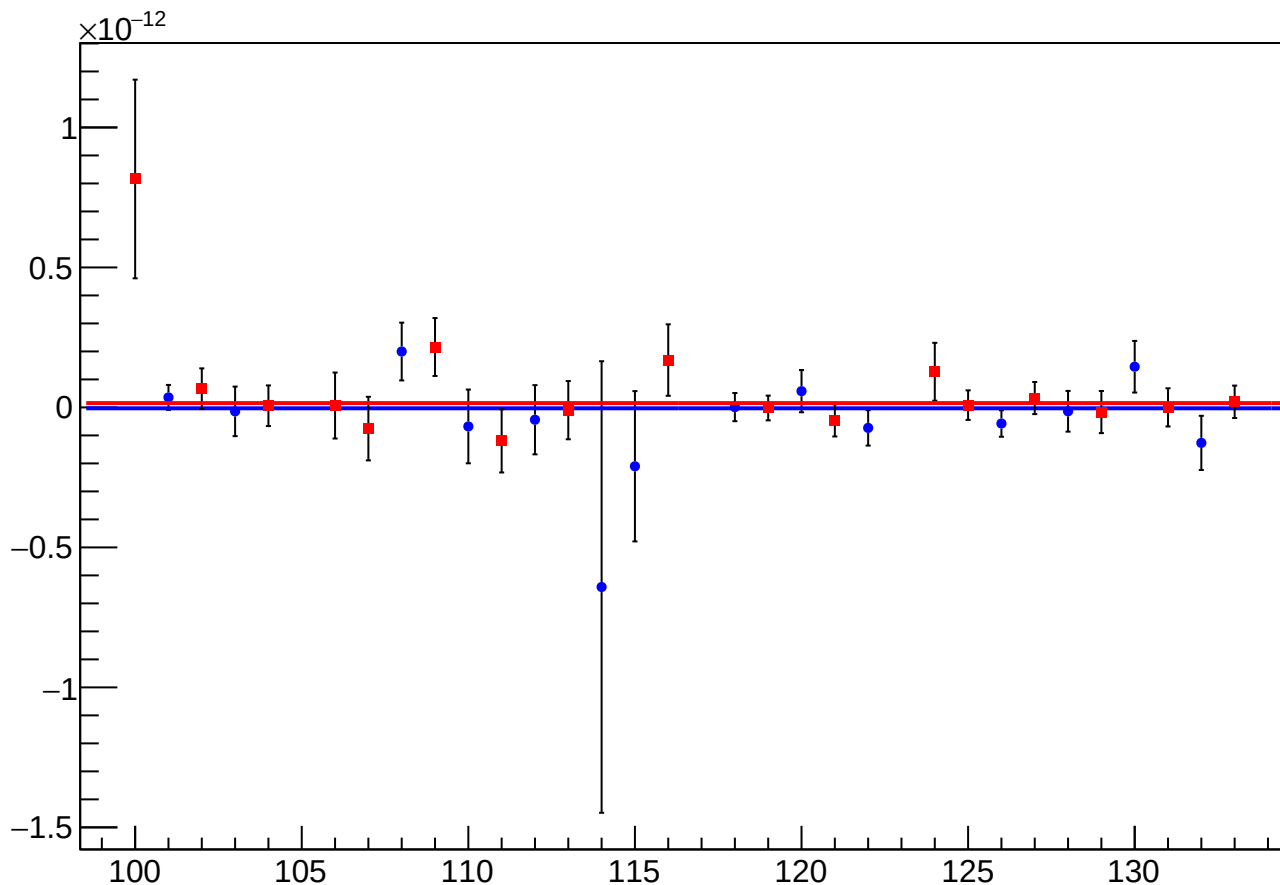
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 784.072 $\pm$ 0.159  $\chi^2$ /NDF: 1169506.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_26\_48\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 15.8/16

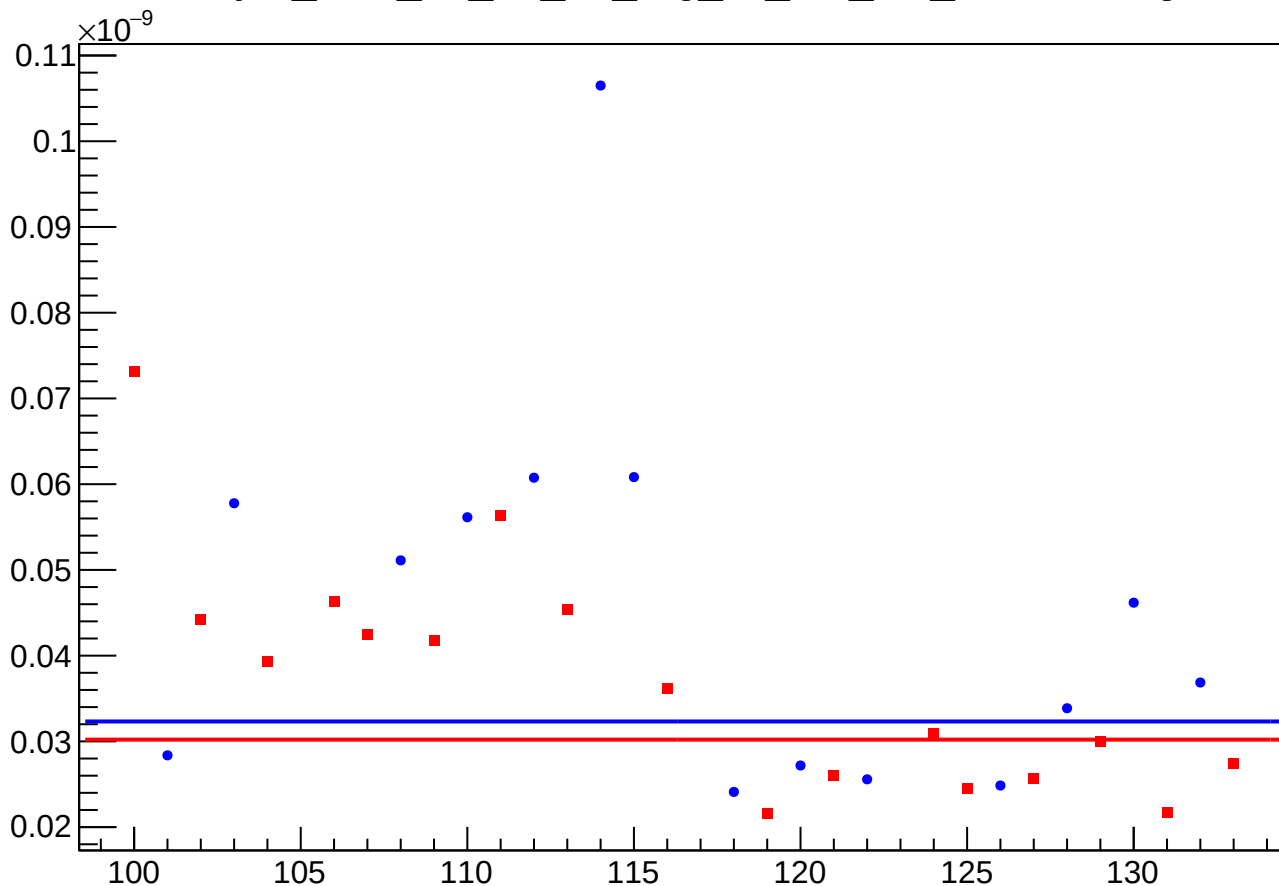
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 29.9/30

- sign 0.000 $\pm$ 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 $\pm$ 0.000  $\chi^2$ /NDF: 644033.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 533252.8/16

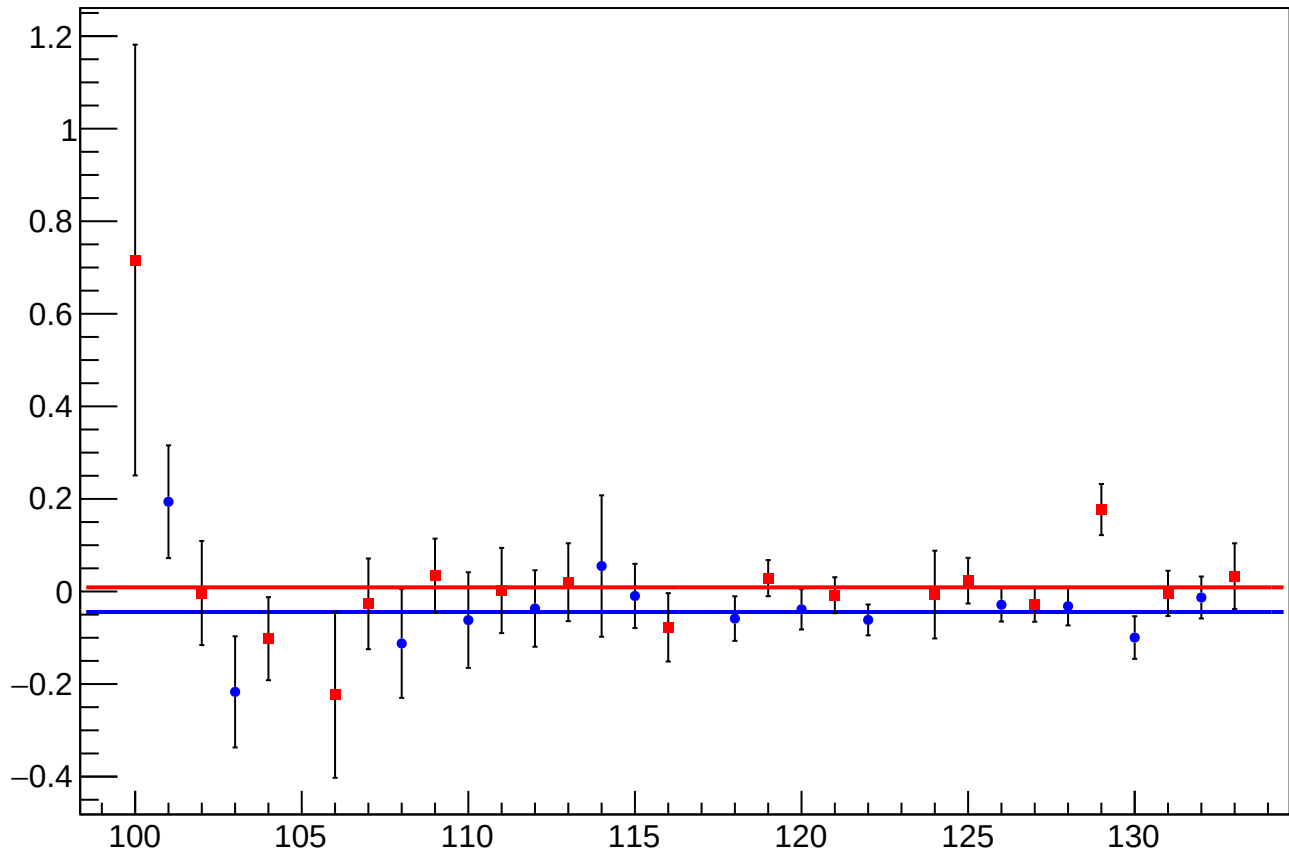
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1189885.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.044 $\pm$ 0.014  $\chi^2$ /NDF: 9.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009 $\pm$ 0.015  $\chi^2$ /NDF: 18.2/16

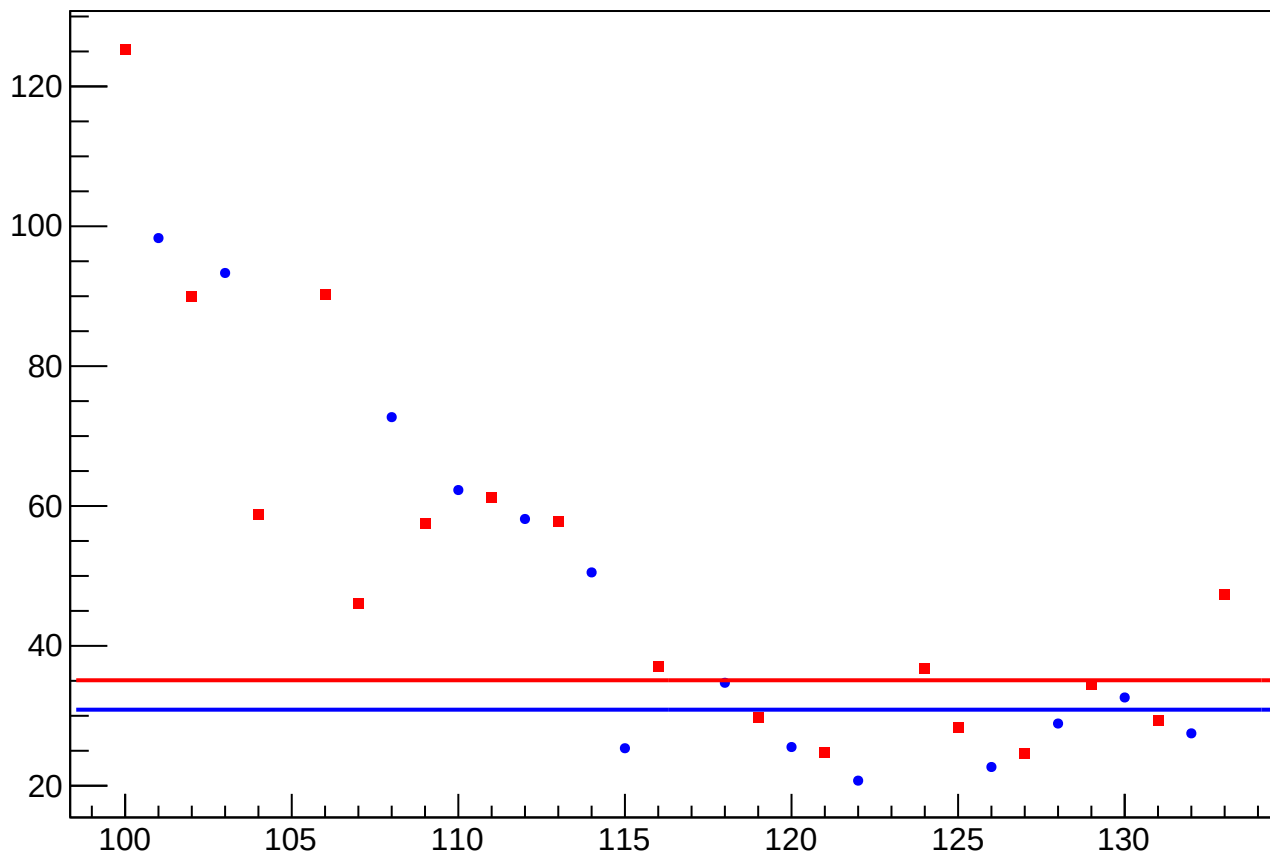
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.019 $\pm$ 0.010  $\chi^2$ /NDF: 34.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_26\_48\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 30.875+/-0.010  $\chi^2/\text{NDF}$ : 2204347.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.082+/-0.011  $\chi^2/\text{NDF}$ : 1835597.7/16

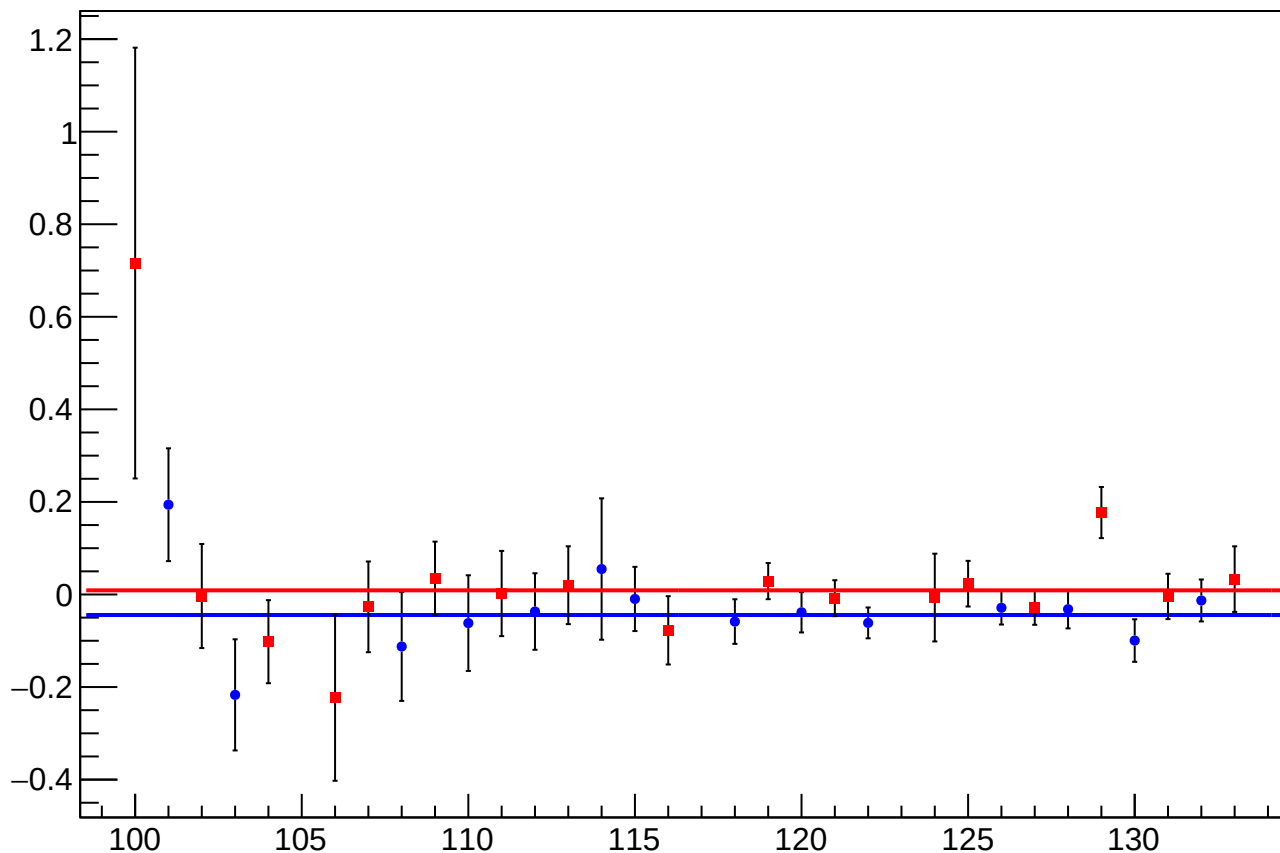
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.886+/-0.007  $\chi^2/\text{NDF}$ : 4122230.3/30

- 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: -0.044 $\pm$ 0.014  $\chi^2$ /NDF: 9.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.009 $\pm$ 0.015  $\chi^2$ /NDF: 18.2/16

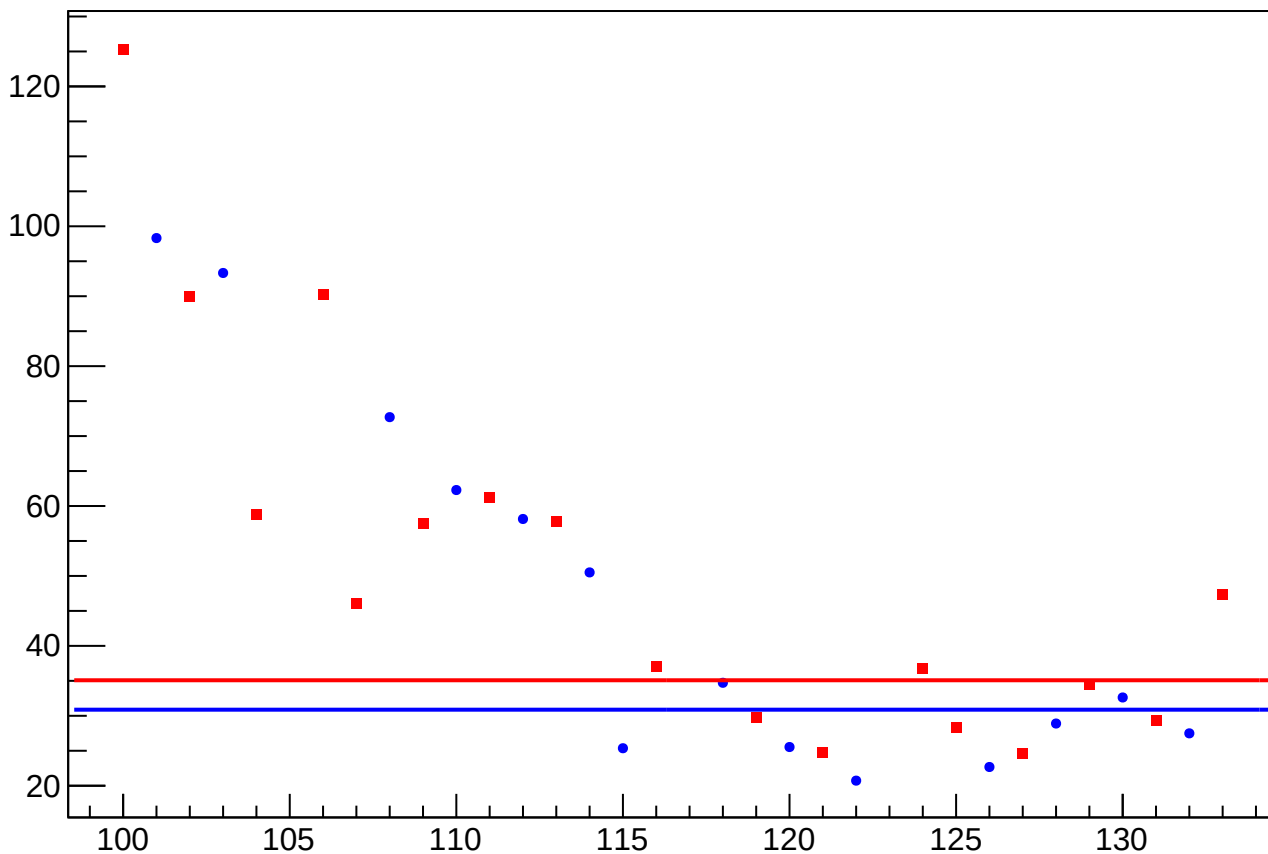
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.019 $\pm$ 0.010  $\chi^2$ /NDF: 34.3/30

- 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: 30.875+/-0.010  $\chi^2/\text{NDF}$ : 2204347.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.082+/-0.011  $\chi^2/\text{NDF}$ : 1835597.7/16

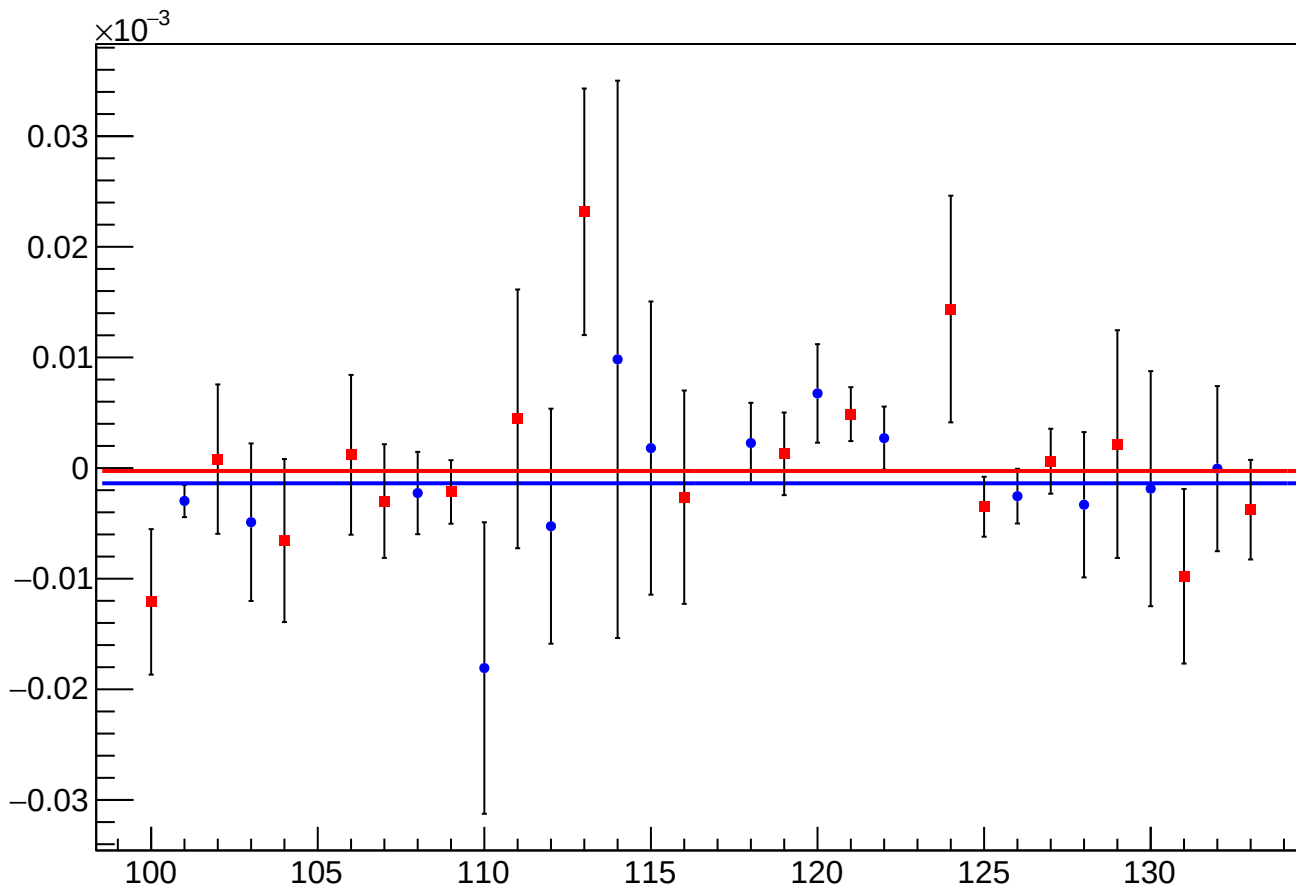
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.886+/-0.007  $\chi^2/\text{NDF}$ : 4122230.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 10.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 19.7/16

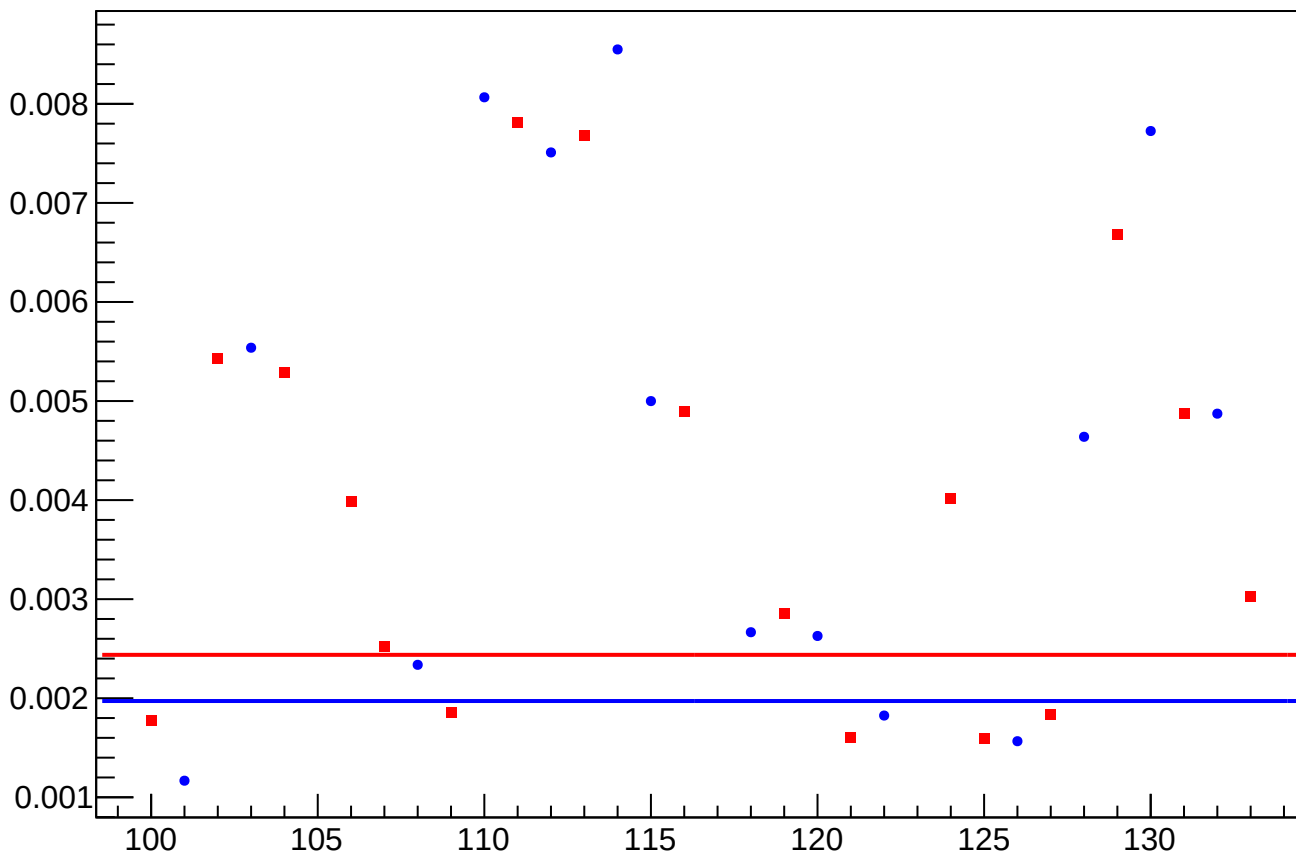
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 30.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3730468.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3034064.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

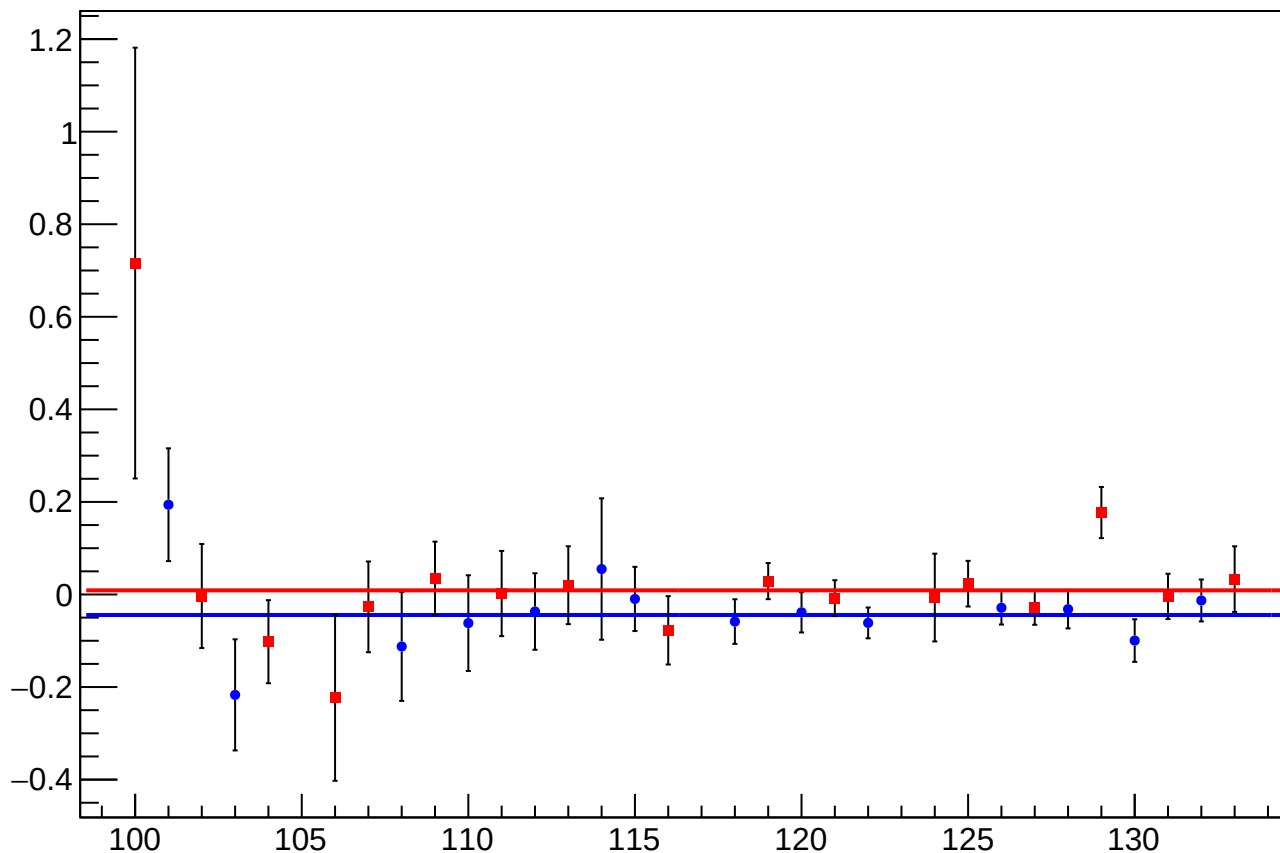
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 6967280.2/30

- 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:  $-0.044 \pm 0.014$   $\chi^2/\text{NDF}$ : 9.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.009 \pm 0.015$   $\chi^2/\text{NDF}$ : 18.2/16

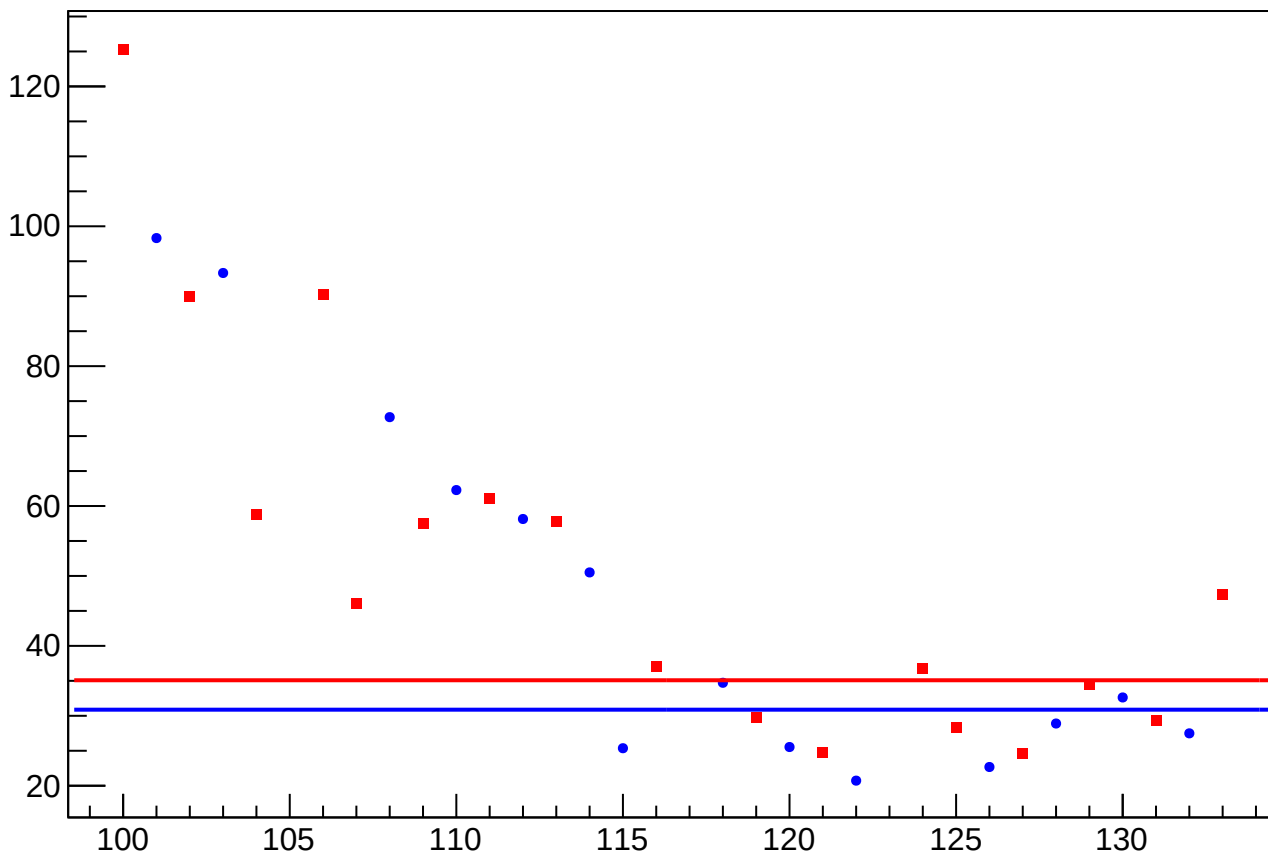
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.019 \pm 0.010$   $\chi^2/\text{NDF}$ : 34.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 30.875+/-0.010  $\chi^2/\text{NDF}$ : 2204323.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.083+/-0.011  $\chi^2/\text{NDF}$ : 1835490.2/16

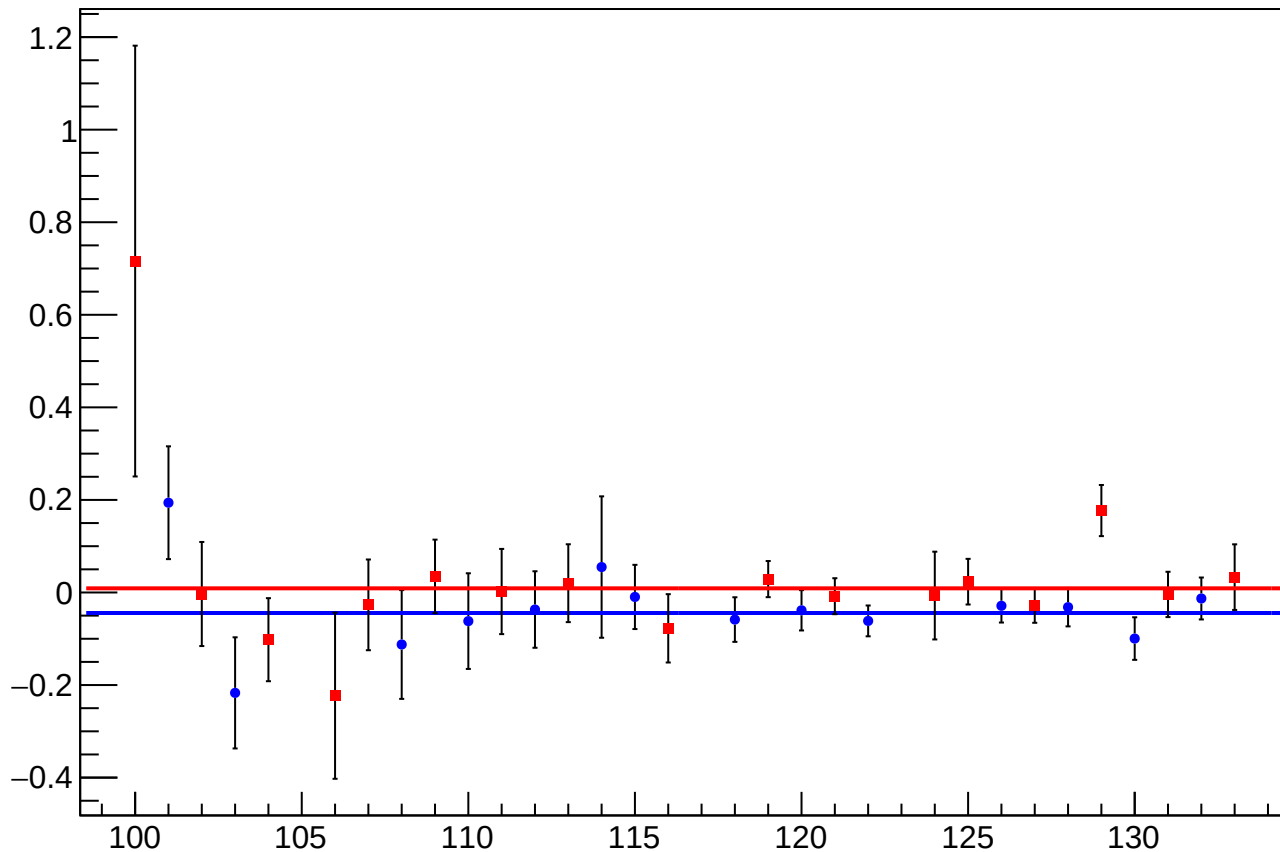
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.886+/-0.007  $\chi^2/\text{NDF}$ : 4122104.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.044 $\pm$ 0.014  $\chi^2$ /NDF: 9.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009 $\pm$ 0.015  $\chi^2$ /NDF: 18.2/16

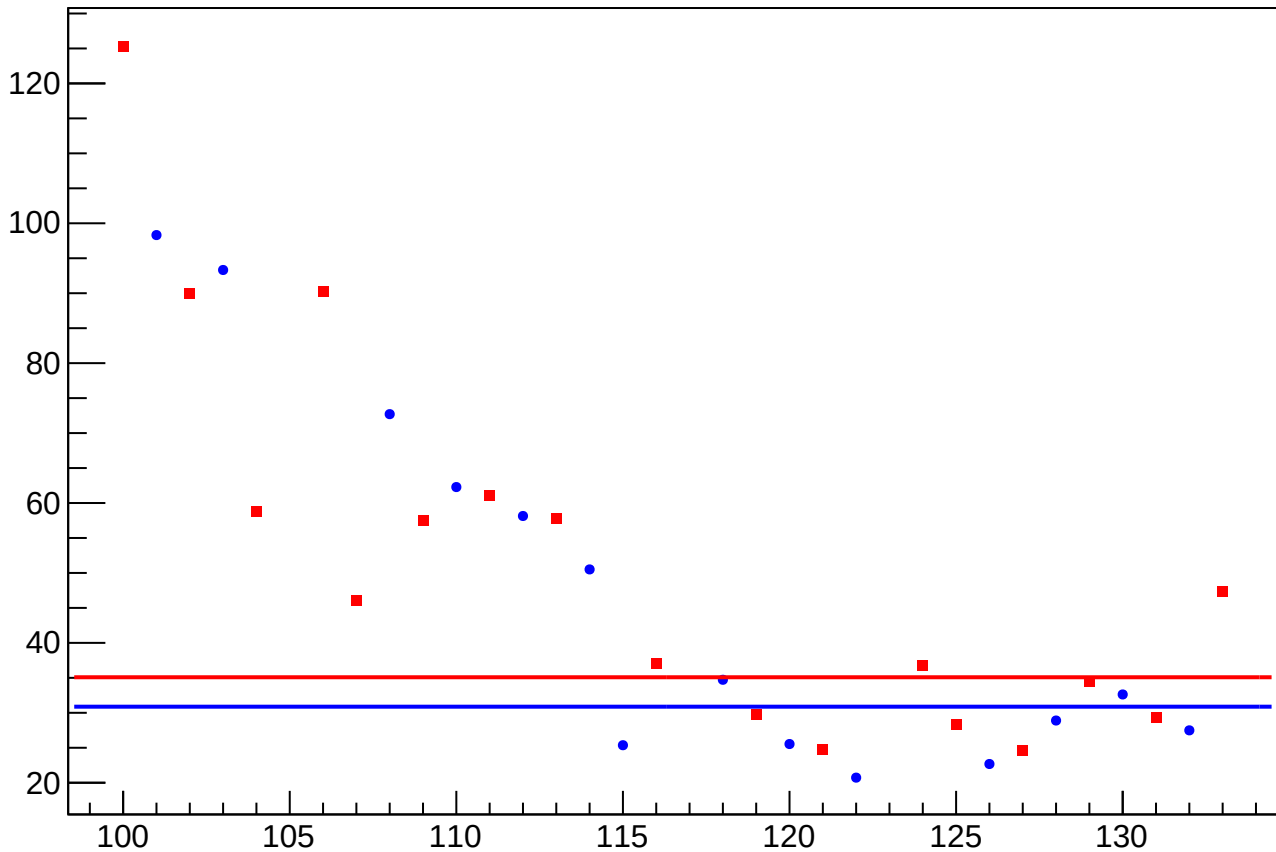
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.019 $\pm$ 0.010  $\chi^2$ /NDF: 34.3/30

- 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: 30.875+/-0.010  $\chi^2/\text{NDF}$ : 2204323.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.083+/-0.011  $\chi^2/\text{NDF}$ : 1835490.2/16

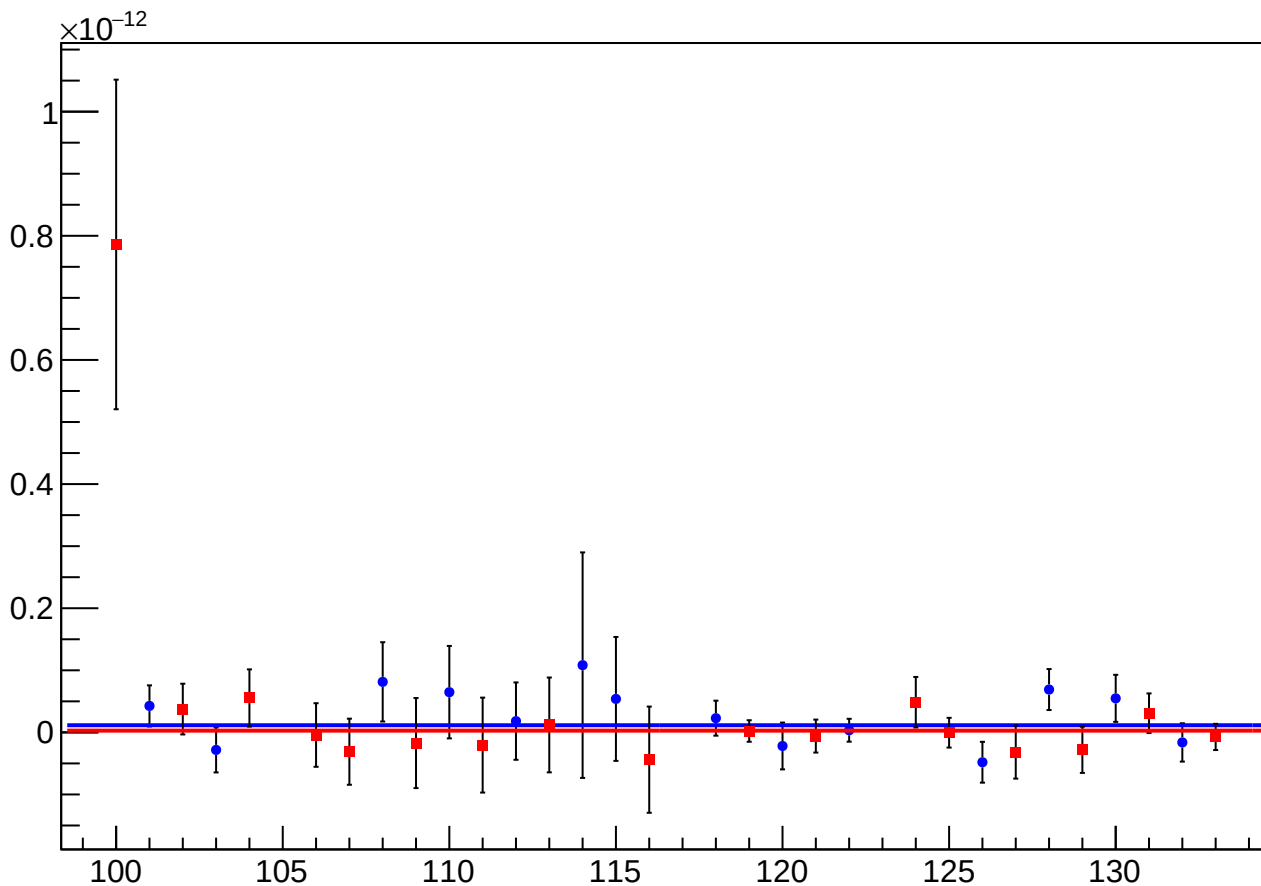
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.886+/-0.007  $\chi^2/\text{NDF}$ : 4122104.9/30

- 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+/-0.000  $\chi^2/\text{NDF}$ : 13.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.4/16

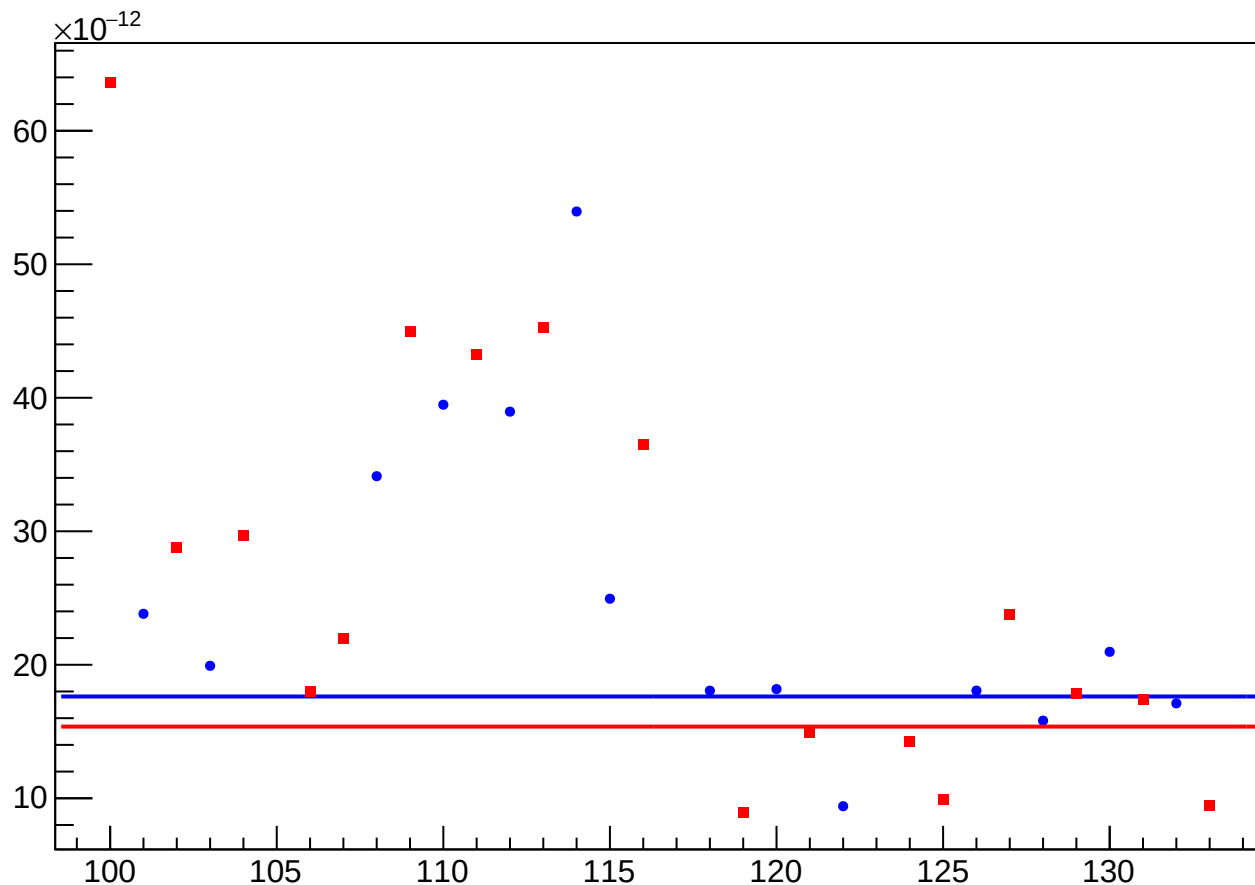
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 29.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_26\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1130078.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2171041.6/16

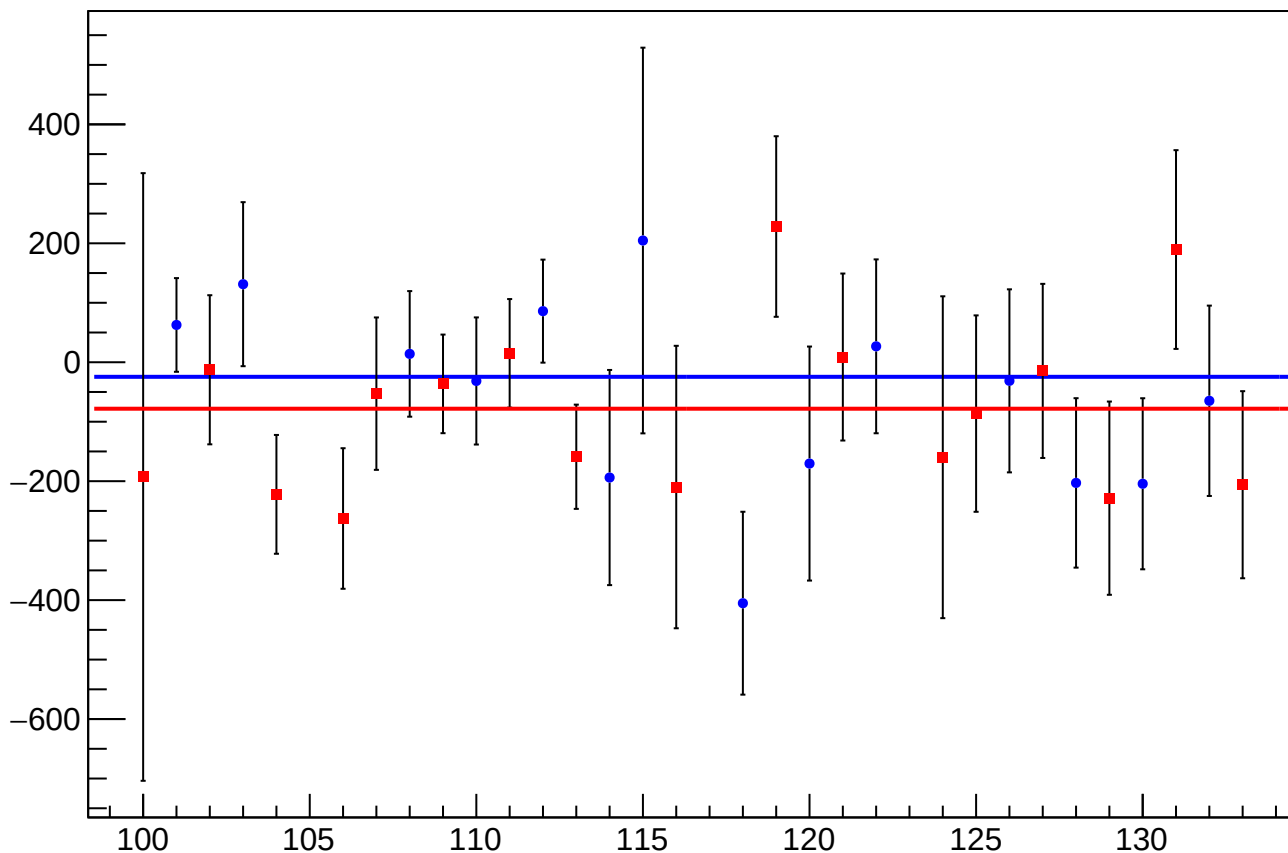
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3363844.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1548\_avg\_mean vs Slug



Right In:  $-24.499 \pm 34.137$   $\chi^2/\text{NDF}$ : 15.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-78.140 \pm 31.330$   $\chi^2/\text{NDF}$ : 16.2/16

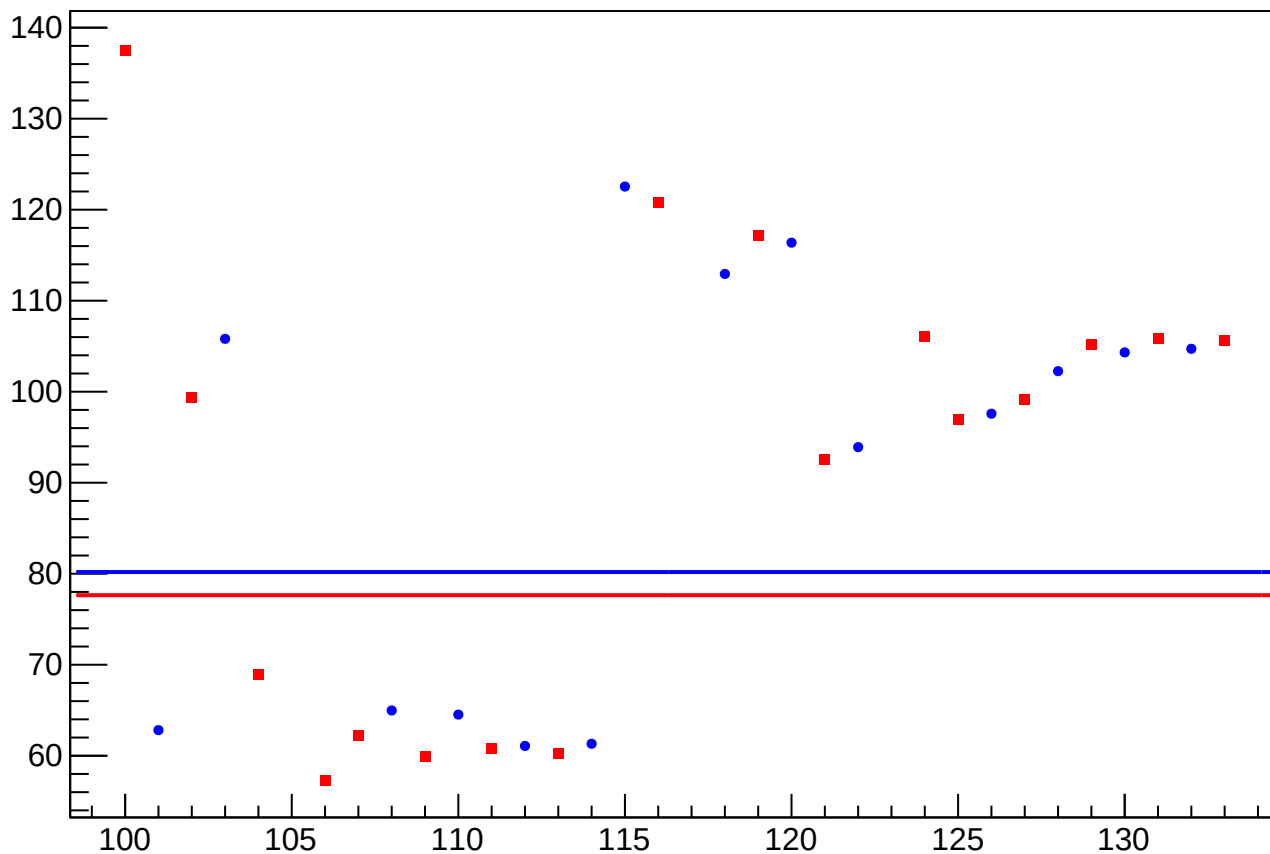
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-53.615 \pm 23.082$   $\chi^2/\text{NDF}$ : 33.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 80.186 $\pm$ 0.024  $\chi^2$ /NDF: 756917.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 77.639 $\pm$ 0.022  $\chi^2$ /NDF: 923059.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

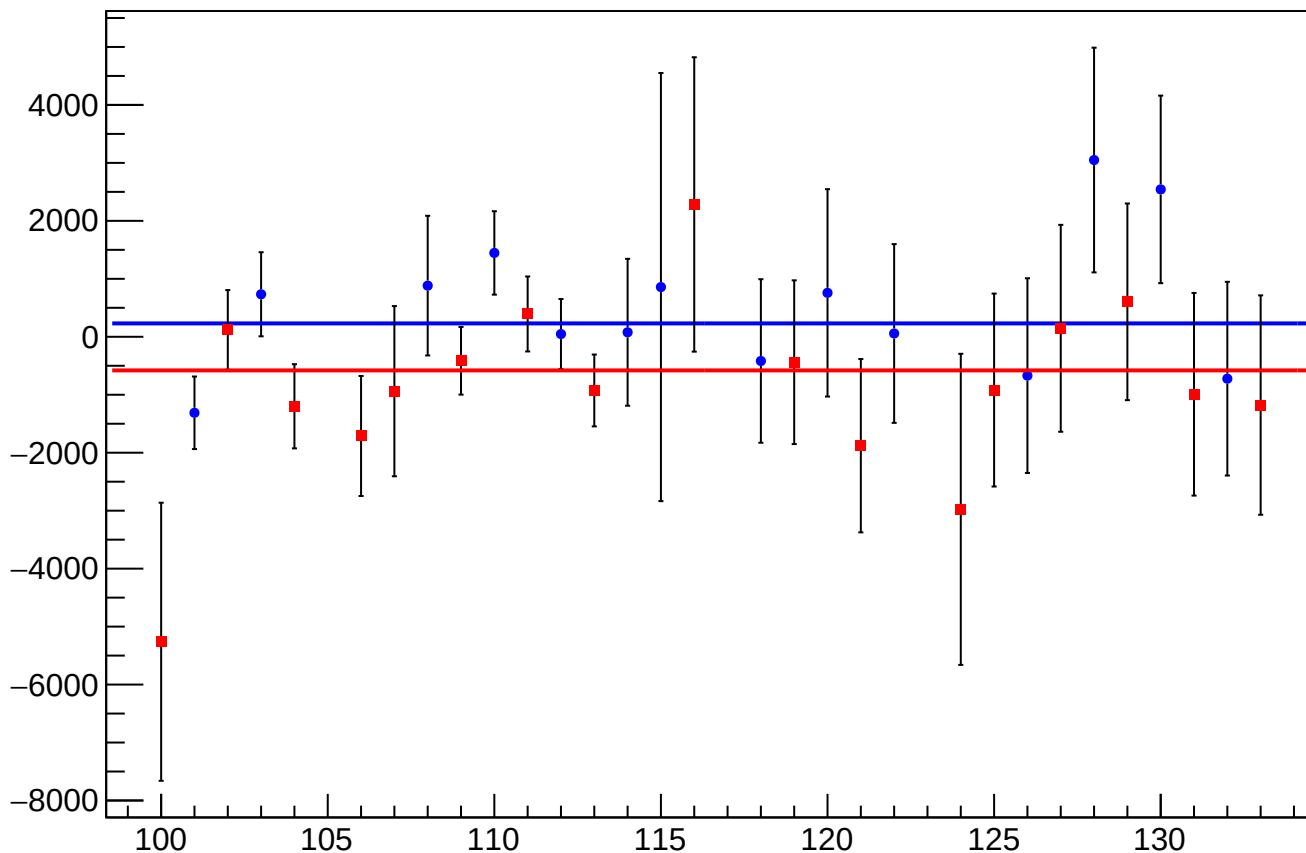
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 78.804 $\pm$ 0.016  $\chi^2$ /NDF: 1686017.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1548\_avg\_reg\_correction\_mean vs Slug



Right In: 230.809+/-276.217  $\chi^2/\text{NDF}$ : 14.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -579.989+/-247.056  $\chi^2/\text{NDF}$ : 13.2/16

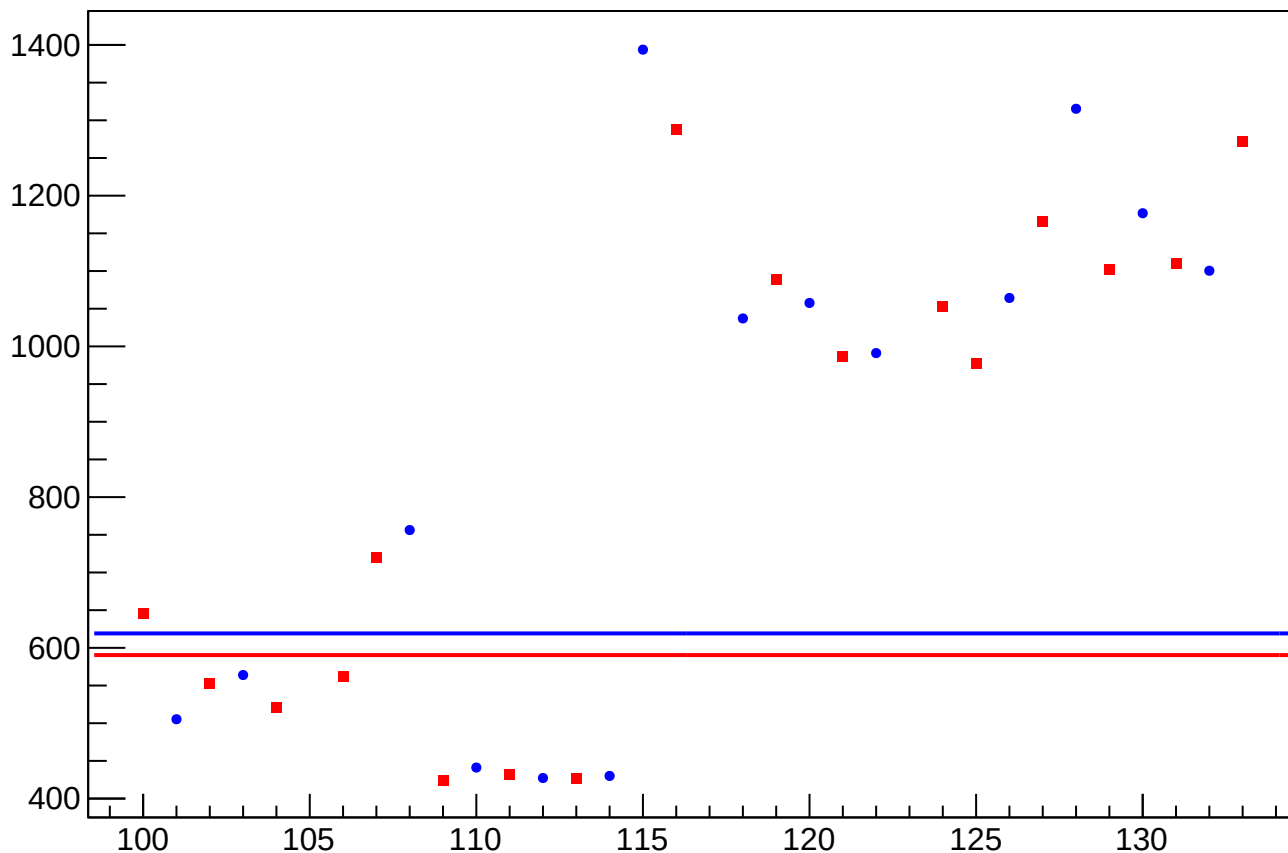
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -219.635+/-184.145  $\chi^2/\text{NDF}$ : 32.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_reg\_correction\_rms vs Slug



Right In: 619.150+/-0.195  $\chi^2/\text{NDF}$ : 1774376.8/13

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

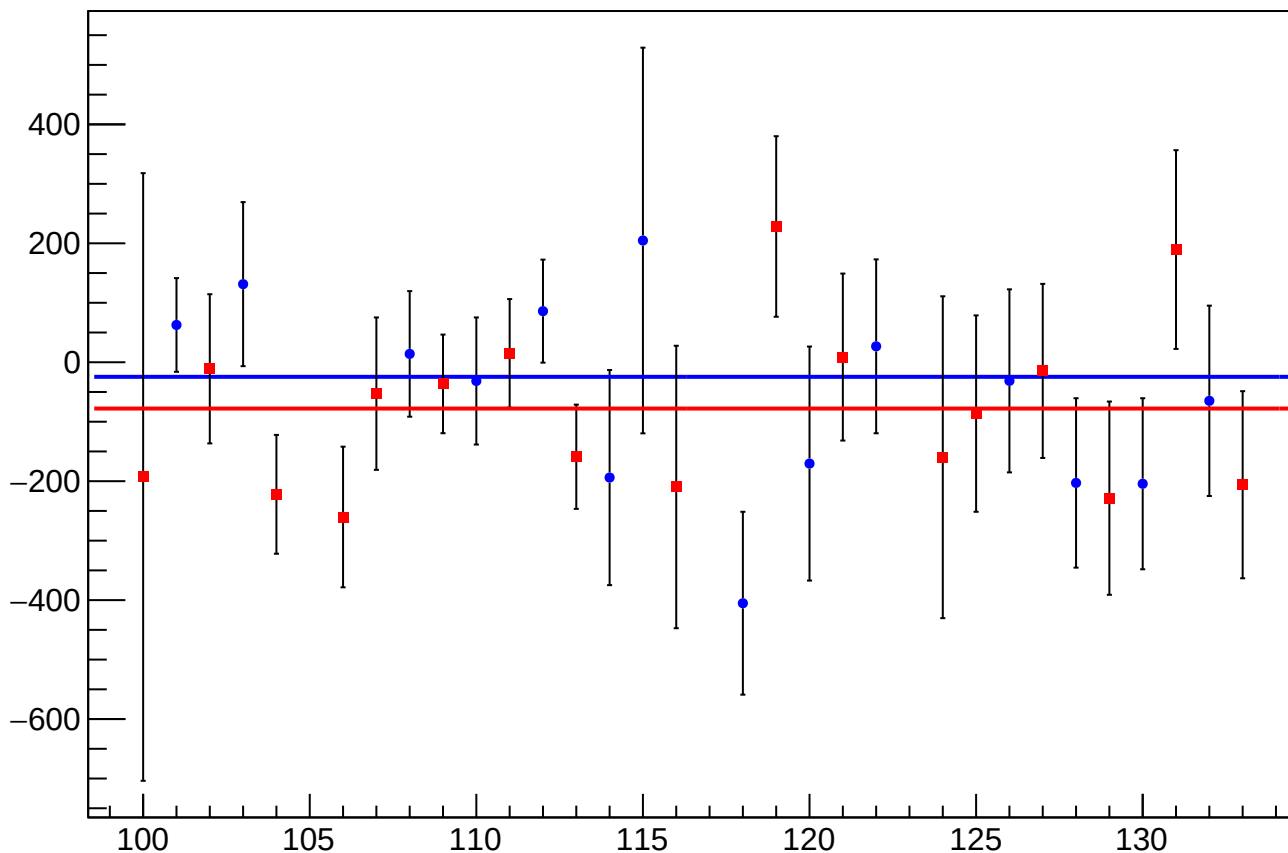
Right Out: 590.413+/-0.175  $\chi^2/\text{NDF}$ : 1997896.9/16

All: 603.185+/-0.130  $\chi^2/\text{NDF}$ : 3784299.8/30

- 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\_sam\_1548\_avg\_mean vs Slug



Right In:  $-24.506 \pm 34.137$   $\chi^2/\text{NDF}$ : 15.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-77.849 \pm 31.332$   $\chi^2/\text{NDF}$ : 16.1/16

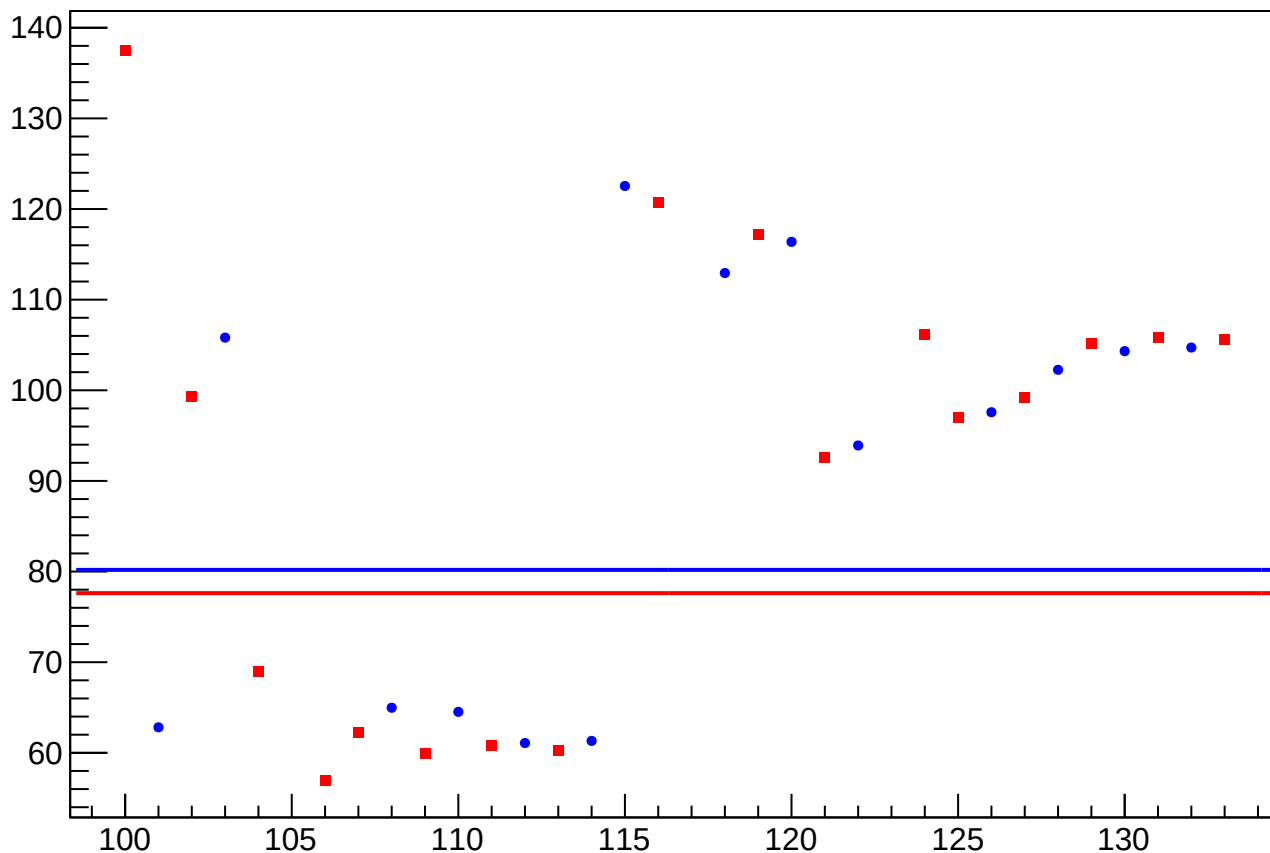
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-53.458 \pm 23.083$   $\chi^2/\text{NDF}$ : 33.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 80.186+/-0.024  $\chi^2/\text{NDF}$ : 756919.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 77.619+/-0.022  $\chi^2/\text{NDF}$ : 925143.2/16

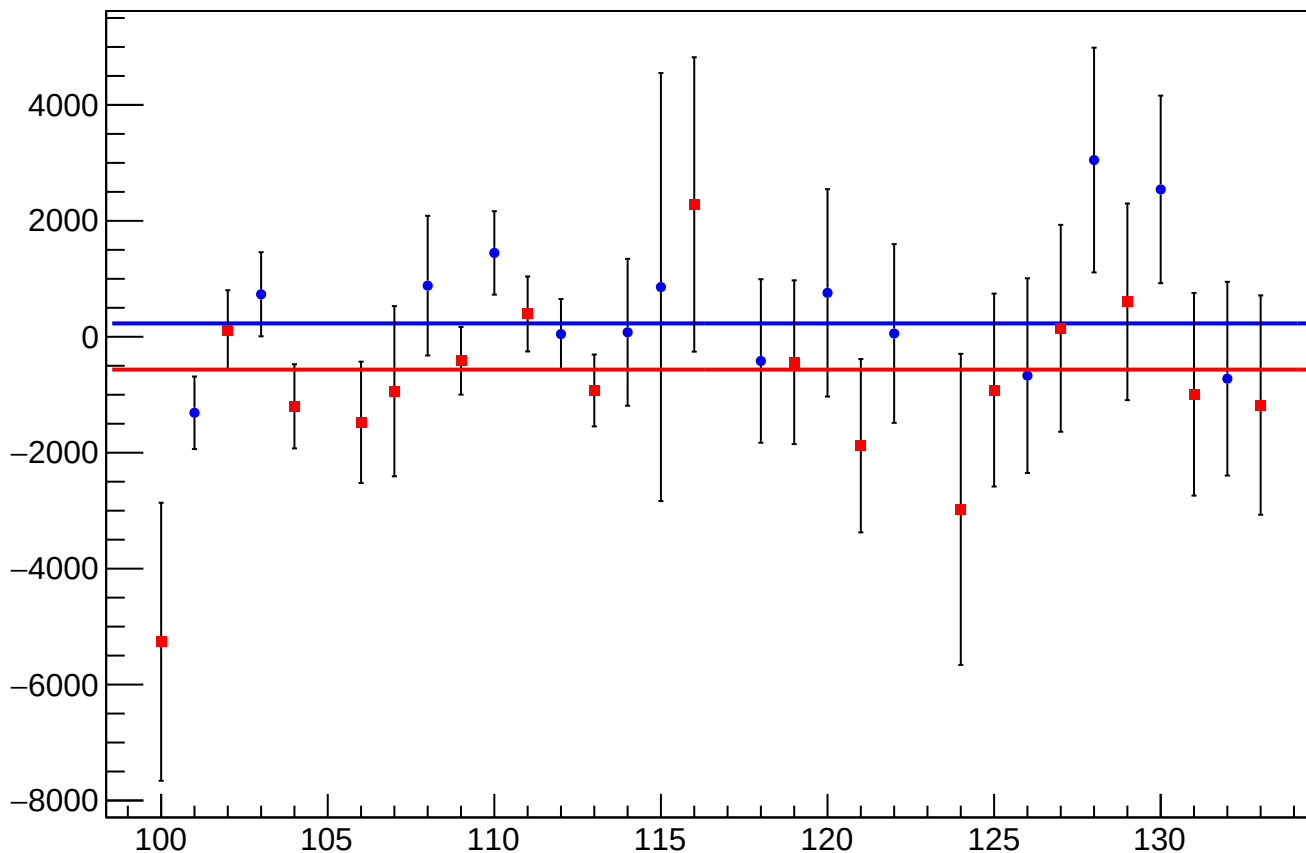
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 78.793+/-0.016  $\chi^2/\text{NDF}$ : 1688200.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_cor\_correction\_mean vs Slug



Right In: 230.783 $\pm$ 276.221  $\chi^2$ /NDF: 14.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -566.119 $\pm$ 247.220  $\chi^2$ /NDF: 12.7/16

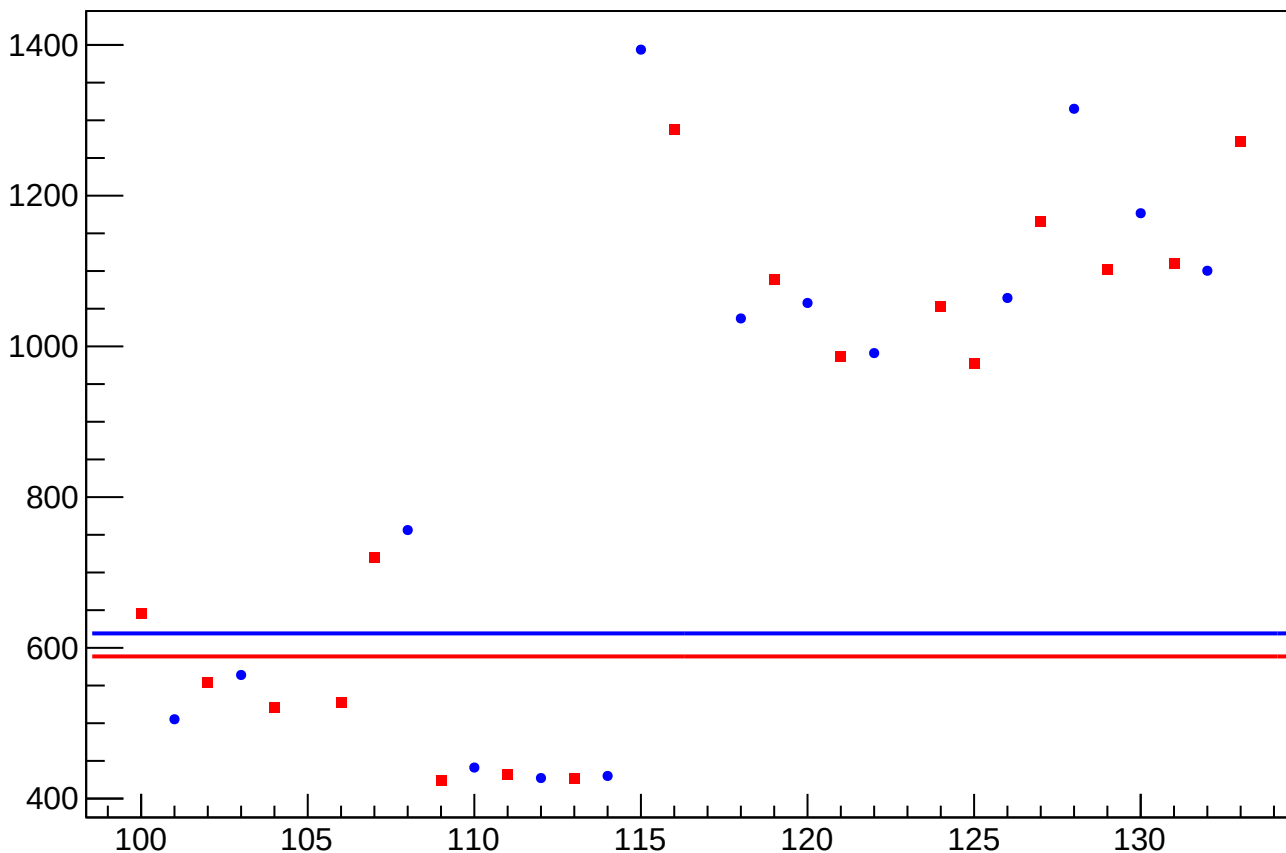
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -211.685 $\pm$ 184.214  $\chi^2$ /NDF: 32.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_cor\_correction\_rms vs Slug



Right In: 619.160+/-0.195  $\chi^2/\text{NDF}$ : 1774348.7/13

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

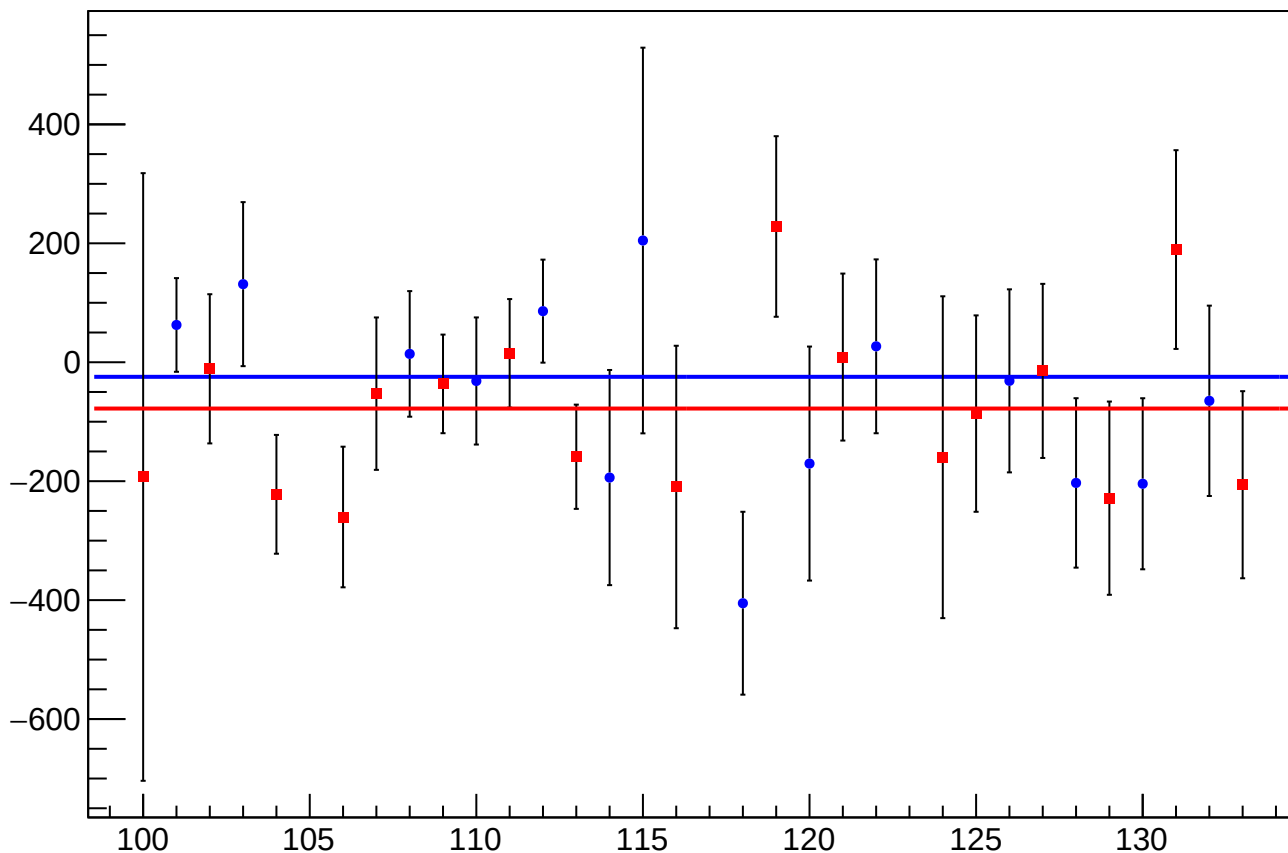
Right Out: 588.596+/-0.175  $\chi^2/\text{NDF}$ : 2003362.3/16

All: 602.190+/-0.130  $\chi^2/\text{NDF}$ : 3791306.8/30

- 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\_sam\_1548\_avg\_mean vs Slug



Right In:  $-24.506 \pm 34.137$   $\chi^2/\text{NDF}$ : 15.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-77.849 \pm 31.332$   $\chi^2/\text{NDF}$ : 16.1/16

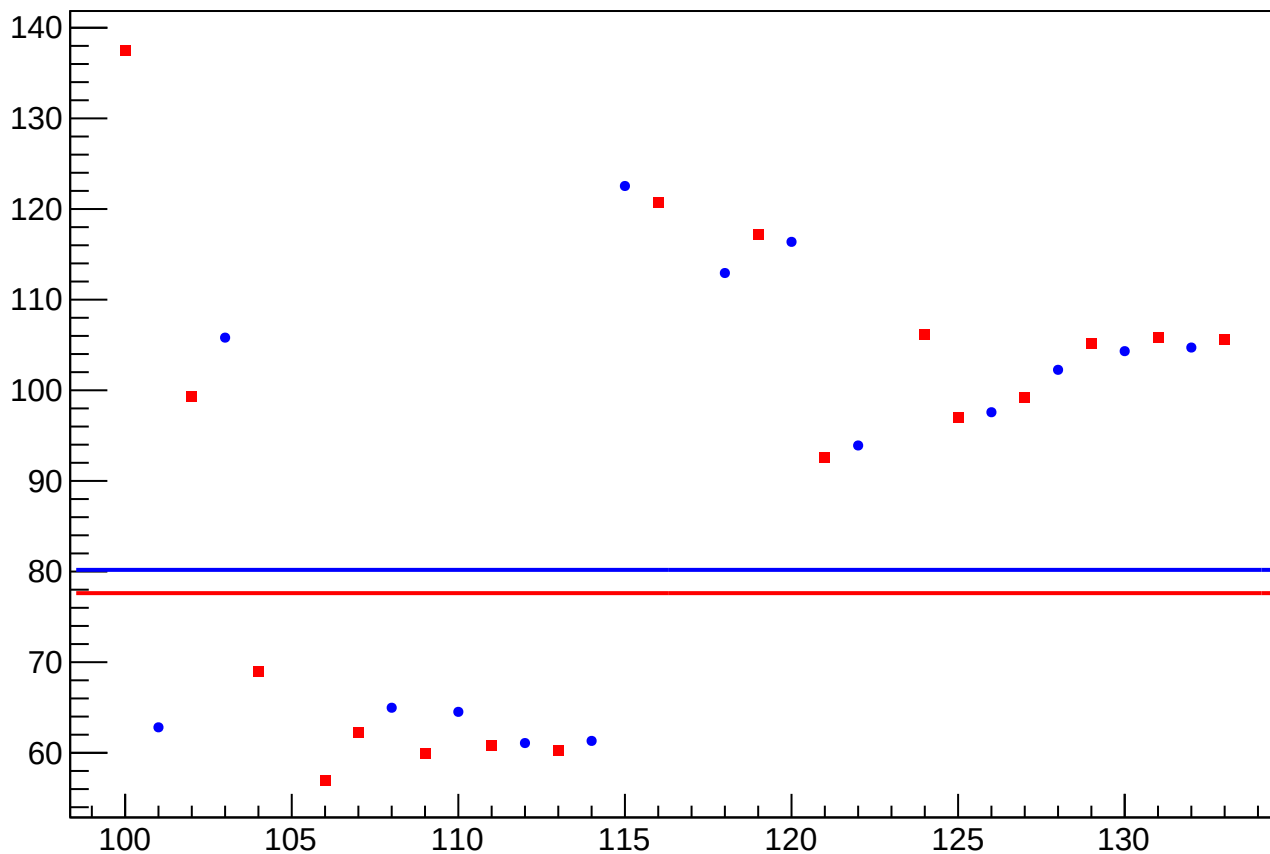
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-53.458 \pm 23.083$   $\chi^2/\text{NDF}$ : 33.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 80.186 $\pm$ 0.024  $\chi^2$ /NDF: 756919.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 77.619 $\pm$ 0.022  $\chi^2$ /NDF: 925143.2/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

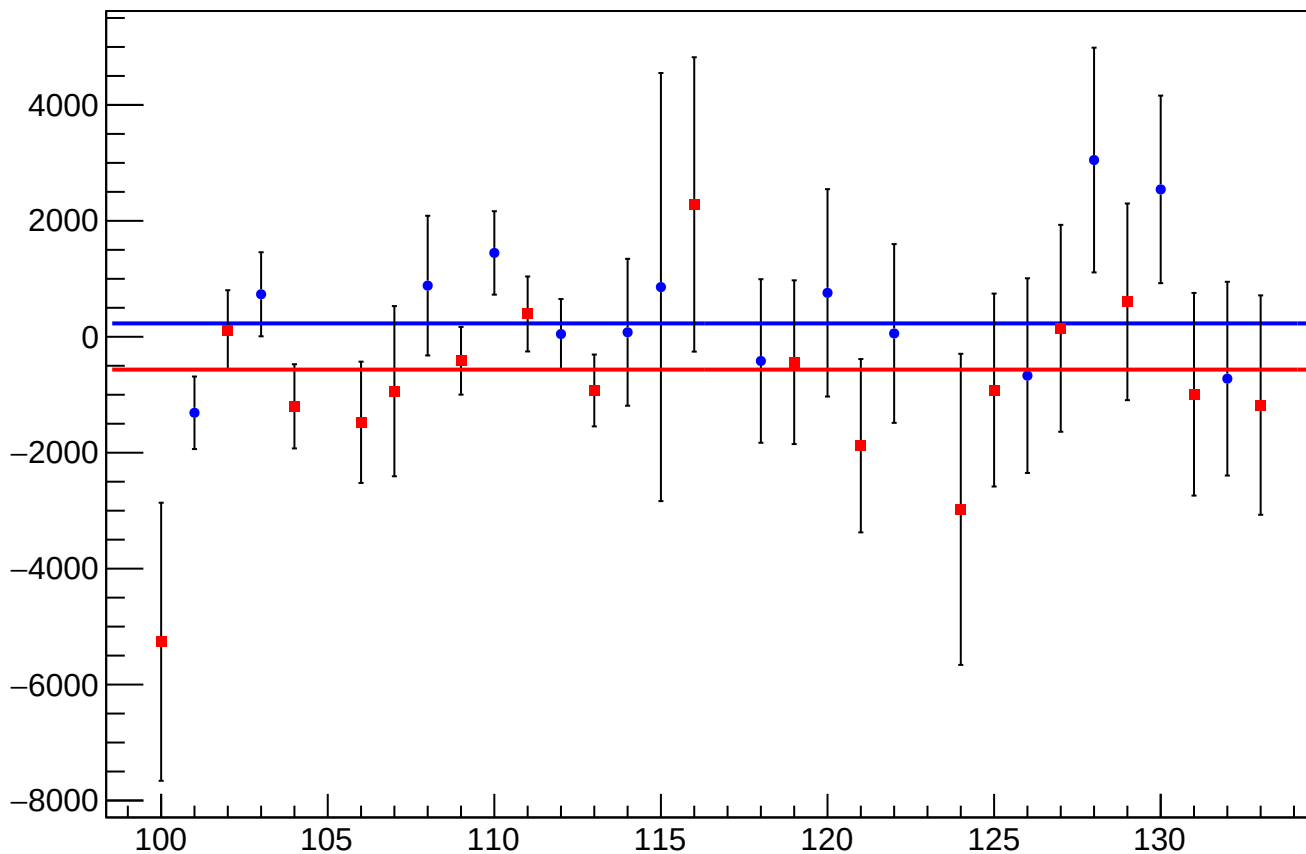
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 78.793 $\pm$ 0.016  $\chi^2$ /NDF: 1688200.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1548\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 230.783 $\pm$ 276.221  $\chi^2$ /NDF: 14.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -566.119 $\pm$ 247.220  $\chi^2$ /NDF: 12.7/16

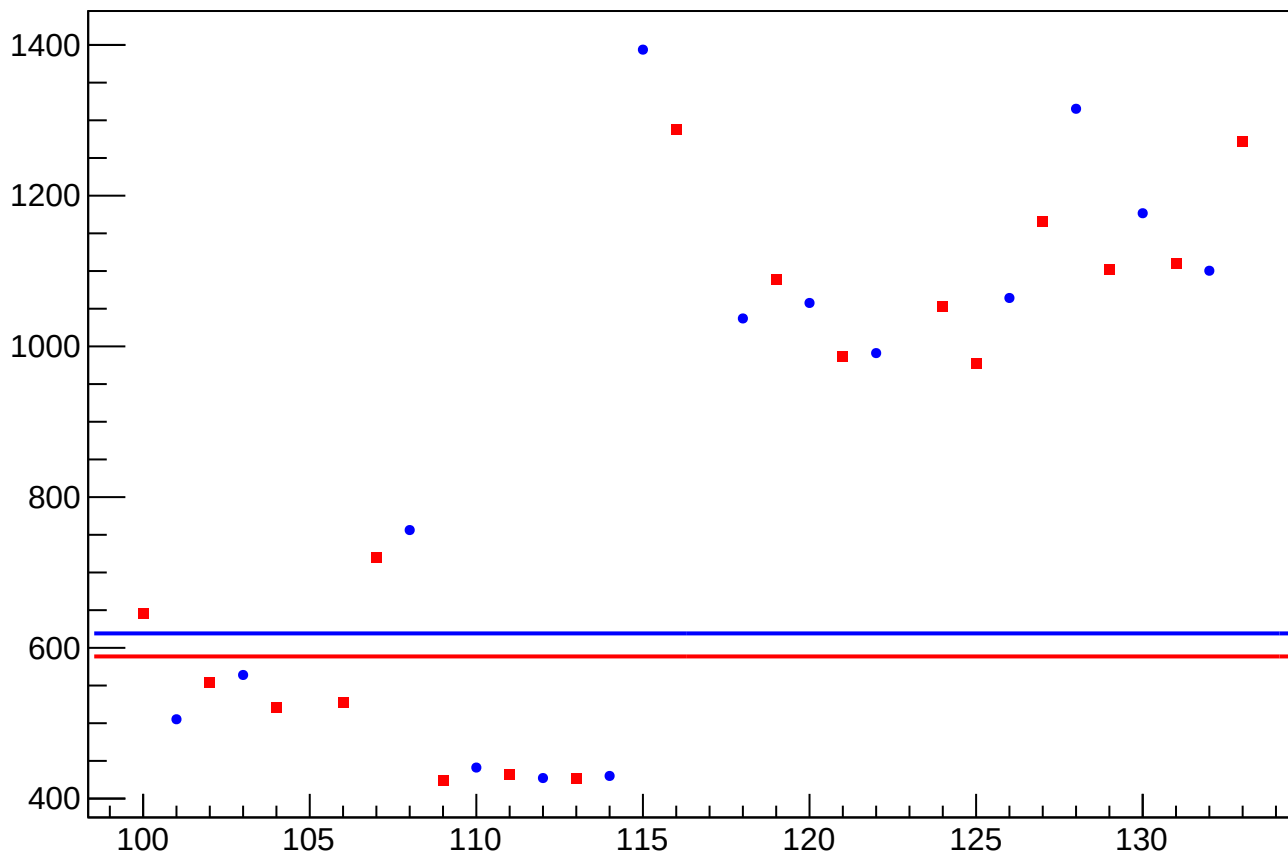
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -211.685 $\pm$ 184.214  $\chi^2$ /NDF: 32.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 619.160+/-0.195  $\chi^2/\text{NDF}$ : 1774348.7/13

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

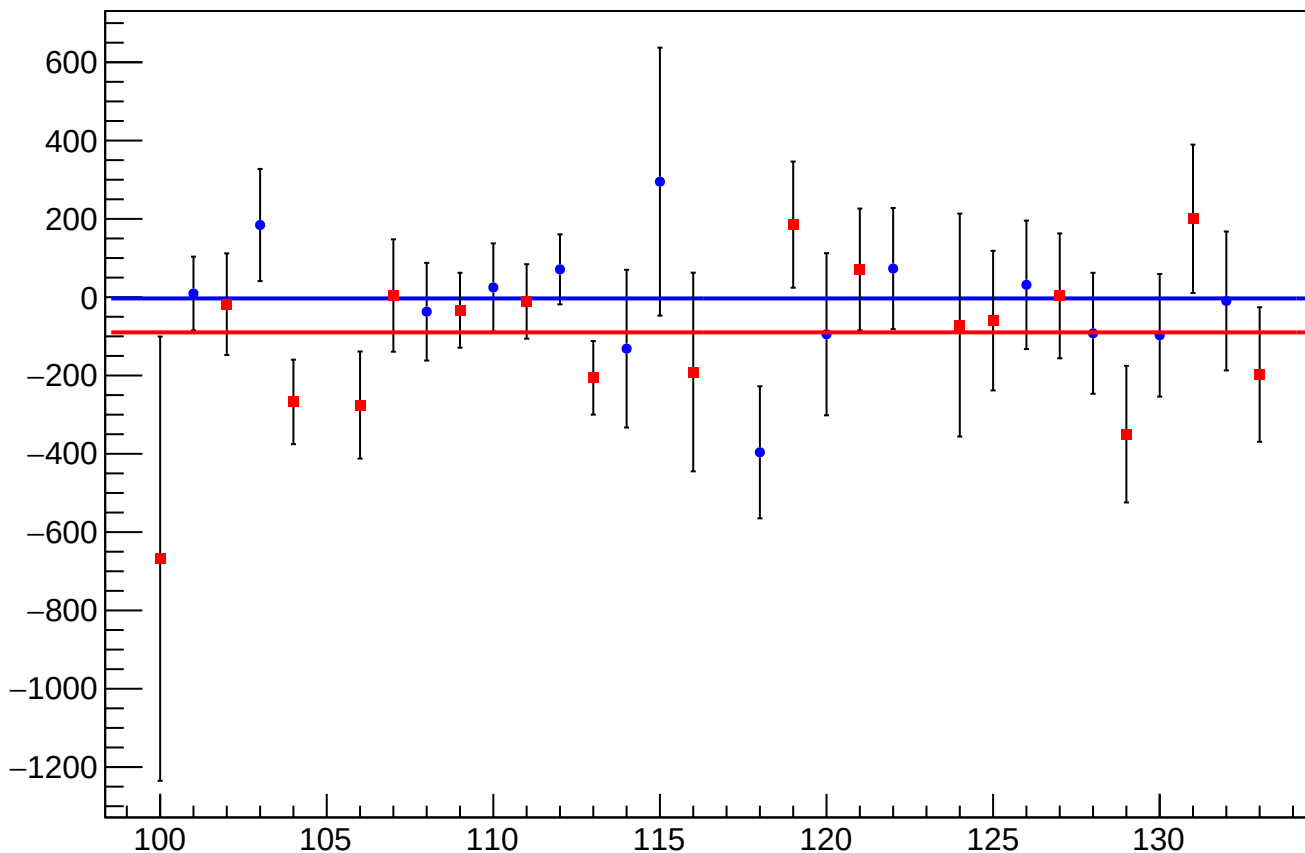
Right Out: 588.596+/-0.175  $\chi^2/\text{NDF}$ : 2003362.3/16

All: 602.190+/-0.130  $\chi^2/\text{NDF}$ : 3791306.8/30

- 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\_sam\_1548\_avg\_mean vs Slug



Right In: -3.121+/-37.395  $\chi^2/\text{NDF}$ : 10.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -89.836+/-34.165  $\chi^2/\text{NDF}$ : 18.4/16

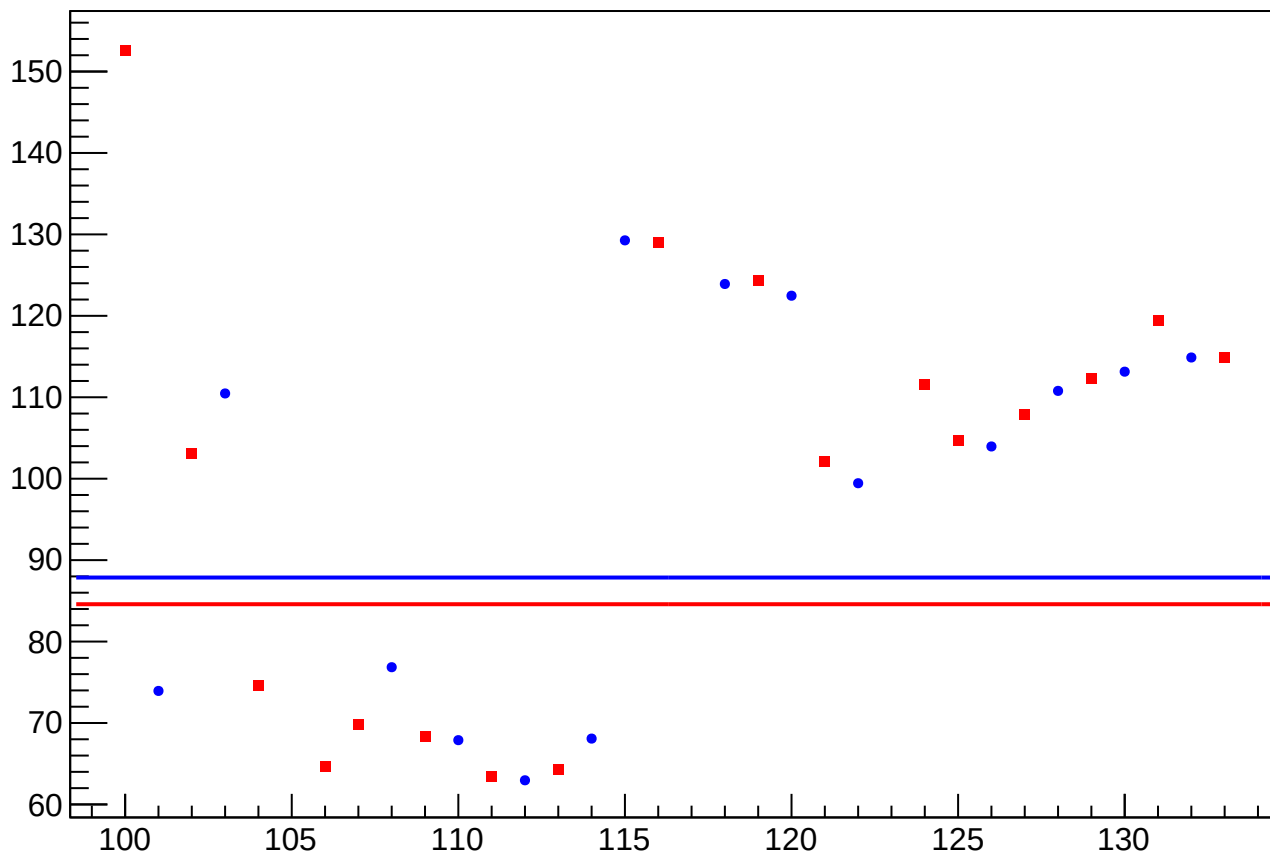
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -50.384+/-25.223  $\chi^2/\text{NDF}$ : 31.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 87.863 $\pm$ 0.026  $\chi^2$ /NDF: 696197.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 84.586 $\pm$ 0.024  $\chi^2$ /NDF: 874778.4/16

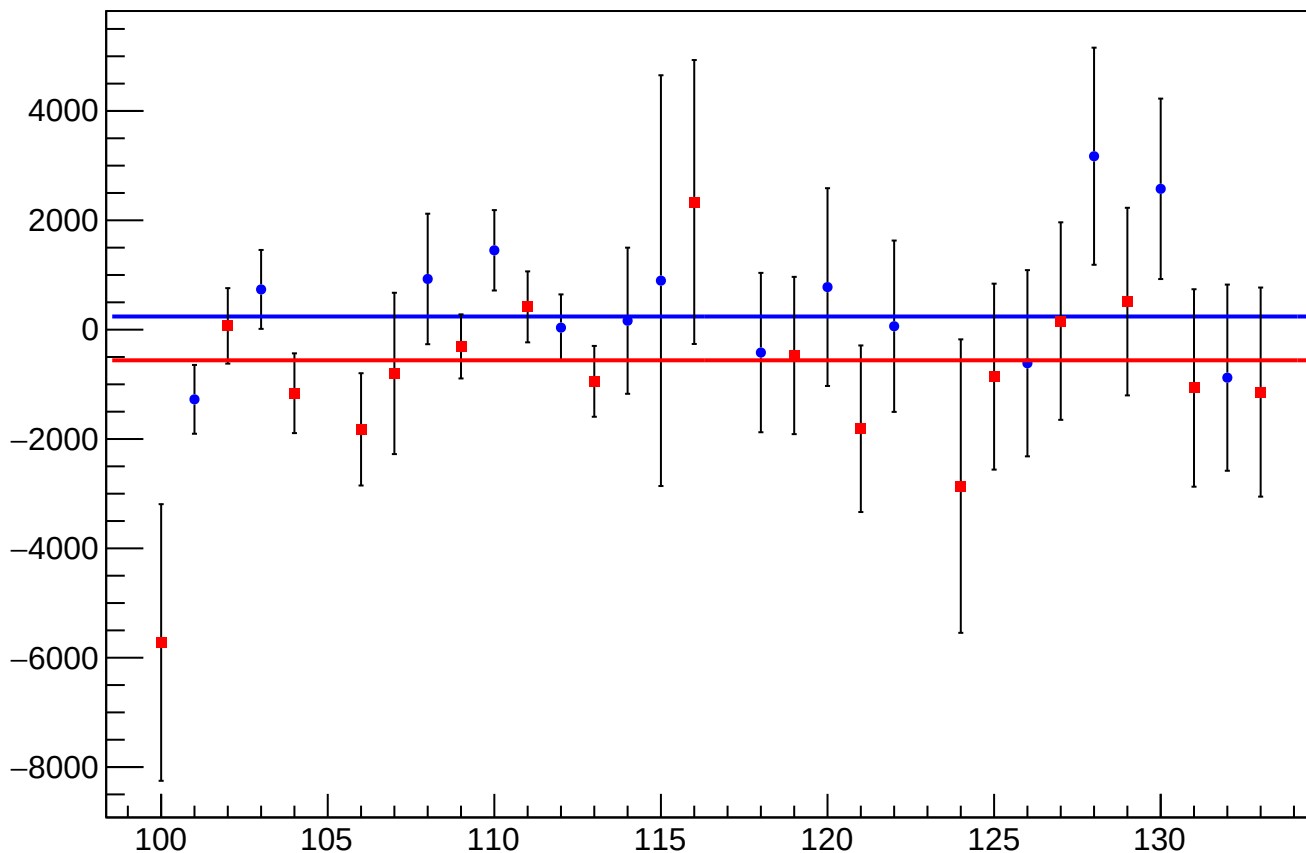
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 86.077 $\pm$ 0.018  $\chi^2$ /NDF: 1579347.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_dit\_correction\_mean vs Slug



Right In: 240.843 $\pm$ 279.178  $\chi^2$ /NDF: 14.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -560.509 $\pm$ 250.128  $\chi^2$ /NDF: 13.4/16

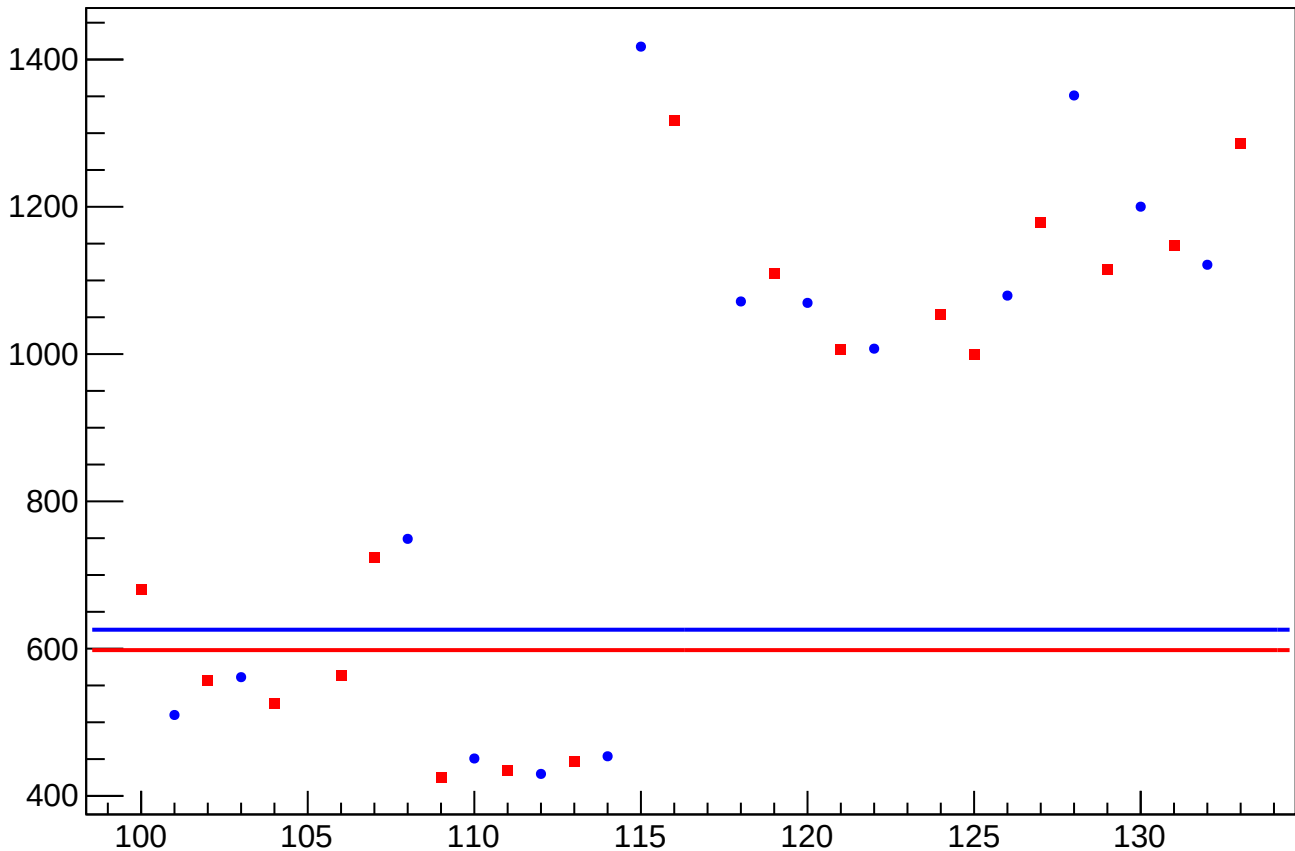
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -203.681 $\pm$ 186.294  $\chi^2$ /NDF: 32.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_dit\_correction\_rms vs Slug



Right In: 625.705+/-0.197  $\chi^2/\text{NDF}$ : 1794837.2/13

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

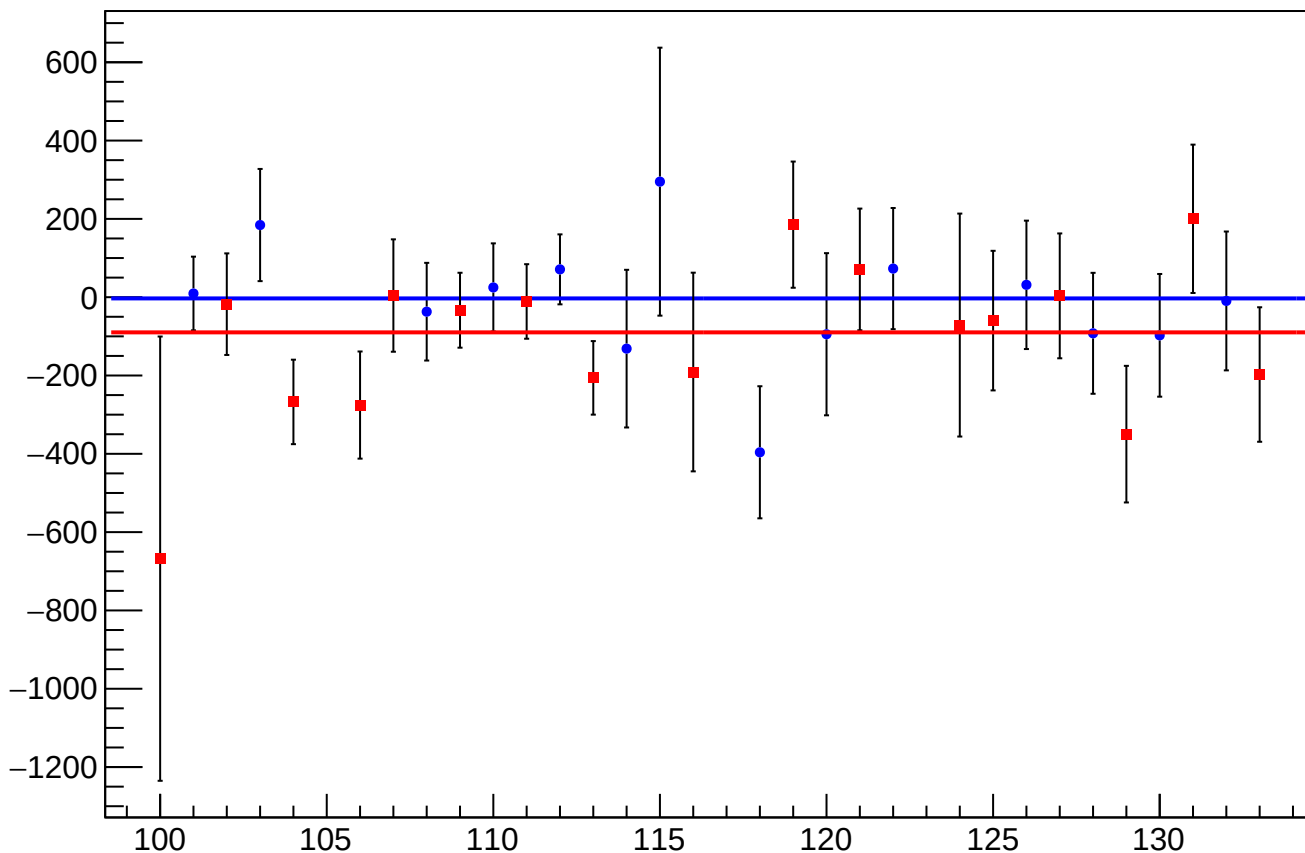
Right Out: 597.996+/-0.177  $\chi^2/\text{NDF}$ : 2007301.7/16

All: 610.334+/-0.132  $\chi^2/\text{NDF}$ : 3813068.4/30

- 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\_1548\_avg\_mean vs Slug



Right In: -3.121+/-37.395  $\chi^2/\text{NDF}$ : 10.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -89.835+/-34.165  $\chi^2/\text{NDF}$ : 18.4/16

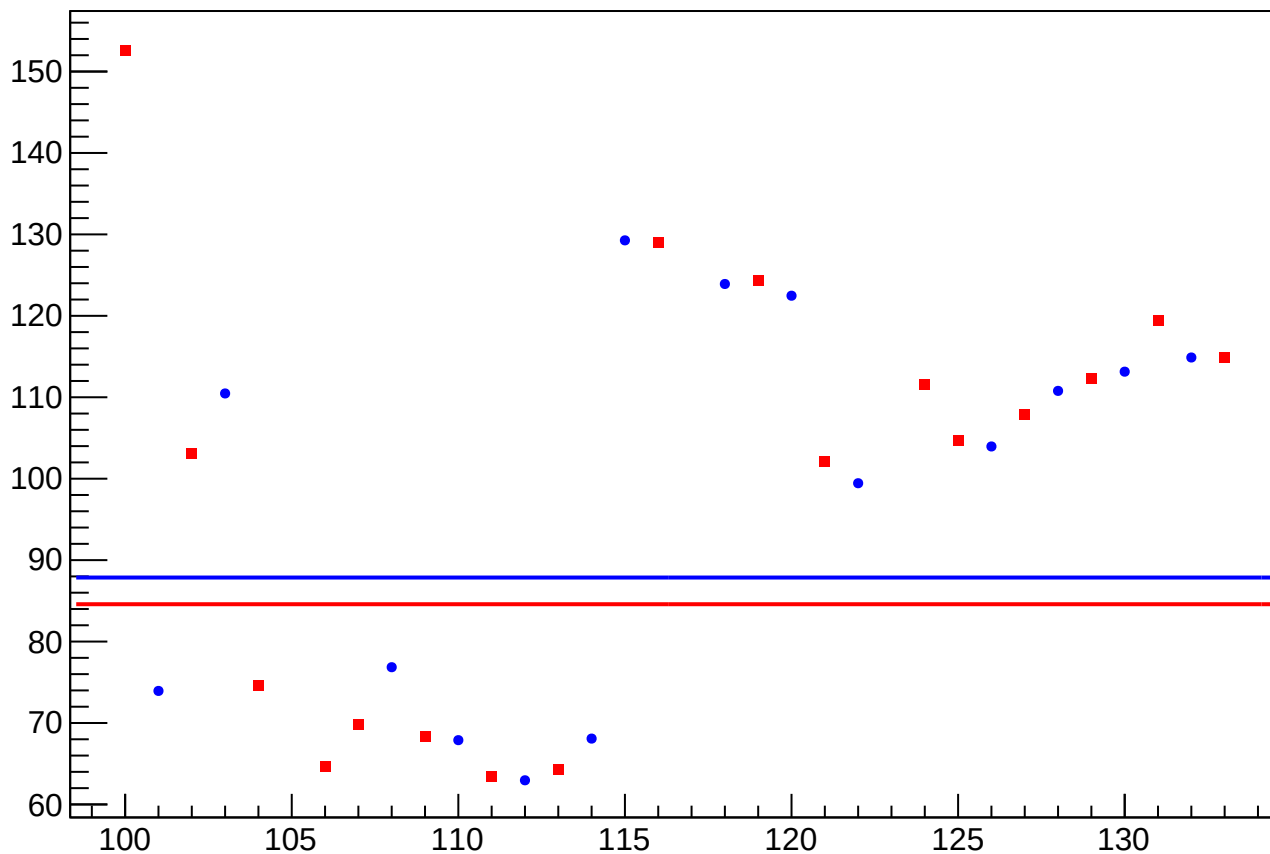
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -50.383+/-25.223  $\chi^2/\text{NDF}$ : 31.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 87.863+/-0.026  $\chi^2/\text{NDF}$ : 696198.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 84.586+/-0.024  $\chi^2/\text{NDF}$ : 874780.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

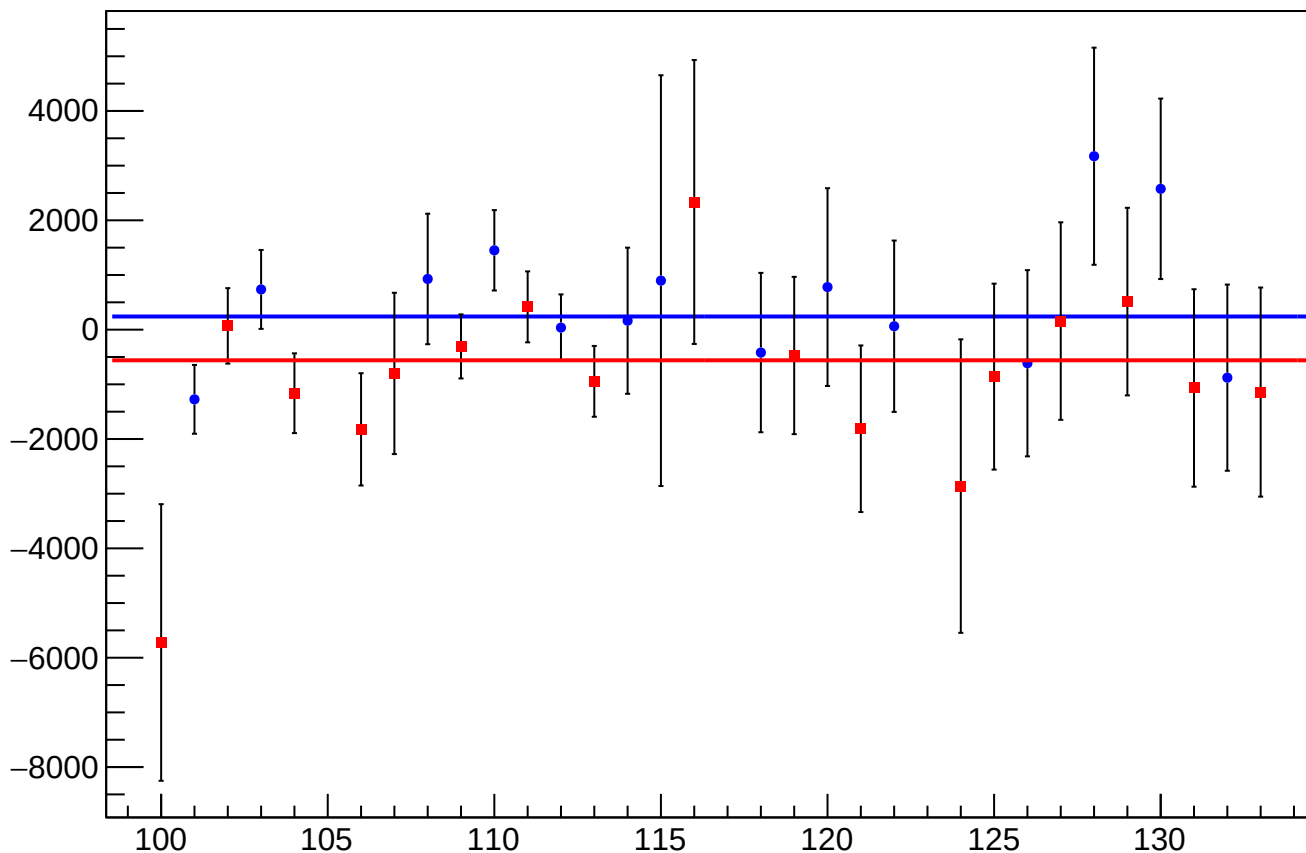
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 86.077+/-0.018  $\chi^2/\text{NDF}$ : 1579349.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1548\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 240.843 $\pm$ 279.178  $\chi^2$ /NDF: 14.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -560.508 $\pm$ 250.128  $\chi^2$ /NDF: 13.4/16

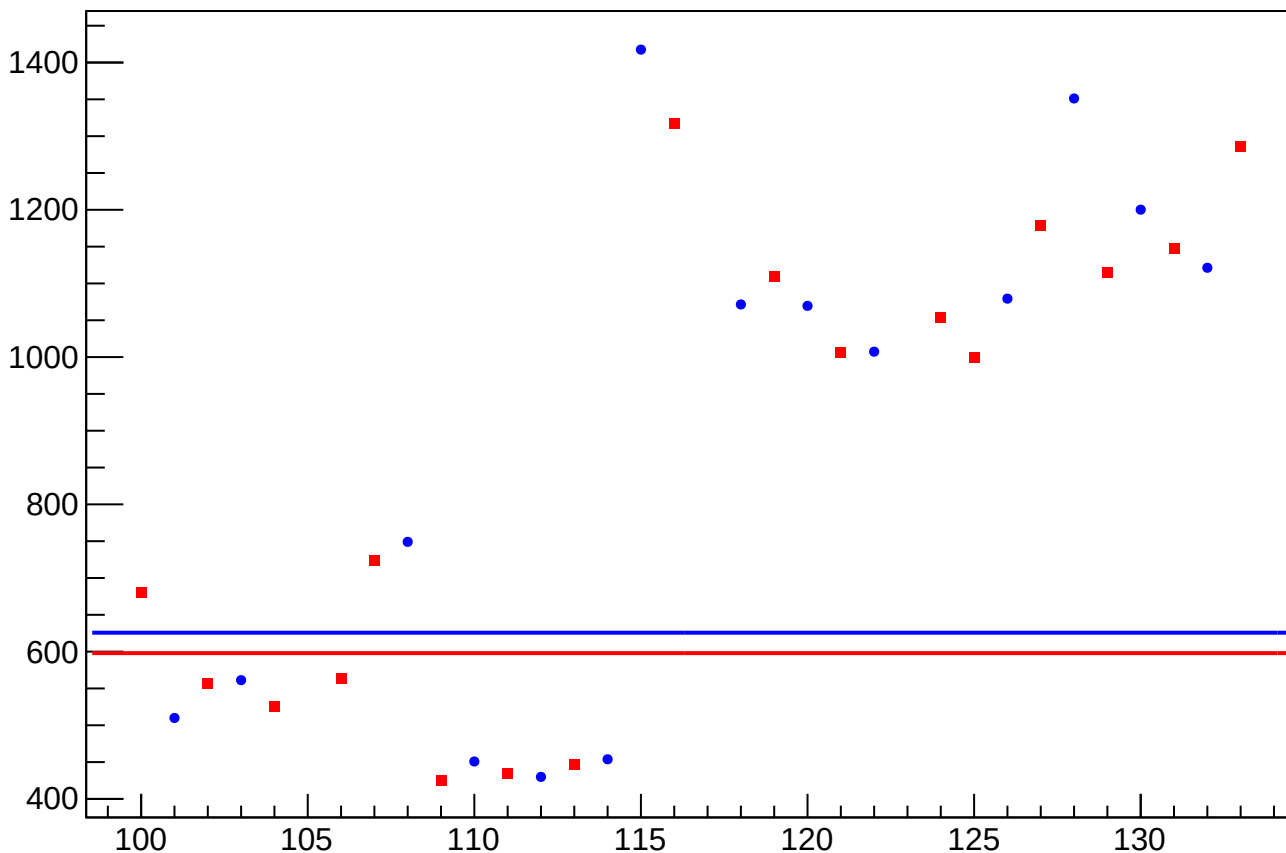
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -203.680 $\pm$ 186.294  $\chi^2$ /NDF: 32.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 625.705+/-0.197  $\chi^2/\text{NDF}$ : 1794842.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 597.995+/-0.177  $\chi^2/\text{NDF}$ : 2007305.3/16

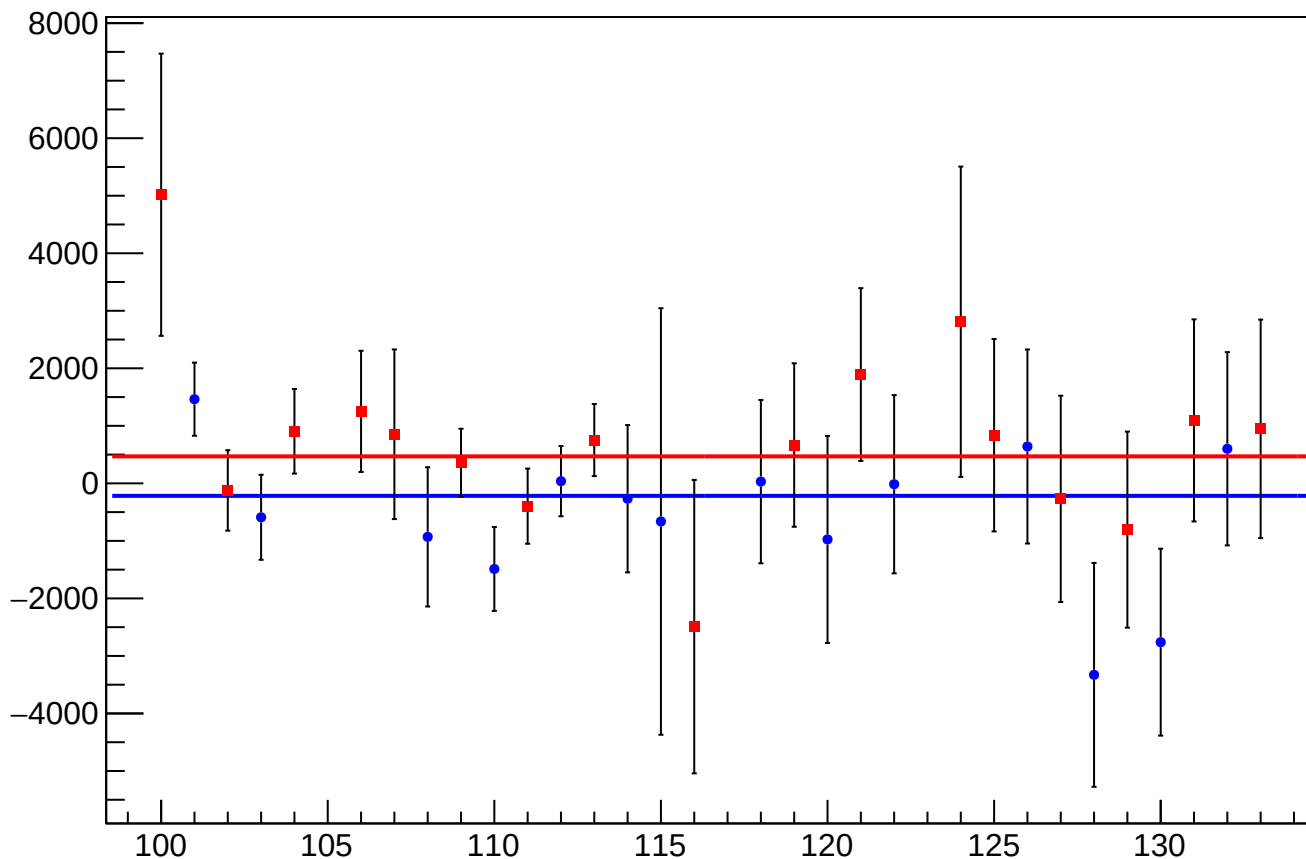
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 610.334+/-0.132  $\chi^2/\text{NDF}$ : 3813076.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1548\_avg\_mean vs Slug



Right In: -217.300+/-279.413  $\chi^2/\text{NDF}$ : 16.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 469.296+/-249.859  $\chi^2/\text{NDF}$ : 11.1/16

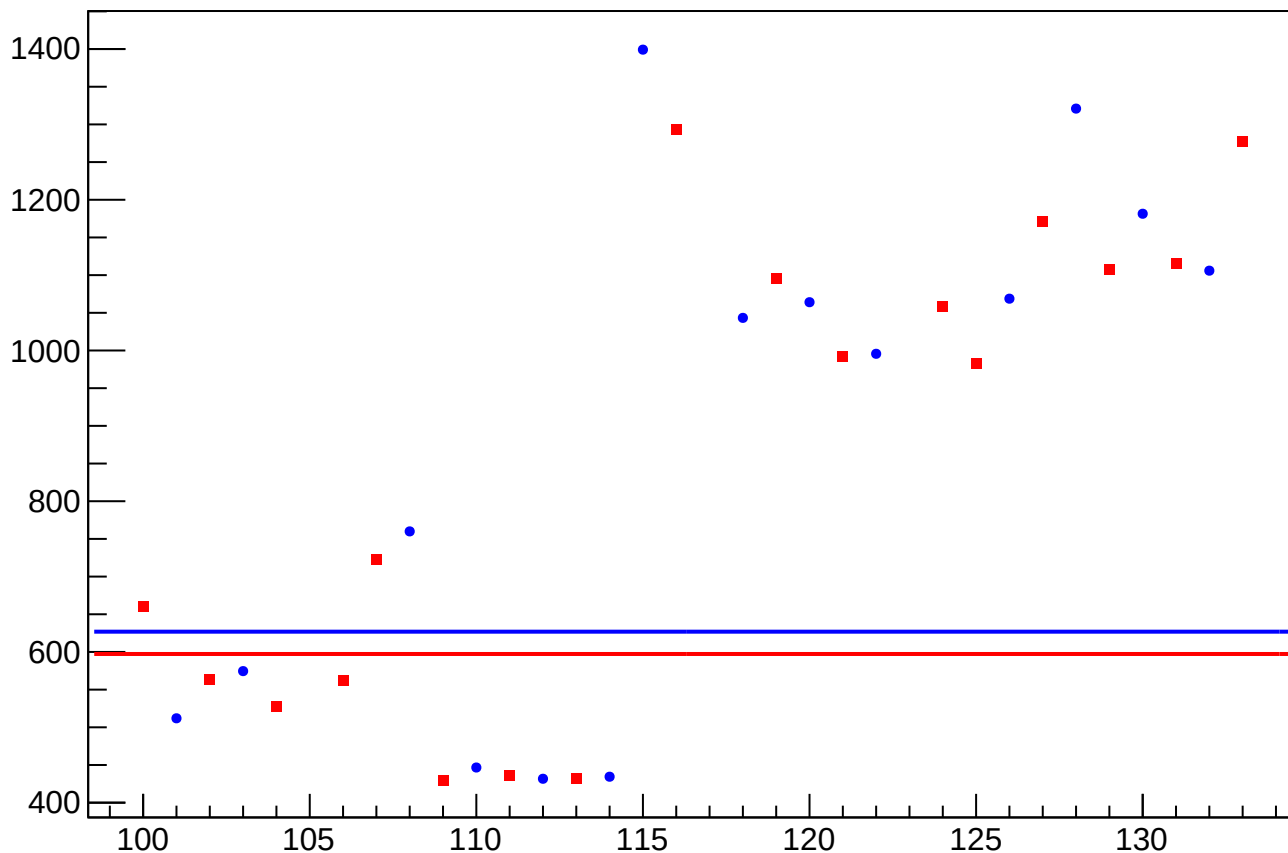
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 164.217+/-186.252  $\chi^2/\text{NDF}$ : 31.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1548\_avg\_rms vs Slug



Right In: 626.903+/-0.198  $\chi^2/\text{NDF}$ : 1749462.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 597.299+/-0.177  $\chi^2/\text{NDF}$ : 1973714.1/16

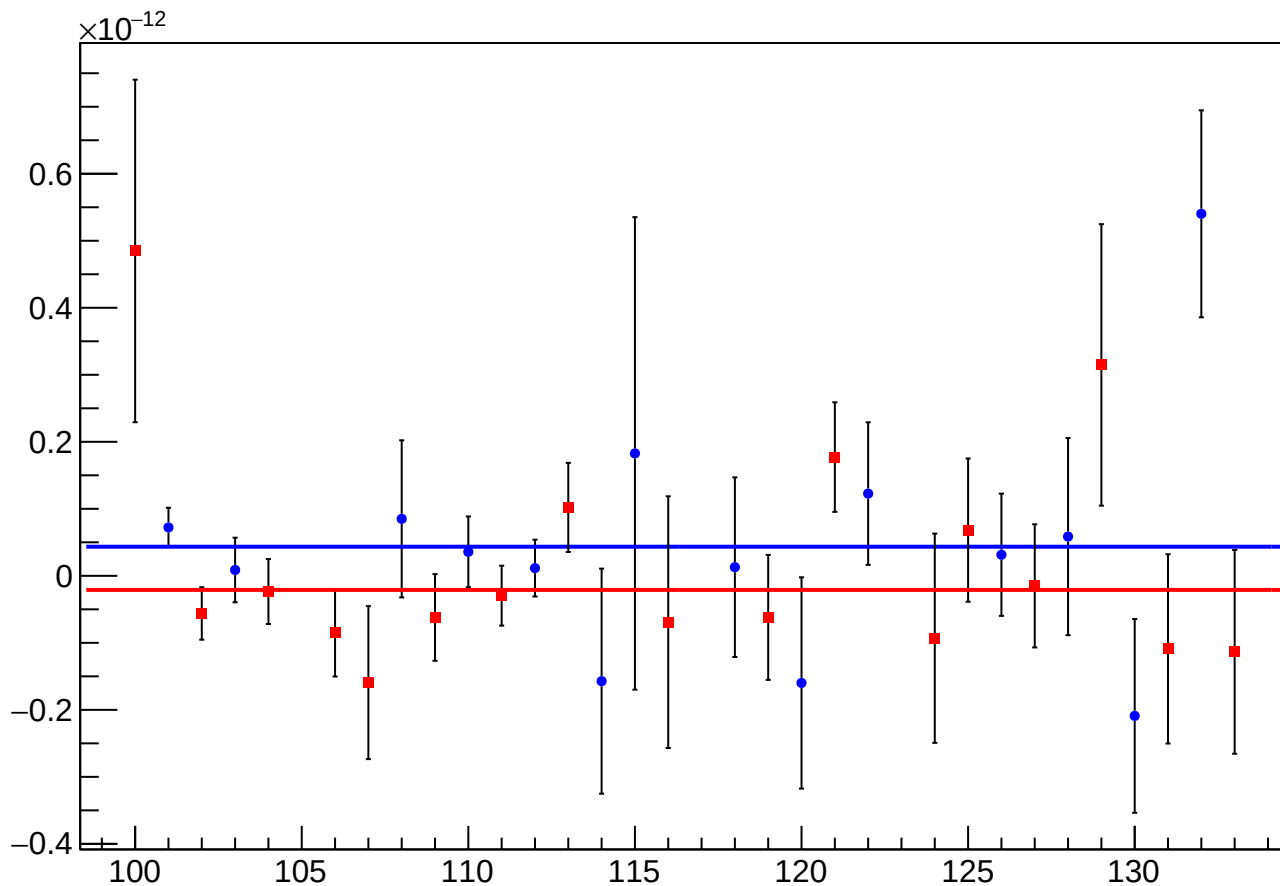
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 610.453+/-0.132  $\chi^2/\text{NDF}$ : 3735652.1/30

- 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: 19.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 21.4/16

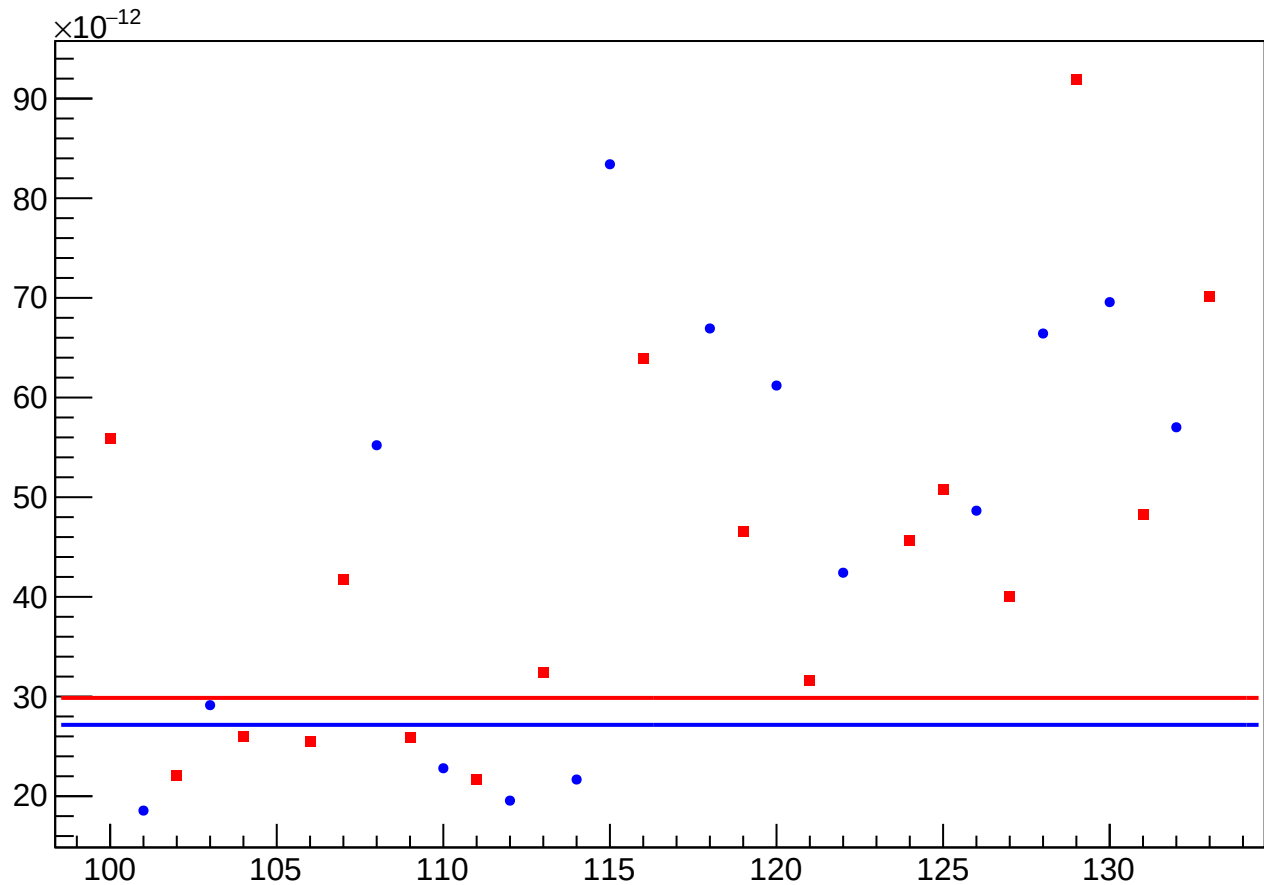
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 47.2/30

- 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  $\chi^2/\text{NDF}$ : 1231356.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 822961.2/16

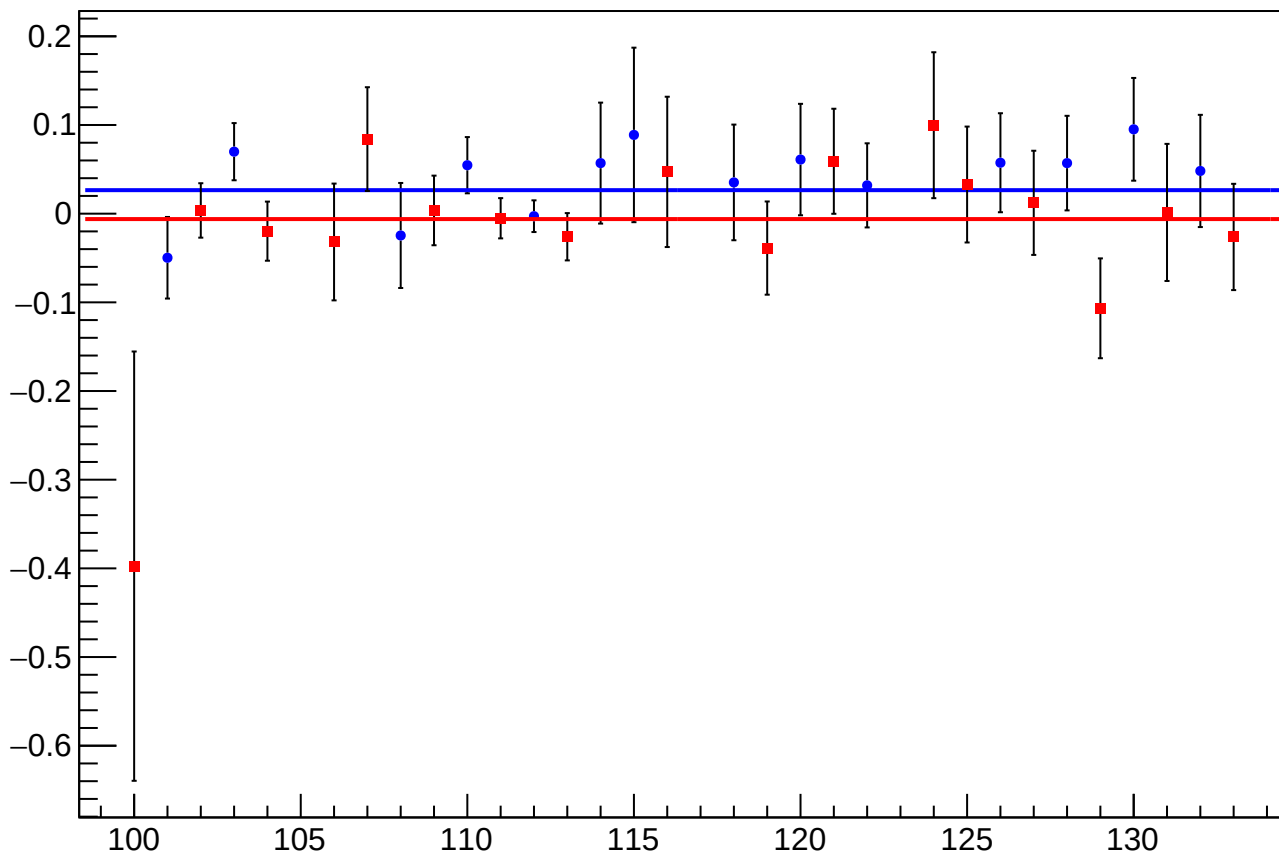
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2076595.3/30

- 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: 0.027 $\pm$ 0.011  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.006 $\pm$ 0.011  $\chi^2$ /NDF: 13.5/16

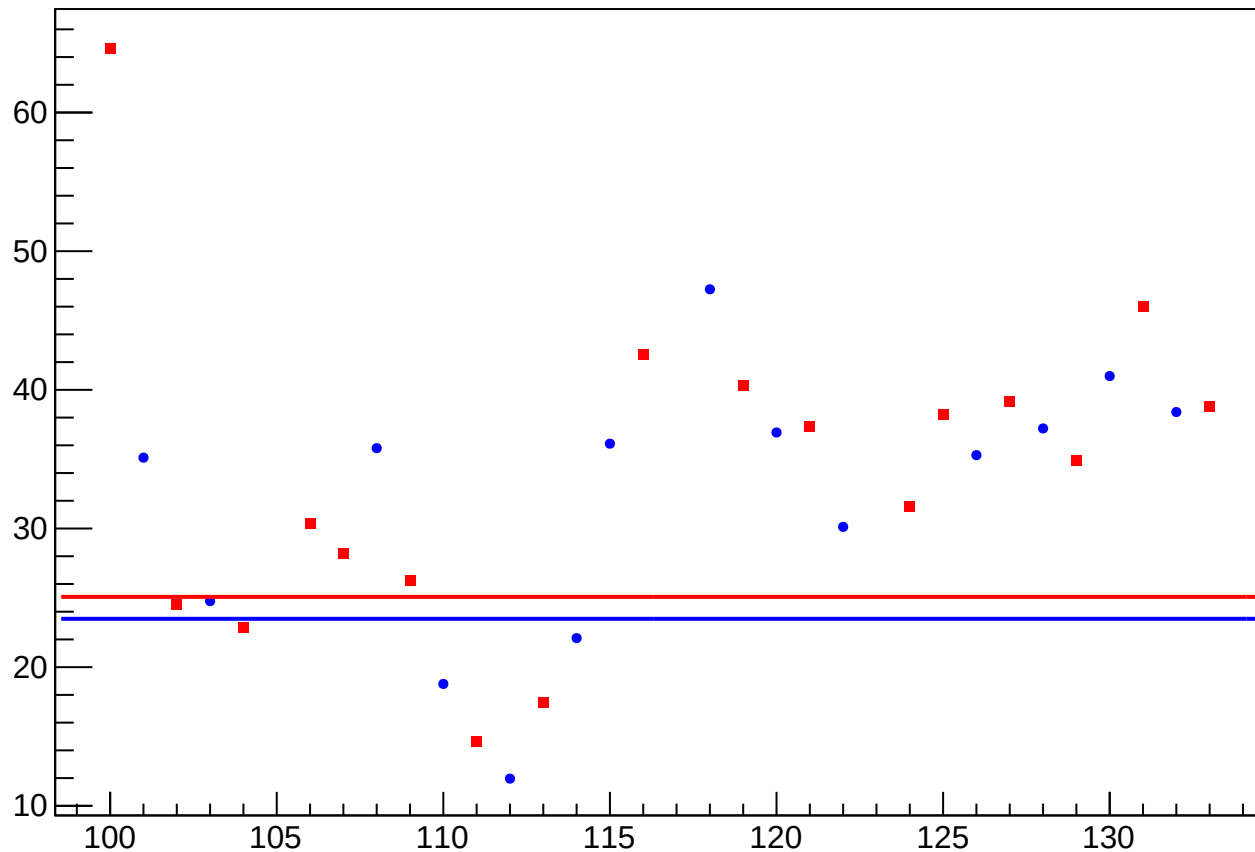
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.008  $\chi^2$ /NDF: 29.9/30

- 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: 23.487+/-0.008  $\chi^2/\text{NDF}$ : 2037970.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.070+/-0.008  $\chi^2/\text{NDF}$ : 1532300.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

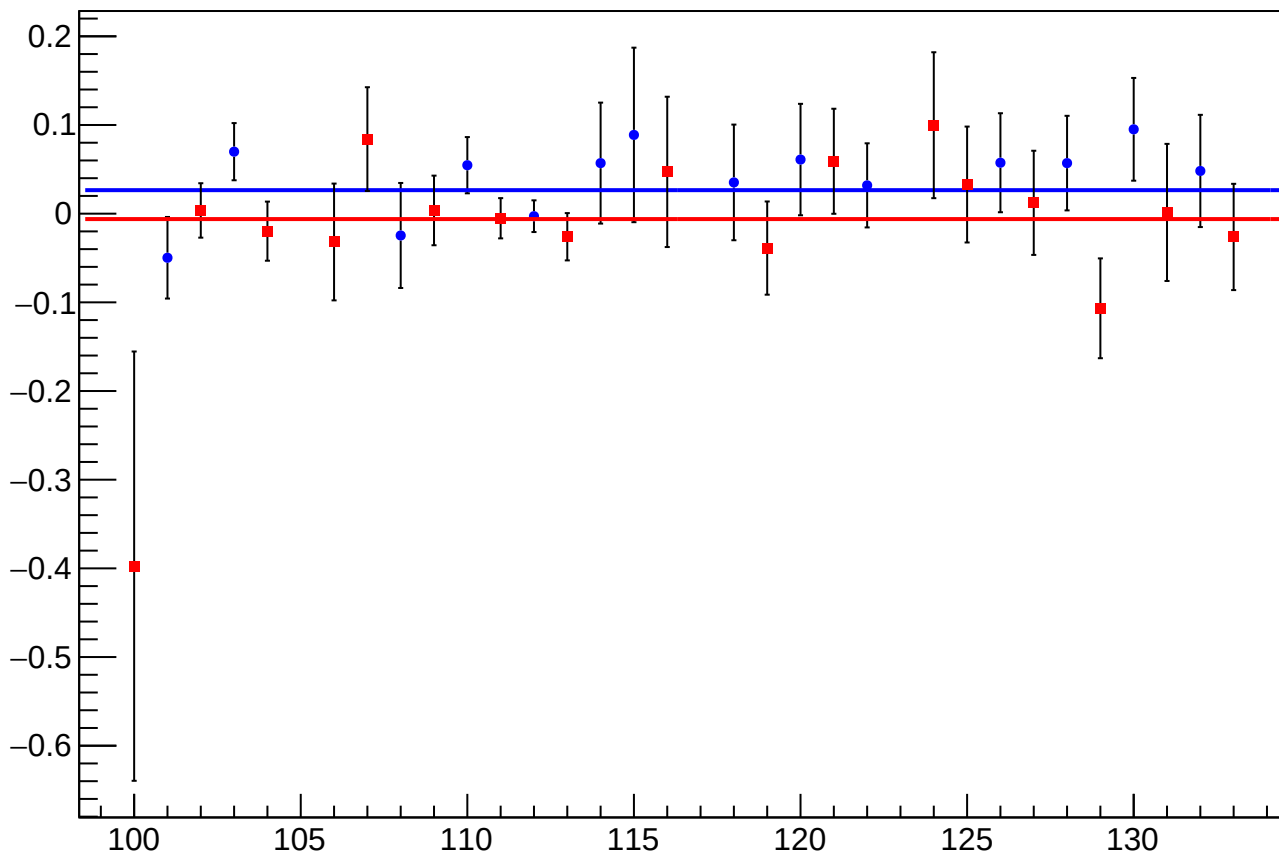
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.297+/-0.005  $\chi^2/\text{NDF}$ : 3591583.0/30

- 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: 0.027 $\pm$ 0.011  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.006 $\pm$ 0.011  $\chi^2$ /NDF: 13.5/16

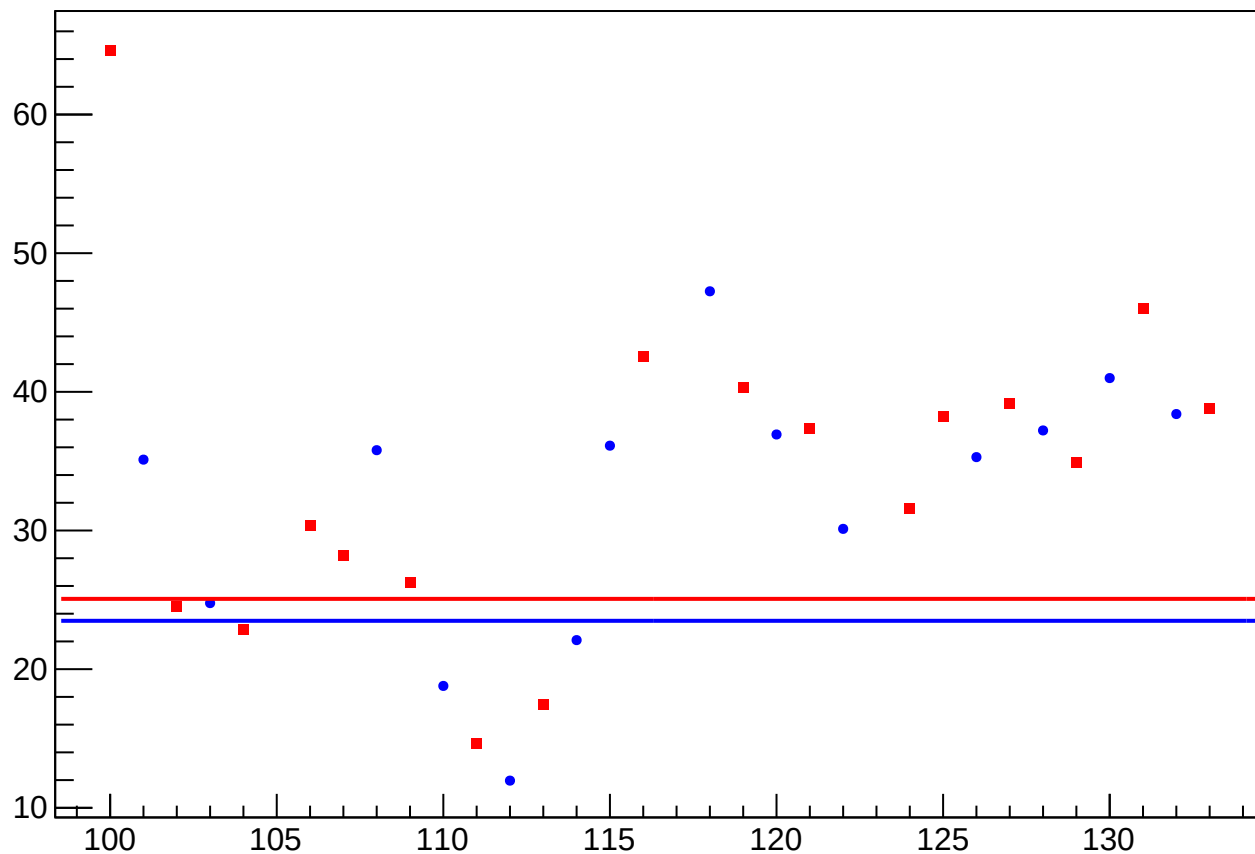
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.008  $\chi^2$ /NDF: 29.9/30

- 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: 23.487+/-0.008  $\chi^2/\text{NDF}$ : 2037970.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.070+/-0.008  $\chi^2/\text{NDF}$ : 1532300.3/16

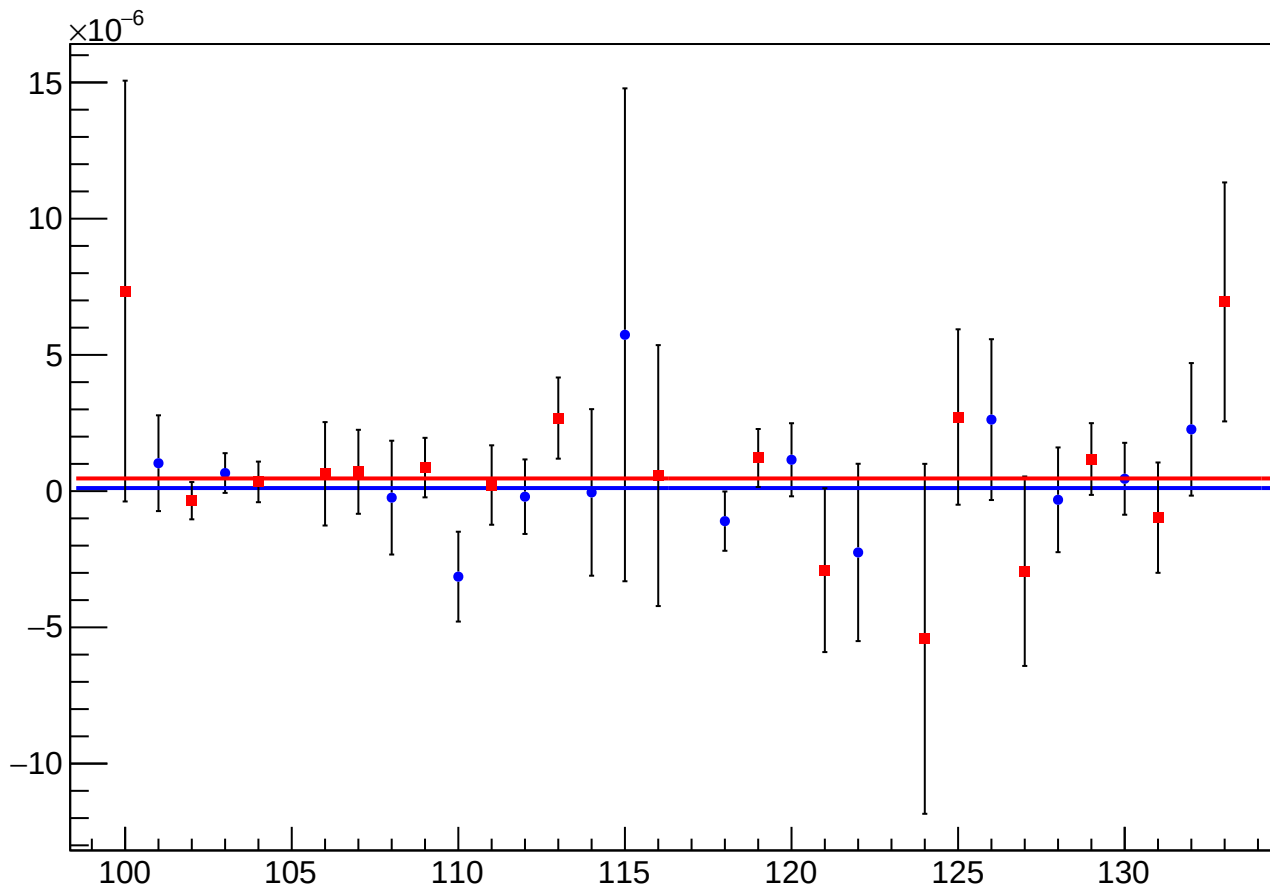
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.297+/-0.005  $\chi^2/\text{NDF}$ : 3591583.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 9.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.7/16

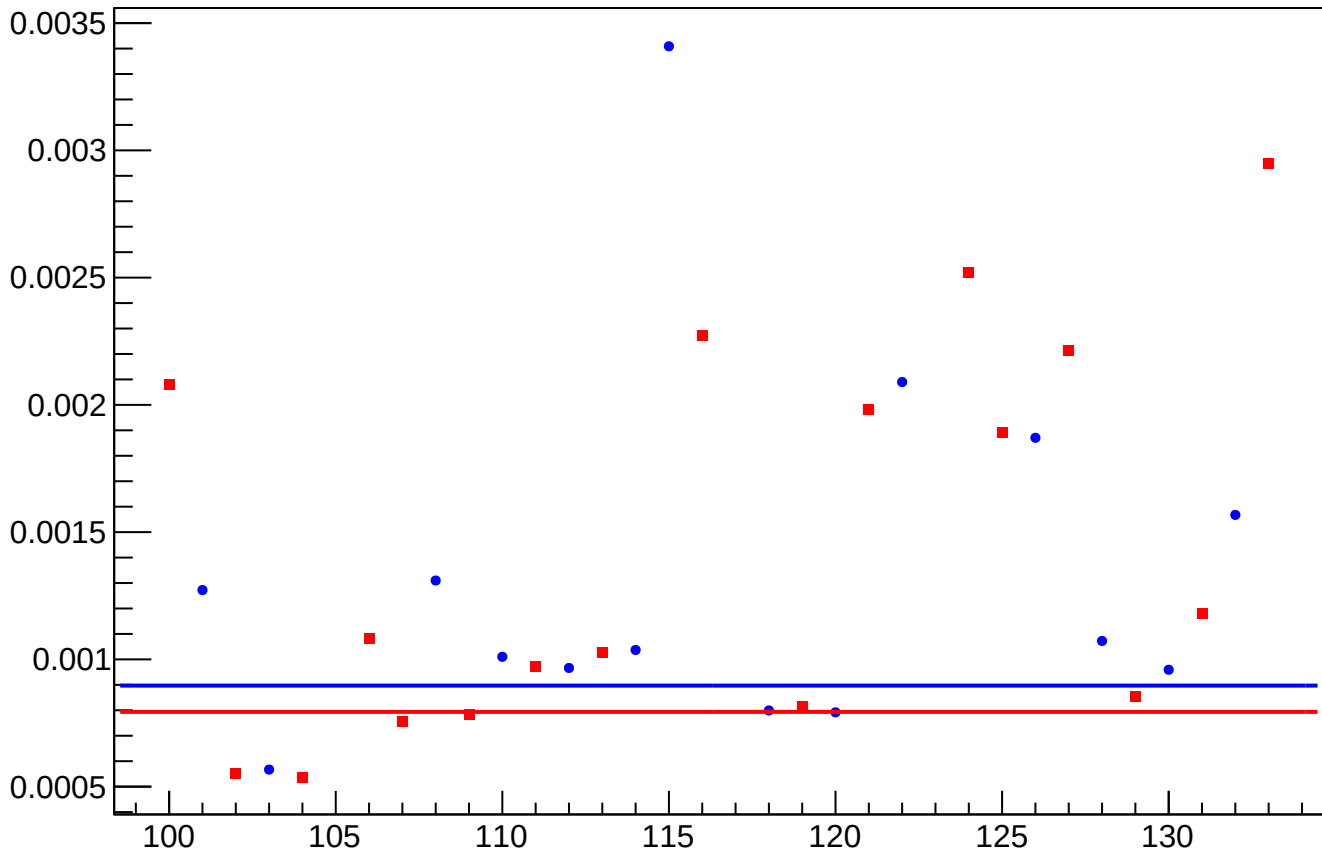
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 21.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1439898.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2450140.1/16

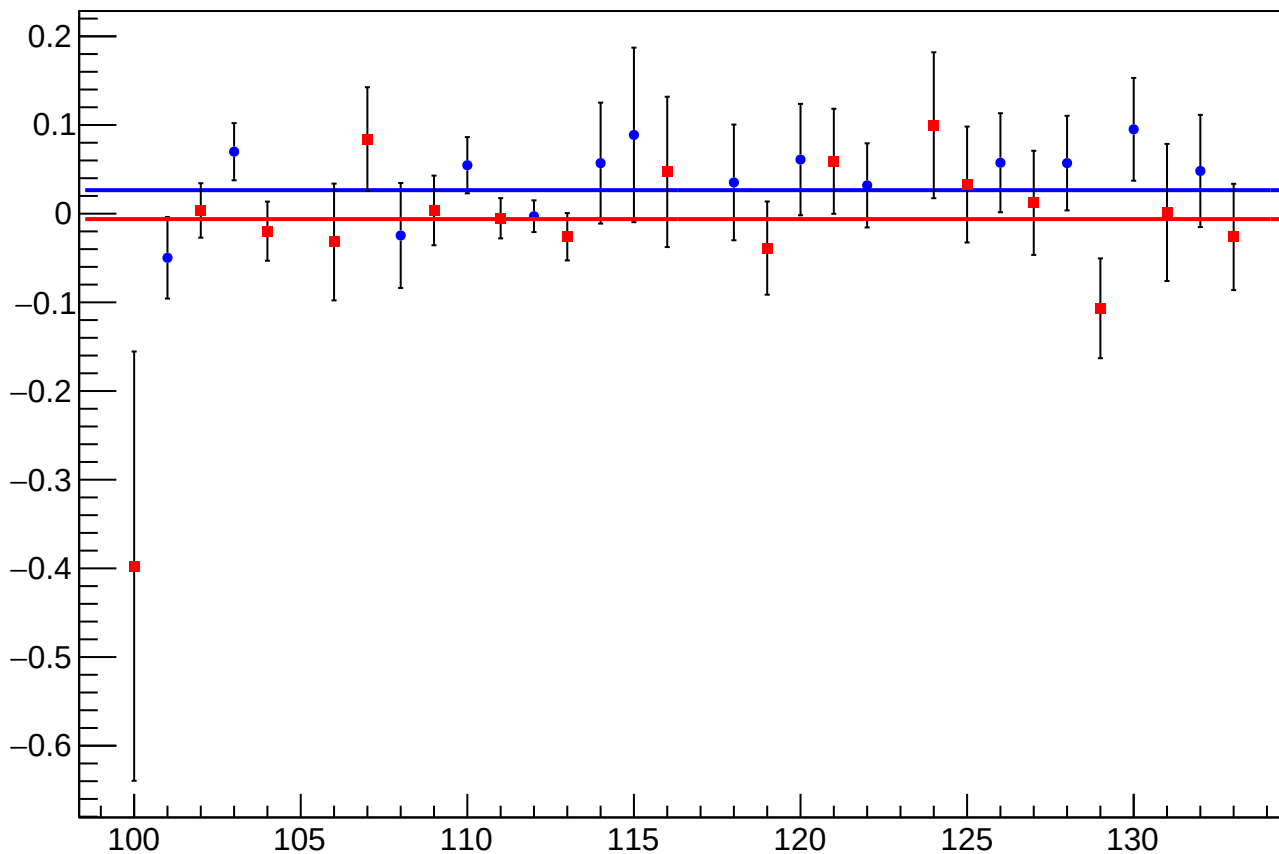
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3965634.3/30

- 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: 0.027 $\pm$ 0.011  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.006 $\pm$ 0.011  $\chi^2$ /NDF: 13.5/16

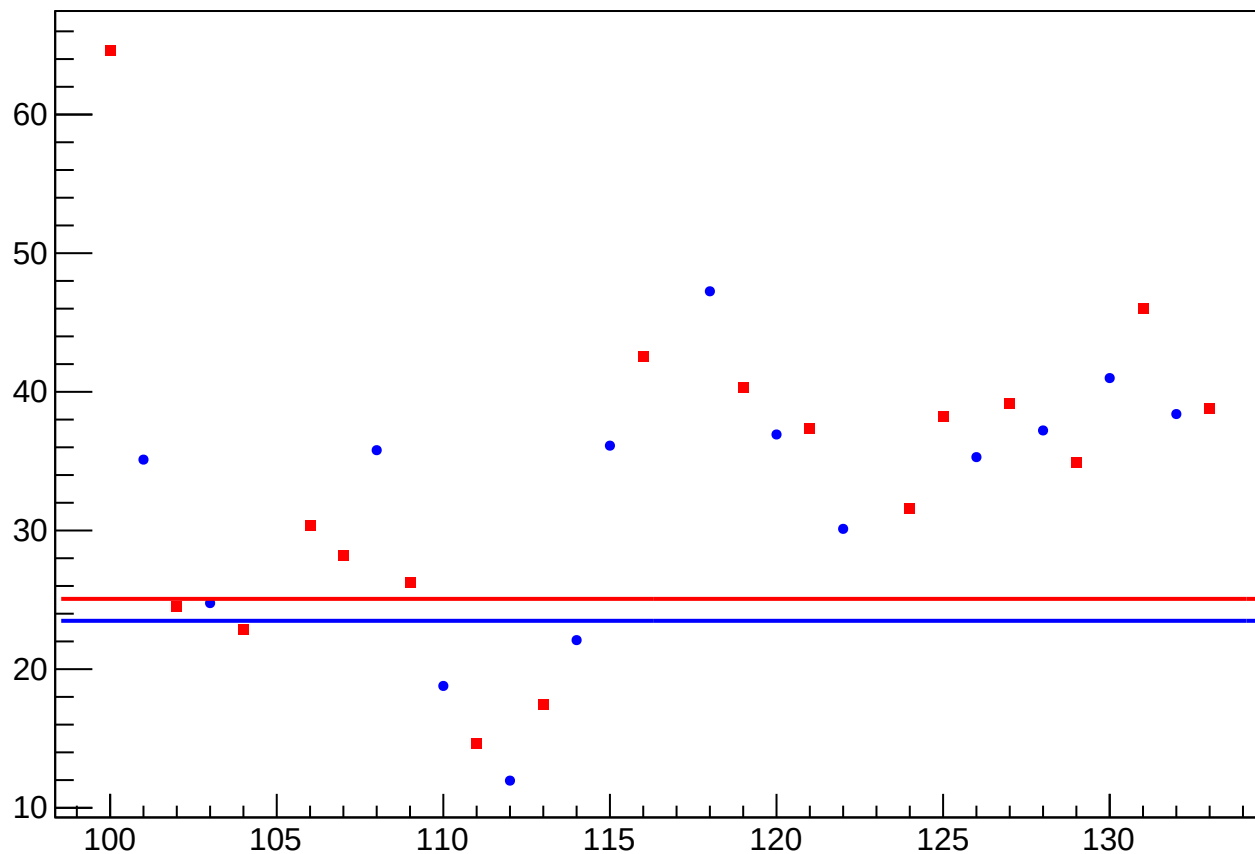
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.008  $\chi^2$ /NDF: 29.9/30

- 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: 23.487+/-0.008  $\chi^2/\text{NDF}$ : 2038124.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.069+/-0.008  $\chi^2/\text{NDF}$ : 1532439.0/16

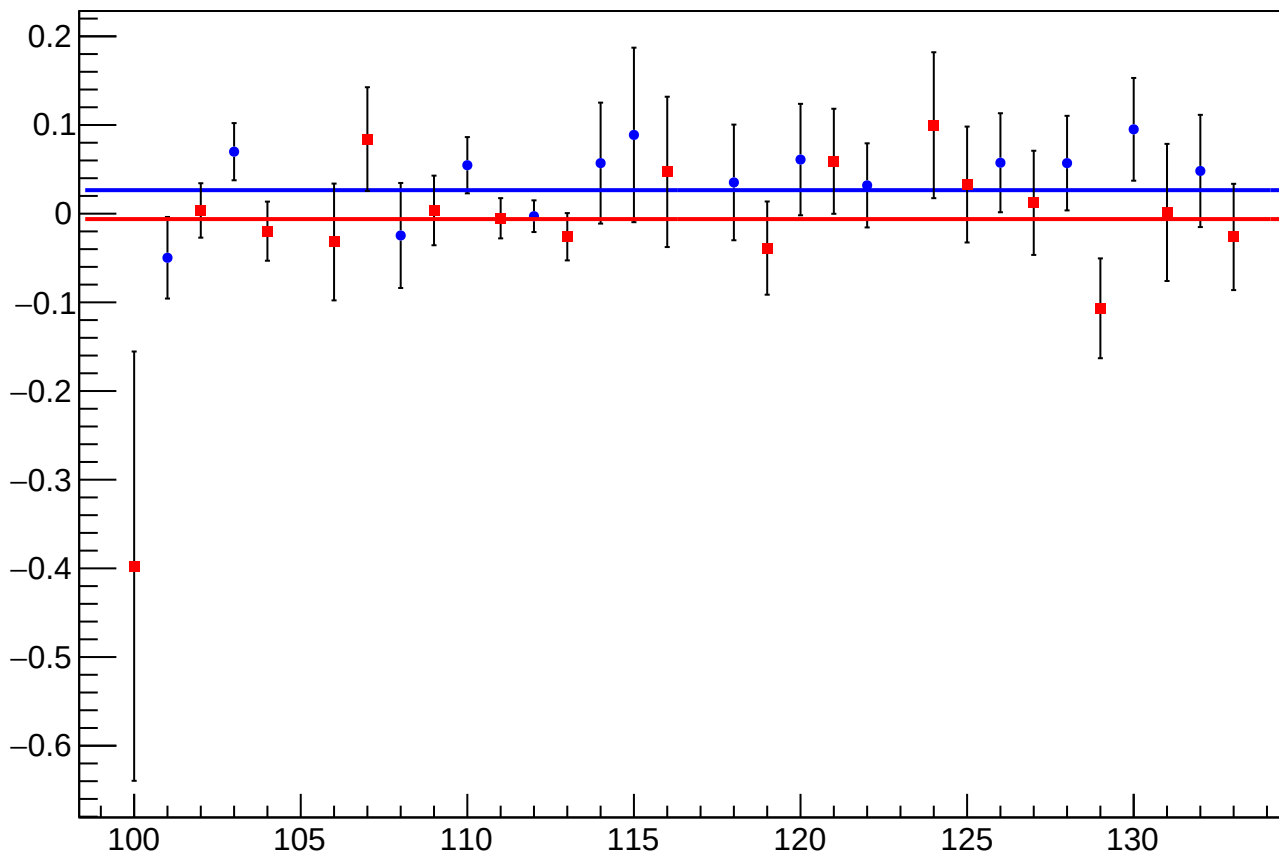
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.297+/-0.005  $\chi^2/\text{NDF}$ : 3591880.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.027 $\pm$ 0.011  $\chi^2$ /NDF: 11.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.006 $\pm$ 0.011  $\chi^2$ /NDF: 13.5/16

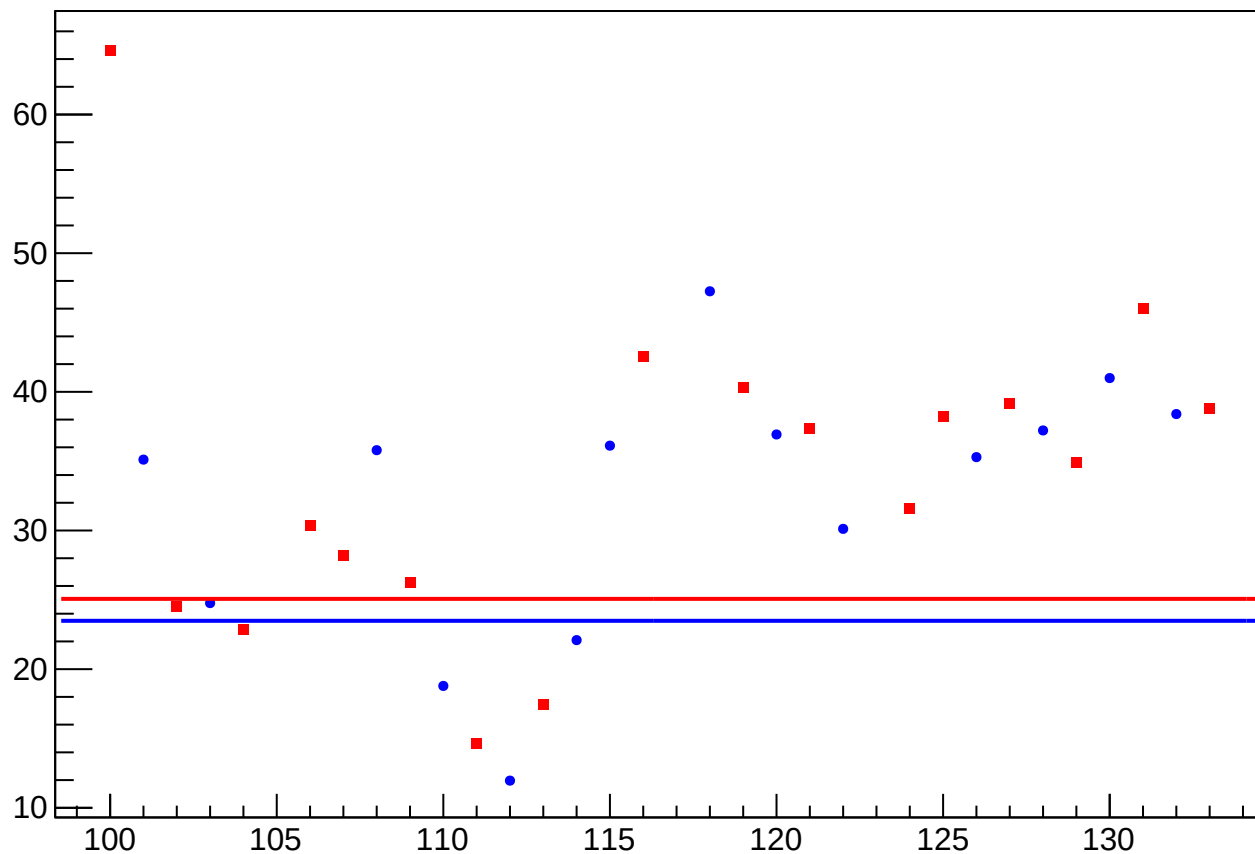
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.008  $\chi^2$ /NDF: 29.9/30

- 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: 23.487 $\pm$ 0.008  $\chi^2$ /NDF: 2038124.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 25.069 $\pm$ 0.008  $\chi^2$ /NDF: 1532439.0/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

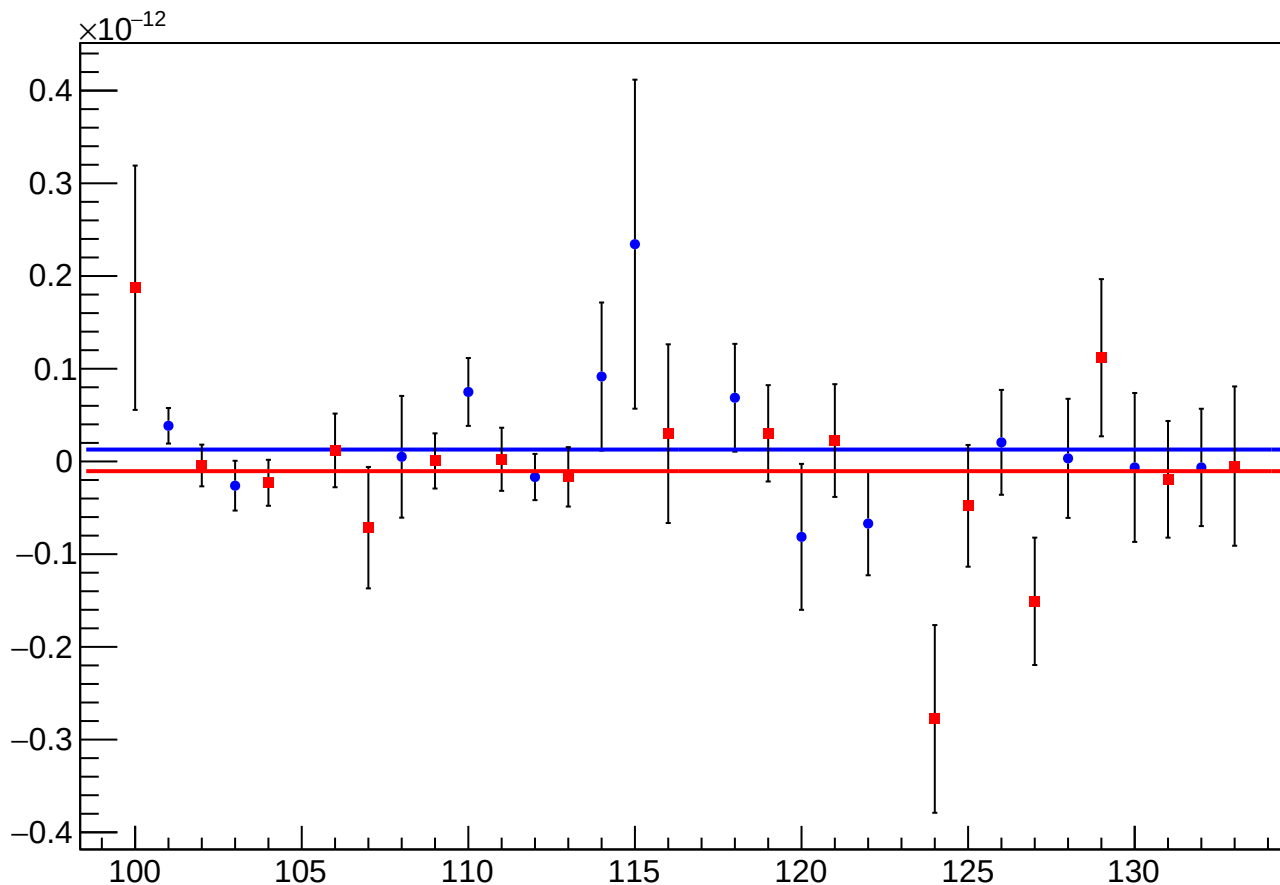
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 24.297 $\pm$ 0.005  $\chi^2$ /NDF: 3591880.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1548\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 15.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 18.7/16

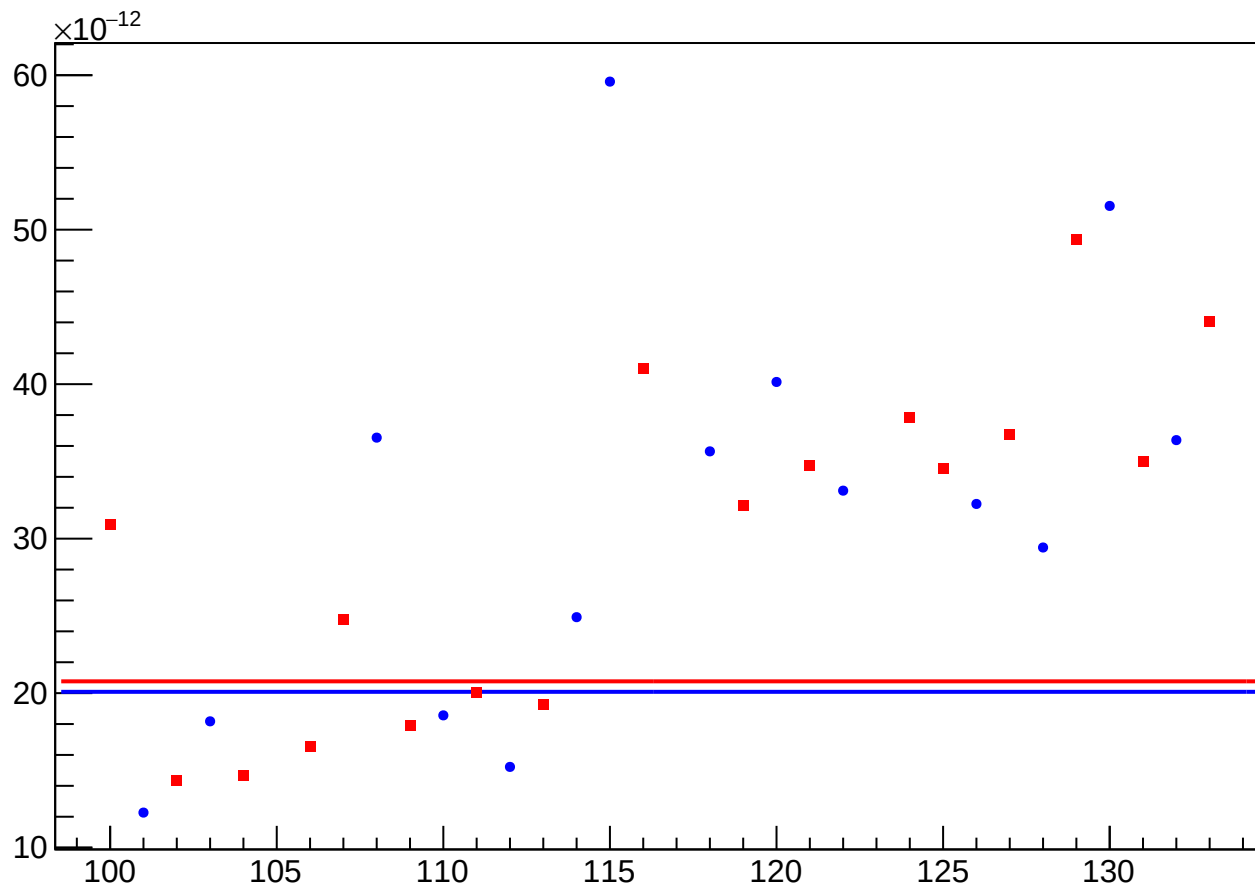
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 36.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1548\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1610300.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1372706.7/16

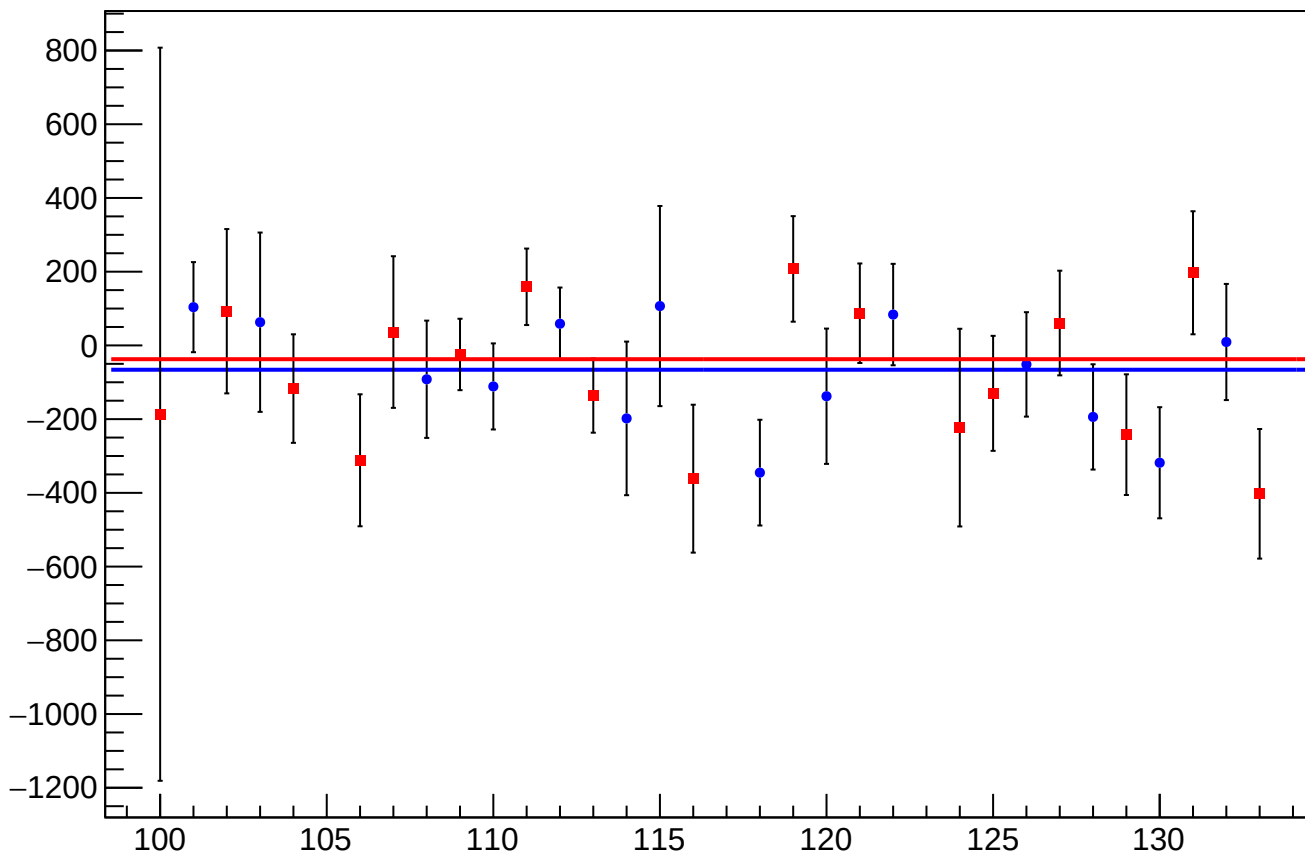
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2987128.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: -65.997+/-39.186  $\chi^2$ /NDF: 13.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -37.380+/-36.294  $\chi^2$ /NDF: 23.2/16

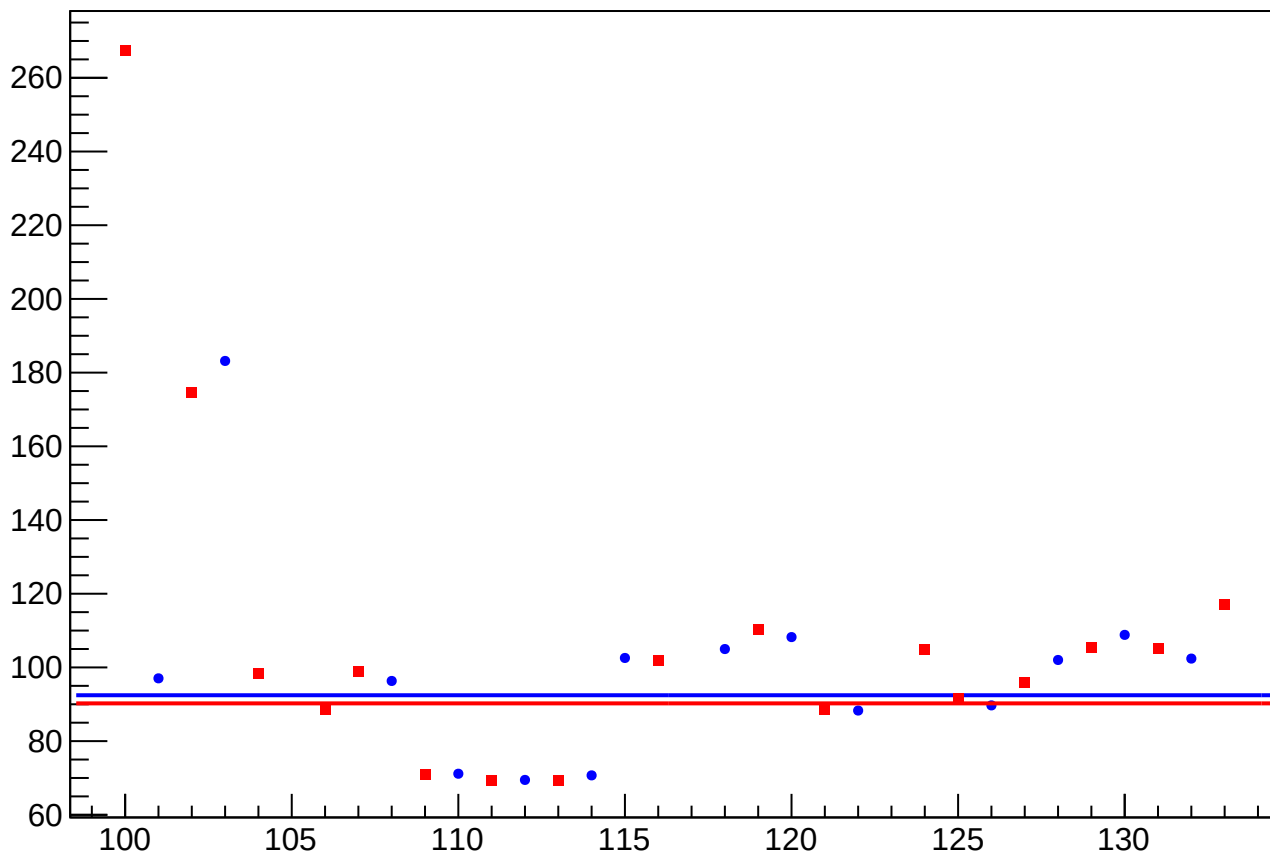
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -50.594+/-26.627  $\chi^2$ /NDF: 37.3/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 92.452+/-0.028  $\chi^2/\text{NDF}$ : 555994.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 90.243+/-0.026  $\chi^2/\text{NDF}$ : 742681.6/16

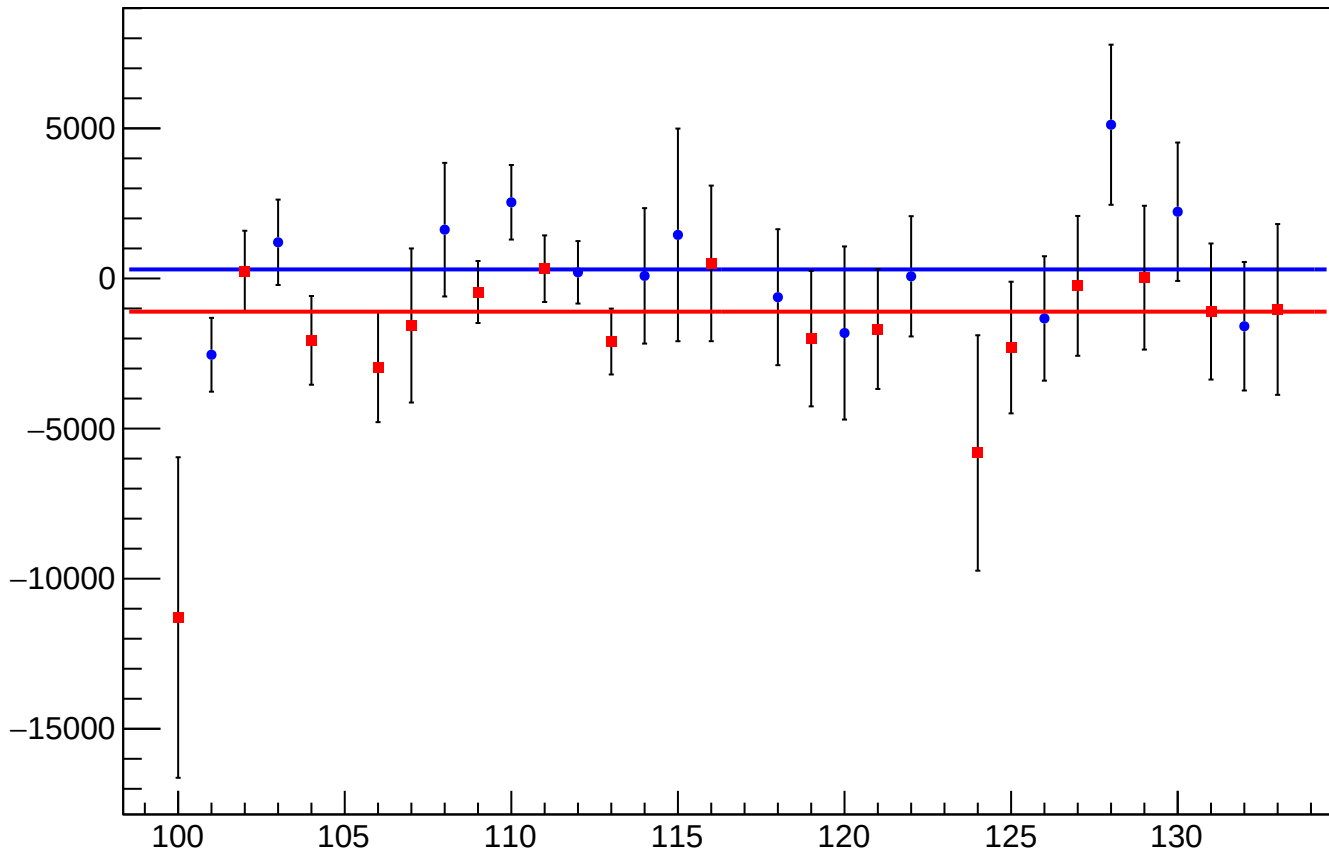
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 91.263+/-0.019  $\chi^2/\text{NDF}$ : 1302095.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_reg\_correction\_mean vs Slug



Right In:  $301.112 \pm 468.740$   $\chi^2/\text{NDF}$ : 15.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1105.853 \pm 421.893$   $\chi^2/\text{NDF}$ : 11.7/16

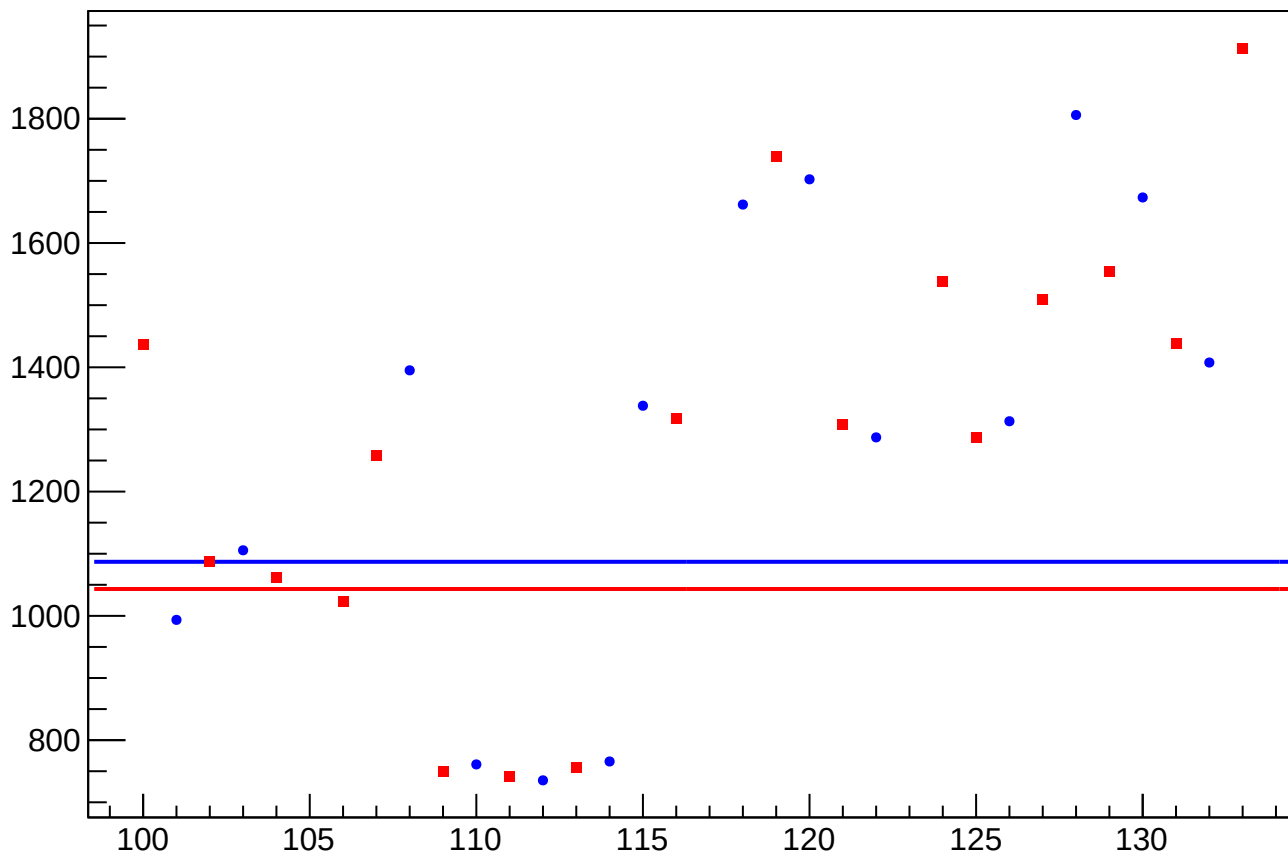
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-476.172 \pm 313.582$   $\chi^2/\text{NDF}$ : 32.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_reg\_correction\_rms vs Slug



Right In: 1087.016 $\pm$ 0.331  $\chi^2$ /NDF: 1050933.8/13

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

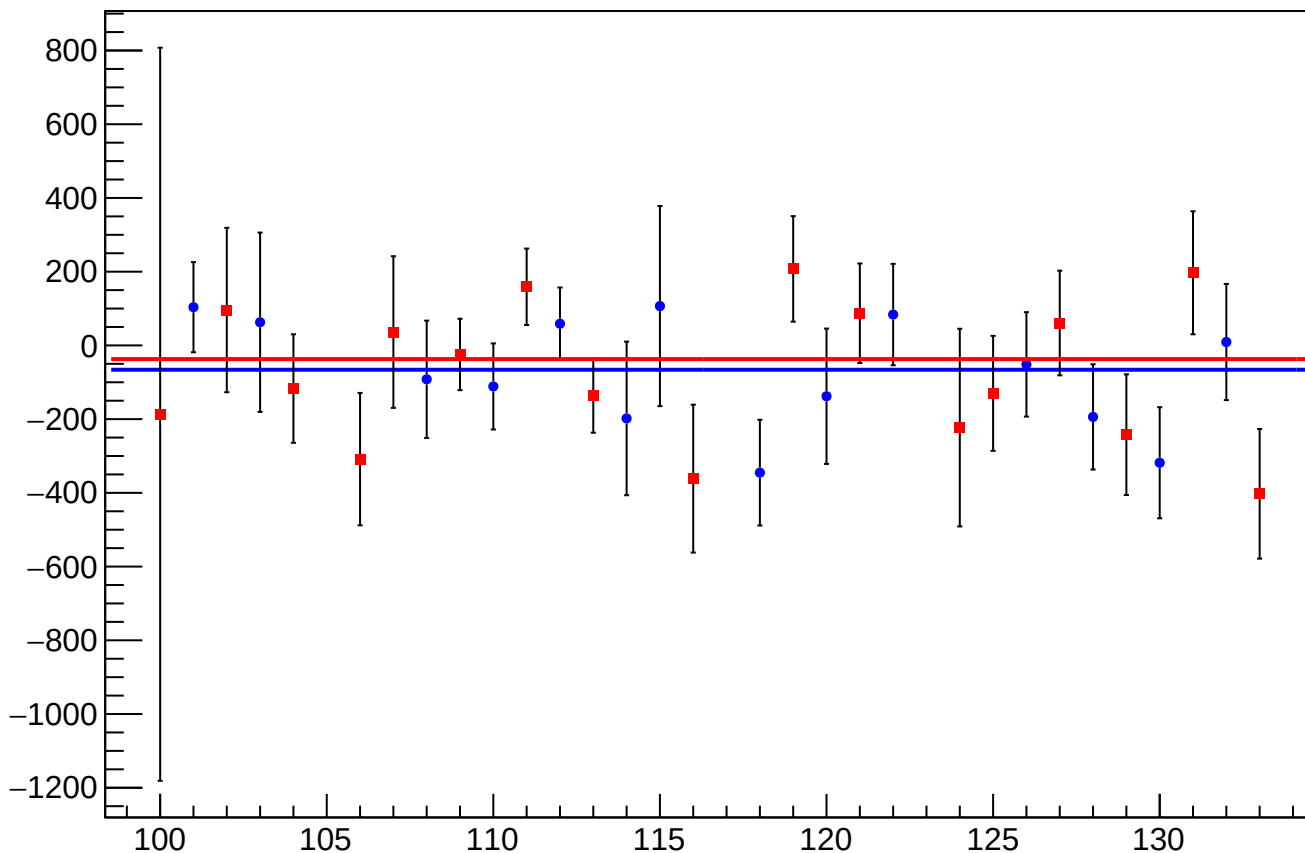
Right Out: 1043.254 $\pm$ 0.298  $\chi^2$ /NDF: 1196734.6/16

All: 1062.840 $\pm$ 0.222  $\chi^2$ /NDF: 2257298.9/30

- 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\_sam\_3748\_avg\_mean vs Slug



Right In: -66.015+/-39.186  $\chi^2$ /NDF: 13.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -37.098+/-36.299  $\chi^2$ /NDF: 23.2/16

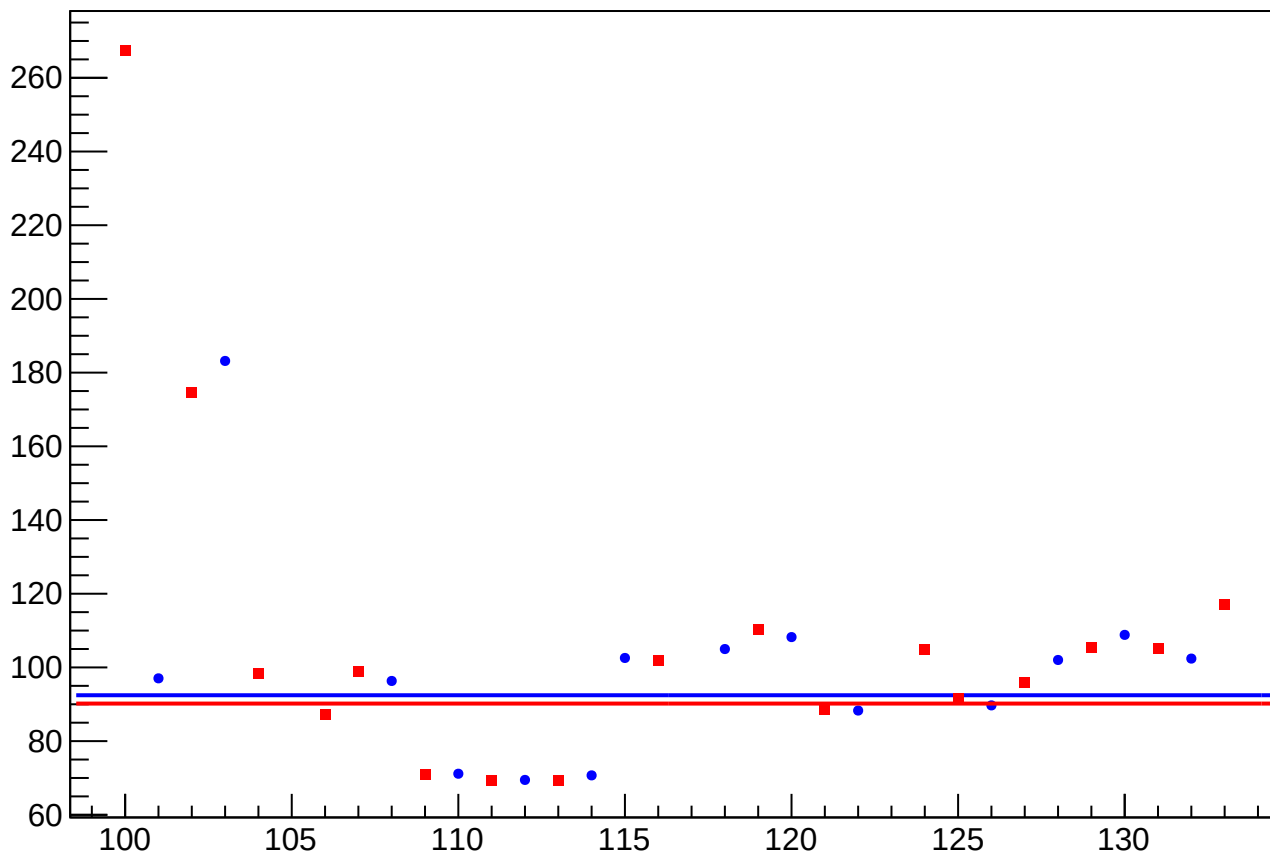
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -50.452+/-26.629  $\chi^2$ /NDF: 37.3/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 92.452+/-0.028  $\chi^2/\text{NDF}$ : 555998.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 90.190+/-0.026  $\chi^2/\text{NDF}$ : 743288.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

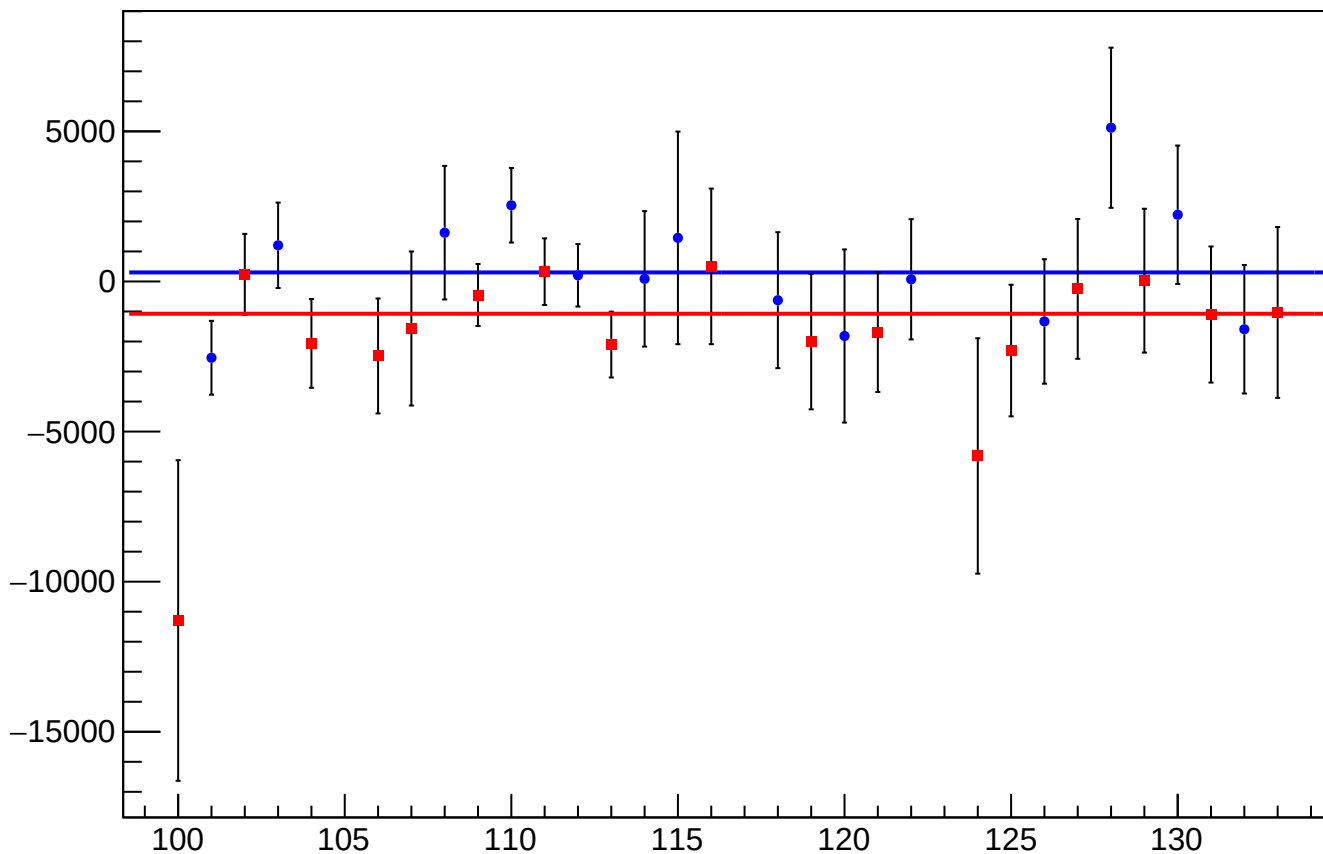
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 91.235+/-0.019  $\chi^2/\text{NDF}$ : 1302871.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_3748\_avg\_cor\_correction\_mean vs Slug



Right In: 301.094 $\pm$ 468.745  $\chi^2$ /NDF: 15.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1075.676 $\pm$ 422.837  $\chi^2$ /NDF: 11.2/16

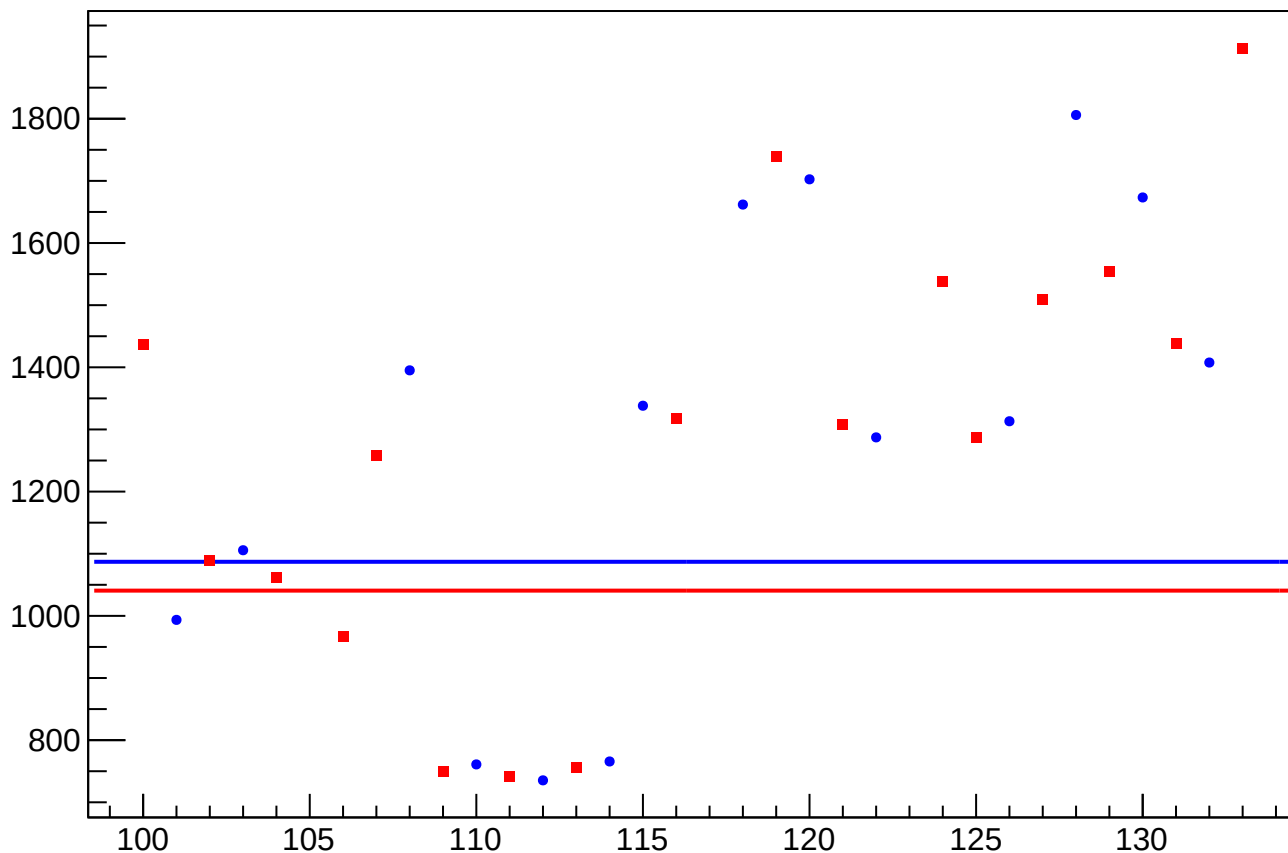
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -457.995 $\pm$ 313.970  $\chi^2$ /NDF: 31.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_cor\_correction\_rms vs Slug



Right In: 1087.027+/-0.331  $\chi^2$ /NDF: 1050938.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

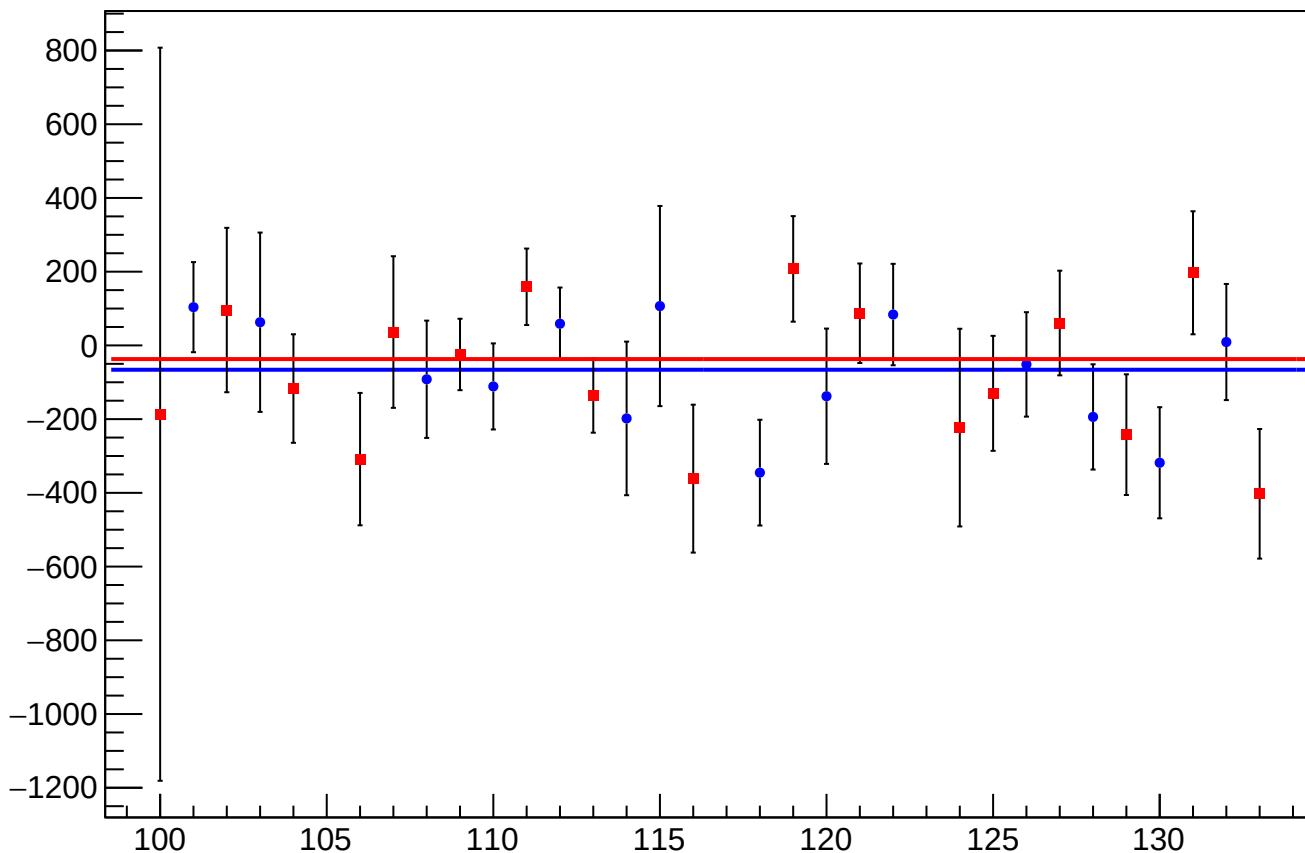
Right Out: 1040.631+/-0.299  $\chi^2$ /NDF: 1199682.6/16

All: 1061.447+/-0.222  $\chi^2$ /NDF: 2261424.4/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: -66.015+/-39.186  $\chi^2/\text{NDF}$ : 13.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -37.098+/-36.299  $\chi^2/\text{NDF}$ : 23.2/16

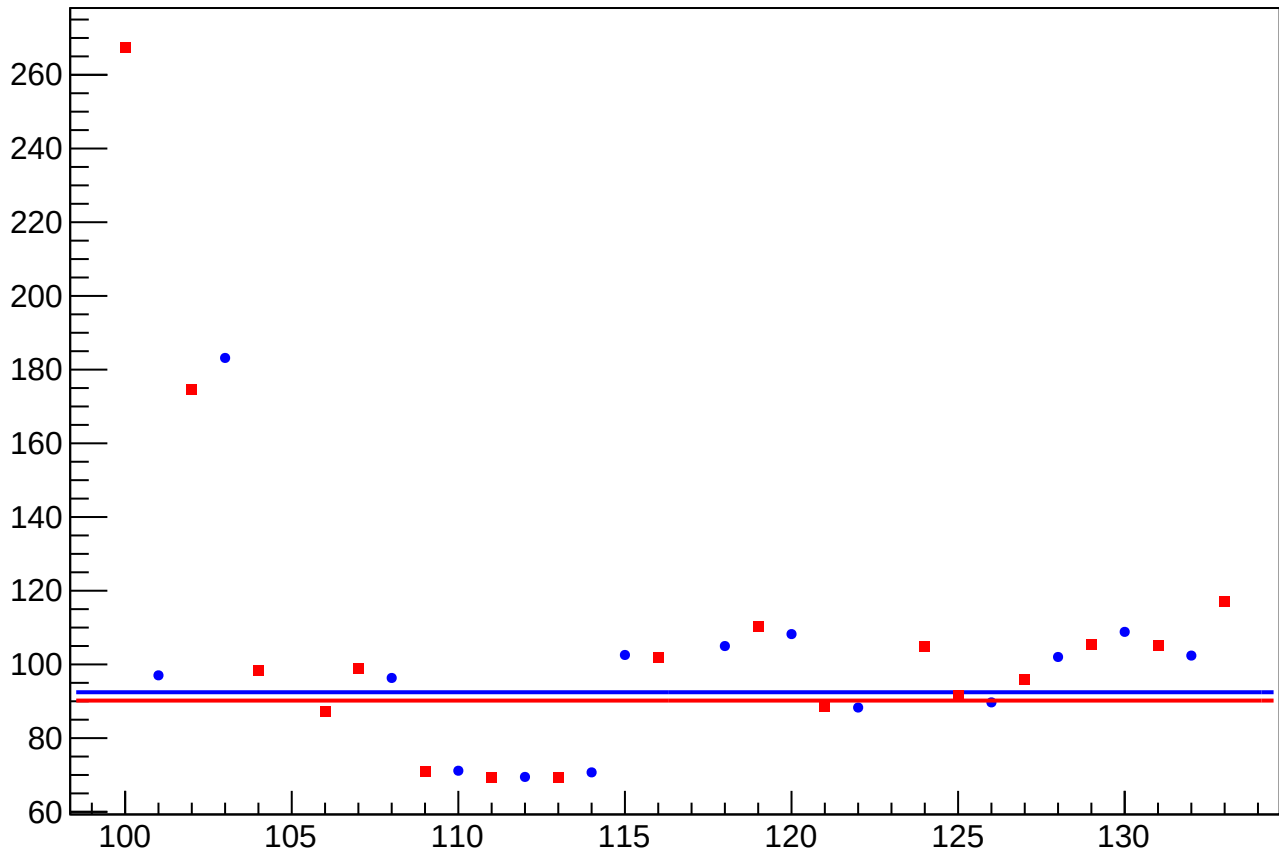
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -50.452+/-26.629  $\chi^2/\text{NDF}$ : 37.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 92.452+/-0.028  $\chi^2/\text{NDF}$ : 555998.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 90.190+/-0.026  $\chi^2/\text{NDF}$ : 743288.4/16

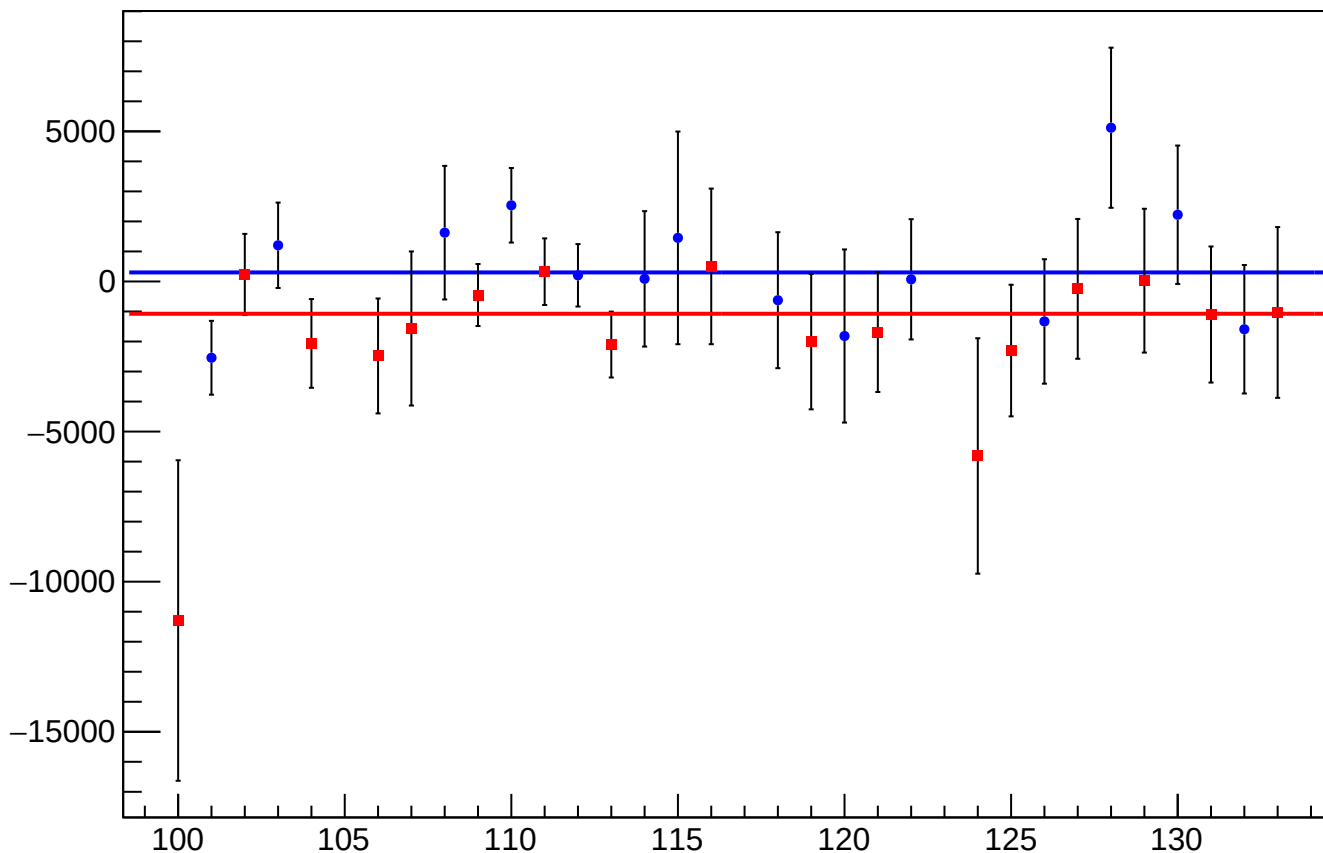
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 91.235+/-0.019  $\chi^2/\text{NDF}$ : 1302871.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 301.094+/-468.745  $\chi^2/\text{NDF}$ : 15.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1075.676+/-422.837  $\chi^2/\text{NDF}$ : 11.2/16

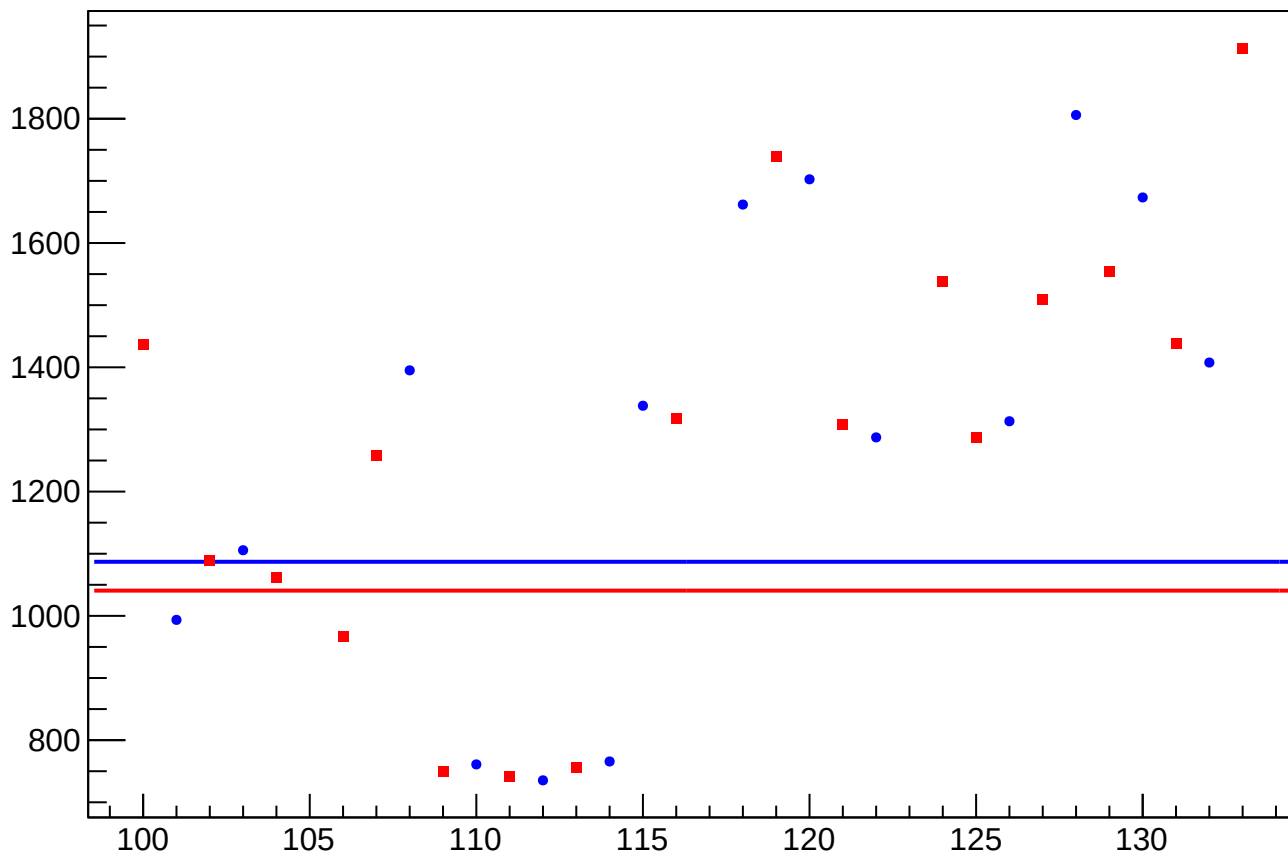
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -457.995+/-313.970  $\chi^2/\text{NDF}$ : 31.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1087.027+/-0.331  $\chi^2$ /NDF: 1050938.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

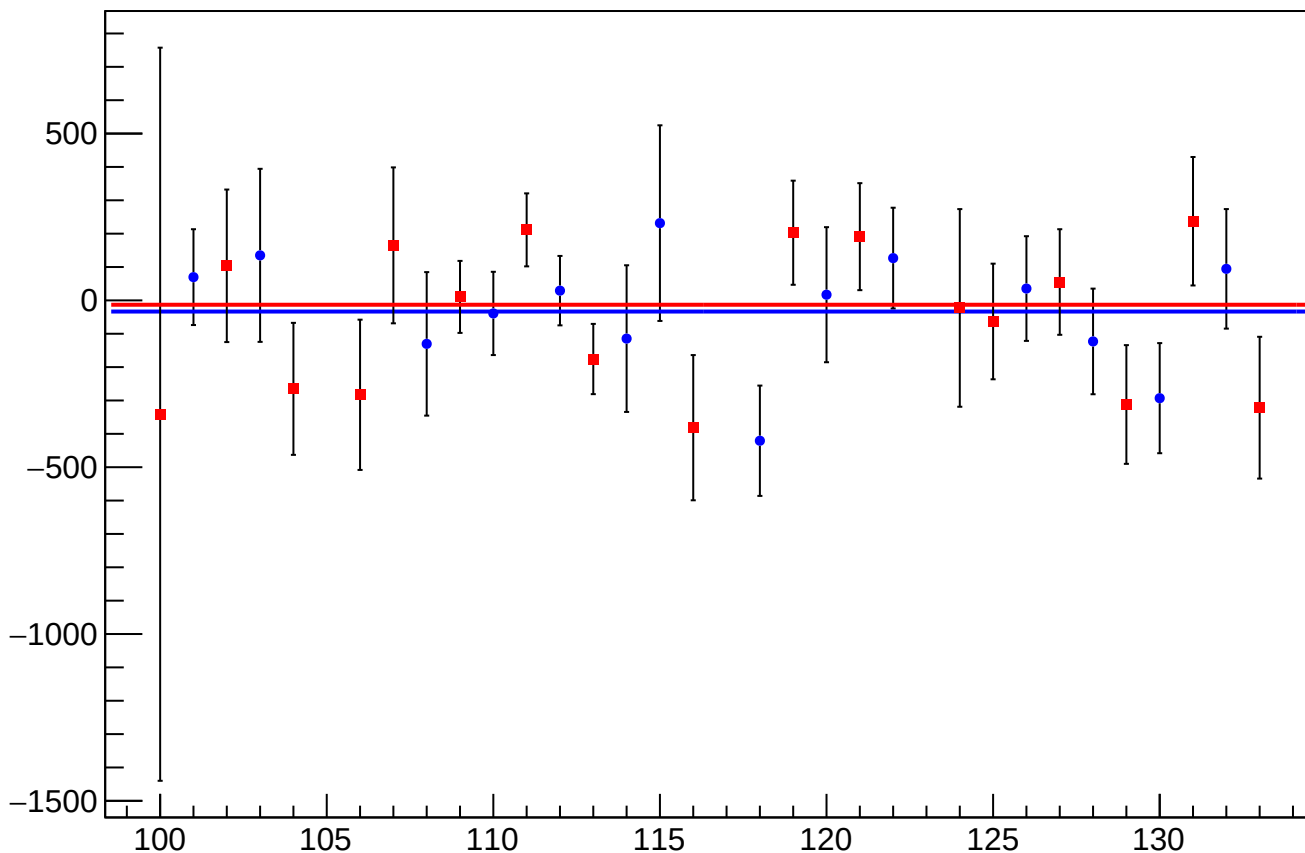
Right Out: 1040.631+/-0.299  $\chi^2$ /NDF: 1199682.6/16

All: 1061.447+/-0.222  $\chi^2$ /NDF: 2261424.4/30

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: -33.433+/-43.554  $\chi^2/\text{NDF}$ : 12.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13.070+/-40.501  $\chi^2/\text{NDF}$ : 23.9/16

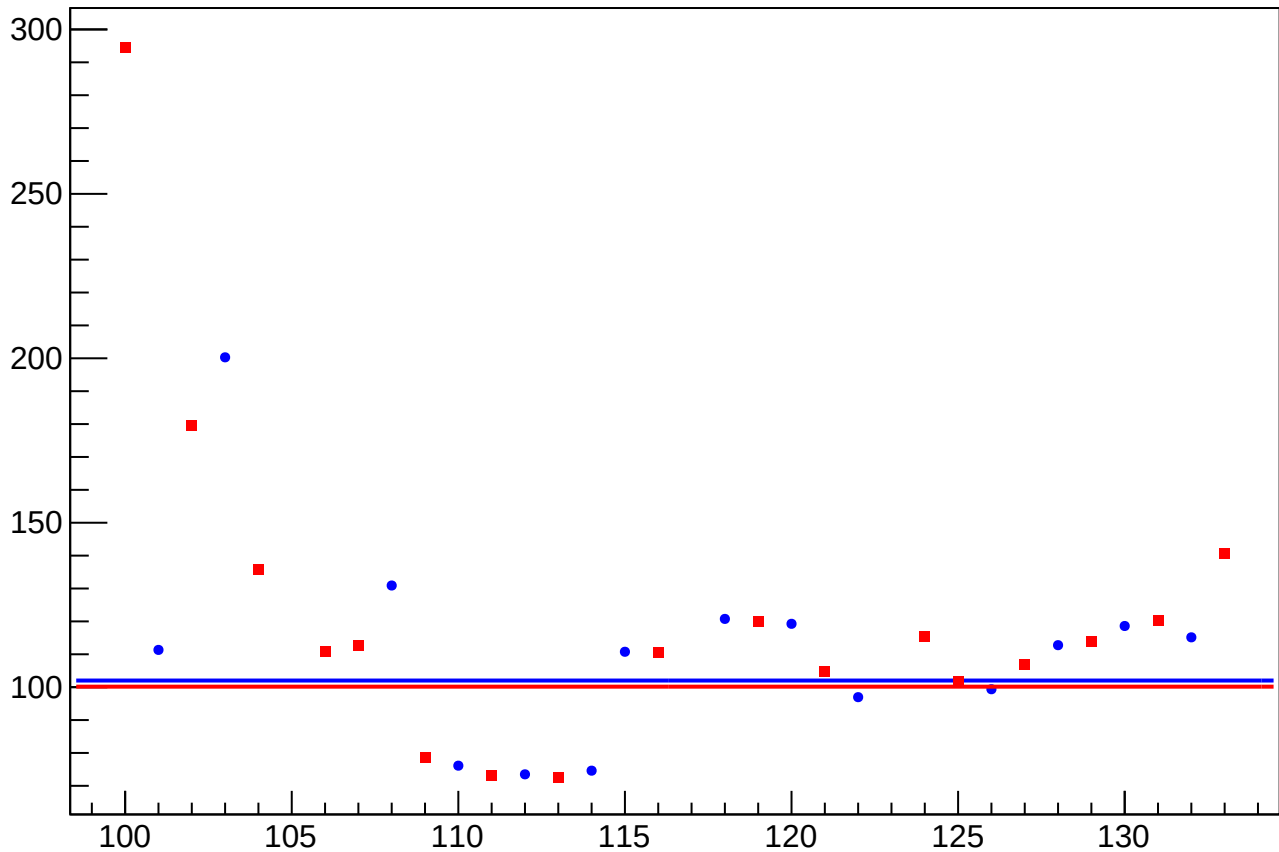
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -22.513+/-29.659  $\chi^2/\text{NDF}$ : 36.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 102.017+/-0.031  $\chi^2/\text{NDF}$ : 684184.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 100.153+/-0.029  $\chi^2/\text{NDF}$ : 874967.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

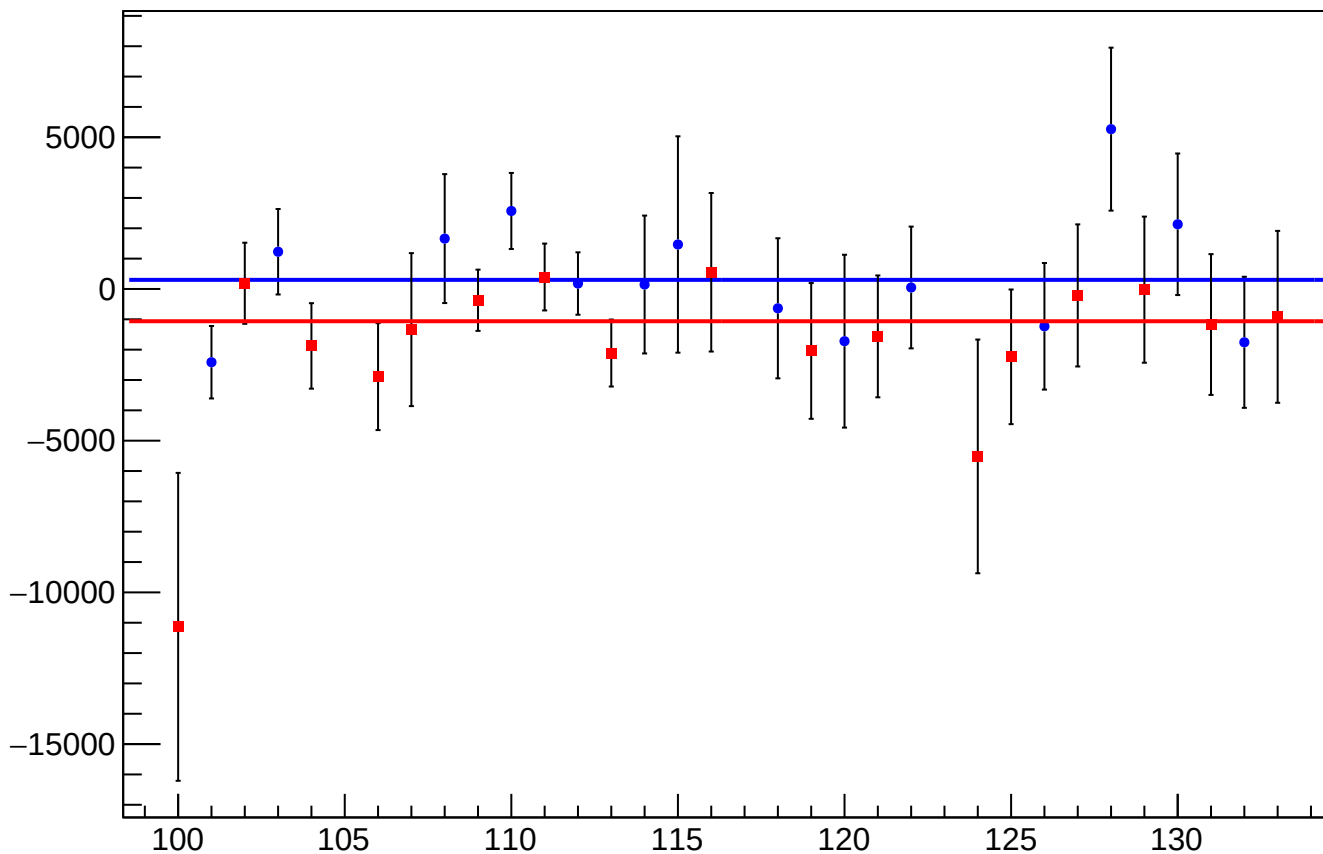
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 101.017+/-0.021  $\chi^2/\text{NDF}$ : 1561116.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_3748\_avg\_dit\_correction\_mean vs Slug



Right In: 300.444+/-465.883  $\chi^2/\text{NDF}$ : 15.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1063.670+/-417.473  $\chi^2/\text{NDF}$ : 11.9/16

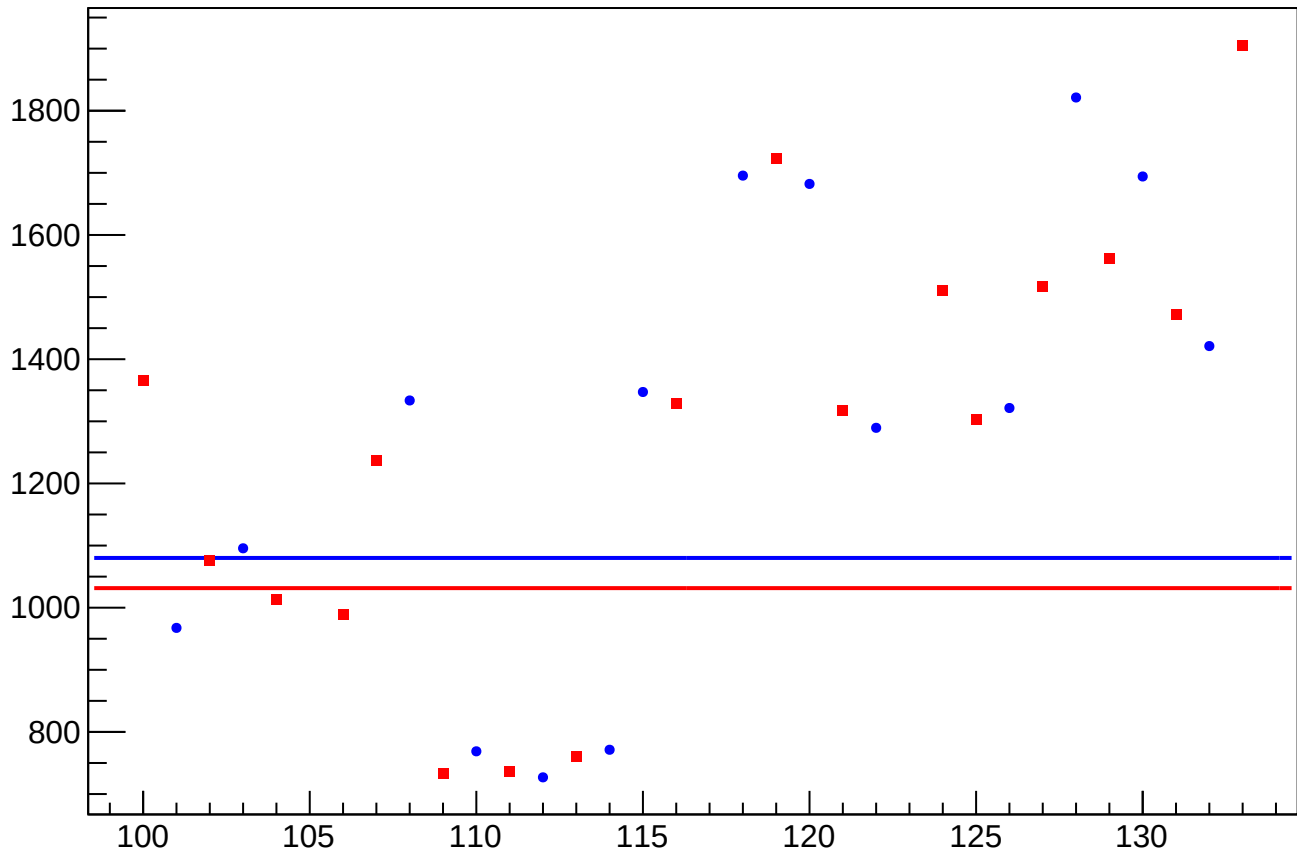
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -456.145+/-310.909  $\chi^2/\text{NDF}$ : 32.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_dit\_correction\_rms vs Slug



Right In: 1080.080+/-0.329  $\chi^2/\text{NDF}$ : 1074995.3/13

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

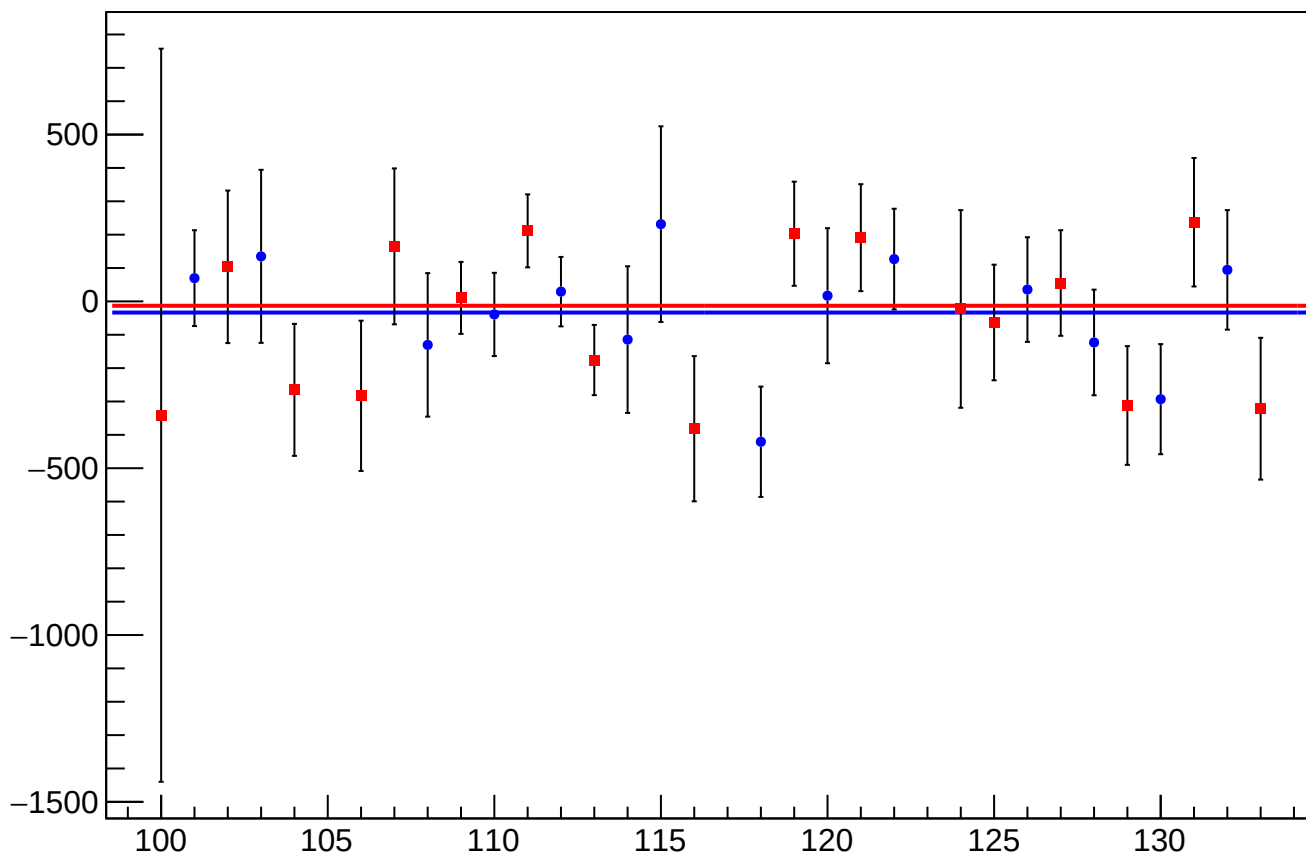
Right Out: 1031.493+/-0.295  $\chi^2/\text{NDF}$ : 1228182.1/16

All: 1053.132+/-0.220  $\chi^2/\text{NDF}$ : 2315242.6/30

- 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\_3748\_avg\_mean vs Slug



Right In: -33.434+/-43.554  $\chi^2/\text{NDF}$ : 12.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13.067+/-40.501  $\chi^2/\text{NDF}$ : 23.9/16

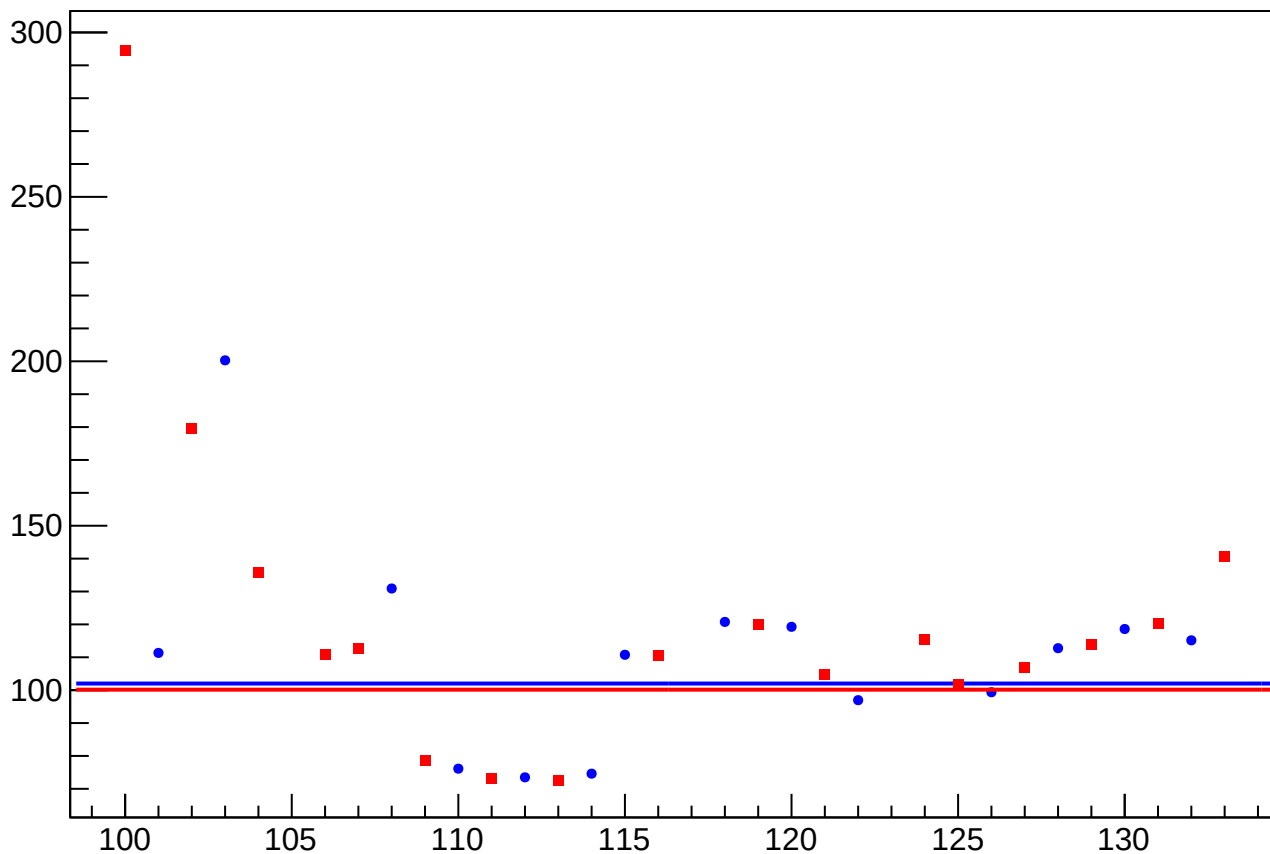
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -22.512+/-29.659  $\chi^2/\text{NDF}$ : 36.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 102.017+/-0.031  $\chi^2/\text{NDF}$ : 684183.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 100.153+/-0.029  $\chi^2/\text{NDF}$ : 874969.6/16

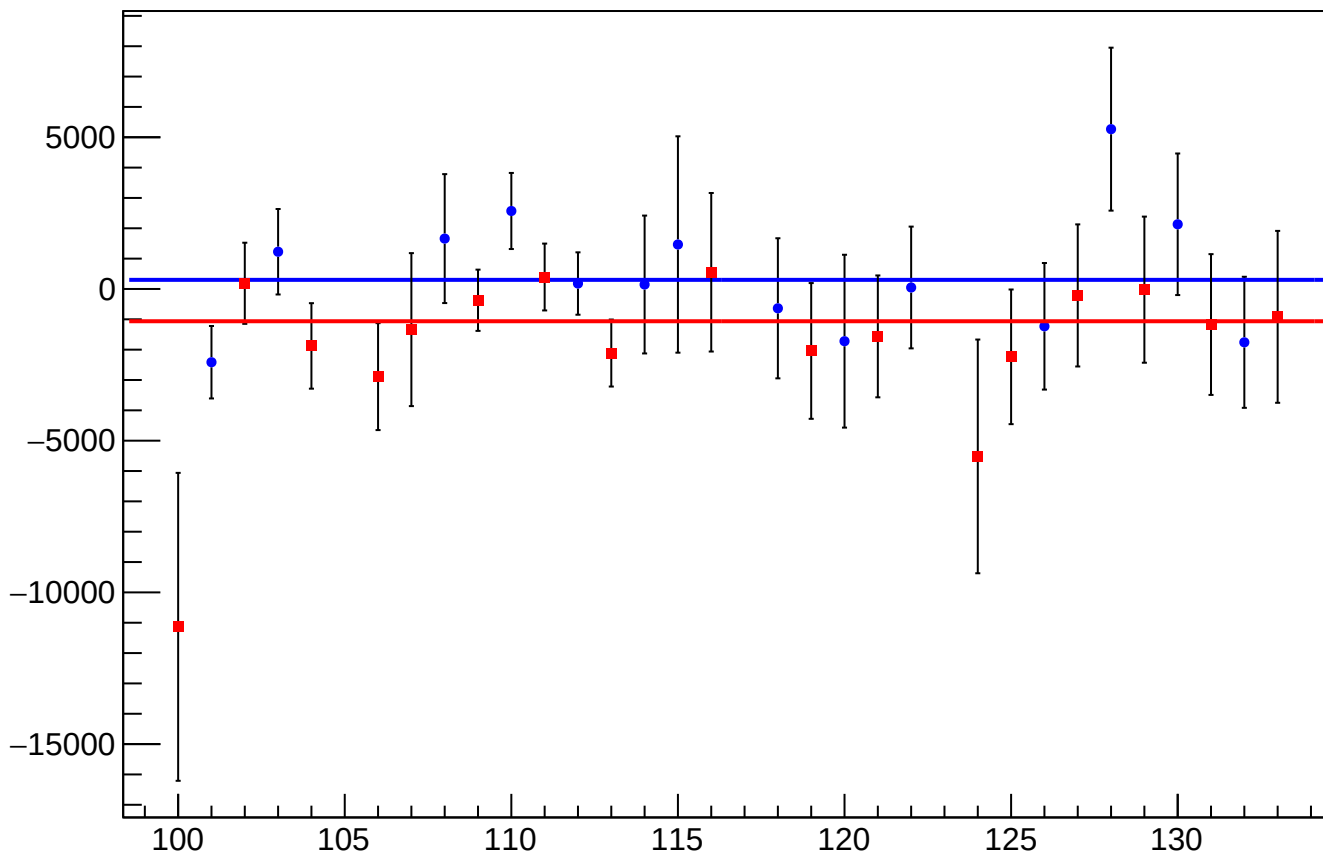
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 101.017+/-0.021  $\chi^2/\text{NDF}$ : 1561117.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 300.444+/-465.882  $\chi^2/\text{NDF}$ : 15.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1063.668+/-417.473  $\chi^2/\text{NDF}$ : 11.9/16

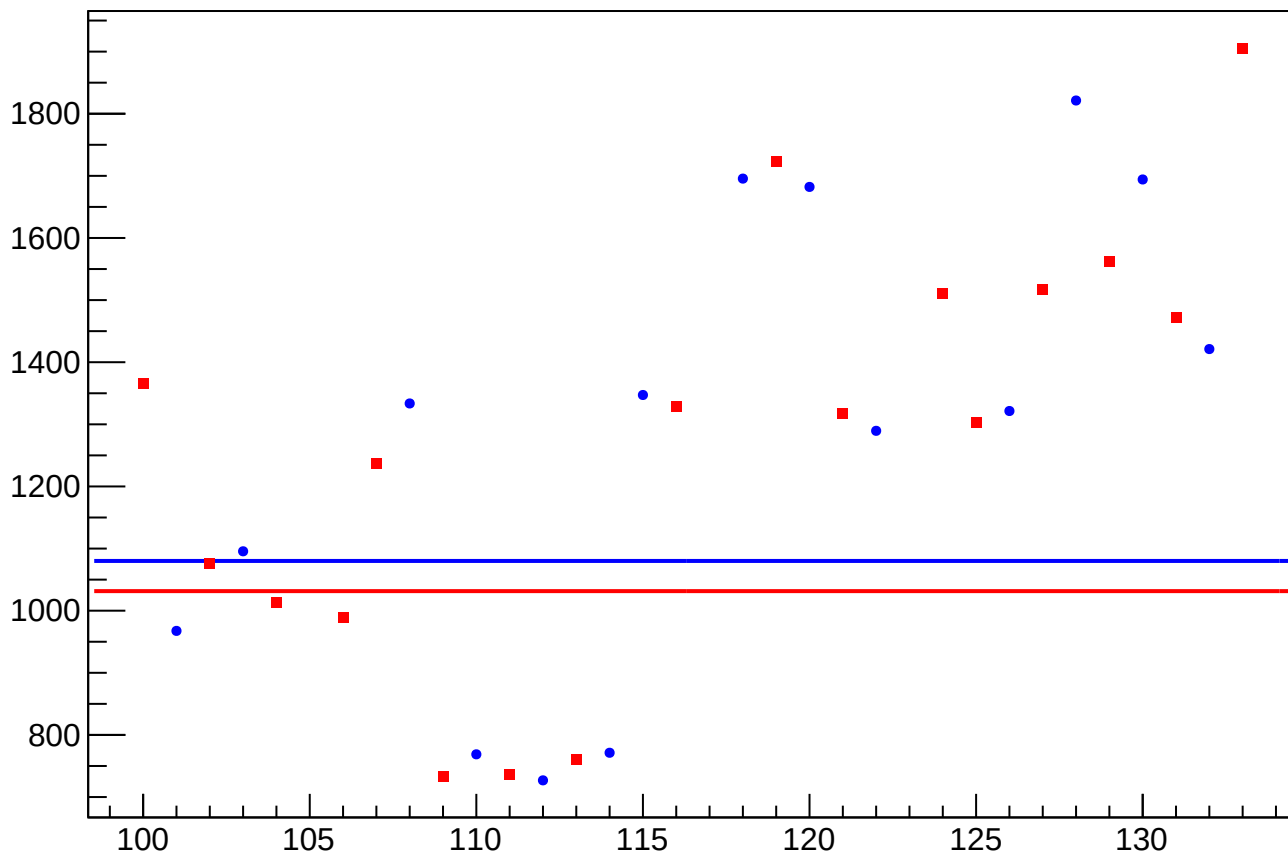
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -456.144+/-310.909  $\chi^2/\text{NDF}$ : 32.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1080.078 $\pm$ 0.329  $\chi^2$ /NDF: 1075001.3/13

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

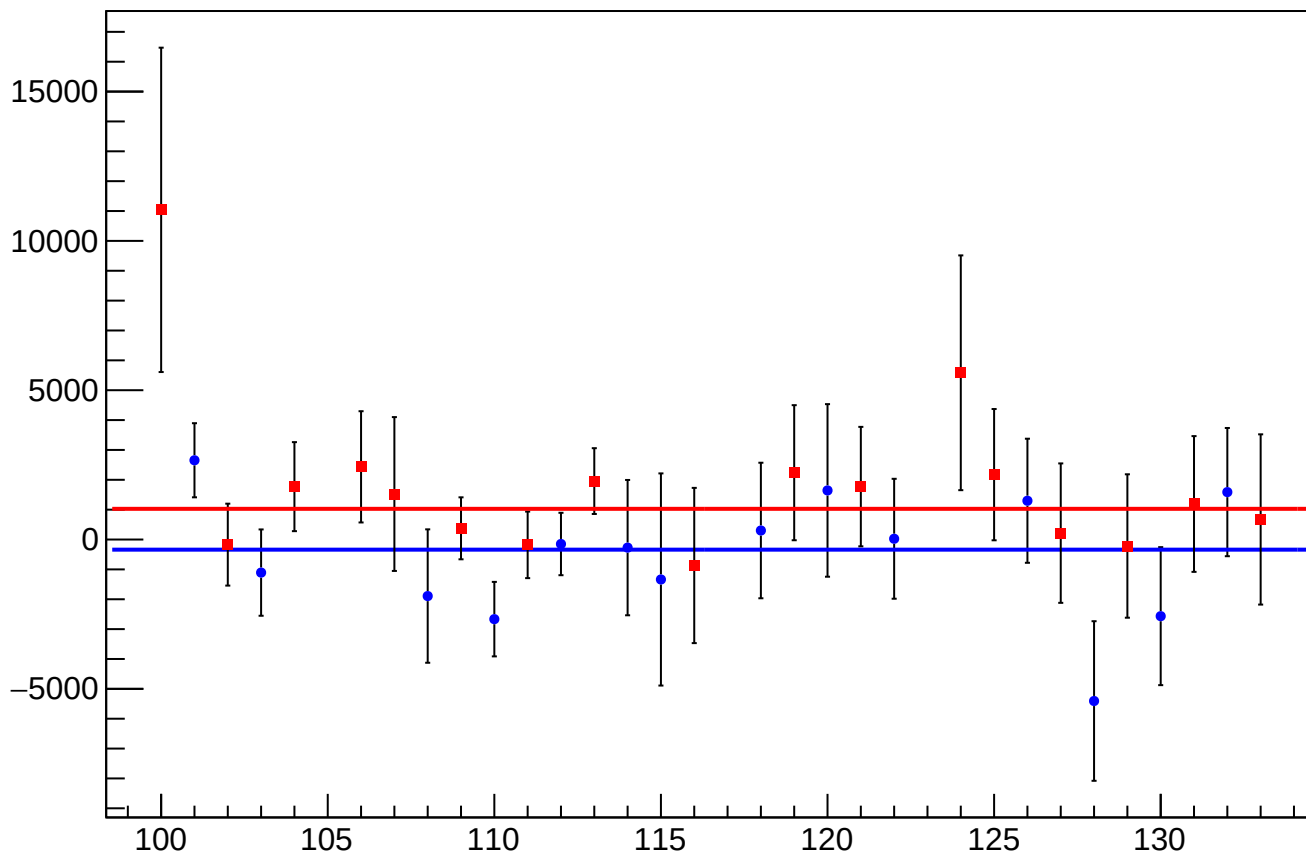
Right Out: 1031.491 $\pm$ 0.295  $\chi^2$ /NDF: 1228184.6/16

All: 1053.130 $\pm$ 0.220  $\chi^2$ /NDF: 2315250.9/30

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_3748\_avg\_mean vs Slug



Right In: -339.204+/-471.428  $\chi^2/\text{NDF}$ : 16.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1028.063+/-424.394  $\chi^2/\text{NDF}$ : 10.3/16

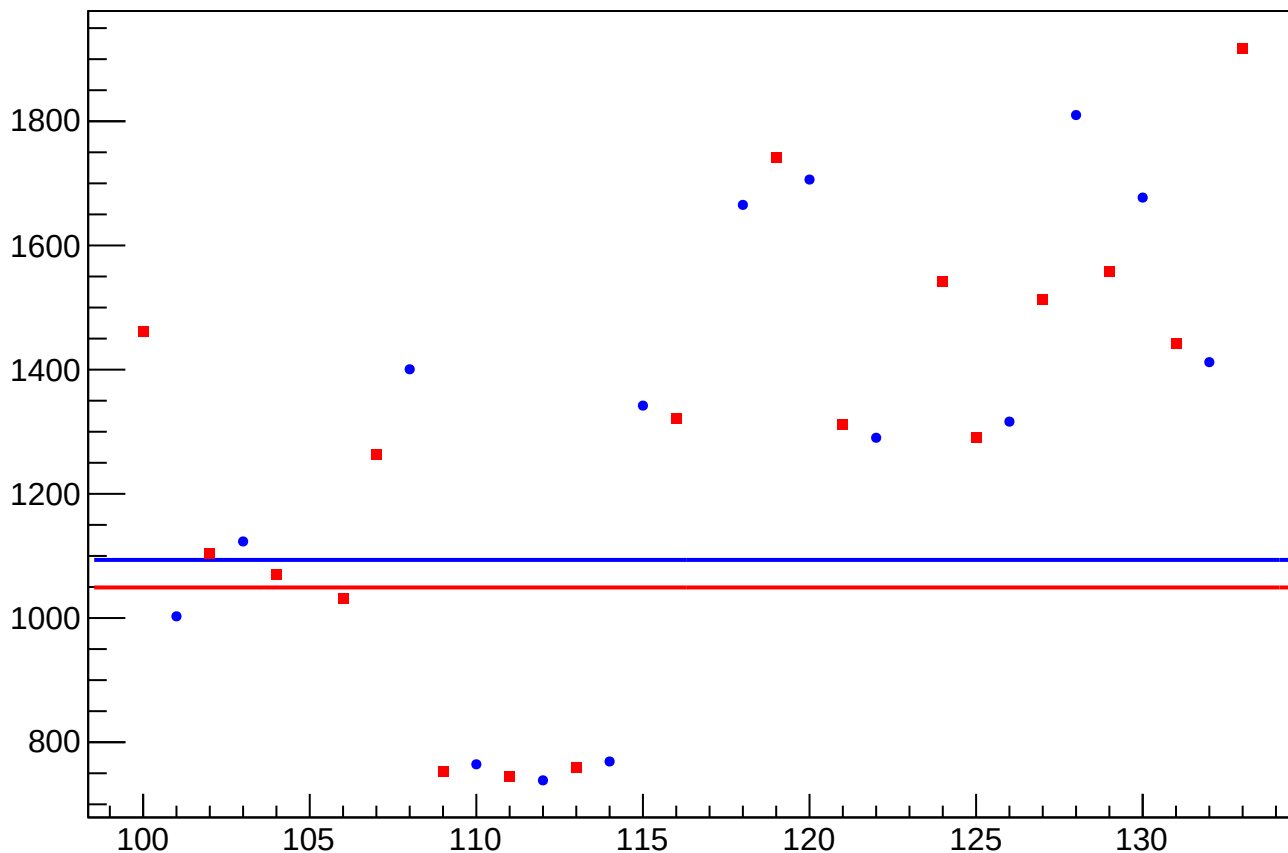
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 416.018+/-315.413  $\chi^2/\text{NDF}$ : 31.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3748\_avg\_rms vs Slug



Right In: 1093.595+/-0.333  $\chi^2/\text{NDF}$ : 1044705.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1049.226+/-0.300  $\chi^2/\text{NDF}$ : 1192703.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

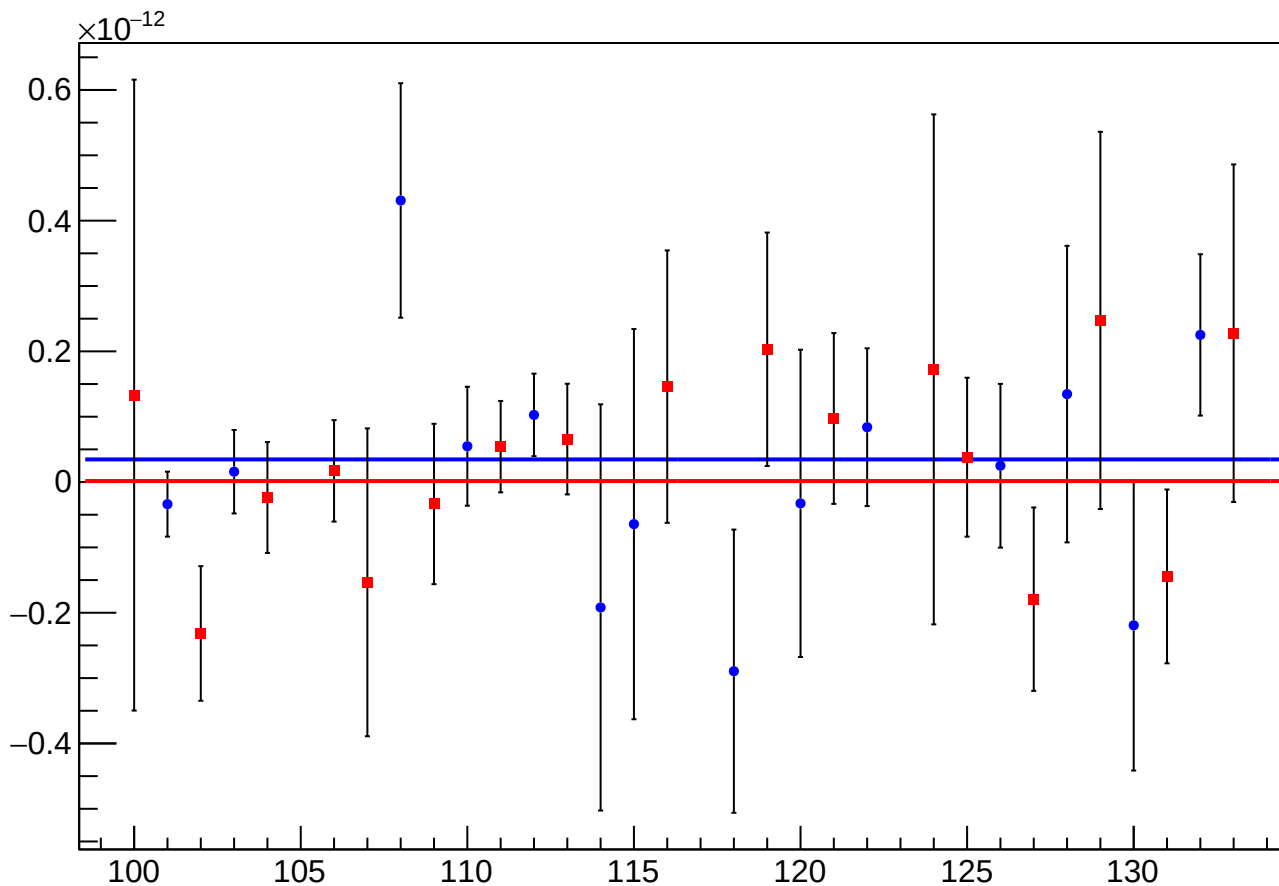
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1069.087+/-0.223  $\chi^2/\text{NDF}$ : 2247194.2/30

- 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: 15.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.9/16

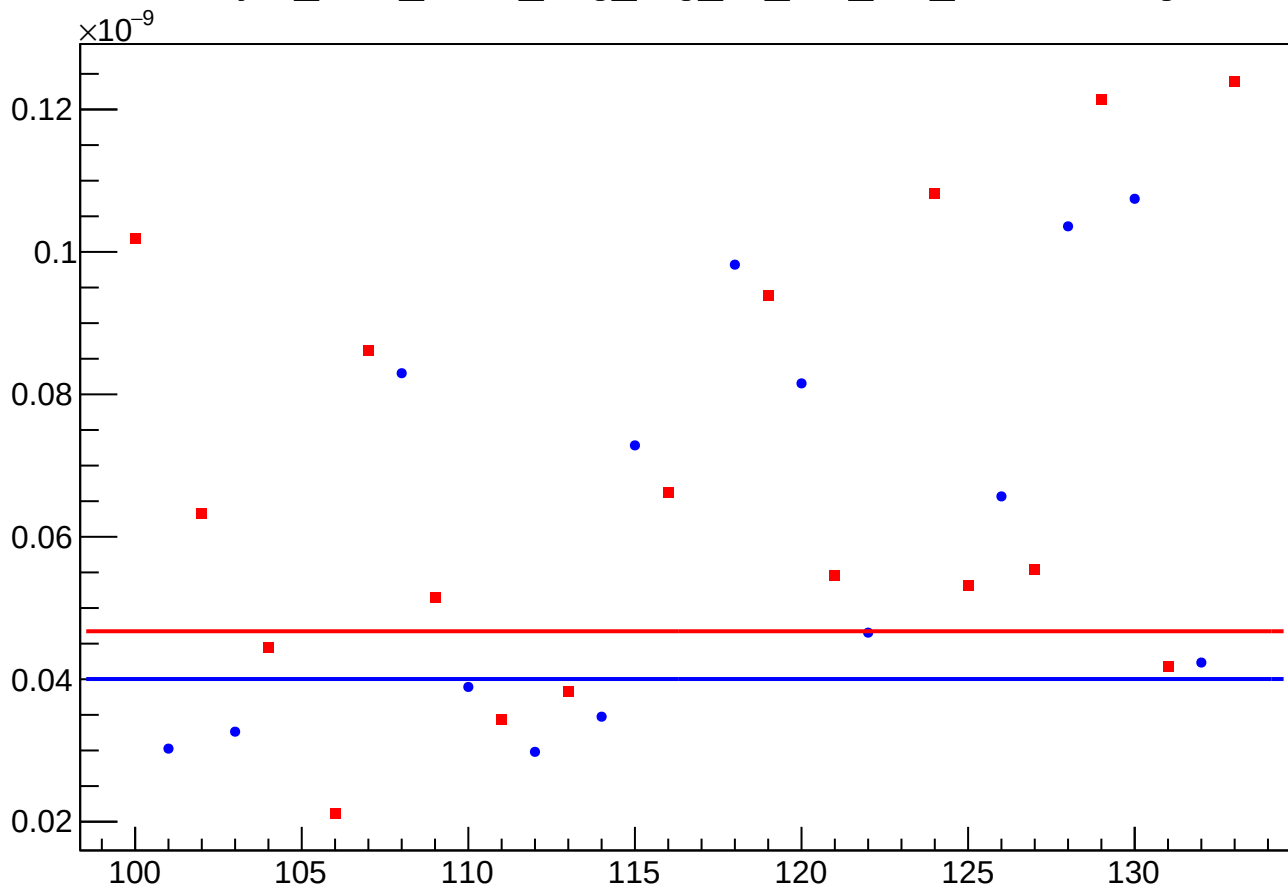
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 29.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 933958.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 979735.3/16

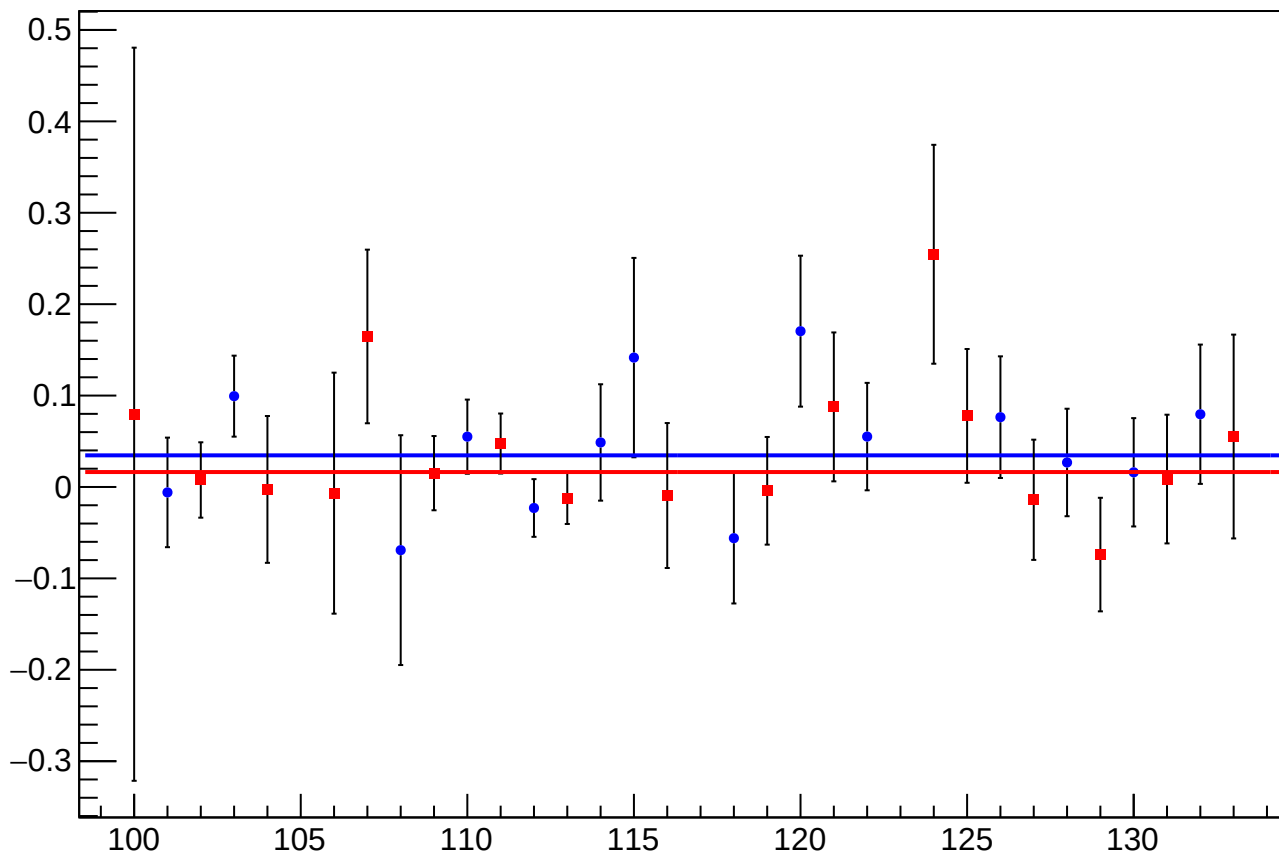
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1969652.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.035 $\pm$ 0.015  $\chi^2$ /NDF: 13.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.016 $\pm$ 0.014  $\chi^2$ /NDF: 12.6/16

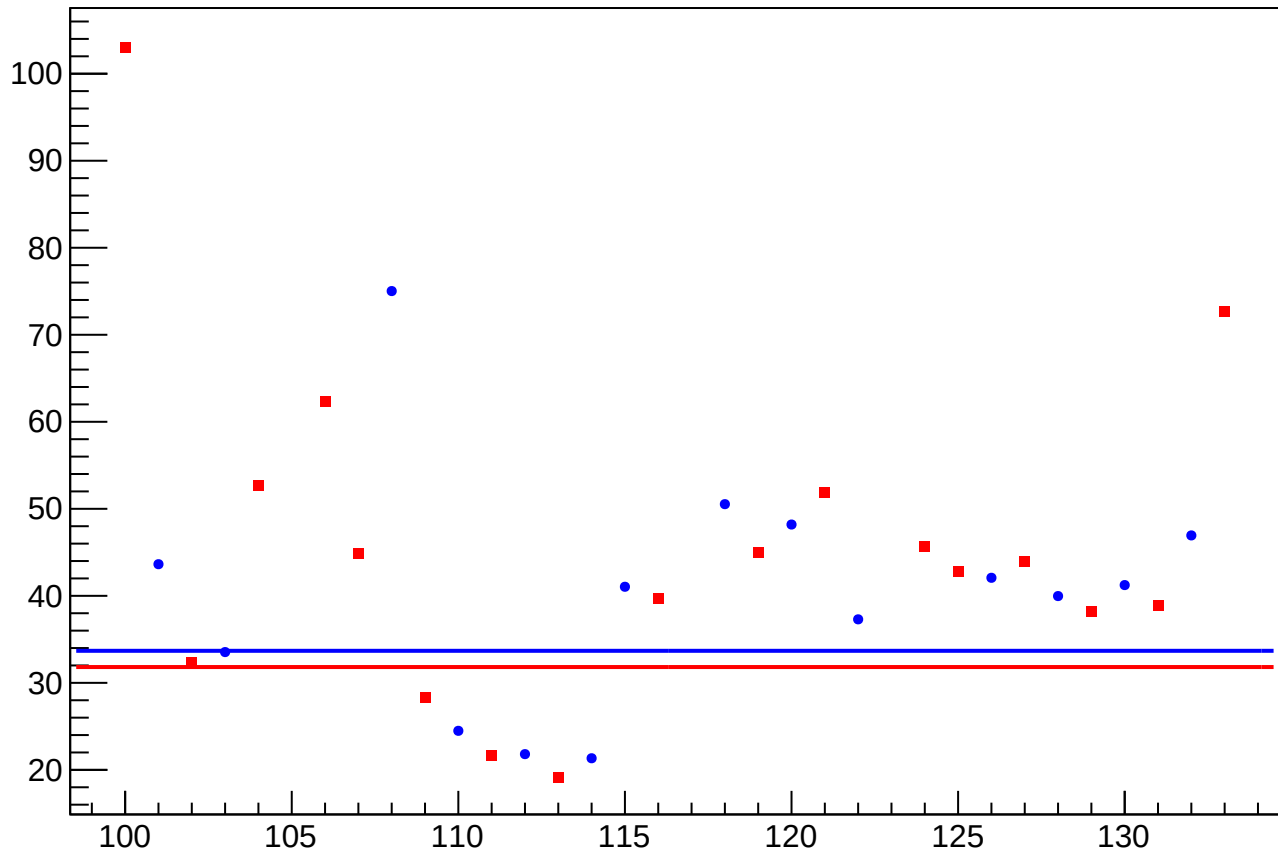
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.025 $\pm$ 0.010  $\chi^2$ /NDF: 26.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 33.683+/-0.011  $\chi^2/\text{NDF}$ : 1069962.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.817+/-0.010  $\chi^2/\text{NDF}$ : 1642359.8/16

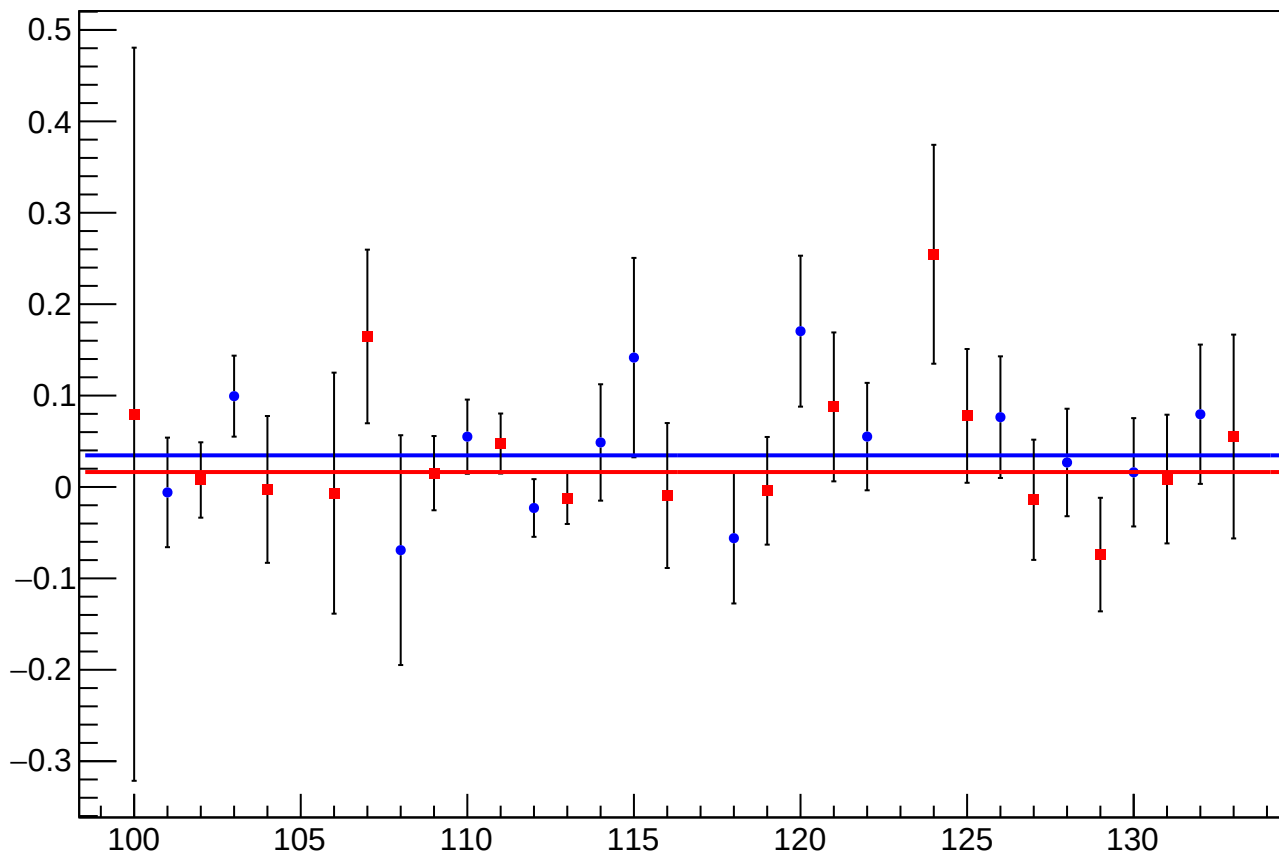
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.661+/-0.007  $\chi^2/\text{NDF}$ : 2729087.3/30

- 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: 0.035+/-0.015  $\chi^2/\text{NDF}$ : 13.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.014  $\chi^2/\text{NDF}$ : 12.6/16

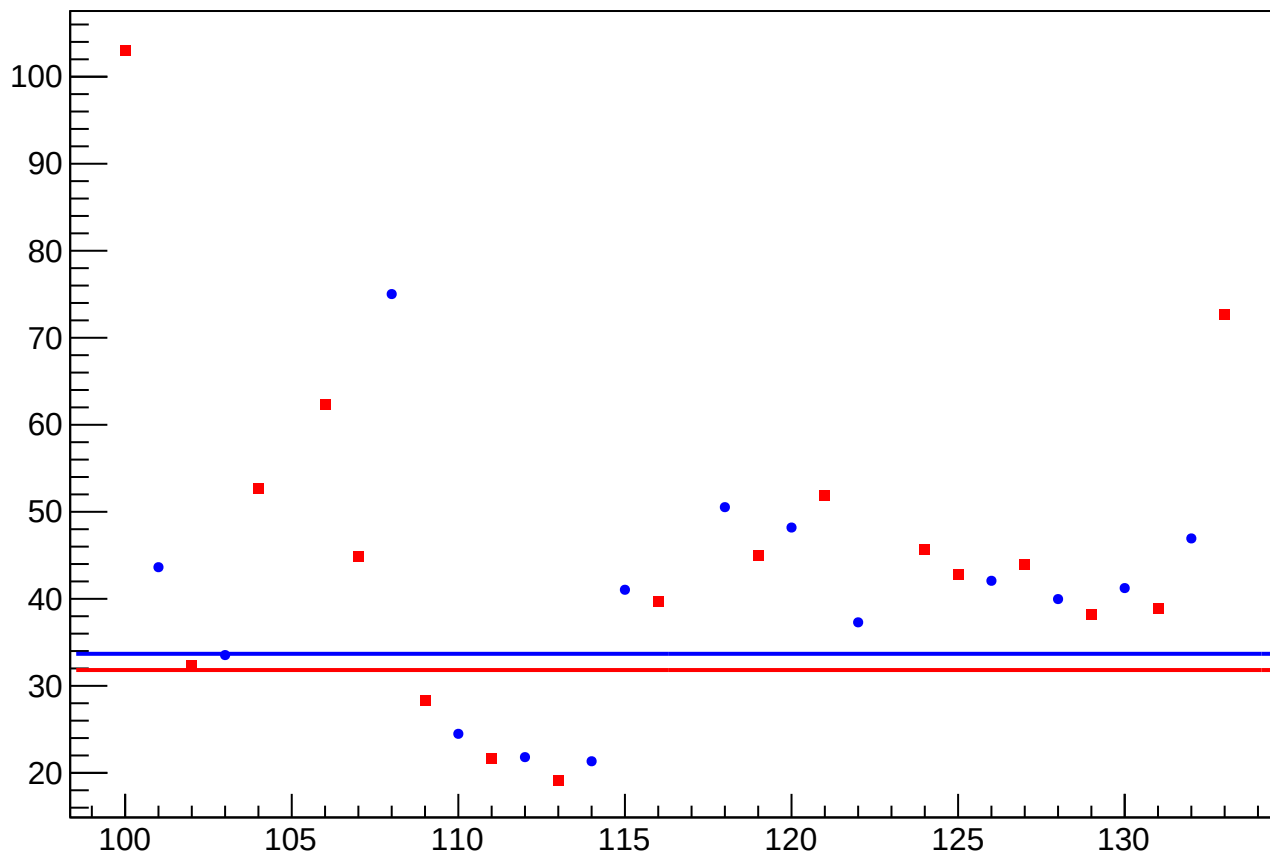
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.025+/-0.010  $\chi^2/\text{NDF}$ : 26.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3748\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 33.683+/-0.011  $\chi^2/\text{NDF}$ : 1069962.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.817+/-0.010  $\chi^2/\text{NDF}$ : 1642359.8/16

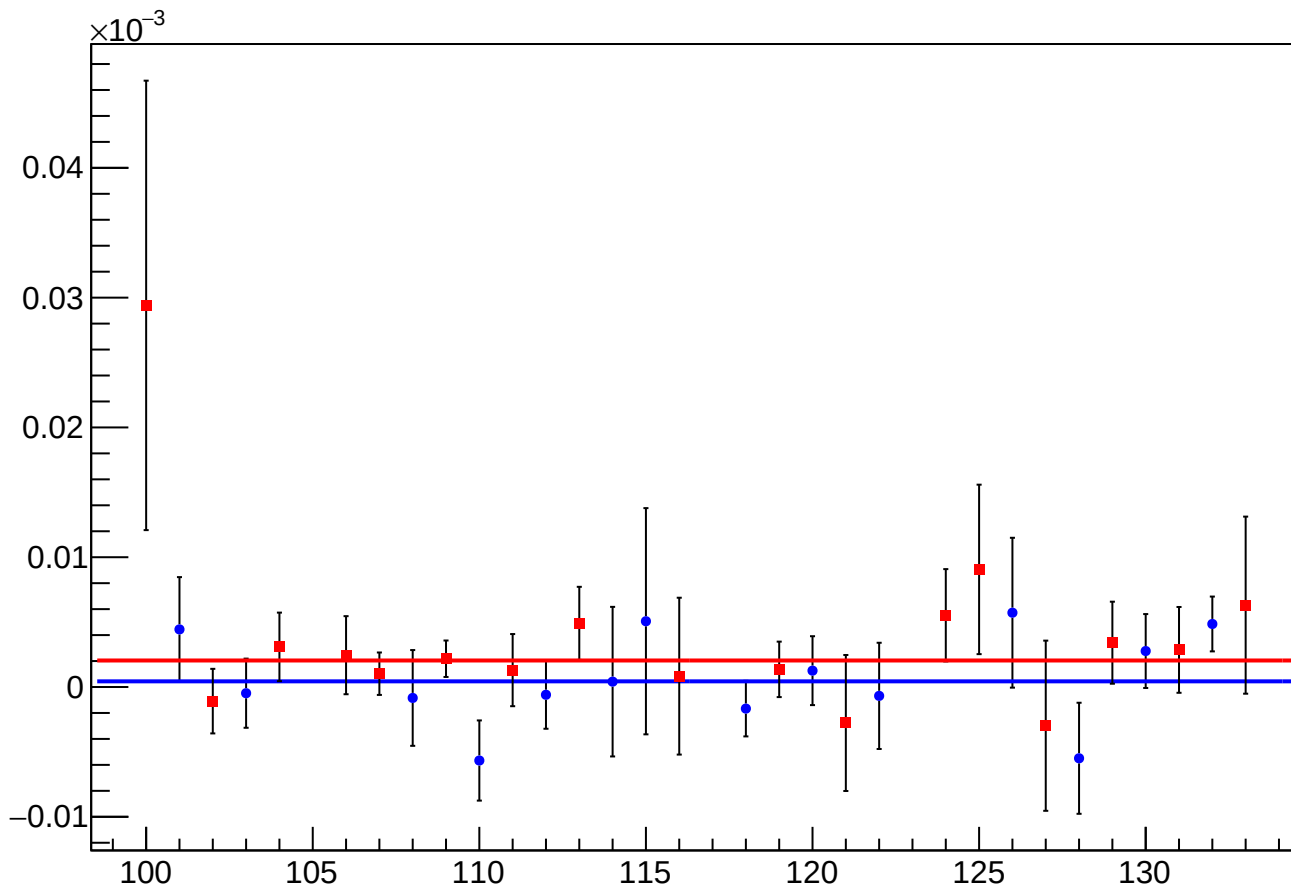
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.661+/-0.007  $\chi^2/\text{NDF}$ : 2729087.3/30

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 14.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.1/16

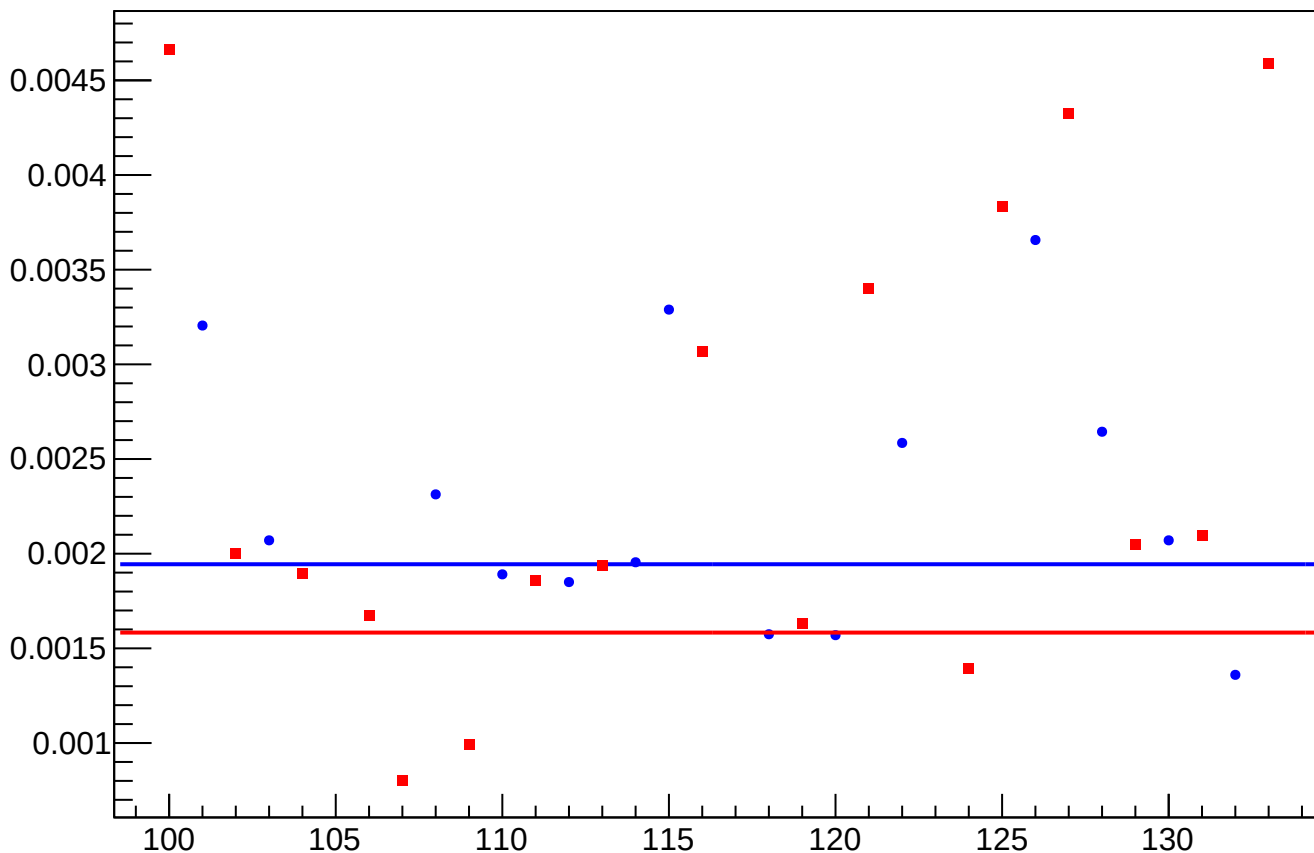
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 26.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 806118.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 2446543.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

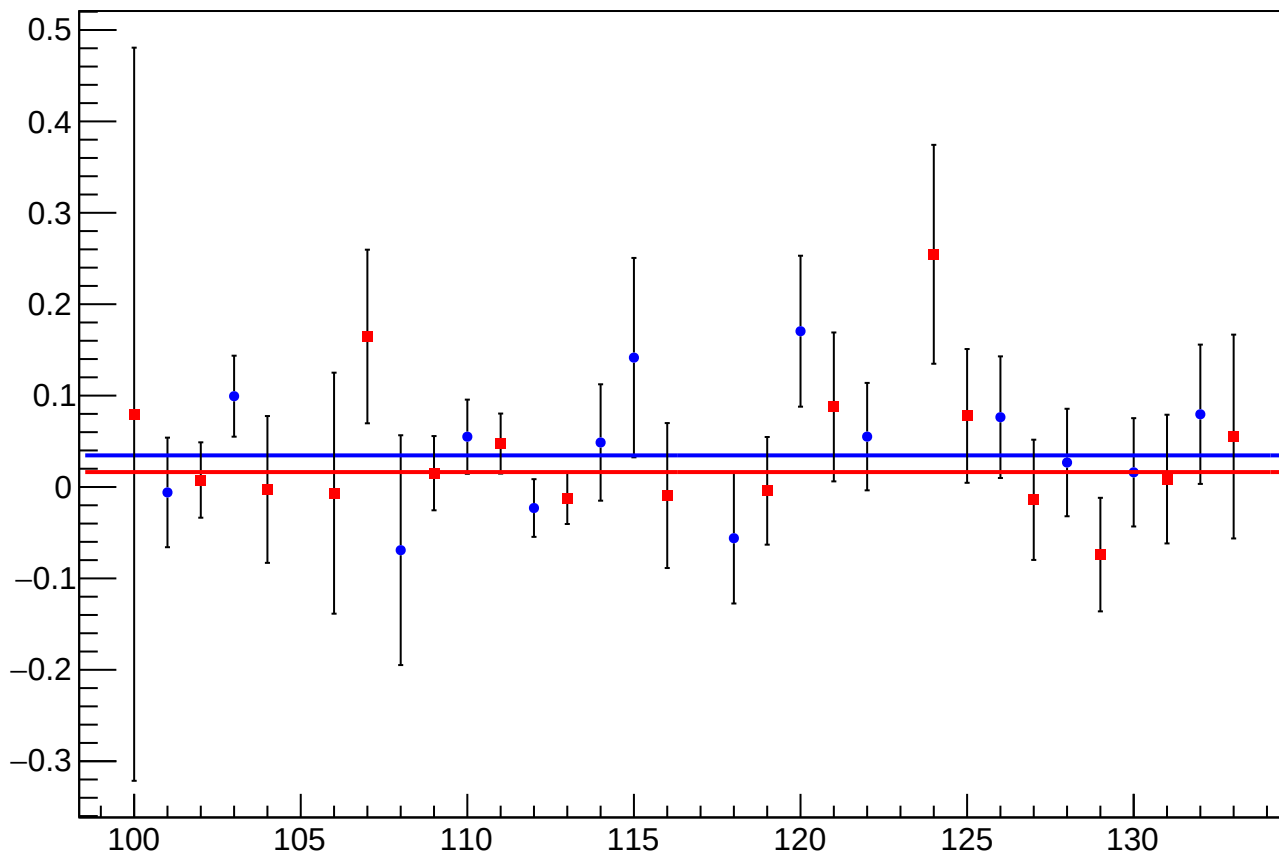
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 3476796.5/30

- 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: 0.035 $\pm$ 0.015  $\chi^2$ /NDF: 13.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.016 $\pm$ 0.014  $\chi^2$ /NDF: 12.6/16

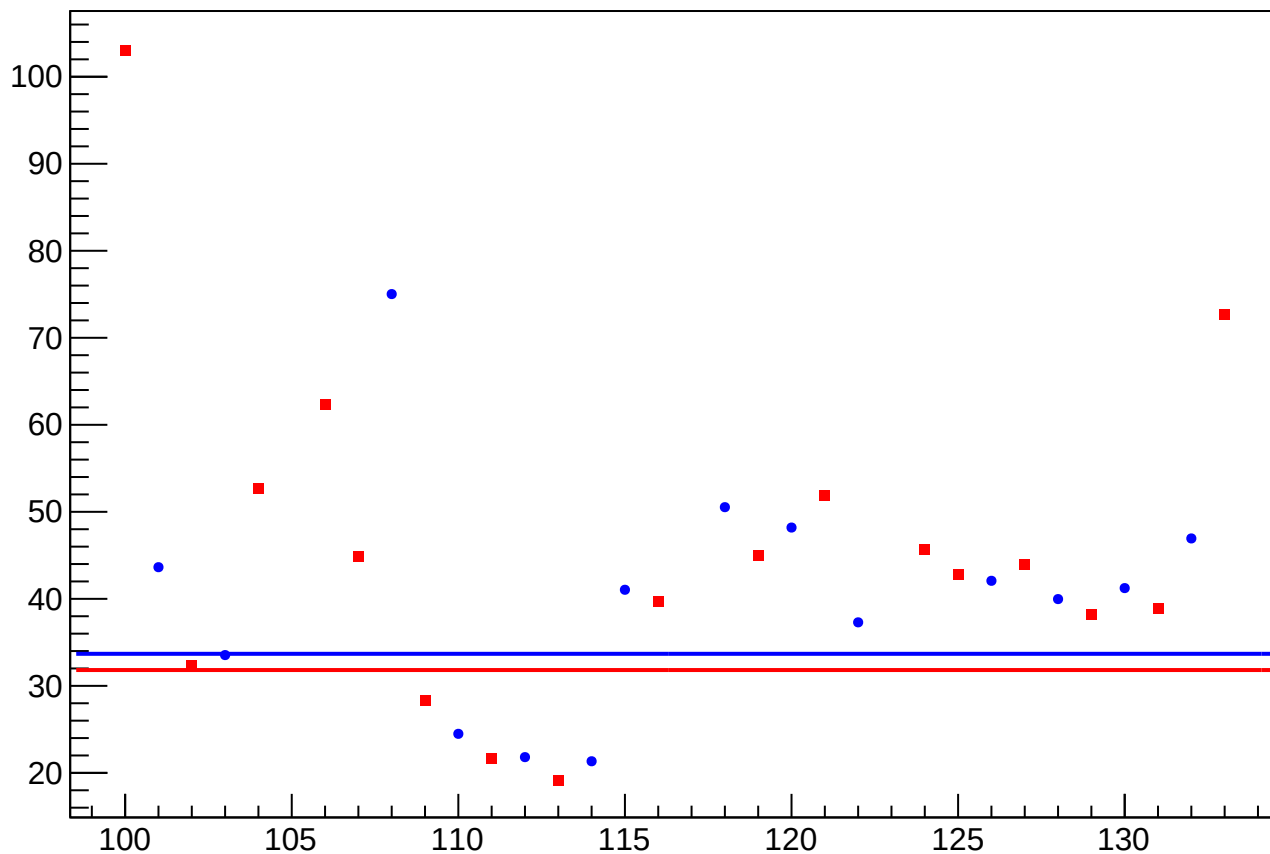
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.025 $\pm$ 0.010  $\chi^2$ /NDF: 26.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 33.683+/-0.011  $\chi^2/\text{NDF}$ : 1069926.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.818+/-0.010  $\chi^2/\text{NDF}$ : 1642329.9/16

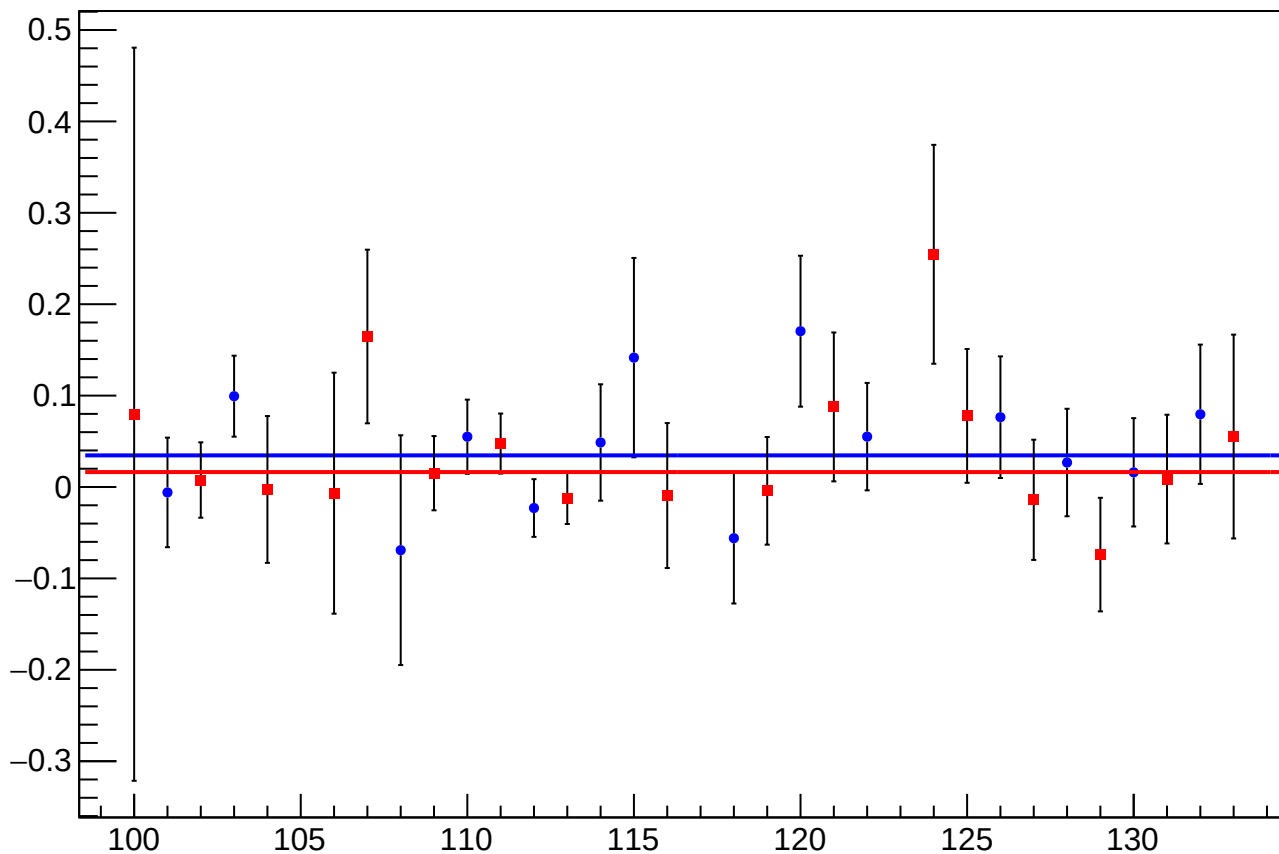
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.661+/-0.007  $\chi^2/\text{NDF}$ : 2729021.6/30

- 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: 0.035 $\pm$ 0.015  $\chi^2$ /NDF: 13.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.016 $\pm$ 0.014  $\chi^2$ /NDF: 12.6/16

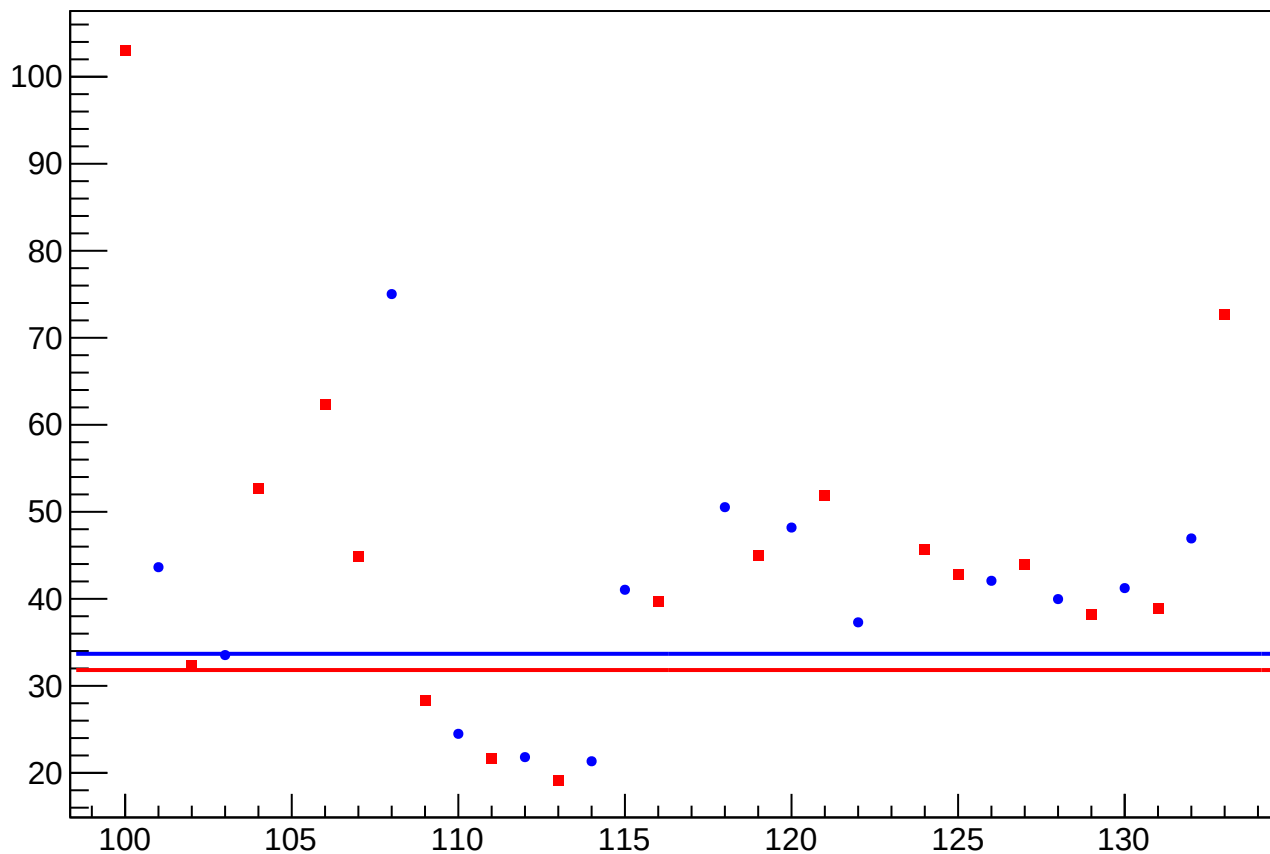
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.025 $\pm$ 0.010  $\chi^2$ /NDF: 26.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 33.683+/-0.011  $\chi^2/\text{NDF}$ : 1069926.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.818+/-0.010  $\chi^2/\text{NDF}$ : 1642329.9/16

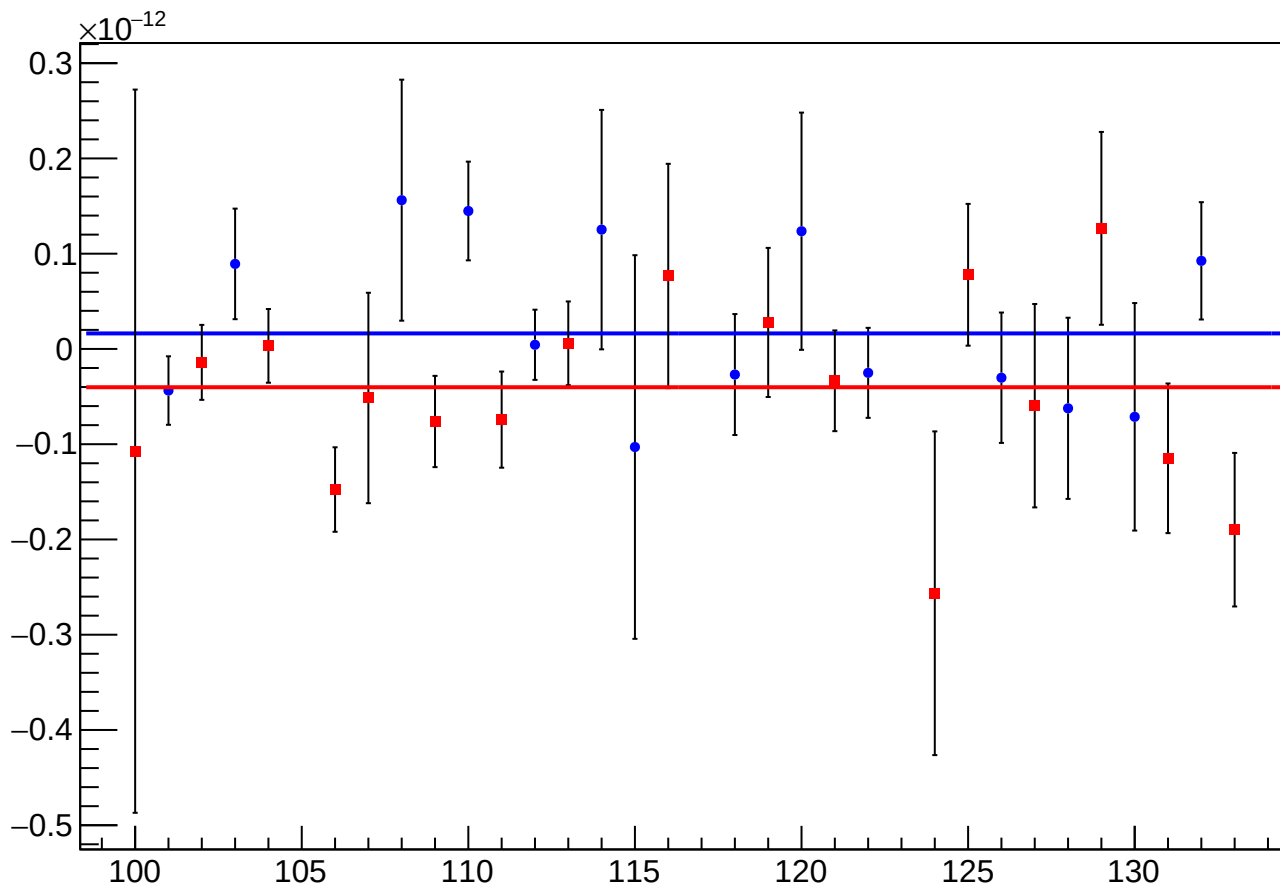
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.661+/-0.007  $\chi^2/\text{NDF}$ : 2729021.6/30

- 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  $\chi^2/\text{NDF}$ : 18.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 22.7/16

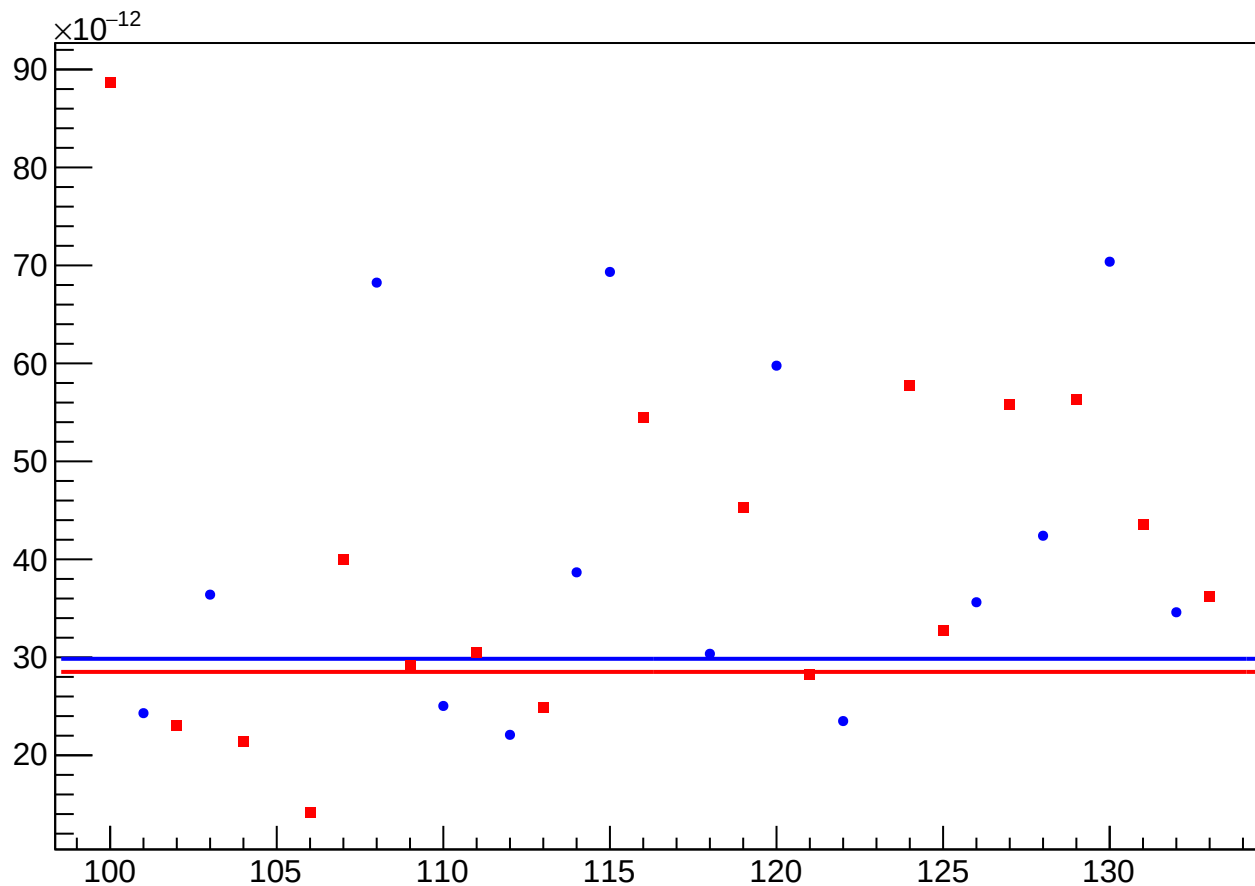
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 47.4/30

- 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  $\chi^2/\text{NDF}$ : 893254.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1033305.8/16

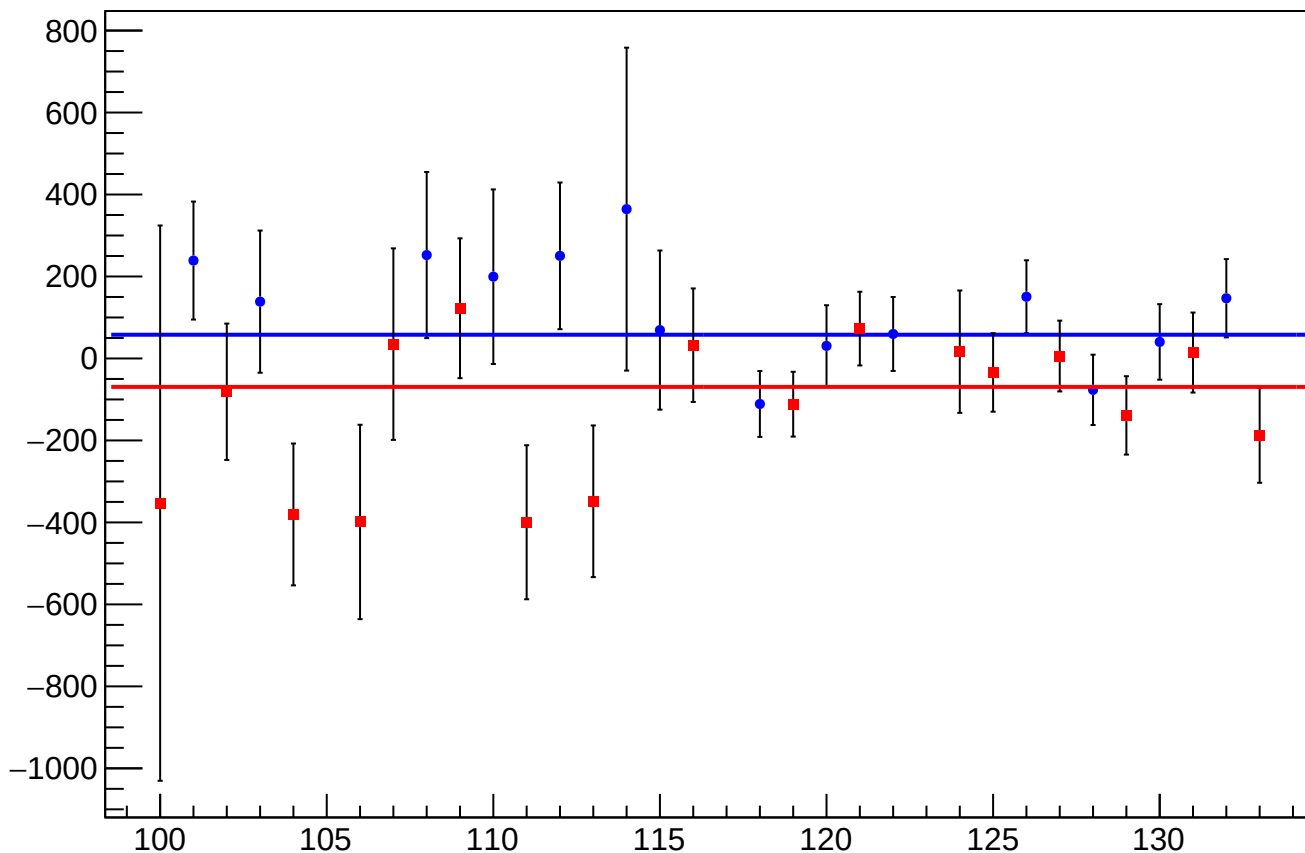
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1933924.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 57.907+/-30.696  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -69.380+/-29.973  $\chi^2/\text{NDF}$ : 19.0/16

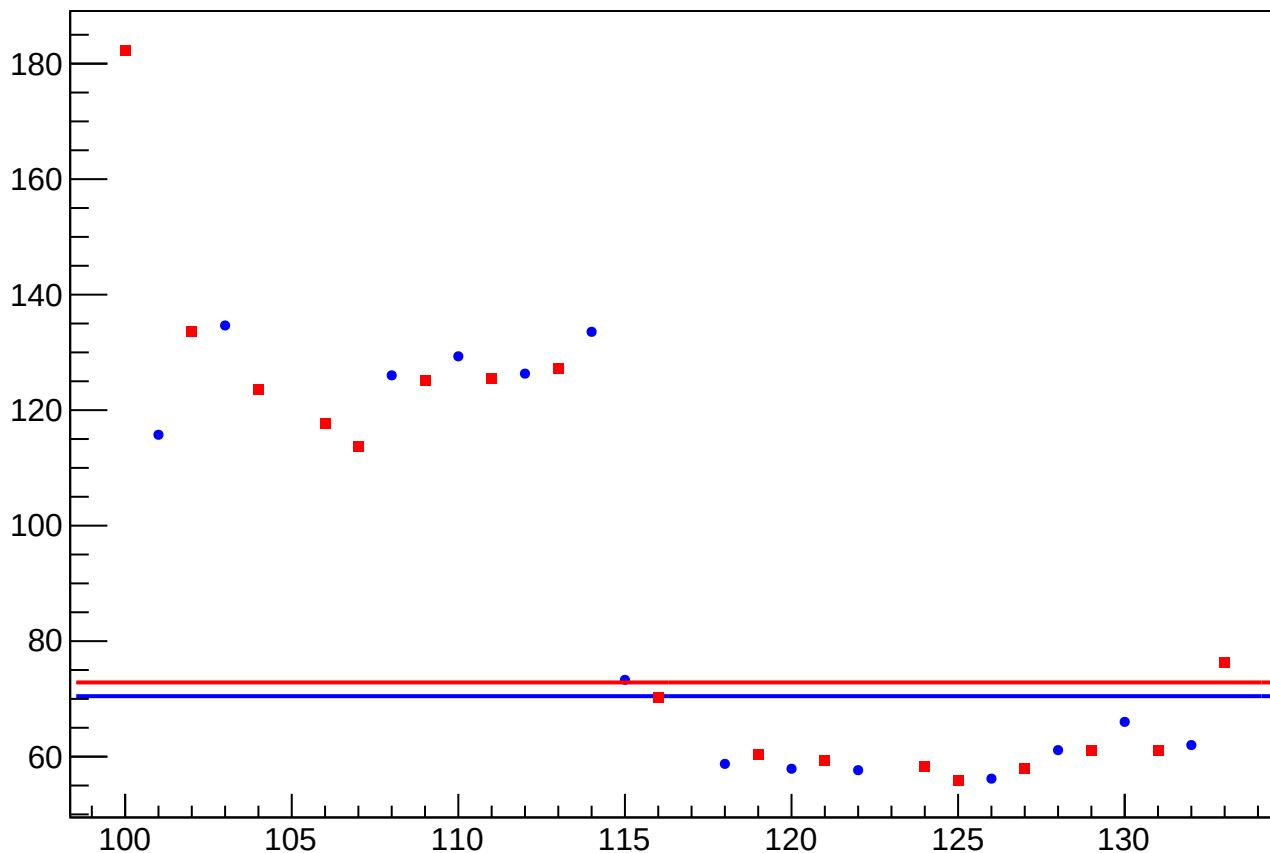
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.251+/-21.445  $\chi^2/\text{NDF}$ : 41.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 70.472+/-0.022  $\chi^2/\text{NDF}$ : 1232126.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 72.847+/-0.021  $\chi^2/\text{NDF}$ : 1438643.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

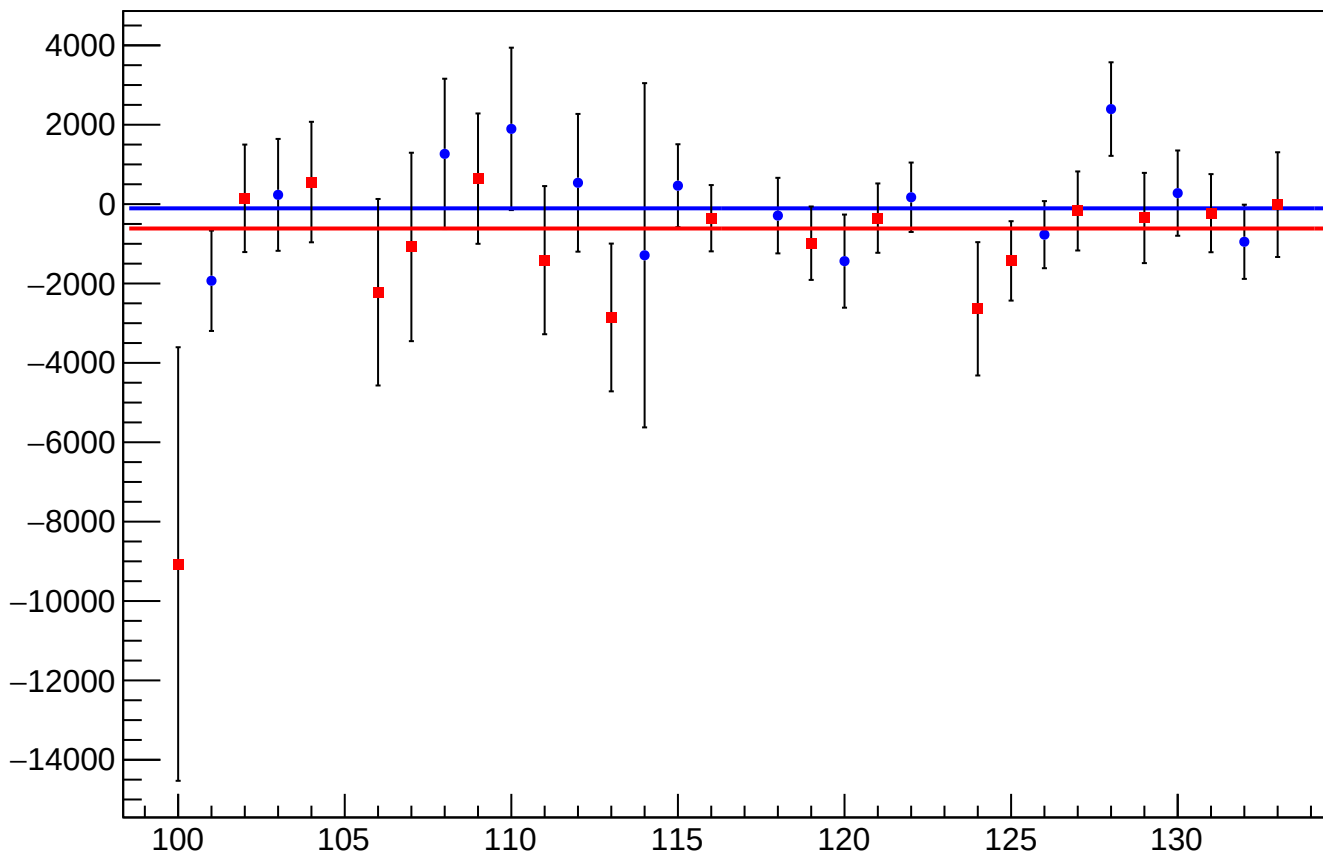
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 71.688+/-0.015  $\chi^2/\text{NDF}$ : 2676898.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1526\_avg\_reg\_correction\_mean vs Slug



Right In: -106.425+/-312.866  $\chi^2$ /NDF: 11.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -614.525+/-301.854  $\chi^2$ /NDF: 9.1/16

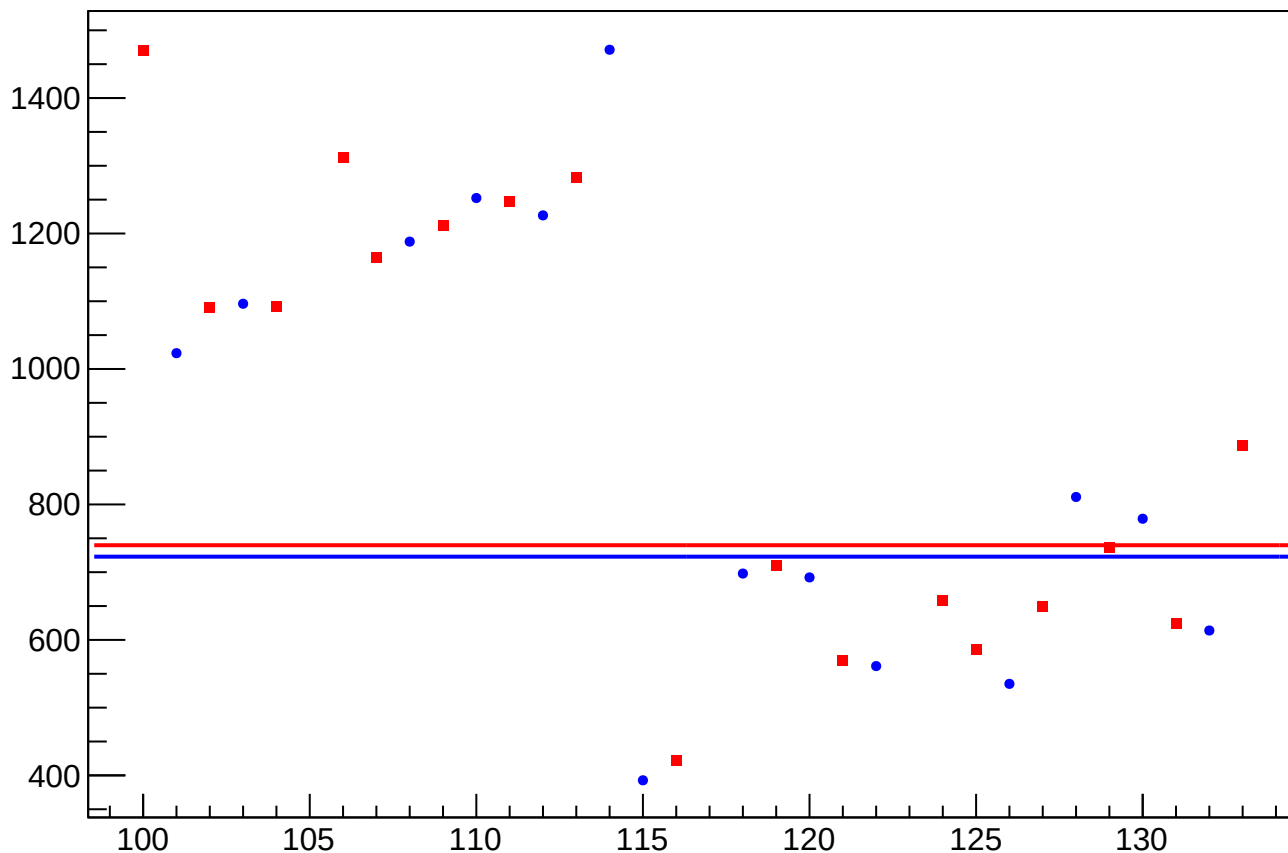
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -369.573+/-217.232  $\chi^2$ /NDF: 22.1/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1526\_avg\_reg\_correction\_rms vs Slug



Right In: 722.928+/-0.221  $\chi^2/\text{NDF}$ : 1149357.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 739.778+/-0.213  $\chi^2/\text{NDF}$ : 1433304.1/16

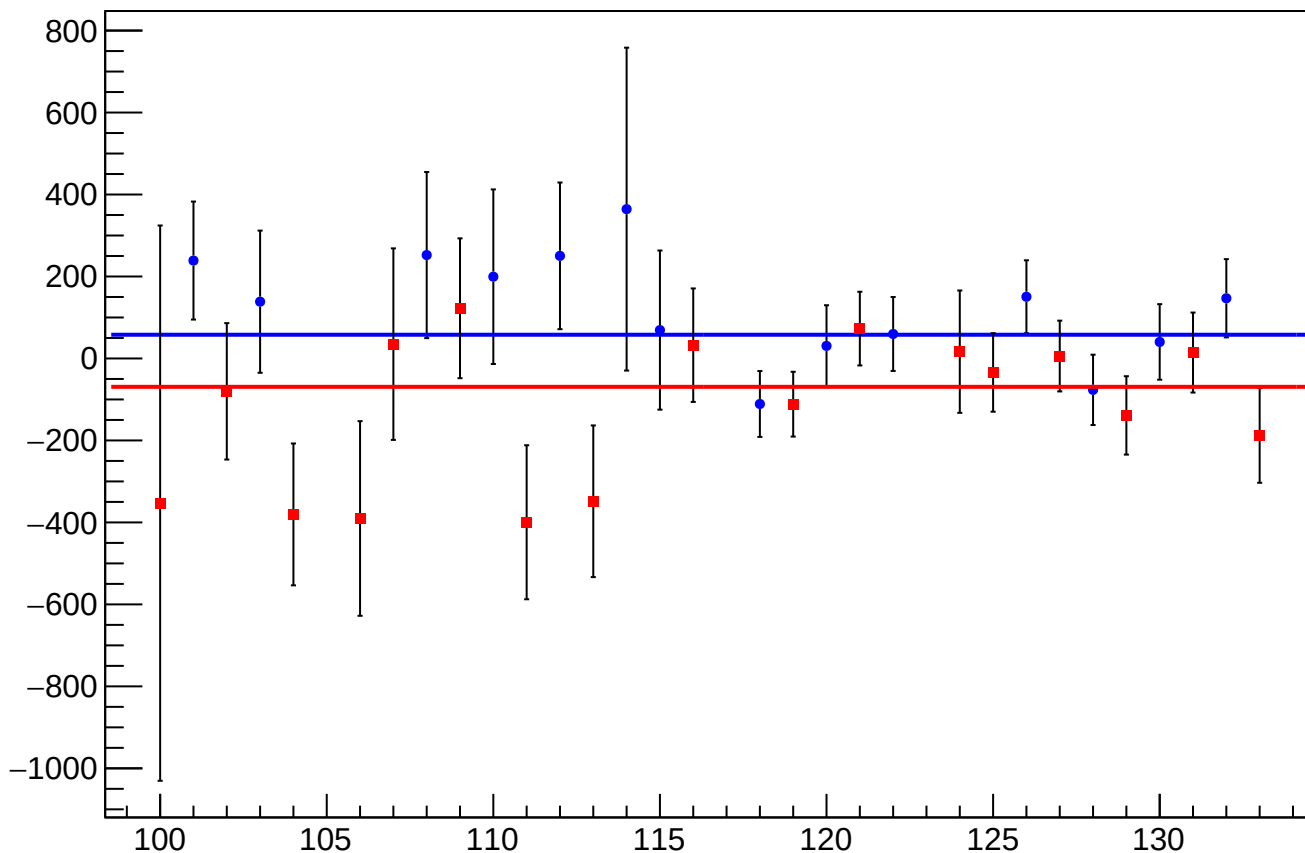
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 731.655+/-0.154  $\chi^2/\text{NDF}$ : 2585666.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 57.897+/-30.696  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -69.192+/-29.975  $\chi^2/\text{NDF}$ : 18.9/16

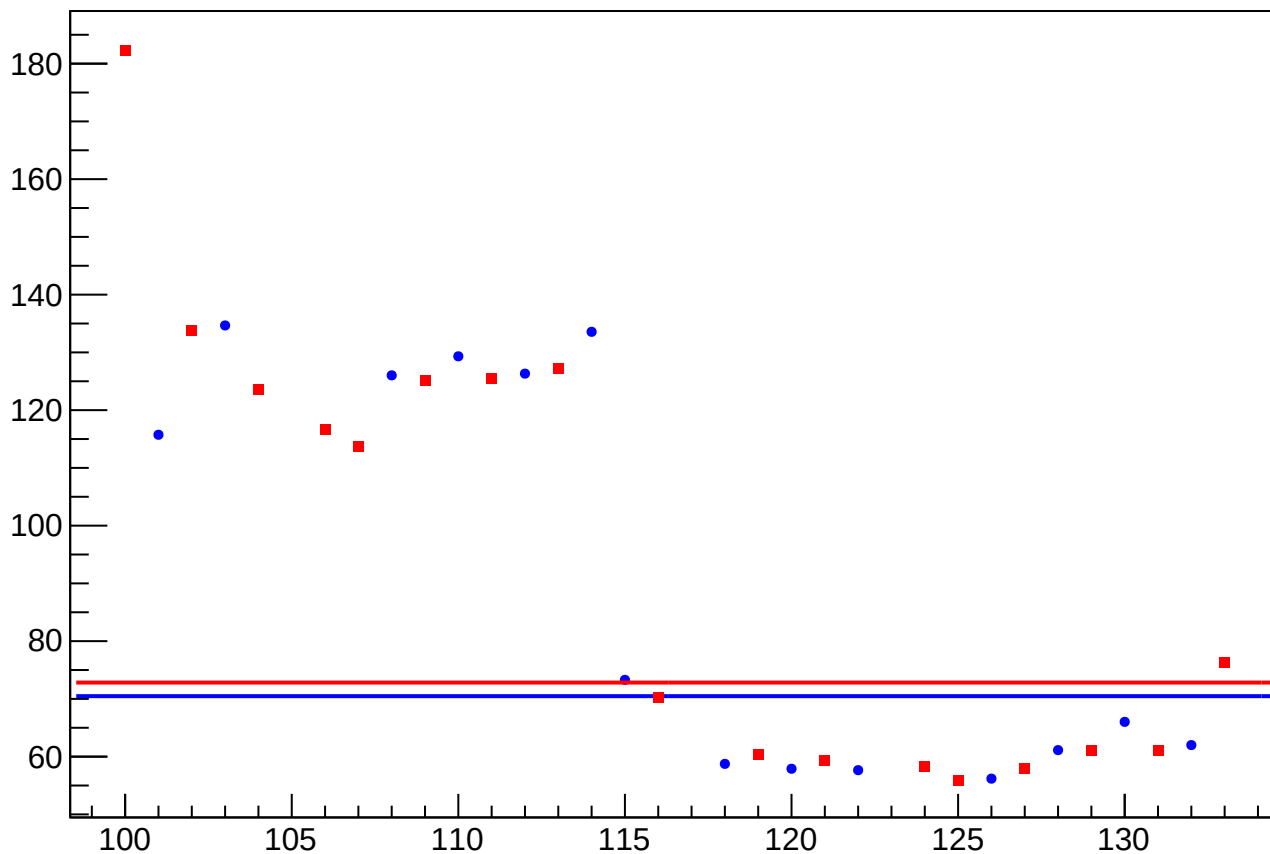
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.158+/-21.446  $\chi^2/\text{NDF}$ : 41.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 70.472+/-0.022  $\chi^2/\text{NDF}$ : 1232128.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 72.829+/-0.021  $\chi^2/\text{NDF}$ : 1435633.0/16

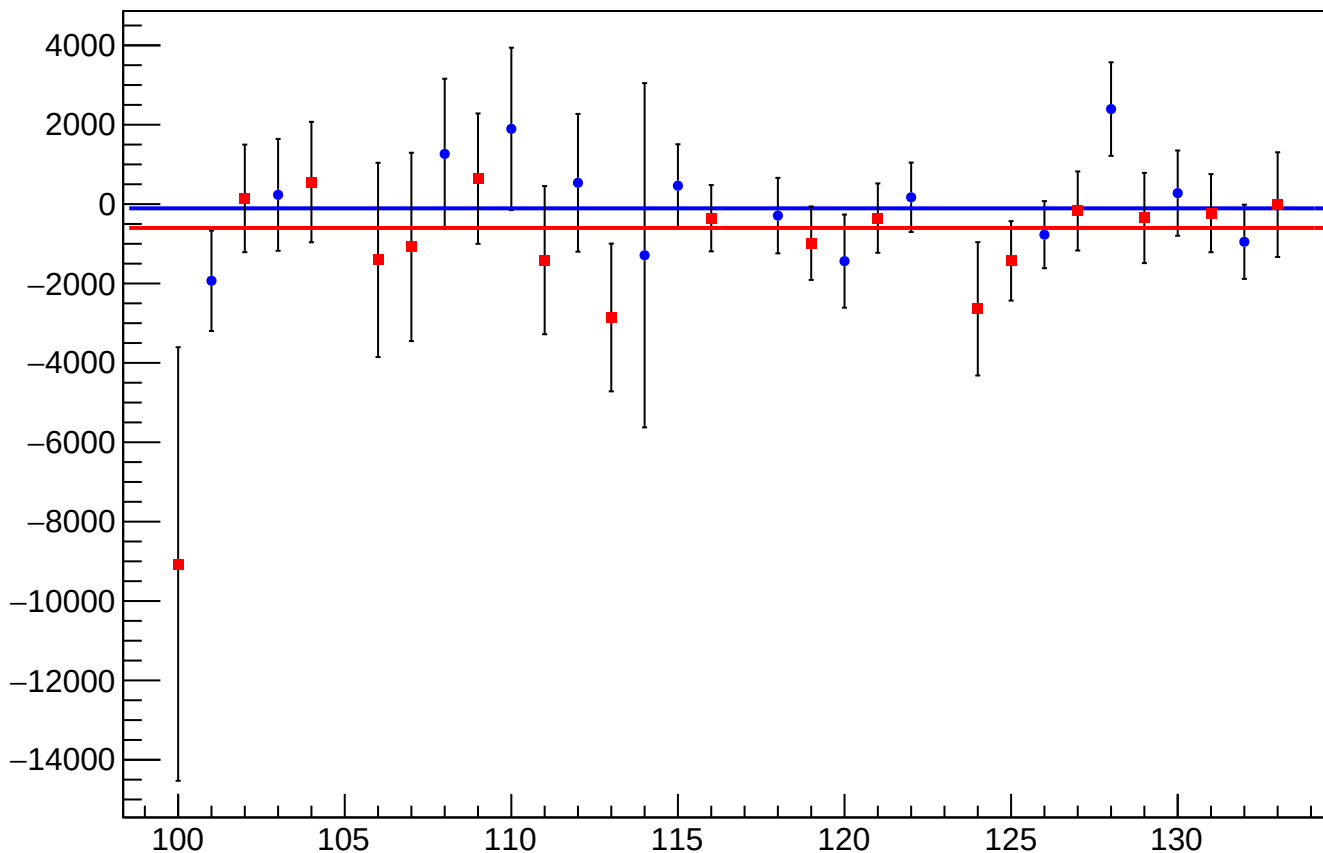
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 71.679+/-0.015  $\chi^2/\text{NDF}$ : 2673799.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_cor\_correction\_mean vs Slug



Right In: -106.396+/-312.866  $\chi^2$ /NDF: 11.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -600.220+/-302.061  $\chi^2$ /NDF: 8.7/16

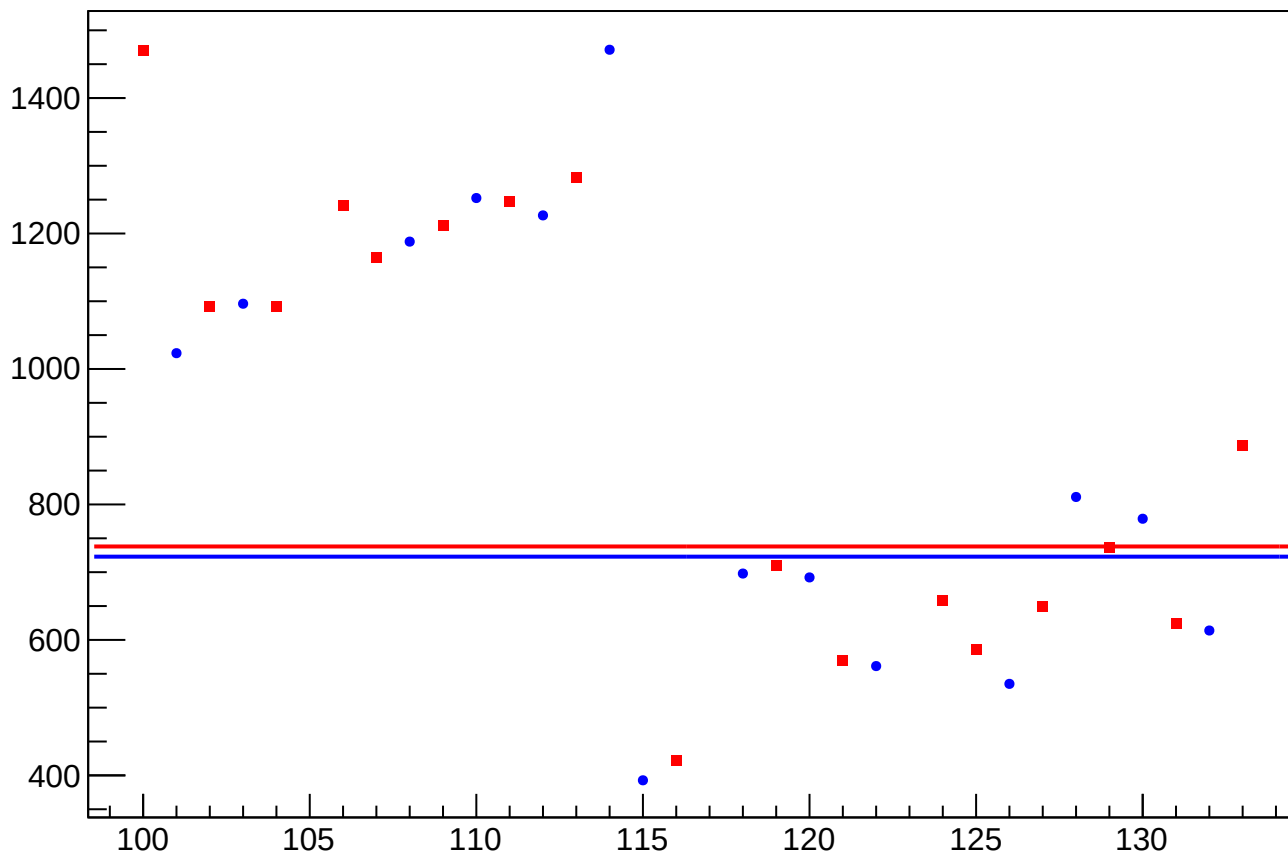
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -361.982+/-217.309  $\chi^2$ /NDF: 21.6/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_cor\_correction\_rms vs Slug



Right In: 722.928+/-0.221  $\chi^2/\text{NDF}$ : 1149393.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 737.951+/-0.214  $\chi^2/\text{NDF}$ : 1398469.4/16

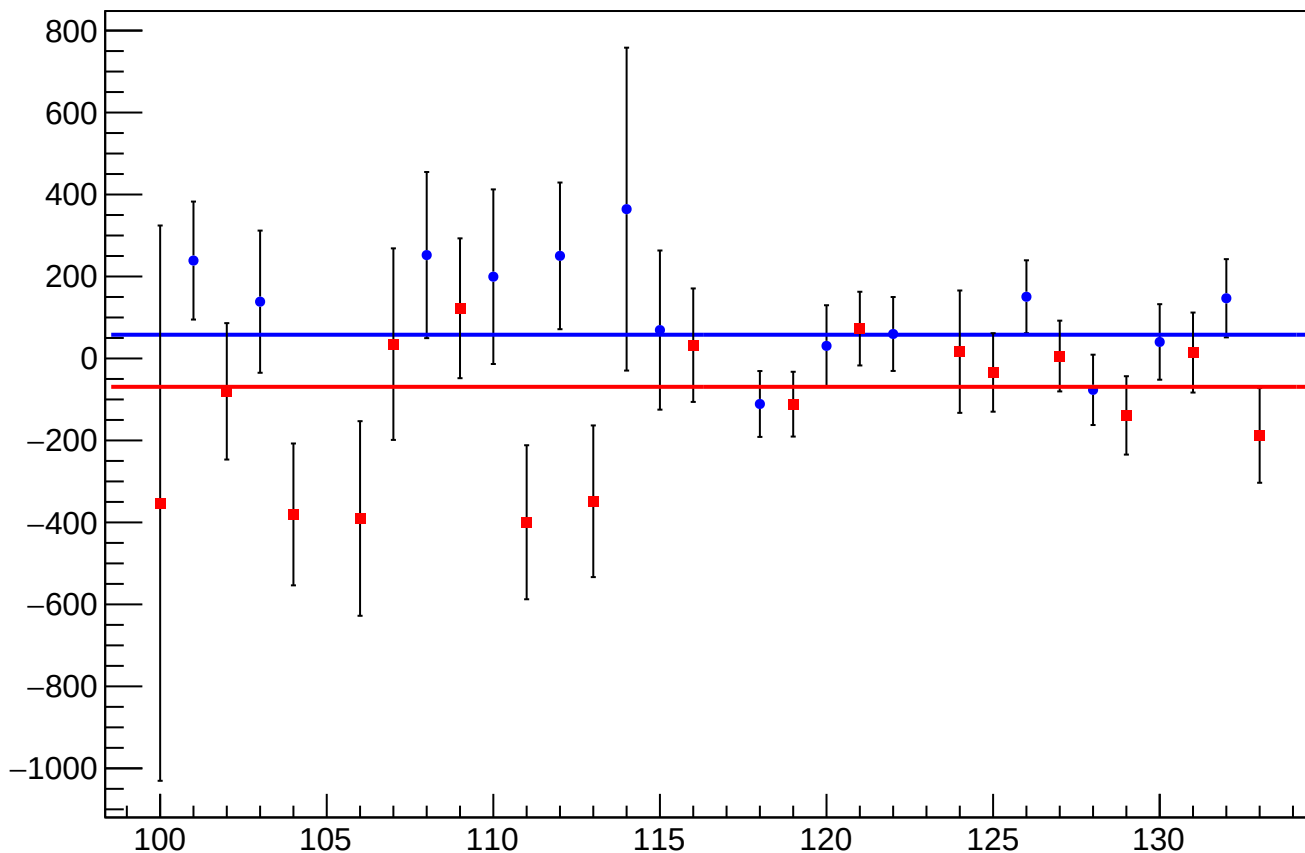
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 730.703+/-0.154  $\chi^2/\text{NDF}$ : 2550249.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 57.897 $\pm$ 30.696  $\chi^2$ /NDF: 13.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -69.192 $\pm$ 29.975  $\chi^2$ /NDF: 18.9/16

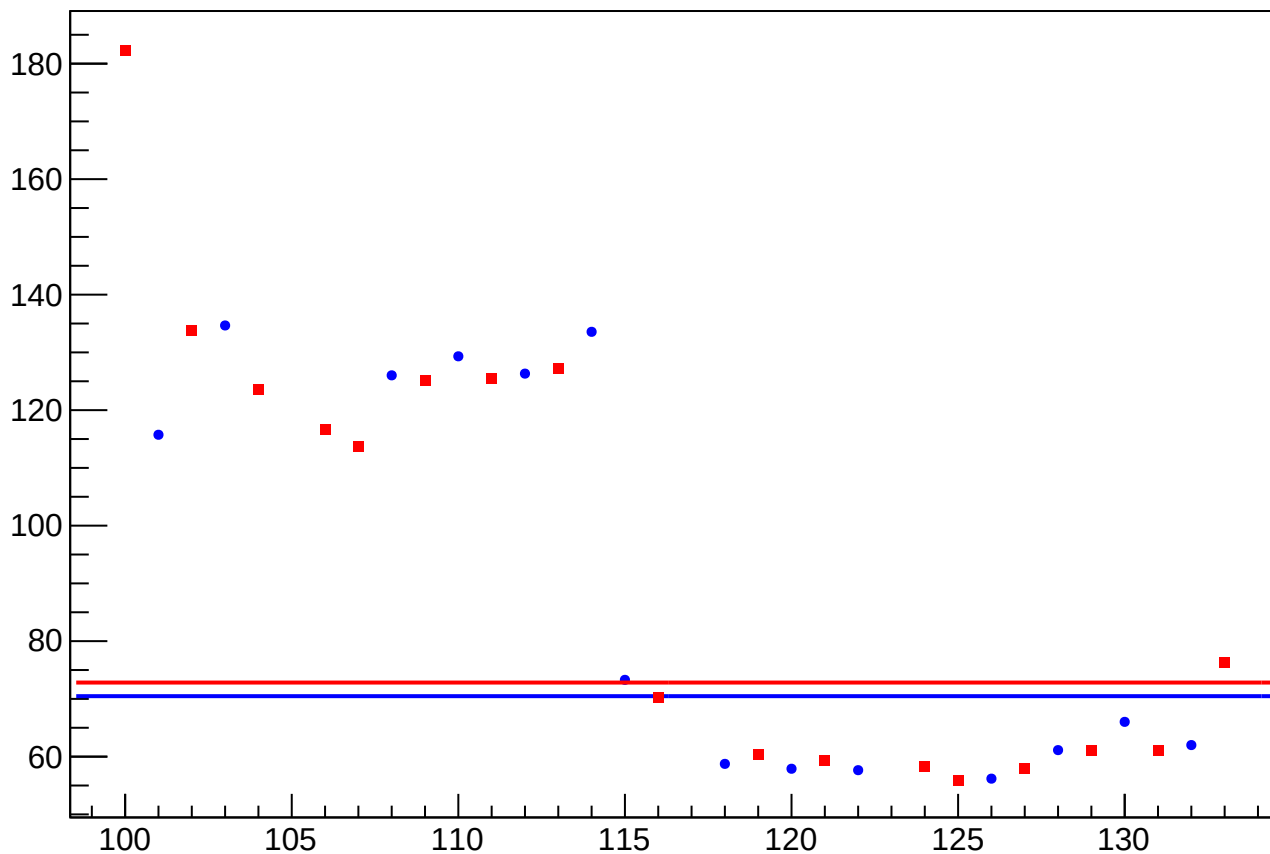
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -7.158 $\pm$ 21.446  $\chi^2$ /NDF: 41.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 70.472 $\pm$ 0.022  $\chi^2$ /NDF: 1232128.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 72.829 $\pm$ 0.021  $\chi^2$ /NDF: 1435633.0/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

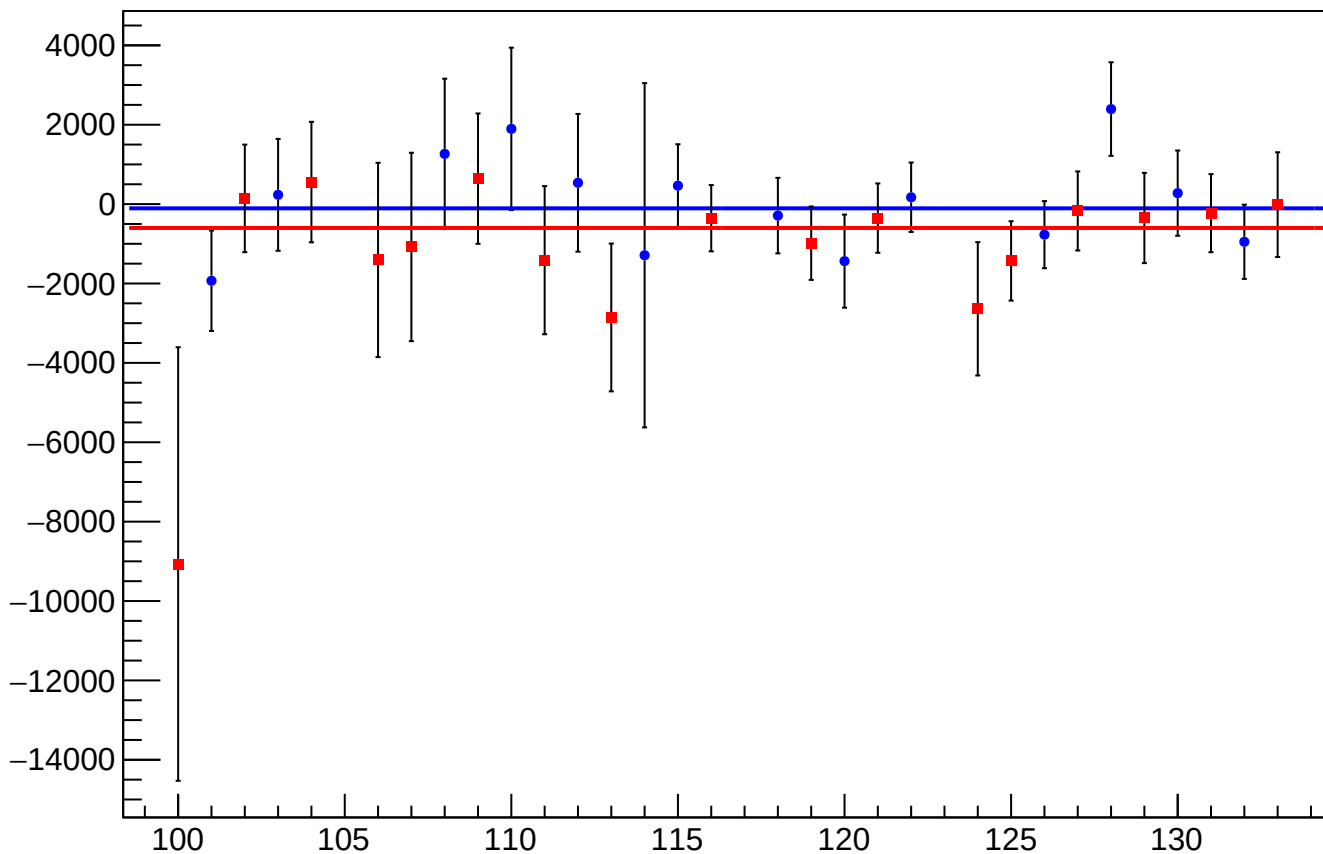
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 71.679 $\pm$ 0.015  $\chi^2$ /NDF: 2673799.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1526\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -106.396+/-312.866  $\chi^2$ /NDF: 11.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -600.220+/-302.061  $\chi^2$ /NDF: 8.7/16

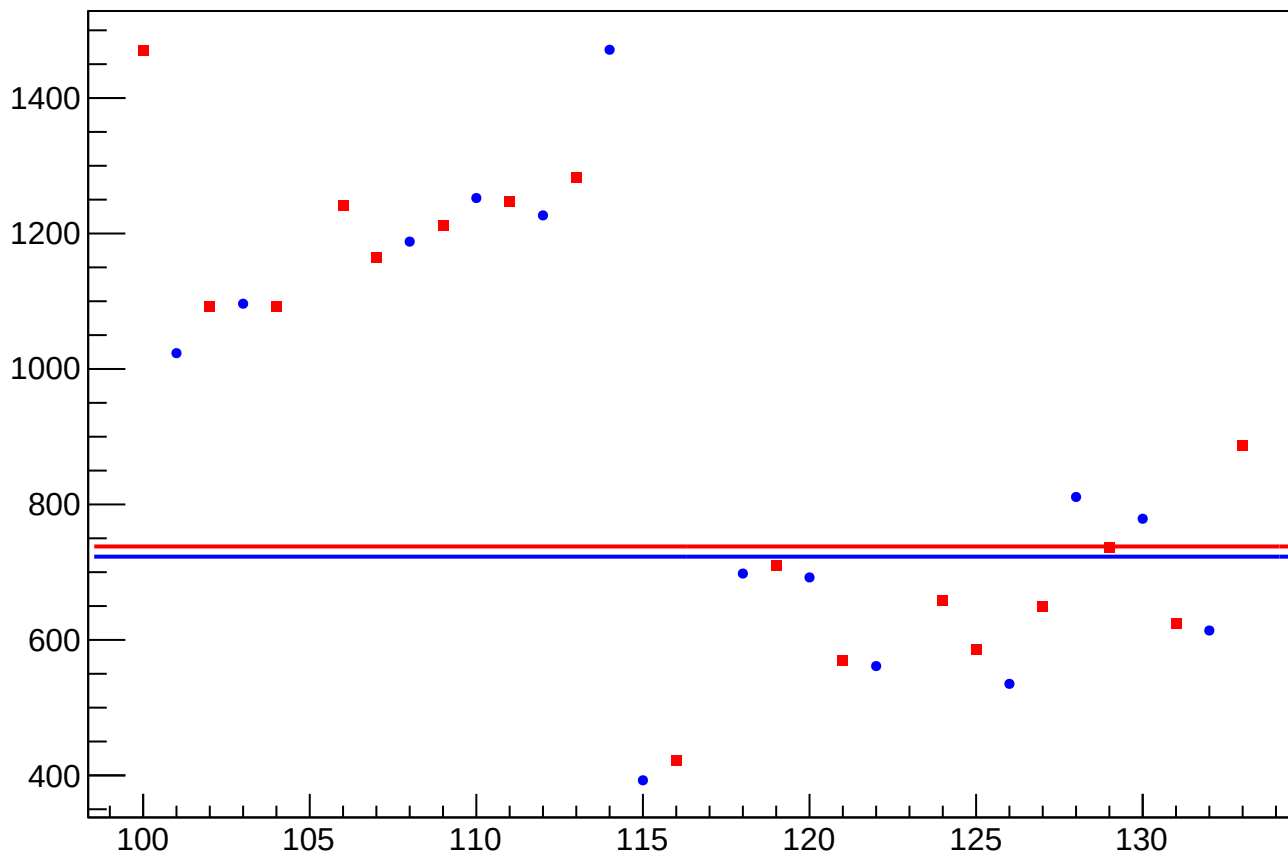
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -361.982+/-217.309  $\chi^2$ /NDF: 21.6/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 722.928+/-0.221  $\chi^2/\text{NDF}$ : 1149393.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 737.951+/-0.214  $\chi^2/\text{NDF}$ : 1398469.4/16

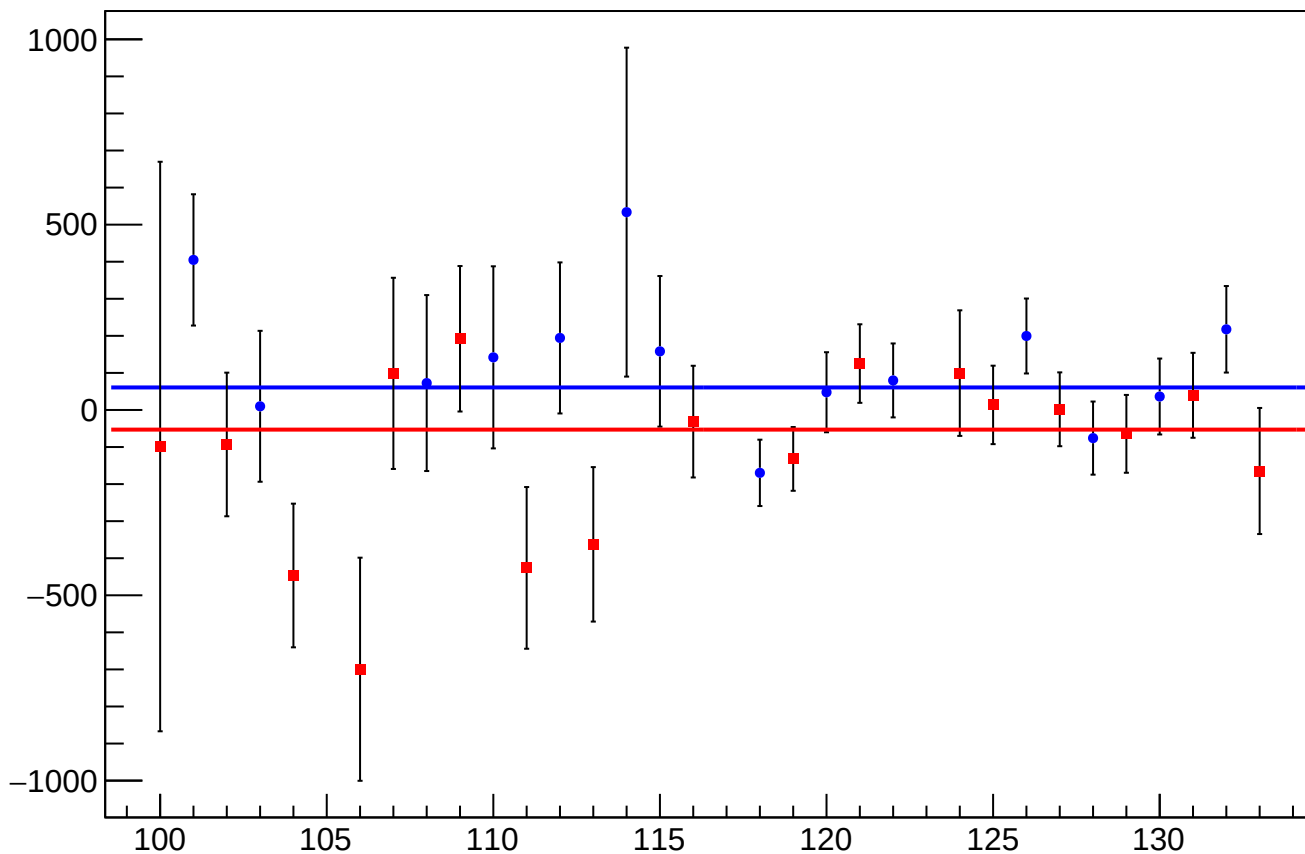
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 730.703+/-0.154  $\chi^2/\text{NDF}$ : 2550249.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 60.785 $\pm$ 34.835  $\chi^2$ /NDF: 18.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -53.002 $\pm$ 34.388  $\chi^2$ /NDF: 22.1/16

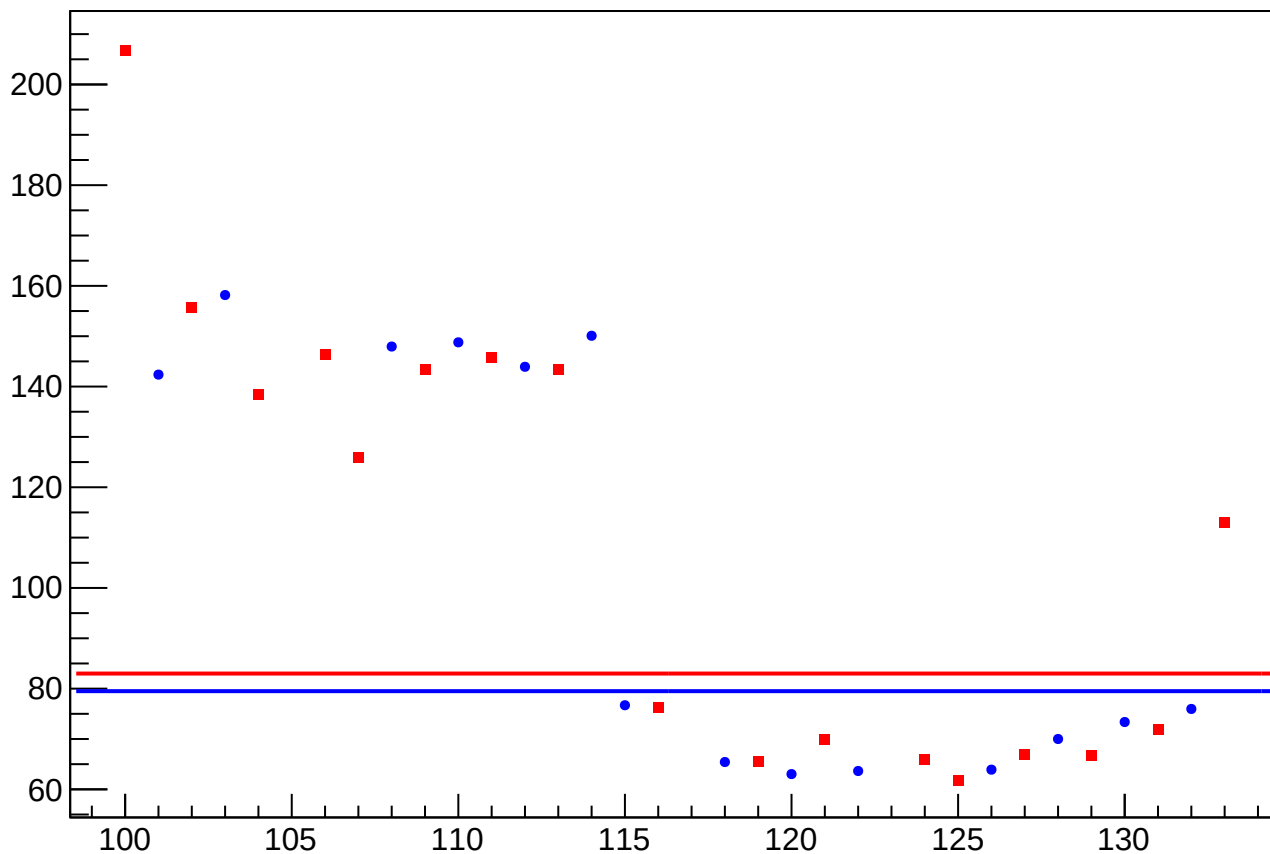
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.157 $\pm$ 24.473  $\chi^2$ /NDF: 45.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 79.502 $\pm$ 0.025  $\chi^2$ /NDF: 1348584.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 82.997 $\pm$ 0.024  $\chi^2$ /NDF: 1562554.6/16

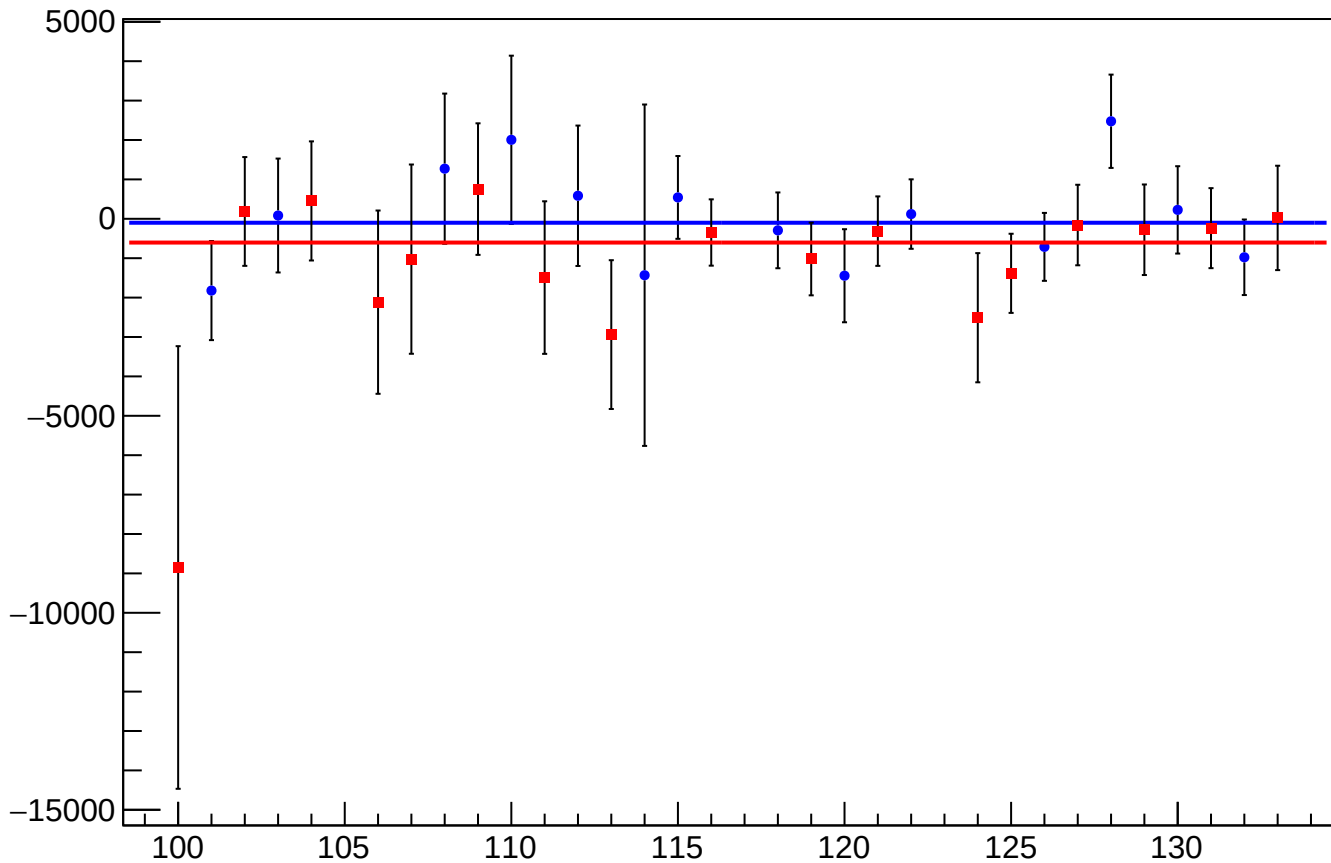
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 81.272 $\pm$ 0.017  $\chi^2$ /NDF: 2921340.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_dit\_correction\_mean vs Slug



Right In: -100.151+/-317.428  $\chi^2$ /NDF: 11.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -603.066+/-304.989  $\chi^2$ /NDF: 8.8/16

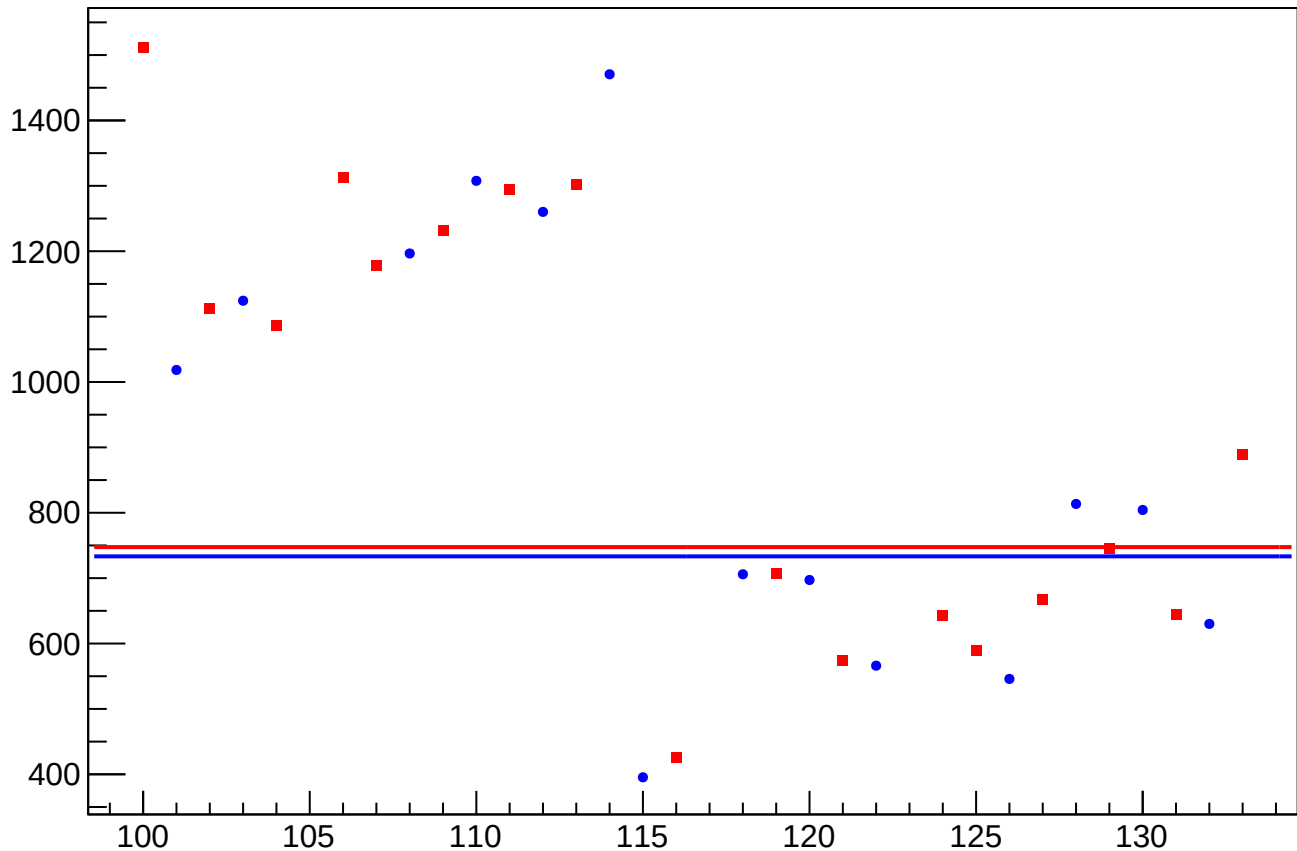
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -361.655+/-219.926  $\chi^2$ /NDF: 21.7/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1526\_avg\_dit\_correction\_rms vs Slug



Right In: 733.301+/-0.224  $\chi^2/\text{NDF}$ : 1162035.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 747.504+/-0.216  $\chi^2/\text{NDF}$ : 1448784.7/16

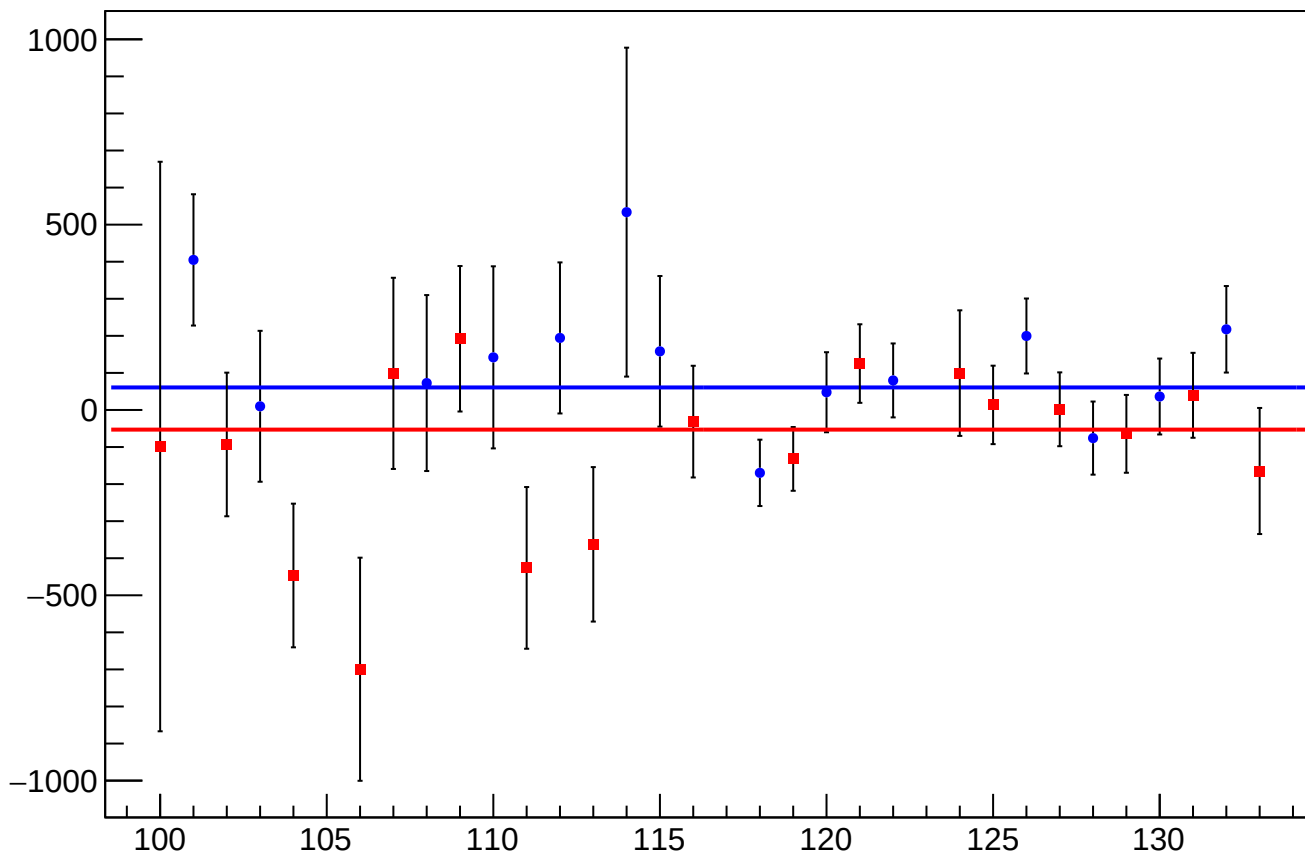
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 740.686+/-0.156  $\chi^2/\text{NDF}$ : 2612902.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 60.785 $\pm$ 34.835  $\chi^2$ /NDF: 18.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -53.002 $\pm$ 34.388  $\chi^2$ /NDF: 22.1/16

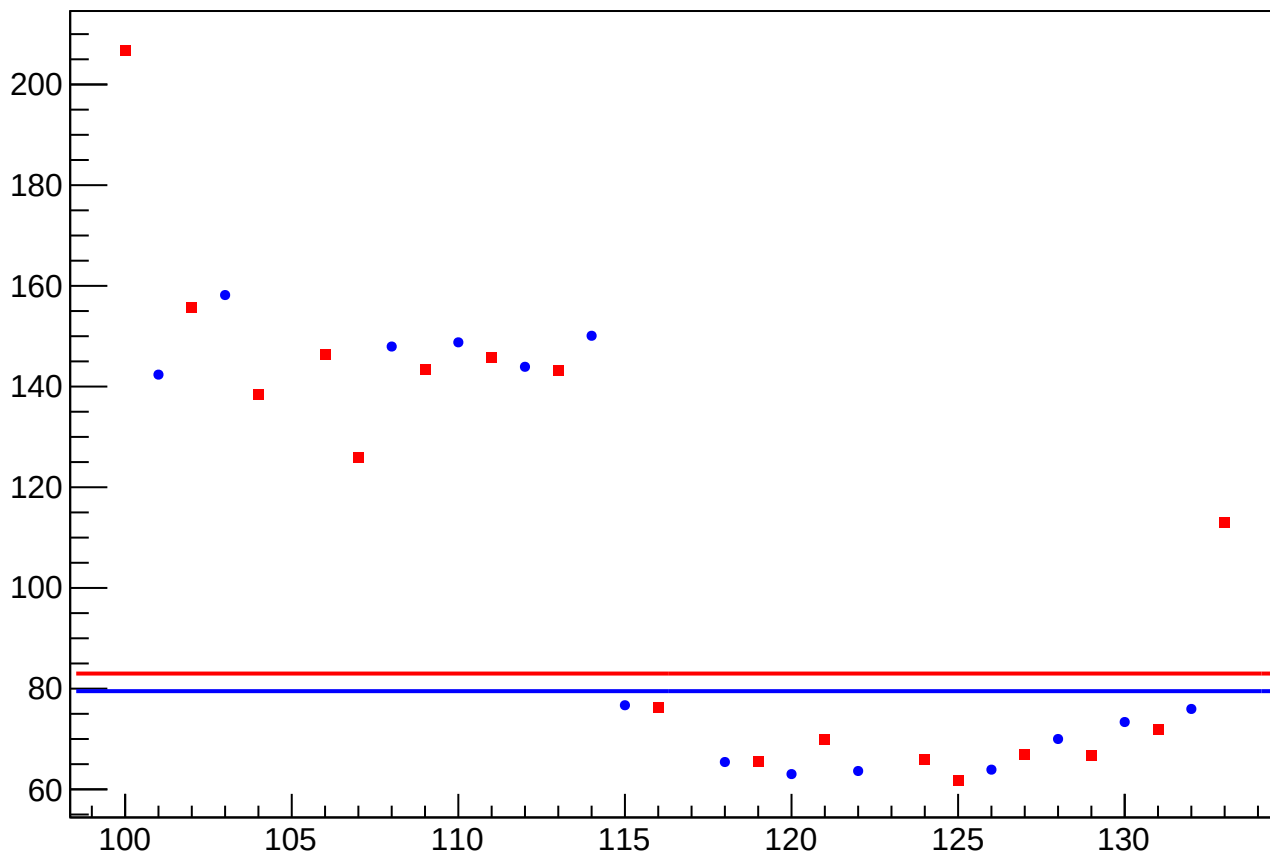
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.157 $\pm$ 24.472  $\chi^2$ /NDF: 45.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 79.501+/-0.025  $\chi^2/\text{NDF}$ : 1348582.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 82.997+/-0.024  $\chi^2/\text{NDF}$ : 1562555.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

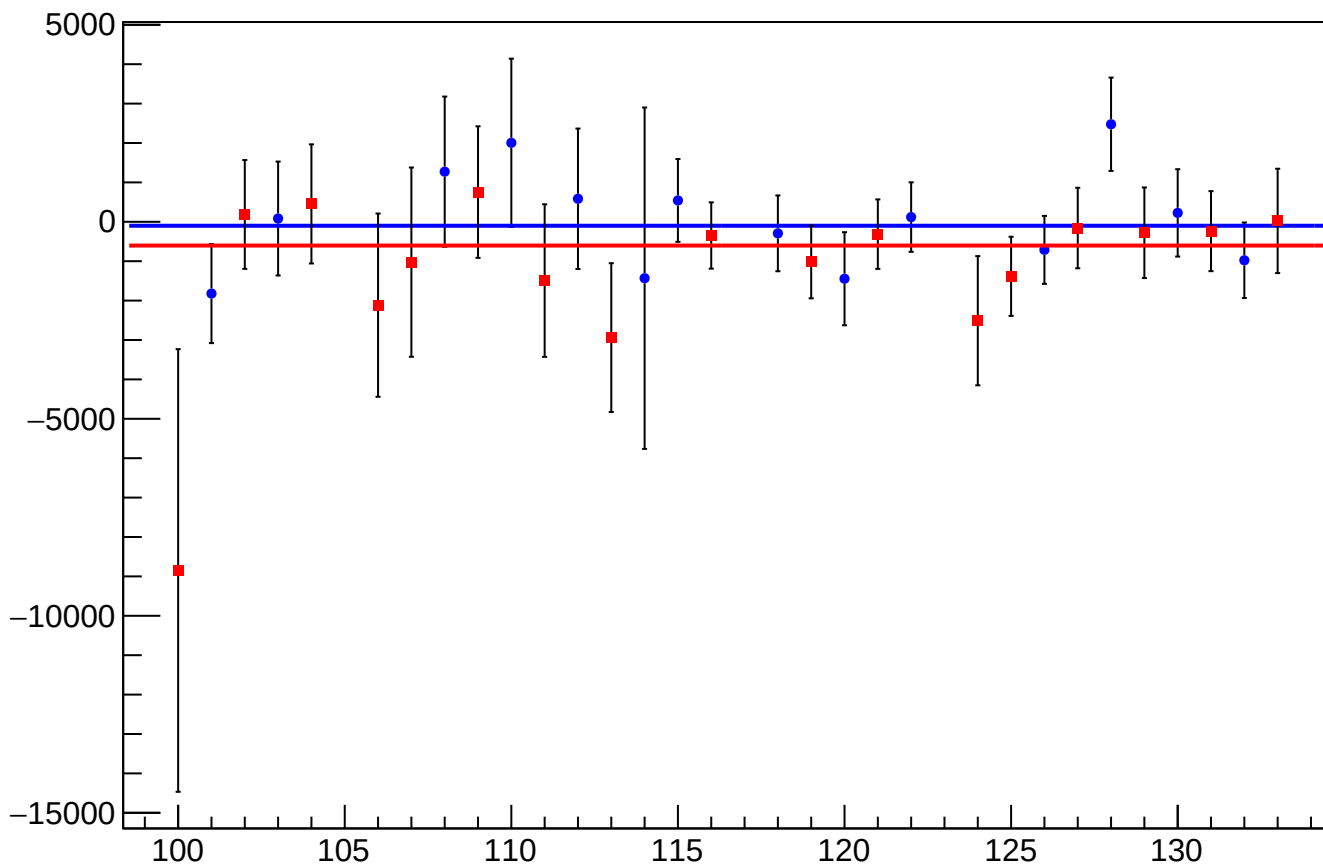
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 81.272+/-0.017  $\chi^2/\text{NDF}$ : 2921339.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1526\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -100.151+/-317.427  $\chi^2$ /NDF: 11.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -603.064+/-304.988  $\chi^2$ /NDF: 8.8/16

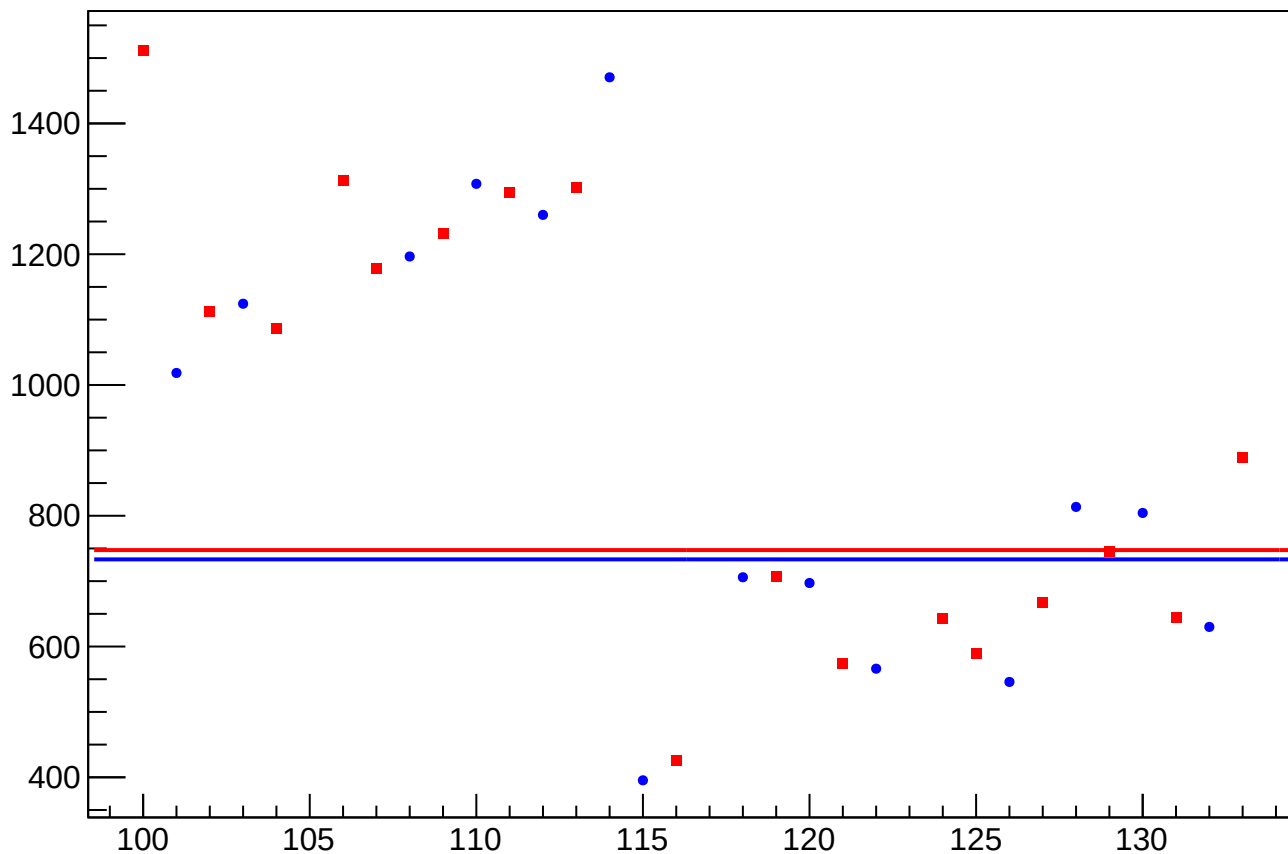
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -361.654+/-219.925  $\chi^2$ /NDF: 21.7/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 733.299+/-0.224  $\chi^2/\text{NDF}$ : 1162022.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 747.503+/-0.216  $\chi^2/\text{NDF}$ : 1448773.4/16

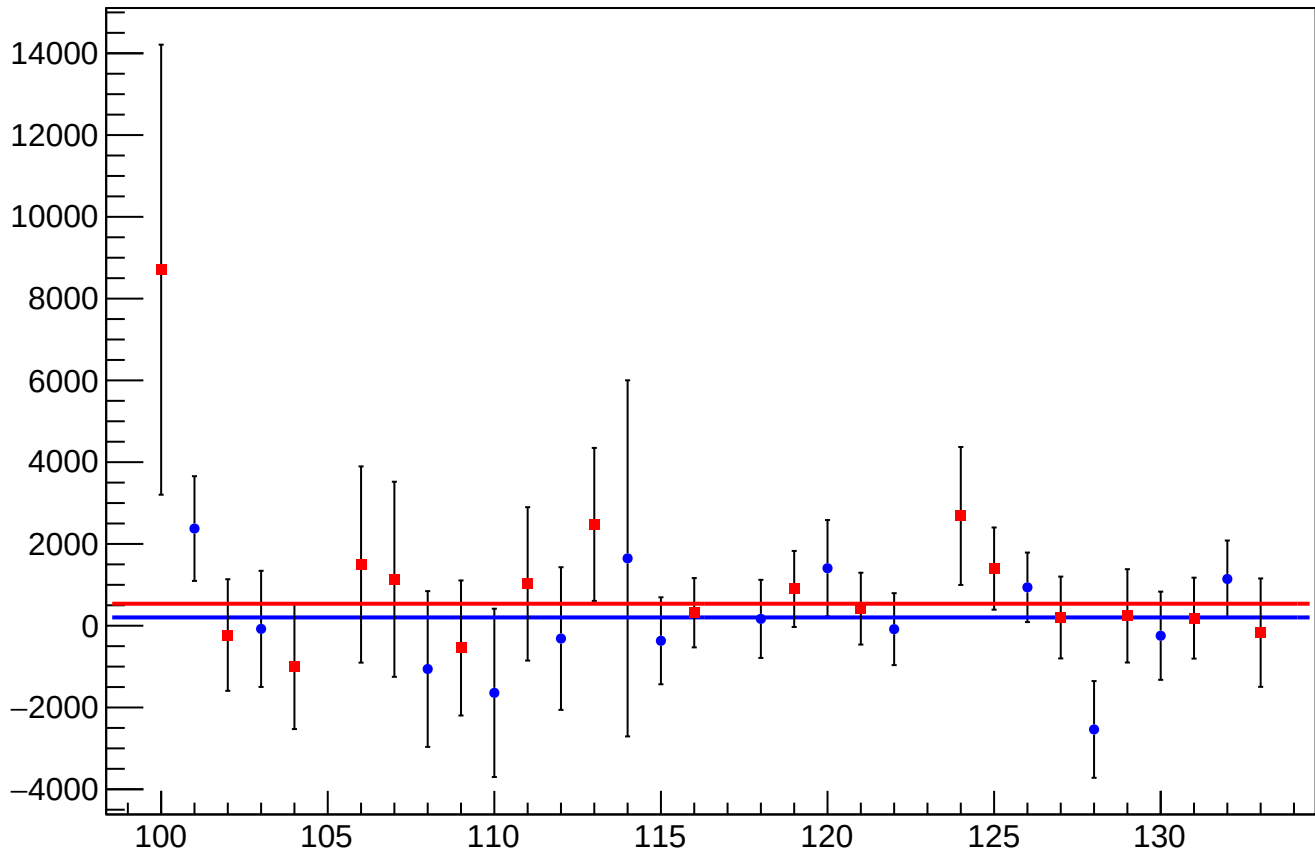
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 740.685+/-0.156  $\chi^2/\text{NDF}$ : 2612878.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1526\_avg\_mean vs Slug



Right In: 202.691+/-314.988  $\chi^2/\text{NDF}$ : 13.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 537.788+/-303.916  $\chi^2/\text{NDF}$ : 8.5/16

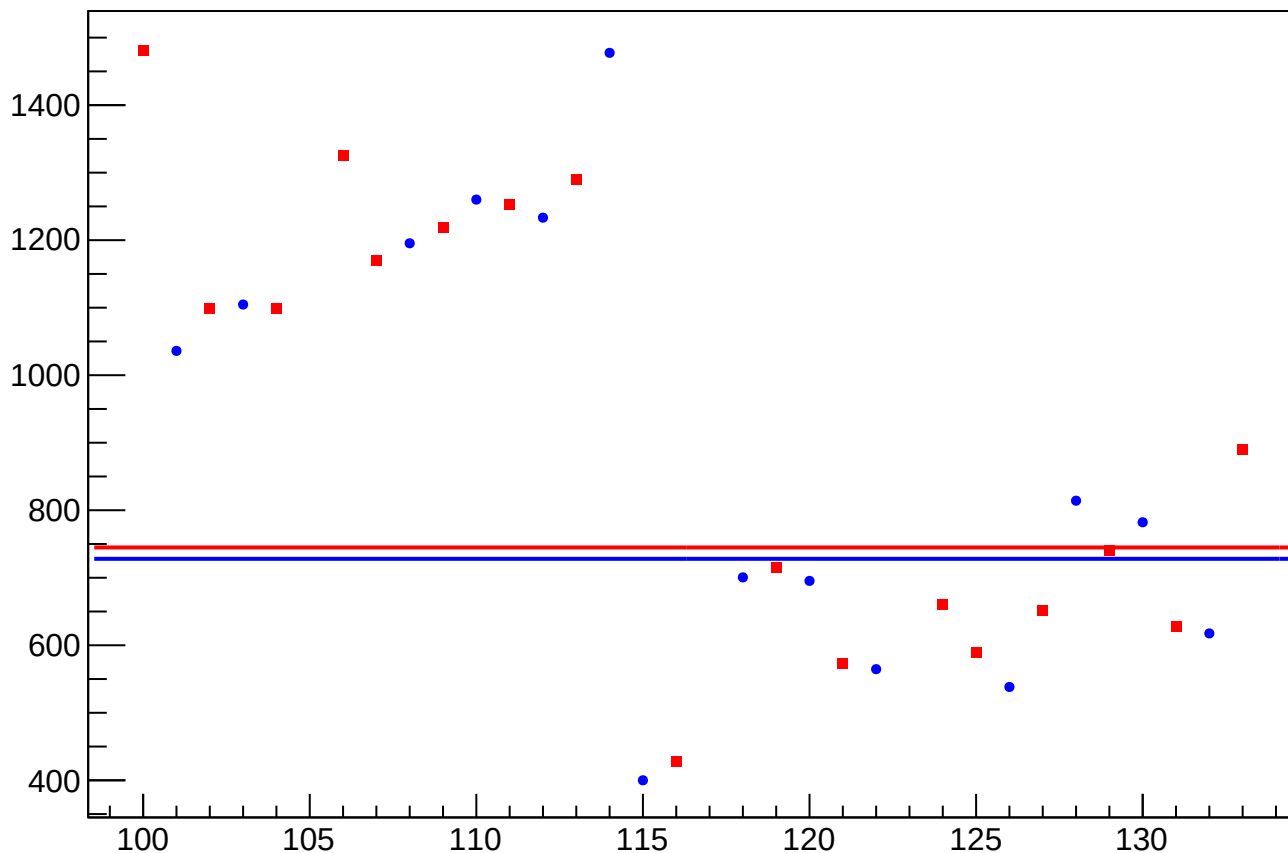
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 376.233+/-218.710  $\chi^2/\text{NDF}$ : 22.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1526\_avg\_rms vs Slug



Right In: 728.063+/-0.223  $\chi^2/\text{NDF}$ : 1142716.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 744.854+/-0.215  $\chi^2/\text{NDF}$ : 1420581.7/16

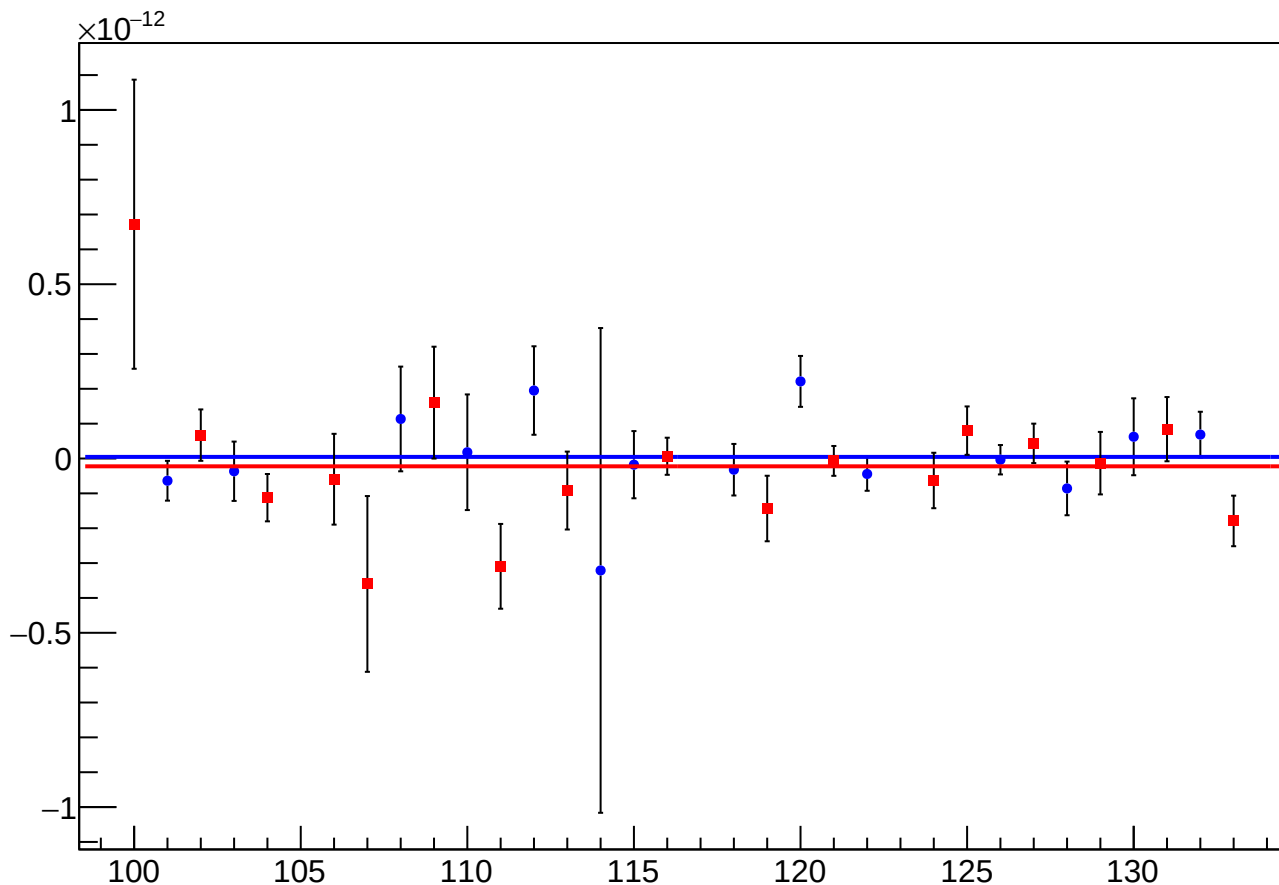
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 736.759+/-0.155  $\chi^2/\text{NDF}$ : 2566241.7/30

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 17.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 27.1/16

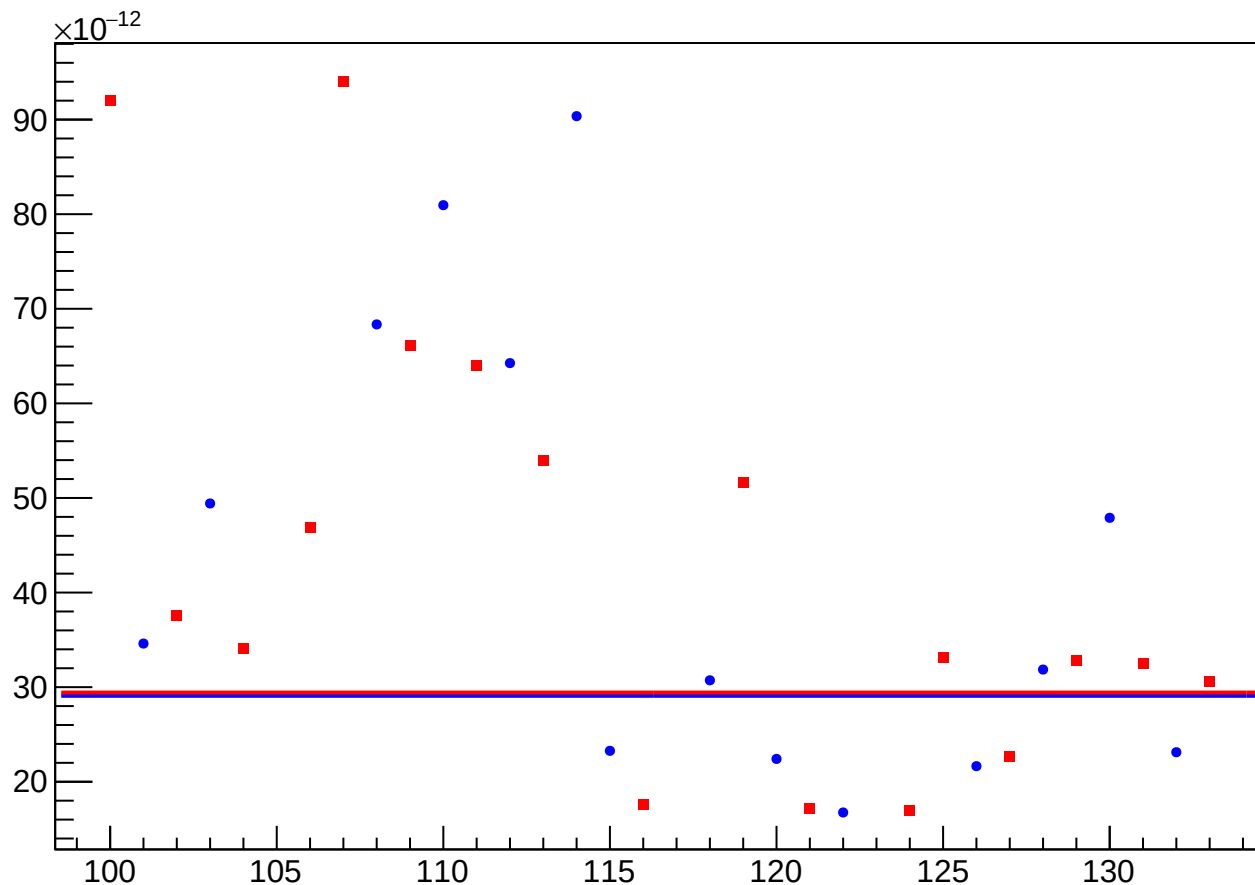
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 45.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1526\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 929367.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1071936.8/16

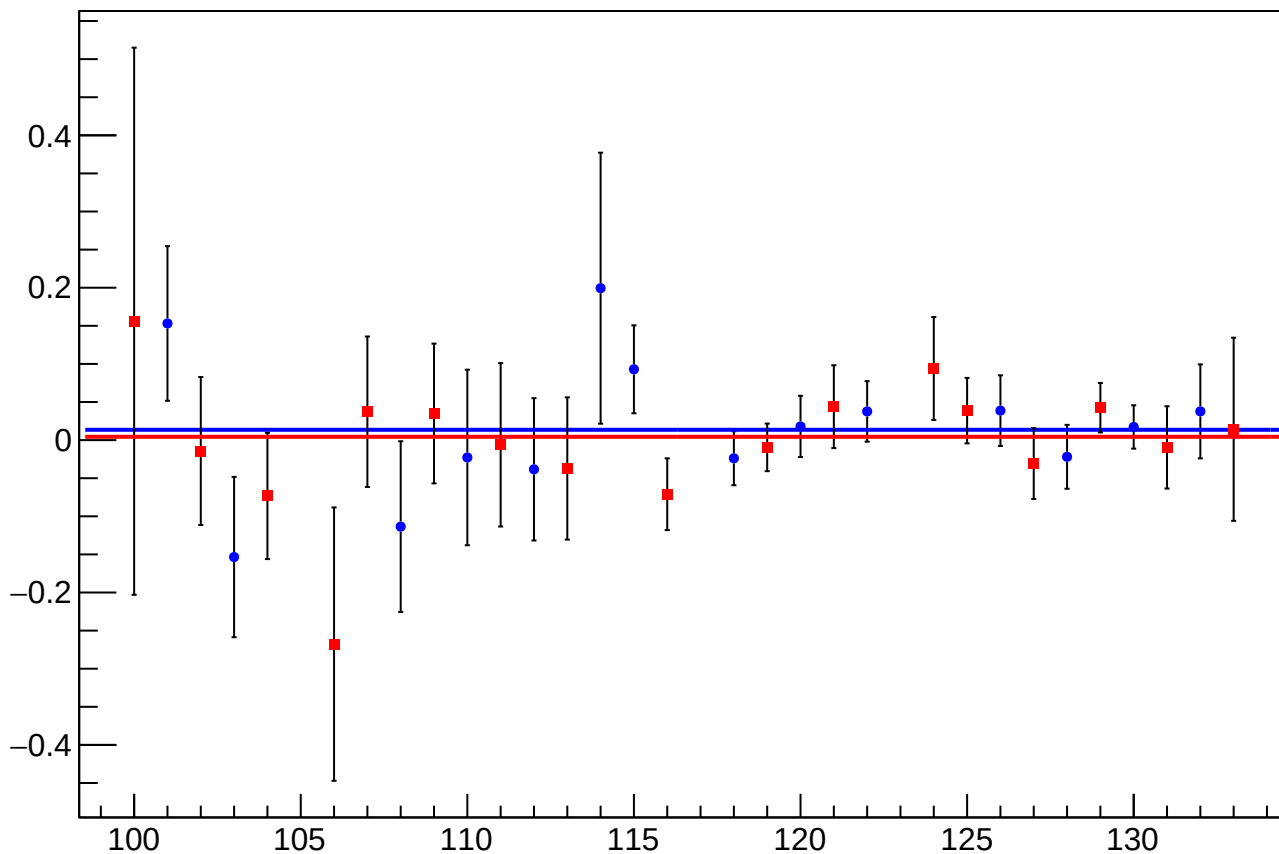
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2001611.9/30

- 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: 0.014 $\pm$ 0.014  $\chi^2$ /NDF: 11.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.014  $\chi^2$ /NDF: 11.5/16

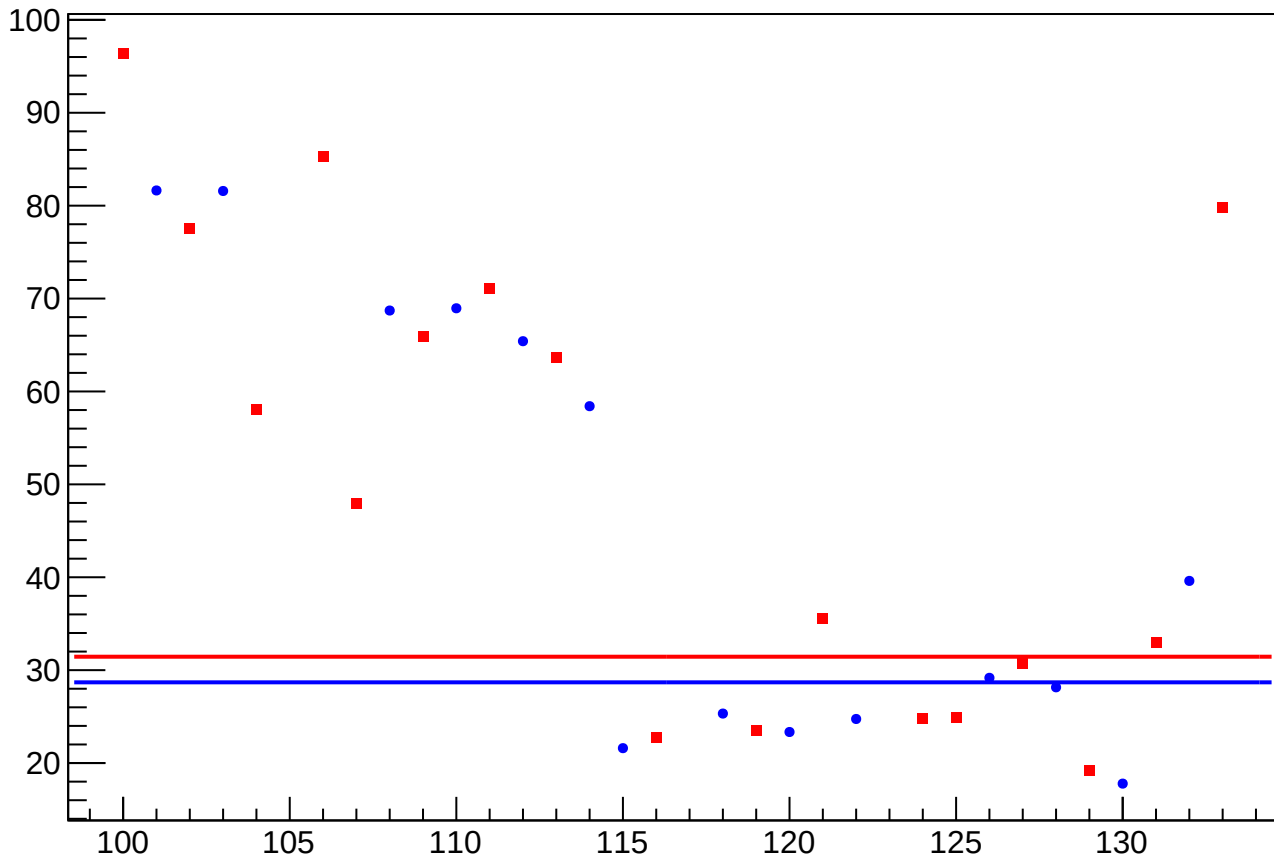
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.010  $\chi^2$ /NDF: 23.5/30

- 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: 28.689+/-0.010  $\chi^2/\text{NDF}$ : 2375596.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.447+/-0.010  $\chi^2/\text{NDF}$ : 2639116.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

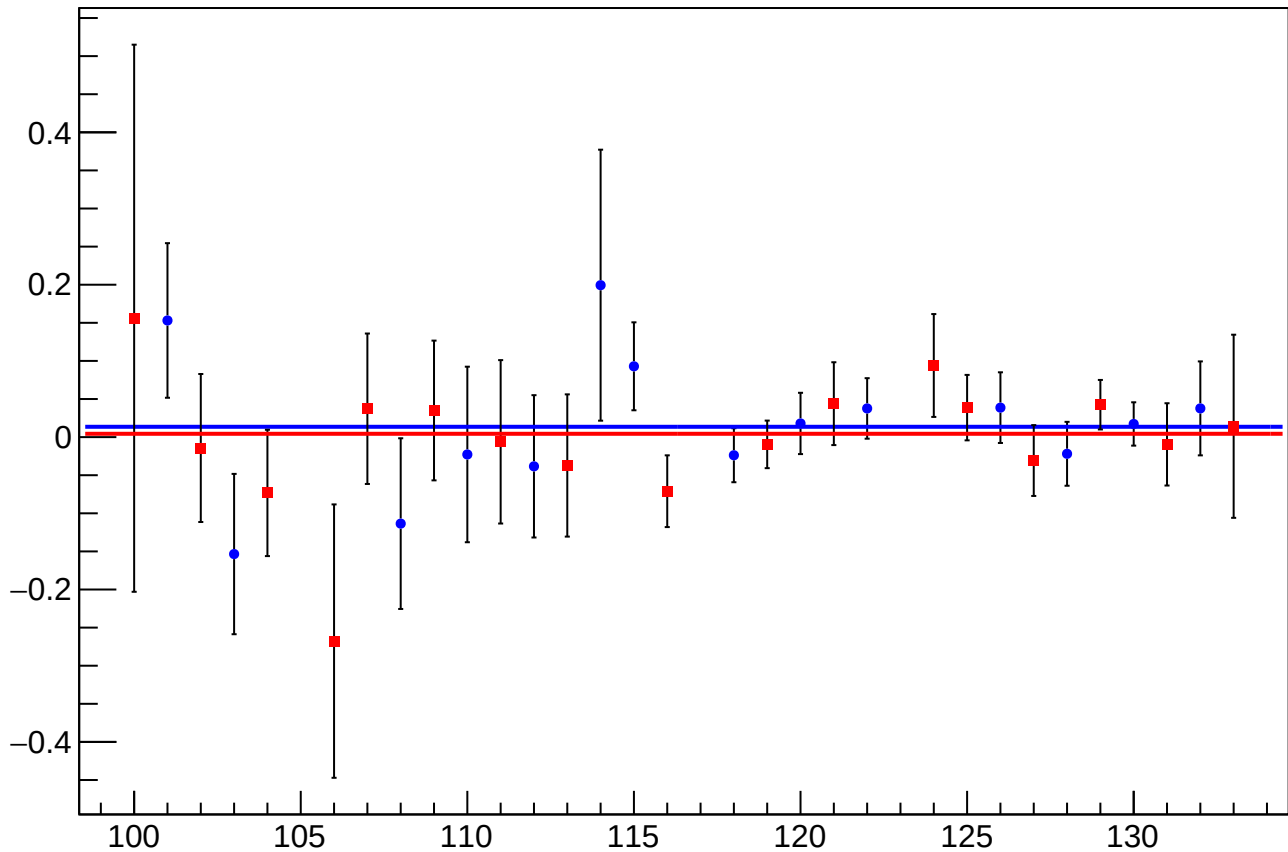
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.034+/-0.007  $\chi^2/\text{NDF}$ : 5054572.7/30

- 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: 0.014 $\pm$ 0.014  $\chi^2$ /NDF: 11.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.014  $\chi^2$ /NDF: 11.5/16

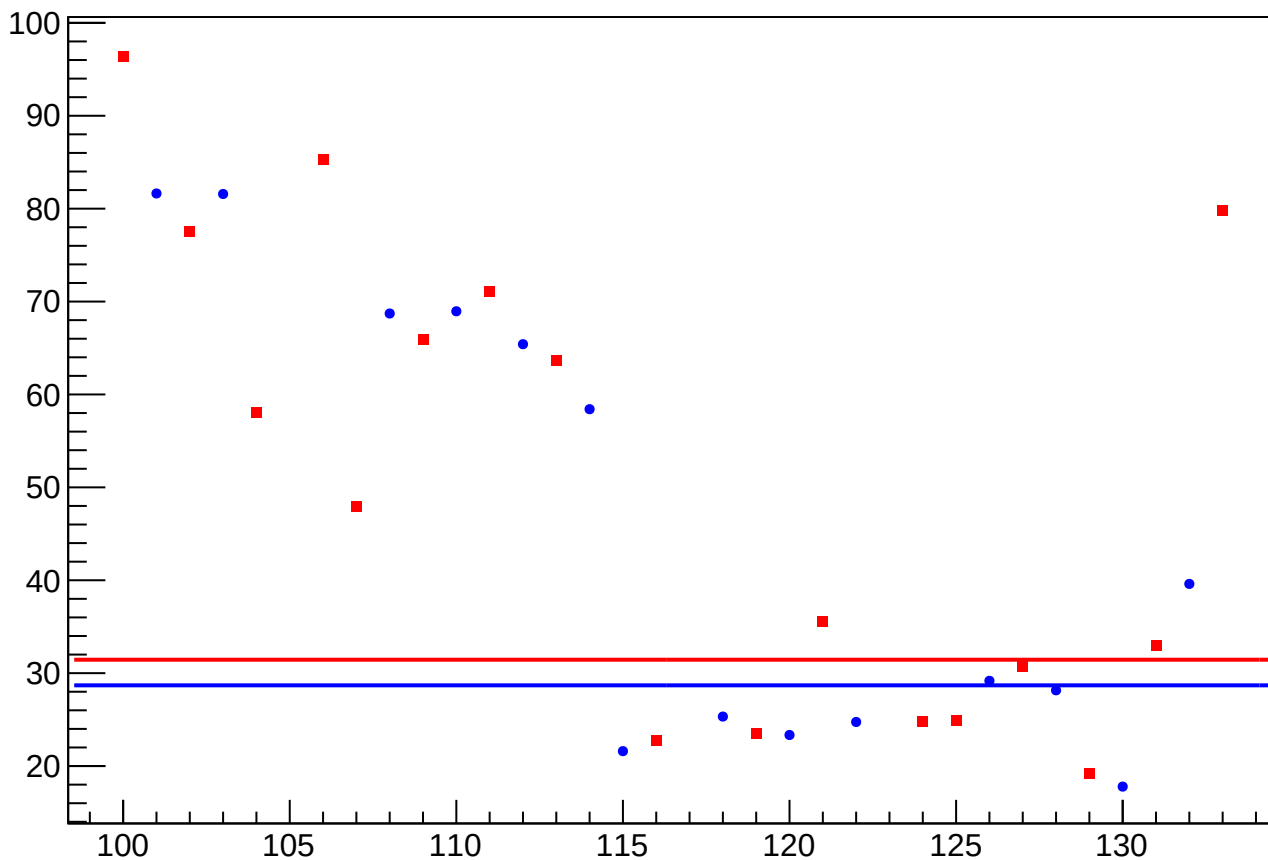
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.010  $\chi^2$ /NDF: 23.5/30

- 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: 28.689+/-0.010  $\chi^2/\text{NDF}$ : 2375596.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.447+/-0.010  $\chi^2/\text{NDF}$ : 2639116.2/16

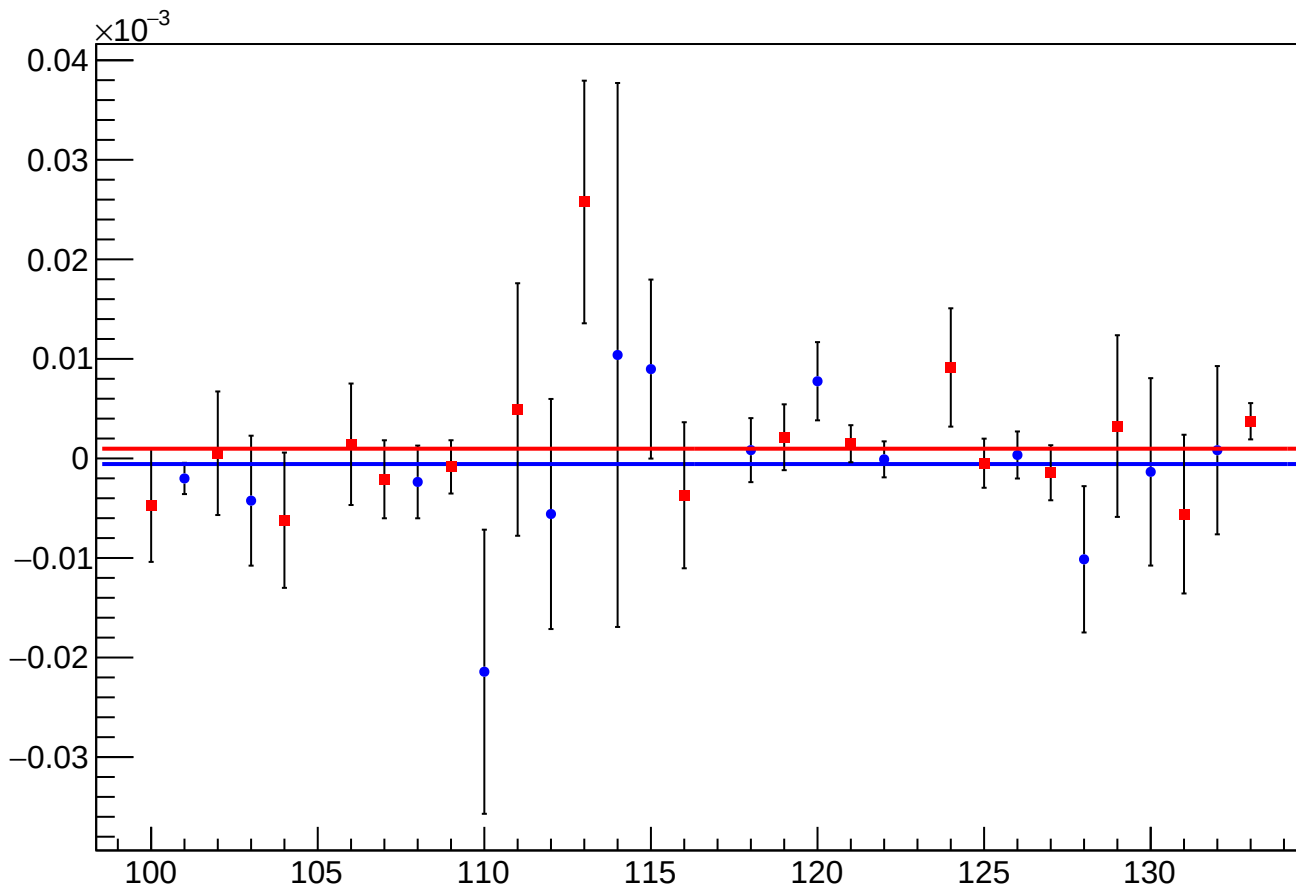
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.034+/-0.007  $\chi^2/\text{NDF}$ : 5054572.7/30

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 11.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.1/16

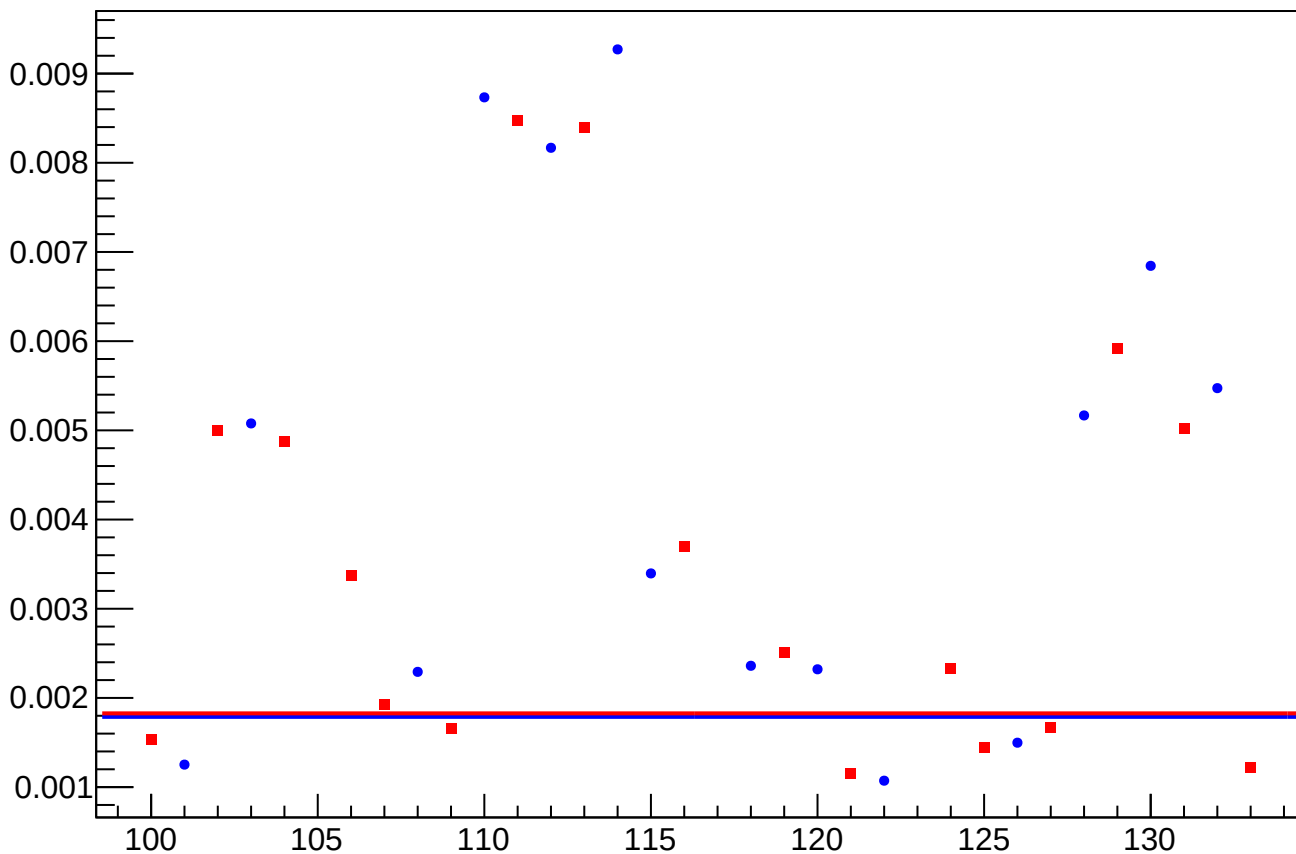
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 27.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3900012.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3688019.7/16

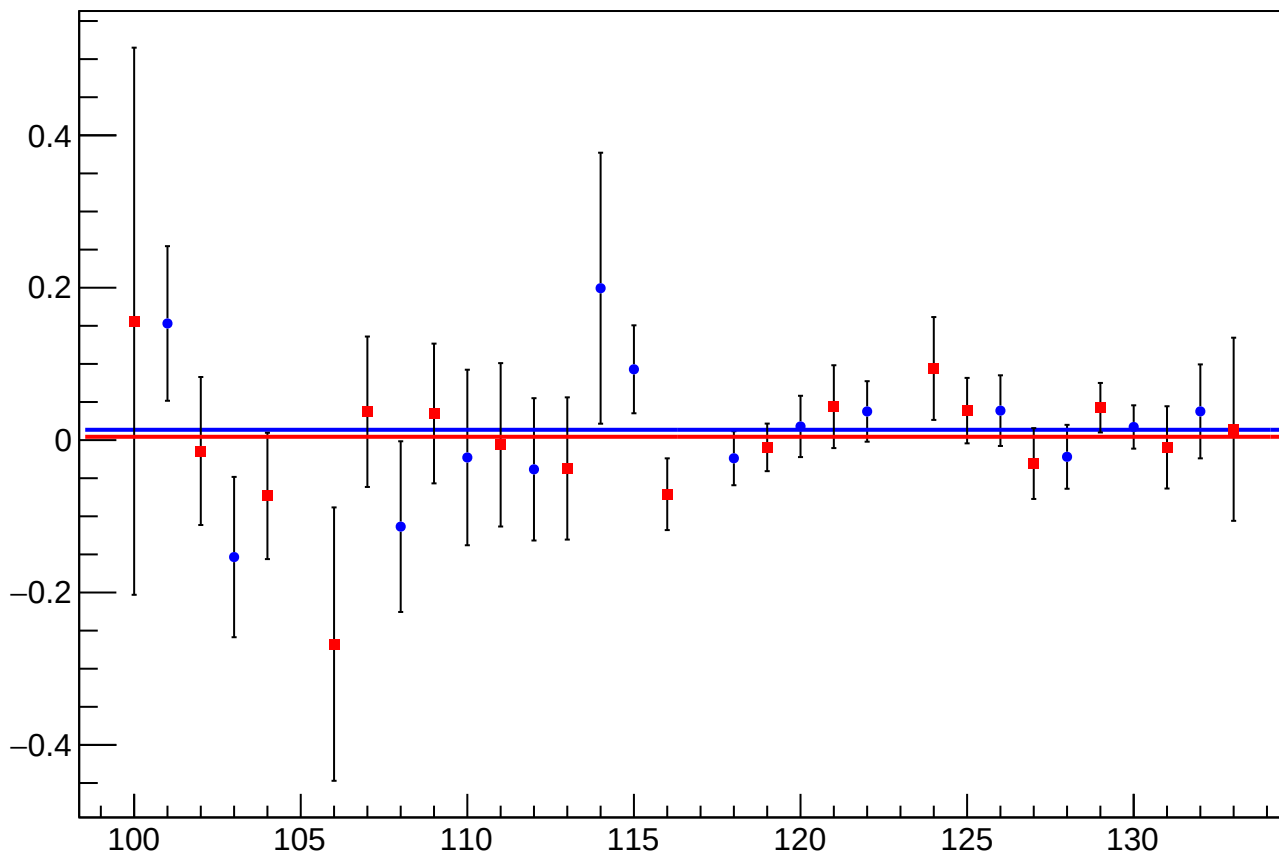
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 7590004.2/30

- 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: 0.014 $\pm$ 0.014  $\chi^2$ /NDF: 11.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.004 $\pm$ 0.014  $\chi^2$ /NDF: 11.5/16

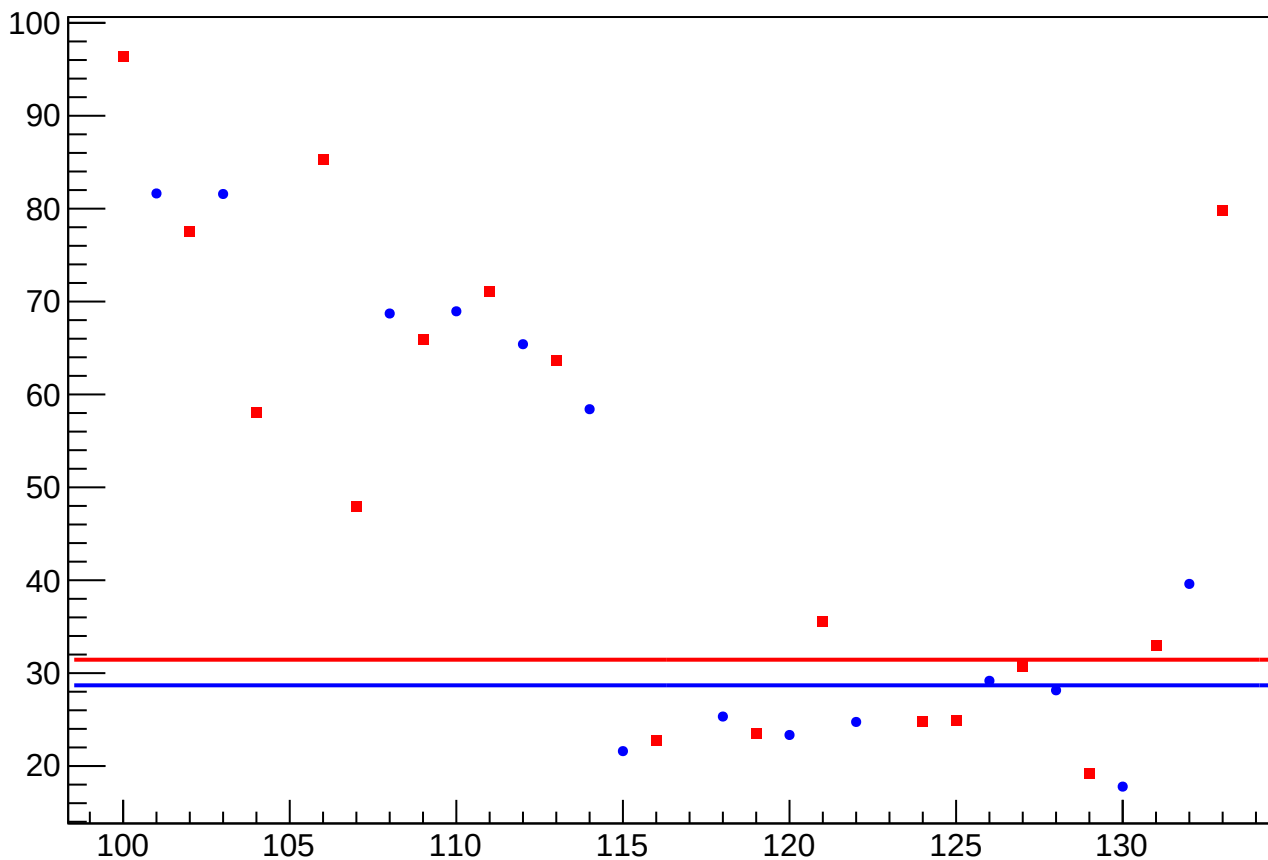
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.010  $\chi^2$ /NDF: 23.5/30

- 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: 28.688+/-0.010  $\chi^2/\text{NDF}$ : 2375760.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.446+/-0.010  $\chi^2/\text{NDF}$ : 2639274.0/16

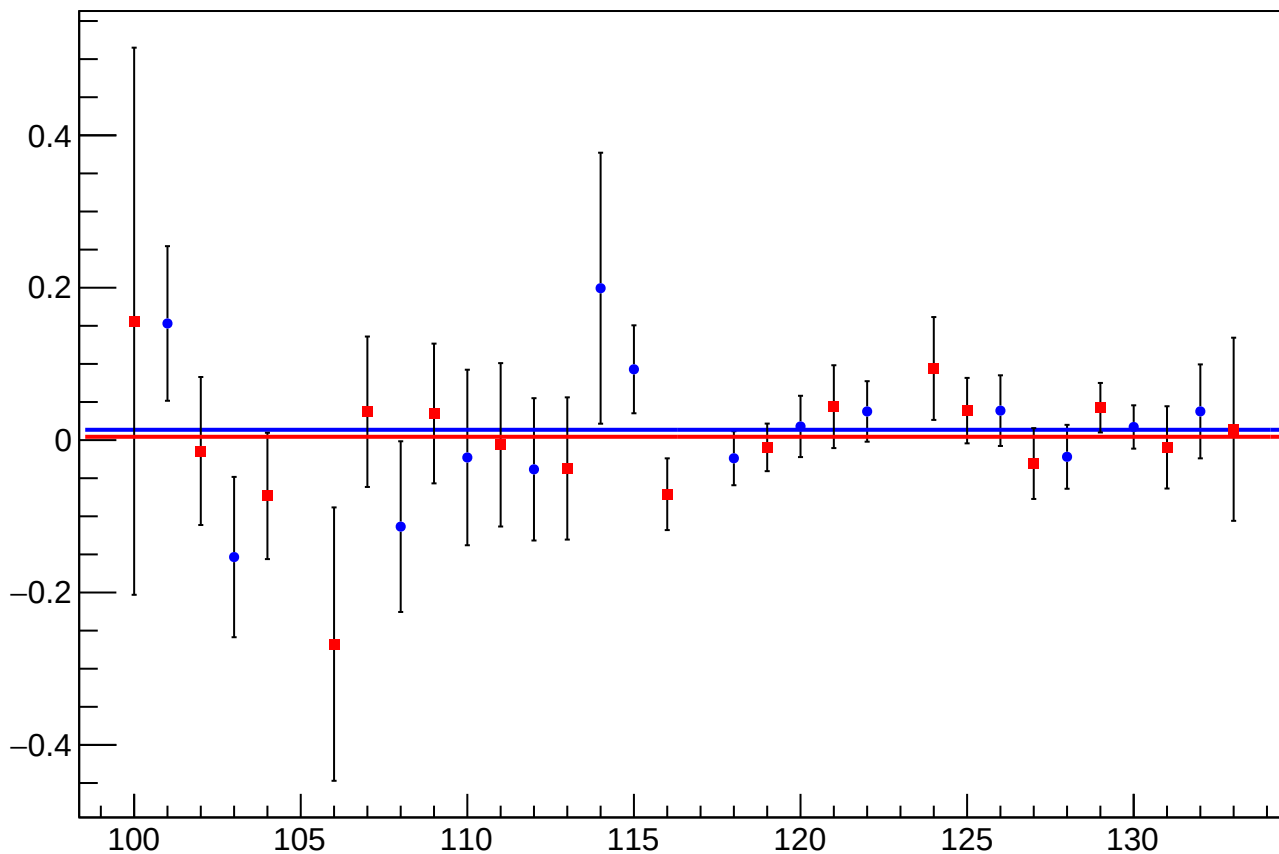
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.033+/-0.007  $\chi^2/\text{NDF}$ : 5054899.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.014 $\pm$ 0.014  $\chi^2$ /NDF: 11.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.014  $\chi^2$ /NDF: 11.5/16

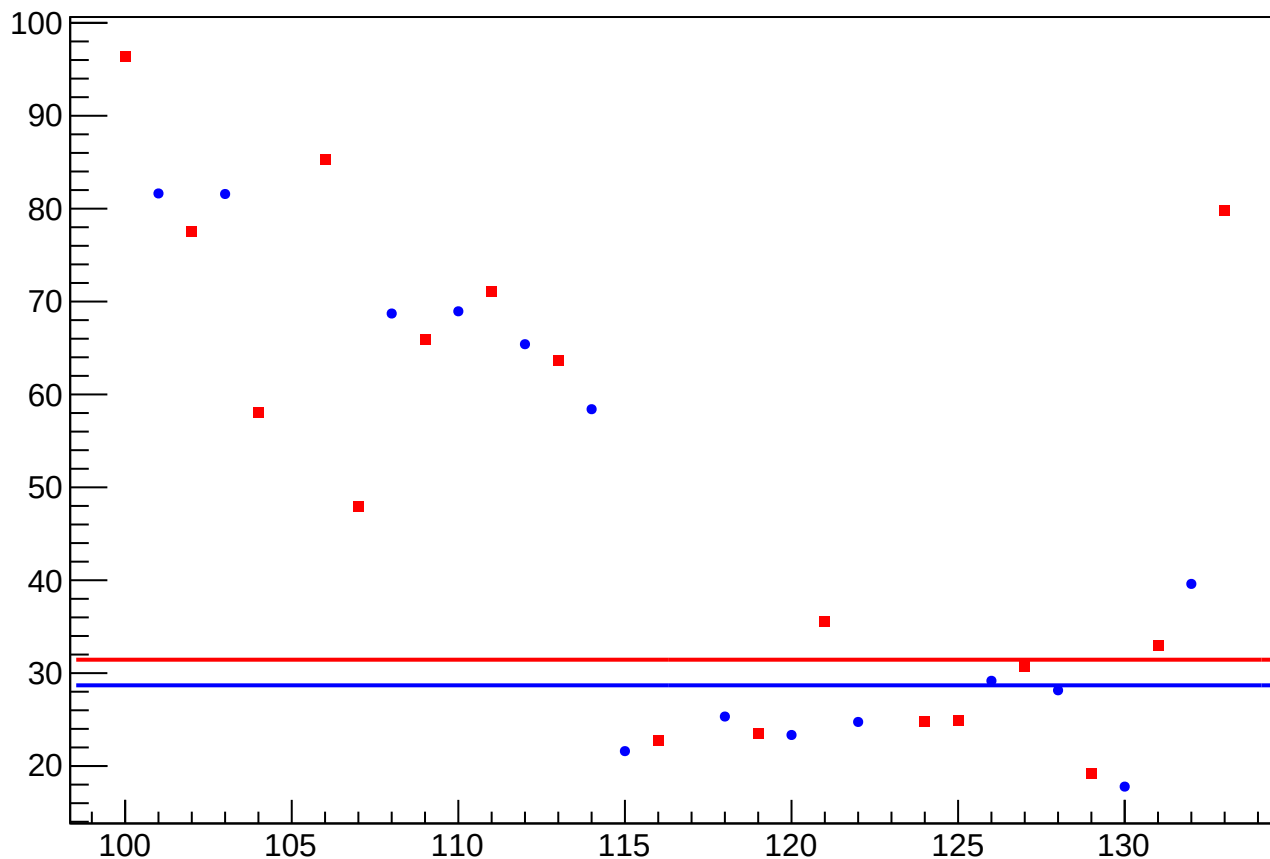
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.010  $\chi^2$ /NDF: 23.5/30

- 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: 28.688+/-0.010  $\chi^2/\text{NDF}$ : 2375760.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.446+/-0.010  $\chi^2/\text{NDF}$ : 2639274.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

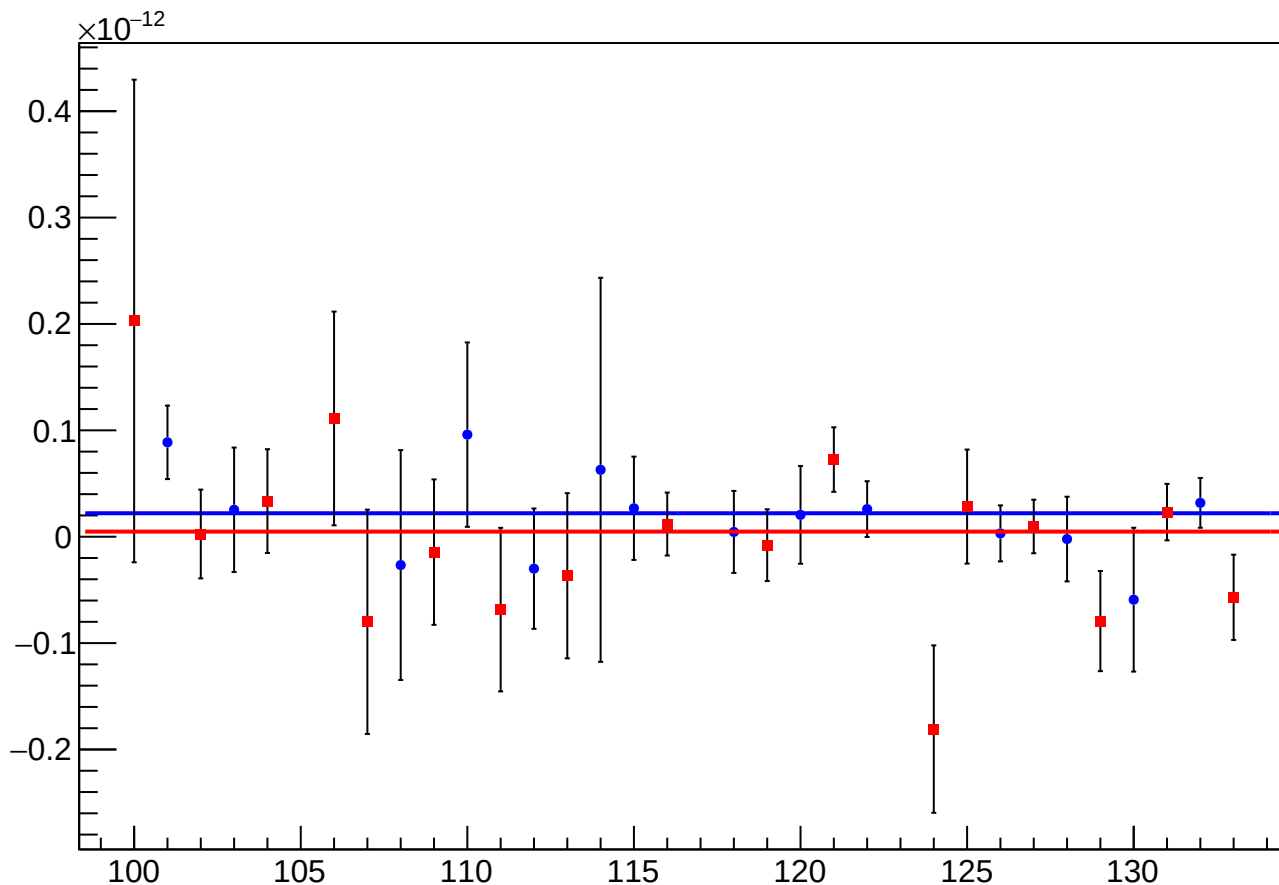
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.033+/-0.007  $\chi^2/\text{NDF}$ : 5054899.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1526\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 8.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 21.2/16

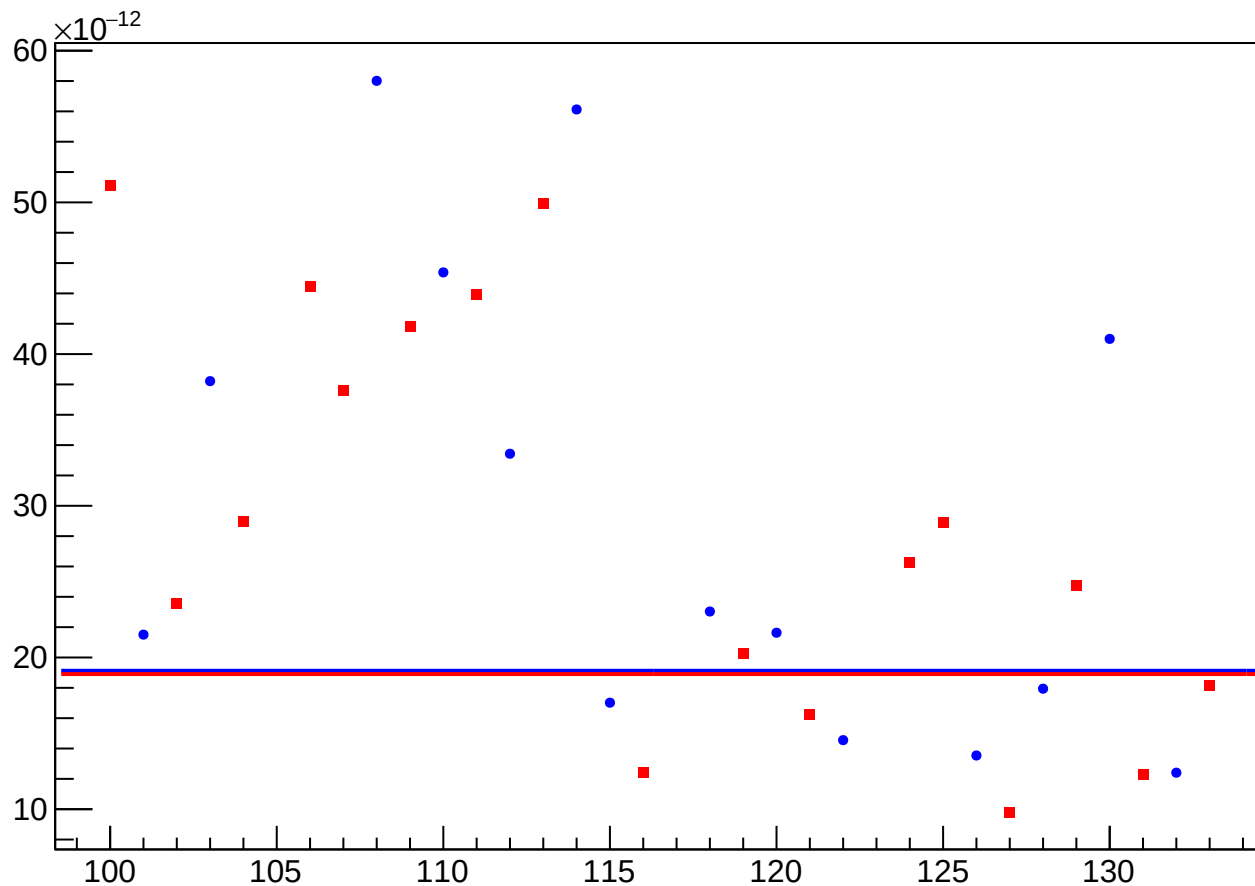
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 30.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1526\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1434498.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1721046.7/16

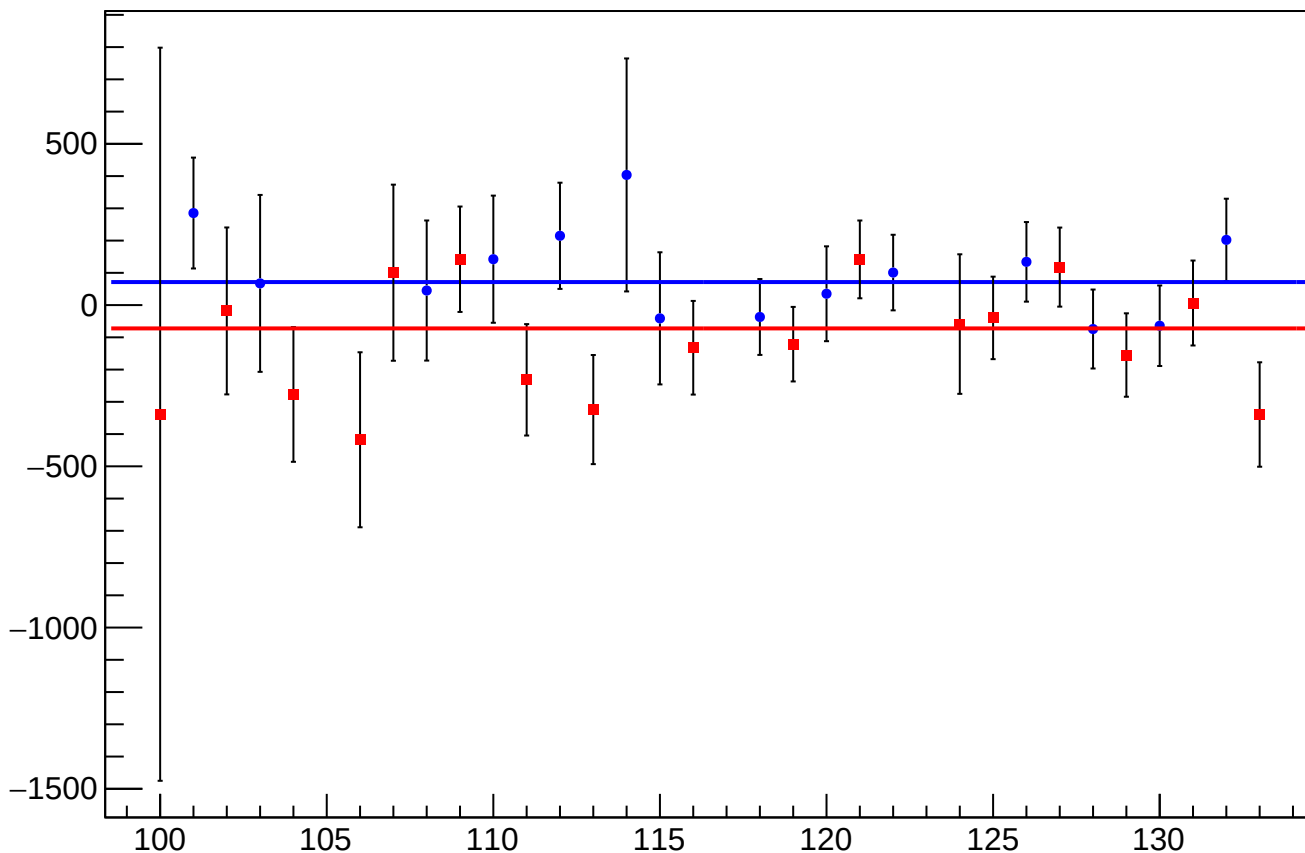
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3155966.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 71.401 $\pm$ 40.439  $\chi^2$ /NDF: 8.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -72.340 $\pm$ 38.719  $\chi^2$ /NDF: 17.3/16

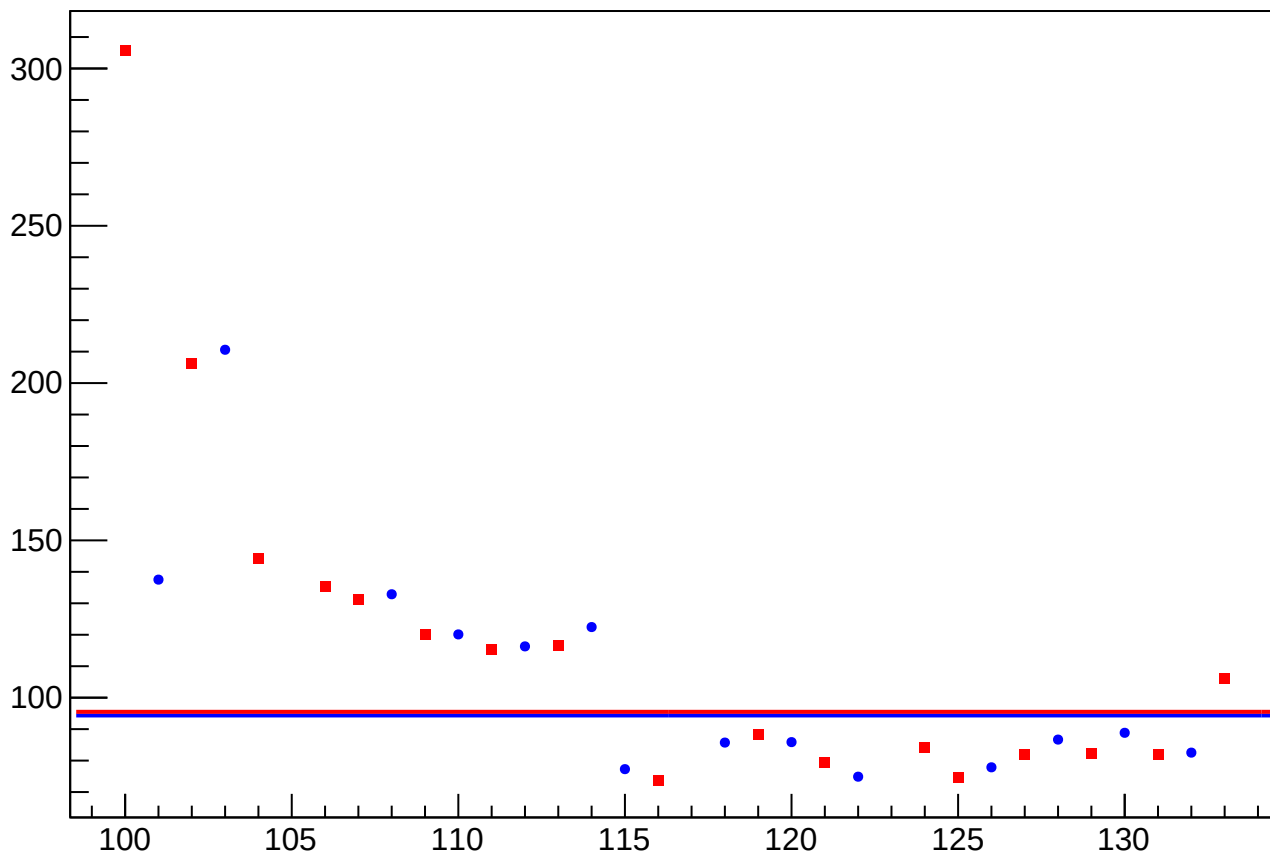
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.592 $\pm$ 27.966  $\chi^2$ /NDF: 32.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 94.347+/-0.029  $\chi^2/\text{NDF}$ : 780989.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 95.508+/-0.027  $\chi^2/\text{NDF}$ : 945260.2/16

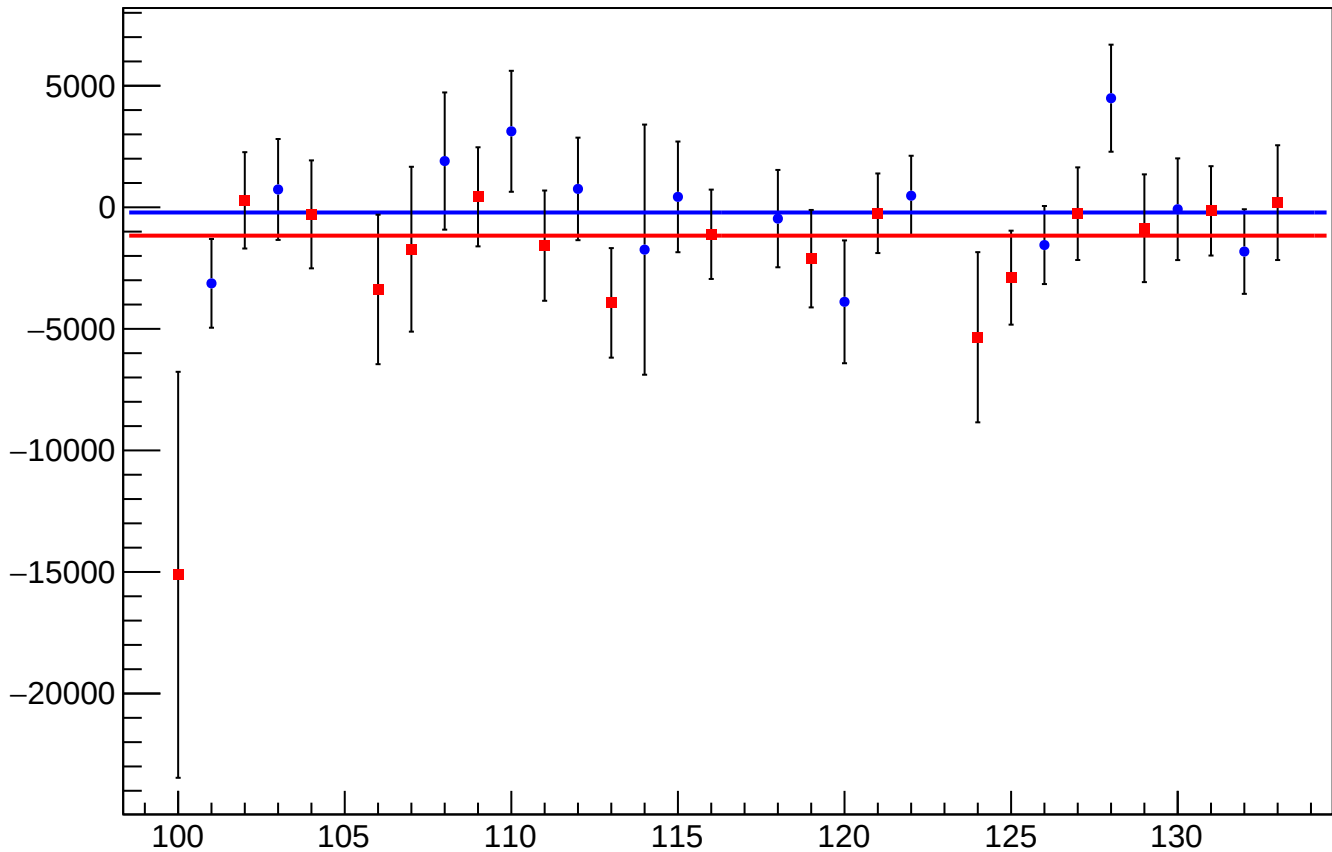
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.953+/-0.020  $\chi^2/\text{NDF}$ : 1727110.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_reg\_correction\_mean vs Slug



Right In: -212.895+/-558.682  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1165.312+/-533.105  $\chi^2/\text{NDF}$ : 9.8/16

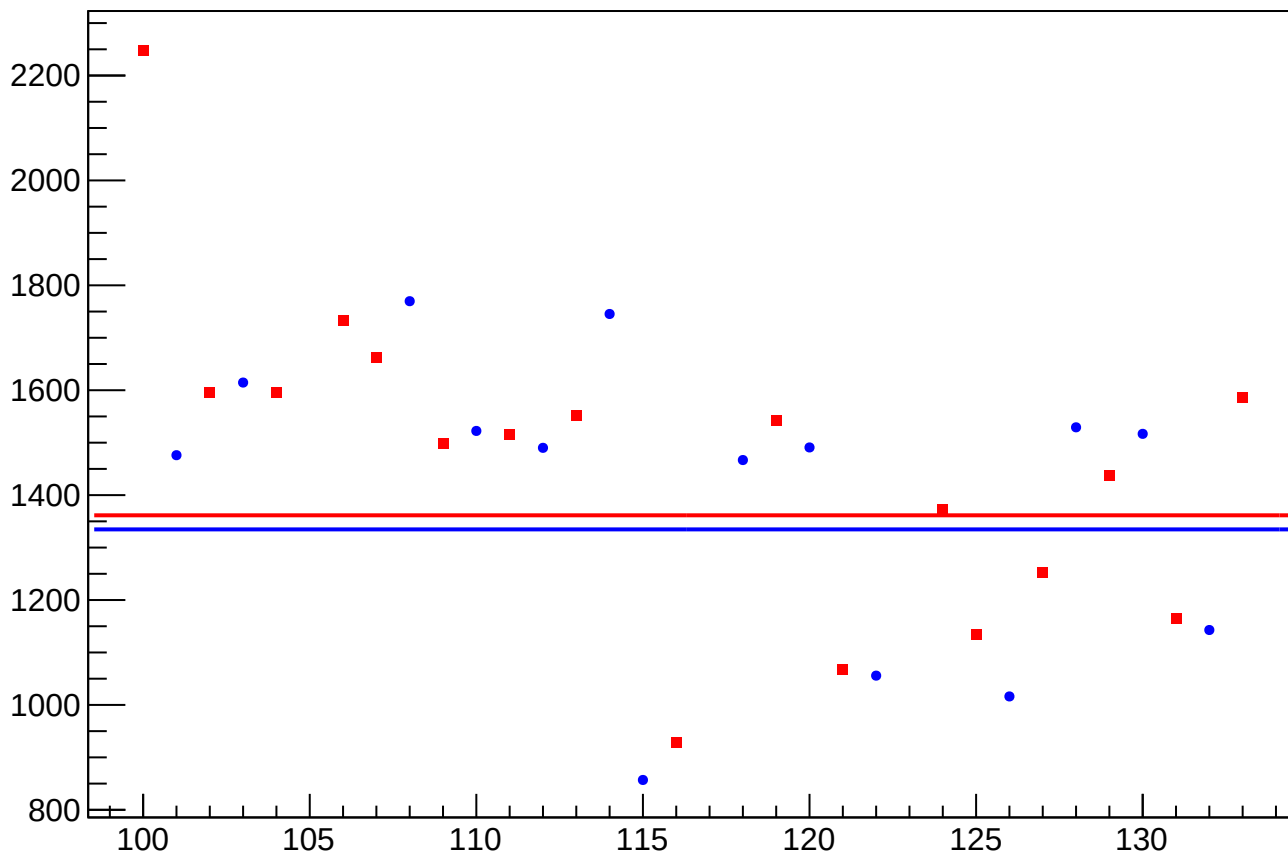
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -711.403+/-385.687  $\chi^2/\text{NDF}$ : 25.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_reg\_correction\_rms vs Slug



Right In: 1334.663+/-0.395  $\chi^2/\text{NDF}$ : 426660.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1361.515+/-0.377  $\chi^2/\text{NDF}$ : 420028.3/16

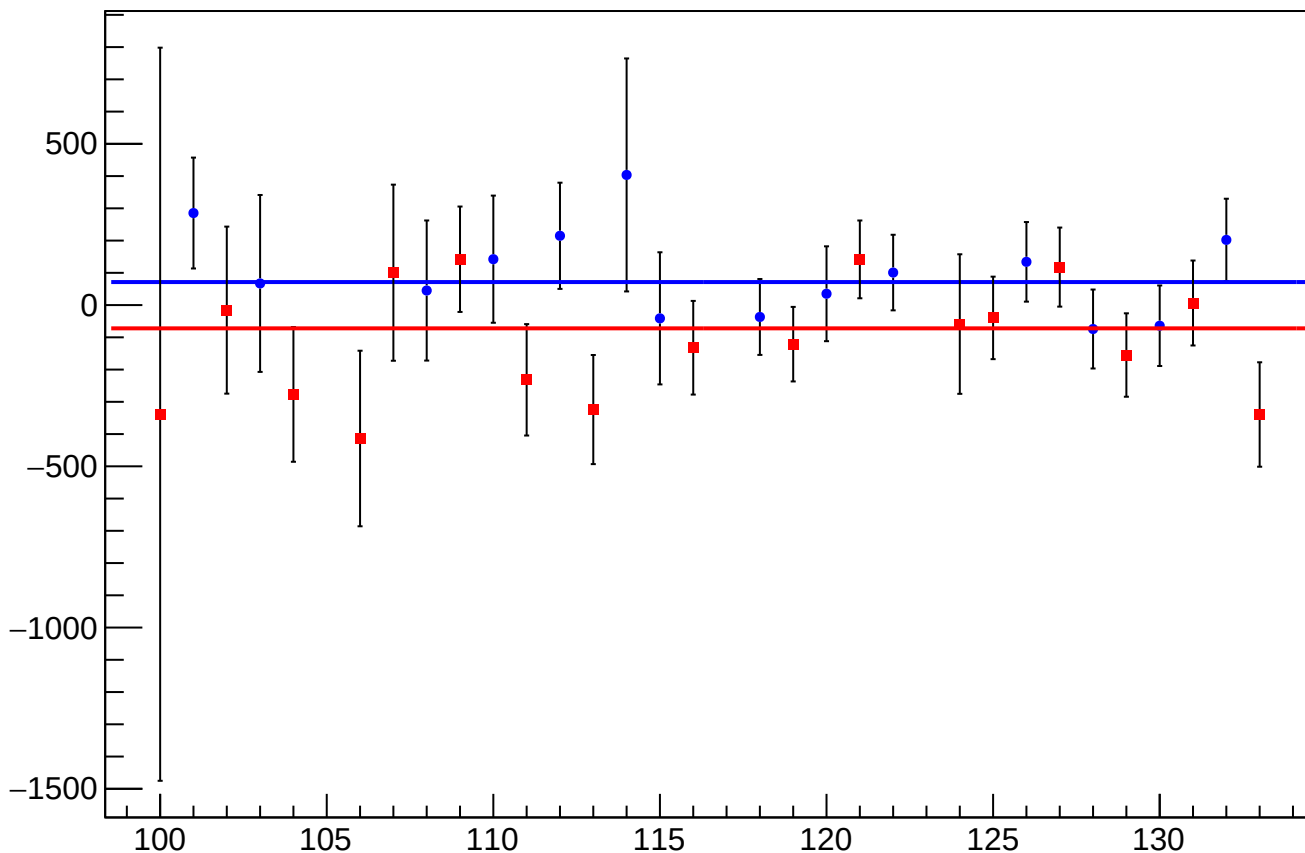
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1348.718+/-0.273  $\chi^2/\text{NDF}$ : 849106.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 71.389 $\pm$ 40.439  $\chi^2$ /NDF: 8.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -72.157 $\pm$ 38.722  $\chi^2$ /NDF: 17.3/16

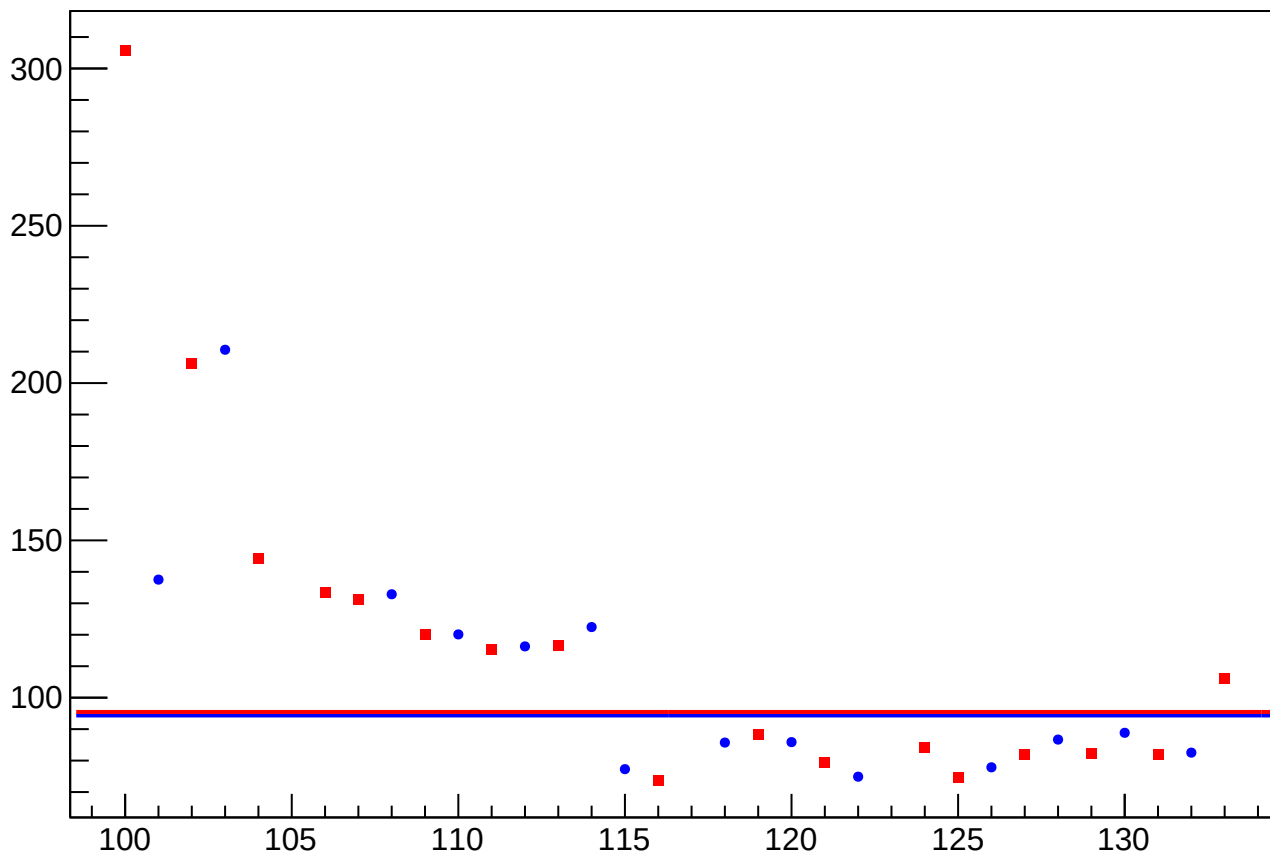
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.496 $\pm$ 27.968  $\chi^2$ /NDF: 32.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 94.347+/-0.029  $\chi^2/\text{NDF}$ : 780991.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 95.463+/-0.027  $\chi^2/\text{NDF}$ : 941214.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

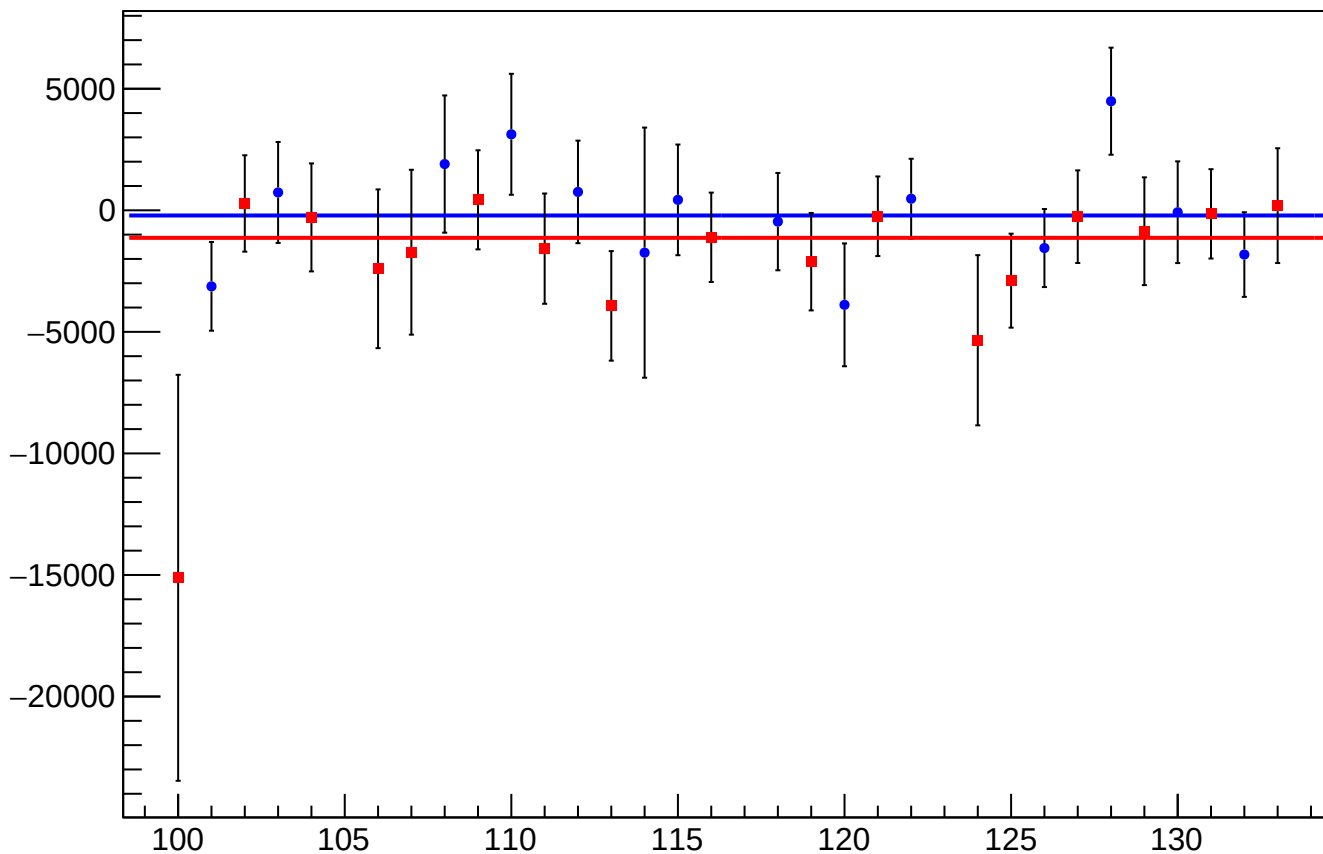
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.929+/-0.020  $\chi^2/\text{NDF}$ : 1723001.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_3726\_avg\_cor\_correction\_mean vs Slug



Right In: -212.838+/-558.684  $\chi^2$ /NDF: 13.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1132.241+/-534.048  $\chi^2$ /NDF: 9.4/16

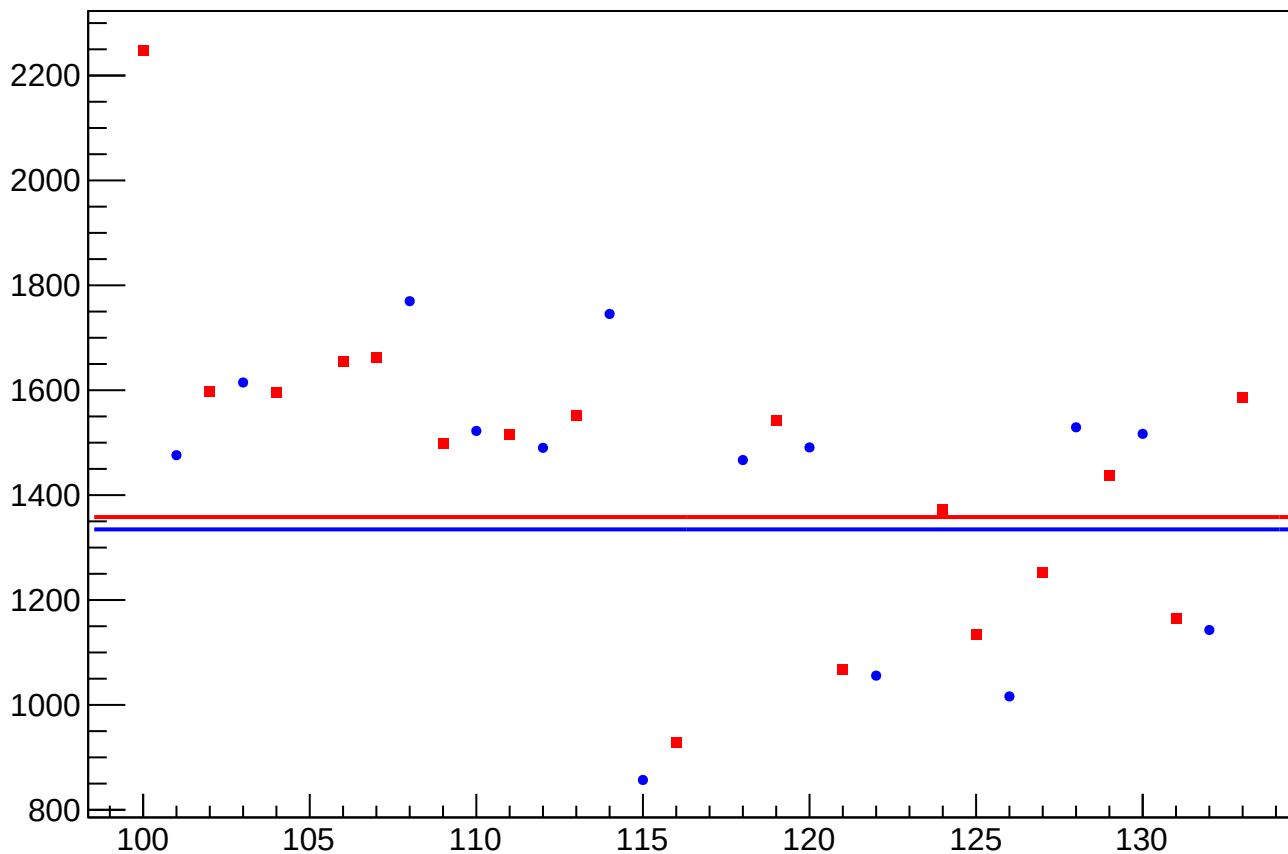
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -693.258+/-386.045  $\chi^2$ /NDF: 24.8/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_cor\_correction\_rms vs Slug



Right In: 1334.667+/-0.395  $\chi^2/\text{NDF}$ : 426686.1/13

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

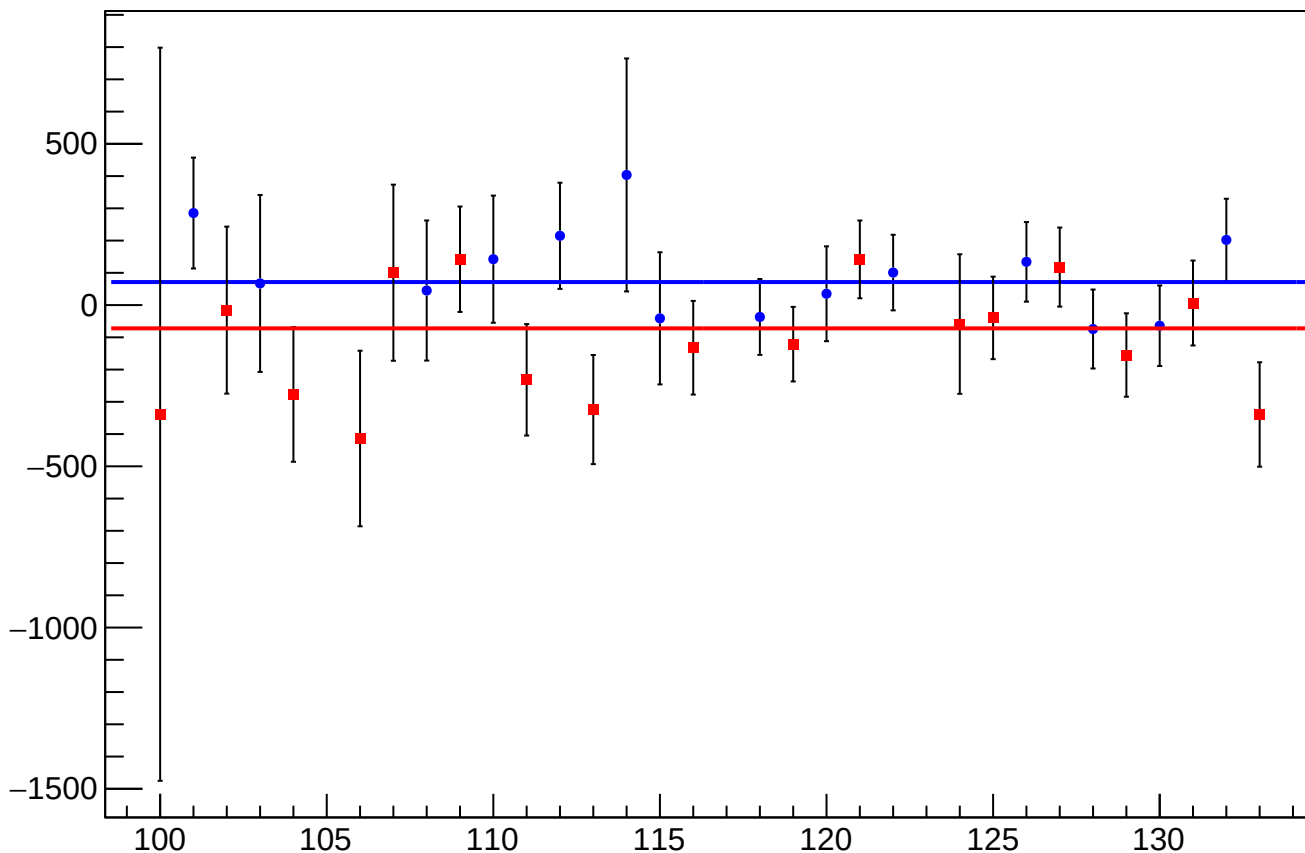
Right Out: 1358.209+/-0.378  $\chi^2/\text{NDF}$ : 407115.2/16

All: 1346.969+/-0.273  $\chi^2/\text{NDF}$ : 835657.0/30

- 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\_sam\_3726\_avg\_mean vs Slug



Right In: 71.389 $\pm$ 40.439  $\chi^2$ /NDF: 8.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -72.157 $\pm$ 38.722  $\chi^2$ /NDF: 17.3/16

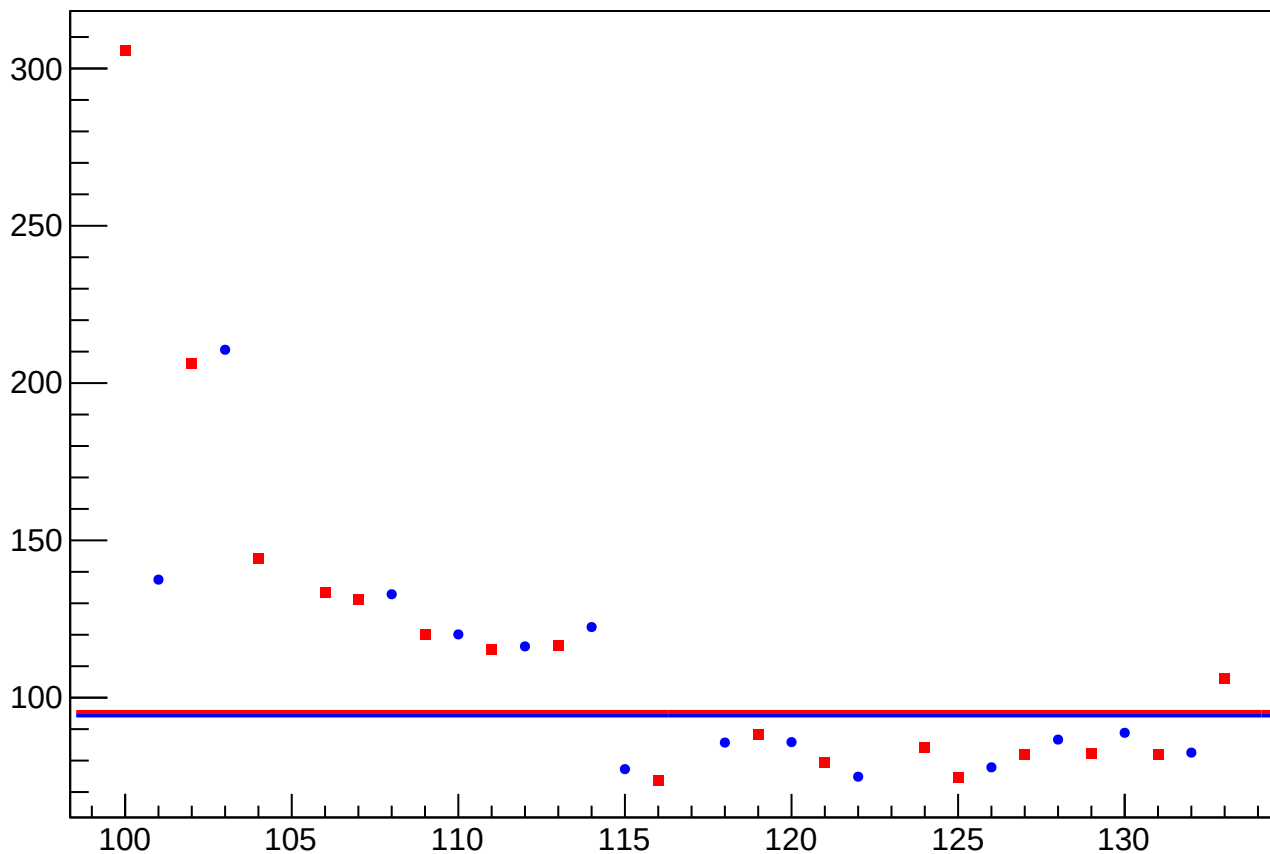
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.496 $\pm$ 27.968  $\chi^2$ /NDF: 32.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 94.347+/-0.029  $\chi^2/\text{NDF}$ : 780991.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 95.463+/-0.027  $\chi^2/\text{NDF}$ : 941214.1/16

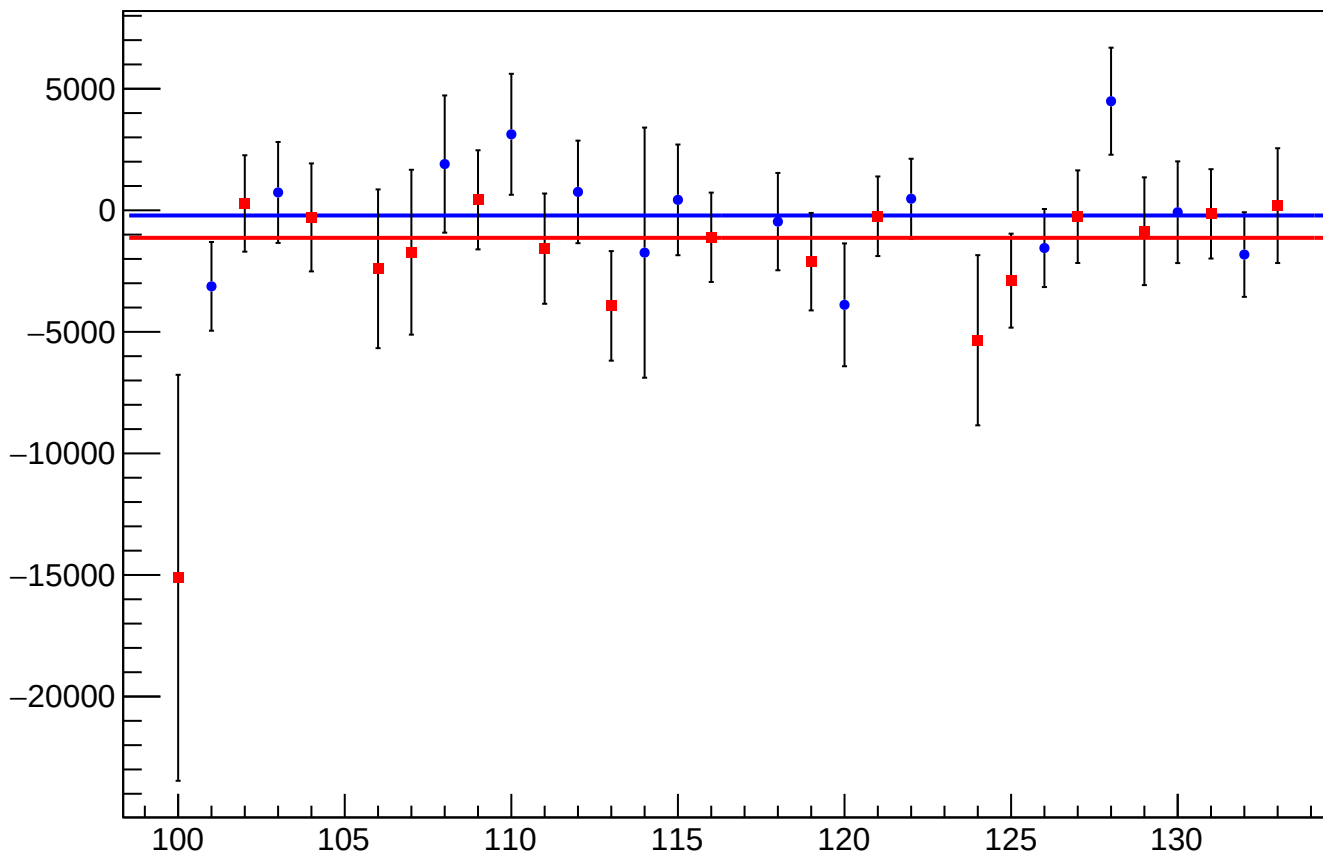
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.929+/-0.020  $\chi^2/\text{NDF}$ : 1723001.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: -212.838+/-558.684  $\chi^2$ /NDF: 13.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1132.241+/-534.048  $\chi^2$ /NDF: 9.4/16

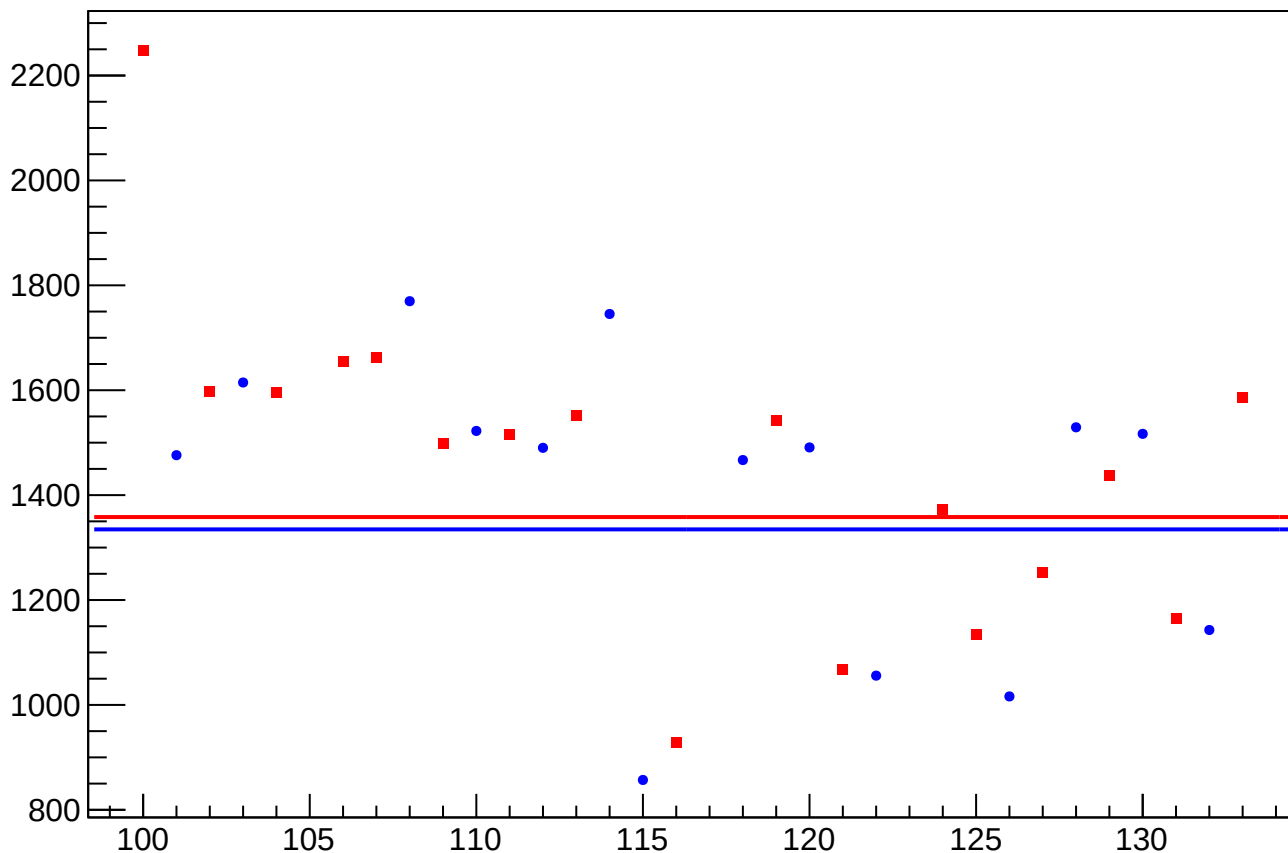
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -693.258+/-386.045  $\chi^2$ /NDF: 24.8/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1334.667+/-0.395  $\chi^2/\text{NDF}$ : 426686.1/13

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

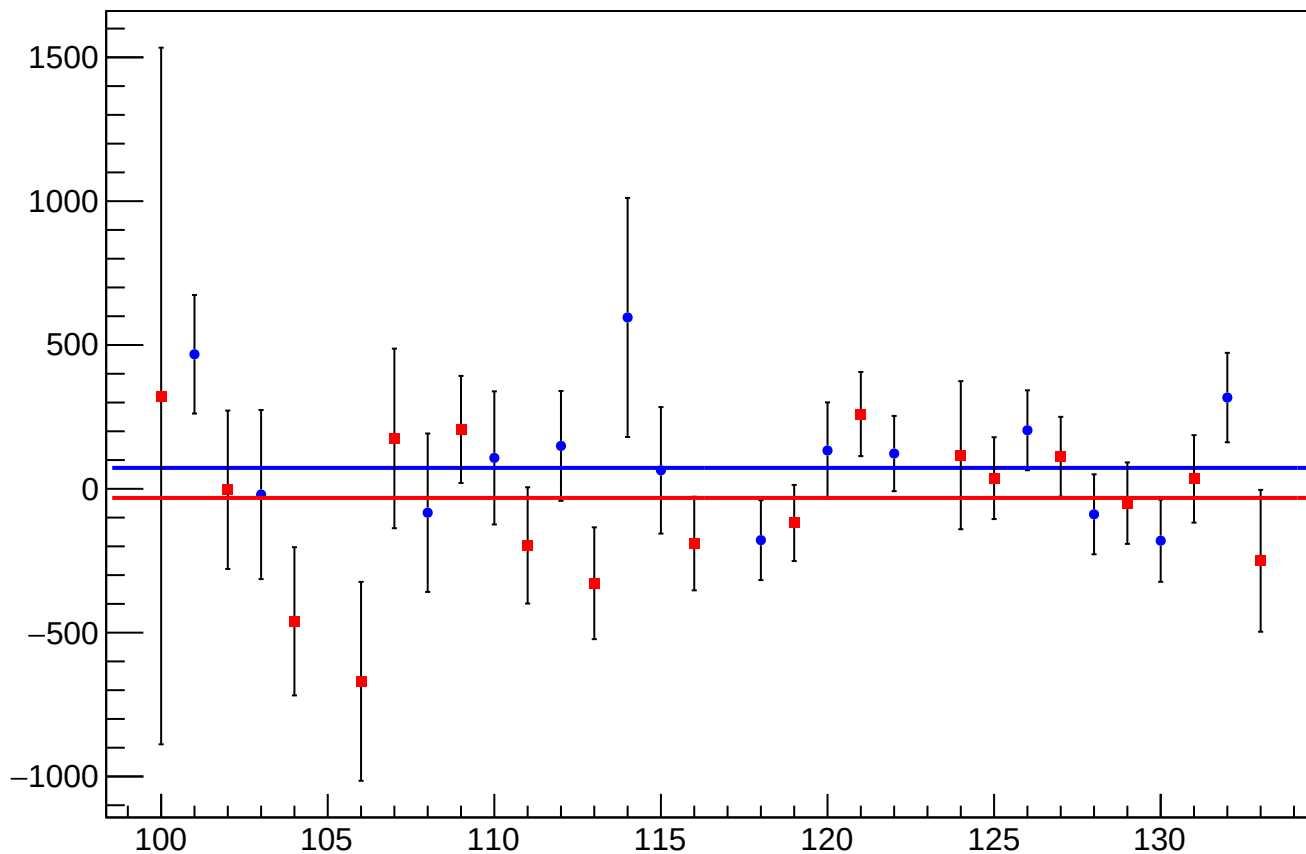
Right Out: 1358.209+/-0.378  $\chi^2/\text{NDF}$ : 407115.2/16

All: 1346.969+/-0.273  $\chi^2/\text{NDF}$ : 835657.0/30

- 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\_sam\_3726\_avg\_mean vs Slug



Right In: 72.759+/-46.581  $\chi^2/\text{NDF}$ : 17.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -31.668+/-44.949  $\chi^2/\text{NDF}$ : 19.3/16

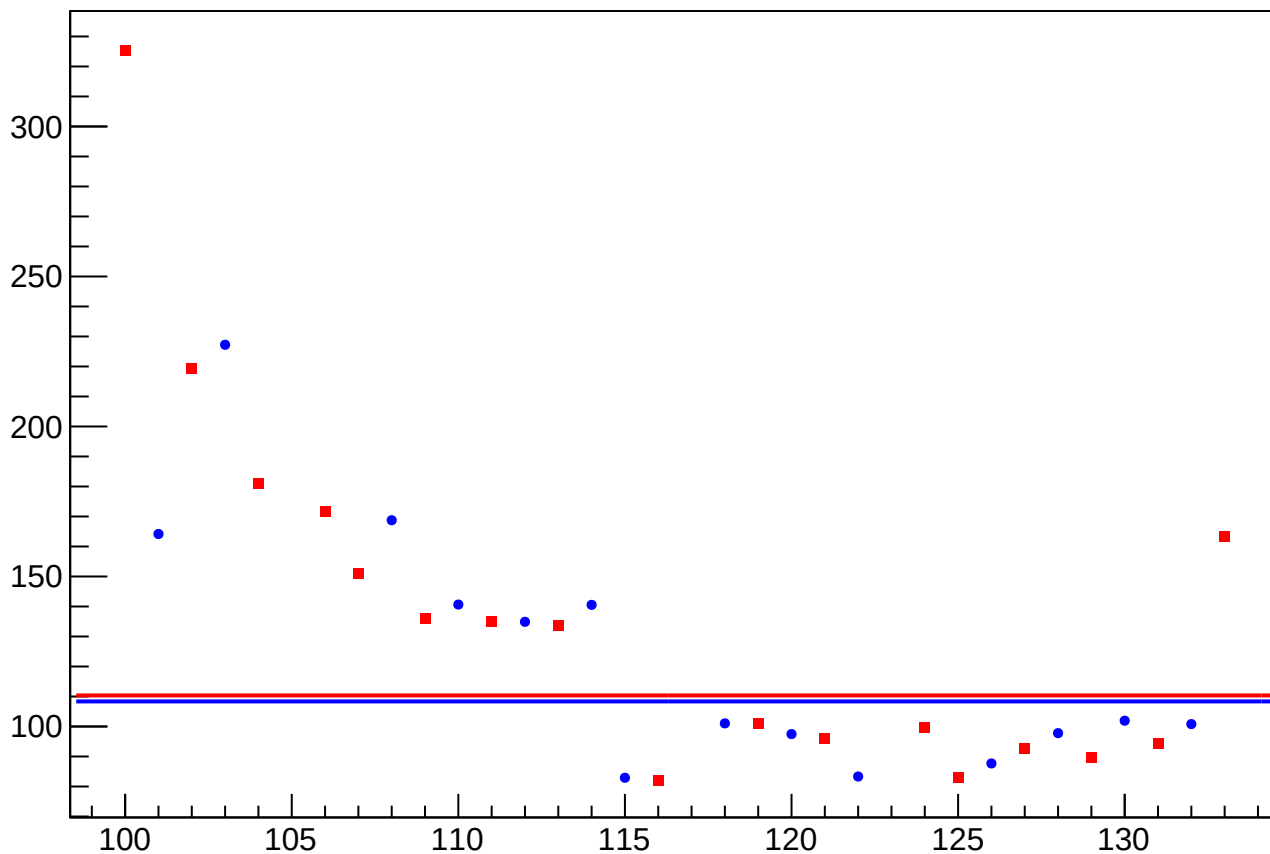
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.683+/-32.345  $\chi^2/\text{NDF}$ : 39.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 108.358+/-0.033  $\chi^2/\text{NDF}$ : 838218.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 110.358+/-0.032  $\chi^2/\text{NDF}$ : 1076273.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

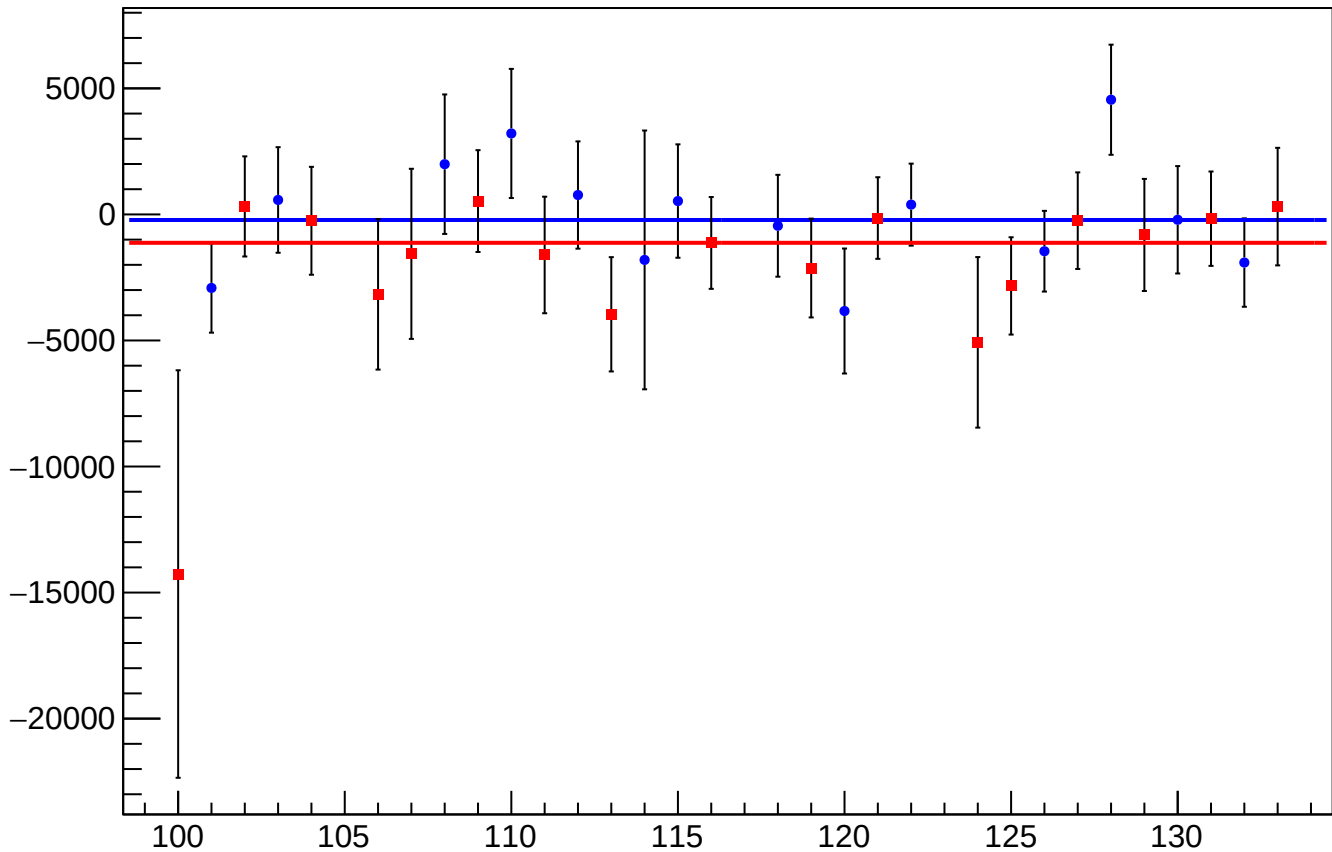
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 109.394+/-0.023  $\chi^2/\text{NDF}$ : 1916401.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_3726\_avg\_dit\_correction\_mean vs Slug



Right In: -221.074+/-557.529  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1125.997+/-530.158  $\chi^2/\text{NDF}$ : 9.8/16

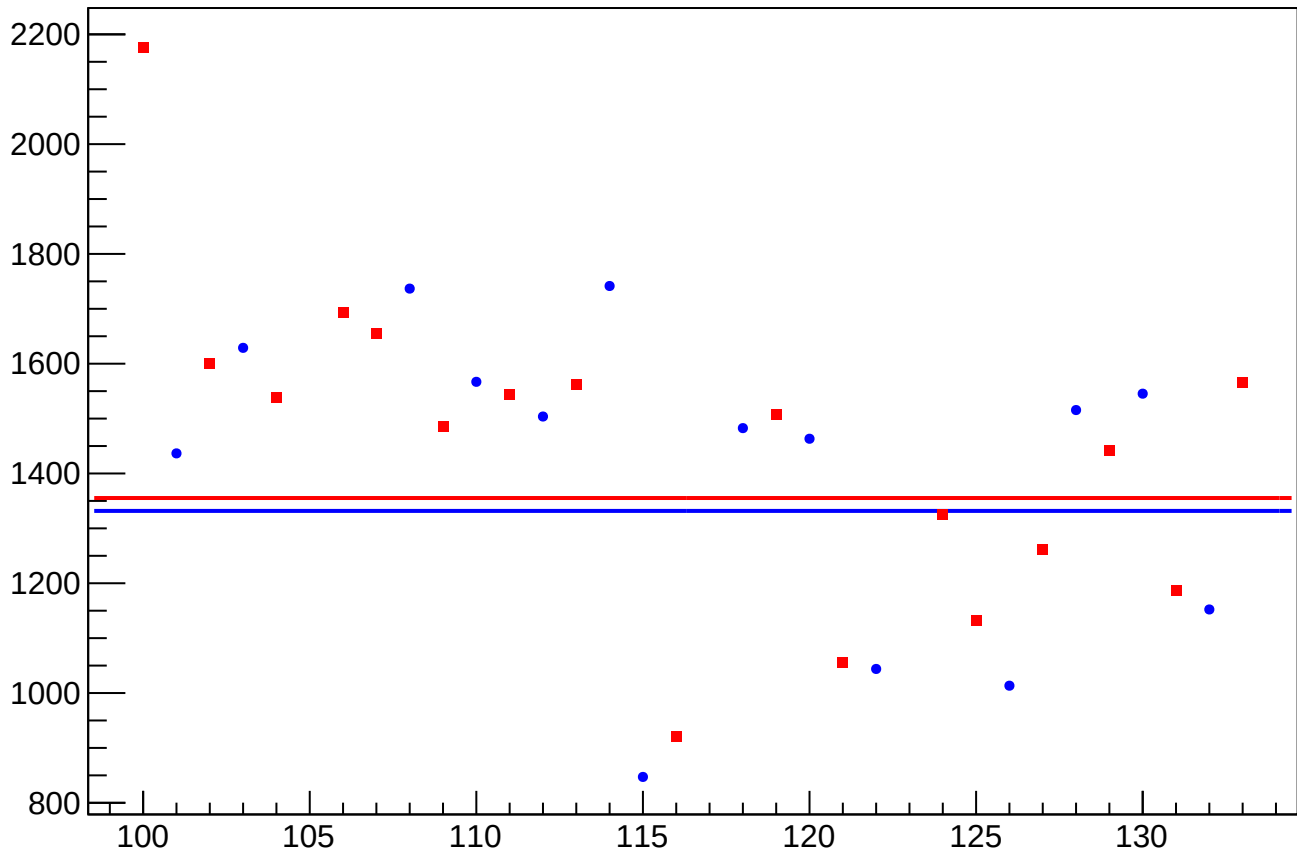
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -696.293+/-384.190  $\chi^2/\text{NDF}$ : 25.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3726\_avg\_dit\_correction\_rms vs Slug



Right In: 1331.791+/-0.394  $\chi^2/\text{NDF}$ : 439511.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1355.286+/-0.375  $\chi^2/\text{NDF}$ : 407273.5/16

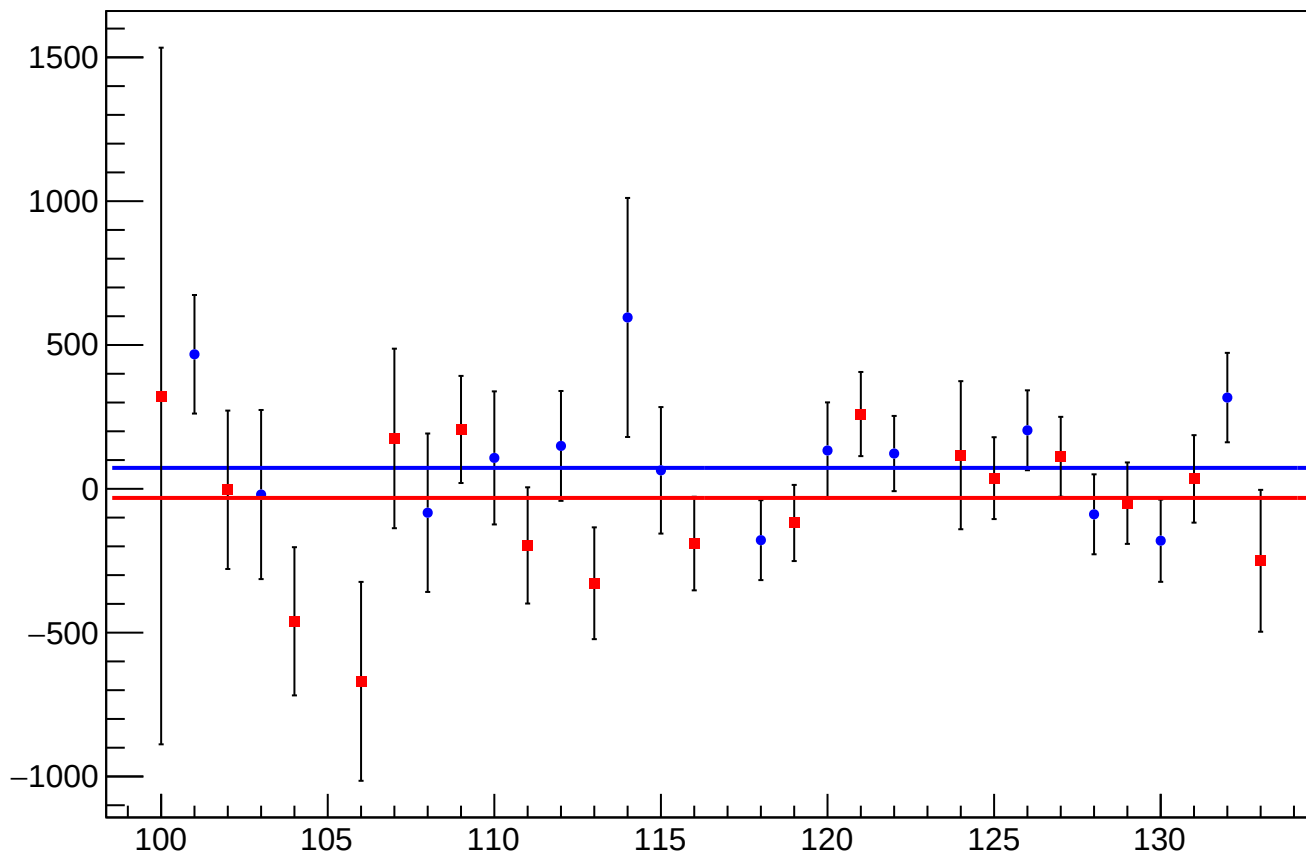
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1344.129+/-0.272  $\chi^2/\text{NDF}$ : 848650.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 72.758+/-46.581  $\chi^2/\text{NDF}$ : 17.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -31.664+/-44.949  $\chi^2/\text{NDF}$ : 19.3/16

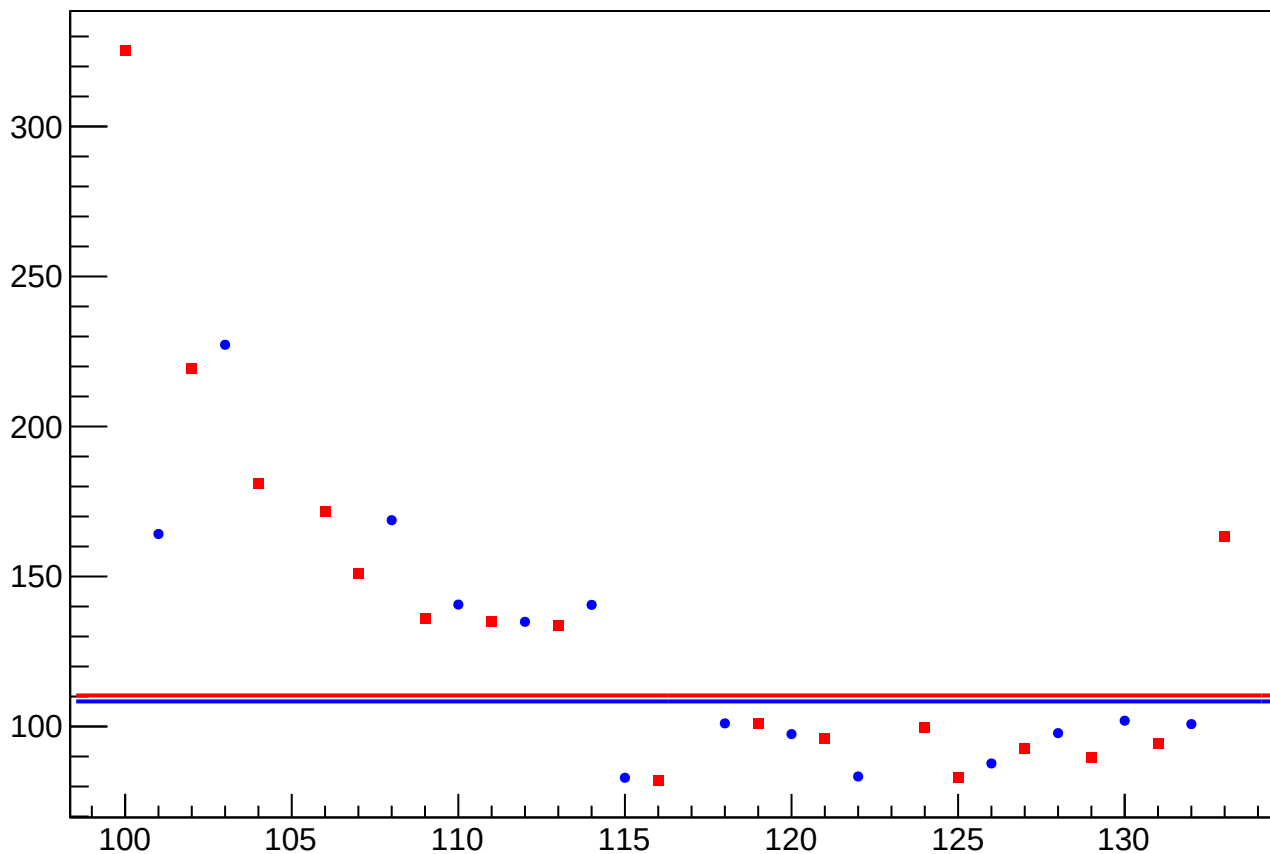
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.685+/-32.345  $\chi^2/\text{NDF}$ : 39.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 108.358+/-0.033  $\chi^2/\text{NDF}$ : 838215.4/13

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

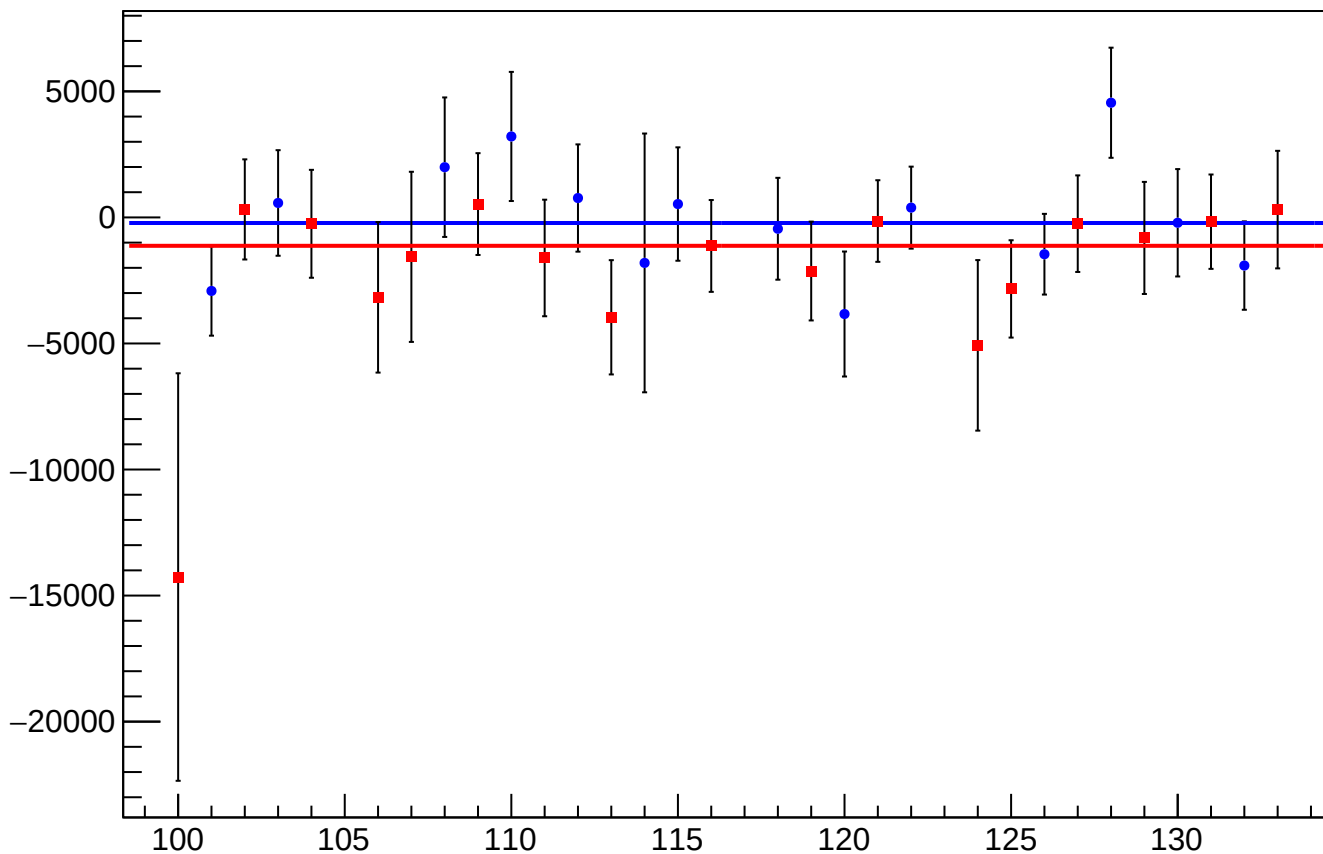
Right Out: 110.358+/-0.032  $\chi^2/\text{NDF}$ : 1076273.5/16

All: 109.394+/-0.023  $\chi^2/\text{NDF}$ : 1916398.3/30

- 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\_3726\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: -221.073+/-557.528  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1125.994+/-530.157  $\chi^2/\text{NDF}$ : 9.8/16

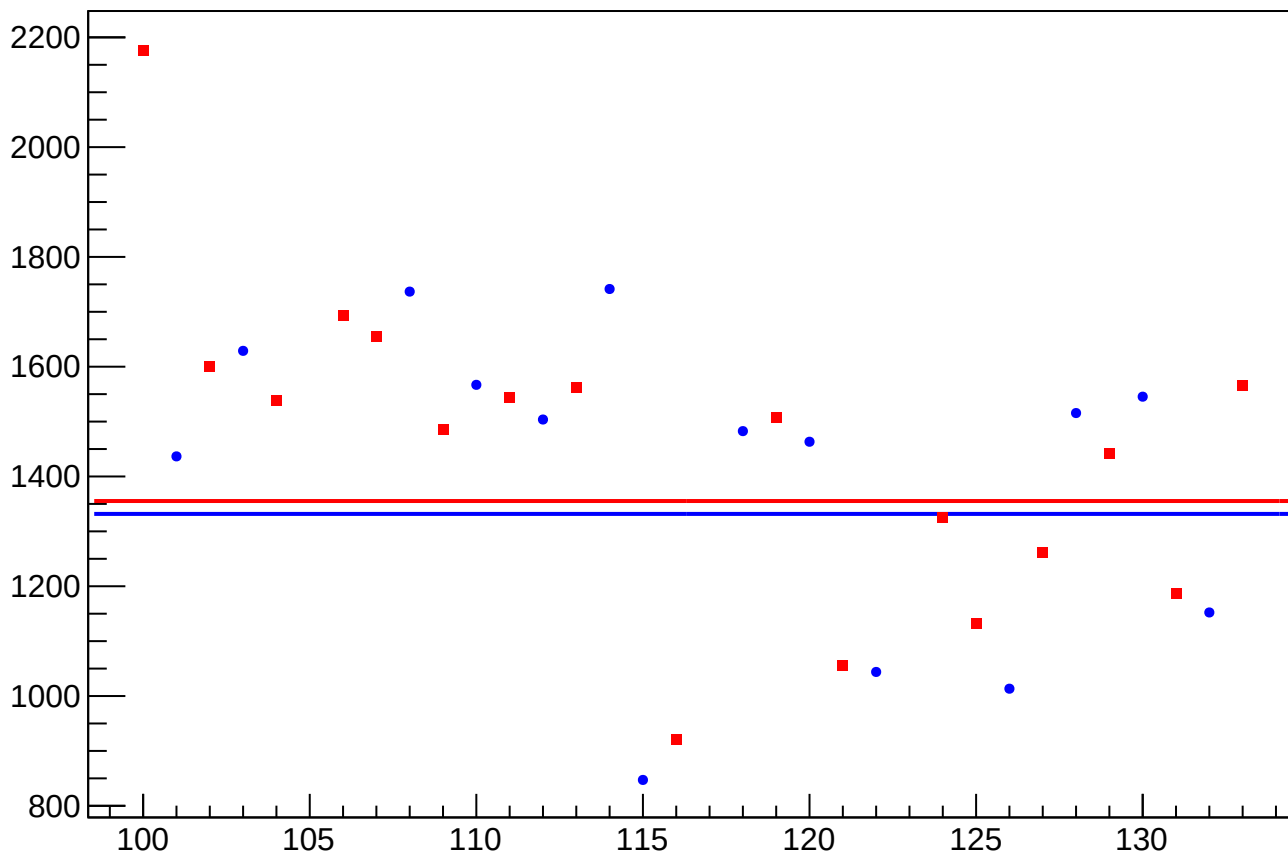
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -696.291+/-384.189  $\chi^2/\text{NDF}$ : 25.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1331.787 $\pm$ 0.394  $\chi^2$ /NDF: 439506.7/13

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

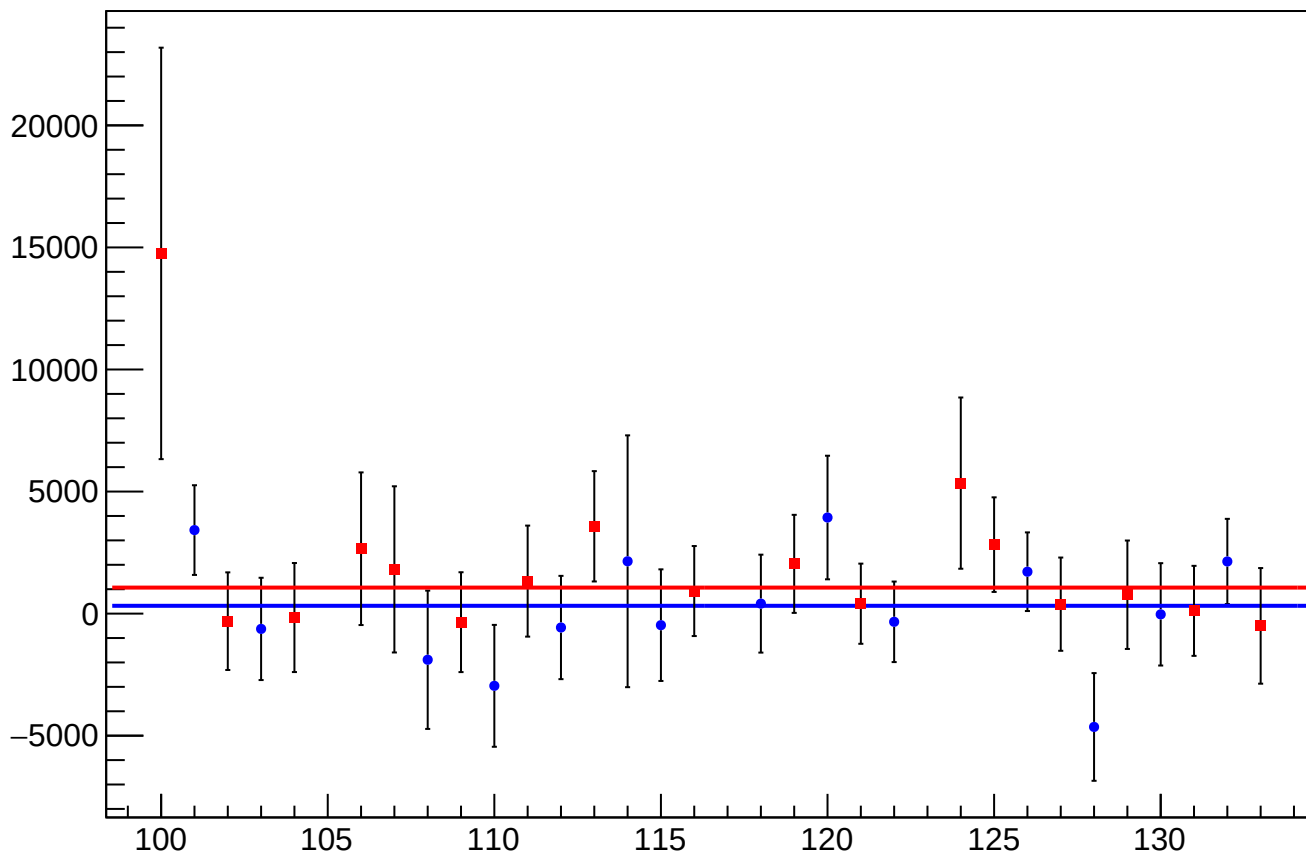
Right Out: 1355.283 $\pm$ 0.375  $\chi^2$ /NDF: 407270.0/16

All: 1344.126 $\pm$ 0.272  $\chi^2$ /NDF: 848642.1/30

- 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\_sam\_3726\_avg\_mean vs Slug



Right In: 320.151+/-560.714  $\chi^2/\text{NDF}$ : 14.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1066.142+/-535.147  $\chi^2/\text{NDF}$ : 9.0/16

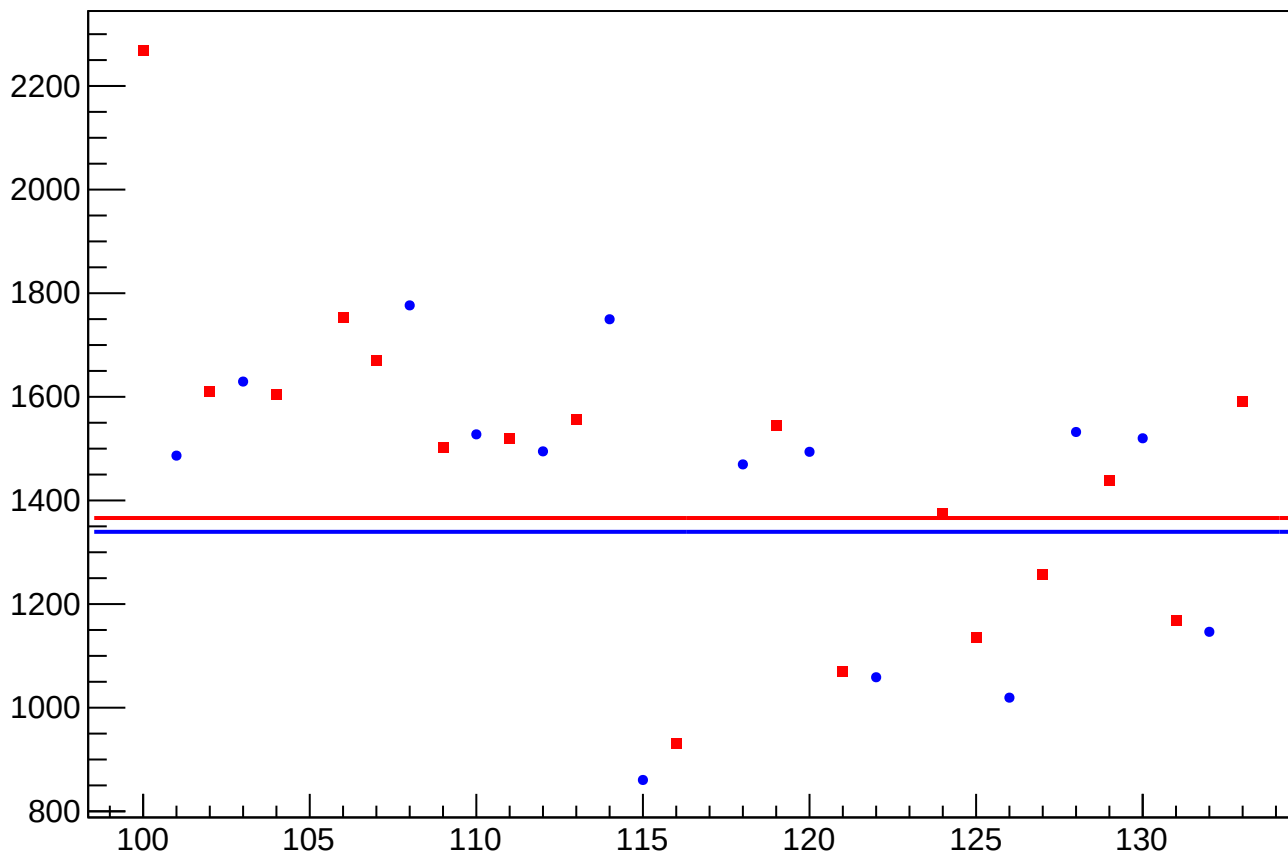
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 710.542+/-387.129  $\chi^2/\text{NDF}$ : 24.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3726\_avg\_rms vs Slug



Right In: 1339.450+/-0.396  $\chi^2/\text{NDF}$ : 428675.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1366.117+/-0.378  $\chi^2/\text{NDF}$ : 424356.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

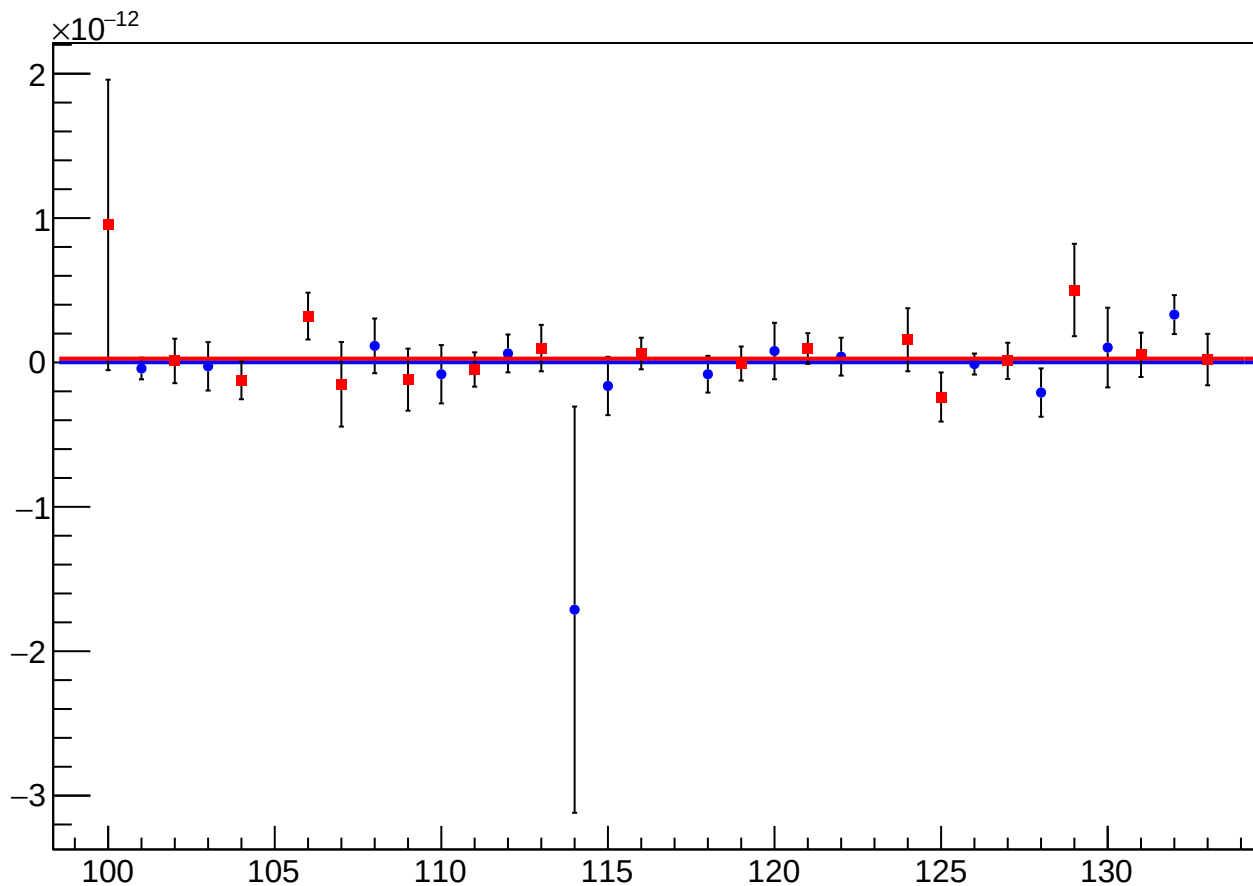
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1353.406+/-0.274  $\chi^2/\text{NDF}$ : 855399.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_3726\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.6/16

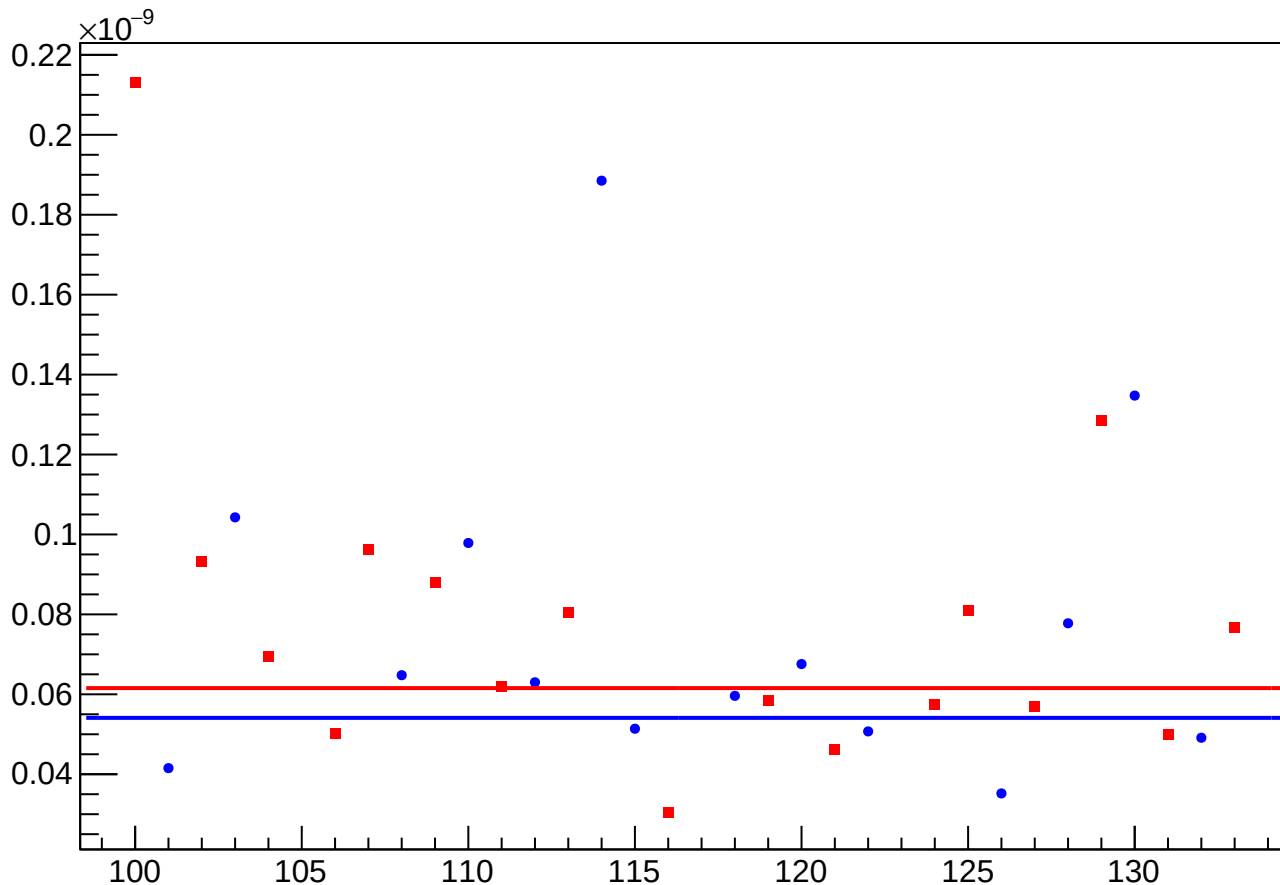
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 24.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 725967.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 580573.9/16

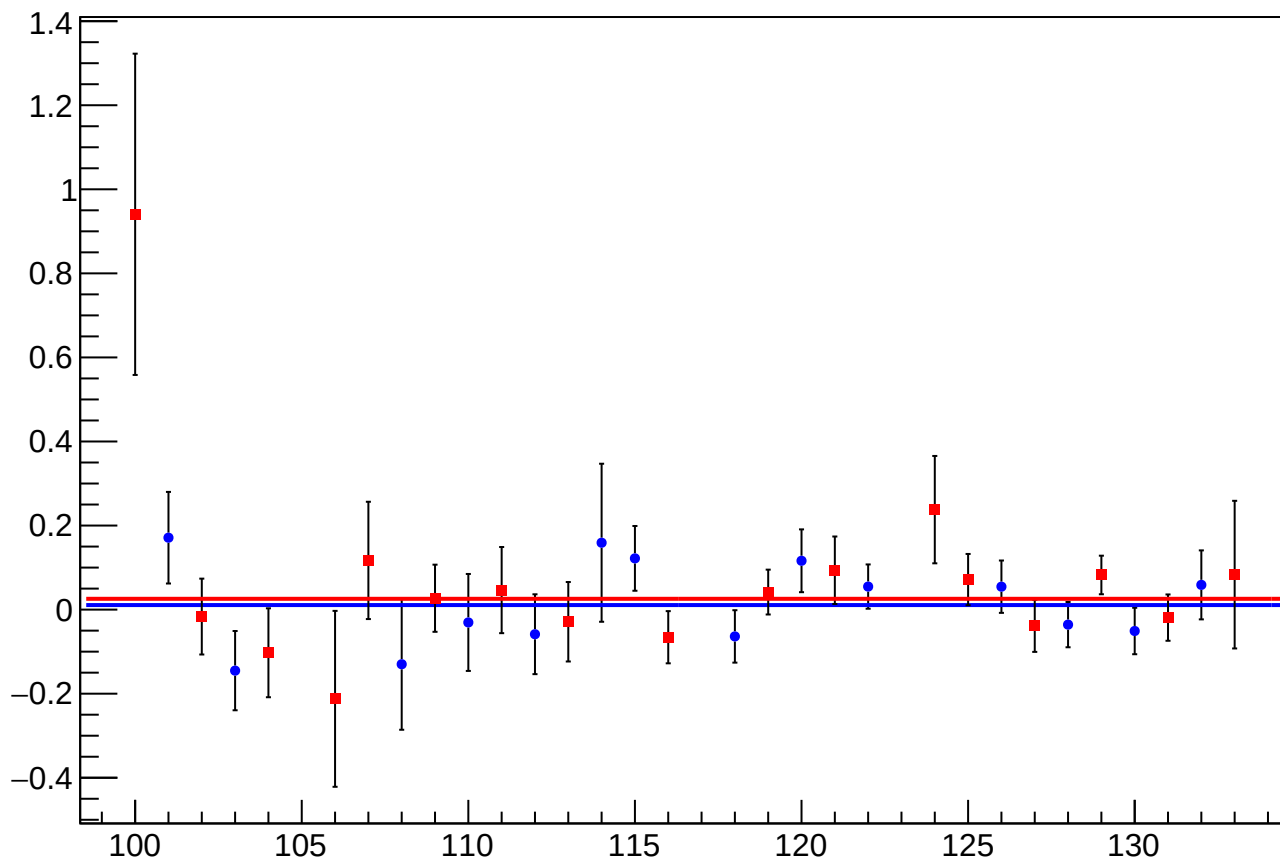
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1348481.0/30

- 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: 0.011 $\pm$ 0.020  $\chi^2$ /NDF: 16.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.026 $\pm$ 0.019  $\chi^2$ /NDF: 19.2/16

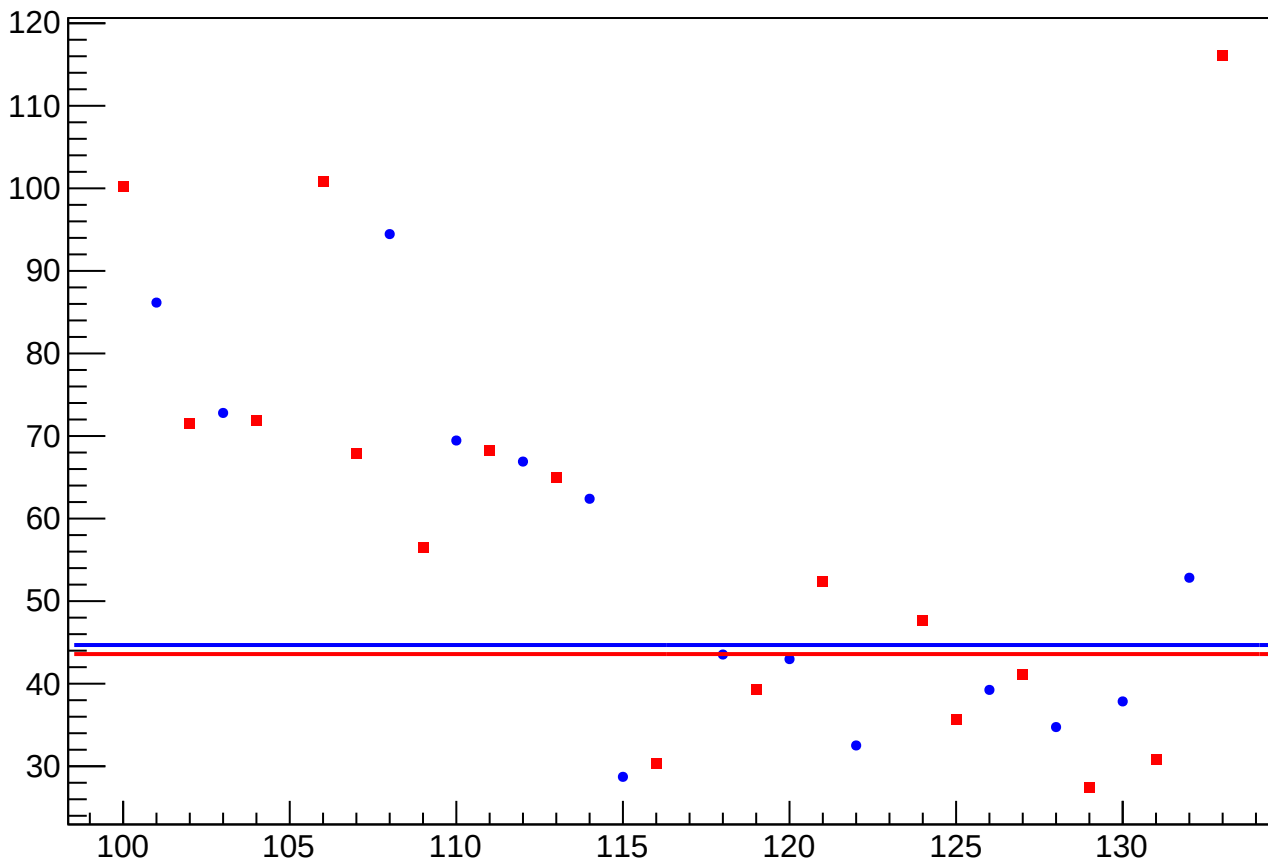
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.014  $\chi^2$ /NDF: 35.5/30

- 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: 44.684 $\pm$ 0.014  $\chi^2$ /NDF: 1218773.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 43.588 $\pm$ 0.013  $\chi^2$ /NDF: 1721589.5/16

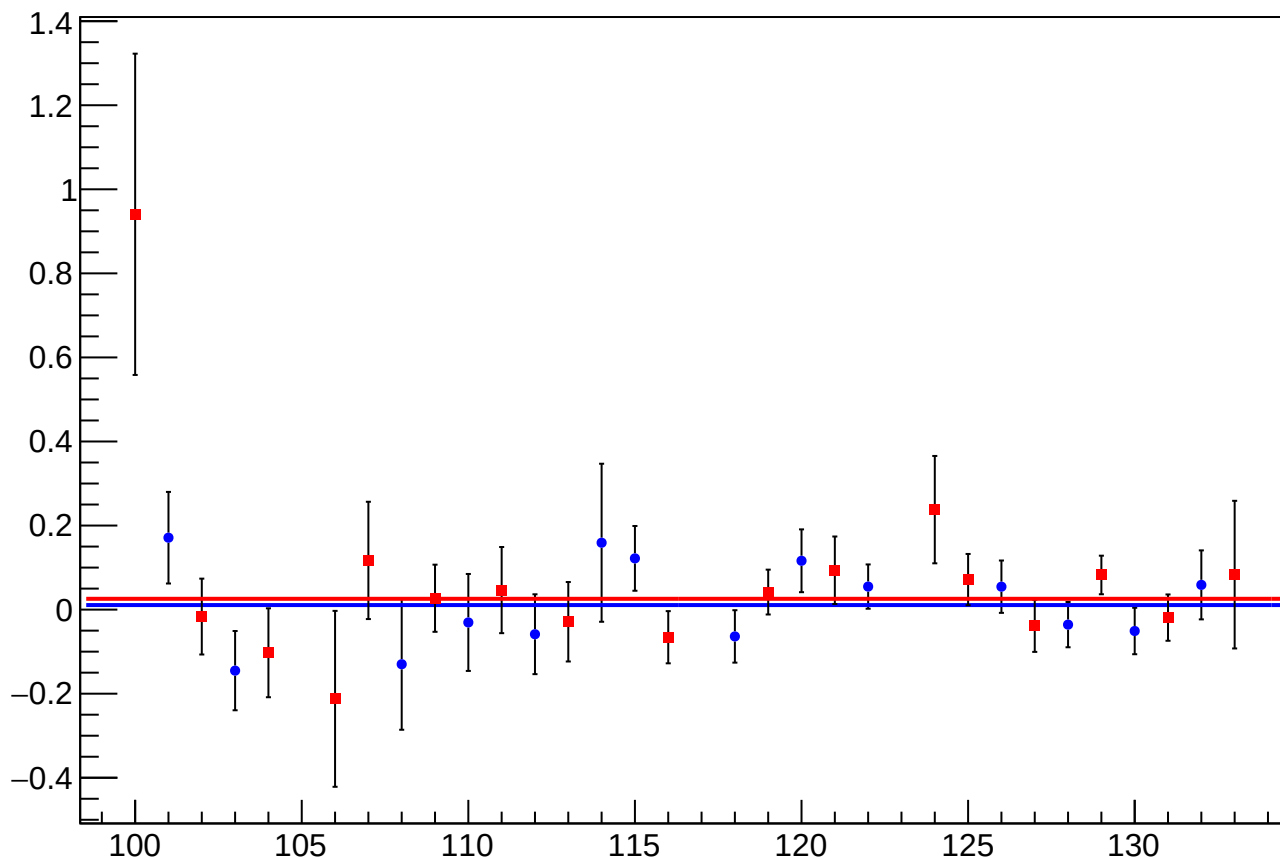
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 44.099 $\pm$ 0.010  $\chi^2$ /NDF: 2943561.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.011 $\pm$ 0.020  $\chi^2$ /NDF: 16.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.026 $\pm$ 0.019  $\chi^2$ /NDF: 19.2/16

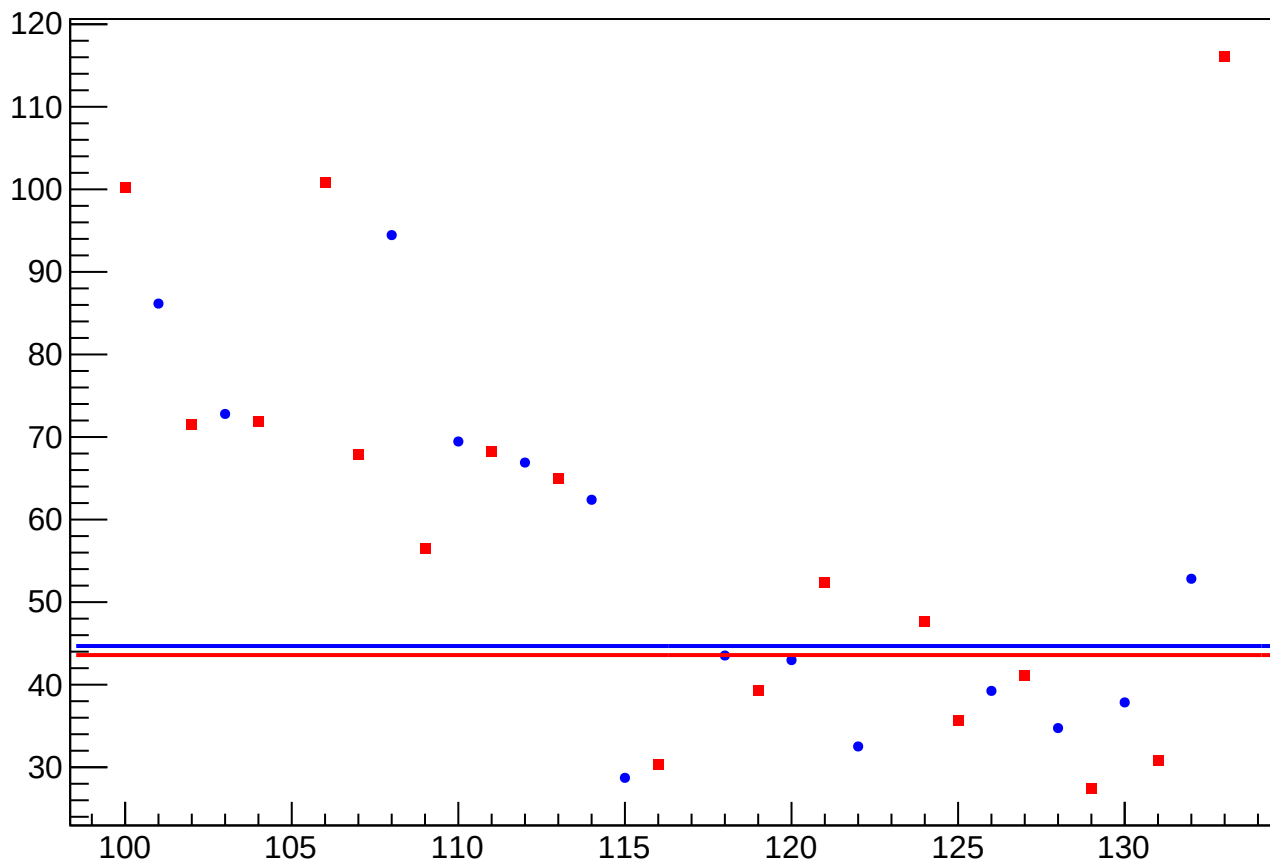
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.014  $\chi^2$ /NDF: 35.5/30

- 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: 44.684 $\pm$ 0.014  $\chi^2$ /NDF: 1218773.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 43.588 $\pm$ 0.013  $\chi^2$ /NDF: 1721589.5/16

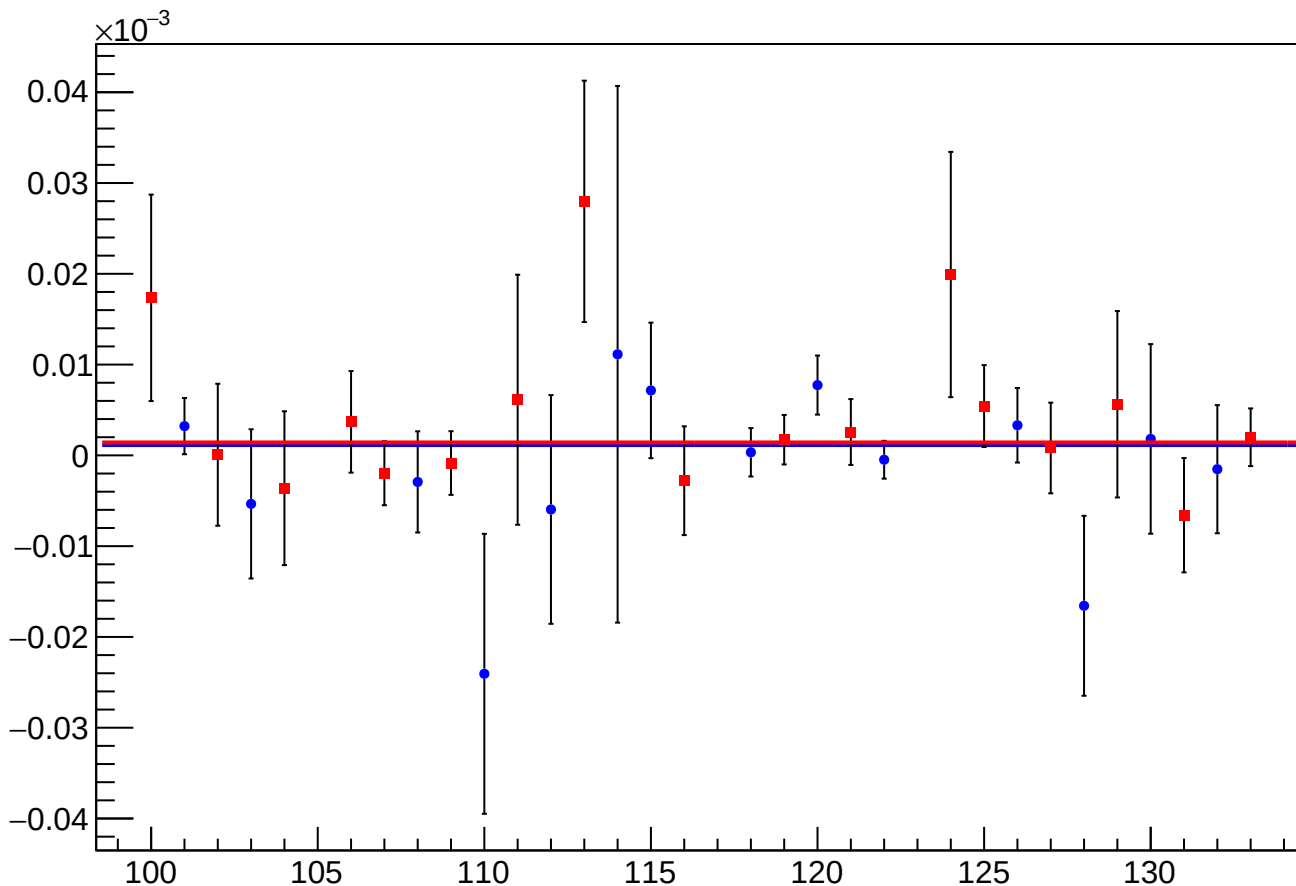
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 44.099 $\pm$ 0.010  $\chi^2$ /NDF: 2943561.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.1/16

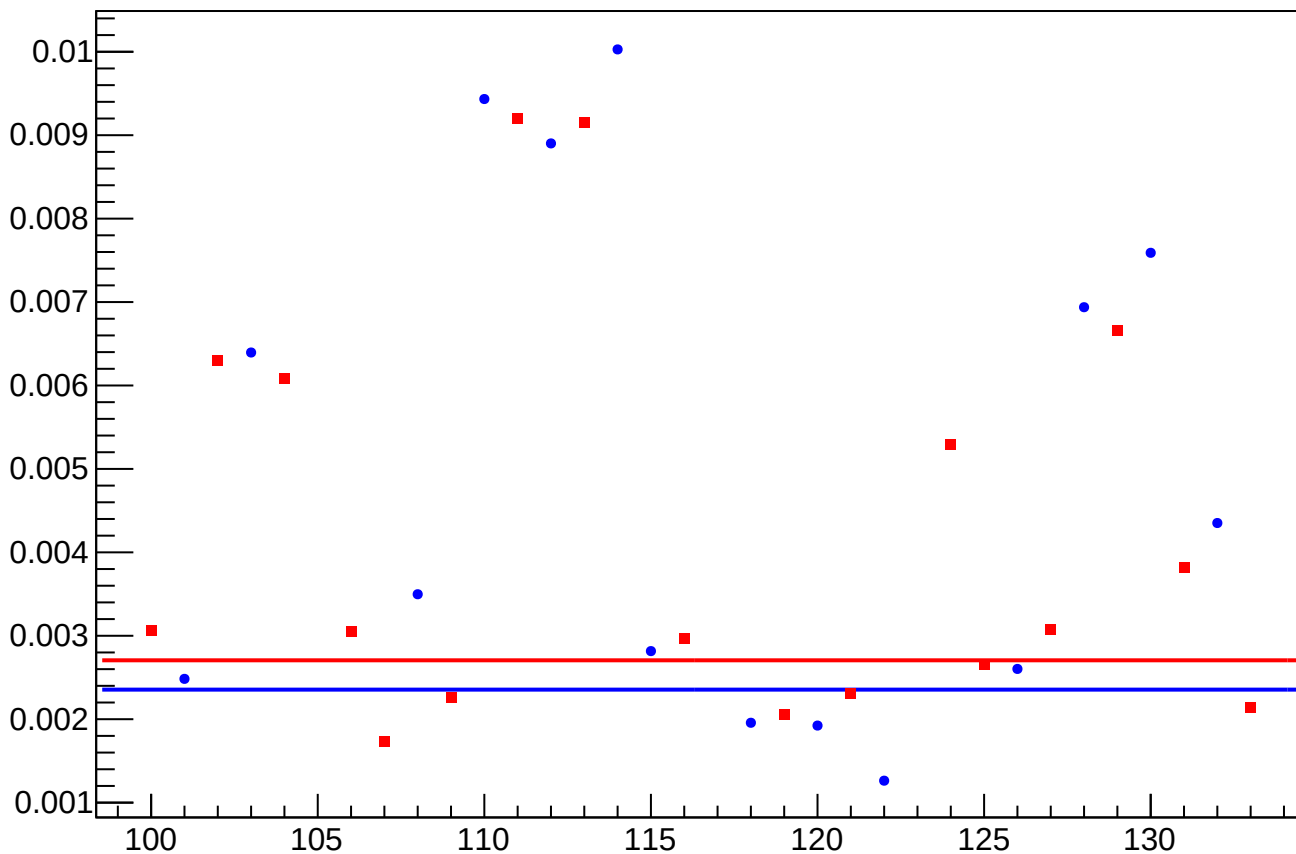
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 26.9/30

- 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: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3401050.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2499100.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

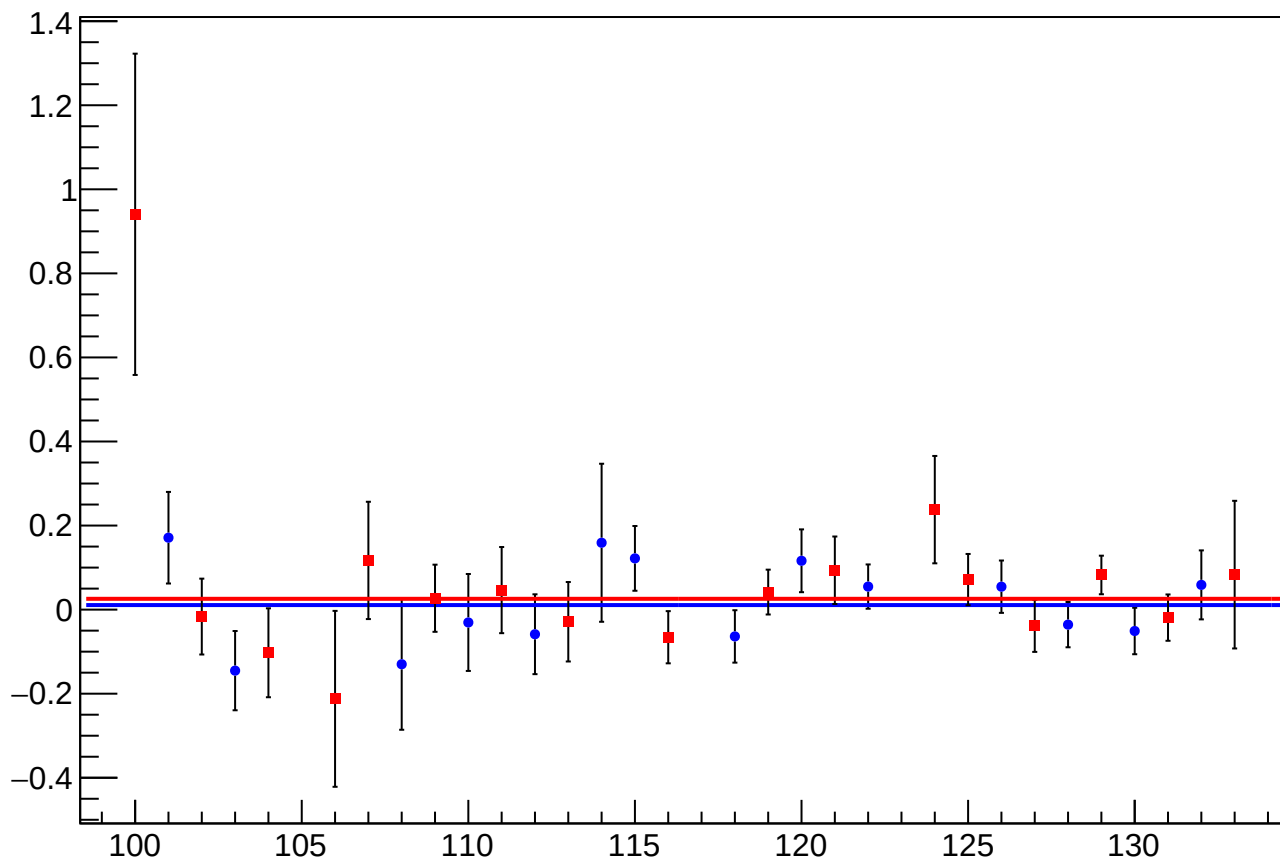
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 5989938.5/30

- 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: 0.011 $\pm$ 0.020  $\chi^2$ /NDF: 16.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.026 $\pm$ 0.019  $\chi^2$ /NDF: 19.2/16

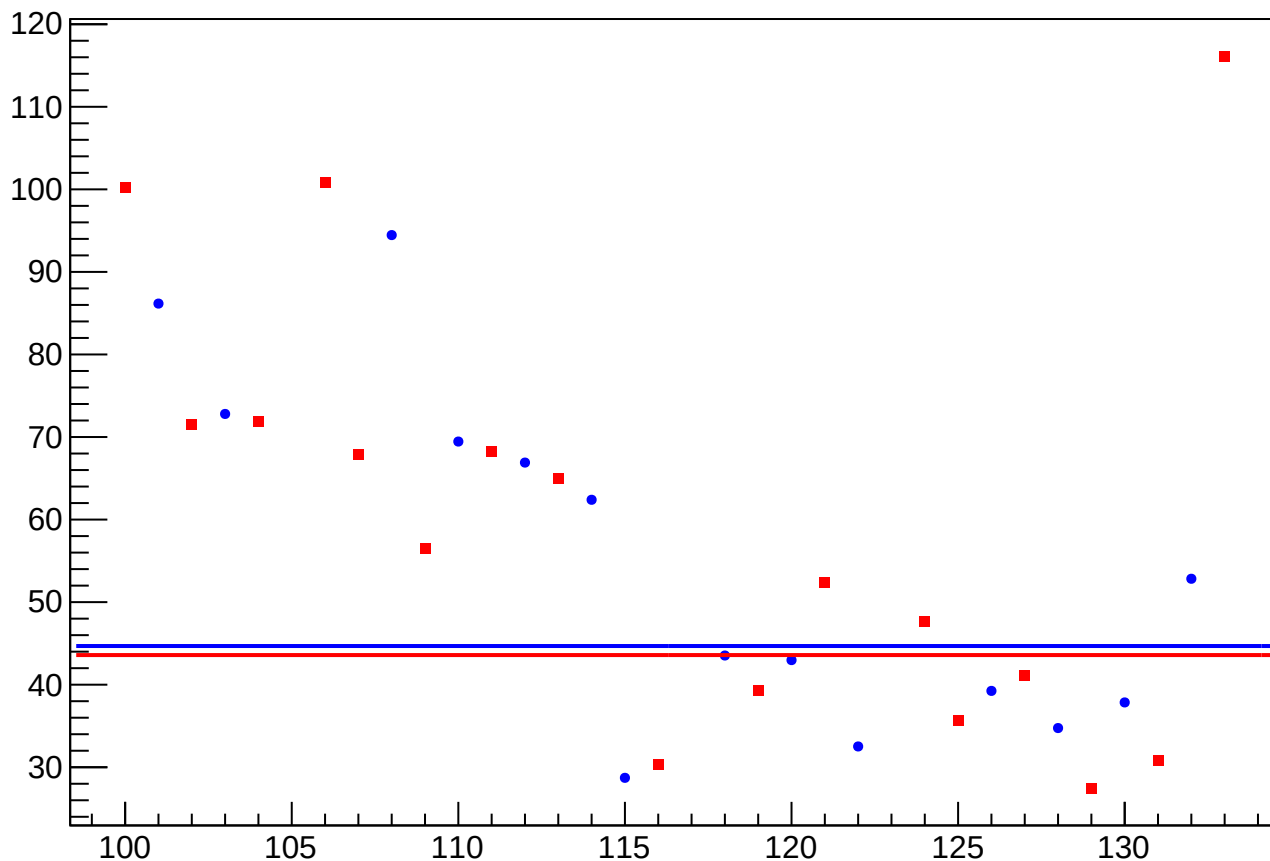
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.019 $\pm$ 0.014  $\chi^2$ /NDF: 35.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 44.684 $\pm$ 0.014  $\chi^2$ /NDF: 1218726.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 43.588 $\pm$ 0.013  $\chi^2$ /NDF: 1721515.5/16

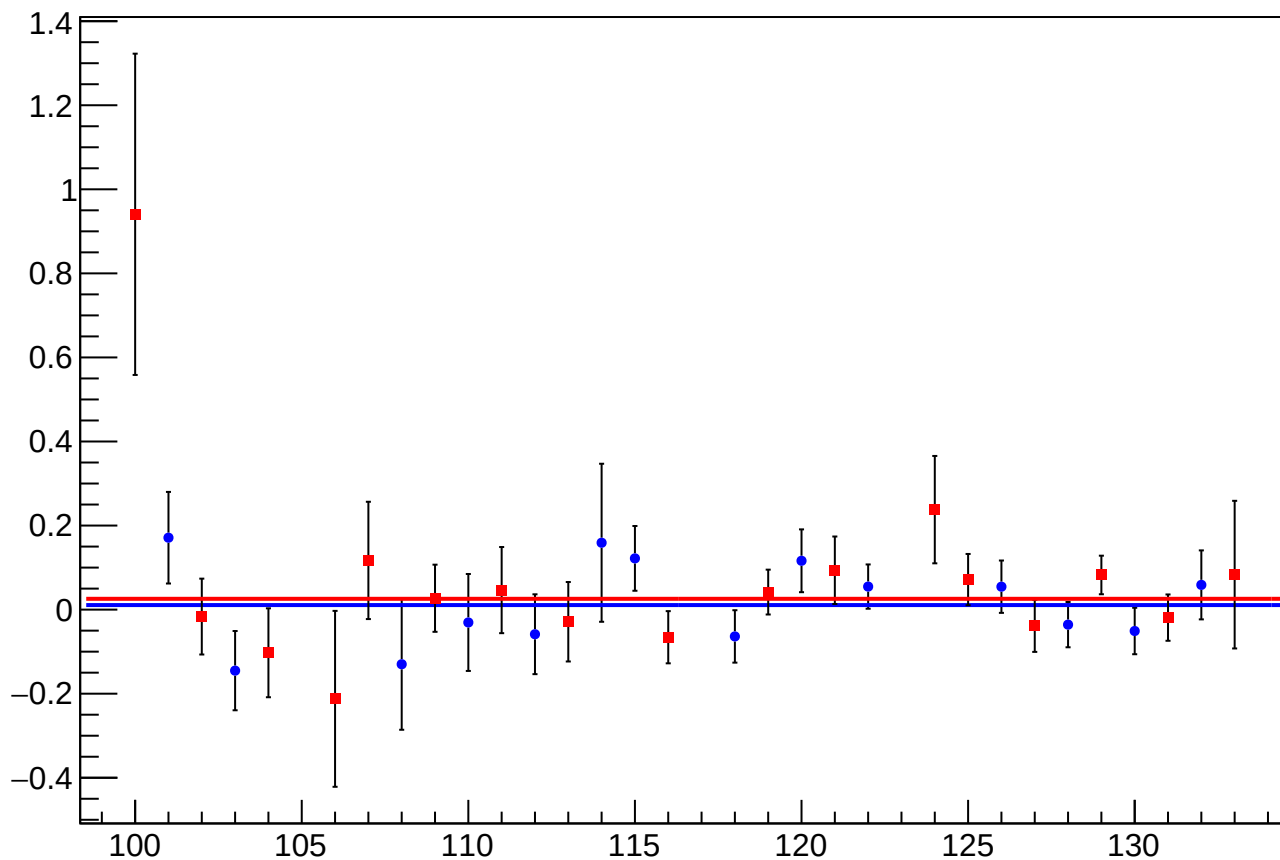
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 44.100 $\pm$ 0.010  $\chi^2$ /NDF: 2943437.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.011+/-0.020  $\chi^2/\text{NDF}$ : 16.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.026+/-0.019  $\chi^2/\text{NDF}$ : 19.2/16

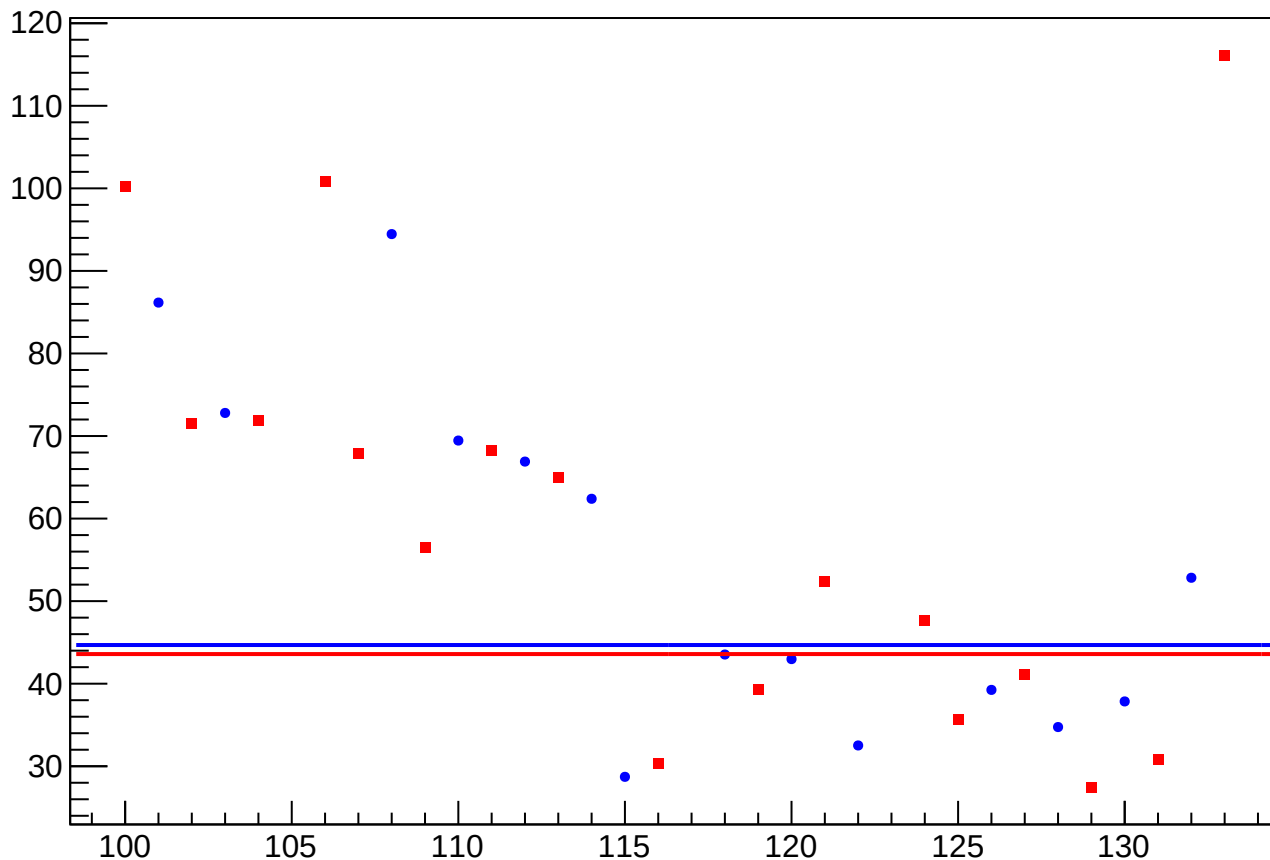
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.019+/-0.014  $\chi^2/\text{NDF}$ : 35.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 44.684 $\pm$ 0.014  $\chi^2$ /NDF: 1218726.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 43.588 $\pm$ 0.013  $\chi^2$ /NDF: 1721515.5/16

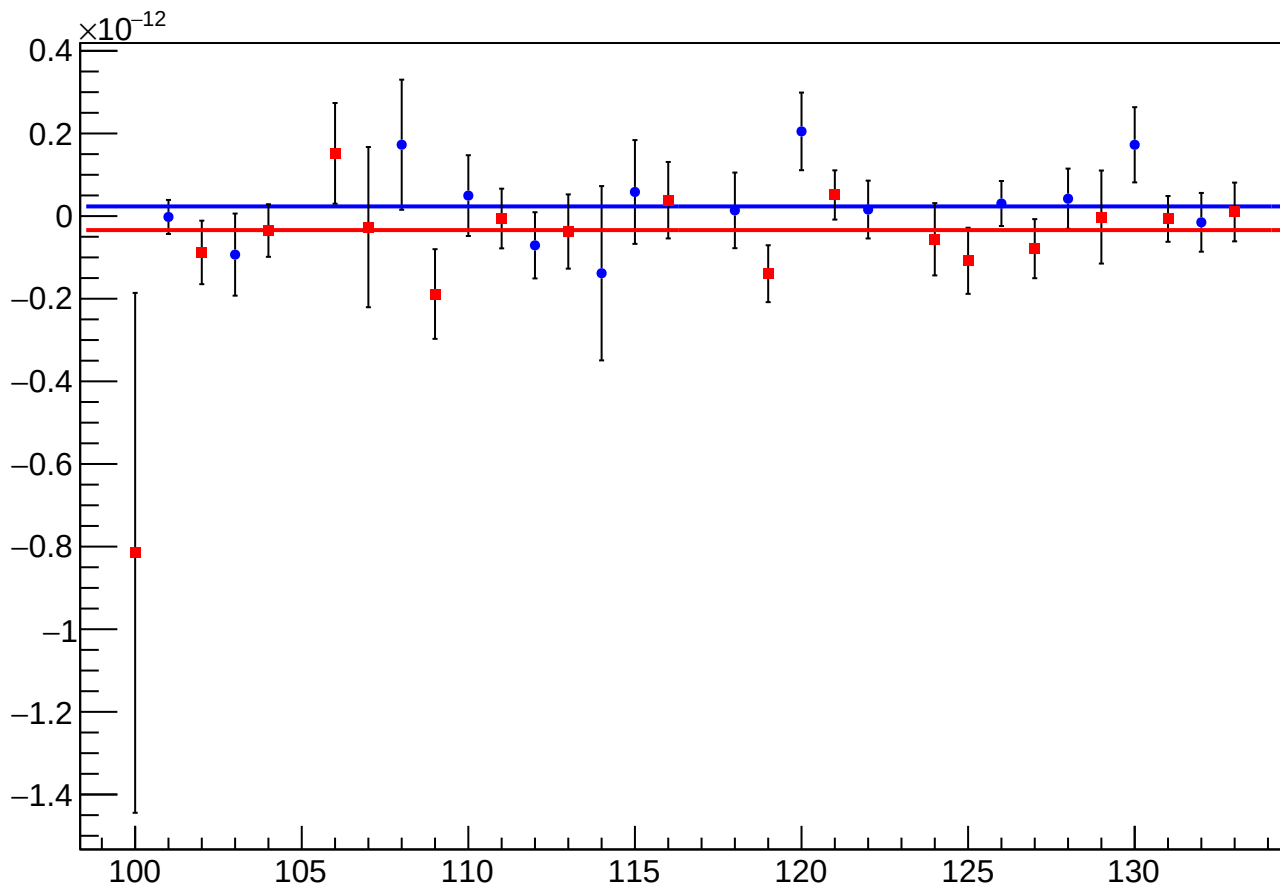
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 44.100 $\pm$ 0.010  $\chi^2$ /NDF: 2943437.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 11.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.6/16

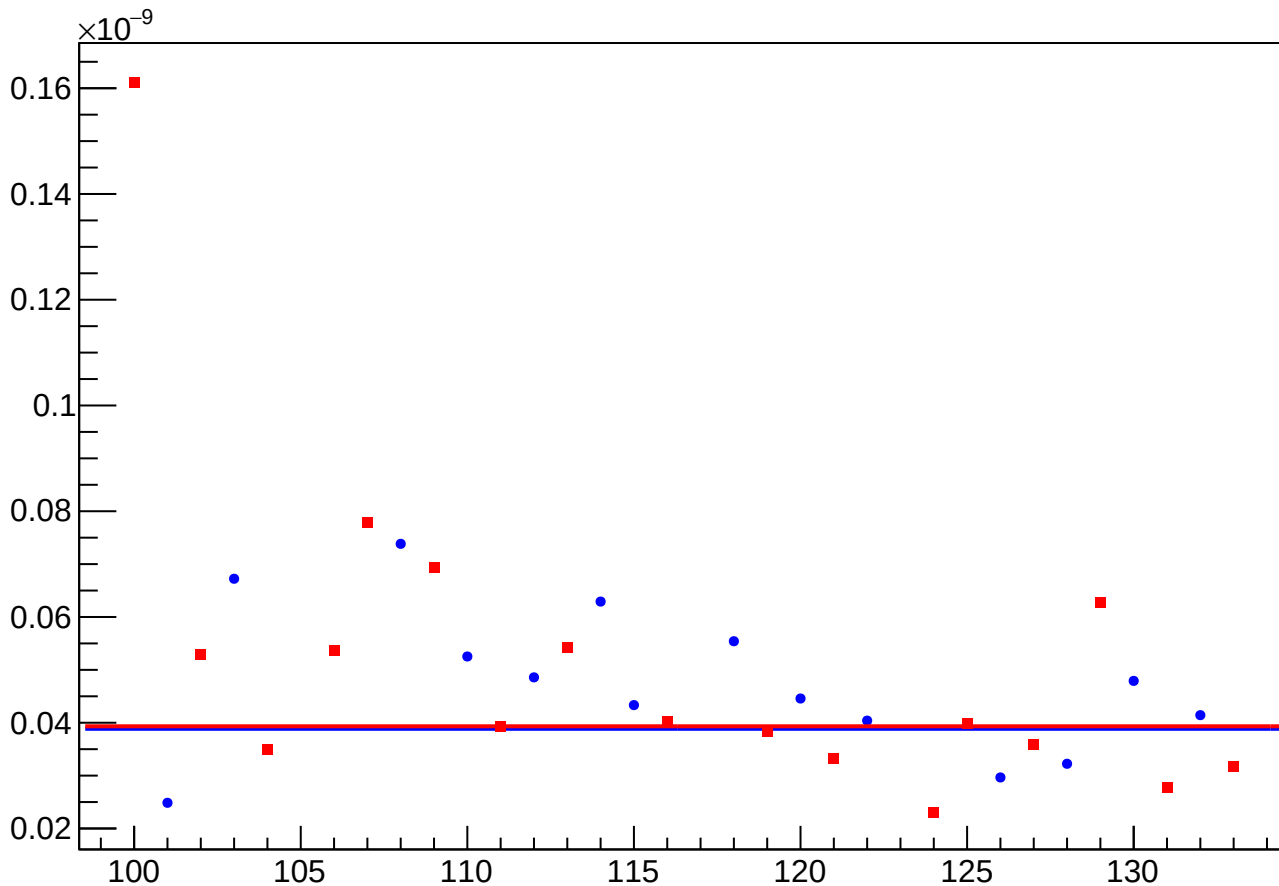
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 29.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_3726\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 759892.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 753937.4/16

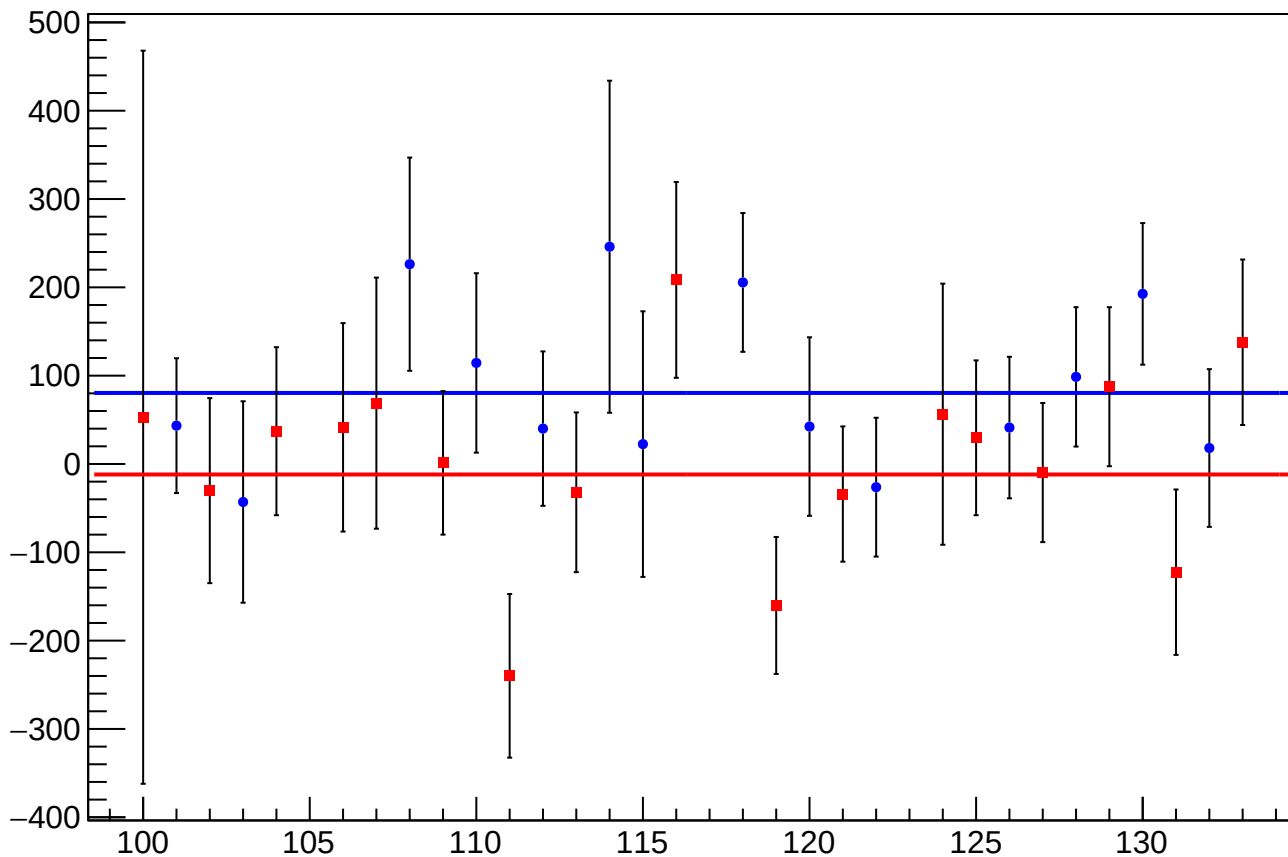
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1514386.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 80.435 $\pm$ 24.719  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -11.896 $\pm$ 23.404  $\chi^2$ /NDF: 20.3/16

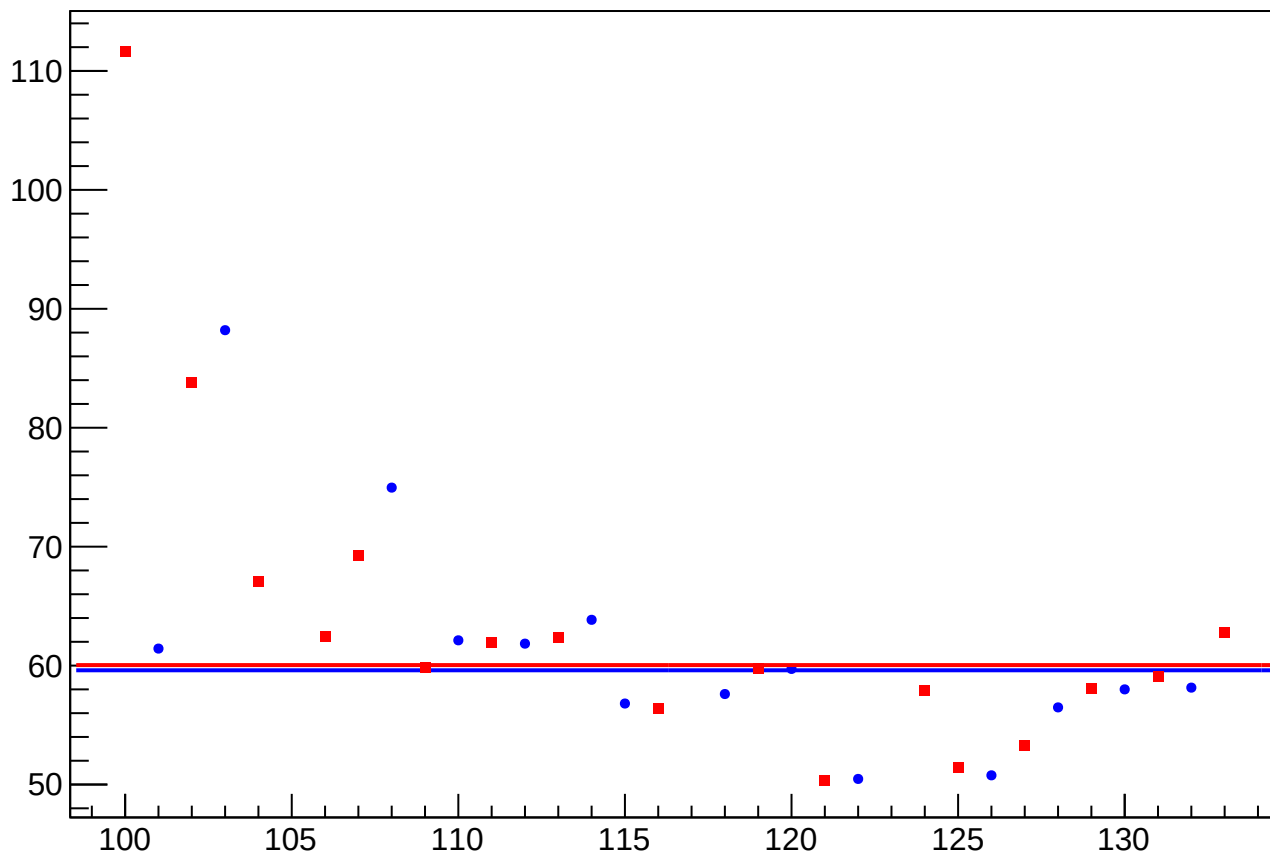
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.747 $\pm$ 16.995  $\chi^2$ /NDF: 39.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 59.606 $\pm$ 0.017  $\chi^2$ /NDF: 220628.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 60.042 $\pm$ 0.017  $\chi^2$ /NDF: 227593.5/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

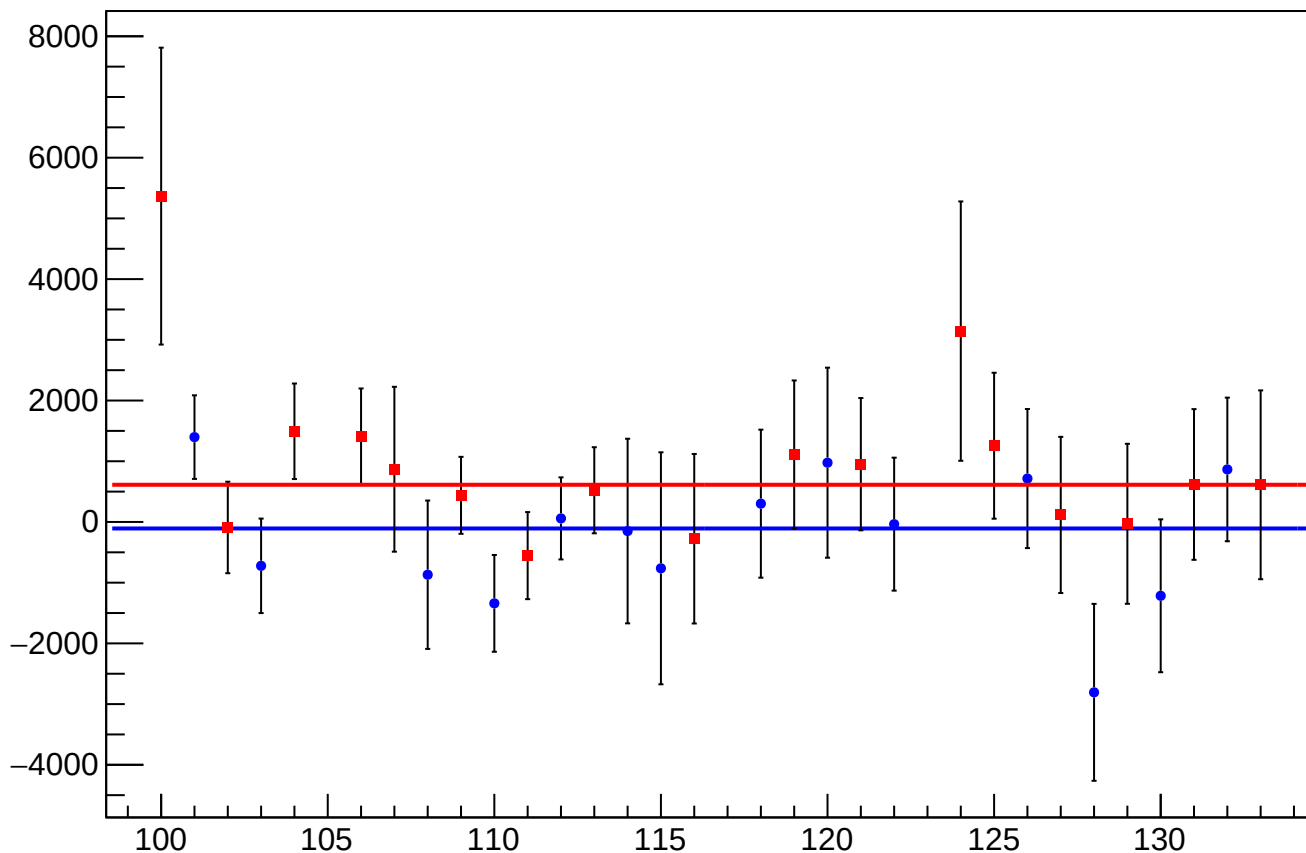
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 59.836 $\pm$ 0.012  $\chi^2$ /NDF: 448550.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_48\_dd\_reg\_correction\_mean vs Slug



Right In: -107.314+/-273.239  $\chi^2/\text{NDF}$ : 14.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 612.632+/-240.505  $\chi^2/\text{NDF}$ : 12.4/16

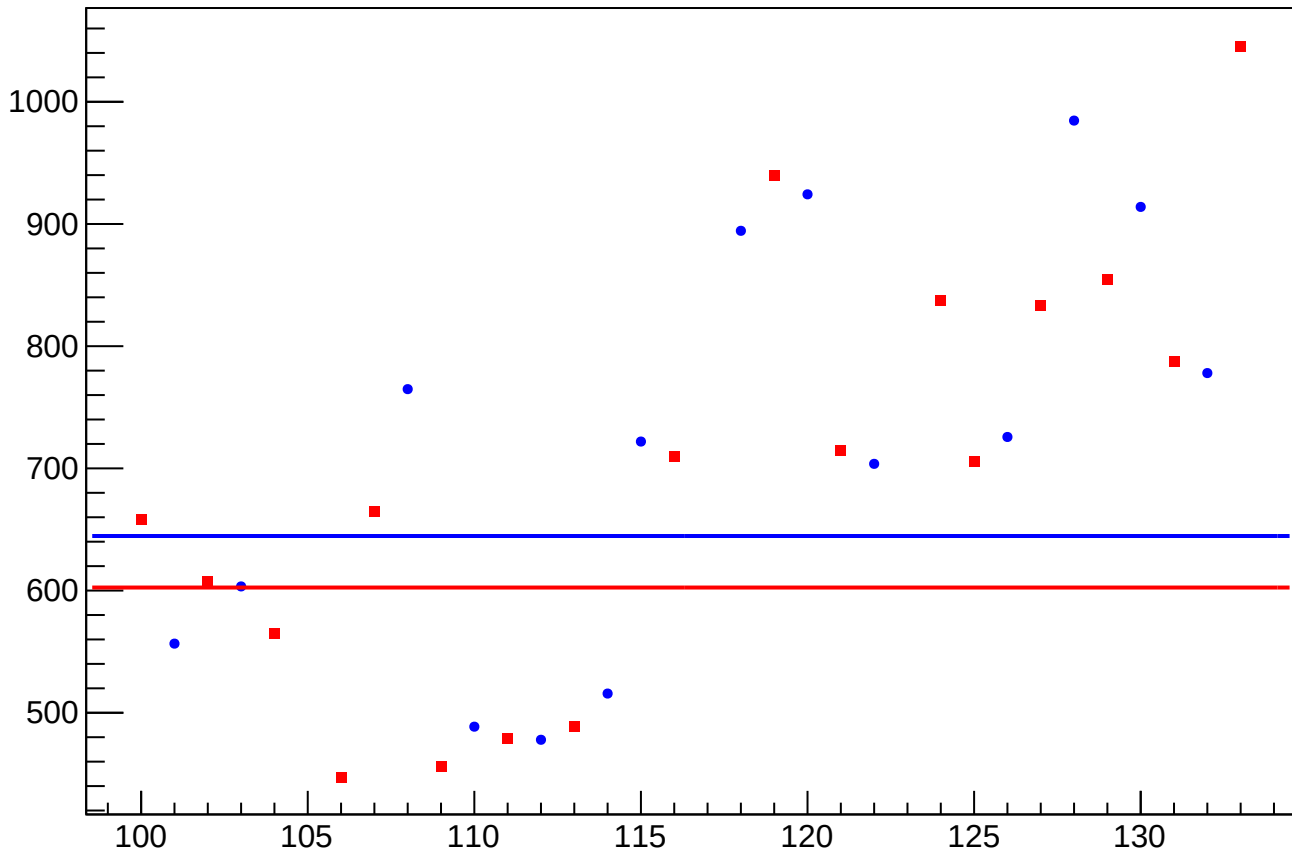
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 298.346+/-180.533  $\chi^2/\text{NDF}$ : 30.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_reg\_correction\_rms vs Slug



Right In: 644.655 $\pm$ 0.193  $\chi^2$ /NDF: 663167.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 602.488 $\pm$ 0.170  $\chi^2$ /NDF: 873381.6/16

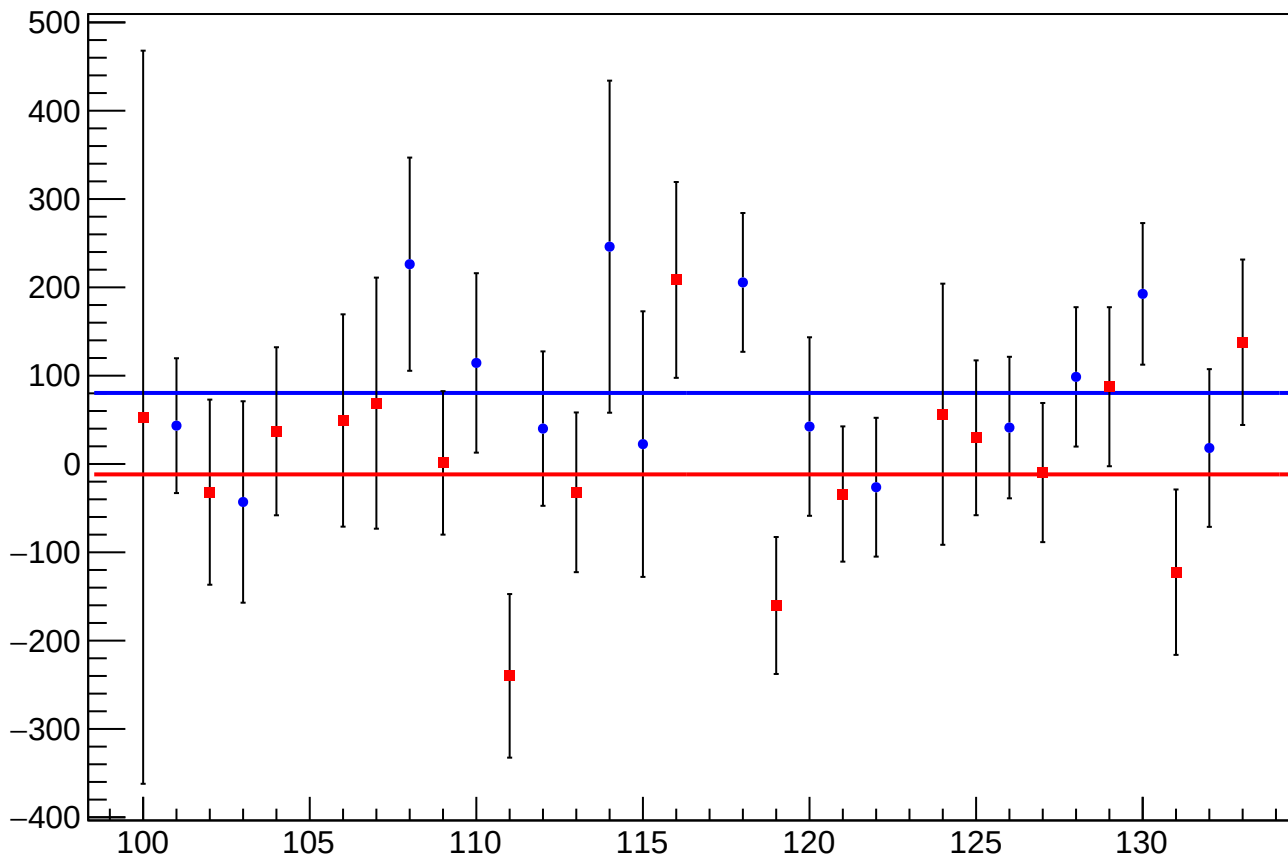
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 620.896 $\pm$ 0.128  $\chi^2$ /NDF: 1563387.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 80.444+/-24.719  $\chi^2/\text{NDF}$ : 11.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11.770+/-23.421  $\chi^2/\text{NDF}$ : 20.3/16

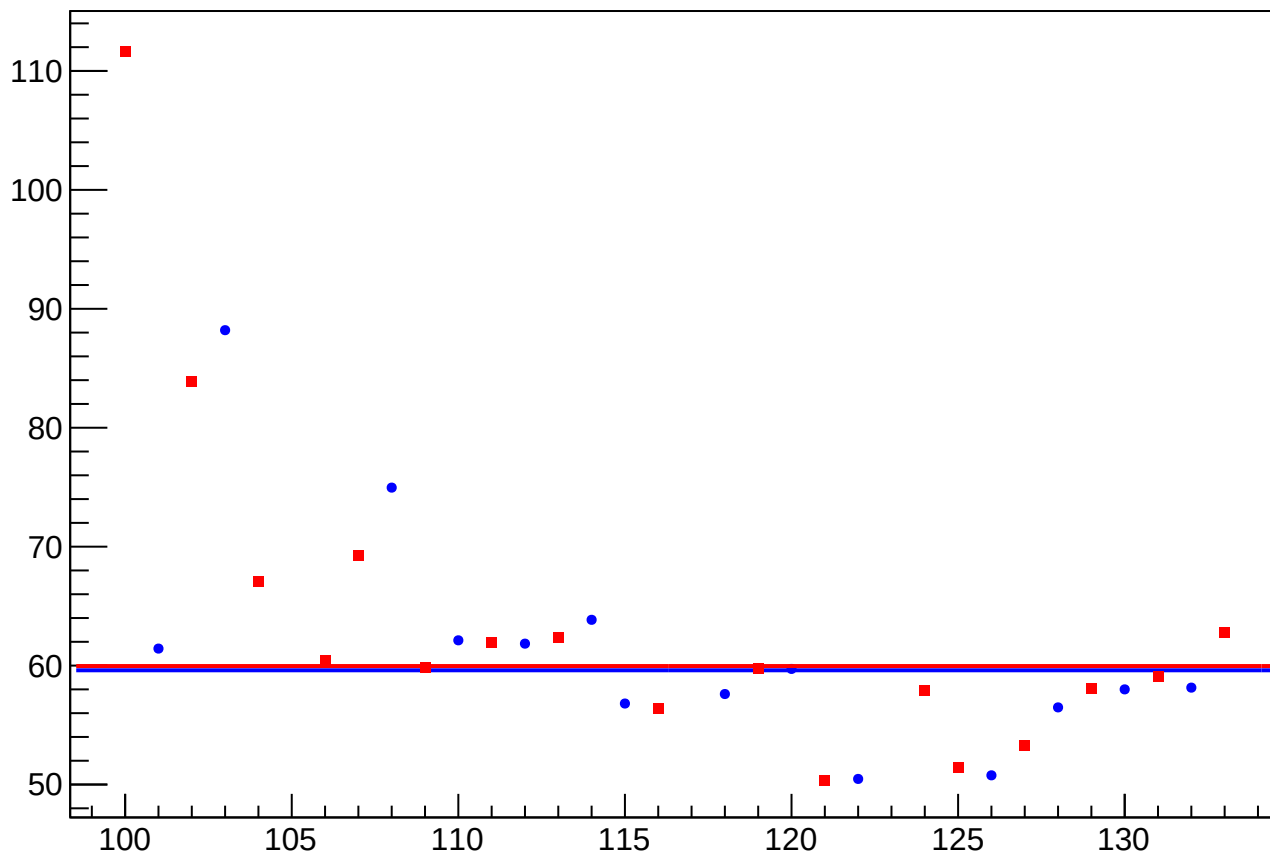
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.852+/-17.002  $\chi^2/\text{NDF}$ : 39.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 59.606+/-0.017  $\chi^2/\text{NDF}$ : 220631.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 59.962+/-0.017  $\chi^2/\text{NDF}$ : 226975.6/16

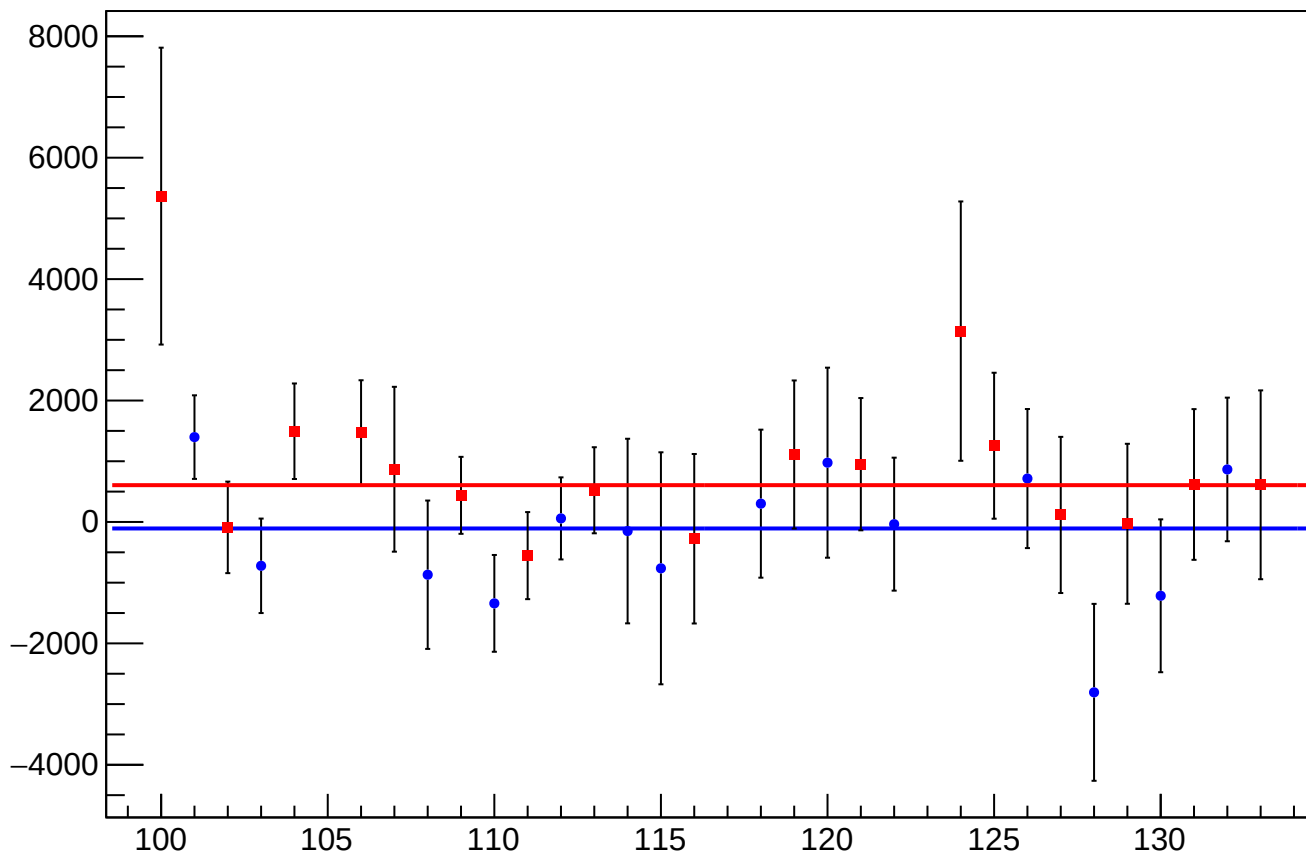
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 59.793+/-0.012  $\chi^2/\text{NDF}$ : 447826.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_cor\_correction\_mean vs Slug



Right In:  $-107.269 \pm 273.242$   $\chi^2/\text{NDF}$ : 14.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $606.185 \pm 242.299$   $\chi^2/\text{NDF}$ : 12.4/16

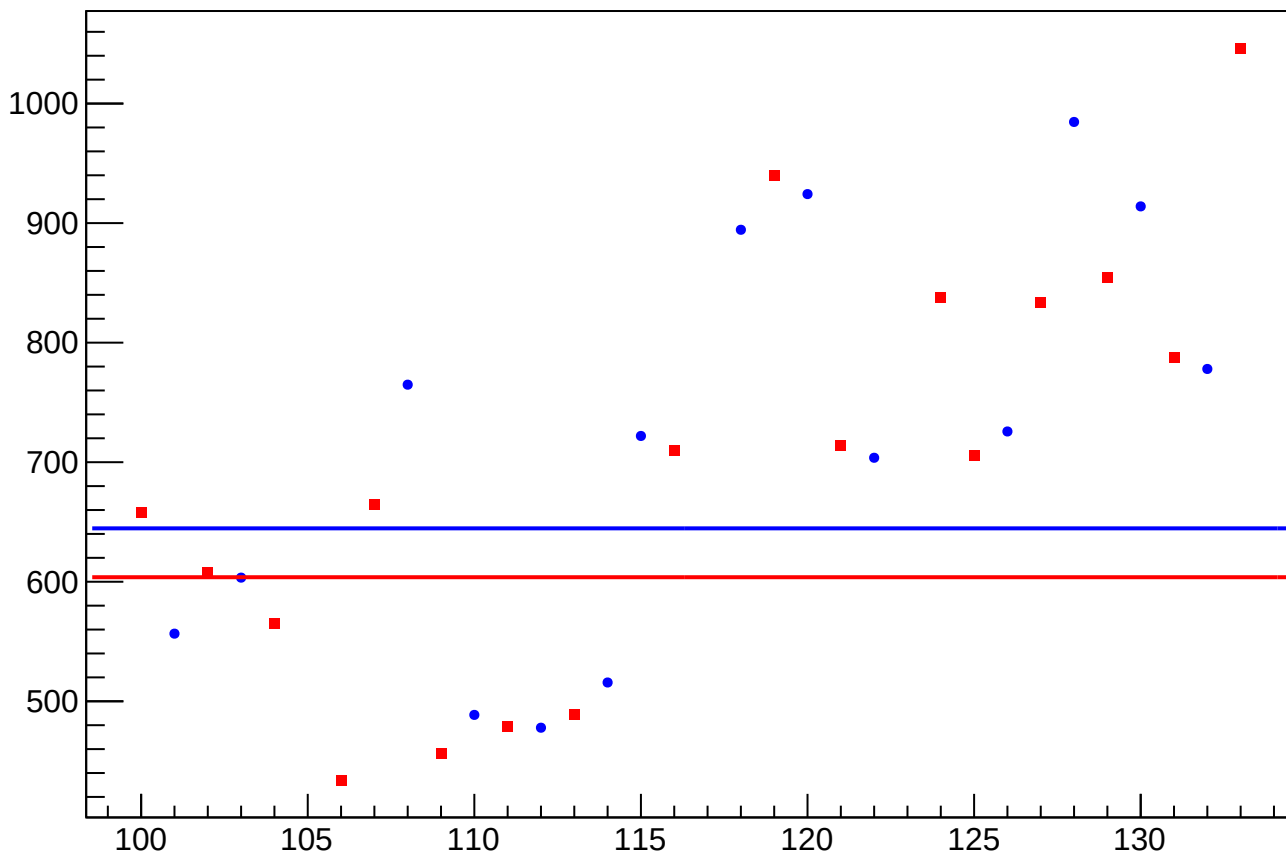
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $292.126 \pm 181.288$   $\chi^2/\text{NDF}$ : 30.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_cor\_correction\_rms vs Slug



Right In: 644.662 $\pm$ 0.193  $\chi^2$ /NDF: 663154.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 603.782 $\pm$ 0.171  $\chi^2$ /NDF: 872636.0/16

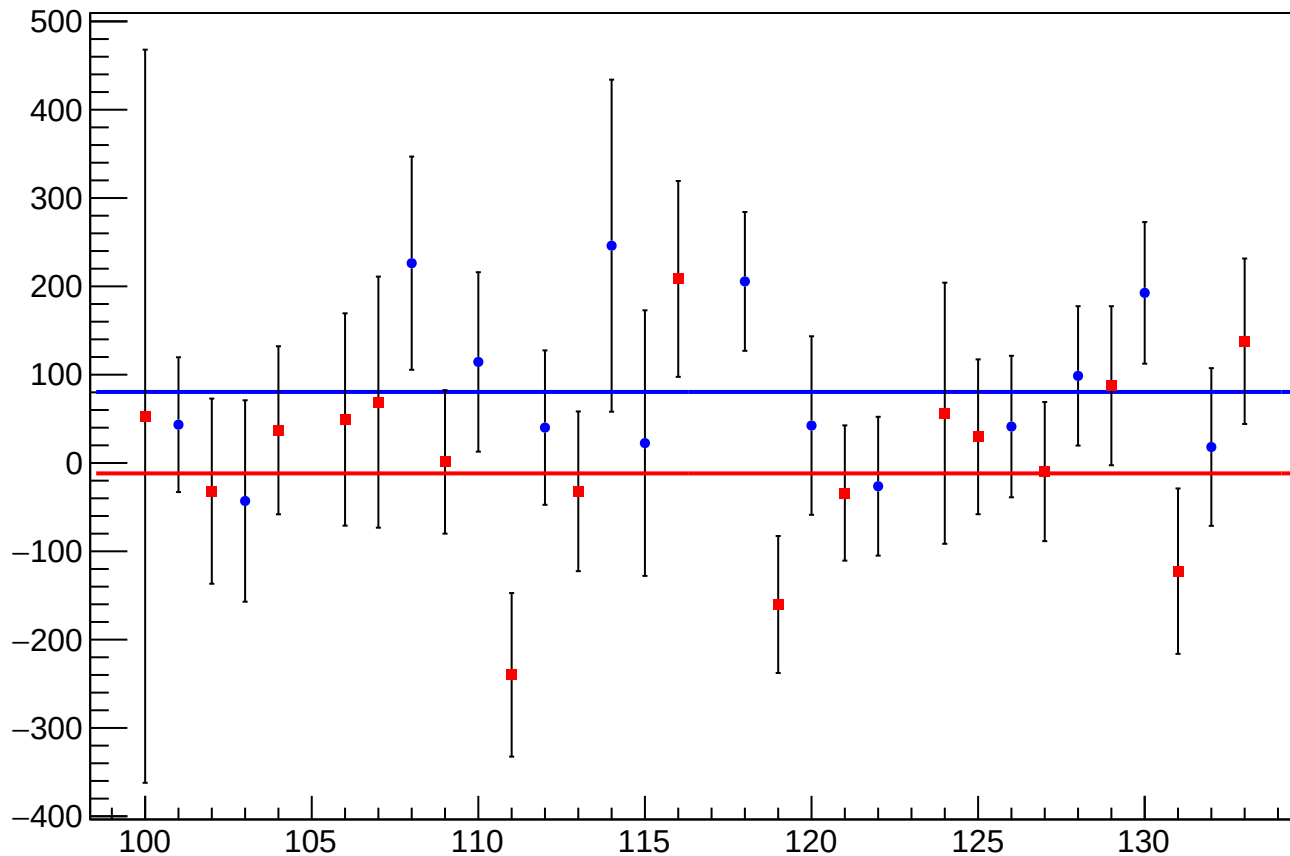
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 621.777 $\pm$ 0.128  $\chi^2$ /NDF: 1560850.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 80.444 $\pm$ 24.719  $\chi^2$ /NDF: 11.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -11.770 $\pm$ 23.421  $\chi^2$ /NDF: 20.3/16

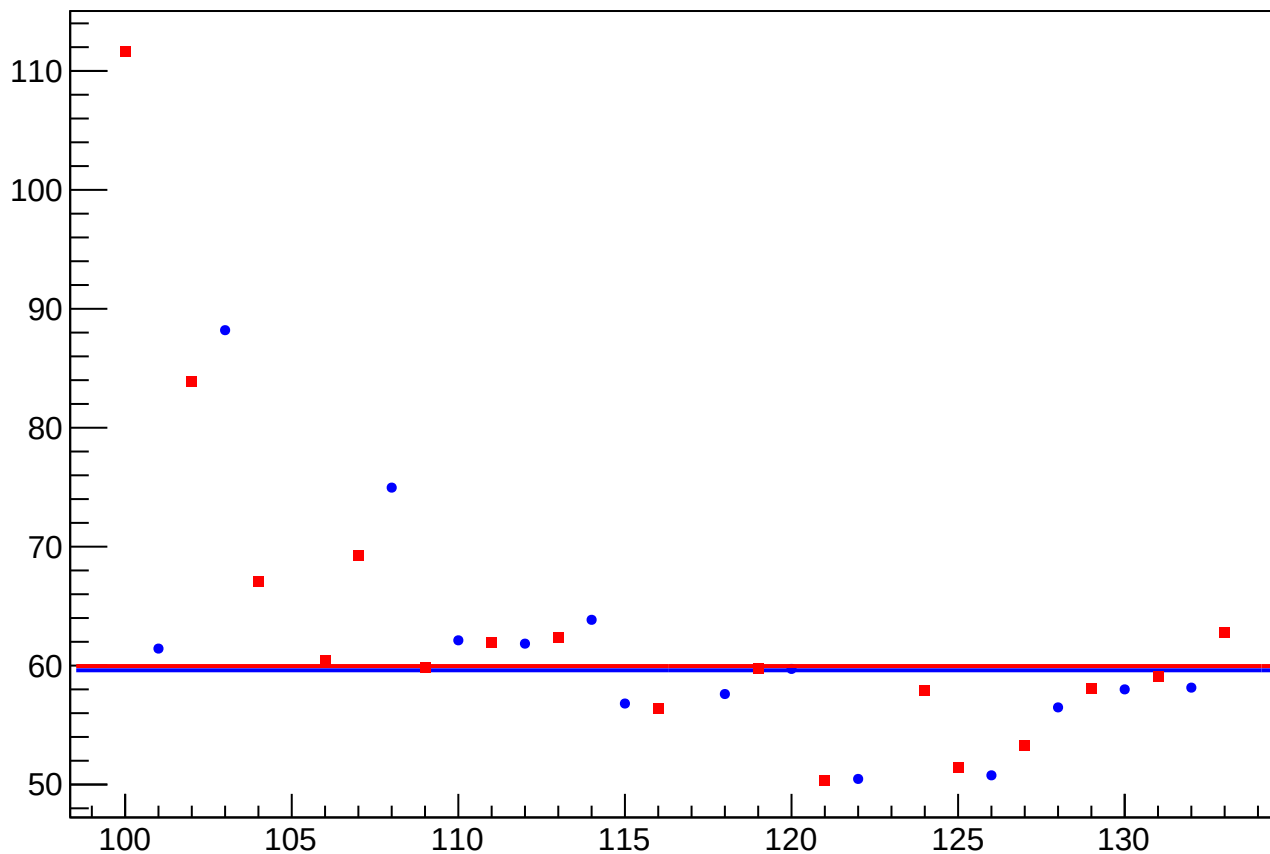
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.852 $\pm$ 17.002  $\chi^2$ /NDF: 39.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 59.606 $\pm$ 0.017  $\chi^2$ /NDF: 220631.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 59.962 $\pm$ 0.017  $\chi^2$ /NDF: 226975.6/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

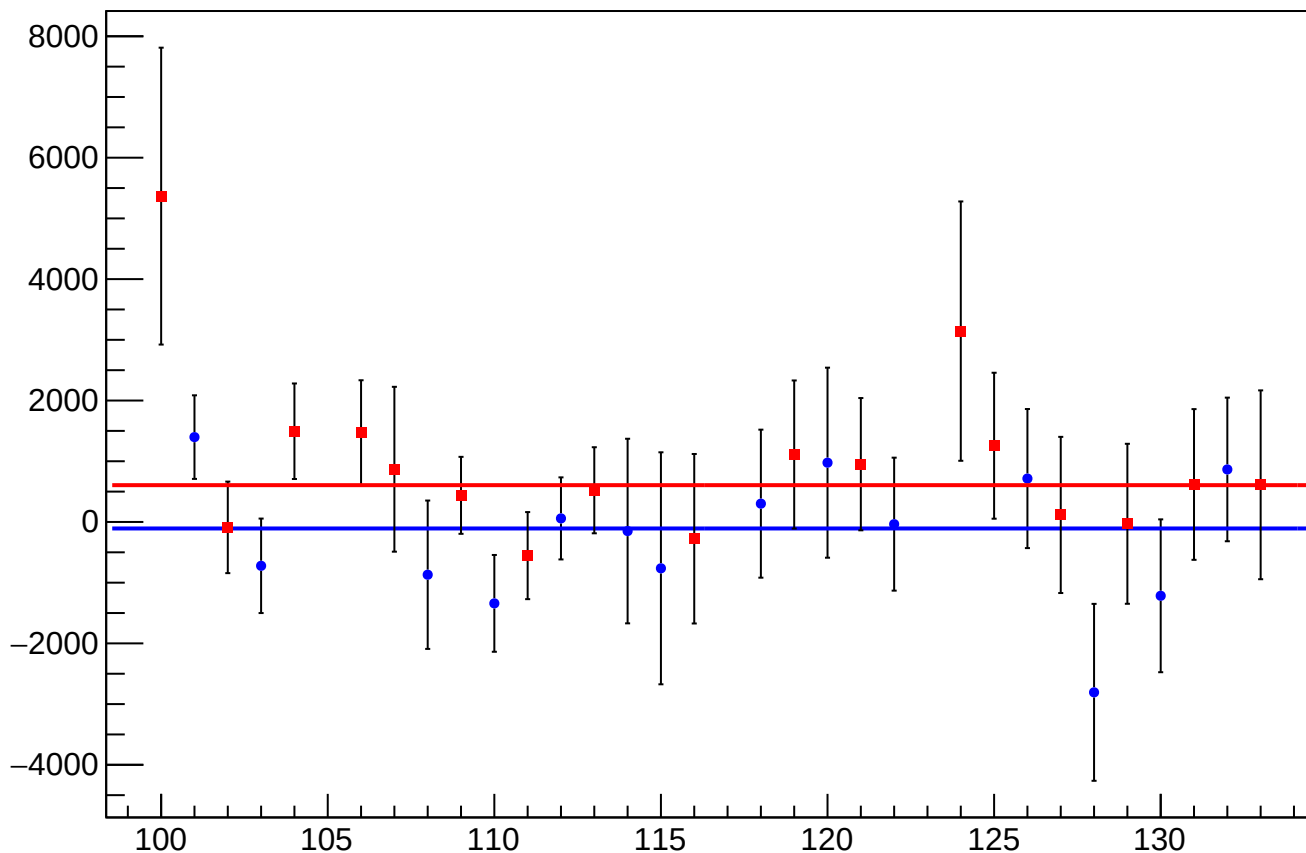
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 59.793 $\pm$ 0.012  $\chi^2$ /NDF: 447826.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_48\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In:  $-107.269 \pm 273.242$   $\chi^2/\text{NDF}$ : 14.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $606.185 \pm 242.299$   $\chi^2/\text{NDF}$ : 12.4/16

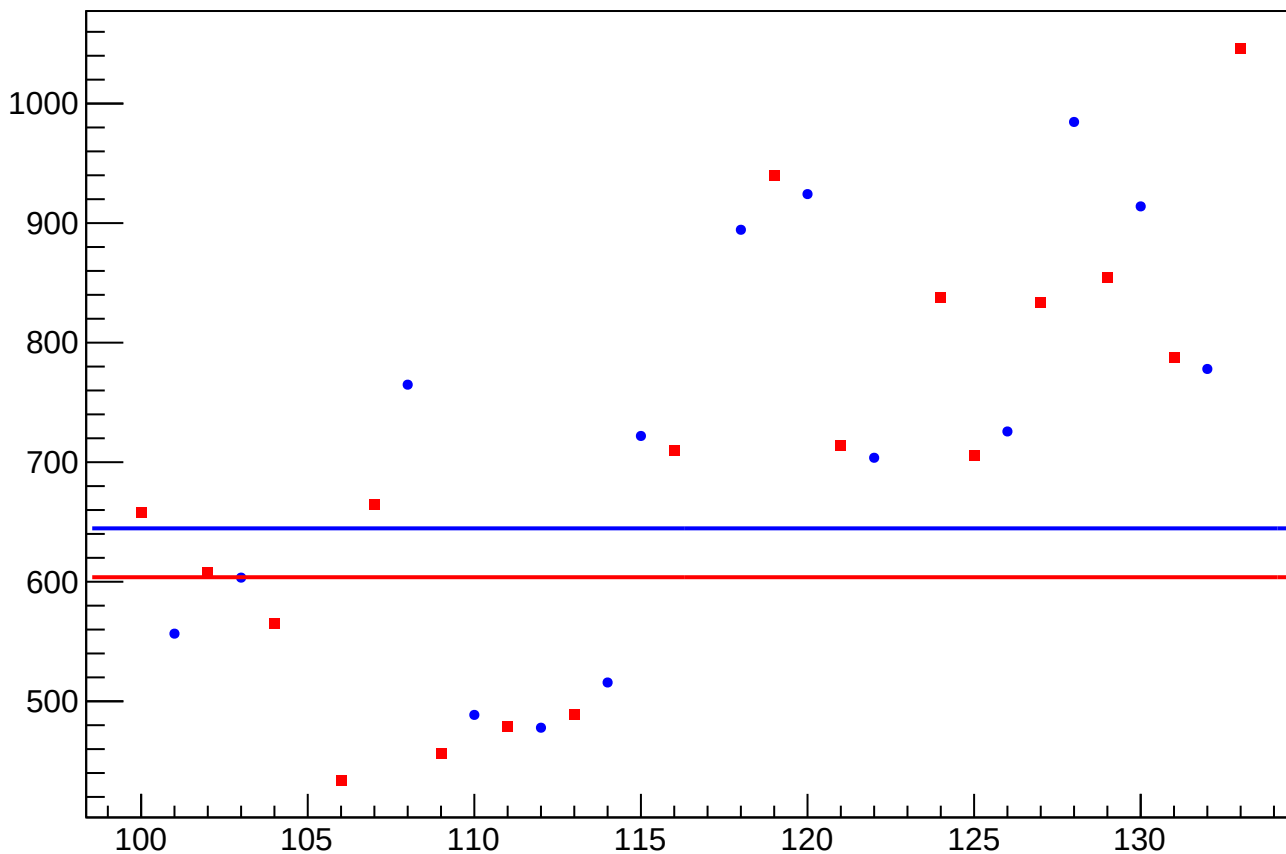
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $292.126 \pm 181.288$   $\chi^2/\text{NDF}$ : 30.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 644.662 $\pm$ 0.193  $\chi^2$ /NDF: 663154.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 603.782 $\pm$ 0.171  $\chi^2$ /NDF: 872636.0/16

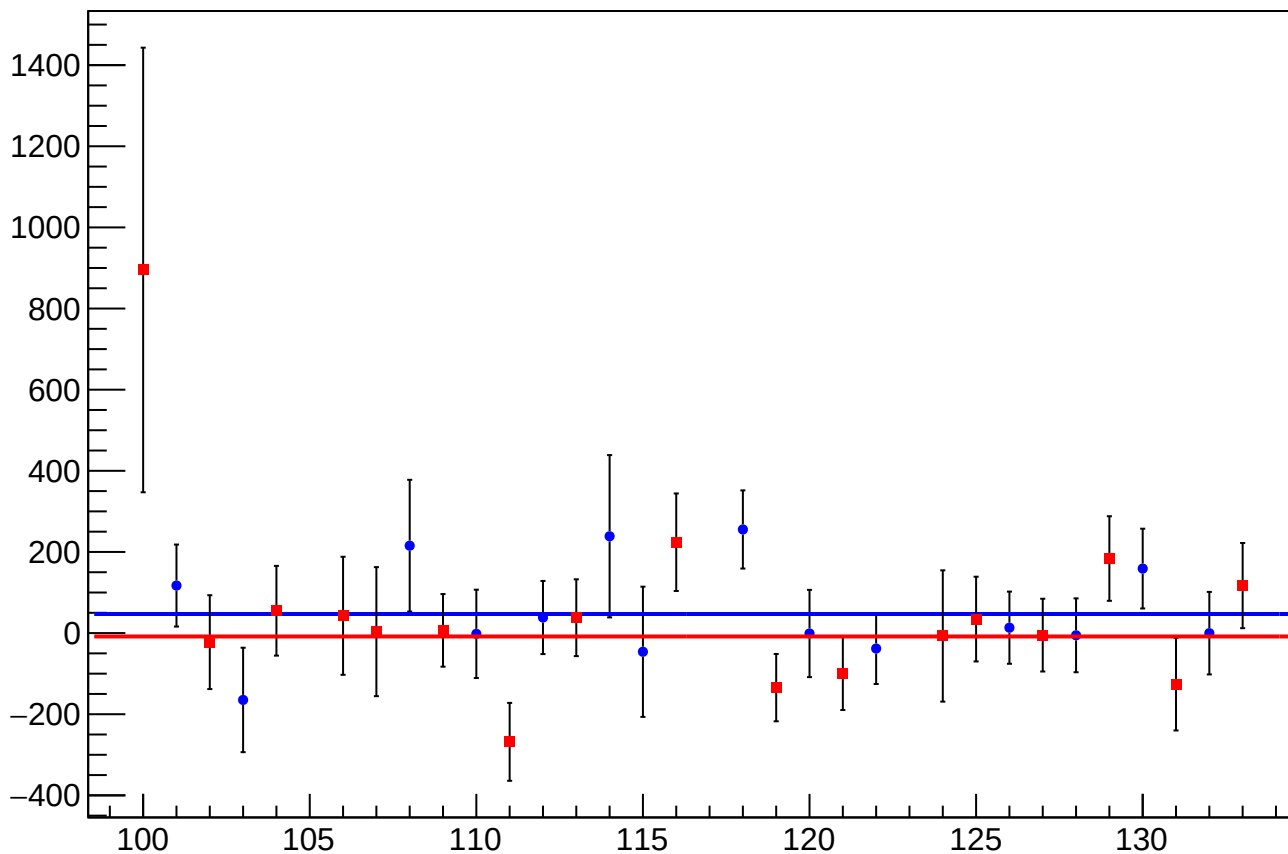
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 621.777 $\pm$ 0.128  $\chi^2$ /NDF: 1560850.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 47.055 $\pm$ 28.405  $\chi^2$ /NDF: 13.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.340 $\pm$ 26.342  $\chi^2$ /NDF: 23.9/16

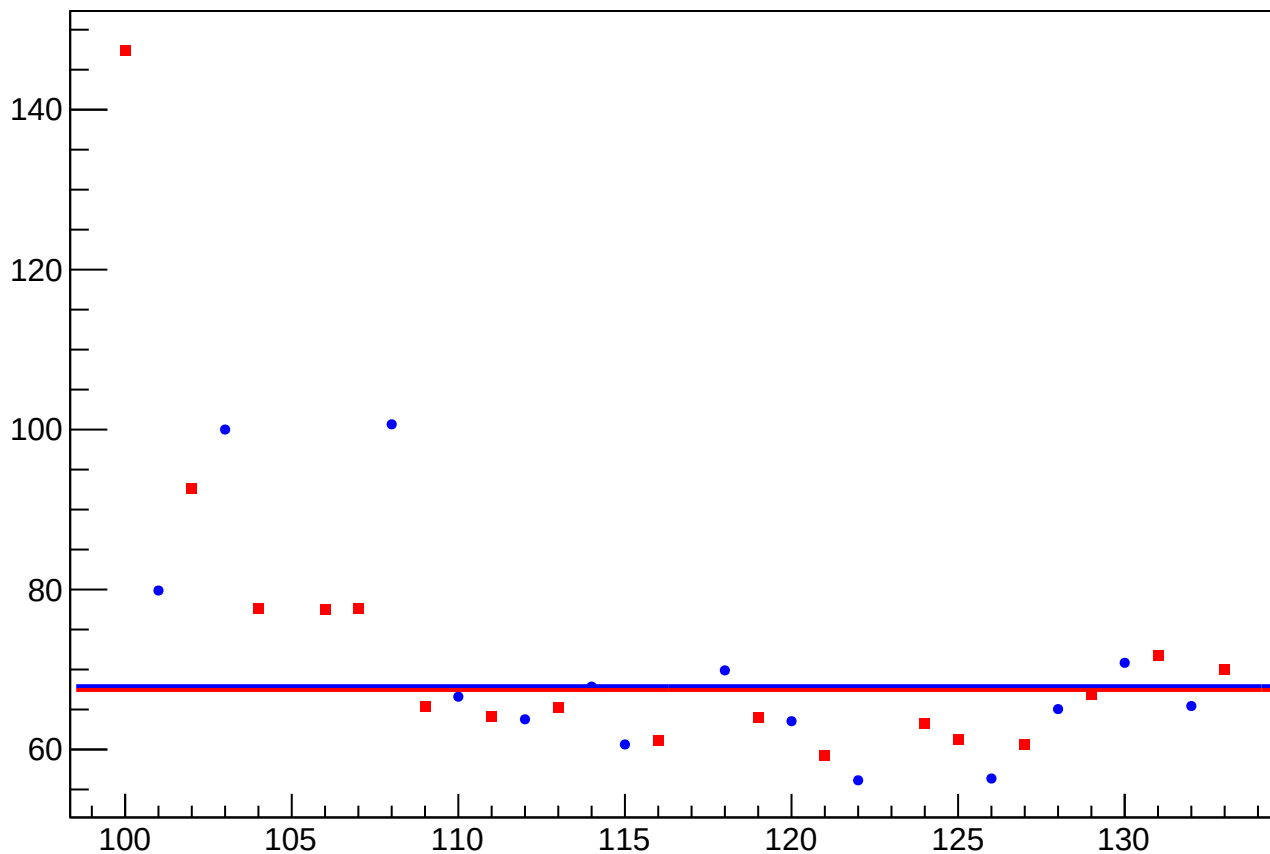
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.273 $\pm$ 19.315  $\chi^2$ /NDF: 39.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 67.914 $\pm$ 0.020  $\chi^2$ /NDF: 321261.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.444 $\pm$ 0.019  $\chi^2$ /NDF: 226468.6/16

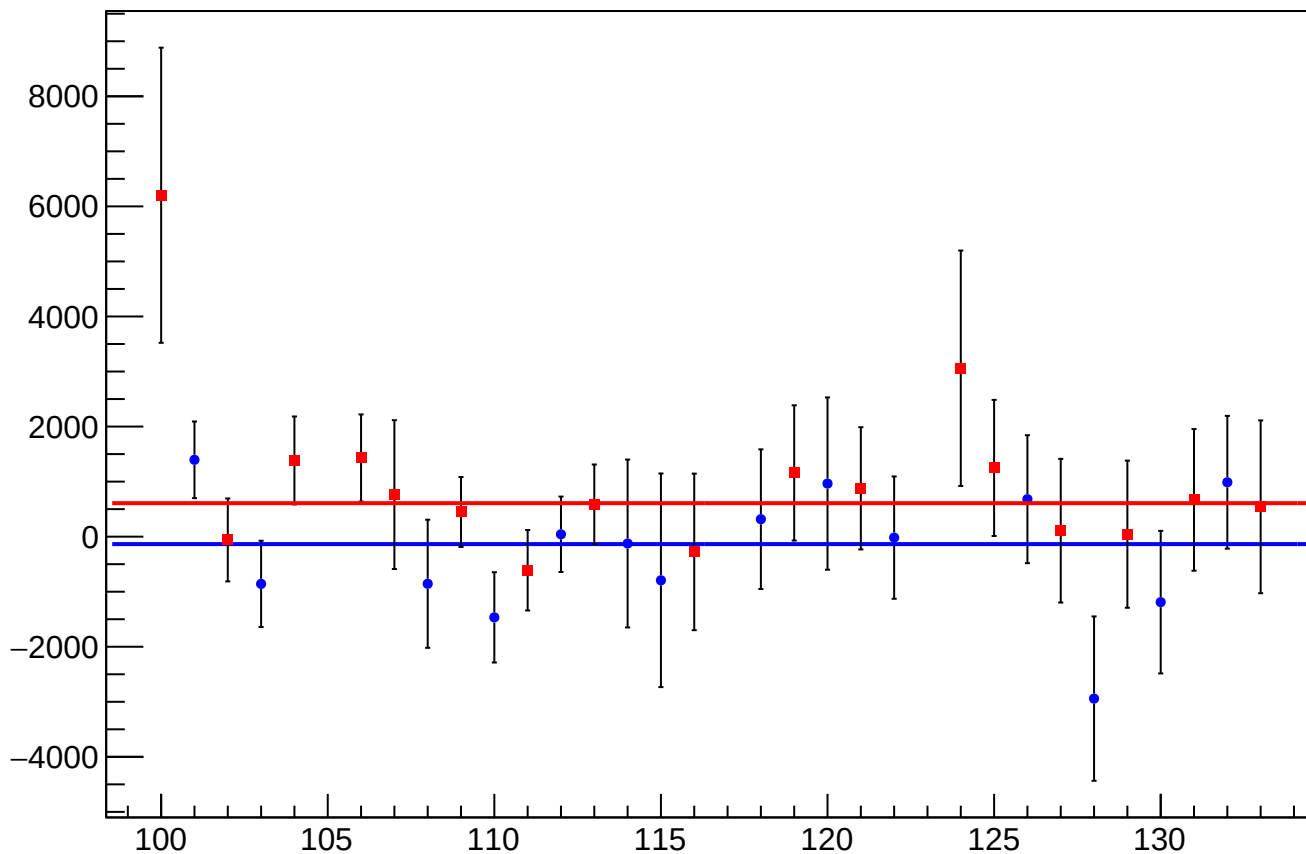
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 67.661 $\pm$ 0.014  $\chi^2$ /NDF: 548024.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_dit\_correction\_mean vs Slug



Right In: -135.308+/-276.728  $\chi^2/\text{NDF}$ : 15.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 608.395+/-243.441  $\chi^2/\text{NDF}$ : 12.6/16

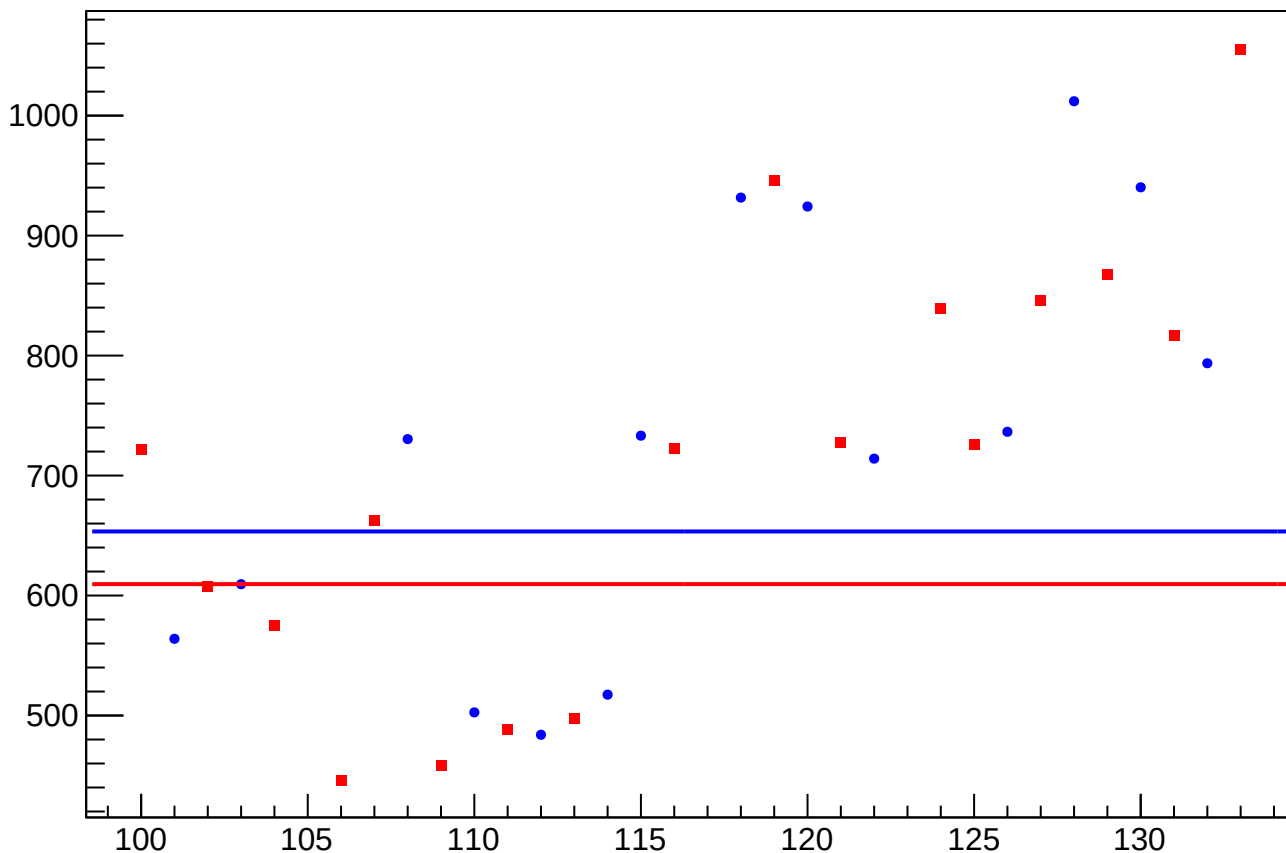
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 283.941+/-182.780  $\chi^2/\text{NDF}$ : 31.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_dit\_correction\_rms vs Slug



Right In: 653.409+/-0.196  $\chi^2/\text{NDF}$ : 670386.7/13

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

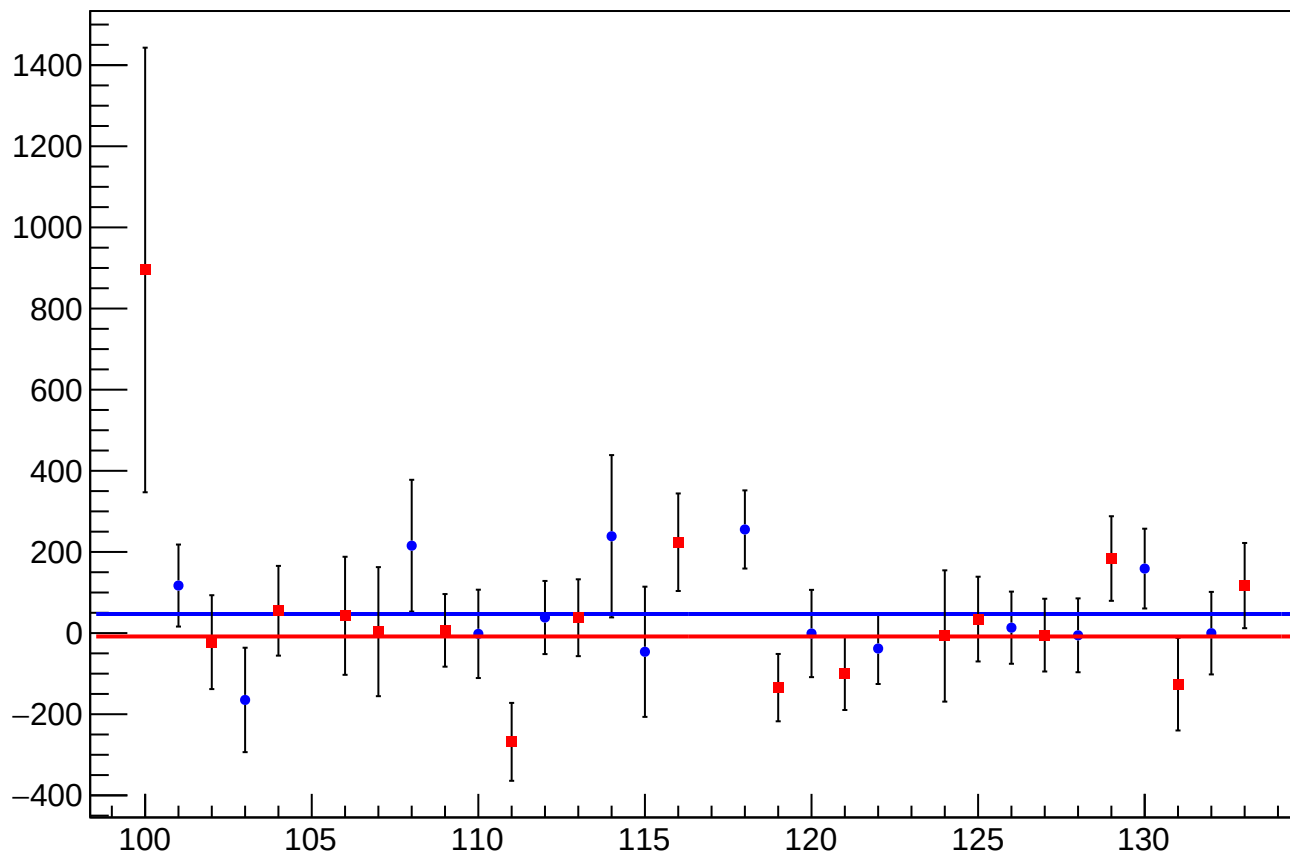
Right Out: 609.502+/-0.172  $\chi^2/\text{NDF}$ : 891573.1/16

All: 628.657+/-0.129  $\chi^2/\text{NDF}$ : 1590343.7/30

- 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\_15\_48\_dd\_mean vs Slug



Right In: 47.054+/-28.405  $\chi^2/\text{NDF}$ : 13.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -8.341+/-26.342  $\chi^2/\text{NDF}$ : 23.9/16

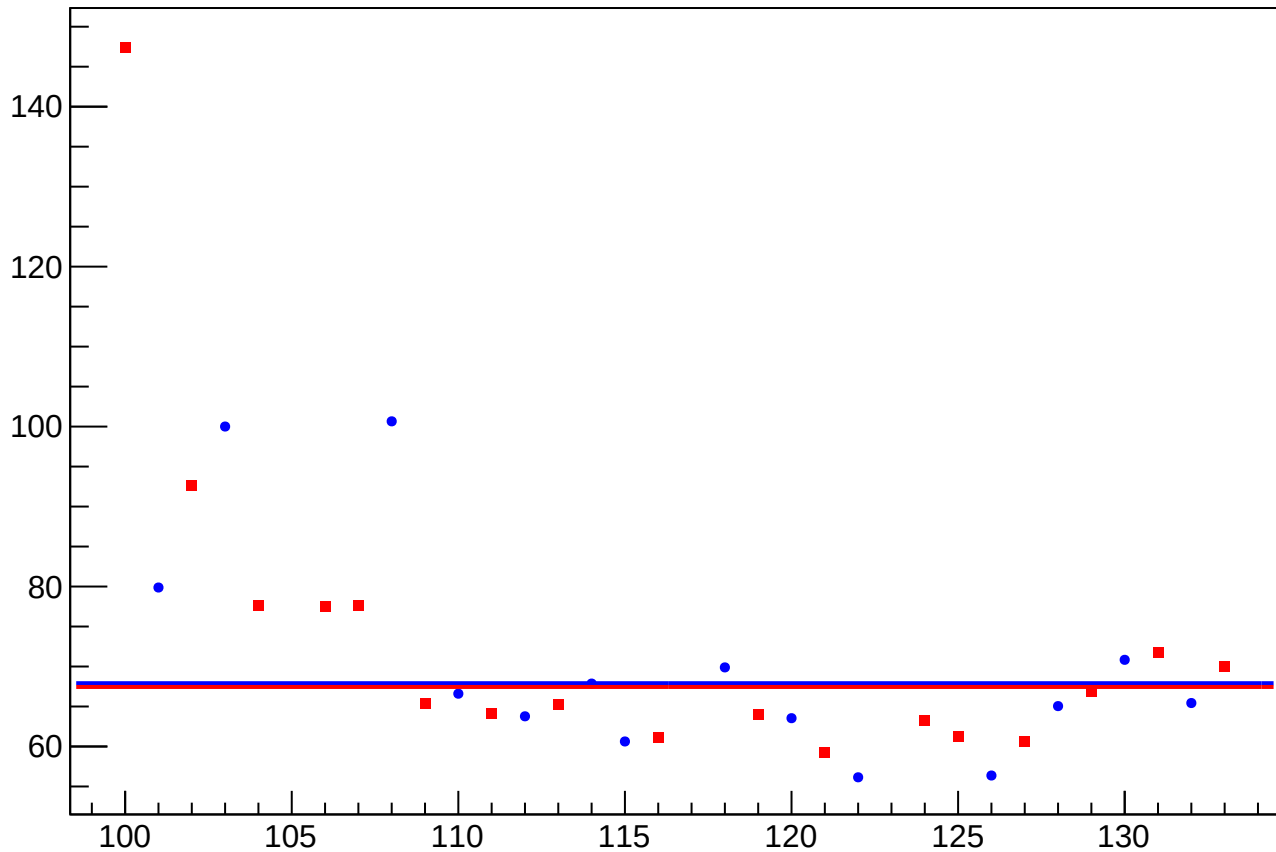
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.273+/-19.315  $\chi^2/\text{NDF}$ : 39.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 67.914 $\pm$ 0.020  $\chi^2$ /NDF: 321266.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.444 $\pm$ 0.019  $\chi^2$ /NDF: 226473.6/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

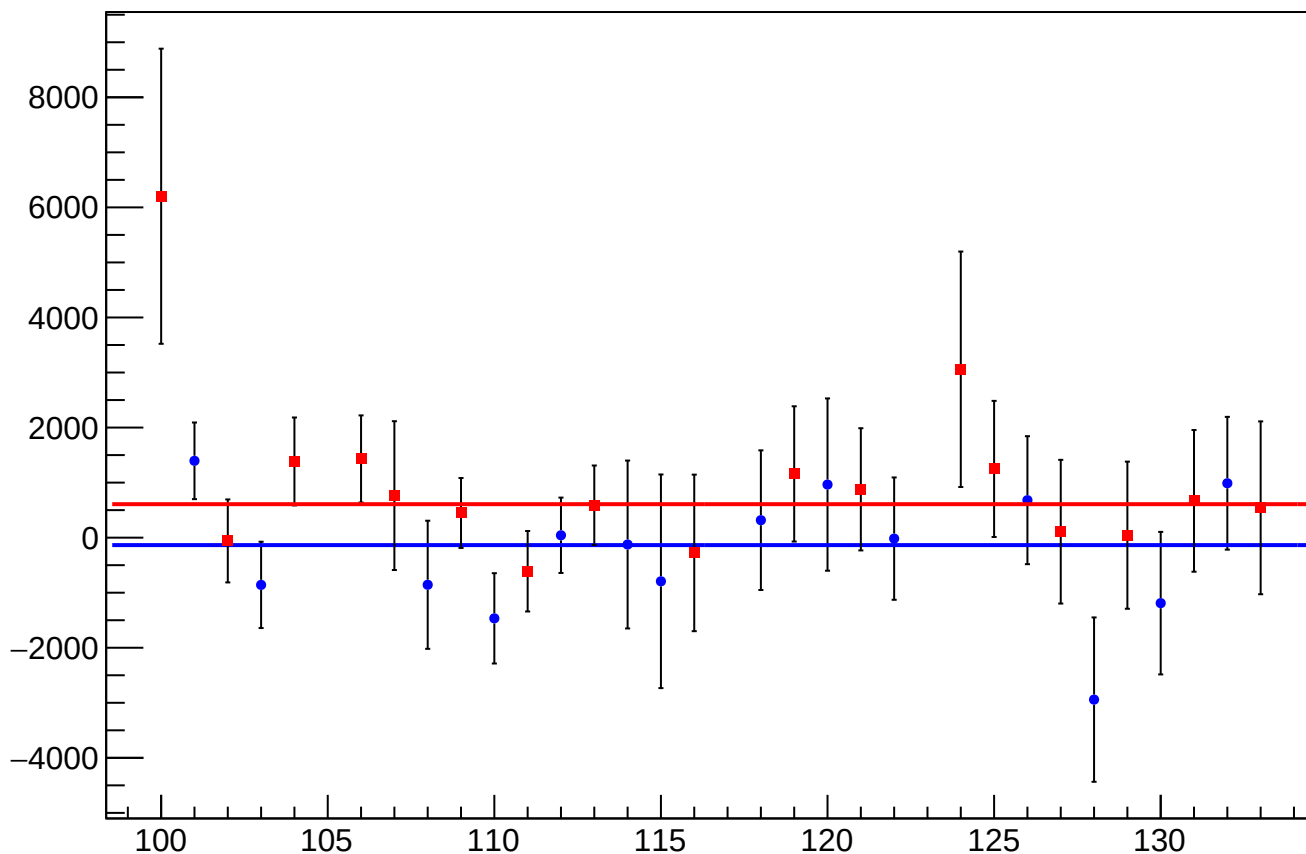
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 67.661 $\pm$ 0.014  $\chi^2$ /NDF: 548034.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_15\_48\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -135.309+/-276.728  $\chi^2$ /NDF: 15.1/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 608.394+/-243.440  $\chi^2$ /NDF: 12.6/16

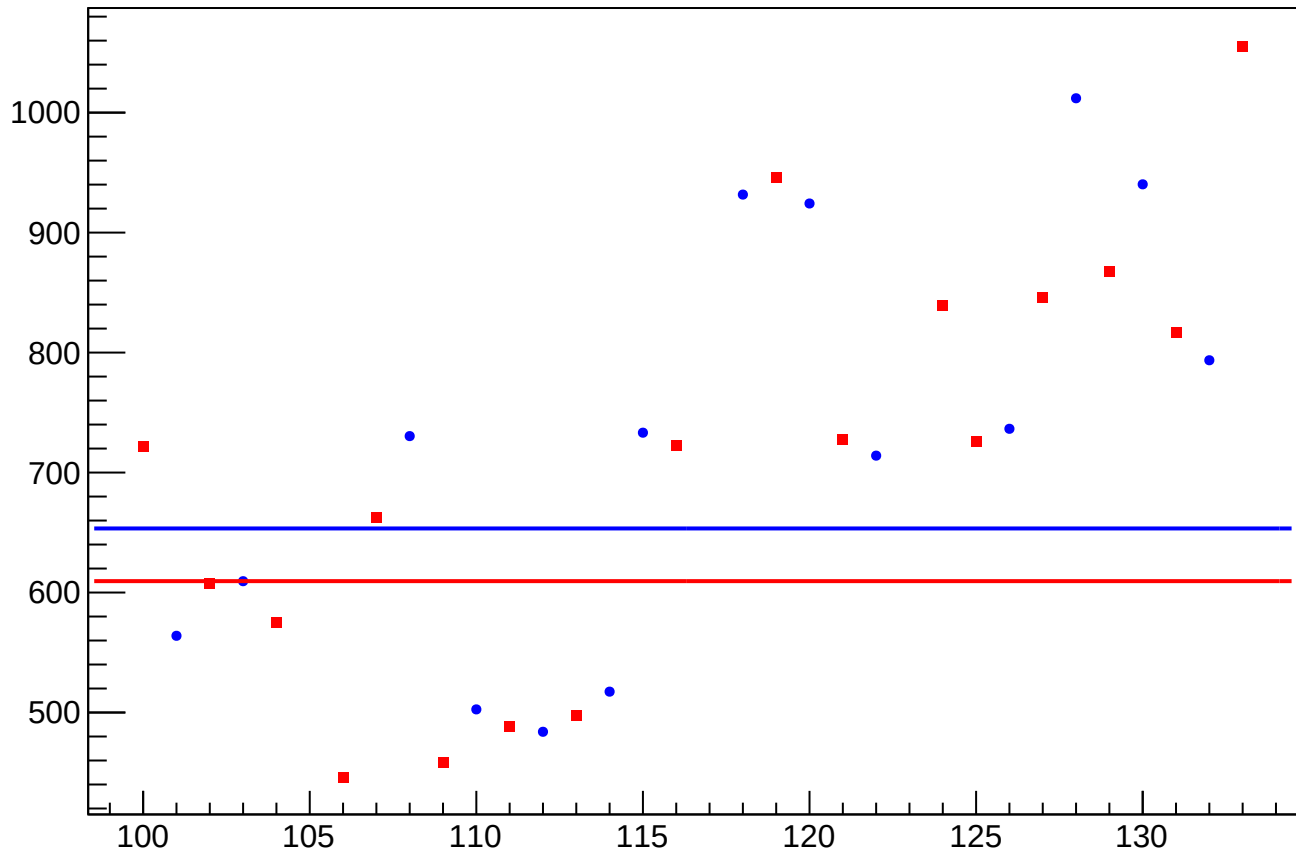
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 283.940+/-182.780  $\chi^2$ /NDF: 31.7/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 653.409+/-0.196  $\chi^2/\text{NDF}$ : 670389.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 609.501+/-0.172  $\chi^2/\text{NDF}$ : 891575.1/16

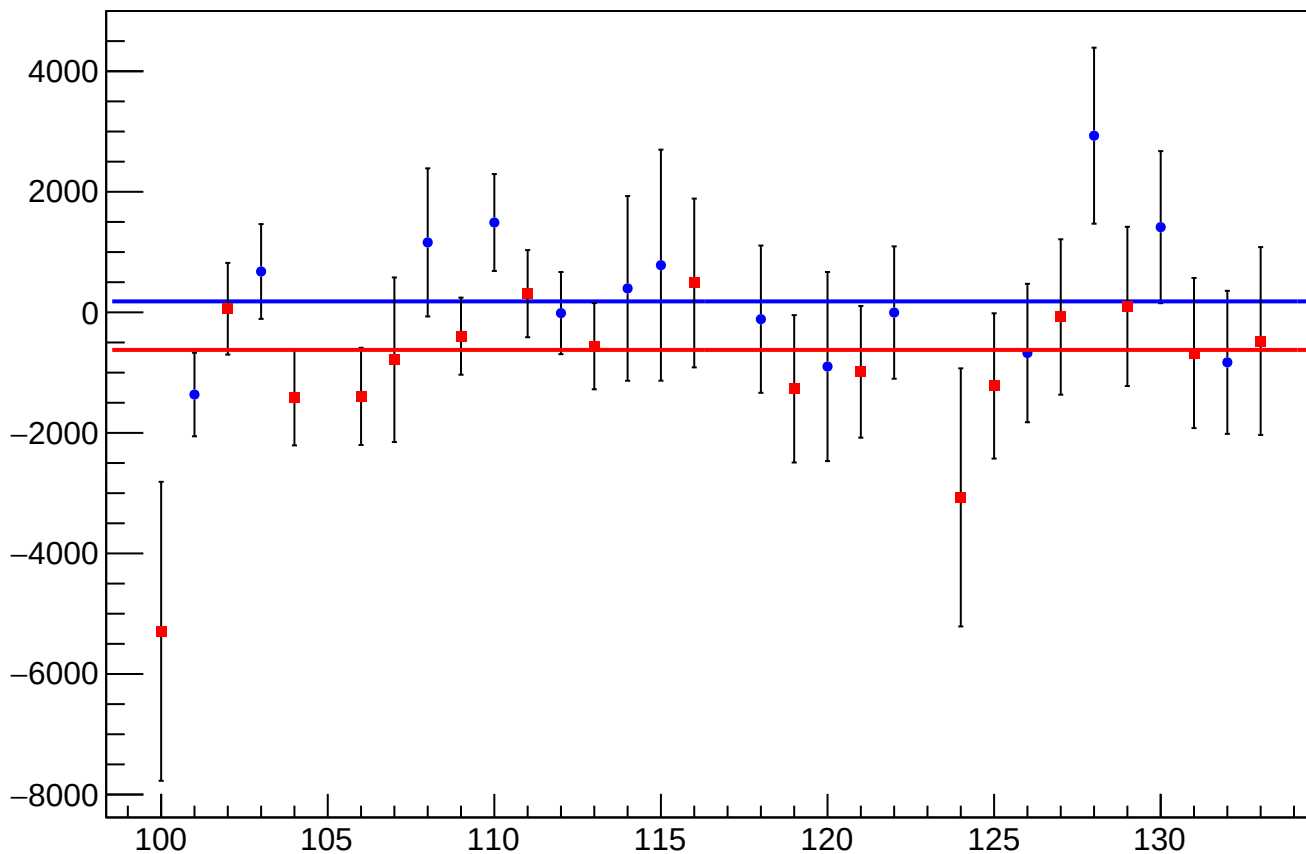
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 628.657+/-0.129  $\chi^2/\text{NDF}$ : 1590348.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 181.706 $\pm$ 274.926  $\chi^2$ /NDF: 15.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -623.021 $\pm$ 242.358  $\chi^2$ /NDF: 11.1/16

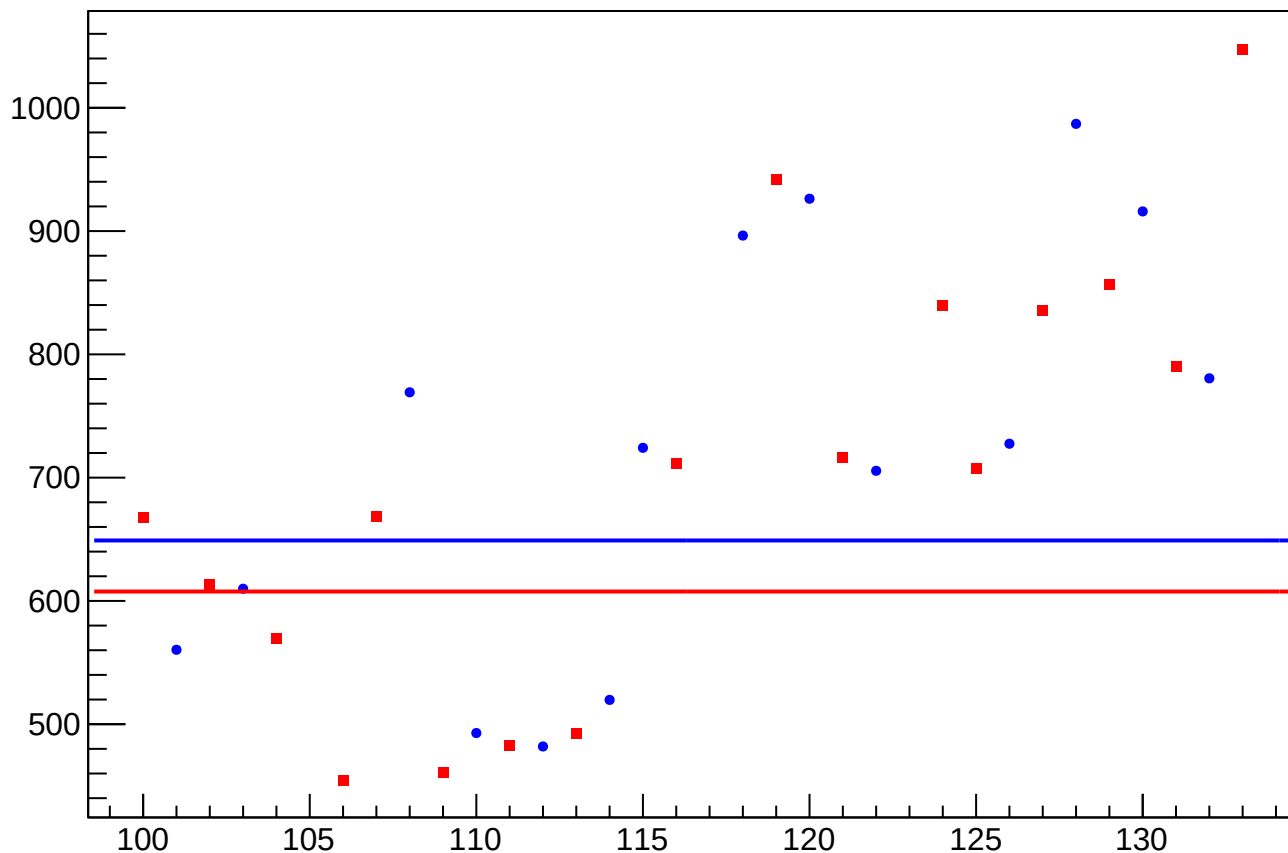
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -271.122 $\pm$ 181.803  $\chi^2$ /NDF: 31.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 649.045 $\pm$ 0.194  $\chi^2$ /NDF: 650111.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 607.618 $\pm$ 0.171  $\chi^2$ /NDF: 852326.8/16

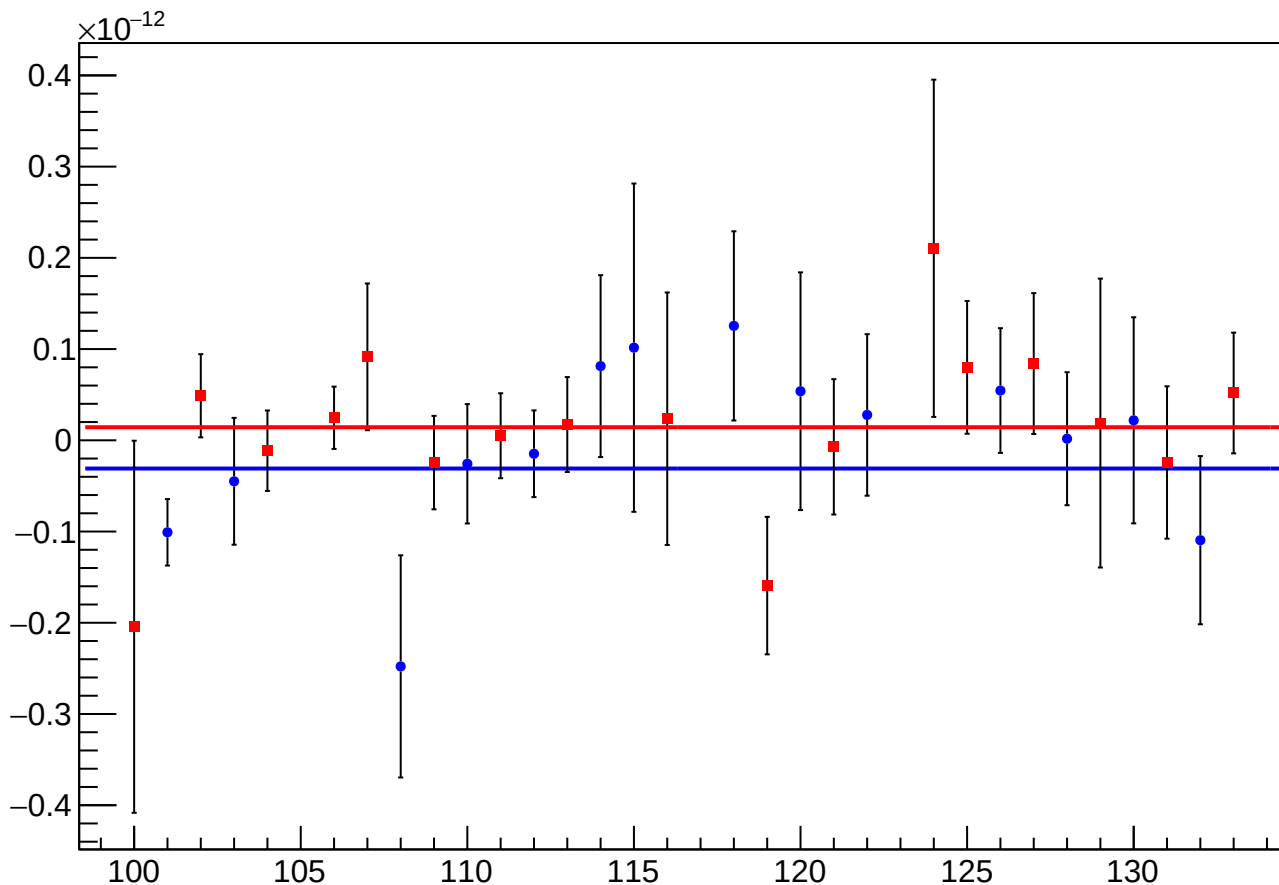
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 625.734 $\pm$ 0.129  $\chi^2$ /NDF: 1527991.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 14.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.4/16

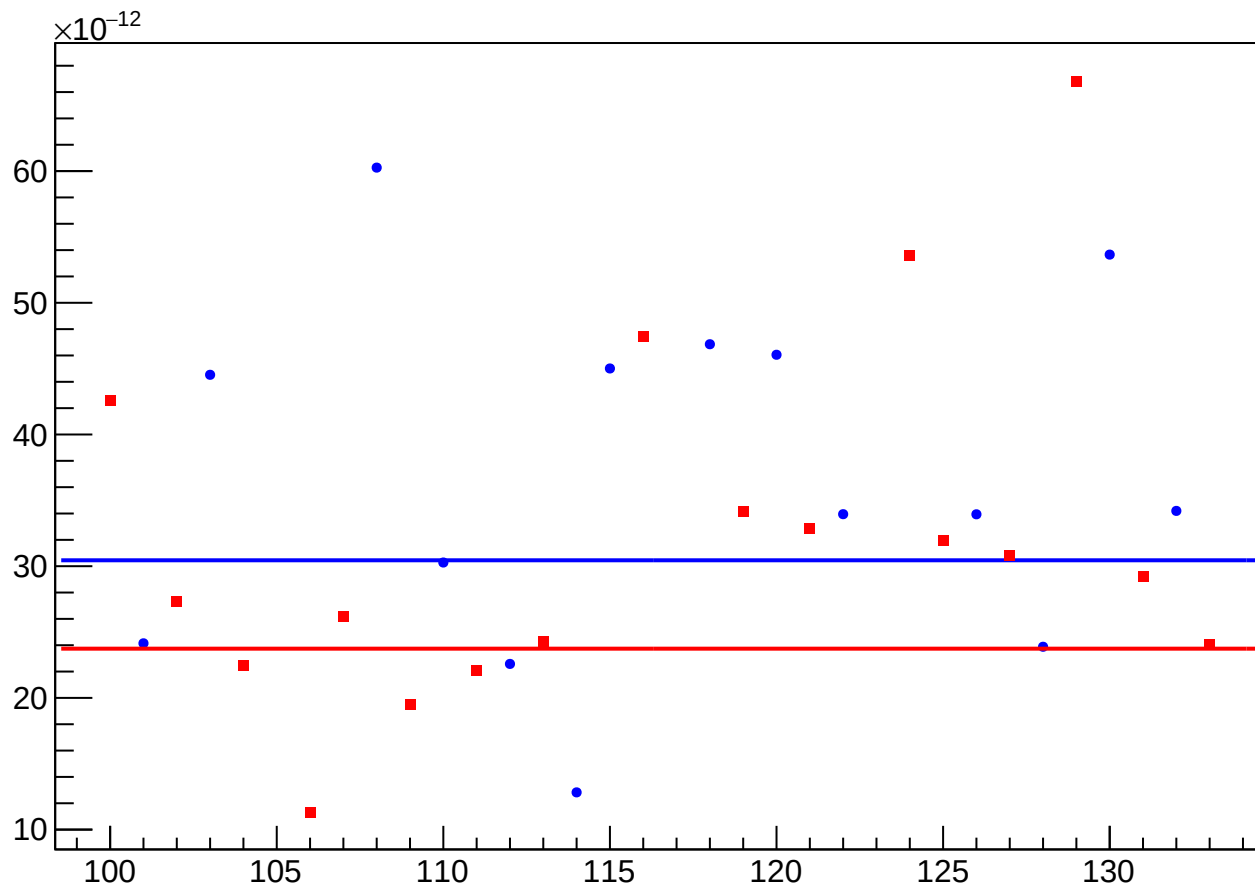
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 30.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 583269.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 693406.1/16

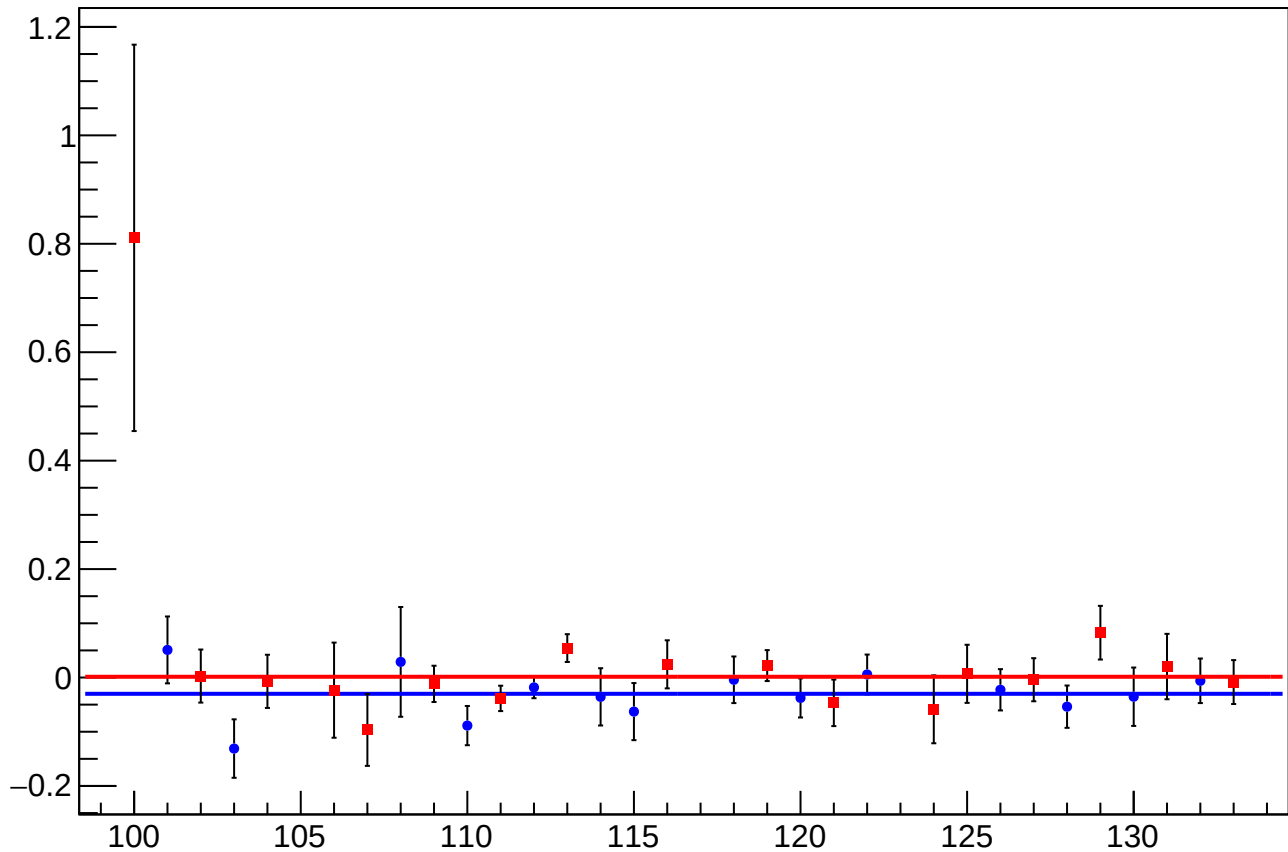
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1428476.9/30

- 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:  $-0.030 \pm 0.011$   $\chi^2/\text{NDF}$ : 11.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.001 \pm 0.010$   $\chi^2/\text{NDF}$ : 20.6/16

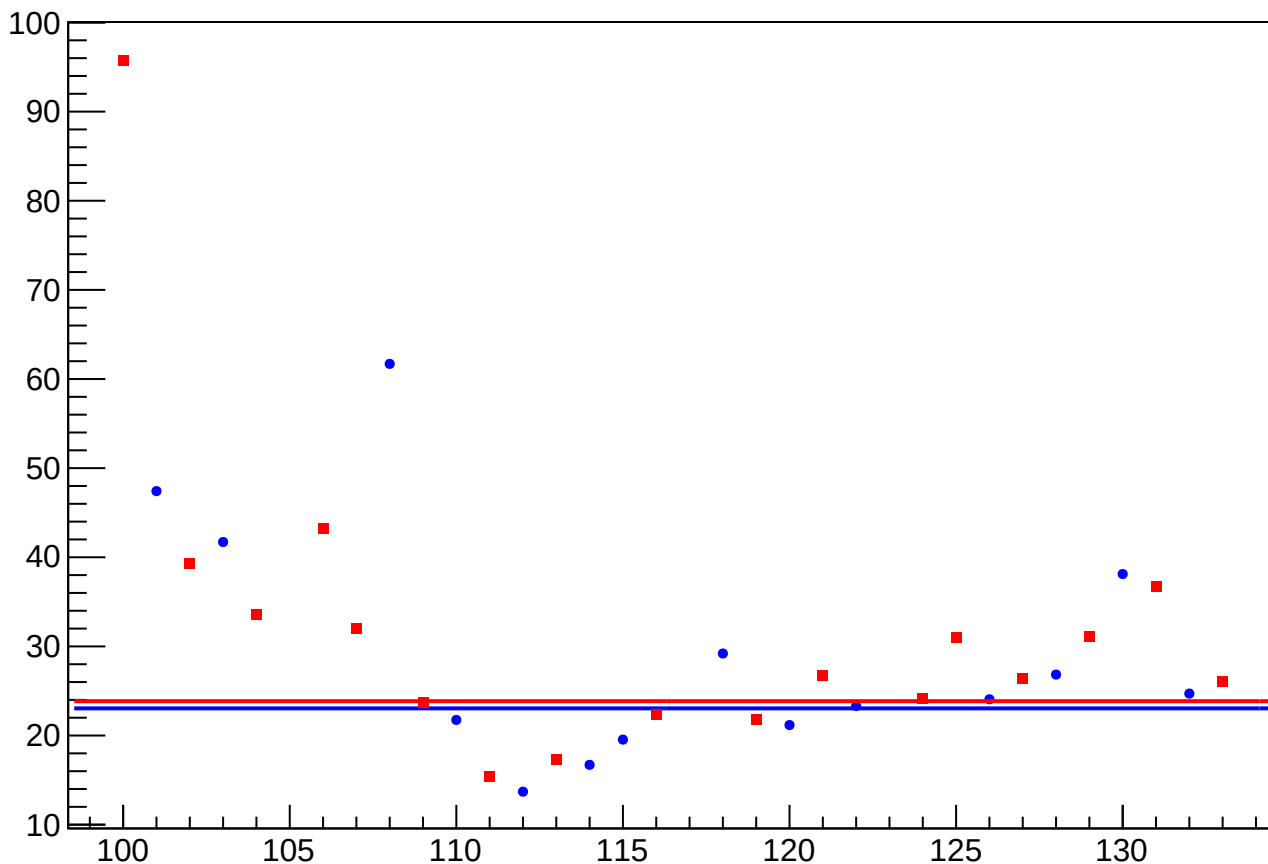
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.013 \pm 0.007$   $\chi^2/\text{NDF}$ : 36.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 23.048+/-0.007  $\chi^2/\text{NDF}$ : 1550491.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23.855+/-0.007  $\chi^2/\text{NDF}$ : 1084329.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

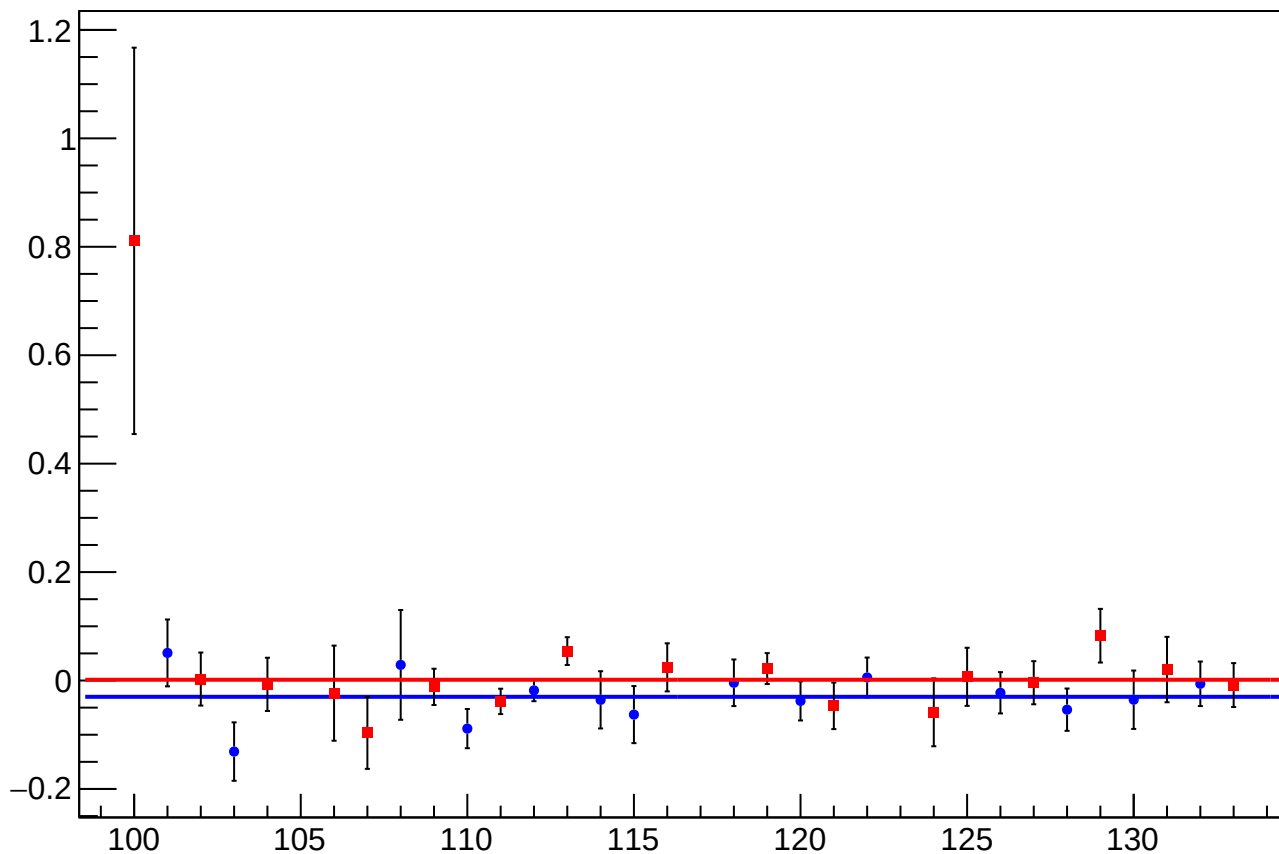
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.477+/-0.005  $\chi^2/\text{NDF}$ : 2641081.4/30

- 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: -0.030+/-0.011  $\chi^2/\text{NDF}$ : 11.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.010  $\chi^2/\text{NDF}$ : 20.6/16

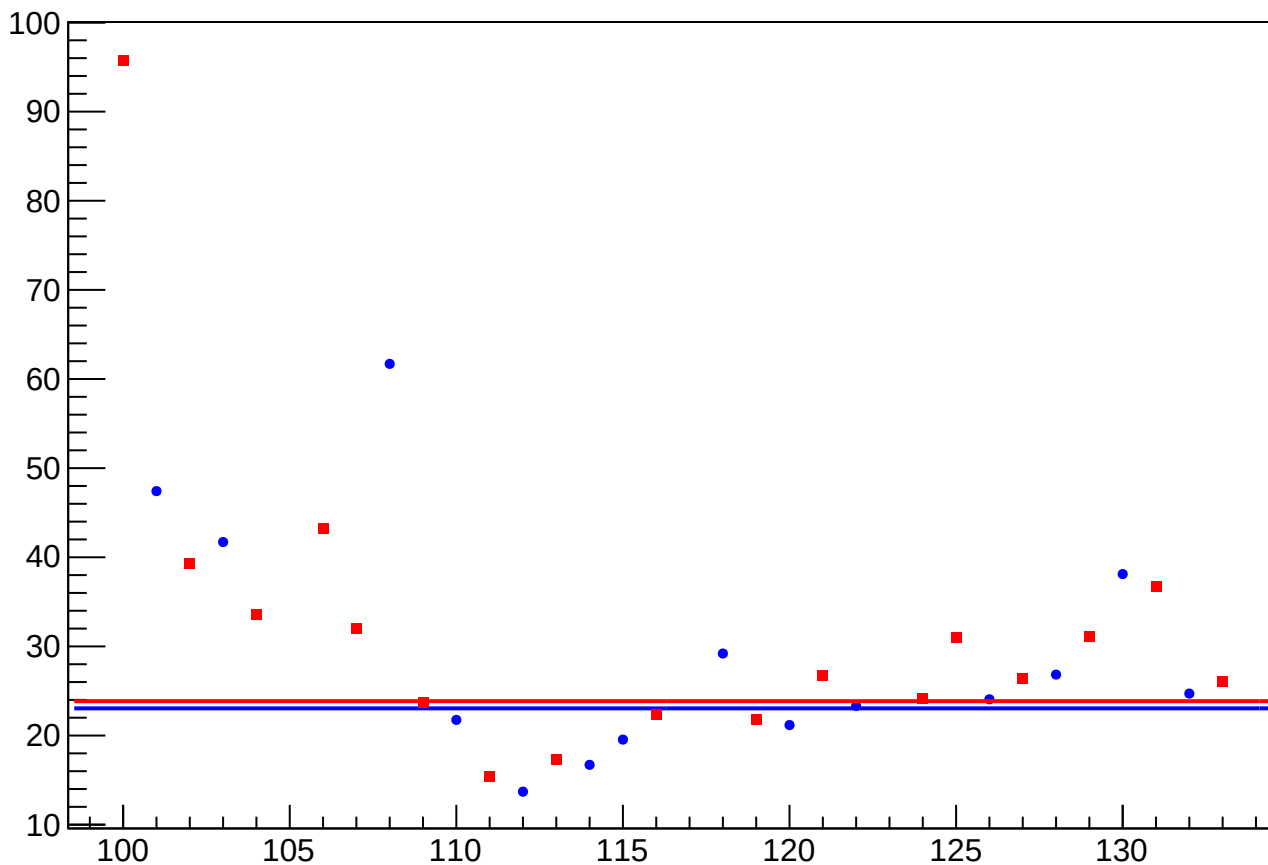
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.013+/-0.007  $\chi^2/\text{NDF}$ : 36.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 23.048 $\pm$ 0.007  $\chi^2$ /NDF: 1550491.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 23.855 $\pm$ 0.007  $\chi^2$ /NDF: 1084329.6/16

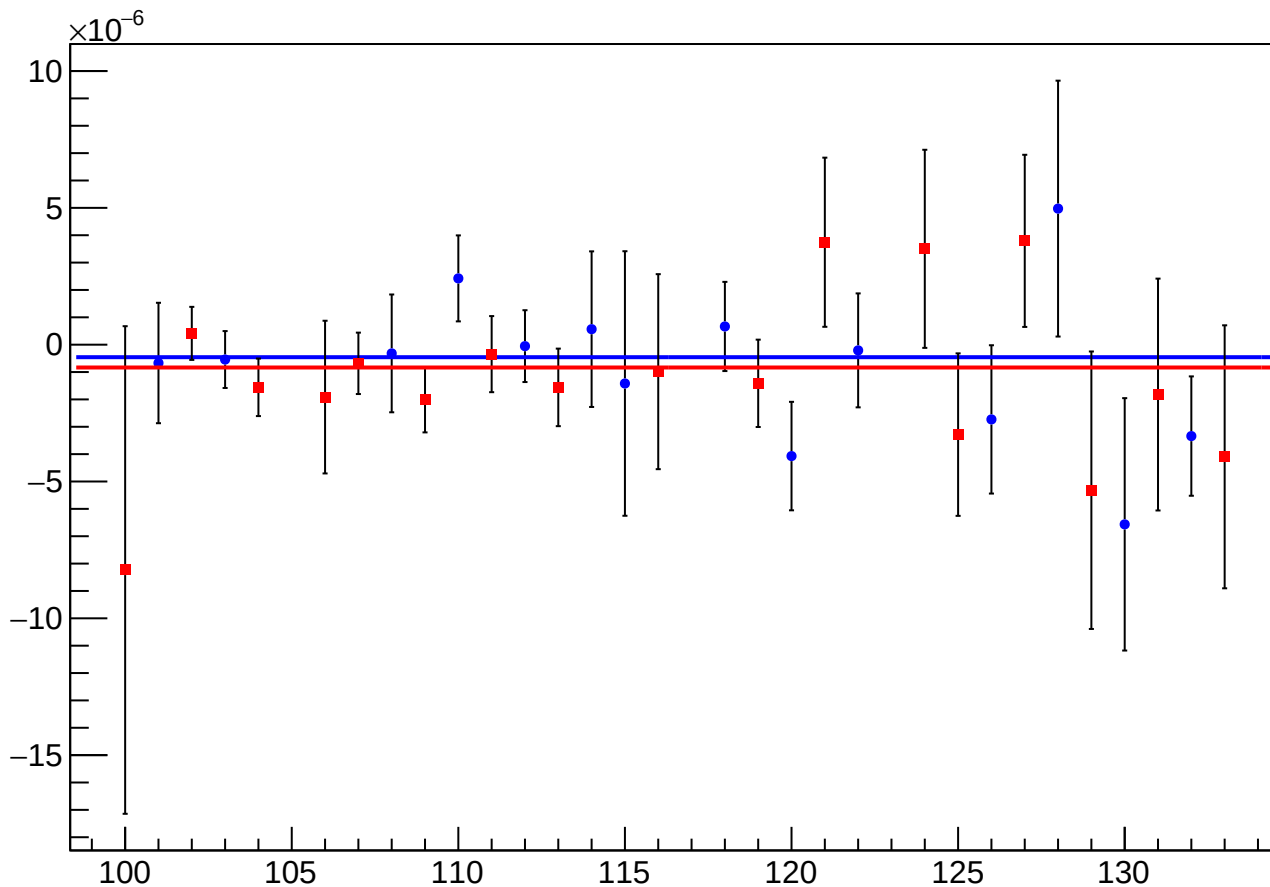
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.477 $\pm$ 0.005  $\chi^2$ /NDF: 2641081.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 13.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 12.3/16

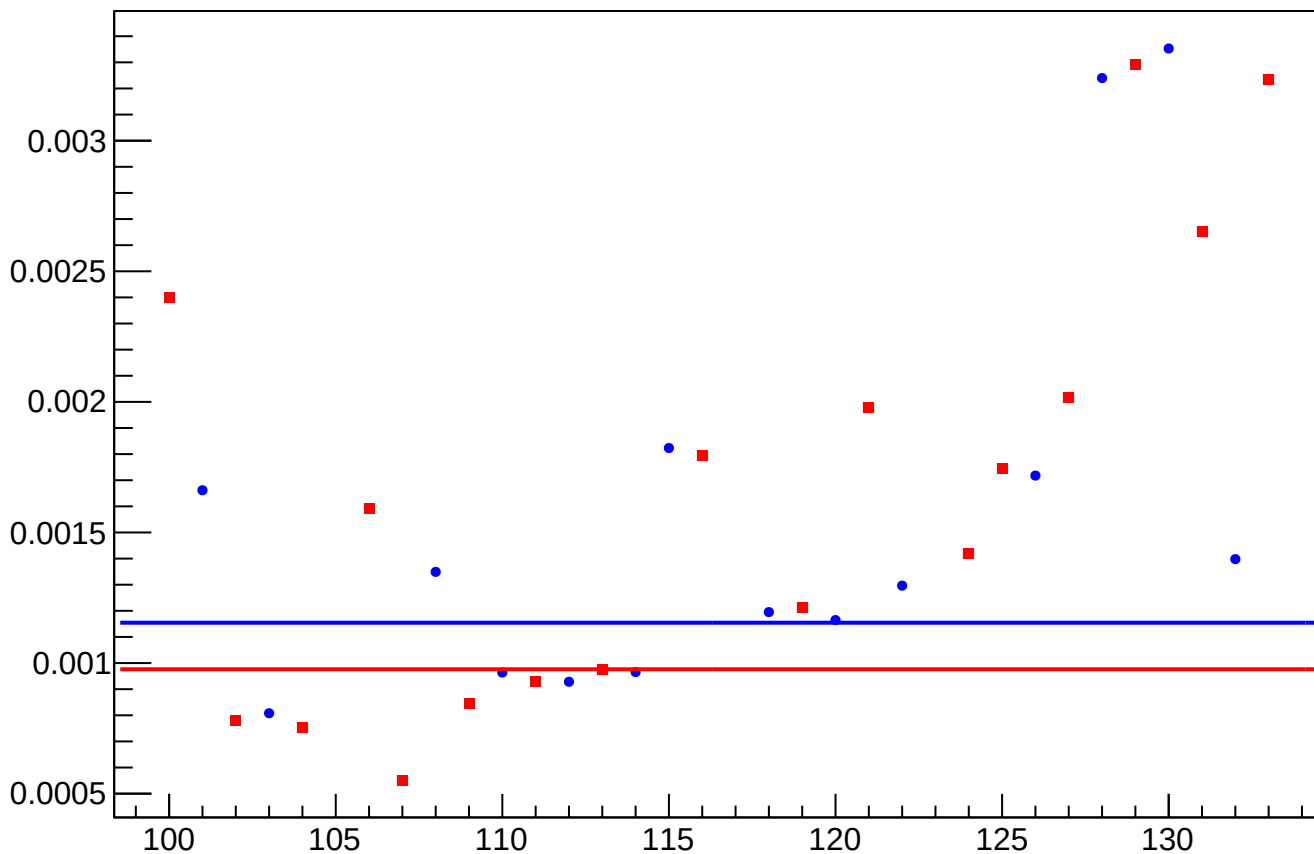
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 25.6/30

- sign 0.000+/-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  $\chi^2/\text{NDF}$ : 1454955.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2548233.7/16

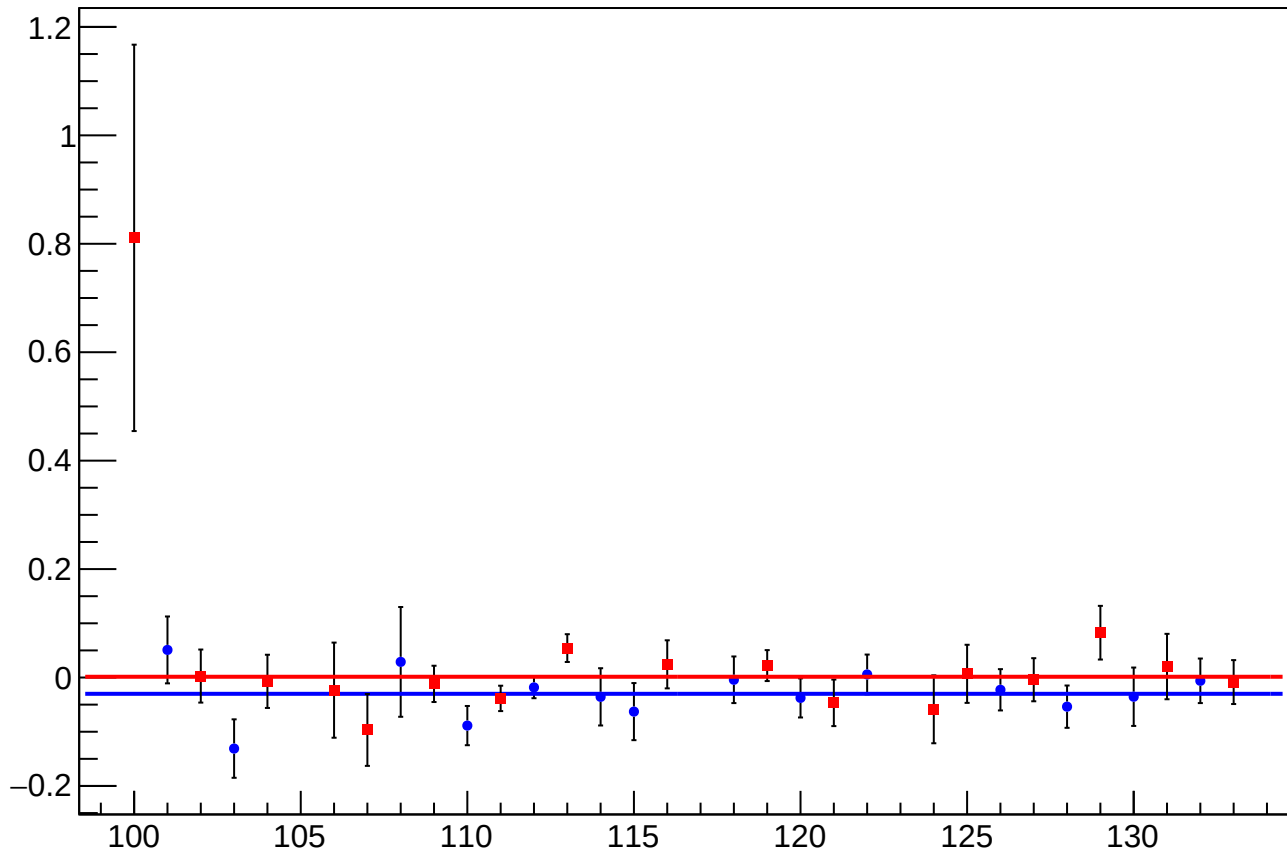
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4147413.1/30

- 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: -0.030 $\pm$ 0.011  $\chi^2$ /NDF: 11.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.001 $\pm$ 0.010  $\chi^2$ /NDF: 20.6/16

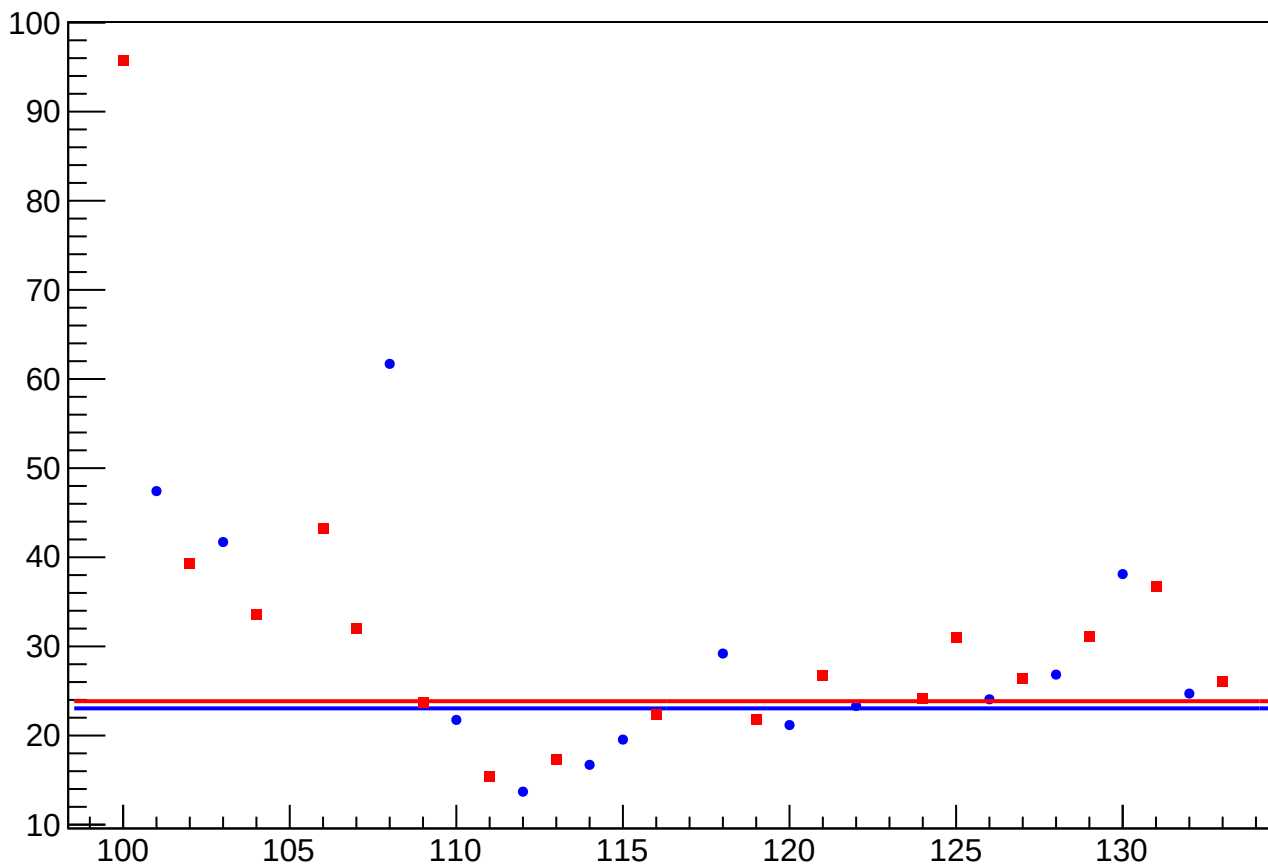
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.007  $\chi^2$ /NDF: 36.4/30

- 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: 23.048 $\pm$ 0.007  $\chi^2$ /NDF: 1550505.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 23.855 $\pm$ 0.007  $\chi^2$ /NDF: 1084369.2/16

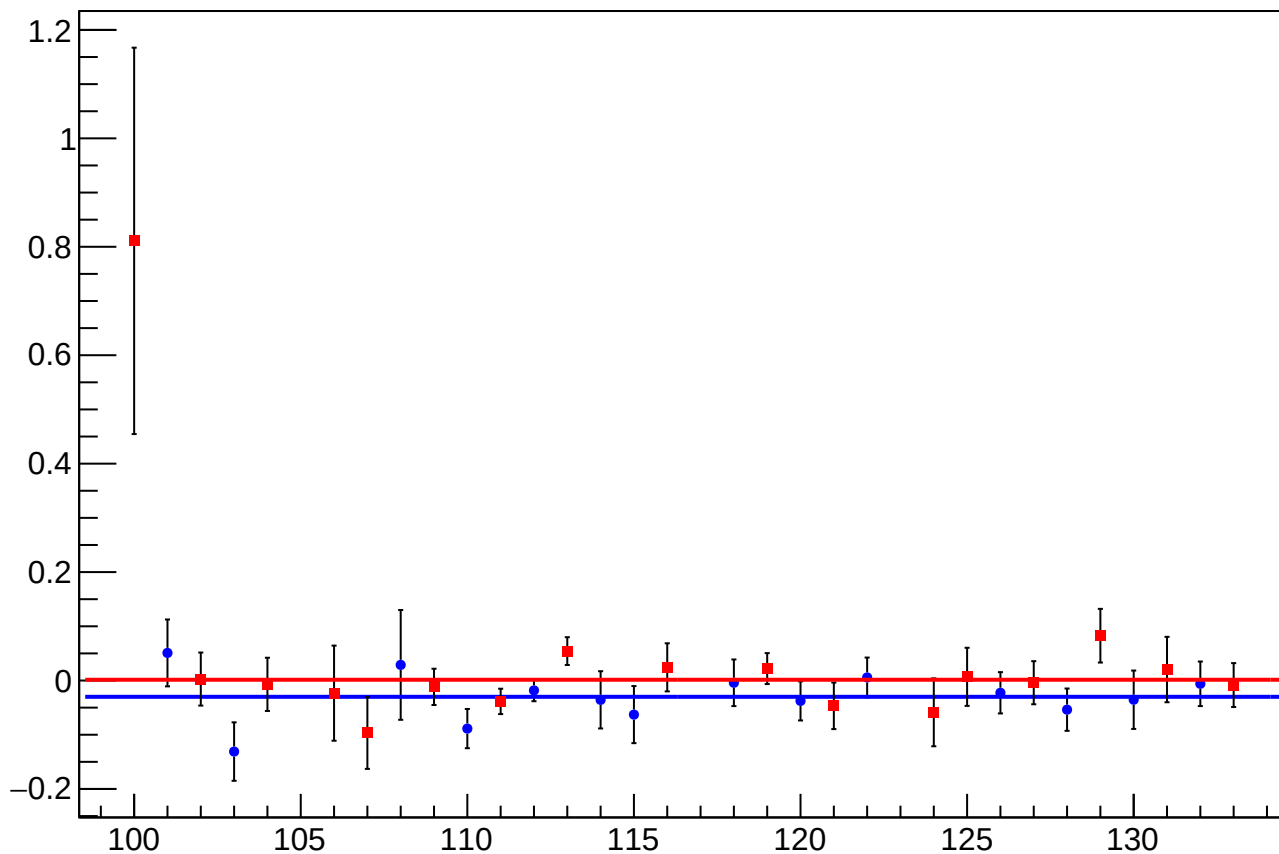
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.477 $\pm$ 0.005  $\chi^2$ /NDF: 2641136.5/30

- 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: -0.030 $\pm$ 0.011  $\chi^2$ /NDF: 11.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.001 $\pm$ 0.010  $\chi^2$ /NDF: 20.6/16

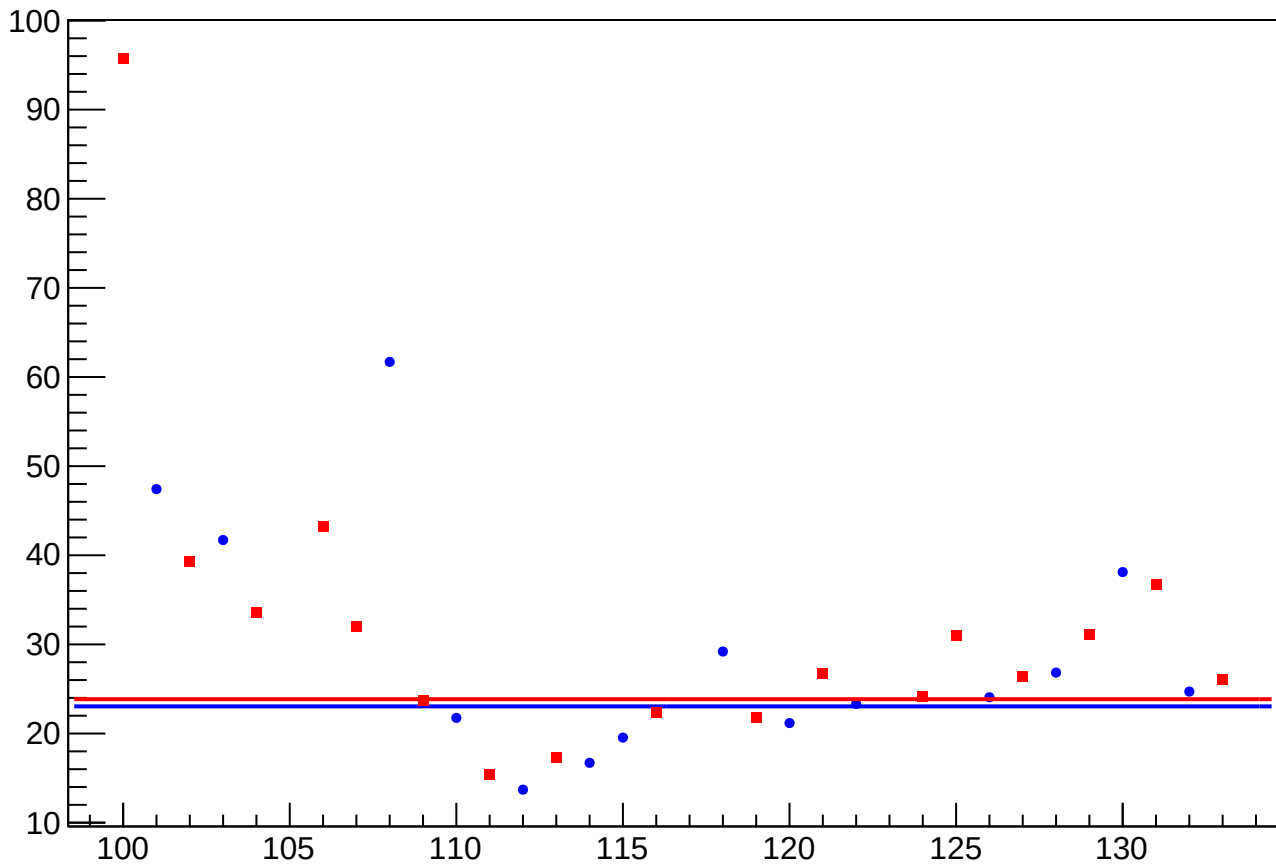
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.013 $\pm$ 0.007  $\chi^2$ /NDF: 36.4/30

- 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: 23.048 $\pm$ 0.007  $\chi^2$ /NDF: 1550505.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 23.855 $\pm$ 0.007  $\chi^2$ /NDF: 1084369.2/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

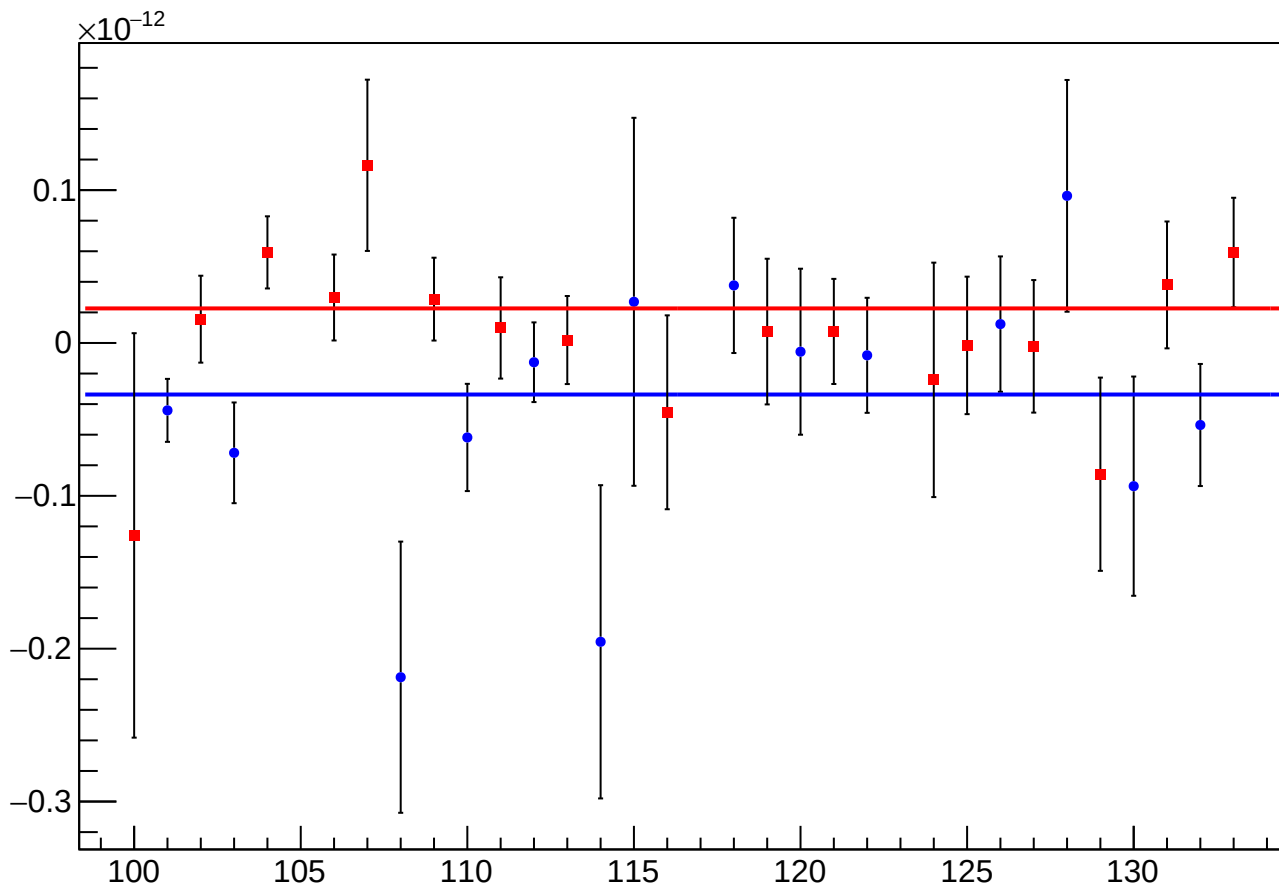
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.477 $\pm$ 0.005  $\chi^2$ /NDF: 2641136.5/30

- 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  $\chi^2/\text{NDF}$ : 18.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13.9/16

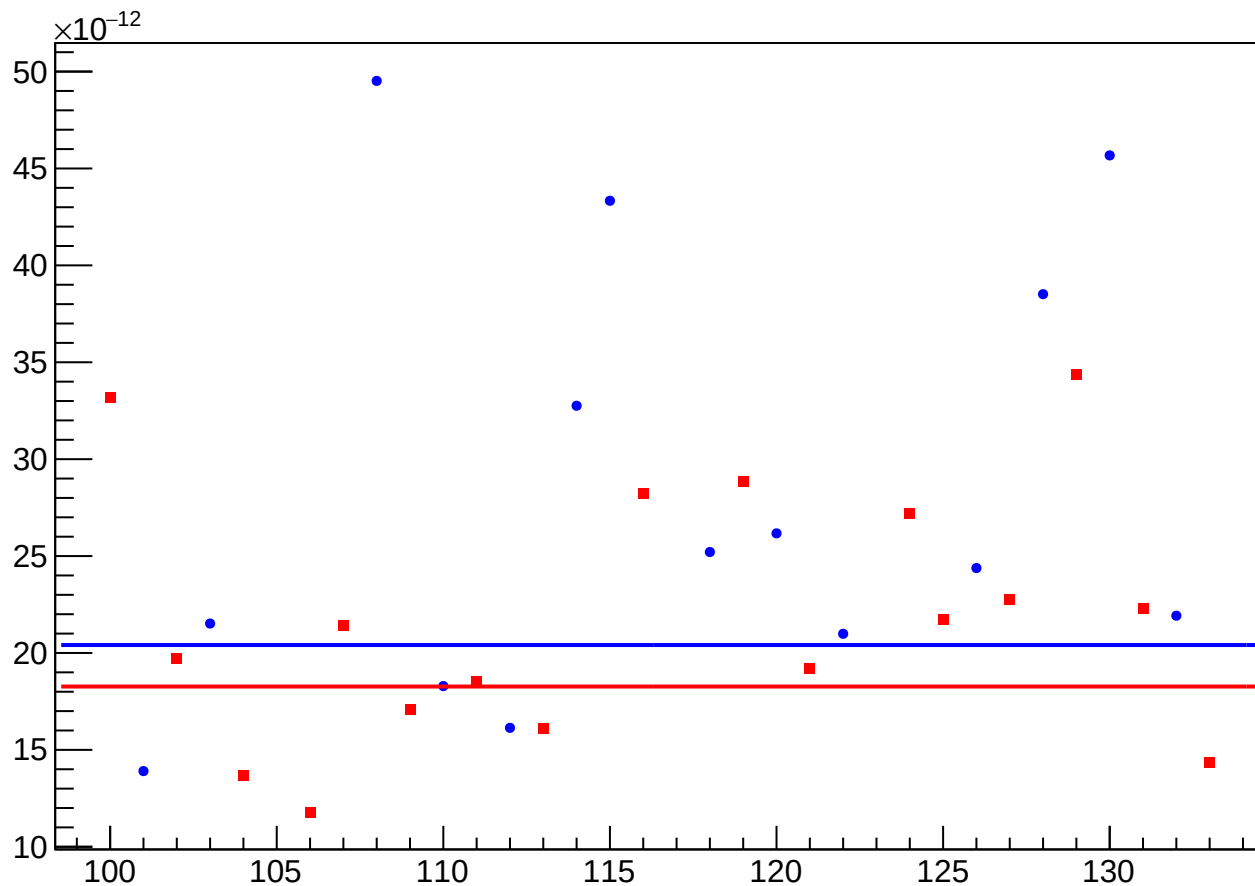
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 48.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1007422.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 616141.4/16

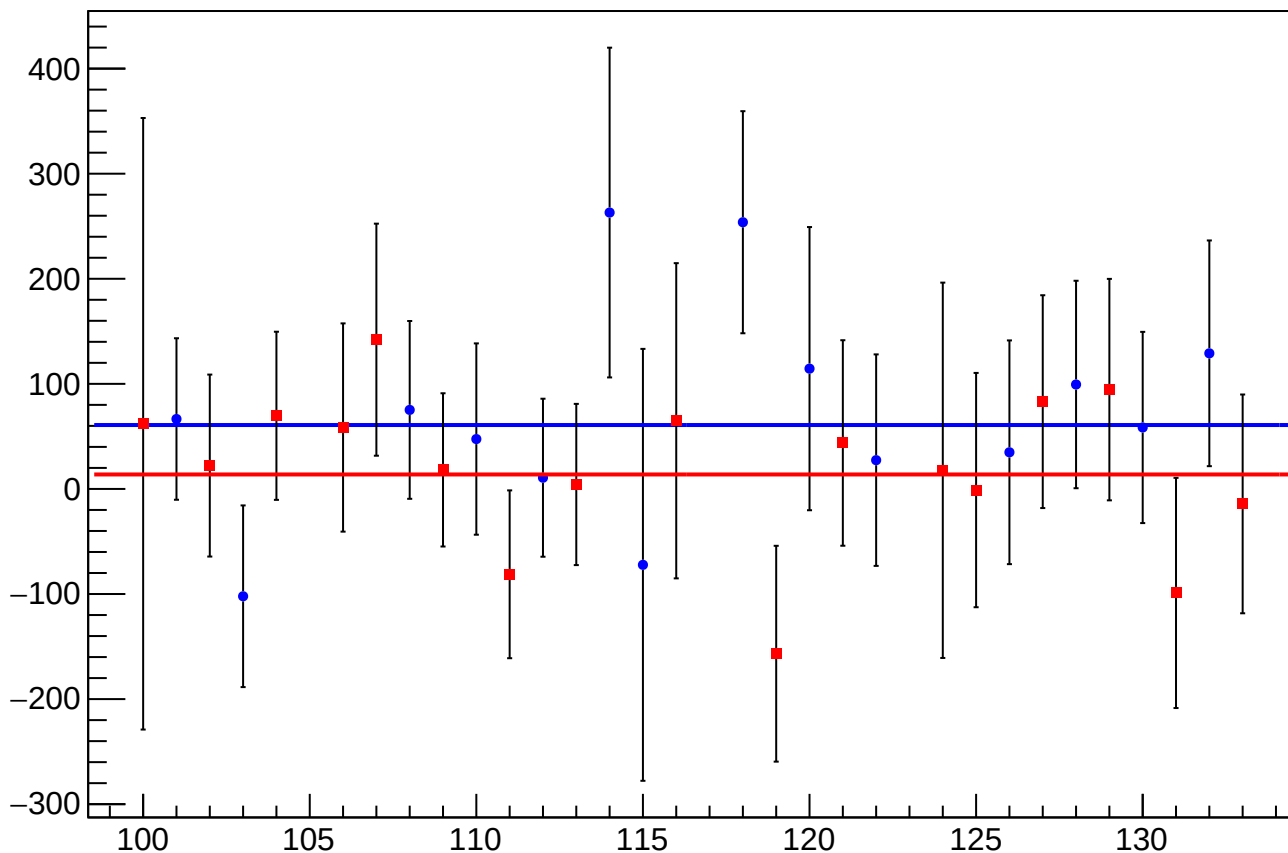
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1671281.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 60.818+/-26.294  $\chi^2/\text{NDF}$ : 10.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13.770+/-24.119  $\chi^2/\text{NDF}$ : 8.7/16

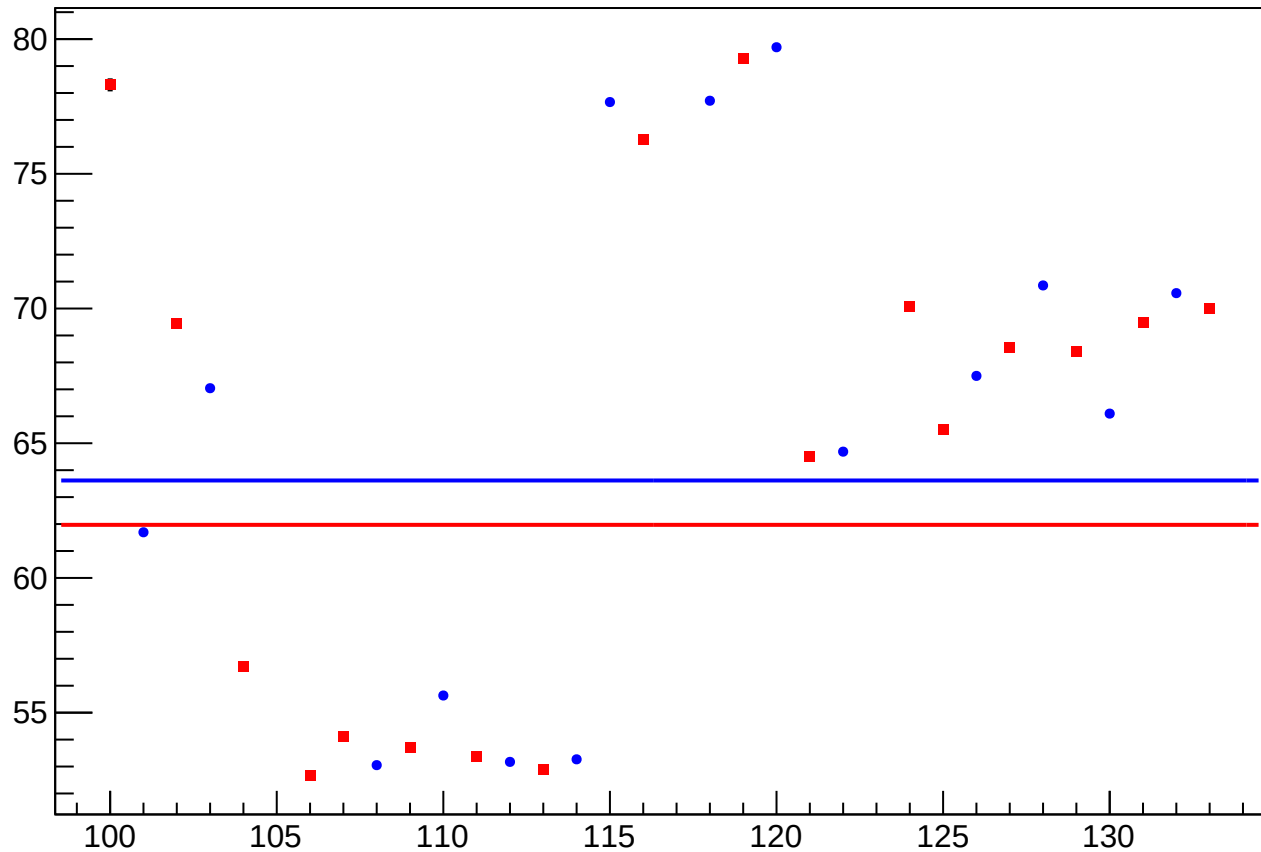
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.268+/-17.774  $\chi^2/\text{NDF}$ : 20.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 63.618+/-0.019  $\chi^2/\text{NDF}$ : 195176.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 61.971+/-0.017  $\chi^2/\text{NDF}$ : 254351.8/16

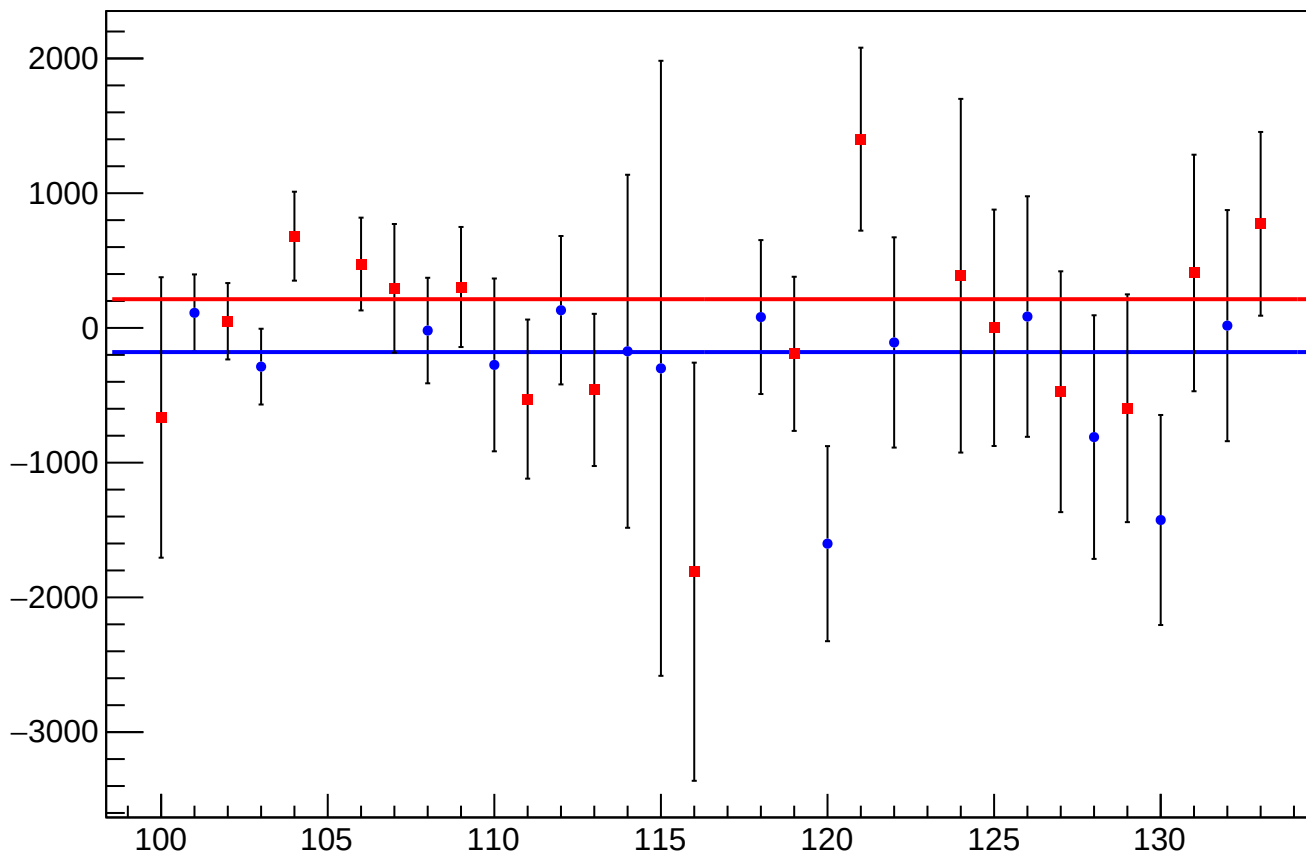
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 62.723+/-0.013  $\chi^2/\text{NDF}$ : 453788.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_reg\_correction\_mean vs Slug



Right In: -179.246 $\pm$ 141.346  $\chi^2$ /NDF: 9.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 213.263 $\pm$ 129.068  $\chi^2$ /NDF: 14.3/16

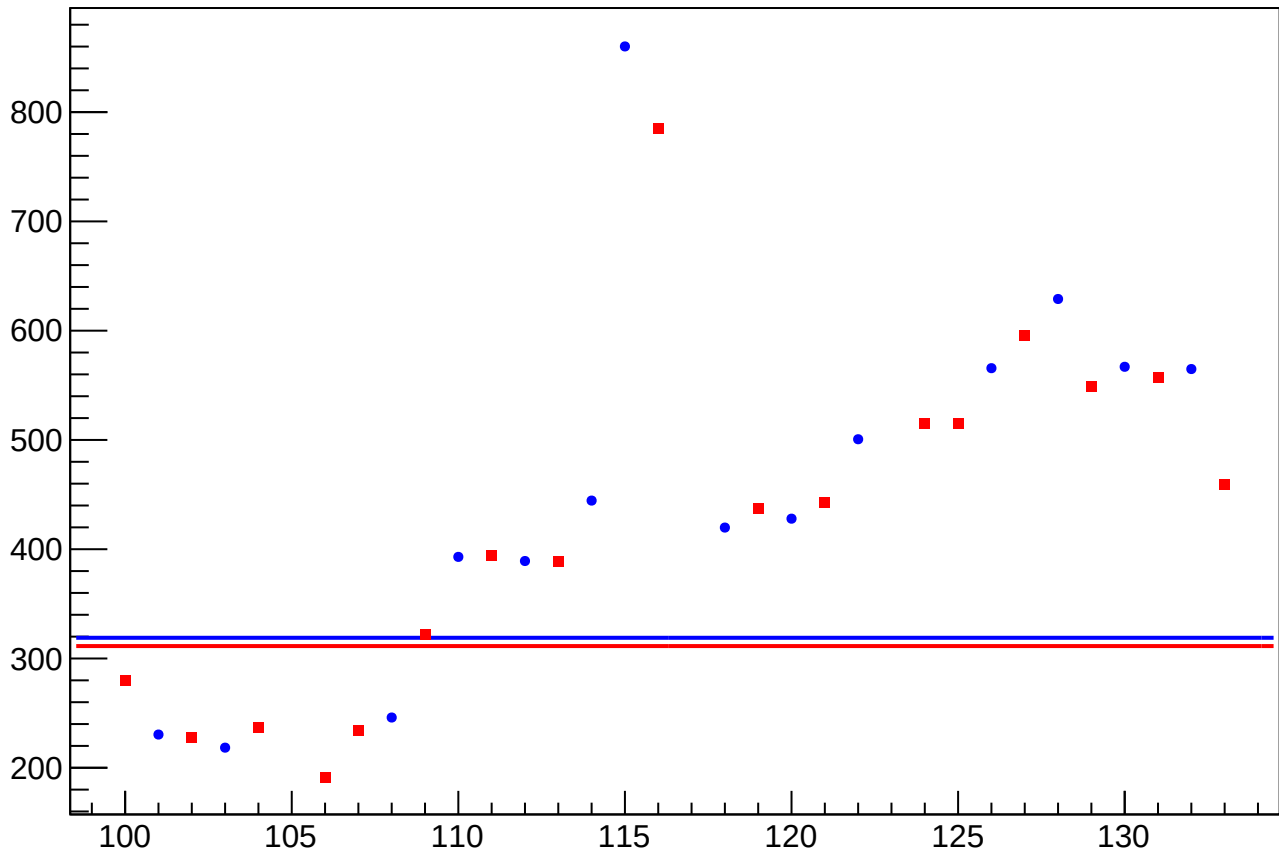
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 34.793 $\pm$ 95.310  $\chi^2$ /NDF: 27.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_reg\_correction\_rms vs Slug



Right In: 318.955+/-0.100  $\chi^2/\text{NDF}$ : 1678858.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 311.364+/-0.091  $\chi^2/\text{NDF}$ : 1778303.8/16

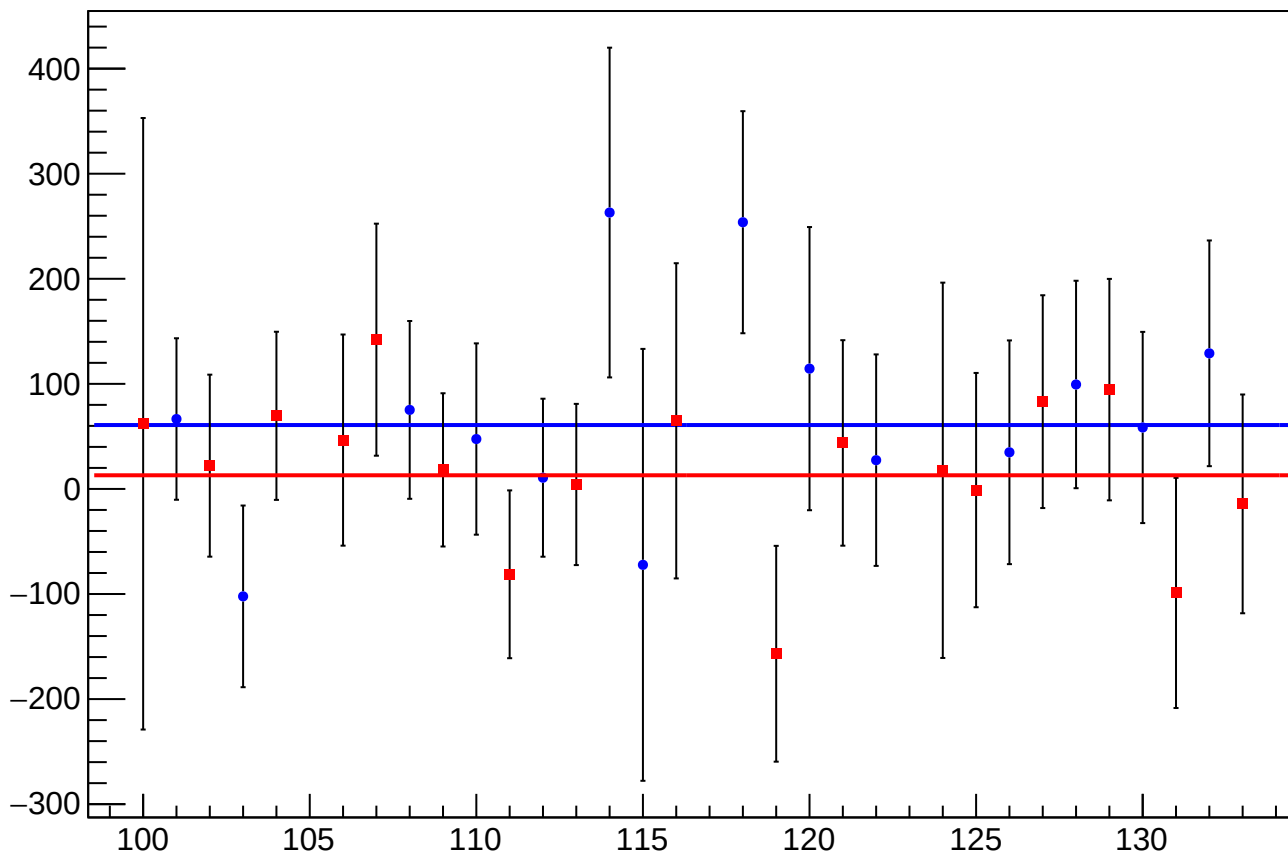
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 314.816+/-0.067  $\chi^2/\text{NDF}$ : 3460307.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 60.813 $\pm$ 26.294  $\chi^2$ /NDF: 10.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 12.998 $\pm$ 24.139  $\chi^2$ /NDF: 8.6/16

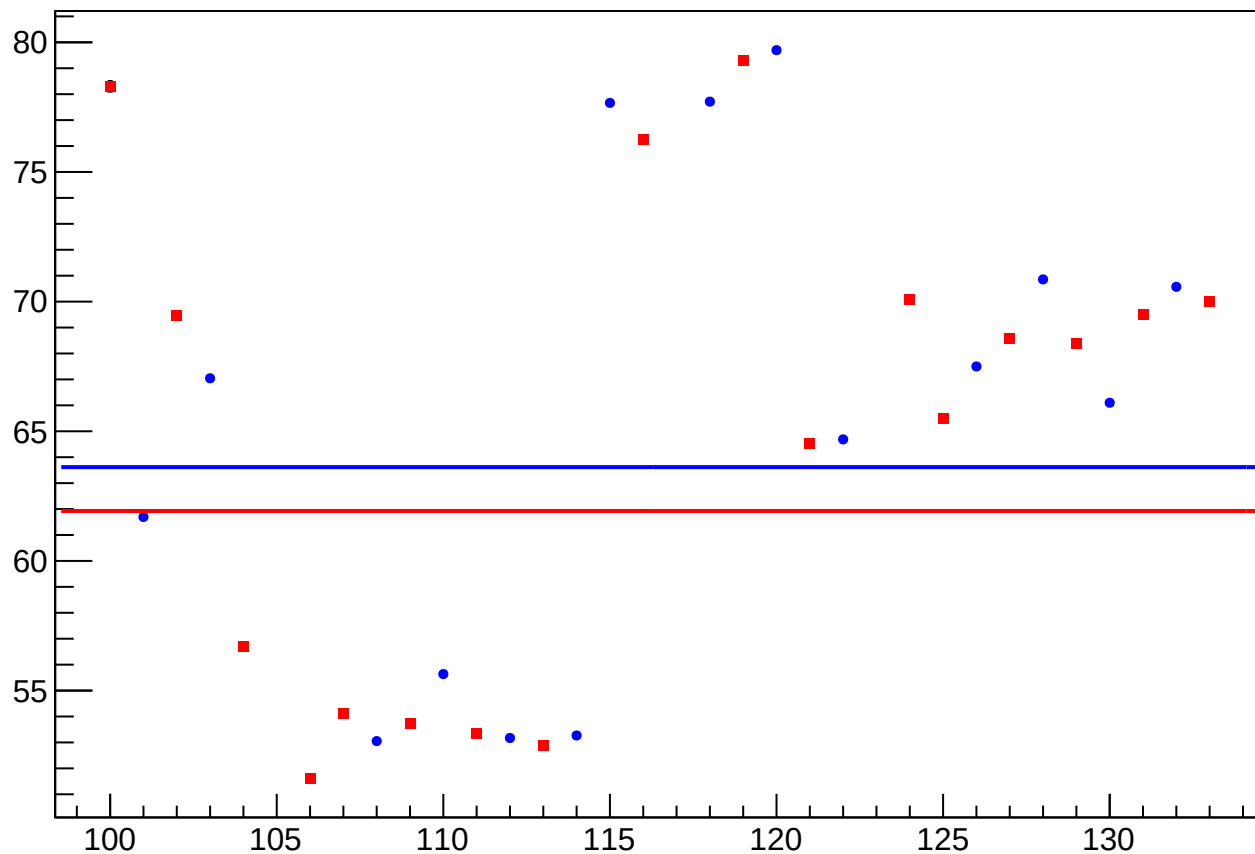
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 34.866 $\pm$ 17.782  $\chi^2$ /NDF: 20.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In:  $63.618 \pm 0.019$   $\chi^2/\text{NDF}$ : 195176.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $61.926 \pm 0.017$   $\chi^2/\text{NDF}$ : 258063.3/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

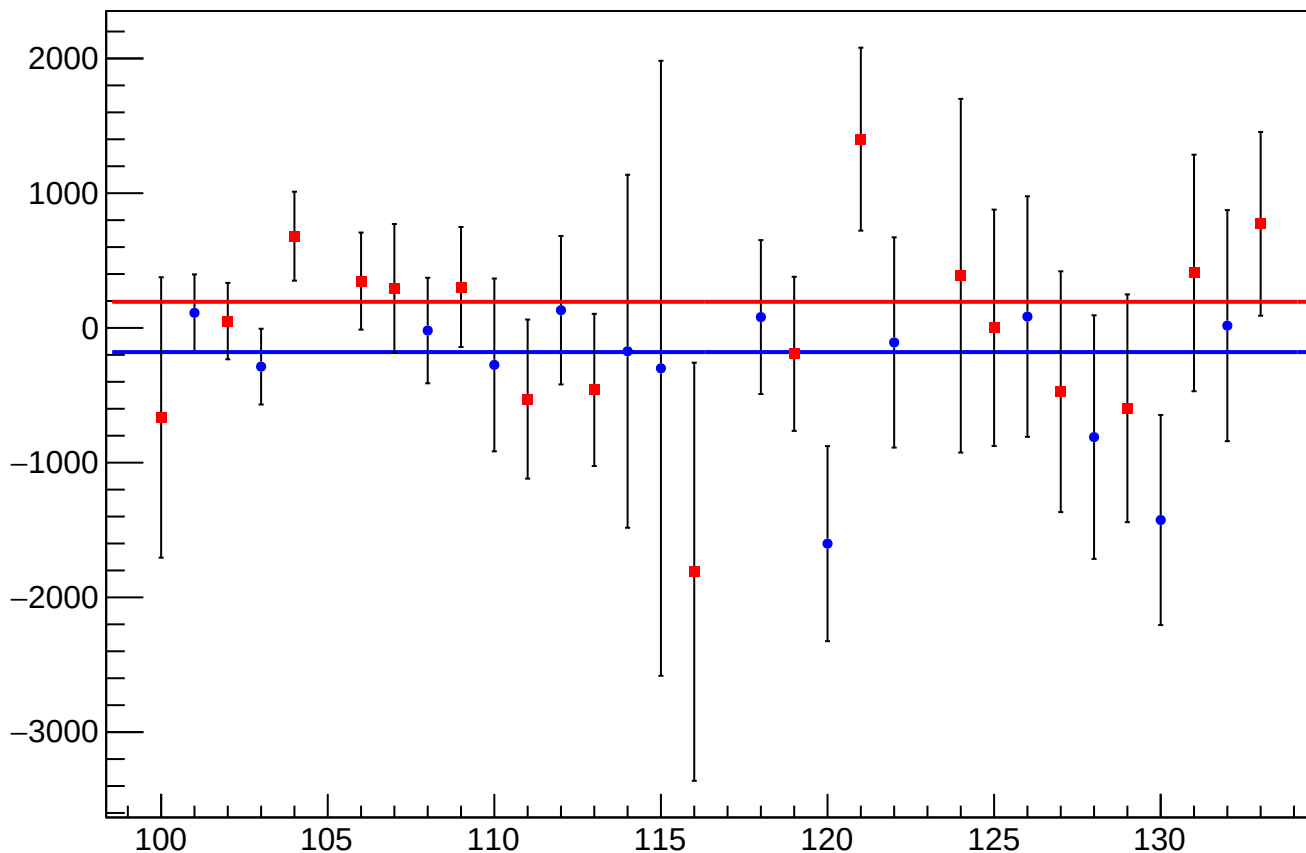
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $62.699 \pm 0.013$   $\chi^2/\text{NDF}$ : 457732.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_48\_dd\_cor\_correction\_mean vs Slug



Right In: -179.229+/-141.347  $\chi^2/\text{NDF}$ : 9.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 193.880+/-129.882  $\chi^2/\text{NDF}$ : 13.8/16

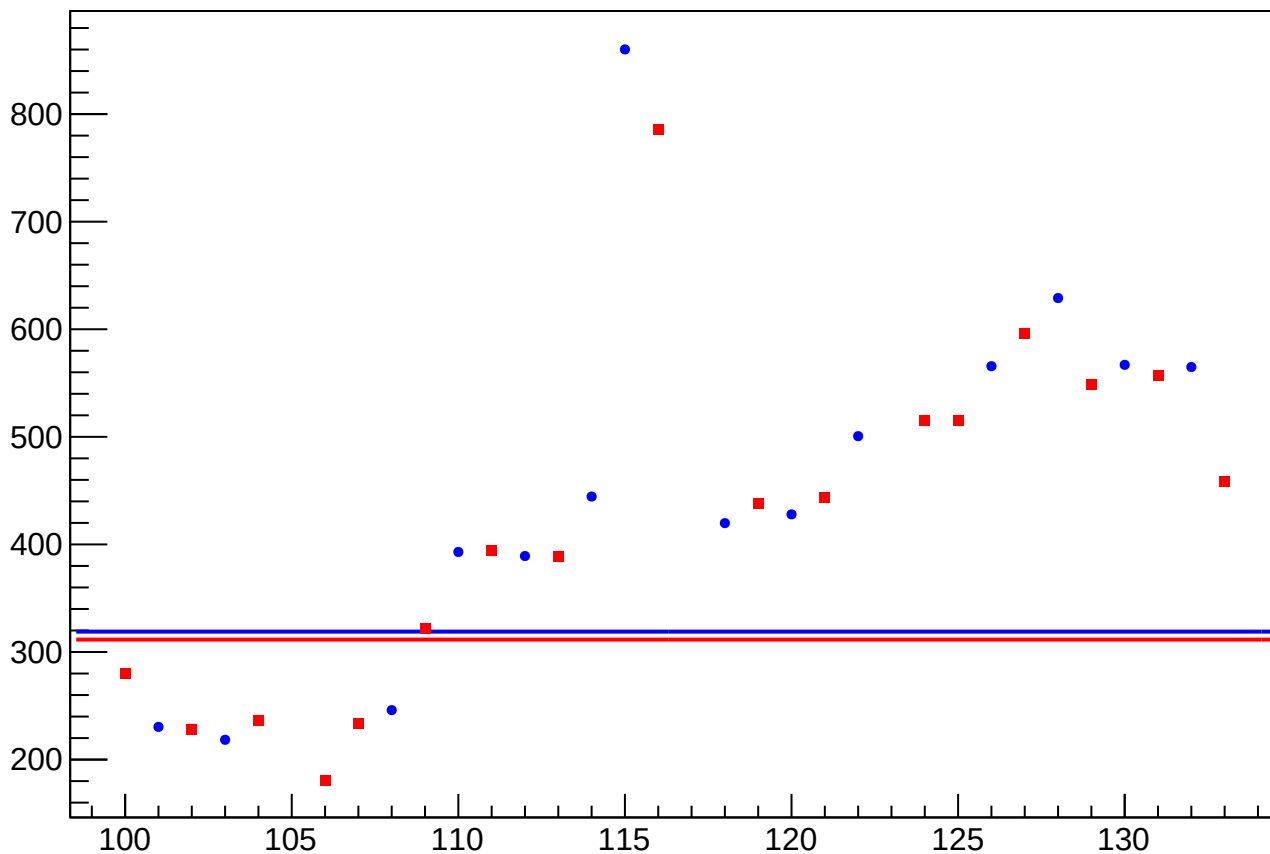
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.069+/-95.637  $\chi^2/\text{NDF}$ : 26.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_cor\_correction\_rms vs Slug



Right In: 318.958+/-0.100  $\chi^2/\text{NDF}$ : 1678803.1/13

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

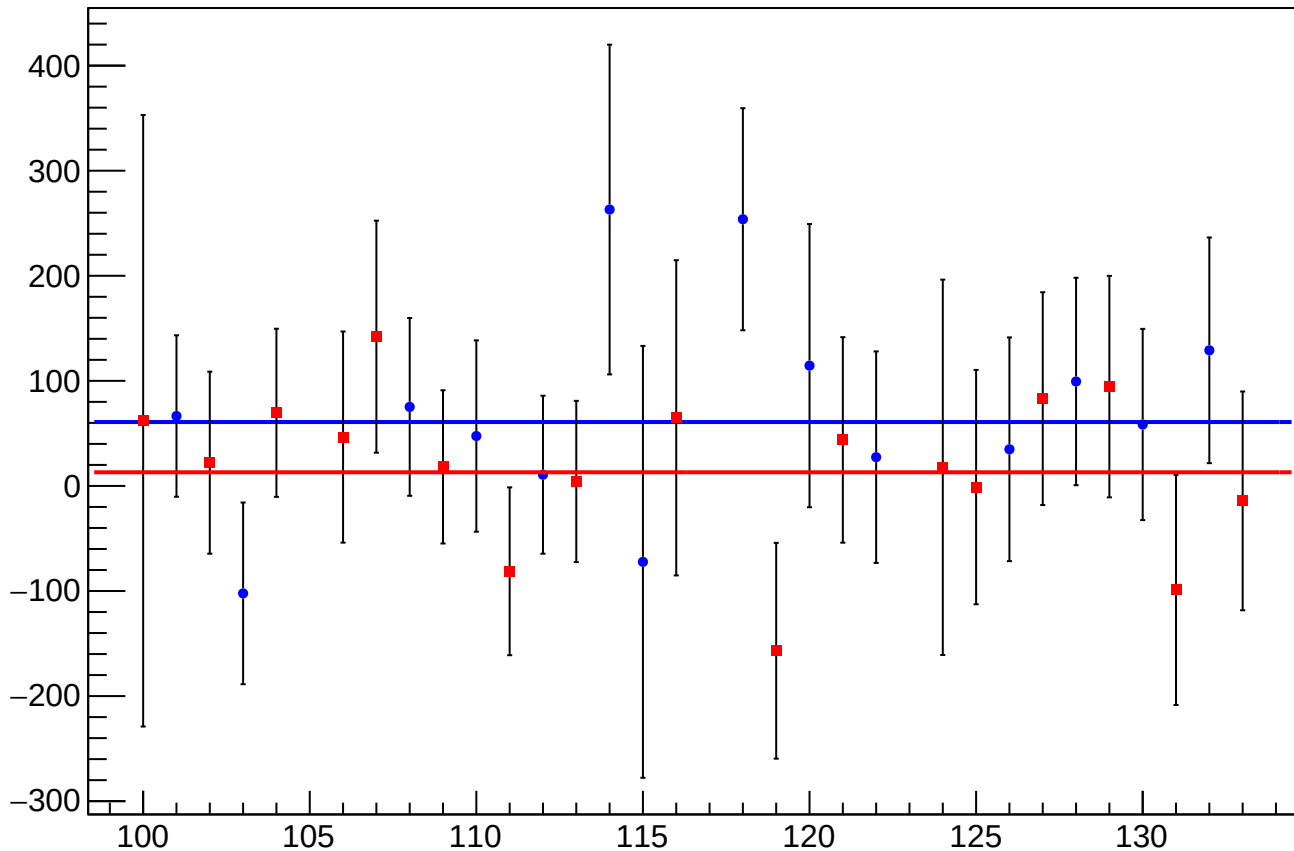
Right Out: 311.544+/-0.092  $\chi^2/\text{NDF}$ : 1796842.9/16

All: 314.938+/-0.068  $\chi^2/\text{NDF}$ : 3478629.6/30

- 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\_sam\_37\_48\_dd\_mean vs Slug



Right In: 60.813±26.294  $\chi^2/\text{NDF}$ : 10.4/13

Left Out: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12.998±24.139  $\chi^2/\text{NDF}$ : 8.6/16

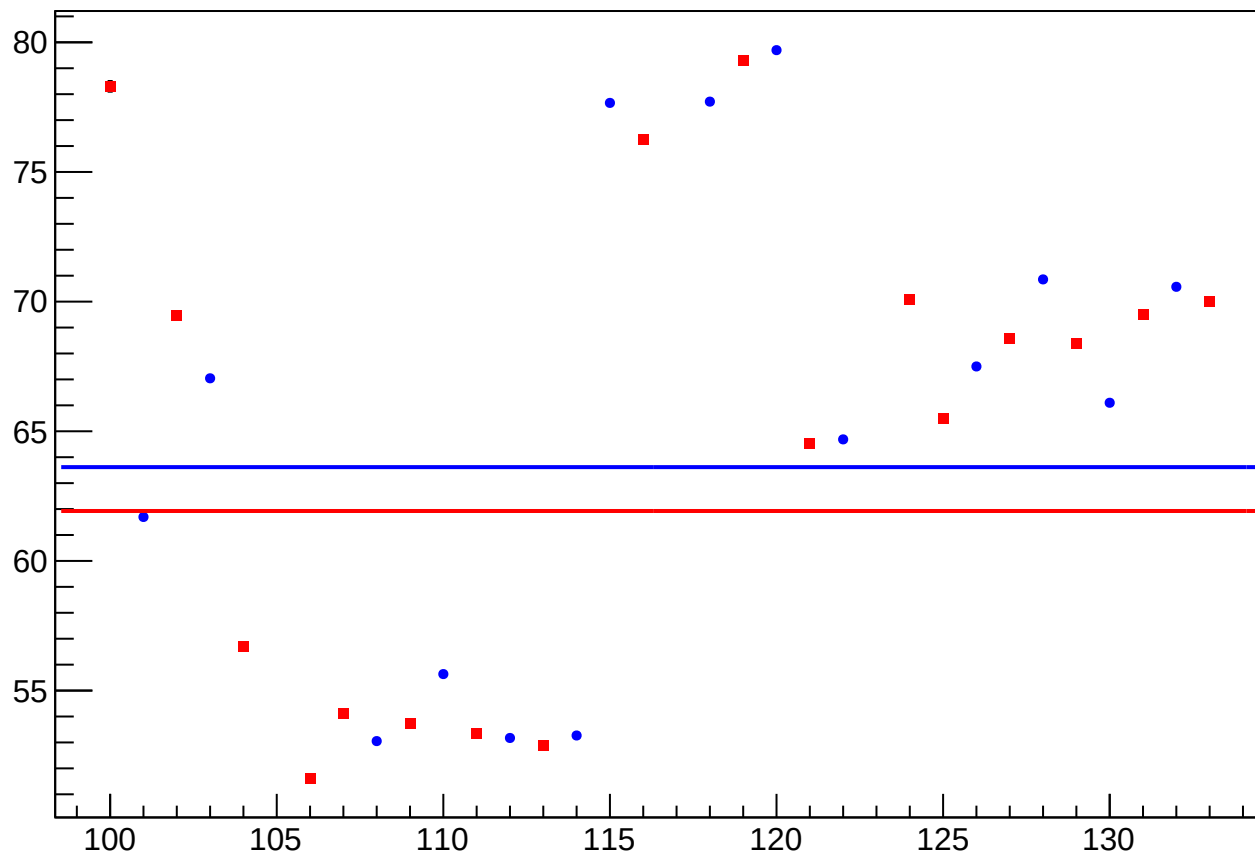
Left In: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.866±17.782  $\chi^2/\text{NDF}$ : 20.7/30

- sign 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 63.618+/-0.019  $\chi^2/\text{NDF}$ : 195176.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 61.926+/-0.017  $\chi^2/\text{NDF}$ : 258063.3/16

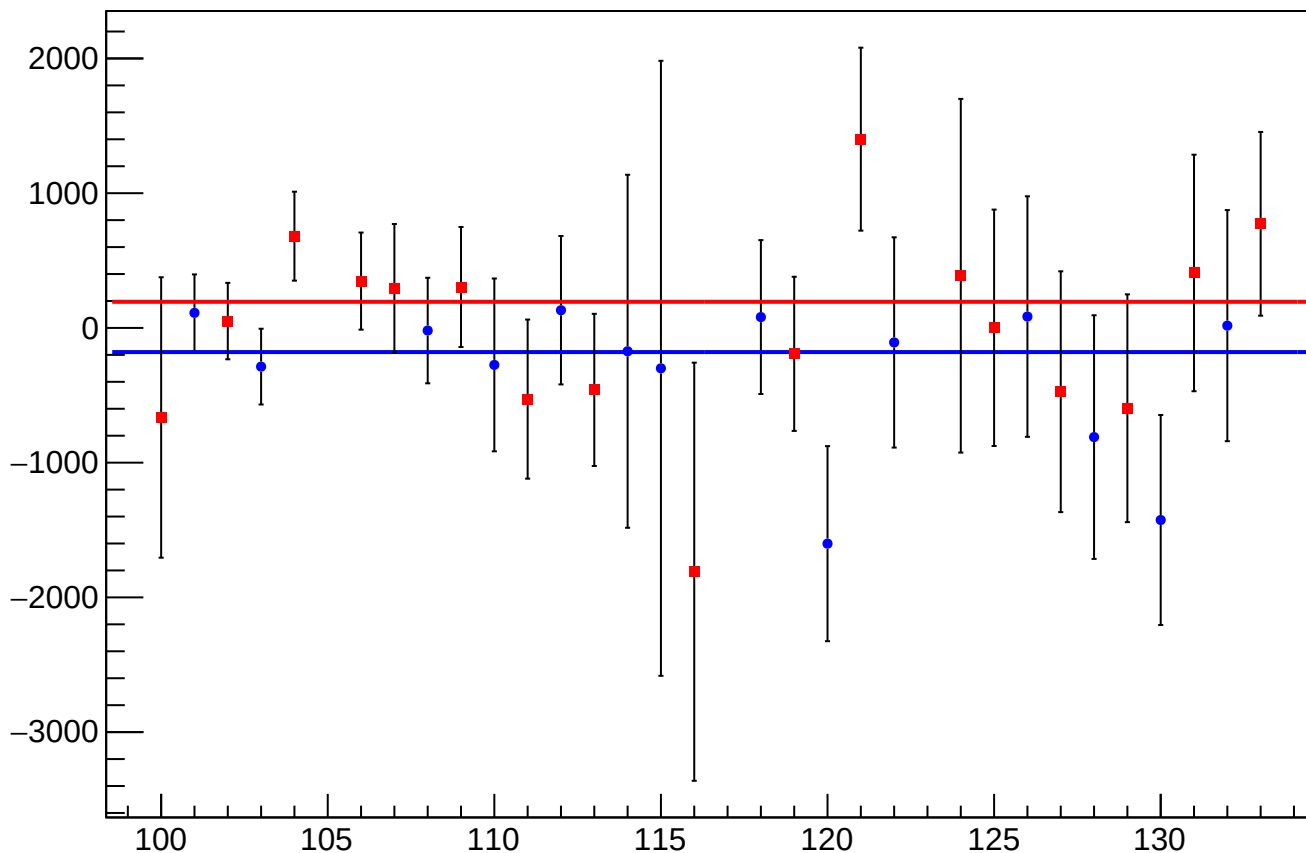
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 62.699+/-0.013  $\chi^2/\text{NDF}$ : 457732.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In:  $-179.229 \pm 141.347$   $\chi^2/\text{NDF}$ : 9.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $193.880 \pm 129.882$   $\chi^2/\text{NDF}$ : 13.8/16

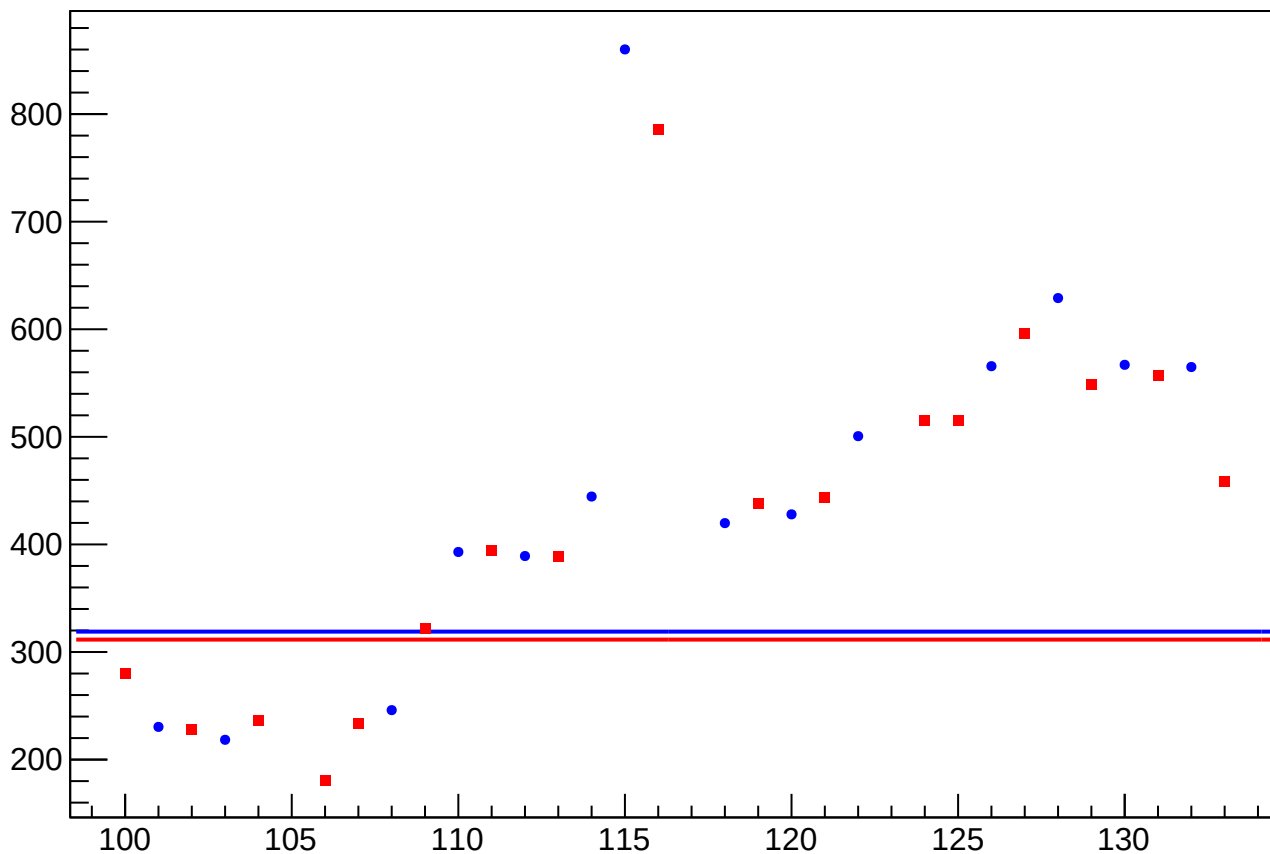
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $23.069 \pm 95.637$   $\chi^2/\text{NDF}$ : 26.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 318.958+/-0.100  $\chi^2/\text{NDF}$ : 1678803.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 311.544+/-0.092  $\chi^2/\text{NDF}$ : 1796842.9/16

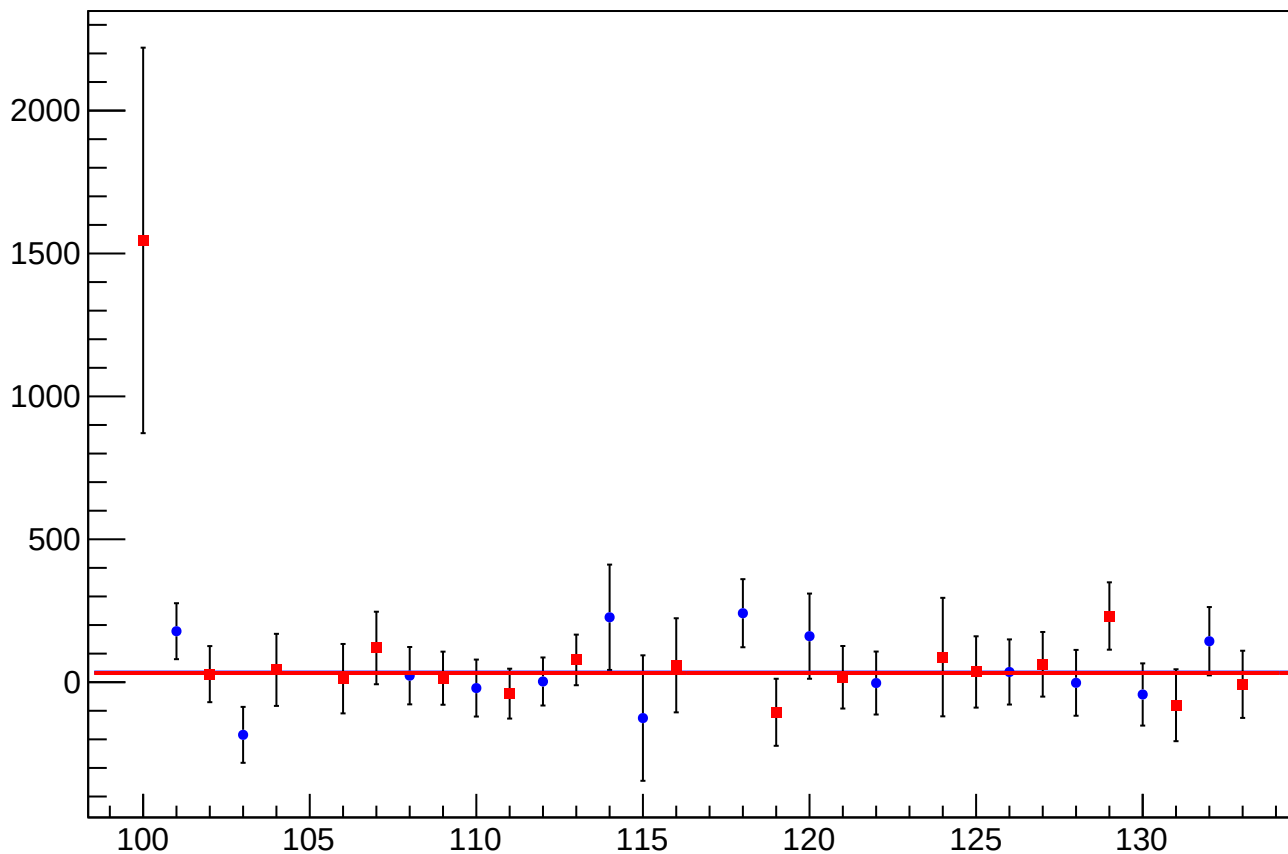
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 314.938+/-0.068  $\chi^2/\text{NDF}$ : 3478629.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 33.503 $\pm$ 30.081  $\chi^2$ /NDF: 14.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 32.152 $\pm$ 28.400  $\chi^2$ /NDF: 11.9/16

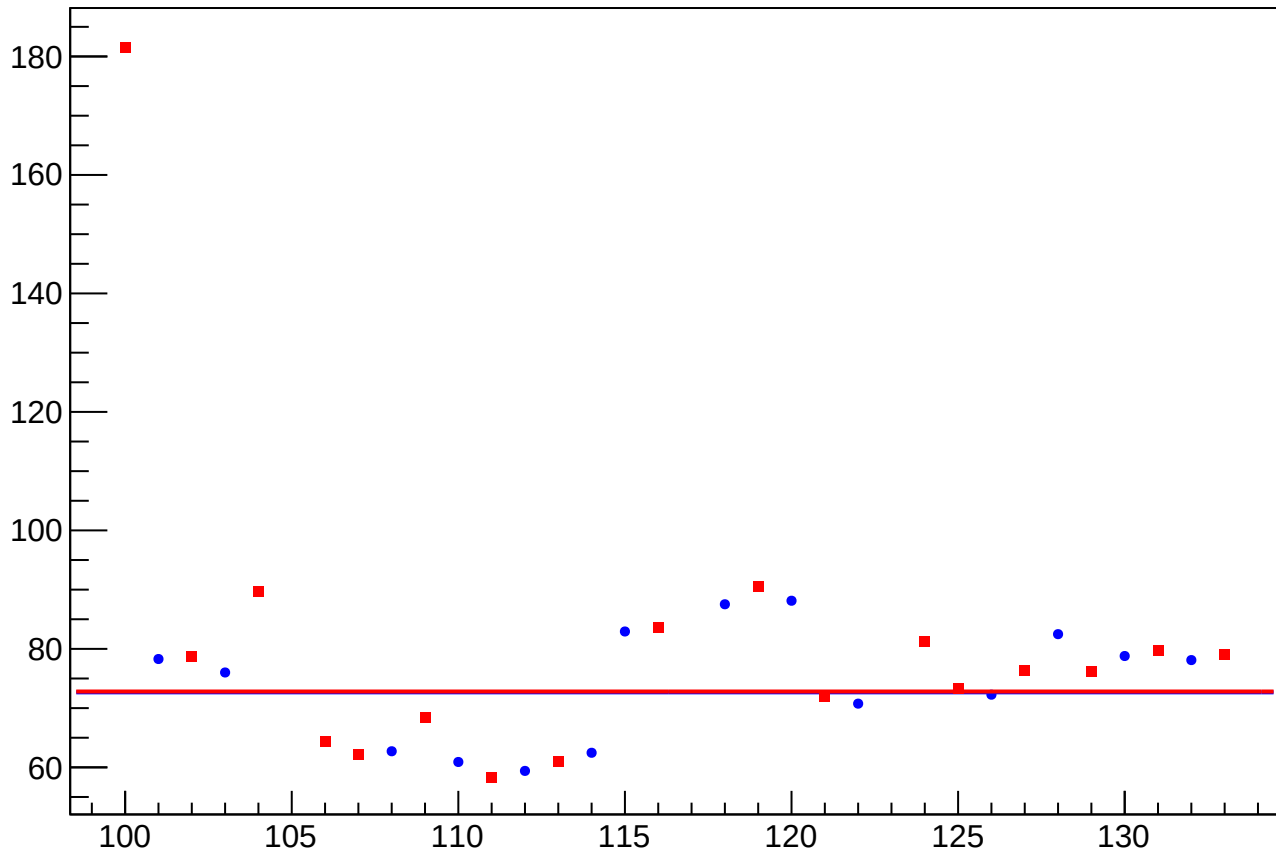
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 32.789 $\pm$ 20.651  $\chi^2$ /NDF: 26.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 72.661+/-0.021  $\chi^2/\text{NDF}$ : 195042.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 72.805+/-0.020  $\chi^2/\text{NDF}$ : 287310.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

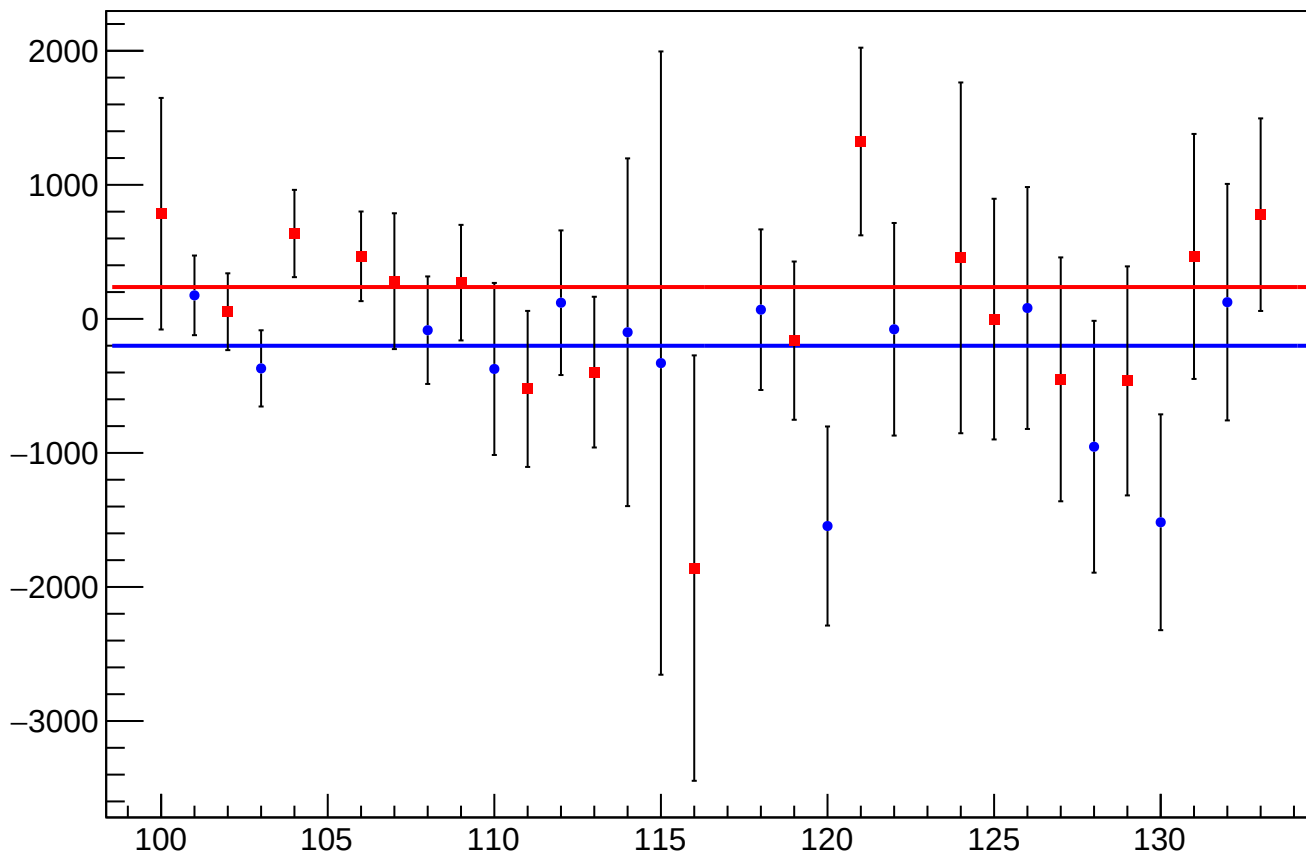
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 72.737+/-0.015  $\chi^2/\text{NDF}$ : 482377.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_37\_48\_dd\_dit\_correction\_mean vs Slug



Right In: -200.515+/-144.439  $\chi^2/\text{NDF}$ : 9.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 237.542+/-128.954  $\chi^2/\text{NDF}$ : 12.4/16

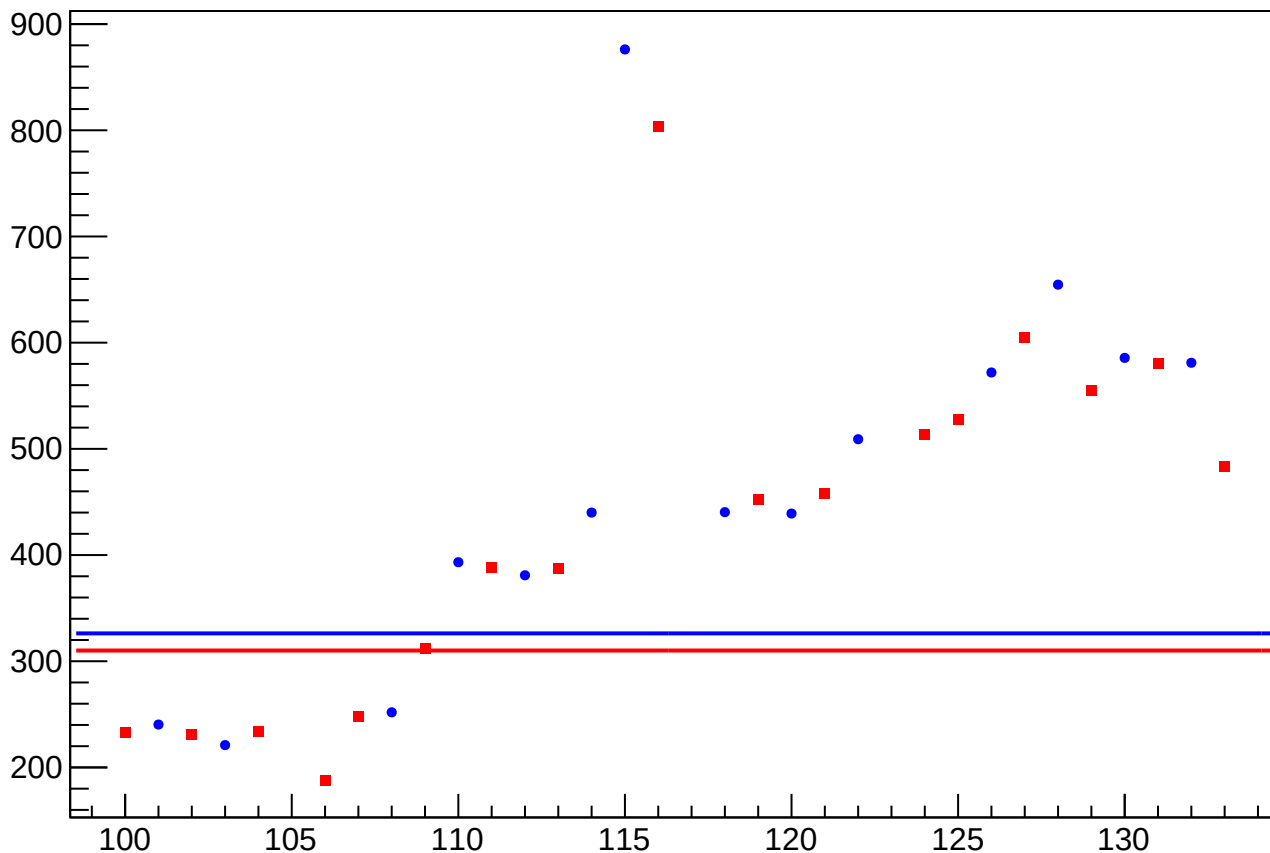
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.246+/-96.195  $\chi^2/\text{NDF}$ : 27.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_dit\_correction\_rms vs Slug



Right In: 326.223+/-0.102  $\chi^2/\text{NDF}$ : 1671449.5/13

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

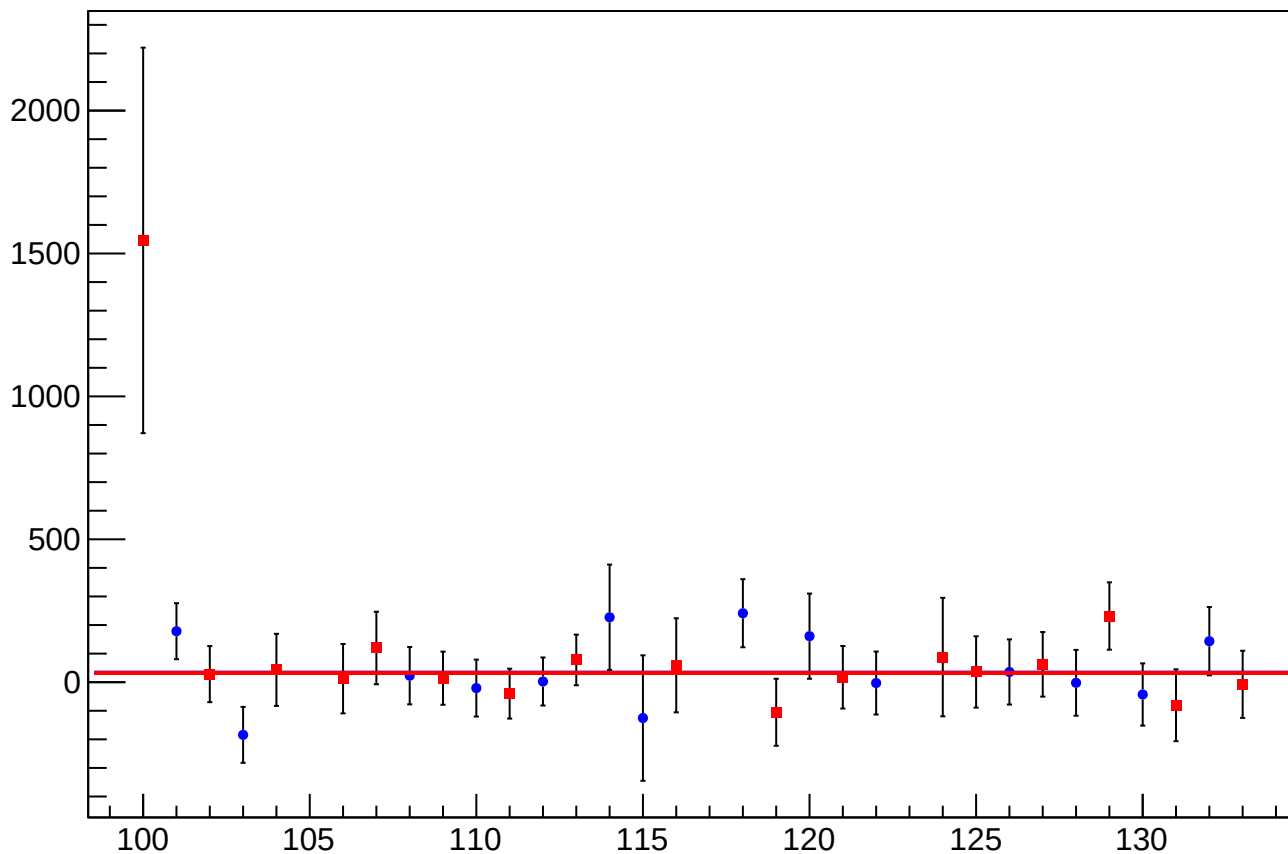
Right Out: 310.096+/-0.091  $\chi^2/\text{NDF}$ : 1882194.7/16

All: 317.249+/-0.068  $\chi^2/\text{NDF}$ : 3567518.5/30

- 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\_48\_dd\_mean vs Slug



Right In: 33.503+/-30.081  $\chi^2/\text{NDF}$ : 14.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 32.152+/-28.400  $\chi^2/\text{NDF}$ : 11.9/16

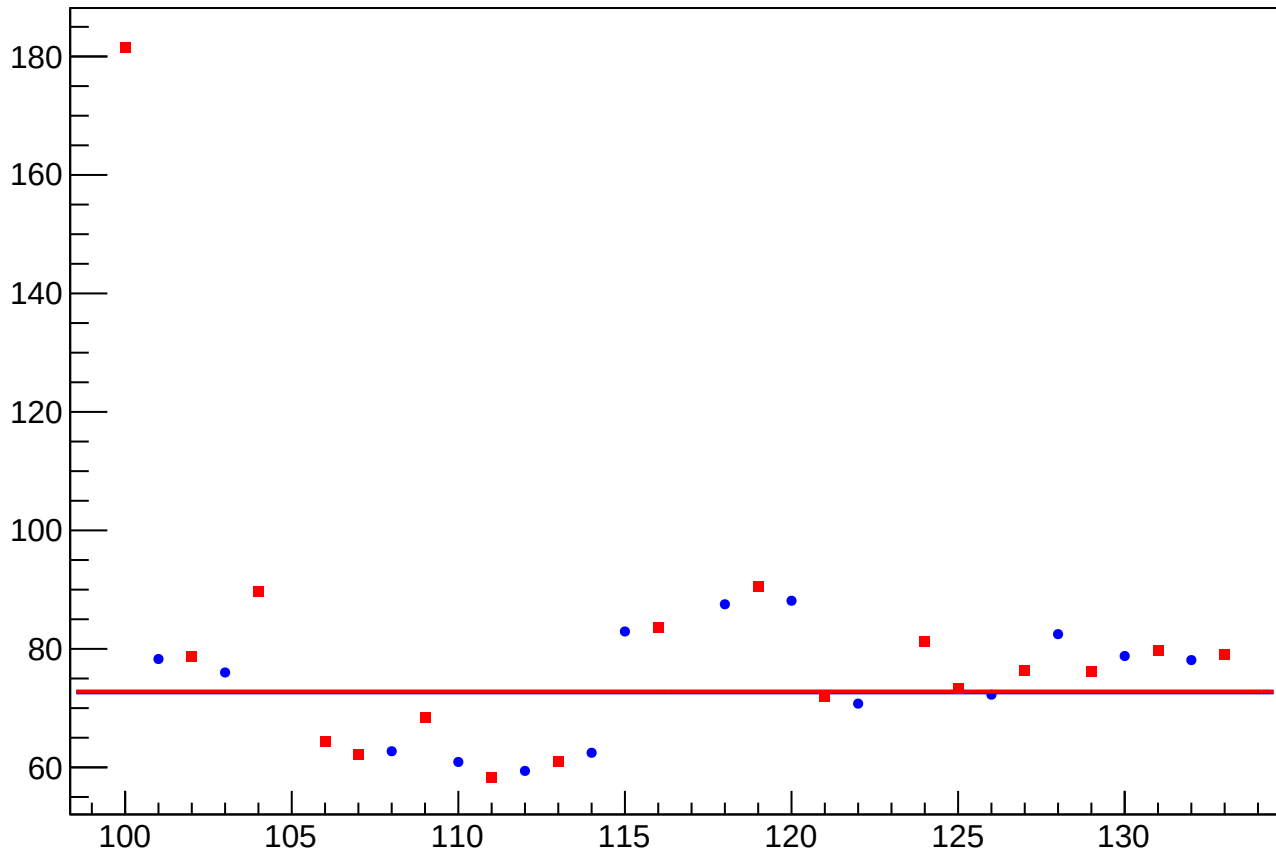
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.789+/-20.651  $\chi^2/\text{NDF}$ : 26.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 72.661 $\pm$ 0.021  $\chi^2$ /NDF: 195041.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 72.805 $\pm$ 0.020  $\chi^2$ /NDF: 287313.7/16

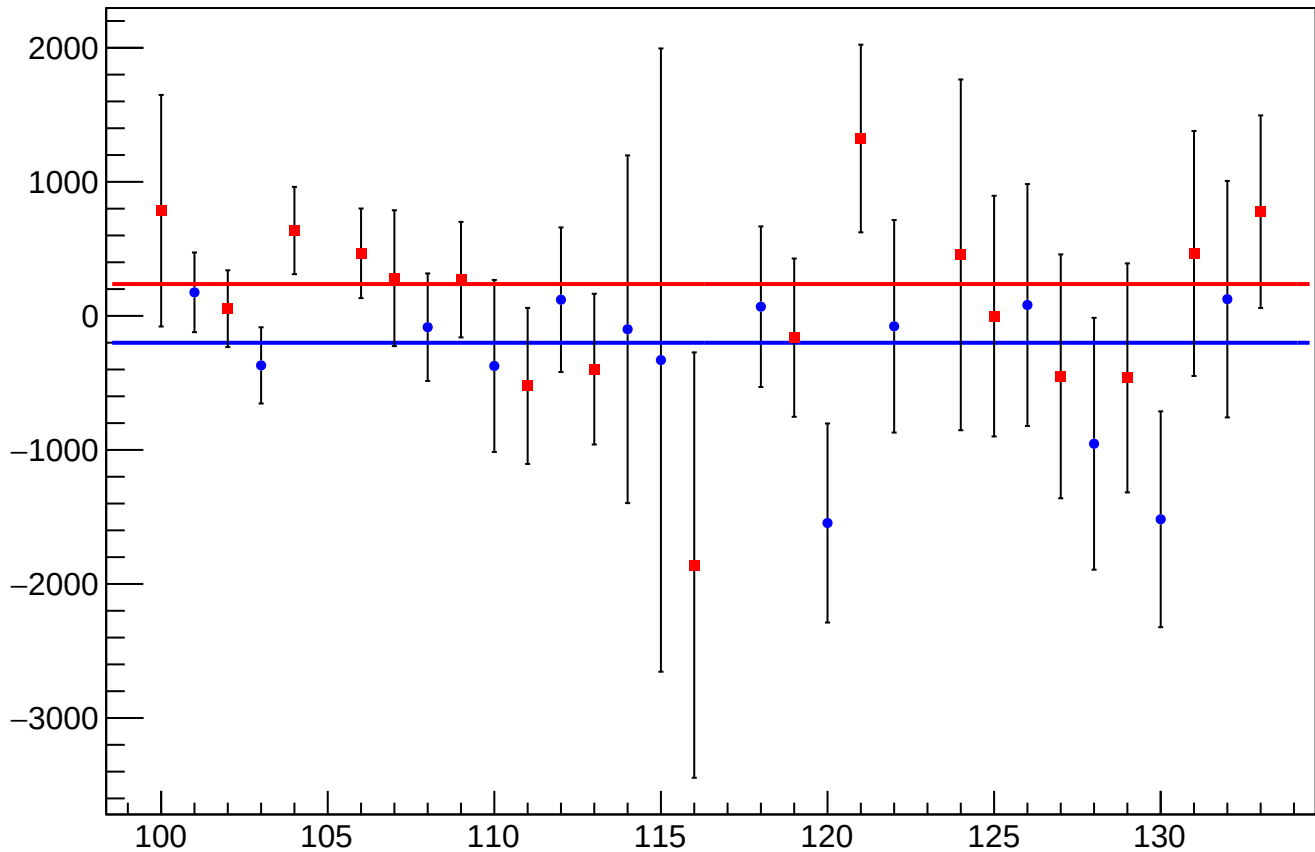
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 72.737 $\pm$ 0.015  $\chi^2$ /NDF: 482379.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: -200.515+/-144.439  $\chi^2/\text{NDF}$ : 9.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 237.542+/-128.954  $\chi^2/\text{NDF}$ : 12.4/16

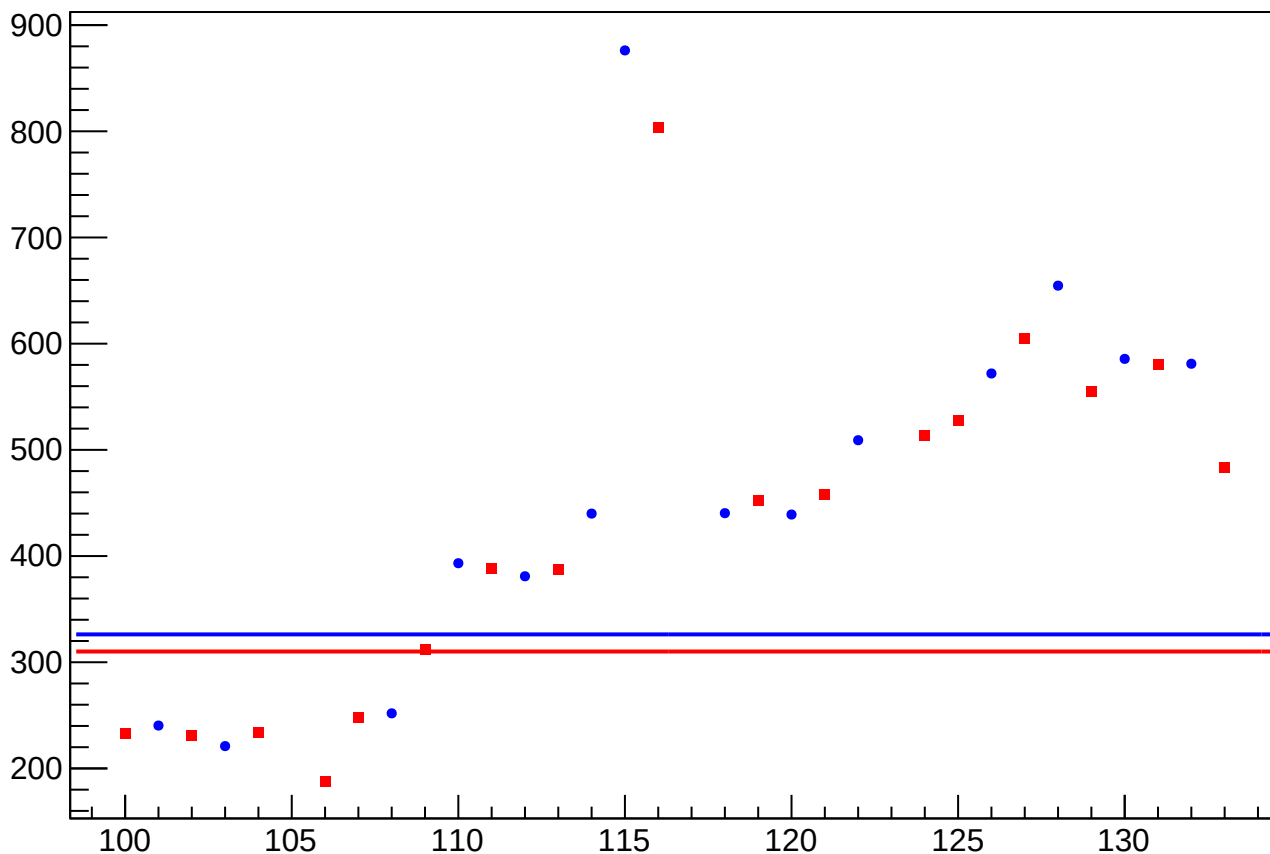
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.246+/-96.195  $\chi^2/\text{NDF}$ : 27.0/30

- 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: 326.223+/-0.102  $\chi^2/\text{NDF}$ : 1671449.1/13

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

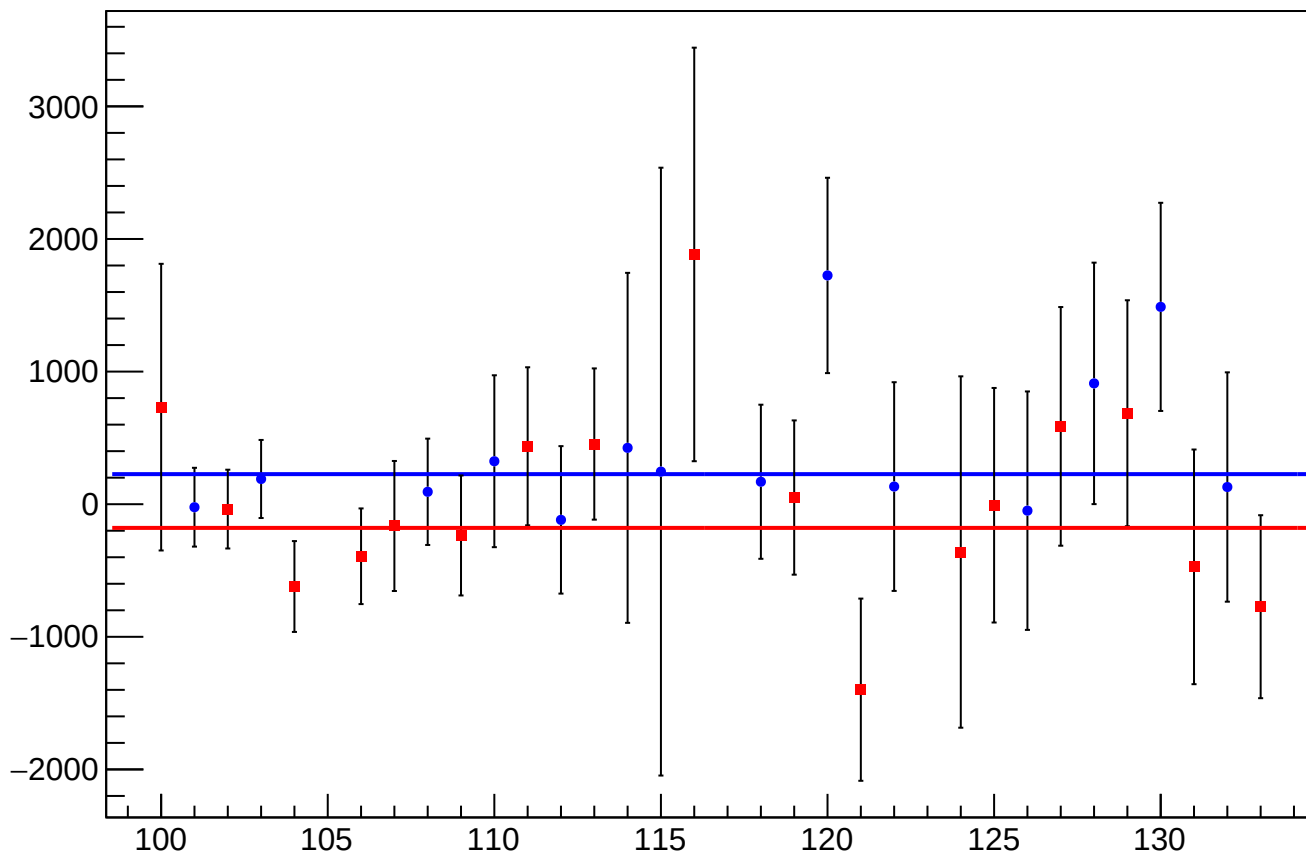
Right Out: 310.096+/-0.091  $\chi^2/\text{NDF}$ : 1882193.4/16

All: 317.249+/-0.068  $\chi^2/\text{NDF}$ : 3567517.2/30

- 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\_48\_dd\_mean vs Slug



Right In: 226.724 $\pm$ 145.405  $\chi^2$ /NDF: 8.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -178.673 $\pm$ 132.849  $\chi^2$ /NDF: 13.0/16

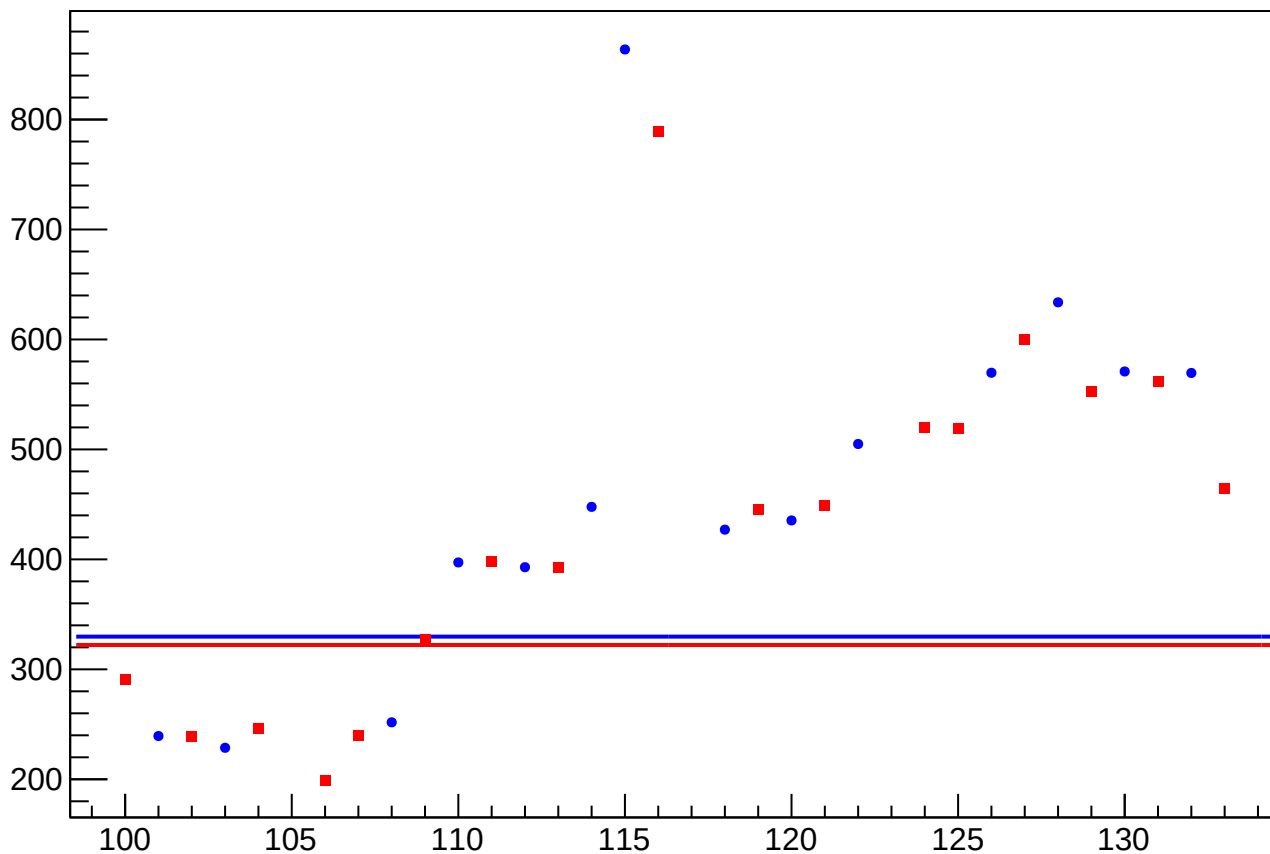
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.769 $\pm$ 98.077  $\chi^2$ /NDF: 25.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 329.740 $\pm$ 0.103  $\chi^2$ /NDF: 1573233.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 322.121 $\pm$ 0.094  $\chi^2$ /NDF: 1659705.4/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

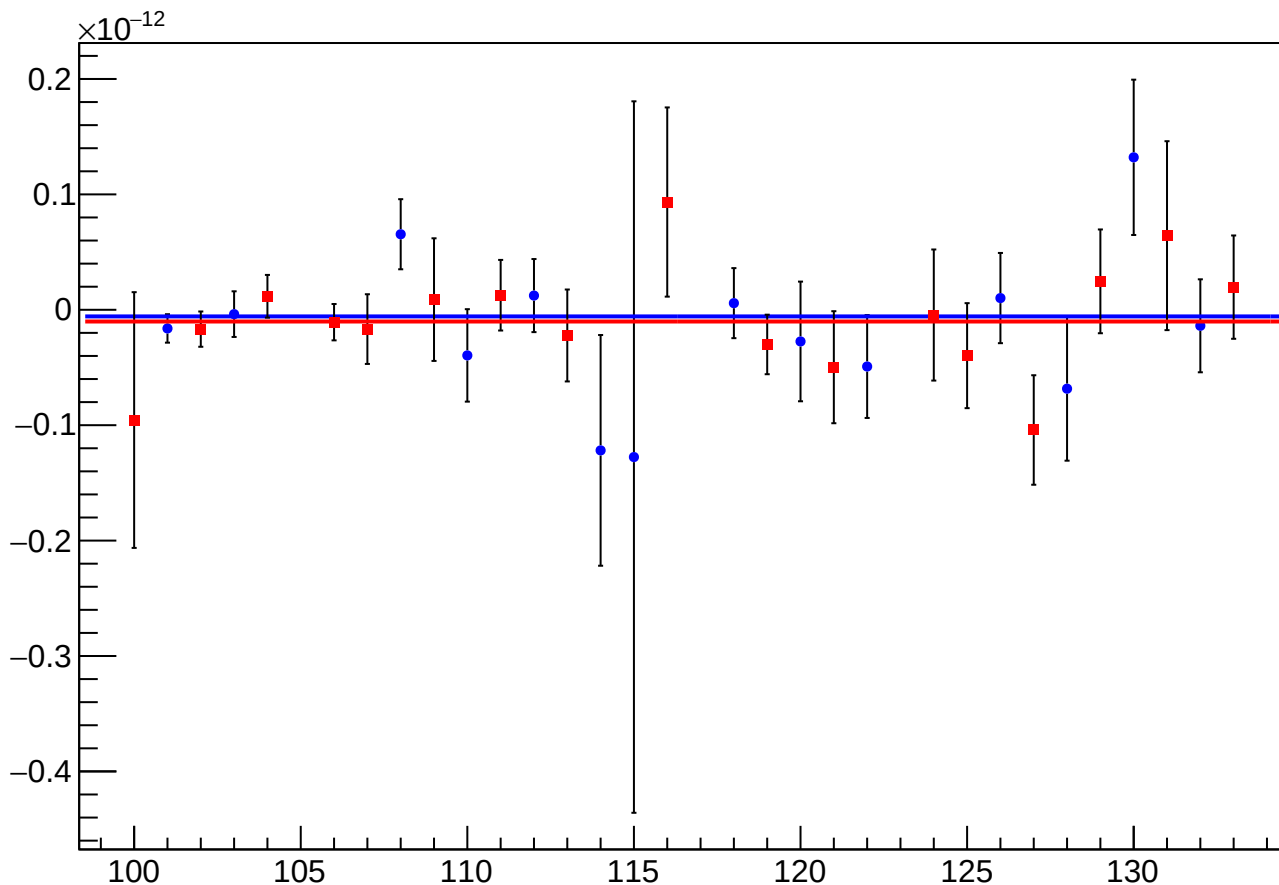
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 325.587 $\pm$ 0.069  $\chi^2$ /NDF: 3235931.8/30

- 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: 15.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.000+/-0.000  $\chi^2$ /NDF: 12.1/16

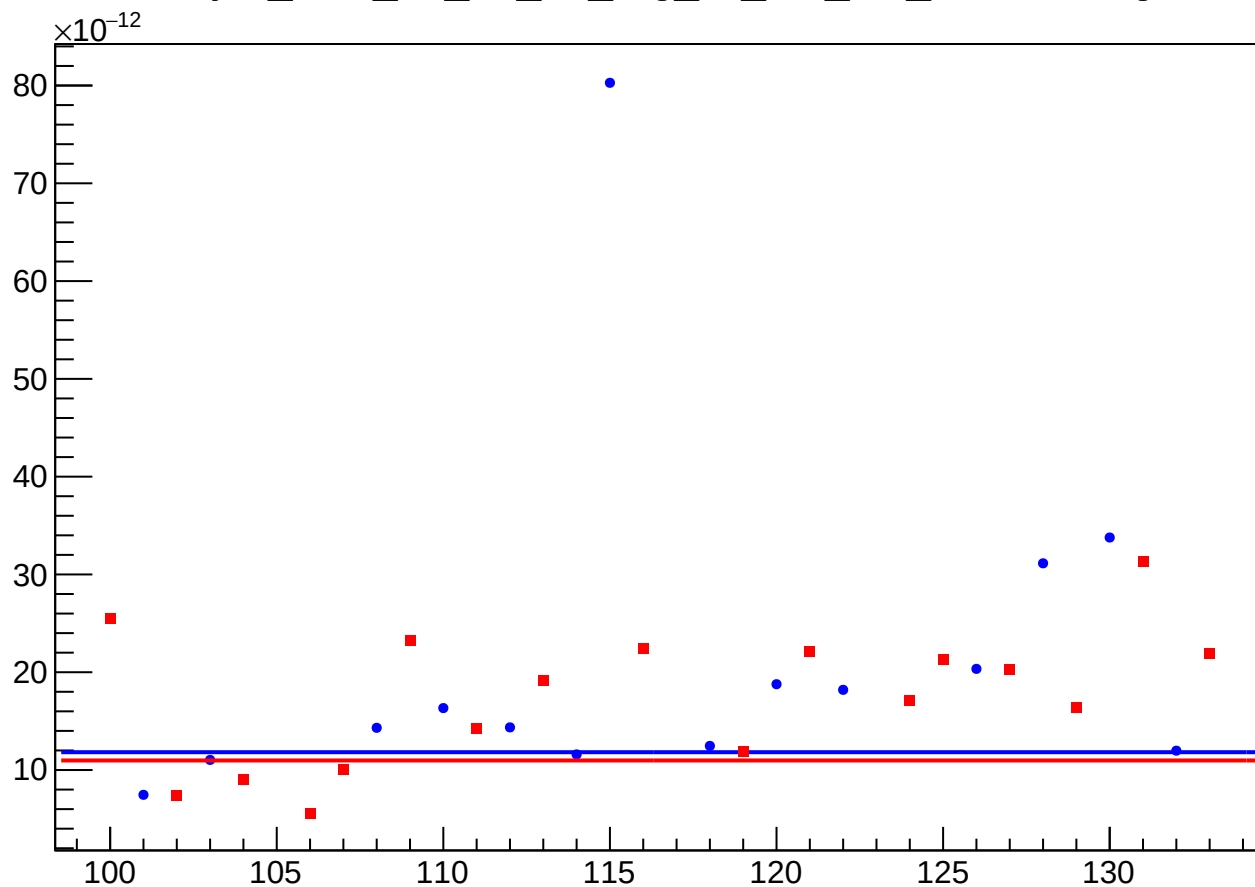
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 27.7/30

- 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  $\chi^2/\text{NDF}$ : 981516.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1244878.4/16

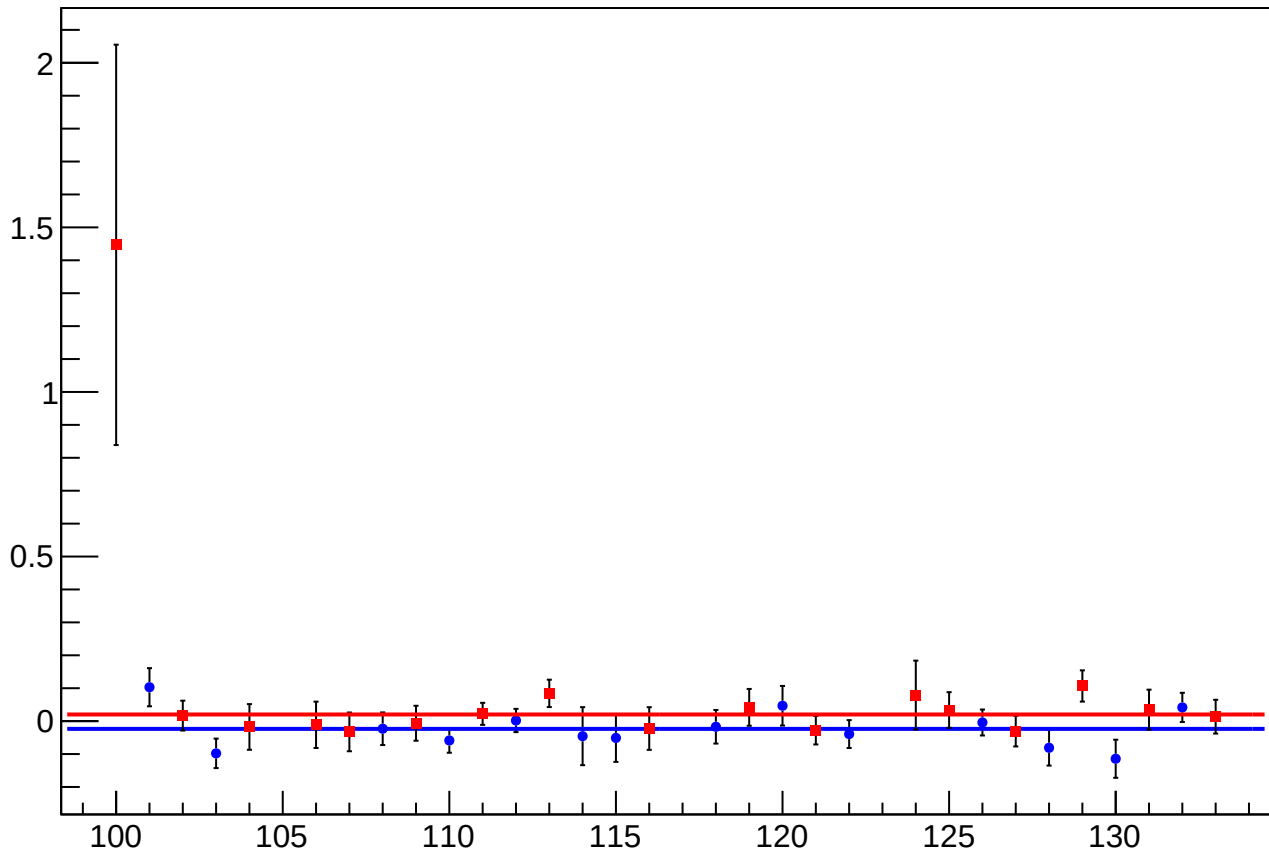
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2238646.9/30

- 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:  $-0.024 \pm 0.013$   $\chi^2/\text{NDF}$ : 16.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.020 \pm 0.013$   $\chi^2/\text{NDF}$ : 16.2/16

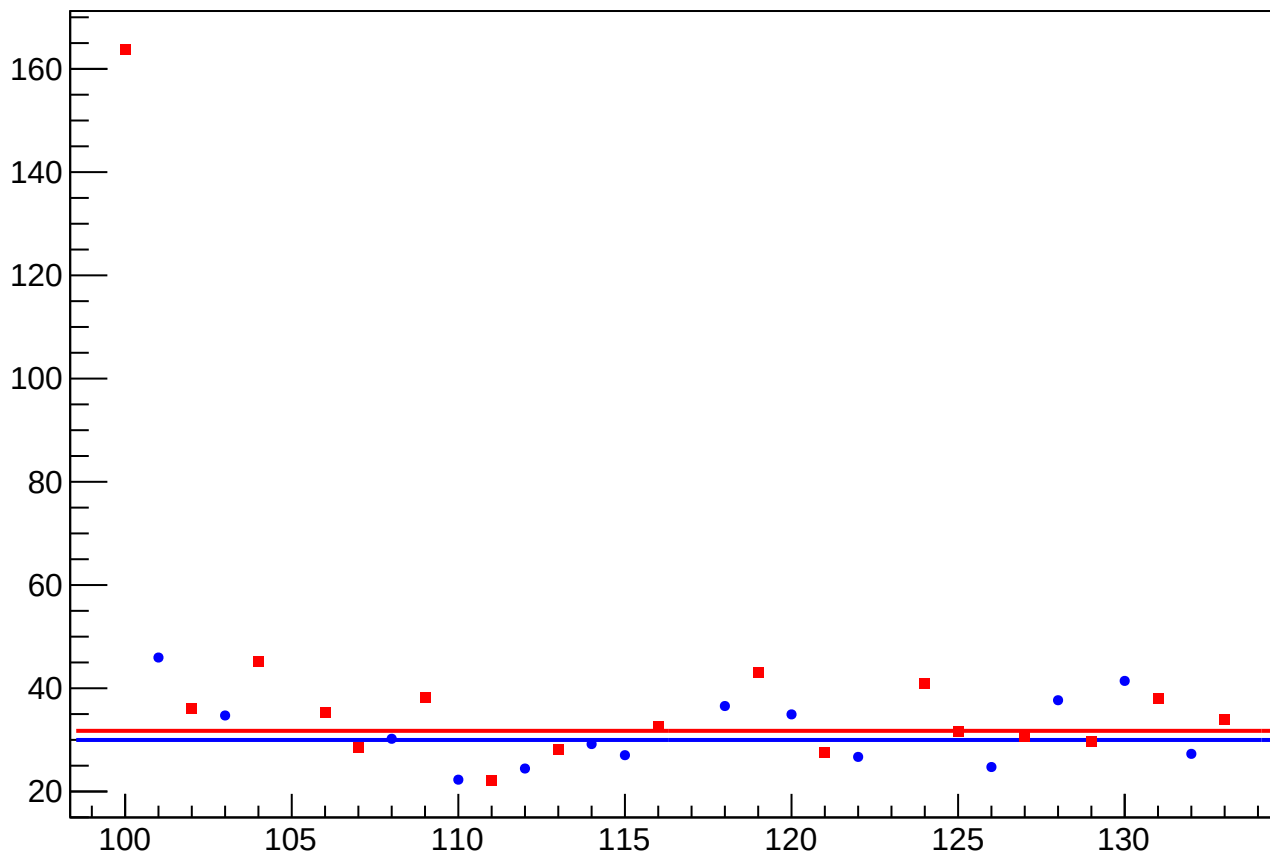
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.002 \pm 0.009$   $\chi^2/\text{NDF}$ : 38.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 29.983+/-0.009  $\chi^2/\text{NDF}$ : 531990.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31.752+/-0.009  $\chi^2/\text{NDF}$ : 555139.1/16

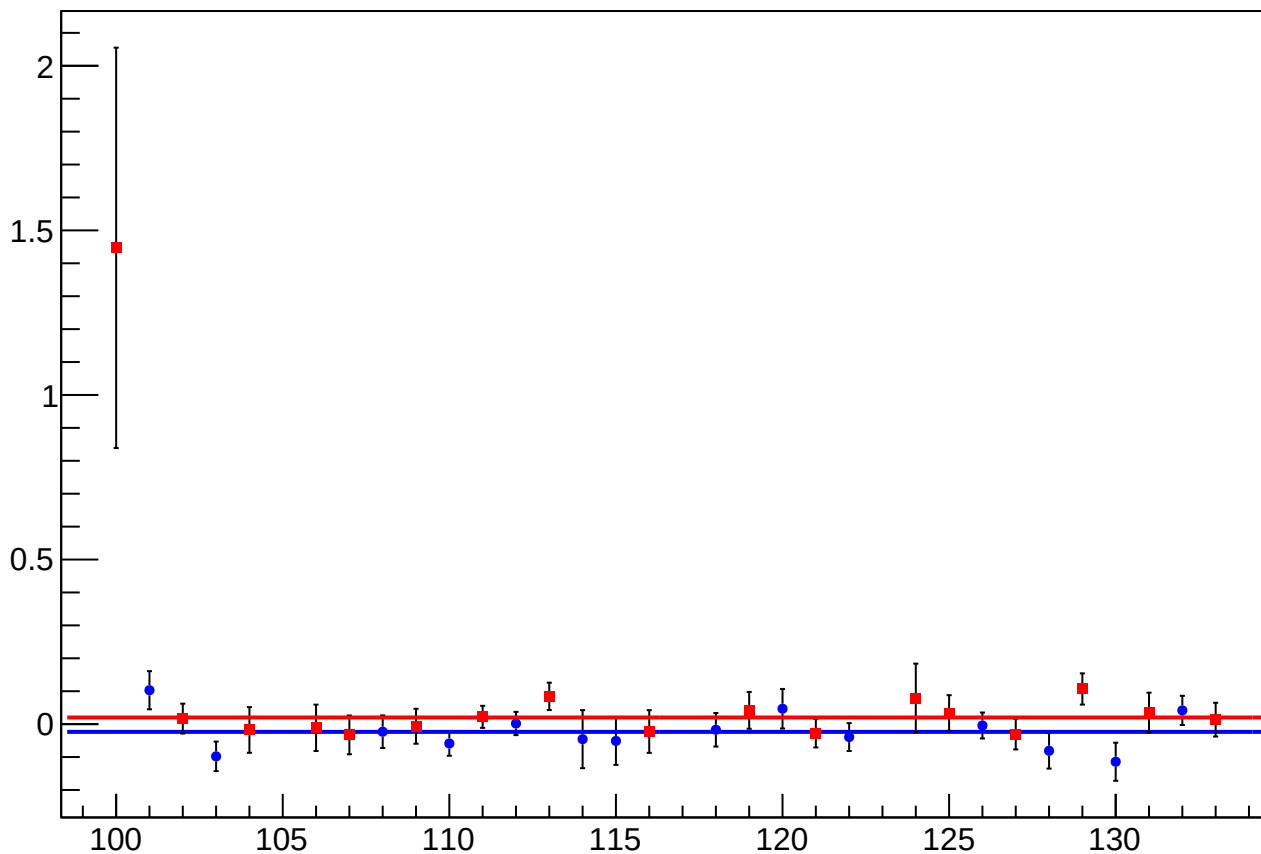
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.871+/-0.006  $\chi^2/\text{NDF}$ : 1106115.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.024 $\pm$ 0.013  $\chi^2$ /NDF: 16.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.020 $\pm$ 0.013  $\chi^2$ /NDF: 16.2/16

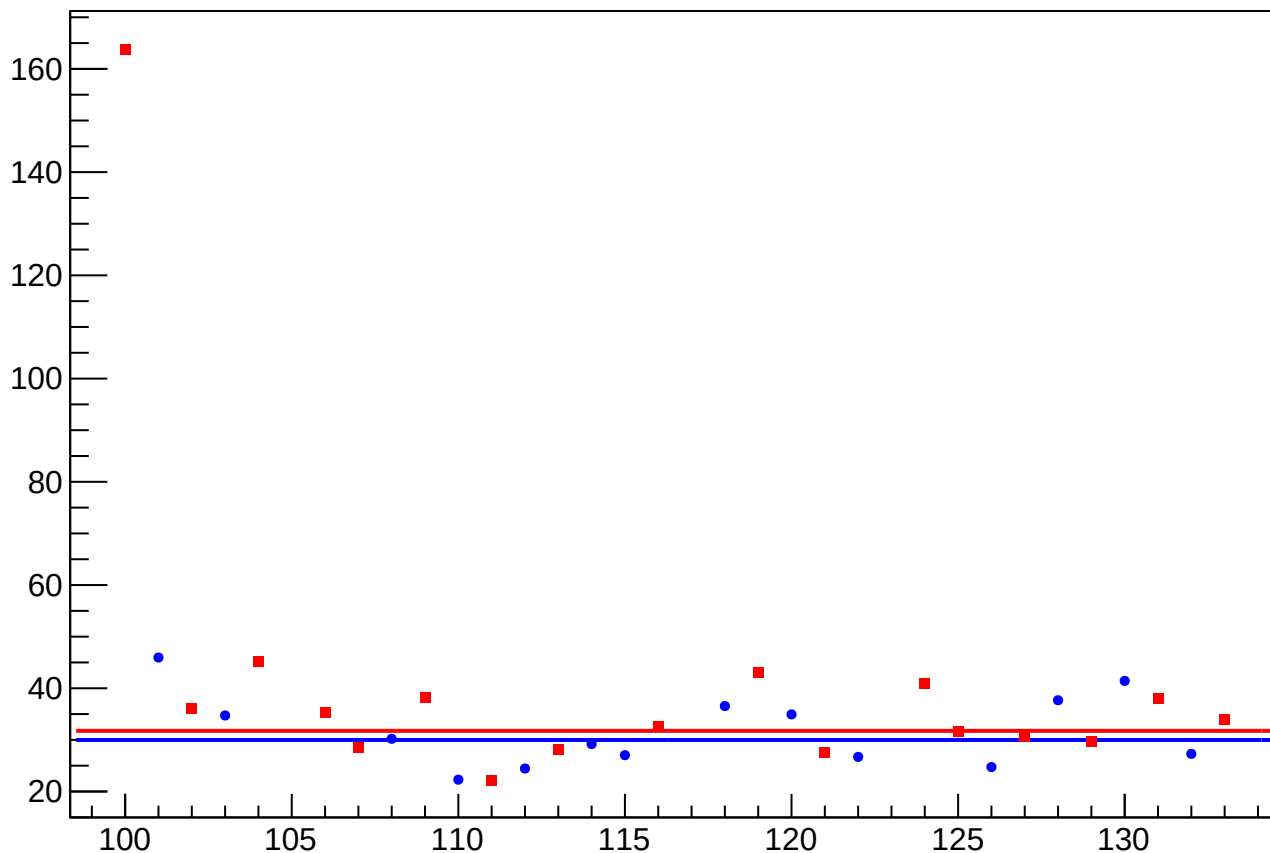
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.002 $\pm$ 0.009  $\chi^2$ /NDF: 38.7/30

- 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: 29.983+/-0.009  $\chi^2$ /NDF: 531990.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 31.752+/-0.009  $\chi^2$ /NDF: 555139.1/16

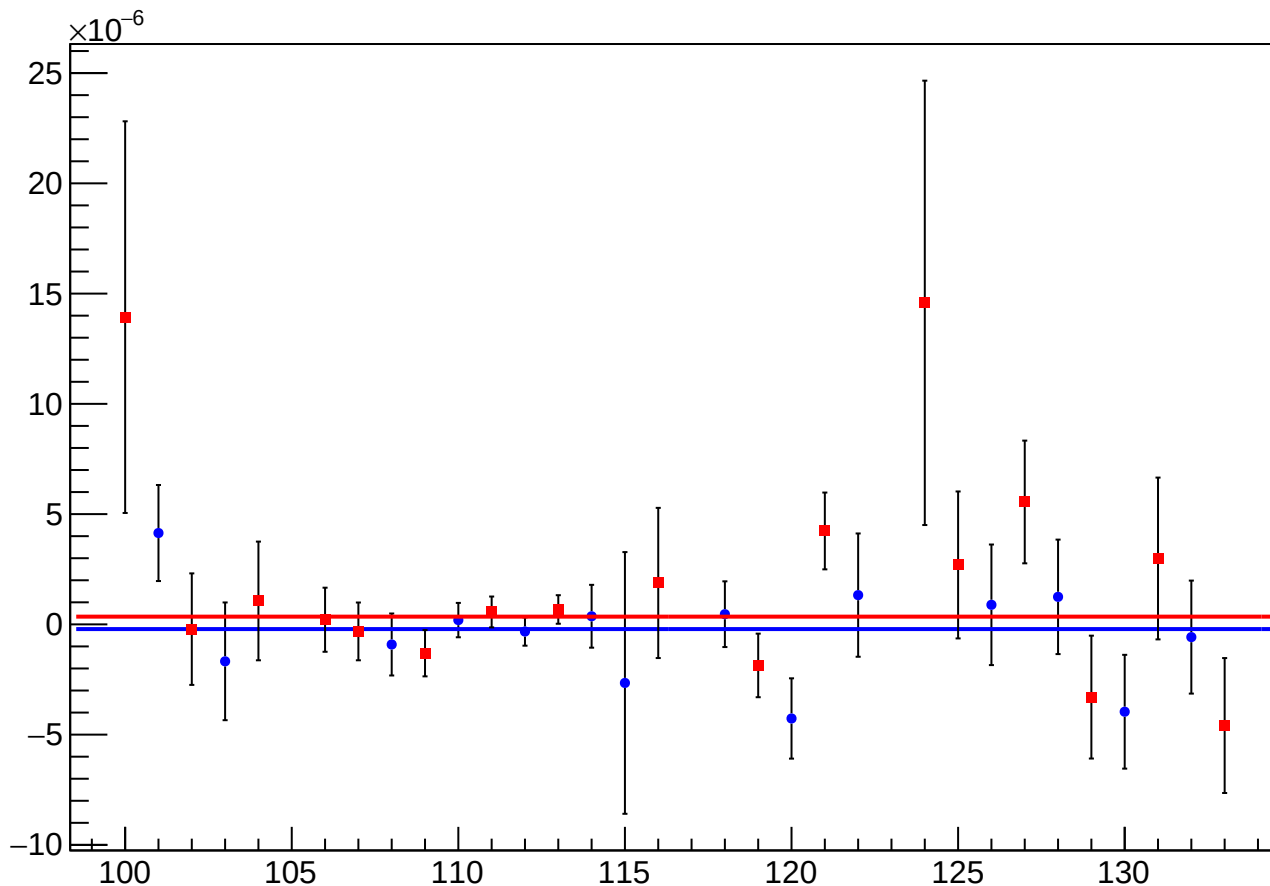
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 30.871+/-0.006  $\chi^2$ /NDF: 1106115.2/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 13.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 23.9/16

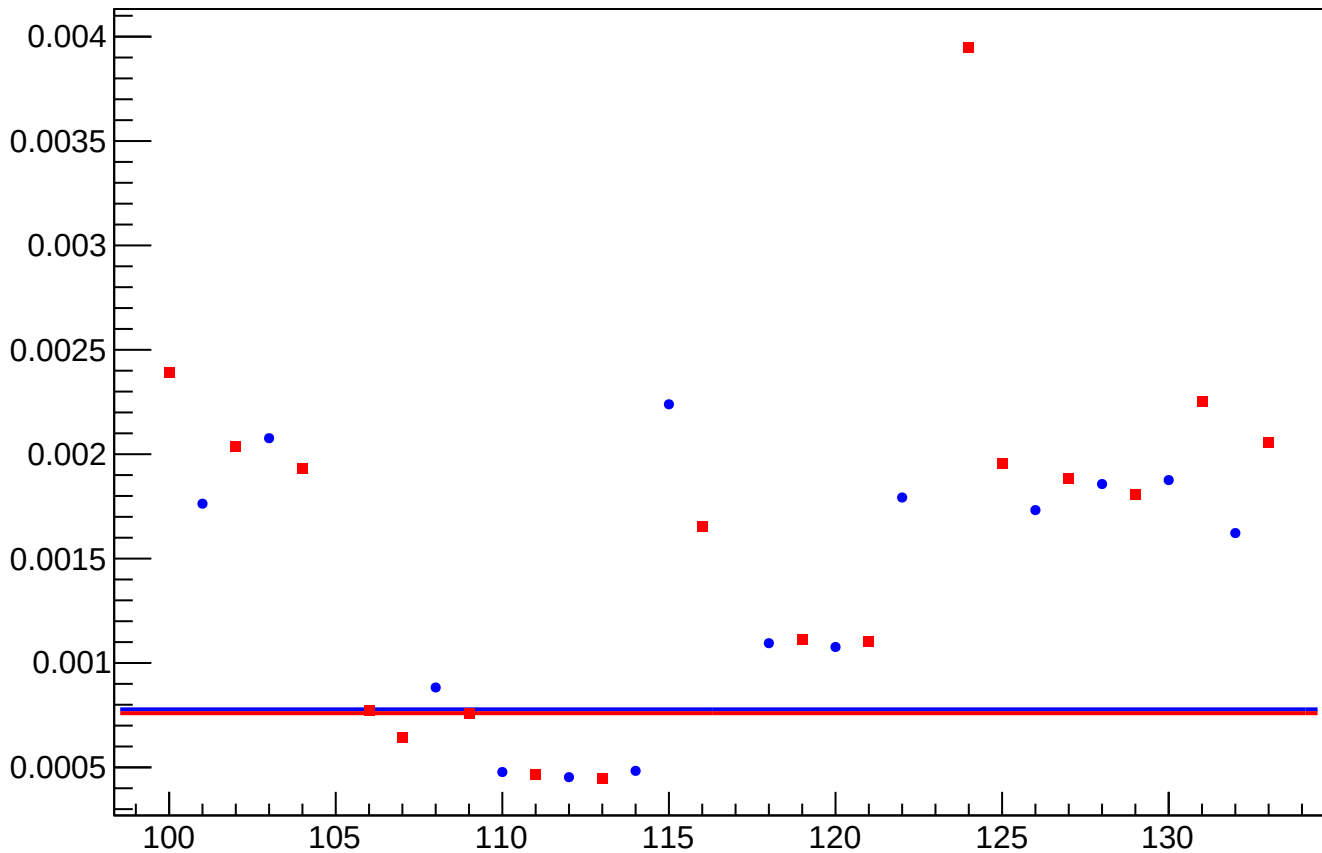
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 38.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3486946.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3887376.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

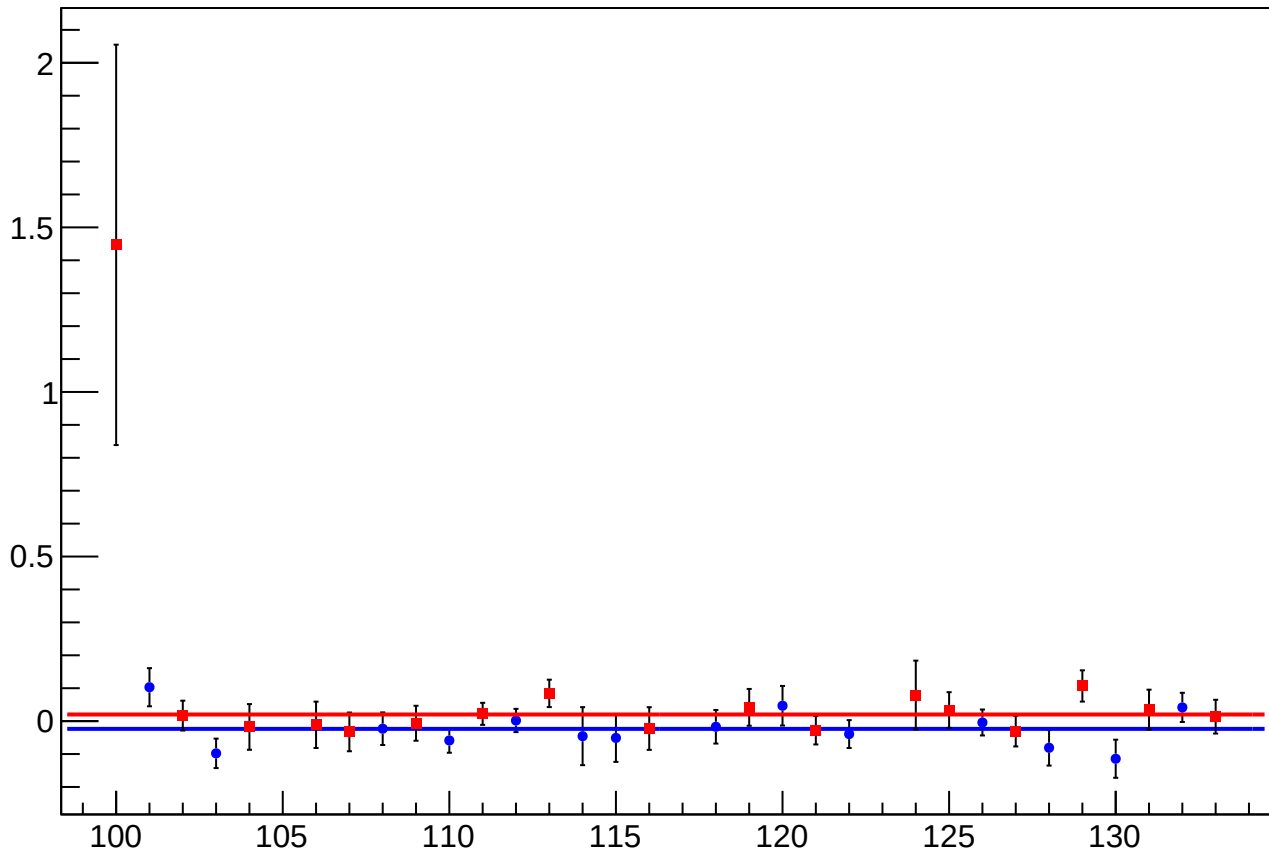
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 7376836.5/30

- 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:  $-0.024 \pm 0.013$   $\chi^2/\text{NDF}: 16.7/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.020 \pm 0.013$   $\chi^2/\text{NDF}: 16.2/16$

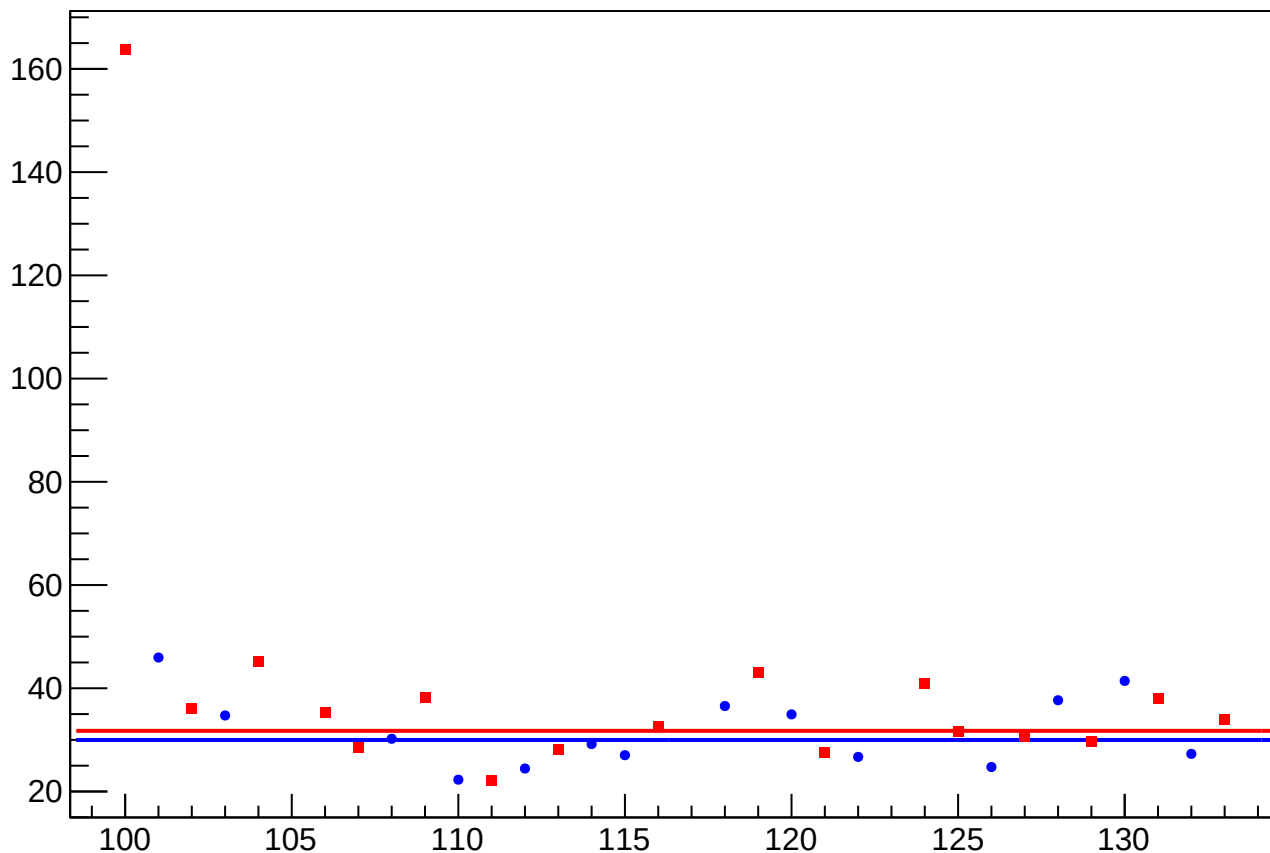
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.002 \pm 0.009$   $\chi^2/\text{NDF}: 38.7/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 29.984 $\pm$ 0.009  $\chi^2$ /NDF: 531978.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 31.752 $\pm$ 0.009  $\chi^2$ /NDF: 555135.6/16

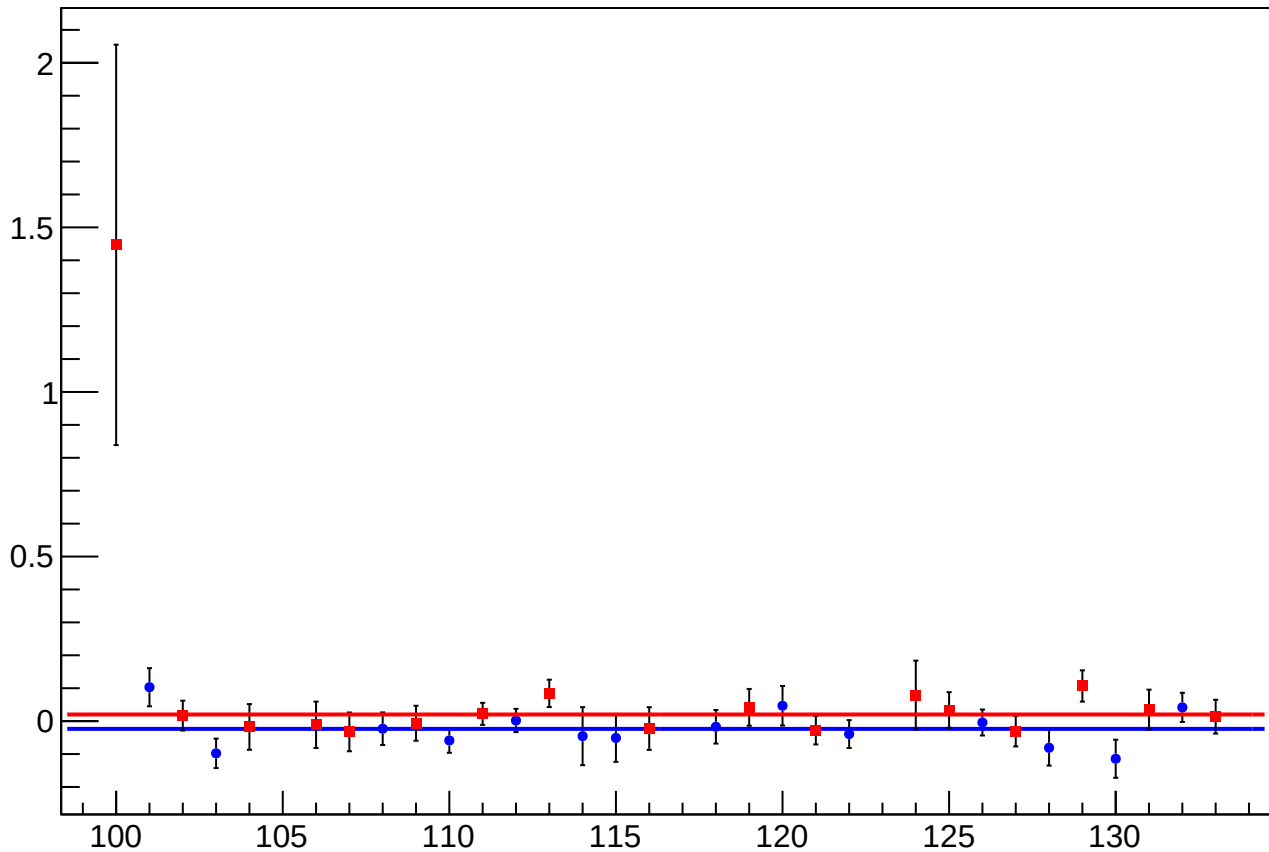
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 30.871 $\pm$ 0.006  $\chi^2$ /NDF: 1106102.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.024+/-0.013  $\chi^2$ /NDF: 16.7/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.020+/-0.013  $\chi^2$ /NDF: 16.2/16

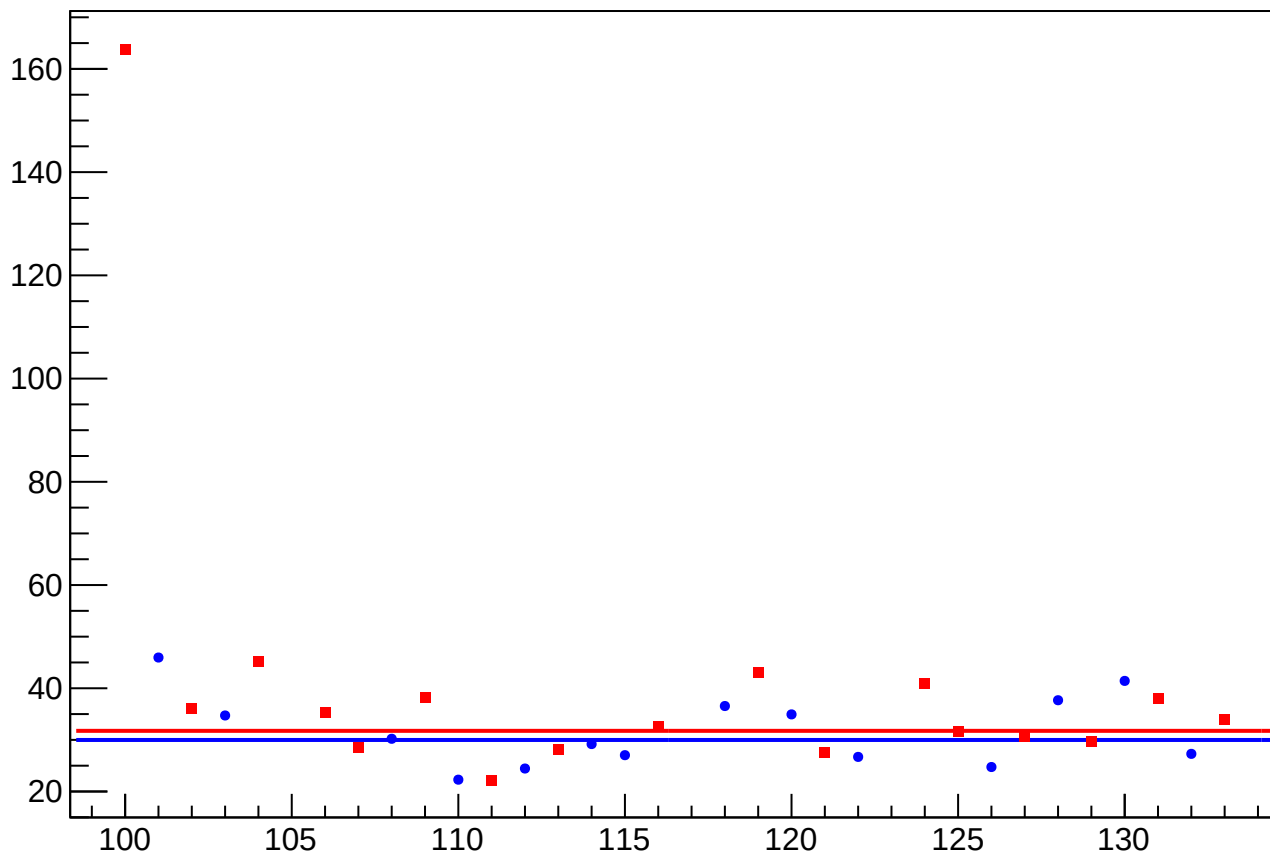
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.002+/-0.009  $\chi^2$ /NDF: 38.7/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 29.984 $\pm$ 0.009  $\chi^2$ /NDF: 531978.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 31.752 $\pm$ 0.009  $\chi^2$ /NDF: 555135.6/16

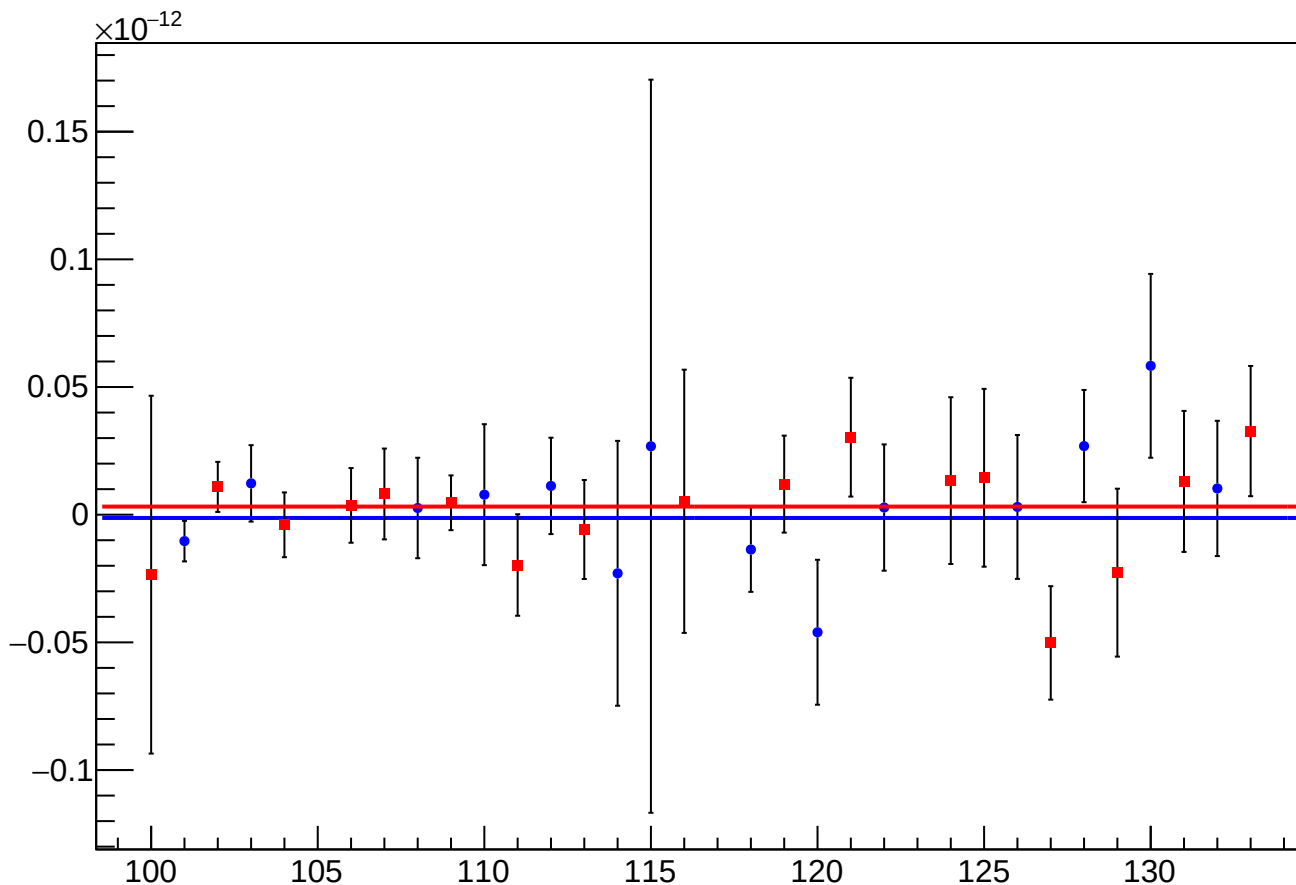
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 30.871 $\pm$ 0.006  $\chi^2$ /NDF: 1106102.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 10.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 12.4/16

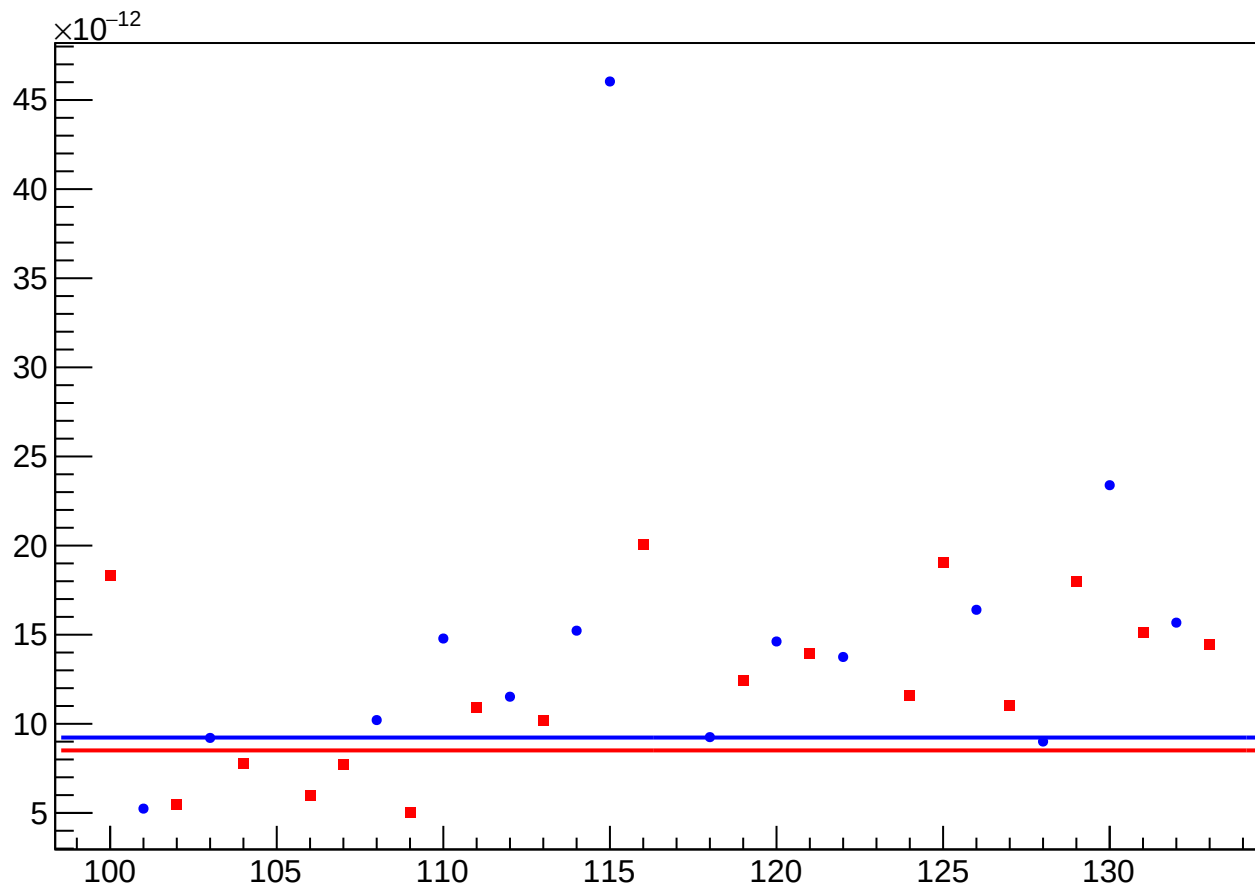
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 23.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1472976.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1469370.6/16

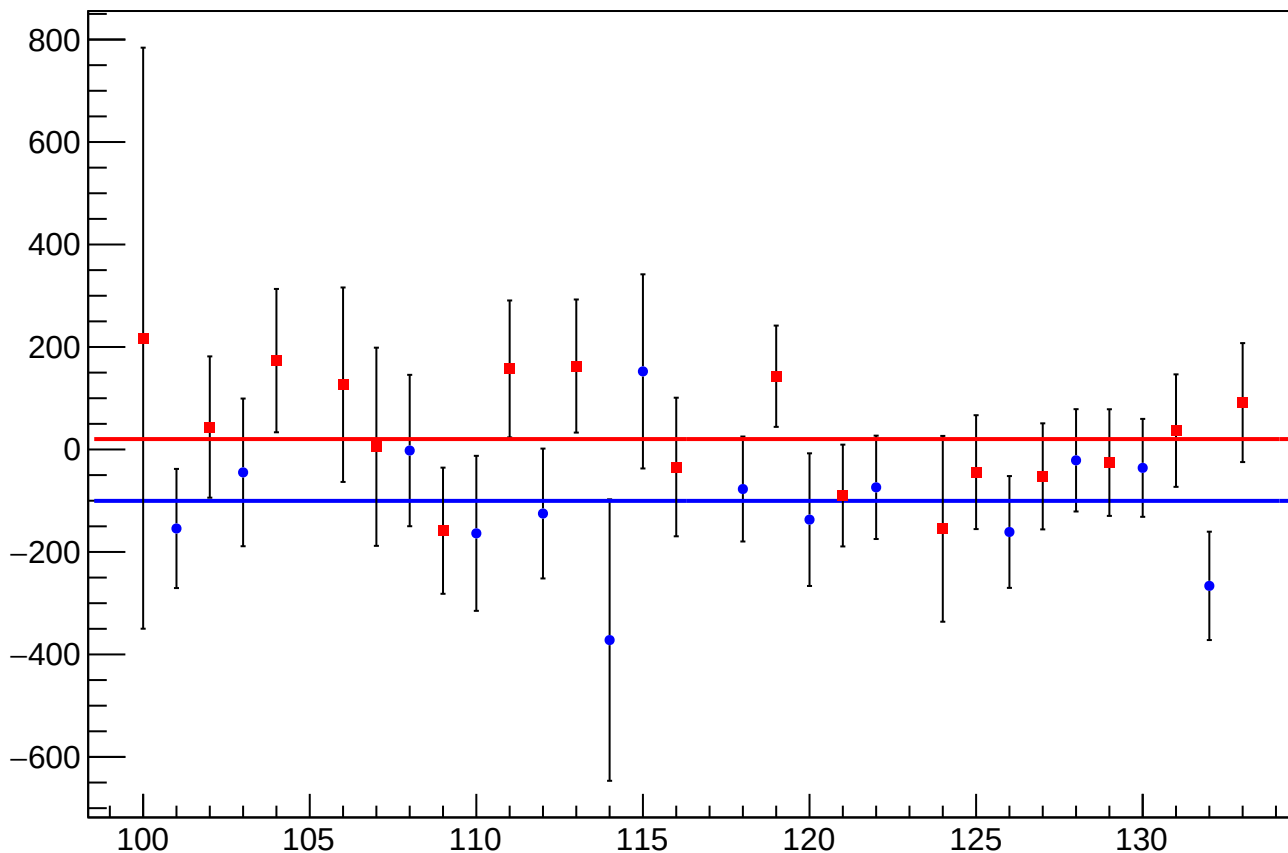
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2965580.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: -100.311 $\pm$ 32.416  $\chi^2$ /NDF: 7.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 20.309 $\pm$ 30.782  $\chi^2$ /NDF: 11.3/16

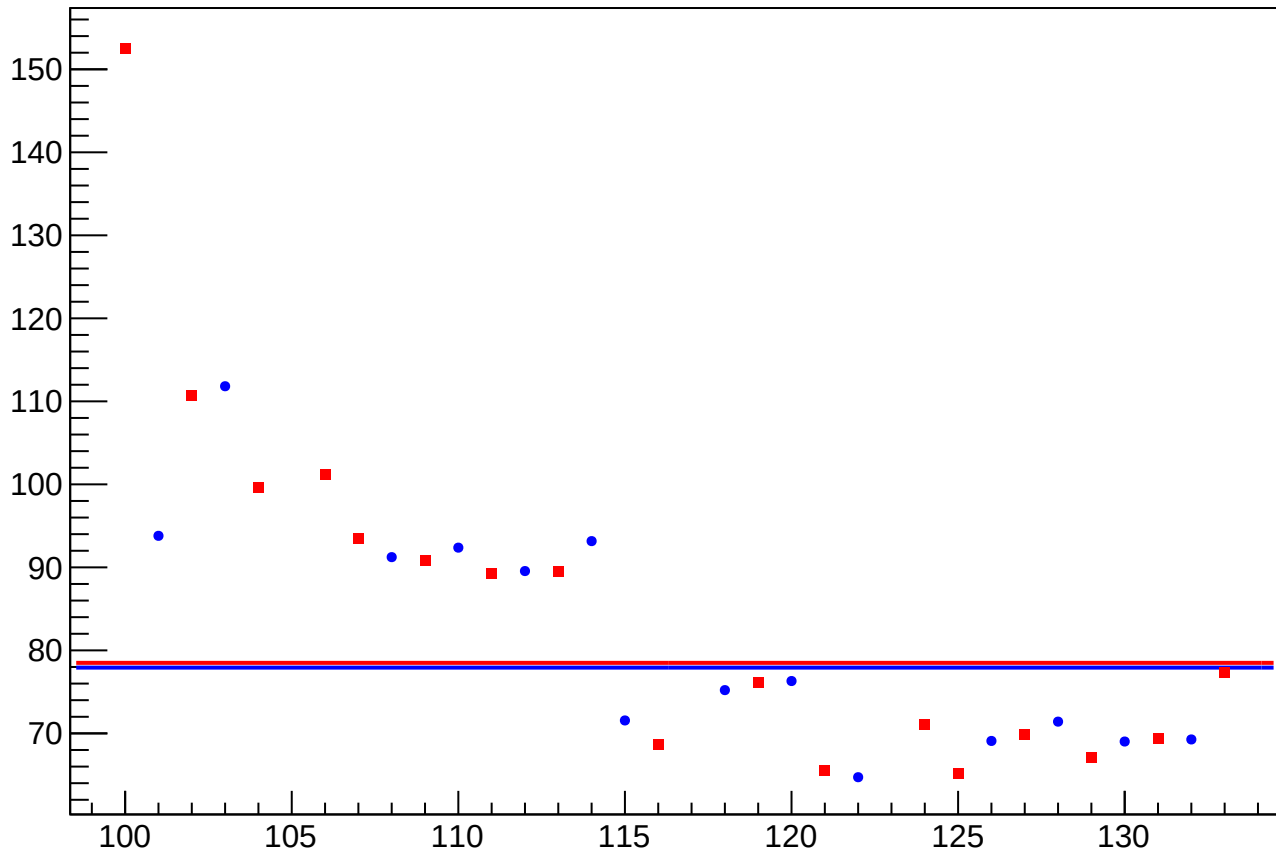
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -36.885 $\pm$ 22.322  $\chi^2$ /NDF: 26.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 77.924+/-0.023  $\chi^2/\text{NDF}$ : 296069.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 78.497+/-0.022  $\chi^2/\text{NDF}$ : 406742.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

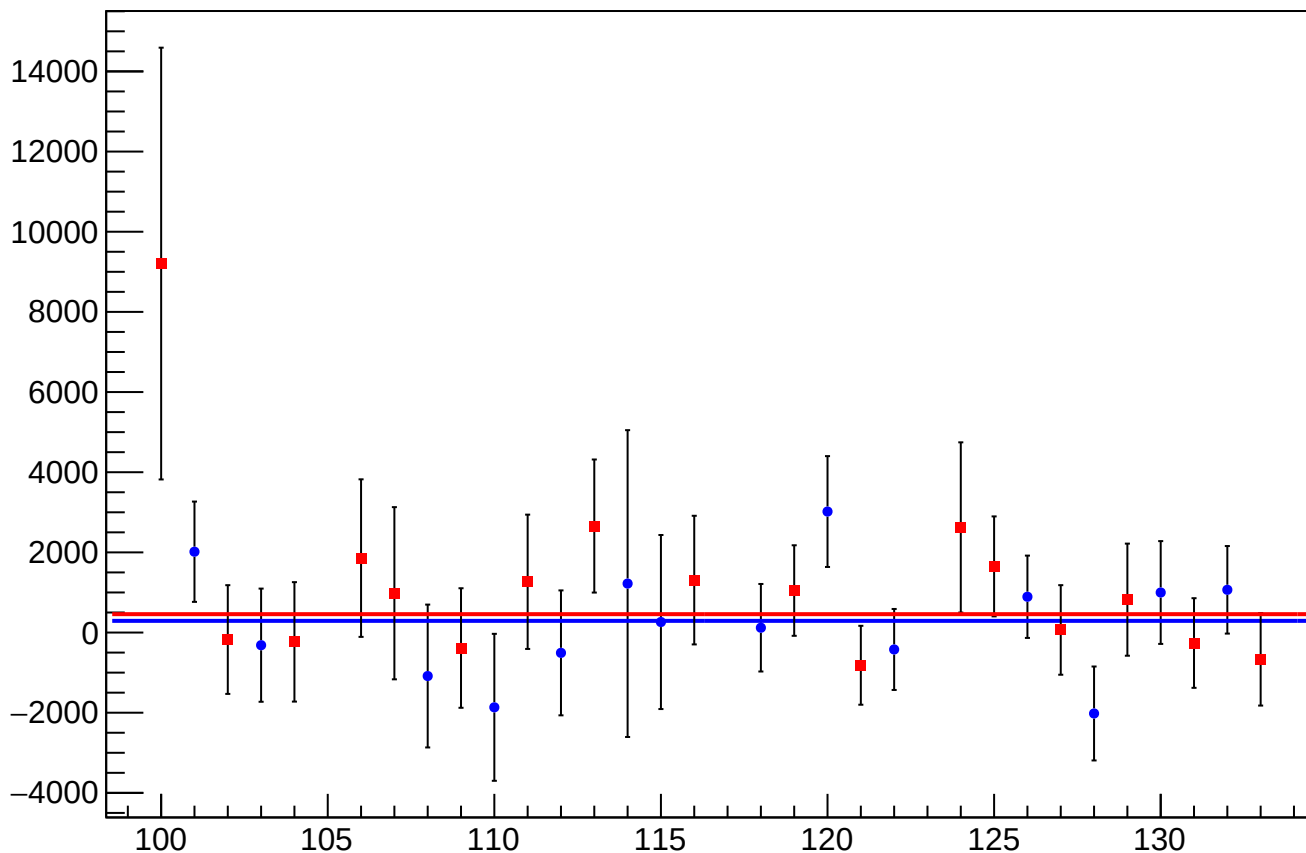
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 78.225+/-0.016  $\chi^2/\text{NDF}$ : 703139.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_26\_dd\_reg\_correction\_mean vs Slug



Right In: 291.575 $\pm$ 355.583  $\chi^2$ /NDF: 13.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 458.562 $\pm$ 340.923  $\chi^2$ /NDF: 11.7/16

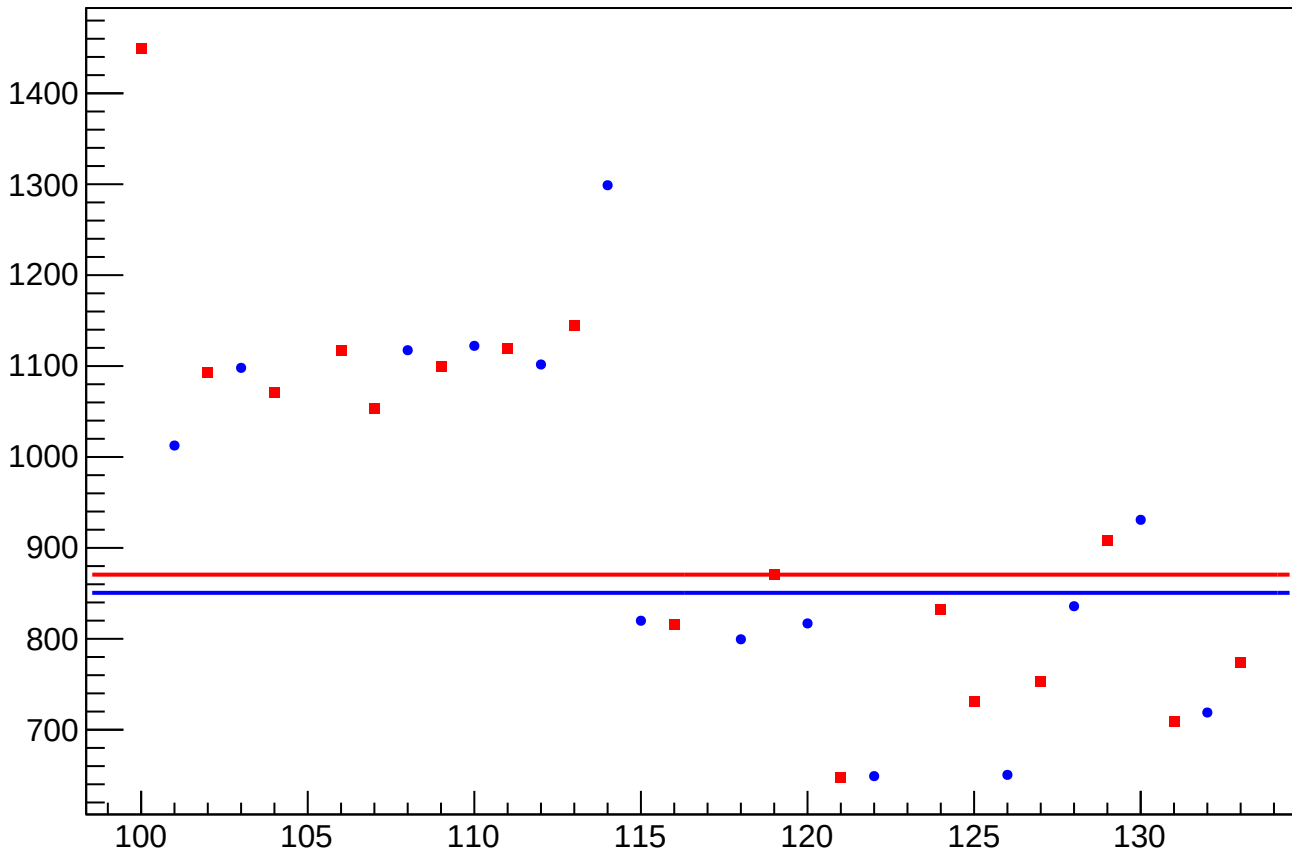
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 378.582 $\pm$ 246.088  $\chi^2$ /NDF: 25.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_reg\_correction\_rms vs Slug



Right In: 850.580+/-0.251  $\chi^2/\text{NDF}$ : 461934.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 870.591+/-0.241  $\chi^2/\text{NDF}$ : 514008.2/16

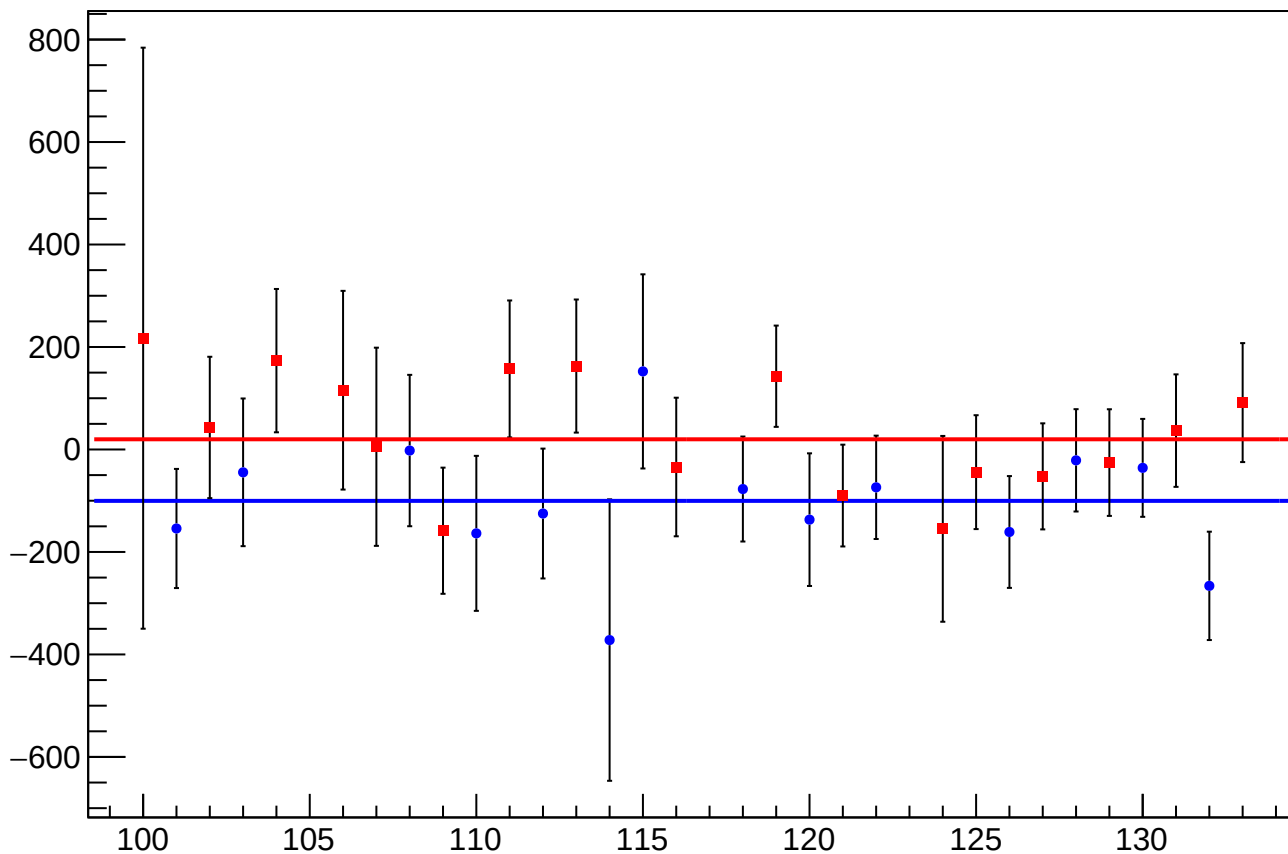
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 861.006+/-0.174  $\chi^2/\text{NDF}$ : 979243.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: -100.302 $\pm$ 32.416  $\chi^2$ /NDF: 7.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.876 $\pm$ 30.800  $\chi^2$ /NDF: 11.3/16

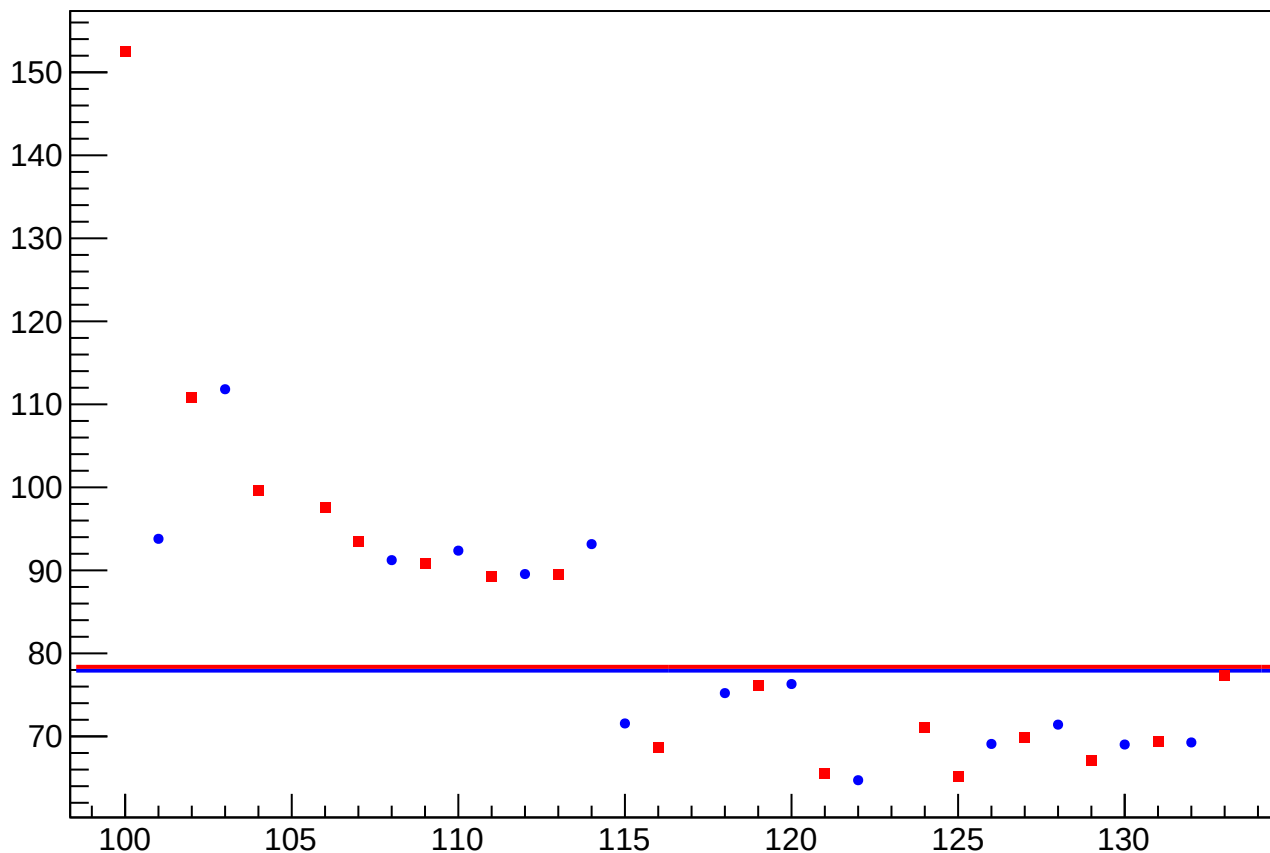
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -37.143 $\pm$ 22.328  $\chi^2$ /NDF: 26.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 77.924+/-0.023  $\chi^2/\text{NDF}$ : 296071.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 78.379+/-0.022  $\chi^2/\text{NDF}$ : 397585.3/16

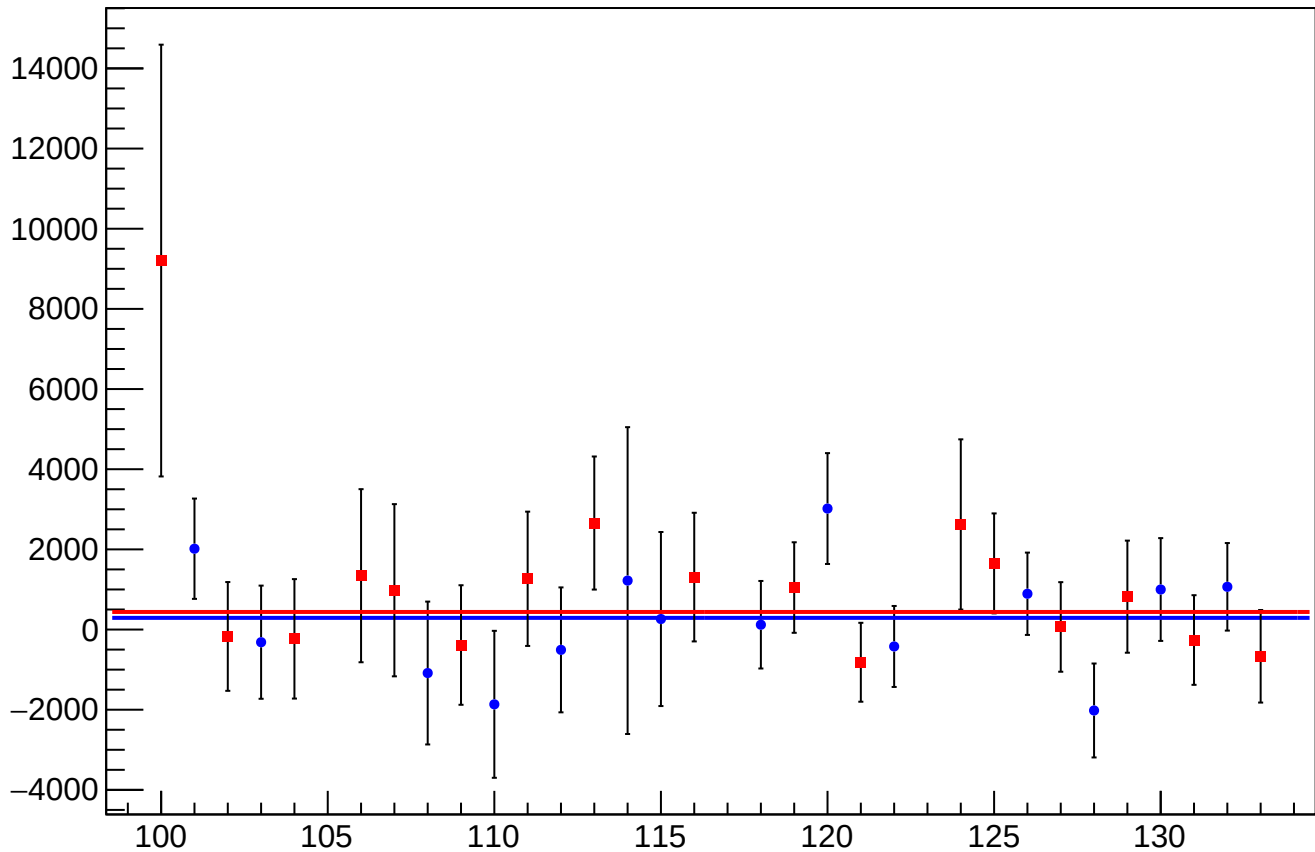
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 78.163+/-0.016  $\chi^2/\text{NDF}$ : 693864.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_26\_dd\_cor\_correction\_mean vs Slug



Right In: 291.546 $\pm$ 355.584  $\chi^2$ /NDF: 13.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 438.663 $\pm$ 341.819  $\chi^2$ /NDF: 11.3/16

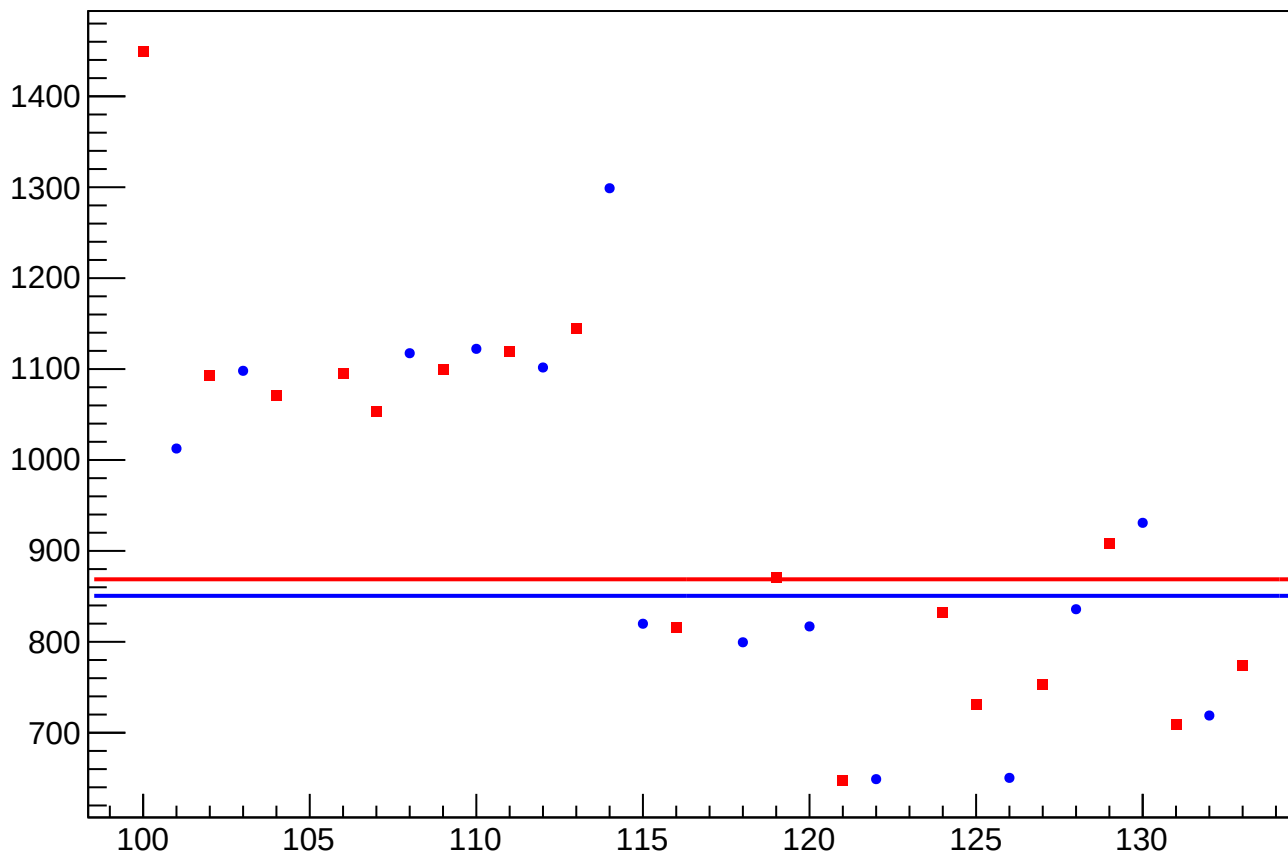
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 368.007 $\pm$ 246.425  $\chi^2$ /NDF: 25.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_cor\_correction\_rms vs Slug



Right In: 850.581+/-0.251  $\chi^2/\text{NDF}$ : 461958.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 868.763+/-0.242  $\chi^2/\text{NDF}$ : 504166.4/16

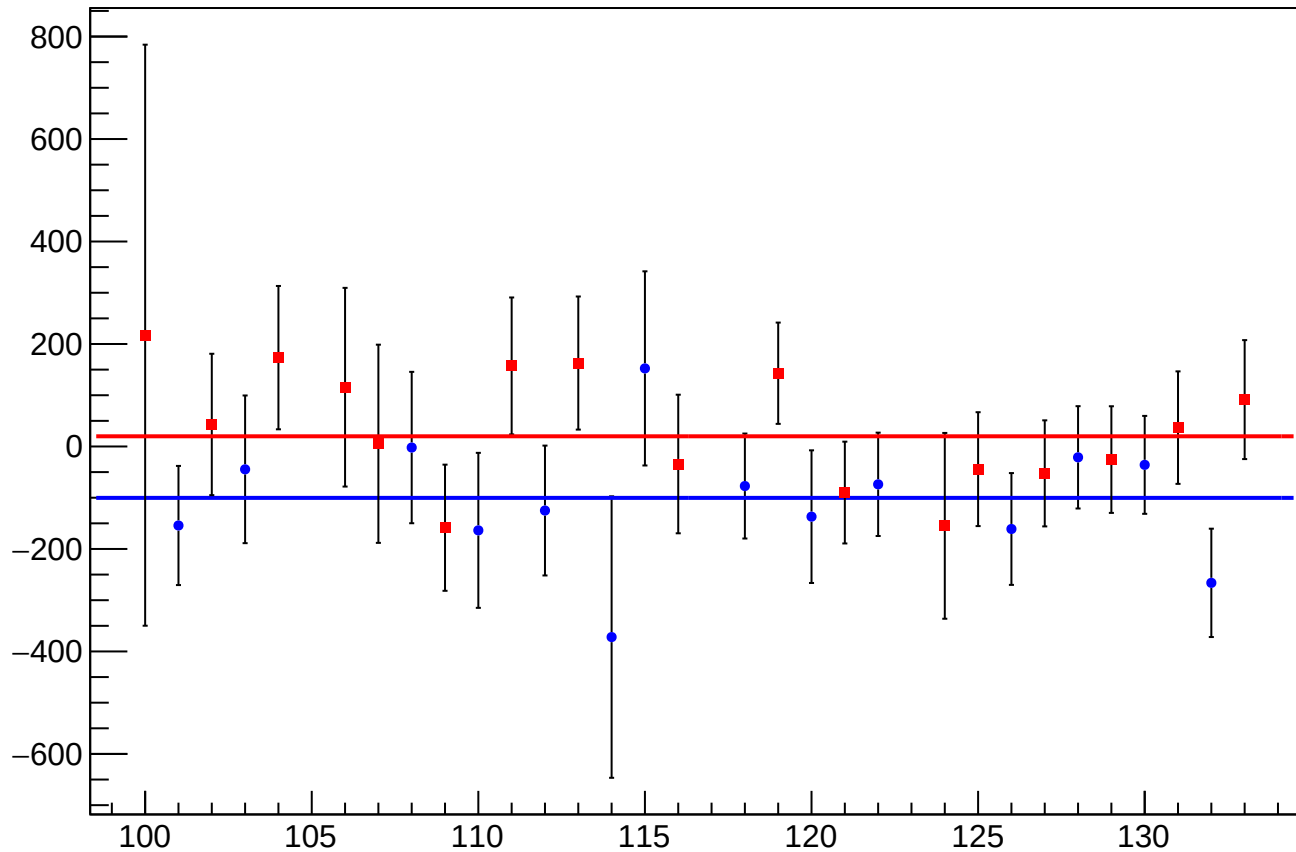
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 860.031+/-0.174  $\chi^2/\text{NDF}$ : 968842.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: -100.302 $\pm$ 32.416  $\chi^2$ /NDF: 7.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.876 $\pm$ 30.800  $\chi^2$ /NDF: 11.3/16

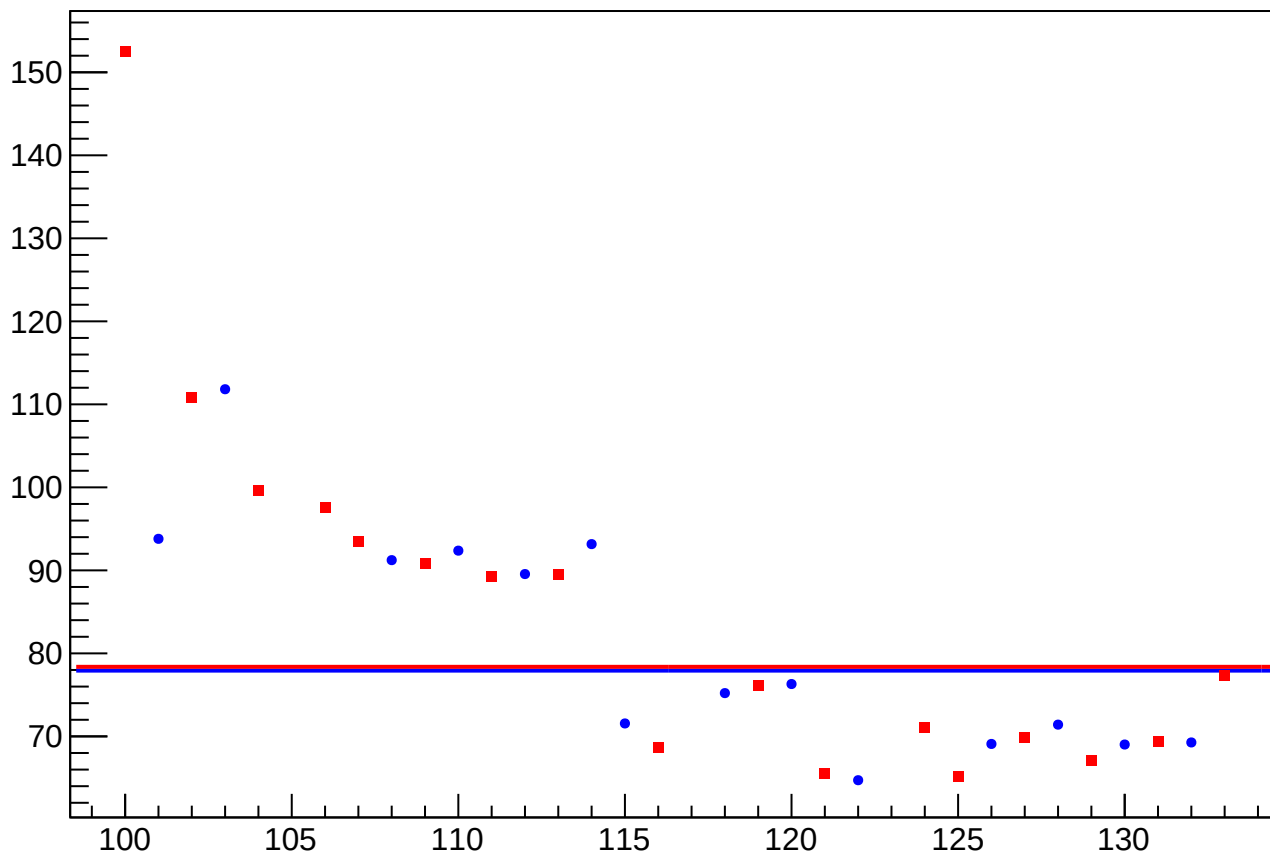
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -37.143 $\pm$ 22.328  $\chi^2$ /NDF: 26.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 77.924+/-0.023  $\chi^2/\text{NDF}$ : 296071.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 78.379+/-0.022  $\chi^2/\text{NDF}$ : 397585.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

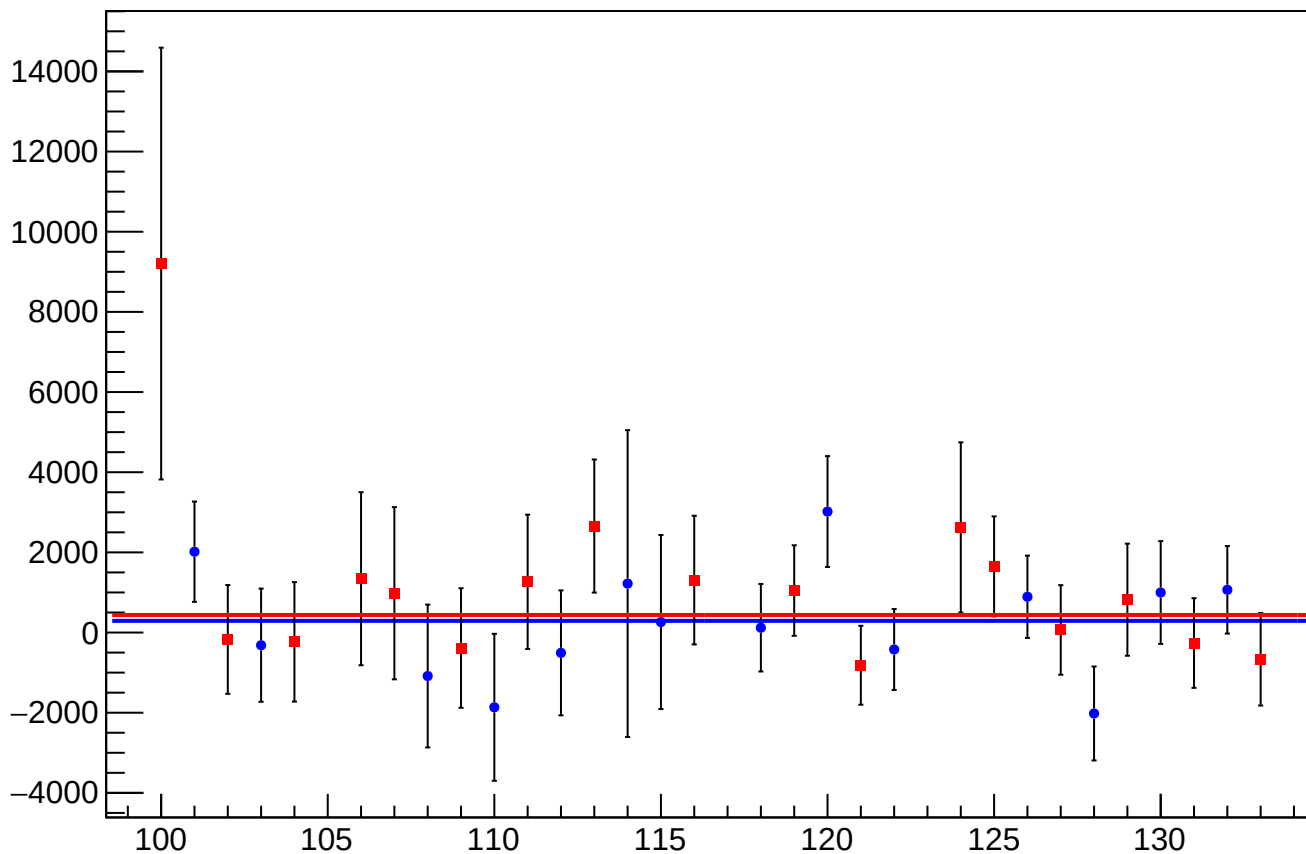
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 78.163+/-0.016  $\chi^2/\text{NDF}$ : 693864.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_26\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 291.546+/-355.584  $\chi^2/\text{NDF}$ : 13.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 438.663+/-341.819  $\chi^2/\text{NDF}$ : 11.3/16

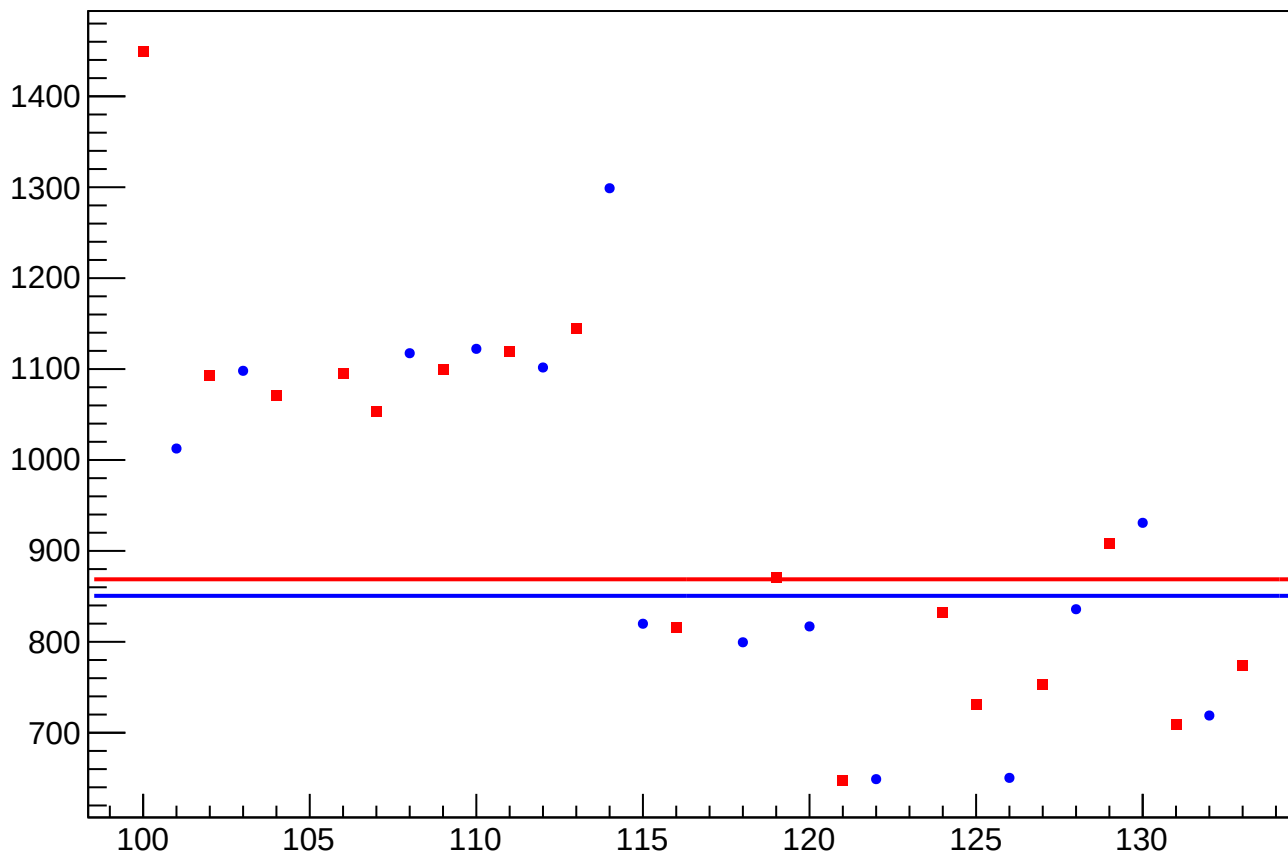
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 368.007+/-246.425  $\chi^2/\text{NDF}$ : 25.3/30

- 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: 850.581+/-0.251  $\chi^2/\text{NDF}$ : 461958.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 868.763+/-0.242  $\chi^2/\text{NDF}$ : 504166.4/16

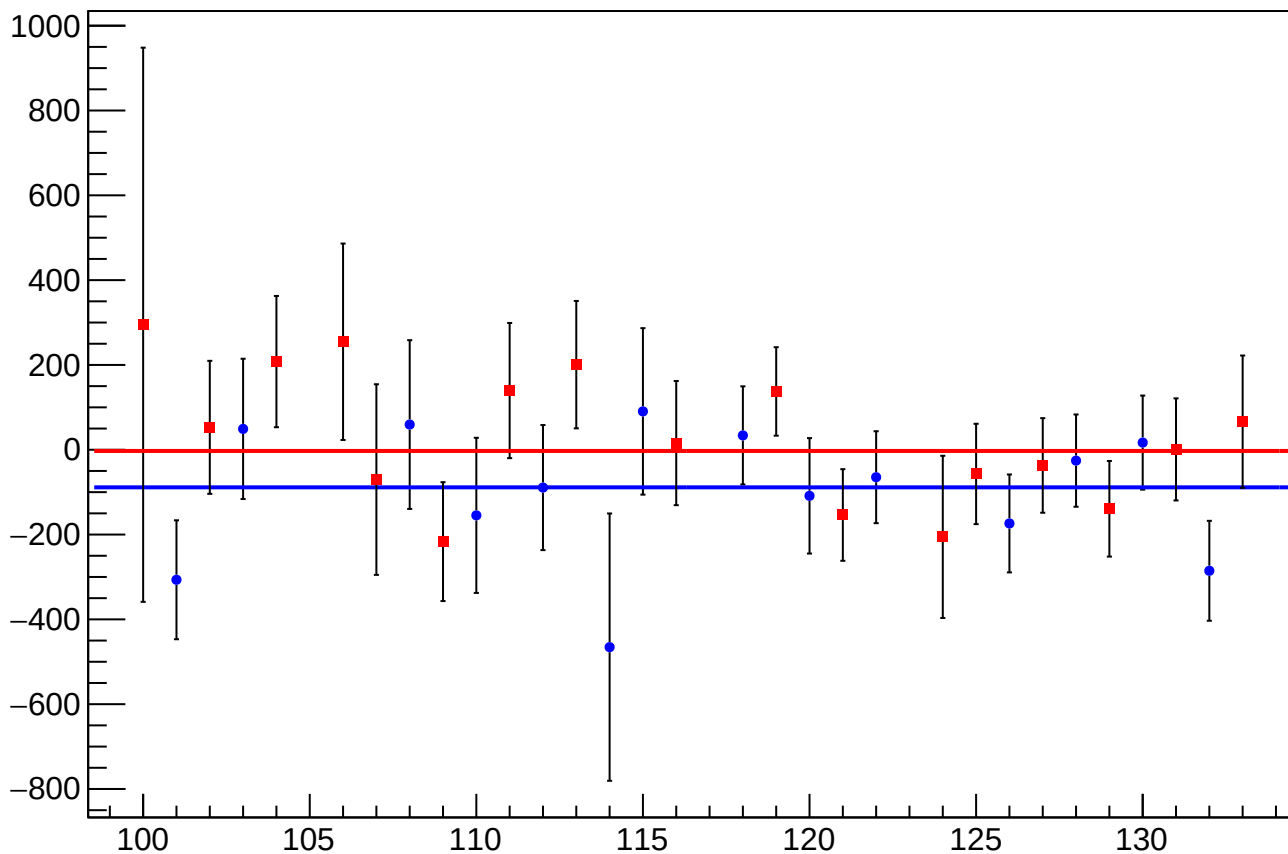
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 860.031+/-0.174  $\chi^2/\text{NDF}$ : 968842.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In:  $-88.657 \pm 36.487$   $\chi^2/\text{NDF}$ : 11.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.850 \pm 34.302$   $\chi^2/\text{NDF}$ : 15.3/16

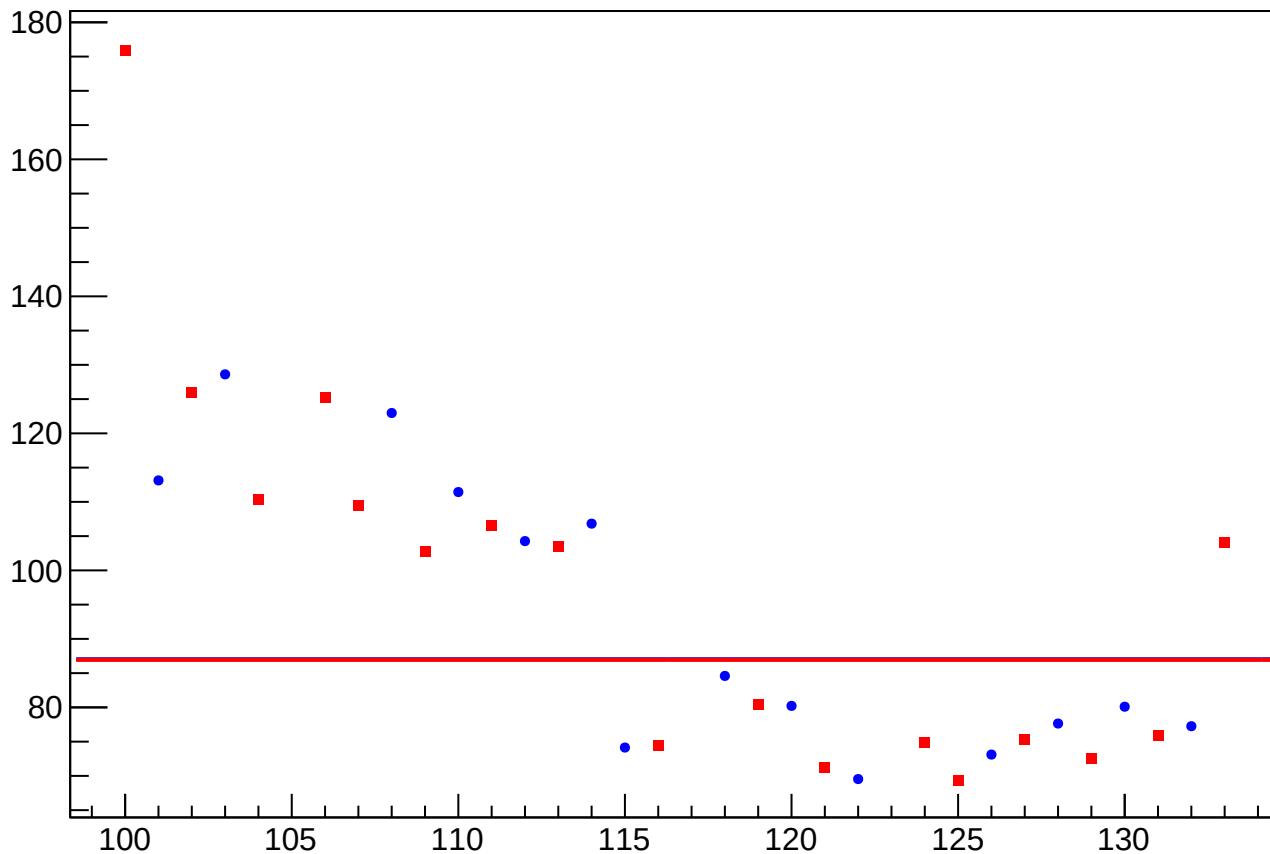
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-43.107 \pm 24.992$   $\chi^2/\text{NDF}$ : 30.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 87.029+/-0.026  $\chi^2/\text{NDF}$ : 463885.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 86.934+/-0.024  $\chi^2/\text{NDF}$ : 573628.6/16

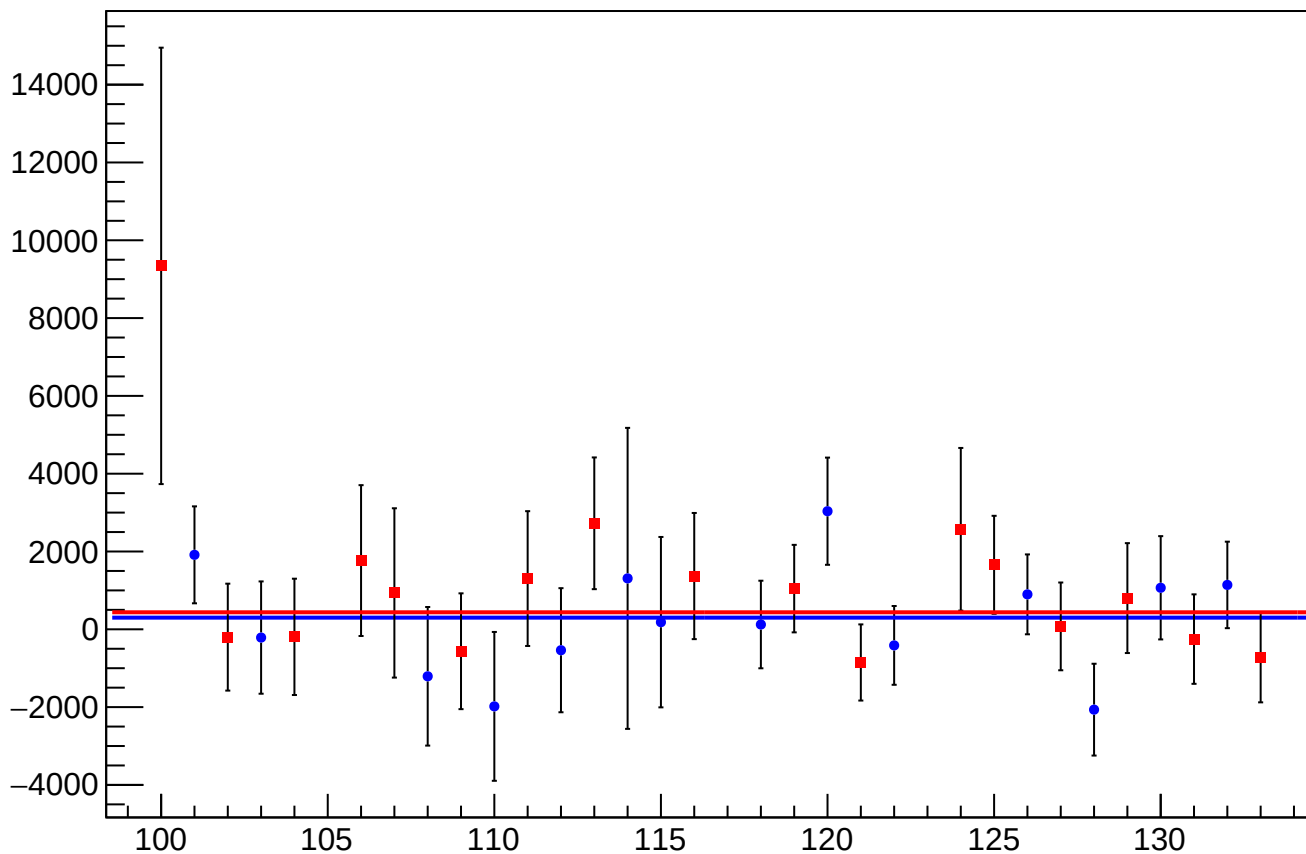
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 86.978+/-0.018  $\chi^2/\text{NDF}$ : 1037520.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_26\_dd\_dit\_correction\_mean vs Slug



Right In: 299.901 $\pm$ 360.007  $\chi^2$ /NDF: 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 437.379 $\pm$ 343.138  $\chi^2$ /NDF: 11.9/16

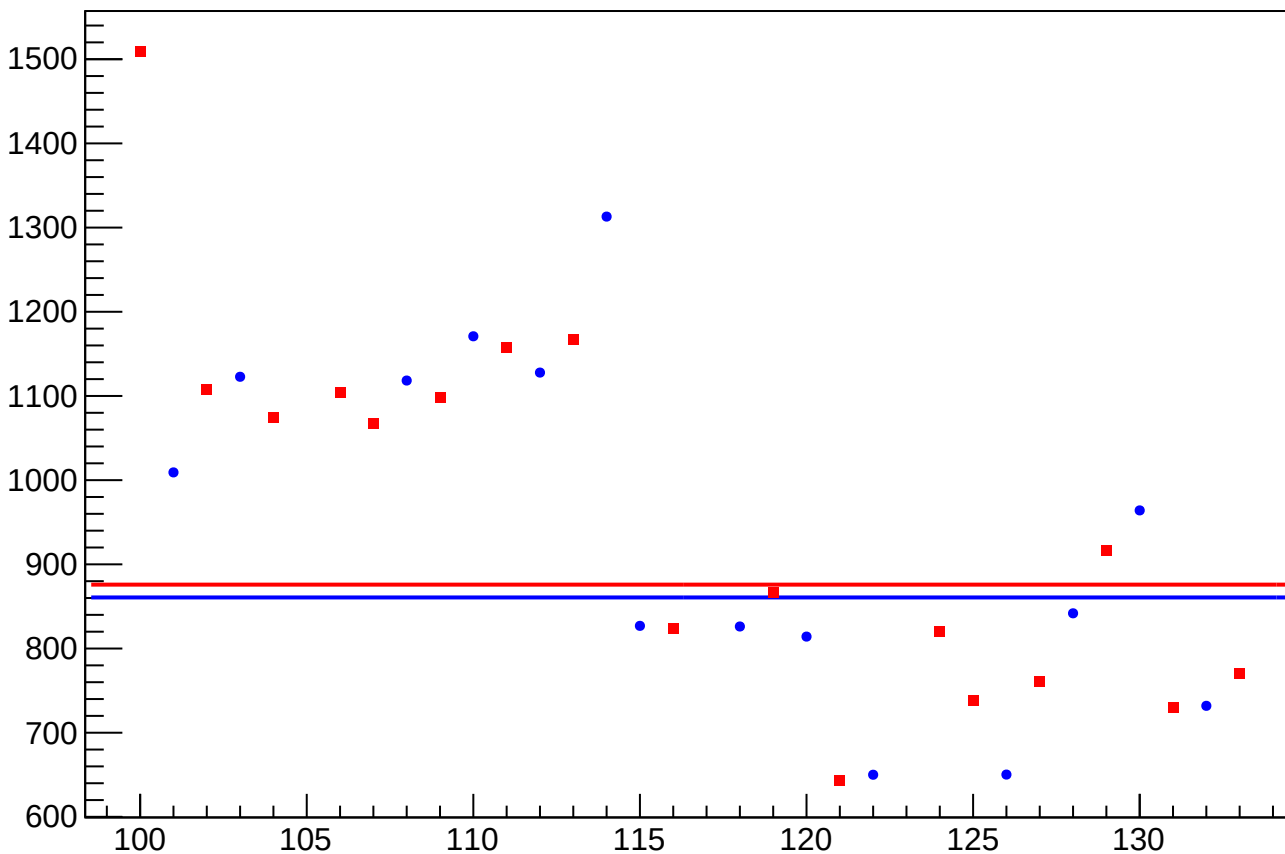
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 371.936 $\pm$ 248.385  $\chi^2$ /NDF: 26.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_26\_dd\_dit\_correction\_rms vs Slug



Right In: 860.673+/-0.255  $\chi^2/\text{NDF}$ : 486819.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 875.896+/-0.243  $\chi^2/\text{NDF}$ : 529442.8/16

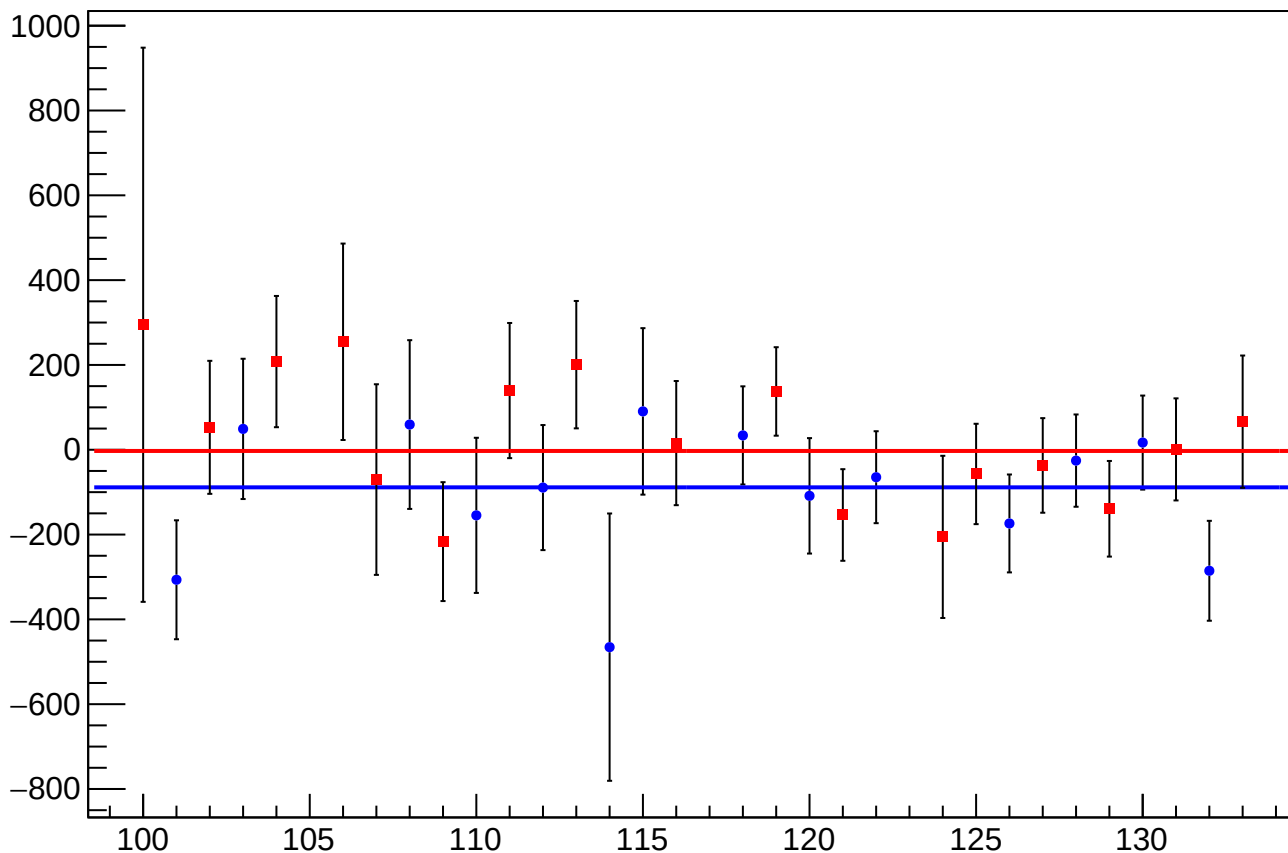
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 868.650+/-0.176  $\chi^2/\text{NDF}$ : 1018136.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: -88.657 $\pm$ 36.487  $\chi^2$ /NDF: 11.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.851 $\pm$ 34.302  $\chi^2$ /NDF: 15.3/16

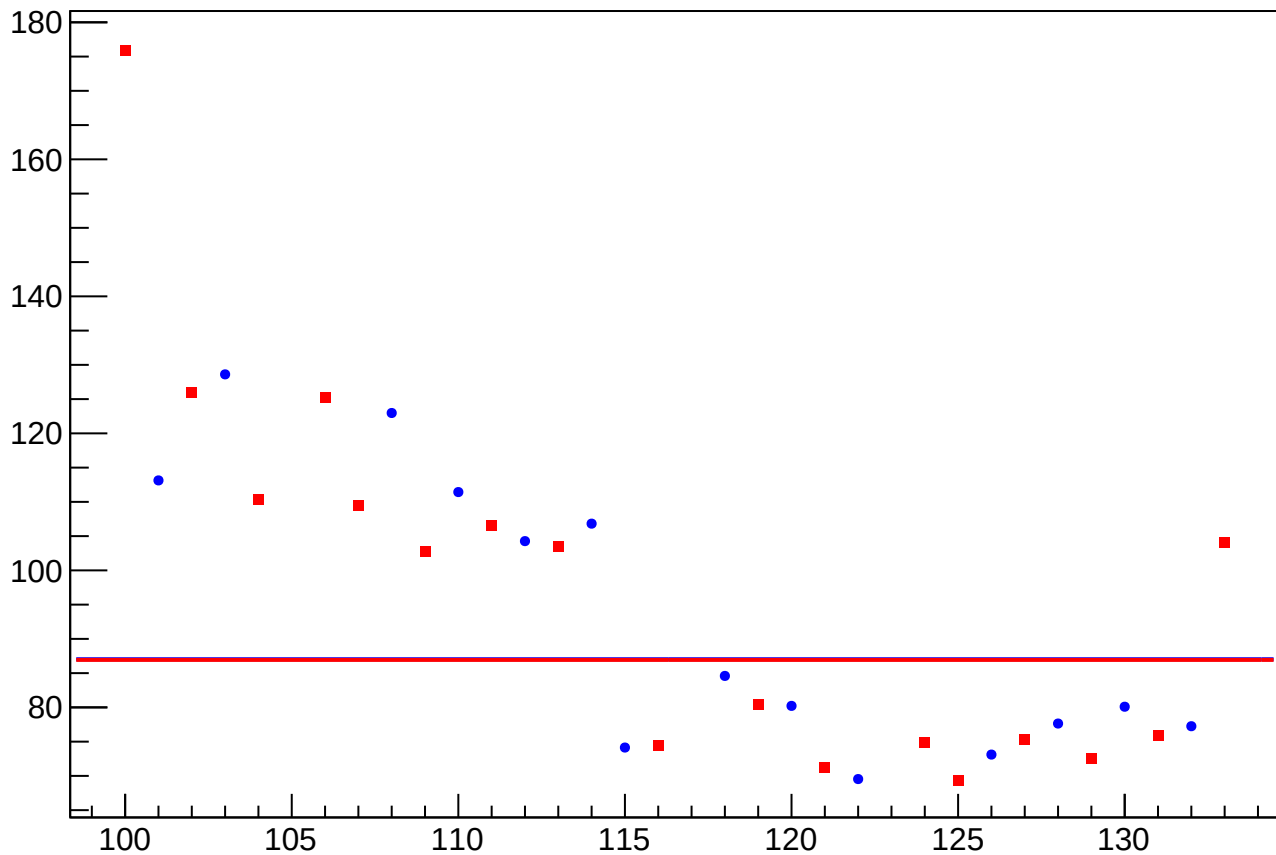
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -43.108 $\pm$ 24.992  $\chi^2$ /NDF: 30.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 87.028+/-0.026  $\chi^2/\text{NDF}$ : 463880.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 86.933+/-0.024  $\chi^2/\text{NDF}$ : 573618.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

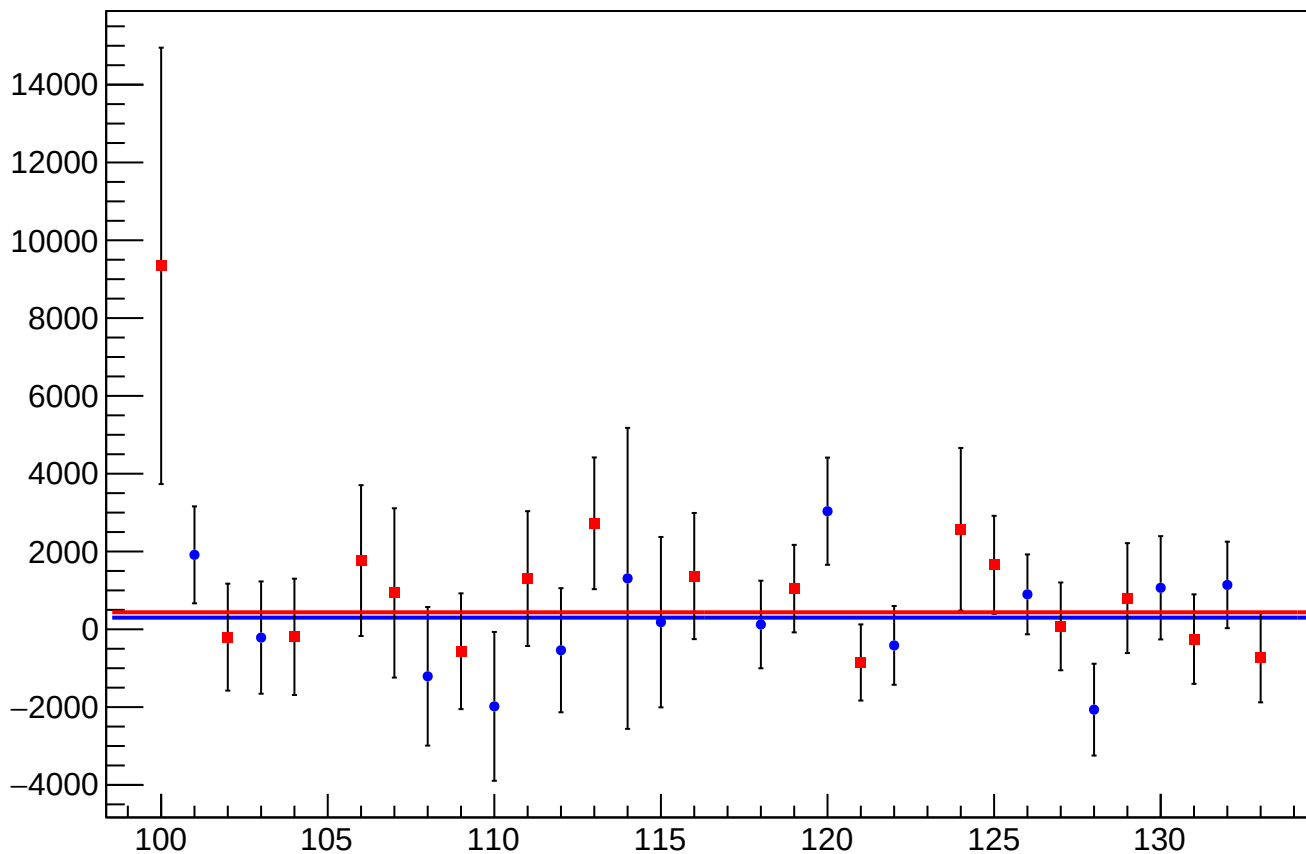
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 86.978+/-0.018  $\chi^2/\text{NDF}$ : 1037505.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_15\_26\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 299.901 $\pm$ 360.006  $\chi^2$ /NDF: 14.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 437.378 $\pm$ 343.137  $\chi^2$ /NDF: 11.9/16

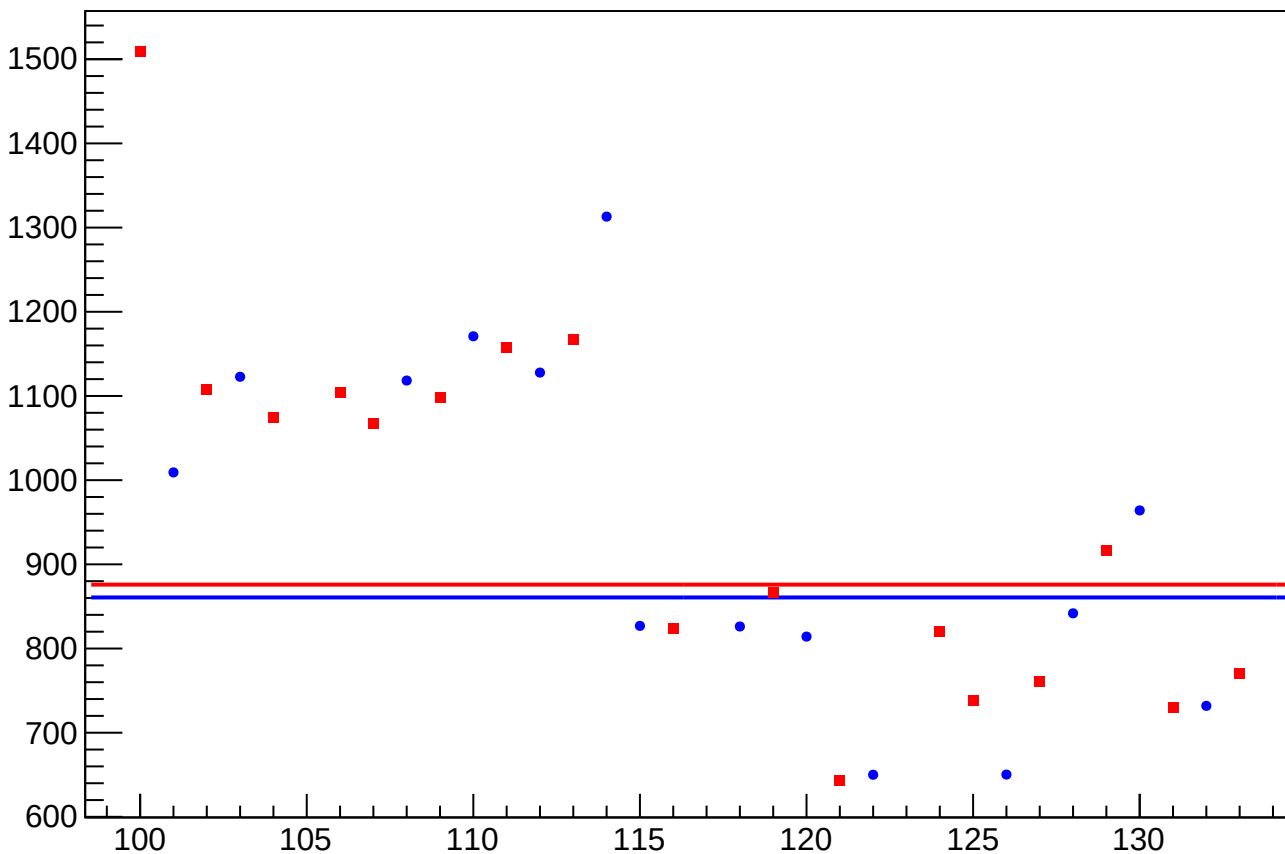
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 371.936 $\pm$ 248.384  $\chi^2$ /NDF: 26.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 860.671+/-0.255  $\chi^2/\text{NDF}$ : 486813.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 875.894+/-0.243  $\chi^2/\text{NDF}$ : 529437.3/16

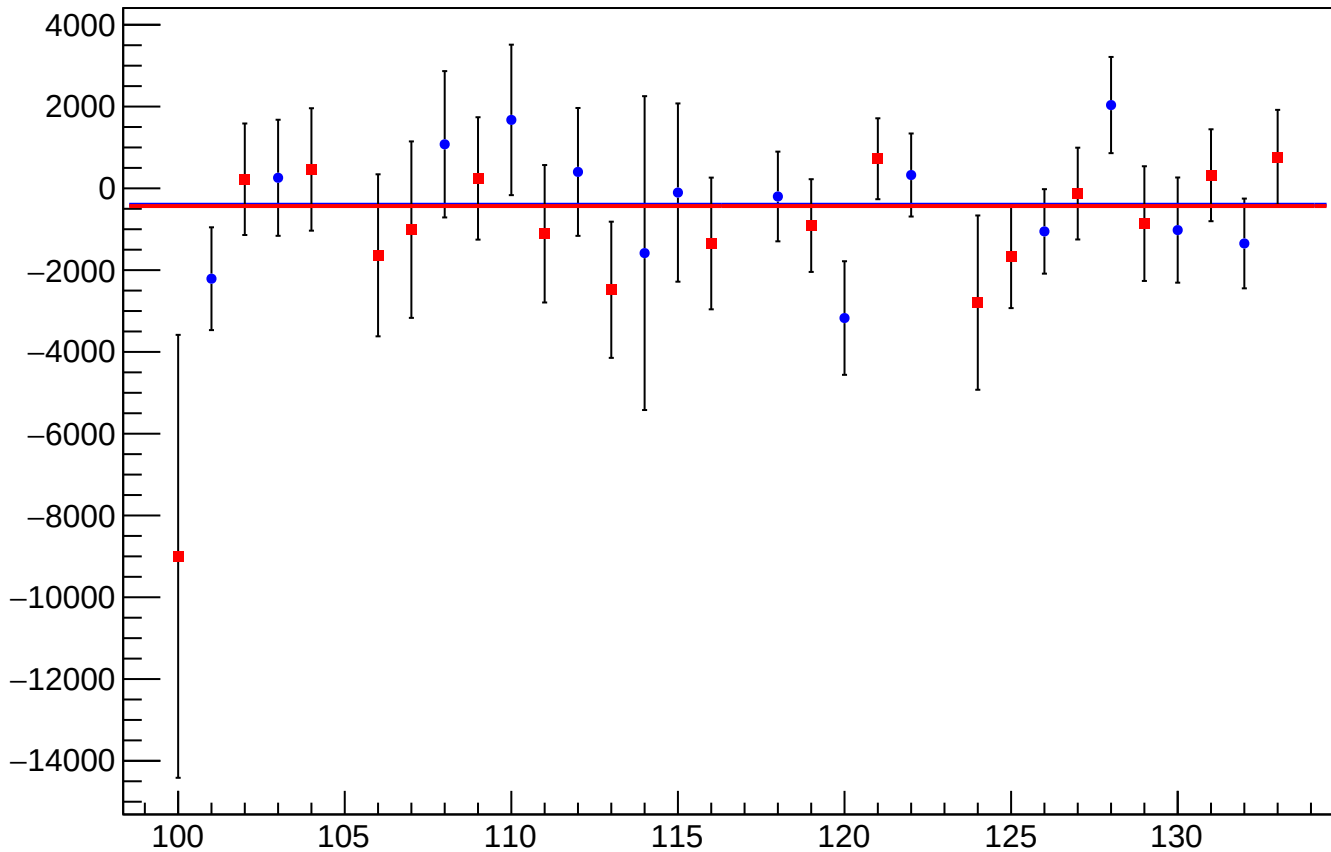
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 868.647+/-0.176  $\chi^2/\text{NDF}$ : 1018124.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: -401.437+/-357.184  $\chi^2$ /NDF: 14.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -432.899+/-342.461  $\chi^2$ /NDF: 11.2/16

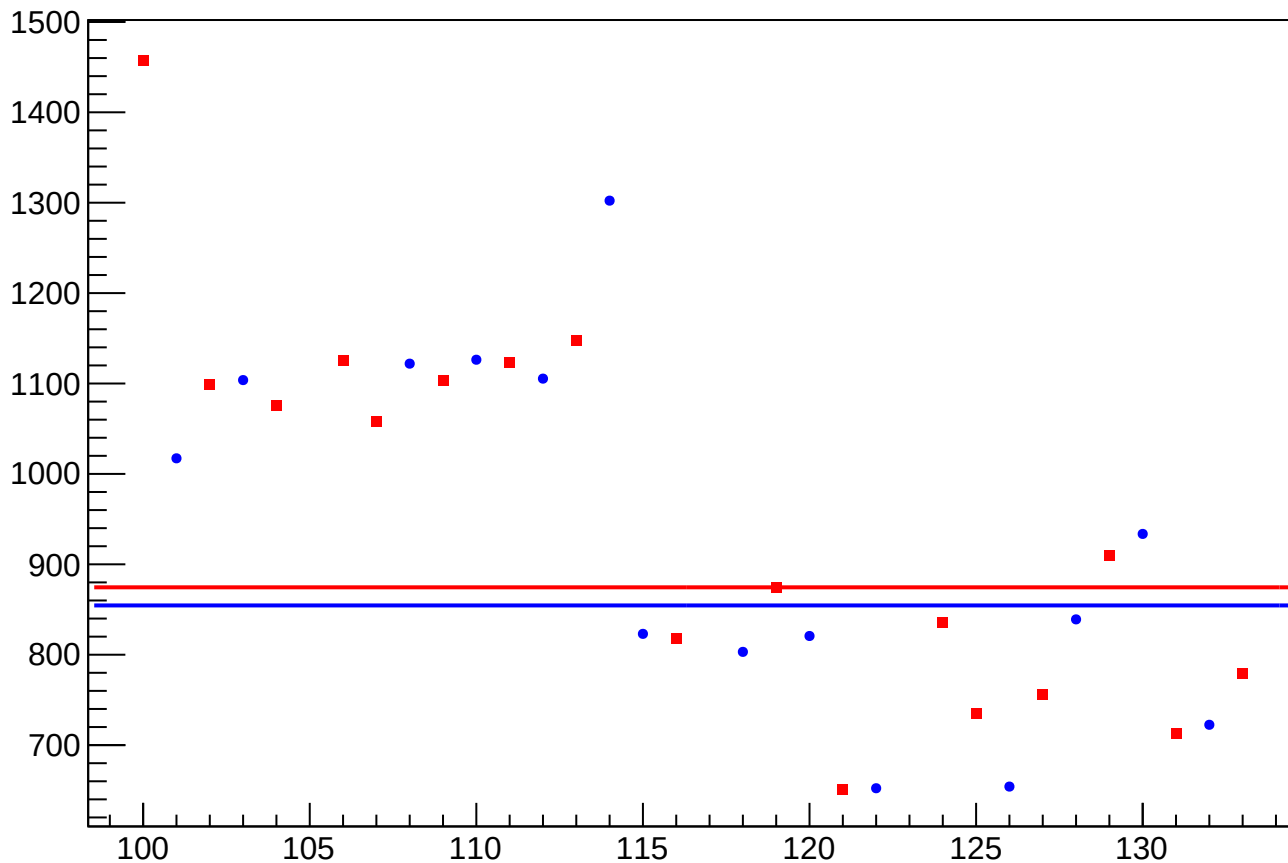
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -417.830+/-247.198  $\chi^2$ /NDF: 26.0/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 854.516+/-0.253  $\chi^2/\text{NDF}$ : 459655.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 874.552+/-0.242  $\chi^2/\text{NDF}$ : 512741.9/16

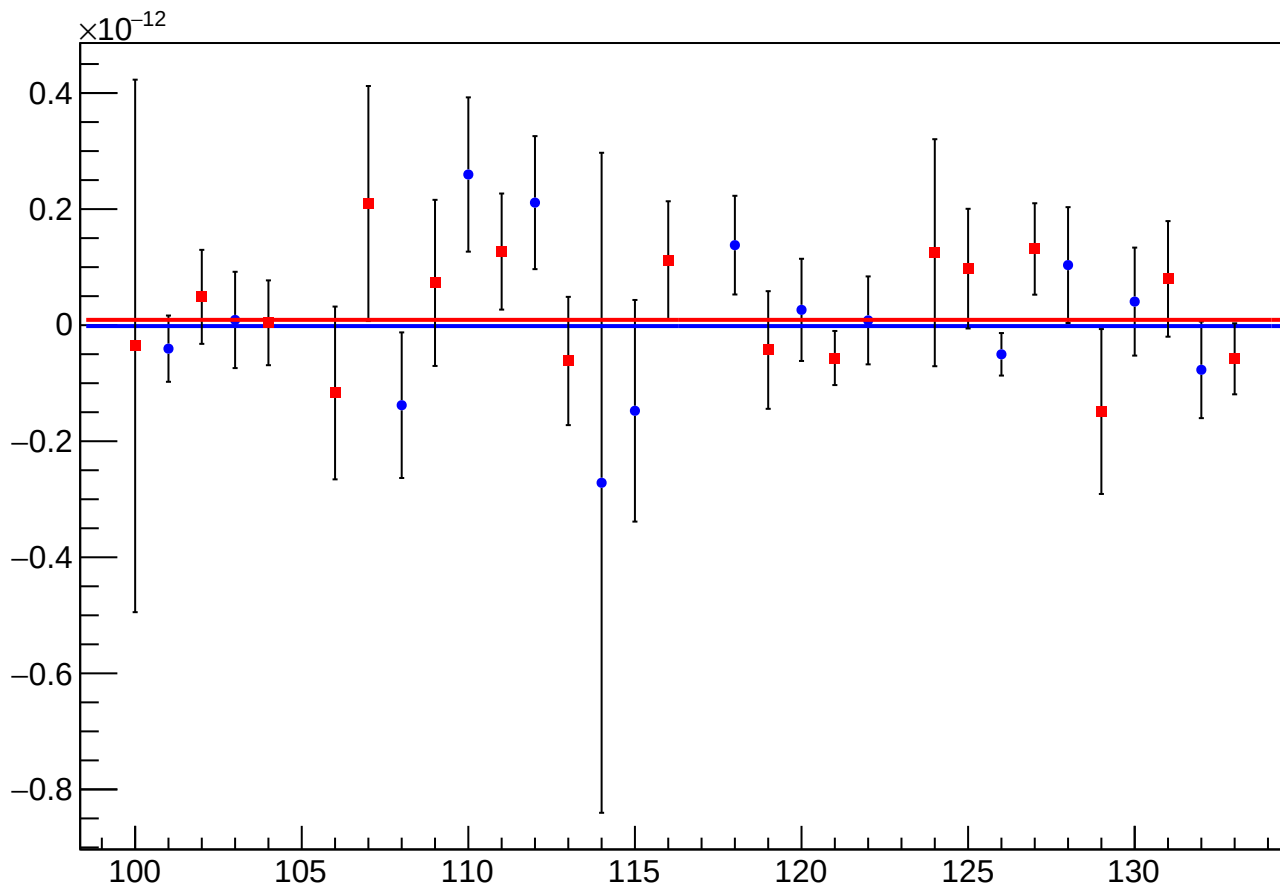
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 864.956+/-0.175  $\chi^2/\text{NDF}$ : 975676.7/30

- sign 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+/-0.000  $\chi^2$ /NDF: 16.5/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 13.6/16

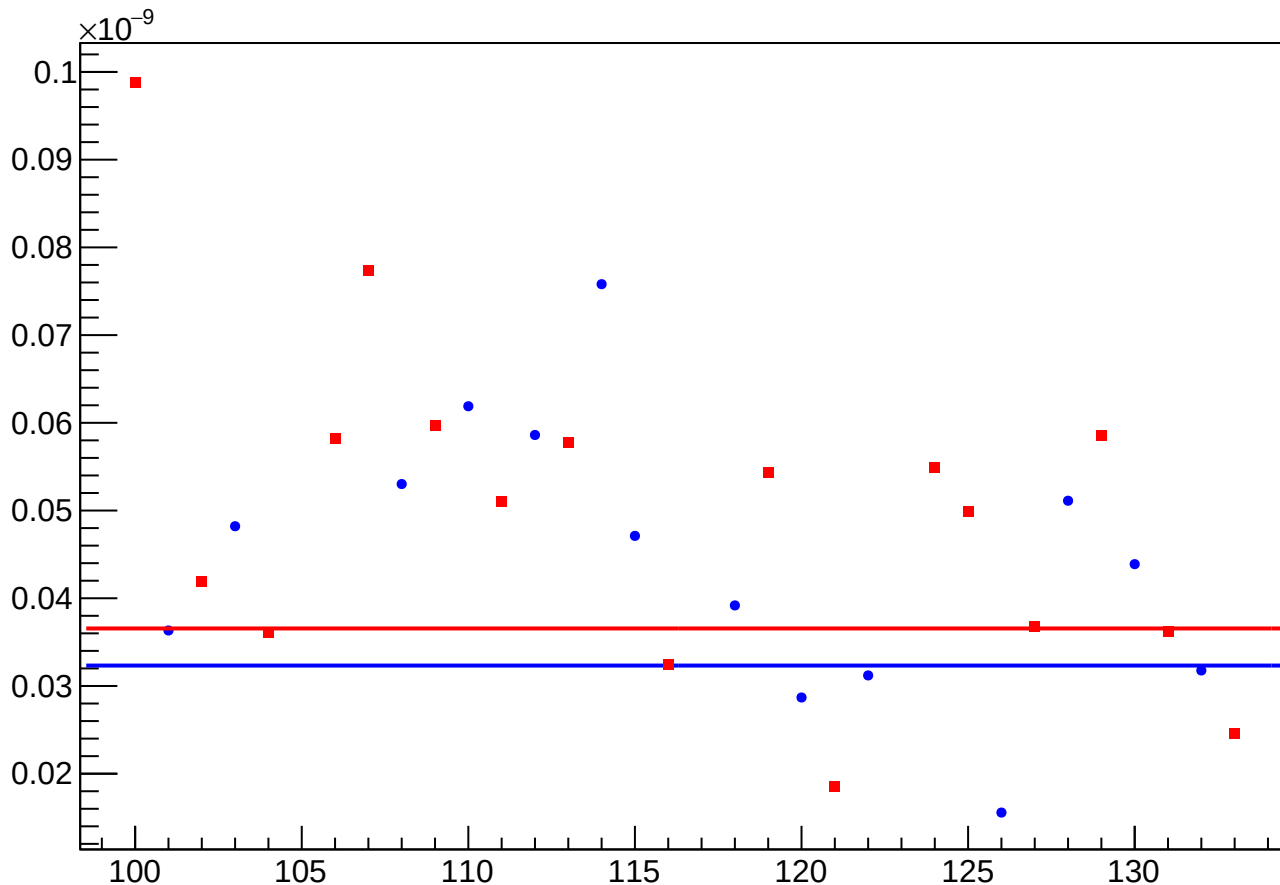
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 30.2/30

- sign 0.000+/-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  $\chi^2/\text{NDF}$ : 902444.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 875620.5/16

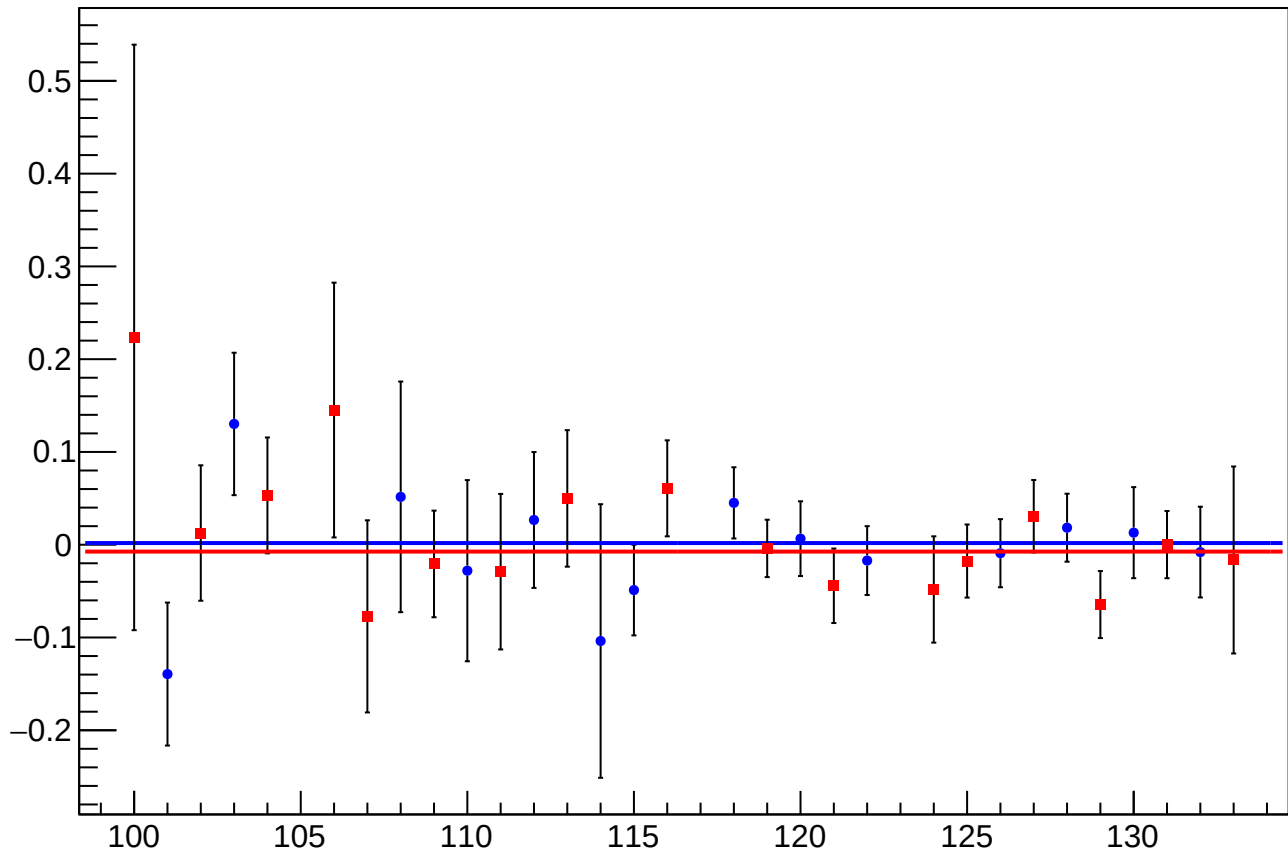
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1815701.7/30

- 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: 0.002 $\pm$ 0.013  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.007 $\pm$ 0.012  $\chi^2$ /NDF: 10.6/16

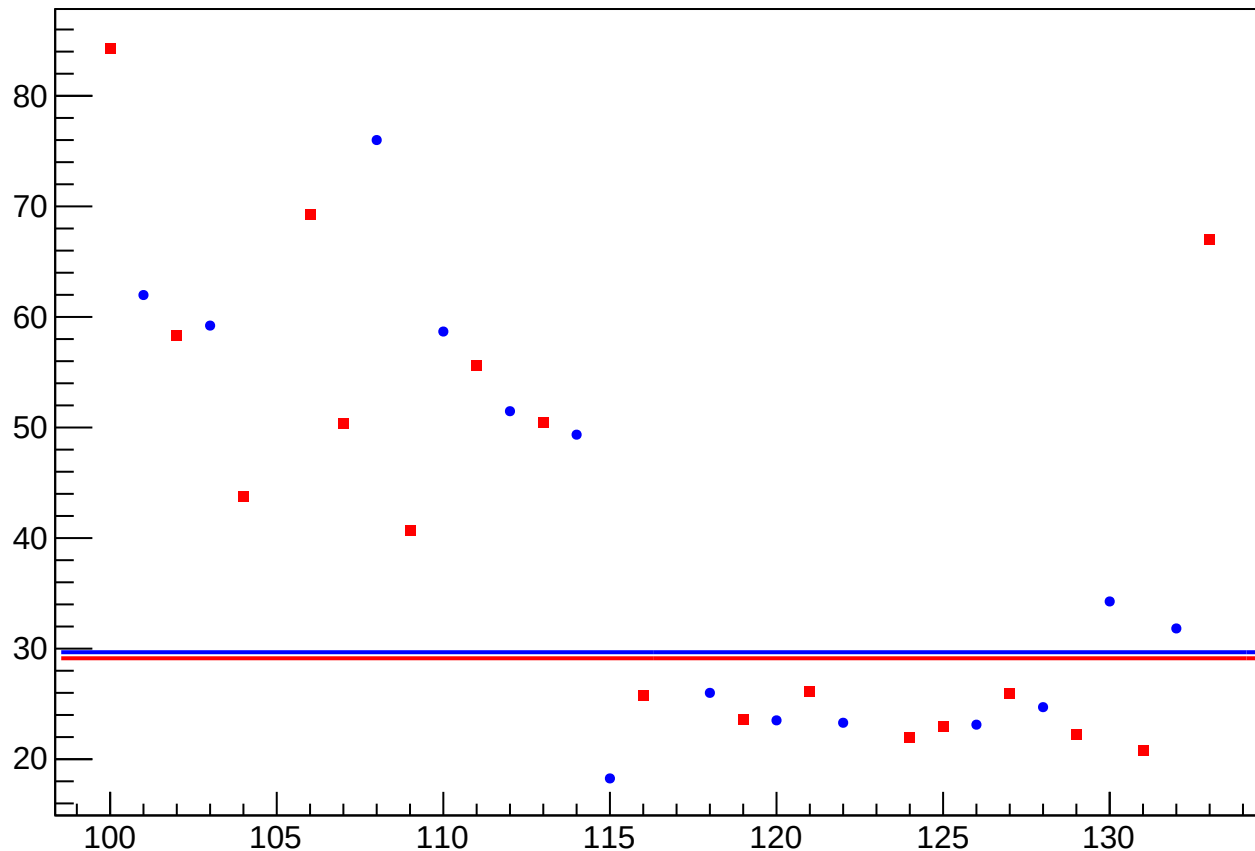
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.009  $\chi^2$ /NDF: 20.9/30

- 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: 29.676+/-0.010  $\chi^2/\text{NDF}$ : 1670141.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.128+/-0.009  $\chi^2/\text{NDF}$ : 1832949.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

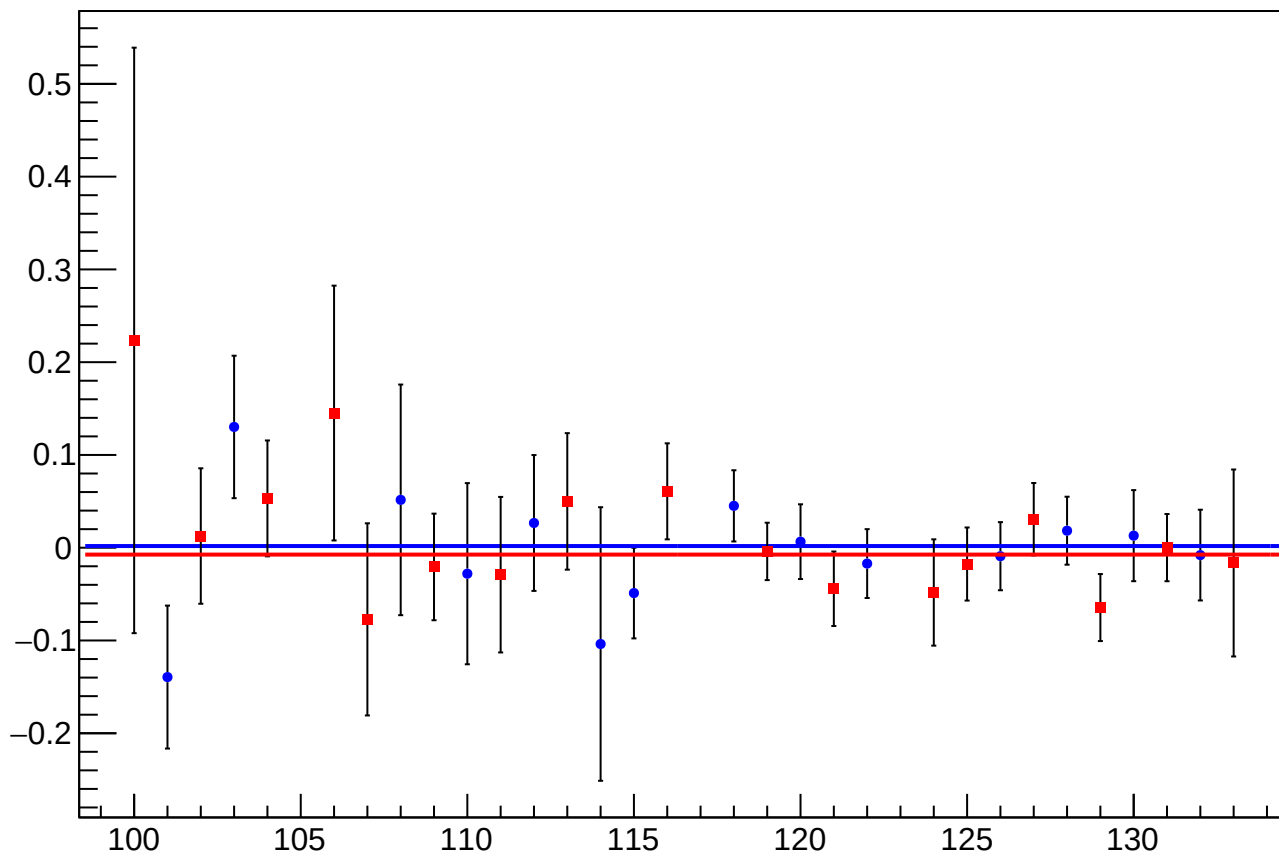
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.379+/-0.006  $\chi^2/\text{NDF}$ : 3504880.2/30

- 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: 0.002 $\pm$ 0.013  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.007 $\pm$ 0.012  $\chi^2$ /NDF: 10.6/16

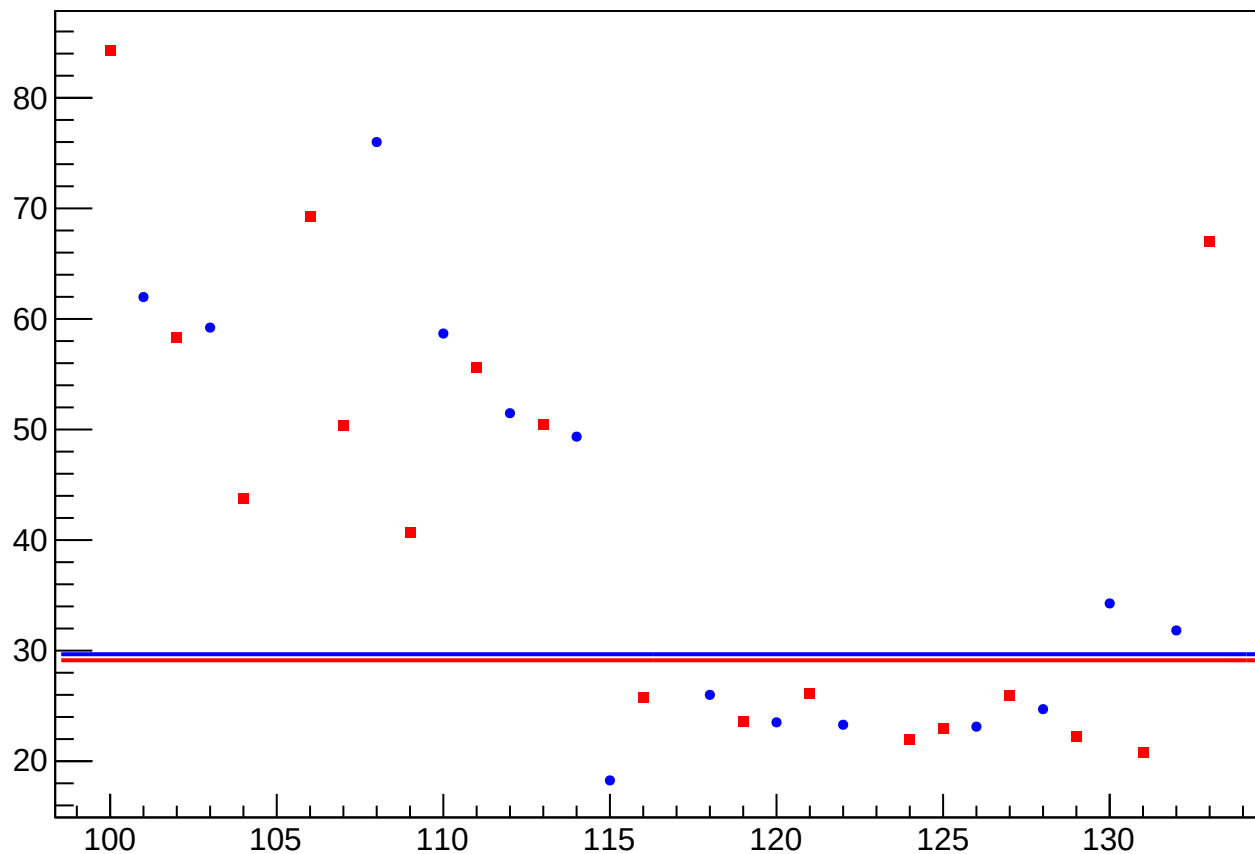
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.009  $\chi^2$ /NDF: 20.9/30

- 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: 29.676+/-0.010  $\chi^2/\text{NDF}$ : 1670141.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.128+/-0.009  $\chi^2/\text{NDF}$ : 1832949.7/16

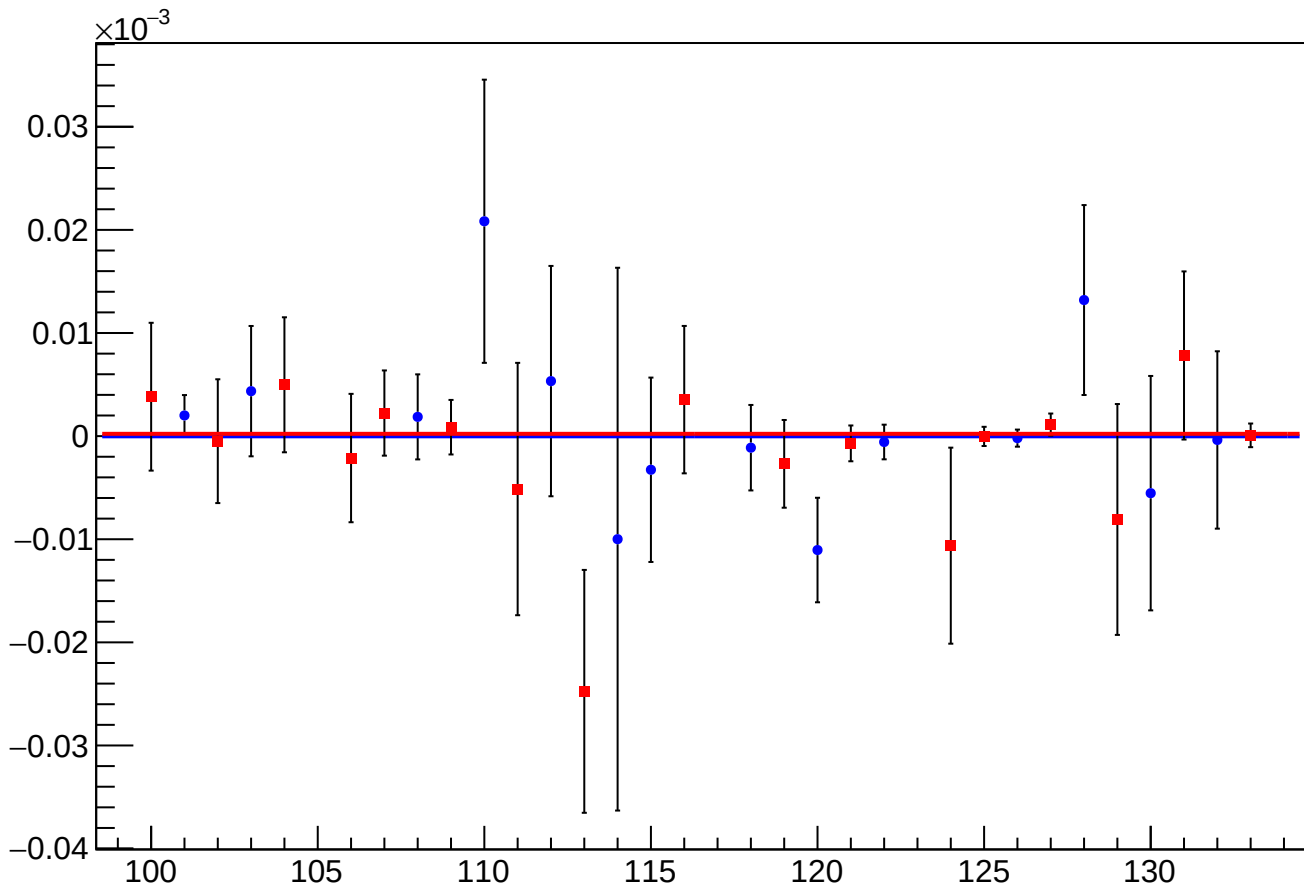
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.379+/-0.006  $\chi^2/\text{NDF}$ : 3504880.2/30

- 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: 11.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 10.4/16

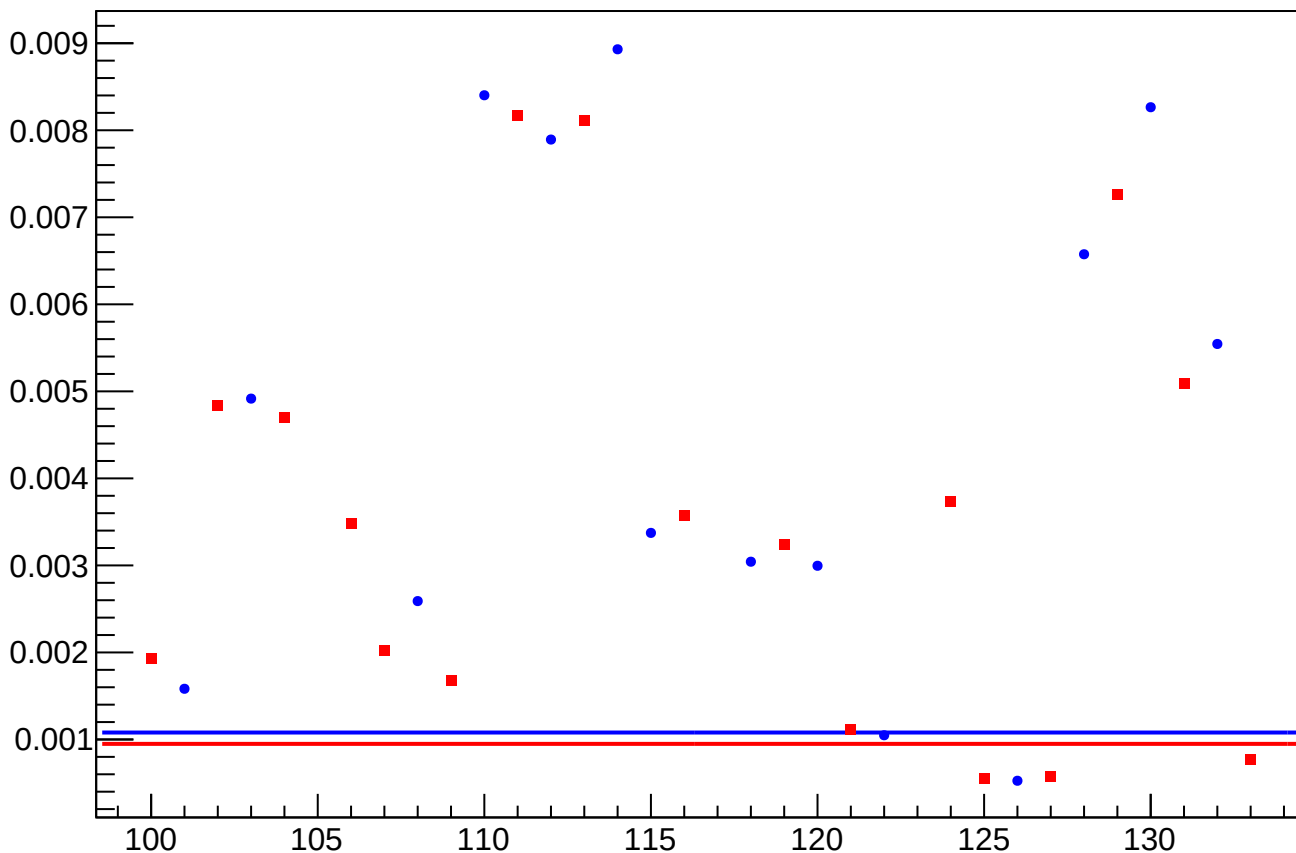
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 22.3/30

- 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: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 6434915.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 6437601.5/16

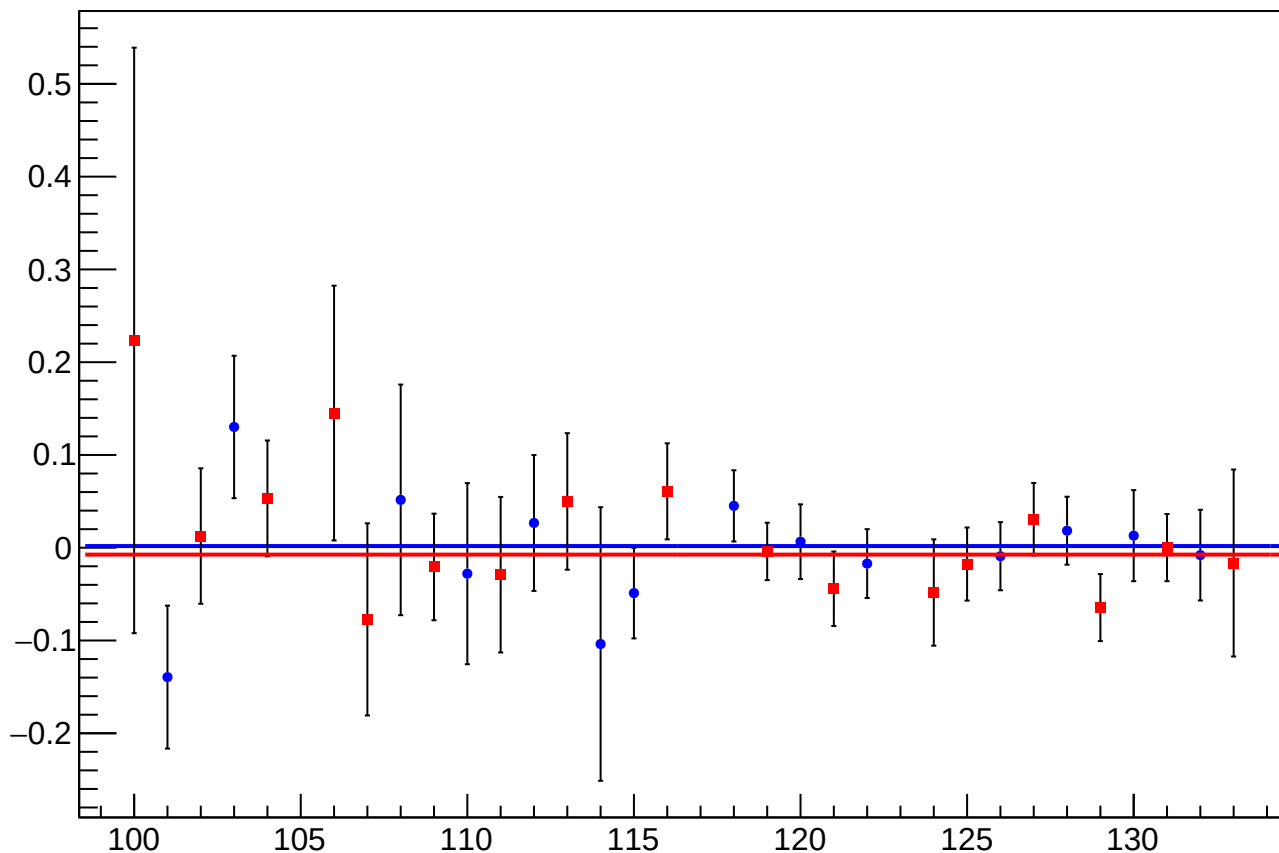
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 12920033.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: 0.002 $\pm$ 0.013  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.007 $\pm$ 0.012  $\chi^2$ /NDF: 10.6/16

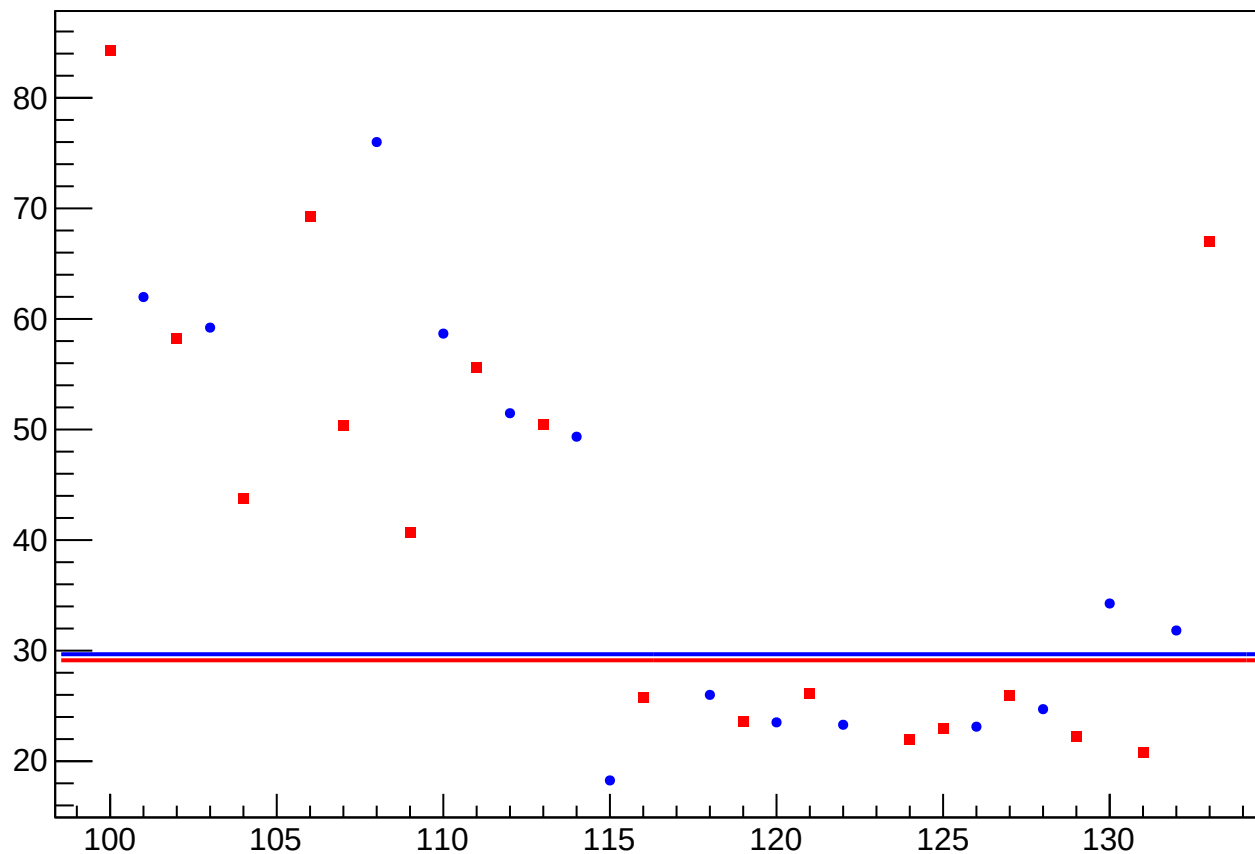
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.009  $\chi^2$ /NDF: 20.9/30

- 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: 29.676+/-0.010  $\chi^2/\text{NDF}$ : 1669956.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.127+/-0.009  $\chi^2/\text{NDF}$ : 1832945.9/16

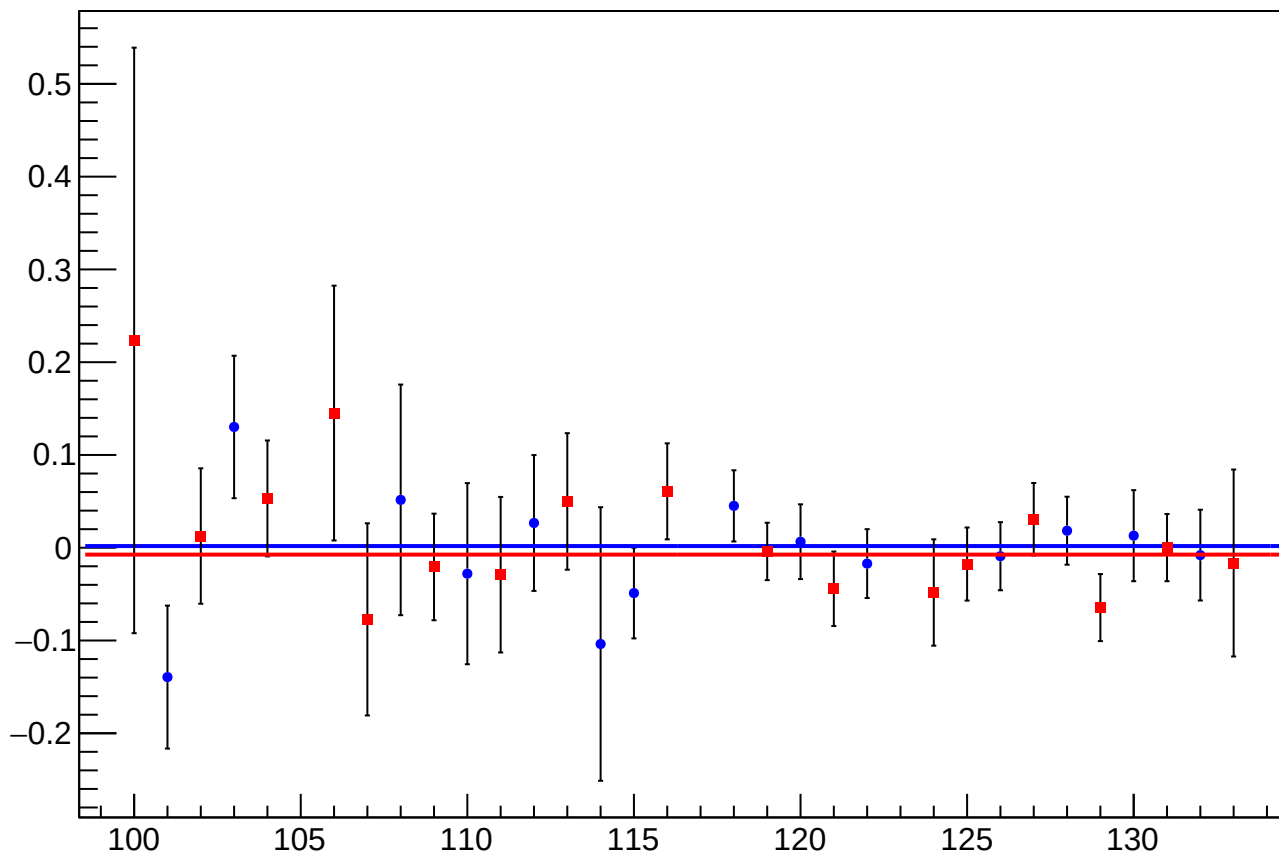
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.379+/-0.006  $\chi^2/\text{NDF}$ : 3504695.6/30

- 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: 0.002 $\pm$ 0.013  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.007 $\pm$ 0.012  $\chi^2$ /NDF: 10.6/16

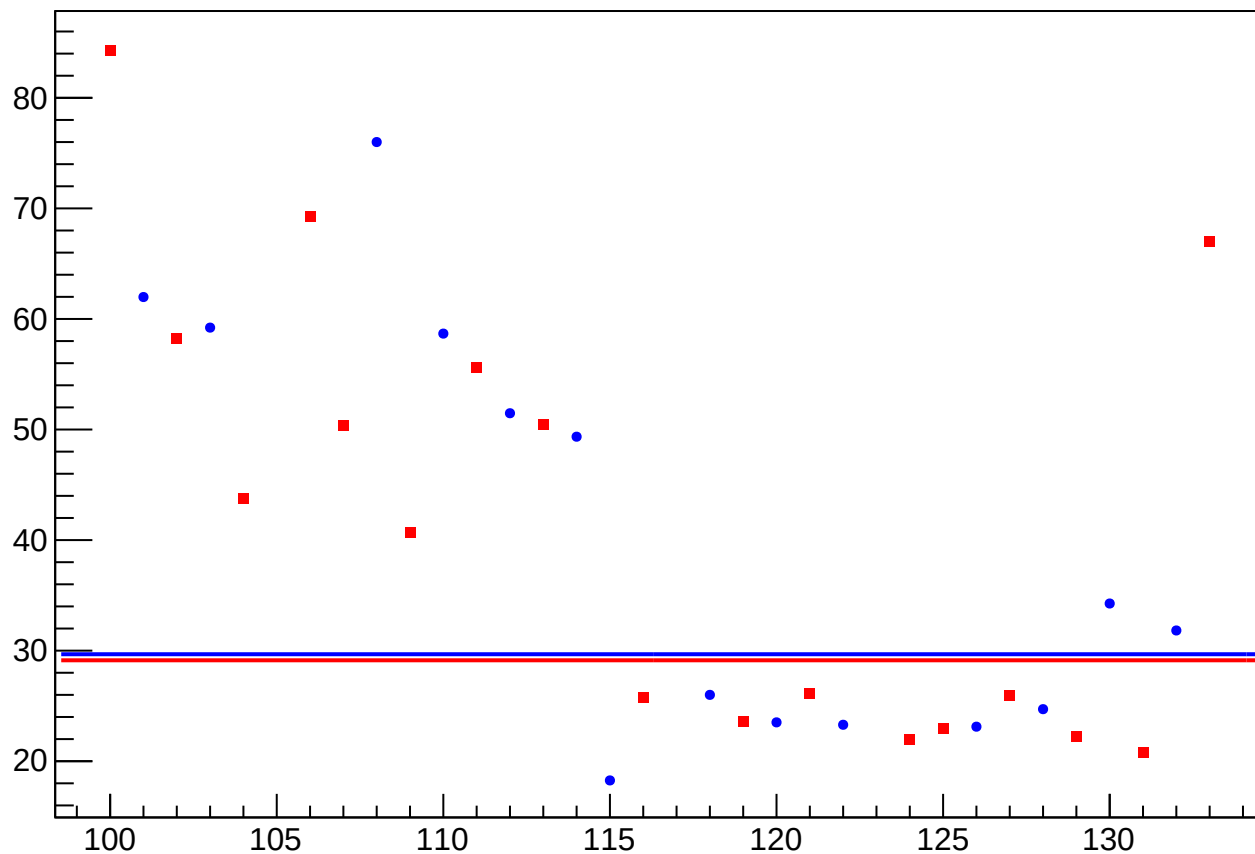
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.003 $\pm$ 0.009  $\chi^2$ /NDF: 20.9/30

- 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: 29.676+/-0.010  $\chi^2/\text{NDF}$ : 1669956.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.127+/-0.009  $\chi^2/\text{NDF}$ : 1832945.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

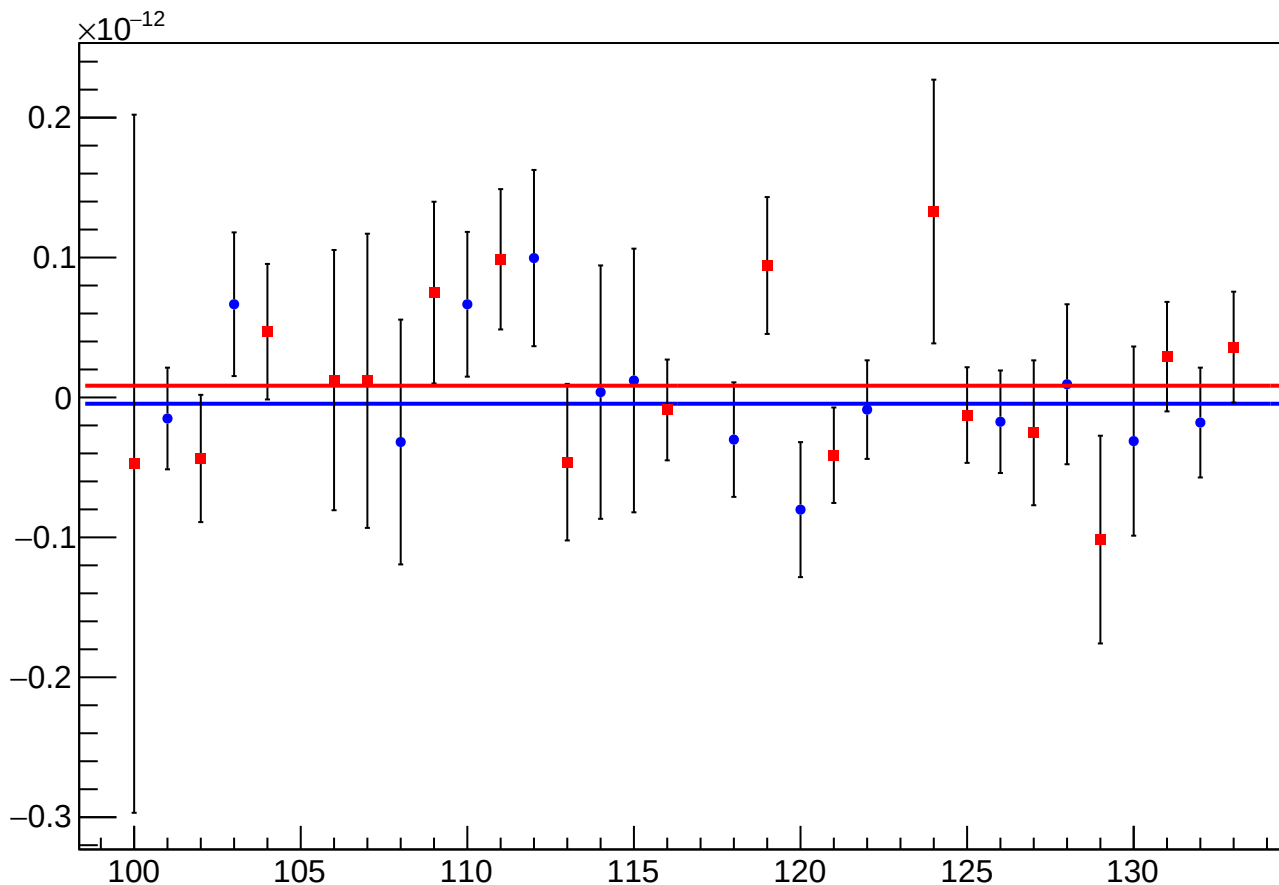
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.379+/-0.006  $\chi^2/\text{NDF}$ : 3504695.6/30

- 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+/-0.000  $\chi^2/\text{NDF}$ : 10.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 18.2/16

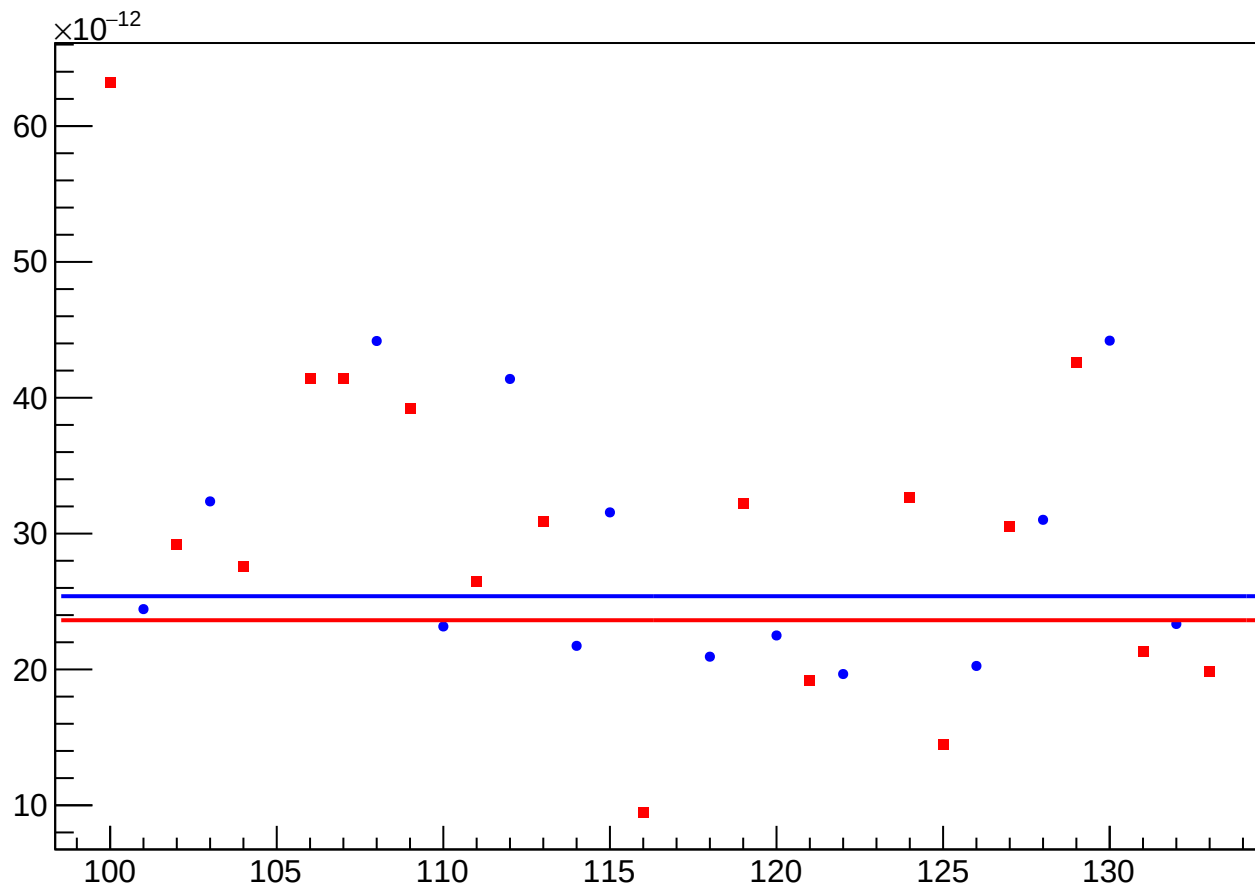
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_15\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 577720.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1139245.0/16

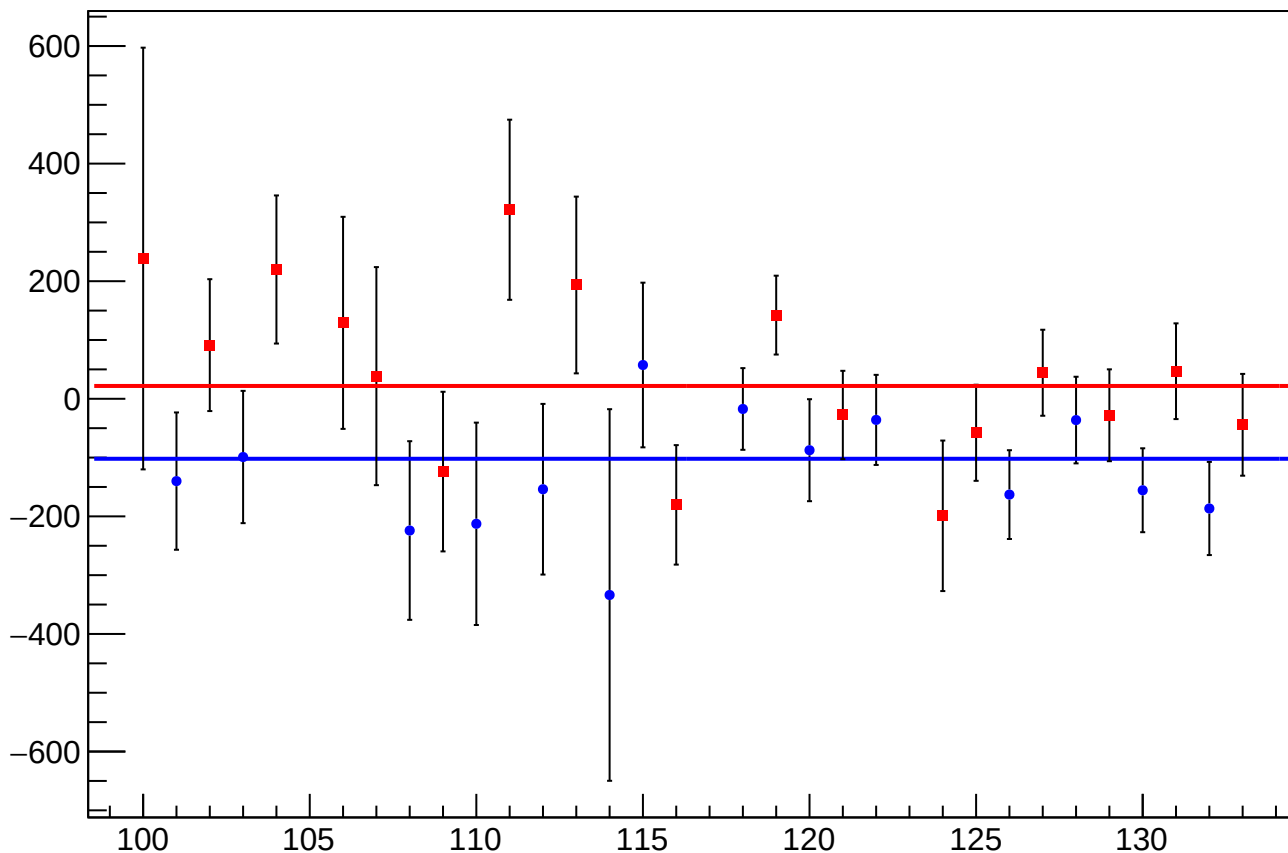
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1736877.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: -102.038 $\pm$ 25.288  $\chi^2$ /NDF: 8.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.809 $\pm$ 24.300  $\chi^2$ /NDF: 22.6/16

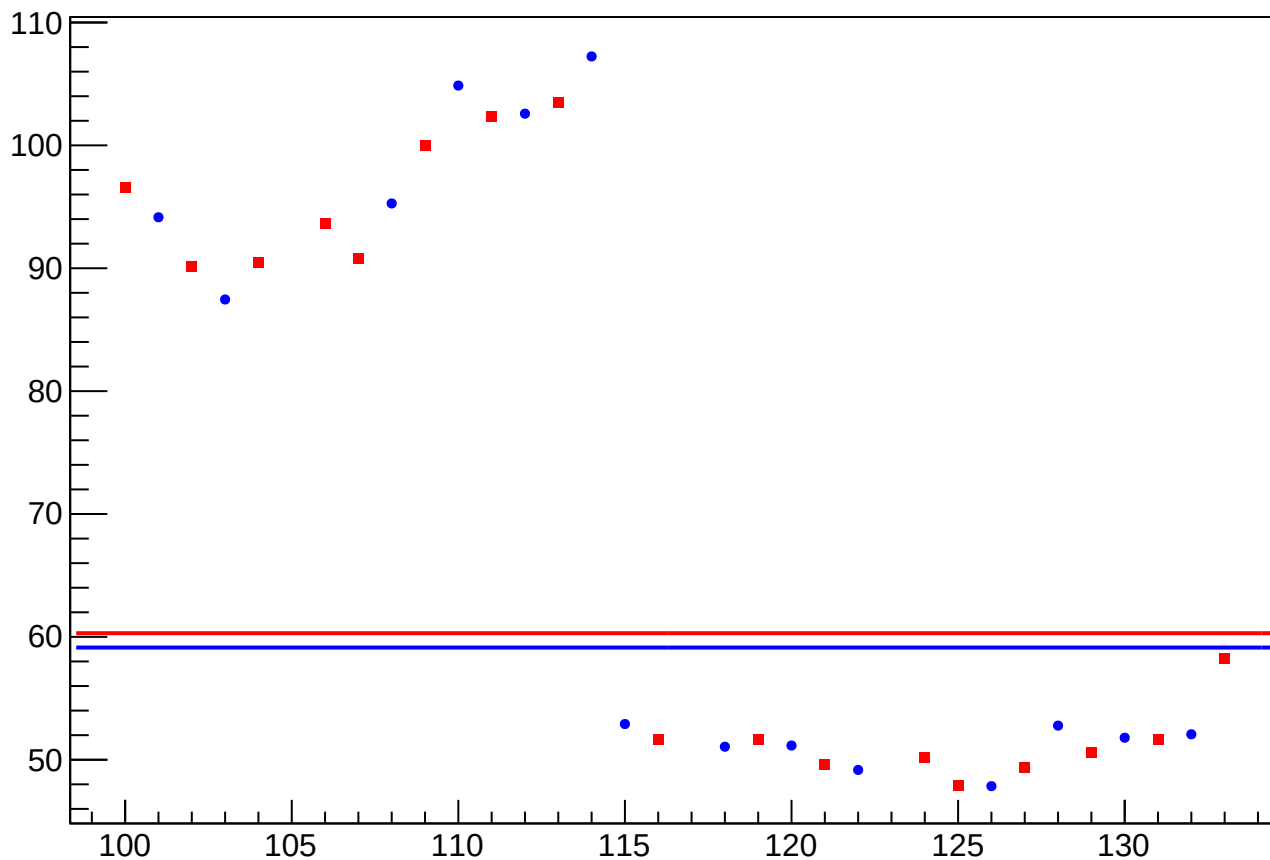
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -37.648 $\pm$ 17.522  $\chi^2$ /NDF: 43.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 59.132 $\pm$ 0.018  $\chi^2$ /NDF: 964811.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 60.300 $\pm$ 0.017  $\chi^2$ /NDF: 1131692.4/16

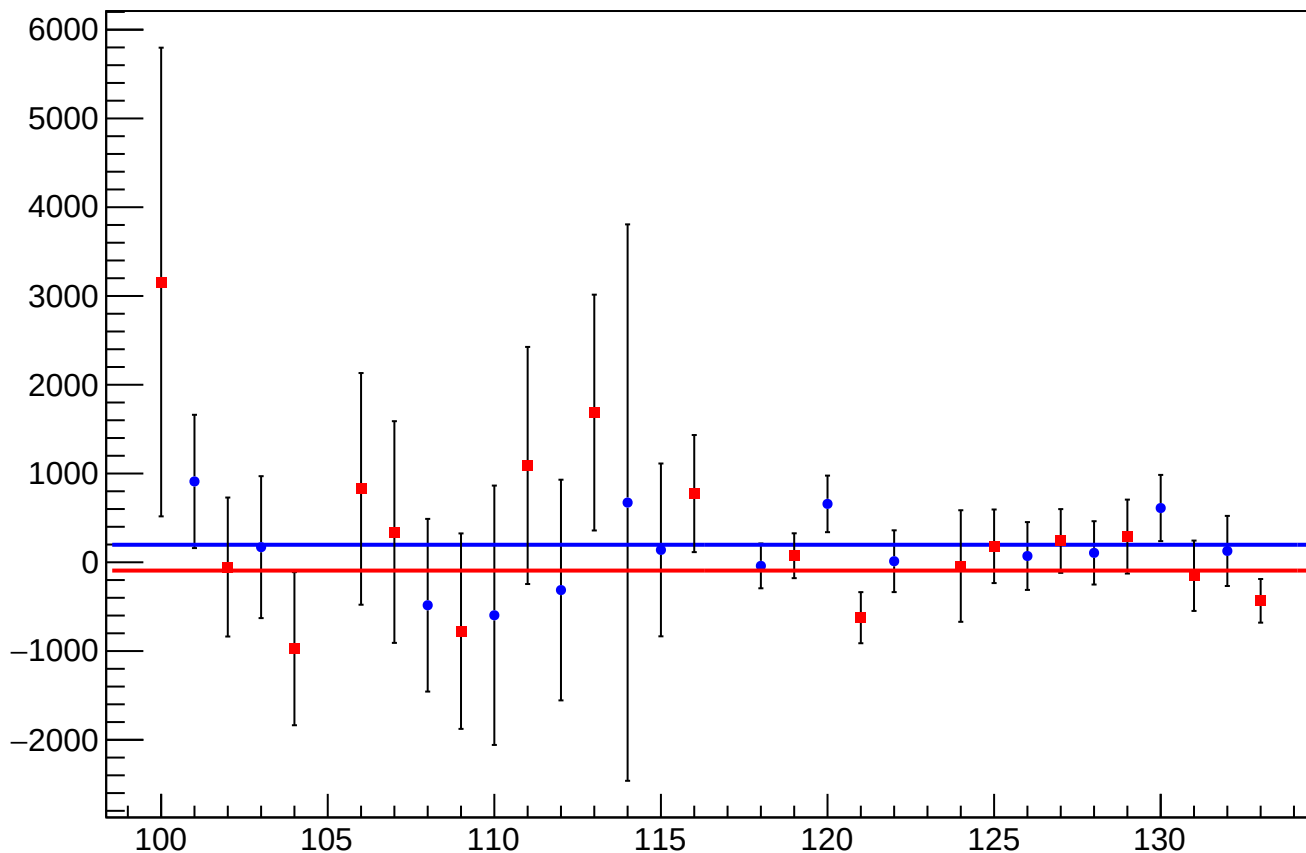
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 59.739 $\pm$ 0.012  $\chi^2$ /NDF: 2098722.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_reg\_correction\_mean vs Slug



Right In: 197.400 $\pm$ 120.576  $\chi^2$ /NDF: 6.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -93.337 $\pm$ 111.028  $\chi^2$ /NDF: 15.8/16

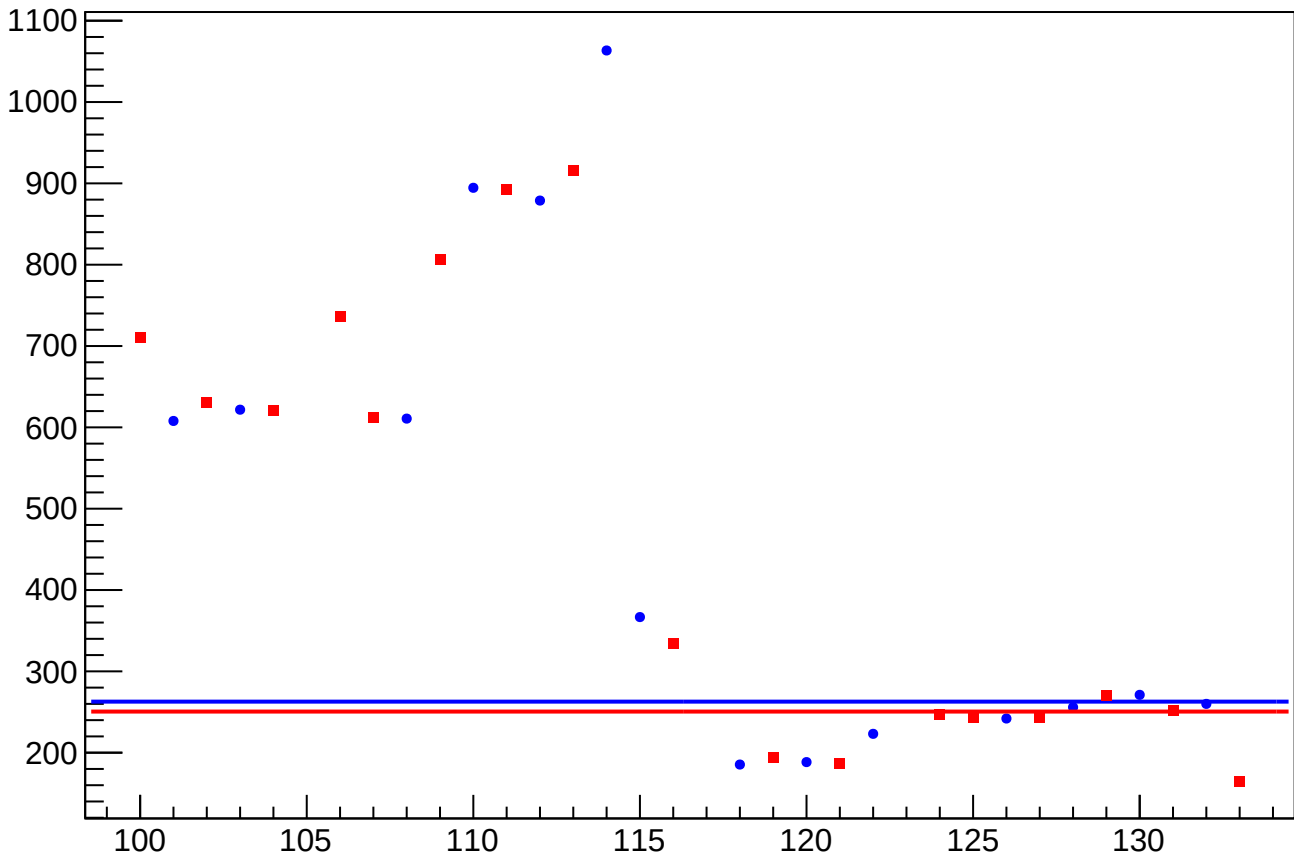
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 40.067 $\pm$ 81.676  $\chi^2$ /NDF: 25.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_reg\_correction\_rms vs Slug



Right In: 262.773 $\pm$ 0.085  $\chi^2$ /NDF: 2431033.7/13

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

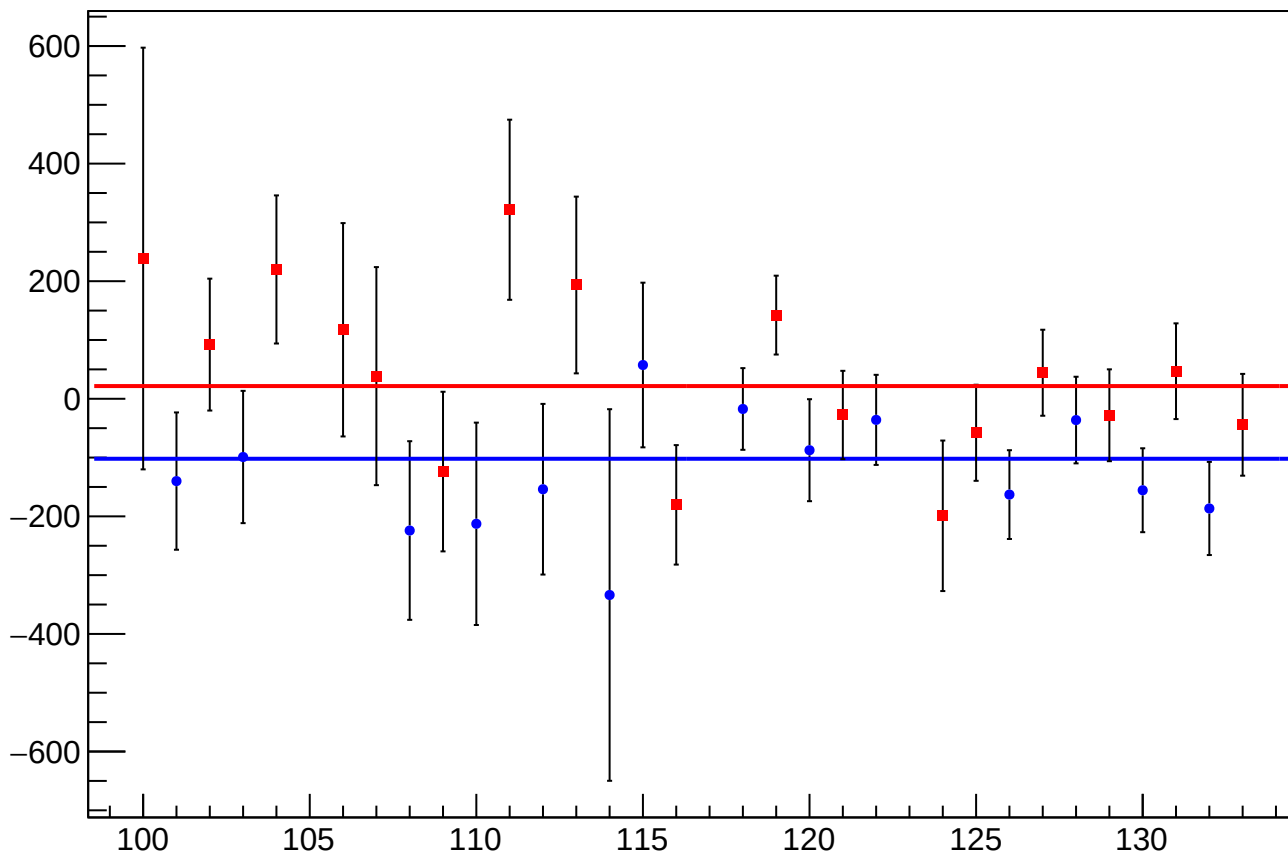
Right Out: 250.548 $\pm$ 0.079  $\chi^2$ /NDF: 3301197.8/16

All: 256.157 $\pm$ 0.058  $\chi^2$ /NDF: 5743357.7/30

- 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\_sam\_37\_26\_dd\_mean vs Slug



Right In: -102.036 $\pm$ 25.288  $\chi^2$ /NDF: 8.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.616 $\pm$ 24.303  $\chi^2$ /NDF: 22.5/16

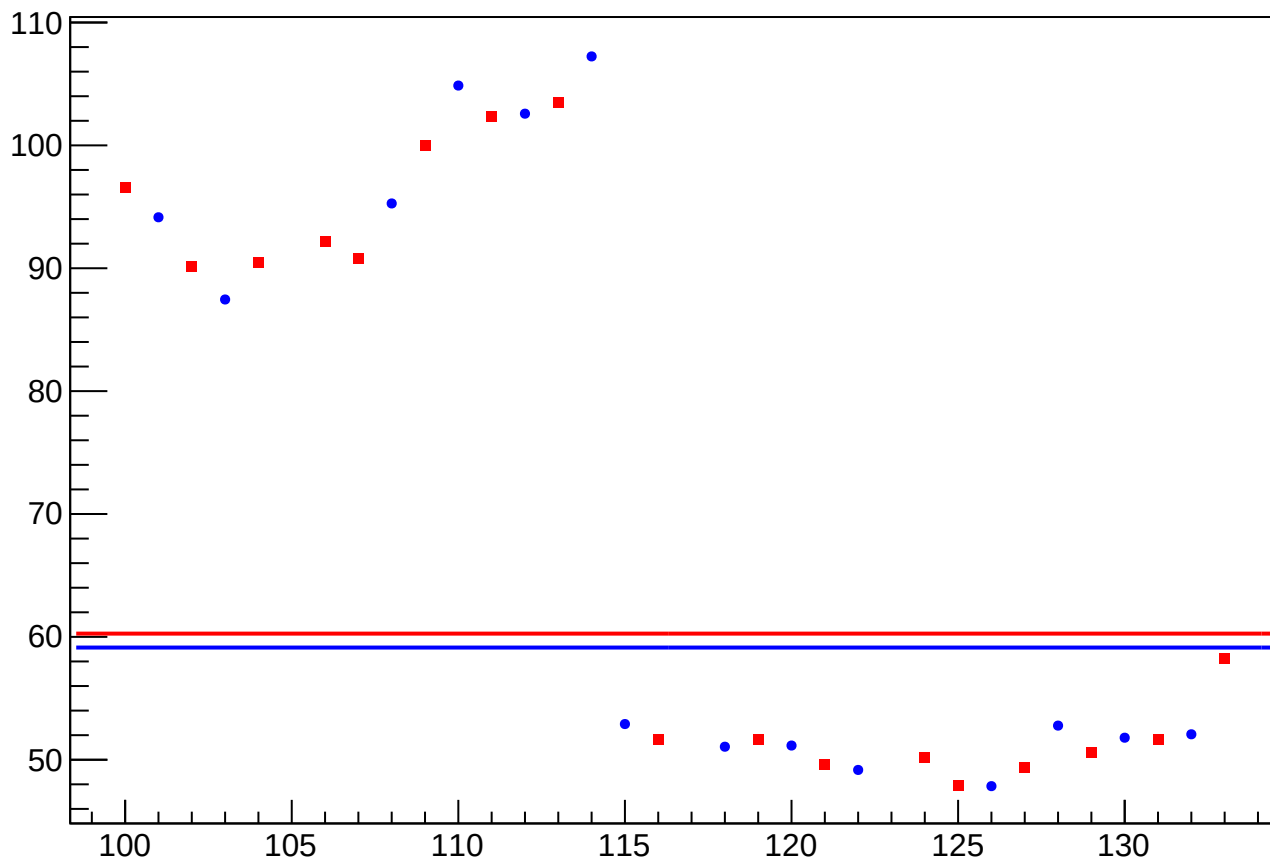
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -37.754 $\pm$ 17.523  $\chi^2$ /NDF: 43.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 59.132 $\pm$ 0.018  $\chi^2$ /NDF: 964811.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 60.265 $\pm$ 0.017  $\chi^2$ /NDF: 1124938.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

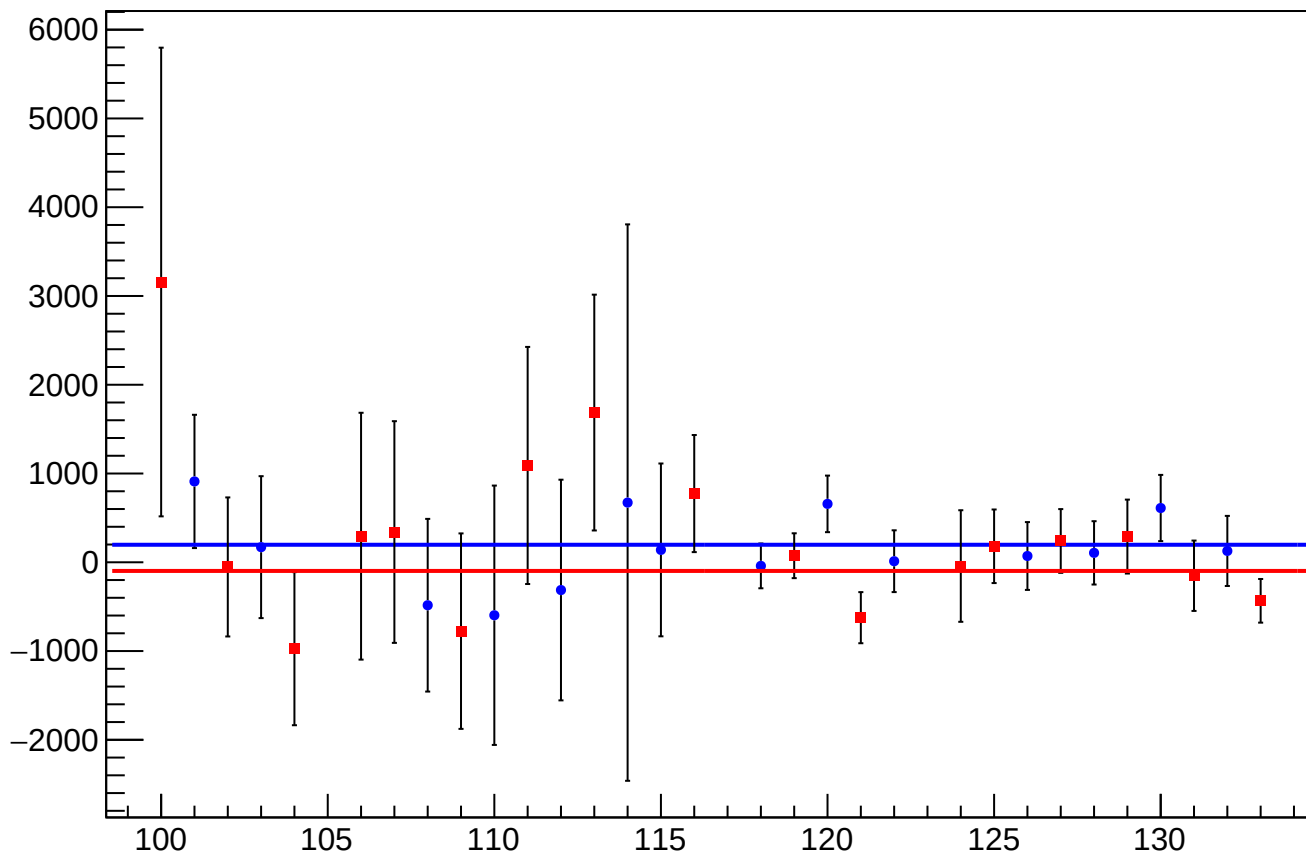
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 59.721 $\pm$ 0.012  $\chi^2$ /NDF: 2091840.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_37\_26\_dd\_cor\_correction\_mean vs Slug



Right In: 197.396 $\pm$ 120.576  $\chi^2$ /NDF: 6.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -97.509 $\pm$ 111.077  $\chi^2$ /NDF: 15.4/16

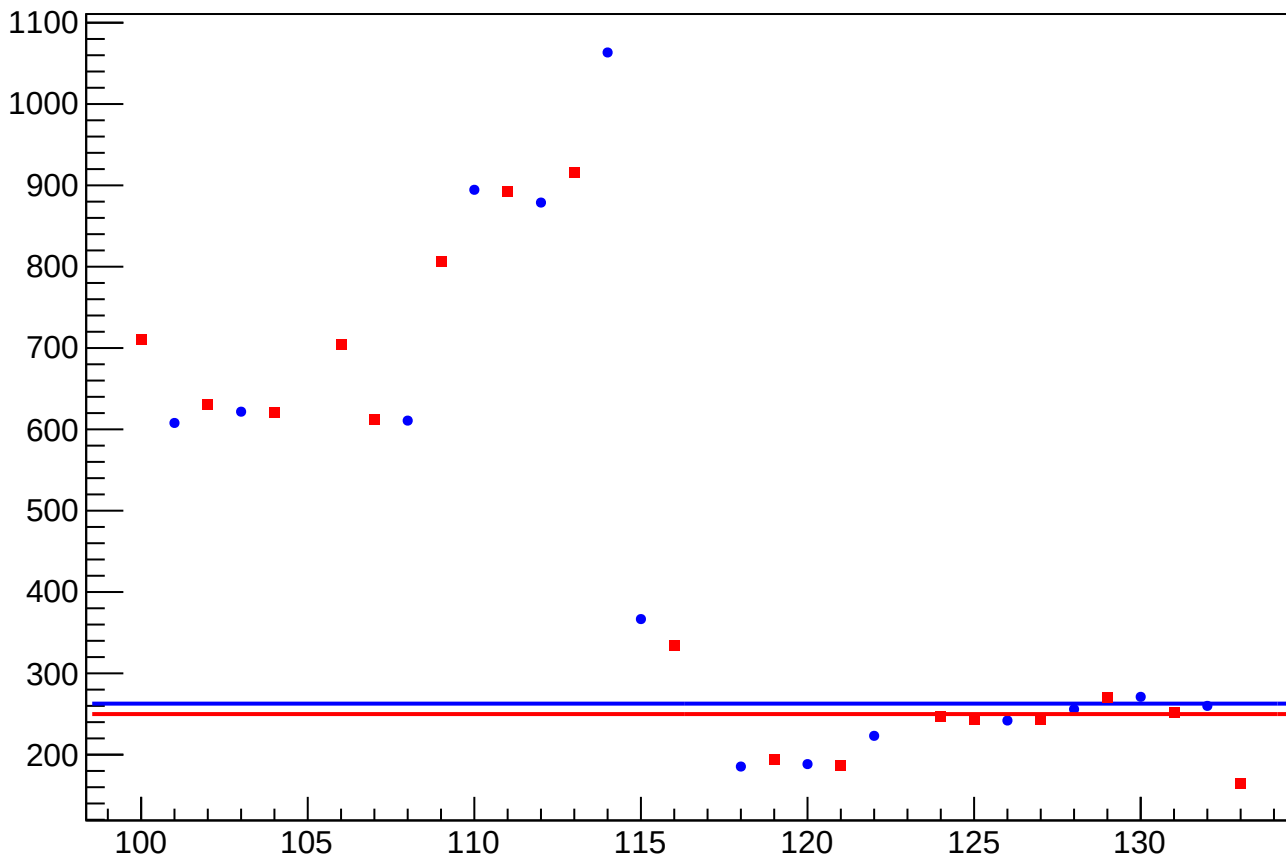
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.872 $\pm$ 81.695  $\chi^2$ /NDF: 25.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_cor\_correction\_rms vs Slug



Right In: 262.772 $\pm$ 0.085  $\chi^2$ /NDF: 2431050.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 249.924 $\pm$ 0.079  $\chi^2$ /NDF: 3237249.9/16

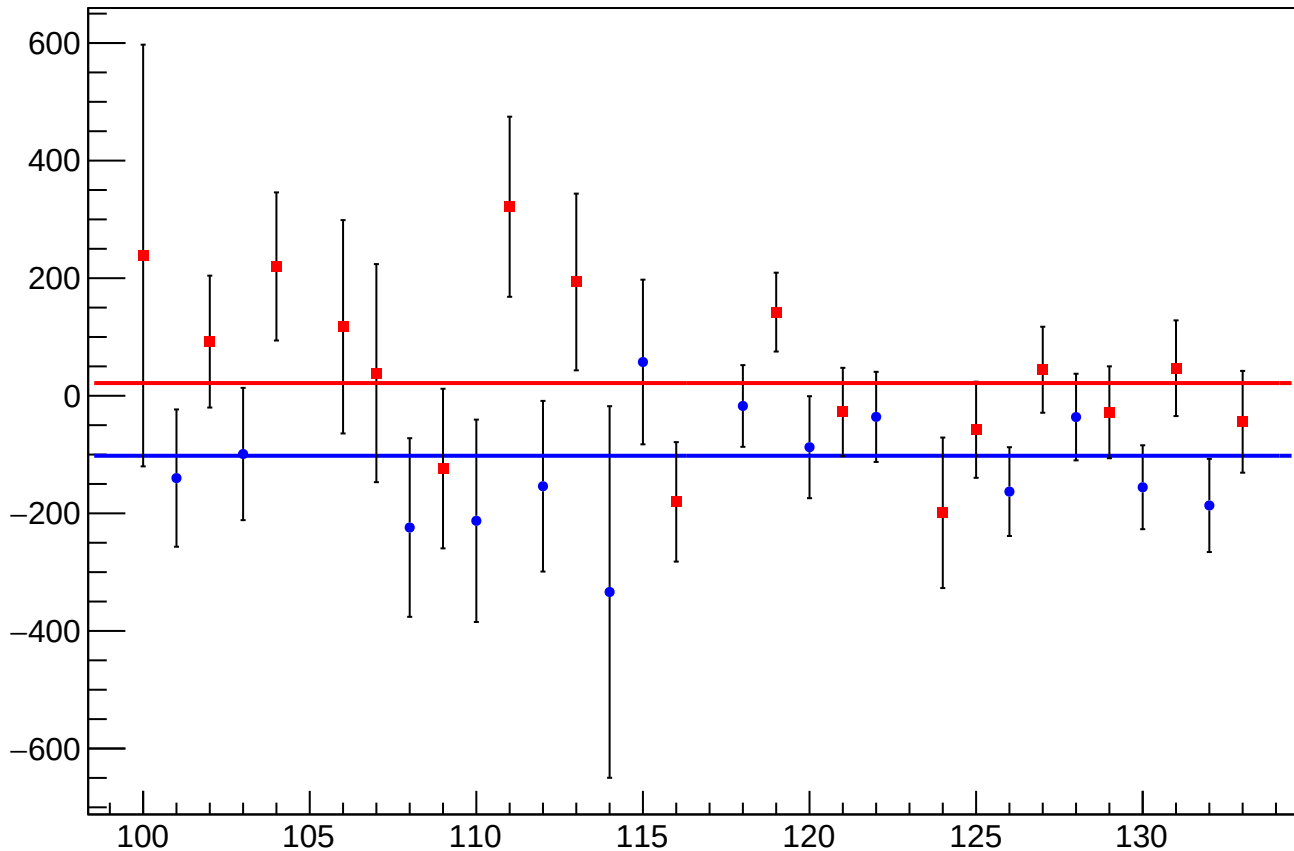
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 255.822 $\pm$ 0.058  $\chi^2$ /NDF: 5680585.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_cor\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: -102.036 $\pm$ 25.288  $\chi^2/\text{NDF}$ : 8.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.616 $\pm$ 24.303  $\chi^2/\text{NDF}$ : 22.5/16

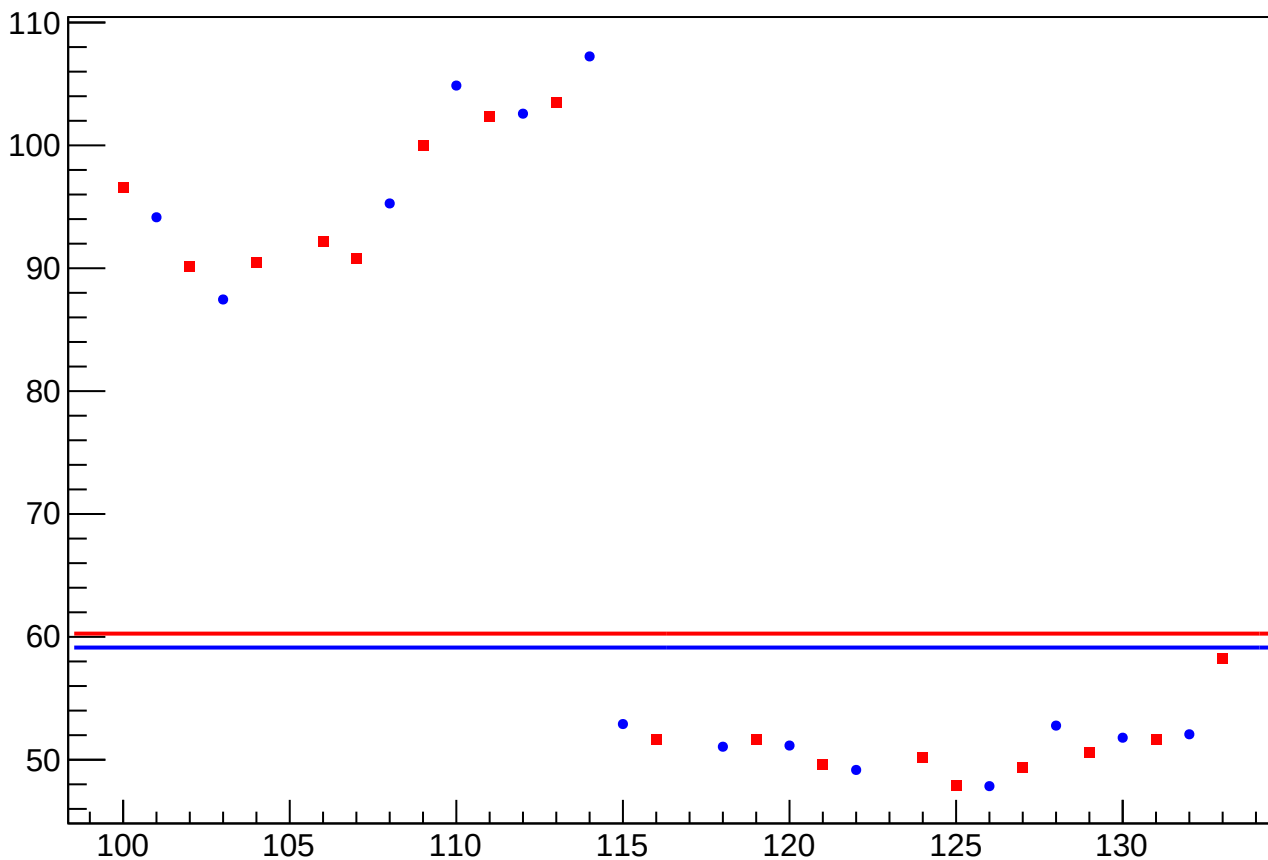
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -37.754 $\pm$ 17.523  $\chi^2/\text{NDF}$ : 43.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 59.132 $\pm$ 0.018  $\chi^2$ /NDF: 964811.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 60.265 $\pm$ 0.017  $\chi^2$ /NDF: 1124938.9/16

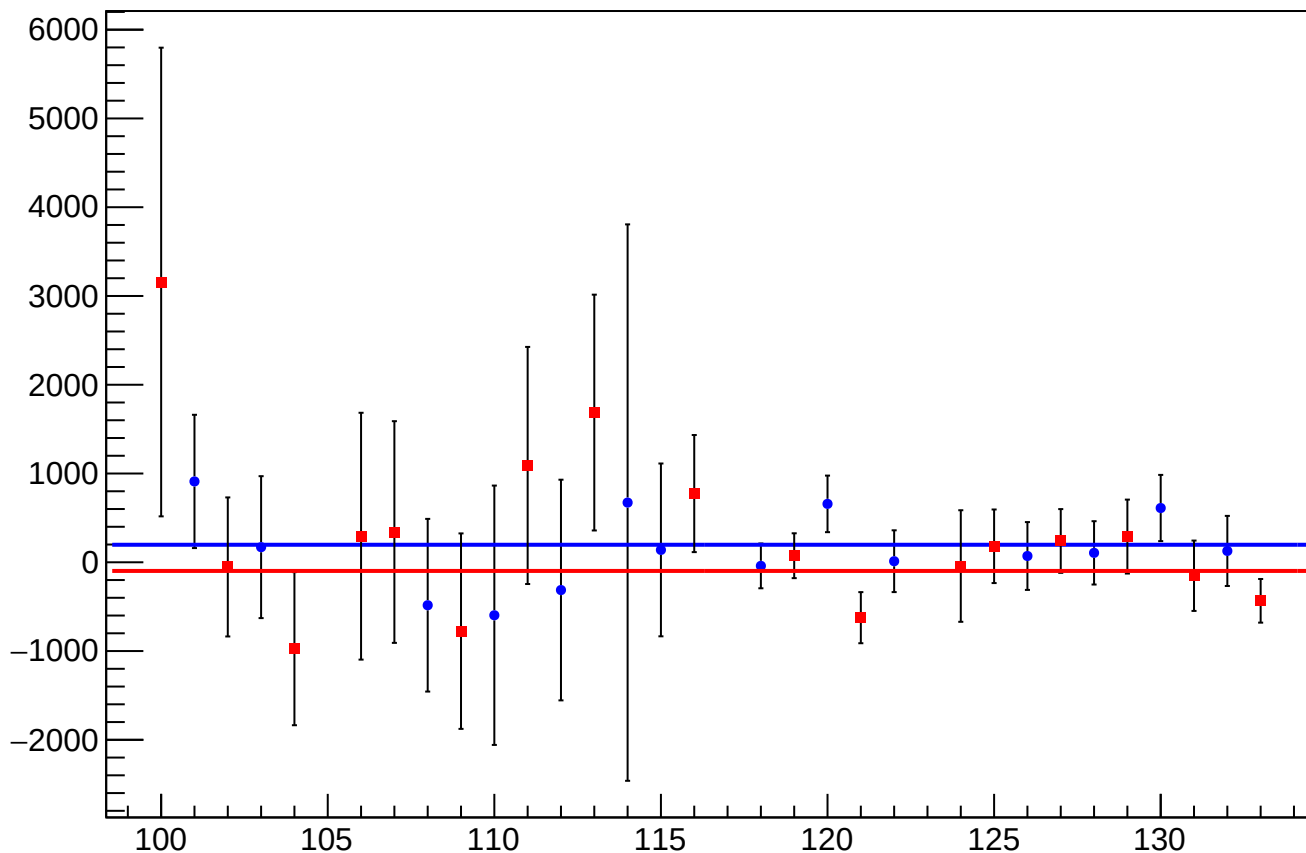
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 59.721 $\pm$ 0.012  $\chi^2$ /NDF: 2091840.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_cor\_correction\_mean vs Slug



Right In: 197.396 $\pm$ 120.576  $\chi^2$ /NDF: 6.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -97.509 $\pm$ 111.077  $\chi^2$ /NDF: 15.4/16

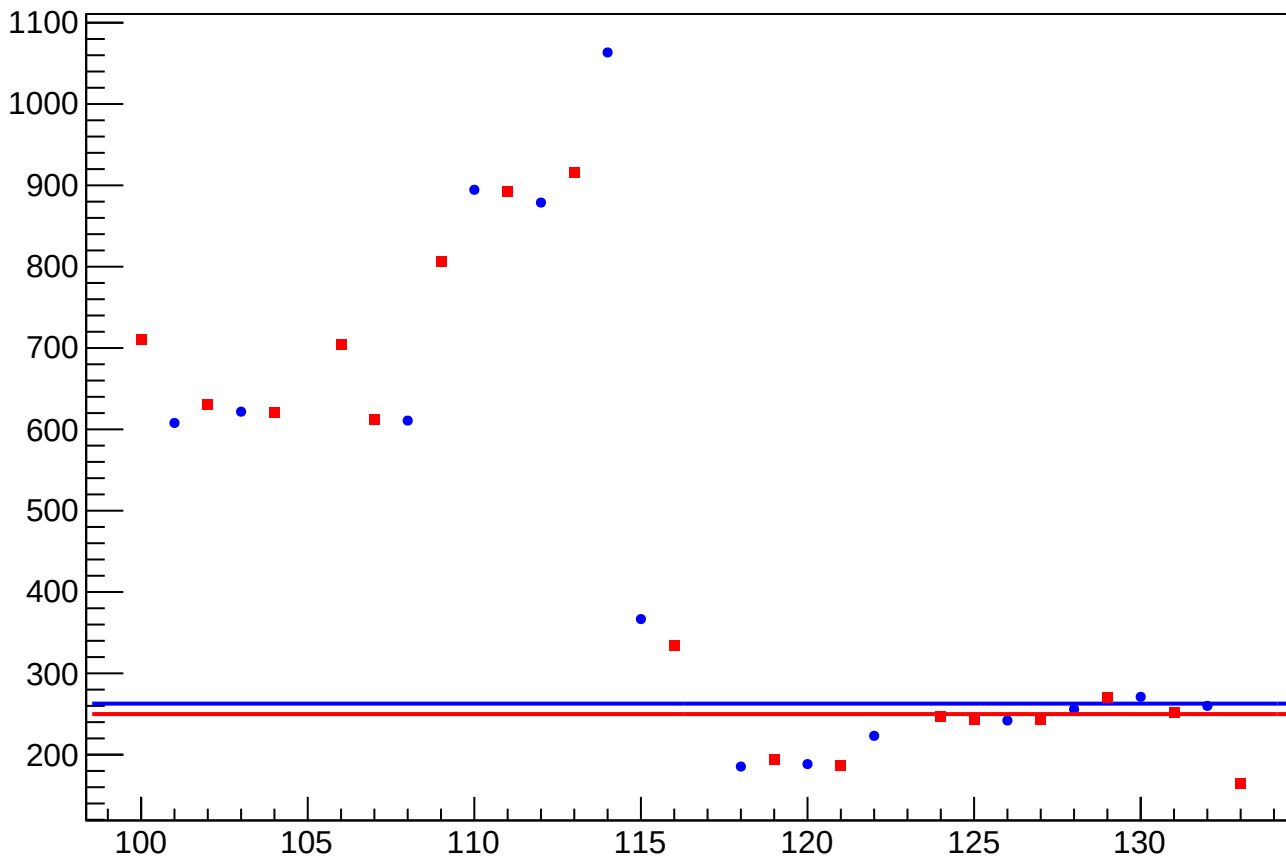
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.872 $\pm$ 81.695  $\chi^2$ /NDF: 25.2/30

- 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: 262.772+/-0.085  $\chi^2/\text{NDF}$ : 2431050.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 249.924+/-0.079  $\chi^2/\text{NDF}$ : 3237249.9/16

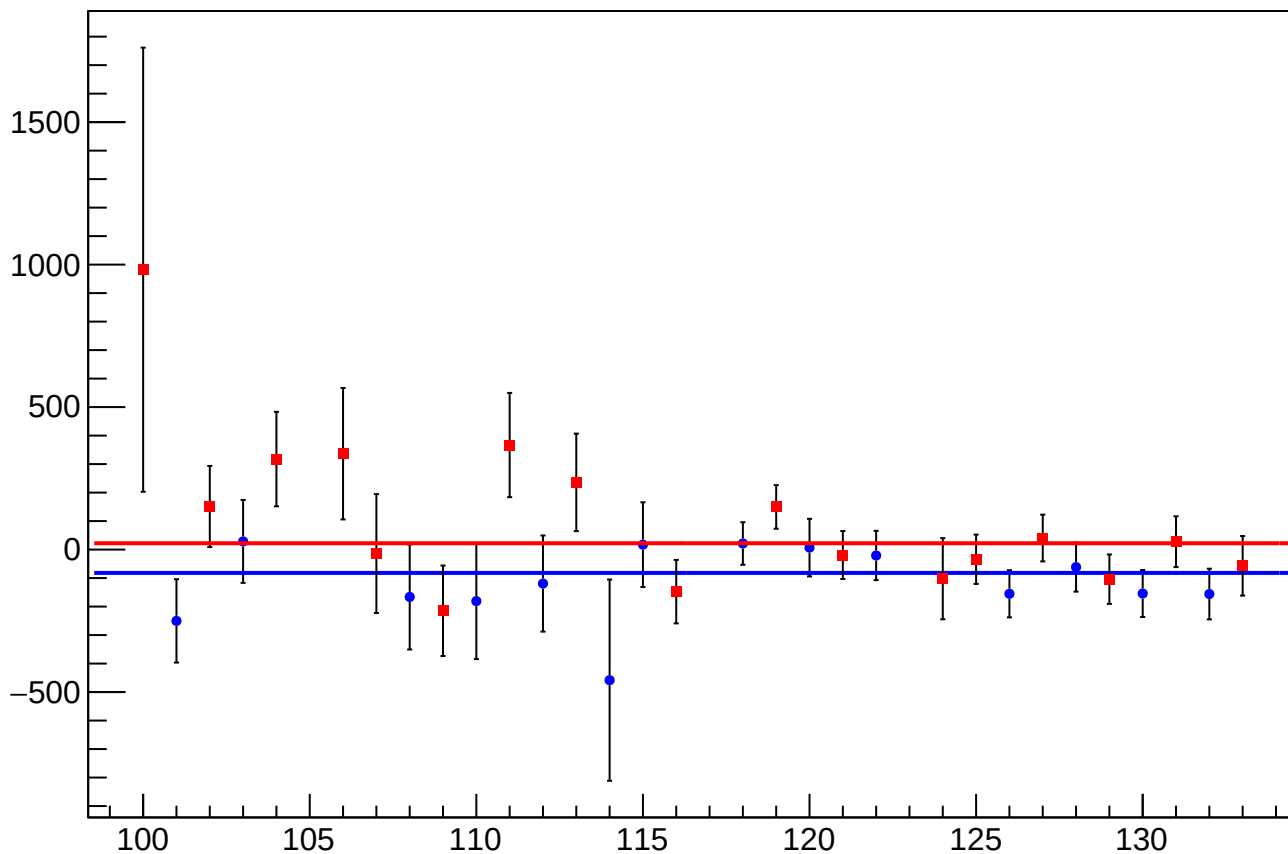
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 255.822+/-0.058  $\chi^2/\text{NDF}$ : 5680585.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: -81.865 $\pm$ 28.849  $\chi^2$ /NDF: 9.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.189 $\pm$ 27.661  $\chi^2$ /NDF: 24.0/16

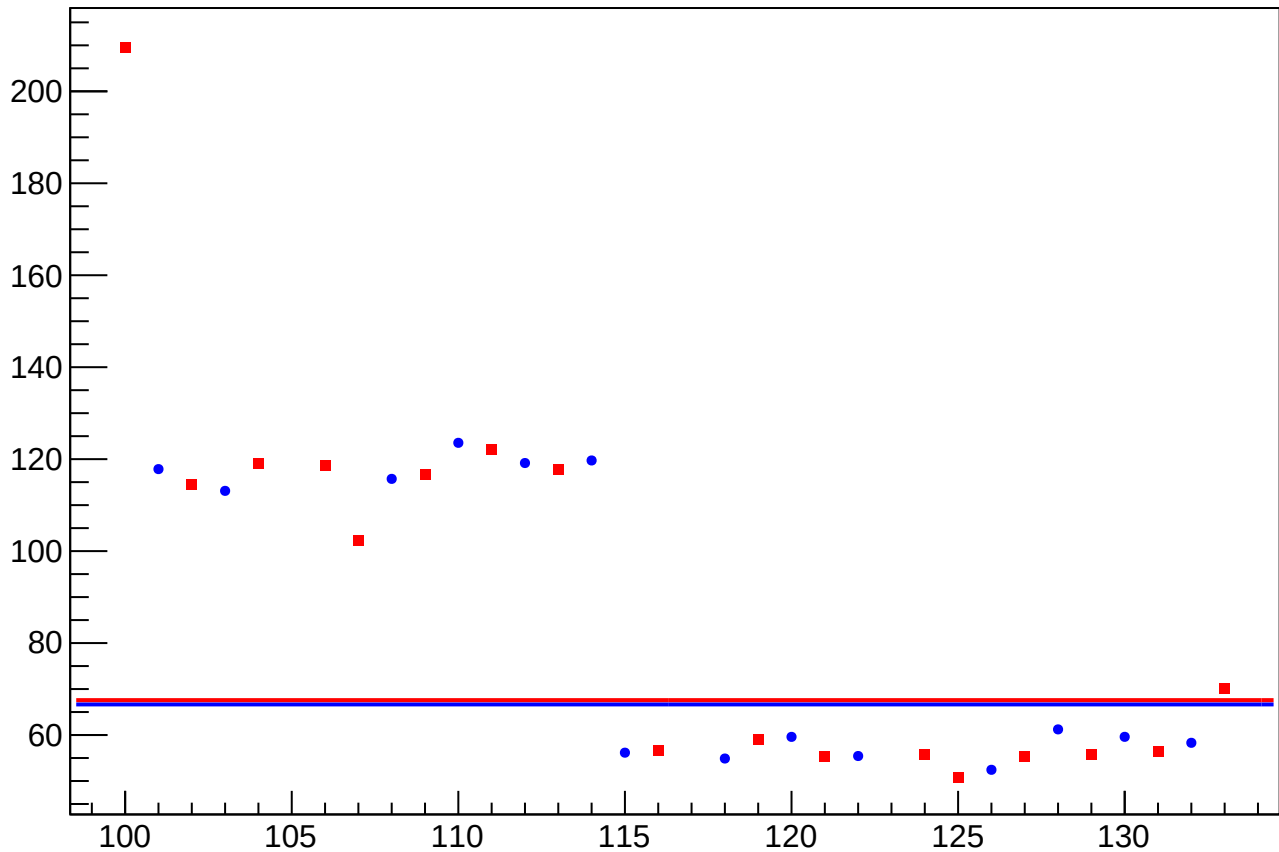
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -27.650 $\pm$ 19.966  $\chi^2$ /NDF: 40.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 66.657+/-0.020  $\chi^2/\text{NDF}$ : 1188005.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 67.589+/-0.020  $\chi^2/\text{NDF}$ : 1461818.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

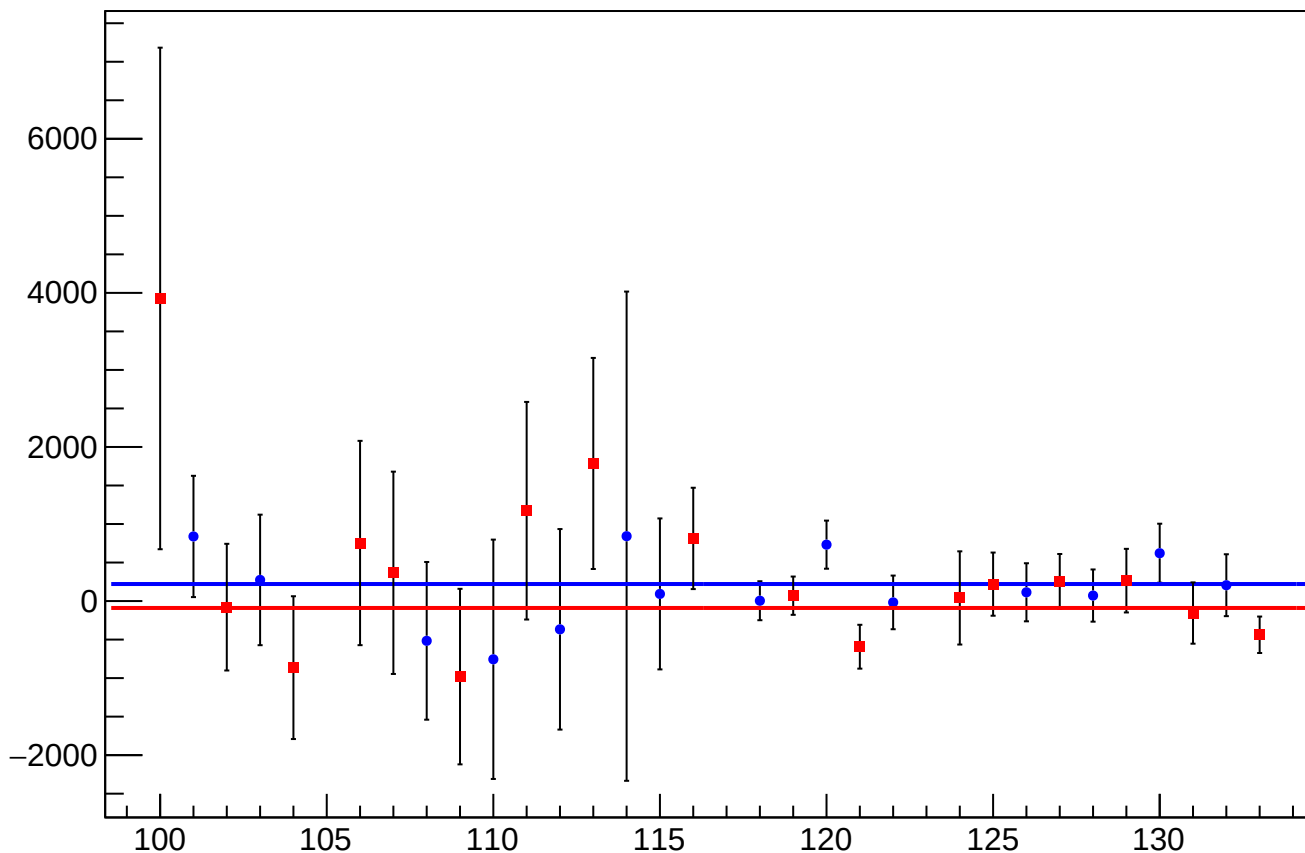
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.143+/-0.014  $\chi^2/\text{NDF}$ : 2650910.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_37\_26\_dd\_dit\_correction\_mean vs Slug



Right In:  $221.132 \pm 120.370$   $\chi^2/\text{NDF}$ : 7.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-89.624 \pm 109.645$   $\chi^2/\text{NDF}$ : 15.9/16

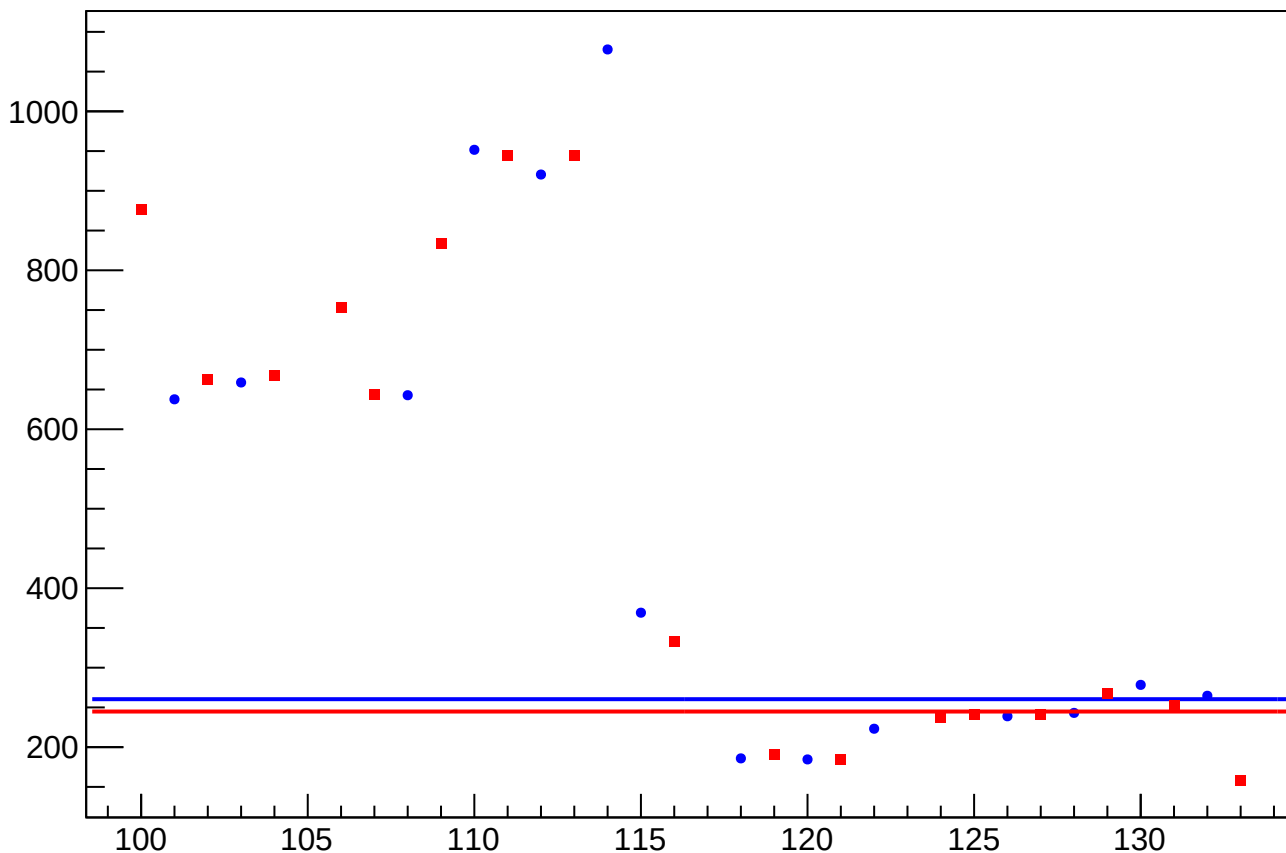
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $51.296 \pm 81.058$   $\chi^2/\text{NDF}$ : 26.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_26\_dd\_dit\_correction\_rms vs Slug



Right In: 260.354+/-0.085  $\chi^2/\text{NDF}$ : 2579609.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 244.825+/-0.078  $\chi^2/\text{NDF}$ : 3528874.8/16

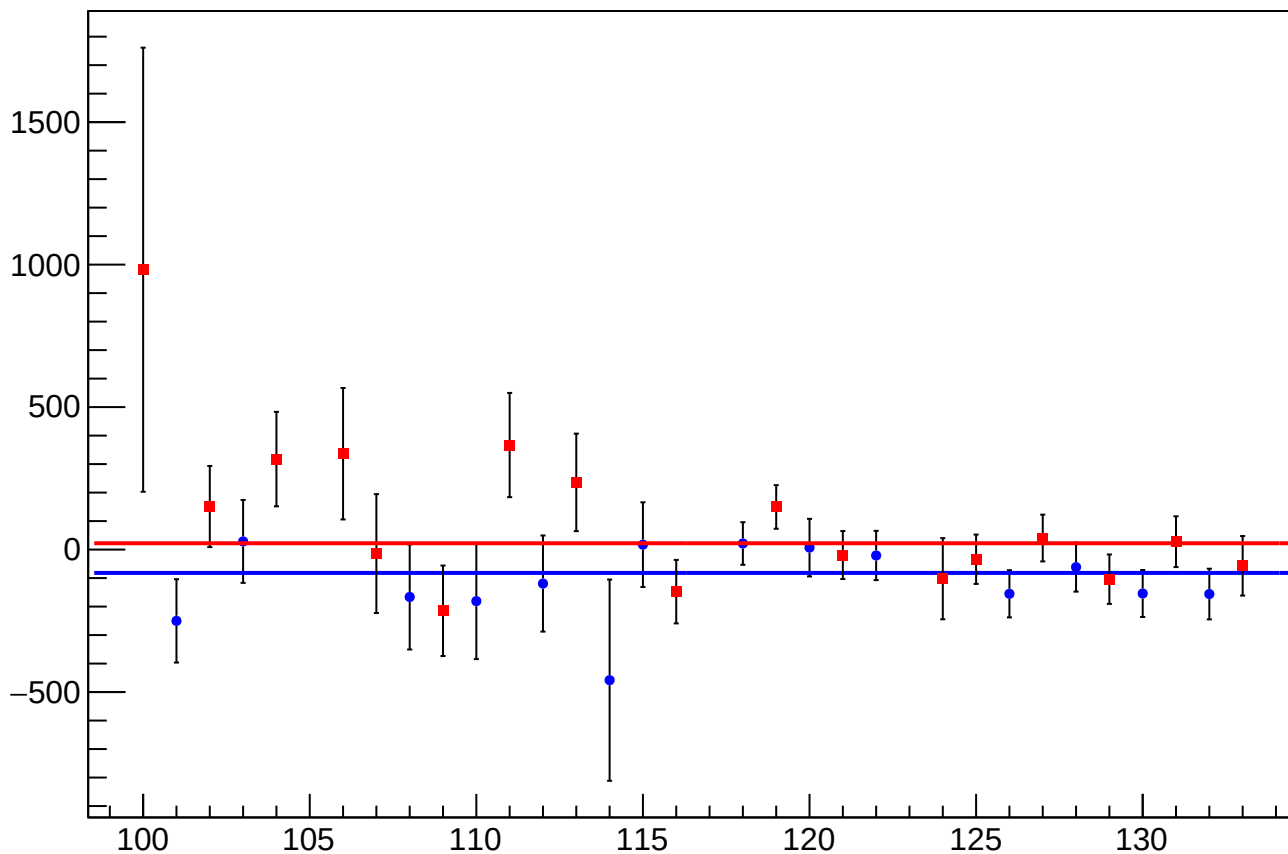
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 251.867+/-0.057  $\chi^2/\text{NDF}$ : 6126675.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: -81.866 $\pm$ 28.849  $\chi^2$ /NDF: 9.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.193 $\pm$ 27.660  $\chi^2$ /NDF: 24.0/16

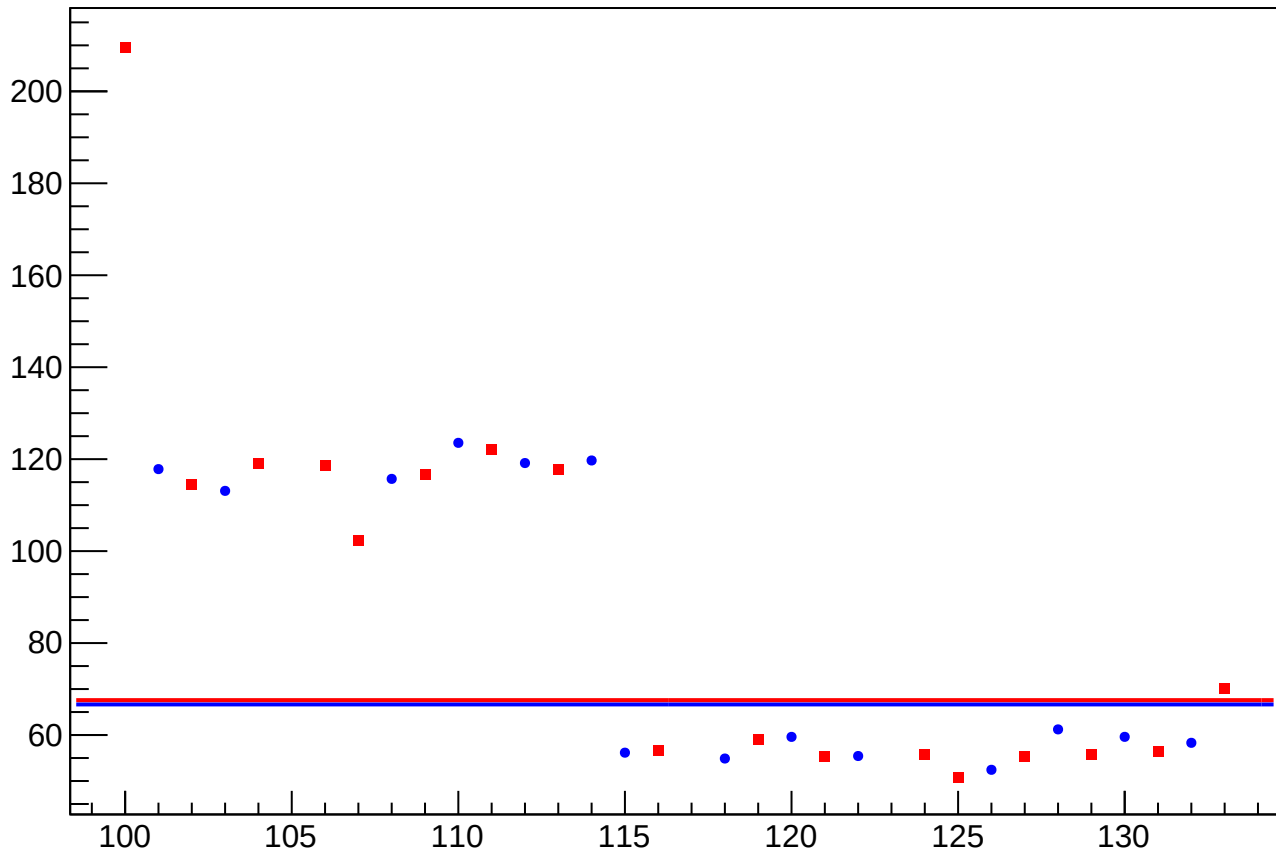
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -27.649 $\pm$ 19.966  $\chi^2$ /NDF: 40.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 66.656+/-0.020  $\chi^2/\text{NDF}$ : 1188006.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 67.589+/-0.020  $\chi^2/\text{NDF}$ : 1461804.7/16

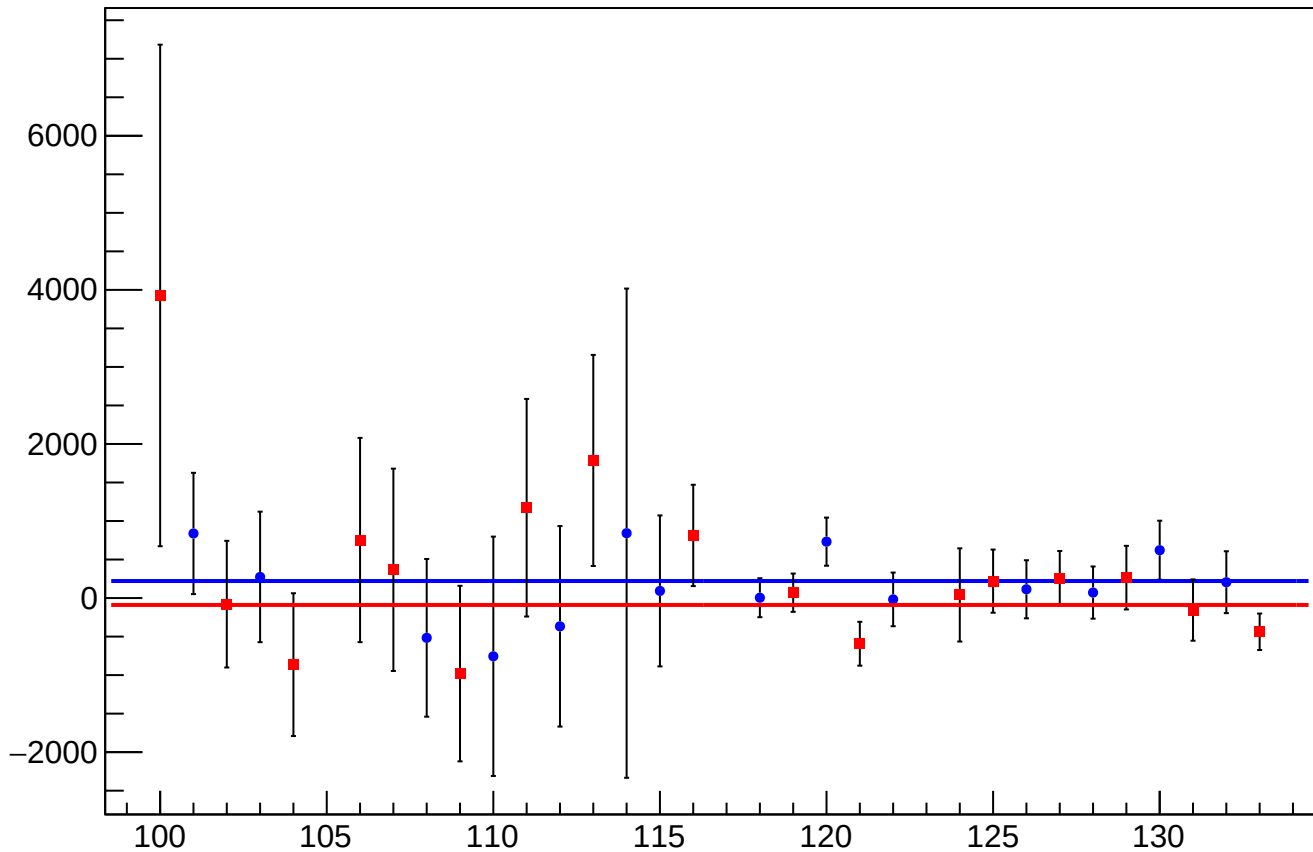
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.142+/-0.014  $\chi^2/\text{NDF}$ : 2650898.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_dit\_correction\_mean vs Slug



Right In: 221.131 $\pm$ 120.370  $\chi^2$ /NDF: 7.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -89.621 $\pm$ 109.645  $\chi^2$ /NDF: 15.9/16

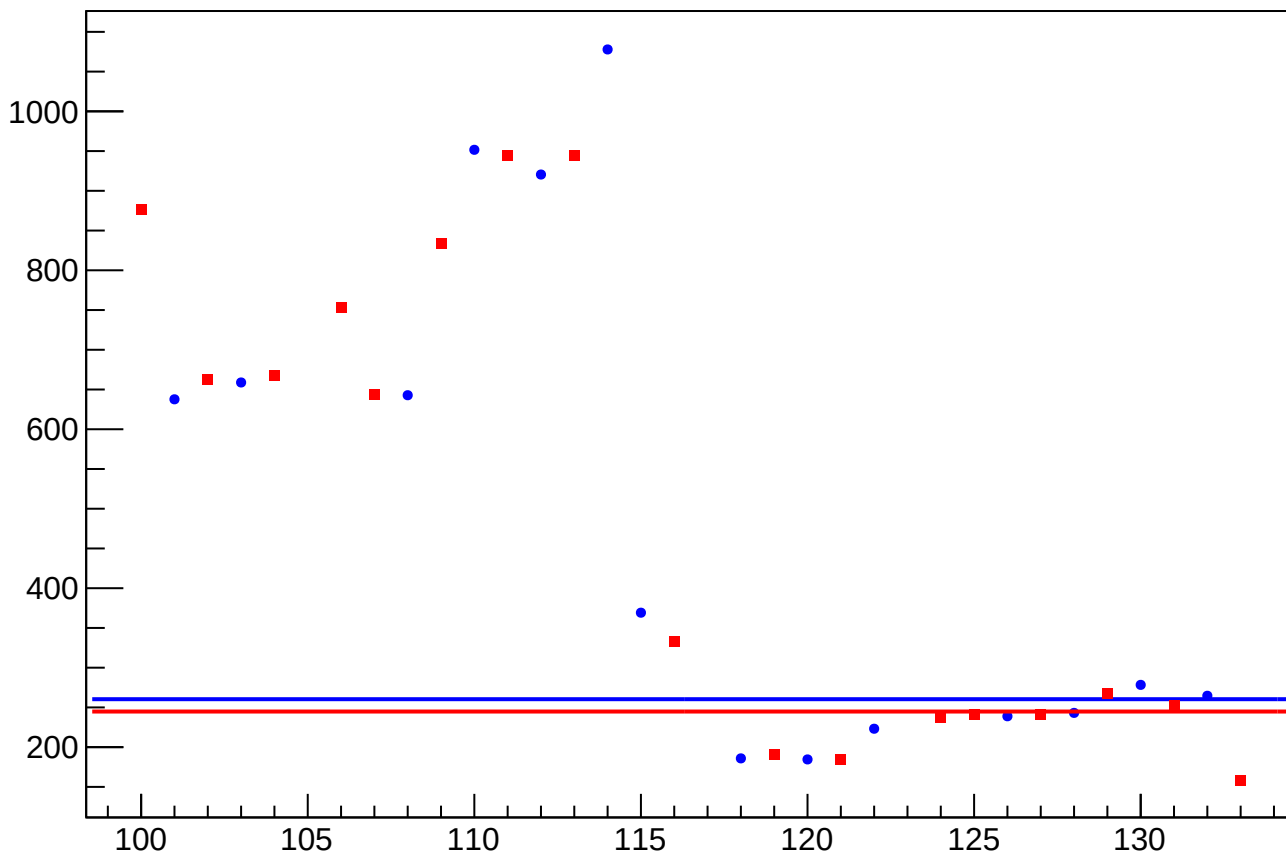
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 51.298 $\pm$ 81.058  $\chi^2$ /NDF: 26.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_37\_26\_dd\_eigen\_dit\_correction\_rms vs Slug



Right In: 260.353+/-0.085  $\chi^2/\text{NDF}$ : 2579603.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 244.826+/-0.078  $\chi^2/\text{NDF}$ : 3528850.4/16

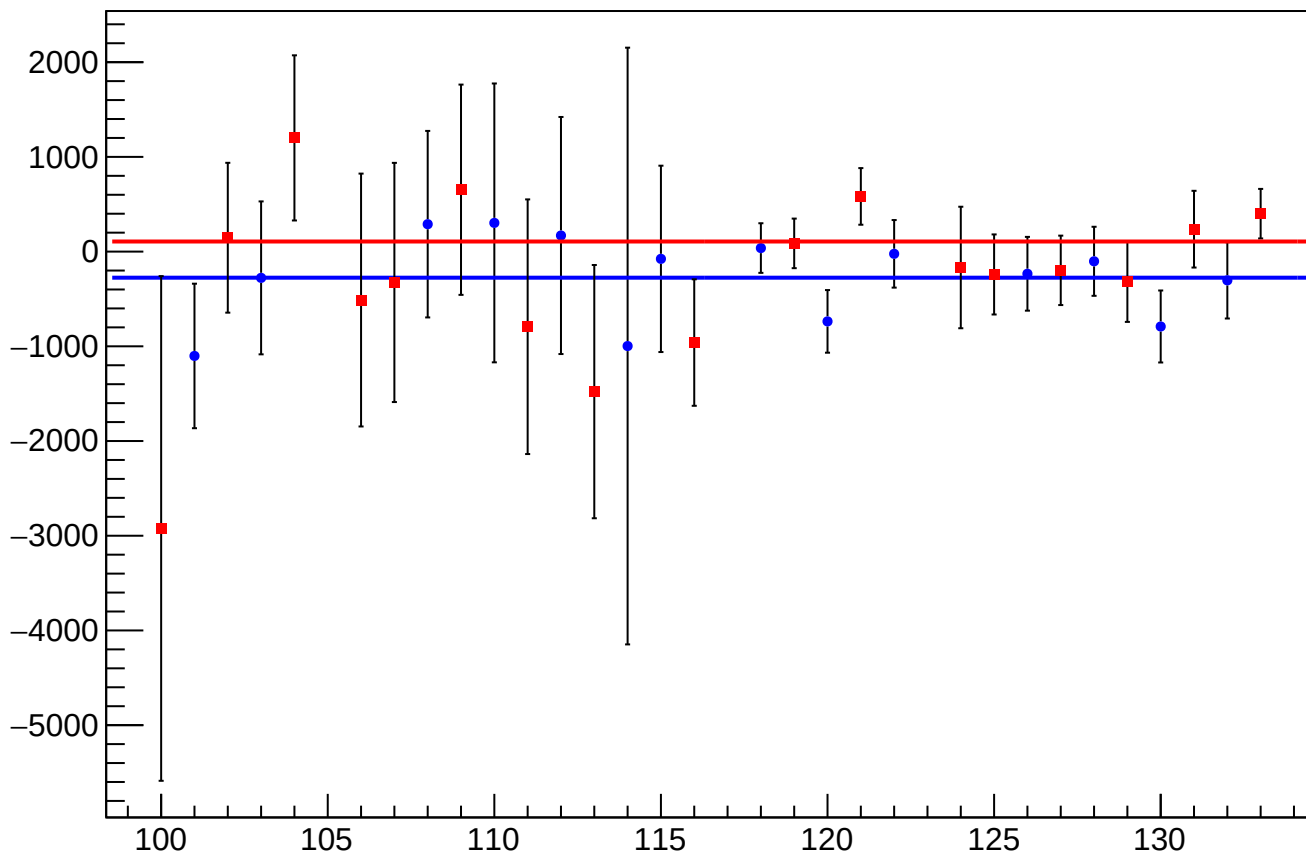
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 251.867+/-0.057  $\chi^2/\text{NDF}$ : 6126642.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_26\_dd\_mean vs Slug



Right In:  $-275.439 \pm 123.749$   $\chi^2/\text{NDF}$ : 7.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $106.590 \pm 114.756$   $\chi^2/\text{NDF}$ : 14.3/16

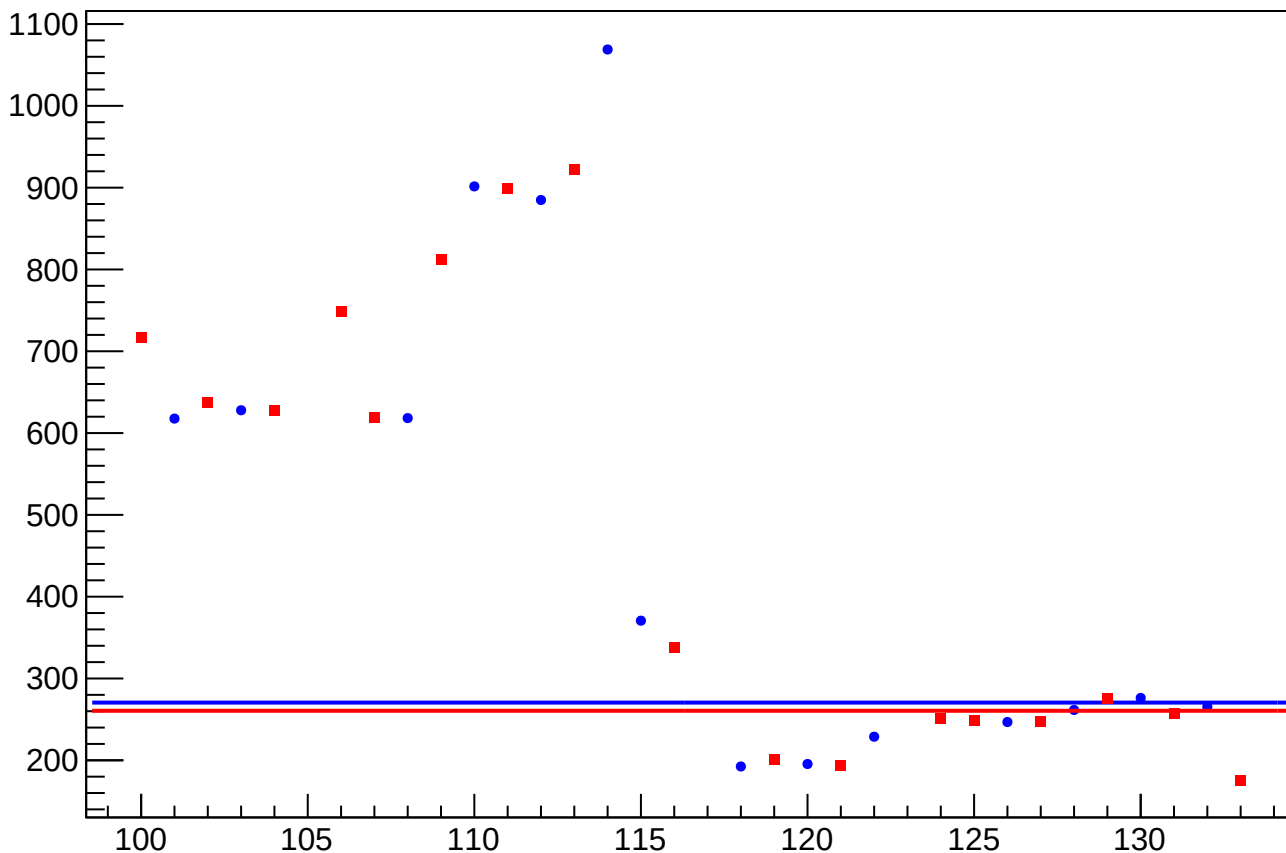
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-70.039 \pm 84.145$   $\chi^2/\text{NDF}$ : 27.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 270.550+/-0.088  $\chi^2/\text{NDF}$ : 2371785.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 260.531+/-0.081  $\chi^2/\text{NDF}$ : 3178779.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

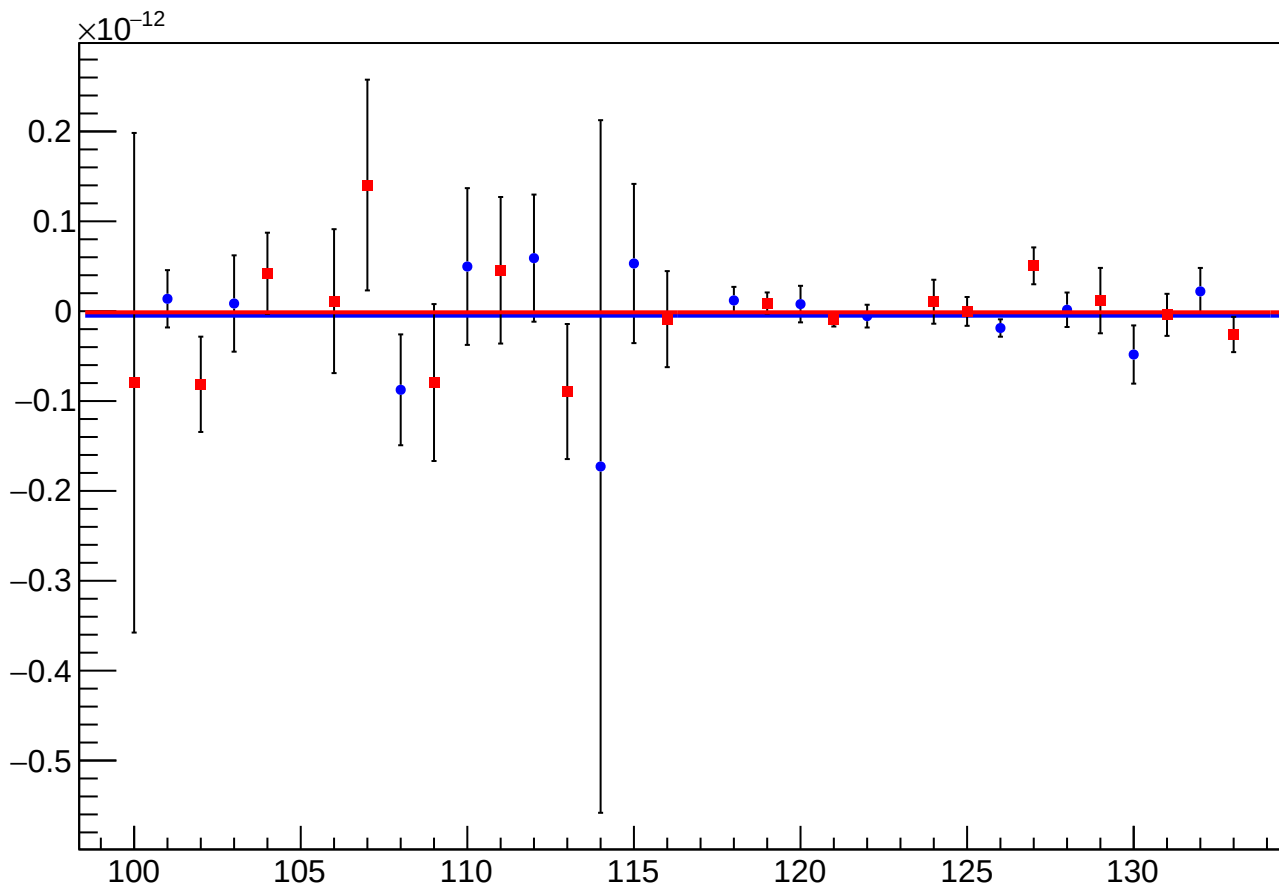
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 265.163+/-0.059  $\chi^2/\text{NDF}$ : 5557614.8/30

- 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: 10.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 17.6/16

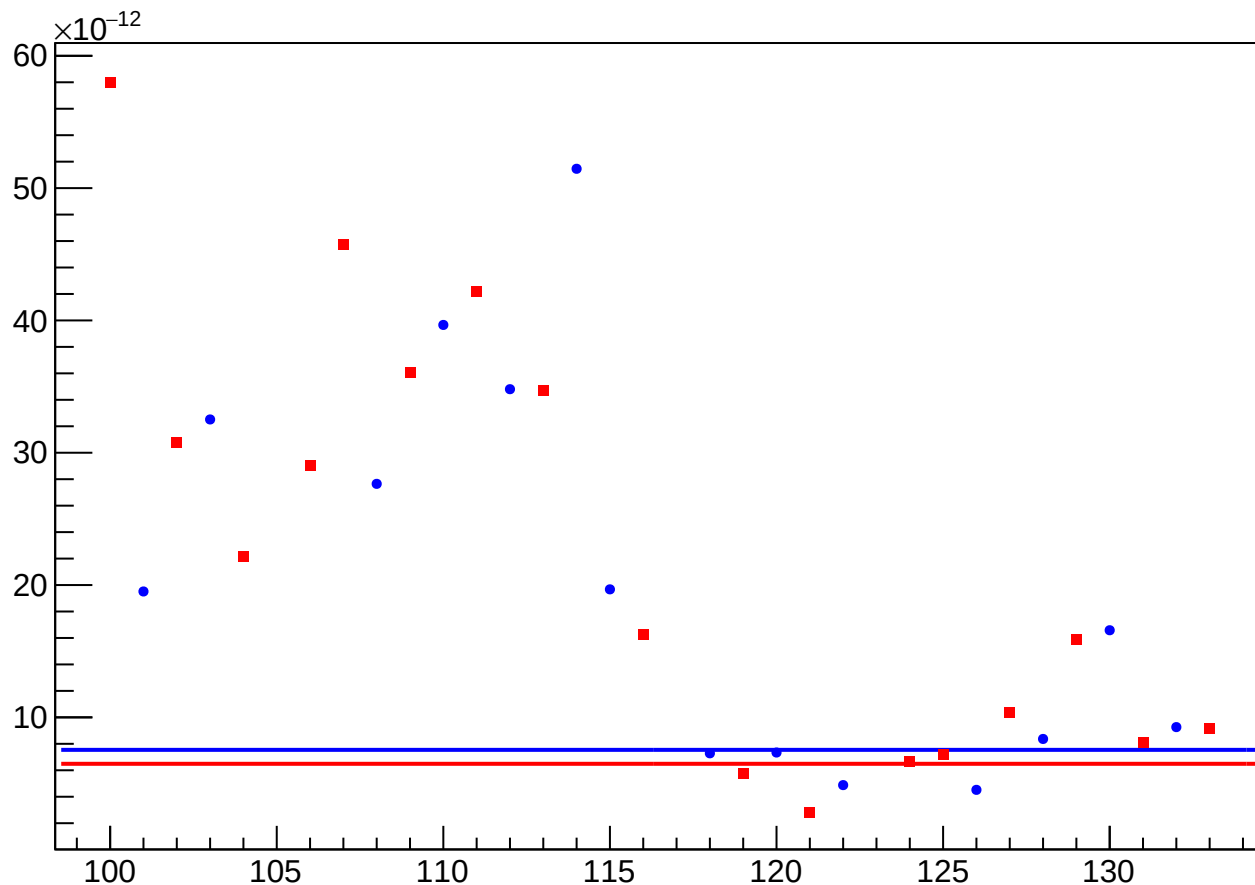
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 28.5/30

- 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  $\chi^2/\text{NDF}$ : 2013209.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2813744.1/16

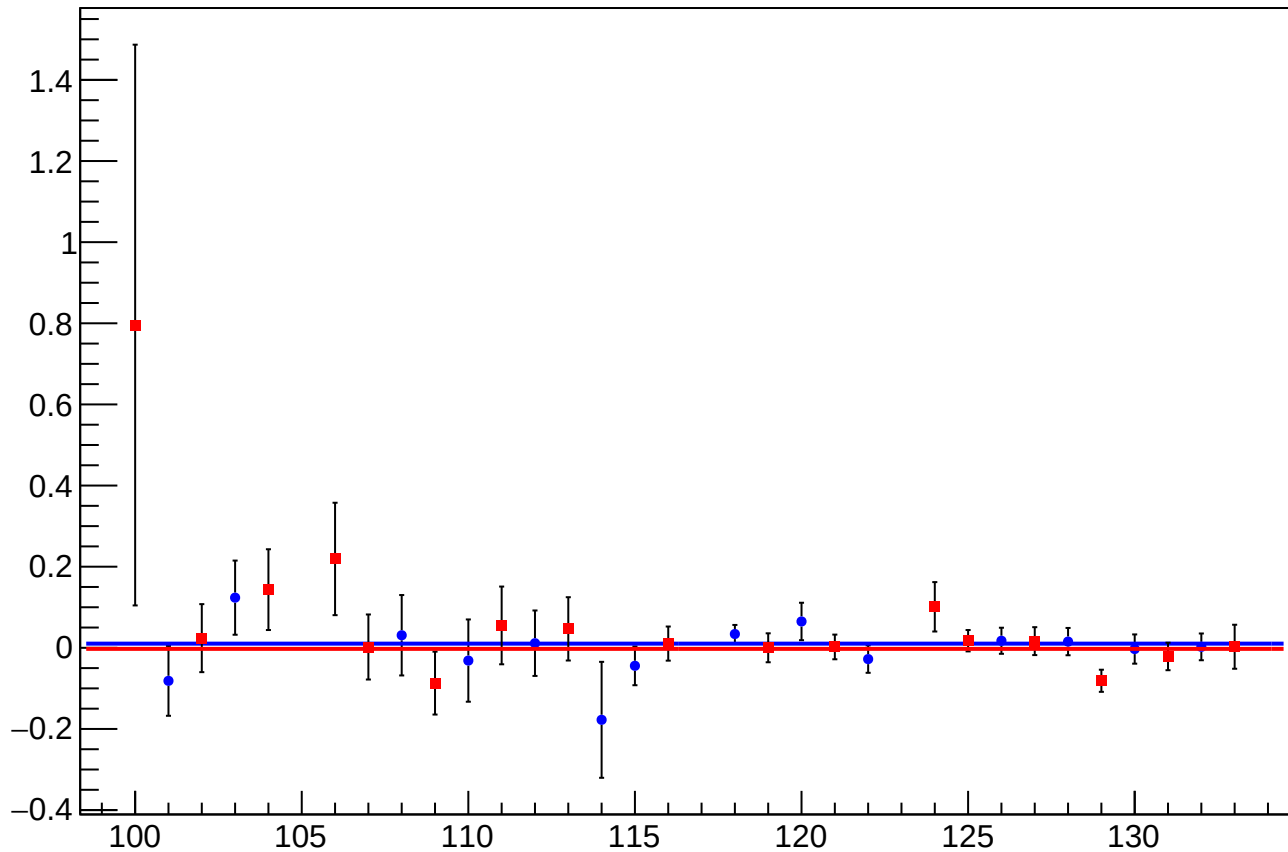
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4865649.0/30

- 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: 0.010 $\pm$ 0.011  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.003 $\pm$ 0.011  $\chi^2$ /NDF: 20.7/16

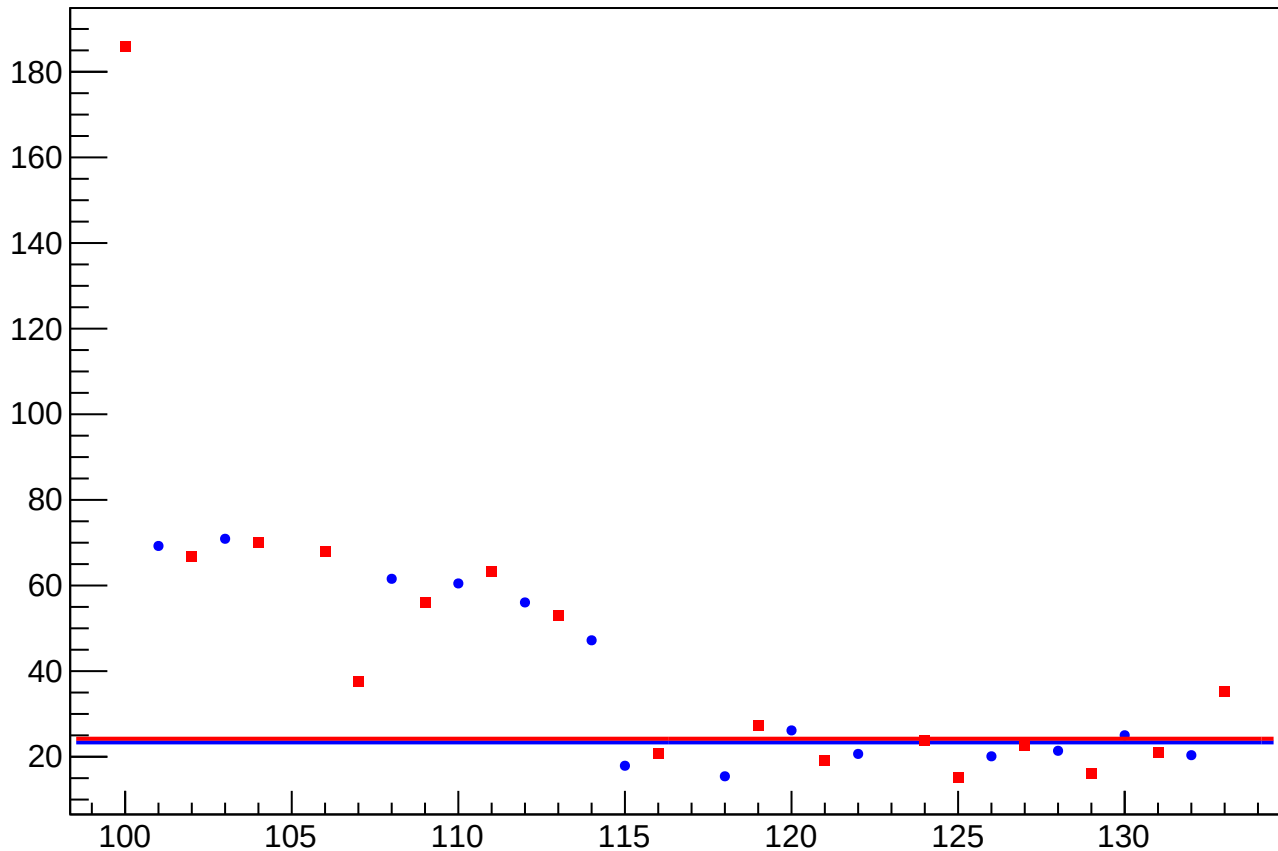
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.008  $\chi^2$ /NDF: 31.3/30

- 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: 23.352+/-0.008  $\chi^2/\text{NDF}$ : 2403408.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 24.217+/-0.008  $\chi^2/\text{NDF}$ : 2846839.3/16

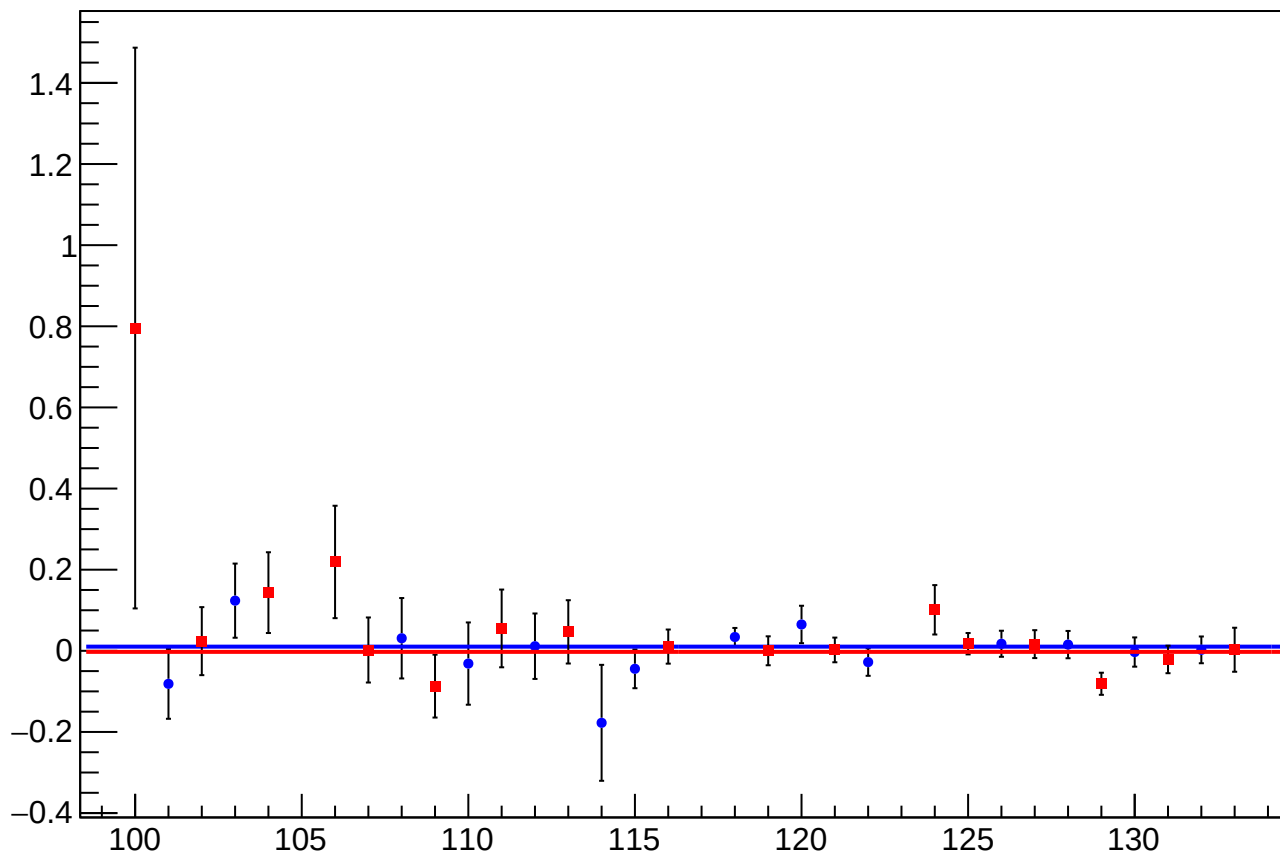
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.797+/-0.006  $\chi^2/\text{NDF}$ : 5256385.0/30

- 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: 0.010 $\pm$ 0.011  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.003 $\pm$ 0.011  $\chi^2$ /NDF: 20.7/16

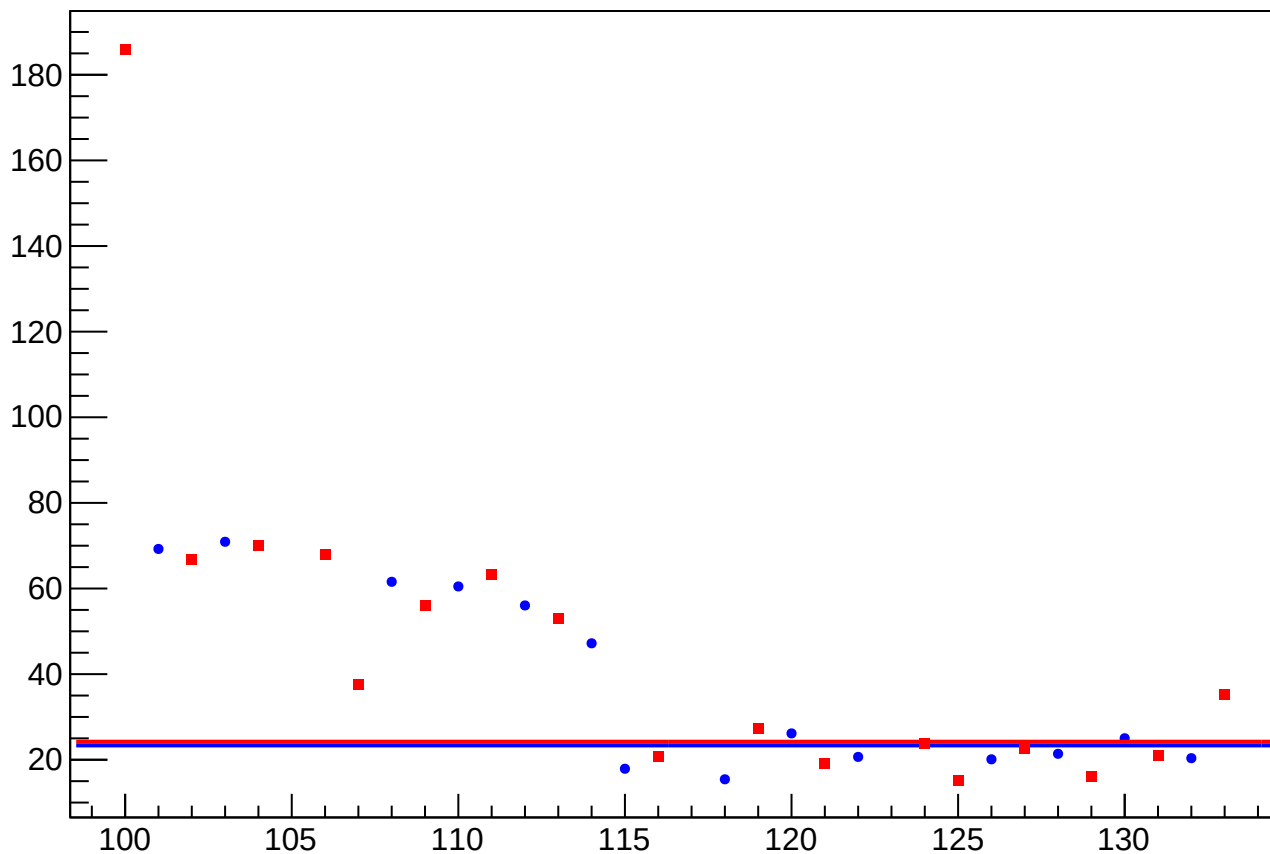
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.008  $\chi^2$ /NDF: 31.3/30

- 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: 23.352+/-0.008  $\chi^2/\text{NDF}$ : 2403408.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 24.217+/-0.008  $\chi^2/\text{NDF}$ : 2846839.3/16

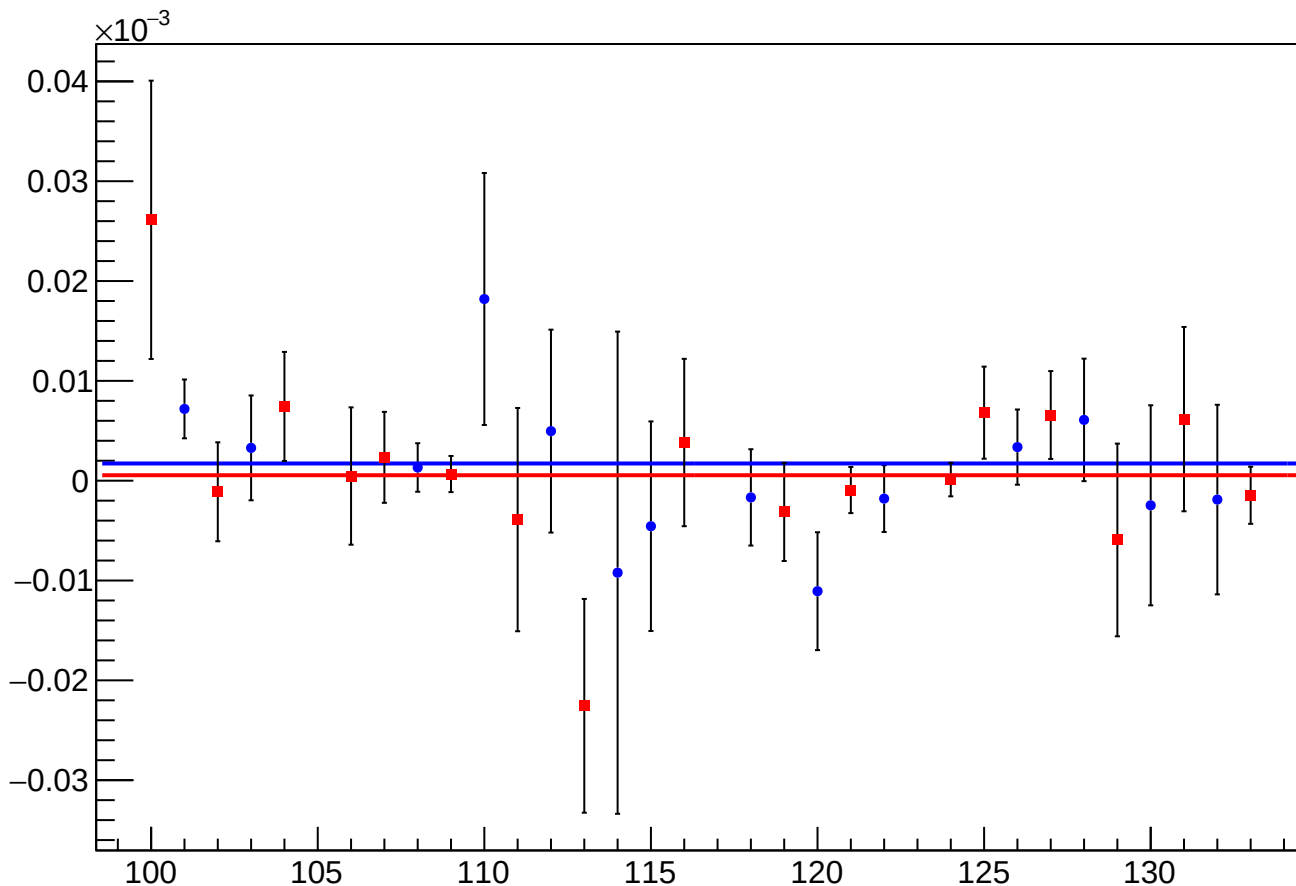
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.797+/-0.006  $\chi^2/\text{NDF}$ : 5256385.0/30

- 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: 13.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.3/16

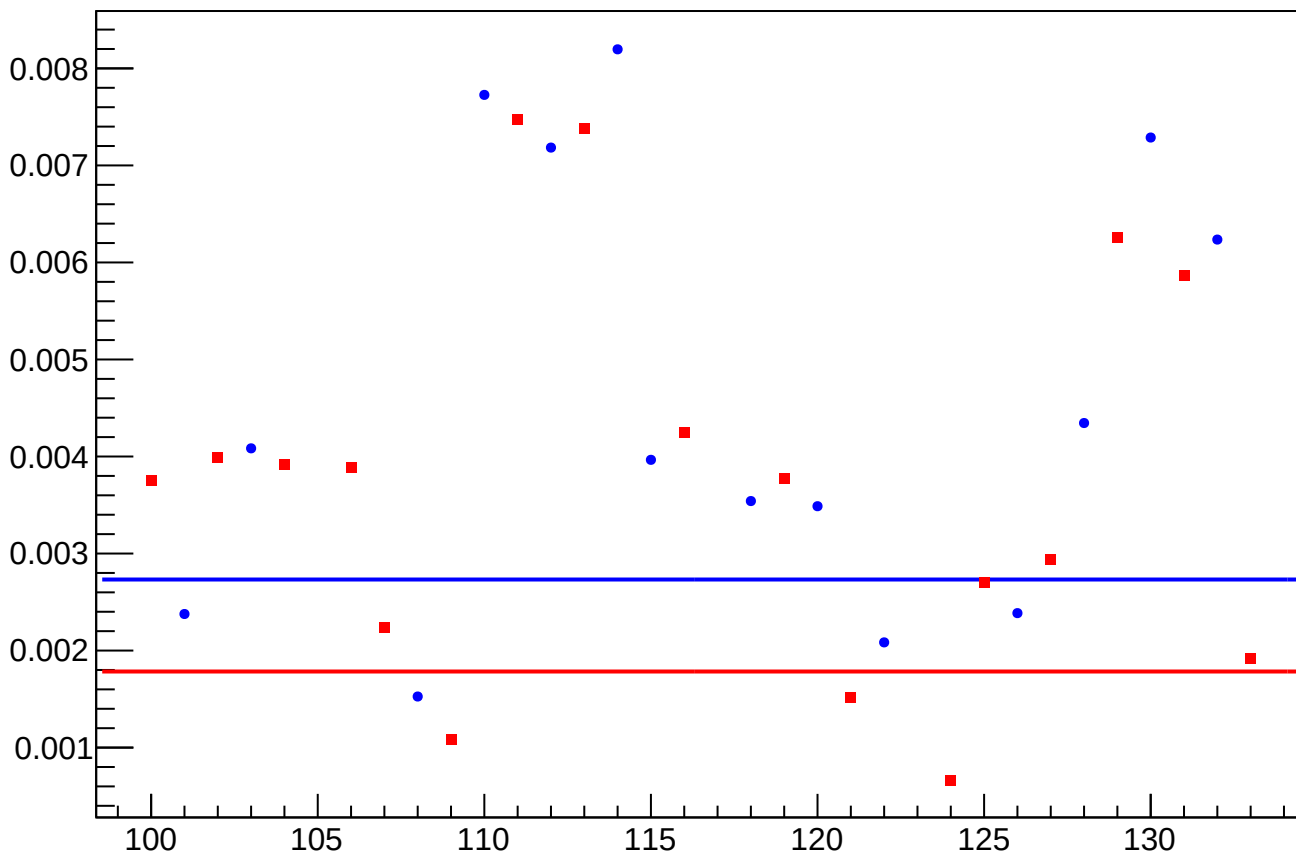
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 30.1/30

- 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  $\chi^2/\text{NDF}$ : 2485422.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4780651.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

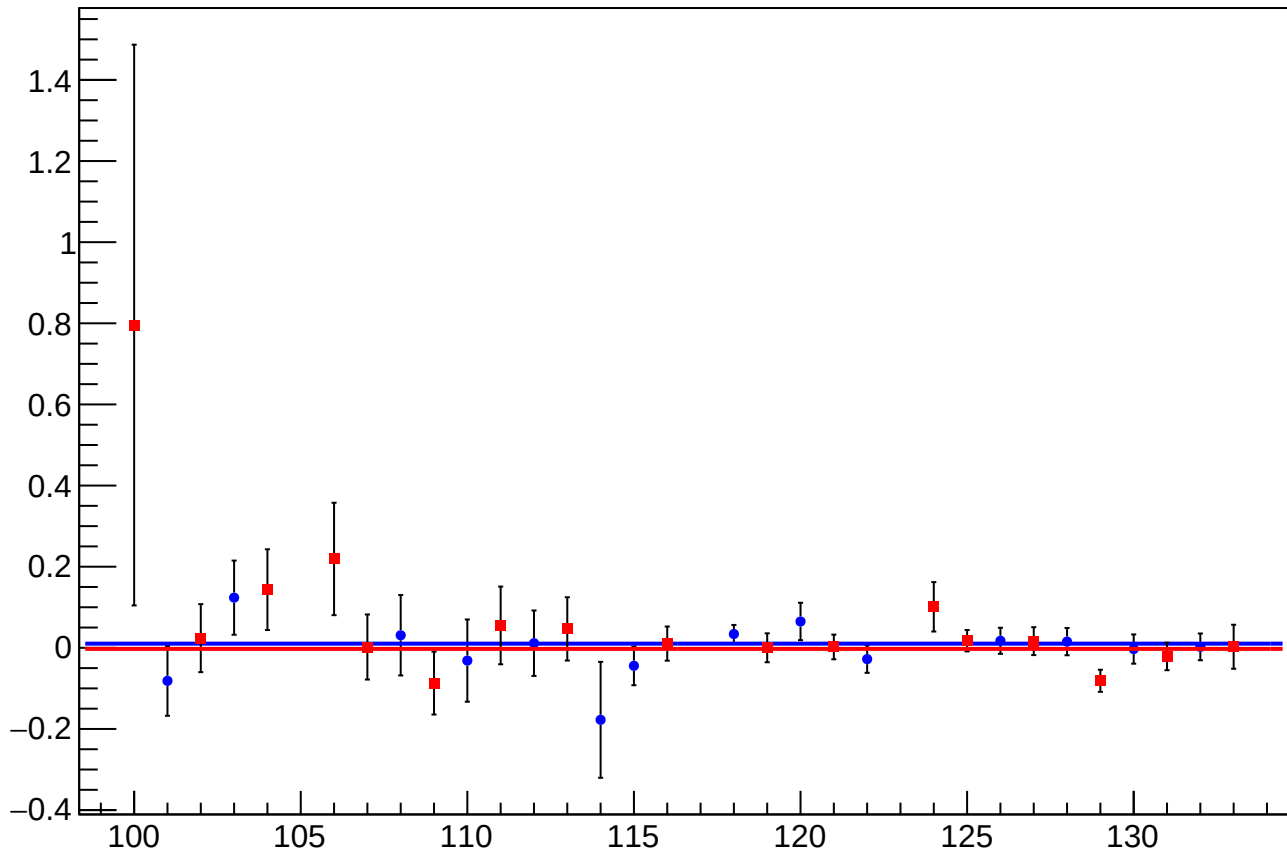
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 8028372.0/30

- 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: 0.010 $\pm$ 0.011  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.003 $\pm$ 0.011  $\chi^2$ /NDF: 20.7/16

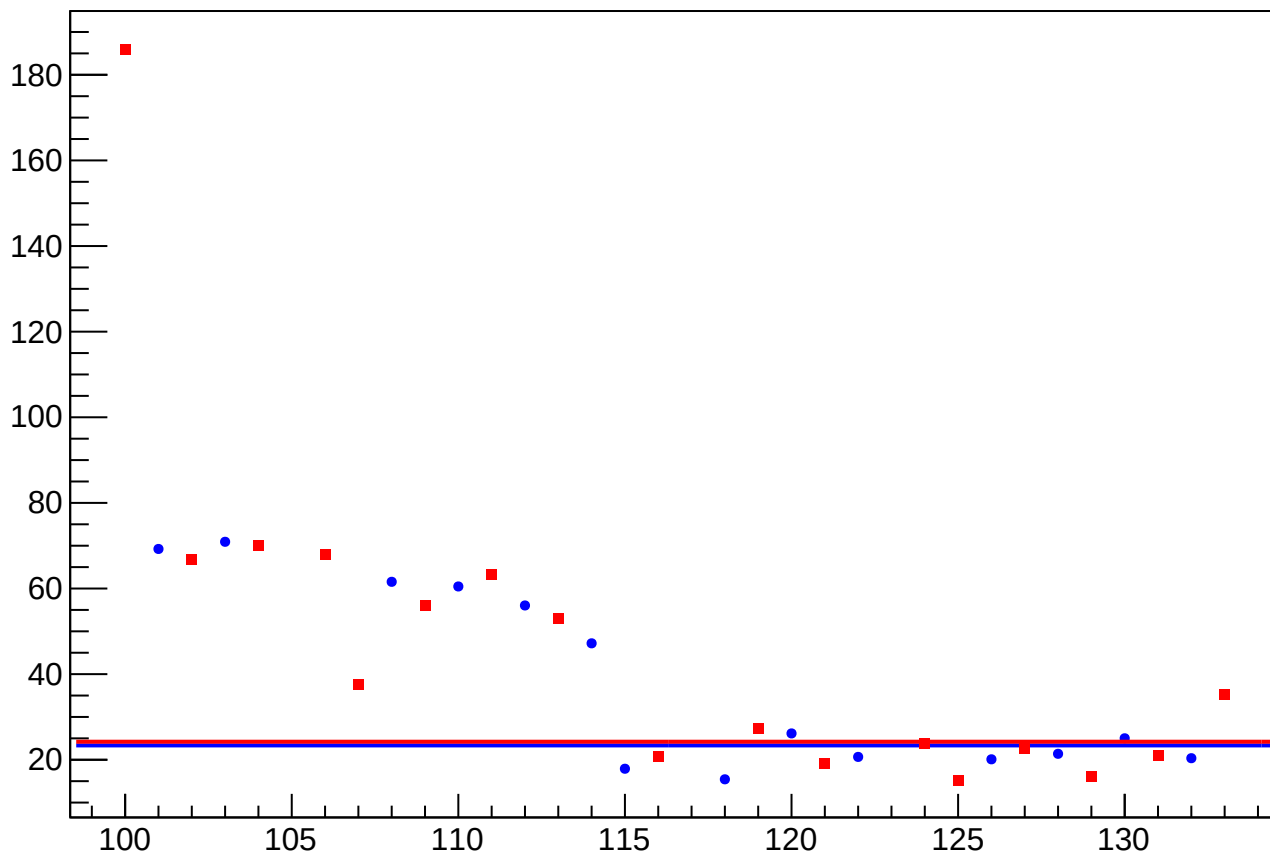
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.008  $\chi^2$ /NDF: 31.3/30

- 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: 23.350+/-0.008  $\chi^2/\text{NDF}$ : 2403445.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 24.216+/-0.008  $\chi^2/\text{NDF}$ : 2846797.9/16

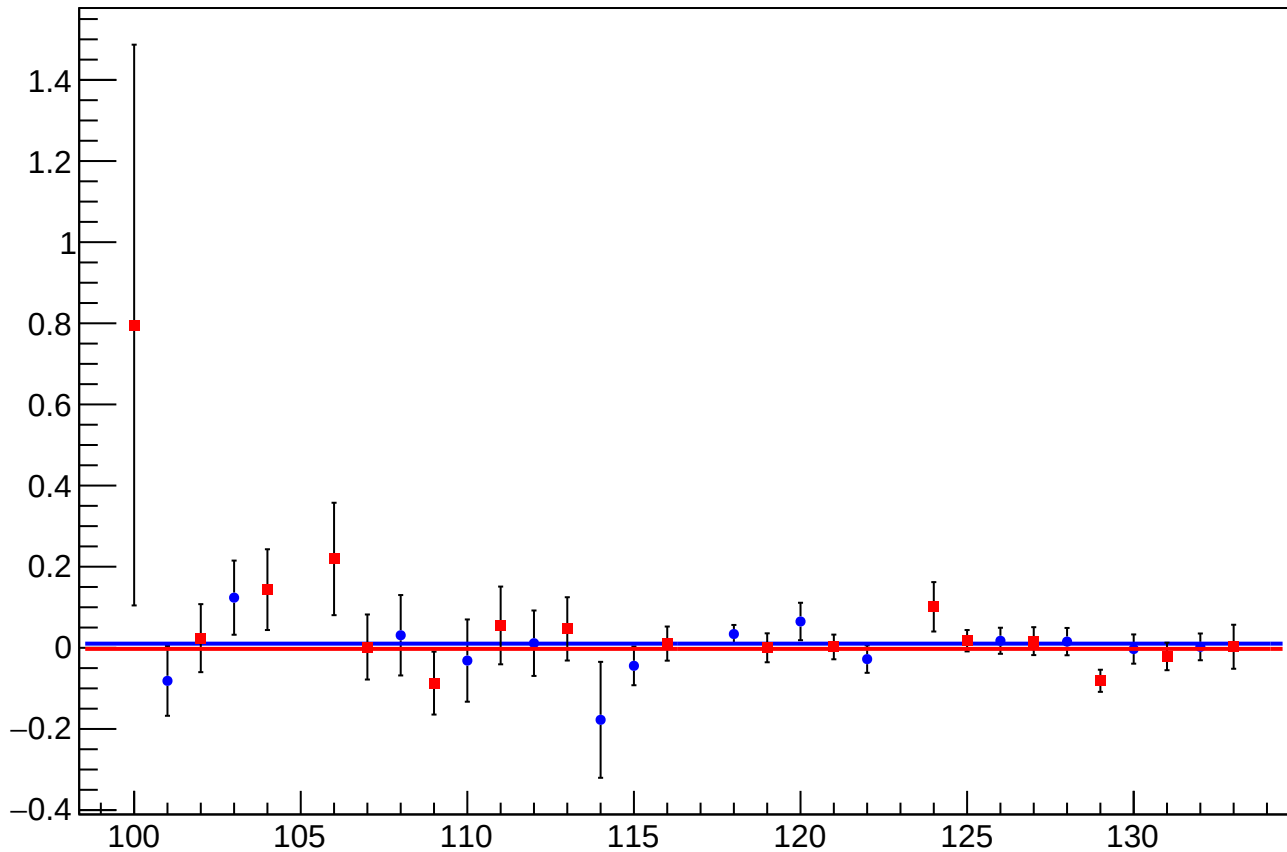
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.795+/-0.006  $\chi^2/\text{NDF}$ : 5256395.9/30

- 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: 0.010 $\pm$ 0.011  $\chi^2$ /NDF: 10.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.003 $\pm$ 0.011  $\chi^2$ /NDF: 20.7/16

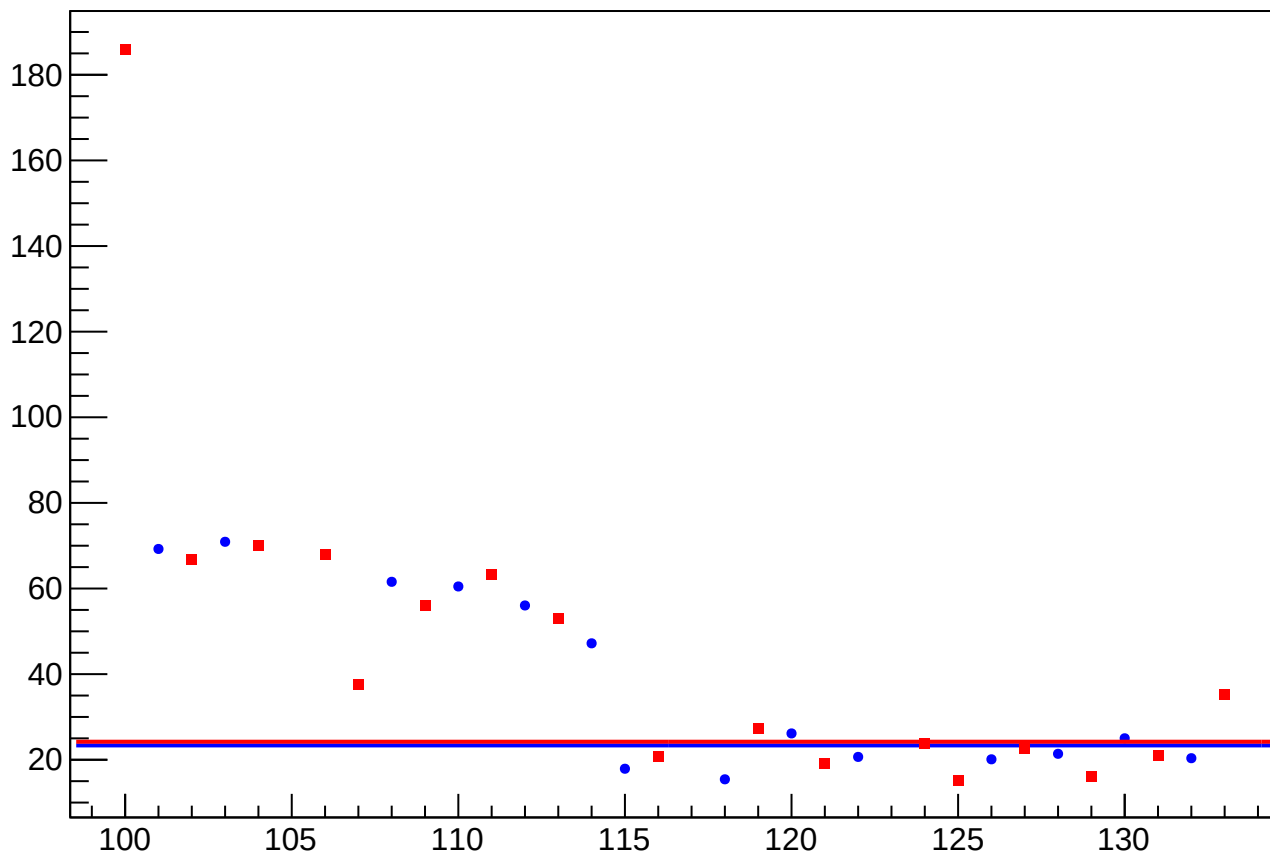
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.008  $\chi^2$ /NDF: 31.3/30

- 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: 23.350+/-0.008  $\chi^2/\text{NDF}$ : 2403445.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 24.216+/-0.008  $\chi^2/\text{NDF}$ : 2846797.9/16

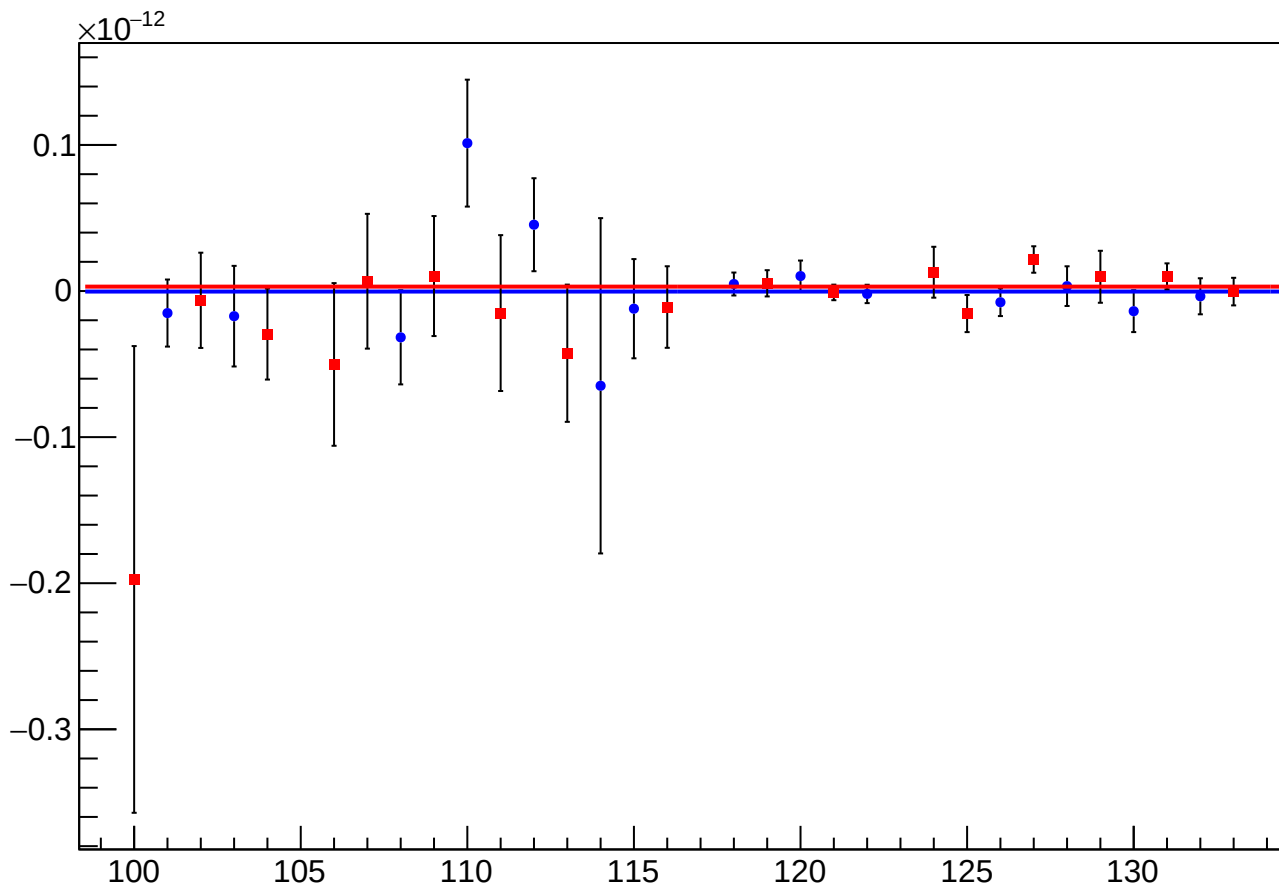
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.795+/-0.006  $\chi^2/\text{NDF}$ : 5256395.9/30

- 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: 12.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.2/16

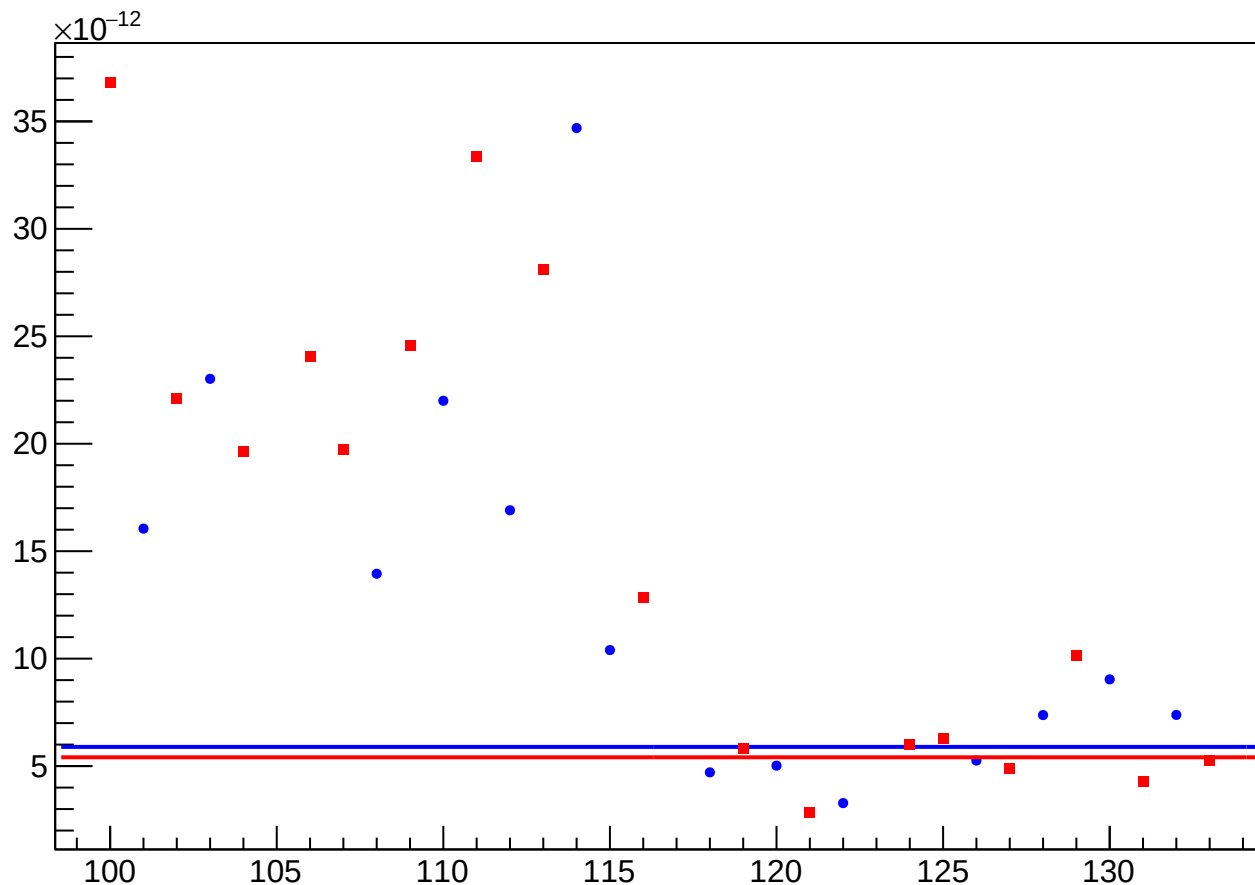
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 26.4/30

- 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  $\chi^2/\text{NDF}$ : 2249609.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3697636.3/16

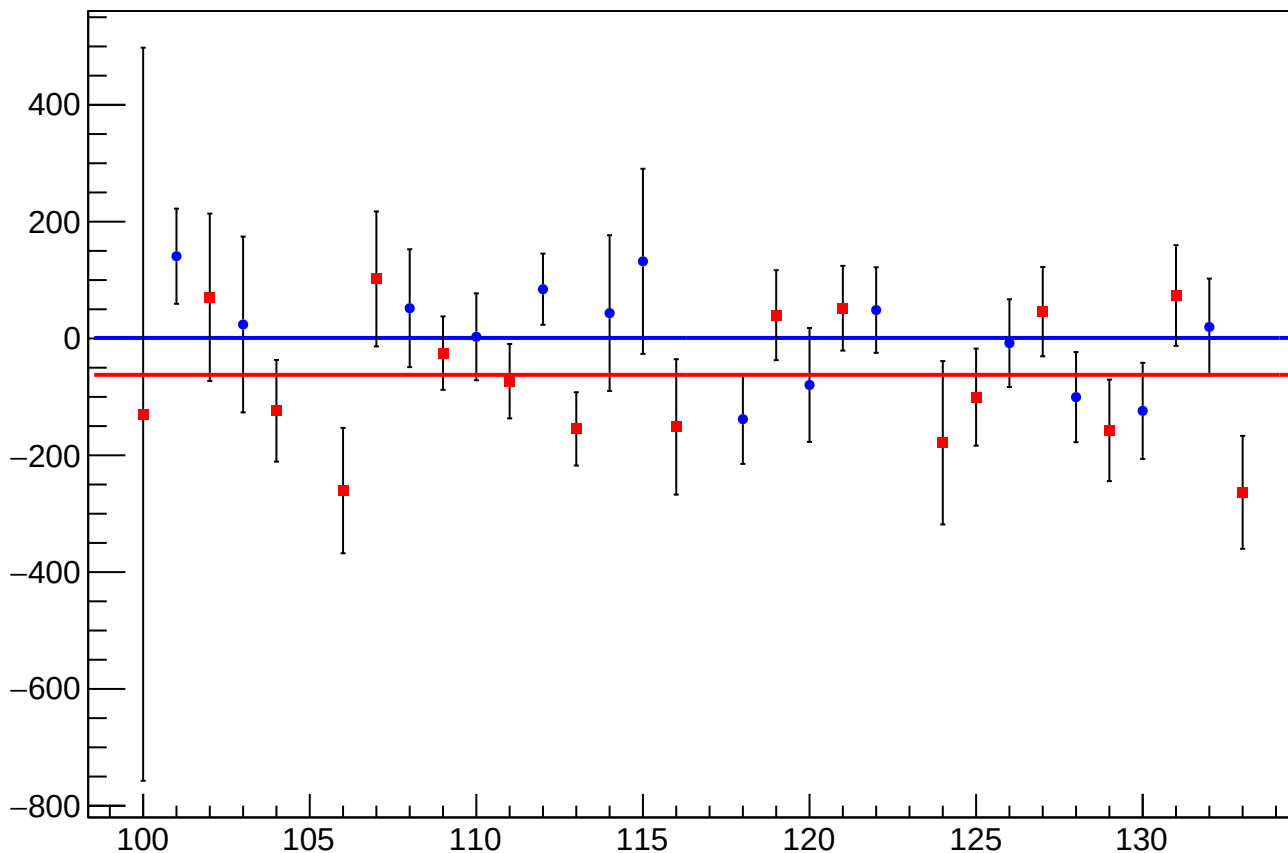
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5968821.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 0.929+/-22.705  $\chi^2$ /NDF: 14.4/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -62.267+/-20.982  $\chi^2$ /NDF: 25.1/16

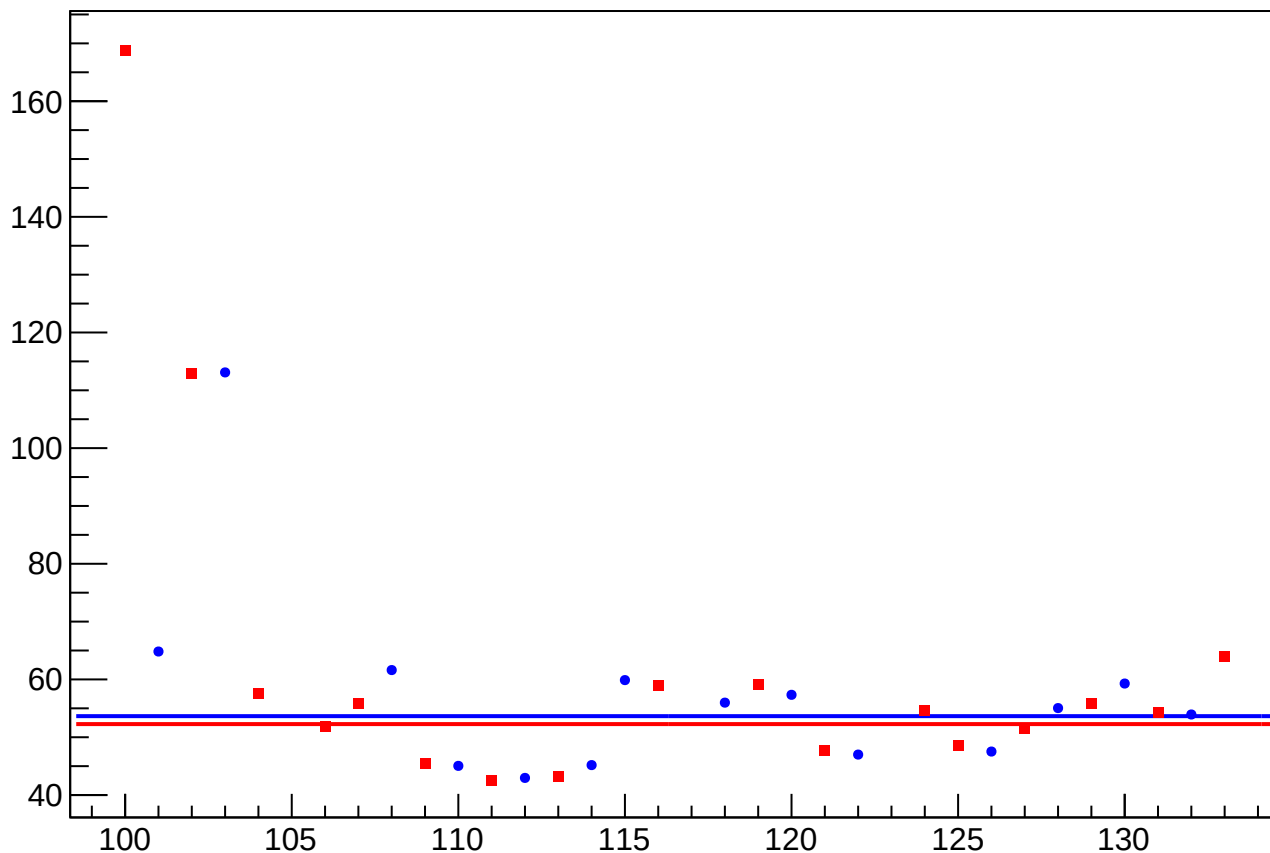
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -33.158+/-15.410  $\chi^2$ /NDF: 43.6/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 53.648+/-0.016  $\chi^2/\text{NDF}$ : 505904.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.274+/-0.015  $\chi^2/\text{NDF}$ : 617967.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

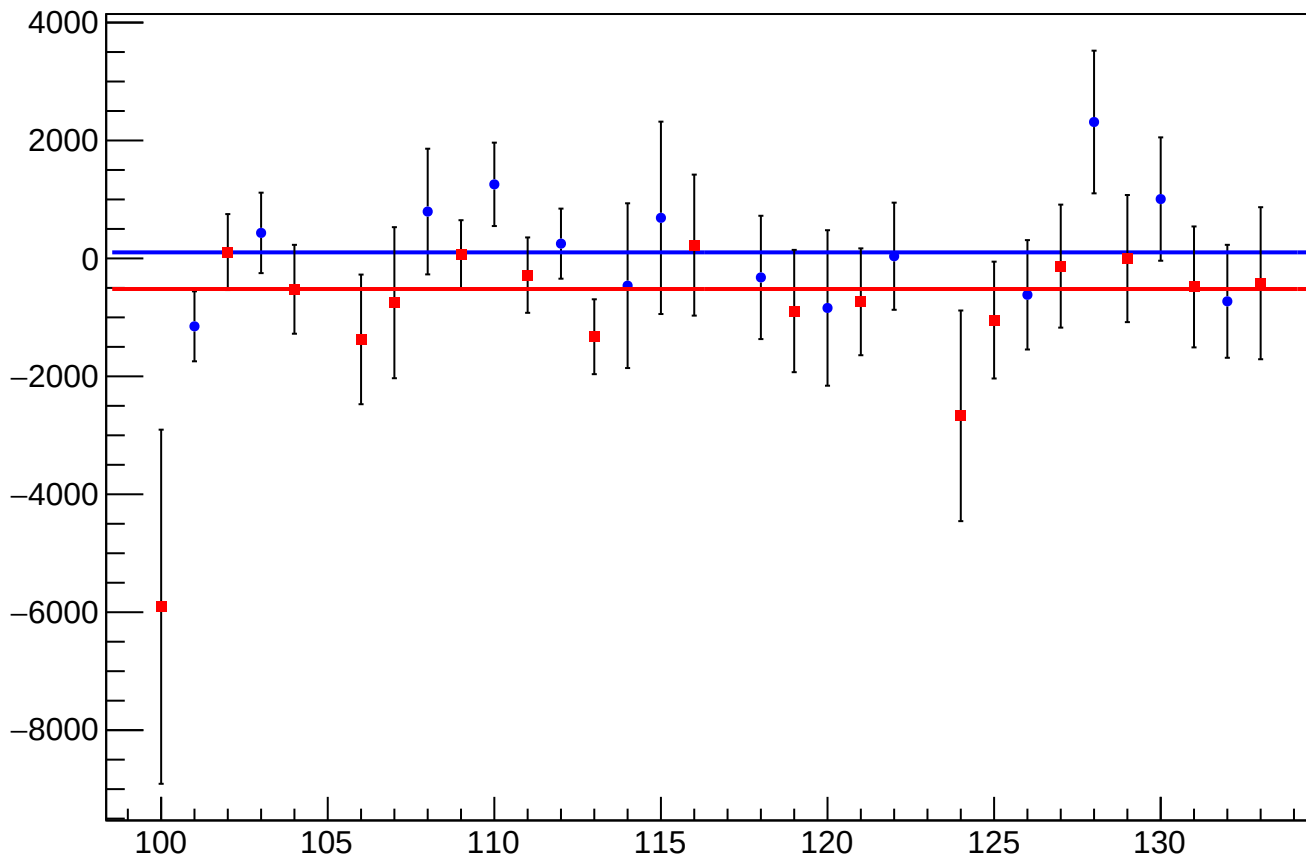
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52.907+/-0.011  $\chi^2/\text{NDF}$ : 1127821.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_avg\_reg\_correction\_mean vs Slug



Right In: 102.612 $\pm$ 234.790  $\chi^2$ /NDF: 14.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -518.616 $\pm$ 217.280  $\chi^2$ /NDF: 10.3/16

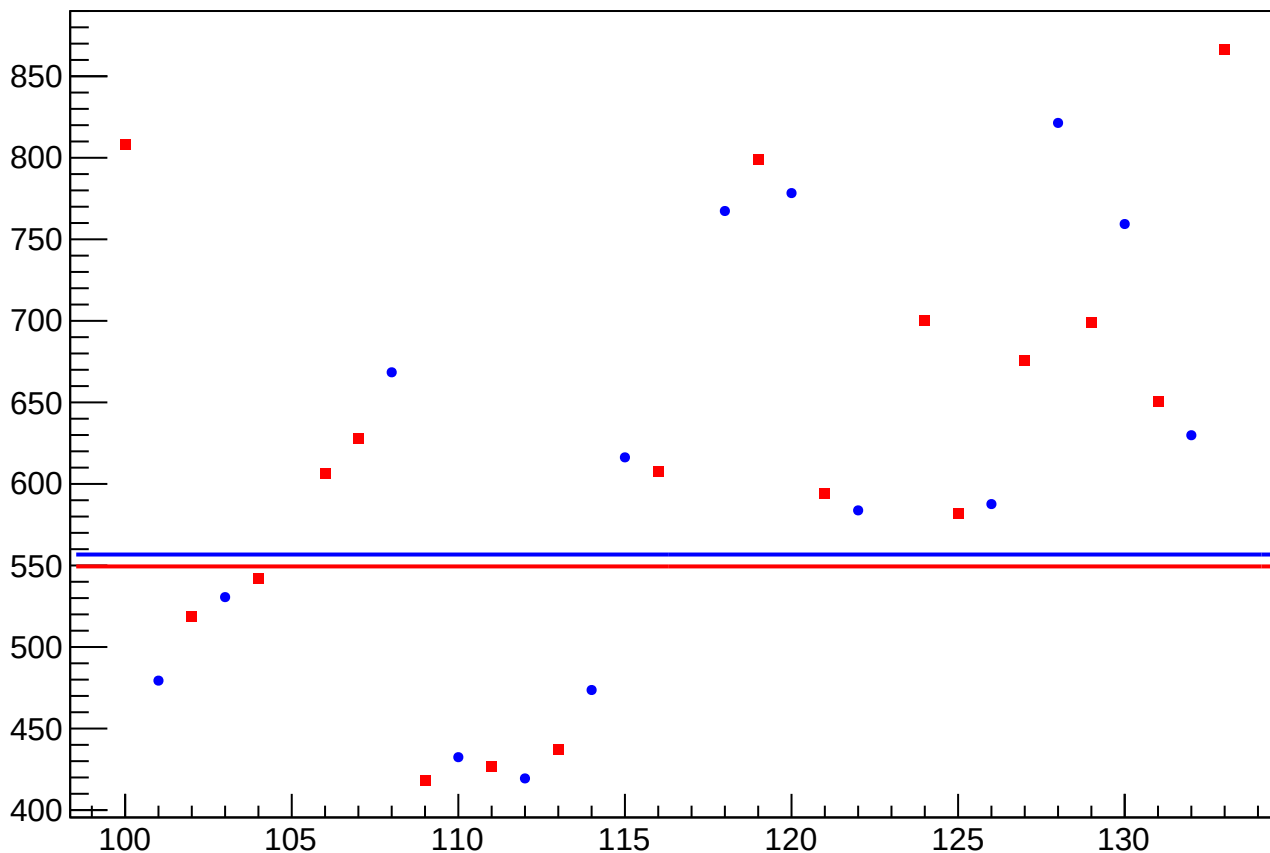
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -232.028 $\pm$ 159.471  $\chi^2$ /NDF: 28.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_reg\_correction\_rms vs Slug



Right In: 556.713+/-0.166  $\chi^2/\text{NDF}$ : 561316.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 549.415+/-0.154  $\chi^2/\text{NDF}$ : 623033.1/16

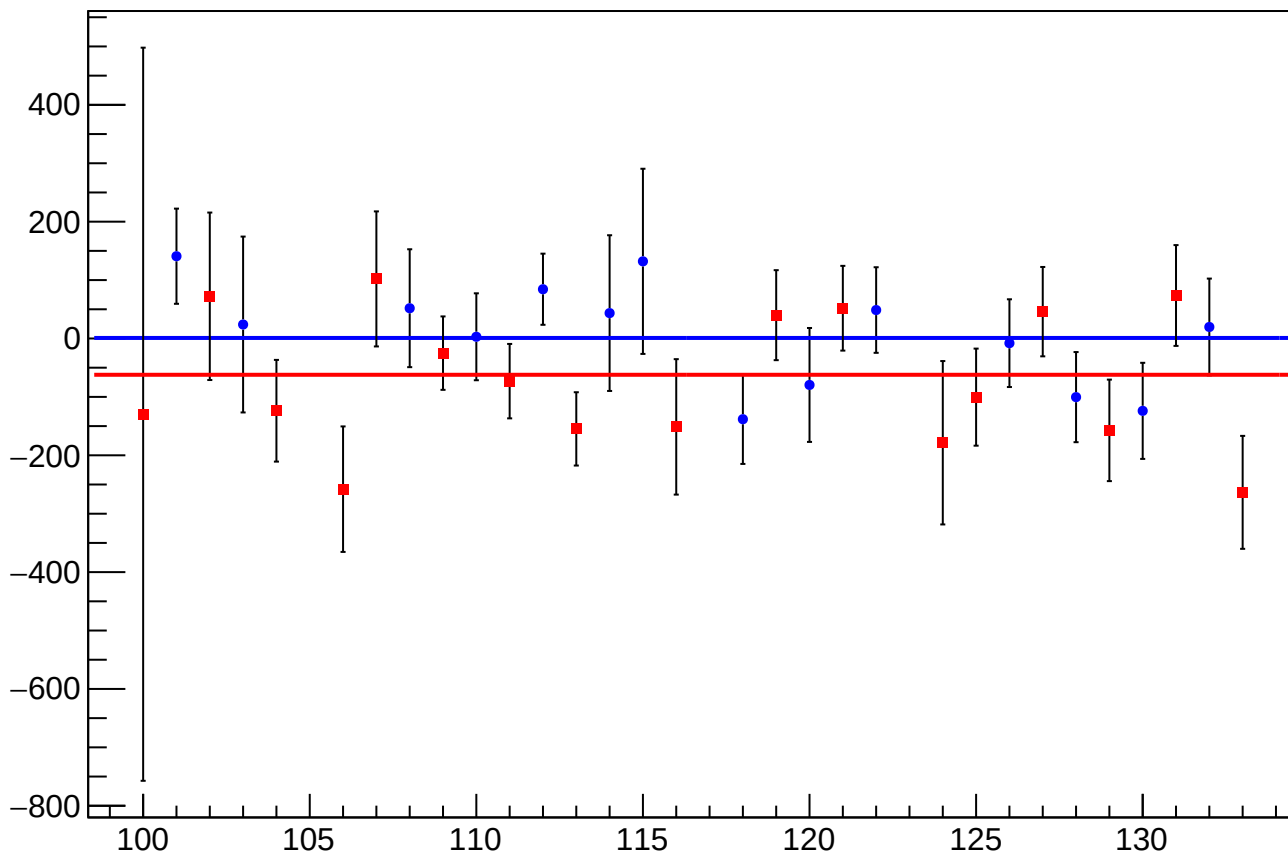
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 552.782+/-0.113  $\chi^2/\text{NDF}$ : 1185390.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1357\_avg\_mean vs Slug



Right In:  $0.922 \pm 22.705$   $\chi^2/\text{NDF}$ : 14.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-62.133 \pm 20.983$   $\chi^2/\text{NDF}$ : 25.0/16

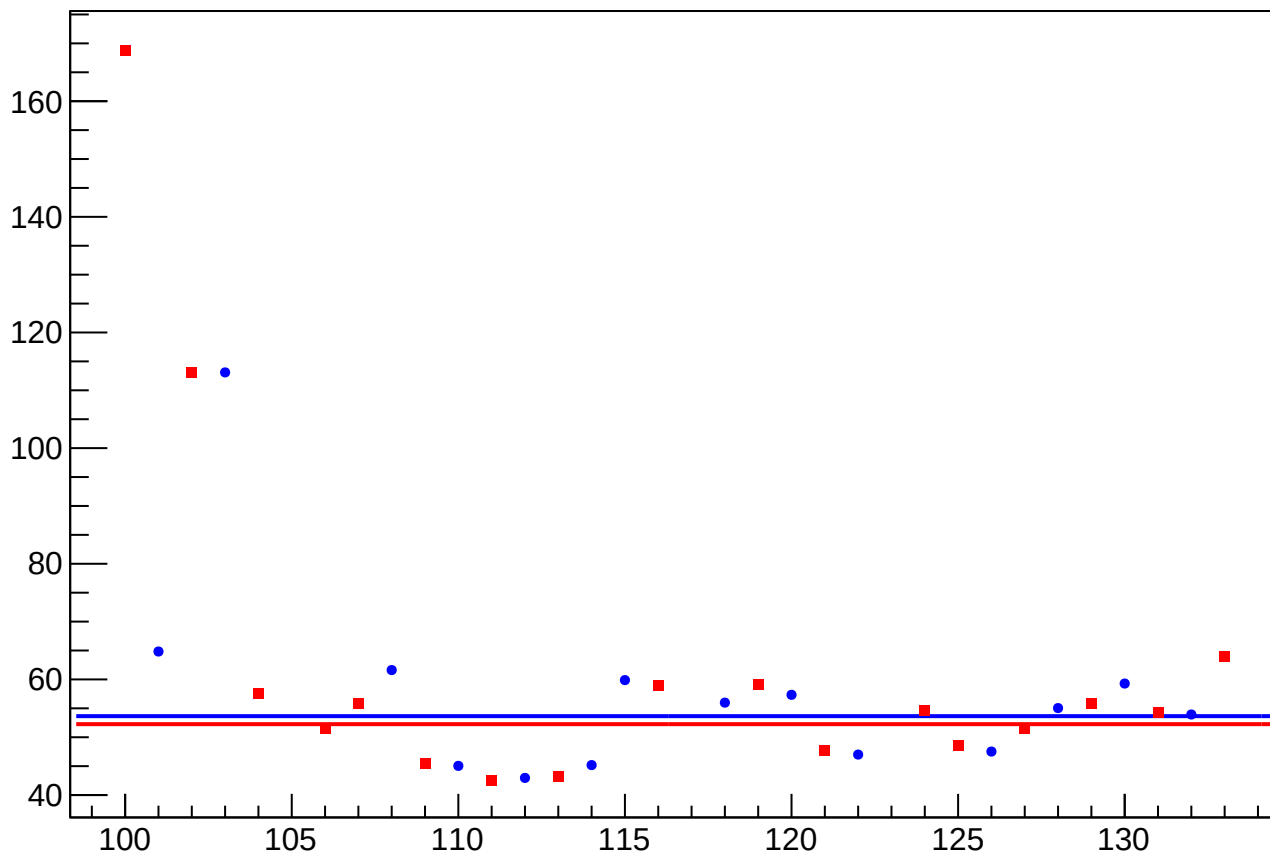
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-33.087 \pm 15.410$   $\chi^2/\text{NDF}$ : 43.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 53.648 $\pm$ 0.016  $\chi^2$ /NDF: 505906.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 52.262 $\pm$ 0.015  $\chi^2$ /NDF: 618264.8/16

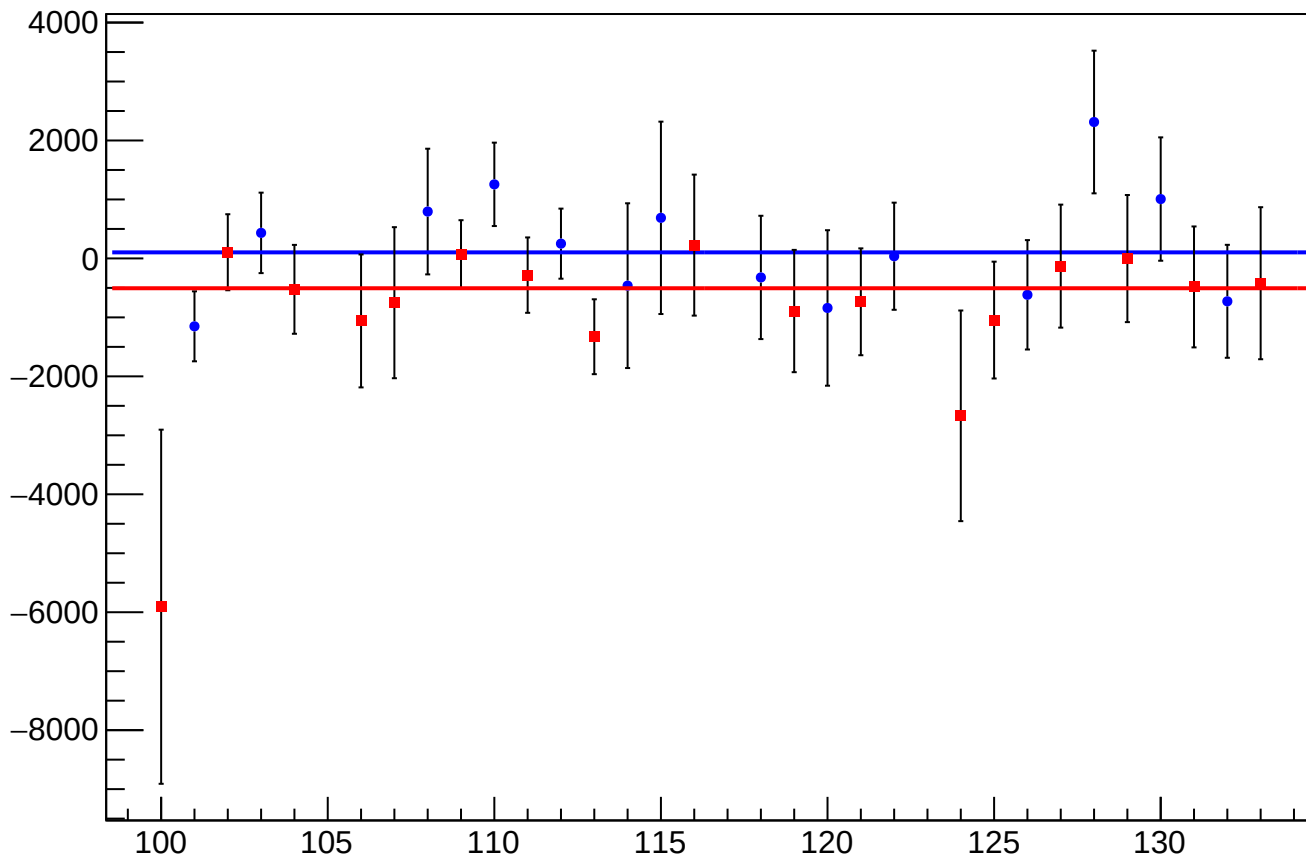
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 52.901 $\pm$ 0.011  $\chi^2$ /NDF: 1128188.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_cor\_correction\_mean vs Slug



Right In: 102.647 $\pm$ 234.793  $\chi^2$ /NDF: 14.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -505.848 $\pm$ 217.513  $\chi^2$ /NDF: 9.9/16

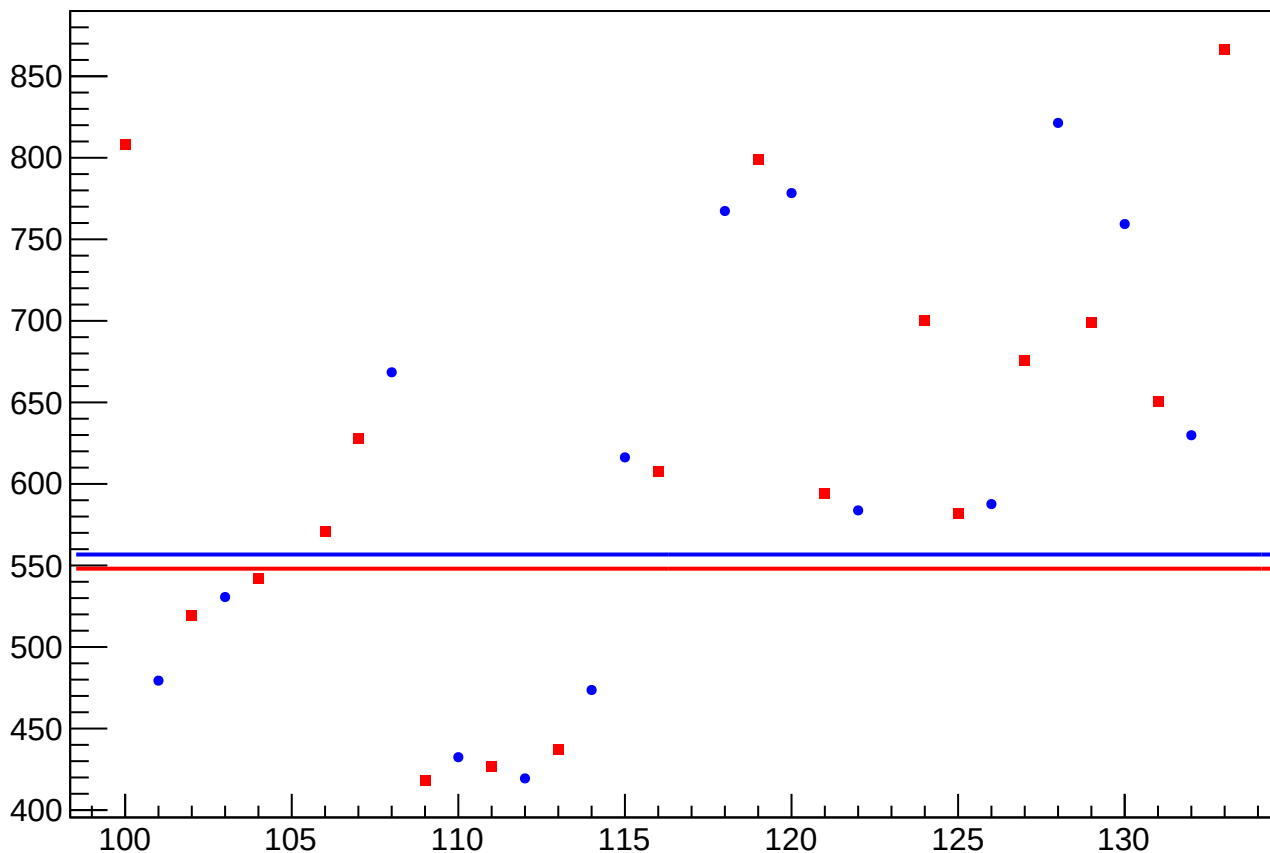
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -224.813 $\pm$ 159.565  $\chi^2$ /NDF: 27.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_cor\_correction\_rms vs Slug



Right In: 556.721+/-0.166  $\chi^2/\text{NDF}$ : 561302.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 548.047+/-0.154  $\chi^2/\text{NDF}$ : 618187.2/16

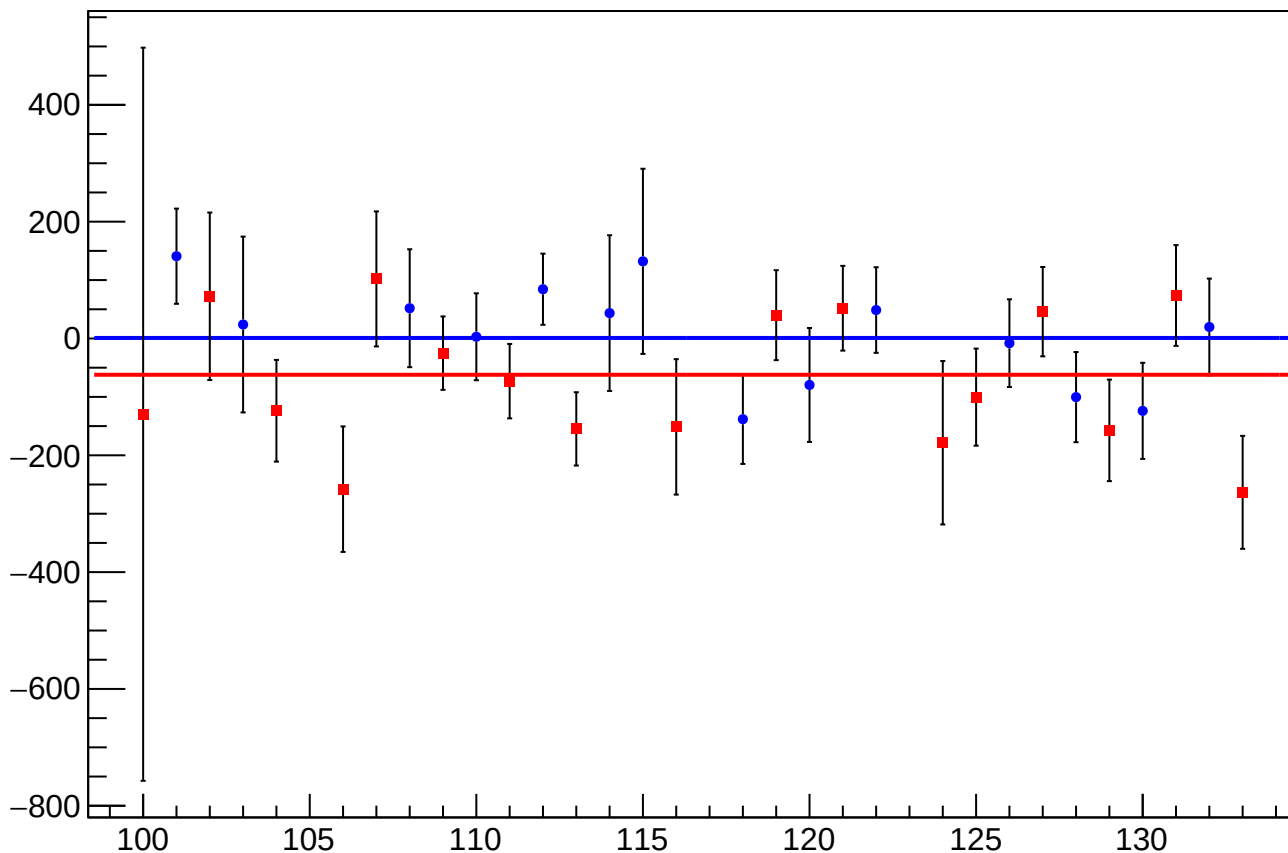
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 552.053+/-0.113  $\chi^2/\text{NDF}$ : 1180958.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_1357\_avg\_mean vs Slug



Right In:  $0.922 \pm 22.705$   $\chi^2/\text{NDF}$ : 14.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-62.133 \pm 20.983$   $\chi^2/\text{NDF}$ : 25.0/16

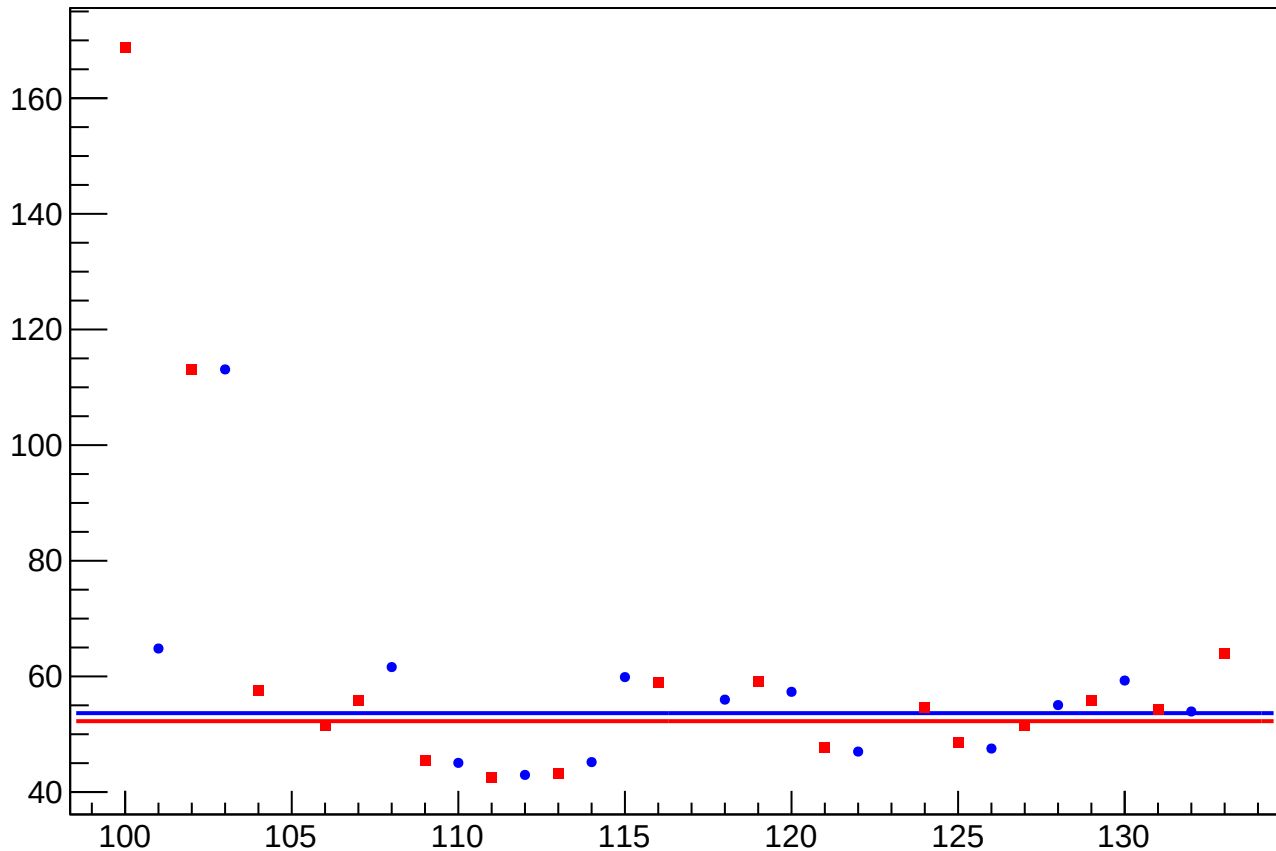
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-33.087 \pm 15.410$   $\chi^2/\text{NDF}$ : 43.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 53.648 $\pm$ 0.016  $\chi^2$ /NDF: 505906.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 52.262 $\pm$ 0.015  $\chi^2$ /NDF: 618264.8/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

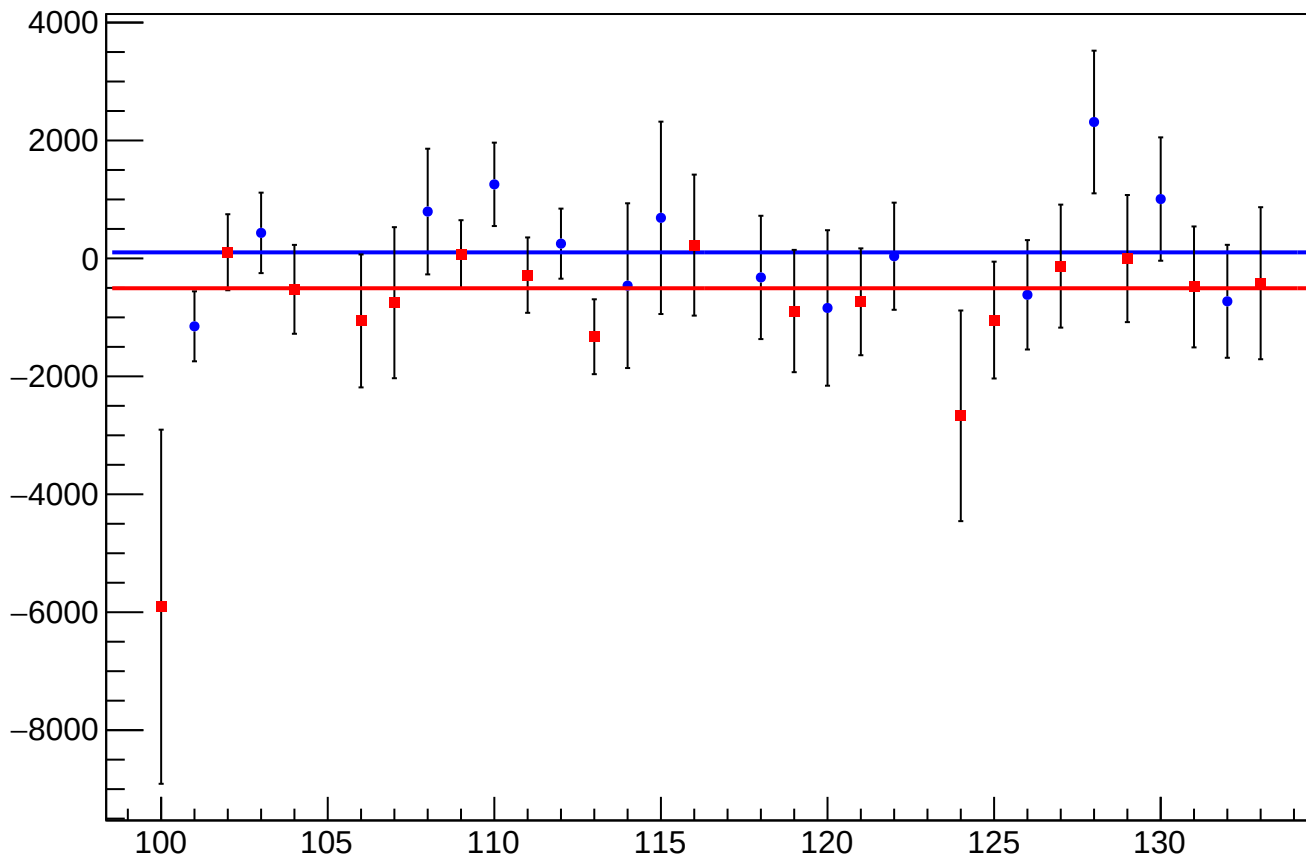
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 52.901 $\pm$ 0.011  $\chi^2$ /NDF: 1128188.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_1357\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 102.647 $\pm$ 234.793  $\chi^2$ /NDF: 14.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -505.848 $\pm$ 217.513  $\chi^2$ /NDF: 9.9/16

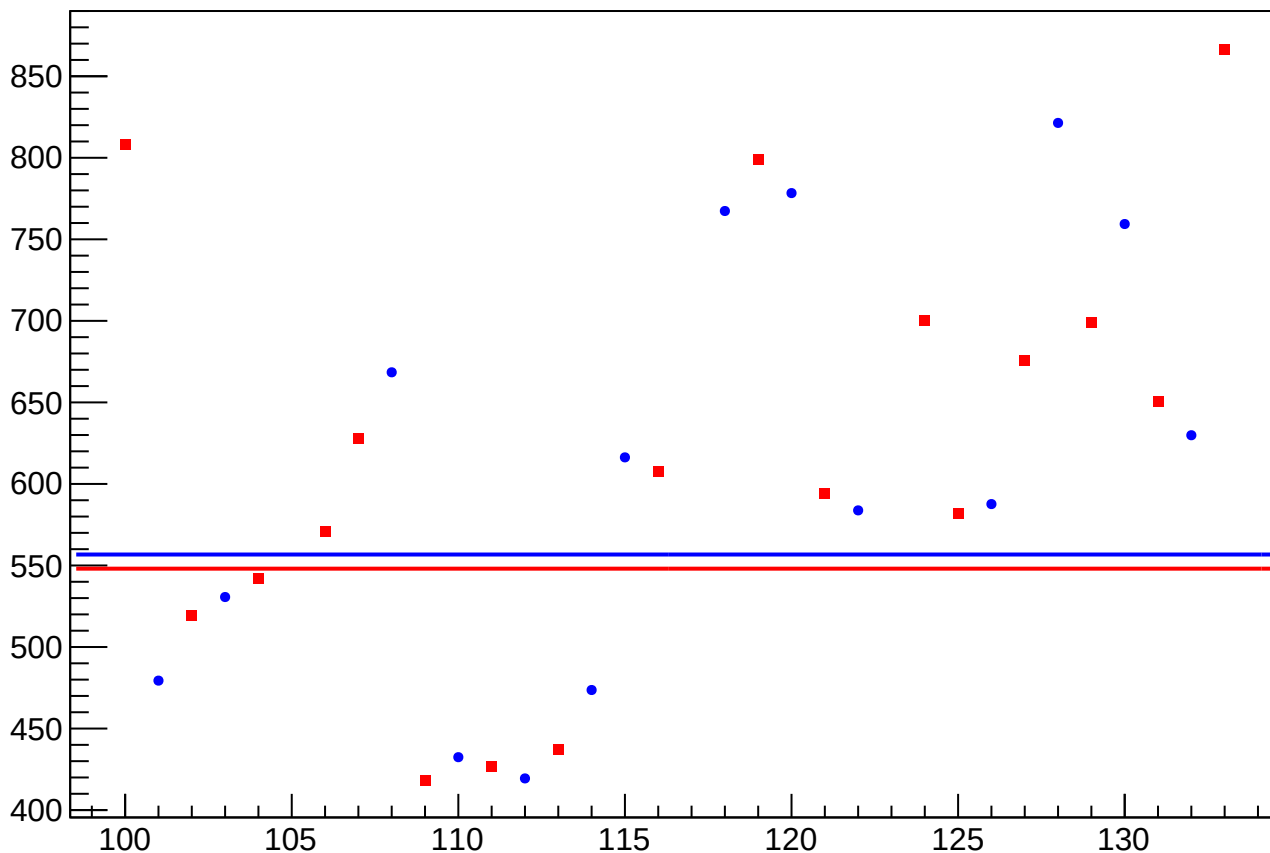
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -224.813 $\pm$ 159.565  $\chi^2$ /NDF: 27.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 556.721+/-0.166  $\chi^2/\text{NDF}$ : 561302.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 548.047+/-0.154  $\chi^2/\text{NDF}$ : 618187.2/16

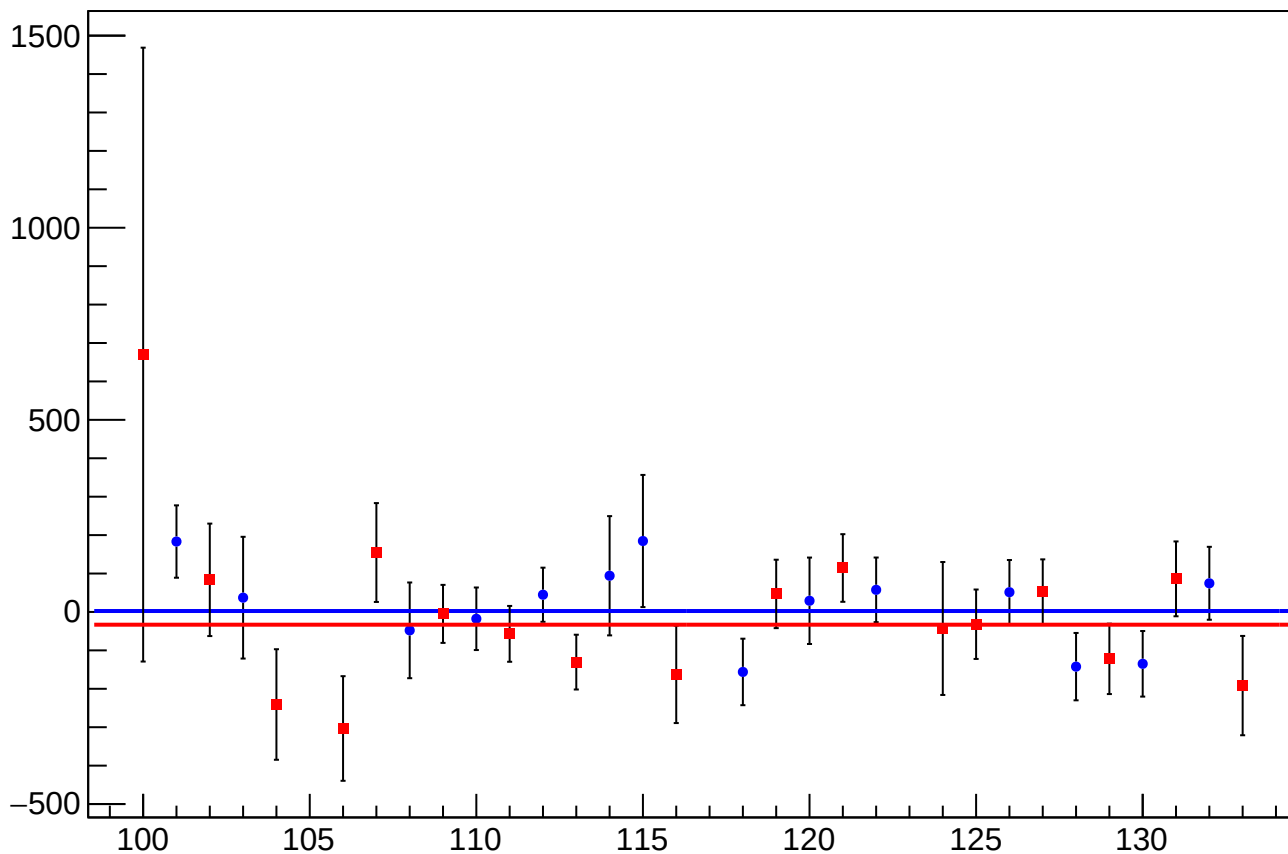
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 552.053+/-0.113  $\chi^2/\text{NDF}$ : 1180958.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 2.443+/-25.650  $\chi^2$ /NDF: 15.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -33.186+/-24.468  $\chi^2$ /NDF: 21.3/16

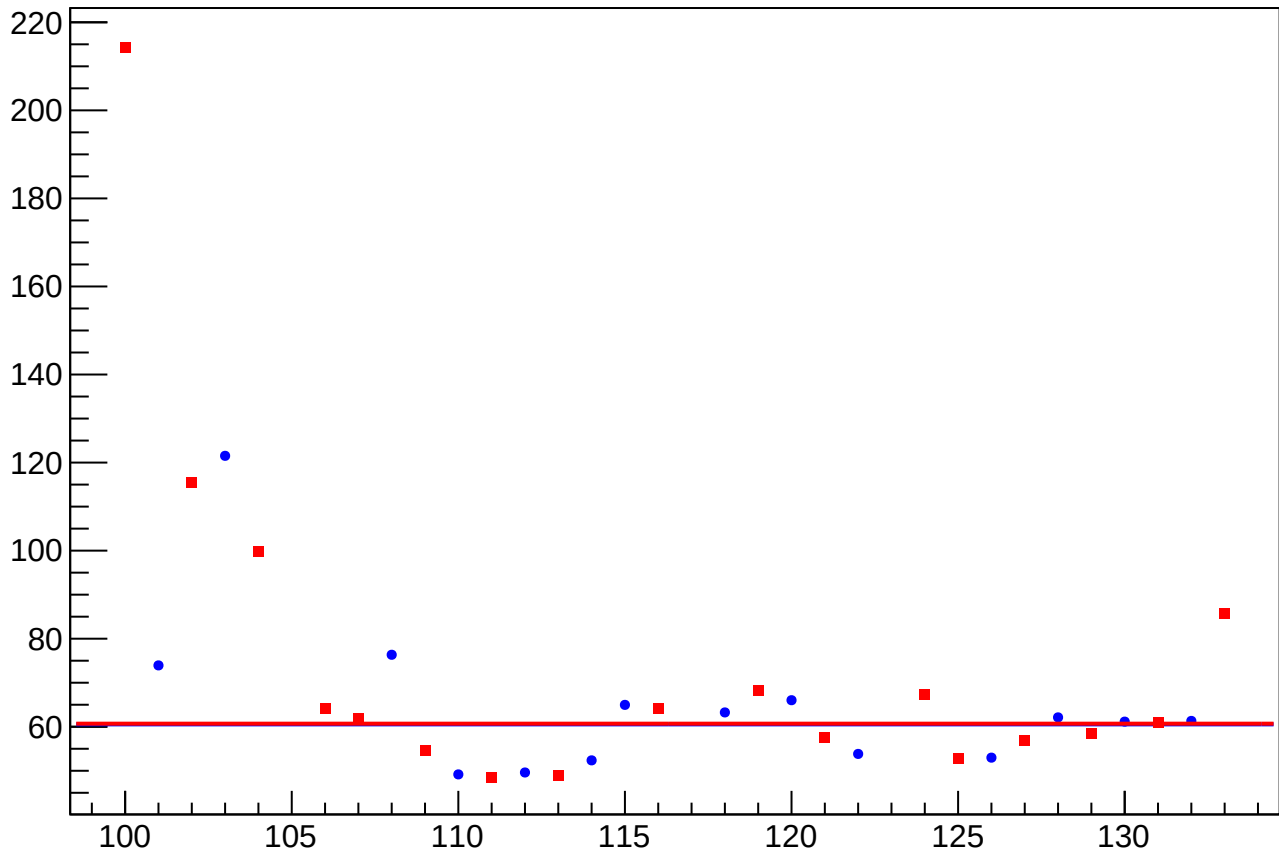
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -16.211+/-17.705  $\chi^2$ /NDF: 38.2/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 60.539+/-0.018  $\chi^2/\text{NDF}$ : 499678.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 60.699+/-0.017  $\chi^2/\text{NDF}$ : 744190.6/16

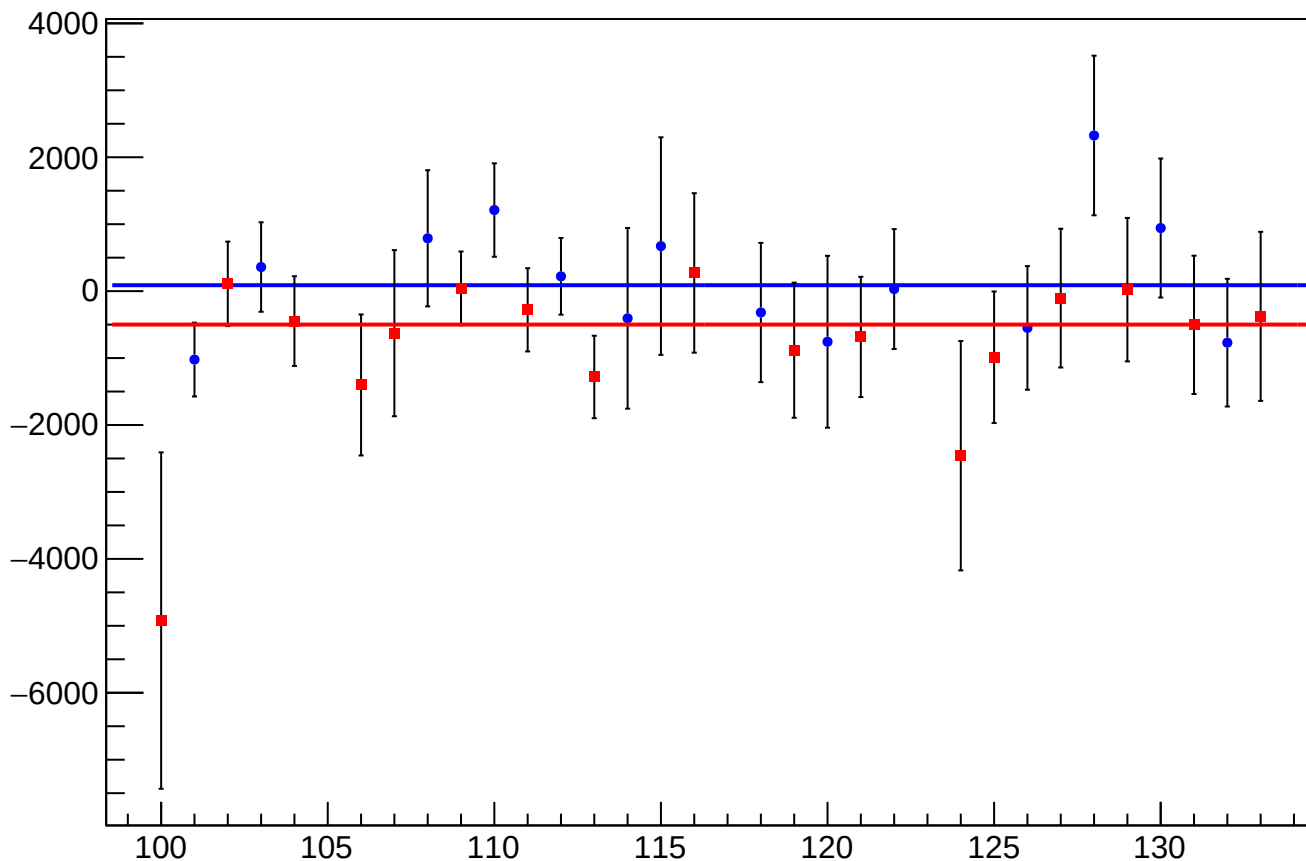
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 60.623+/-0.013  $\chi^2/\text{NDF}$ : 1243909.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_dit\_correction\_mean vs Slug



Right In: 88.501+/-228.199  $\chi^2/\text{NDF}$ : 13.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -499.657+/-210.171  $\chi^2/\text{NDF}$ : 10.0/16

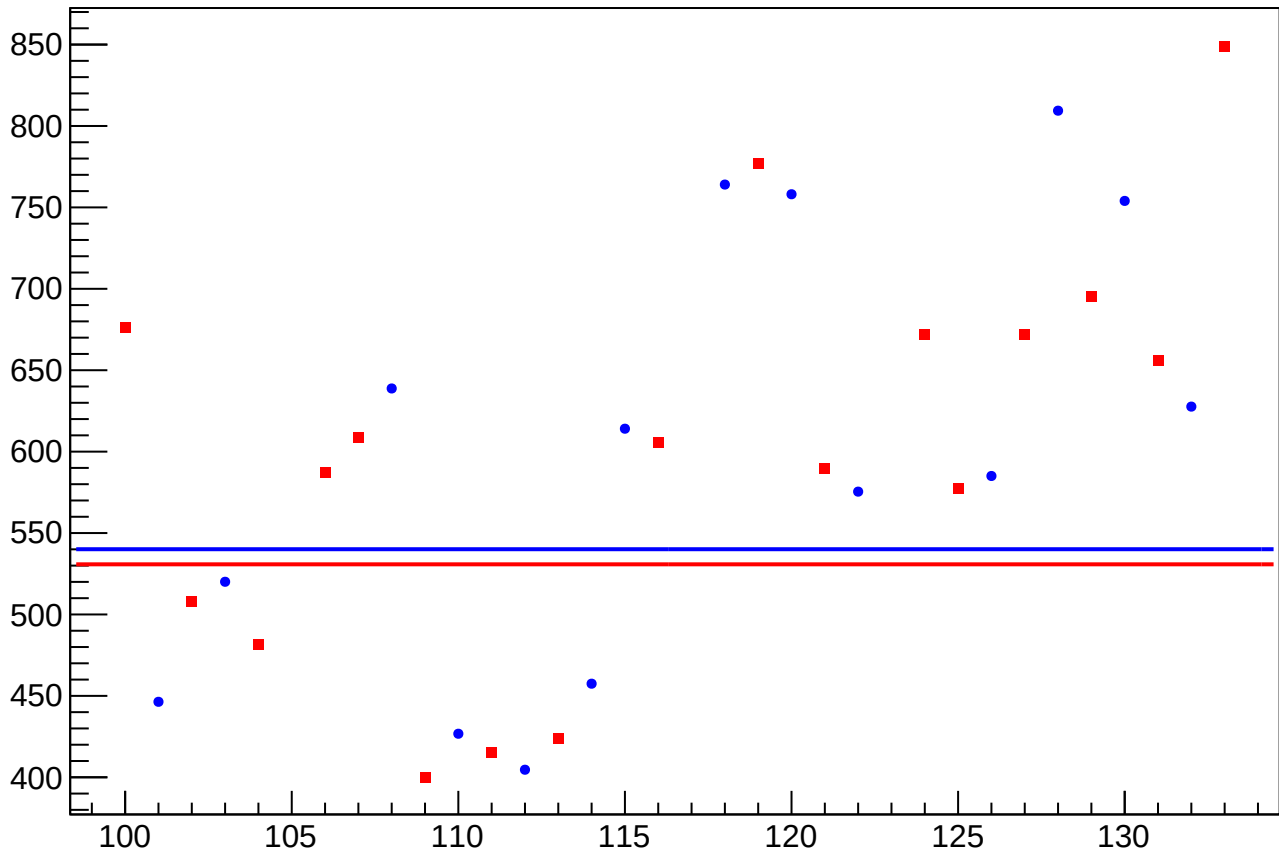
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -229.725+/-154.594  $\chi^2/\text{NDF}$ : 27.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_avg\_dit\_correction\_rms vs Slug



Right In: 540.071+/-0.161  $\chi^2/\text{NDF}$ : 616591.2/13

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

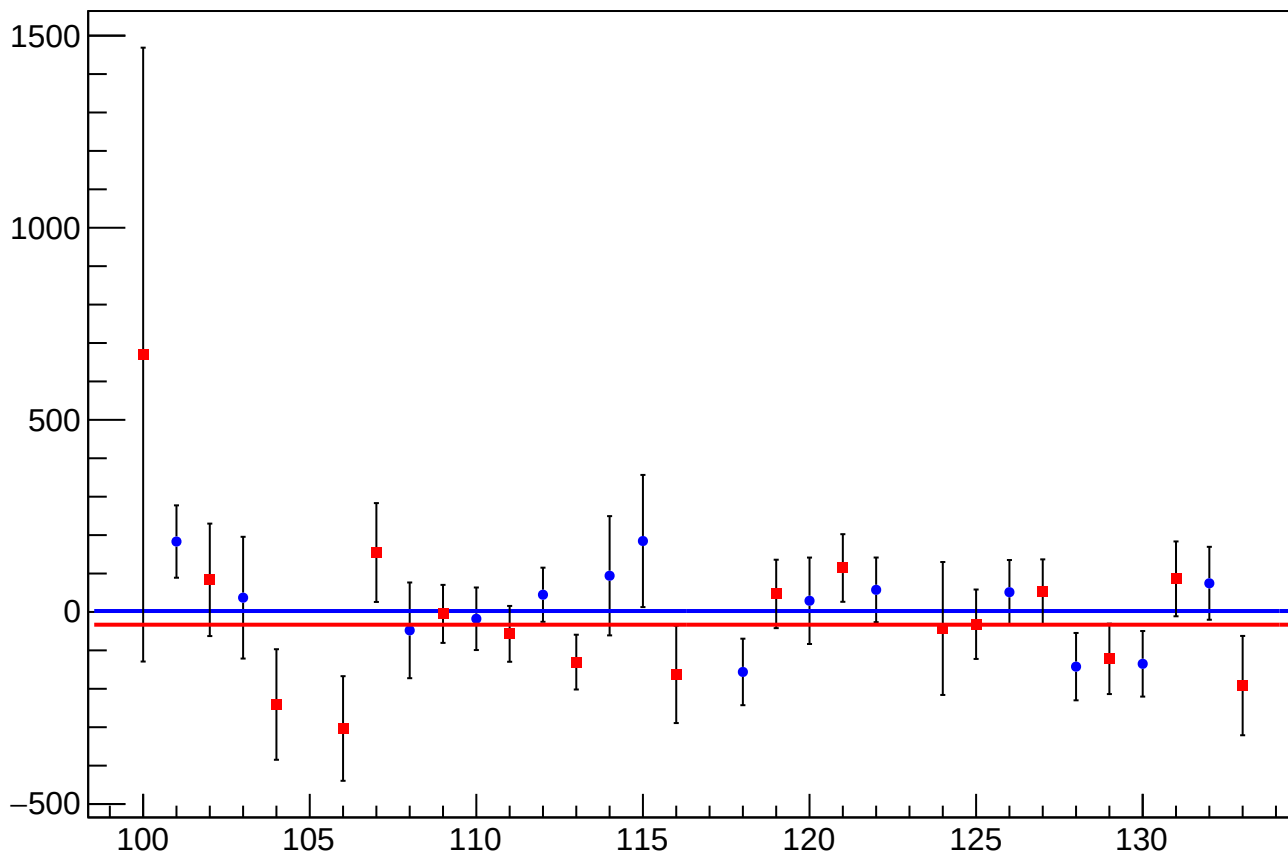
Right Out: 530.792+/-0.149  $\chi^2/\text{NDF}$ : 670242.4/16

All: 535.051+/-0.109  $\chi^2/\text{NDF}$ : 1288622.4/30

- 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\_1357\_avg\_mean vs Slug



Right In: 2.442 $\pm$ 25.650  $\chi^2$ /NDF: 15.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -33.185 $\pm$ 24.468  $\chi^2$ /NDF: 21.3/16

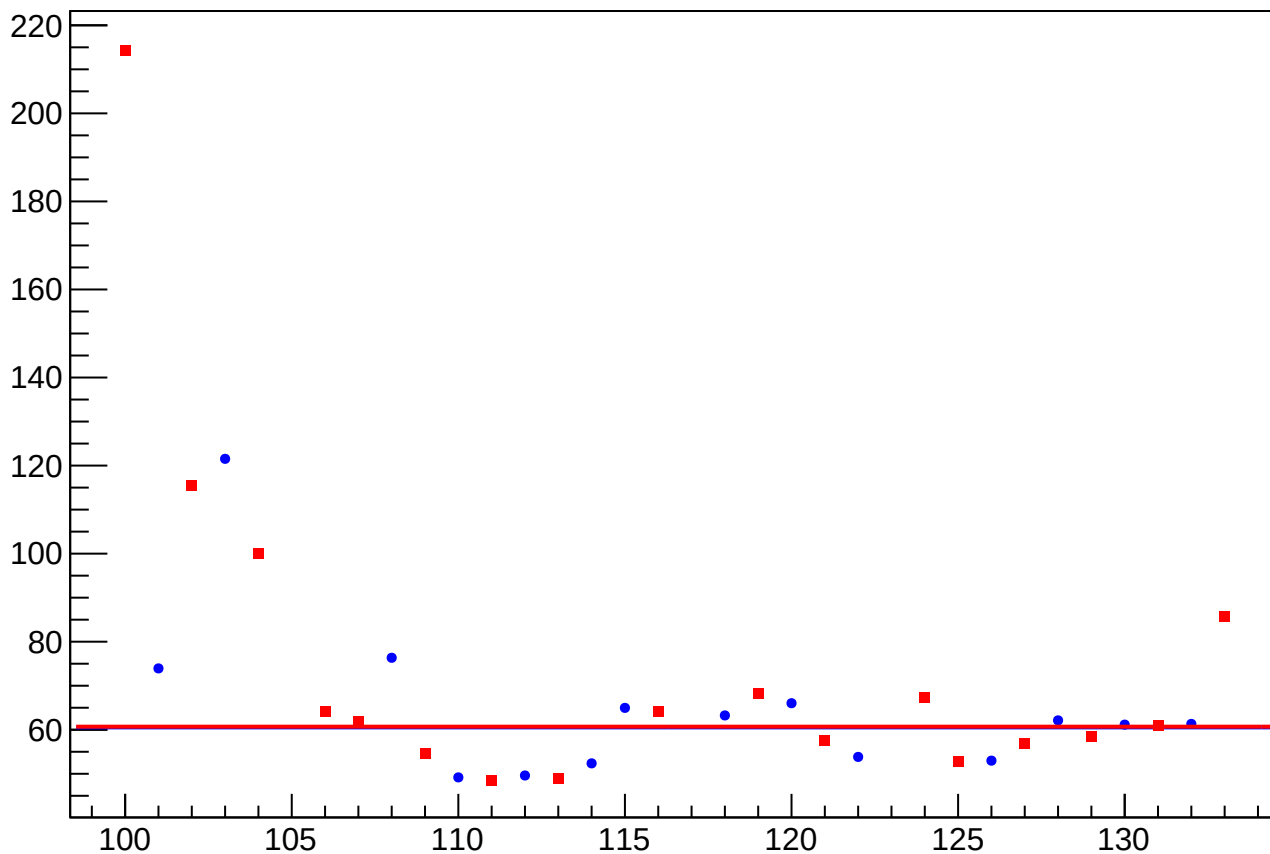
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -16.211 $\pm$ 17.705  $\chi^2$ /NDF: 38.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 60.540+/-0.018  $\chi^2/\text{NDF}$ : 499676.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 60.700+/-0.017  $\chi^2/\text{NDF}$ : 744190.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

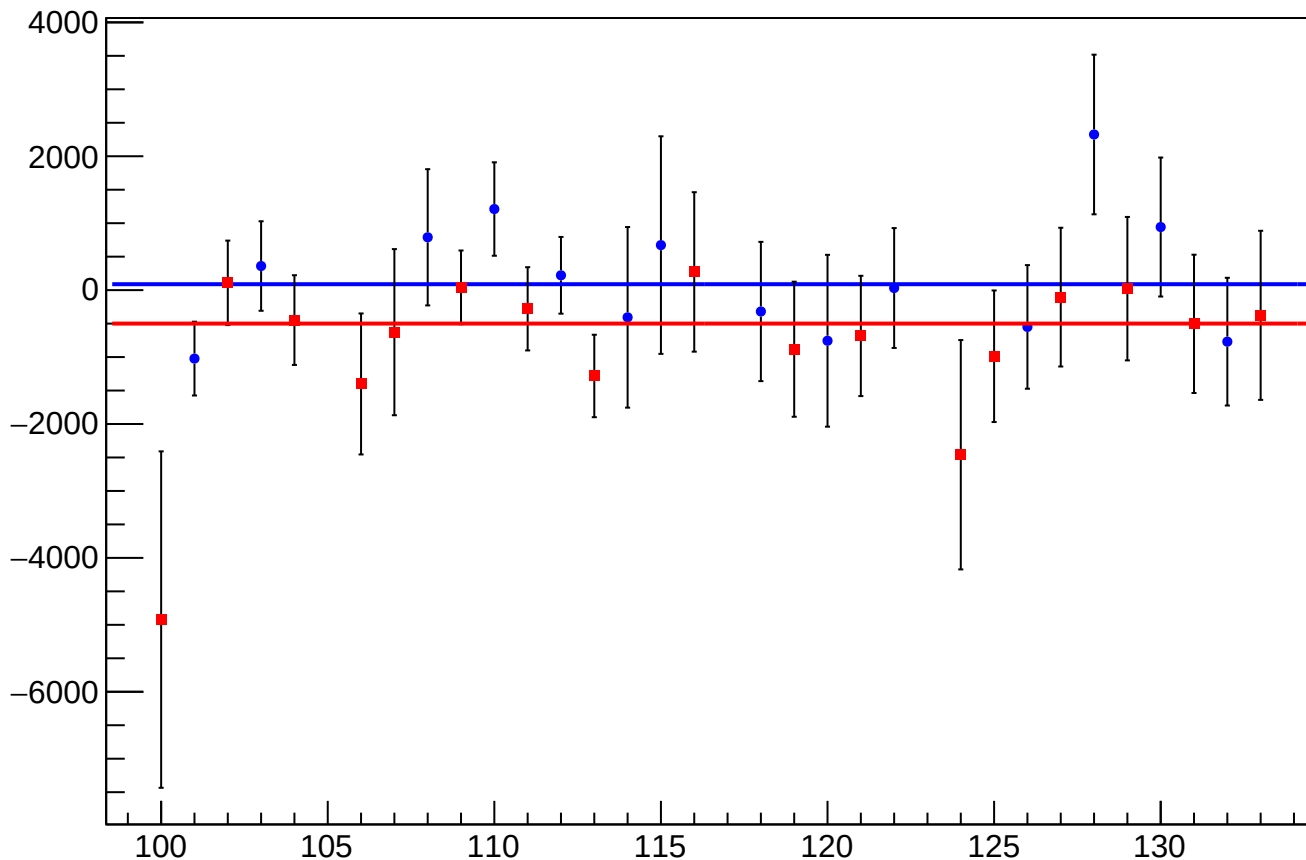
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 60.623+/-0.013  $\chi^2/\text{NDF}$ : 1243907.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 88.501 $\pm$ 228.198  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -499.656 $\pm$ 210.171  $\chi^2$ /NDF: 10.0/16

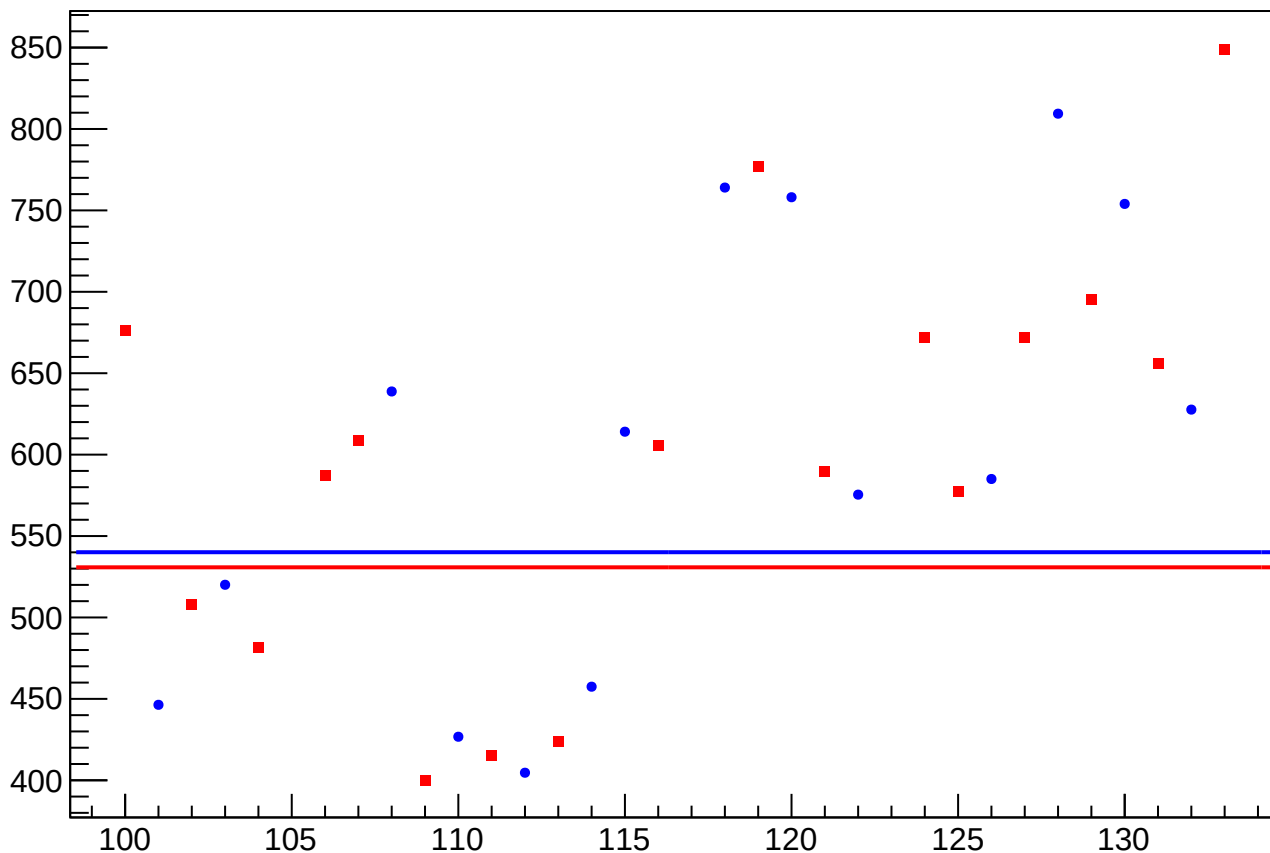
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -229.724 $\pm$ 154.594  $\chi^2$ /NDF: 27.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 540.069+/-0.161  $\chi^2/\text{NDF}$ : 616597.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 530.791+/-0.149  $\chi^2/\text{NDF}$ : 670245.3/16

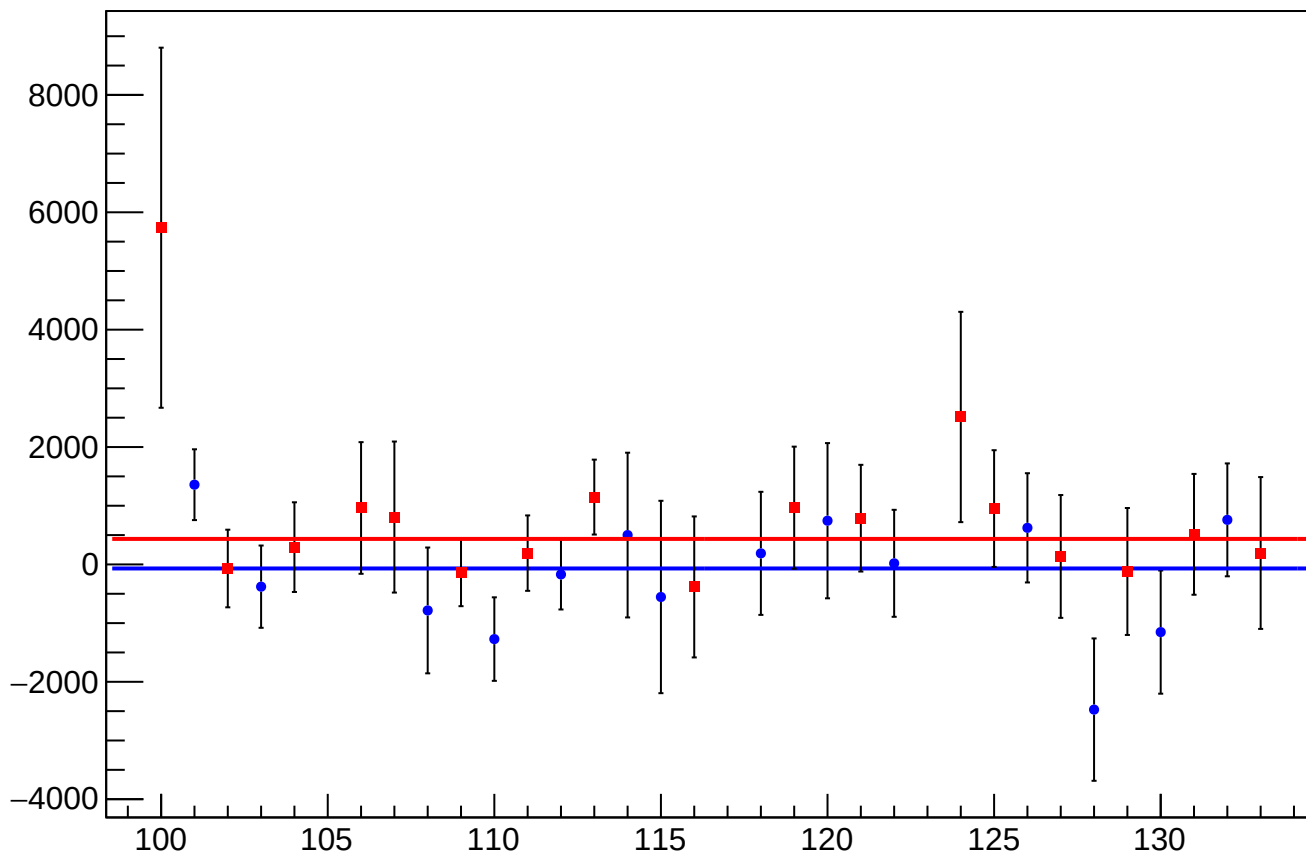
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 535.049+/-0.109  $\chi^2/\text{NDF}$ : 1288631.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_avg\_mean vs Slug



Right In:  $-68.931 \pm 236.888$   $\chi^2/\text{NDF}$ : 16.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $434.615 \pm 219.163$   $\chi^2/\text{NDF}$ : 9.1/16

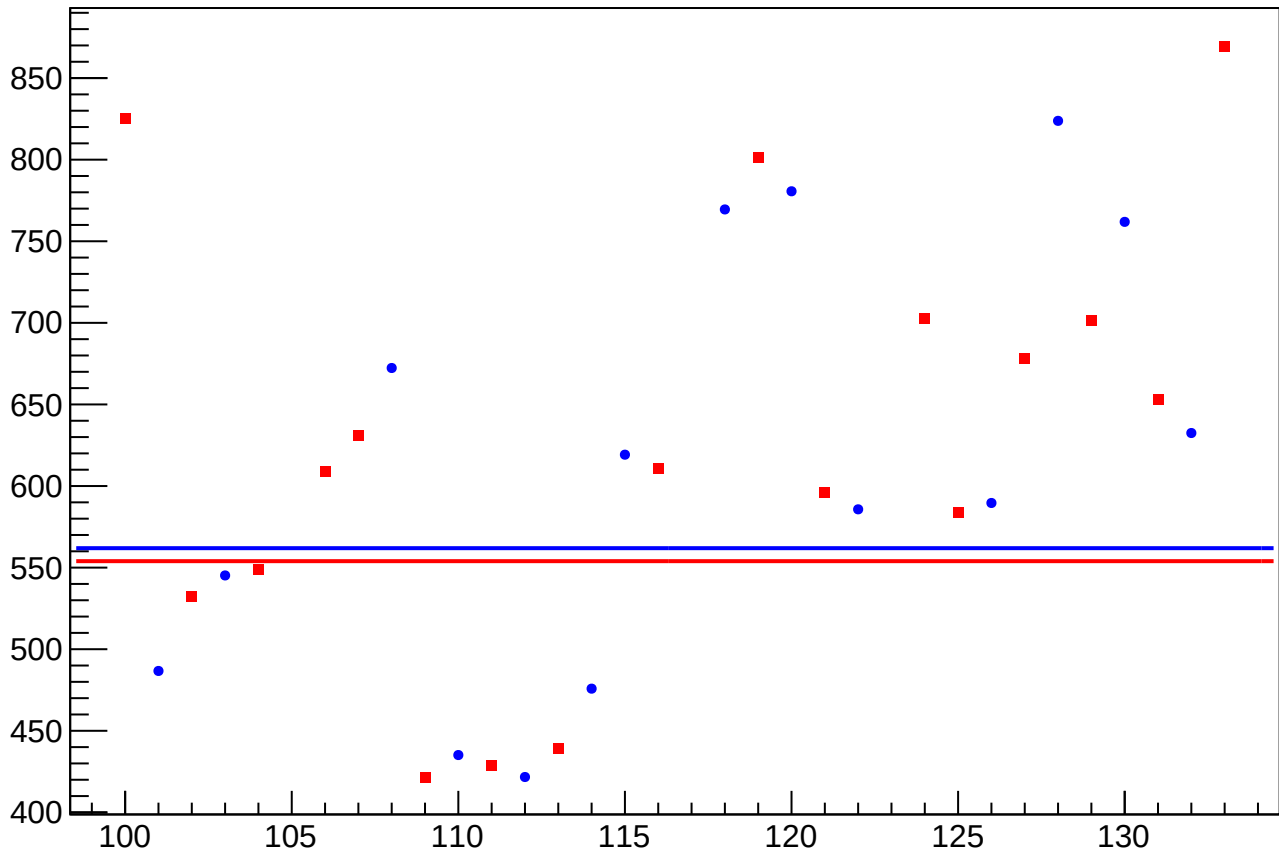
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $202.383 \pm 160.874$   $\chi^2/\text{NDF}$ : 27.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_avg\_rms vs Slug



Right In: 561.917+/-0.168  $\chi^2/\text{NDF}$ : 549992.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 553.956+/-0.155  $\chi^2/\text{NDF}$ : 615114.3/16

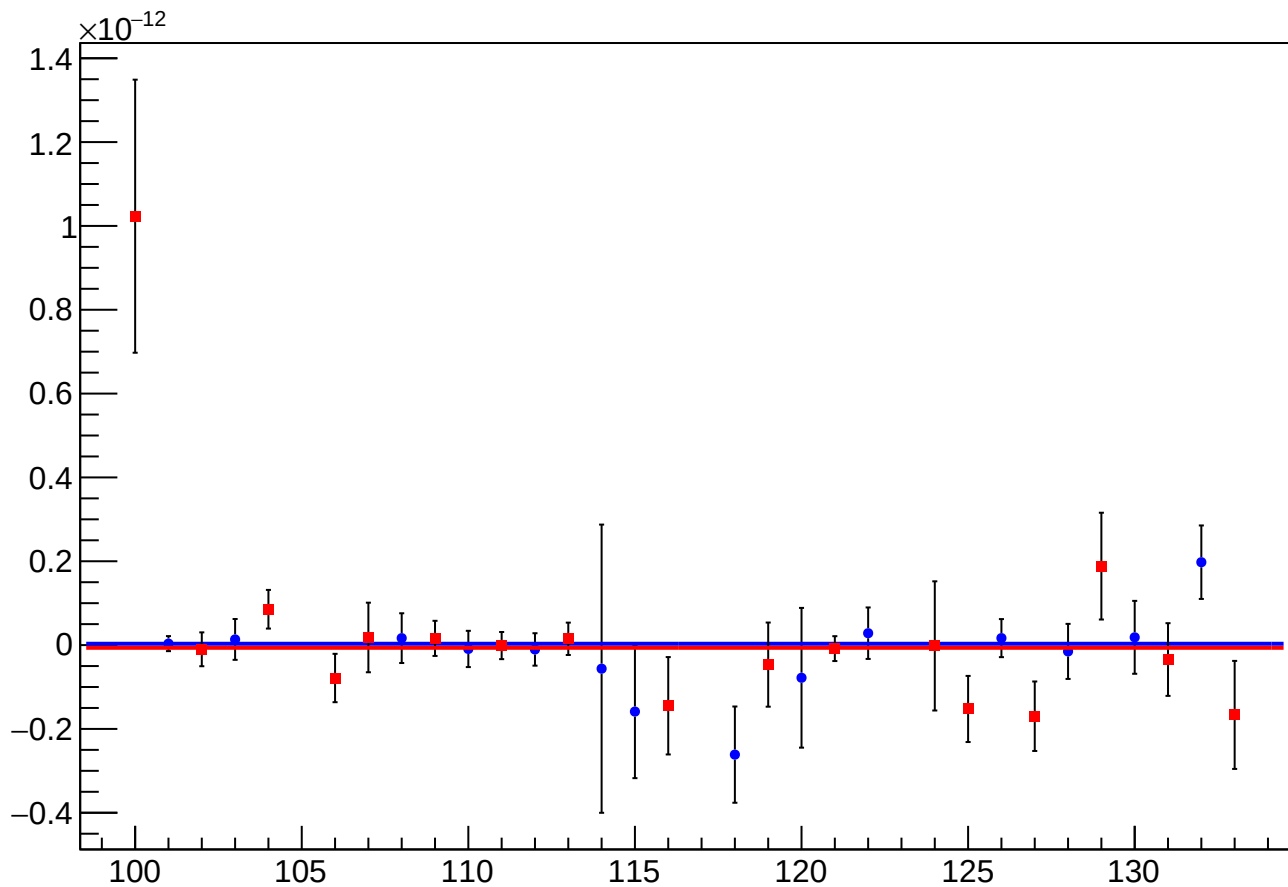
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 557.627+/-0.114  $\chi^2/\text{NDF}$ : 1166323.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 29.1/16

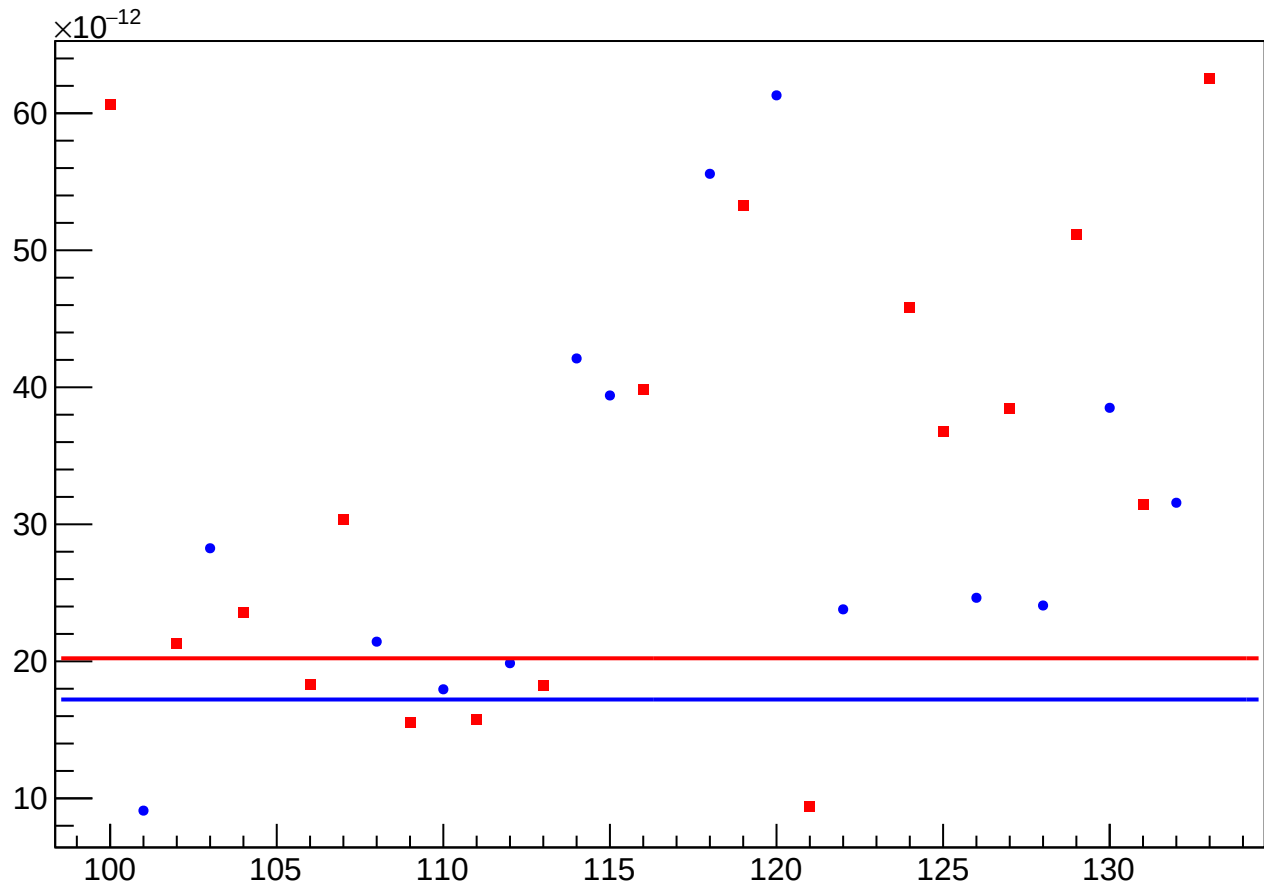
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 41.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1216594.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1289260.0/16

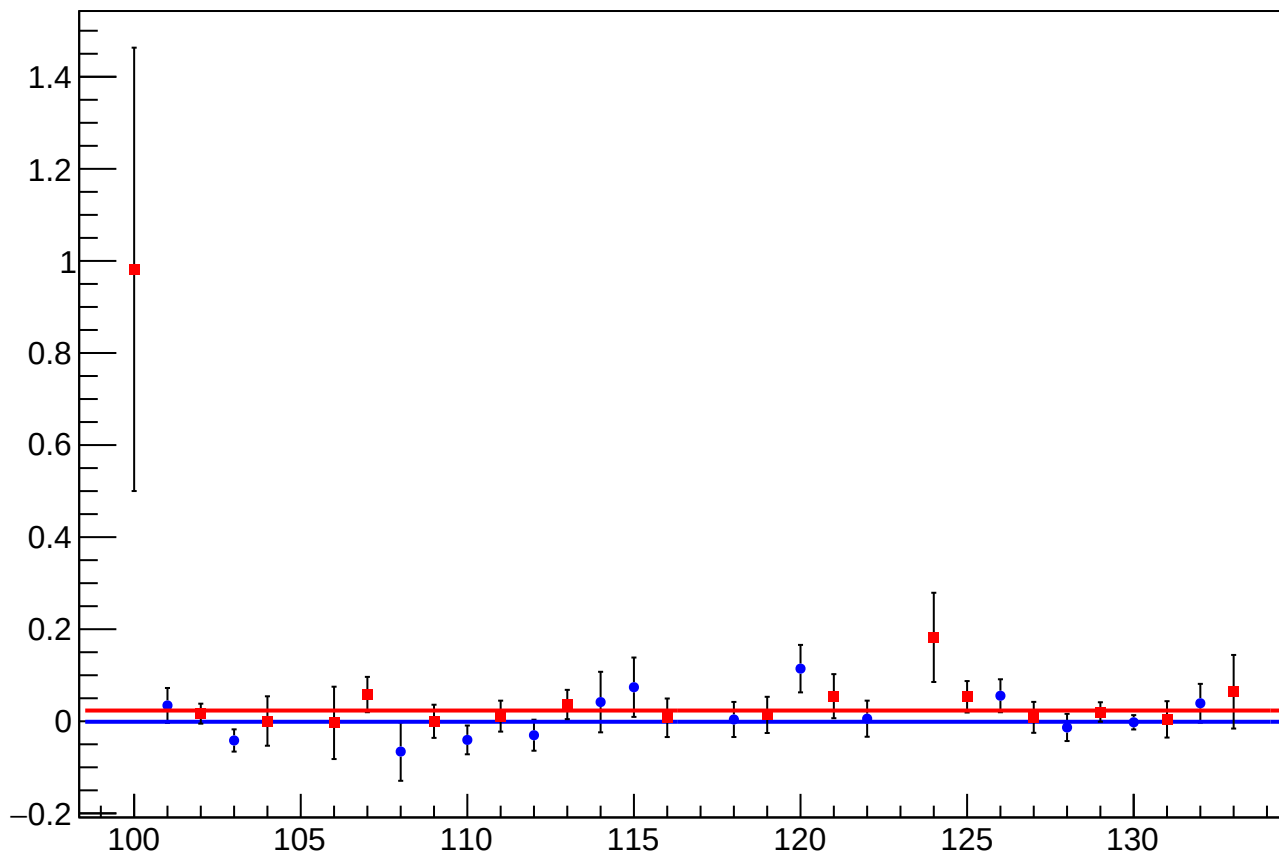
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2560218.5/30

- 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: -0.001+/-0.009  $\chi^2/\text{NDF}$ : 17.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.023+/-0.009  $\chi^2/\text{NDF}$ : 10.7/16

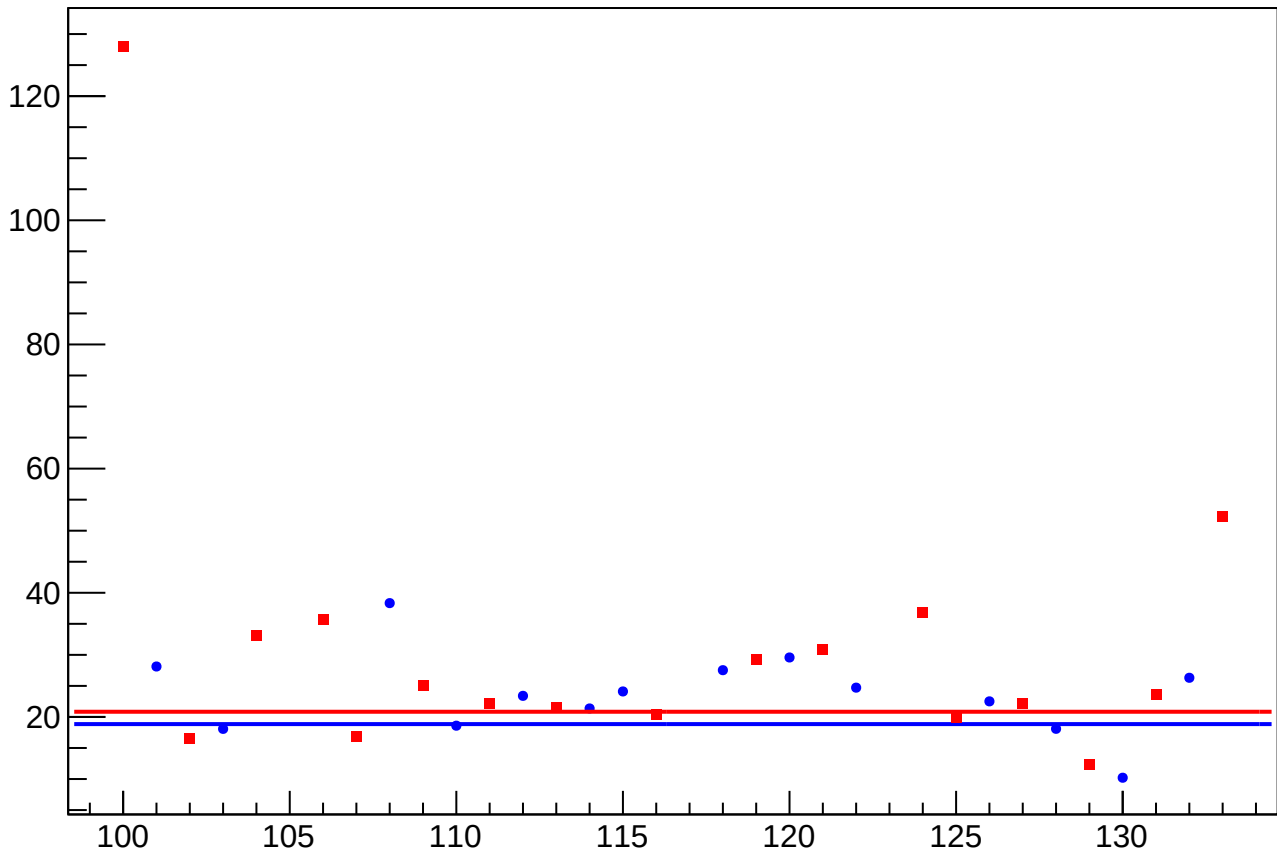
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.006  $\chi^2/\text{NDF}$ : 32.0/30

- 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: 18.848+/-0.006  $\chi^2/\text{NDF}$ : 1298371.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.837+/-0.006  $\chi^2/\text{NDF}$ : 1281476.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

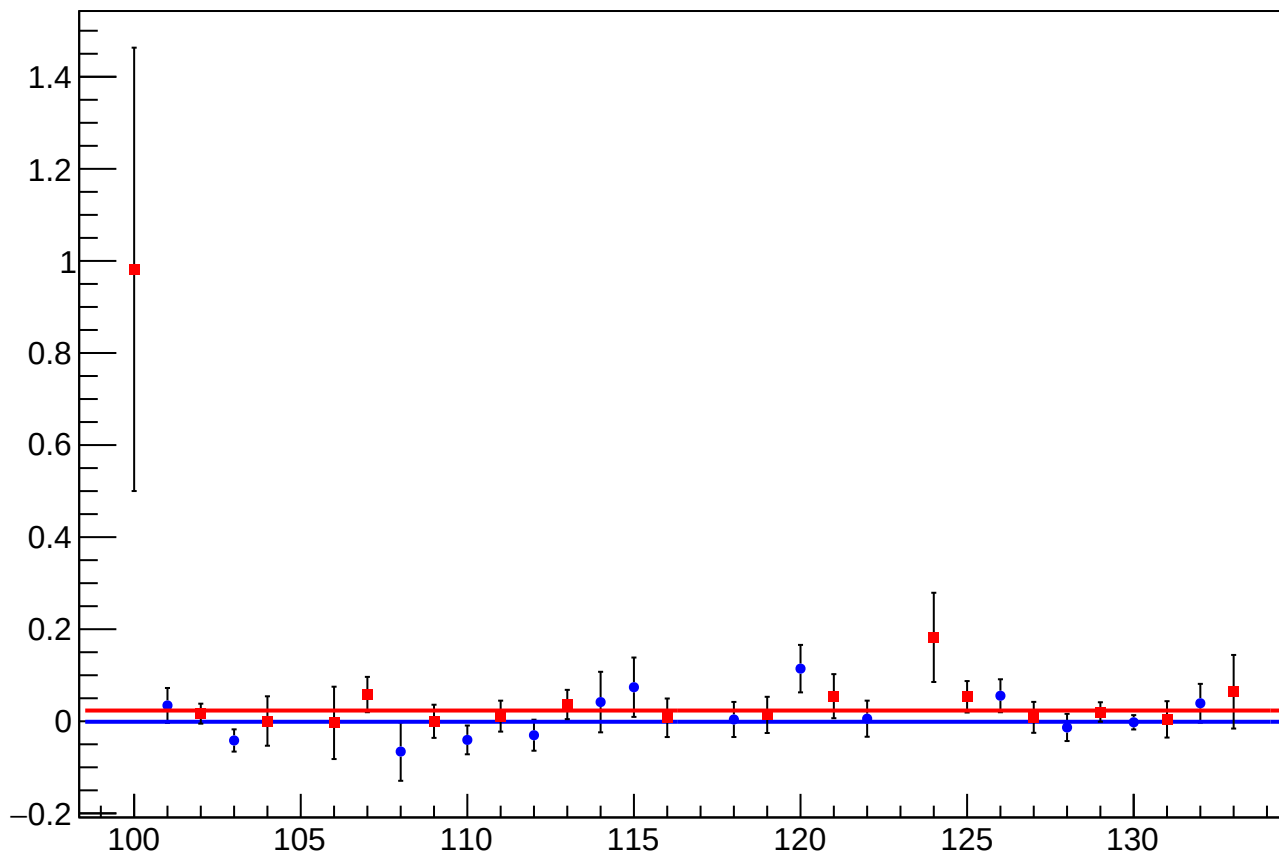
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.809+/-0.004  $\chi^2/\text{NDF}$ : 2630945.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.001+/-0.009  $\chi^2/\text{NDF}$ : 17.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.023+/-0.009  $\chi^2/\text{NDF}$ : 10.7/16

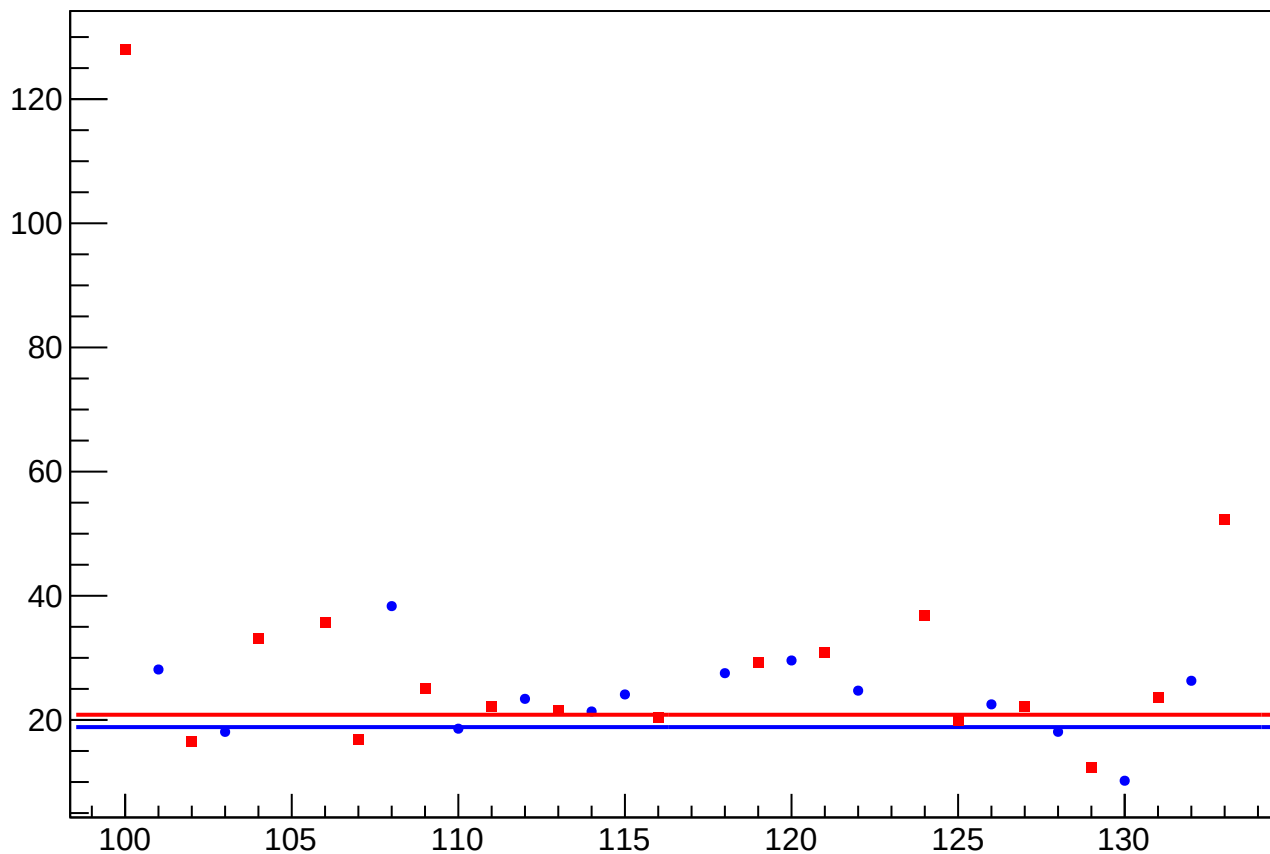
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.006  $\chi^2/\text{NDF}$ : 32.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 18.848+/-0.006  $\chi^2/\text{NDF}$ : 1298371.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.837+/-0.006  $\chi^2/\text{NDF}$ : 1281476.0/16

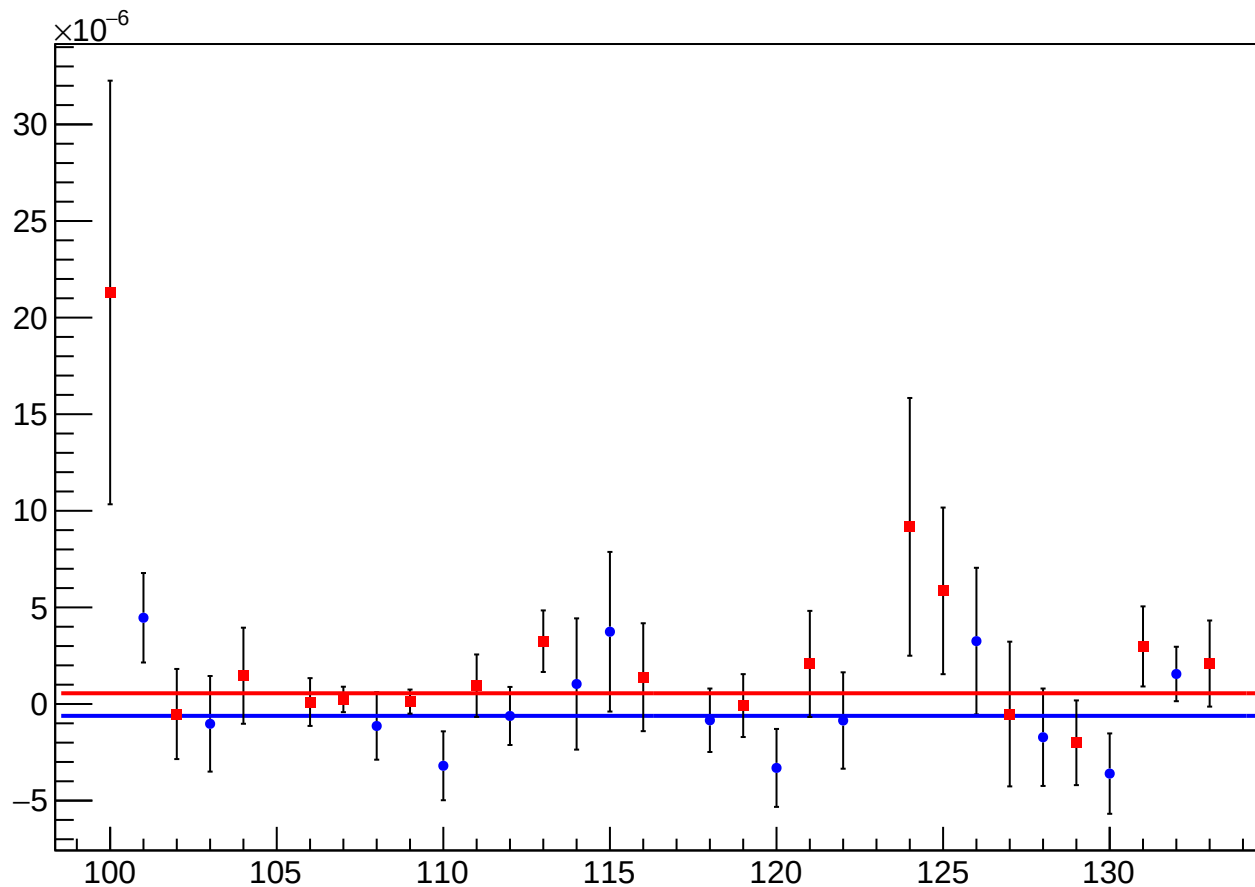
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.809+/-0.004  $\chi^2/\text{NDF}$ : 2630945.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14.7/16

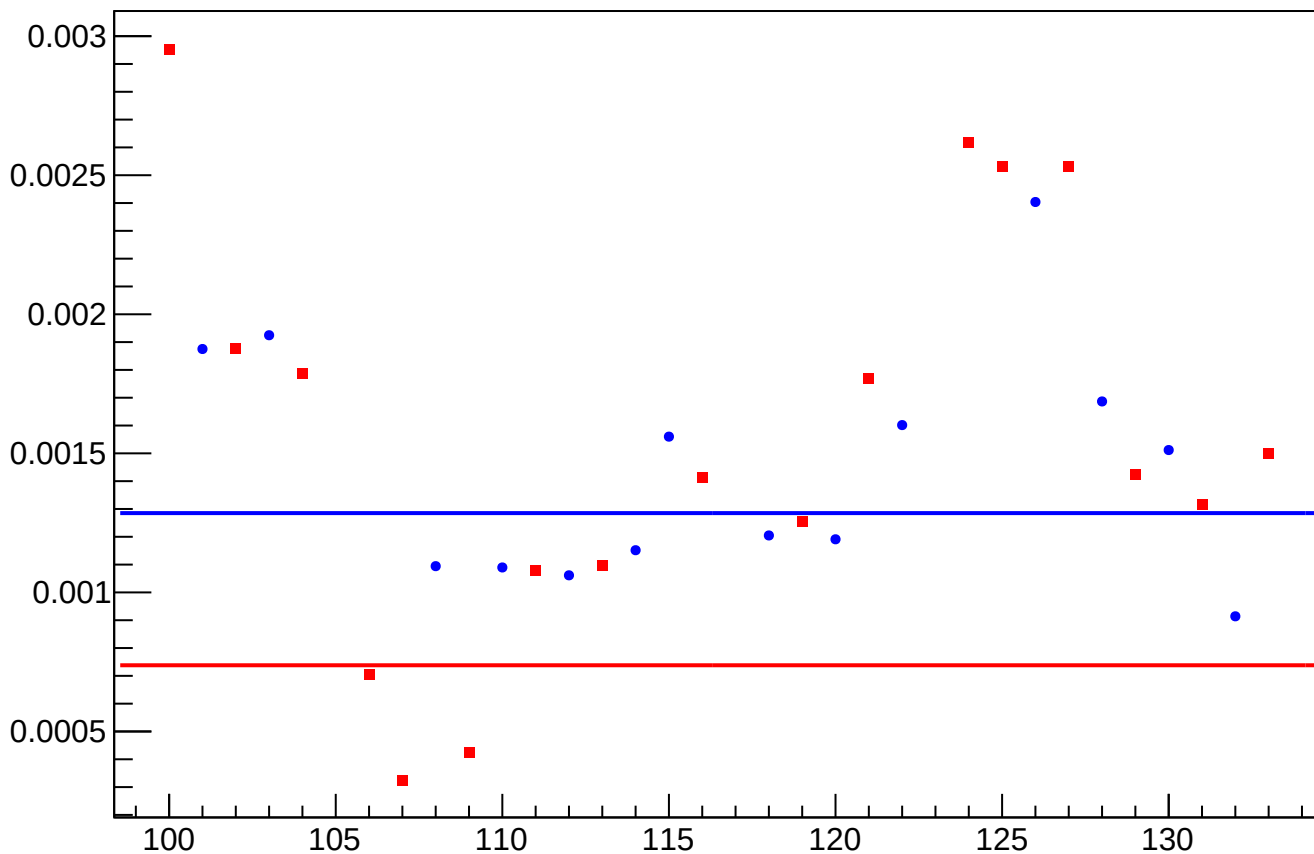
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 33.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 795983.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 4551644.4/16

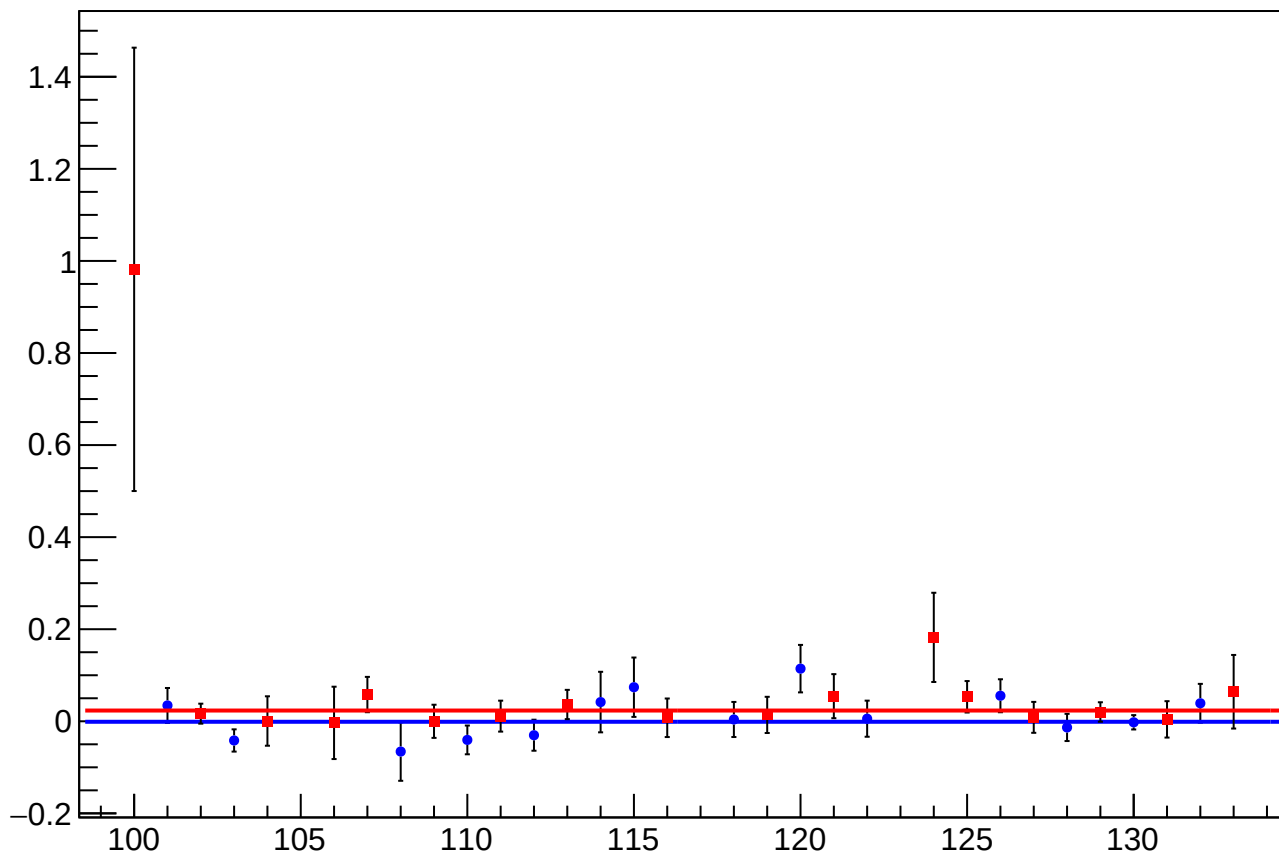
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 6757360.0/30

- 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: -0.001 $\pm$ 0.009  $\chi^2$ /NDF: 17.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.023 $\pm$ 0.009  $\chi^2$ /NDF: 10.7/16

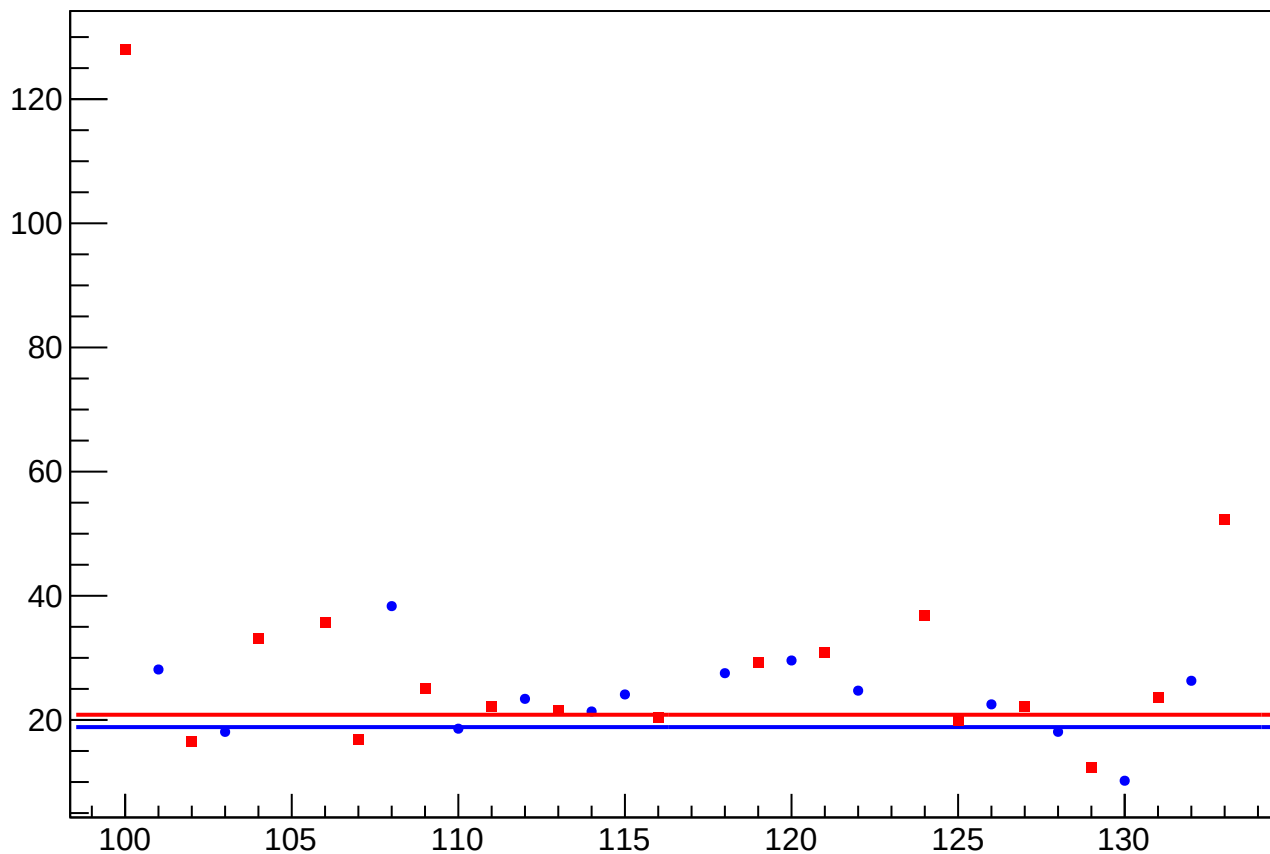
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.006  $\chi^2$ /NDF: 32.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 18.848+/-0.006  $\chi^2/\text{NDF}$ : 1298280.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.837+/-0.006  $\chi^2/\text{NDF}$ : 1281473.1/16

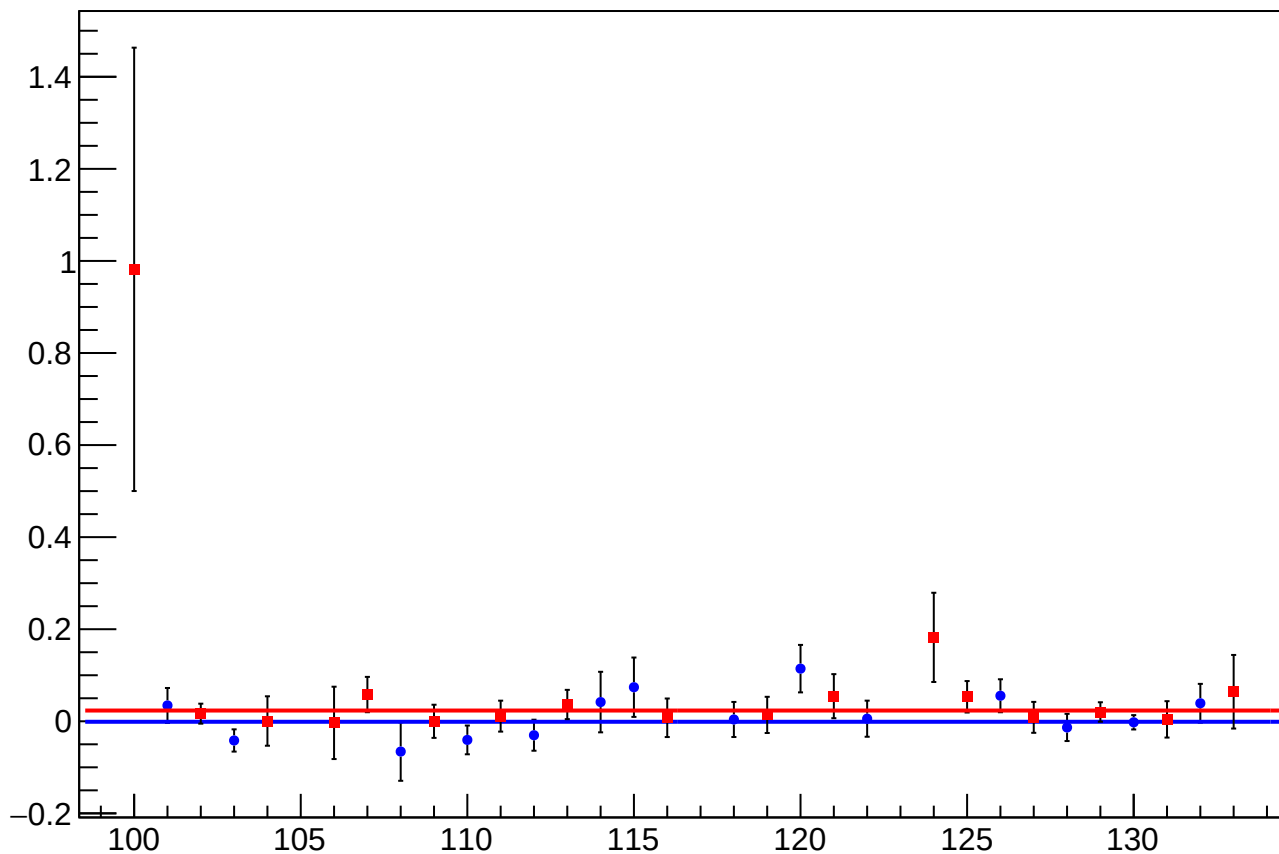
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.809+/-0.004  $\chi^2/\text{NDF}$ : 2630839.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: -0.001 $\pm$ 0.009  $\chi^2$ /NDF: 17.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.023 $\pm$ 0.009  $\chi^2$ /NDF: 10.7/16

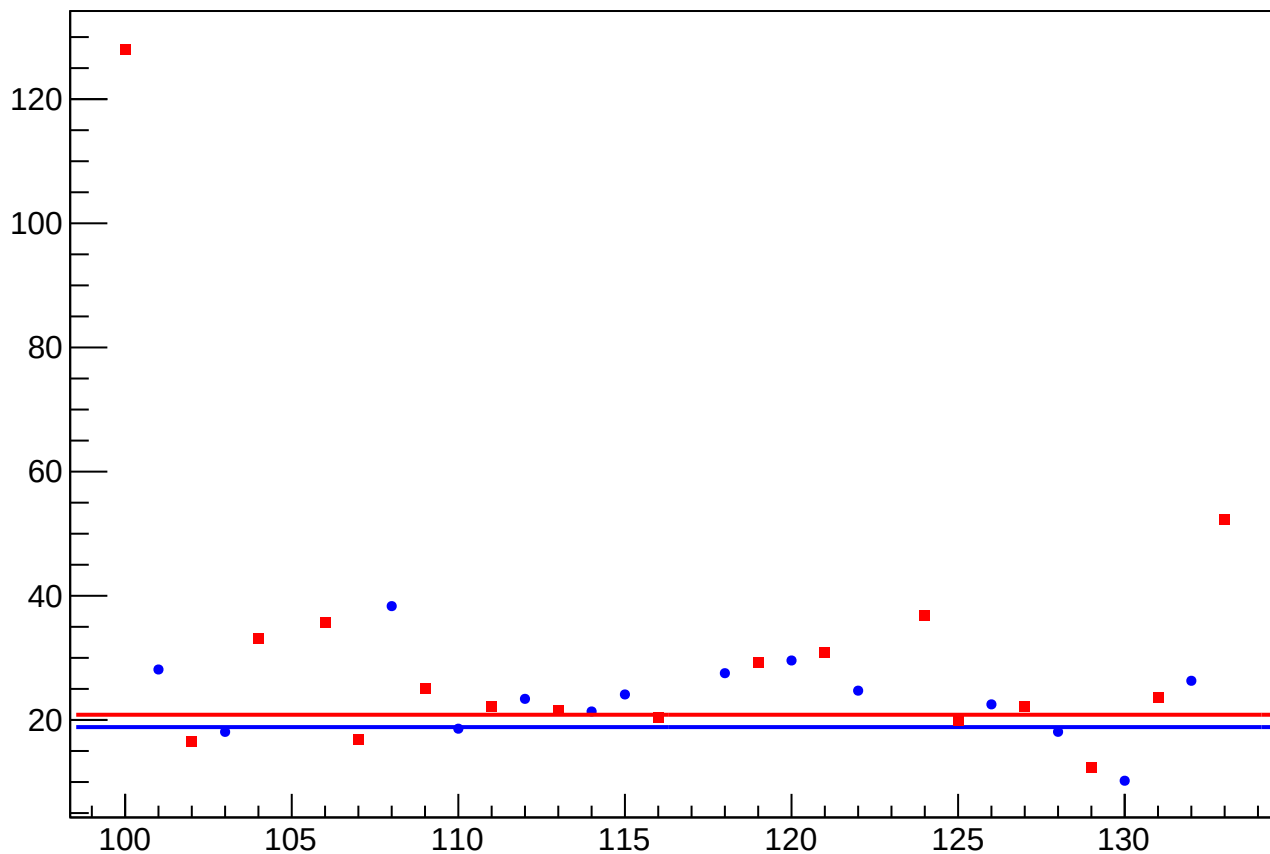
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.006  $\chi^2$ /NDF: 32.0/30

- 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: 18.848+/-0.006  $\chi^2/\text{NDF}$ : 1298280.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.837+/-0.006  $\chi^2/\text{NDF}$ : 1281473.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

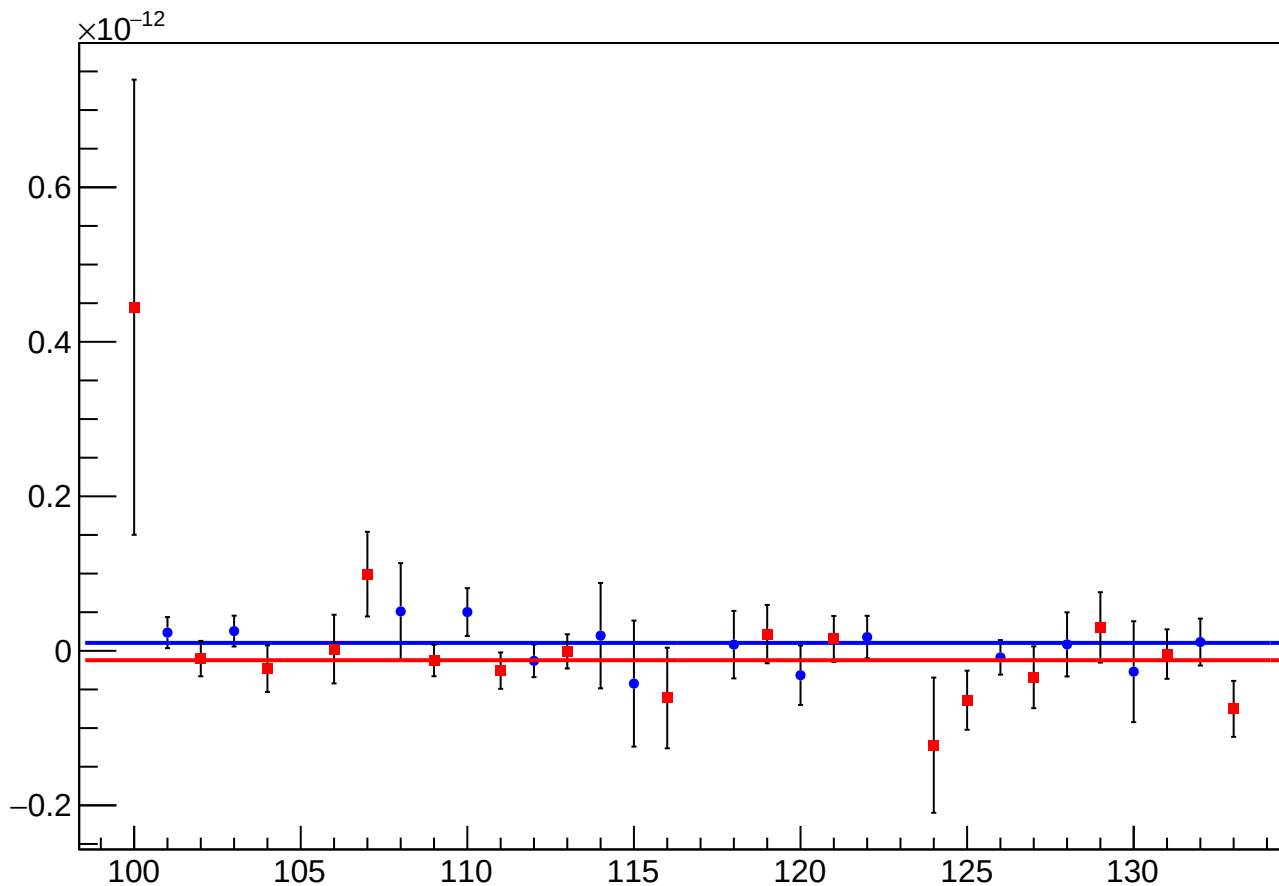
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.809+/-0.004  $\chi^2/\text{NDF}$ : 2630839.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 17.3/16

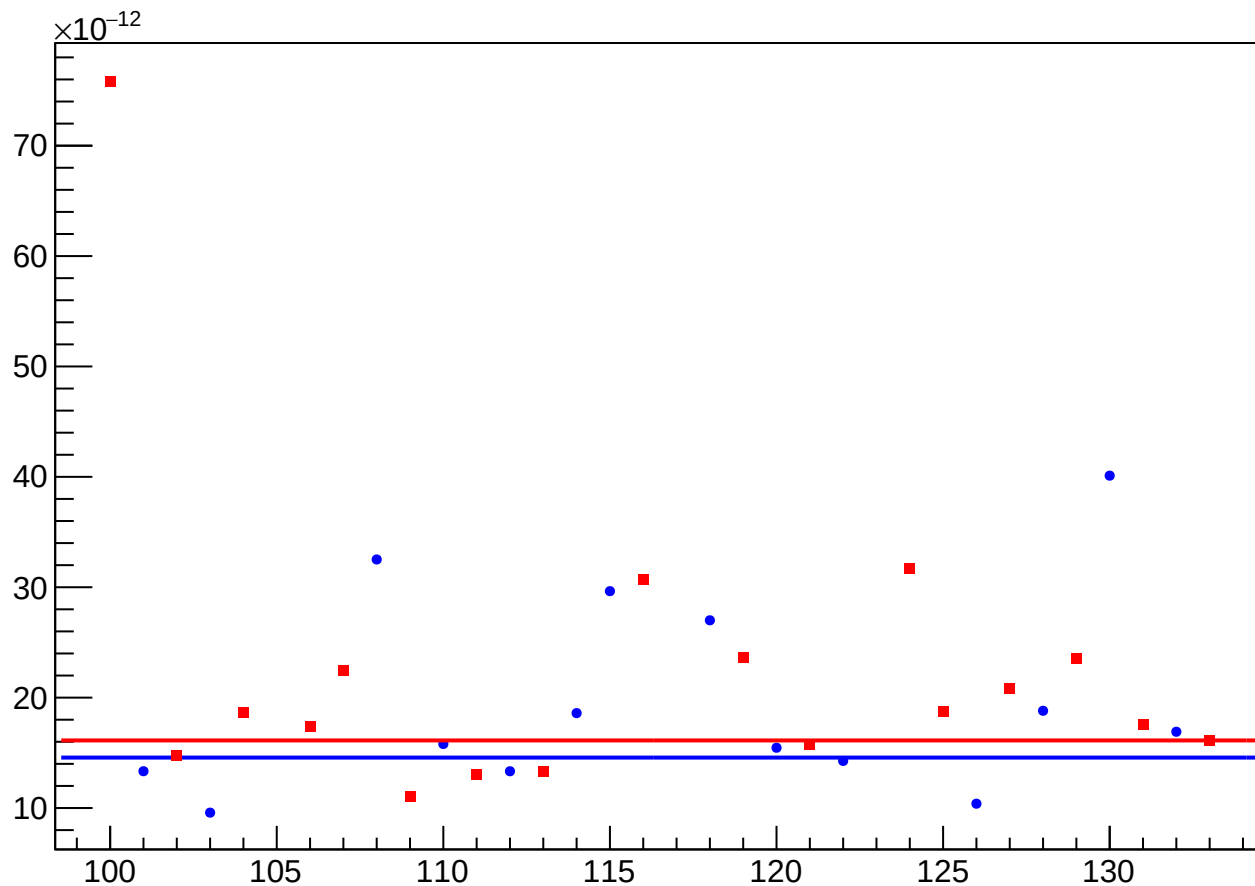
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 28.3/30

- 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  $\chi^2/\text{NDF}$ : 955178.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 659874.7/16

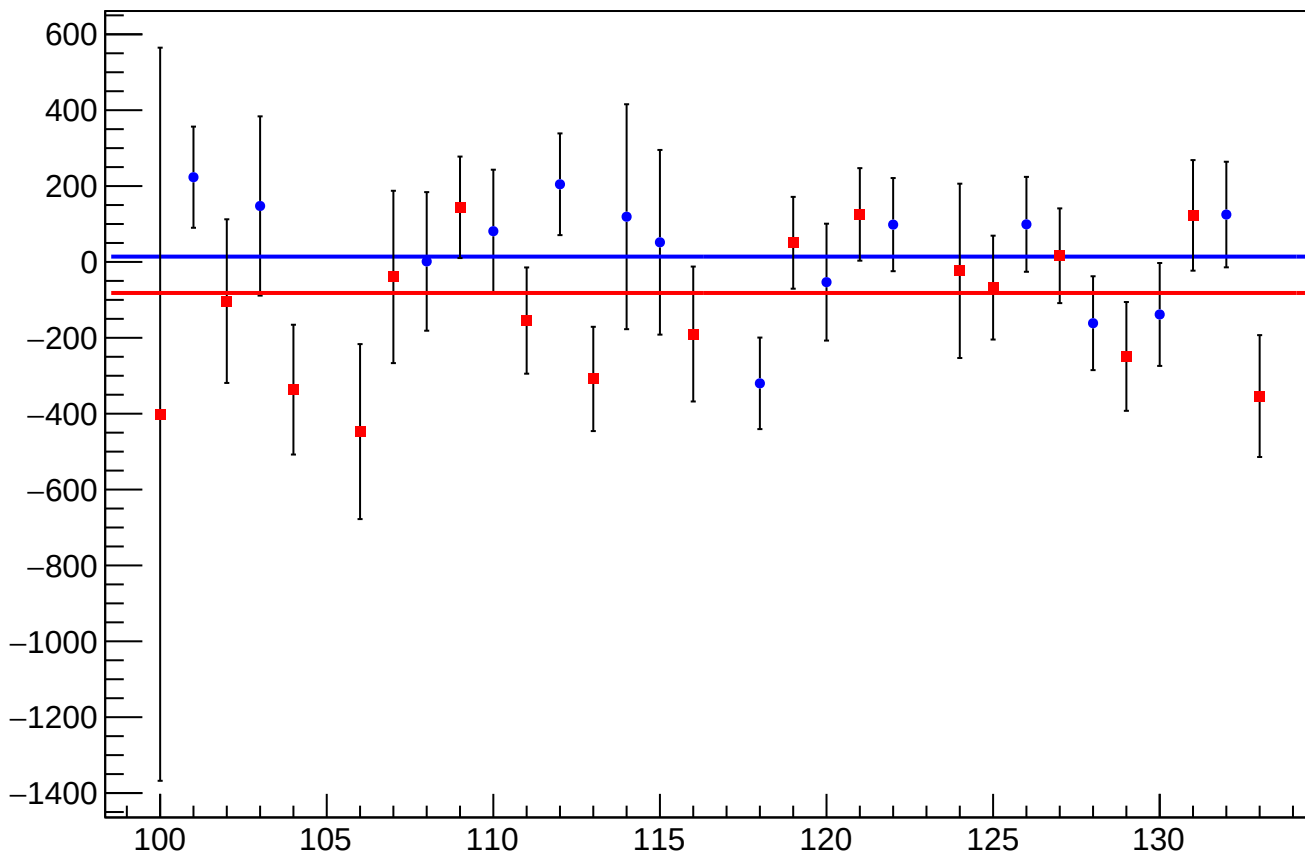
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1652576.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 14.045+/-39.573  $\chi^2/\text{NDF}$ : 17.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -81.796+/-37.991  $\chi^2/\text{NDF}$ : 22.1/16

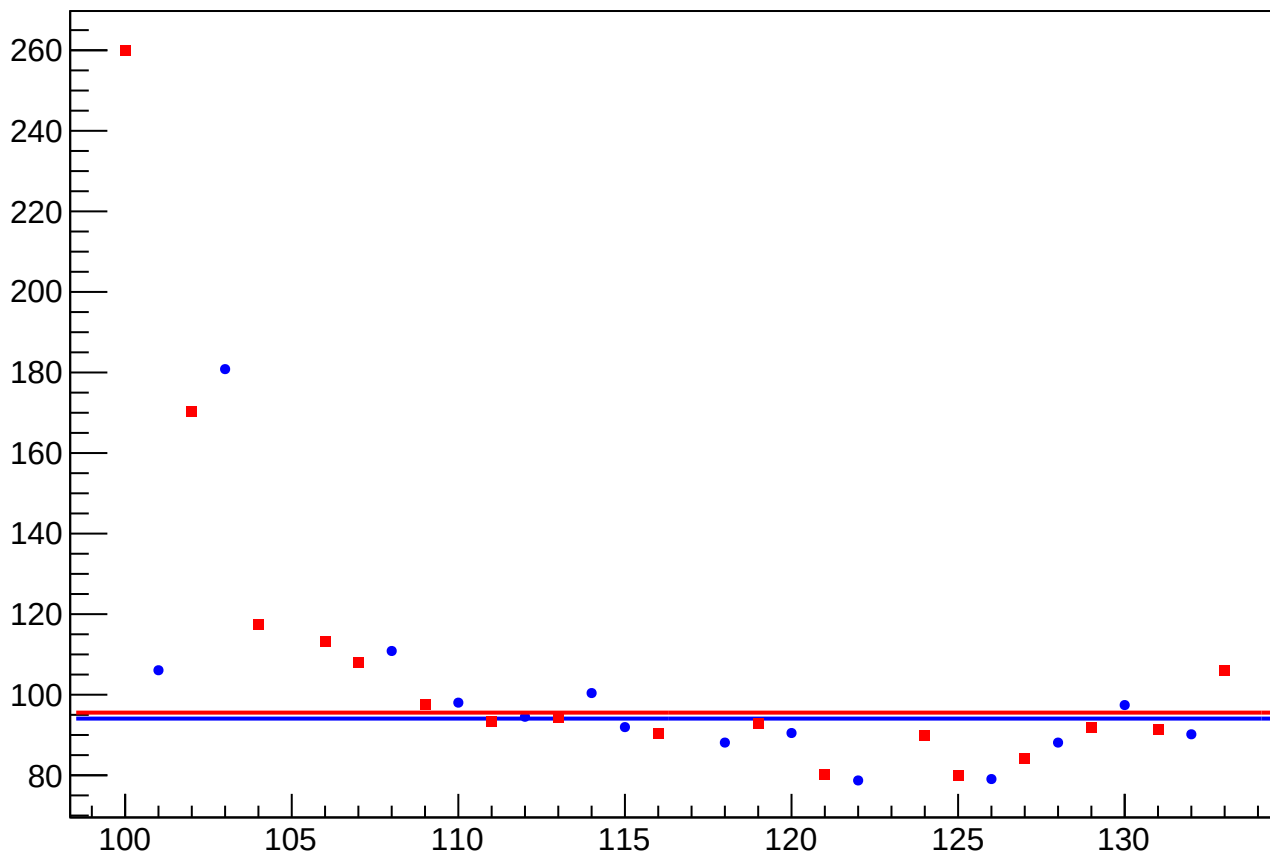
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -35.829+/-27.406  $\chi^2/\text{NDF}$ : 42.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 94.070+/-0.028  $\chi^2/\text{NDF}$ : 378642.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 95.554+/-0.027  $\chi^2/\text{NDF}$ : 439201.0/16

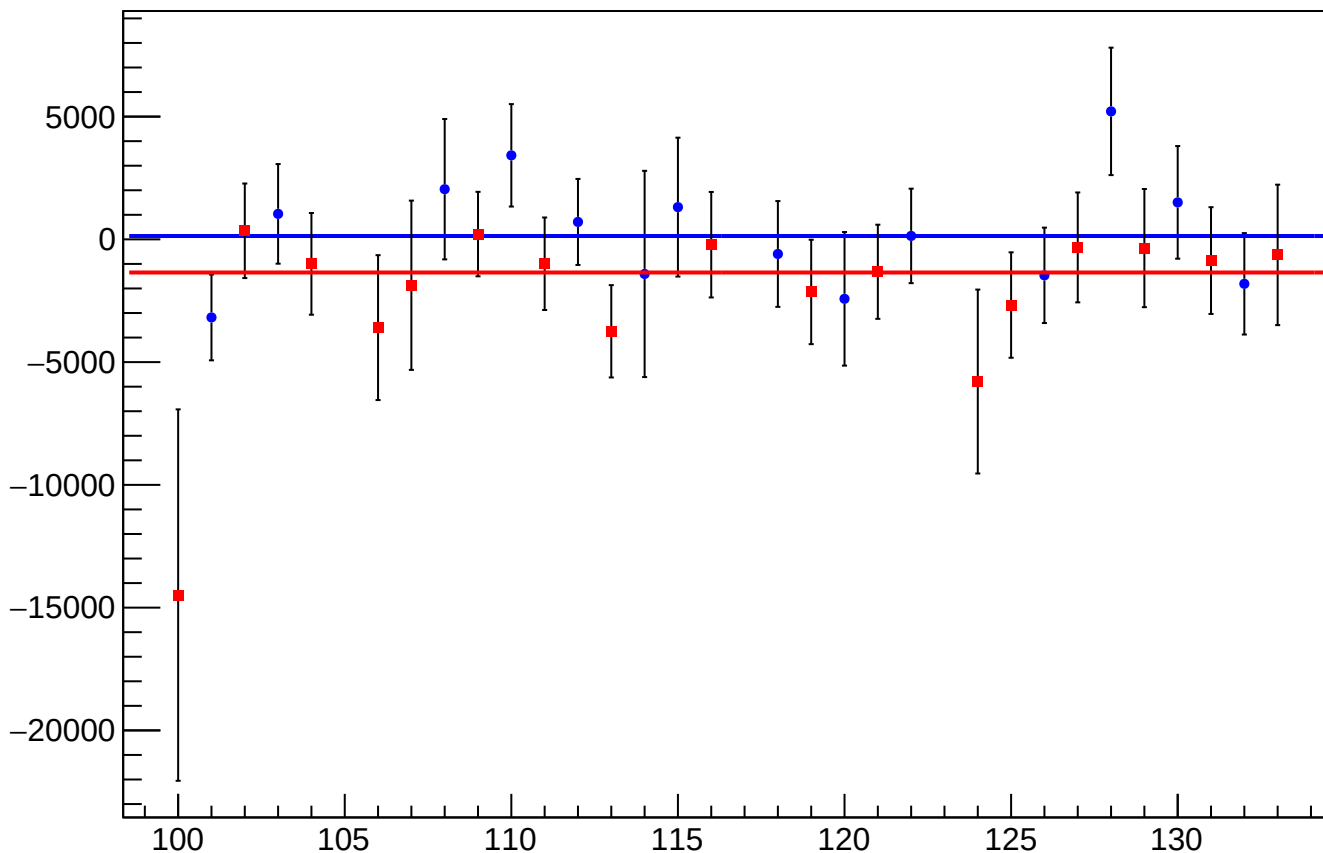
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.842+/-0.019  $\chi^2/\text{NDF}$ : 819306.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_reg\_correction\_mean vs Slug



Right In: 136.313+/-588.411  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1349.382+/-548.353  $\chi^2/\text{NDF}$ : 9.6/16

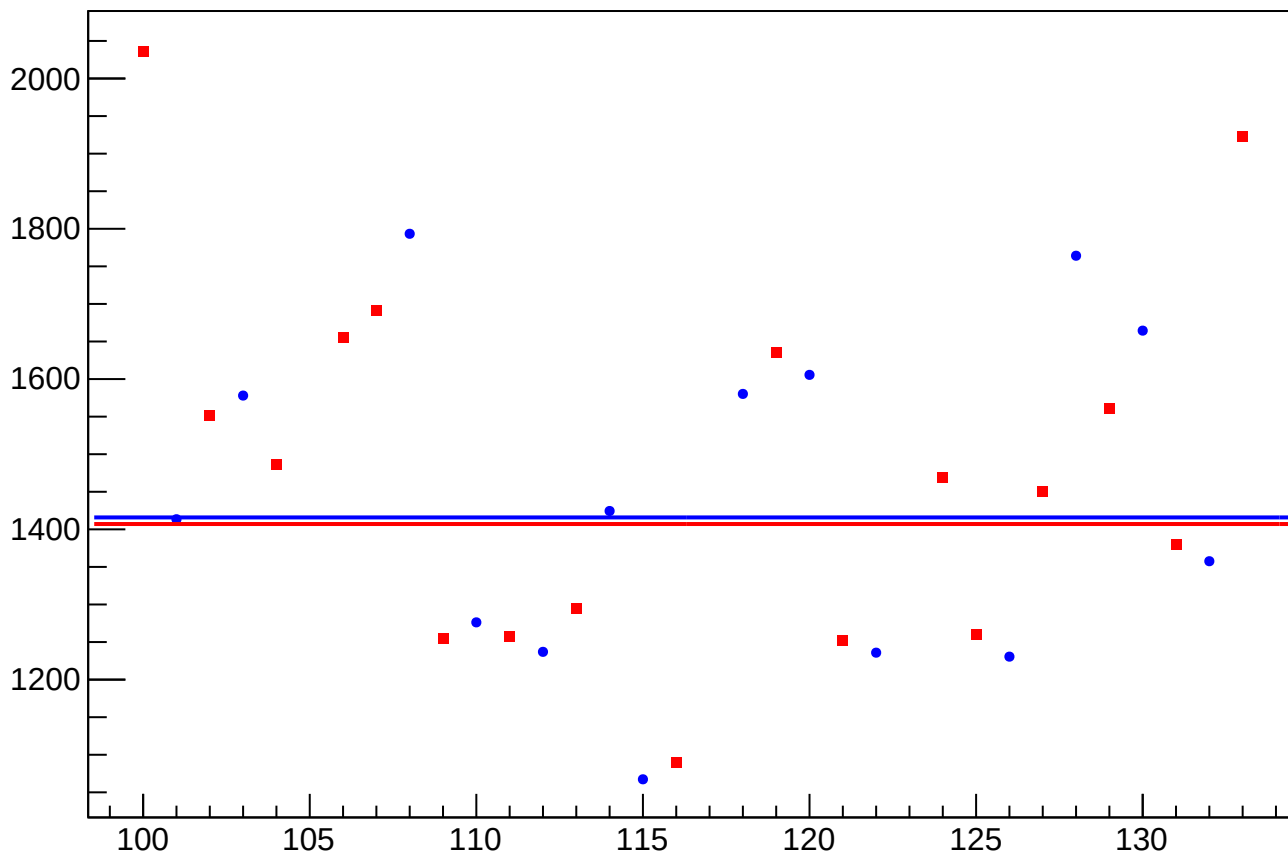
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -658.823+/-401.159  $\chi^2/\text{NDF}$ : 26.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_reg\_correction\_rms vs Slug



Right In: 1415.867 $\pm$ 0.416  $\chi^2$ /NDF: 225997.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1407.089 $\pm$ 0.388  $\chi^2$ /NDF: 254877.4/16

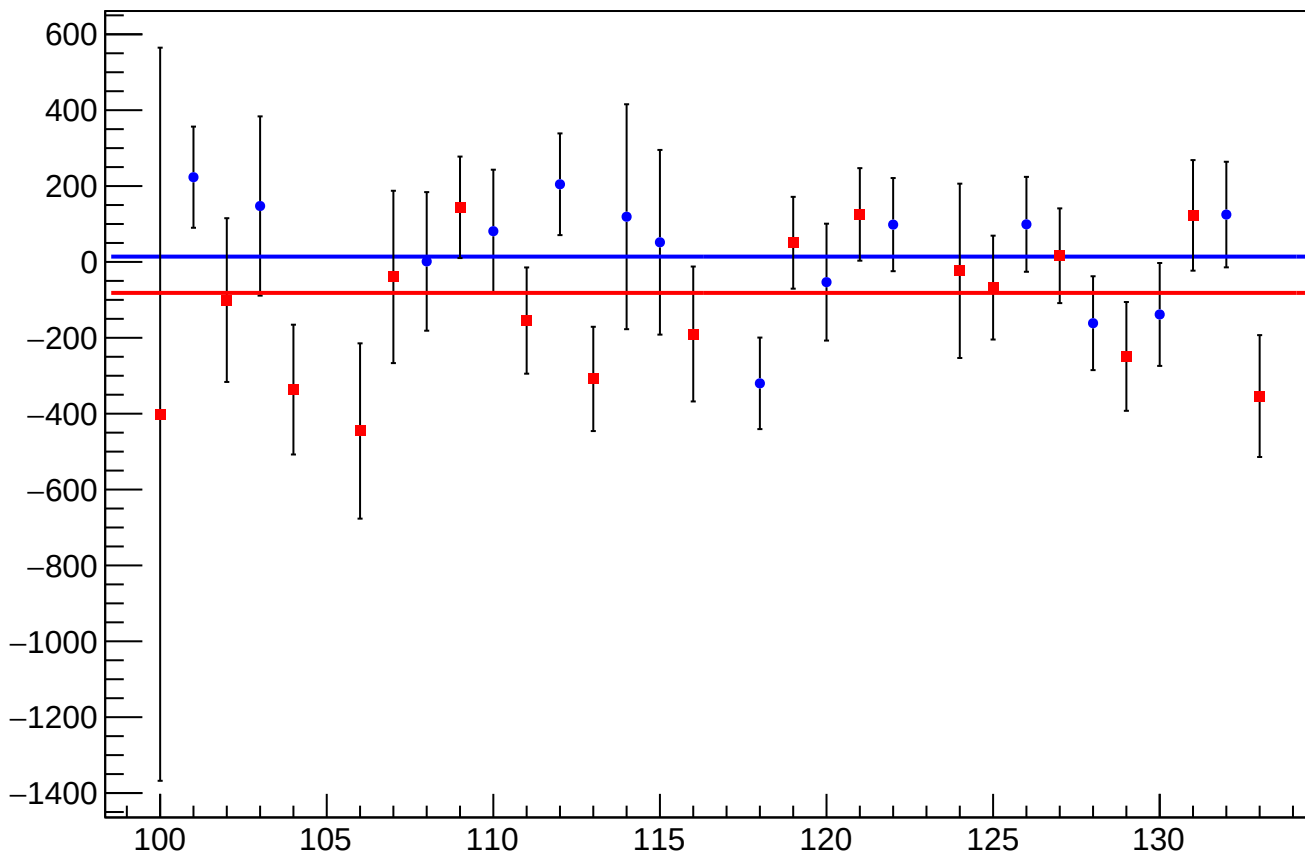
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1411.169 $\pm$ 0.284  $\chi^2$ /NDF: 481113.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# cor\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 14.029+/-39.573  $\chi^2/\text{NDF}$ : 17.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -81.625+/-37.994  $\chi^2/\text{NDF}$ : 22.0/16

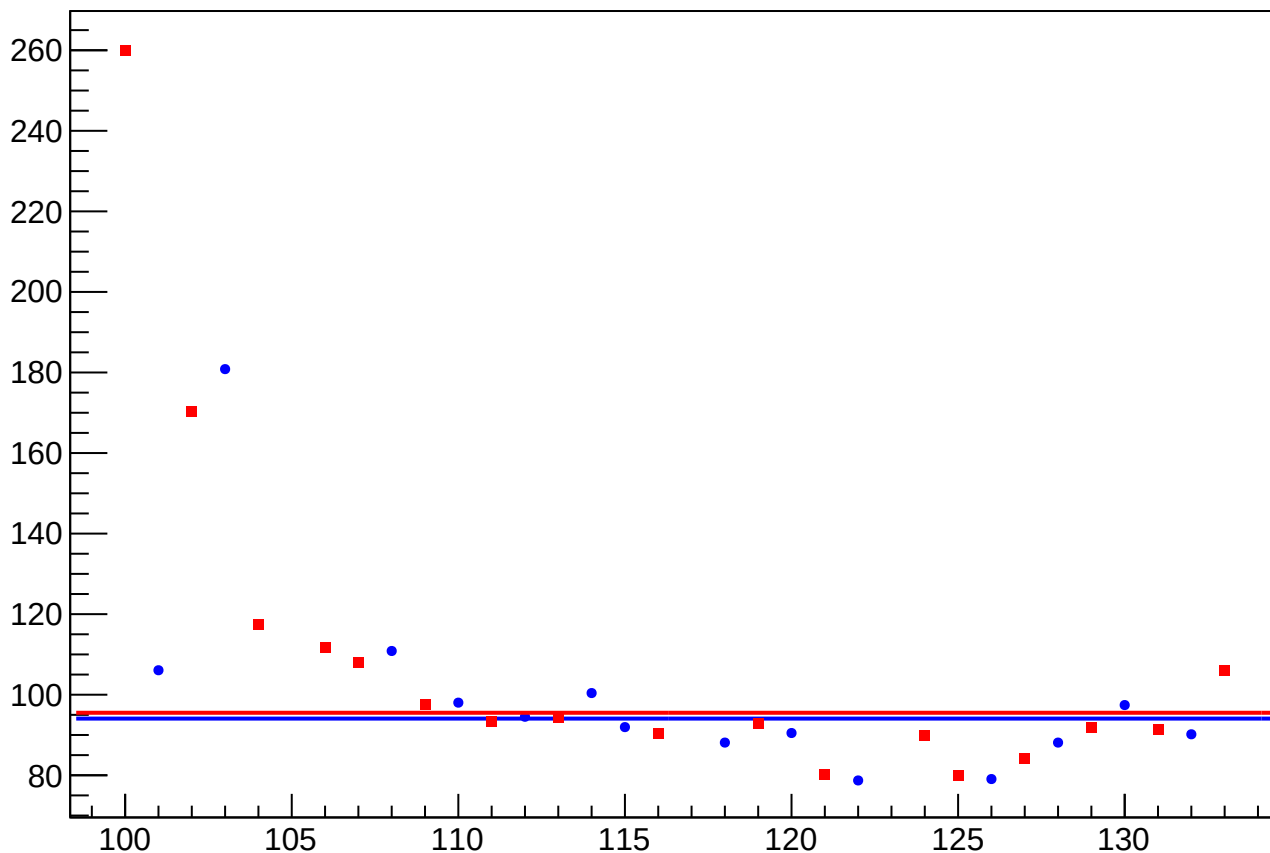
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -35.745+/-27.407  $\chi^2/\text{NDF}$ : 42.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 94.070+/-0.028  $\chi^2/\text{NDF}$ : 378645.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 95.517+/-0.027  $\chi^2/\text{NDF}$ : 437787.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

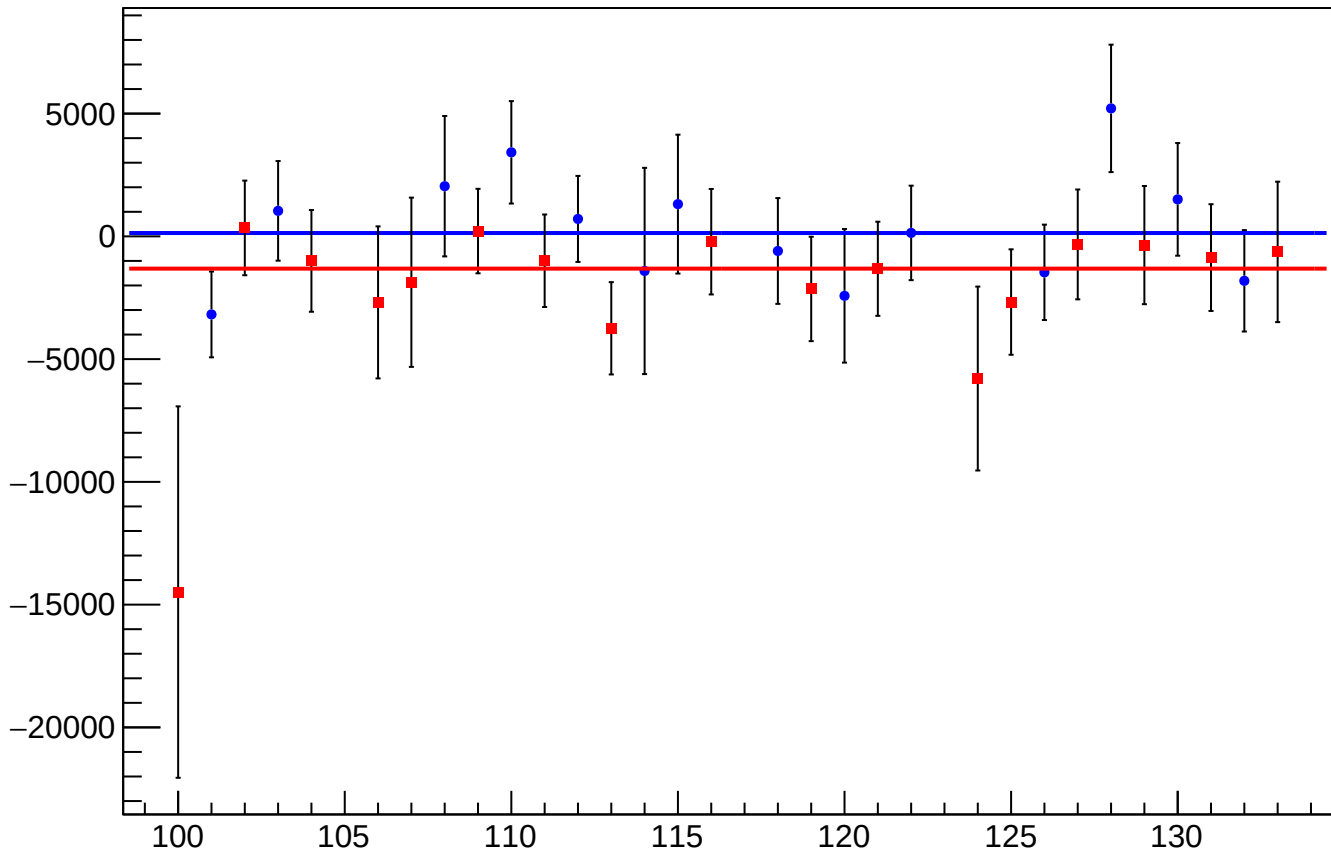
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.823+/-0.019  $\chi^2/\text{NDF}$ : 817823.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_2468\_avg\_cor\_correction\_mean vs Slug



Right In: 136.370 $\pm$ 588.414  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1314.480 $\pm$ 549.253  $\chi^2/\text{NDF}$ : 9.2/16

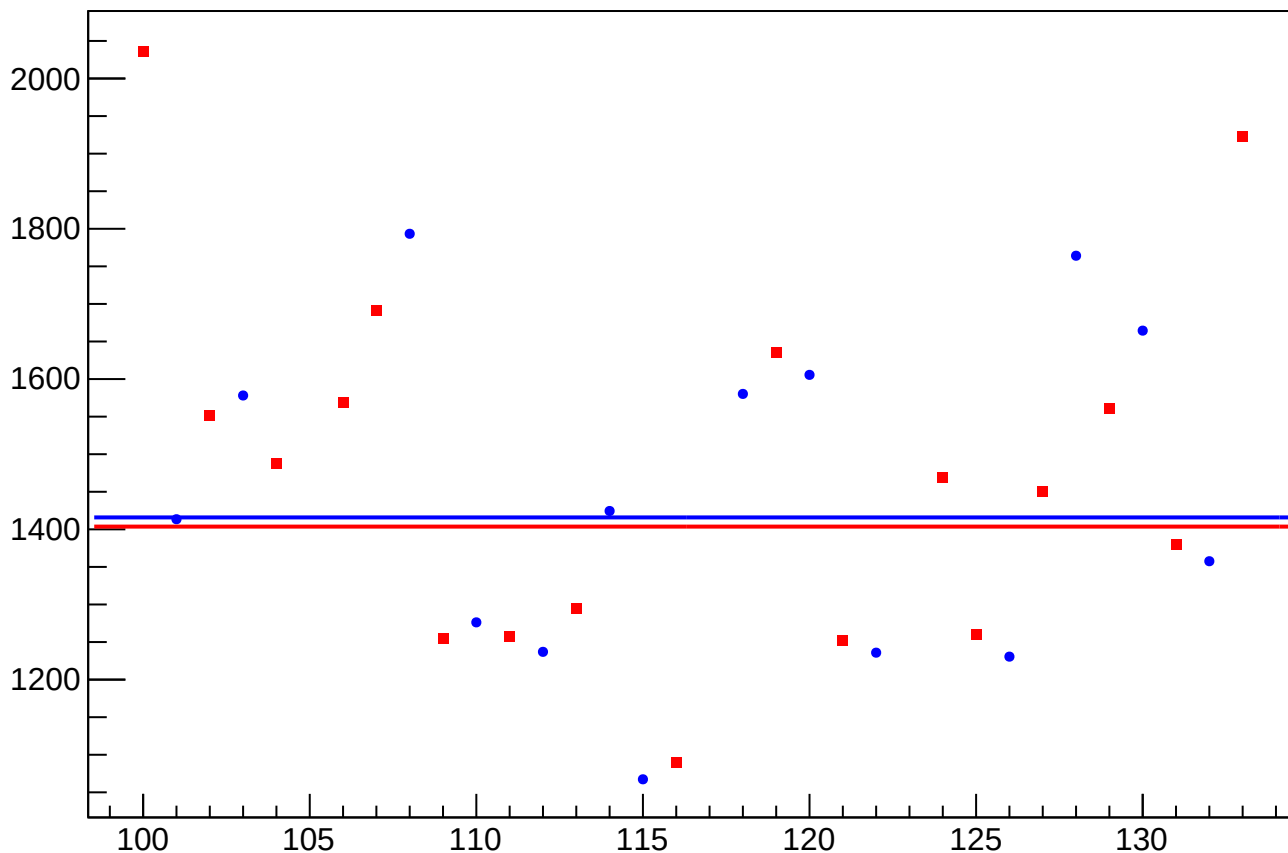
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -638.937 $\pm$ 401.512  $\chi^2/\text{NDF}$ : 26.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_cor\_correction\_rms vs Slug



Right In: 1415.873+/-0.416  $\chi^2/\text{NDF}$ : 226013.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1403.648+/-0.388  $\chi^2/\text{NDF}$ : 246264.9/16

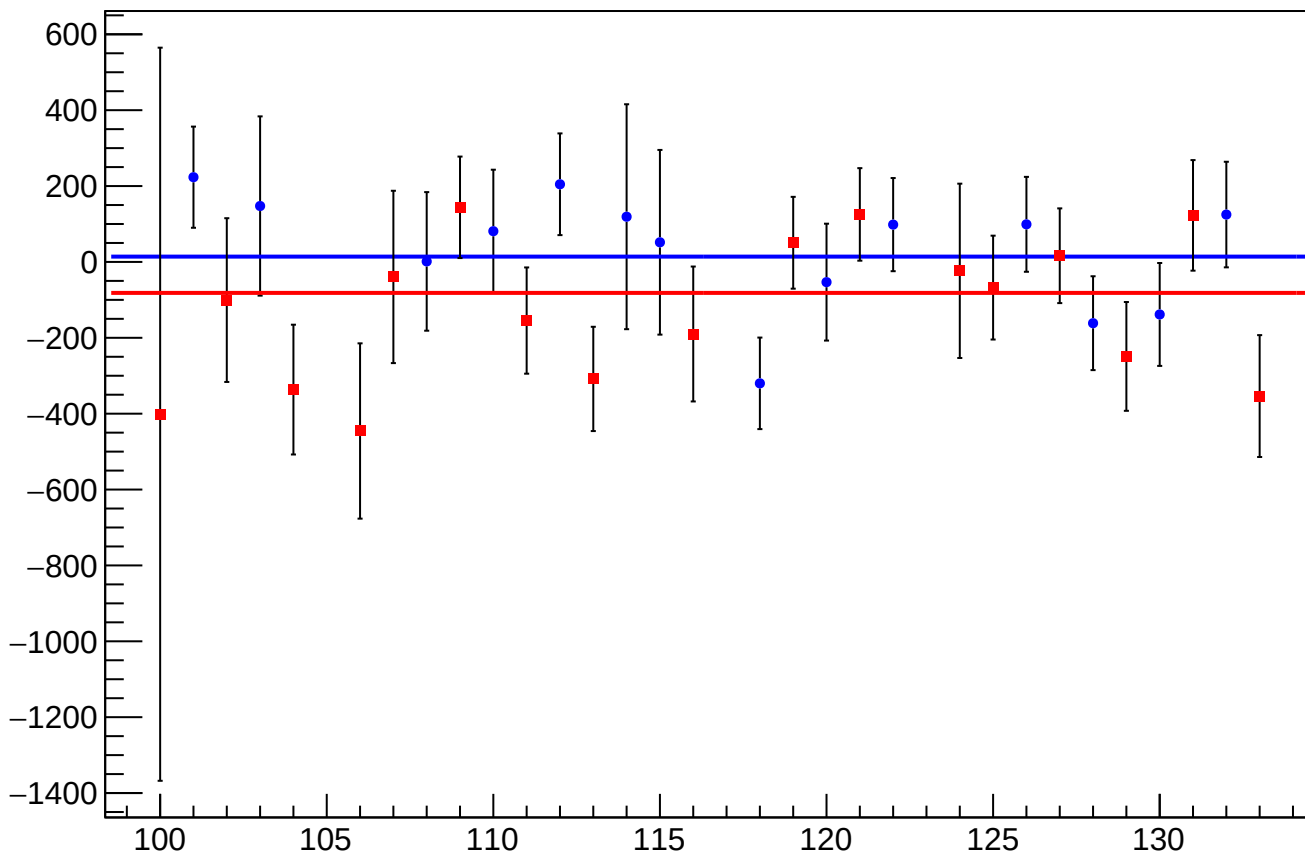
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1409.340+/-0.284  $\chi^2/\text{NDF}$ : 472740.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 14.029+/-39.573  $\chi^2/\text{NDF}$ : 17.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -81.625+/-37.994  $\chi^2/\text{NDF}$ : 22.0/16

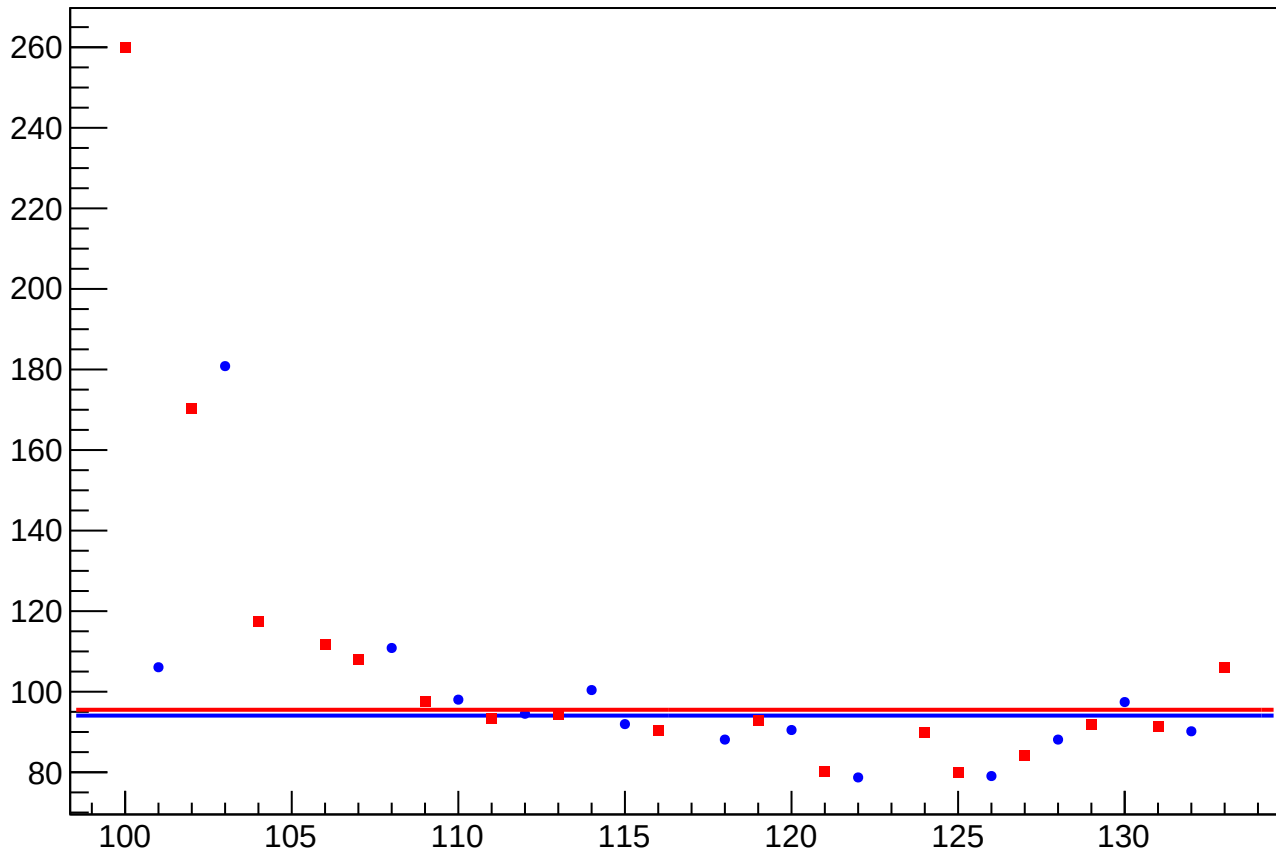
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -35.745+/-27.407  $\chi^2/\text{NDF}$ : 42.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_cor\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 94.070 $\pm$ 0.028  $\chi^2$ /NDF: 378645.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 95.517 $\pm$ 0.027  $\chi^2$ /NDF: 437787.5/16

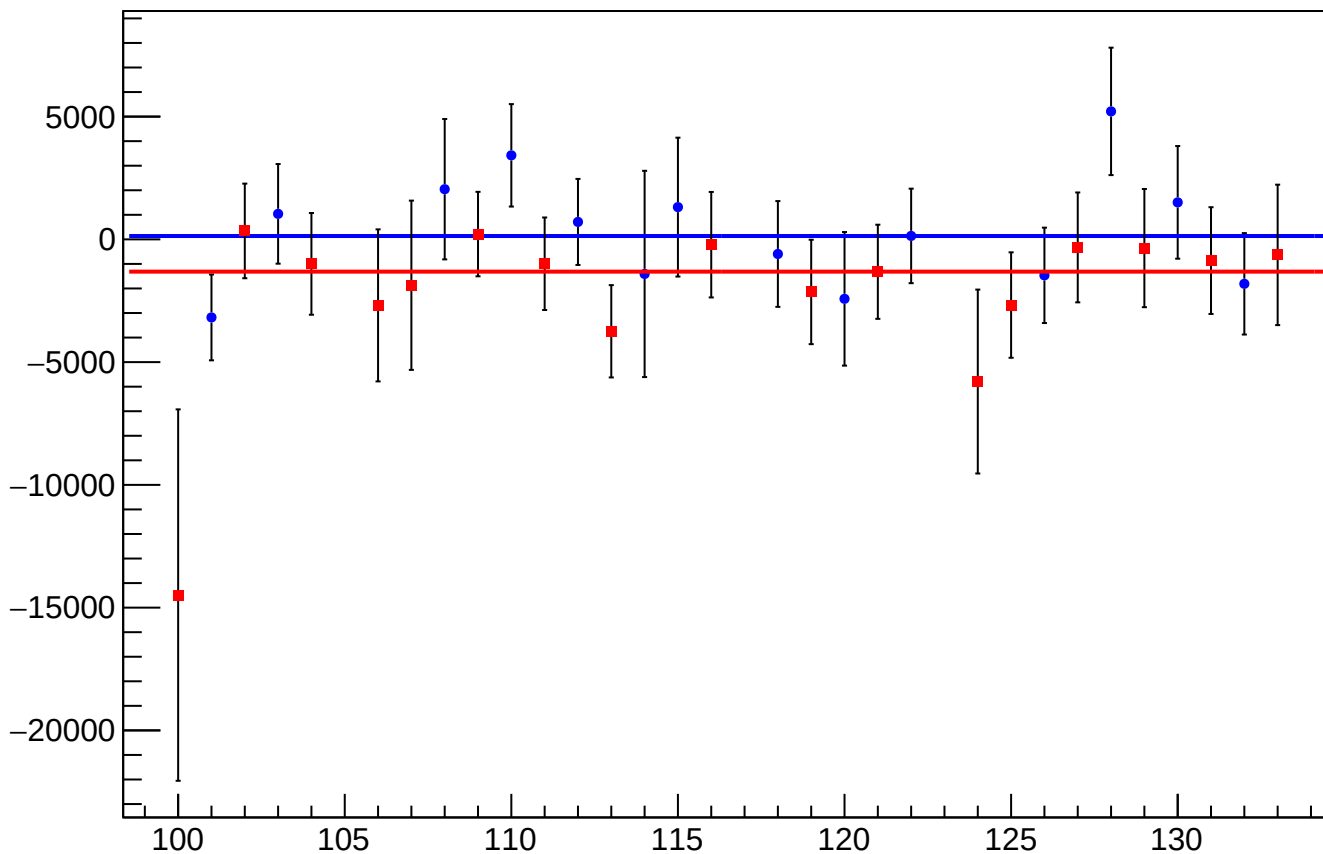
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 94.823 $\pm$ 0.019  $\chi^2$ /NDF: 817823.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 136.370+/-588.414  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1314.480+/-549.253  $\chi^2/\text{NDF}$ : 9.2/16

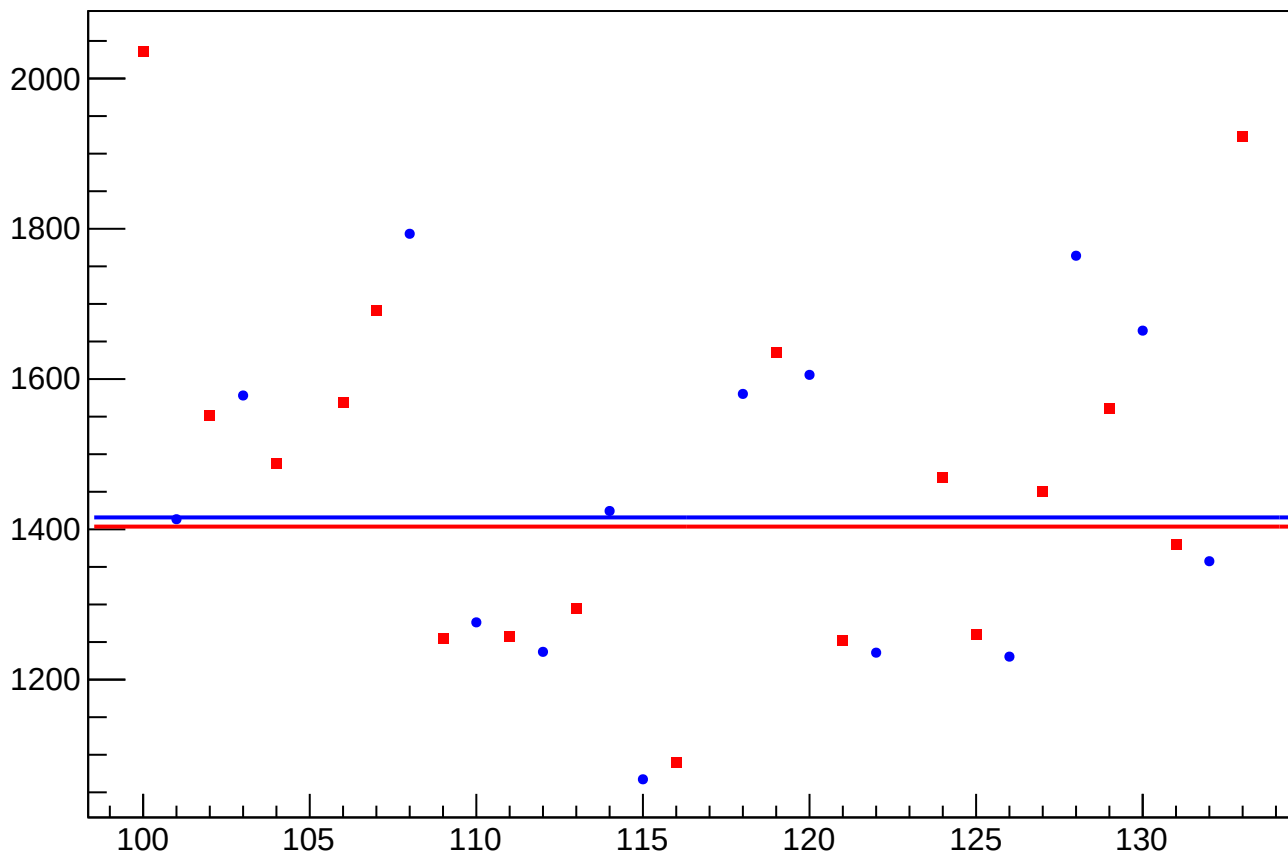
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -638.937+/-401.512  $\chi^2/\text{NDF}$ : 26.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 1415.873+/-0.416  $\chi^2/\text{NDF}$ : 226013.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1403.648+/-0.388  $\chi^2/\text{NDF}$ : 246264.9/16

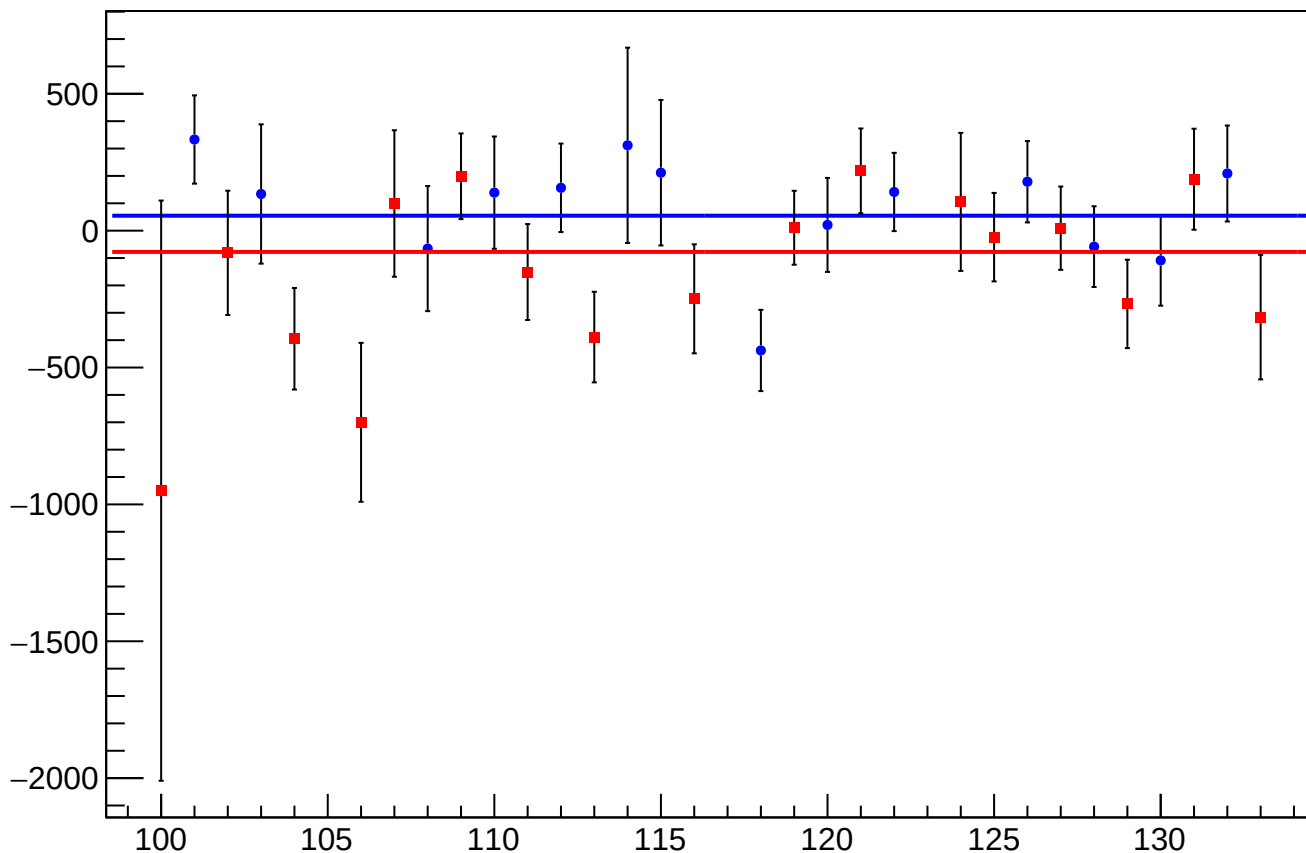
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1409.340+/-0.284  $\chi^2/\text{NDF}$ : 472740.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 54.674+/-47.368  $\chi^2/\text{NDF}$ : 19.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -77.635+/-45.126  $\chi^2/\text{NDF}$ : 25.8/16

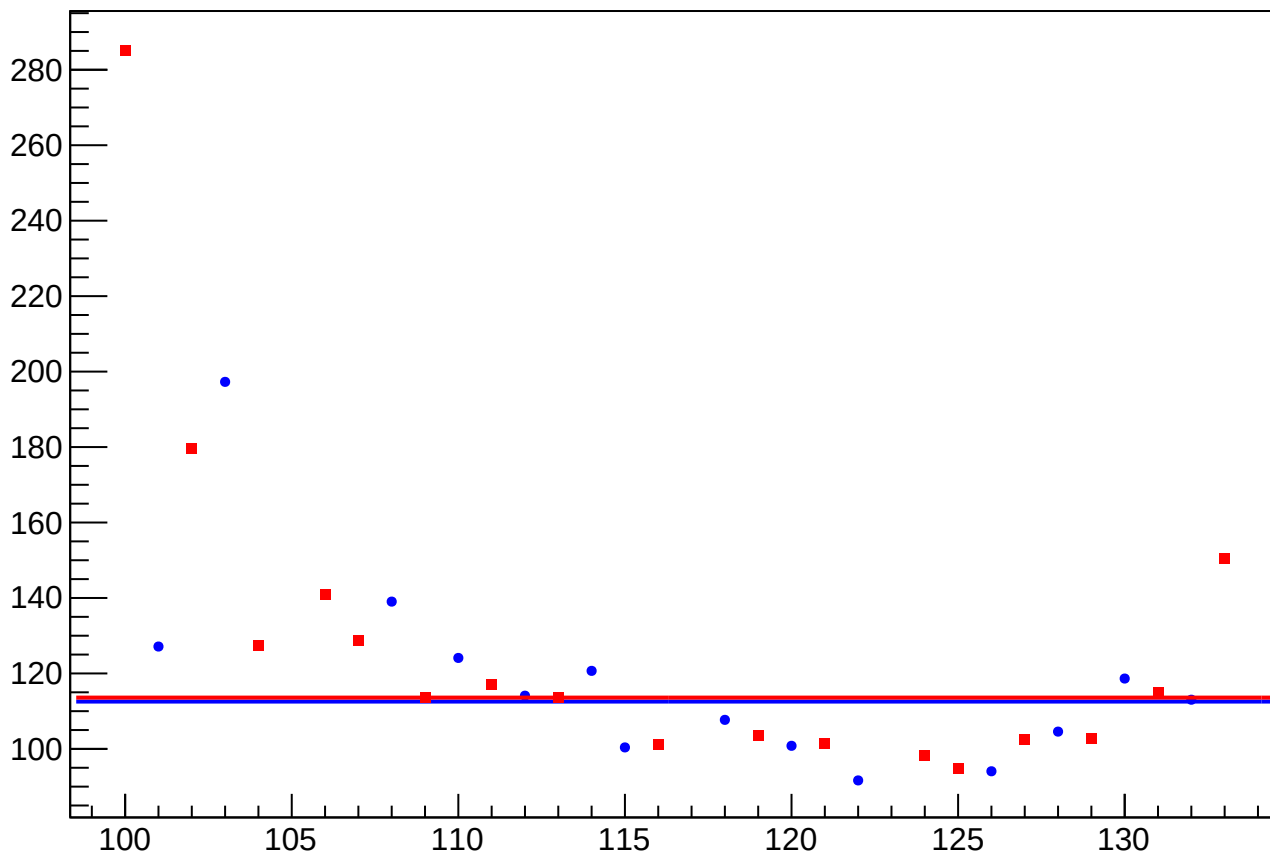
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.686+/-32.673  $\chi^2/\text{NDF}$ : 49.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 112.544 $\pm$ 0.033  $\chi^2$ /NDF: 370418.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 113.596 $\pm$ 0.032  $\chi^2$ /NDF: 396015.3/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

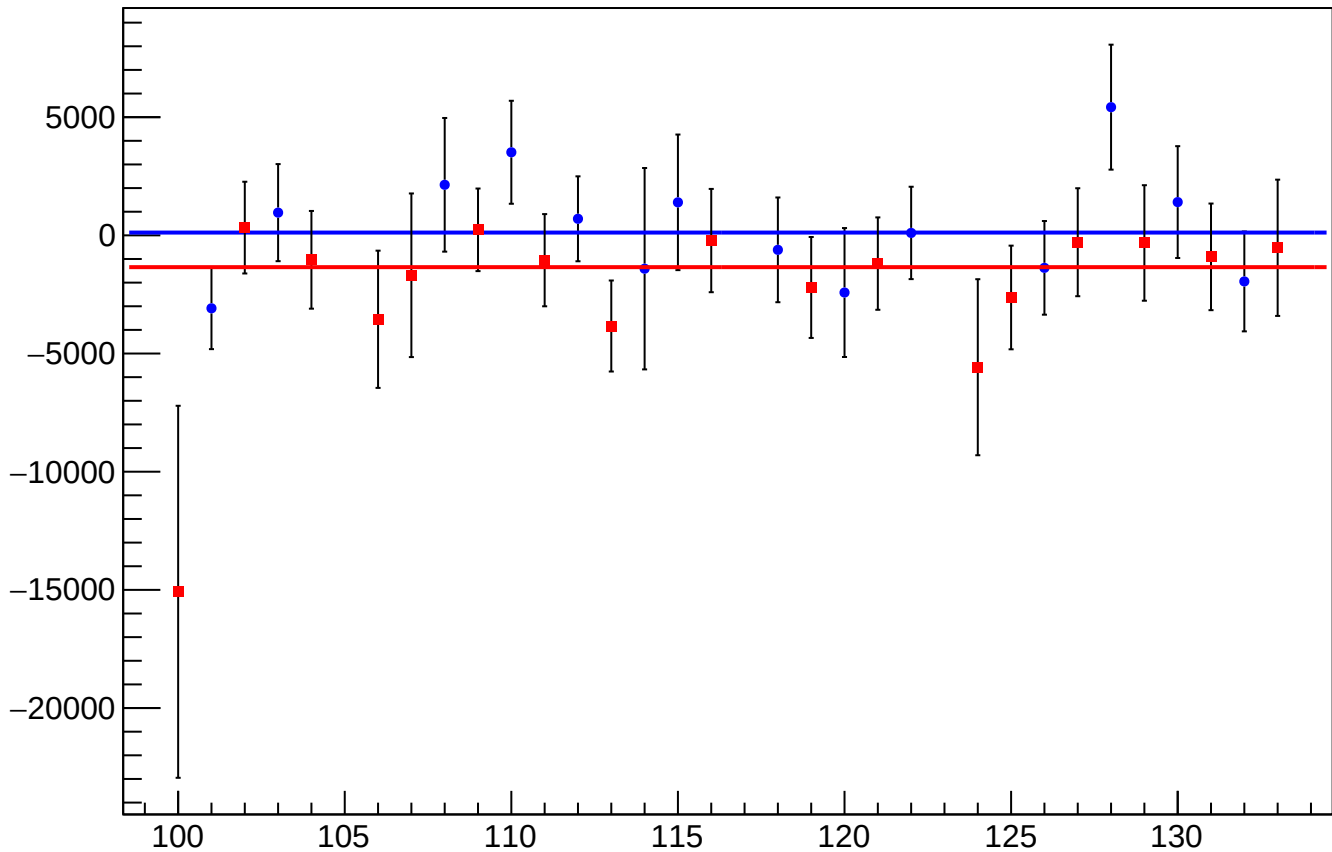
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 113.096 $\pm$ 0.023  $\chi^2$ /NDF: 766951.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



asym\_sam\_2468\_avg\_dit\_correction\_mean vs Slug



Right In: 118.048 $\pm$ 598.223  $\chi^2$ /NDF: 13.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1345.304 $\pm$ 556.892  $\chi^2$ /NDF: 9.5/16

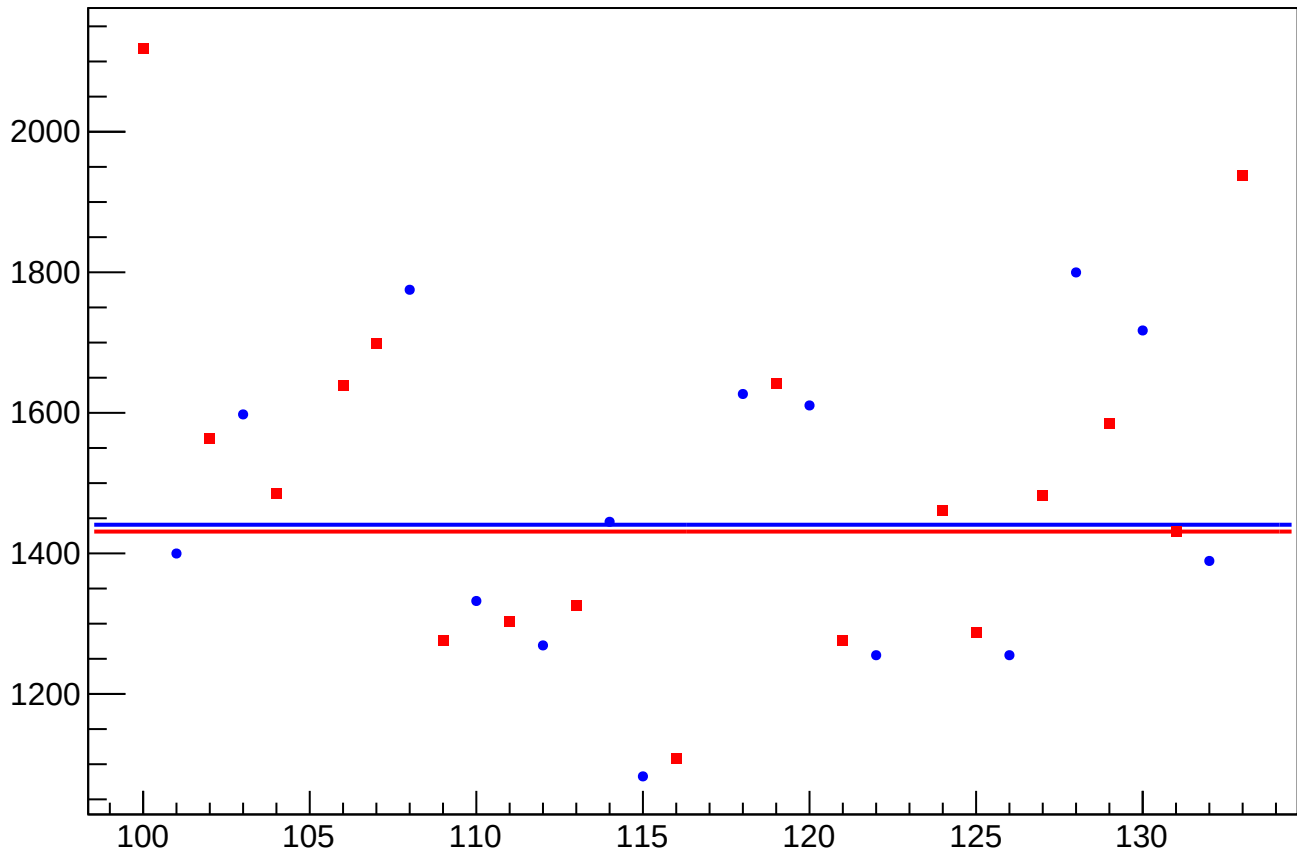
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -665.922 $\pm$ 407.611  $\chi^2$ /NDF: 26.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_2468\_avg\_dit\_correction\_rms vs Slug



Right In: 1440.783 $\pm$ 0.423  $\chi^2$ /NDF: 218002.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1431.058 $\pm$ 0.394  $\chi^2$ /NDF: 233316.4/16

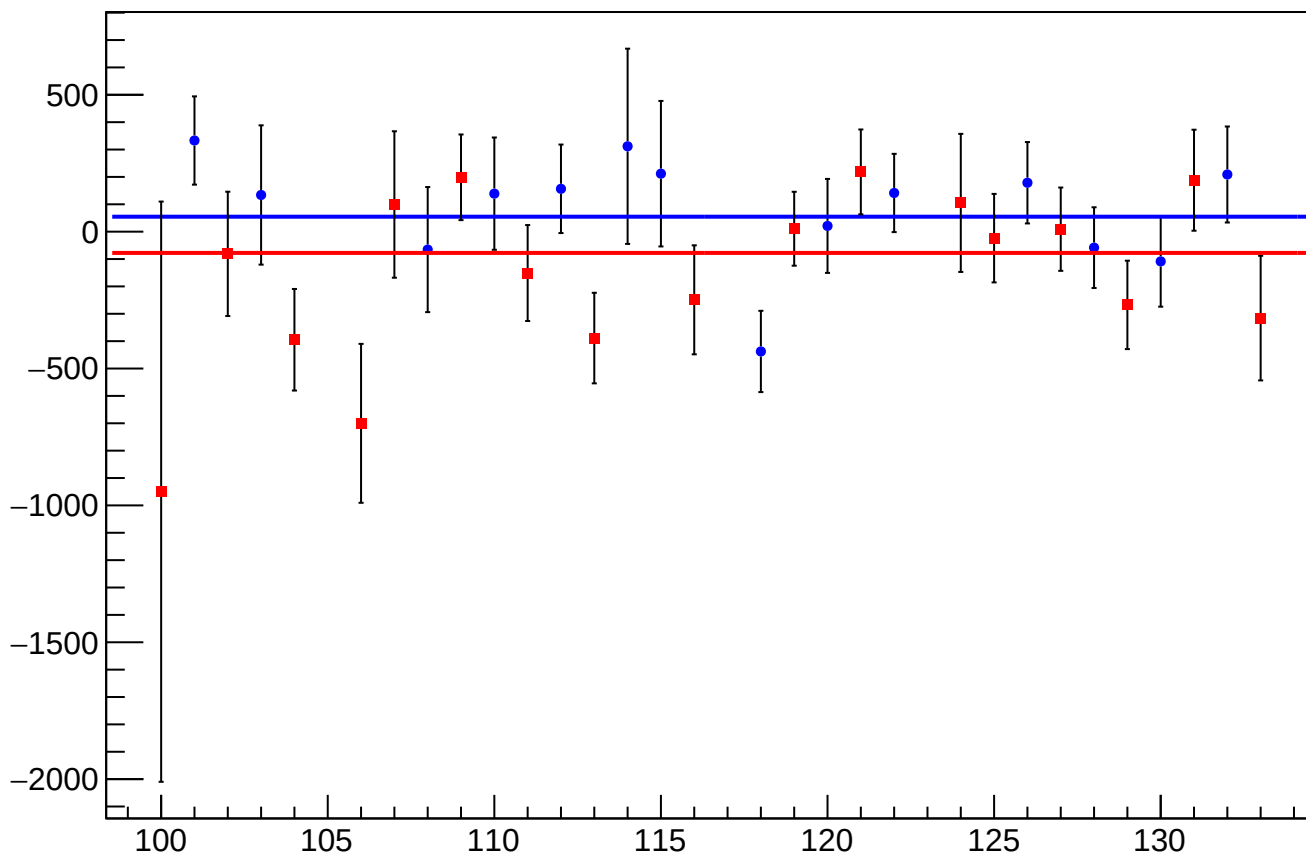
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1435.573 $\pm$ 0.288  $\chi^2$ /NDF: 451601.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_dit\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 54.672 $\pm$ 47.368  $\chi^2$ /NDF: 19.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -77.633 $\pm$ 45.126  $\chi^2$ /NDF: 25.8/16

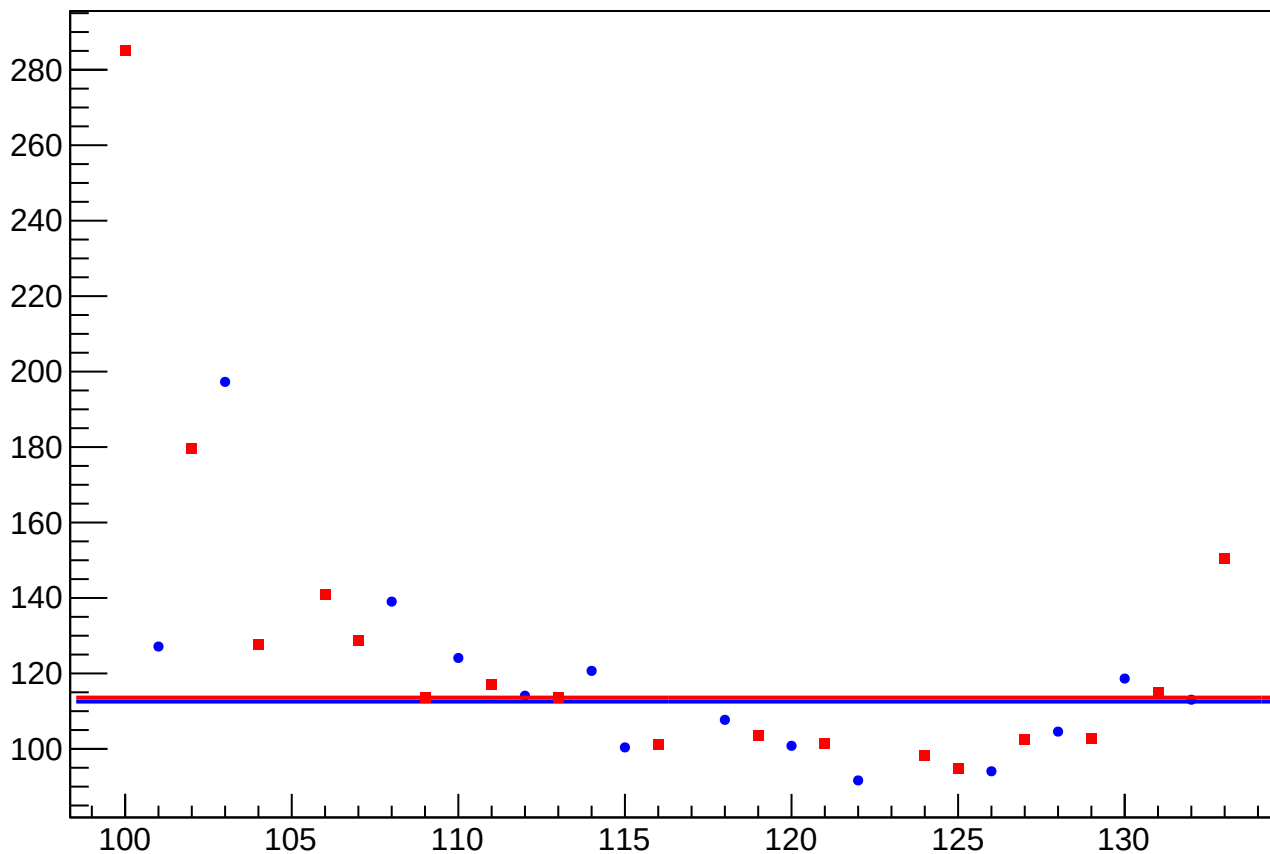
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.686 $\pm$ 32.673  $\chi^2$ /NDF: 49.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# eigen\_dit\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 112.543+/-0.033  $\chi^2/\text{NDF}$ : 370413.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 113.596+/-0.032  $\chi^2/\text{NDF}$ : 396019.3/16

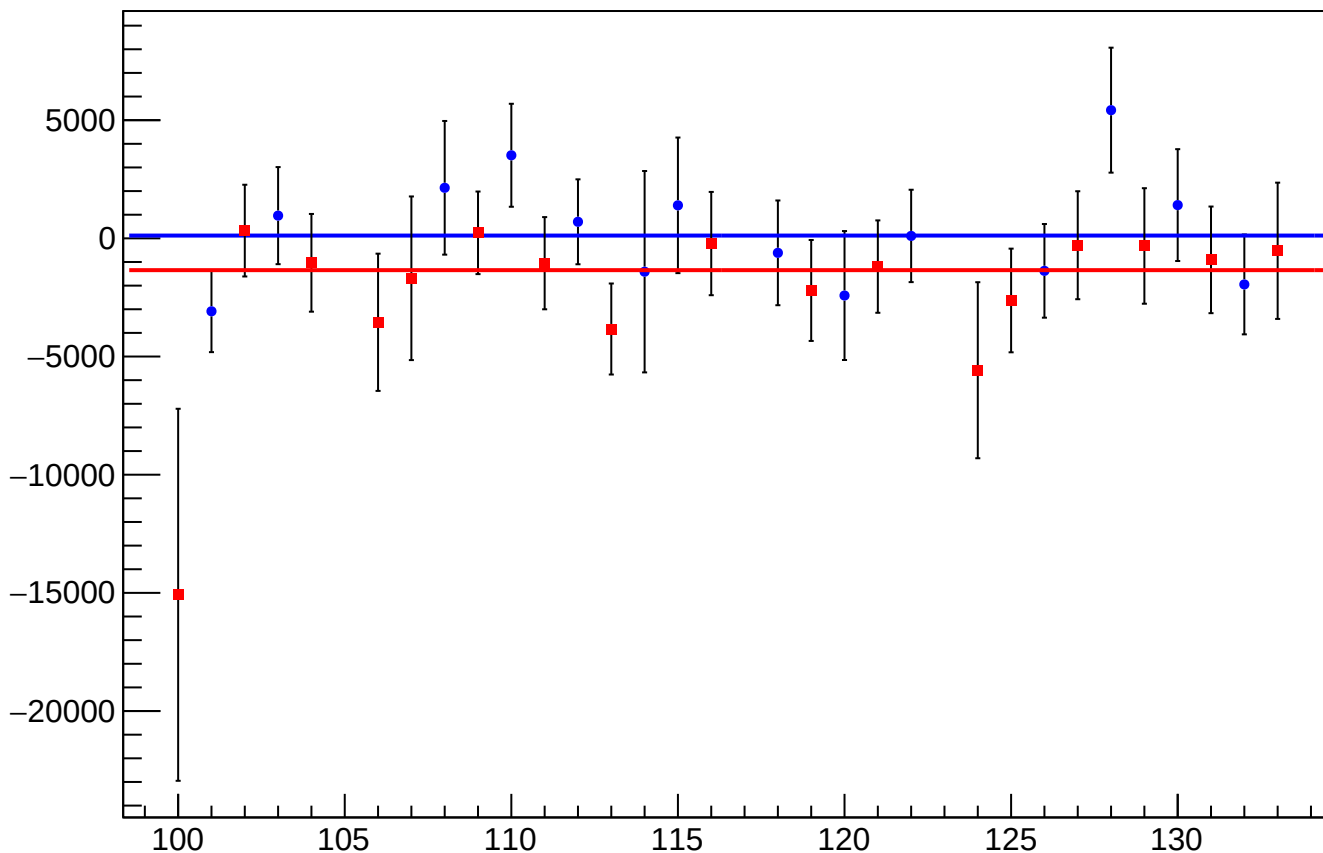
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 113.095+/-0.023  $\chi^2/\text{NDF}$ : 766950.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 118.050 $\pm$ 598.221  $\chi^2$ /NDF: 13.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1345.301 $\pm$ 556.890  $\chi^2$ /NDF: 9.5/16

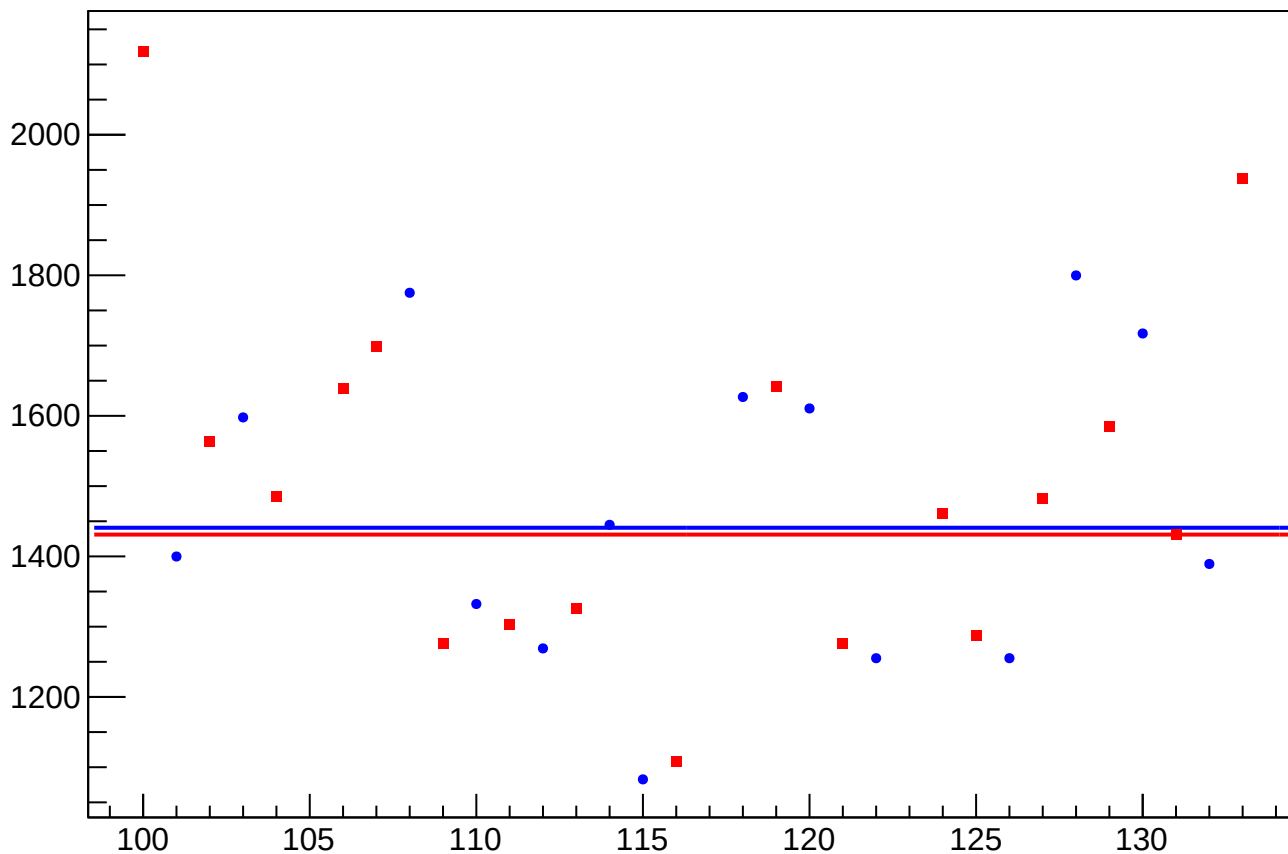
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -665.919 $\pm$ 407.610  $\chi^2$ /NDF: 26.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In: 1440.779 $\pm$ 0.423  $\chi^2$ /NDF: 218002.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1431.054 $\pm$ 0.394  $\chi^2$ /NDF: 233317.6/16

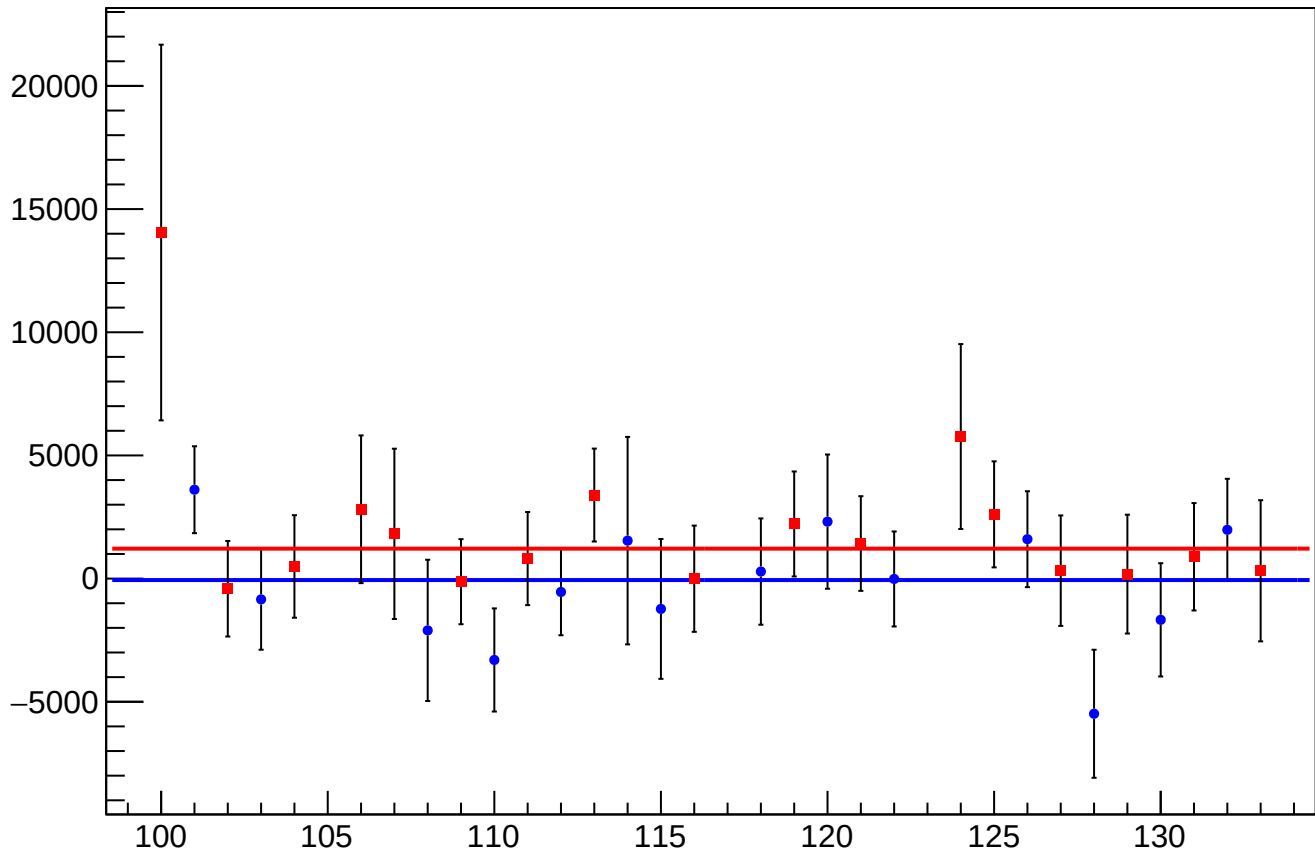
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1435.569 $\pm$ 0.288  $\chi^2$ /NDF: 451602.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_2468\_avg\_mean vs Slug



Right In: -59.280+/-590.531  $\chi^2/\text{NDF}$ : 15.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1216.398+/-550.287  $\chi^2/\text{NDF}$ : 8.9/16

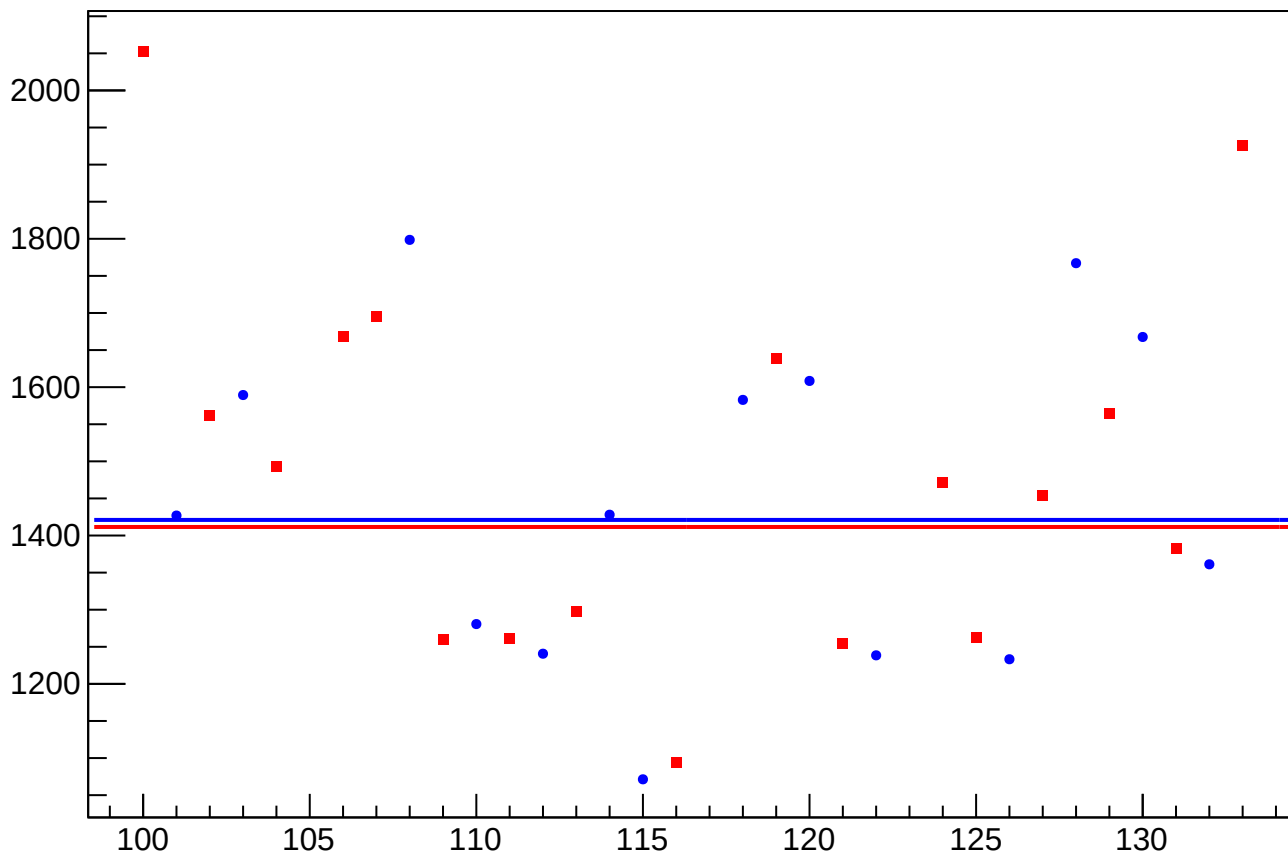
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 623.505+/-402.588  $\chi^2/\text{NDF}$ : 26.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_2468\_avg\_rms vs Slug



Right In: 1421.038+/-0.418  $\chi^2/\text{NDF}$ : 226070.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1411.522+/-0.389  $\chi^2/\text{NDF}$ : 255851.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

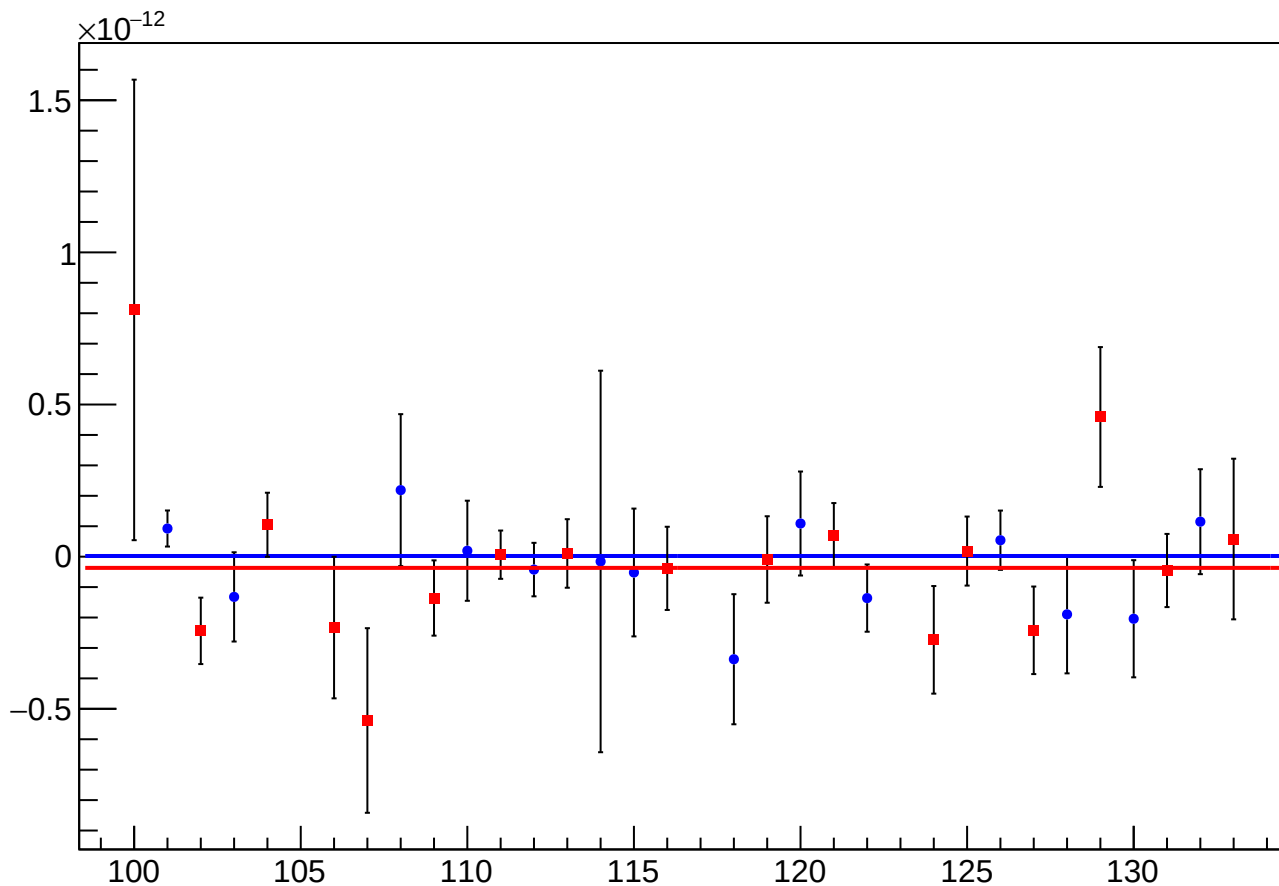
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1415.945+/-0.285  $\chi^2/\text{NDF}$ : 482200.2/30

- 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: 11.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 21.2/16

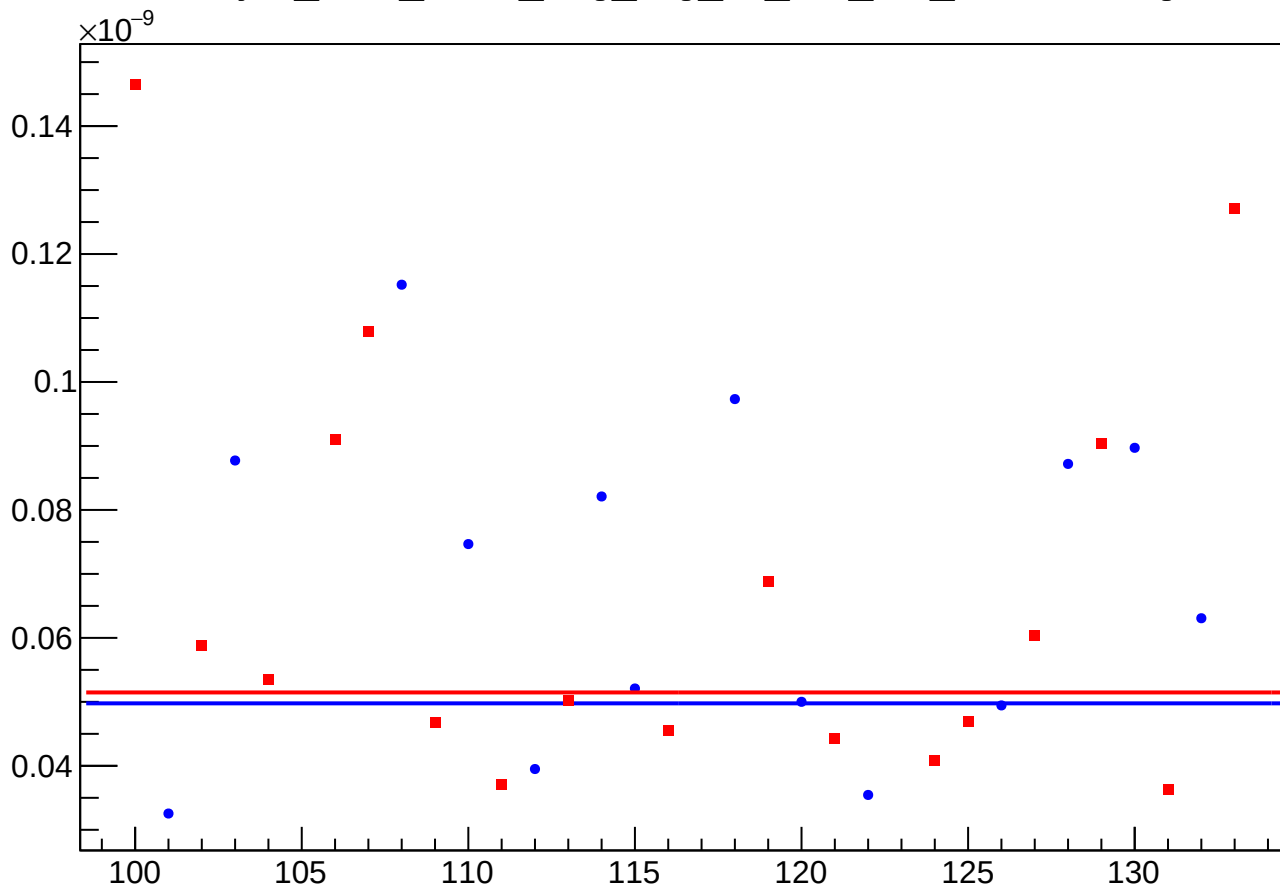
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 33.4/30

- 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  $\chi^2/\text{NDF}$ : 824073.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 551053.7/16

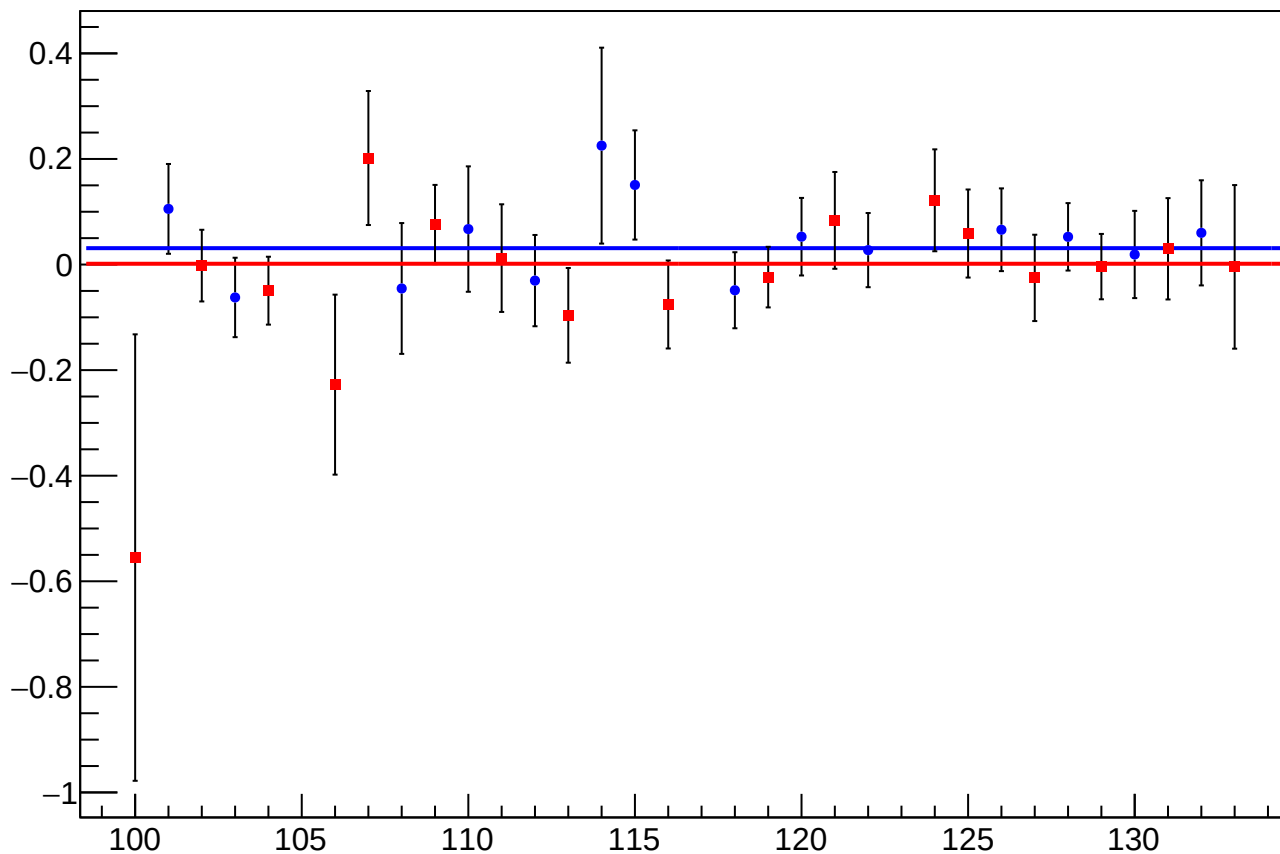
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1377782.3/30

- 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: 0.031+/-0.023  $\chi^2/\text{NDF}$ : 7.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.021  $\chi^2/\text{NDF}$ : 12.9/16

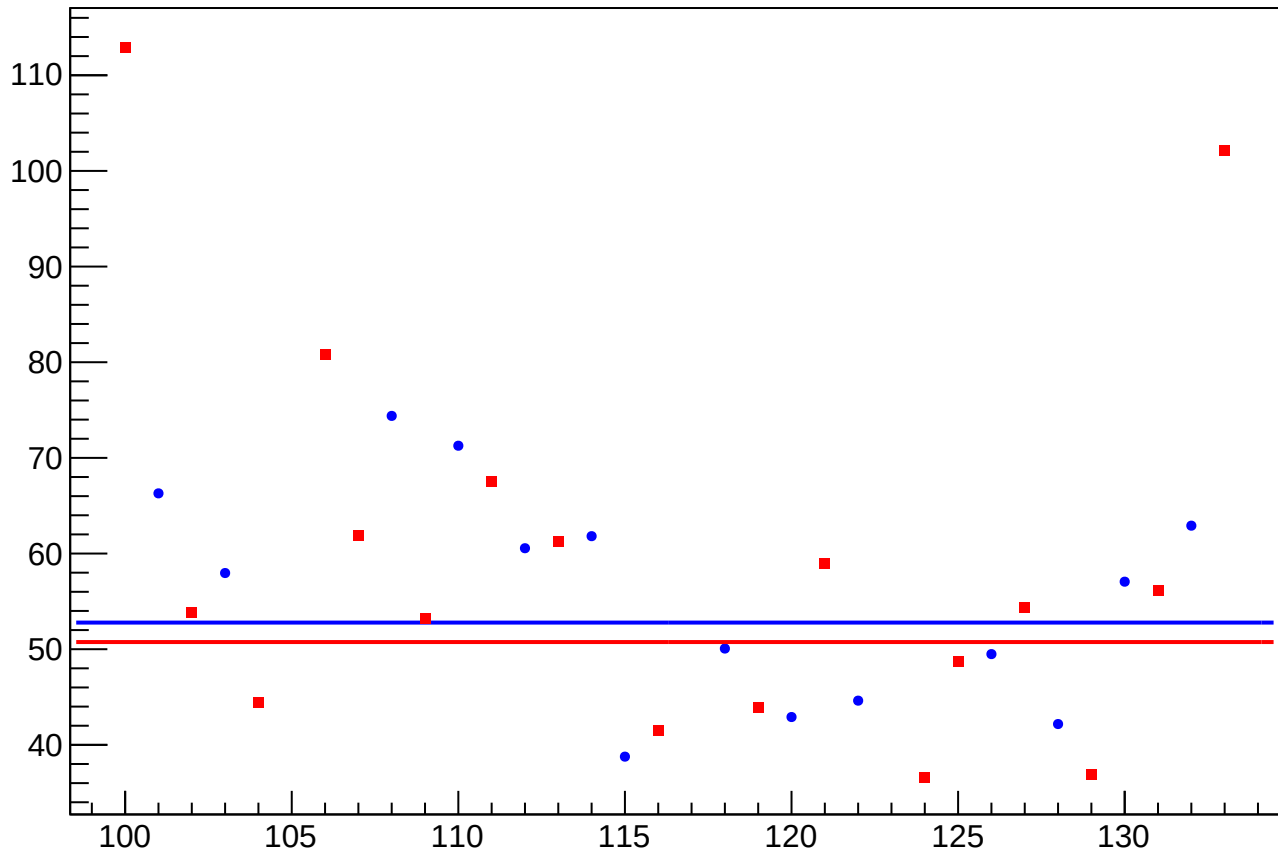
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.015  $\chi^2/\text{NDF}$ : 21.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 52.783+/-0.016  $\chi^2/\text{NDF}$ : 377432.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 50.748+/-0.015  $\chi^2/\text{NDF}$ : 672083.1/16

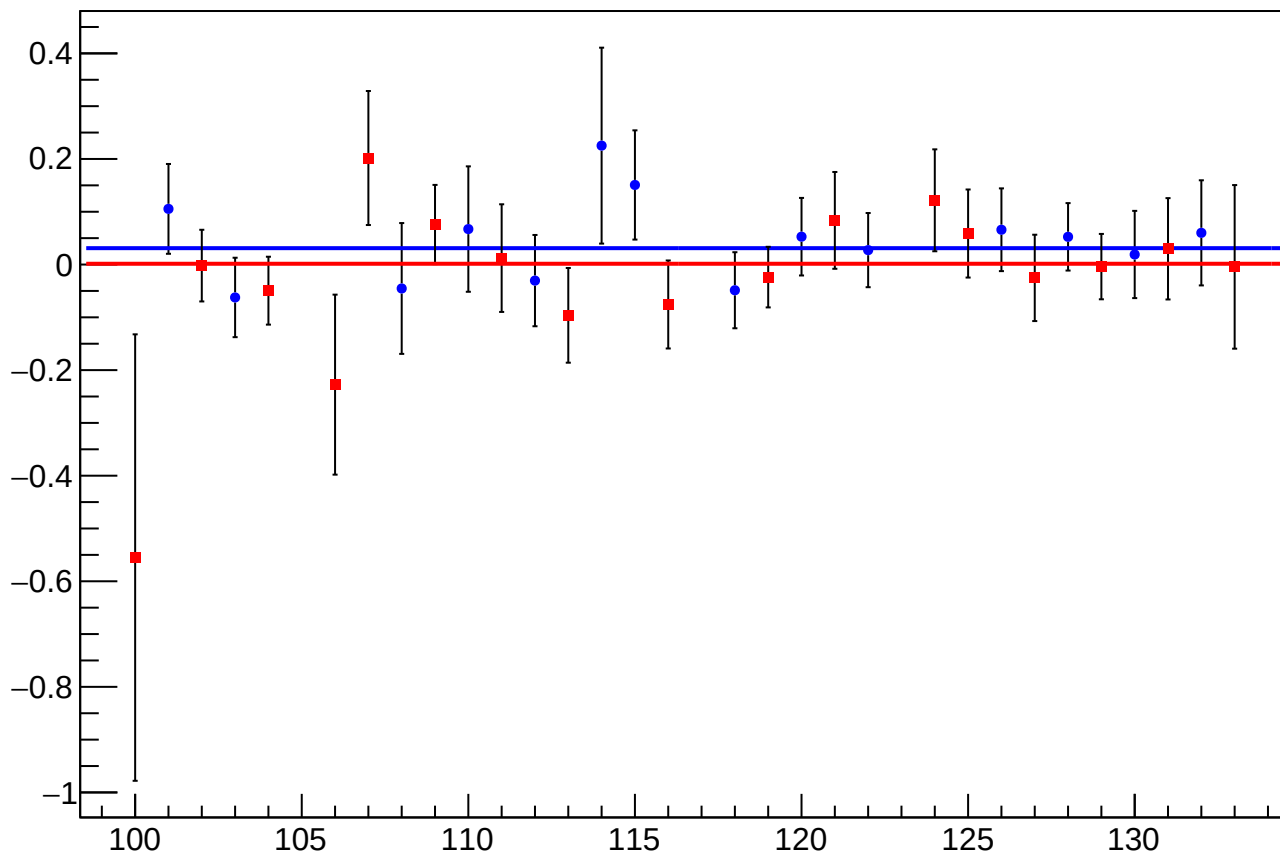
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.671+/-0.011  $\chi^2/\text{NDF}$ : 1058305.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.031+/-0.023  $\chi^2/\text{NDF}$ : 7.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.021  $\chi^2/\text{NDF}$ : 12.9/16

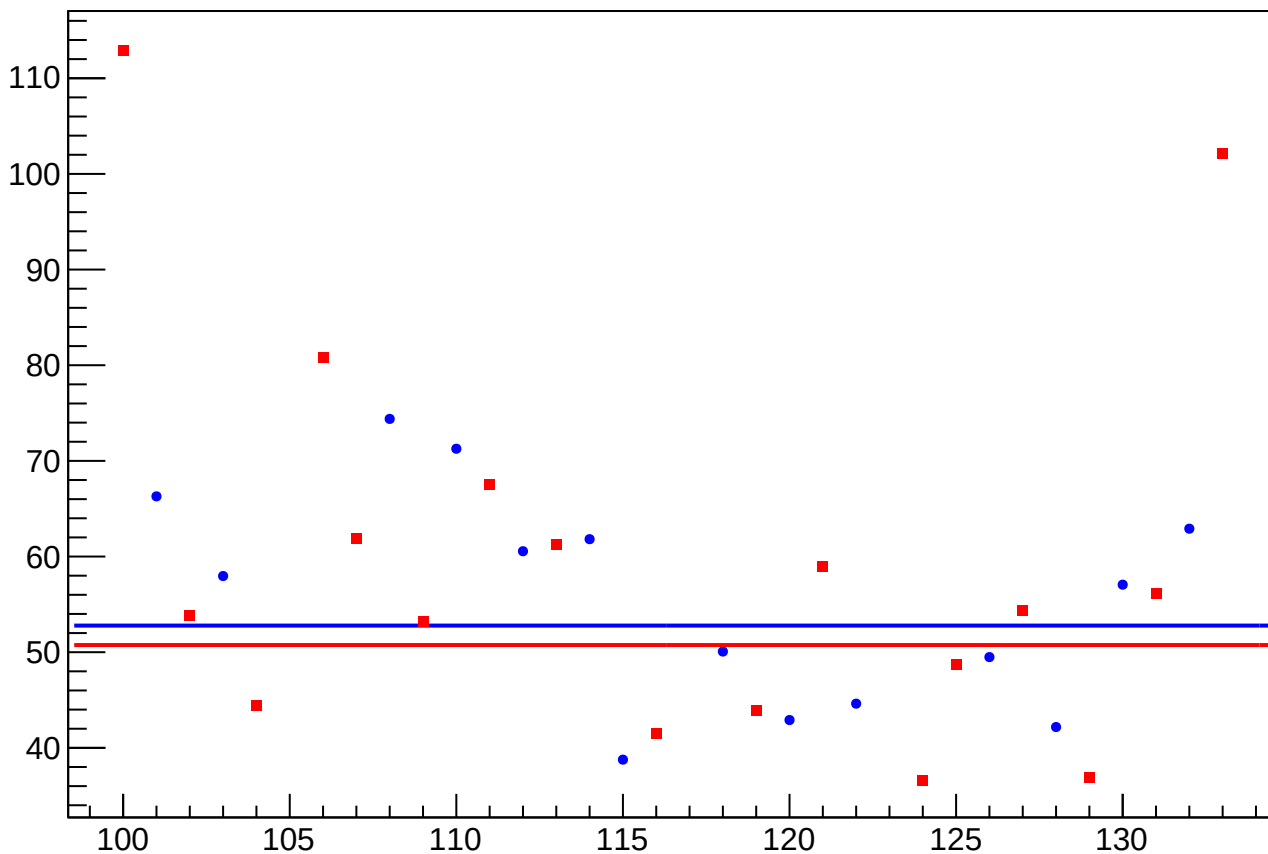
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.015  $\chi^2/\text{NDF}$ : 21.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 52.783+/-0.016  $\chi^2/\text{NDF}$ : 377432.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 50.748+/-0.015  $\chi^2/\text{NDF}$ : 672083.1/16

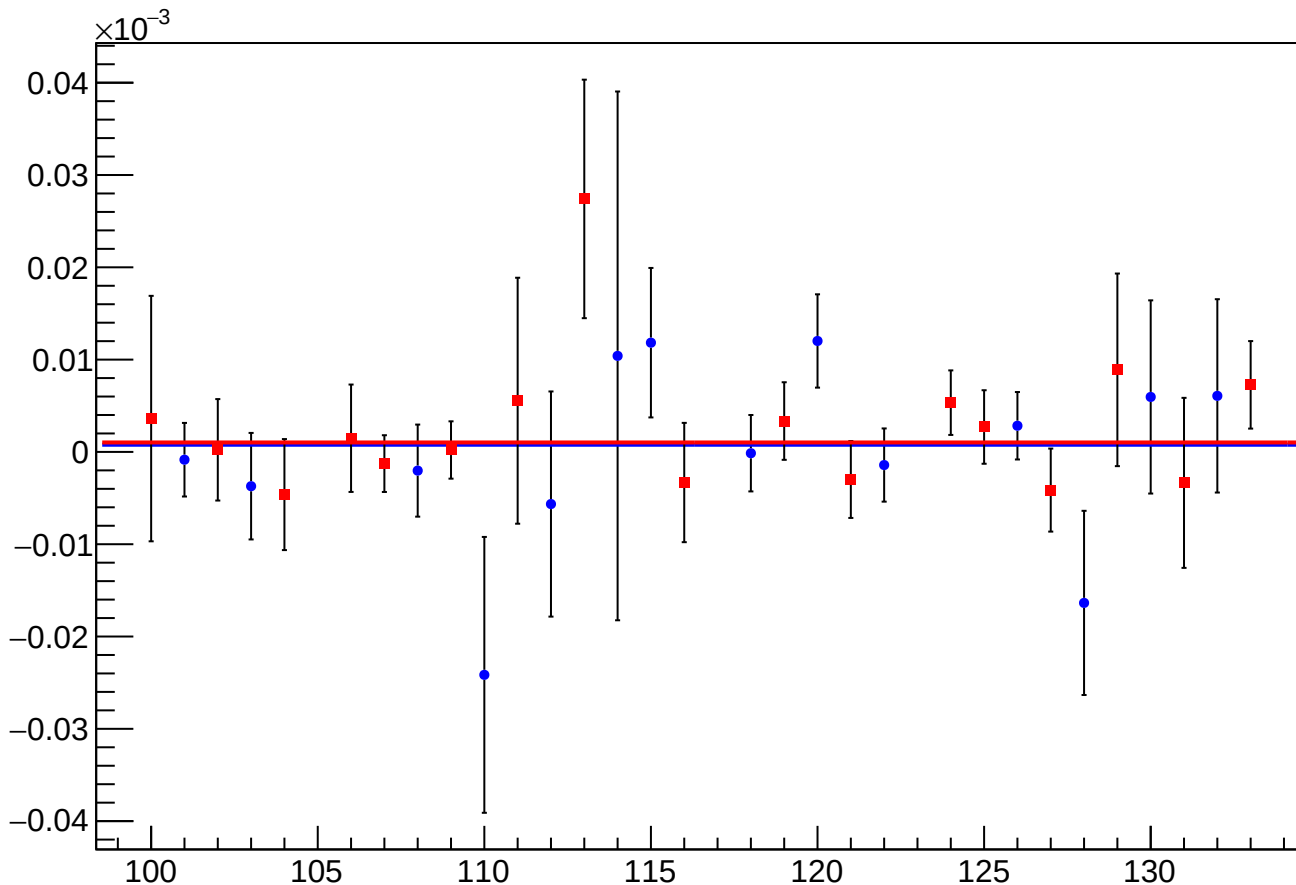
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.671+/-0.011  $\chi^2/\text{NDF}$ : 1058305.4/30

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 15.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 13.1/16

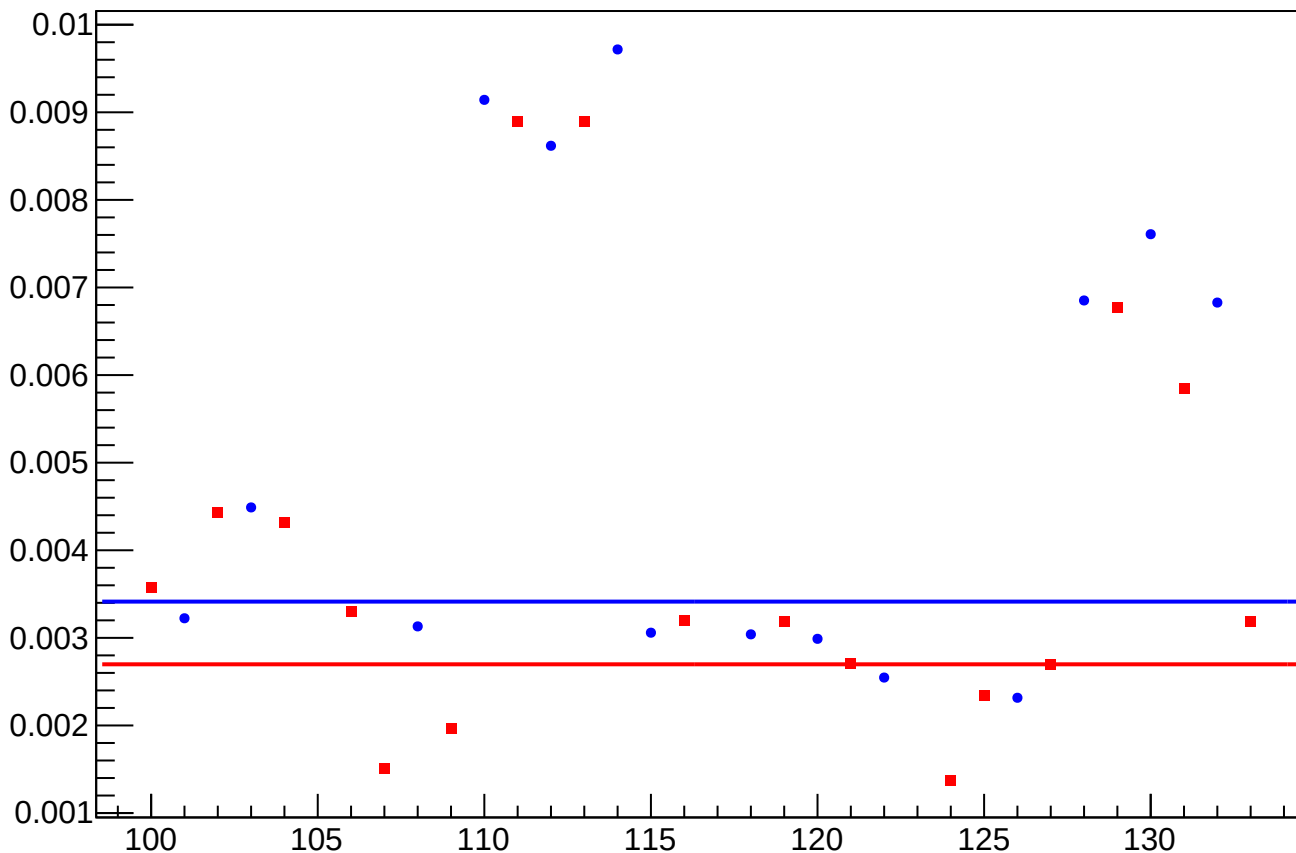
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 28.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1916907.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2583307.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

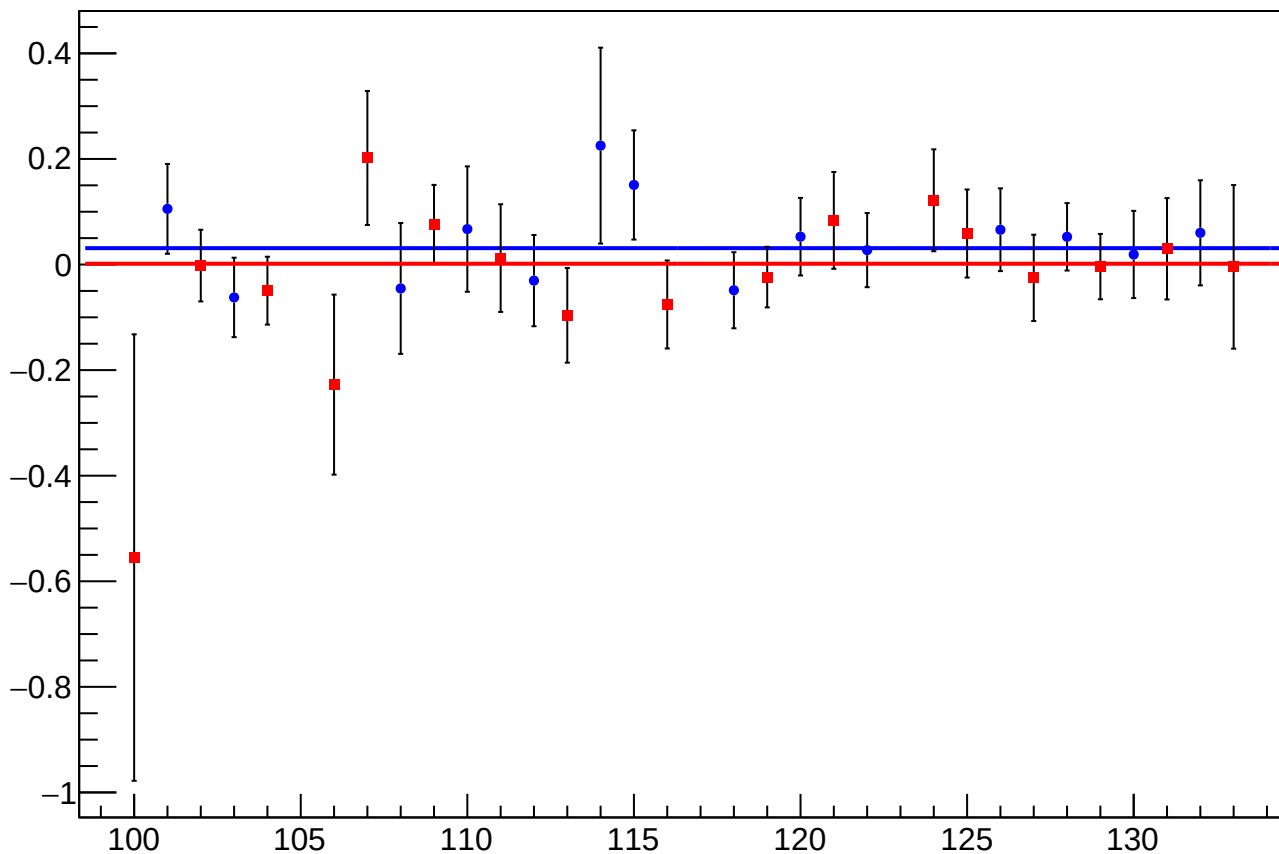
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 4773451.3/30

- 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: 0.031+/-0.023  $\chi^2/\text{NDF}$ : 7.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.021  $\chi^2/\text{NDF}$ : 12.9/16

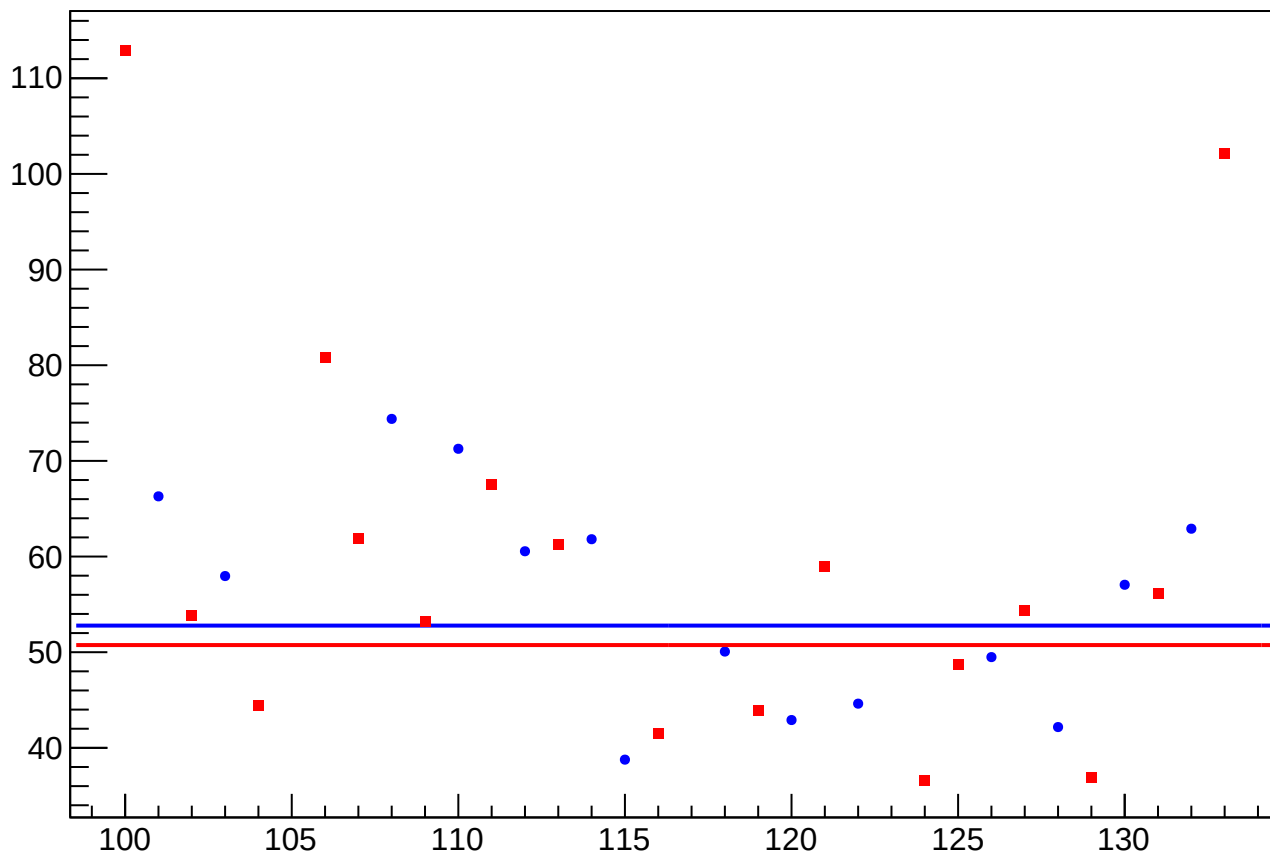
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.015  $\chi^2/\text{NDF}$ : 21.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 52.782 $\pm$ 0.016  $\chi^2$ /NDF: 377387.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 50.746 $\pm$ 0.015  $\chi^2$ /NDF: 672094.6/16

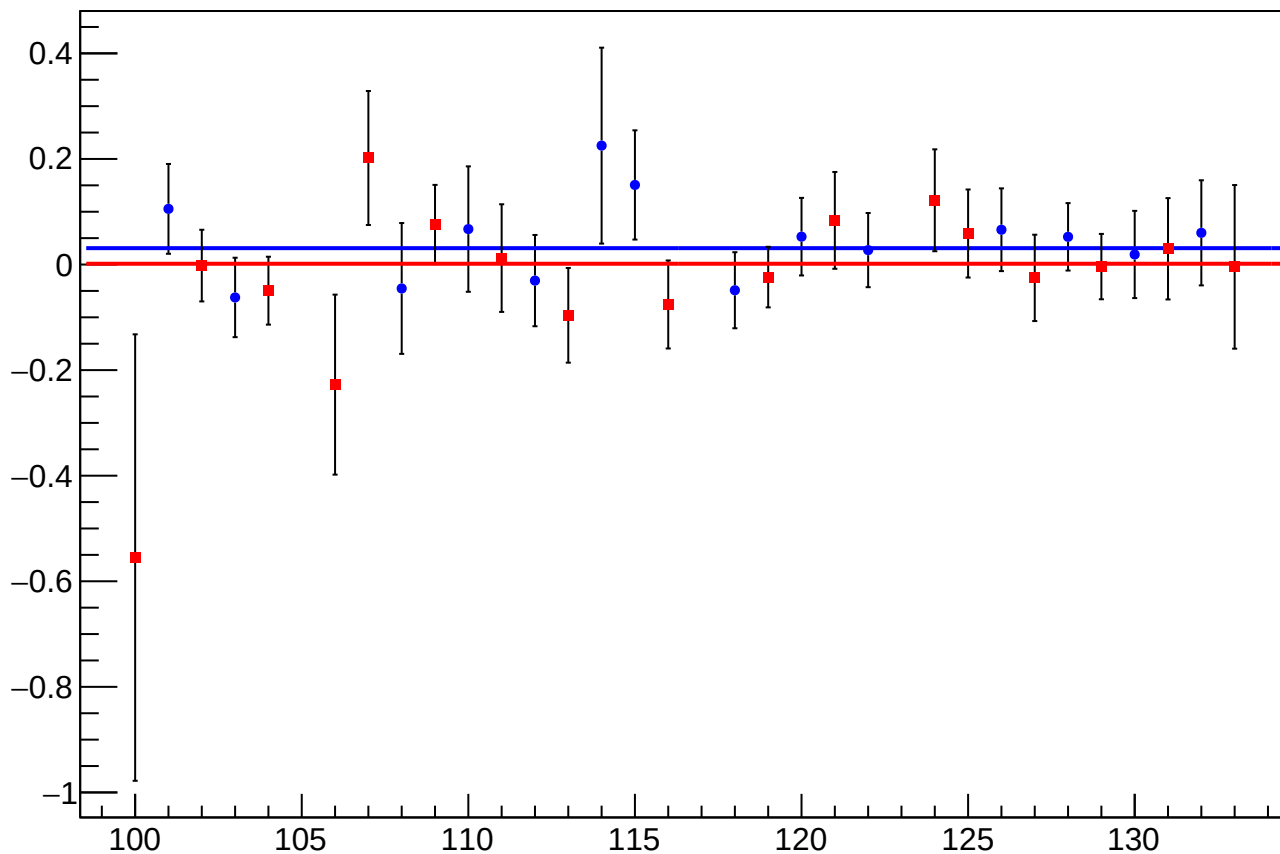
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 51.670 $\pm$ 0.011  $\chi^2$ /NDF: 1058271.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.031 $\pm$ 0.023  $\chi^2$ /NDF: 7.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.001 $\pm$ 0.021  $\chi^2$ /NDF: 12.9/16

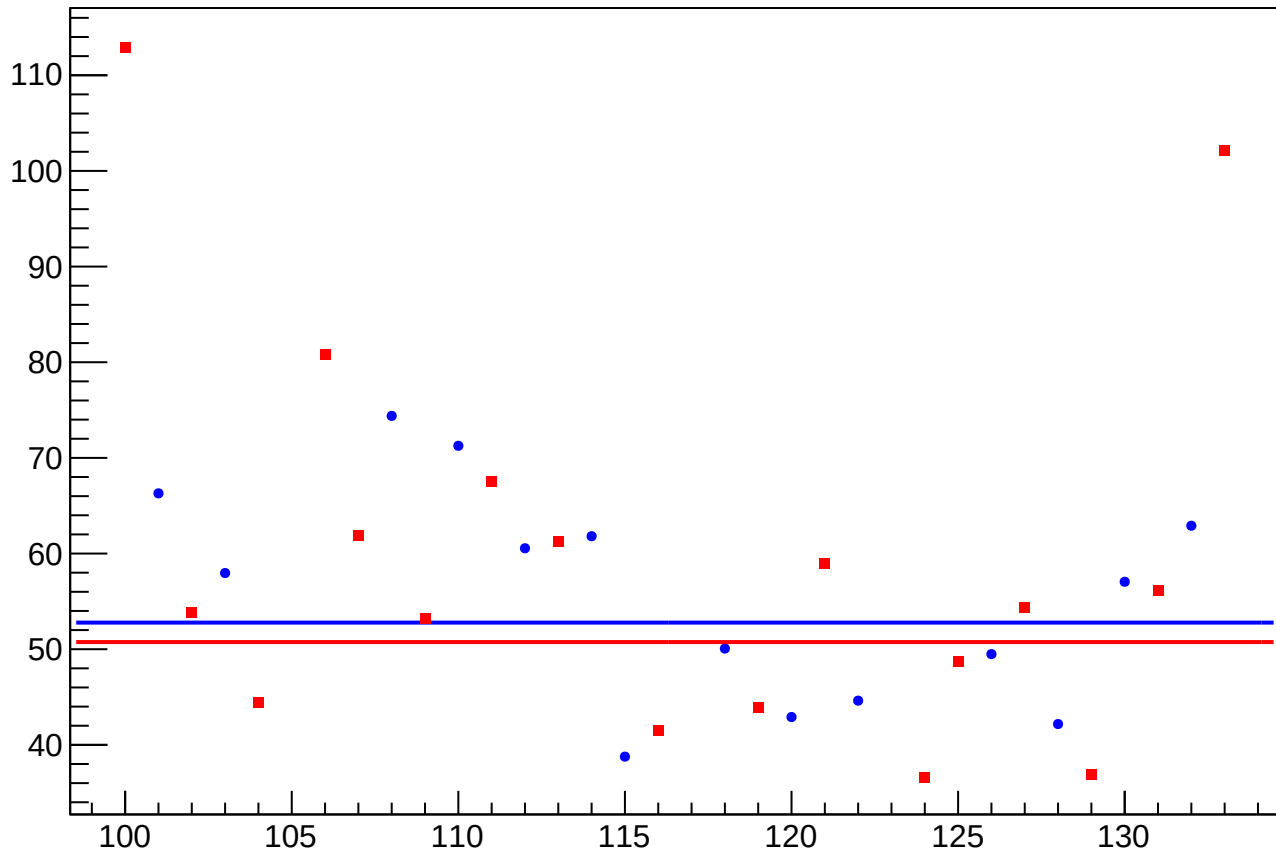
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.015  $\chi^2$ /NDF: 21.3/30

- 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: 52.782 $\pm$ 0.016  $\chi^2$ /NDF: 377387.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 50.746 $\pm$ 0.015  $\chi^2$ /NDF: 672094.6/16

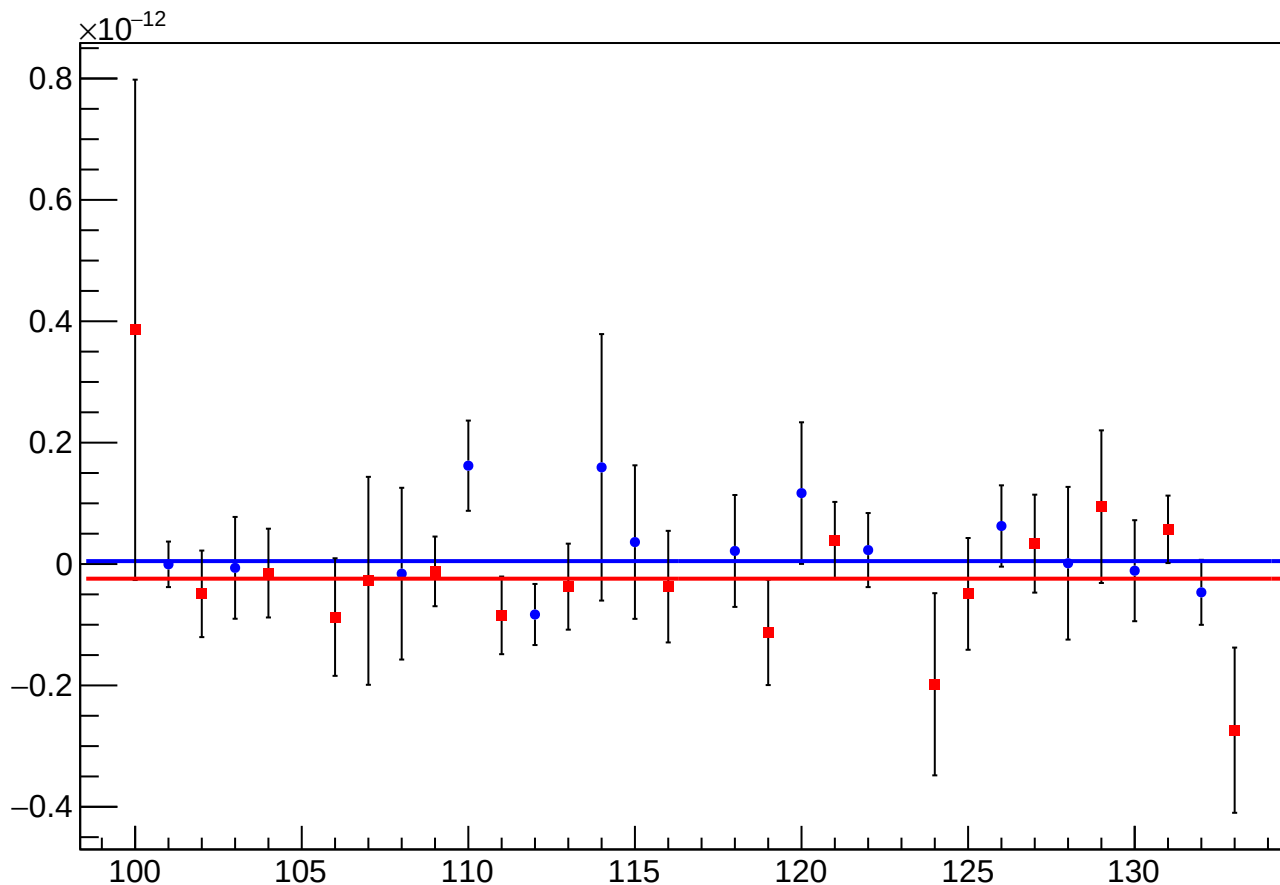
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 51.670 $\pm$ 0.011  $\chi^2$ /NDF: 1058271.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_2468\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 10.9/13

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 12.9/16

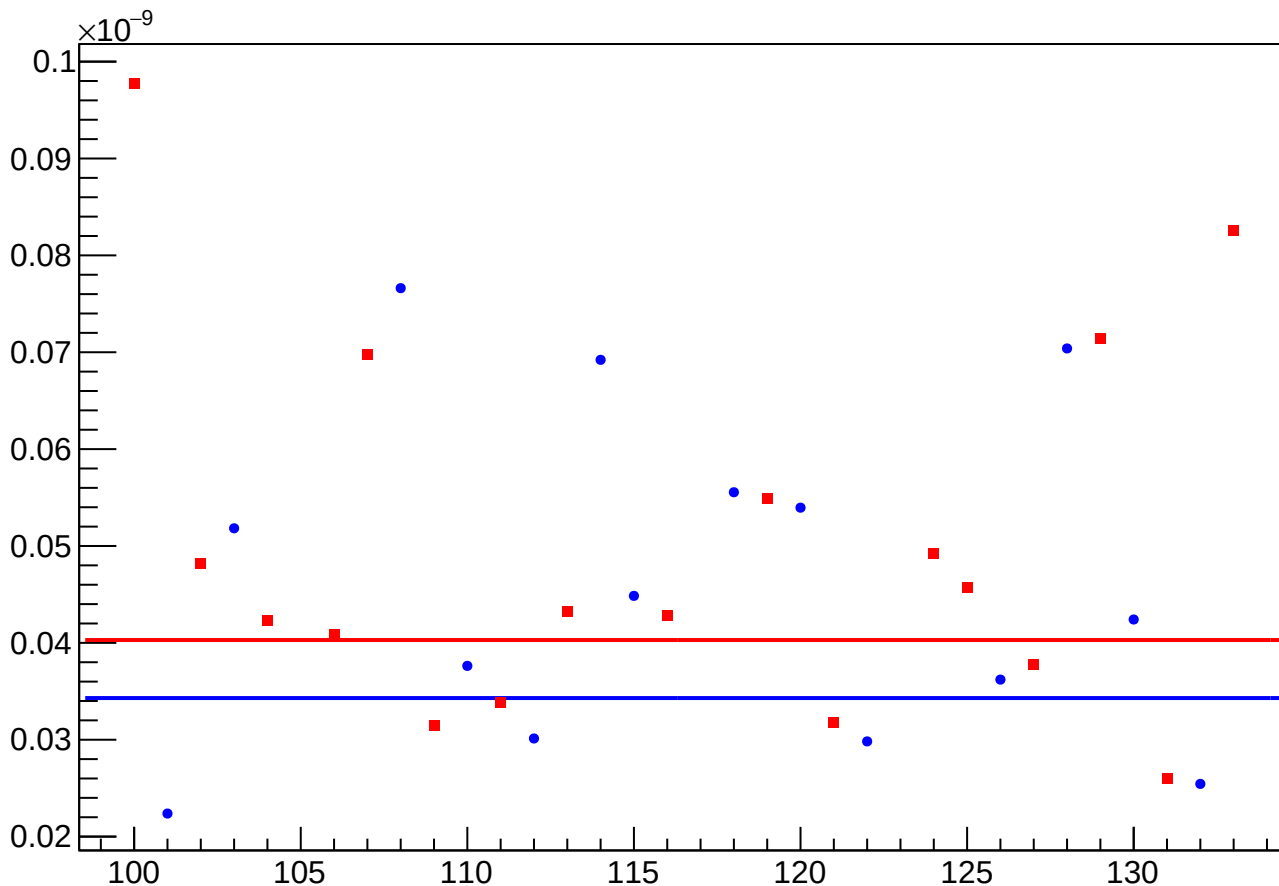
Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 24.9/30

- 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  $\chi^2/\text{NDF}$ : 963965.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 753846.6/16

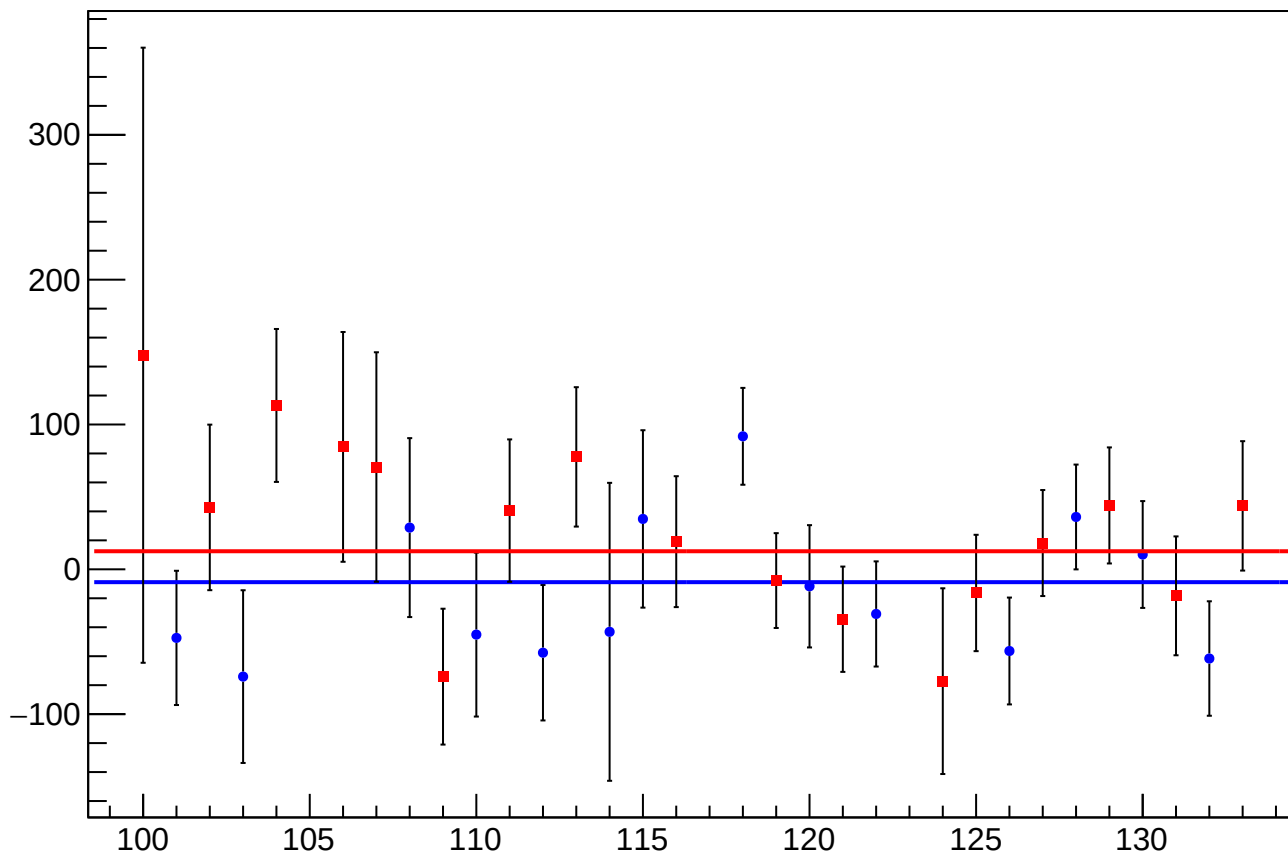
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1813366.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: -8.871+/-11.763  $\chi^2/\text{NDF}$ : 19.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12.476+/-11.315  $\chi^2/\text{NDF}$ : 17.5/16

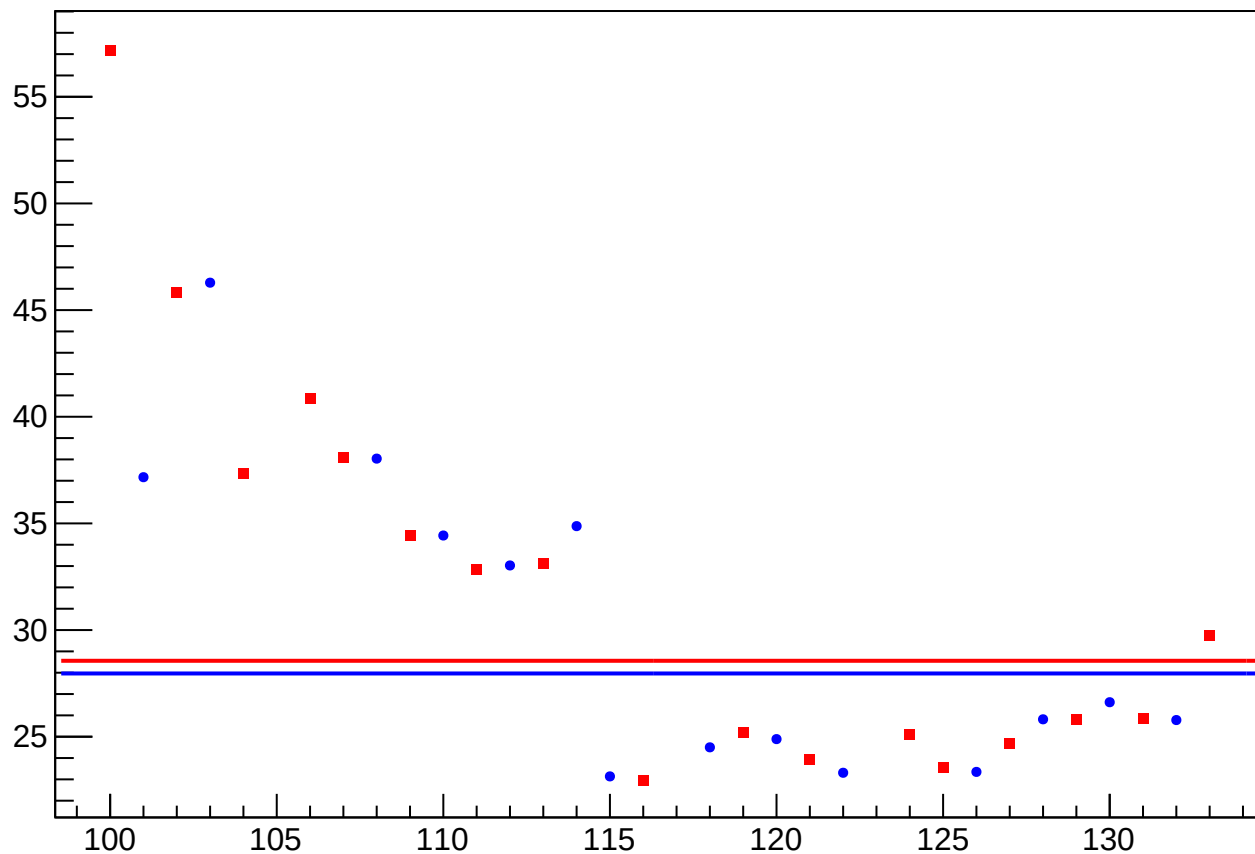
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.217+/-8.155  $\chi^2/\text{NDF}$ : 38.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 27.964+/-0.008  $\chi^2/\text{NDF}$ : 503806.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.559+/-0.008  $\chi^2/\text{NDF}$ : 578511.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

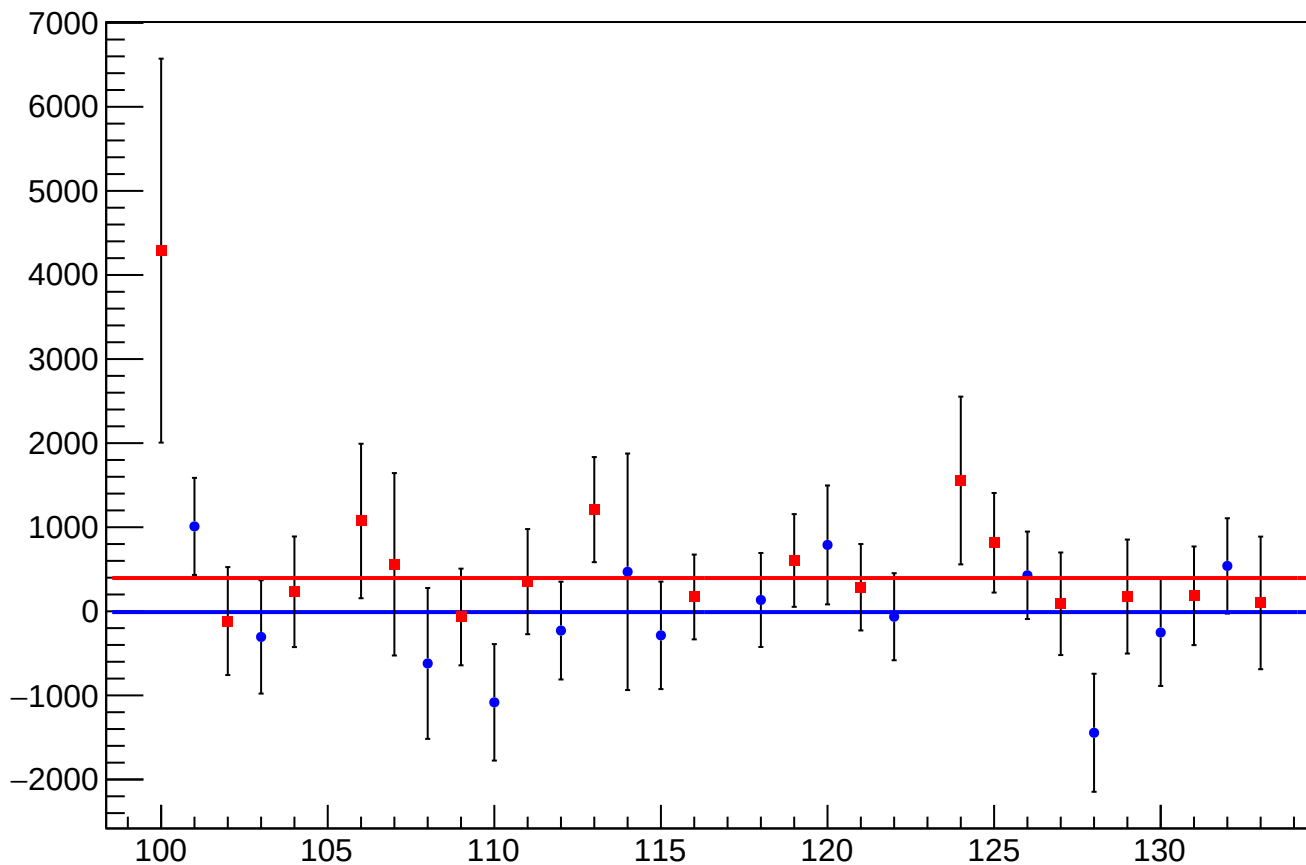
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.273+/-0.006  $\chi^2/\text{NDF}$ : 1084972.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_1357\_2468\_dd\_reg\_correction\_mean vs Slug



Right In: -9.365 $\pm$ 169.794  $\chi^2$ /NDF: 13.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 395.673 $\pm$ 159.395  $\chi^2$ /NDF: 9.4/16

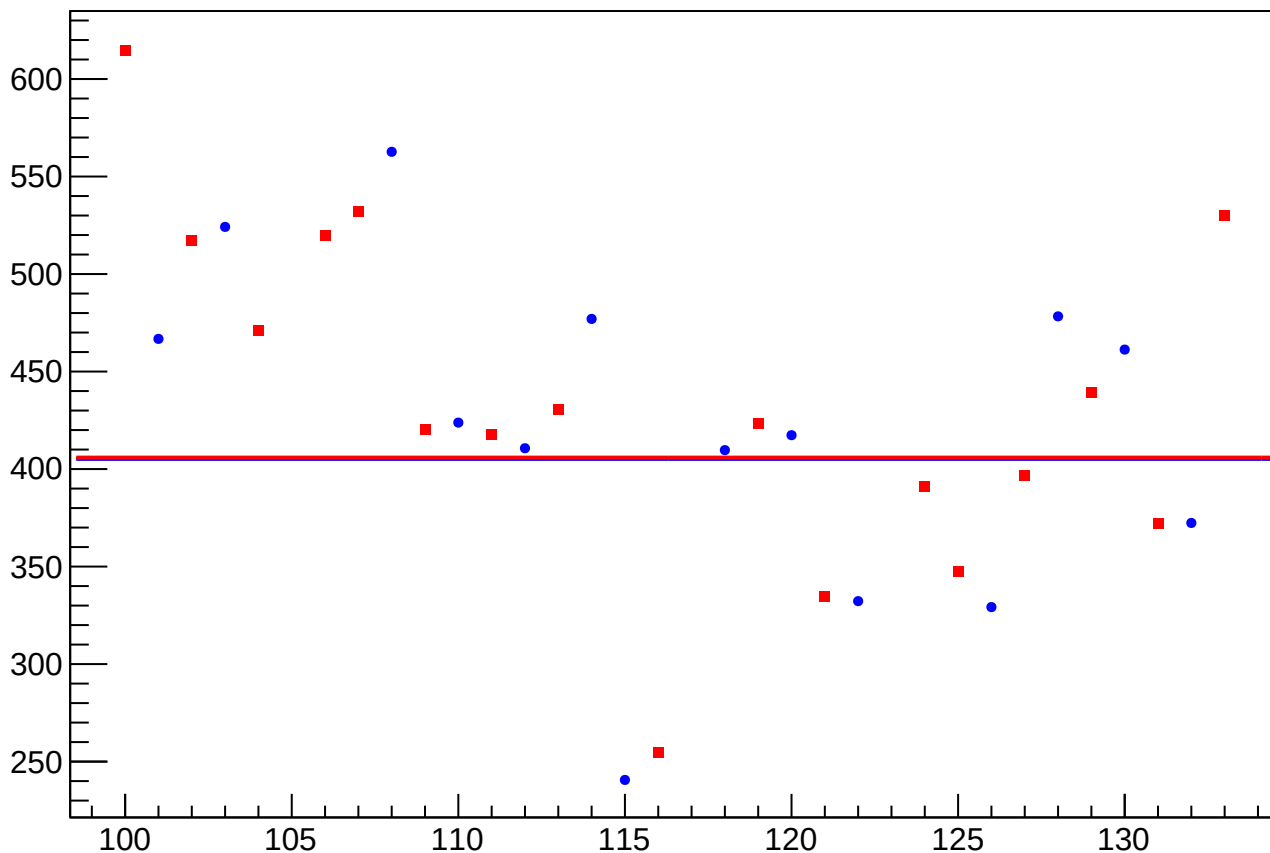
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 205.936 $\pm$ 116.212  $\chi^2$ /NDF: 26.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_reg\_correction\_rms vs Slug



Right In: 405.231+/-0.120  $\chi^2/\text{NDF}$ : 413197.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 405.869+/-0.113  $\chi^2/\text{NDF}$ : 460497.0/16

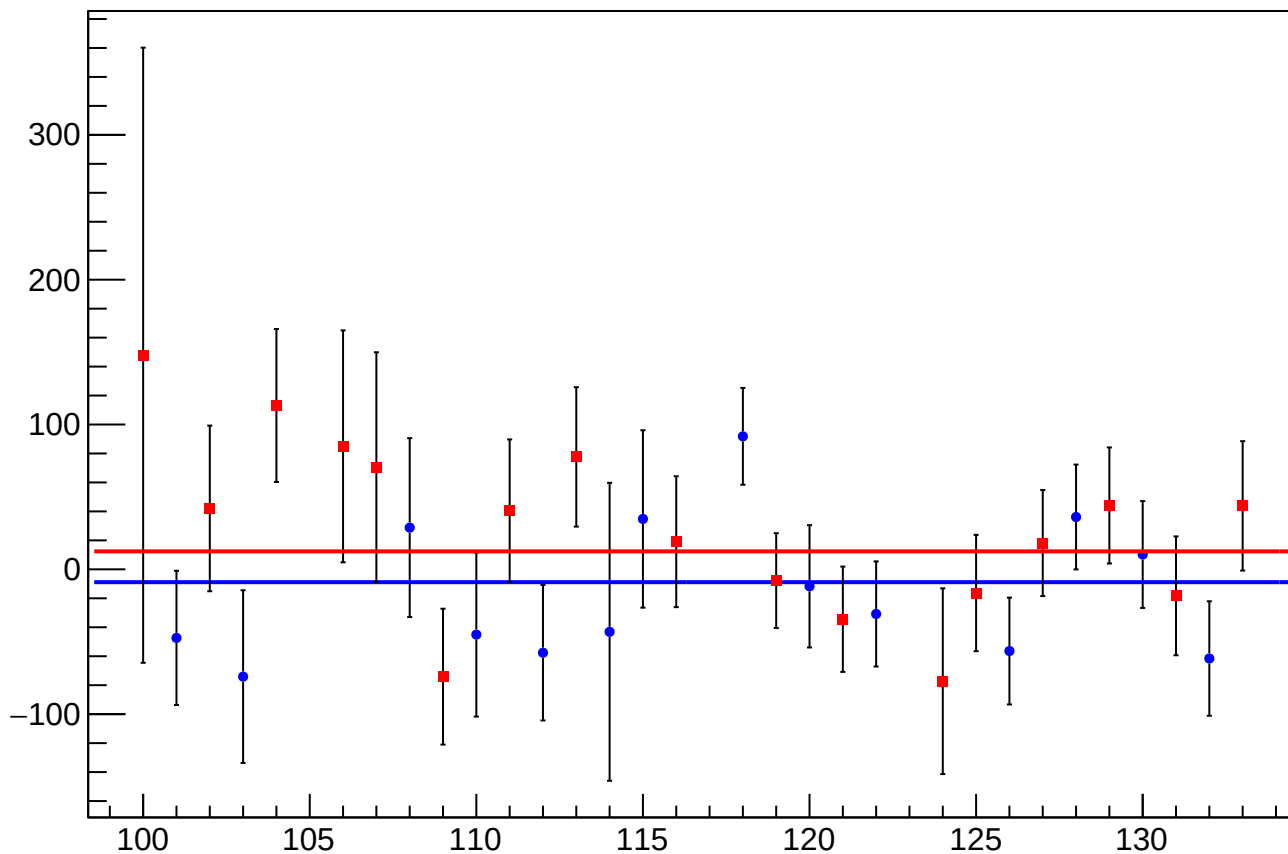
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 405.570+/-0.082  $\chi^2/\text{NDF}$ : 873709.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: -8.866+/-11.763  $\chi^2/\text{NDF}$ : 19.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12.426+/-11.318  $\chi^2/\text{NDF}$ : 17.5/16

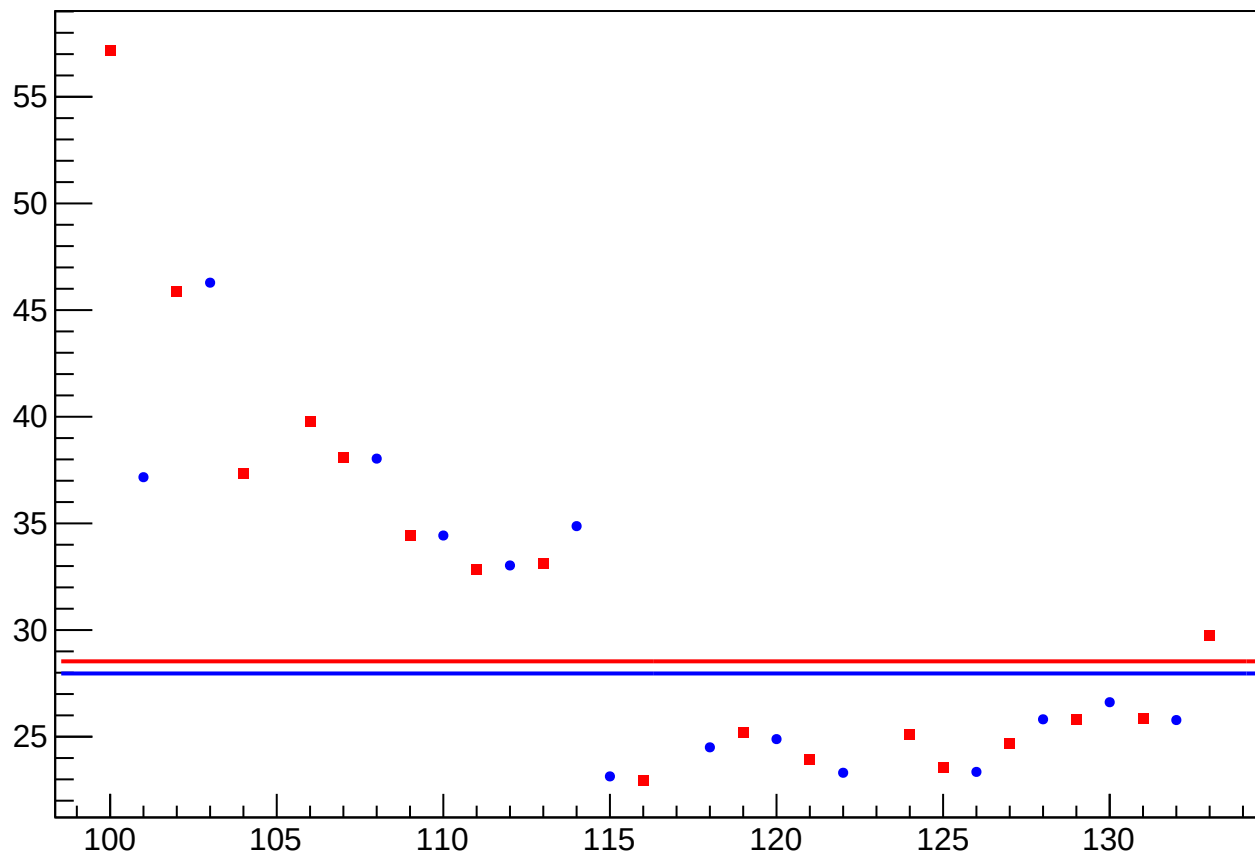
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.191+/-8.156  $\chi^2/\text{NDF}$ : 38.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 27.964+/-0.008  $\chi^2/\text{NDF}$ : 503809.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.533+/-0.008  $\chi^2/\text{NDF}$ : 569928.1/16

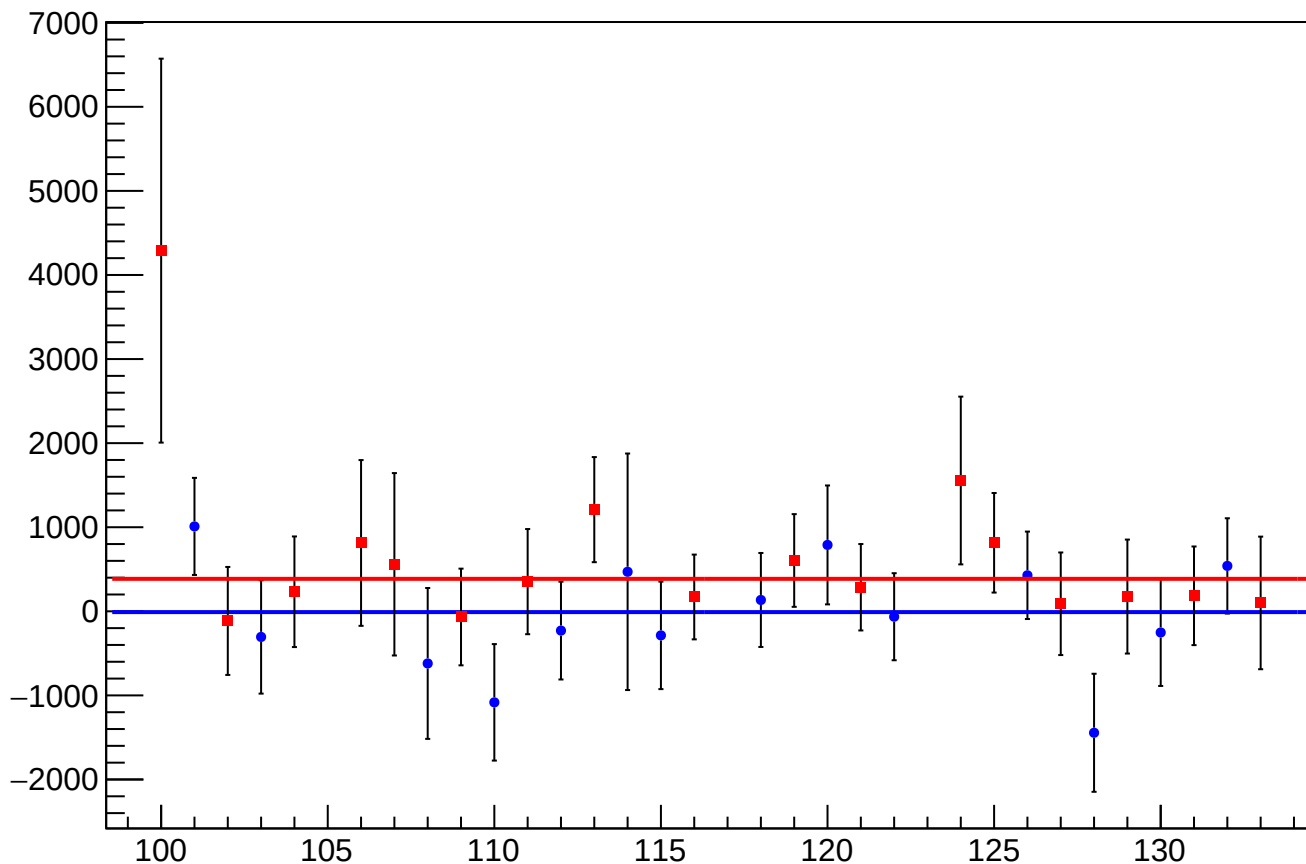
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.260+/-0.006  $\chi^2/\text{NDF}$ : 1076164.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_cor\_correction\_mean vs Slug



Right In: -9.377+/-169.794  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 386.243+/-159.716  $\chi^2/\text{NDF}$ : 9.0/16

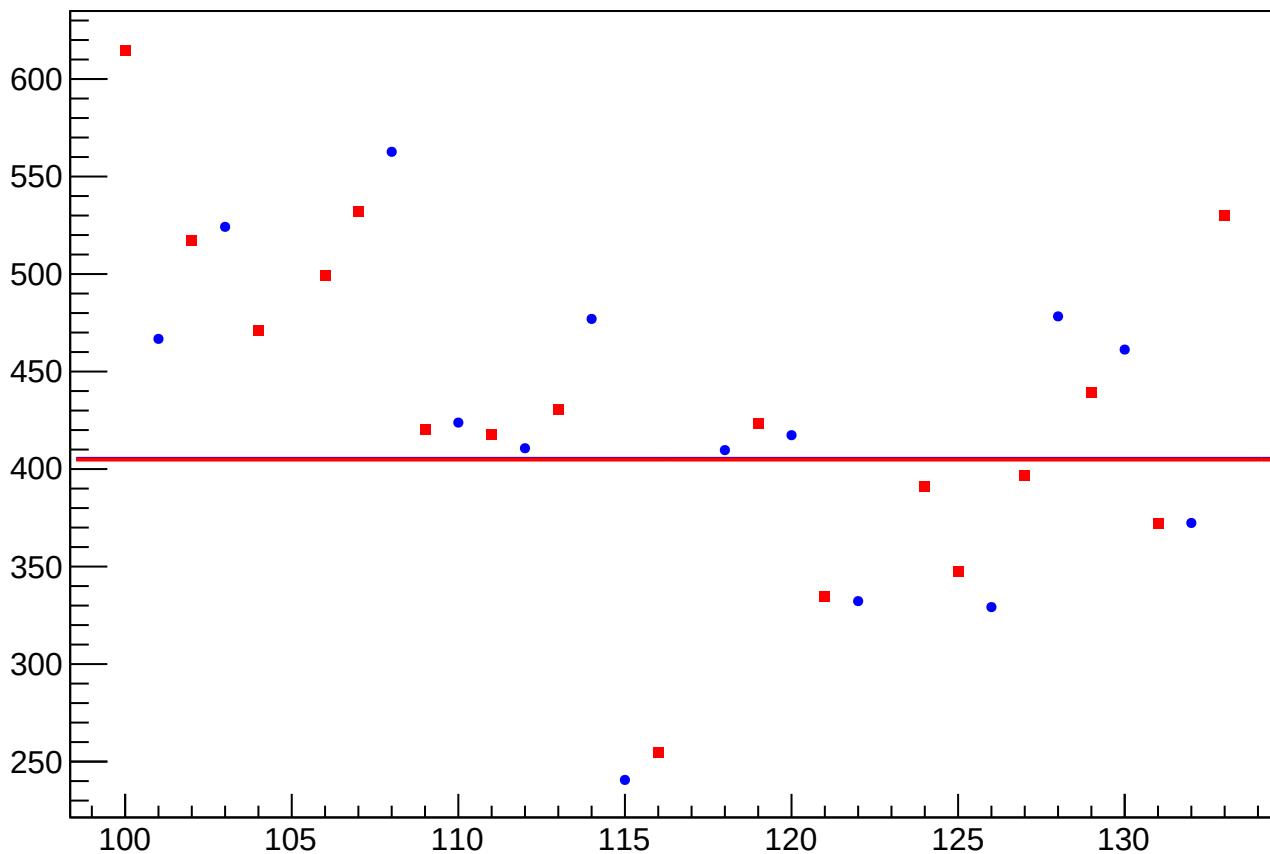
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 200.522+/-116.336  $\chi^2/\text{NDF}$ : 25.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_cor\_correction\_rms vs Slug



Right In: 405.232 $\pm$ 0.120  $\chi^2$ /NDF: 413221.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 404.890 $\pm$ 0.113  $\chi^2$ /NDF: 447883.2/16

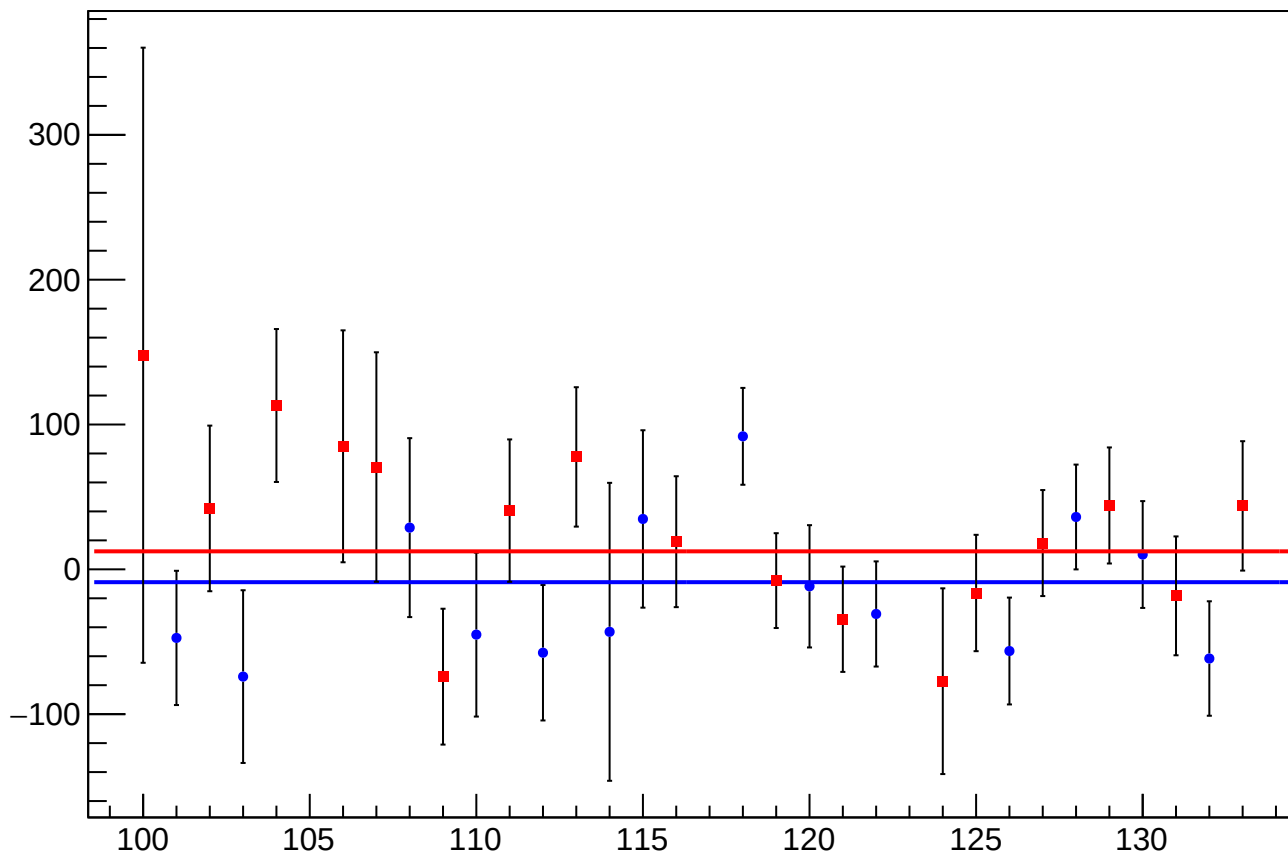
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 405.050 $\pm$ 0.082  $\chi^2$ /NDF: 861109.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: -8.866+/-11.763  $\chi^2/\text{NDF}$ : 19.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12.426+/-11.318  $\chi^2/\text{NDF}$ : 17.5/16

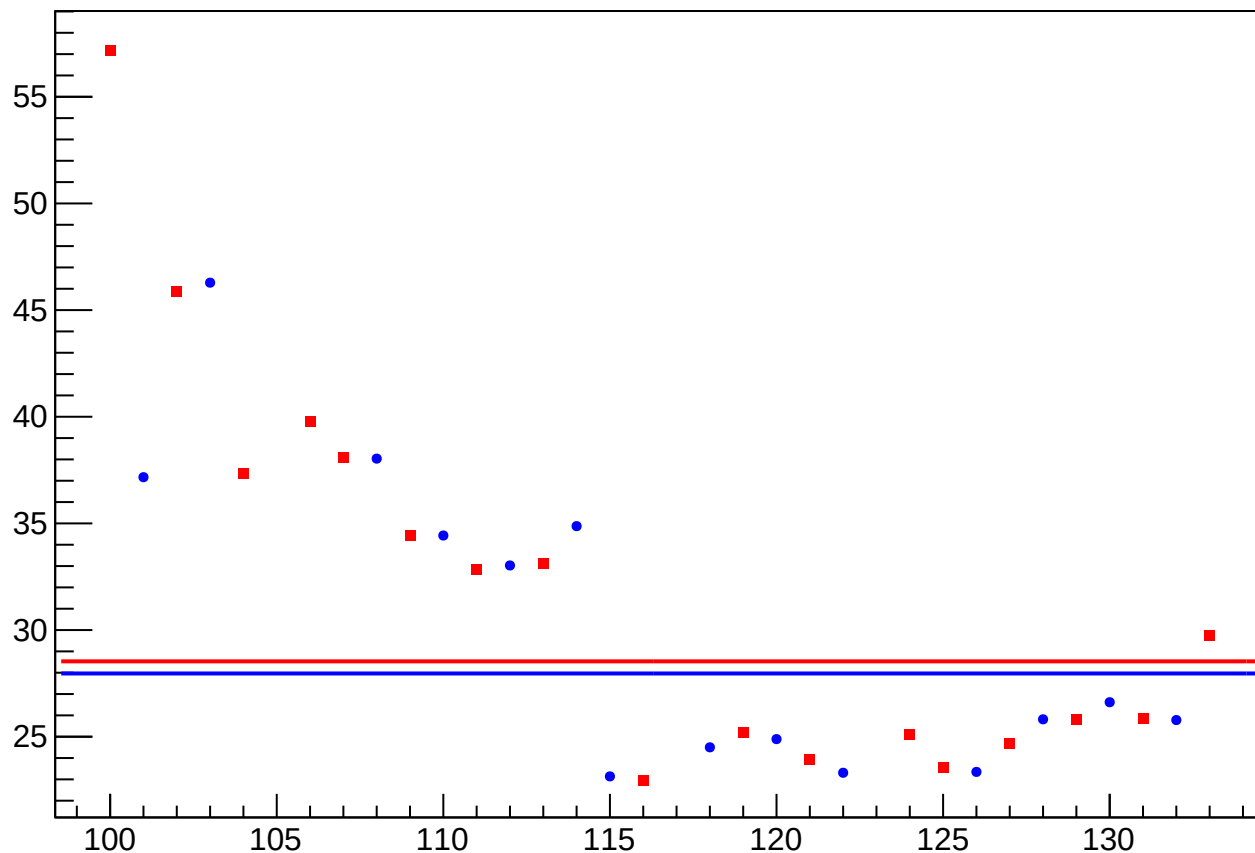
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.191+/-8.156  $\chi^2/\text{NDF}$ : 38.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 27.964+/-0.008  $\chi^2/\text{NDF}$ : 503809.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.533+/-0.008  $\chi^2/\text{NDF}$ : 569928.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

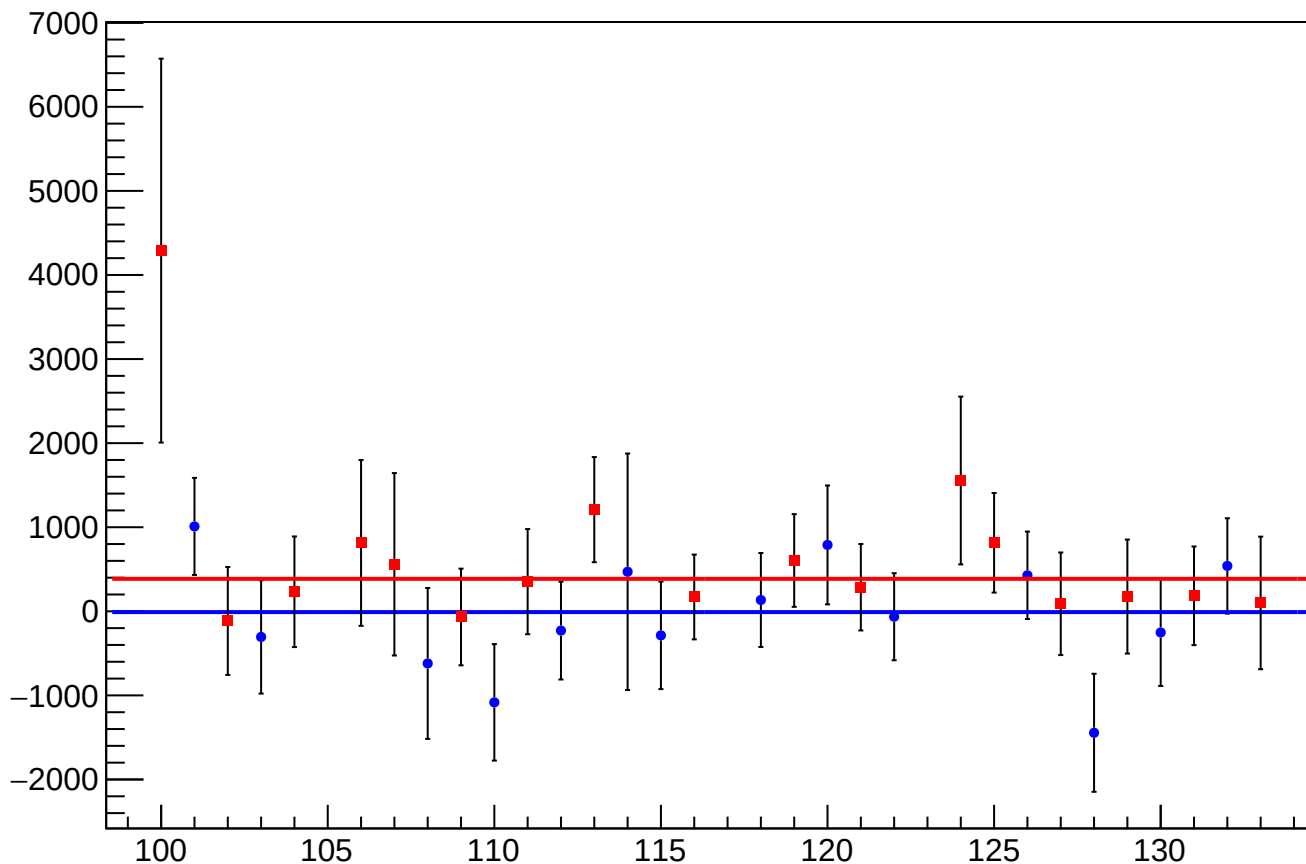
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.260+/-0.006  $\chi^2/\text{NDF}$ : 1076164.5/30

- 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: -9.377+/-169.794  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 386.243+/-159.716  $\chi^2/\text{NDF}$ : 9.0/16

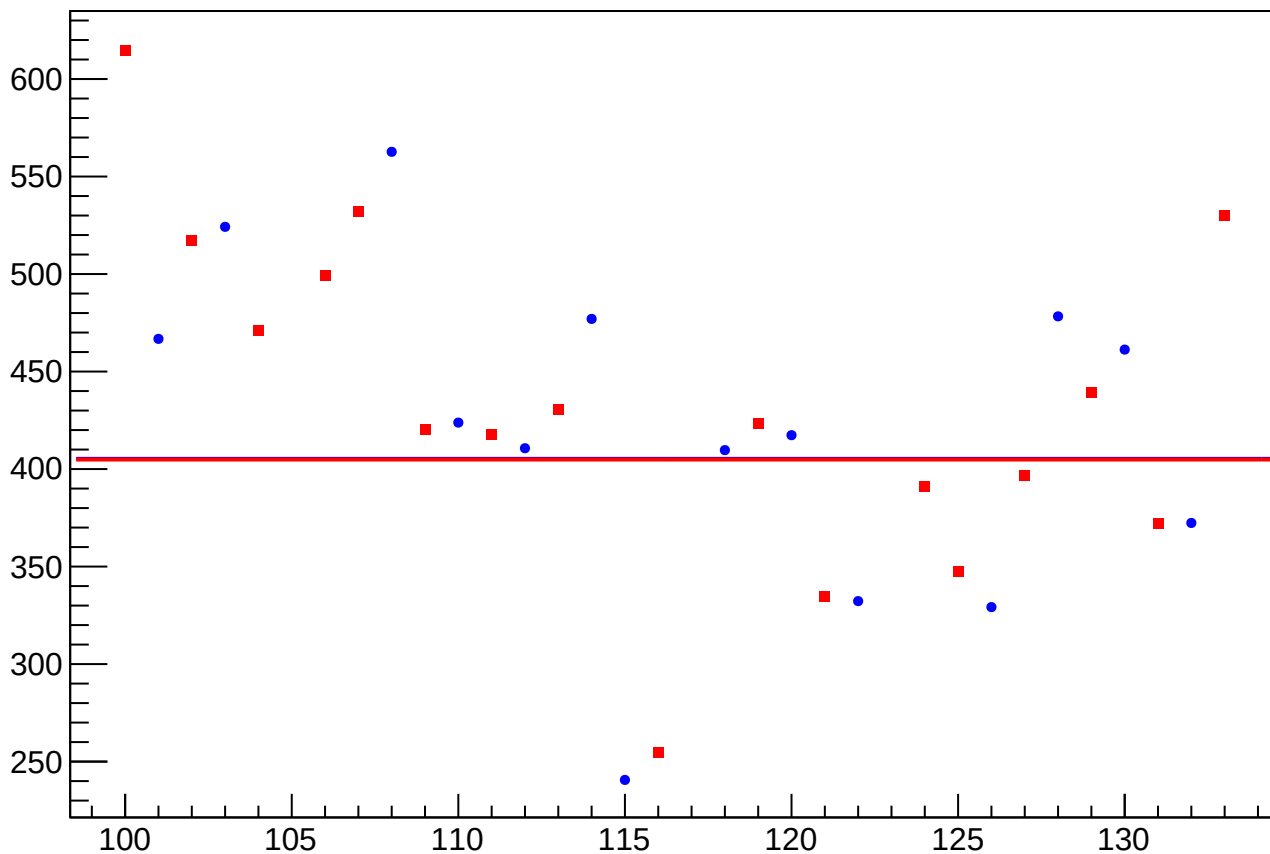
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 200.522+/-116.336  $\chi^2/\text{NDF}$ : 25.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_eigen\_cor\_correction\_rms vs Slug



Right In: 405.232 $\pm$ 0.120  $\chi^2$ /NDF: 413221.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 404.890 $\pm$ 0.113  $\chi^2$ /NDF: 447883.2/16

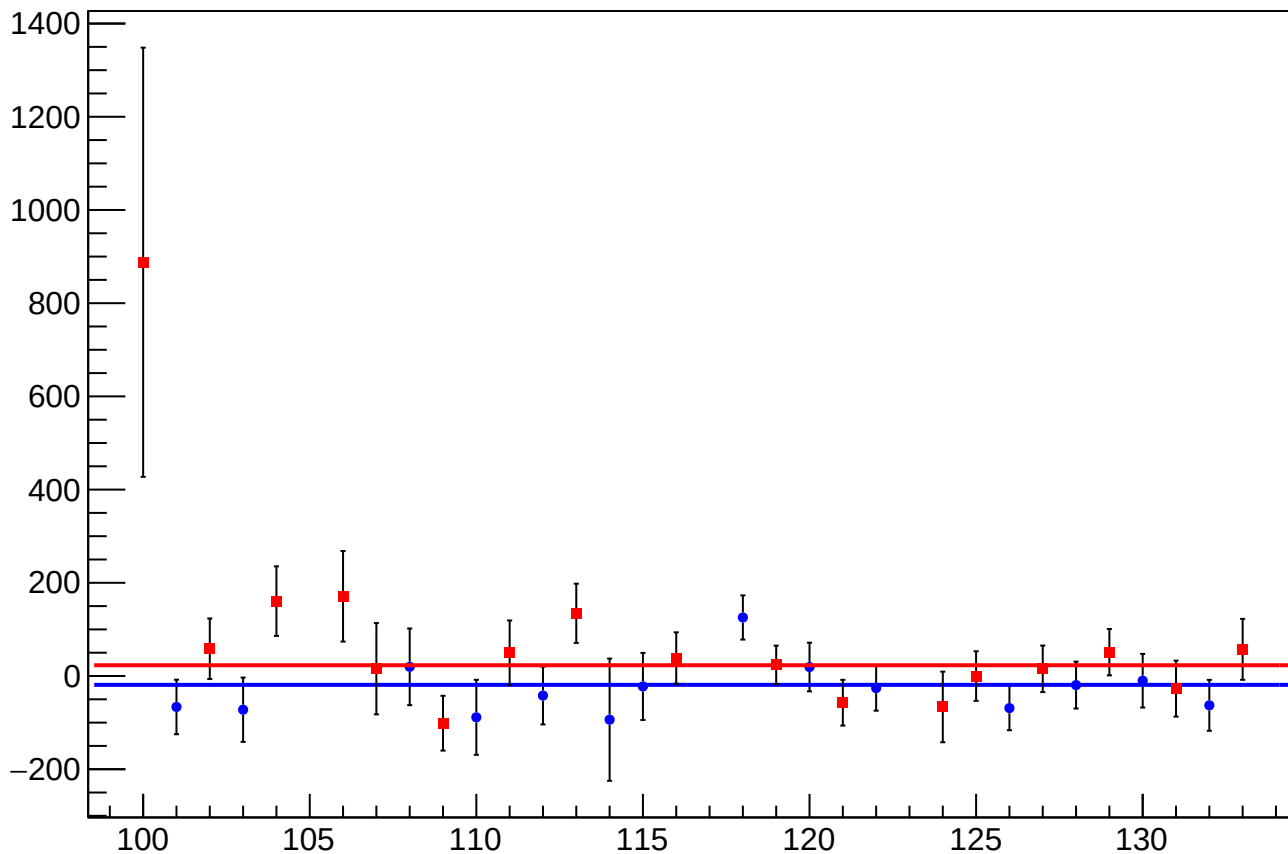
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 405.050 $\pm$ 0.082  $\chi^2$ /NDF: 861109.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In:  $-18.976 \pm 15.755$   $\chi^2/\text{NDF}$ : 14.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $23.111 \pm 14.821$   $\chi^2/\text{NDF}$ : 22.9/16

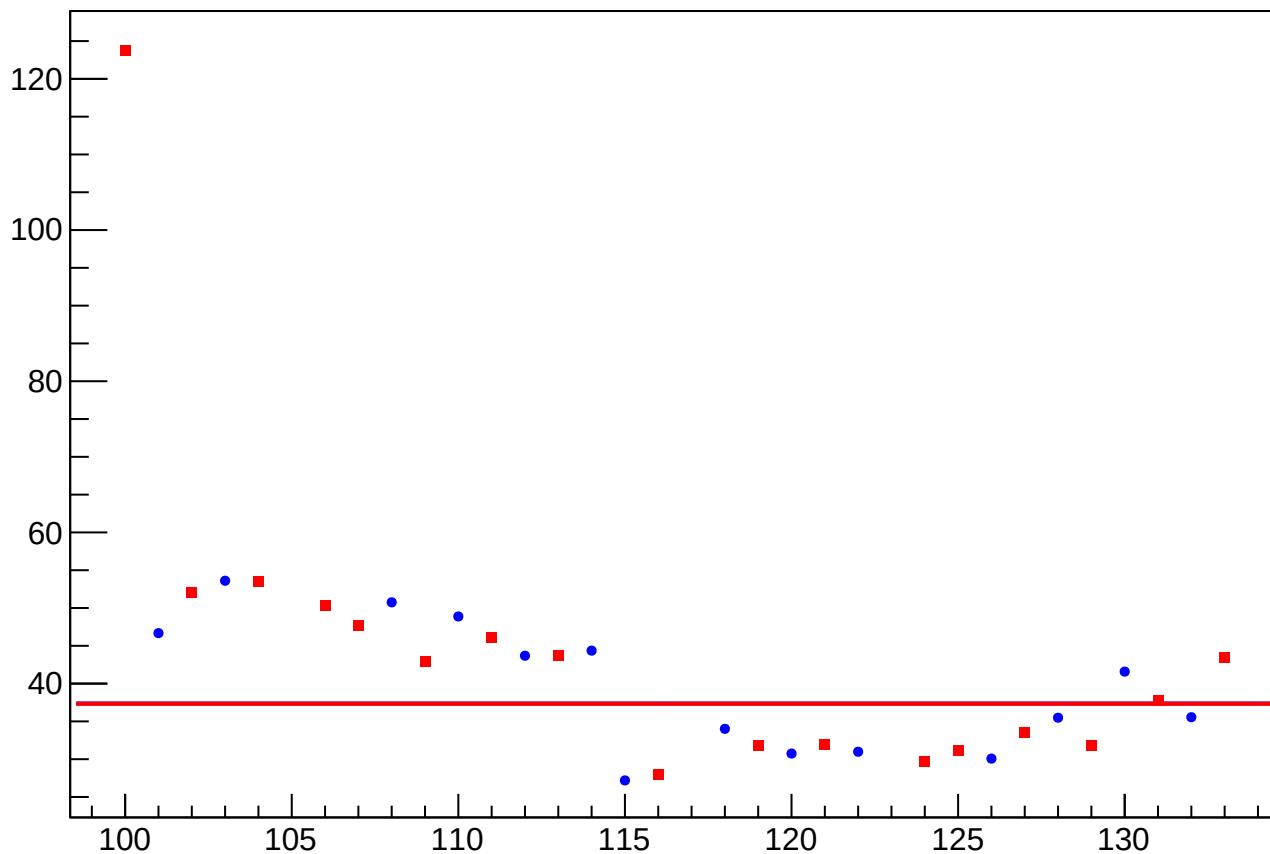
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $3.353 \pm 10.795$   $\chi^2/\text{NDF}$ : 41.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 37.373+/-0.011  $\chi^2/\text{NDF}$ : 461501.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.326+/-0.010  $\chi^2/\text{NDF}$ : 614692.2/16

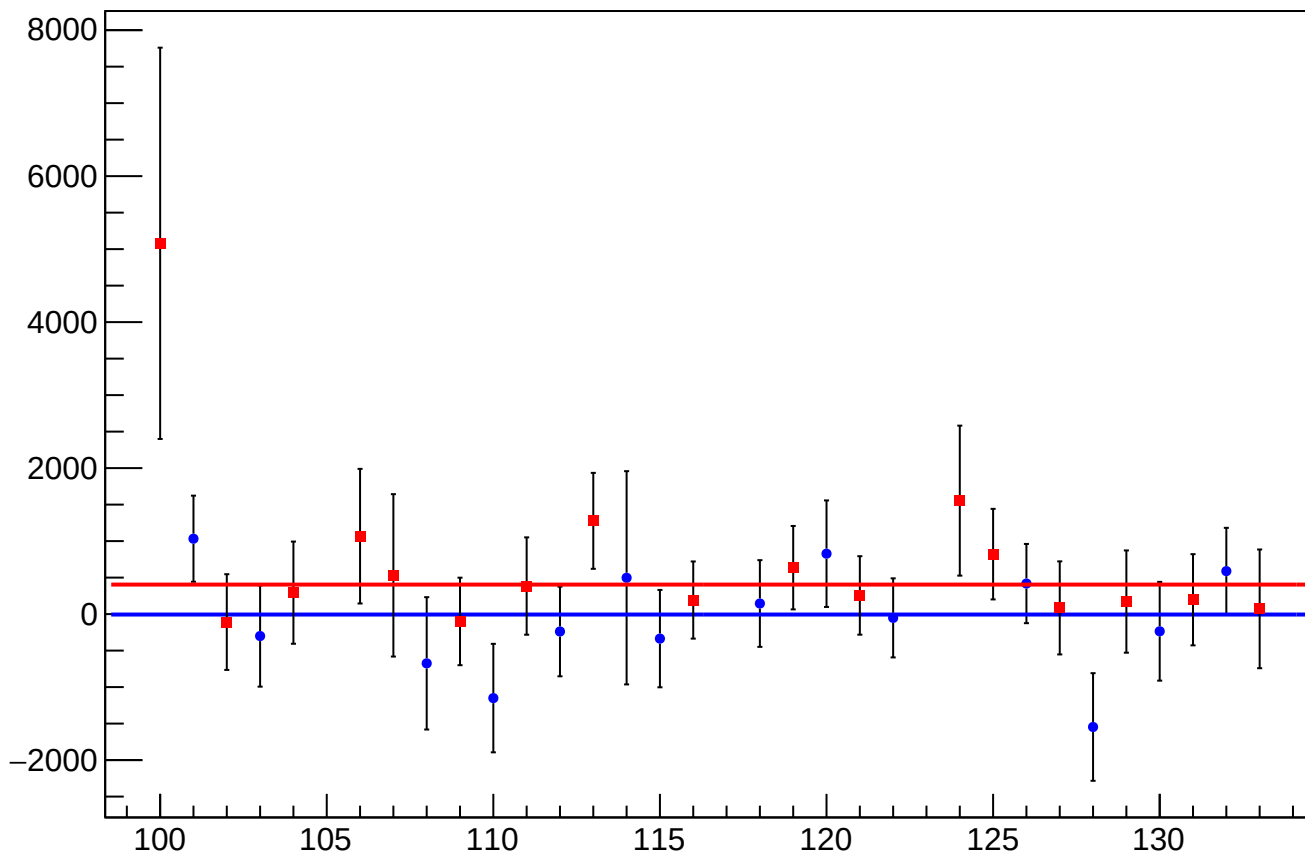
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.348+/-0.008  $\chi^2/\text{NDF}$ : 1076203.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_dit\_correction\_mean vs Slug



Right In:  $-6.006 \pm 177.521$   $\chi^2/\text{NDF}$ : 14.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $404.278 \pm 166.532$   $\chi^2/\text{NDF}$ : 9.4/16

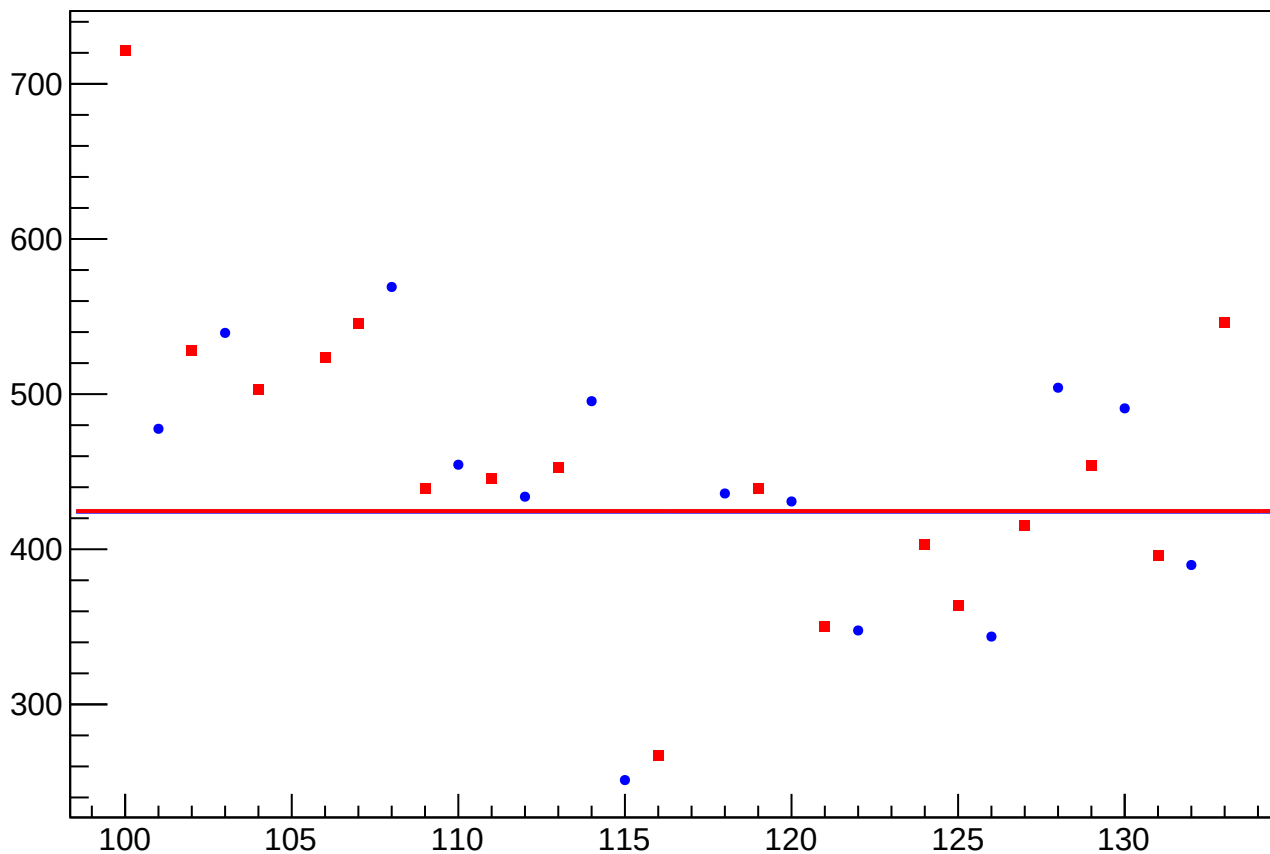
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $212.228 \pm 121.455$   $\chi^2/\text{NDF}$ : 26.5/30

- 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: 424.246+/-0.126  $\chi^2/\text{NDF}$ : 400335.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 424.615+/-0.118  $\chi^2/\text{NDF}$ : 442801.3/16

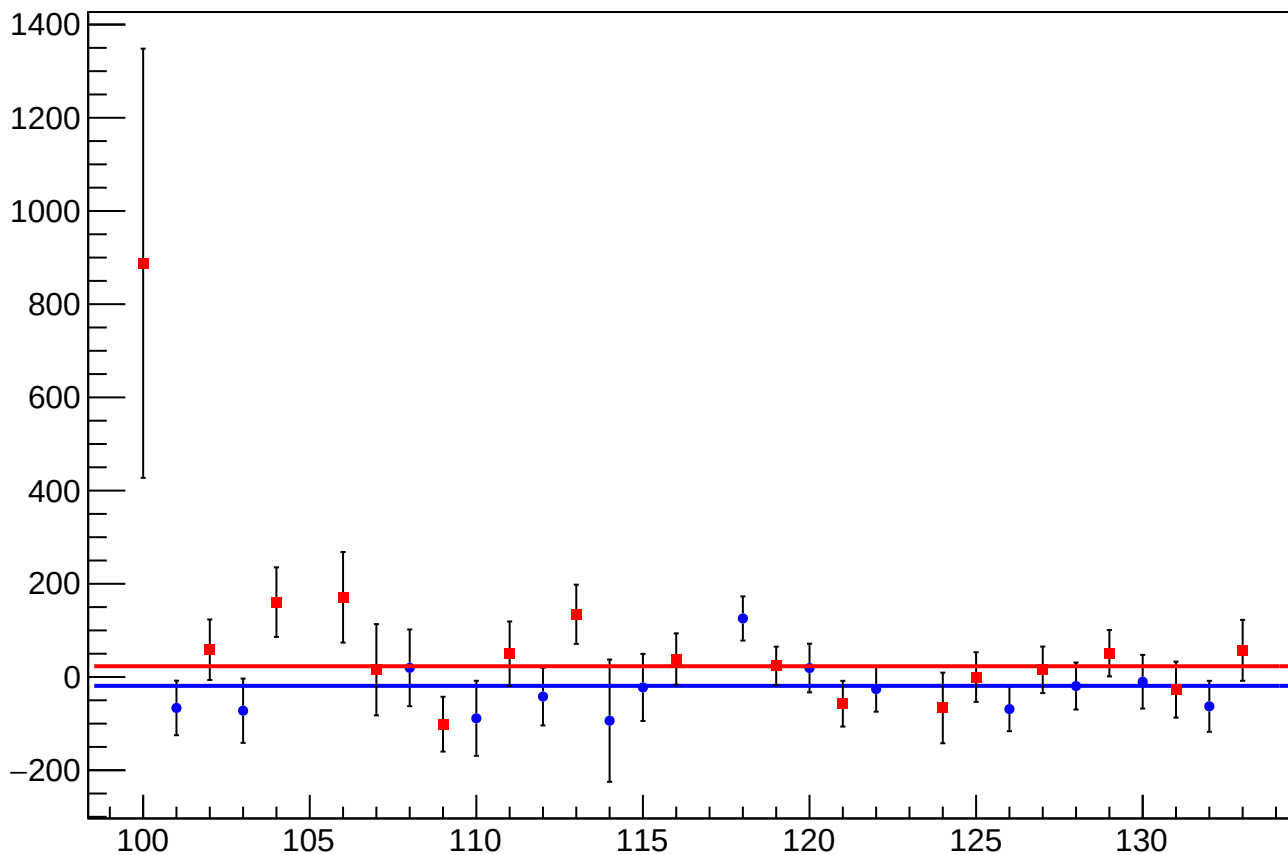
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 424.442+/-0.086  $\chi^2/\text{NDF}$ : 843141.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In:  $-18.976 \pm 15.755$   $\chi^2/\text{NDF}$ : 14.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $23.110 \pm 14.820$   $\chi^2/\text{NDF}$ : 22.9/16

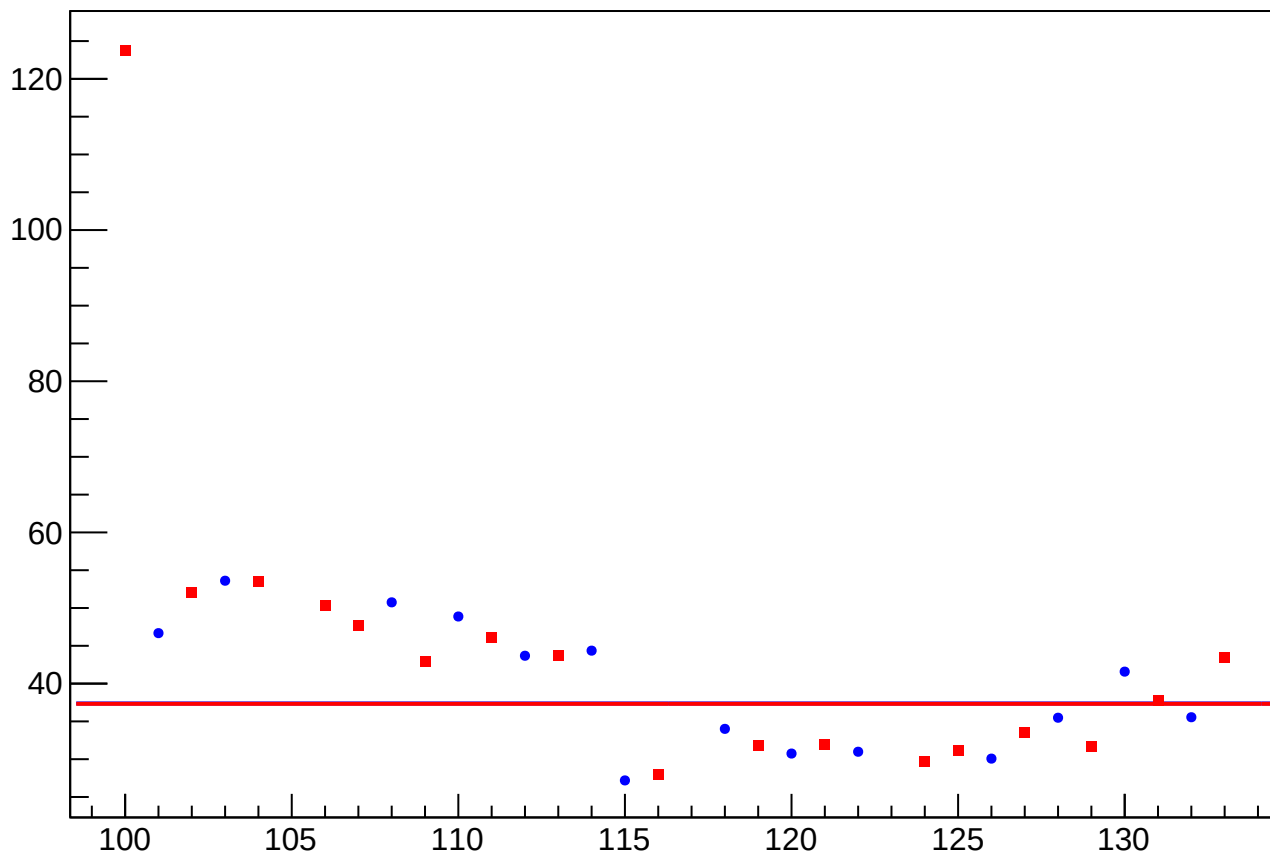
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $3.352 \pm 10.795$   $\chi^2/\text{NDF}$ : 41.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# eigen\_dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 37.372 $\pm$ 0.011  $\chi^2$ /NDF: 461470.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 37.325 $\pm$ 0.010  $\chi^2$ /NDF: 614673.7/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

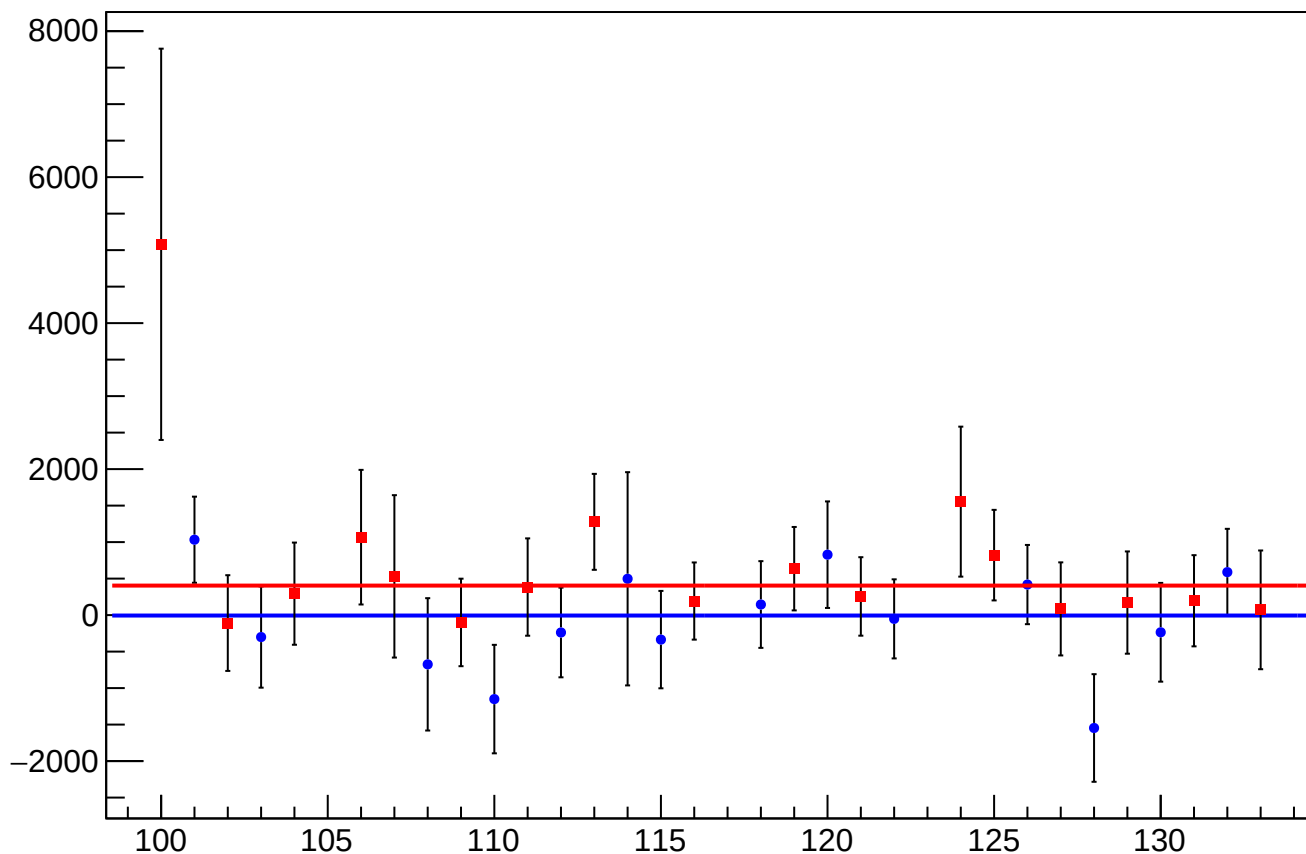
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.347 $\pm$ 0.008  $\chi^2$ /NDF: 1076153.7/30

- 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:  $-6.007 \pm 177.521$   $\chi^2/\text{NDF}$ : 14.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $404.277 \pm 166.531$   $\chi^2/\text{NDF}$ : 9.4/16

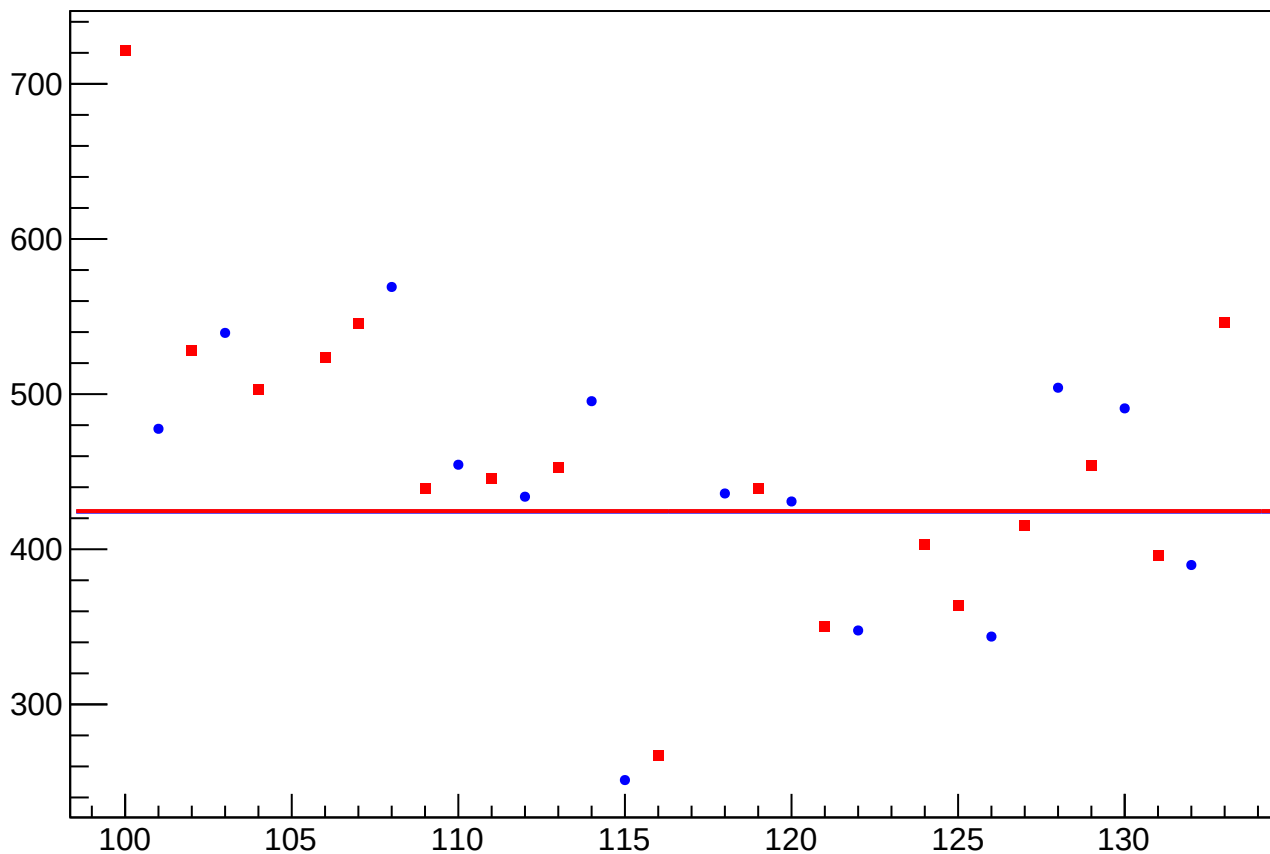
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $212.226 \pm 121.455$   $\chi^2/\text{NDF}$ : 26.5/30

- 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: 424.245+/-0.126  $\chi^2/\text{NDF}$ : 400327.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 424.614+/-0.118  $\chi^2/\text{NDF}$ : 442795.1/16

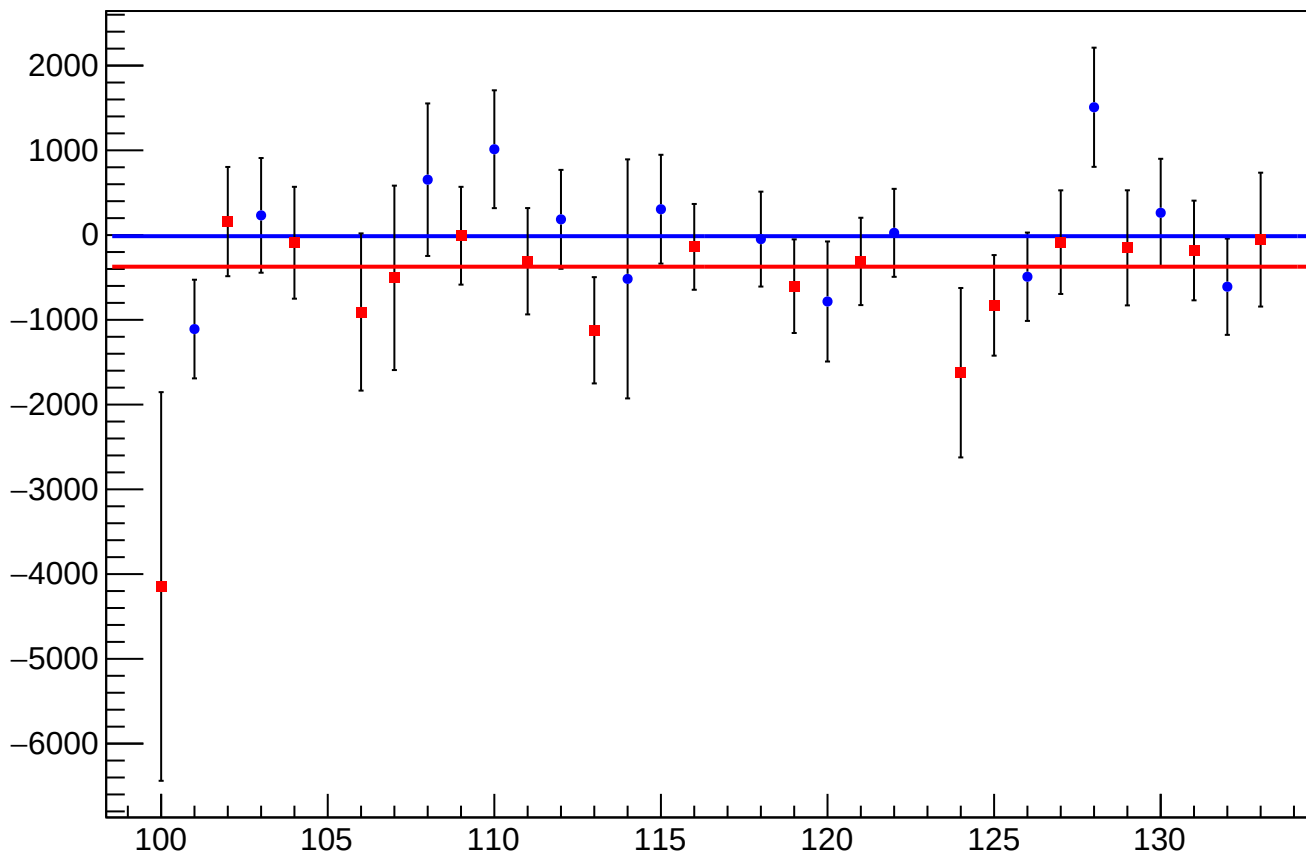
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 424.441+/-0.086  $\chi^2/\text{NDF}$ : 843126.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In:  $-12.955 \pm 170.341$   $\chi^2/\text{NDF}$ : 14.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-372.983 \pm 159.888$   $\chi^2/\text{NDF}$ : 8.9/16

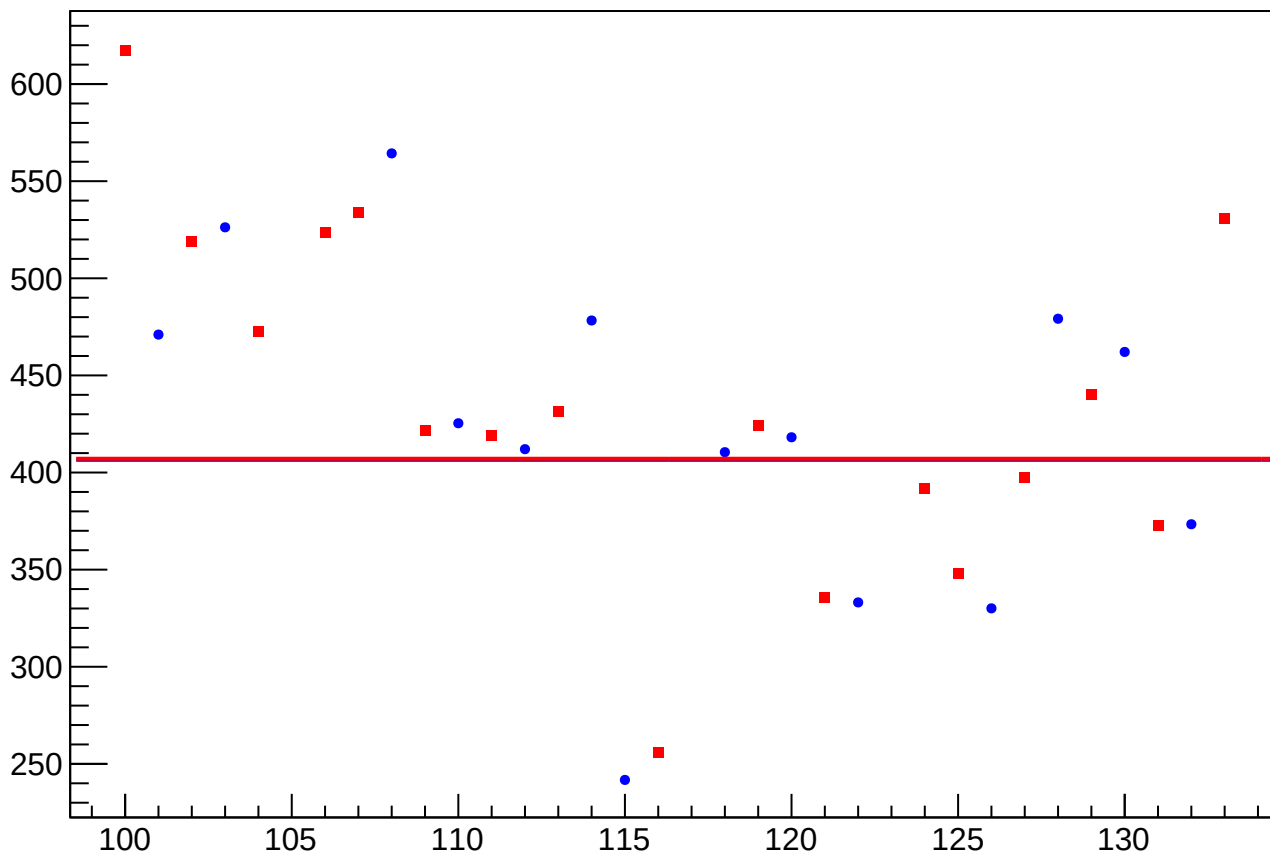
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-204.353 \pm 116.578$   $\chi^2/\text{NDF}$ : 26.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 406.567+/-0.120  $\chi^2/\text{NDF}$ : 414219.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 407.095+/-0.113  $\chi^2/\text{NDF}$ : 460774.2/16

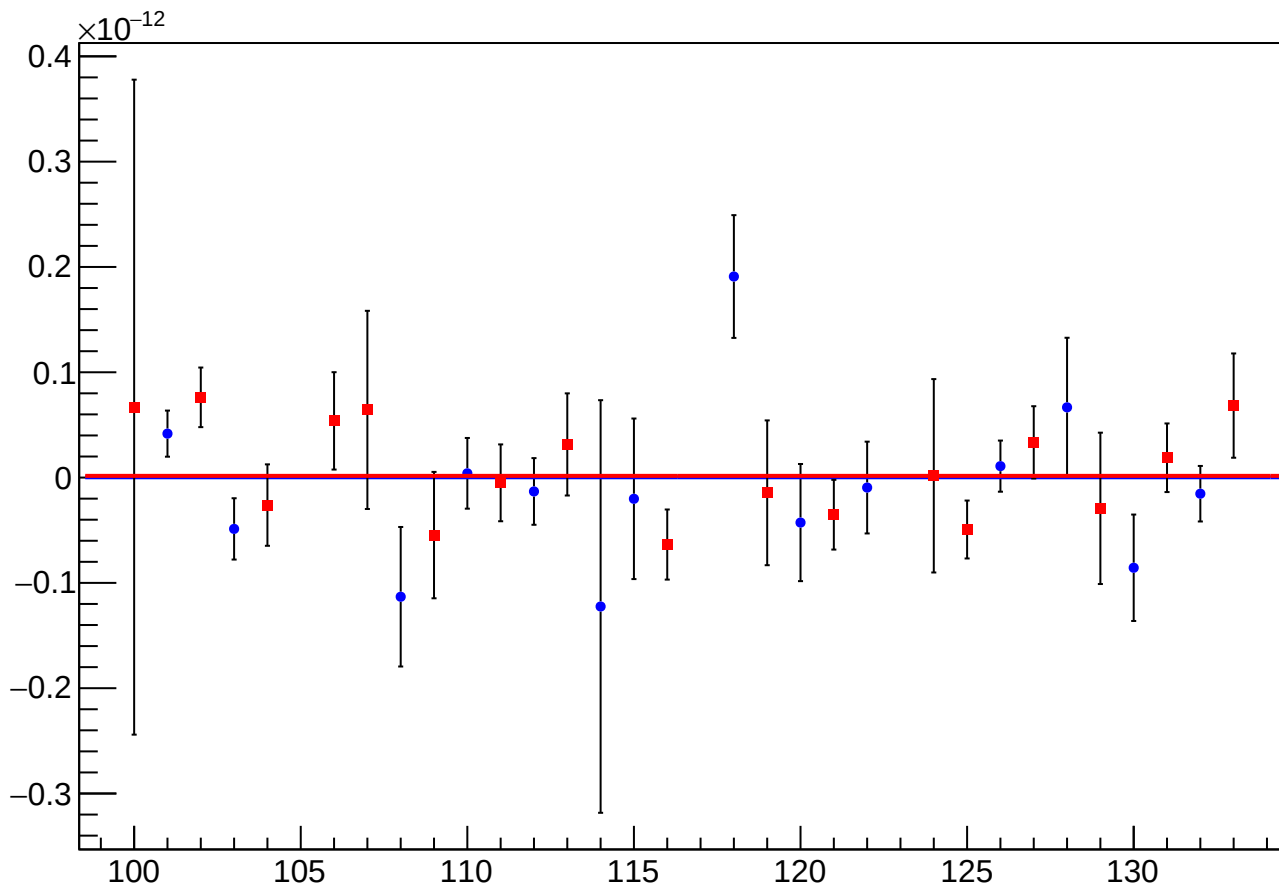
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 406.847+/-0.082  $\chi^2/\text{NDF}$ : 875004.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_reg\_vs\_cor\_diff\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 25.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 22.2/16

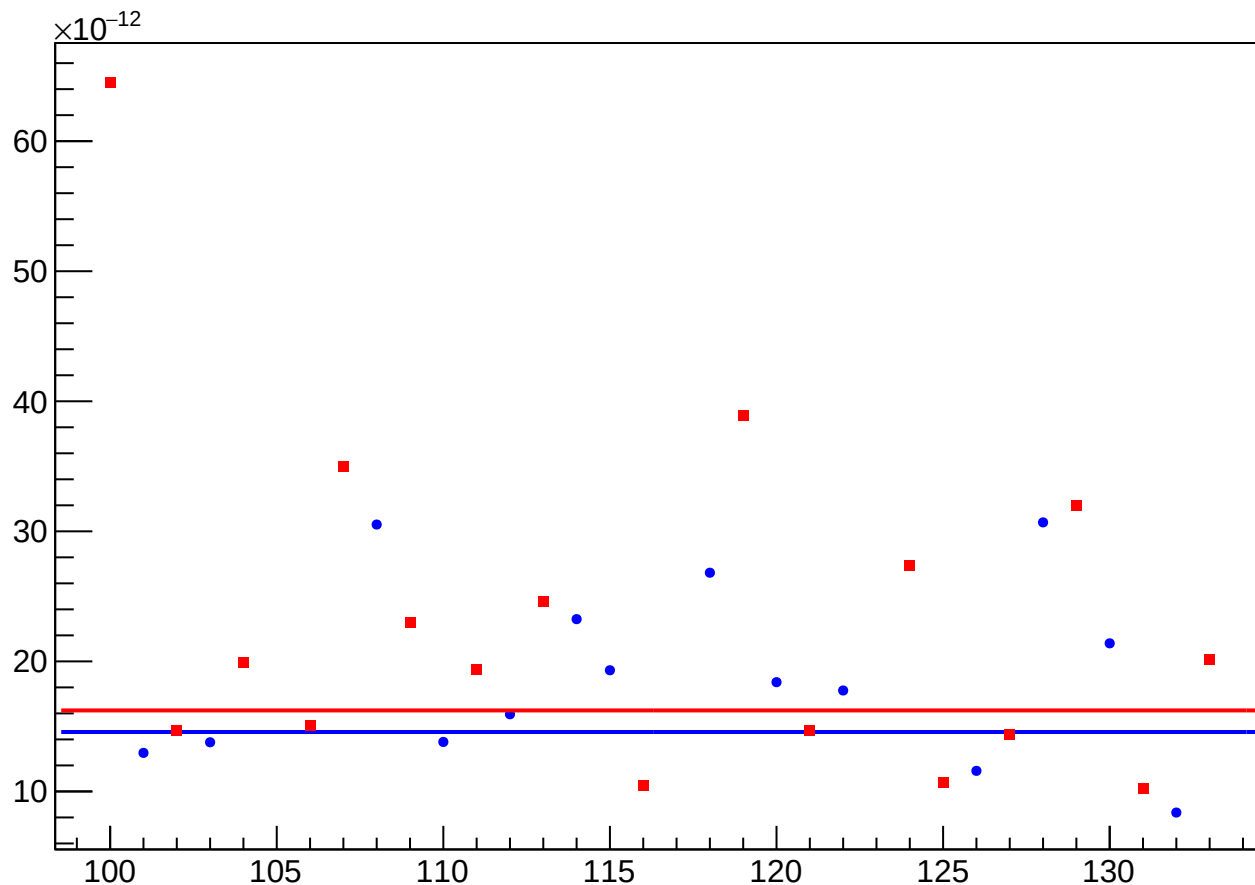
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 48.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_reg\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 549222.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 830760.7/16

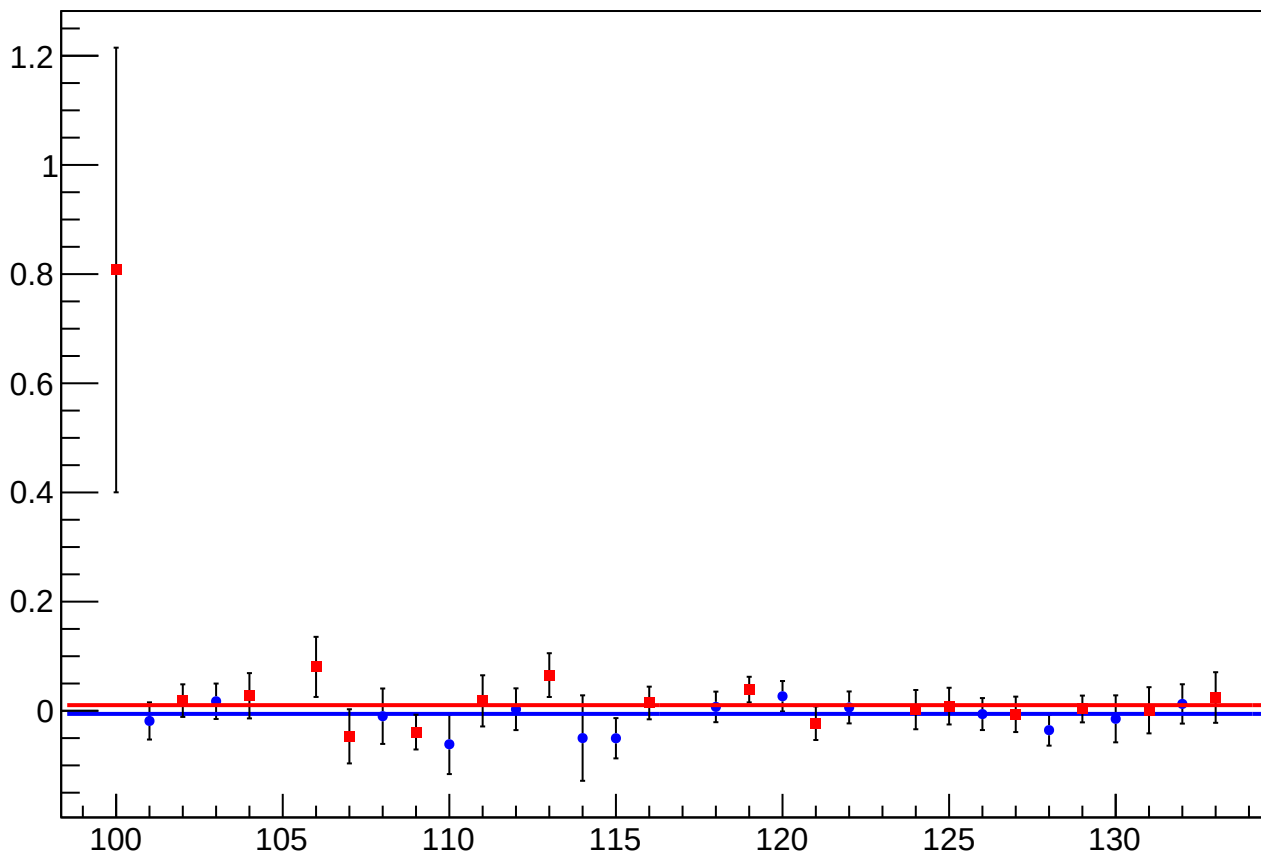
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1407901.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_1357\_2468\_dd\_dit\_vs\_cor\_diff\_mean vs Slug



Right In: -0.006+/-0.009  $\chi^2/\text{NDF}$ : 6.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.010+/-0.009  $\chi^2/\text{NDF}$ : 14.5/16

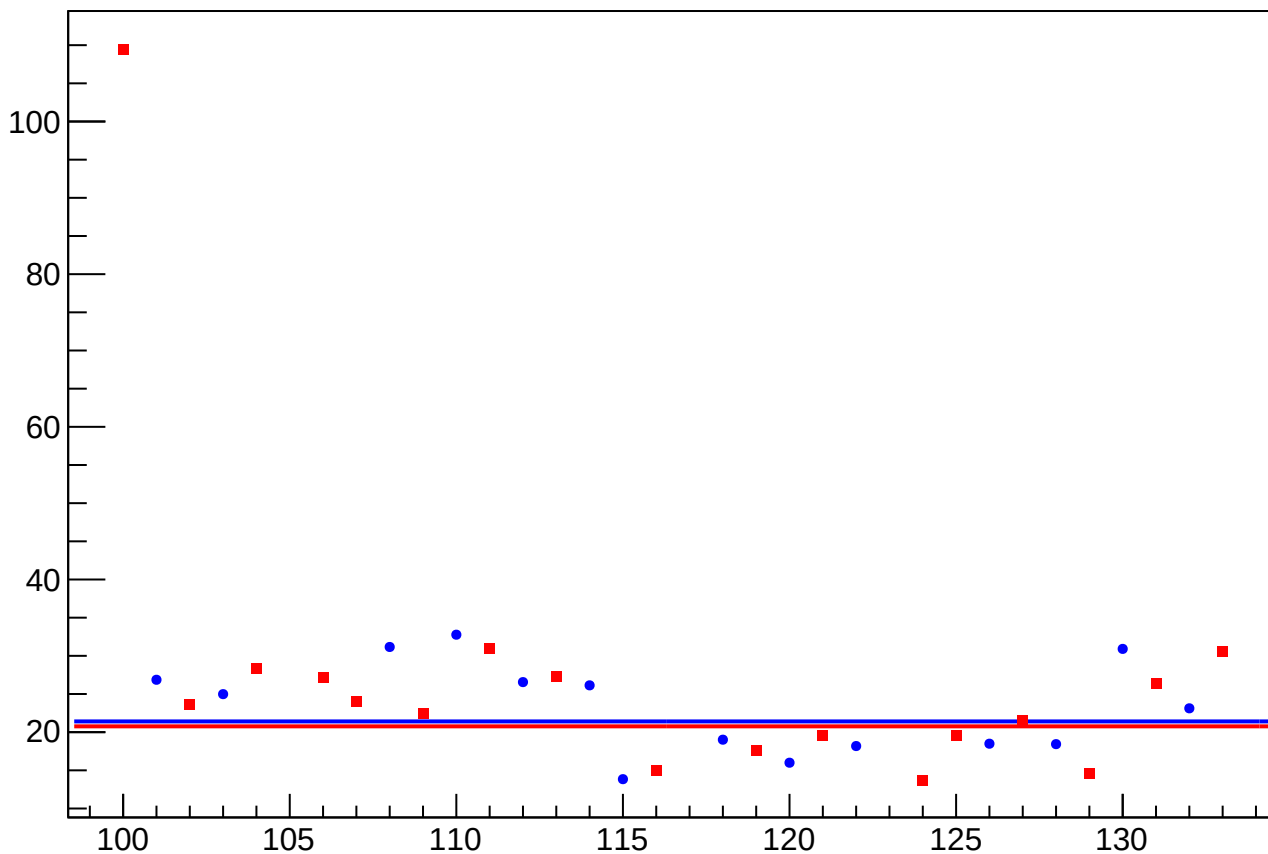
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.006  $\chi^2/\text{NDF}$ : 22.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 21.409+/-0.007  $\chi^2/\text{NDF}$ : 621539.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.763+/-0.006  $\chi^2/\text{NDF}$ : 817197.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

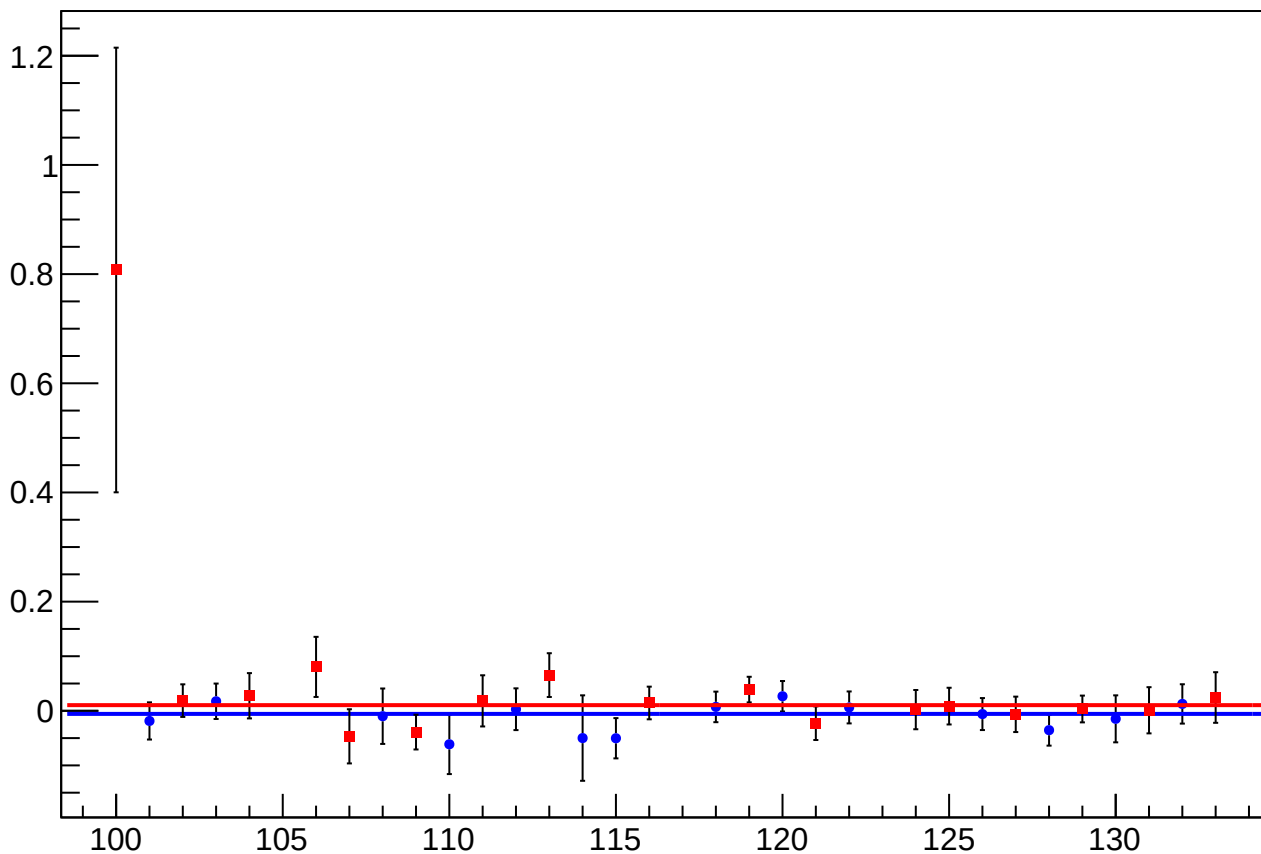
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.057+/-0.004  $\chi^2/\text{NDF}$ : 1443977.8/30

- 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: -0.006 $\pm$ 0.009  $\chi^2$ /NDF: 6.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.009  $\chi^2$ /NDF: 14.5/16

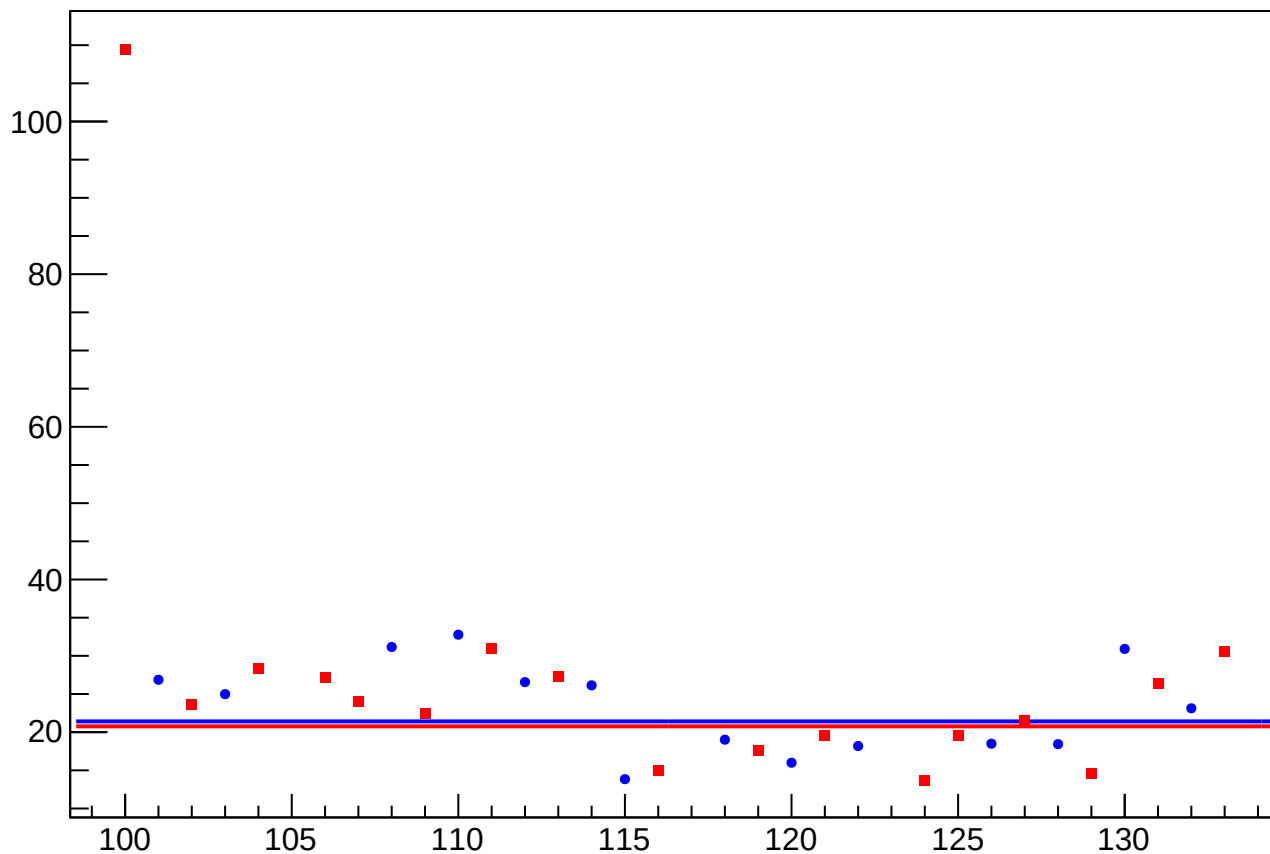
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.006  $\chi^2$ /NDF: 22.8/30

- 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: 21.409+/-0.007  $\chi^2/\text{NDF}$ : 621539.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.763+/-0.006  $\chi^2/\text{NDF}$ : 817197.0/16

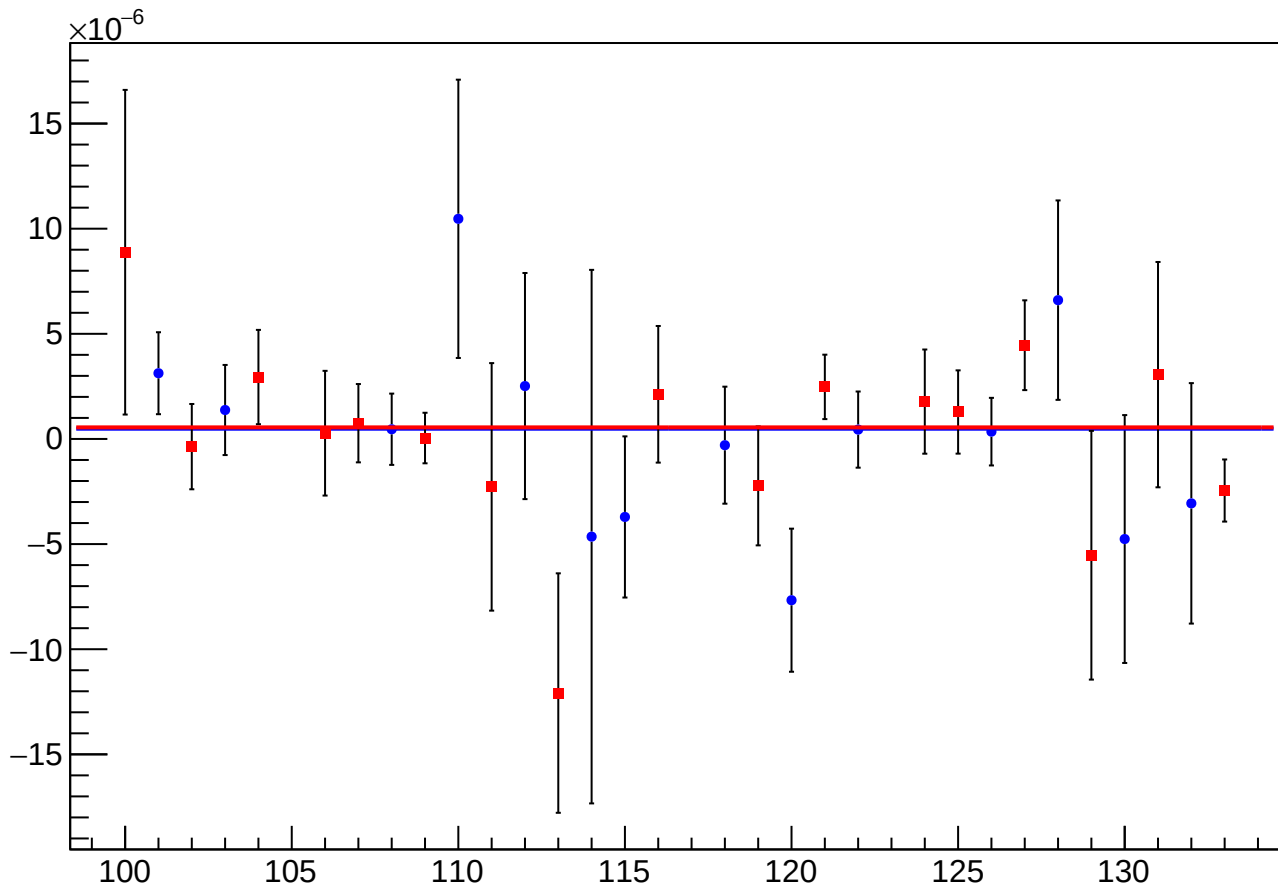
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.057+/-0.004  $\chi^2/\text{NDF}$ : 1443977.8/30

- 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: 14.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 19.8/16

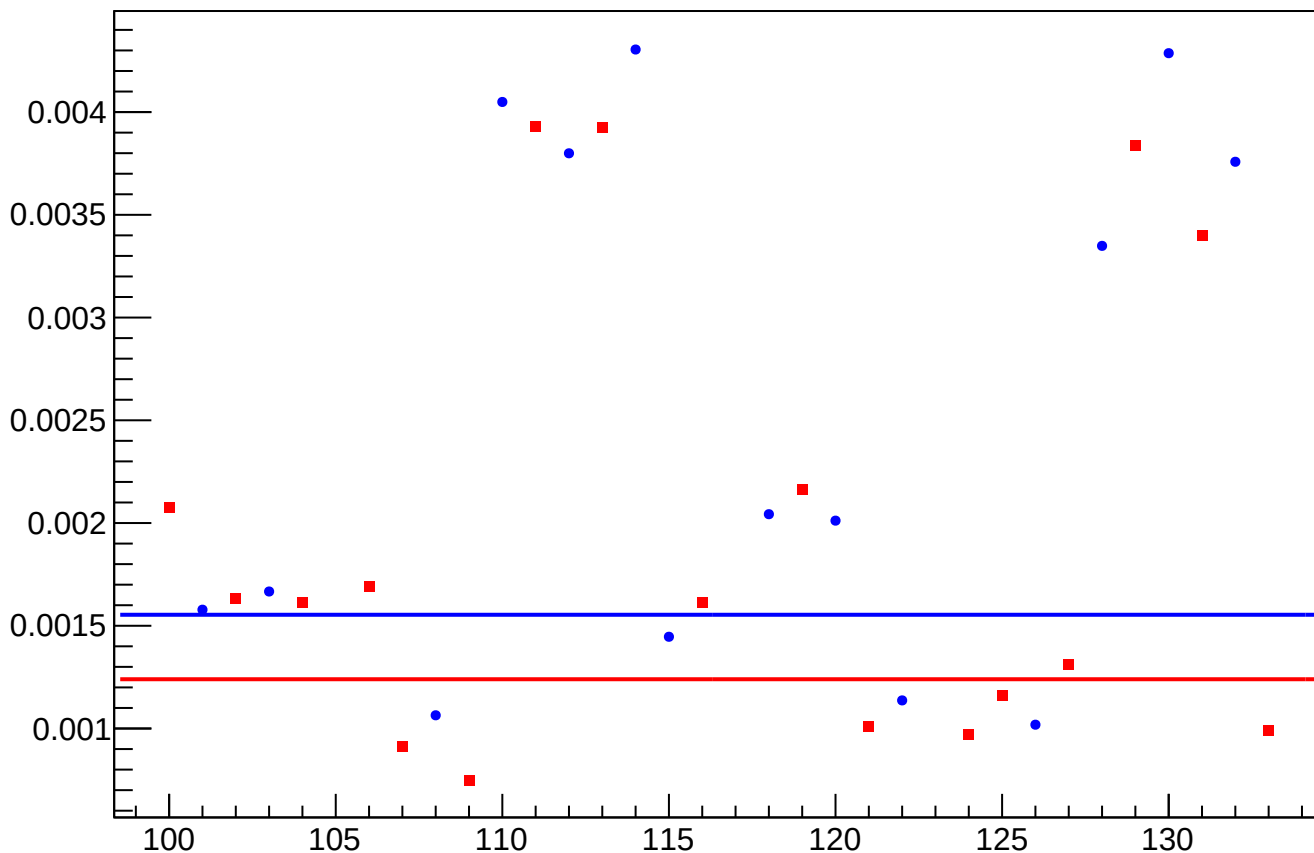
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 34.2/30

- 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  $\chi^2/\text{NDF}$ : 2340967.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 2541196.3/16

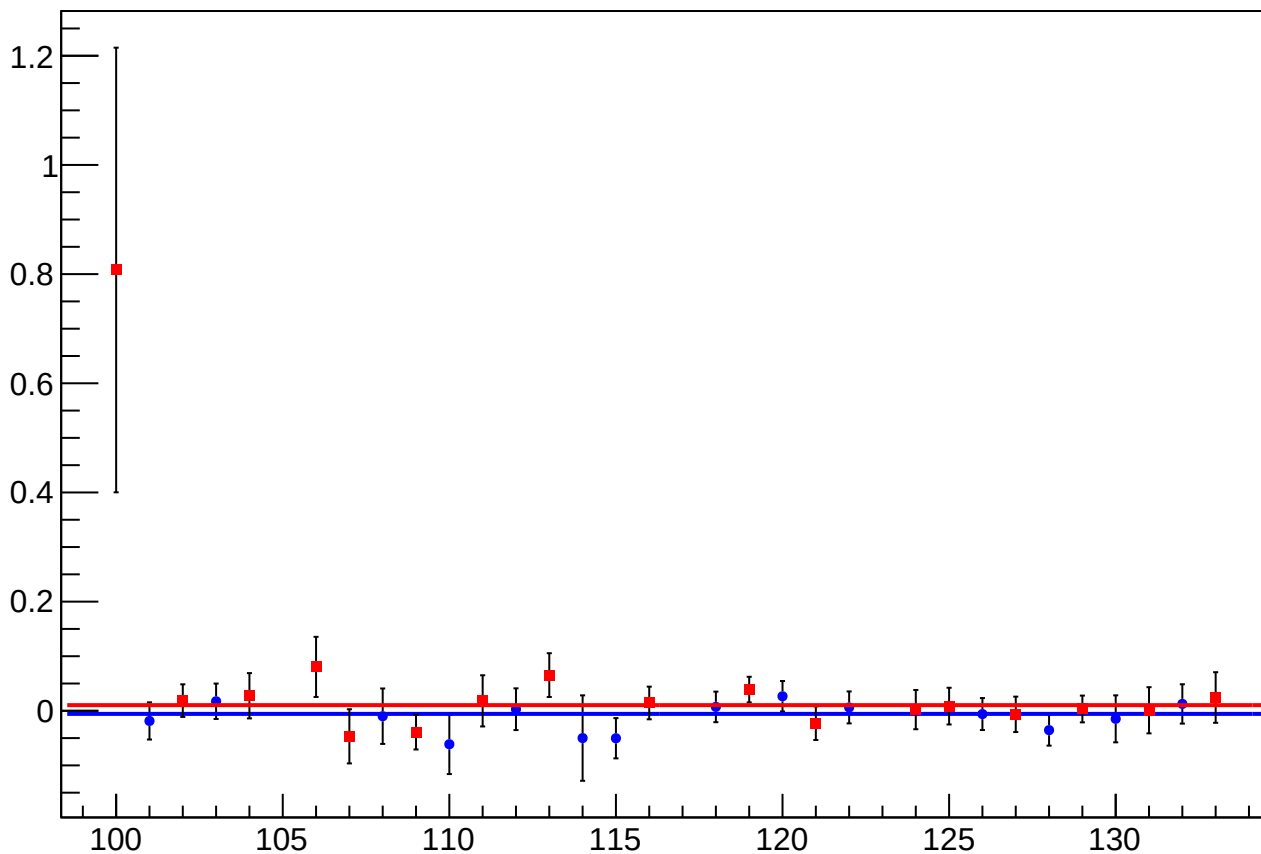
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 5128347.6/30

- 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: -0.006 $\pm$ 0.009  $\chi^2$ /NDF: 6.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.009  $\chi^2$ /NDF: 14.5/16

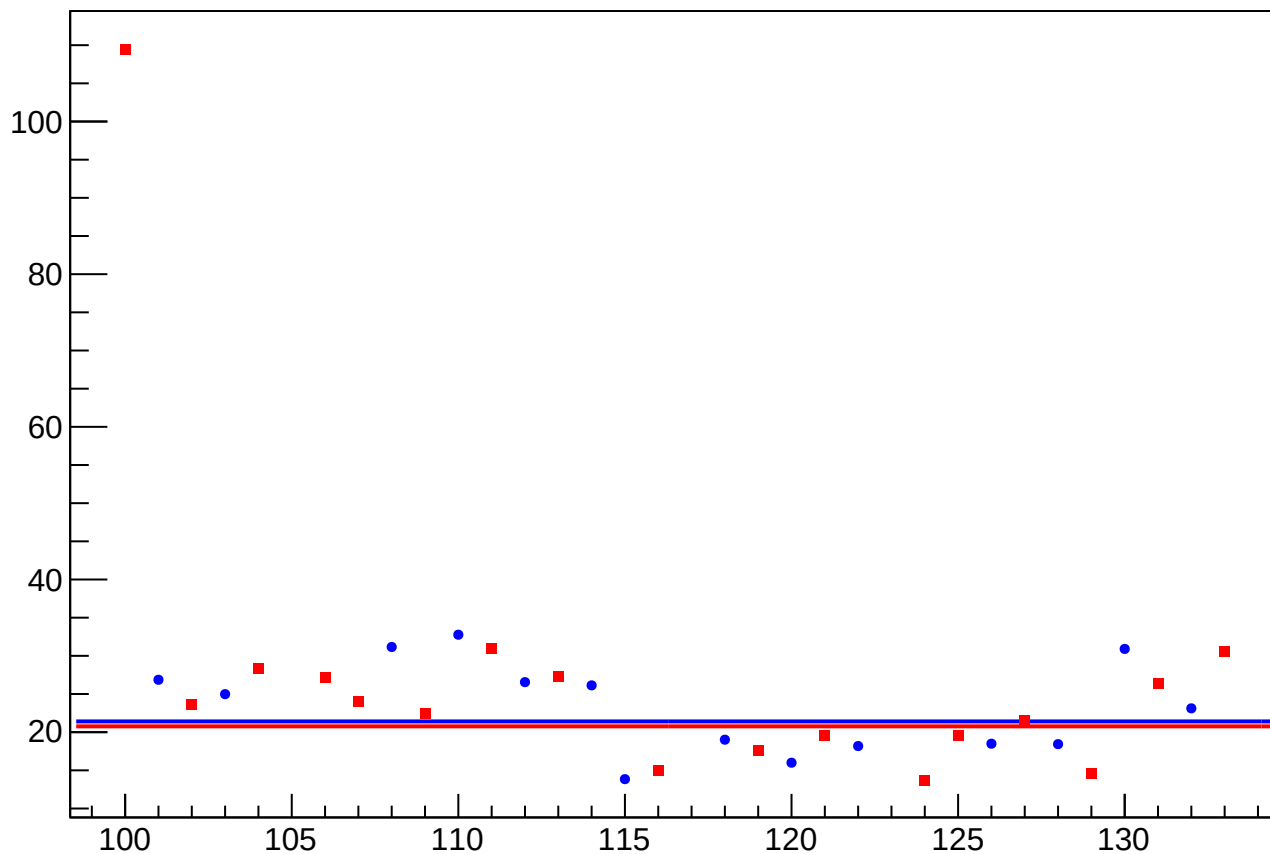
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.006  $\chi^2$ /NDF: 22.8/30

- 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: 21.408+/-0.007  $\chi^2/\text{NDF}$ : 621444.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.762+/-0.006  $\chi^2/\text{NDF}$ : 817228.6/16

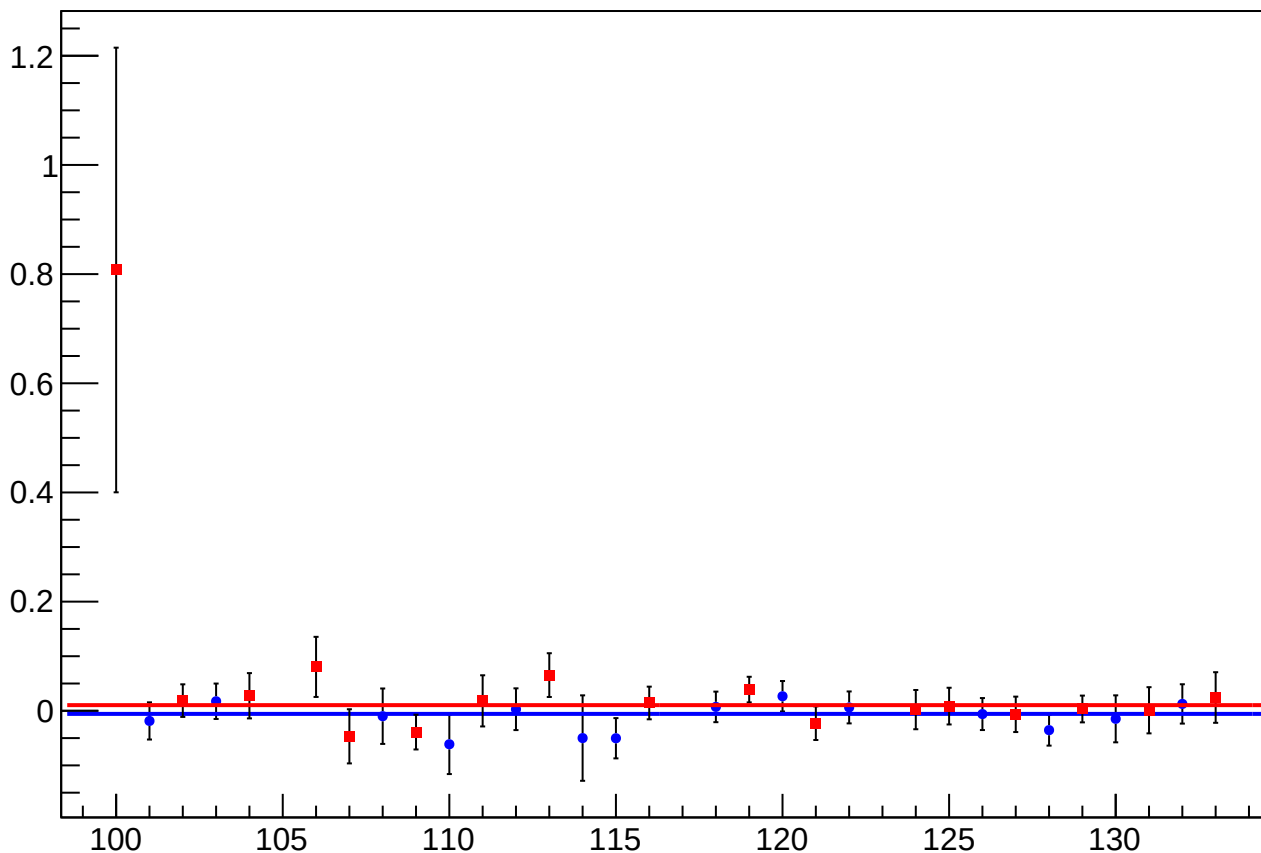
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.056+/-0.004  $\chi^2/\text{NDF}$ : 1443915.3/30

- 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: -0.006 $\pm$ 0.009  $\chi^2$ /NDF: 6.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.009  $\chi^2$ /NDF: 14.5/16

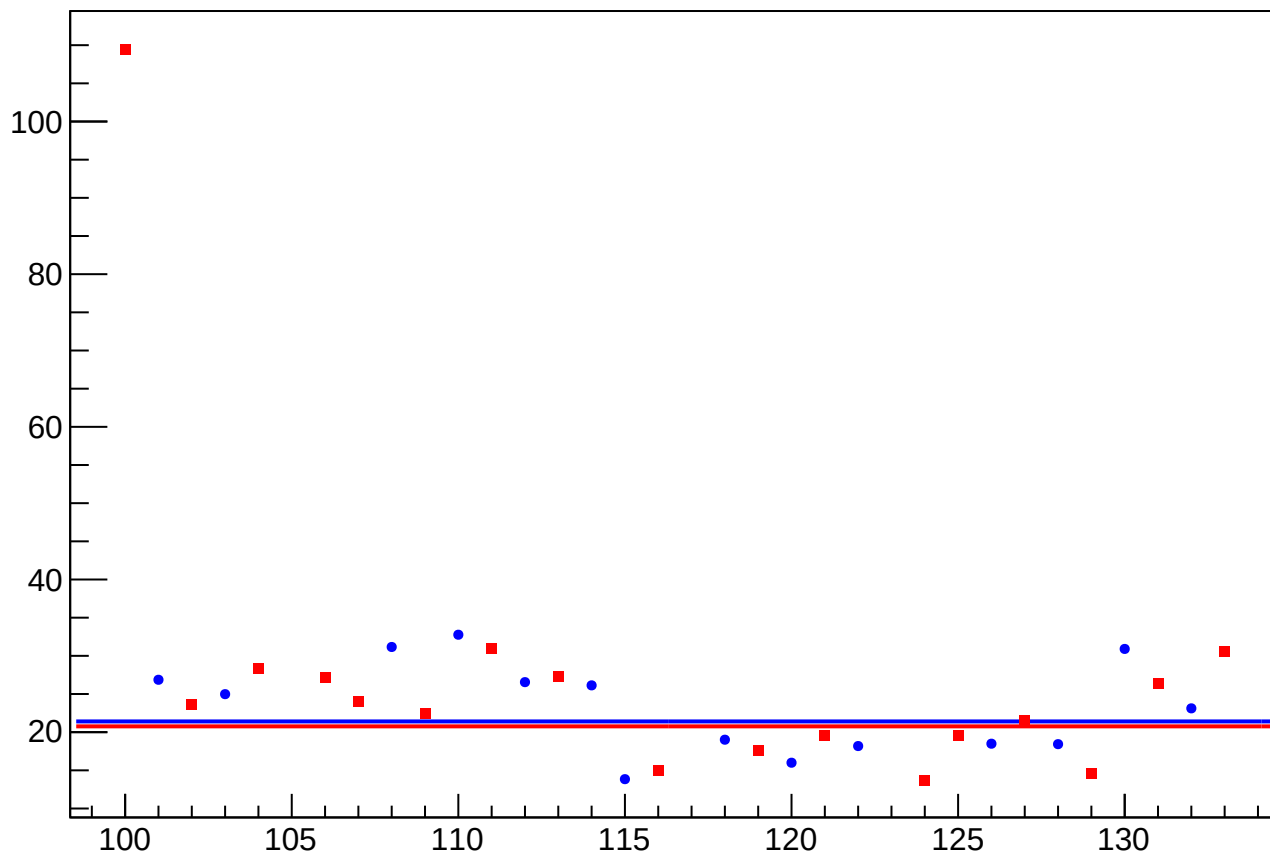
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.006  $\chi^2$ /NDF: 22.8/30

- 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: 21.408+/-0.007  $\chi^2/\text{NDF}$ : 621444.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.762+/-0.006  $\chi^2/\text{NDF}$ : 817228.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

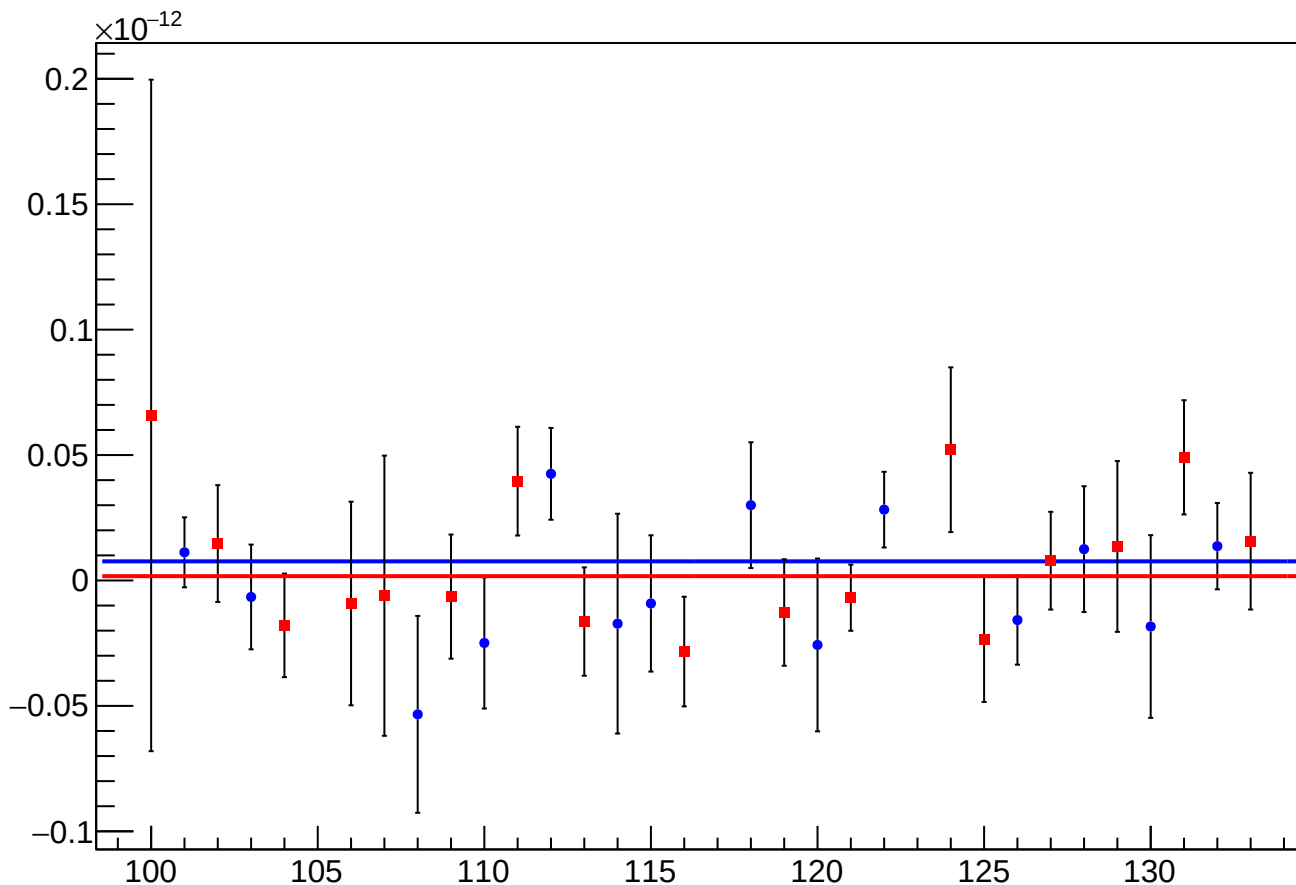
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.056+/-0.004  $\chi^2/\text{NDF}$ : 1443915.3/30

- 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: 14.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 16.3/16

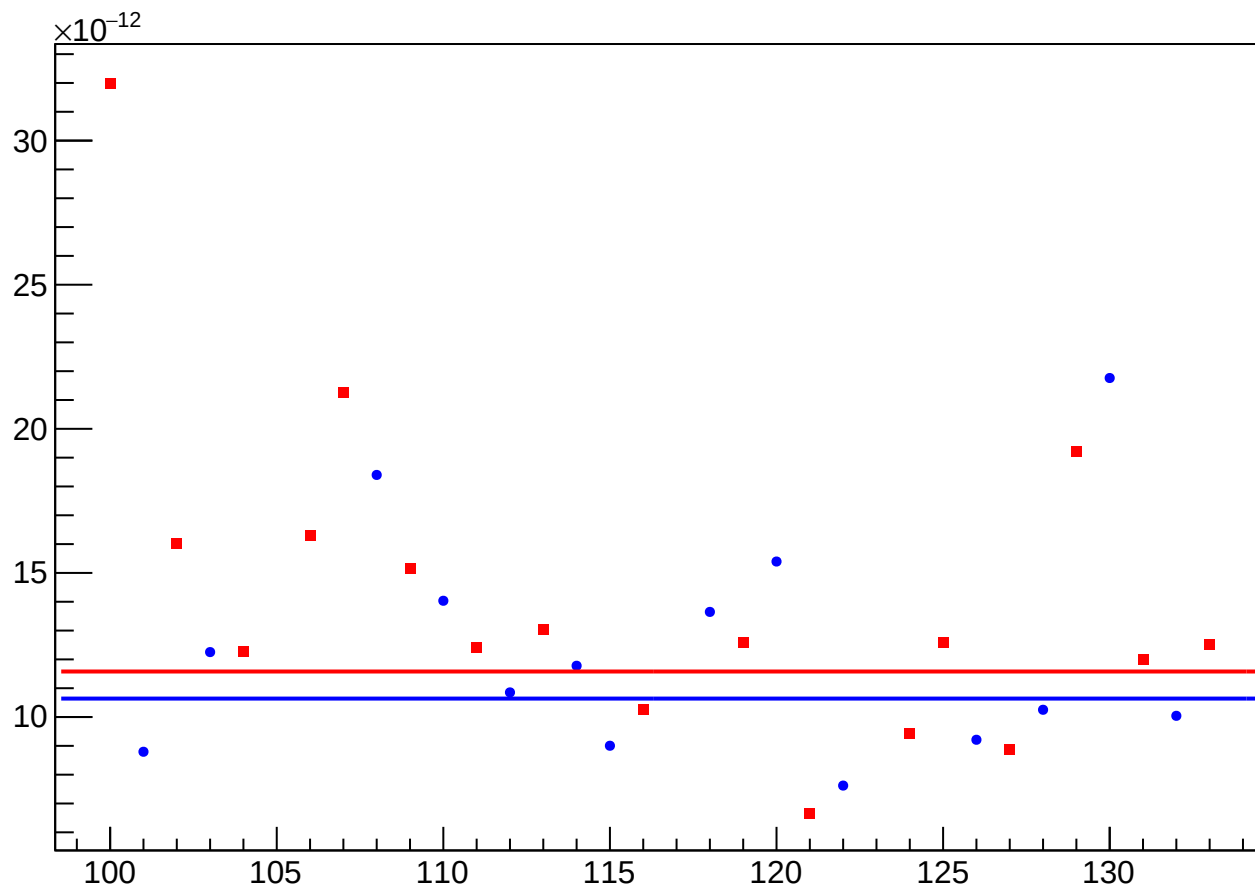
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 31.7/30

- 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  $\chi^2/\text{NDF}$ : 516970.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 707087.4/16

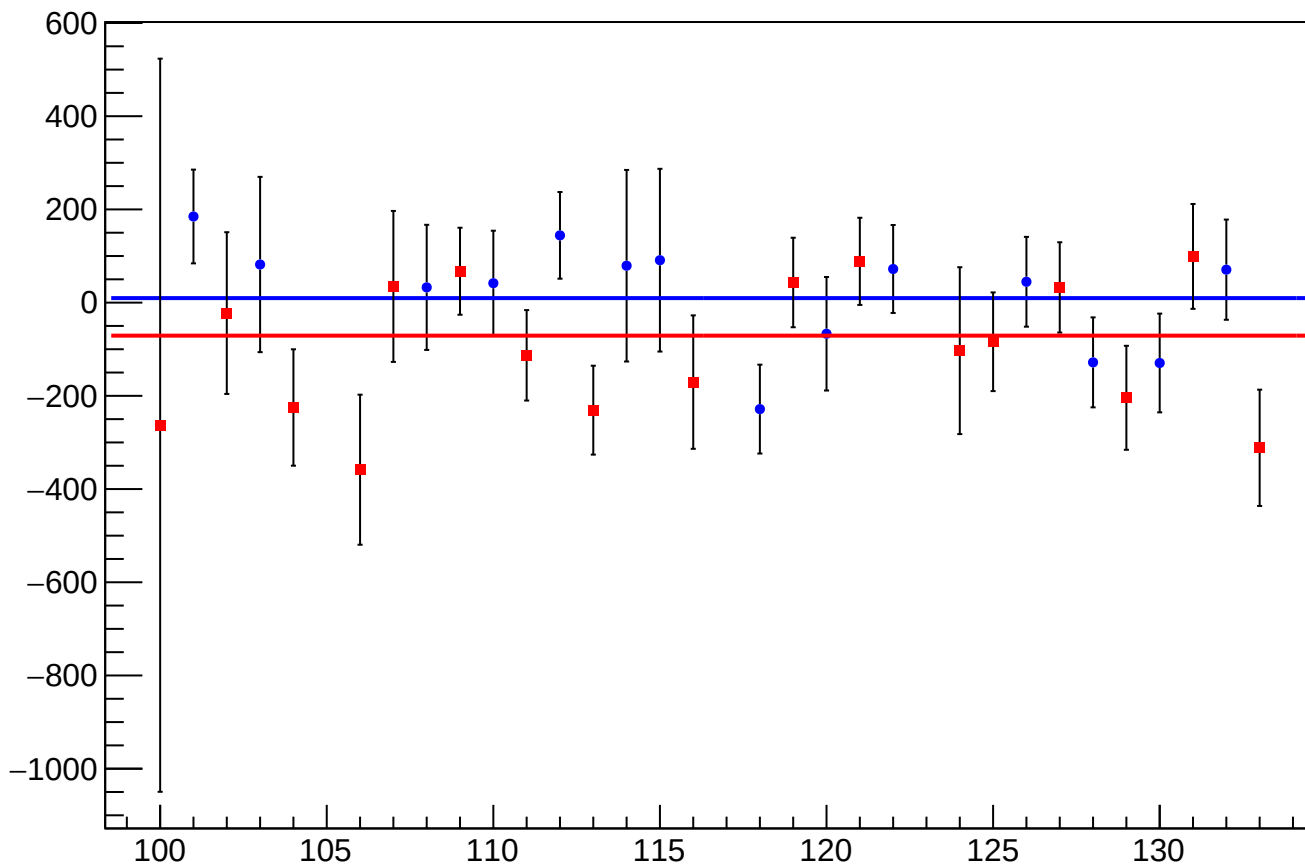
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1250756.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 9.696+/-30.052  $\chi^2/\text{NDF}$ : 17.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -70.860+/-28.526  $\chi^2/\text{NDF}$ : 23.9/16

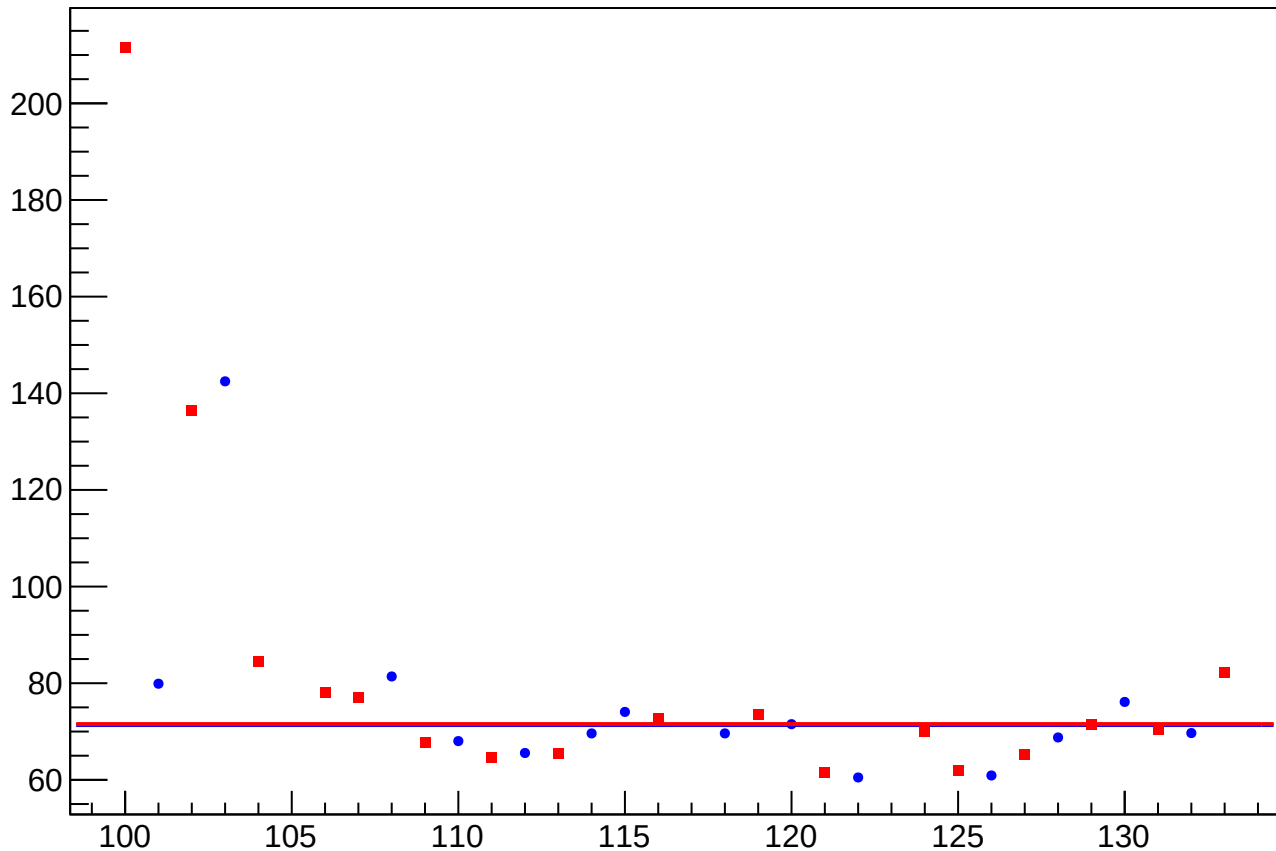
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.679+/-20.689  $\chi^2/\text{NDF}$ : 44.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 71.346+/-0.021  $\chi^2/\text{NDF}$ : 378374.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.546+/-0.020  $\chi^2/\text{NDF}$ : 455529.6/16

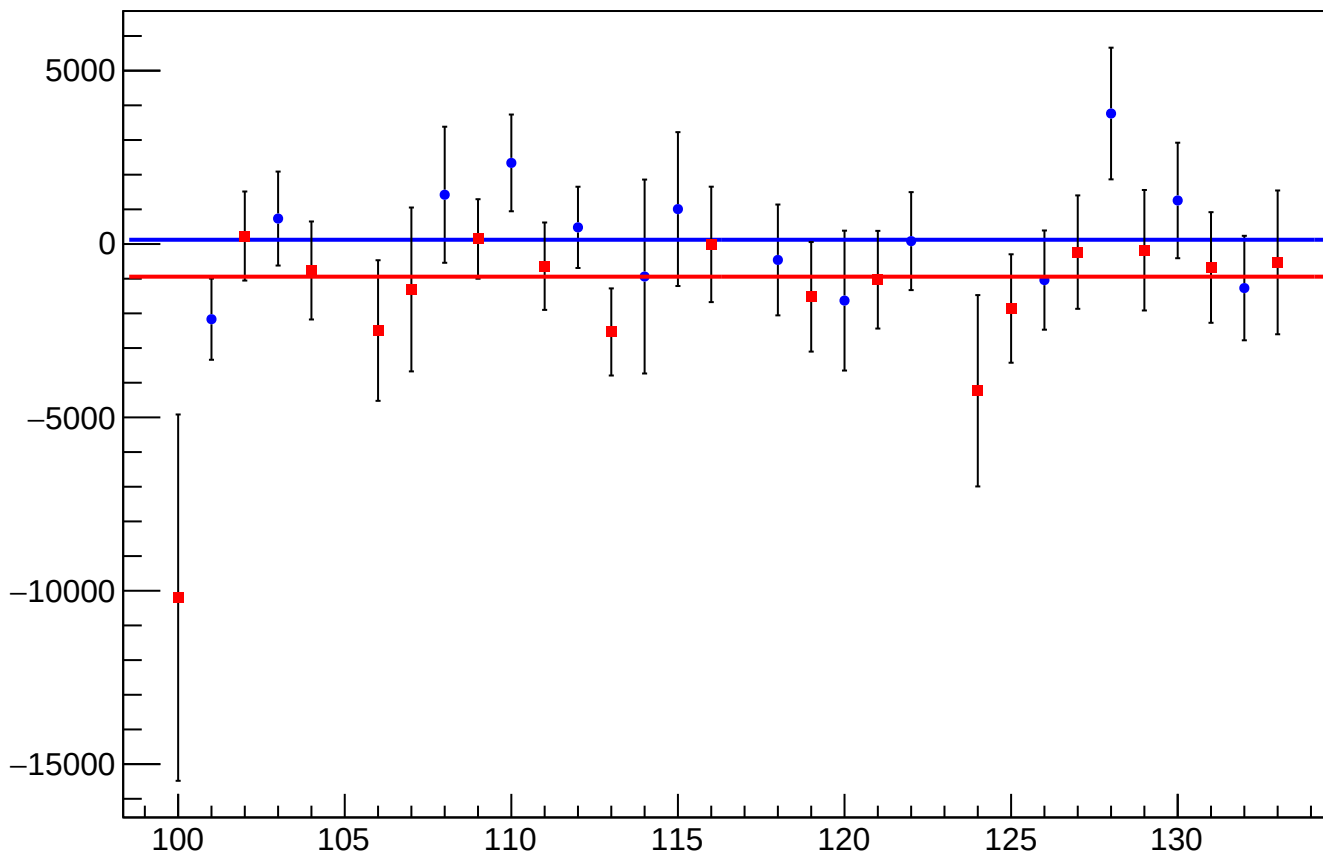
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 71.451+/-0.015  $\chi^2/\text{NDF}$ : 833950.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_reg\_correction\_mean vs Slug



Right In: 123.180+/-414.808  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -941.357+/-385.613  $\chi^2/\text{NDF}$ : 9.8/16

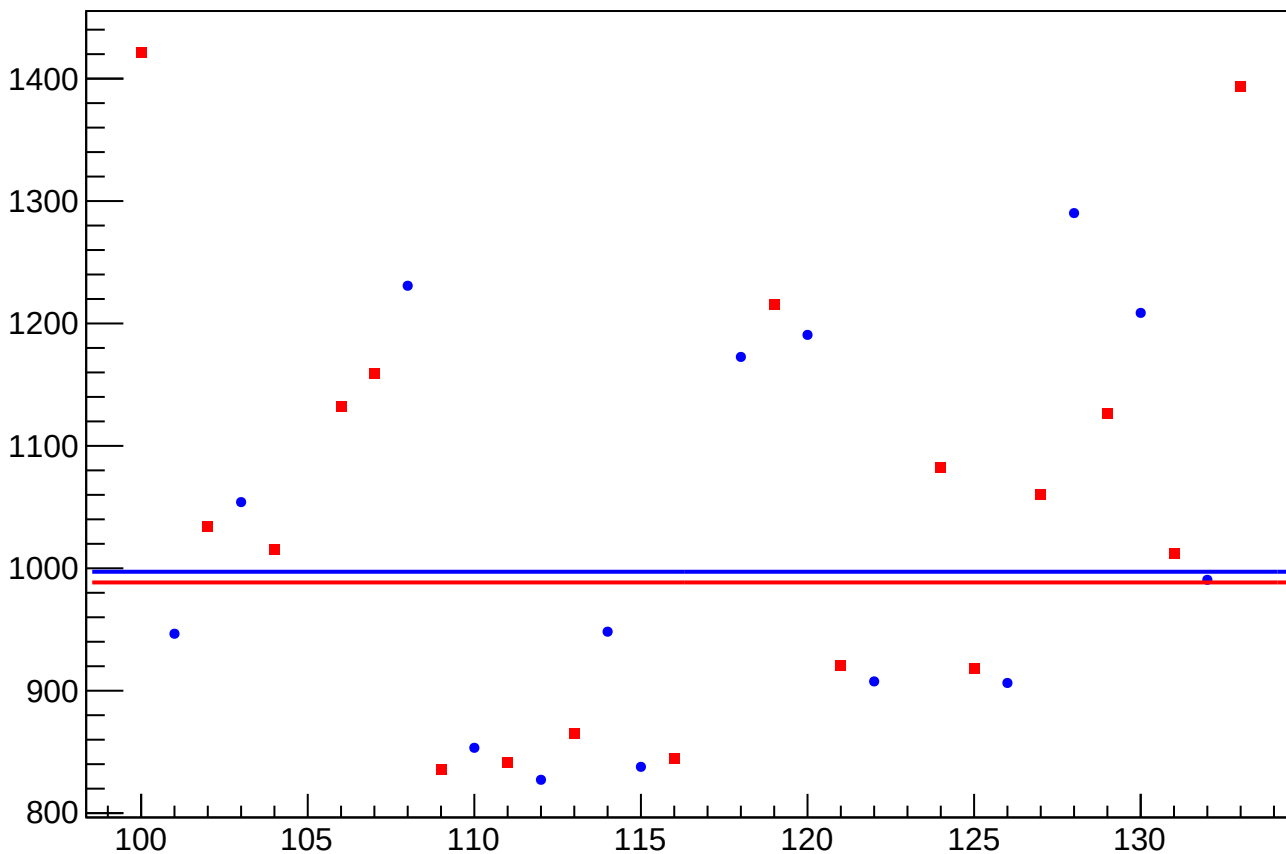
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -447.865+/-282.427  $\chi^2/\text{NDF}$ : 27.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_reg\_correction\_rms vs Slug



Right In: 997.183+/-0.293  $\chi^2/\text{NDF}$ : 248366.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 988.452+/-0.273  $\chi^2/\text{NDF}$ : 279914.1/16

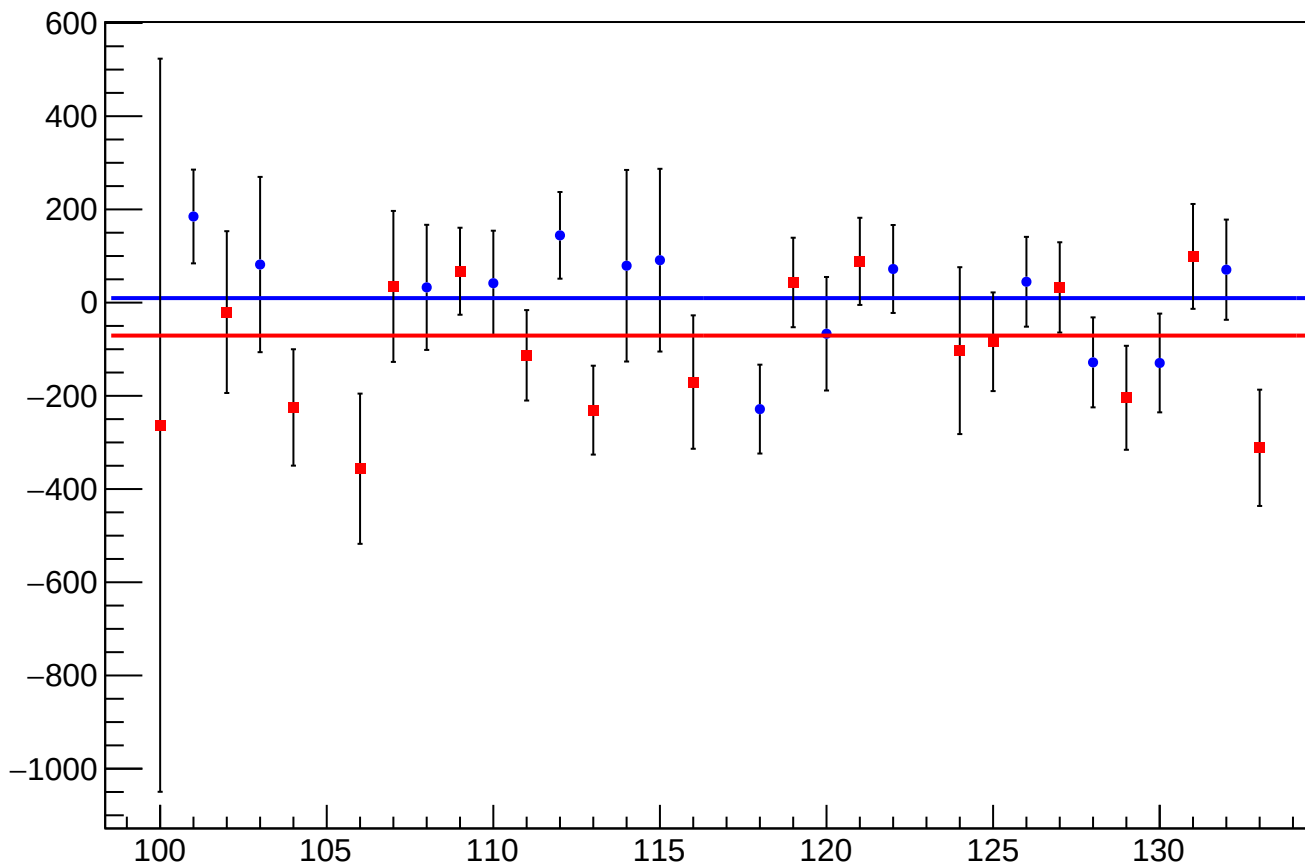
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 992.500+/-0.200  $\chi^2/\text{NDF}$ : 528755.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 9.684+/-30.052  $\chi^2/\text{NDF}$ : 17.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -70.715+/-28.527  $\chi^2/\text{NDF}$ : 23.8/16

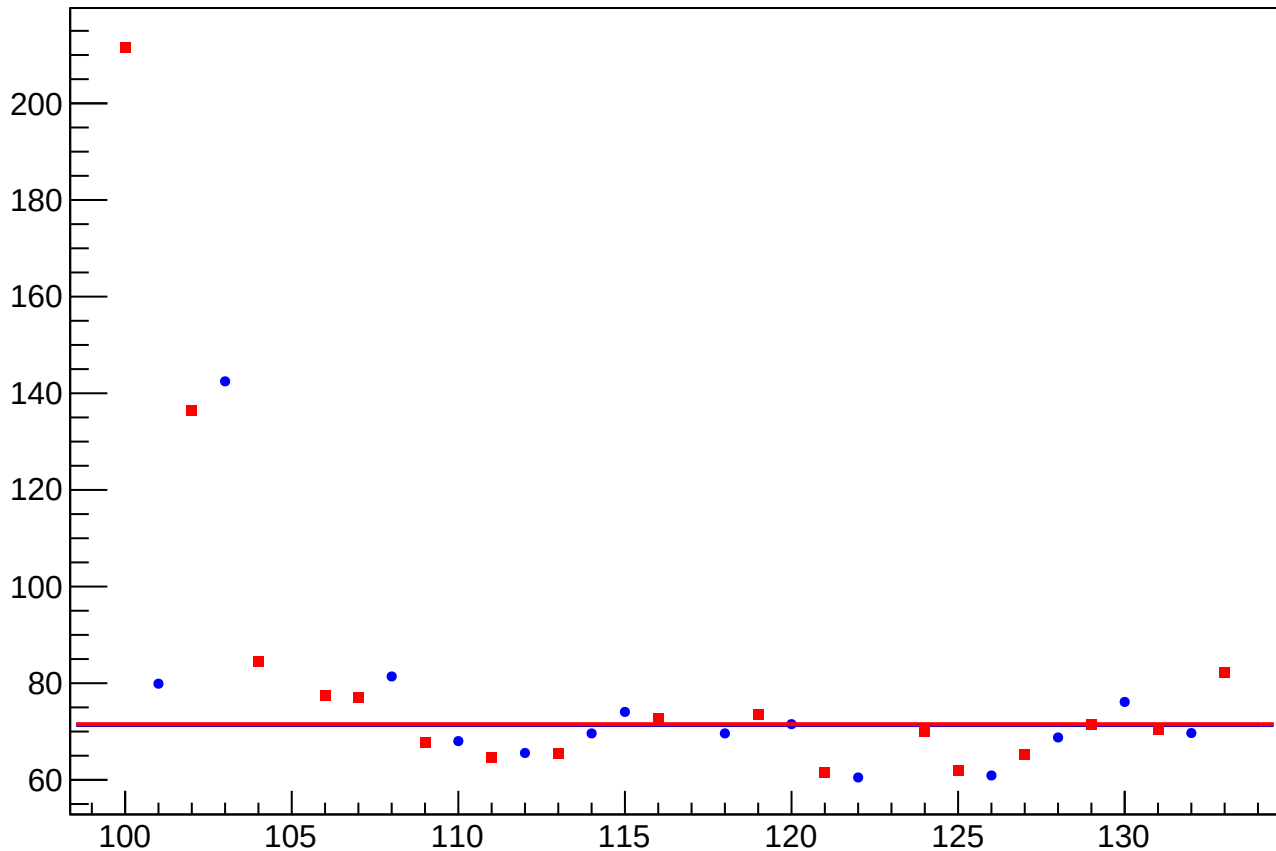
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.607+/-20.690  $\chi^2/\text{NDF}$ : 44.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 71.346+/-0.021  $\chi^2/\text{NDF}$ : 378377.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.524+/-0.020  $\chi^2/\text{NDF}$ : 455126.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

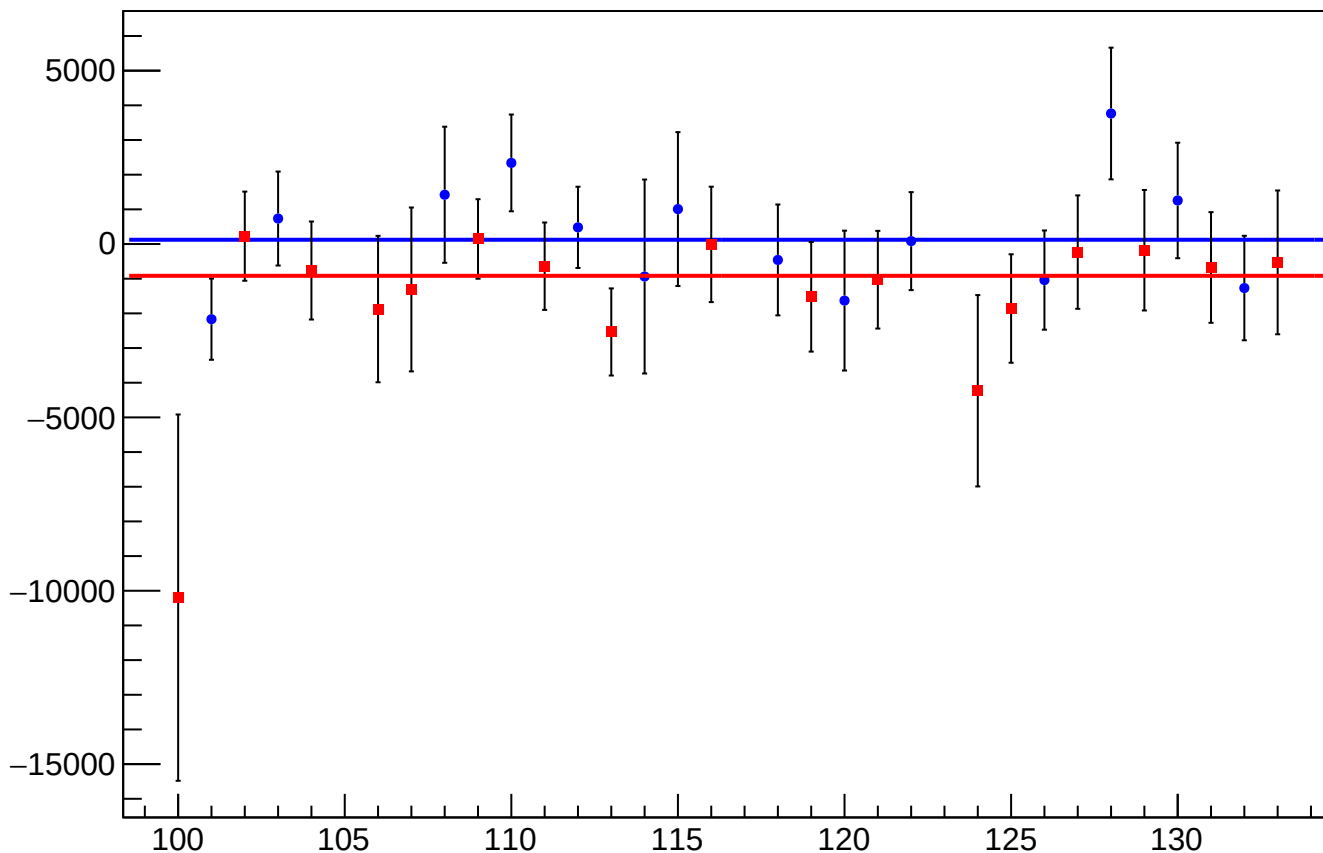
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 71.440+/-0.015  $\chi^2/\text{NDF}$ : 833540.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_12345678\_avg\_cor\_correction\_mean vs Slug



Right In: 123.226 $\pm$ 414.811  $\chi^2$ /NDF: 13.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -916.871 $\pm$ 386.181  $\chi^2$ /NDF: 9.4/16

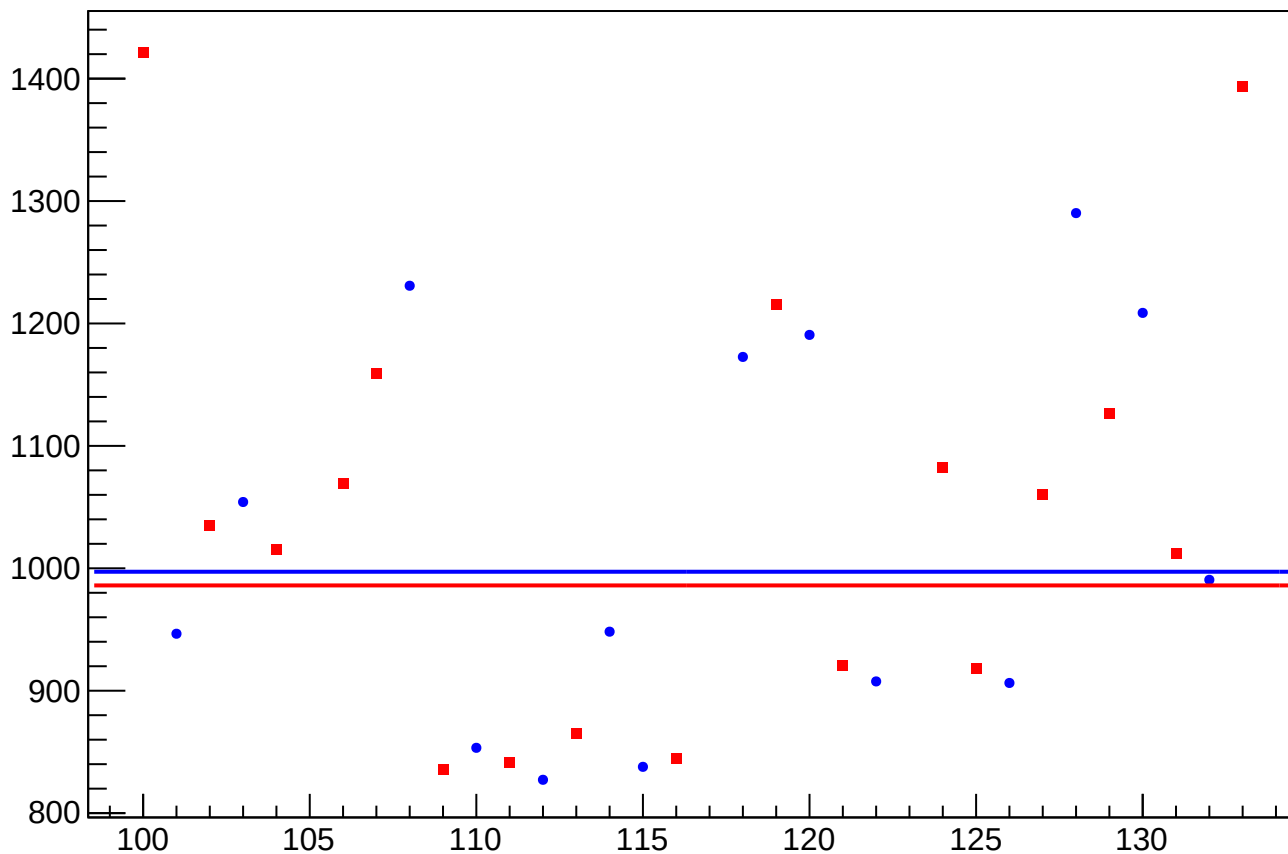
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -433.951 $\pm$ 282.651  $\chi^2$ /NDF: 26.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_cor\_correction\_rms vs Slug



Right In: 997.190+/-0.293  $\chi^2/\text{NDF}$ : 248376.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 986.013+/-0.273  $\chi^2/\text{NDF}$ : 272823.3/16

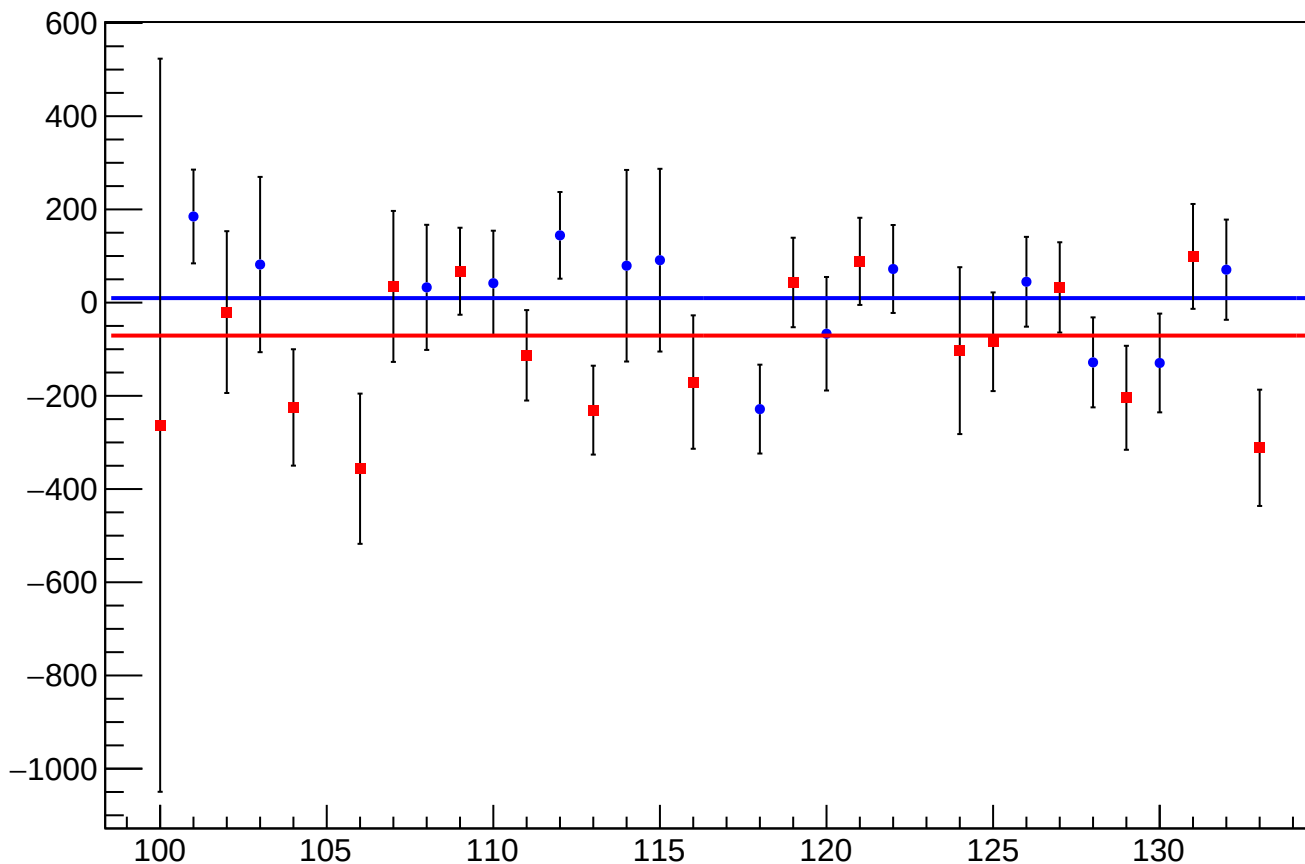
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 991.202+/-0.200  $\chi^2/\text{NDF}$ : 521977.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_cor\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 9.684+/-30.052  $\chi^2$ /NDF: 17.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -70.715+/-28.527  $\chi^2$ /NDF: 23.8/16

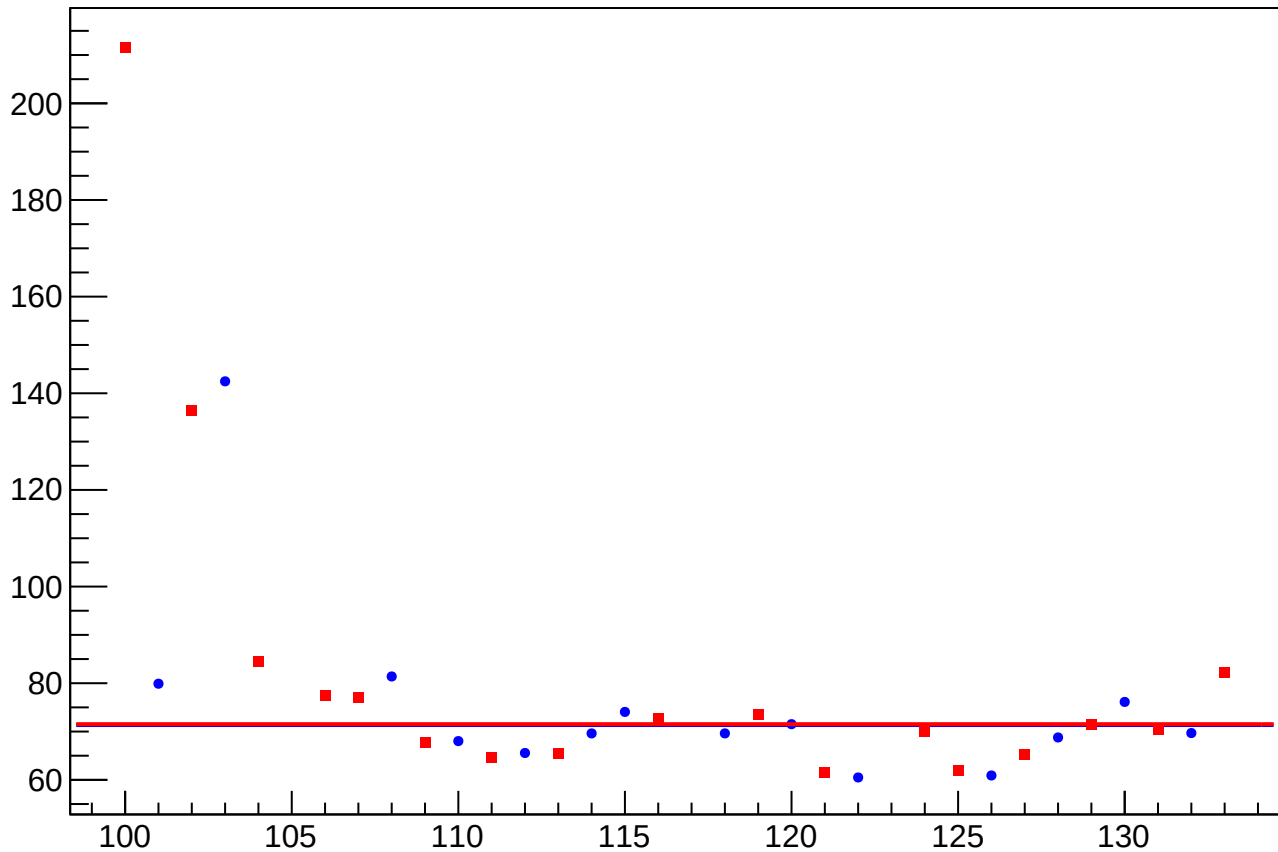
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -32.607+/-20.690  $\chi^2$ /NDF: 44.6/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

eigen\_cor\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 71.346 $\pm$ 0.021  $\chi^2$ /NDF: 378377.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 71.524 $\pm$ 0.020  $\chi^2$ /NDF: 455126.8/16

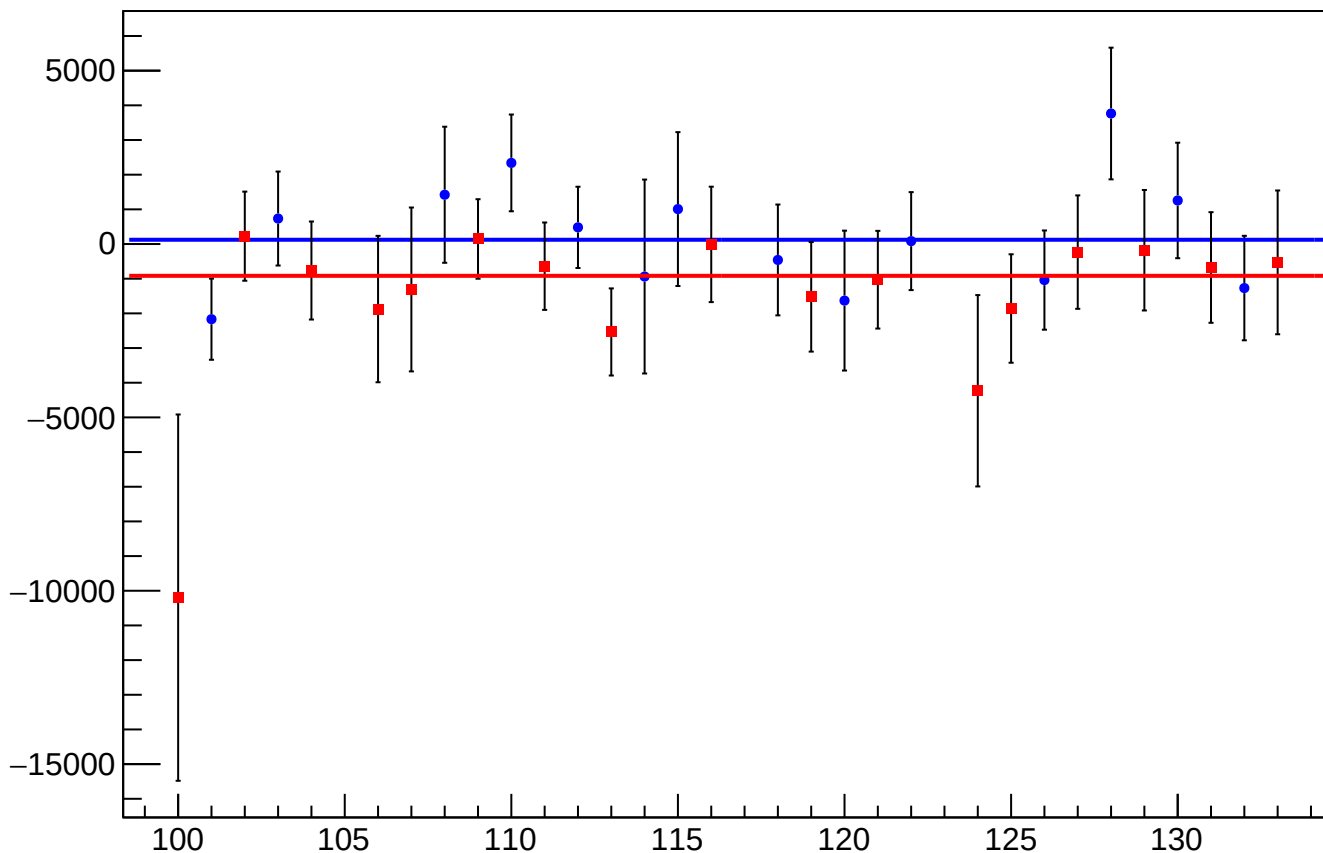
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 71.440 $\pm$ 0.015  $\chi^2$ /NDF: 833540.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_eigen\_cor\_correction\_mean vs Slug



Right In: 123.226+/-414.811  $\chi^2/\text{NDF}$ : 13.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -916.871+/-386.181  $\chi^2/\text{NDF}$ : 9.4/16

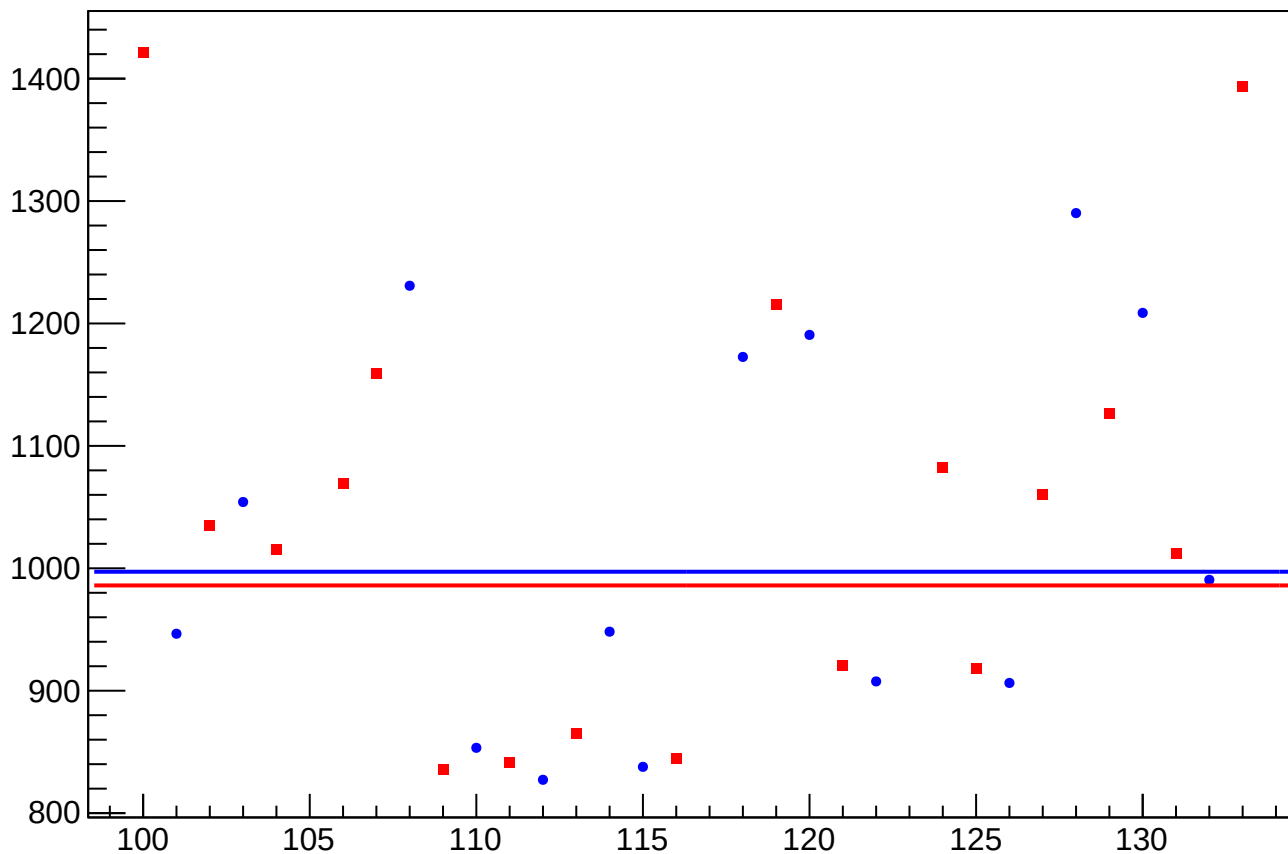
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -433.951+/-282.651  $\chi^2/\text{NDF}$ : 26.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_eigen\_cor\_correction\_rms vs Slug



Right In: 997.190 $\pm$ 0.293  $\chi^2$ /NDF: 248376.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 986.013 $\pm$ 0.273  $\chi^2$ /NDF: 272823.3/16

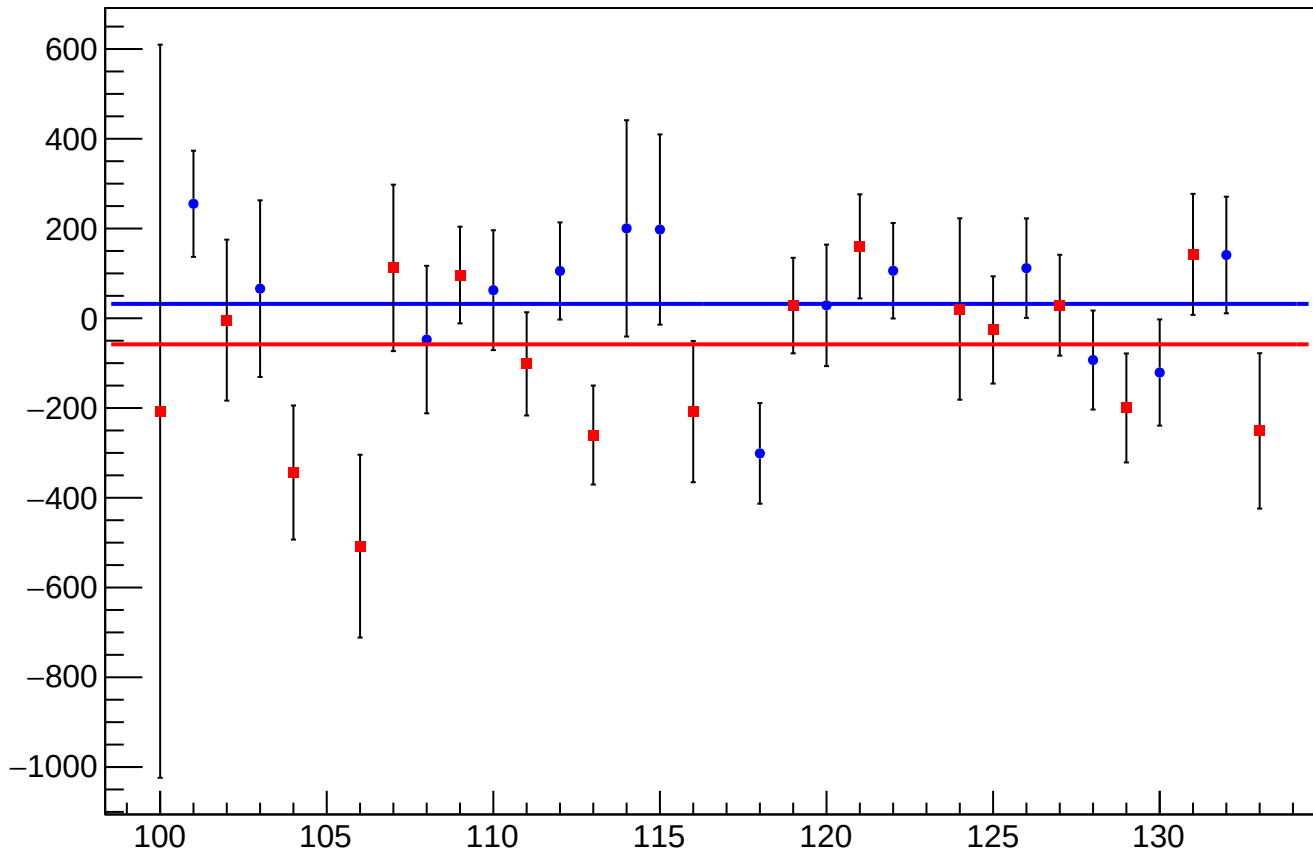
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 991.202 $\pm$ 0.200  $\chi^2$ /NDF: 521977.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 32.053+/-34.672  $\chi^2/\text{NDF}$ : 18.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -58.051+/-33.202  $\chi^2/\text{NDF}$ : 25.8/16

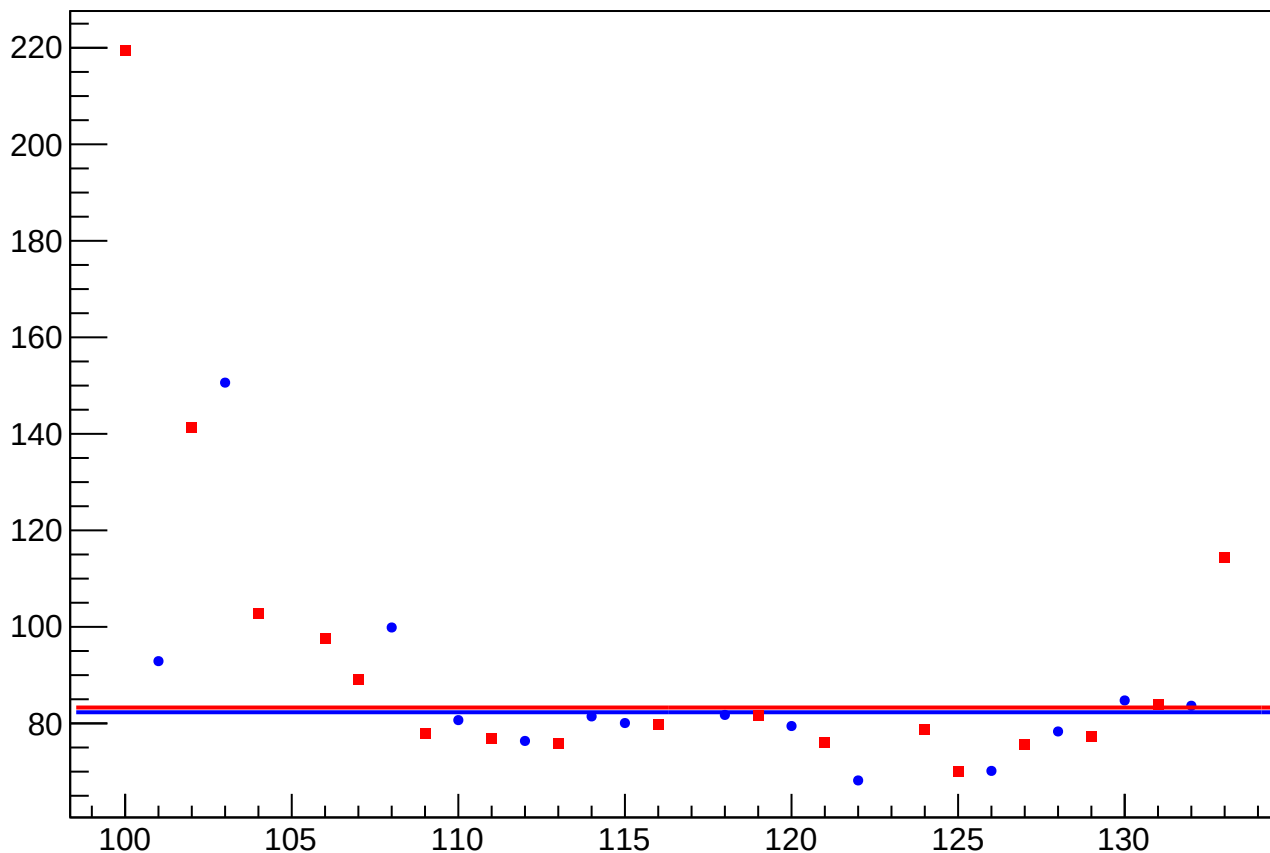
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.950+/-23.980  $\chi^2/\text{NDF}$ : 48.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 82.306+/-0.025  $\chi^2/\text{NDF}$ : 350261.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 83.289+/-0.023  $\chi^2/\text{NDF}$ : 444716.3/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

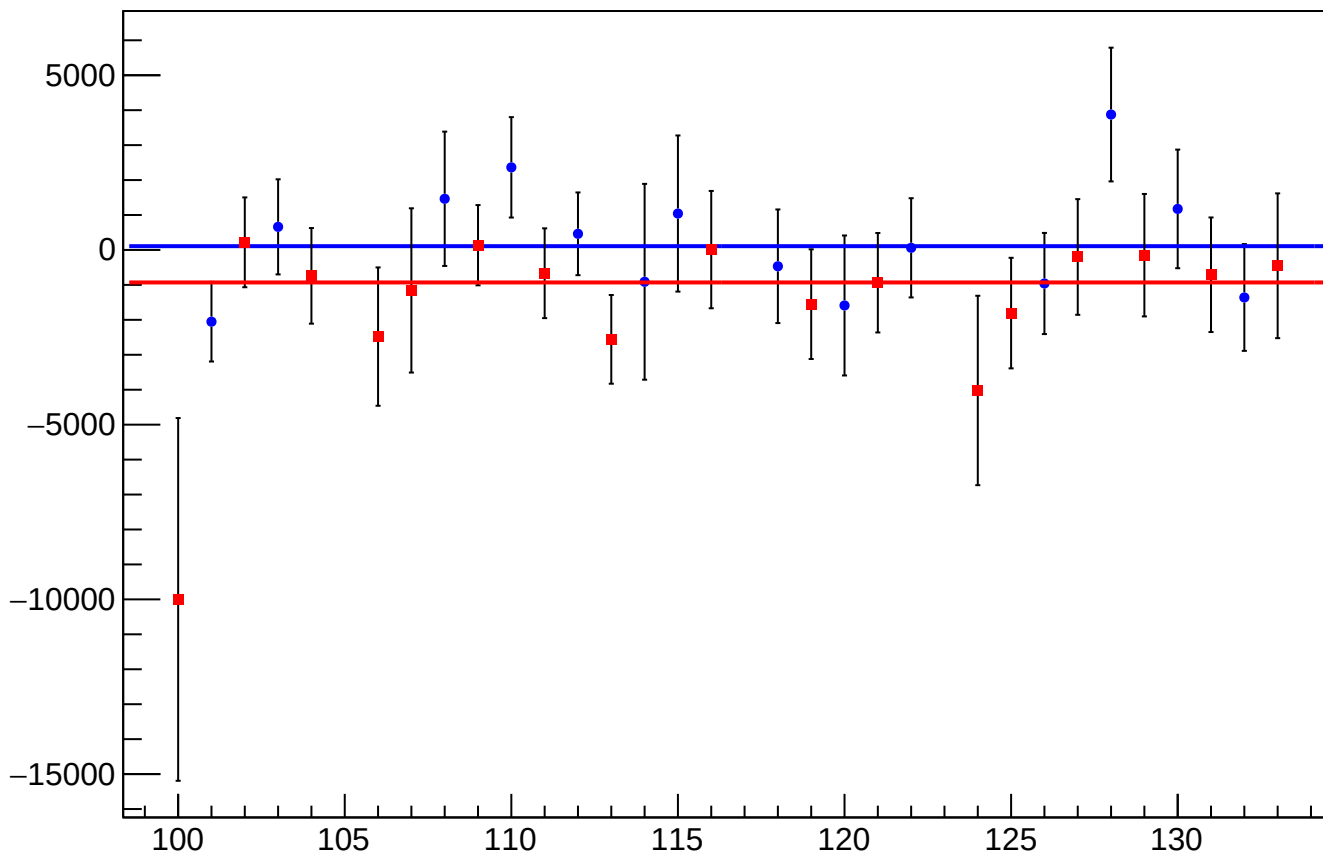
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 82.818+/-0.017  $\chi^2/\text{NDF}$ : 795816.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_sam\_12345678\_avg\_dit\_correction\_mean vs Slug



Right In: 107.942 $\pm$ 416.796  $\chi^2$ /NDF: 13.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -930.048 $\pm$ 386.800  $\chi^2$ /NDF: 9.6/16

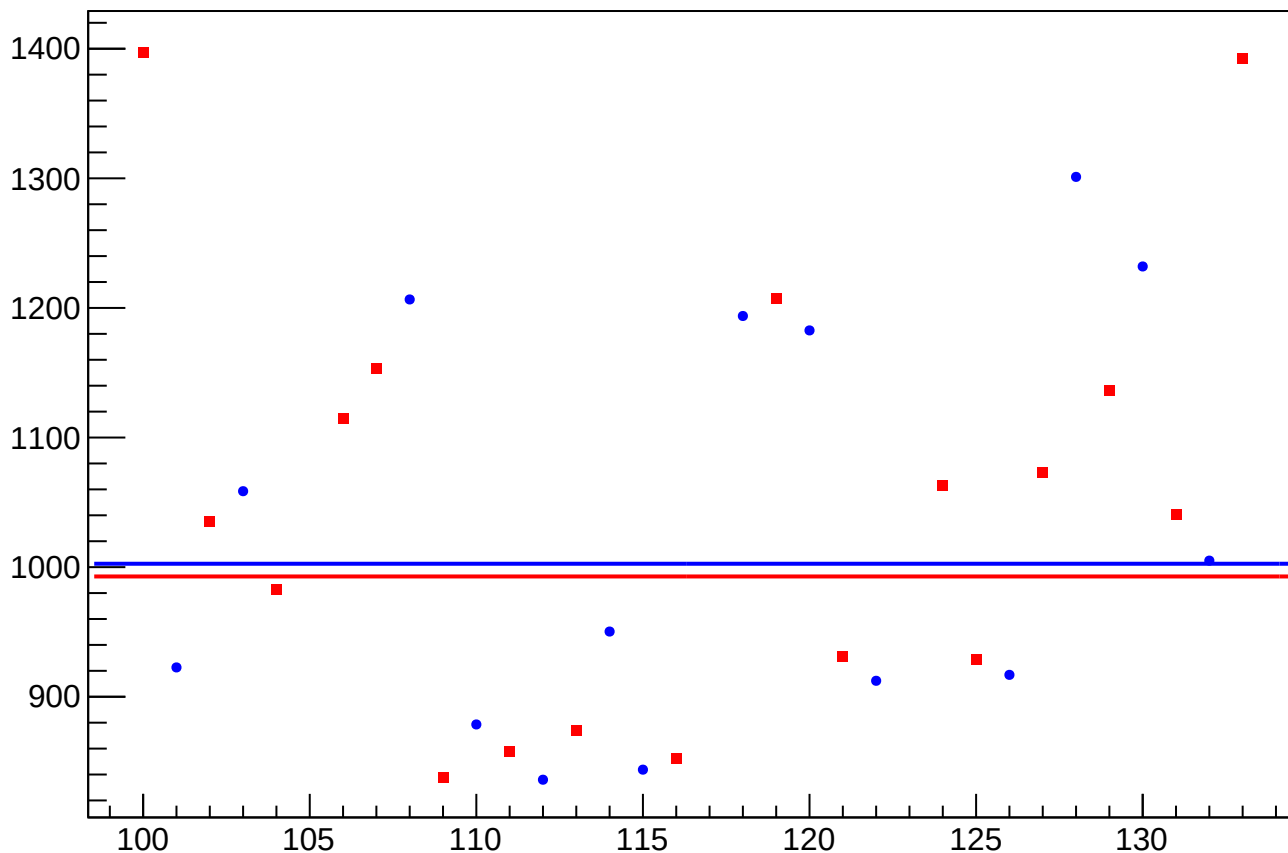
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -449.746 $\pm$ 283.521  $\chi^2$ /NDF: 26.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_dit\_correction\_rms vs Slug



Right In: 1002.623+/-0.295  $\chi^2/\text{NDF}$ : 245215.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 992.815+/-0.274  $\chi^2/\text{NDF}$ : 261370.3/16

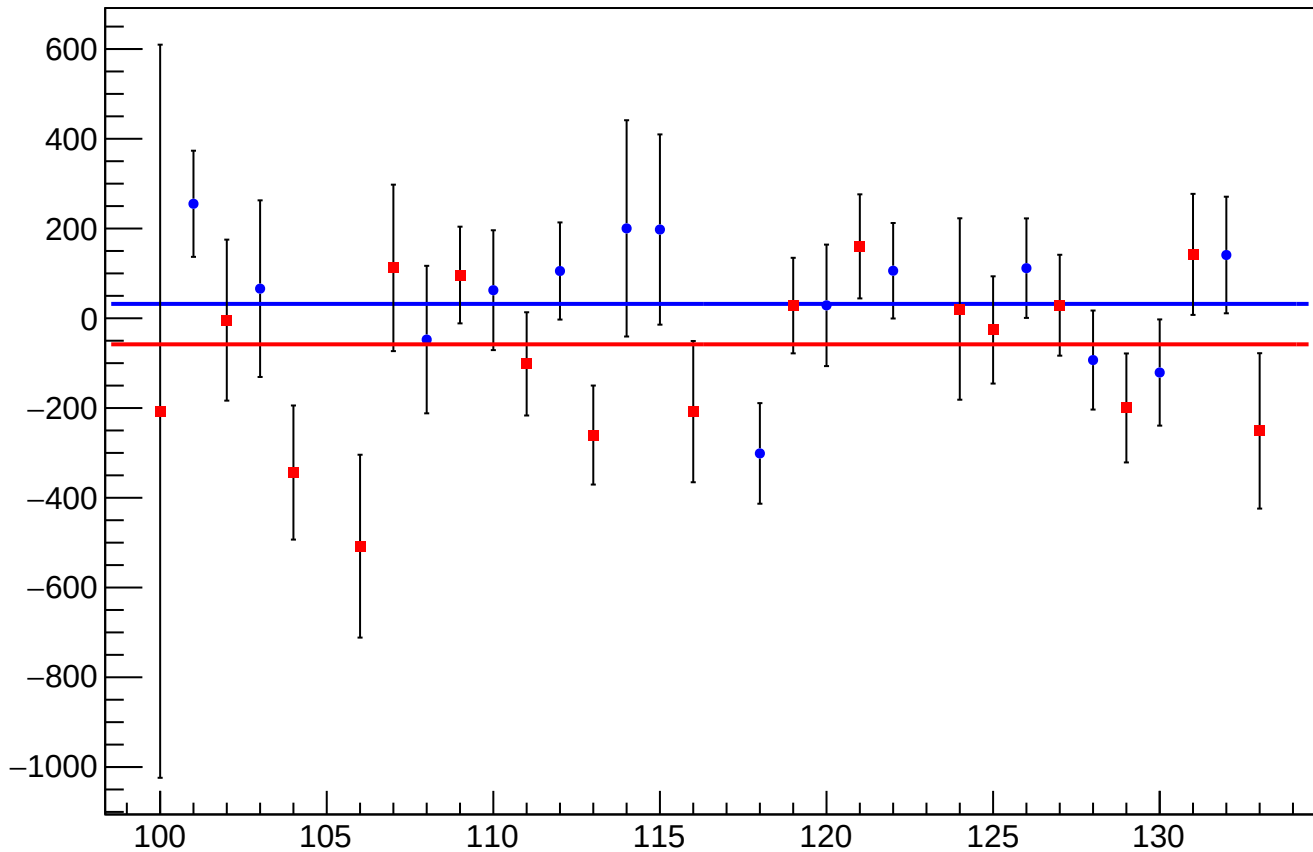
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 997.353+/-0.200  $\chi^2/\text{NDF}$ : 507181.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 32.051+/-34.671  $\chi^2/\text{NDF}$ : 18.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -58.049+/-33.201  $\chi^2/\text{NDF}$ : 25.8/16

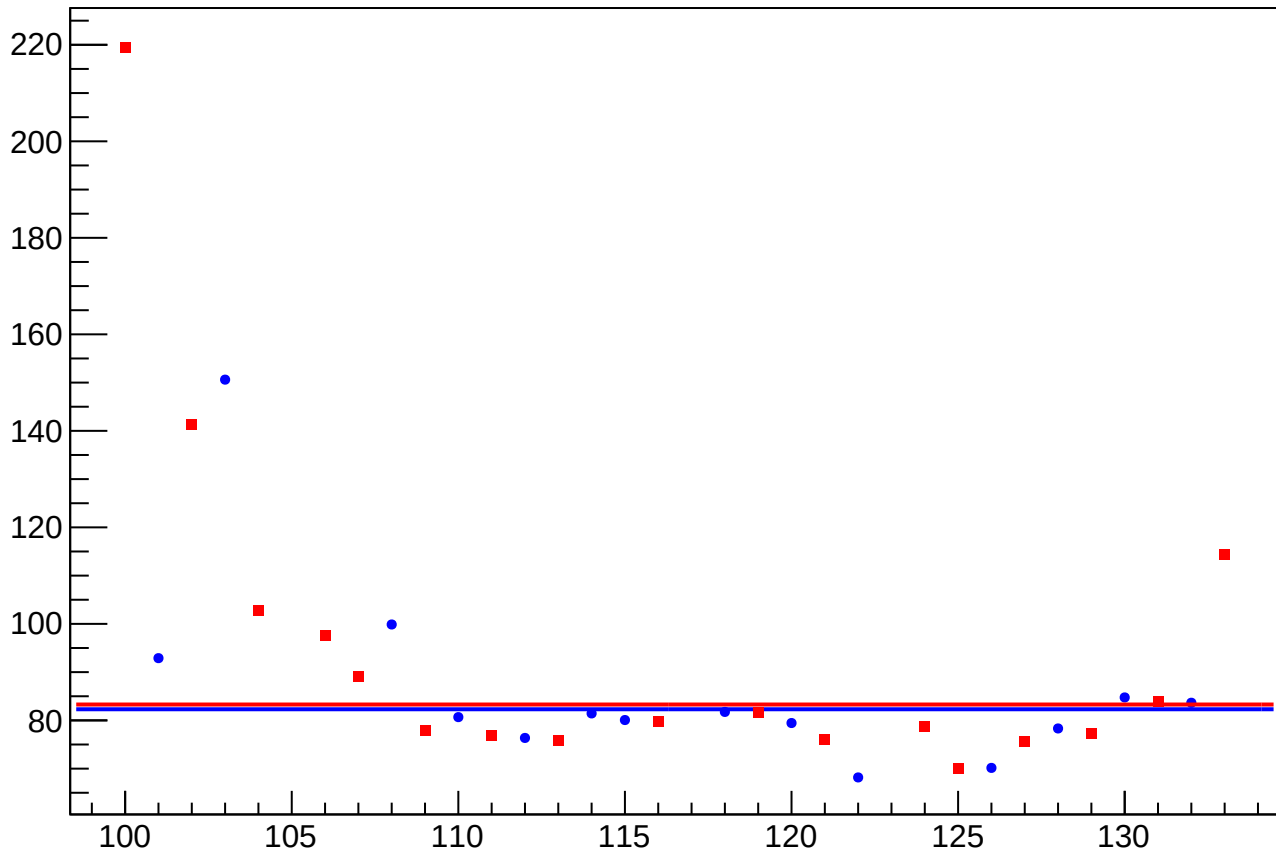
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.949+/-23.980  $\chi^2/\text{NDF}$ : 48.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

eigen\_dit\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 82.305+/-0.025  $\chi^2/\text{NDF}$ : 350263.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 83.288+/-0.023  $\chi^2/\text{NDF}$ : 444728.6/16

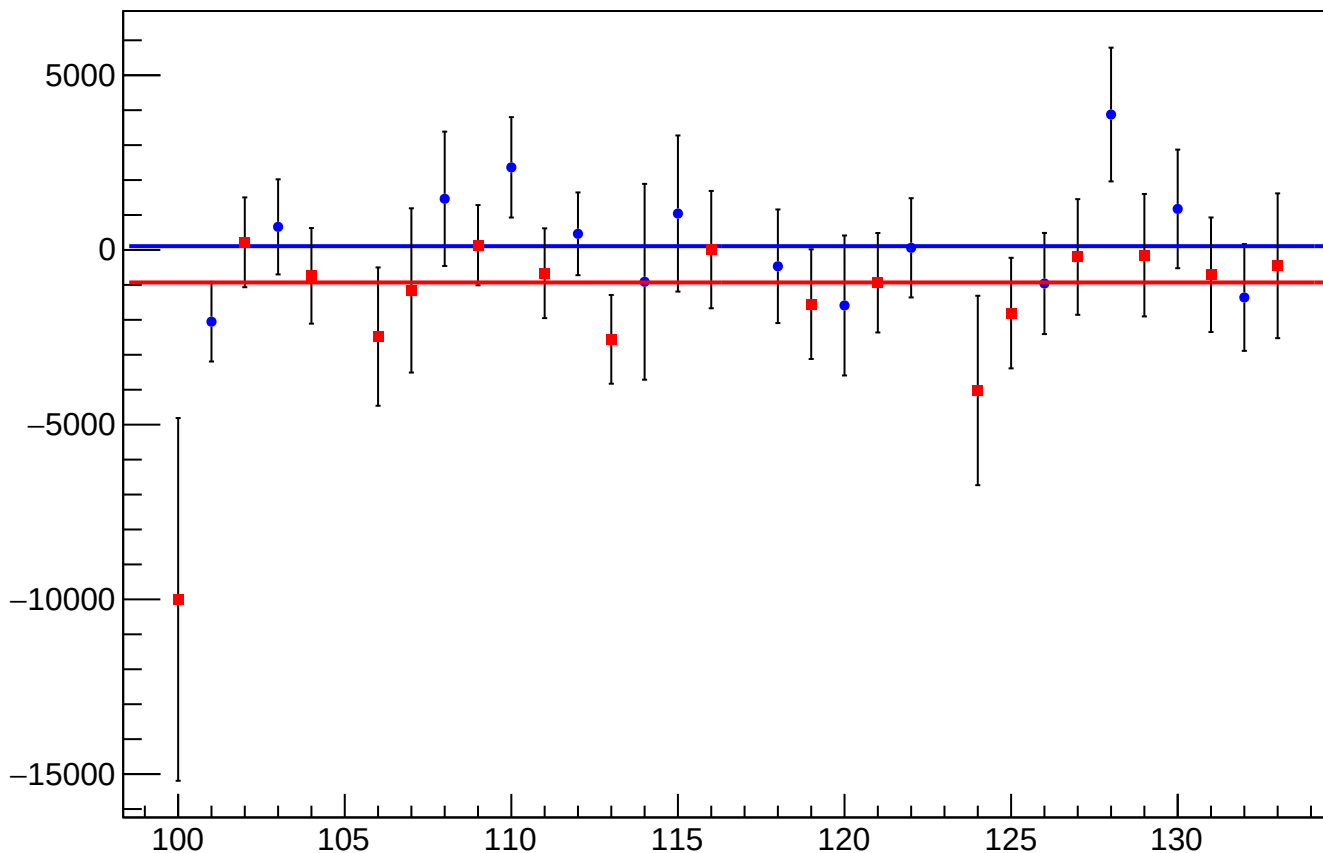
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 82.818+/-0.017  $\chi^2/\text{NDF}$ : 795830.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_correction\_mean vs Slug



Right In: 107.943+/-416.795  $\chi^2/\text{NDF}$ : 13.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -930.046+/-386.799  $\chi^2/\text{NDF}$ : 9.6/16

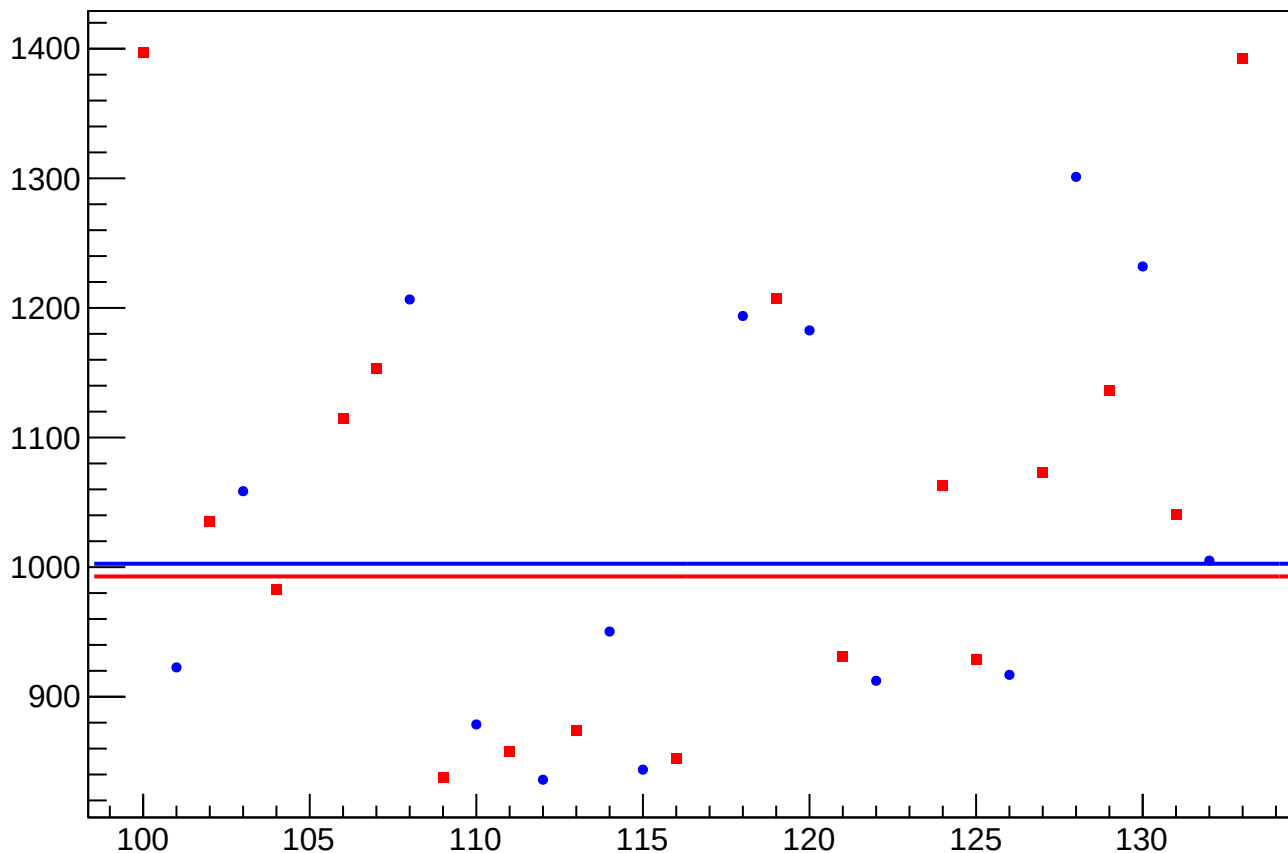
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -449.744+/-283.520  $\chi^2/\text{NDF}$ : 26.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_correction\_rms vs Slug



Right In:  $1002.621 \pm 0.295$   $\chi^2/\text{NDF}$ : 245218.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $992.812 \pm 0.274$   $\chi^2/\text{NDF}$ : 261373.3/16

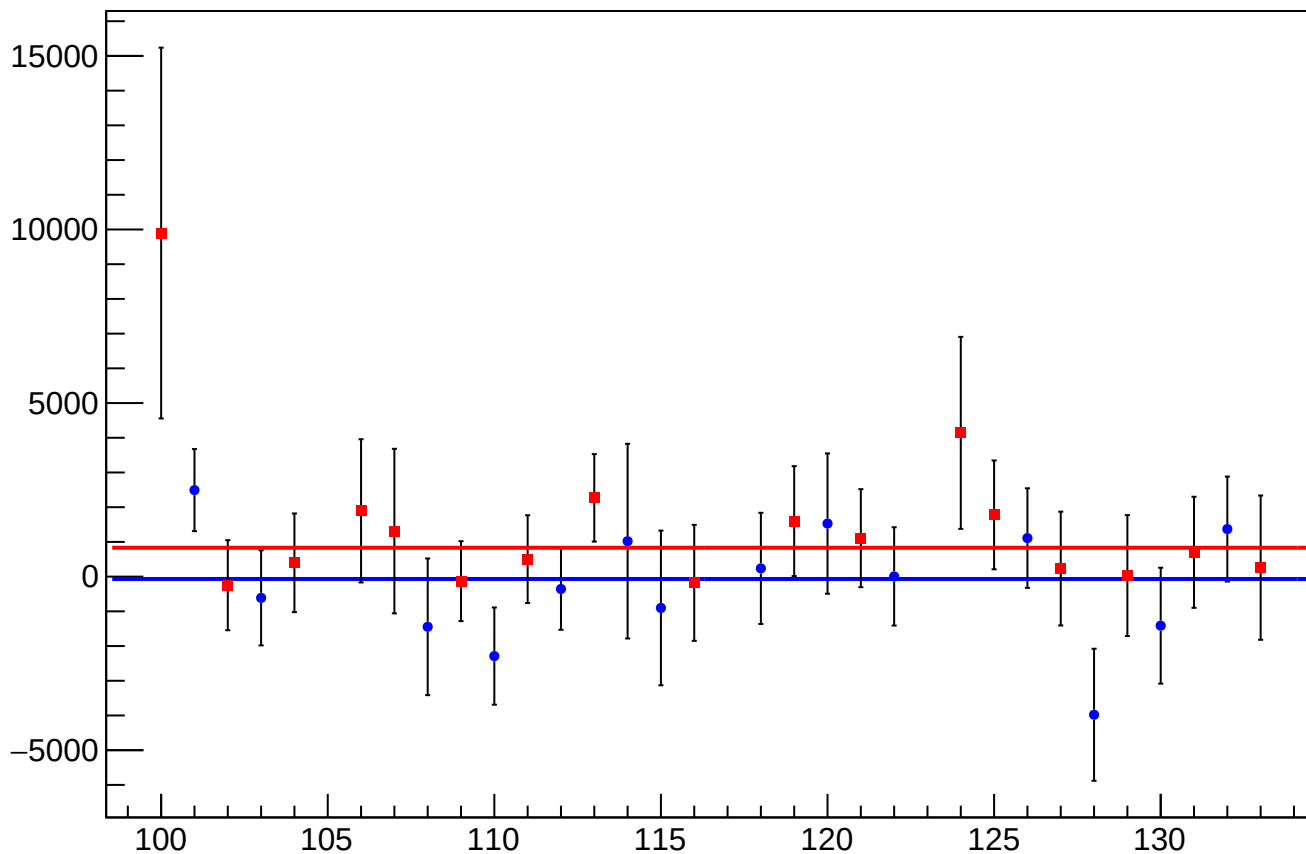
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $997.351 \pm 0.200$   $\chi^2/\text{NDF}$ : 507186.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_12345678\_avg\_mean vs Slug



Right In:  $-67.976 \pm 416.632$   $\chi^2/\text{NDF}: 15.3/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $831.847 \pm 387.272$   $\chi^2/\text{NDF}: 8.9/16$

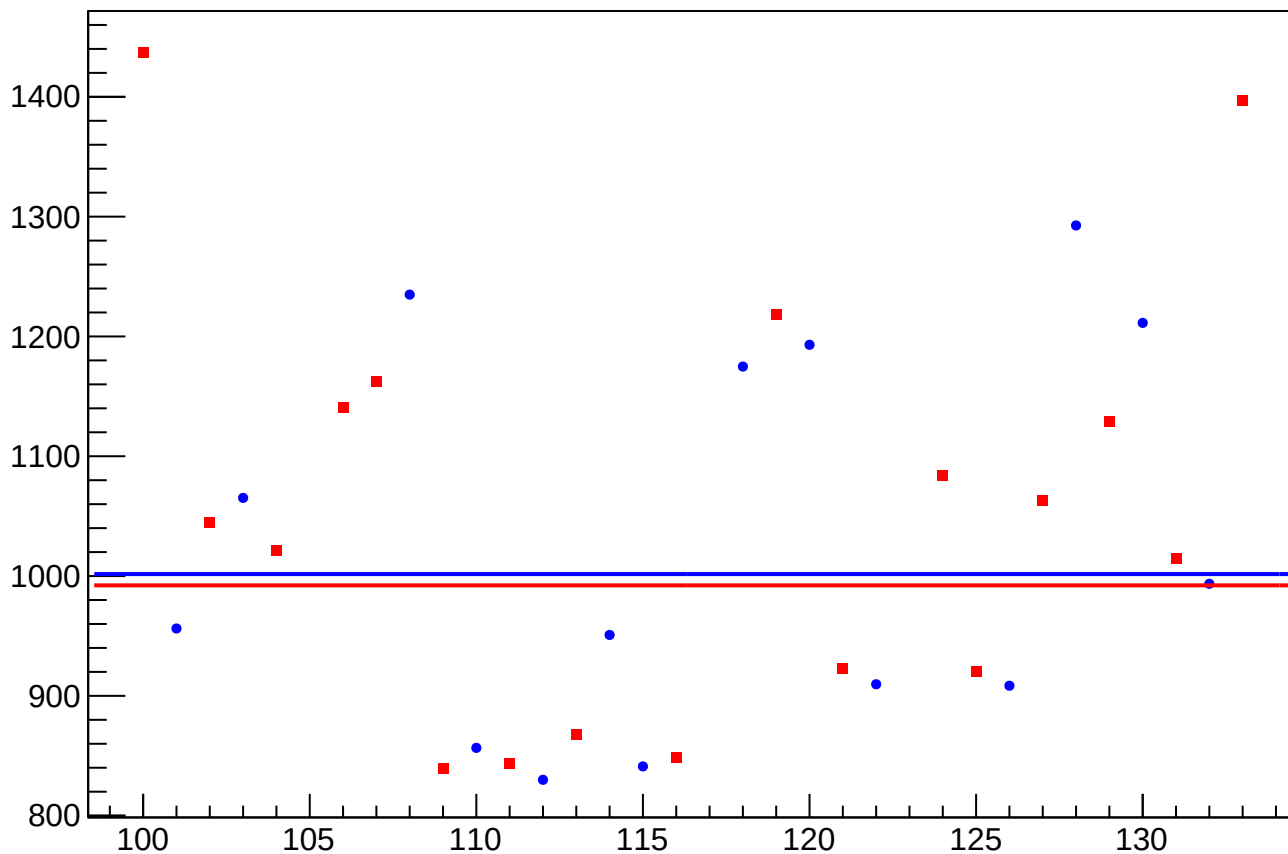
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $414.754 \pm 283.655$   $\chi^2/\text{NDF}: 26.7/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 1001.634+/-0.295  $\chi^2/\text{NDF}$ : 247142.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 992.235+/-0.274  $\chi^2/\text{NDF}$ : 280266.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

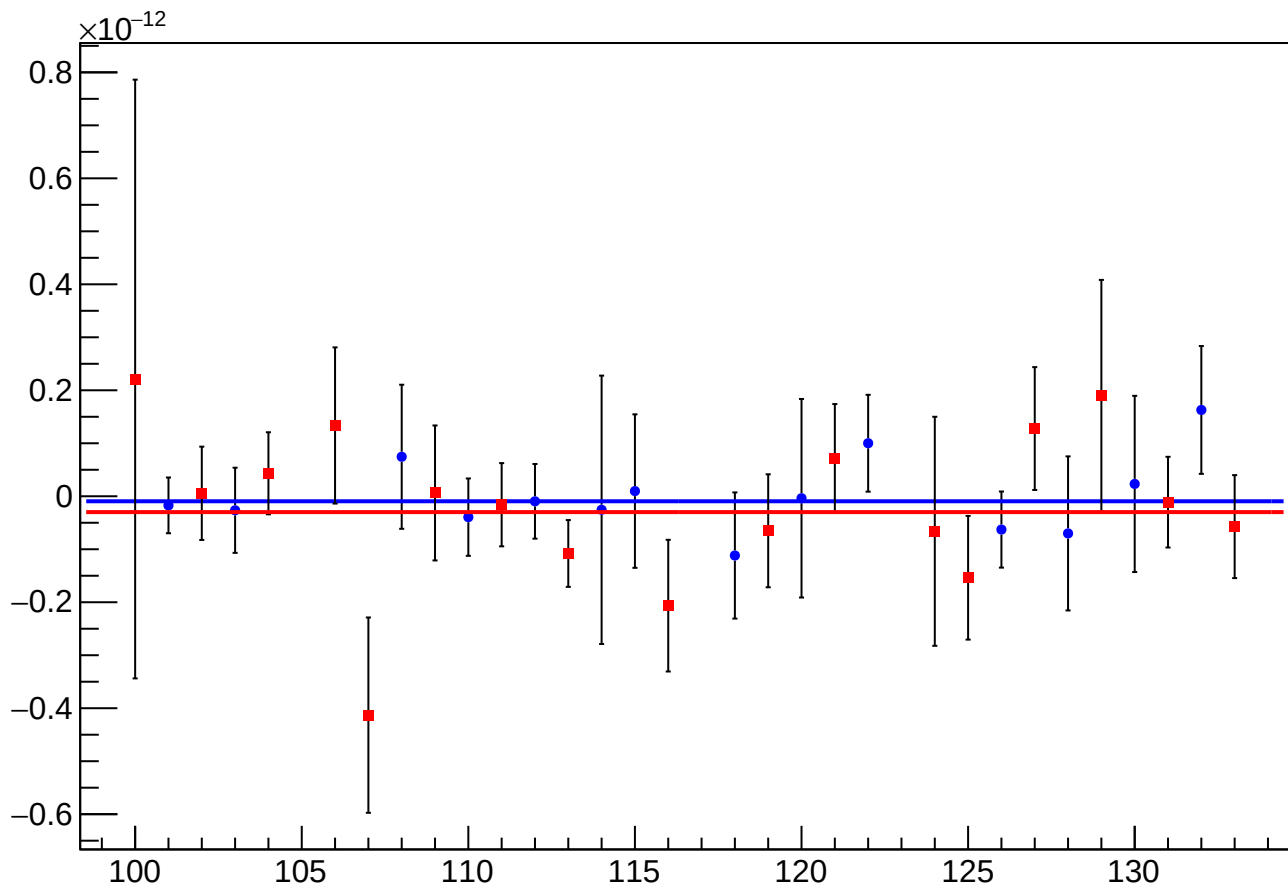
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 996.592+/-0.201  $\chi^2/\text{NDF}$ : 527955.3/30

- 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  $\chi^2/\text{NDF}$ : 5.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 15.7/16

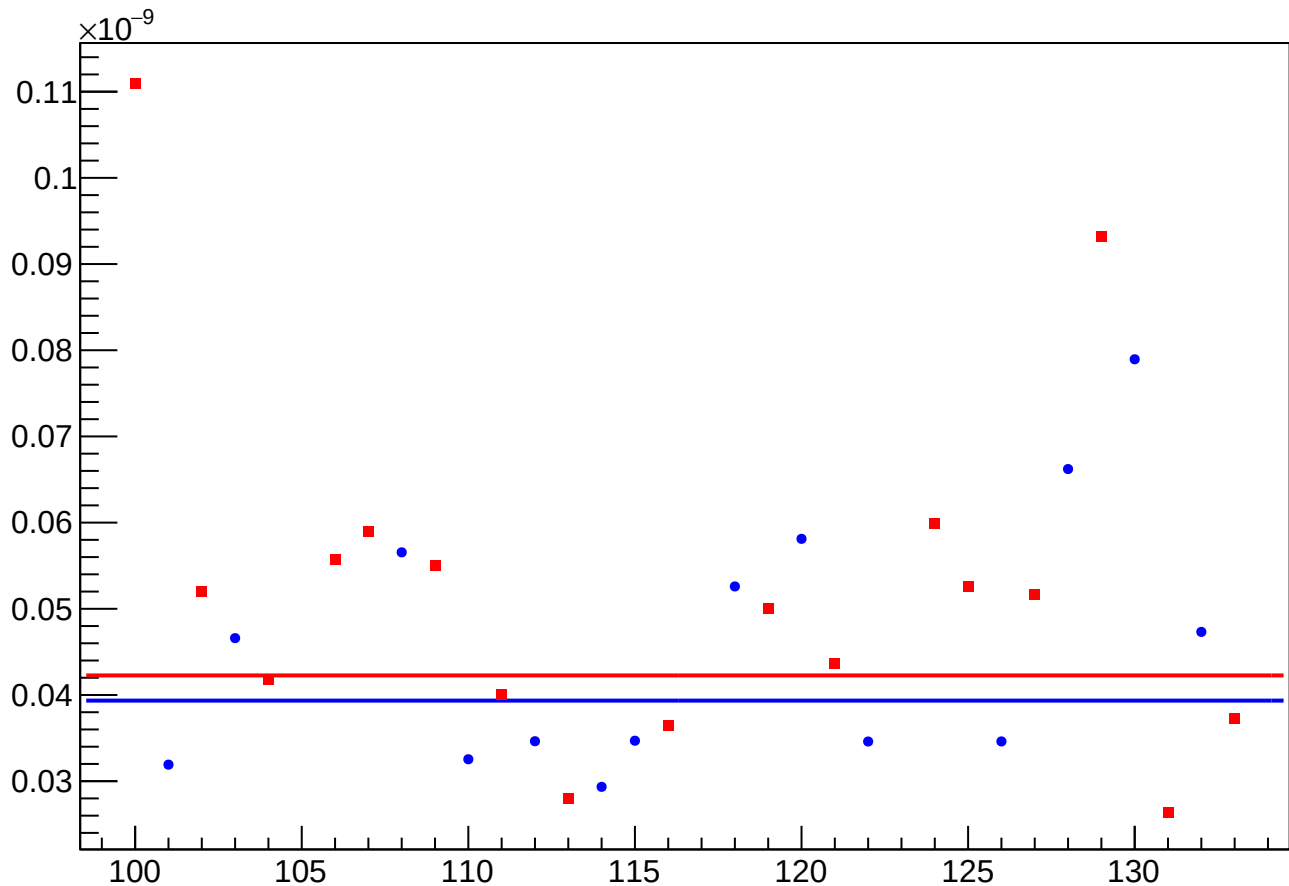
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 21.7/30

- 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  $\chi^2/\text{NDF}$ : 369163.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 451800.5/16

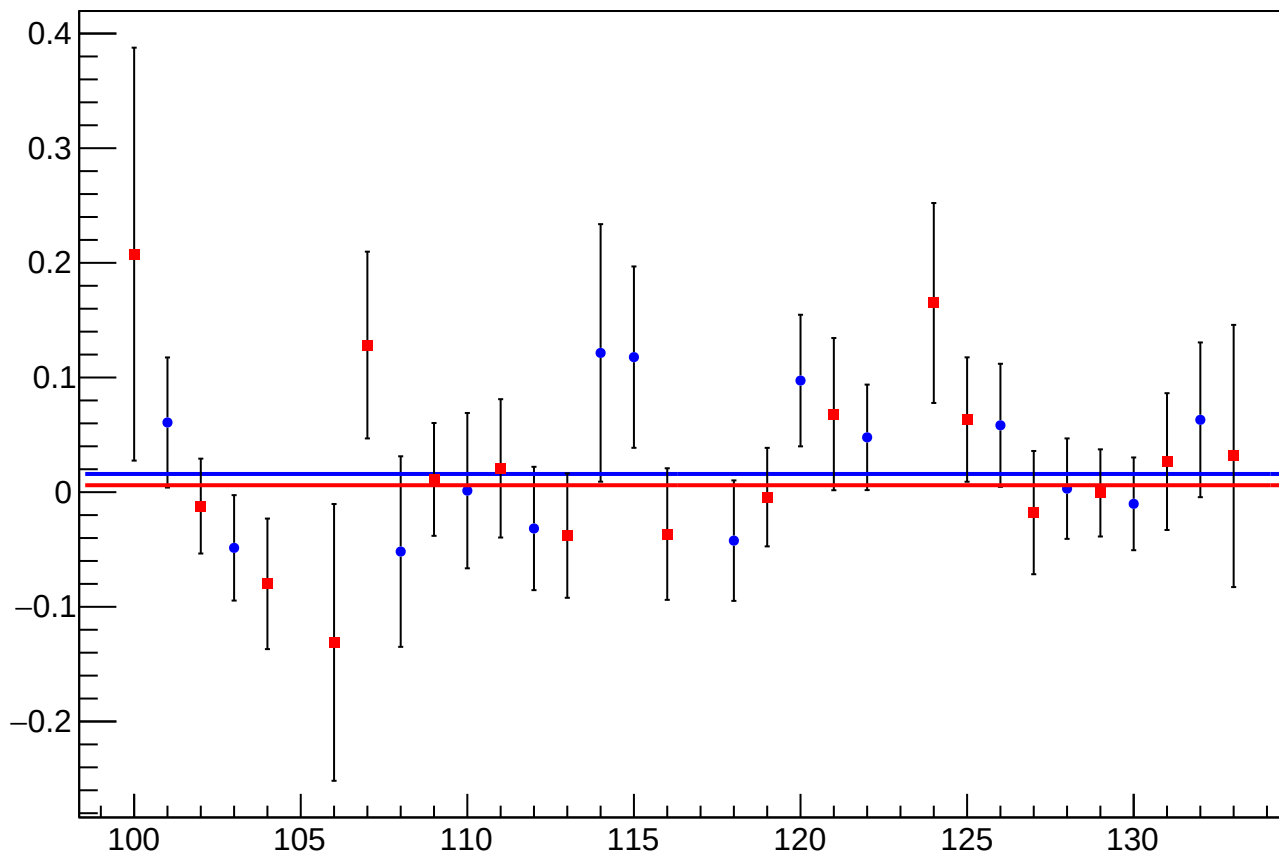
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 834266.7/30

- 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: 0.016 $\pm$ 0.015  $\chi^2$ /NDF: 12.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.006 $\pm$ 0.014  $\chi^2$ /NDF: 14.3/16

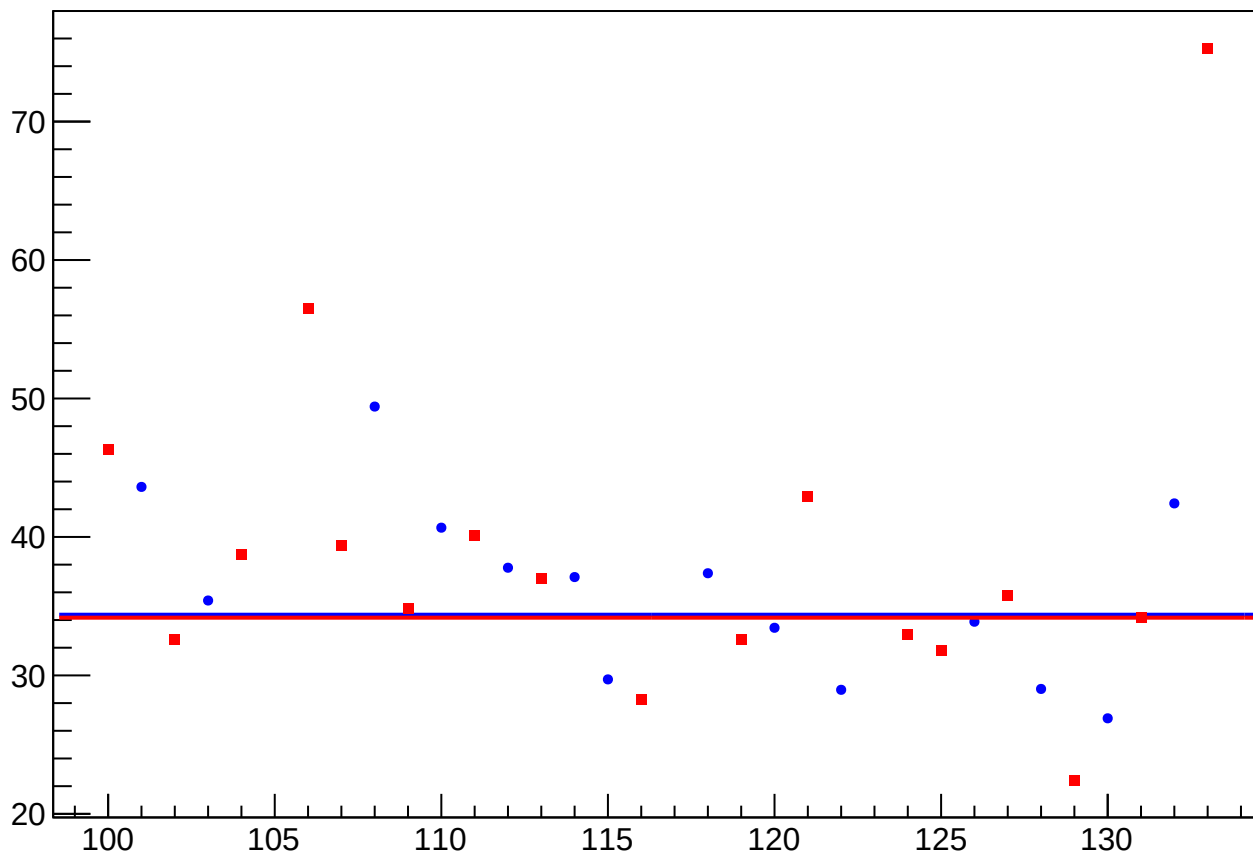
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.010  $\chi^2$ /NDF: 26.5/30

- 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: 34.383+/-0.010  $\chi^2/\text{NDF}$ : 314546.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 34.169+/-0.010  $\chi^2/\text{NDF}$ : 640965.4/16

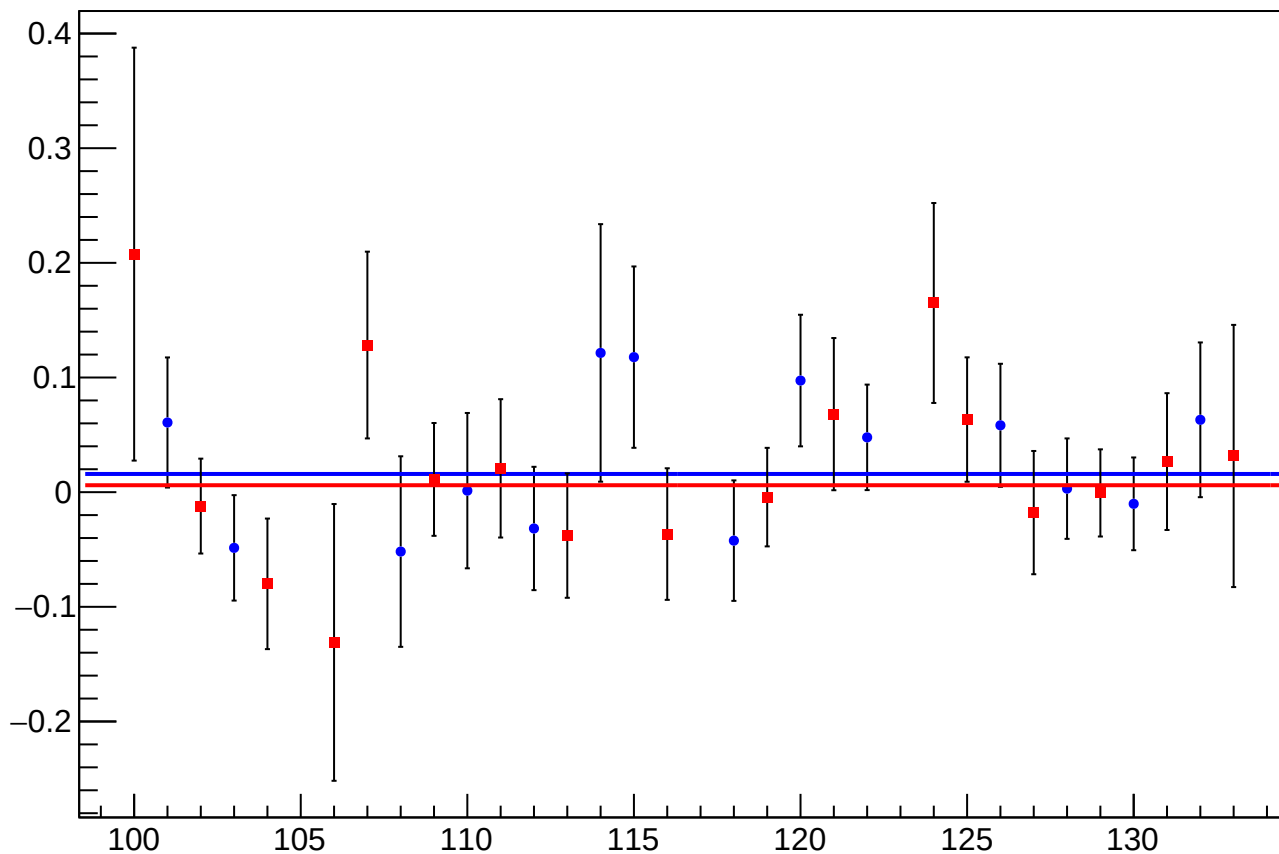
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.270+/-0.007  $\chi^2/\text{NDF}$ : 955732.8/30

- 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: 0.016 $\pm$ 0.015  $\chi^2$ /NDF: 12.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.006 $\pm$ 0.014  $\chi^2$ /NDF: 14.3/16

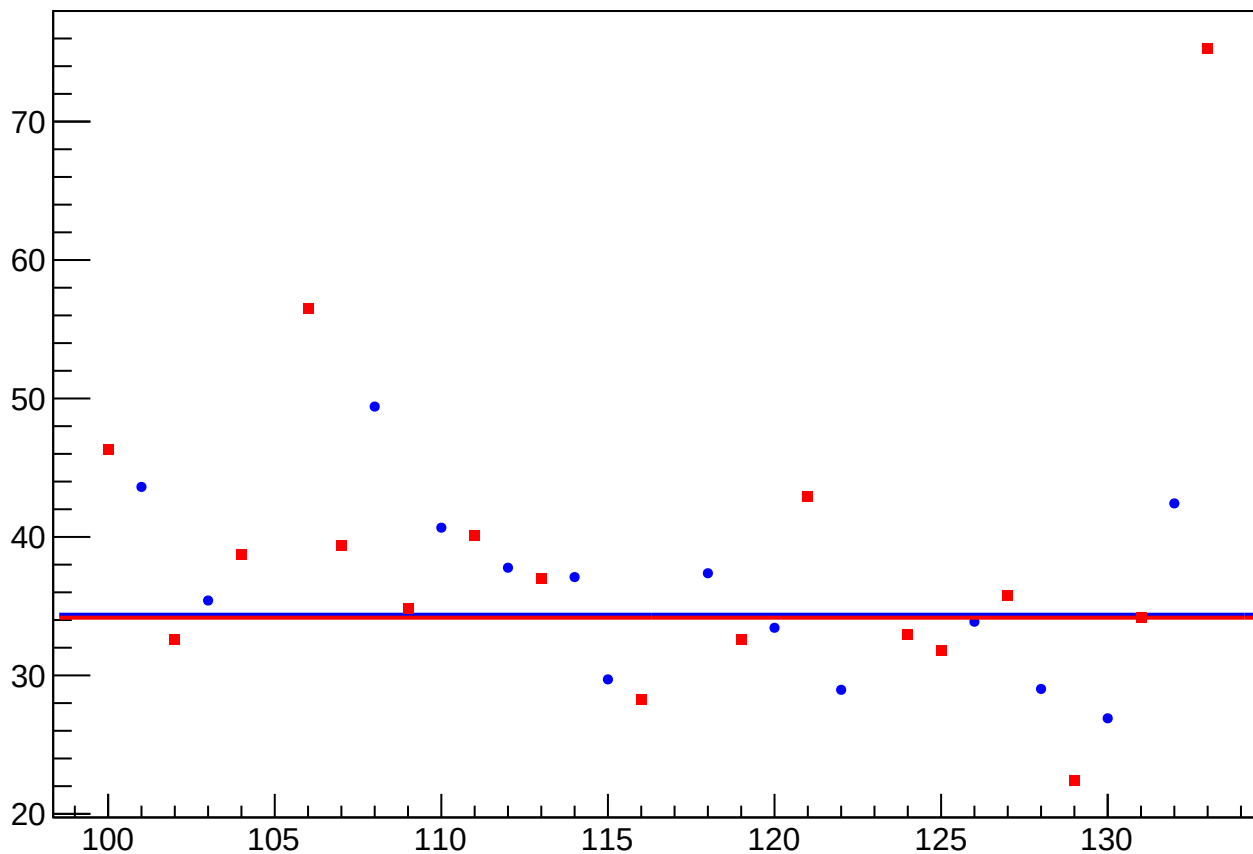
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.010  $\chi^2$ /NDF: 26.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug



Right In: 34.383+/-0.010  $\chi^2/\text{NDF}$ : 314546.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 34.169+/-0.010  $\chi^2/\text{NDF}$ : 640965.4/16

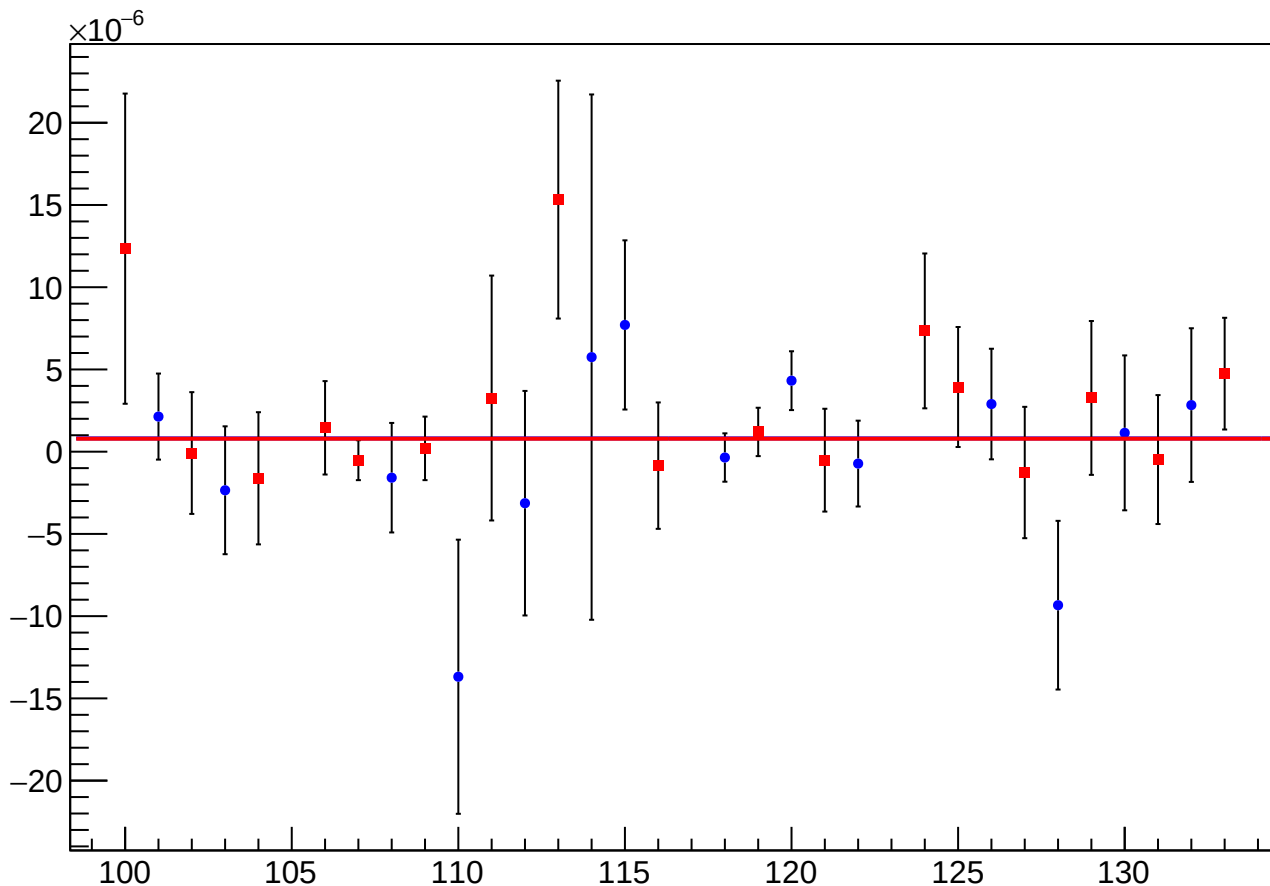
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.270+/-0.007  $\chi^2/\text{NDF}$ : 955732.8/30

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 16.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 12.5/16

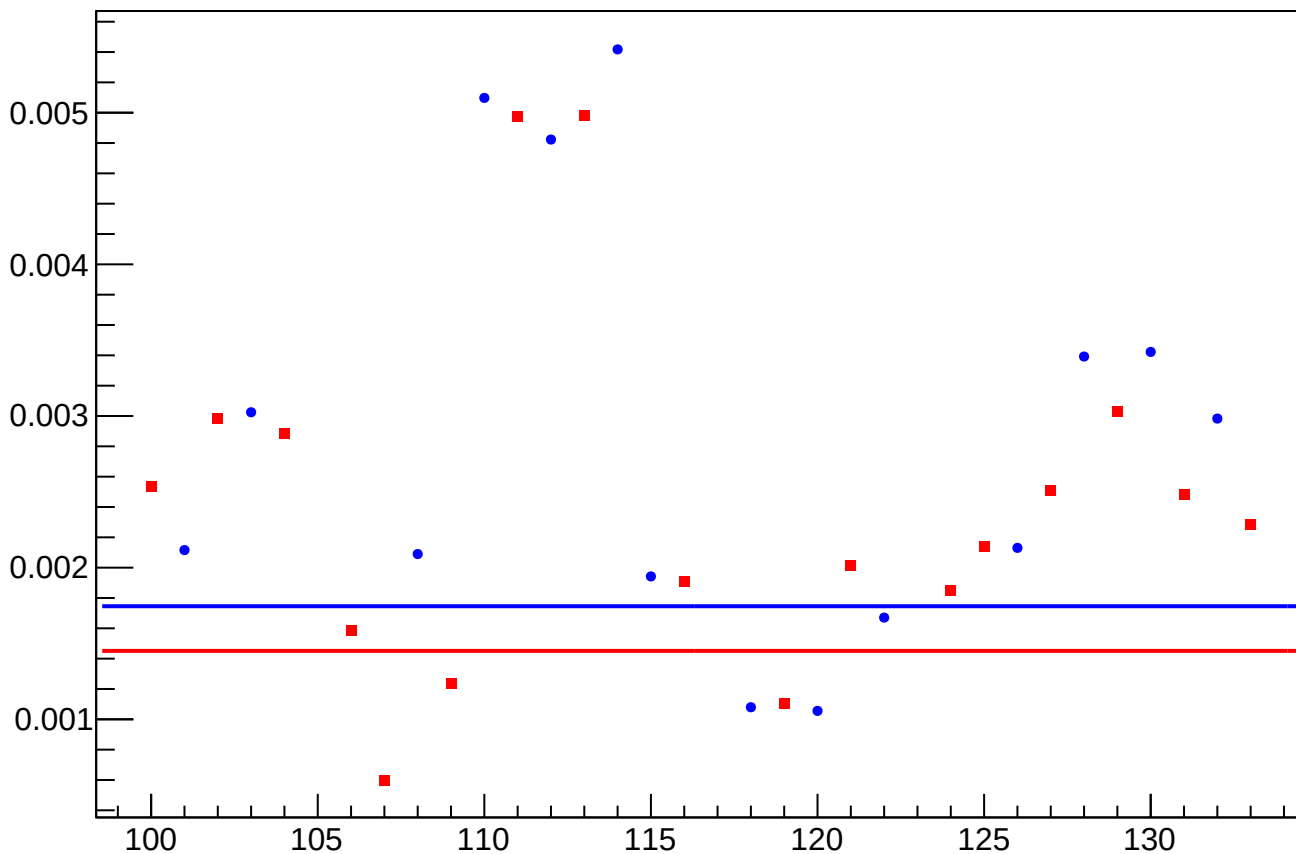
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 28.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2452756.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3486570.4/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

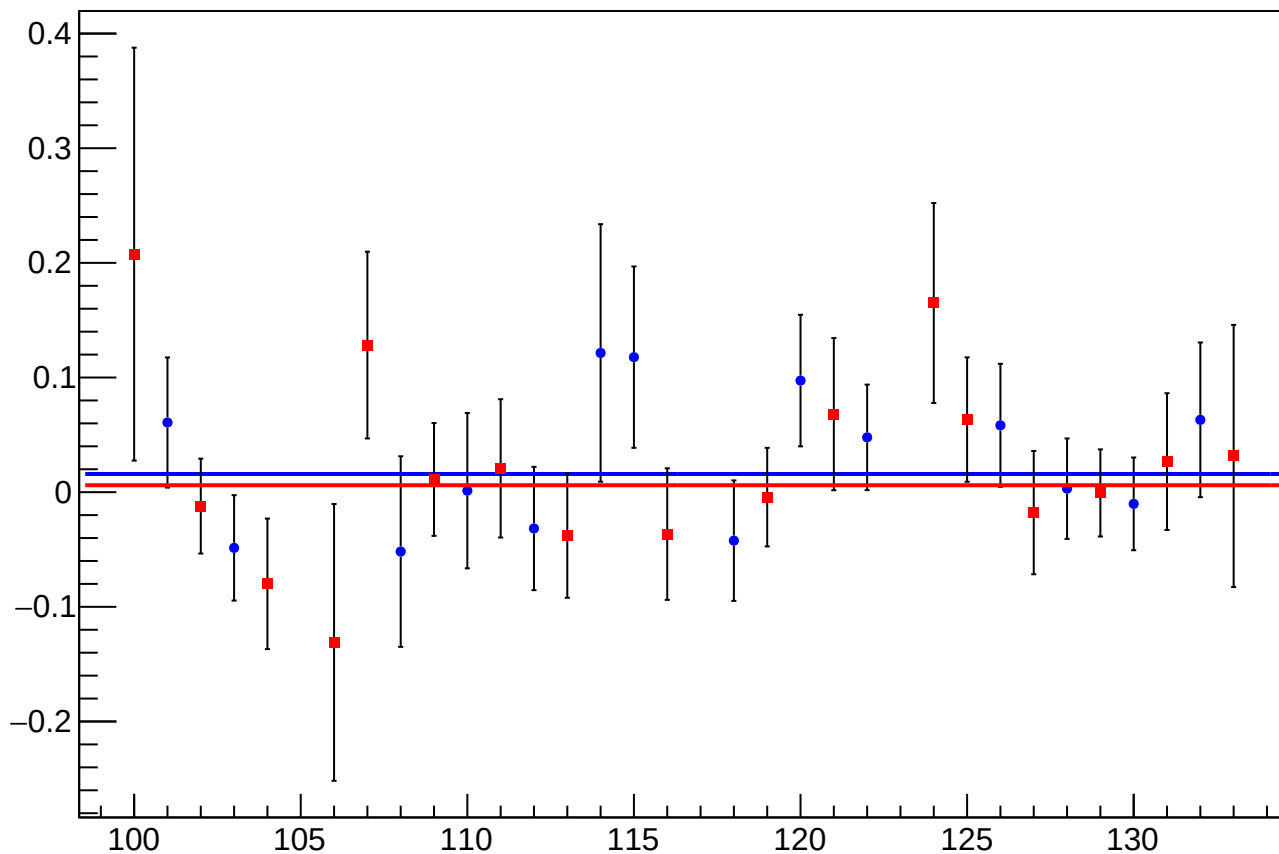
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 6097088.5/30

- 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: 0.016+/-0.015  $\chi^2/\text{NDF}$ : 12.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.014  $\chi^2/\text{NDF}$ : 14.3/16

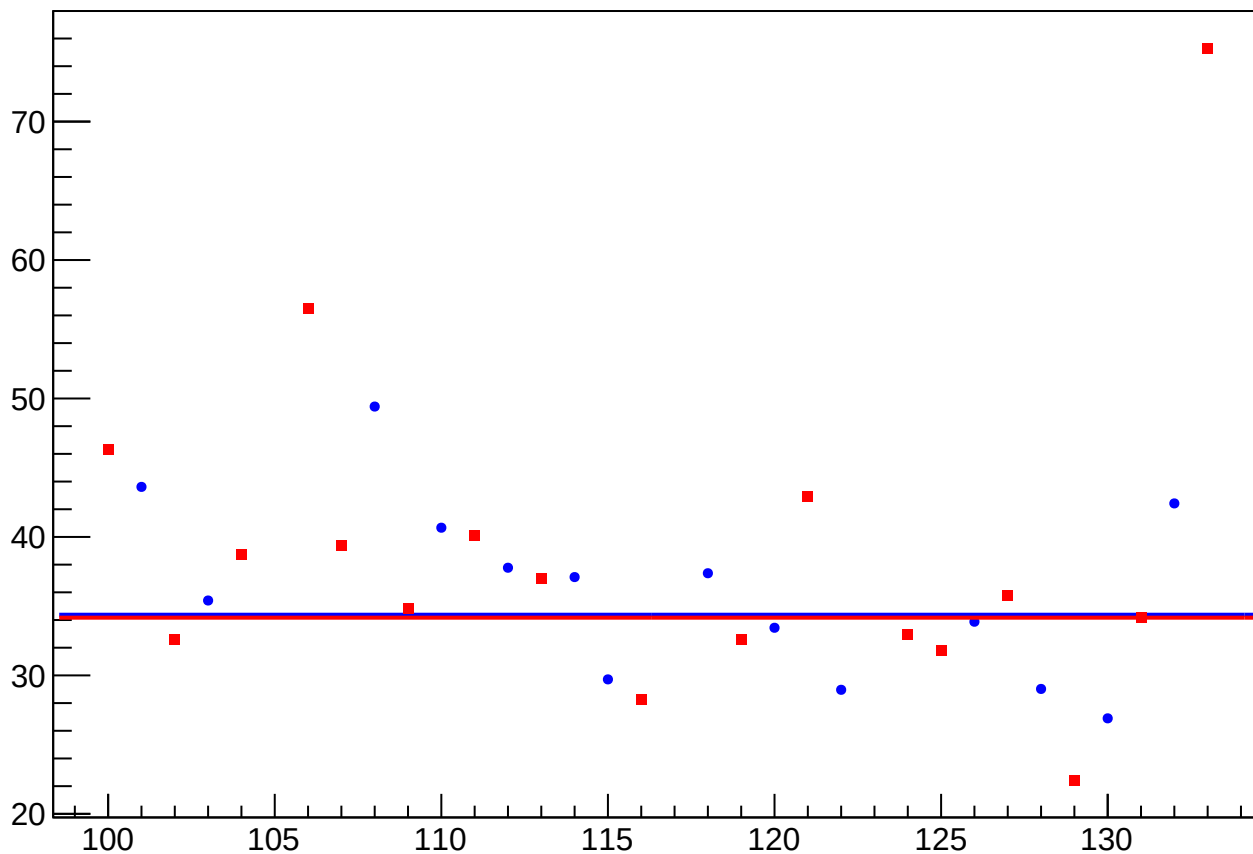
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.010  $\chi^2/\text{NDF}$ : 26.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug



Right In: 34.382 $\pm$ 0.010  $\chi^2$ /NDF: 314607.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 34.169 $\pm$ 0.010  $\chi^2$ /NDF: 641011.4/16

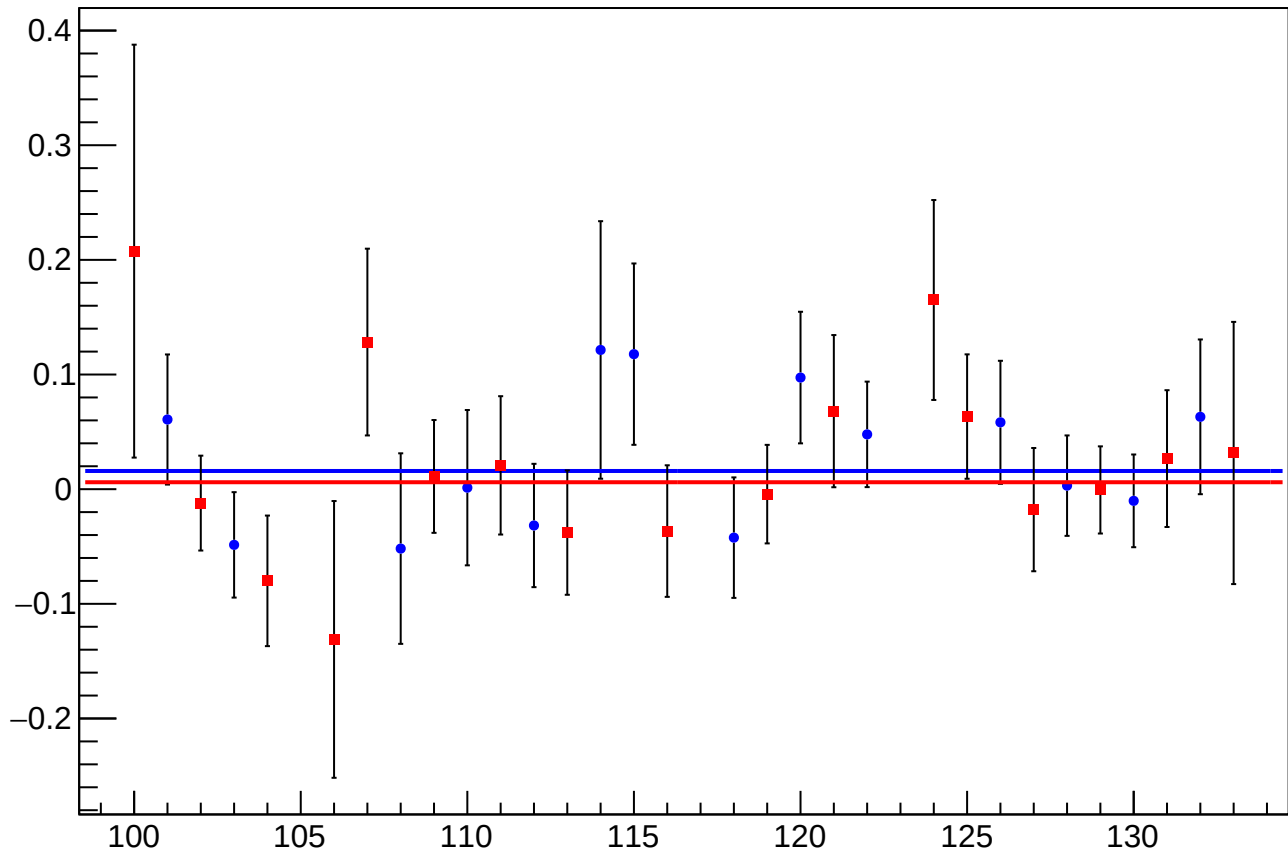
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 34.270 $\pm$ 0.007  $\chi^2$ /NDF: 955839.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug



Right In: 0.016 $\pm$ 0.015  $\chi^2$ /NDF: 12.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.006 $\pm$ 0.014  $\chi^2$ /NDF: 14.3/16

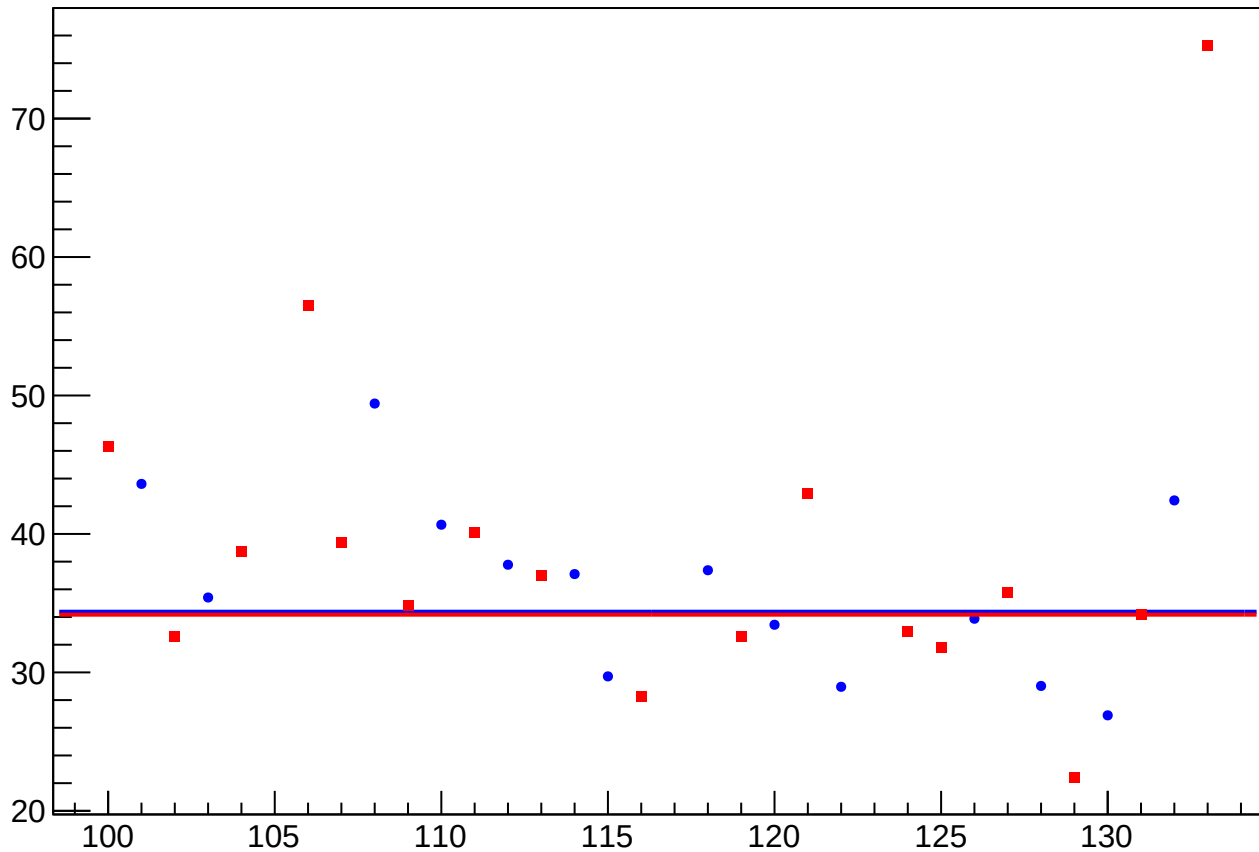
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.010  $\chi^2$ /NDF: 26.5/30

- 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: 34.382+/-0.010  $\chi^2/\text{NDF}$ : 314607.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 34.169+/-0.010  $\chi^2/\text{NDF}$ : 641011.4/16

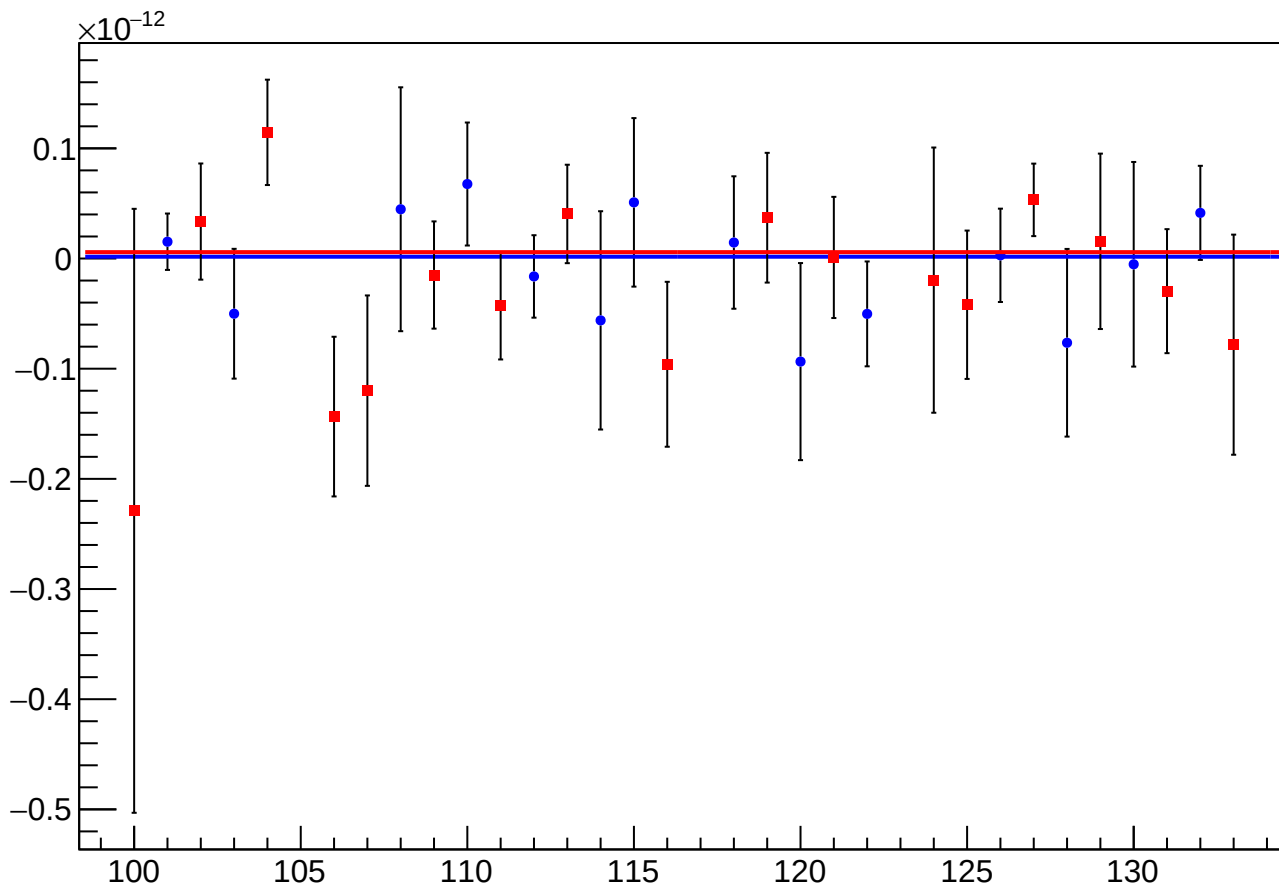
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.270+/-0.007  $\chi^2/\text{NDF}$ : 955839.3/30

- 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+/-0.000  $\chi^2/\text{NDF}$ : 7.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20.2/16

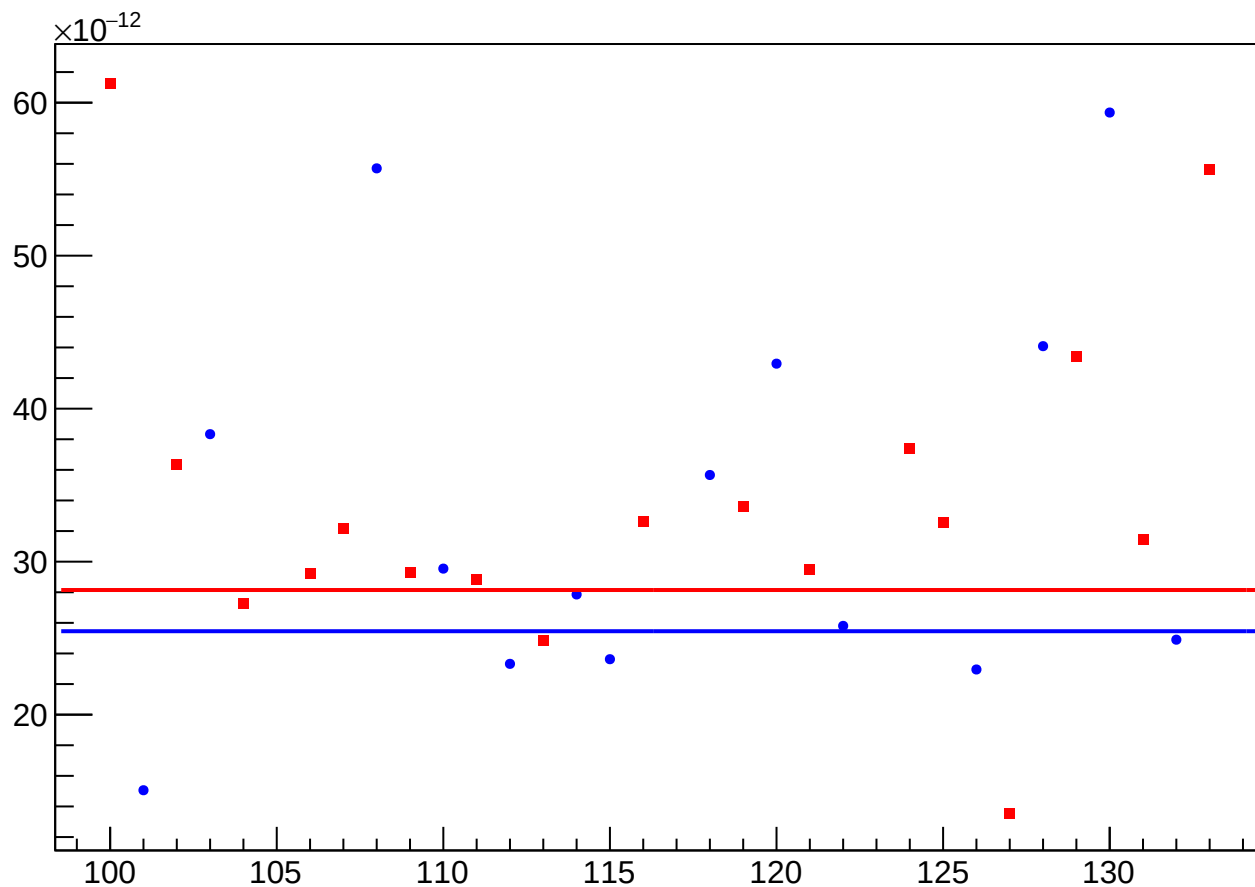
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 27.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1098247.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 767149.5/16

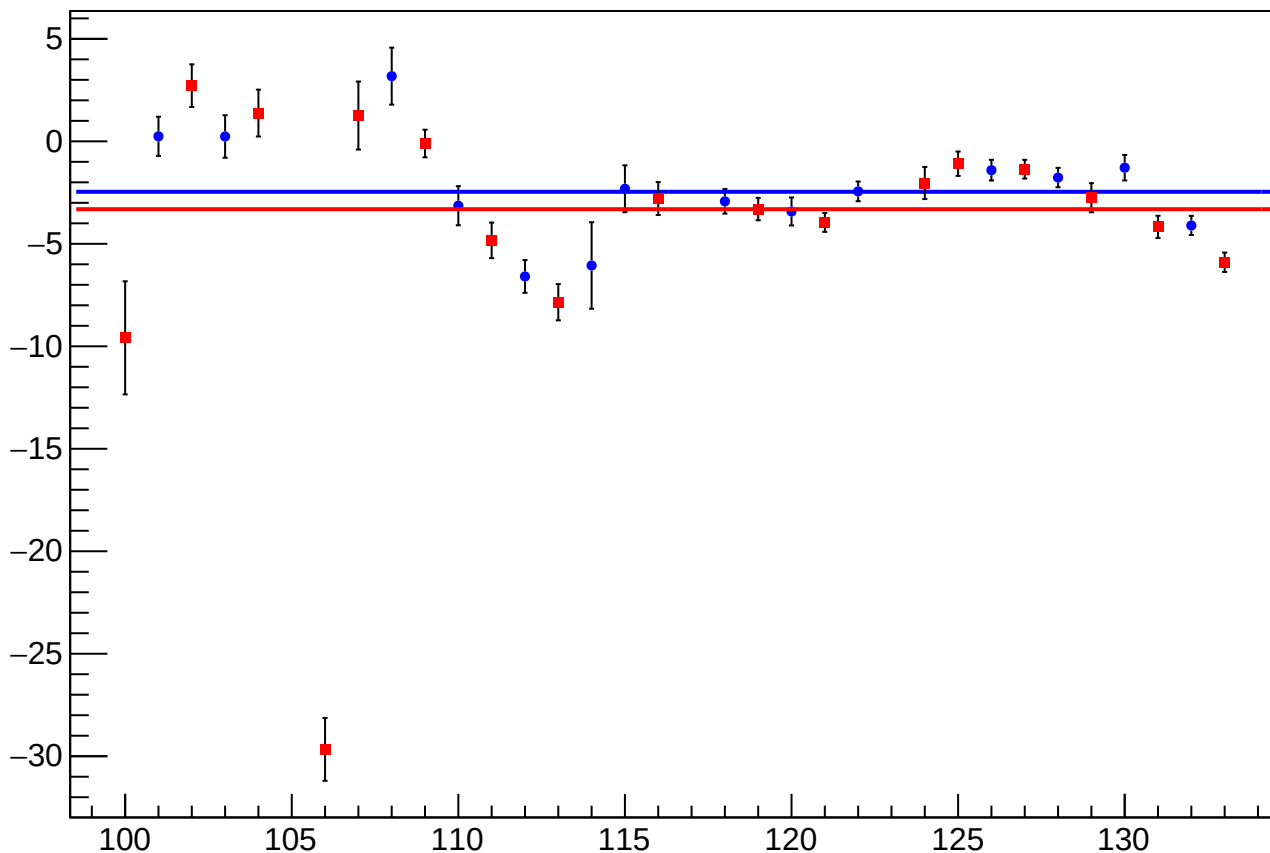
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1903321.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug



Right In:  $-2.462 \pm 0.180$   $\chi^2/\text{NDF}$ : 86.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-3.310 \pm 0.166$   $\chi^2/\text{NDF}$ : 481.2/16

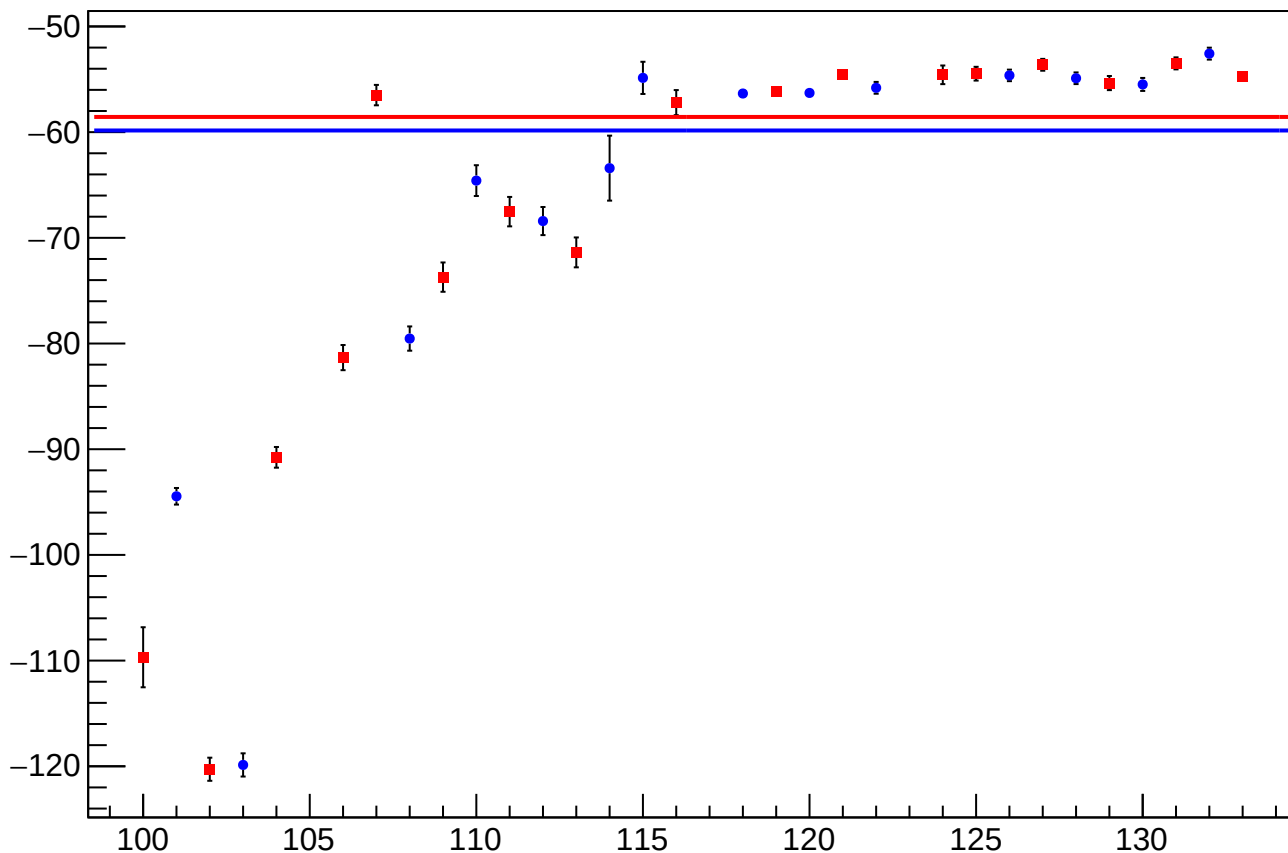
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.918 \pm 0.122$   $\chi^2/\text{NDF}$ : 579.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug



Right In:  $-59.843 \pm 0.173$   $\chi^2/\text{NDF}$ : 5889.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-58.562 \pm 0.160$   $\chi^2/\text{NDF}$ : 5689.8/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

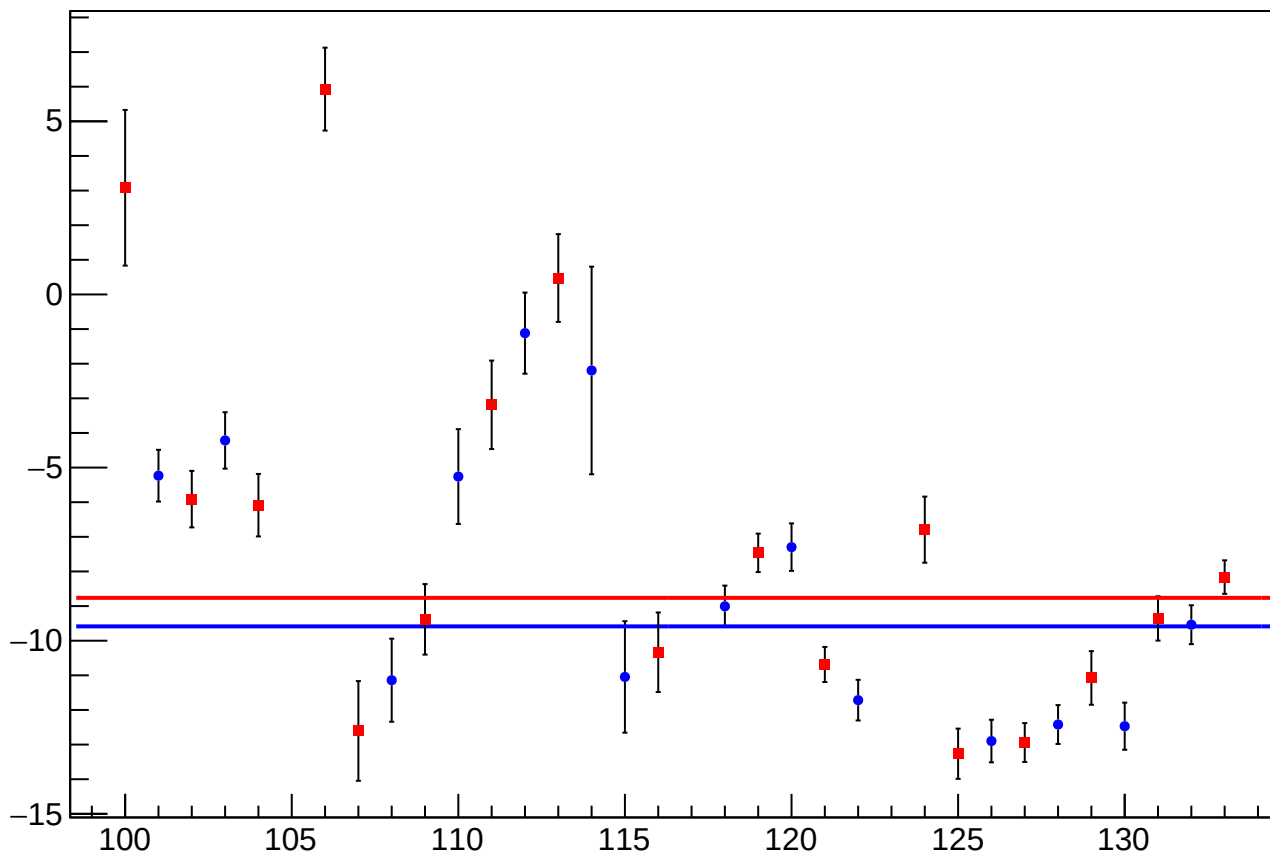
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-59.150 \pm 0.118$   $\chi^2/\text{NDF}$ : 11609.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug



Right In:  $-9.586 \pm 0.201$   $\chi^2/\text{NDF}$ : 245.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-8.762 \pm 0.186$   $\chi^2/\text{NDF}$ : 410.4/16

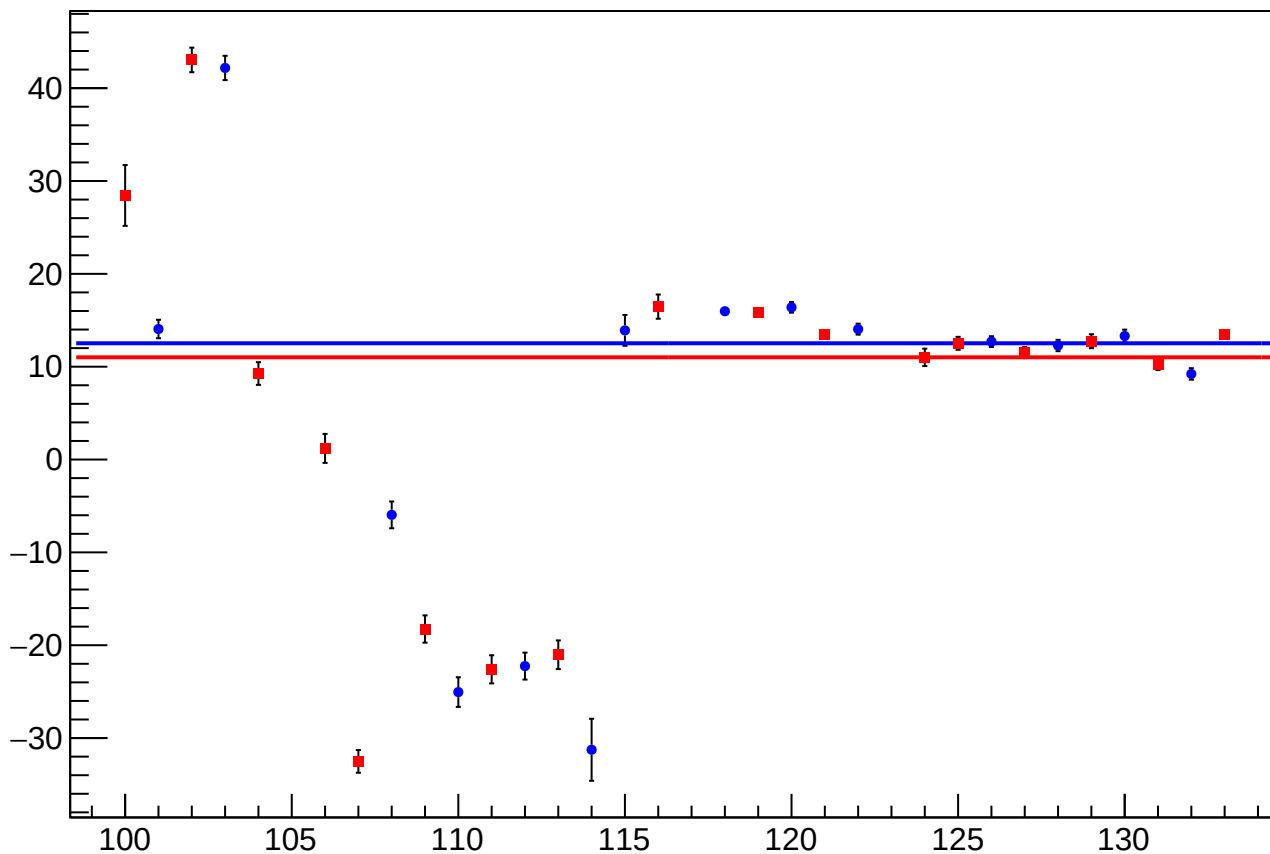
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-9.143 \pm 0.137$   $\chi^2/\text{NDF}$ : 665.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug



Right In: 12.522+/-0.203  $\chi^2/\text{NDF}$ : 2118.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11.011+/-0.186  $\chi^2/\text{NDF}$ : 3439.6/16

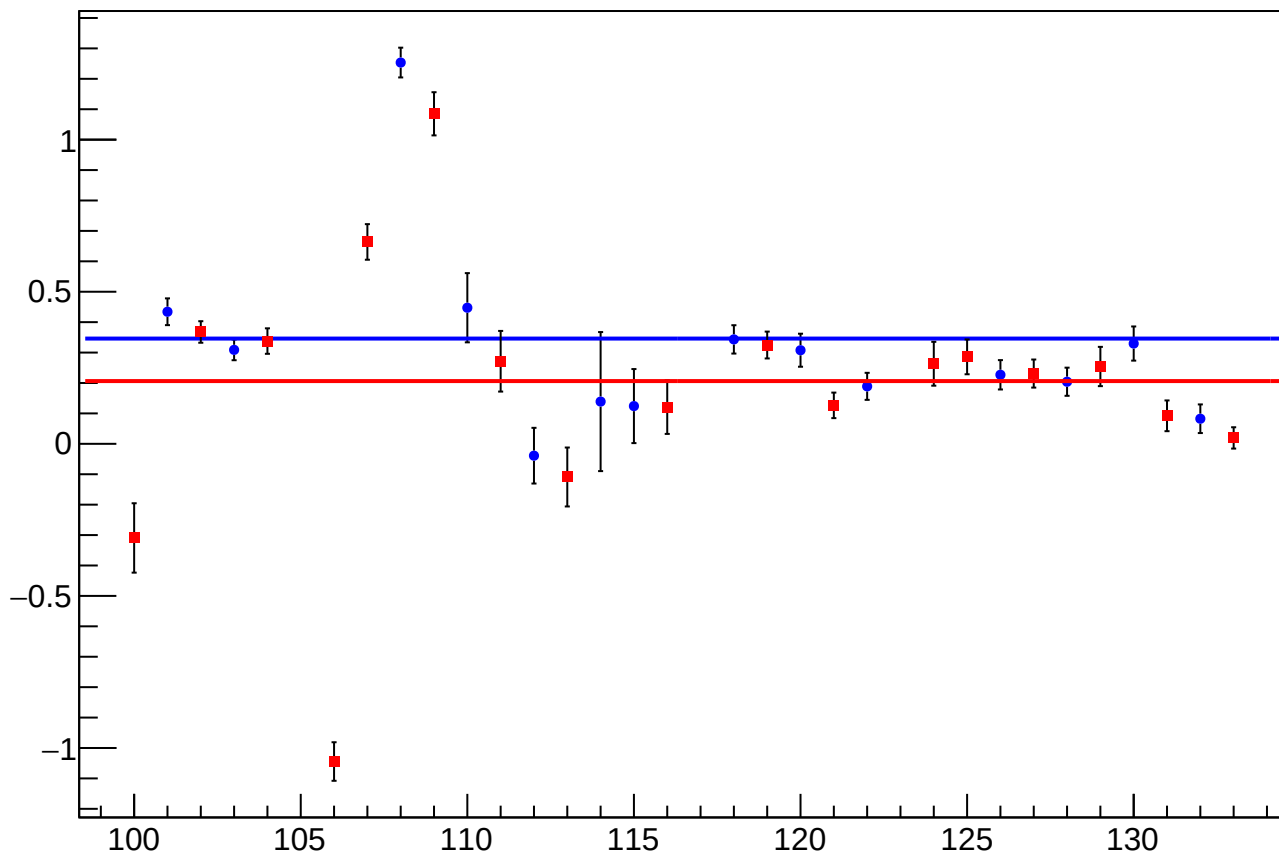
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11.700+/-0.137  $\chi^2/\text{NDF}$ : 5588.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug



Right In: 0.346+/-0.014  $\chi^2/\text{NDF}$ : 431.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.206+/-0.013  $\chi^2/\text{NDF}$ : 714.5/16

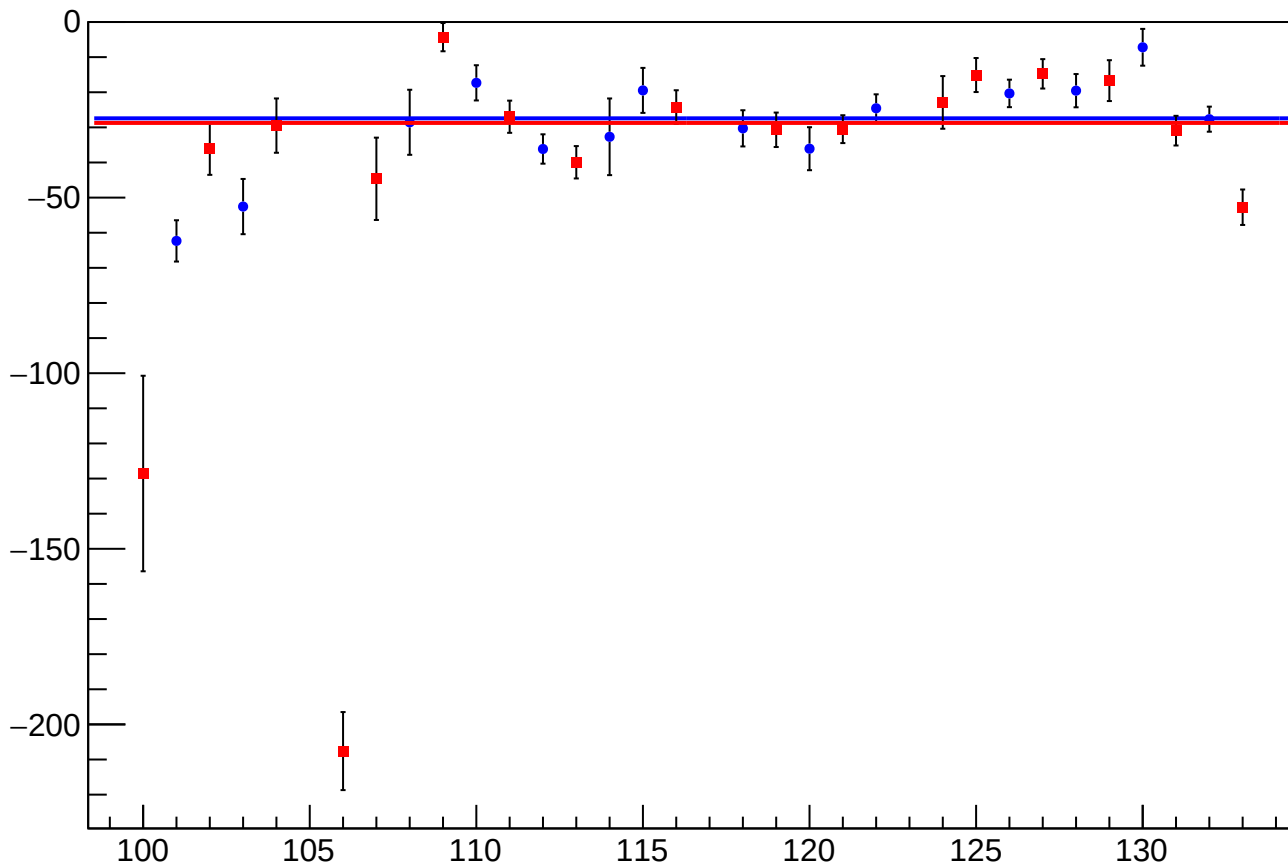
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.270+/-0.010  $\chi^2/\text{NDF}$ : 1199.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug



Right In: -27.426 $\pm$ 1.362  $\chi^2$ /NDF: 79.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -28.733 $\pm$ 1.292  $\chi^2$ /NDF: 365.9/16

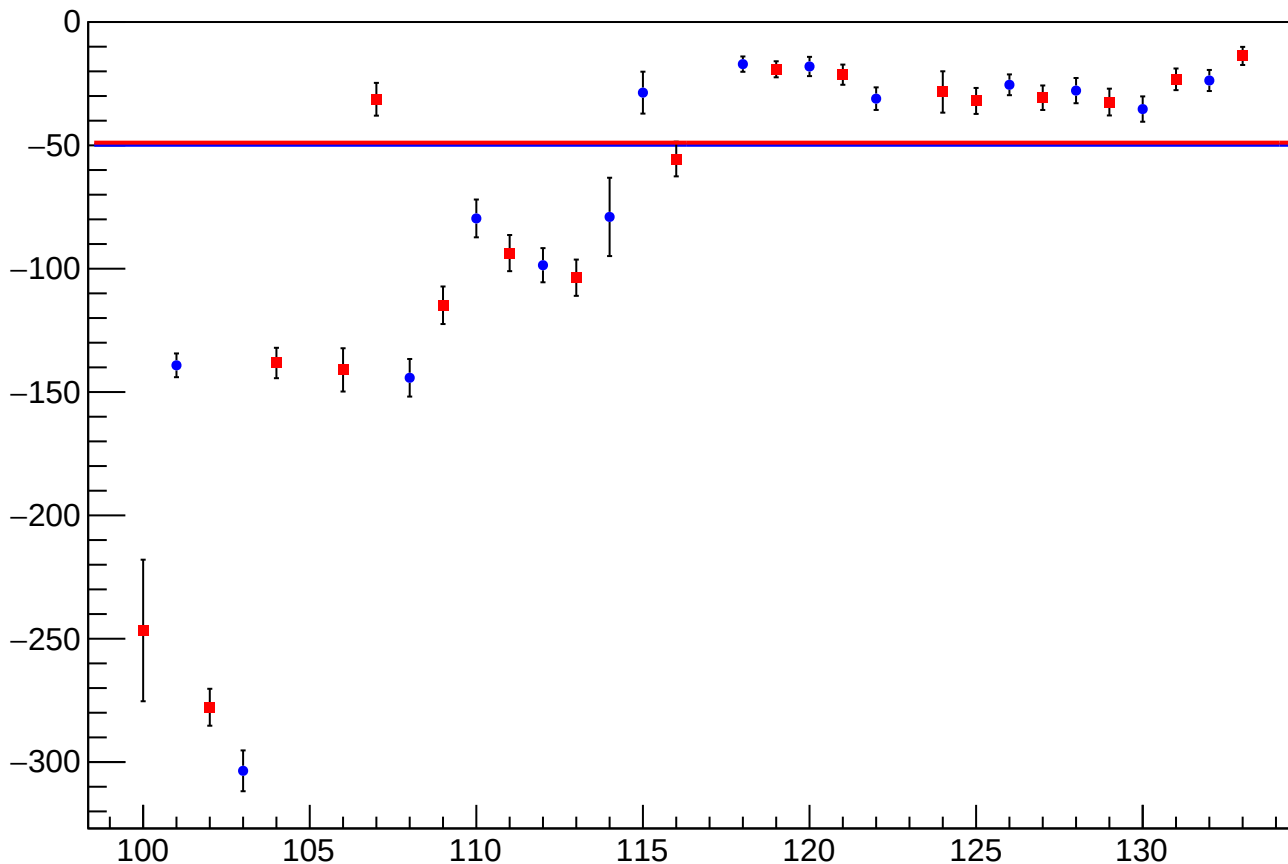
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -28.114 $\pm$ 0.937  $\chi^2$ /NDF: 445.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam2\_diff\_bpm4aY\_slope vs Slug



Right In:  $-49.759 \pm 1.367$   $\chi^2/\text{NDF}$ : 1803.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-48.905 \pm 1.335$   $\chi^2/\text{NDF}$ : 1772.6/16

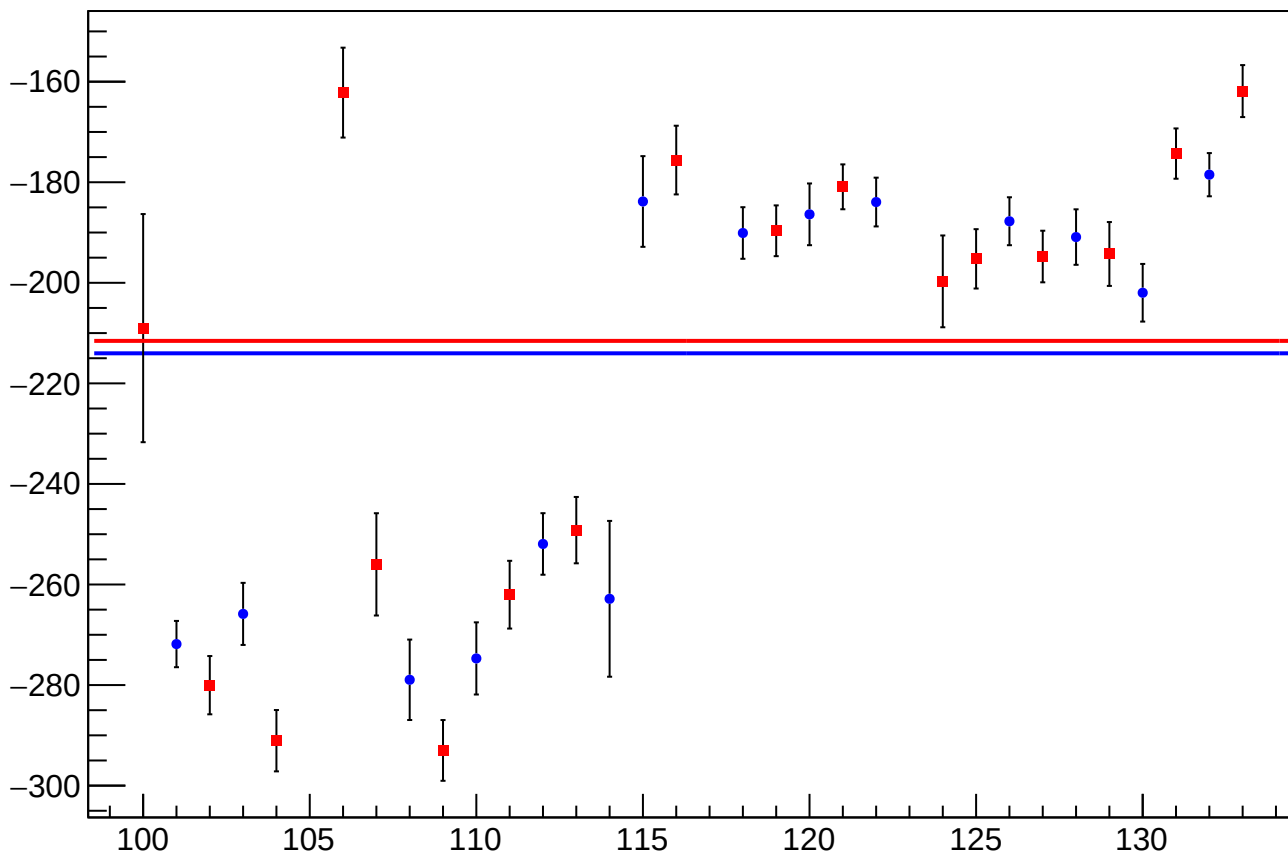
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-49.322 \pm 0.955$   $\chi^2/\text{NDF}$ : 3576.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug



Right In: -214.022+/-1.543  $\chi^2/\text{NDF}$ : 626.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -211.551+/-1.499  $\chi^2/\text{NDF}$ : 898.5/16

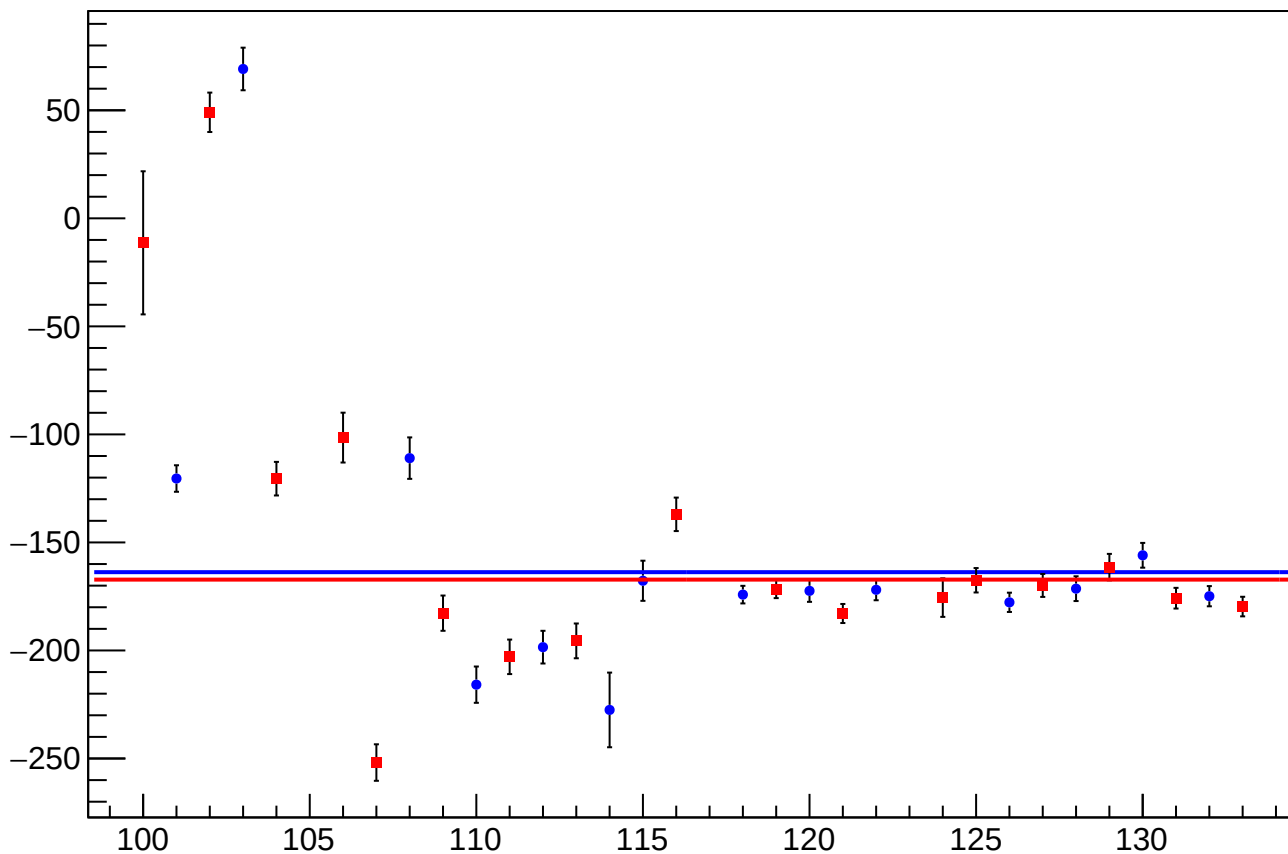
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -212.751+/-1.075  $\chi^2/\text{NDF}$ : 1526.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug



Right In:  $-163.760 \pm 1.595$   $\chi^2/\text{NDF}$ : 743.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-167.207 \pm 1.542$   $\chi^2/\text{NDF}$ : 831.3/16

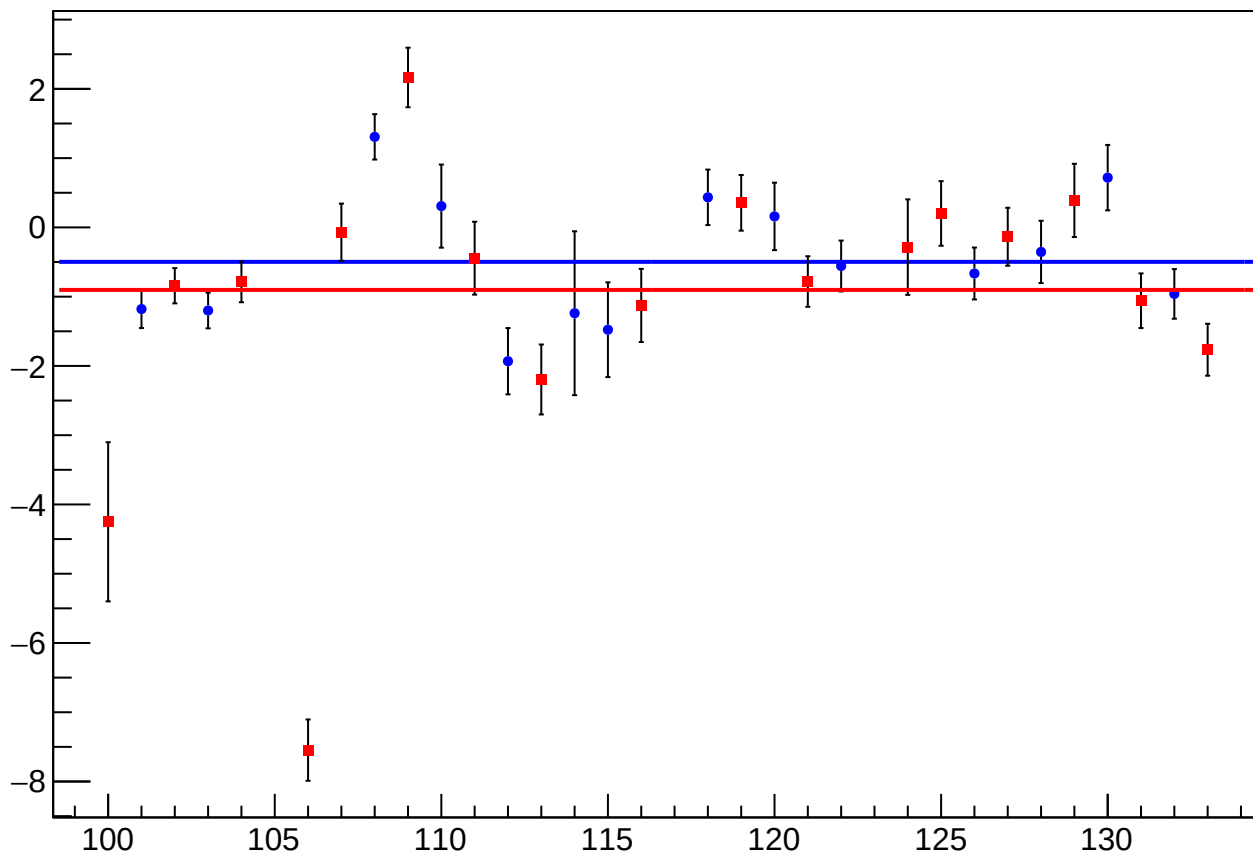
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-165.543 \pm 1.109$   $\chi^2/\text{NDF}$ : 1576.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.497 \pm 0.106$   $\chi^2/\text{NDF}$ : 73.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.903 \pm 0.101$   $\chi^2/\text{NDF}$ : 327.5/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

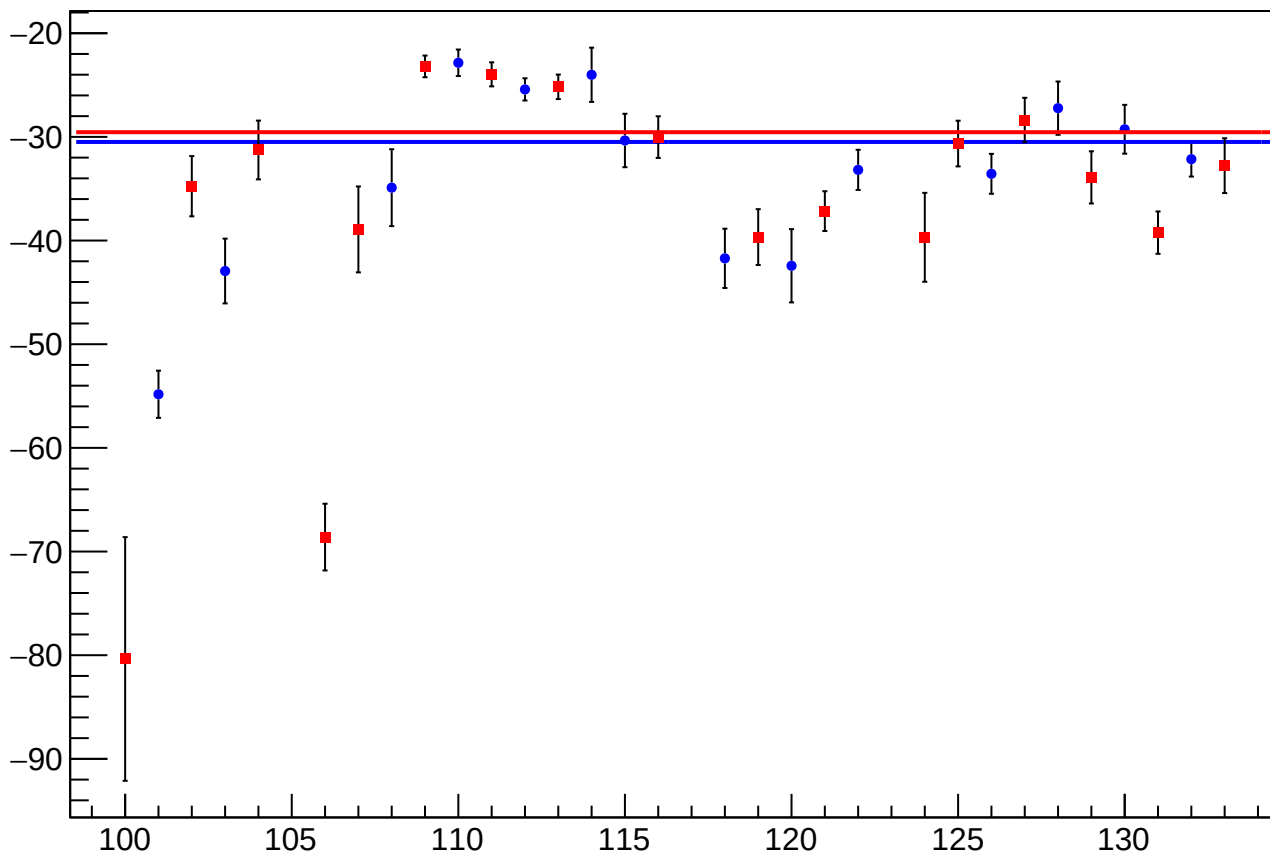
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.709 \pm 0.073$   $\chi^2/\text{NDF}$ : 408.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug



Right In:  $-30.488 \pm 0.529$   $\chi^2/\text{NDF}$ : 229.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-29.547 \pm 0.474$   $\chi^2/\text{NDF}$ : 311.3/16

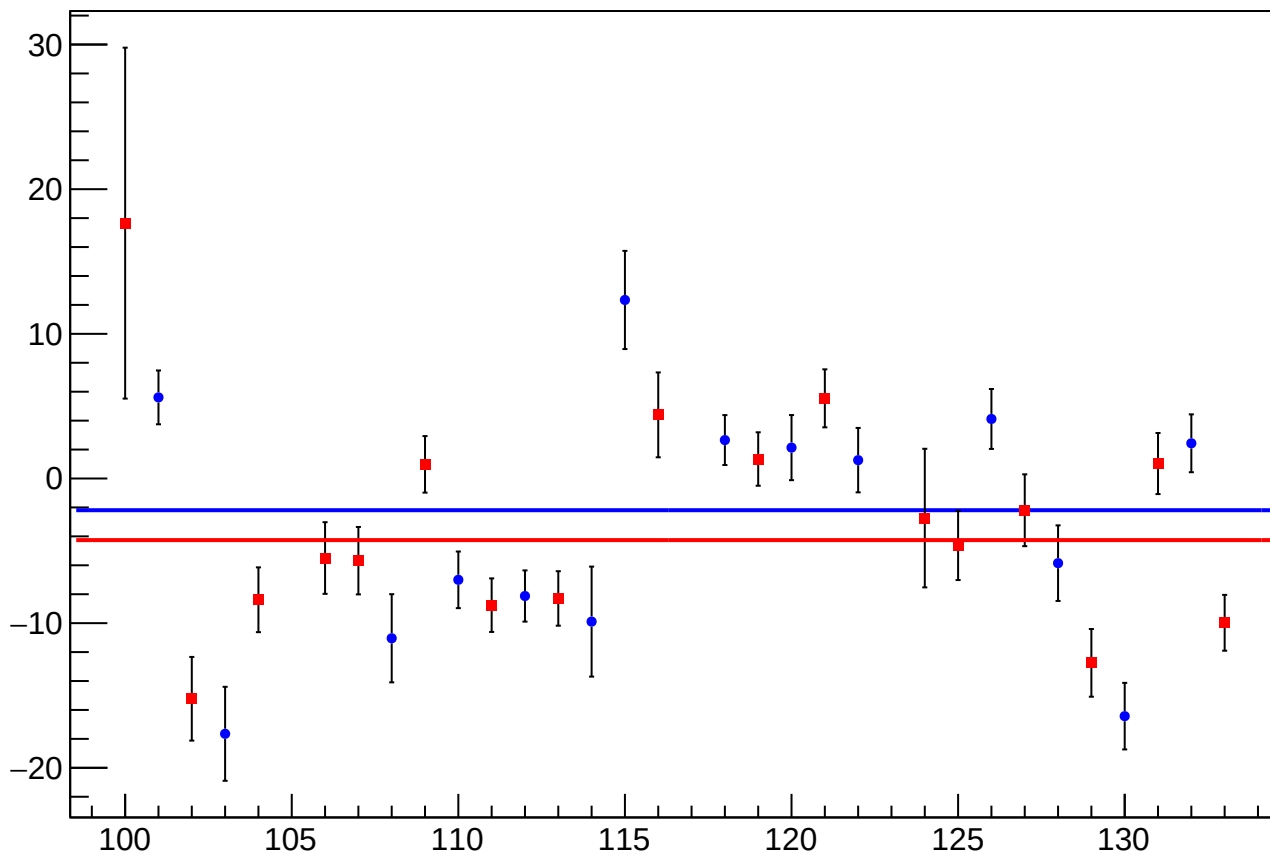
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-29.966 \pm 0.353$   $\chi^2/\text{NDF}$ : 542.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_diff\_bpm4aY\_slope vs Slug



Right In:  $-2.193 \pm 0.600$   $\chi^2/\text{NDF}$ : 157.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.259 \pm 0.557$   $\chi^2/\text{NDF}$ : 110.2/16

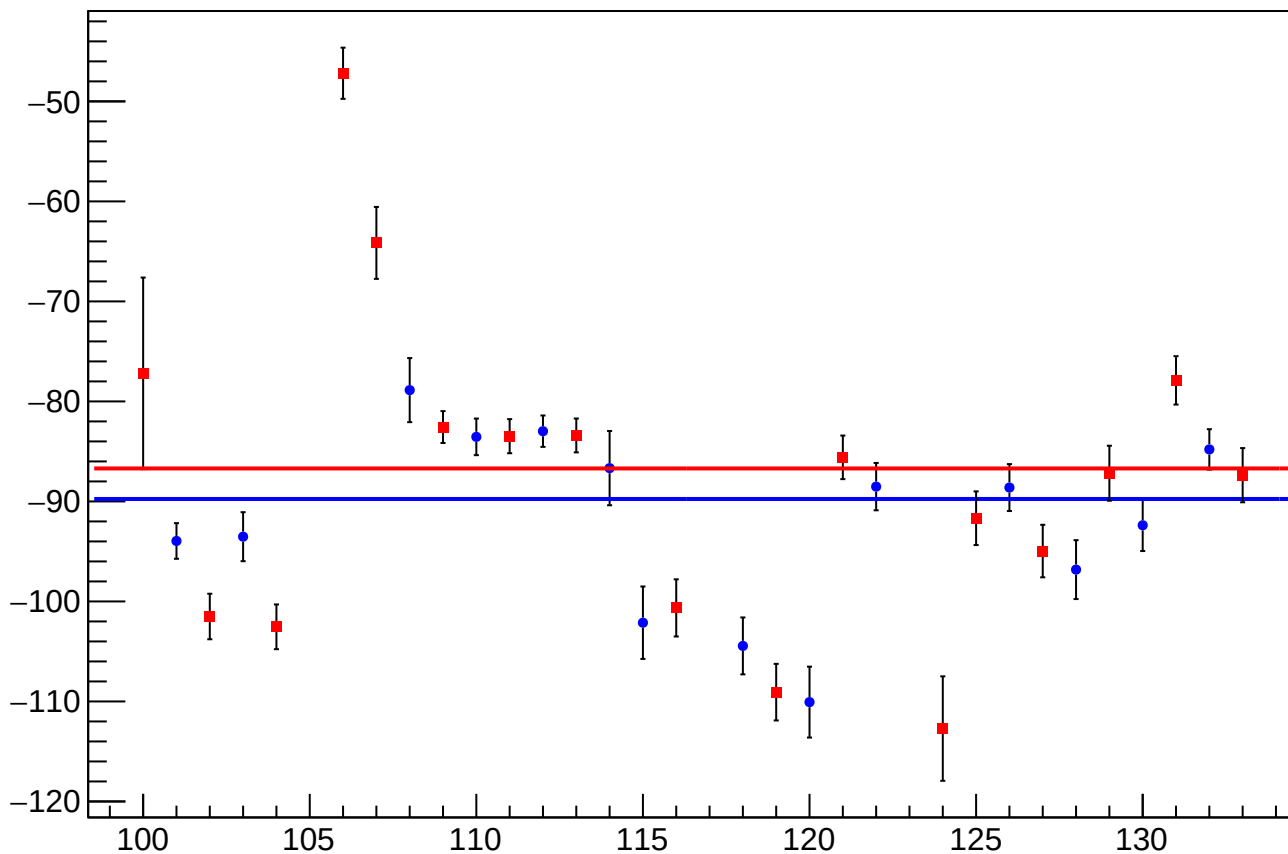
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-3.302 \pm 0.408$   $\chi^2/\text{NDF}$ : 273.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug



Right In:  $-89.754 \pm 0.632$   $\chi^2/\text{NDF}$ : 134.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-86.704 \pm 0.583$   $\chi^2/\text{NDF}$ : 523.5/16

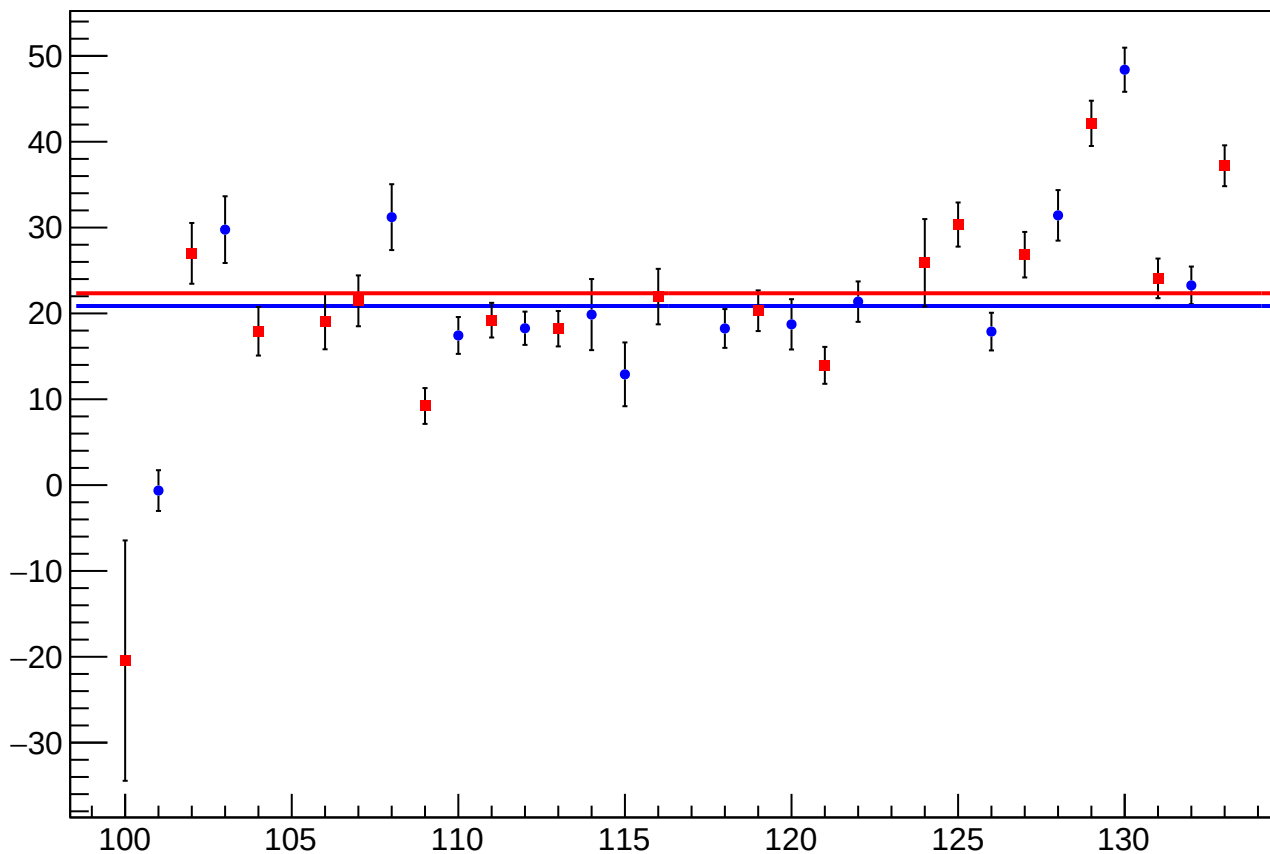
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-88.108 \pm 0.429$   $\chi^2/\text{NDF}$ : 670.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug



Right In: 20.864 $\pm$ 0.690  $\chi^2$ /NDF: 236.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.348 $\pm$ 0.638  $\chi^2$ /NDF: 185.4/16

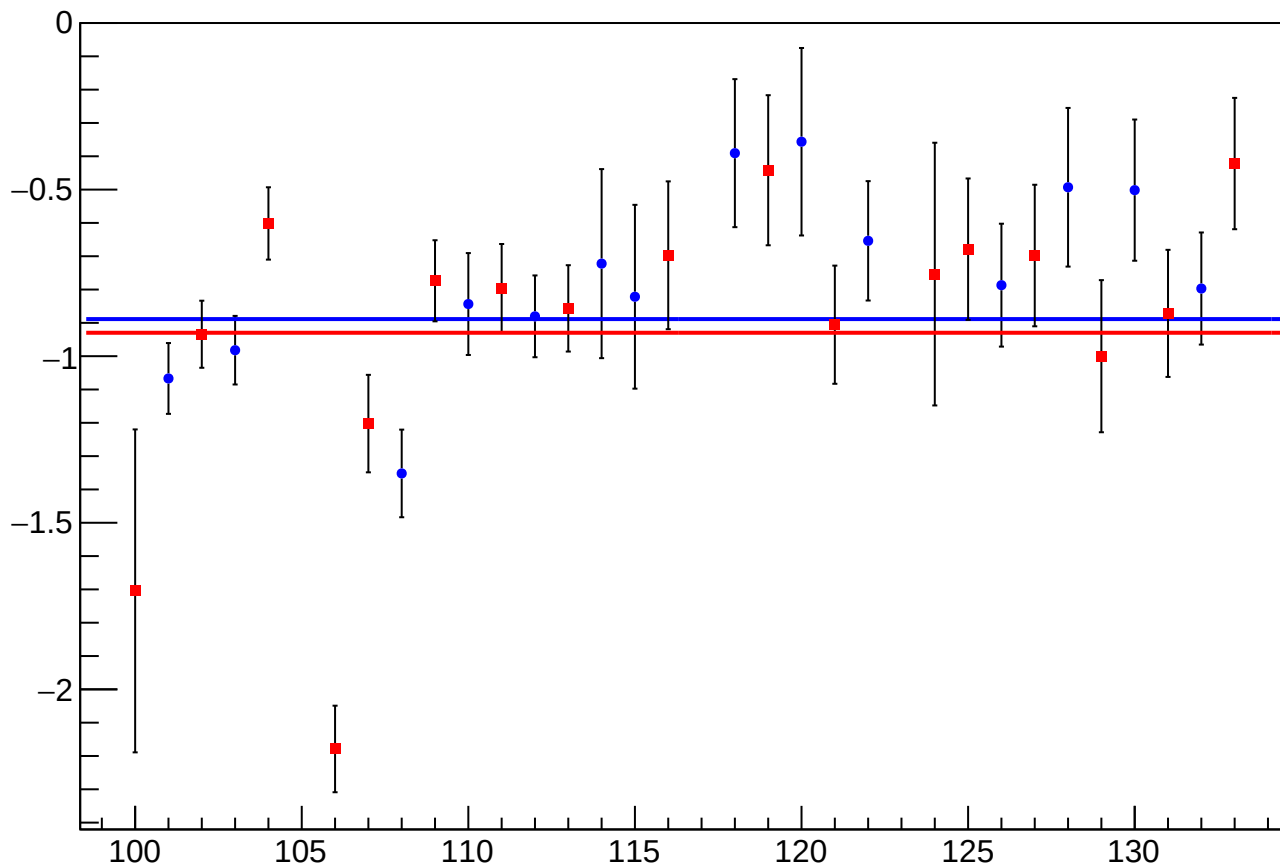
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.664 $\pm$ 0.468  $\chi^2$ /NDF: 424.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.889 \pm 0.043$   $\chi^2/\text{NDF}$ : 33.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.930 \pm 0.039$   $\chi^2/\text{NDF}$ : 126.0/16

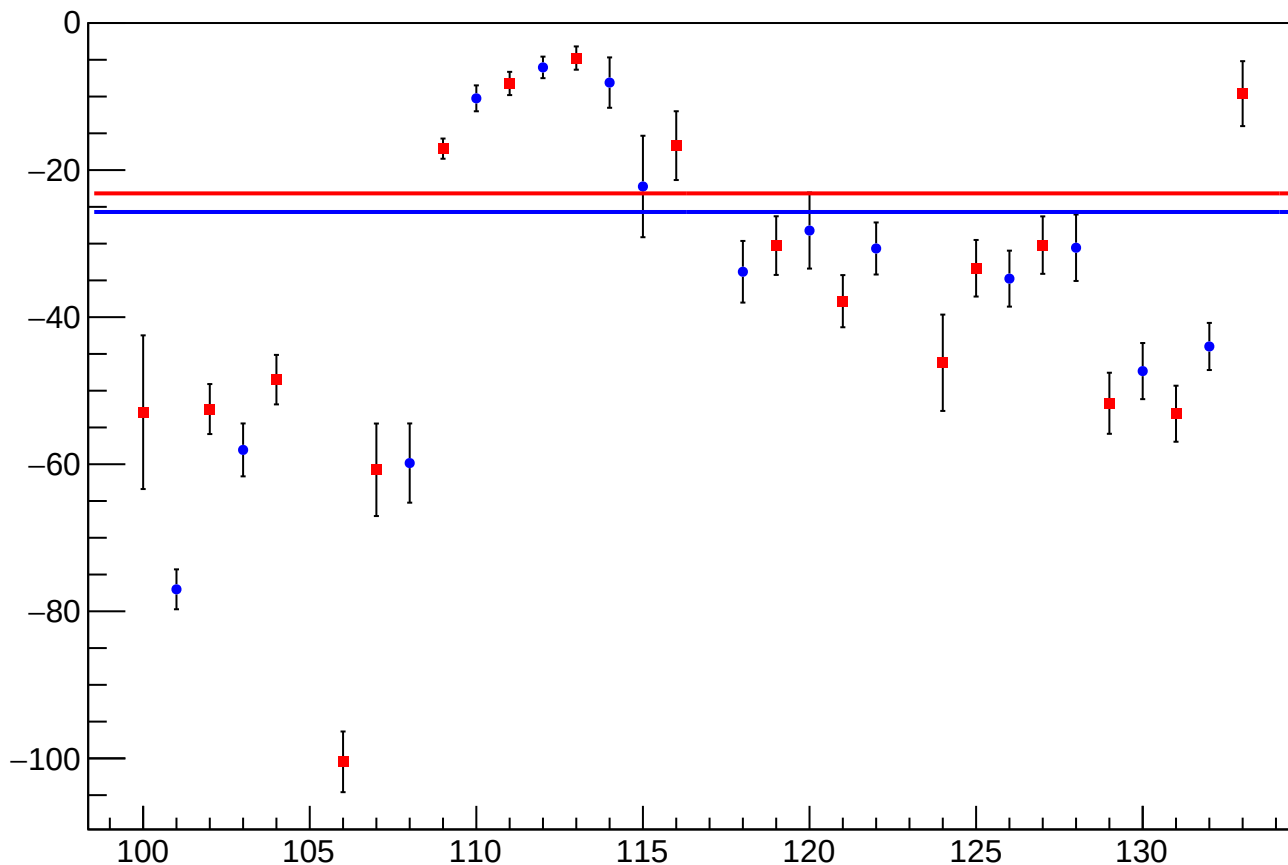
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.911 \pm 0.029$   $\chi^2/\text{NDF}$ : 160.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug



Right In:  $-25.698 \pm 0.790$   $\chi^2/\text{NDF}$ : 840.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-23.168 \pm 0.687$   $\chi^2/\text{NDF}$ : 933.5/16

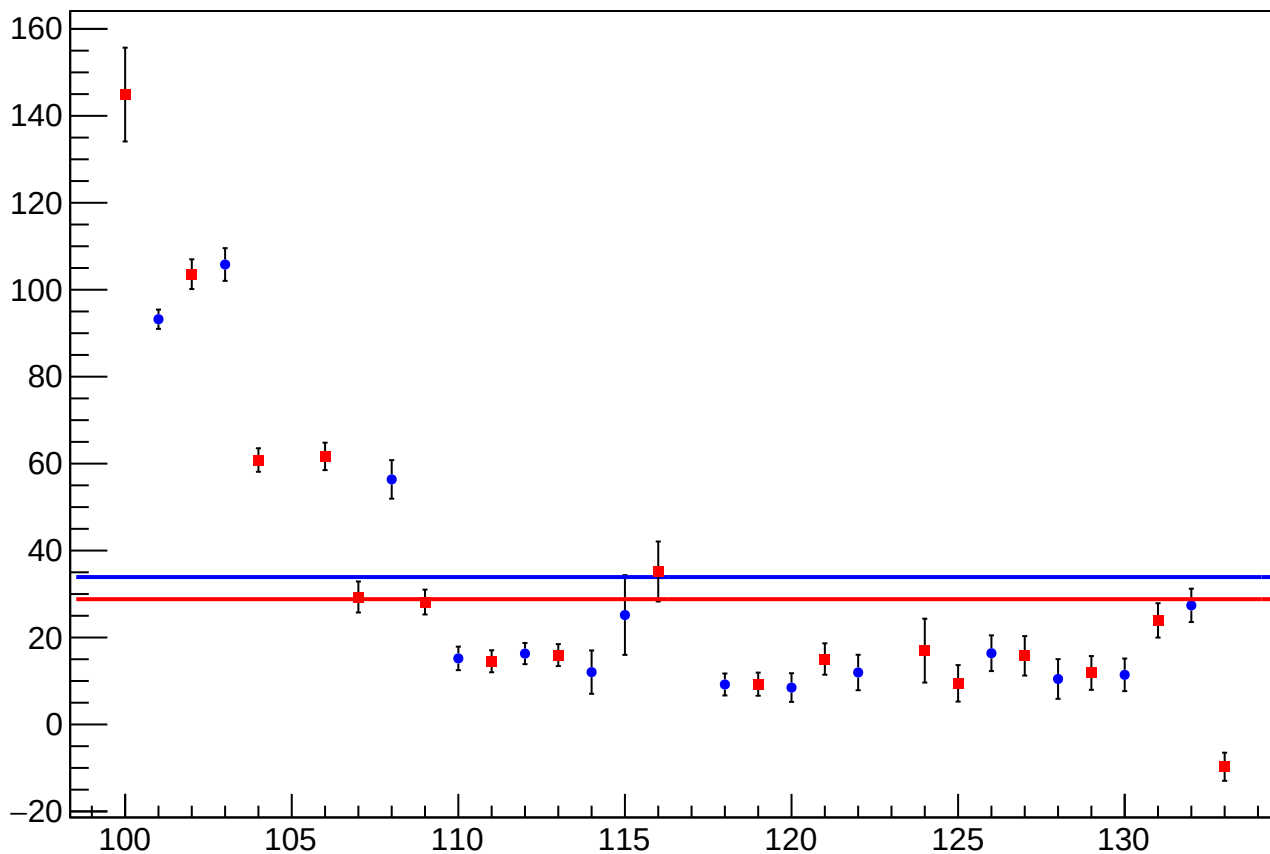
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-24.256 \pm 0.518$   $\chi^2/\text{NDF}$ : 1779.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug



Right In: 33.905 $\pm$ 0.899  $\chi^2$ /NDF: 1492.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28.819 $\pm$ 0.835  $\chi^2$ /NDF: 1164.4/16

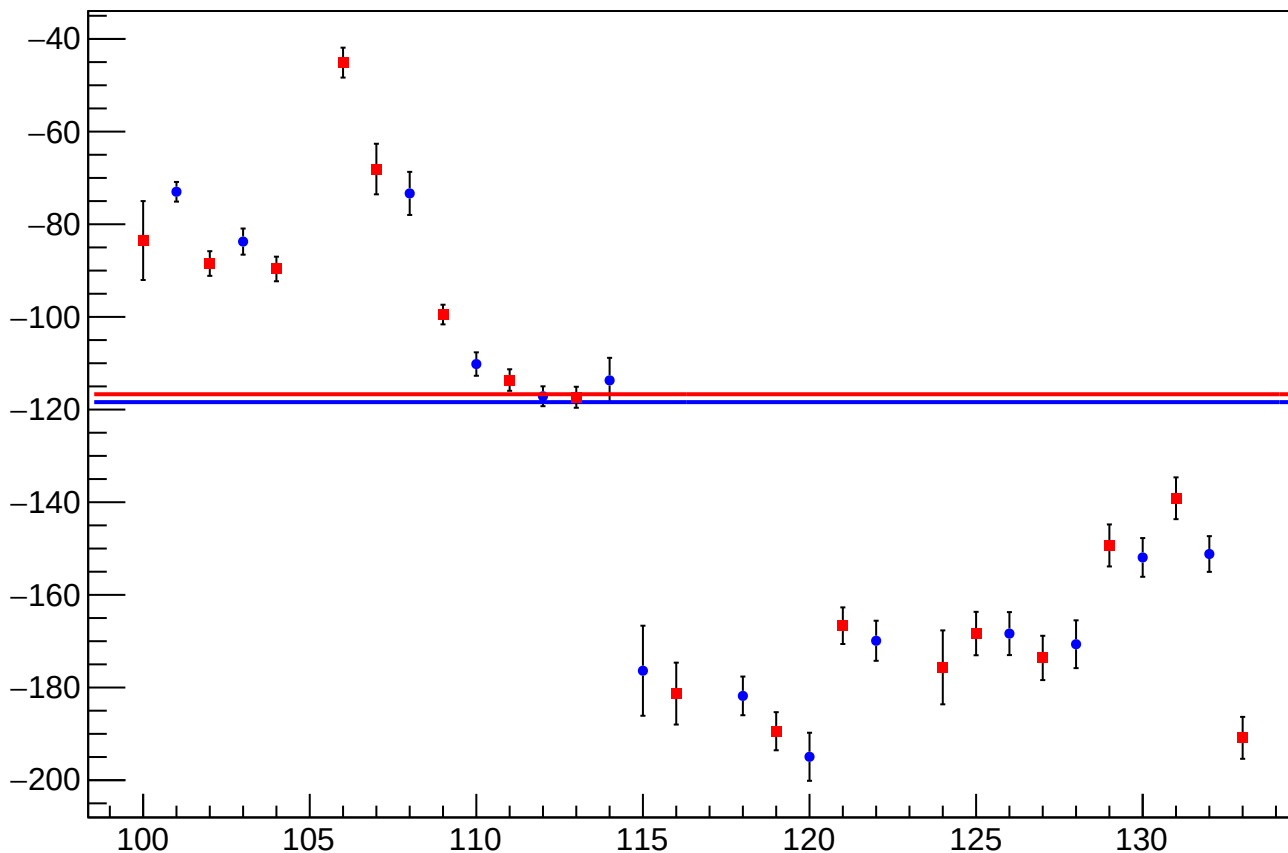
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.174 $\pm$ 0.612  $\chi^2$ /NDF: 2674.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug



Right In:  $-118.396 \pm 0.922$   $\chi^2/\text{NDF}$ : 1695.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-116.692 \pm 0.838$   $\chi^2/\text{NDF}$ : 2098.6/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

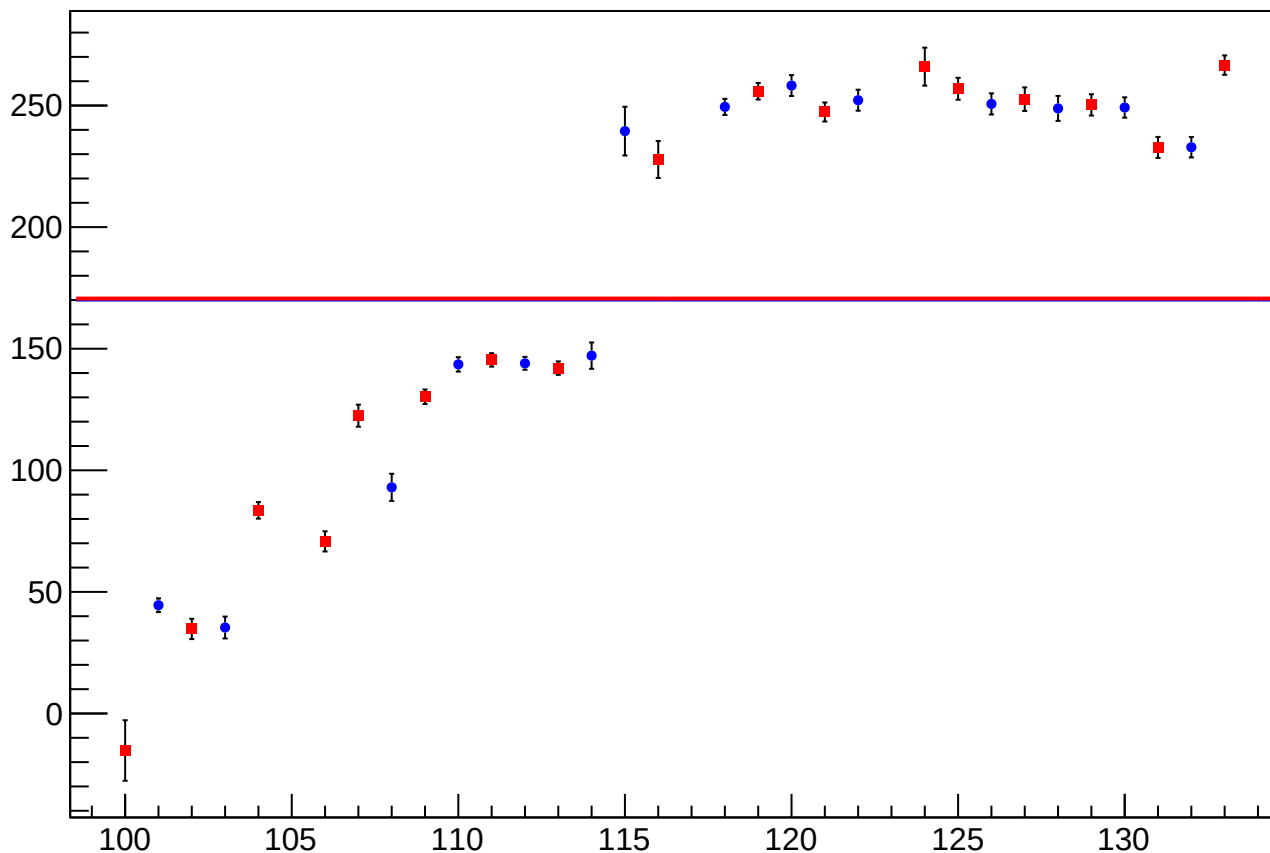
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-117.463 \pm 0.620$   $\chi^2/\text{NDF}$ : 3795.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug



Right In: 170.239+/-1.048  $\chi^2/\text{NDF}$ : 5823.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 170.623+/-0.963  $\chi^2/\text{NDF}$ : 5991.7/16

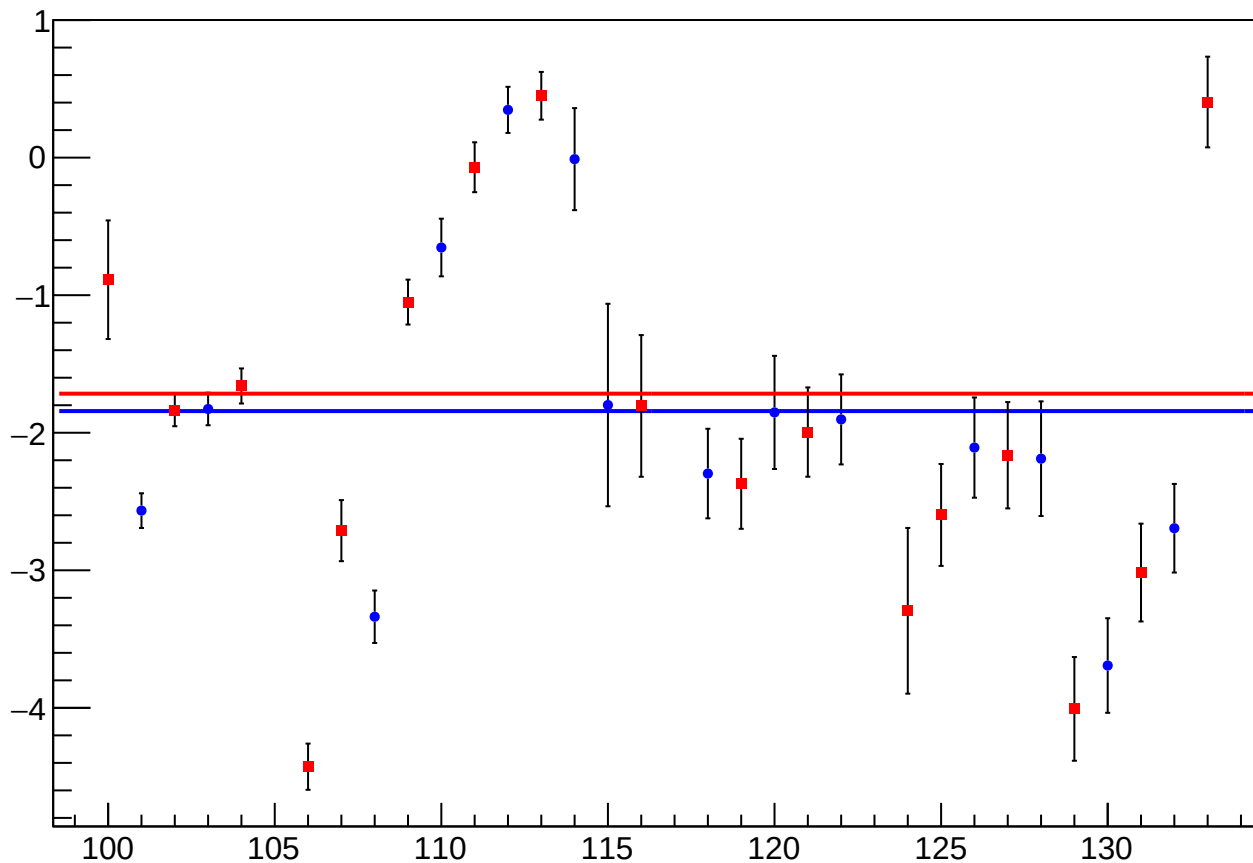
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 170.447+/-0.709  $\chi^2/\text{NDF}$ : 11814.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug



Right In:  $-1.843 \pm 0.059$   $\chi^2/\text{NDF}$ : 360.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.716 \pm 0.053$   $\chi^2/\text{NDF}$ : 650.9/16

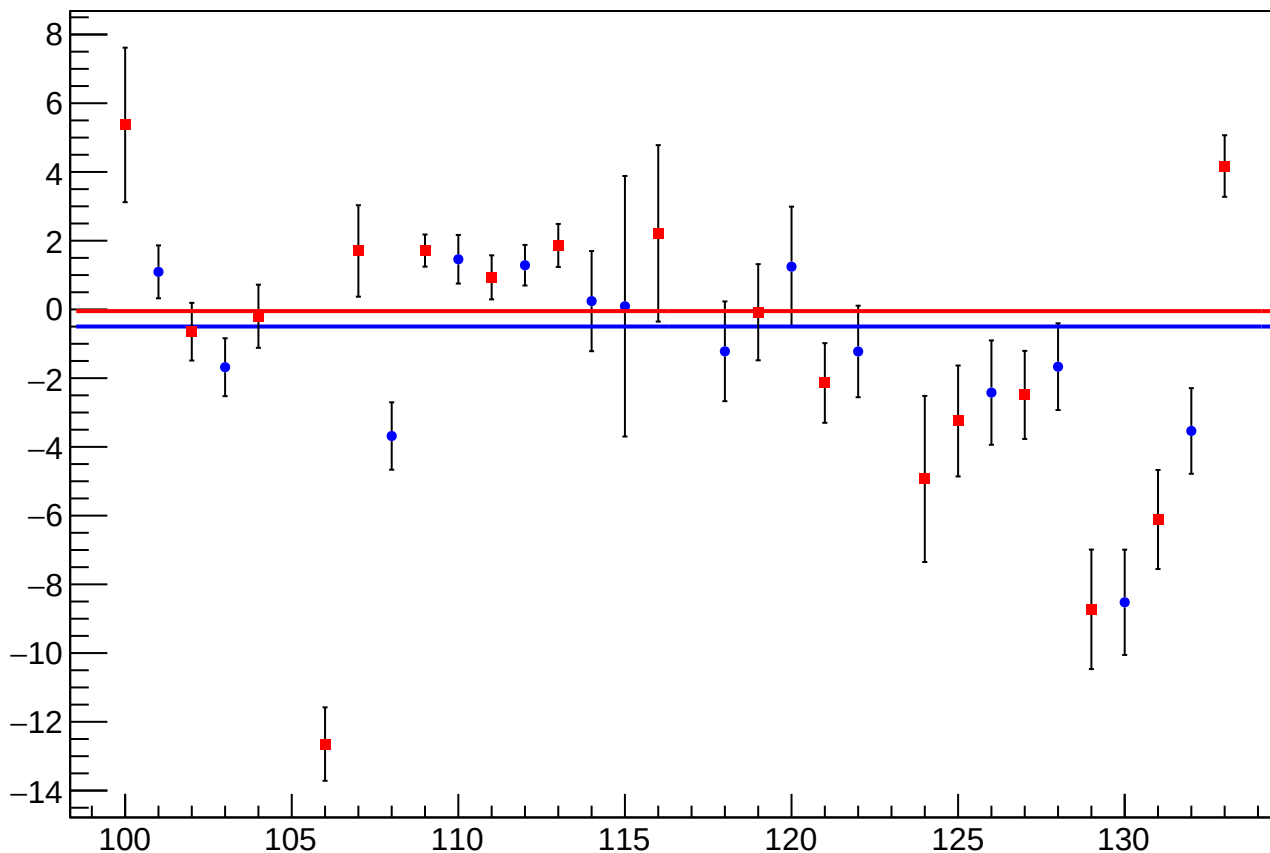
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.772 \pm 0.039$   $\chi^2/\text{NDF}$ : 1014.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_diff\_bpm1X\_slope vs Slug



Right In:  $-0.498 \pm 0.277$   $\chi^2/\text{NDF}$ : 71.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.049 \pm 0.233$   $\chi^2/\text{NDF}$ : 253.5/16

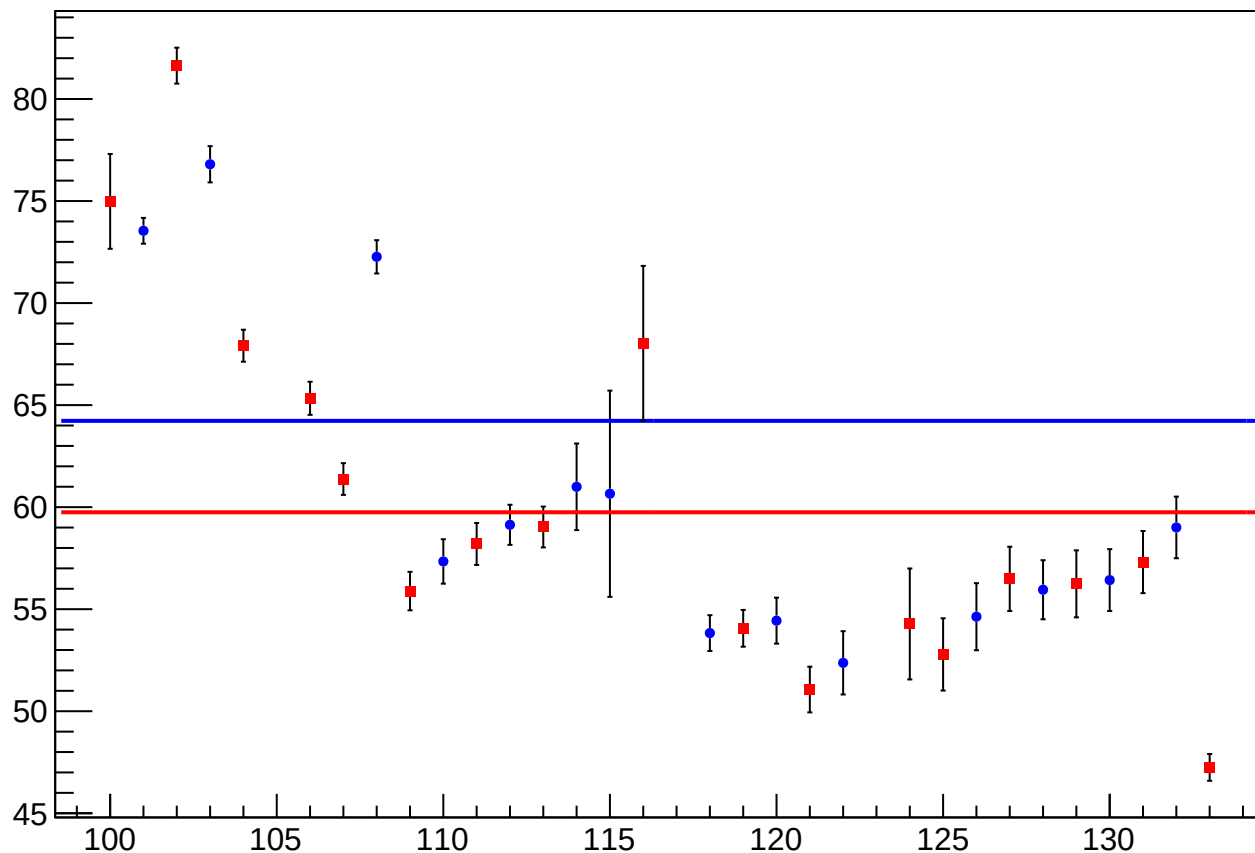
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.235 \pm 0.178$   $\chi^2/\text{NDF}$ : 326.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug



Right In:  $64.228 \pm 0.293$   $\chi^2/\text{NDF}: 964.6/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $59.749 \pm 0.255$   $\chi^2/\text{NDF}: 1340.3/16$

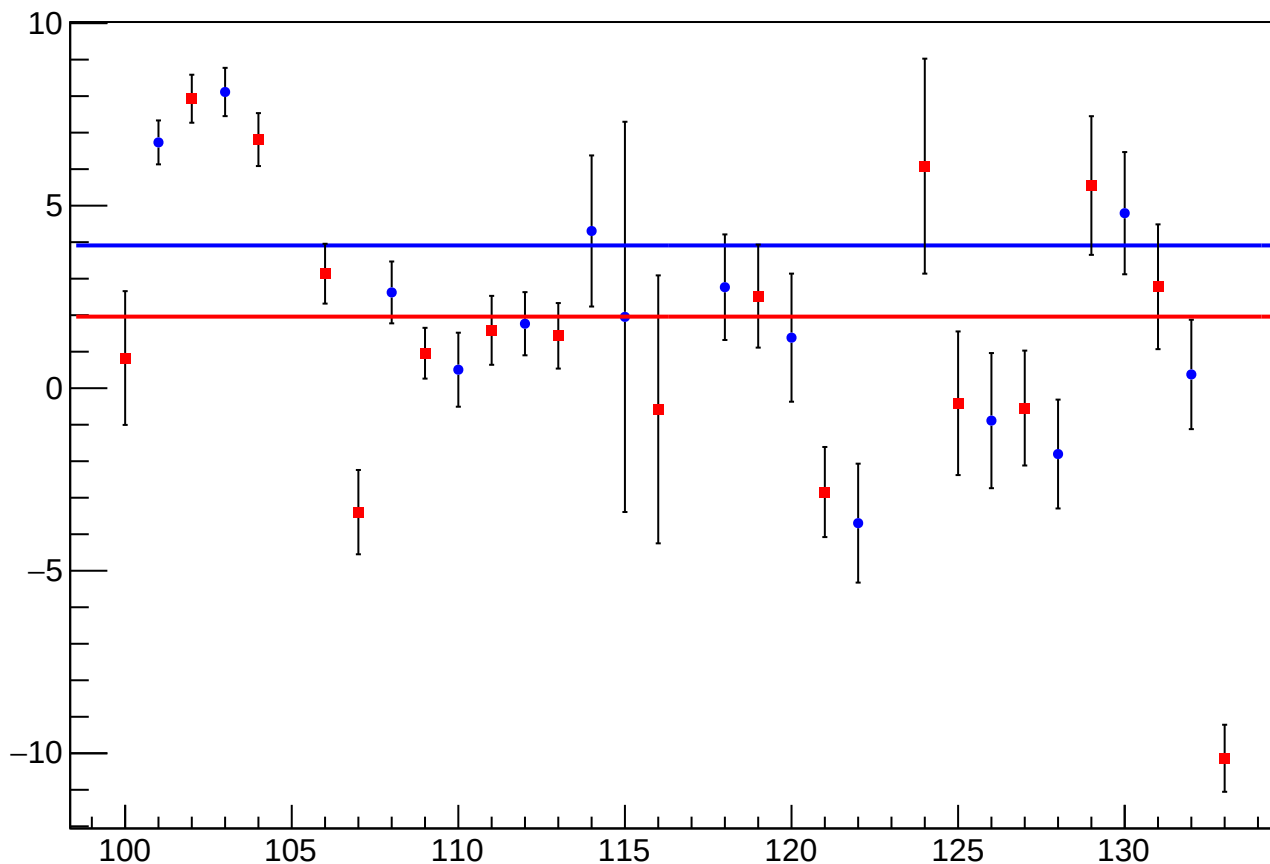
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $61.675 \pm 0.192$   $\chi^2/\text{NDF}: 2438.1/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug



Right In:  $3.910 \pm 0.292$   $\chi^2/\text{NDF}$ : 134.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1.961 \pm 0.258$   $\chi^2/\text{NDF}$ : 352.8/16

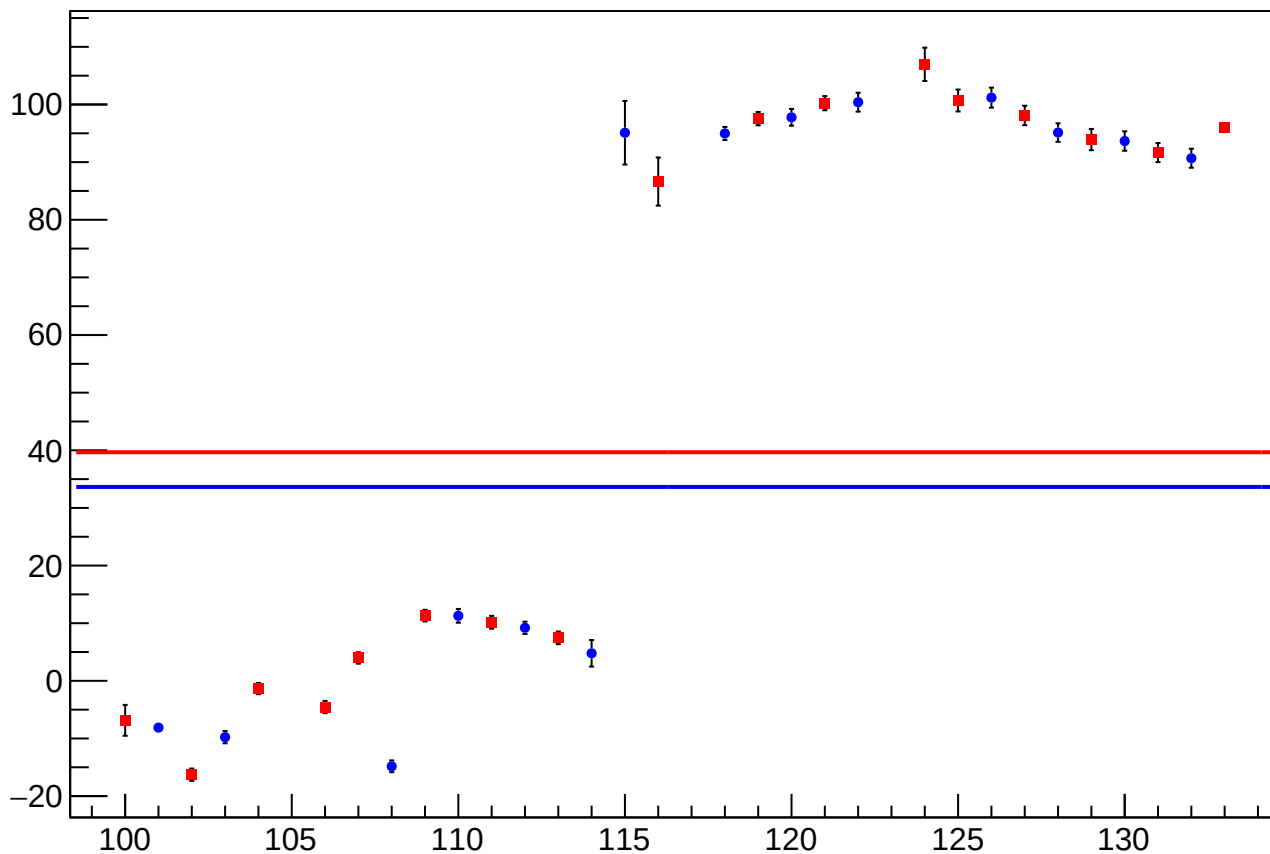
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $2.817 \pm 0.193$   $\chi^2/\text{NDF}$ : 511.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug



Right In: 33.645+/-0.348  $\chi^2/\text{NDF}$ : 19691.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.661+/-0.301  $\chi^2/\text{NDF}$ : 24779.9/16

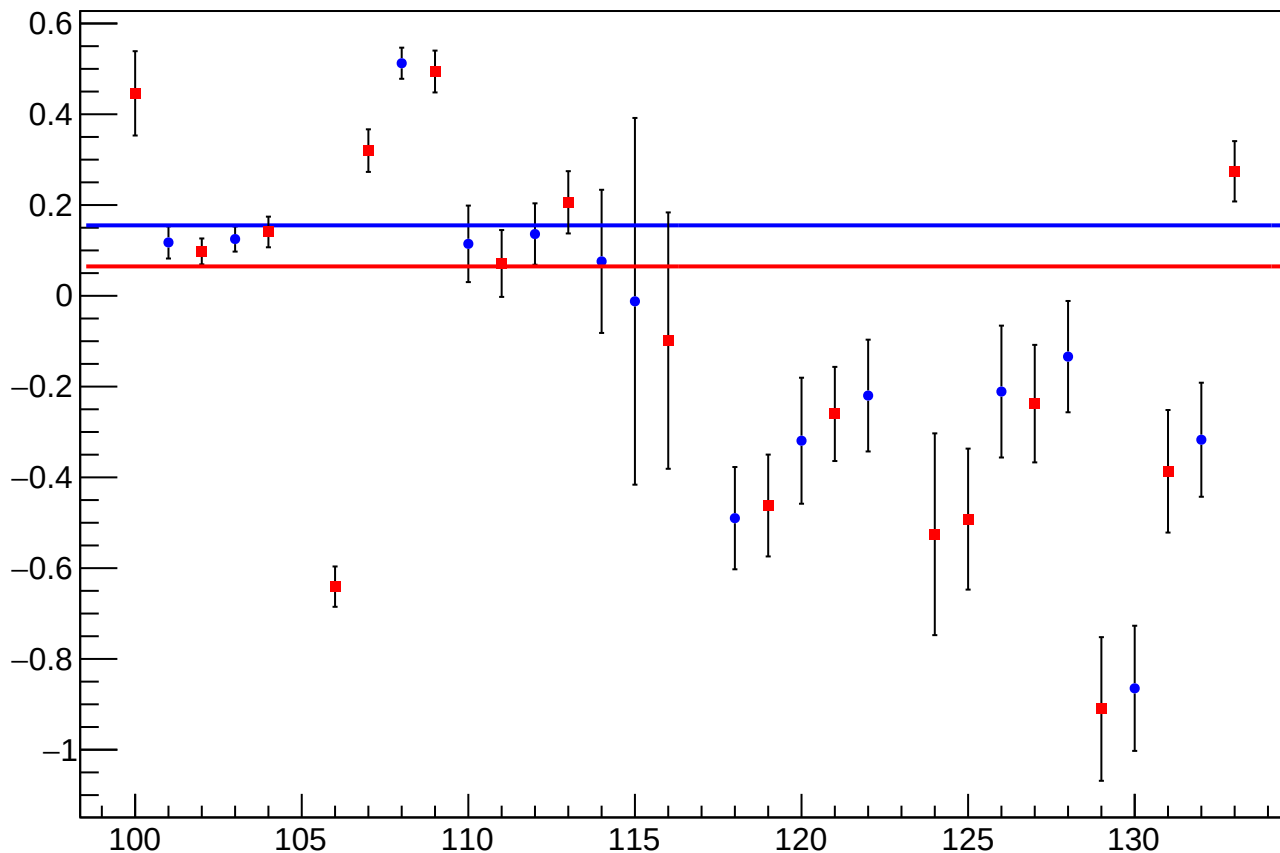
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.086+/-0.228  $\chi^2/\text{NDF}$ : 44641.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug



Right In: 0.155 $\pm$ 0.016  $\chi^2$ /NDF: 246.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.065 $\pm$ 0.015  $\chi^2$ /NDF: 512.5/16

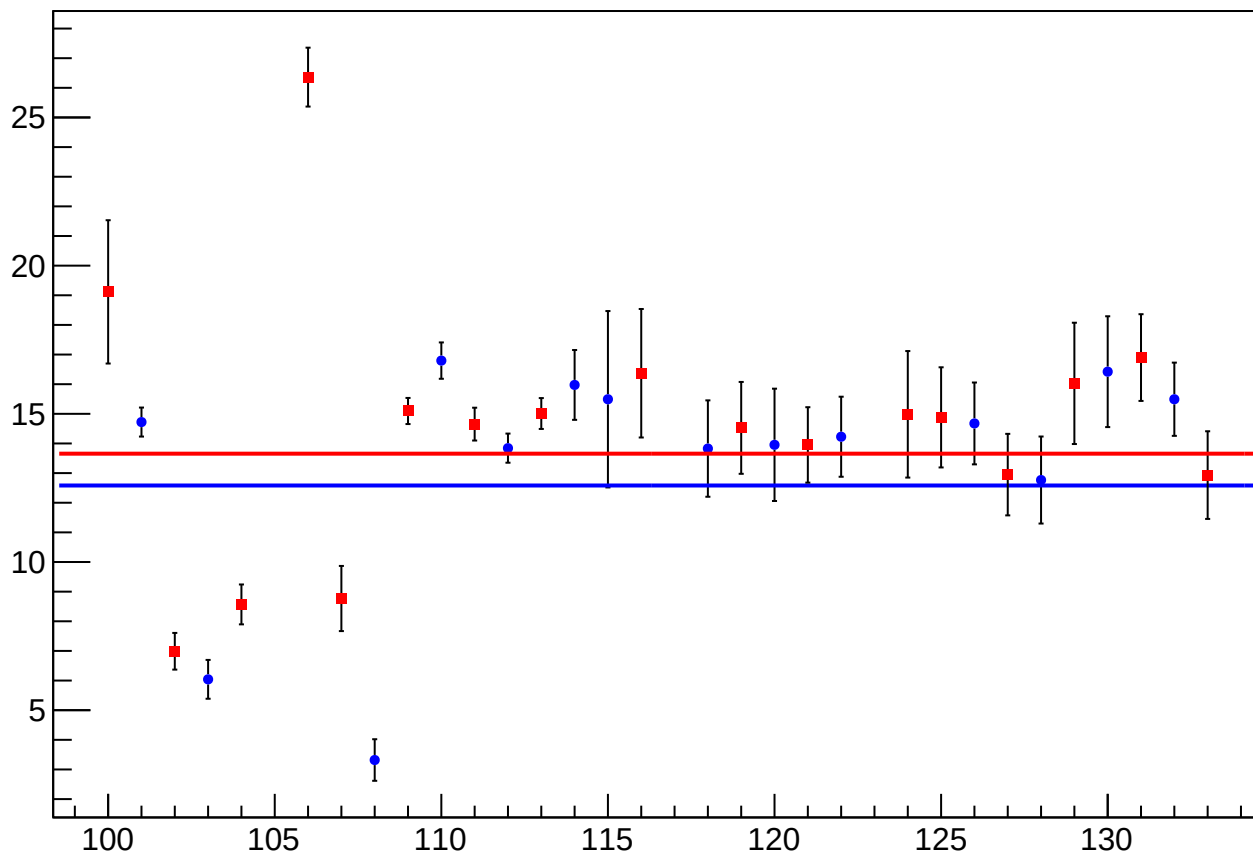
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.105 $\pm$ 0.011  $\chi^2$ /NDF: 775.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug



Right In: 12.582 $\pm$ 0.228  $\chi^2$ /NDF: 370.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13.655 $\pm$ 0.211  $\chi^2$ /NDF: 391.8/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

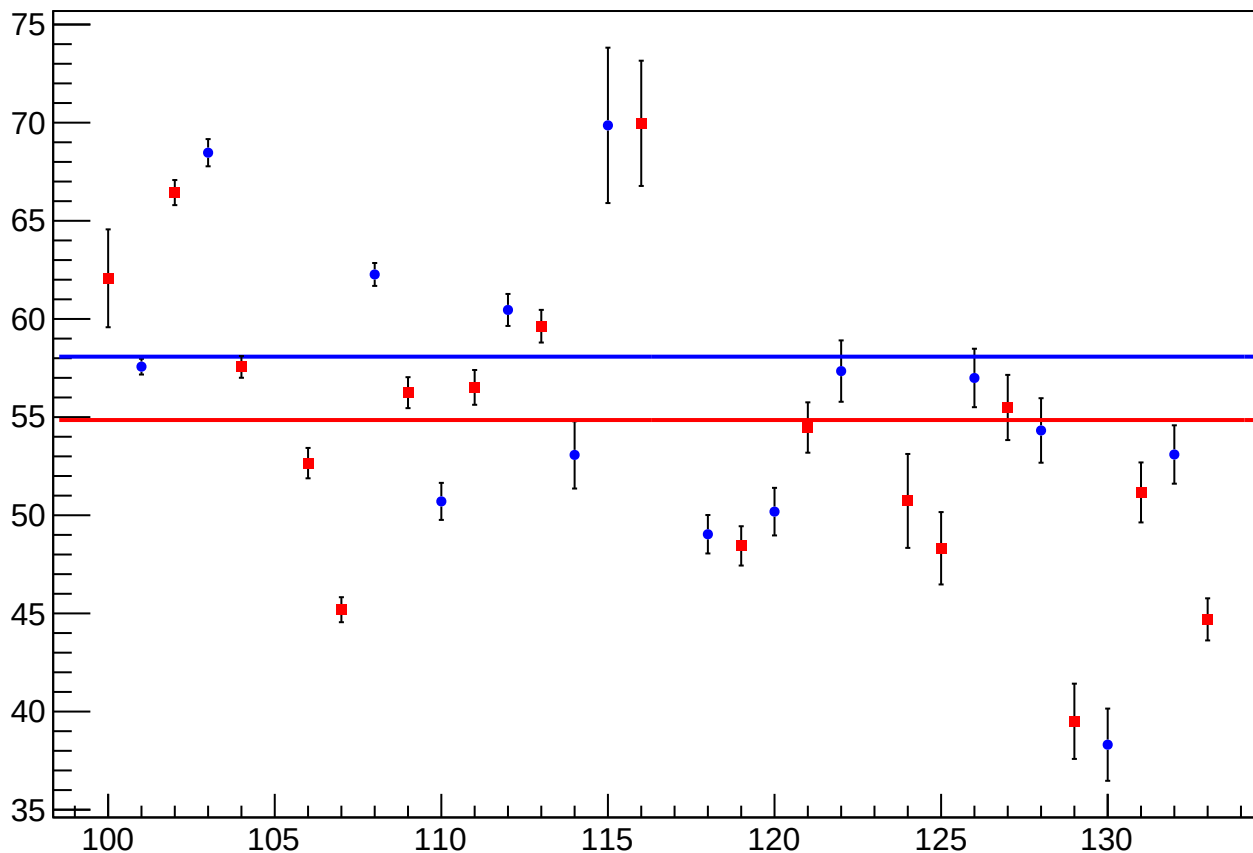
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 13.159 $\pm$ 0.155  $\chi^2$ /NDF: 774.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug



Right In: 58.080 $\pm$ 0.236  $\chi^2$ /NDF: 625.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.851 $\pm$ 0.233  $\chi^2$ /NDF: 877.5/16

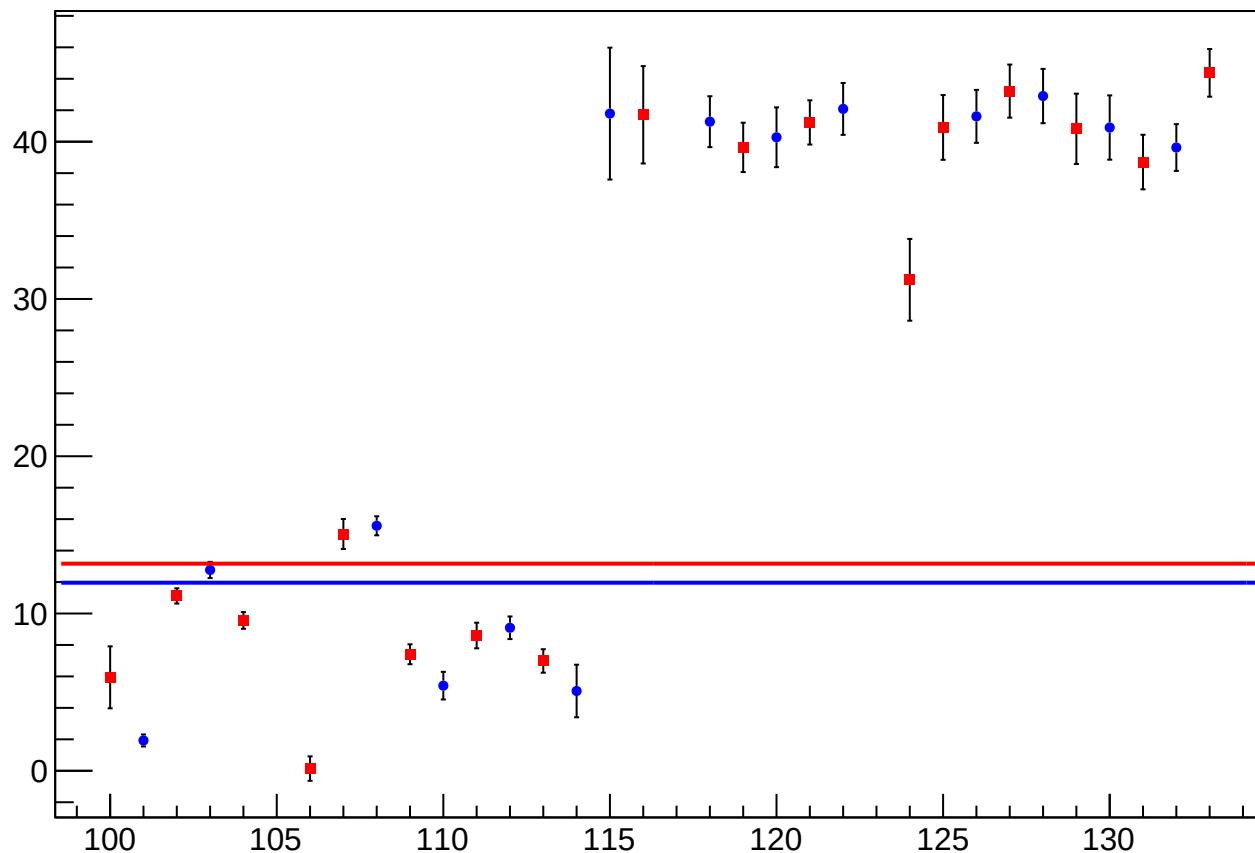
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.443 $\pm$ 0.166  $\chi^2$ /NDF: 1597.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug



Right In: 11.959 $\pm$ 0.227  $\chi^2$ /NDF: 2925.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13.169 $\pm$ 0.227  $\chi^2$ /NDF: 2654.2/16

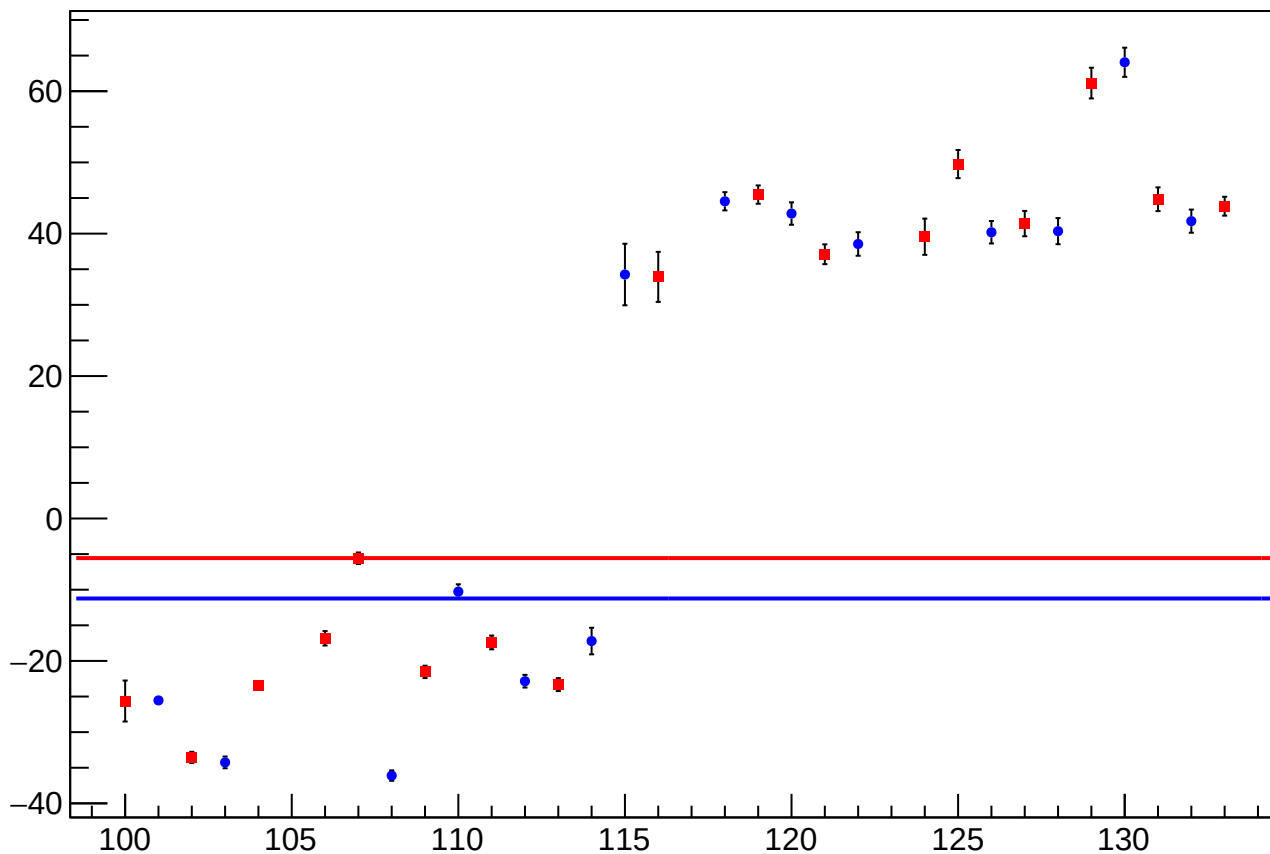
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12.564 $\pm$ 0.161  $\chi^2$ /NDF: 5593.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug



Right In:  $-11.235 \pm 0.284$   $\chi^2/\text{NDF}$ : 11256.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-5.560 \pm 0.277$   $\chi^2/\text{NDF}$ : 10706.9/16

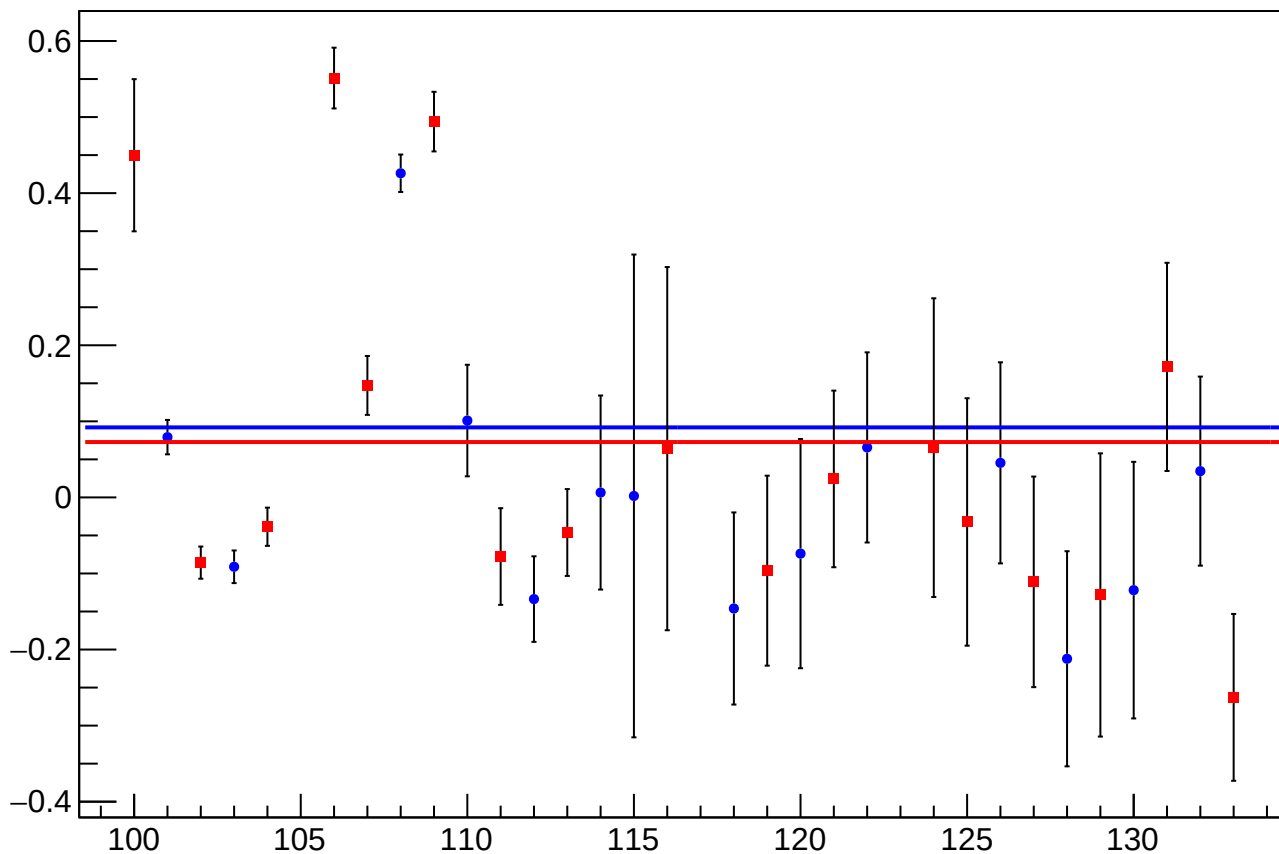
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-8.328 \pm 0.198$   $\chi^2/\text{NDF}$ : 22168.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug



Right In: 0.092 $\pm$ 0.012  $\chi^2$ /NDF: 285.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.073 $\pm$ 0.012  $\chi^2$ /NDF: 378.0/16

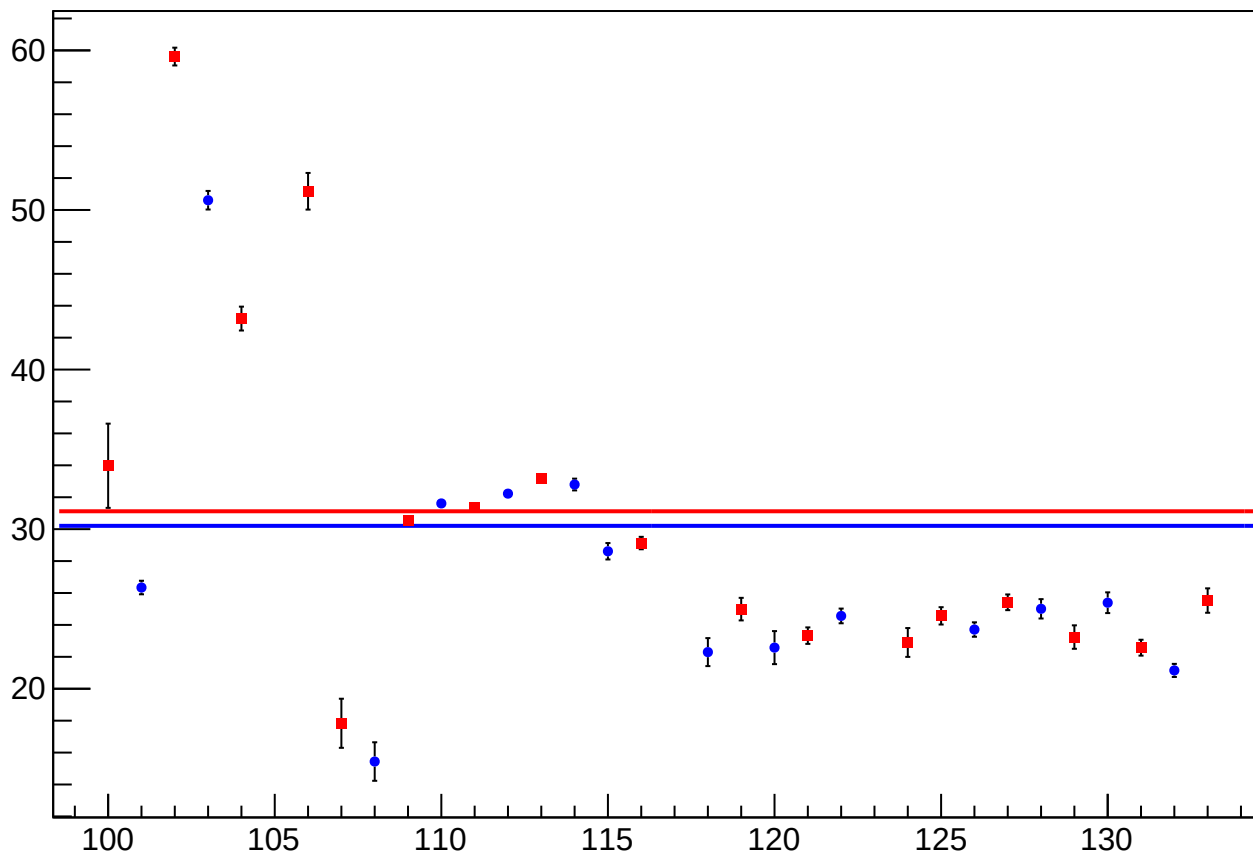
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.082 $\pm$ 0.009  $\chi^2$ /NDF: 665.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug



Right In: 30.207 $\pm$ 0.097  $\chi^2$ /NDF: 2835.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 31.120 $\pm$ 0.082  $\chi^2$ /NDF: 4560.8/16

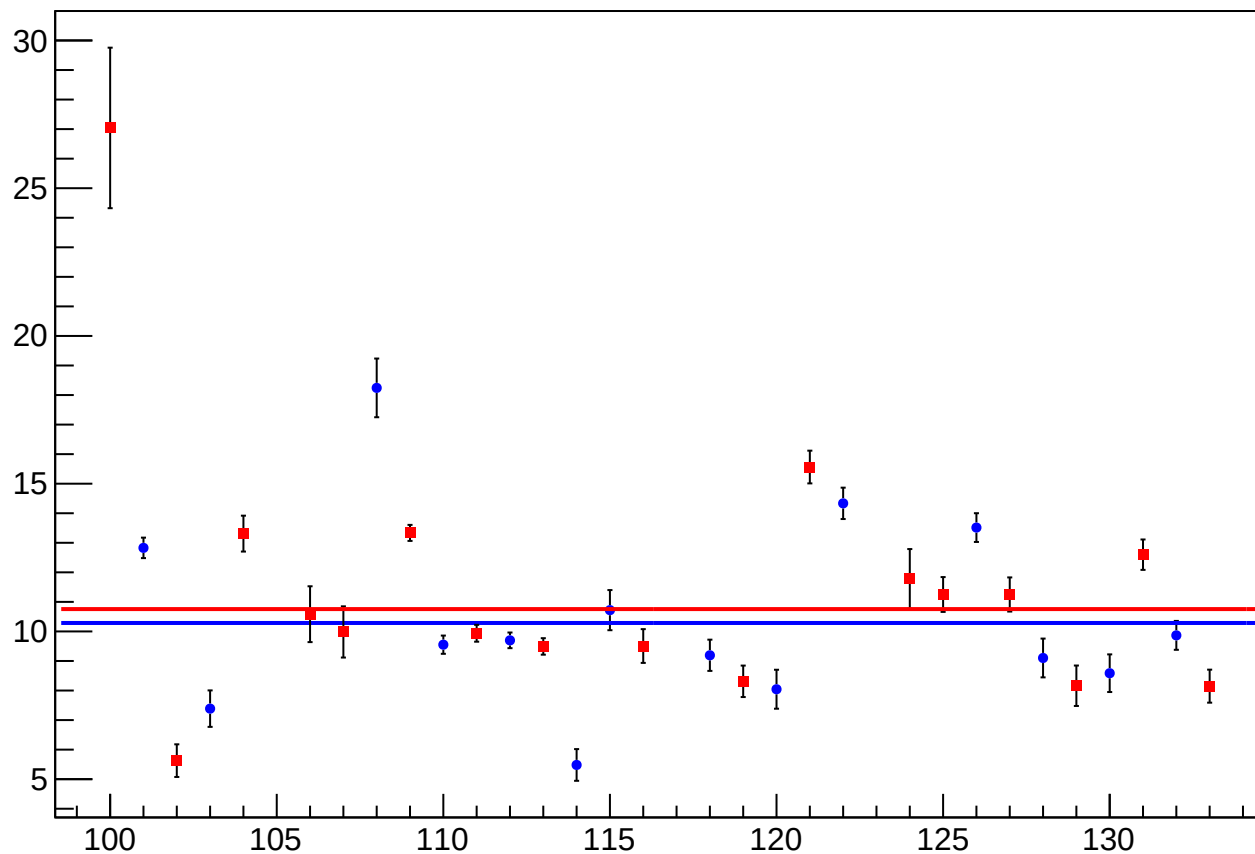
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 30.740 $\pm$ 0.062  $\chi^2$ /NDF: 7447.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug



Right In: 10.286 $\pm$ 0.124  $\chi^2$ /NDF: 360.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.756 $\pm$ 0.117  $\chi^2$ /NDF: 412.3/16

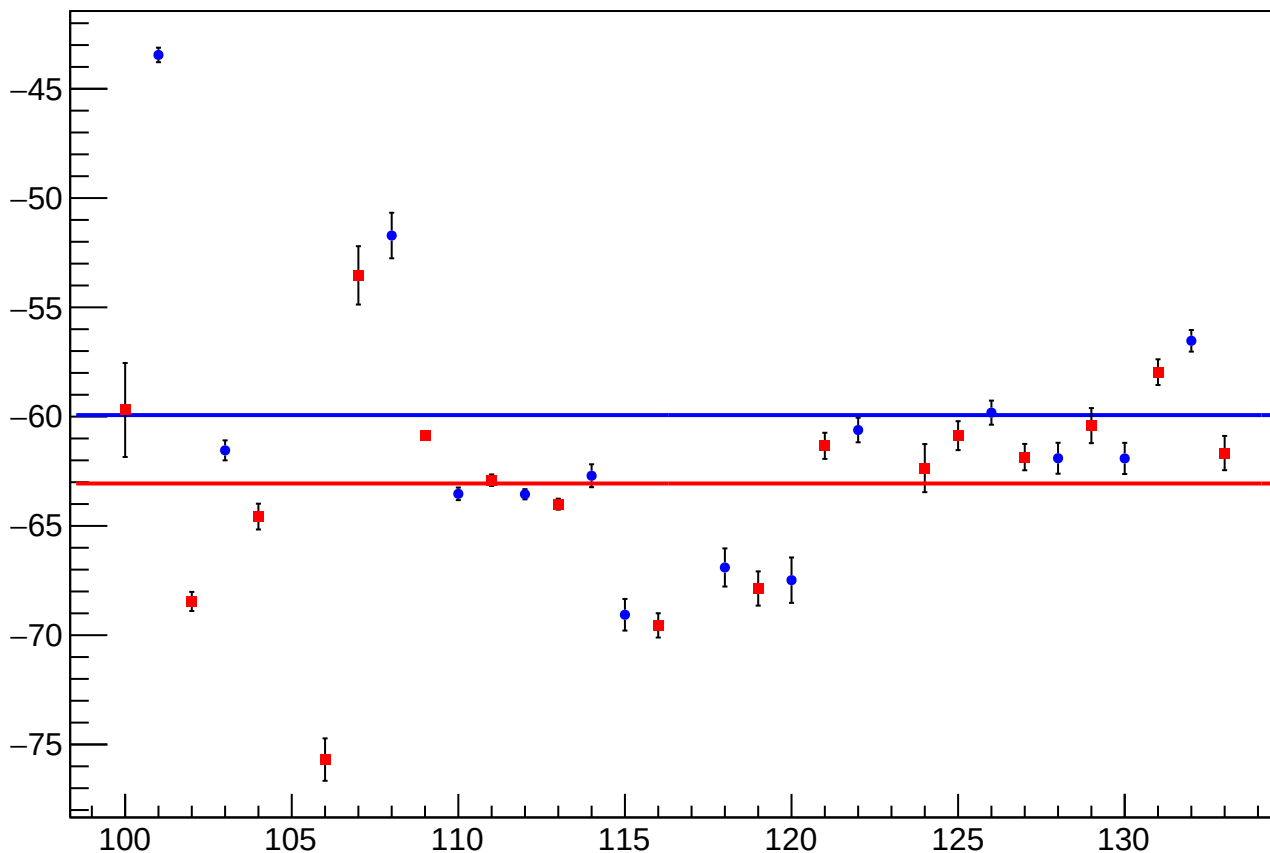
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.535 $\pm$ 0.085  $\chi^2$ /NDF: 780.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug



Right In:  $-59.930 \pm 0.122$   $\chi^2/\text{NDF}$ : 3293.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-63.059 \pm 0.111$   $\chi^2/\text{NDF}$ : 787.1/16

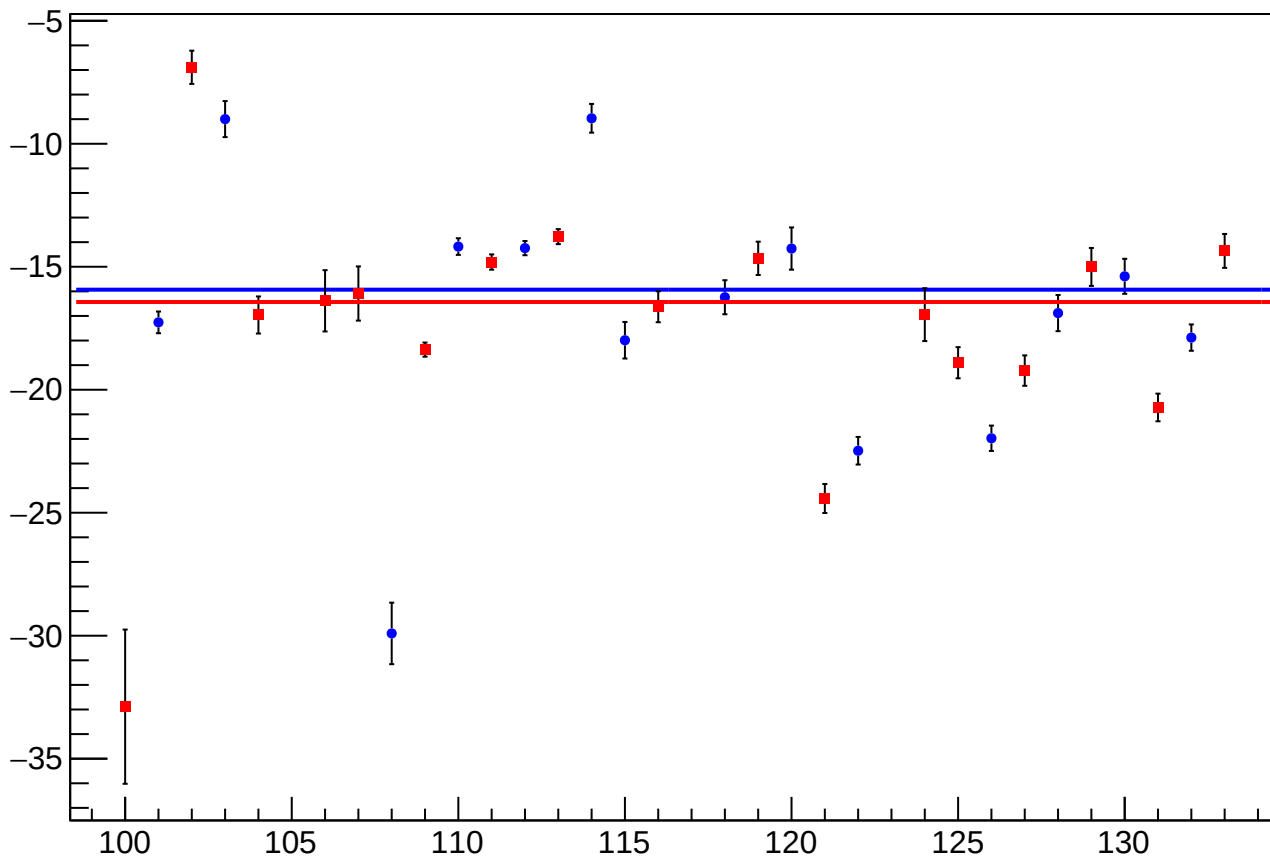
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-61.641 \pm 0.082$   $\chi^2/\text{NDF}$ : 4441.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug



Right In:  $-15.932 \pm 0.140$   $\chi^2/\text{NDF}$ : 727.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-16.432 \pm 0.130$   $\chi^2/\text{NDF}$ : 673.1/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

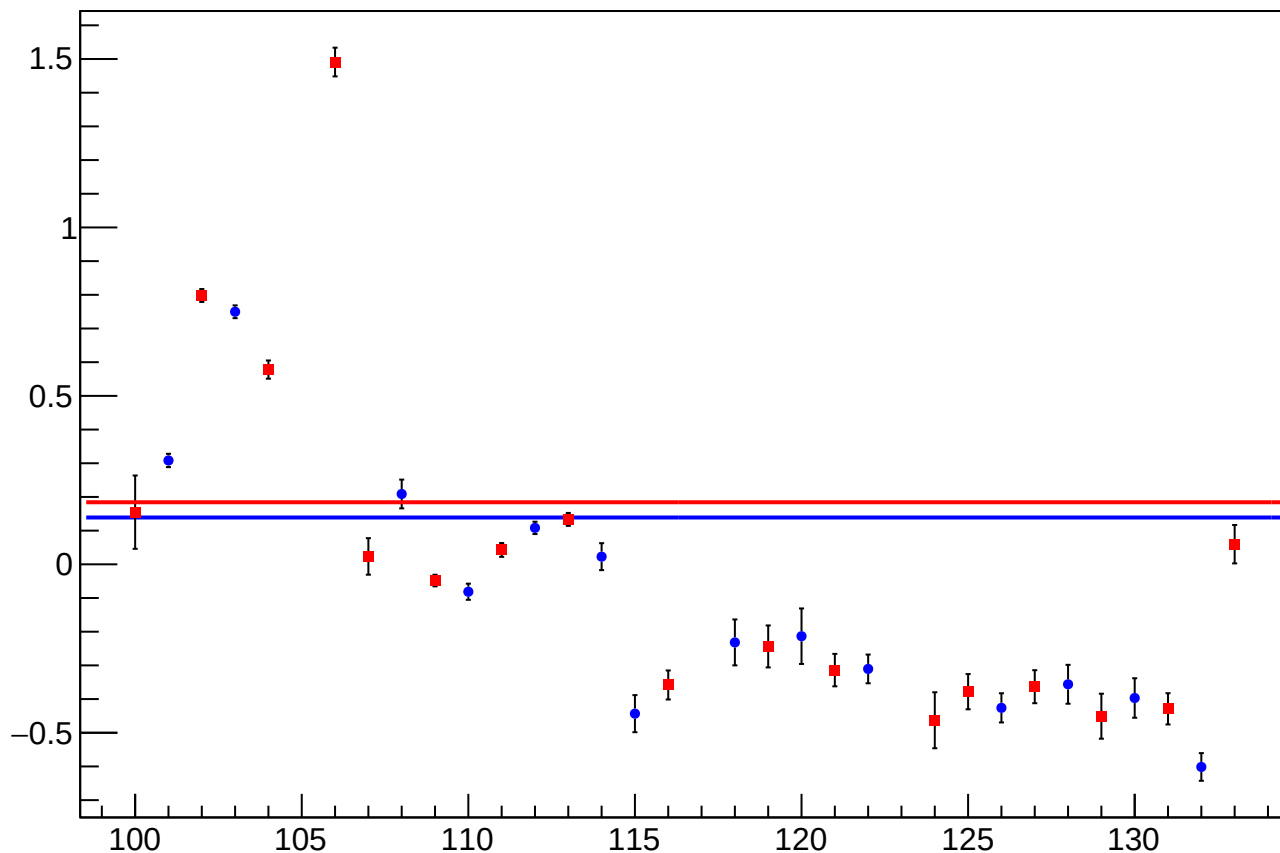
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-16.201 \pm 0.095$   $\chi^2/\text{NDF}$ : 1407.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug



Right In: 0.139 $\pm$ 0.008  $\chi^2$ /NDF: 2128.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.184 $\pm$ 0.008  $\chi^2$ /NDF: 3303.9/16

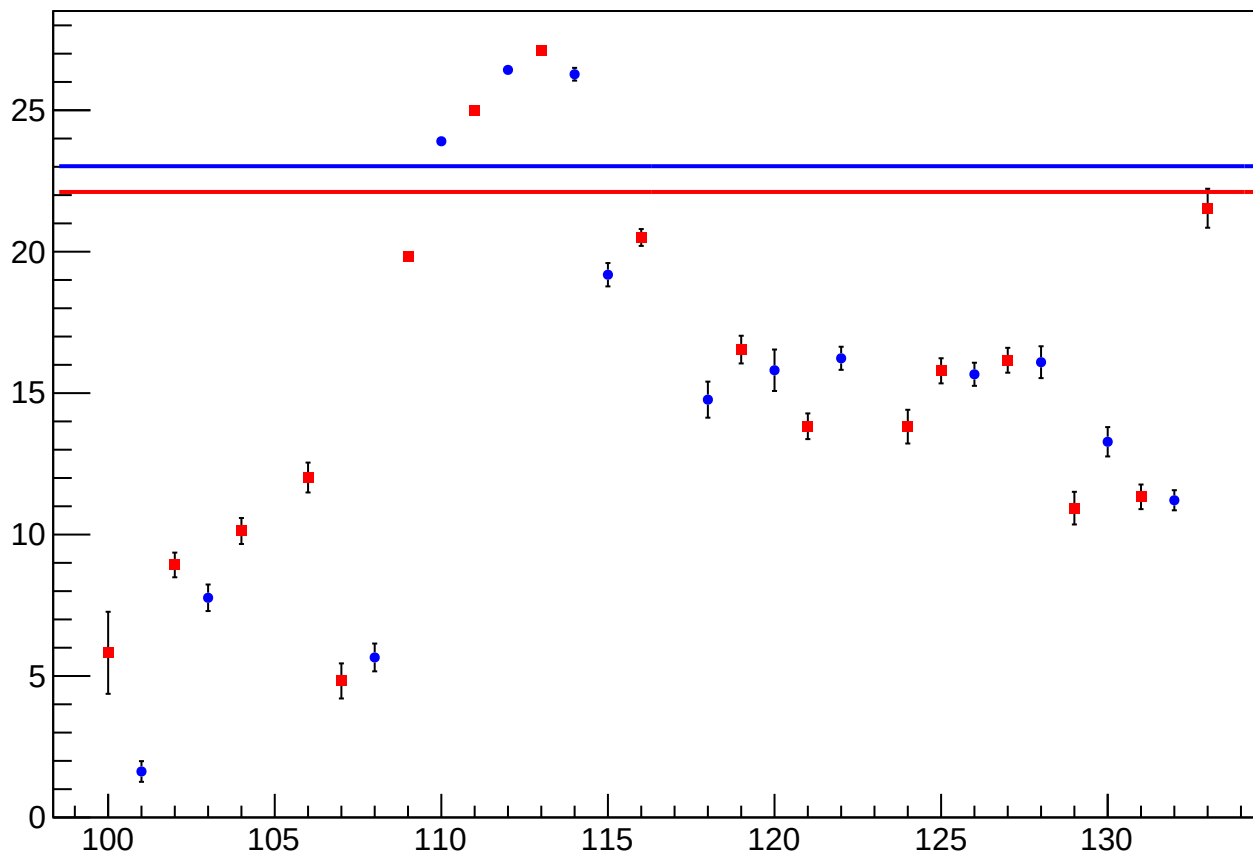
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.163 $\pm$ 0.006  $\chi^2$ /NDF: 5447.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug



Right In: 23.022 $\pm$ 0.058  $\chi^2$ /NDF: 10106.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 22.111 $\pm$ 0.047  $\chi^2$ /NDF: 9368.9/16

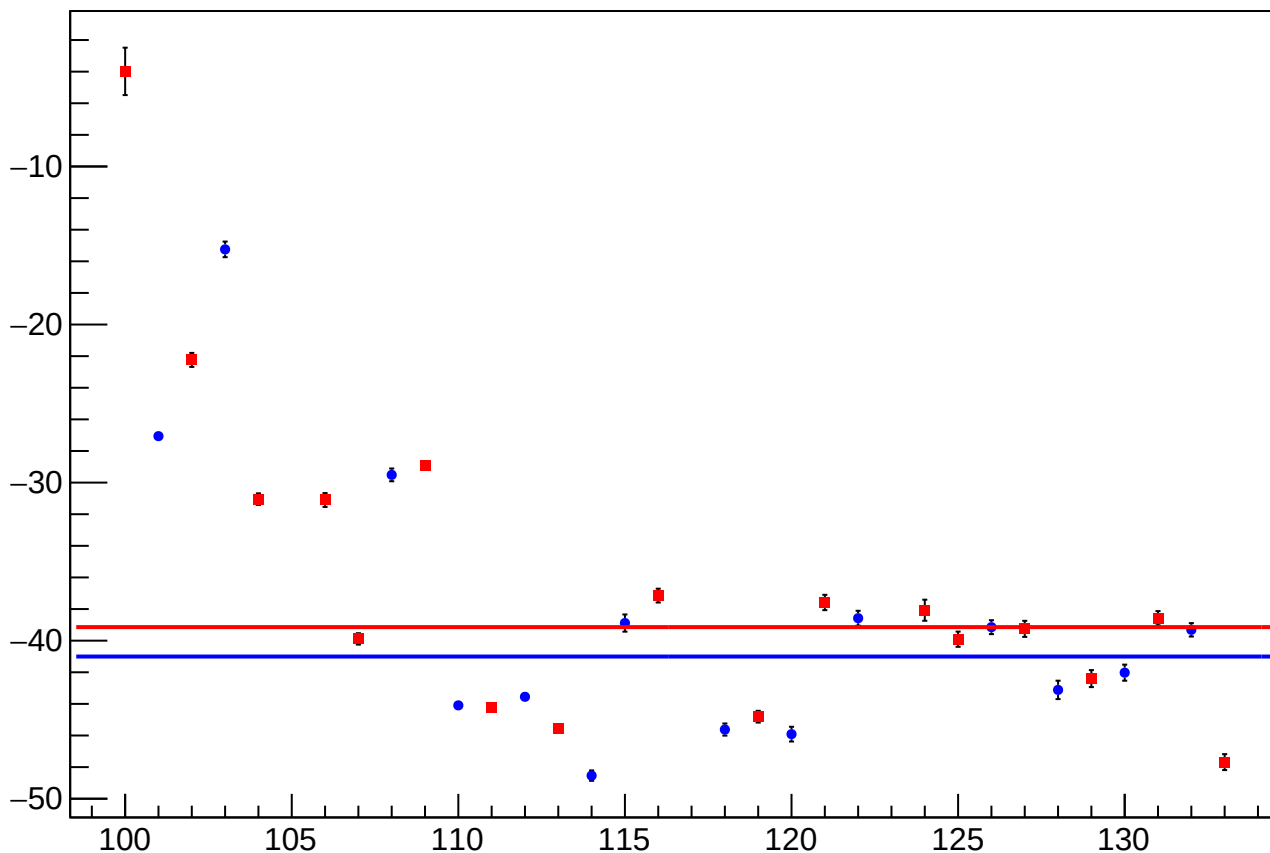
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 22.468 $\pm$ 0.037  $\chi^2$ /NDF: 19623.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug



Right In:  $-41.004 \pm 0.081$   $\chi^2/\text{NDF}$ : 7251.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-39.143 \pm 0.073$   $\chi^2/\text{NDF}$ : 10022.5/16

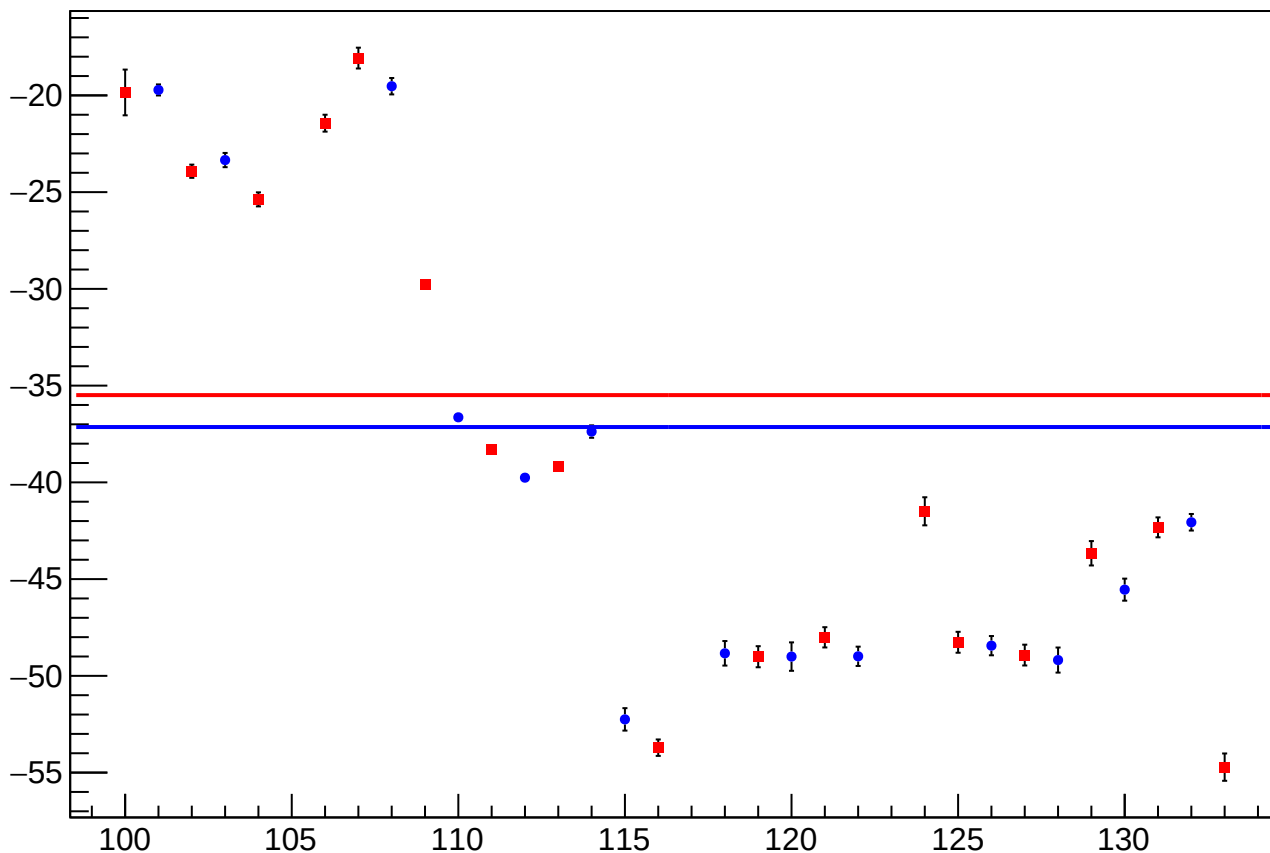
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-39.974 \pm 0.054$   $\chi^2/\text{NDF}$ : 17565.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug



Right In:  $-37.140 \pm 0.078$   $\chi^2/\text{NDF}$ : 10329.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-35.490 \pm 0.066$   $\chi^2/\text{NDF}$ : 12957.2/16

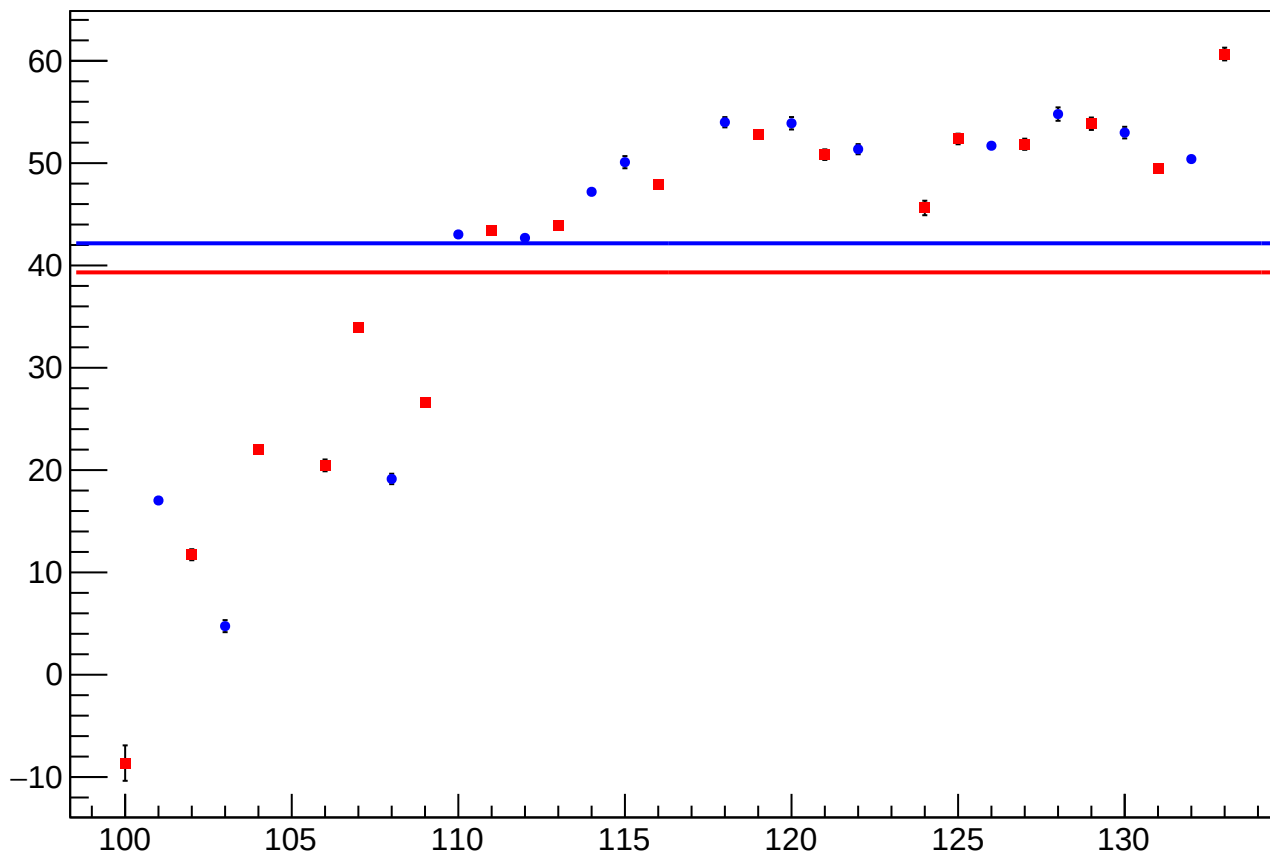
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-36.178 \pm 0.050$   $\chi^2/\text{NDF}$ : 23550.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug



Right In: 42.165+/-0.091  $\chi^2/\text{NDF}$ : 13614.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39.323+/-0.080  $\chi^2/\text{NDF}$ : 17848.6/16

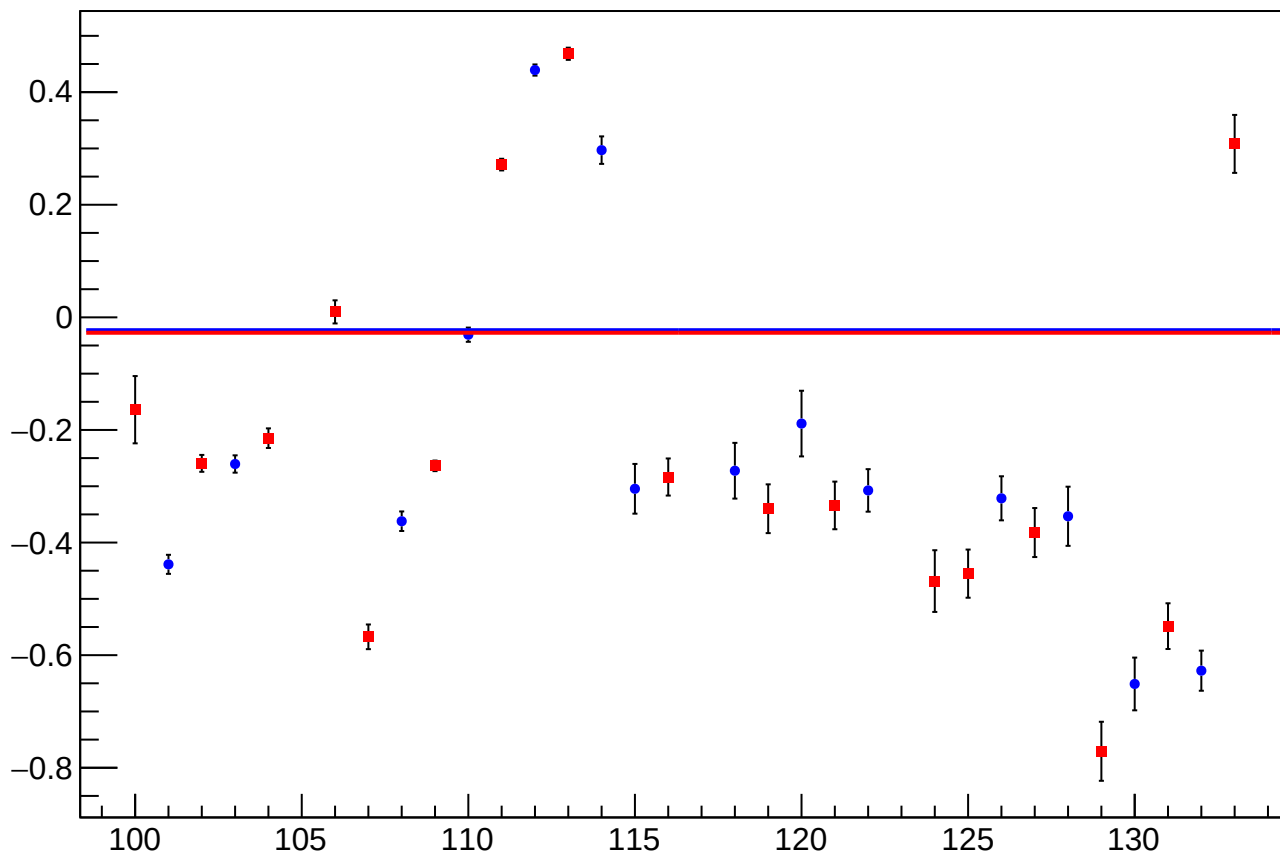
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.570+/-0.060  $\chi^2/\text{NDF}$ : 32011.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug



Right In: -0.023+/-0.005  $\chi^2$ /NDF: 4251.5/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.027+/-0.005  $\chi^2$ /NDF: 5333.2/16

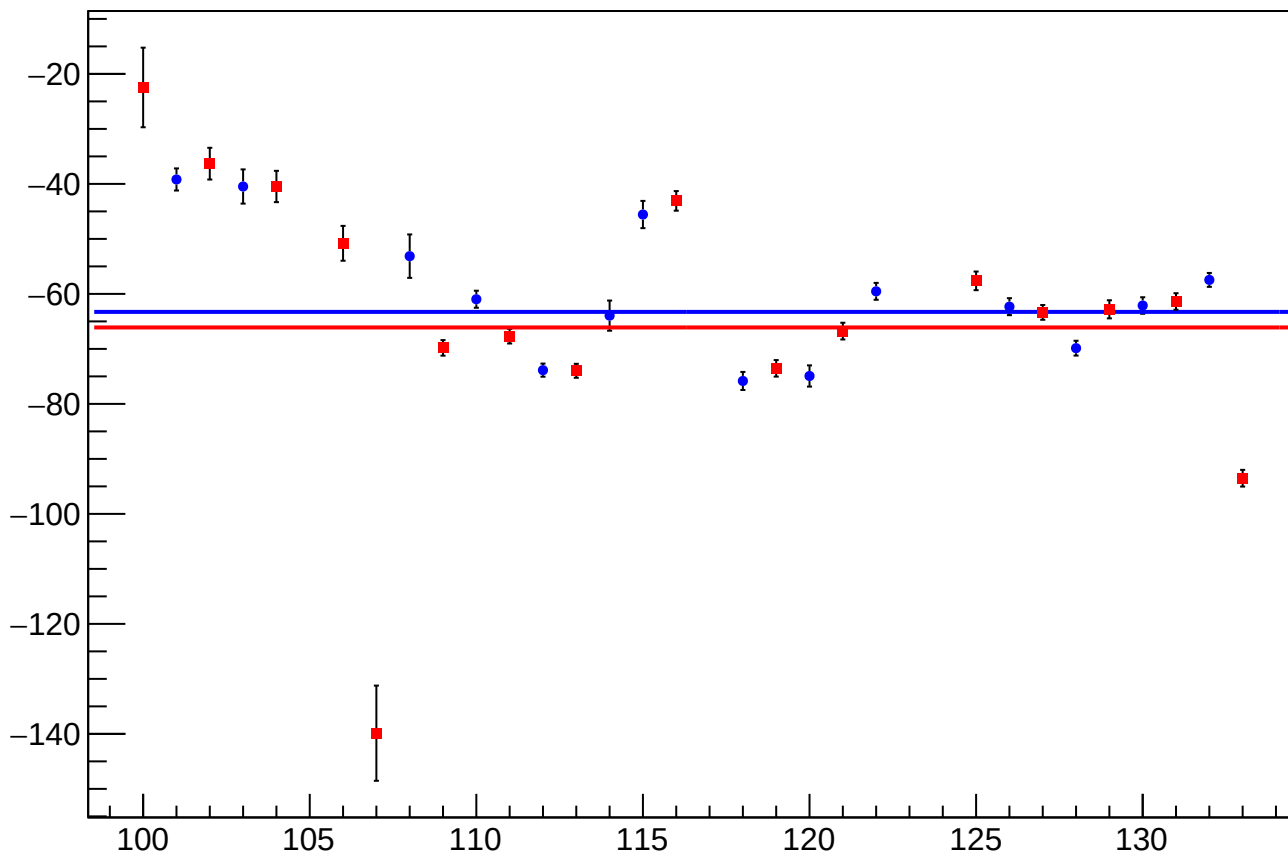
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.025+/-0.004  $\chi^2$ /NDF: 9585.1/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug



Right In:  $-63.272 \pm 0.450$   $\chi^2/\text{NDF}$ : 482.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-66.101 \pm 0.430$   $\chi^2/\text{NDF}$ : 927.4/15

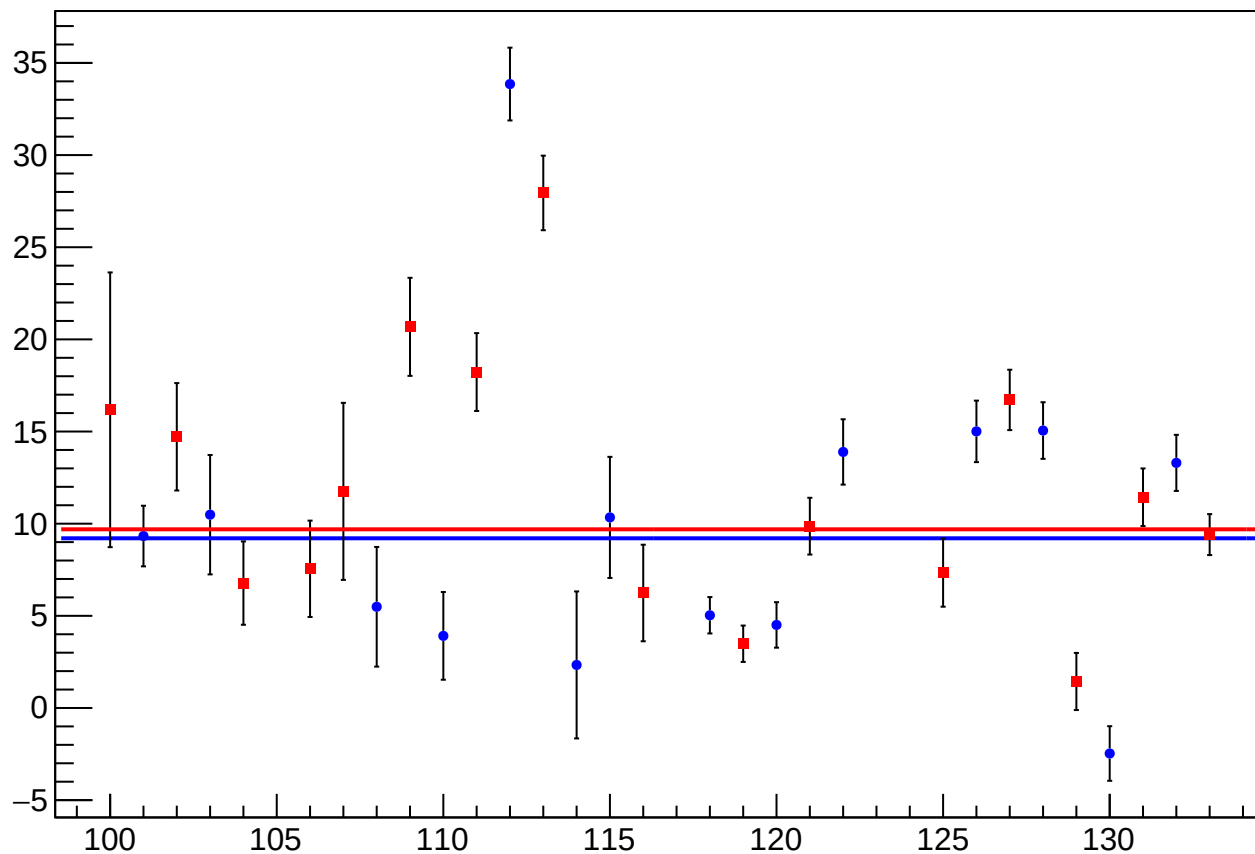
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-64.752 \pm 0.311$   $\chi^2/\text{NDF}$ : 1430.9/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug



Right In: 9.207+/-0.455  $\chi^2/\text{NDF}$ : 300.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9.694+/-0.446  $\chi^2/\text{NDF}$ : 212.1/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

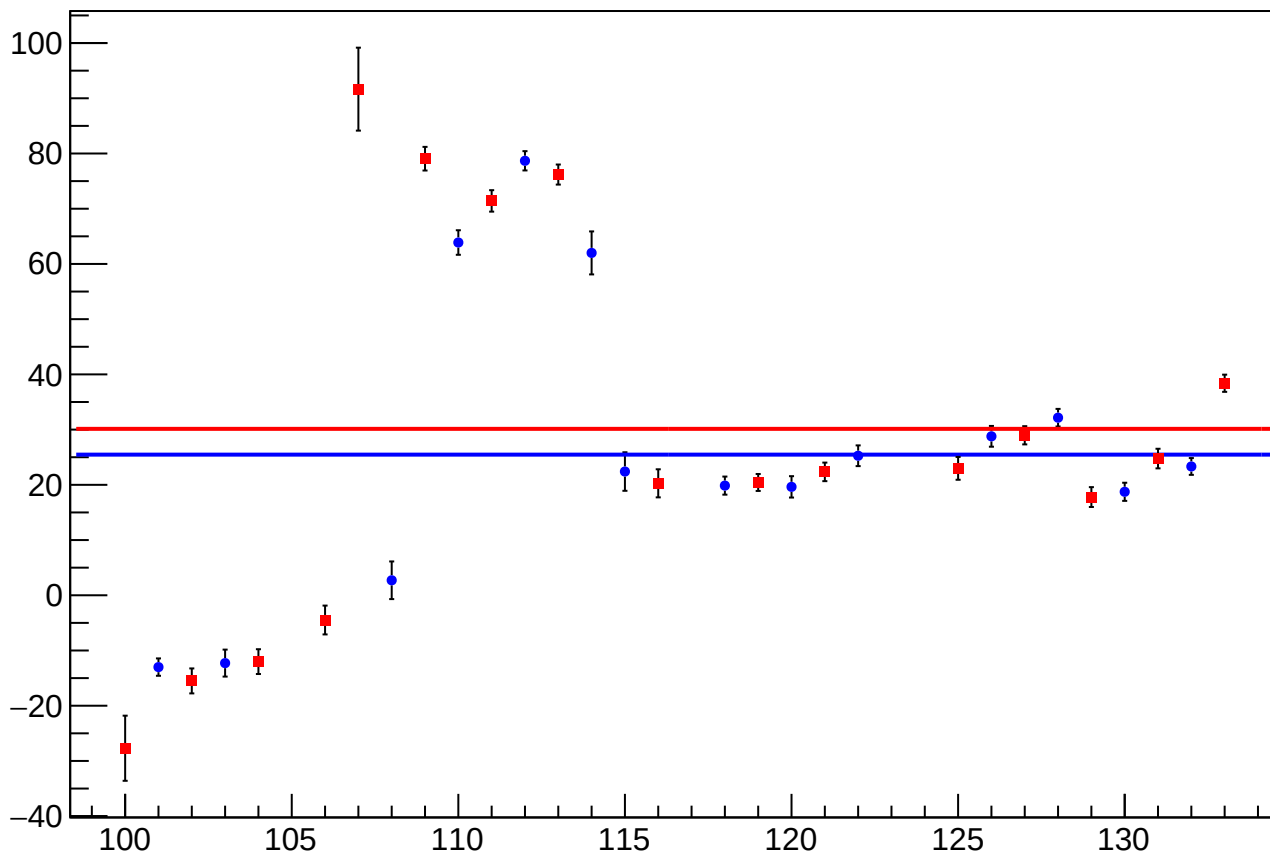
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.456+/-0.319  $\chi^2/\text{NDF}$ : 513.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug



Right In: 25.468+/-0.517  $\chi^2/\text{NDF}$ : 2258.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30.137+/-0.503  $\chi^2/\text{NDF}$ : 2889.9/15

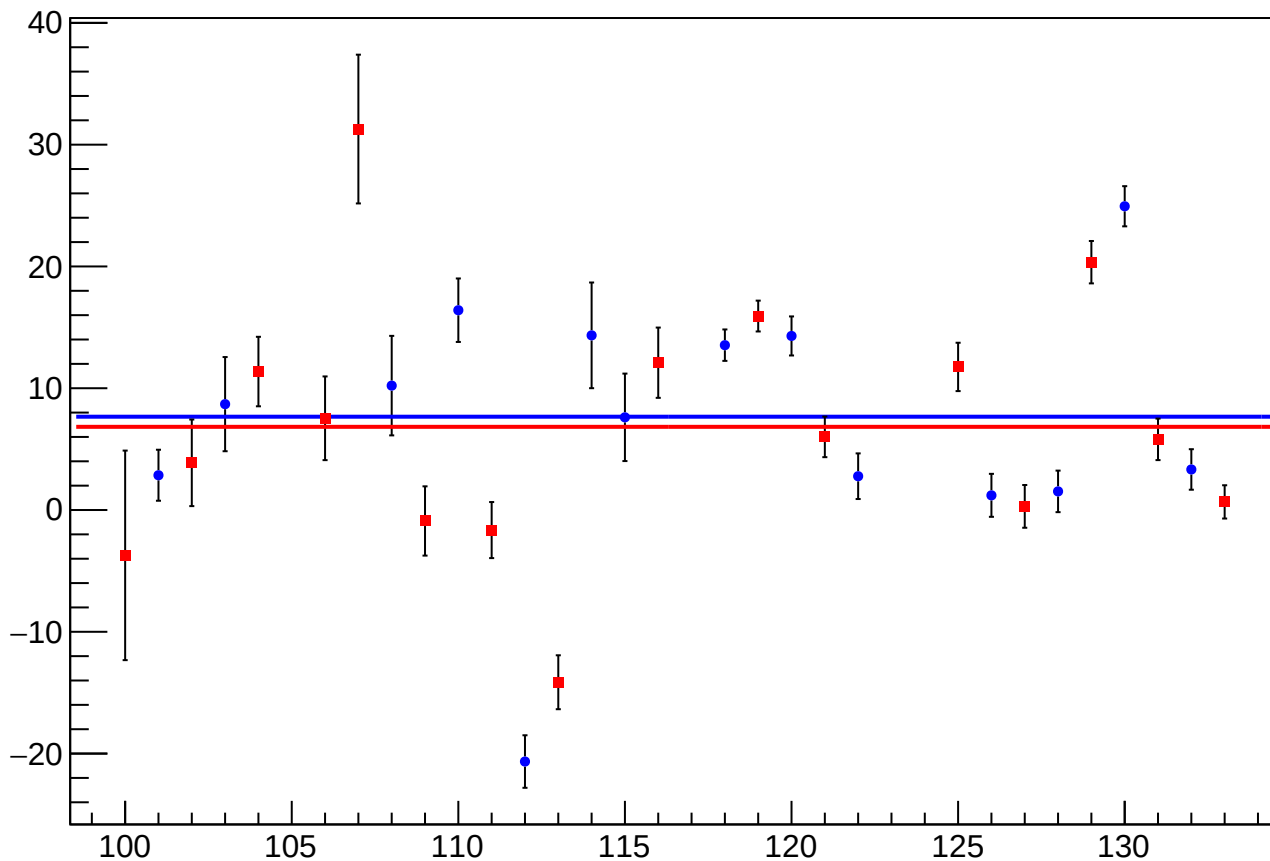
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.866+/-0.361  $\chi^2/\text{NDF}$ : 5190.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug



Right In: 7.662 $\pm$ 0.533  $\chi^2$ /NDF: 379.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6.831 $\pm$ 0.517  $\chi^2$ /NDF: 287.7/15

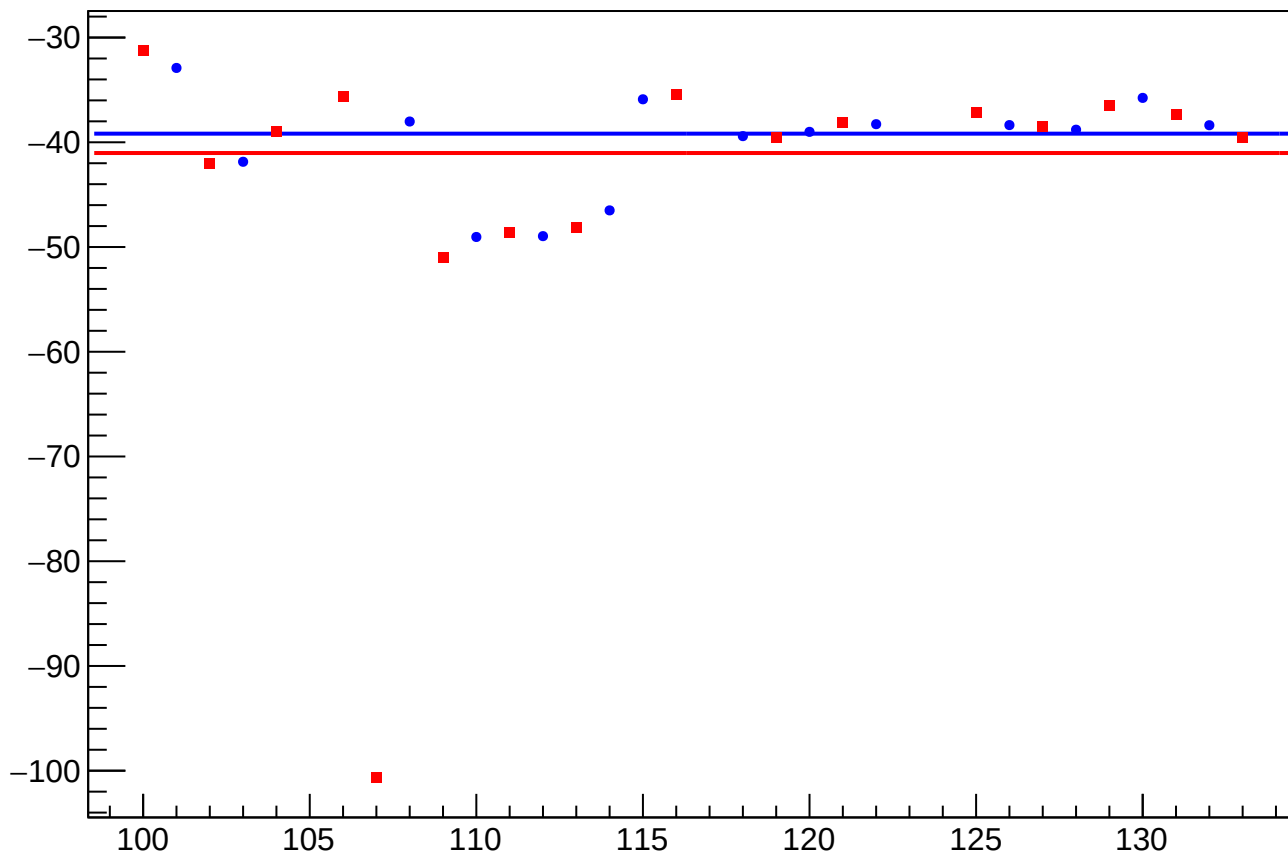
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.234 $\pm$ 0.371  $\chi^2$ /NDF: 668.3/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug



Right In: -39.176 $\pm$ 0.037  $\chi^2$ /NDF: 14751.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -41.025 $\pm$ 0.035  $\chi^2$ /NDF: 54848.5/15

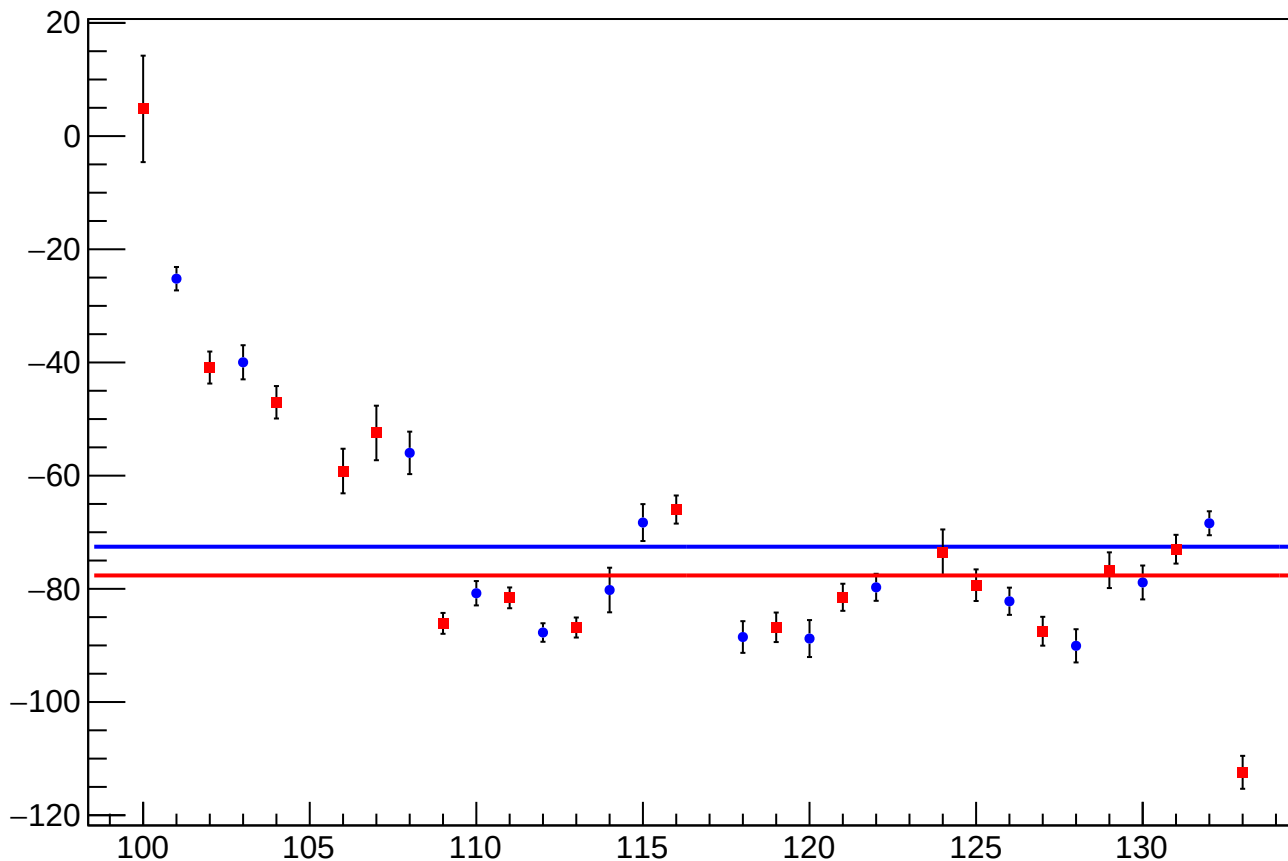
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -40.148 $\pm$ 0.025  $\chi^2$ /NDF: 70934.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug



Right In: -72.555+/-0.677  $\chi^2/\text{NDF}$ : 892.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -77.635+/-0.636  $\chi^2/\text{NDF}$ : 660.8/16

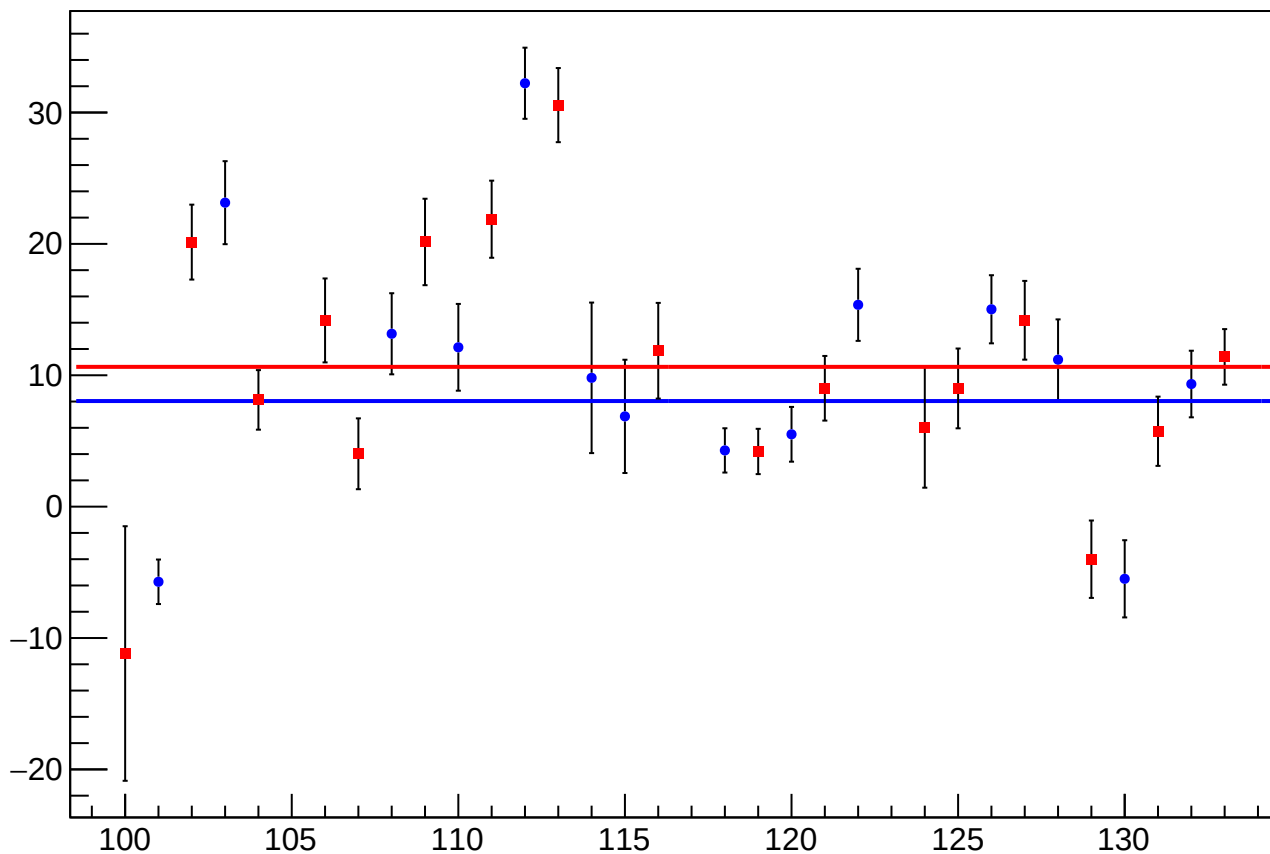
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -75.254+/-0.463  $\chi^2/\text{NDF}$ : 1582.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug



Right In:  $8.038 \pm 0.689$   $\chi^2/\text{NDF}$ : 216.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $10.640 \pm 0.670$   $\chi^2/\text{NDF}$ : 143.0/16

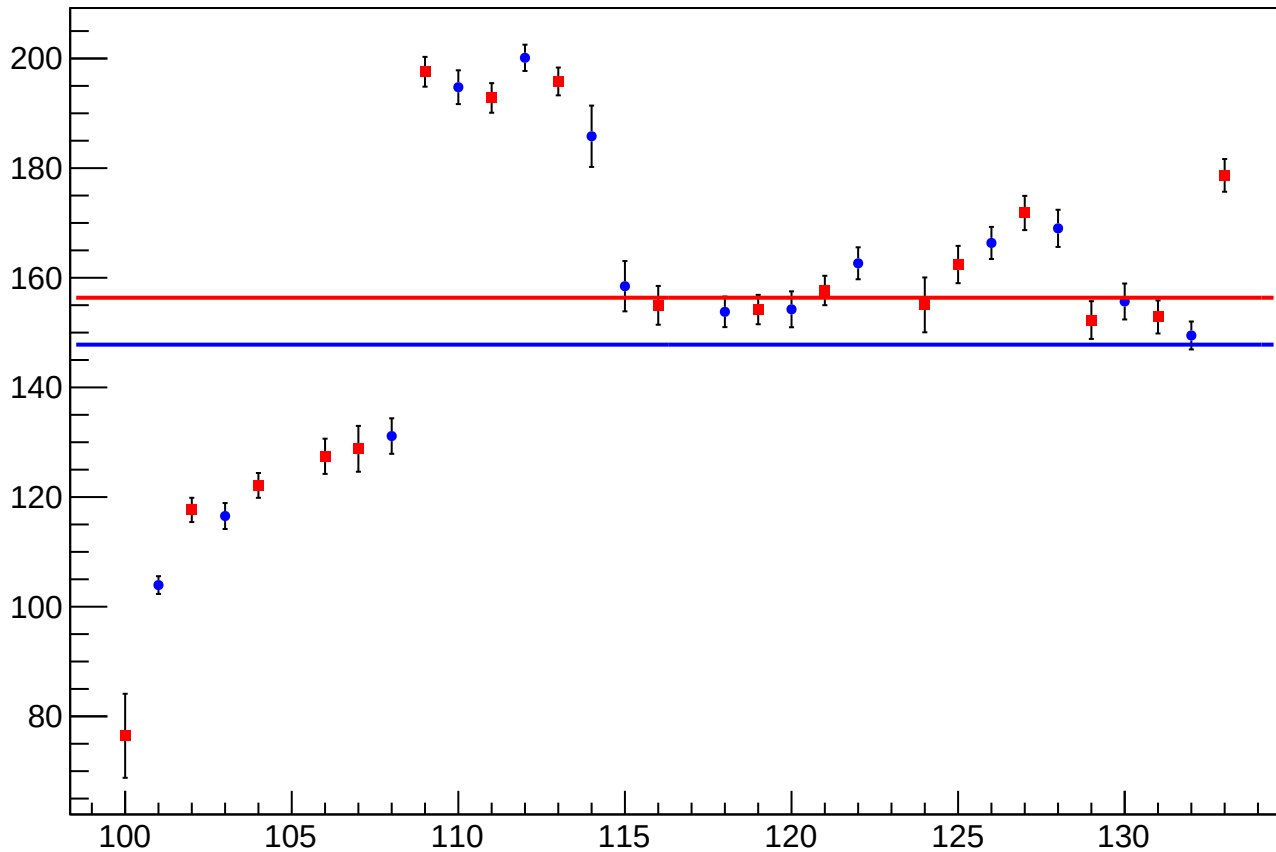
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $9.374 \pm 0.480$   $\chi^2/\text{NDF}$ : 366.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug



Right In: 147.803 $\pm$ 0.745  $\chi^2$ /NDF: 1813.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 156.362 $\pm$ 0.727  $\chi^2$ /NDF: 1509.8/16

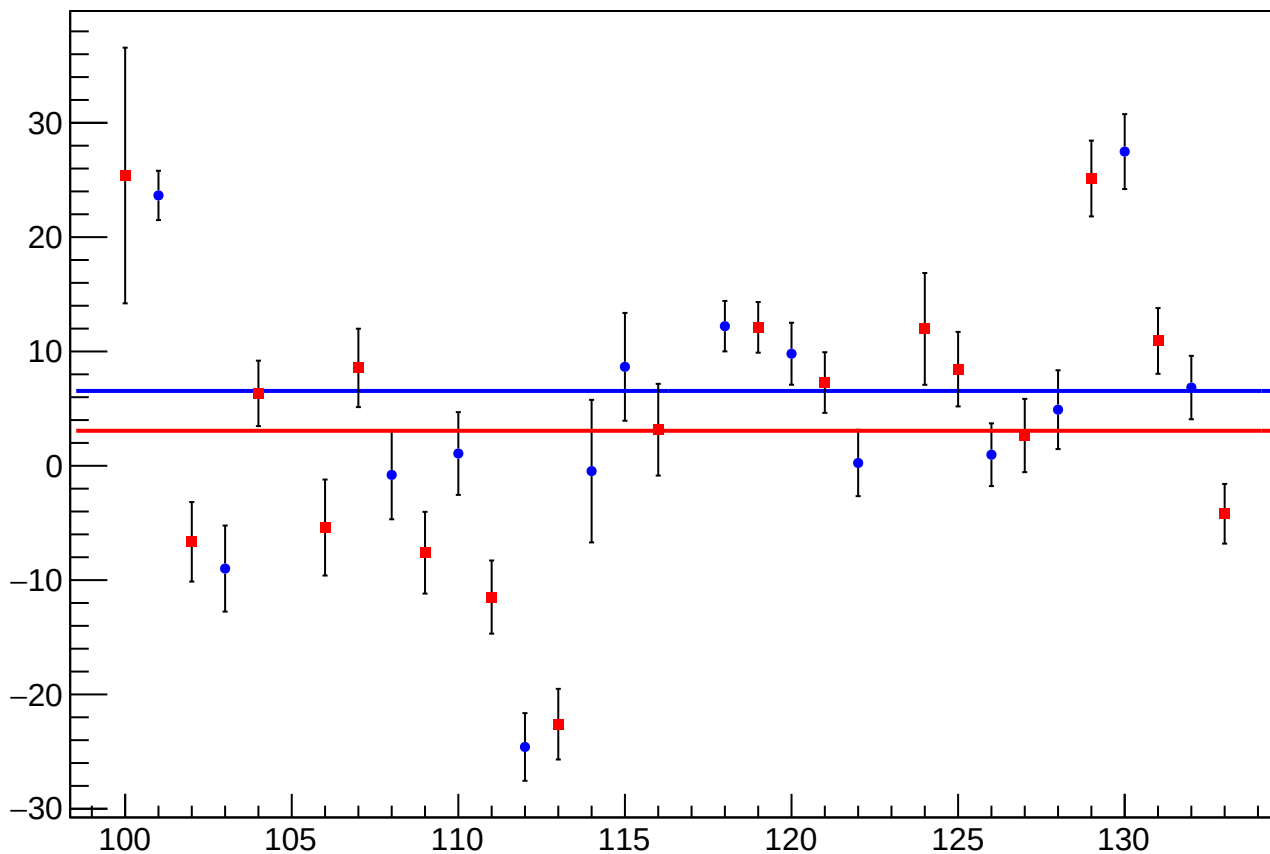
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 152.185 $\pm$ 0.520  $\chi^2$ /NDF: 3391.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug



Right In: 6.547 $\pm$ 0.813  $\chi^2$ /NDF: 255.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.062 $\pm$ 0.782  $\chi^2$ /NDF: 203.1/16

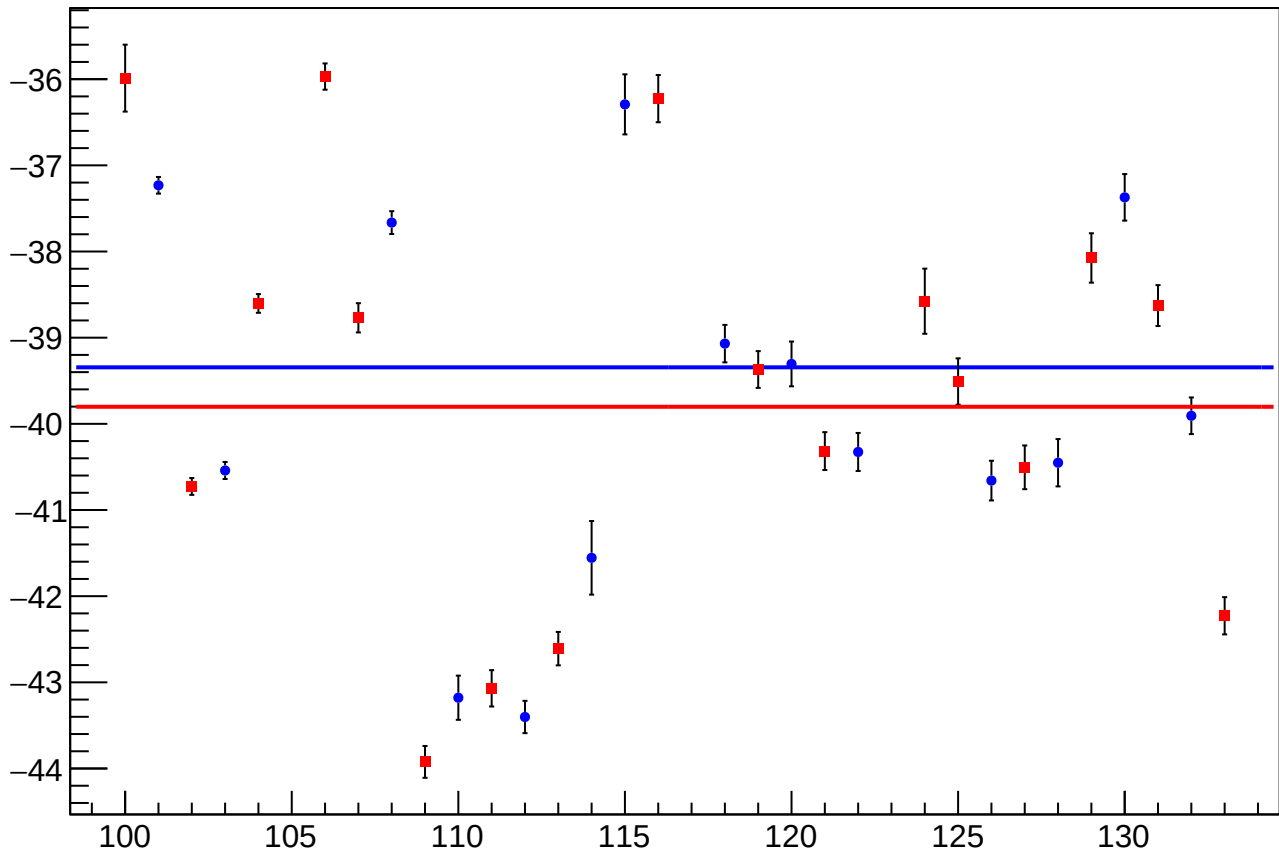
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.737 $\pm$ 0.564  $\chi^2$ /NDF: 468.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug



Right In:  $-39.344 \pm 0.047$   $\chi^2/\text{NDF}$ : 1711.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-39.802 \pm 0.045$   $\chi^2/\text{NDF}$ : 2311.1/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

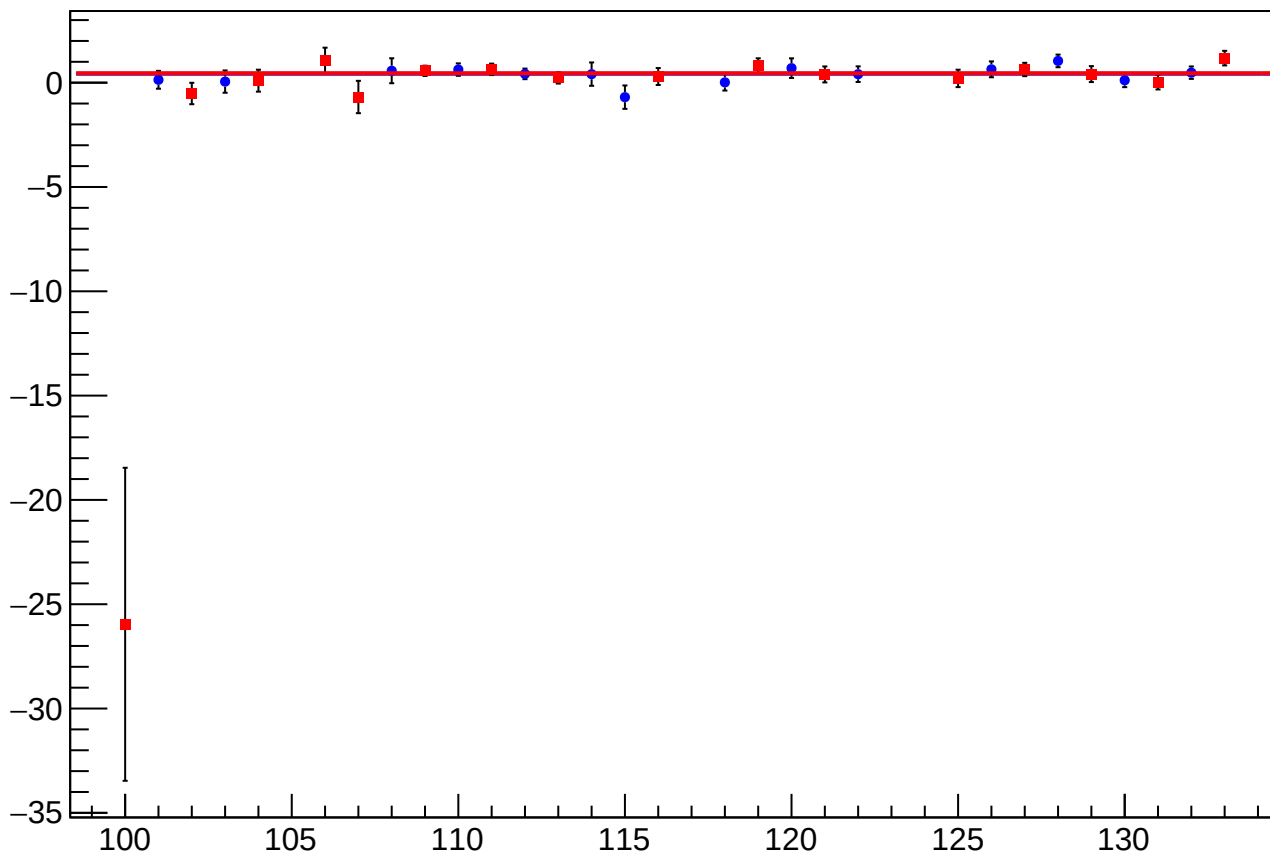
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-39.585 \pm 0.033$   $\chi^2/\text{NDF}$ : 4071.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug



Right In: 0.431 $\pm$ 0.099  $\chi^2$ /NDF: 12.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.450 $\pm$ 0.093  $\chi^2$ /NDF: 28.5/15

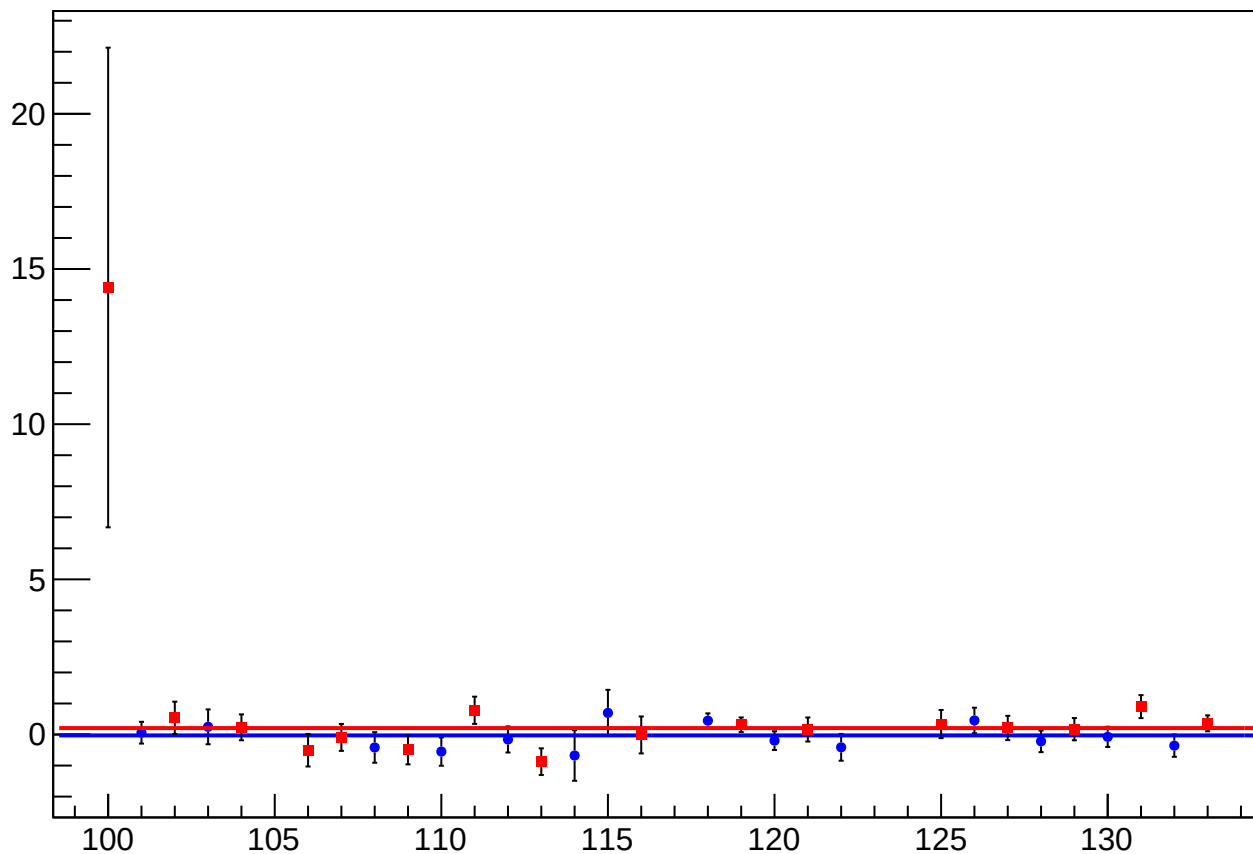
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.441 $\pm$ 0.068  $\chi^2$ /NDF: 40.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.028 \pm 0.103$   $\chi^2/\text{NDF}$ : 11.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.207 \pm 0.099$   $\chi^2/\text{NDF}$ : 20.8/15

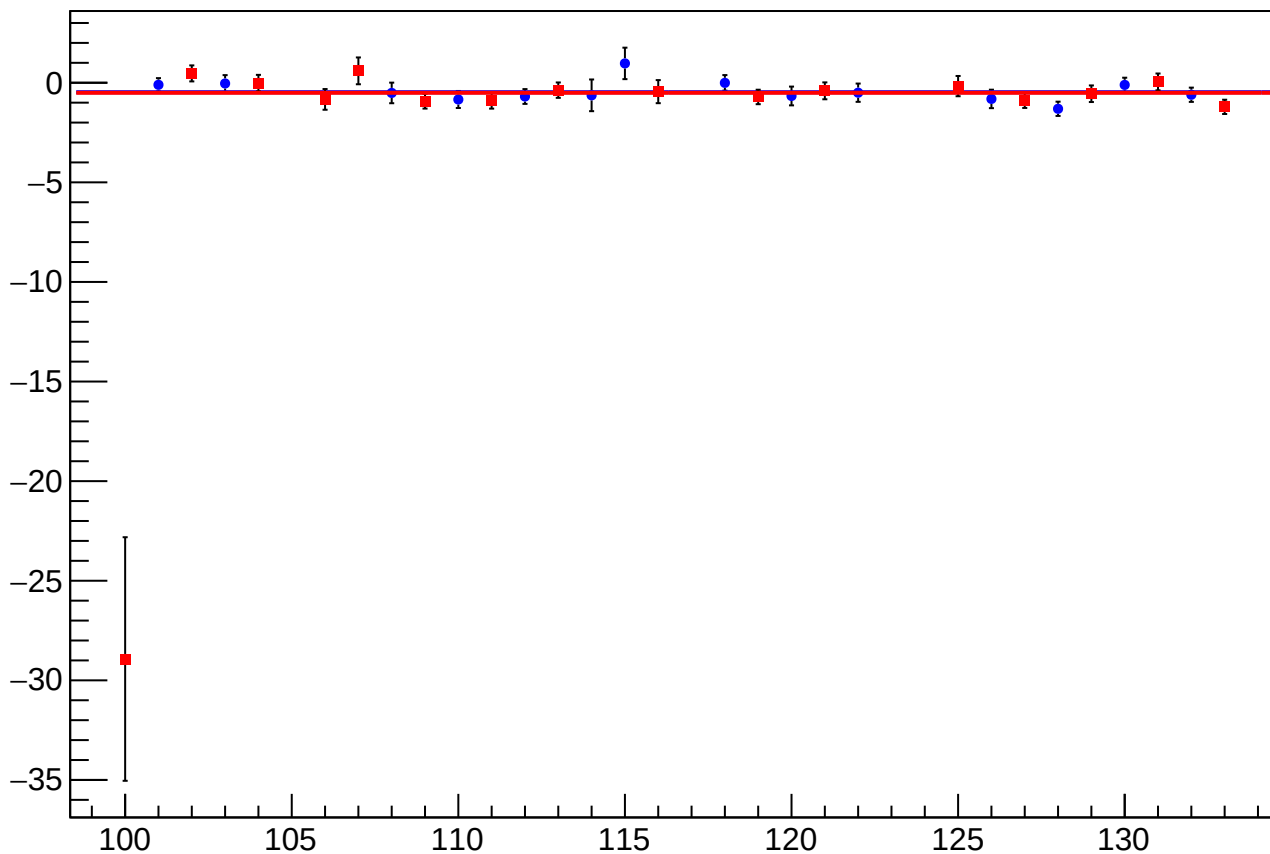
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.094 \pm 0.071$   $\chi^2/\text{NDF}$ : 35.1/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.475 \pm 0.113$   $\chi^2/\text{NDF}$ : 15.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.504 \pm 0.109$   $\chi^2/\text{NDF}$ : 41.6/15

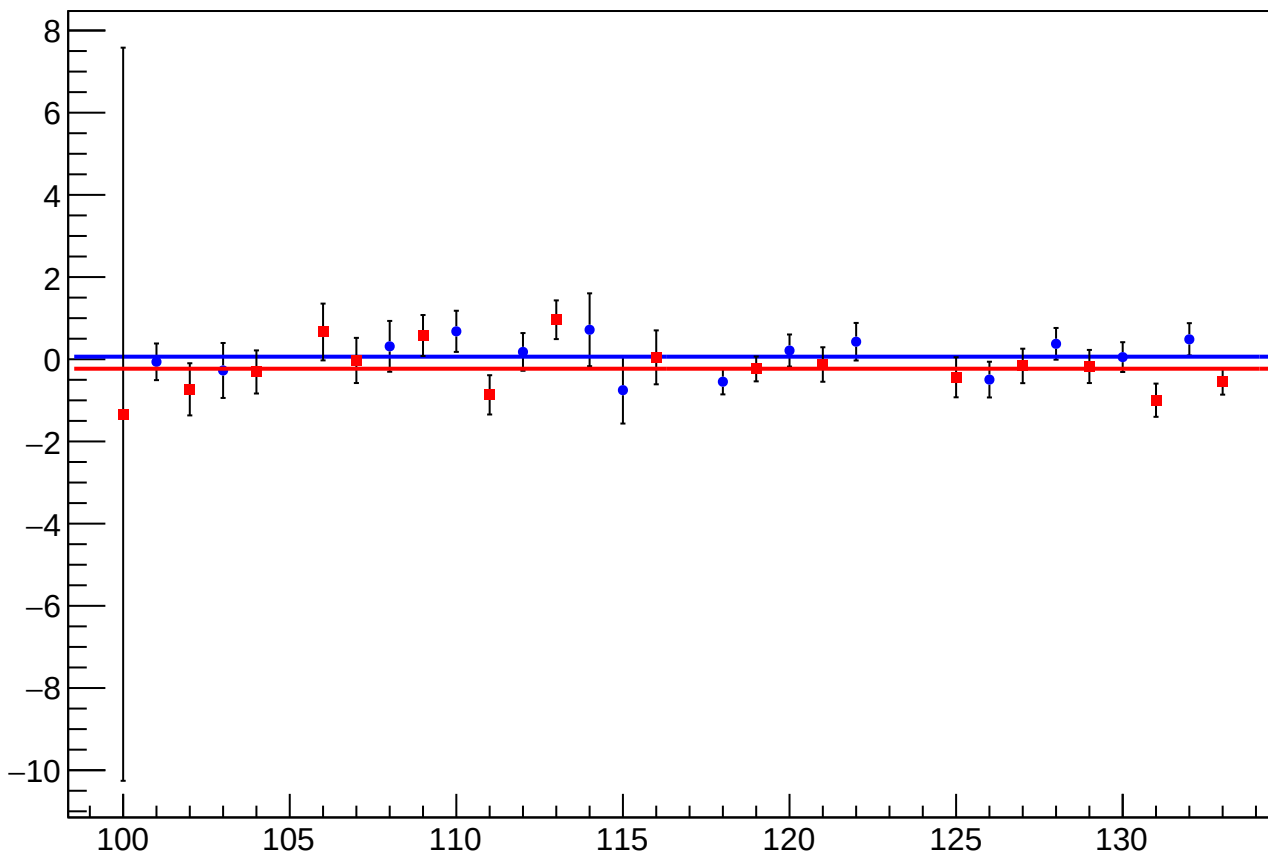
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.490 \pm 0.079$   $\chi^2/\text{NDF}$ : 57.1/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug



Right In: 0.063+/-0.120  $\chi^2/\text{NDF}$ : 11.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.230+/-0.115  $\chi^2/\text{NDF}$ : 18.3/15

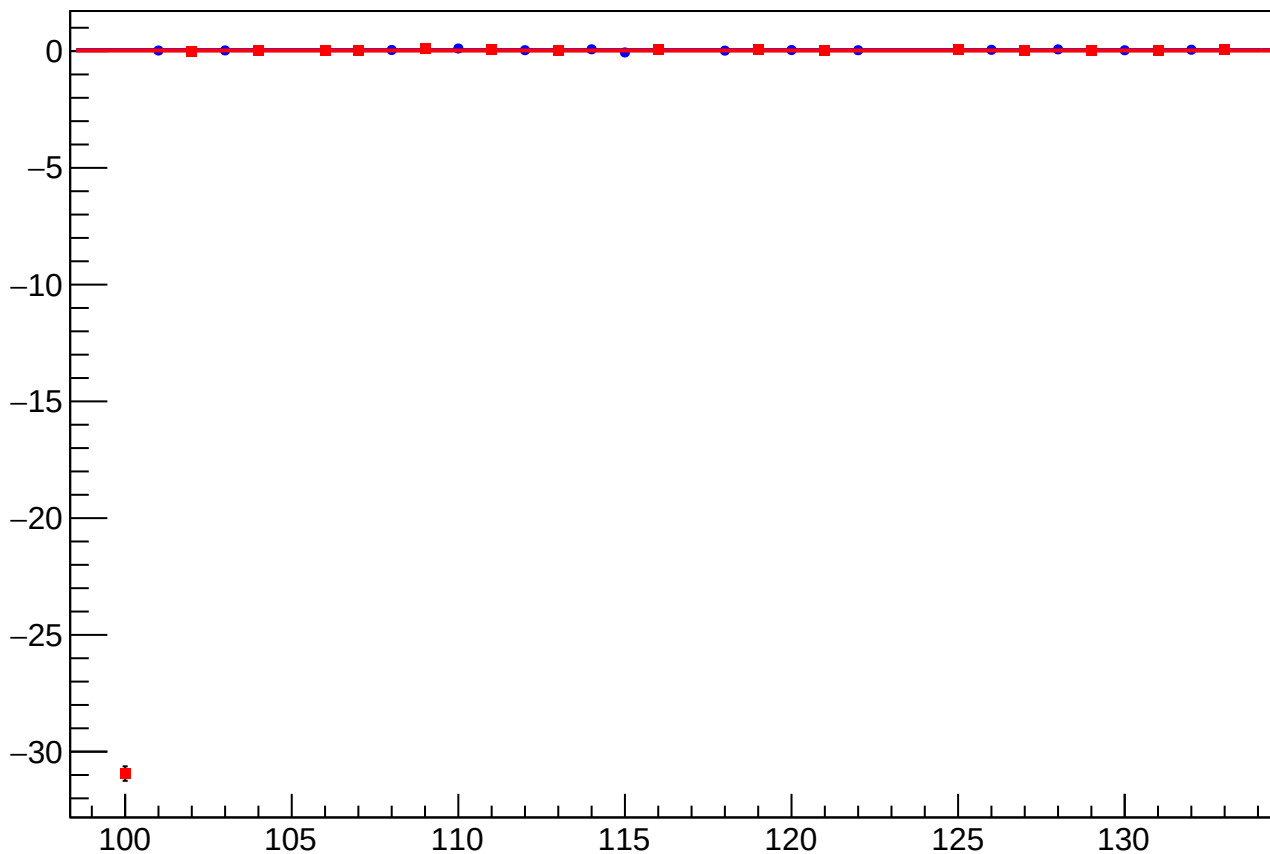
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.090+/-0.083  $\chi^2/\text{NDF}$ : 33.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug



Right In: 0.042 $\pm$ 0.008  $\chi^2$ /NDF: 10.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.026 $\pm$ 0.007  $\chi^2$ /NDF: 10014.2/15

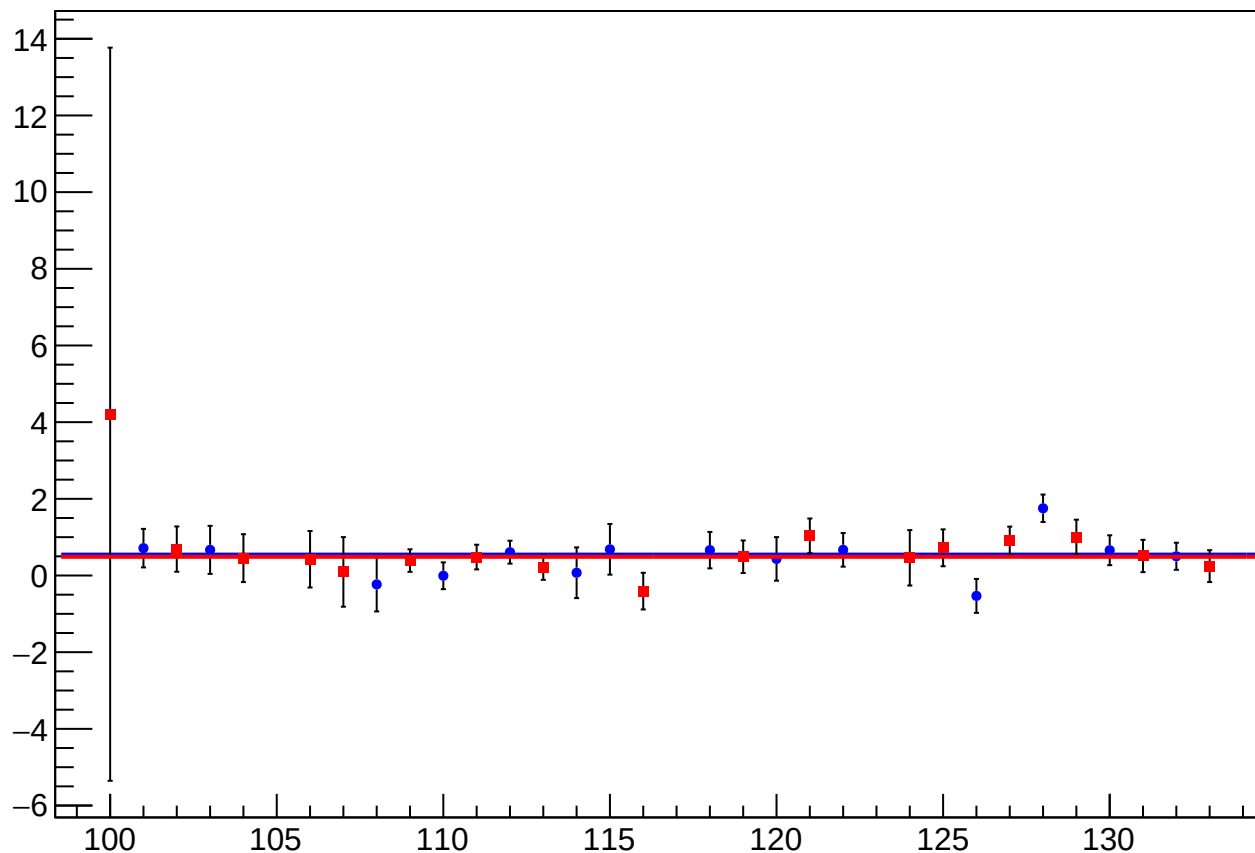
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.033 $\pm$ 0.005  $\chi^2$ /NDF: 10027.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug



Right In: 0.545+/-0.117  $\chi^2/\text{NDF}$ : 22.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.488+/-0.109  $\chi^2/\text{NDF}$ : 9.5/16

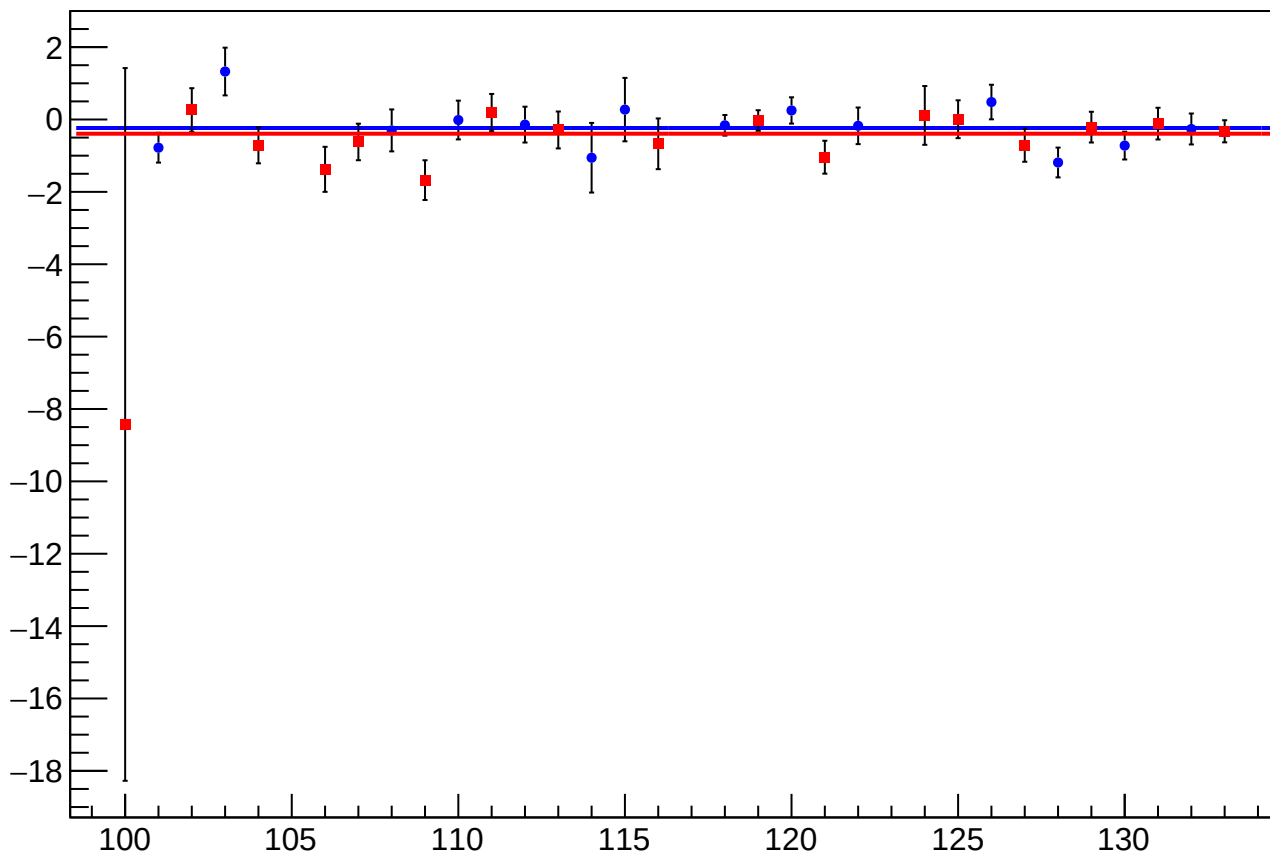
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.514+/-0.080  $\chi^2/\text{NDF}$ : 31.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.235 \pm 0.122$   $\chi^2/\text{NDF}$ : 19.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.393 \pm 0.116$   $\chi^2/\text{NDF}$ : 17.7/16

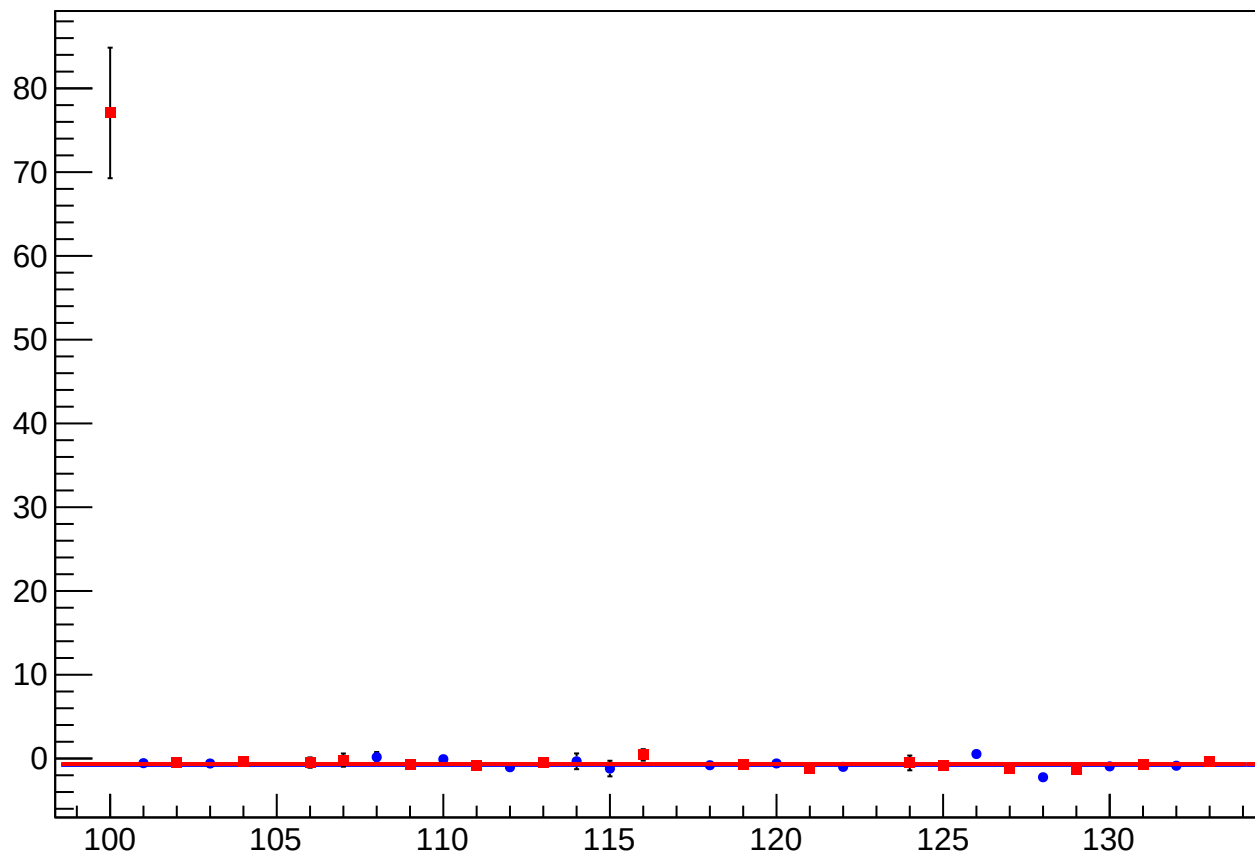
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.318 \pm 0.084$   $\chi^2/\text{NDF}$ : 38.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.761 \pm 0.134$   $\chi^2/\text{NDF}$ : 23.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.656 \pm 0.128$   $\chi^2/\text{NDF}$ : 108.6/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

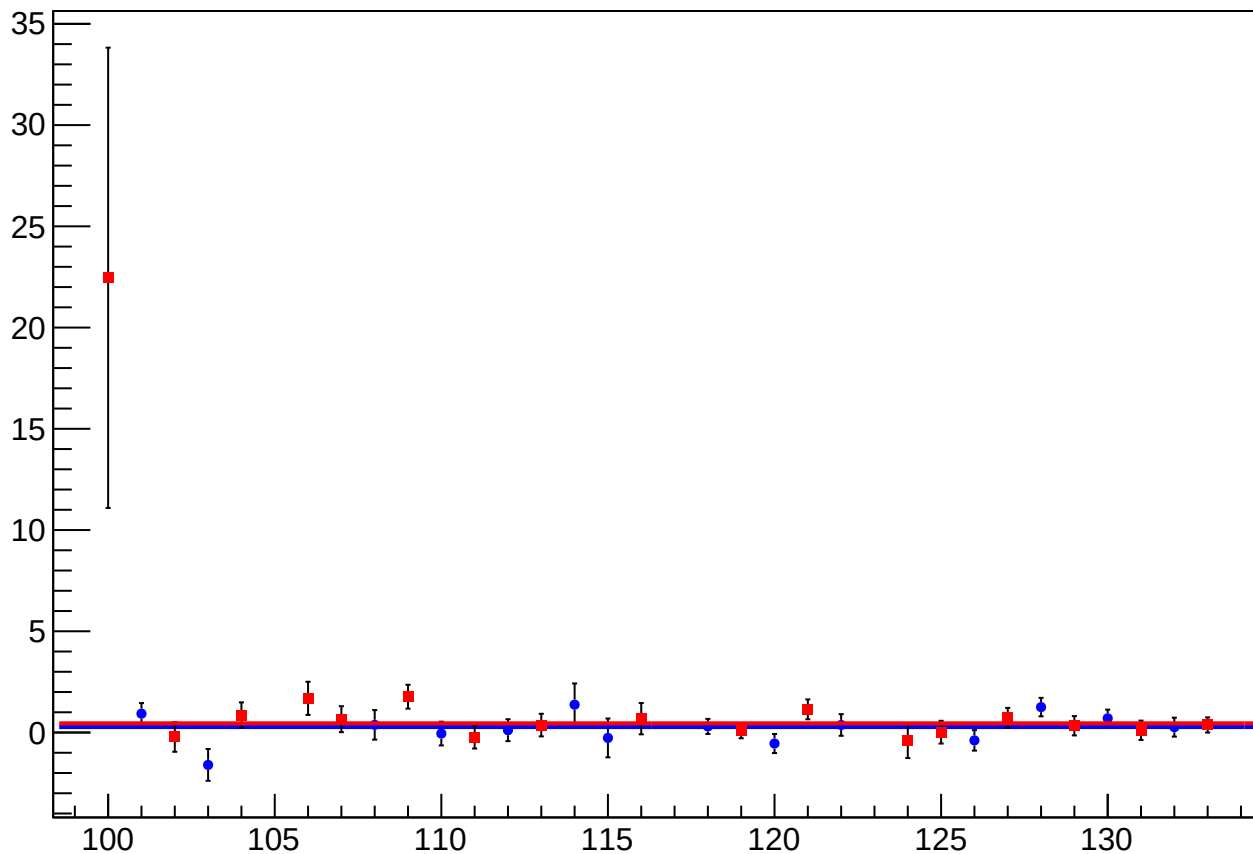
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.706 \pm 0.092$   $\chi^2/\text{NDF}$ : 132.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug



Right In:  $0.269 \pm 0.142$   $\chi^2/\text{NDF}$ : 19.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.455 \pm 0.134$   $\chi^2/\text{NDF}$ : 19.5/16

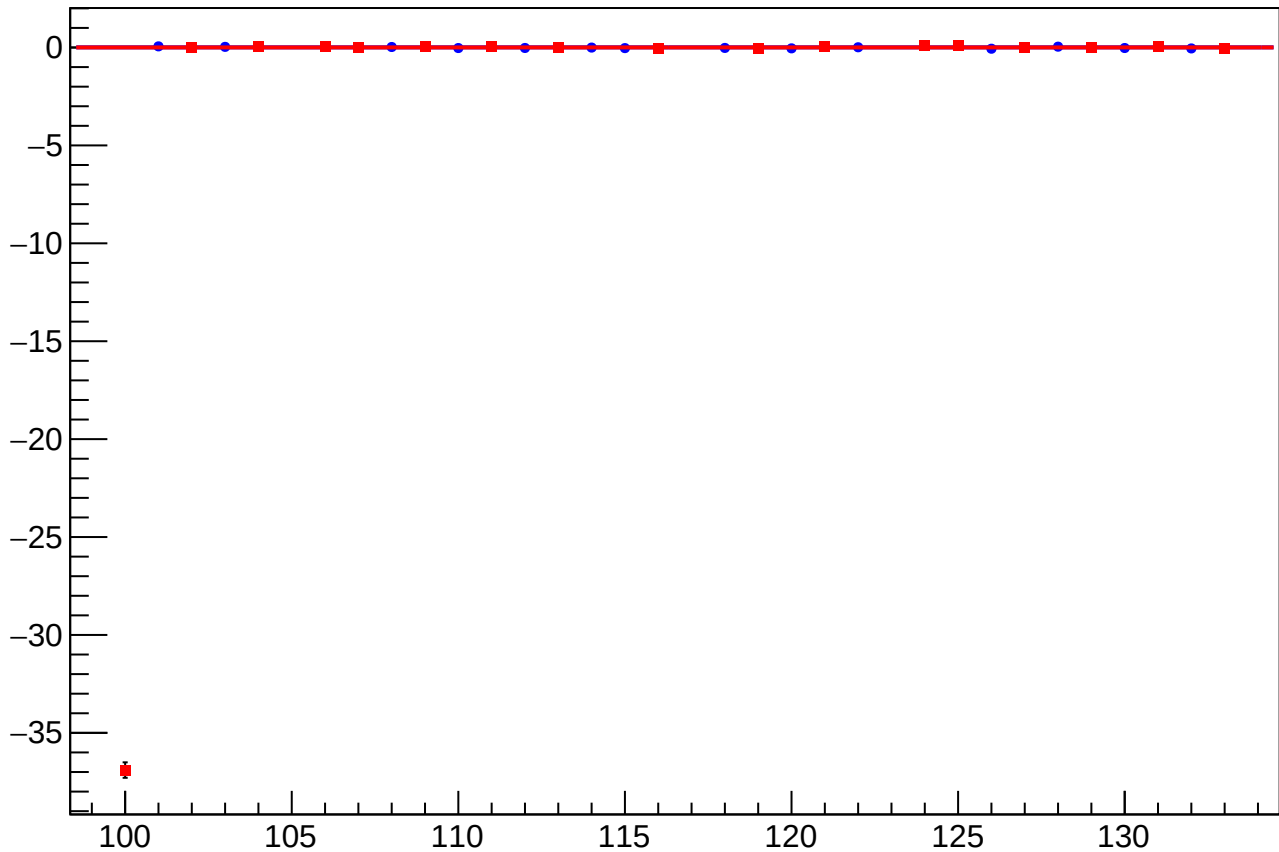
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.367 \pm 0.098$   $\chi^2/\text{NDF}$ : 39.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug



Right In: 0.008+/-0.009  $\chi^2/\text{NDF}$ : 17.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.008  $\chi^2/\text{NDF}$ : 8752.9/16

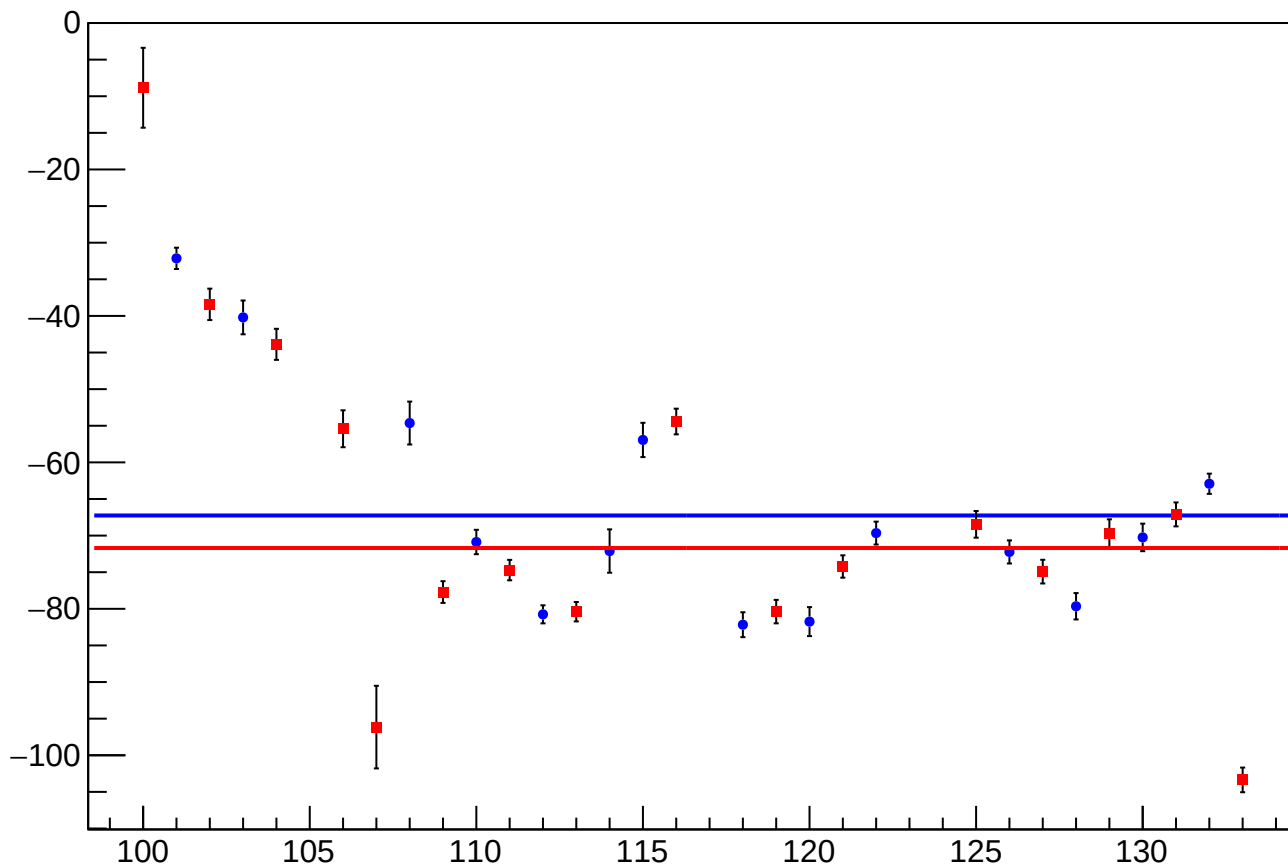
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.006  $\chi^2/\text{NDF}$ : 8770.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-67.253 \pm 0.465$   $\chi^2/\text{NDF}$ : 1086.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-71.694 \pm 0.446$   $\chi^2/\text{NDF}$ : 1169.3/15

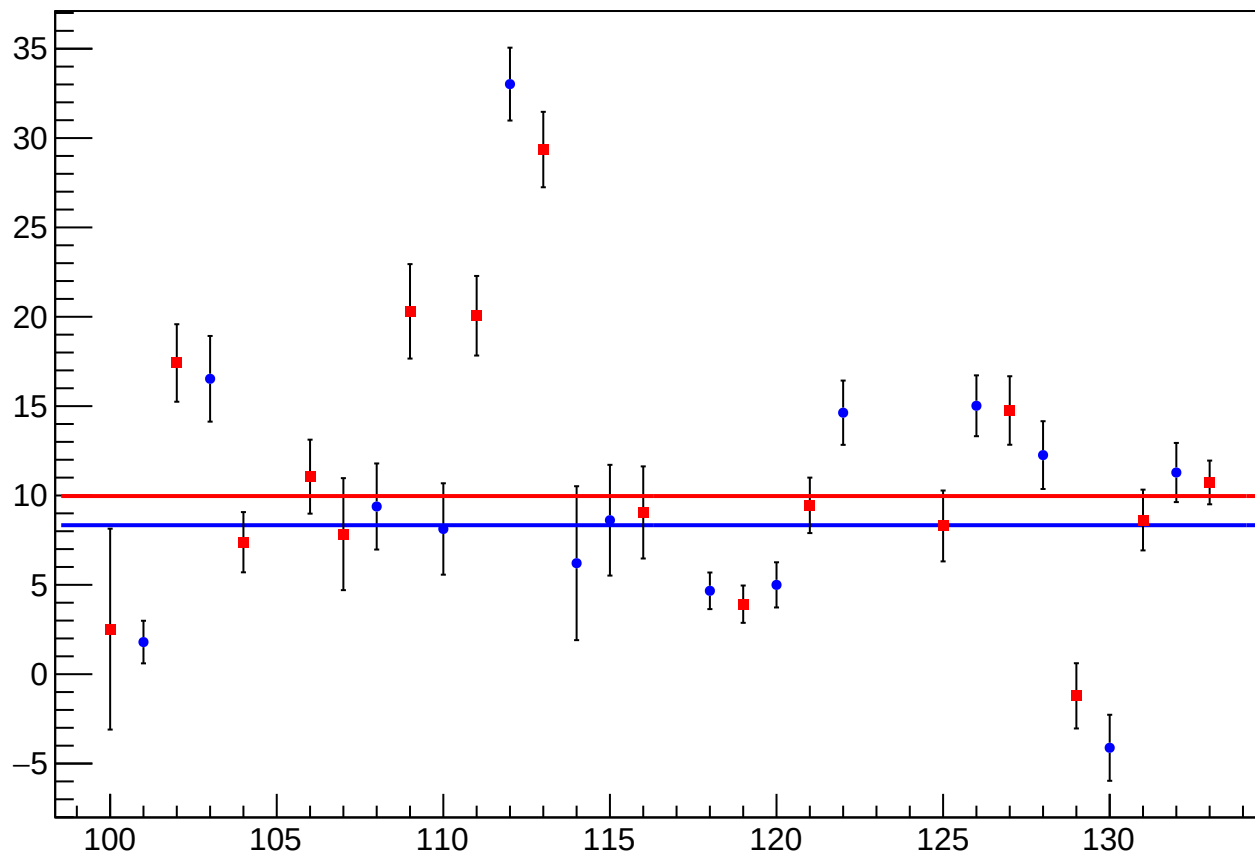
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-69.566 \pm 0.322$   $\chi^2/\text{NDF}$ : 2303.4/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 8.337+/-0.458  $\chi^2/\text{NDF}$ : 289.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9.968+/-0.455  $\chi^2/\text{NDF}$ : 216.2/15

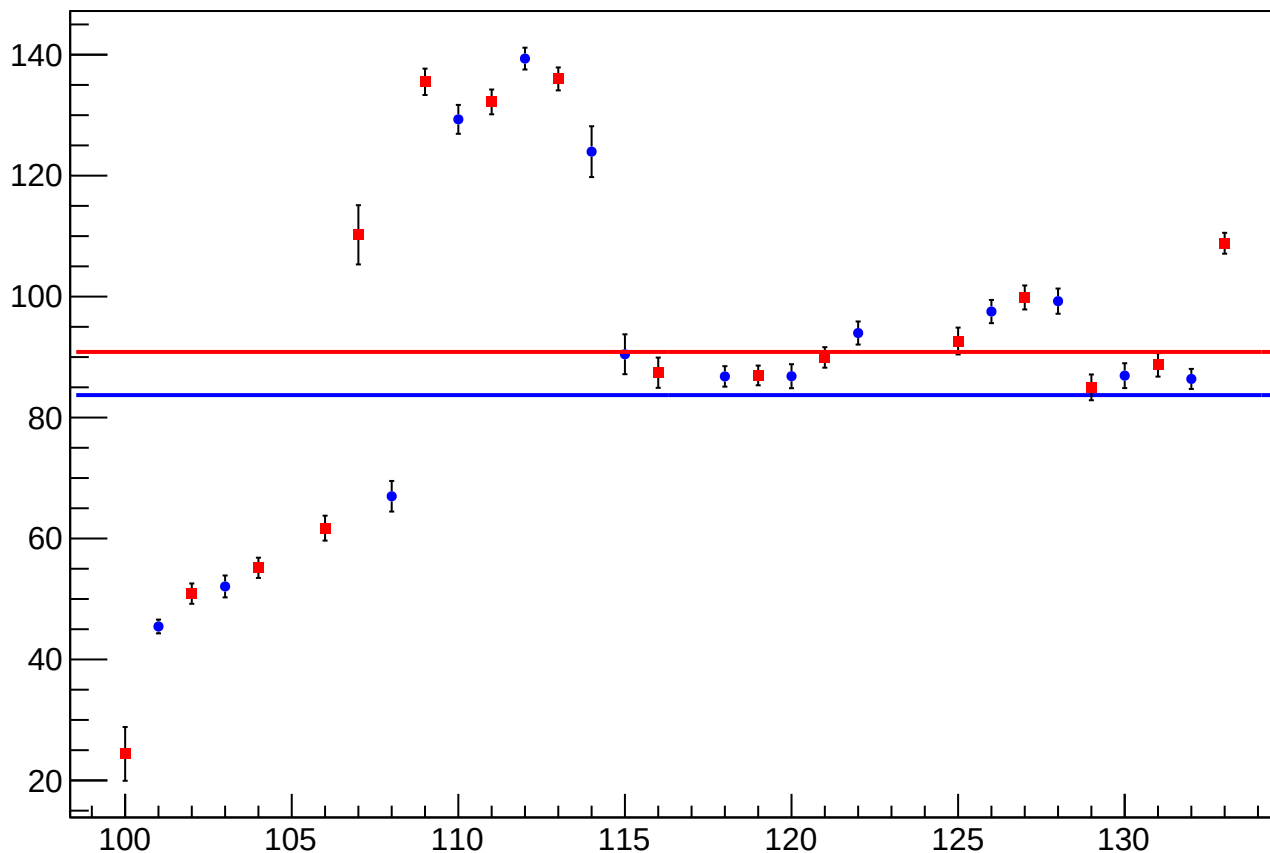
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.157+/-0.323  $\chi^2/\text{NDF}$ : 511.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 83.713+/-0.510  $\chi^2/\text{NDF}$ : 3033.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 90.848+/-0.504  $\chi^2/\text{NDF}$ : 3000.6/15

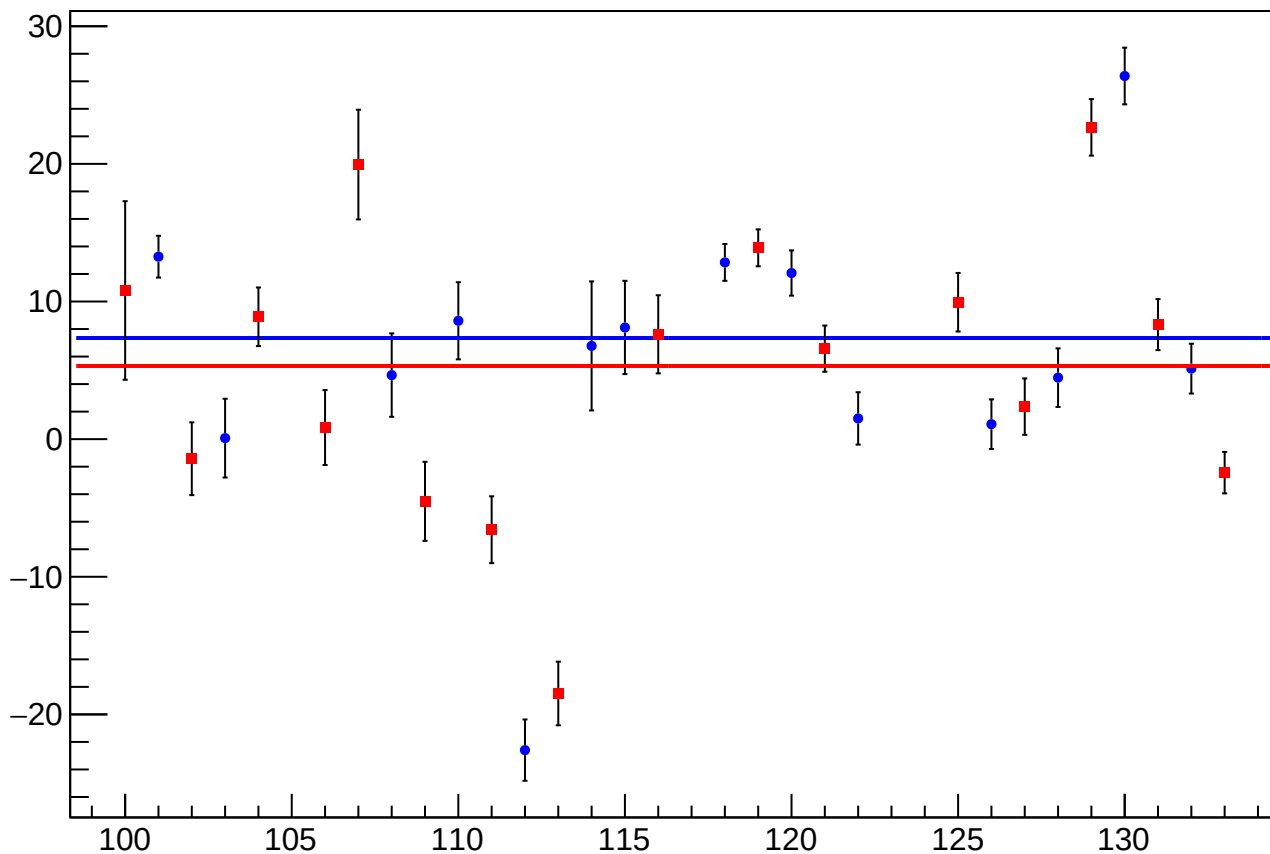
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 87.323+/-0.359  $\chi^2/\text{NDF}$ : 6133.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 7.348 $\pm$ 0.542  $\chi^2$ /NDF: 338.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.316 $\pm$ 0.533  $\chi^2$ /NDF: 317.2/15

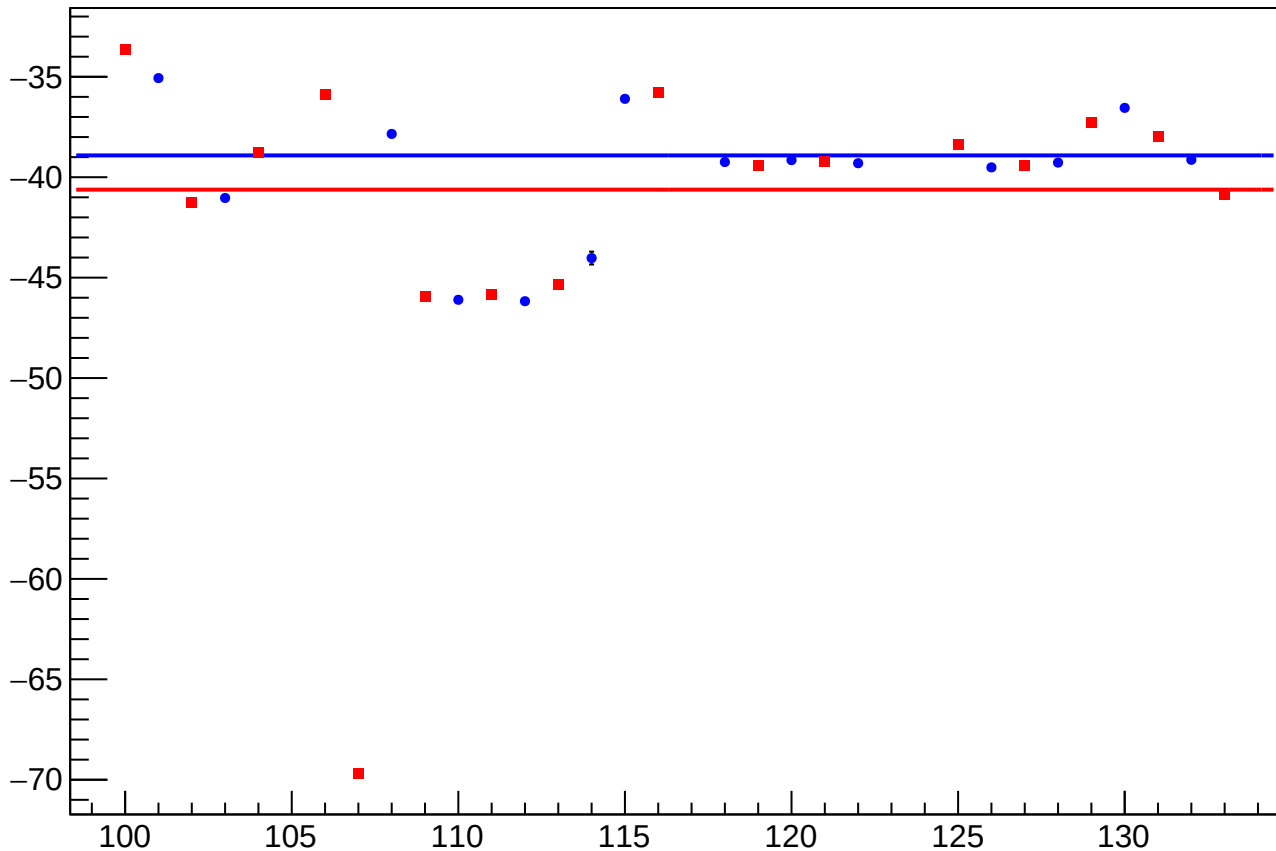
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.314 $\pm$ 0.380  $\chi^2$ /NDF: 663.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-38.915 \pm 0.033$   $\chi^2/\text{NDF}: 8667.7/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-40.619 \pm 0.032$   $\chi^2/\text{NDF}: 30413.9/15$

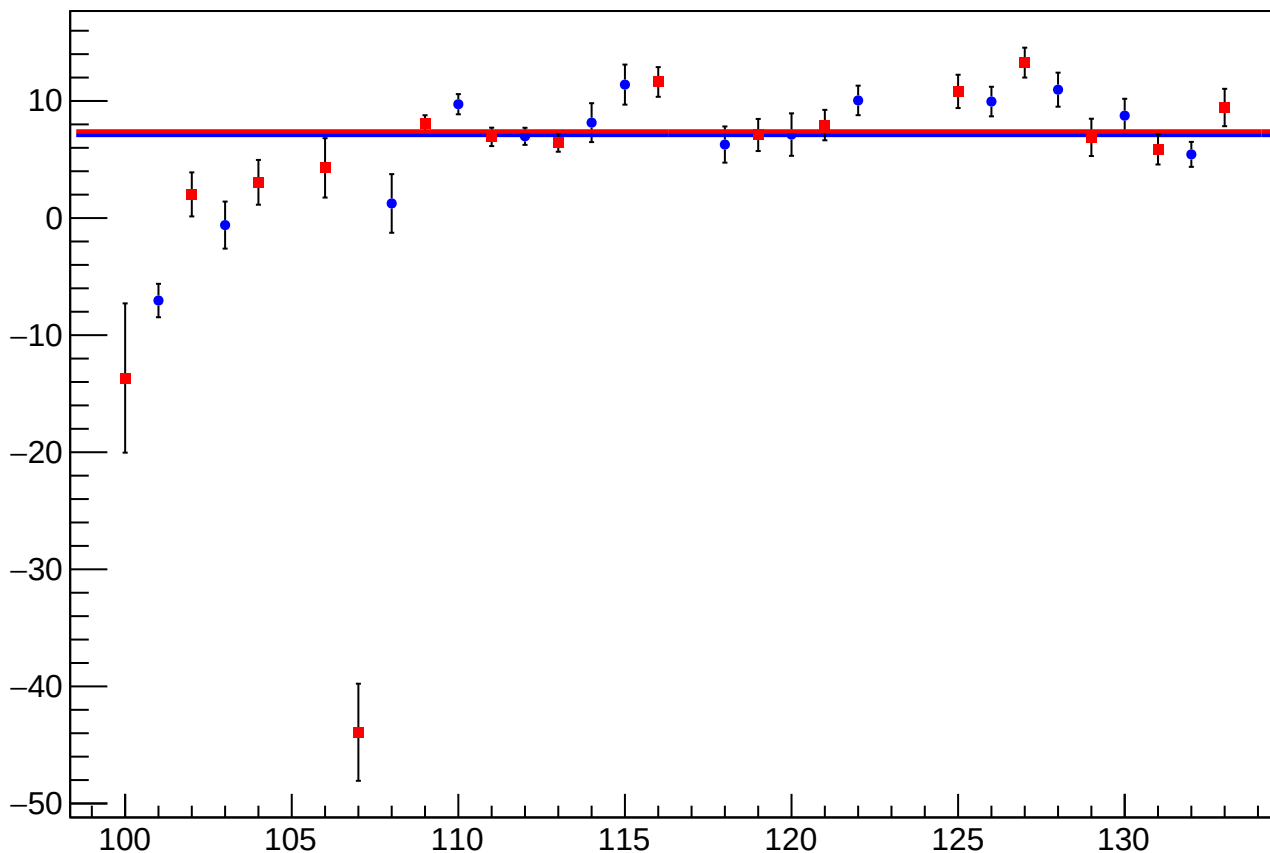
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-39.799 \pm 0.023$   $\chi^2/\text{NDF}: 40432.5/29$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $7.083 \pm 0.340$   $\chi^2/\text{NDF}$ : 155.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $7.417 \pm 0.312$   $\chi^2/\text{NDF}$ : 223.1/15

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

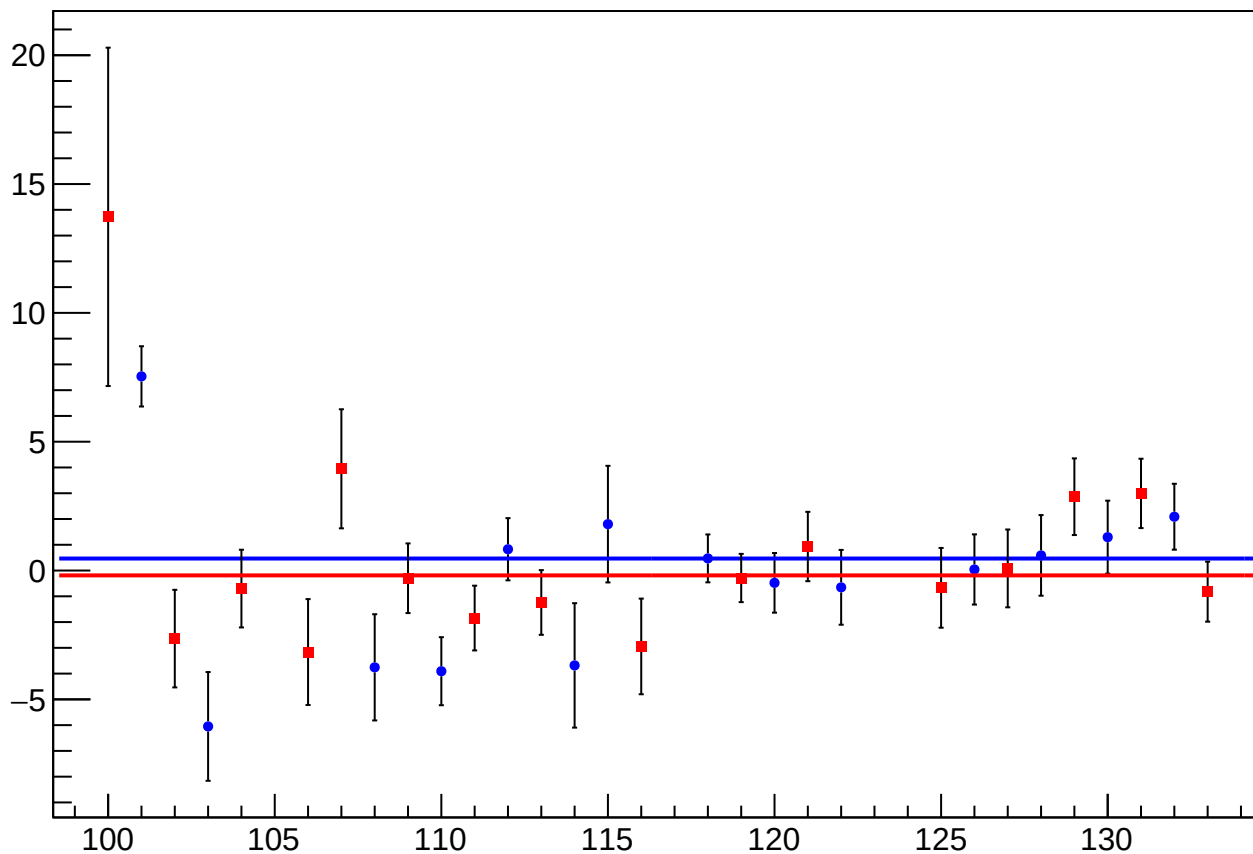
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $7.264 \pm 0.230$   $\chi^2/\text{NDF}$ : 379.5/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.466 $\pm$ 0.371  $\chi^2$ /NDF: 68.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.188 $\pm$ 0.364  $\chi^2$ /NDF: 27.2/15

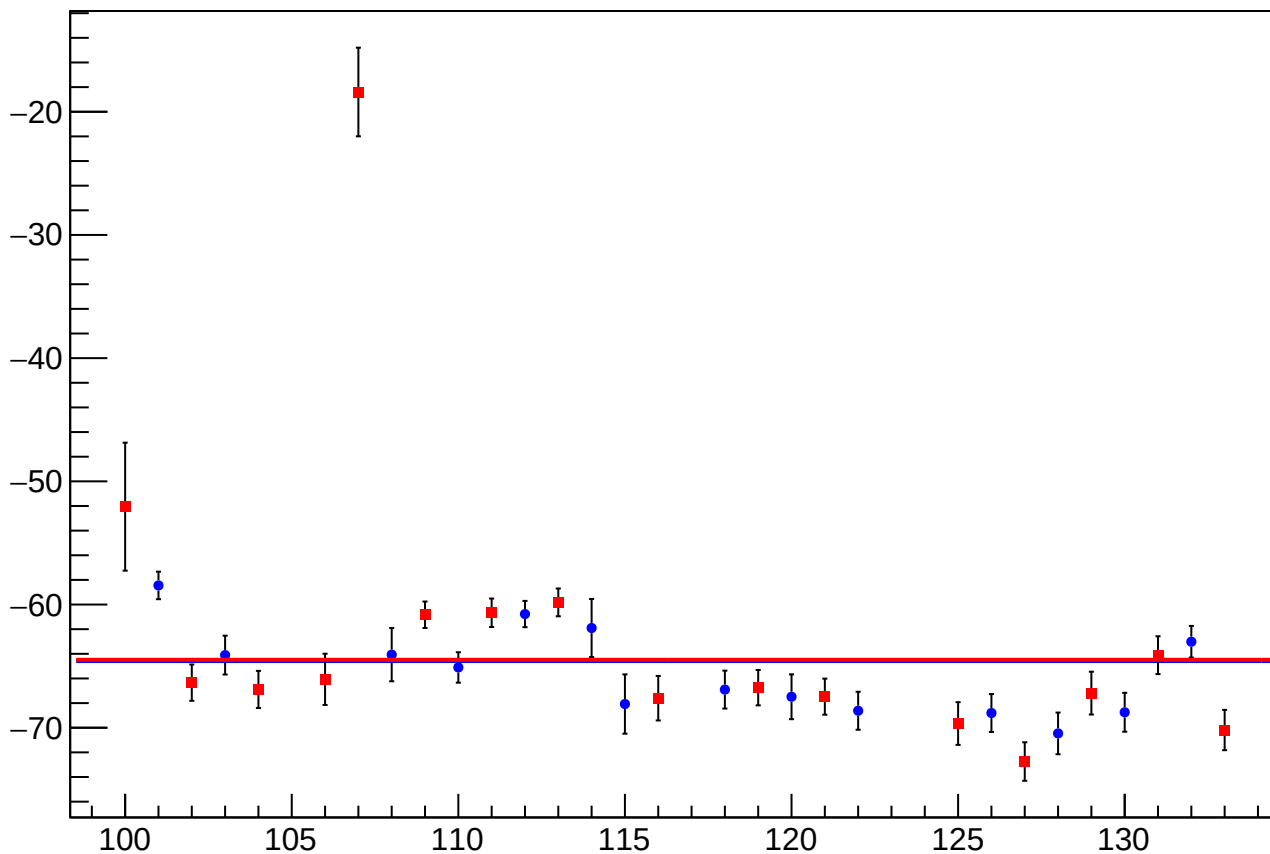
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.132 $\pm$ 0.260  $\chi^2$ /NDF: 96.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -64.586 $\pm$ 0.401  $\chi^2$ /NDF: 86.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -64.483 $\pm$ 0.384  $\chi^2$ /NDF: 275.1/15

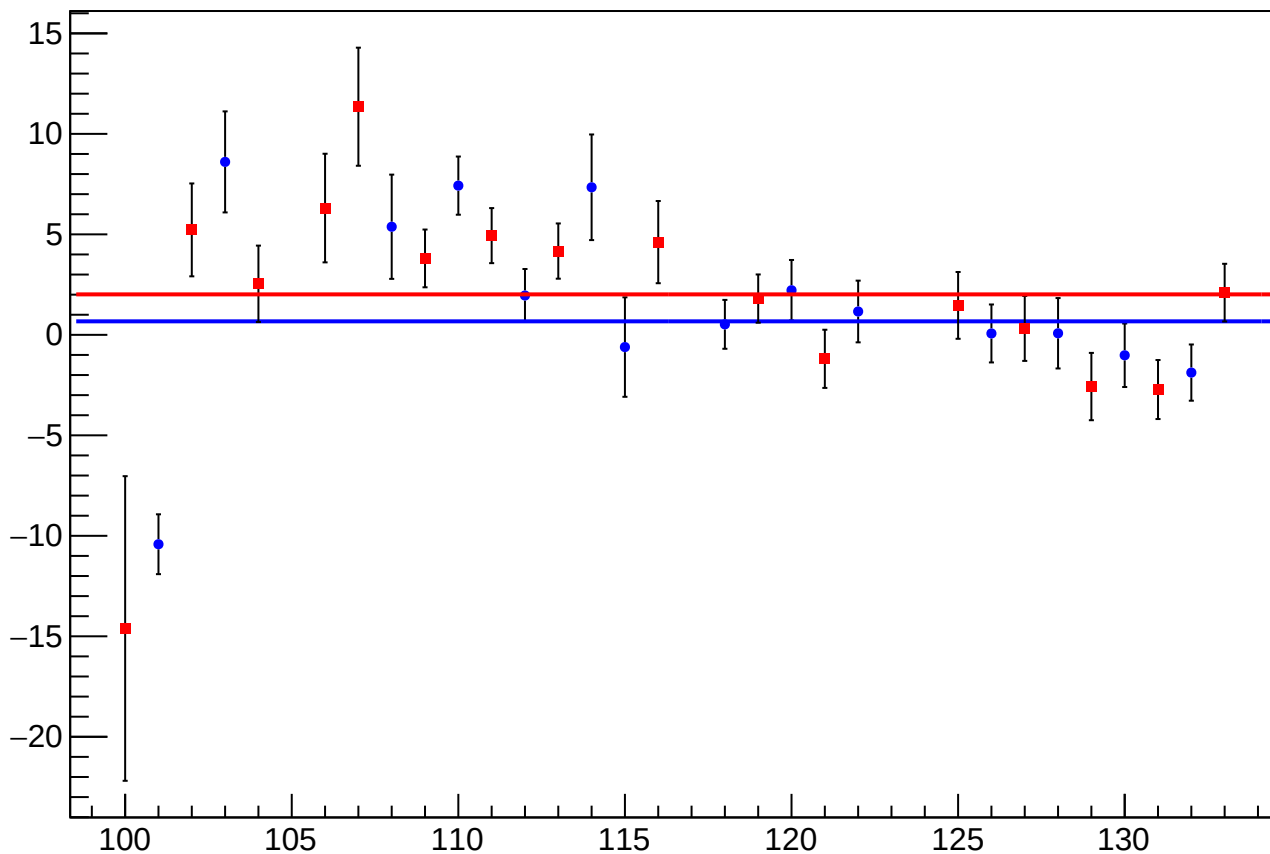
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -64.533 $\pm$ 0.277  $\chi^2$ /NDF: 361.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.672 $\pm$ 0.431  $\chi^2$ /NDF: 104.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.014 $\pm$ 0.417  $\chi^2$ /NDF: 53.7/15

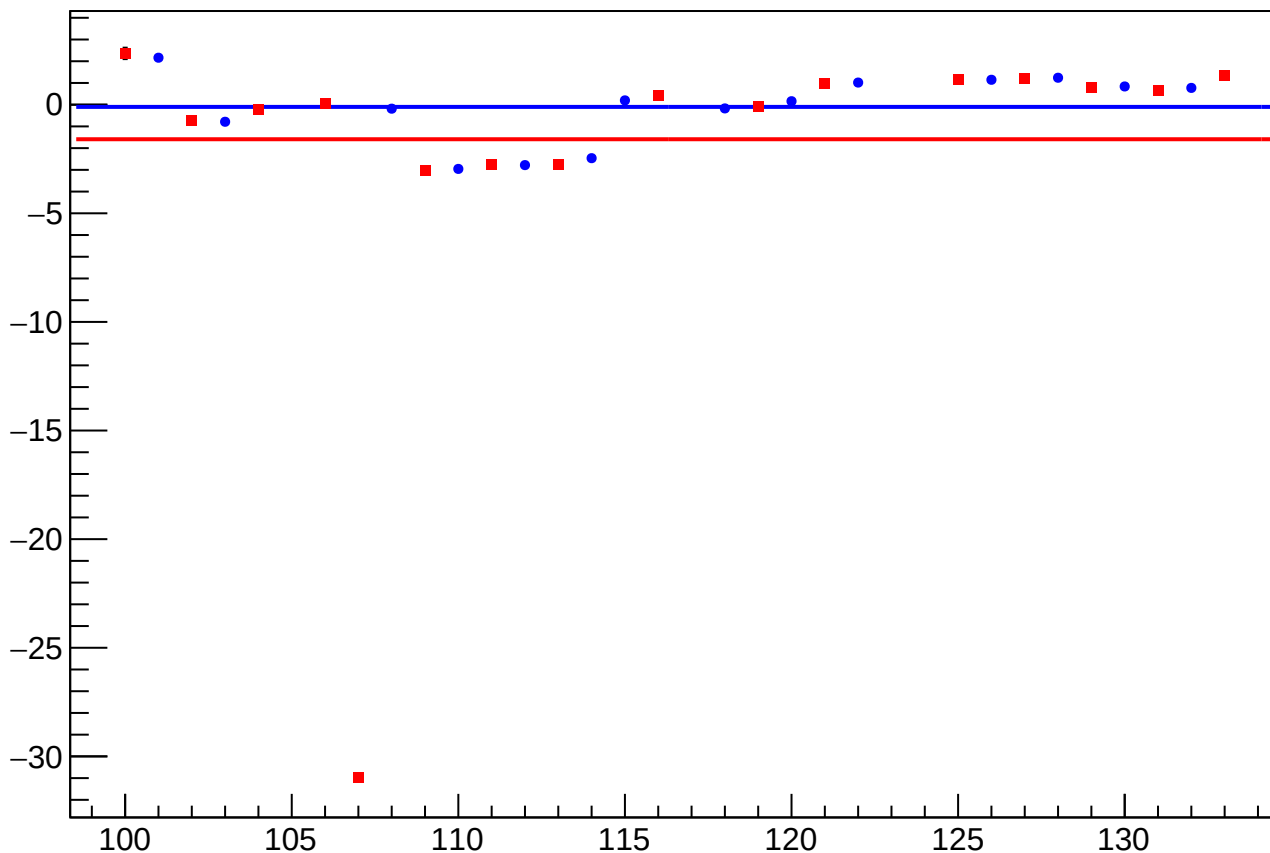
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.365 $\pm$ 0.300  $\chi^2$ /NDF: 162.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.102 \pm 0.027$   $\chi^2/\text{NDF}$ : 3654.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.591 \pm 0.026$   $\chi^2/\text{NDF}$ : 45075.8/15

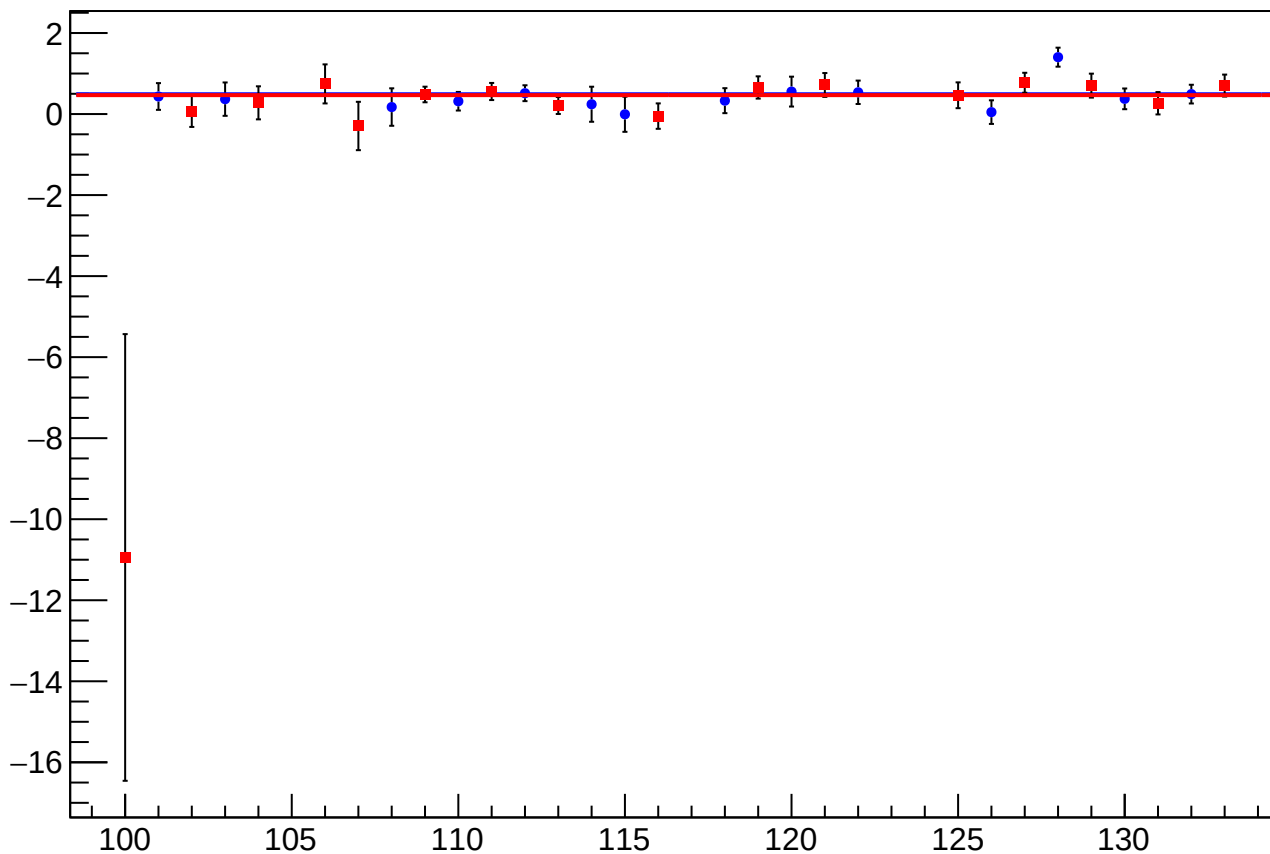
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.888 \pm 0.019$   $\chi^2/\text{NDF}$ : 50300.8/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.488+/-0.077  $\chi^2/\text{NDF}$ : 20.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.467+/-0.072  $\chi^2/\text{NDF}$ : 16.5/15

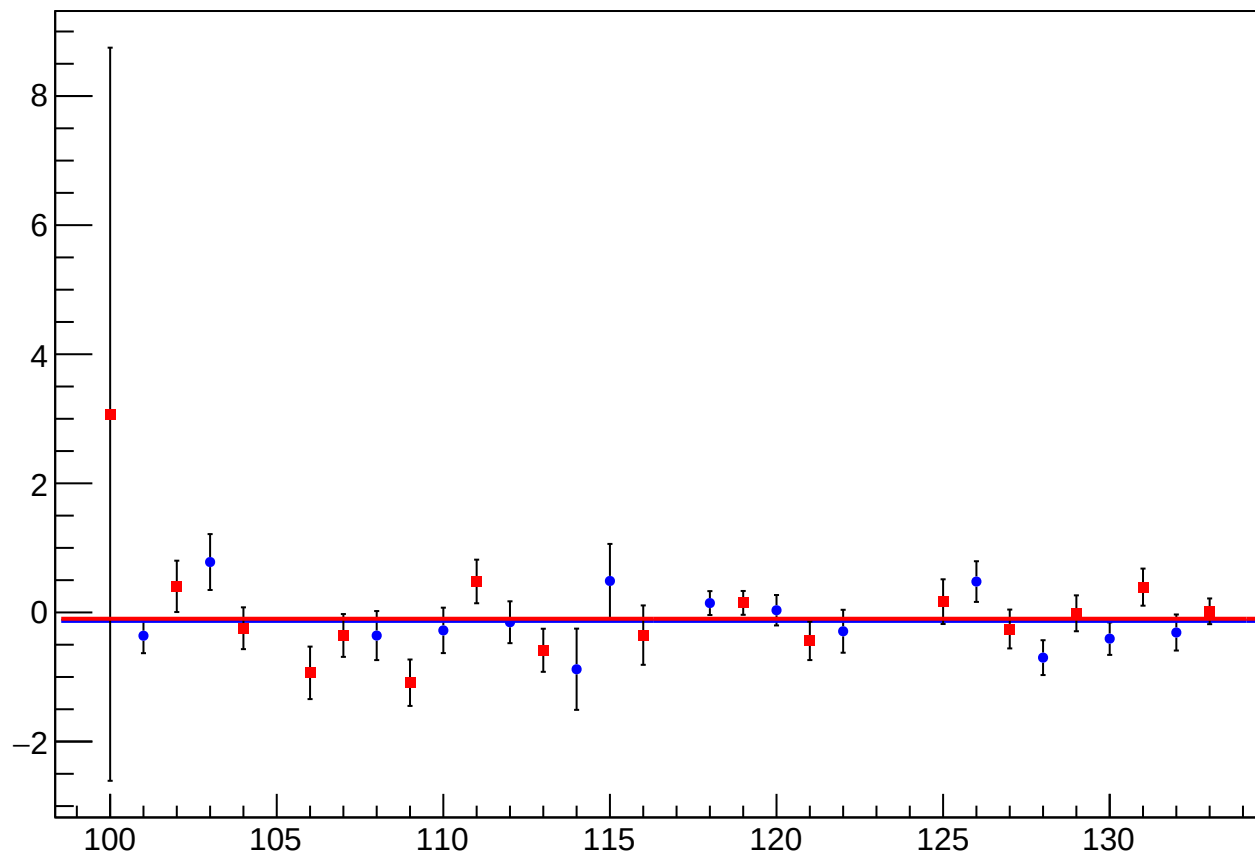
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.477+/-0.053  $\chi^2/\text{NDF}$ : 37.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.131 \pm 0.080$   $\chi^2/\text{NDF}$ : 21.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.098 \pm 0.076$   $\chi^2/\text{NDF}$ : 27.2/15

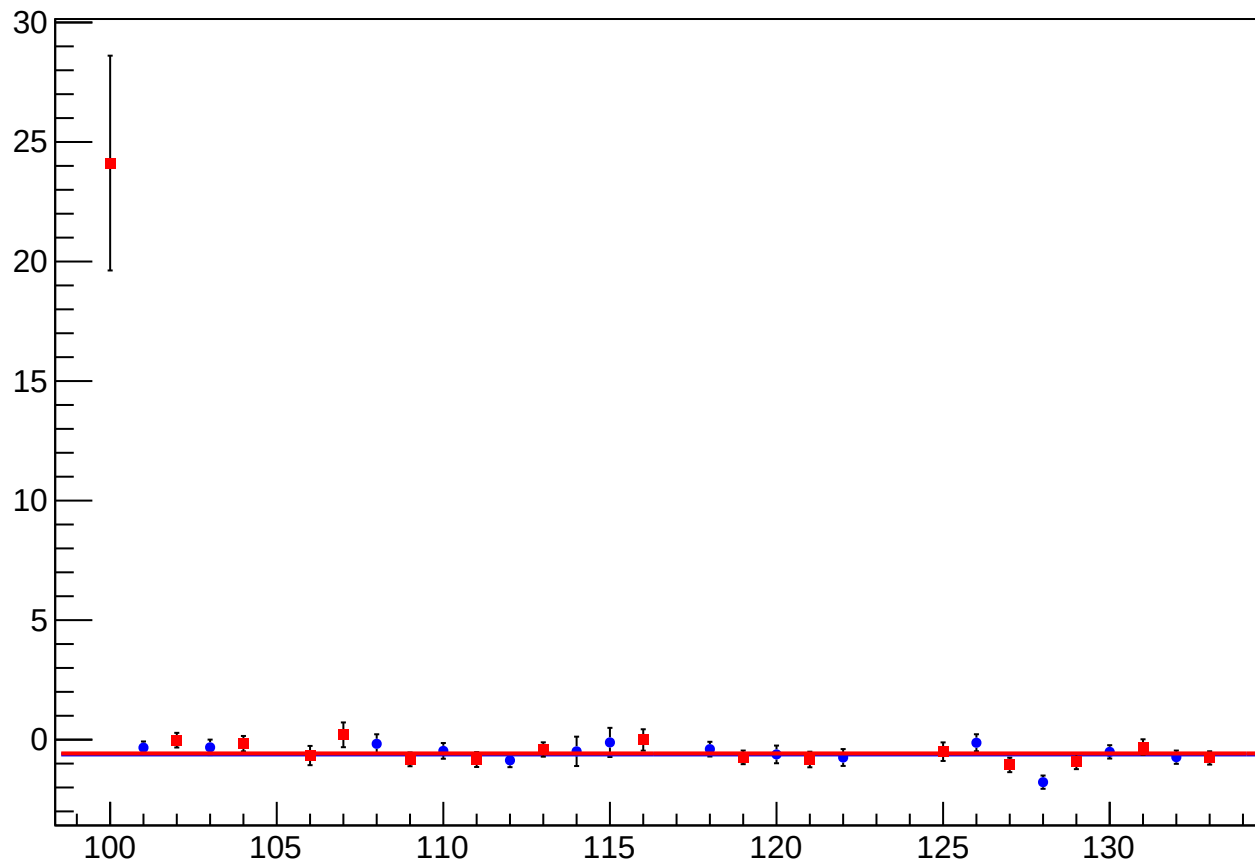
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.114 \pm 0.055$   $\chi^2/\text{NDF}$ : 48.3/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.618 \pm 0.088$   $\chi^2/\text{NDF}$ : 25.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.575 \pm 0.085$   $\chi^2/\text{NDF}$ : 46.4/15

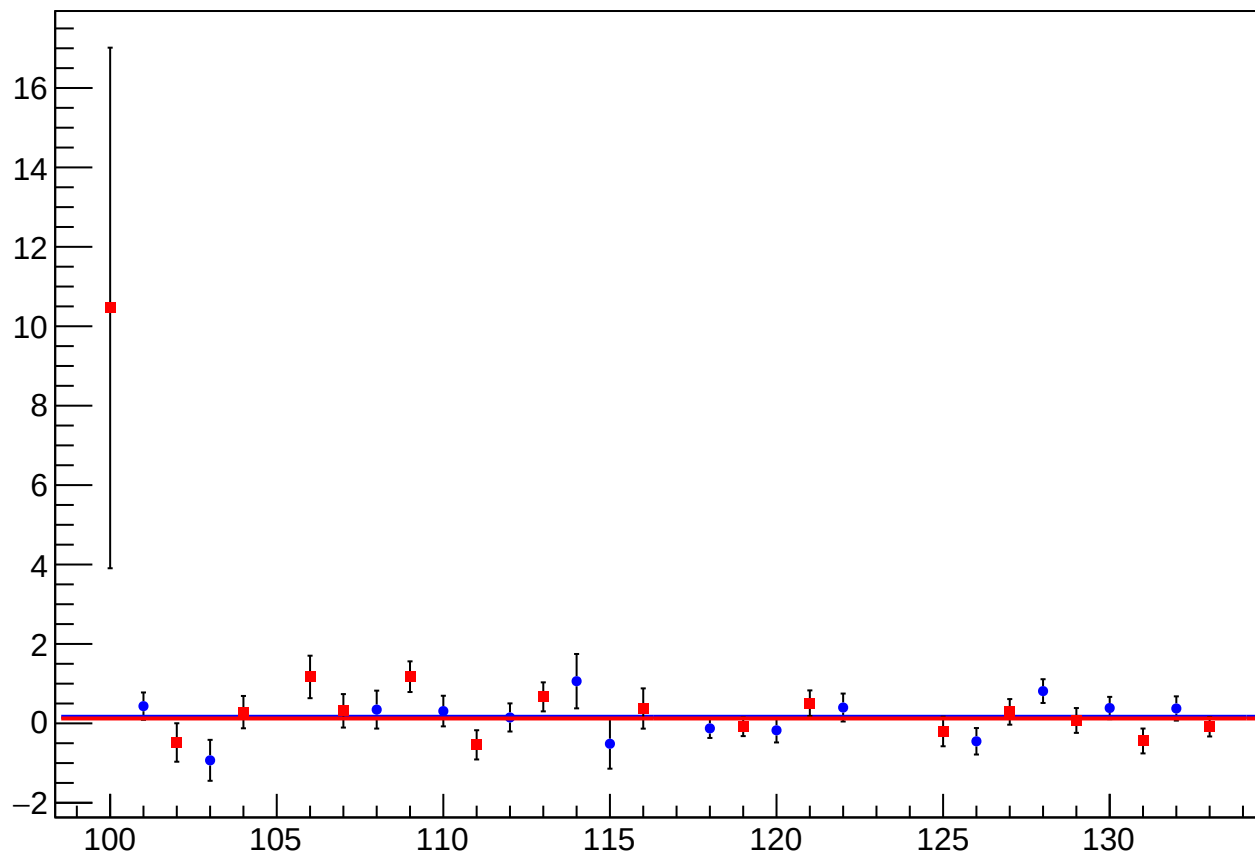
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.596 \pm 0.061$   $\chi^2/\text{NDF}$ : 71.8/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.166+/-0.093  $\chi^2/\text{NDF}$ : 20.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.123+/-0.089  $\chi^2/\text{NDF}$ : 28.6/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

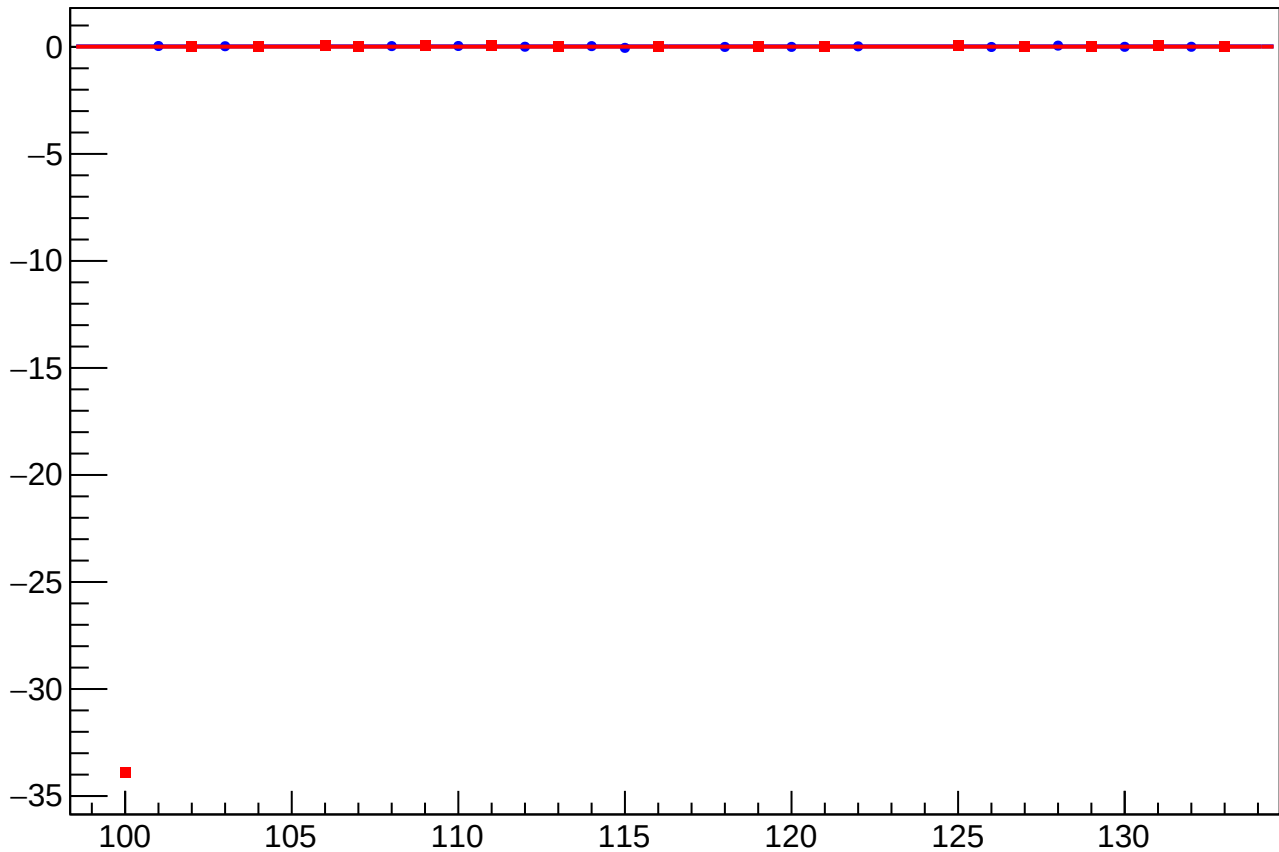
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.143+/-0.064  $\chi^2/\text{NDF}$ : 49.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.025+/-0.006  $\chi^2/\text{NDF}$ : 11.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.005  $\chi^2/\text{NDF}$ : 22260.1/15

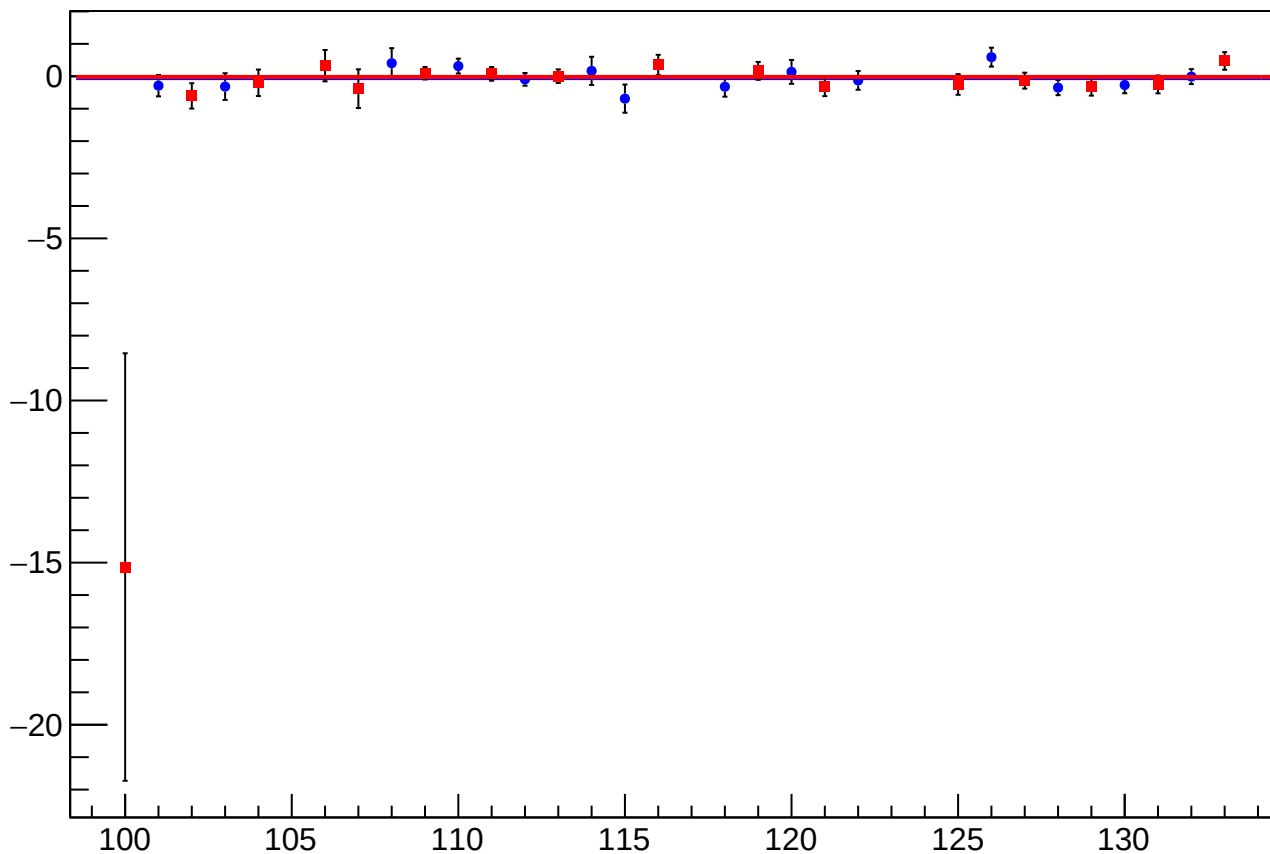
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.017+/-0.004  $\chi^2/\text{NDF}$ : 22275.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -0.057±/-0.077  $\chi^2$ /NDF: 15.2/13

Left Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.020±/-0.072  $\chi^2$ /NDF: 17.6/15

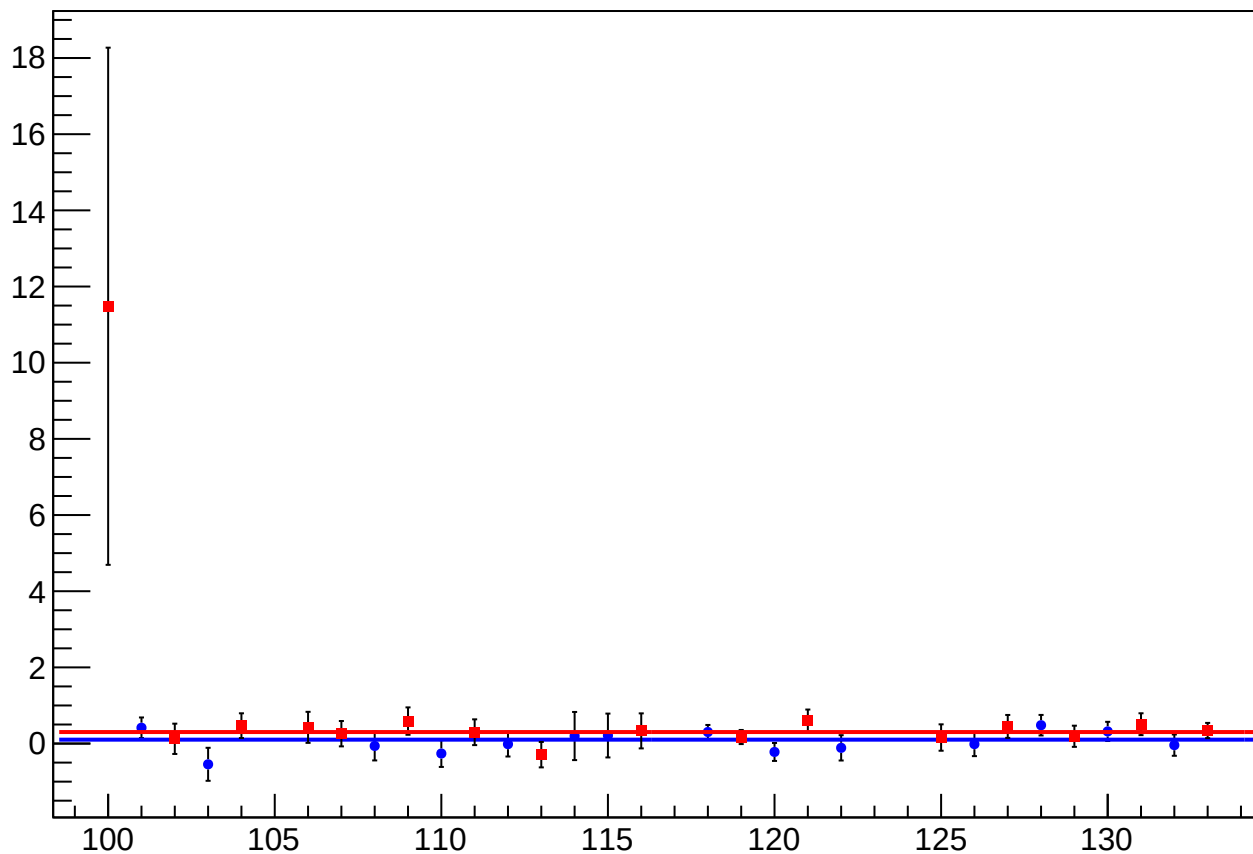
Left In: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.037±/-0.053  $\chi^2$ /NDF: 33.0/29

- sign 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.102 $\pm$ 0.080  $\chi^2$ /NDF: 11.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.302 $\pm$ 0.076  $\chi^2$ /NDF: 9.7/15

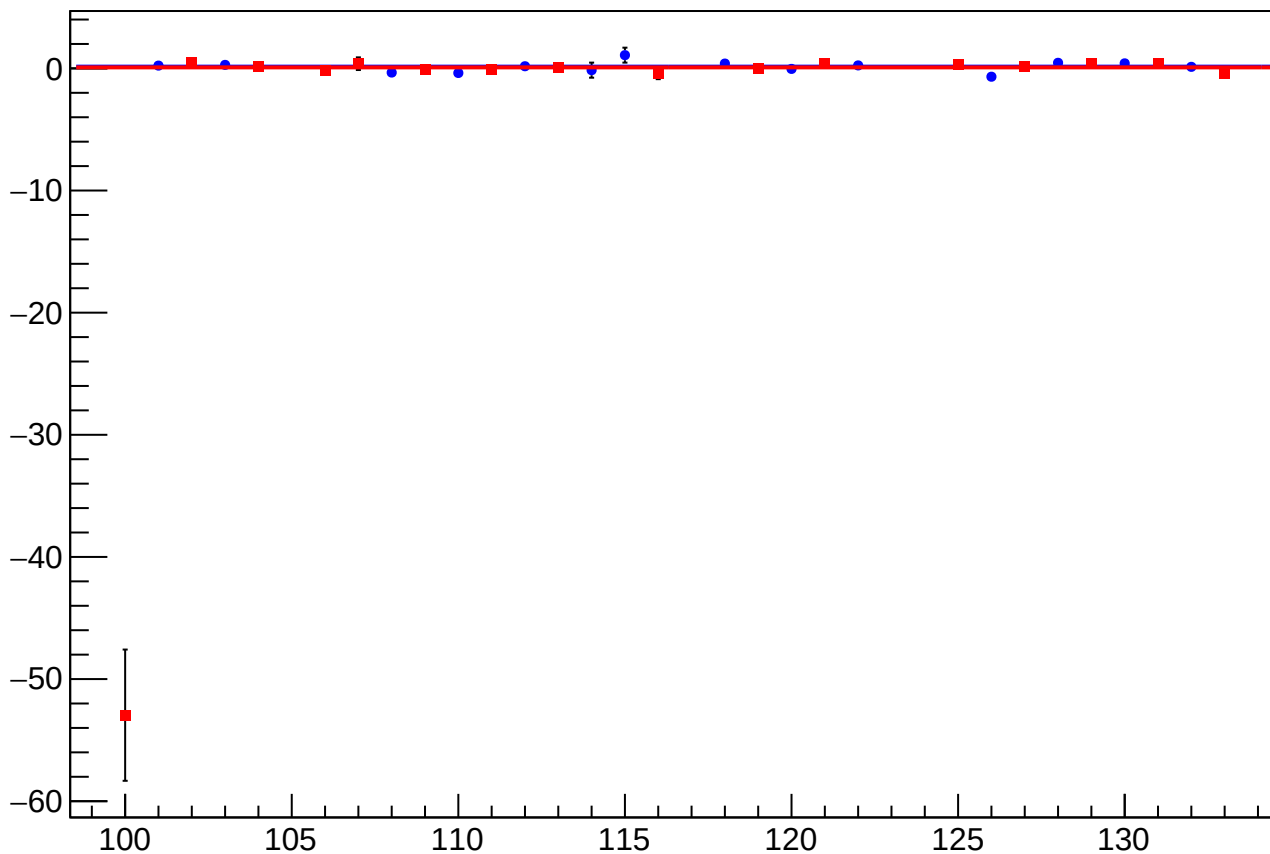
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.206 $\pm$ 0.055  $\chi^2$ /NDF: 24.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.143+/-0.088  $\chi^2/\text{NDF}$ : 15.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.082+/-0.085  $\chi^2/\text{NDF}$ : 108.9/15

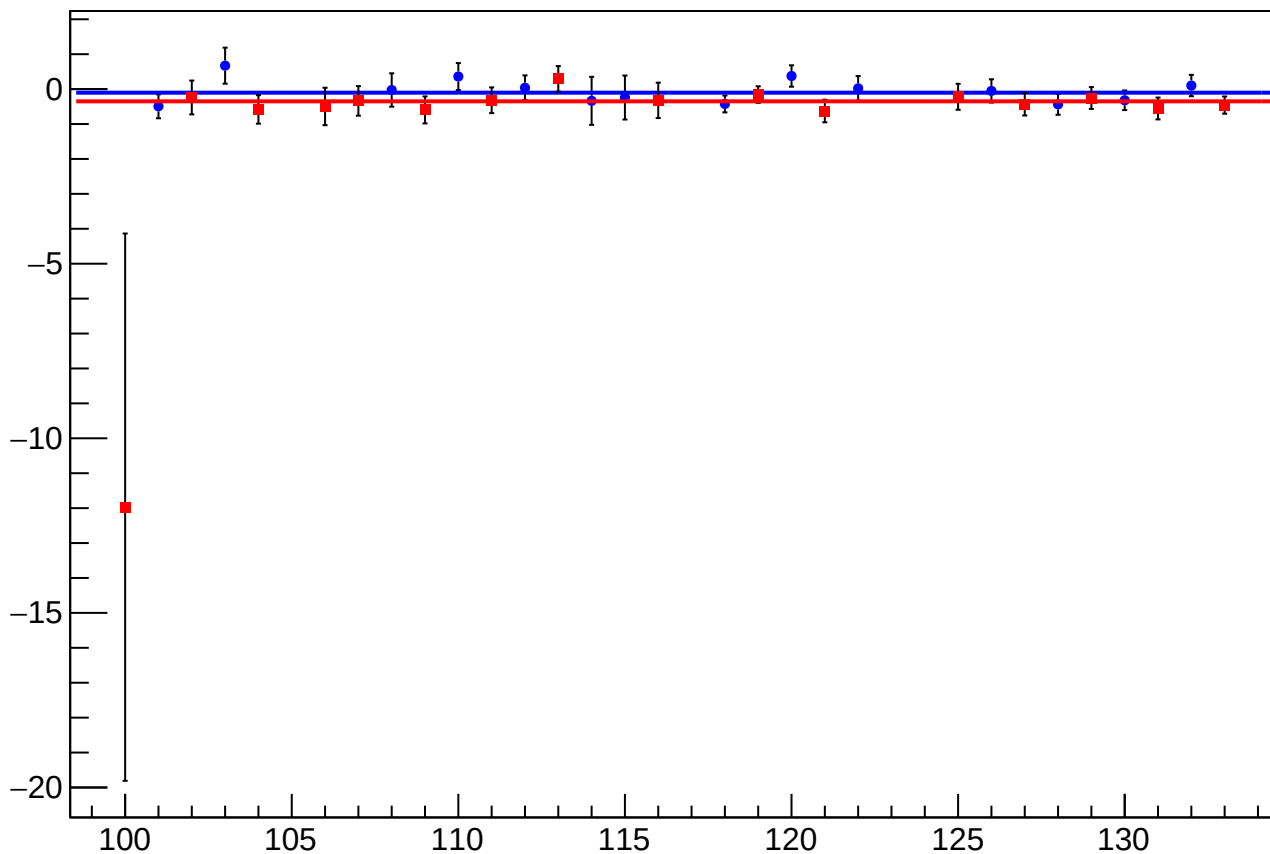
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.111+/-0.061  $\chi^2/\text{NDF}$ : 124.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.102 \pm 0.093$   $\chi^2/\text{NDF}$ : 12.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.350 \pm 0.089$   $\chi^2/\text{NDF}$ : 8.5/15

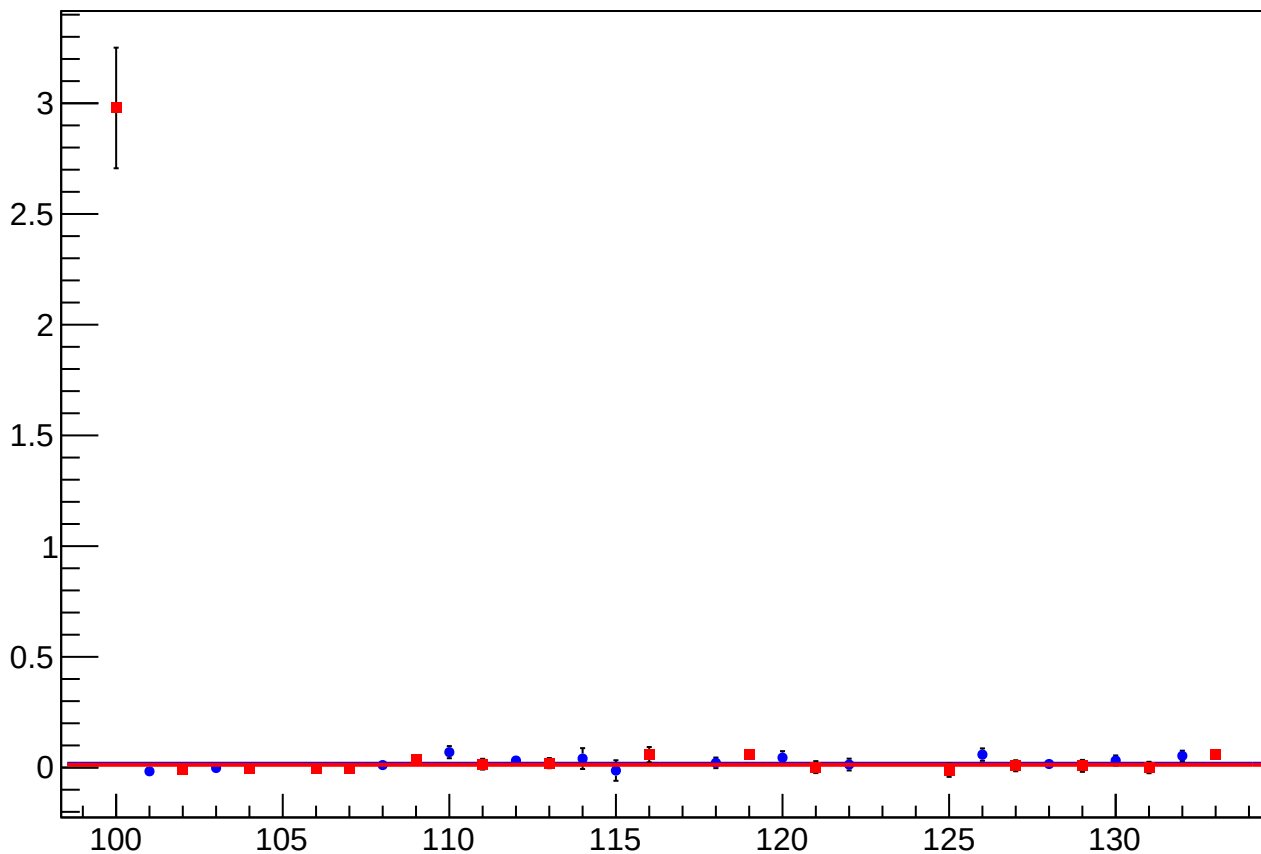
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.231 \pm 0.064$   $\chi^2/\text{NDF}$ : 24.2/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.017 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 17.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 136.8/15

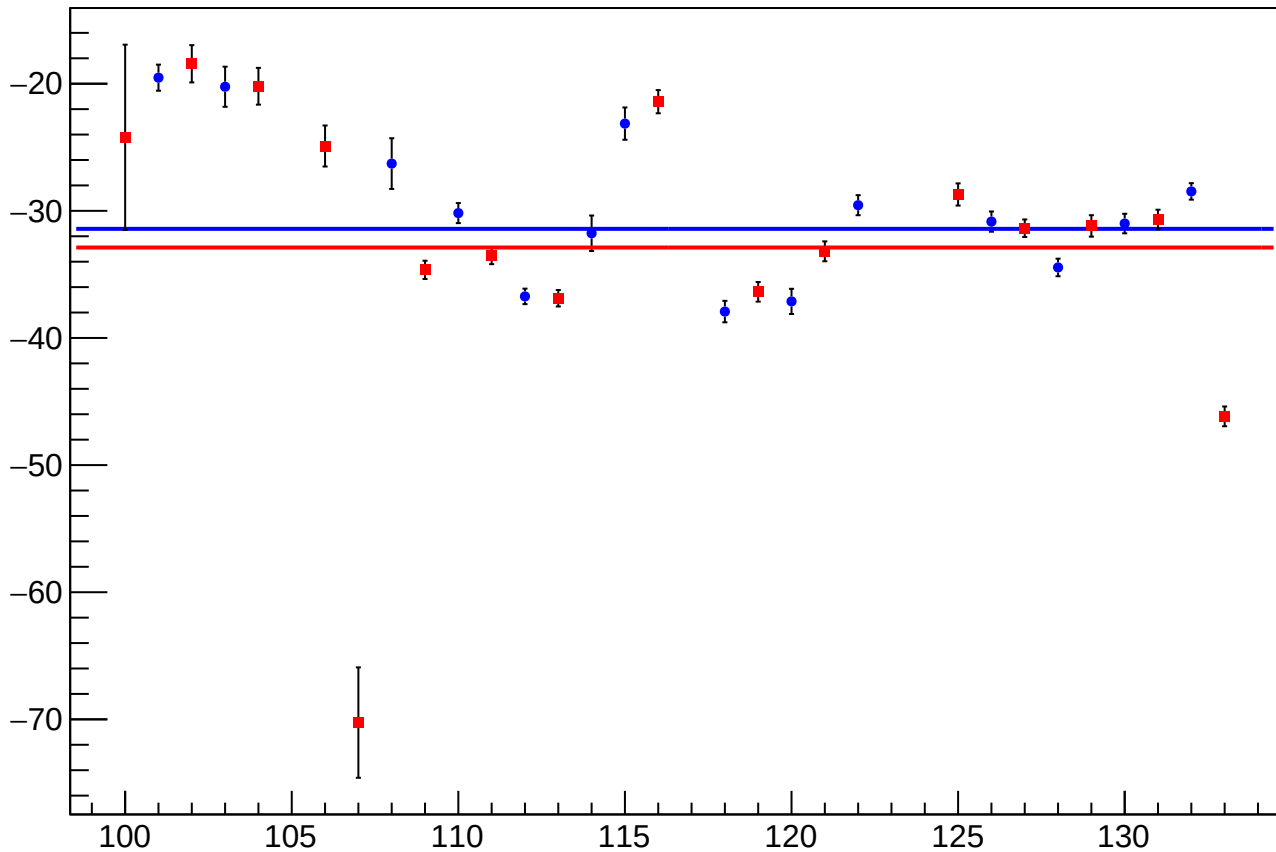
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015 $\pm$ 0.004  $\chi^2/\text{NDF}$ : 154.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -31.416 $\pm$ 0.231  $\chi^2$ /NDF: 451.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -32.885 $\pm$ 0.220  $\chi^2$ /NDF: 828.8/15

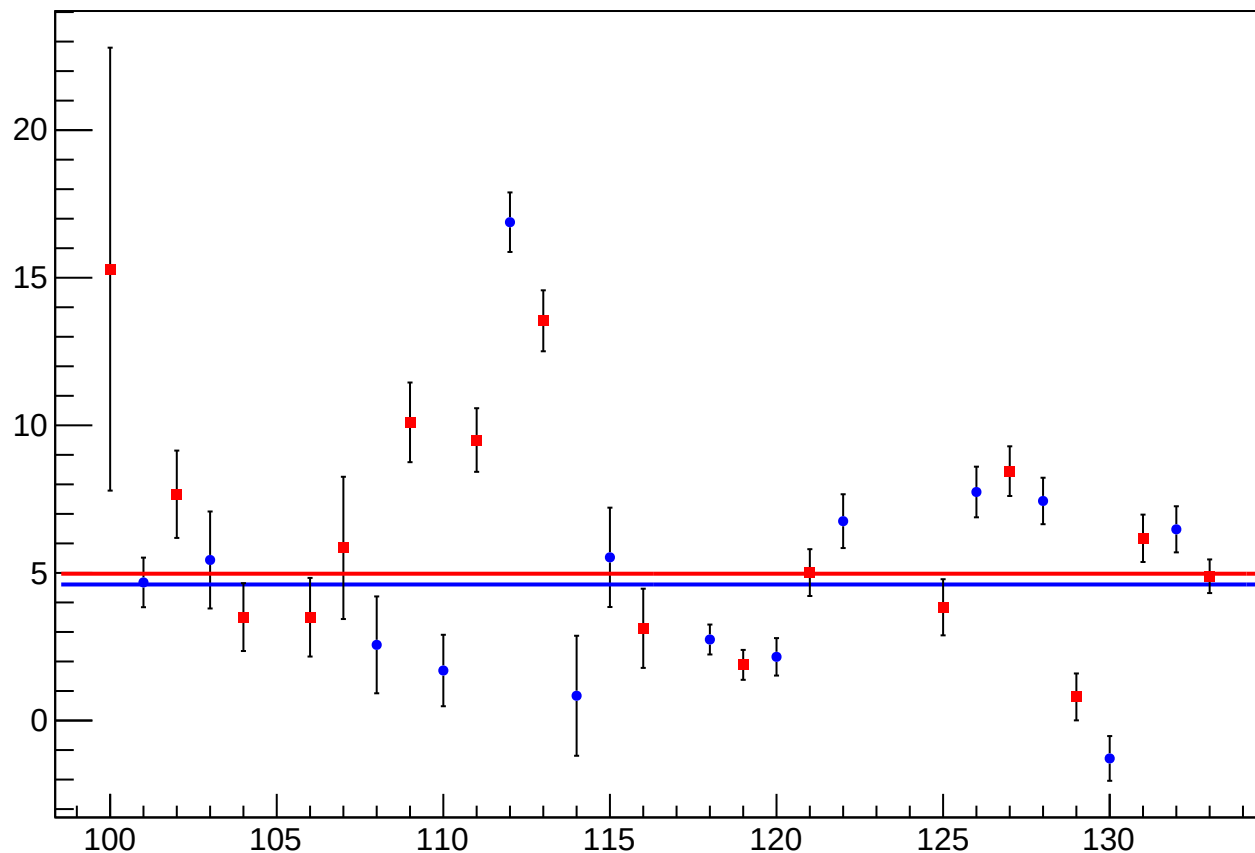
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -32.184 $\pm$ 0.159  $\chi^2$ /NDF: 1301.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 4.609 $\pm$ 0.233  $\chi^2$ /NDF: 285.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.973 $\pm$ 0.229  $\chi^2$ /NDF: 196.5/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

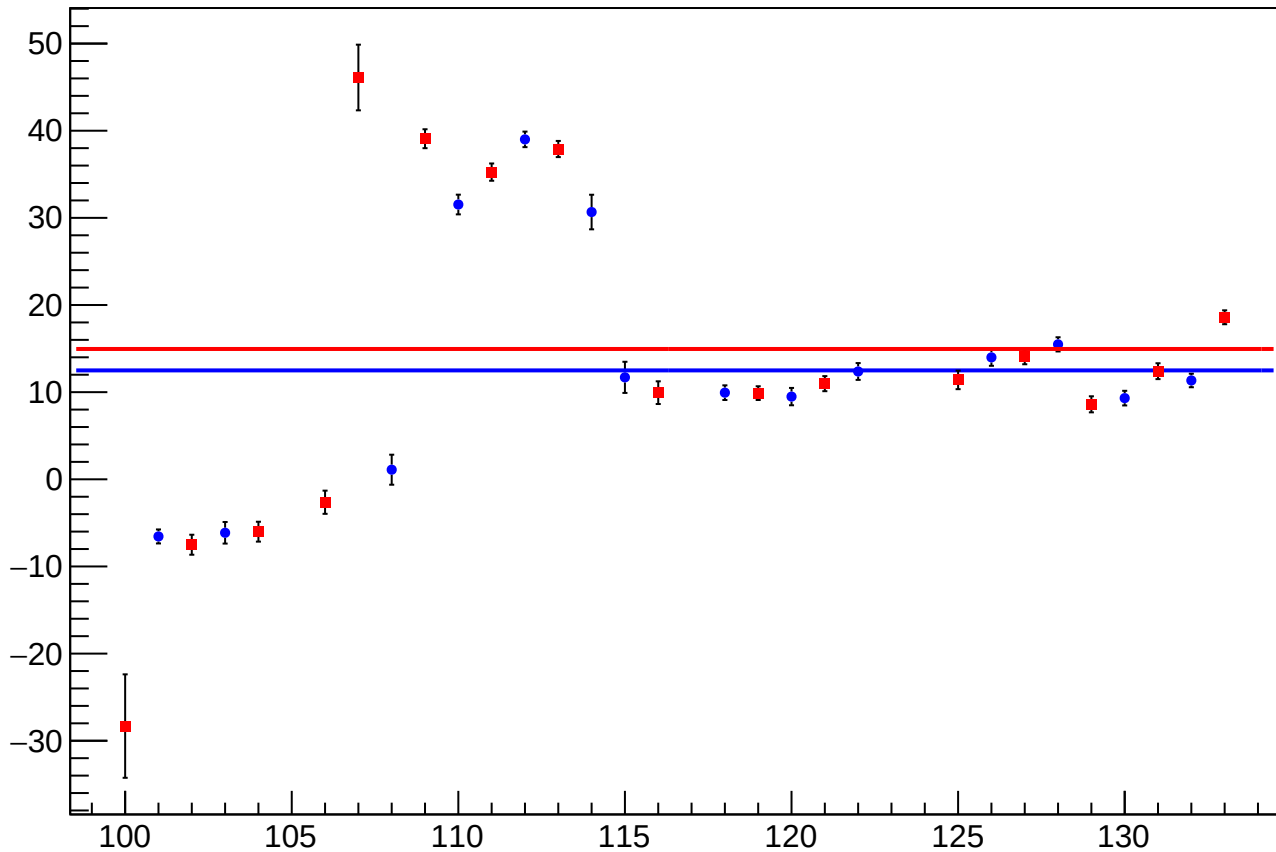
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.795 $\pm$ 0.163  $\chi^2$ /NDF: 483.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 12.497+/-0.265  $\chi^2$ /NDF: 2134.5/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.955+/-0.258  $\chi^2$ /NDF: 2708.4/15

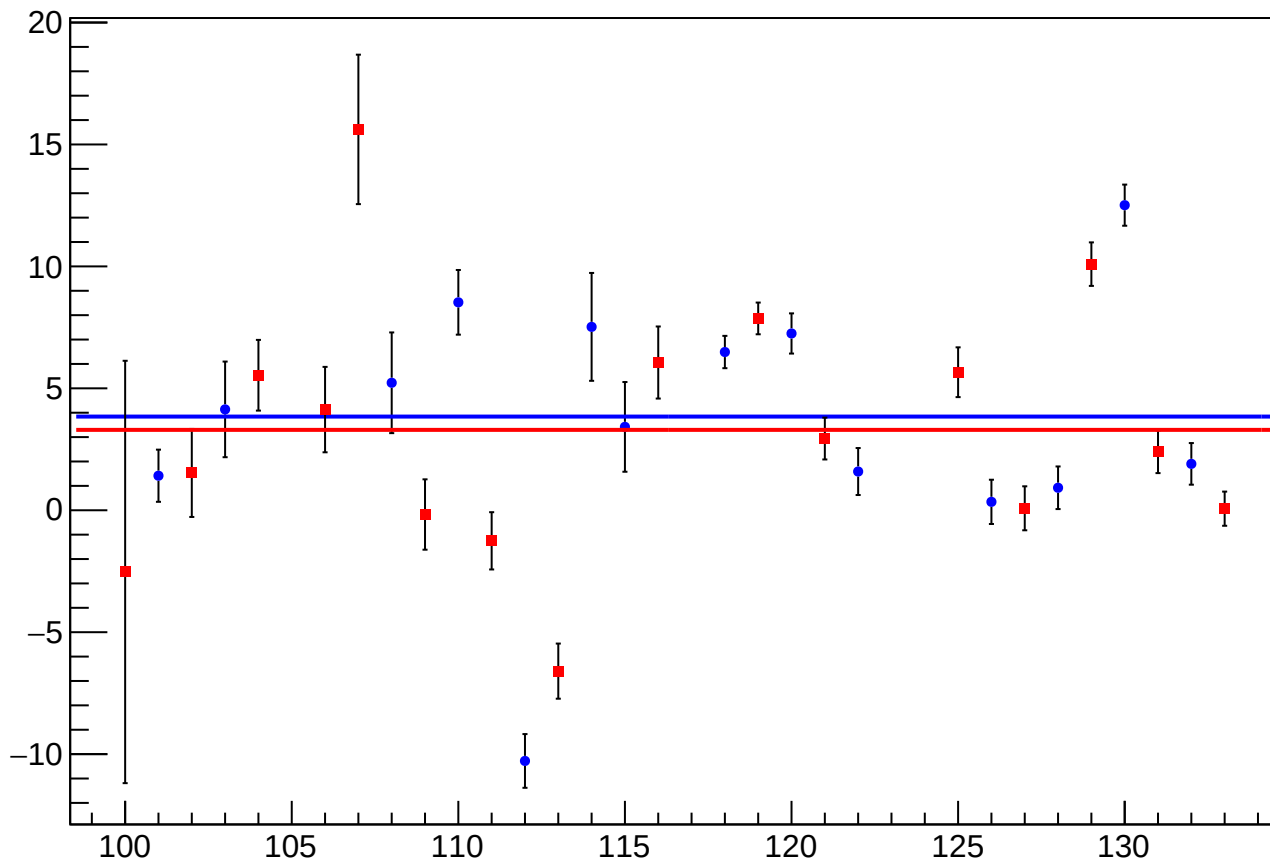
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 13.756+/-0.185  $\chi^2$ /NDF: 4887.2/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $3.842 \pm 0.273$   $\chi^2/\text{NDF}$ : 360.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $3.296 \pm 0.265$   $\chi^2/\text{NDF}$ : 269.1/15

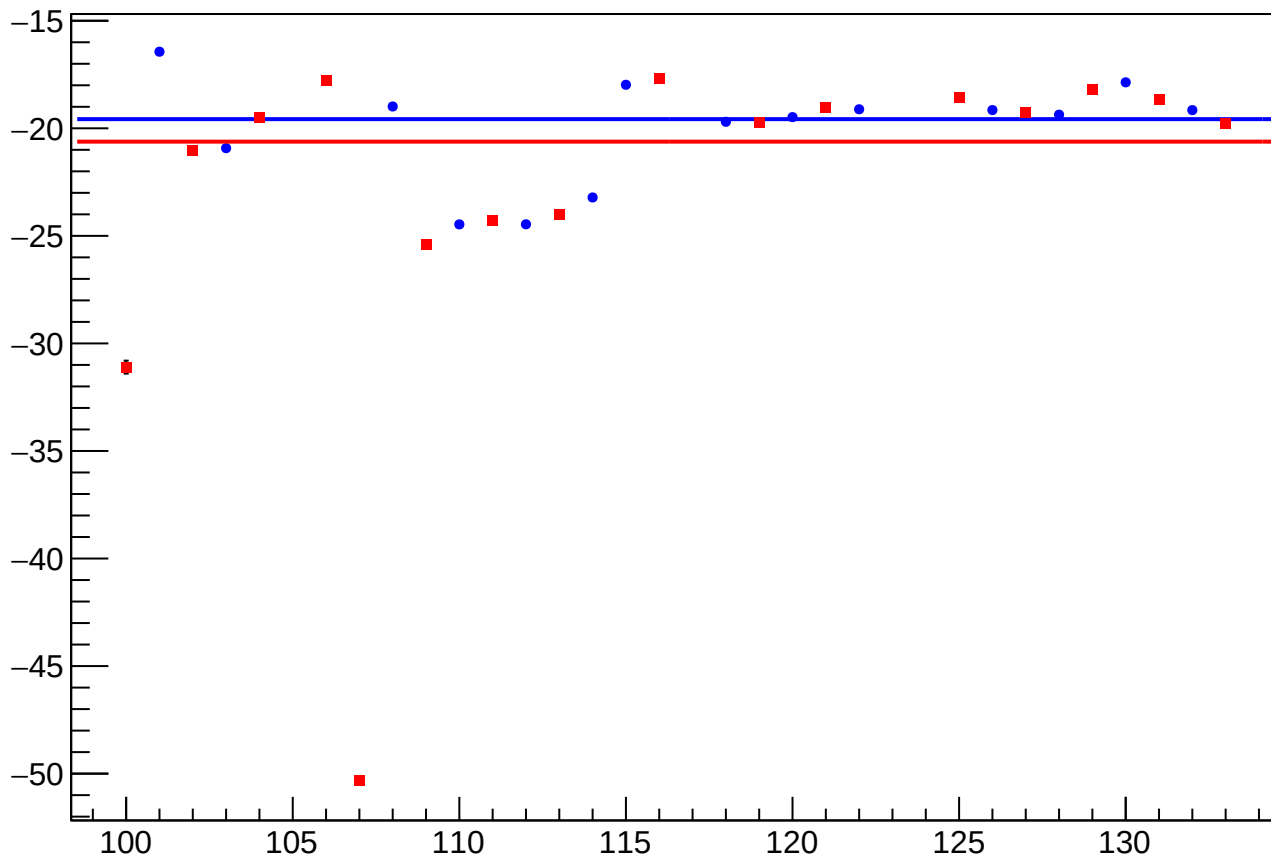
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $3.561 \pm 0.190$   $\chi^2/\text{NDF}$ : 631.7/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -19.574 $\pm$ 0.019  $\chi^2$ /NDF: 14116.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -20.620 $\pm$ 0.018  $\chi^2$ /NDF: 54082.1/15

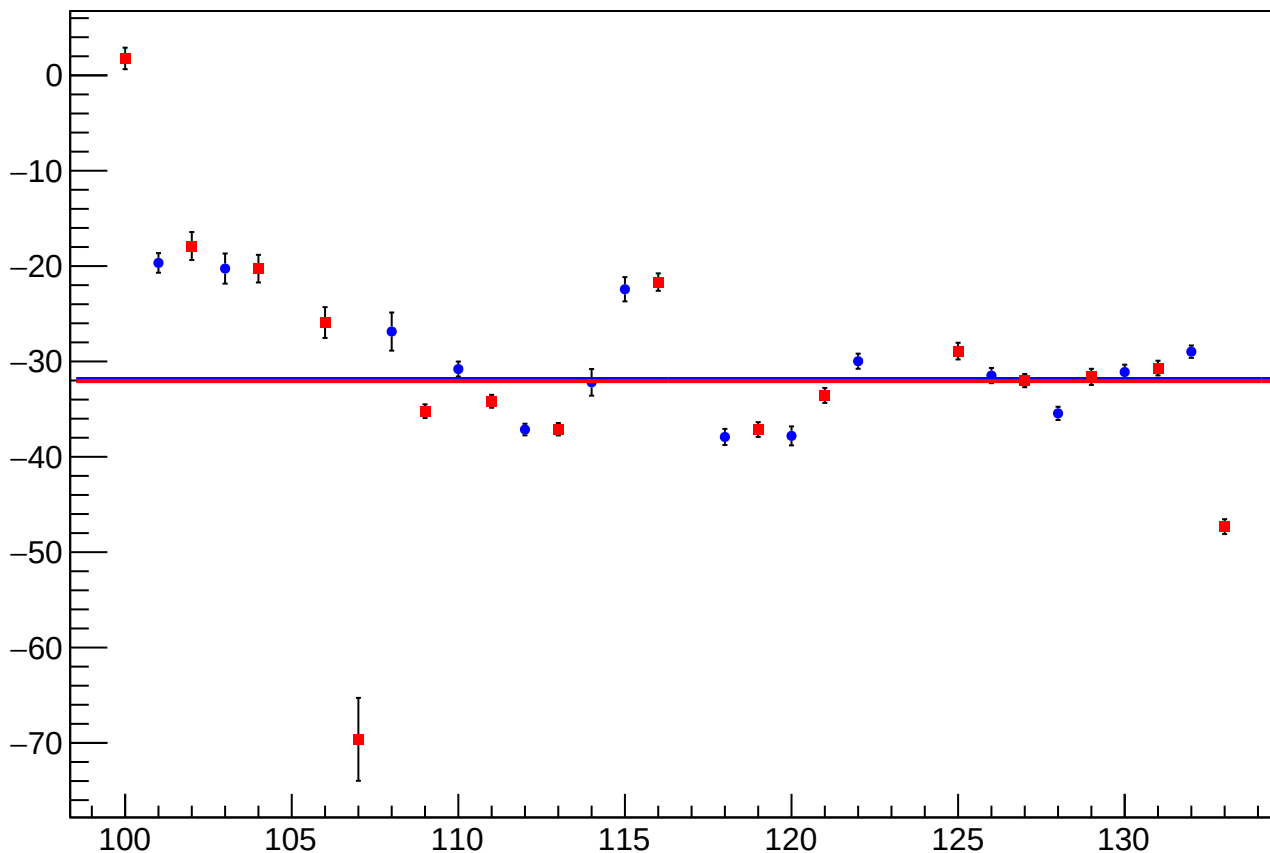
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -20.121 $\pm$ 0.013  $\chi^2$ /NDF: 69828.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-31.842 \pm 0.231$   $\chi^2/\text{NDF}$ : 472.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-32.064 \pm 0.217$   $\chi^2/\text{NDF}$ : 1812.1/15

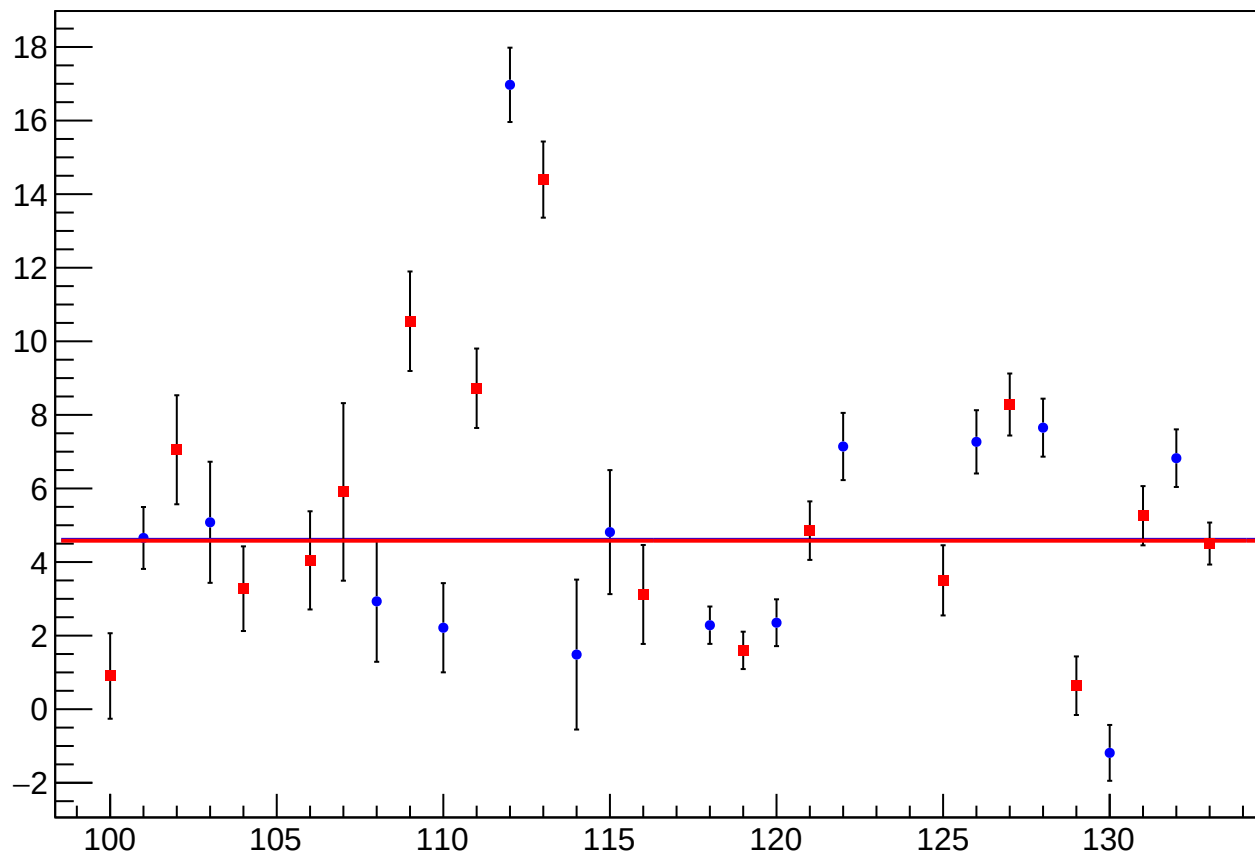
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-31.960 \pm 0.158$   $\chi^2/\text{NDF}$ : 2285.4/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 4.603 $\pm$ 0.234  $\chi^2$ /NDF: 289.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.581 $\pm$ 0.225  $\chi^2$ /NDF: 220.2/15

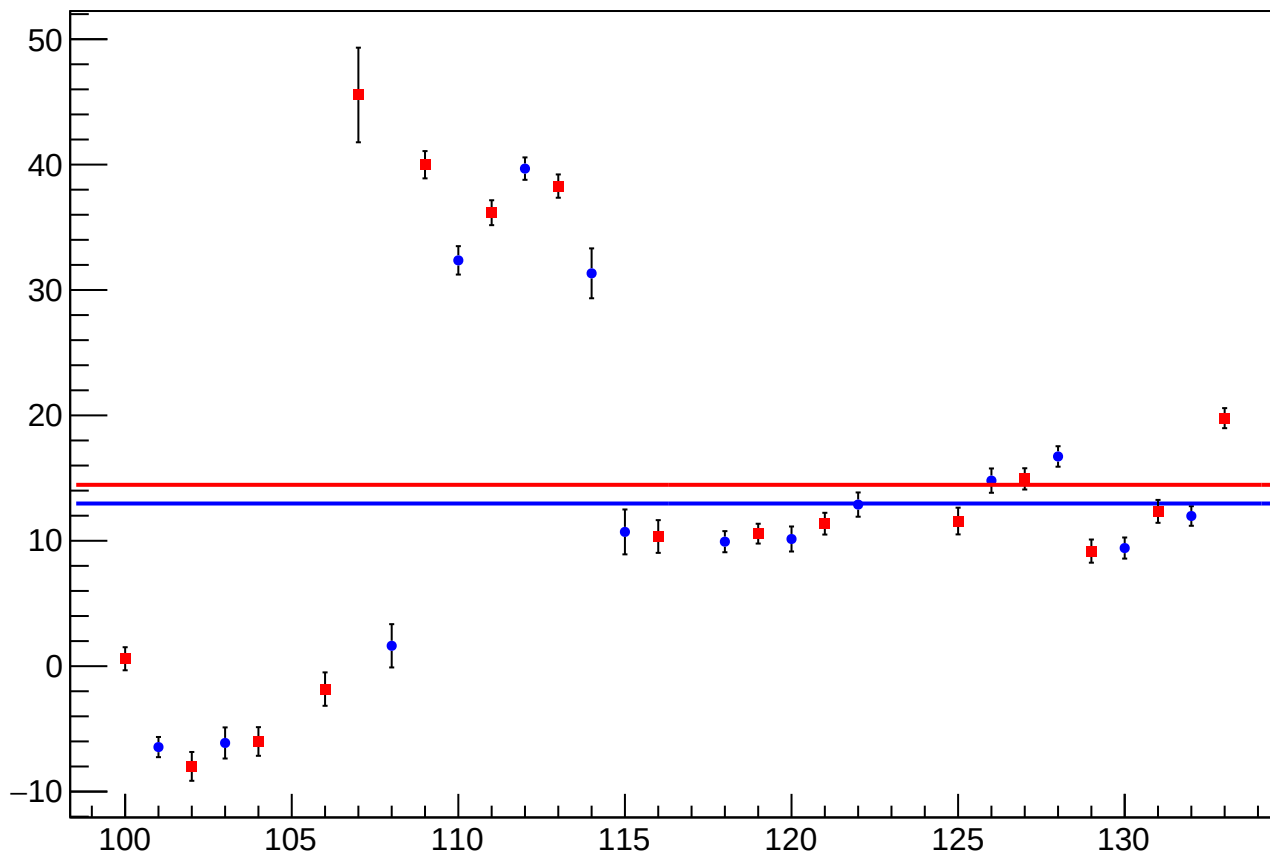
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.591 $\pm$ 0.162  $\chi^2$ /NDF: 509.3/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 12.972 $\pm$ 0.265  $\chi^2$ /NDF: 2201.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.462 $\pm$ 0.249  $\chi^2$ /NDF: 2969.9/15

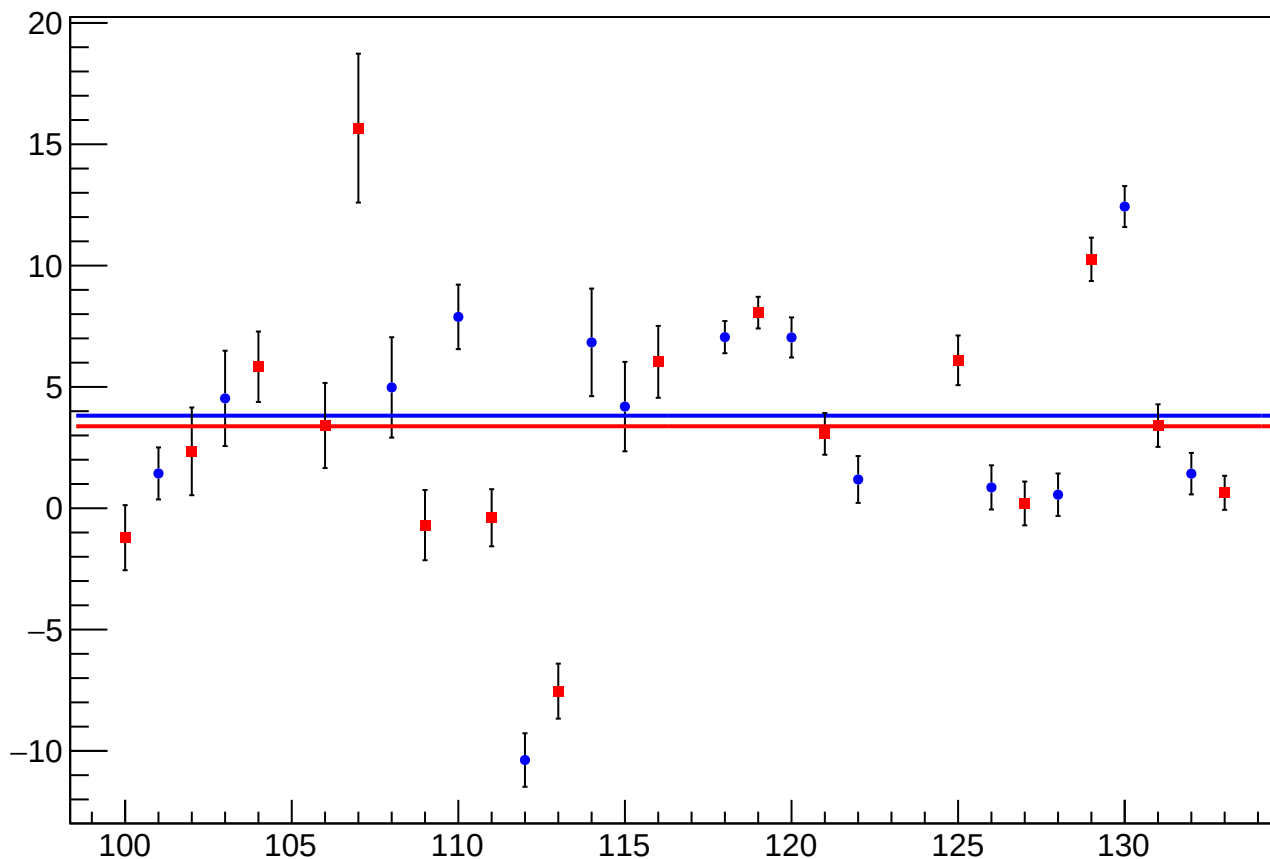
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 13.763 $\pm$ 0.182  $\chi^2$ /NDF: 5187.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 3.815 $\pm$ 0.274  $\chi^2$ /NDF: 364.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.379 $\pm$ 0.261  $\chi^2$ /NDF: 290.8/15

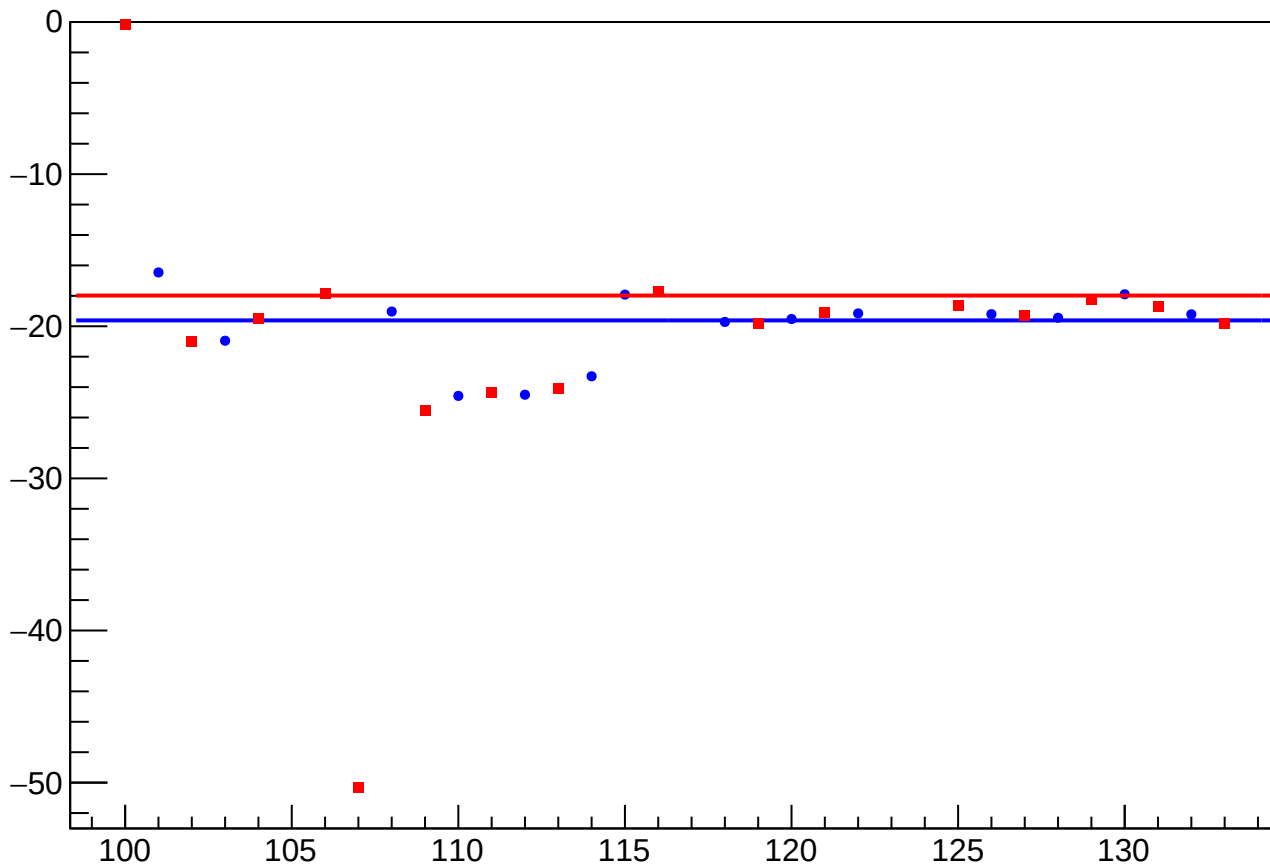
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.587 $\pm$ 0.189  $\chi^2$ /NDF: 656.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.615 \pm 0.019$   $\chi^2/\text{NDF}$ : 14186.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-17.980 \pm 0.017$   $\chi^2/\text{NDF}$ : 220706.2/15

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

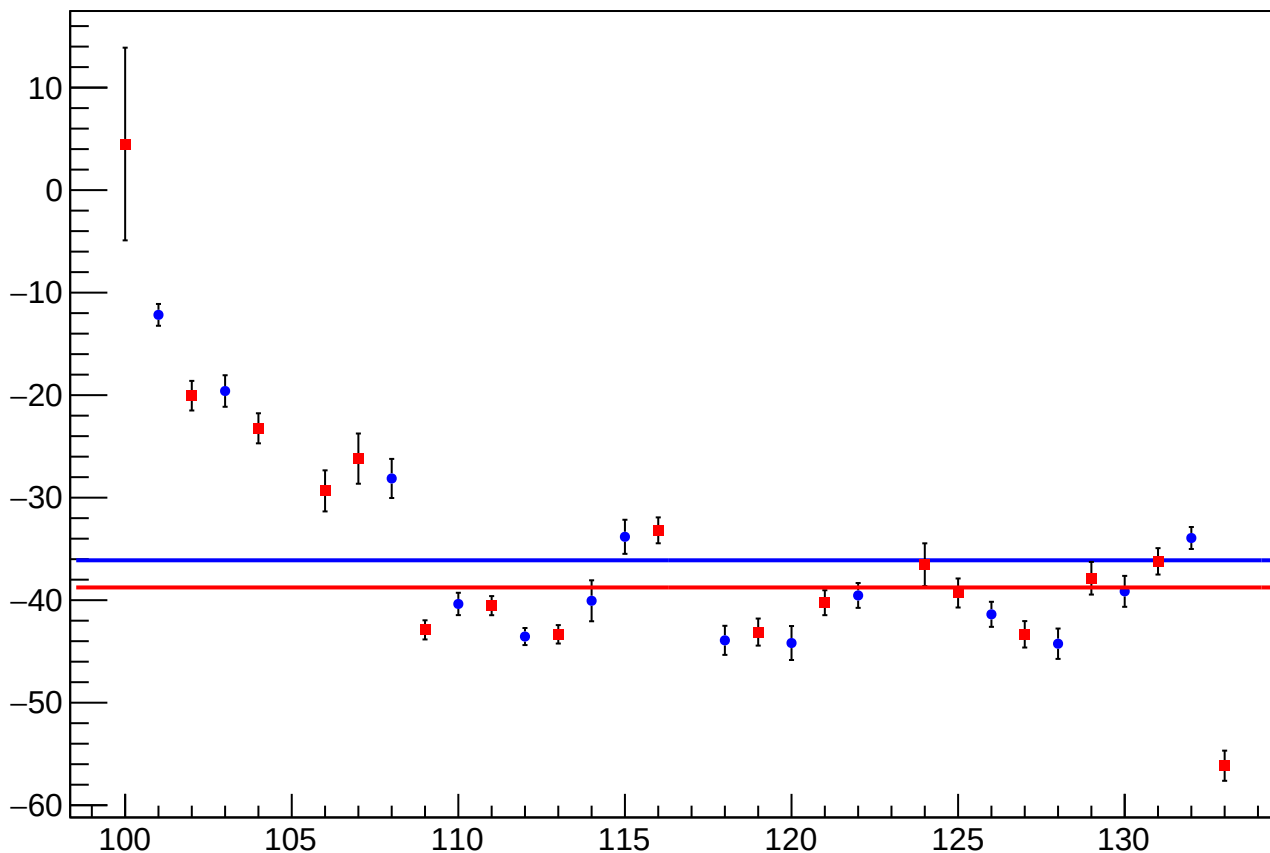
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-18.705 \pm 0.013$   $\chi^2/\text{NDF}$ : 239110.4/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-36.110 \pm 0.344$   $\chi^2/\text{NDF}$ : 859.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-38.759 \pm 0.323$   $\chi^2/\text{NDF}$ : 588.3/16

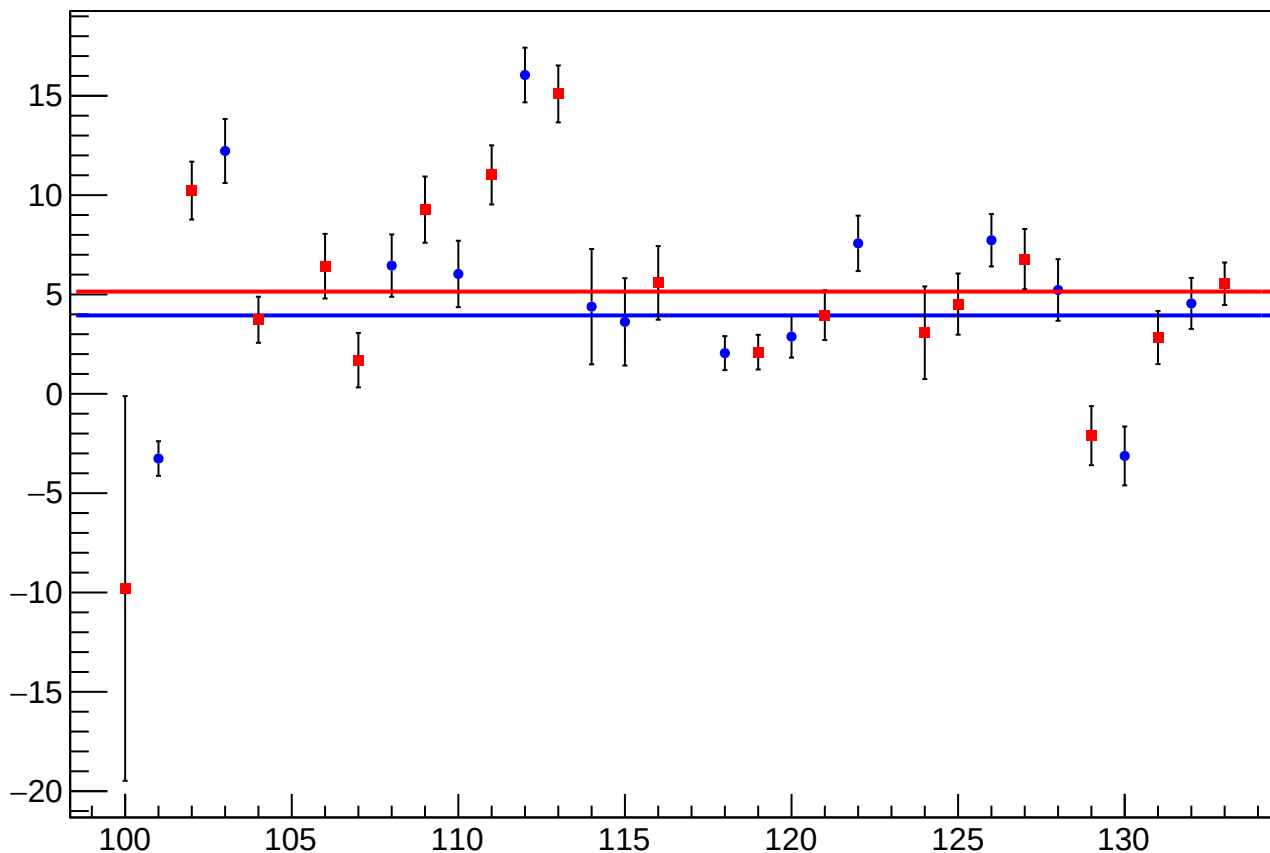
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-37.516 \pm 0.235$   $\chi^2/\text{NDF}$ : 1478.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 3.946 $\pm$ 0.350  $\chi^2$ /NDF: 220.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.146 $\pm$ 0.341  $\chi^2$ /NDF: 135.1/16

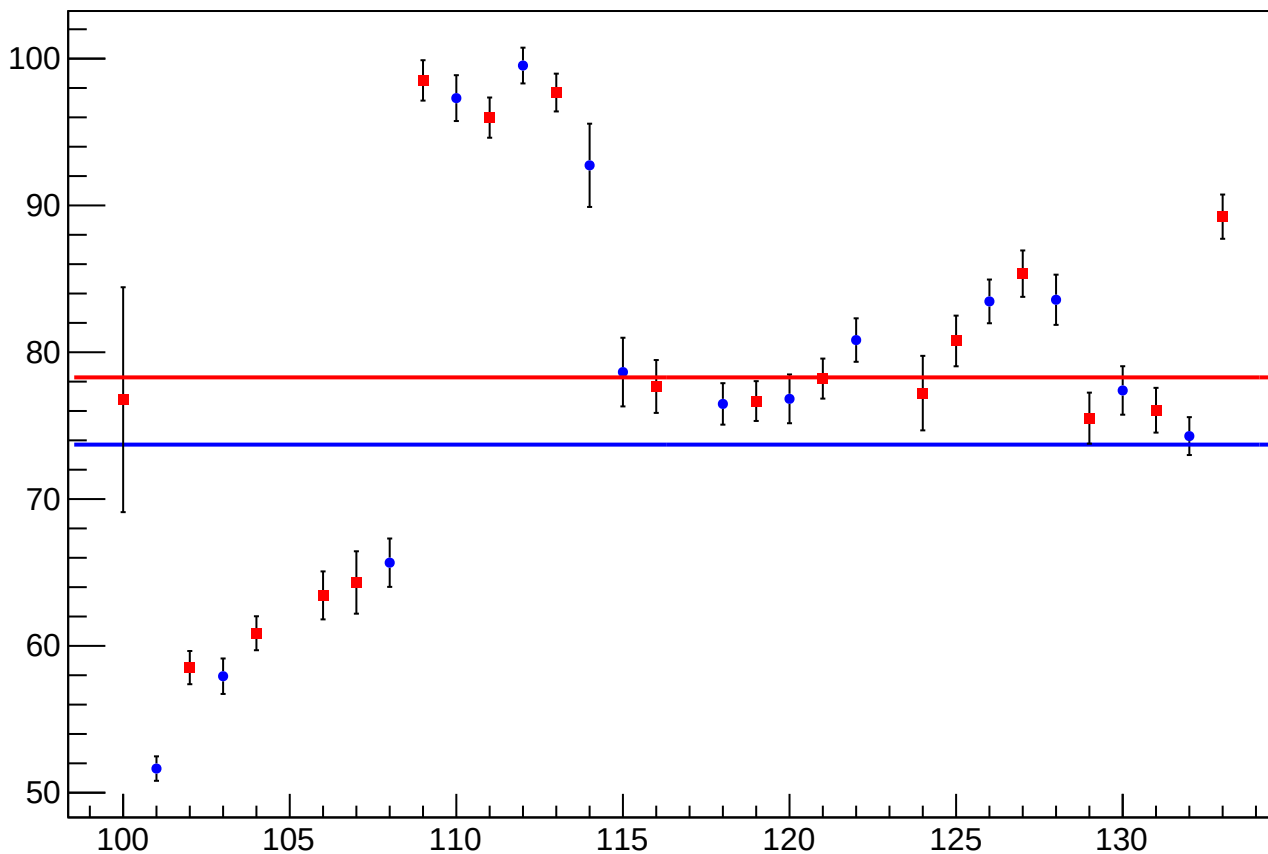
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.562 $\pm$ 0.244  $\chi^2$ /NDF: 362.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 73.709+/-0.379  $\chi^2/\text{NDF}$ : 1735.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 78.288+/-0.370  $\chi^2/\text{NDF}$ : 1349.8/16

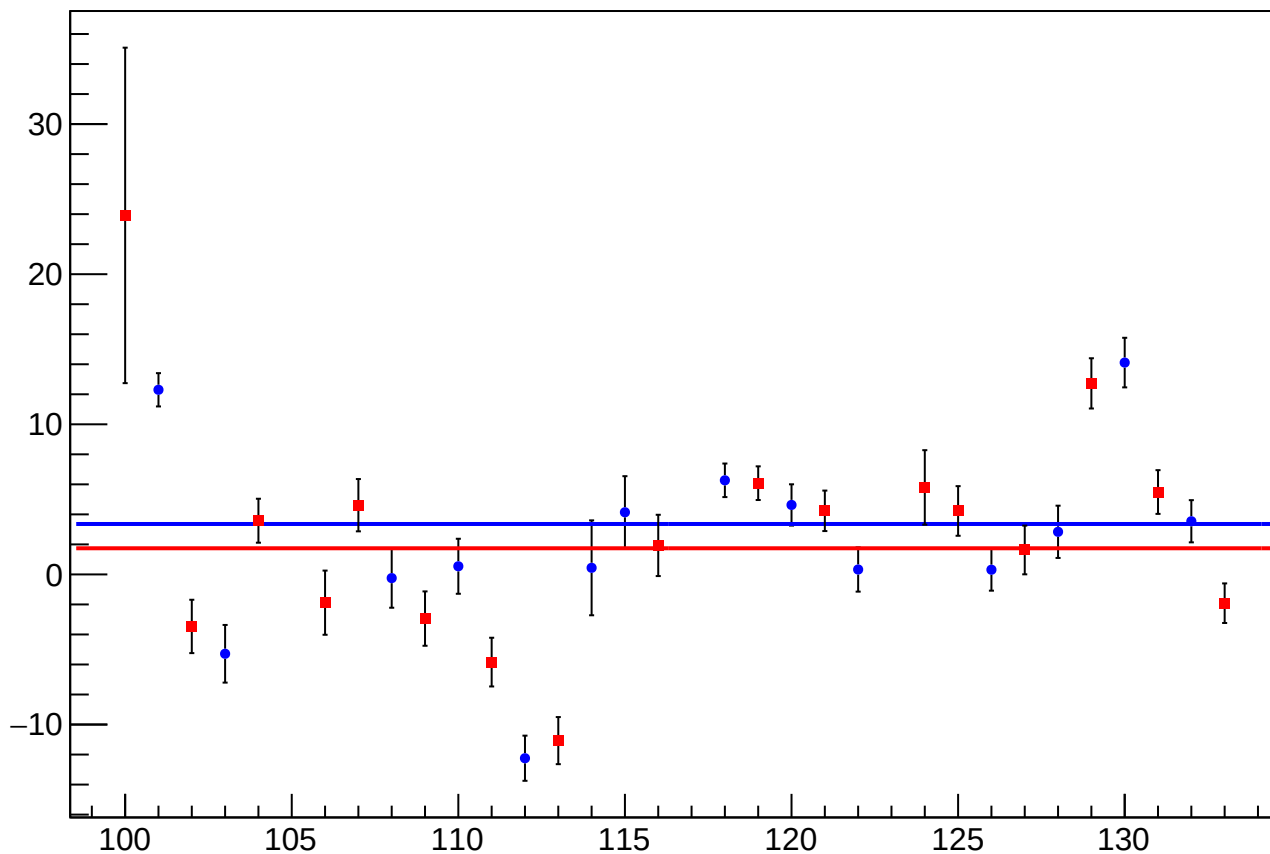
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 76.051+/-0.265  $\chi^2/\text{NDF}$ : 3160.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $3.360 \pm 0.413$   $\chi^2/\text{NDF}$ : 258.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1.742 \pm 0.398$   $\chi^2/\text{NDF}$ : 195.6/16

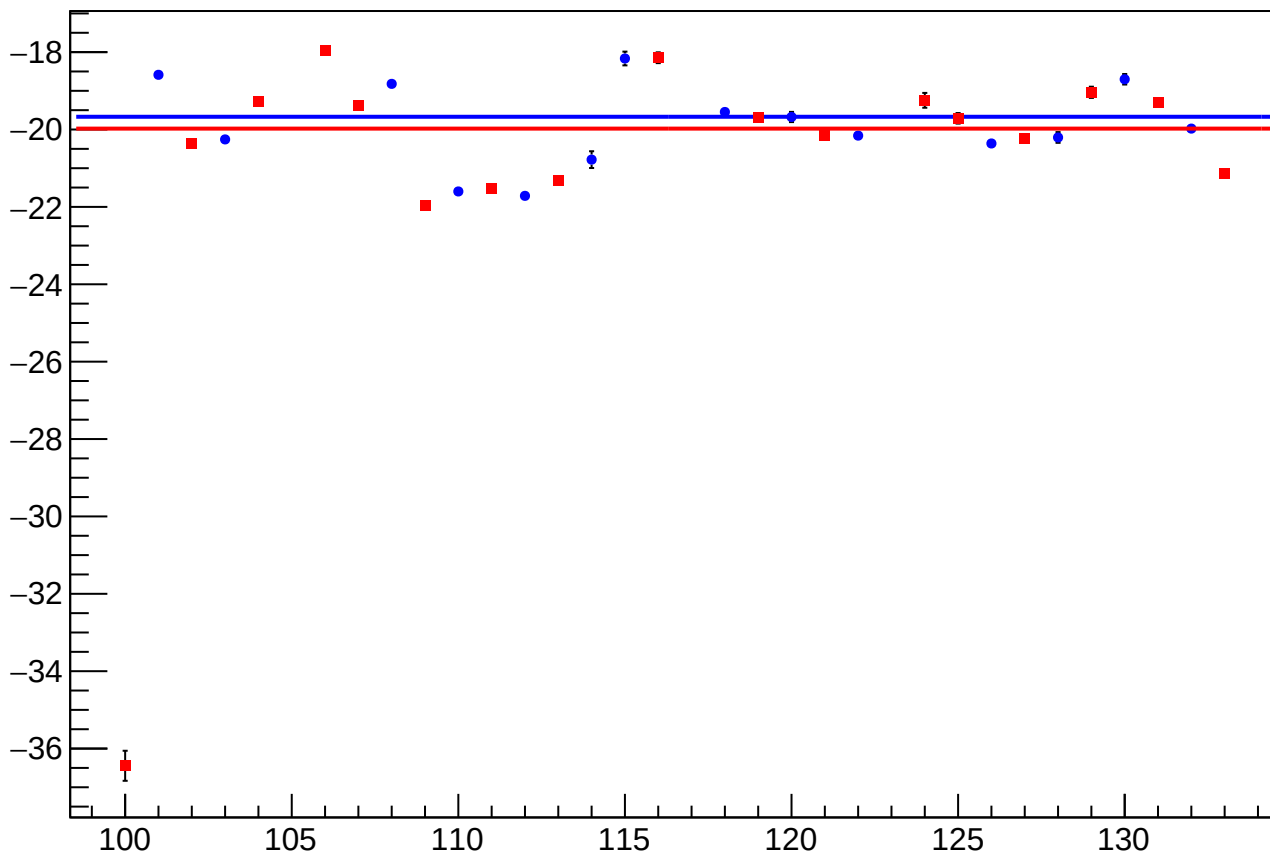
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $2.520 \pm 0.286$   $\chi^2/\text{NDF}$ : 462.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.671 \pm 0.024$   $\chi^2/\text{NDF}: 1678.7/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-19.977 \pm 0.023$   $\chi^2/\text{NDF}: 3972.3/16$

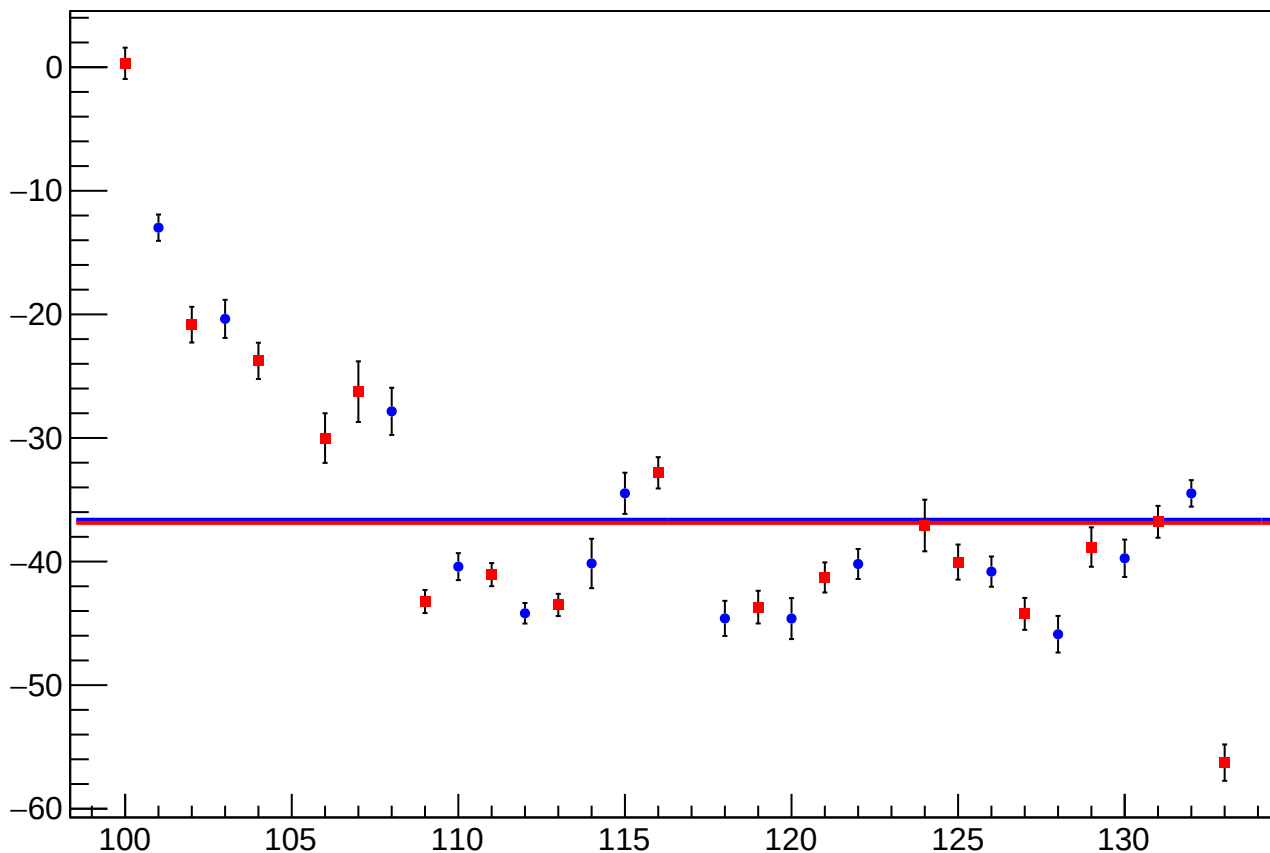
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-19.831 \pm 0.017$   $\chi^2/\text{NDF}: 5735.8/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_right\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -36.616+/-0.344  $\chi^2/\text{NDF}$ : 845.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -36.869+/-0.314  $\chi^2/\text{NDF}$ : 1477.0/16

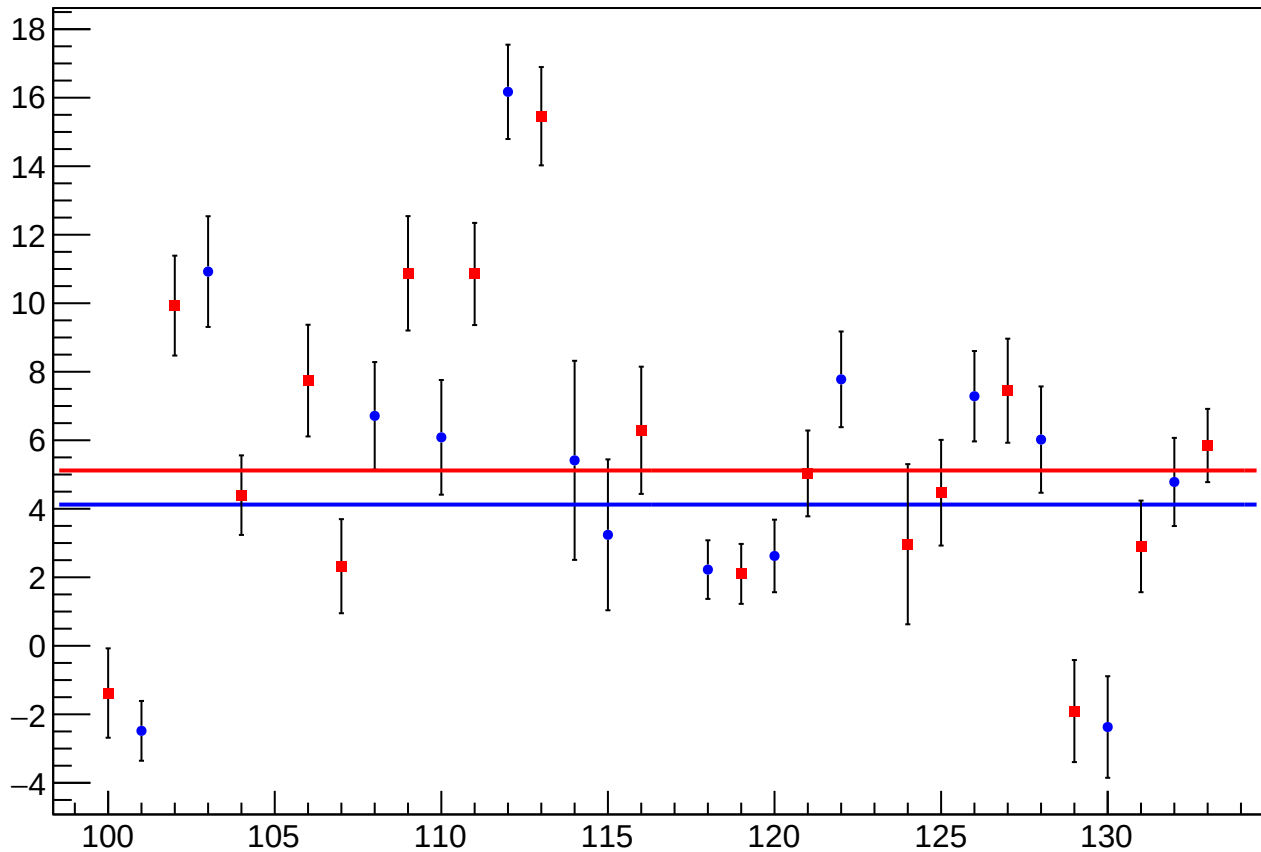
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -36.754+/-0.232  $\chi^2/\text{NDF}$ : 2323.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 4.123+/-0.351  $\chi^2/\text{NDF}$ : 196.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.118+/-0.330  $\chi^2/\text{NDF}$ : 162.6/16

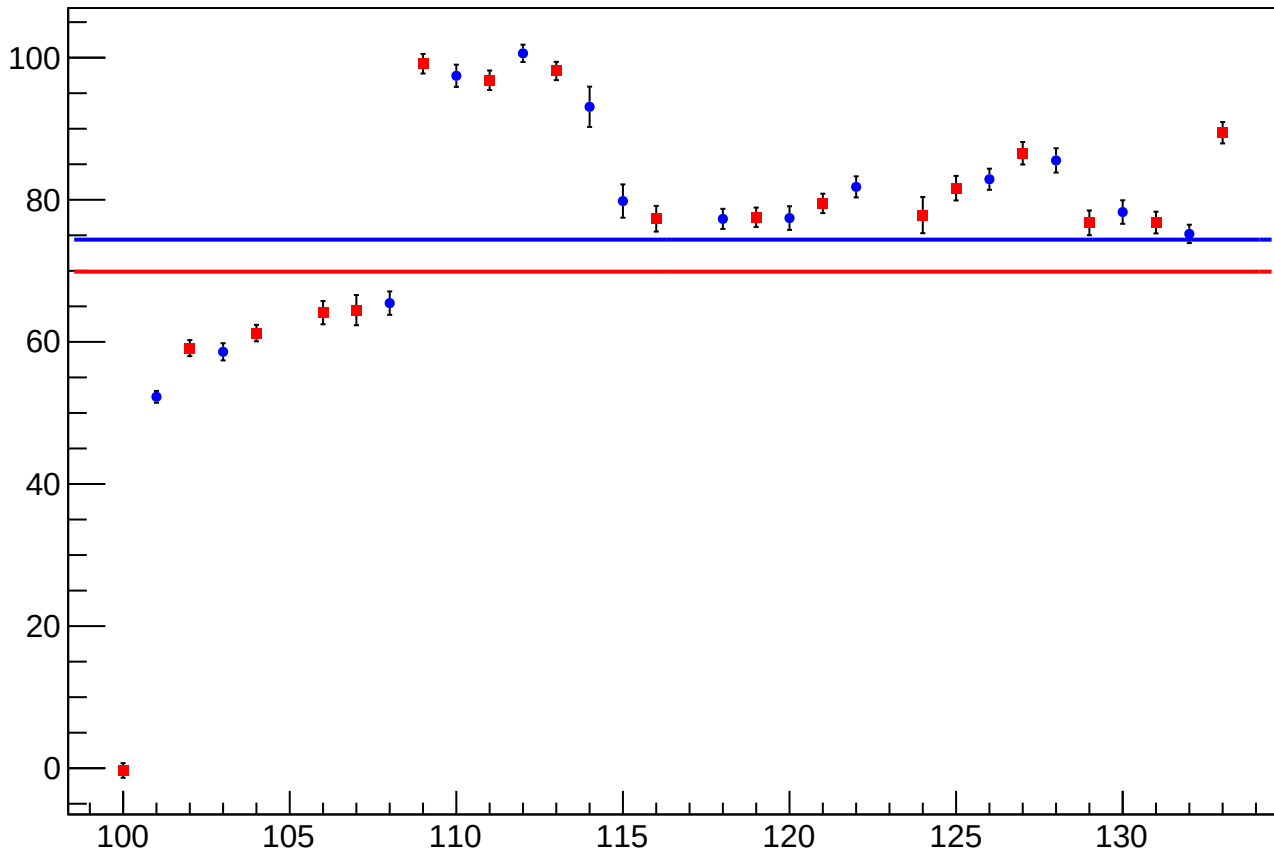
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.650+/-0.241  $\chi^2/\text{NDF}$ : 363.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 74.392+/-0.379  $\chi^2$ /NDF: 1745.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 69.886+/-0.349  $\chi^2$ /NDF: 6567.5/16

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

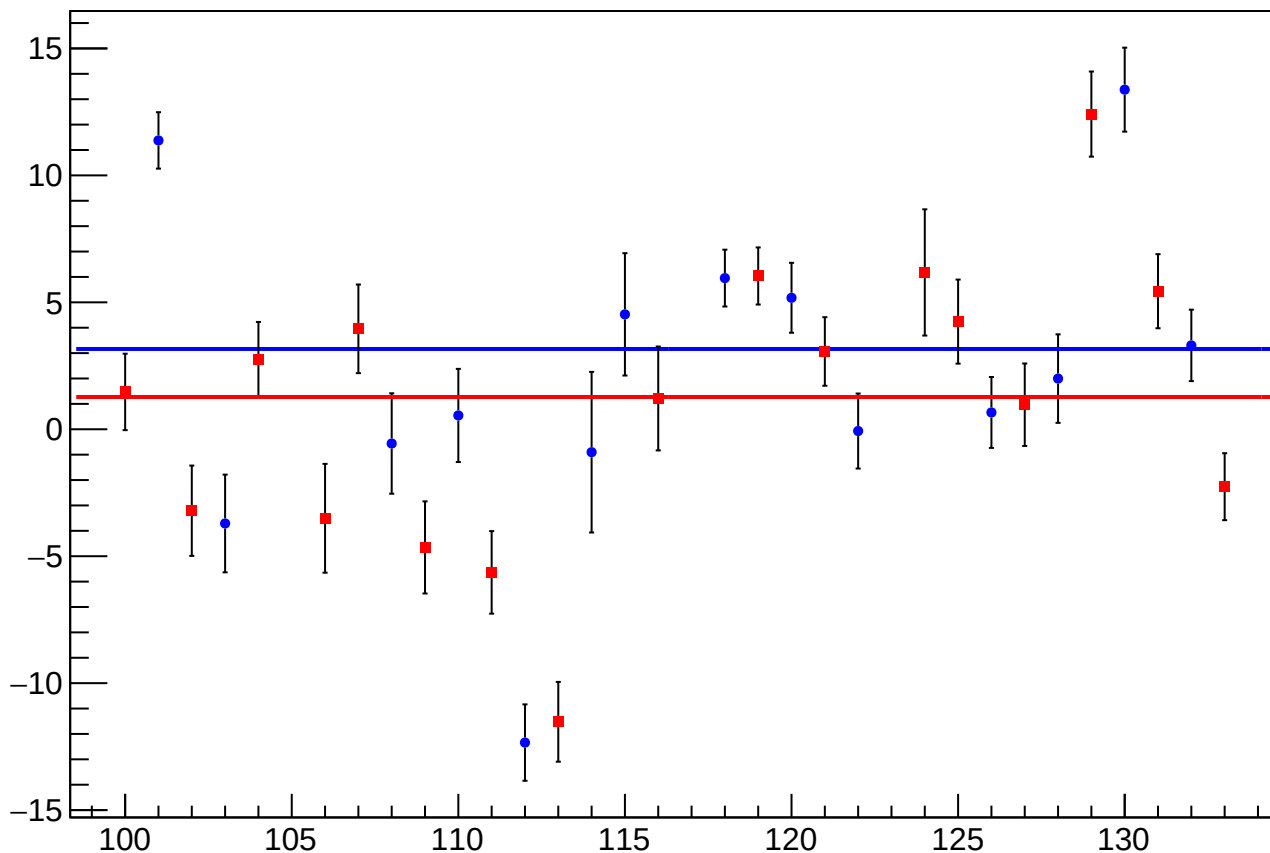
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 71.954+/-0.257  $\chi^2$ /NDF: 8389.1/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $3.163 \pm 0.414$   $\chi^2/\text{NDF}$ : 236.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $1.272 \pm 0.385$   $\chi^2/\text{NDF}$ : 196.1/16

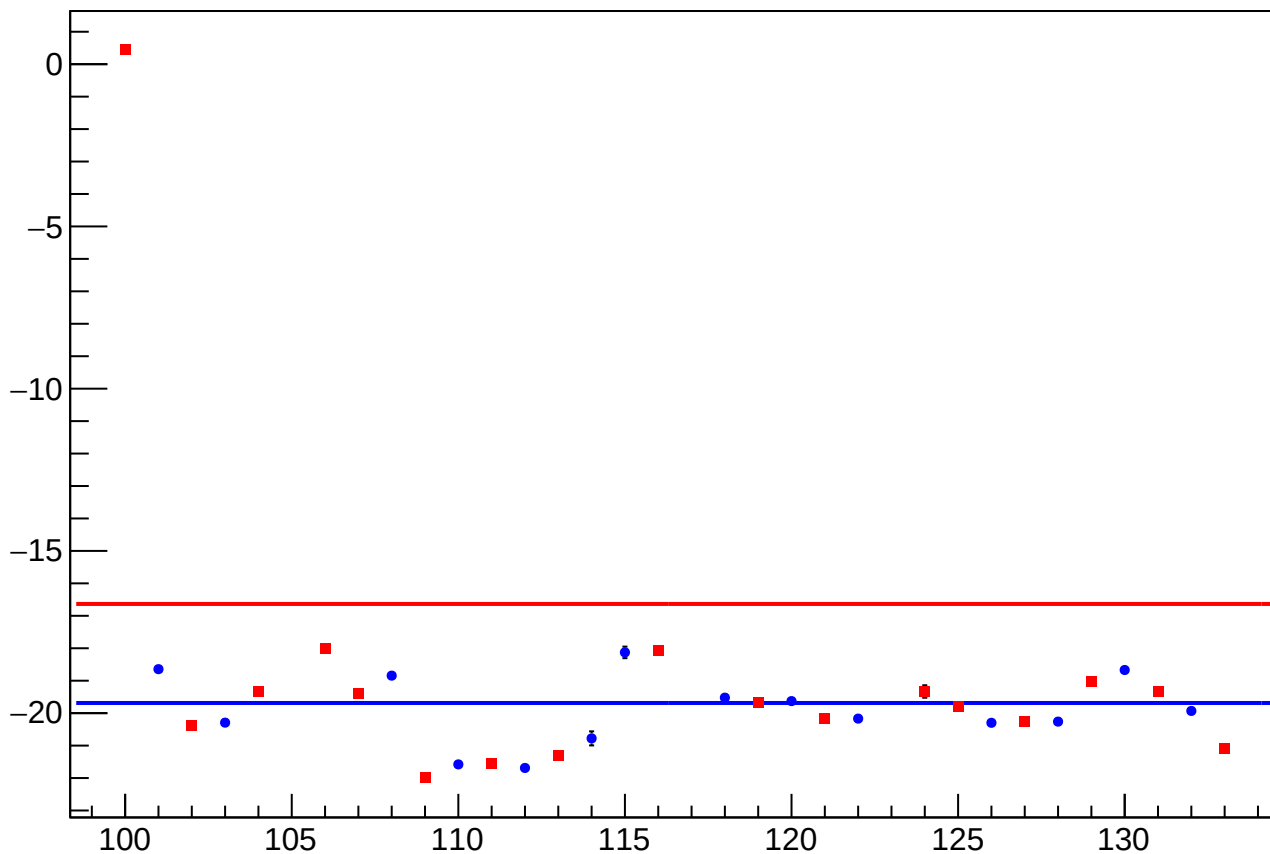
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $2.150 \pm 0.282$   $\chi^2/\text{NDF}$ : 443.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -19.686 $\pm$ 0.024  $\chi^2$ /NDF: 1619.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -16.635 $\pm$ 0.021  $\chi^2$ /NDF: 129469.6/16

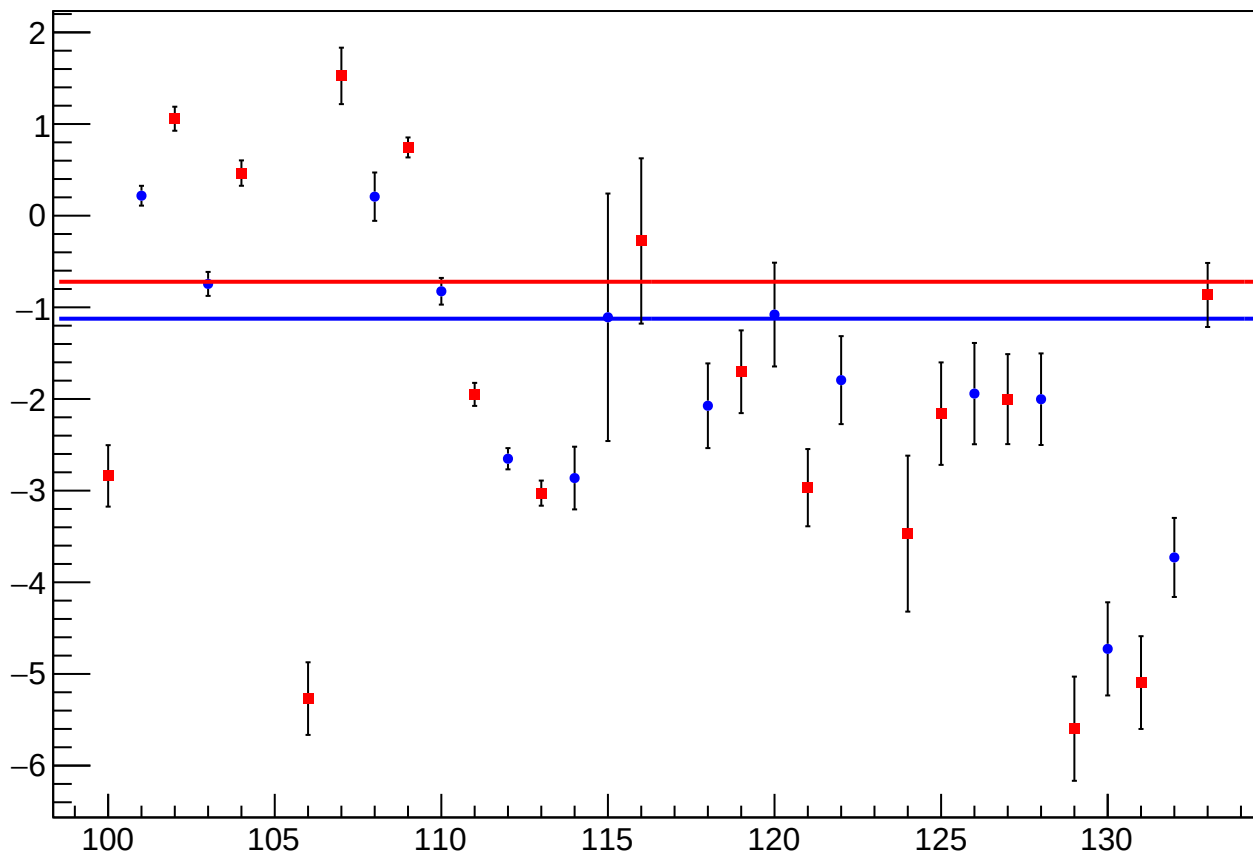
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.956 $\pm$ 0.016  $\chi^2$ /NDF: 140172.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -1.124+/-0.056  $\chi^2$ /NDF: 490.1/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.721+/-0.052  $\chi^2$ /NDF: 1247.6/16

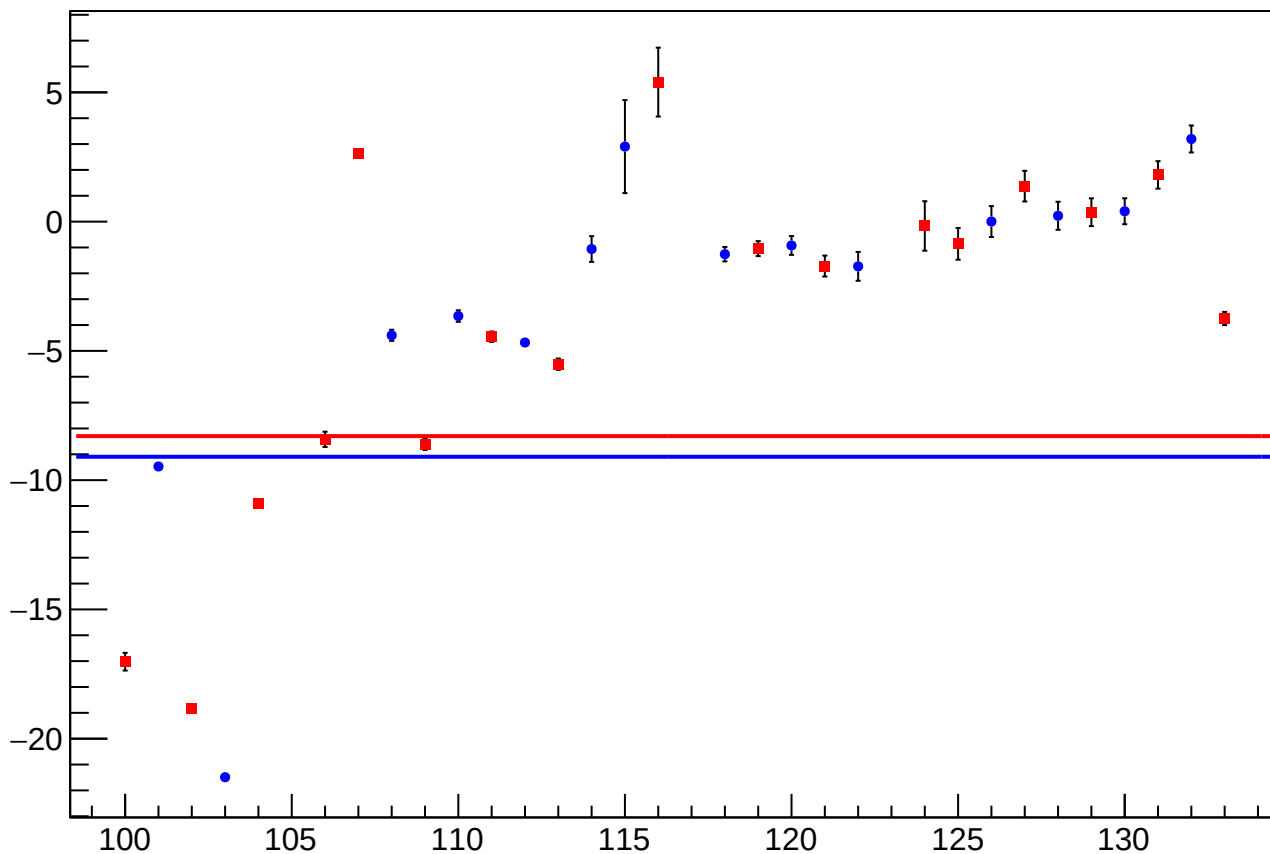
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.906+/-0.038  $\chi^2$ /NDF: 1765.5/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -9.095+/-0.059  $\chi^2/\text{NDF}$ : 12809.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -8.297+/-0.059  $\chi^2/\text{NDF}$ : 13953.8/16

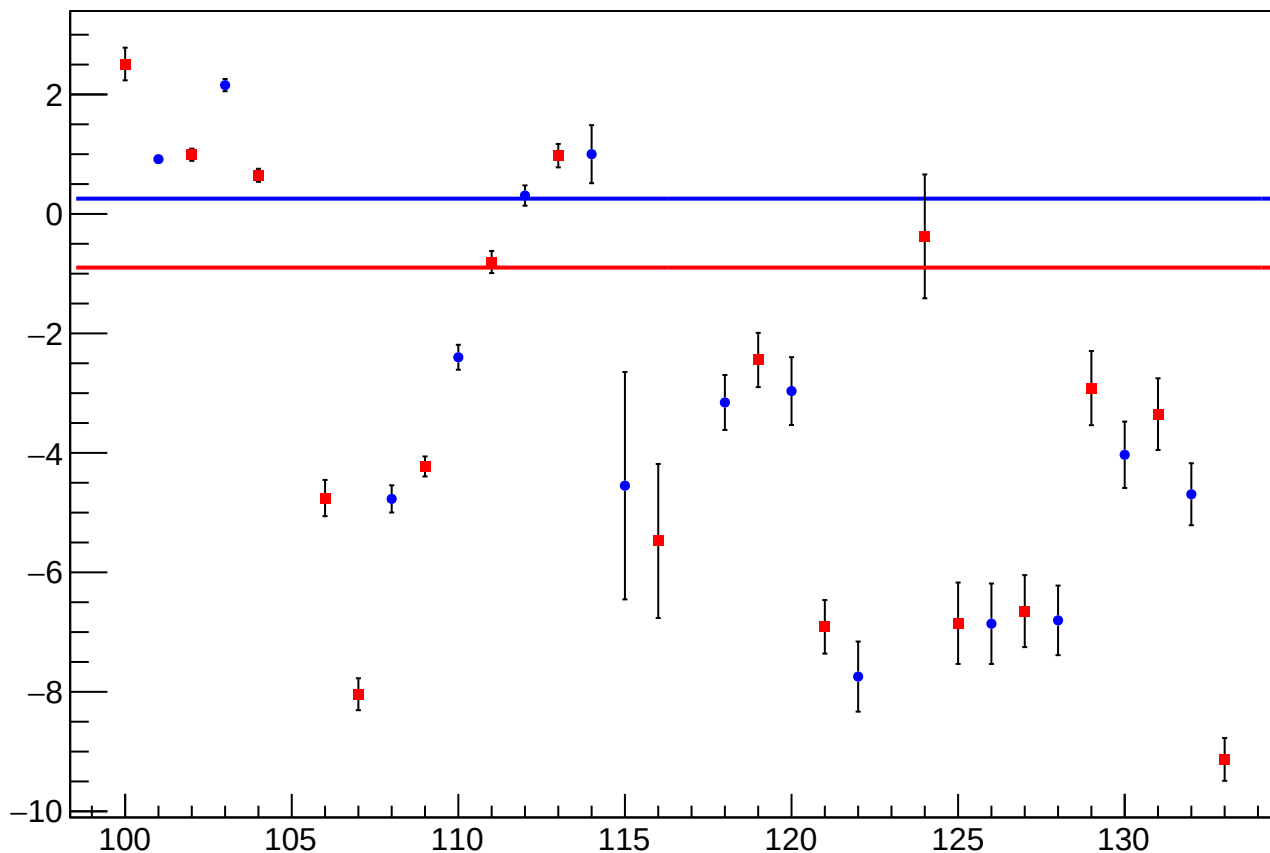
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.694+/-0.041  $\chi^2/\text{NDF}$ : 26855.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.256 $\pm$ 0.054  $\chi^2$ /NDF: 1743.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.898 $\pm$ 0.054  $\chi^2$ /NDF: 2984.4/16

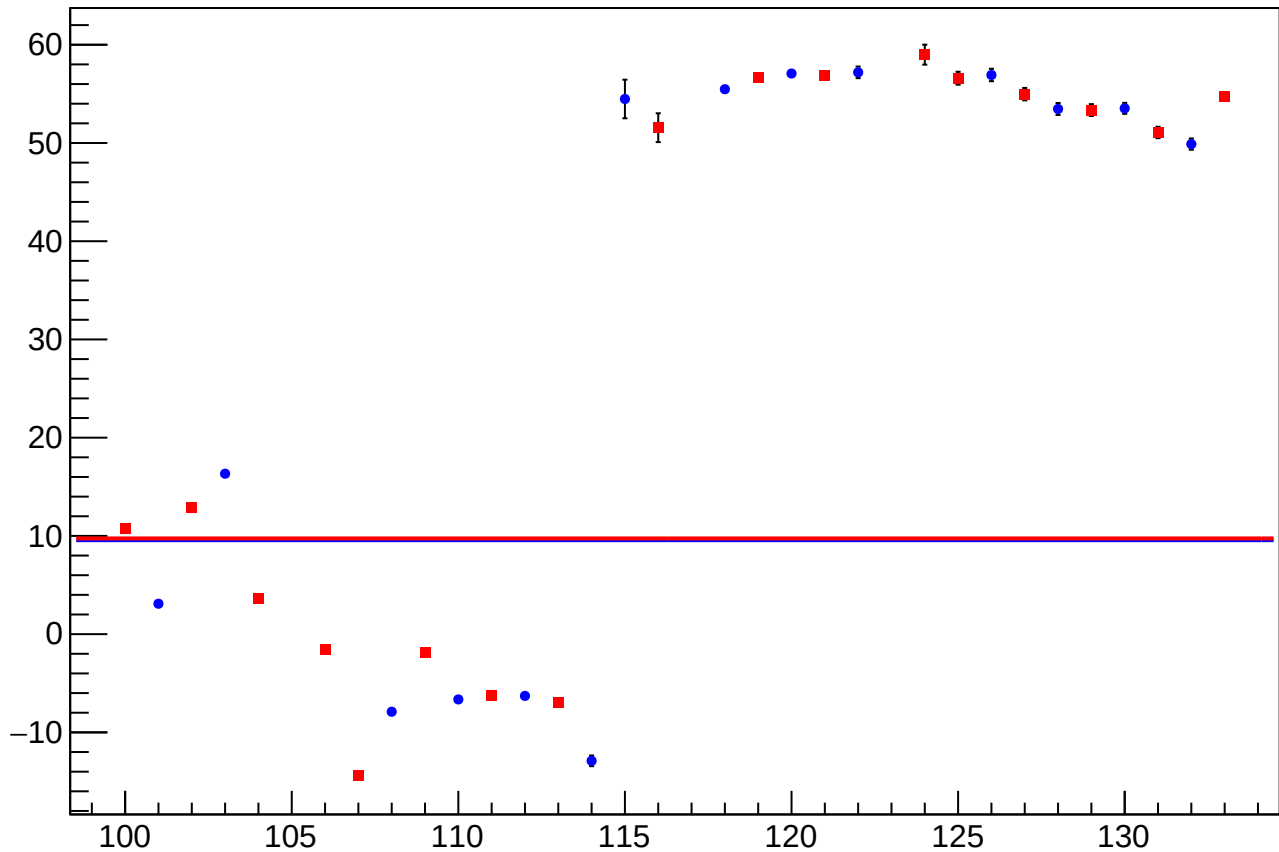
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.320 $\pm$ 0.038  $\chi^2$ /NDF: 4952.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 9.568+/-0.071  $\chi^2/\text{NDF}$ : 76116.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9.744+/-0.069  $\chi^2/\text{NDF}$ : 98536.3/16

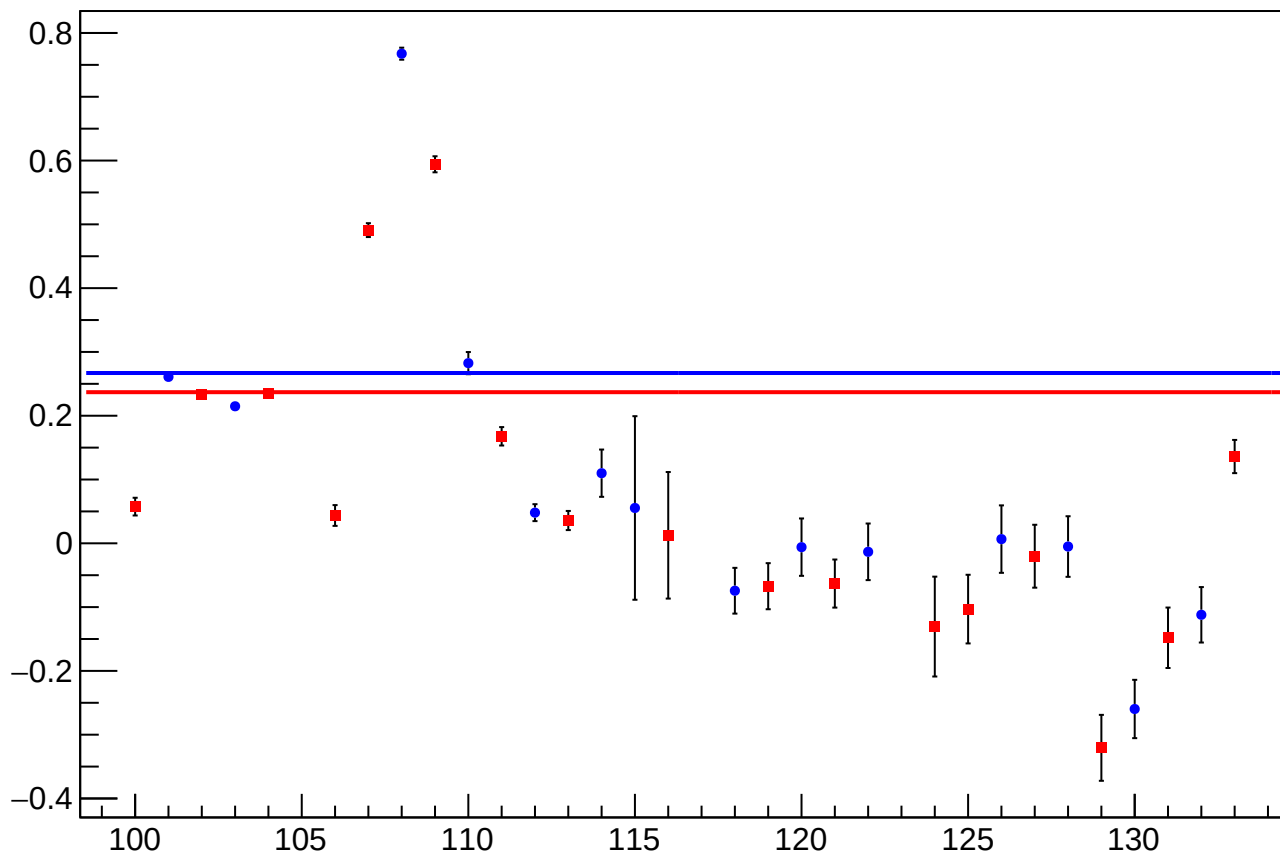
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.658+/-0.050  $\chi^2/\text{NDF}$ : 174655.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.267+/-0.003  $\chi^2/\text{NDF}$ : 3694.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.237+/-0.003  $\chi^2/\text{NDF}$ : 2291.4/16

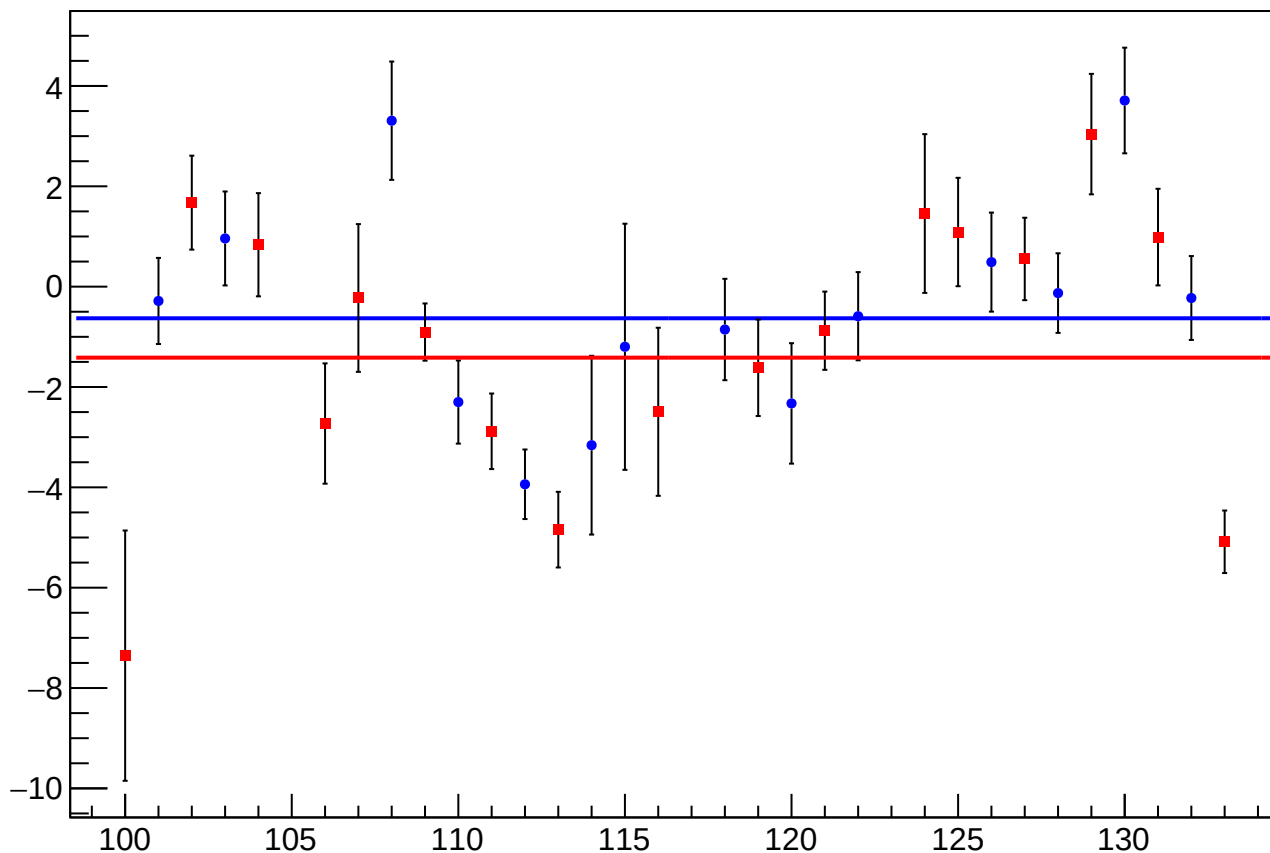
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.252+/-0.002  $\chi^2/\text{NDF}$ : 6041.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-0.630 \pm 0.257$   $\chi^2/\text{NDF}$ : 64.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.415 \pm 0.223$   $\chi^2/\text{NDF}$ : 118.5/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

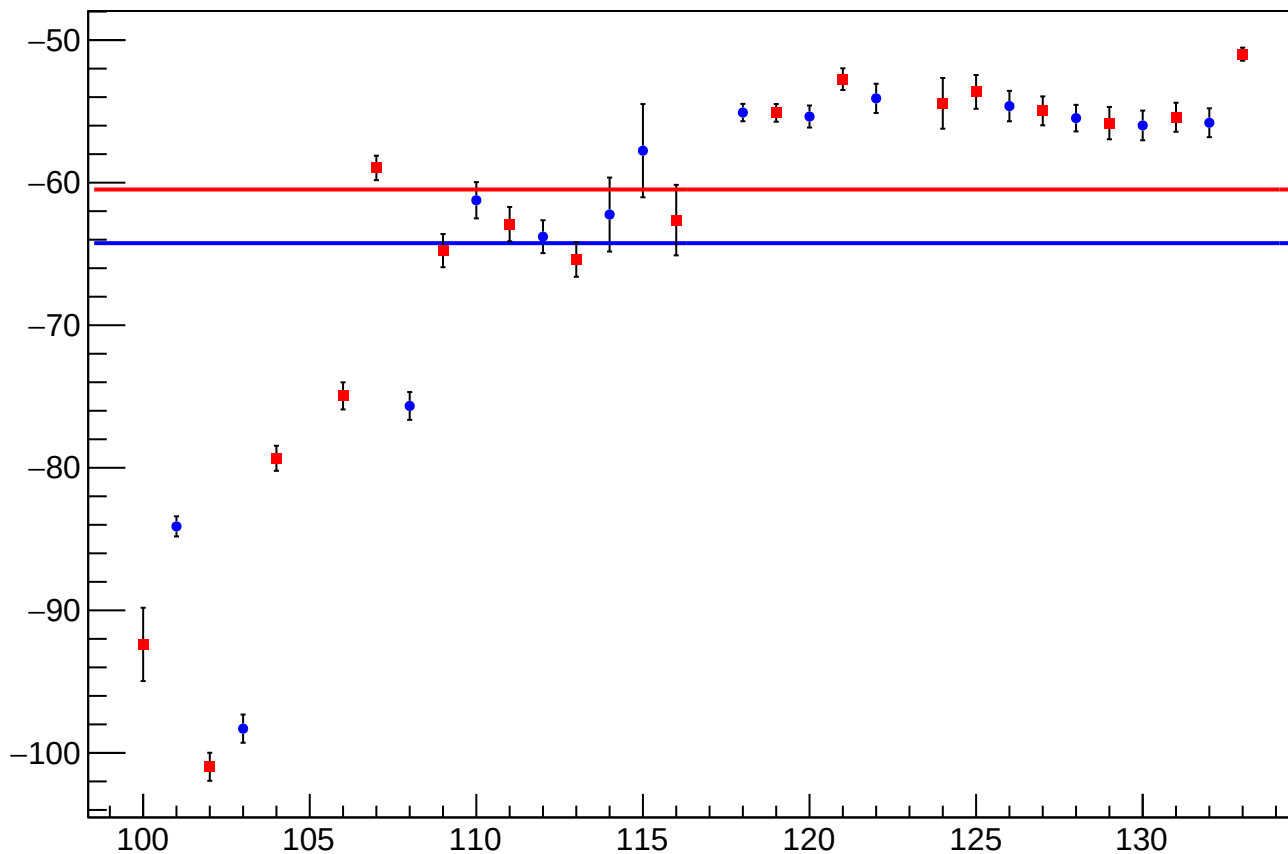
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.078 \pm 0.168$   $\chi^2/\text{NDF}$ : 187.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-64.244 \pm 0.259$   $\chi^2/\text{NDF}$ : 2883.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-60.479 \pm 0.223$   $\chi^2/\text{NDF}$ : 3307.8/16

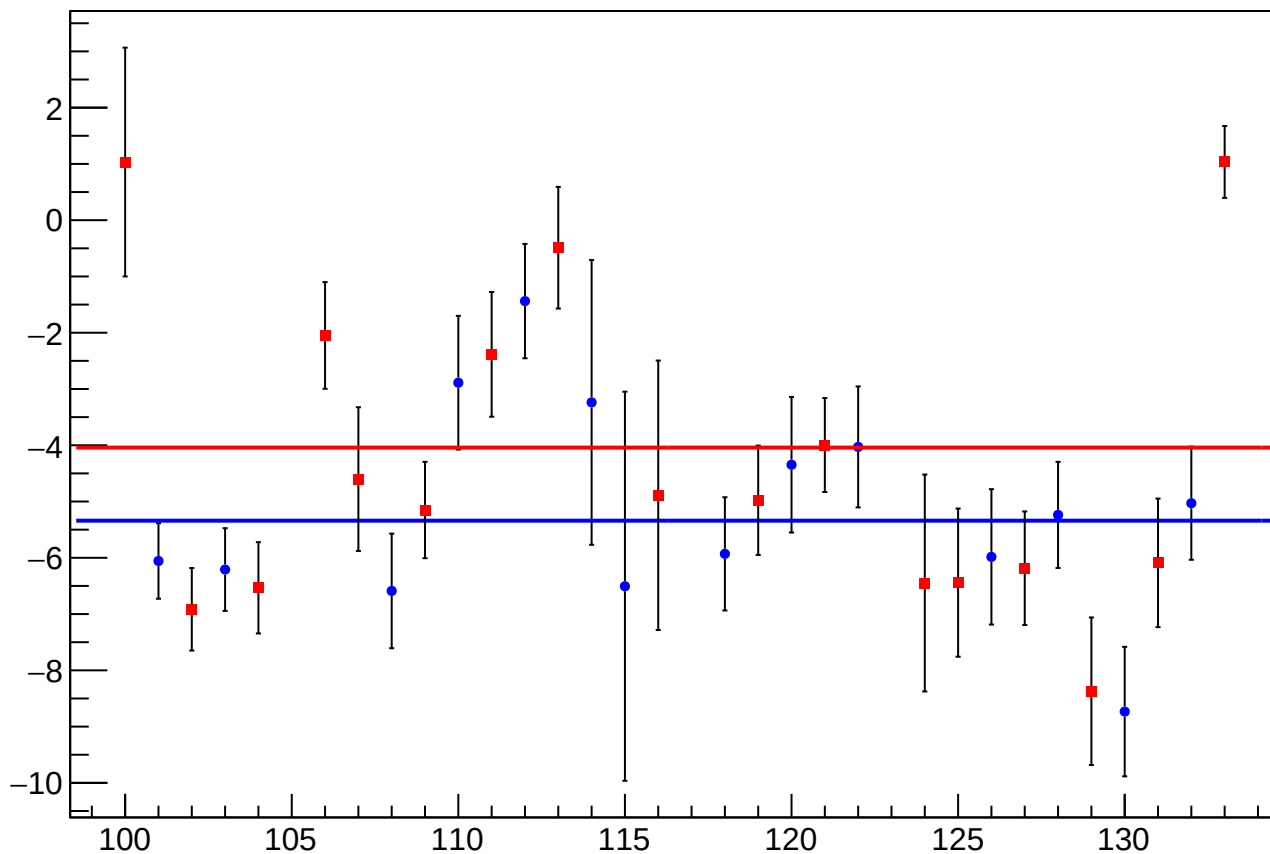
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-62.084 \pm 0.169$   $\chi^2/\text{NDF}$ : 6312.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-5.340 \pm 0.277$   $\chi^2/\text{NDF}$ : 35.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.041 \pm 0.245$   $\chi^2/\text{NDF}$ : 138.1/16

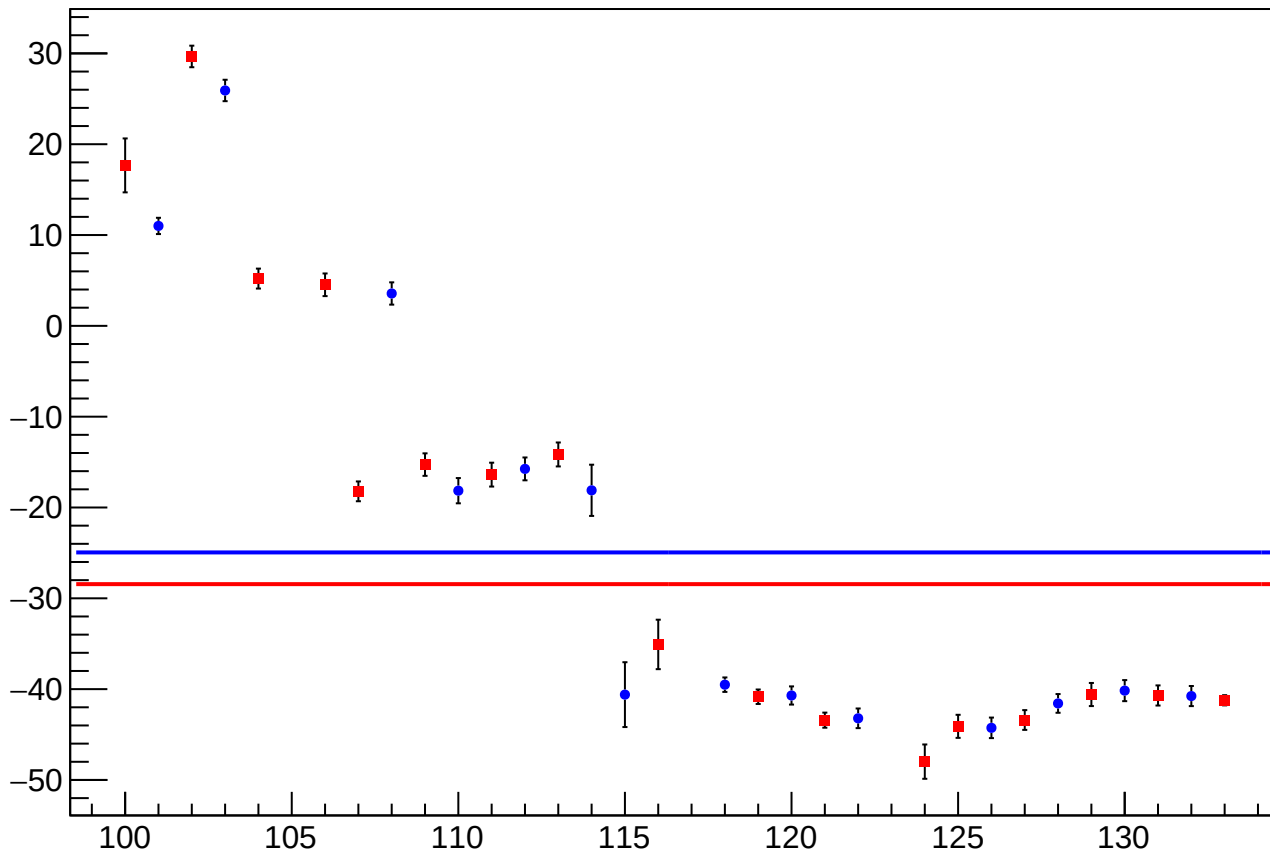
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-4.612 \pm 0.183$   $\chi^2/\text{NDF}$ : 185.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-24.948 \pm 0.306$   $\chi^2/\text{NDF}$ : 5912.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-28.439 \pm 0.263$   $\chi^2/\text{NDF}$ : 6433.4/16

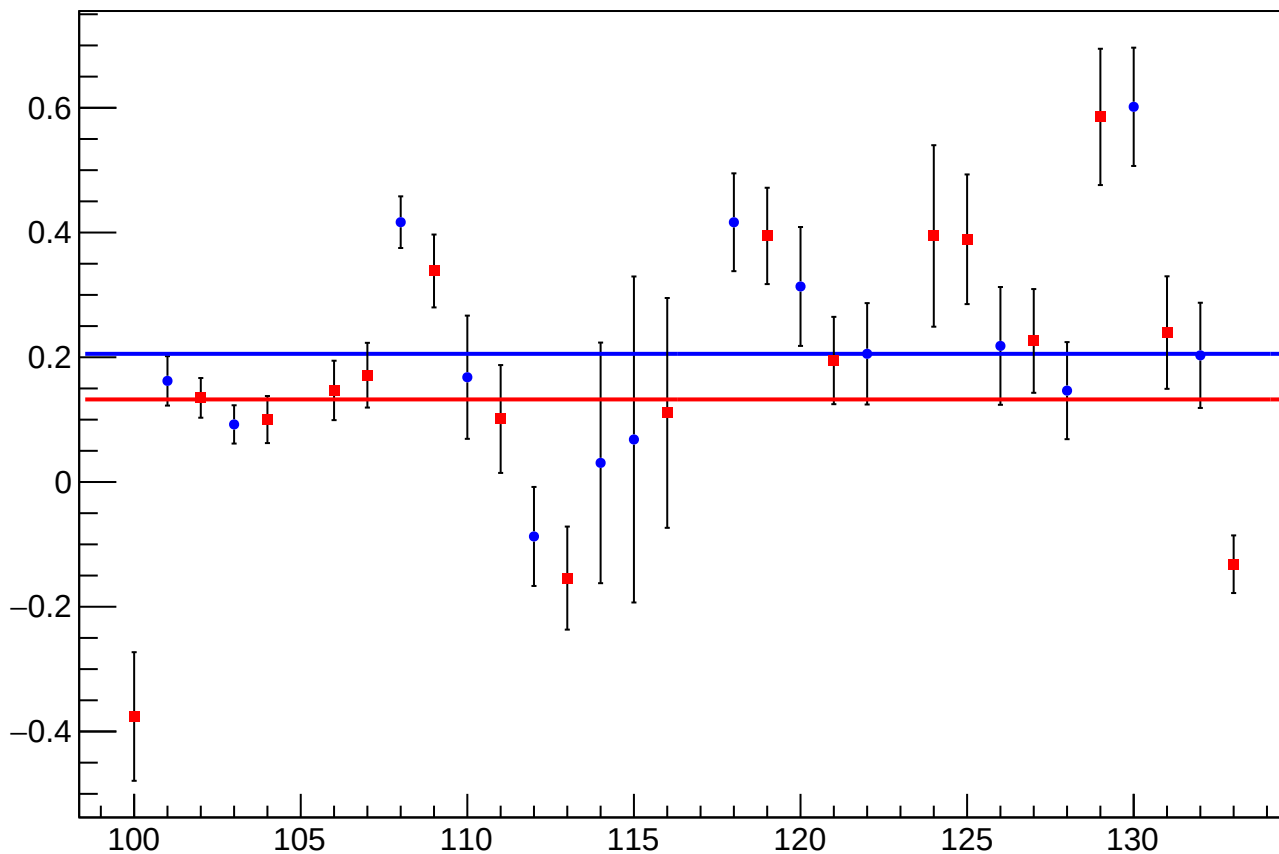
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-26.954 \pm 0.199$   $\chi^2/\text{NDF}$ : 12421.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.206 $\pm$ 0.017  $\chi^2$ /NDF: 82.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.132 $\pm$ 0.015  $\chi^2$ /NDF: 124.5/16

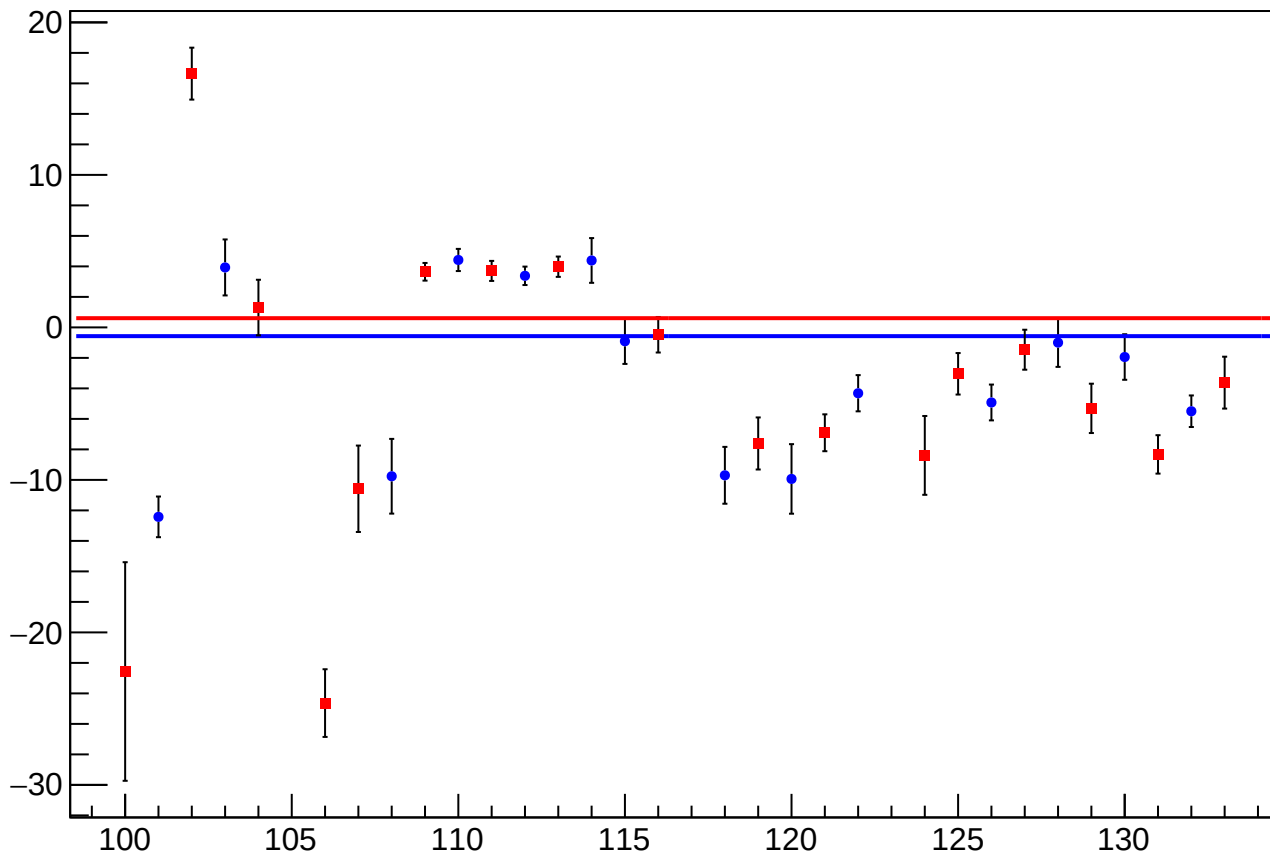
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.164 $\pm$ 0.011  $\chi^2$ /NDF: 217.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -0.574 $\pm$ 0.312  $\chi^2$ /NDF: 288.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.604 $\pm$ 0.278  $\chi^2$ /NDF: 474.0/16

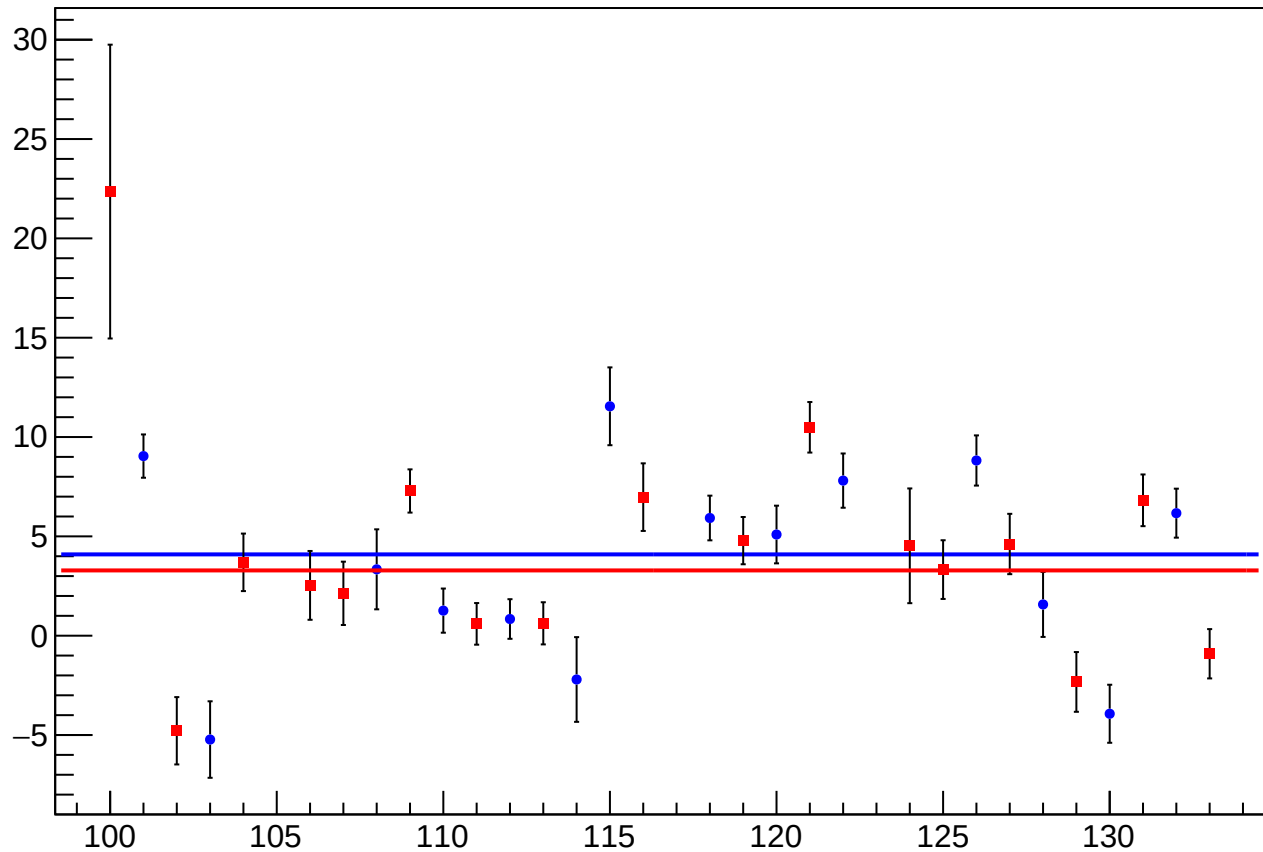
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.083 $\pm$ 0.208  $\chi^2$ /NDF: 770.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 4.093+/-0.363  $\chi^2/\text{NDF}$ : 144.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.286+/-0.341  $\chi^2/\text{NDF}$ : 128.6/16

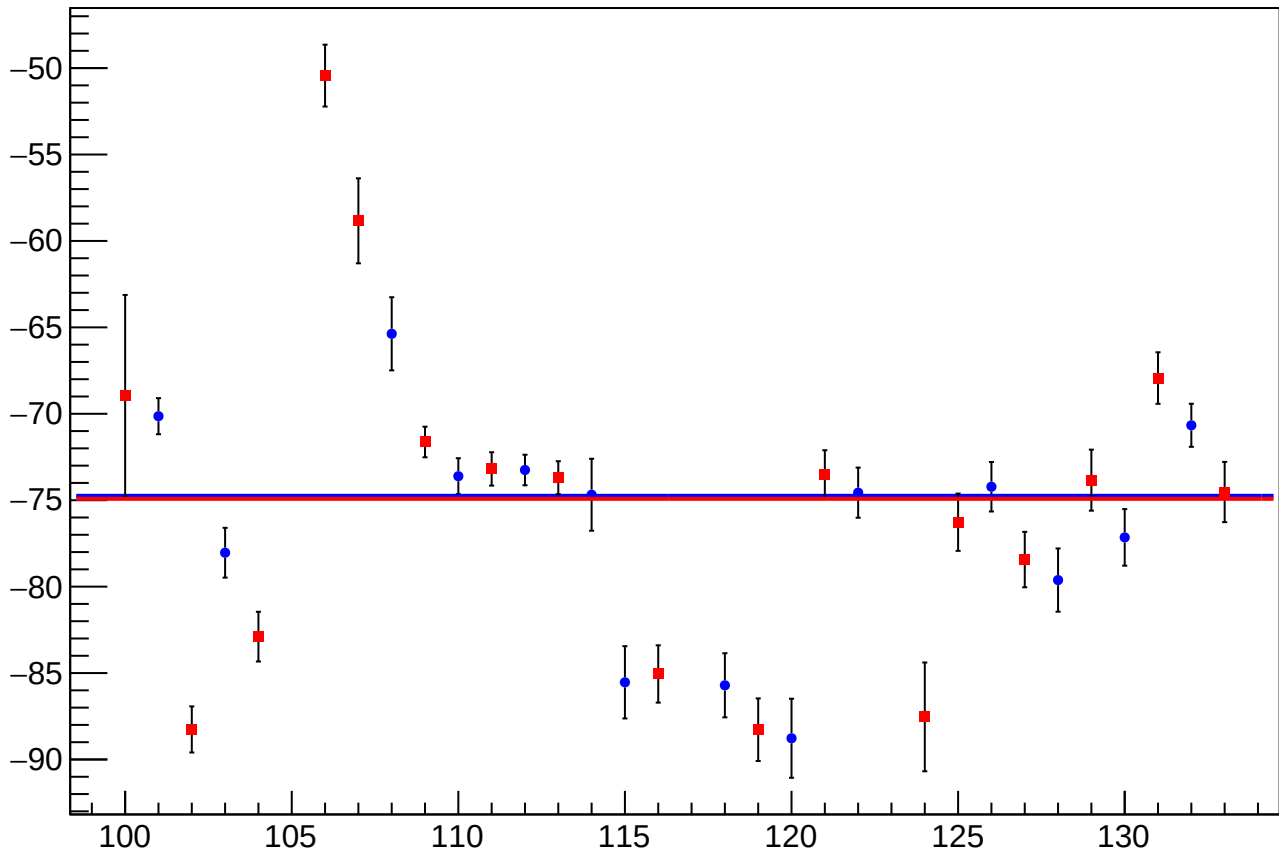
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.664+/-0.249  $\chi^2/\text{NDF}$ : 275.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-74.746 \pm 0.377$   $\chi^2/\text{NDF}$ : 167.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-74.920 \pm 0.350$   $\chi^2/\text{NDF}$ : 517.4/16

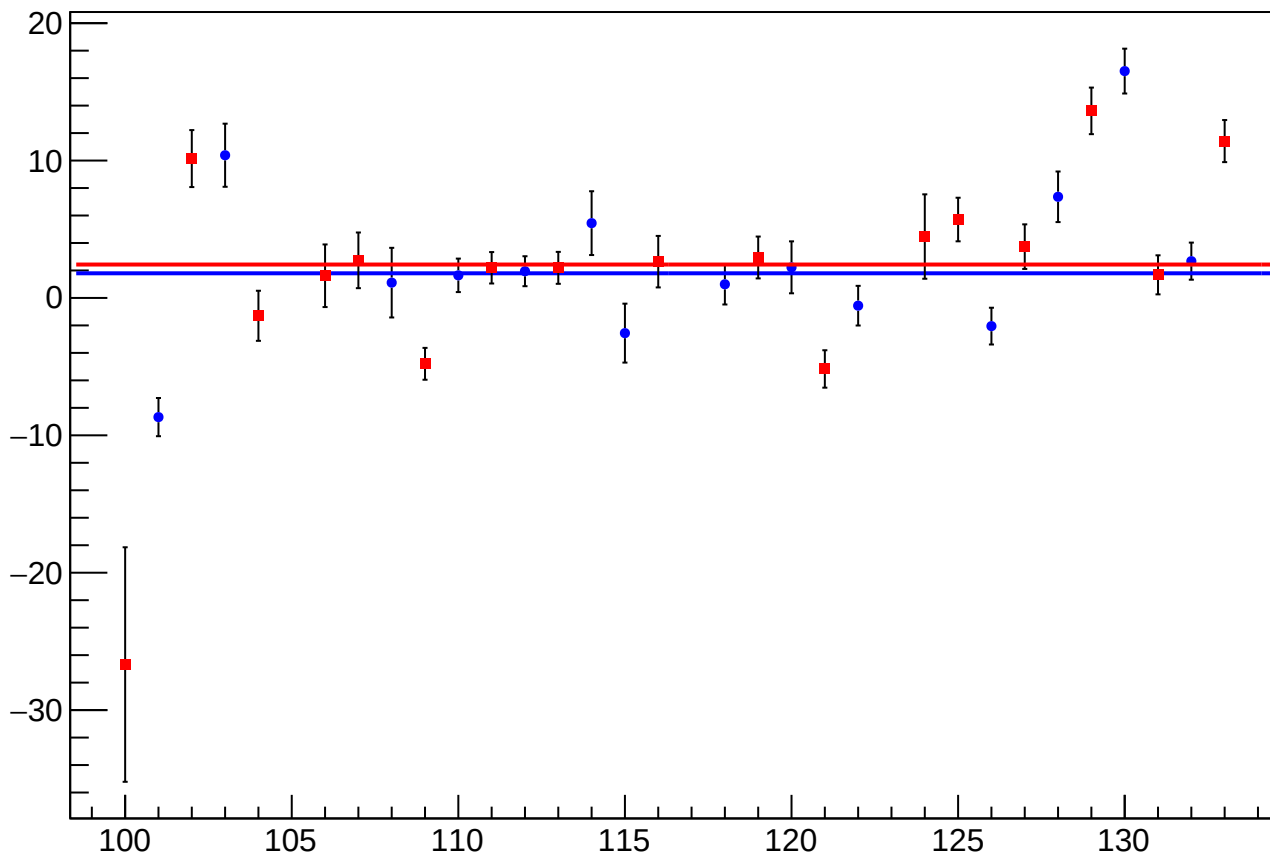
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-74.839 \pm 0.256$   $\chi^2/\text{NDF}$ : 685.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 1.794+/-0.416  $\chi^2/\text{NDF}$ : 179.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.432+/-0.388  $\chi^2/\text{NDF}$ : 183.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

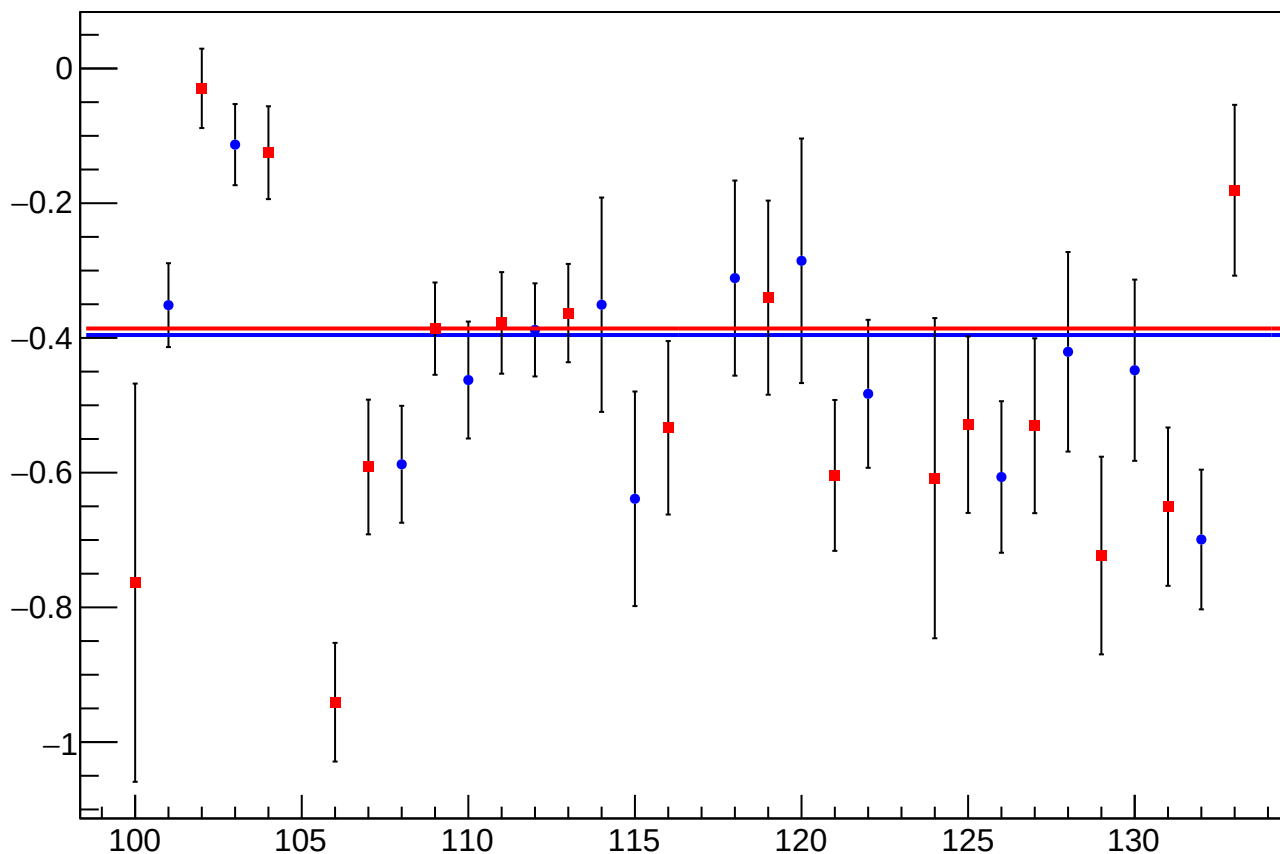
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.135+/-0.284  $\chi^2/\text{NDF}$ : 364.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.396 \pm 0.026$   $\chi^2/\text{NDF}$ : 44.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.386 \pm 0.023$   $\chi^2/\text{NDF}$ : 118.0/16

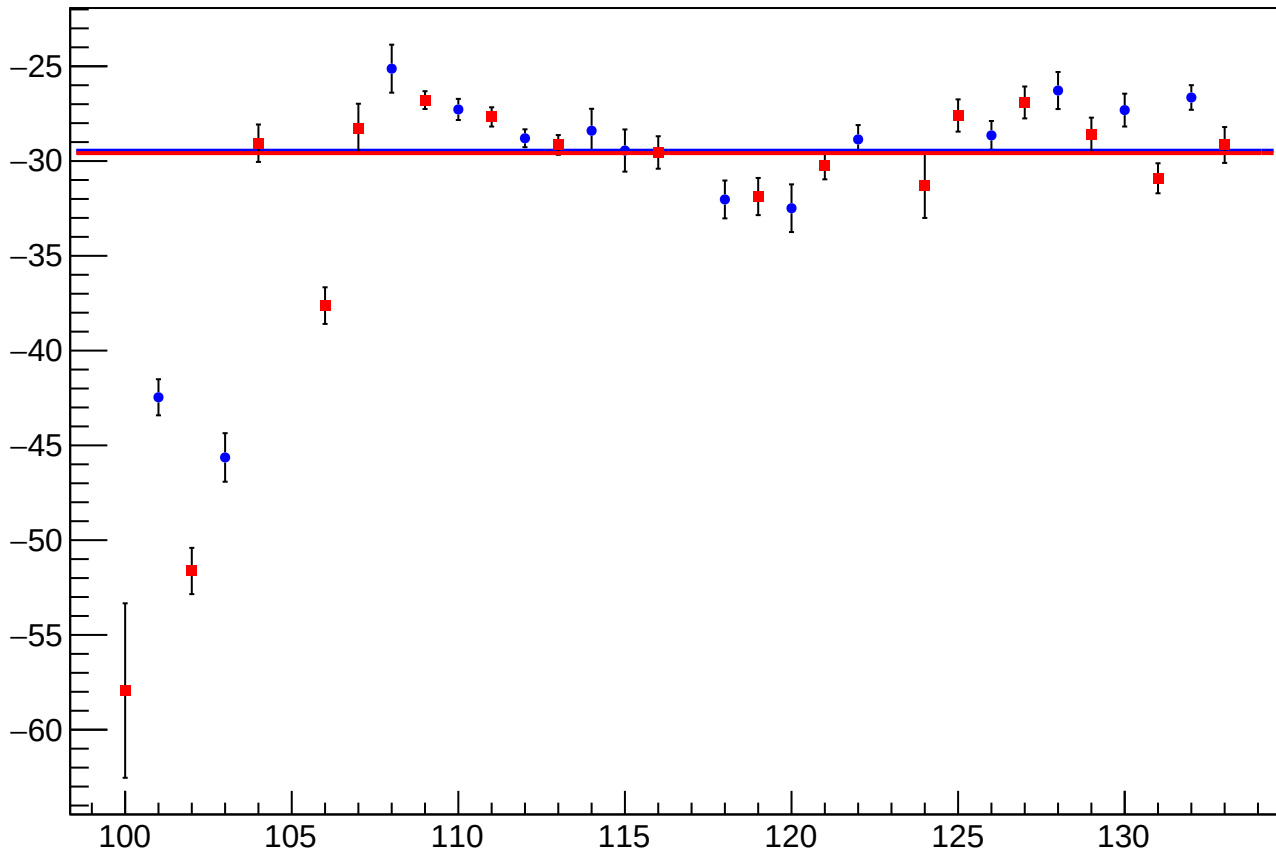
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.390 \pm 0.017$   $\chi^2/\text{NDF}$ : 162.1/30

- 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:  $-29.455 \pm 0.216$   $\chi^2/\text{NDF}: 425.5/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-29.581 \pm 0.193$   $\chi^2/\text{NDF}: 512.3/16$

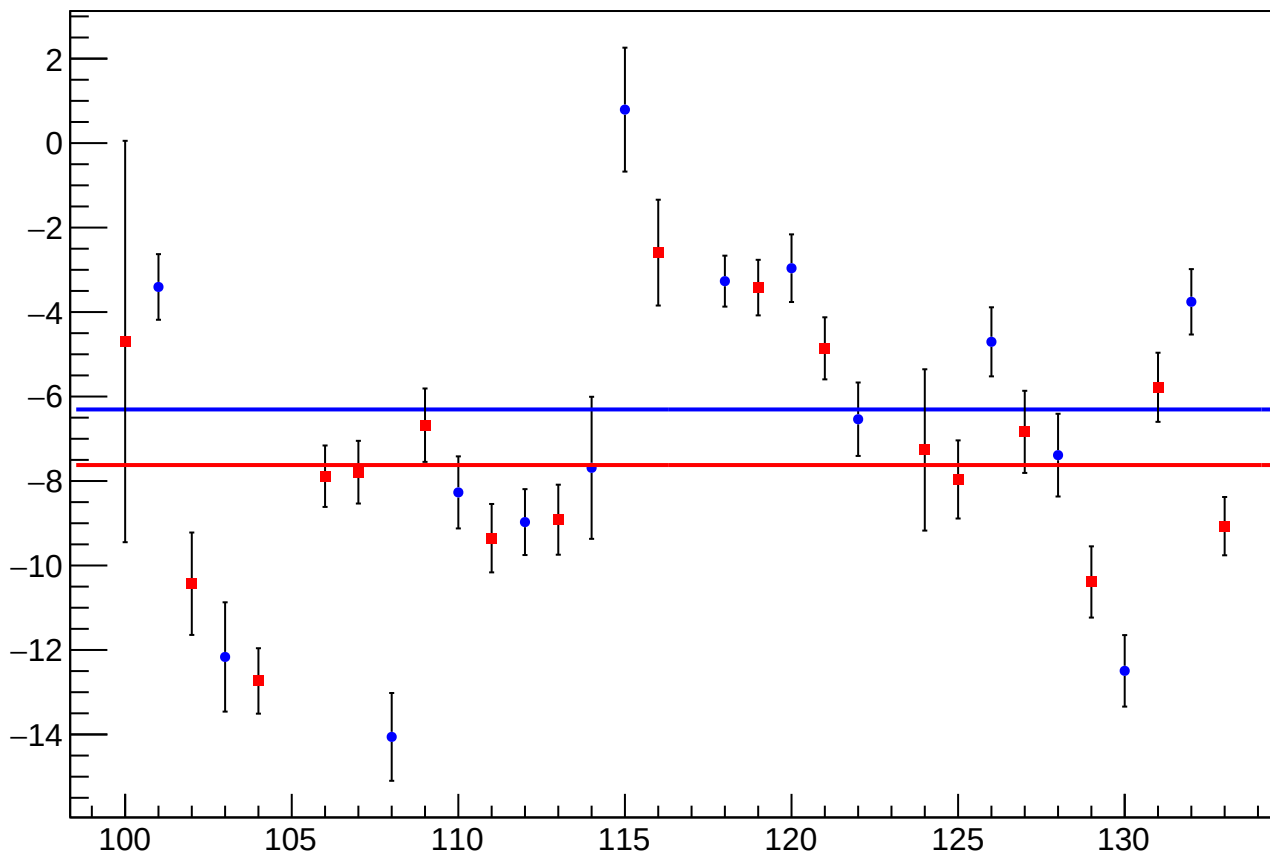
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-29.525 \pm 0.144$   $\chi^2/\text{NDF}: 937.9/30$

- 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:  $-6.306 \pm 0.234$   $\chi^2/\text{NDF}$ : 243.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-7.622 \pm 0.210$   $\chi^2/\text{NDF}$ : 149.8/16

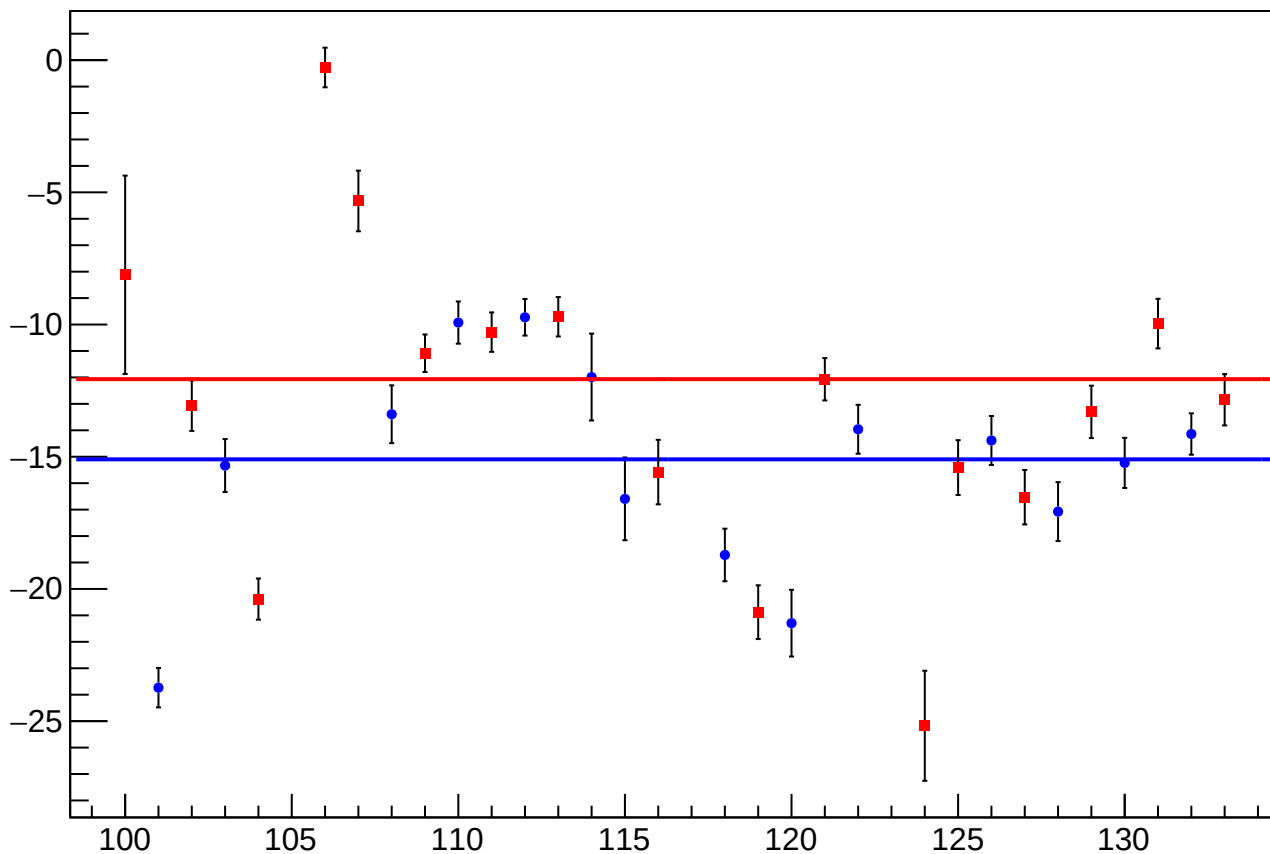
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-7.036 \pm 0.156$   $\chi^2/\text{NDF}$ : 410.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-15.099 \pm 0.253$   $\chi^2/\text{NDF}$ : 287.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-12.065 \pm 0.227$   $\chi^2/\text{NDF}$ : 575.2/16

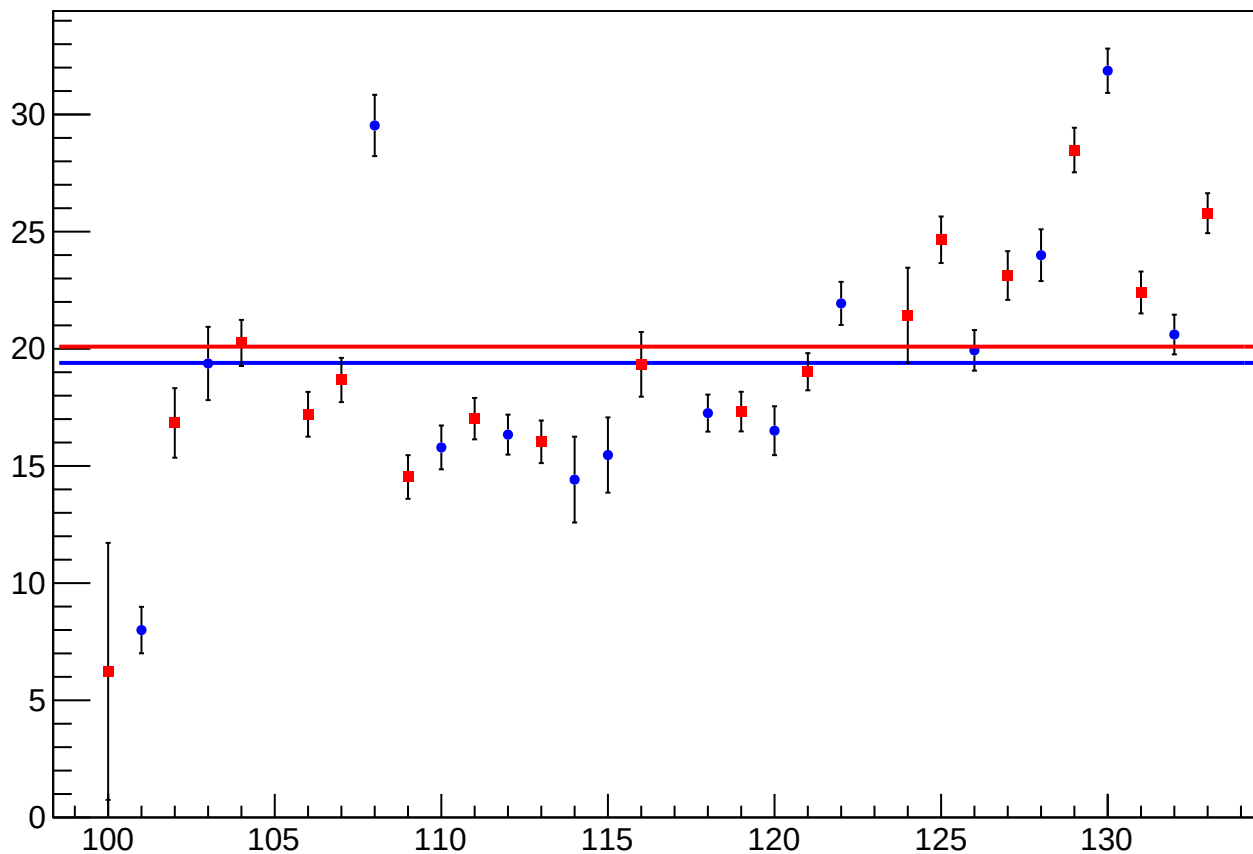
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-13.415 \pm 0.169$   $\chi^2/\text{NDF}$ : 942.8/30

- 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: 19.397 $\pm$ 0.271  $\chi^2$ /NDF: 449.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 20.092 $\pm$ 0.244  $\chi^2$ /NDF: 262.7/16

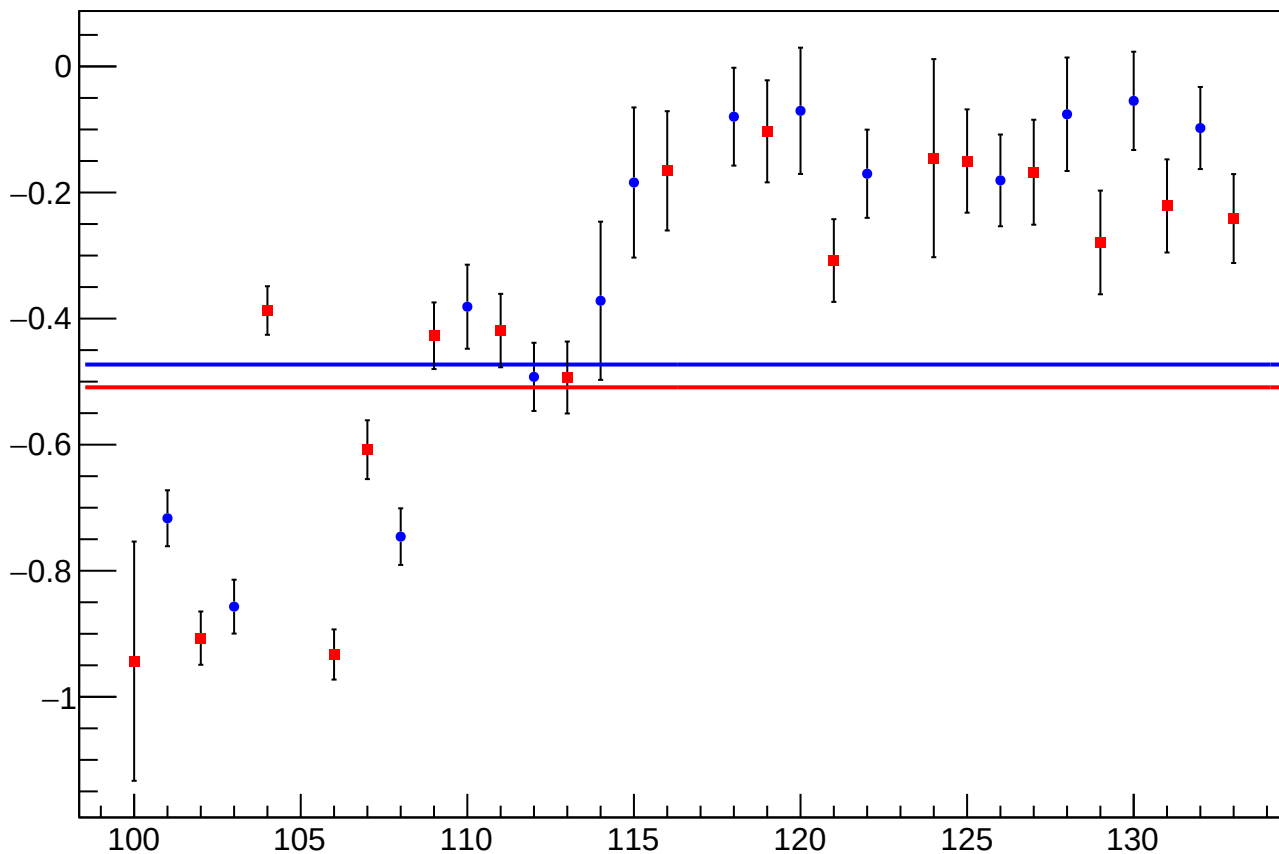
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 19.782 $\pm$ 0.181  $\chi^2$ /NDF: 716.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.473+/-0.017  $\chi^2/\text{NDF}$ : 314.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.509+/-0.015  $\chi^2/\text{NDF}$ : 353.1/16

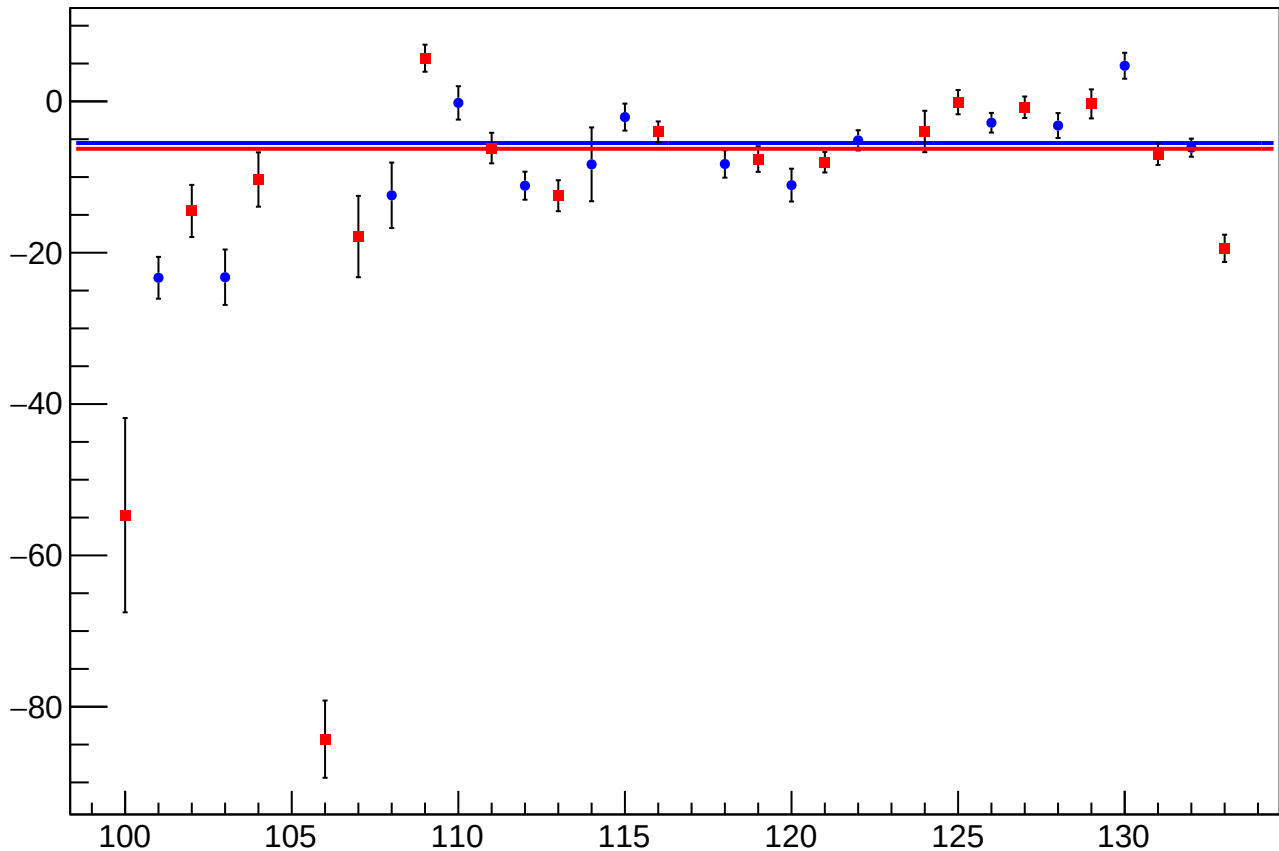
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.494+/-0.011  $\chi^2/\text{NDF}$ : 670.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -5.500 $\pm$ 0.488  $\chi^2$ /NDF: 137.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -6.266 $\pm$ 0.468  $\chi^2$ /NDF: 412.2/16

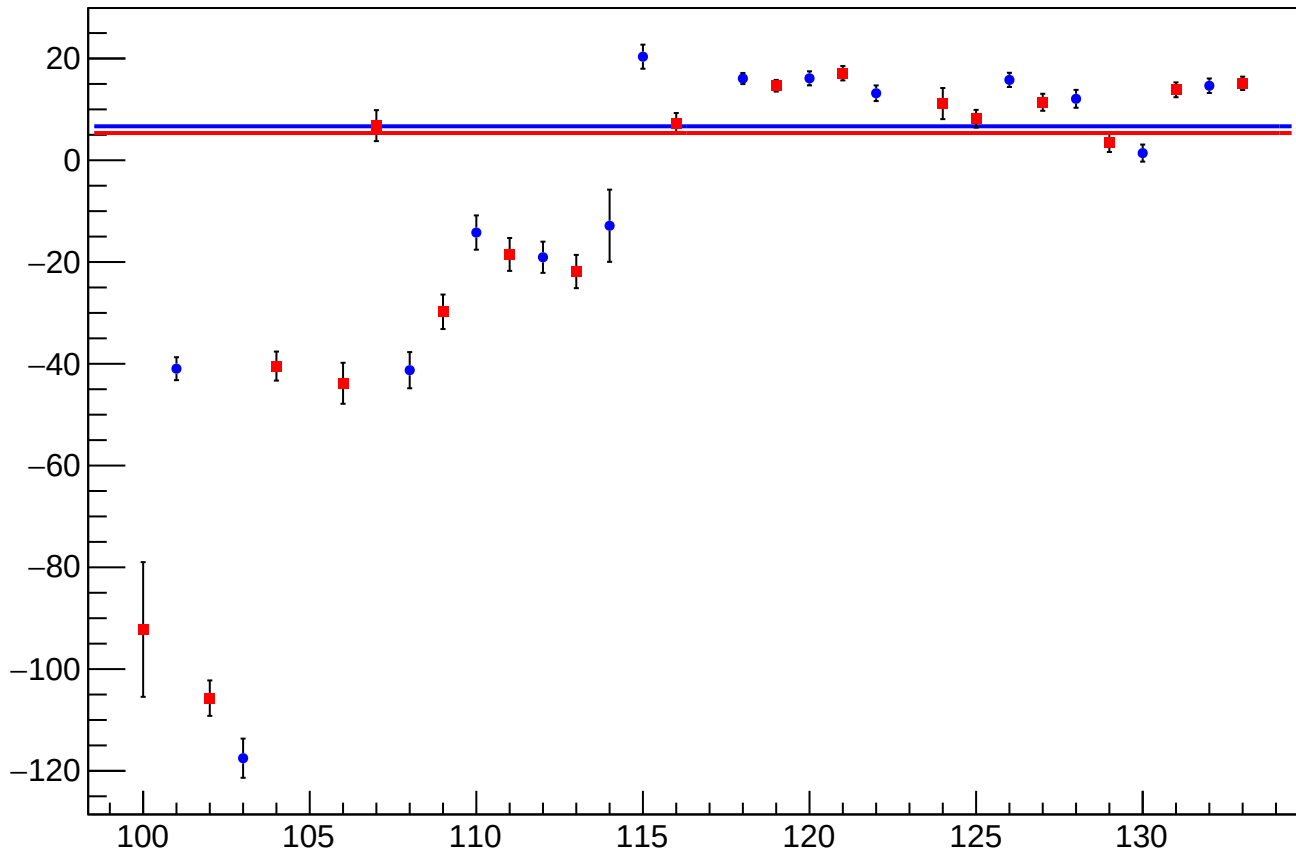
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -5.899 $\pm$ 0.338  $\chi^2$ /NDF: 551.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 6.675 $\pm$ 0.488  $\chi^2$ /NDF: 2048.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.354 $\pm$ 0.481  $\chi^2$ /NDF: 1955.1/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

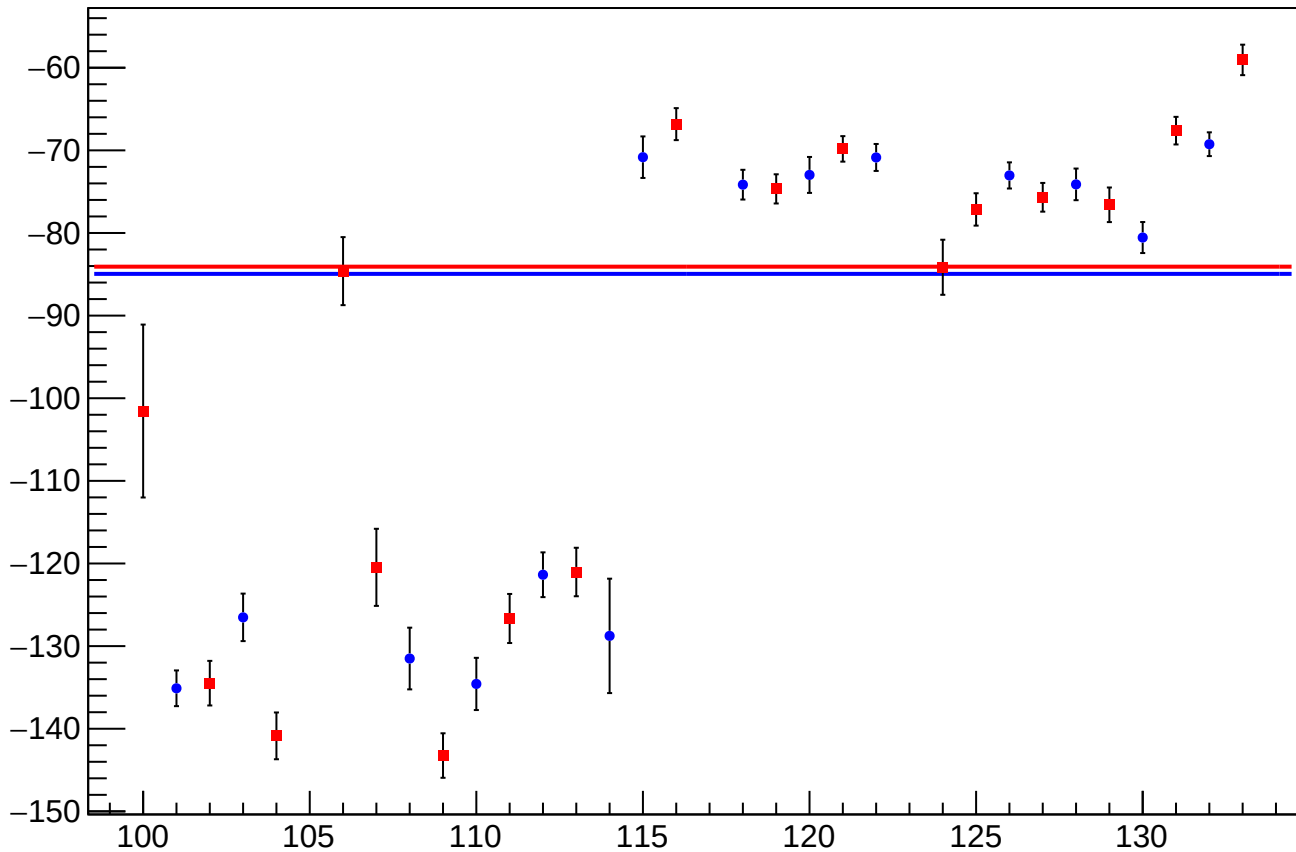
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.005 $\pm$ 0.342  $\chi^2$ /NDF: 4007.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -84.949 $\pm$ 0.563  $\chi^2$ /NDF: 1756.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -84.076 $\pm$ 0.549  $\chi^2$ /NDF: 2184.4/16

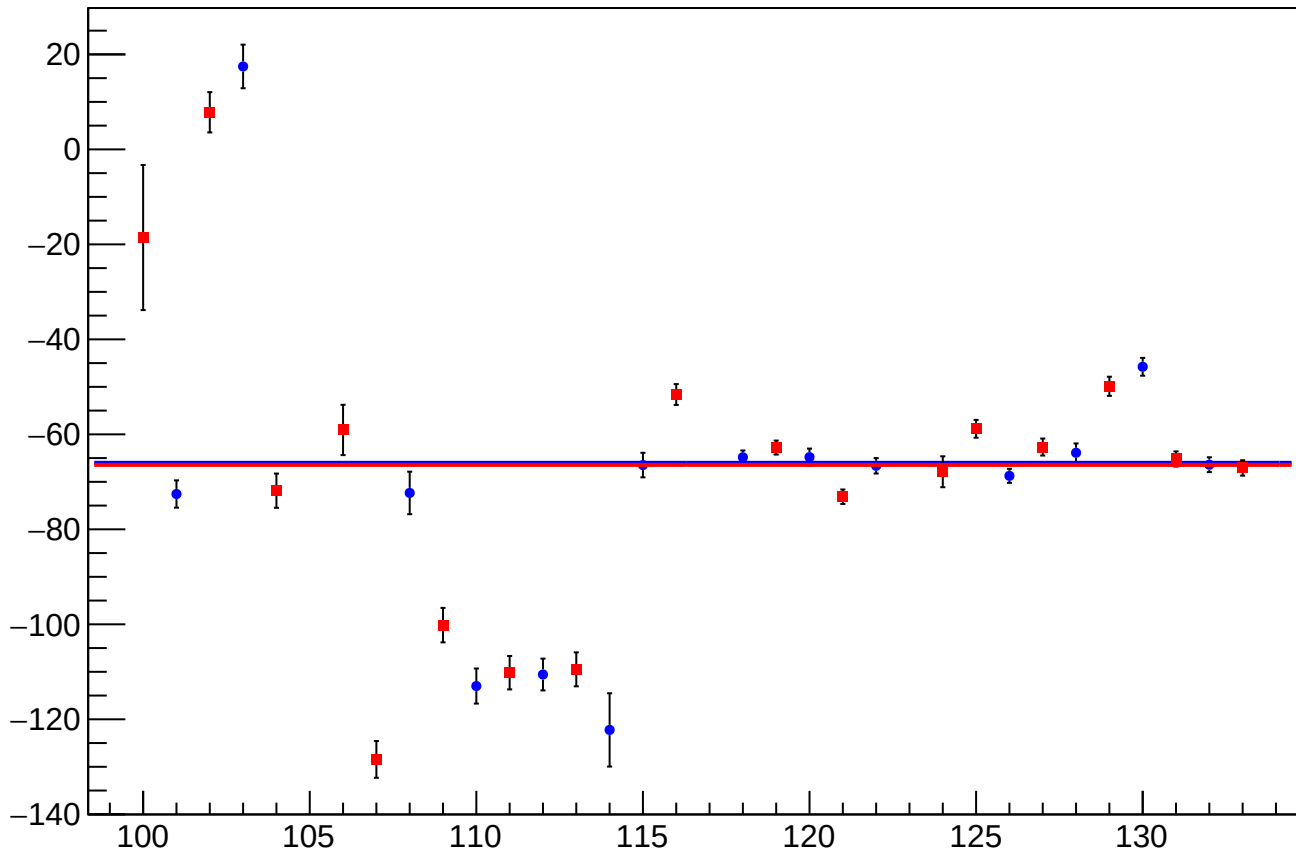
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -84.502 $\pm$ 0.393  $\chi^2$ /NDF: 3941.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -65.994+/-0.565  $\chi^2/\text{NDF}$ : 852.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -66.436+/-0.552  $\chi^2/\text{NDF}$ : 1122.9/16

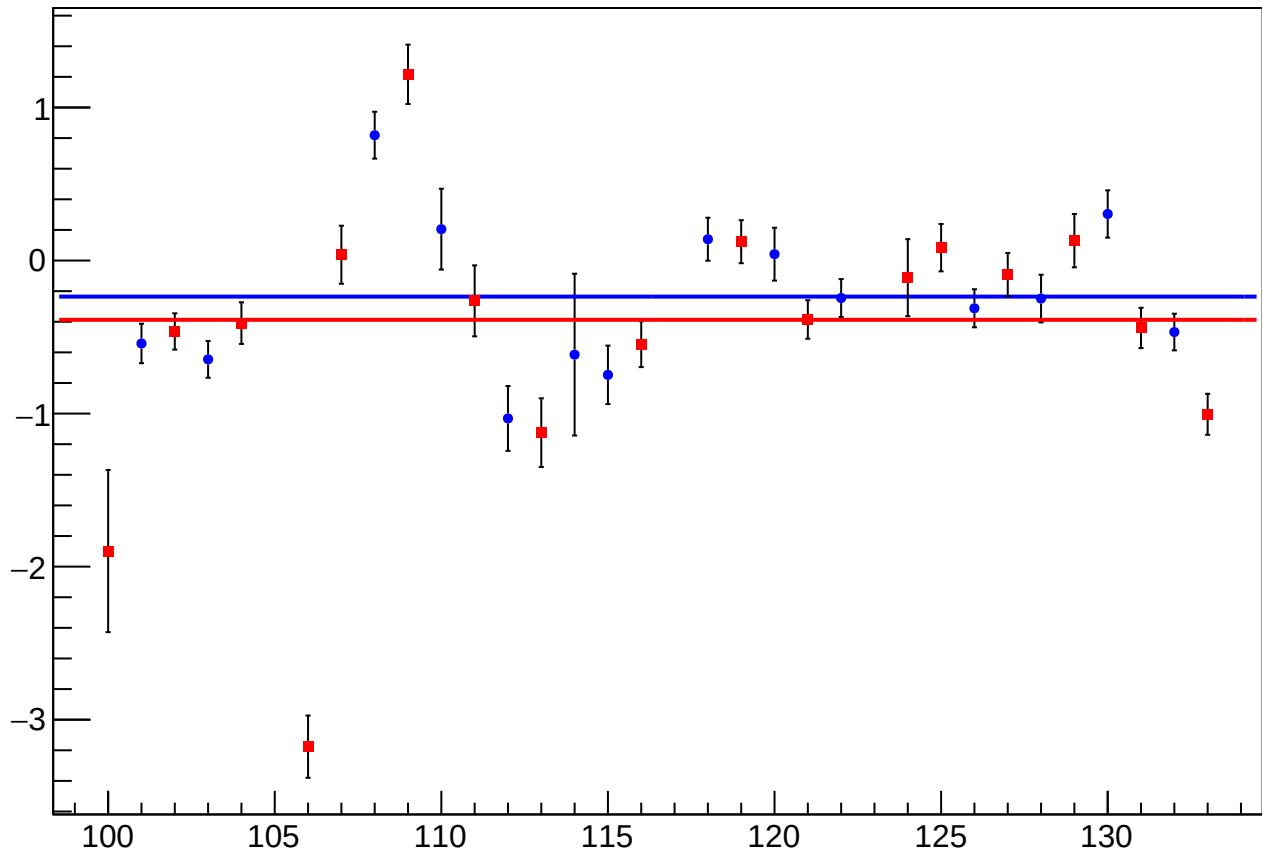
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -66.220+/-0.395  $\chi^2/\text{NDF}$ : 1975.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.236+/-0.041  $\chi^2/\text{NDF}$ : 115.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.387+/-0.039  $\chi^2/\text{NDF}$ : 340.4/16

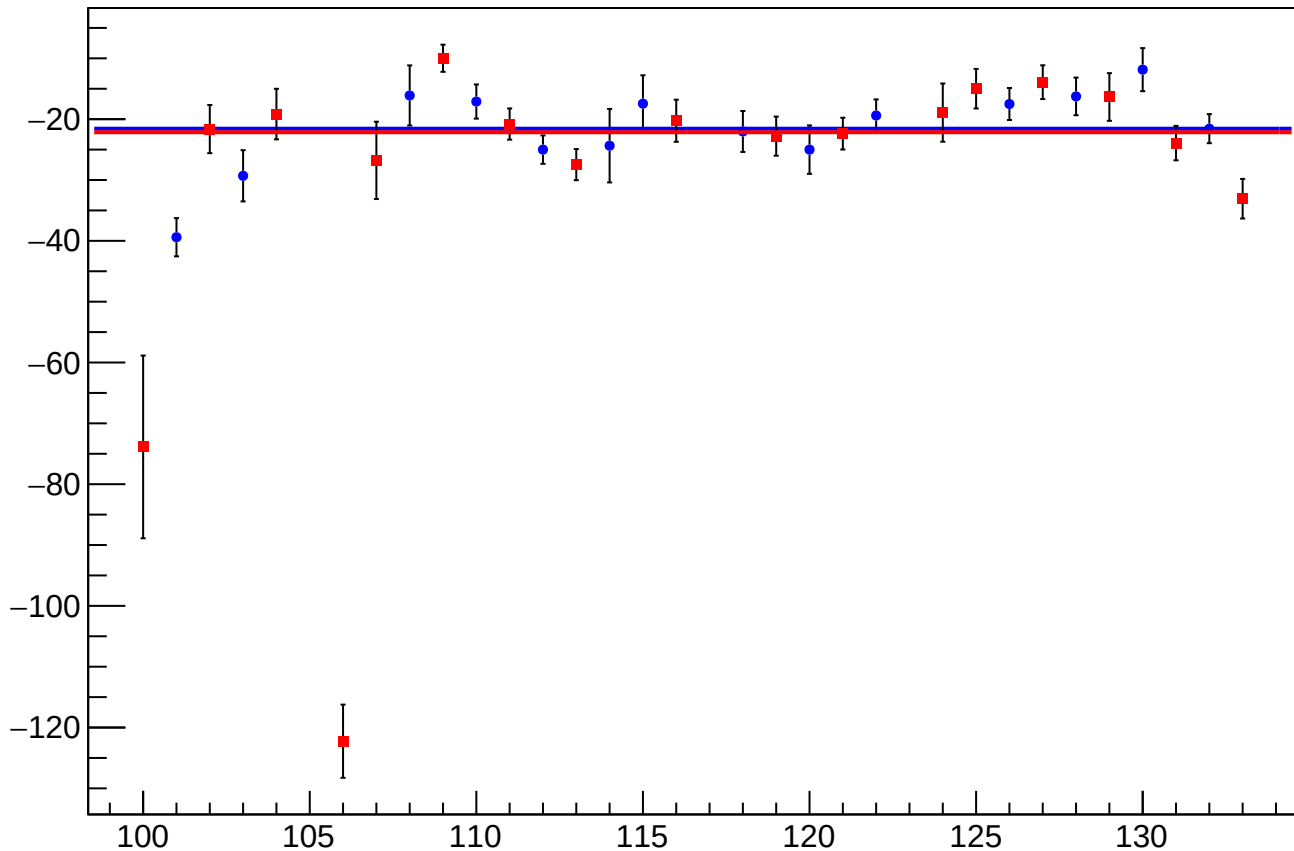
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.315+/-0.028  $\chi^2/\text{NDF}$ : 463.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-21.569 \pm 0.851$   $\chi^2/\text{NDF}$ : 56.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-22.150 \pm 0.800$   $\chi^2/\text{NDF}$ : 352.5/16

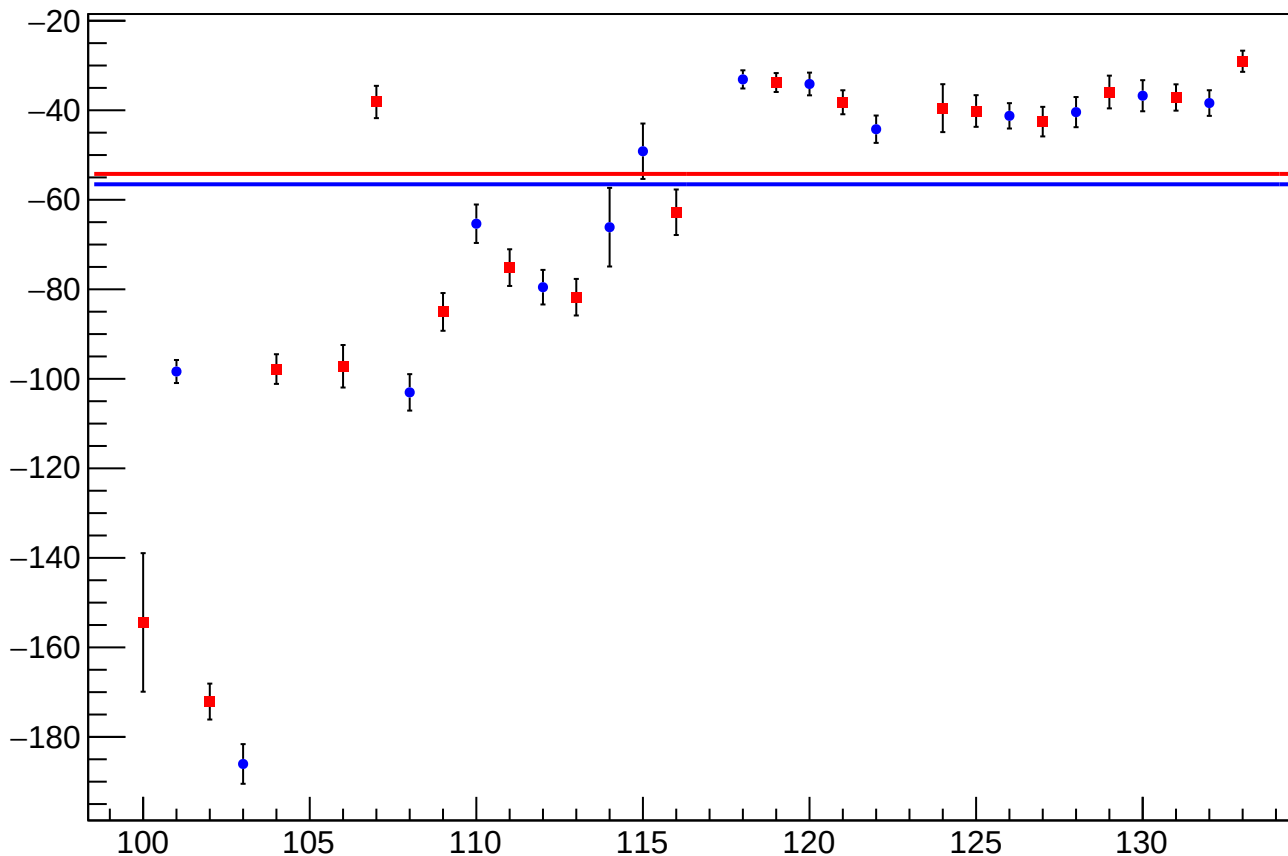
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-21.878 \pm 0.583$   $\chi^2/\text{NDF}$ : 409.5/30

- 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: -56.536 $\pm$ 0.862  $\chi^2$ /NDF: 1642.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -54.217 $\pm$ 0.836  $\chi^2$ /NDF: 1644.6/16

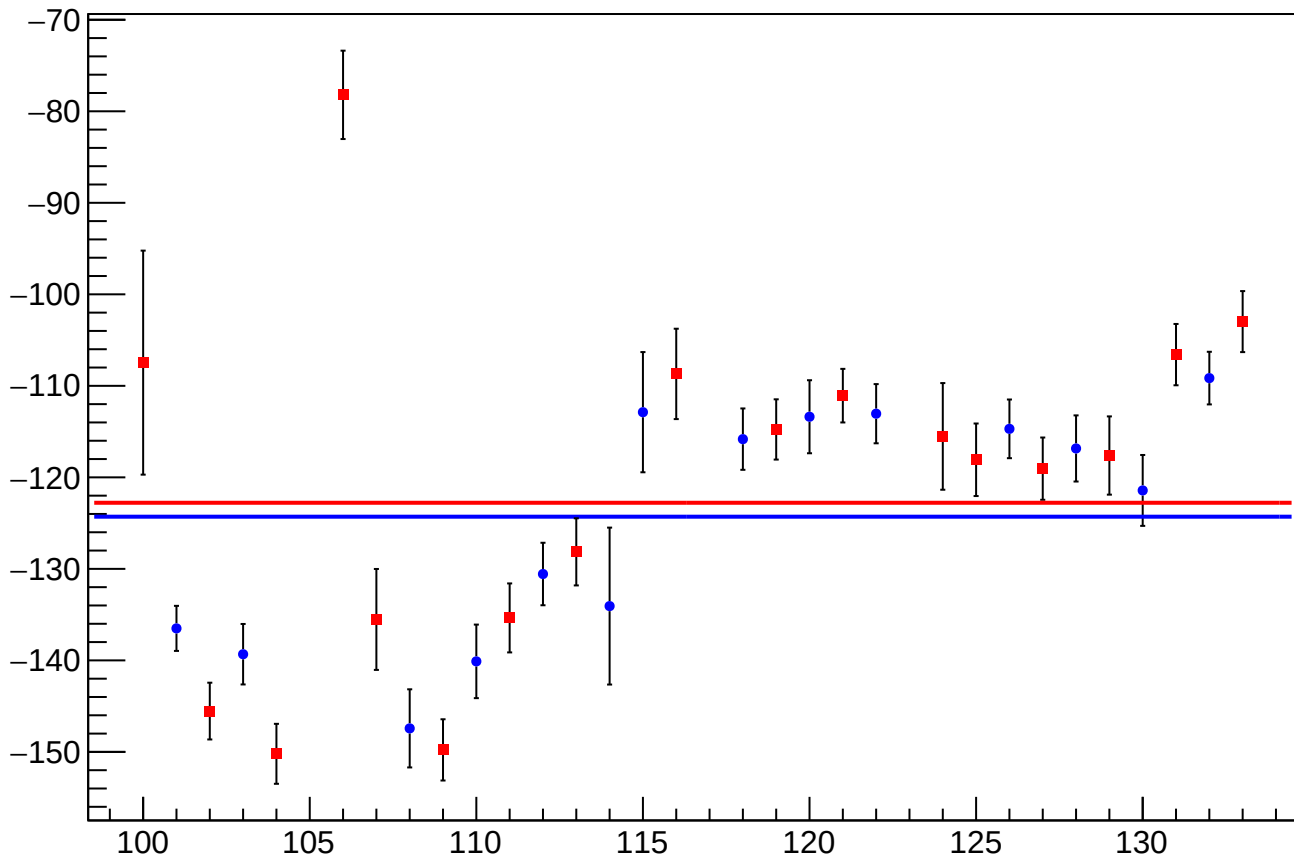
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -55.341 $\pm$ 0.600  $\chi^2$ /NDF: 3290.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -124.298+/-0.951  $\chi^2$ /NDF: 165.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -122.777+/-0.922  $\chi^2$ /NDF: 388.8/16

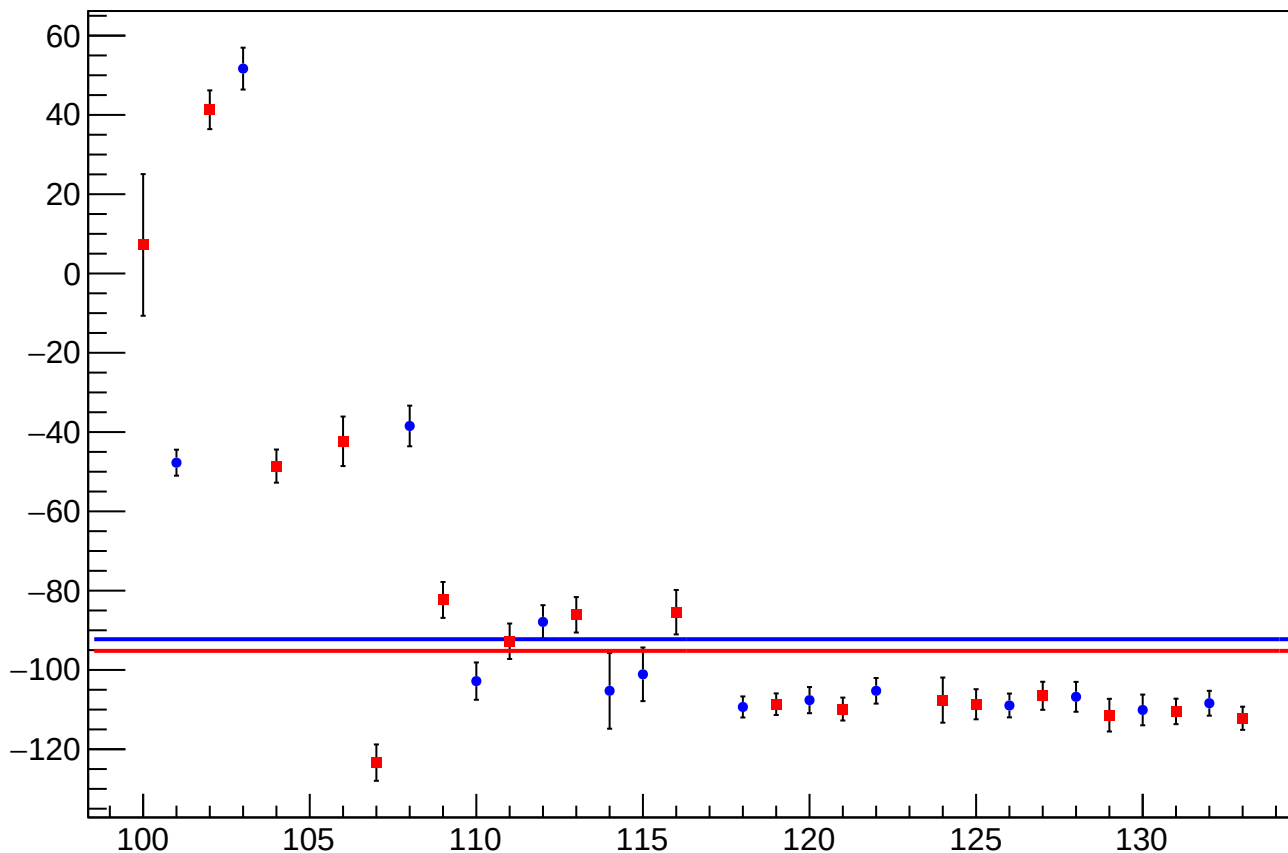
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -123.514+/-0.662  $\chi^2$ /NDF: 555.4/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -92.250+/-1.010  $\chi^2/\text{NDF}$ : 1220.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -95.186+/-0.969  $\chi^2/\text{NDF}$ : 1211.8/16

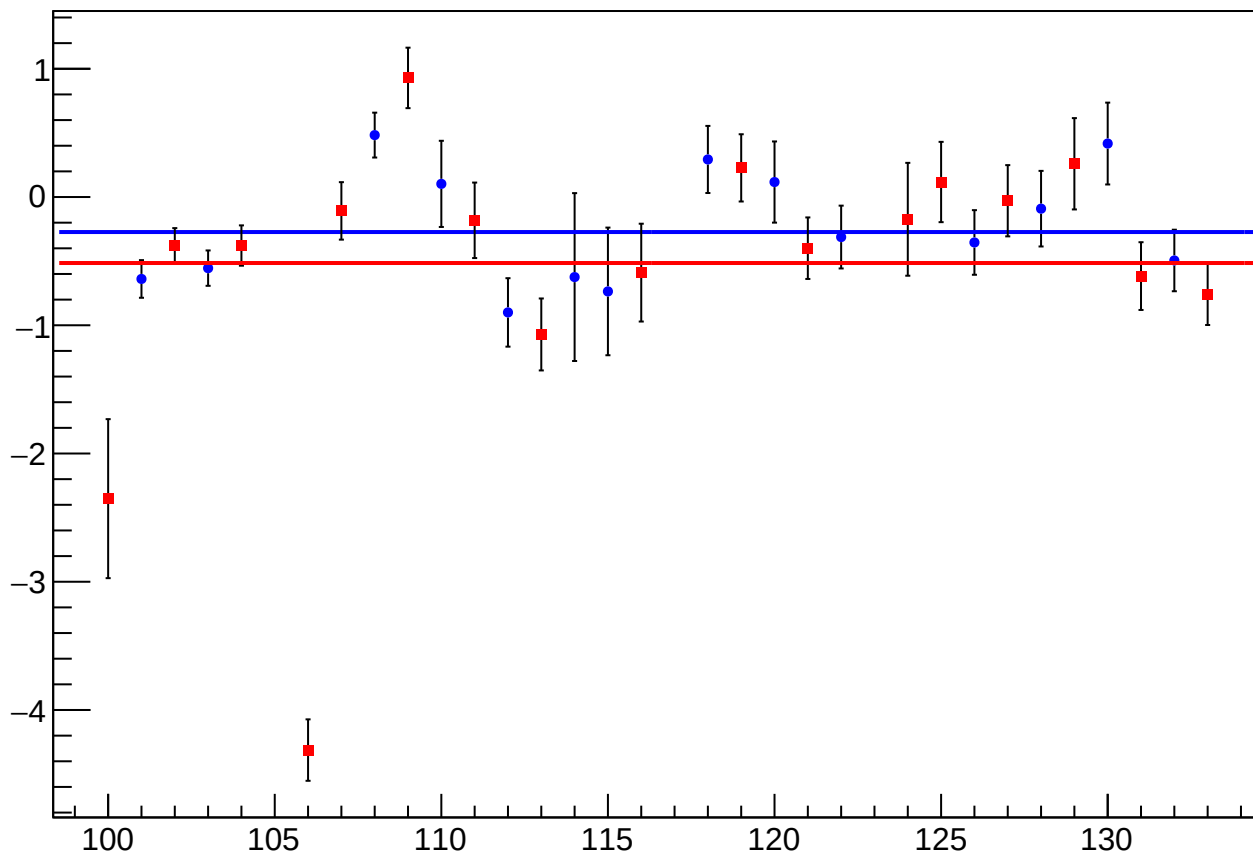
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -93.778+/-0.699  $\chi^2/\text{NDF}$ : 2436.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.273 \pm 0.062$   $\chi^2/\text{NDF}$ : 49.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.515 \pm 0.059$   $\chi^2/\text{NDF}$ : 329.7/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

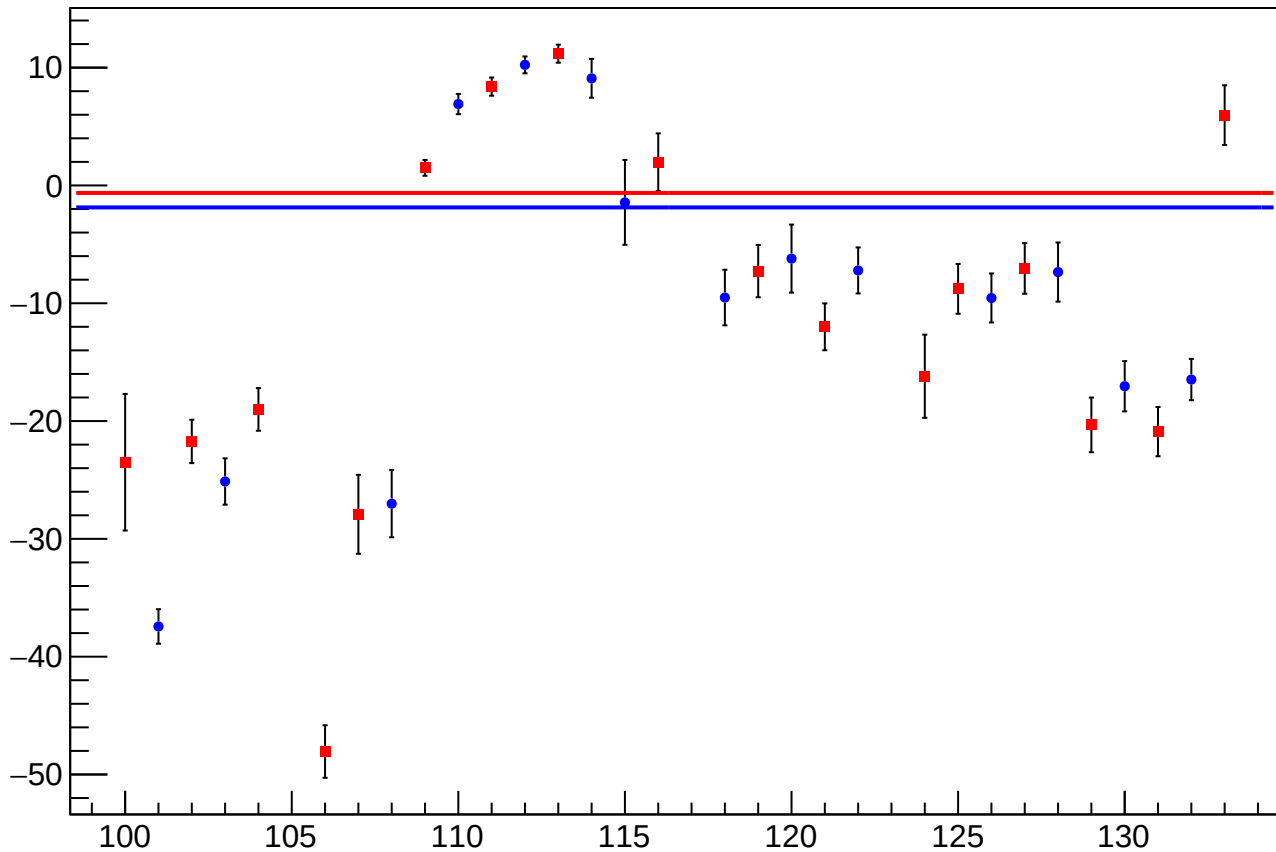
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.400 \pm 0.043$   $\chi^2/\text{NDF}$ : 386.7/30

- 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:  $-1.866 \pm 0.405$   $\chi^2/\text{NDF}$ : 1402.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.636 \pm 0.349$   $\chi^2/\text{NDF}$ : 1411.9/16

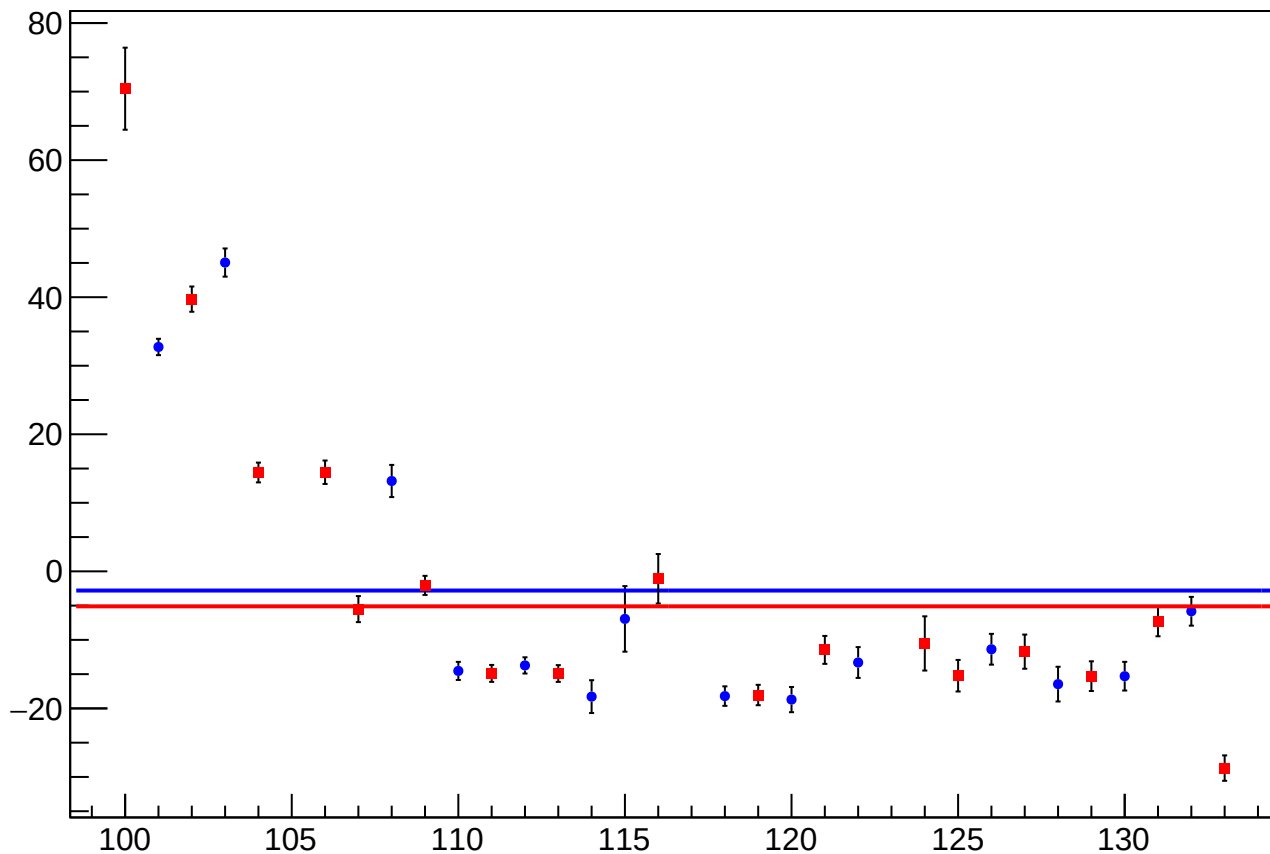
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.160 \pm 0.264$   $\chi^2/\text{NDF}$ : 2819.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-2.802 \pm 0.476$   $\chi^2/\text{NDF}$ : 1976.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-5.107 \pm 0.440$   $\chi^2/\text{NDF}$ : 1497.3/16

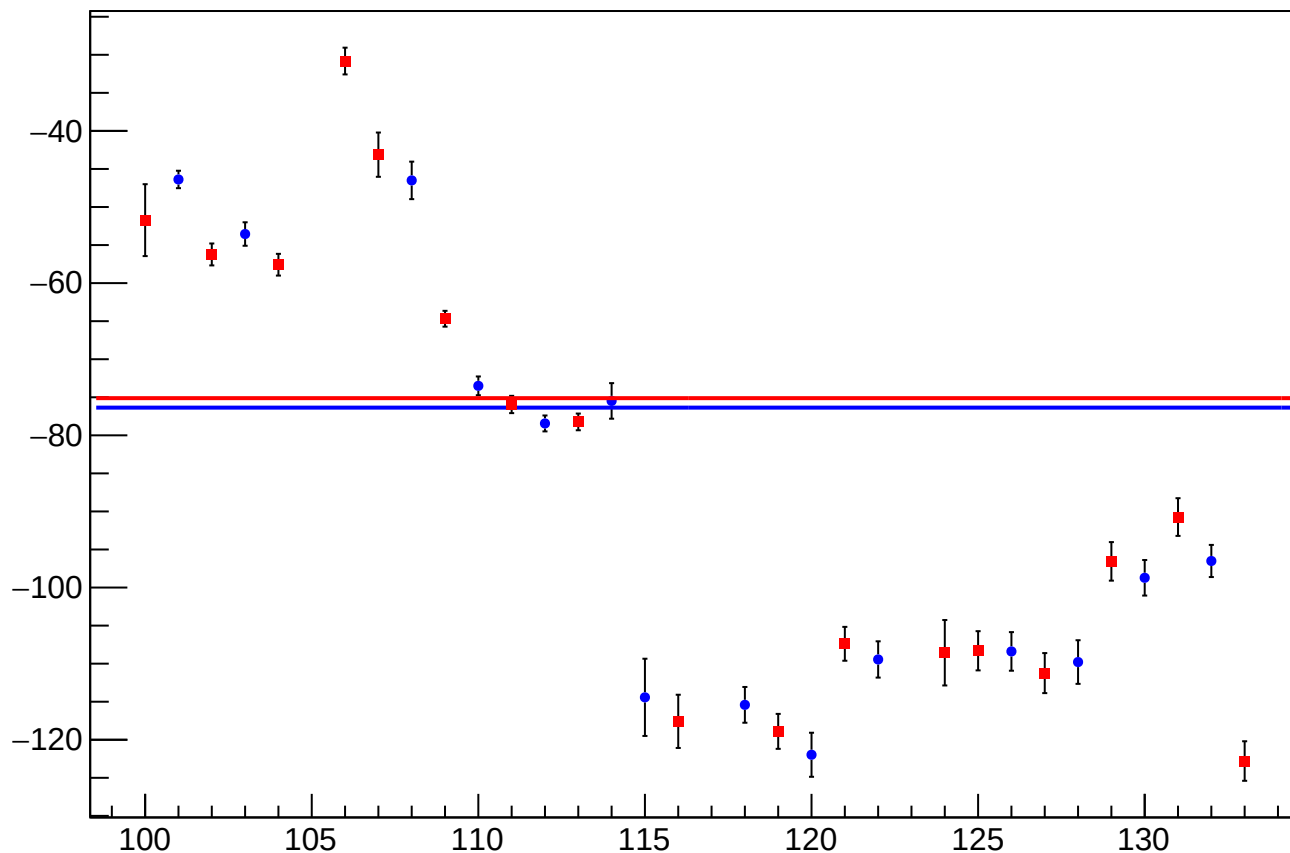
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-4.043 \pm 0.323$   $\chi^2/\text{NDF}$ : 3486.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -76.359 $\pm$ 0.482  $\chi^2$ /NDF: 2311.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -75.115 $\pm$ 0.435  $\chi^2$ /NDF: 2797.4/16

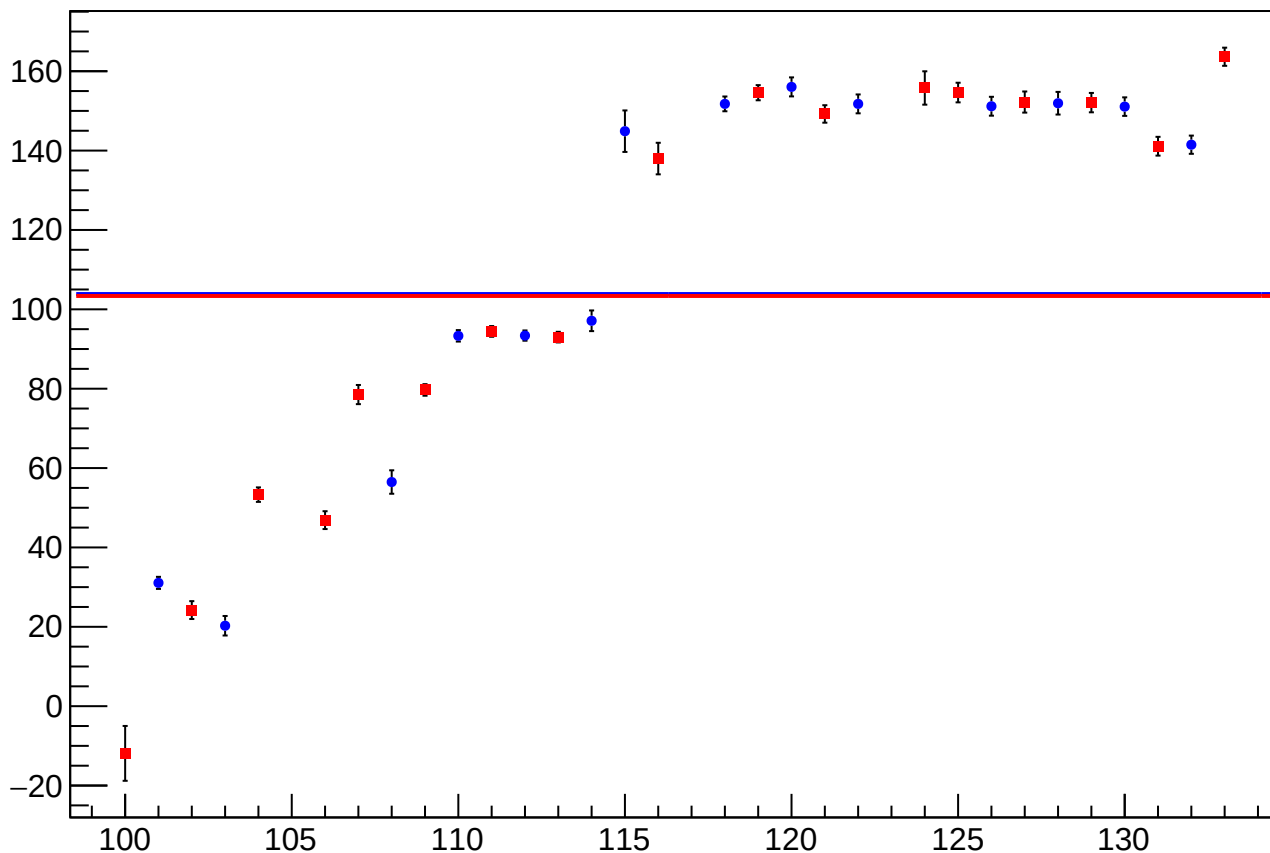
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -75.673 $\pm$ 0.323  $\chi^2$ /NDF: 5112.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 103.845 $\pm$ 0.552  $\chi^2$ /NDF: 6792.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.371 $\pm$ 0.506  $\chi^2$ /NDF: 6874.6/16

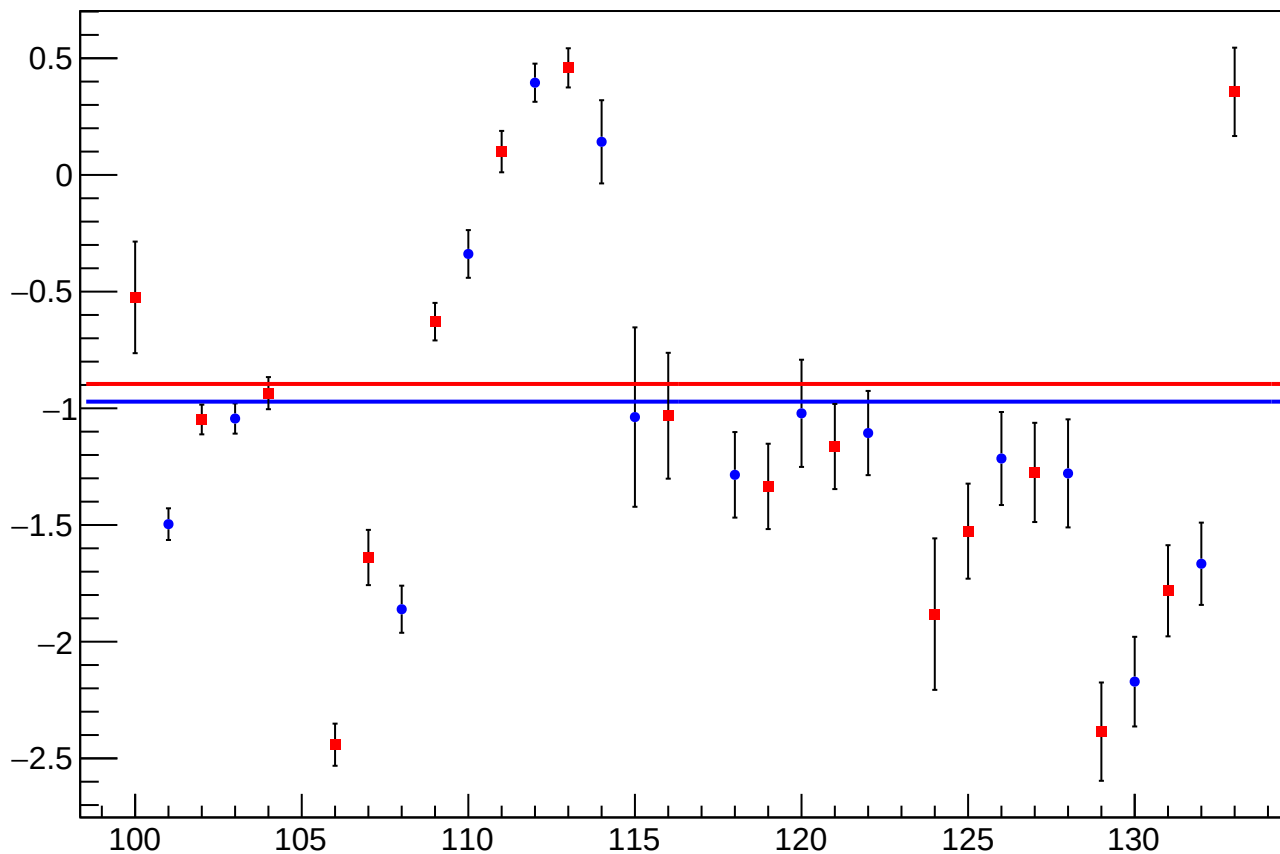
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 103.587 $\pm$ 0.373  $\chi^2$ /NDF: 13667.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.971 \pm 0.031$   $\chi^2/\text{NDF}: 557.0/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.896 \pm 0.028$   $\chi^2/\text{NDF}: 882.9/16$

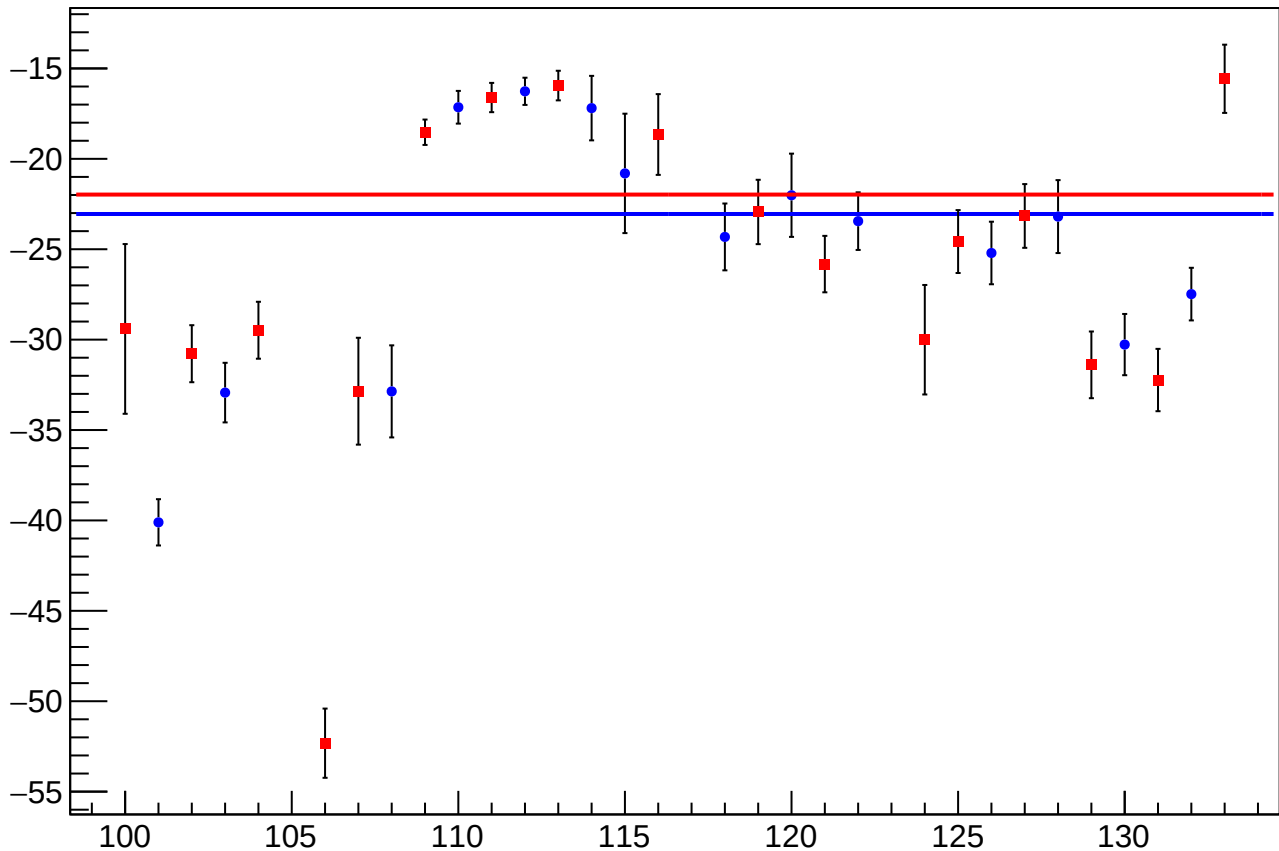
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.929 \pm 0.021$   $\chi^2/\text{NDF}: 1443.2/30$

- 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:  $-23.051 \pm 0.383$   $\chi^2/\text{NDF}$ : 393.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-21.977 \pm 0.335$   $\chi^2/\text{NDF}$ : 534.8/16

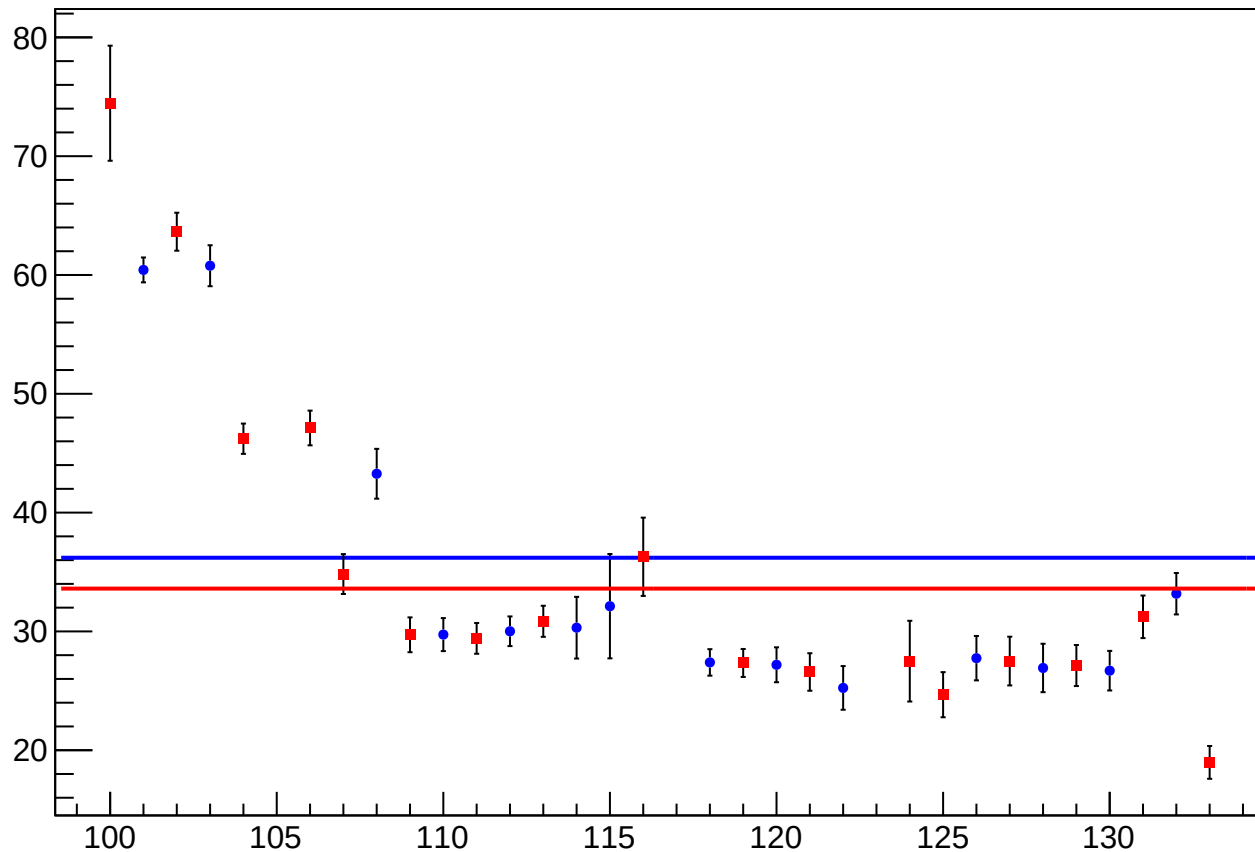
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-22.443 \pm 0.252$   $\chi^2/\text{NDF}$ : 932.5/30

- 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: 36.201 $\pm$ 0.422  $\chi^2$ /NDF: 1014.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 33.604 $\pm$ 0.392  $\chi^2$ /NDF: 841.3/16

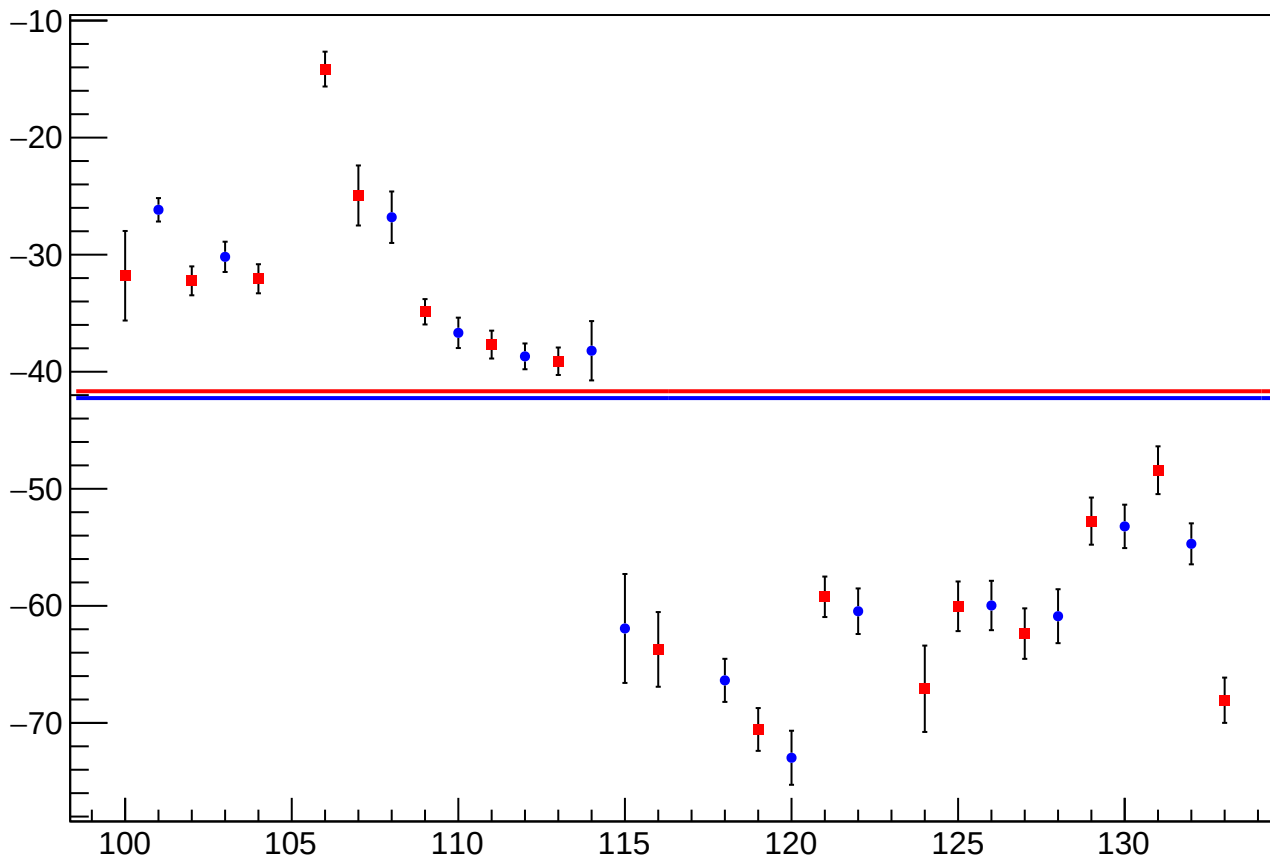
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 34.807 $\pm$ 0.287  $\chi^2$ /NDF: 1876.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-42.252 \pm 0.439$   $\chi^2/\text{NDF}$ : 1101.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-41.667 \pm 0.400$   $\chi^2/\text{NDF}$ : 1407.5/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

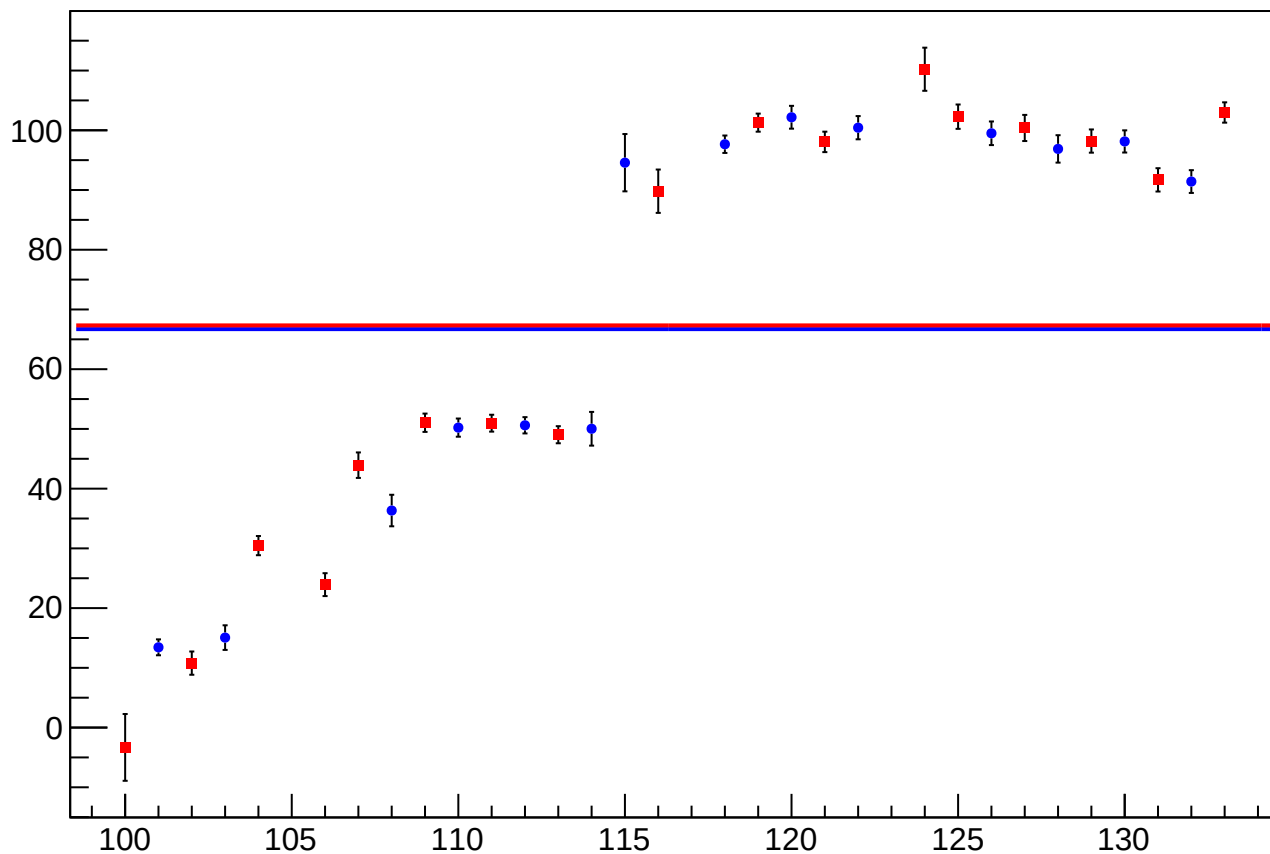
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-41.933 \pm 0.295$   $\chi^2/\text{NDF}$ : 2510.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 66.710 $\pm$ 0.494  $\chi^2$ /NDF: 4683.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.332 $\pm$ 0.454  $\chi^2$ /NDF: 4948.9/16

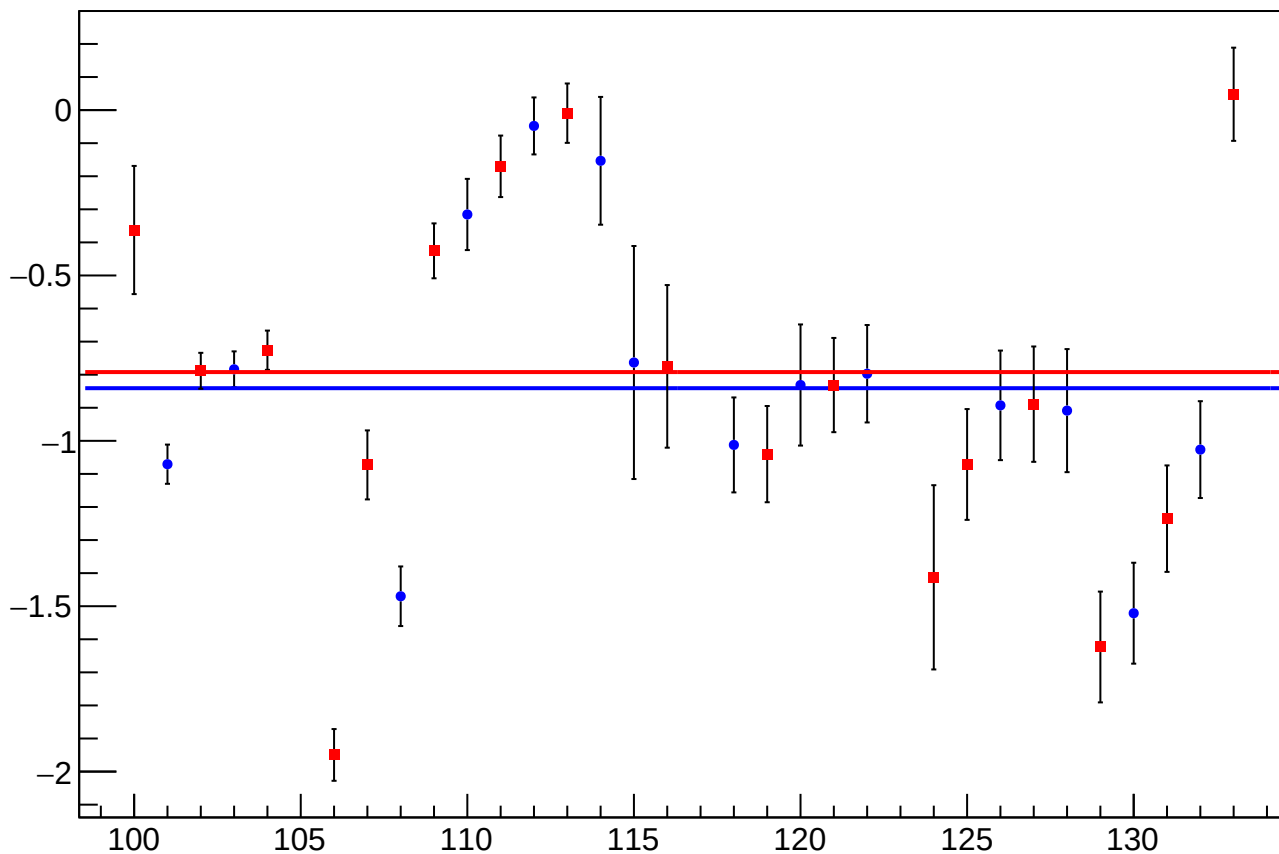
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 67.047 $\pm$ 0.334  $\chi^2$ /NDF: 9633.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.841 \pm 0.028$   $\chi^2/\text{NDF}$ : 209.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.792 \pm 0.025$   $\chi^2/\text{NDF}$ : 451.5/16

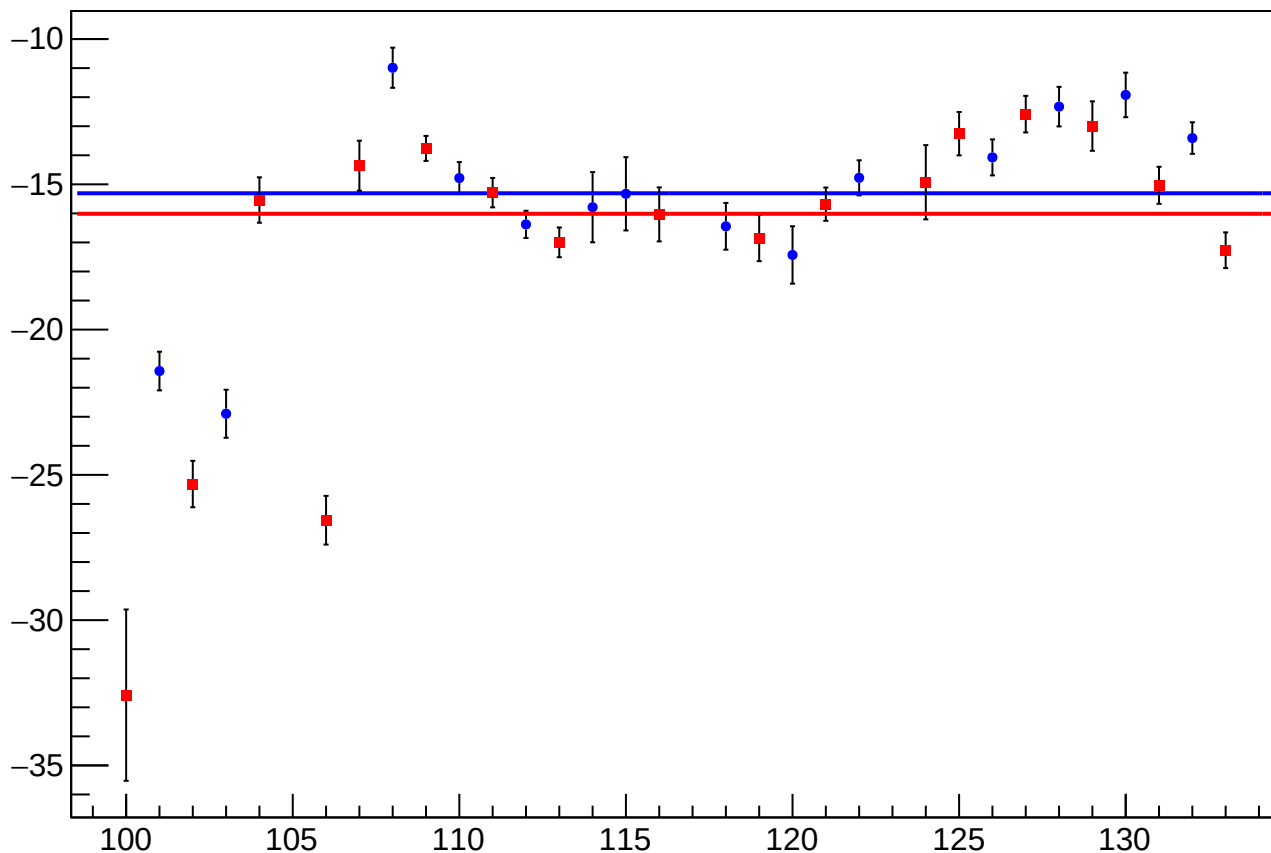
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.814 \pm 0.019$   $\chi^2/\text{NDF}$ : 662.5/30

- 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:  $-15.308 \pm 0.182$   $\chi^2/\text{NDF}$ : 276.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-16.014 \pm 0.166$   $\chi^2/\text{NDF}$ : 427.3/16

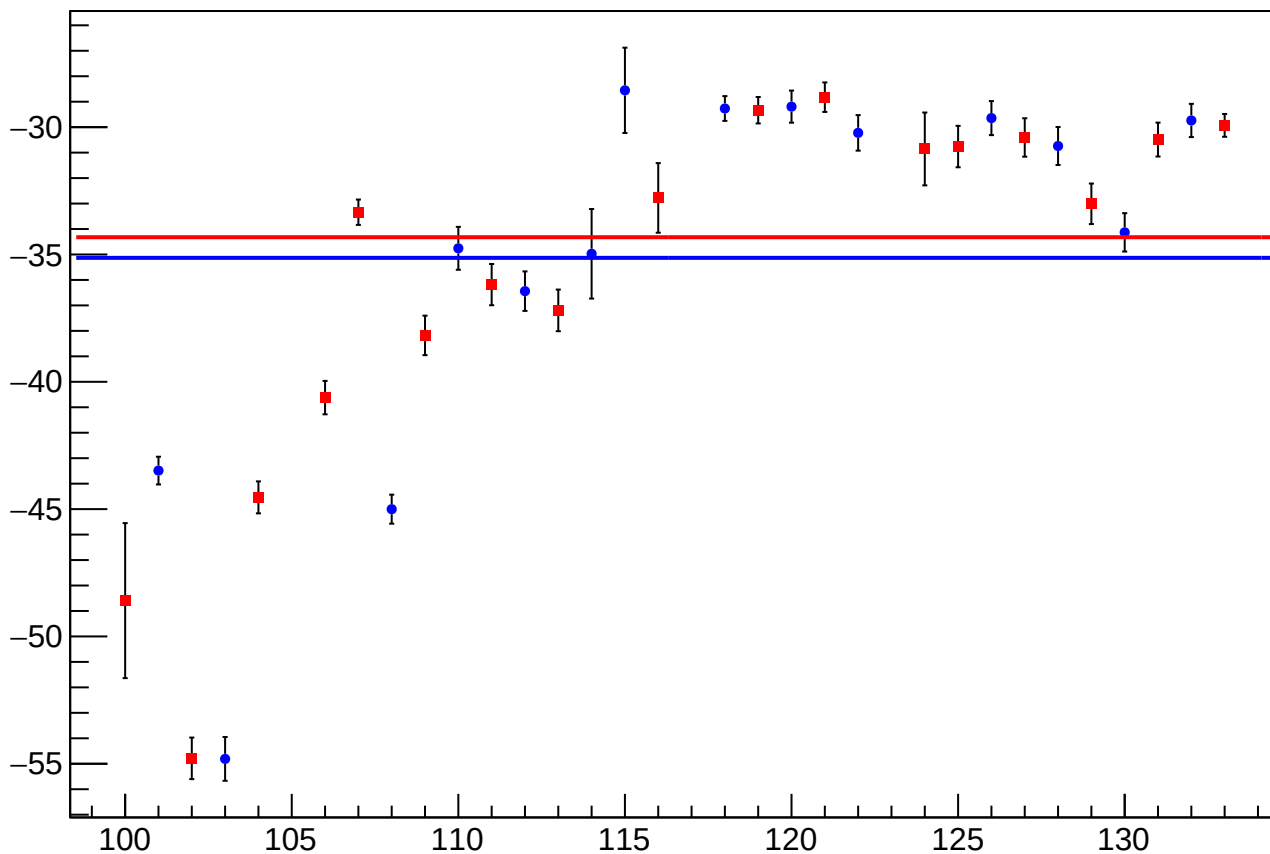
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-15.694 \pm 0.123$   $\chi^2/\text{NDF}$ : 711.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-35.132 \pm 0.187$   $\chi^2/\text{NDF}$ : 1533.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-34.322 \pm 0.169$   $\chi^2/\text{NDF}$ : 1421.5/16

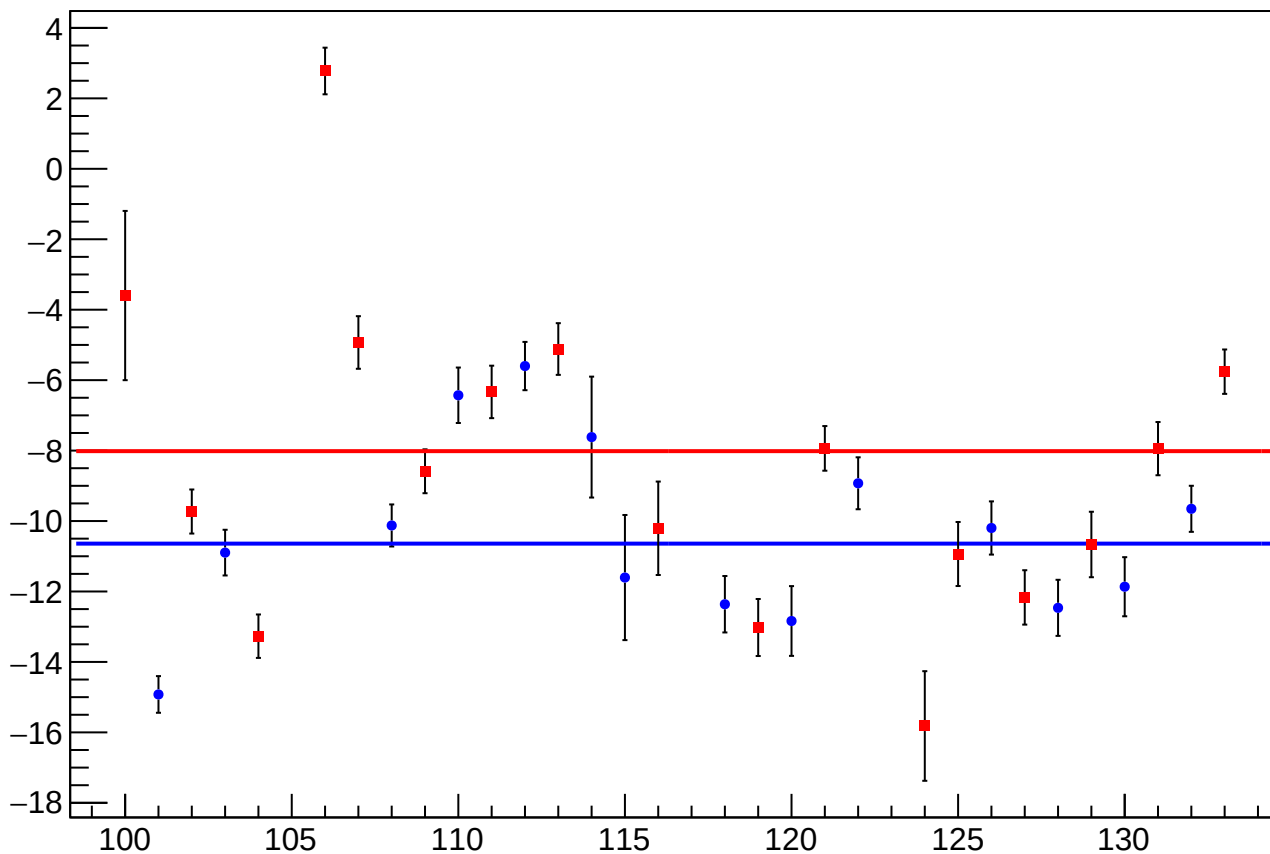
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-34.686 \pm 0.125$   $\chi^2/\text{NDF}$ : 2965.4/30

- 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: -10.641 $\pm$ 0.201  $\chi^2$ /NDF: 179.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.016 $\pm$ 0.186  $\chi^2$ /NDF: 514.2/16

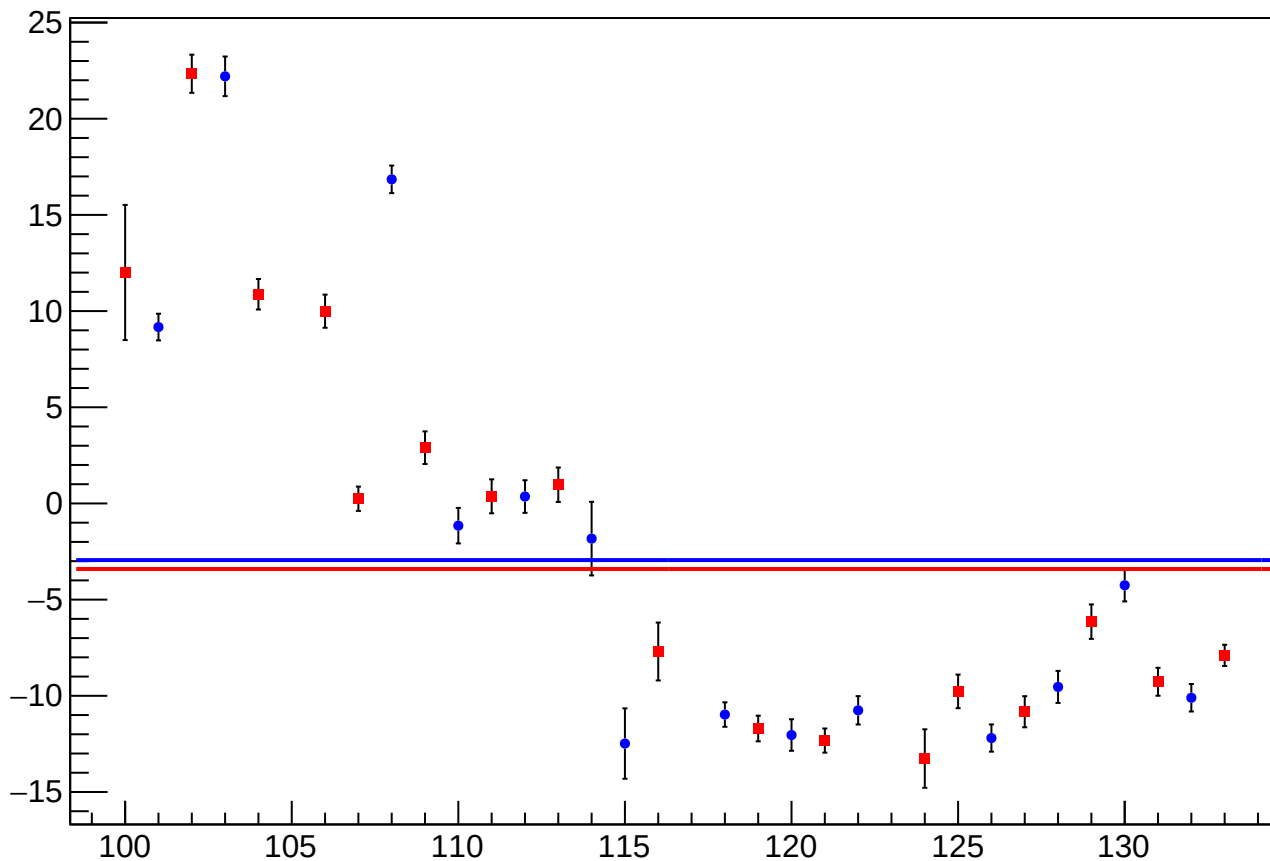
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9.226 $\pm$ 0.136  $\chi^2$ /NDF: 785.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -2.945+/-0.220  $\chi^2/\text{NDF}$ : 2441.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.407+/-0.198  $\chi^2/\text{NDF}$ : 2075.0/16

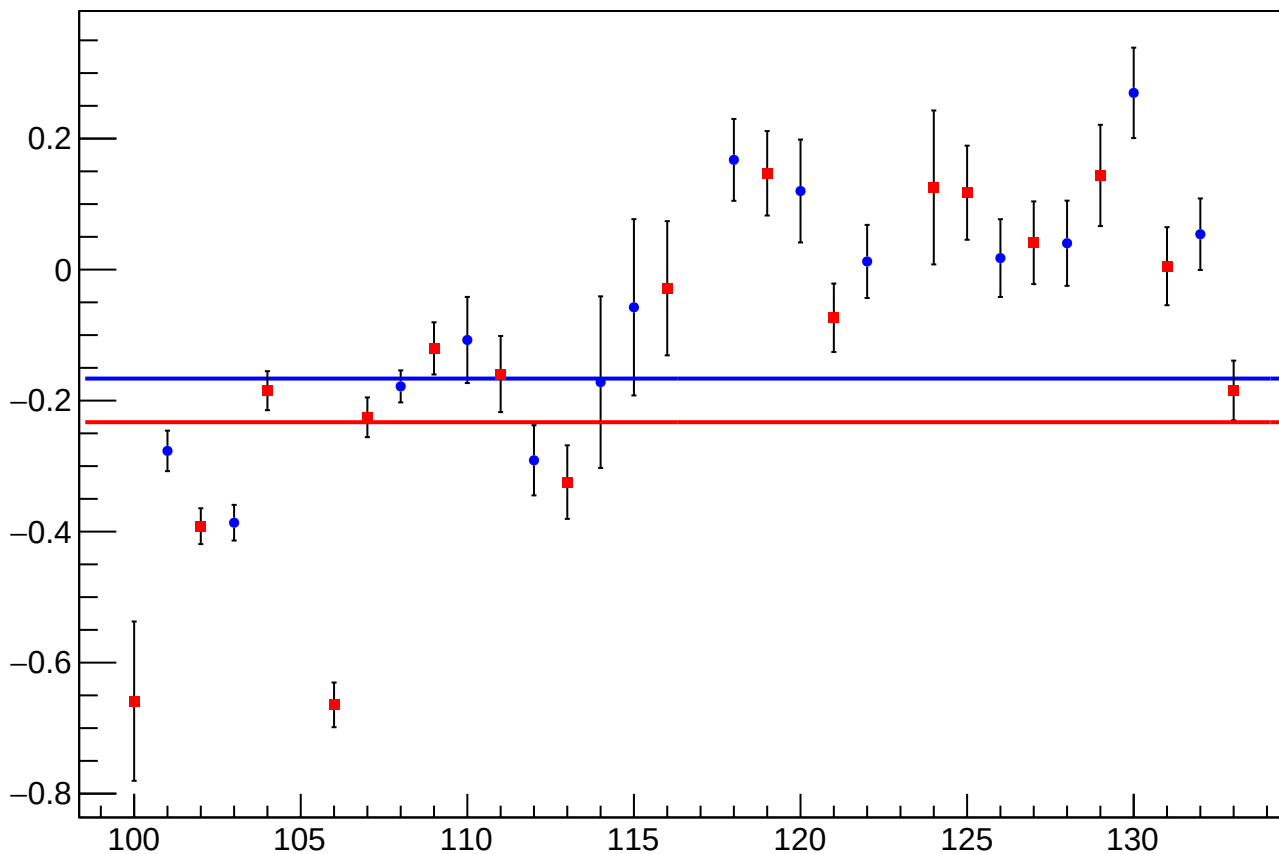
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.199+/-0.147  $\chi^2/\text{NDF}$ : 4519.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.166 \pm 0.012$   $\chi^2/\text{NDF}$ : 213.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.233 \pm 0.011$   $\chi^2/\text{NDF}$ : 361.6/16

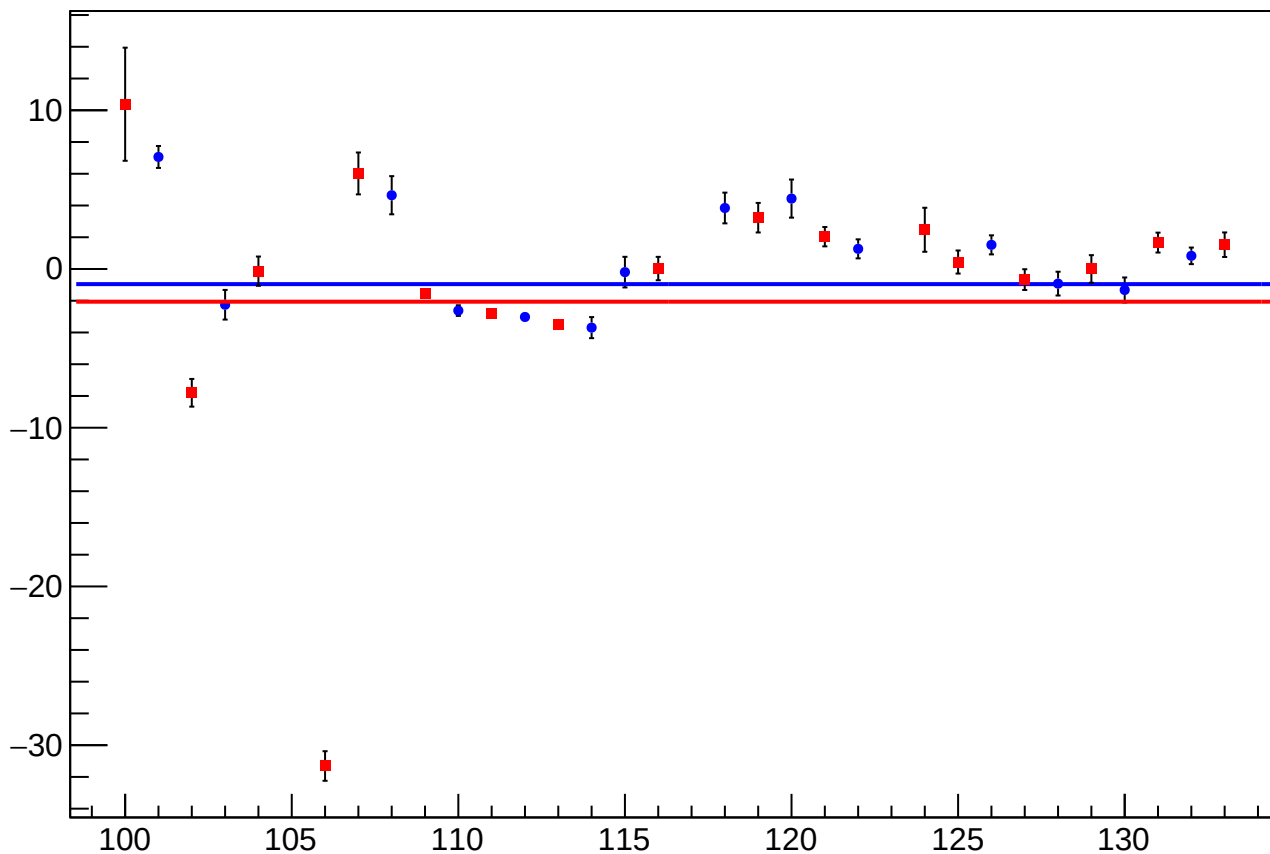
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.203 \pm 0.008$   $\chi^2/\text{NDF}$ : 590.6/30

- 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:  $-0.954 \pm 0.152$   $\chi^2/\text{NDF}$ : 343.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.061 \pm 0.134$   $\chi^2/\text{NDF}$ : 1288.4/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

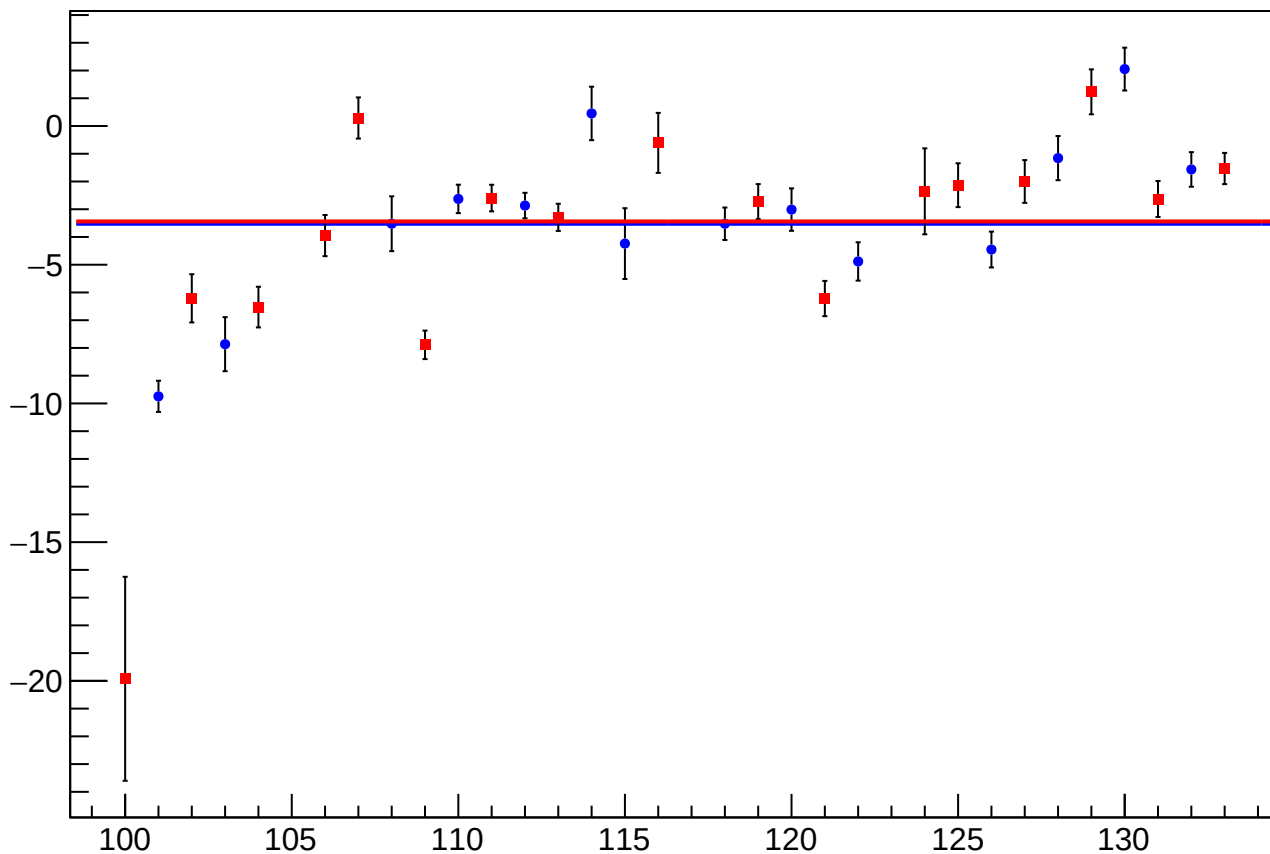
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.575 \pm 0.100$   $\chi^2/\text{NDF}$ : 1661.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -3.523+/-0.181  $\chi^2/\text{NDF}$ : 242.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.440+/-0.167  $\chi^2/\text{NDF}$ : 232.2/16

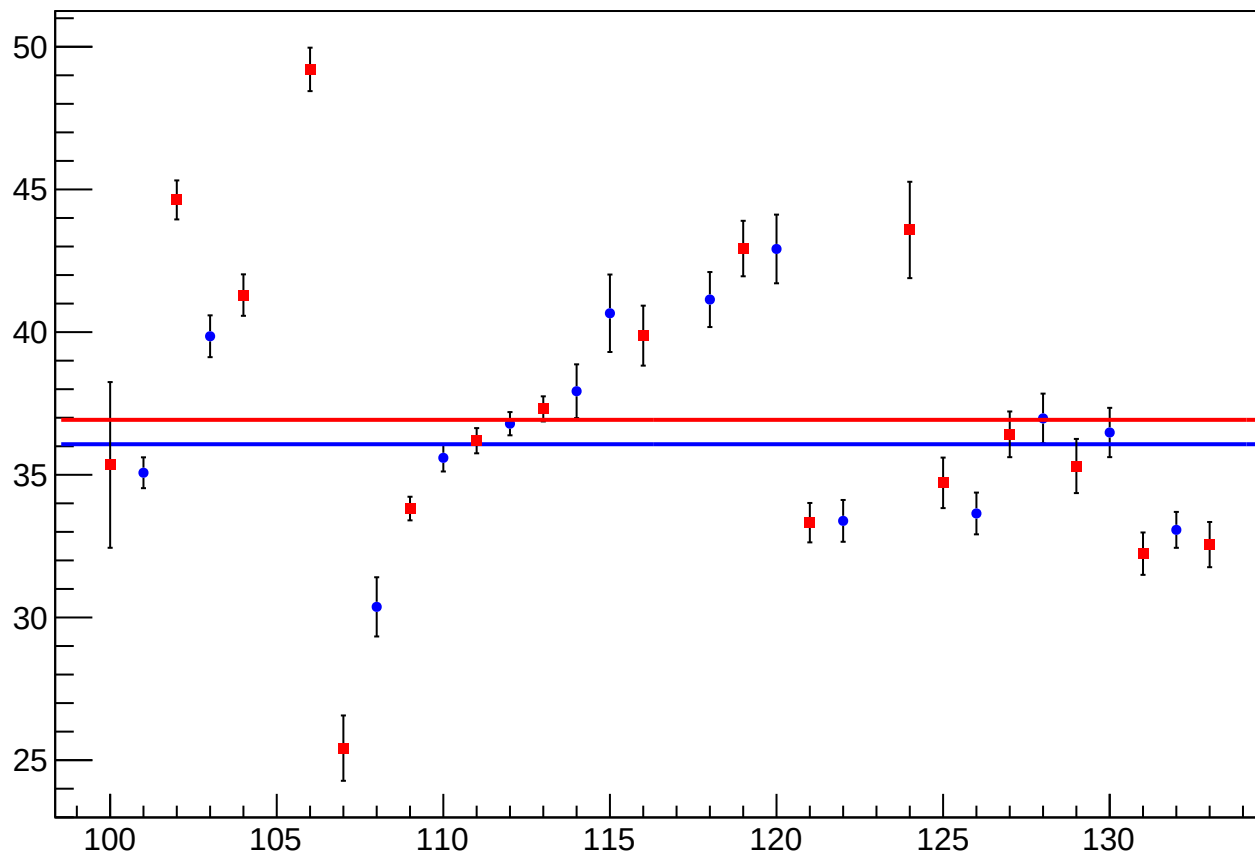
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.478+/-0.123  $\chi^2/\text{NDF}$ : 474.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 36.071+/-0.186  $\chi^2/\text{NDF}$ : 188.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.926+/-0.170  $\chi^2/\text{NDF}$ : 753.5/16

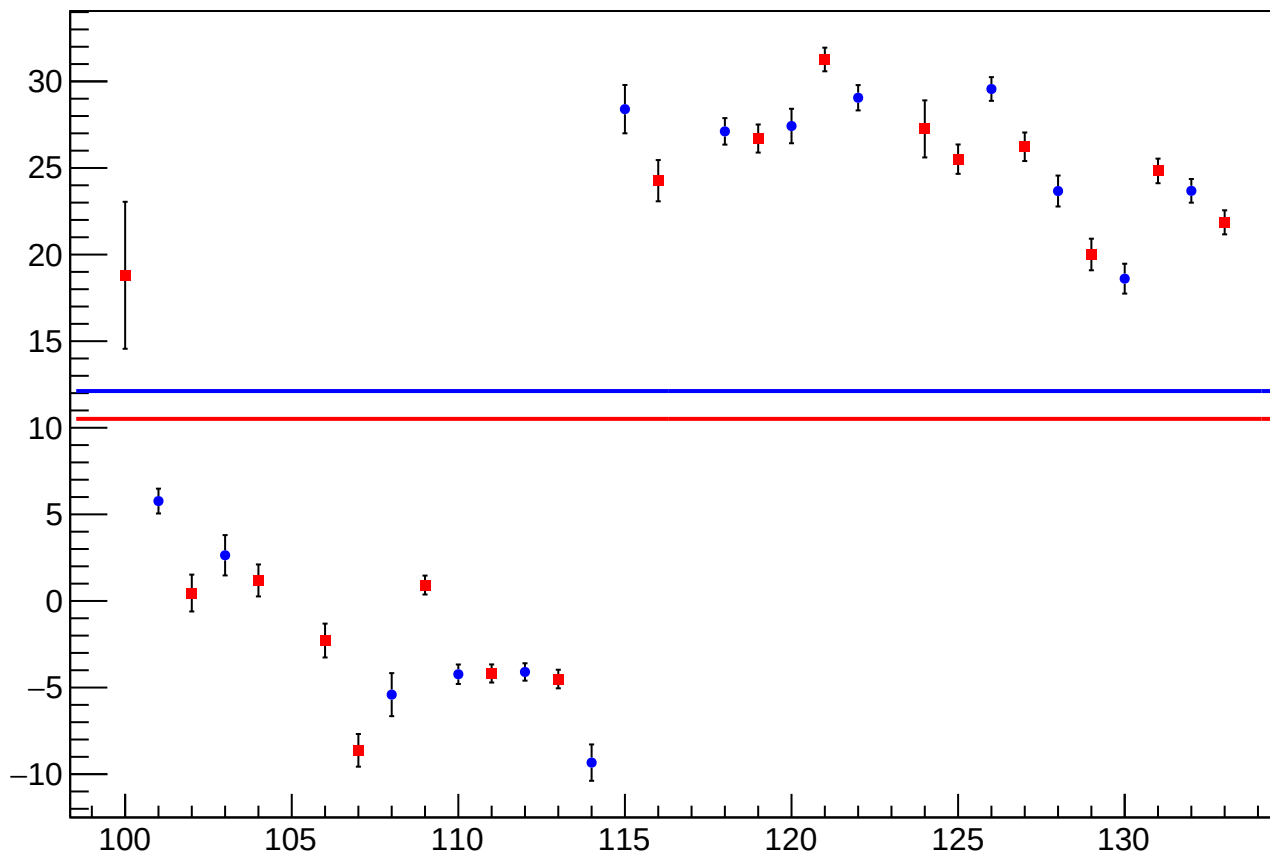
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.536+/-0.125  $\chi^2/\text{NDF}$ : 953.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 12.120+/-0.207  $\chi^2/\text{NDF}$ : 5103.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.513+/-0.190  $\chi^2/\text{NDF}$ : 5679.1/16

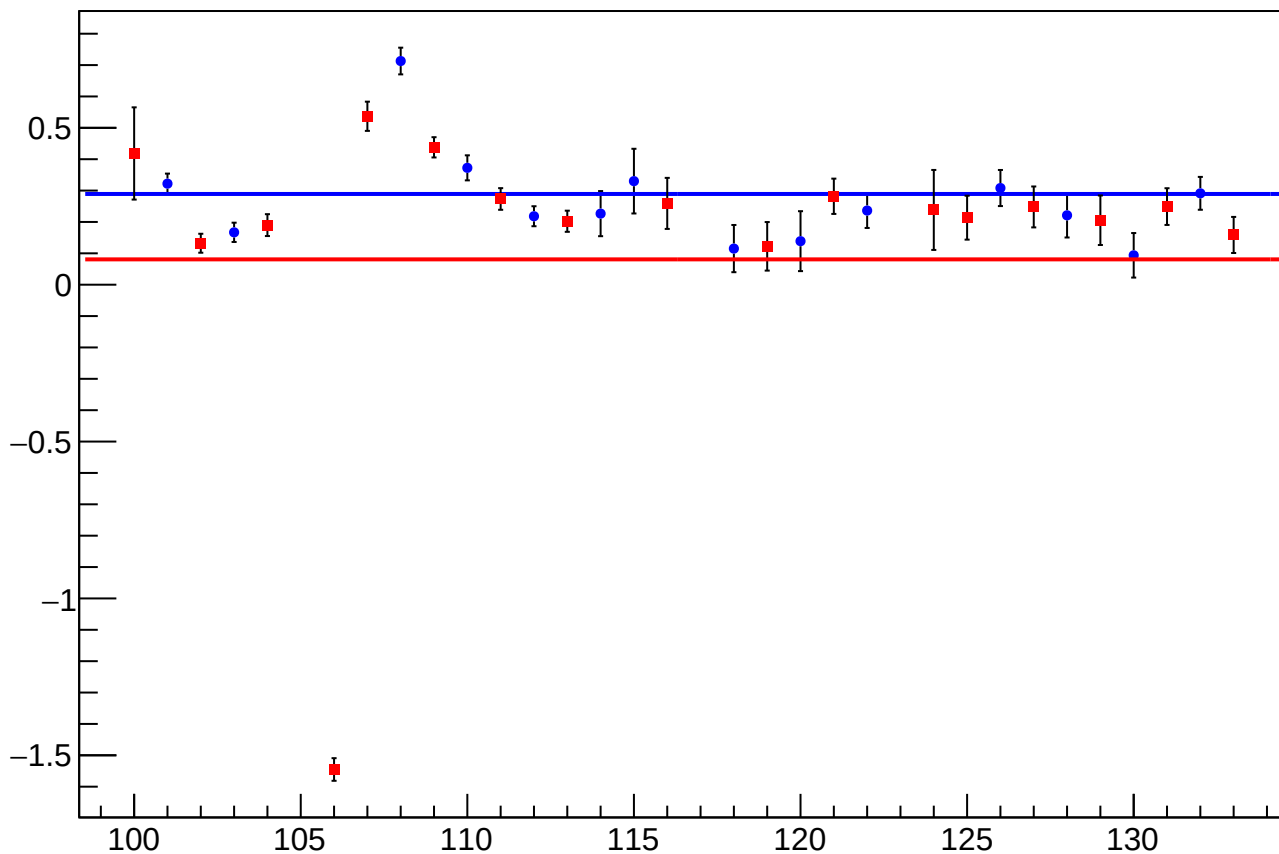
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11.249+/-0.140  $\chi^2/\text{NDF}$ : 10814.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.289 $\pm$ 0.013  $\chi^2$ /NDF: 143.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.081 $\pm$ 0.011  $\chi^2$ /NDF: 2354.7/16

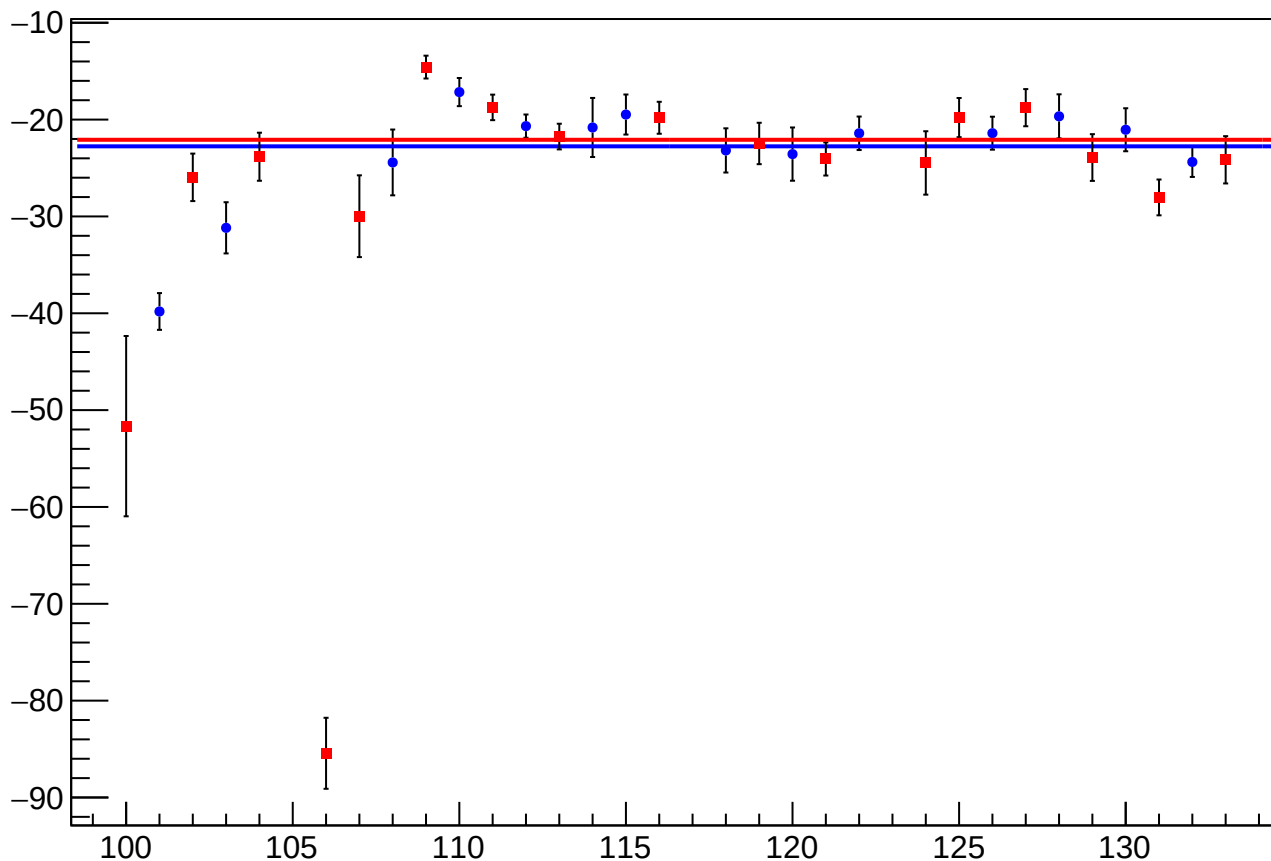
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.173 $\pm$ 0.008  $\chi^2$ /NDF: 2647.5/30

- 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:  $-22.762 \pm 0.511$   $\chi^2/\text{NDF}$ : 116.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-22.085 \pm 0.471$   $\chi^2/\text{NDF}$ : 382.0/16

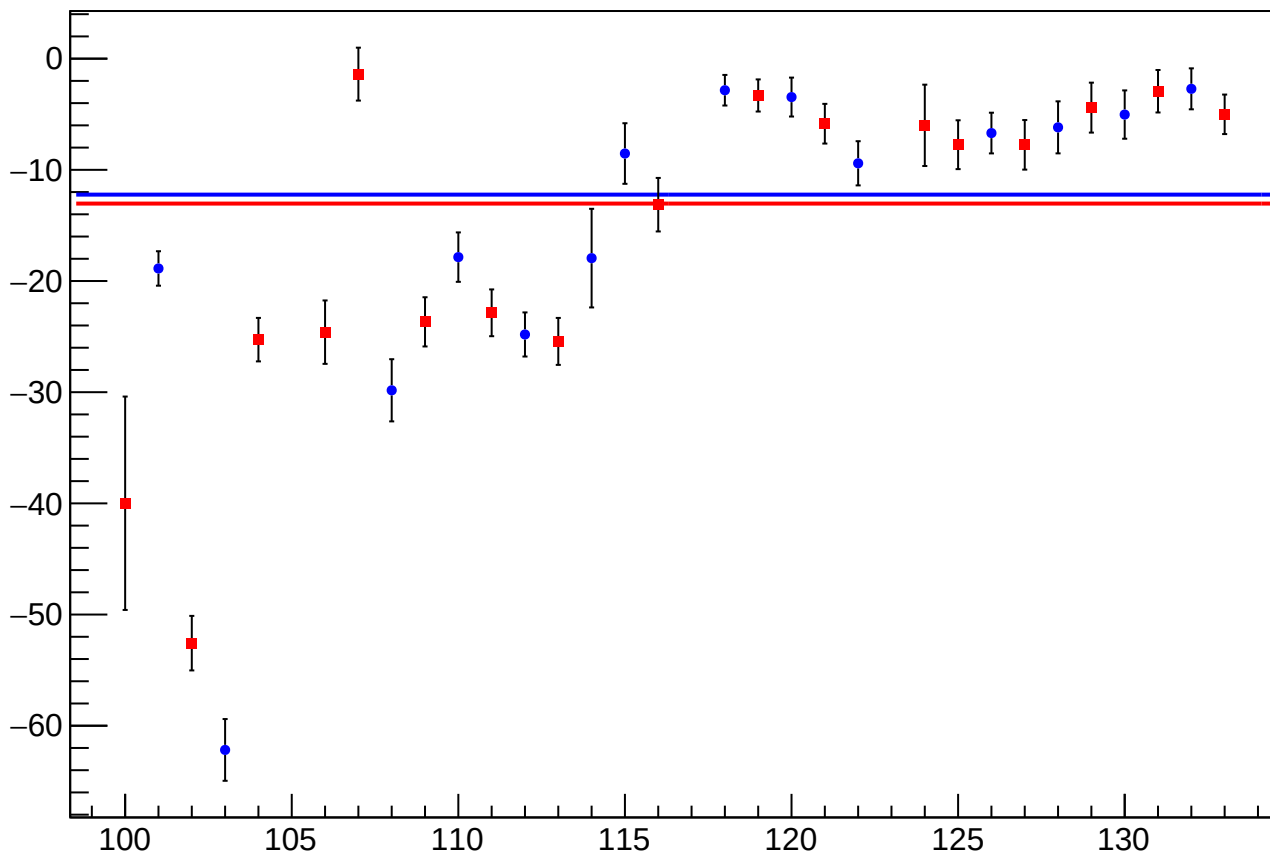
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-22.396 \pm 0.346$   $\chi^2/\text{NDF}$ : 499.7/30

- 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:  $-12.230 \pm 0.541$   $\chi^2/\text{NDF}$ : 558.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-13.035 \pm 0.525$   $\chi^2/\text{NDF}$ : 566.4/16

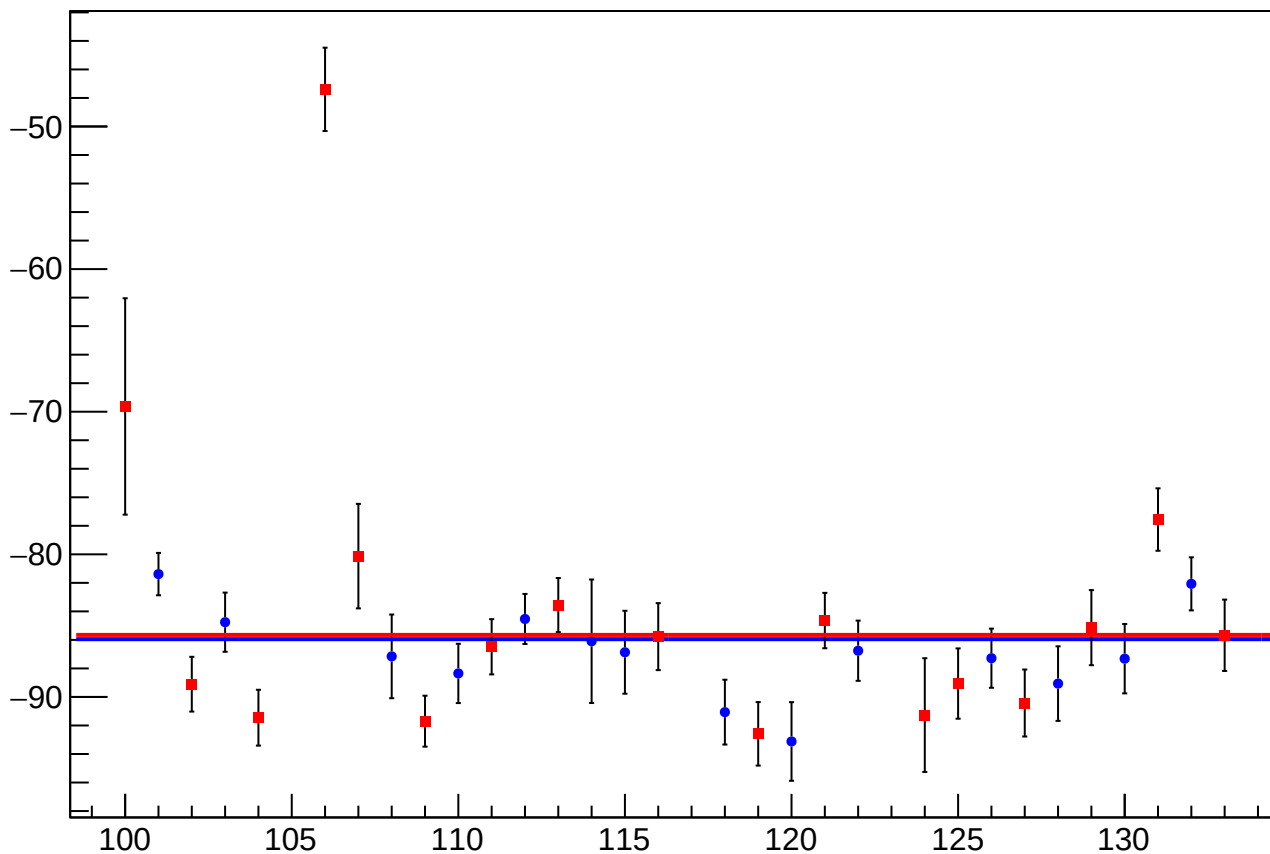
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-12.645 \pm 0.377$   $\chi^2/\text{NDF}$ : 1126.2/30

- 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:  $-85.949 \pm 0.586$   $\chi^2/\text{NDF}$ : 30.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-85.649 \pm 0.562$   $\chi^2/\text{NDF}$ : 234.7/16

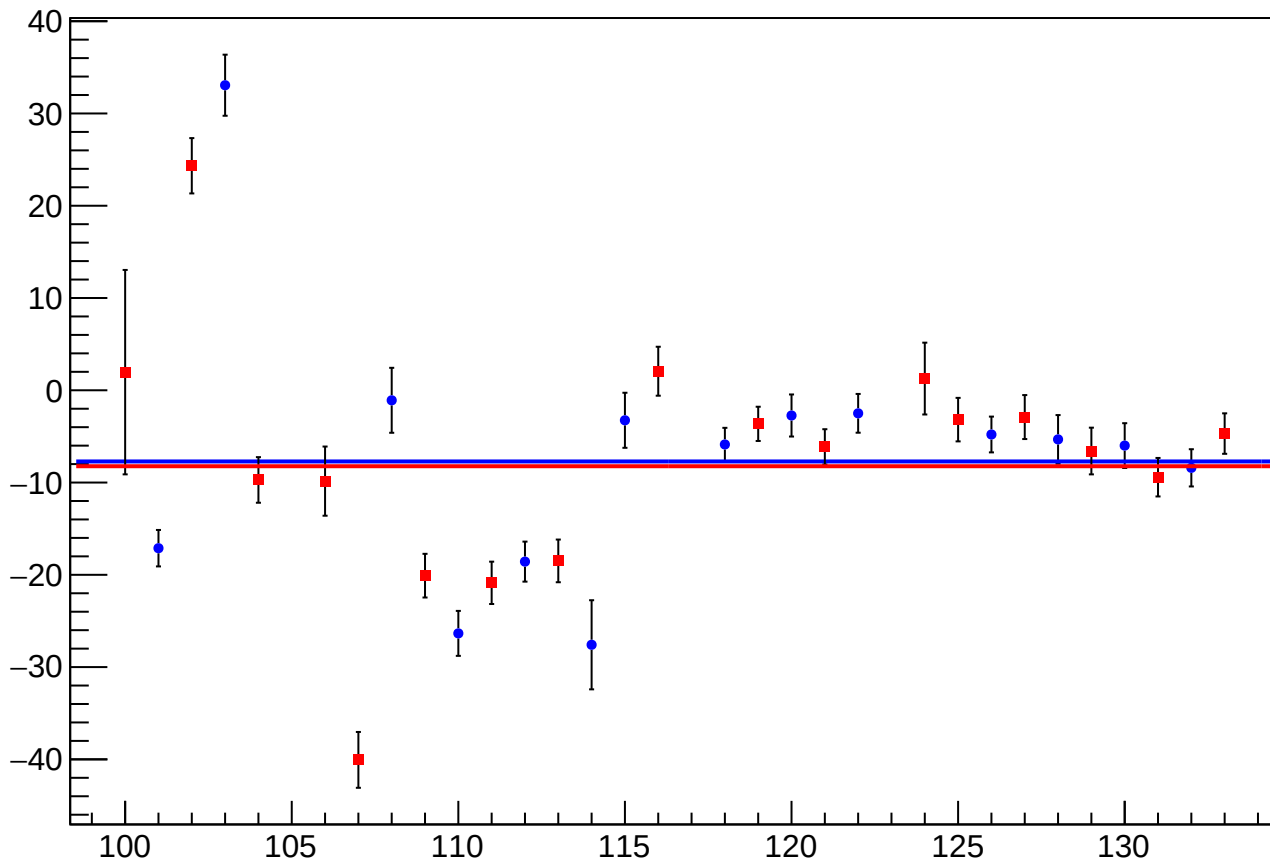
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-85.793 \pm 0.405$   $\chi^2/\text{NDF}$ : 265.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -7.714 $\pm$ 0.630  $\chi^2$ /NDF: 296.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.232 $\pm$ 0.604  $\chi^2$ /NDF: 346.4/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

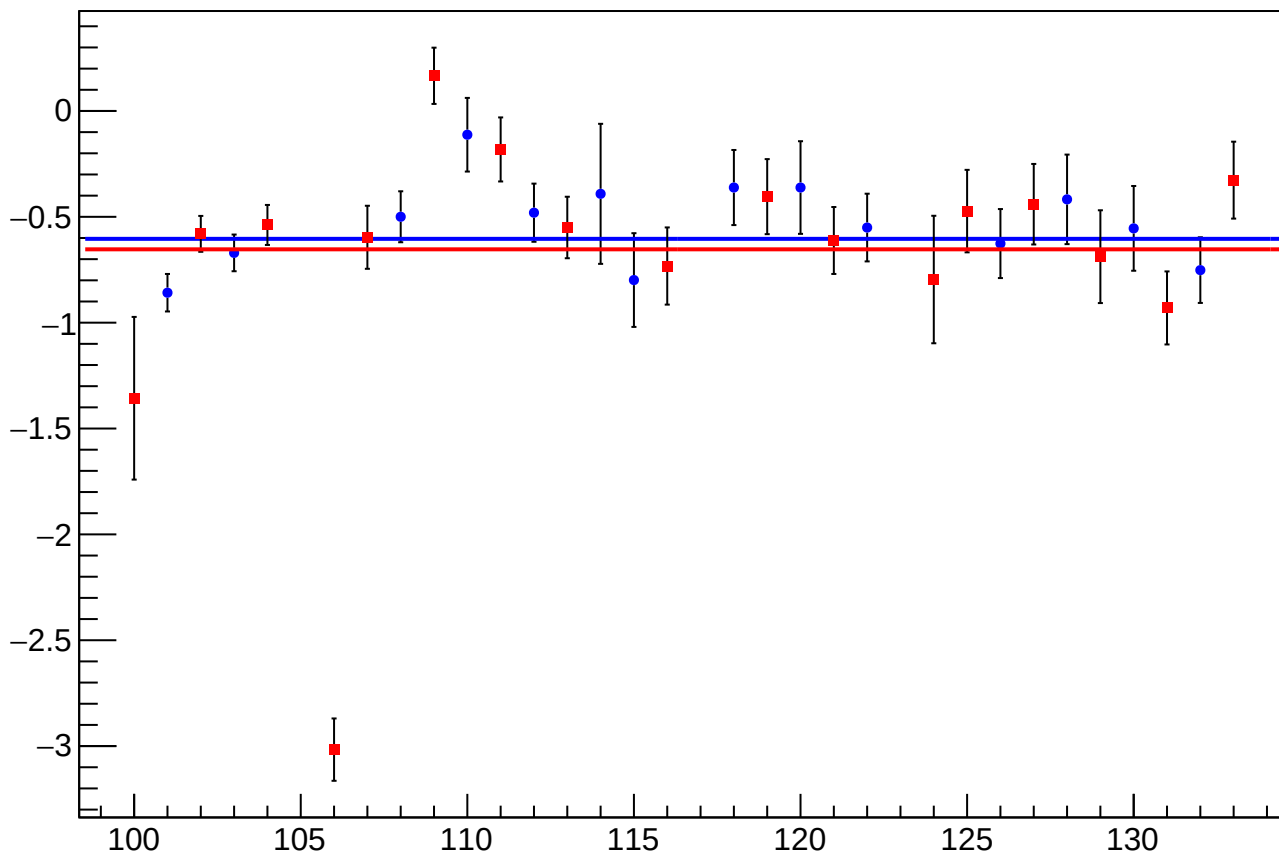
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -7.984 $\pm$ 0.436  $\chi^2$ /NDF: 643.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_24\_68\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.604 \pm 0.039$   $\chi^2/\text{NDF}$ : 24.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.654 \pm 0.037$   $\chi^2/\text{NDF}$ : 322.0/16

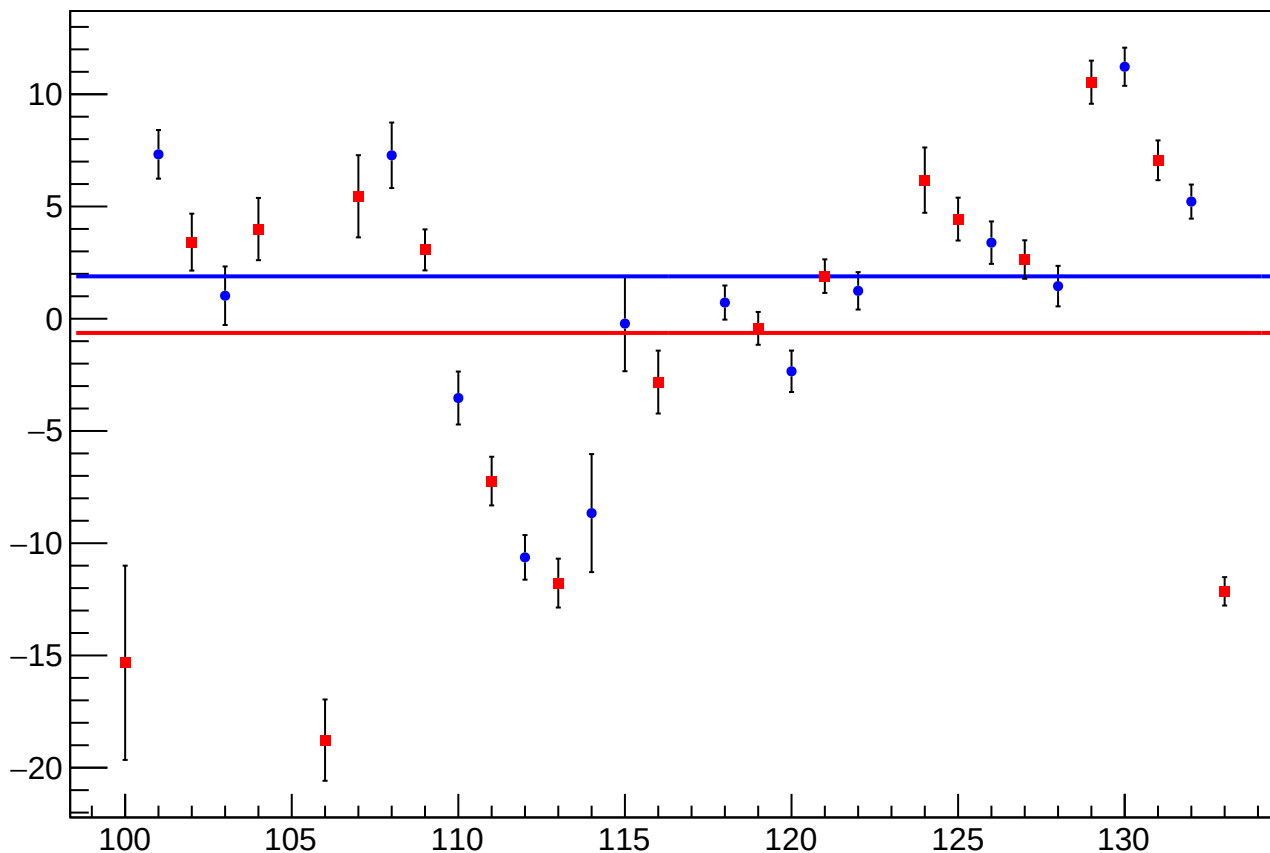
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.630 \pm 0.027$   $\chi^2/\text{NDF}$ : 347.4/30

- 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: 1.888 $\pm$ 0.269  $\chi^2$ /NDF: 402.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.633 $\pm$ 0.245  $\chi^2$ /NDF: 922.5/16

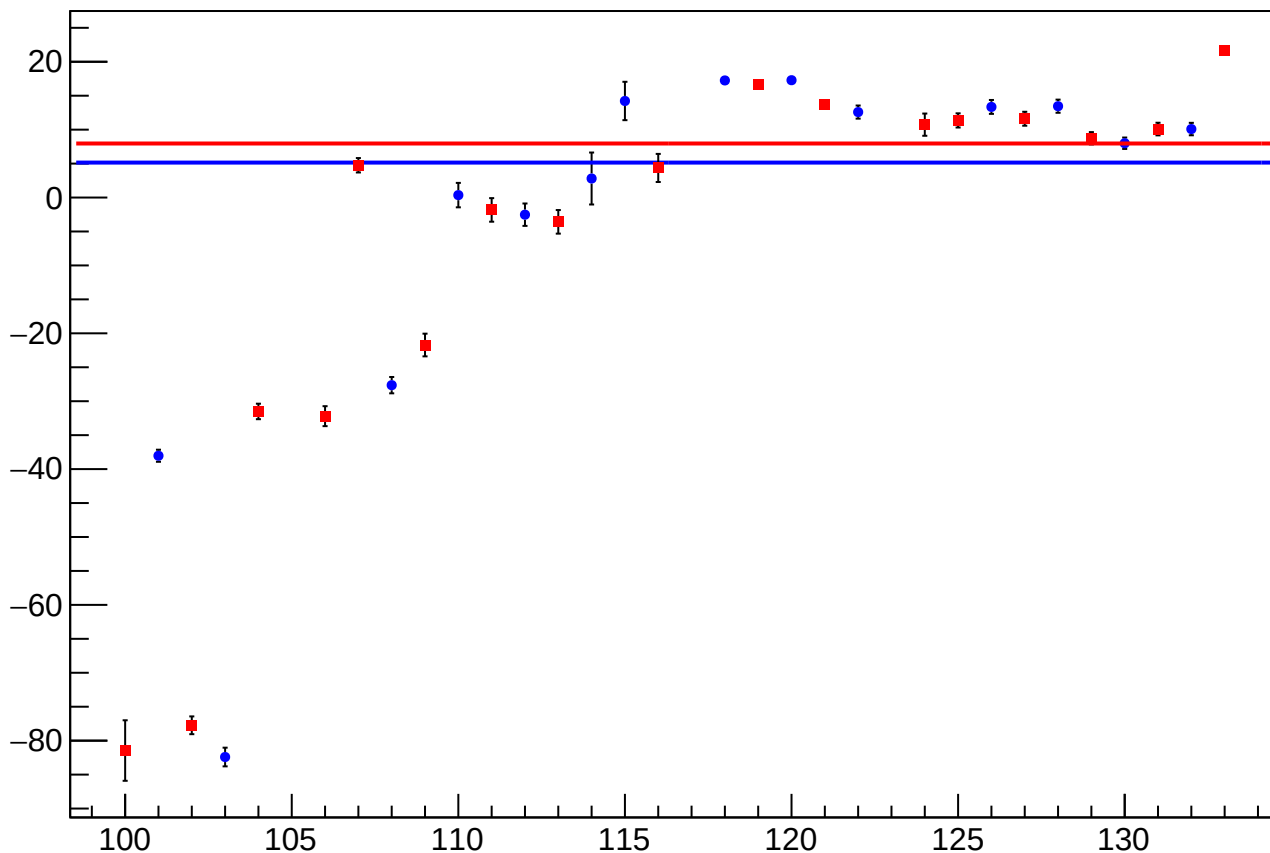
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.510 $\pm$ 0.181  $\chi^2$ /NDF: 1373.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 5.149 $\pm$ 0.245  $\chi^2$ /NDF: 8544.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7.960 $\pm$ 0.225  $\chi^2$ /NDF: 8339.3/16

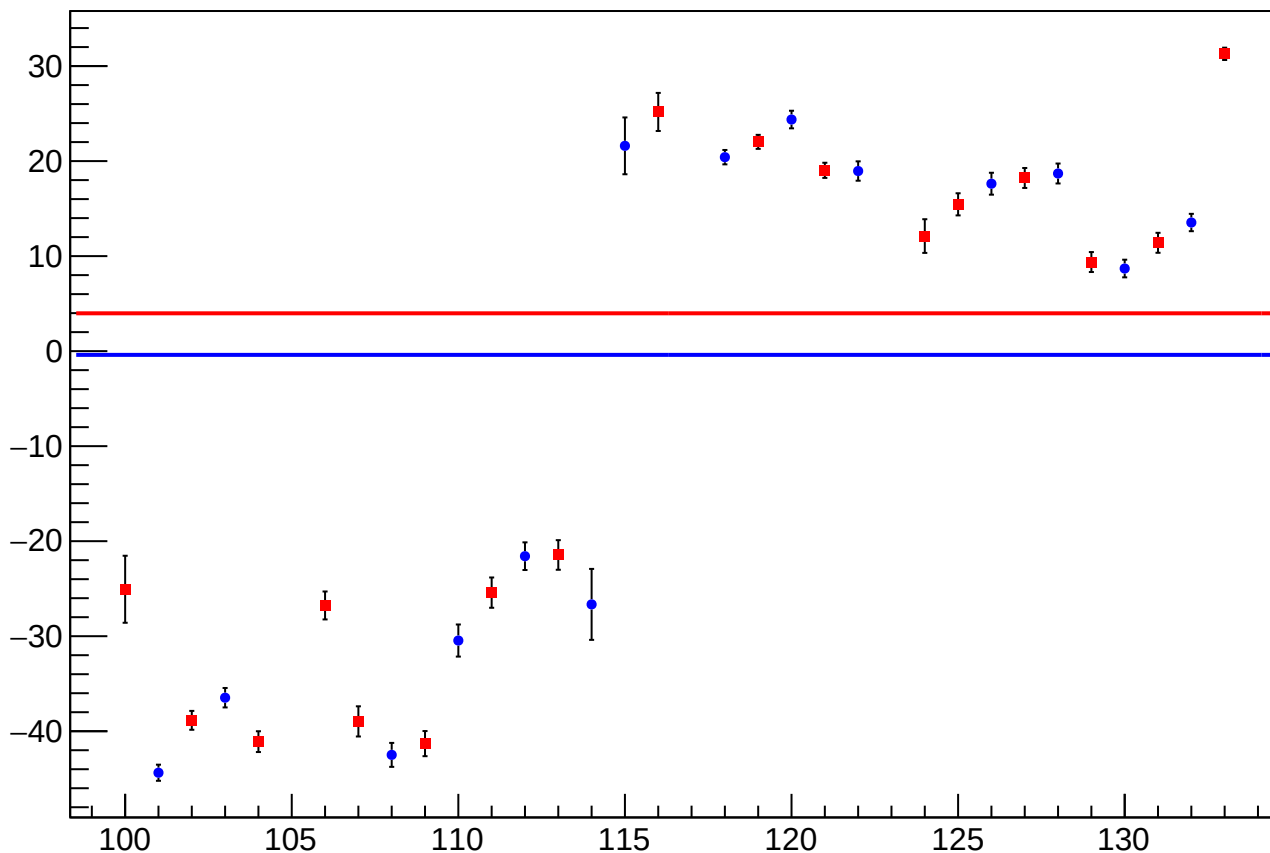
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.671 $\pm$ 0.166  $\chi^2$ /NDF: 16954.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.393 \pm 0.290$   $\chi^2/\text{NDF}$ : 8413.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $3.981 \pm 0.267$   $\chi^2/\text{NDF}$ : 9788.7/16

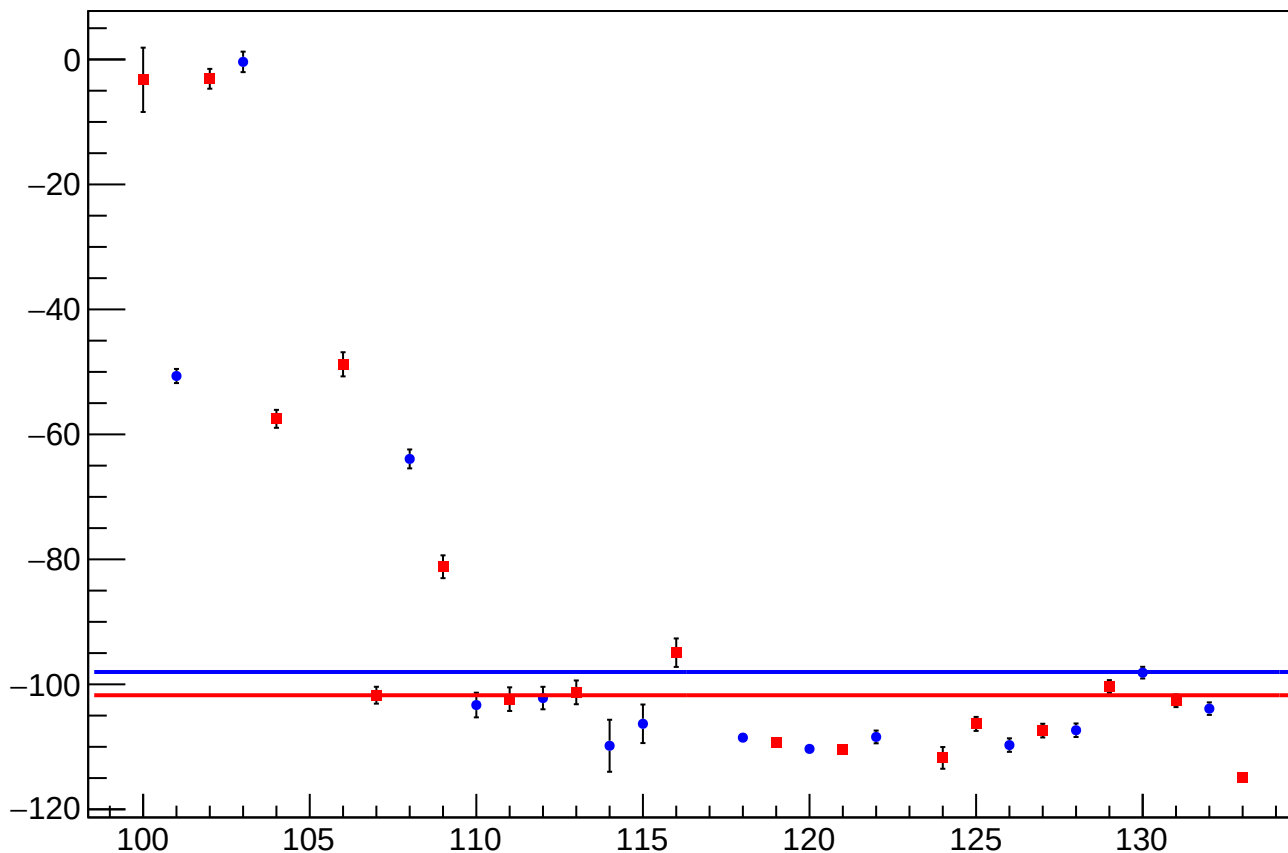
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $1.972 \pm 0.197$   $\chi^2/\text{NDF}$ : 18324.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-98.024 \pm 0.293$   $\chi^2/\text{NDF}: 6731.9/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-101.746 \pm 0.267$   $\chi^2/\text{NDF}: 6956.4/16$

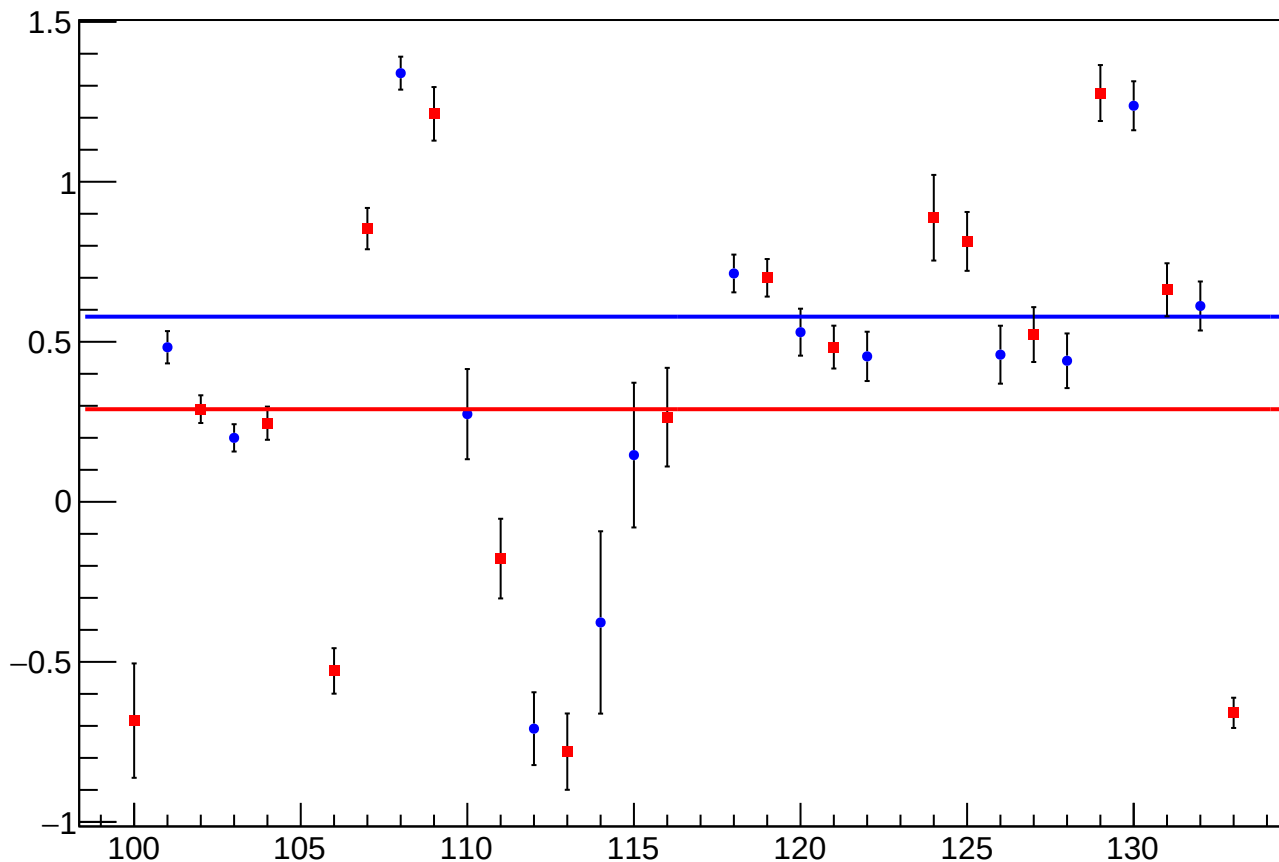
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-100.063 \pm 0.197$   $\chi^2/\text{NDF}: 13776.4/30$

- 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: 0.579 $\pm$ 0.019  $\chi^2$ /NDF: 535.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.289 $\pm$ 0.018  $\chi^2$ /NDF: 1123.9/16

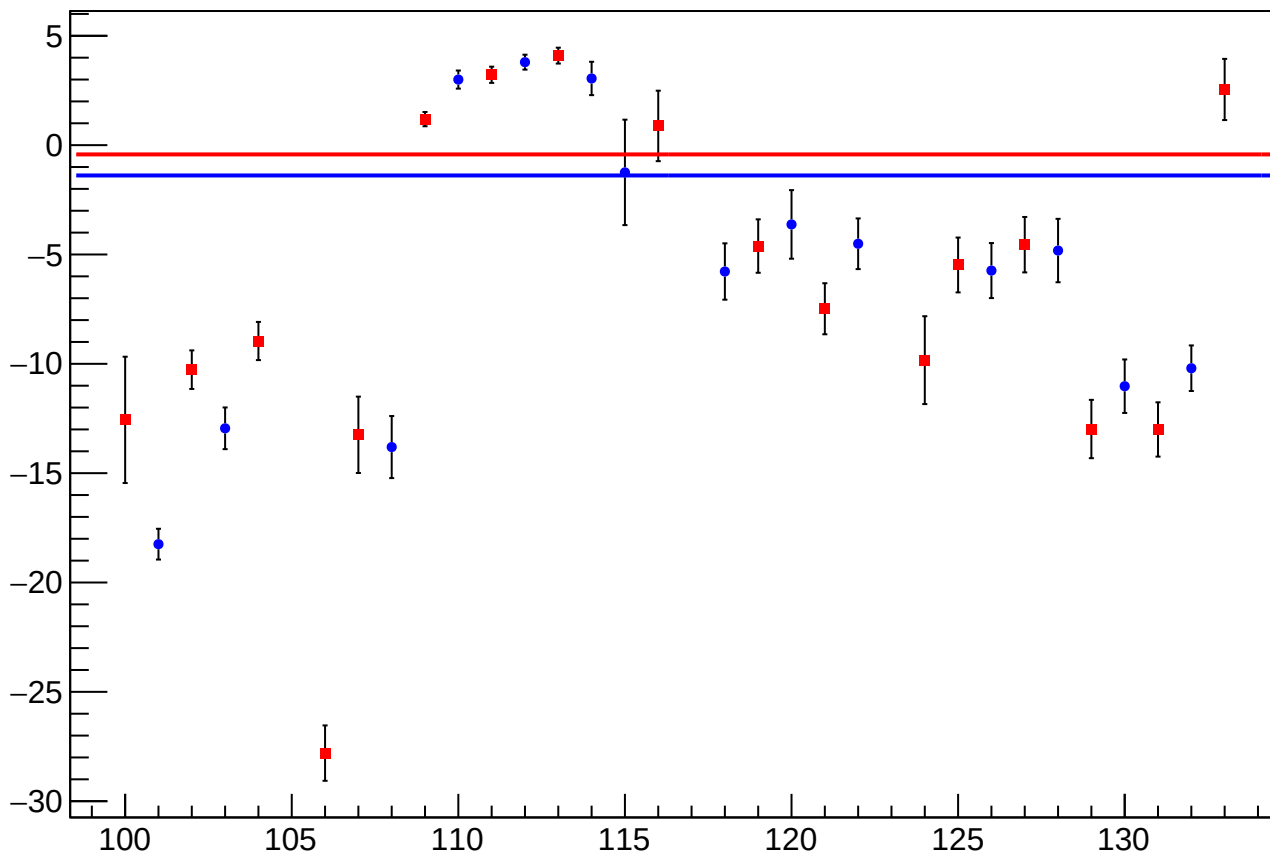
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.421 $\pm$ 0.013  $\chi^2$ /NDF: 1782.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -1.386+/-0.202  $\chi^2$ /NDF: 1346.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.424+/-0.174  $\chi^2$ /NDF: 1328.3/16

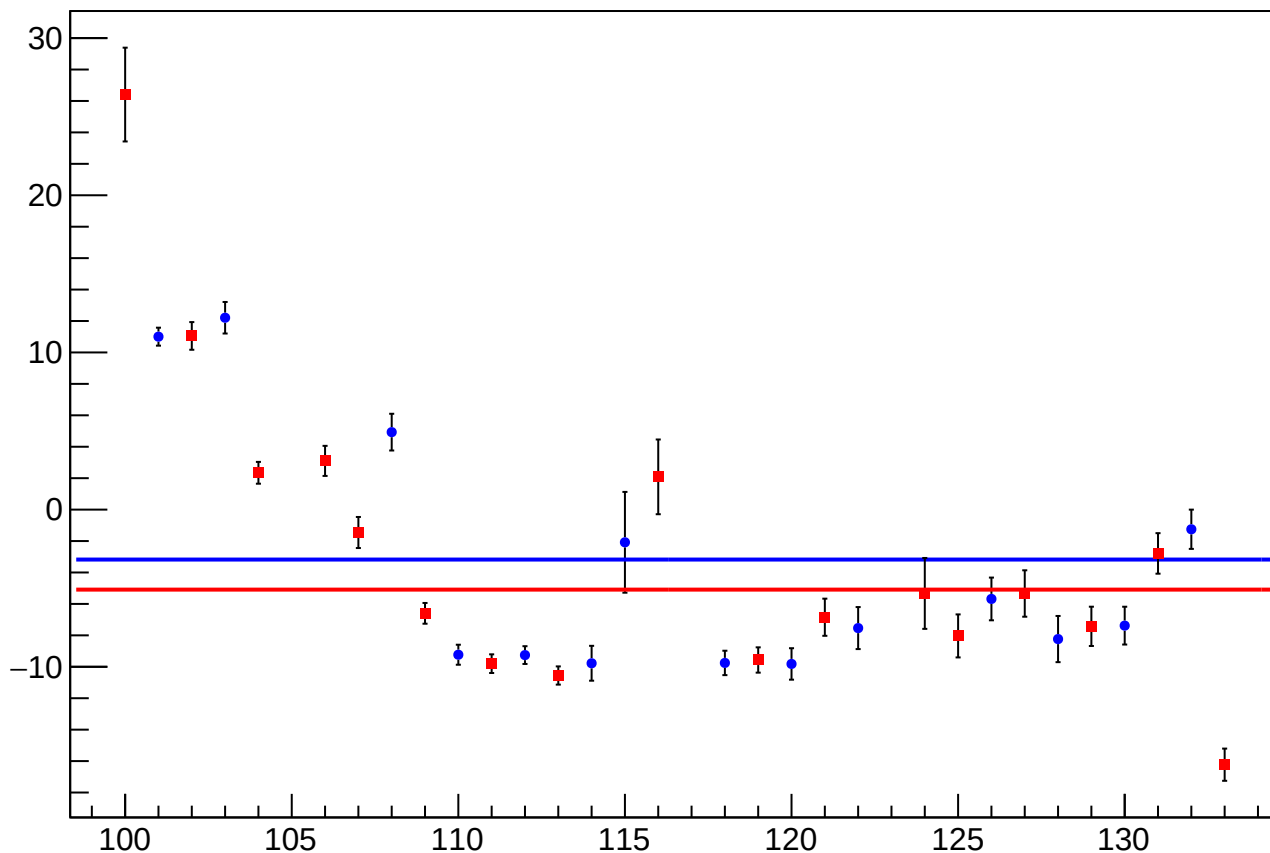
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.833+/-0.132  $\chi^2$ /NDF: 2687.9/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-3.177 \pm 0.244$   $\chi^2/\text{NDF}$ : 1296.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-5.090 \pm 0.226$   $\chi^2/\text{NDF}$ : 978.3/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

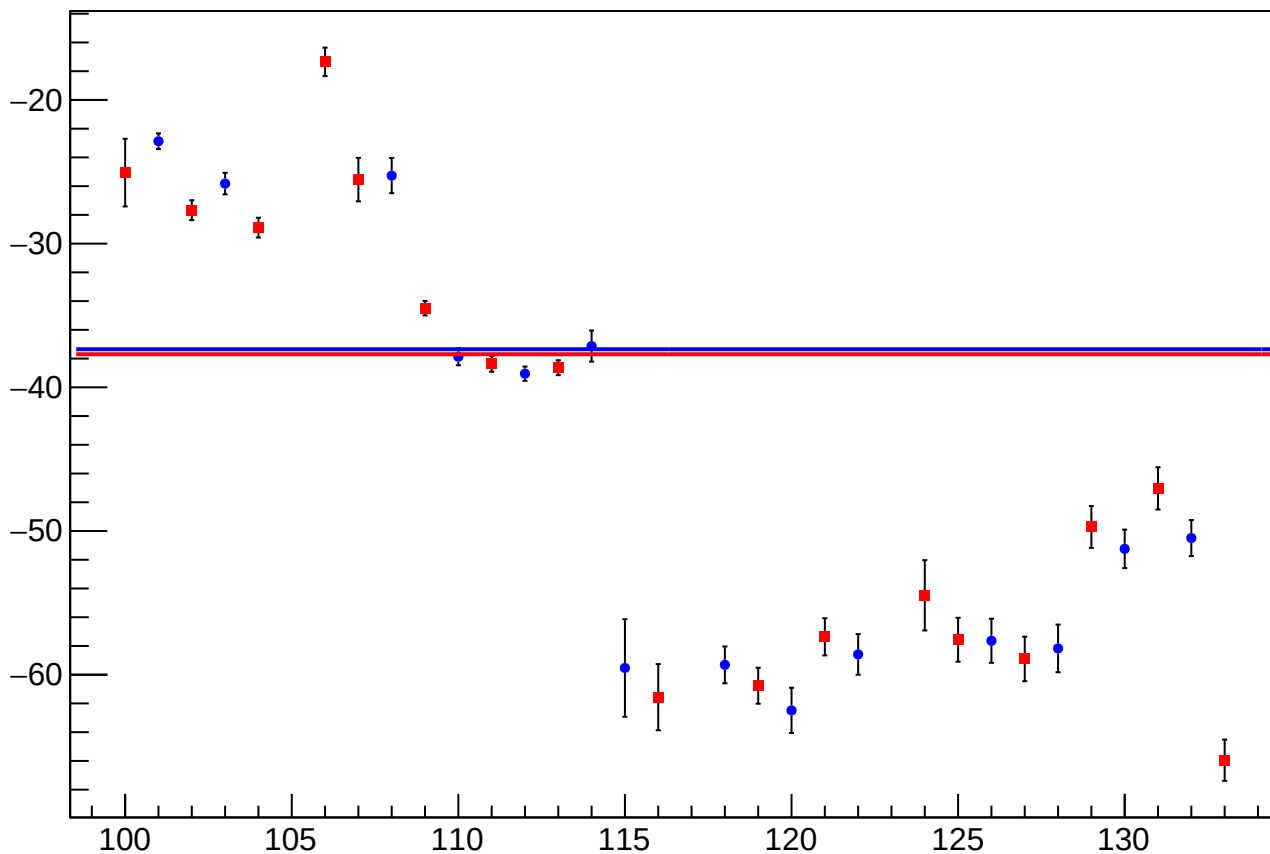
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-4.204 \pm 0.166$   $\chi^2/\text{NDF}$ : 2308.0/30

- 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:  $-37.350 \pm 0.242$   $\chi^2/\text{NDF}$ : 2405.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-37.698 \pm 0.220$   $\chi^2/\text{NDF}$ : 2512.8/16

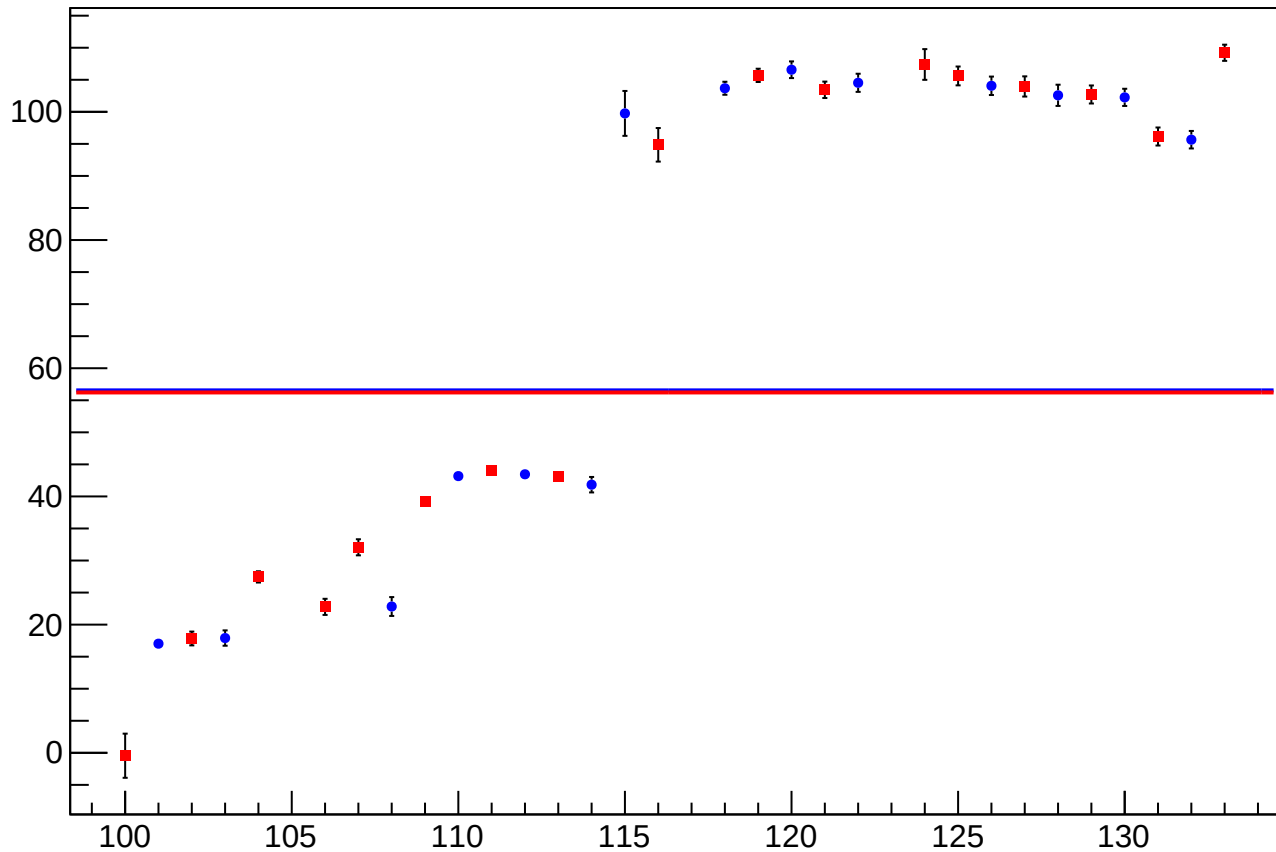
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-37.541 \pm 0.163$   $\chi^2/\text{NDF}$ : 4919.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 56.545 $\pm$ 0.283  $\chi^2$ /NDF: 14261.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 56.222 $\pm$ 0.260  $\chi^2$ /NDF: 15103.3/16

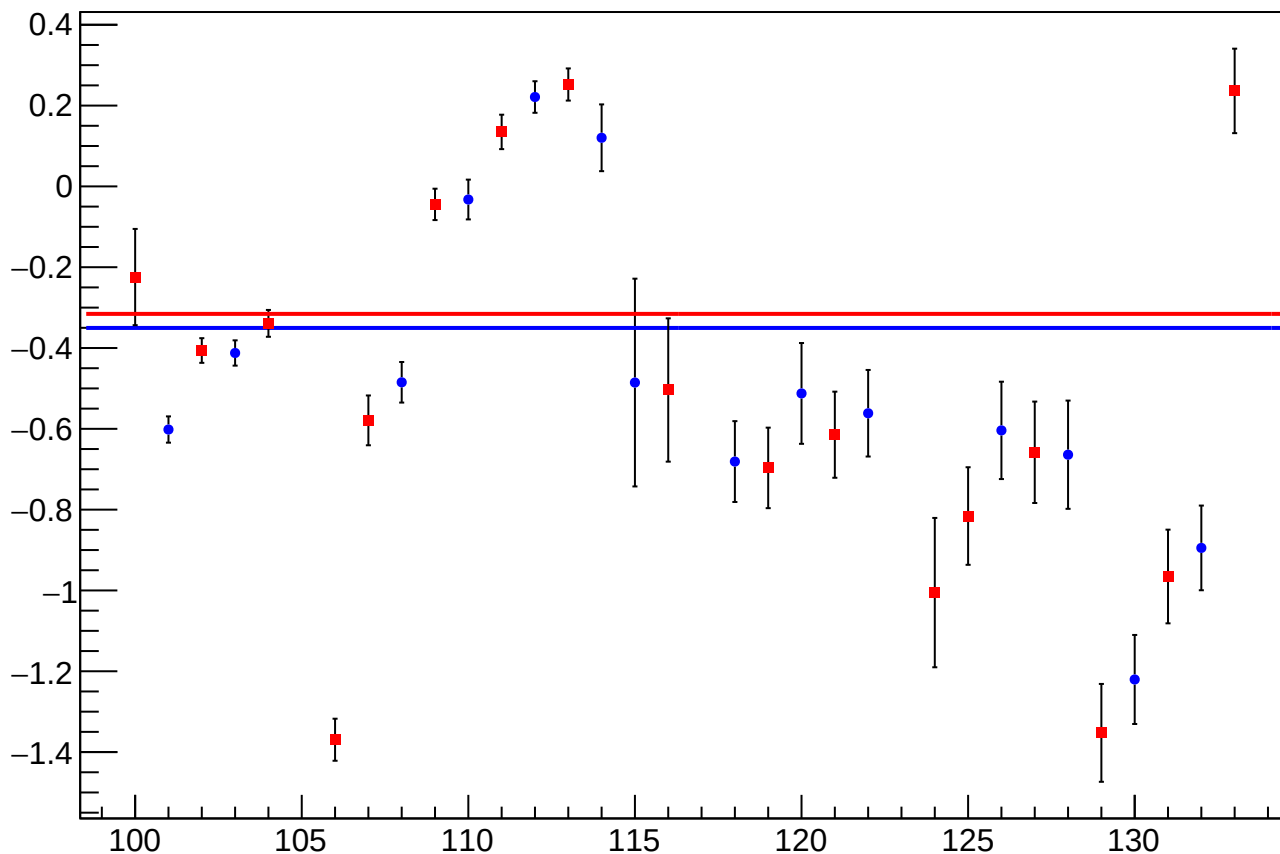
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.369 $\pm$ 0.191  $\chi^2$ /NDF: 29365.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.350+/-0.016  $\chi^2/\text{NDF}$ : 475.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.316+/-0.014  $\chi^2/\text{NDF}$ : 997.3/16

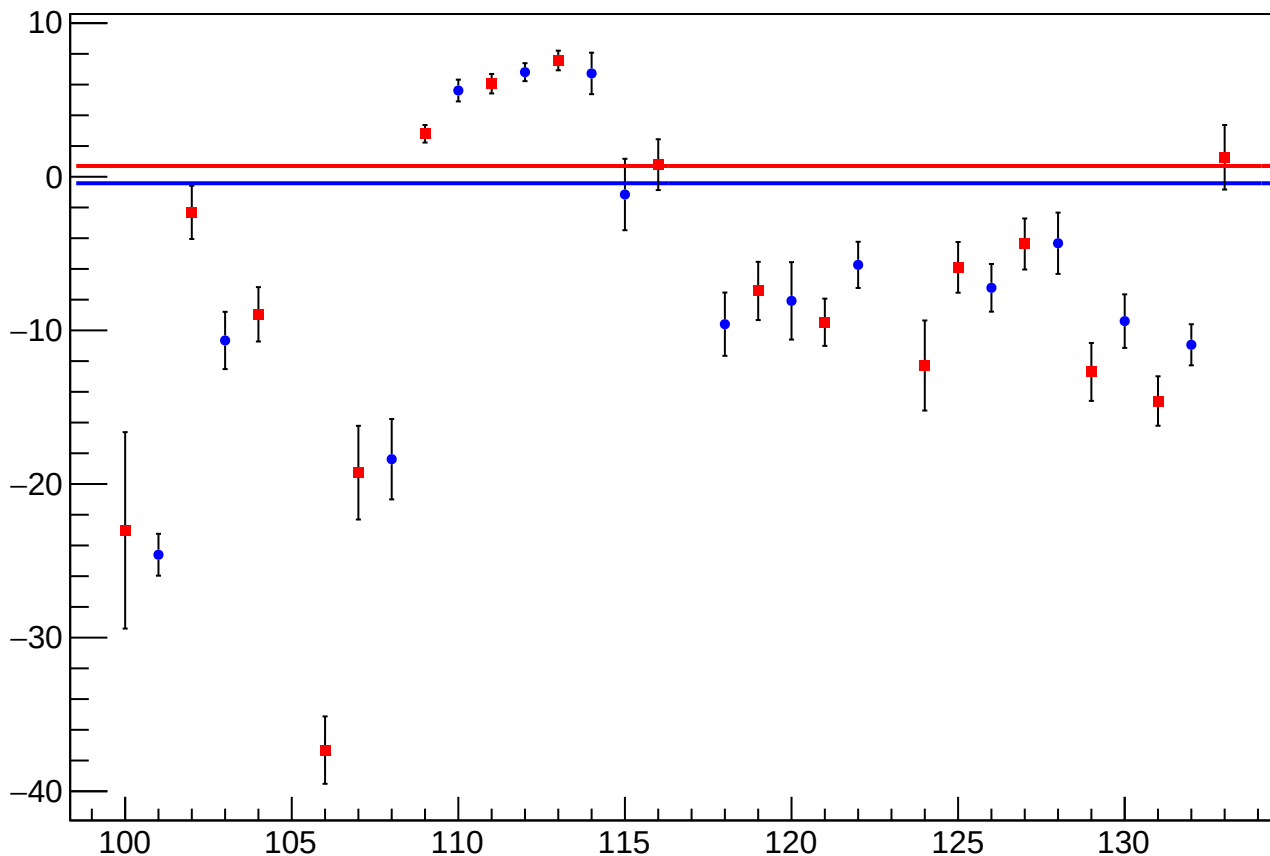
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.331+/-0.010  $\chi^2/\text{NDF}$ : 1475.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -0.422+/-0.333  $\chi^2$ /NDF: 799.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.702+/-0.291  $\chi^2$ /NDF: 838.6/16

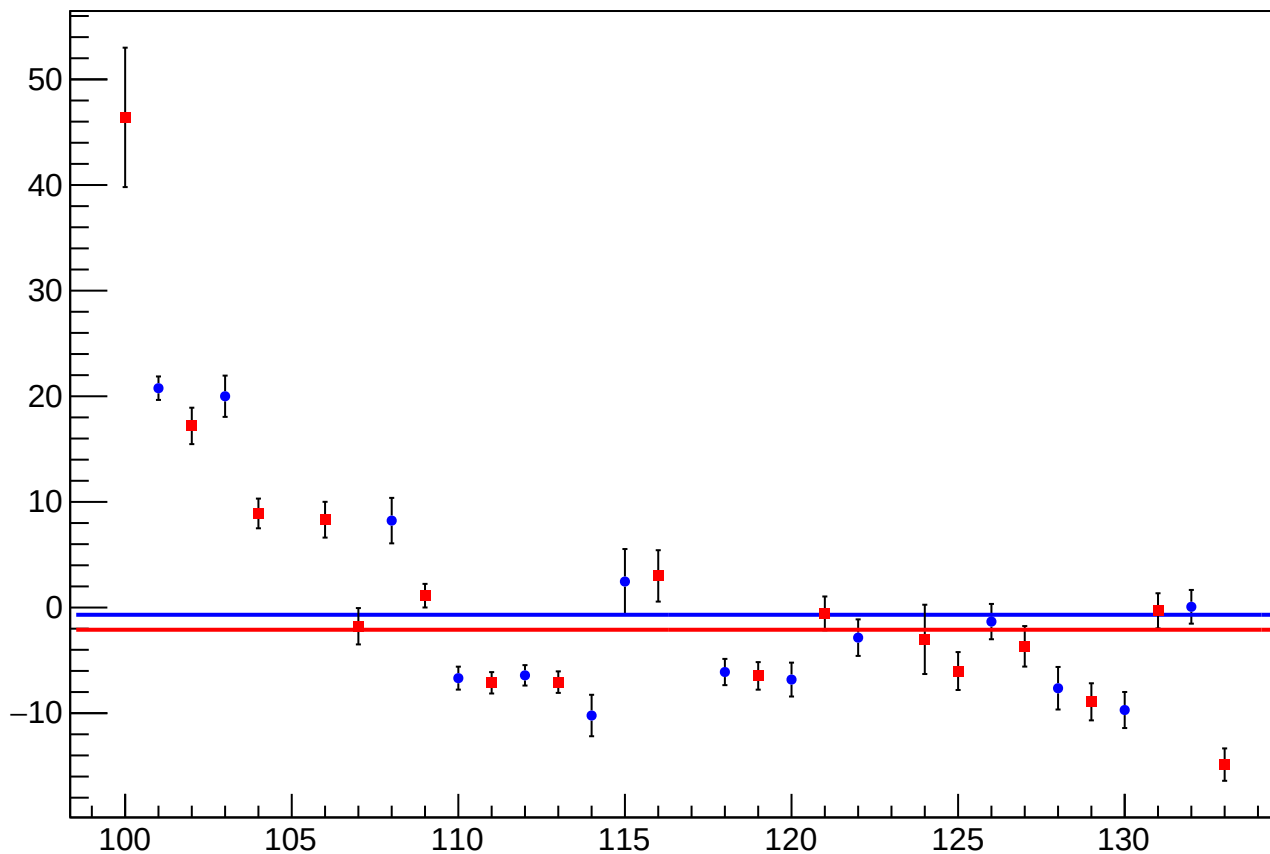
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.215+/-0.219  $\chi^2$ /NDF: 1644.0/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.685 \pm 0.399$   $\chi^2/\text{NDF}$ : 667.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.102 \pm 0.372$   $\chi^2/\text{NDF}$ : 442.9/16

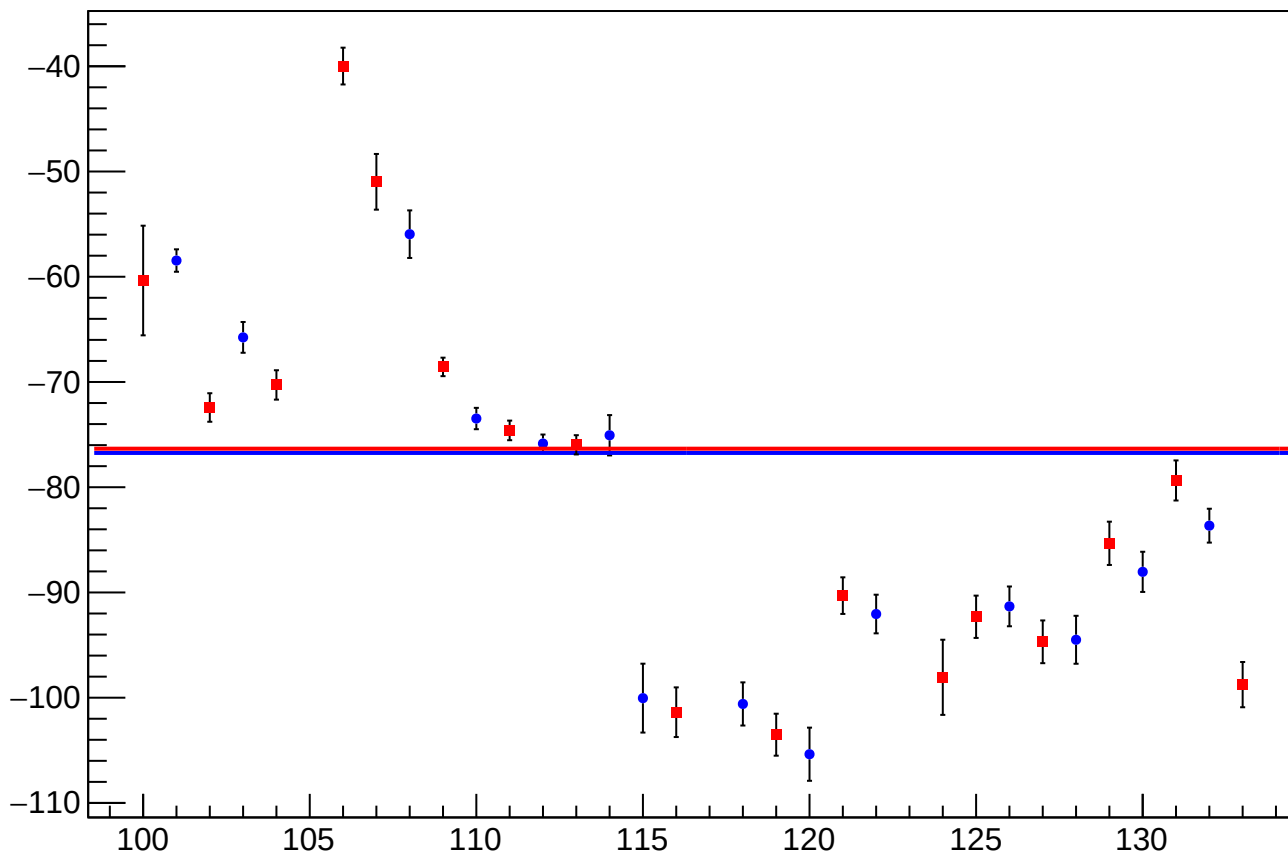
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.443 \pm 0.272$   $\chi^2/\text{NDF}$ : 1117.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -76.743+/-0.406  $\chi^2/\text{NDF}$ : 1004.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -76.338+/-0.371  $\chi^2/\text{NDF}$ : 1317.7/16

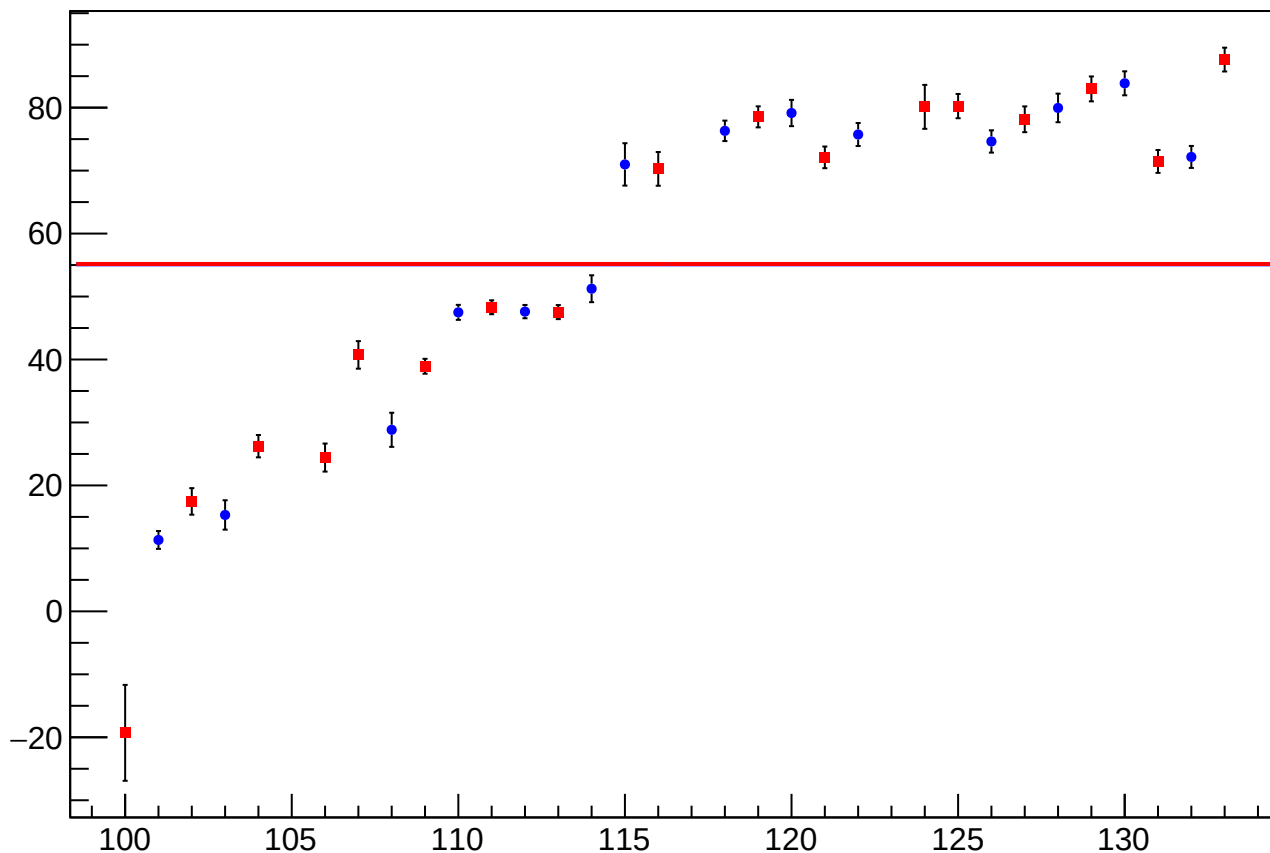
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -76.522+/-0.274  $\chi^2/\text{NDF}$ : 2323.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 55.115 $\pm$ 0.459  $\chi^2$ /NDF: 2450.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 55.171 $\pm$ 0.423  $\chi^2$ /NDF: 2433.9/16

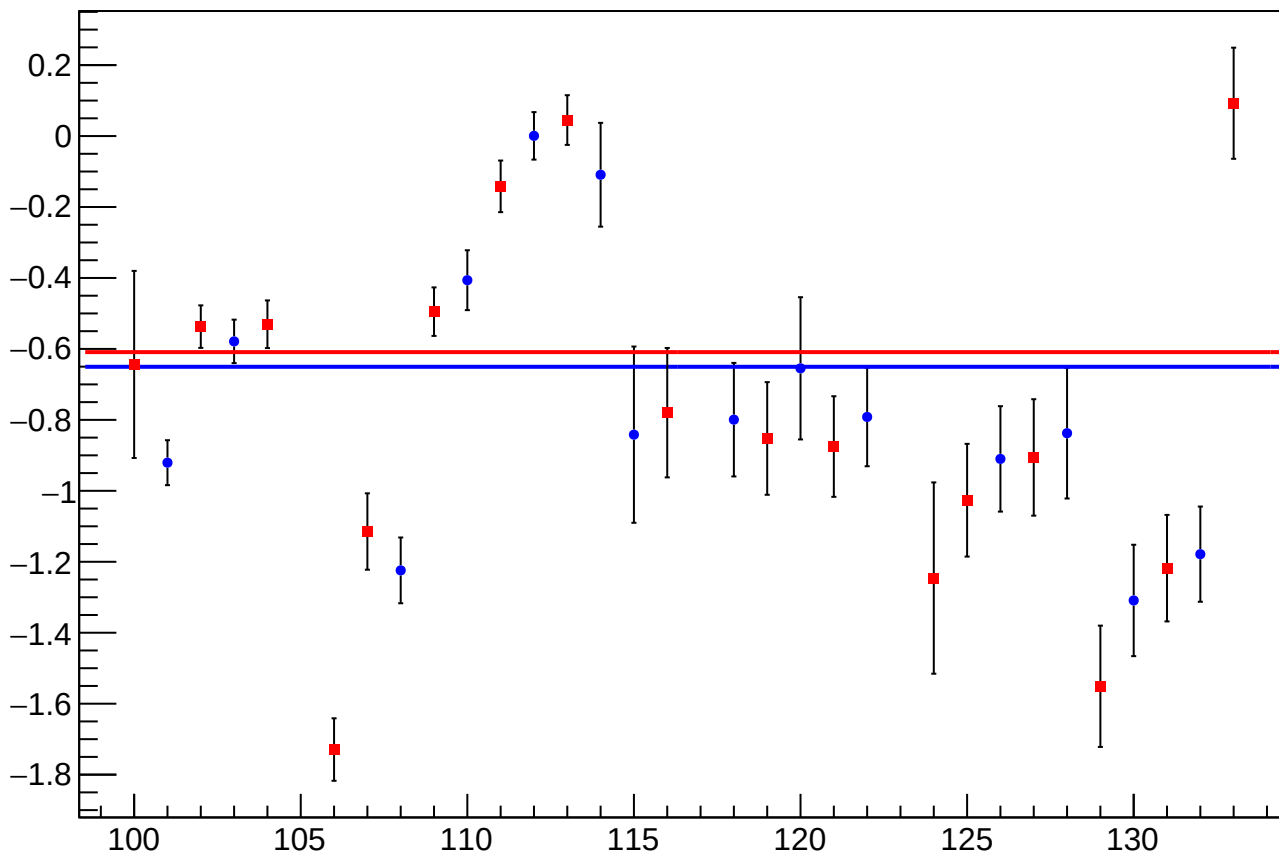
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 55.146 $\pm$ 0.311  $\chi^2$ /NDF: 4884.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.650 \pm 0.027$   $\chi^2/\text{NDF}$ : 214.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.609 \pm 0.024$   $\chi^2/\text{NDF}$ : 407.3/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

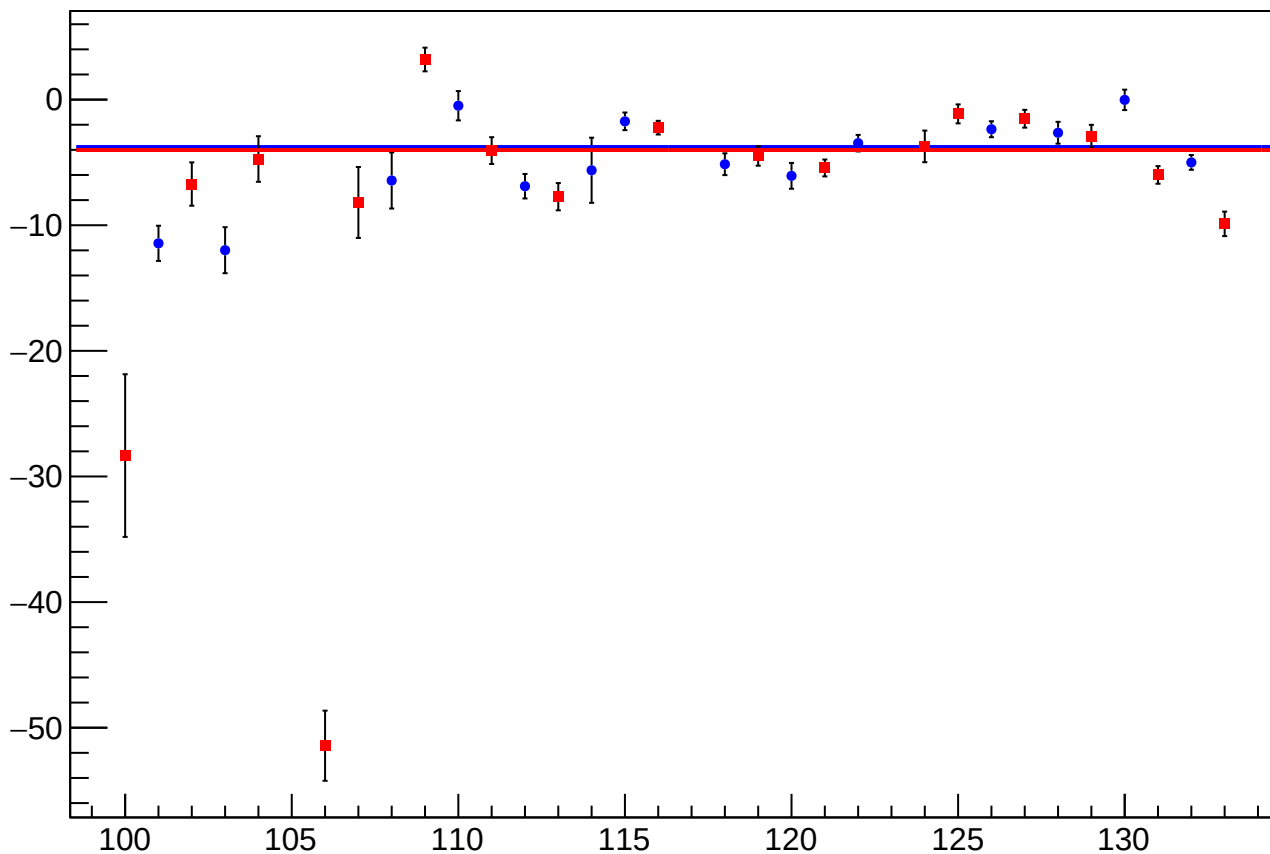
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.627 \pm 0.018$   $\chi^2/\text{NDF}$ : 622.8/30

- 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:  $-3.777 \pm 0.237$   $\chi^2/\text{NDF}$ : 118.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.012 \pm 0.225$   $\chi^2/\text{NDF}$ : 466.0/16

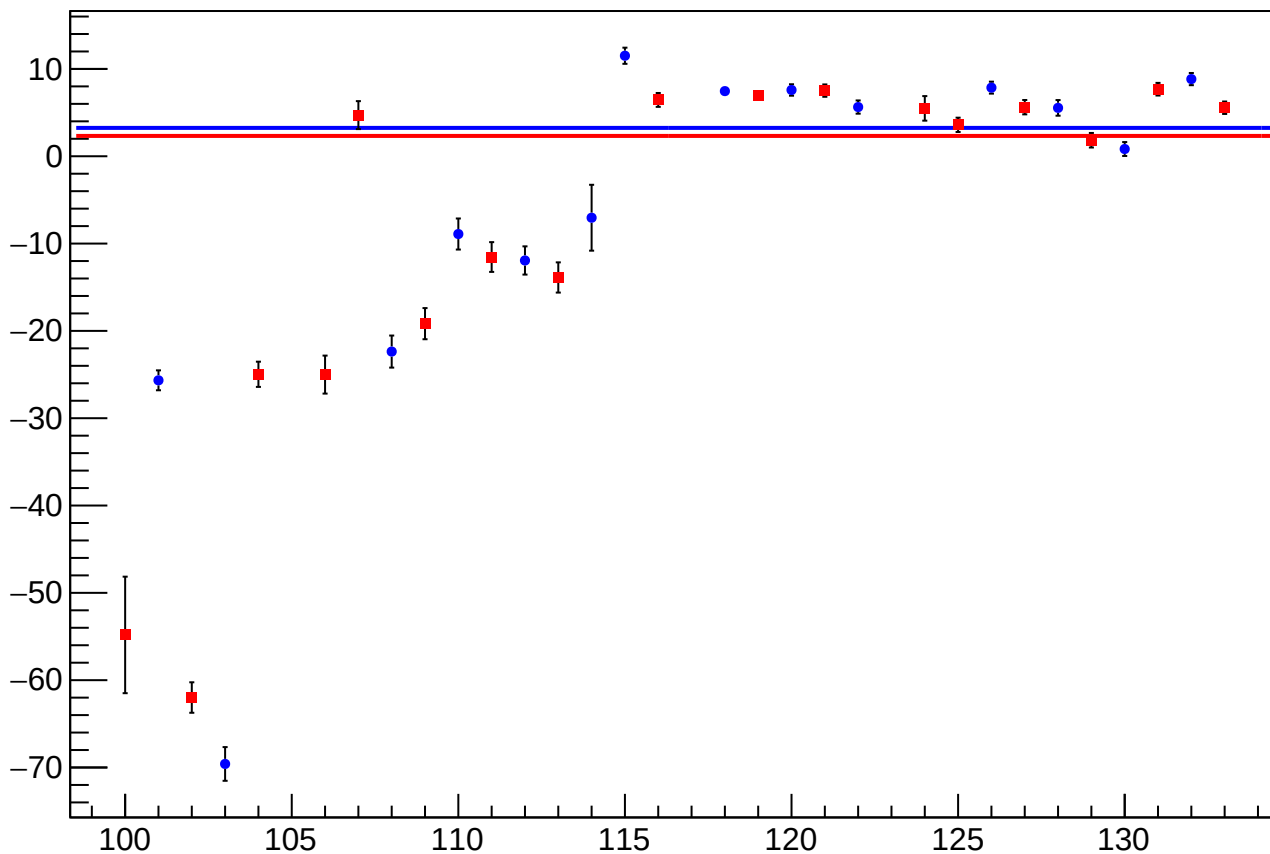
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-3.900 \pm 0.163$   $\chi^2/\text{NDF}$ : 585.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 3.248 $\pm$ 0.236  $\chi^2$ /NDF: 2726.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2.328 $\pm$ 0.234  $\chi^2$ /NDF: 2502.7/16

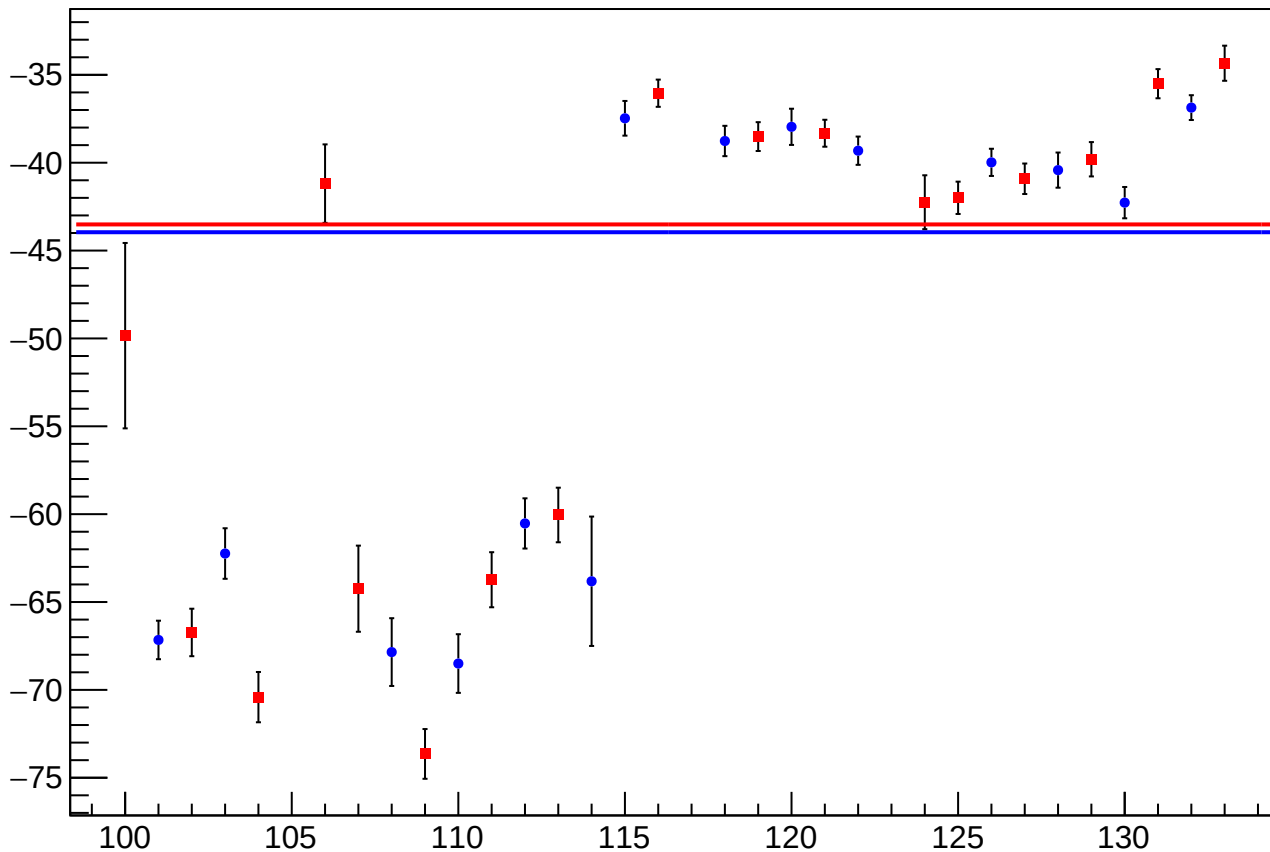
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.785 $\pm$ 0.166  $\chi^2$ /NDF: 5237.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_1526\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-43.956 \pm 0.274$   $\chi^2/\text{NDF}: 1433.0/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-43.512 \pm 0.267$   $\chi^2/\text{NDF}: 1835.5/16$

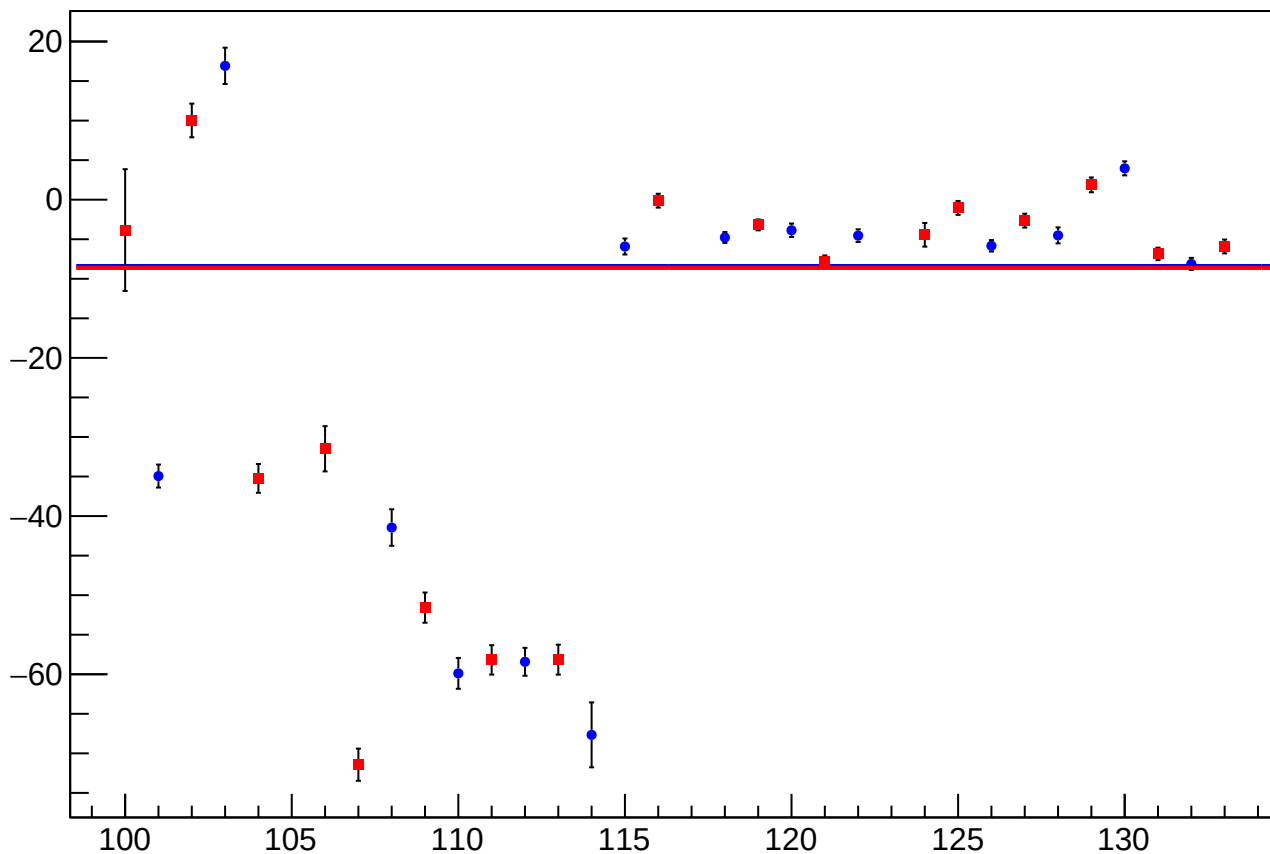
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-43.728 \pm 0.191$   $\chi^2/\text{NDF}: 3269.8/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-8.382 \pm 0.273$   $\chi^2/\text{NDF}$ : 2674.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-8.630 \pm 0.268$   $\chi^2/\text{NDF}$ : 3633.8/16

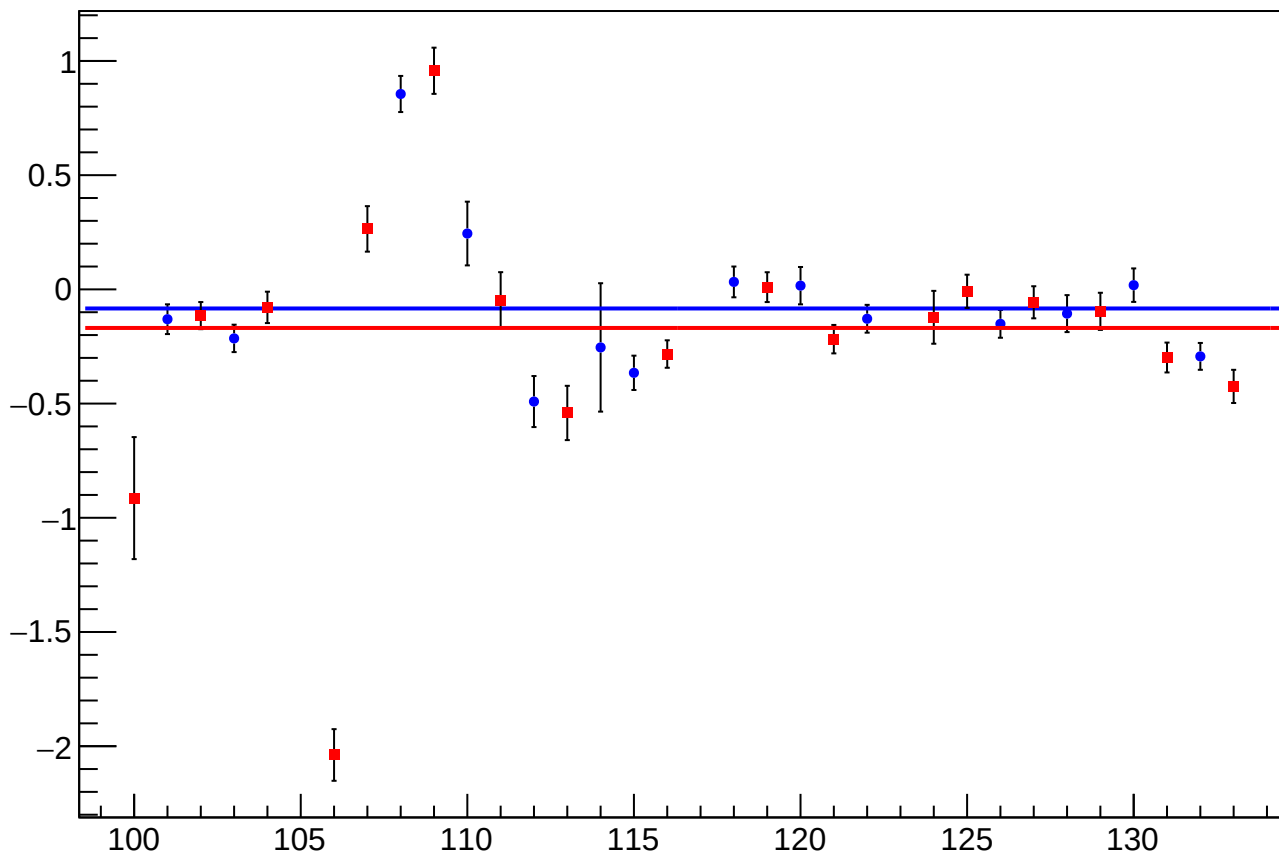
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-8.509 \pm 0.191$   $\chi^2/\text{NDF}$ : 6308.4/30

- 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:  $-0.084 \pm 0.020$   $\chi^2/\text{NDF}$ : 200.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.169 \pm 0.019$   $\chi^2/\text{NDF}$ : 473.9/16

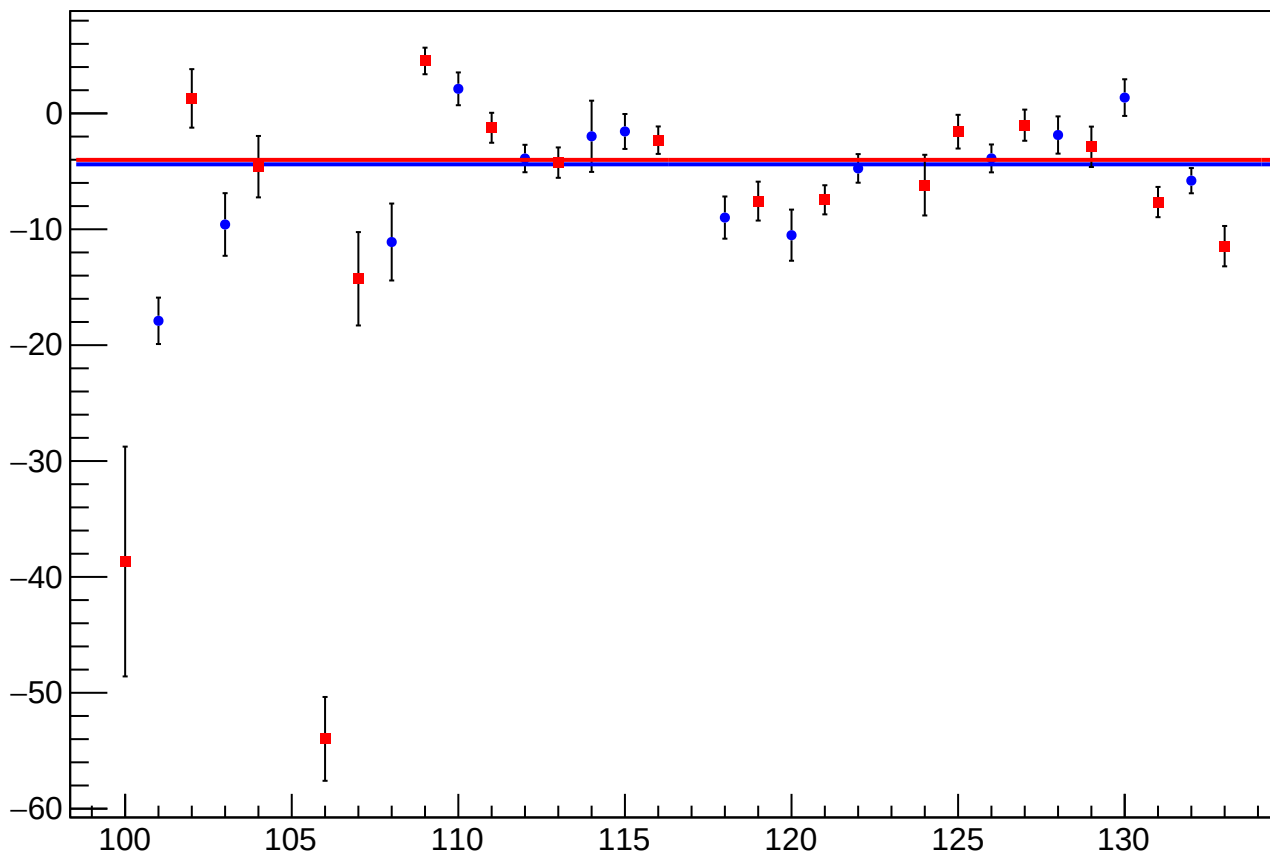
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.128 \pm 0.014$   $\chi^2/\text{NDF}$ : 684.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -4.396+/-0.418  $\chi^2/\text{NDF}$ : 110.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.011+/-0.392  $\chi^2/\text{NDF}$ : 323.0/16

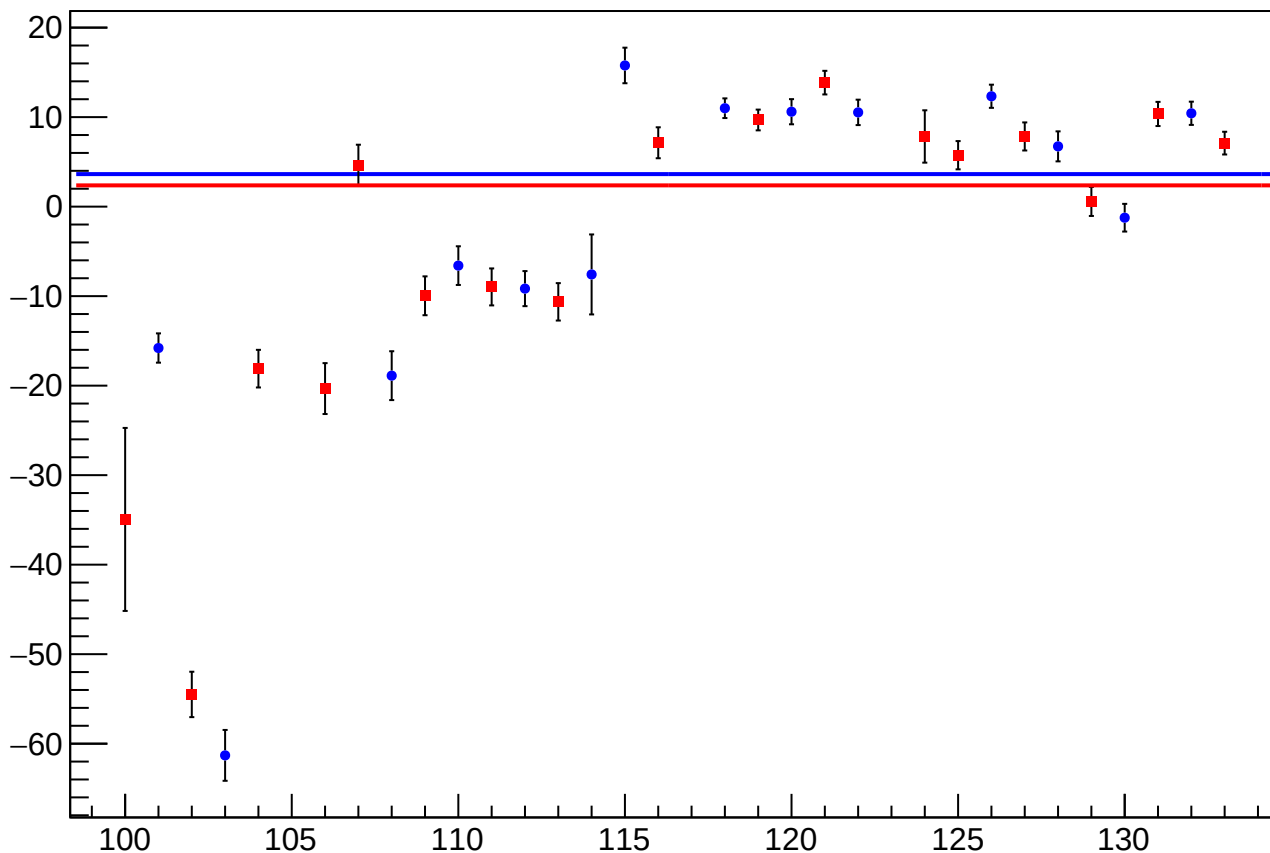
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.191+/-0.286  $\chi^2/\text{NDF}$ : 434.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 3.634+/-0.438  $\chi^2/\text{NDF}$ : 1019.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.375+/-0.426  $\chi^2/\text{NDF}$ : 970.2/16

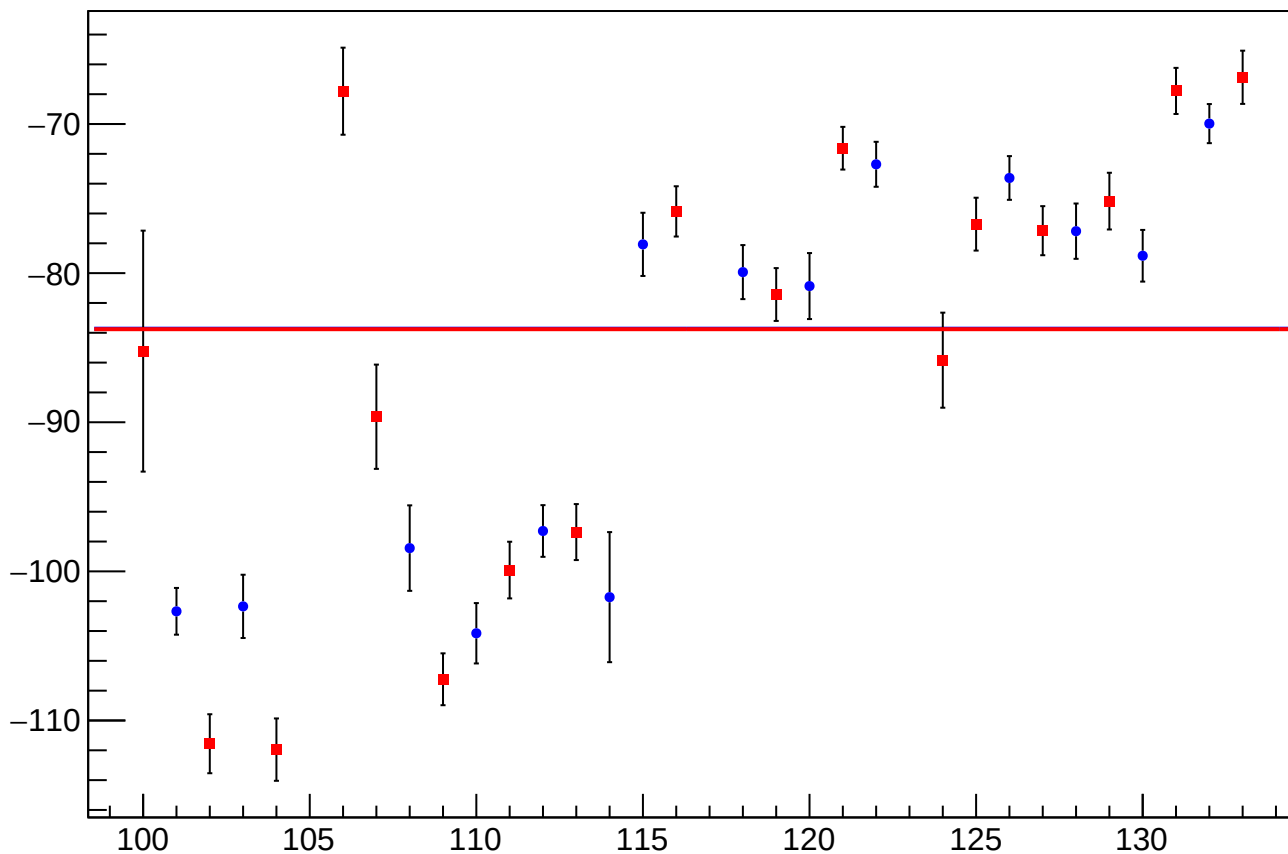
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.987+/-0.305  $\chi^2/\text{NDF}$ : 1993.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -83.726 $\pm$ 0.487  $\chi^2$ /NDF: 674.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -83.759 $\pm$ 0.469  $\chi^2$ /NDF: 1063.8/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

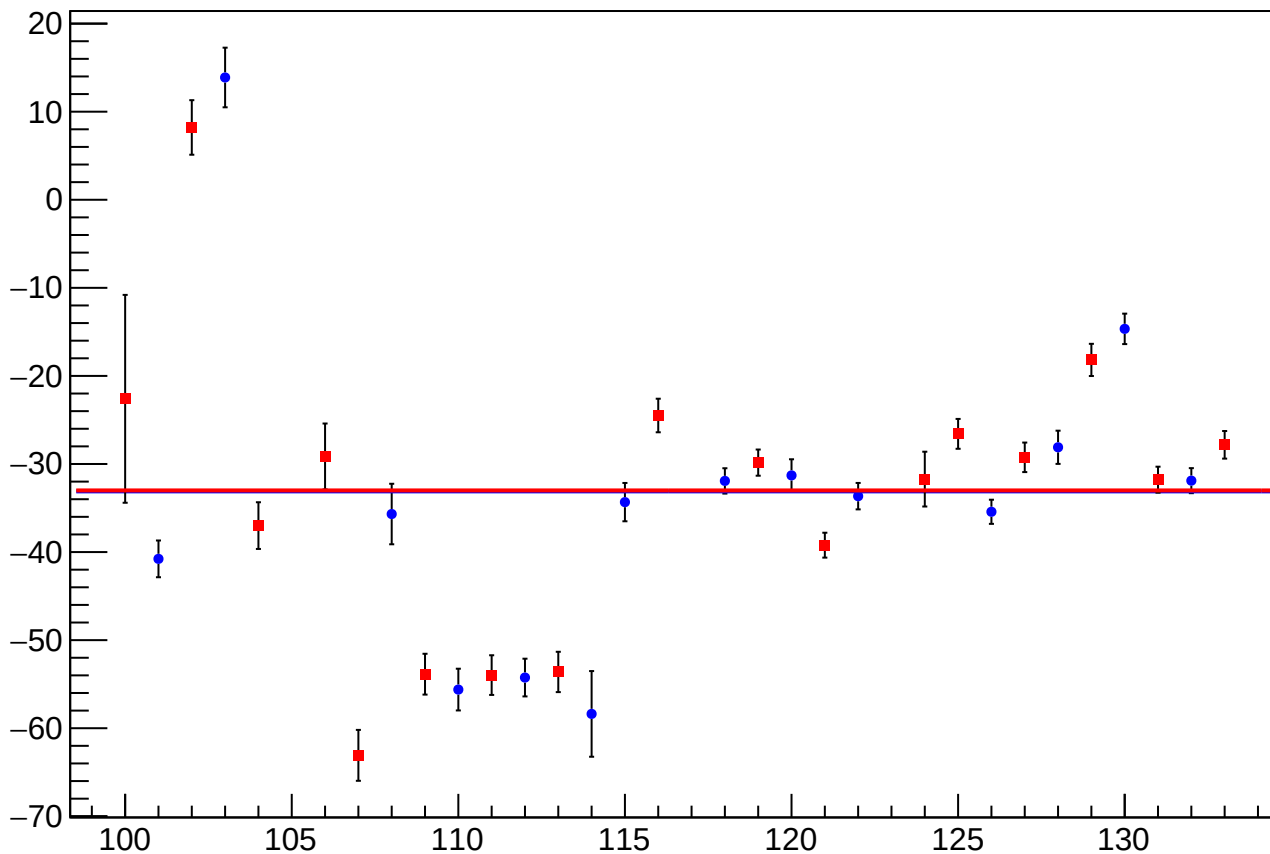
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -83.743 $\pm$ 0.338  $\chi^2$ /NDF: 1738.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_3726\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -33.109 $\pm$ 0.505  $\chi^2$ /NDF: 548.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -33.002 $\pm$ 0.487  $\chi^2$ /NDF: 679.0/16

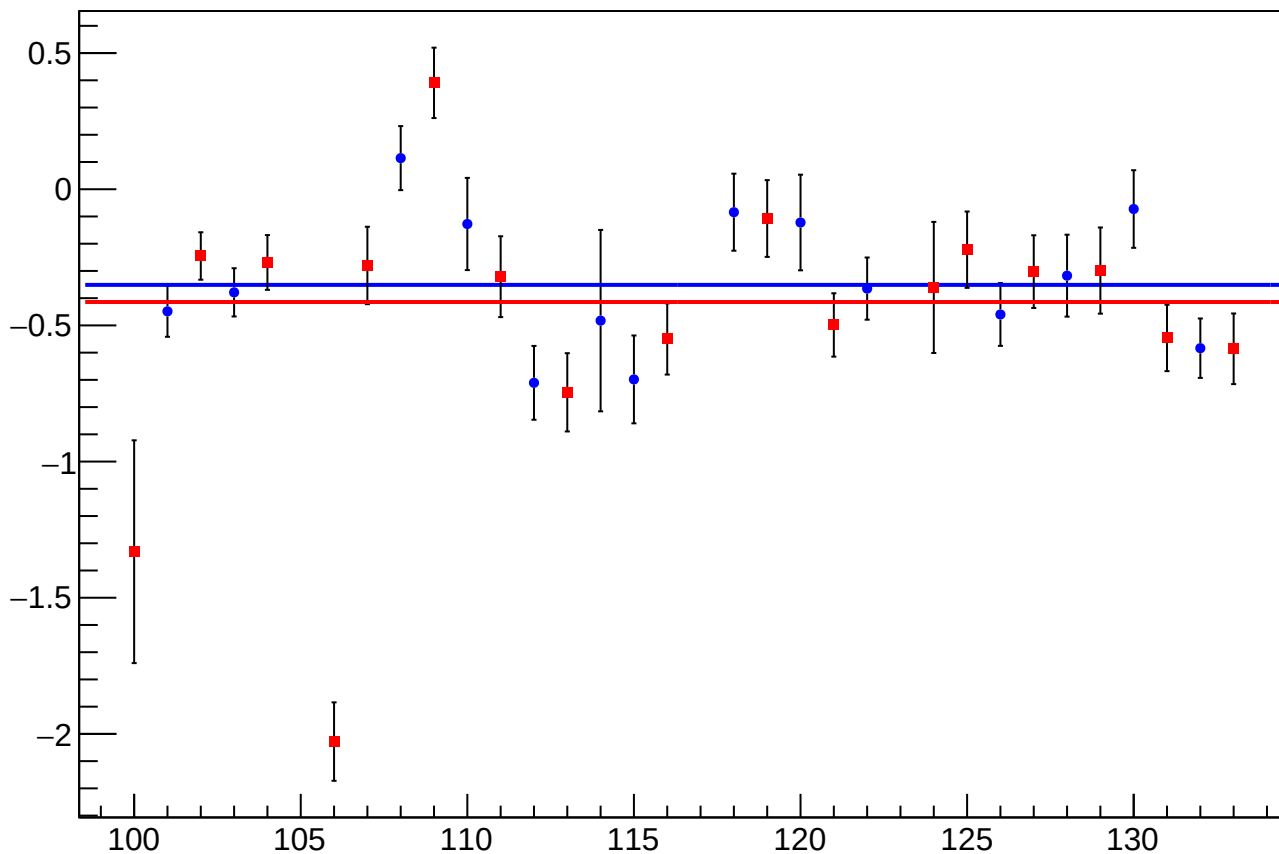
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -33.053 $\pm$ 0.350  $\chi^2$ /NDF: 1227.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.351 \pm 0.034$   $\chi^2/\text{NDF}$ : 45.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.414 \pm 0.032$   $\chi^2/\text{NDF}$ : 194.3/16

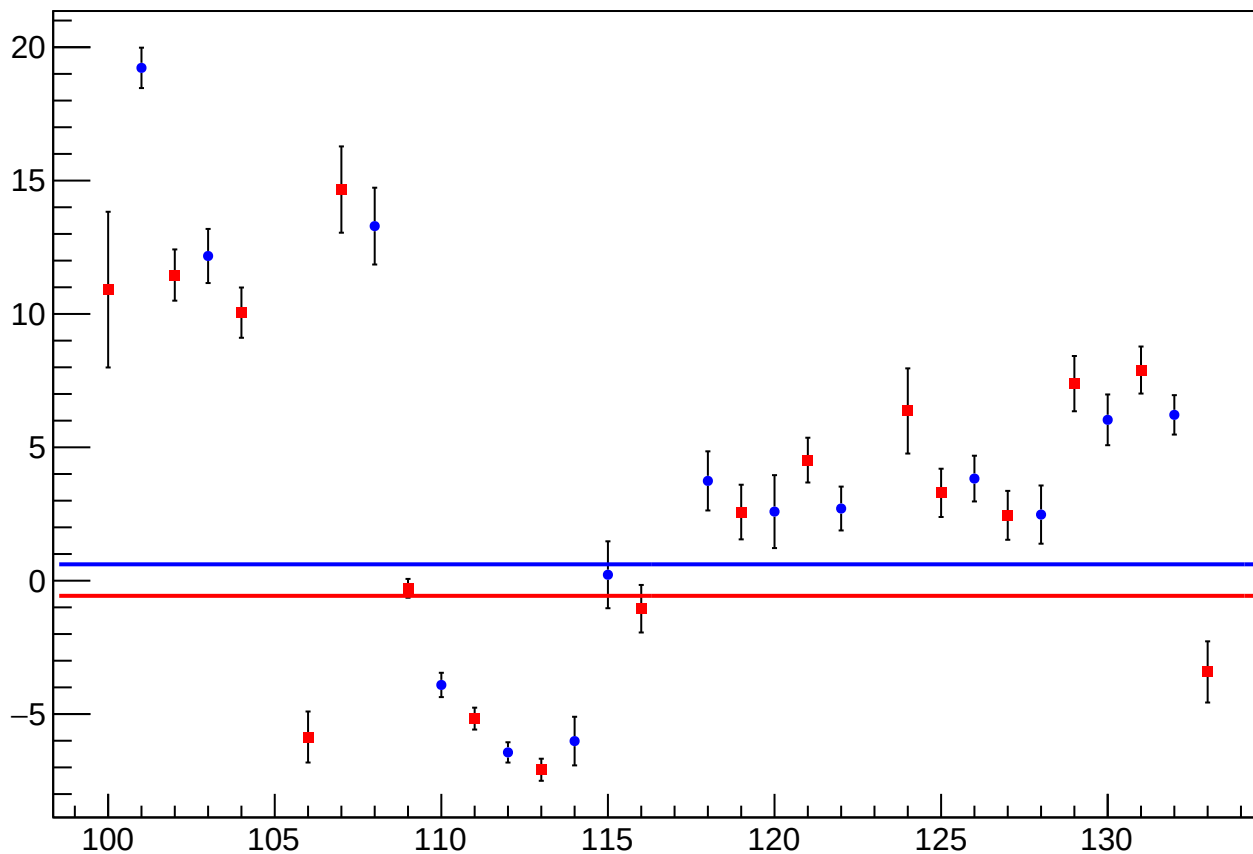
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.384 \pm 0.023$   $\chi^2/\text{NDF}$ : 241.1/30

- 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: 0.614 $\pm$ 0.201  $\chi^2$ /NDF: 1429.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.568 $\pm$ 0.174  $\chi^2$ /NDF: 1044.8/16

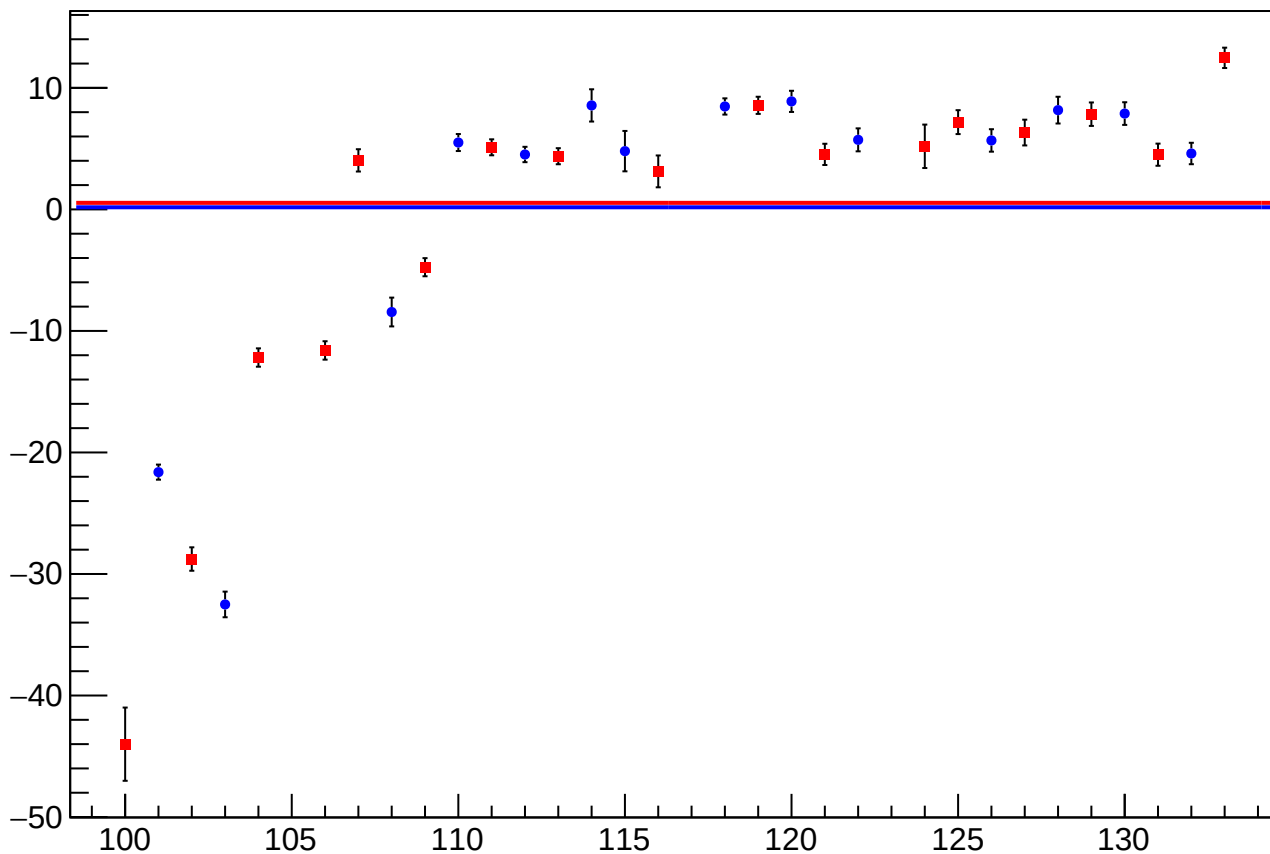
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.062 $\pm$ 0.132  $\chi^2$ /NDF: 2494.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.174+/-0.231  $\chi^2/\text{NDF}$ : 2869.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.539+/-0.213  $\chi^2/\text{NDF}$ : 2346.4/16

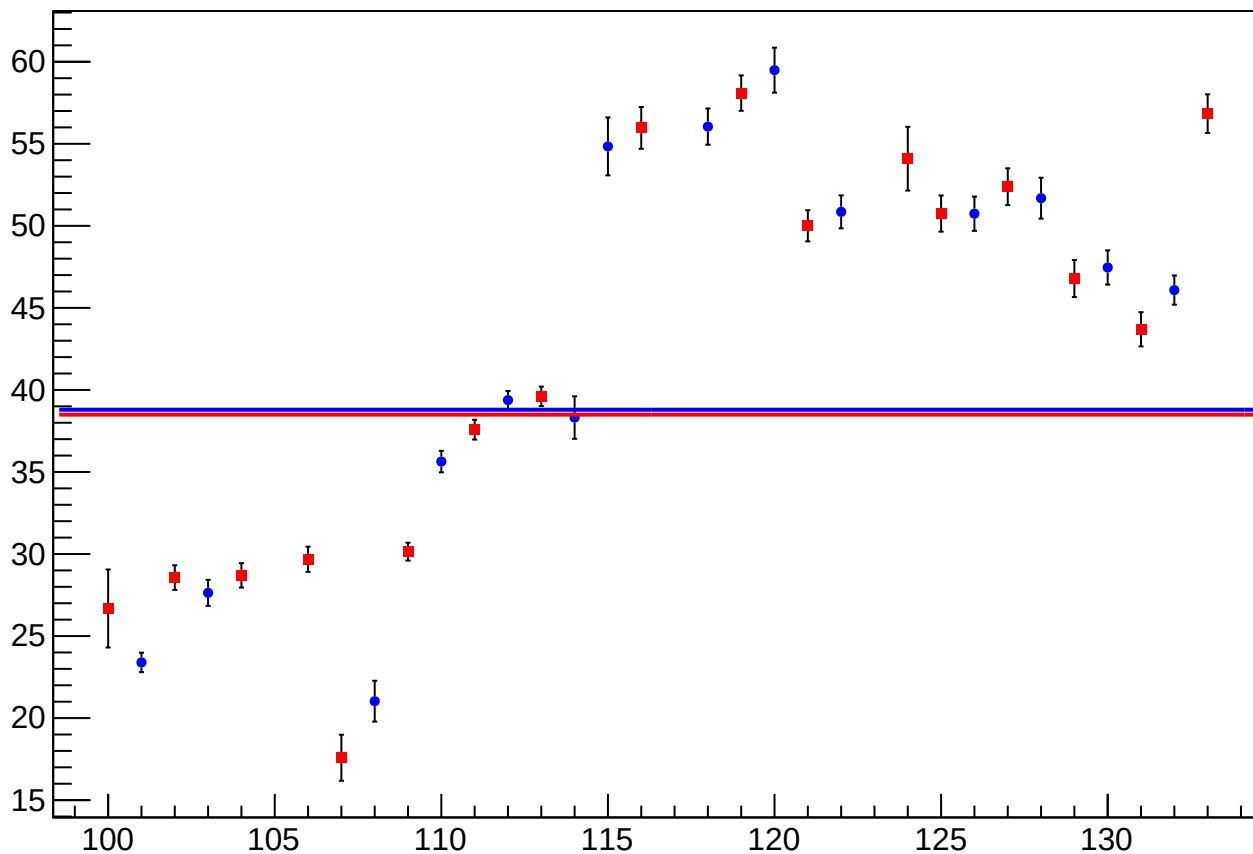
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.371+/-0.156  $\chi^2/\text{NDF}$ : 5217.2/30

- 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: 38.794 $\pm$ 0.238  $\chi^2$ /NDF: 2173.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 38.495 $\pm$ 0.214  $\chi^2$ /NDF: 2295.3/16

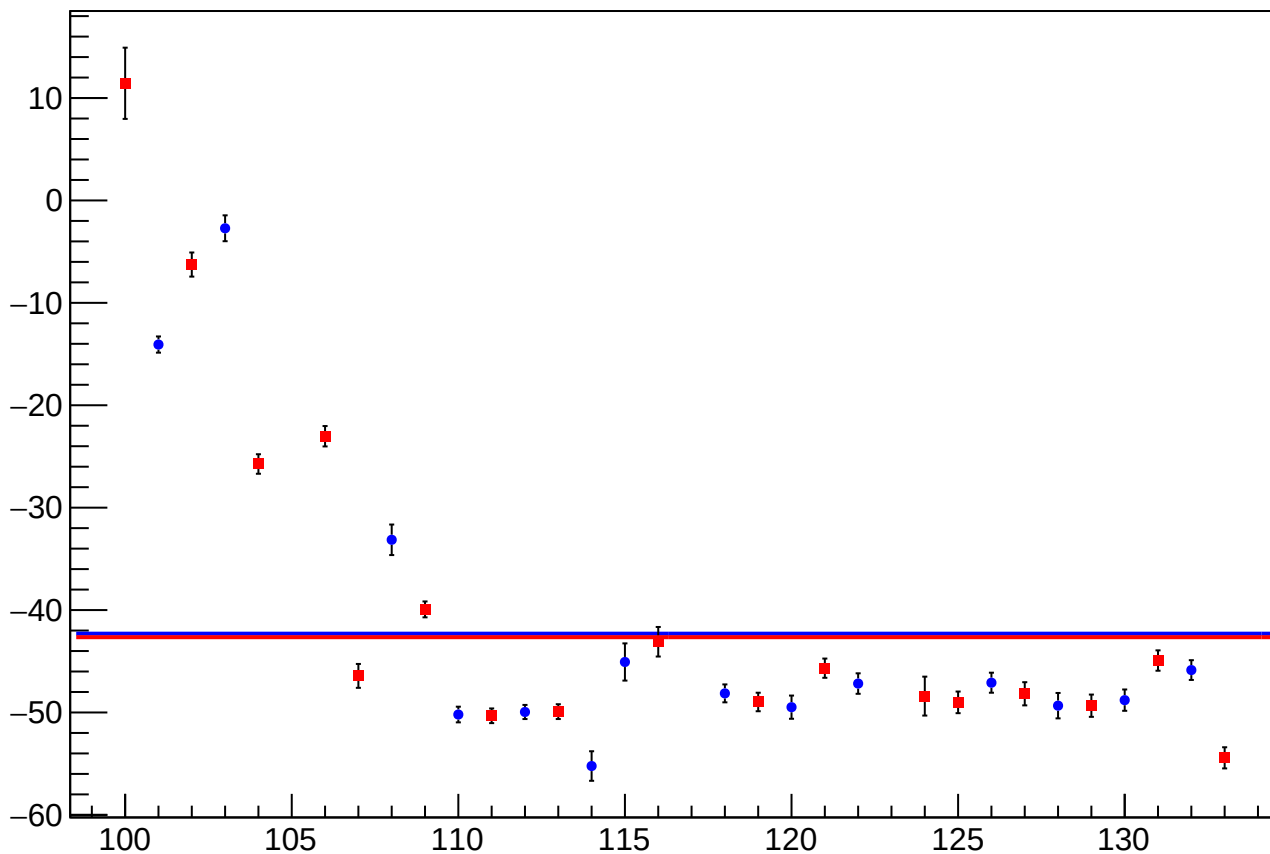
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 38.629 $\pm$ 0.159  $\chi^2$ /NDF: 4469.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -42.305 $\pm$ 0.267  $\chi^2$ /NDF: 2822.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -42.650 $\pm$ 0.244  $\chi^2$ /NDF: 2441.4/16

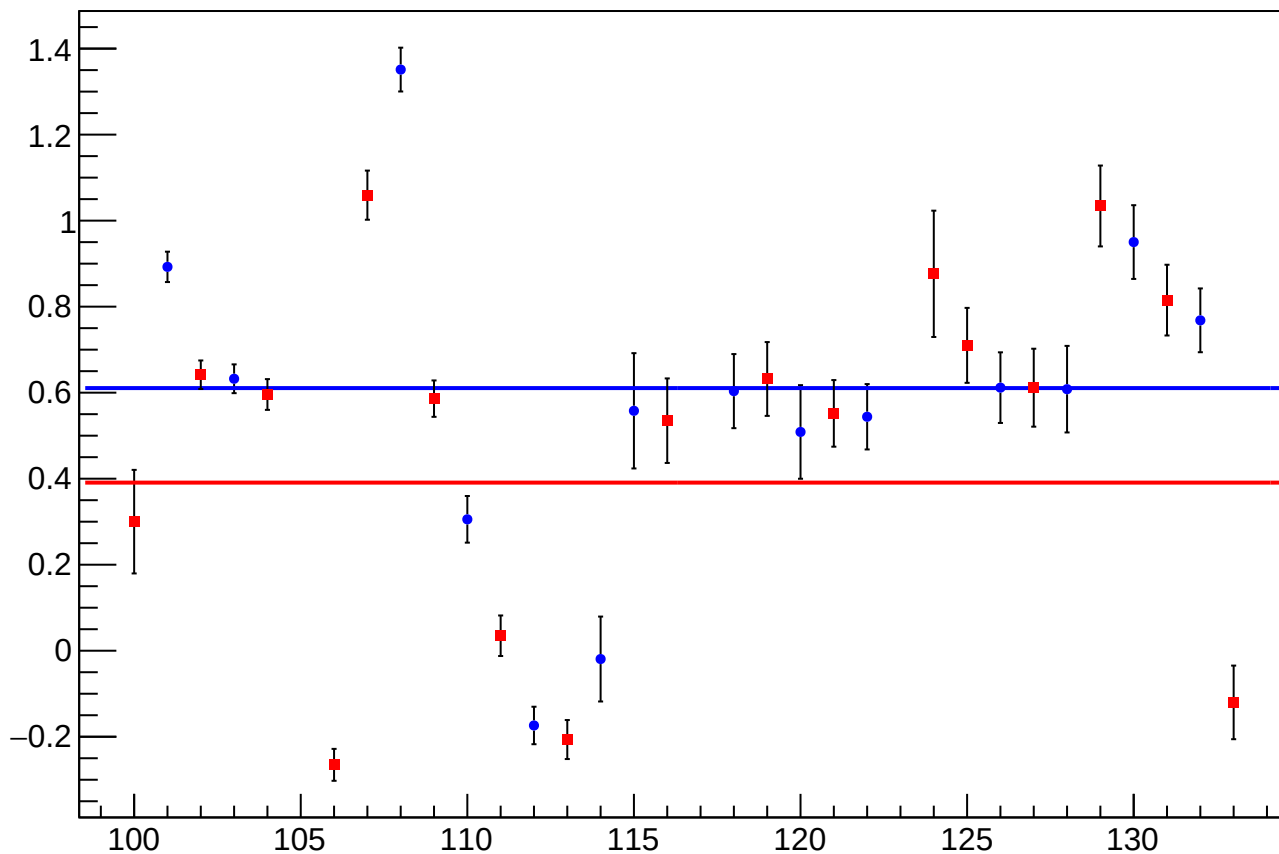
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -42.493 $\pm$ 0.180  $\chi^2$ /NDF: 5264.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.611 $\pm$ 0.016  $\chi^2$ /NDF: 693.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.391 $\pm$ 0.014  $\chi^2$ /NDF: 945.7/16

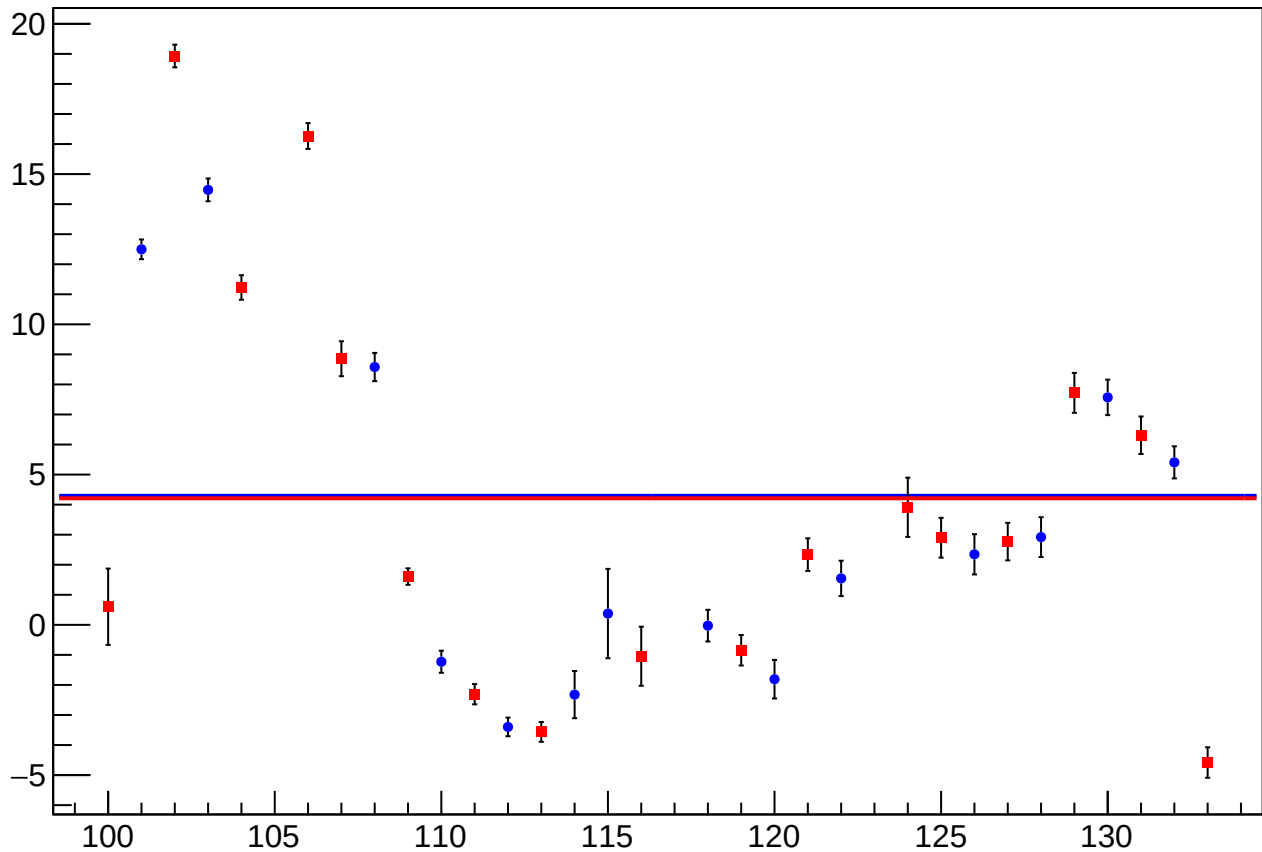
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.485 $\pm$ 0.010  $\chi^2$ /NDF: 1751.5/30

- 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: 4.293+/-0.129  $\chi^2/\text{NDF}$ : 2570.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.211+/-0.115  $\chi^2/\text{NDF}$ : 4183.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

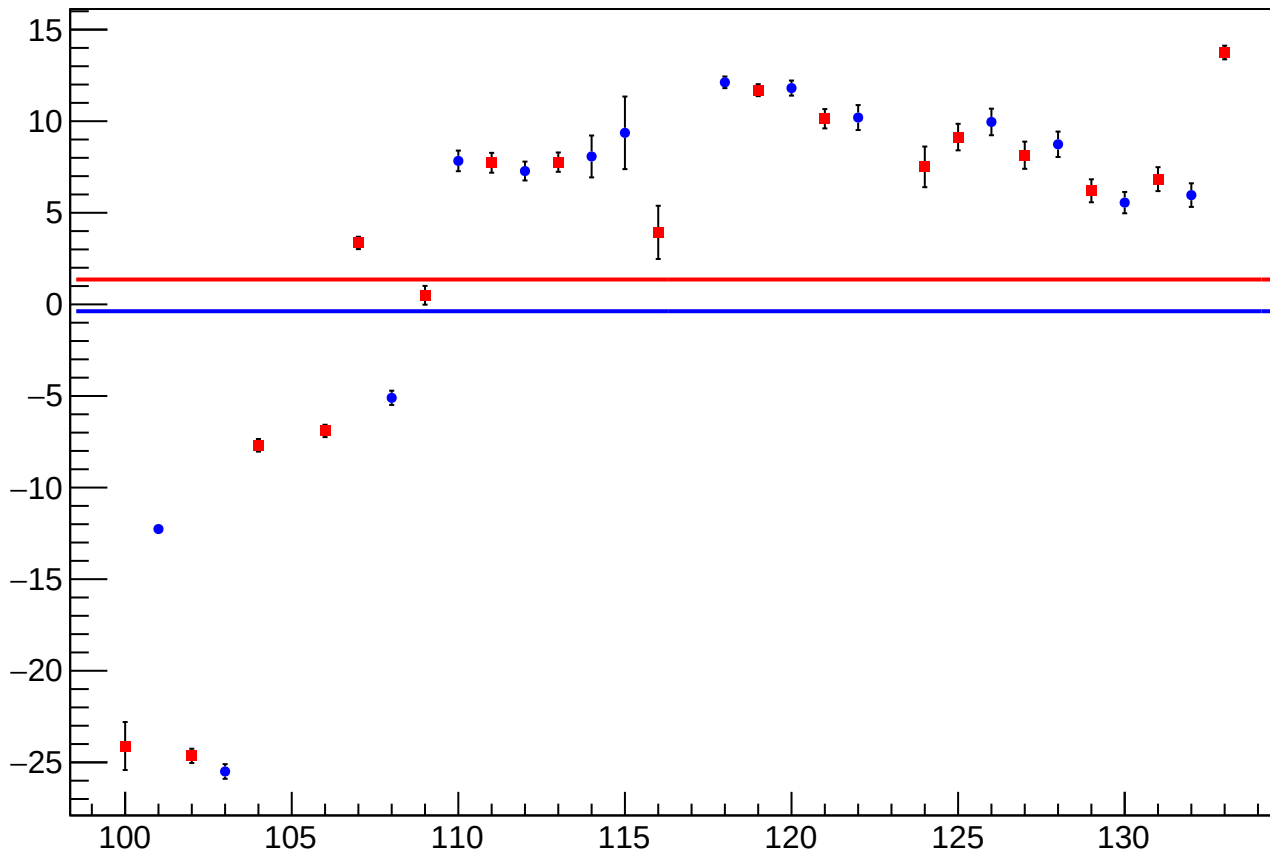
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.247+/-0.086  $\chi^2/\text{NDF}$ : 6753.8/30

- 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: -0.374+/-0.127  $\chi^2$ /NDF: 9815.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.358+/-0.116  $\chi^2$ /NDF: 9192.4/16

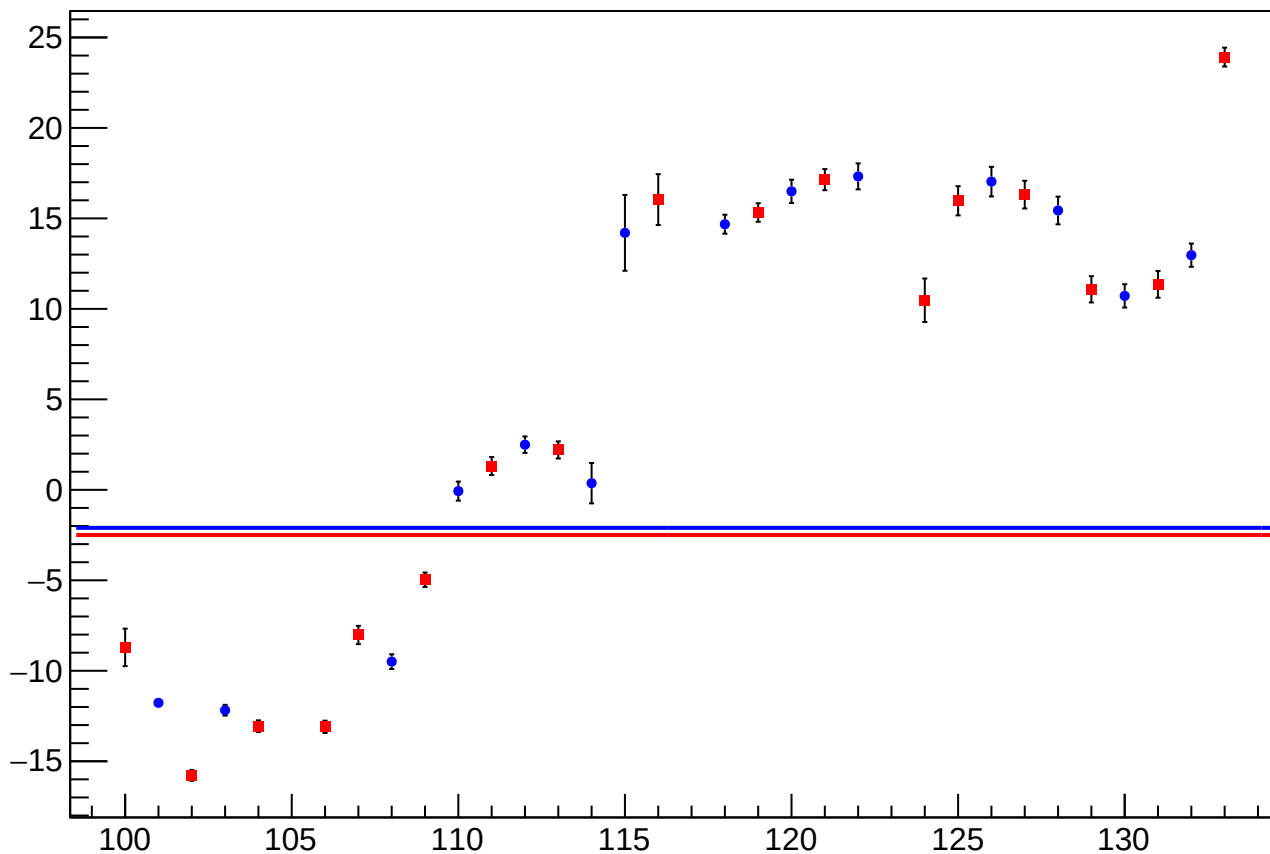
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.569+/-0.086  $\chi^2$ /NDF: 19109.2/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -2.100+/-0.131  $\chi^2/\text{NDF}$ : 7680.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.495+/-0.121  $\chi^2/\text{NDF}$ : 11470.1/16

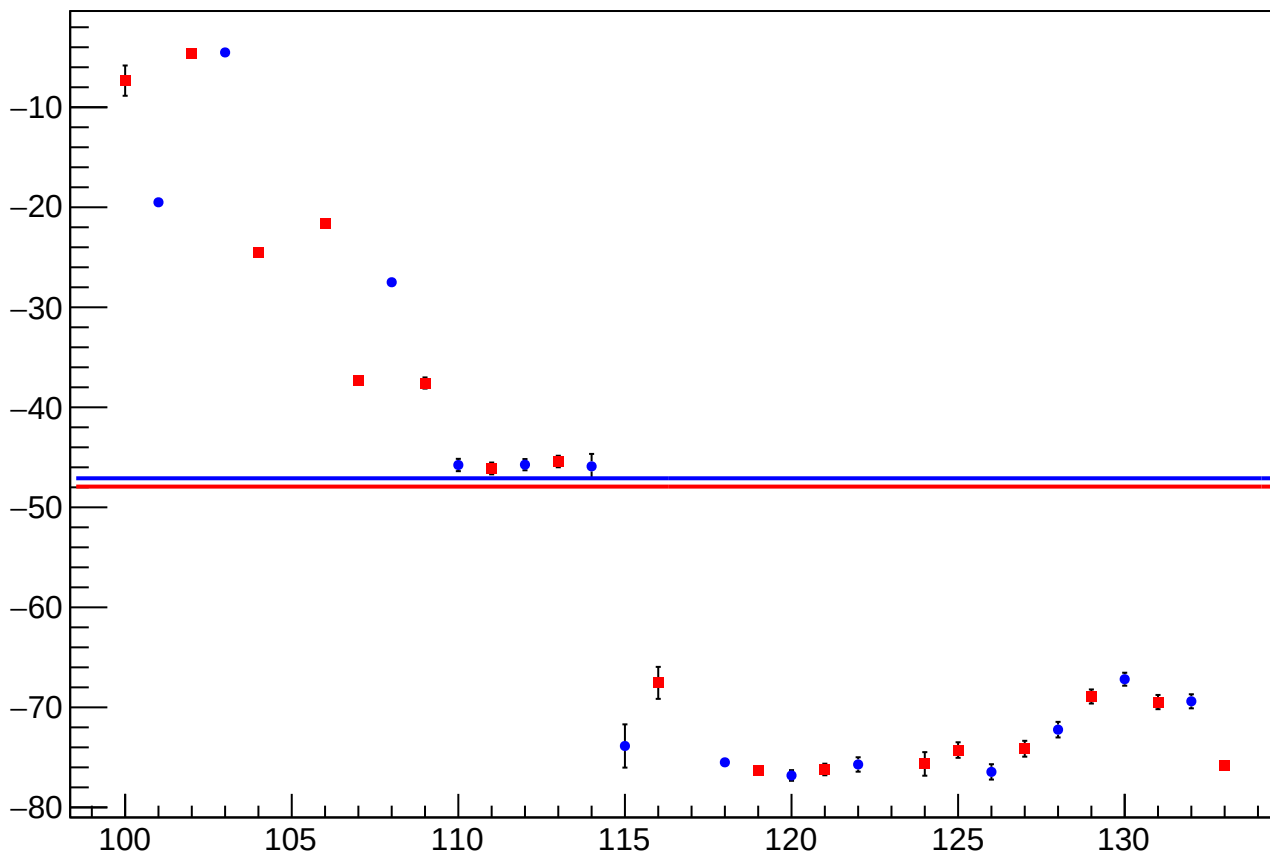
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.313+/-0.089  $\chi^2/\text{NDF}$ : 19155.4/30

- 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: -47.096+/-0.153  $\chi^2/\text{NDF}$ : 30100.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -47.927+/-0.139  $\chi^2/\text{NDF}$ : 32028.4/16

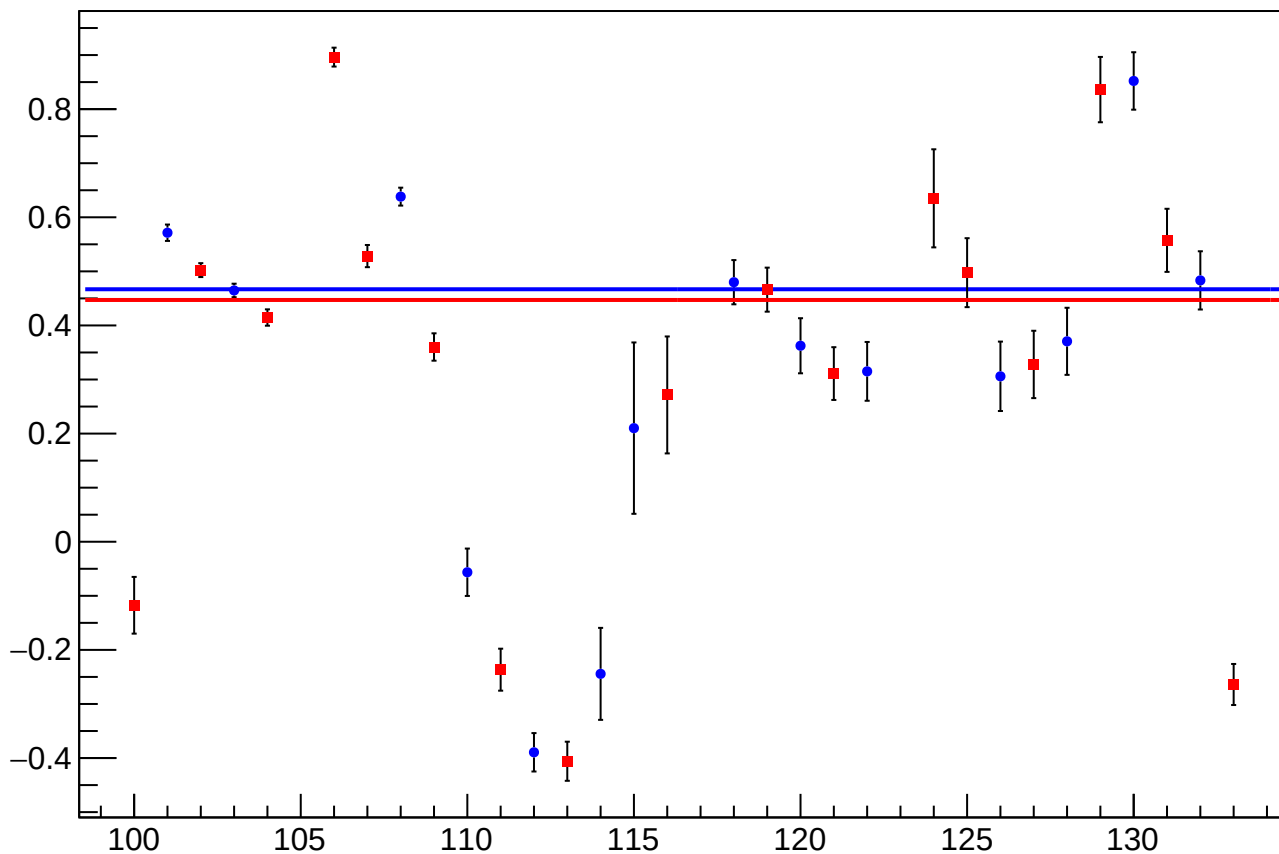
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -47.550+/-0.103  $\chi^2/\text{NDF}$ : 62144.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.467 $\pm$ 0.007  $\chi^2$ /NDF: 1024.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.447 $\pm$ 0.007  $\chi^2$ /NDF: 2109.9/16

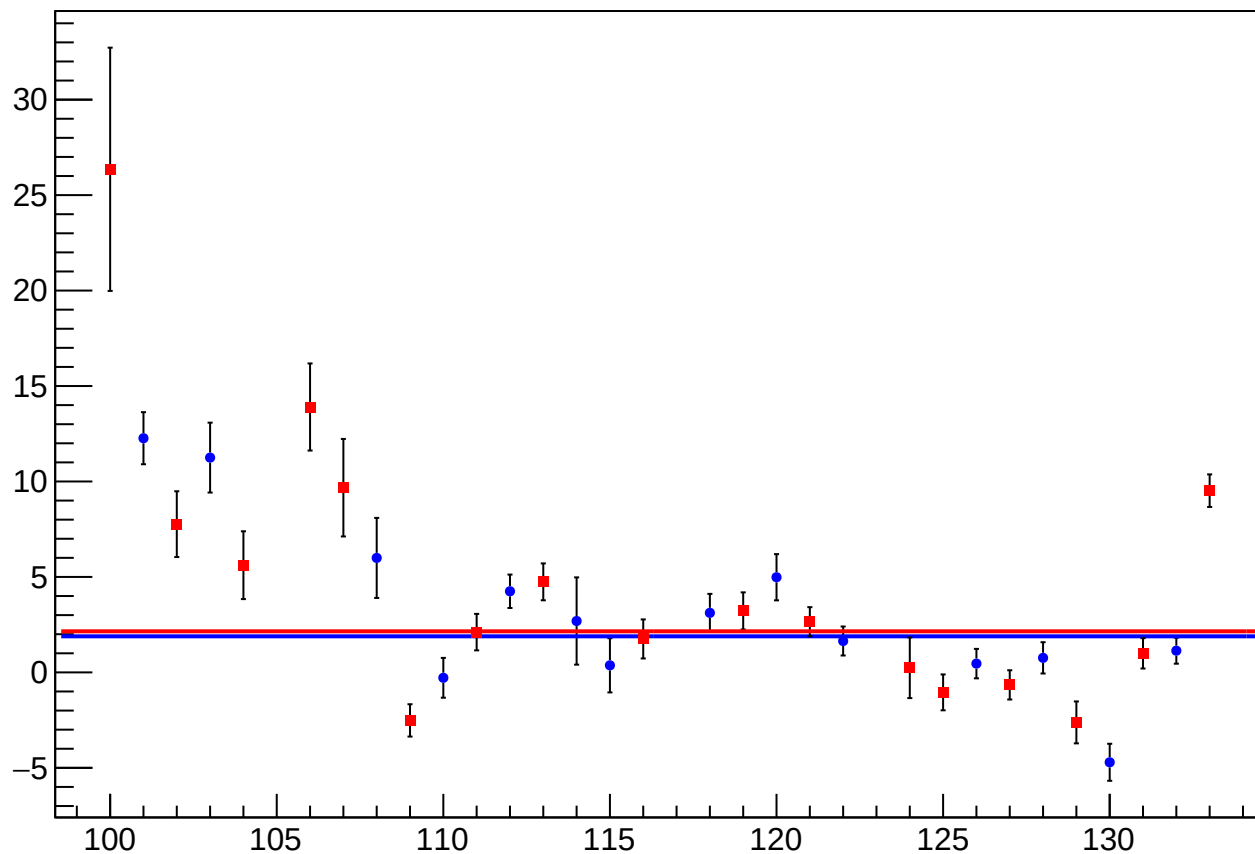
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.456 $\pm$ 0.005  $\chi^2$ /NDF: 3138.2/30

- 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: 1.889+/-0.269  $\chi^2/\text{NDF}$ : 161.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.152+/-0.255  $\chi^2/\text{NDF}$ : 225.4/16

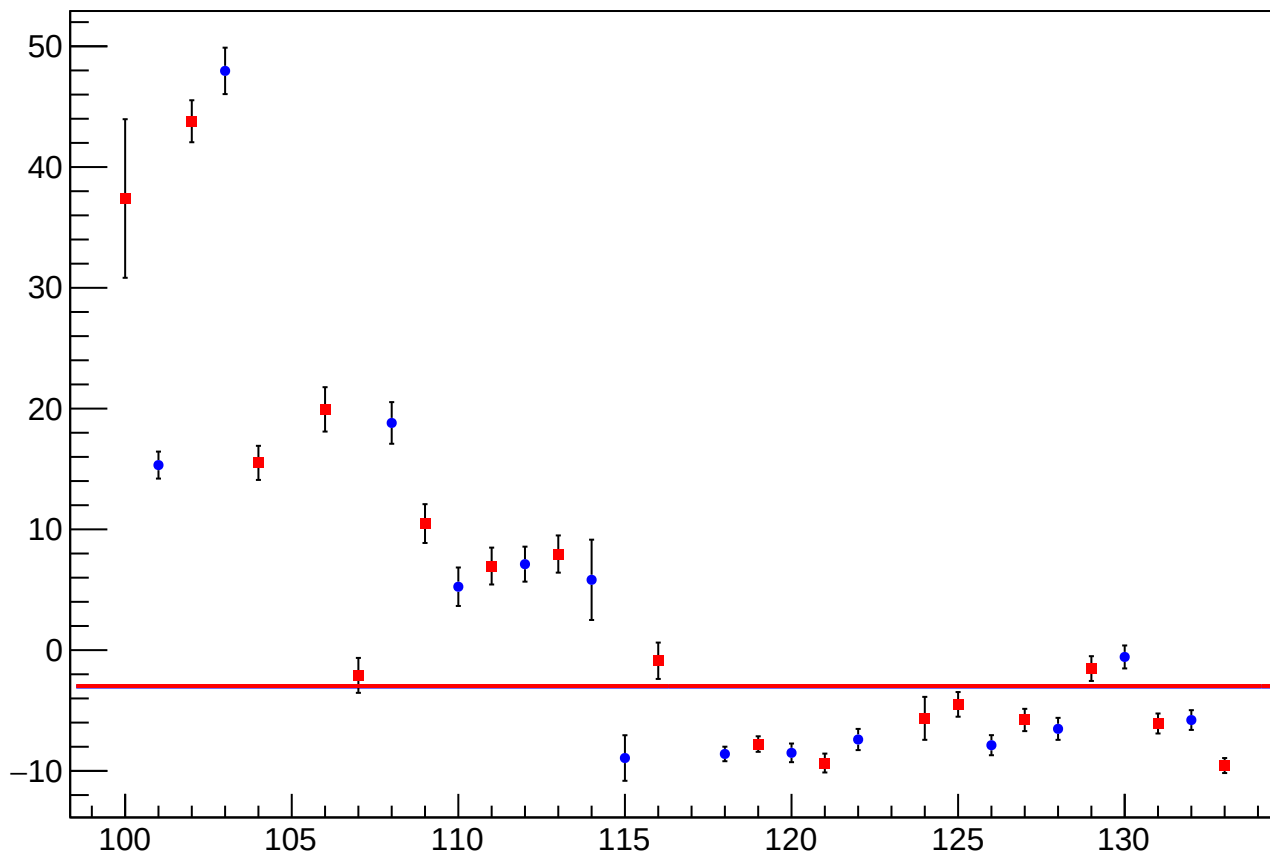
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.027+/-0.185  $\chi^2/\text{NDF}$ : 387.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -3.015+/-0.271  $\chi^2/\text{NDF}$ : 1454.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.972+/-0.260  $\chi^2/\text{NDF}$ : 1518.1/16

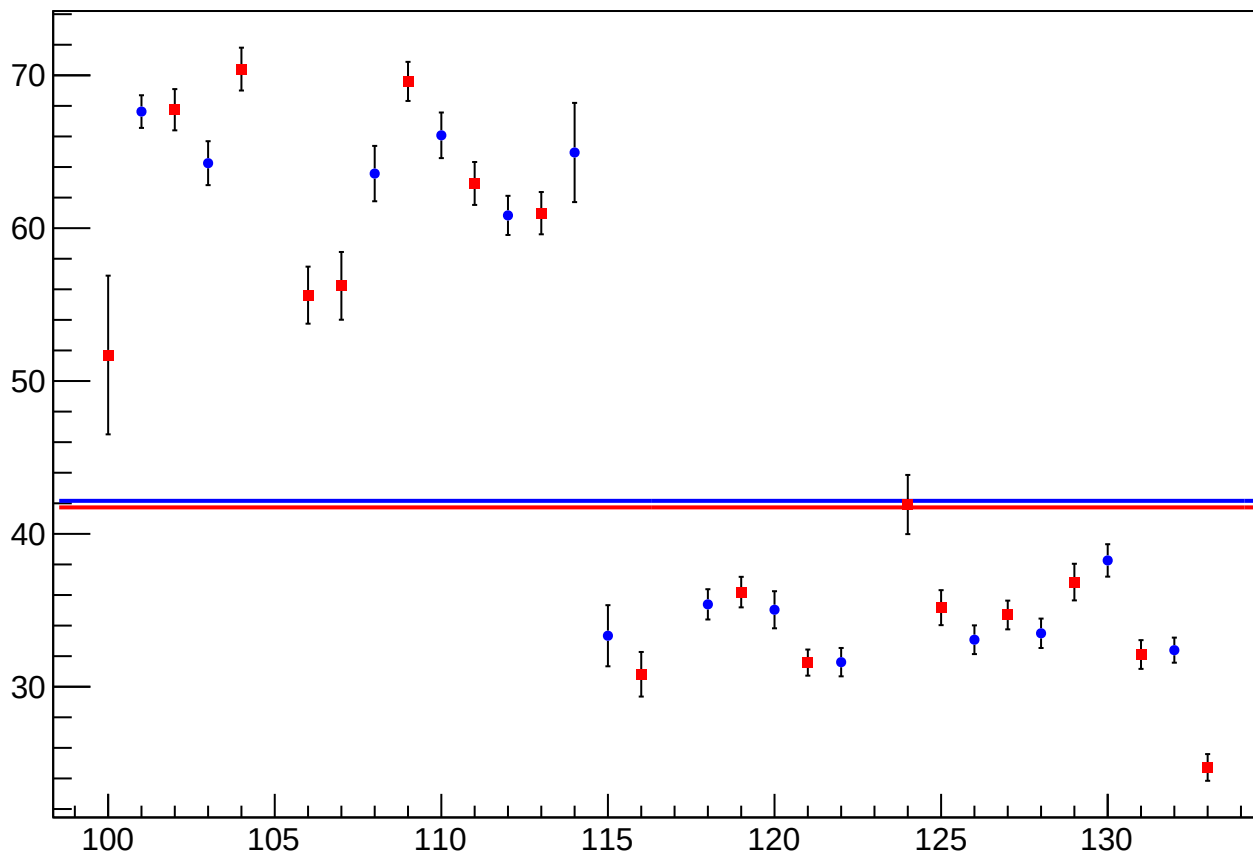
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.992+/-0.187  $\chi^2/\text{NDF}$ : 2972.6/30

- 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: 42.161 $\pm$ 0.308  $\chi^2$ /NDF: 2023.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 41.732 $\pm$ 0.297  $\chi^2$ /NDF: 2605.7/16

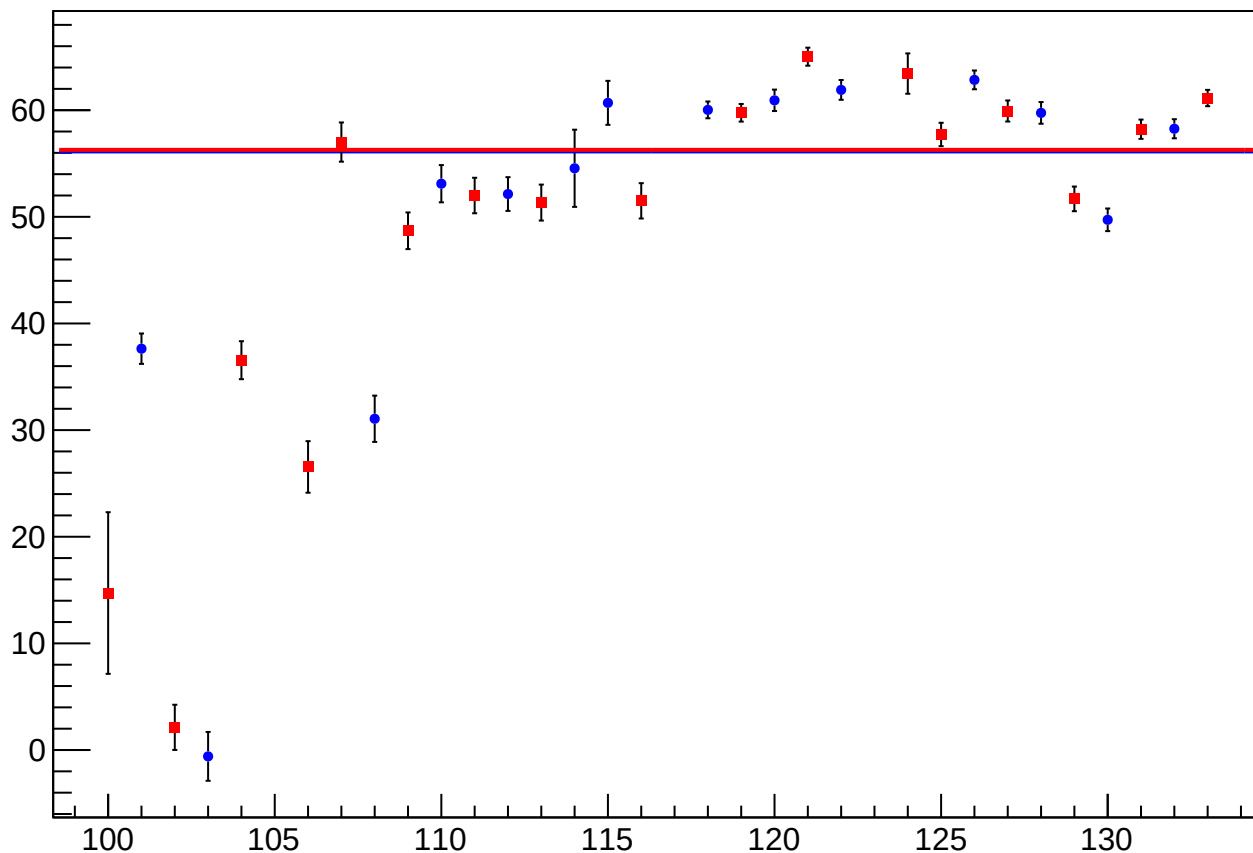
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 41.939 $\pm$ 0.214  $\chi^2$ /NDF: 4629.9/30

- 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: 56.133+/-0.315  $\chi^2/\text{NDF}$ : 1128.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 56.280+/-0.300  $\chi^2/\text{NDF}$ : 1214.6/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

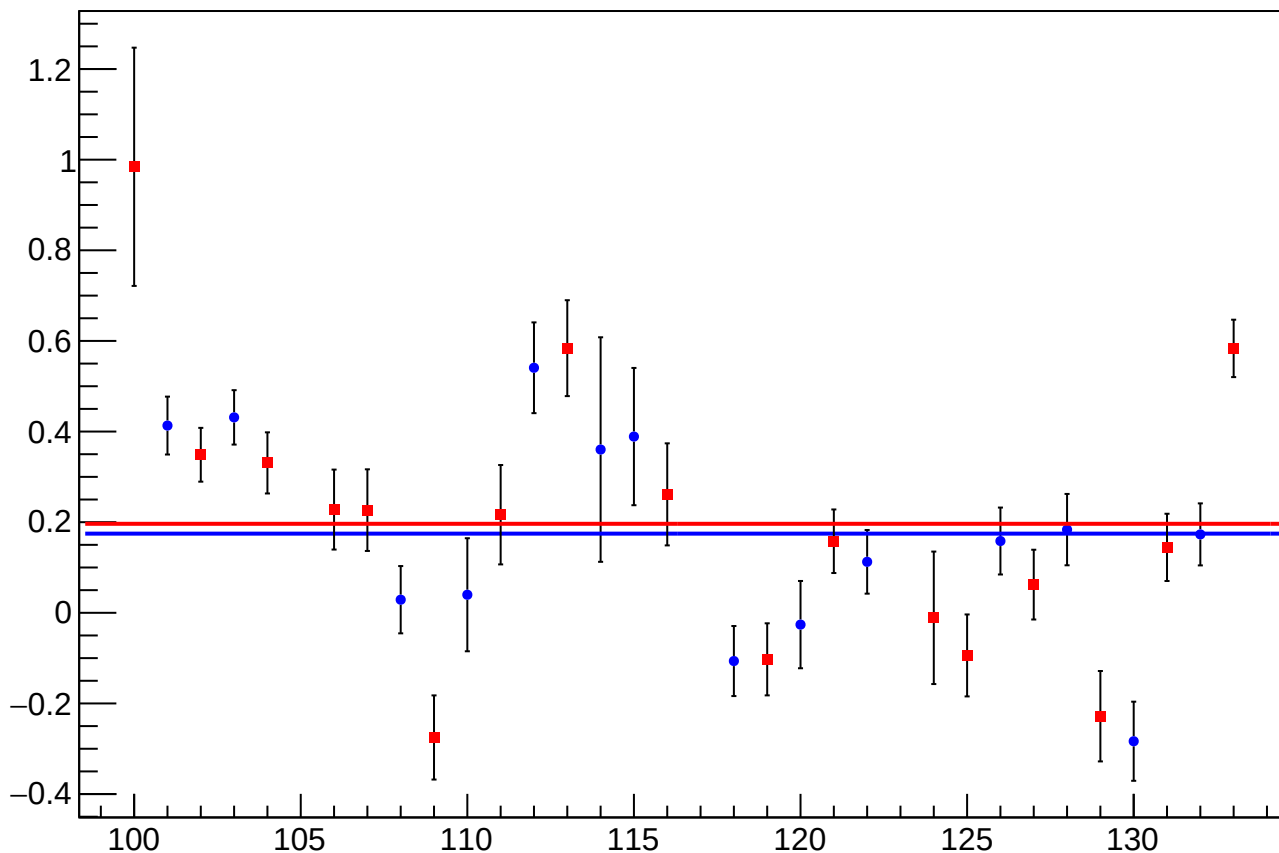
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.210+/-0.217  $\chi^2/\text{NDF}$ : 2342.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.175 $\pm$ 0.022  $\chi^2$ /NDF: 99.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.196 $\pm$ 0.021  $\chi^2$ /NDF: 145.1/16

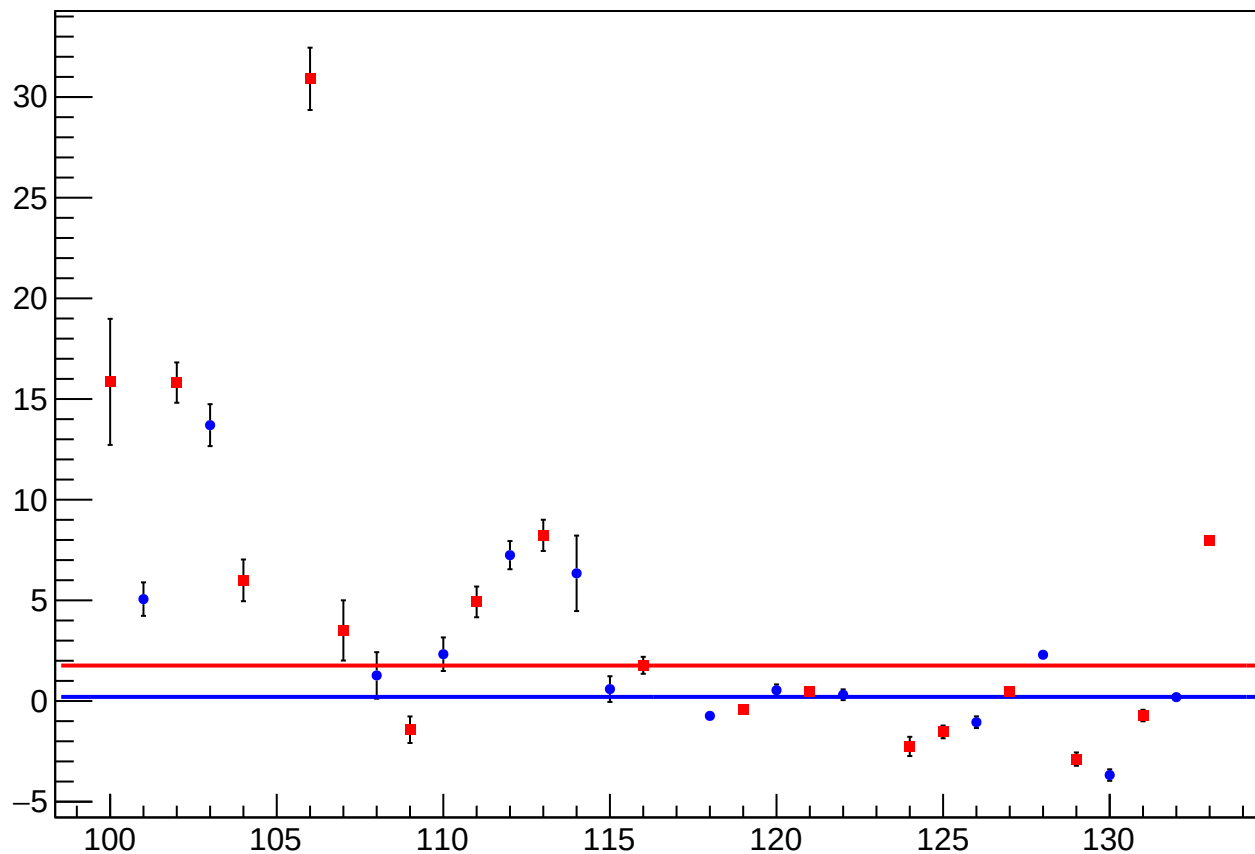
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.186 $\pm$ 0.015  $\chi^2$ /NDF: 244.7/30

- 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: 0.205 $\pm$ 0.096  $\chi^2$ /NDF: 613.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.762 $\pm$ 0.088  $\chi^2$ /NDF: 2340.3/16

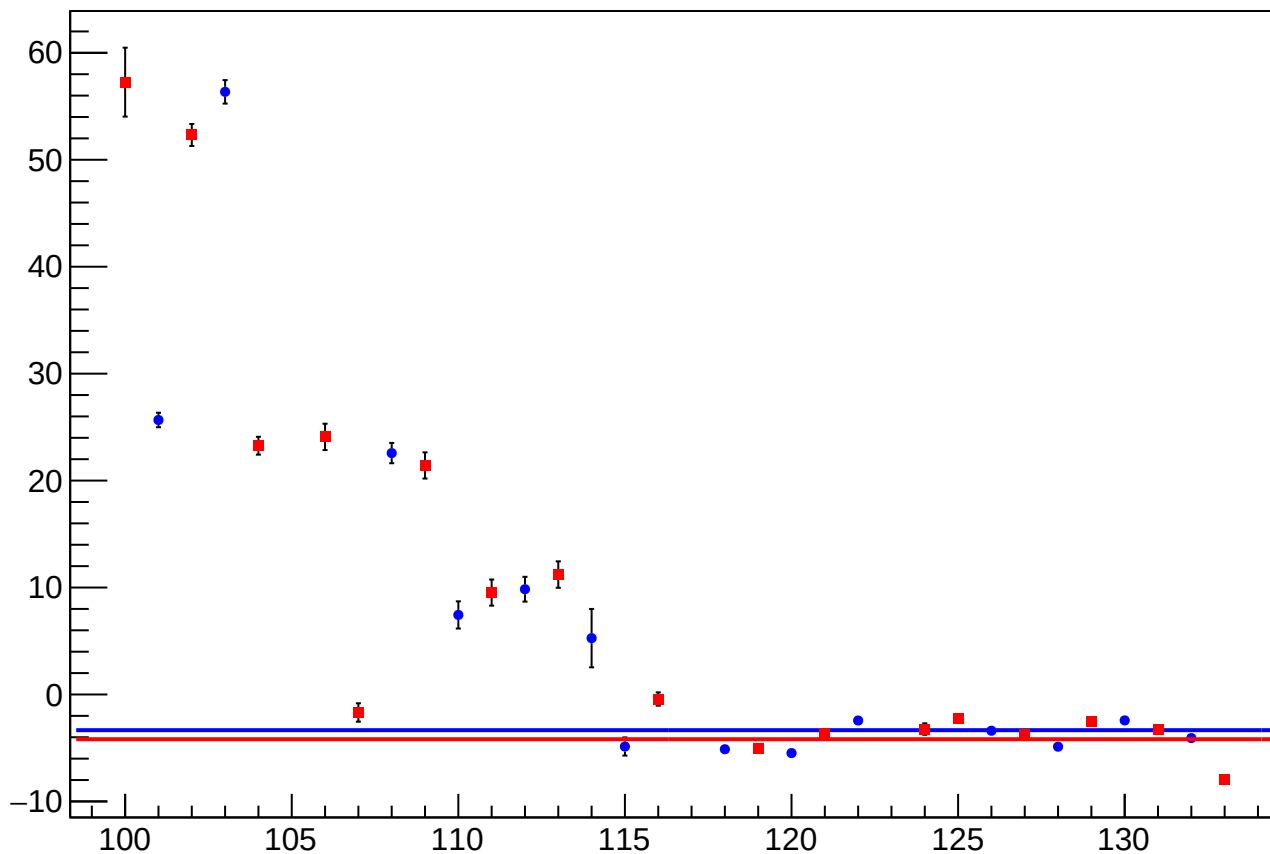
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.051 $\pm$ 0.065  $\chi^2$ /NDF: 3098.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-3.338 \pm 0.084$   $\chi^2/\text{NDF}$ : 6079.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.183 \pm 0.077$   $\chi^2/\text{NDF}$ : 6583.9/16

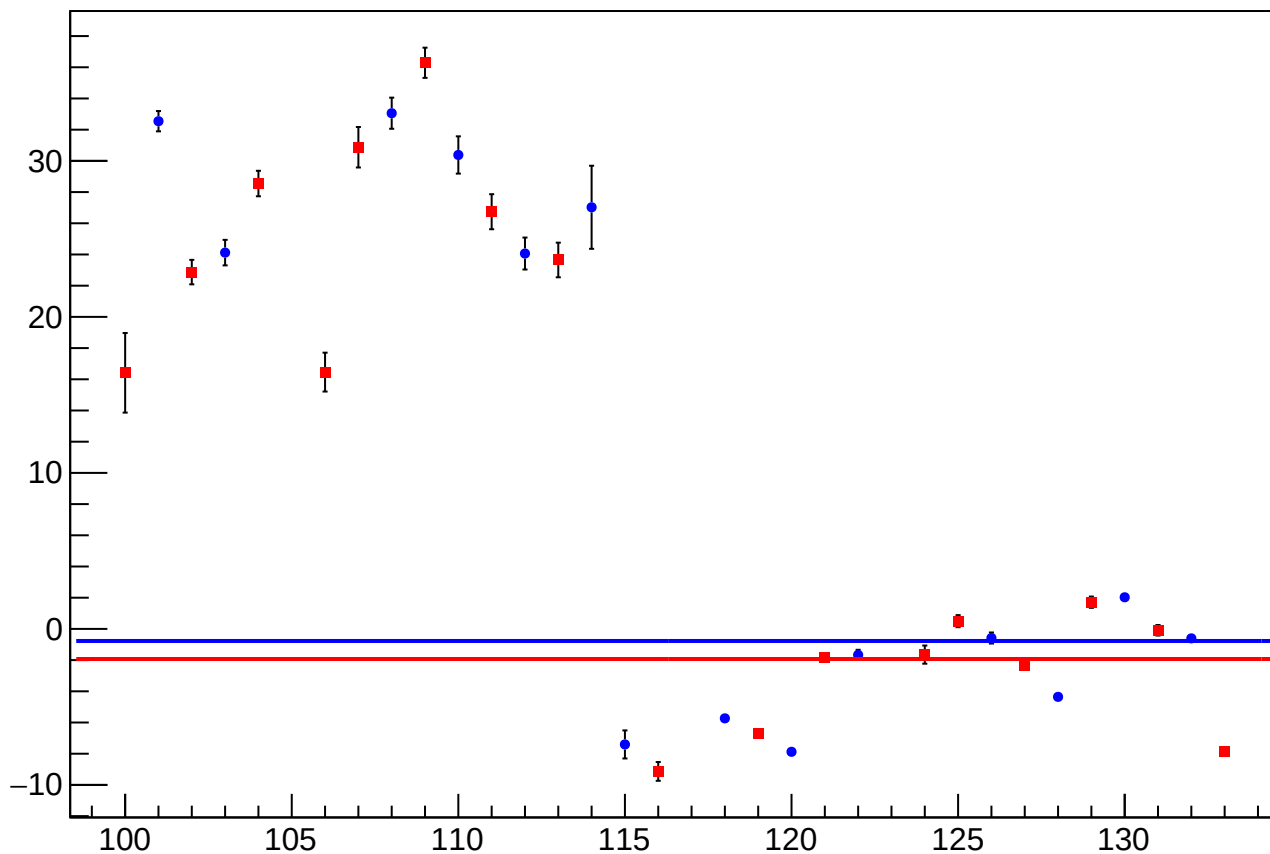
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-3.798 \pm 0.057$   $\chi^2/\text{NDF}$ : 12718.7/30

- 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:  $-0.773 \pm 0.107$   $\chi^2/\text{NDF}$ : 7414.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.929 \pm 0.097$   $\chi^2/\text{NDF}$ : 7689.8/16

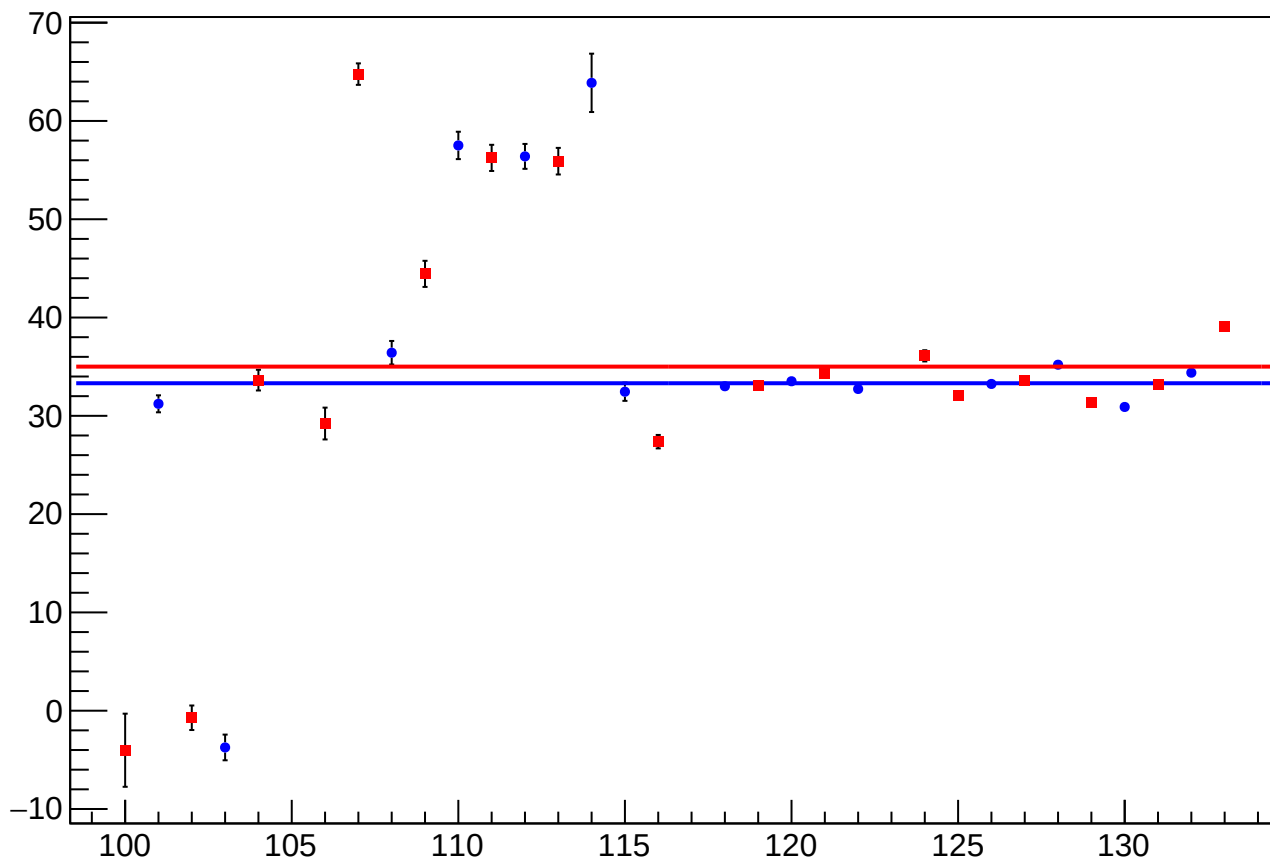
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.407 \pm 0.072$   $\chi^2/\text{NDF}$ : 15168.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 33.315+/-0.101  $\chi^2/\text{NDF}$ : 1668.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.006+/-0.091  $\chi^2/\text{NDF}$ : 3237.1/16

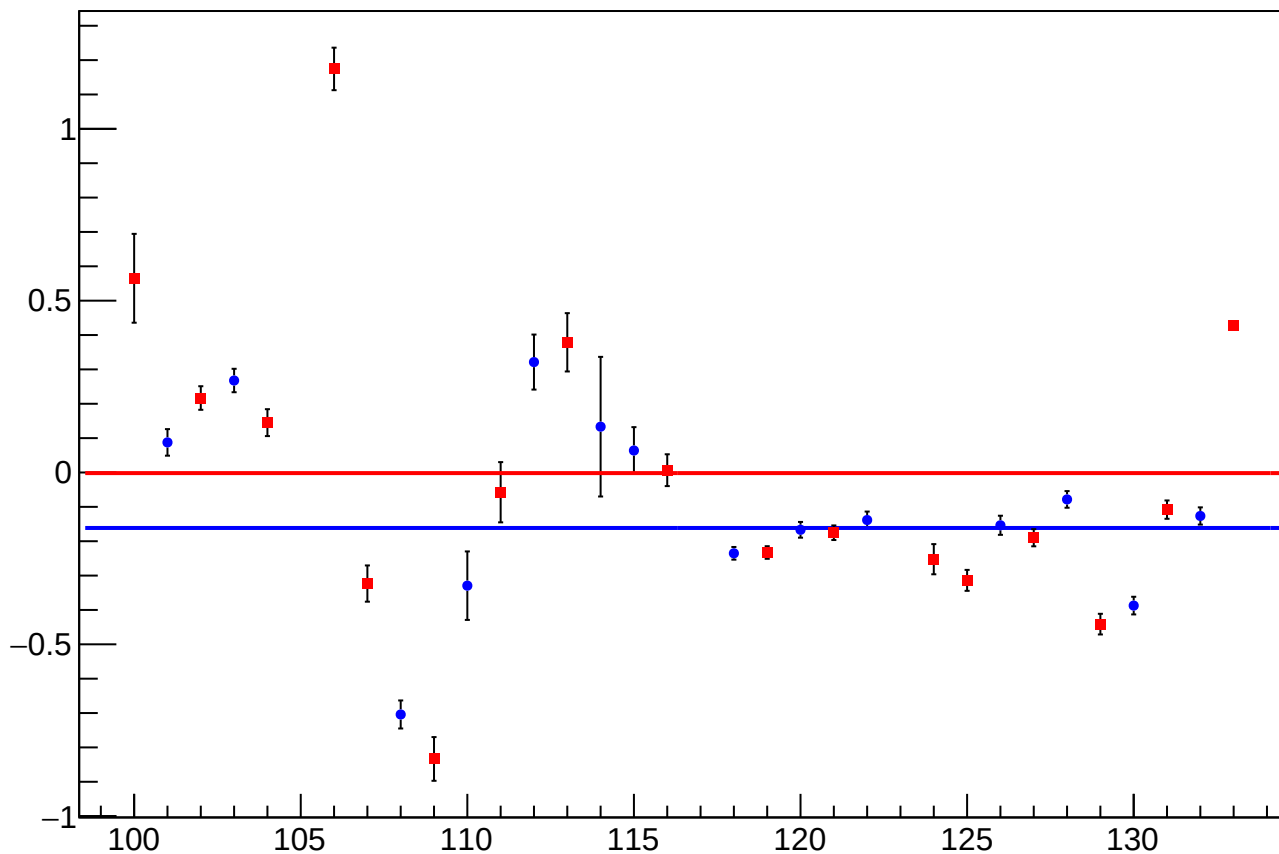
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 34.247+/-0.067  $\chi^2/\text{NDF}$ : 5061.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.161 \pm 0.008$   $\chi^2/\text{NDF}$ : 537.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.002 \pm 0.007$   $\chi^2/\text{NDF}$ : 2229.5/16

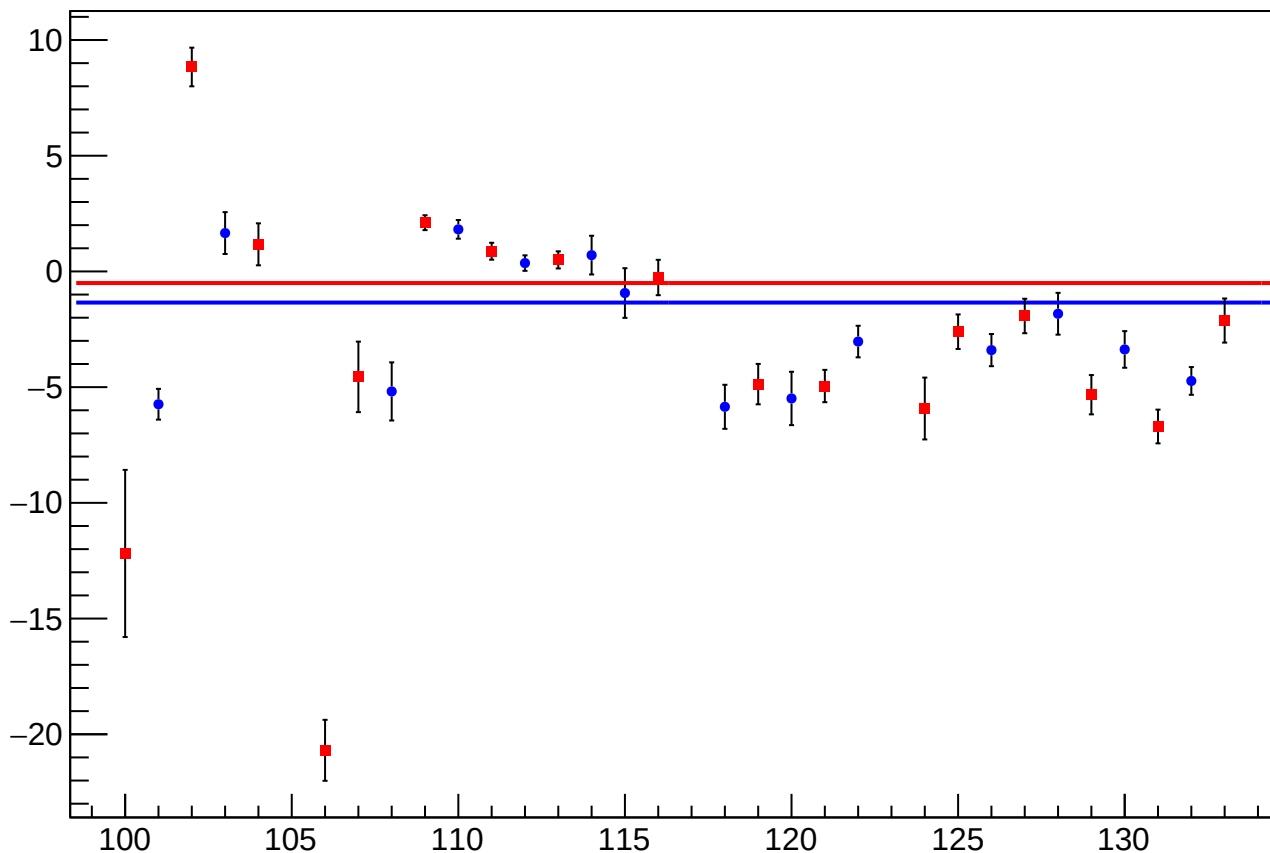
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.073 \pm 0.005$   $\chi^2/\text{NDF}$ : 2982.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -1.345+/-0.174  $\chi^2/\text{NDF}$ : 246.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.501+/-0.155  $\chi^2/\text{NDF}$ : 669.6/16

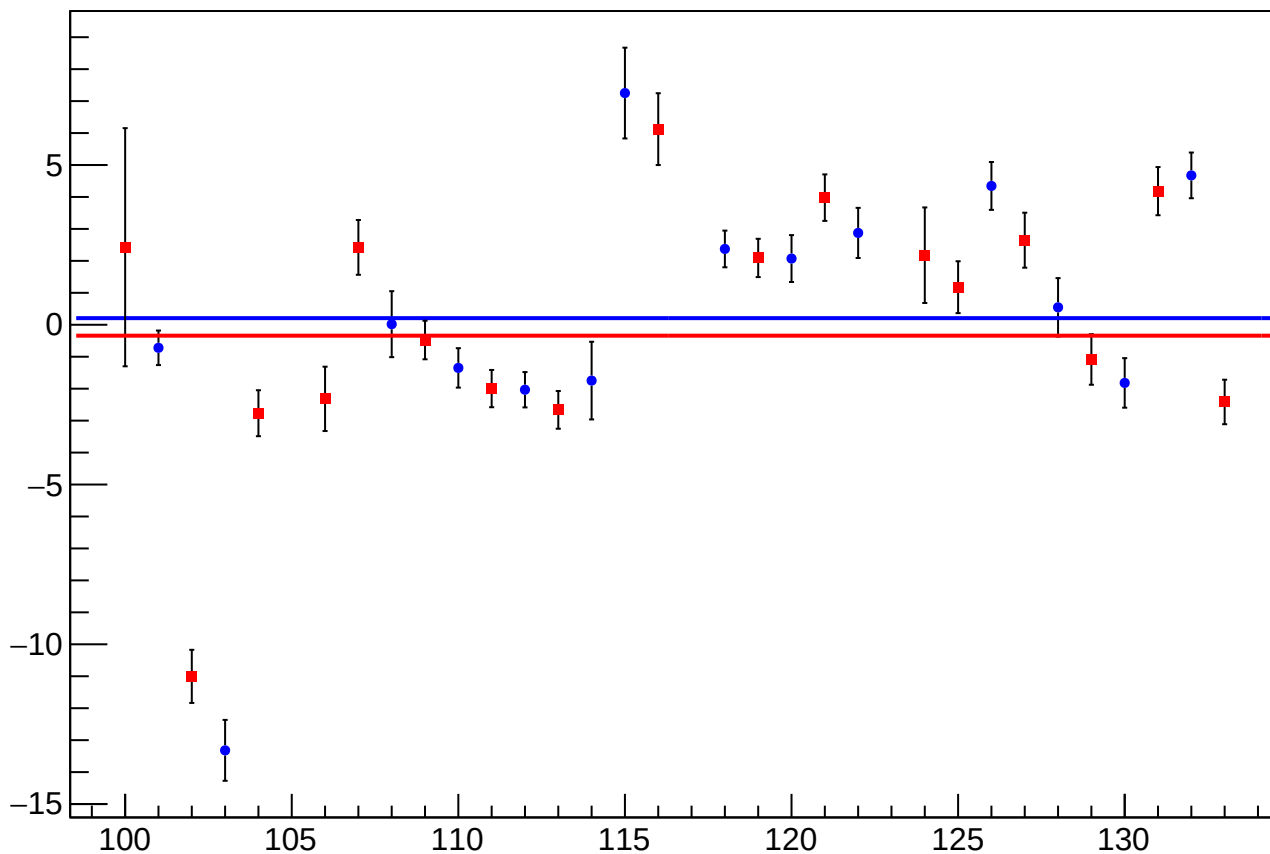
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.875+/-0.115  $\chi^2/\text{NDF}$ : 929.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.207 $\pm$ 0.197  $\chi^2$ /NDF: 363.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.341 $\pm$ 0.187  $\chi^2$ /NDF: 363.3/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

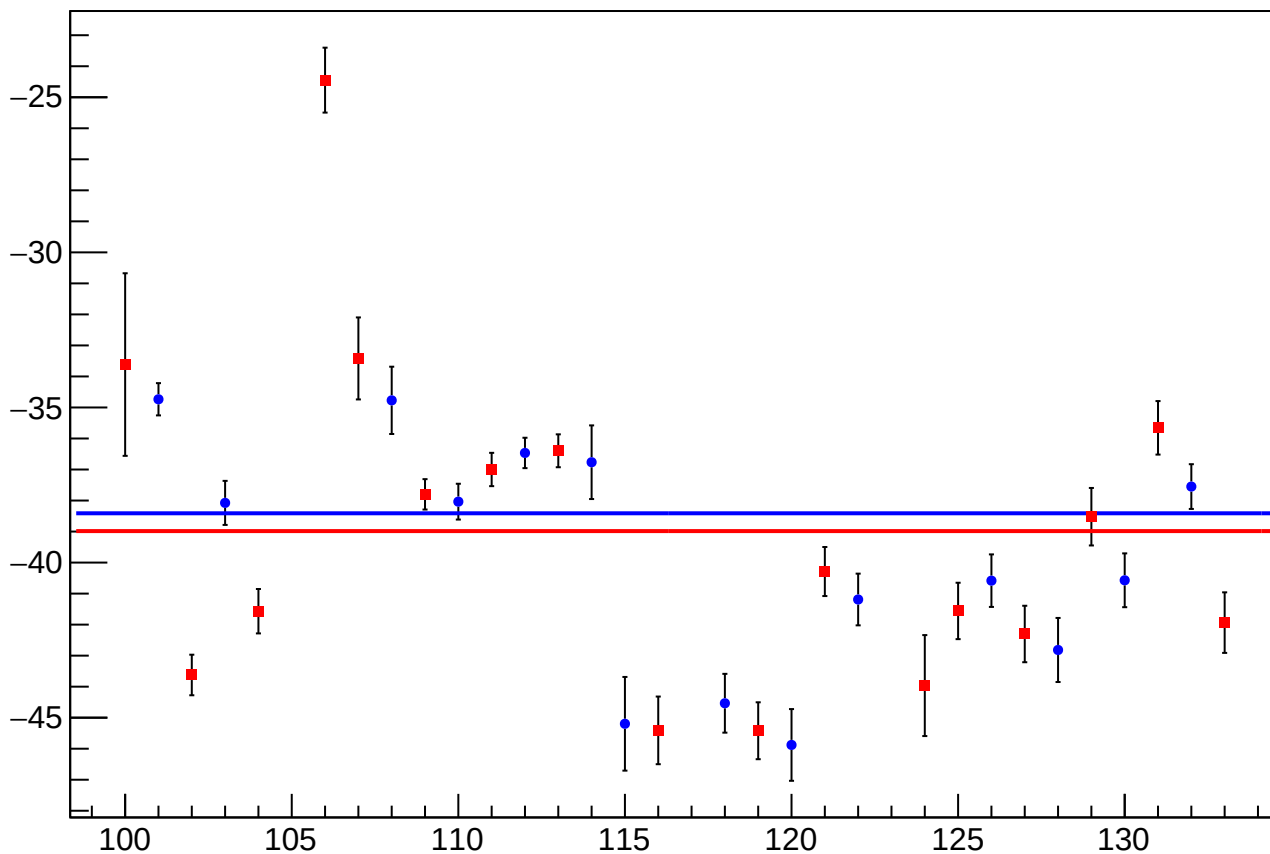
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.082 $\pm$ 0.136  $\chi^2$ /NDF: 730.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -38.411 $\pm$ 0.205  $\chi^2$ /NDF: 226.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -38.985 $\pm$ 0.192  $\chi^2$ /NDF: 462.4/16

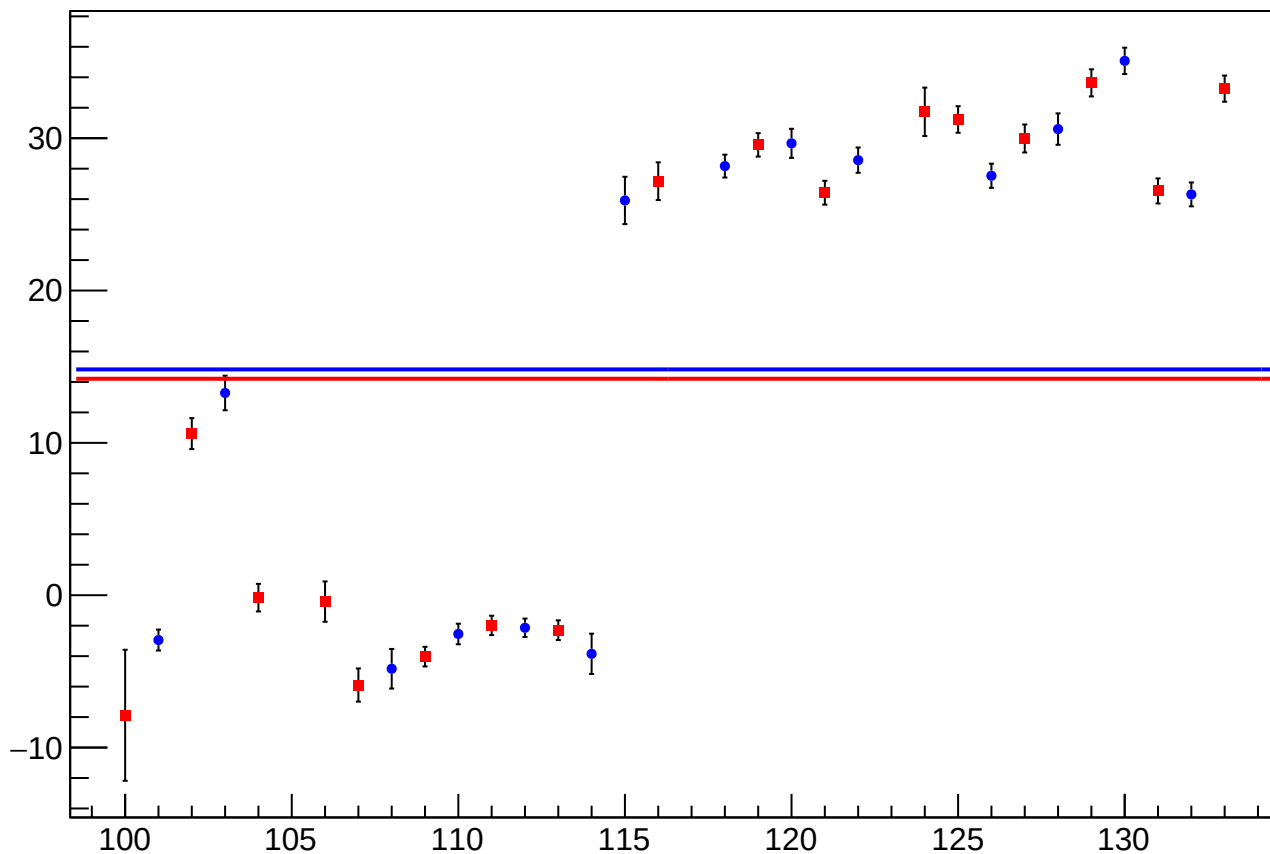
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -38.717 $\pm$ 0.140  $\chi^2$ /NDF: 693.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 14.823+/-0.228  $\chi^2$ /NDF: 4677.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 14.209+/-0.214  $\chi^2$ /NDF: 5598.2/16

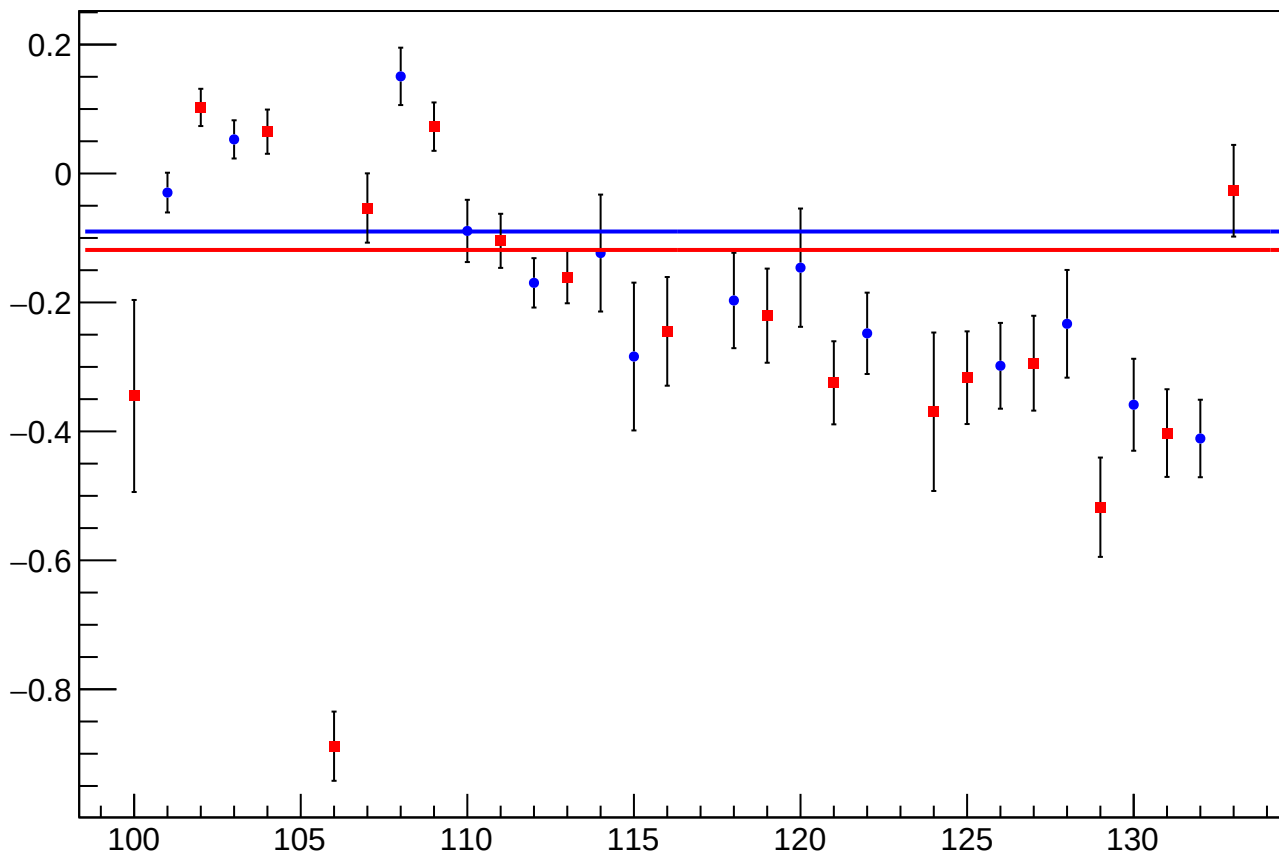
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 14.496+/-0.156  $\chi^2$ /NDF: 10279.1/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.090 \pm 0.014$   $\chi^2/\text{NDF}$ : 127.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.119 \pm 0.013$   $\chi^2/\text{NDF}$ : 401.6/16

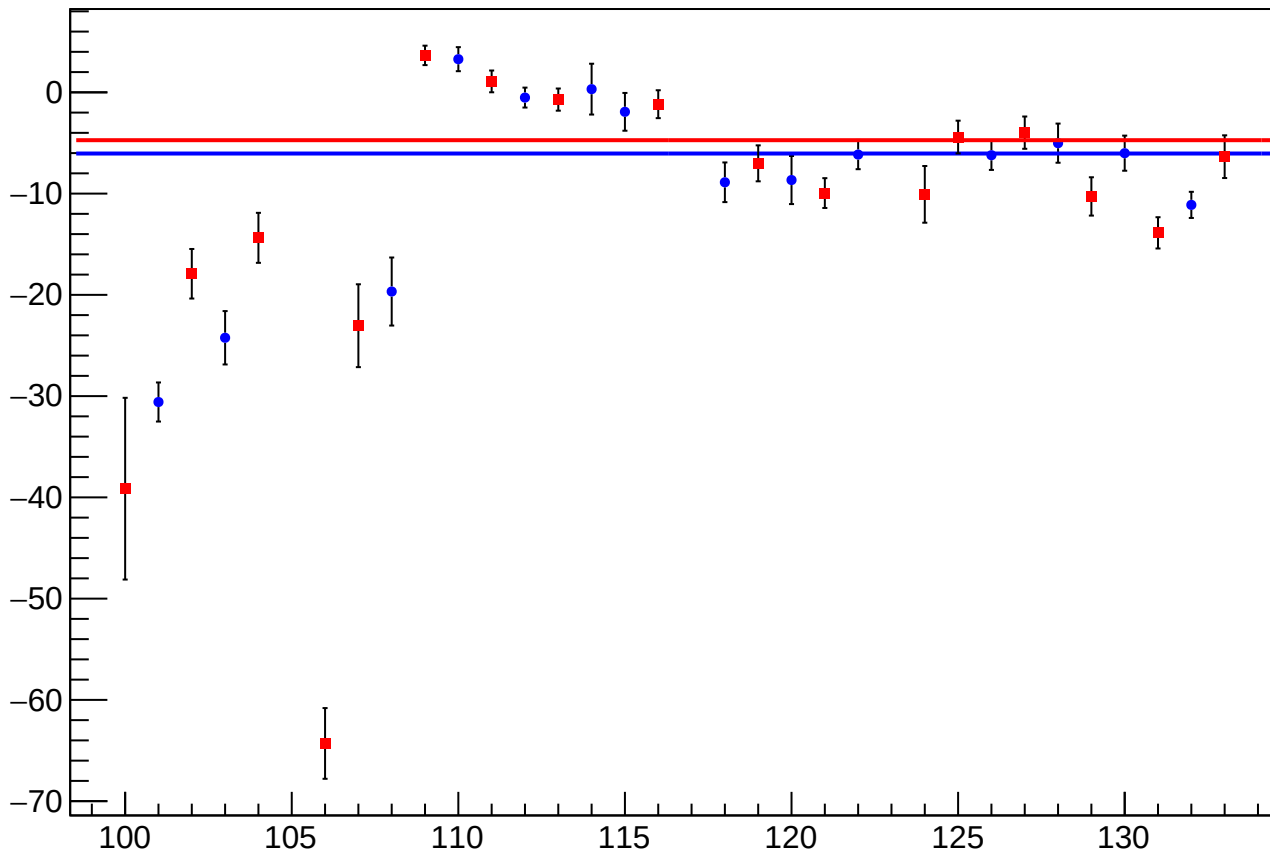
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.105 \pm 0.009$   $\chi^2/\text{NDF}$ : 531.8/30

- 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:  $-6.042 \pm 0.435$   $\chi^2/\text{NDF}$ : 349.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.725 \pm 0.395$   $\chi^2/\text{NDF}$ : 558.0/16

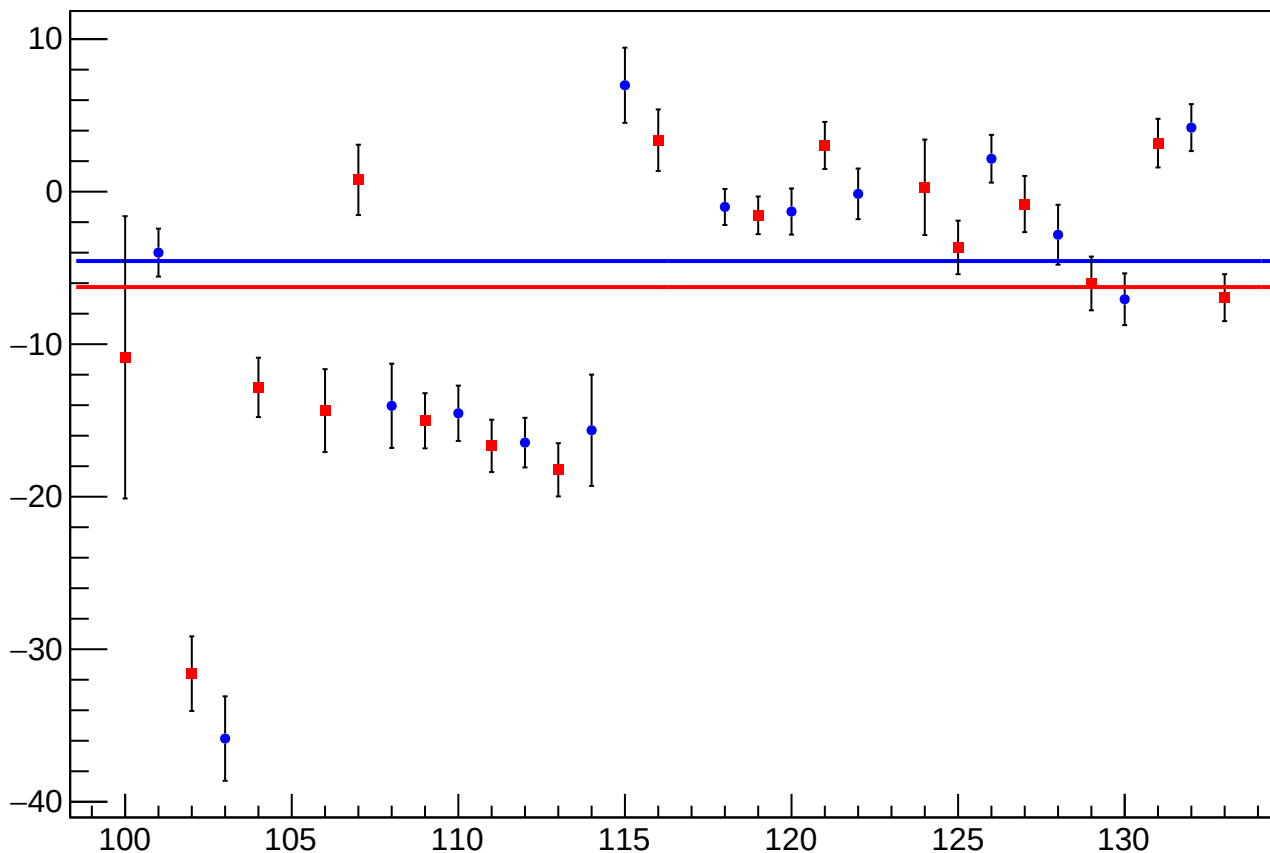
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.320 \pm 0.293$   $\chi^2/\text{NDF}$ : 912.3/30

- 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: -4.550 $\pm$ 0.469  $\chi^2$ /NDF: 329.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -6.255 $\pm$ 0.451  $\chi^2$ /NDF: 368.7/16

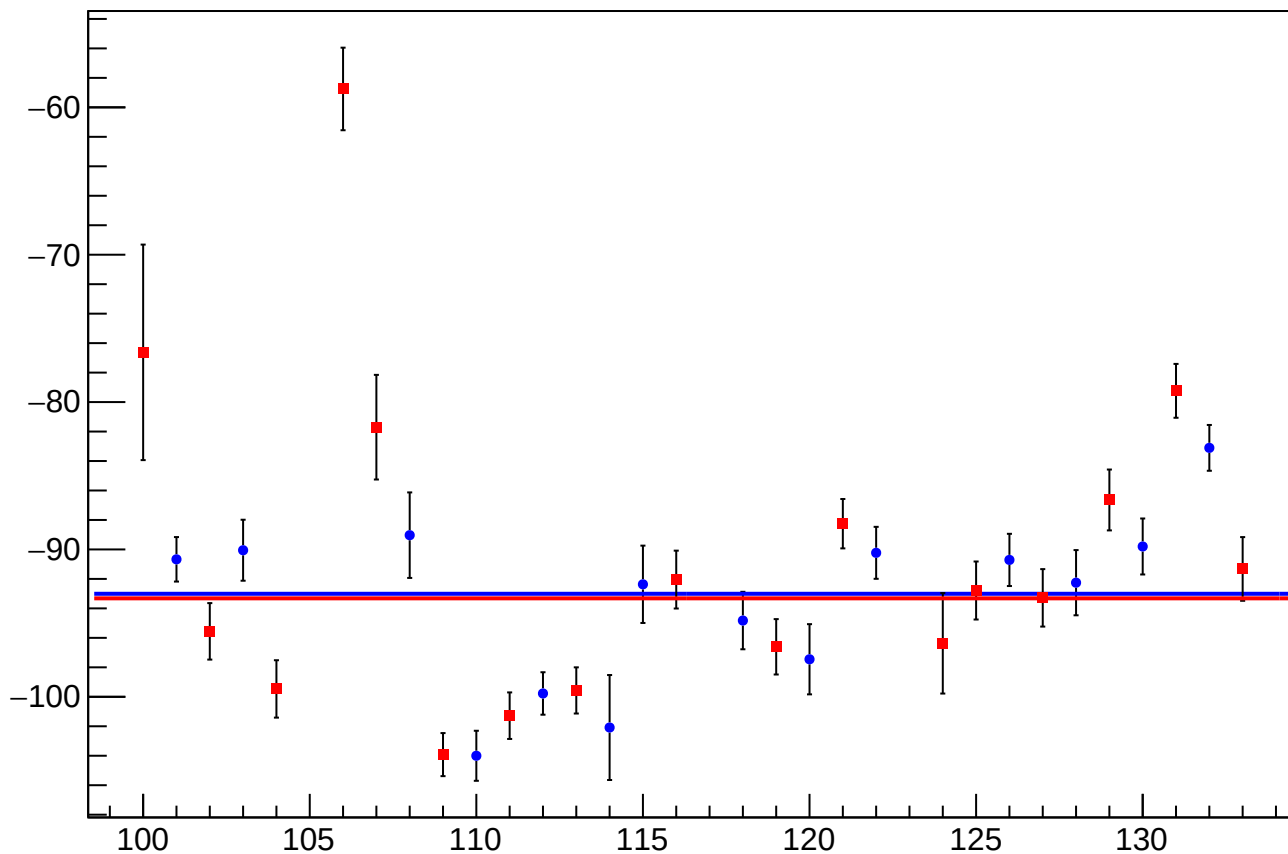
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -5.436 $\pm$ 0.325  $\chi^2$ /NDF: 704.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -93.009+/-0.512  $\chi^2/\text{NDF}$ : 128.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -93.319+/-0.483  $\chi^2/\text{NDF}$ : 357.6/16

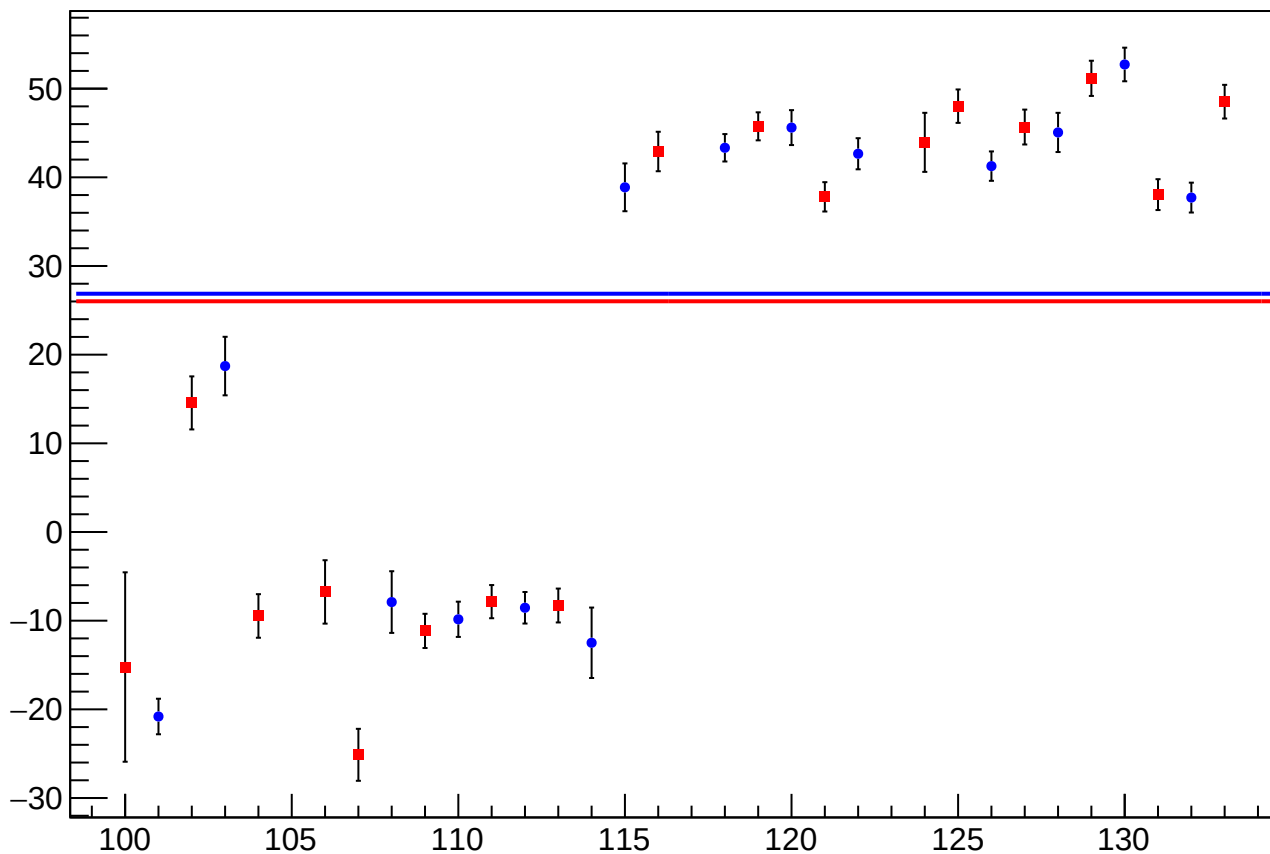
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -93.173+/-0.351  $\chi^2/\text{NDF}$ : 486.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 26.872 $\pm$ 0.543  $\chi^2$ /NDF: 2183.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.020 $\pm$ 0.515  $\chi^2$ /NDF: 2526.5/16

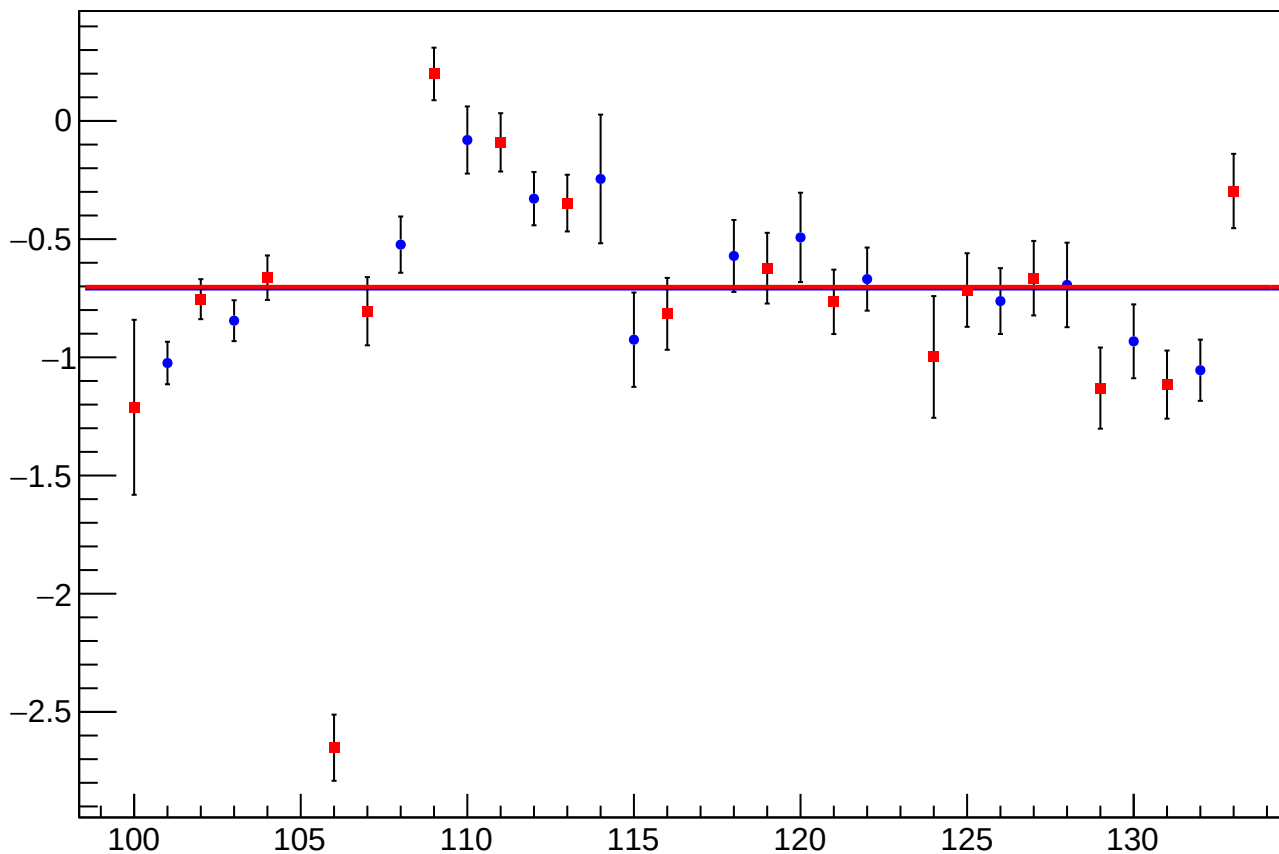
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 26.424 $\pm$ 0.374  $\chi^2$ /NDF: 4710.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_2468\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.709 $\pm$ 0.035  $\chi^2$ /NDF: 63.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.702 $\pm$ 0.033  $\chi^2$ /NDF: 319.5/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

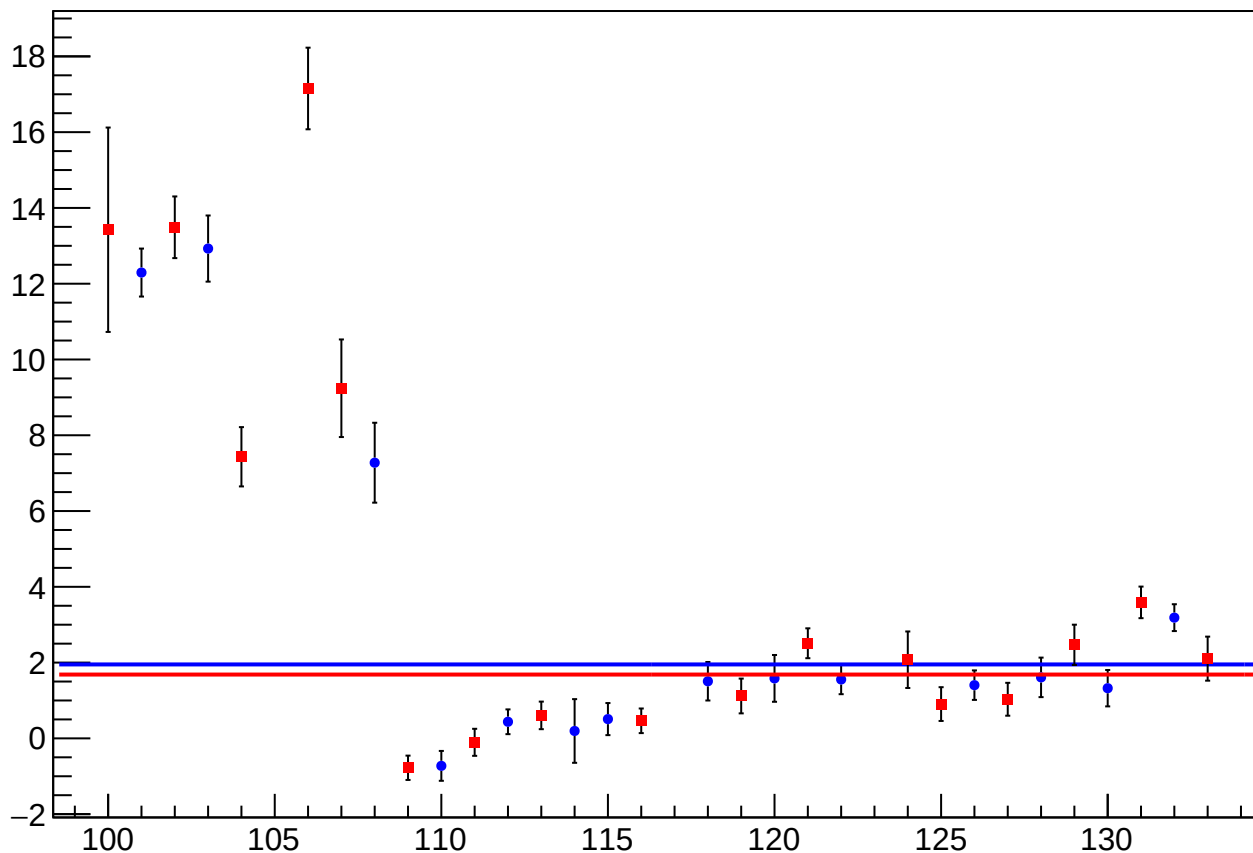
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.705 $\pm$ 0.024  $\chi^2$ /NDF: 383.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 1.951+/-0.126  $\chi^2/\text{NDF}$ : 552.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.684+/-0.116  $\chi^2/\text{NDF}$ : 665.8/16

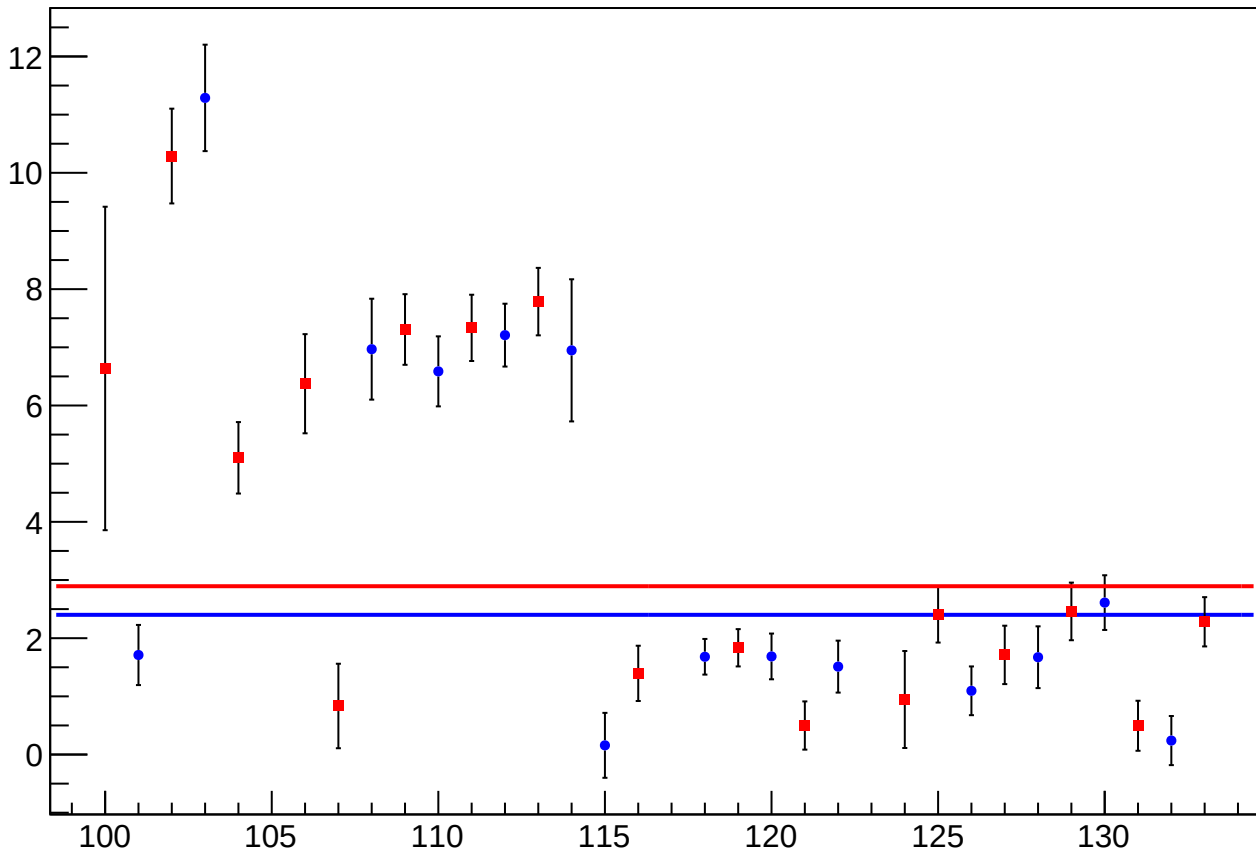
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.806+/-0.085  $\chi^2/\text{NDF}$ : 1220.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 2.402 $\pm$ 0.131  $\chi^2$ /NDF: 332.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.893 $\pm$ 0.128  $\chi^2$ /NDF: 406.9/16

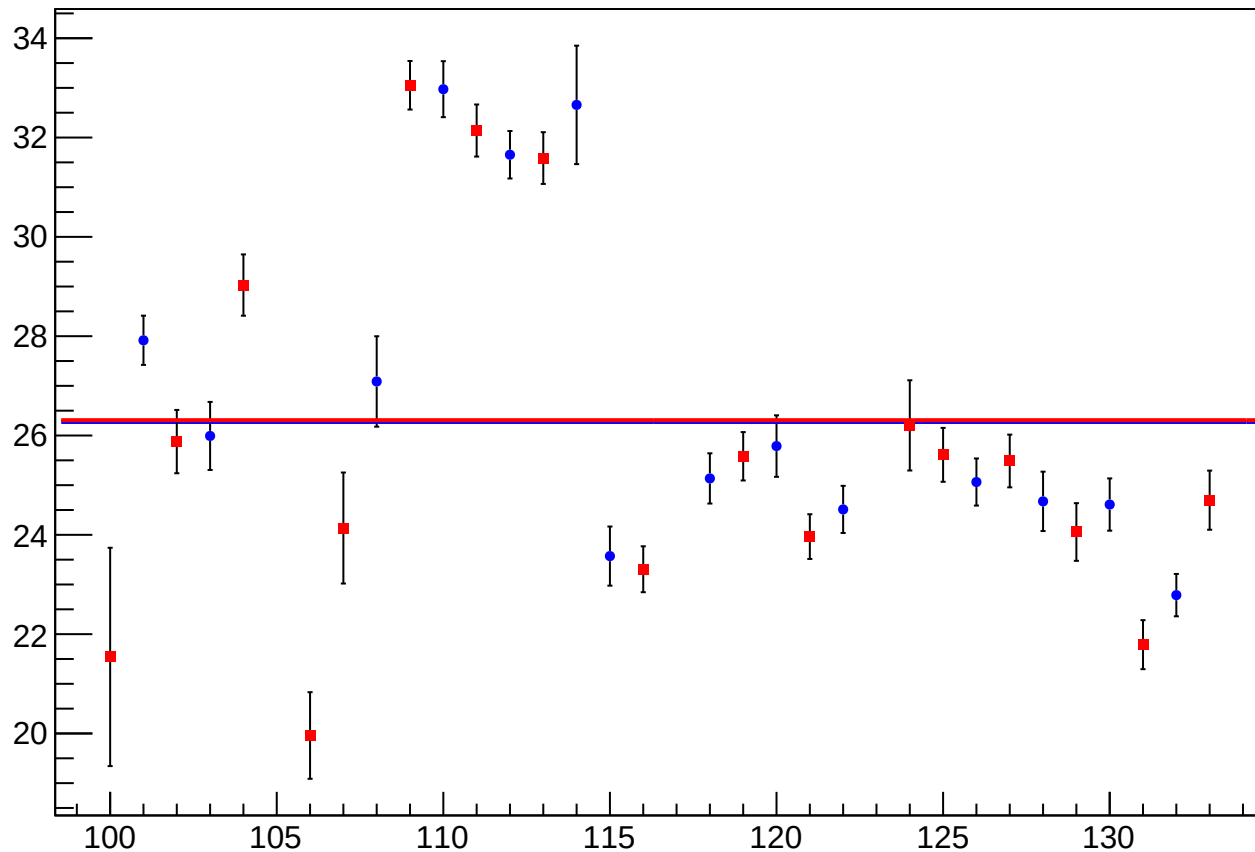
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.654 $\pm$ 0.092  $\chi^2$ /NDF: 746.3/30

- 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: 26.273+/-0.148  $\chi^2$ /NDF: 439.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.309+/-0.140  $\chi^2$ /NDF: 680.0/16

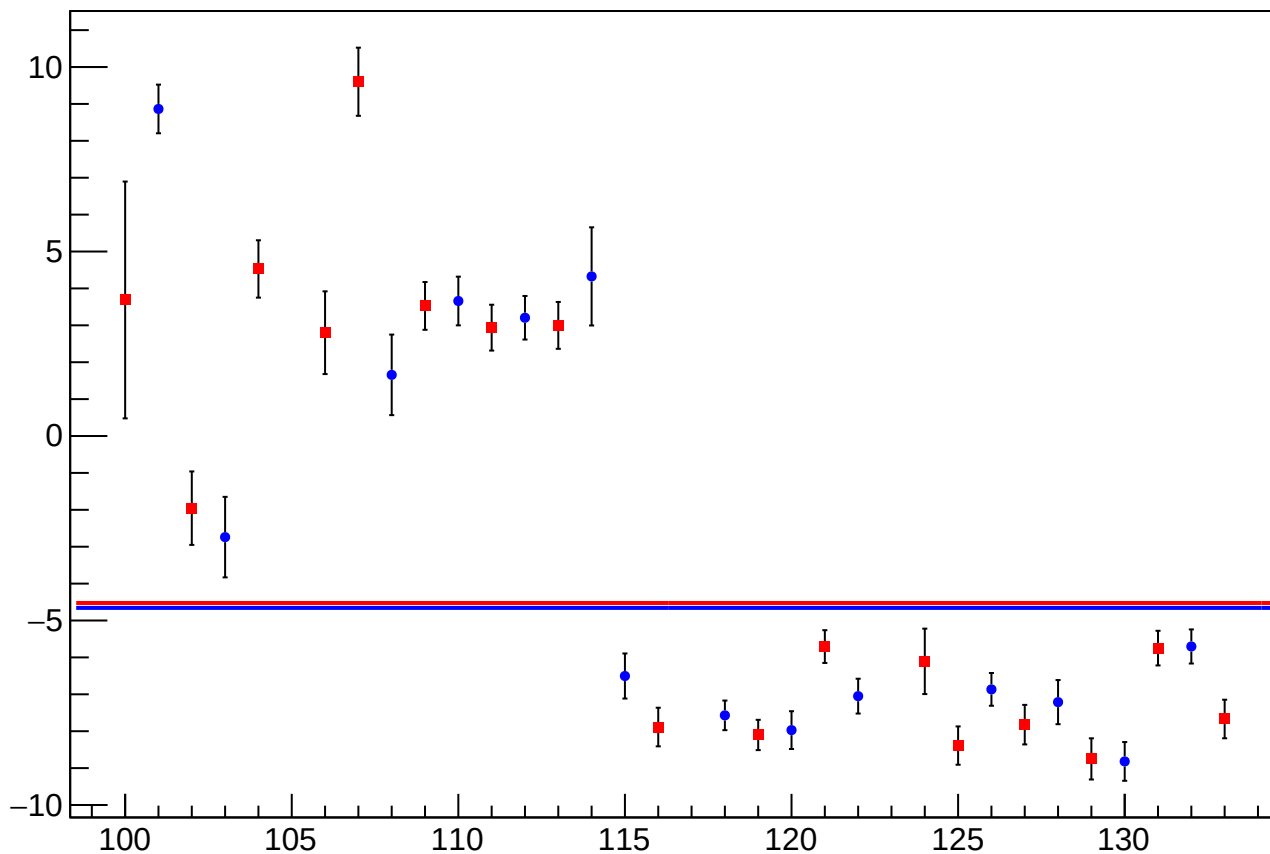
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 26.292+/-0.102  $\chi^2$ /NDF: 1119.1/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-4.658 \pm 0.152$   $\chi^2/\text{NDF}$ : 1079.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.525 \pm 0.146$   $\chi^2/\text{NDF}$ : 1185.7/16

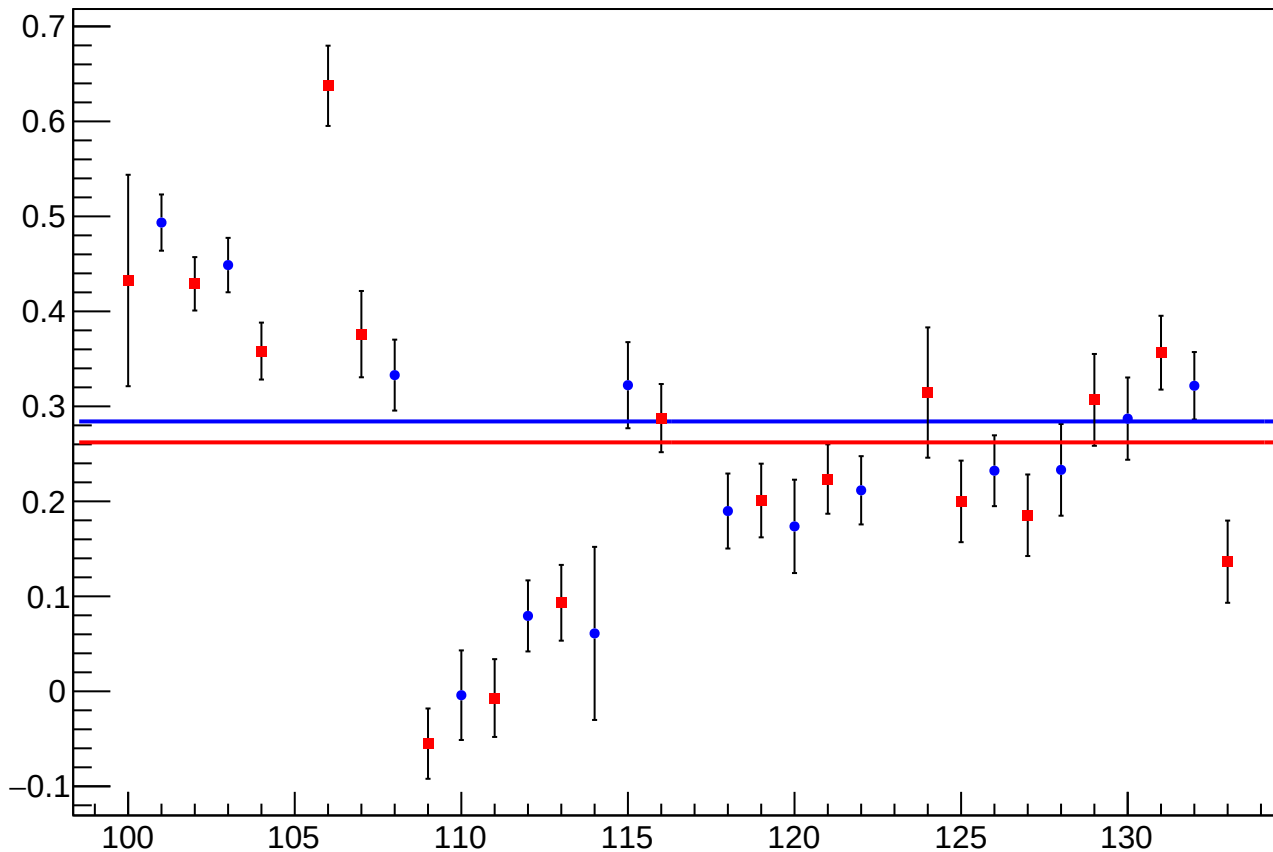
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-4.589 \pm 0.106$   $\chi^2/\text{NDF}$ : 2265.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.284 $\pm$ 0.010  $\chi^2$ /NDF: 177.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.262 $\pm$ 0.010  $\chi^2$ /NDF: 292.8/16

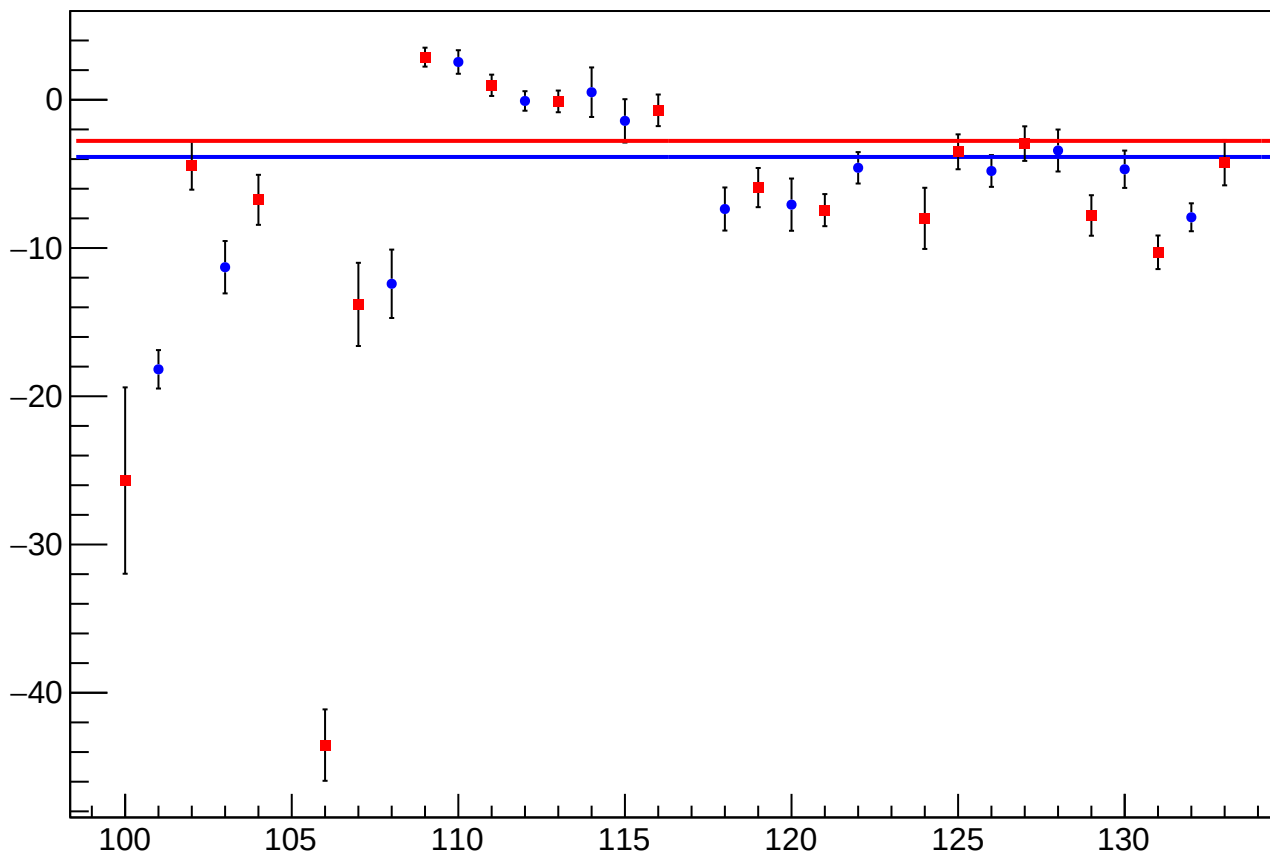
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.272 $\pm$ 0.007  $\chi^2$ /NDF: 473.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-3.858 \pm 0.307$   $\chi^2/\text{NDF}$ : 290.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.773 \pm 0.277$   $\chi^2/\text{NDF}$ : 533.6/16

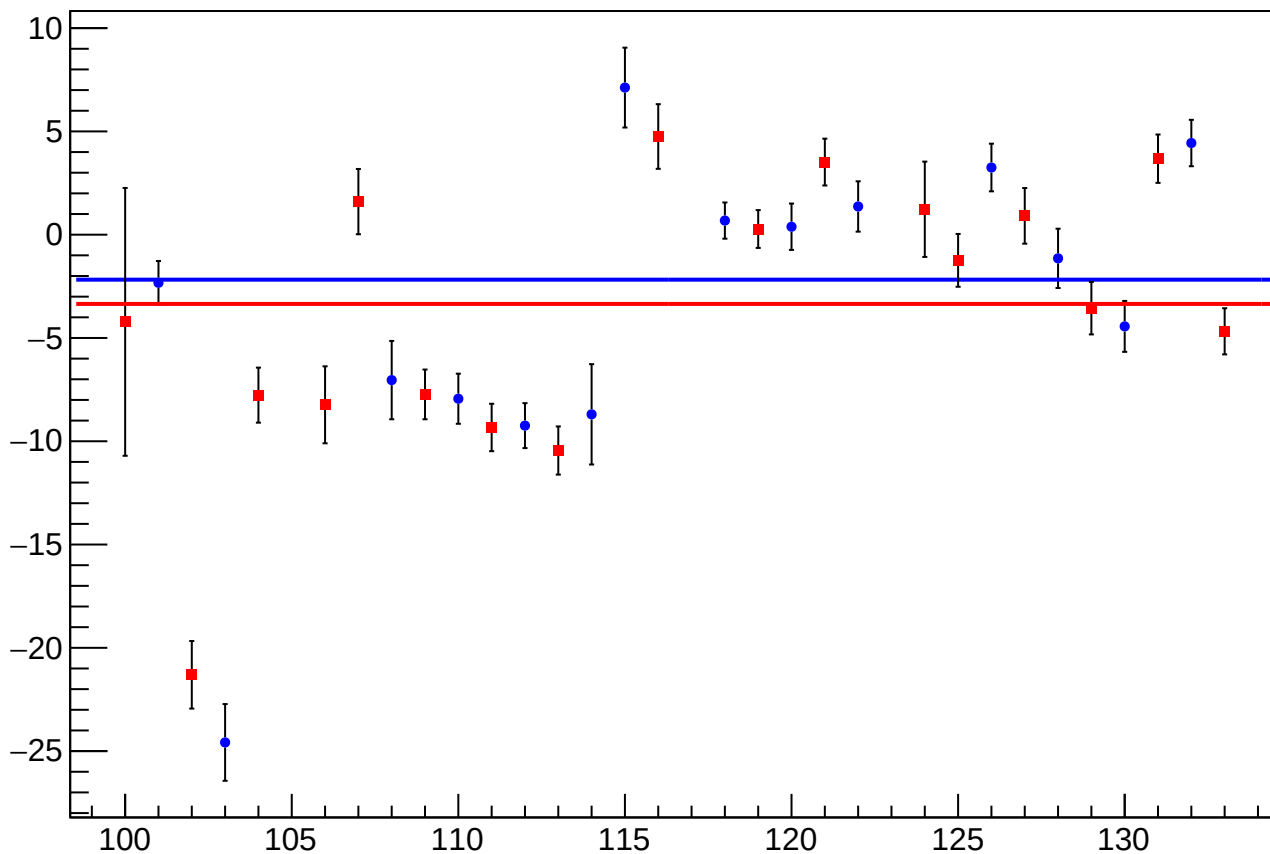
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-3.260 \pm 0.206$   $\chi^2/\text{NDF}$ : 831.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -2.177 $\pm$ 0.335  $\chi^2$ /NDF: 332.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.352 $\pm$ 0.321  $\chi^2$ /NDF: 359.2/16

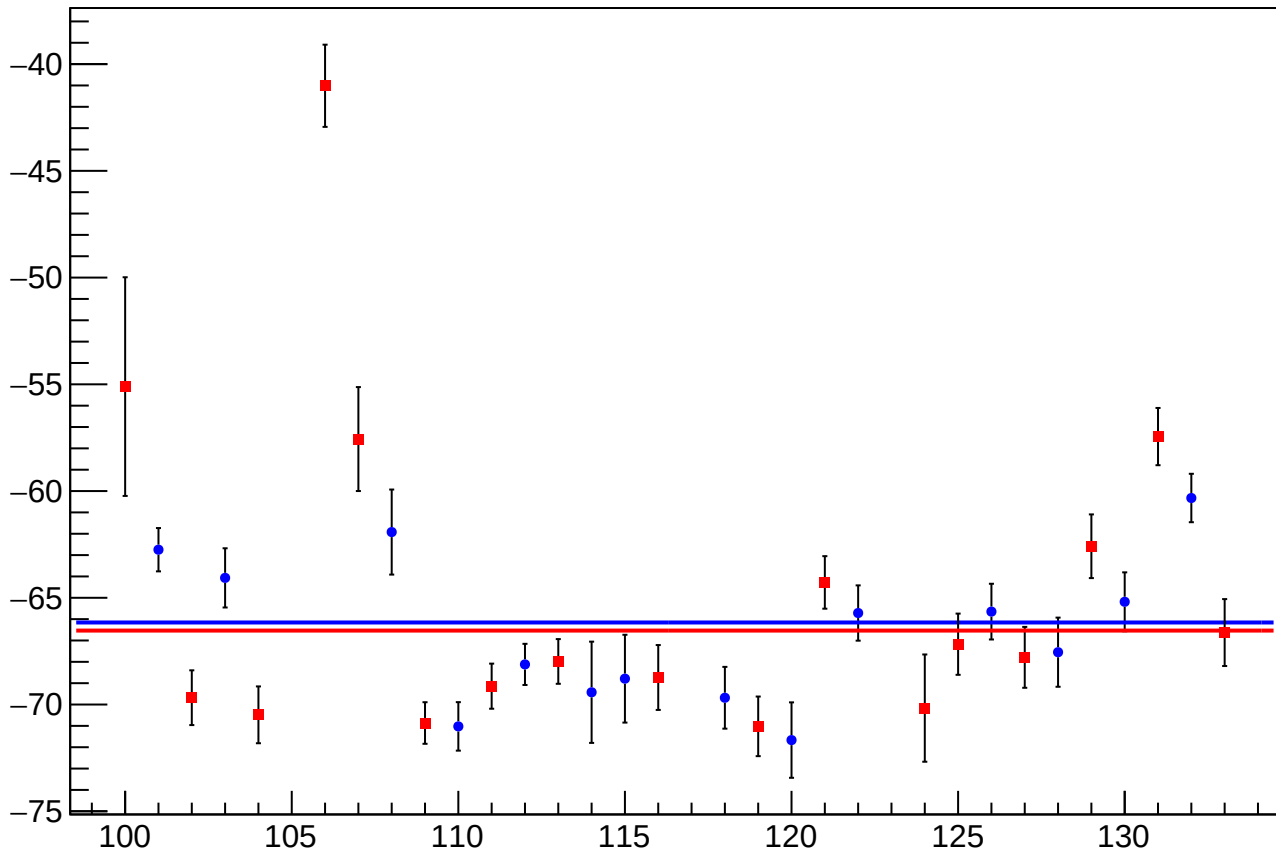
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2.791 $\pm$ 0.232  $\chi^2$ /NDF: 697.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -66.156+/-0.361  $\chi^2/\text{NDF}$ : 87.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -66.536+/-0.340  $\chi^2/\text{NDF}$ : 308.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

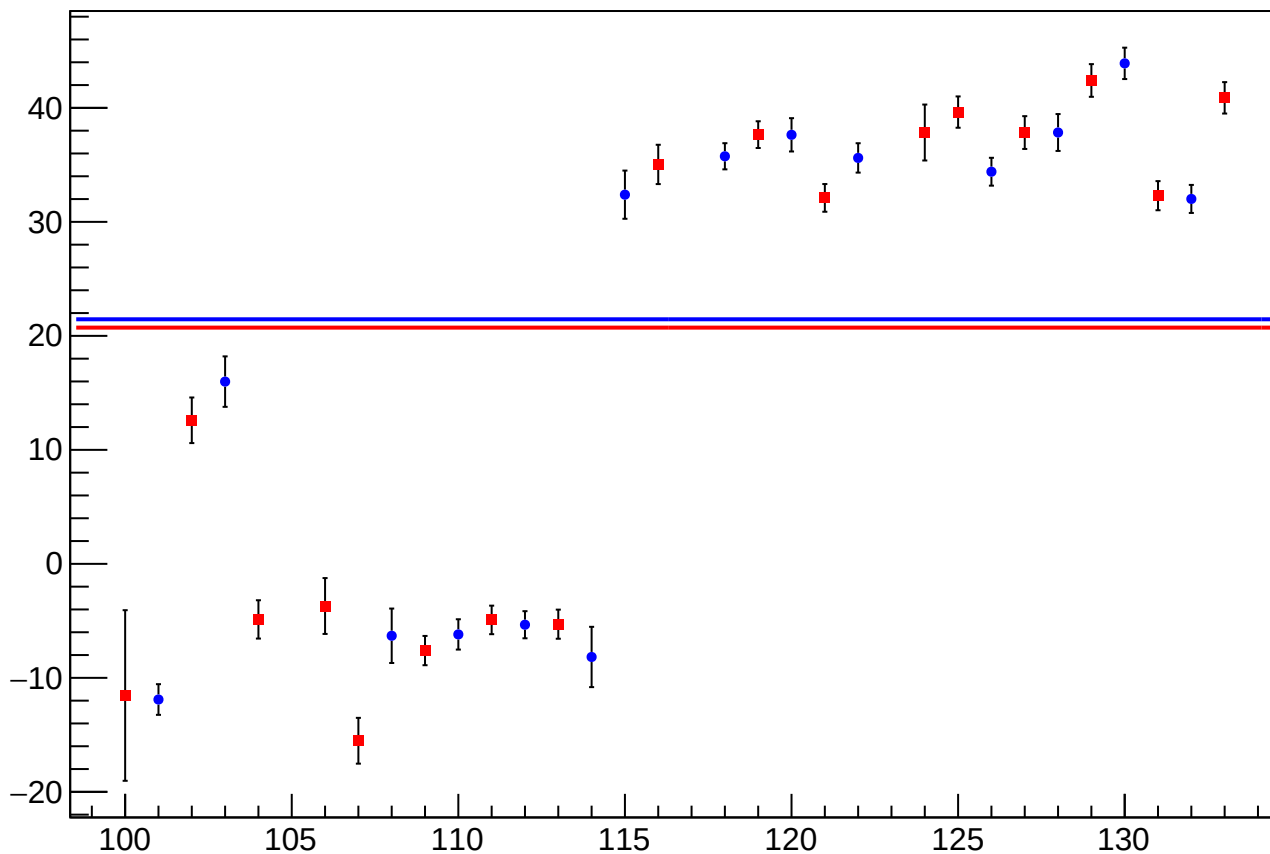
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -66.358+/-0.247  $\chi^2/\text{NDF}$ : 396.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 21.454+/-0.388  $\chi^2/\text{NDF}$ : 2800.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.724+/-0.367  $\chi^2/\text{NDF}$ : 3283.0/16

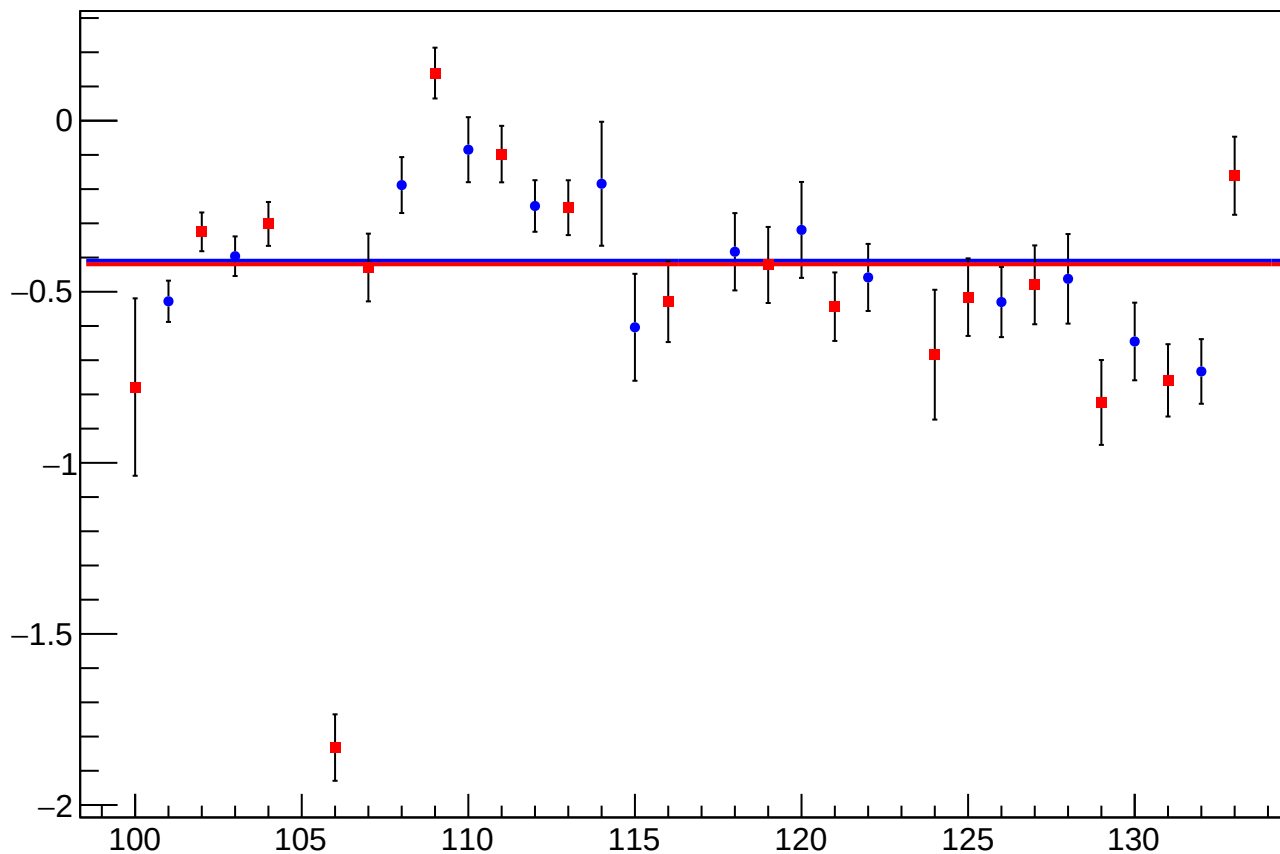
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.068+/-0.266  $\chi^2/\text{NDF}$ : 6085.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.409 \pm 0.025$   $\chi^2/\text{NDF}$ : 48.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.420 \pm 0.023$   $\chi^2/\text{NDF}$ : 327.1/16

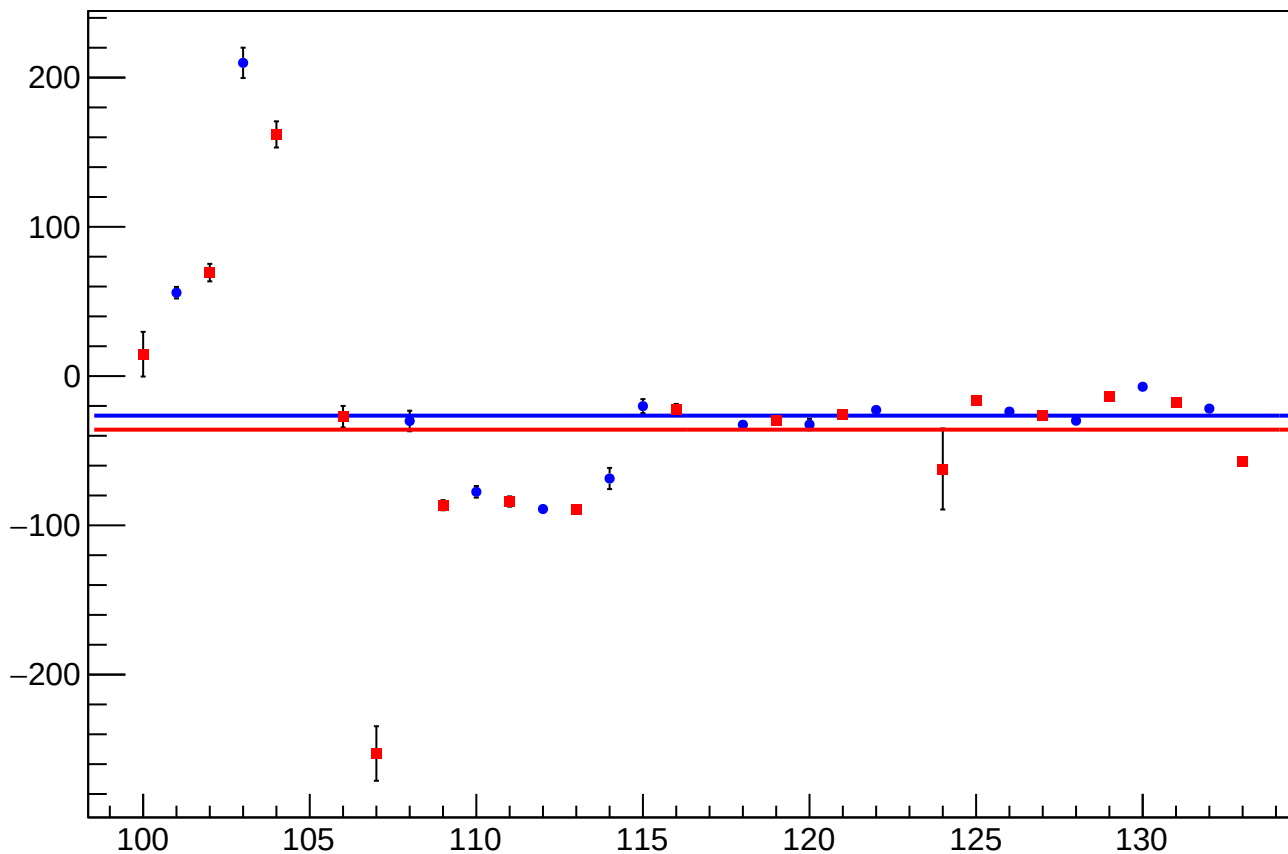
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.415 \pm 0.017$   $\chi^2/\text{NDF}$ : 376.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug



Right In:  $-26.498 \pm 0.941$   $\chi^2/\text{NDF}$ : 1663.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-35.891 \pm 0.913$   $\chi^2/\text{NDF}$ : 1881.6/16

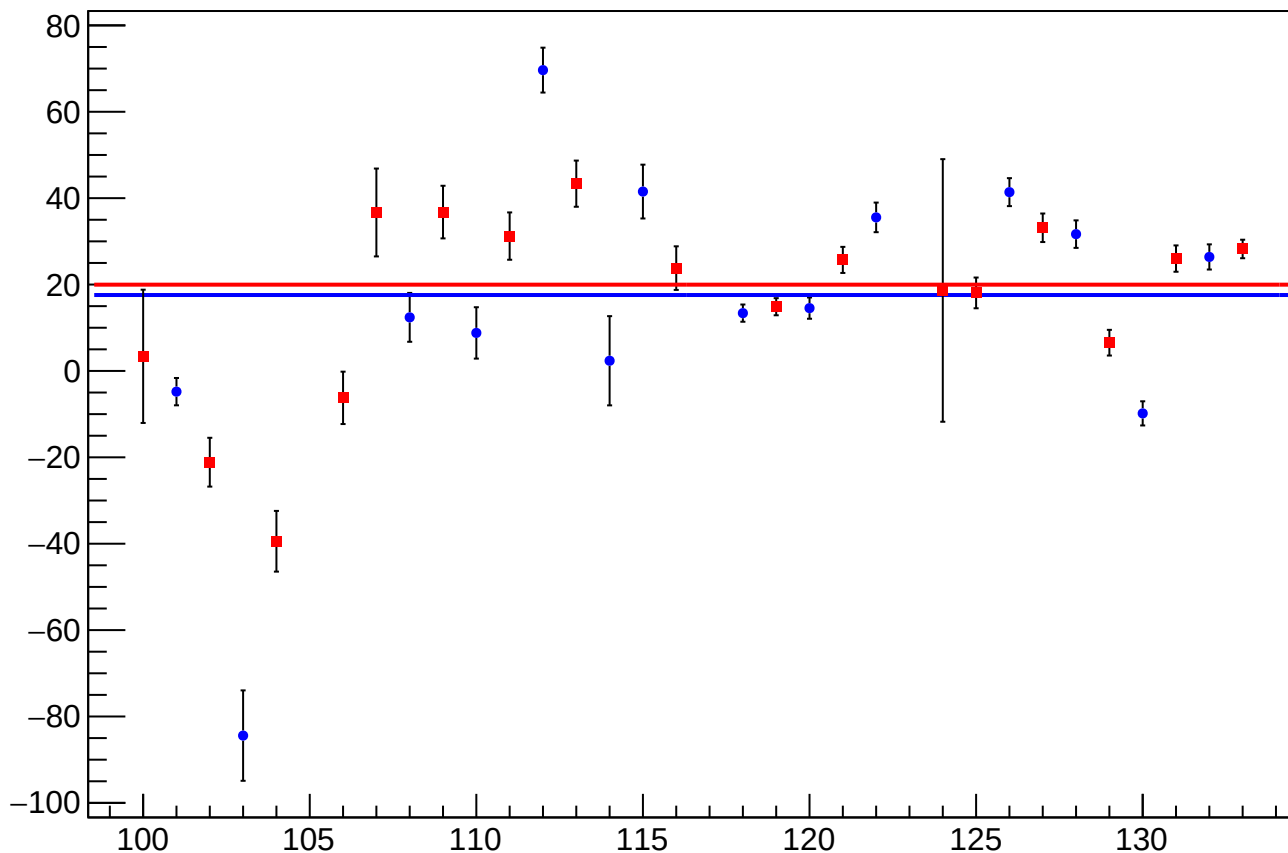
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-31.338 \pm 0.655$   $\chi^2/\text{NDF}$ : 3595.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug



Right In: 17.577 $\pm$ 0.920  $\chi^2$ /NDF: 477.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.973 $\pm$ 0.912  $\chi^2$ /NDF: 244.0/16

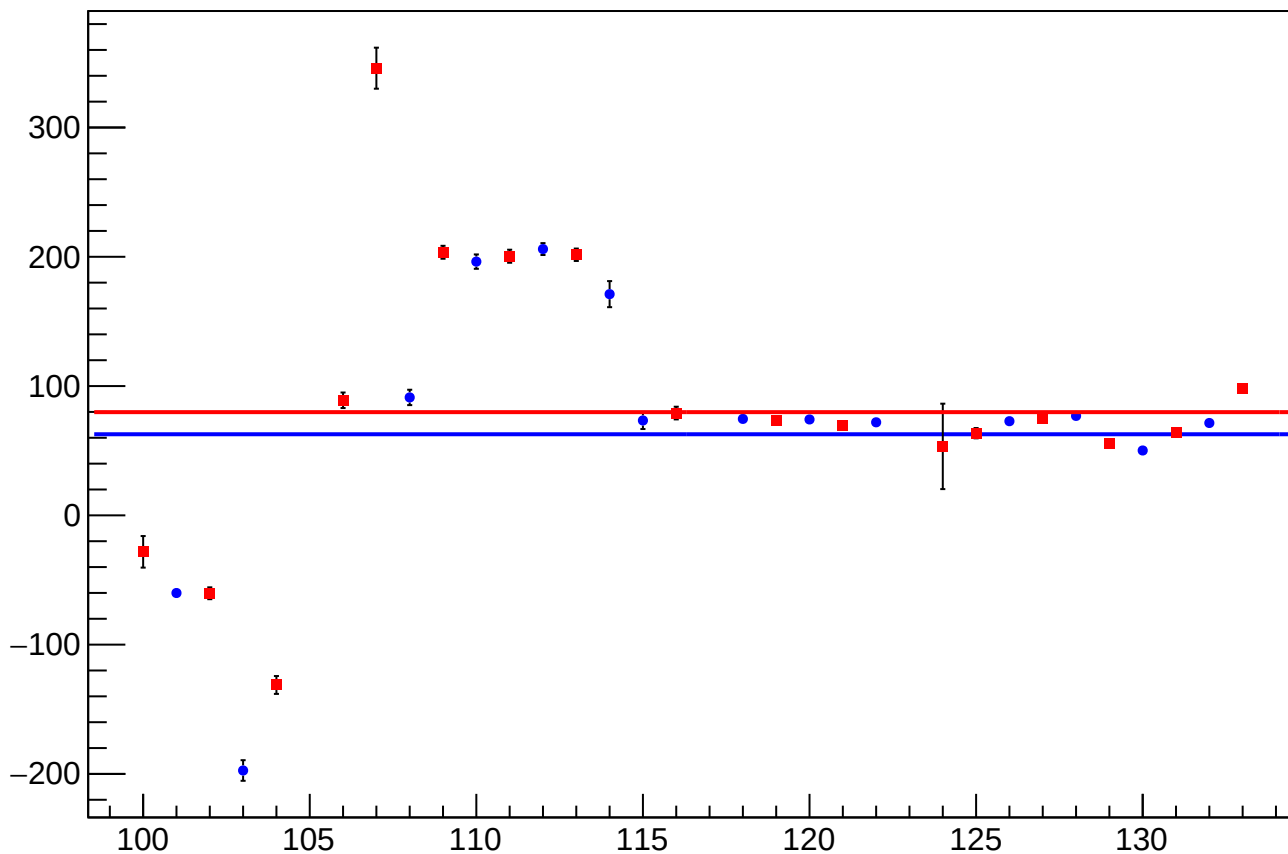
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.785 $\pm$ 0.648  $\chi^2$ /NDF: 725.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug



Right In: 62.729+/-1.063  $\chi^2$ /NDF: 4483.7/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 79.835+/-1.055  $\chi^2$ /NDF: 4192.9/16

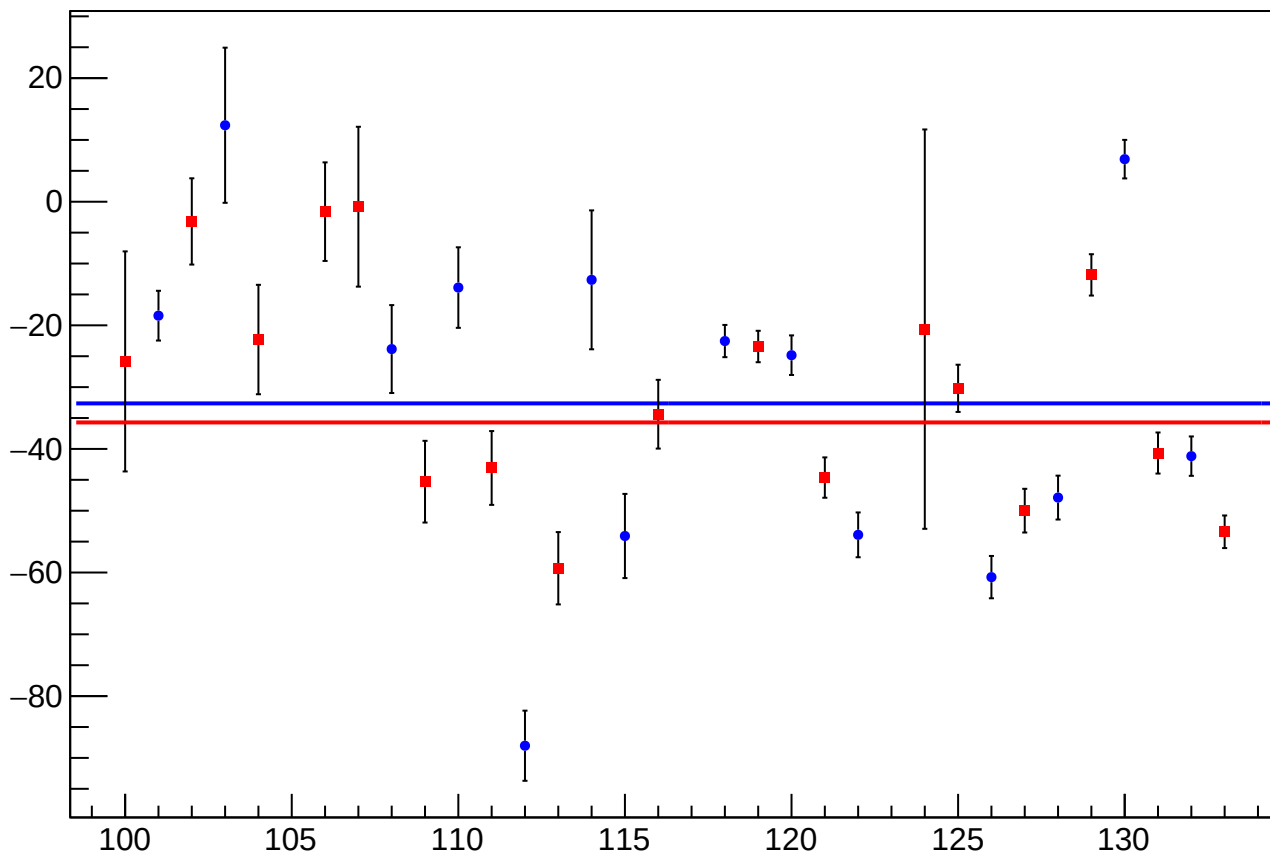
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 71.352+/-0.749  $\chi^2$ /NDF: 8807.1/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-32.634 \pm 1.079$   $\chi^2/\text{NDF}$ : 452.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-35.714 \pm 1.059$   $\chi^2/\text{NDF}$ : 217.4/16

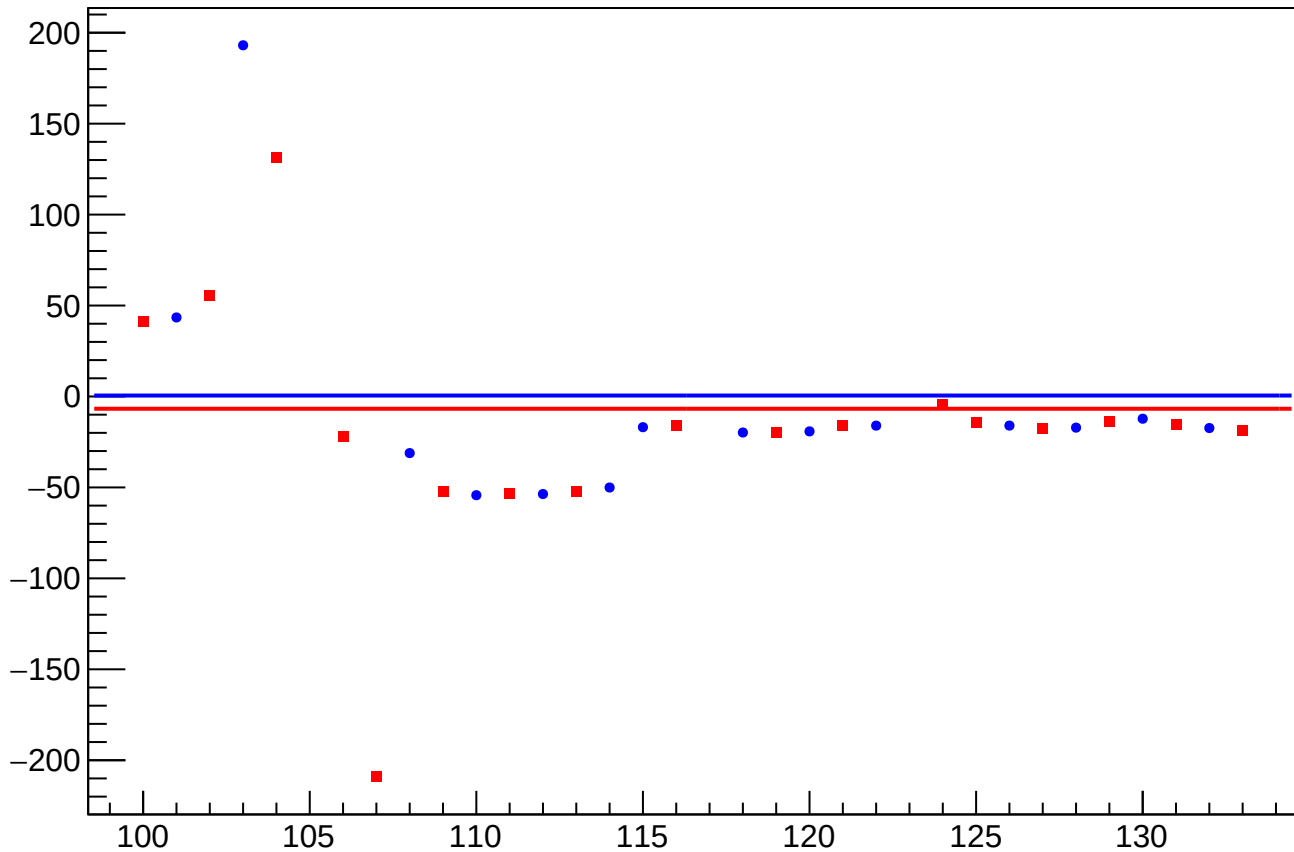
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-34.204 \pm 0.756$   $\chi^2/\text{NDF}$ : 674.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug



Right In: 0.518+/-0.076  $\chi^2/\text{NDF}$ : 473961.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.740+/-0.074  $\chi^2/\text{NDF}$ : 424950.2/16

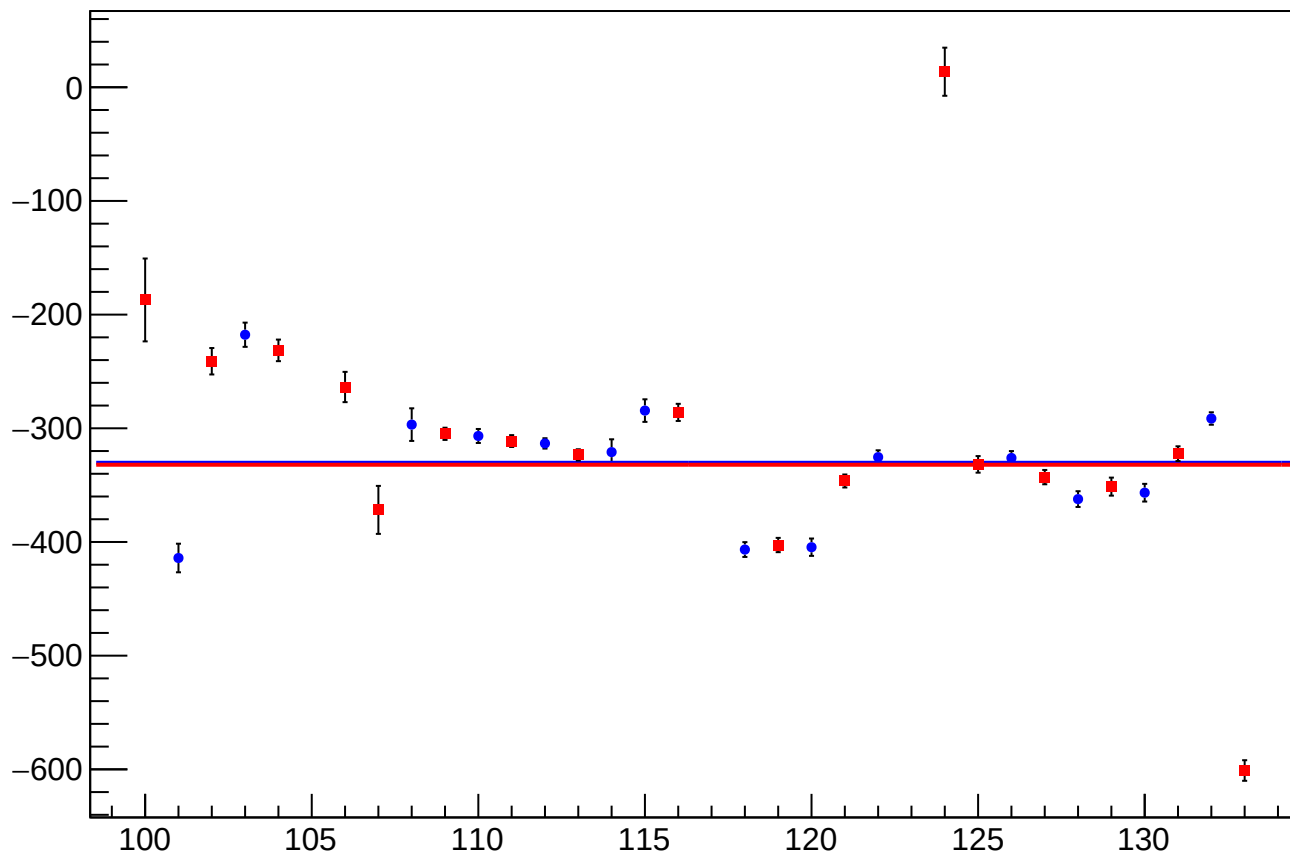
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.205+/-0.053  $\chi^2/\text{NDF}$ : 903534.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug



Right In: -330.335+/-1.893  $\chi^2$ /NDF: 528.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -332.051+/-1.791  $\chi^2$ /NDF: 1594.3/16

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

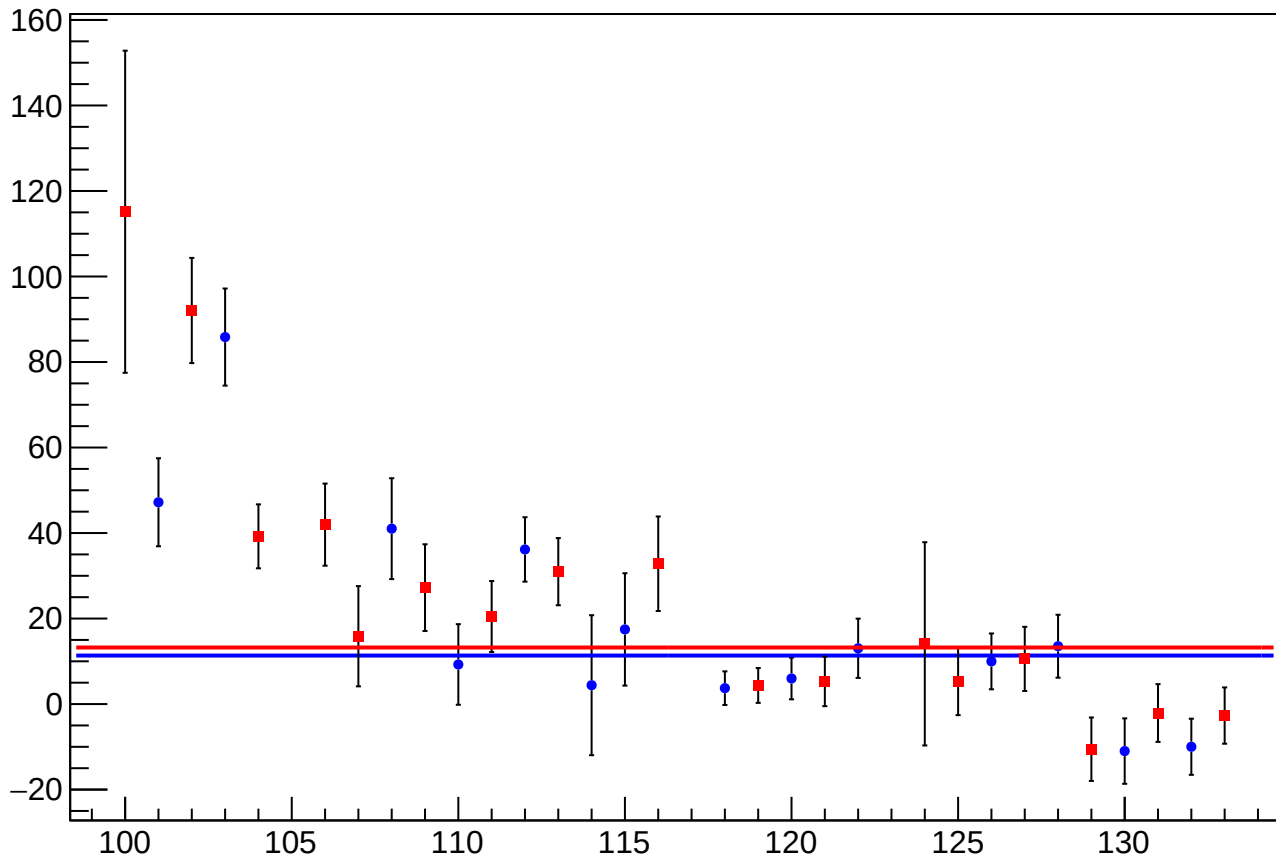
+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -331.240+/-1.301  $\chi^2$ /NDF: 2123.5/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atl2\_diff\_bpm4aY\_slope vs Slug



Right In: 11.348+/-1.915  $\chi^2/\text{NDF}$ : 97.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13.231+/-1.888  $\chi^2/\text{NDF}$ : 109.4/16

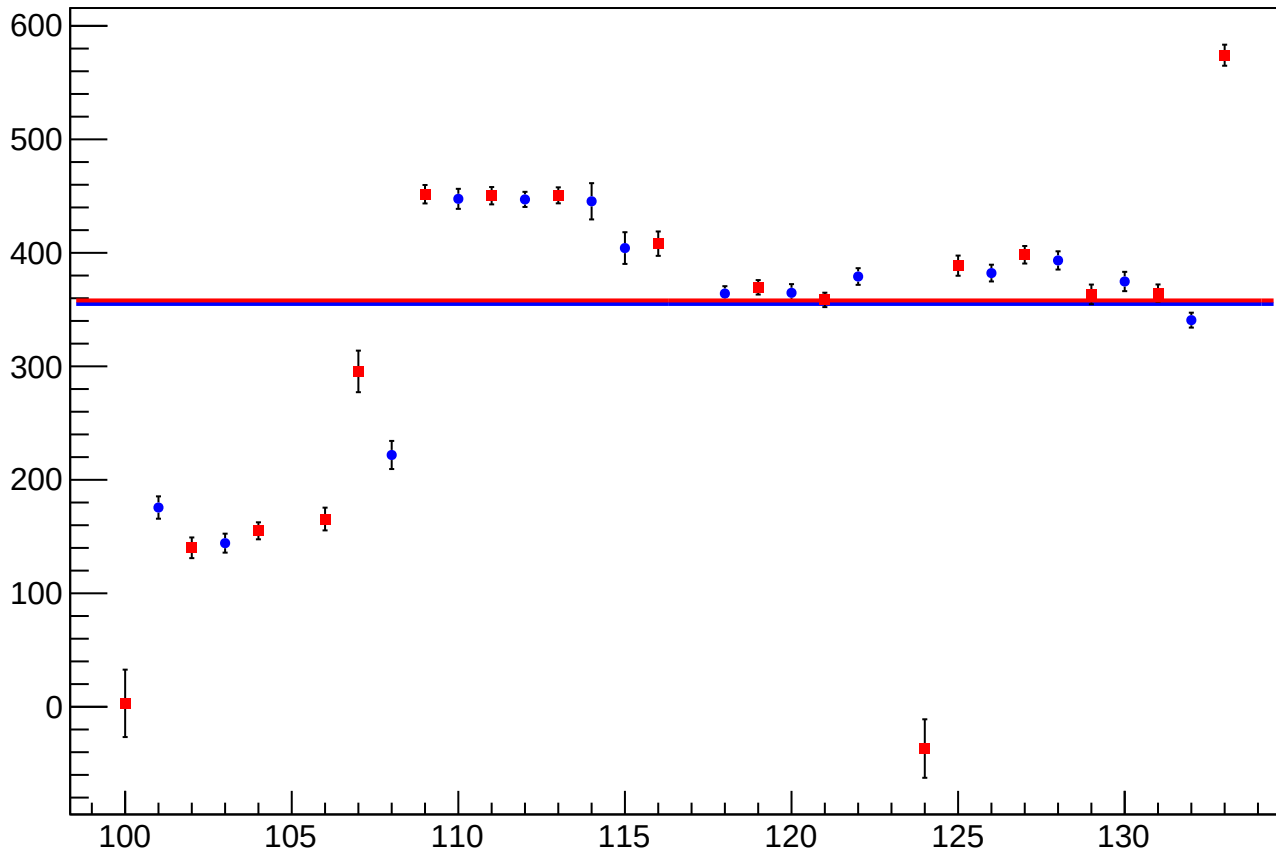
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12.303+/-1.345  $\chi^2/\text{NDF}$ : 206.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug



Right In: 354.990 $\pm$ 2.205  $\chi^2$ /NDF: 1489.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 358.052 $\pm$ 2.098  $\chi^2$ /NDF: 3123.5/16

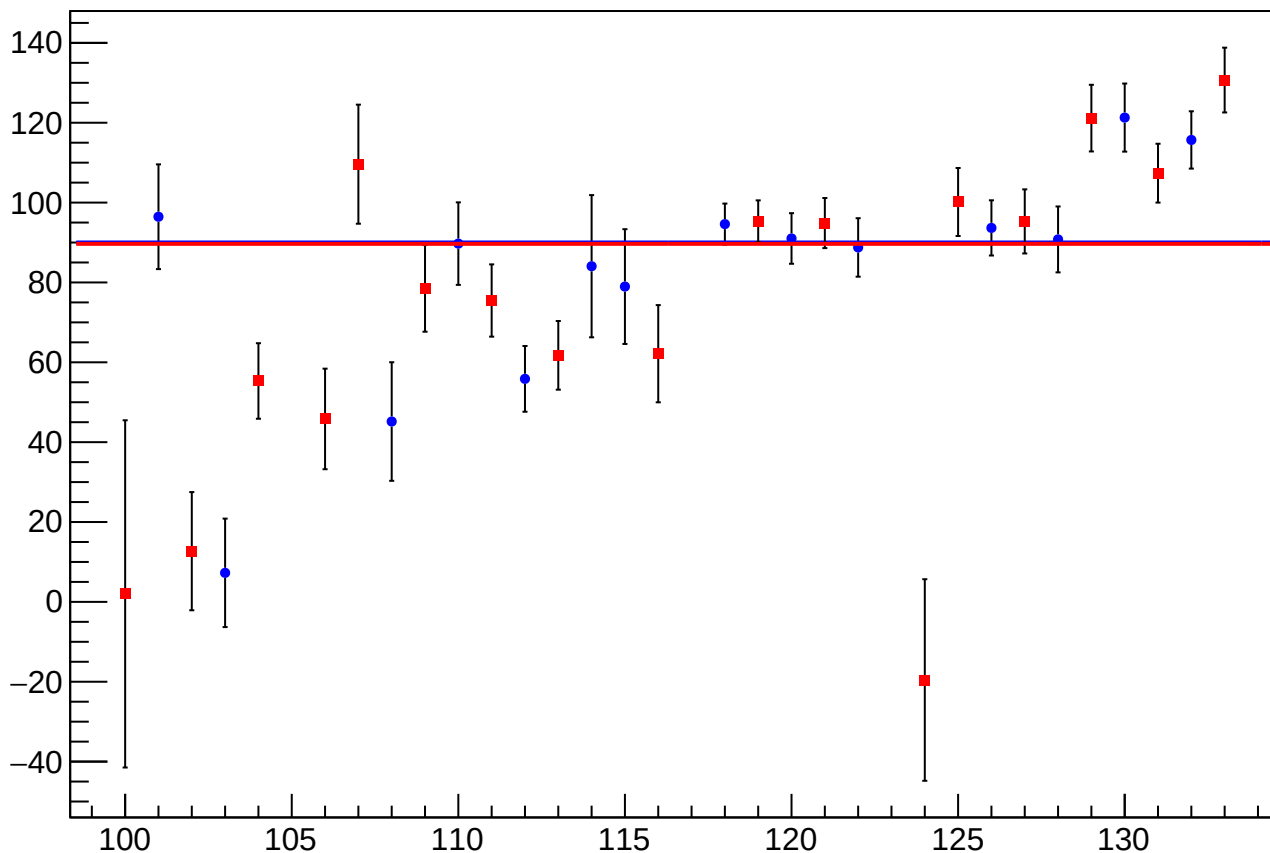
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 356.597 $\pm$ 1.520  $\chi^2$ /NDF: 4613.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug



Right In: 90.006 $\pm$ 2.247  $\chi^2$ /NDF: 91.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 89.671 $\pm$ 2.189  $\chi^2$ /NDF: 145.5/16

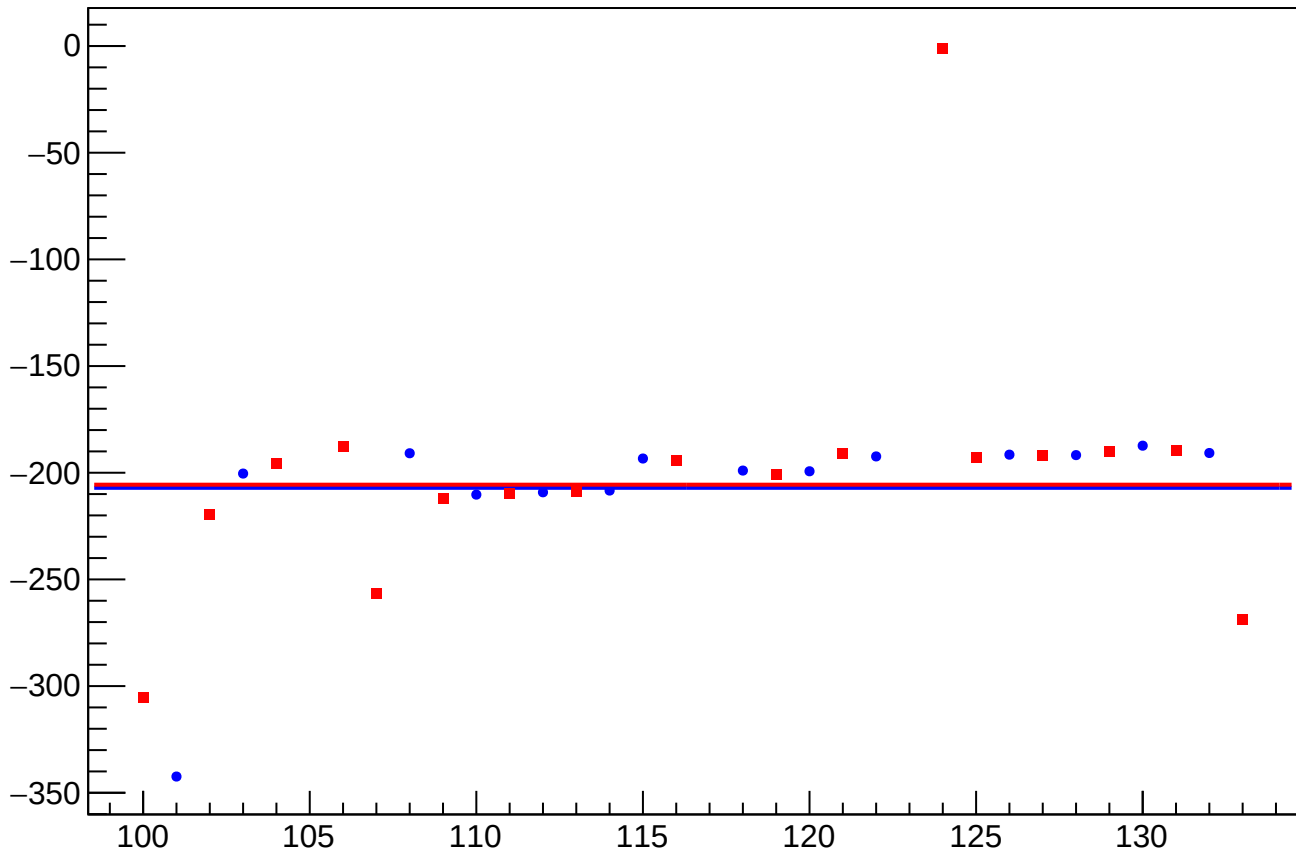
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 89.834 $\pm$ 1.568  $\chi^2$ /NDF: 237.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug



Right In:  $-207.063 \pm 0.153$   $\chi^2/\text{NDF}$ : 58549.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-205.600 \pm 0.142$   $\chi^2/\text{NDF}$ : 35276.6/16

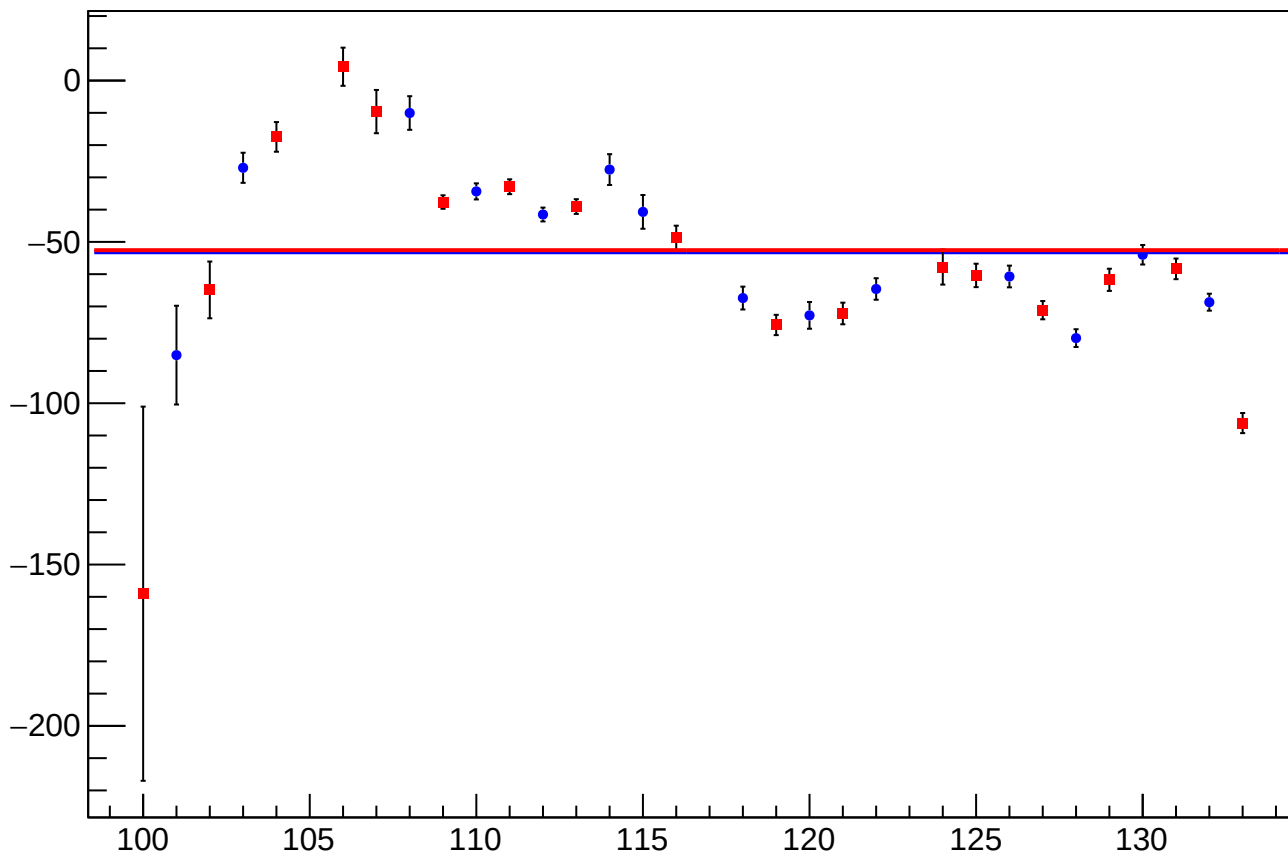
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-206.277 \pm 0.104$   $\chi^2/\text{NDF}$ : 93875.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug



Right In: -53.202 $\pm$ 0.895  $\chi^2$ /NDF: 409.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -52.566 $\pm$ 0.816  $\chi^2$ /NDF: 800.2/16

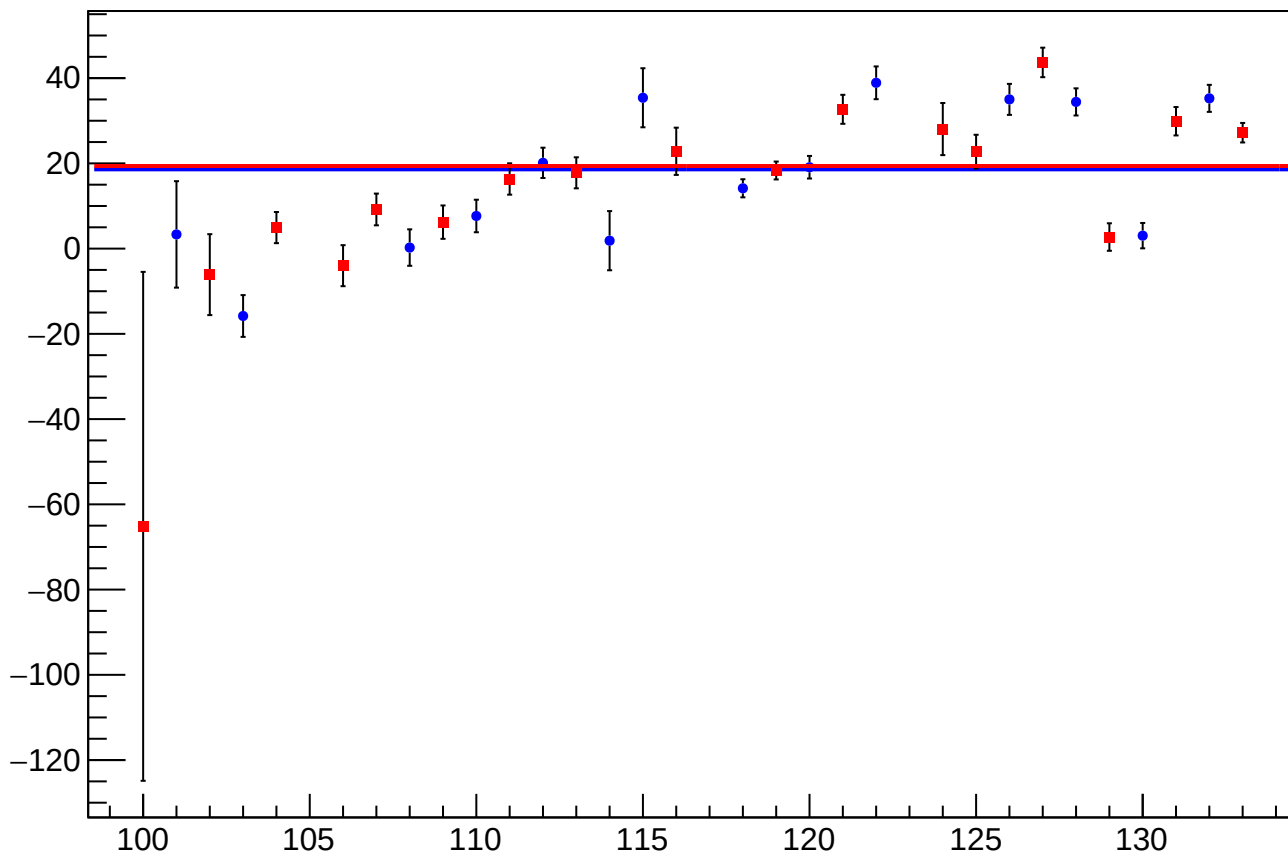
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -52.855 $\pm$ 0.603  $\chi^2$ /NDF: 1209.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug



Right In: 18.598+/-0.949  $\chi^2$ /NDF: 221.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.377+/-0.873  $\chi^2$ /NDF: 184.3/16

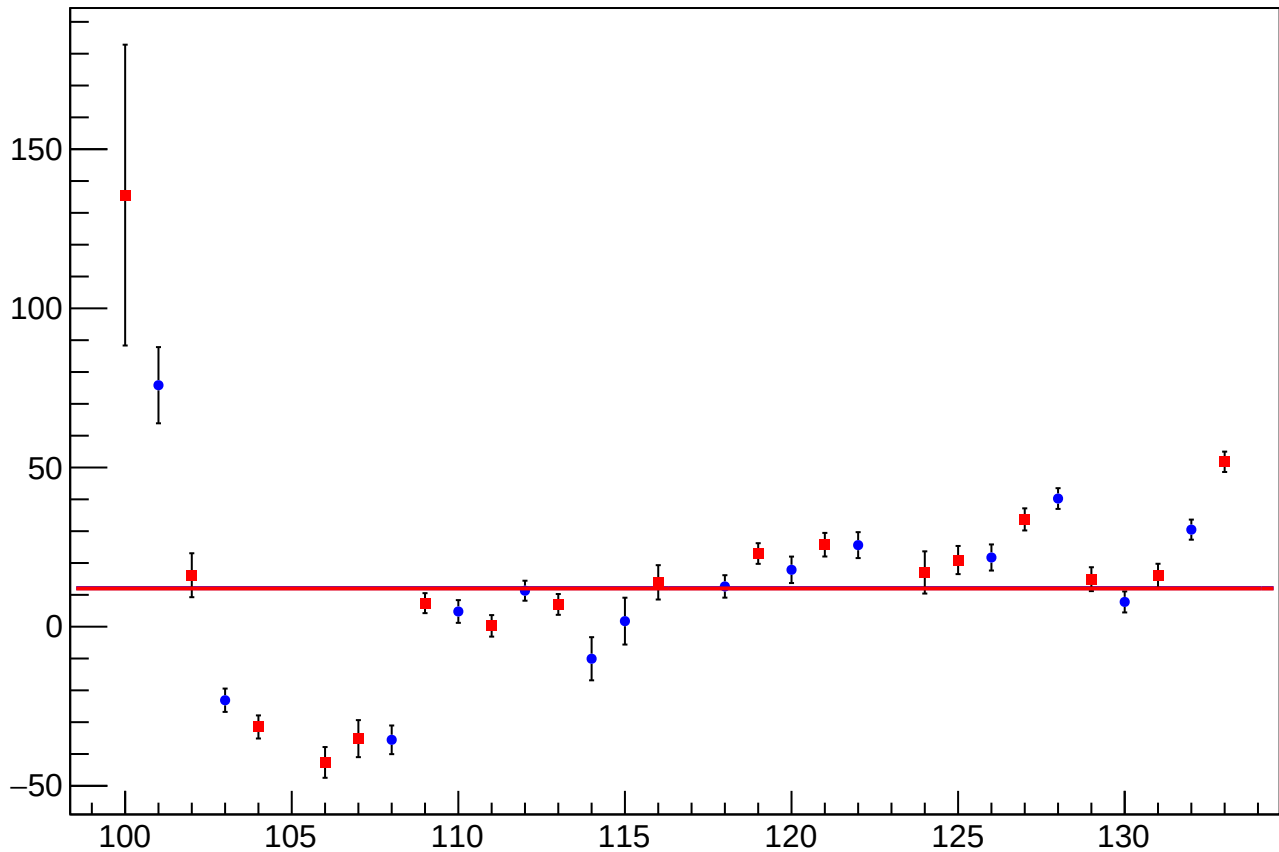
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 19.020+/-0.642  $\chi^2$ /NDF: 406.3/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug



Right In: 12.107 $\pm$ 1.057  $\chi^2$ /NDF: 378.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 12.000 $\pm$ 0.976  $\chi^2$ /NDF: 586.8/16

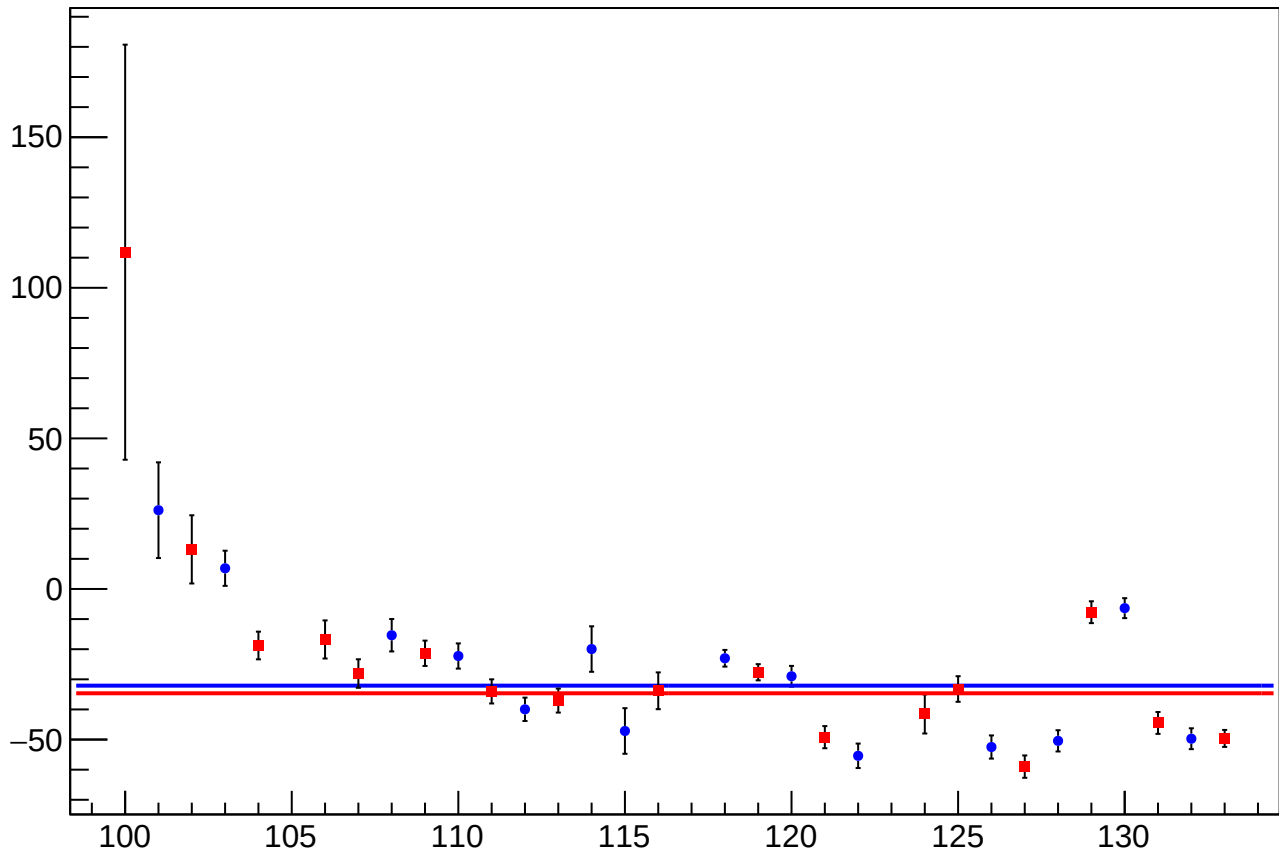
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12.050 $\pm$ 0.717  $\chi^2$ /NDF: 965.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-32.101 \pm 1.102$   $\chi^2/\text{NDF}$ : 269.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-34.638 \pm 1.012$   $\chi^2/\text{NDF}$ : 212.0/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

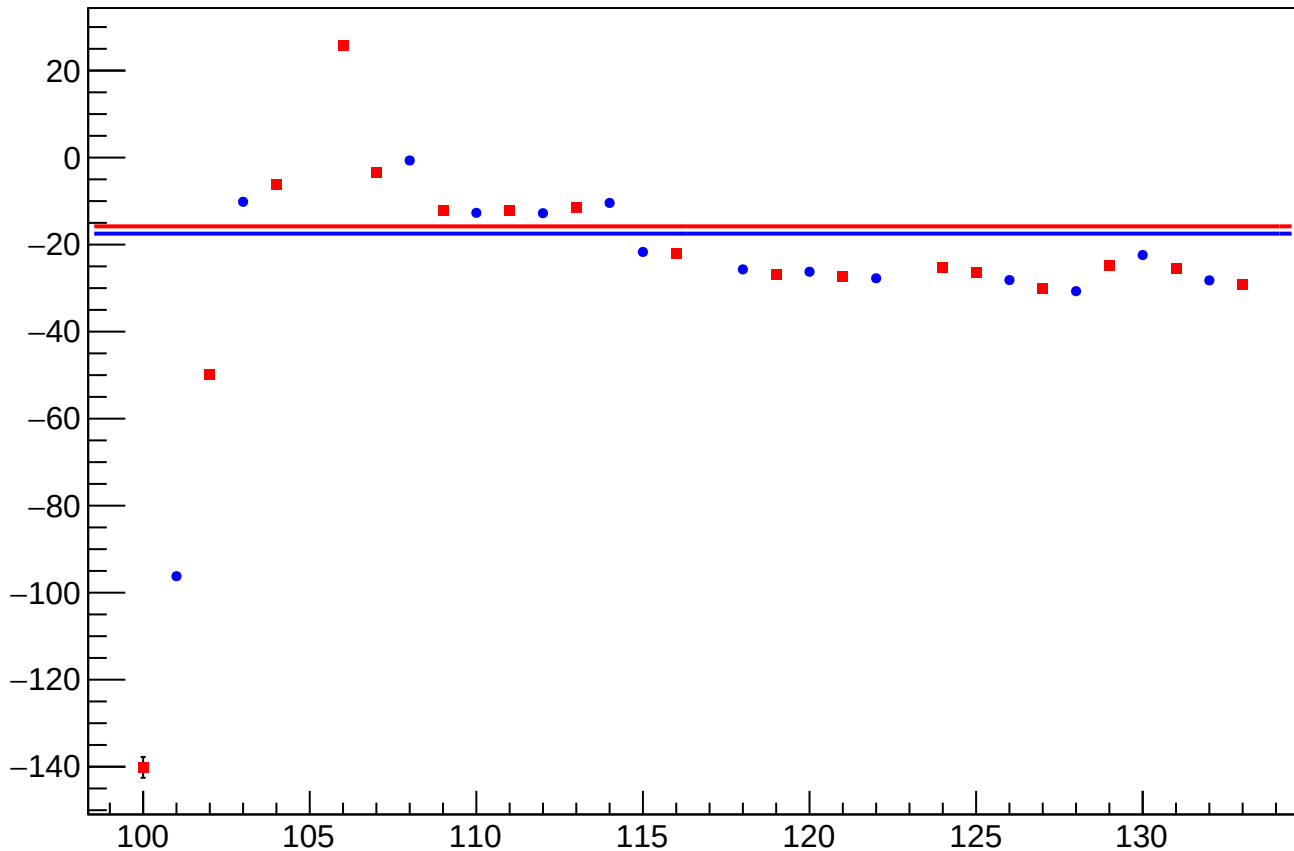
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-33.477 \pm 0.746$   $\chi^2/\text{NDF}$ : 484.4/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug



Right In: -17.478+/-0.072  $\chi^2/\text{NDF}$ : 32142.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.801+/-0.066  $\chi^2/\text{NDF}$ : 66878.1/16

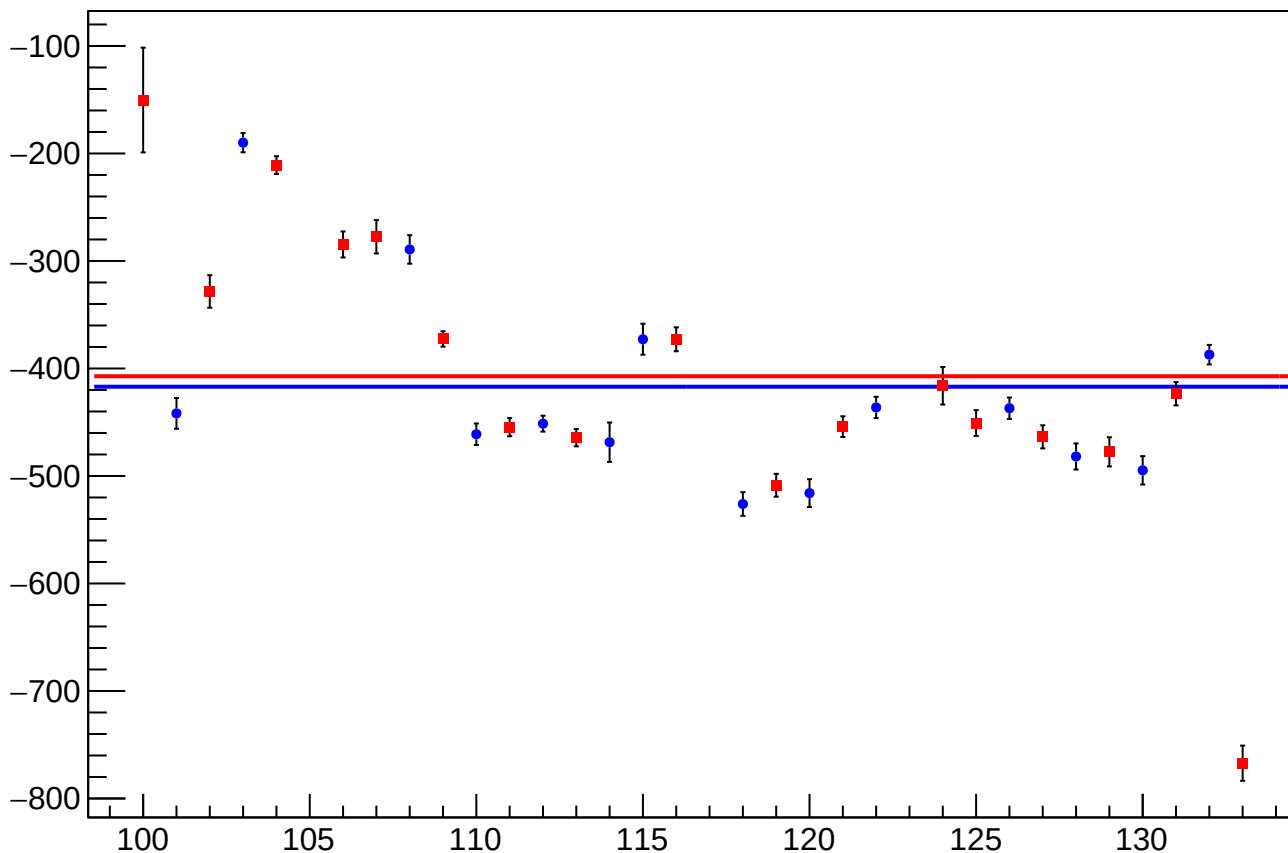
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -16.571+/-0.049  $\chi^2/\text{NDF}$ : 99314.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug



Right In: -416.977+/-2.909  $\chi^2/\text{NDF}$ : 1032.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -407.227+/-2.639  $\chi^2/\text{NDF}$ : 1571.6/16

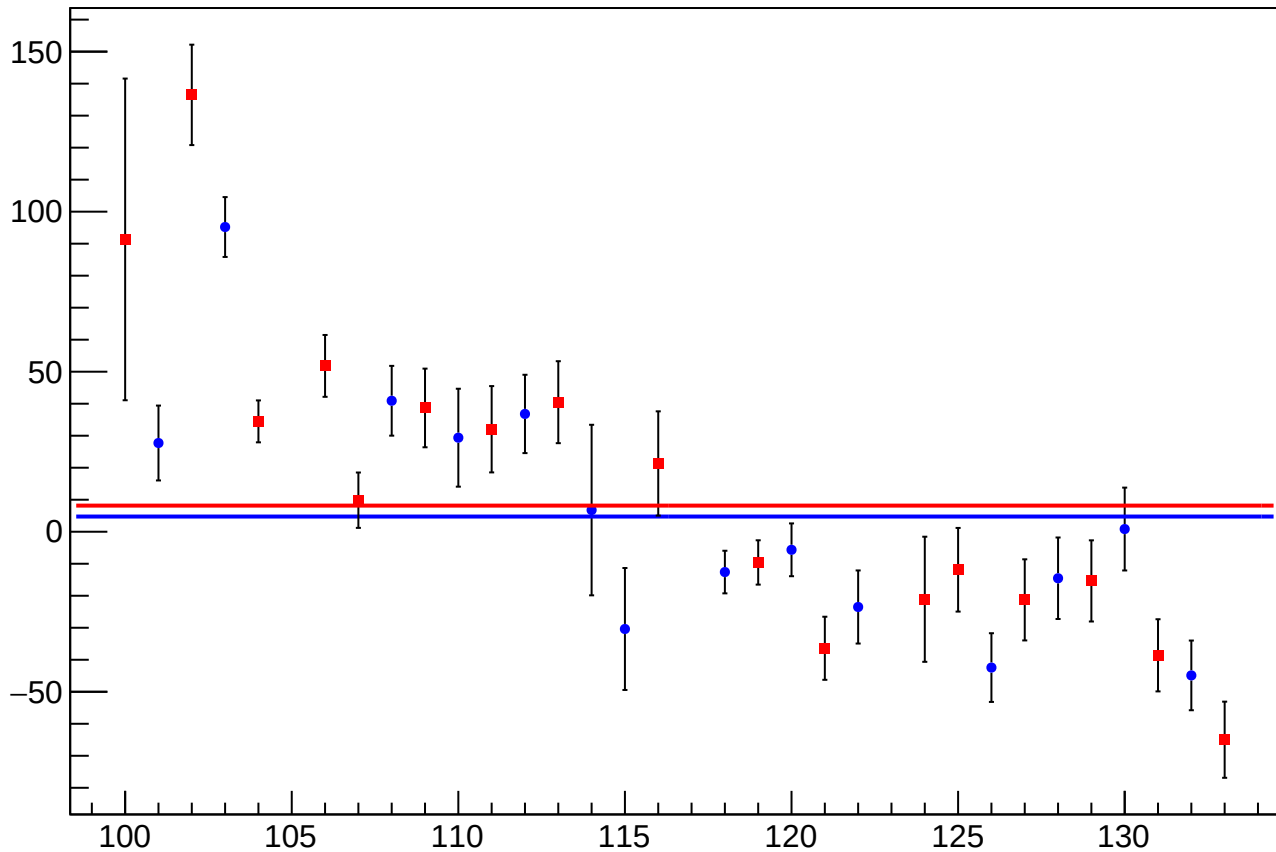
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -411.628+/-1.954  $\chi^2/\text{NDF}$ : 2609.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr2\_diff\_bpm4aY\_slope vs Slug



Right In: 4.748 $\pm$ 2.930  $\chi^2$ /NDF: 178.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8.162 $\pm$ 2.665  $\chi^2$ /NDF: 218.1/16

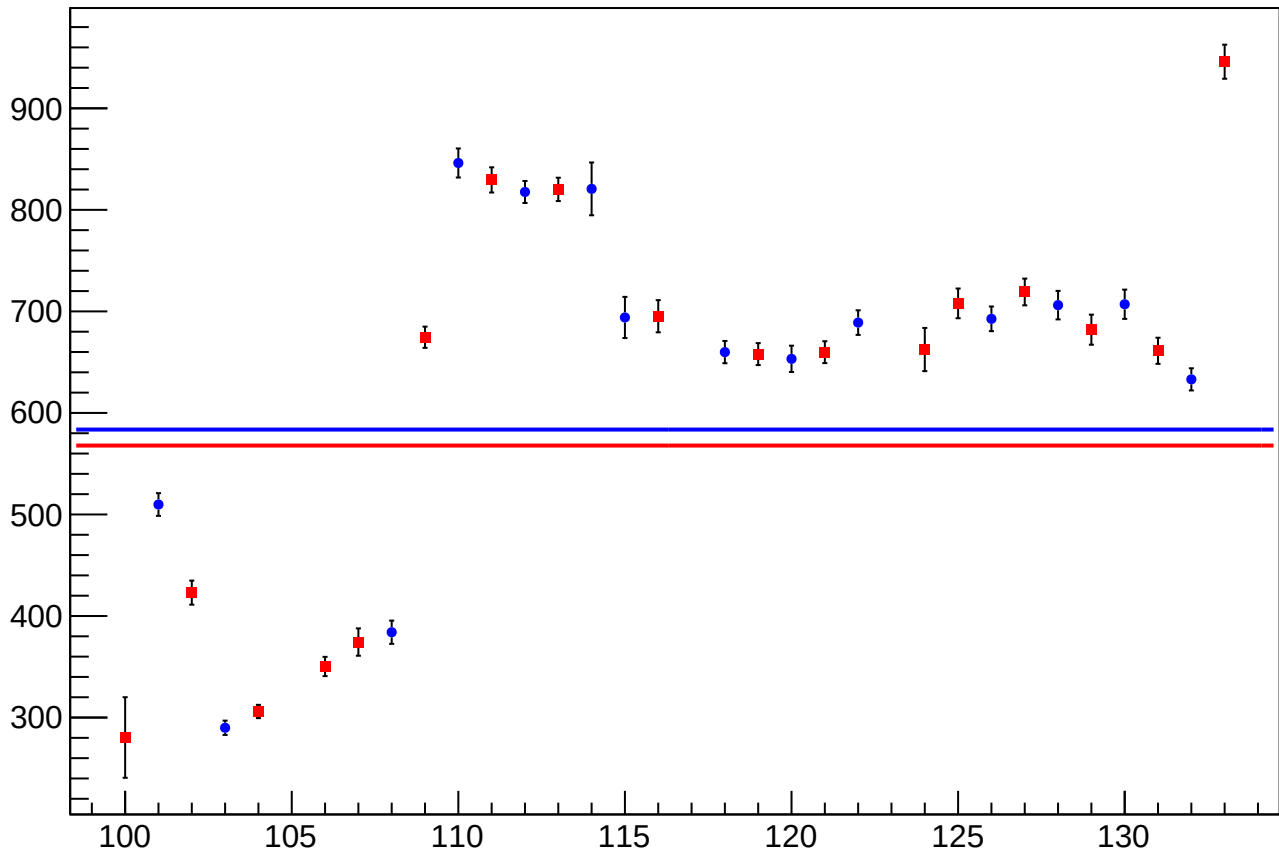
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.617 $\pm$ 1.971  $\chi^2$ /NDF: 397.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug



Right In: 583.621+/-3.175  $\chi^2/\text{NDF}$ : 3404.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 567.872+/-2.900  $\chi^2/\text{NDF}$ : 4637.0/16

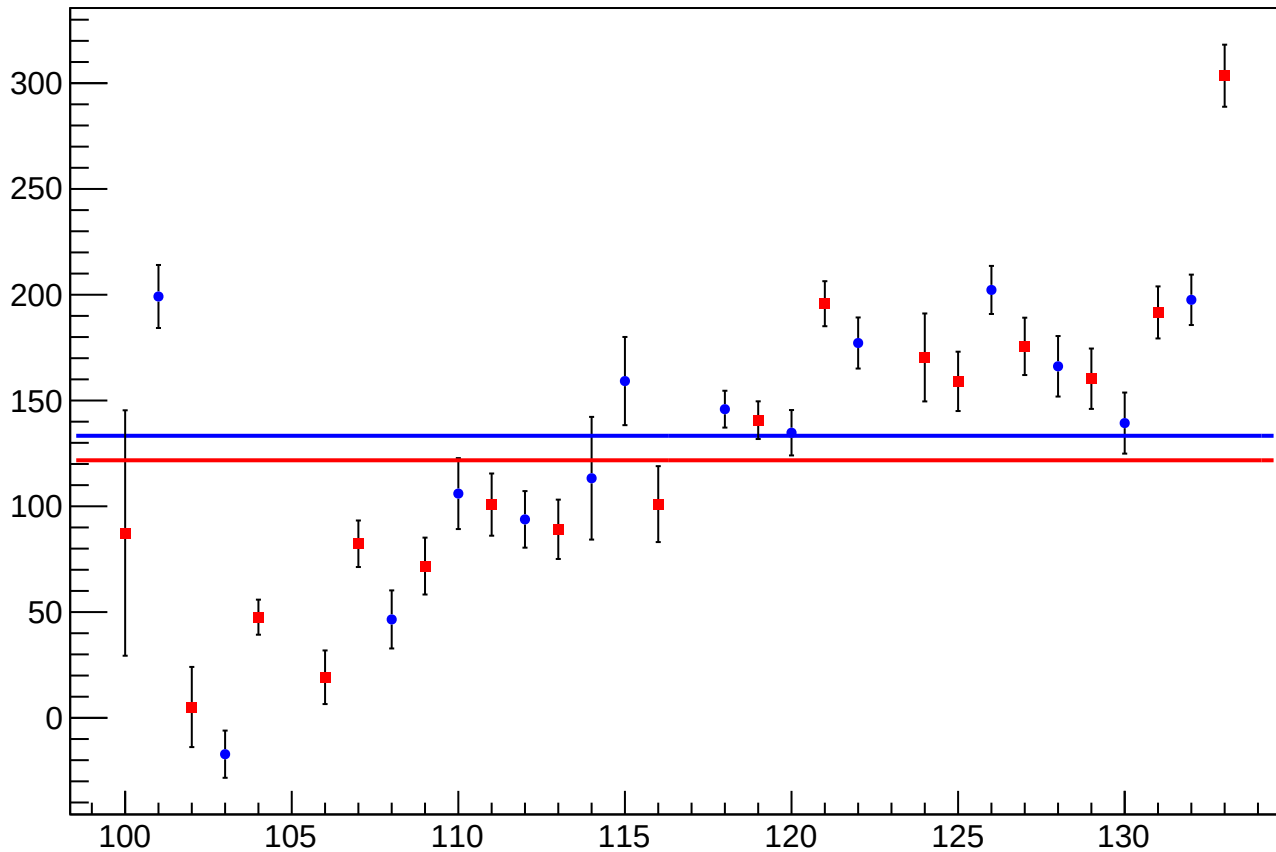
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 575.033+/-2.141  $\chi^2/\text{NDF}$ : 8054.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug



Right In: 133.334+/-3.456  $\chi^2/\text{NDF}$ : 341.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 121.748+/-3.148  $\chi^2/\text{NDF}$ : 493.6/16

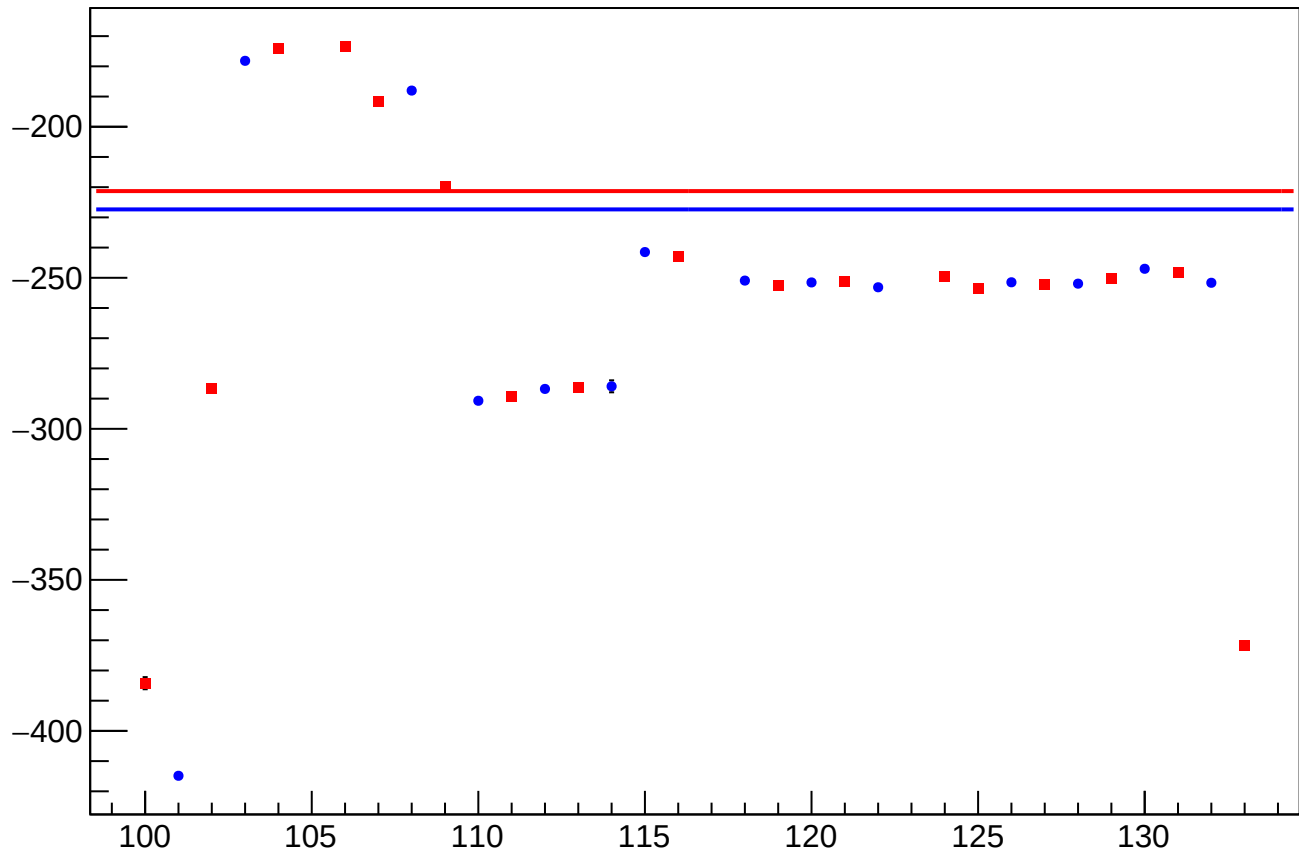
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 127.000+/-2.327  $\chi^2/\text{NDF}$ : 841.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug



Right In: -227.360 $\pm$ 0.188  $\chi^2$ /NDF: 126652.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -221.299 $\pm$ 0.174  $\chi^2$ /NDF: 88202.7/16

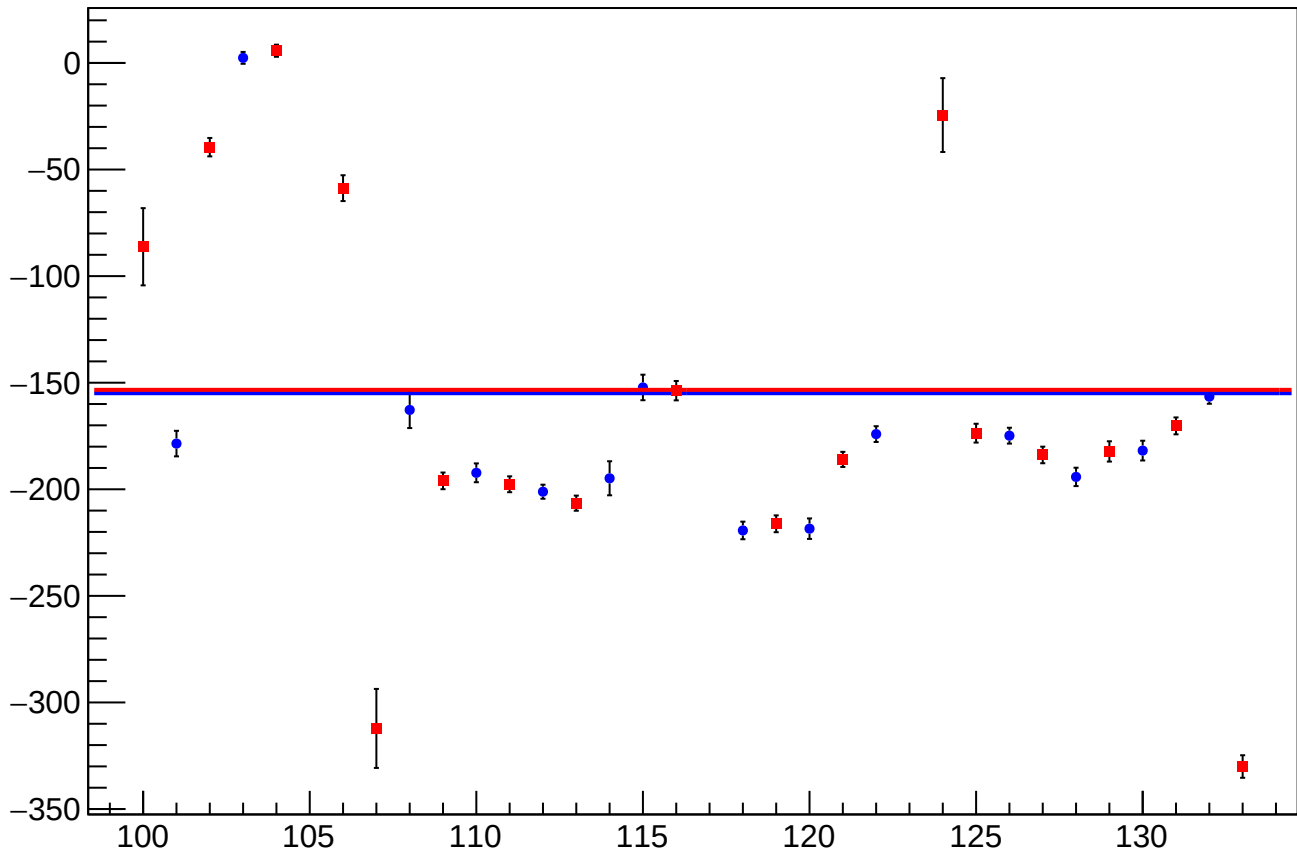
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -224.094 $\pm$ 0.128  $\chi^2$ /NDF: 215416.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-154.940 \pm 1.121$   $\chi^2/\text{NDF}$ : 4104.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-153.351 \pm 1.064$   $\chi^2/\text{NDF}$ : 6297.4/16

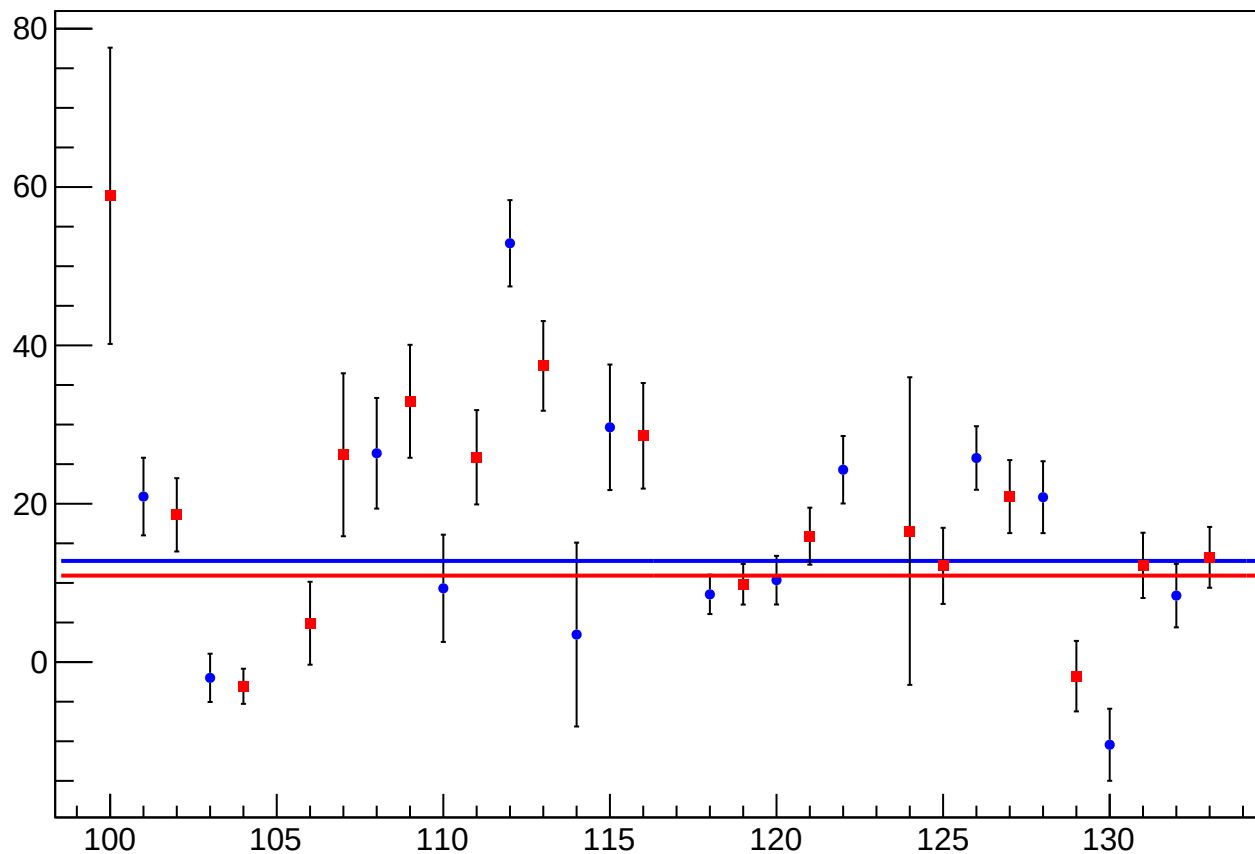
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-154.104 \pm 0.772$   $\chi^2/\text{NDF}$ : 10402.6/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 12.778+/-1.123  $\chi^2/\text{NDF}$ : 141.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.924+/-1.054  $\chi^2/\text{NDF}$ : 112.8/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

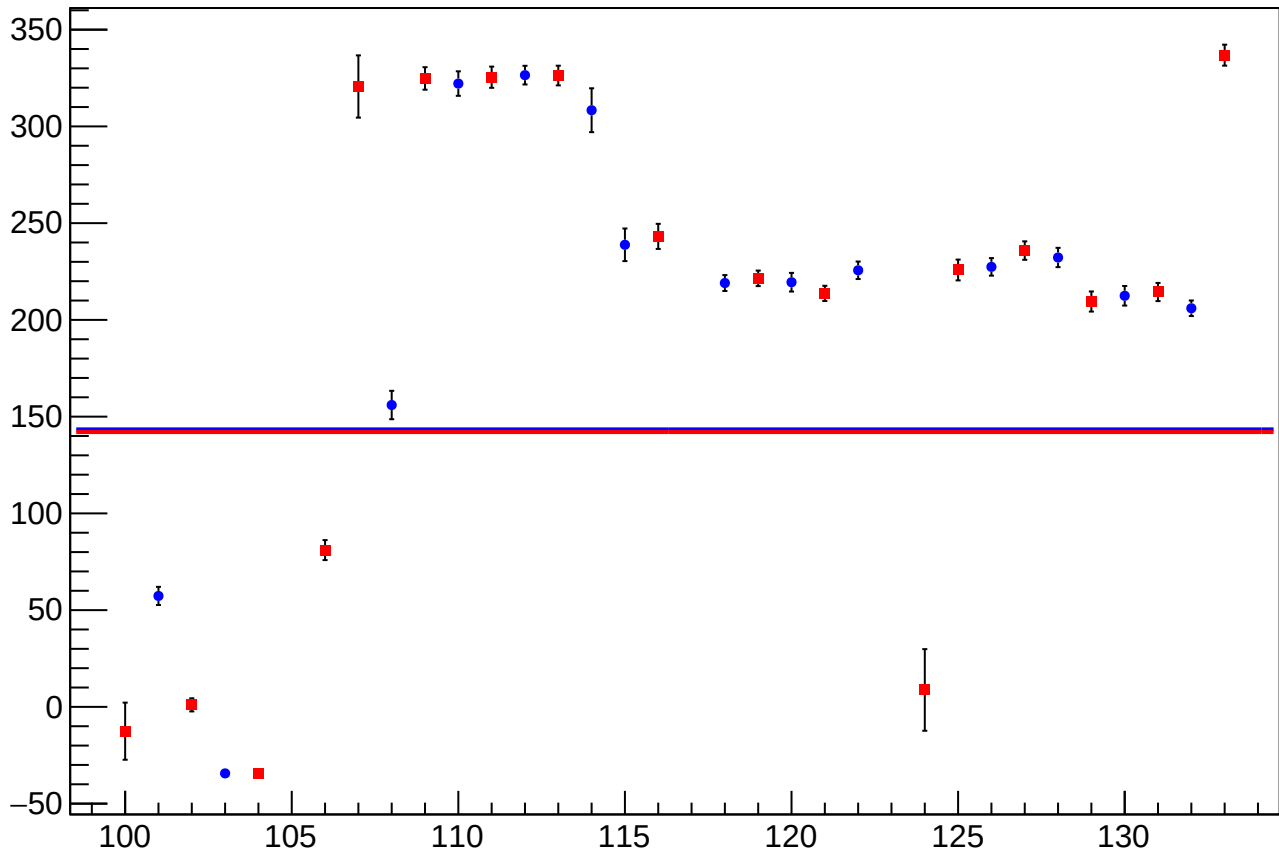
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11.792+/-0.769  $\chi^2/\text{NDF}$ : 255.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 143.410+/-1.191  $\chi^2/\text{NDF}$ : 11552.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 142.029+/-1.131  $\chi^2/\text{NDF}$ : 15063.3/16

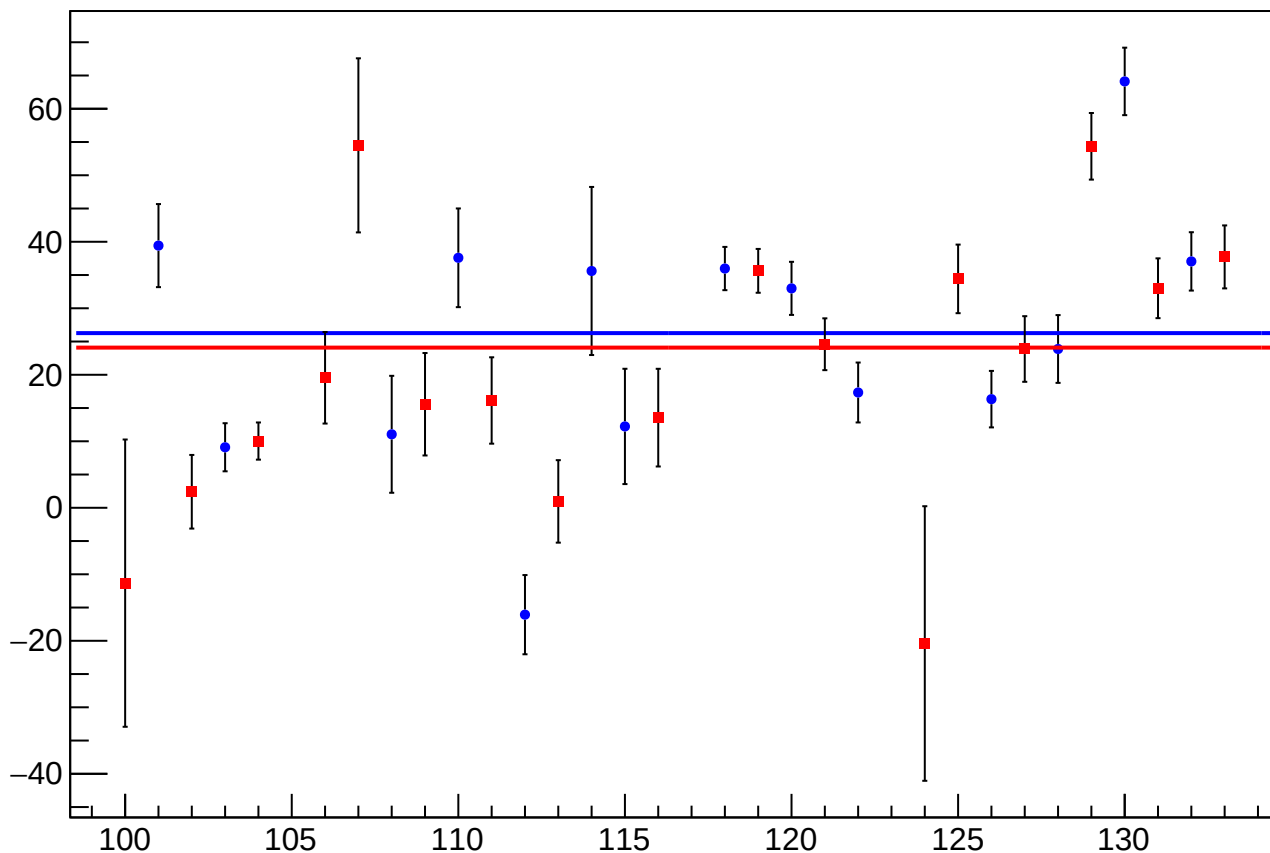
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 142.684+/-0.820  $\chi^2/\text{NDF}$ : 26616.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 26.265 $\pm$ 1.322  $\chi^2$ /NDF: 169.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 24.085 $\pm$ 1.243  $\chi^2$ /NDF: 137.5/16

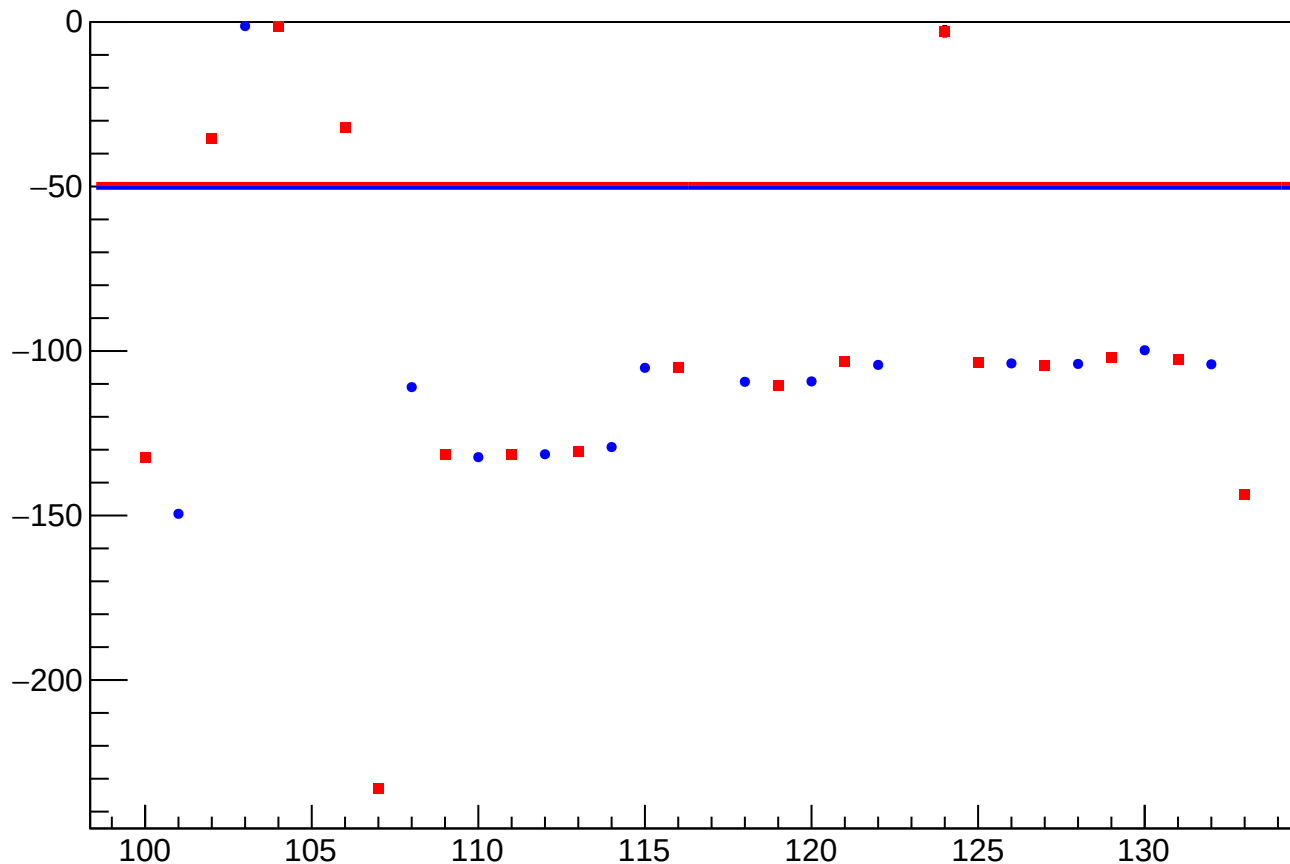
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.108 $\pm$ 0.905  $\chi^2$ /NDF: 308.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -50.382+/-0.068  $\chi^2/\text{NDF}$ : 707320.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -49.209+/-0.065  $\chi^2/\text{NDF}$ : 640530.0/16

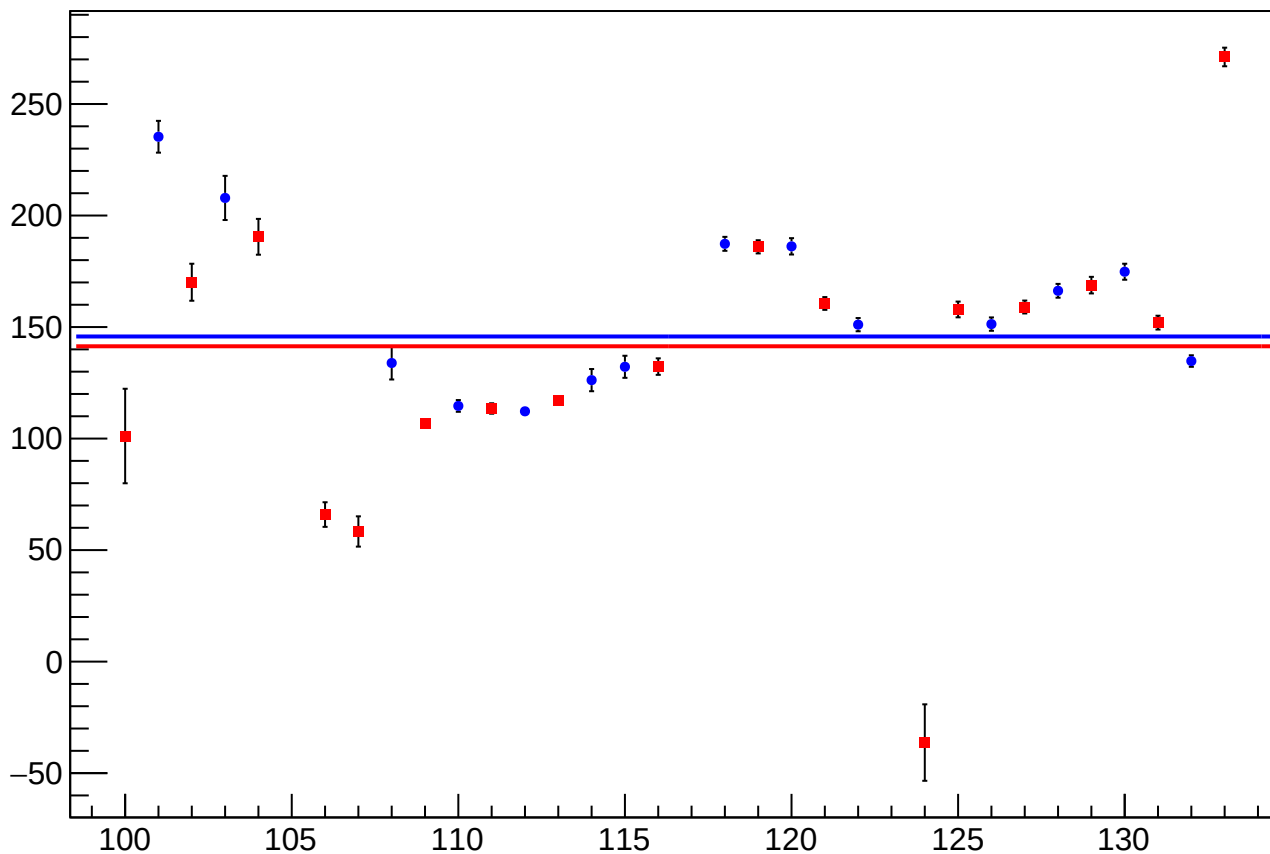
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -49.762+/-0.047  $\chi^2/\text{NDF}$ : 1348005.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 145.773 $\pm$ 0.901  $\chi^2$ /NDF: 1048.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 141.379 $\pm$ 0.840  $\chi^2$ /NDF: 2370.9/16

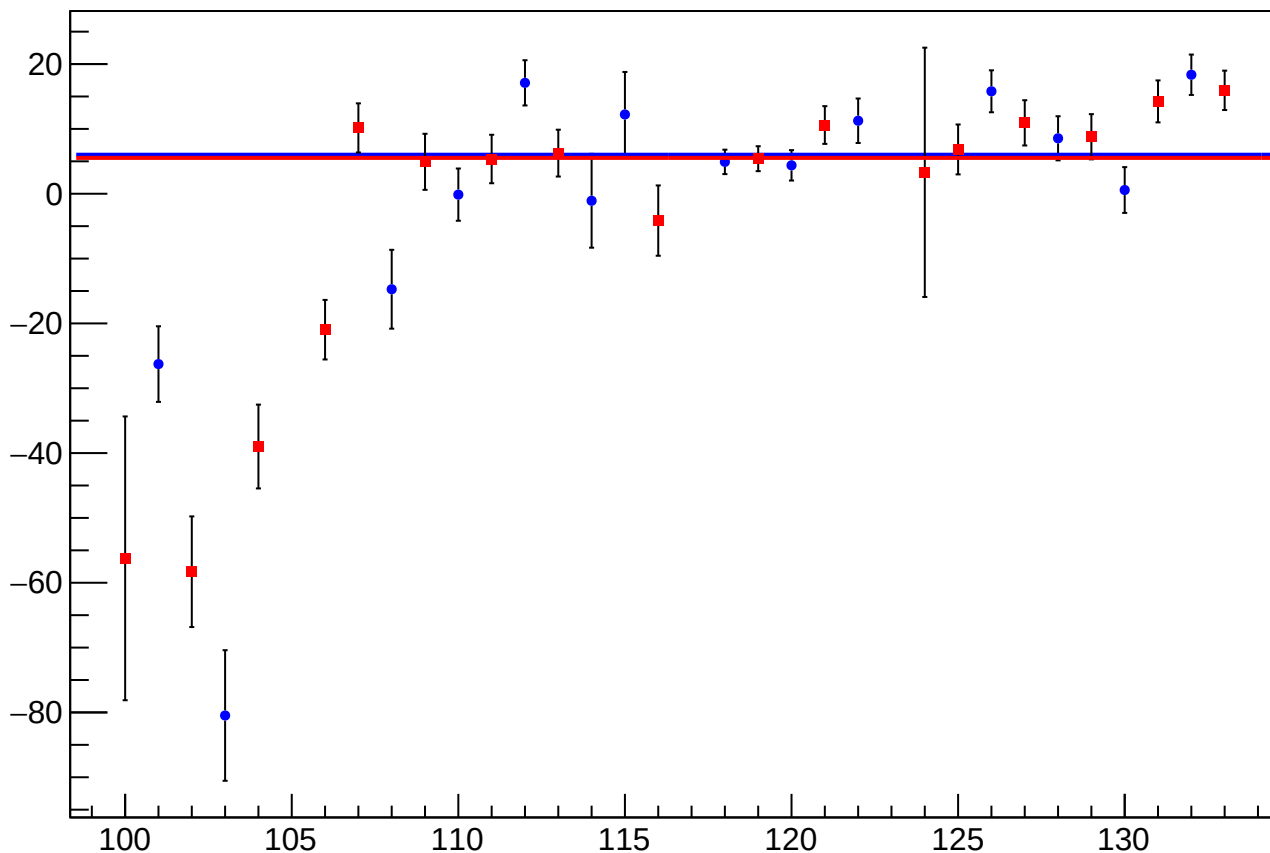
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 143.424 $\pm$ 0.615  $\chi^2$ /NDF: 3431.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 6.021+/-0.926  $\chi^2/\text{NDF}$ : 161.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.529+/-0.906  $\chi^2/\text{NDF}$ : 174.8/16

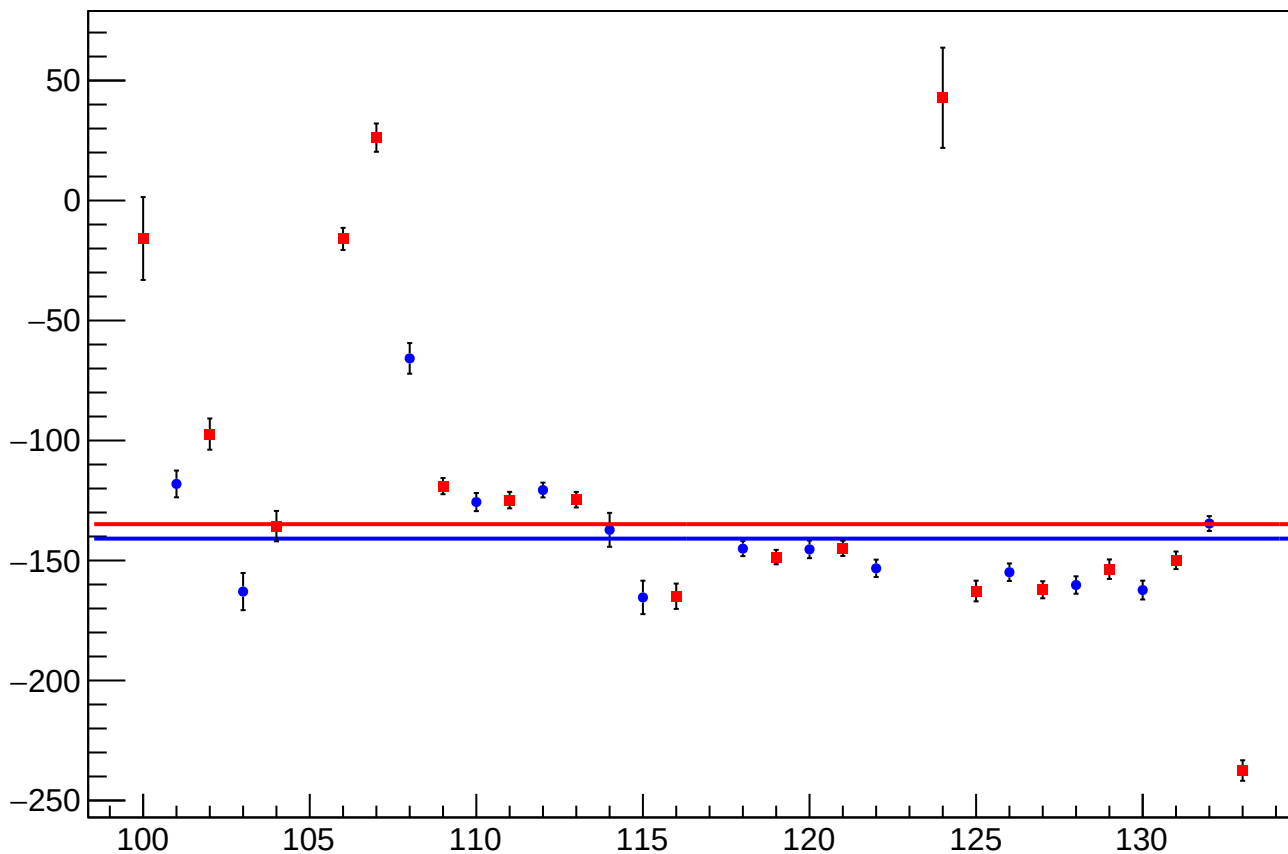
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5.769+/-0.647  $\chi^2/\text{NDF}$ : 336.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-140.878 \pm 1.077$   $\chi^2/\text{NDF}$ : 327.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-134.857 \pm 1.017$   $\chi^2/\text{NDF}$ : 2388.2/16

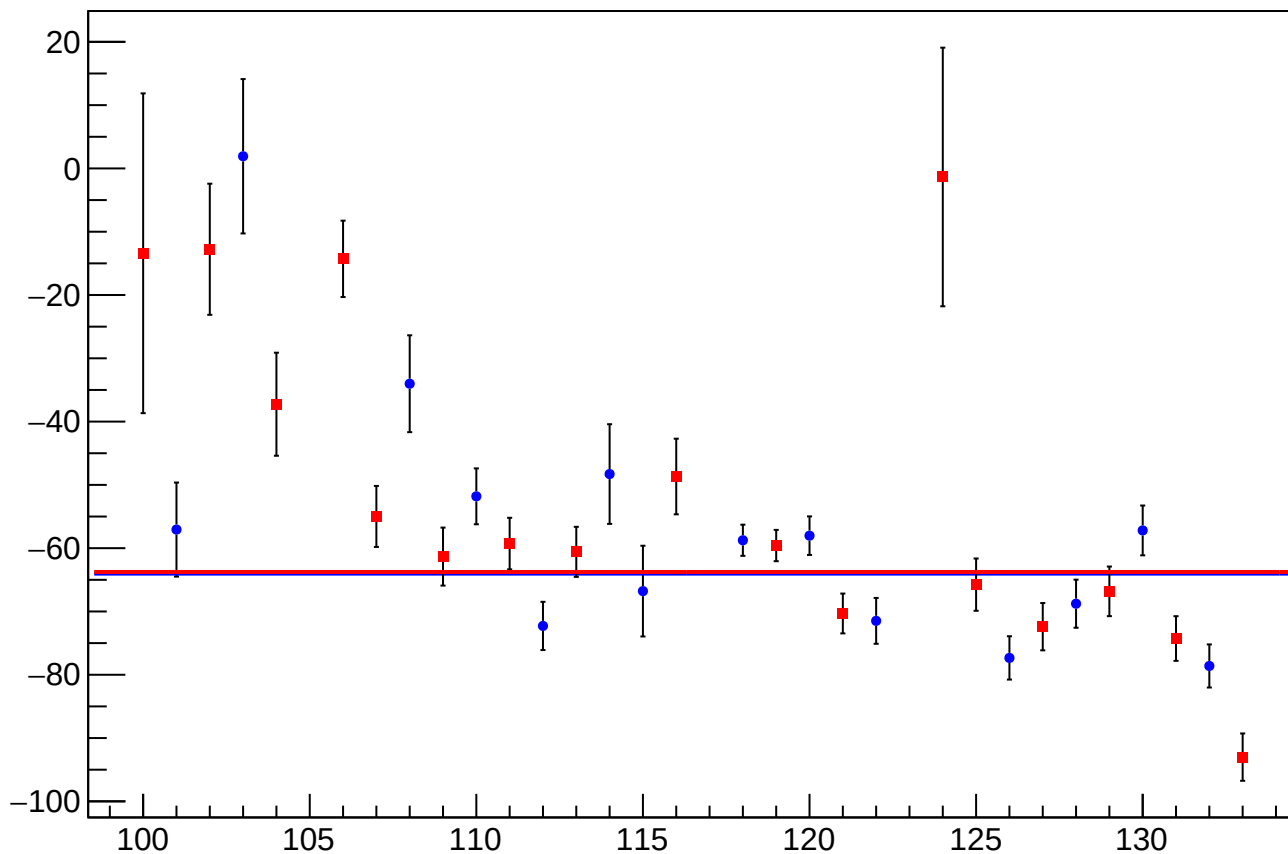
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-137.696 \pm 0.740$   $\chi^2/\text{NDF}$ : 2731.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -64.017 $\pm$ 1.083  $\chi^2$ /NDF: 112.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -63.759 $\pm$ 1.048  $\chi^2$ /NDF: 210.6/16

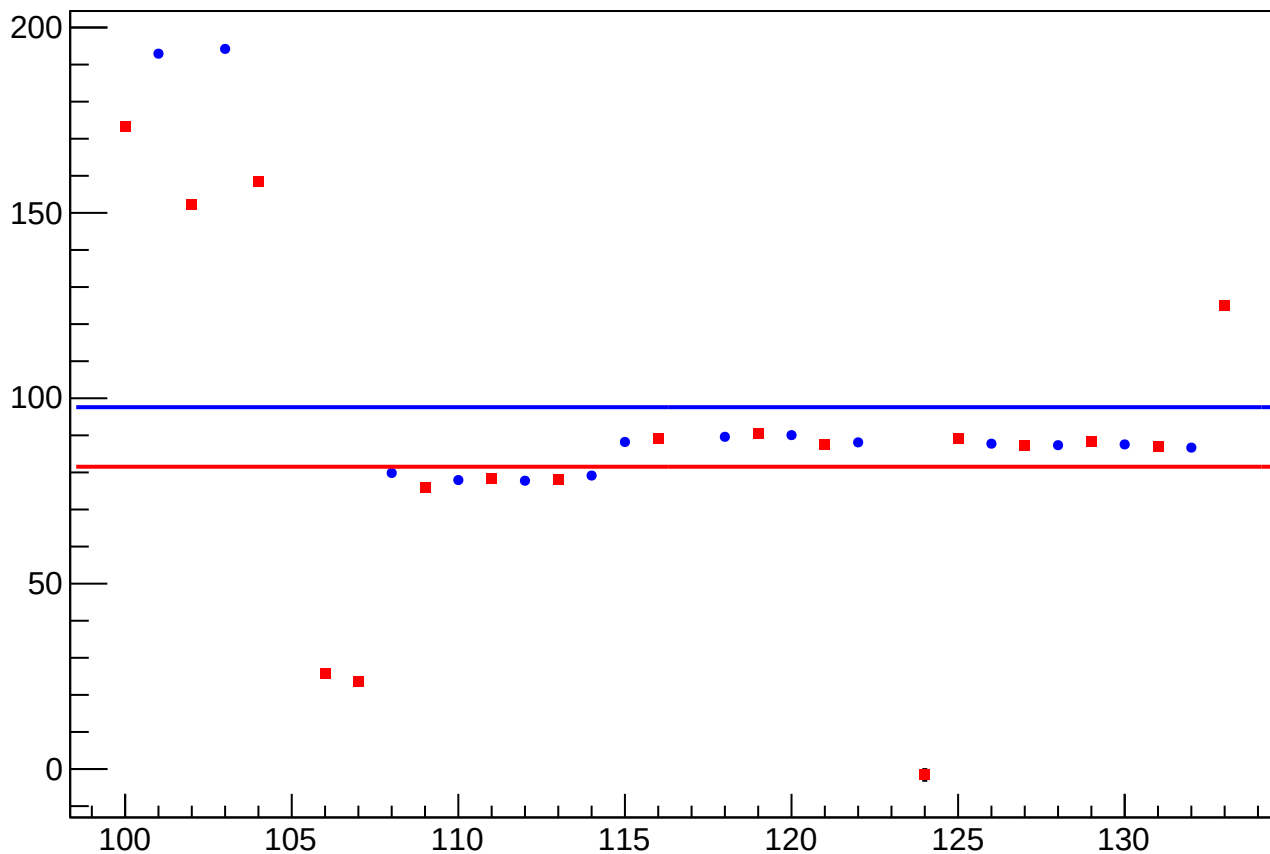
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -63.884 $\pm$ 0.753  $\chi^2$ /NDF: 323.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 97.595+/-0.080  $\chi^2/\text{NDF}$ : 191743.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 81.533+/-0.070  $\chi^2/\text{NDF}$ : 307529.9/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

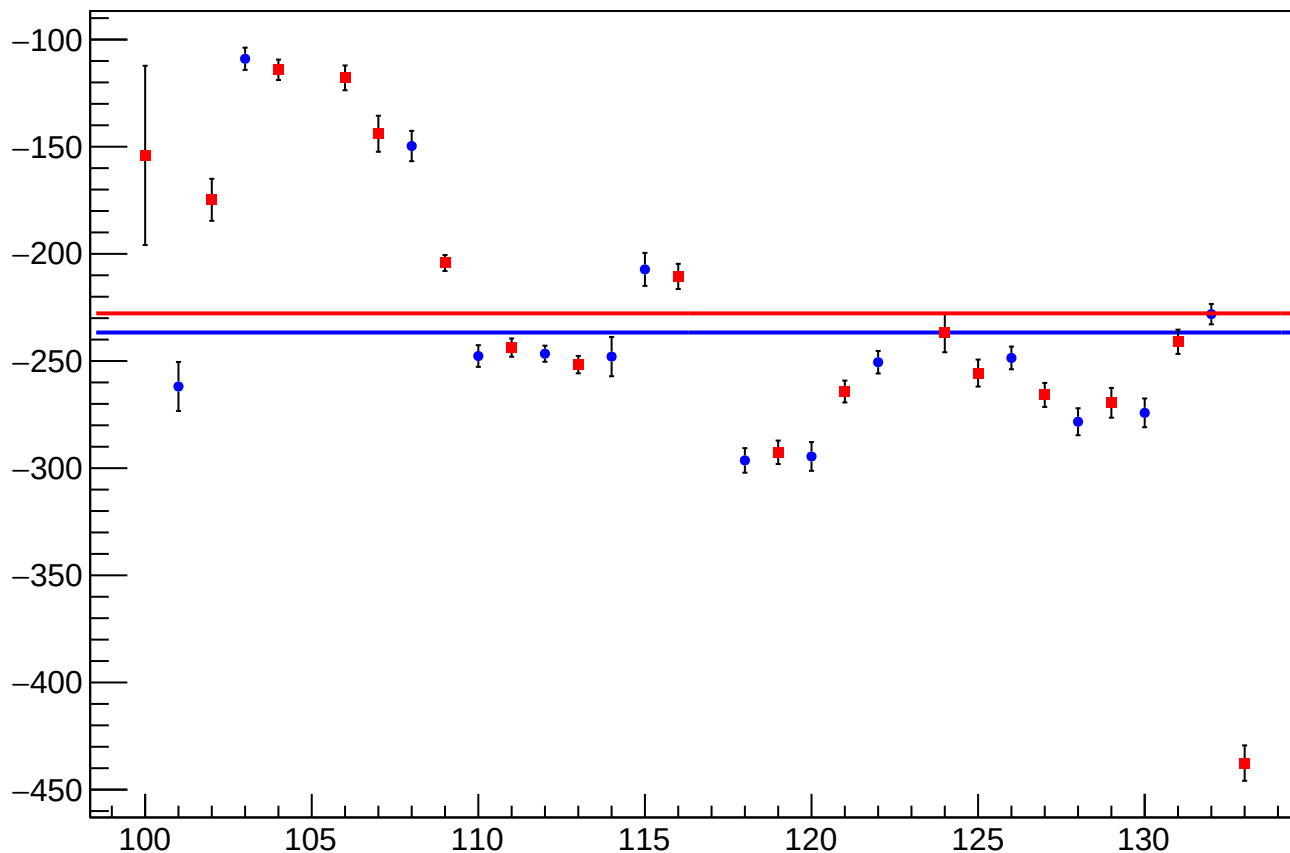
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 88.491+/-0.053  $\chi^2/\text{NDF}$ : 522220.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -236.700+/-1.544  $\chi^2/\text{NDF}$ : 1063.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -227.774+/-1.383  $\chi^2/\text{NDF}$ : 2100.3/16

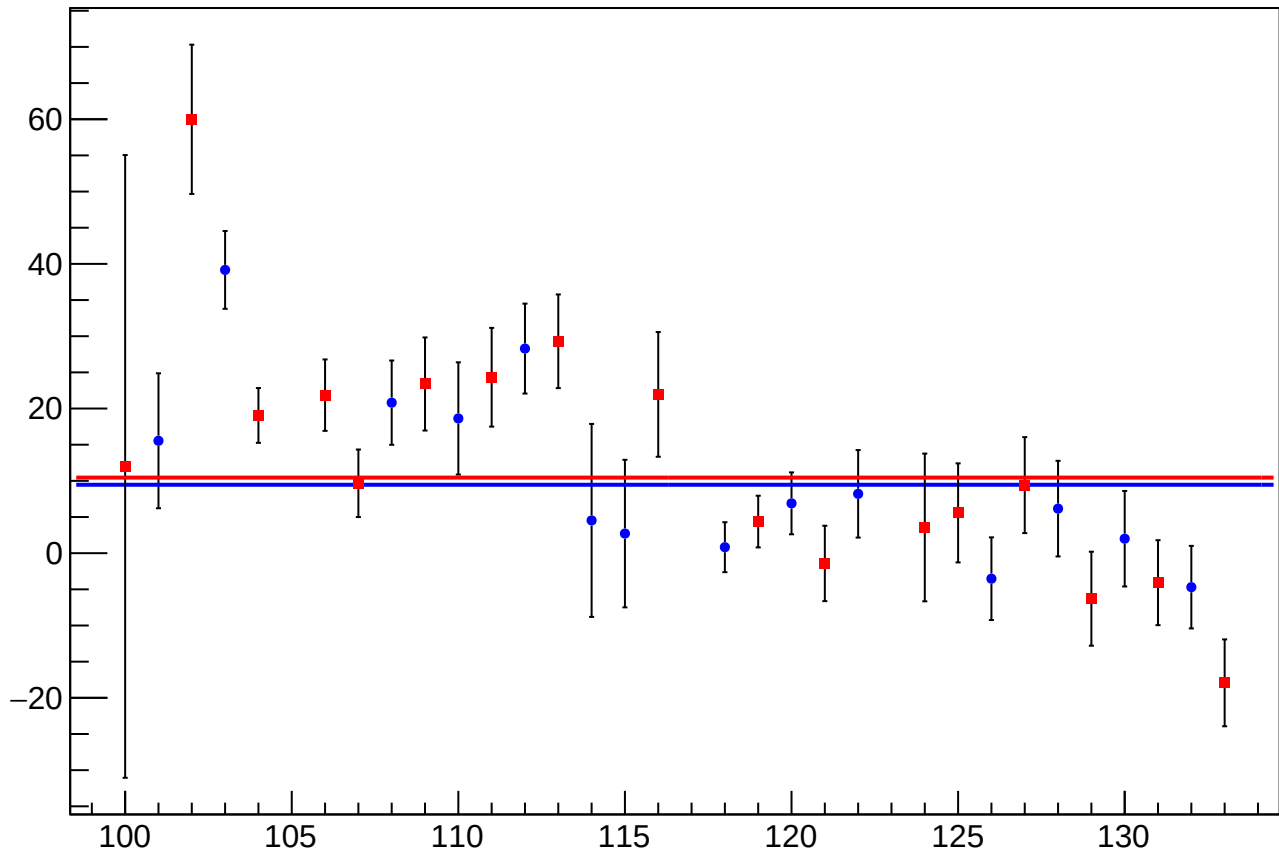
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -231.748+/-1.030  $\chi^2/\text{NDF}$ : 3182.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 9.461+/-1.569  $\chi^2/\text{NDF}$ : 65.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.450+/-1.416  $\chi^2/\text{NDF}$ : 96.1/16

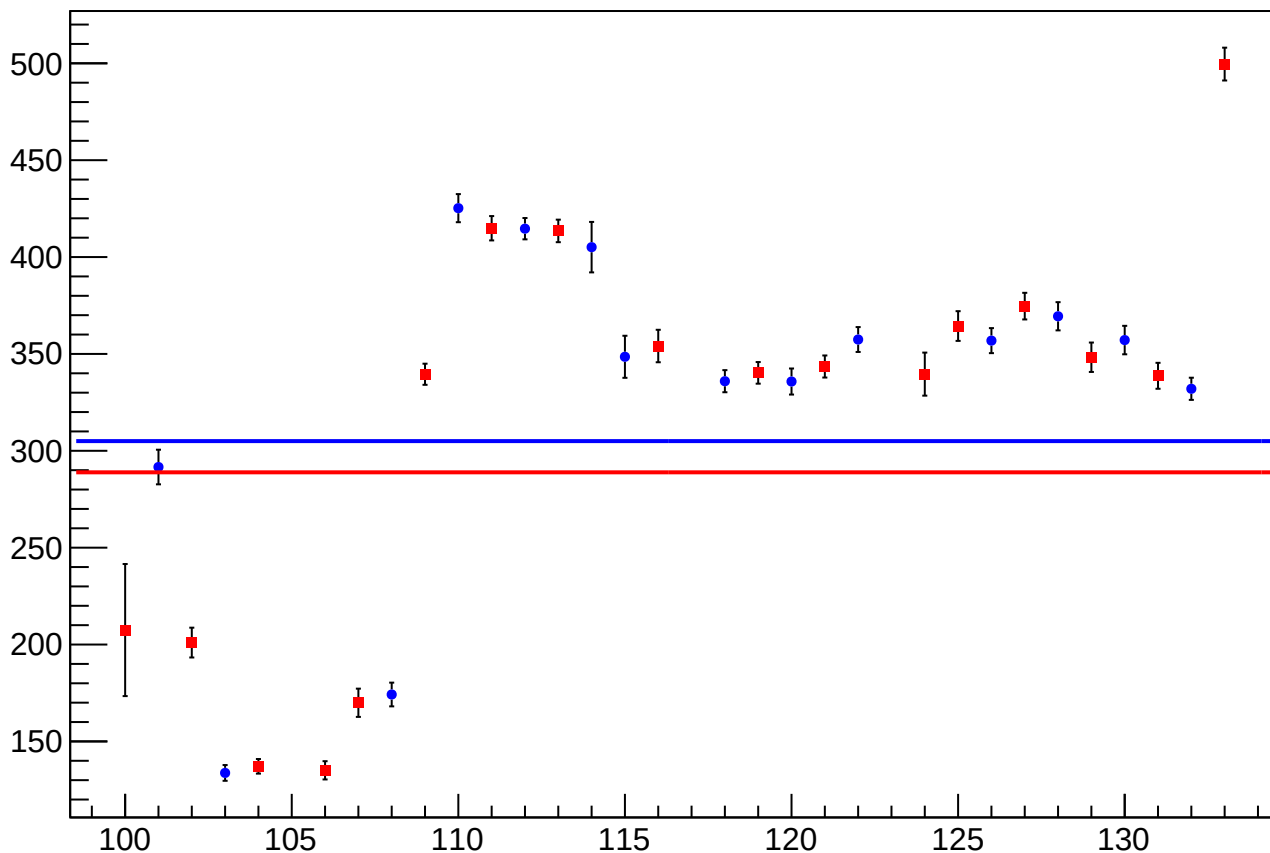
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.006+/-1.051  $\chi^2/\text{NDF}$ : 161.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 305.004 $\pm$ 1.728  $\chi^2$ /NDF: 3311.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 288.888 $\pm$ 1.547  $\chi^2$ /NDF: 5286.1/16

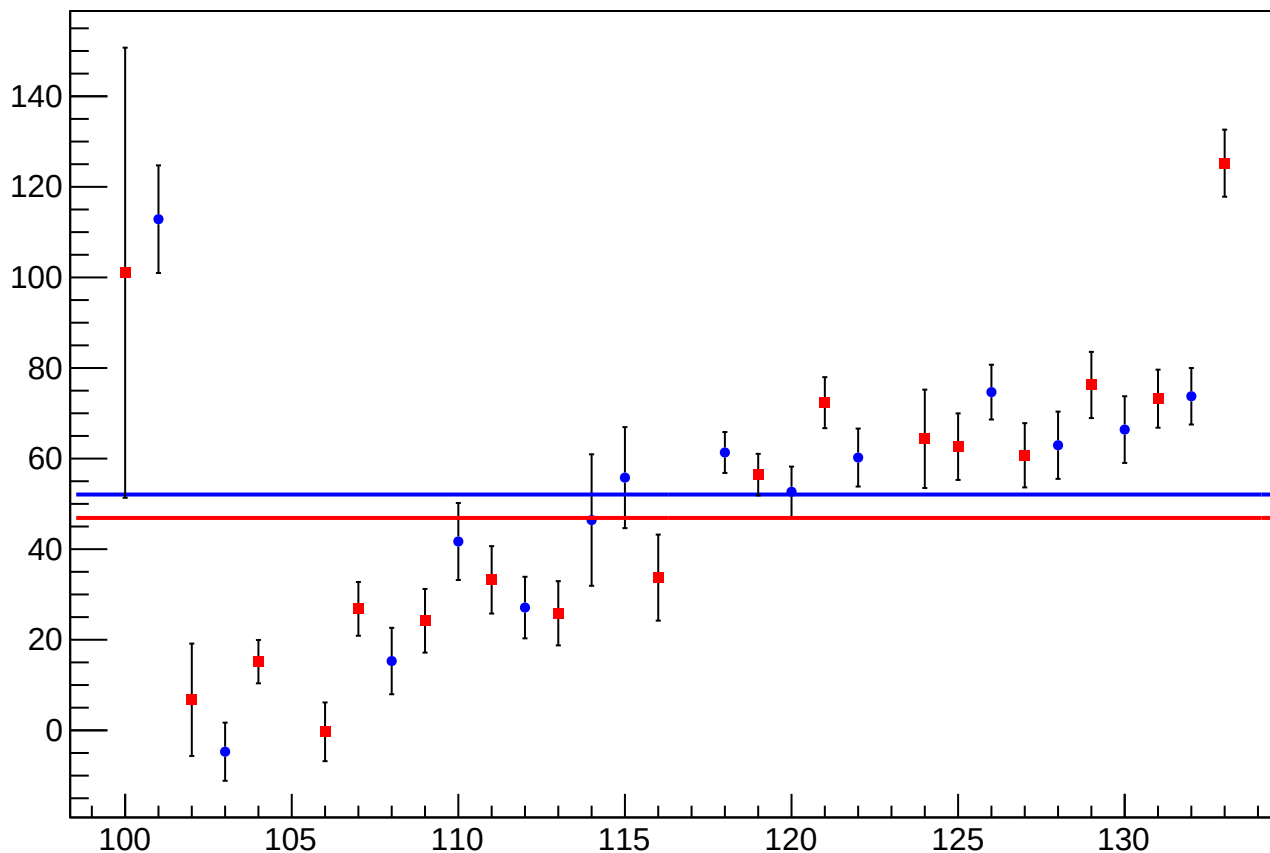
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 296.061 $\pm$ 1.152  $\chi^2$ /NDF: 8646.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 52.066+/-1.846  $\chi^2/\text{NDF}$ : 182.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.896+/-1.669  $\chi^2/\text{NDF}$ : 325.2/16

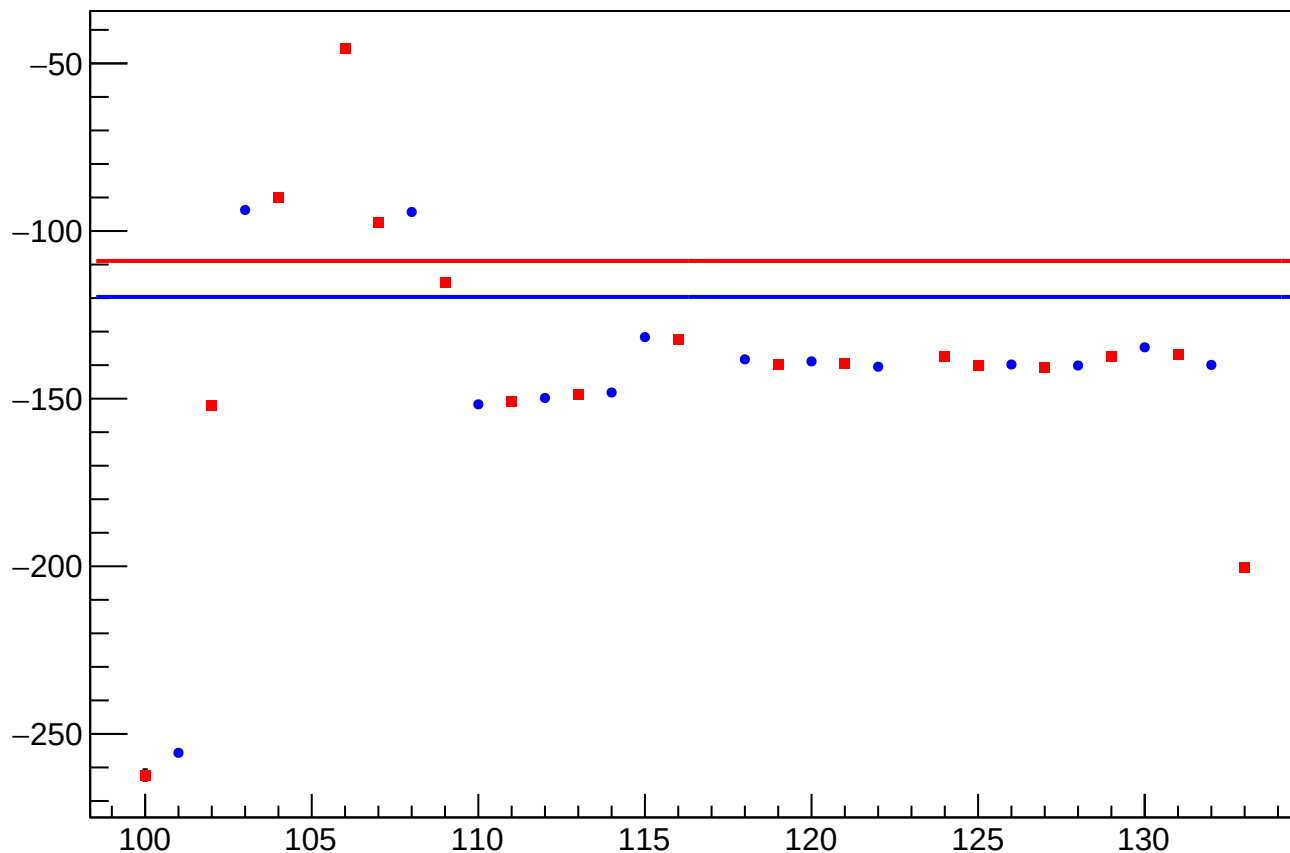
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 49.221+/-1.238  $\chi^2/\text{NDF}$ : 512.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-119.652 \pm 0.105$   $\chi^2/\text{NDF}: 117794.4/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-108.925 \pm 0.093$   $\chi^2/\text{NDF}: 171063.0/16$

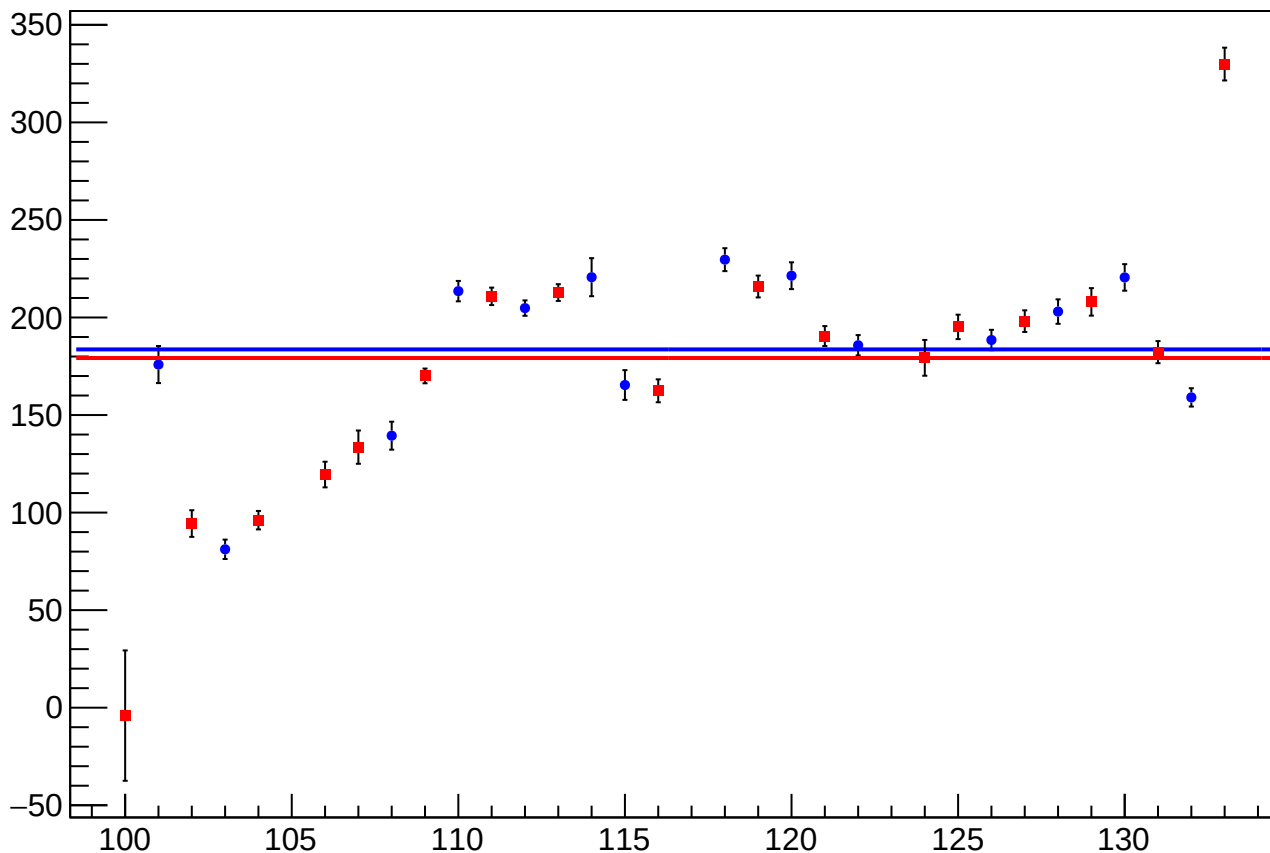
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-113.679 \pm 0.070$   $\chi^2/\text{NDF}: 294698.5/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 183.641 $\pm$ 1.551  $\chi^2$ /NDF: 703.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 179.226 $\pm$ 1.396  $\chi^2$ /NDF: 1133.2/16

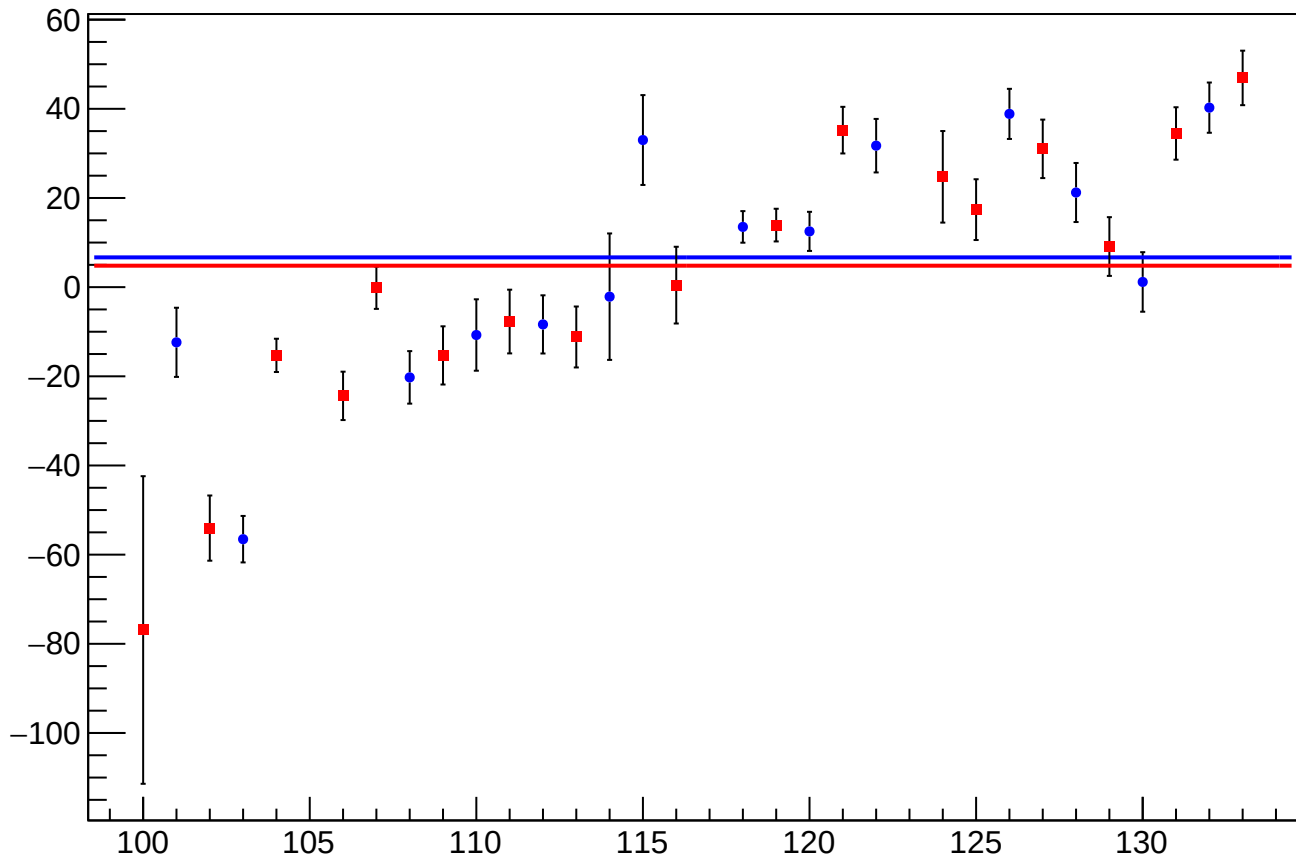
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 181.202 $\pm$ 1.038  $\chi^2$ /NDF: 1841.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $6.678 \pm 1.573$   $\chi^2/\text{NDF}$ : 287.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $4.812 \pm 1.426$   $\chi^2/\text{NDF}$ : 284.3/16

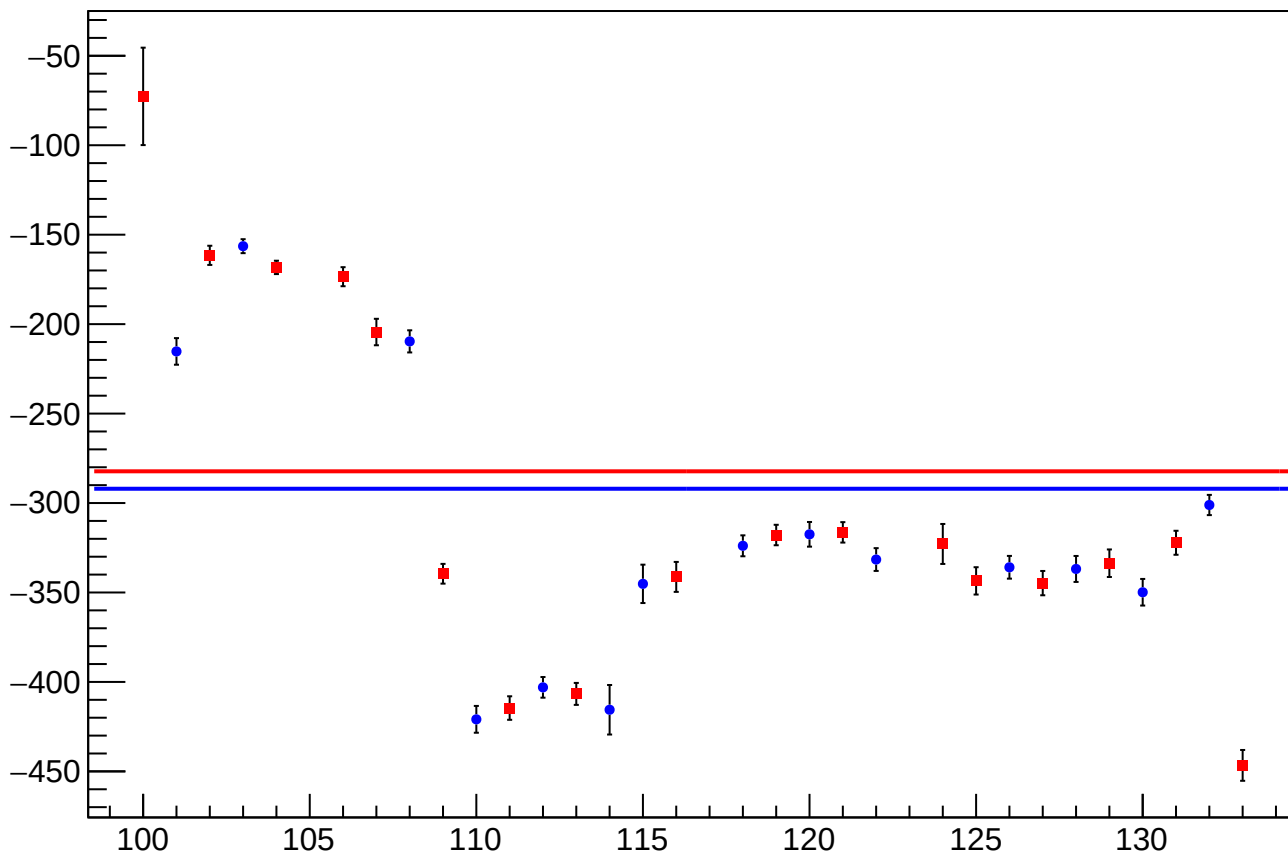
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $5.654 \pm 1.057$   $\chi^2/\text{NDF}$ : 572.9/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -292.014 $\pm$ 1.716  $\chi^2$ /NDF: 2491.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -282.268 $\pm$ 1.545  $\chi^2$ /NDF: 3680.1/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

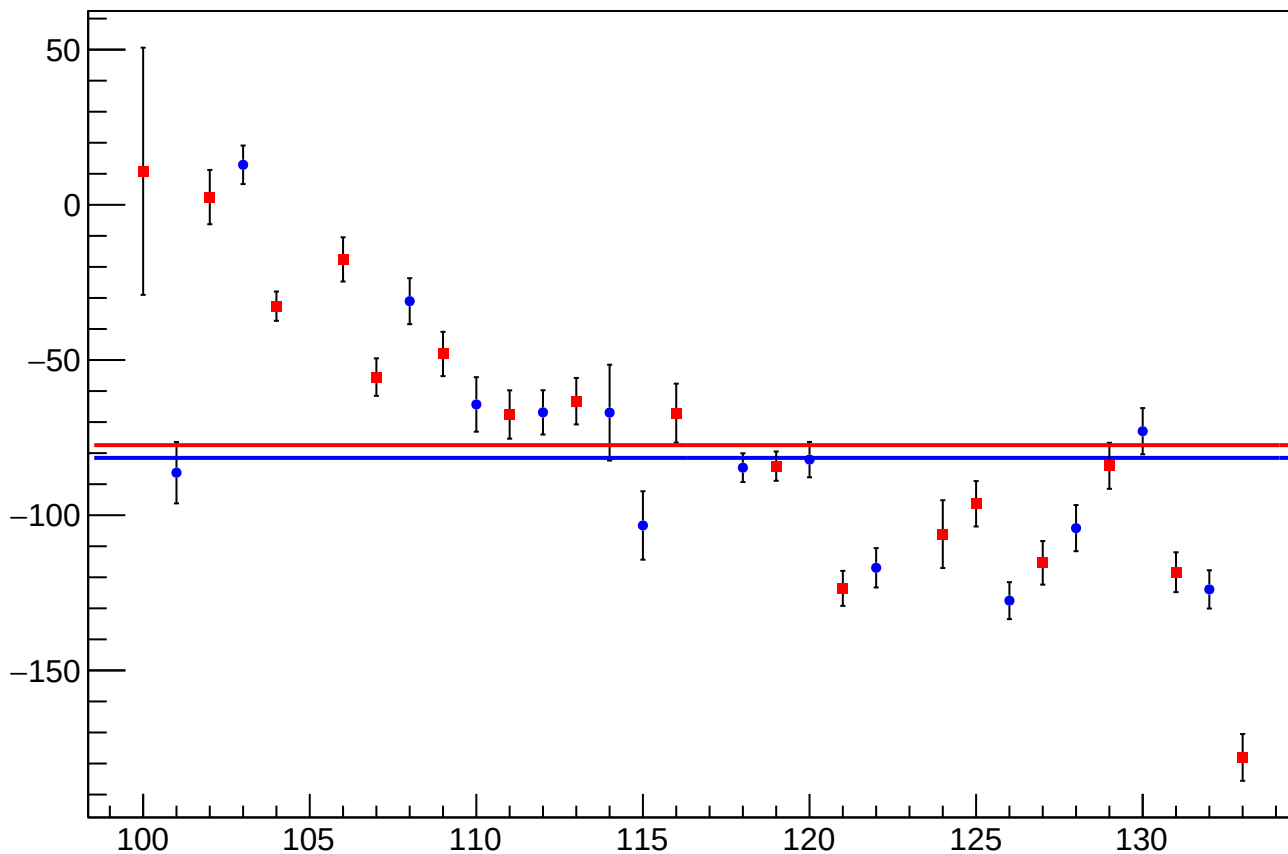
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -286.632 $\pm$ 1.148  $\chi^2$ /NDF: 6189.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -81.533 $\pm$ 1.850  $\chi^2$ /NDF: 439.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -77.424 $\pm$ 1.679  $\chi^2$ /NDF: 616.9/16

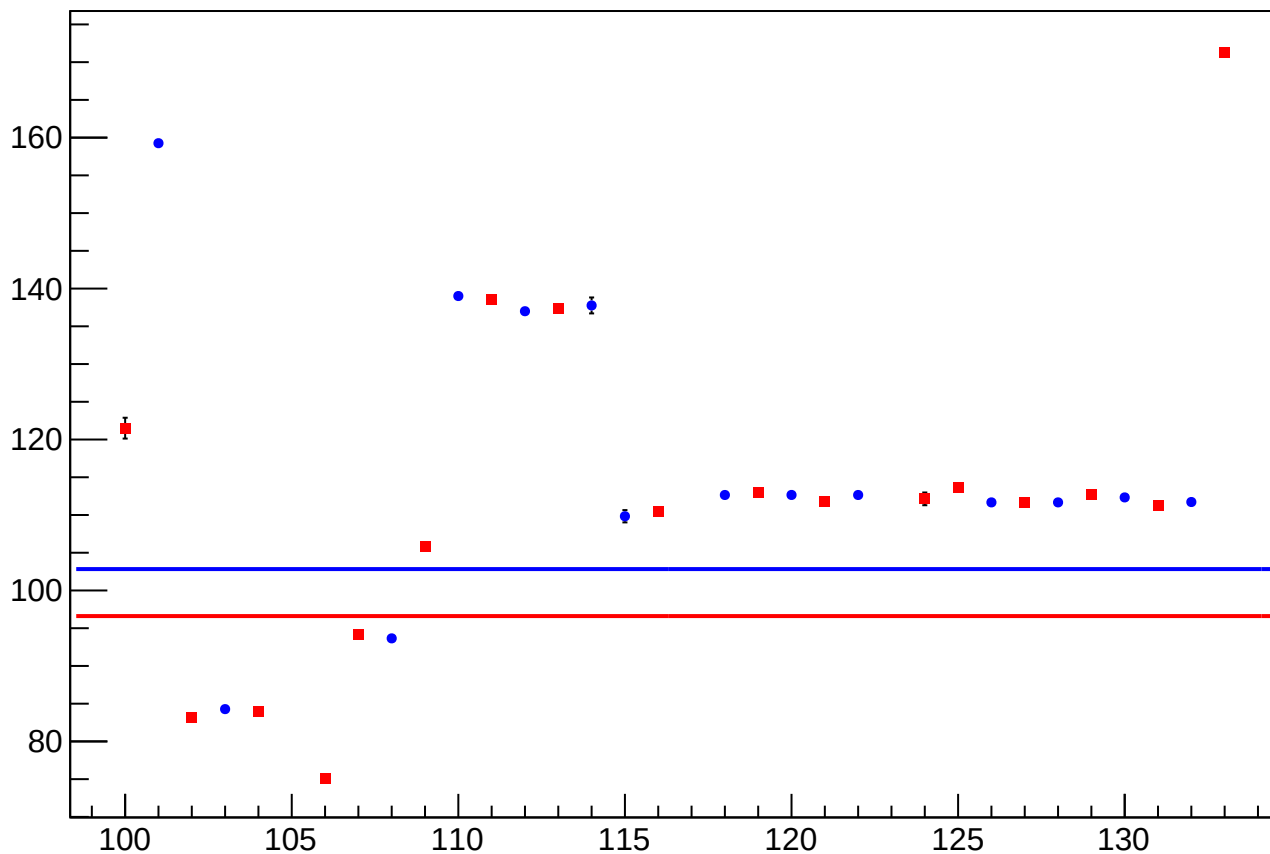
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -79.280 $\pm$ 1.243  $\chi^2$ /NDF: 1059.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 102.834 $\pm$ 0.103  $\chi^2$ /NDF: 43229.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 96.607 $\pm$ 0.091  $\chi^2$ /NDF: 51120.2/16

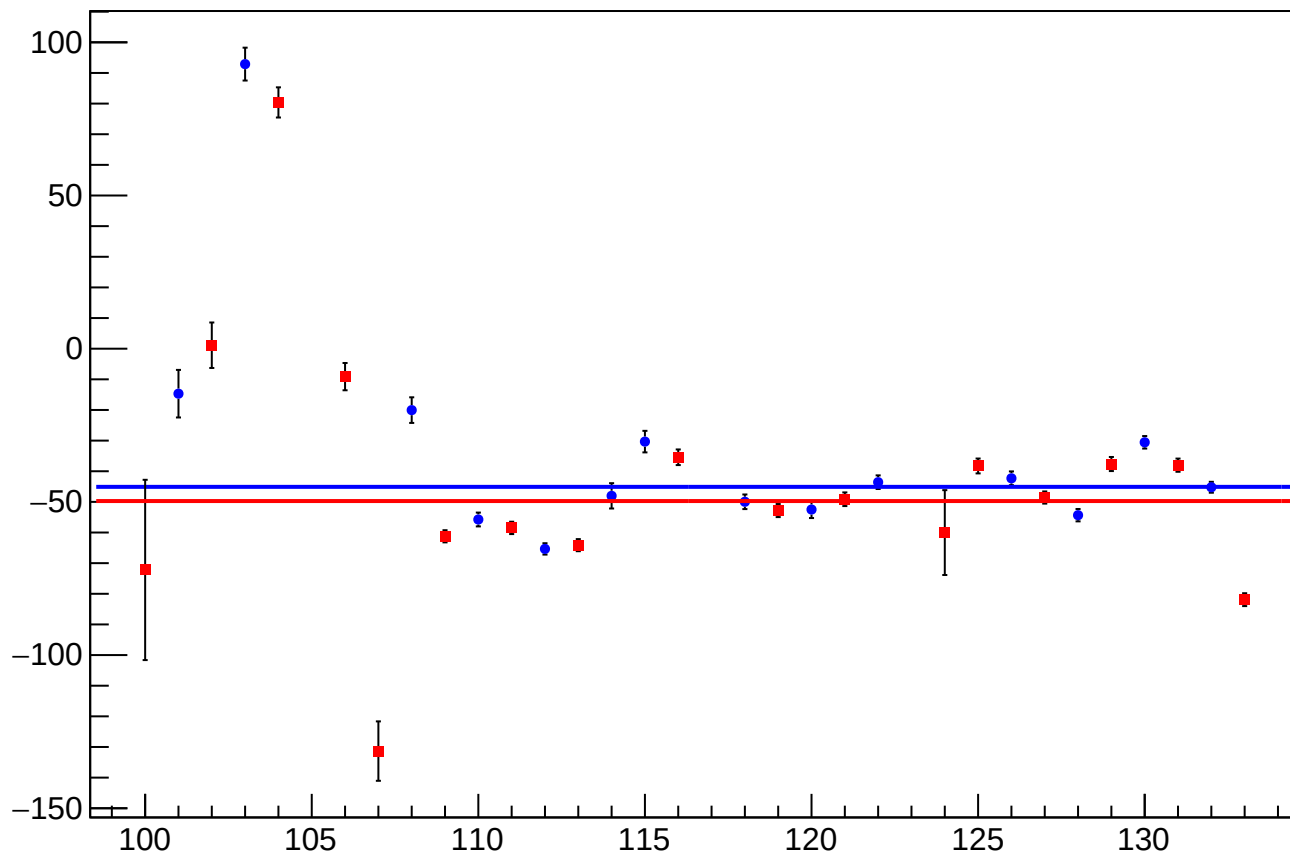
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 99.345 $\pm$ 0.068  $\chi^2$ /NDF: 96406.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-45.094 \pm 0.668$   $\chi^2/\text{NDF}$ : 957.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-49.728 \pm 0.630$   $\chi^2/\text{NDF}$ : 1354.8/16

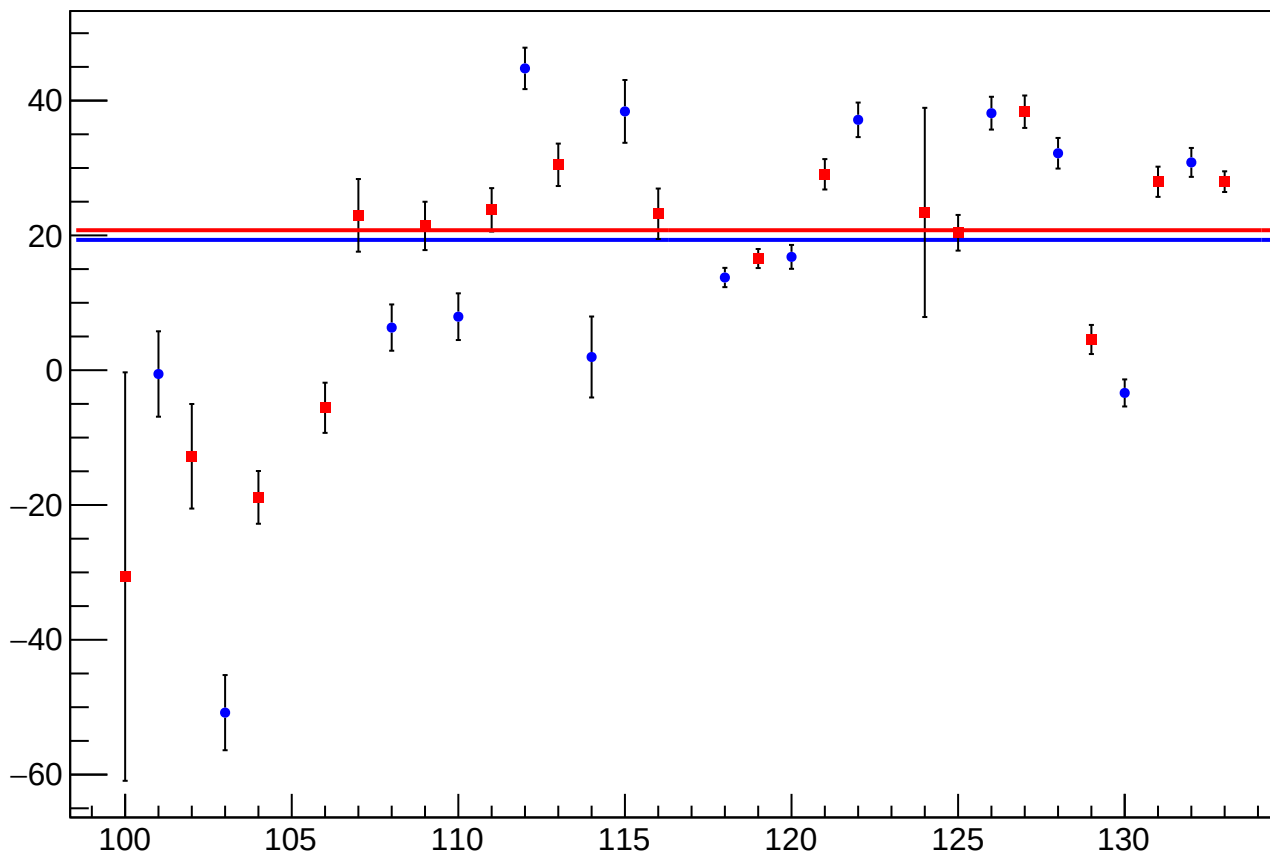
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-47.545 \pm 0.458$   $\chi^2/\text{NDF}$ : 2337.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 19.332 $\pm$ 0.675  $\chi^2$ /NDF: 600.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 20.768 $\pm$ 0.647  $\chi^2$ /NDF: 349.8/16

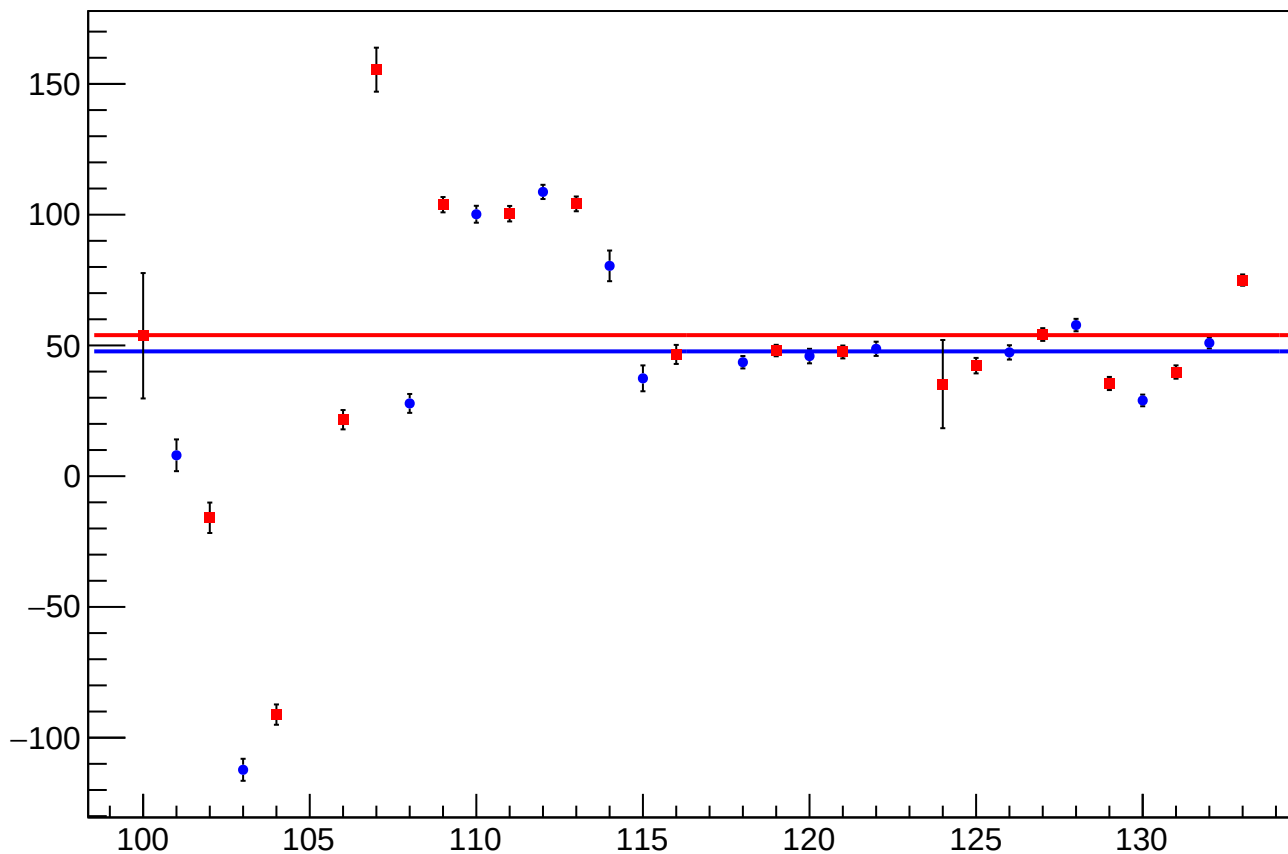
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 20.081 $\pm$ 0.467  $\chi^2$ /NDF: 952.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 47.723+/-0.782  $\chi^2$ /NDF: 2415.6/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 53.935+/-0.744  $\chi^2$ /NDF: 2828.3/16

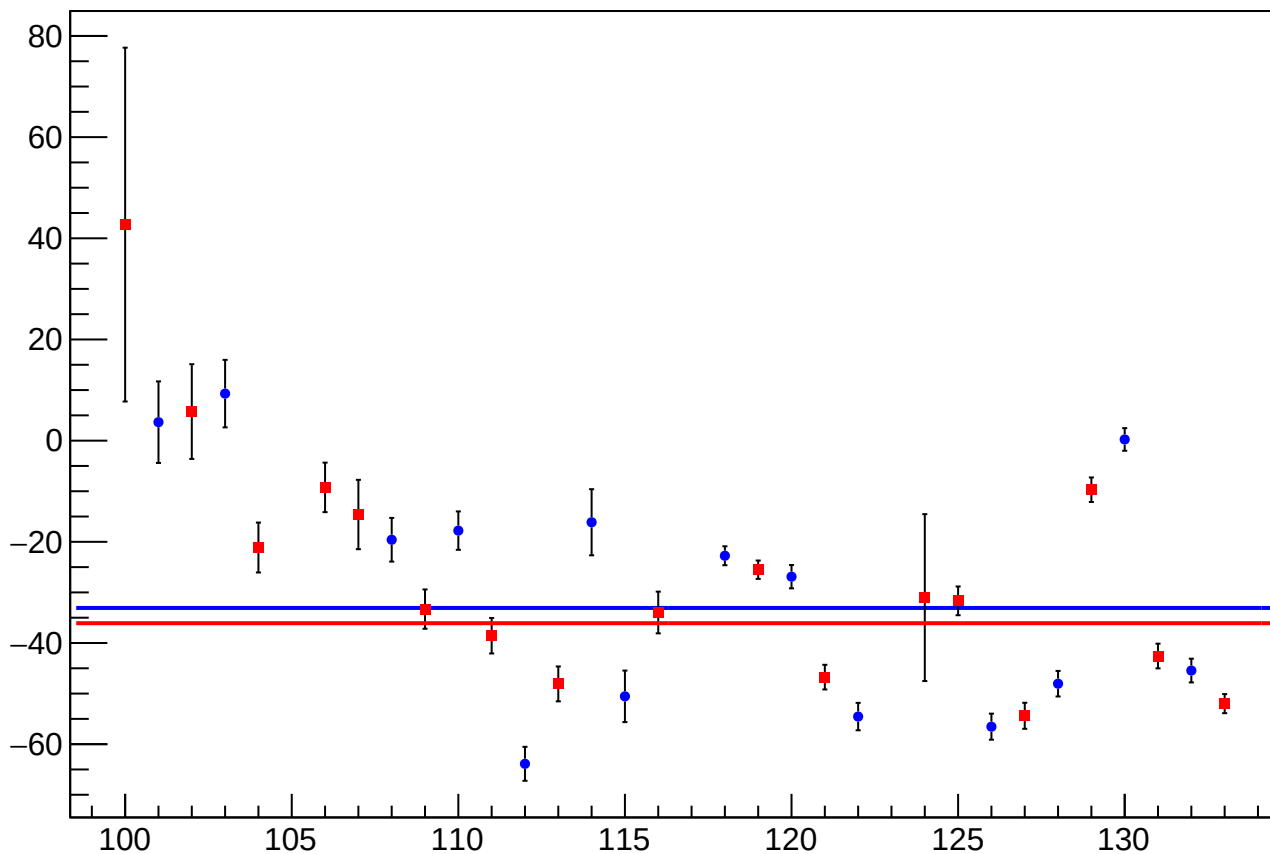
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 50.984+/-0.539  $\chi^2$ /NDF: 5277.0/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-33.071 \pm 0.788$   $\chi^2/\text{NDF}$ : 657.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-36.085 \pm 0.751$   $\chi^2/\text{NDF}$ : 389.7/16

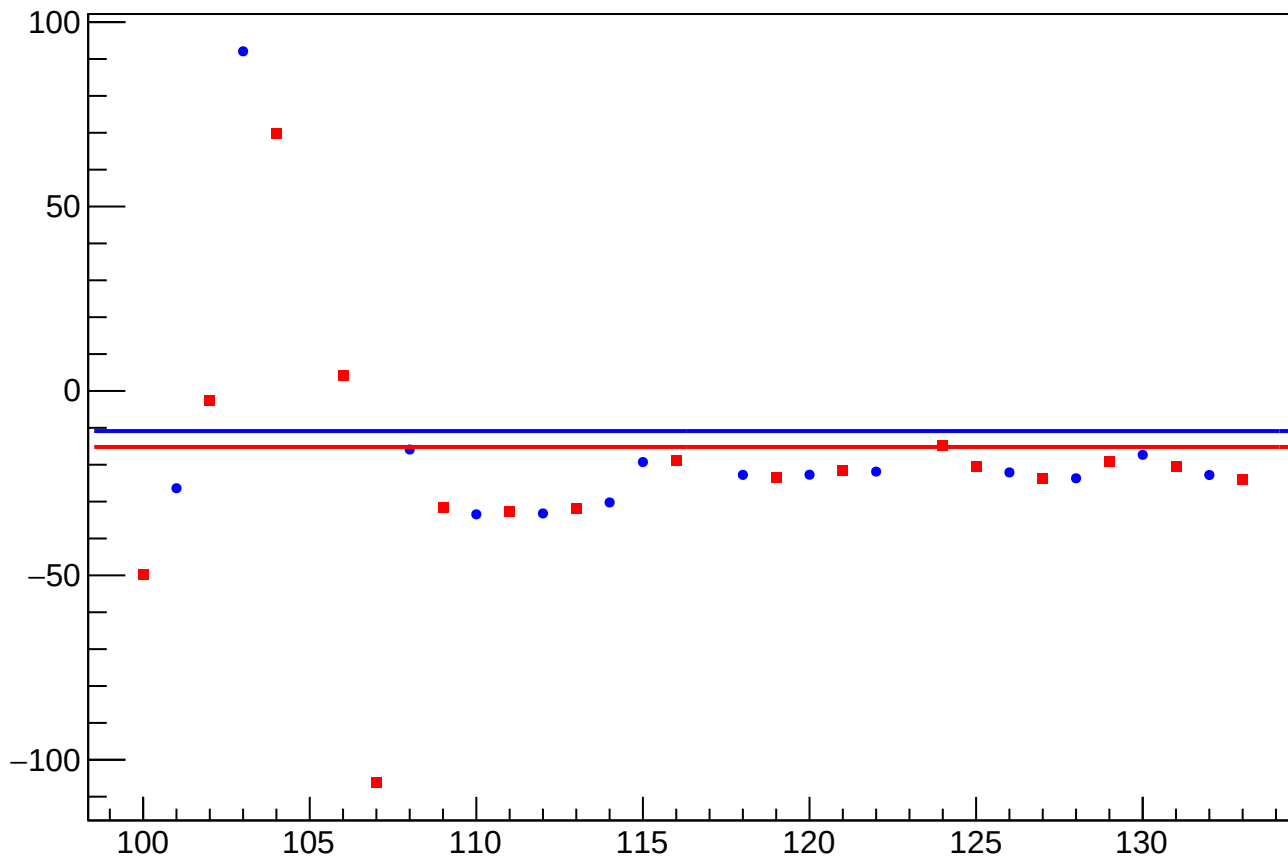
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-34.650 \pm 0.543$   $\chi^2/\text{NDF}$ : 1055.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-10.875 \pm 0.056$   $\chi^2/\text{NDF}: 386117.5/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-15.183 \pm 0.053$   $\chi^2/\text{NDF}: 320268.8/16$

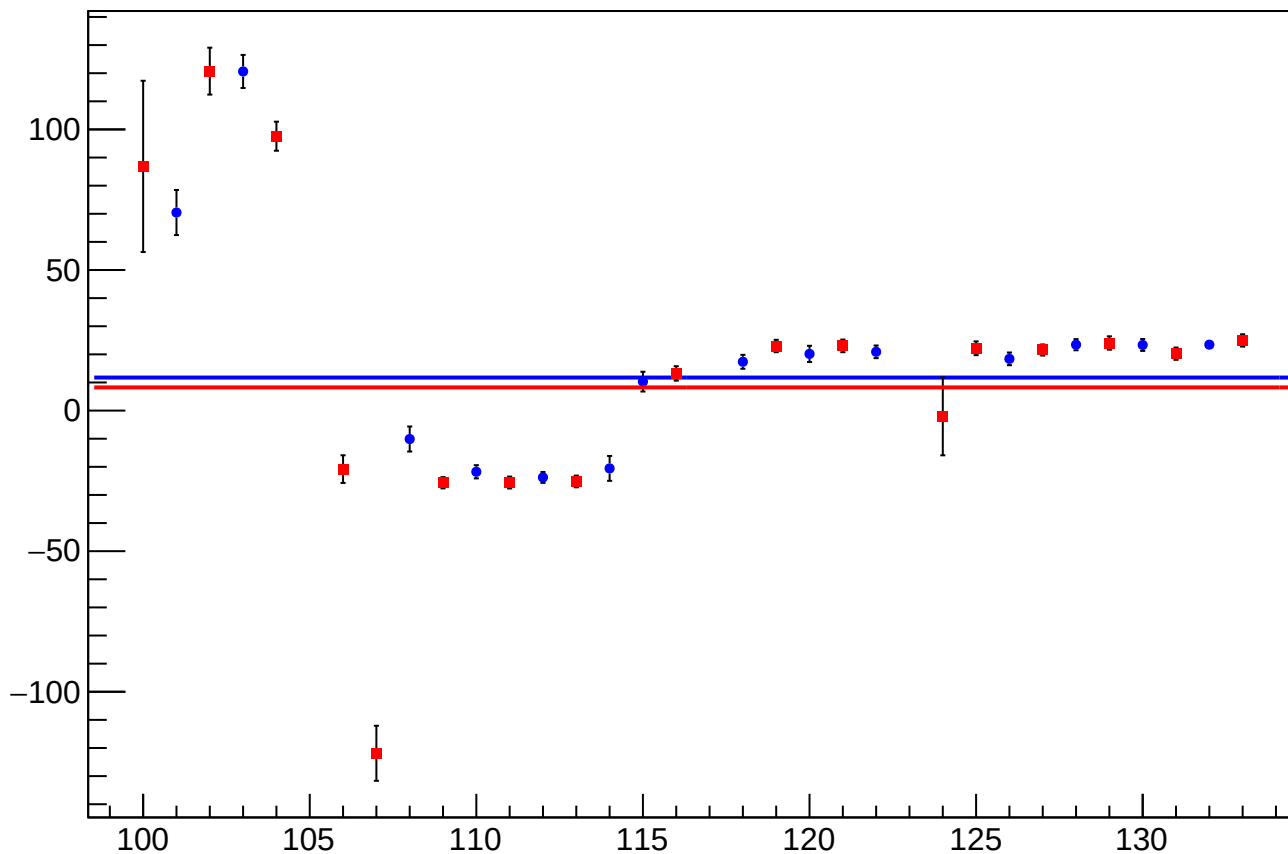
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-13.151 \pm 0.039$   $\chi^2/\text{NDF}: 709485.6/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 11.754+/-0.683  $\chi^2/\text{NDF}$ : 1157.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.241+/-0.647  $\chi^2/\text{NDF}$ : 1800.7/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

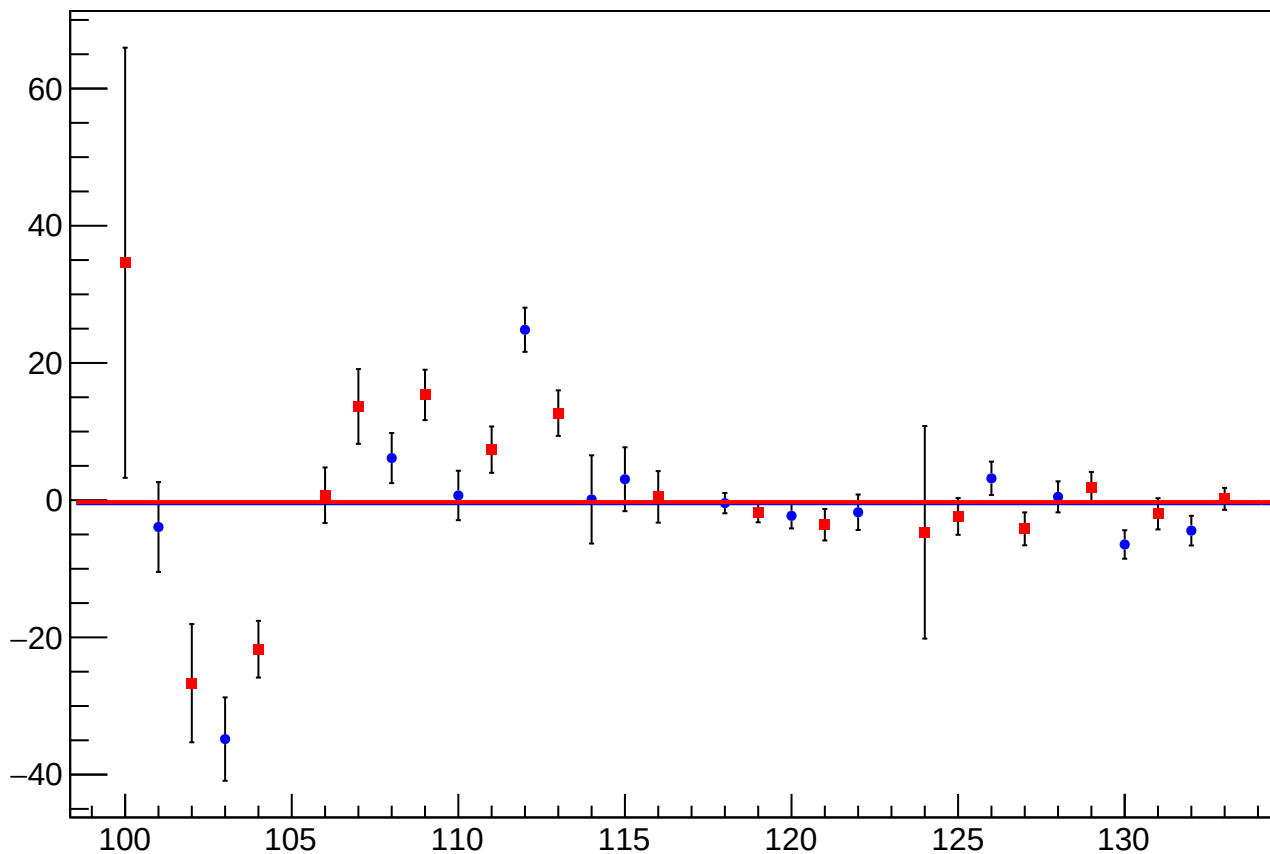
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.903+/-0.470  $\chi^2/\text{NDF}$ : 2971.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.447 \pm 0.694$   $\chi^2/\text{NDF}$ : 113.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.276 \pm 0.667$   $\chi^2/\text{NDF}$ : 90.7/16

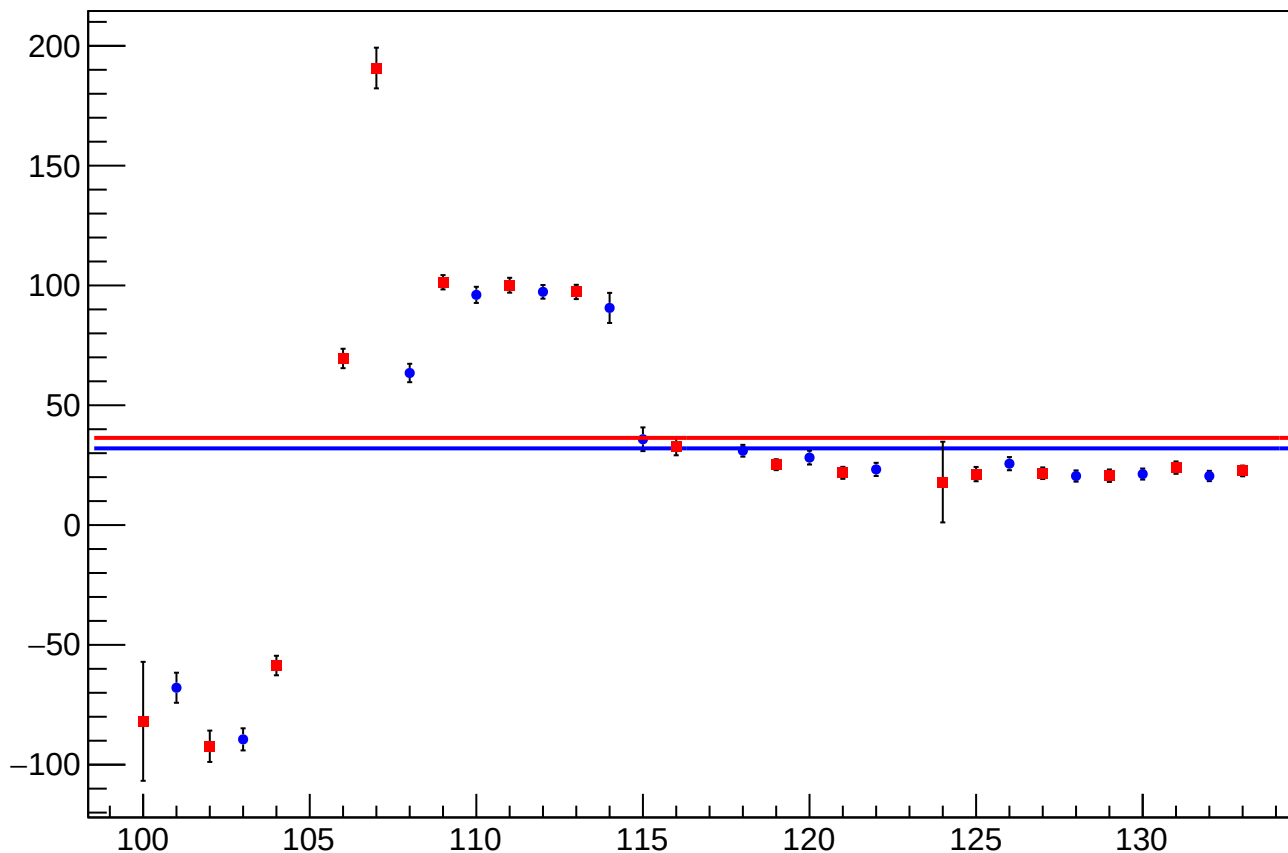
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.358 \pm 0.481$   $\chi^2/\text{NDF}$ : 204.0/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 32.008 $\pm$ 0.802  $\chi^2$ /NDF: 2081.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.383 $\pm$ 0.767  $\chi^2$ /NDF: 2883.5/16

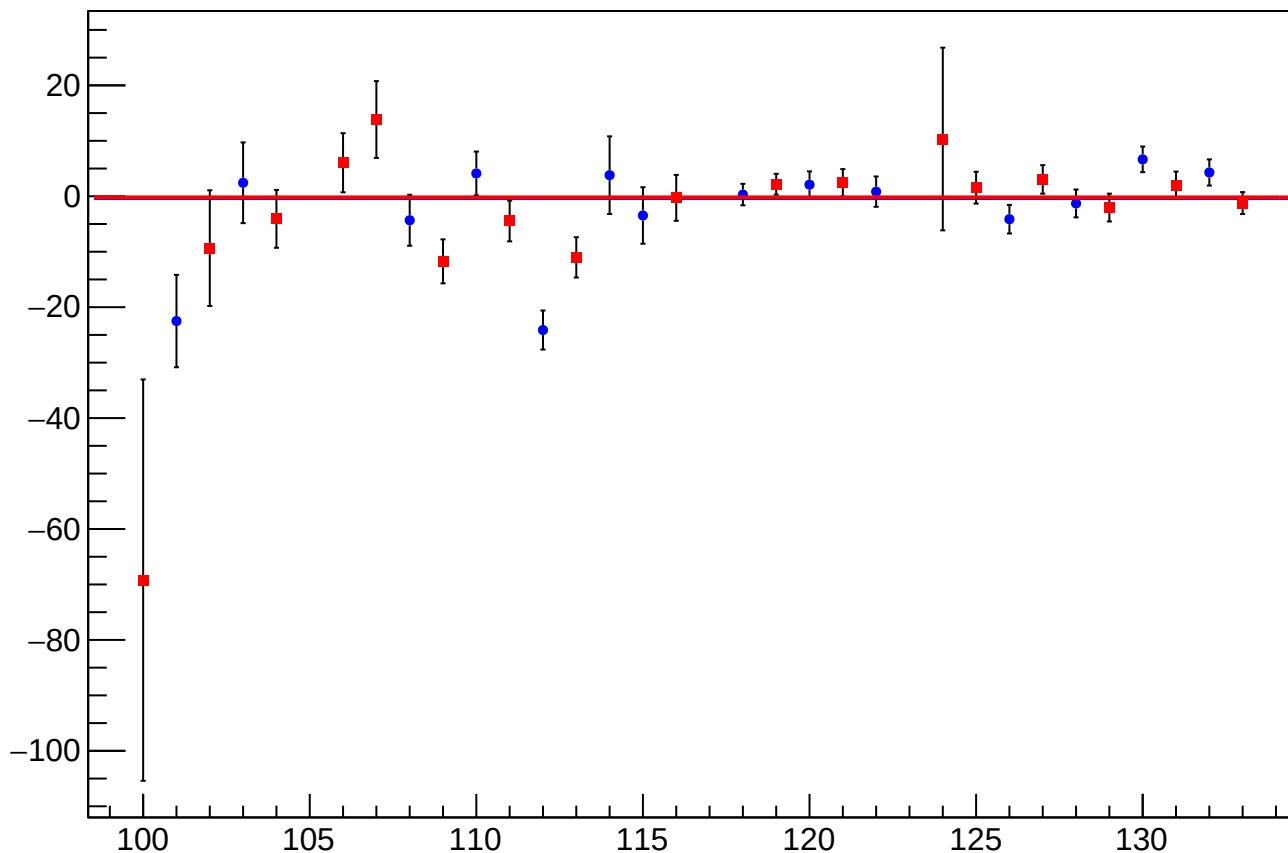
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 34.294 $\pm$ 0.554  $\chi^2$ /NDF: 4980.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.314 \pm 0.807$   $\chi^2/\text{NDF}$ : 72.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.205 \pm 0.773$   $\chi^2/\text{NDF}$ : 35.7/16

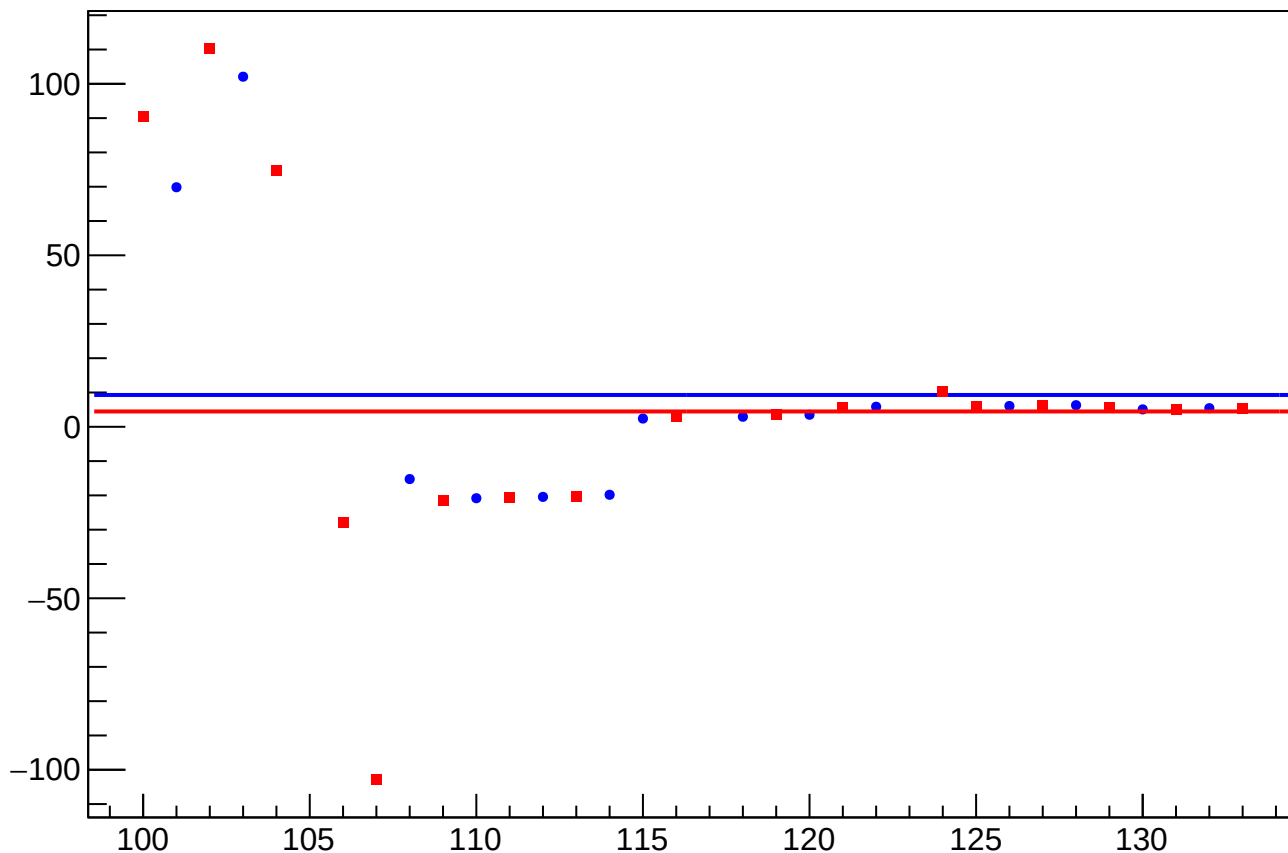
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.257 \pm 0.558$   $\chi^2/\text{NDF}$ : 108.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 9.280+/-0.058  $\chi^2/\text{NDF}$ : 316902.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.470+/-0.055  $\chi^2/\text{NDF}$ : 434460.4/16

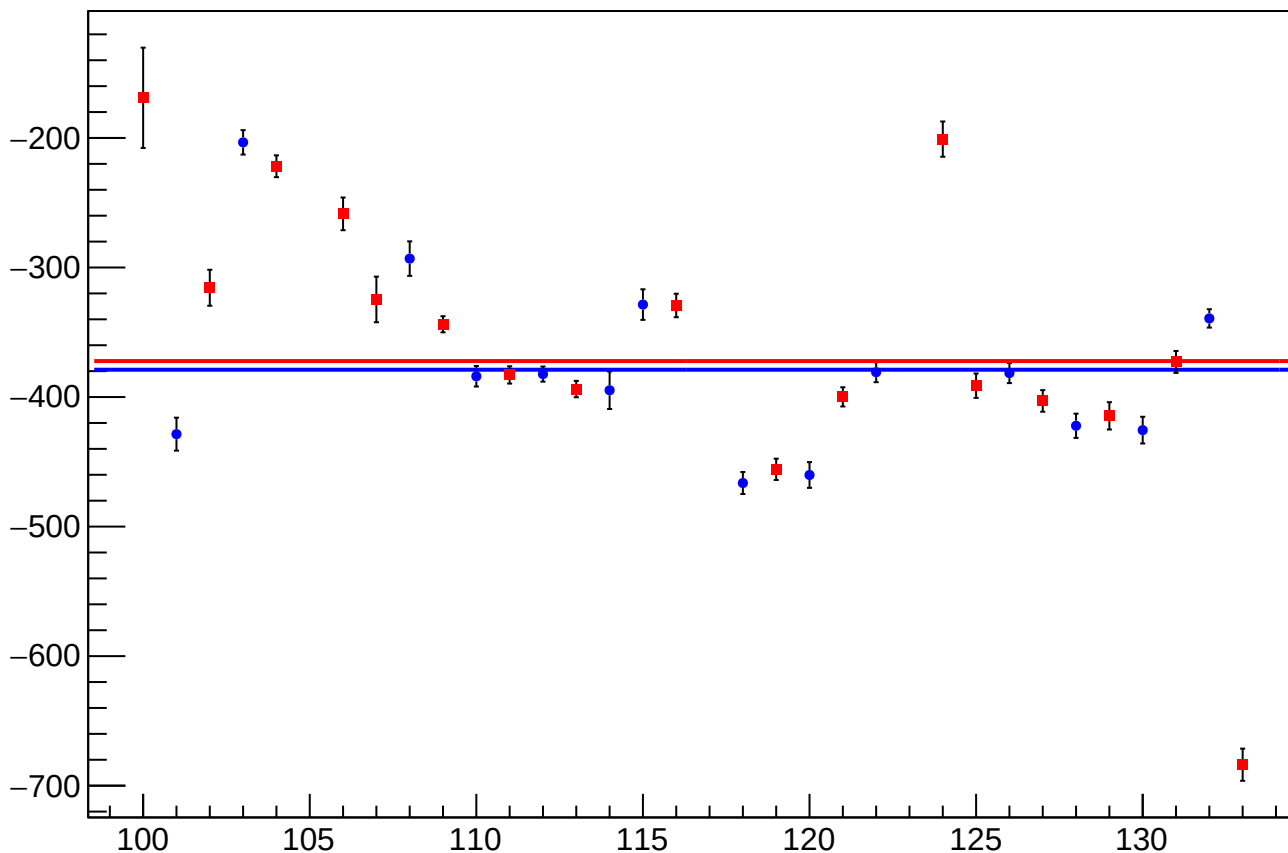
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.749+/-0.040  $\chi^2/\text{NDF}$ : 754954.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-378.901 \pm 2.367$   $\chi^2/\text{NDF}$ : 669.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-372.219 \pm 2.190$   $\chi^2/\text{NDF}$ : 1448.0/16

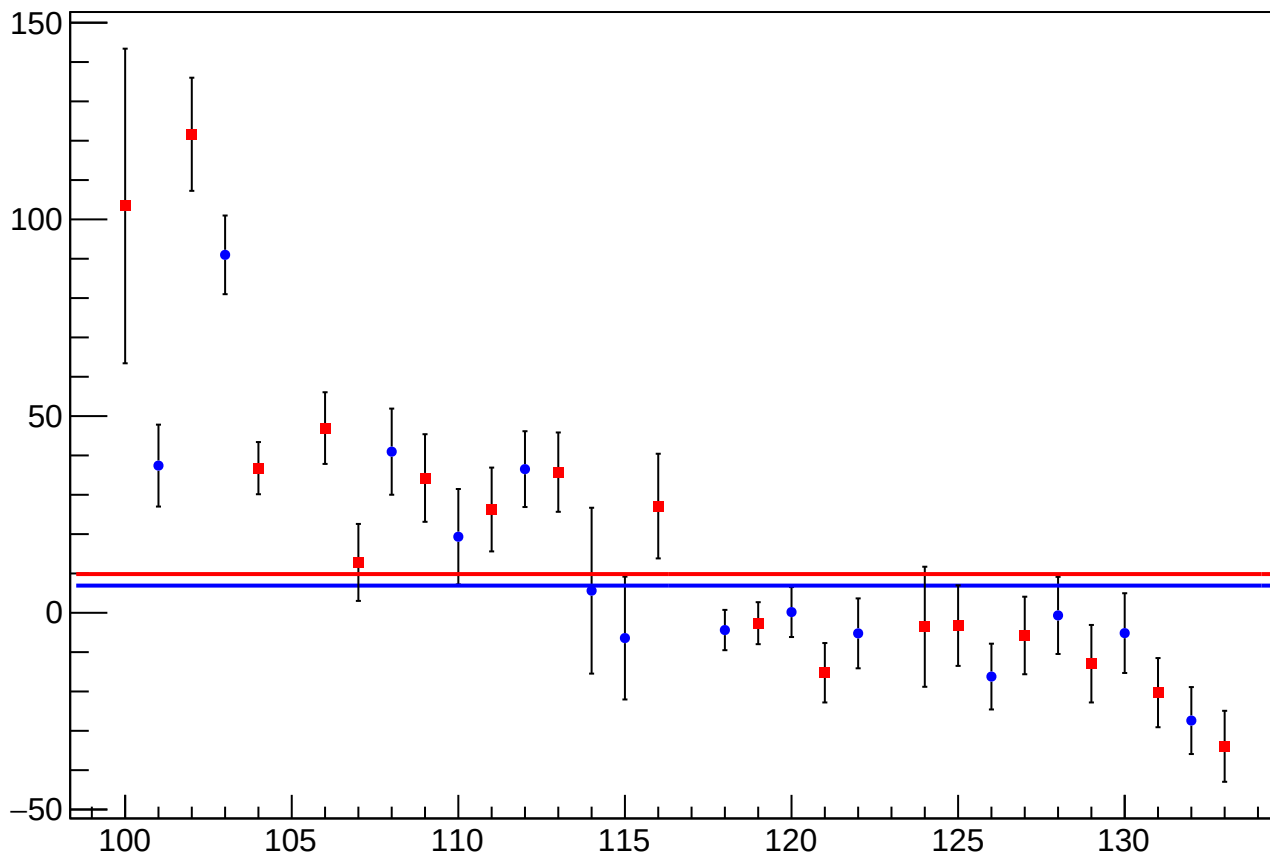
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-375.302 \pm 1.607$   $\chi^2/\text{NDF}$ : 2121.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 6.914+/-2.388  $\chi^2/\text{NDF}$ : 134.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9.843+/-2.262  $\chi^2/\text{NDF}$ : 176.6/16

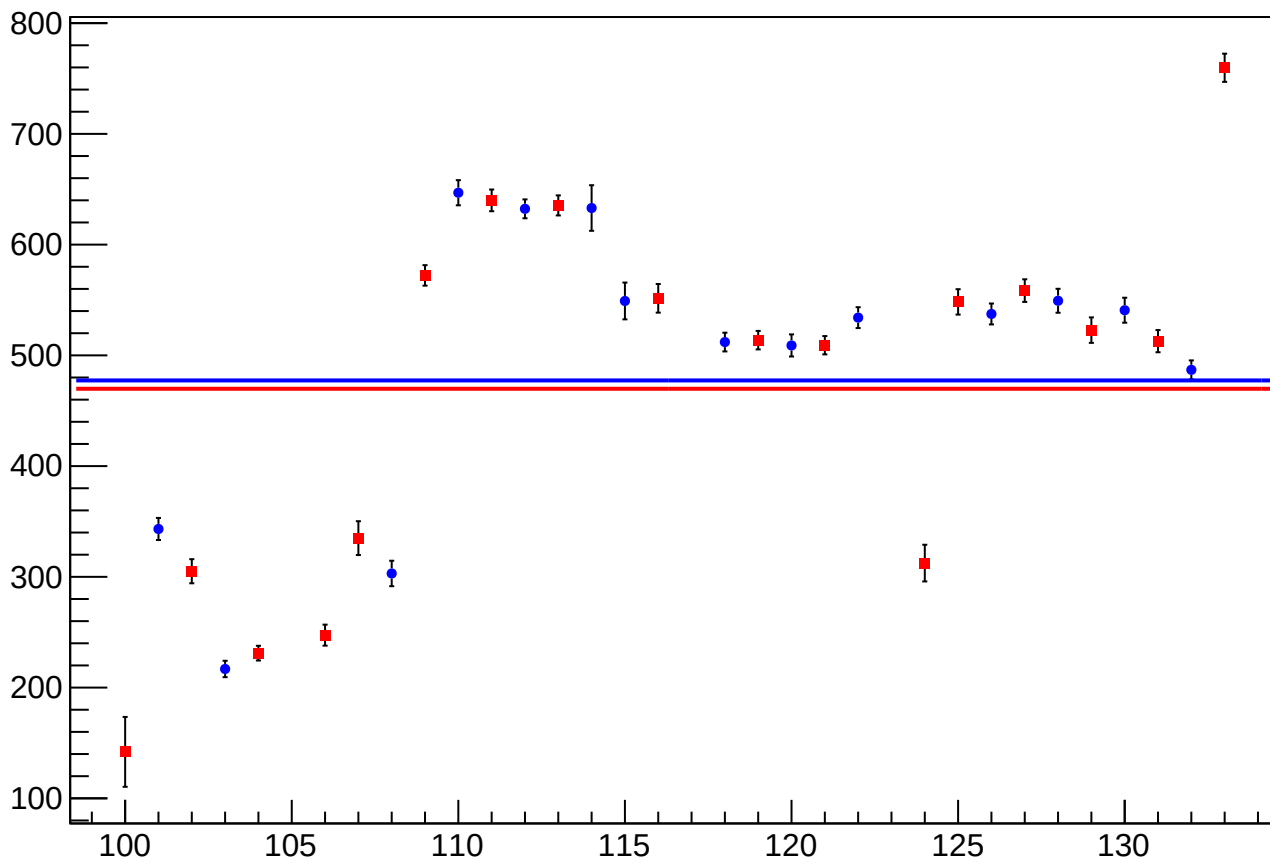
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8.458+/-1.642  $\chi^2/\text{NDF}$ : 311.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 477.365 $\pm$ 2.672  $\chi^2$ /NDF: 2460.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 469.831 $\pm$ 2.490  $\chi^2$ /NDF: 3874.6/16

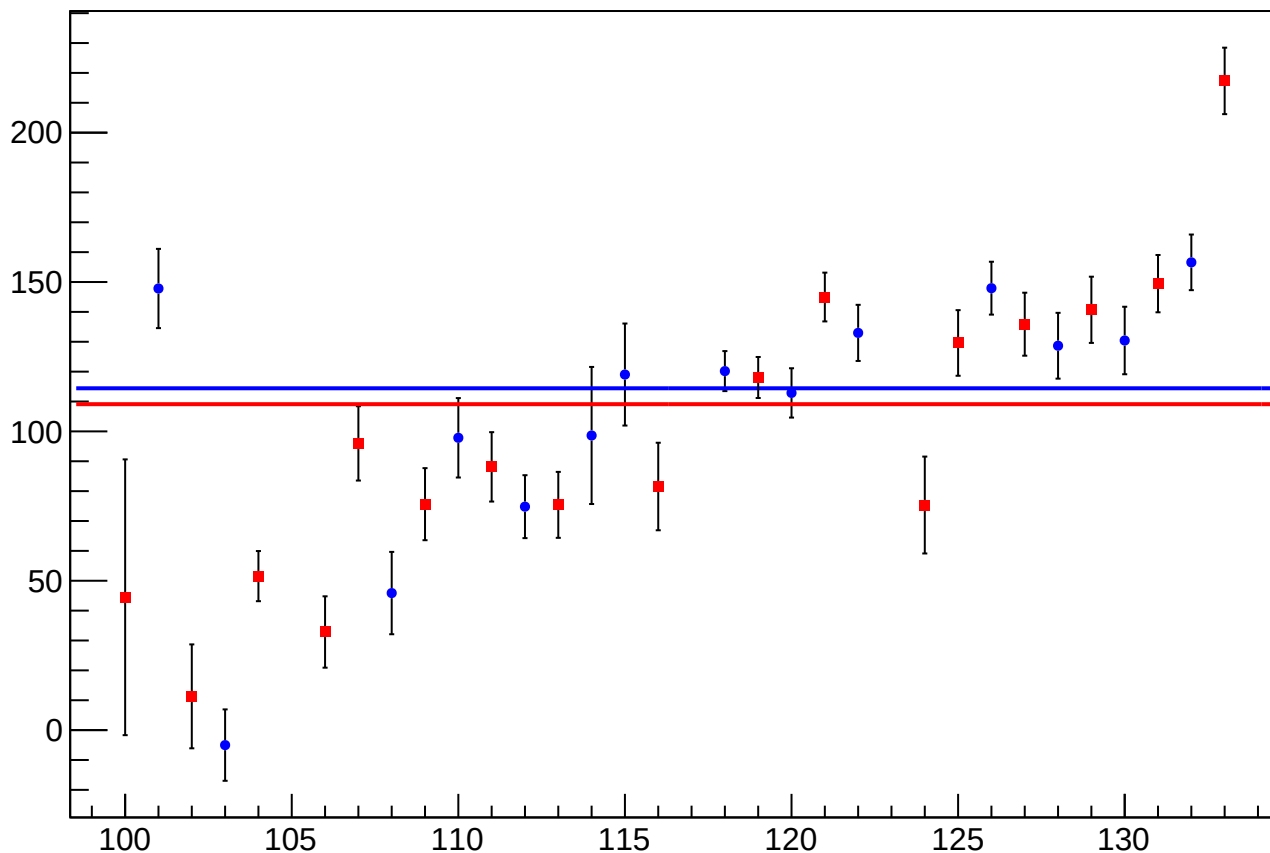
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 473.332 $\pm$ 1.822  $\chi^2$ /NDF: 6339.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 114.427+/-2.810  $\chi^2/\text{NDF}$ : 190.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 109.106+/-2.645  $\chi^2/\text{NDF}$ : 302.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

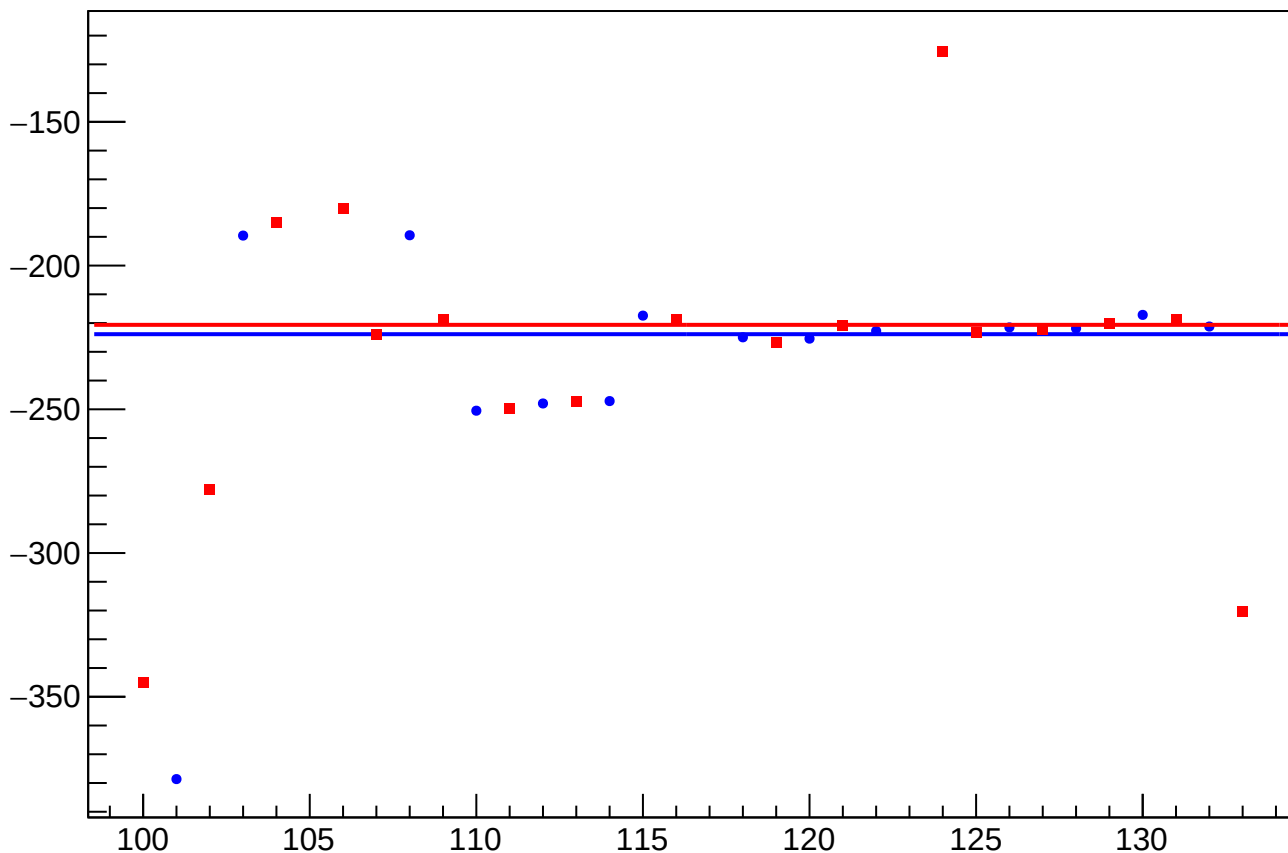
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 111.605+/-1.926  $\chi^2/\text{NDF}$ : 494.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-223.868 \pm 0.171$   $\chi^2/\text{NDF}$ : 87703.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-220.618 \pm 0.159$   $\chi^2/\text{NDF}$ : 59451.8/16

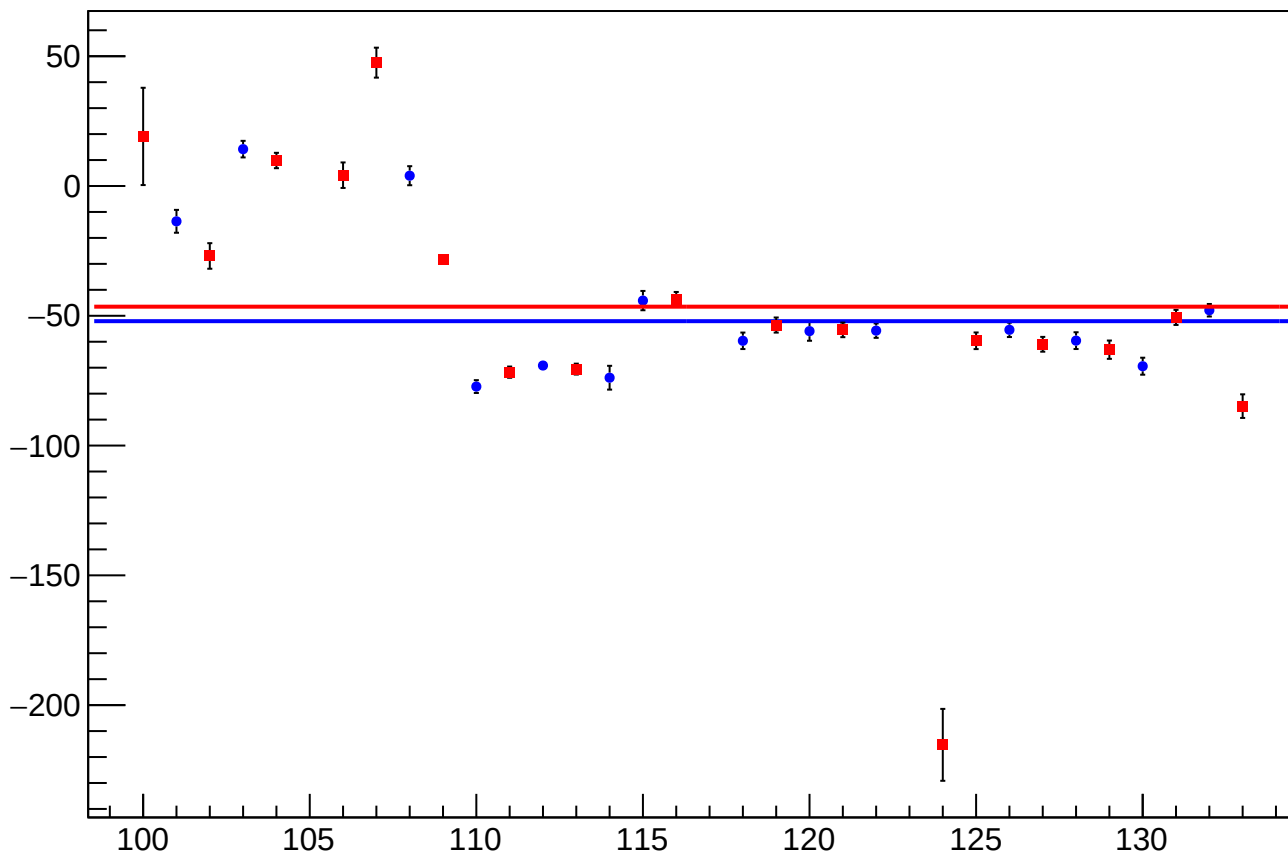
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-222.125 \pm 0.116$   $\chi^2/\text{NDF}$ : 147349.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -52.077 $\pm$ 0.800  $\chi^2$ /NDF: 995.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -46.492 $\pm$ 0.717  $\chi^2$ /NDF: 1471.4/16

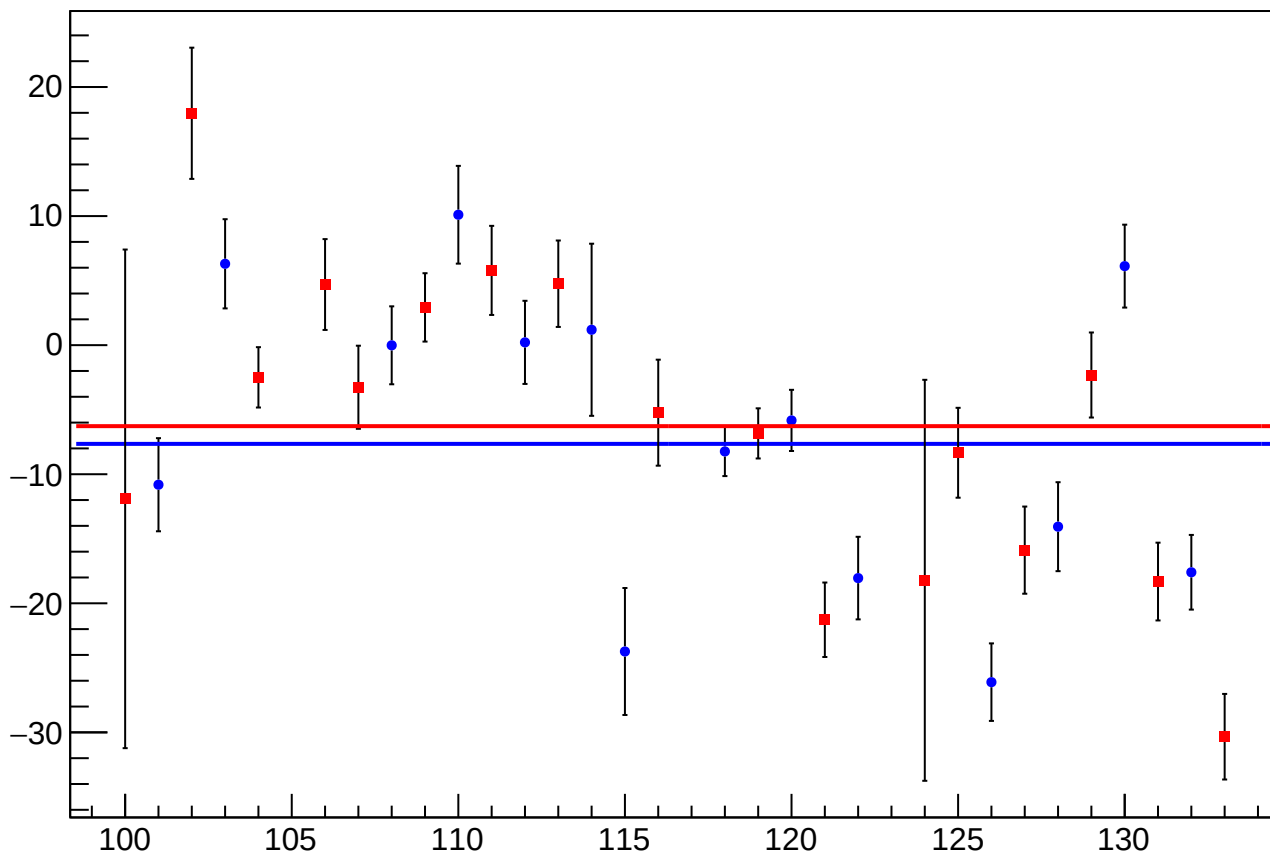
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -48.981 $\pm$ 0.534  $\chi^2$ /NDF: 2493.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-7.649 \pm 0.827$   $\chi^2/\text{NDF}$ : 146.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-6.275 \pm 0.783$   $\chi^2/\text{NDF}$ : 177.5/16

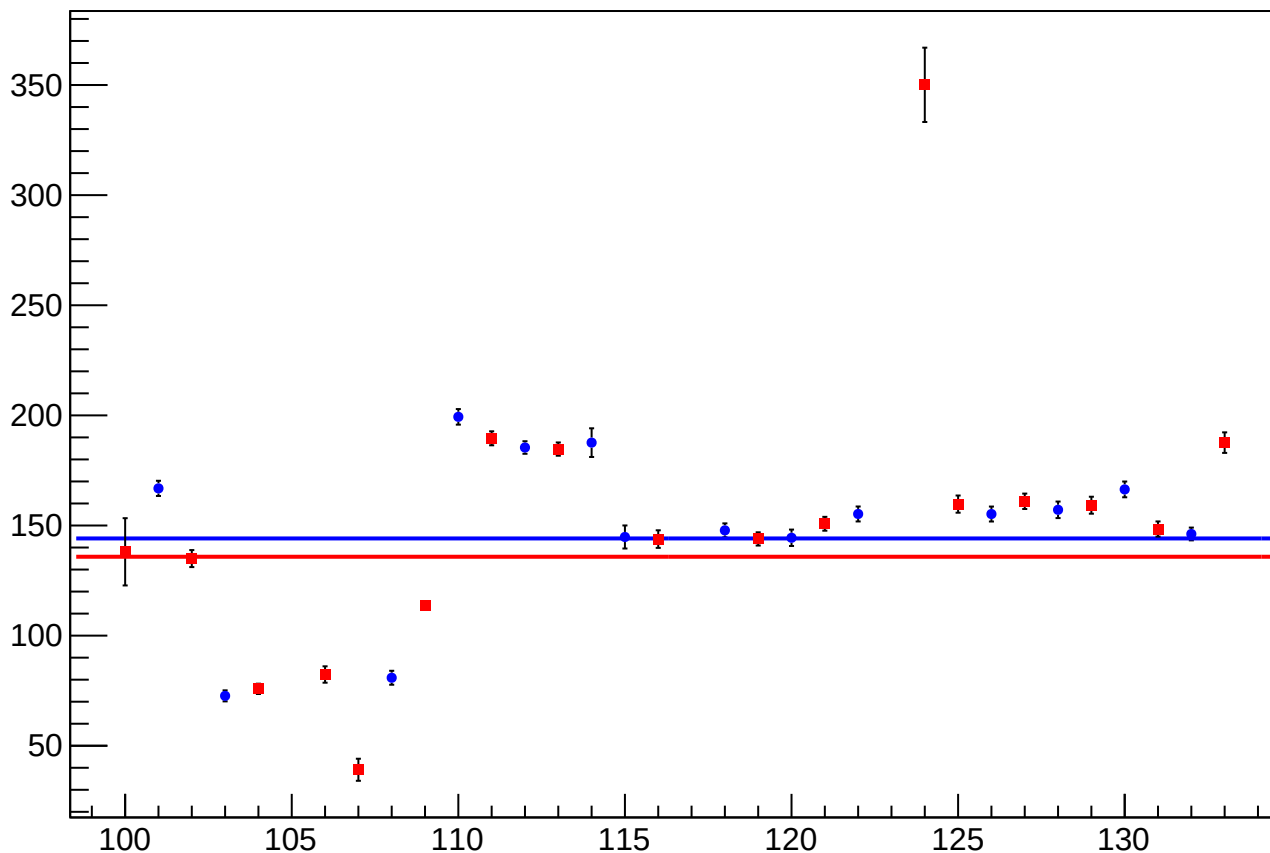
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-6.925 \pm 0.569$   $\chi^2/\text{NDF}$ : 325.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 144.124 $\pm$ 0.905  $\chi^2$ /NDF: 1827.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 135.815 $\pm$ 0.847  $\chi^2$ /NDF: 2343.1/16

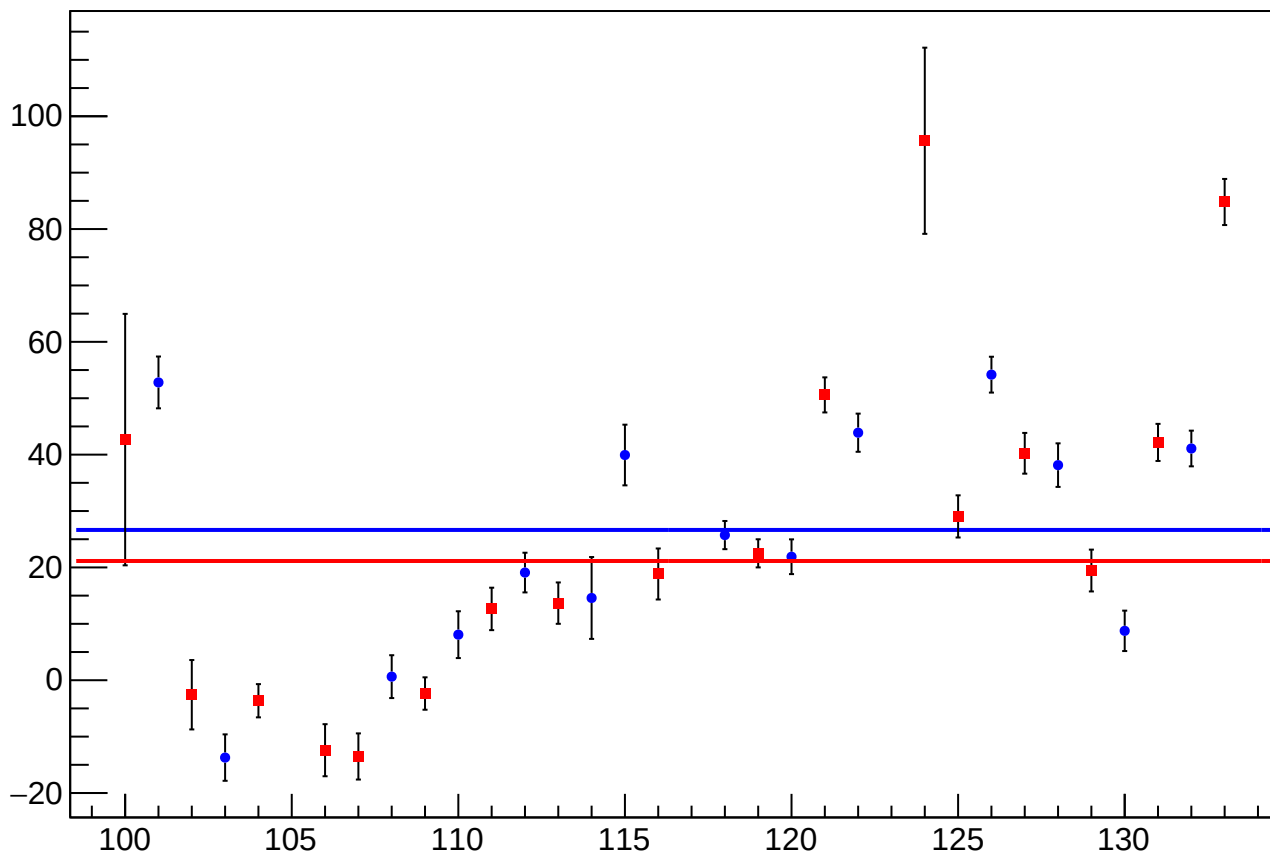
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 139.692 $\pm$ 0.619  $\chi^2$ /NDF: 4215.5/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 26.647 $\pm$ 0.969  $\chi^2$ /NDF: 367.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.141 $\pm$ 0.910  $\chi^2$ /NDF: 713.9/16

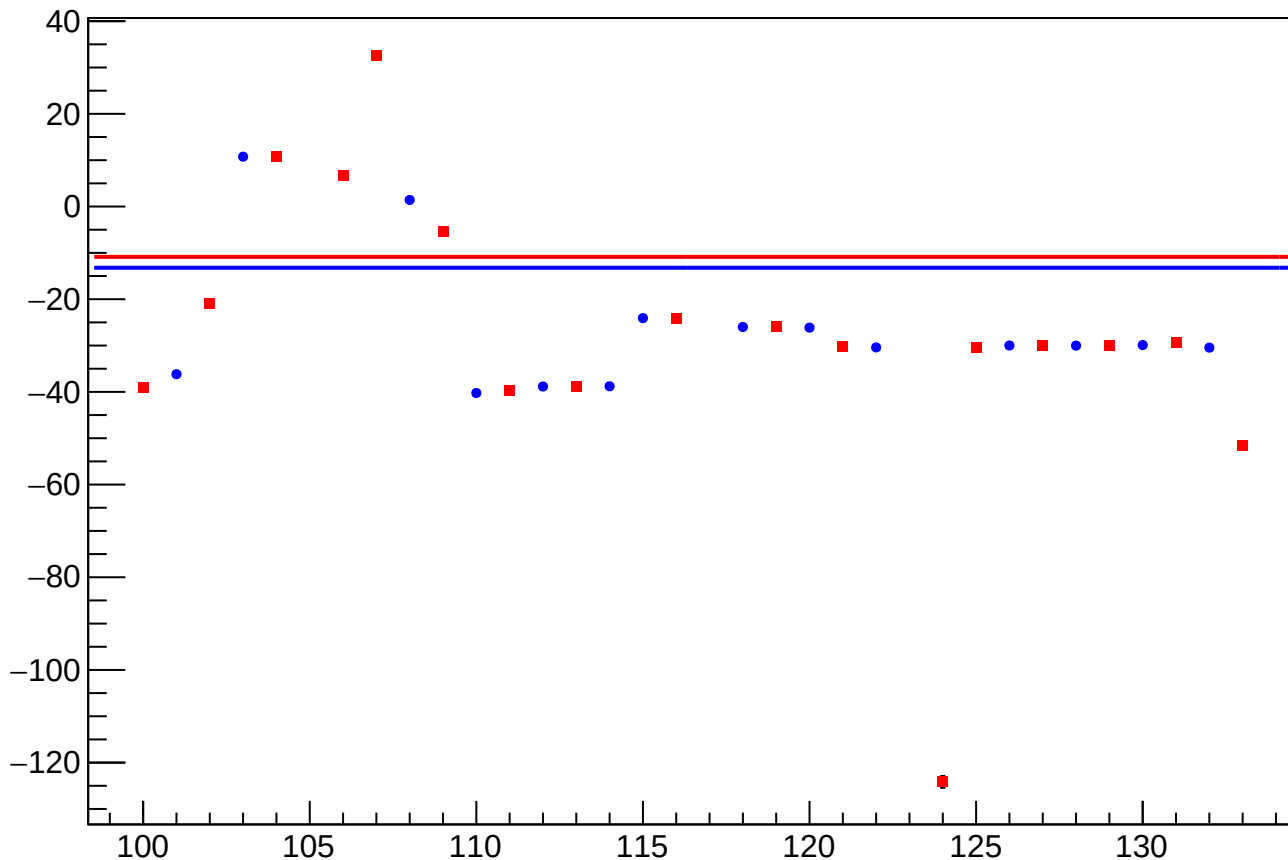
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.722 $\pm$ 0.664  $\chi^2$ /NDF: 1098.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -13.212 $\pm$ 0.057  $\chi^2$ /NDF: 127117.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -10.863 $\pm$ 0.054  $\chi^2$ /NDF: 175241.4/16

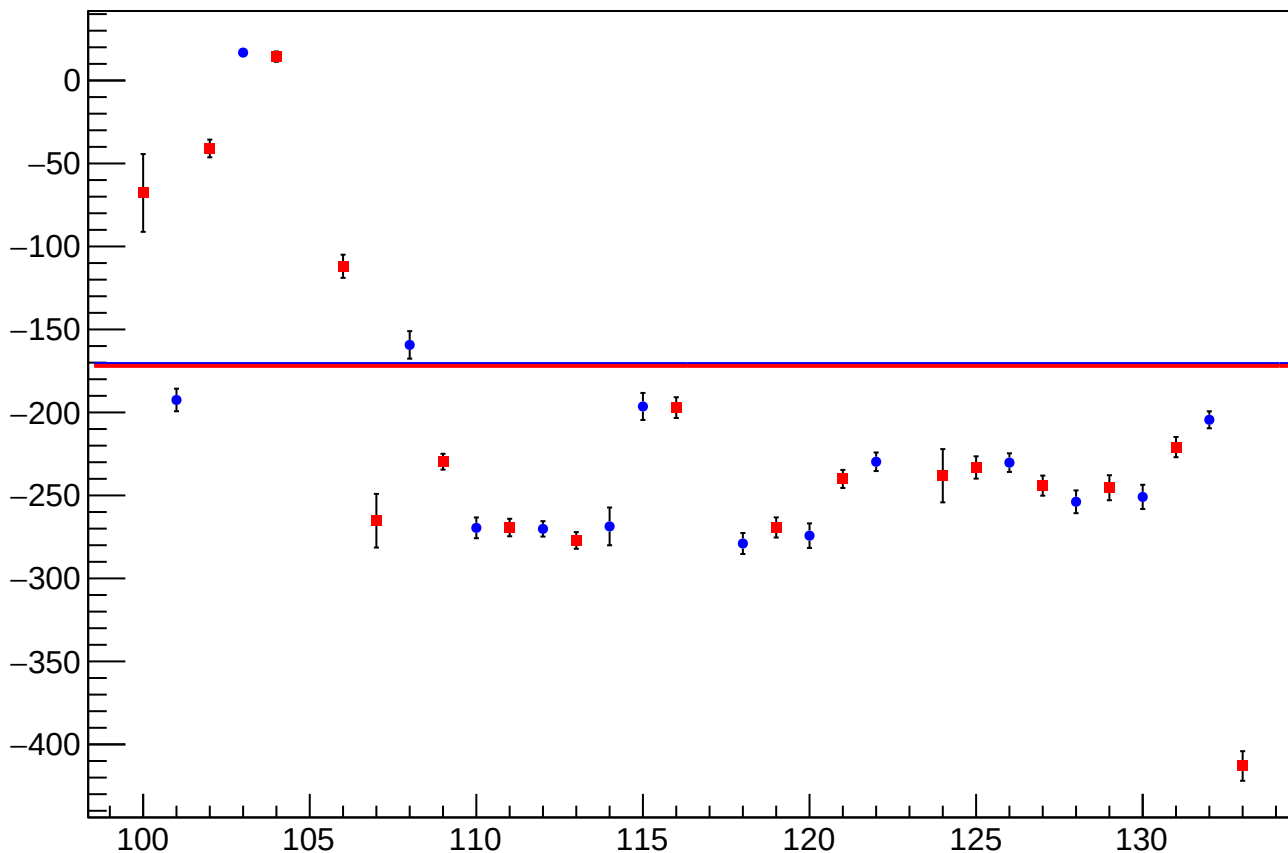
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -11.993 $\pm$ 0.039  $\chi^2$ /NDF: 303255.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -170.846+/-1.524  $\chi^2/\text{NDF}$ : 5848.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -171.941+/-1.441  $\chi^2/\text{NDF}$ : 6821.0/16

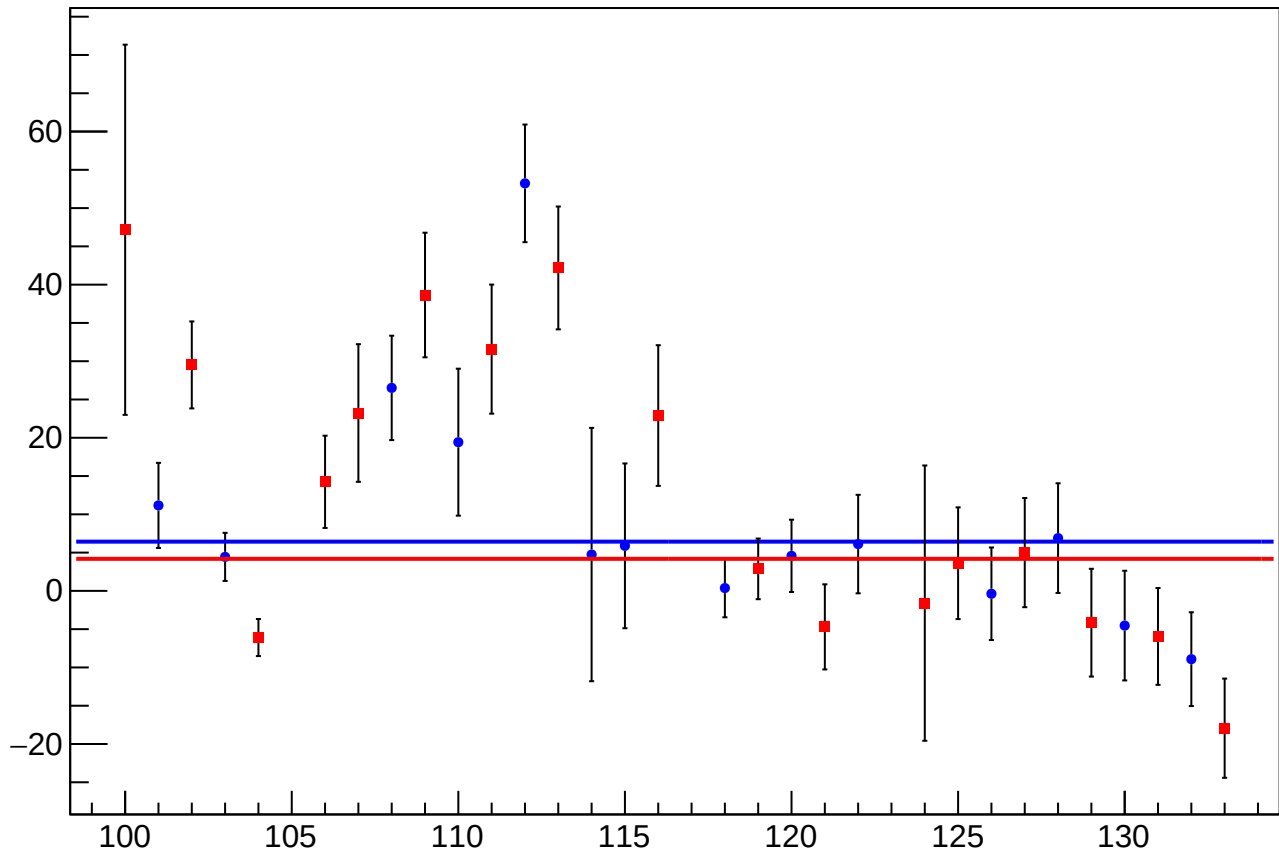
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -171.424+/-1.047  $\chi^2/\text{NDF}$ : 12670.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 6.432 $\pm$ 1.532  $\chi^2$ /NDF: 61.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.187 $\pm$ 1.405  $\chi^2$ /NDF: 121.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

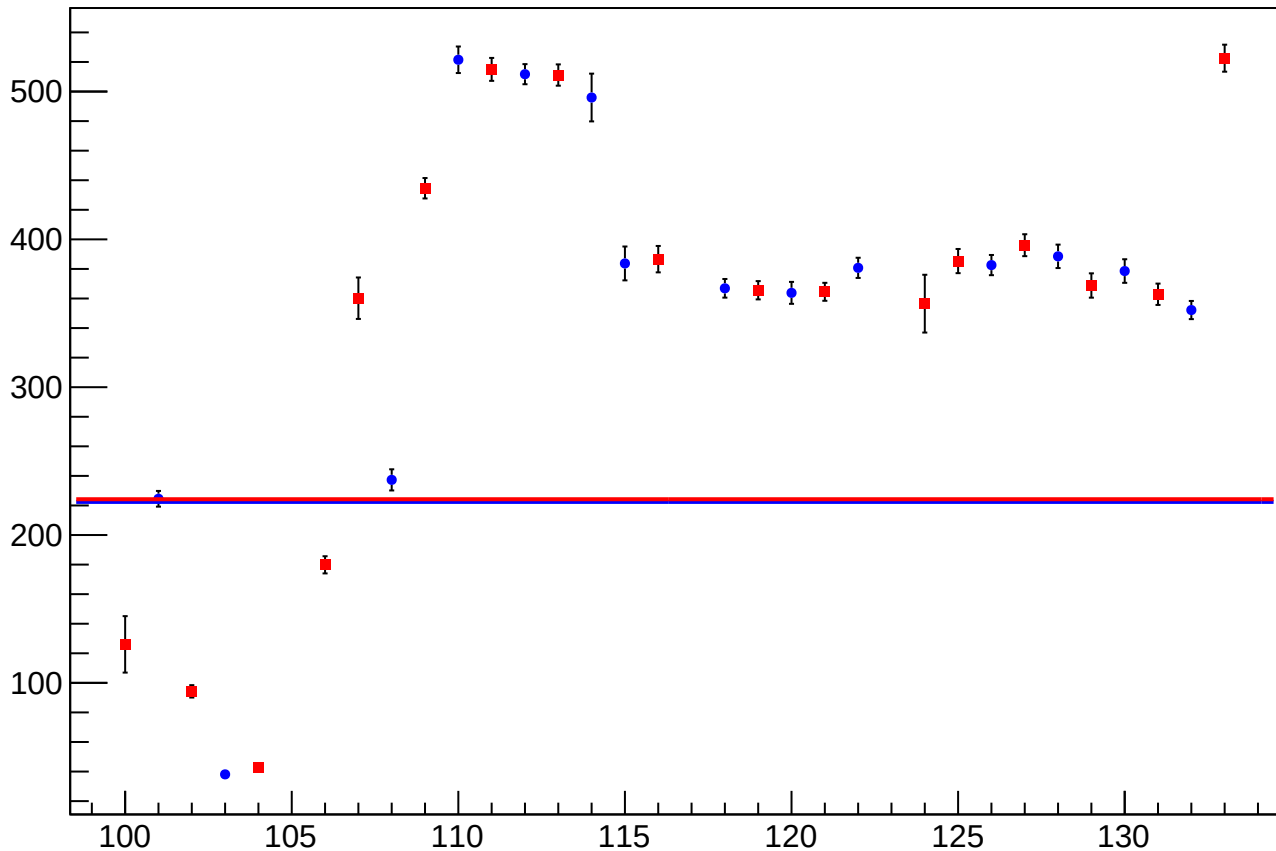
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.212 $\pm$ 1.036  $\chi^2$ /NDF: 184.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 222.406 $\pm$ 1.525  $\chi^2$ /NDF: 12950.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 224.217 $\pm$ 1.465  $\chi^2$ /NDF: 14645.7/16

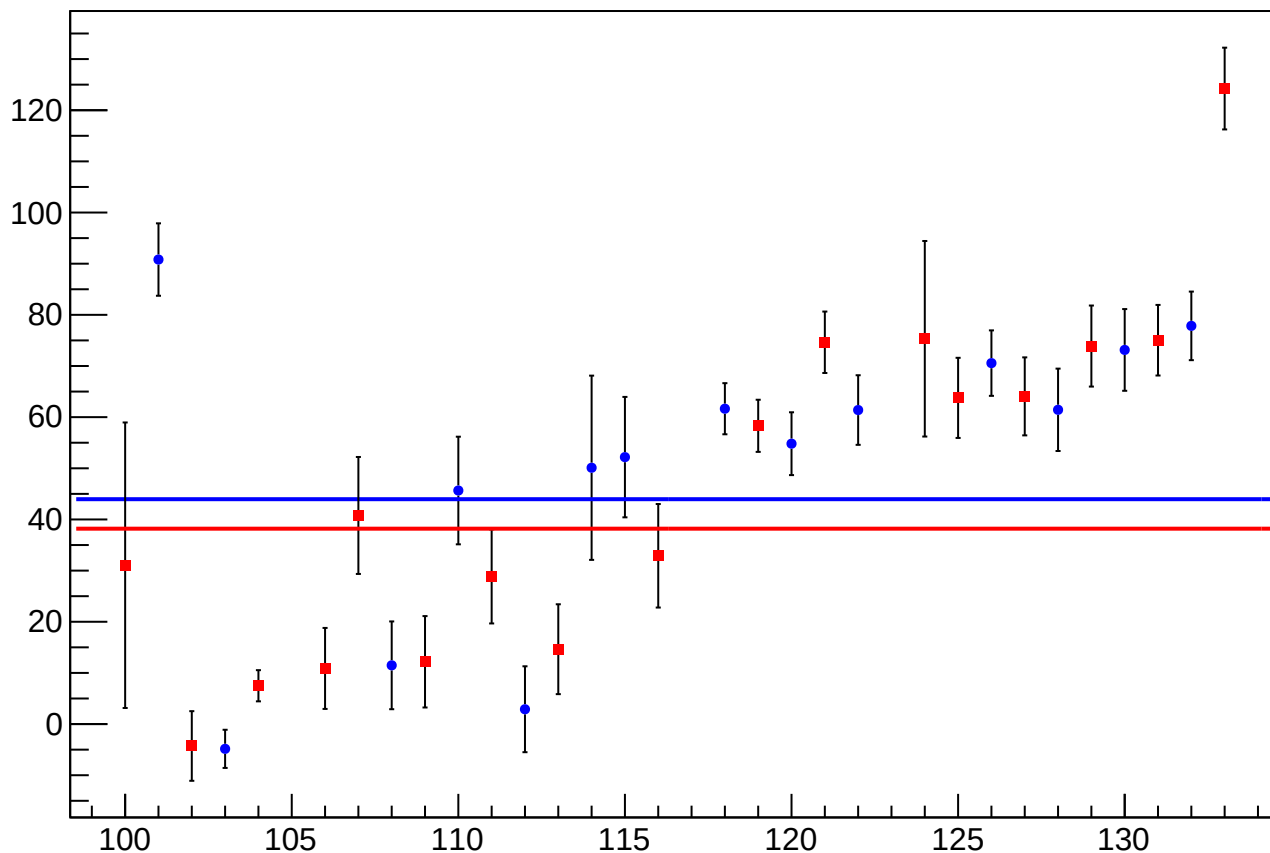
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 223.347 $\pm$ 1.057  $\chi^2$ /NDF: 27597.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 43.961+/-1.811  $\chi^2/\text{NDF}$ : 337.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38.197+/-1.676  $\chi^2/\text{NDF}$ : 412.4/16

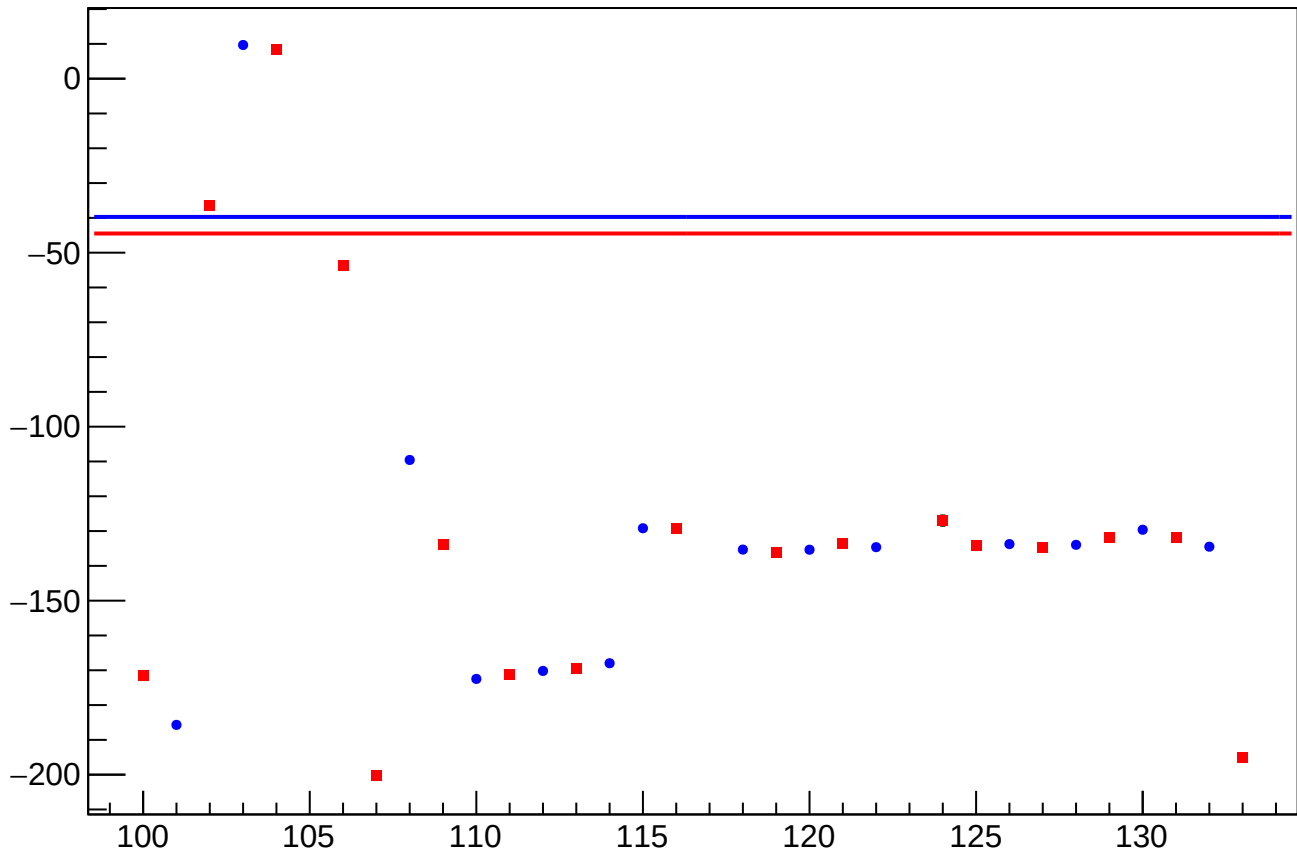
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.856+/-1.230  $\chi^2/\text{NDF}$ : 754.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-39.726 \pm 0.079$   $\chi^2/\text{NDF}$ : 847100.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-44.489 \pm 0.079$   $\chi^2/\text{NDF}$ : 654941.3/16

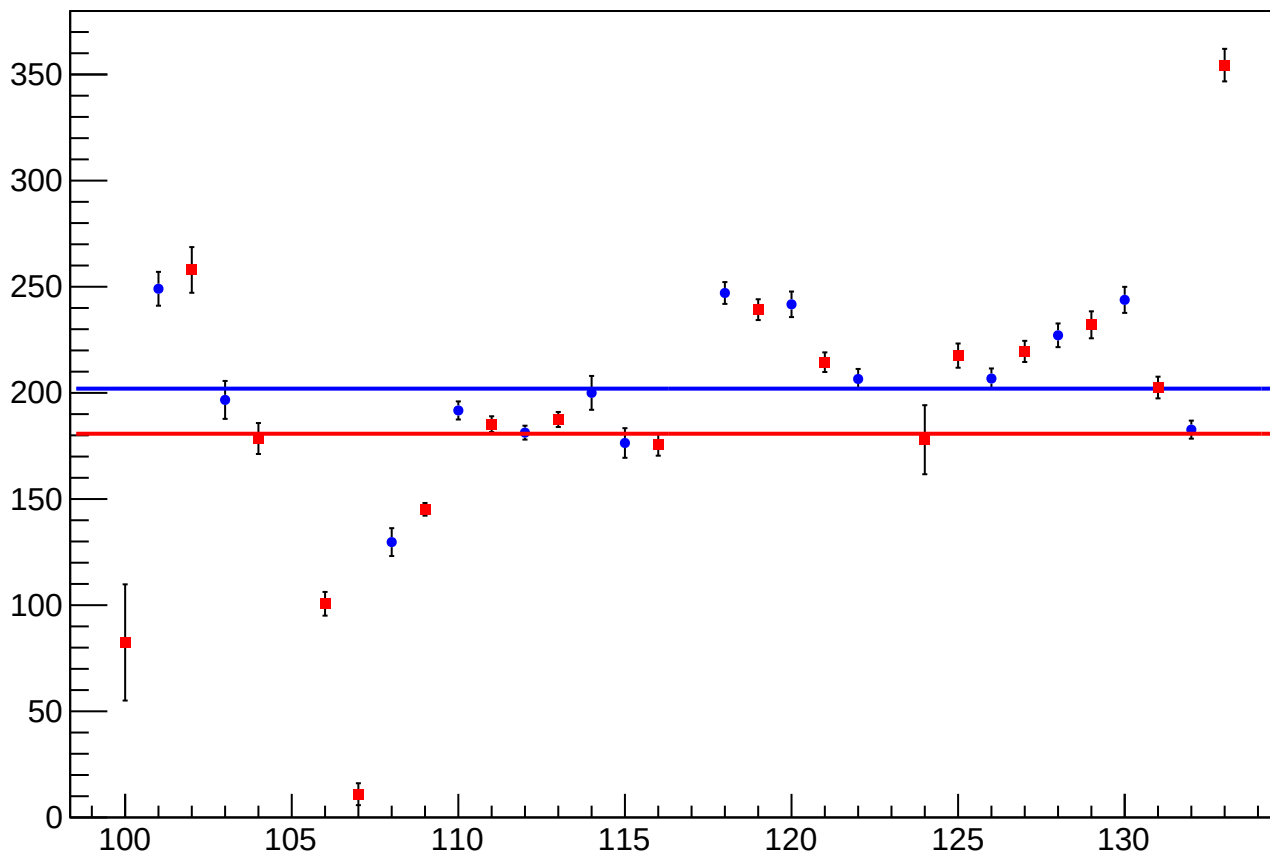
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-42.105 \pm 0.056$   $\chi^2/\text{NDF}$ : 1503845.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 202.005 $\pm$ 1.408  $\chi^2$ /NDF: 425.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 180.759 $\pm$ 1.248  $\chi^2$ /NDF: 2394.7/16

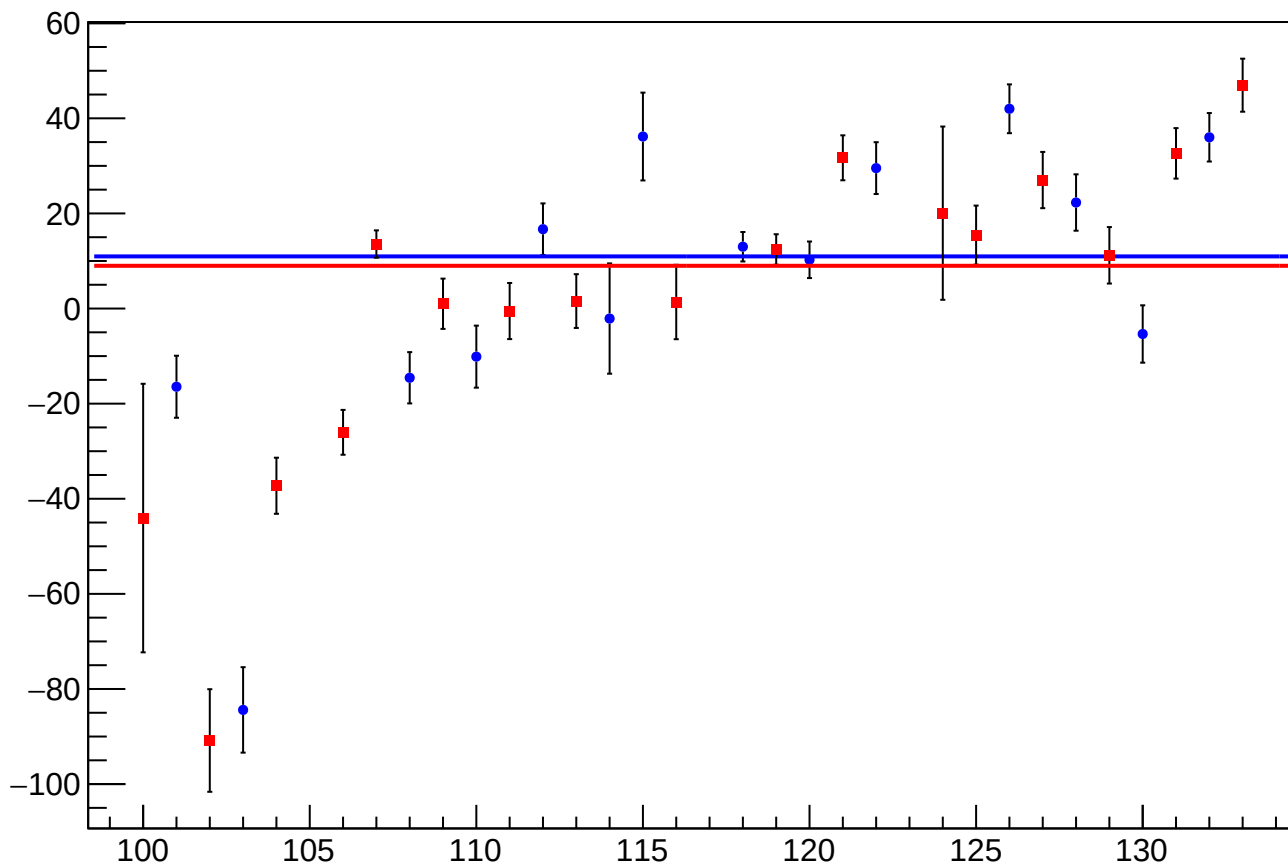
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 190.110 $\pm$ 0.934  $\chi^2$ /NDF: 2947.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 10.964 $\pm$ 1.436  $\chi^2$ /NDF: 256.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8.989 $\pm$ 1.278  $\chi^2$ /NDF: 317.2/16

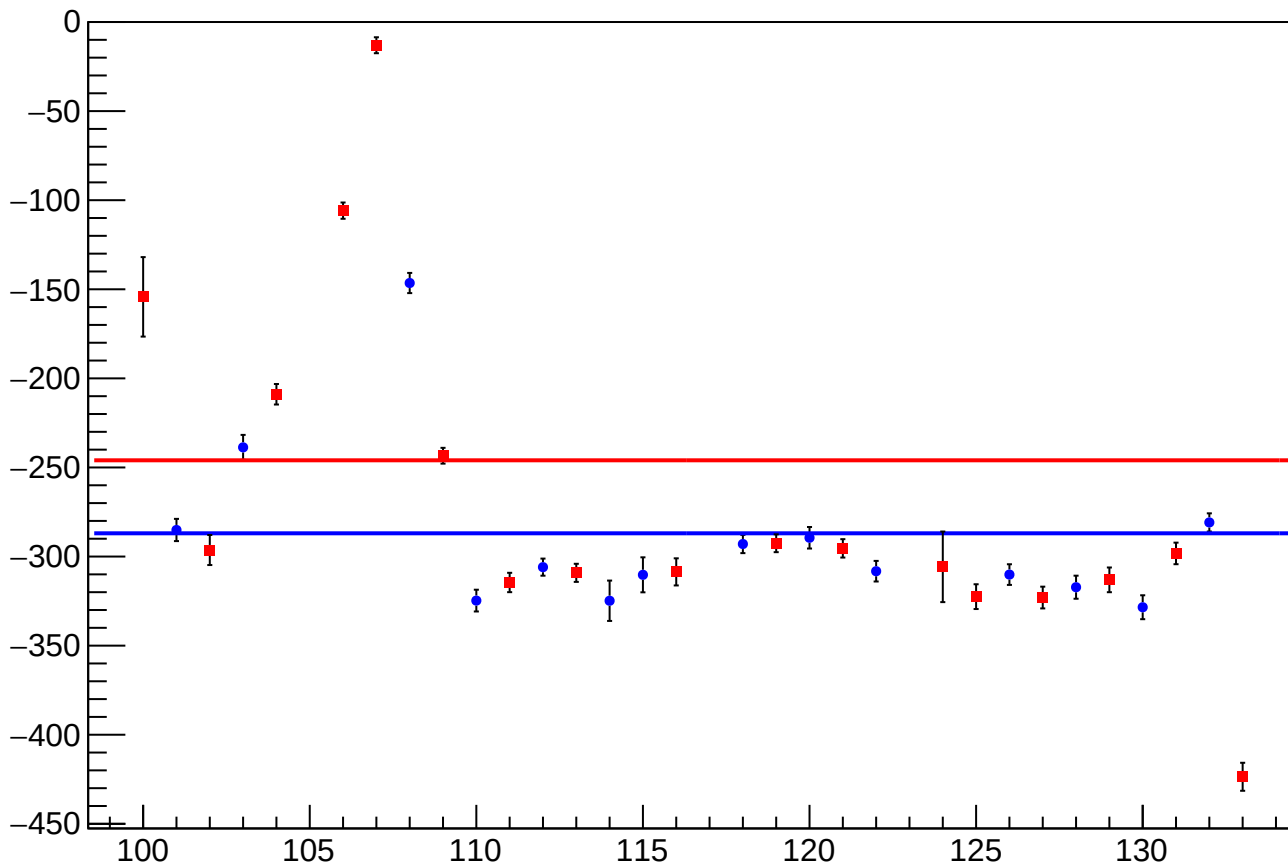
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.861 $\pm$ 0.954  $\chi^2$ /NDF: 575.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -286.952+/-1.632  $\chi^2/\text{NDF}$ : 825.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -245.982+/-1.448  $\chi^2/\text{NDF}$ : 5272.6/16

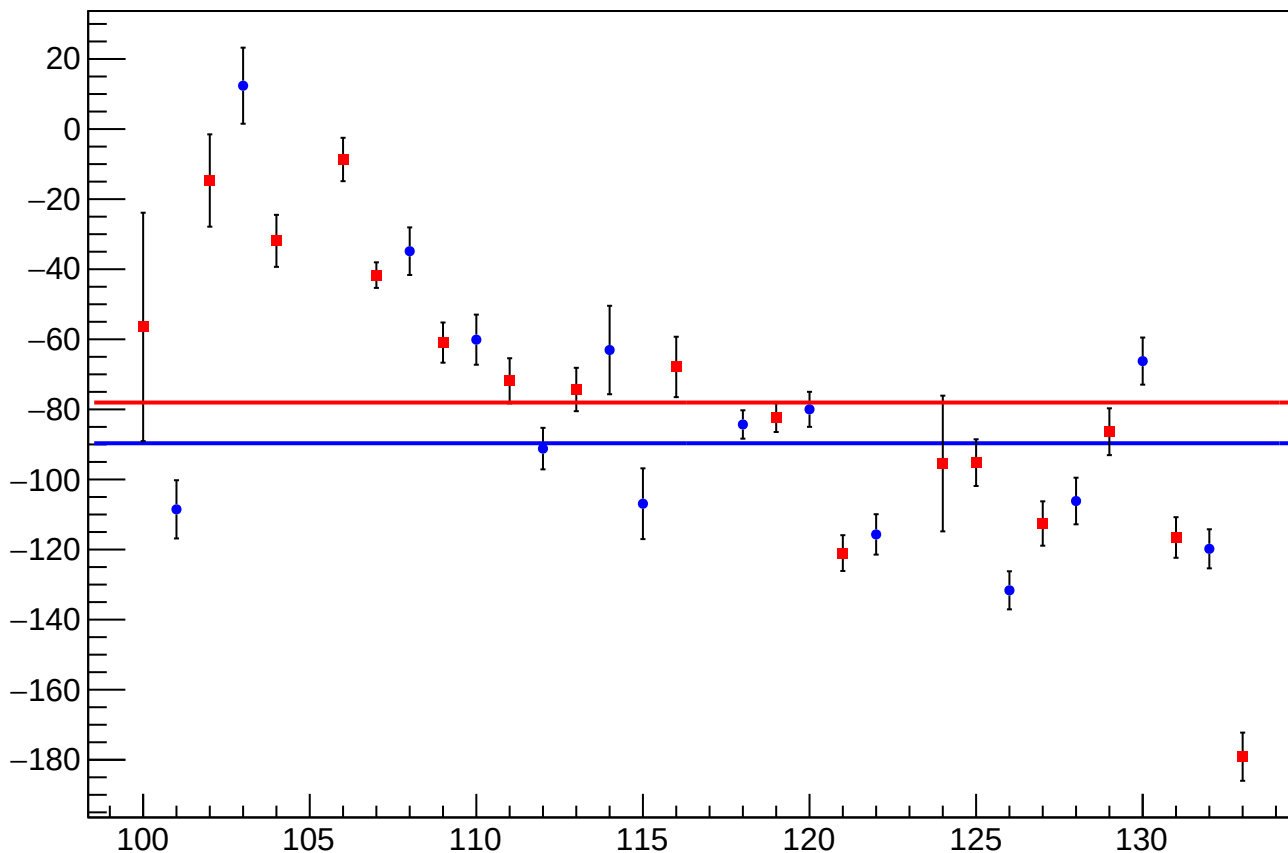
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -264.027+/-1.083  $\chi^2/\text{NDF}$ : 6450.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -89.663 $\pm$ 1.689  $\chi^2$ /NDF: 316.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -78.045 $\pm$ 1.506  $\chi^2$ /NDF: 669.6/16

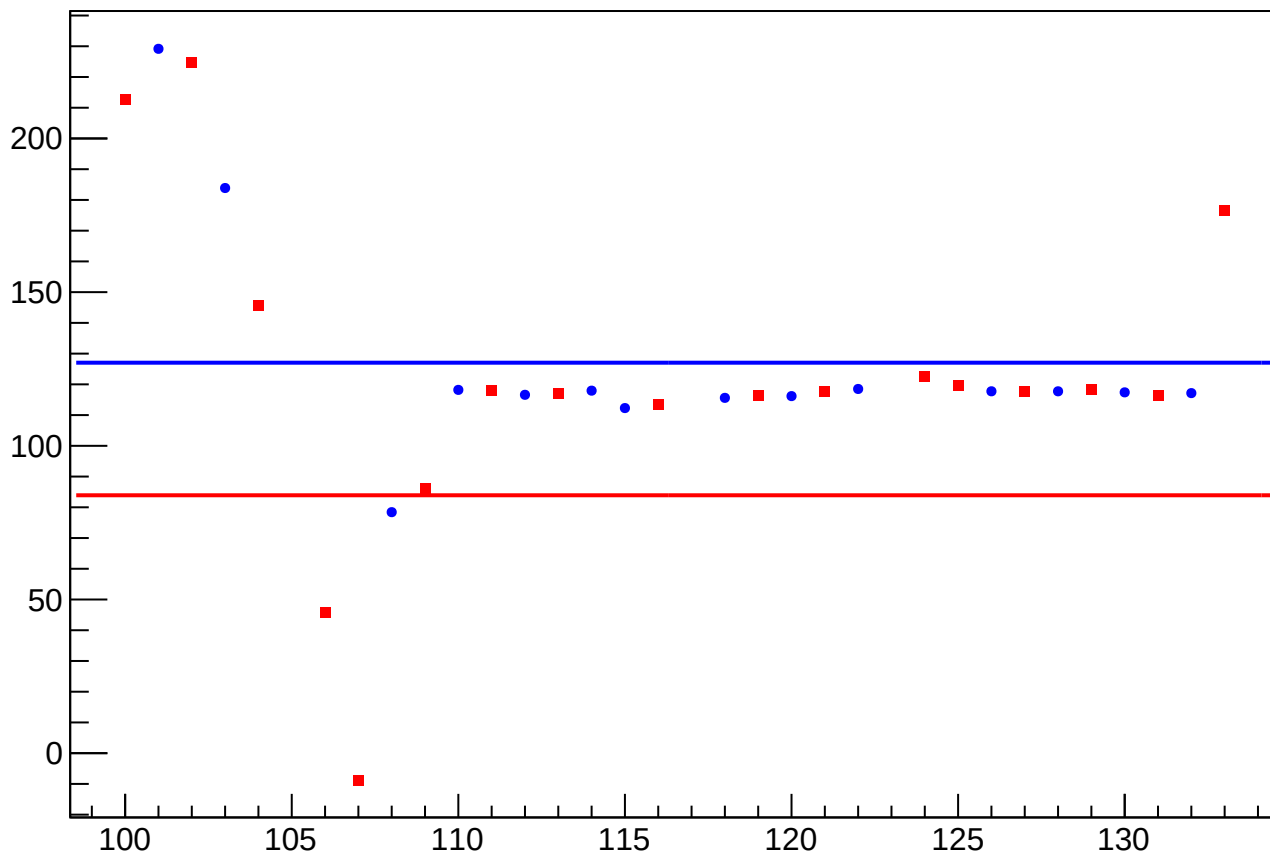
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -83.192 $\pm$ 1.124  $\chi^2$ /NDF: 1012.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 127.047 $\pm$ 0.109  $\chi^2$ /NDF: 160373.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 83.912 $\pm$ 0.089  $\chi^2$ /NDF: 569625.5/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

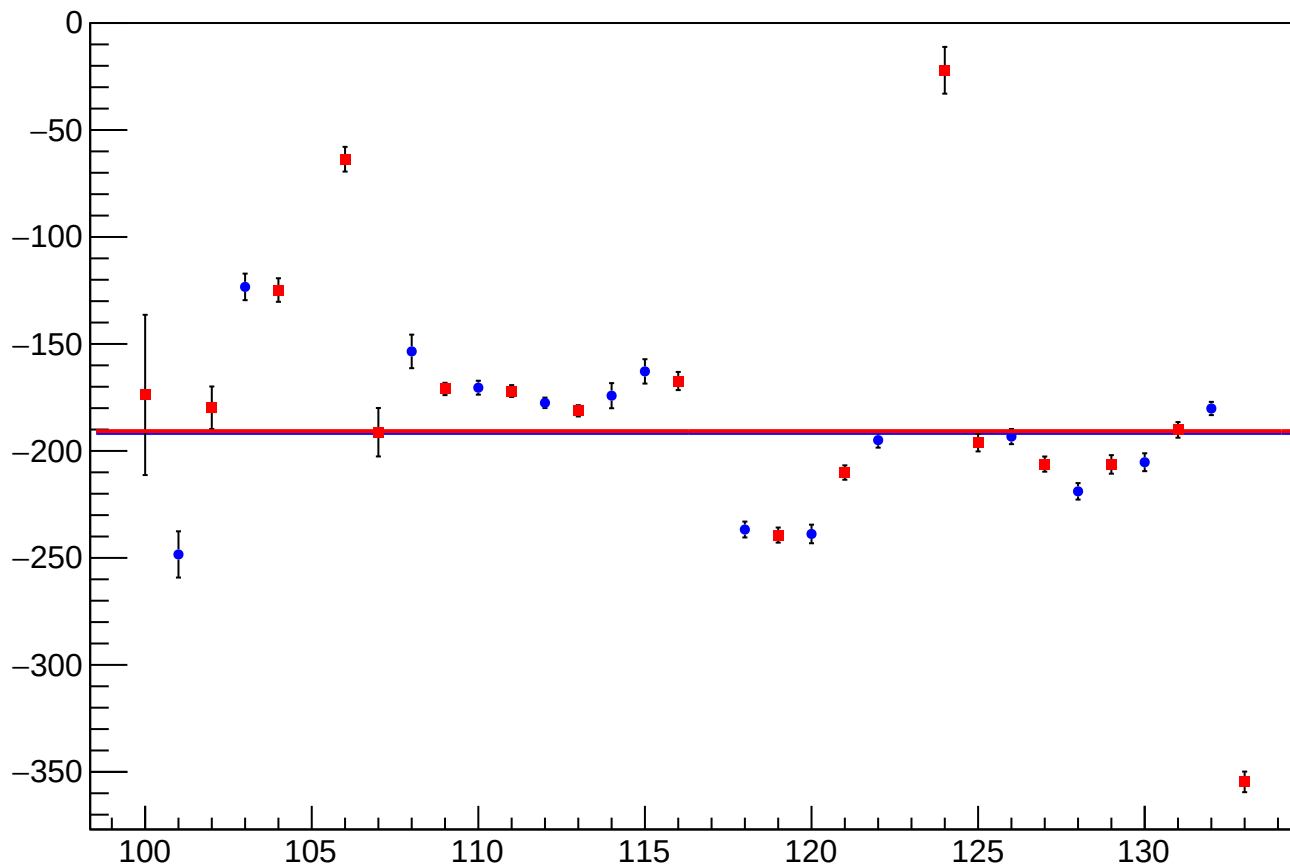
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 101.052 $\pm$ 0.069  $\chi^2$ /NDF: 824384.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-191.560 \pm 1.061$   $\chi^2/\text{NDF}$ : 623.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-190.753 \pm 0.990$   $\chi^2/\text{NDF}$ : 2419.3/16

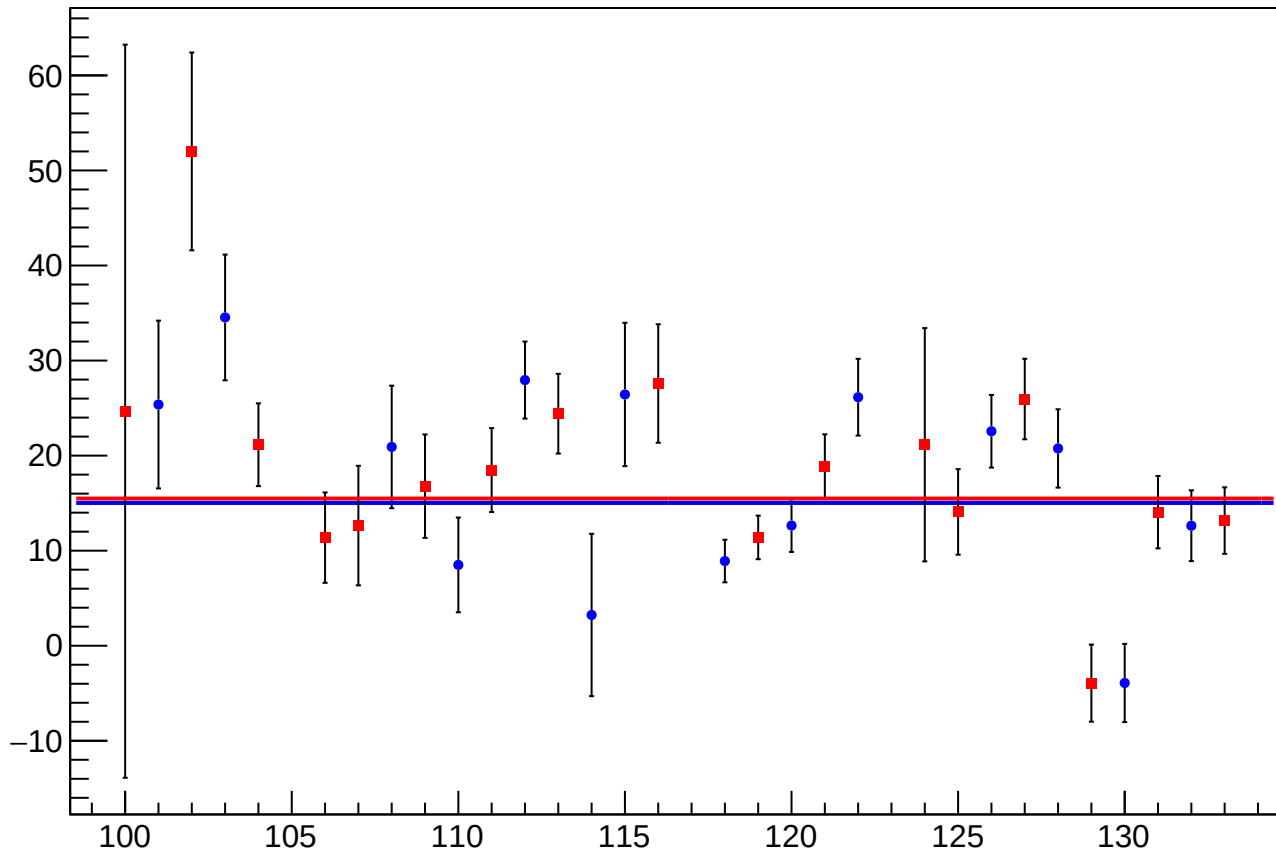
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-191.128 \pm 0.724$   $\chi^2/\text{NDF}$ : 3042.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 15.019+/-1.090  $\chi^2$ /NDF: 70.2/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 15.484+/-1.054  $\chi^2$ /NDF: 57.9/16

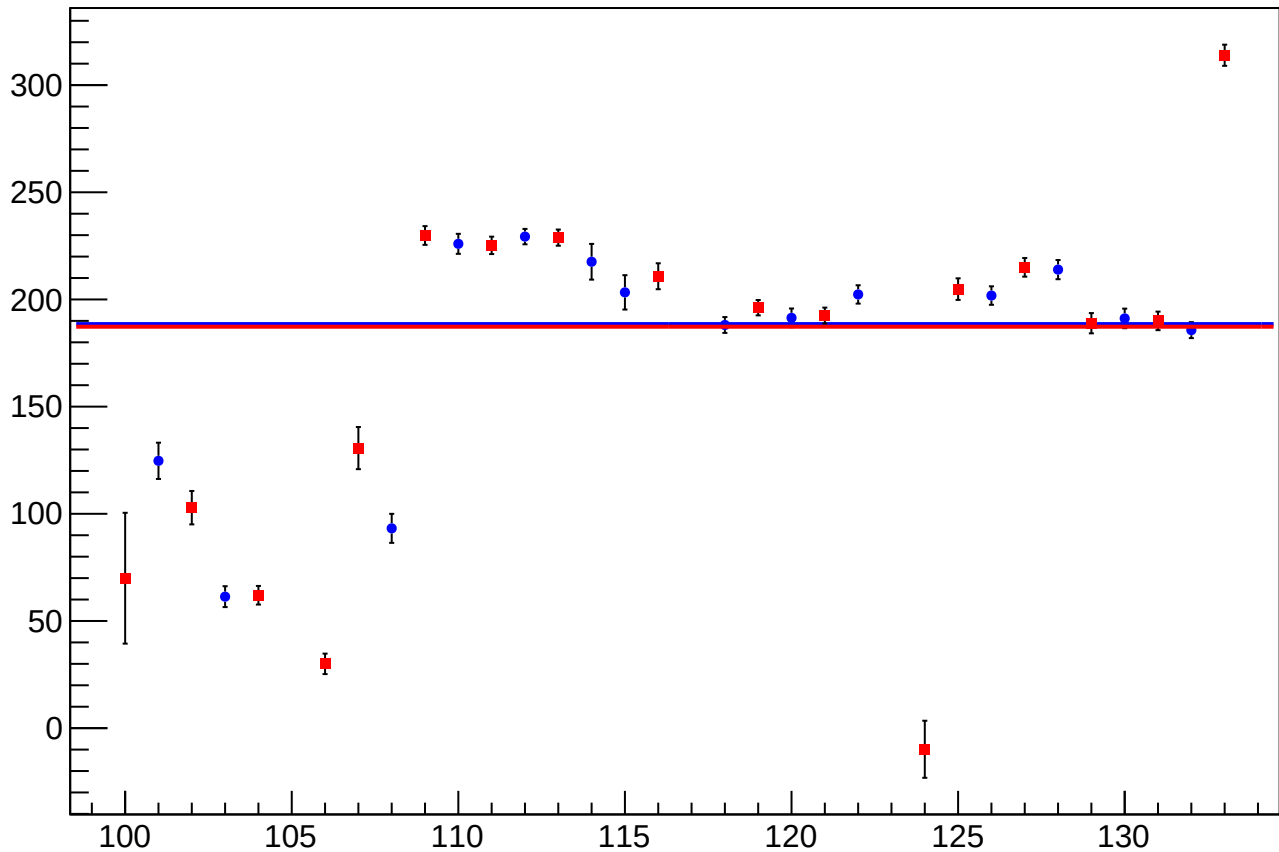
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 15.259+/-0.758  $\chi^2$ /NDF: 128.2/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 188.504+/-1.254  $\chi^2/\text{NDF}$ : 1199.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 187.285+/-1.176  $\chi^2/\text{NDF}$ : 3342.7/16

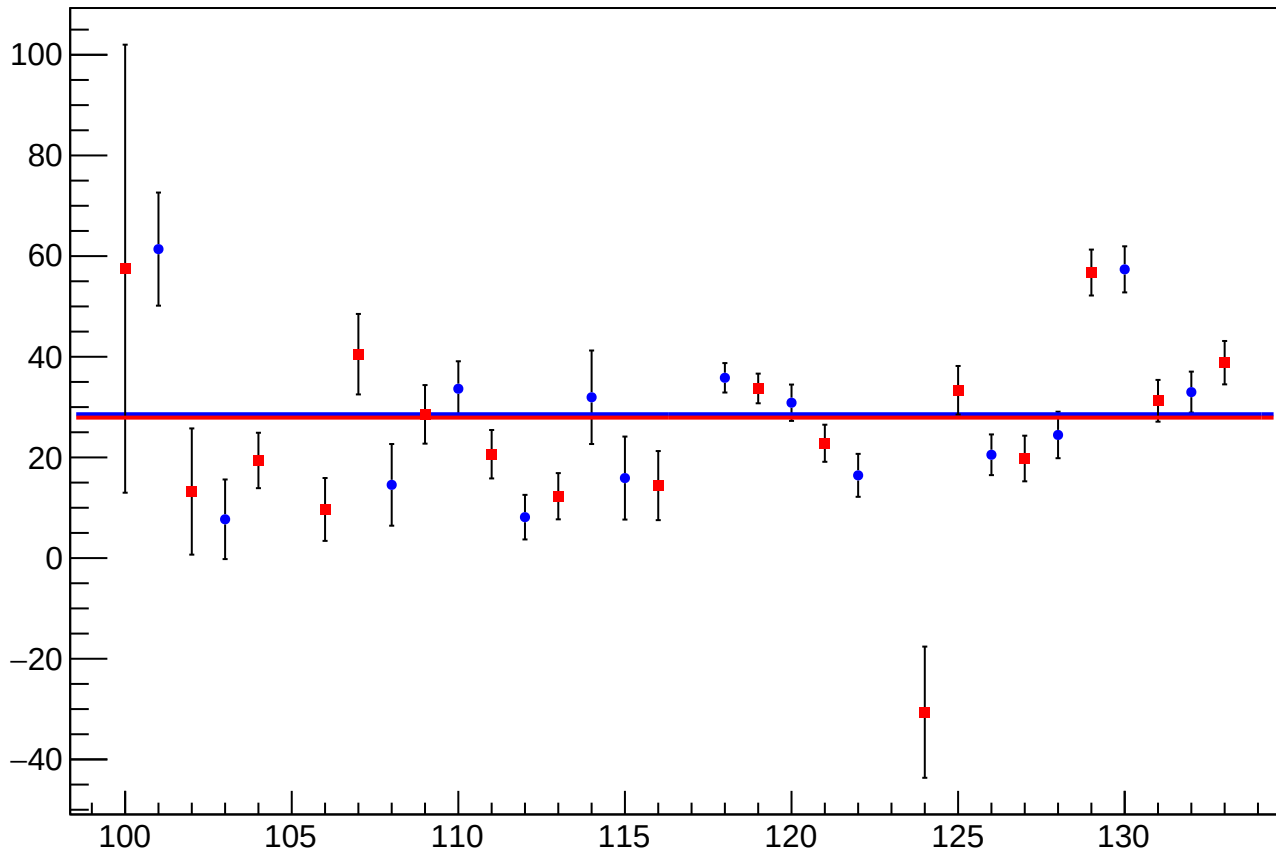
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 187.855+/-0.858  $\chi^2/\text{NDF}$ : 4542.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 28.582 $\pm$ 1.276  $\chi^2$ /NDF: 103.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27.911 $\pm$ 1.223  $\chi^2$ /NDF: 110.4/16

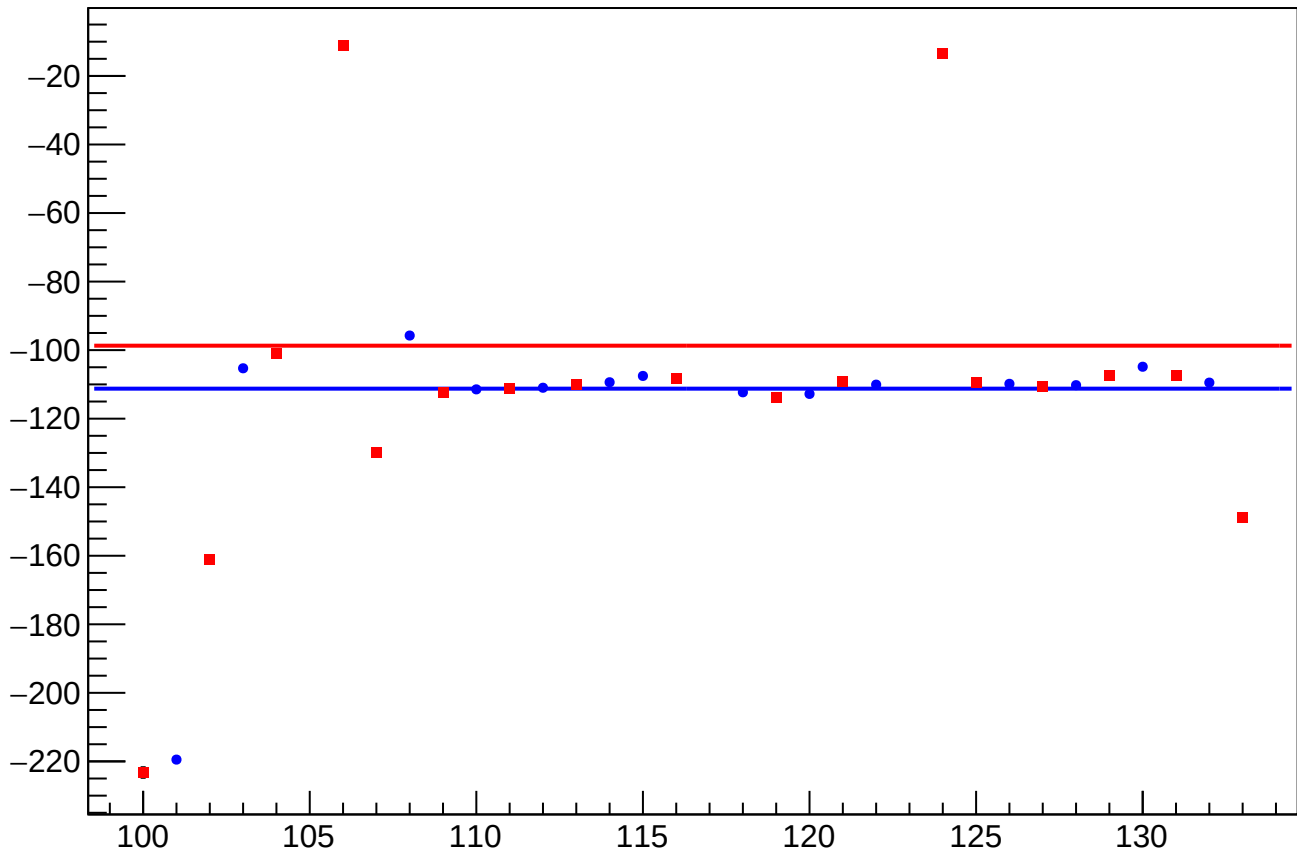
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28.232 $\pm$ 0.883  $\chi^2$ /NDF: 213.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -111.244+/-0.088  $\chi^2/\text{NDF}$ : 50795.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -98.703+/-0.079  $\chi^2/\text{NDF}$ : 279286.7/16

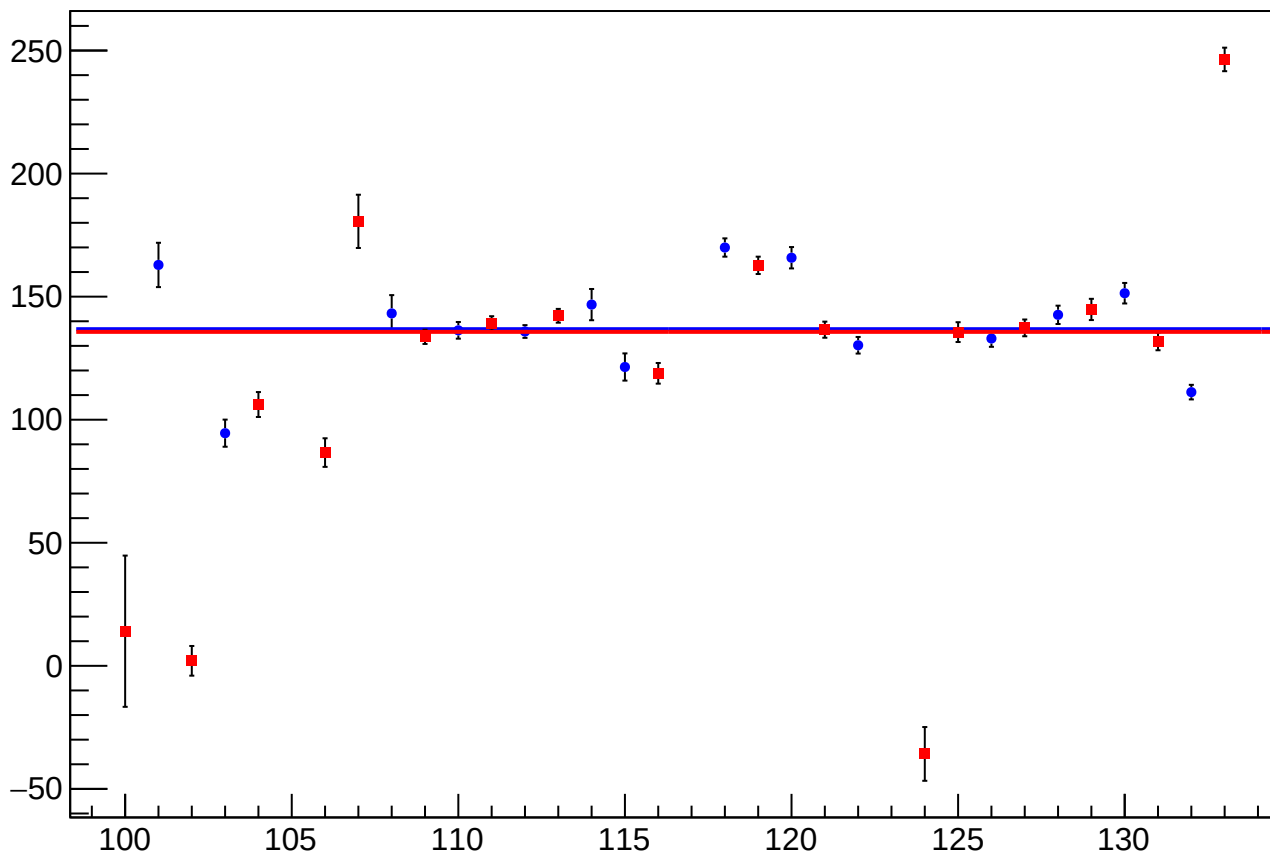
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -104.283+/-0.059  $\chi^2/\text{NDF}$ : 341332.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 136.779 $\pm$ 1.053  $\chi^2$ /NDF: 296.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 135.698 $\pm$ 0.984  $\chi^2$ /NDF: 1500.4/16

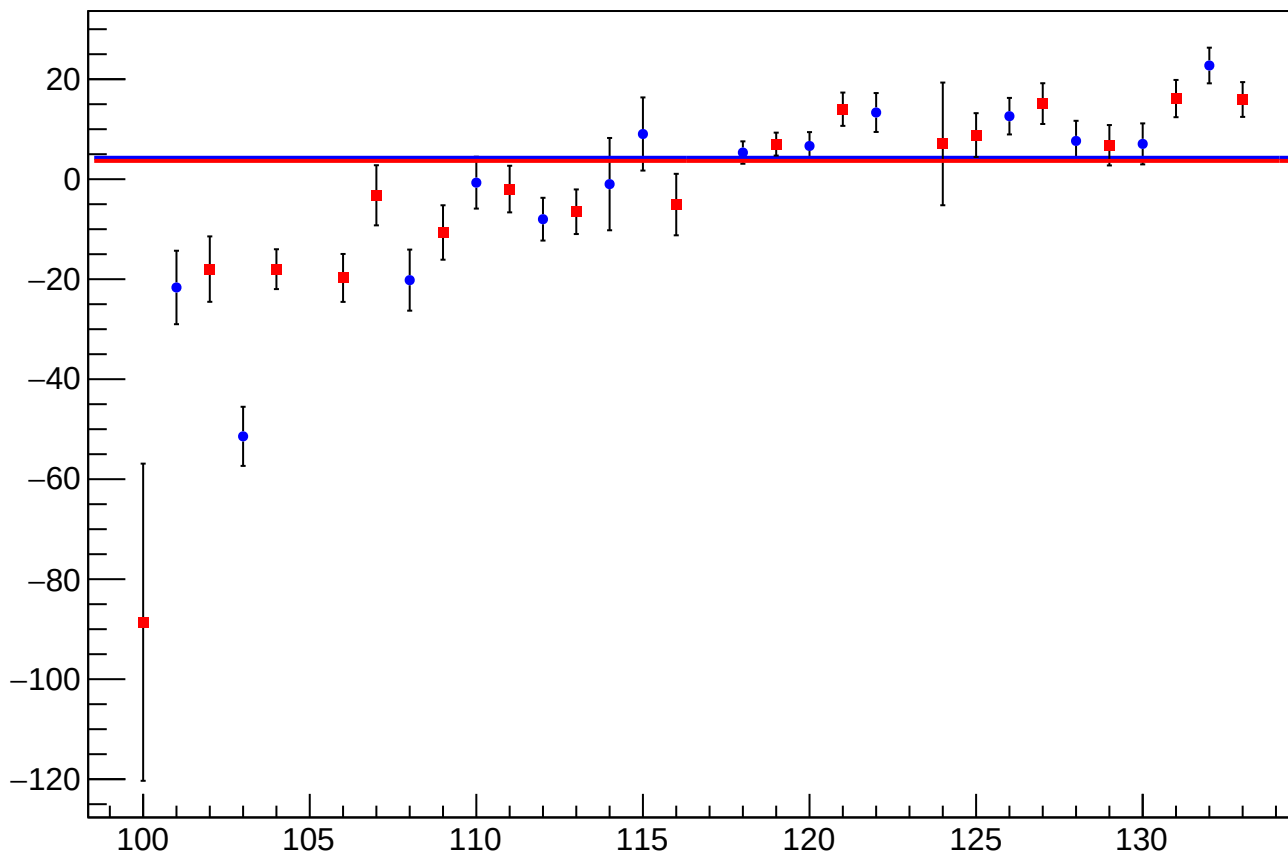
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 136.201 $\pm$ 0.719  $\chi^2$ /NDF: 1797.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 4.285+/-1.074  $\chi^2/\text{NDF}$ : 166.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.663+/-1.037  $\chi^2/\text{NDF}$ : 135.1/16

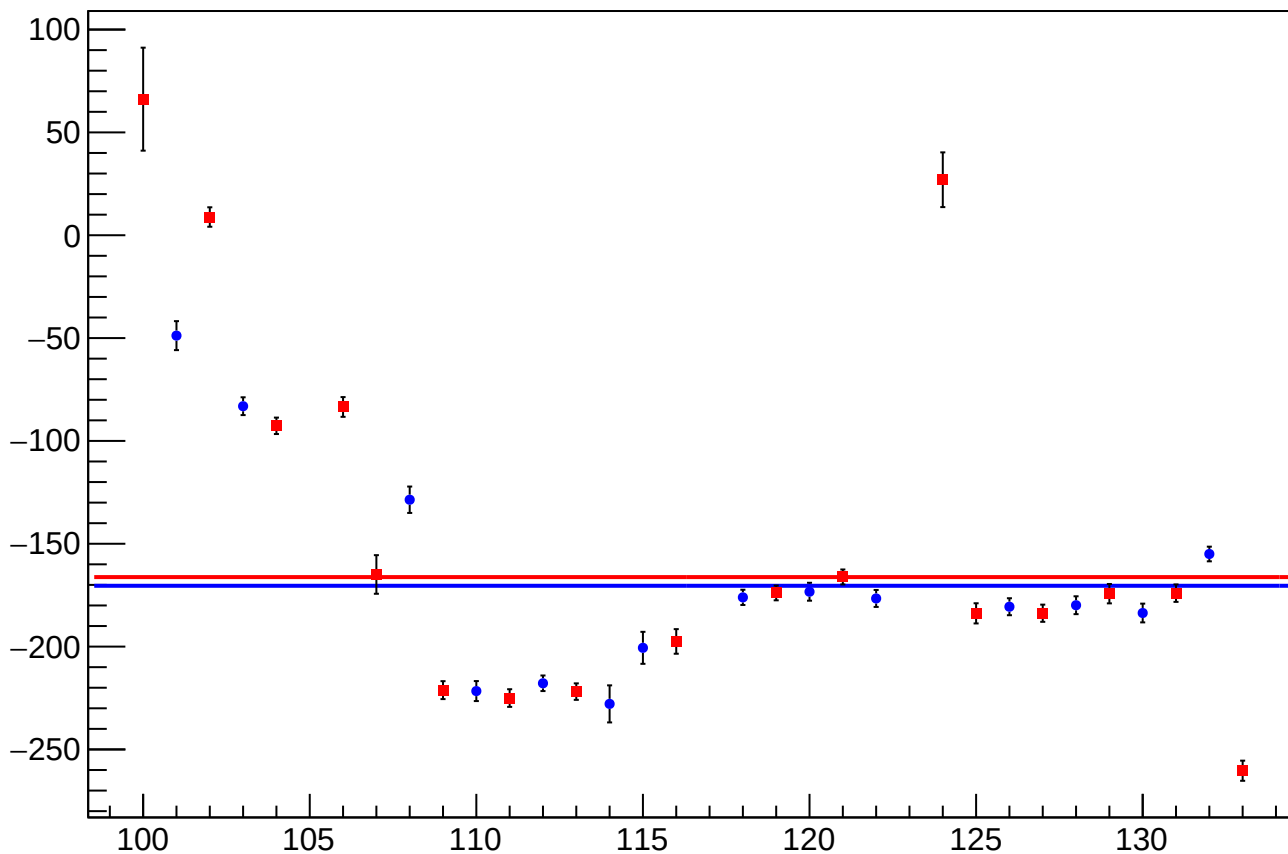
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.963+/-0.746  $\chi^2/\text{NDF}$ : 302.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-170.429 \pm 1.229$   $\chi^2/\text{NDF}: 1114.5/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-166.205 \pm 1.146$   $\chi^2/\text{NDF}: 3280.8/16$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

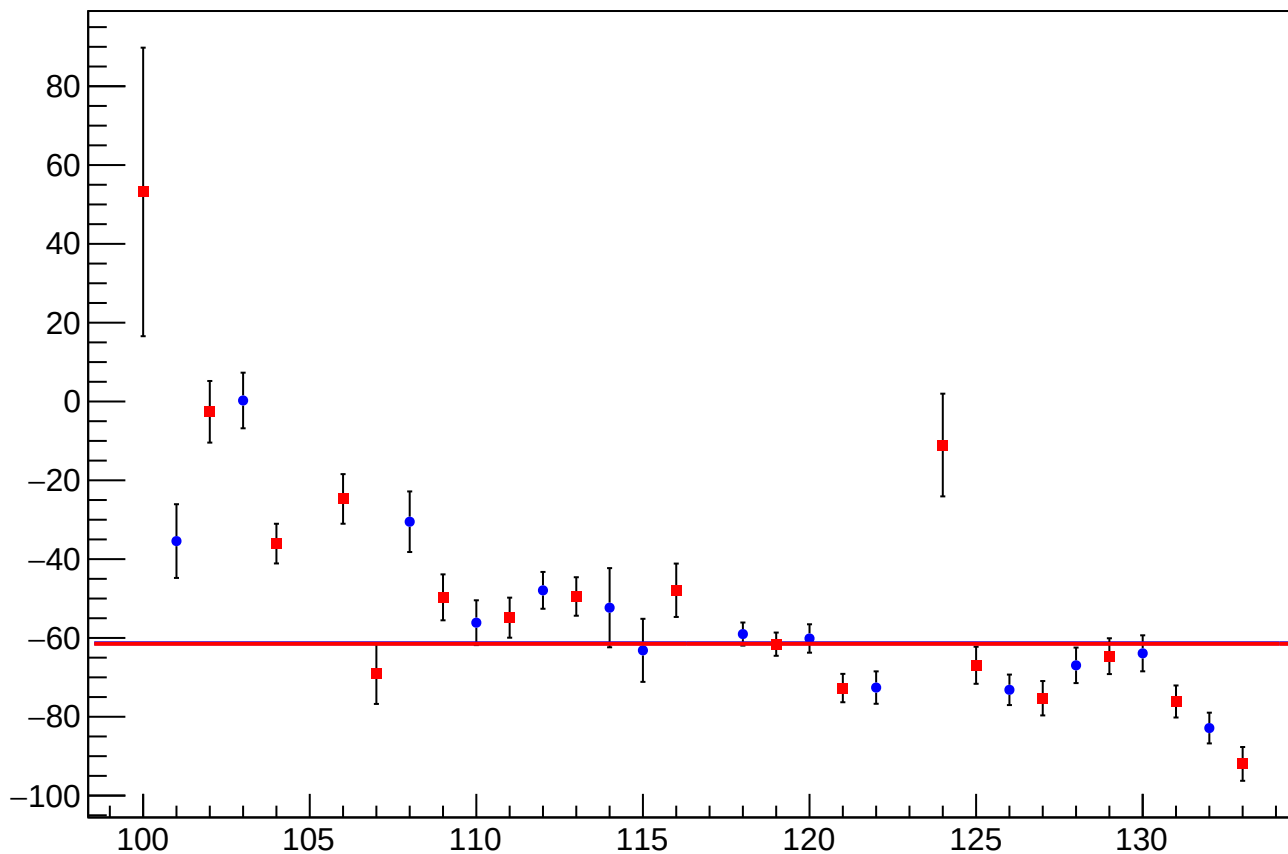
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-168.170 \pm 0.838$   $\chi^2/\text{NDF}: 4401.6/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$



# reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-61.360 \pm 1.257$   $\chi^2/\text{NDF}$ : 159.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-61.483 \pm 1.204$   $\chi^2/\text{NDF}$ : 243.0/16

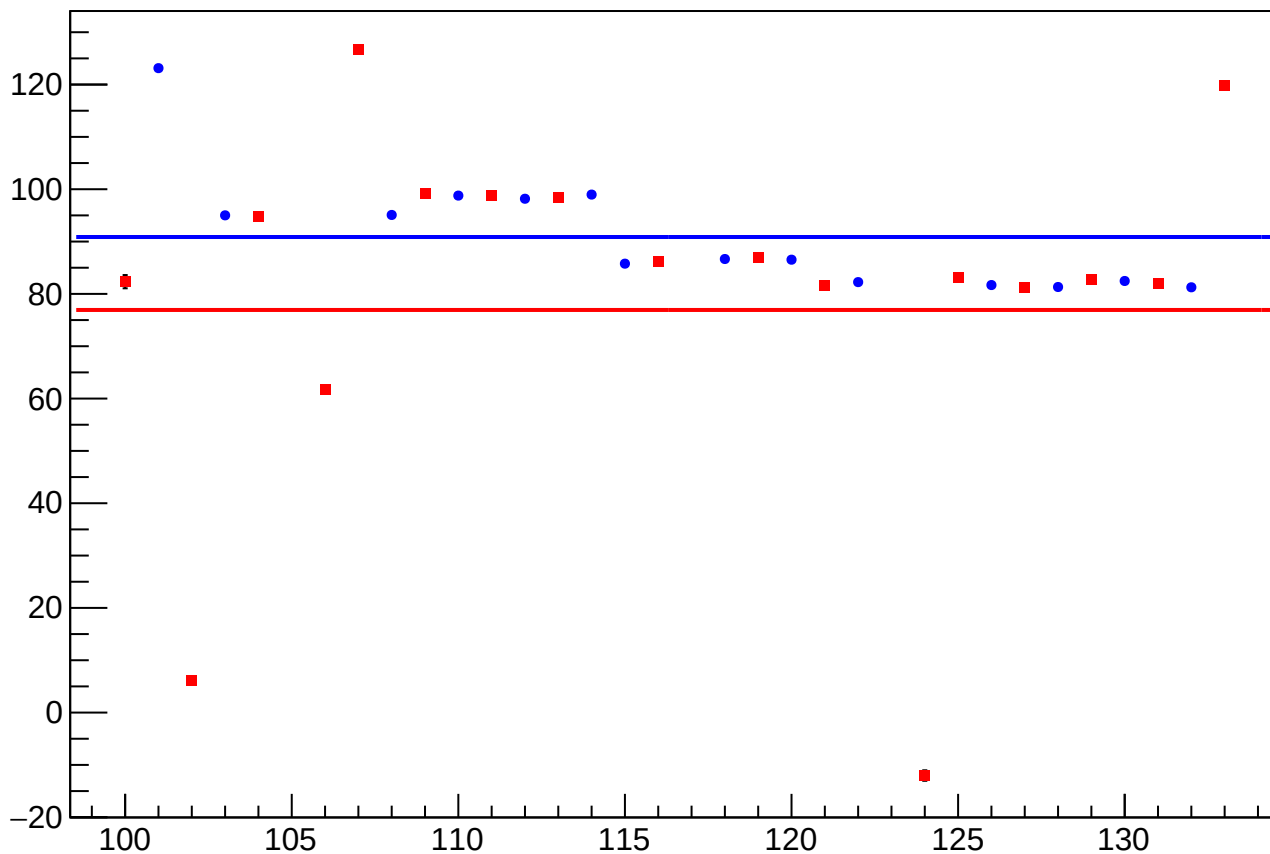
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-61.424 \pm 0.869$   $\chi^2/\text{NDF}$ : 402.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $90.870 \pm 0.085$   $\chi^2/\text{NDF}$ : 12148.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $76.930 \pm 0.074$   $\chi^2/\text{NDF}$ : 193301.3/16

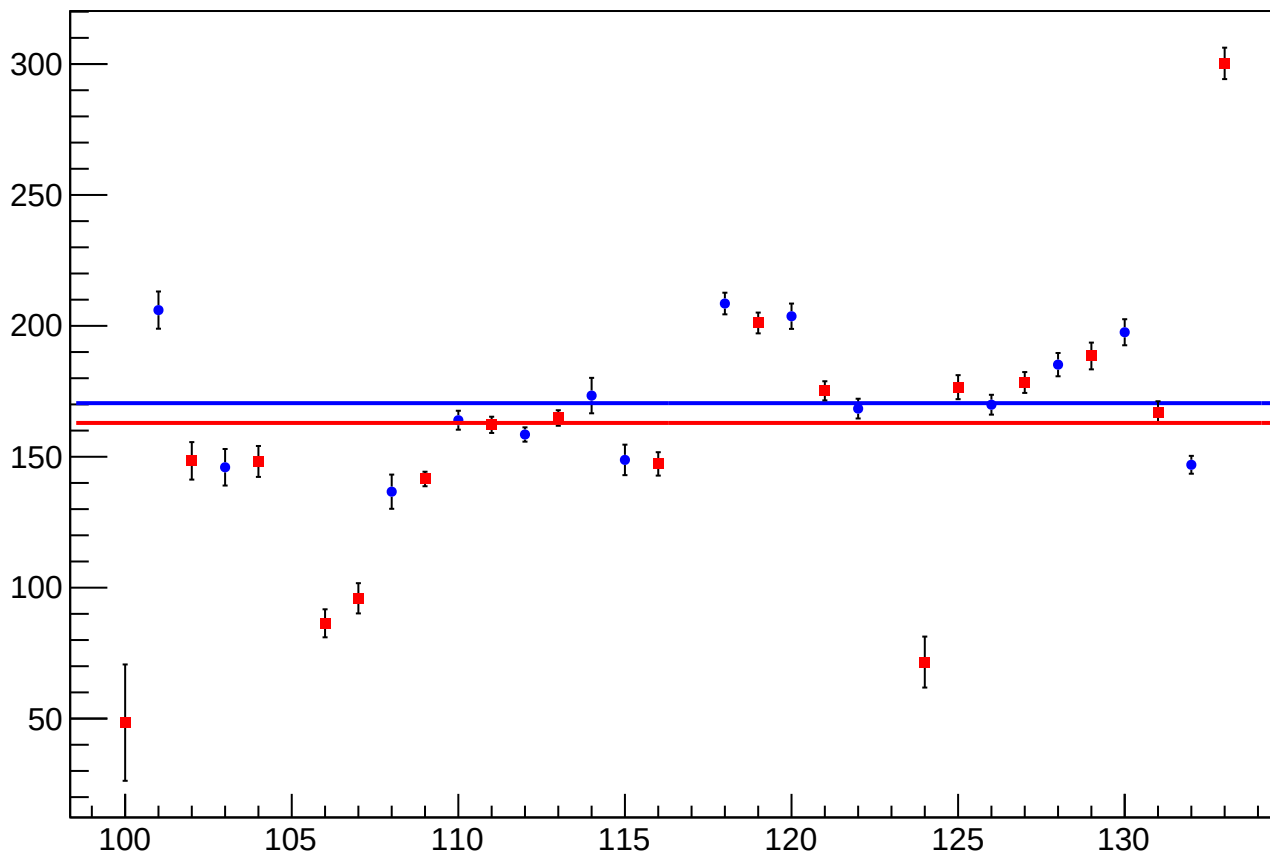
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $82.999 \pm 0.056$   $\chi^2/\text{NDF}$ : 220771.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 170.478+/-1.160  $\chi^2/\text{NDF}$ : 321.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 162.921+/-1.055  $\chi^2/\text{NDF}$ : 1213.8/16

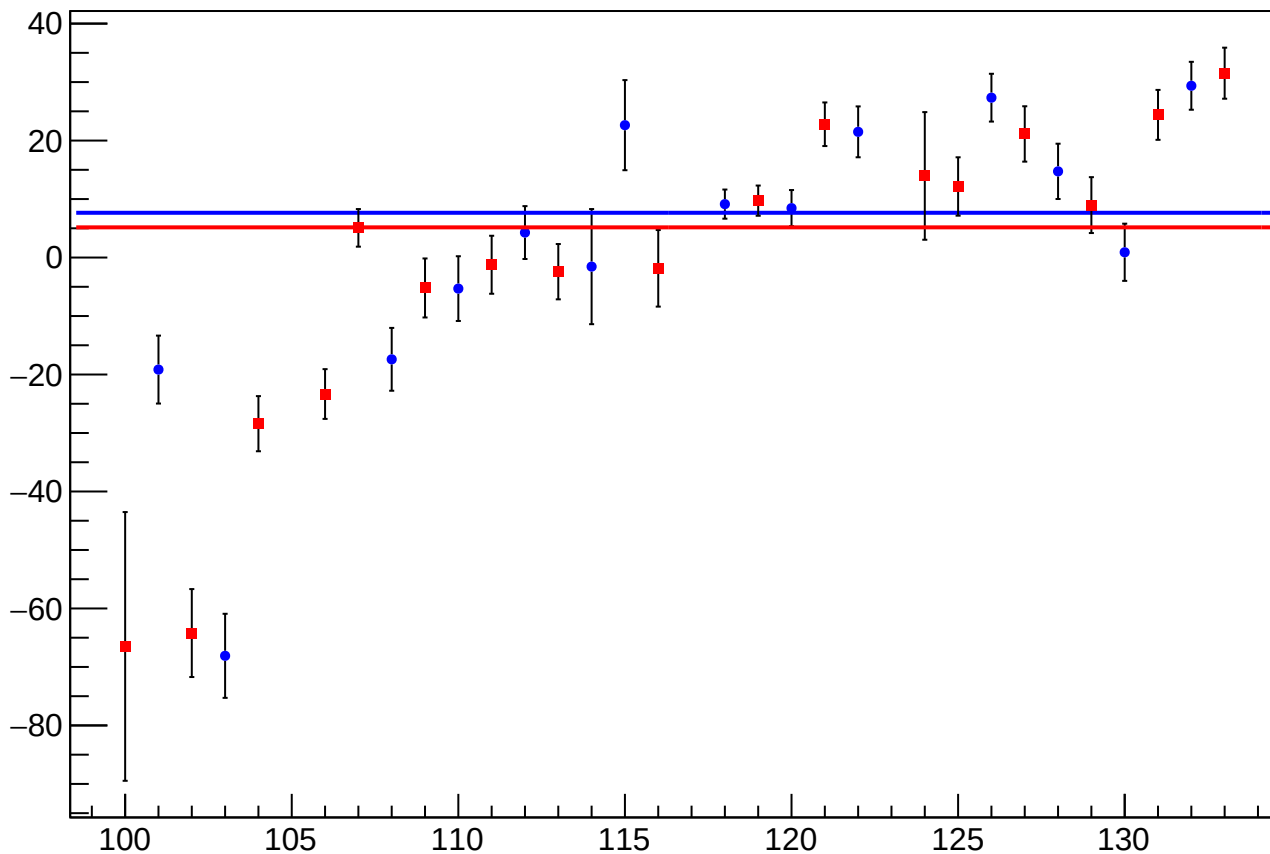
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 166.345+/-0.781  $\chi^2/\text{NDF}$ : 1558.1/30

- 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: 7.654+/-1.181  $\chi^2/\text{NDF}$ : 230.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.162+/-1.097  $\chi^2/\text{NDF}$ : 296.9/16

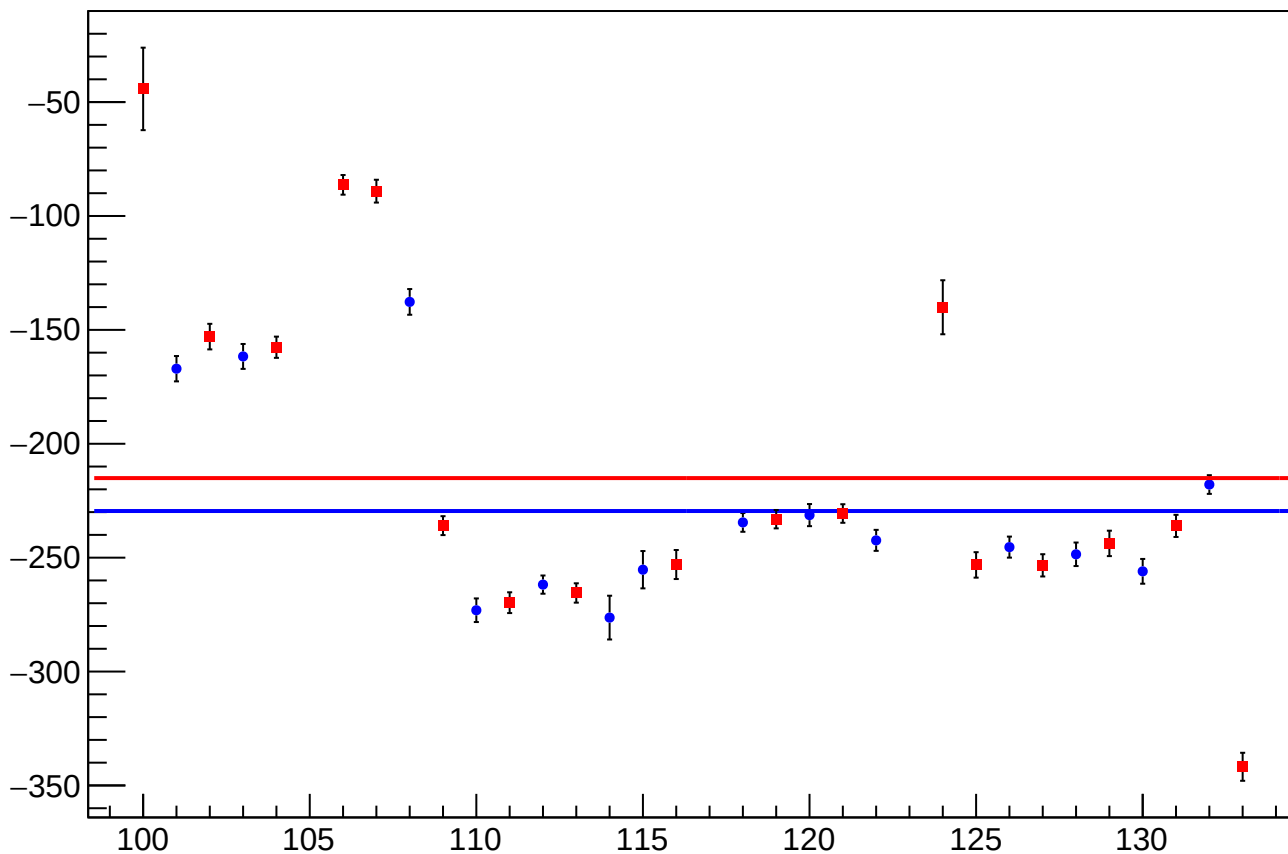
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.317+/-0.804  $\chi^2/\text{NDF}$ : 530.1/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -229.523+/-1.350  $\chi^2/\text{NDF}$ : 780.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -215.069+/-1.227  $\chi^2/\text{NDF}$ : 2883.3/16

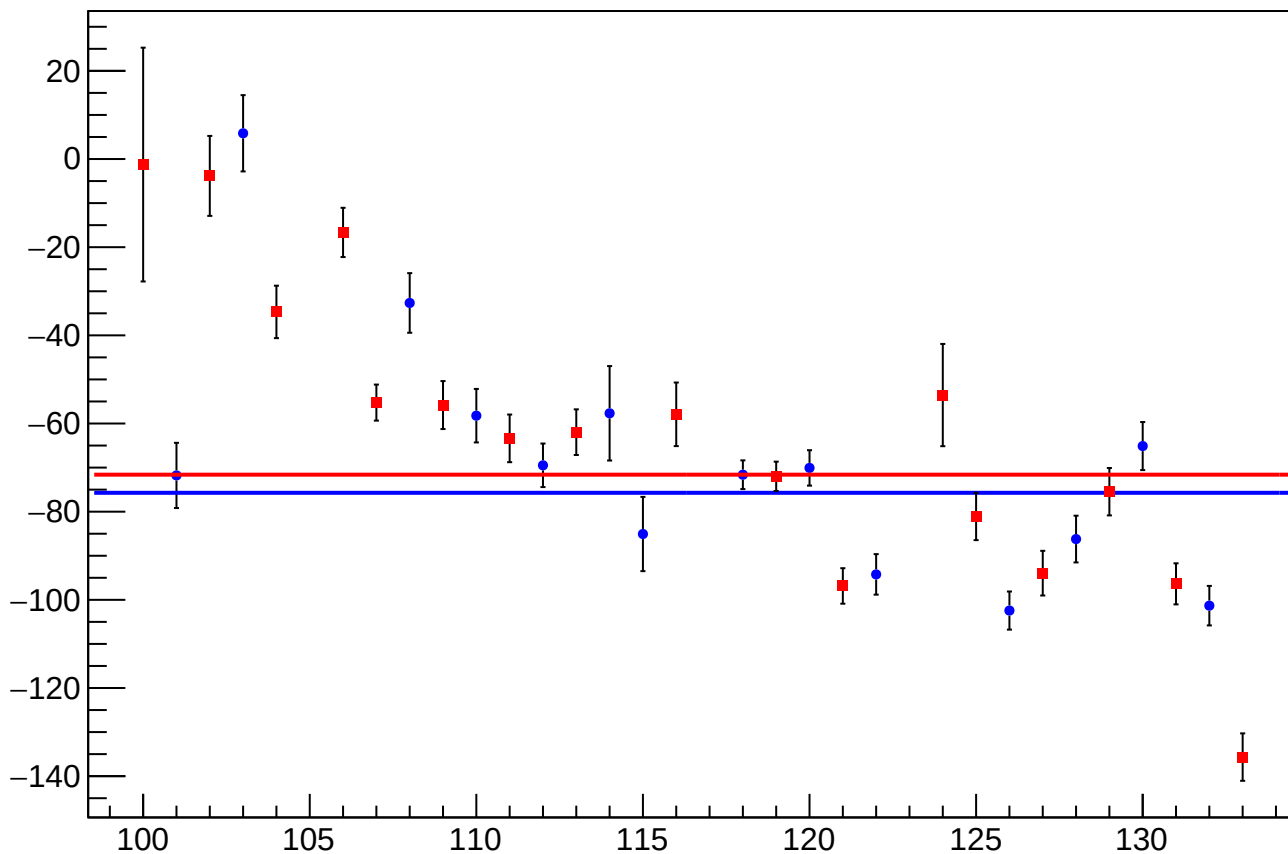
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -221.609+/-0.908  $\chi^2/\text{NDF}$ : 3726.7/30

- 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: -75.718 $\pm$ 1.386  $\chi^2$ /NDF: 241.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -71.605 $\pm$ 1.284  $\chi^2$ /NDF: 466.9/16

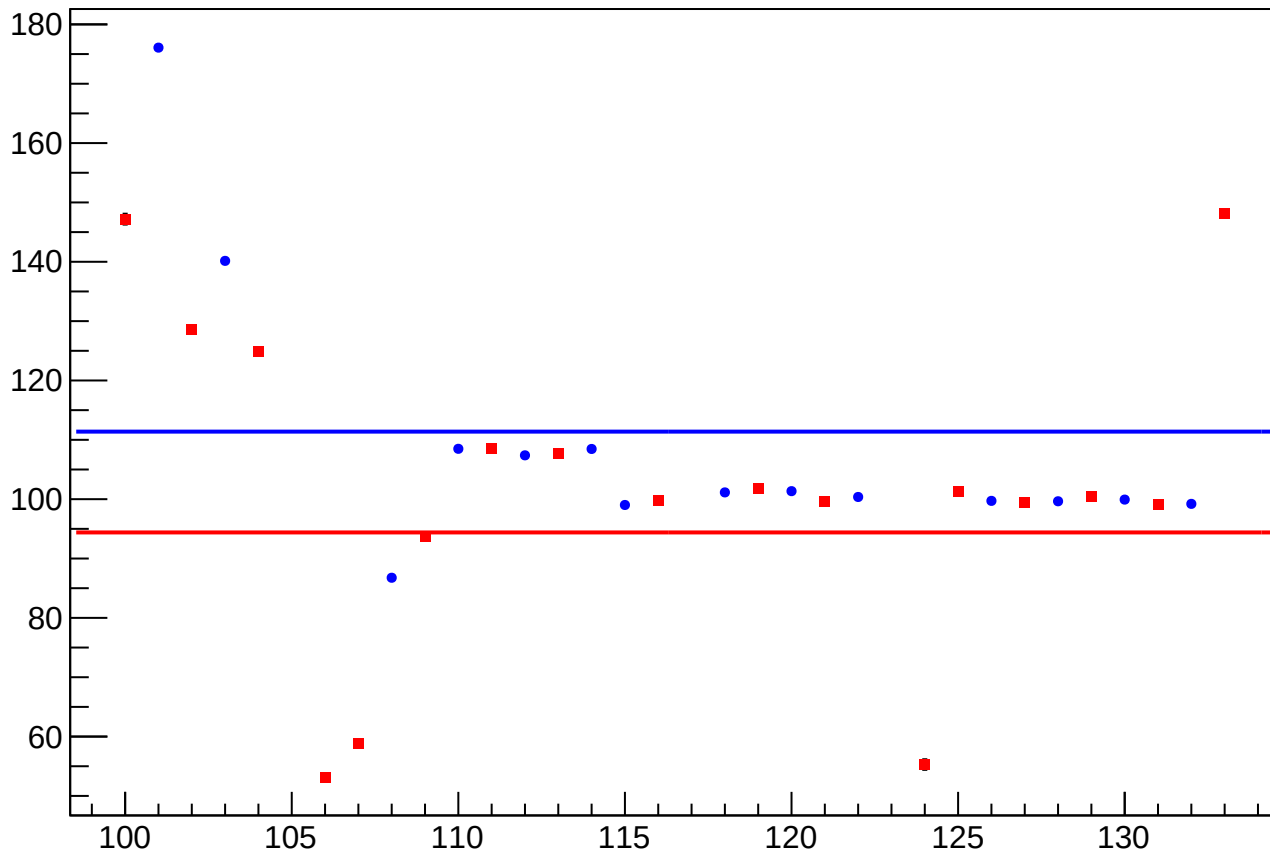
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -73.504 $\pm$ 0.942  $\chi^2$ /NDF: 713.6/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 111.384+/-0.092  $\chi^2/\text{NDF}$ : 71924.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.396+/-0.077  $\chi^2/\text{NDF}$ : 138418.0/16

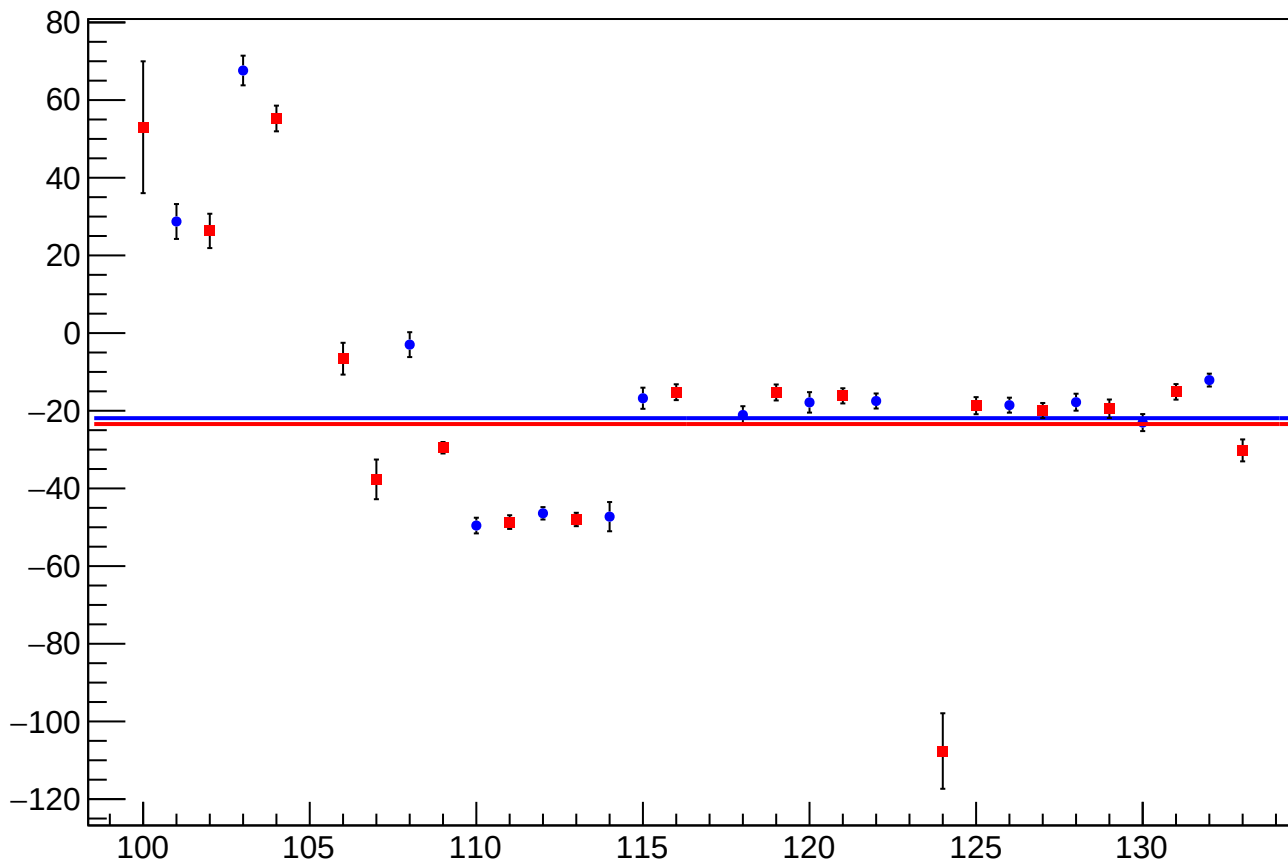
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 101.374+/-0.059  $\chi^2/\text{NDF}$ : 230374.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -21.908 $\pm$ 0.607  $\chi^2$ /NDF: 1233.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -23.422 $\pm$ 0.565  $\chi^2$ /NDF: 1316.2/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

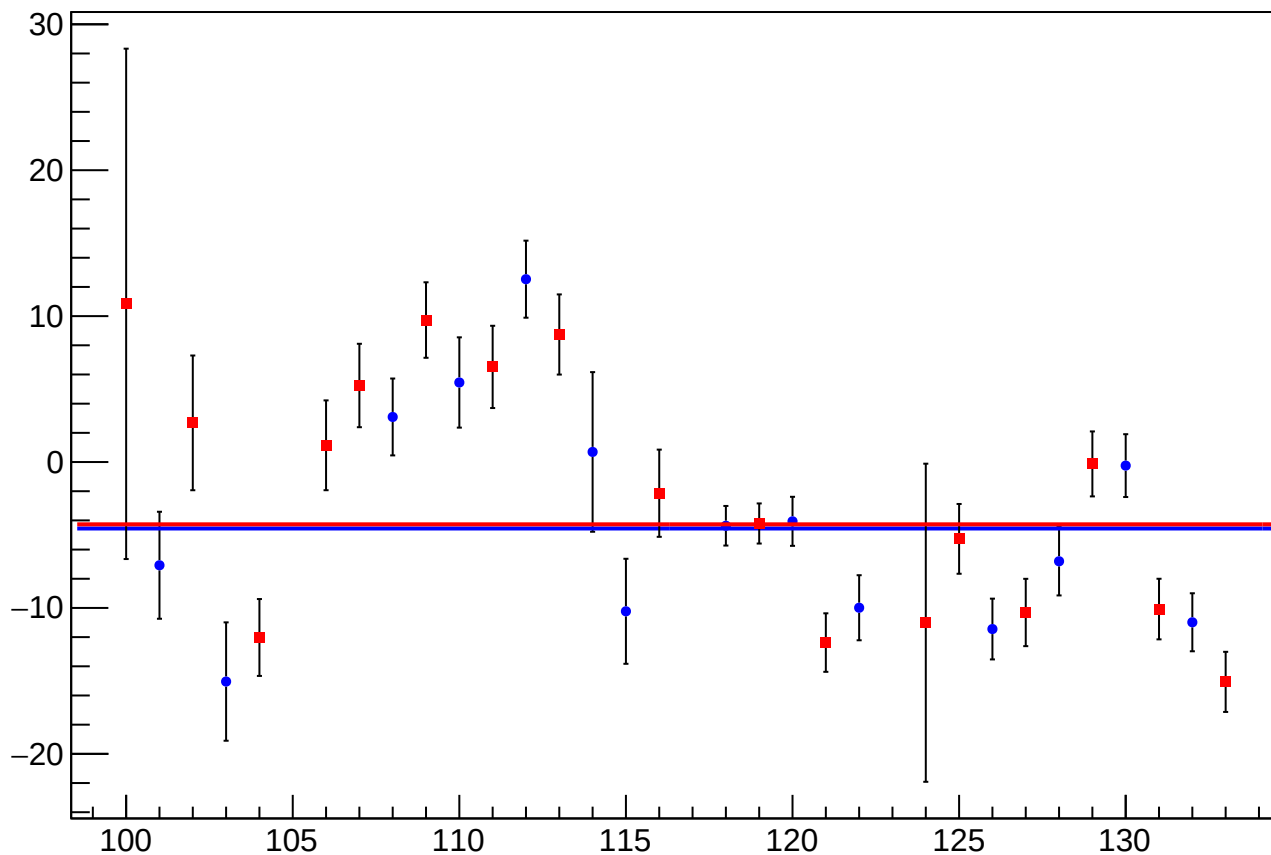
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -22.719 $\pm$ 0.413  $\chi^2$ /NDF: 2552.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -4.555+/-0.618  $\chi^2/\text{NDF}$ : 103.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.270+/-0.602  $\chi^2/\text{NDF}$ : 155.2/16

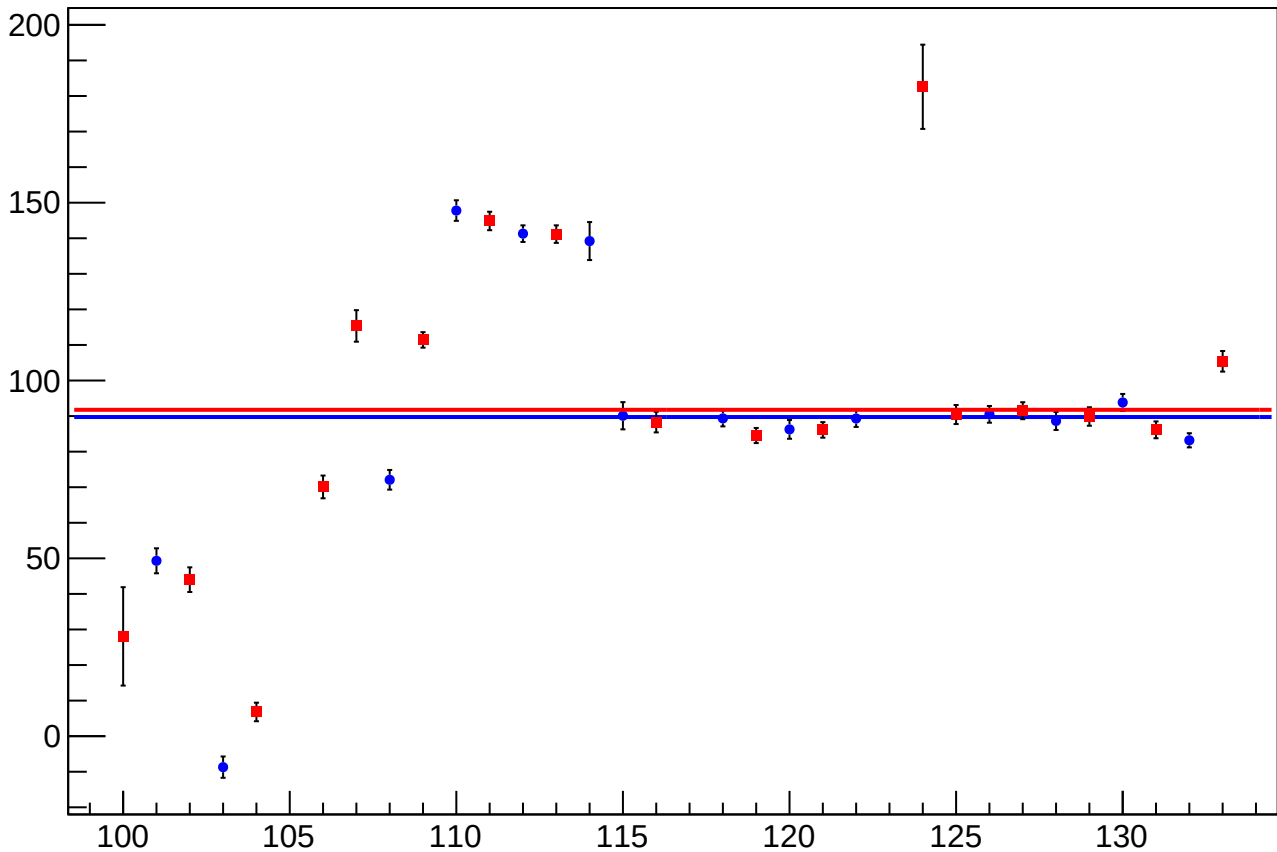
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.409+/-0.431  $\chi^2/\text{NDF}$ : 259.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 89.736 $\pm$ 0.705  $\chi^2$ /NDF: 2244.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 91.767 $\pm$ 0.671  $\chi^2$ /NDF: 2353.1/16

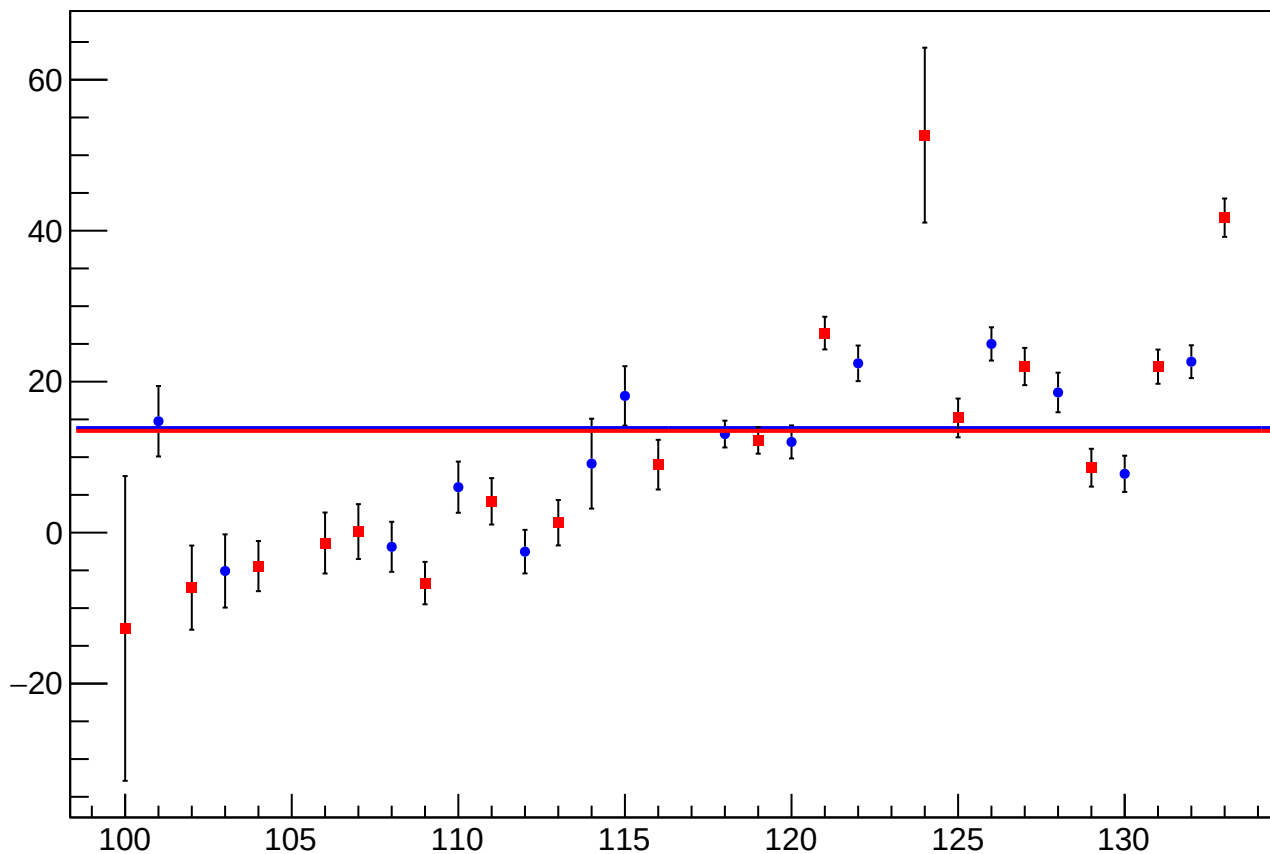
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 90.803 $\pm$ 0.486  $\chi^2$ /NDF: 4601.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 13.849 $\pm$ 0.721  $\chi^2$ /NDF: 142.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13.481 $\pm$ 0.696  $\chi^2$ /NDF: 352.4/16

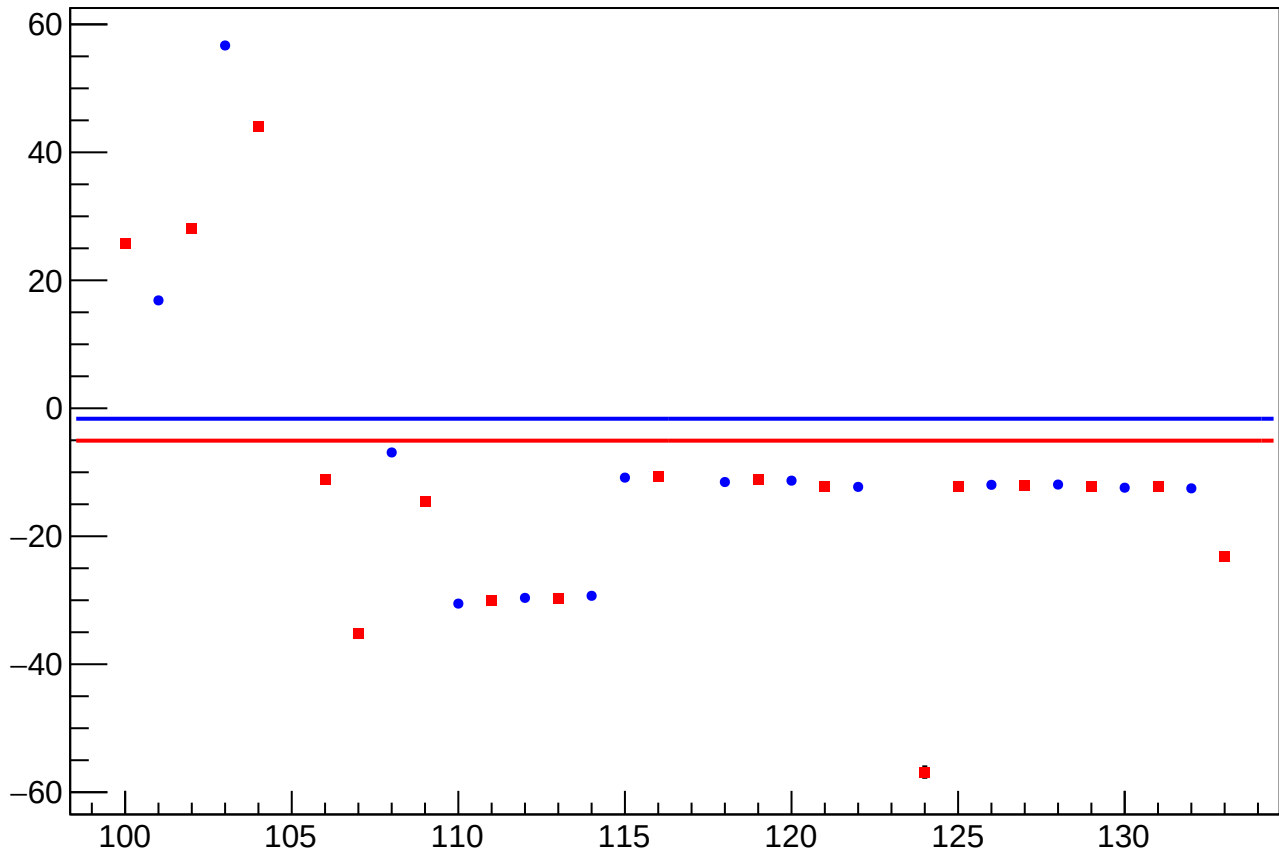
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 13.658 $\pm$ 0.501  $\chi^2$ /NDF: 495.3/30

- 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: -1.633+/-0.048  $\chi^2/\text{NDF}$ : 290197.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.058+/-0.045  $\chi^2/\text{NDF}$ : 287021.5/16

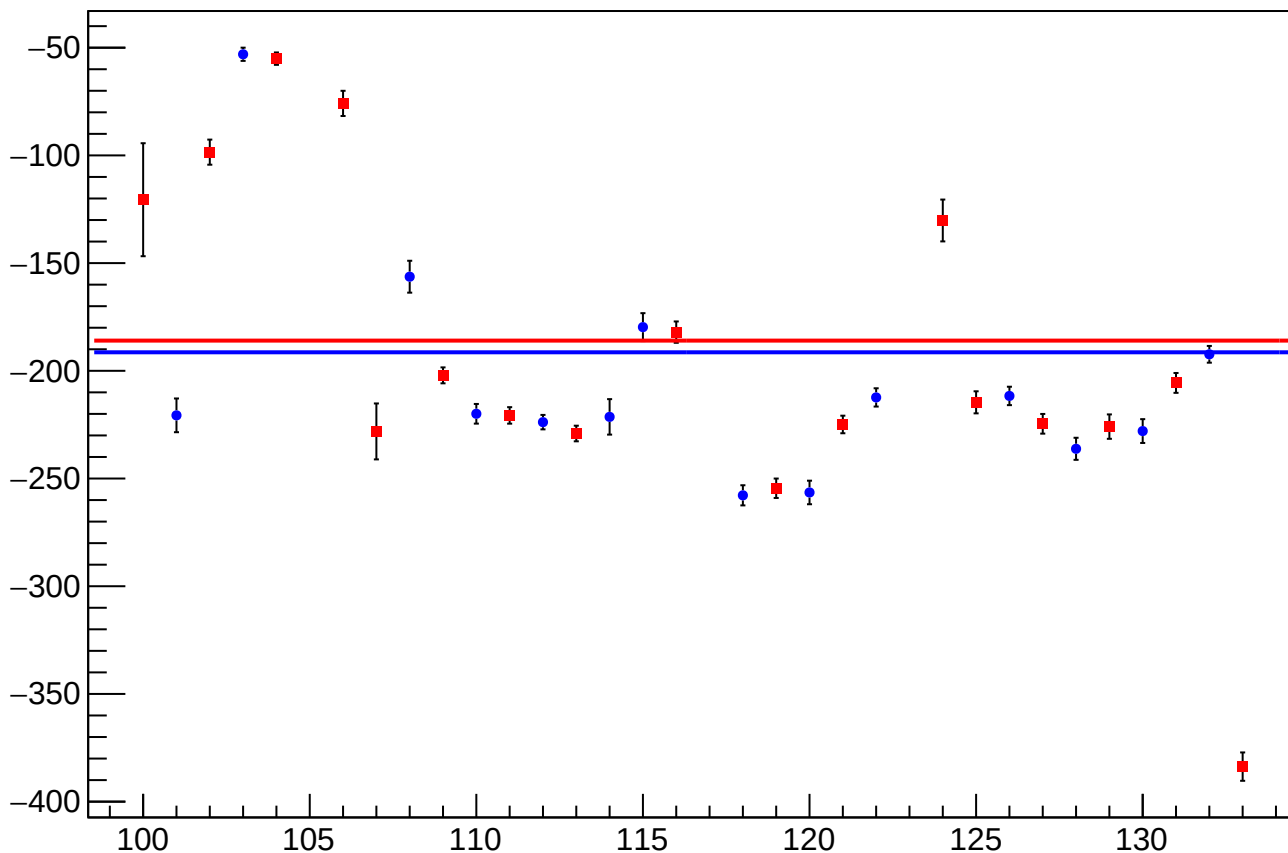
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.447+/-0.033  $\chi^2/\text{NDF}$ : 579893.7/30

- 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: -191.404+/-1.247  $\chi^2/\text{NDF}$ : 2730.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -185.974+/-1.153  $\chi^2/\text{NDF}$ : 4340.8/16

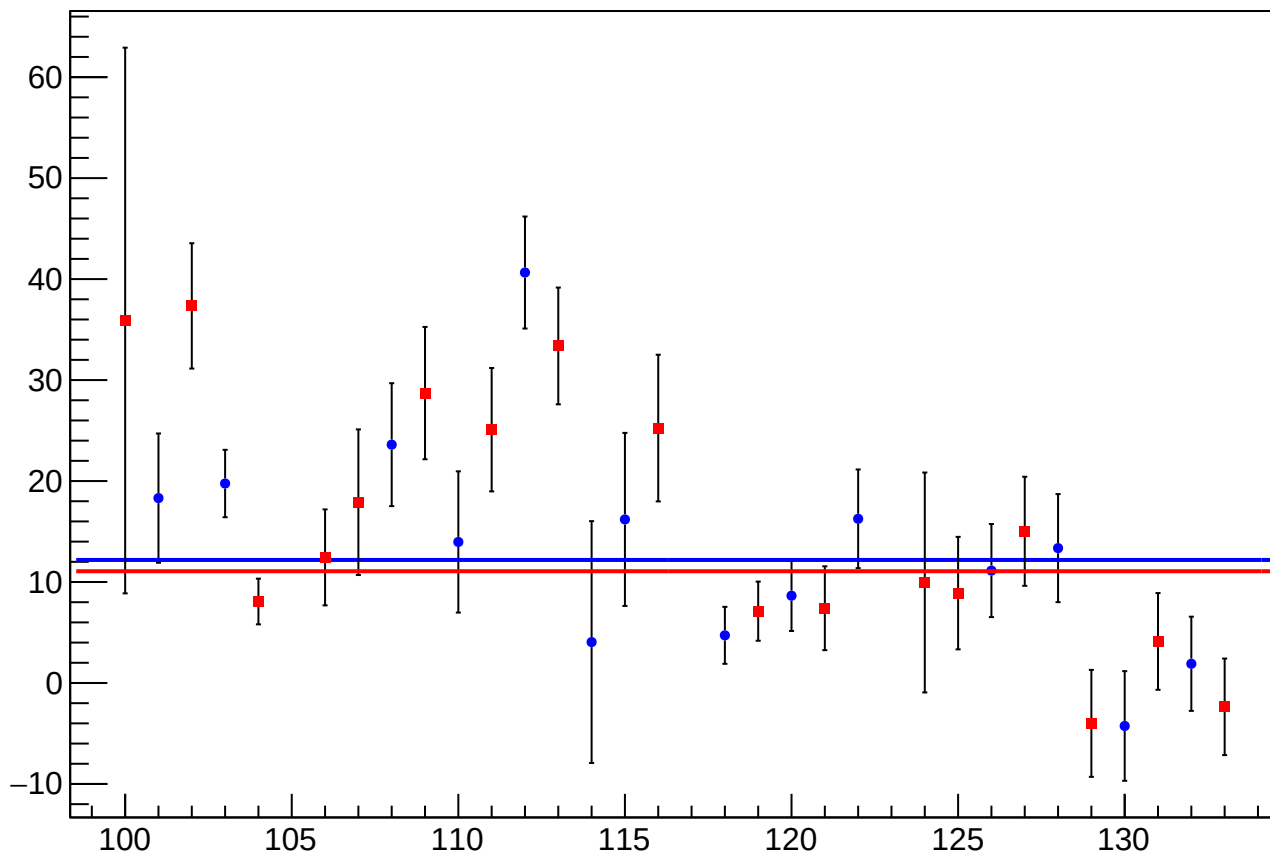
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -188.476+/-0.847  $\chi^2/\text{NDF}$ : 7081.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 12.185 $\pm$ 1.264  $\chi^2$ /NDF: 59.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11.068 $\pm$ 1.149  $\chi^2$ /NDF: 74.1/16

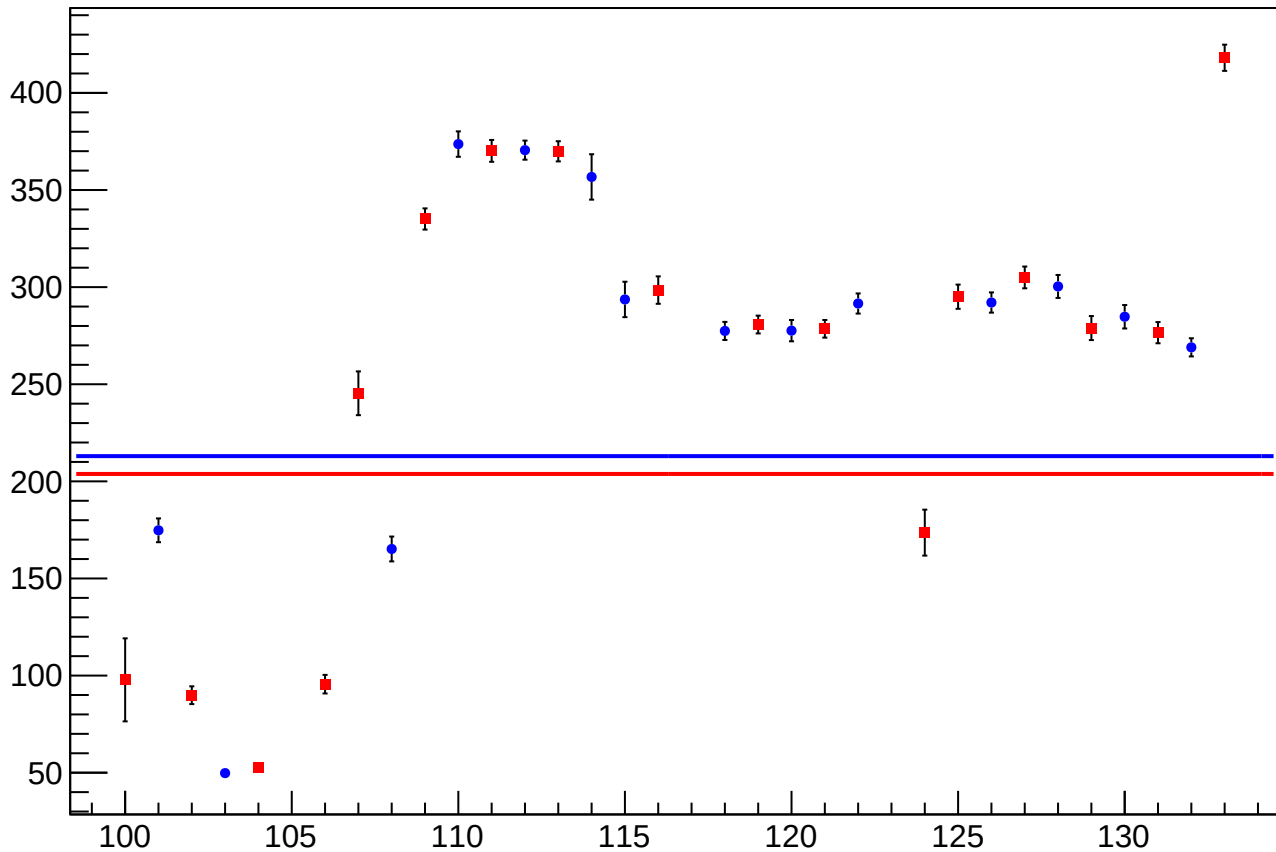
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.573 $\pm$ 0.850  $\chi^2$ /NDF: 134.1/30

- 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: 212.987+/-1.333  $\chi^2/\text{NDF}$ : 7838.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 203.819+/-1.230  $\chi^2/\text{NDF}$ : 10706.9/16

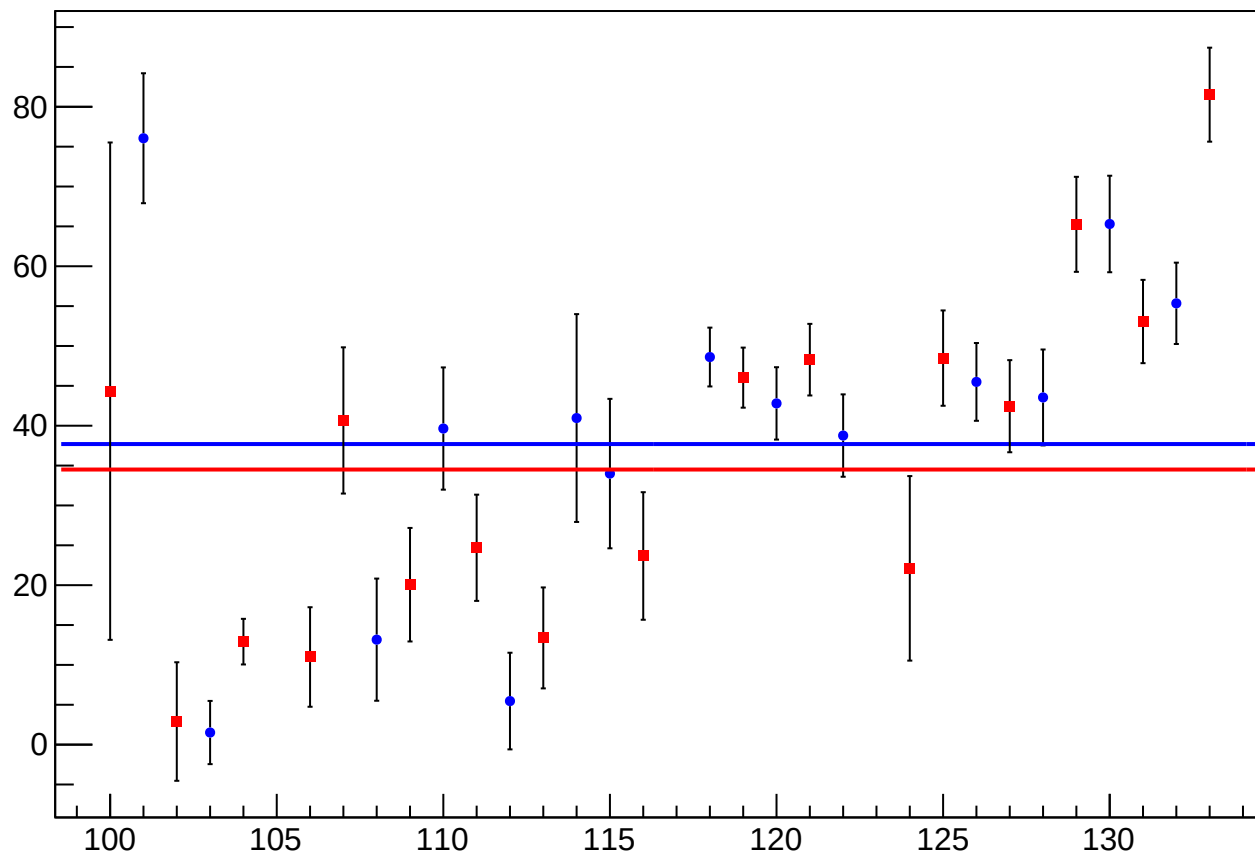
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 208.035+/-0.904  $\chi^2/\text{NDF}$ : 18570.8/30

- 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: 37.699+/-1.487  $\chi^2/\text{NDF}$ : 190.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 34.504+/-1.360  $\chi^2/\text{NDF}$ : 239.1/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

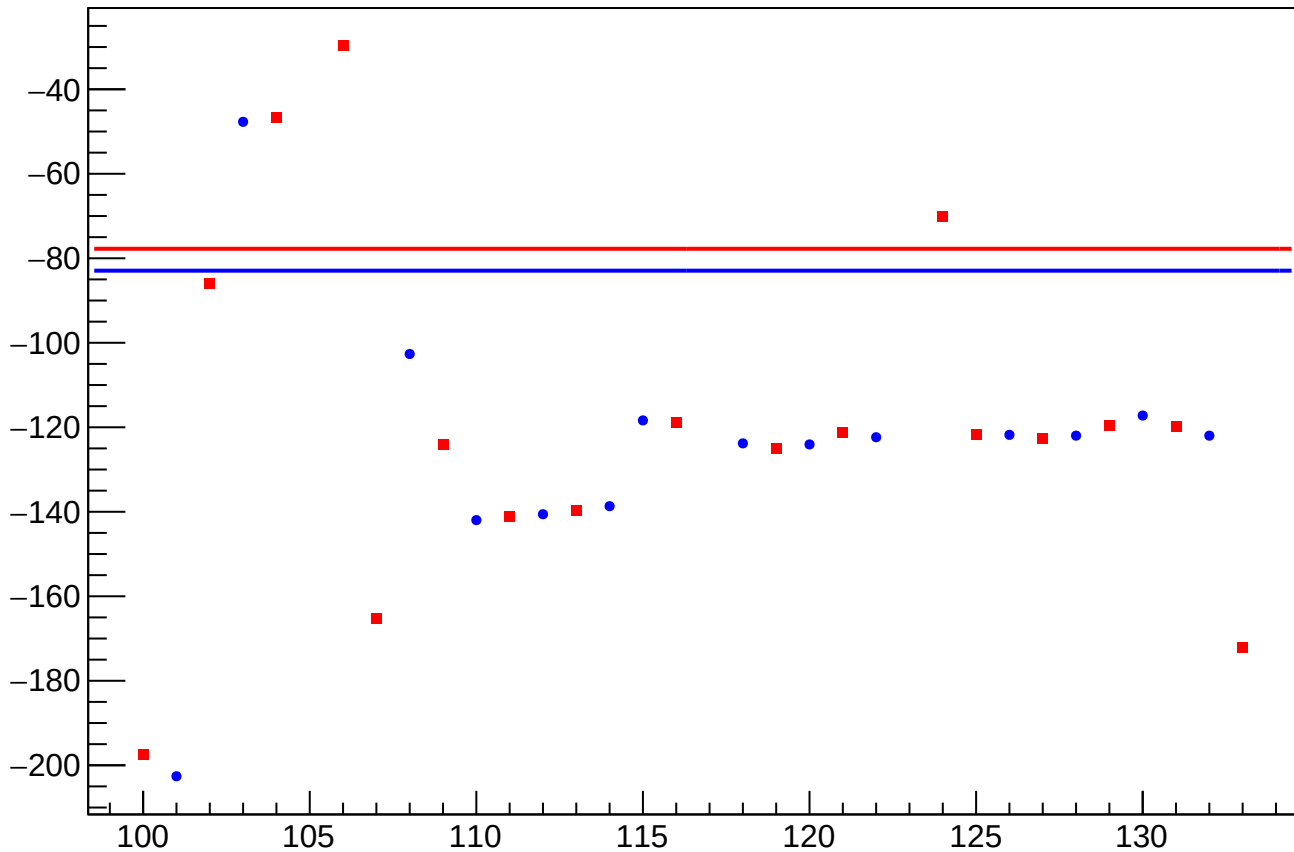
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.959+/-1.004  $\chi^2/\text{NDF}$ : 432.2/30

- 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: -82.933+/-0.076  $\chi^2/\text{NDF}$ : 339420.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -77.750+/-0.071  $\chi^2/\text{NDF}$ : 354410.9/16

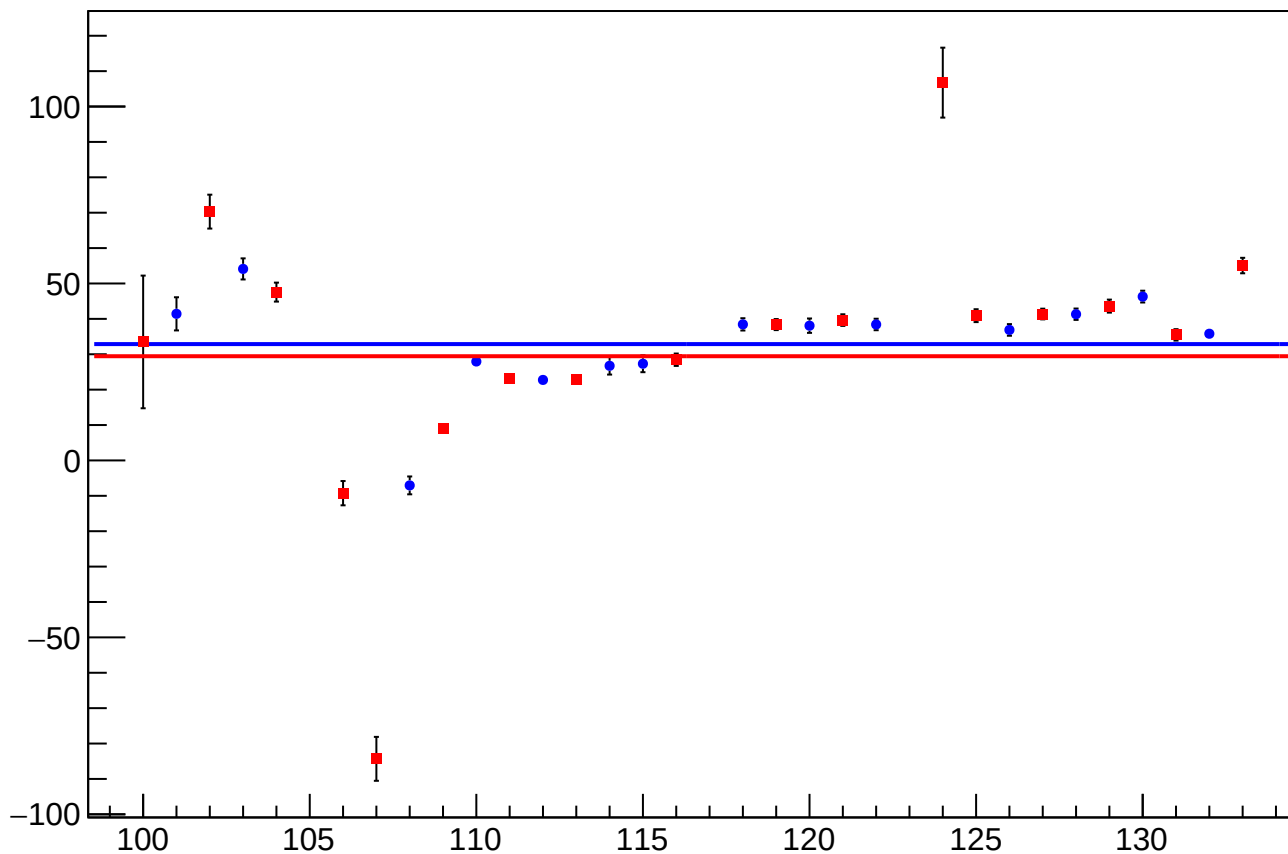
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -80.164+/-0.052  $\chi^2/\text{NDF}$ : 696344.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $32.872 \pm 0.462$   $\chi^2/\text{NDF}: 545.2/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $29.445 \pm 0.434$   $\chi^2/\text{NDF}: 1444.4/16$

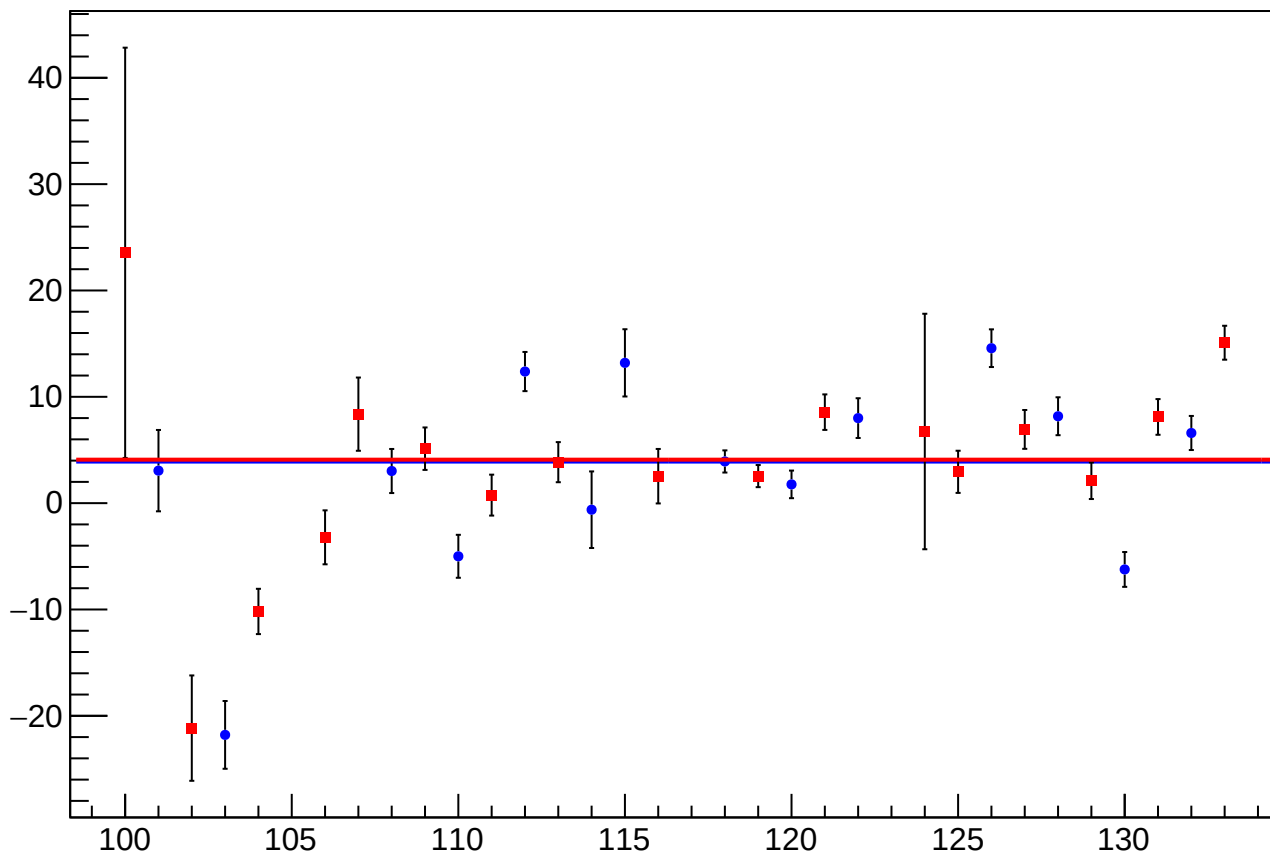
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $31.051 \pm 0.316$   $\chi^2/\text{NDF}: 2018.8/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 3.910+/-0.482  $\chi^2/\text{NDF}$ : 206.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.089+/-0.477  $\chi^2/\text{NDF}$ : 152.2/16

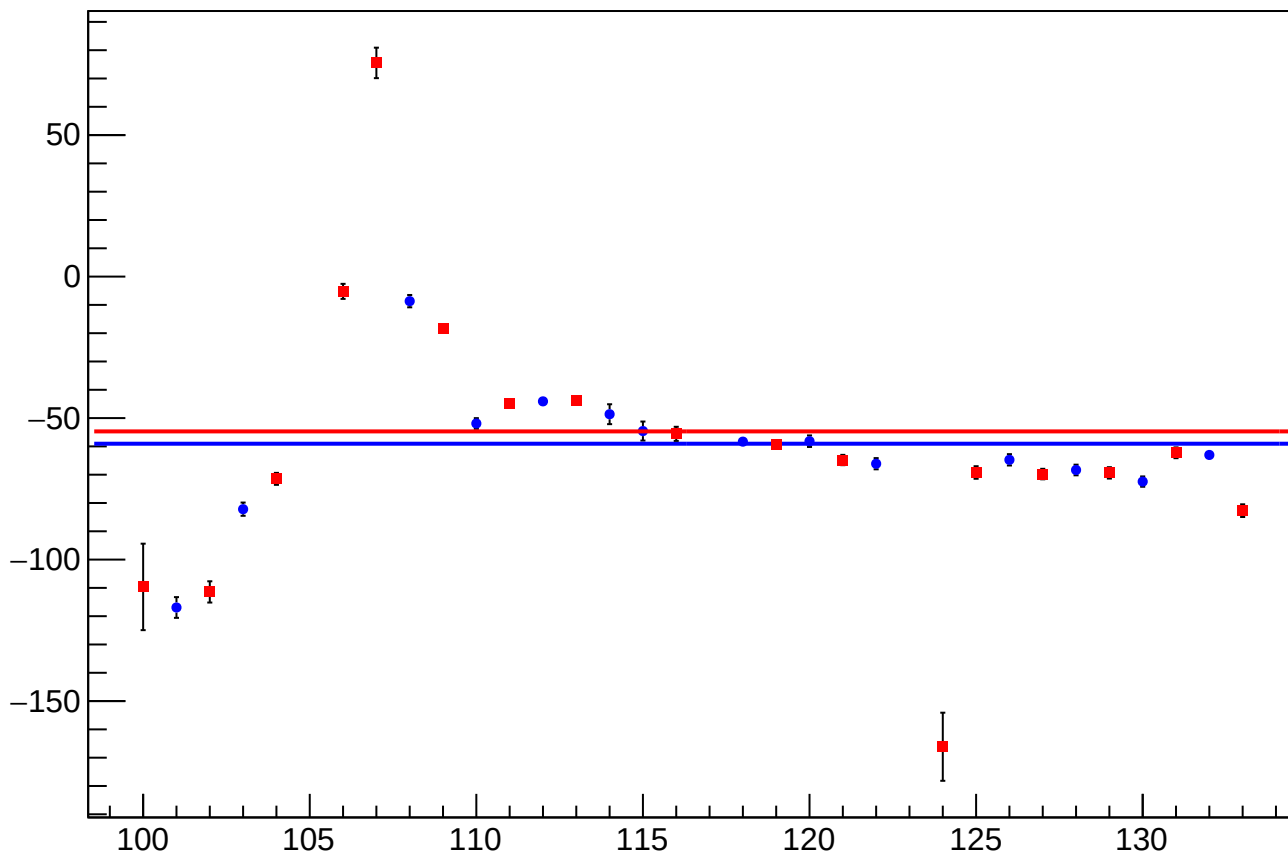
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.000+/-0.339  $\chi^2/\text{NDF}$ : 358.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -59.055+/-0.546  $\chi^2/\text{NDF}$ : 1097.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -54.703+/-0.527  $\chi^2/\text{NDF}$ : 2277.6/16

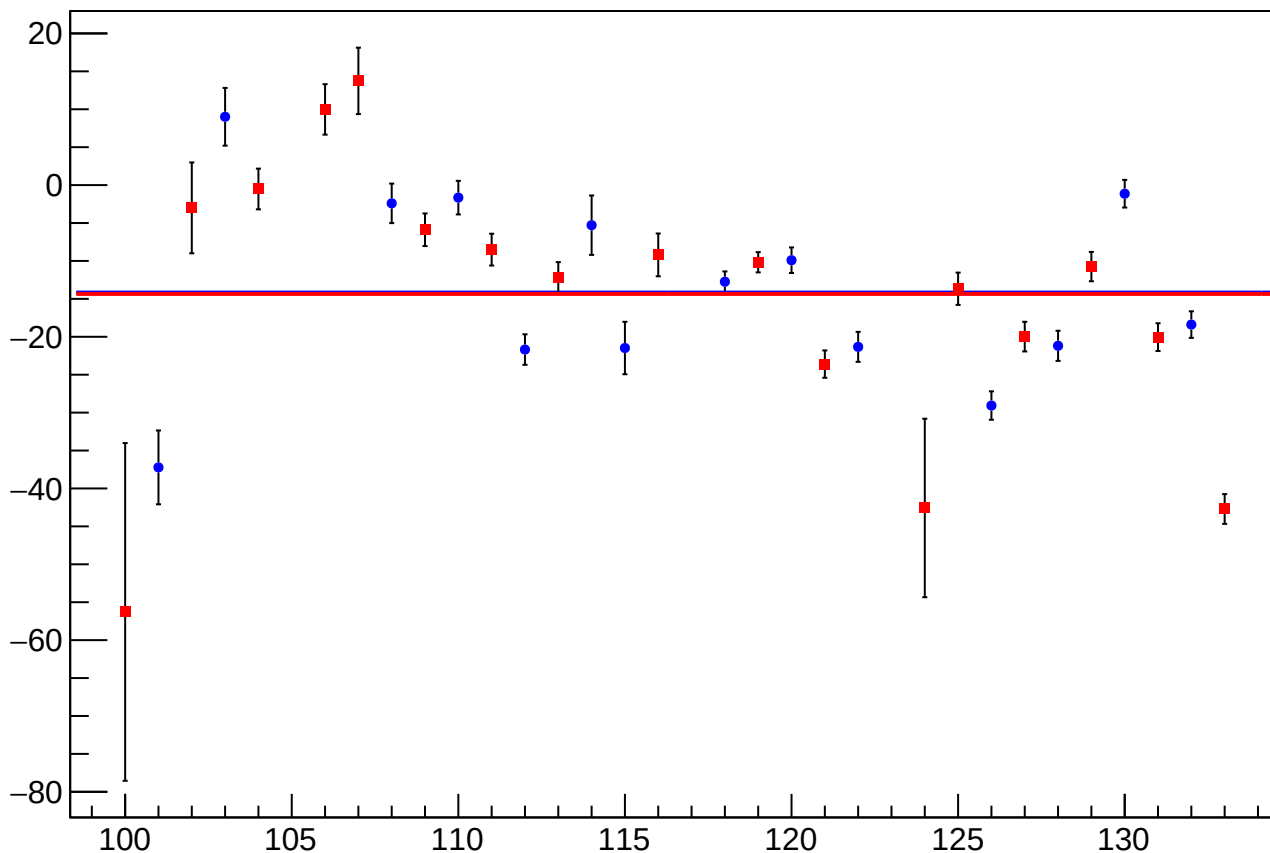
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -56.801+/-0.379  $\chi^2/\text{NDF}$ : 3407.8/30

- 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: -14.175+/-0.562  $\chi^2/\text{NDF}$ : 288.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14.348+/-0.551  $\chi^2/\text{NDF}$ : 427.5/16

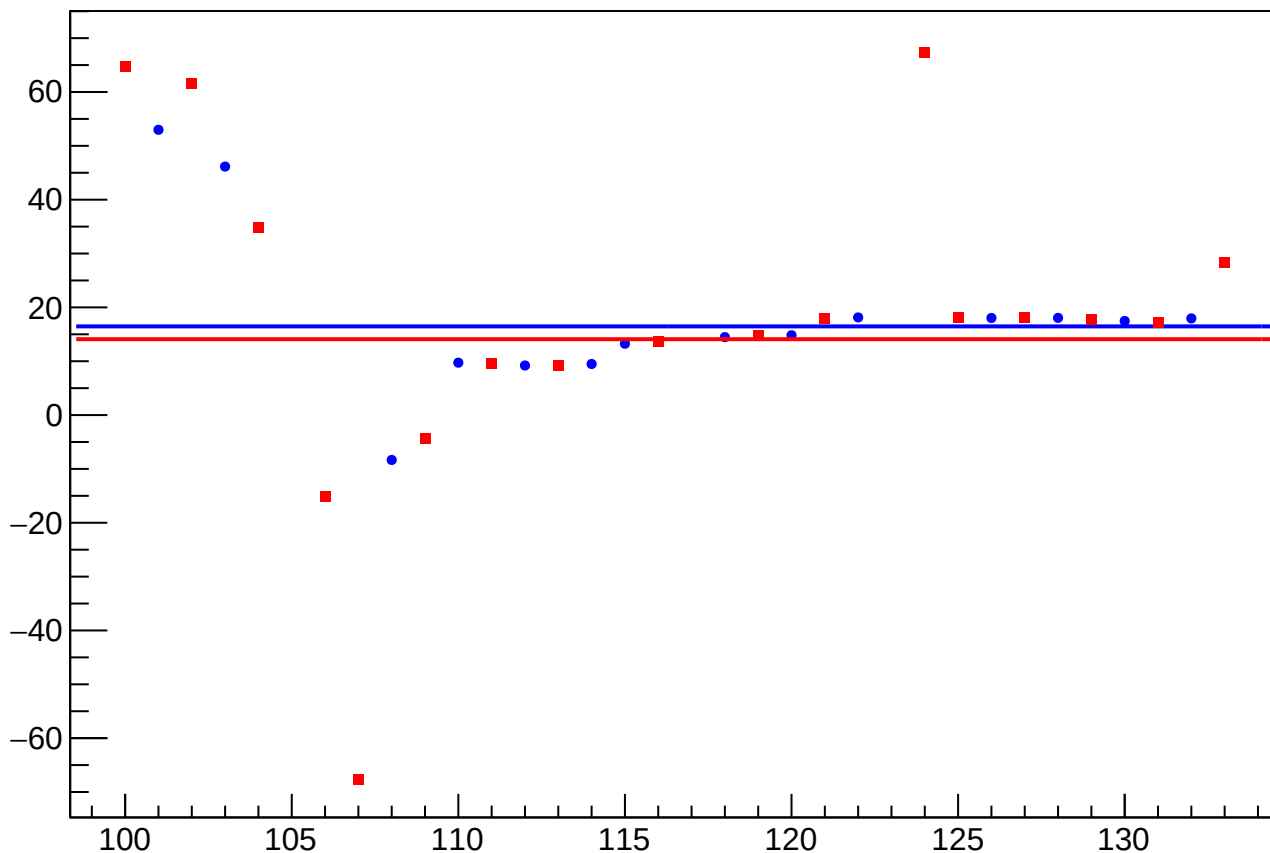
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.263+/-0.393  $\chi^2/\text{NDF}$ : 716.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $16.470 \pm 0.038$   $\chi^2/\text{NDF}$ : 204950.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $14.090 \pm 0.037$   $\chi^2/\text{NDF}$ : 360774.1/16

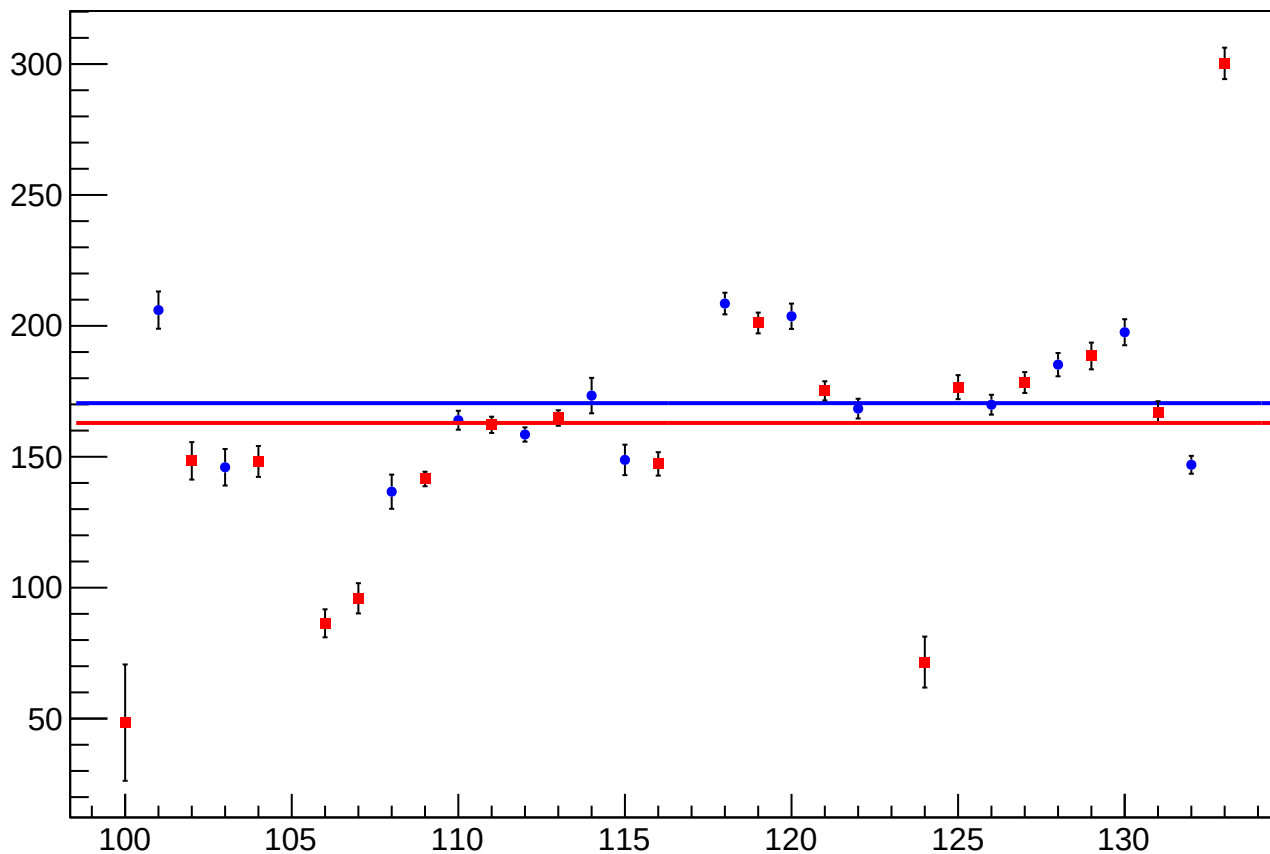
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $15.260 \pm 0.026$   $\chi^2/\text{NDF}$ : 567752.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 170.478+/-1.160  $\chi^2/\text{NDF}$ : 321.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 162.921+/-1.055  $\chi^2/\text{NDF}$ : 1213.8/16

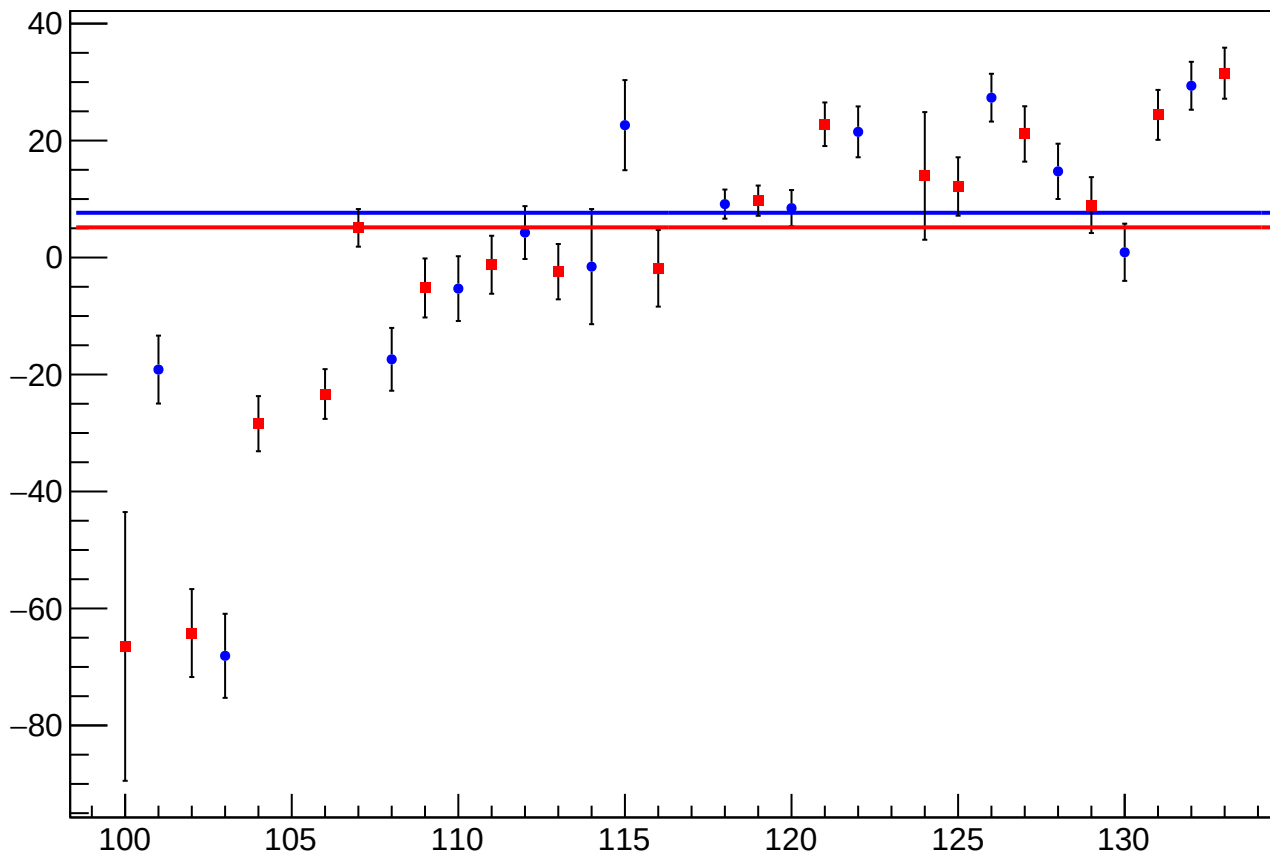
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 166.345+/-0.781  $\chi^2/\text{NDF}$ : 1558.1/30

- 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: 7.654 $\pm$ 1.181  $\chi^2$ /NDF: 230.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.162 $\pm$ 1.097  $\chi^2$ /NDF: 296.9/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

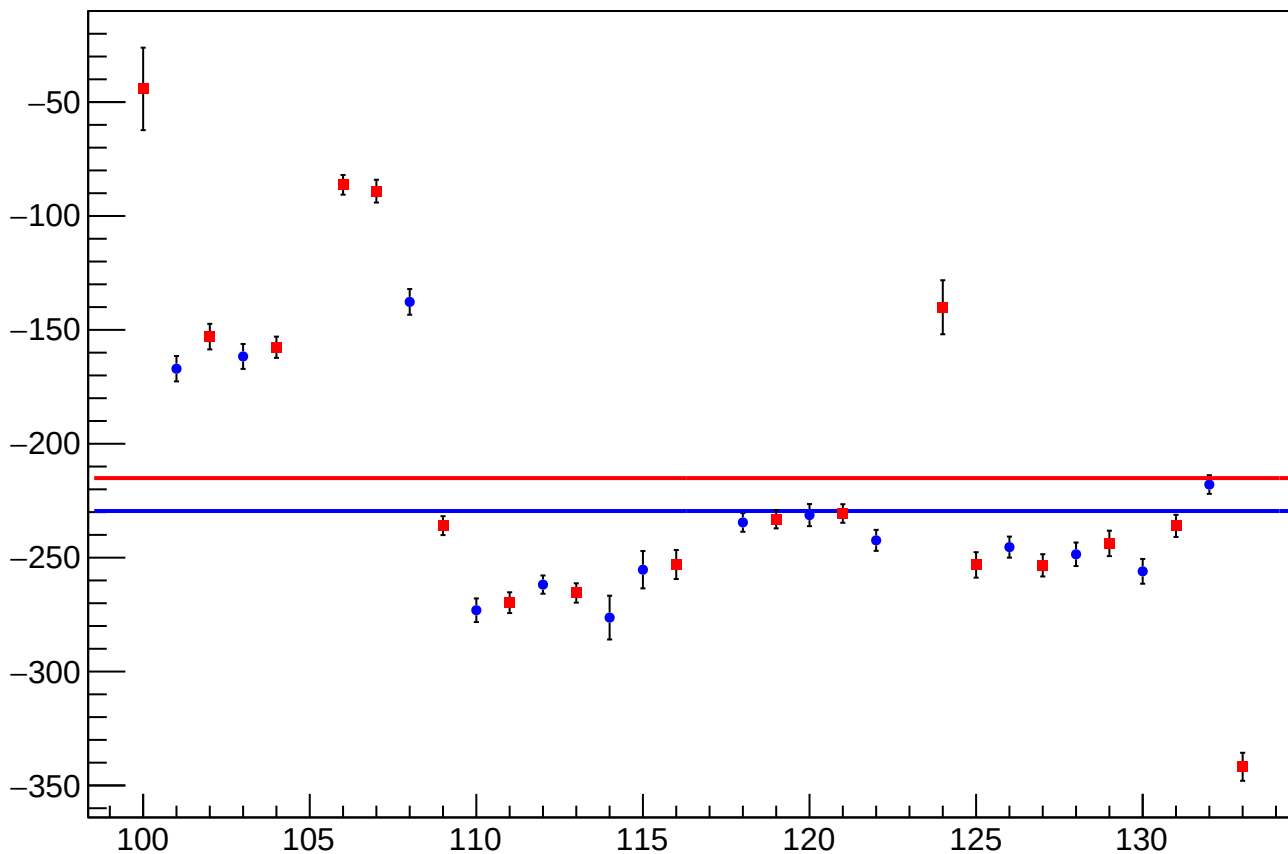
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.317 $\pm$ 0.804  $\chi^2$ /NDF: 530.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -229.523+/-1.350  $\chi^2/\text{NDF}$ : 780.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -215.069+/-1.227  $\chi^2/\text{NDF}$ : 2883.3/16

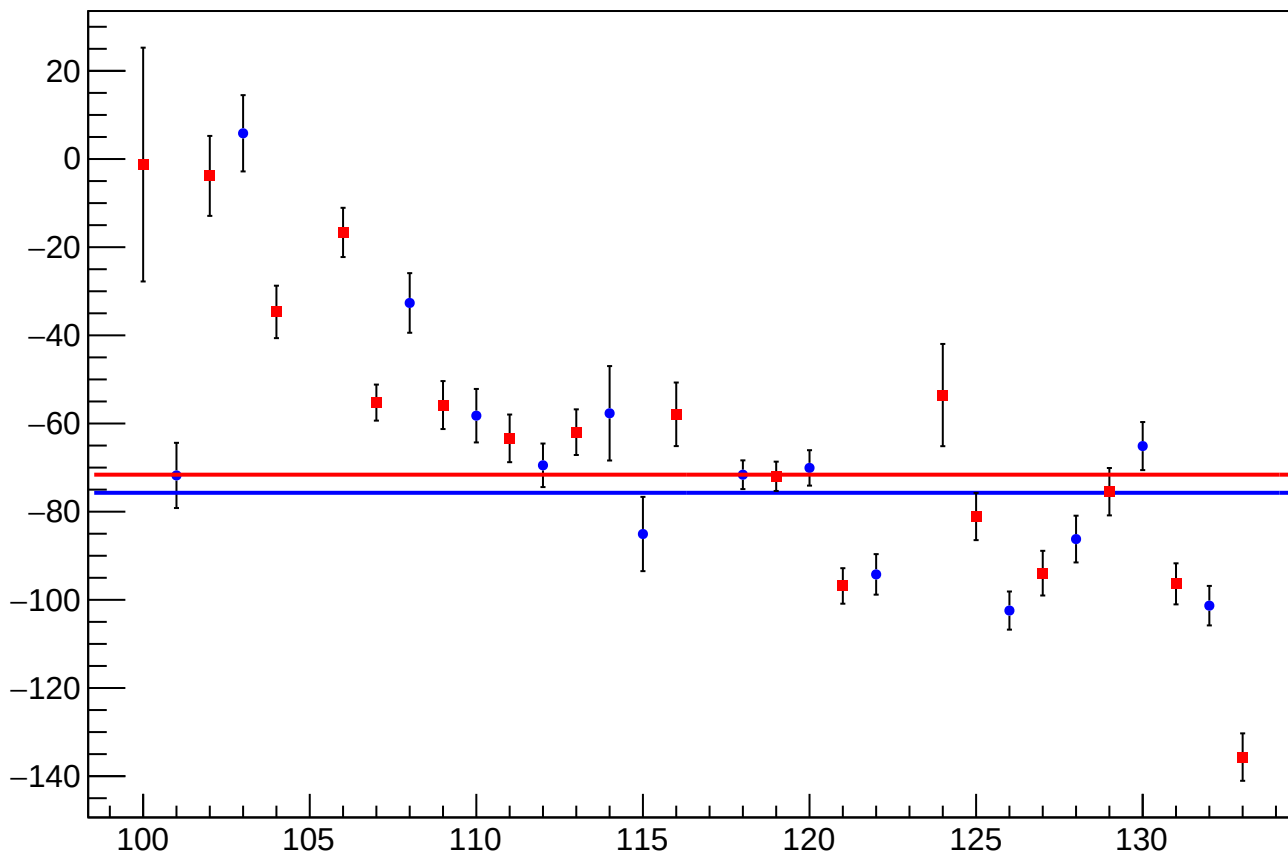
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -221.609+/-0.908  $\chi^2/\text{NDF}$ : 3726.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -75.718 $\pm$ 1.386  $\chi^2$ /NDF: 241.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -71.605 $\pm$ 1.284  $\chi^2$ /NDF: 466.9/16

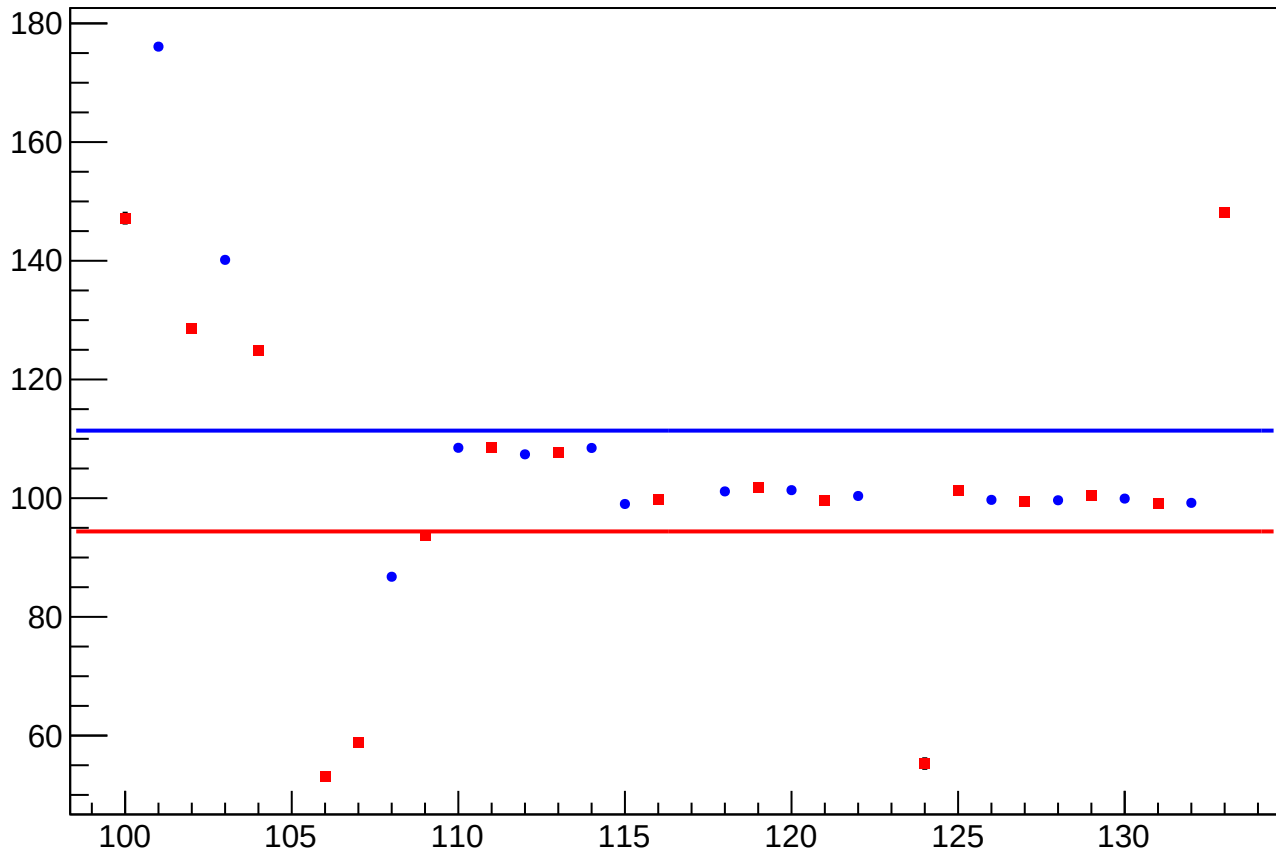
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -73.504 $\pm$ 0.942  $\chi^2$ /NDF: 713.6/30

- 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: 111.384+/-0.092  $\chi^2/\text{NDF}$ : 71924.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.396+/-0.077  $\chi^2/\text{NDF}$ : 138418.0/16

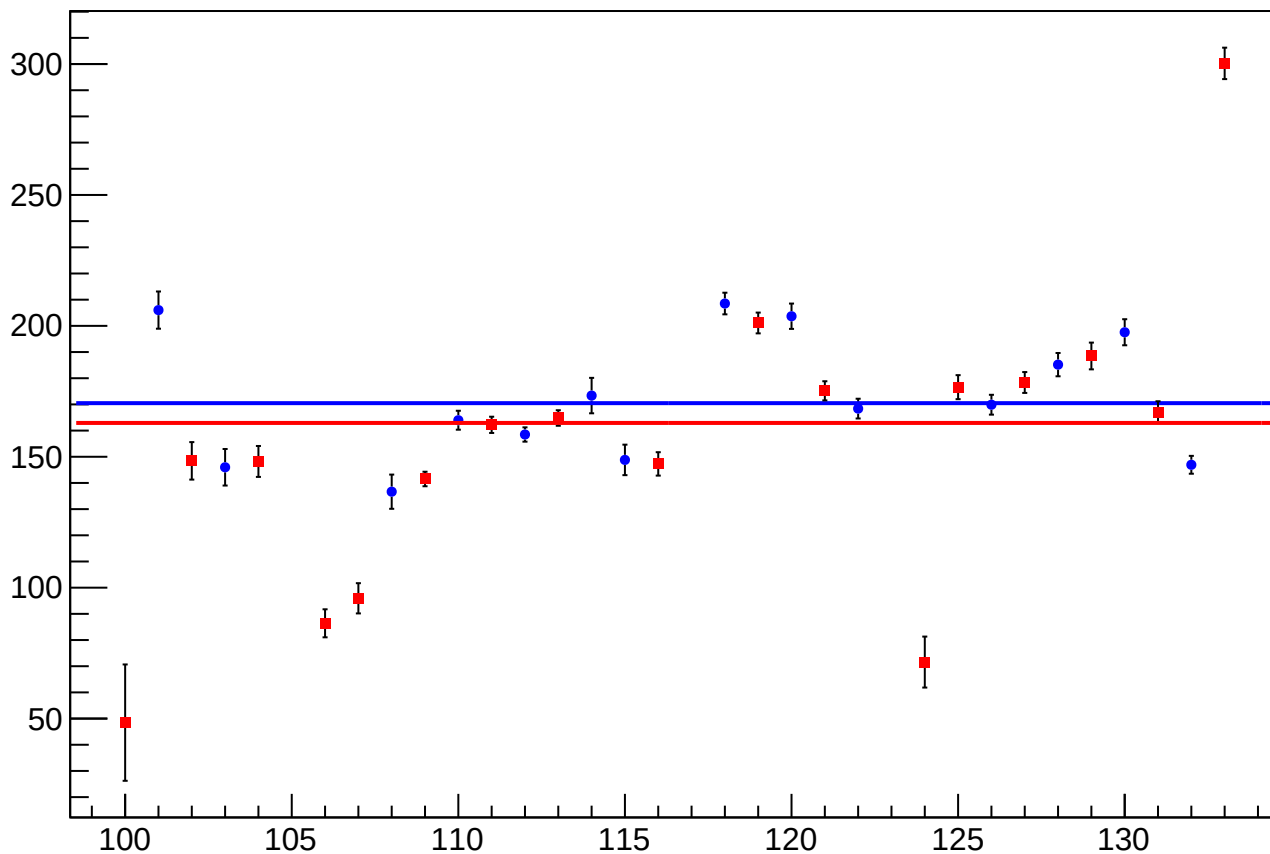
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 101.374+/-0.059  $\chi^2/\text{NDF}$ : 230374.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 170.478+/-1.160  $\chi^2/\text{NDF}$ : 321.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 162.921+/-1.055  $\chi^2/\text{NDF}$ : 1213.8/16

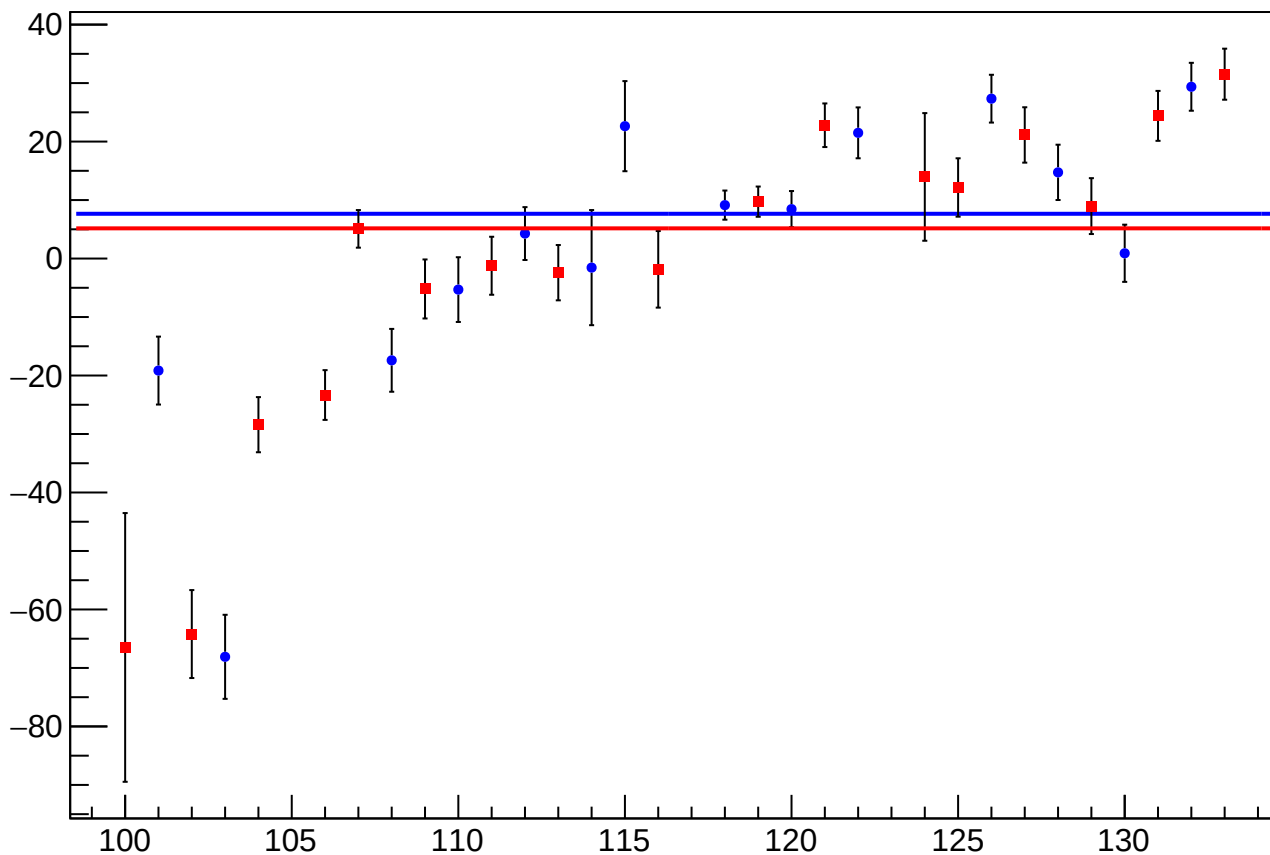
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 166.345+/-0.781  $\chi^2/\text{NDF}$ : 1558.1/30

- 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: 7.654 $\pm$ 1.181  $\chi^2$ /NDF: 230.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5.162 $\pm$ 1.097  $\chi^2$ /NDF: 296.9/16

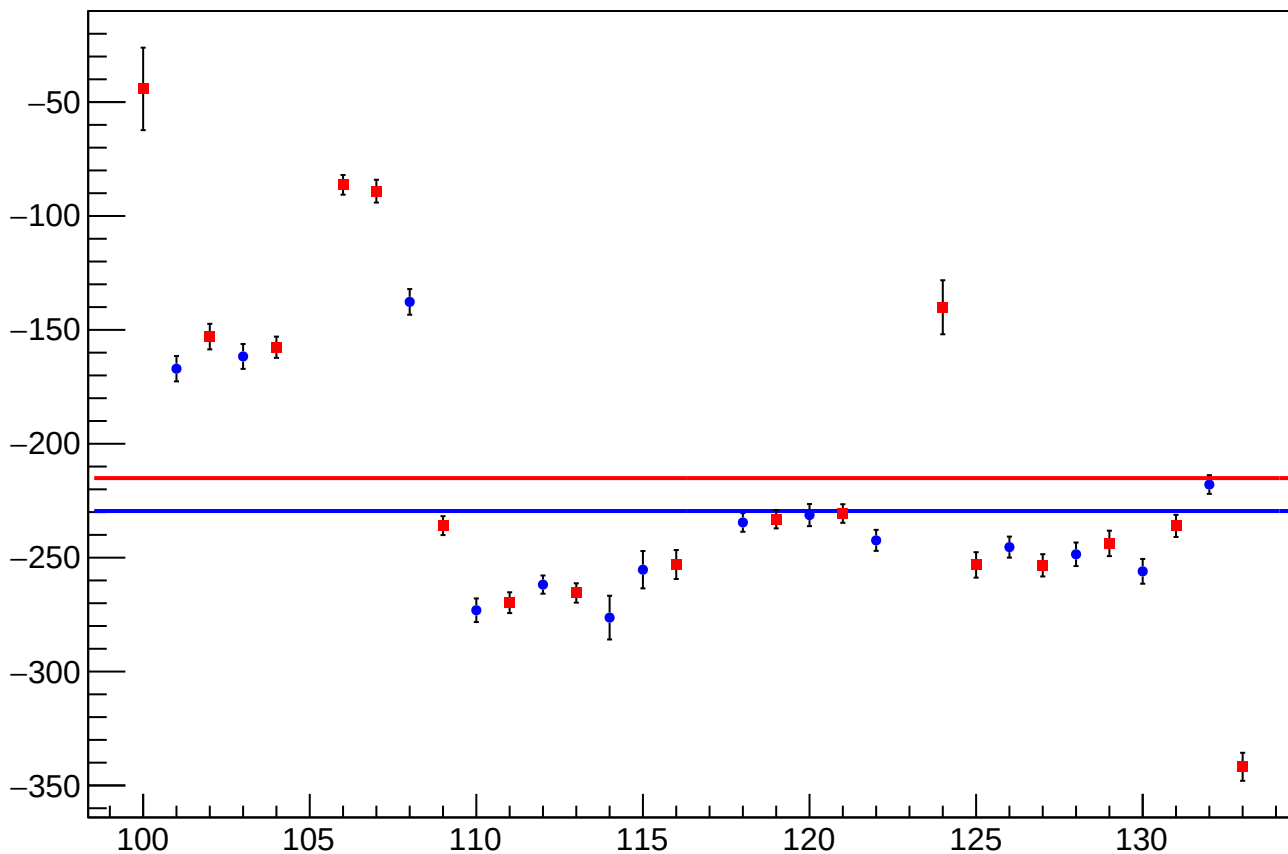
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.317 $\pm$ 0.804  $\chi^2$ /NDF: 530.1/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-229.523 \pm 1.350$   $\chi^2/\text{NDF}$ : 780.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-215.069 \pm 1.227$   $\chi^2/\text{NDF}$ : 2883.3/16

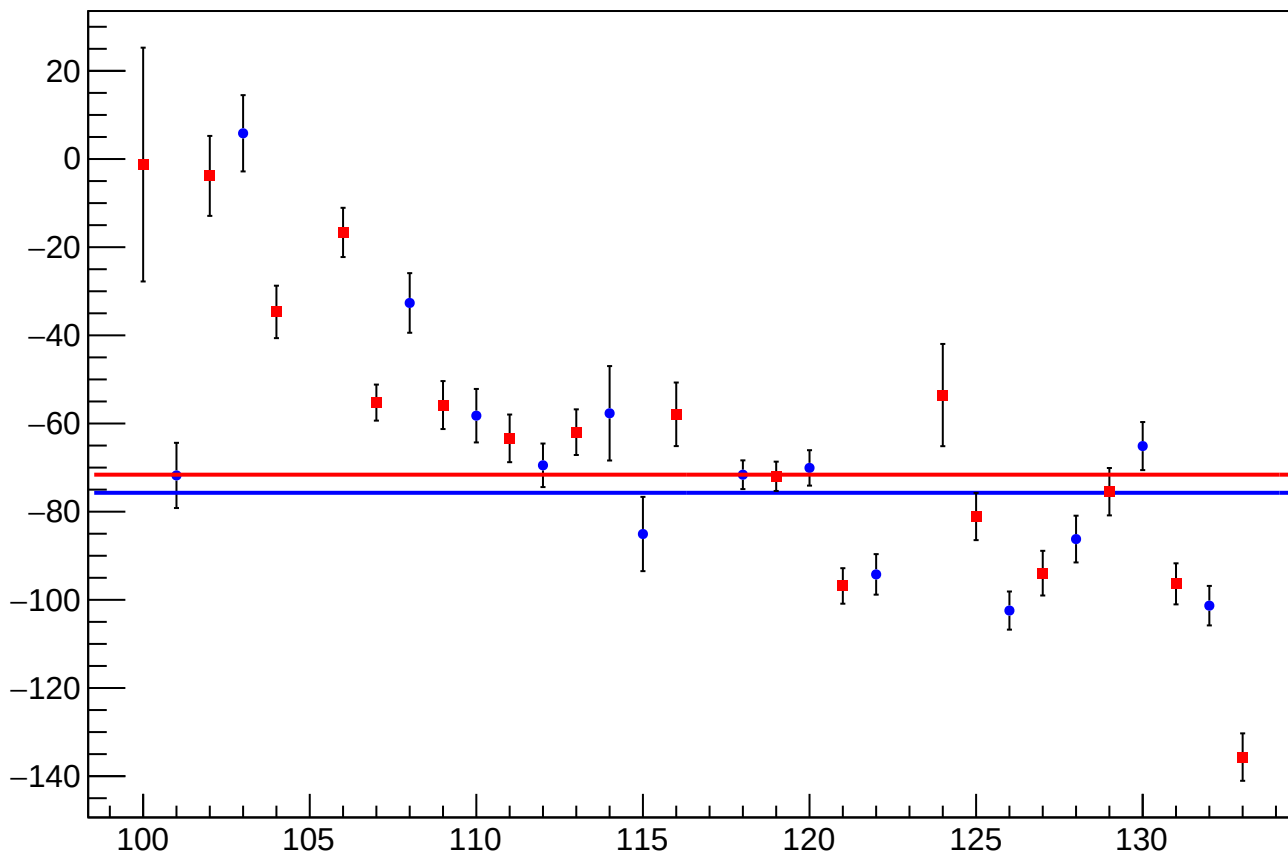
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-221.609 \pm 0.908$   $\chi^2/\text{NDF}$ : 3726.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -75.718 $\pm$ 1.386  $\chi^2$ /NDF: 241.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -71.605 $\pm$ 1.284  $\chi^2$ /NDF: 466.9/16

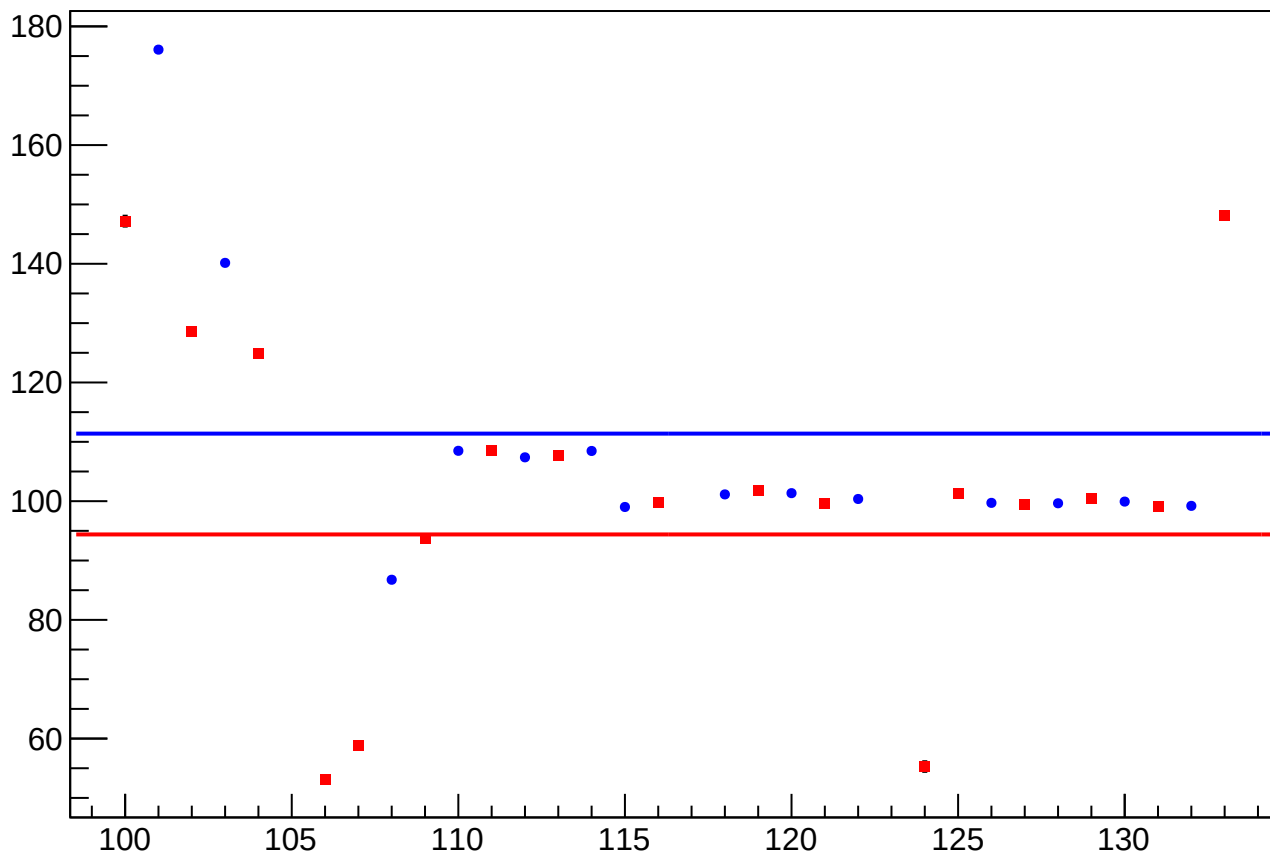
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -73.504 $\pm$ 0.942  $\chi^2$ /NDF: 713.6/30

- 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: 111.384+/-0.092  $\chi^2/\text{NDF}$ : 71924.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 94.396+/-0.077  $\chi^2/\text{NDF}$ : 138418.0/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

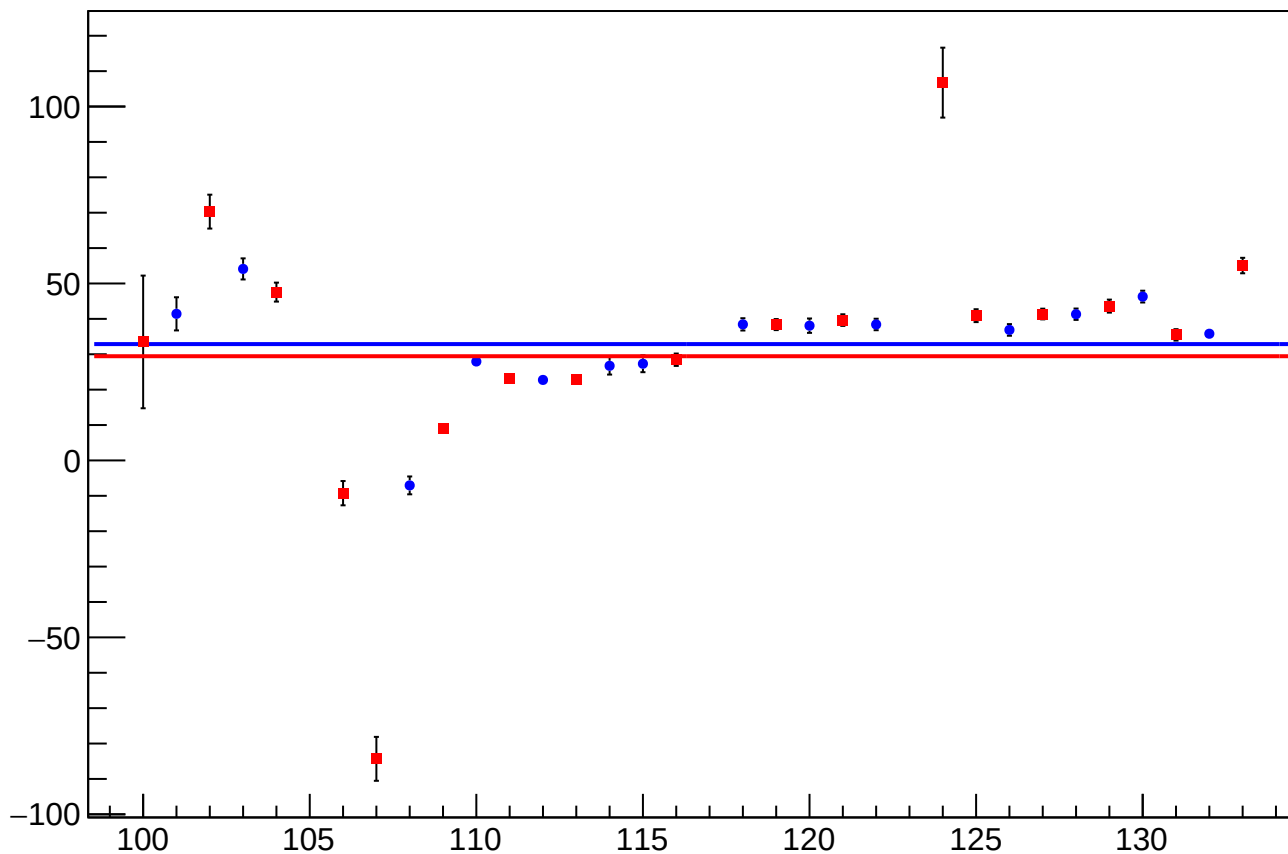
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 101.374+/-0.059  $\chi^2/\text{NDF}$ : 230374.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $32.872 \pm 0.462$   $\chi^2/\text{NDF}$ : 545.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $29.445 \pm 0.434$   $\chi^2/\text{NDF}$ : 1444.4/16

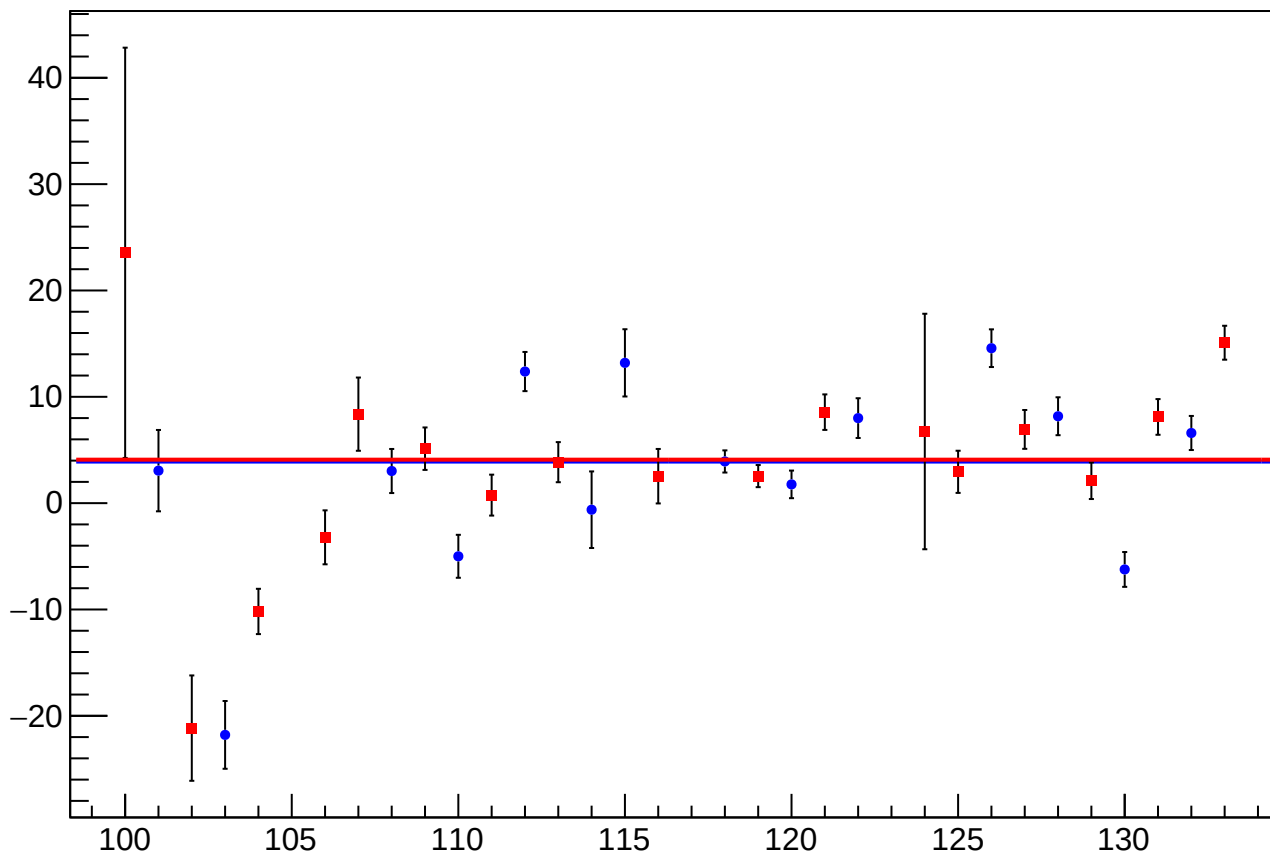
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $31.051 \pm 0.316$   $\chi^2/\text{NDF}$ : 2018.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 3.910 $\pm$ 0.482  $\chi^2$ /NDF: 206.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.089 $\pm$ 0.477  $\chi^2$ /NDF: 152.2/16

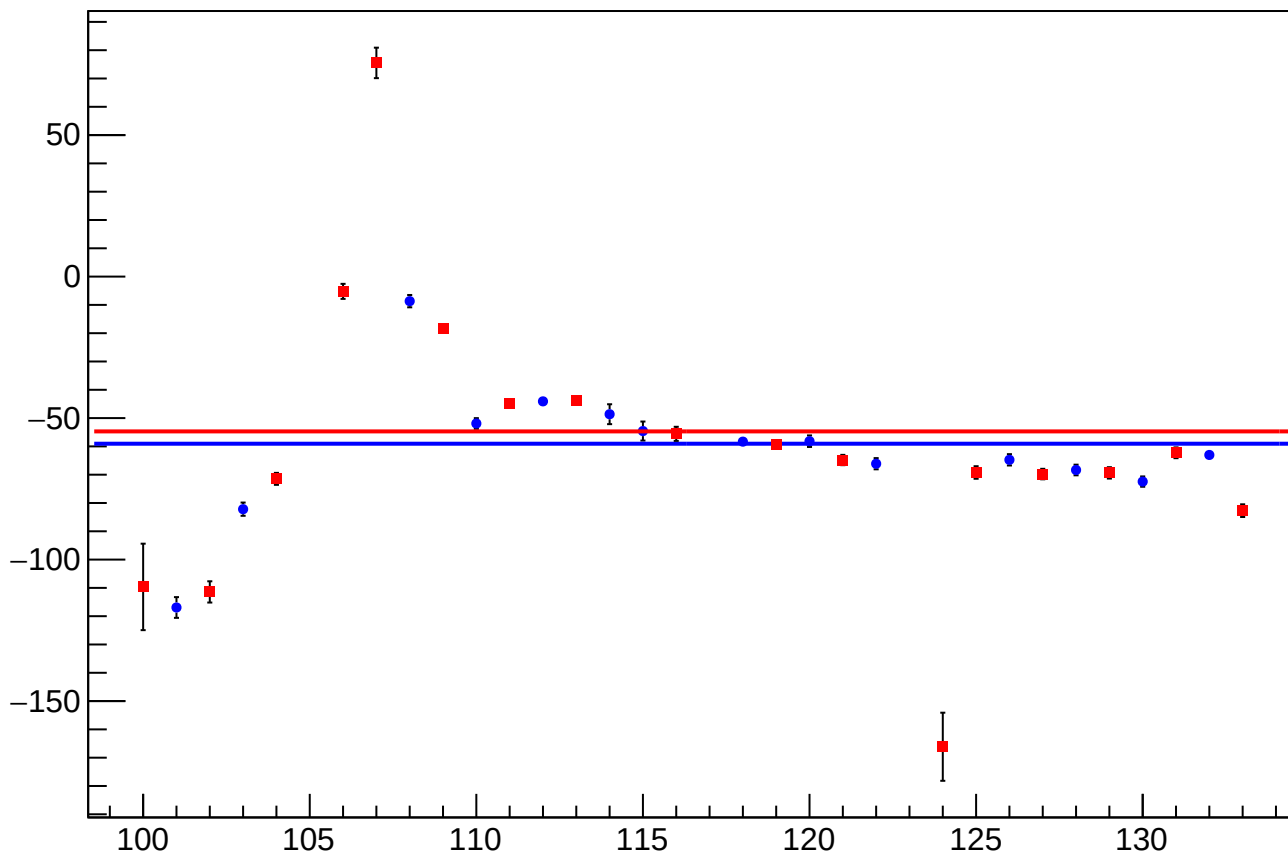
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.000 $\pm$ 0.339  $\chi^2$ /NDF: 358.9/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-59.055 \pm 0.546$   $\chi^2/\text{NDF}$ : 1097.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-54.703 \pm 0.527$   $\chi^2/\text{NDF}$ : 2277.6/16

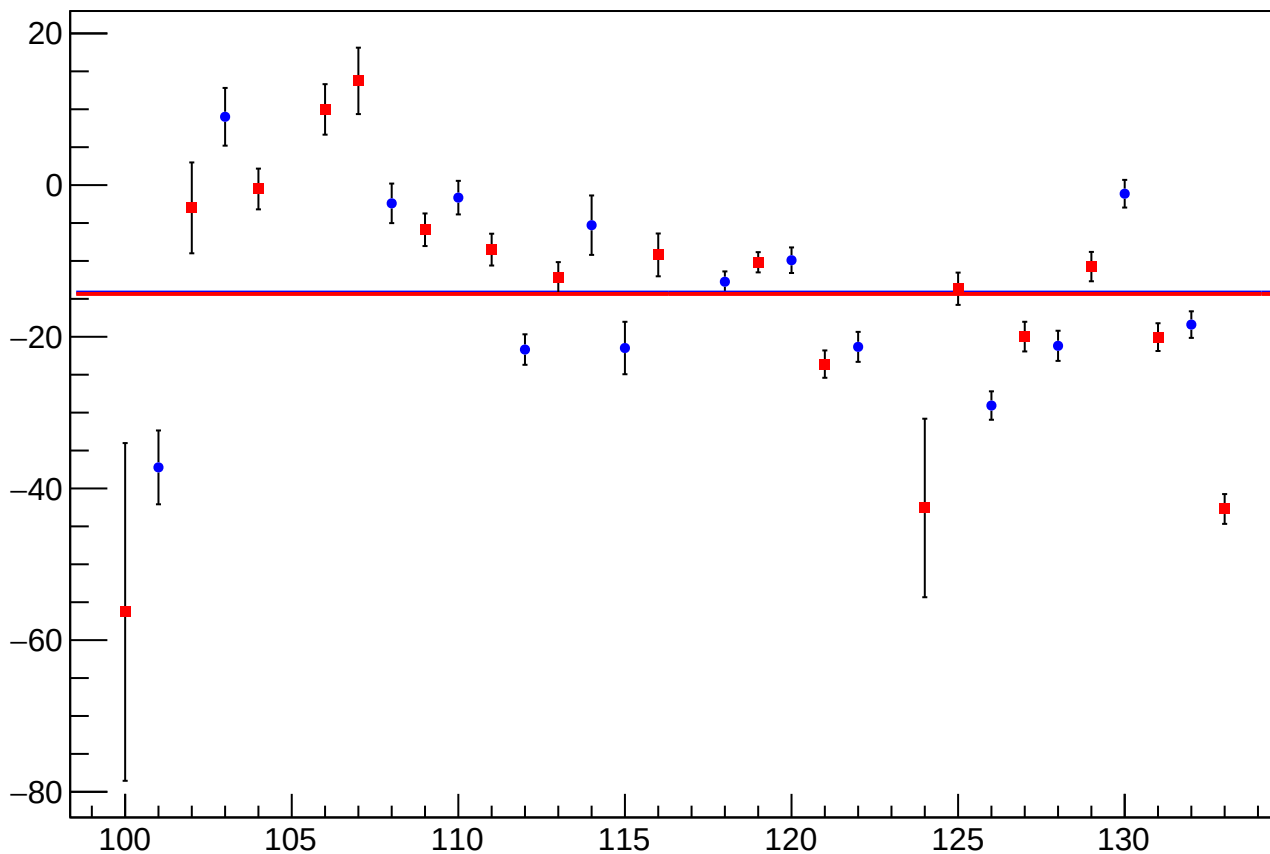
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-56.801 \pm 0.379$   $\chi^2/\text{NDF}$ : 3407.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -14.175 $\pm$ 0.562  $\chi^2$ /NDF: 288.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -14.348 $\pm$ 0.551  $\chi^2$ /NDF: 427.5/16

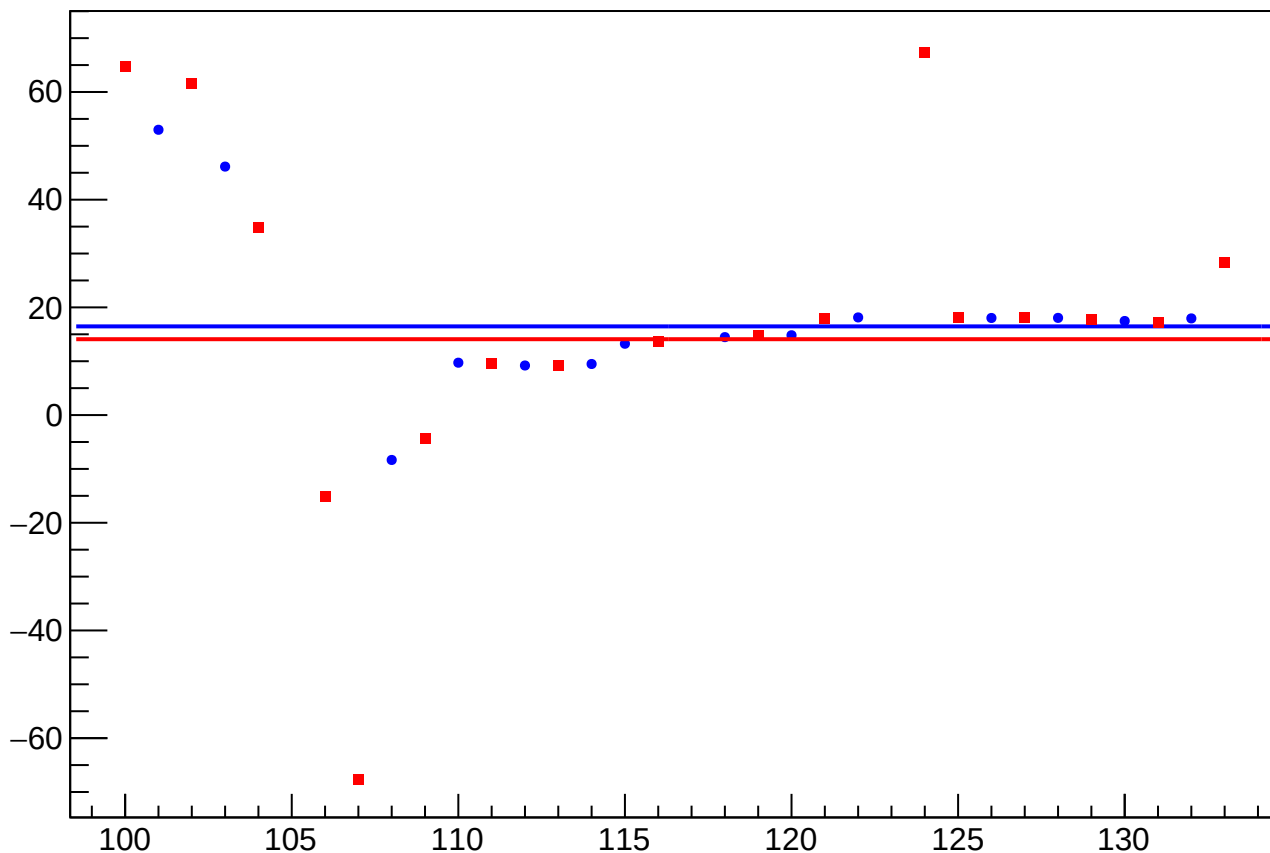
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.263 $\pm$ 0.393  $\chi^2$ /NDF: 716.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $16.470 \pm 0.038$   $\chi^2/\text{NDF}$ : 204950.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $14.090 \pm 0.037$   $\chi^2/\text{NDF}$ : 360774.1/16

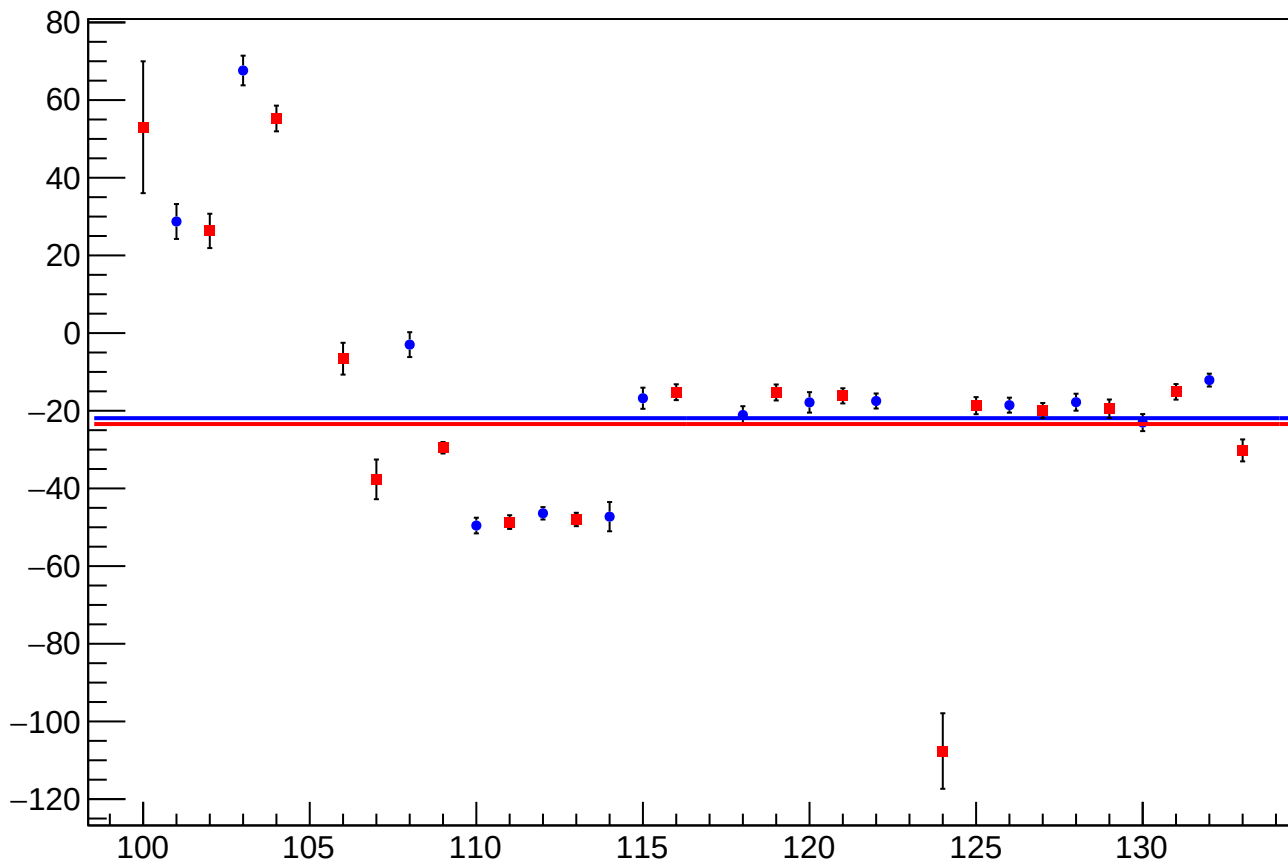
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $15.260 \pm 0.026$   $\chi^2/\text{NDF}$ : 567752.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -21.908 $\pm$ 0.607  $\chi^2$ /NDF: 1233.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -23.422 $\pm$ 0.565  $\chi^2$ /NDF: 1316.2/16

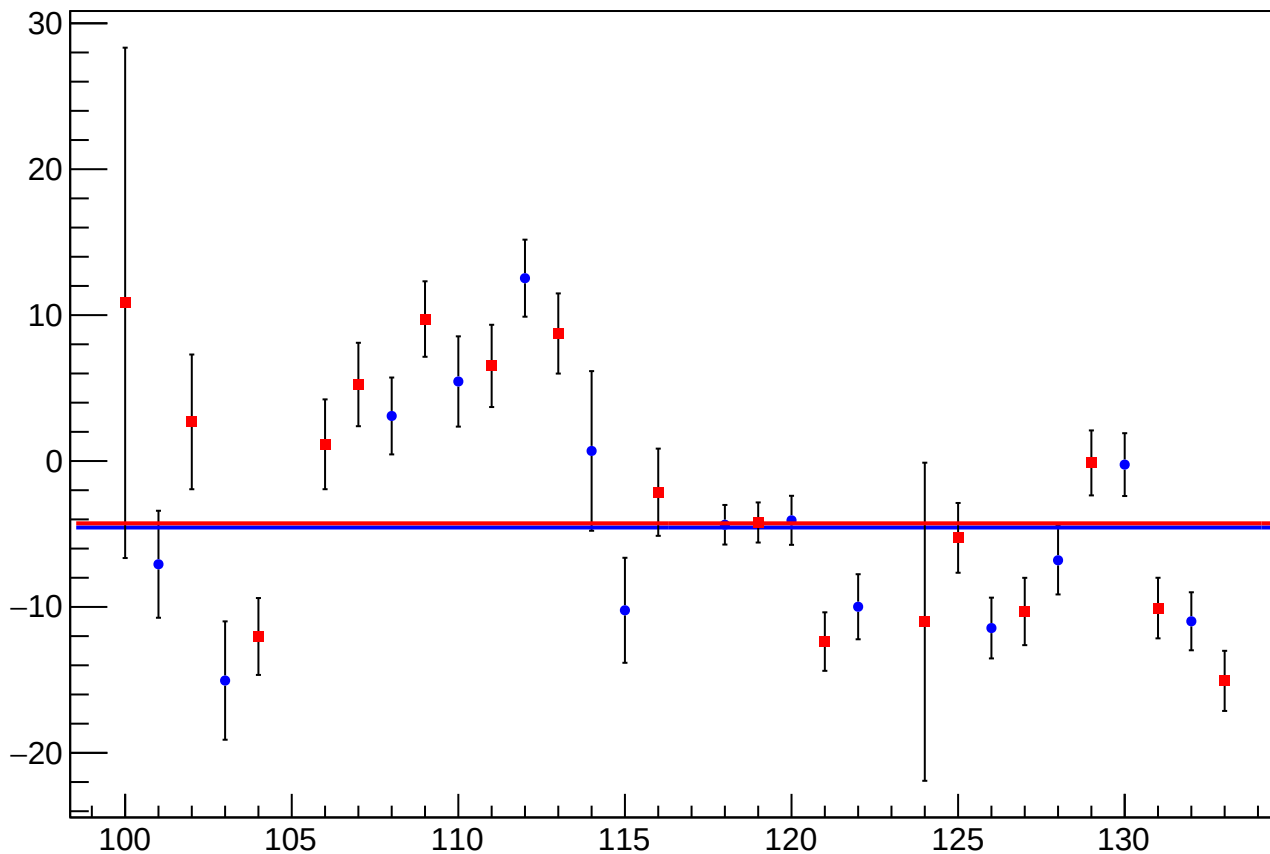
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -22.719 $\pm$ 0.413  $\chi^2$ /NDF: 2552.9/30

- 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: -4.555 $\pm$ 0.618  $\chi^2$ /NDF: 103.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -4.270 $\pm$ 0.602  $\chi^2$ /NDF: 155.2/16

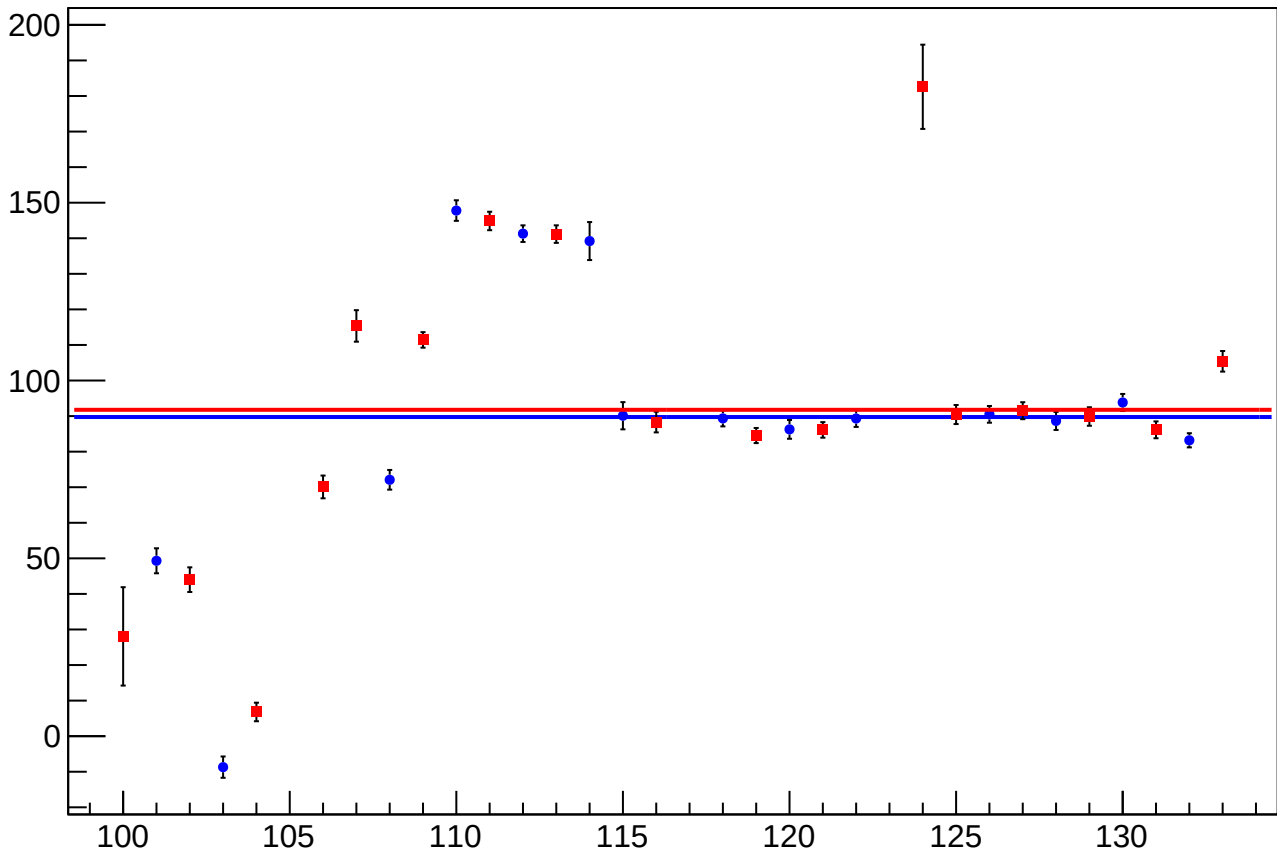
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -4.409 $\pm$ 0.431  $\chi^2$ /NDF: 259.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 89.736 $\pm$ 0.705  $\chi^2$ /NDF: 2244.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 91.767 $\pm$ 0.671  $\chi^2$ /NDF: 2353.1/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

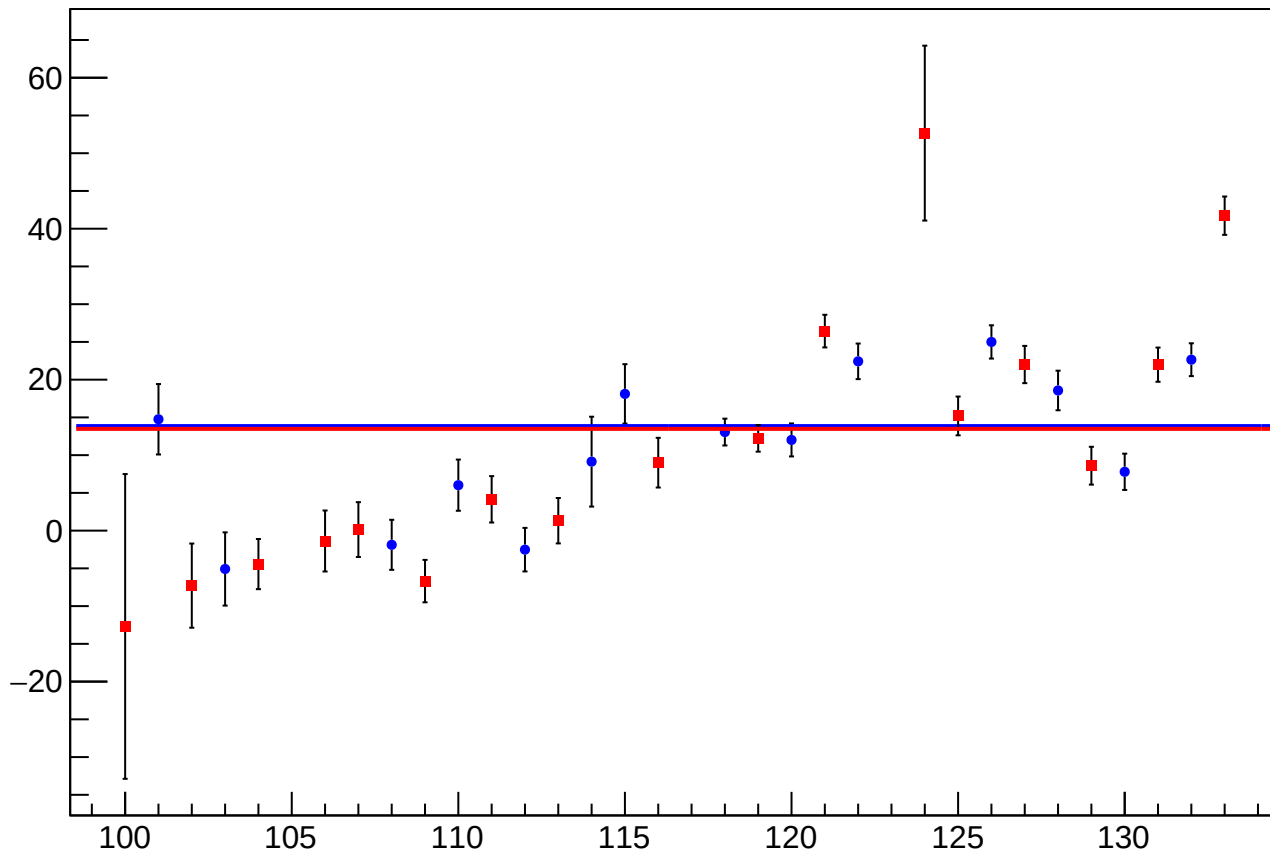
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 90.803 $\pm$ 0.486  $\chi^2$ /NDF: 4601.7/30

- 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: 13.849 $\pm$ 0.721  $\chi^2$ /NDF: 142.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13.481 $\pm$ 0.696  $\chi^2$ /NDF: 352.4/16

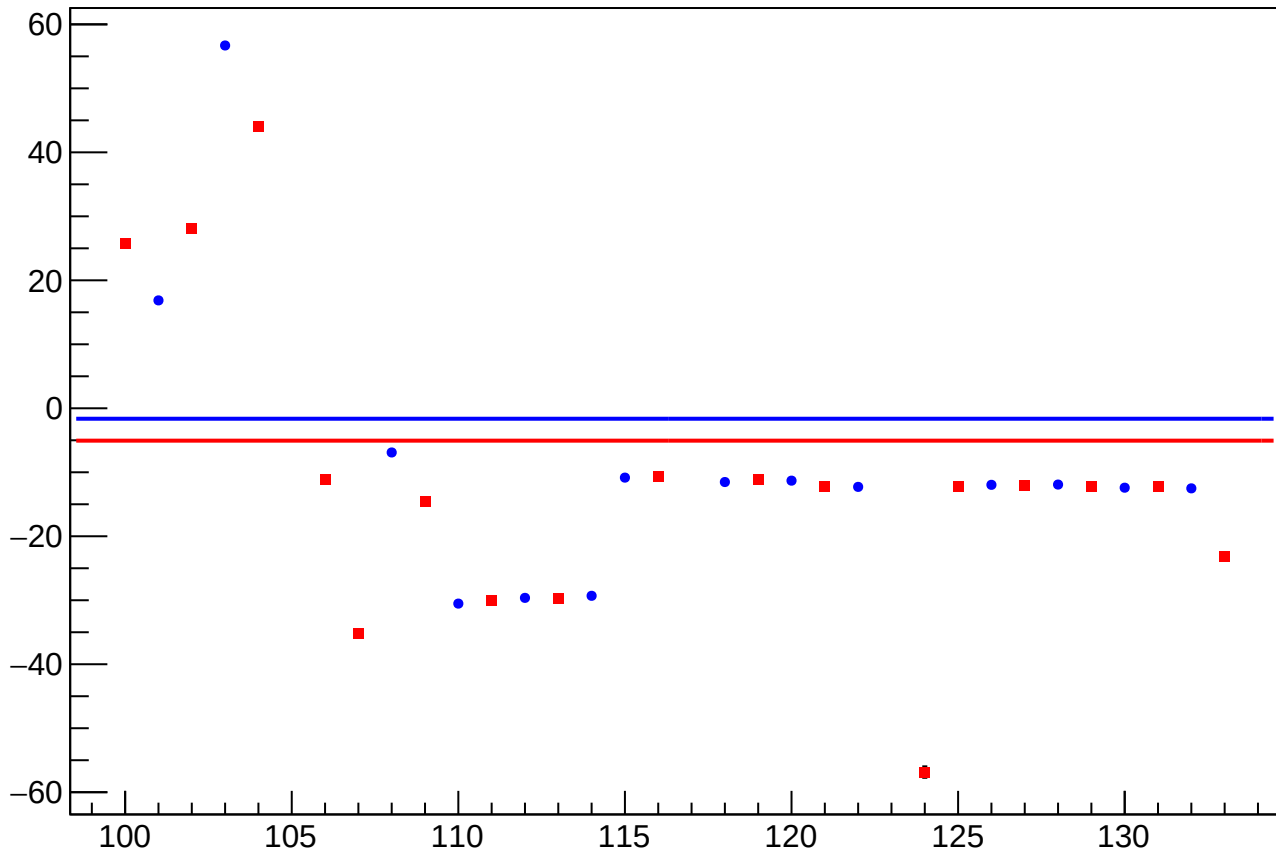
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 13.658 $\pm$ 0.501  $\chi^2$ /NDF: 495.3/30

- 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: -1.633+/-0.048  $\chi^2/\text{NDF}$ : 290197.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.058+/-0.045  $\chi^2/\text{NDF}$ : 287021.5/16

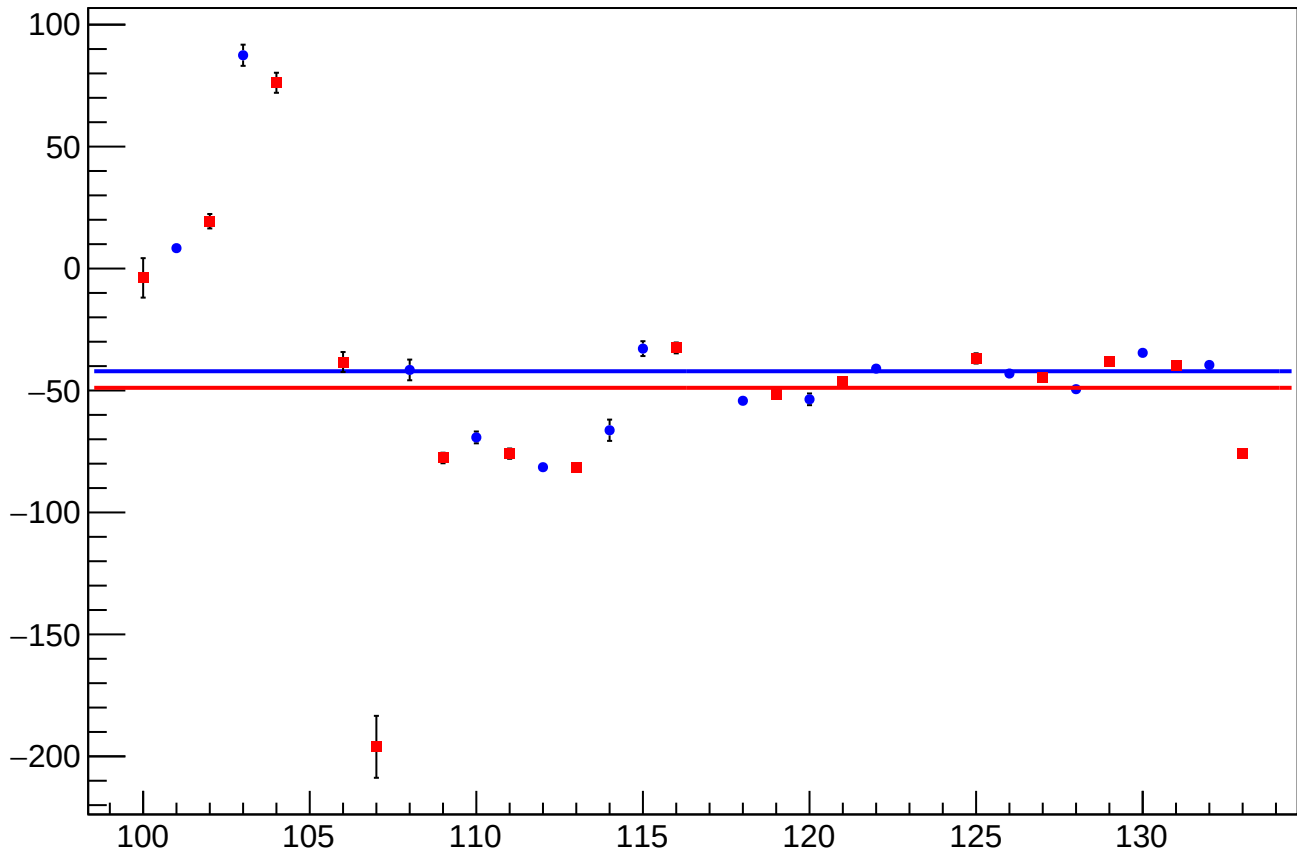
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.447+/-0.033  $\chi^2/\text{NDF}$ : 579893.7/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl1\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-42.103 \pm 0.584$   $\chi^2/\text{NDF}$ : 2206.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-48.898 \pm 0.568$   $\chi^2/\text{NDF}$ : 2600.2/15

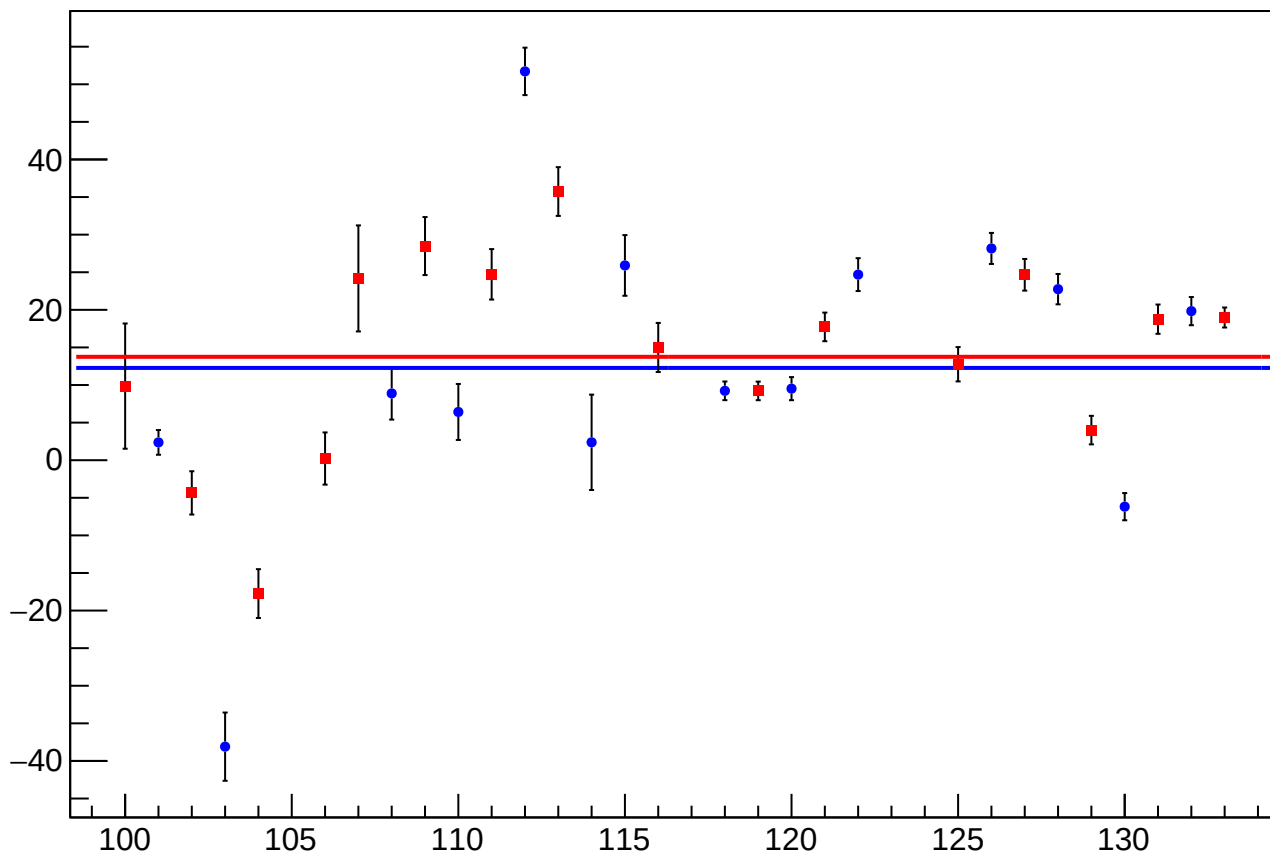
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-45.593 \pm 0.407$   $\chi^2/\text{NDF}$ : 4876.5/29

- 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: 12.274+/-0.567  $\chi^2/\text{NDF}$ : 581.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13.752+/-0.565  $\chi^2/\text{NDF}$ : 315.8/15

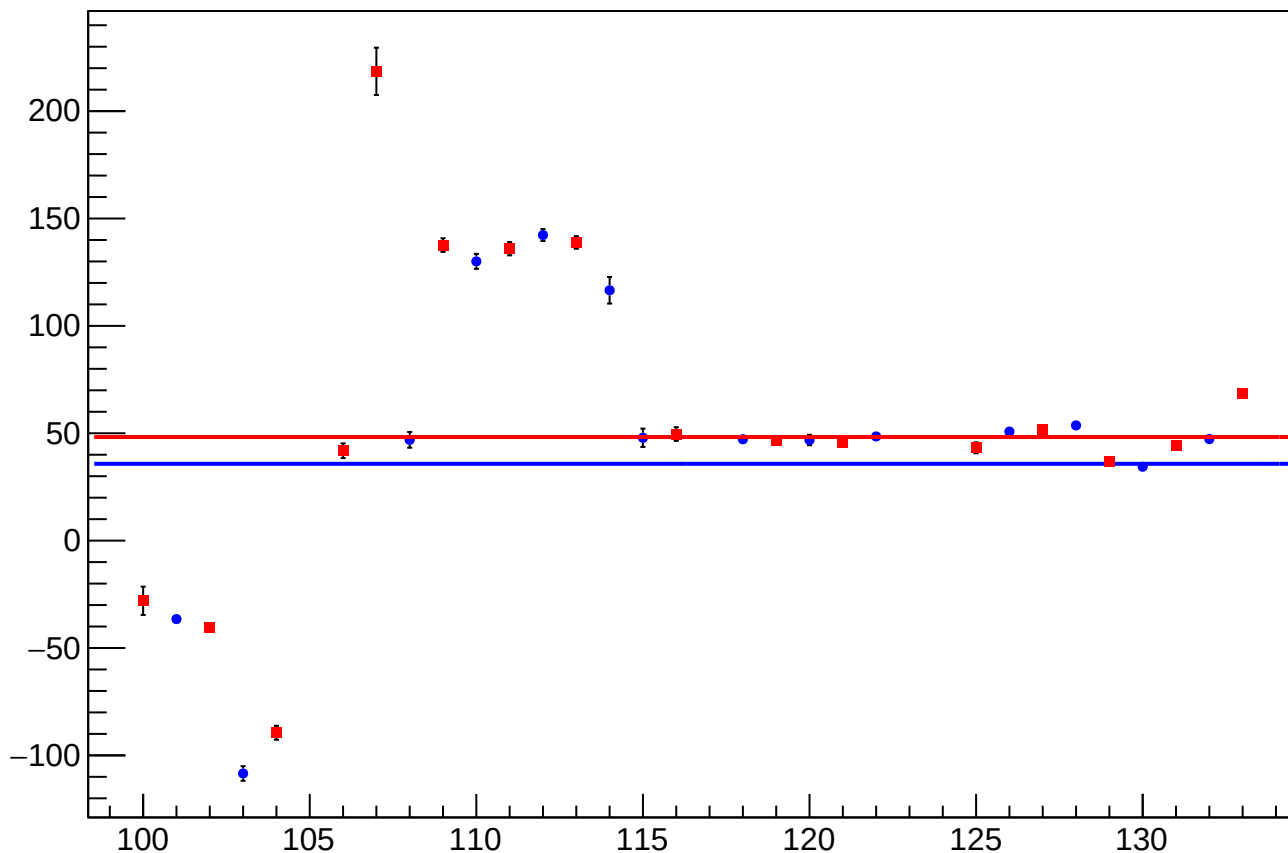
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.015+/-0.400  $\chi^2/\text{NDF}$ : 900.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 35.776+/-0.647  $\chi^2$ /NDF: 6520.7/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 48.245+/-0.647  $\chi^2$ /NDF: 6366.9/15

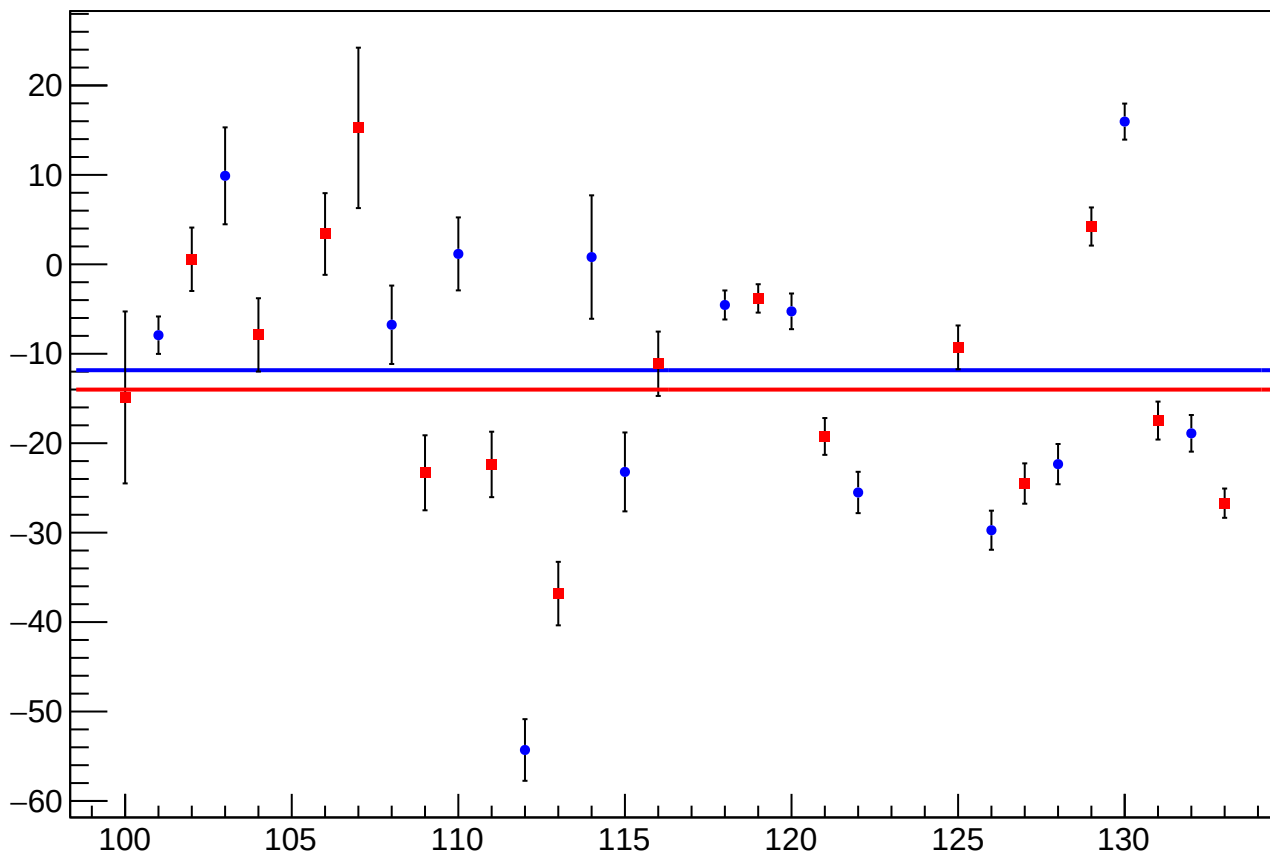
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 42.013+/-0.457  $\chi^2$ /NDF: 13073.4/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usl\_atl1\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-11.838 \pm 0.668$   $\chi^2/\text{NDF}$ : 550.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-14.006 \pm 0.658$   $\chi^2/\text{NDF}$ : 305.5/15

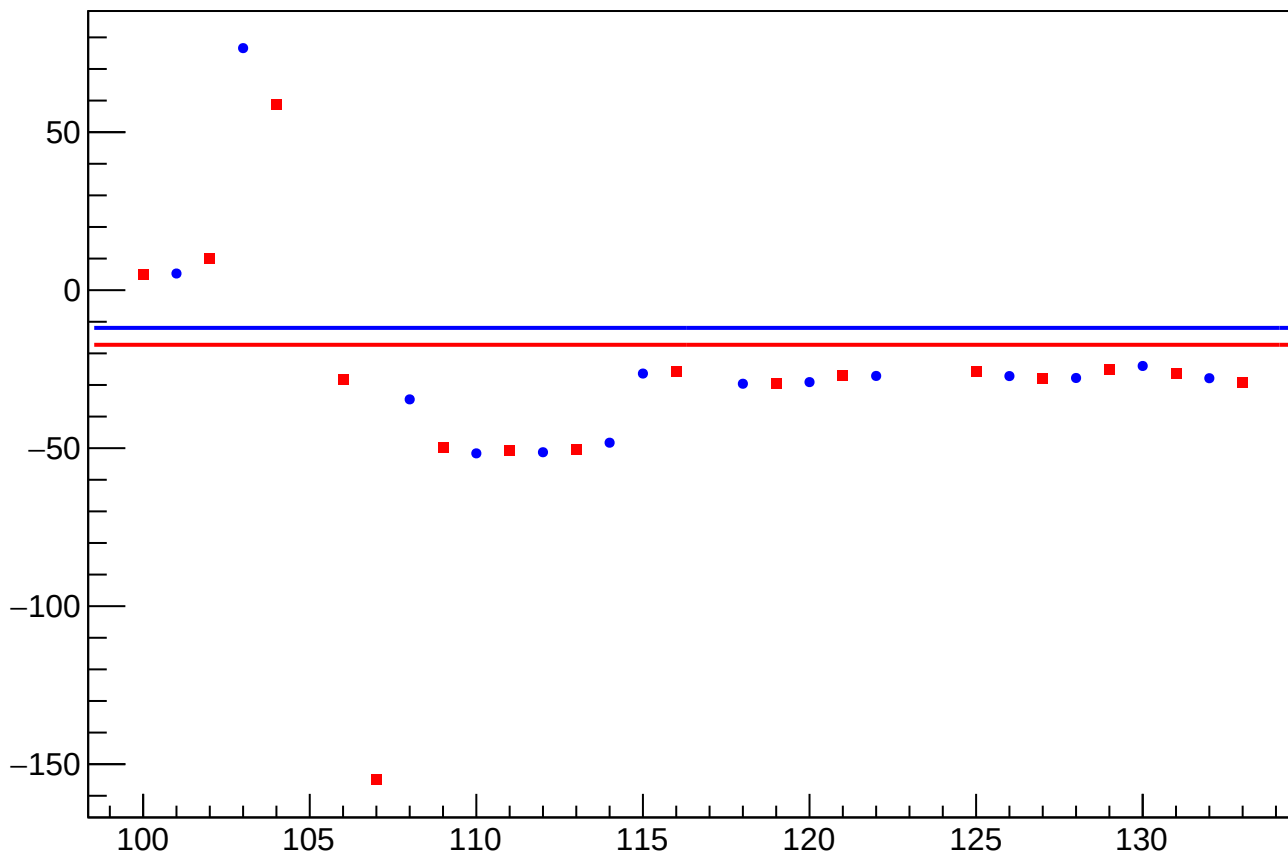
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-12.939 \pm 0.469$   $\chi^2/\text{NDF}$ : 860.8/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl1\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -11.933+/-0.045  $\chi^2/\text{NDF}$ : 560545.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -17.287+/-0.044  $\chi^2/\text{NDF}$ : 500442.4/15

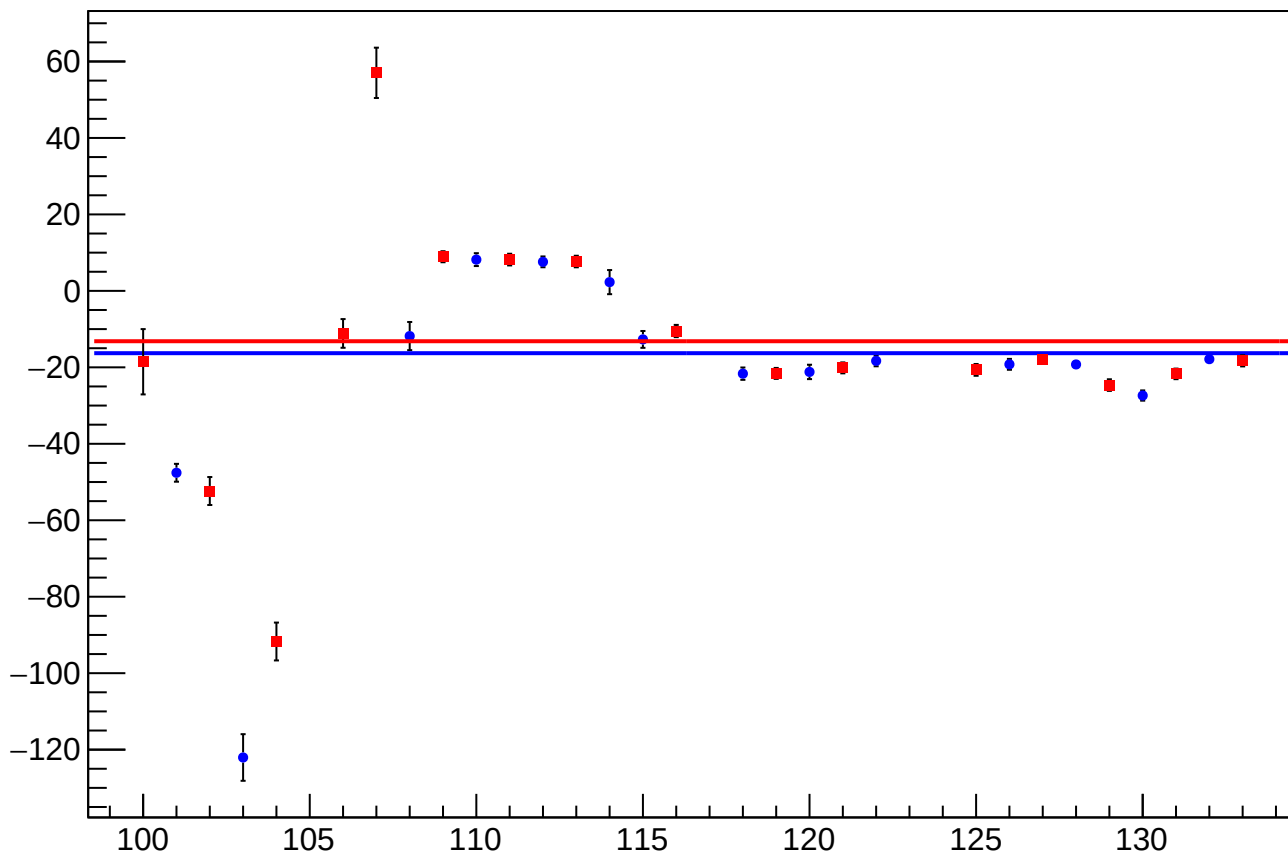
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.667+/-0.031  $\chi^2/\text{NDF}$ : 1068217.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl1\_dd\_diff\_bpm1X\_slope vs Slug



Right In: -16.299+/-0.447  $\chi^2/\text{NDF}$ : 1115.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13.172+/-0.430  $\chi^2/\text{NDF}$ : 1307.5/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

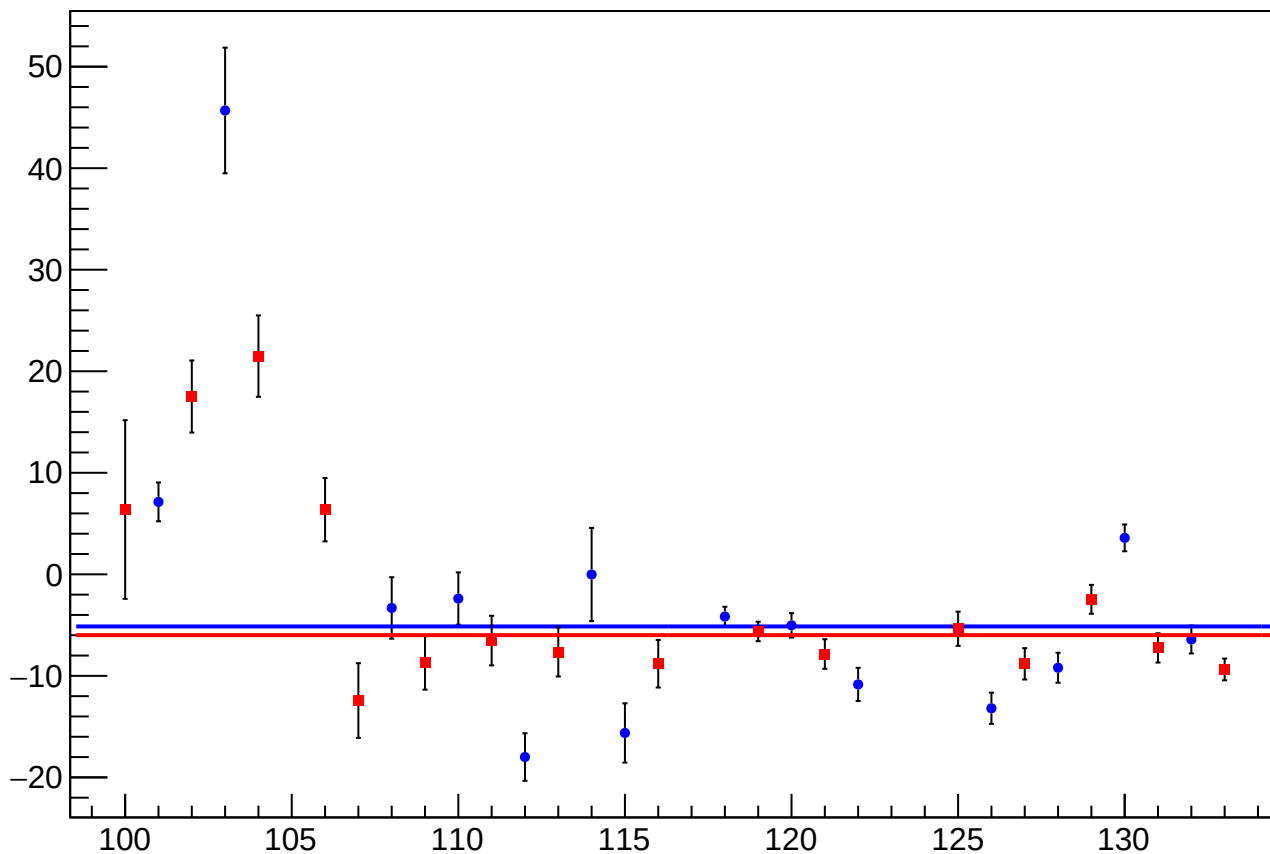
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.677+/-0.310  $\chi^2/\text{NDF}$ : 2448.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_usl\_atl1\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -5.133+/-0.446  $\chi^2/\text{NDF}$ : 247.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.990+/-0.440  $\chi^2/\text{NDF}$ : 136.6/15

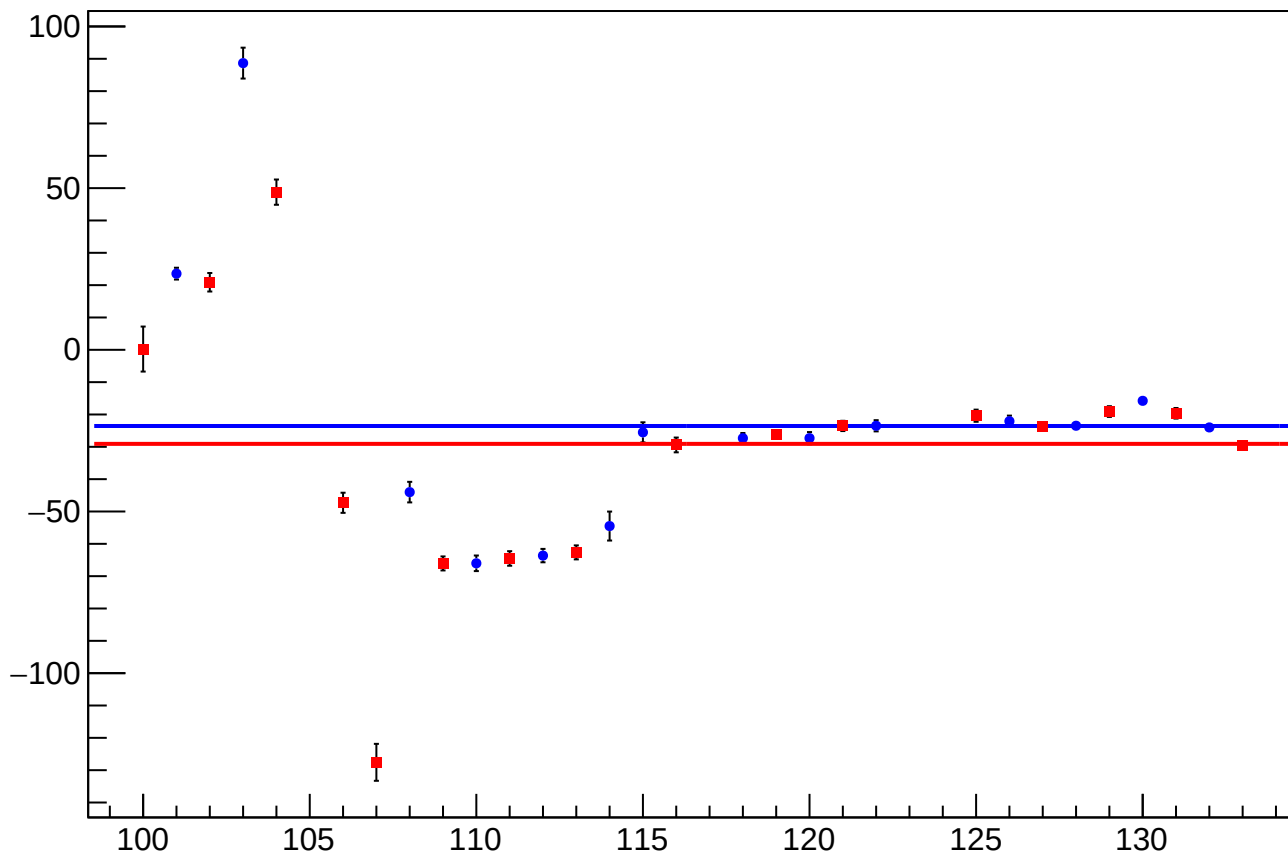
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.567+/-0.313  $\chi^2/\text{NDF}$ : 385.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-23.558 \pm 0.516$   $\chi^2/\text{NDF}$ : 2030.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-29.086 \pm 0.507$   $\chi^2/\text{NDF}$ : 1951.3/15

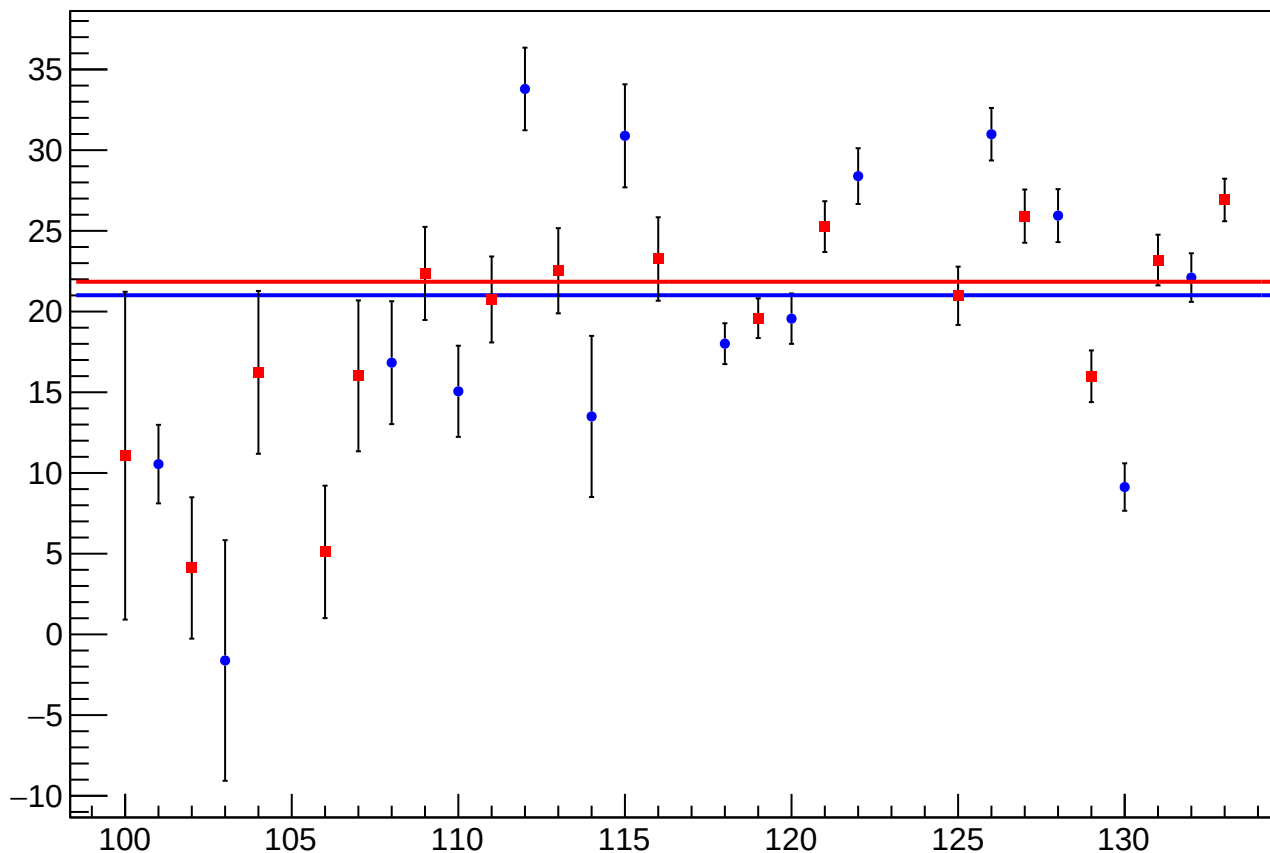
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-26.370 \pm 0.362$   $\chi^2/\text{NDF}$ : 4040.2/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 21.011+/-0.520  $\chi^2/\text{NDF}$ : 207.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.847+/-0.508  $\chi^2/\text{NDF}$ : 80.9/15

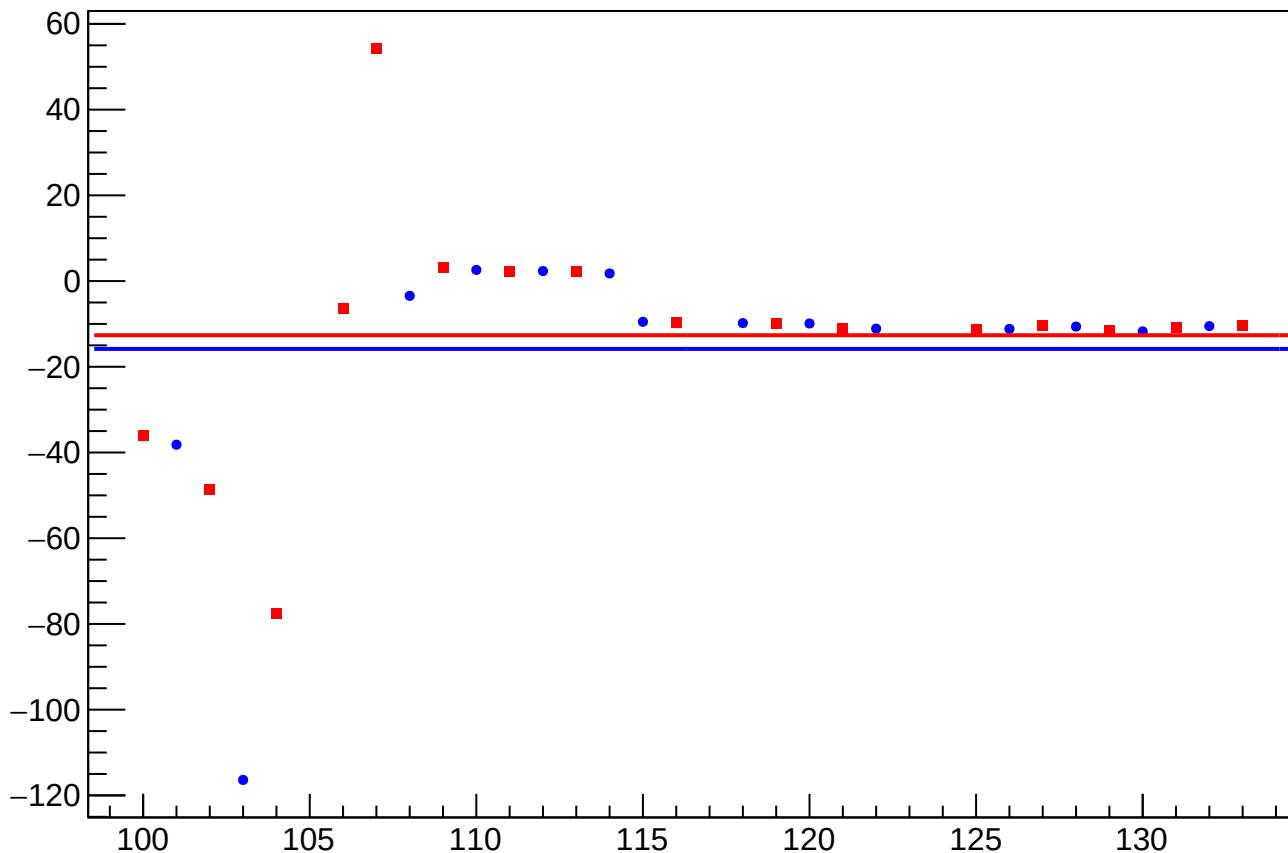
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.439+/-0.364  $\chi^2/\text{NDF}$ : 289.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl1\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -15.830+/-0.038  $\chi^2/\text{NDF}$ : 333141.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12.640+/-0.037  $\chi^2/\text{NDF}$ : 311528.7/15

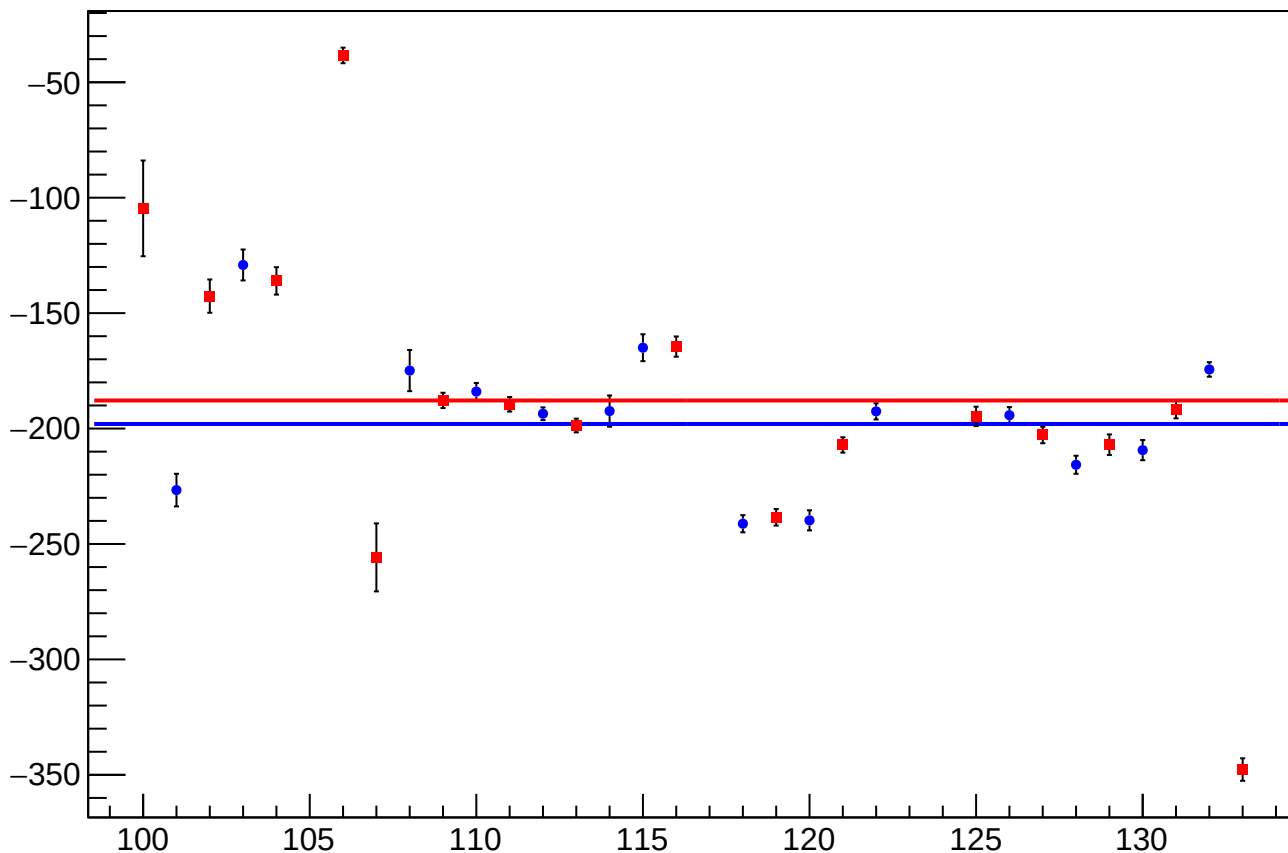
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.174+/-0.027  $\chi^2/\text{NDF}$ : 648284.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl2\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $-198.021 \pm 1.108$   $\chi^2/\text{NDF}$ : 491.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-187.842 \pm 1.016$   $\chi^2/\text{NDF}$ : 3519.8/15

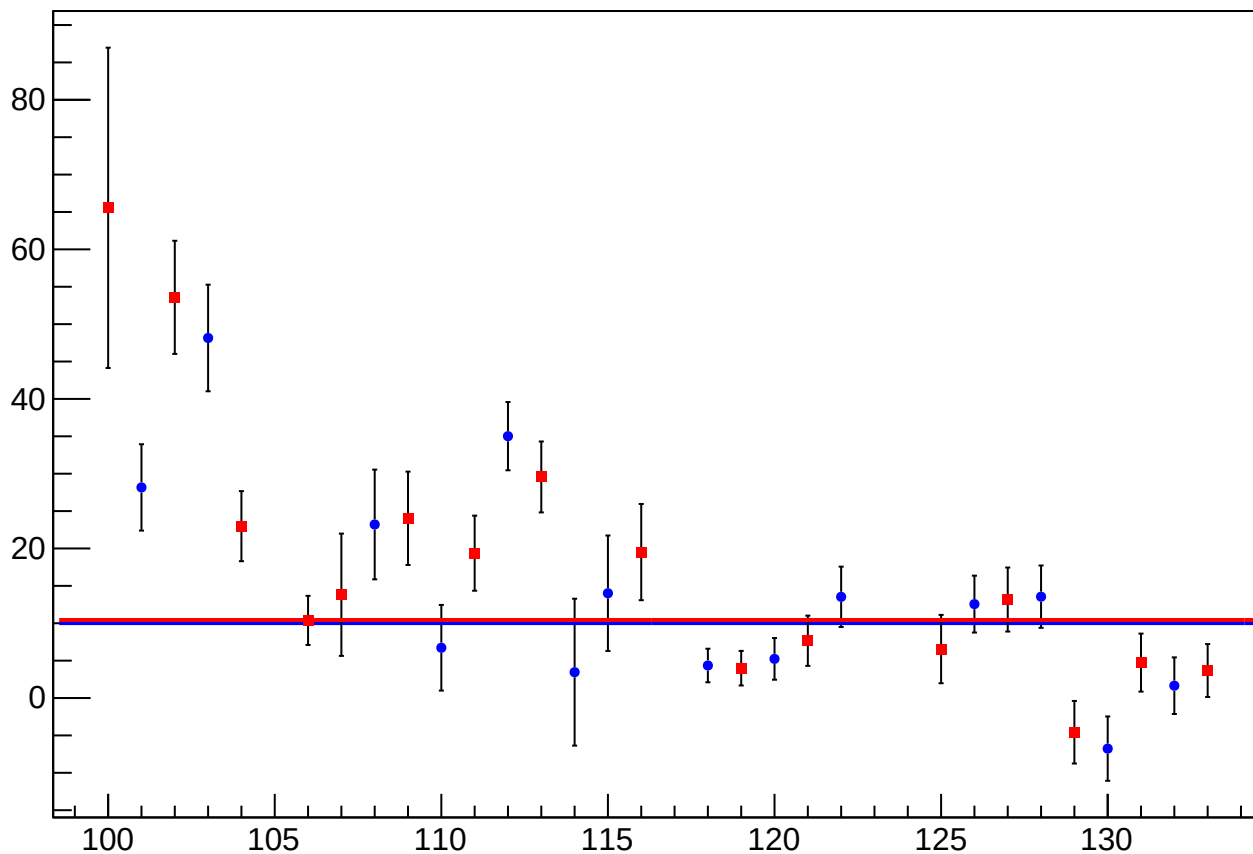
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-192.492 \pm 0.749$   $\chi^2/\text{NDF}$ : 4057.6/29

- 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: 10.020 $\pm$ 1.109  $\chi^2$ /NDF: 104.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.436 $\pm$ 1.061  $\chi^2$ /NDF: 100.9/15

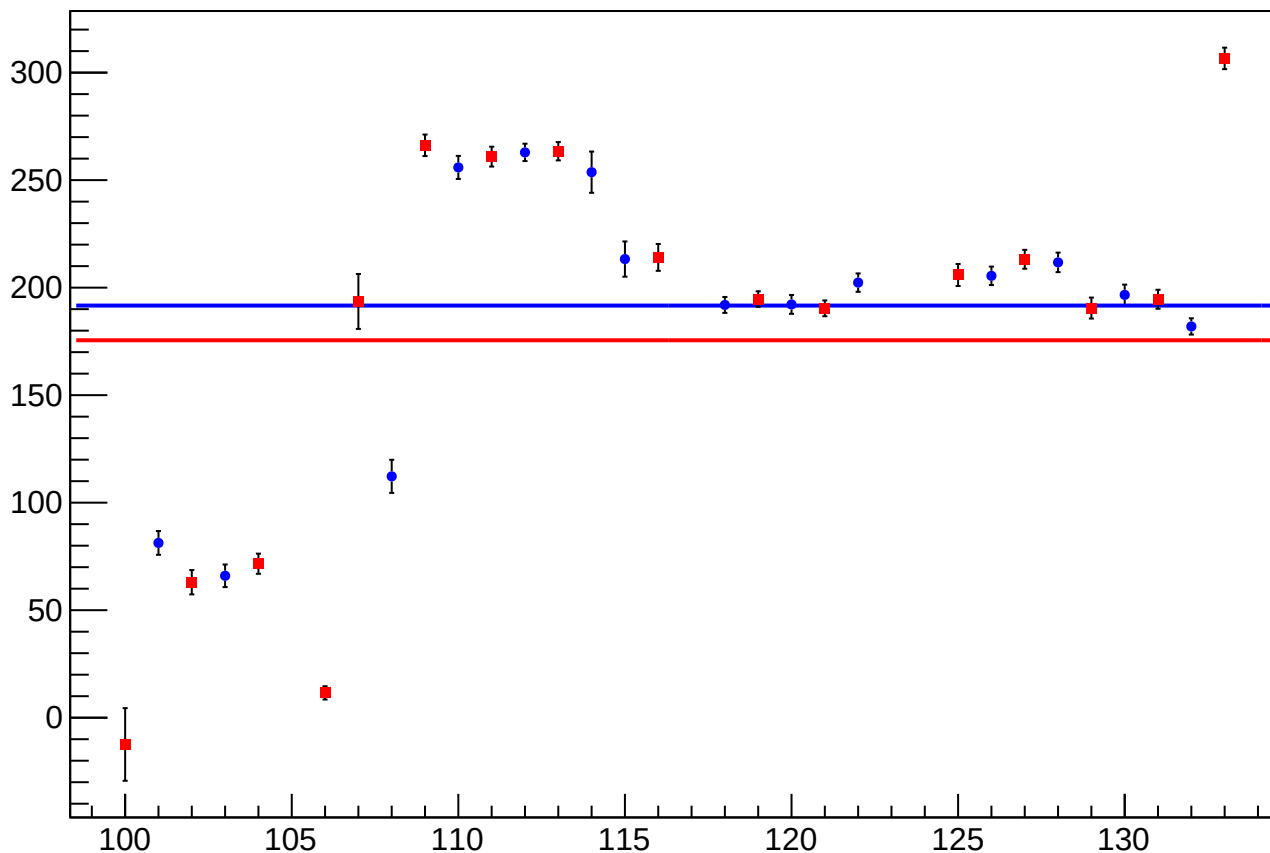
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.237 $\pm$ 0.767  $\chi^2$ /NDF: 205.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 191.663+/-1.287  $\chi^2/\text{NDF}$ : 1624.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 175.532+/-1.168  $\chi^2/\text{NDF}$ : 5838.2/15

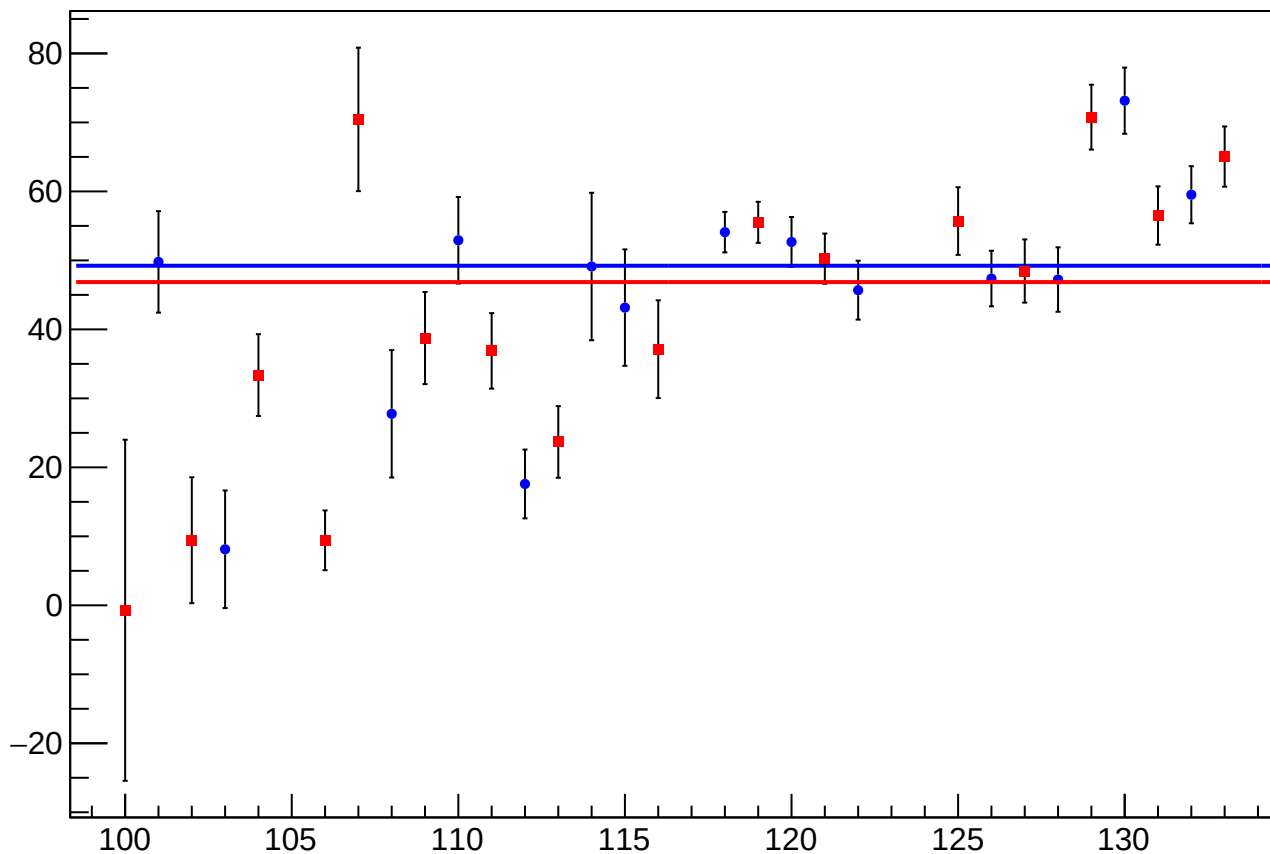
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 182.818+/-0.865  $\chi^2/\text{NDF}$ : 7548.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 49.223 $\pm$ 1.303  $\chi^2$ /NDF: 105.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 46.858 $\pm$ 1.241  $\chi^2$ /NDF: 193.3/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

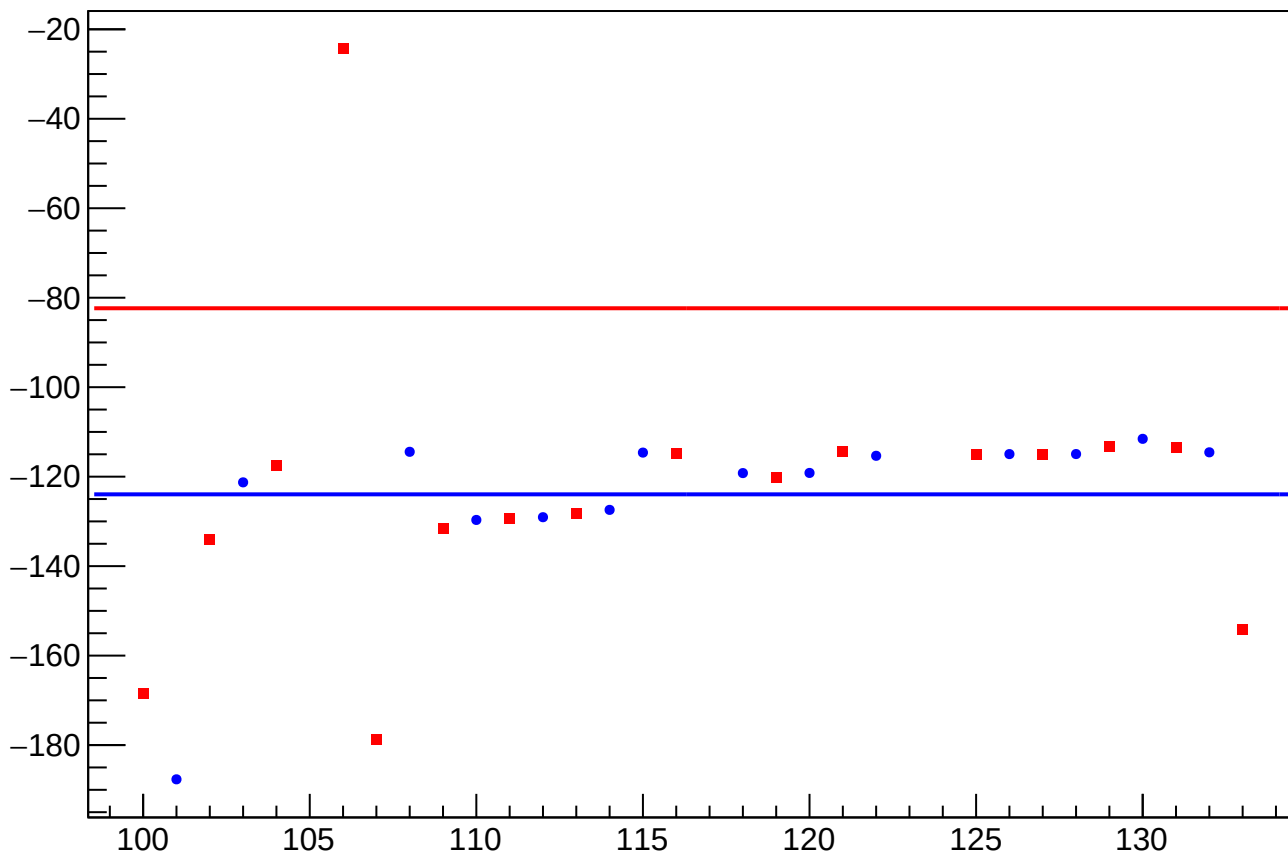
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.983 $\pm$ 0.899  $\chi^2$ /NDF: 300.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_usl\_atl2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -123.951+/-0.091  $\chi^2/\text{NDF}$ : 43341.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -82.357+/-0.067  $\chi^2/\text{NDF}$ : 593665.0/15

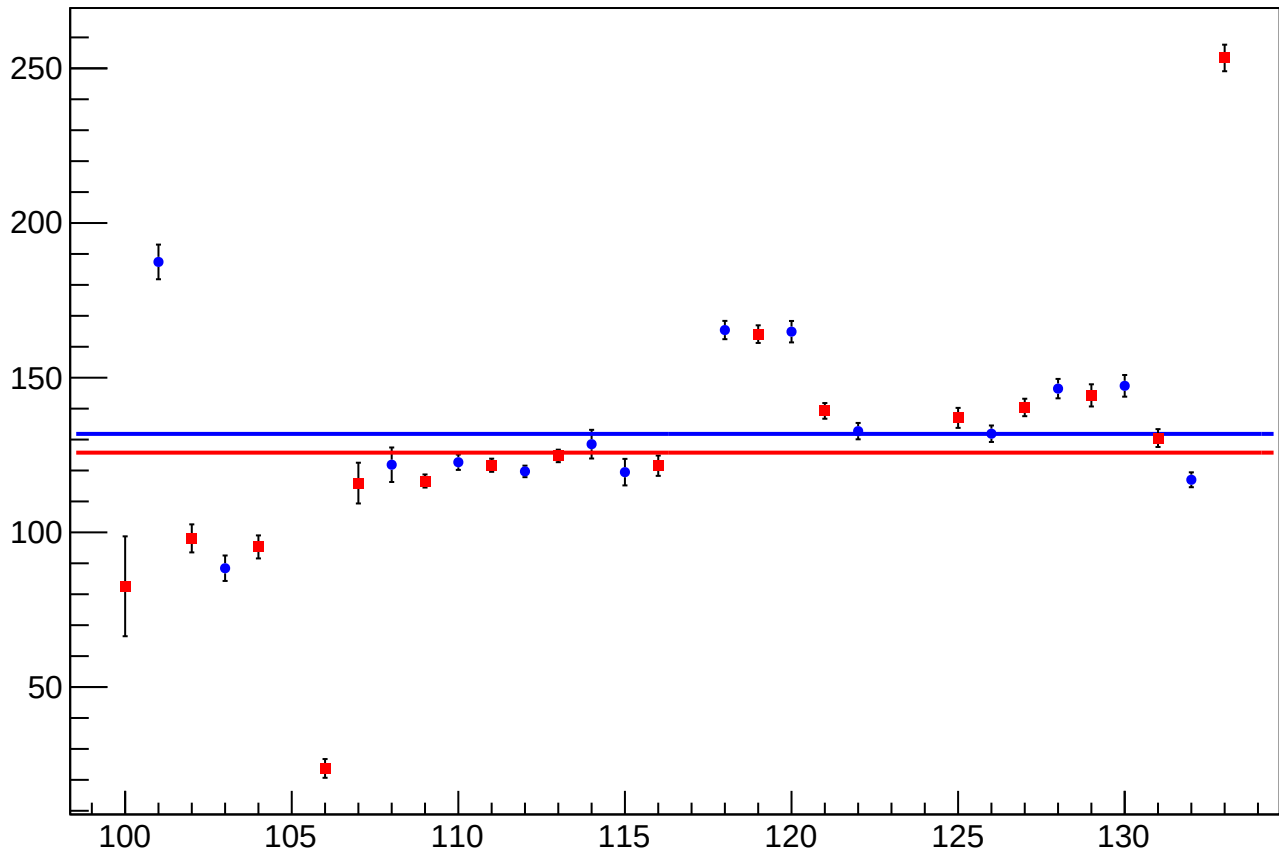
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -96.953+/-0.054  $\chi^2/\text{NDF}$ : 773508.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usl\_atl2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 131.834 $\pm$ 0.813  $\chi^2$ /NDF: 577.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.772 $\pm$ 0.747  $\chi^2$ /NDF: 2431.4/15

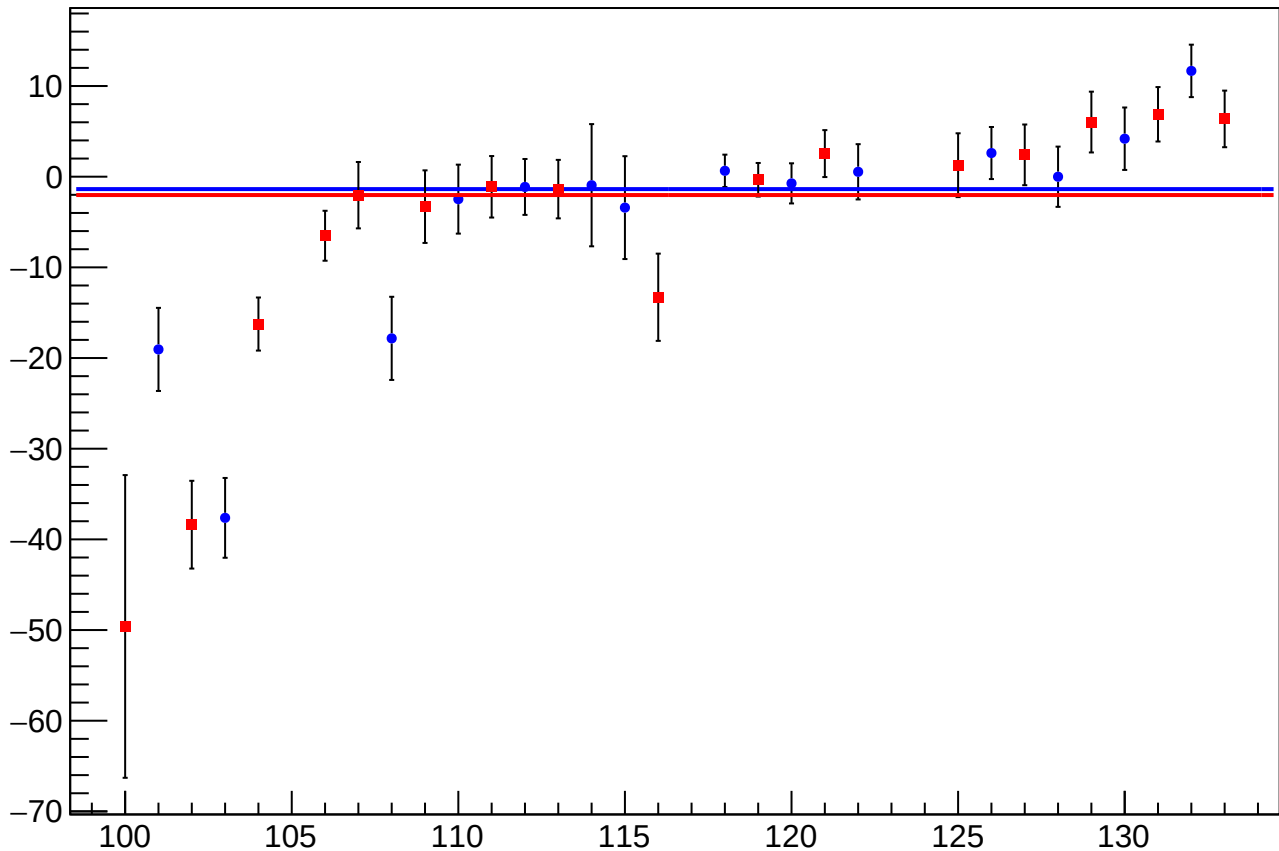
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 128.546 $\pm$ 0.550  $\chi^2$ /NDF: 3038.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usl\_atl2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-1.370 \pm 0.840$   $\chi^2/\text{NDF}$ : 122.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.025 \pm 0.798$   $\chi^2/\text{NDF}$ : 124.9/15

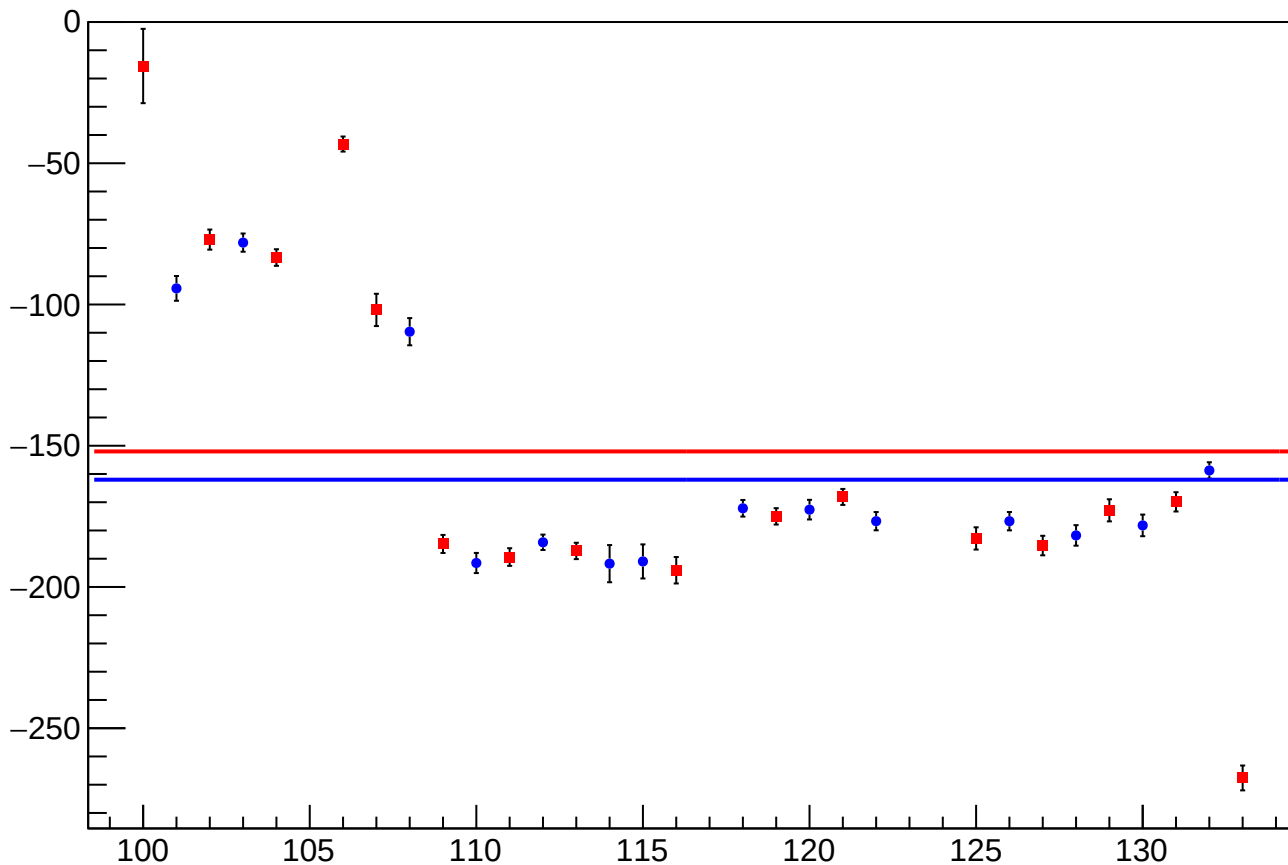
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.714 \pm 0.579$   $\chi^2/\text{NDF}$ : 247.9/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usl\_atl2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -162.022 $\pm$ 0.951  $\chi^2$ /NDF: 1321.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -152.017 $\pm$ 0.866  $\chi^2$ /NDF: 4316.9/15

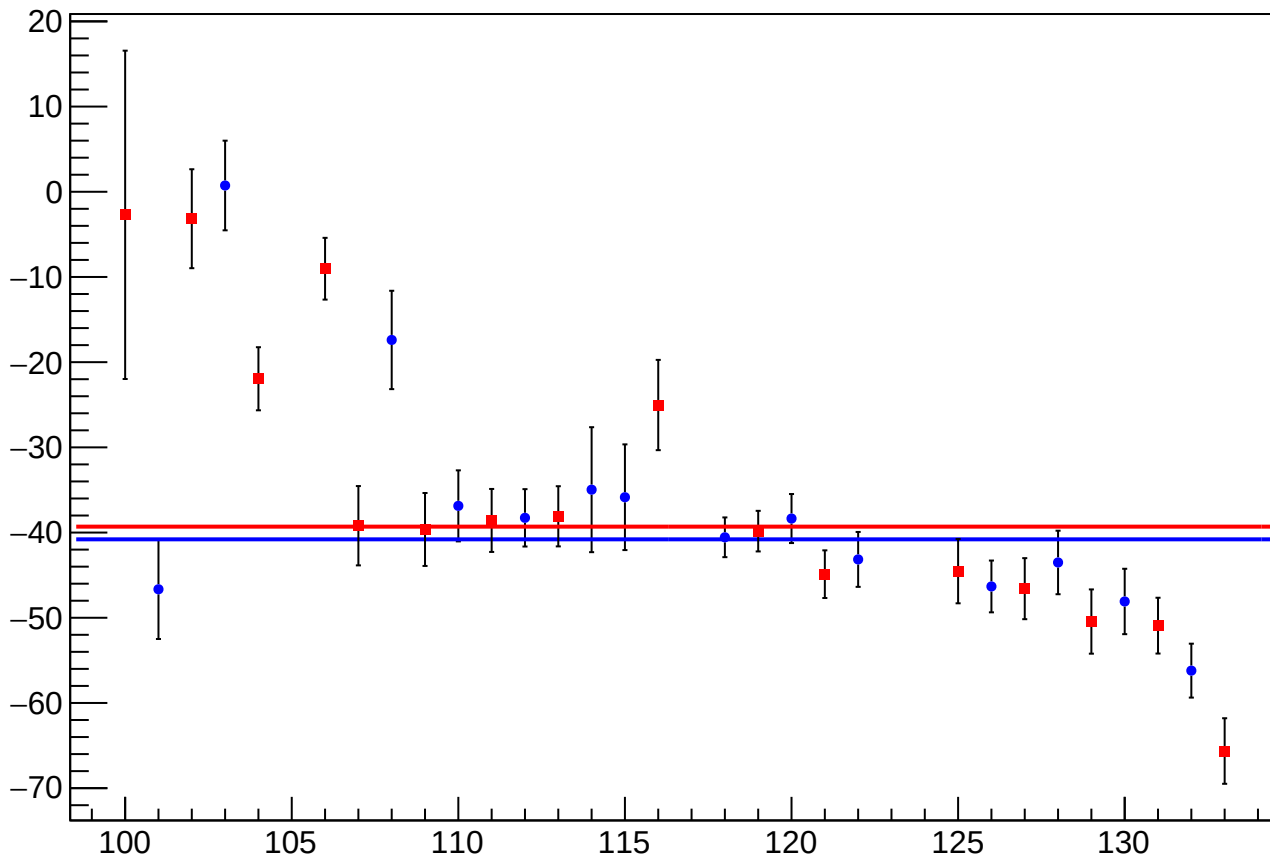
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -156.556 $\pm$ 0.640  $\chi^2$ /NDF: 5698.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usl\_atl2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-40.795 \pm 0.983$   $\chi^2/\text{NDF}: 114.9/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-39.304 \pm 0.931$   $\chi^2/\text{NDF}: 219.7/15$

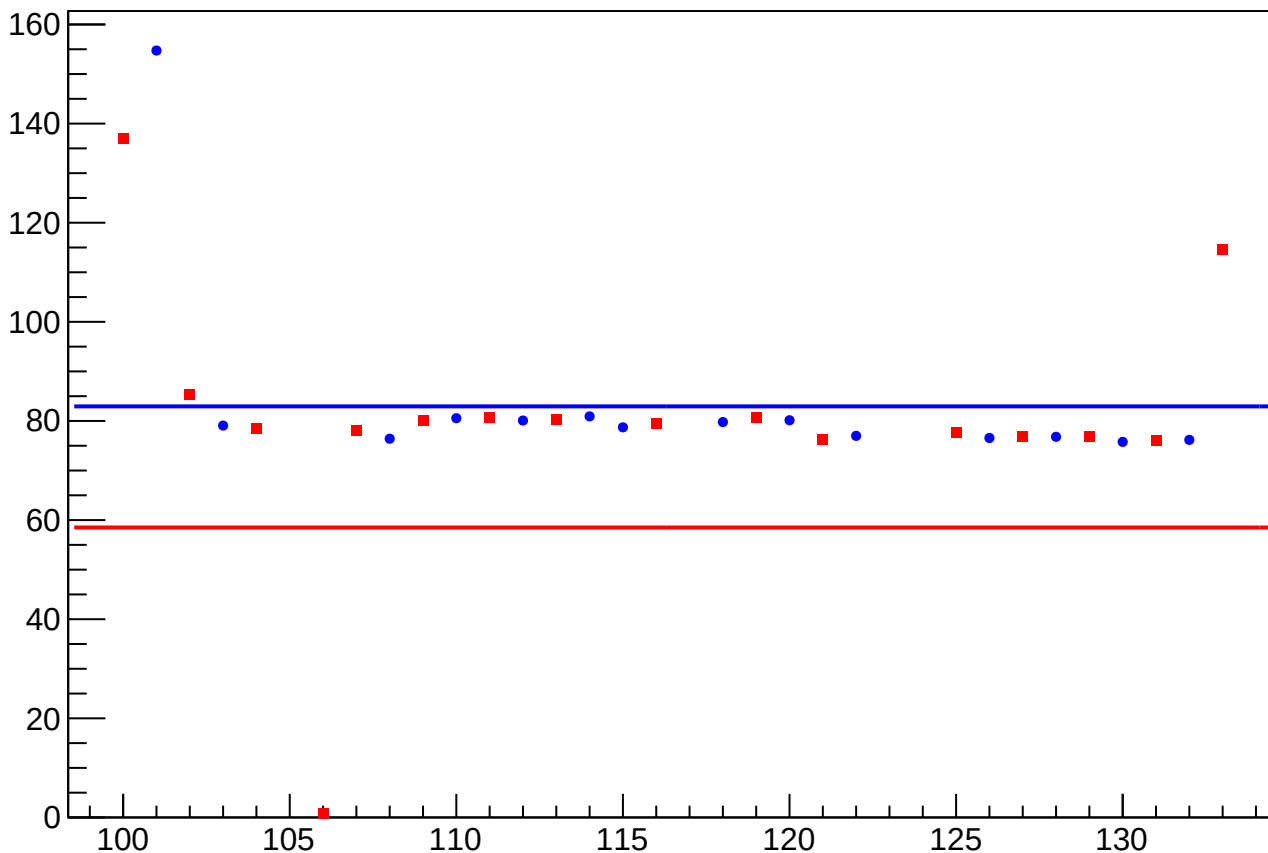
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-40.009 \pm 0.676$   $\chi^2/\text{NDF}: 335.8/29$

- 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: 82.941+/-0.065  $\chi^2/\text{NDF}$ : 80634.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 58.505+/-0.051  $\chi^2/\text{NDF}$ : 520561.1/15

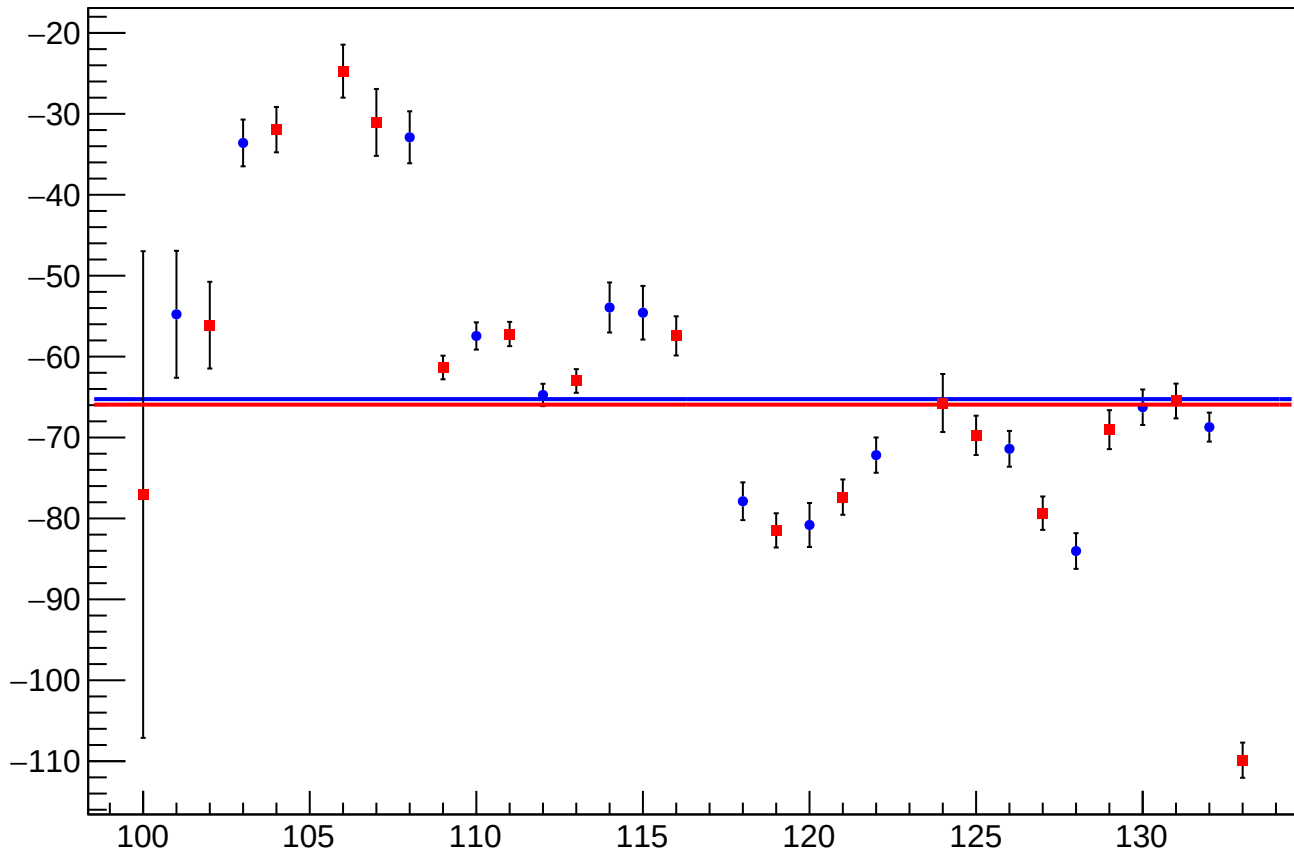
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 67.991+/-0.040  $\chi^2/\text{NDF}$ : 688679.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr1\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -65.253+/-0.601  $\chi^2/\text{NDF}$ : 424.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -65.935+/-0.544  $\chi^2/\text{NDF}$ : 976.4/16

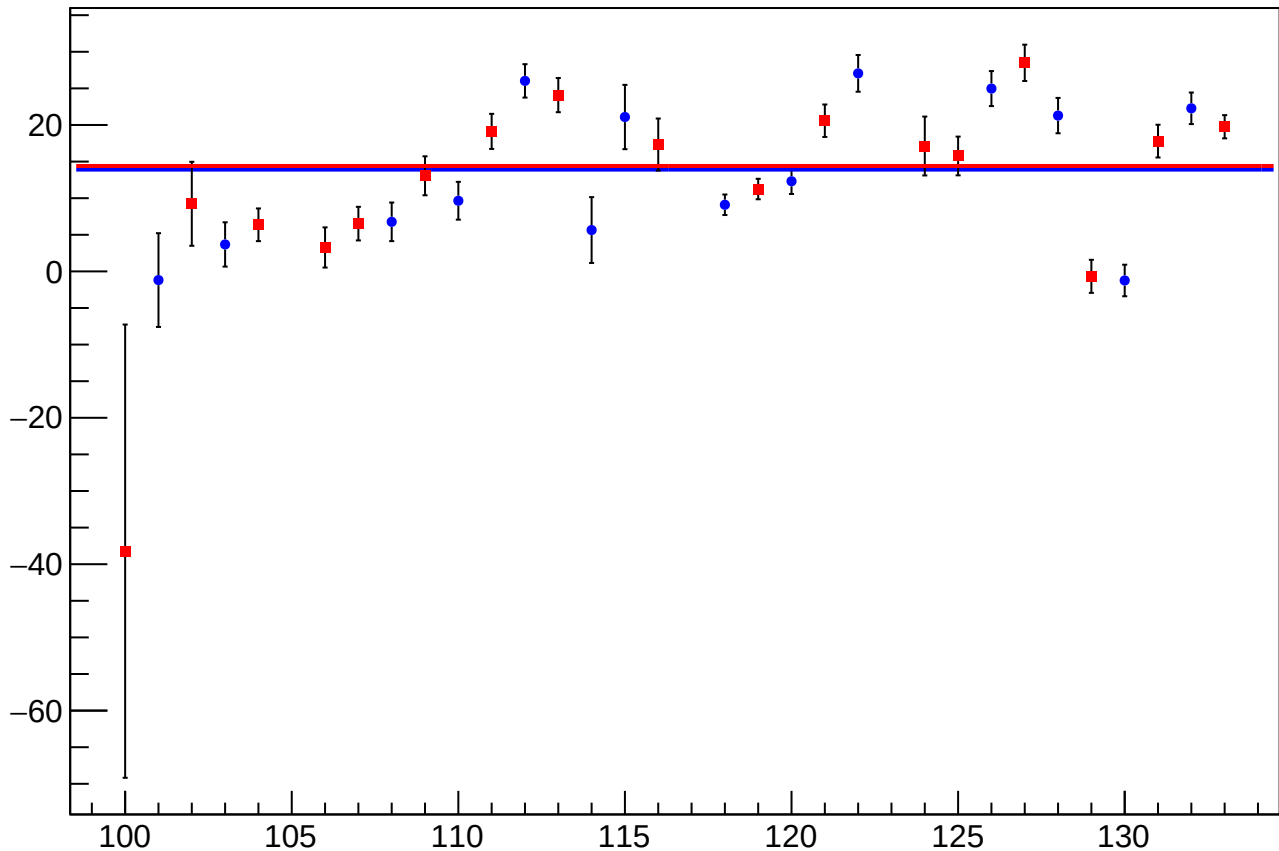
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -65.628+/-0.403  $\chi^2/\text{NDF}$ : 1401.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usr\_atr1\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 13.907 $\pm$ 0.633  $\chi^2$ /NDF: 196.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.401 $\pm$ 0.577  $\chi^2$ /NDF: 171.0/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

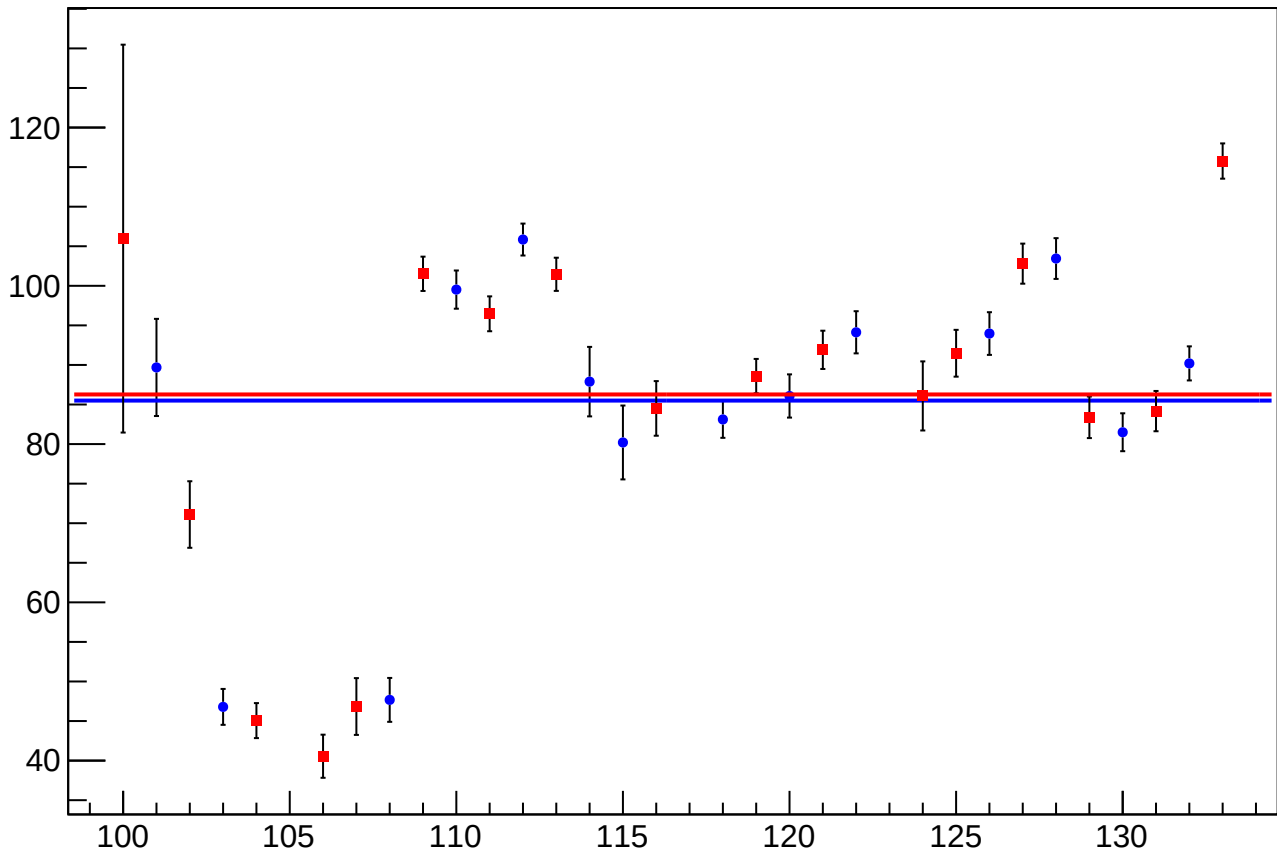
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 14.177 $\pm$ 0.426  $\chi^2$ /NDF: 367.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_usr\_atr1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 85.497 $\pm$ 0.706  $\chi^2$ /NDF: 692.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 86.270 $\pm$ 0.644  $\chi^2$ /NDF: 1116.0/16

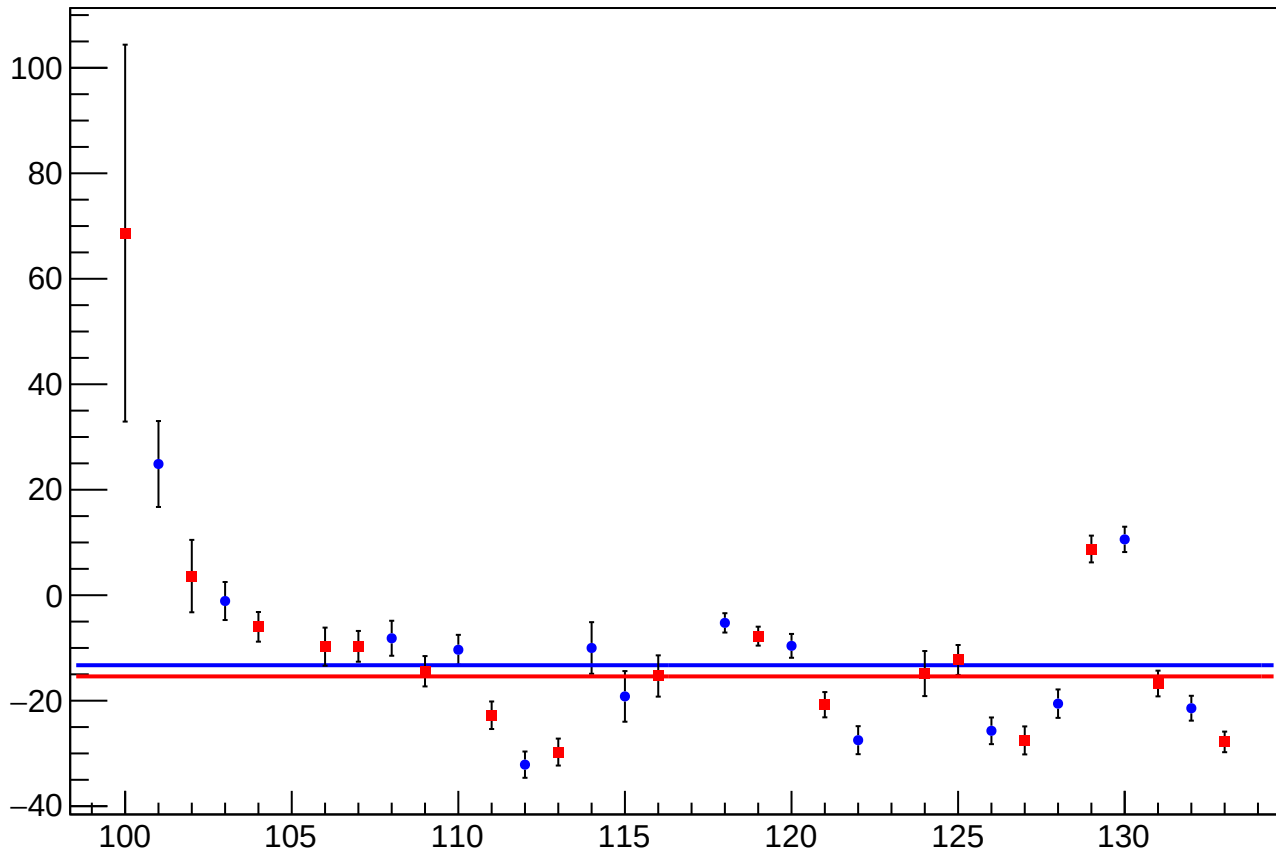
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 85.919 $\pm$ 0.476  $\chi^2$ /NDF: 1808.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr1\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -13.274 $\pm$ 0.738  $\chi^2$ /NDF: 288.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -15.394 $\pm$ 0.671  $\chi^2$ /NDF: 246.7/16

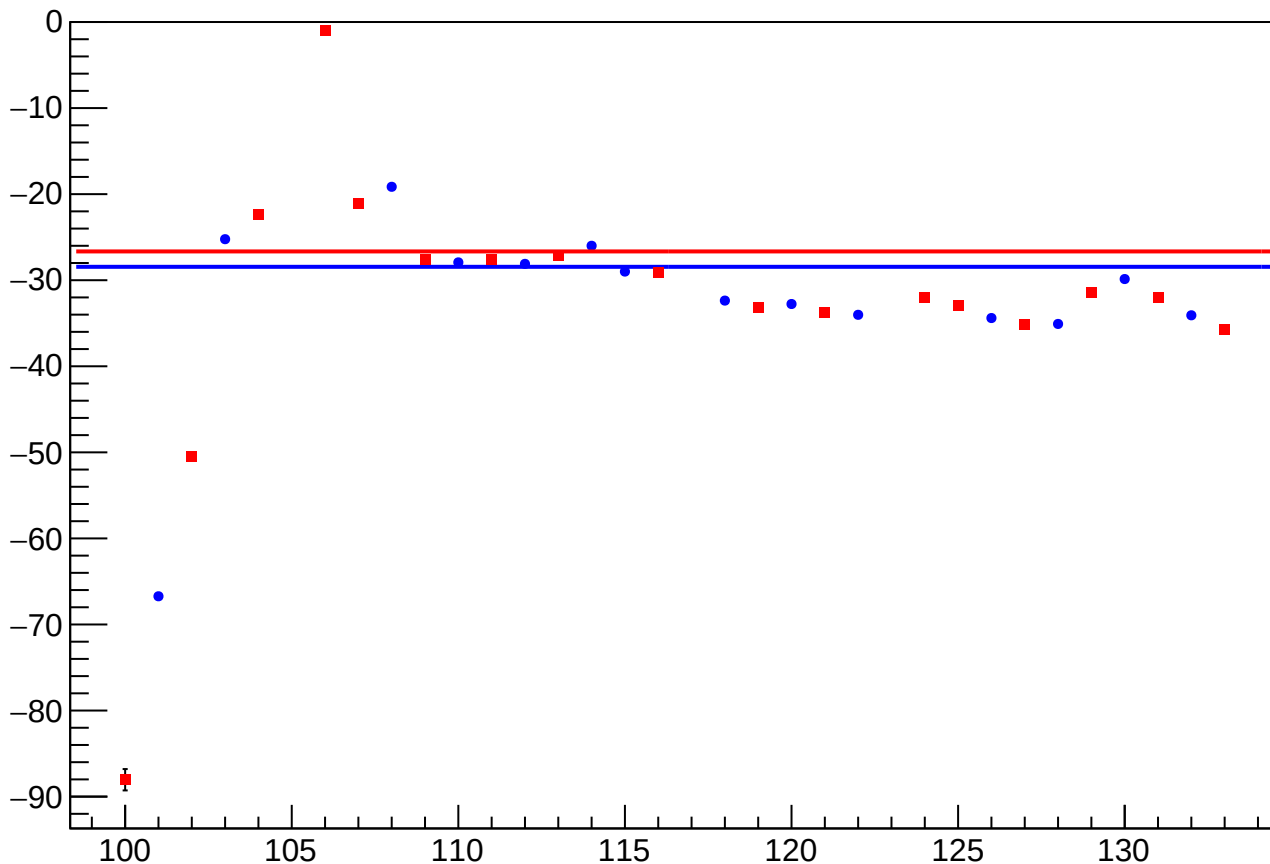
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.434 $\pm$ 0.497  $\chi^2$ /NDF: 539.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr1\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-28.443 \pm 0.047$   $\chi^2/\text{NDF}$ : 23528.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-26.655 \pm 0.042$   $\chi^2/\text{NDF}$ : 74210.4/16

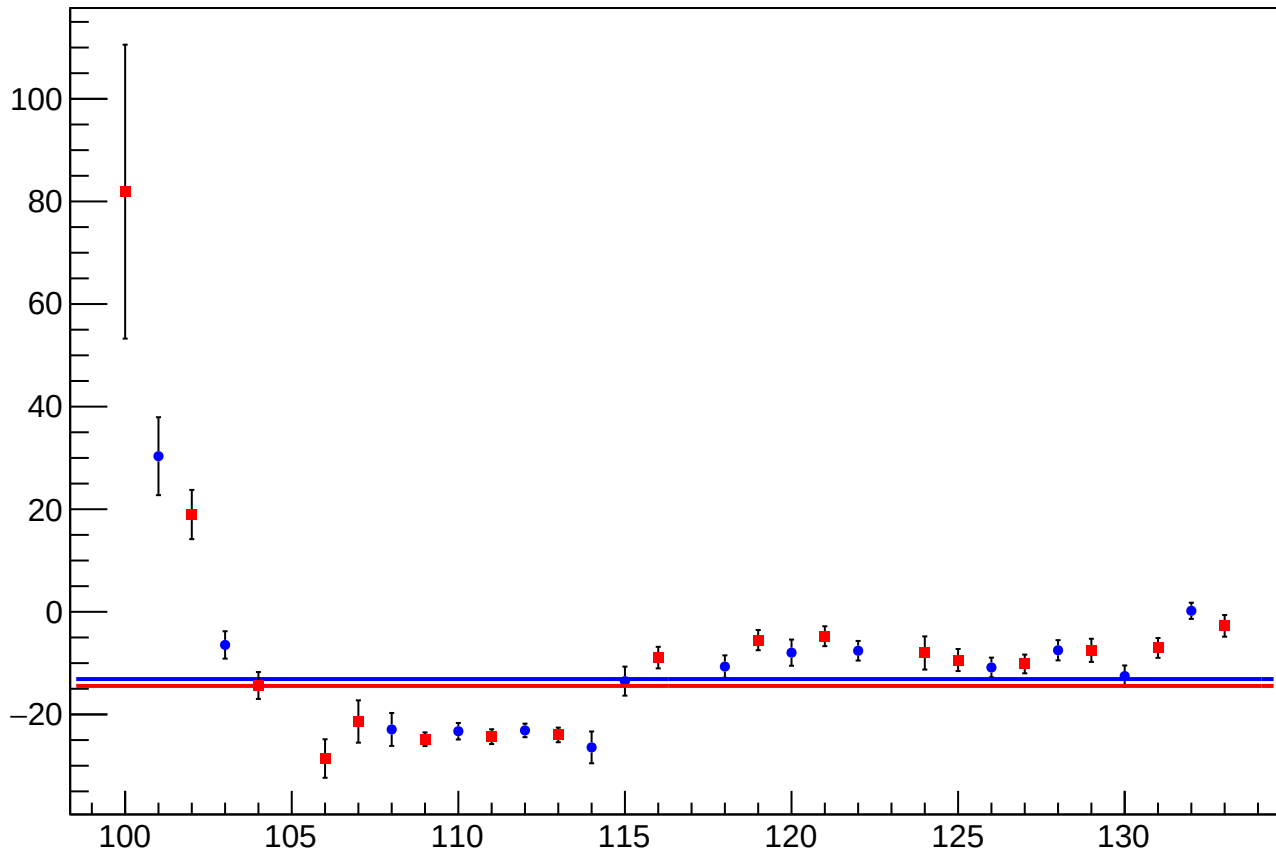
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-27.461 \pm 0.031$   $\chi^2/\text{NDF}$ : 98540.8/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr1\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-13.108 \pm 0.555$   $\chi^2/\text{NDF}$ : 258.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-14.443 \pm 0.506$   $\chi^2/\text{NDF}$ : 351.8/16

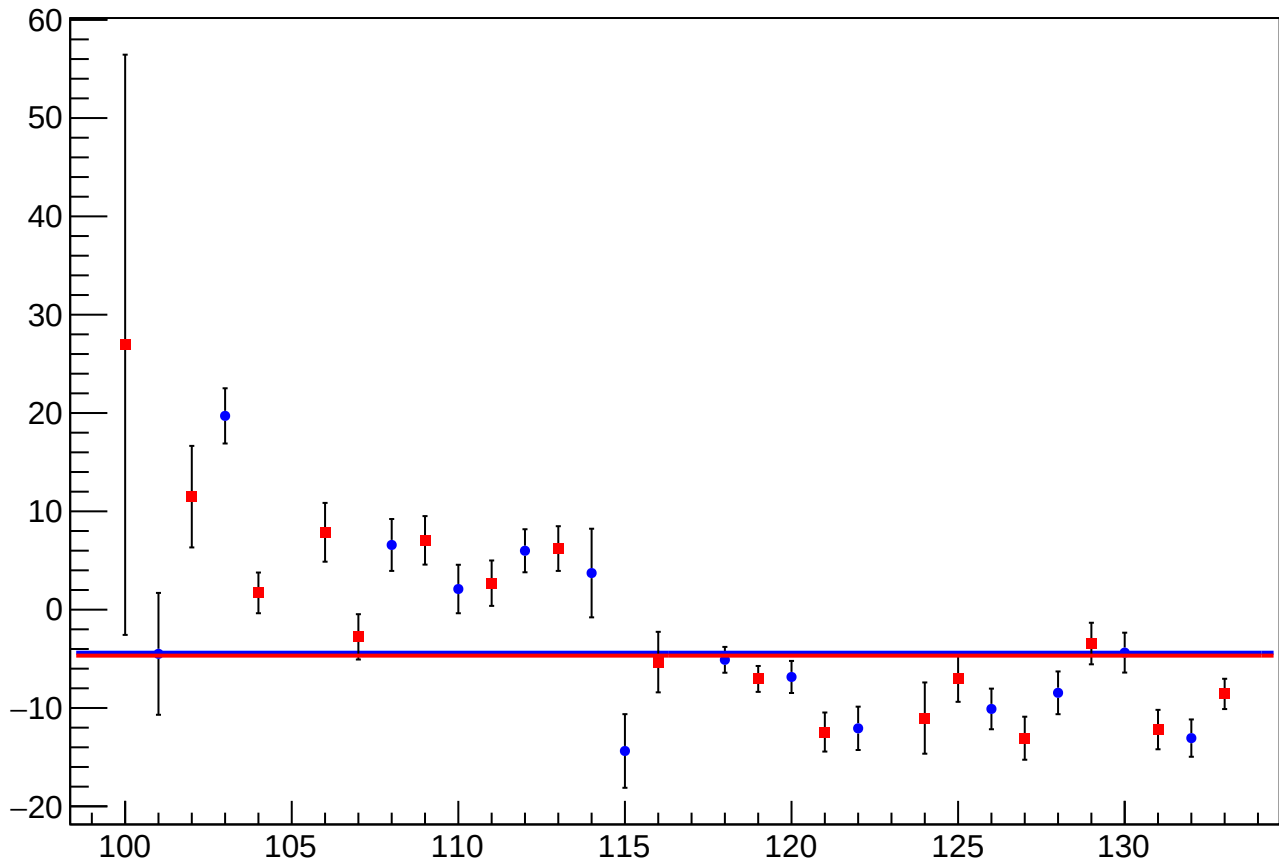
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-13.837 \pm 0.374$   $\chi^2/\text{NDF}$ : 613.2/30

- 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: -4.378+/-0.585  $\chi^2/\text{NDF}$ : 177.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.676+/-0.541  $\chi^2/\text{NDF}$ : 152.7/16

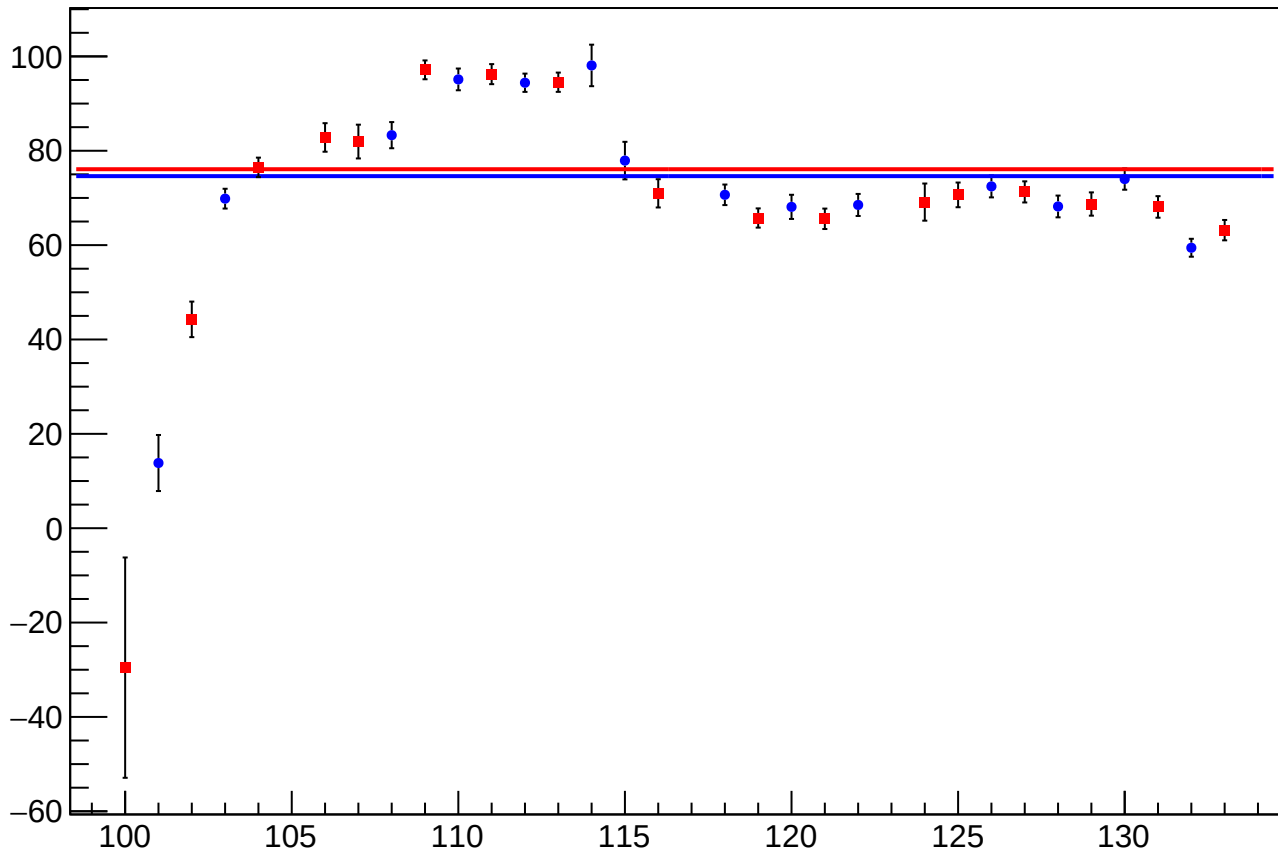
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.539+/-0.397  $\chi^2/\text{NDF}$ : 330.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 74.620 $\pm$ 0.653  $\chi^2$ /NDF: 421.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 76.087 $\pm$ 0.603  $\chi^2$ /NDF: 503.8/16

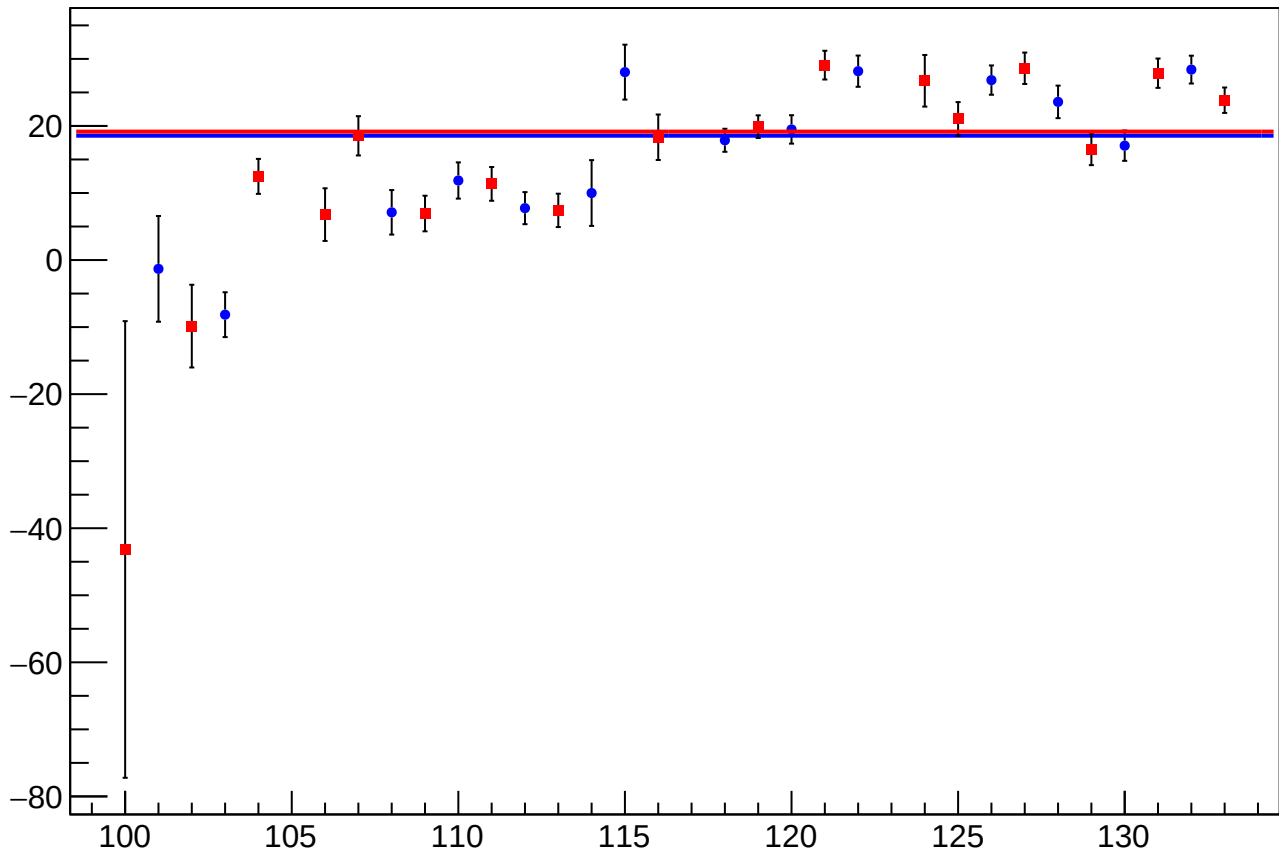
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 75.412 $\pm$ 0.443  $\chi^2$ /NDF: 928.2/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_atr1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 18.546 $\pm$ 0.680  $\chi^2$ /NDF: 175.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.158 $\pm$ 0.627  $\chi^2$ /NDF: 160.6/16

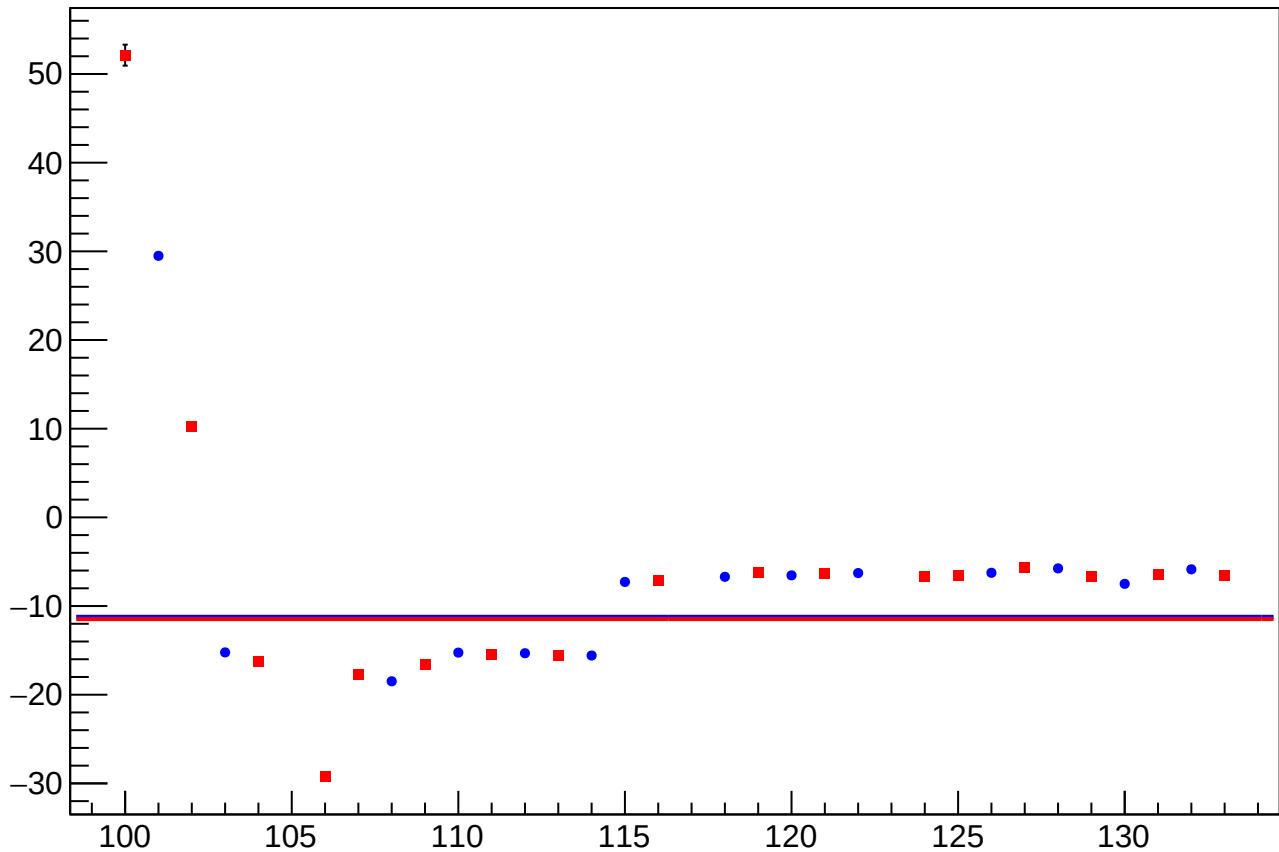
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.877 $\pm$ 0.461  $\chi^2$ /NDF: 337.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usr\_atr1\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -11.214 $\pm$ 0.044  $\chi^2$ /NDF: 26272.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -11.471 $\pm$ 0.040  $\chi^2$ /NDF: 48499.5/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

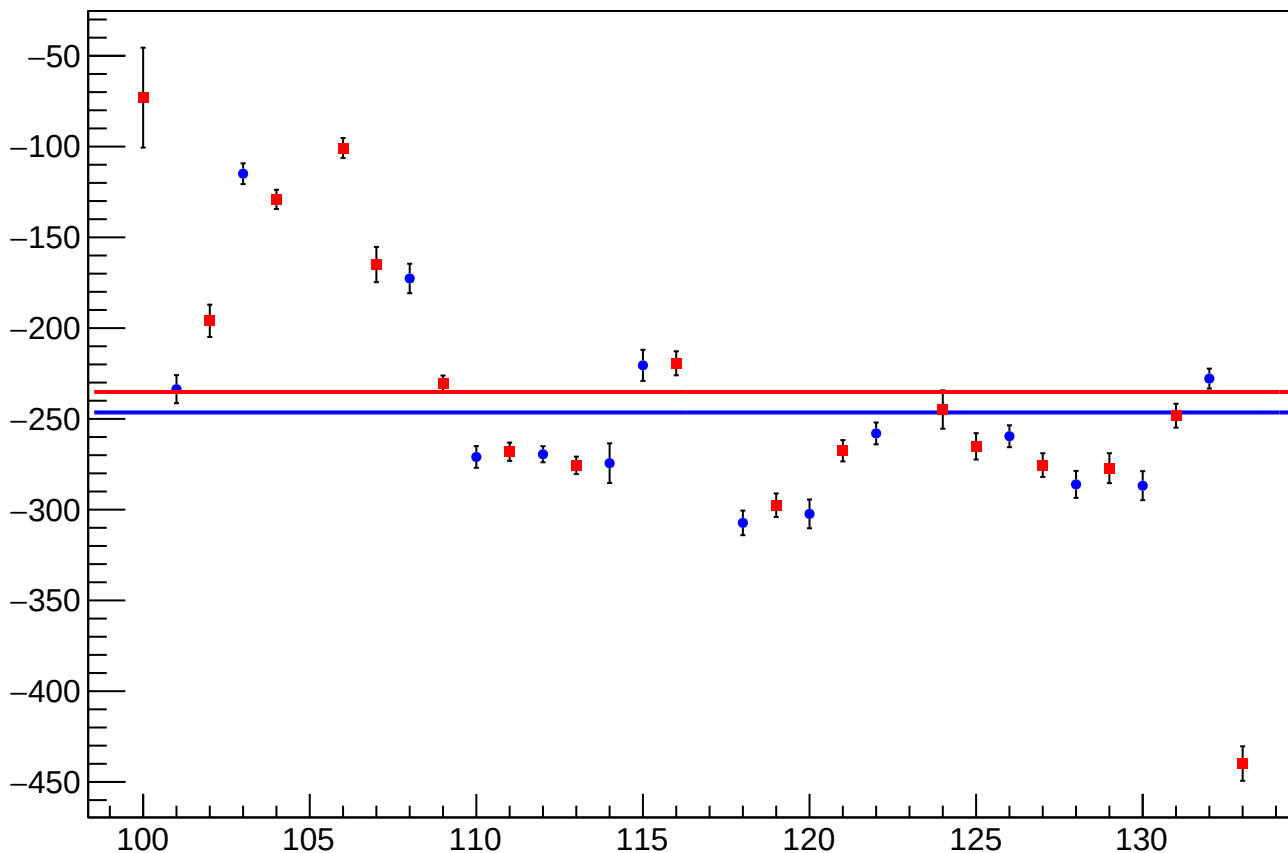
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -11.352 $\pm$ 0.030  $\chi^2$ /NDF: 74790.4/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_usr\_atr2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -246.455+/-1.758  $\chi^2$ /NDF: 879.9/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -235.169+/-1.576  $\chi^2$ /NDF: 1895.7/16

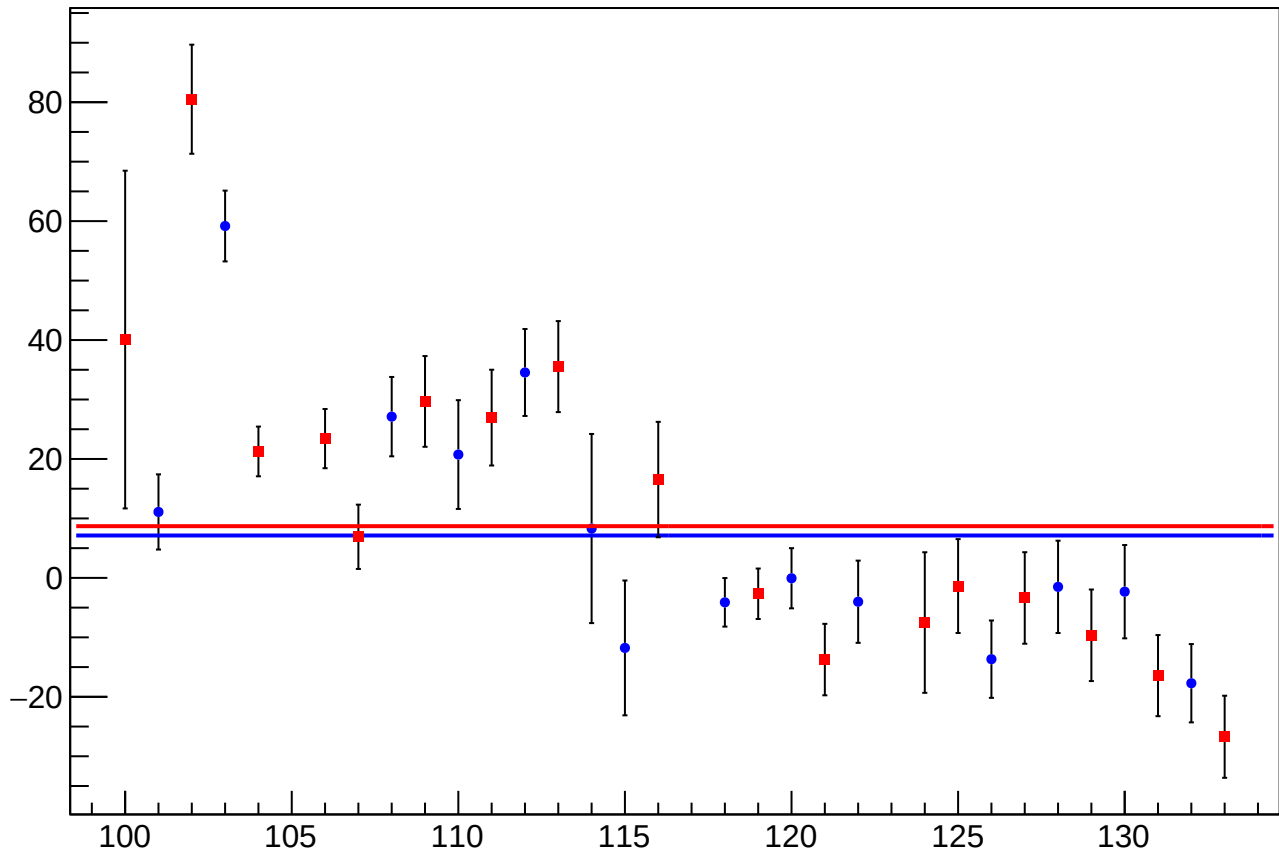
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -240.197+/-1.174  $\chi^2$ /NDF: 2798.5/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 7.130+/-1.775  $\chi^2/\text{NDF}$ : 144.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.697+/-1.606  $\chi^2/\text{NDF}$ : 178.7/16

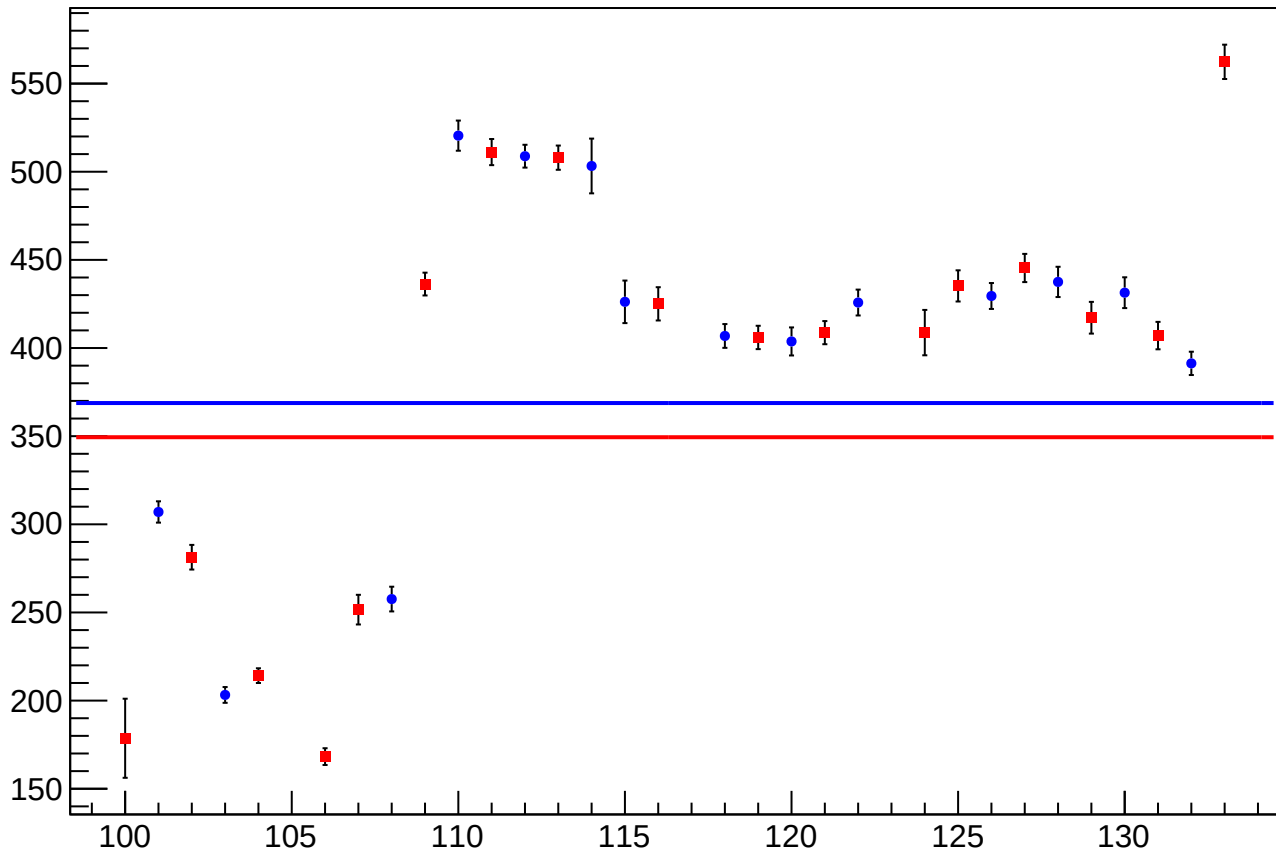
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.992+/-1.191  $\chi^2/\text{NDF}$ : 323.3/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usr\_atr2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 368.791+/-1.923  $\chi^2/\text{NDF}$ : 2907.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 349.403+/-1.734  $\chi^2/\text{NDF}$ : 5046.2/16

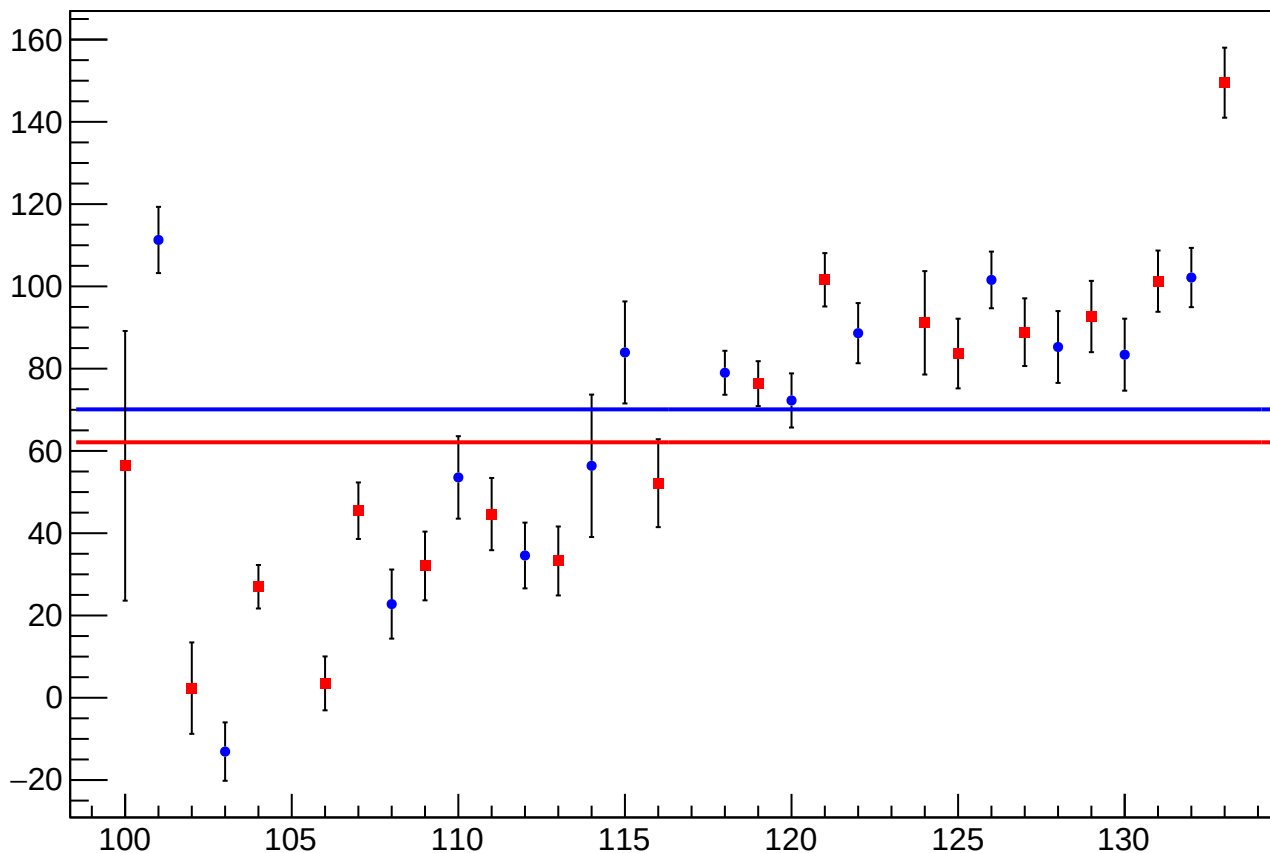
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 358.099+/-1.288  $\chi^2/\text{NDF}$ : 8010.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_usr\_atr2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 70.105+/-2.093  $\chi^2$ /NDF: 274.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 62.101+/-1.900  $\chi^2$ /NDF: 400.4/16

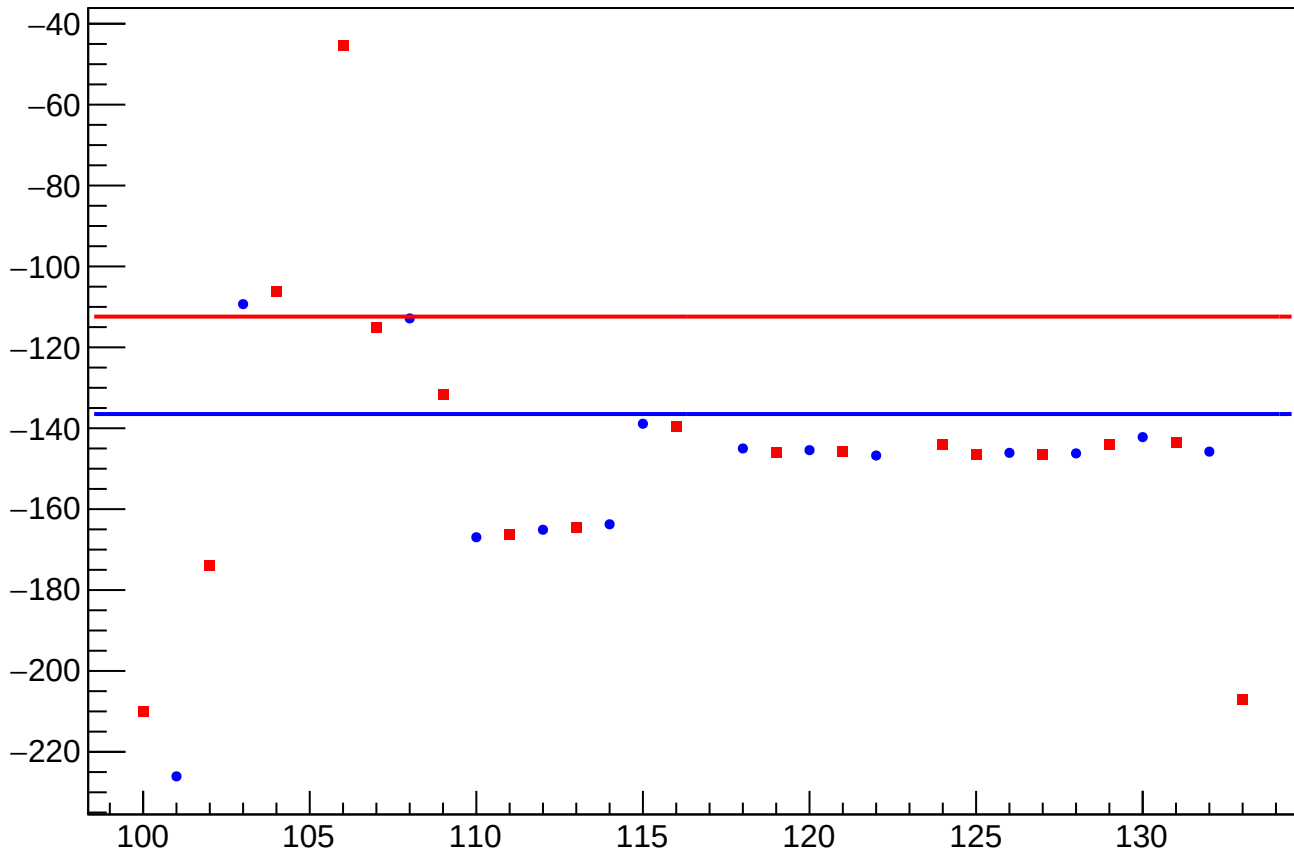
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 65.717+/-1.407  $\chi^2$ /NDF: 683.2/30

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_usr\_atr2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -136.487+/-0.115  $\chi^2/\text{NDF}$ : 96600.3/13

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

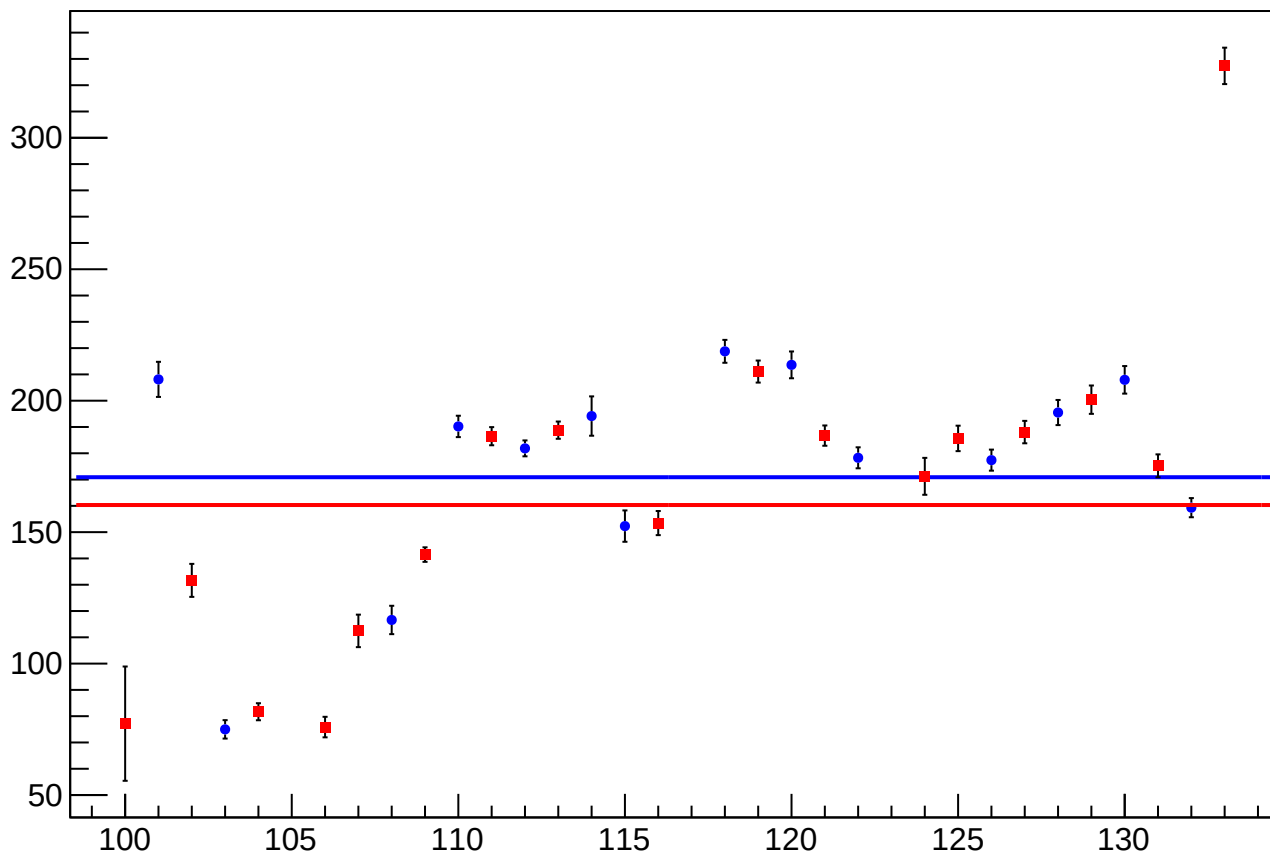
Right Out: -112.395+/-0.097  $\chi^2/\text{NDF}$ : 233465.0/16

All: -122.445+/-0.074  $\chi^2/\text{NDF}$ : 355653.3/30

- 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

# reg\_asym\_usr\_atr2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 170.893+/-1.174  $\chi^2/\text{NDF}$ : 1221.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 160.319+/-1.043  $\chi^2/\text{NDF}$ : 2248.0/16

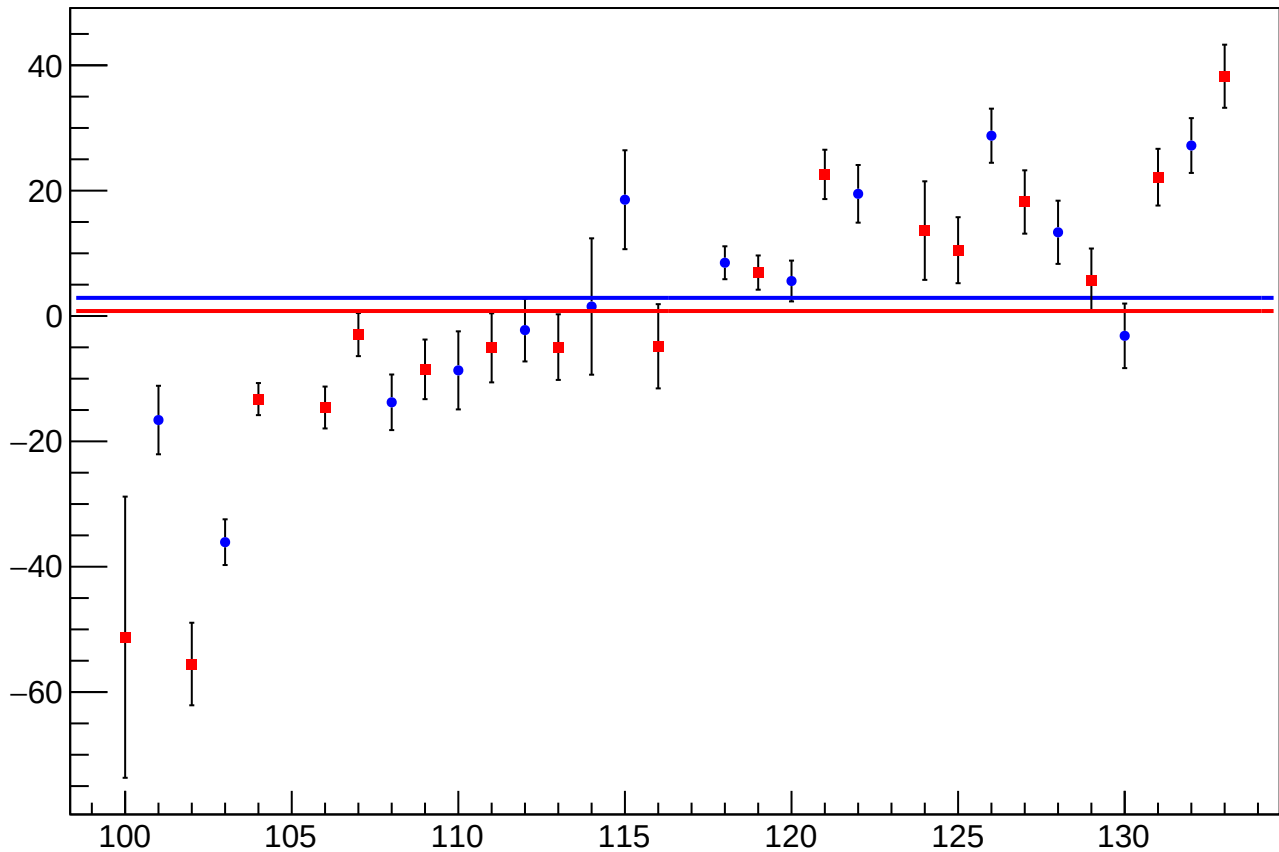
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 164.983+/-0.779  $\chi^2/\text{NDF}$ : 3514.5/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 2.893+/-1.179  $\chi^2/\text{NDF}$ : 240.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.795+/-1.051  $\chi^2/\text{NDF}$ : 270.2/16

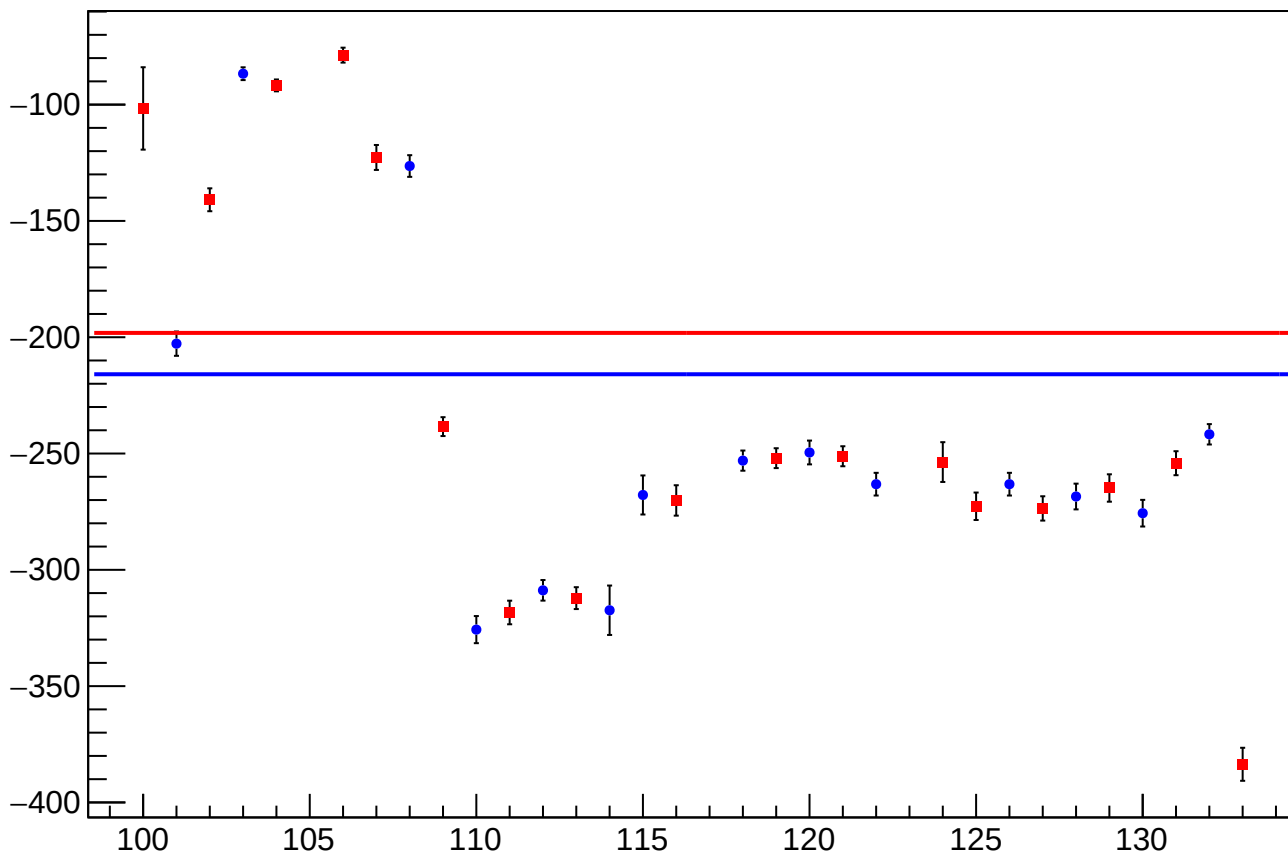
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.724+/-0.784  $\chi^2/\text{NDF}$ : 512.2/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_atr2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-215.918 \pm 1.281$   $\chi^2/\text{NDF}$ : 4047.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-198.144 \pm 1.138$   $\chi^2/\text{NDF}$ : 6500.2/16

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

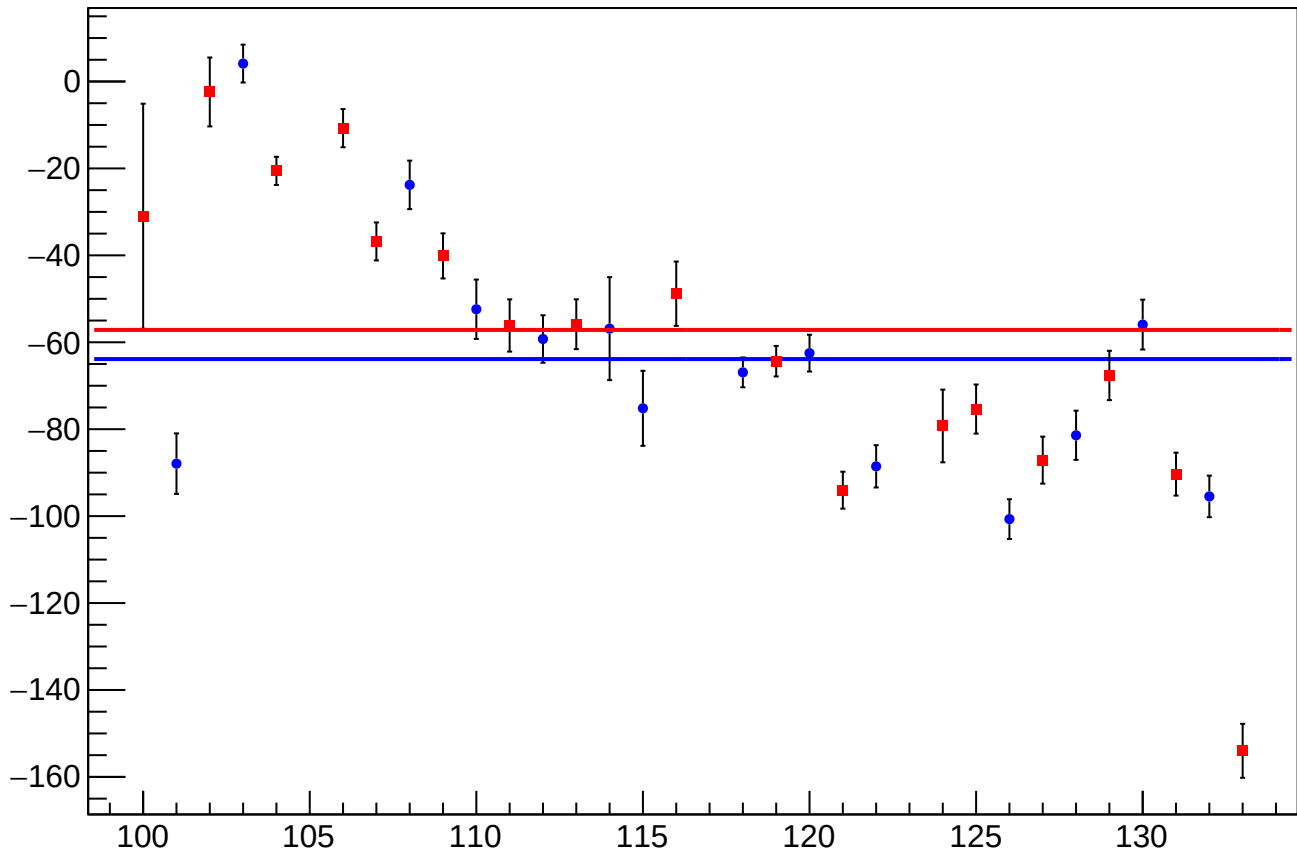
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-205.983 \pm 0.851$   $\chi^2/\text{NDF}$ : 10655.7/30

- 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:  $-63.864 \pm 1.391$   $\chi^2/\text{NDF}$ : 459.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-57.159 \pm 1.245$   $\chi^2/\text{NDF}$ : 741.6/16

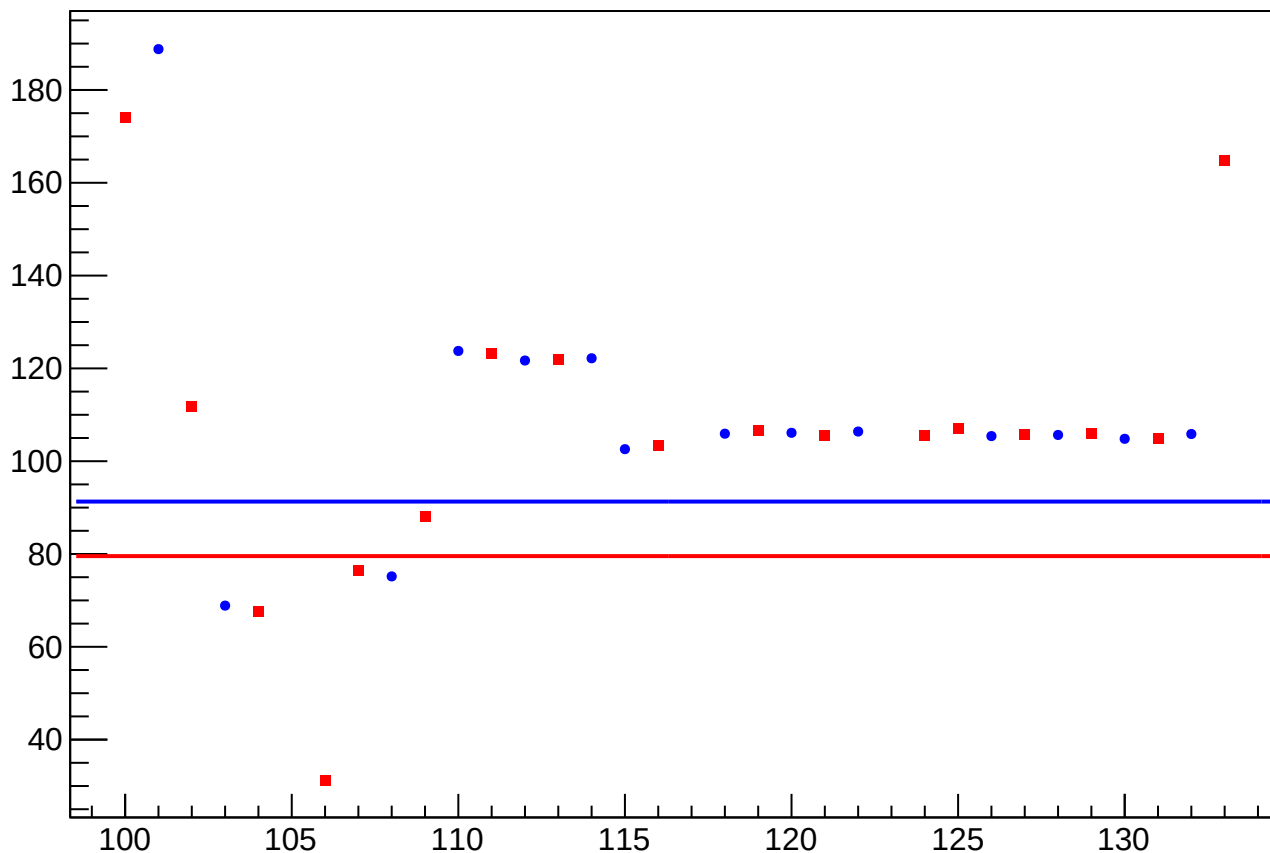
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-60.143 \pm 0.928$   $\chi^2/\text{NDF}$ : 1214.2/30

- 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: 91.300+/-0.075  $\chi^2/\text{NDF}$ : 166463.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 79.546+/-0.066  $\chi^2/\text{NDF}$ : 232411.8/16

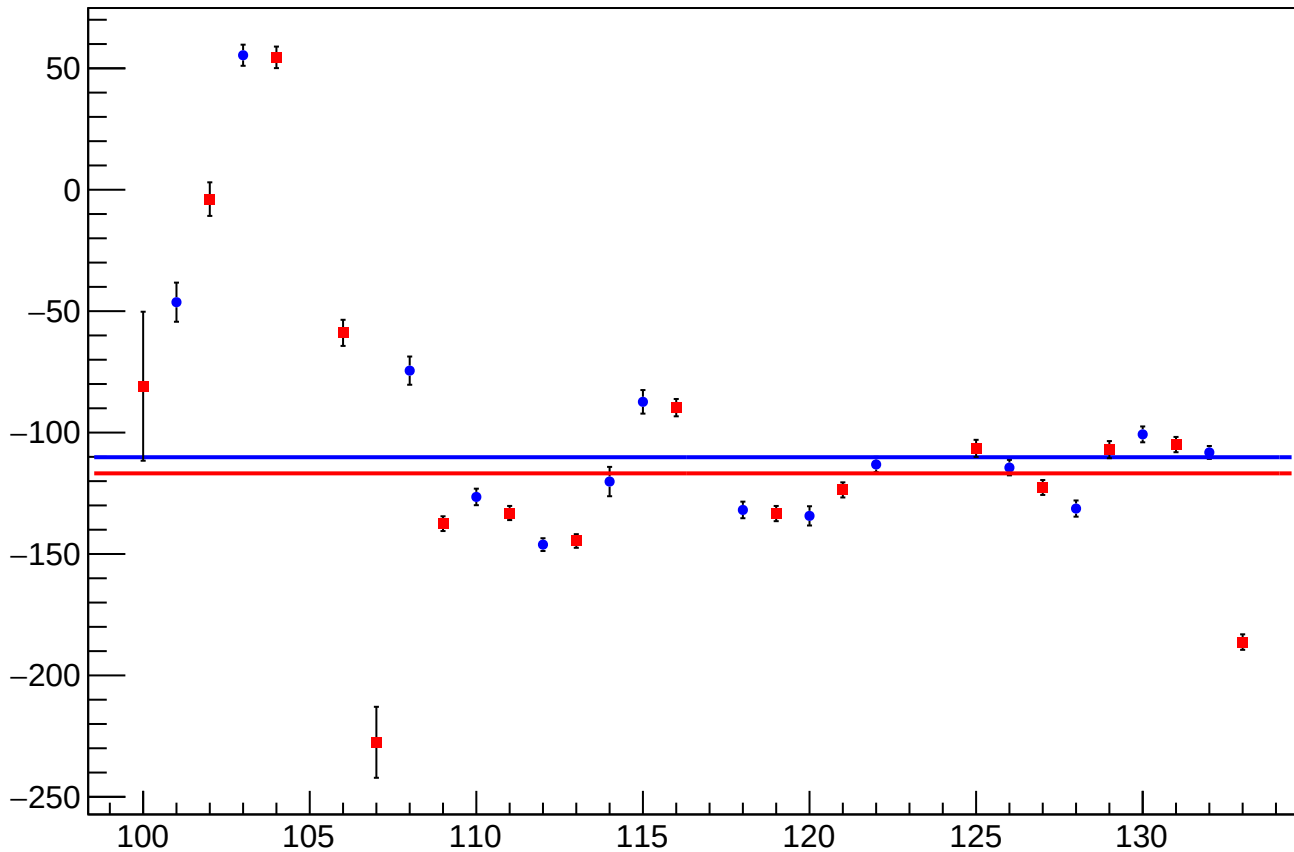
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 84.637+/-0.050  $\chi^2/\text{NDF}$ : 412624.7/30

- 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:  $-110.147 \pm 0.965$   $\chi^2/\text{NDF}$ : 1912.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-116.794 \pm 0.907$   $\chi^2/\text{NDF}$ : 2708.4/15

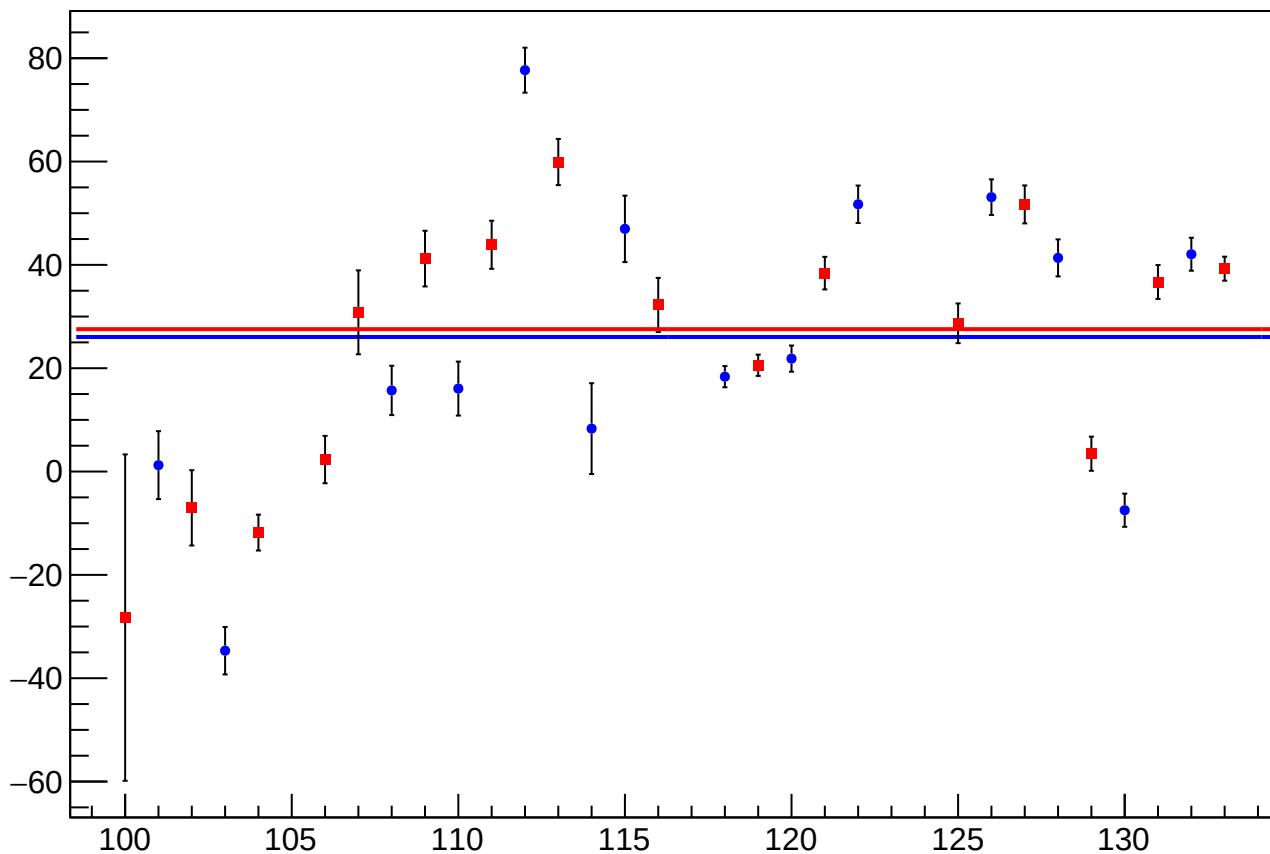
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-113.676 \pm 0.661$   $\chi^2/\text{NDF}$ : 4645.9/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 26.043+/-0.968  $\chi^2/\text{NDF}$ : 633.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27.560+/-0.920  $\chi^2/\text{NDF}$ : 409.6/15

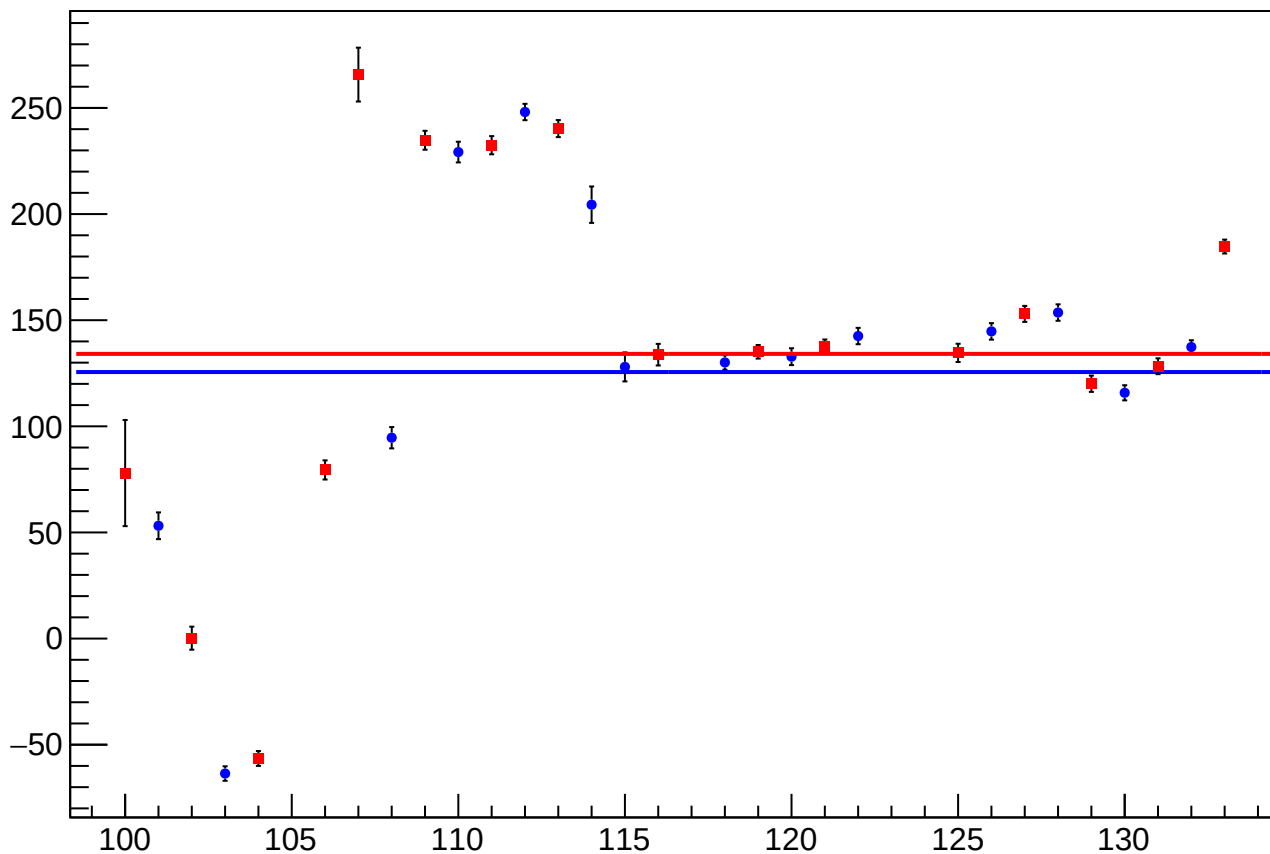
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 26.840+/-0.667  $\chi^2/\text{NDF}$ : 1044.7/29

- 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: 125.570 $\pm$ 1.103  $\chi^2$ /NDF: 4906.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 134.129 $\pm$ 1.044  $\chi^2$ /NDF: 5855.8/15

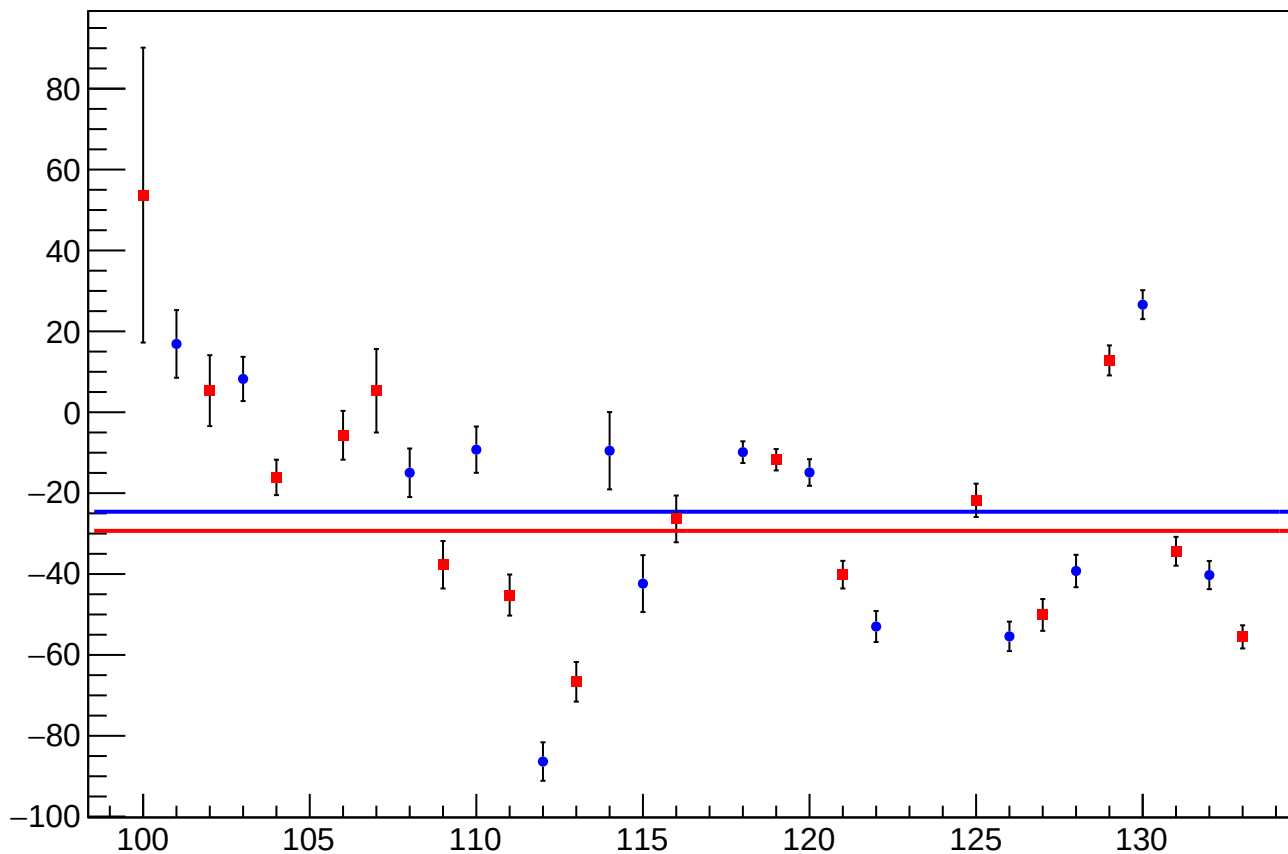
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 130.085 $\pm$ 0.758  $\chi^2$ /NDF: 10793.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -24.595+/-1.133  $\chi^2/\text{NDF}$ : 651.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -29.327+/-1.073  $\chi^2/\text{NDF}$ : 427.2/15

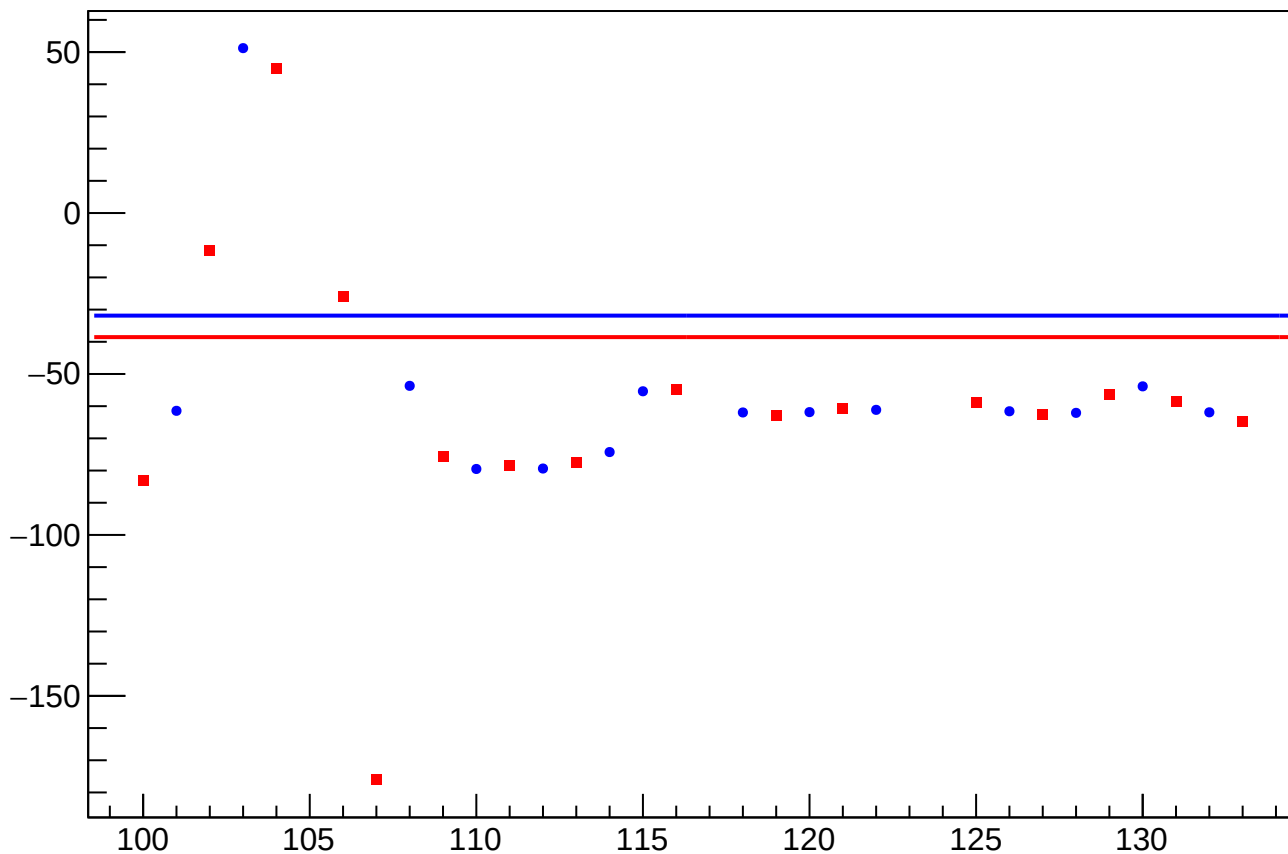
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -27.090+/-0.779  $\chi^2/\text{NDF}$ : 1087.8/29

- 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: -31.869+/-0.073  $\chi^2/\text{NDF}$ : 472641.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -38.546+/-0.070  $\chi^2/\text{NDF}$ : 430092.7/15

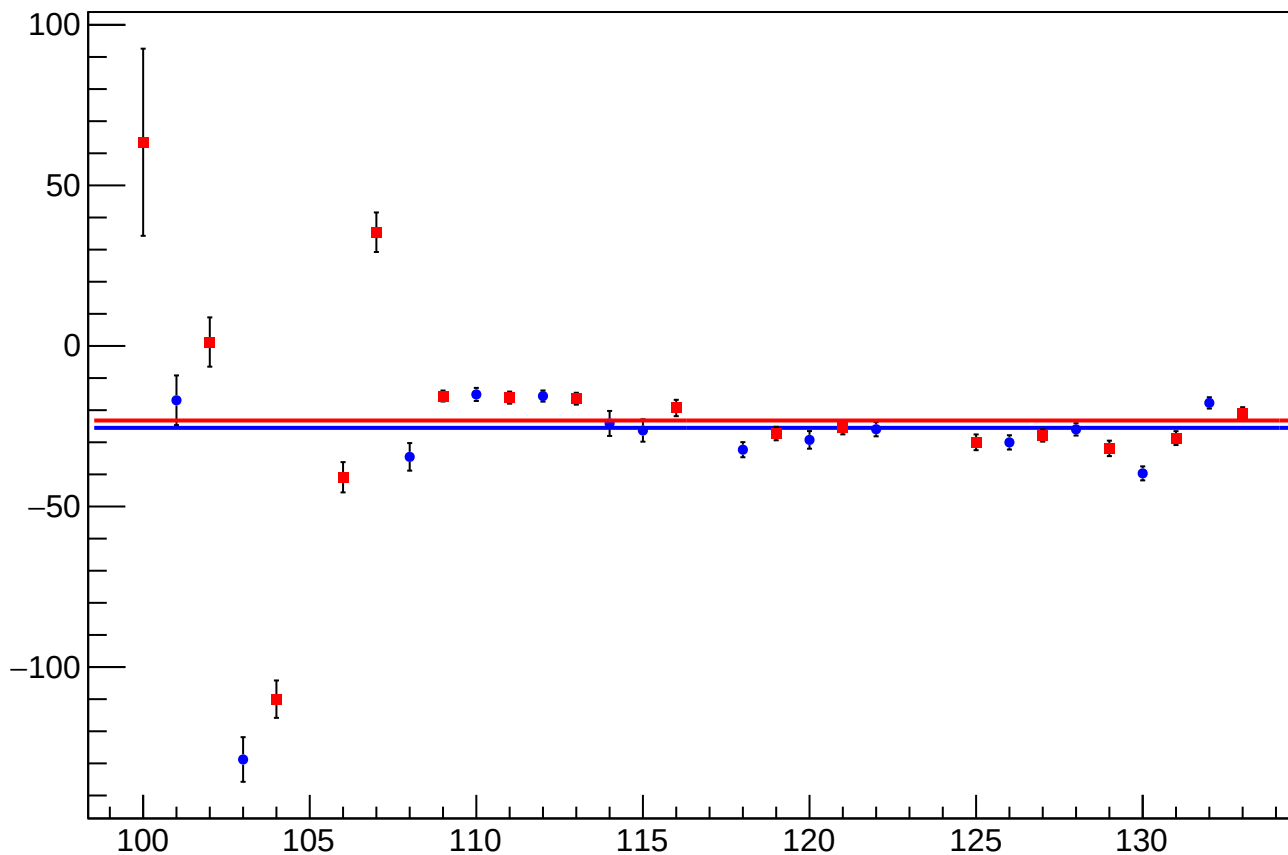
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -35.380+/-0.050  $\chi^2/\text{NDF}$ : 907096.3/29

- 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:  $-25.505 \pm 0.654$   $\chi^2/\text{NDF}$ : 361.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-23.214 \pm 0.611$   $\chi^2/\text{NDF}$ : 434.6/15

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

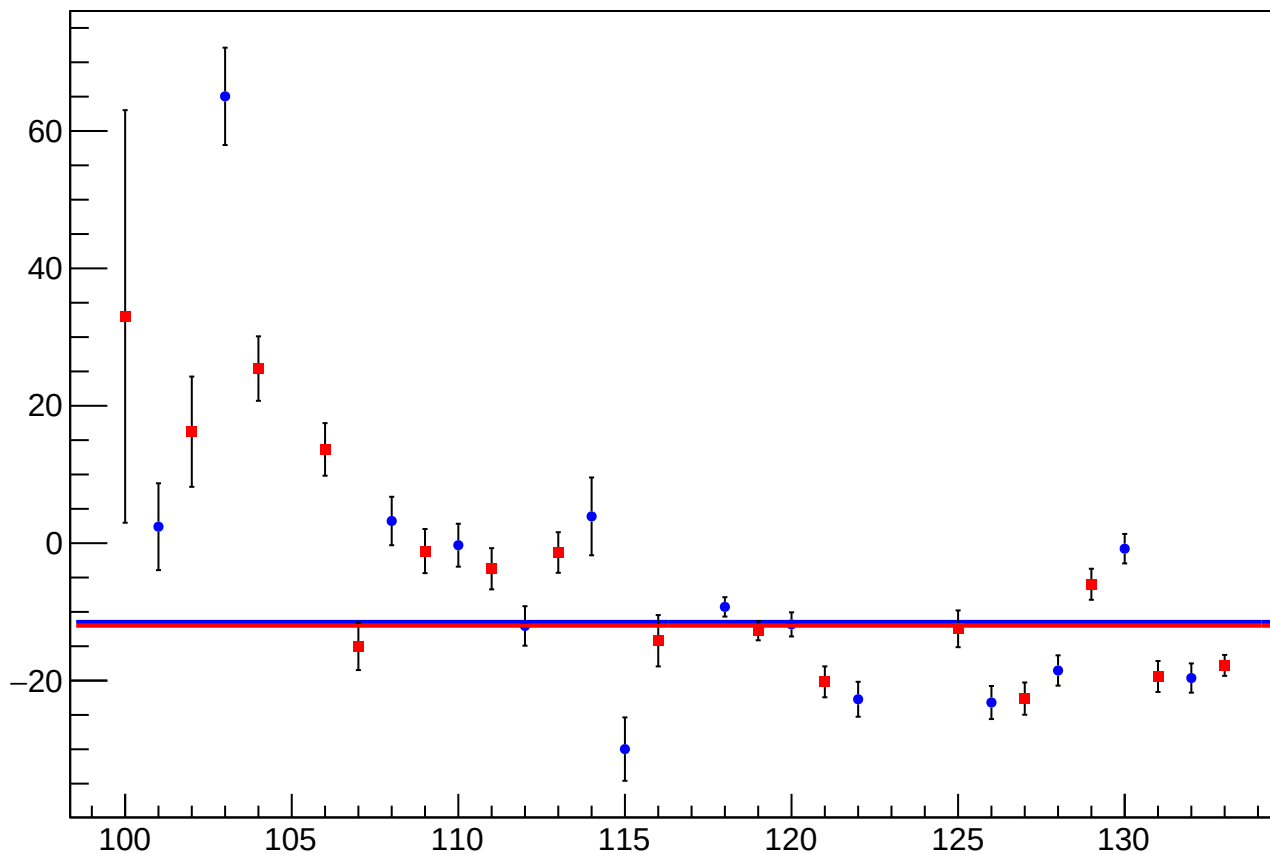
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-24.283 \pm 0.447$   $\chi^2/\text{NDF}$ : 802.6/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -11.456+/-0.670  $\chi^2/\text{NDF}$ : 270.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12.016+/-0.637  $\chi^2/\text{NDF}$ : 222.6/15

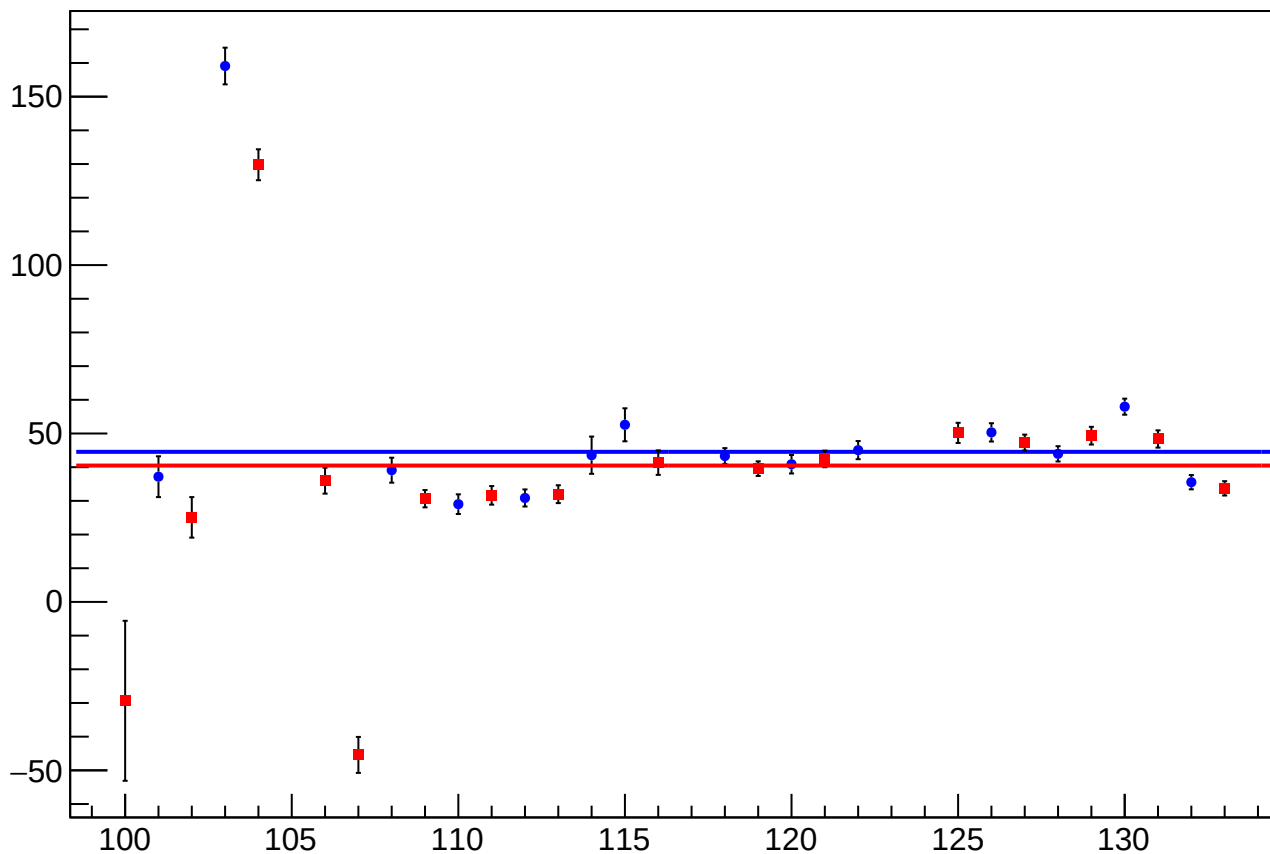
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -11.750+/-0.462  $\chi^2/\text{NDF}$ : 493.4/29

- 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: 44.558 $\pm$ 0.776  $\chi^2$ /NDF: 562.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 40.484 $\pm$ 0.732  $\chi^2$ /NDF: 739.1/15

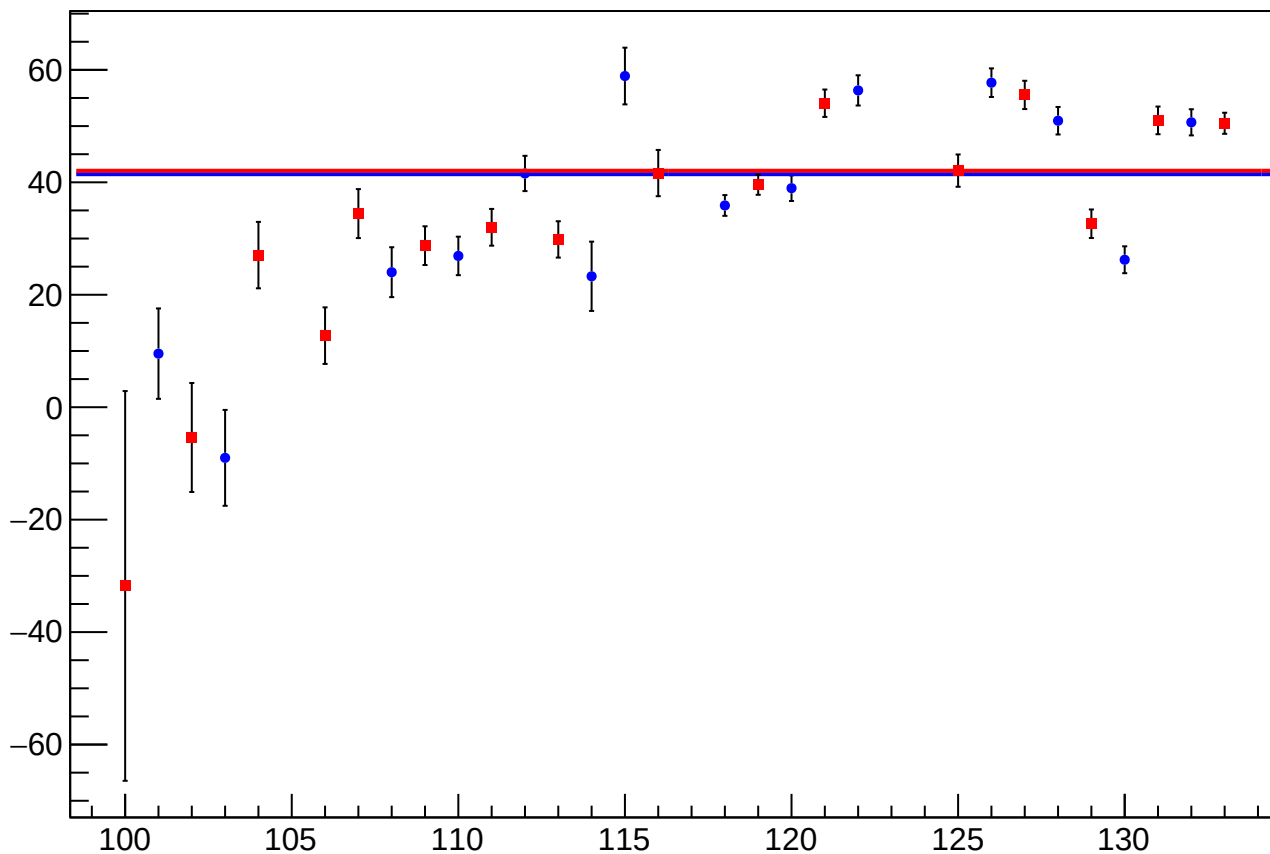
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 42.401 $\pm$ 0.532  $\chi^2$ /NDF: 1316.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 41.444+/-0.781  $\chi^2$ /NDF: 258.1/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 42.056+/-0.739  $\chi^2$ /NDF: 213.1/15

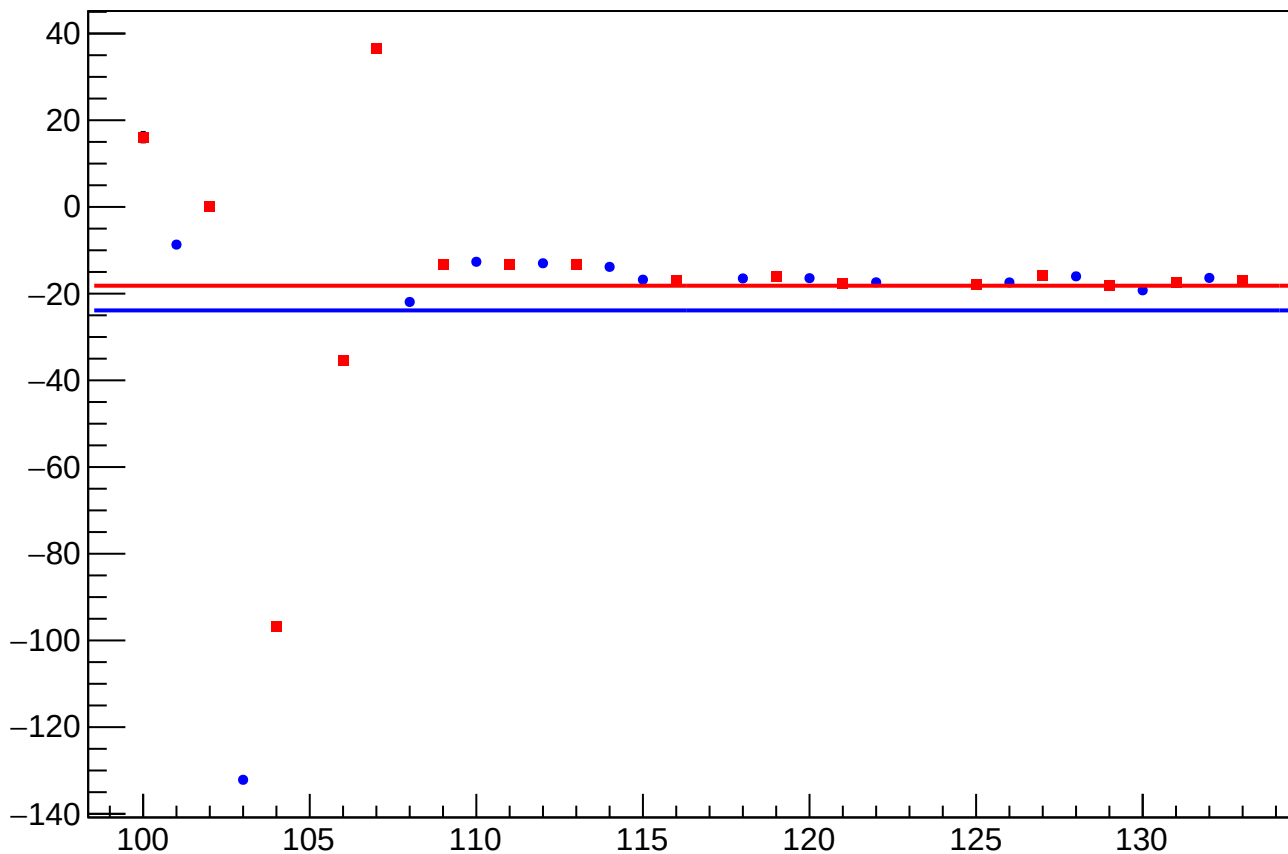
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 41.767+/-0.537  $\chi^2$ /NDF: 471.5/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-23.869 \pm 0.057$   $\chi^2/\text{NDF}$ : 237085.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-18.173 \pm 0.052$   $\chi^2/\text{NDF}$ : 203571.4/15

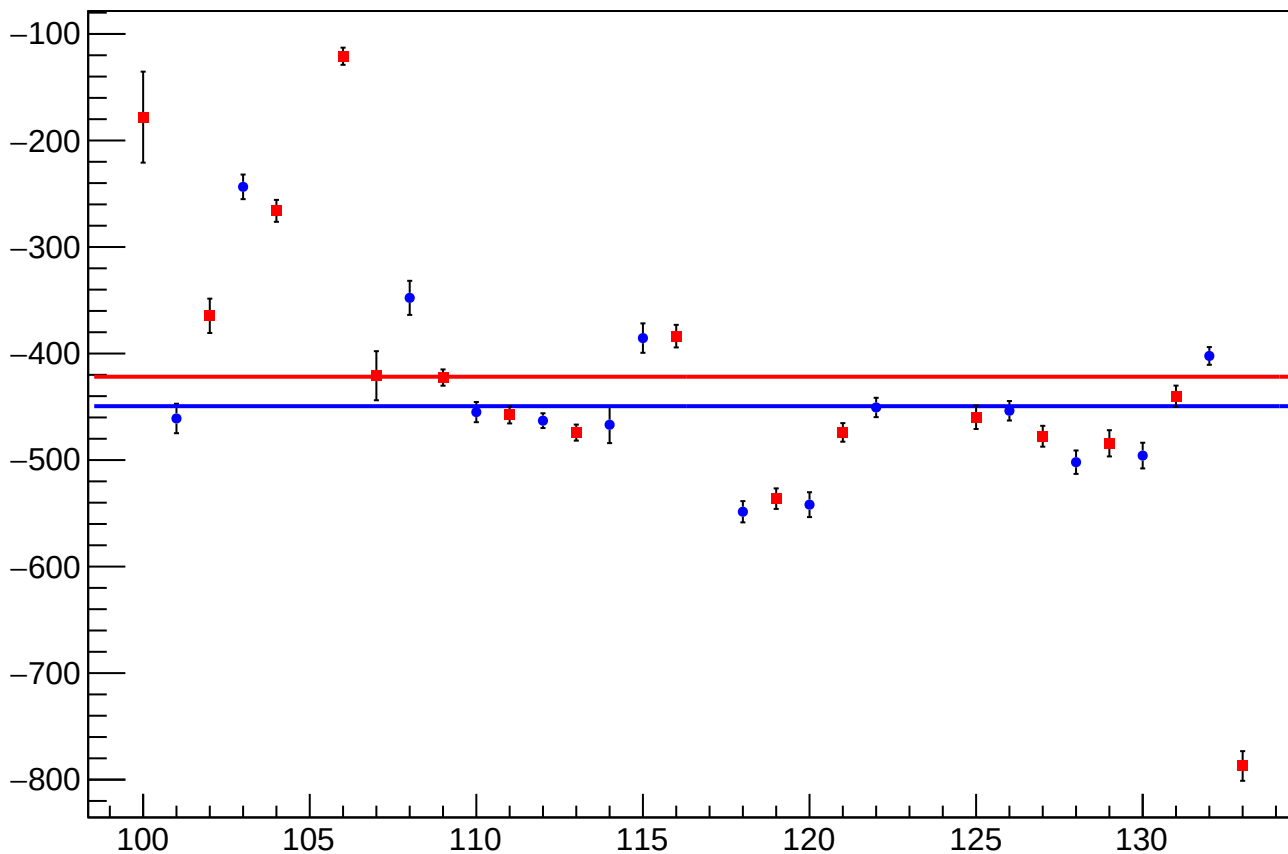
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-20.789 \pm 0.039$   $\chi^2/\text{NDF}$ : 446069.5/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -449.423+/-2.793  $\chi^2$ /NDF: 616.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -421.760+/-2.539  $\chi^2$ /NDF: 2693.6/15

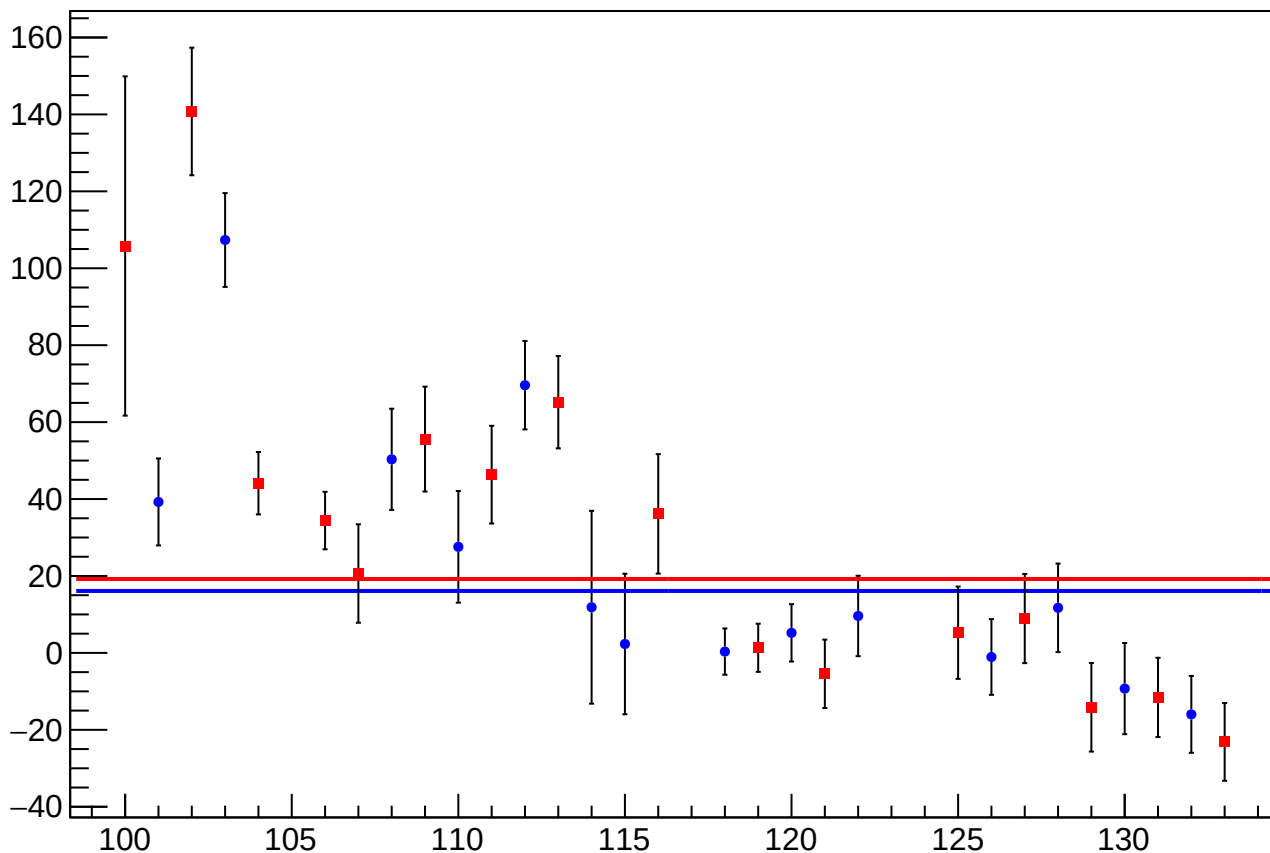
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -434.274+/-1.879  $\chi^2$ /NDF: 3364.1/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 16.104+/-2.806  $\chi^2/\text{NDF}$ : 117.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19.218+/-2.623  $\chi^2/\text{NDF}$ : 151.6/15

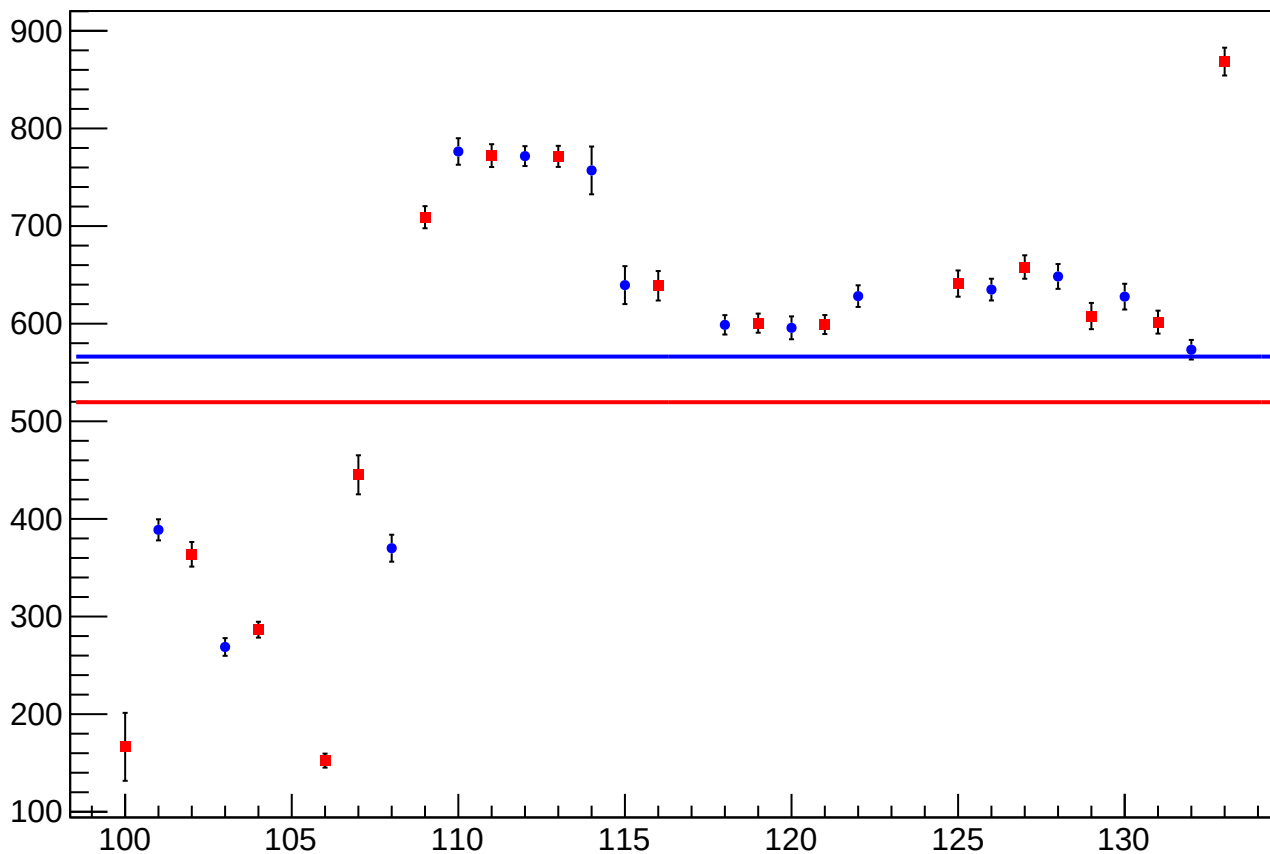
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.766+/-1.916  $\chi^2/\text{NDF}$ : 269.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 566.306+/-3.148  $\chi^2/\text{NDF}$ : 2420.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 519.560+/-2.845  $\chi^2/\text{NDF}$ : 6113.7/15

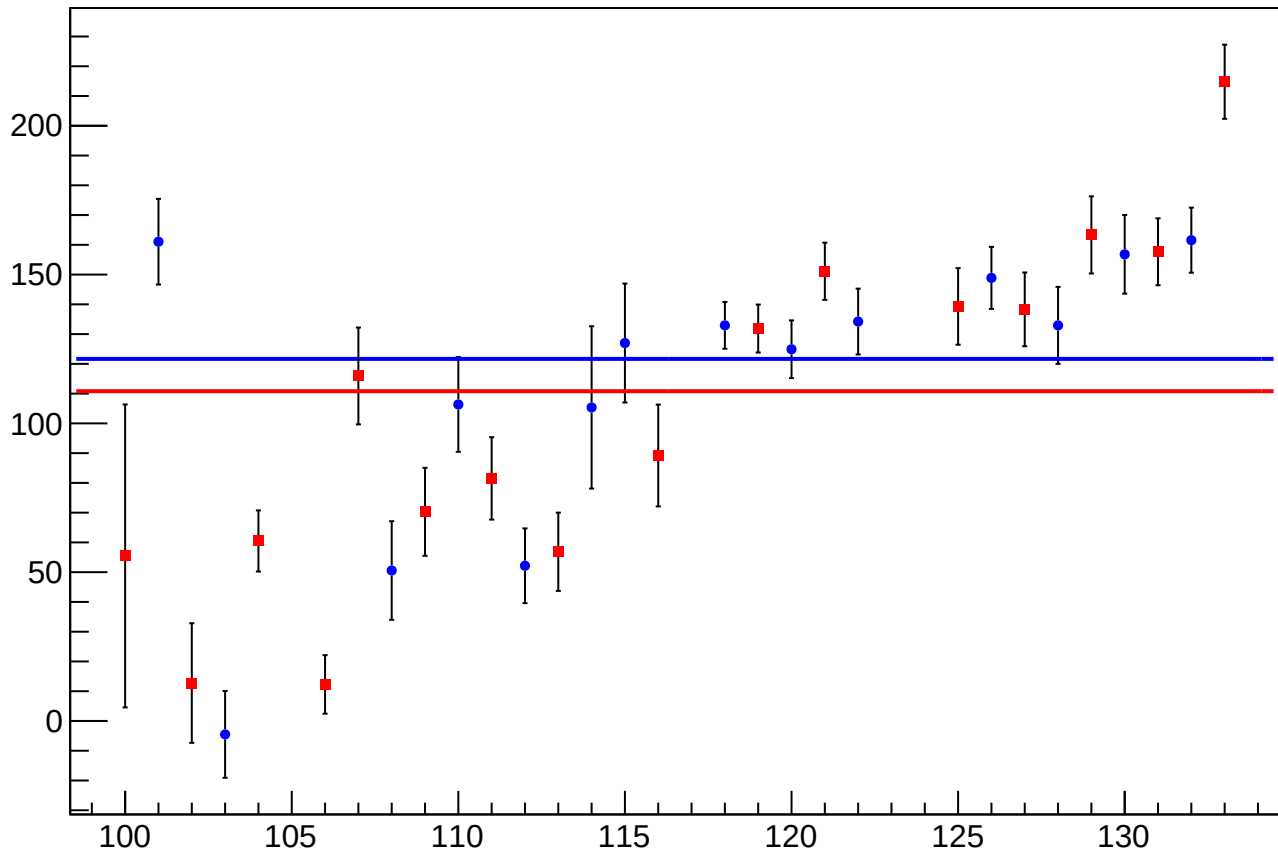
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 540.575+/-2.111  $\chi^2/\text{NDF}$ : 8655.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 121.667 $\pm$ 3.305  $\chi^2$ /NDF: 164.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 110.814 $\pm$ 3.093  $\chi^2$ /NDF: 317.5/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

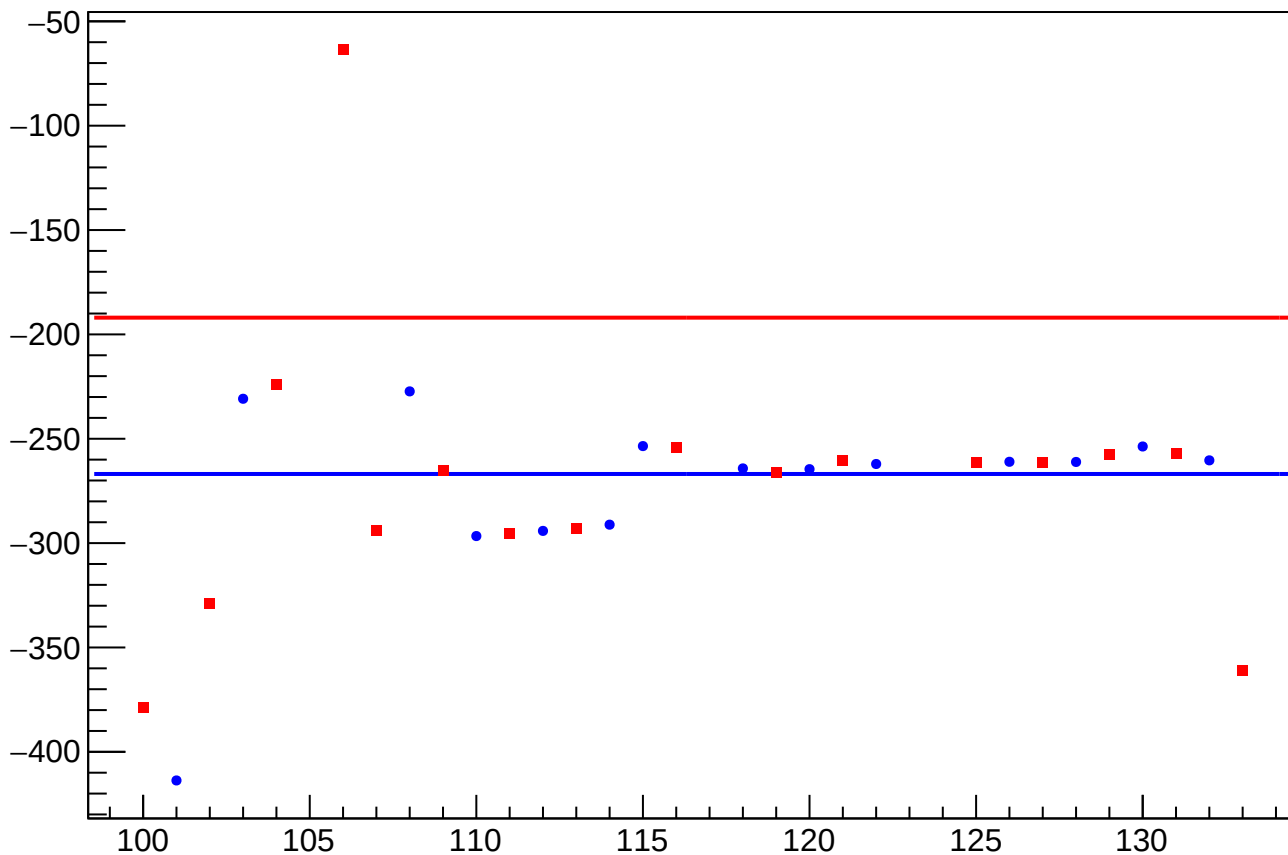
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 115.881 $\pm$ 2.258  $\chi^2$ /NDF: 487.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -266.876+/-0.203  $\chi^2/\text{NDF}$ : 68014.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -191.975+/-0.158  $\chi^2/\text{NDF}$ : 448547.4/15

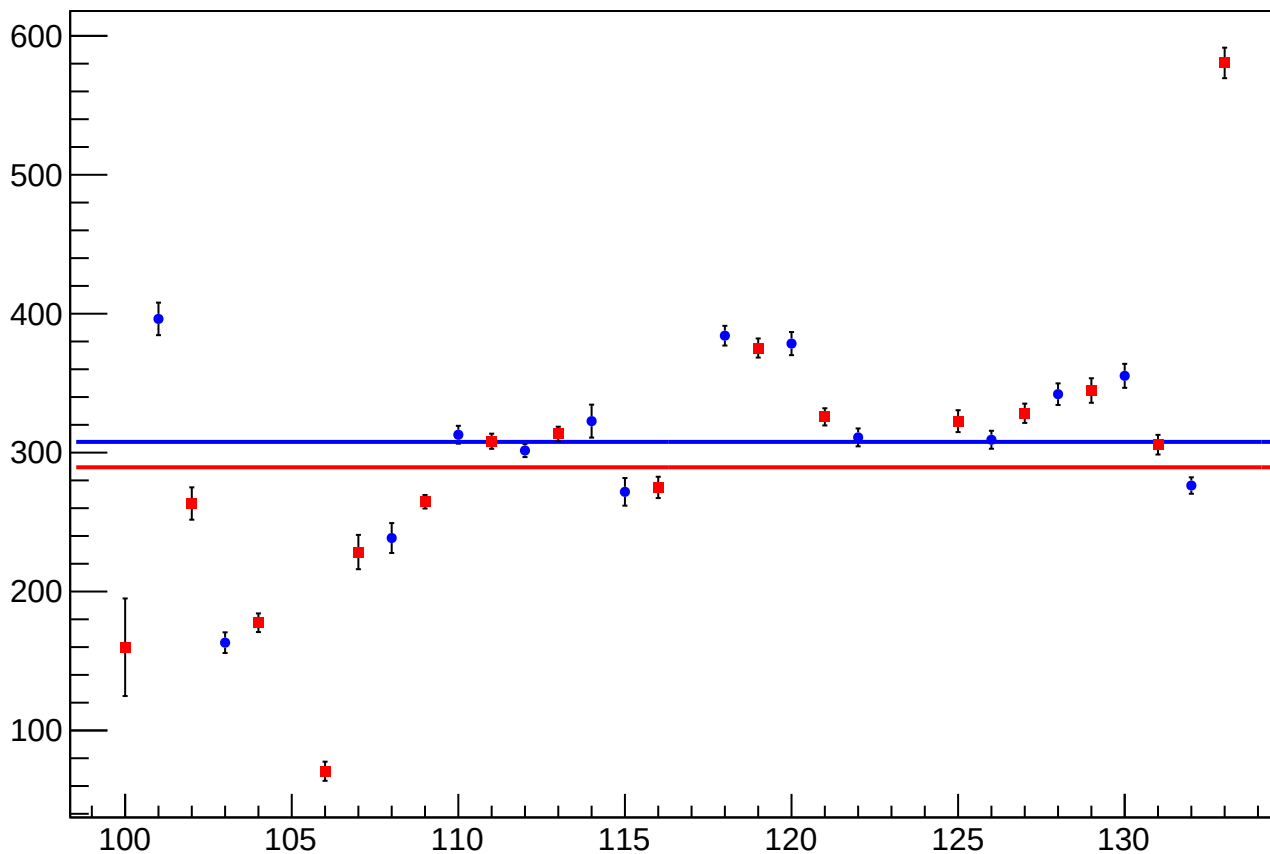
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -220.290+/-0.125  $\chi^2/\text{NDF}$ : 601320.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 307.721+/-1.960  $\chi^2/\text{NDF}$ : 758.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 289.447+/-1.785  $\chi^2/\text{NDF}$ : 2379.5/15

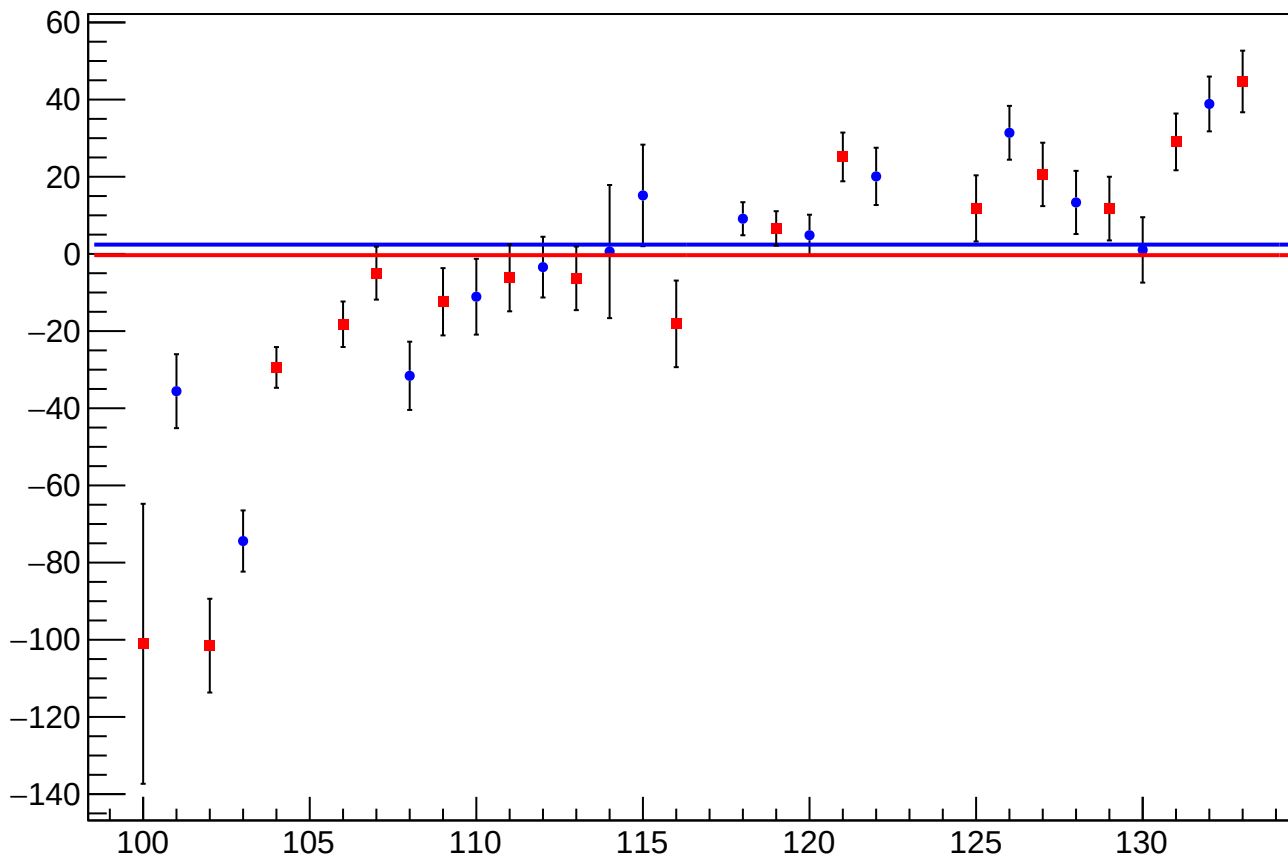
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 297.736+/-1.320  $\chi^2/\text{NDF}$ : 3185.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 2.411+/-1.990  $\chi^2/\text{NDF}$ : 181.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.322+/-1.841  $\chi^2/\text{NDF}$ : 199.6/15

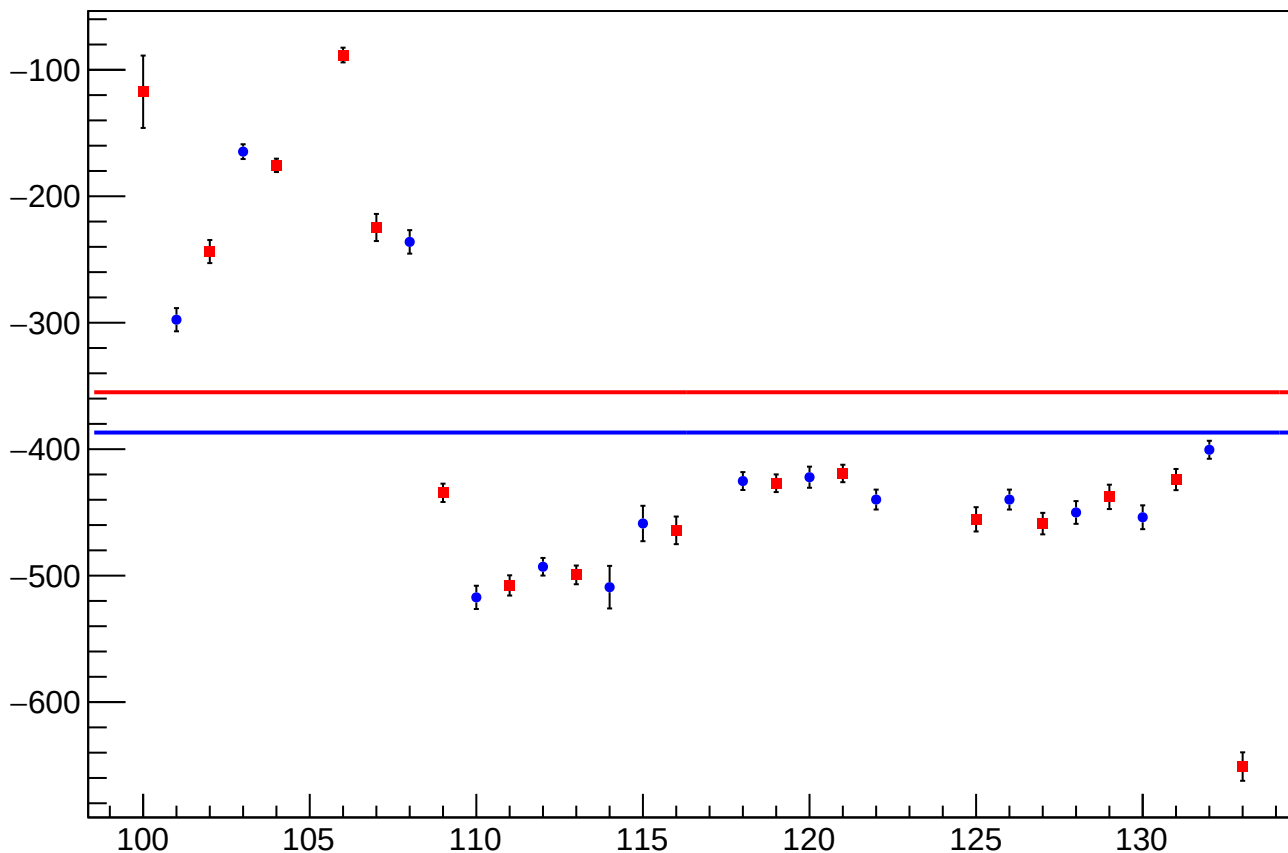
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.939+/-1.352  $\chi^2/\text{NDF}$ : 382.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -386.846+/-2.216  $\chi^2/\text{NDF}$ : 2555.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -354.985+/-2.010  $\chi^2/\text{NDF}$ : 5858.1/15

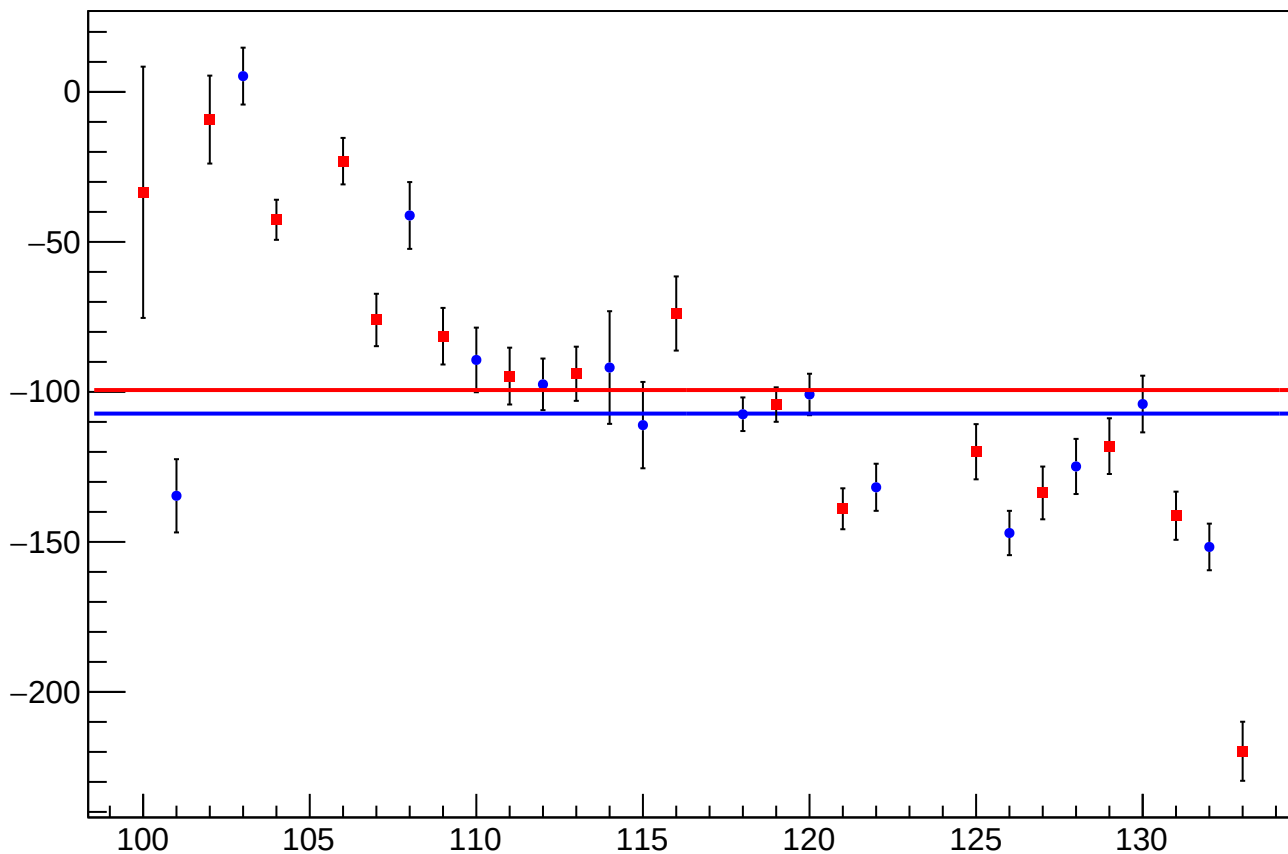
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -369.373+/-1.489  $\chi^2/\text{NDF}$ : 8527.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-107.227 \pm 2.340$   $\chi^2/\text{NDF}$ : 262.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-99.380 \pm 2.169$   $\chi^2/\text{NDF}$ : 460.5/15

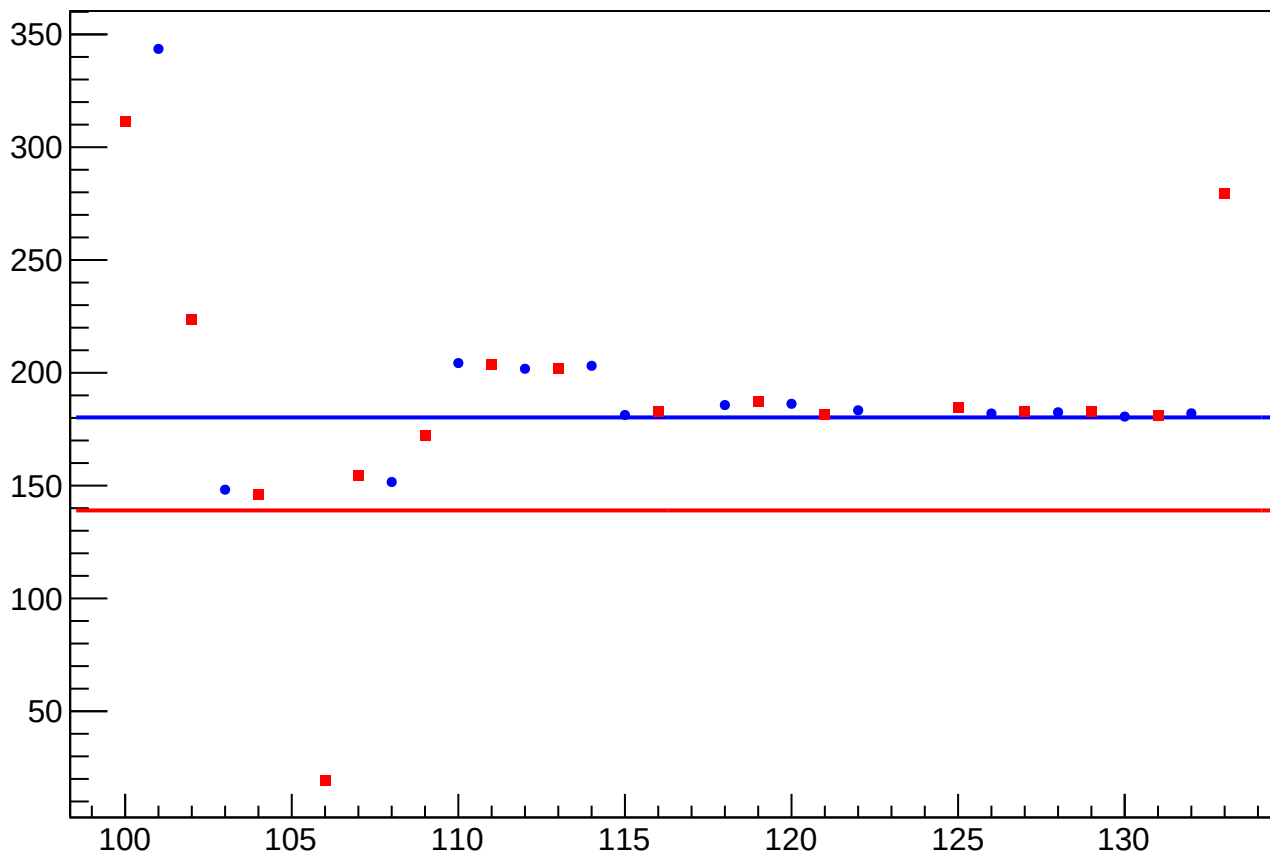
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-103.007 \pm 1.591$   $\chi^2/\text{NDF}$ : 728.6/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 180.230+/-0.140  $\chi^2/\text{NDF}$ : 114895.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 139.003+/-0.118  $\chi^2/\text{NDF}$ : 414632.9/15

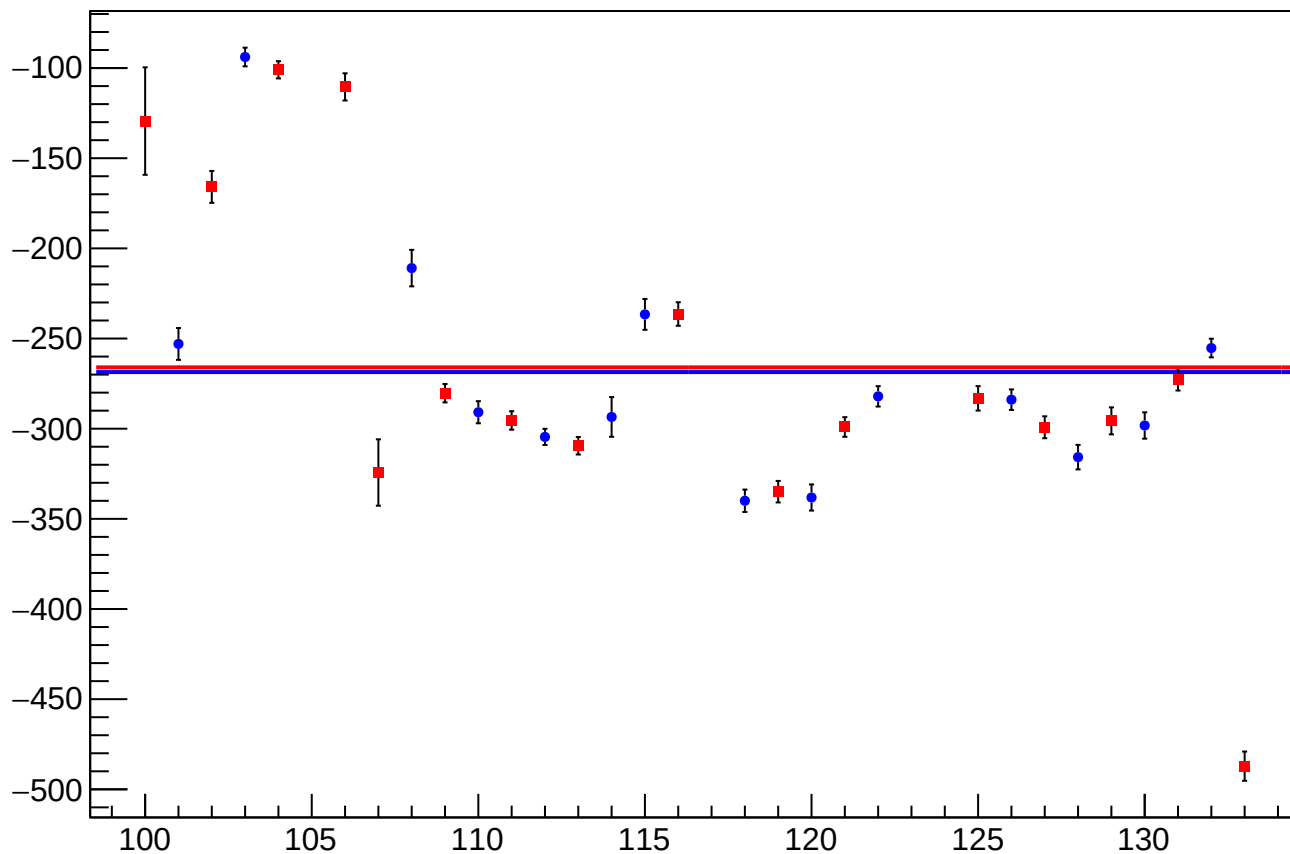
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 155.999+/-0.090  $\chi^2/\text{NDF}$ : 580232.9/29

- 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: -268.603+/-1.707  $\chi^2/\text{NDF}$ : 1579.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -265.974+/-1.598  $\chi^2/\text{NDF}$ : 2886.9/15

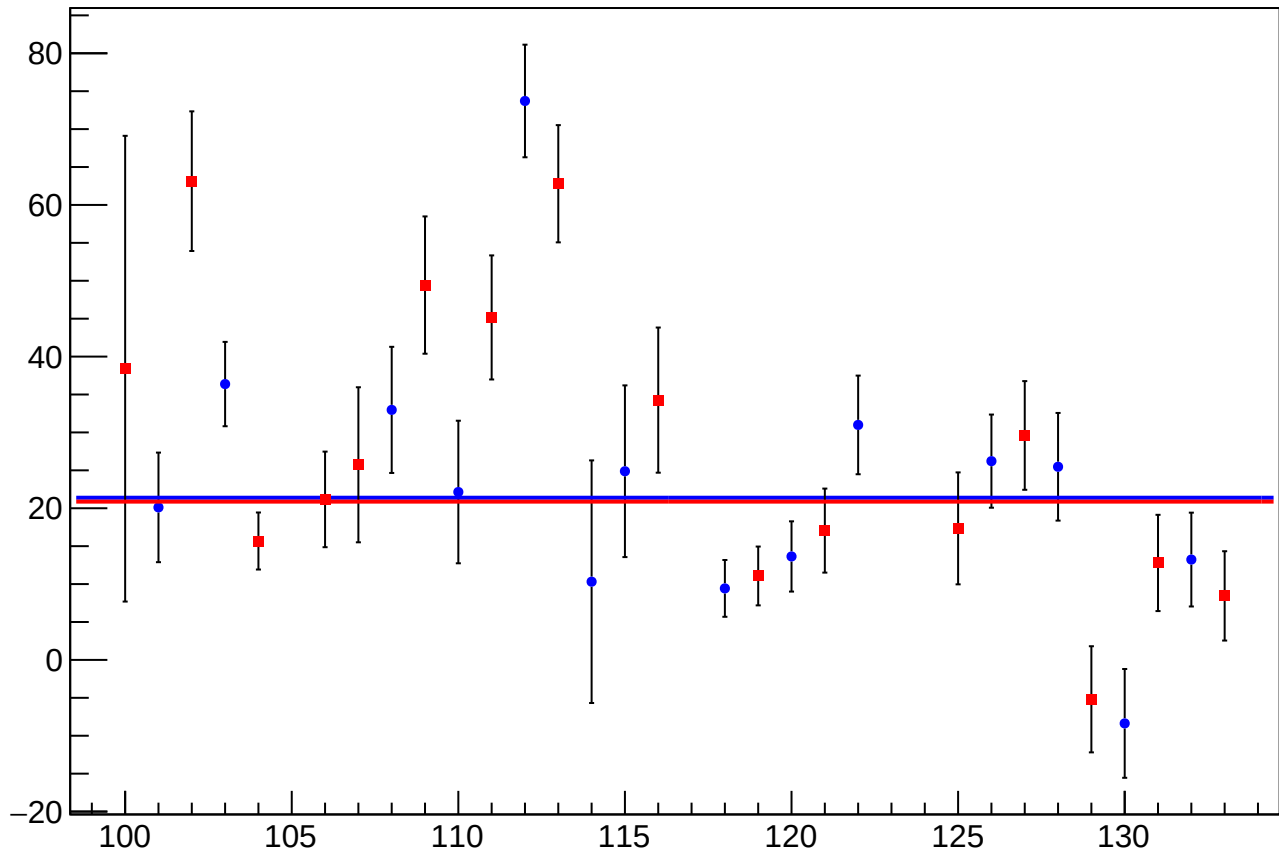
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -267.202+/-1.167  $\chi^2/\text{NDF}$ : 4468.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 21.388+/-1.714  $\chi^2/\text{NDF}$ : 94.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.874+/-1.614  $\chi^2/\text{NDF}$ : 102.2/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

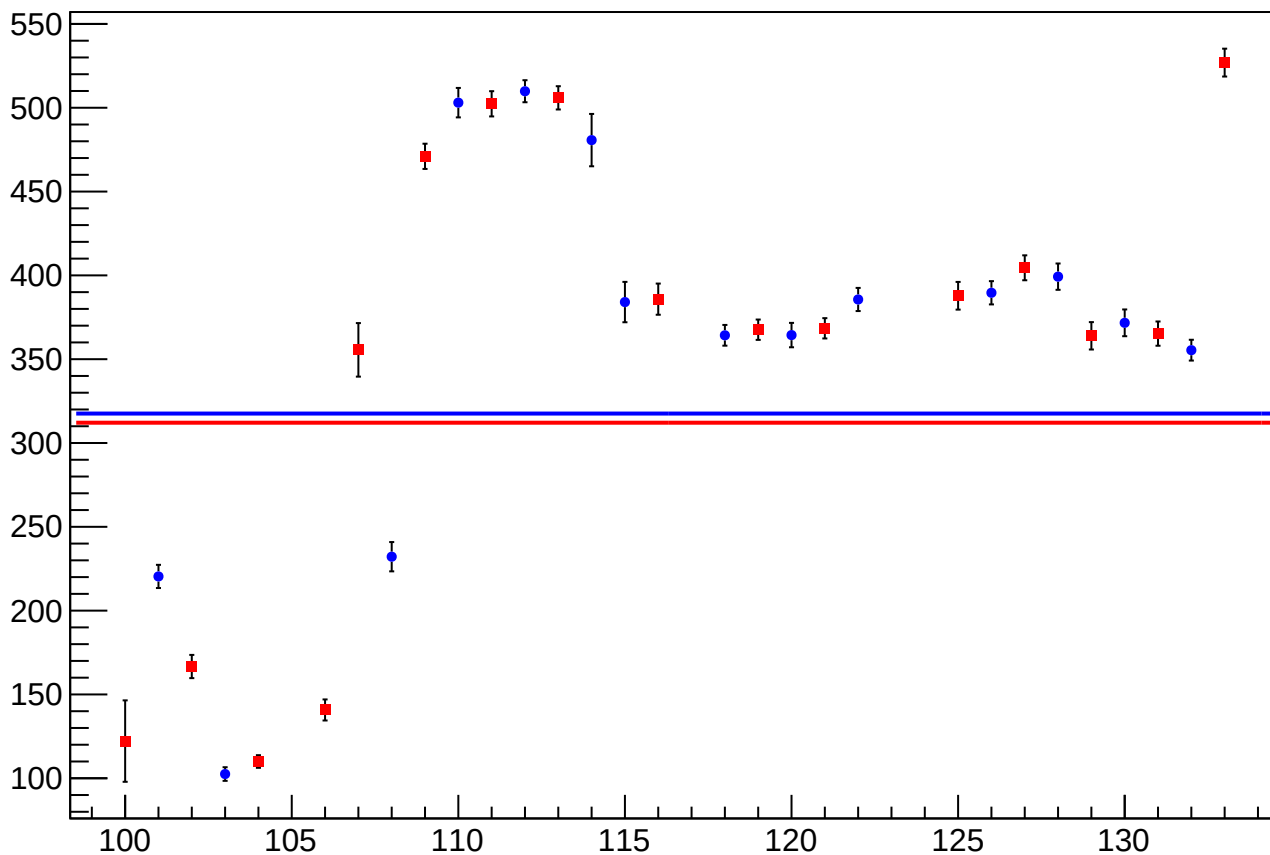
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.116+/-1.175  $\chi^2/\text{NDF}$ : 196.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 317.567+/-1.869  $\chi^2/\text{NDF}$ : 5026.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 312.108+/-1.753  $\chi^2/\text{NDF}$ : 7227.8/15

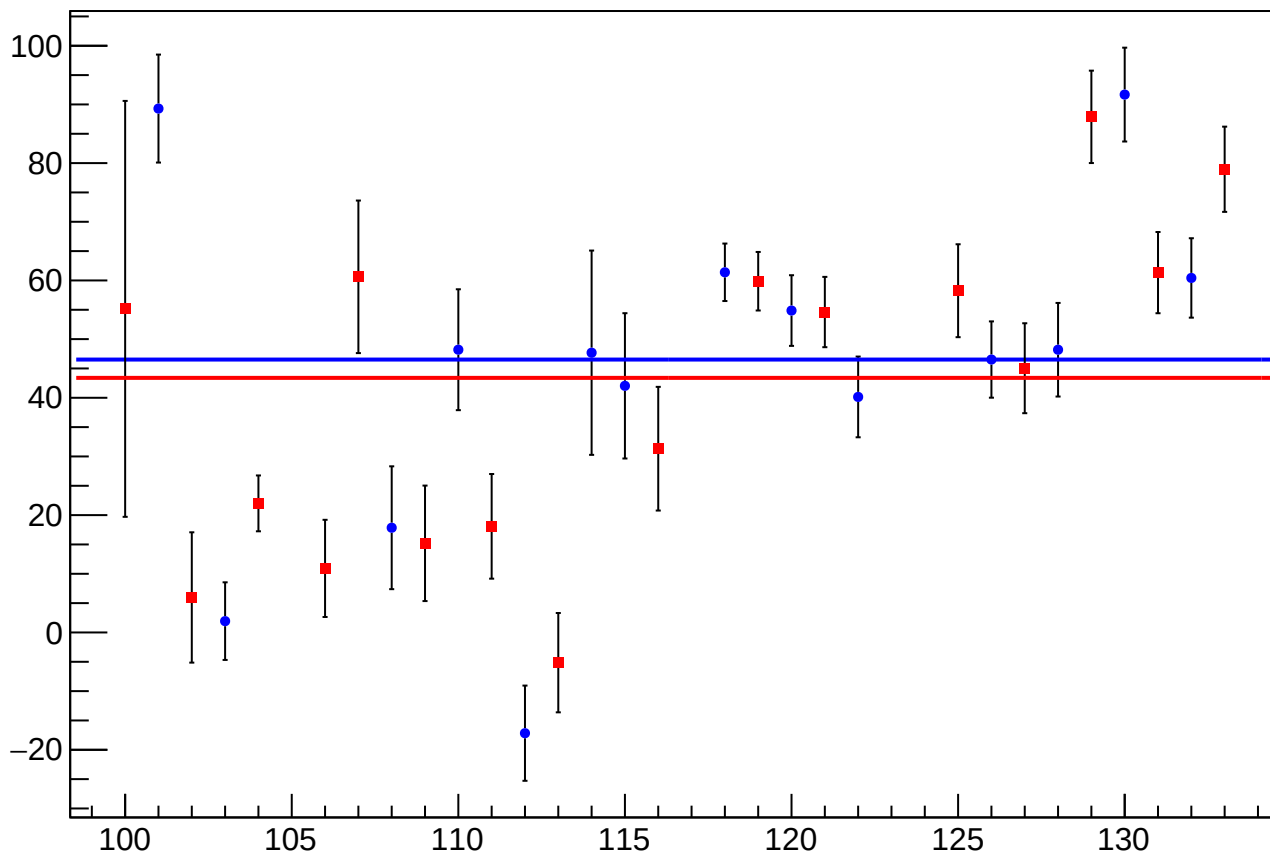
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 314.662+/-1.278  $\chi^2/\text{NDF}$ : 12259.3/29

- 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: 46.515 $\pm$ 2.019  $\chi^2$ /NDF: 184.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 43.394 $\pm$ 1.902  $\chi^2$ /NDF: 179.8/15

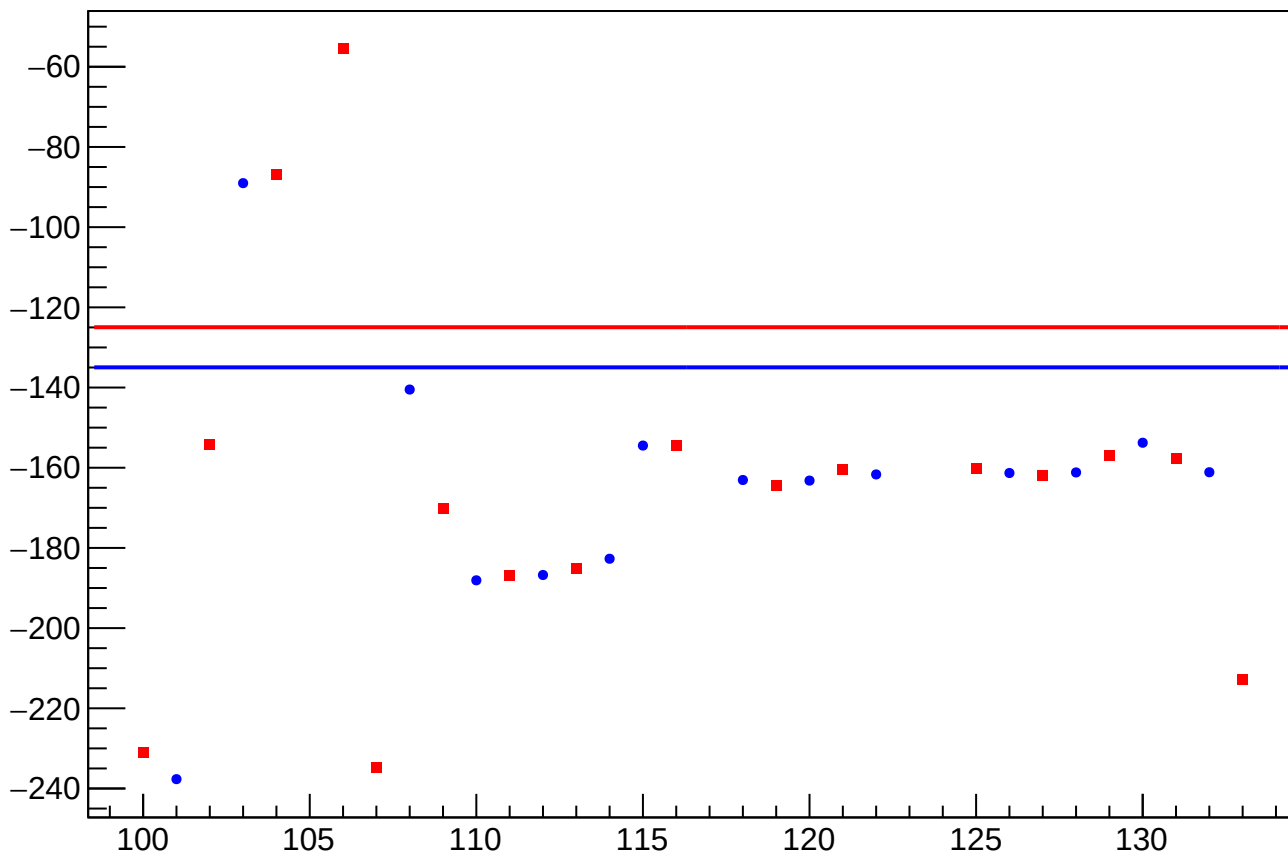
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 44.862 $\pm$ 1.384  $\chi^2$ /NDF: 365.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -134.967+/-0.113  $\chi^2/\text{NDF}$ : 169041.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -124.958+/-0.104  $\chi^2/\text{NDF}$ : 240089.8/15

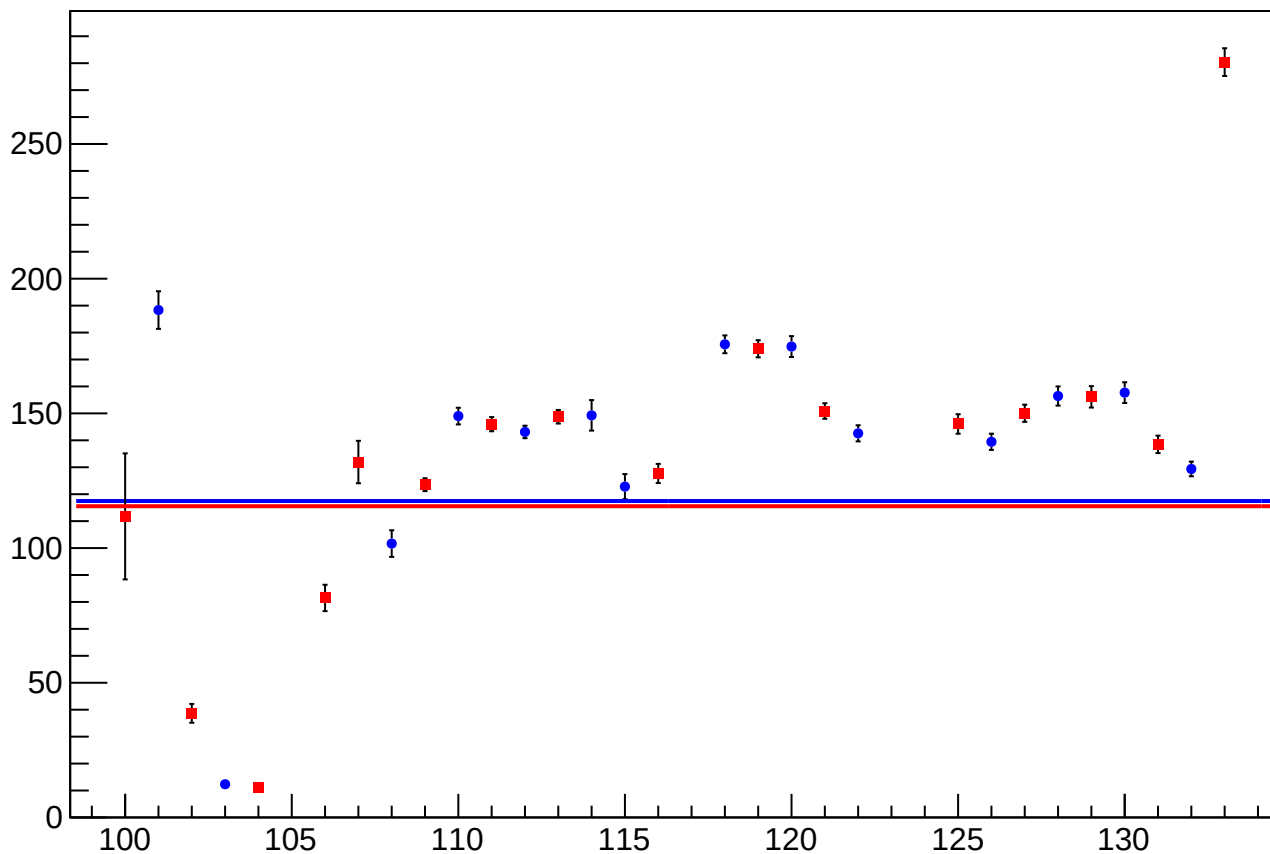
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -129.543+/-0.076  $\chi^2/\text{NDF}$ : 413410.5/29

- 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: 117.465 $\pm$ 0.848  $\chi^2$ /NDF: 4617.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 115.538 $\pm$ 0.793  $\chi^2$ /NDF: 5995.8/15

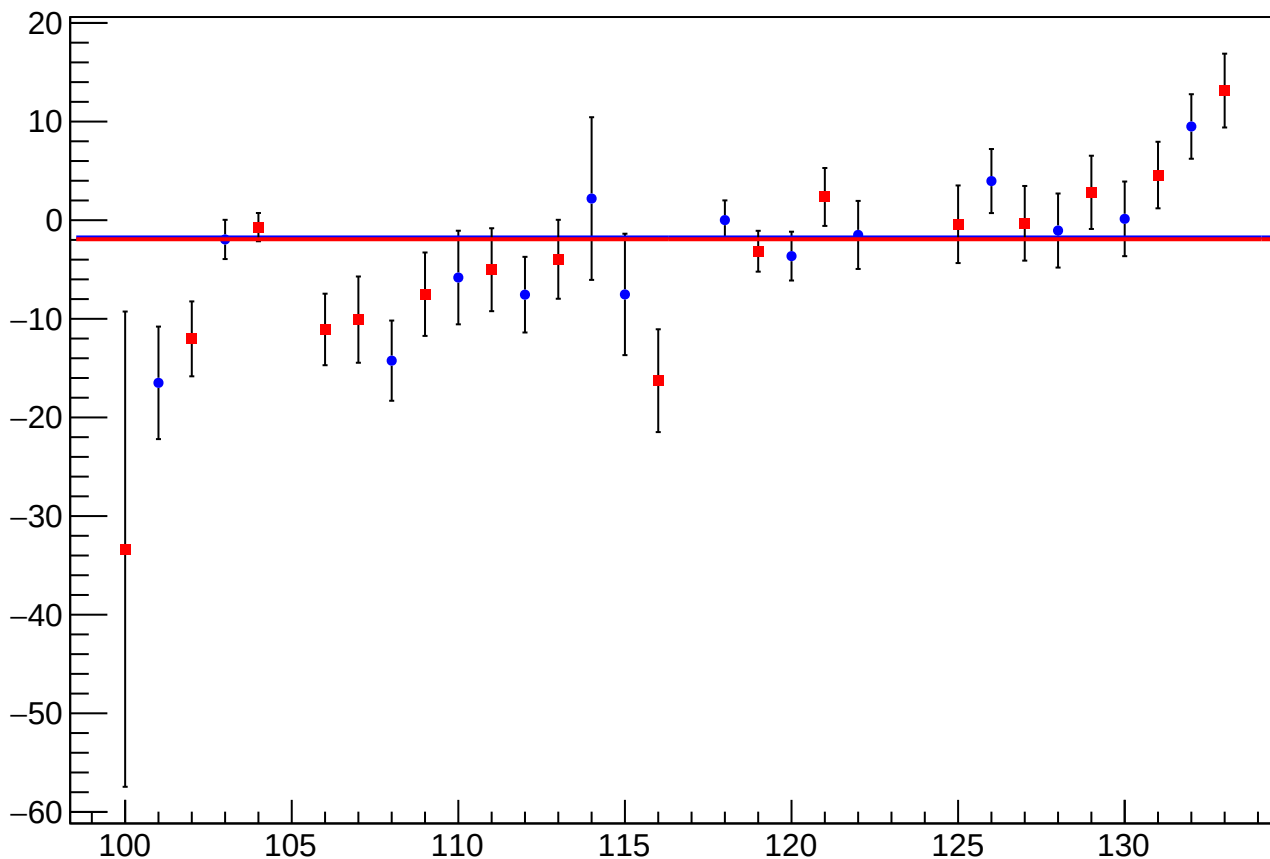
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 116.438 $\pm$ 0.579  $\chi^2$ /NDF: 10616.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -1.750+/-0.869  $\chi^2/\text{NDF}$ : 36.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.932+/-0.787  $\chi^2/\text{NDF}$ : 53.8/15

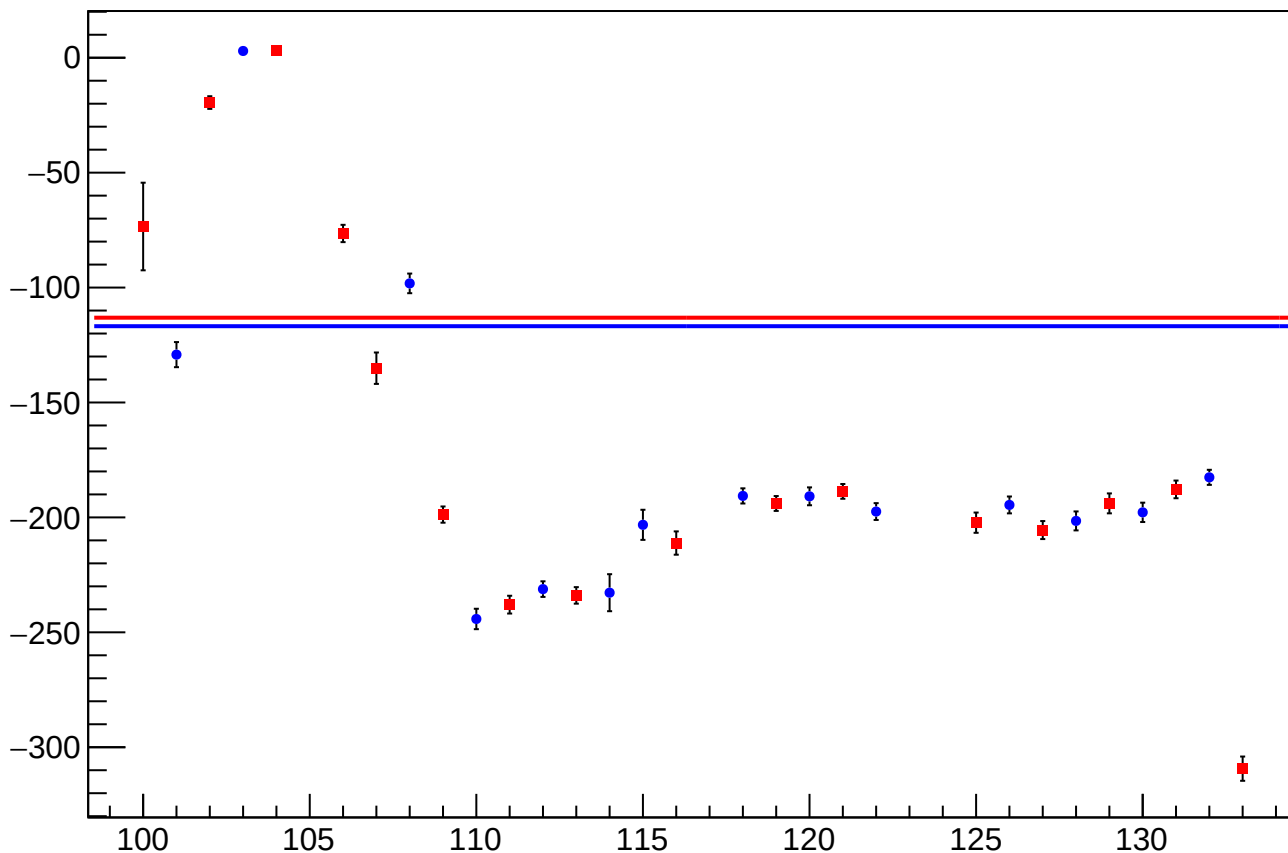
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.850+/-0.583  $\chi^2/\text{NDF}$ : 90.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -116.810+/-0.887  $\chi^2/\text{NDF}$ : 12391.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -113.107+/-0.834  $\chi^2/\text{NDF}$ : 15137.6/15

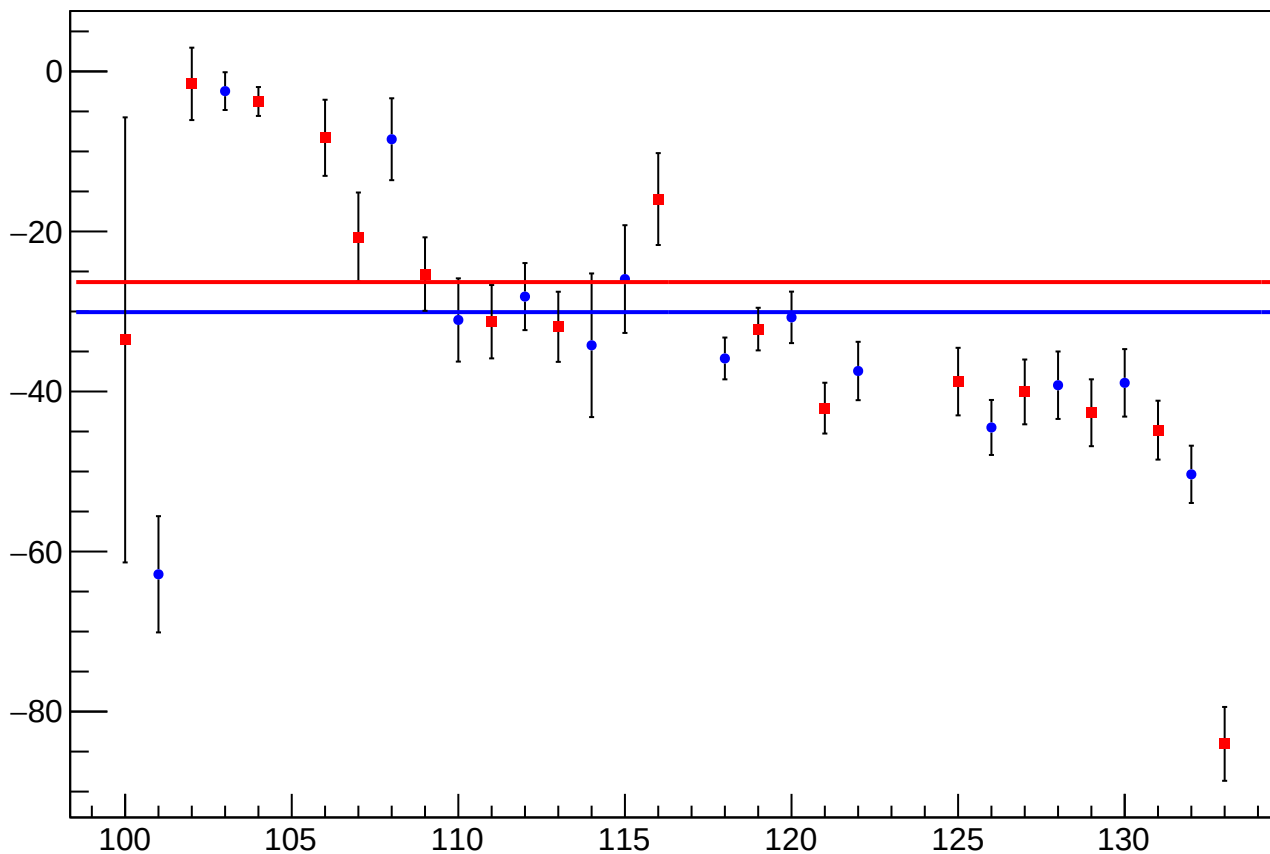
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -114.844+/-0.608  $\chi^2/\text{NDF}$ : 27538.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-30.081 \pm 1.021$   $\chi^2/\text{NDF}$ : 243.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-26.326 \pm 0.934$   $\chi^2/\text{NDF}$ : 454.4/15

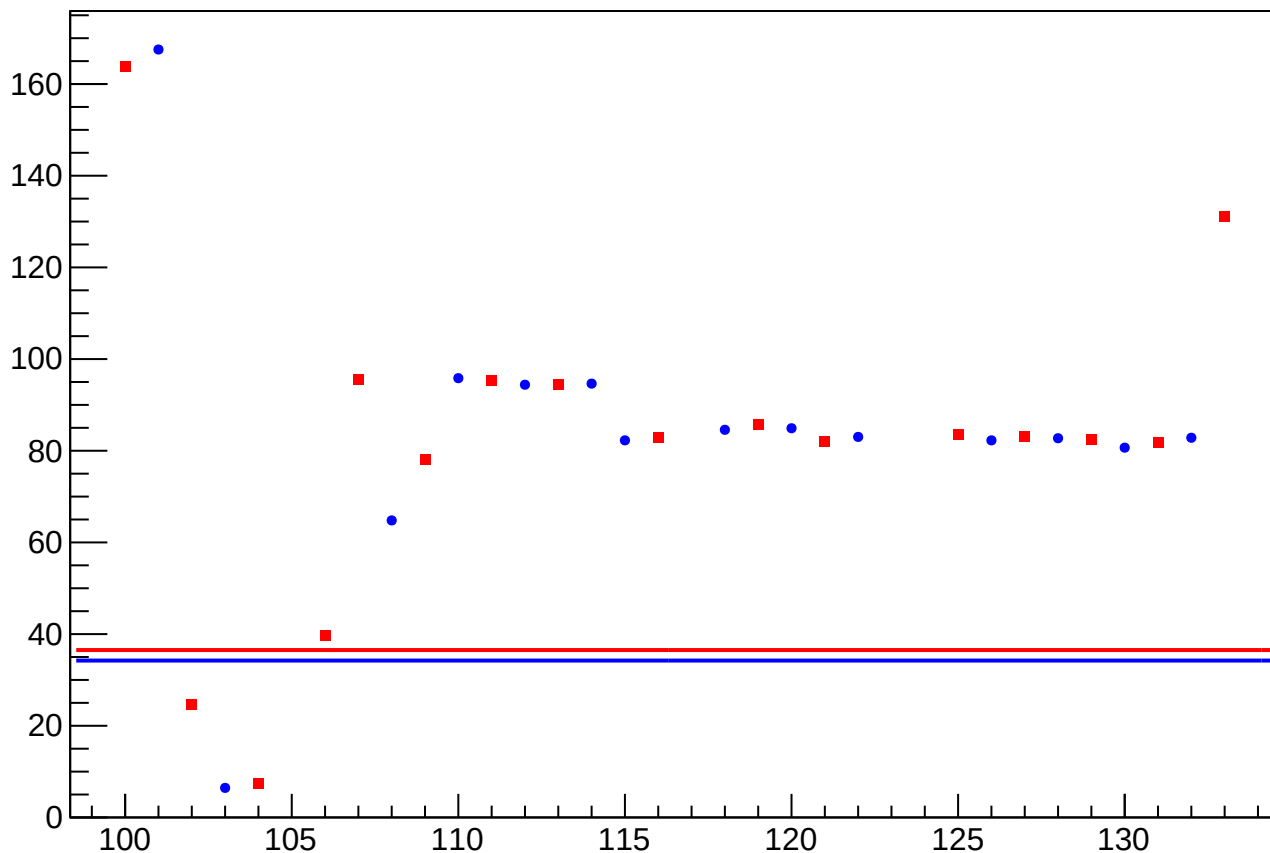
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-28.036 \pm 0.689$   $\chi^2/\text{NDF}$ : 705.5/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 34.226+/-0.048  $\chi^2/\text{NDF}$ : 710700.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.520+/-0.047  $\chi^2/\text{NDF}$ : 586792.9/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

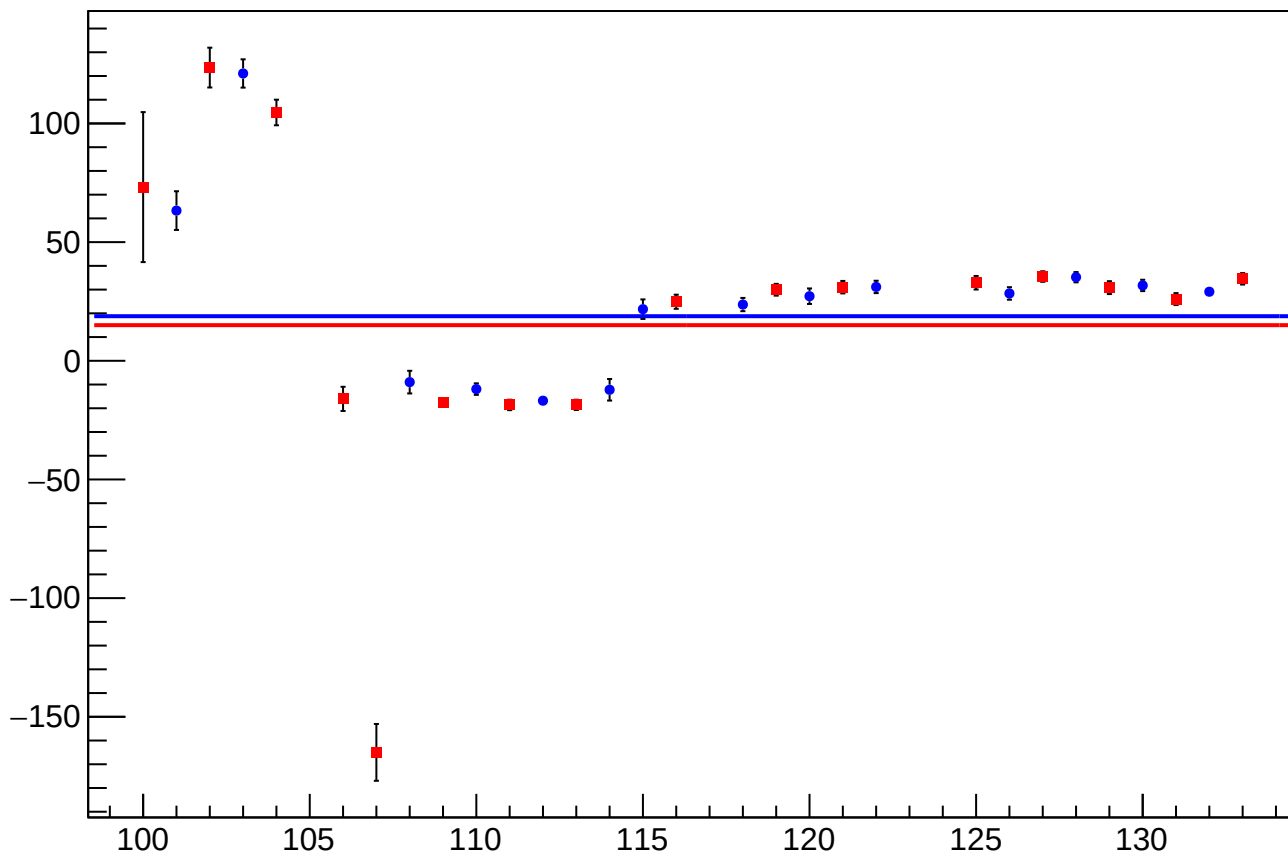
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.391+/-0.034  $\chi^2/\text{NDF}$ : 1298657.2/29

- 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: 18.790 $\pm$ 0.756  $\chi^2$ /NDF: 1030.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 15.012 $\pm$ 0.714  $\chi^2$ /NDF: 1760.5/15

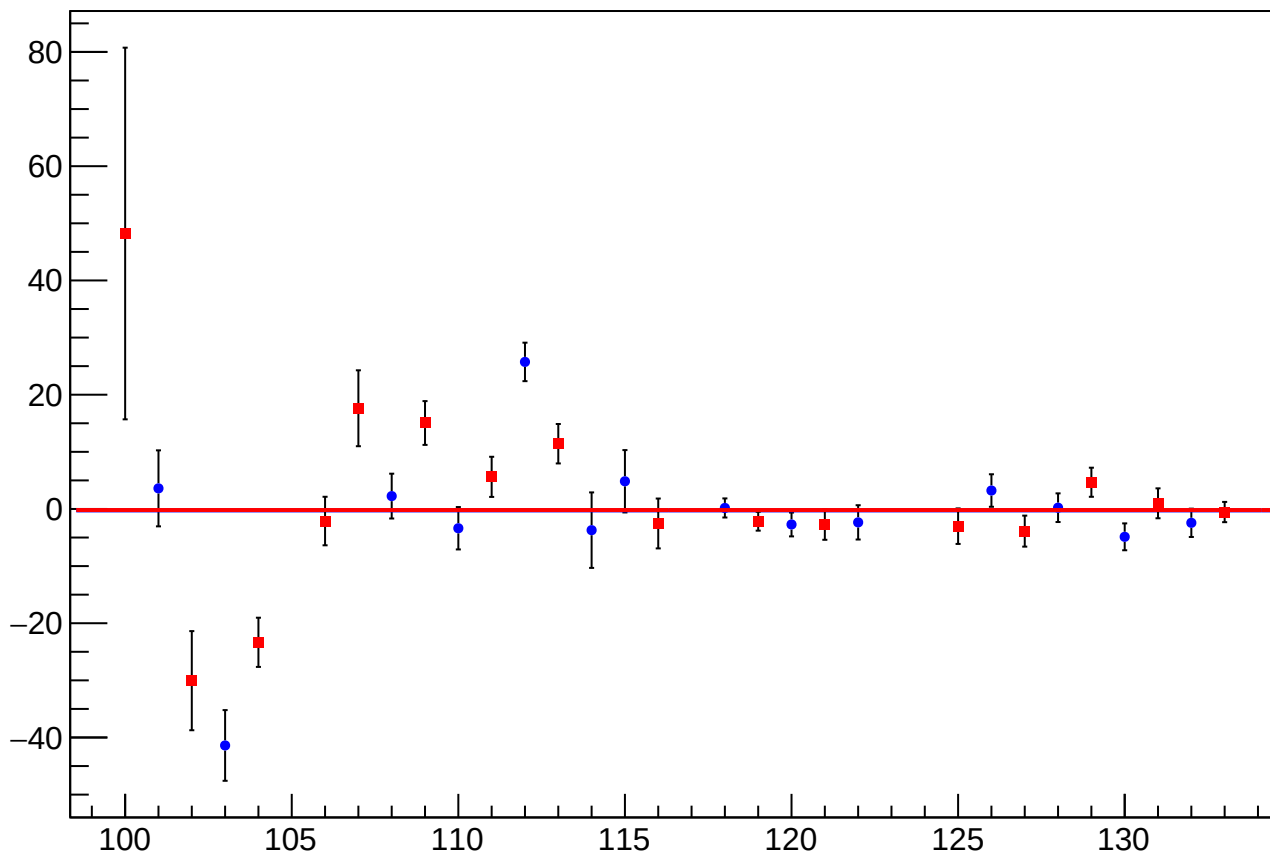
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.792 $\pm$ 0.519  $\chi^2$ /NDF: 2803.8/29

- 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:  $-0.249 \pm 0.777$   $\chi^2/\text{NDF}$ : 114.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.187 \pm 0.746$   $\chi^2/\text{NDF}$ : 89.4/15

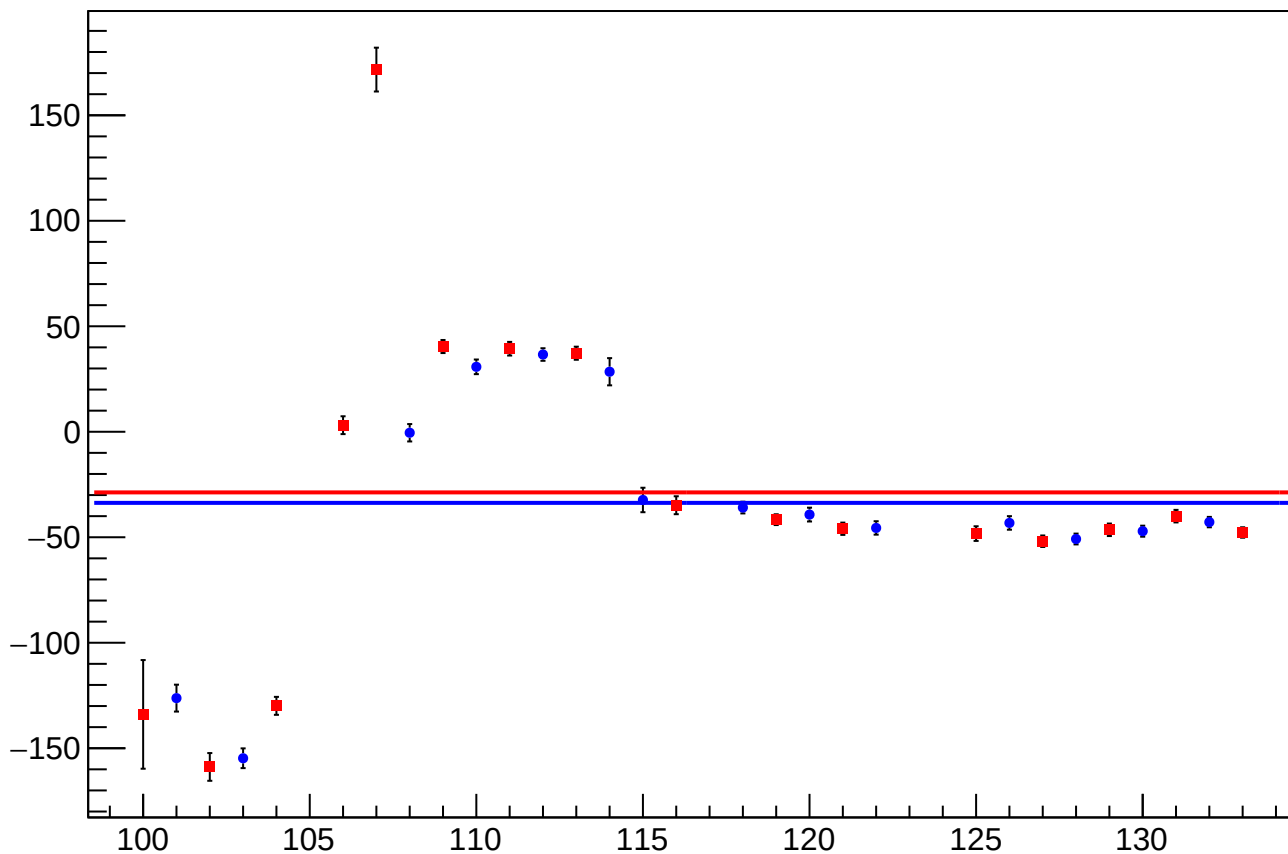
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.217 \pm 0.538$   $\chi^2/\text{NDF}$ : 203.9/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -33.700 $\pm$ 0.891  $\chi^2$ /NDF: 2052.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -28.739 $\pm$ 0.850  $\chi^2$ /NDF: 3074.5/15

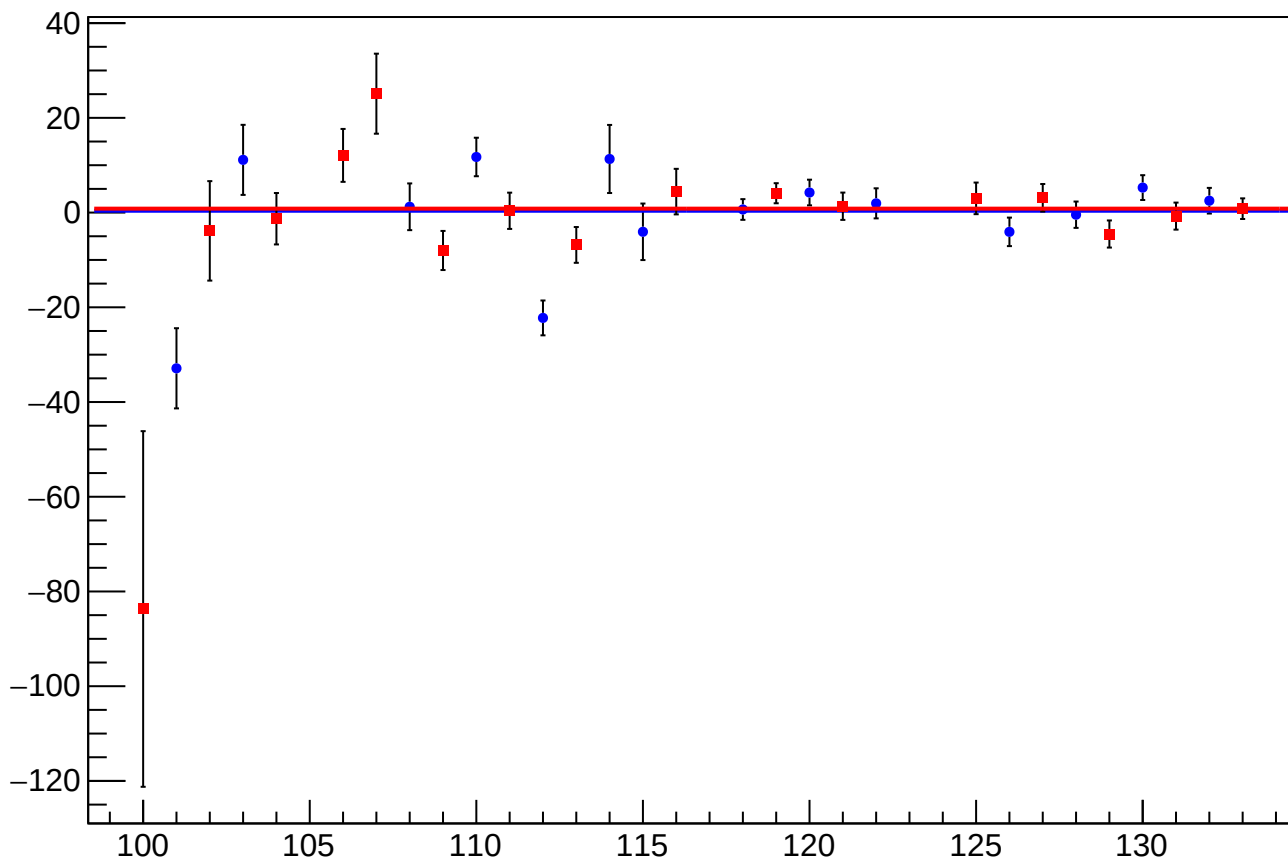
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -31.104 $\pm$ 0.615  $\chi^2$ /NDF: 5142.9/29

- 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: 0.388+/-0.905  $\chi^2/\text{NDF}$ : 74.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.828+/-0.865  $\chi^2/\text{NDF}$ : 34.2/15

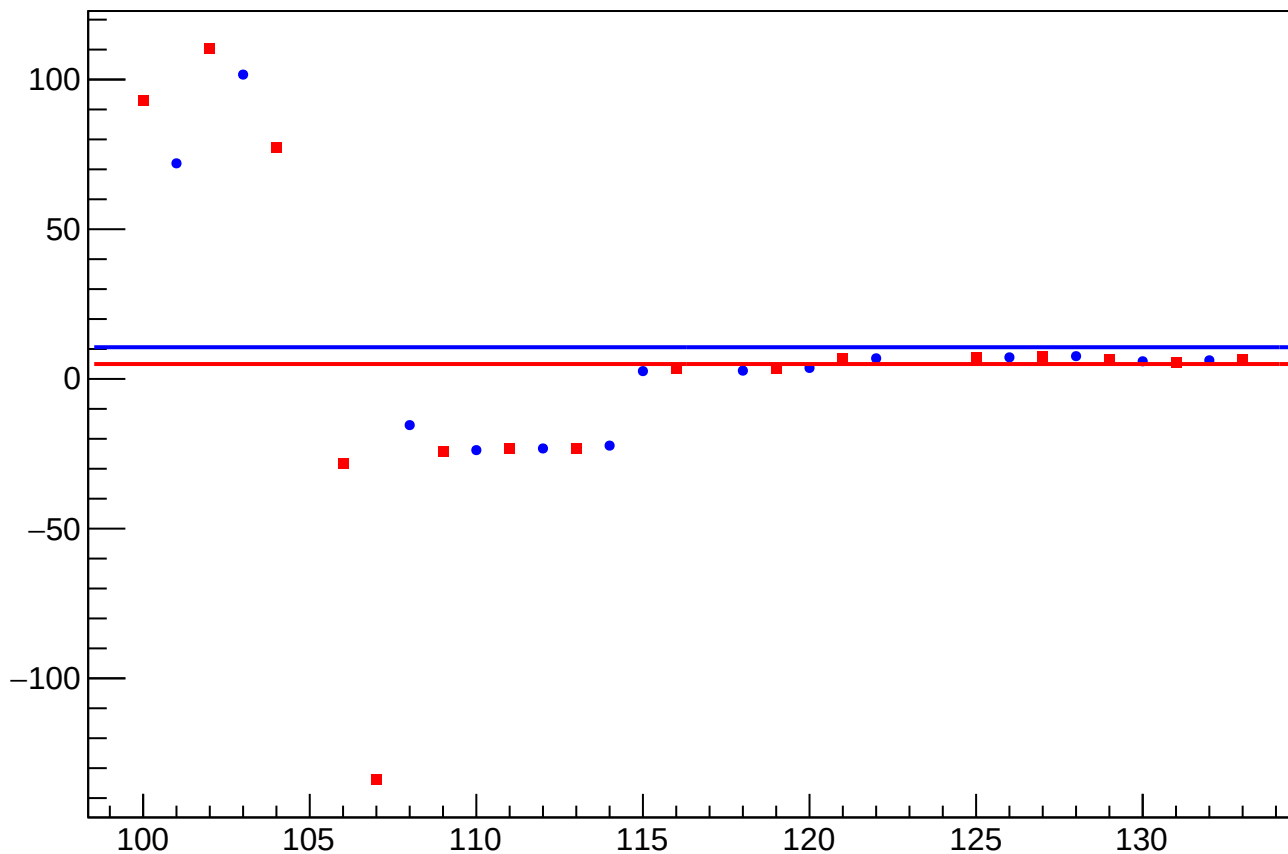
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.618+/-0.625  $\chi^2/\text{NDF}$ : 109.1/29

- 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: 10.590+/-0.064  $\chi^2/\text{NDF}$ : 309375.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.974+/-0.061  $\chi^2/\text{NDF}$ : 446692.1/15

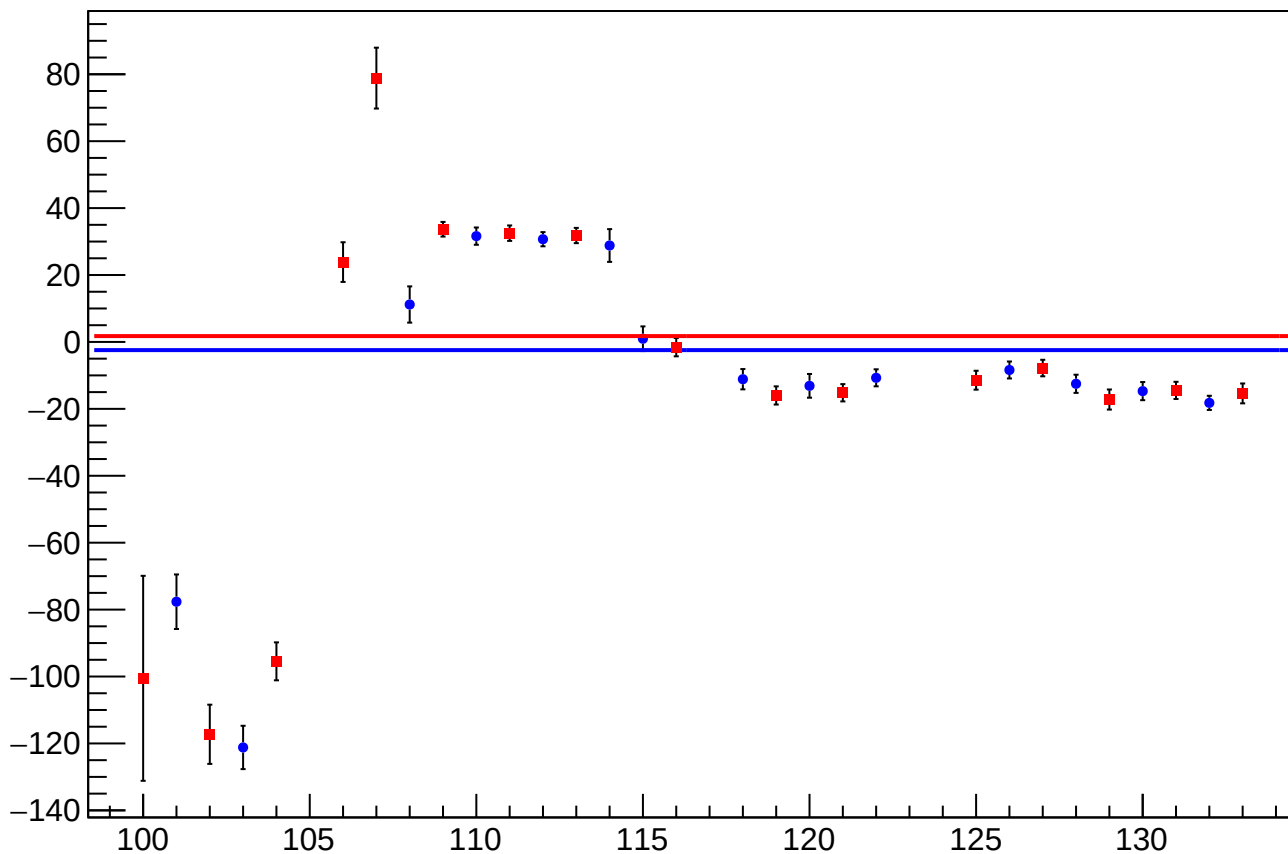
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.632+/-0.044  $\chi^2/\text{NDF}$ : 760133.3/29

- 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: -2.444+/-0.802  $\chi^2/\text{NDF}$ : 1011.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.747+/-0.754  $\chi^2/\text{NDF}$ : 1372.4/15

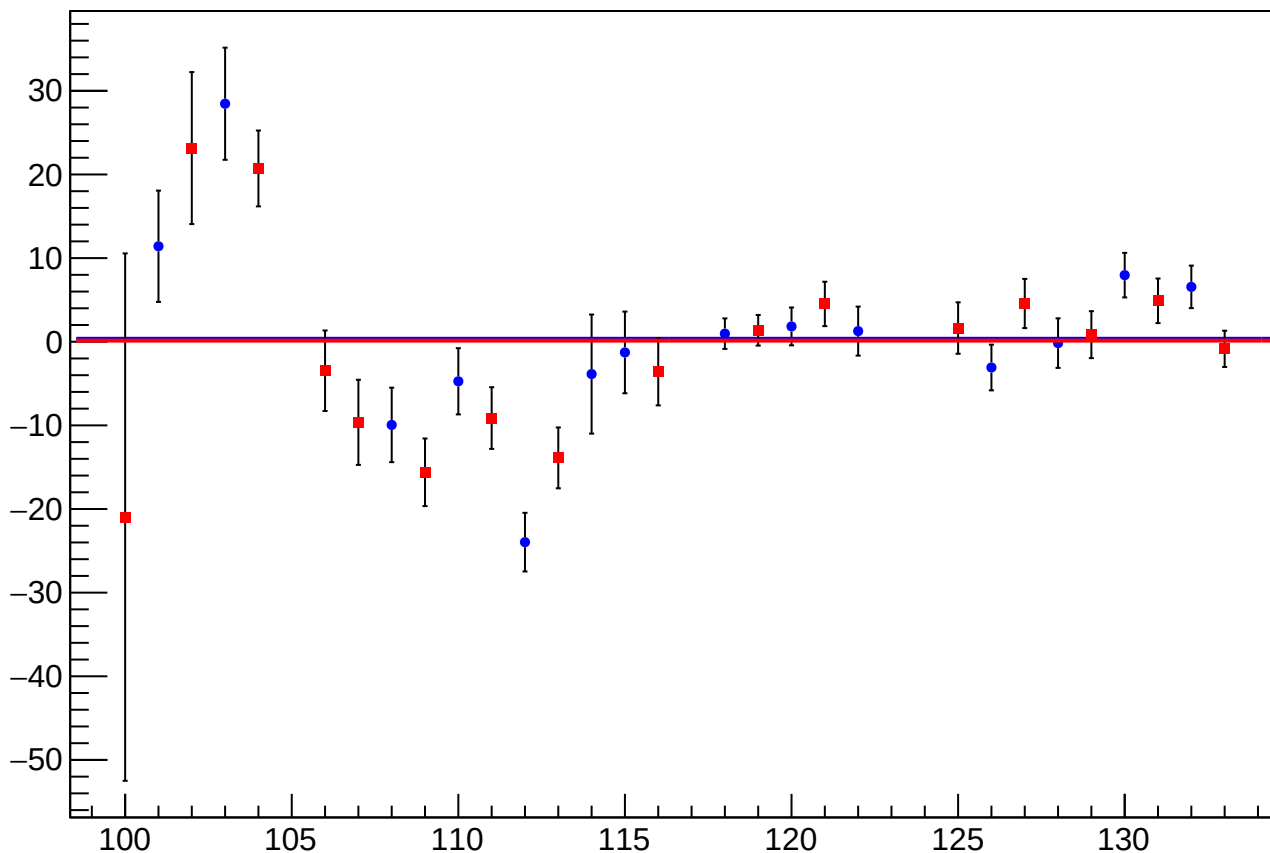
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.219+/-0.549  $\chi^2/\text{NDF}$ : 2398.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.352 $\pm$ 0.828  $\chi^2$ /NDF: 92.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.136 $\pm$ 0.801  $\chi^2$ /NDF: 78.1/15

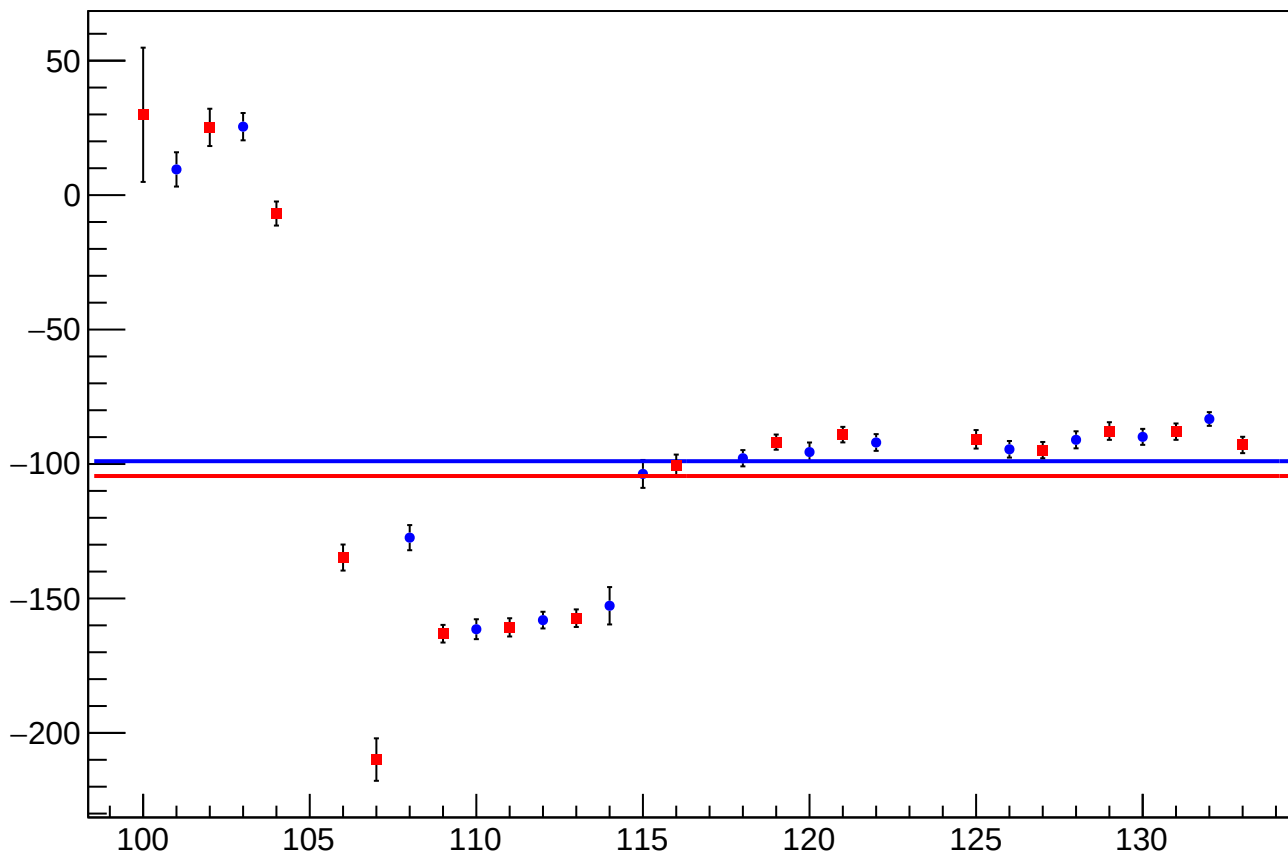
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.240 $\pm$ 0.576  $\chi^2$ /NDF: 170.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -98.949 $\pm$ 0.950  $\chi^2$ /NDF: 1697.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -104.462 $\pm$ 0.906  $\chi^2$ /NDF: 2073.7/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

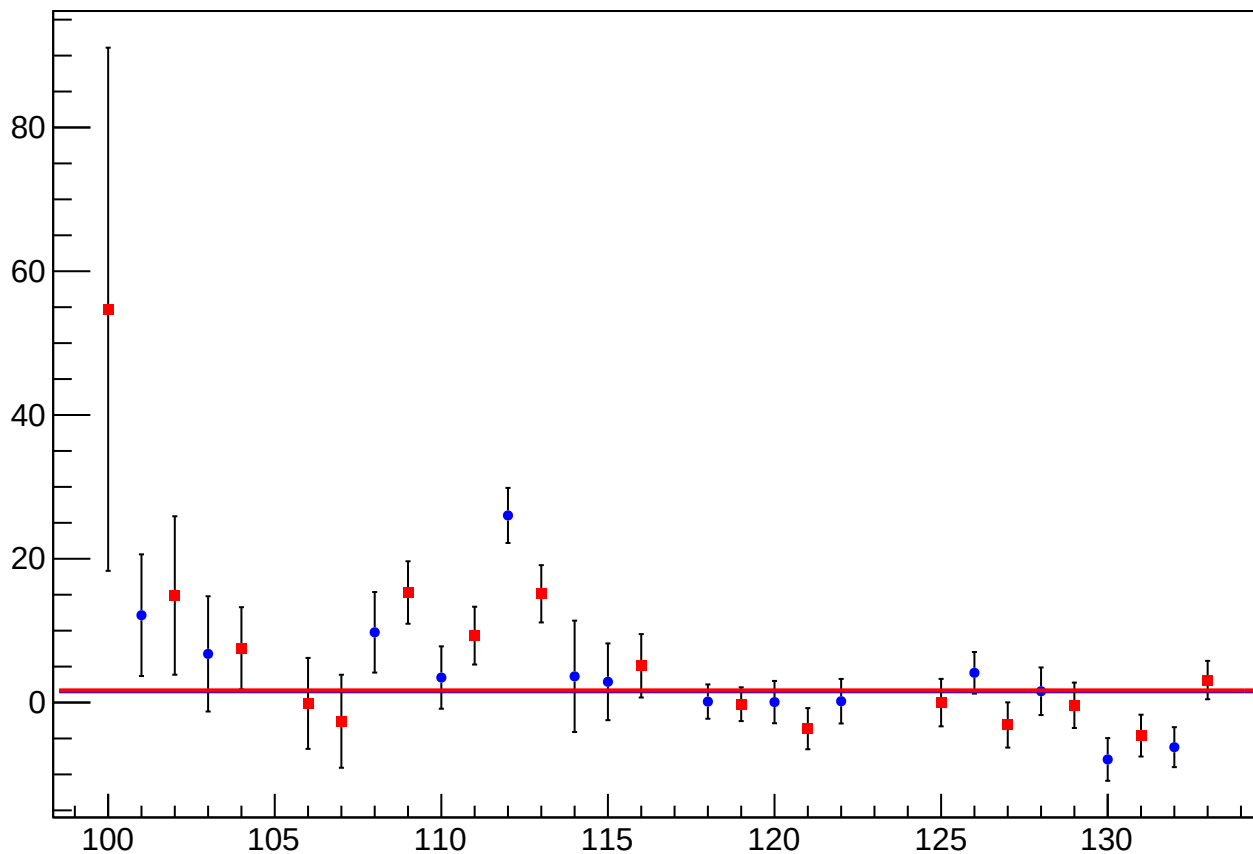
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -101.837 $\pm$ 0.656  $\chi^2$ /NDF: 3788.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 1.564 $\pm$ 0.961  $\chi^2$ /NDF: 64.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.693 $\pm$ 0.924  $\chi^2$ /NDF: 42.7/15

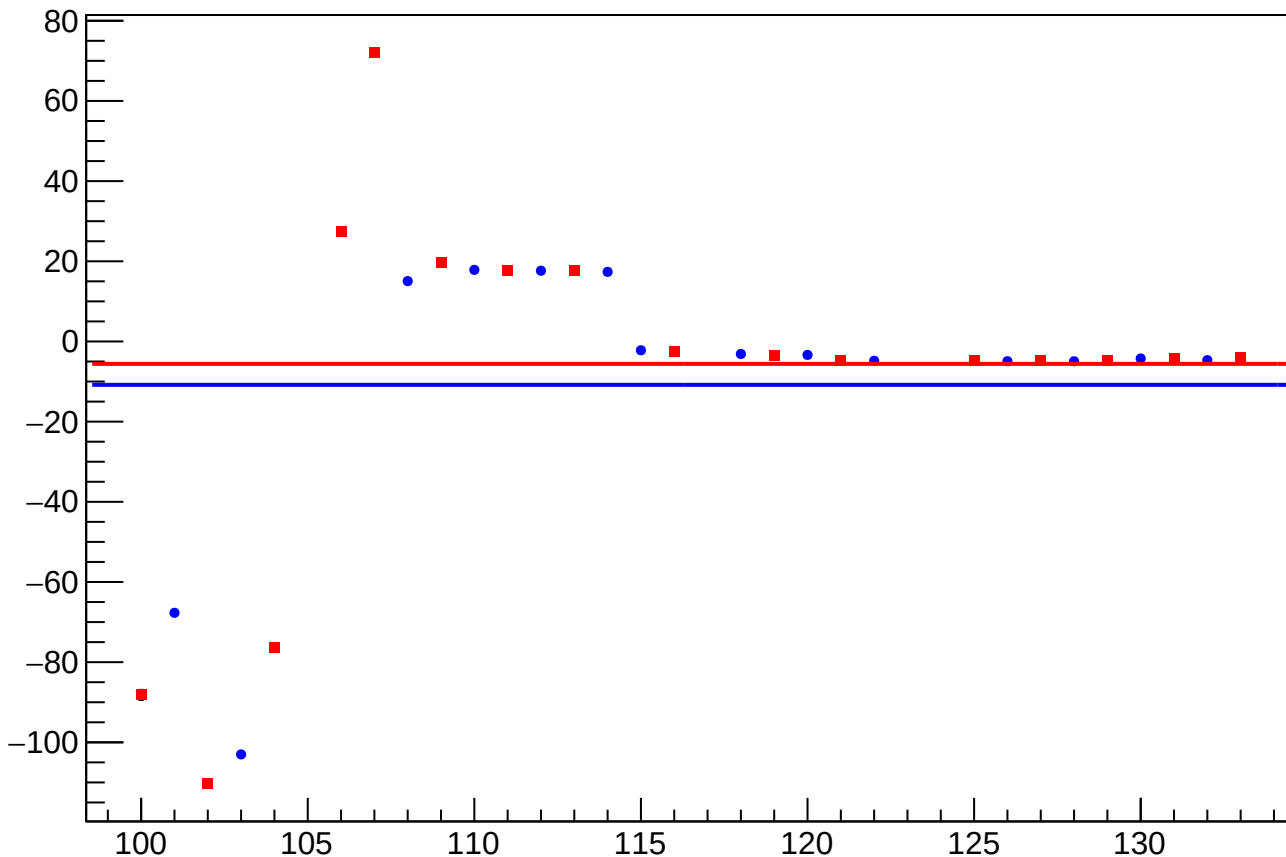
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.631 $\pm$ 0.666  $\chi^2$ /NDF: 107.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -10.813 $\pm$ 0.068  $\chi^2$ /NDF: 258719.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -5.585 $\pm$ 0.065  $\chi^2$ /NDF: 338951.8/15

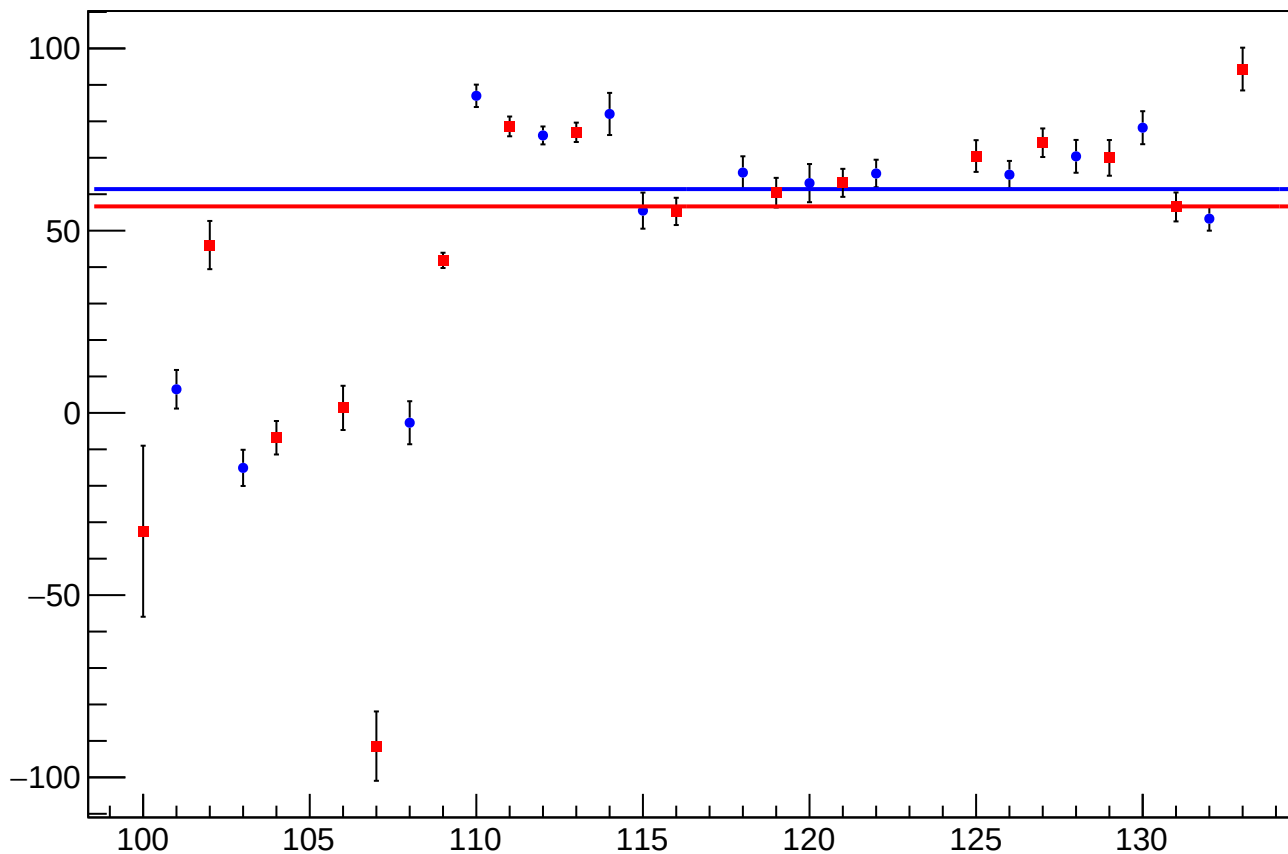
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -8.046 $\pm$ 0.047  $\chi^2$ /NDF: 600755.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 61.404+/-1.076  $\chi^2$ /NDF: 609.8/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 56.658+/-0.968  $\chi^2$ /NDF: 789.4/15

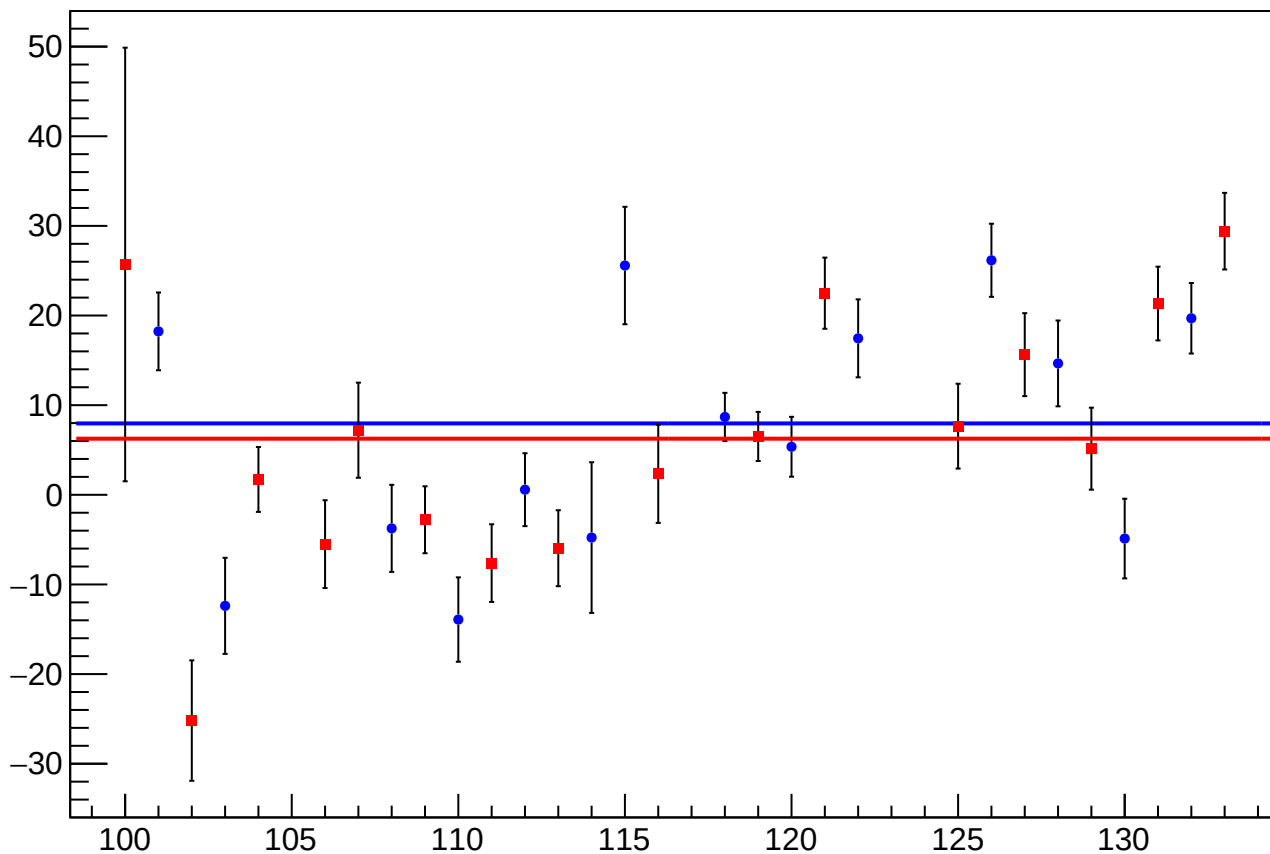
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 58.781+/-0.719  $\chi^2$ /NDF: 1410.0/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 7.963+/-1.137  $\chi^2/\text{NDF}$ : 104.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6.264+/-1.090  $\chi^2/\text{NDF}$ : 118.7/15

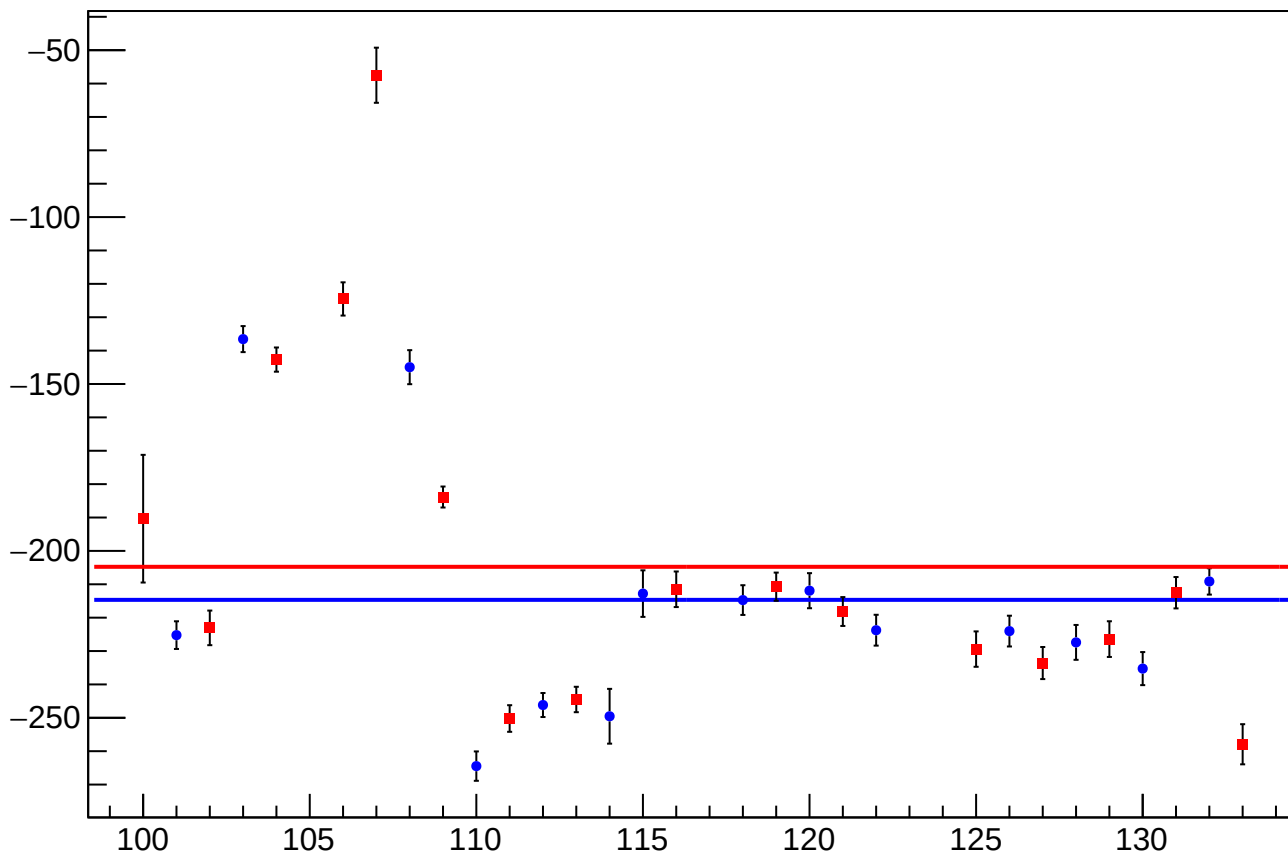
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.078+/-0.787  $\chi^2/\text{NDF}$ : 224.6/29

- 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: -214.665+/-1.241  $\chi^2/\text{NDF}$ : 851.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -204.764+/-1.166  $\chi^2/\text{NDF}$ : 1335.5/15

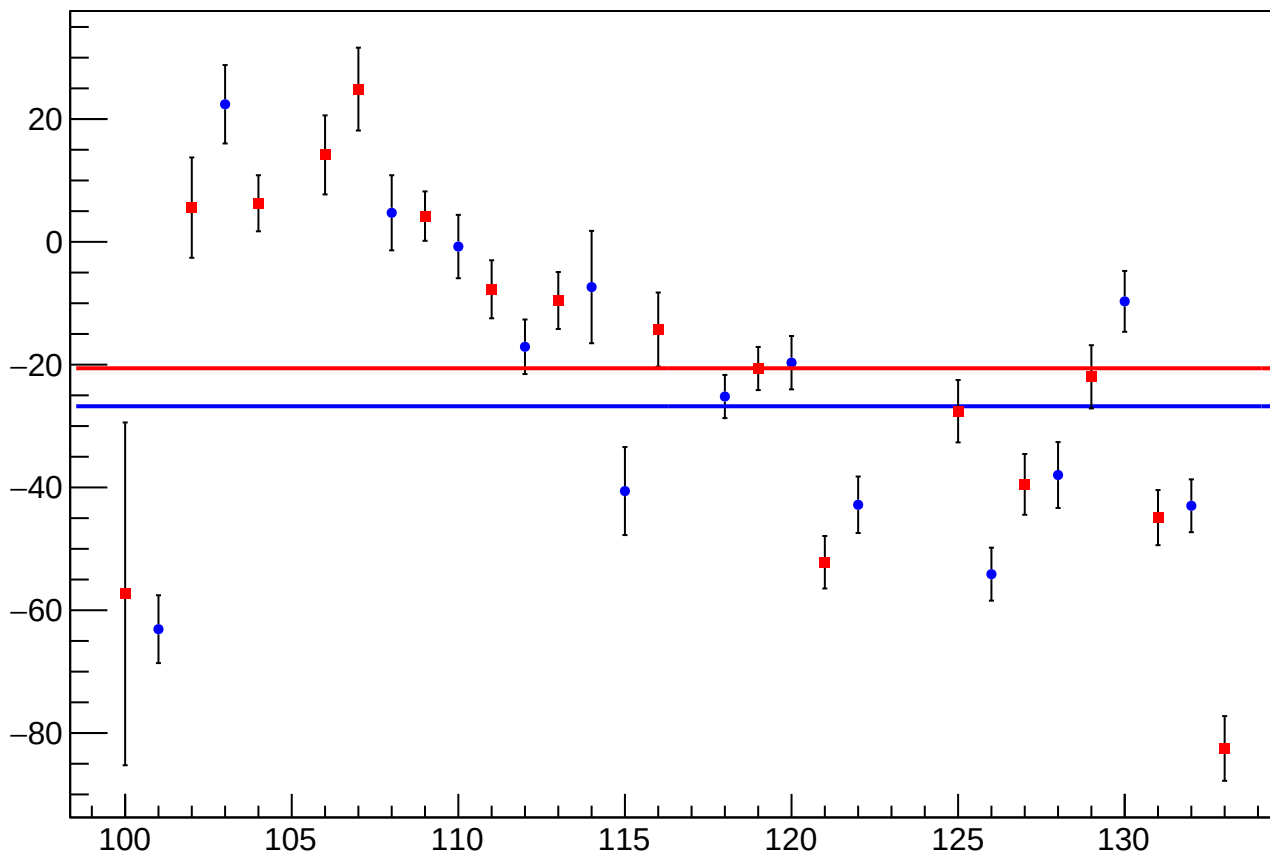
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -209.404+/-0.850  $\chi^2/\text{NDF}$ : 2220.9/29

- 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: -26.778 $\pm$ 1.327  $\chi^2$ /NDF: 253.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -20.591 $\pm$ 1.260  $\chi^2$ /NDF: 411.9/15

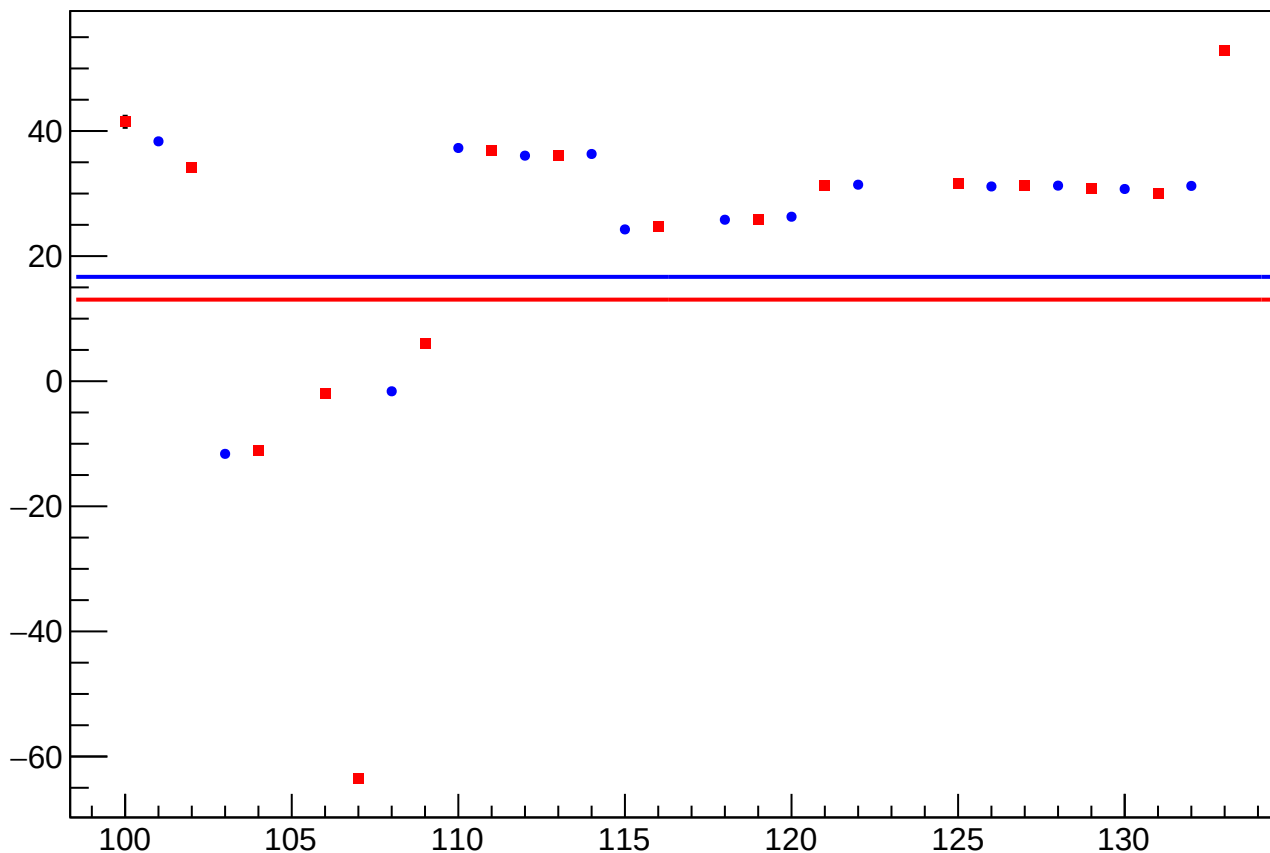
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -23.525 $\pm$ 0.914  $\chi^2$ /NDF: 676.4/29

- 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: 16.683+/-0.081  $\chi^2/\text{NDF}$ : 63613.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13.043+/-0.075  $\chi^2/\text{NDF}$ : 119781.7/15

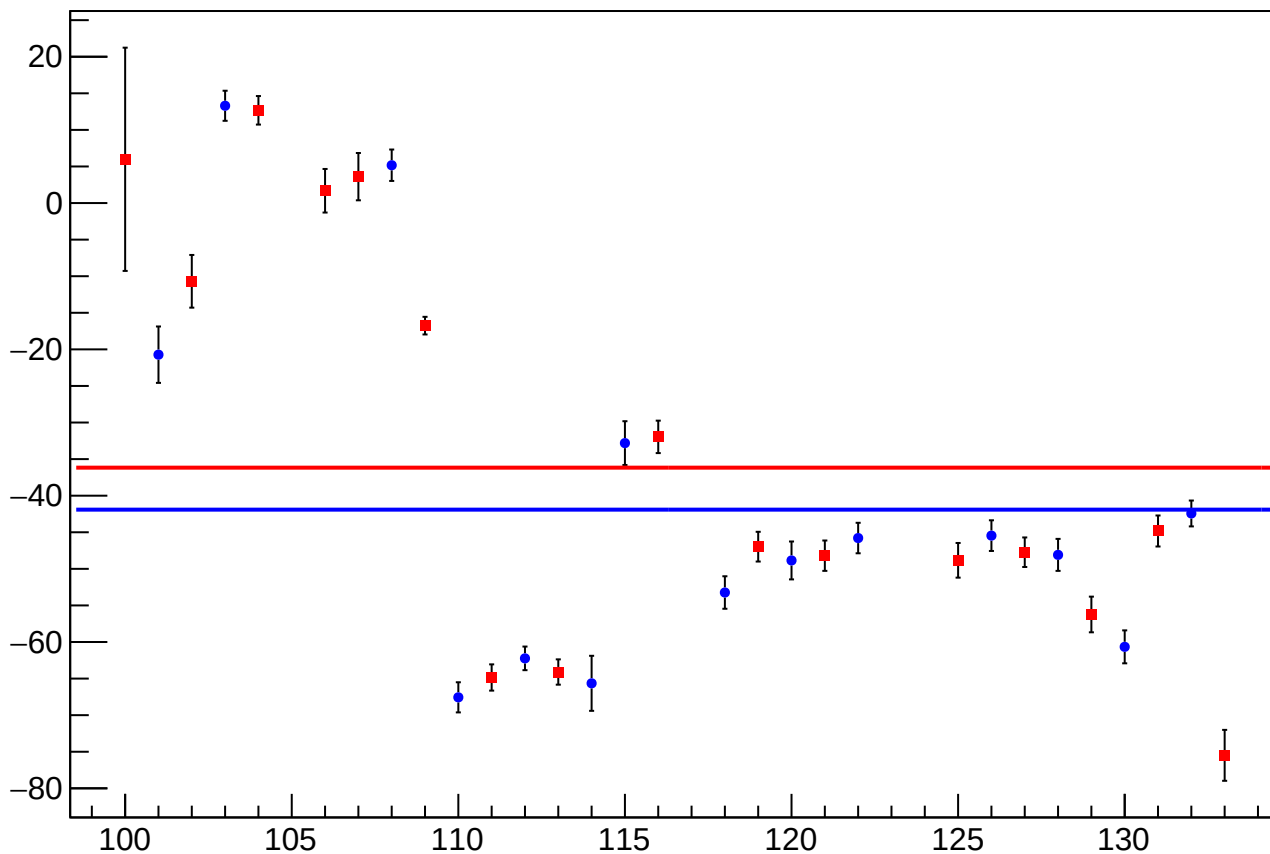
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14.732+/-0.055  $\chi^2/\text{NDF}$ : 184487.8/29

- 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: -41.908 $\pm$ 0.591  $\chi^2$ /NDF: 1712.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -36.169 $\pm$ 0.538  $\chi^2$ /NDF: 2112.7/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

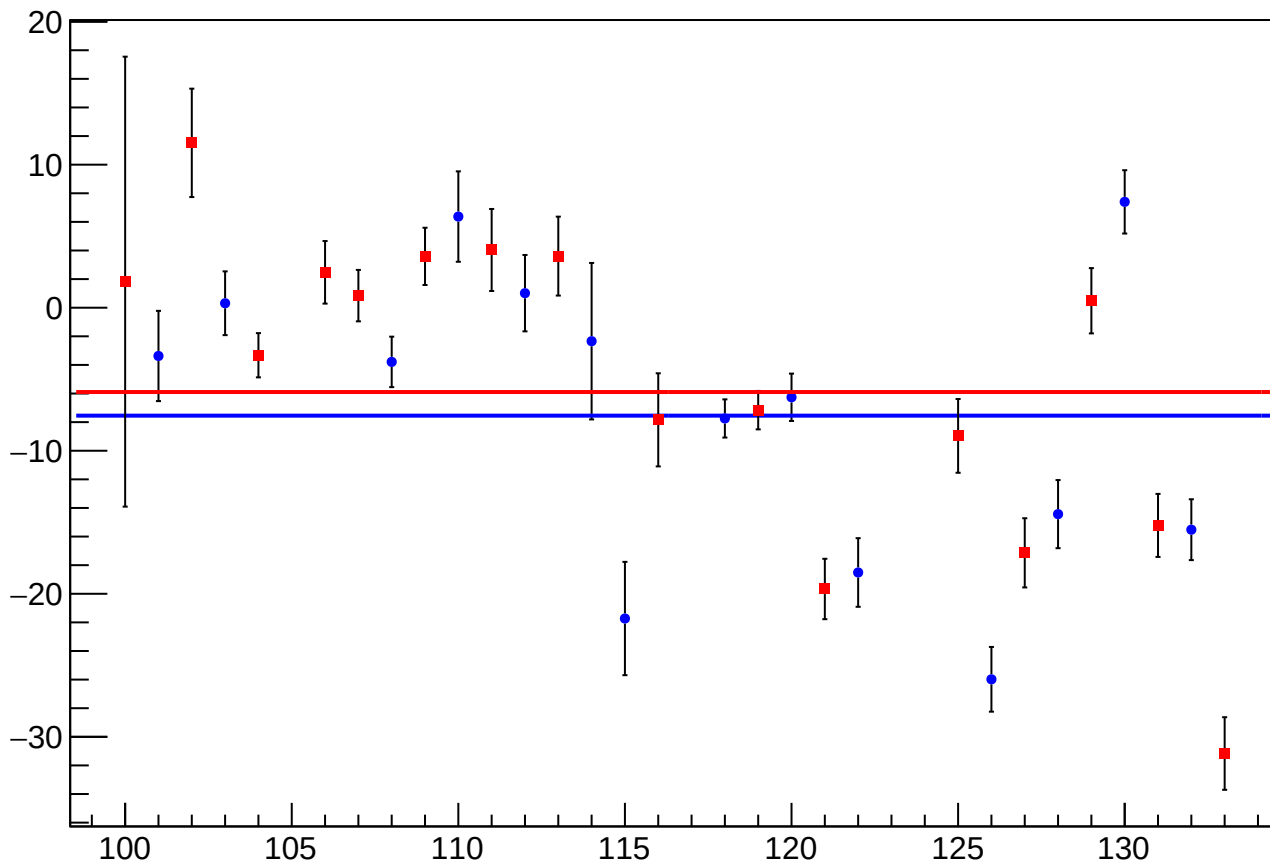
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -38.765 $\pm$ 0.398  $\chi^2$ /NDF: 3877.0/29

- 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: -7.546+/-0.592  $\chi^2/\text{NDF}$ : 218.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.895+/-0.554  $\chi^2/\text{NDF}$ : 290.9/15

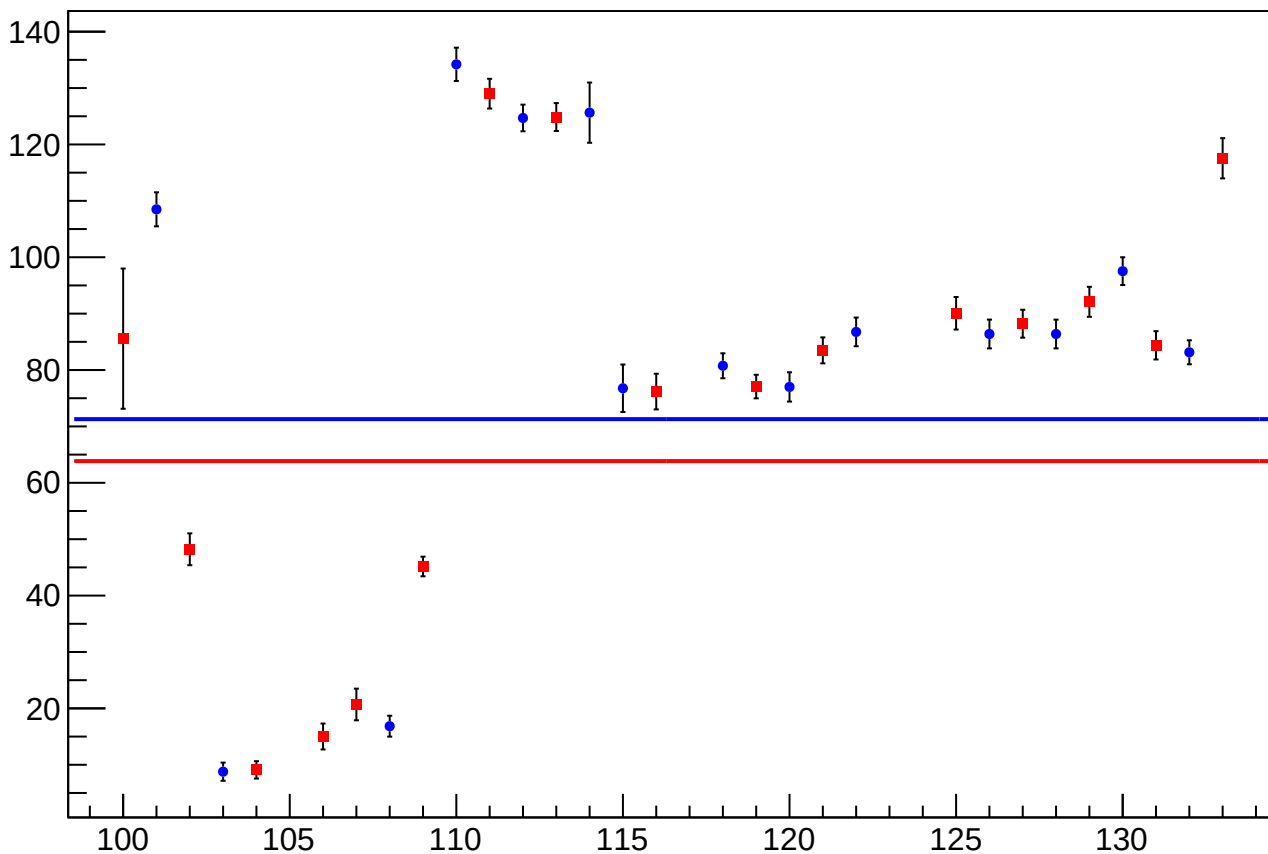
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.666+/-0.404  $\chi^2/\text{NDF}$ : 513.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 71.291+/-0.650  $\chi^2$ /NDF: 3861.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 63.851+/-0.610  $\chi^2$ /NDF: 4034.7/15

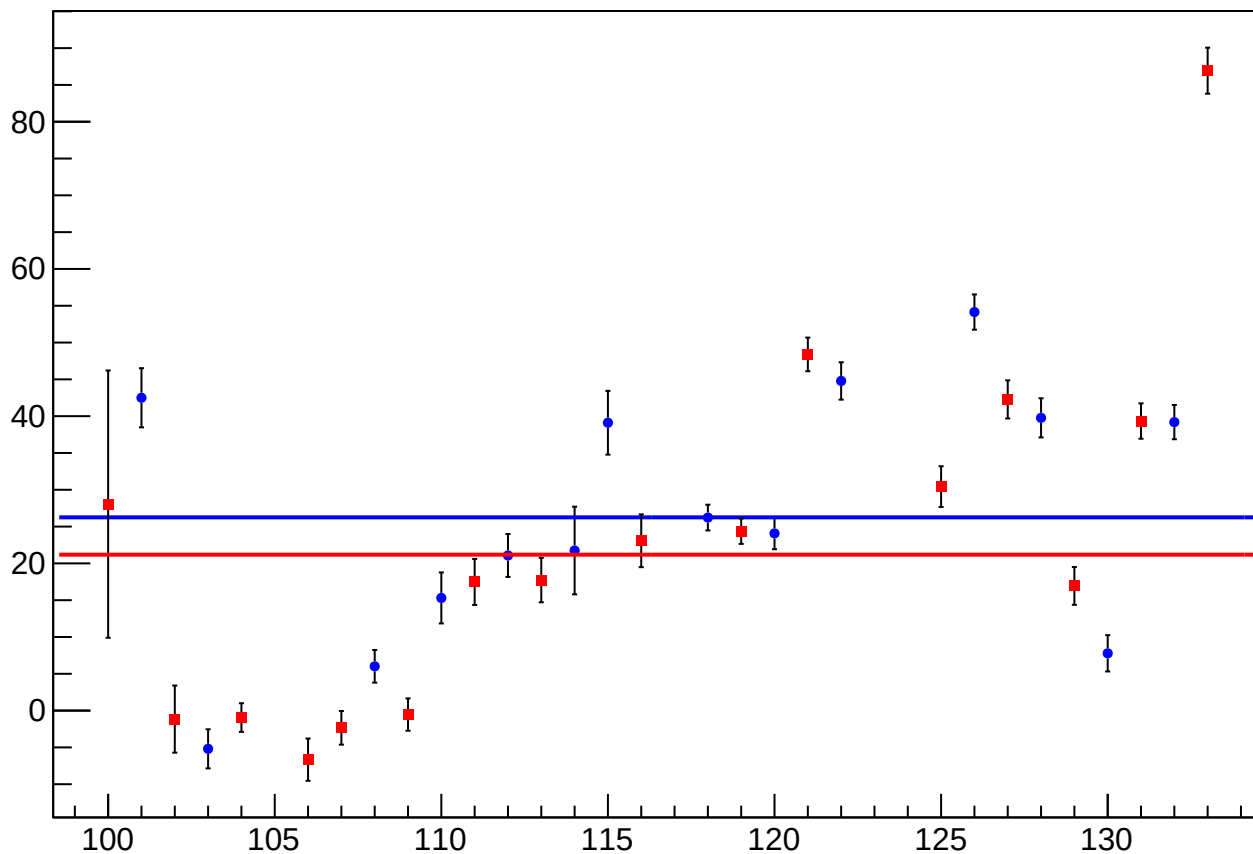
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 67.338+/-0.445  $\chi^2$ /NDF: 7965.7/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 26.254+/-0.698  $\chi^2/\text{NDF}$ : 565.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21.184+/-0.651  $\chi^2/\text{NDF}$ : 1179.1/15

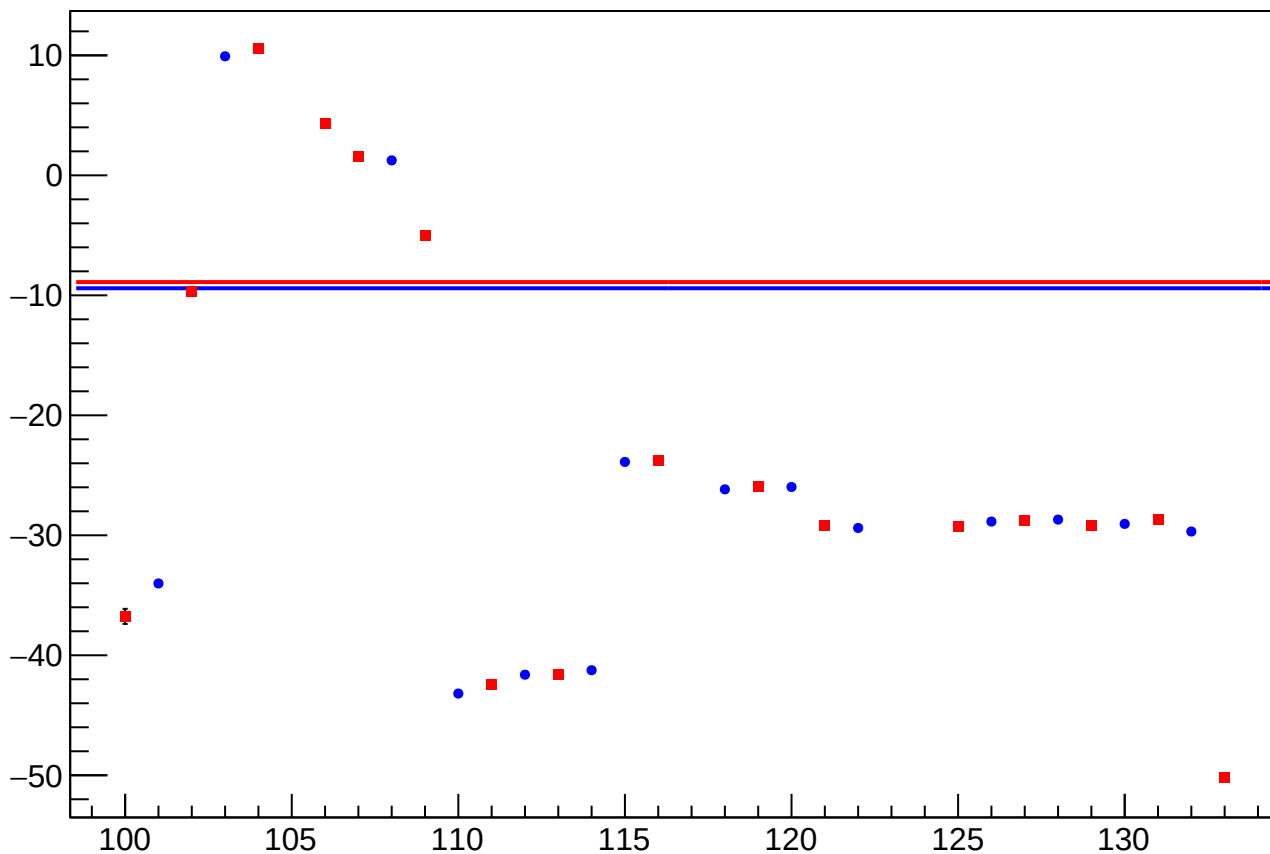
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.543+/-0.476  $\chi^2/\text{NDF}$ : 1772.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -9.412 $\pm$ 0.038  $\chi^2$ /NDF: 245517.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.896 $\pm$ 0.037  $\chi^2$ /NDF: 237984.4/15

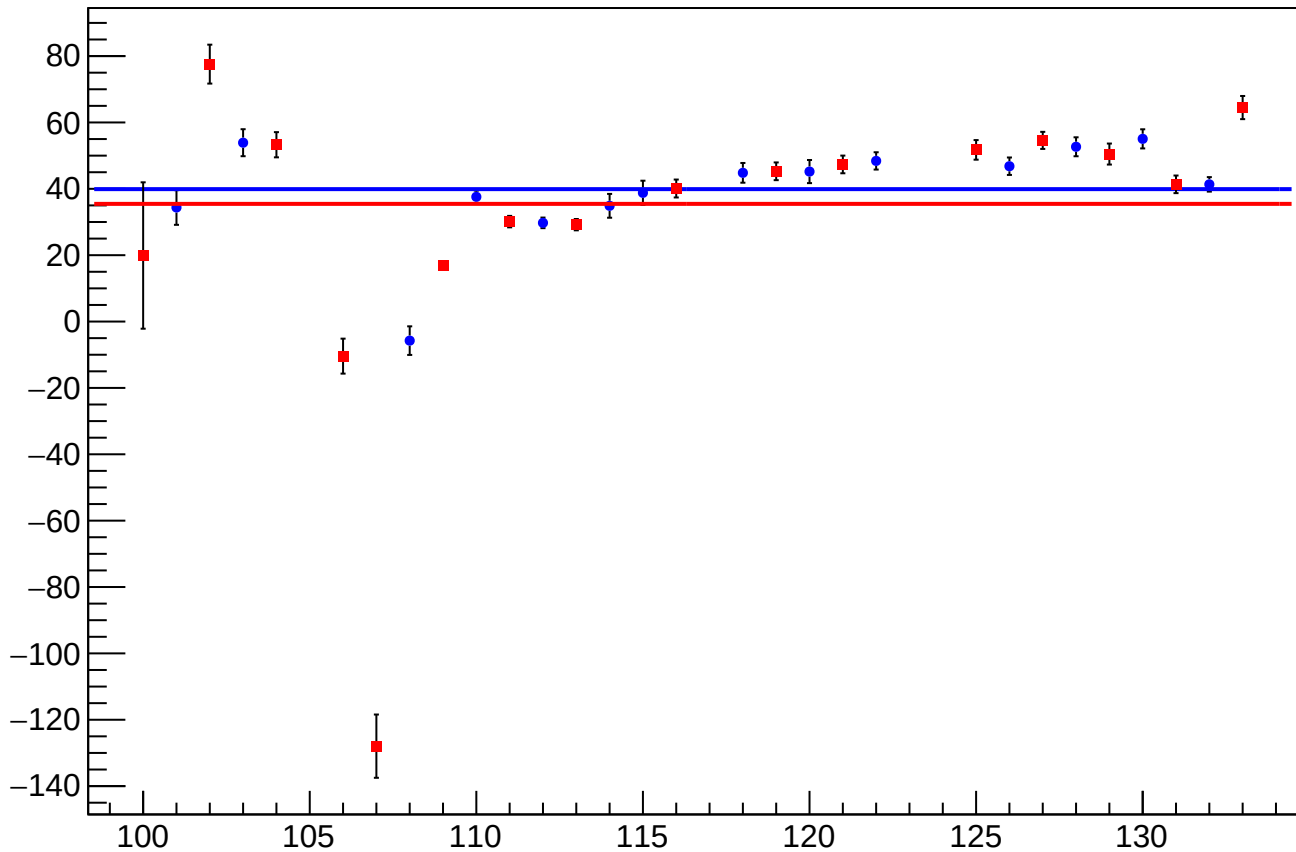
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9.146 $\pm$ 0.027  $\chi^2$ /NDF: 483594.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 39.906 $\pm$ 0.722  $\chi^2$ /NDF: 240.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 35.464 $\pm$ 0.663  $\chi^2$ /NDF: 836.7/15

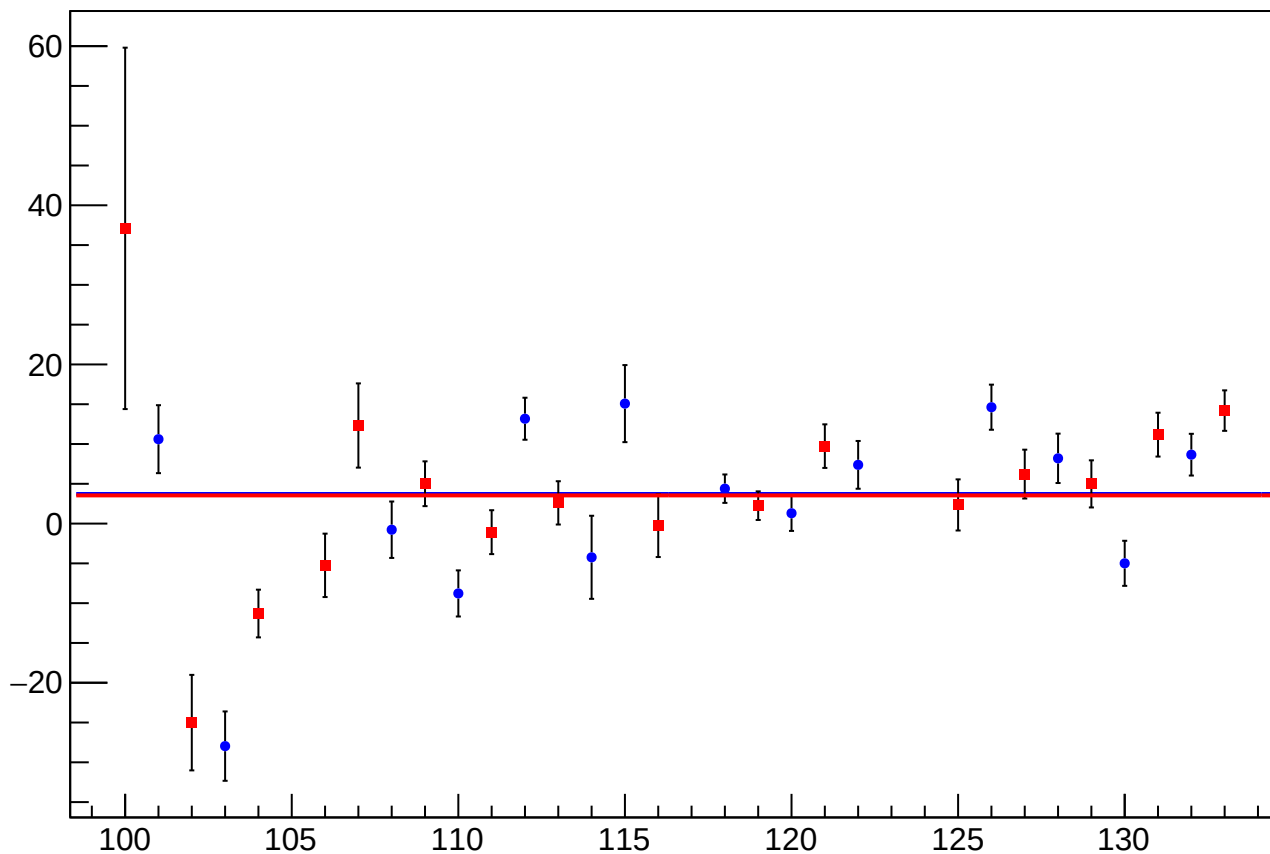
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 37.494 $\pm$ 0.488  $\chi^2$ /NDF: 1097.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 3.717+/-0.778  $\chi^2/\text{NDF}$ : 129.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.544+/-0.758  $\chi^2/\text{NDF}$ : 93.1/15

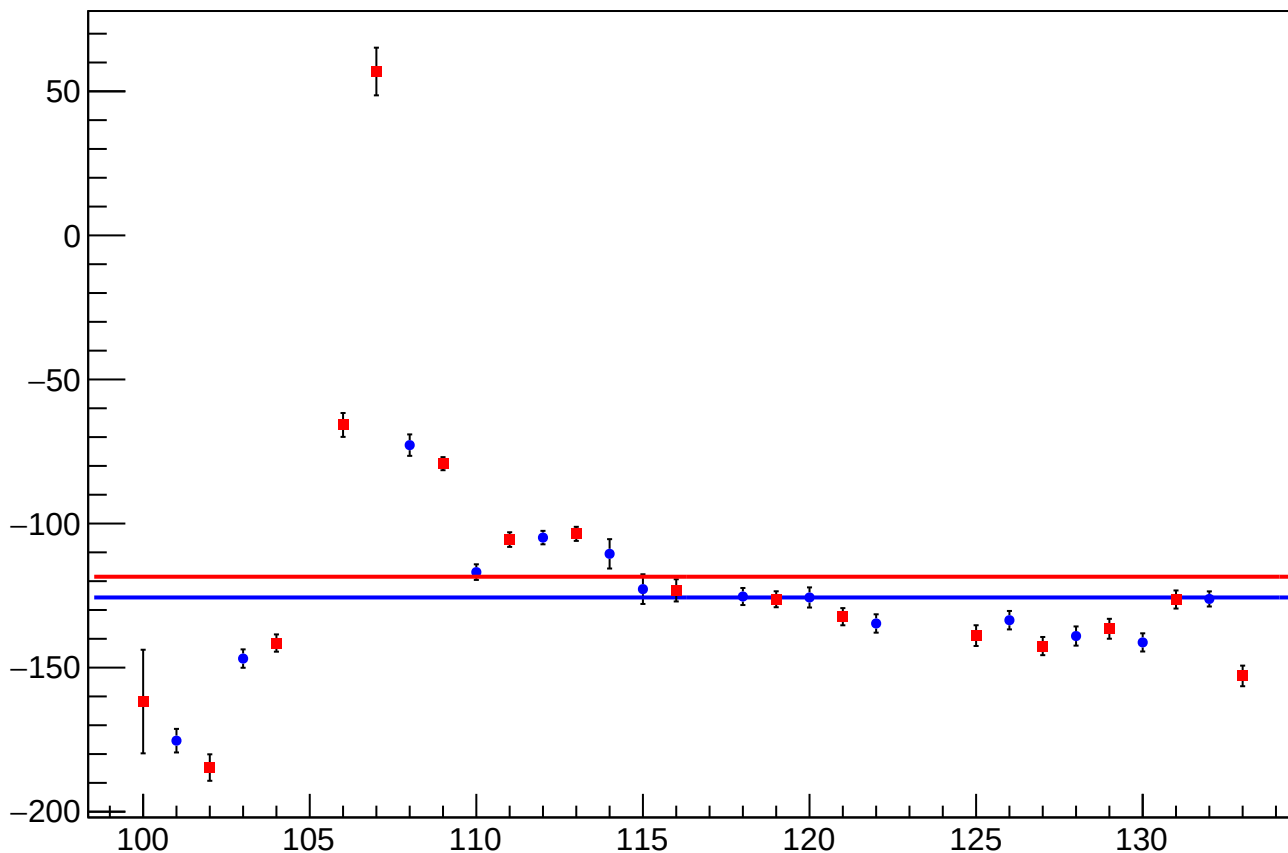
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.628+/-0.543  $\chi^2/\text{NDF}$ : 222.1/29

- 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: -125.654 $\pm$ 0.859  $\chi^2$ /NDF: 547.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -118.457 $\pm$ 0.816  $\chi^2$ /NDF: 1492.5/15

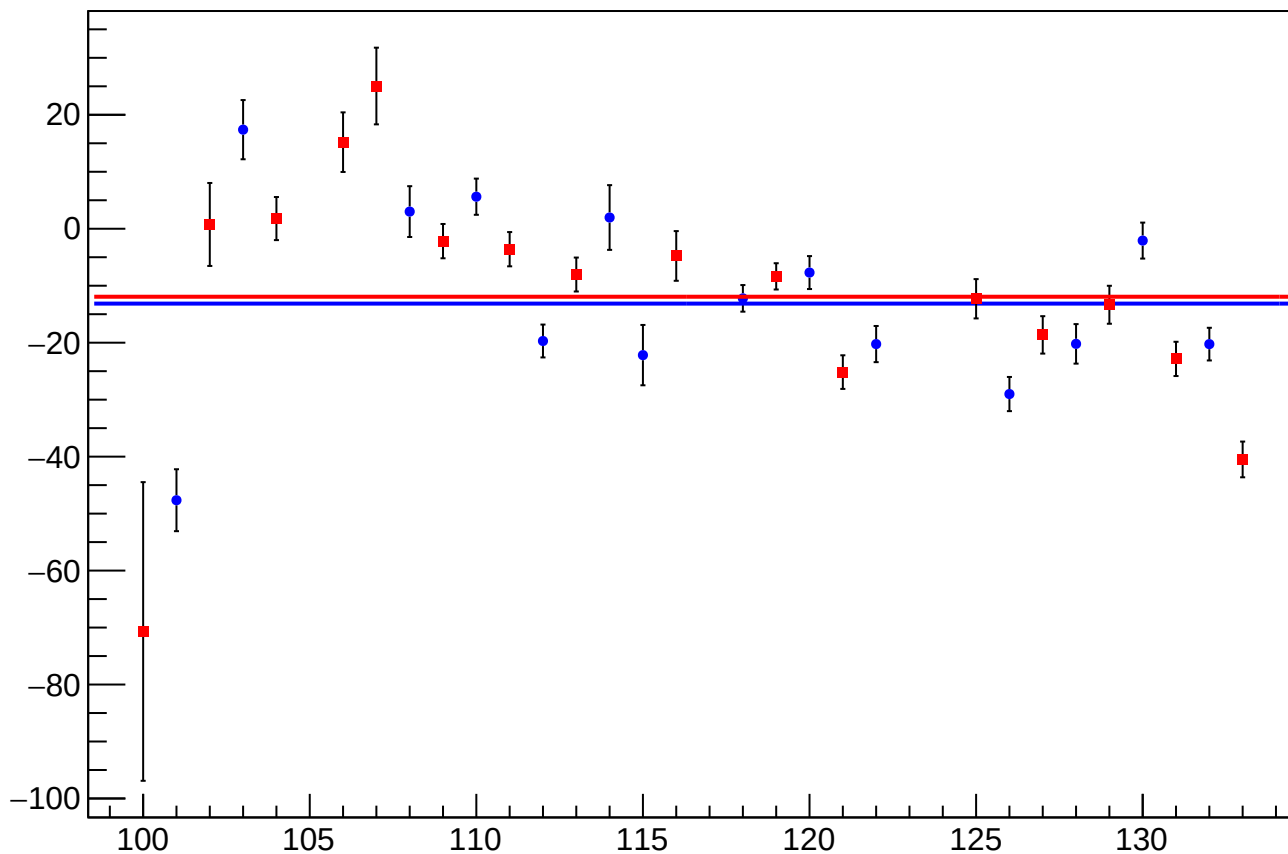
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -121.868 $\pm$ 0.592  $\chi^2$ /NDF: 2076.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -13.140 $\pm$ 0.903  $\chi^2$ /NDF: 197.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -11.933 $\pm$ 0.871  $\chi^2$ /NDF: 223.9/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

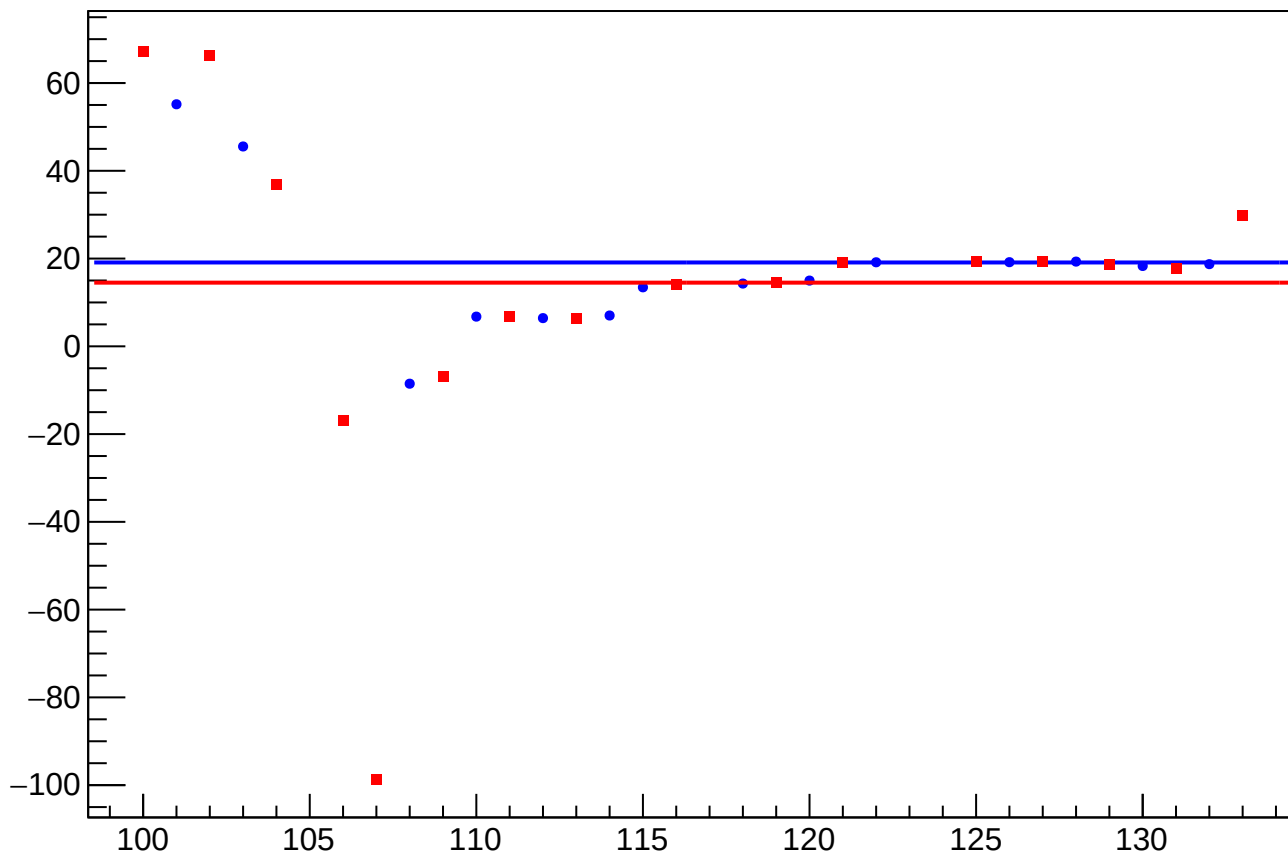
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -12.515 $\pm$ 0.627  $\chi^2$ /NDF: 422.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 19.110+/-0.058  $\chi^2/\text{NDF}$ : 104038.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14.511+/-0.056  $\chi^2/\text{NDF}$ : 256836.8/15

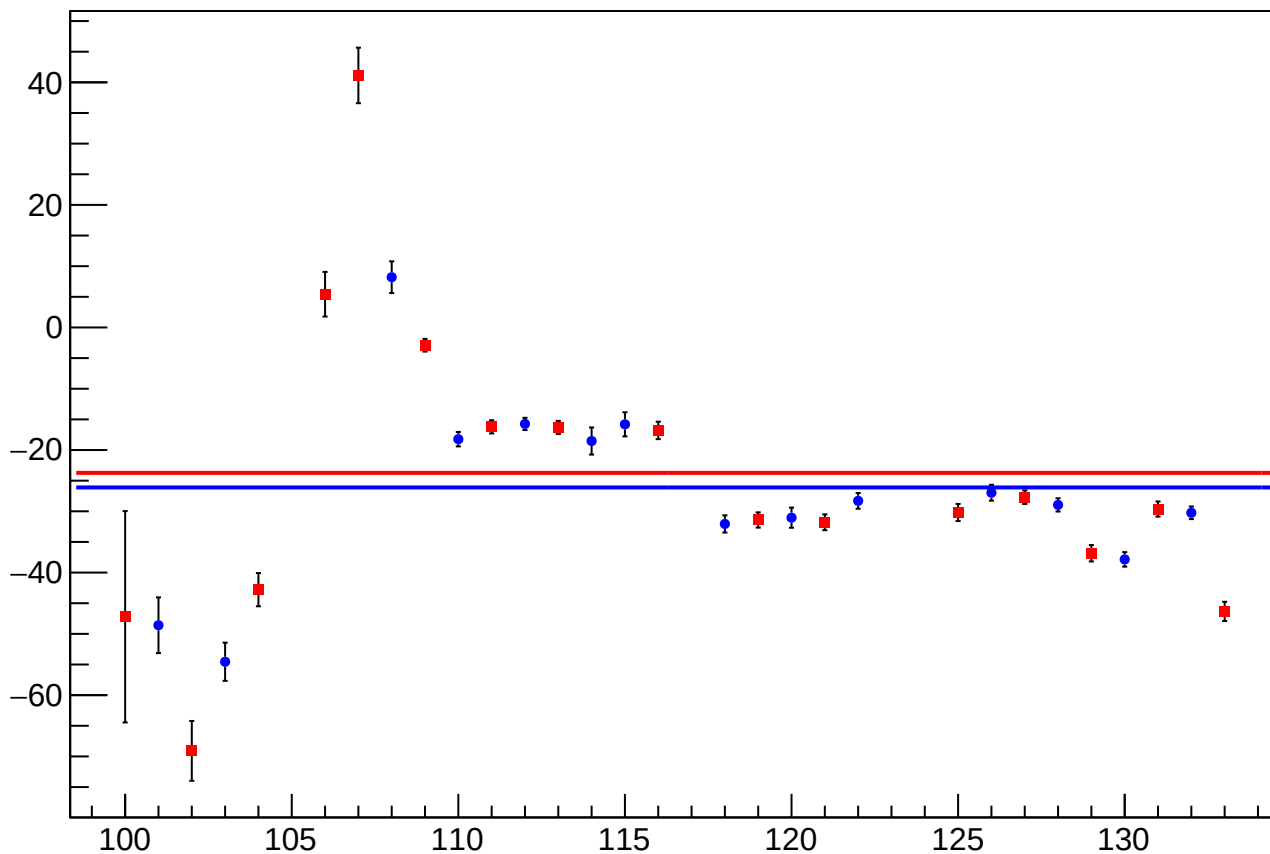
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.719+/-0.040  $\chi^2/\text{NDF}$ : 364098.8/29

- 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:  $-26.107 \pm 0.376$   $\chi^2/\text{NDF}$ : 627.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-23.725 \pm 0.361$   $\chi^2/\text{NDF}$ : 1370.1/15

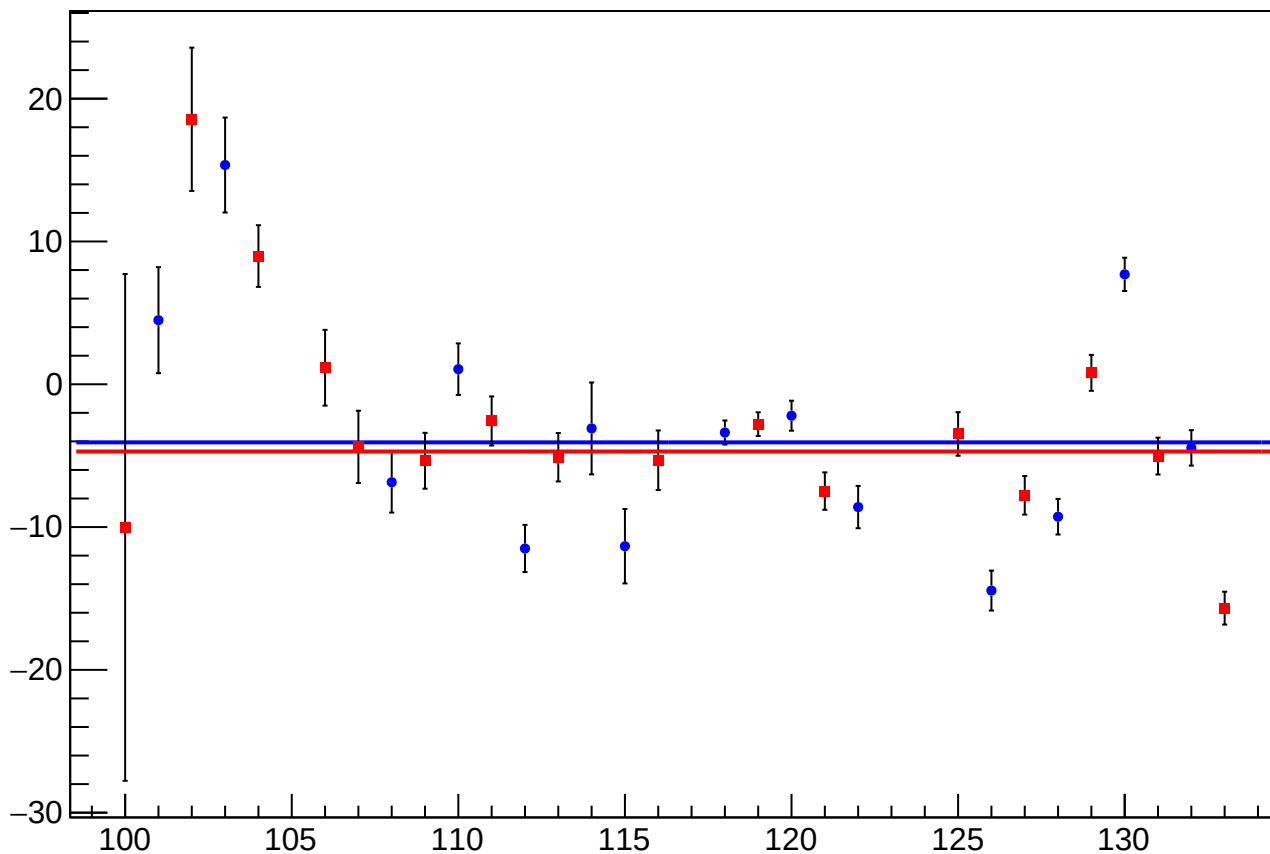
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-24.869 \pm 0.260$   $\chi^2/\text{NDF}$ : 2018.2/29

- 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:  $-4.067 \pm 0.389$   $\chi^2/\text{NDF}$ : 265.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.708 \pm 0.386$   $\chi^2/\text{NDF}$ : 194.1/15

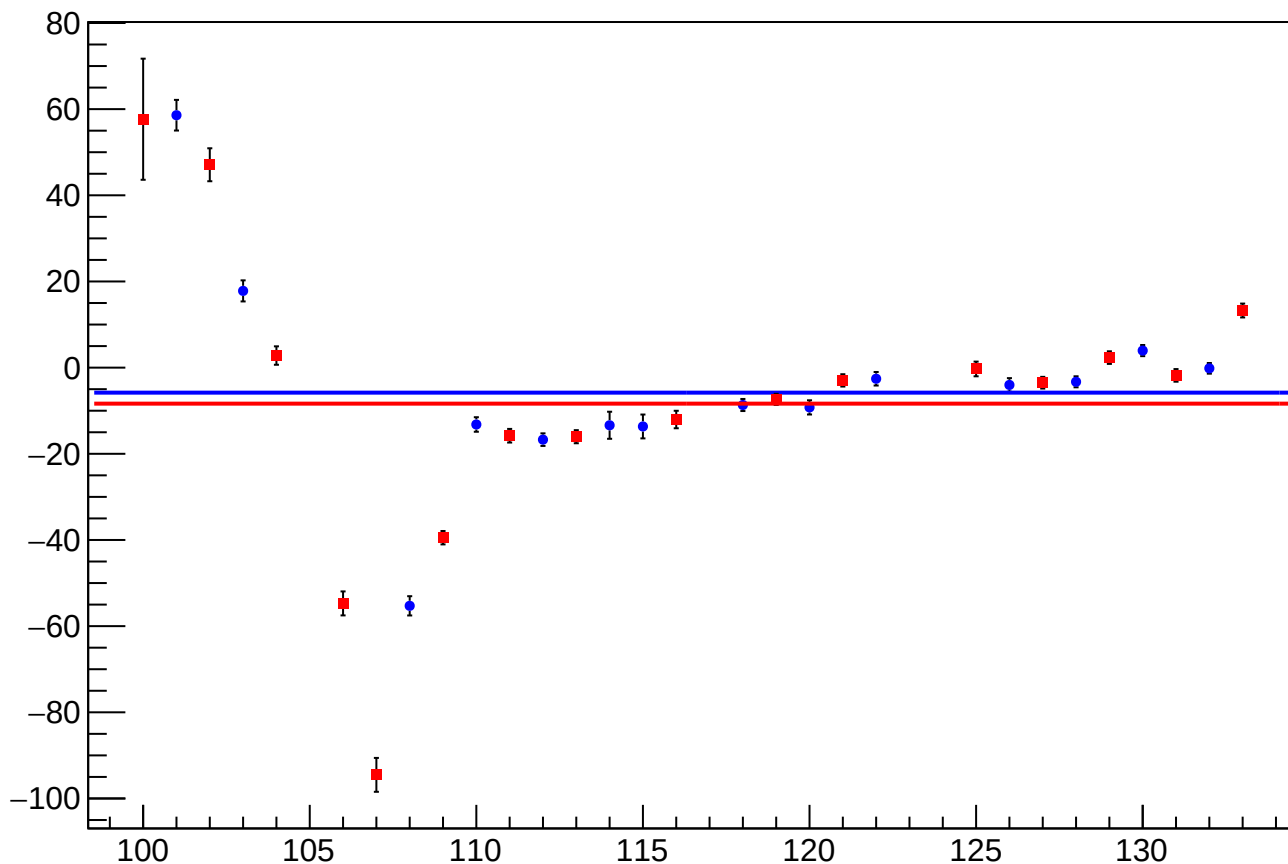
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-4.390 \pm 0.274$   $\chi^2/\text{NDF}$ : 460.5/29

- 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: -5.804+/-0.445  $\chi^2/\text{NDF}$ : 1095.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -8.358+/-0.435  $\chi^2/\text{NDF}$ : 1771.7/15

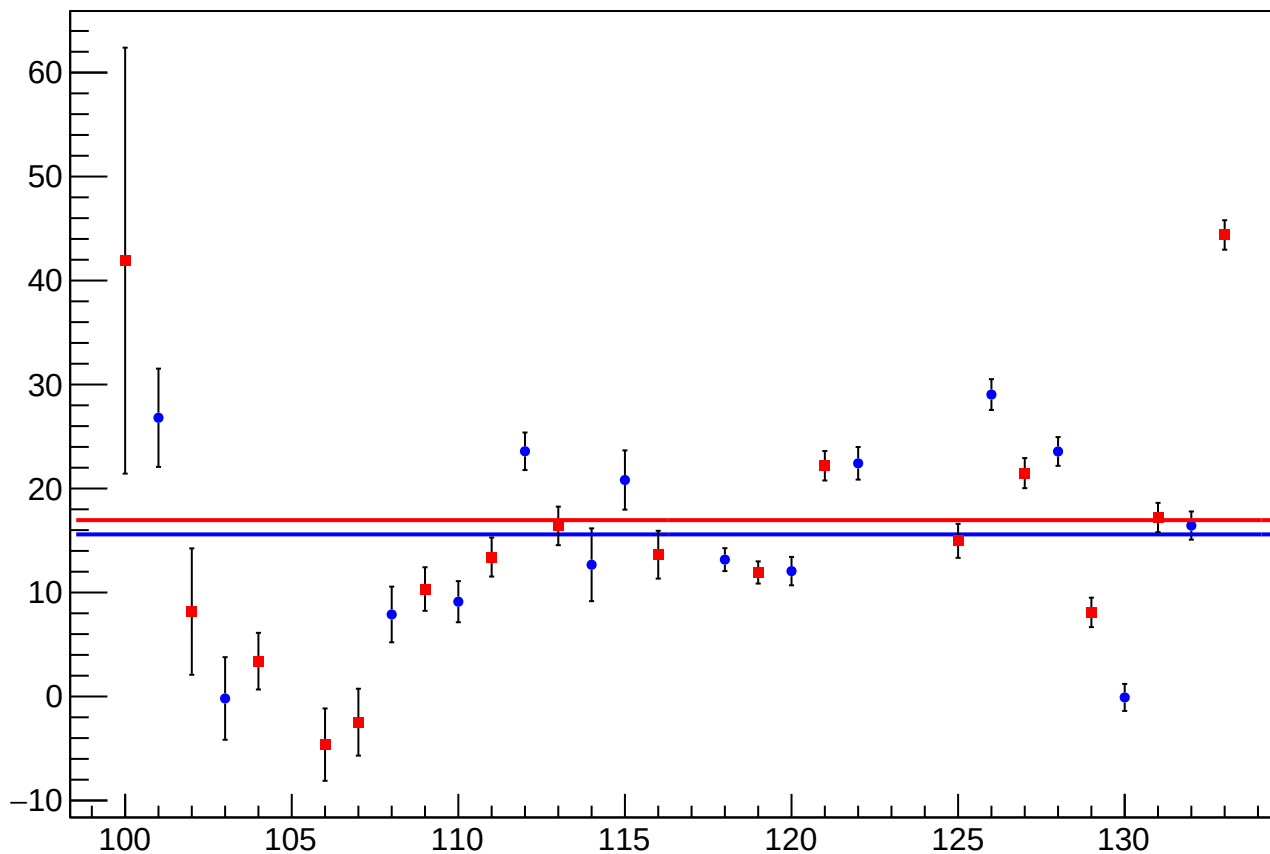
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.109+/-0.311  $\chi^2/\text{NDF}$ : 2883.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 15.588+/-0.452  $\chi^2/\text{NDF}$ : 356.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16.960+/-0.444  $\chi^2/\text{NDF}$ : 581.0/15

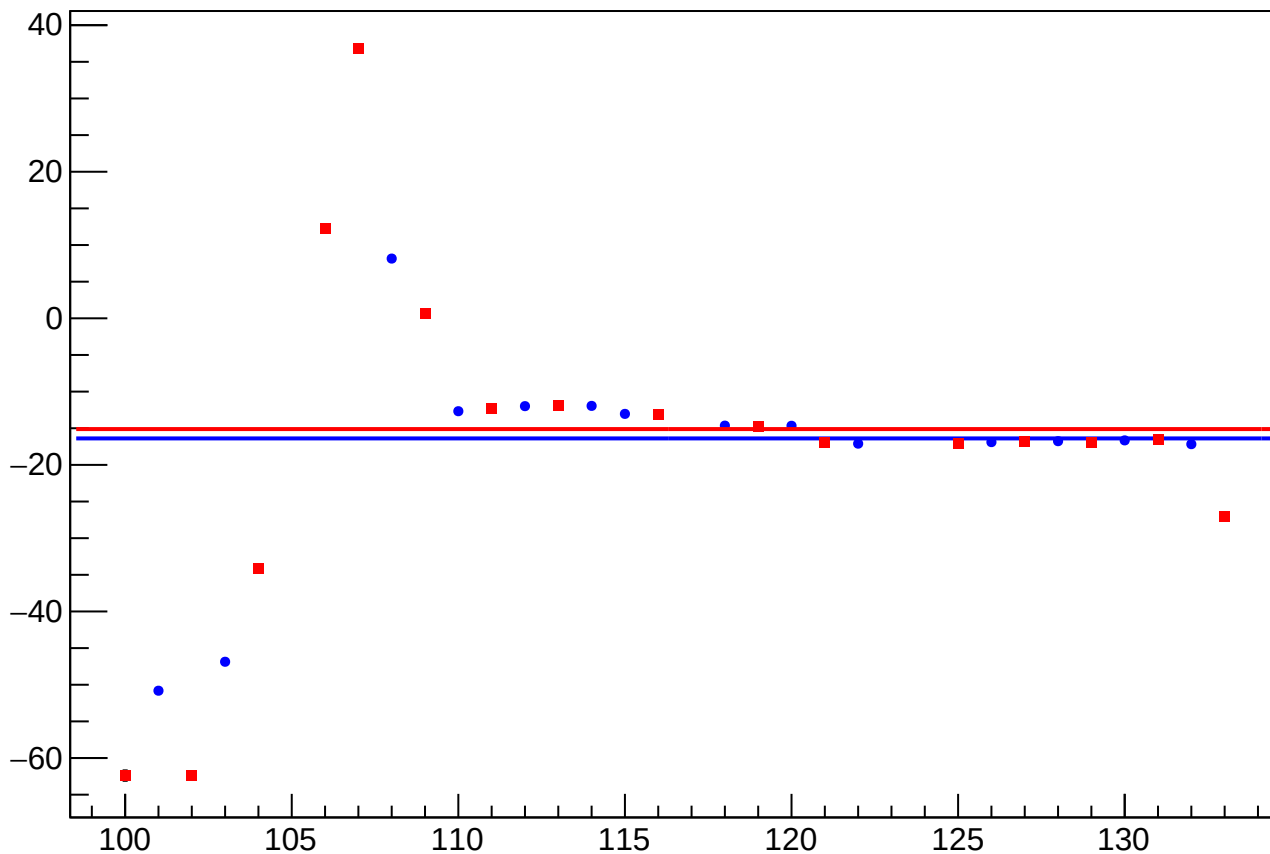
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.285+/-0.317  $\chi^2/\text{NDF}$ : 942.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -16.388 $\pm$ 0.032  $\chi^2$ /NDF: 190655.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -15.113 $\pm$ 0.032  $\chi^2$ /NDF: 292478.3/15

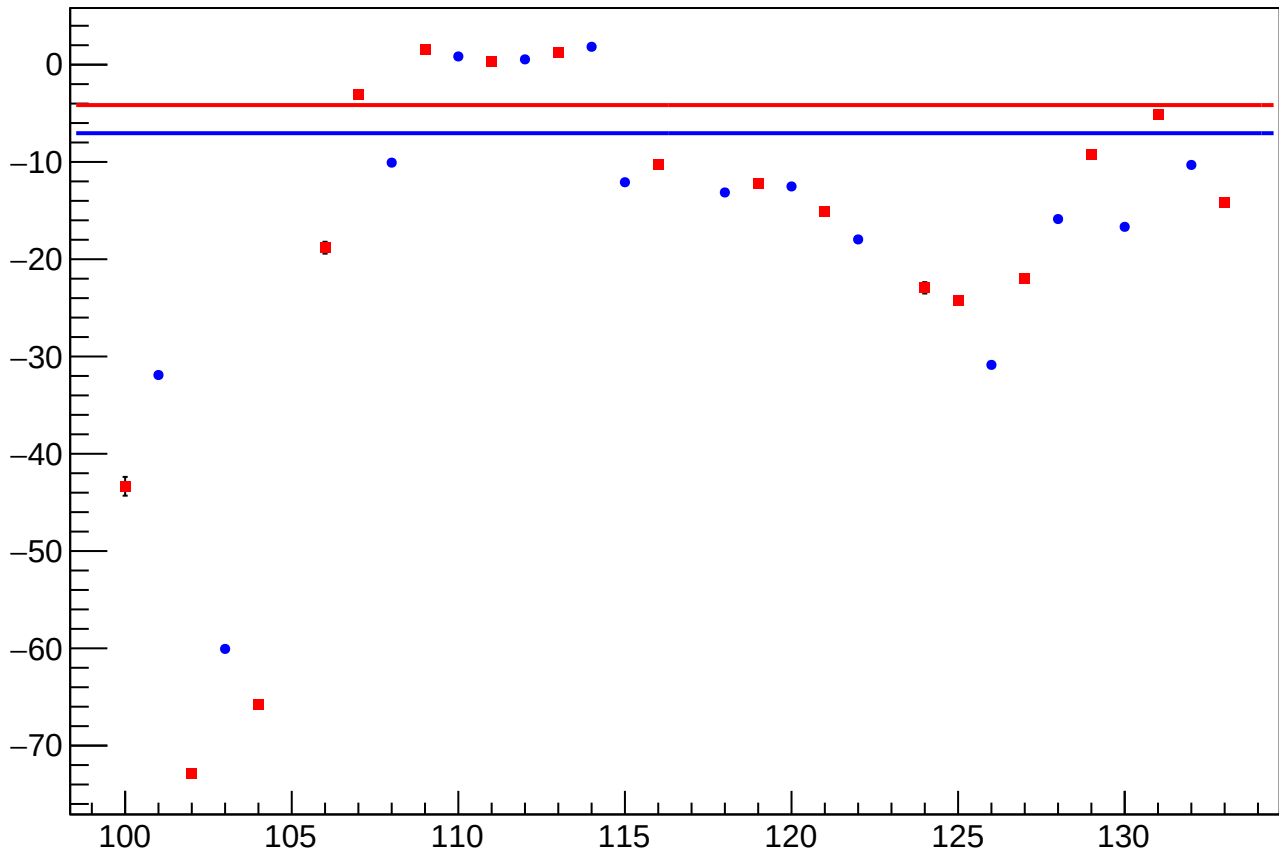
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -15.737 $\pm$ 0.023  $\chi^2$ /NDF: 483926.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug



Right In:  $-7.045 \pm 0.058$   $\chi^2/\text{NDF}$ : 41043.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.153 \pm 0.048$   $\chi^2/\text{NDF}$ : 62022.6/16

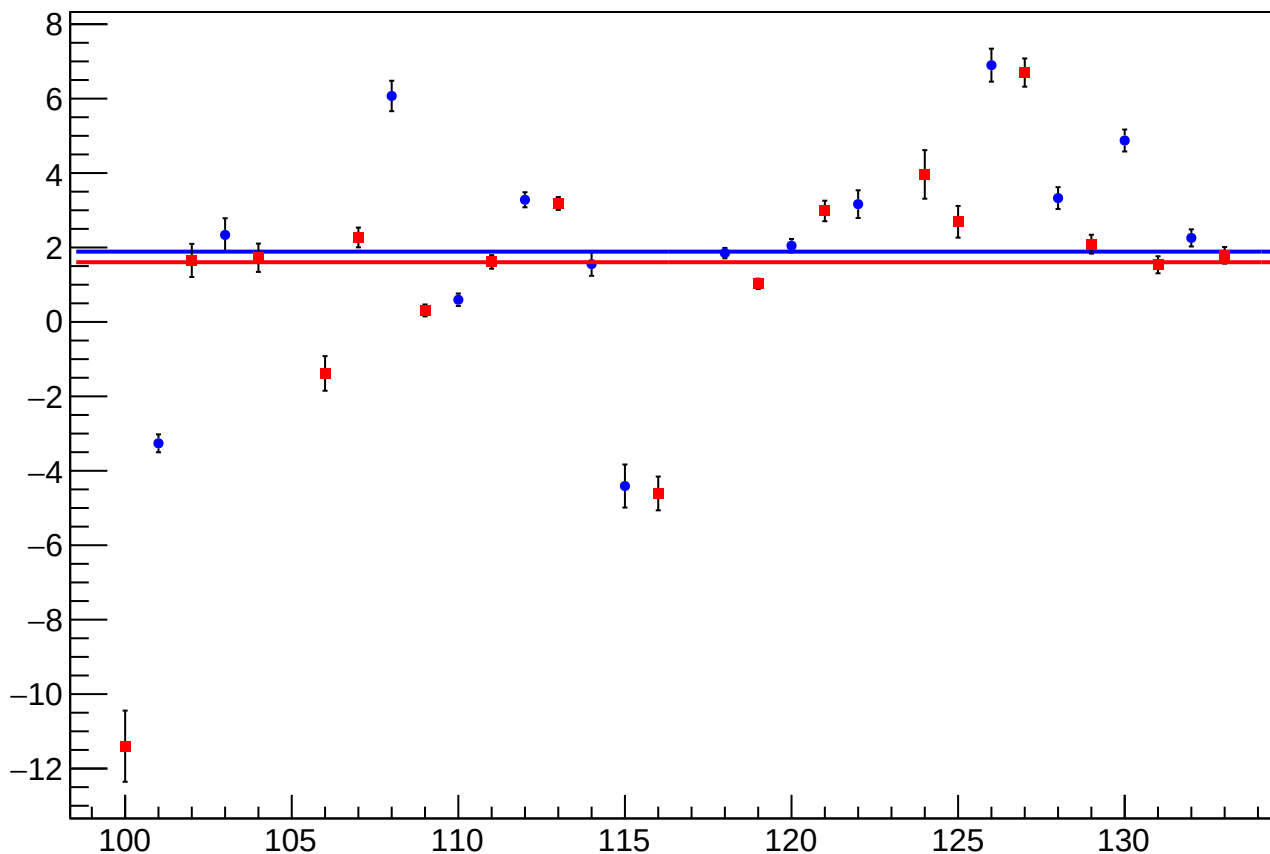
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.323 \pm 0.037$   $\chi^2/\text{NDF}$ : 104538.2/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug



Right In: 1.889+/-0.065  $\chi^2/\text{NDF}$ : 1060.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.604+/-0.060  $\chi^2/\text{NDF}$ : 816.2/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

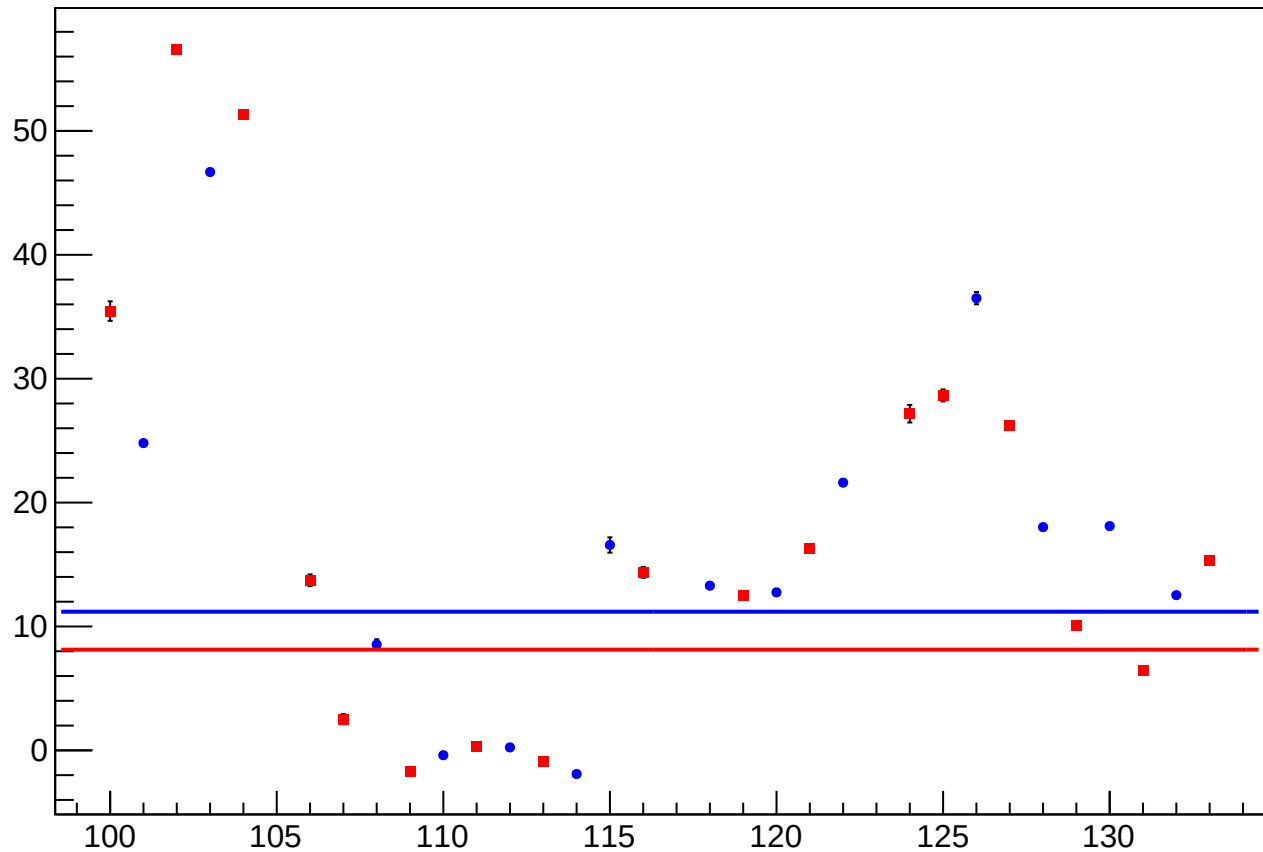
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.737+/-0.044  $\chi^2/\text{NDF}$ : 1886.6/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug



Right In: 11.194 $\pm$ 0.071  $\chi^2$ /NDF: 29902.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8.128 $\pm$ 0.063  $\chi^2$ /NDF: 51284.3/16

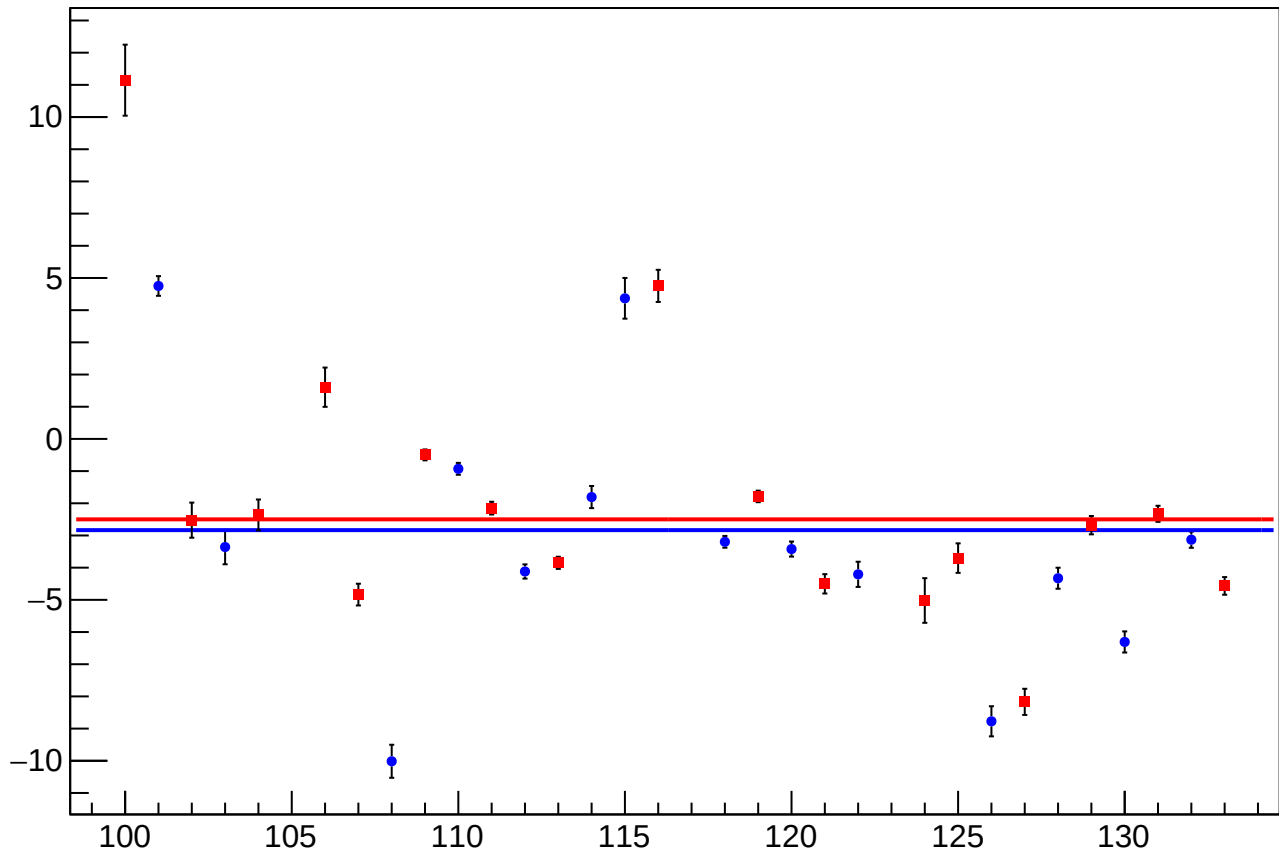
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.471 $\pm$ 0.047  $\chi^2$ /NDF: 82229.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs Slug



Right In:  $-2.834 \pm 0.076$   $\chi^2/\text{NDF}$ : 1410.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.499 \pm 0.069$   $\chi^2/\text{NDF}$ : 984.0/16

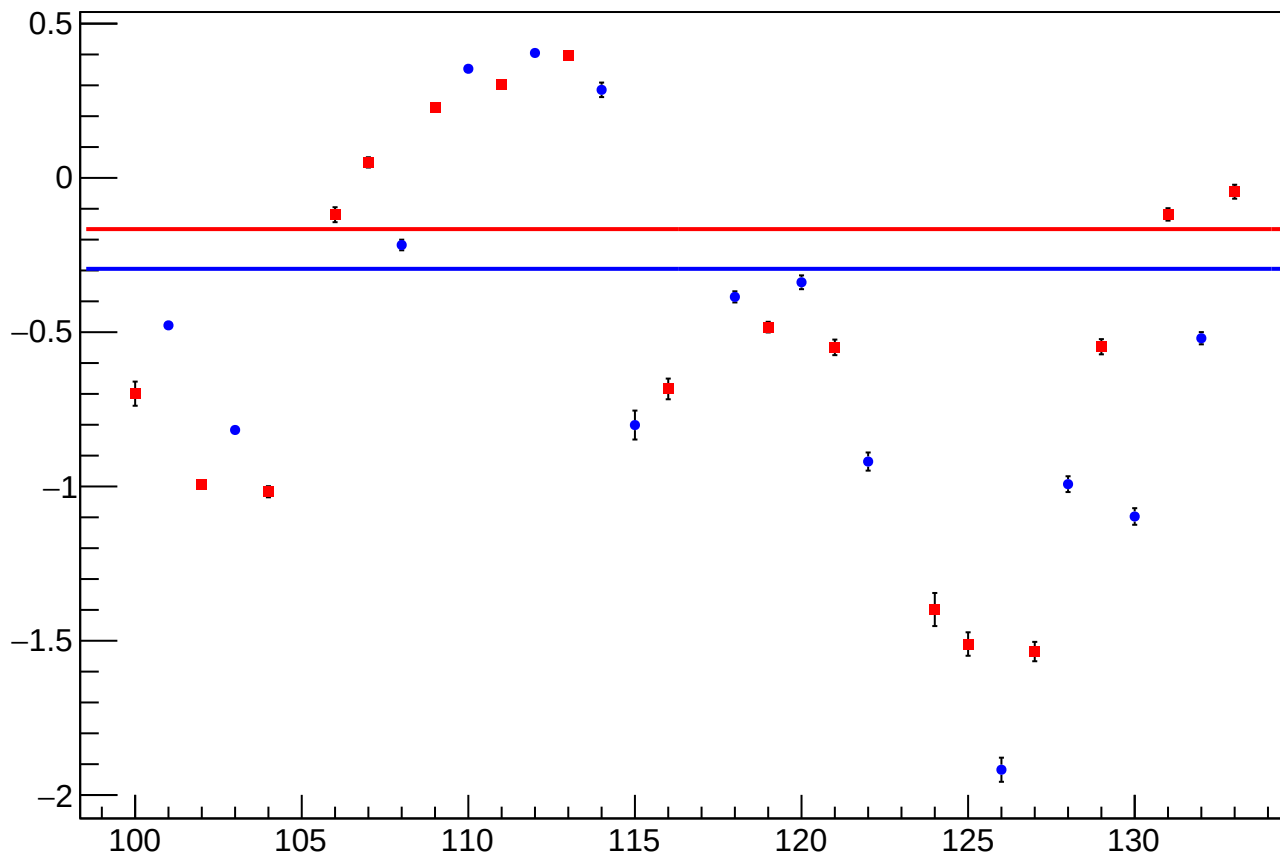
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.651 \pm 0.051$   $\chi^2/\text{NDF}$ : 2404.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.295 \pm 0.005$   $\chi^2/\text{NDF}: 11238.1/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.166 \pm 0.004$   $\chi^2/\text{NDF}: 15261.5/16$

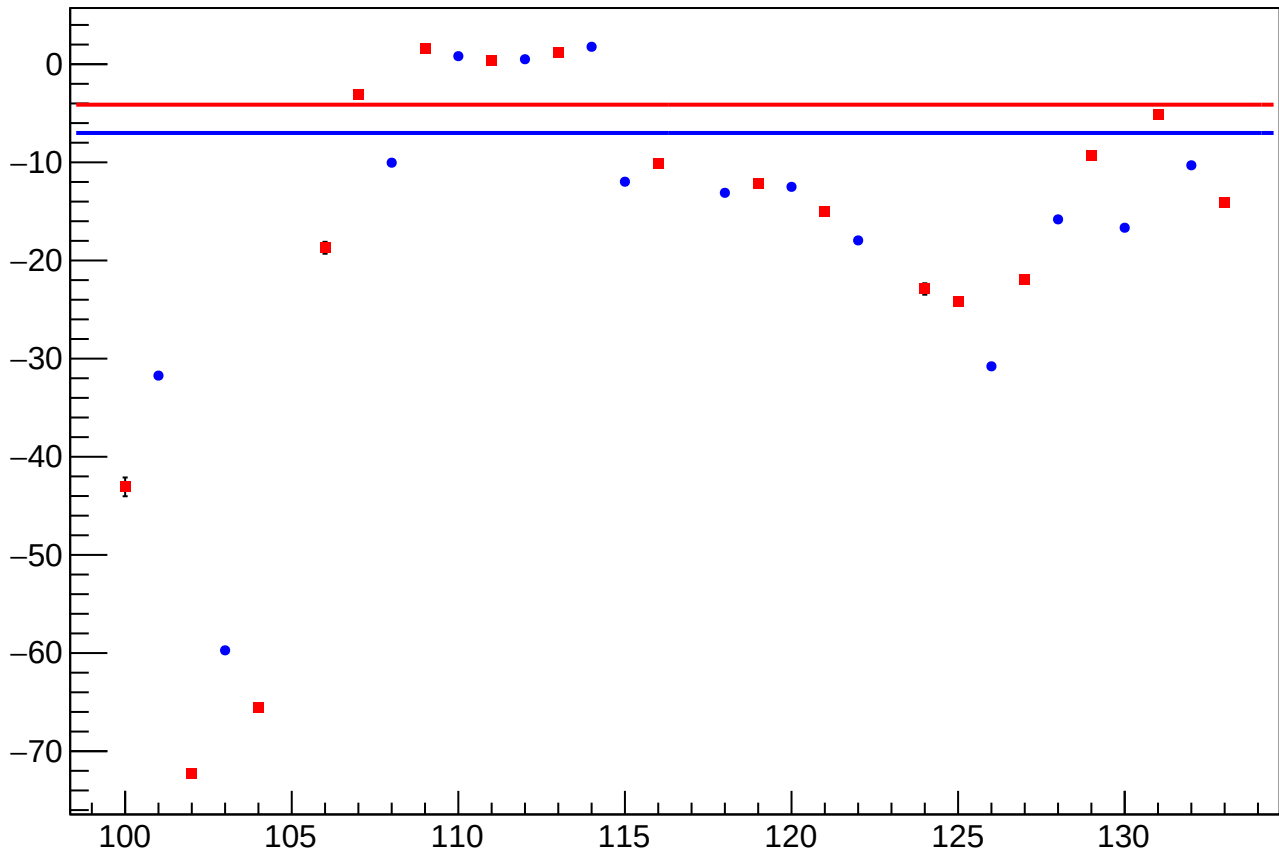
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.223 \pm 0.003$   $\chi^2/\text{NDF}: 26864.5/30$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_bcm\_an\_ds\_diff\_bpm1X\_slope vs Slug



Right In:  $-7.007 \pm 0.058$   $\chi^2/\text{NDF}$ : 41057.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.125 \pm 0.048$   $\chi^2/\text{NDF}$ : 62041.2/16

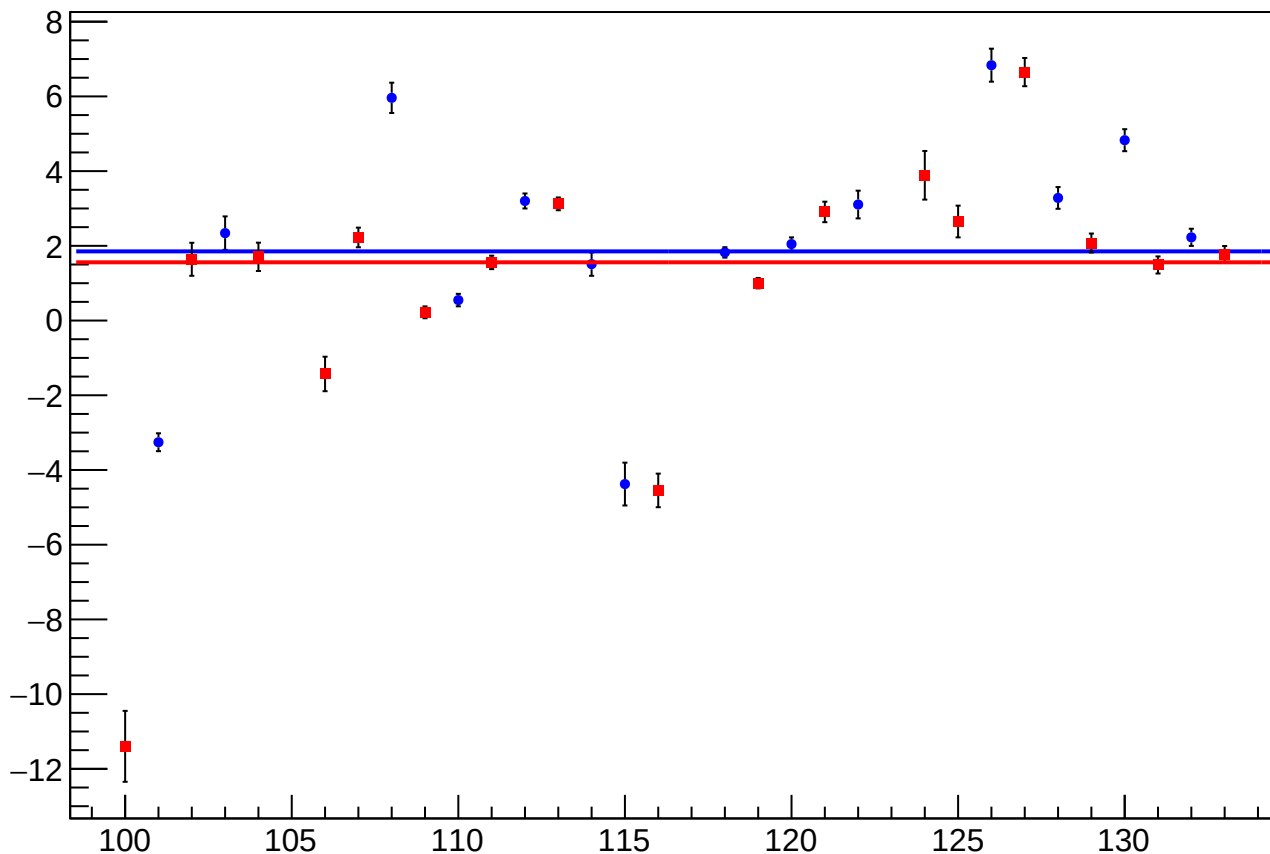
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.291 \pm 0.037$   $\chi^2/\text{NDF}$ : 104580.1/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug



Right In: 1.852 $\pm$ 0.065  $\chi^2$ /NDF: 1054.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.559 $\pm$ 0.060  $\chi^2$ /NDF: 820.8/16

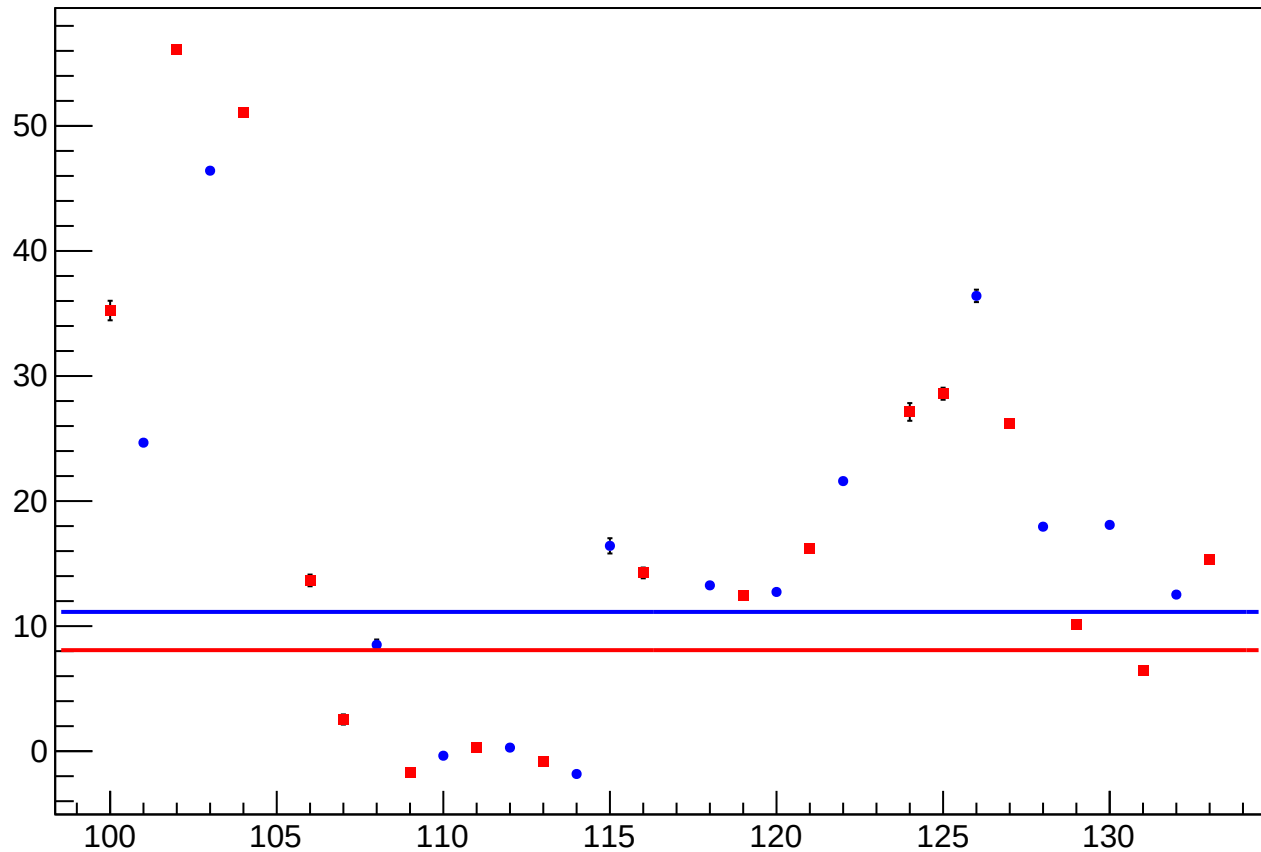
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.695 $\pm$ 0.044  $\chi^2$ /NDF: 1886.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug



Right In: 11.137 $\pm$ 0.071  $\chi^2$ /NDF: 29911.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8.079 $\pm$ 0.062  $\chi^2$ /NDF: 51307.0/16

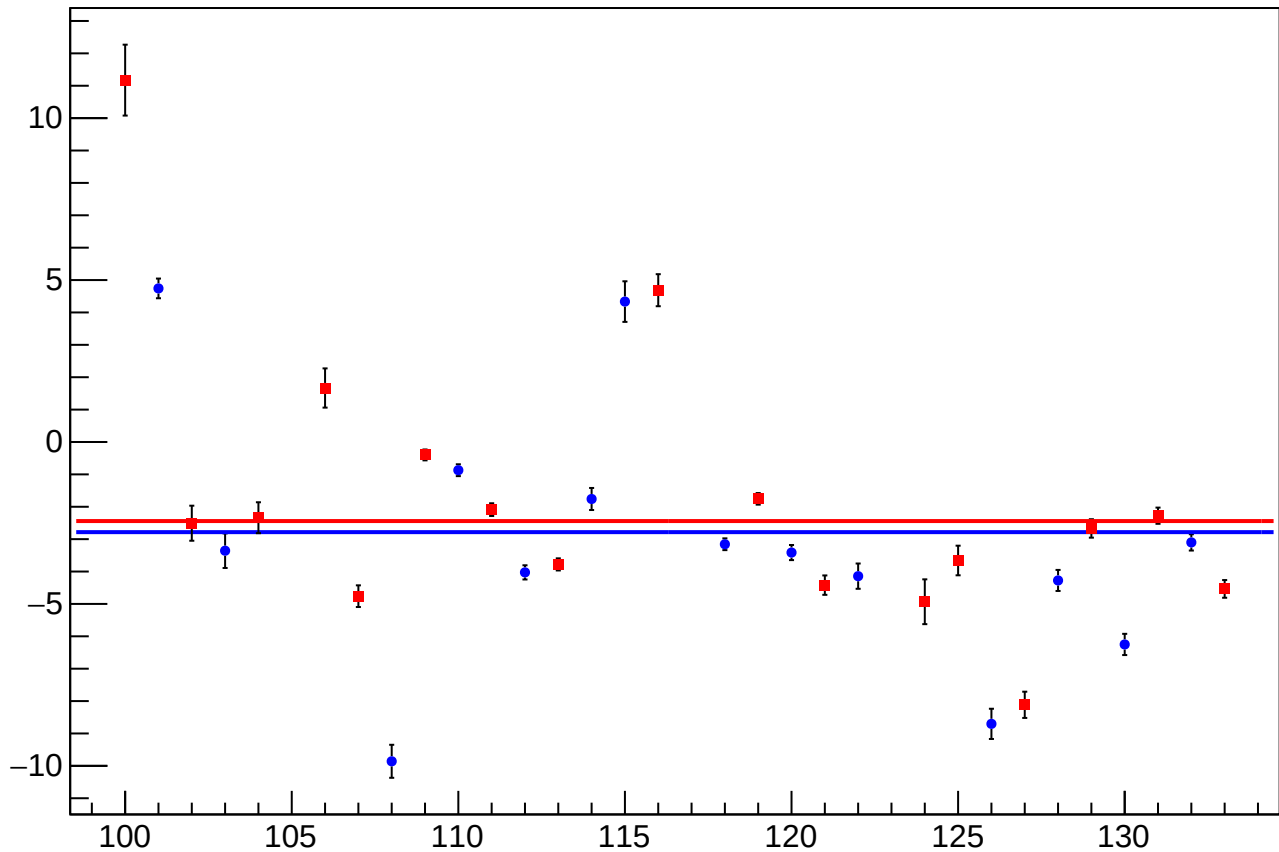
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.418 $\pm$ 0.047  $\chi^2$ /NDF: 82268.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug



Right In:  $-2.784 \pm 0.076$   $\chi^2/\text{NDF}$ : 1405.6/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.441 \pm 0.069$   $\chi^2/\text{NDF}$ : 992.9/16

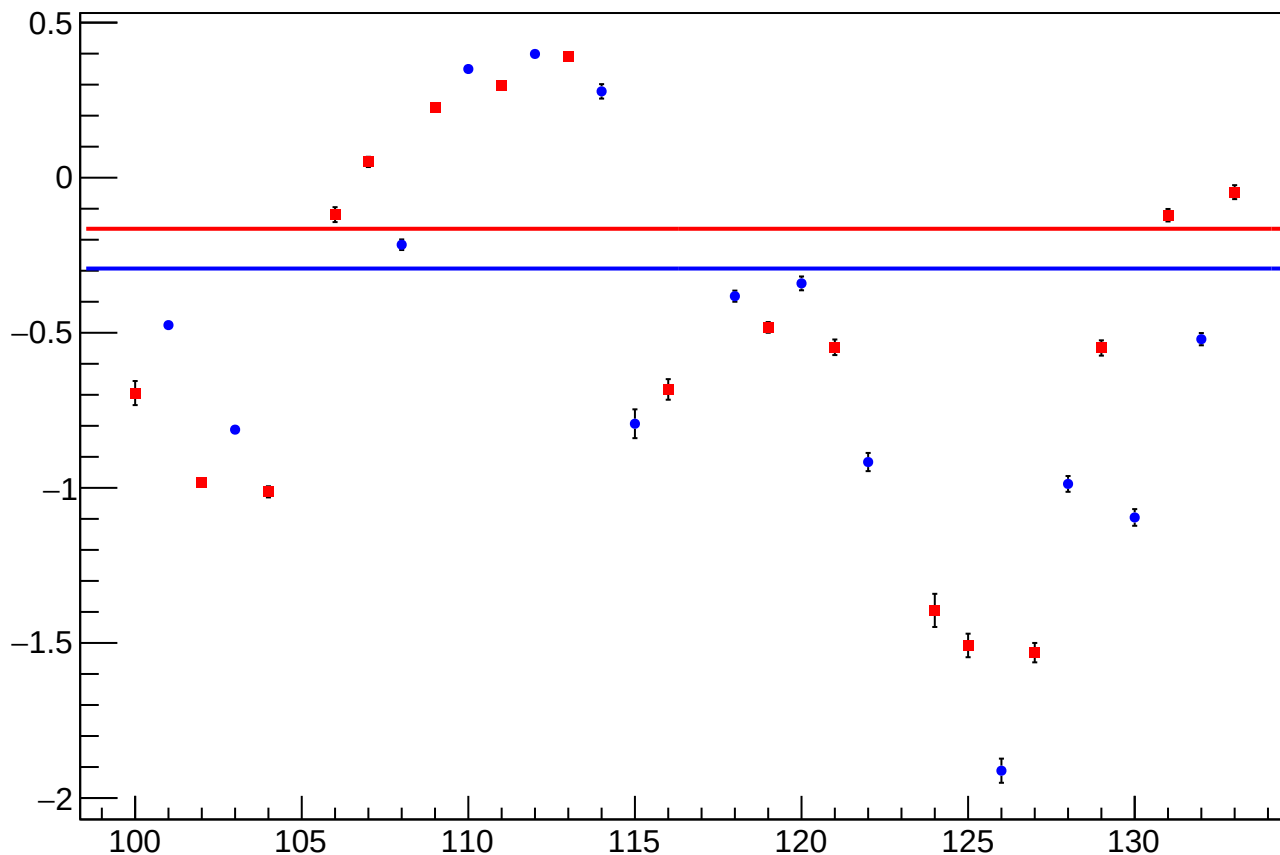
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.596 \pm 0.051$   $\chi^2/\text{NDF}$ : 2409.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.293 \pm 0.005$   $\chi^2/\text{NDF}: 11225.9/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.165 \pm 0.004$   $\chi^2/\text{NDF}: 15279.0/16$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

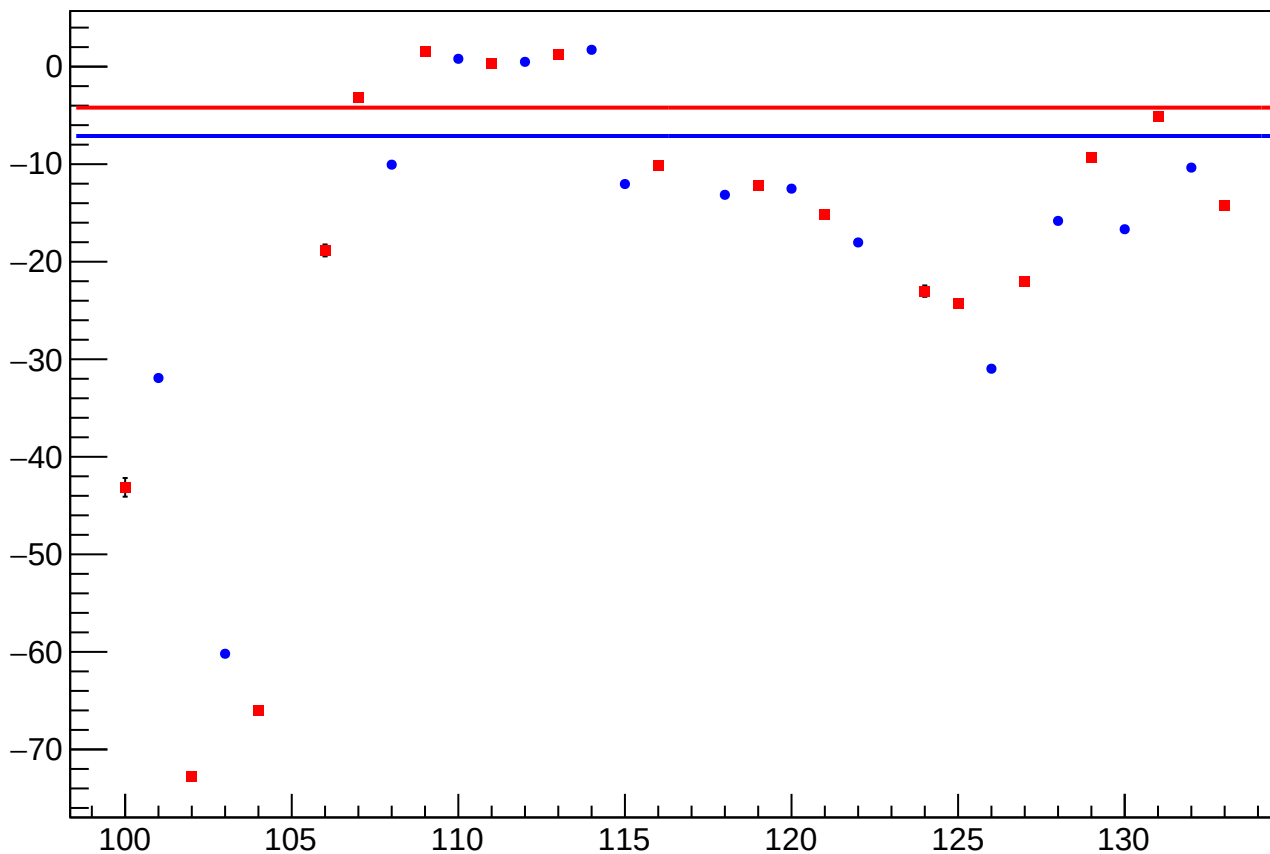
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.221 \pm 0.003$   $\chi^2/\text{NDF}: 26871.3/30$

- 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: -7.112+/-0.058  $\chi^2/\text{NDF}$ : 40946.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.203+/-0.048  $\chi^2/\text{NDF}$ : 61946.0/16

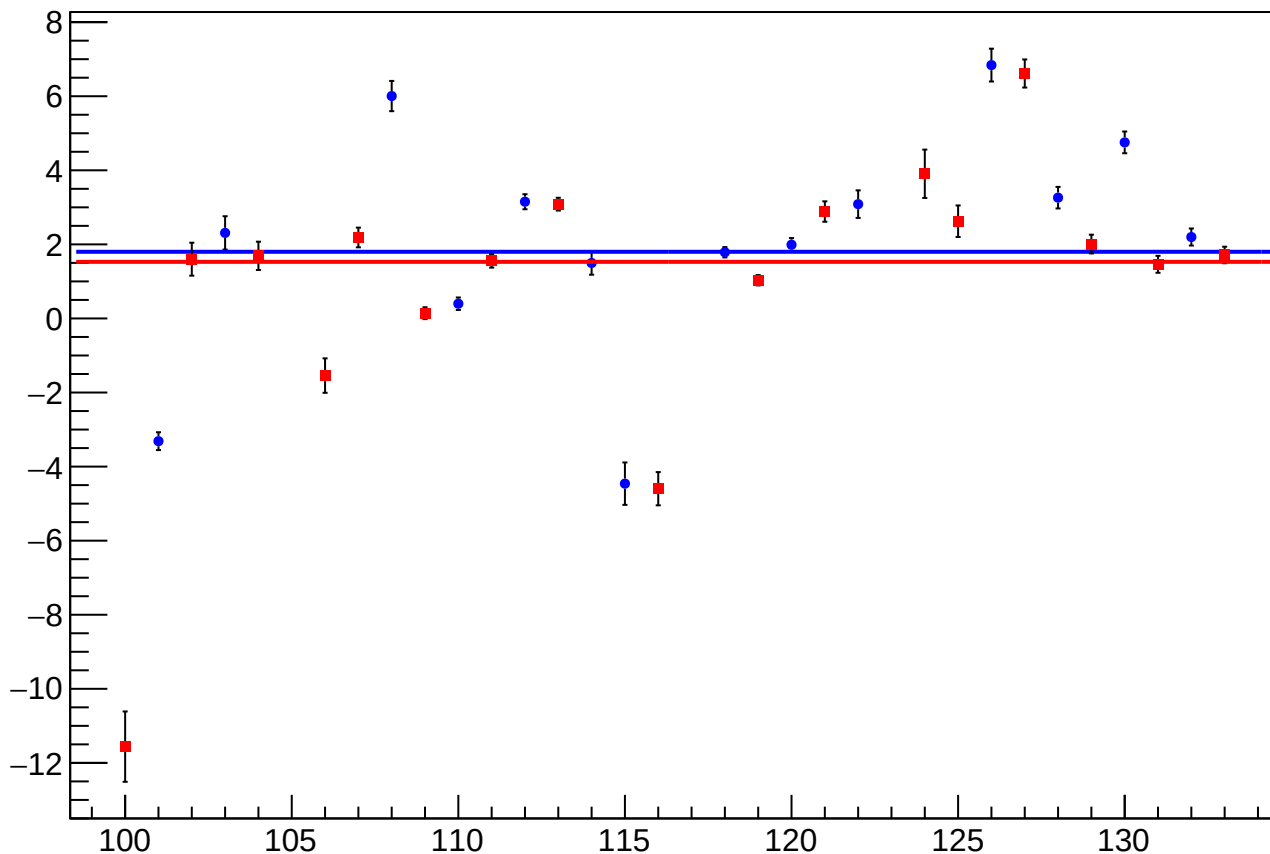
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

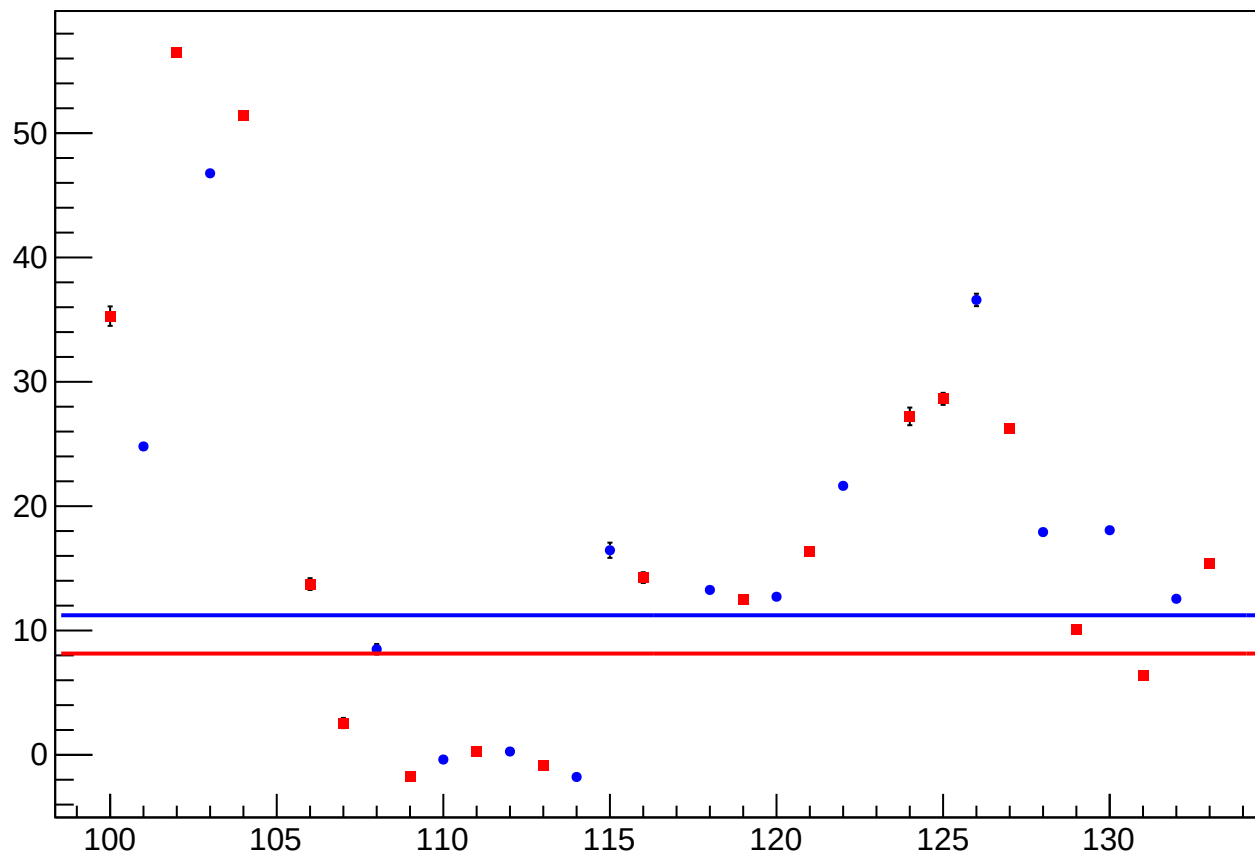
All: -5.380+/-0.037  $\chi^2/\text{NDF}$ : 104381.8/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug



# reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs Slug



Right In: 11.226 $\pm$ 0.071  $\chi^2$ /NDF: 29813.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8.148 $\pm$ 0.063  $\chi^2$ /NDF: 51224.8/16

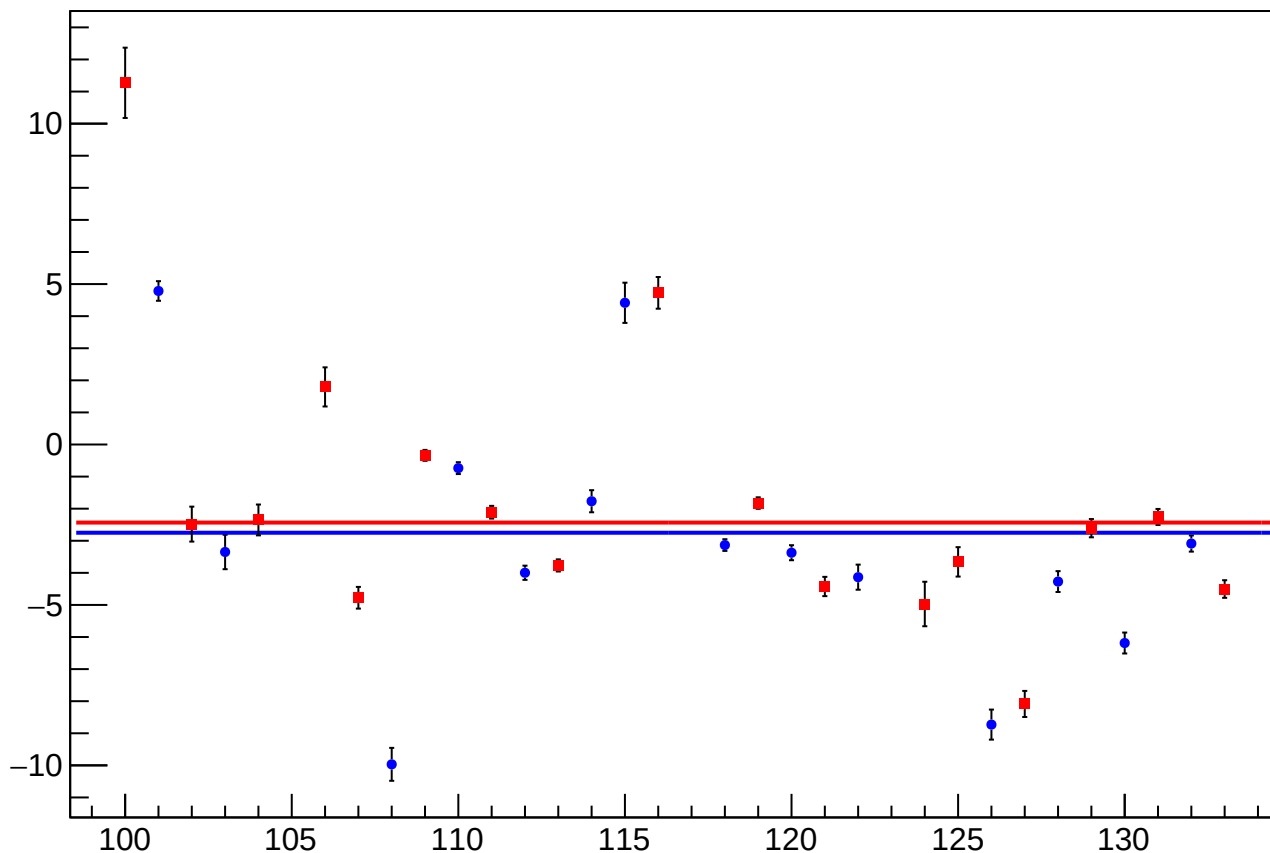
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.497 $\pm$ 0.047  $\chi^2$ /NDF: 82089.7/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug



Right In:  $-2.750 \pm 0.076$   $\chi^2/\text{NDF}$ : 1418.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.433 \pm 0.069$   $\chi^2/\text{NDF}$ : 994.7/16

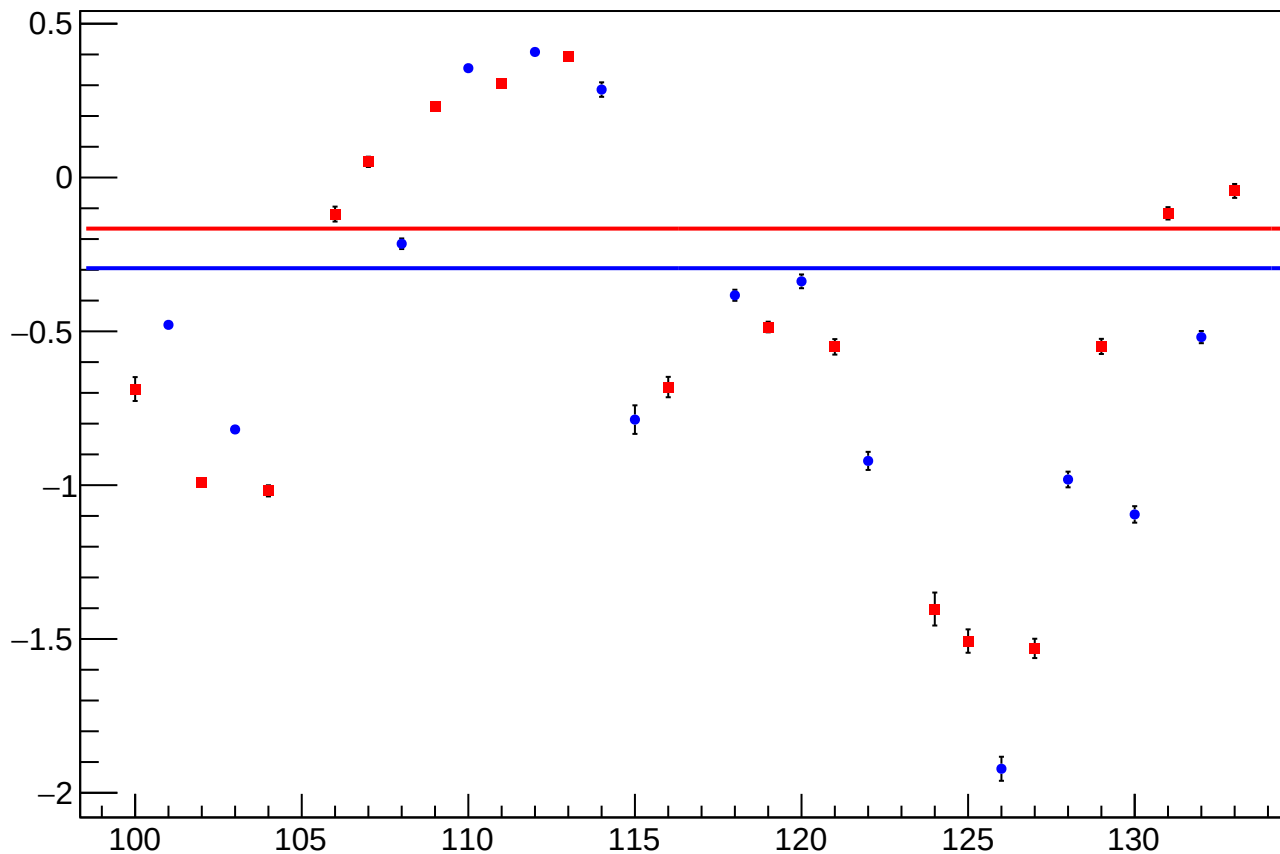
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.576 \pm 0.051$   $\chi^2/\text{NDF}$ : 2422.3/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.295 \pm 0.005$   $\chi^2/\text{NDF}: 11256.0/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.166 \pm 0.004$   $\chi^2/\text{NDF}: 15254.8/16$

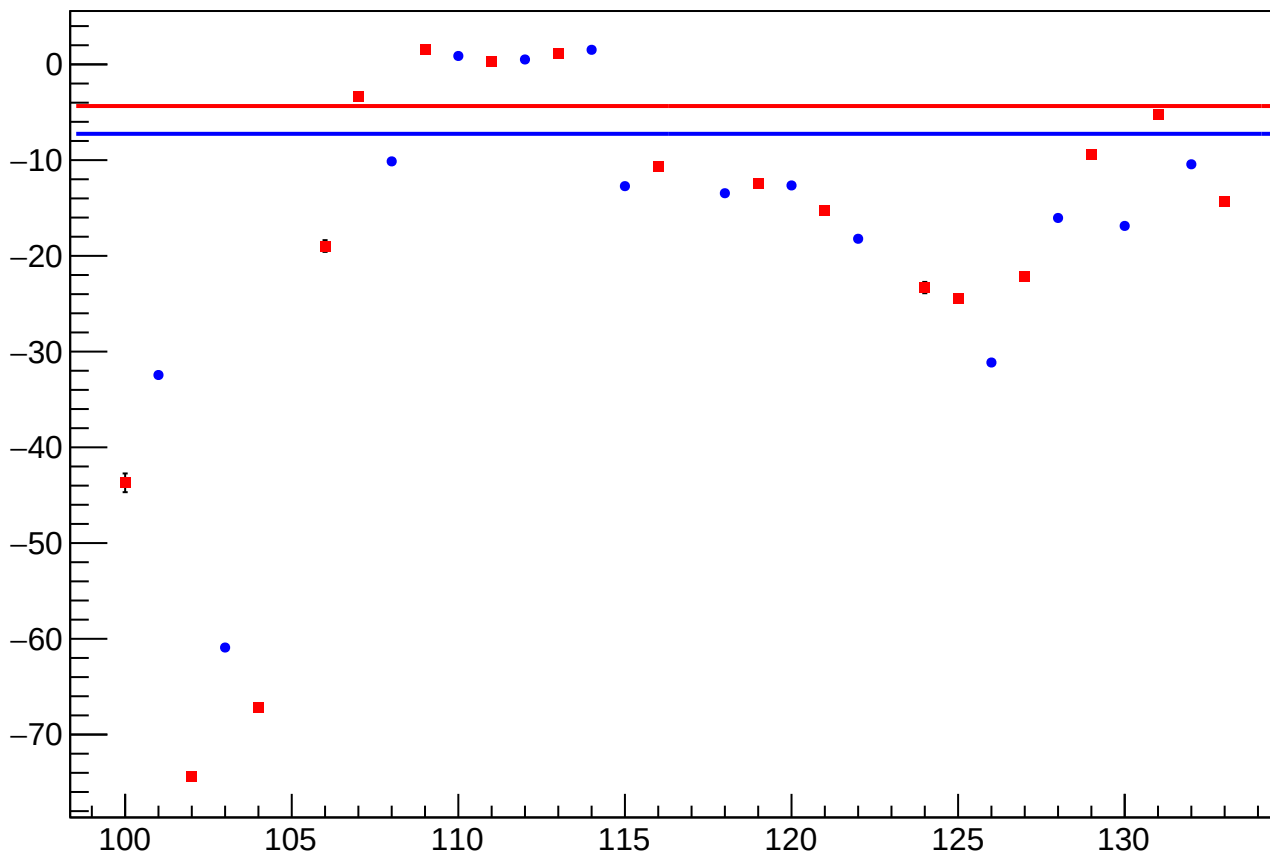
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.223 \pm 0.003$   $\chi^2/\text{NDF}: 26875.3/30$

- 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: -7.252+/-0.059  $\chi^2/\text{NDF}$ : 40444.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.350+/-0.049  $\chi^2/\text{NDF}$ : 61385.2/16

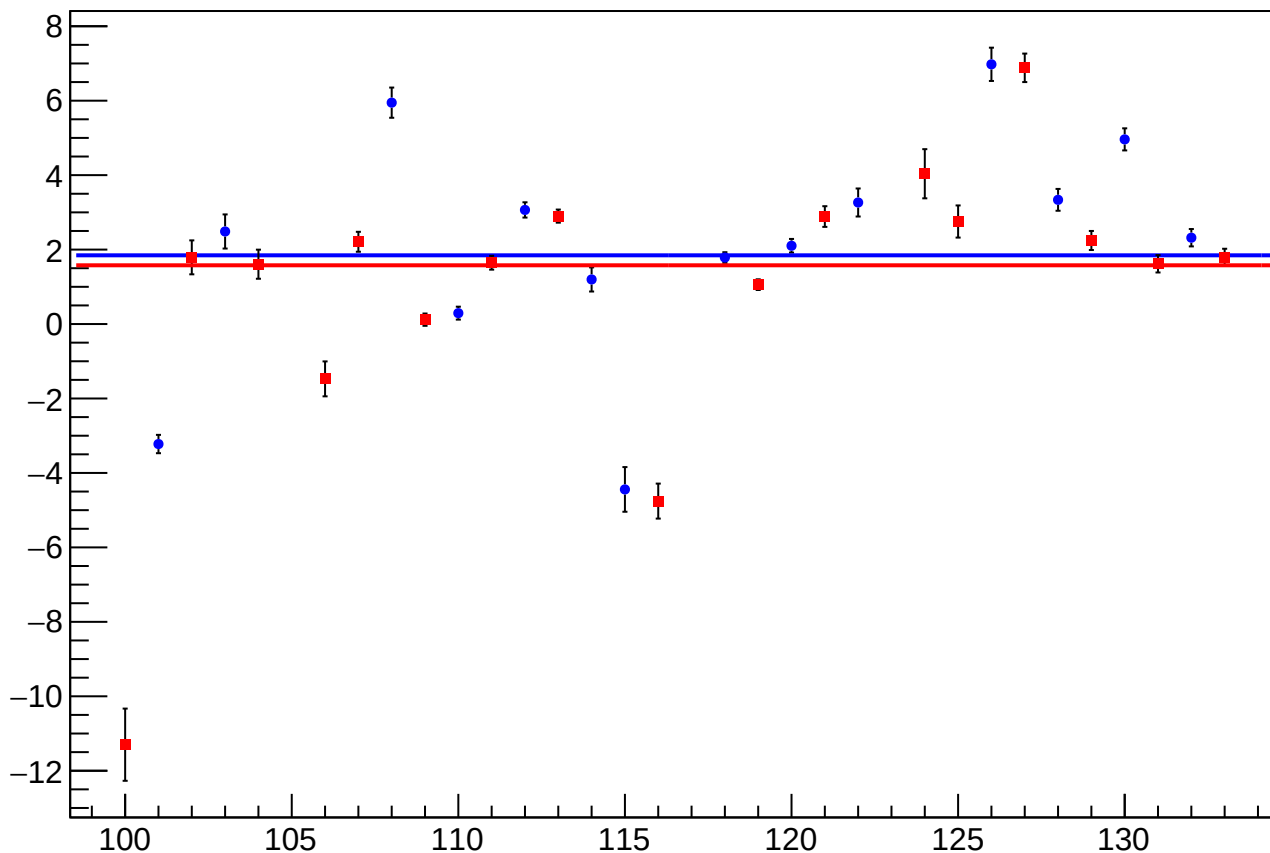
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.530+/-0.038  $\chi^2/\text{NDF}$ : 103249.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug



Right In: 1.846 $\pm$ 0.066  $\chi^2$ /NDF: 1044.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.578 $\pm$ 0.062  $\chi^2$ /NDF: 797.3/16

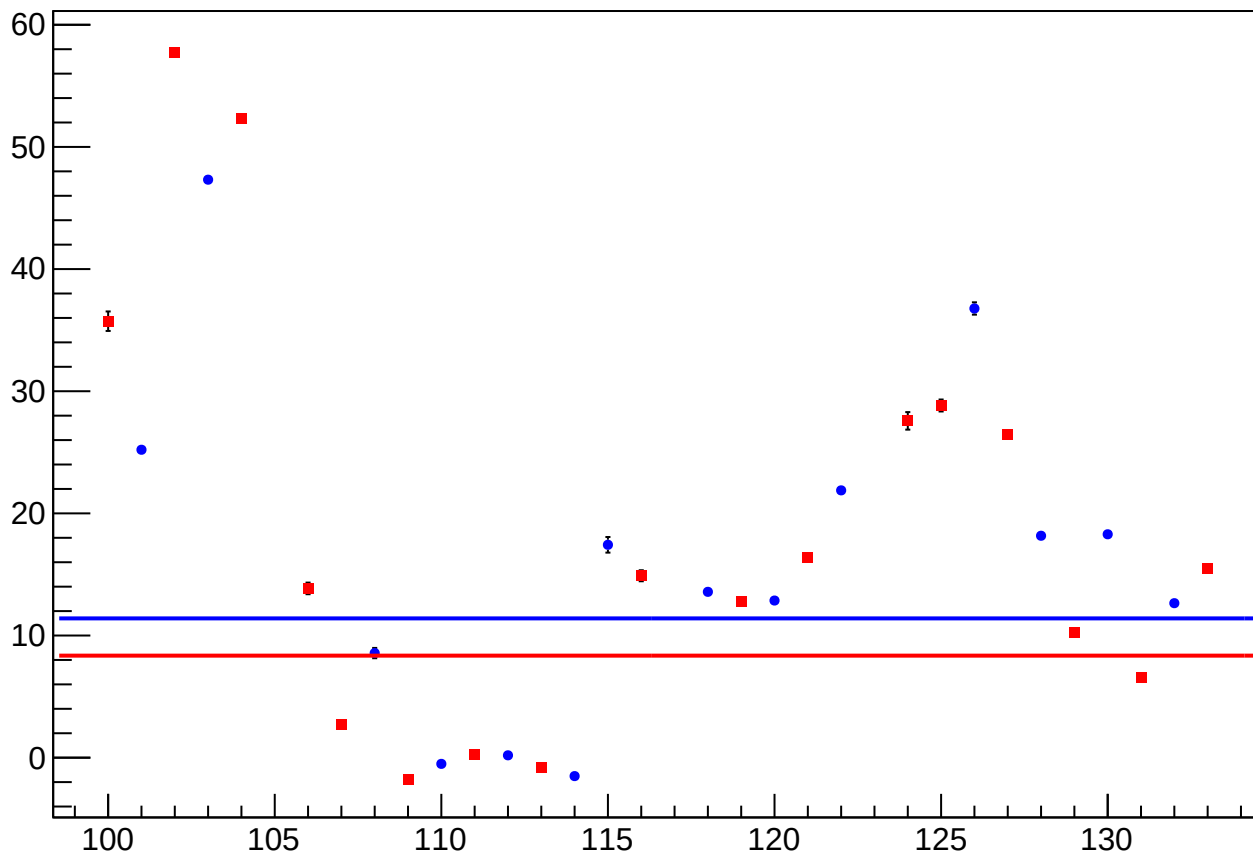
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.703 $\pm$ 0.045  $\chi^2$ /NDF: 1850.8/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug



Right In: 11.402+/-0.073  $\chi^2/\text{NDF}$ : 29484.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.353+/-0.064  $\chi^2/\text{NDF}$ : 50747.5/16

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

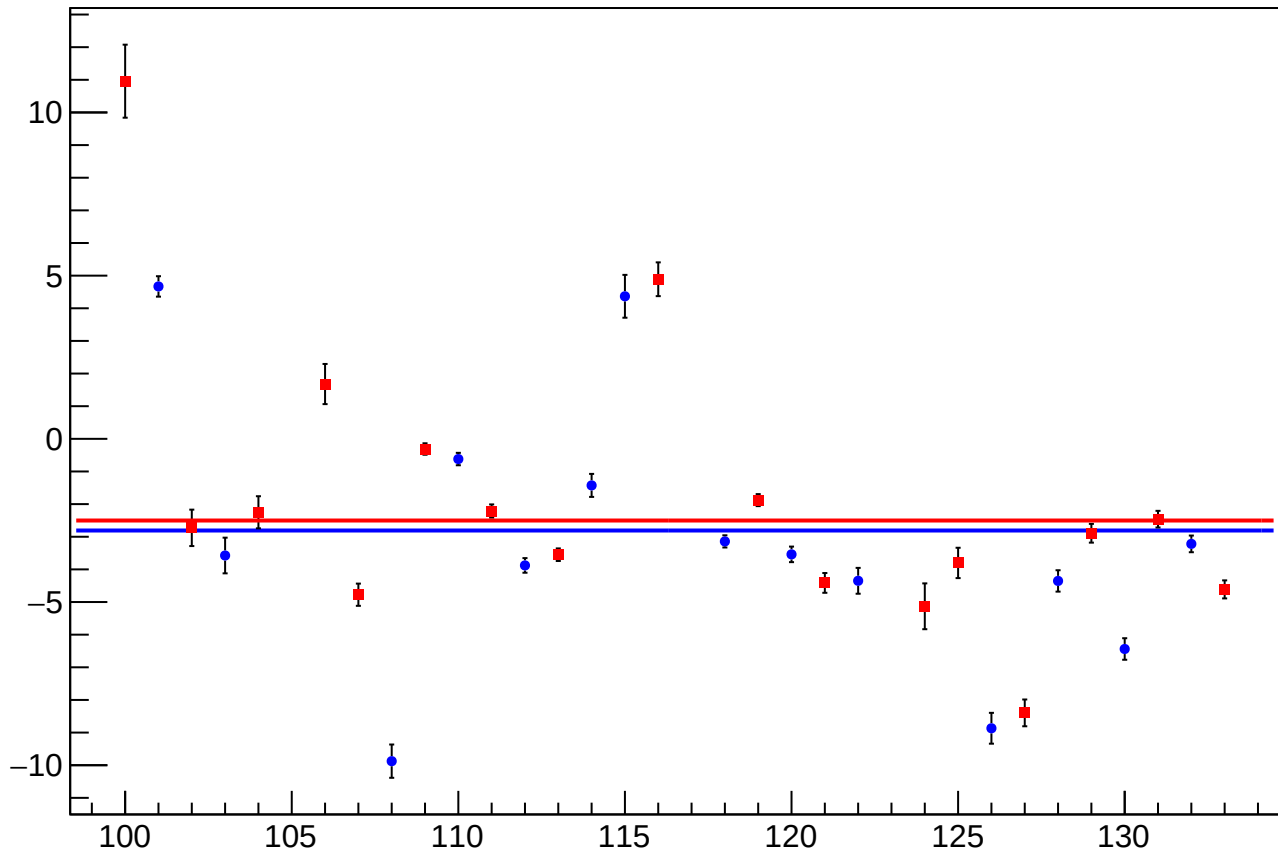
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.694+/-0.048  $\chi^2/\text{NDF}$ : 81222.0/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug



Right In:  $-2.809 \pm 0.078$   $\chi^2/\text{NDF}$ : 1392.8/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.503 \pm 0.071$   $\chi^2/\text{NDF}$ : 968.2/16

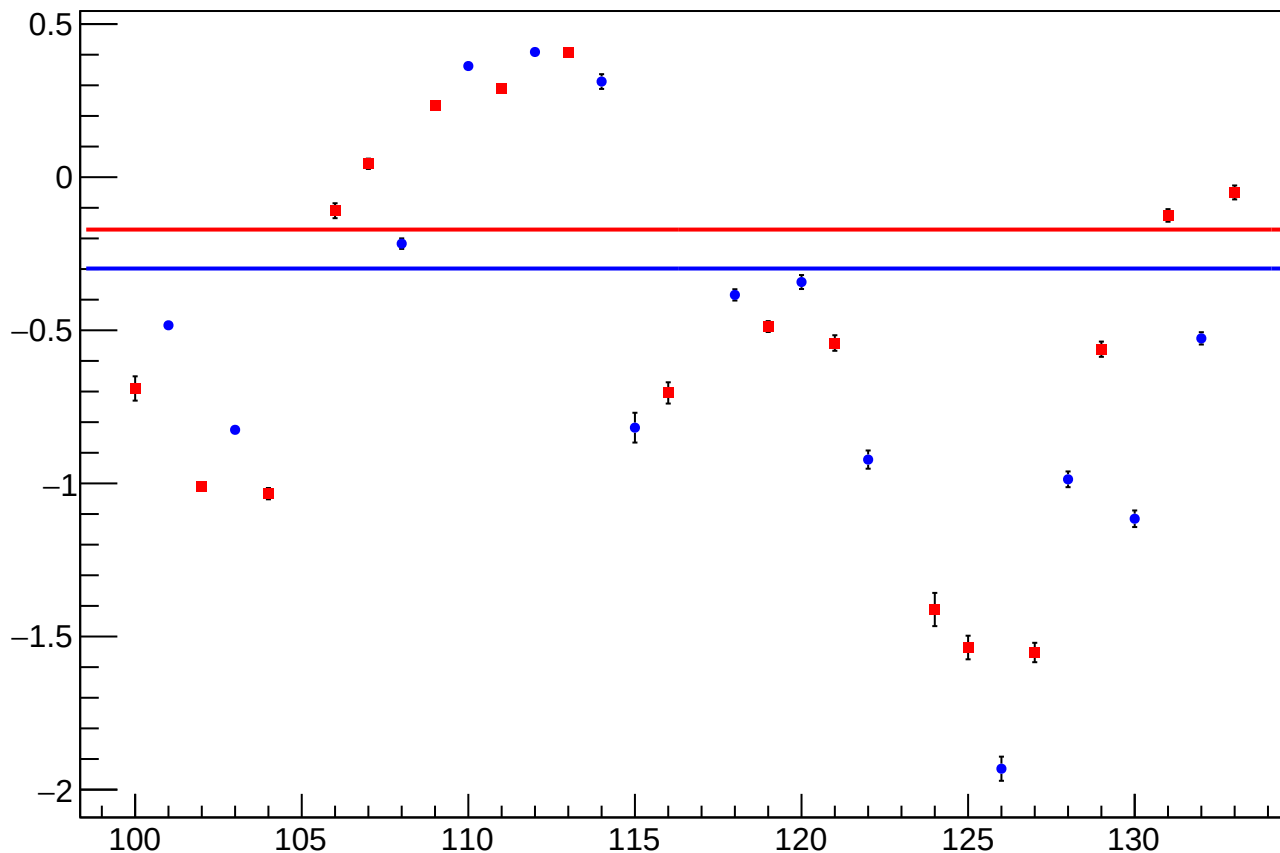
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.641 \pm 0.052$   $\chi^2/\text{NDF}$ : 2369.5/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.298 \pm 0.005$   $\chi^2/\text{NDF}: 11132.0/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.171 \pm 0.005$   $\chi^2/\text{NDF}: 15044.8/16$

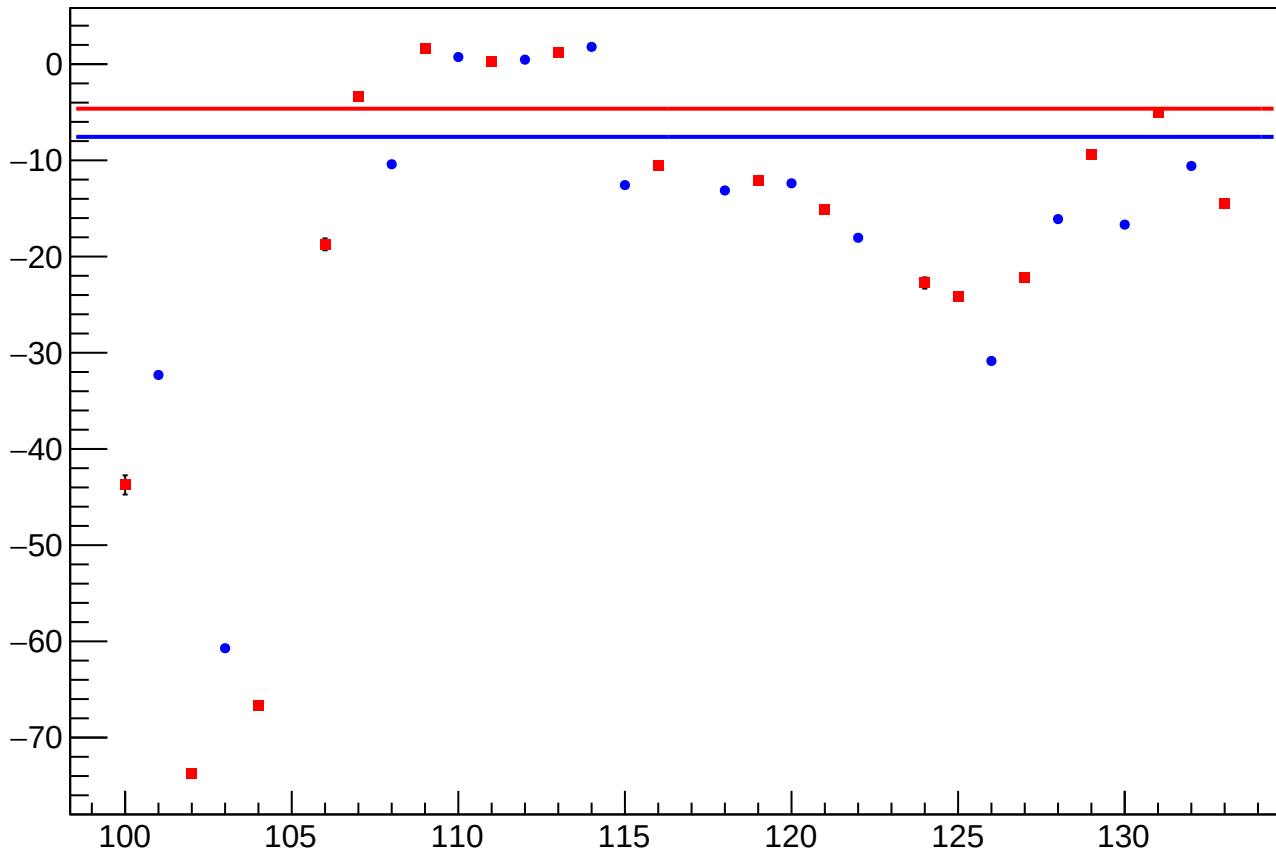
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.227 \pm 0.003$   $\chi^2/\text{NDF}: 26519.4/30$

- 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:  $-7.559 \pm 0.060$   $\chi^2/\text{NDF}$ : 39138.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-4.628 \pm 0.050$   $\chi^2/\text{NDF}$ : 59829.0/16

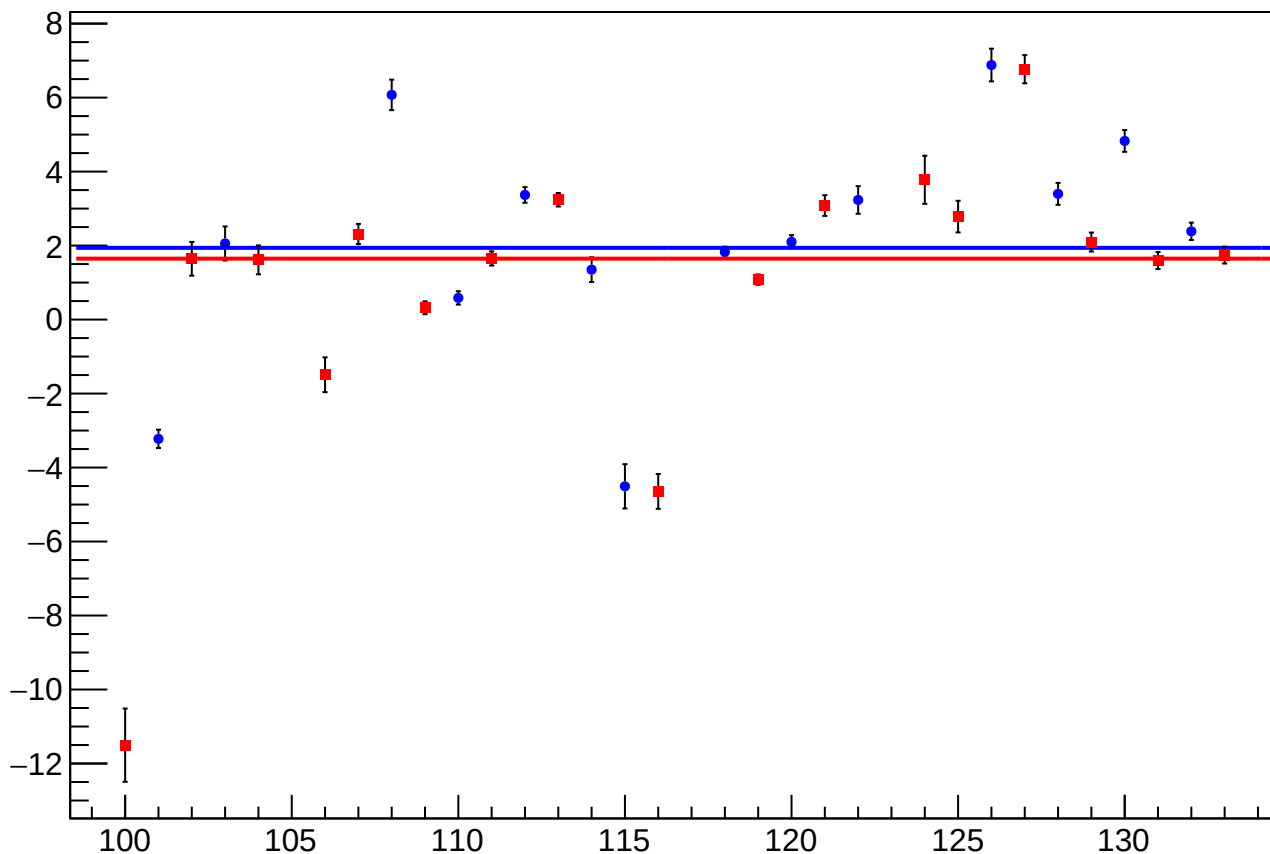
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-5.830 \pm 0.039$   $\chi^2/\text{NDF}$ : 100352.7/30

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug



Right In: 1.939 $\pm$ 0.067  $\chi^2$ /NDF: 1015.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.647 $\pm$ 0.062  $\chi^2$ /NDF: 784.3/16

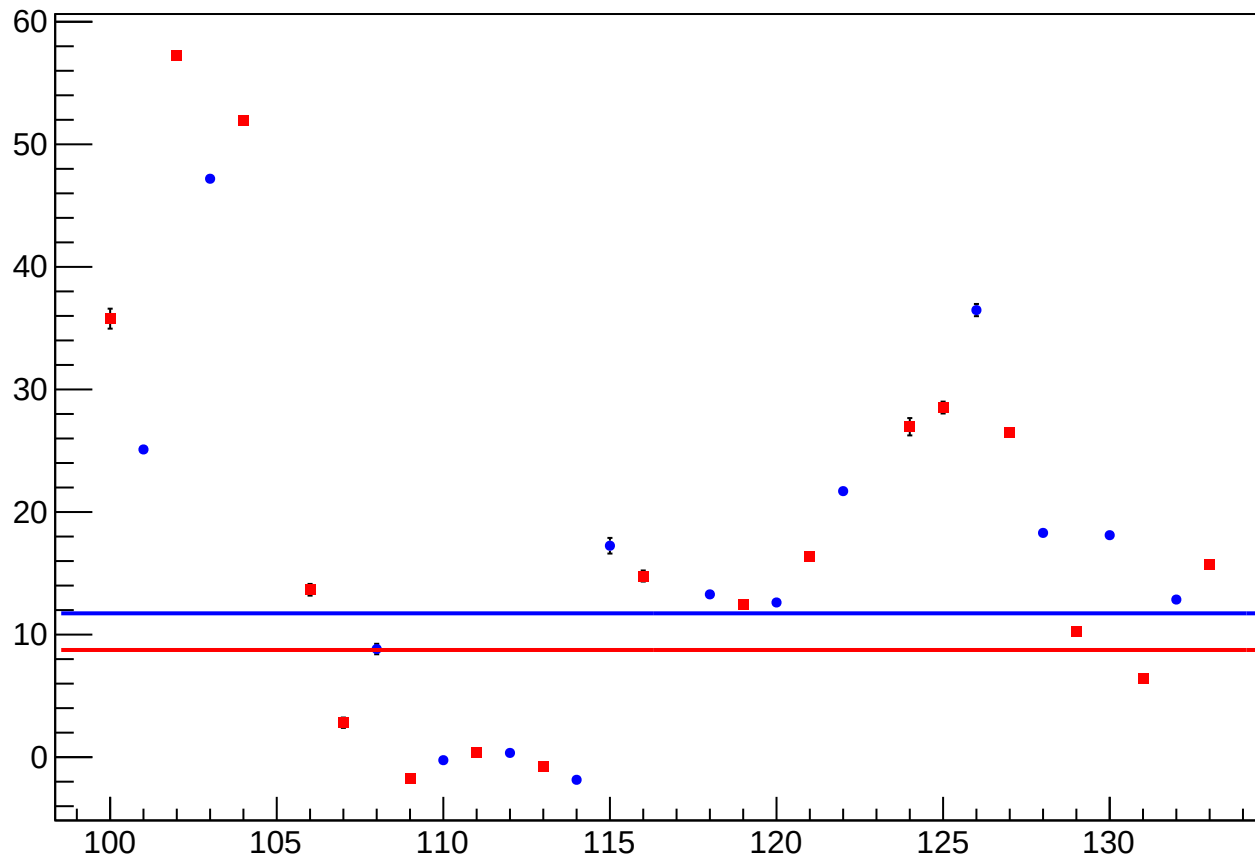
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.784 $\pm$ 0.046  $\chi^2$ /NDF: 1810.3/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug



Right In: 11.735+/-0.074  $\chi^2/\text{NDF}$ : 28238.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.745+/-0.066  $\chi^2/\text{NDF}$ : 48993.2/16

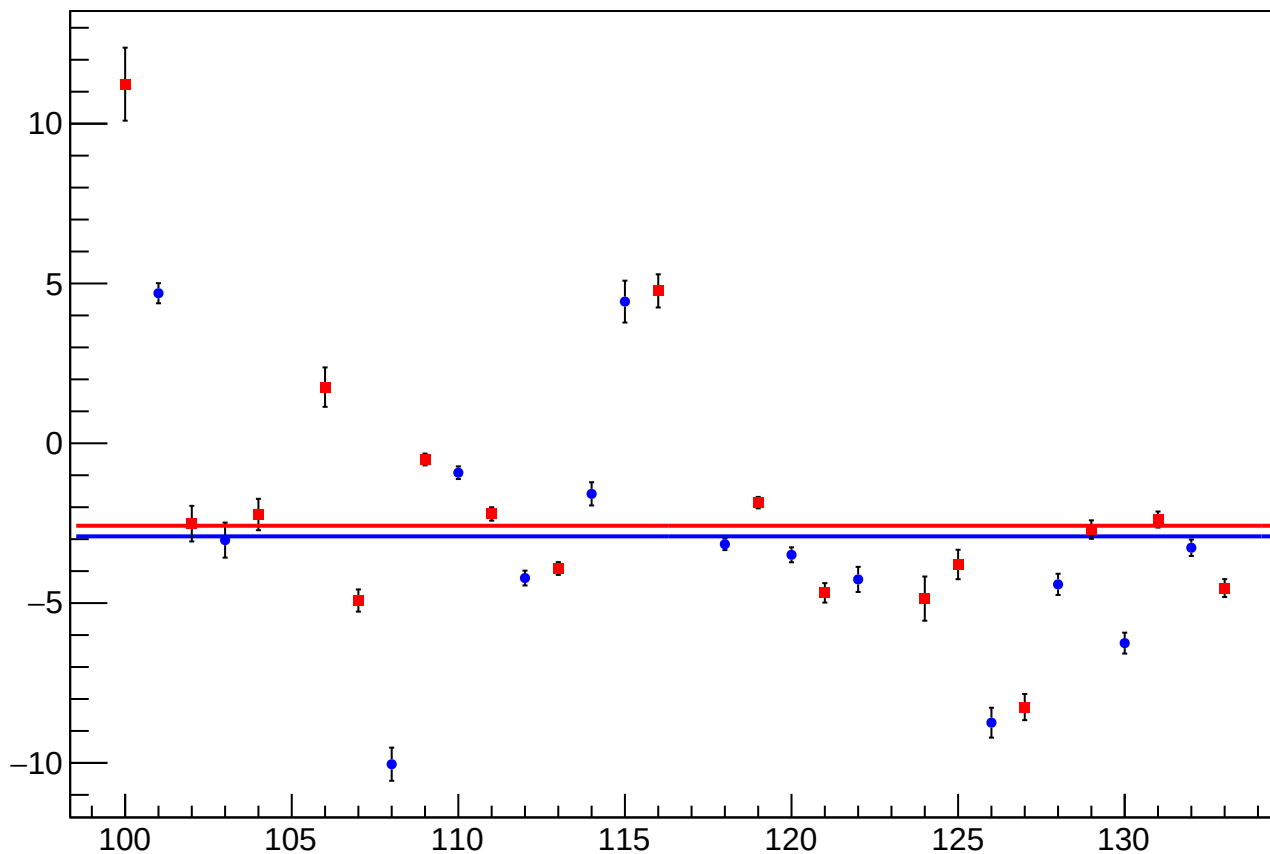
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.068+/-0.049  $\chi^2/\text{NDF}$ : 78153.4/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug



Right In:  $-2.912 \pm 0.078$   $\chi^2/\text{NDF}$ : 1344.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.580 \pm 0.072$   $\chi^2/\text{NDF}$ : 941.0/16

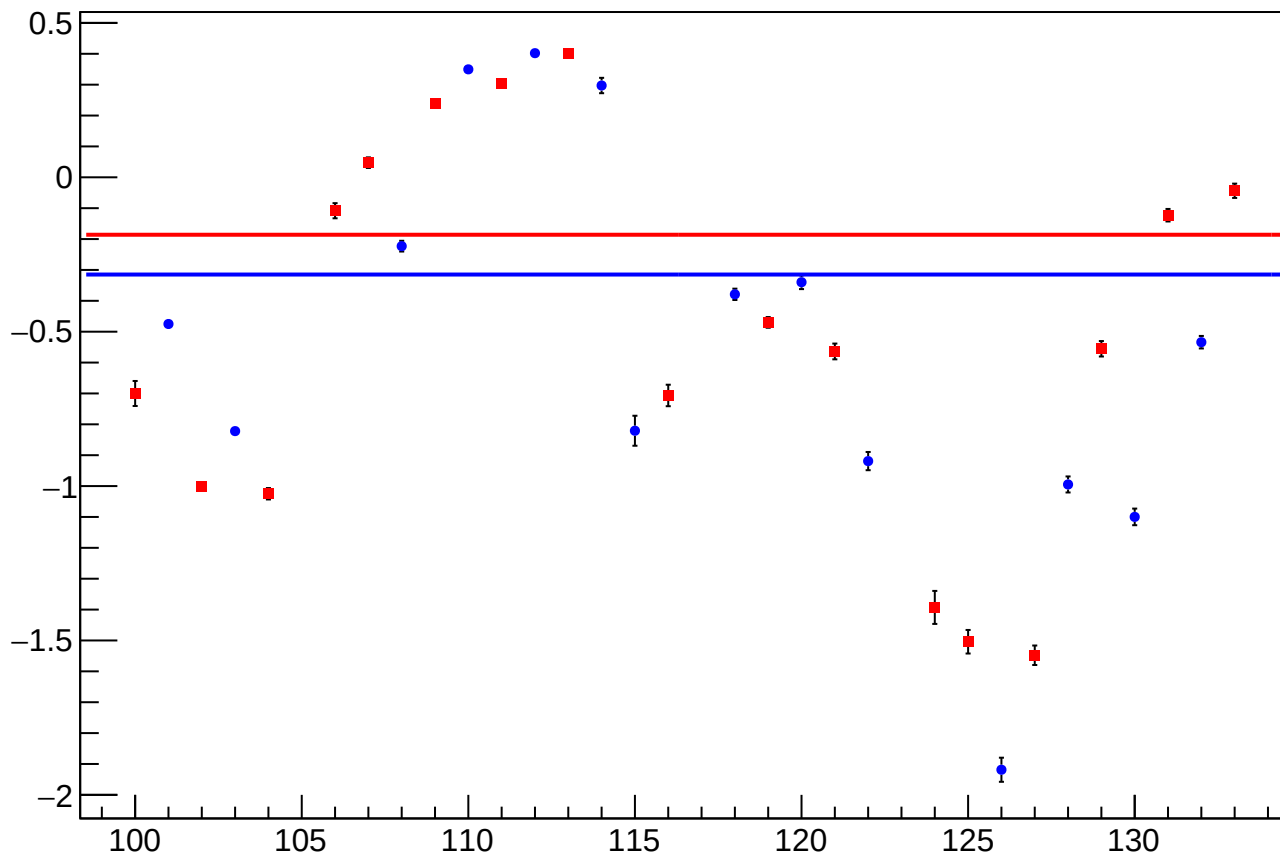
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.731 \pm 0.053$   $\chi^2/\text{NDF}$ : 2295.1/30

- 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:  $-0.315 \pm 0.005$   $\chi^2/\text{NDF}$ : 10550.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.186 \pm 0.005$   $\chi^2/\text{NDF}$ : 14572.5/16

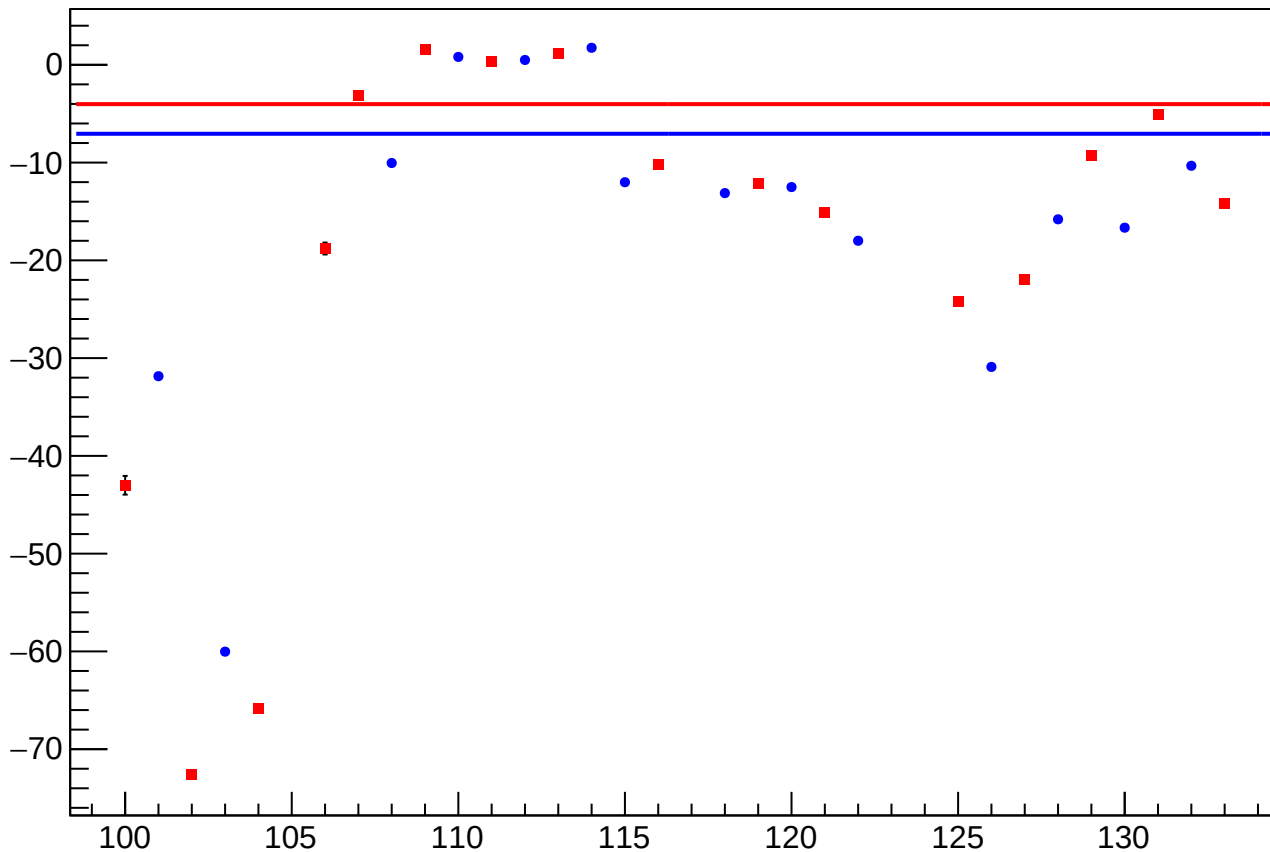
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.243 \pm 0.003$   $\chi^2/\text{NDF}$ : 25464.8/30

- 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: -7.053+/-0.058  $\chi^2/\text{NDF}$ : 41095.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -4.021+/-0.048  $\chi^2/\text{NDF}$ : 61068.6/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

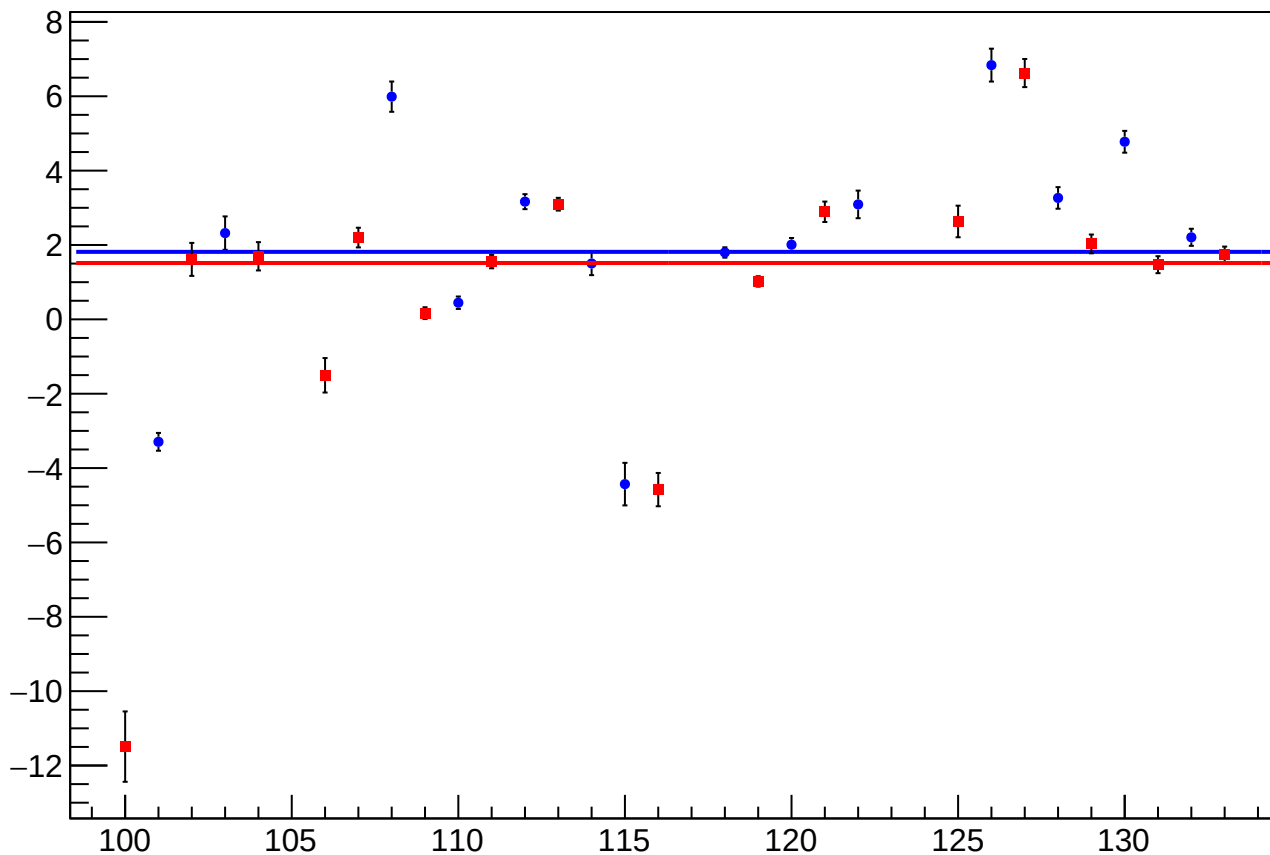
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.251+/-0.037  $\chi^2/\text{NDF}$ : 103794.4/29

- 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: 1.815 $\pm$ 0.065  $\chi^2$ /NDF: 1063.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.516 $\pm$ 0.060  $\chi^2$ /NDF: 812.6/15

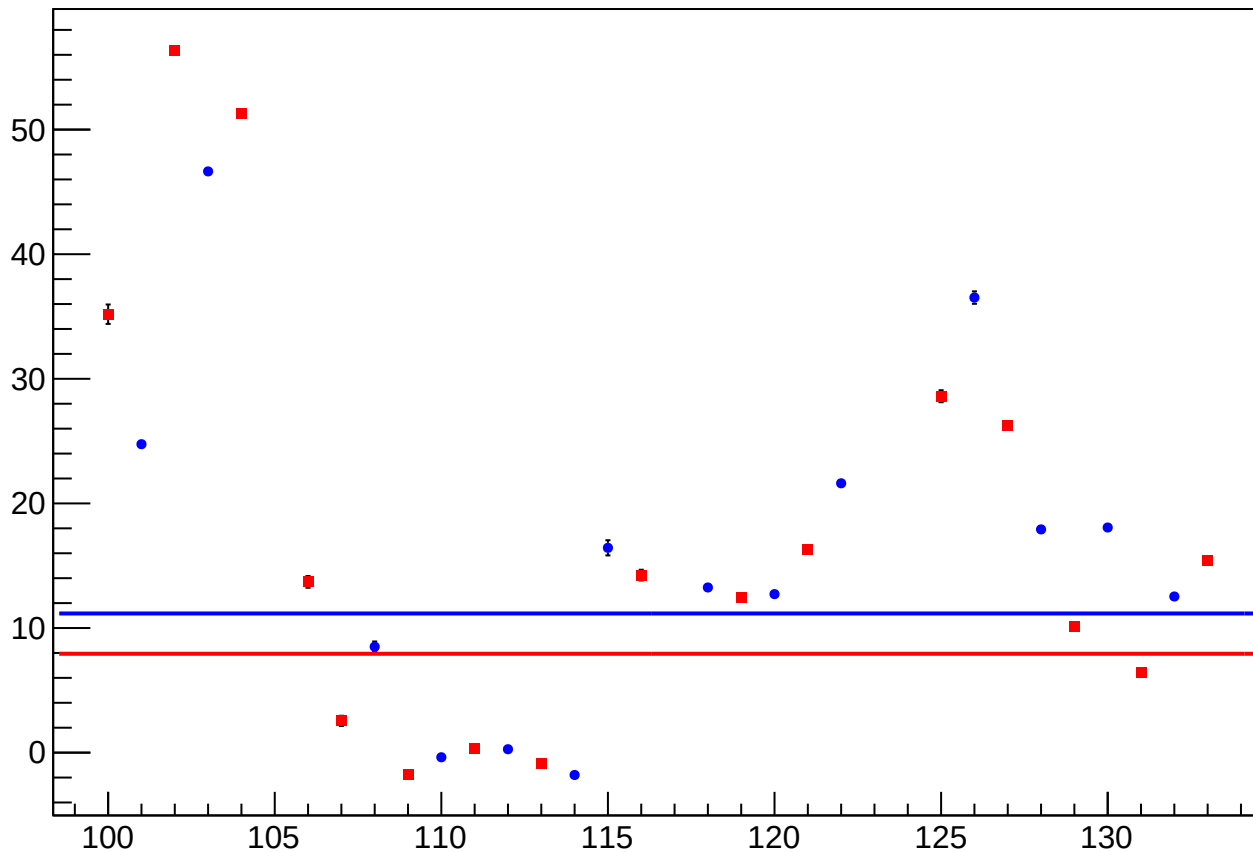
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.656 $\pm$ 0.044  $\chi^2$ /NDF: 1887.7/29

- 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: 11.168+/-0.071  $\chi^2/\text{NDF}$ : 29943.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.934+/-0.063  $\chi^2/\text{NDF}$ : 50671.8/15

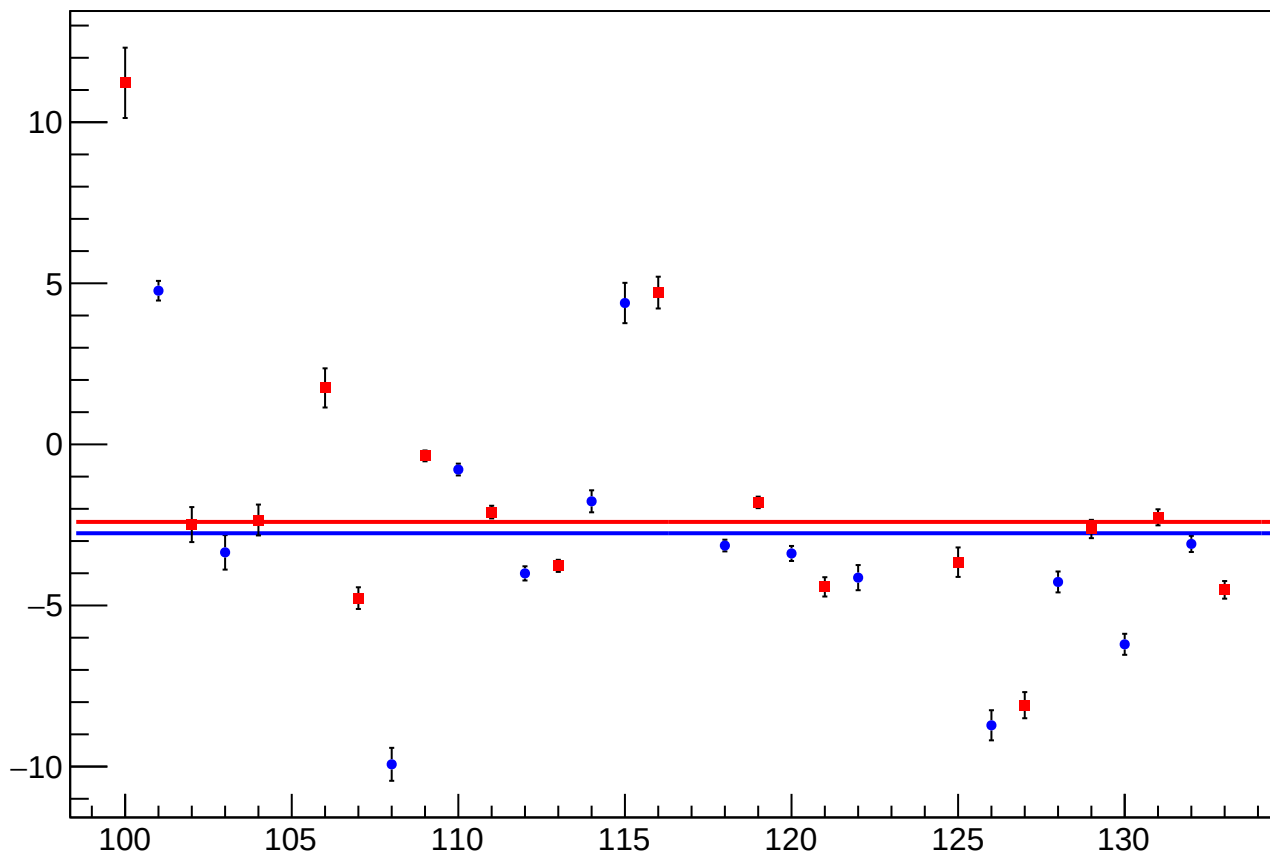
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.356+/-0.047  $\chi^2/\text{NDF}$ : 81782.6/29

- 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:  $-2.758 \pm 0.076$   $\chi^2/\text{NDF}$ : 1417.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.406 \pm 0.069$   $\chi^2/\text{NDF}$ : 985.1/15

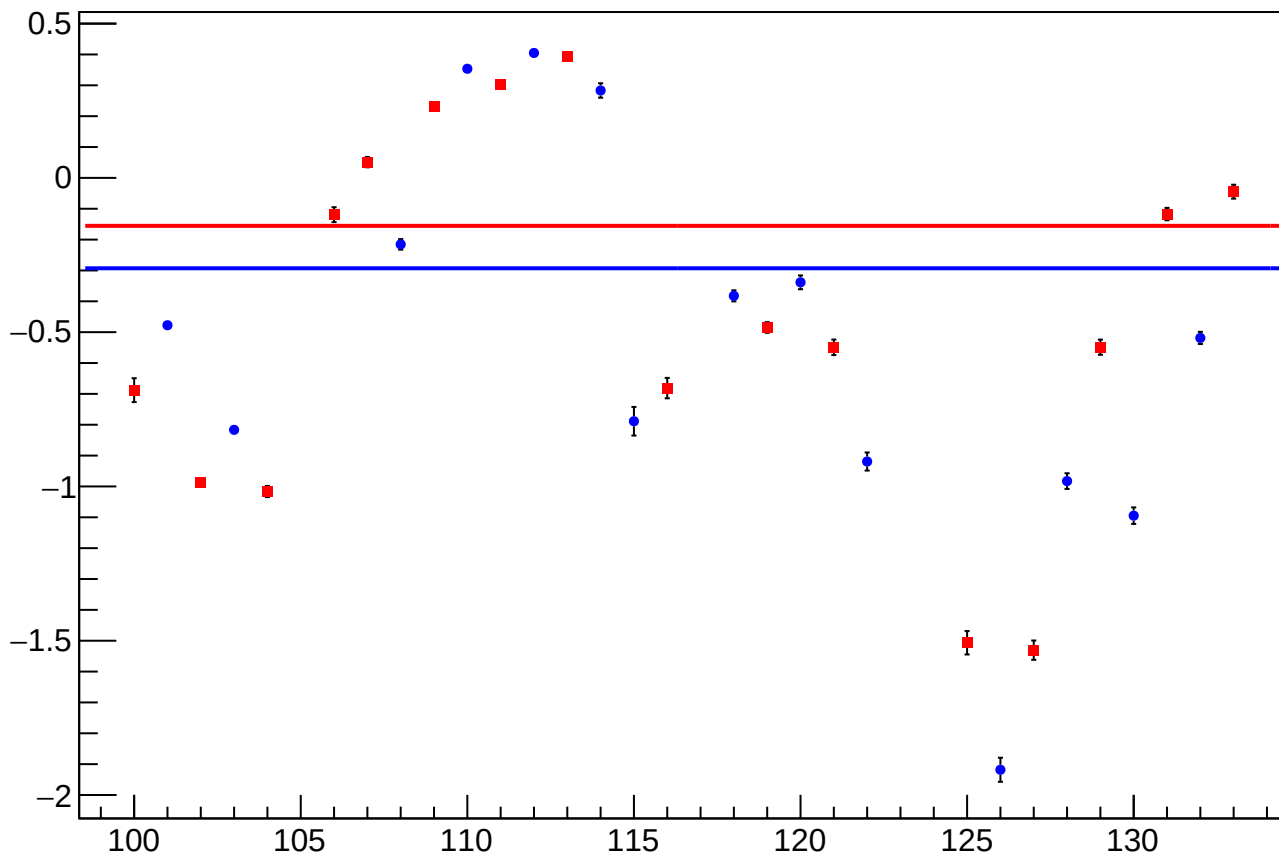
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.566 \pm 0.051$   $\chi^2/\text{NDF}$ : 2413.9/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.293 \pm 0.005$   $\chi^2/\text{NDF}$ : 11287.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.155 \pm 0.004$   $\chi^2/\text{NDF}$ : 14784.1/15

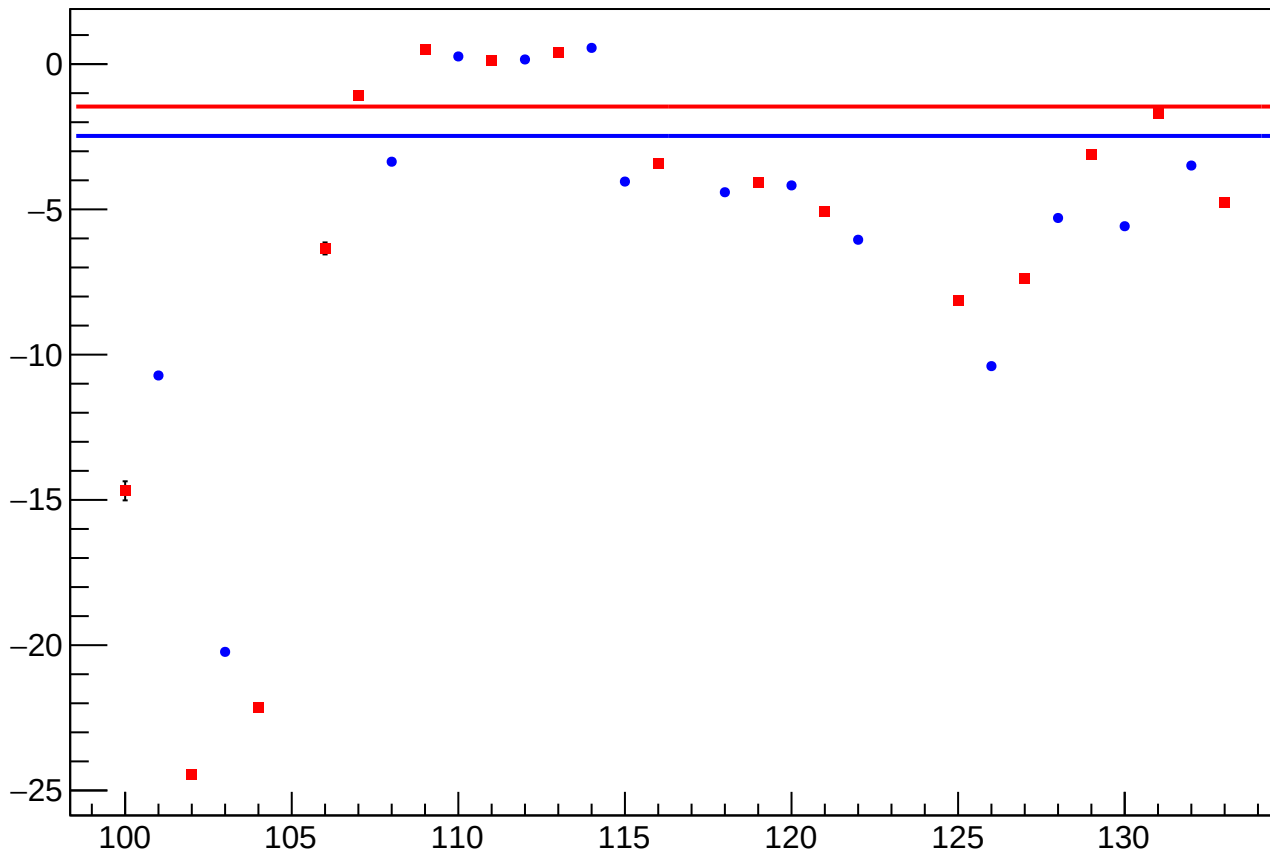
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.216 \pm 0.003$   $\chi^2/\text{NDF}$ : 26490.8/29

- 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: -2.472 $\pm$ 0.020  $\chi^2$ /NDF: 39898.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.461 $\pm$ 0.017  $\chi^2$ /NDF: 59607.3/15

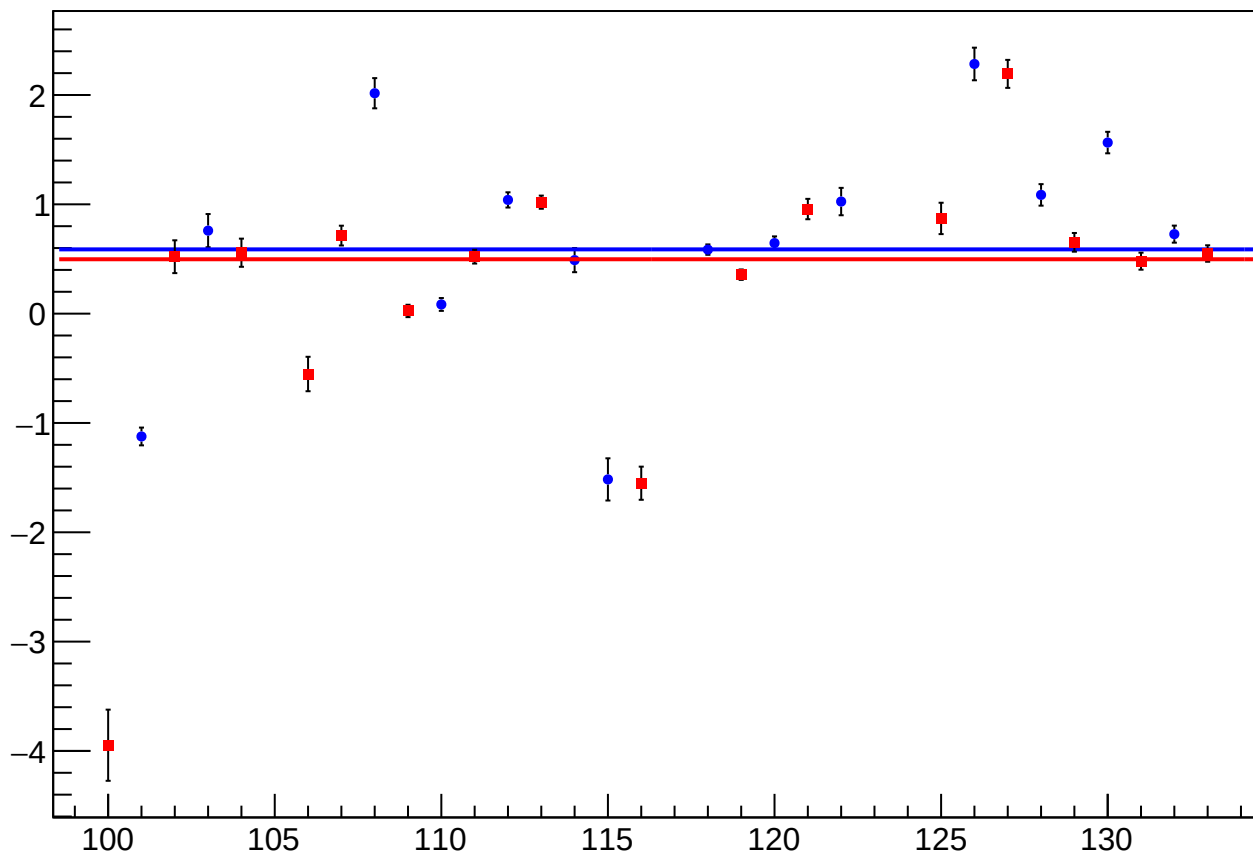
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.877 $\pm$ 0.013  $\chi^2$ /NDF: 101017.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_2an\_us\_an\_ds\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.588 $\pm$ 0.022  $\chi^2$ /NDF: 1056.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.497 $\pm$ 0.021  $\chi^2$ /NDF: 783.9/15

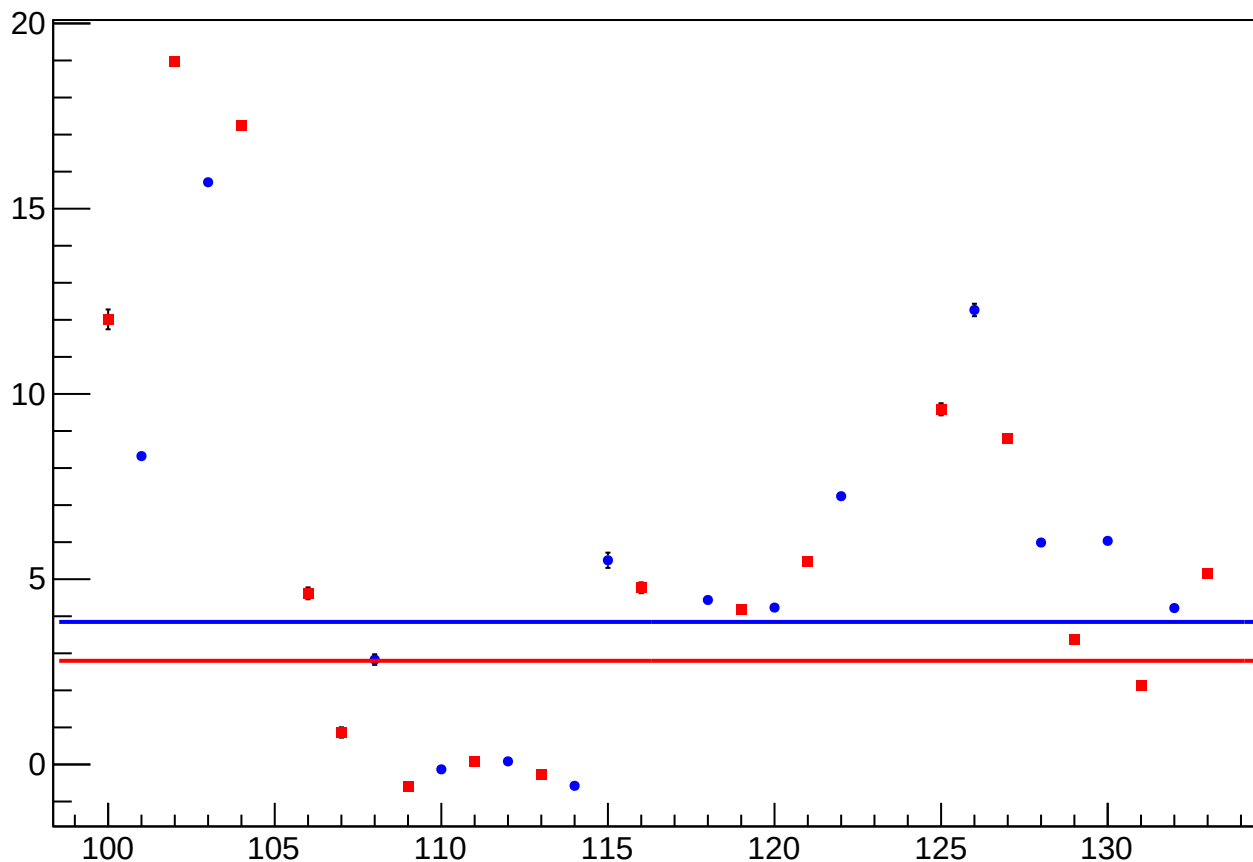
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.540 $\pm$ 0.015  $\chi^2$ /NDF: 1849.2/29

- 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: 3.847 $\pm$ 0.024  $\chi^2$ /NDF: 28911.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.798 $\pm$ 0.022  $\chi^2$ /NDF: 49178.0/15

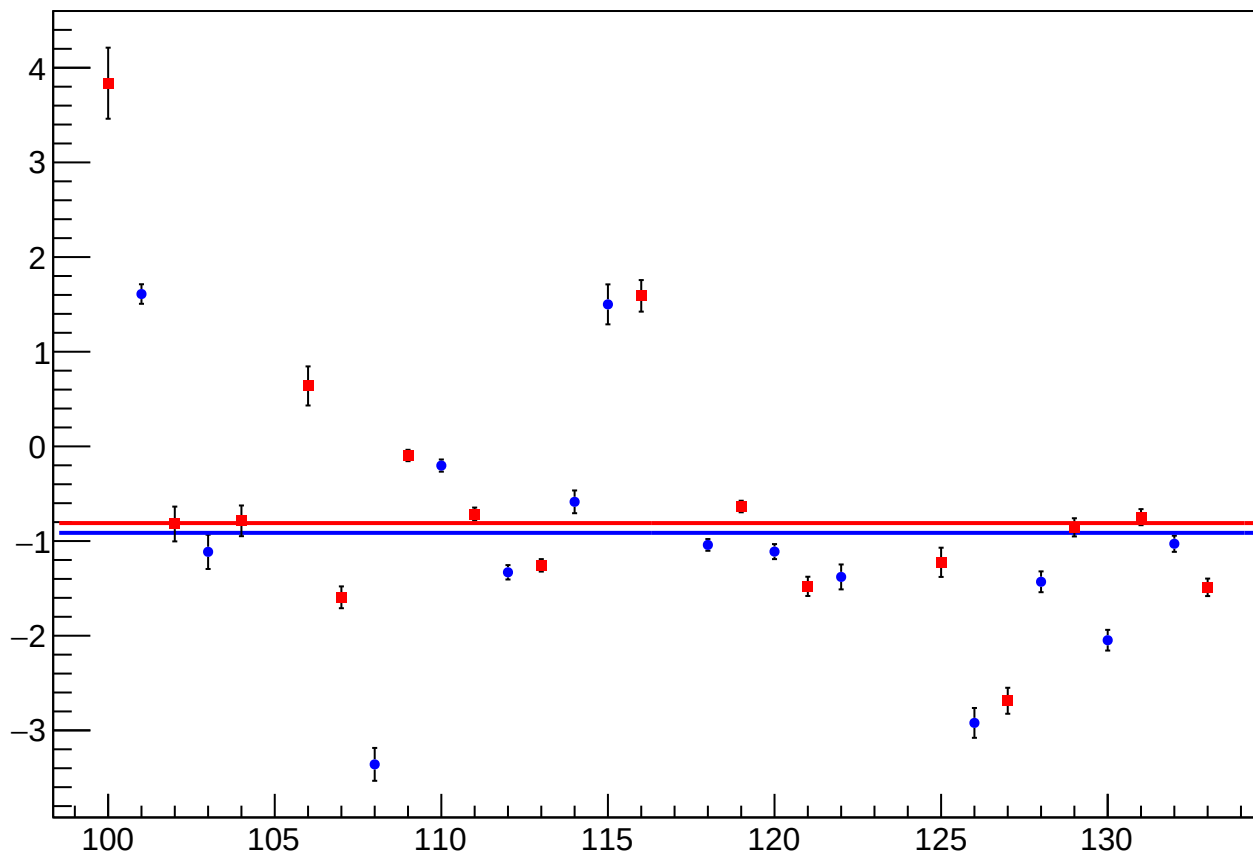
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.264 $\pm$ 0.016  $\chi^2$ /NDF: 79125.2/29

- 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:  $-0.913 \pm 0.026$   $\chi^2/\text{NDF}$ : 1402.9/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.810 \pm 0.024$   $\chi^2/\text{NDF}$ : 946.0/15

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

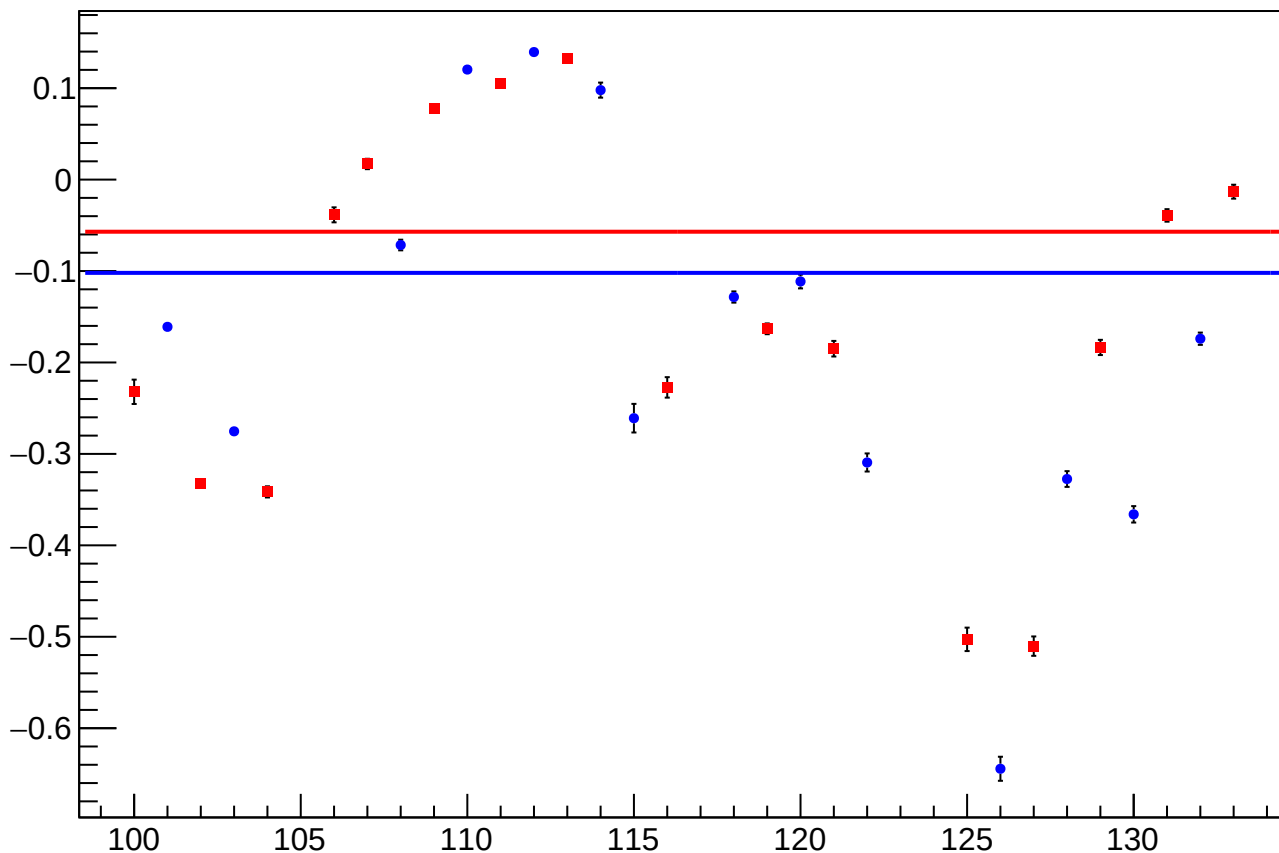
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.857 \pm 0.018$   $\chi^2/\text{NDF}$ : 2357.5/29

- 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:  $-0.102 \pm 0.002$   $\chi^2/\text{NDF}: 10933.2/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.057 \pm 0.002$   $\chi^2/\text{NDF}: 14223.5/15$

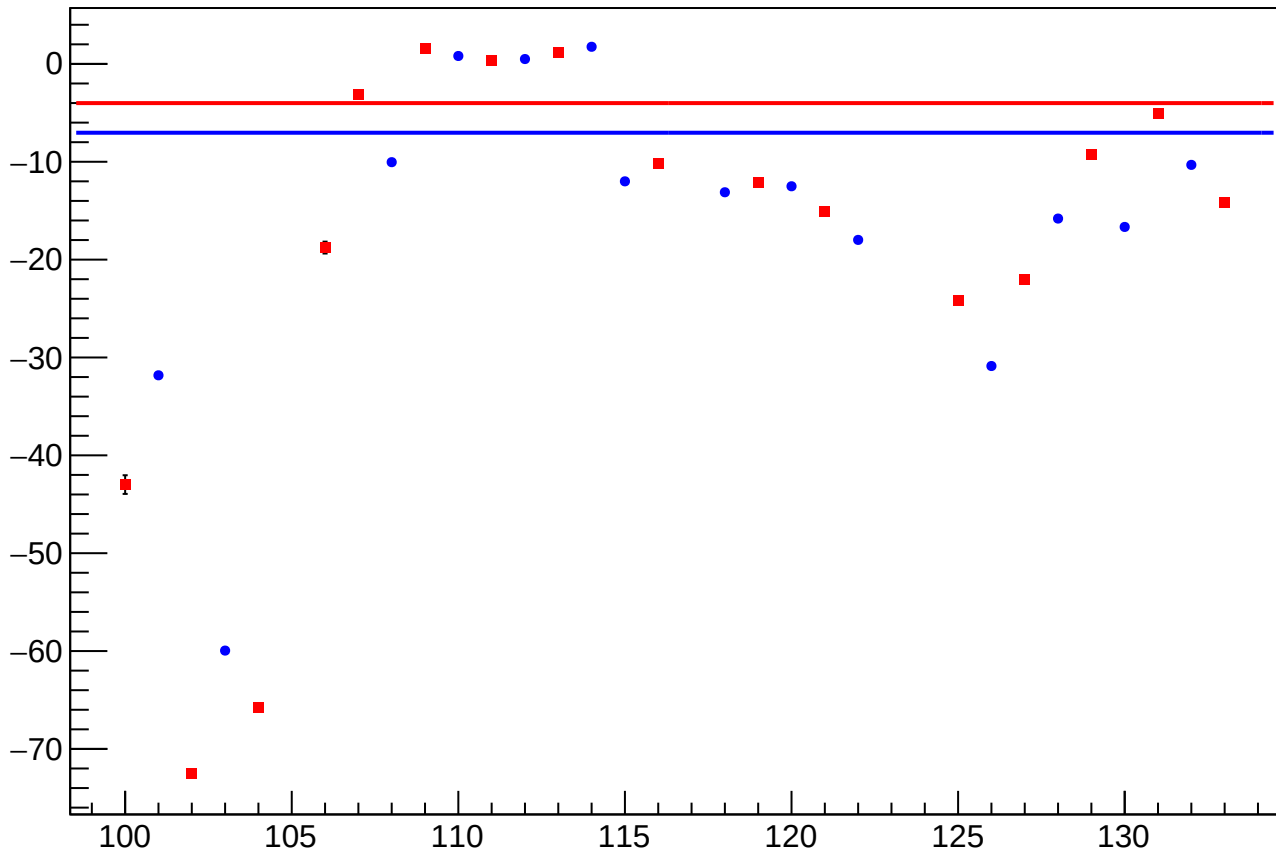
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.077 \pm 0.001$   $\chi^2/\text{NDF}: 25536.4/29$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In: -7.033+/-0.058  $\chi^2$ /NDF: 41128.2/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -4.005+/-0.048  $\chi^2$ /NDF: 61102.4/15

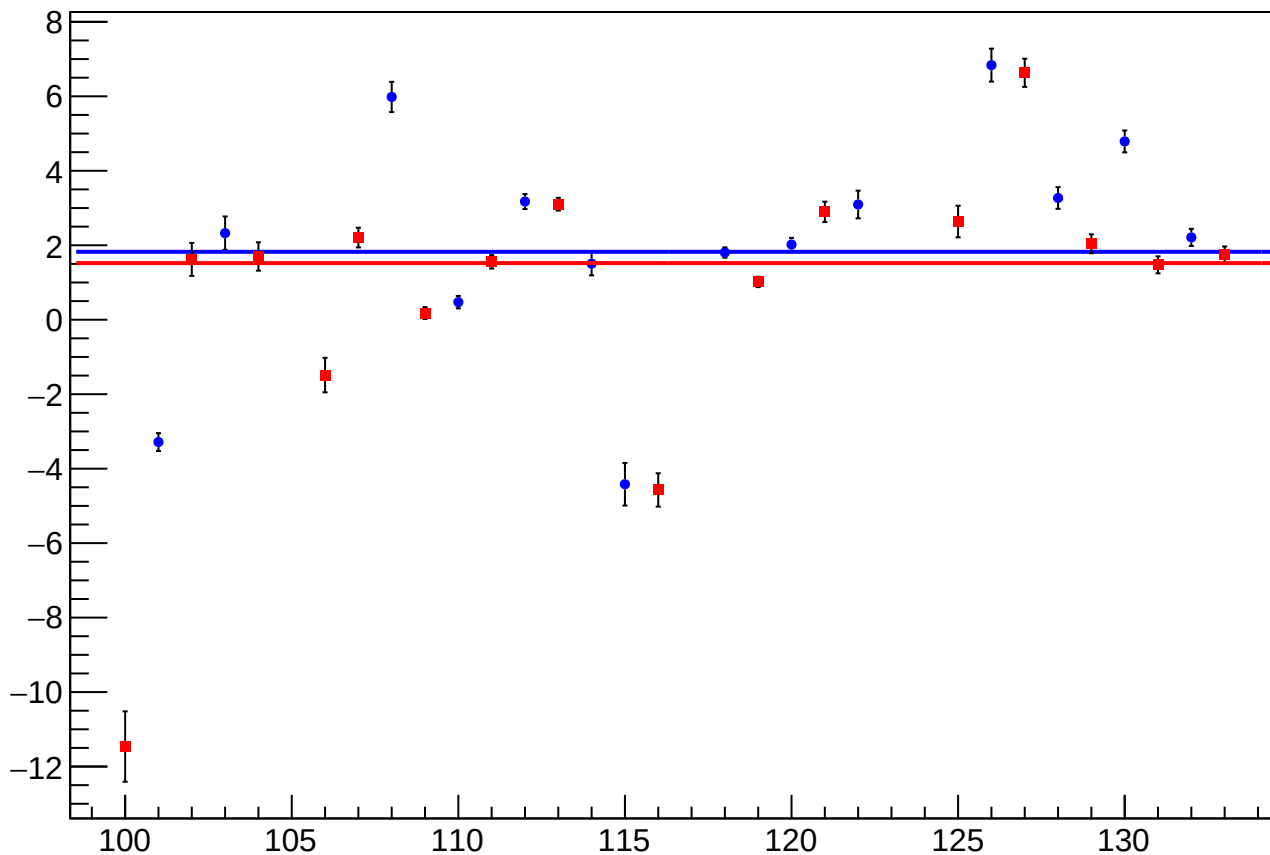
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -5.233+/-0.037  $\chi^2$ /NDF: 103861.5/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 1.824+/-0.065  $\chi^2/\text{NDF}$ : 1062.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.521+/-0.060  $\chi^2/\text{NDF}$ : 812.7/15

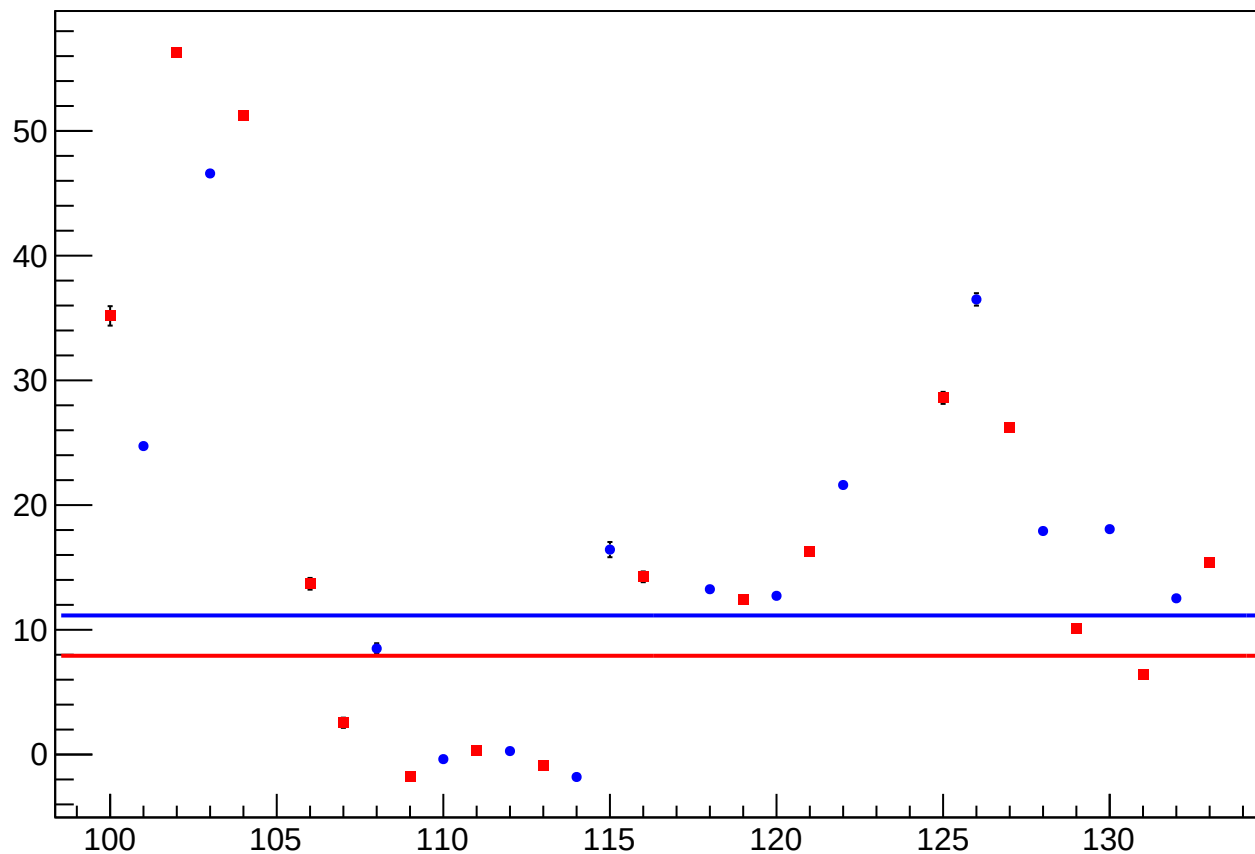
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.662+/-0.044  $\chi^2/\text{NDF}$ : 1886.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 11.150+/-0.071  $\chi^2/\text{NDF}$ : 29972.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7.918+/-0.063  $\chi^2/\text{NDF}$ : 50704.3/15

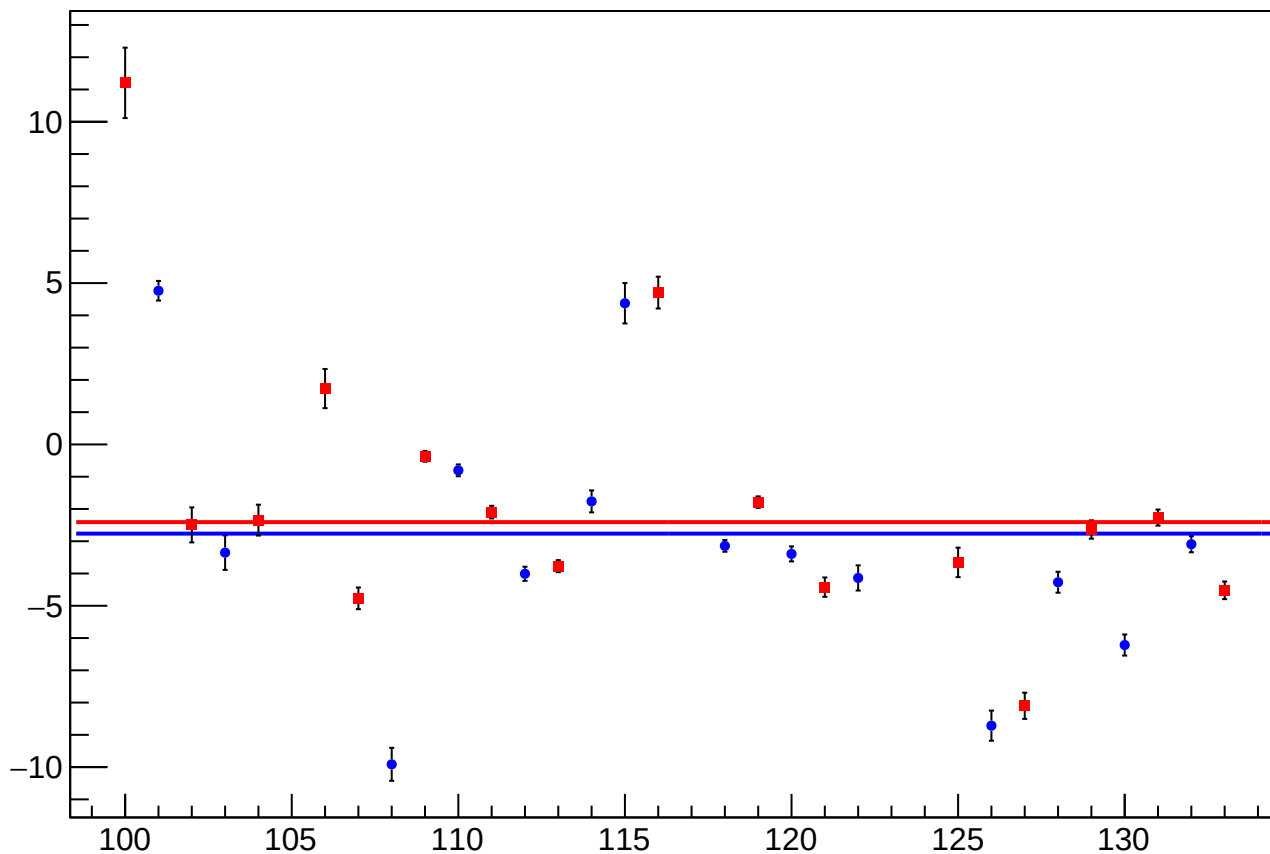
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.339+/-0.047  $\chi^2/\text{NDF}$ : 81845.7/29

- 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:  $-2.764 \pm 0.076$   $\chi^2/\text{NDF}$ : 1415.4/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.408 \pm 0.069$   $\chi^2/\text{NDF}$ : 985.4/15

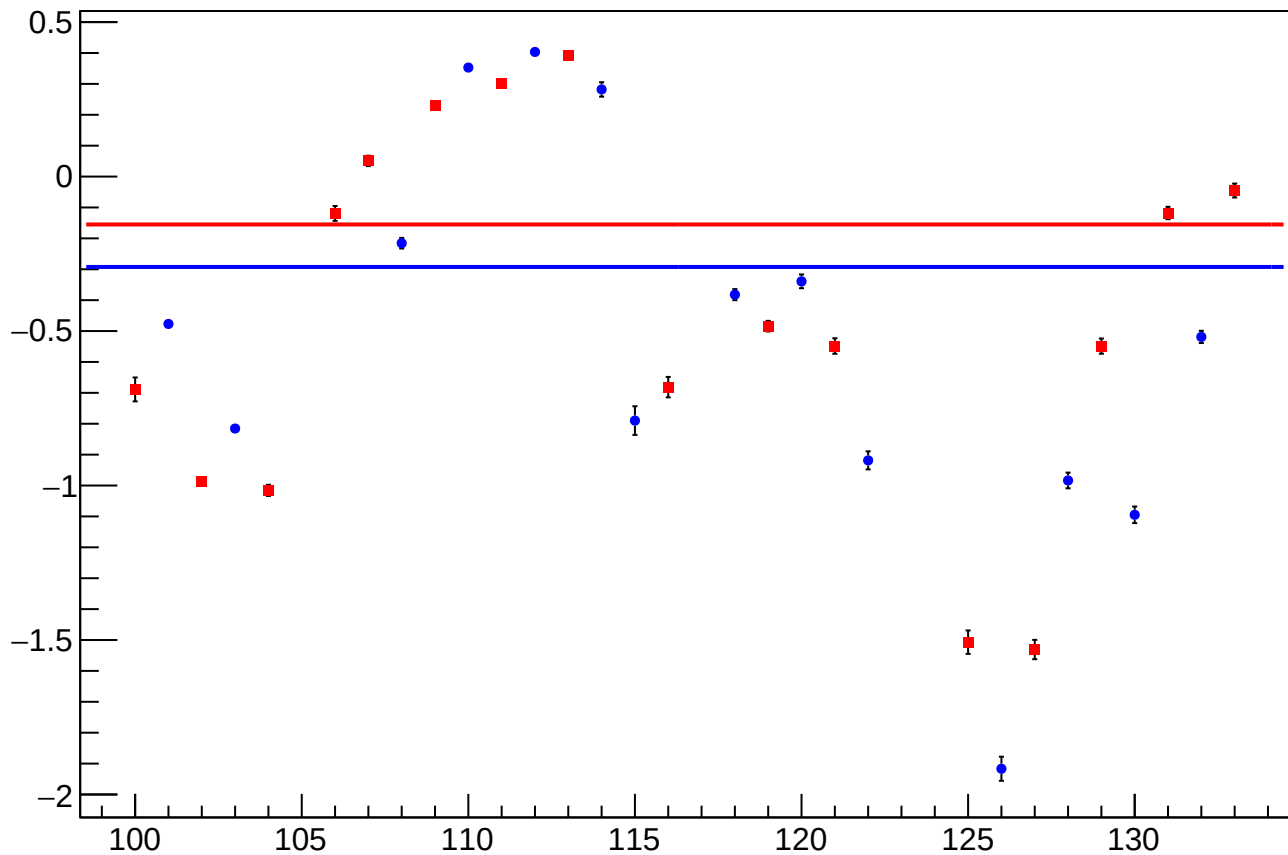
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.569 \pm 0.051$   $\chi^2/\text{NDF}$ : 2412.9/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.293 \pm 0.005$   $\chi^2/\text{NDF}: 11288.3/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.155 \pm 0.004$   $\chi^2/\text{NDF}: 14795.8/15$

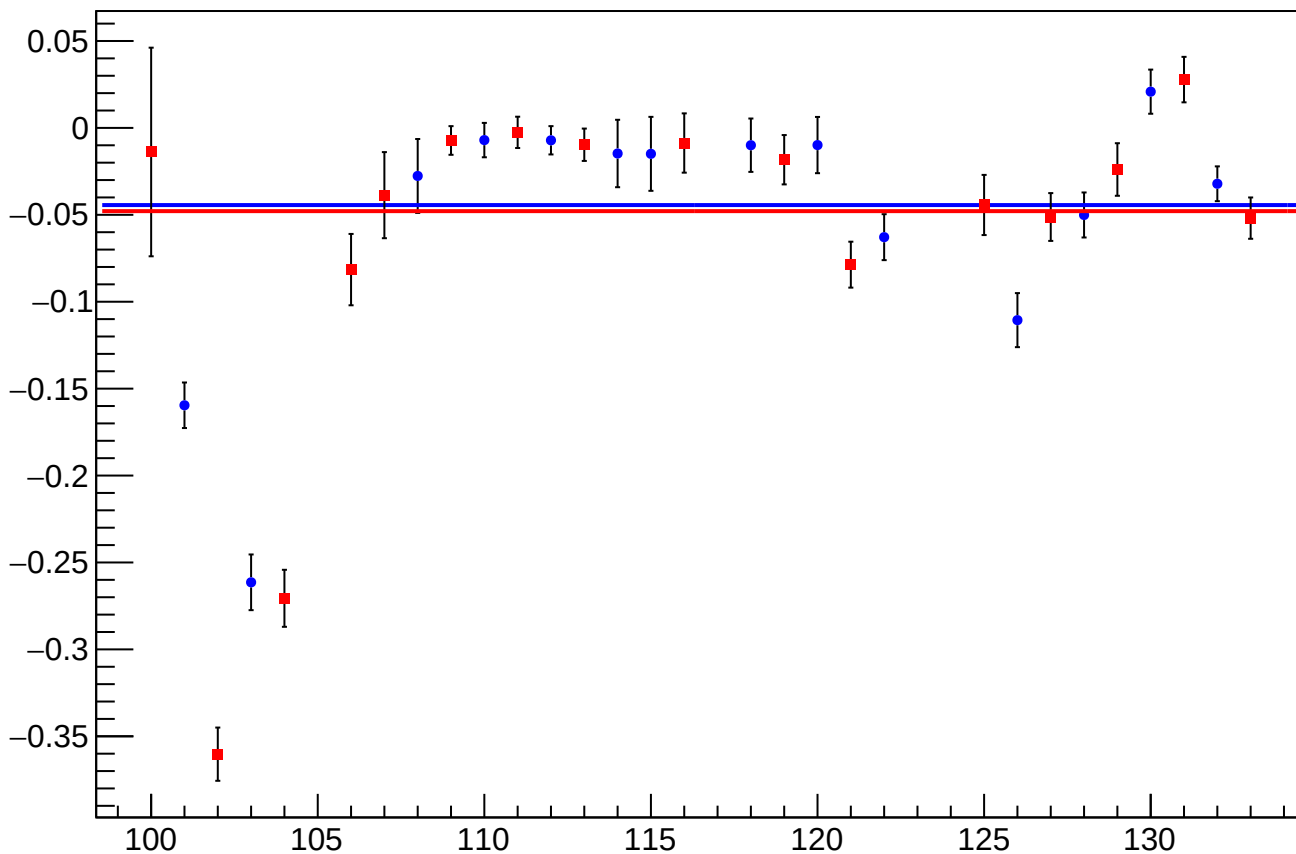
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.216 \pm 0.003$   $\chi^2/\text{NDF}: 26503.6/29$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $-0.044 \pm 0.003$   $\chi^2/\text{NDF}$ : 358.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.048 \pm 0.003$   $\chi^2/\text{NDF}$ : 721.6/15

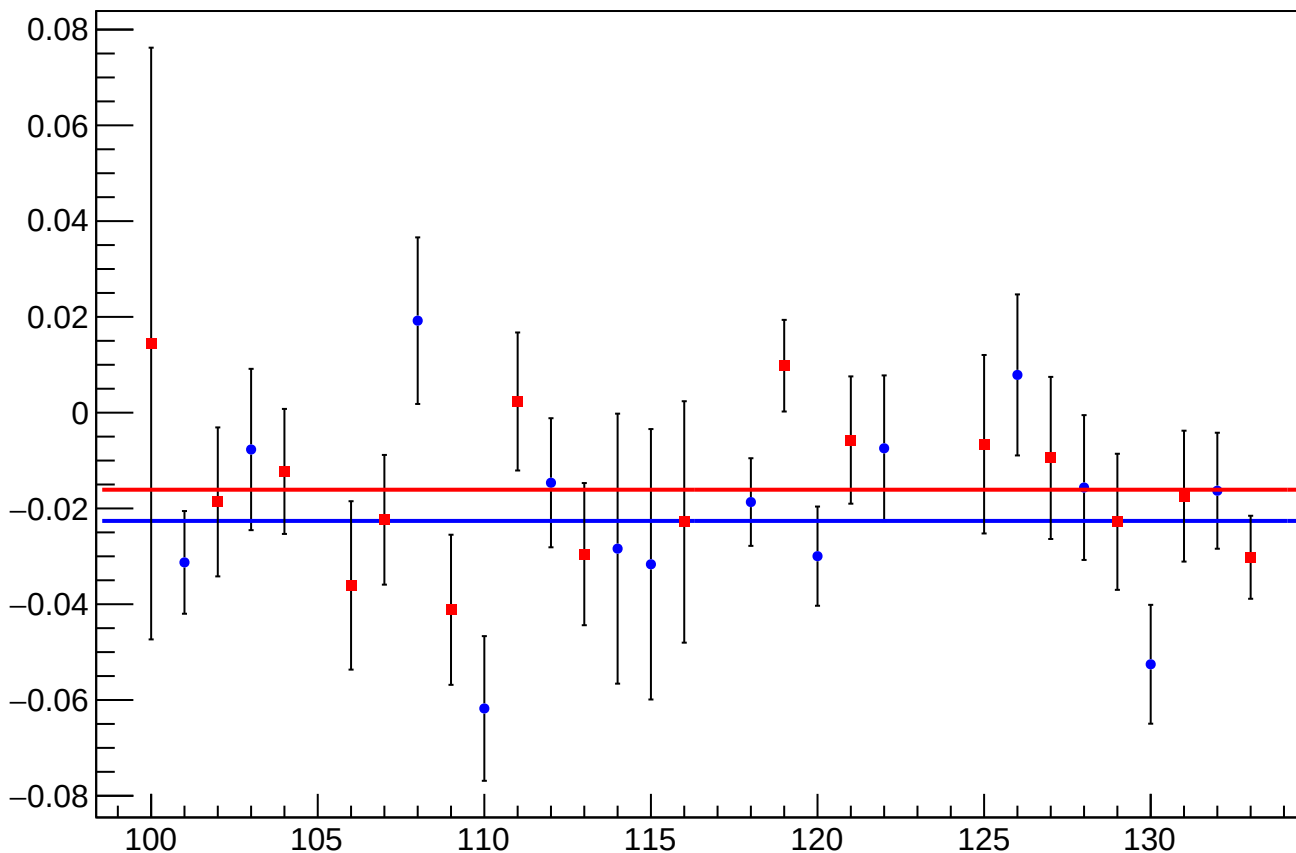
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.046 \pm 0.002$   $\chi^2/\text{NDF}$ : 1080.8/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.023 \pm 0.004$   $\chi^2/\text{NDF}$ : 25.7/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.016 \pm 0.004$   $\chi^2/\text{NDF}$ : 18.2/15

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

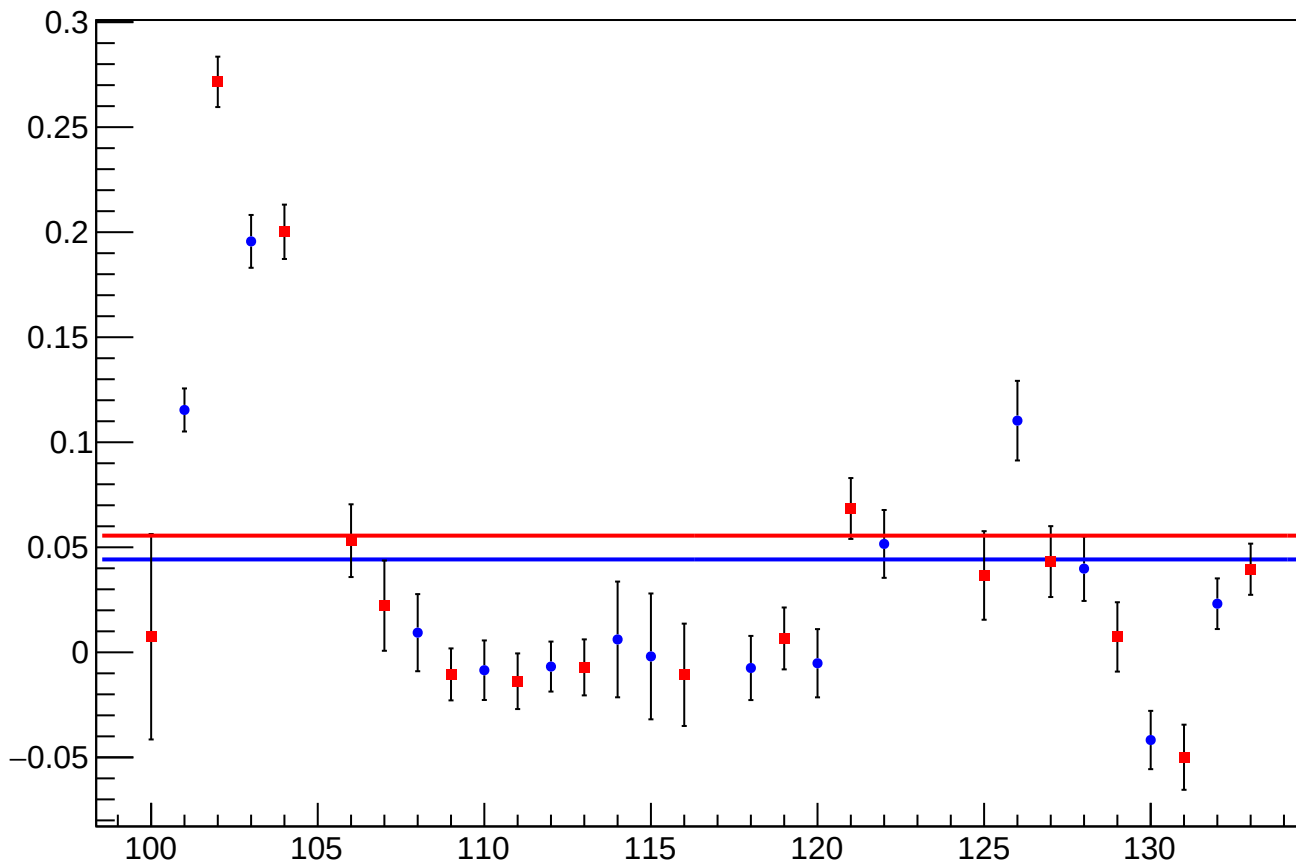
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.019 \pm 0.003$   $\chi^2/\text{NDF}$ : 45.5/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.044 $\pm$ 0.004  $\chi^2$ /NDF: 307.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.056 $\pm$ 0.004  $\chi^2$ /NDF: 607.8/15

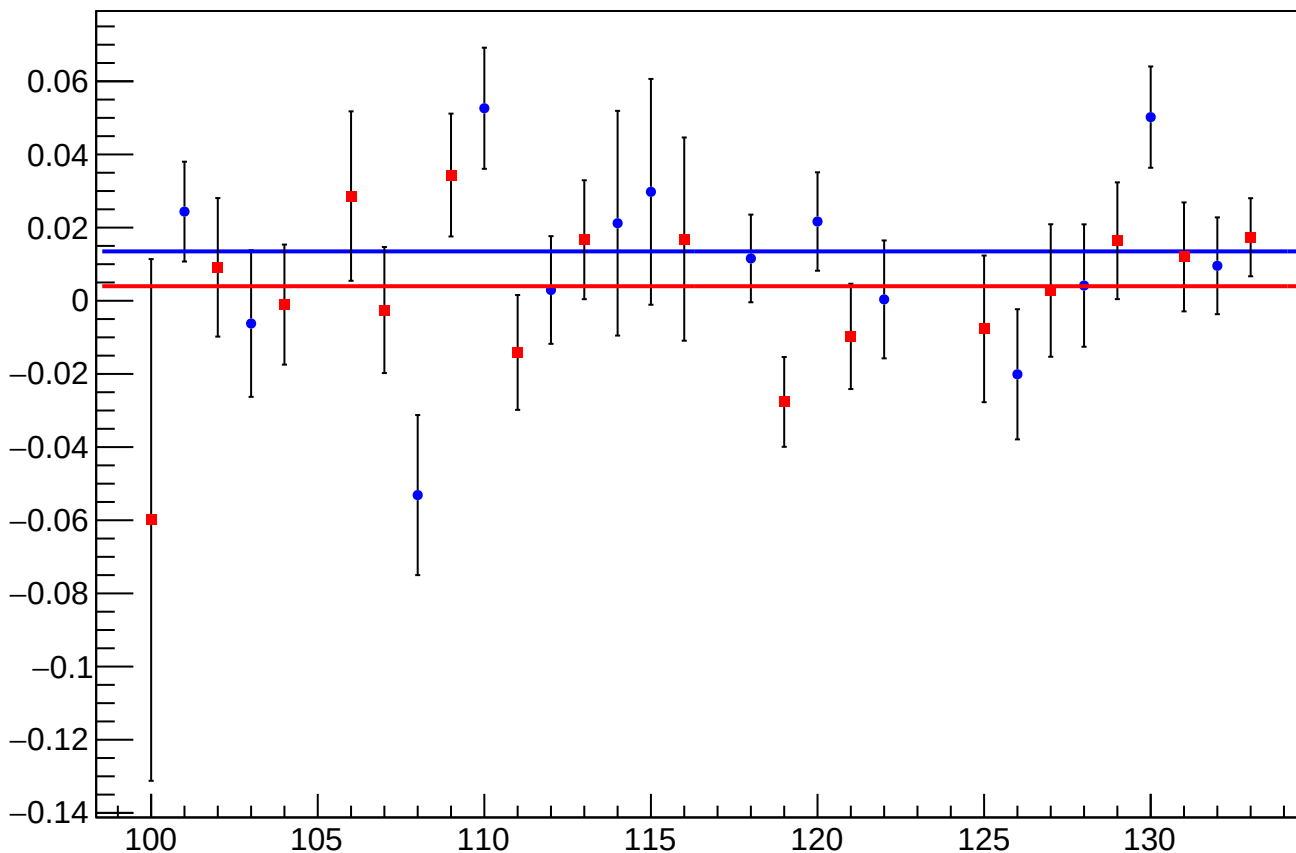
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.050 $\pm$ 0.003  $\chi^2$ /NDF: 919.9/29

- 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: 0.014 $\pm$ 0.004  $\chi^2$ /NDF: 29.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.004 $\pm$ 0.004  $\chi^2$ /NDF: 18.0/15

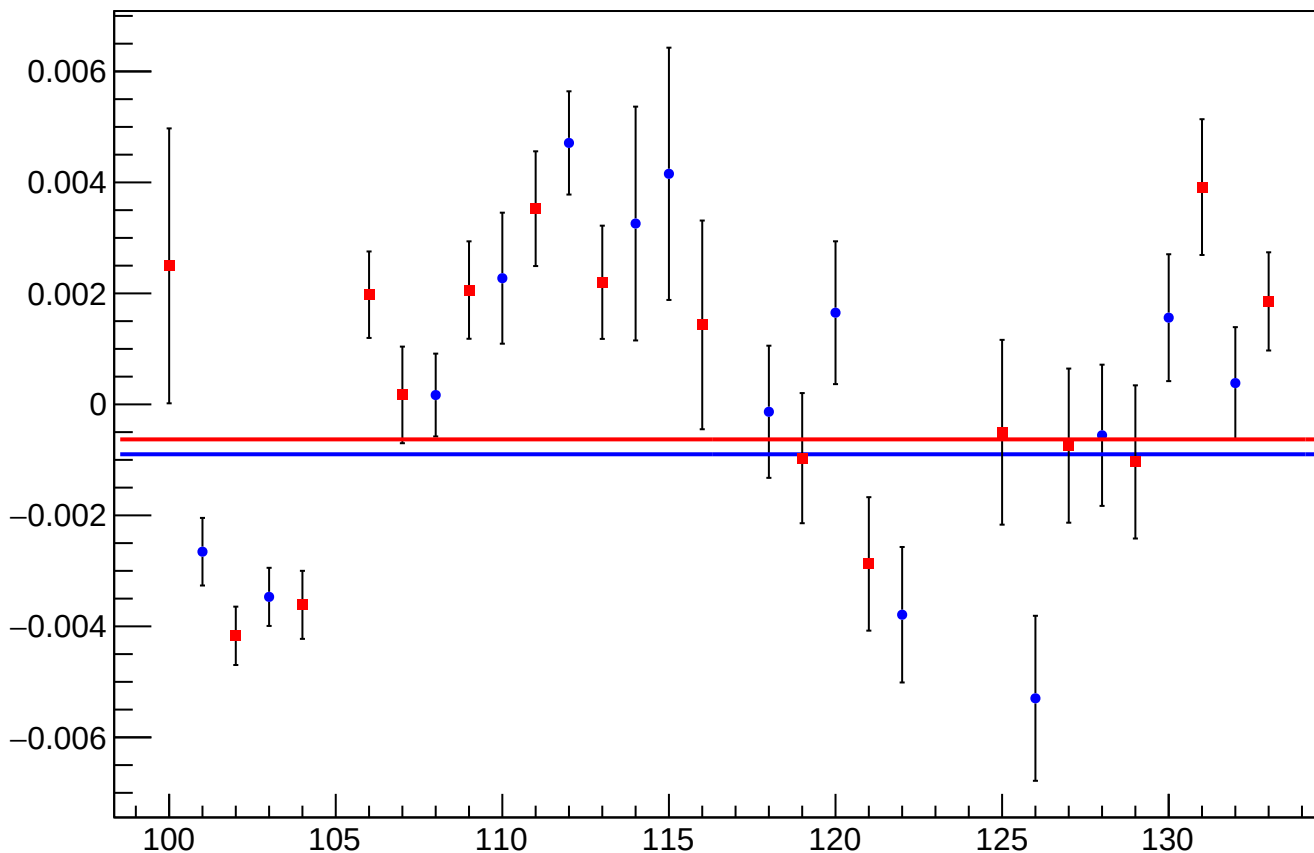
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.003  $\chi^2$ /NDF: 50.0/29

- 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  $\chi^2/\text{NDF}$ : 111.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.001+/-0.000  $\chi^2/\text{NDF}$ : 142.5/15

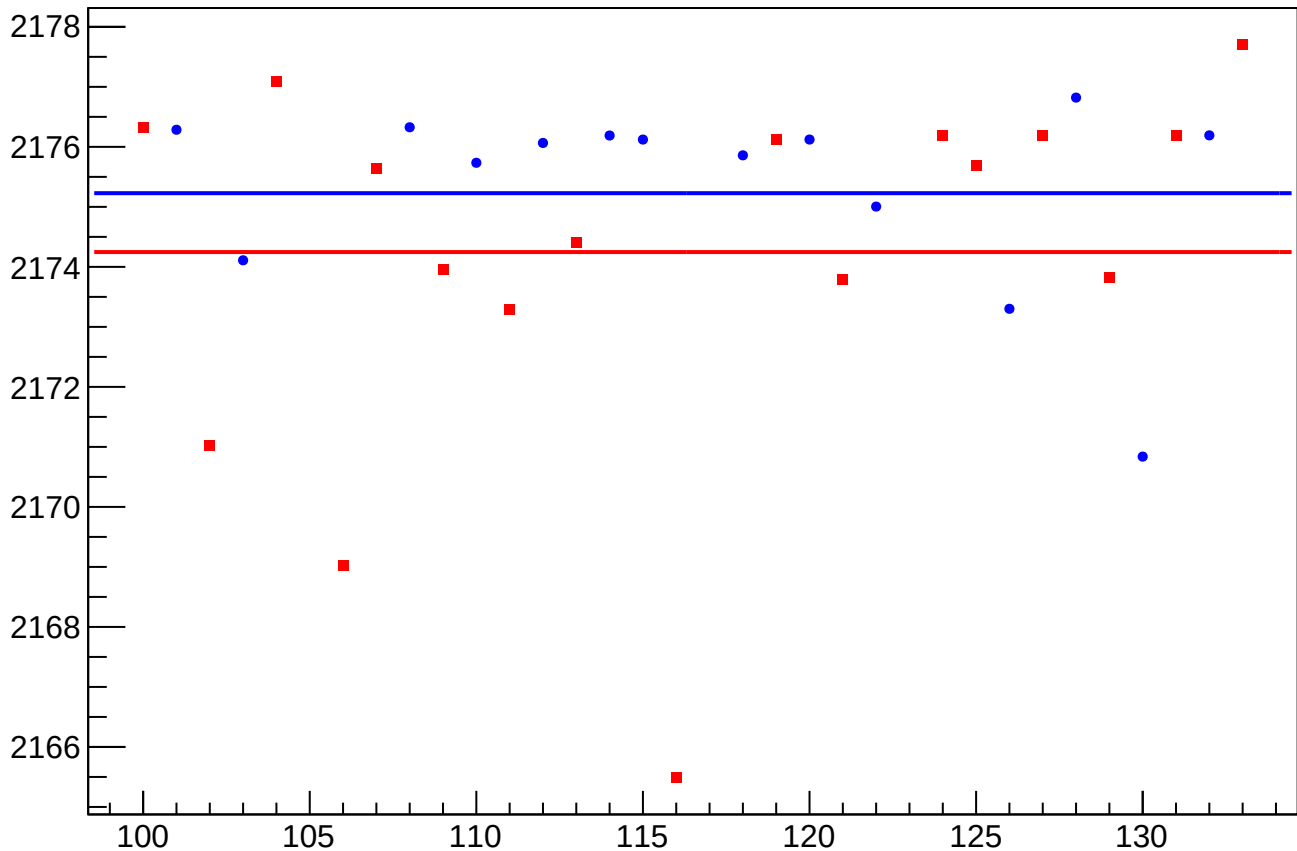
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.001+/-0.000  $\chi^2/\text{NDF}$ : 254.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# HALLA\_p\_mean vs Slug



Right In: 2175.228 $\pm$ 0.000  $\chi^2$ /NDF: 1693003189392552305052158181507072.0/13

+ 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

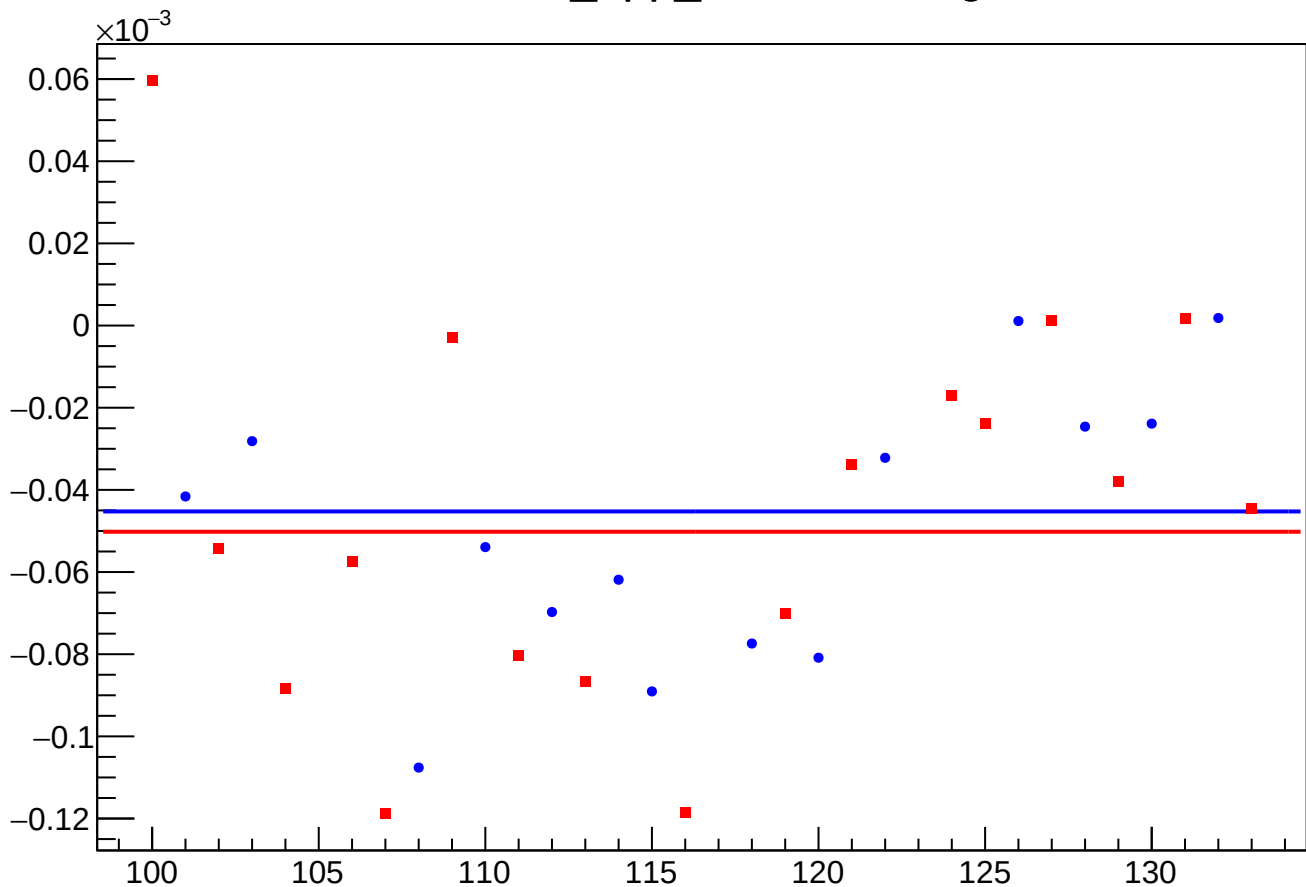
All: 2174.709 $\pm$ 0.000  $\chi^2$ /NDF: 74688609525

Right Out: 2174.247 $\pm$ 0.000  $\chi^2$ /NDF: 5463910188575705856848253230776320.0/16

- 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

# HALLA\_dpp\_mean vs Slug



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 585612761617918811176960.0/13

+ 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

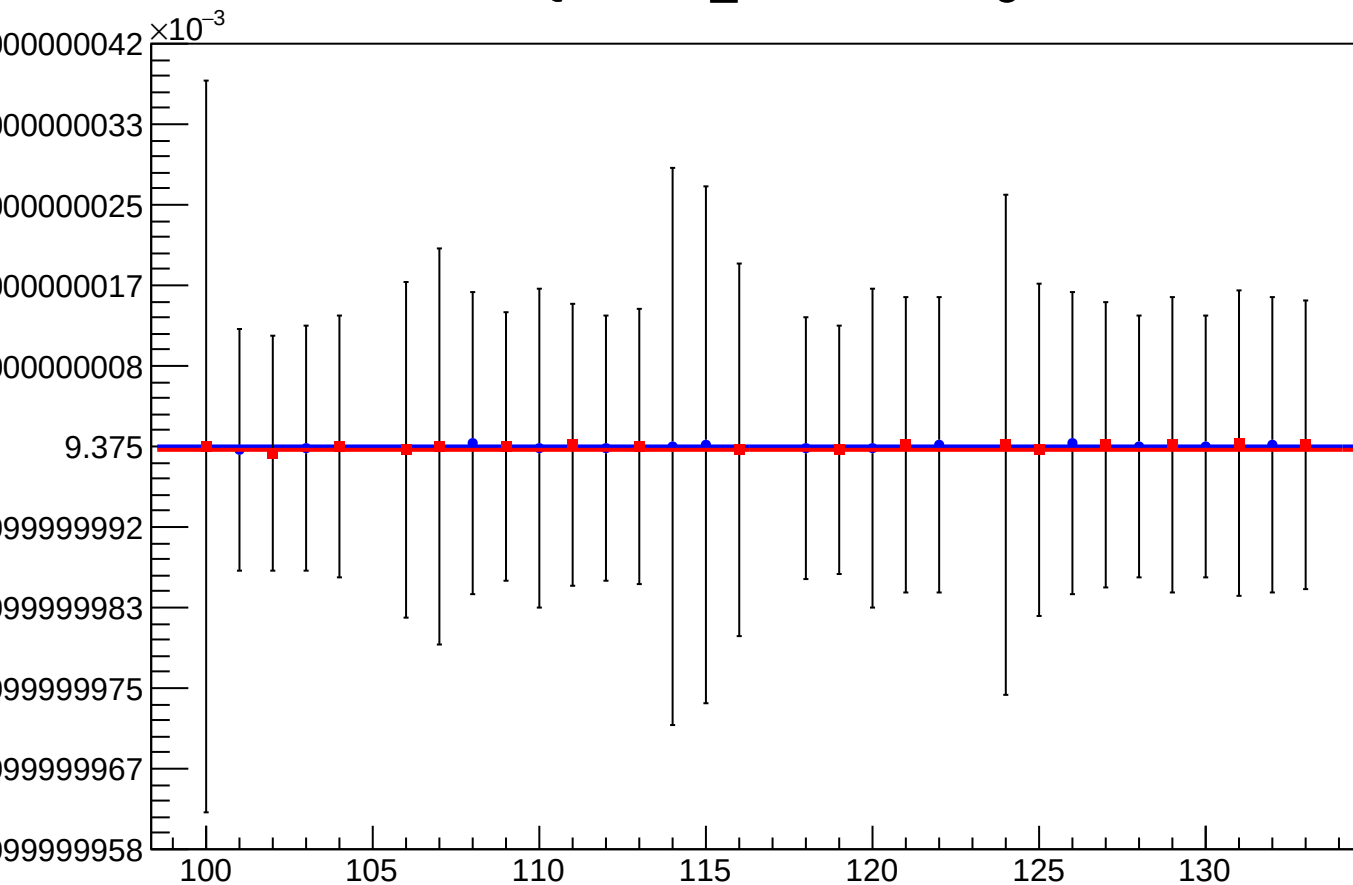
All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1536763734572

Right Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 943247573086077567631360.0/16

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# MQ171LM\_mean vs Slug



Right In: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/16

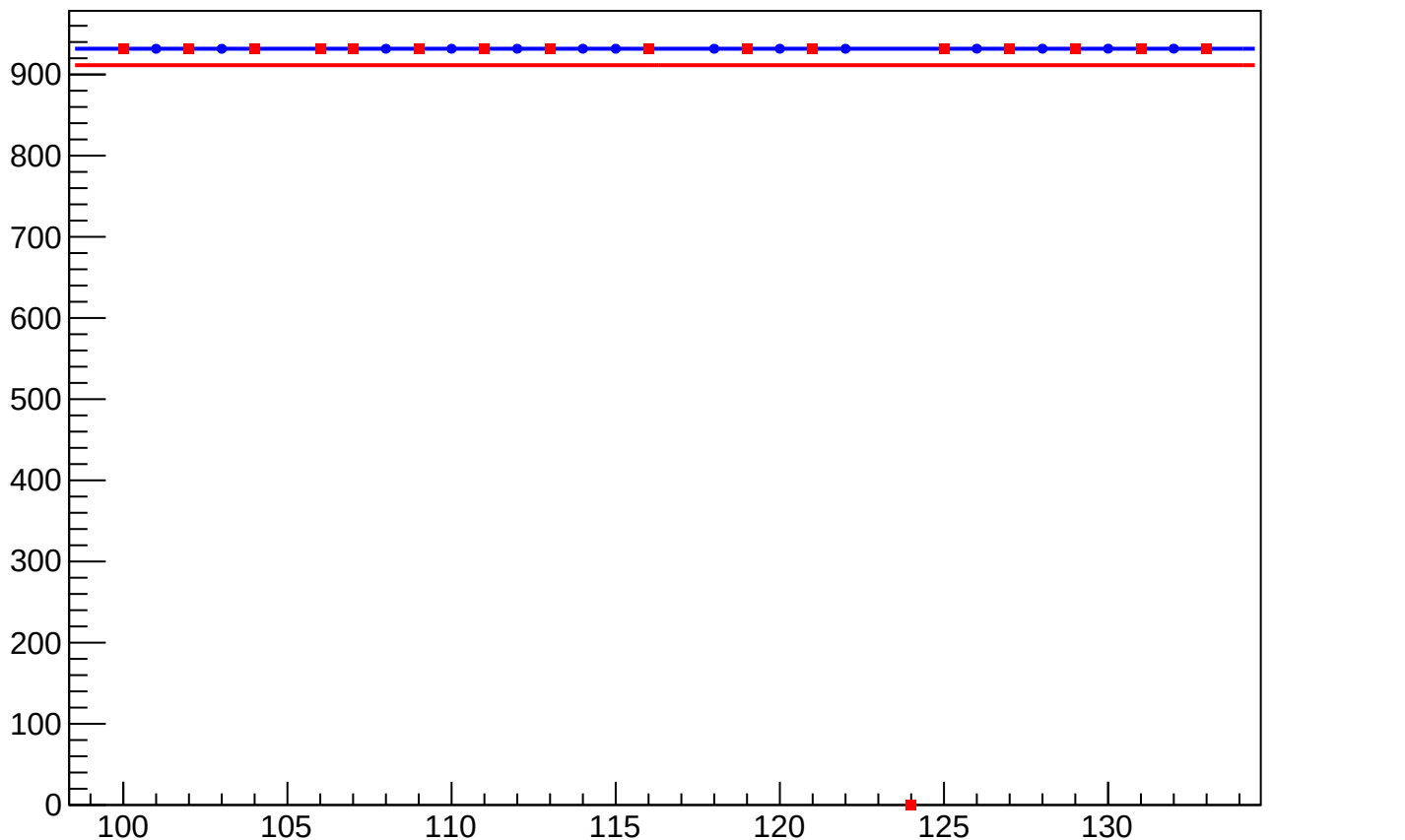
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/30

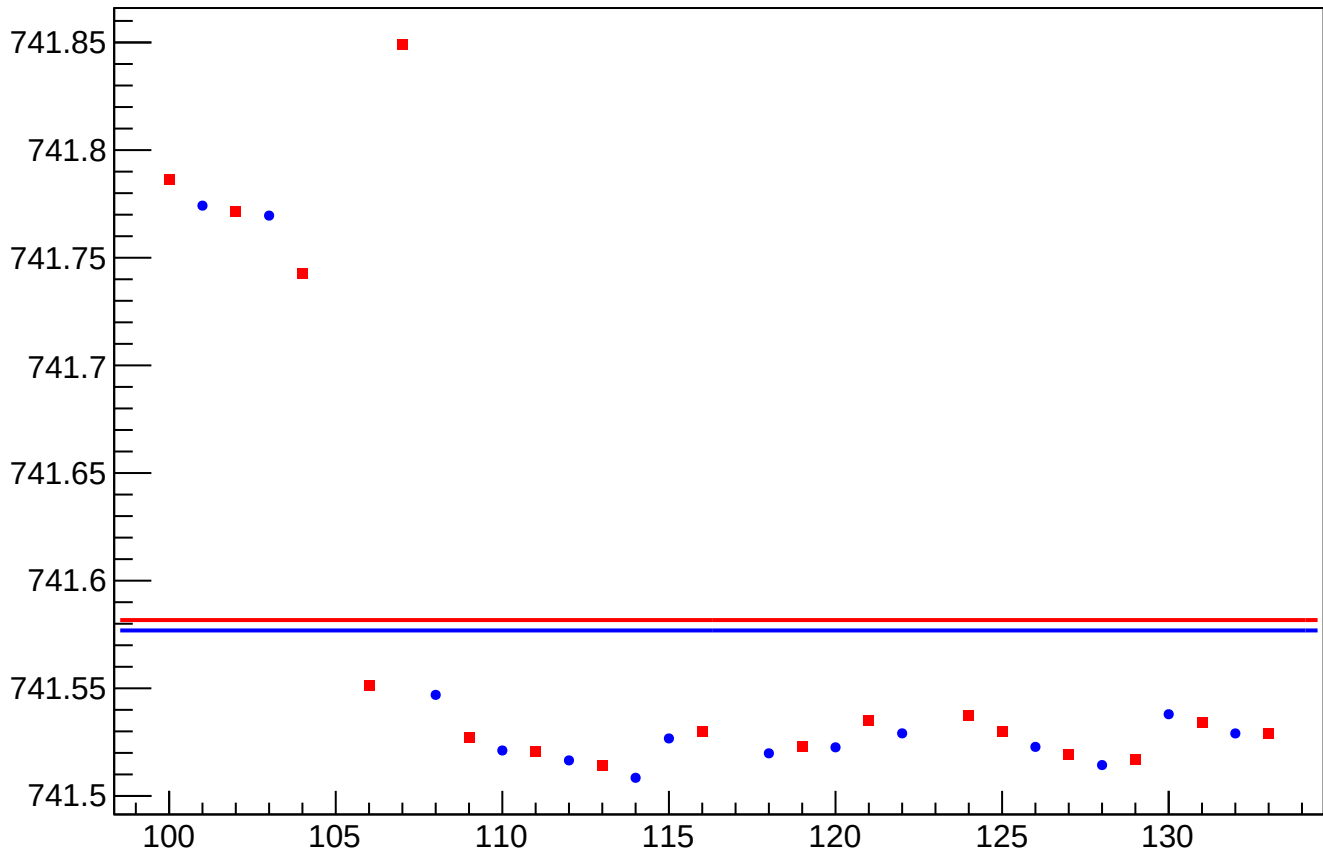
- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# HacL\_Q2\_HP3458A\_IOUT\_mean vs Slug



Right In: 931.751+/-0.000  $\chi^2/\text{NDF}$ : 1552931259817876064509129392128.0/13  
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: 911.469+/-0.000  $\chi^2/\text{NDF}$ : 12738075222279573443672087725139296256.0/16  
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 921.010+/-0.000  $\chi^2/\text{NDF}$ : 128714070597  
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# HacL\_D1\_HP3458A\_IOUT\_mean vs Slug



Right In: 741.577+/-0.000  $\chi^2/\text{NDF}$ : 6204007993375206589213194584064.0/13

+ 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: 741.579+/-0.000  $\chi^2/\text{NDF}$ : 137279829895

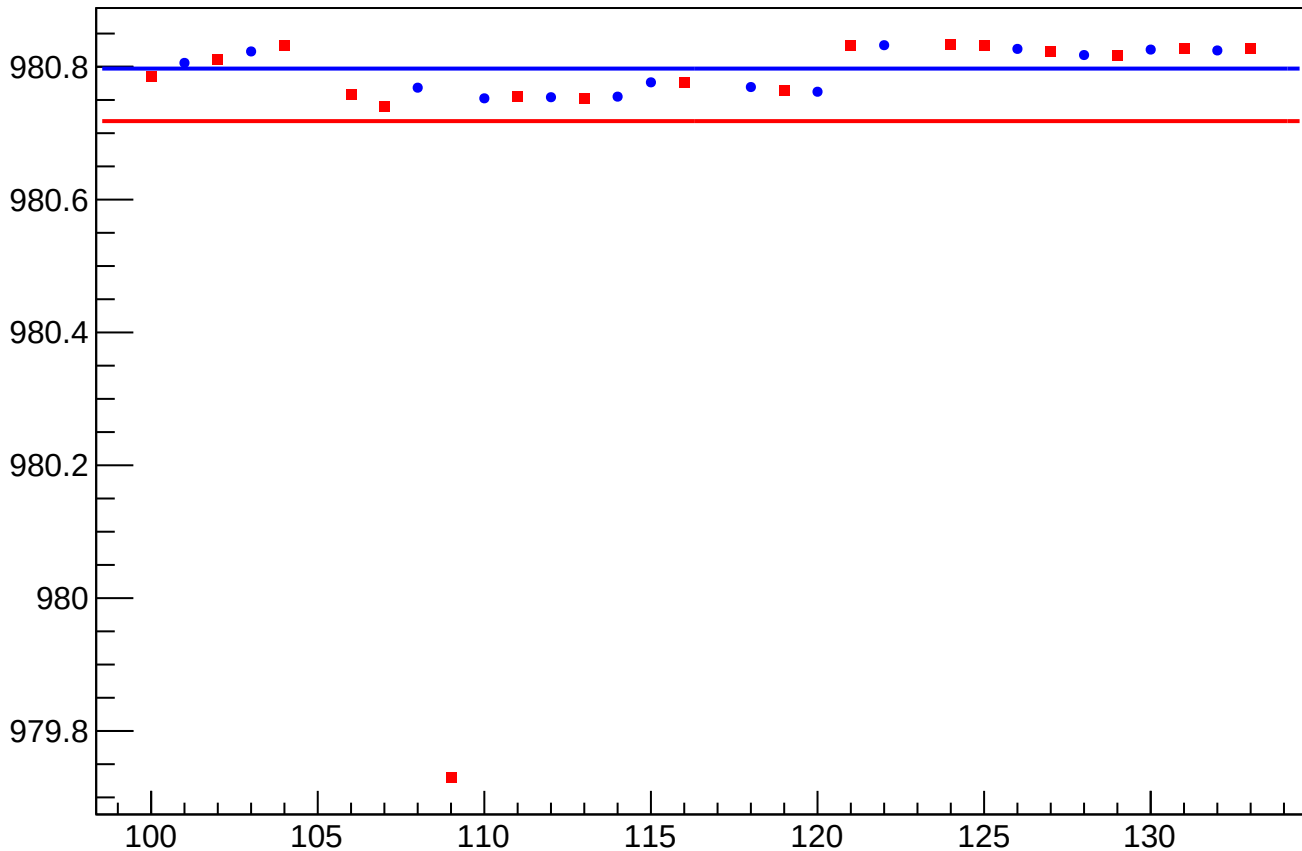
Right Out: 741.582+/-0.000  $\chi^2/\text{NDF}$ : 7516438755858722986707988250624.0/16

- 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: 980.797+/-0.000  $\chi^2/\text{NDF}$ : 556202385605080619562756472832.0/13

+ 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

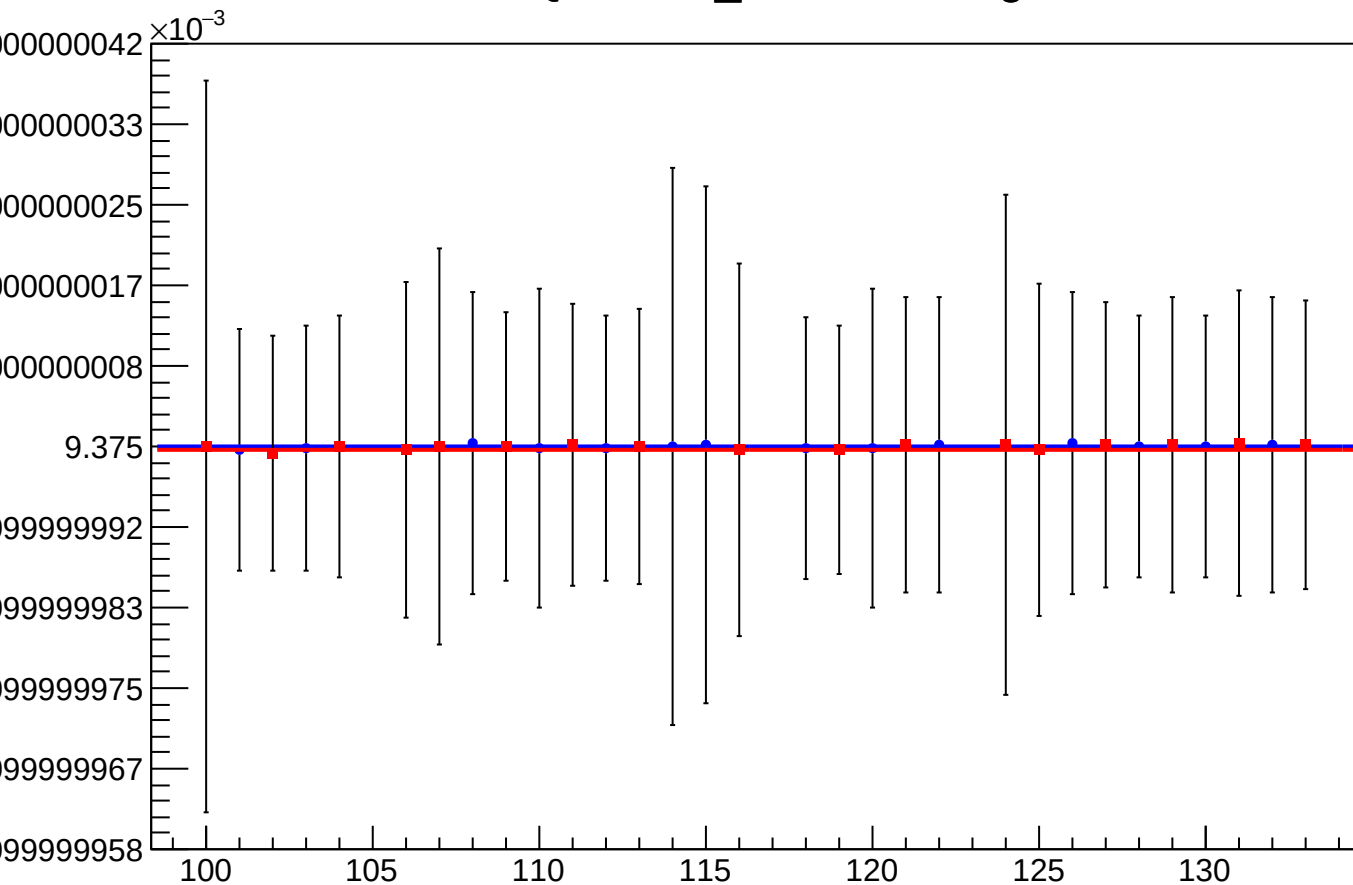
All: 980.755+/-0.000  $\chi^2/\text{NDF}$ : 582658678520.0/16

Right Out: 980.718+/-0.000  $\chi^2/\text{NDF}$ : 55682233057488013164027496628224.0/16

- 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

# MQ172RM\_mean vs Slug



Right In: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/16

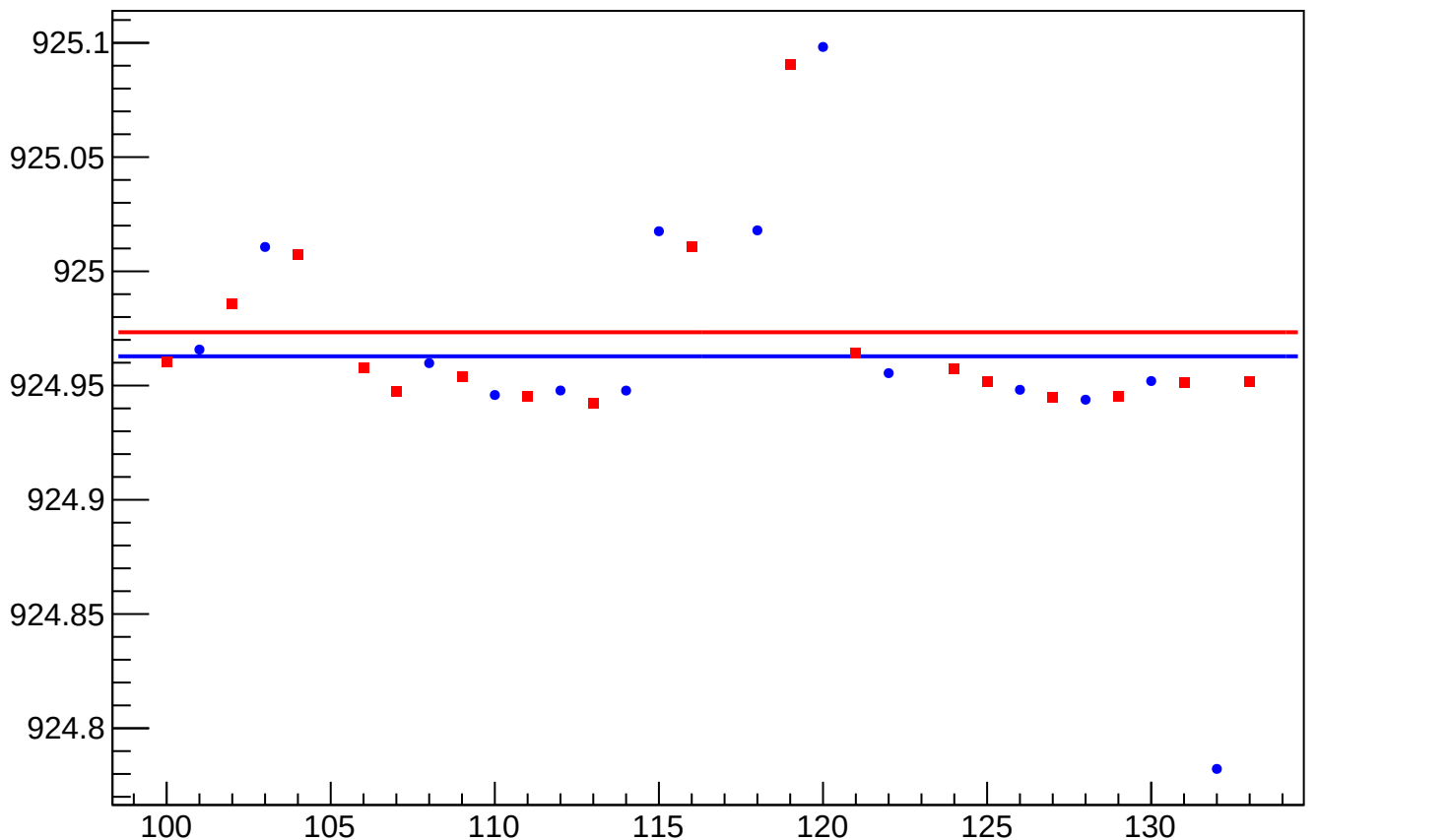
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# HacR\_Q2\_HP3458A\_IOUT\_mean vs Slug



Right In: 924.963+/-0.000  $\chi^2/\text{NDF}$ : 2497336729228389461938155814912.0/13

+ 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

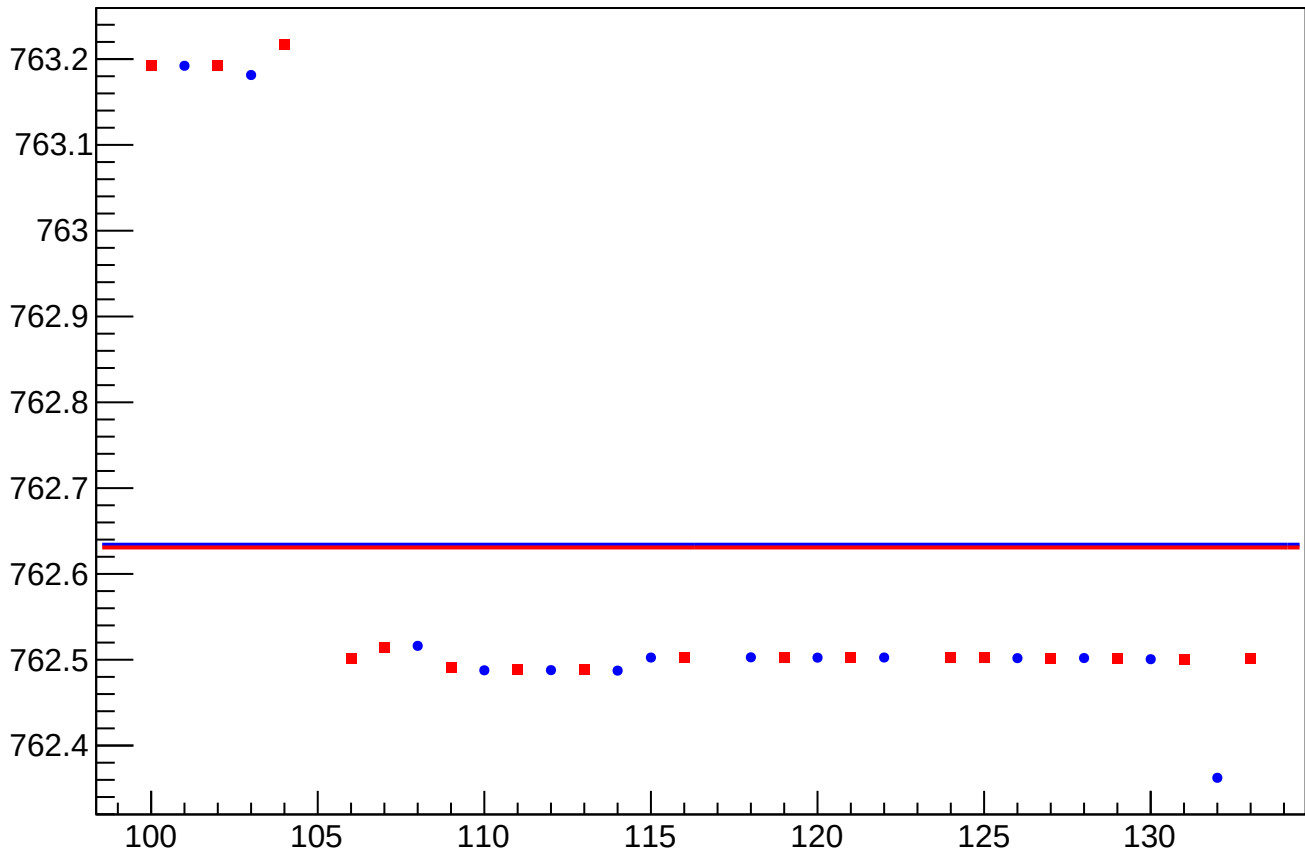
All: 924.968+/-0.000  $\chi^2/\text{NDF}$ : 37445474968

Right Out: 924.973+/-0.000  $\chi^2/\text{NDF}$ : 1211290088950012384892296364032.0/16

- 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: 762.634+/-0.000  $\chi^2/\text{NDF}$ : 50245029257686914386834311086080.0/13

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

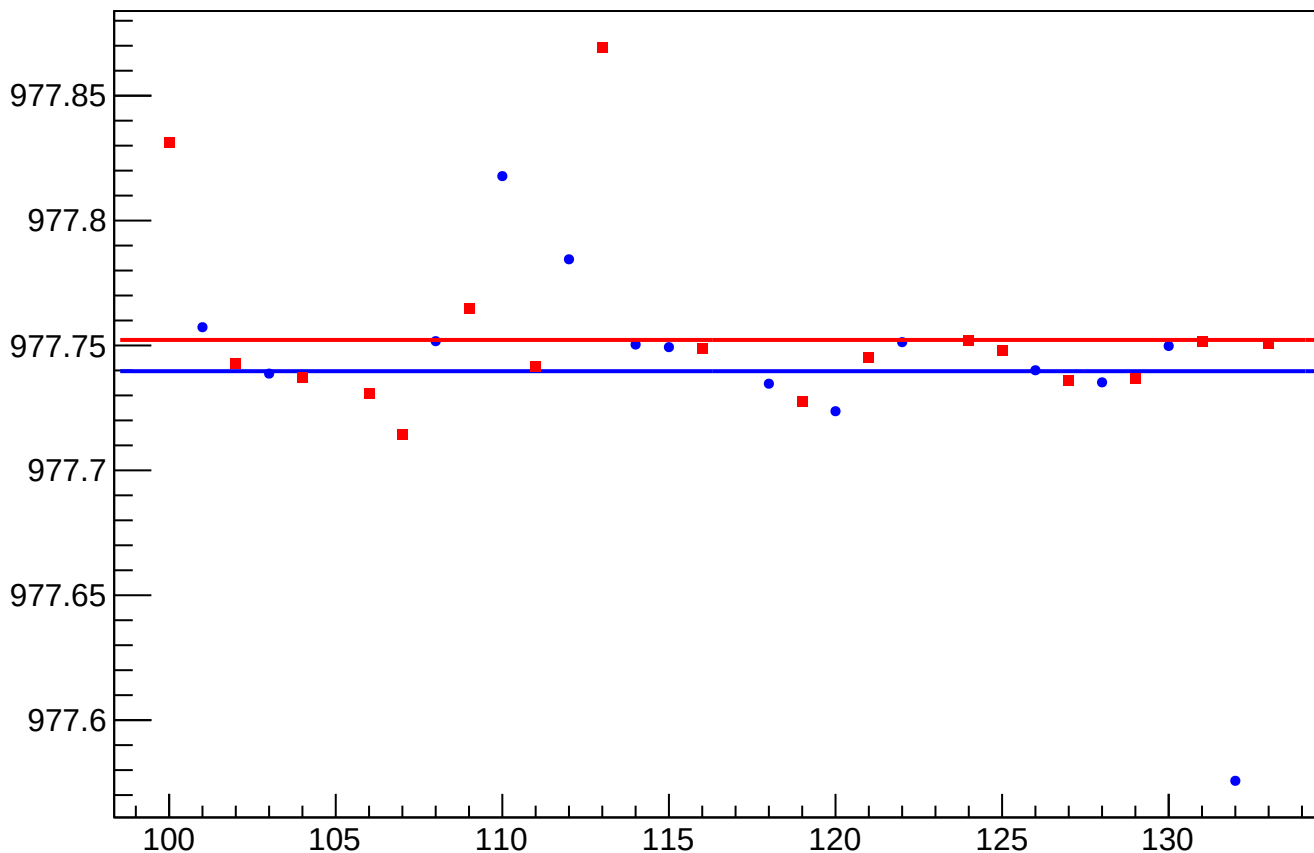
All: 762.632+/-0.000  $\chi^2/\text{NDF}$ : 102221144225

Right Out: 762.631+/-0.000  $\chi^2/\text{NDF}$ : 51972768578081347554082641936384.0/16

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# HacR\_Q3\_HP3458A\_IOUT\_mean vs Slug



Right In: 977.740+/-0.000  $\chi^2/\text{NDF}$ : 1540454209645945178683955216384.0/13

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

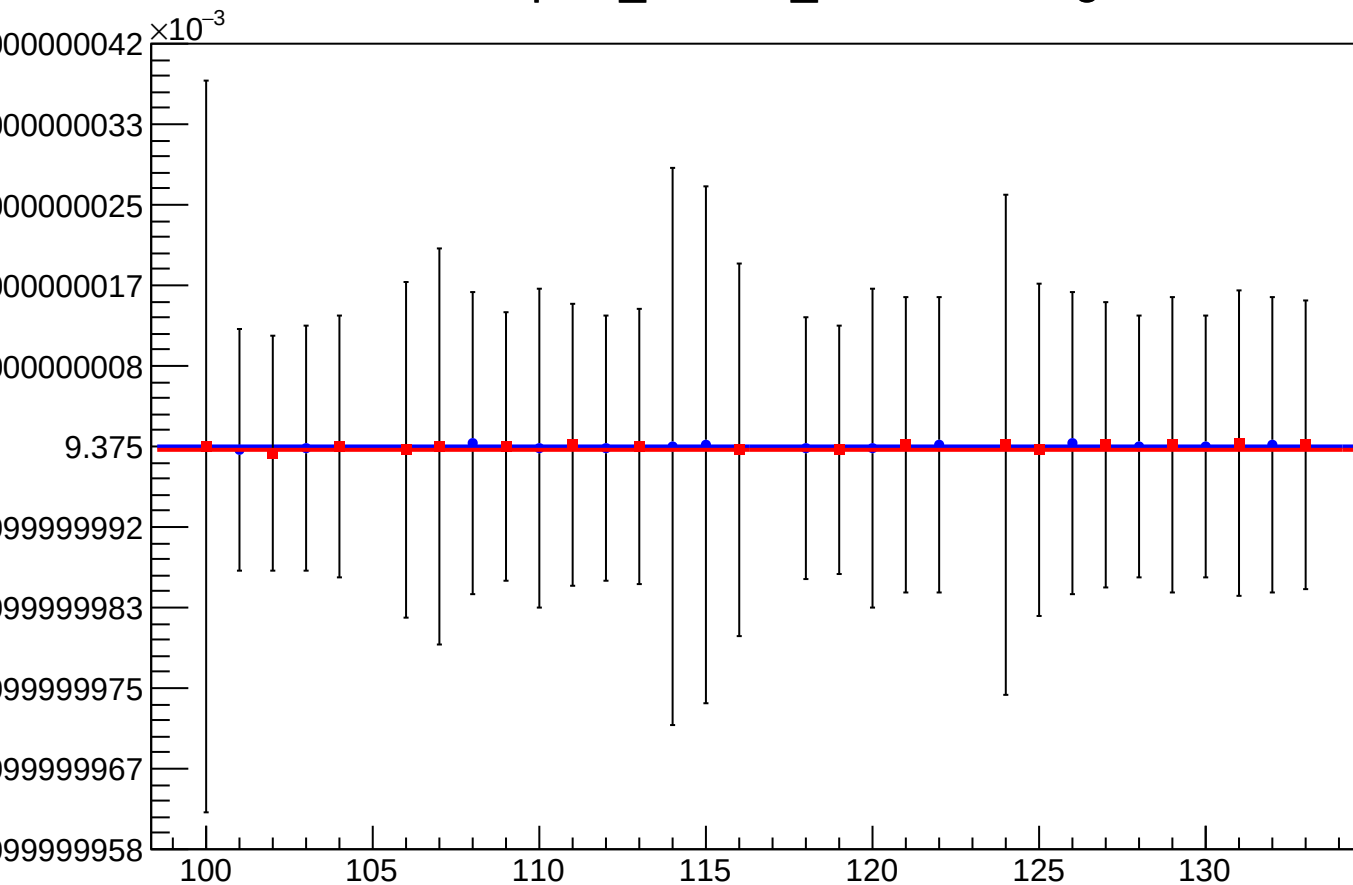
All: 977.746+/-0.000  $\chi^2/\text{NDF}$ : 246230326710

Right Out: 977.752+/-0.000  $\chi^2/\text{NDF}$ : 871147736462792689863224197120.0/16

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# hesDipole\_current\_mean vs Slug



Right In: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/16

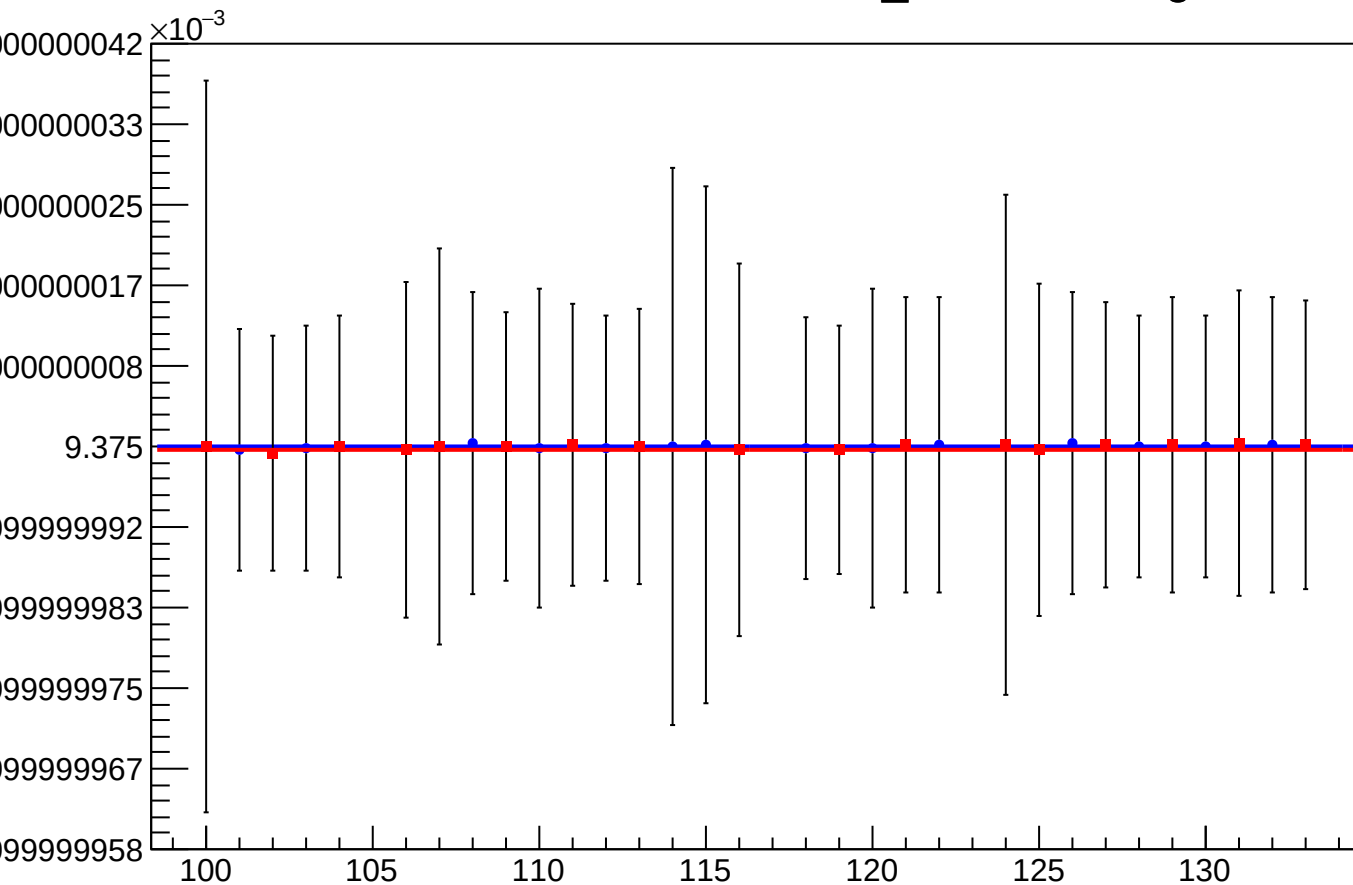
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# MSUPERBIGBITereadcalc\_mean vs Slug



Right In: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/16

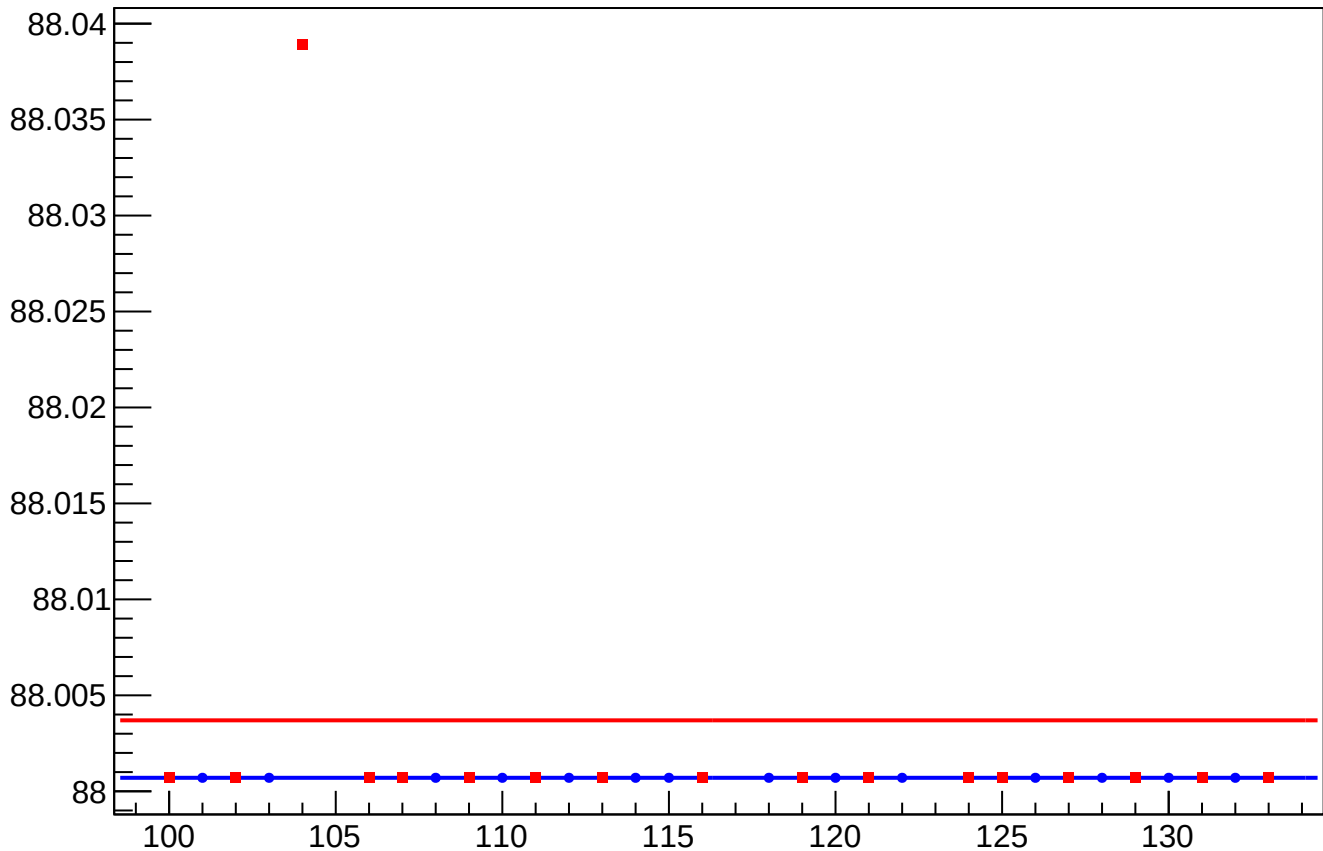
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# VWienAngle\_mean vs Slug



Right In: 88.001 $\pm$ 0.000  $\chi^2$ /NDF: 1232289.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 88.004 $\pm$ 0.000  $\chi^2$ /NDF: 72628052332312000449560444928.0/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

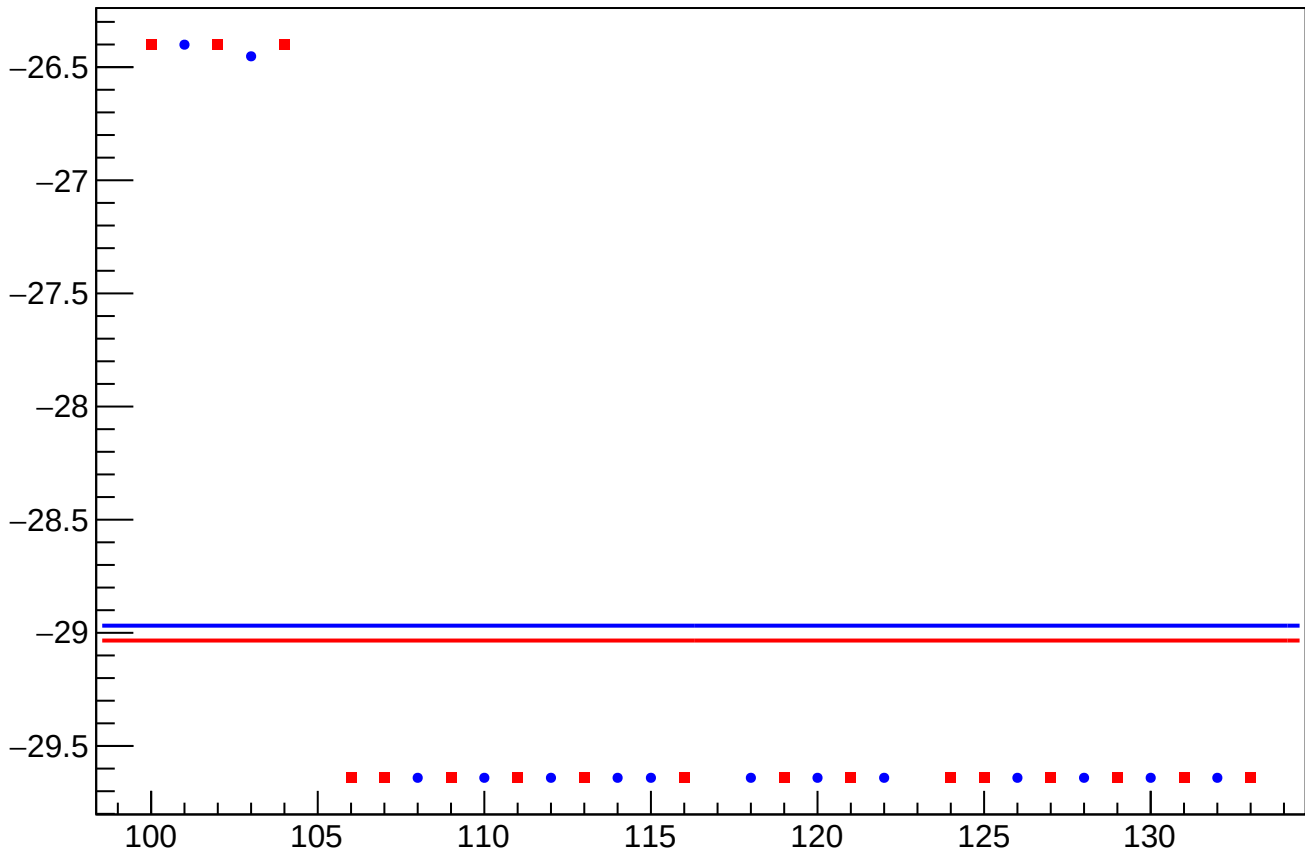
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 88.002 $\pm$ 0.000  $\chi^2$ /NDF: 7553340299957

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# HWienAngle\_mean vs Slug



Right In: -28.968+/-0.000  $\chi^2/\text{NDF}$ : 1046204440336158522599334391840768.0/13

+ 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

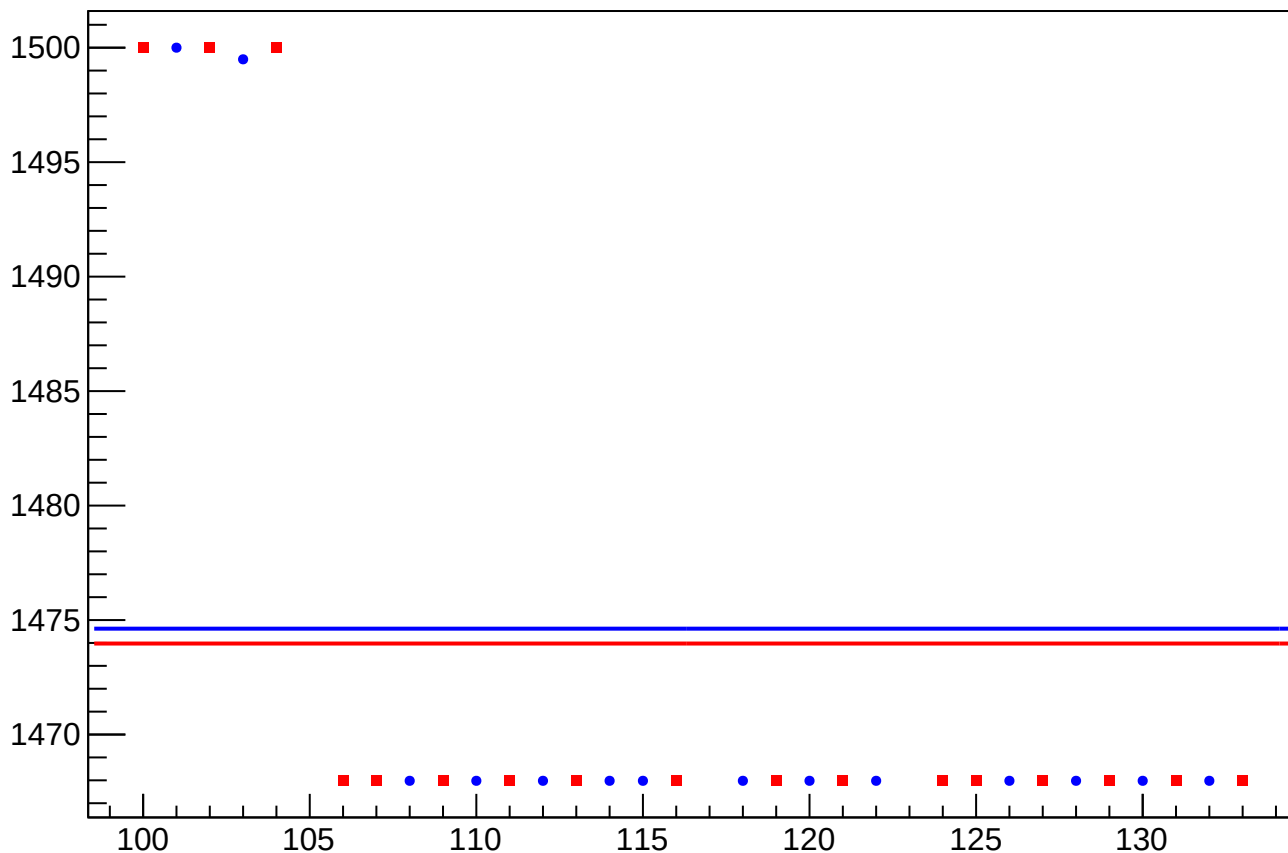
All: -29.003+/-0.000  $\chi^2/\text{NDF}$ : 214825315770

Right Out: -29.034+/-0.000  $\chi^2/\text{NDF}$ : 1100648220609600333941800978874368.0/16

- 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: 1474.624+/-0.000  $\chi^2/\text{NDF}$ : 102189750646524883507608581421662208.0/13

+ 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

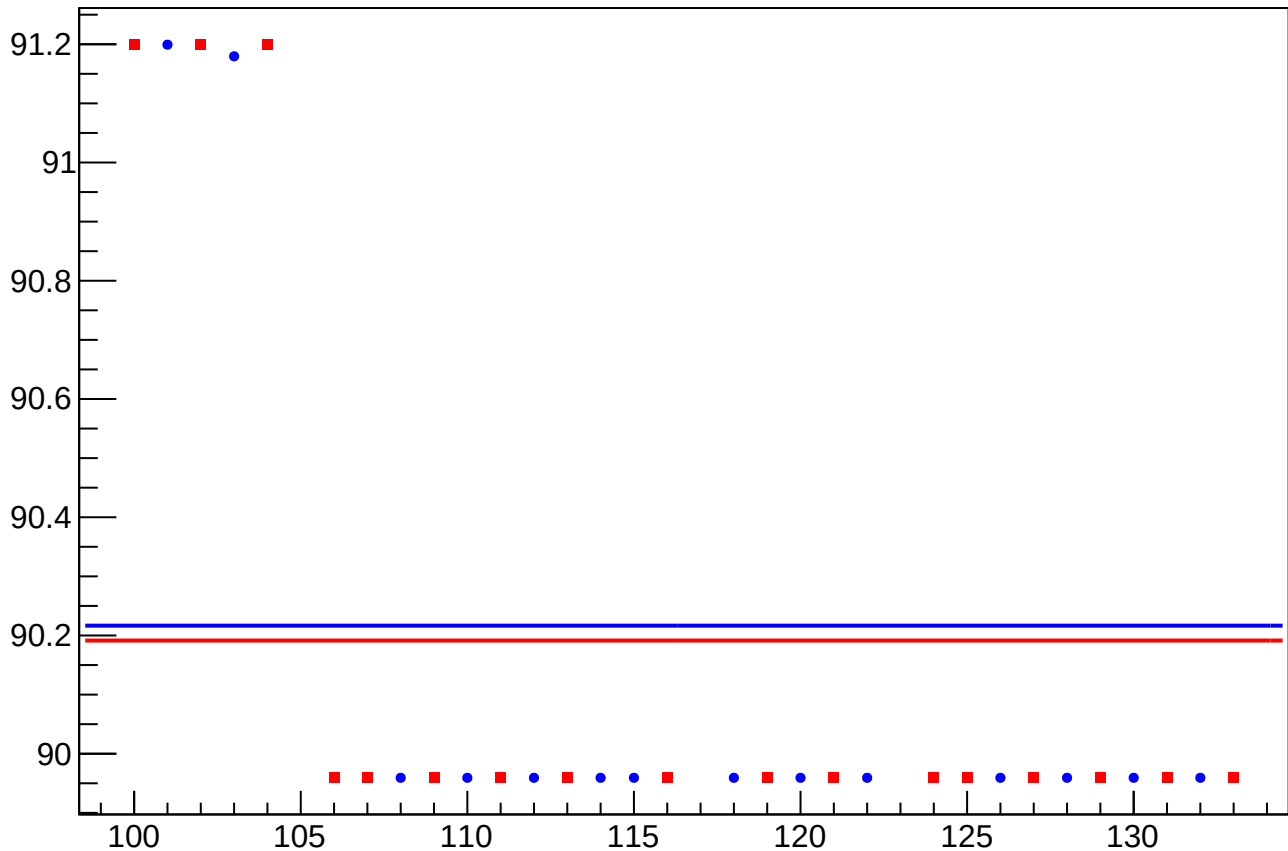
All: 1474.280+/-0.000  $\chi^2/\text{NDF}$ : 20983418349

Right Out: 1473.975+/-0.000  $\chi^2/\text{NDF}$ : 107507637013564870021539215701966848.0/16

- 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: 90.217+/-0.000  $\chi^2/\text{NDF}$ : 153239211577982285325640725954560.0/13

+ 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

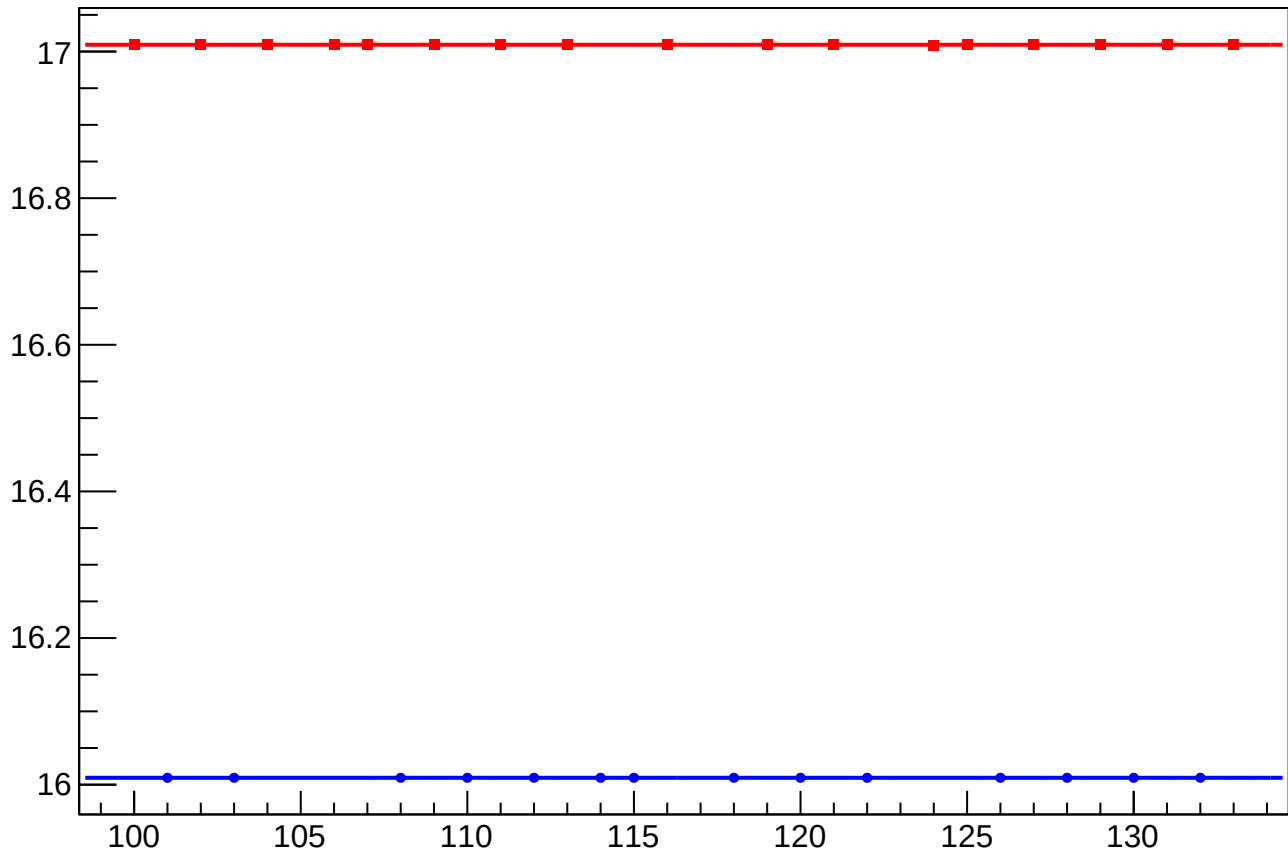
All: 90.203+/-0.000  $\chi^2/\text{NDF}$ : 3146580223369

Right Out: 90.191+/-0.000  $\chi^2/\text{NDF}$ : 161213677793920759943979008524288.0/16

- 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: 42598.5/13

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

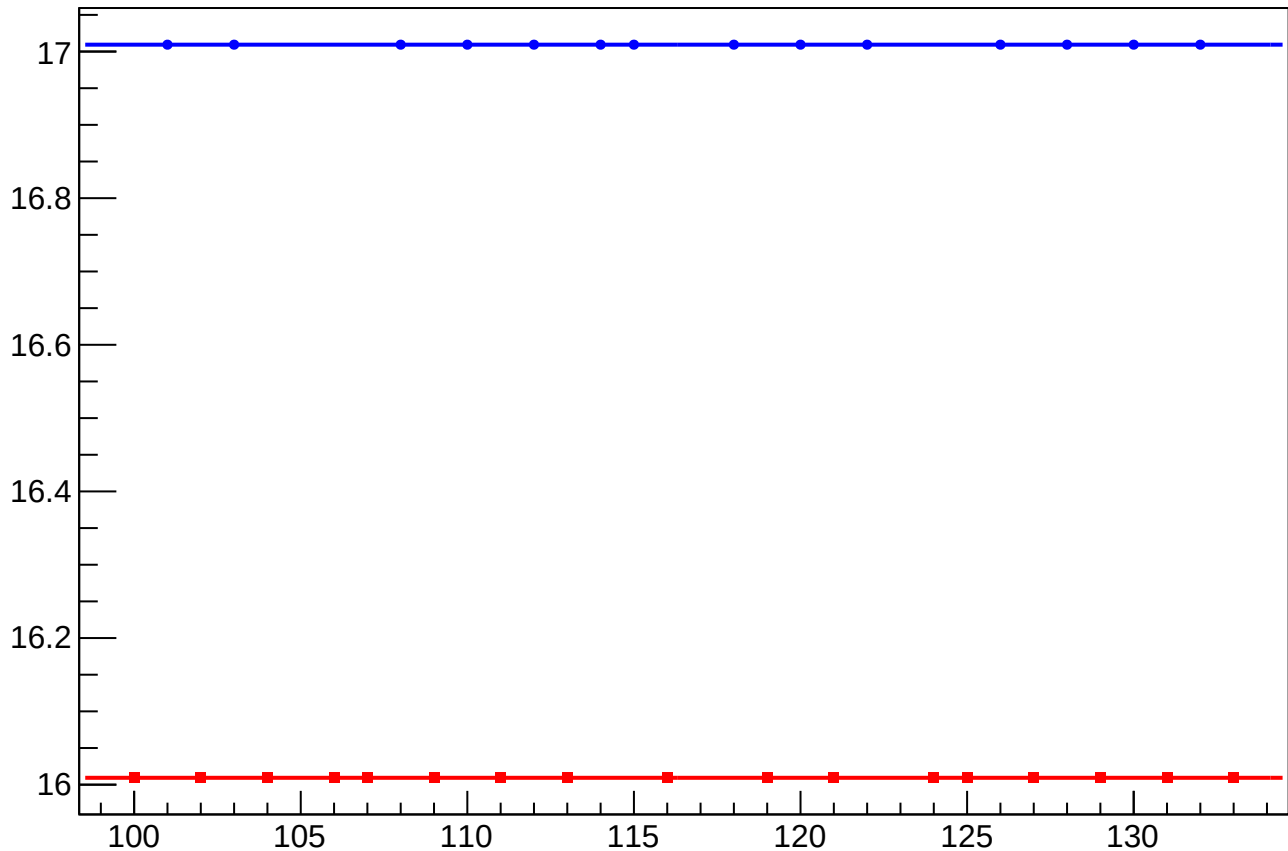
Right Out: 17.009 $\pm$ 0.000  $\chi^2$ /NDF: 13458989694503448169414656.0/16

All: 16.519 $\pm$ 0.000  $\chi^2$ /NDF: 3065885702070

- 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: 41525.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.009 $\pm$ 0.000  $\chi^2$ /NDF: 35479.8/16

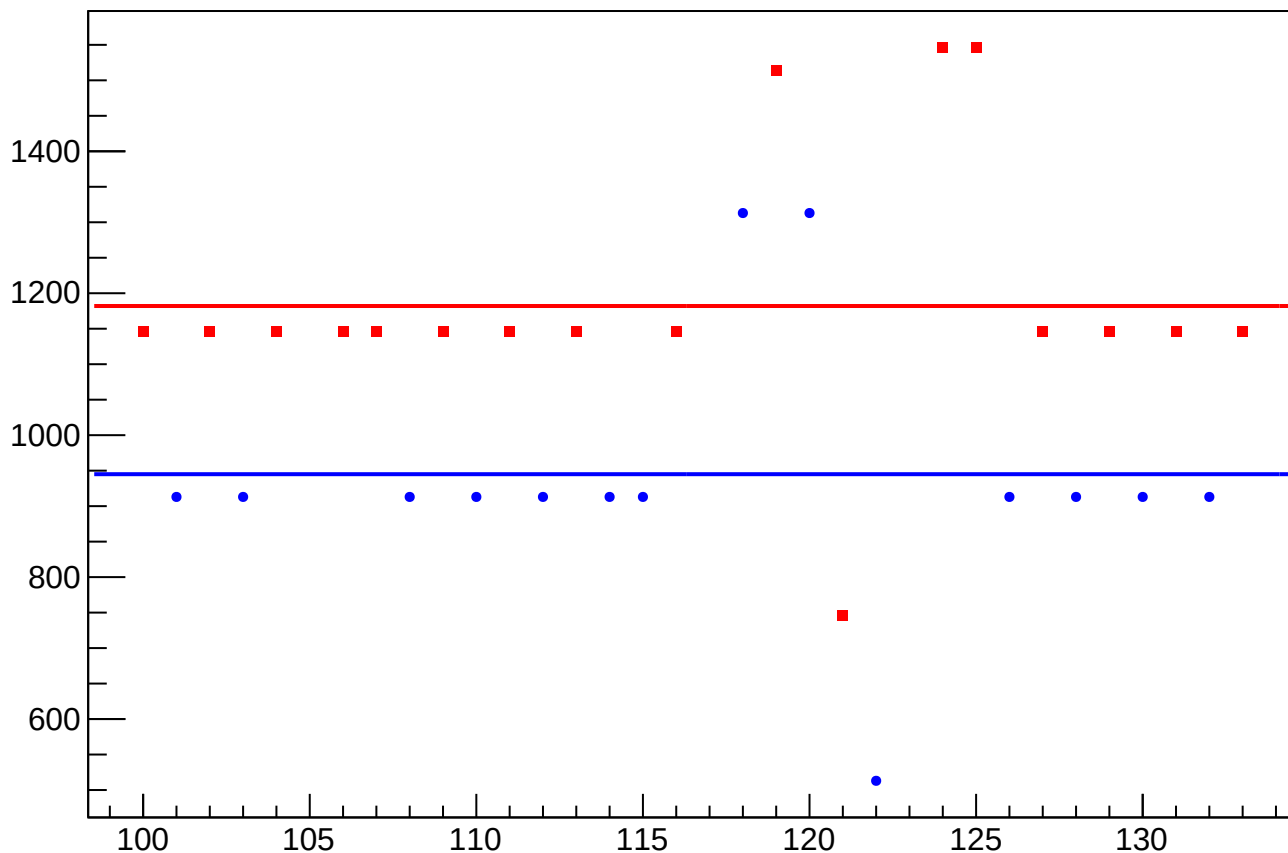
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.467 $\pm$ 0.000  $\chi^2$ /NDF: 313483768804

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# RTPAPOSUCNT\_mean vs Slug



Right In: 945.022+/-0.000  $\chi^2/\text{NDF}$ : 20973645480233350170826199686038159360.0/13

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

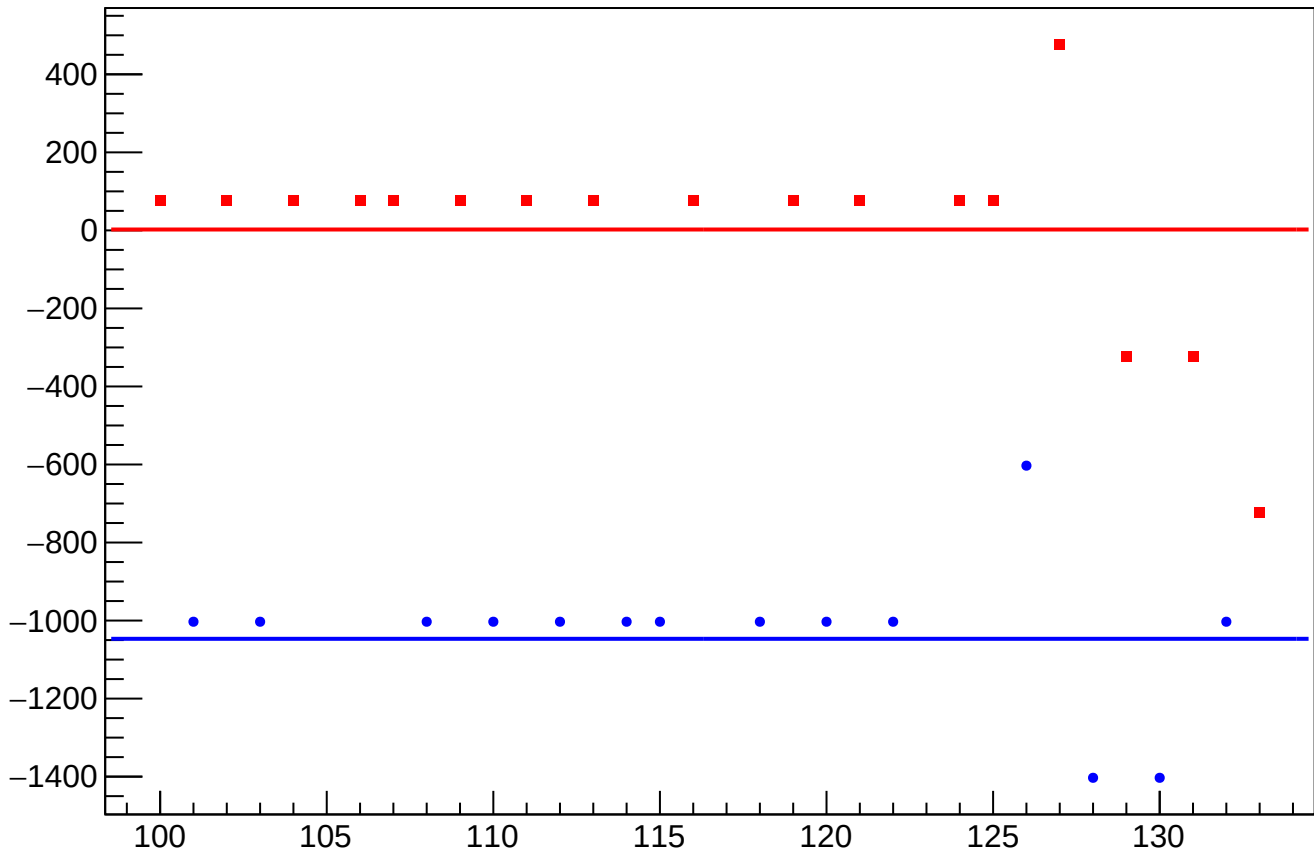
All: 1070.526+/-0.000  $\chi^2/\text{NDF}$ : 61229586365

Right Out: 1182.004+/-0.000  $\chi^2/\text{NDF}$ : 22053682832515577434777216139671896064.0/16

- 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: -1046.780+/-0.000  $\chi^2/\text{NDF}$ : 22666083432491292806543659893818130432.0/13

+ 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

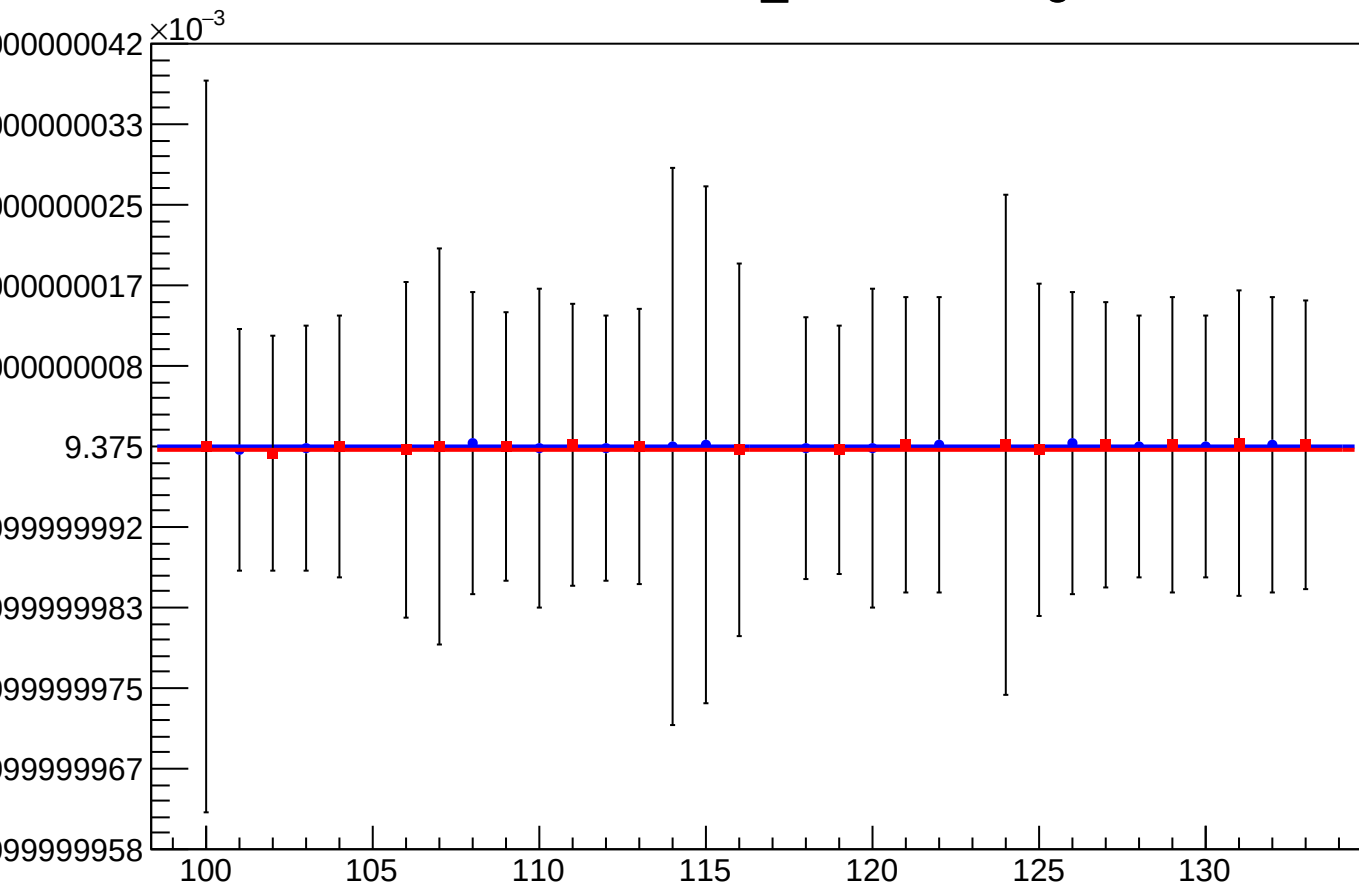
All: -491.206+/-0.000  $\chi^2/\text{NDF}$ : 42505202596

Right Out: 2.279+/-0.000  $\chi^2/\text{NDF}$ : 45694139294950760497228760989638328320.0/16

- 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: 0.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/16

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

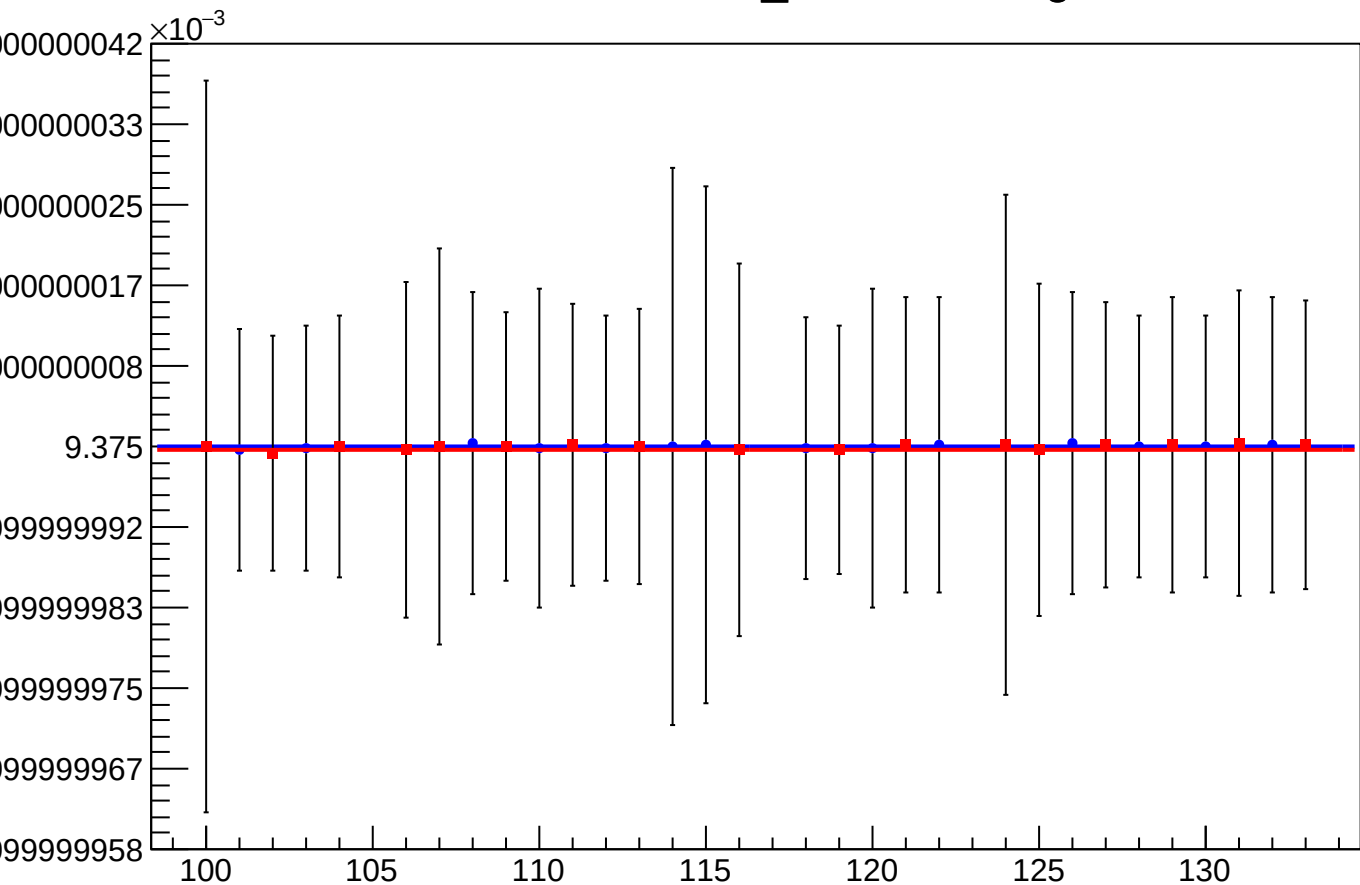
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/30

- 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: 0.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/16

Left In: 0.000 $\pm$ 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: 0.0/30

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0